MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

Number of files:	1
Number of top significant motifs:	50
Number of best matches:	50
Similarity cutoff >=	0.5
Matching motif database:	None
Motif tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
U20230326-stremeR.txt	365	1

RESULTS

Top 50 Significant Motifs - Global Matching (Highest to Lowest)

There is no global matching for 1 motif file.

Significant Motifs - Global and Local Matching (Highest to Lowest)

Dataset #: 1 Motif ID: 318 Motif name: Motif 318

Original motif Consensus sequence: CAGCCCCG

Reverse complement motif Consensus sequence: CGGGGCTG

Best Matches for Significant Motif ID 318 (Highest to Lowest)

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.00509921

Alignment:

```
ACCGGGGCTGCA
--CGGGGCTG--
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0248687

Alignment:

```
GCCRGCCCTGCYGGCC
--CAGCCCCG------
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

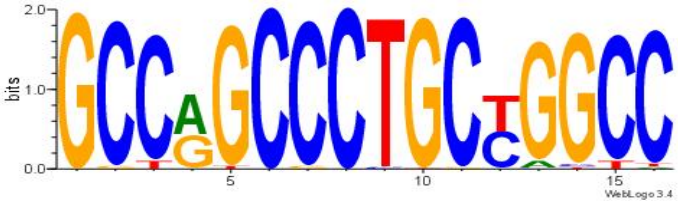

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

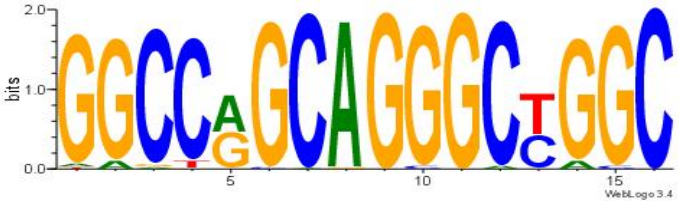

Dataset #: 1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.026456

Alignment:

```
CGAGCCCTGCCCCGCGG
------CAGCCCCG---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

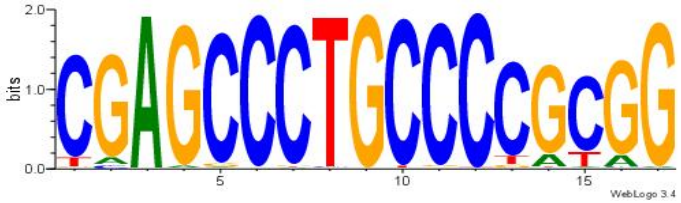

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

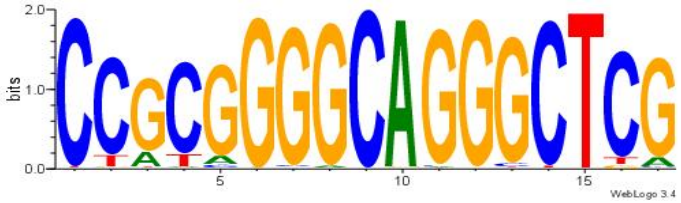

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8

Similarity score: 0.0266885

Alignment:
GGGGGCTGACCCCCCCACC
----------CGGGGCTG

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

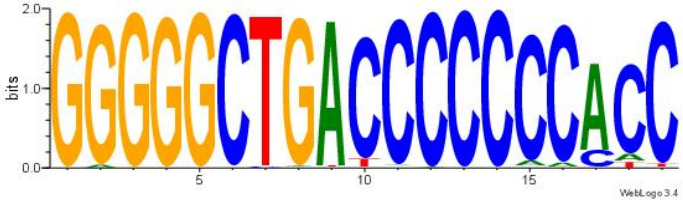

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

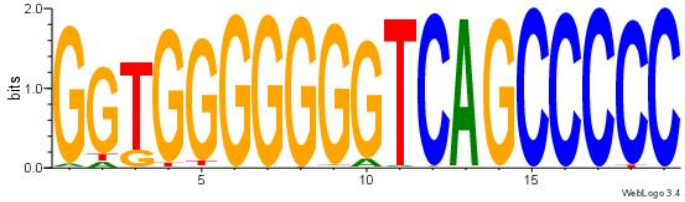

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0291045

Alignment:
CTTTCTGGGCTGGCCAAGG
----CGGGGCTG-------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

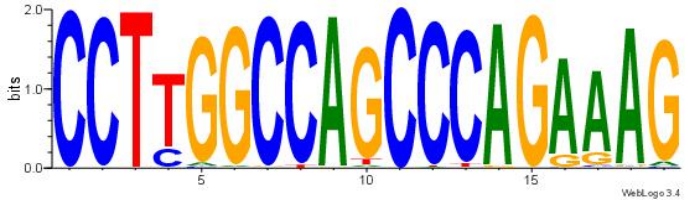

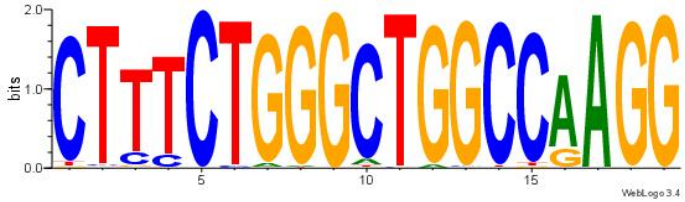

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0371097

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-----------CAGCCCCG-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

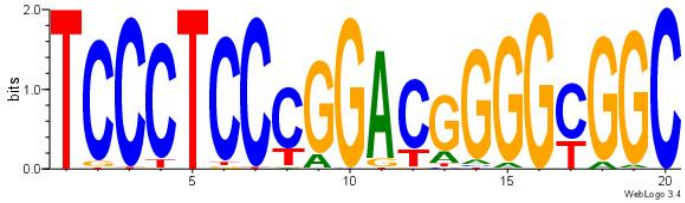

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

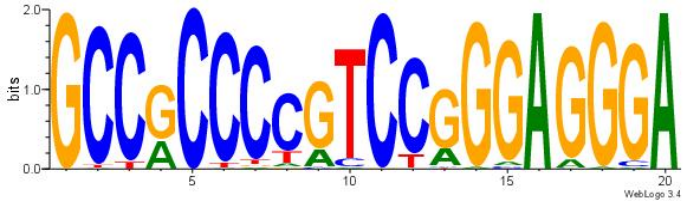

Dataset #:	1

Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0372385

Alignment:

```
CCGCACTCGGAGCRG
CGGGGCTG-------
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

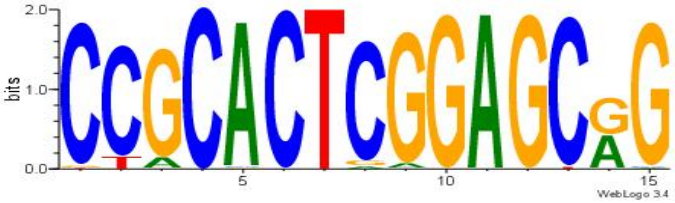

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

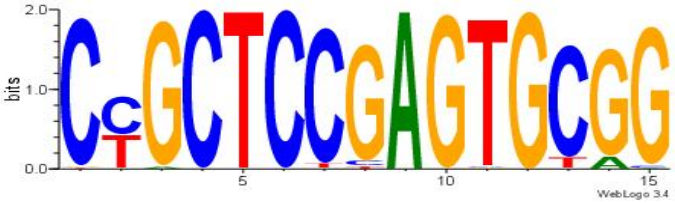

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	13
Number of overlap:	8

Similarity score: 0.0485096

Alignment:
CGGCGCTGMGCTCGATTTCT
CGGGGCTG----------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

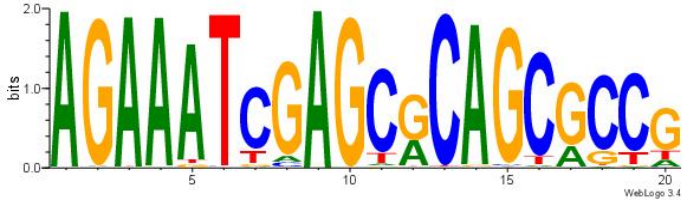

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

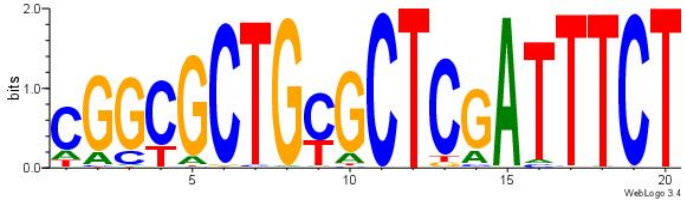

Dataset #: 1
Motif ID: 42
Motif name: Motif 42
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0500758

Alignment:
CTCTGCCCGGCCGC
--CAGCCCCG----

Original motif Consensus sequence: CTCTGCCCGGCCGC

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

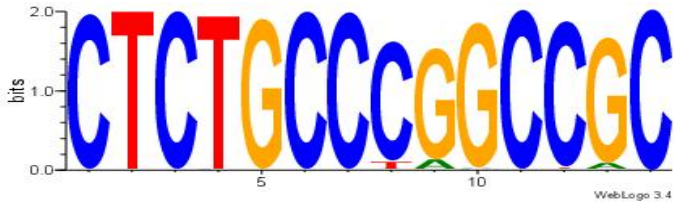

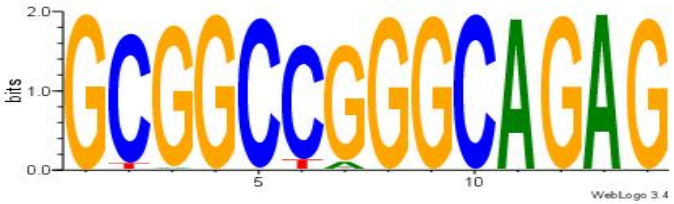

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0520849

Alignment:

```
AGGAACAGCTCCRGTCTAC
-----CAGCCCCG------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

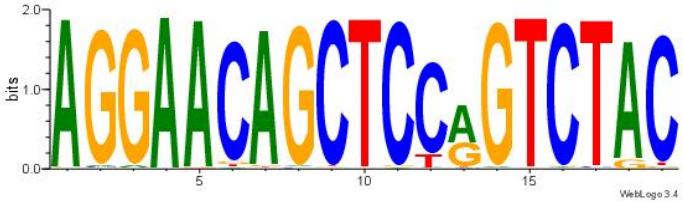

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

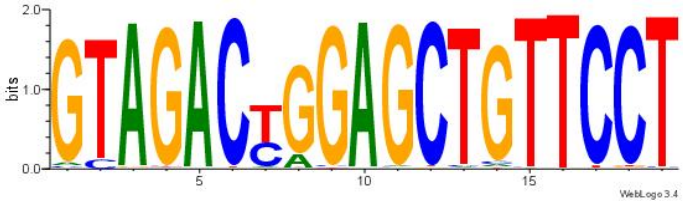

Dataset #: 1

Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0543988

Alignment:

```
GCGCACGGCGCGG
CGGGGCTG-----
```

Original motif Consensus sequence: GCGCACGGCGCGG

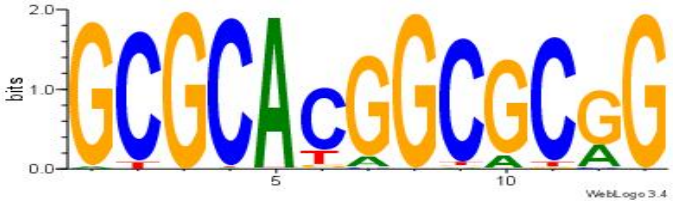

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

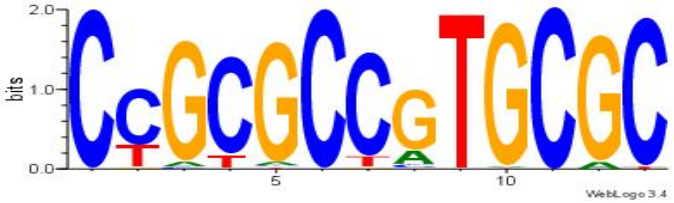

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0552667

Alignment:
CGCCCATCGTCTGGGATGT
----------CGGGGCTG-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

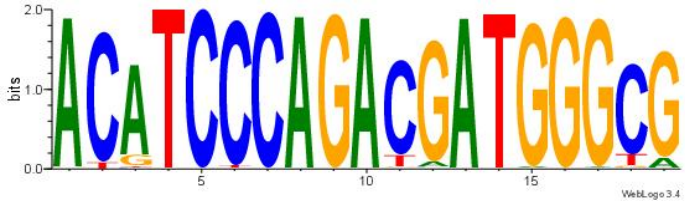

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

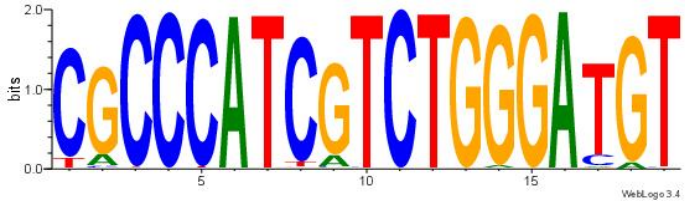

Dataset #:	1
Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.055271

Alignment:
CCCAGCTCTGCC
--CAGCCCCG--

Original motif Consensus sequence: CCCAGCTCTGCC

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

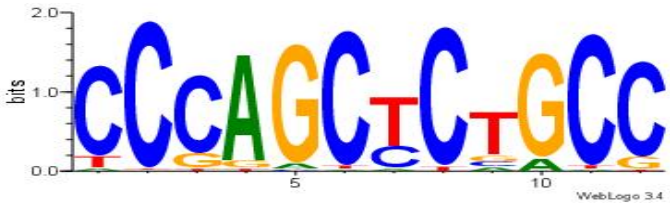

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0559925

Alignment:

```
CCCCGGGCAGTGAGGG
--CGGGGCTG------
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

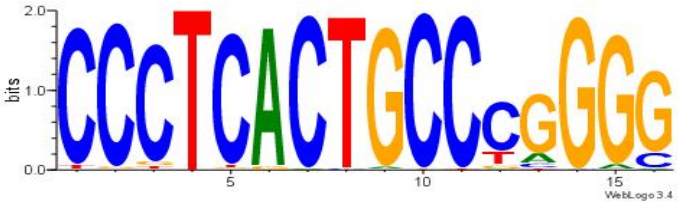

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

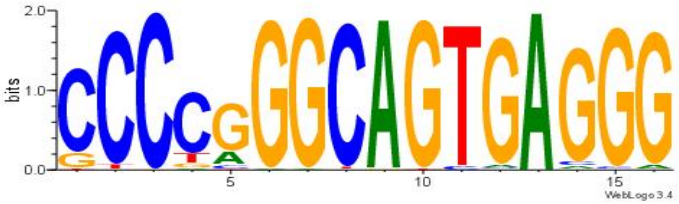

Dataset #: 1

Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0575266

Alignment:

```
CKCGTCSGGGAGG
-----CGGGGCTG
```

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

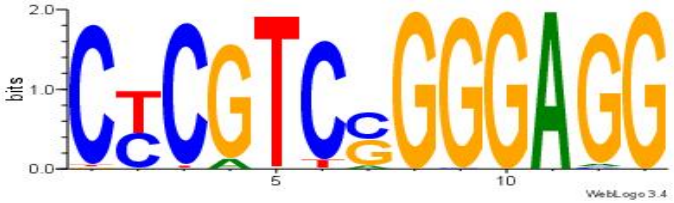

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0576931

Alignment:
GACTGGCAGGCAGCTCCACC
----------CAGCCCCG--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

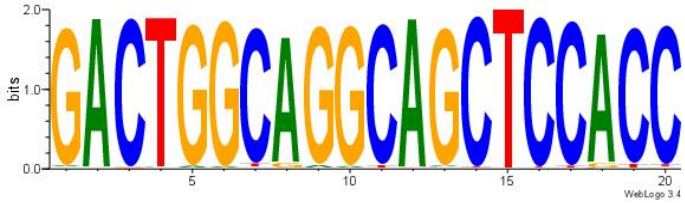

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

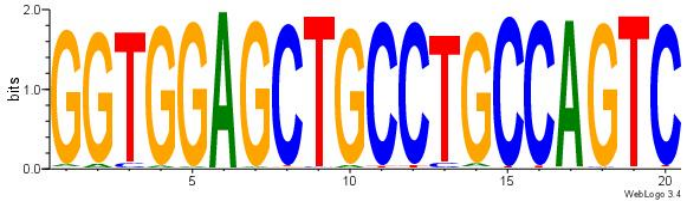

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0594936

Alignment:
GCTGGCCCGCAAGCGCCGCG
-CAGCCCCG----------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

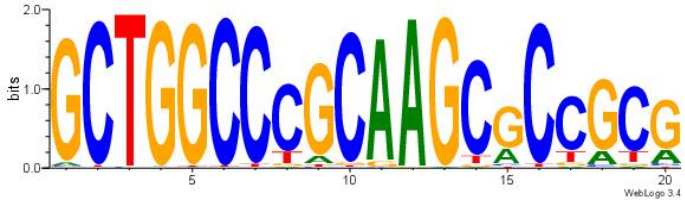

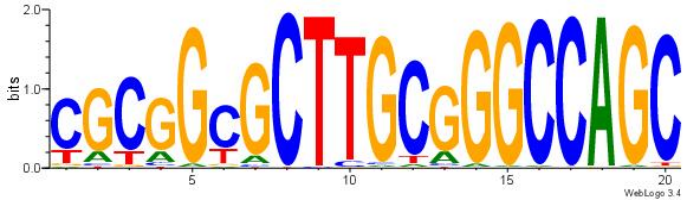

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8
Similarity score:	0.0597138

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
------------CGGGGCTG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

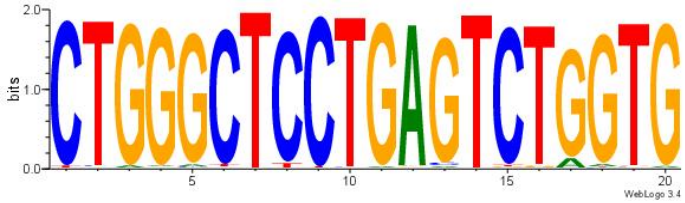

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

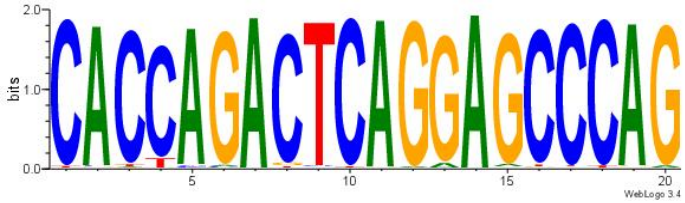

Dataset #:	1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0614353

Alignment:

```
TGGGGCTCCAGATG
CGGGGCTG------
```

Original motif Consensus sequence: CATCTGGAGCCCCA

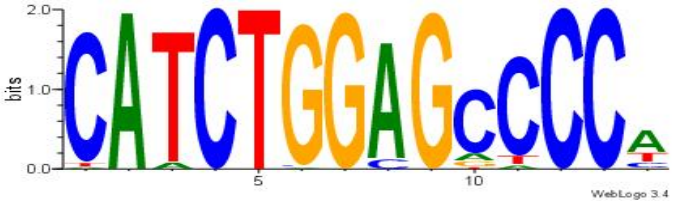

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

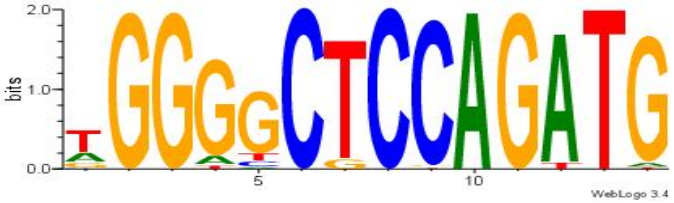

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.061558

Alignment:
GACCTGCAGCCCGCCATG
----CAGCCCCG------

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

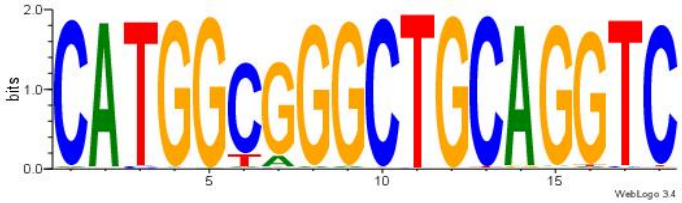

Reverse complement motif Consensus sequence:
GACCTGCAGCCCGCCATG

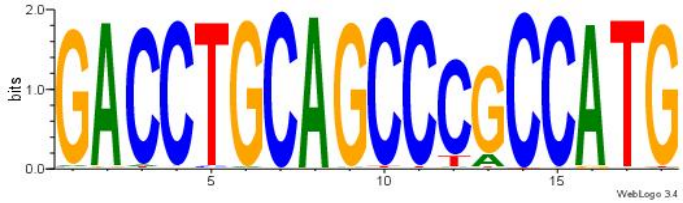

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0616293

Alignment:
GGGTGCAGGMGGGCTGAGT
--------CGGGGCTG---

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

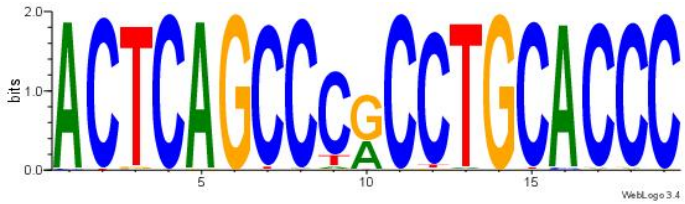

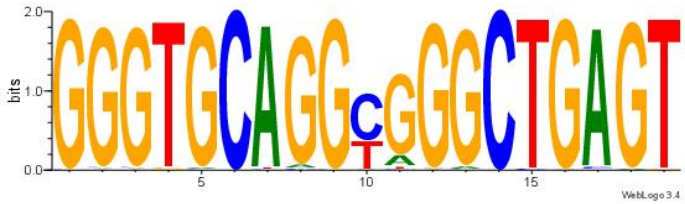

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0618217

Alignment:

```
AGGCGGCTGGGAGG
-----CGGGGCTG-
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

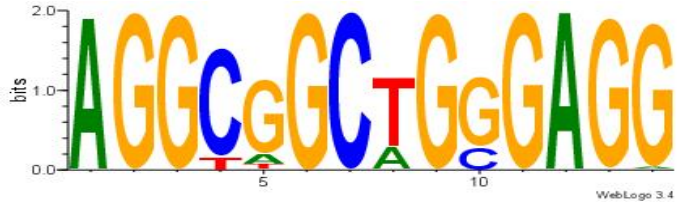

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	5

Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0623032

Alignment:

```
CCTCRGCCTCC
---CAGCCCCG
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0635266

Alignment:
CAGGCGGCTGGGAG
----CGGGGCTG--

Original motif Consensus sequence: CAGGCGGCTGGGAG

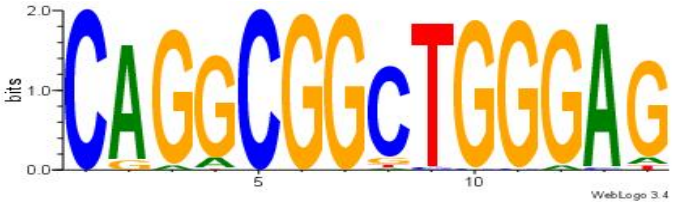

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

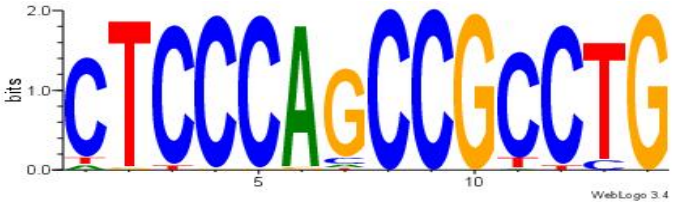

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0641858

Alignment:
AGGAGCGCCTCTKCCCGGC
----------CAGCCCCG-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

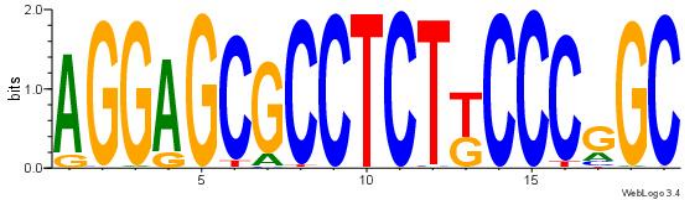

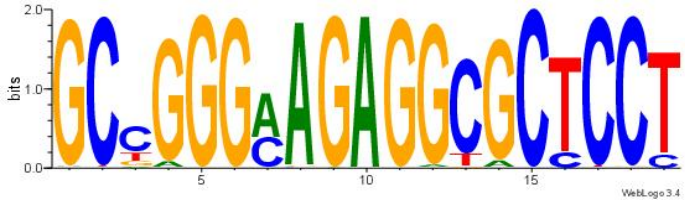

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0643275

Alignment:

```
GCTTAGCACCYGGGCCAGC
-CGGGGCTG----------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

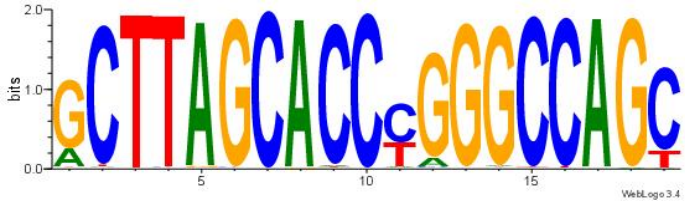

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

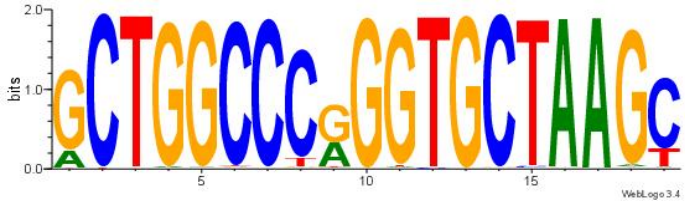

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0654748

Alignment:

```
AATCAACCCTGGYRATCAAT
---CAGCCCCG---------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

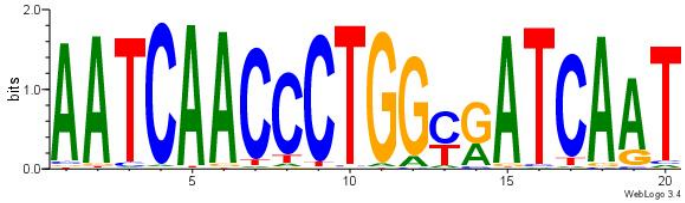

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

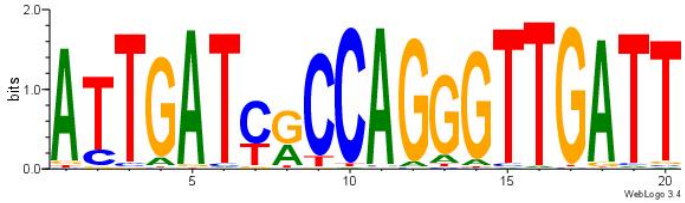

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8

Similarity score: 0.0659941

Alignment:
GCGCTCKTCGGGGAGGCTCG
--------CGGGGCTG----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

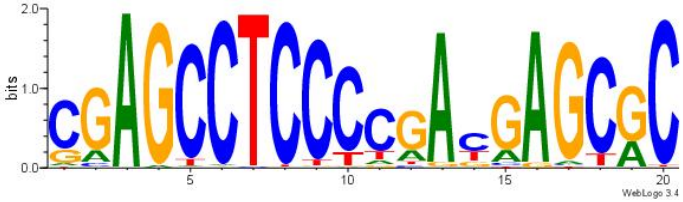

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

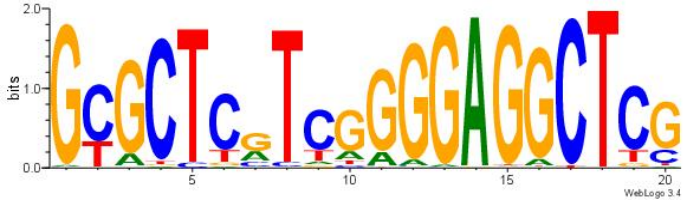

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0673212

Alignment:
GCGGCTGGCCGGGCG
----CGGGGCTG---

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

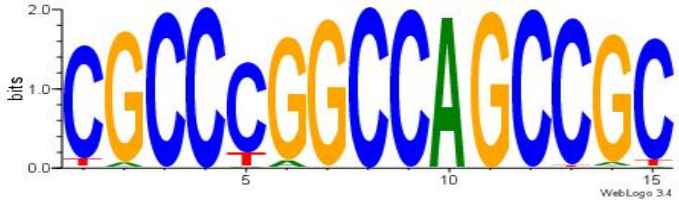

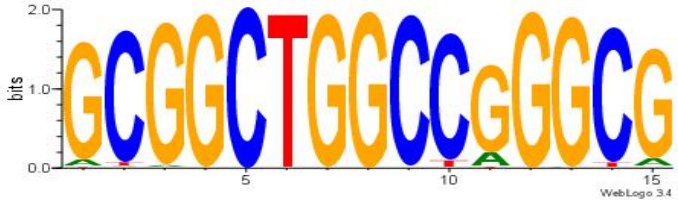

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0682715

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------CGGGGCTG------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

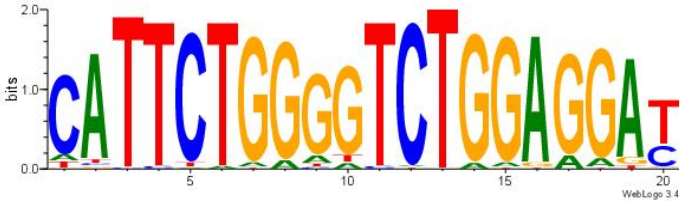

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

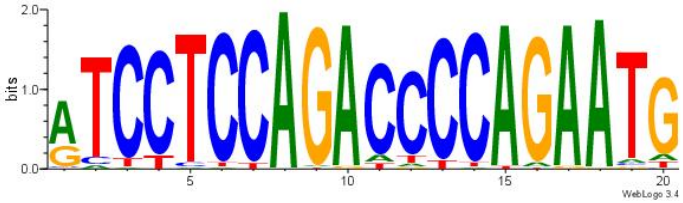

Dataset #: 1

Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0683465

Alignment:

```
ATGGGCTGACAG
CGGGGCTG----
```

Original motif Consensus sequence: CTGTCAGCCCAT

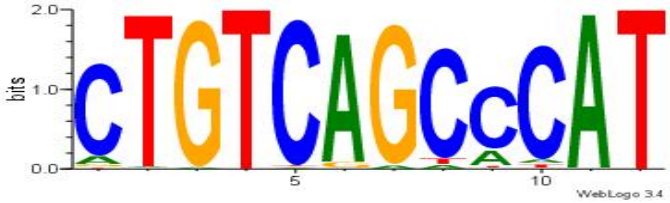

Reverse complement motif Consensus sequence: ATGGGCTGACAG

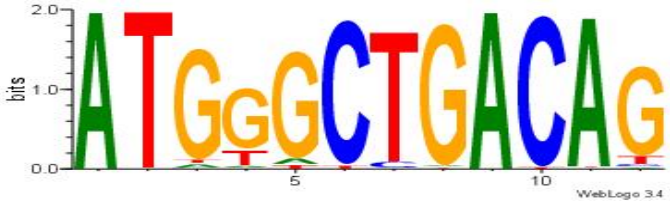

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0685625

Alignment:
AGGASCSTCYSWGCCMGGY
----------CAGCCCCG-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

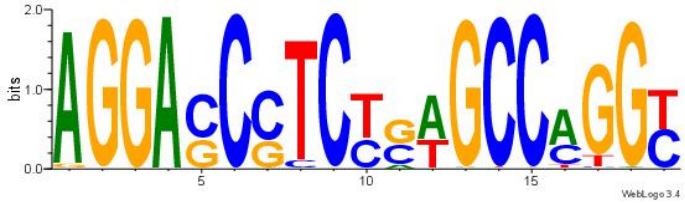

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

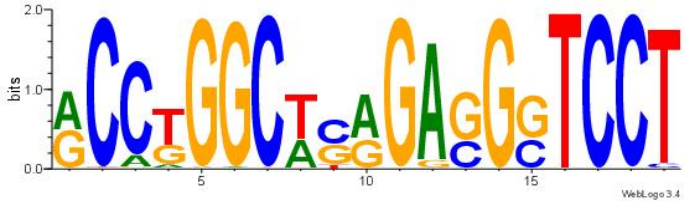

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0689201

Alignment:
CCCCWCCCCCA
---CAGCCCCG

Original motif Consensus sequence: CCCCWCCCCCA

Reverse complement motif Consensus sequence: TGGGGGWGGGG

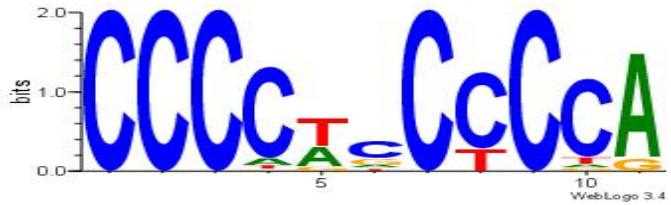

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0708277

Alignment:

```
AGACCAGCCTGGCCAAC
----CAGCCCCG-----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

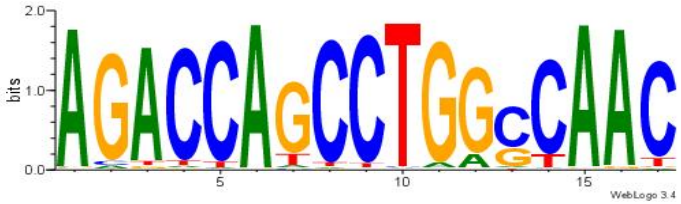

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

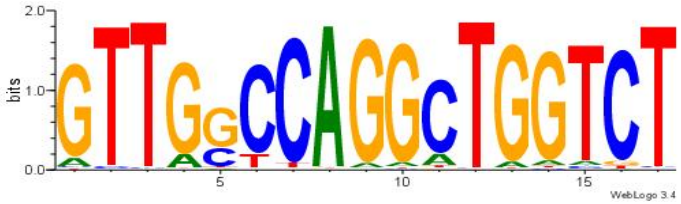

Dataset #: 1

Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0716617

Alignment:

```
CGCCGCCGCCGC
----CGGGGCTG
```

Original motif Consensus sequence: CGCCGCCGCCGC

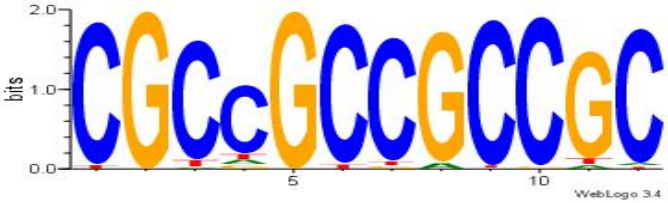

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

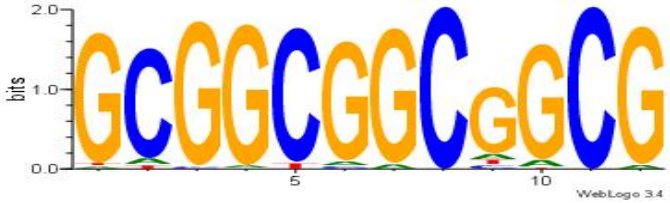

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0724381

Alignment:
KCCGGGCCTTAGCTGCCTTC
--CGGGGCTG----------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

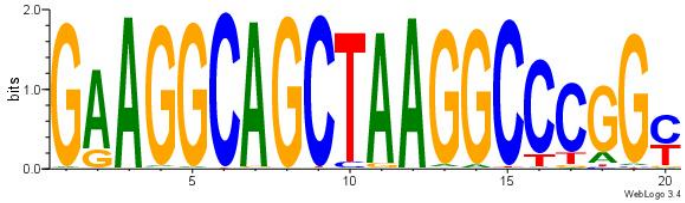

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

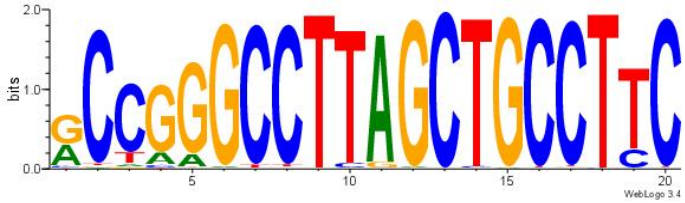

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.072827

Alignment:
AGGAGRCMCTCTGCCTGGC
-CAGCCCCG----------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

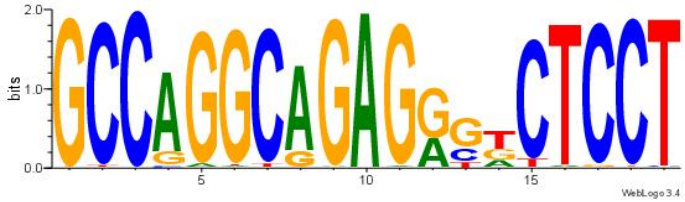

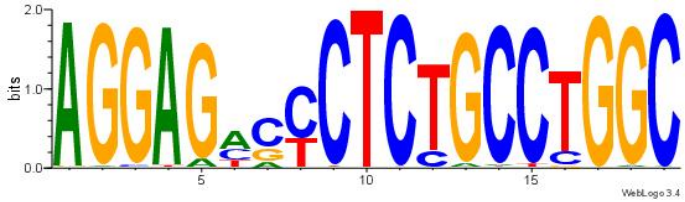

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0731616

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---------CAGCCCCG---
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

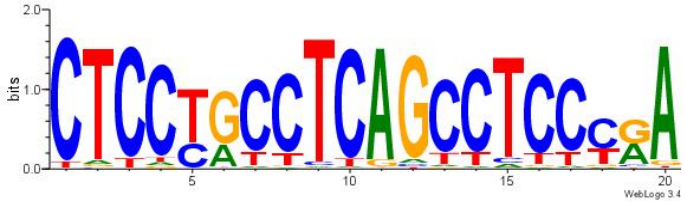

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

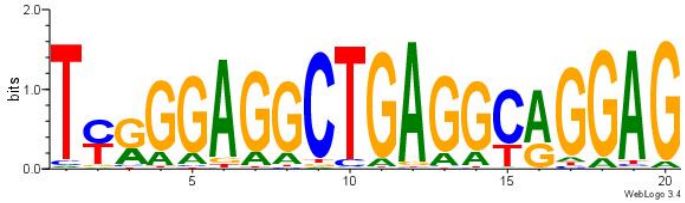

Dataset #:	1

Motif ID:	156
Motif name:	Motif 156
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0751971

Alignment:

```
GTCTGGGAAGTG
--CGGGGCTG--
```

Original motif Consensus sequence: CACTTCCCAGAC

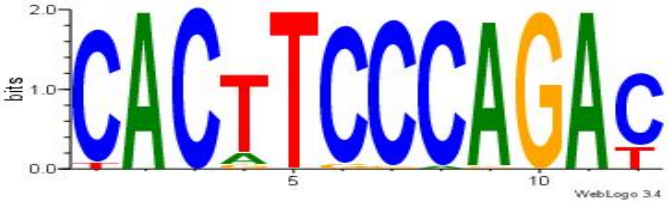

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

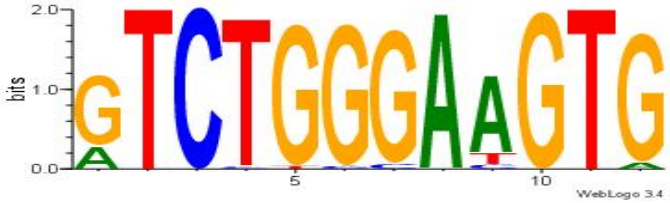

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0755387

Alignment:
ACCCYGTCTGGGAGGTG
-------CGGGGCTG--

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

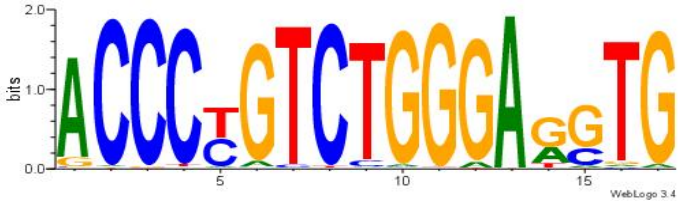

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

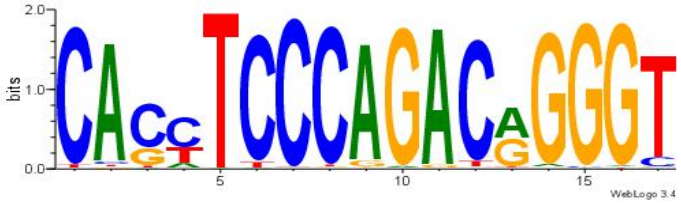

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0755788

Alignment:
AAGCTCGAACTGGGTGGAGC
---------CGGGGCTG---

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

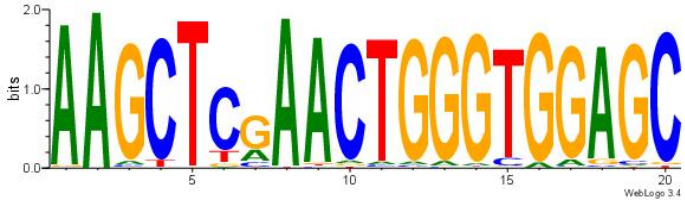

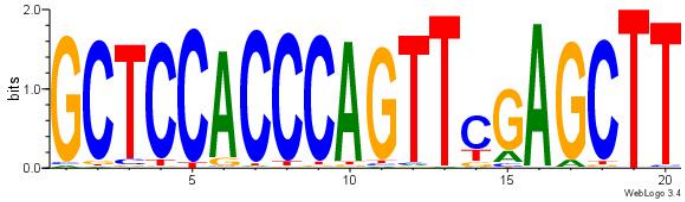

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0756196

Alignment:

```
GCACAGGAGCGG
----CGGGGCTG
```

Original motif Consensus sequence: CCGCTCCTGTGC

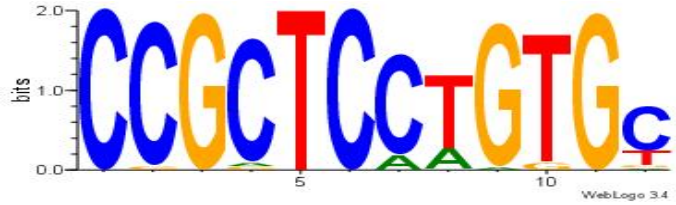

Reverse complement motif Consensus sequence: GCACAGGAGCGG

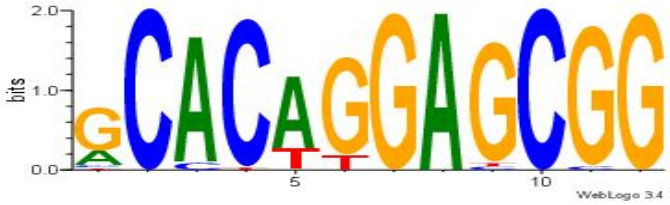

Dataset #:	1
Motif ID:	177

Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0766252

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
----------CGGGGCTG--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

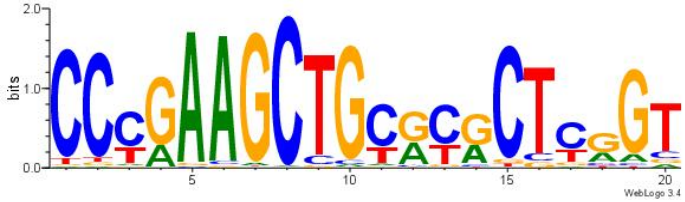

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

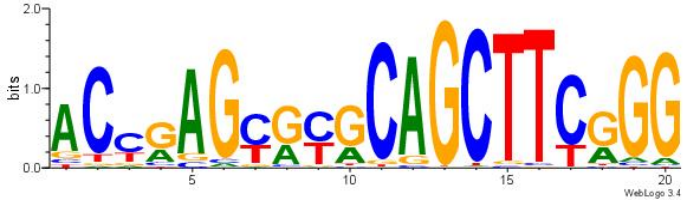

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0774587

Alignment:
CCCACGCCCACCCGGAACT
----CAGCCCCG-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

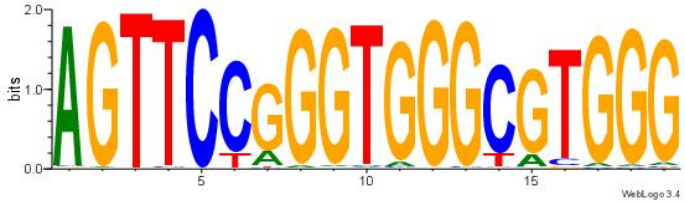

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

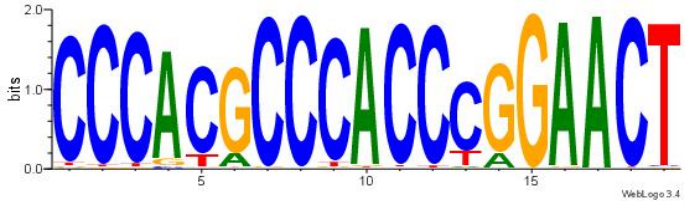

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0776682

Alignment:
AGGAGCCCCTCHGCCCR
--CAGCCCCG-------

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

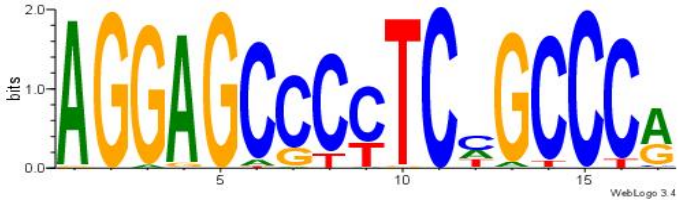

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0777228

Alignment:

```
RRCCGCTCCATG
--CAGCCCCG--
```

Original motif Consensus sequence: CATGGAGCGGKK

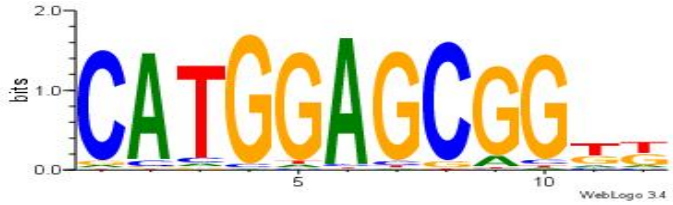

Reverse complement motif Consensus sequence: RRCCGCTCCATG

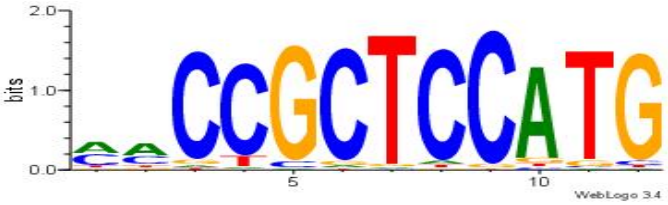

Dataset #:	1
Motif ID:	197

Motif name:	Motif 197
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.077766

Alignment:

```
GCTGGCCGGGCG
-CGGGGCTG---
```

Original motif Consensus sequence: CGCCCGGCCAGC

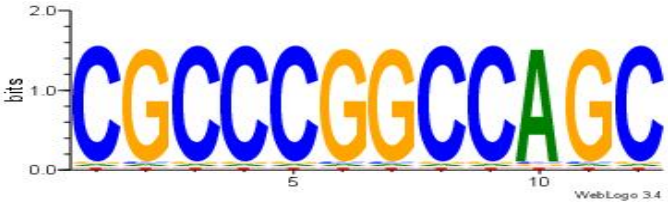

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

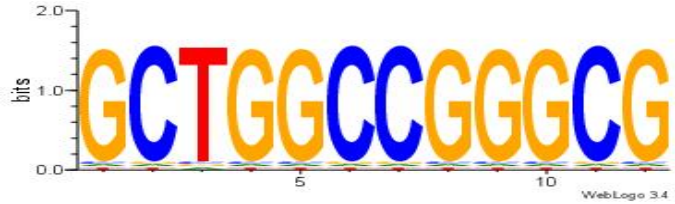

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0781026

Alignment:
AAGCTGAGGGAGCCGGCTCC
-----CGGGGCTG-------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

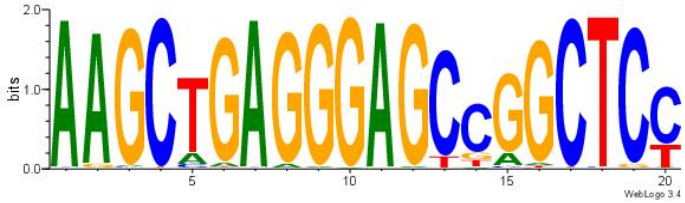

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

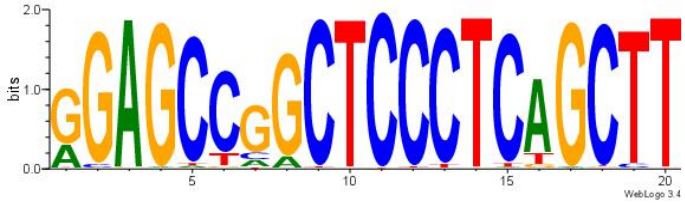

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0782702

Alignment:
GGCAATGCCTCGCCCTGCTT
---CAGCCCCG---------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

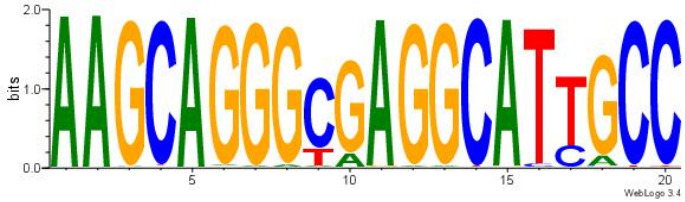

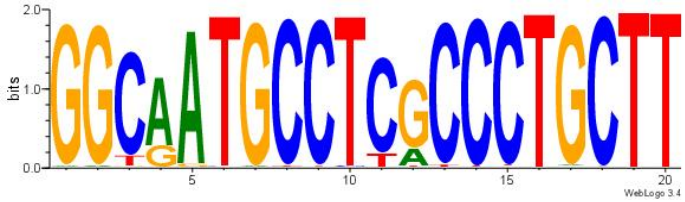

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0785007

Alignment:

```
TCAATGGTGCCCAG
CAGCCCCG------
```

Original motif Consensus sequence: CTGGGCACCATTGA

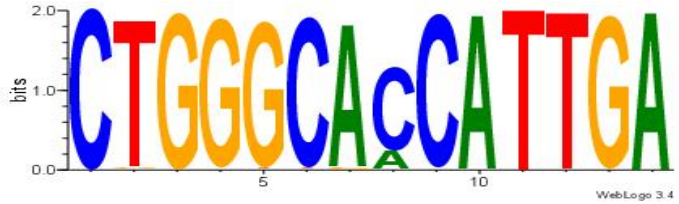

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

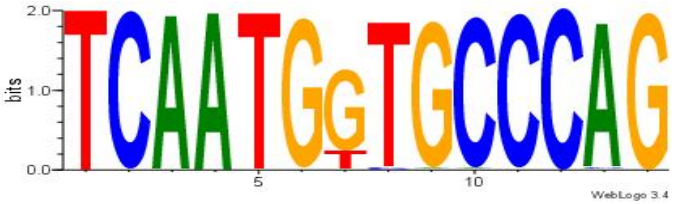

Dataset #: 1 Motif ID: 352 Motif name: Motif 352

Original motif Consensus sequence: CATCTTCA

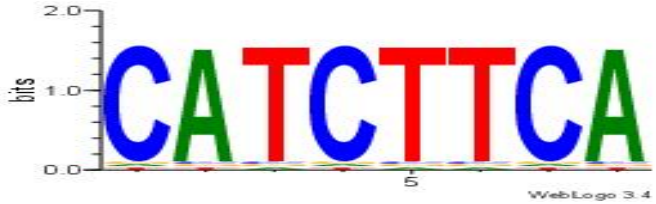

Reverse complement motif Consensus sequence: TGAAGATG

Best Matches for Significant Motif ID 352 (Highest to Lowest)

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0276887

Alignment:

```
TCAGGAGTGAAGCTGC
-------TGAAGATG-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

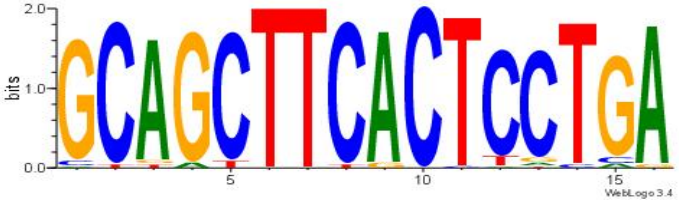

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

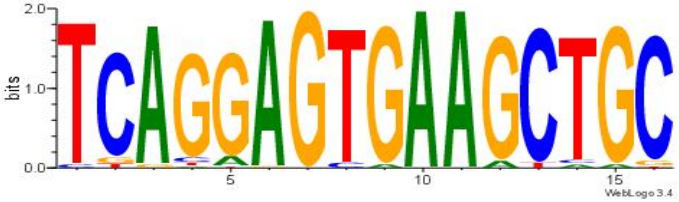

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0334876

Alignment:

```
AGTTCTTAAAGATGGT
--TGAAGATG------
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

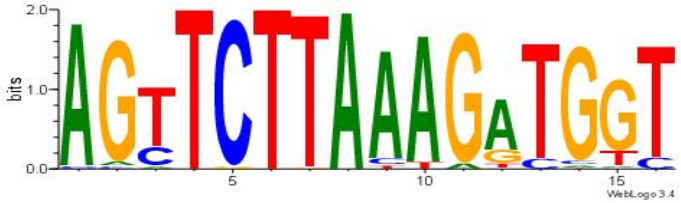

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

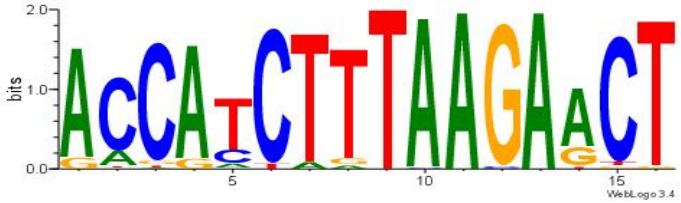

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 8
Similarity score: 0.0397493

Alignment:
ATTCAASATGAGATTTGGG
--TGAAGATG---------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

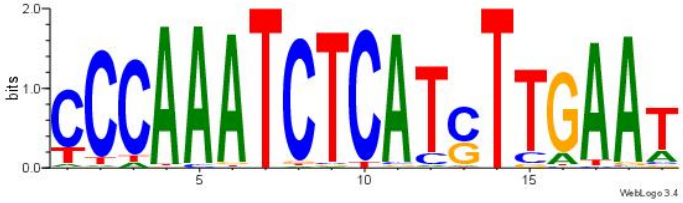

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

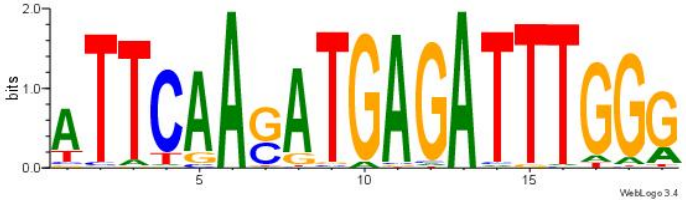

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 8
Similarity score: 0.0443445

Alignment:
ACATCMTCTGAAATCTAGG
----------CATCTTCA-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

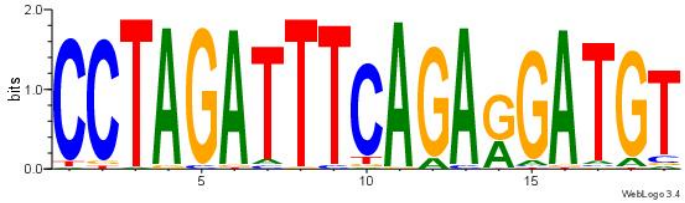

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

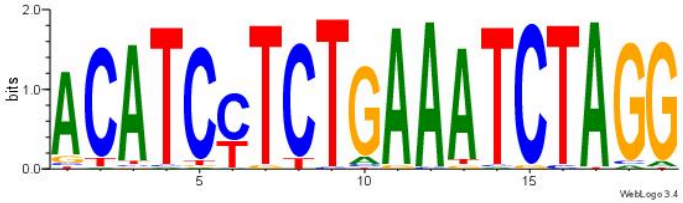

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0449237

Alignment:

```
CAGACTGCCTCCTCAA
-------CATCTTCA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

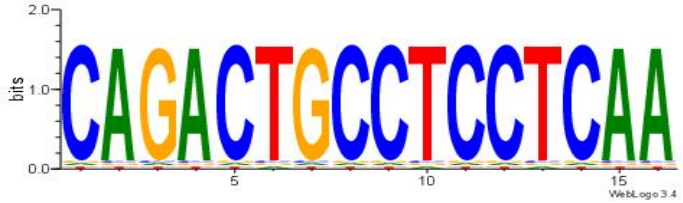

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

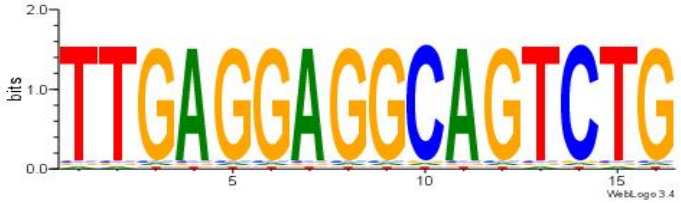

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0500791

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--CATCTTCA----------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

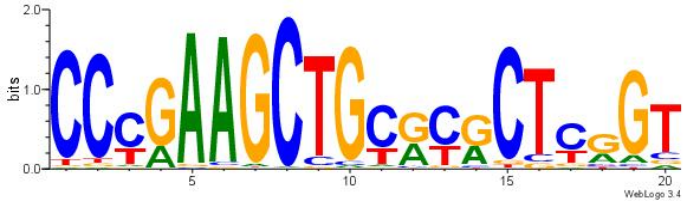

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

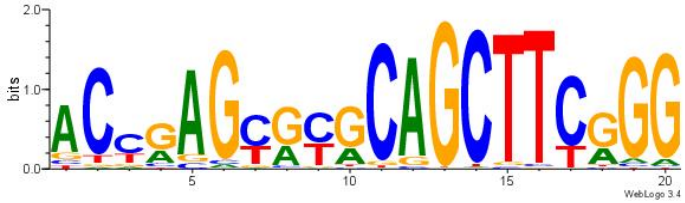

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 8
Similarity score: 0.0501241

Alignment:
GGTCAGGATCATCAATAT
----CATCTTCA------

Original motif Consensus sequence: ATATTGATGATCCTGACC

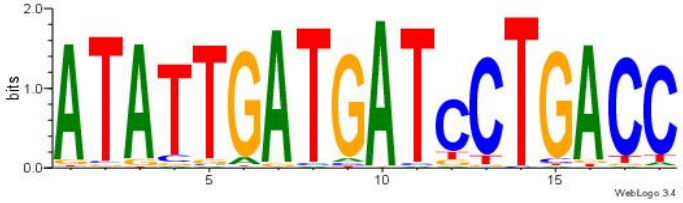

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

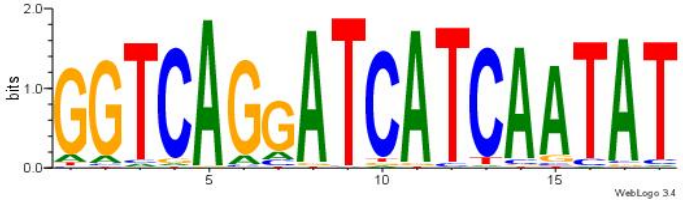

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 8
Similarity score: 0.0520103

Alignment:
ACTGTCTTCCACCTCCACAT
---------CATCTTCA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

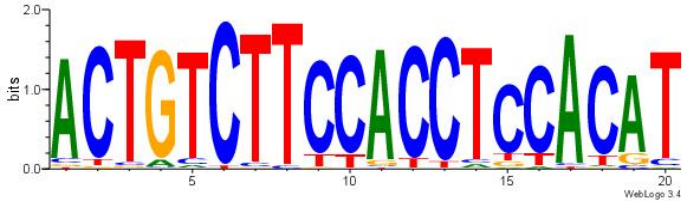

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

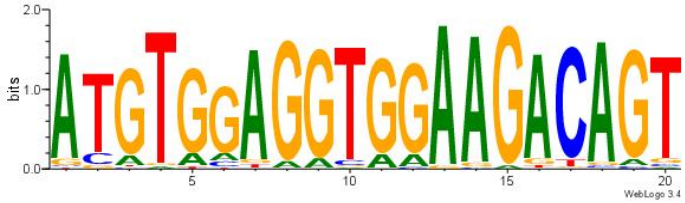

Dataset #:	1
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0537028

Alignment:

```
ATTTTACAGATG
----TGAAGATG
```

Original motif Consensus sequence: CATCTGTAAAAT

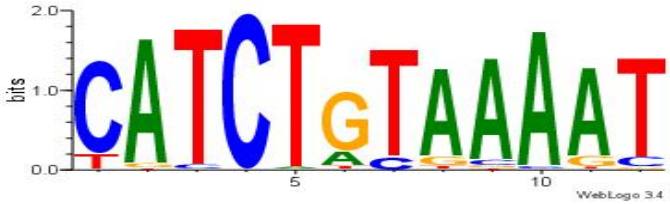

Reverse complement motif Consensus sequence: ATTTTACAGATG

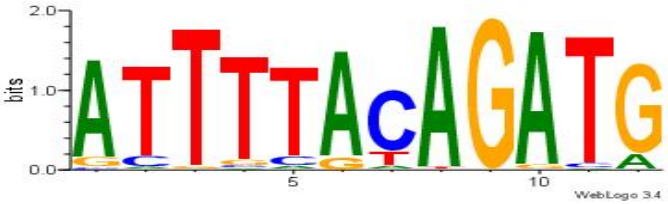

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0547819

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----TGAAGATG-------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

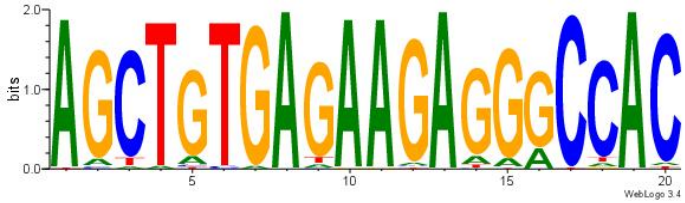

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

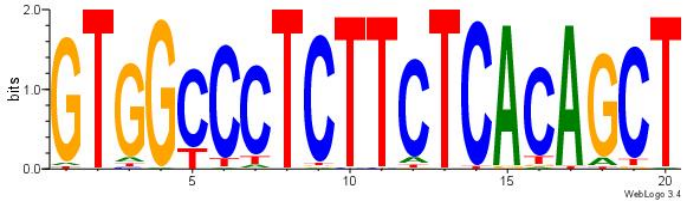

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12

Number of overlap: 8
Similarity score: 0.0548679

Alignment:
CGGCTTCATTCTTGAAGTC
----------CATCTTCA

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

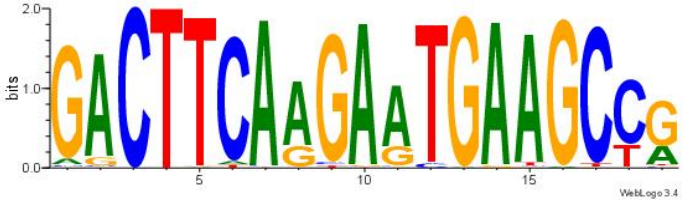

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

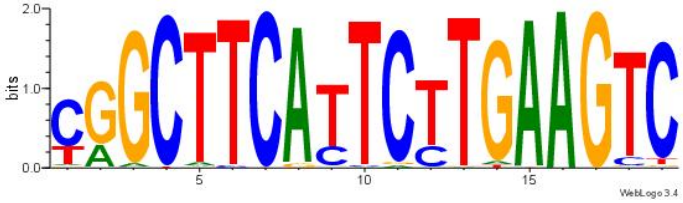

Dataset #: 1
Motif ID: 346
Motif name: Motif 346
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 8
Similarity score: 0.0550381

Alignment:
AAATCTTAAAGCTC
-CATCTTCA-----

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

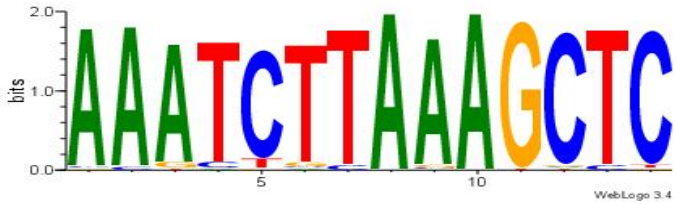

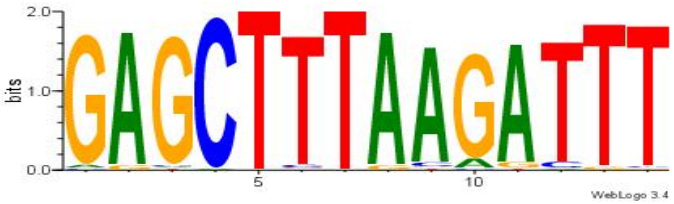

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0551185

Alignment:

```
ACATCCCAGACGATGGGCG
----TGAAGATG-------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

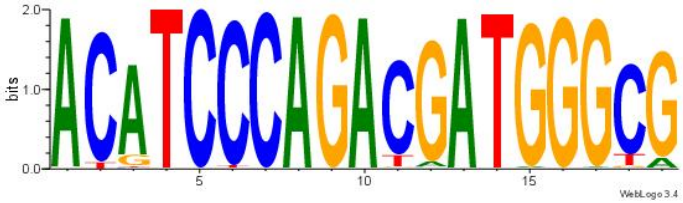

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

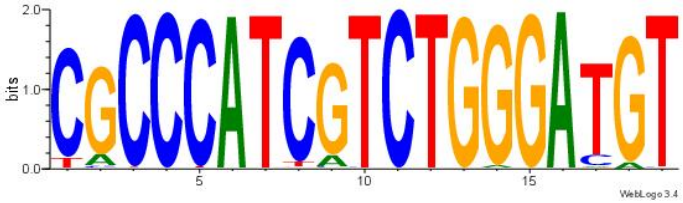

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0557164

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----CATCTTCA-------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

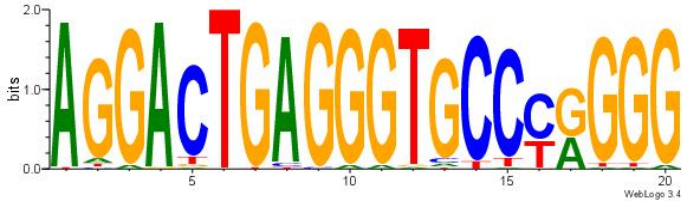

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

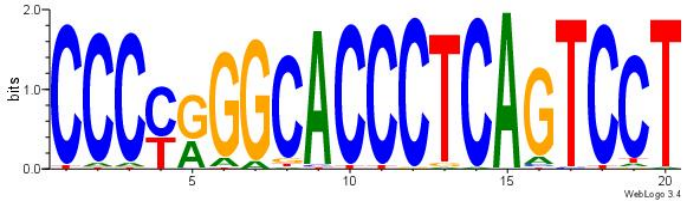

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8

Similarity score: 0.0572159

Alignment:
GACTGGCAGGCAGCTCCACC
----------CATCTTCA--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

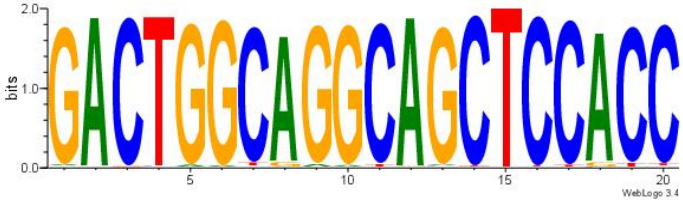

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

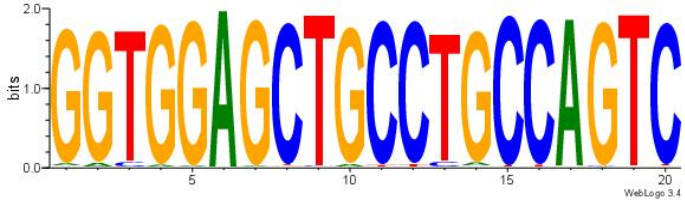

Dataset #: 1
Motif ID: 249
Motif name: Motif 249
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0580399

Alignment:
TGTGAAGAGACCACCAA
-------TGAAGATG--

Original motif Consensus sequence: TGTGAAGAGACCACCAA

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

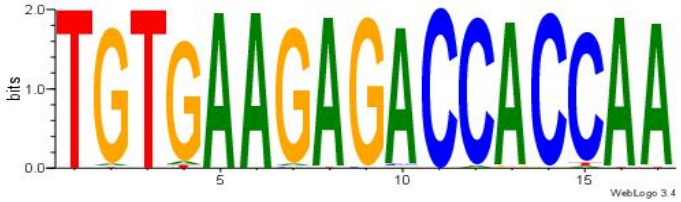

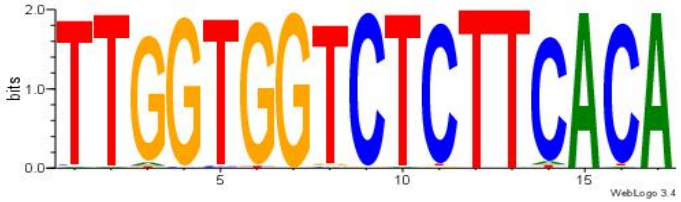

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0583664

Alignment:

```
CTCATTTAATCCTCACAAC
-------CATCTTCA----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

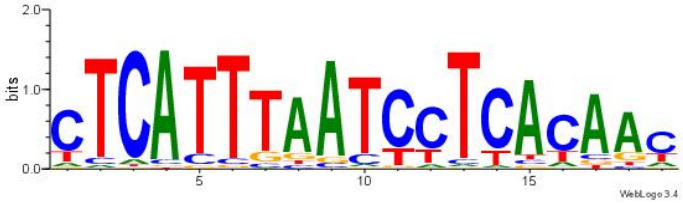

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

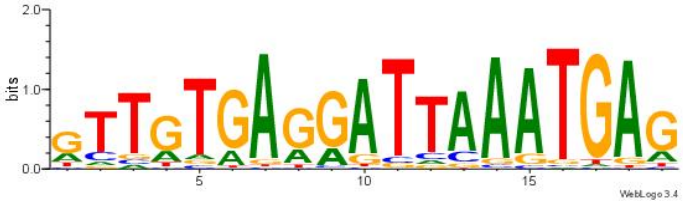

Dataset #: 1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0588399

Alignment:

```
CATCTGGAGCCCCA
CATCTTCA------
```

Original motif Consensus sequence: CATCTGGAGCCCCA

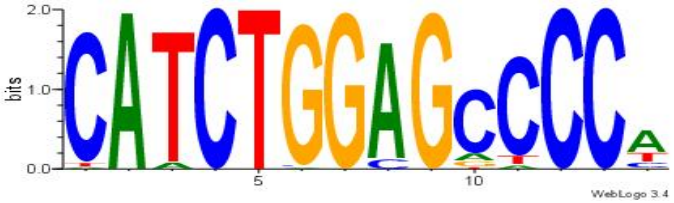

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

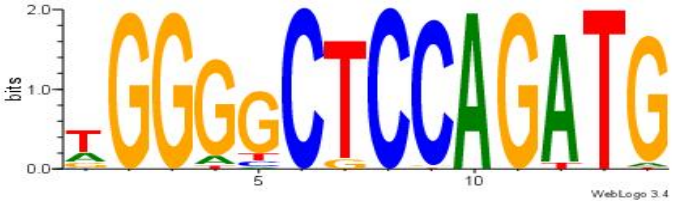

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0596458

Alignment:
CATAGGAGATGAC
--TGAAGATG---

Original motif Consensus sequence: CATAGGAGATGAC

Reverse complement motif Consensus sequence: GTCATCTCCTATG

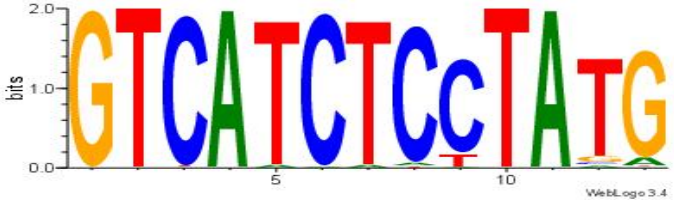

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0596642

Alignment:
CATTTCCAWCTGAGGTAC
CATCTTCA----------

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

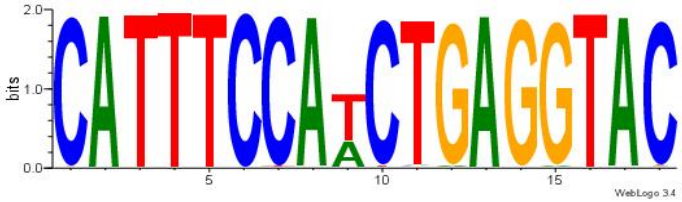

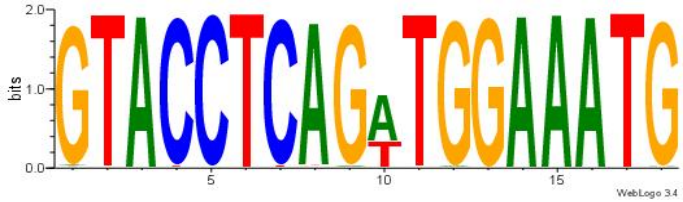

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0608041

Alignment:

```
CTCCAGKTMCATCCATGTTG
---------CATCTTCA---
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

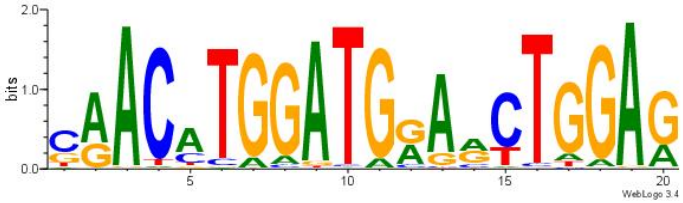

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

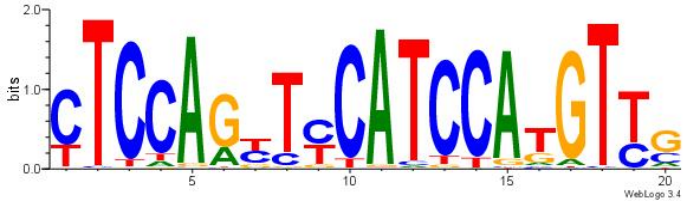

Dataset #:	1

Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0611705

Alignment:

```
CCATGTTTATT
--CATCTTCA-
```

Original motif Consensus sequence: AATAAACATGG

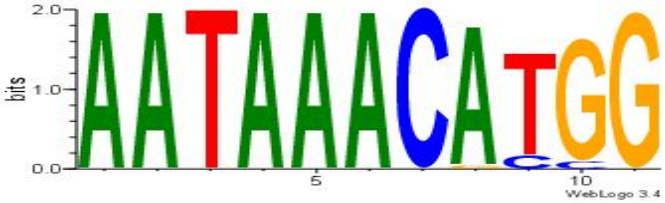

Reverse complement motif Consensus sequence: CCATGTTTATT

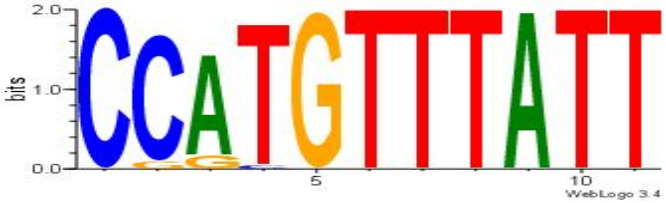

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0633572

Alignment:
AGGGCCTTTGCASWTGC
-TGAAGATG--------

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

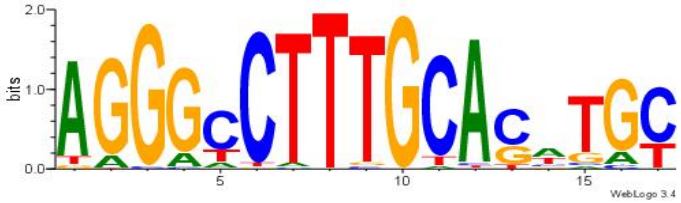

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

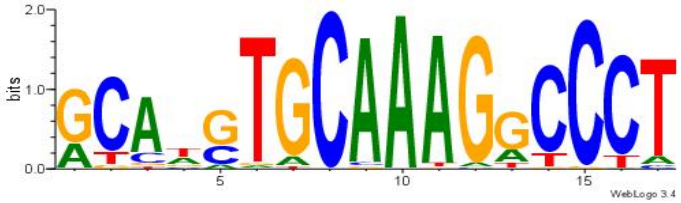

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0645881

Alignment:
AAAMAMMKMATGTTCTCACT
----CATCTTCA--------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

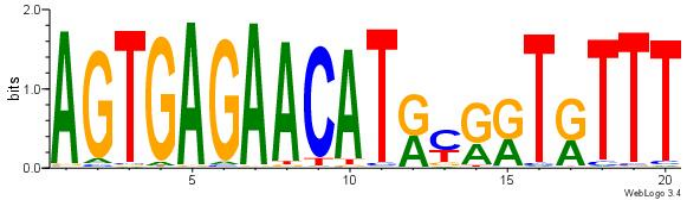

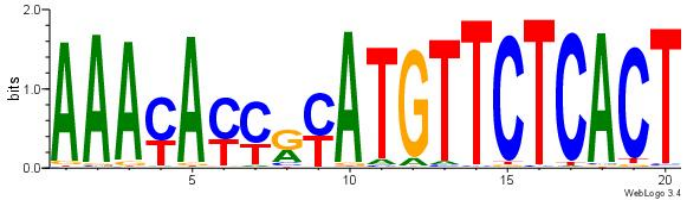

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0659528

Alignment:

```
ACATCTGYMMCC
-CATCTTCA---
```

Original motif Consensus sequence: ACATCTGYMMCC

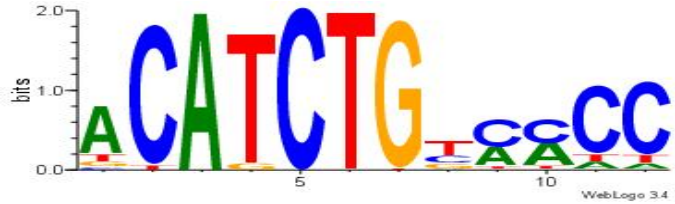

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	70

Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0660012

Alignment:

```
CTATTGTGAATARTGCTGC
-----TGAAGATG------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

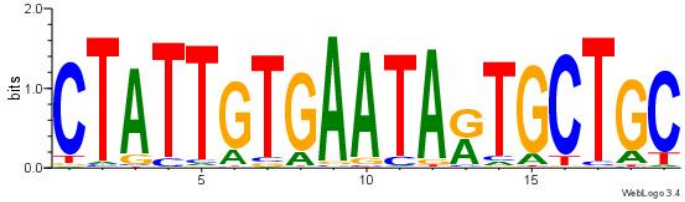

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

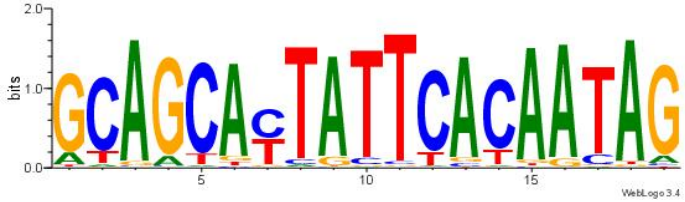

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0668508

Alignment:
AGGAACAGCTCCRGTCTAC
-----CATCTTCA------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

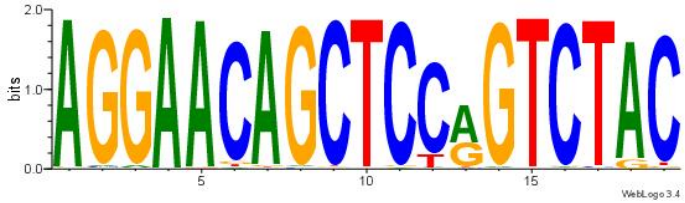

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

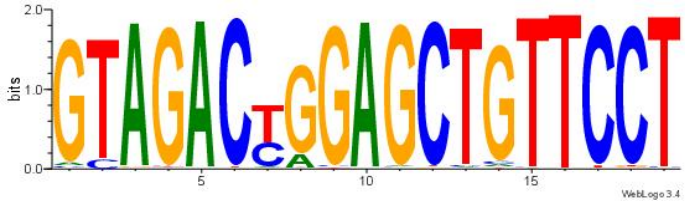

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0690835

Alignment:
GGACCTTCAGAGC
-CATCTTCA----

Original motif Consensus sequence: GCTCTGAAGGTCC

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

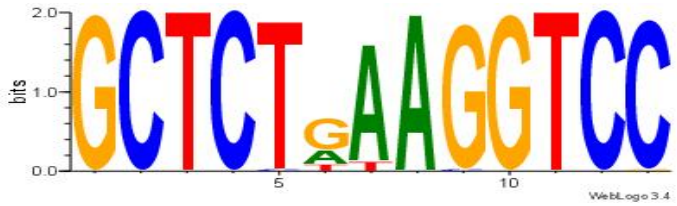

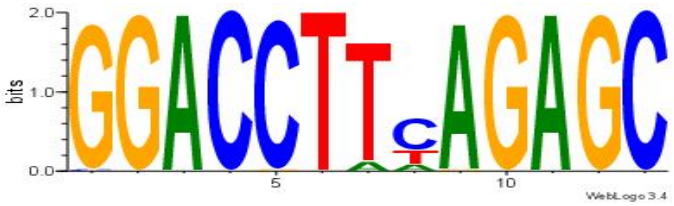

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0692651

Alignment:
GCCGGGRAGAGGCGCTCCT
----TGAAGATG-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

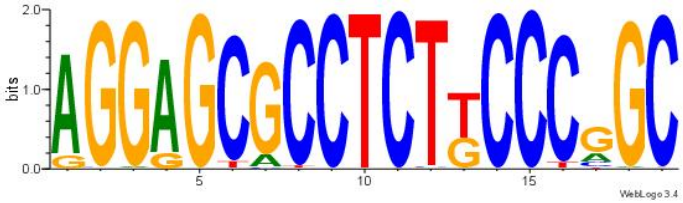

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

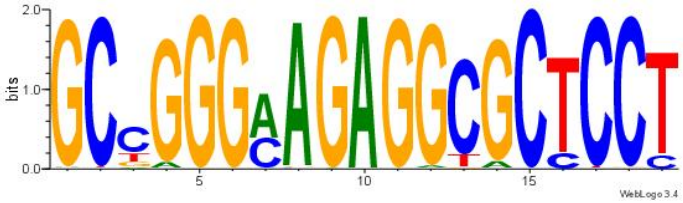

Dataset #: 1

Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
GCAGGAGGTGAG
--TGAAGATG--
```

Original motif Consensus sequence: CTCACCTCCTGC

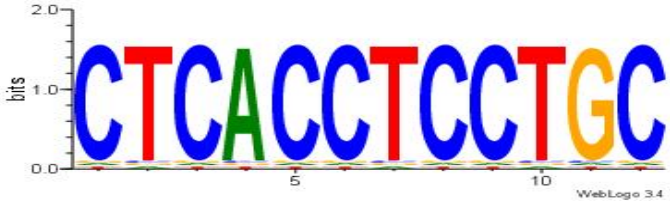

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

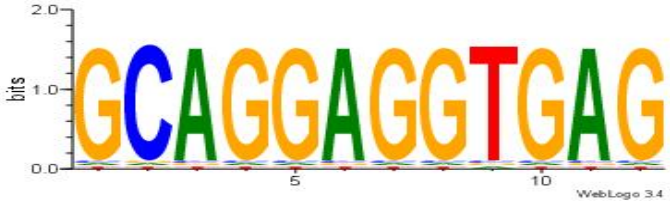

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
CAAACTGCAAG
-CATCTTCA--

Original motif Consensus sequence: CAAACTGCAAG

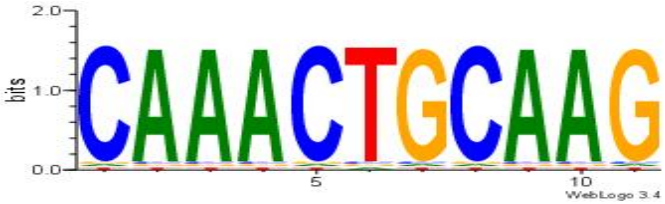

Reverse complement motif Consensus sequence: CTTGCAGTTTG

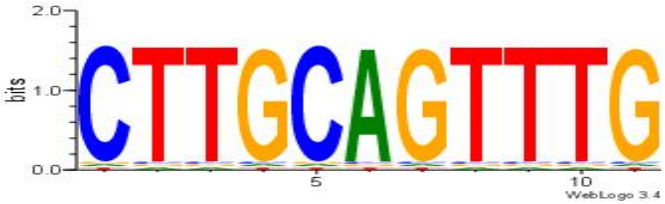

Dataset #:	1
Motif ID:	334
Motif name:	Motif 334
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
GTGACAGATG
--TGAAGATG

Original motif Consensus sequence: CATCTGTCAC

Reverse complement motif Consensus sequence: GTGACAGATG

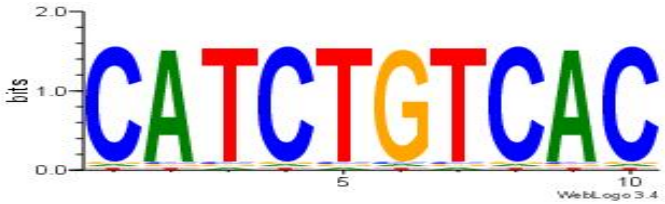

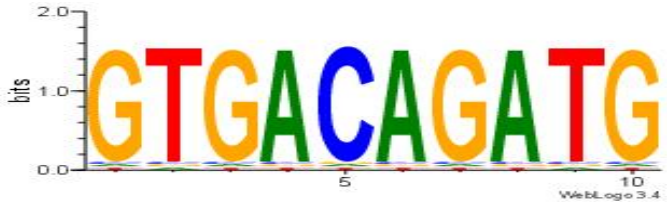

Dataset #:	1
Motif ID:	134
Motif name:	Motif 134
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
CAAACTGCA
-CATCTTCA
```

Original motif Consensus sequence: CAAACTGCA

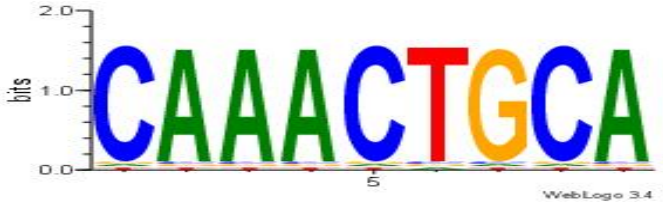

Reverse complement motif Consensus sequence: TGCAGTTTG

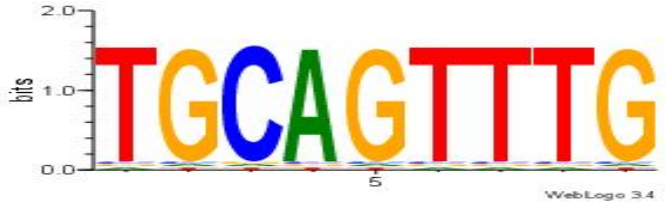

Dataset #:	1
Motif ID:	207

Motif name:	Motif 207
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
TCAAGGTC
TGAAGATG
```

Original motif Consensus sequence: GACCTTGA

Reverse complement motif Consensus sequence: TCAAGGTC

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
TACAGGTGCGT
TGAAGATG---

Original motif Consensus sequence: ACGCACCTGTA

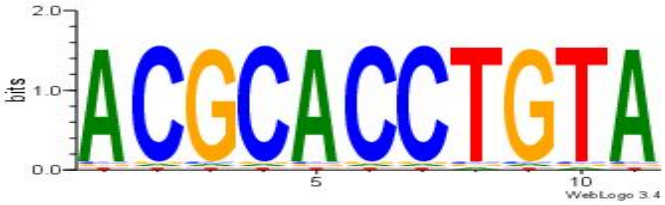

Reverse complement motif Consensus sequence: TACAGGTGCGT

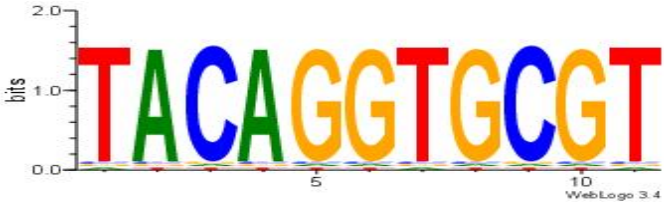

Dataset #:	1
Motif ID:	342
Motif name:	Motif 342
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
GCCTATTAAAC
-CATCTTCA--

Original motif Consensus sequence: GCCTATTAAAC

Reverse complement motif Consensus sequence: GTTTAATAGGC

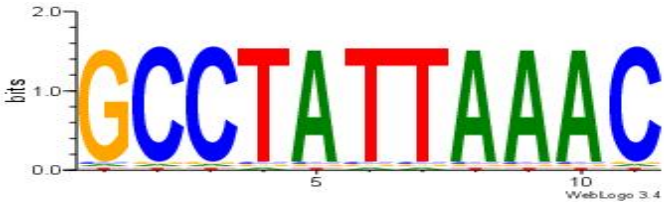

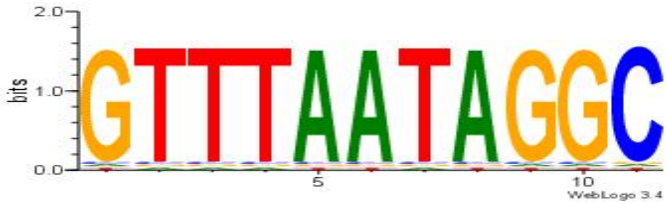

Dataset #:	1
Motif ID:	335
Motif name:	Motif 335
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
TCAGCATTAAC
--CATCTTCA-
```

Original motif Consensus sequence: GTTAATGCTGA

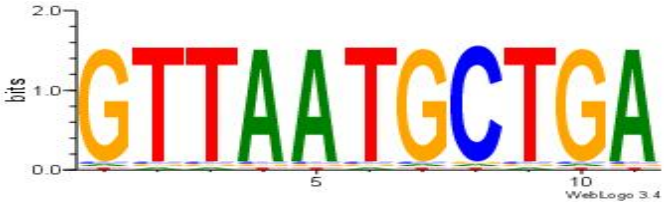

Reverse complement motif Consensus sequence: TCAGCATTAAC

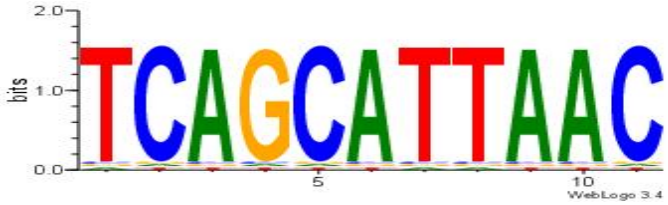

Dataset #:	1
Motif ID:	149

Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0757143

Alignment:

```
ACTCAGCCCRCCTGCACCC
--------CATCTTCA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

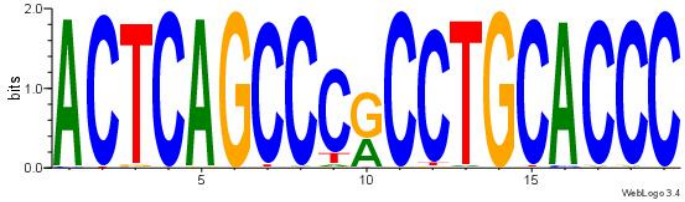

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

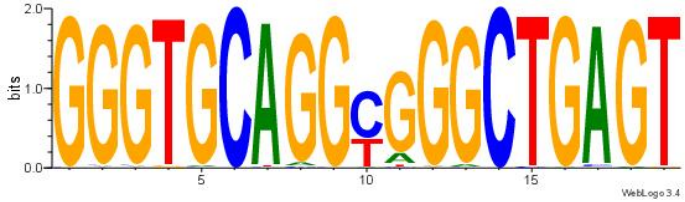

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0765785

Alignment:
CATGGAGCGGKK
--TGAAGATG--

Original motif Consensus sequence: CATGGAGCGGKK

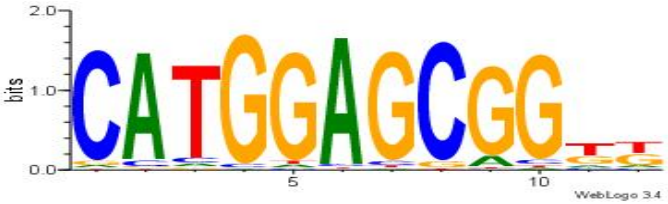

Reverse complement motif Consensus sequence: RRCCGCTCCATG

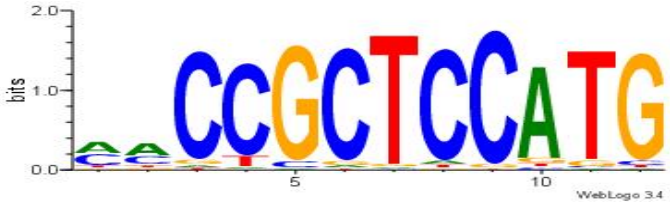

Dataset #:	1
Motif ID:	185
Motif name:	Motif 185
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0767071

Alignment:
GAAGATGAMG
TGAAGATG--

Original motif Consensus sequence: GAAGATGAMG

Reverse complement motif Consensus sequence: CYTCATCTTC

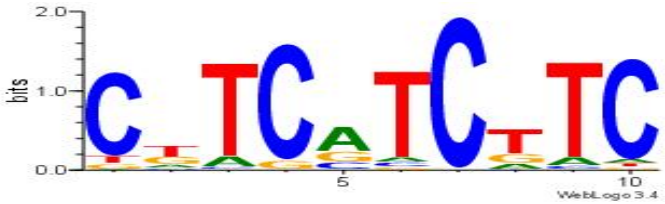

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.076778

Alignment:

```
KKCACCTTGATCTTGGACTT
----------CATCTTCA--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

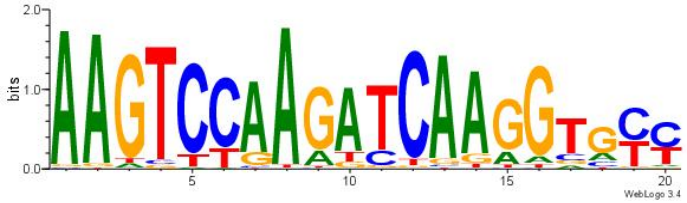

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

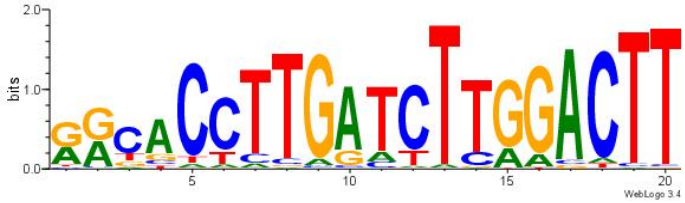

Dataset #: 1

Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0768003

Alignment:

```
GCCCTCACCATCC
-----CATCTTCA
```

Original motif Consensus sequence: GCCCTCACCATCC

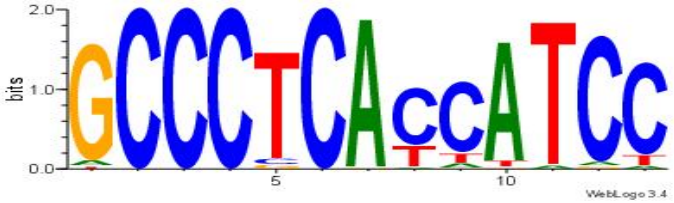

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

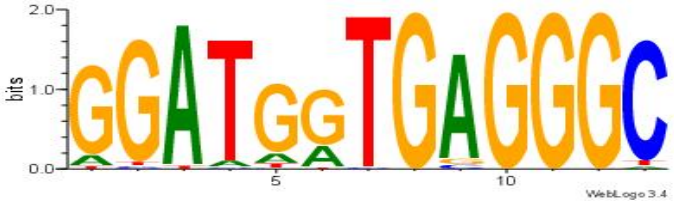

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0768183

Alignment:
TMGGGAGGCTGAGGCAGGAG
---------TGAAGATG---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

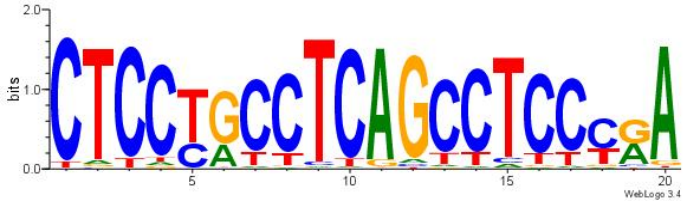

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

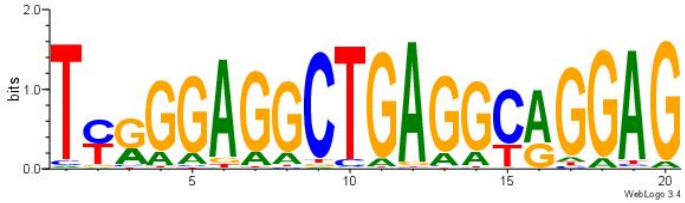

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0775304

Alignment:
ACACATCACAAAGCAGTTTC
---CATCTTCA---------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

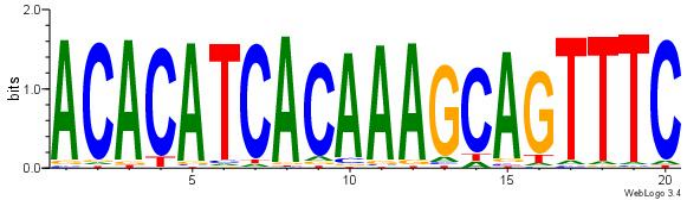

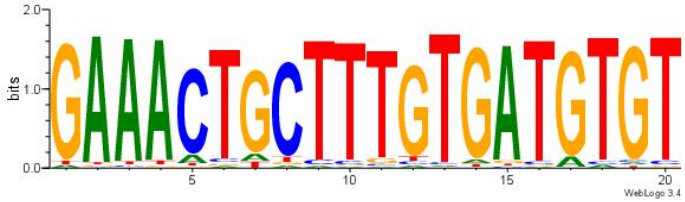

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0782934

Alignment:

```
CGTCGCTCACGCTGGGAGCT
------TGAAGATG------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

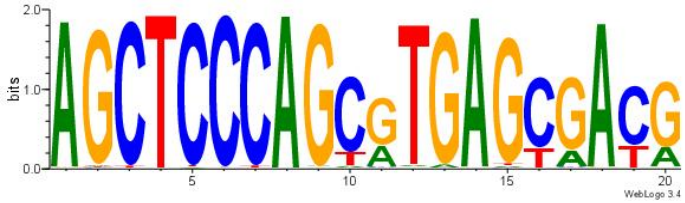

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

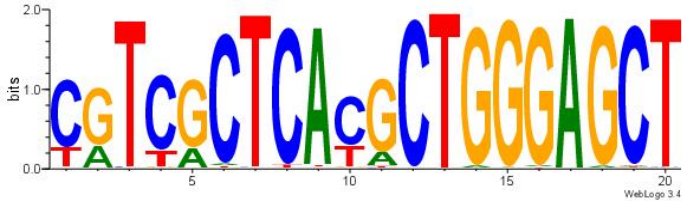

Dataset #:	1

Motif ID:	208
Motif name:	Motif 208
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0785969

Alignment:

```
ATCGCCCTCAC
-CATCTTCA--
```

Original motif Consensus sequence: GTGAGGGCGAT

Reverse complement motif Consensus sequence: ATCGCCCTCAC

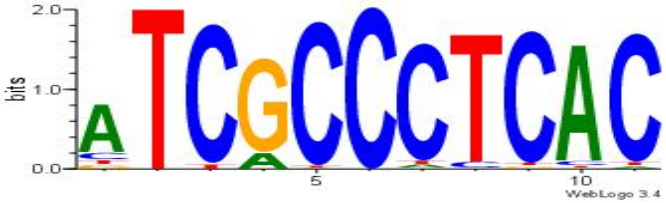

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0787281

Alignment:
AGGTCCTTCAGGAGGTATTC
-----TGAAGATG-------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

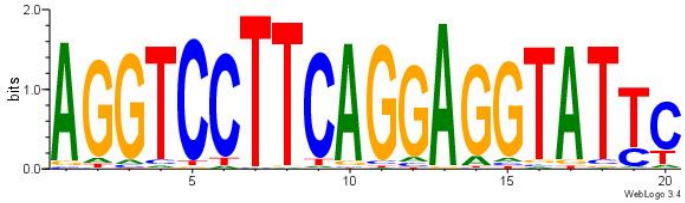

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

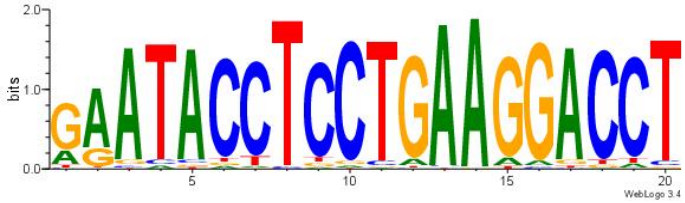

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0790784

Alignment:
AATCAACCCTGGYRATCAAT
---TGAAGATG---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

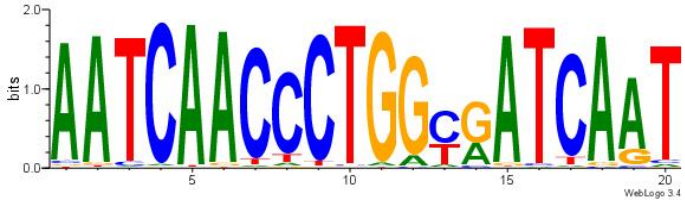

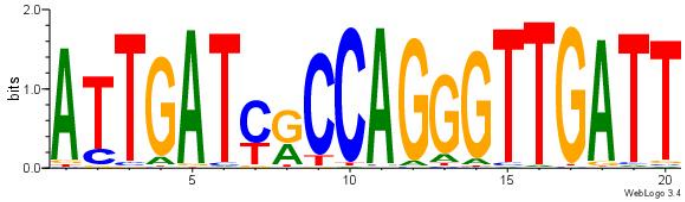

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0790866

Alignment:

```
ATTGGTGTATTTACAATCCC
-------CATCTTCA-----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

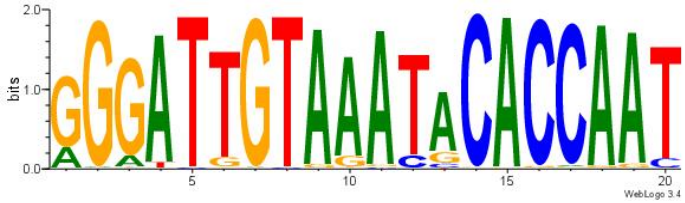

Dataset #: 1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0791992

Alignment:

```
CCCTGCTAGAACCTCCAA
---------CATCTTCA-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

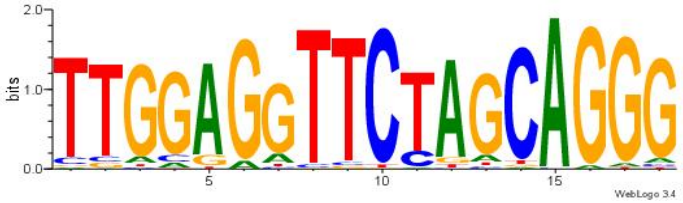

Dataset #: 1 Motif ID: 295 Motif name: Motif 295

Original motif Consensus sequence: CCCCGCCCC

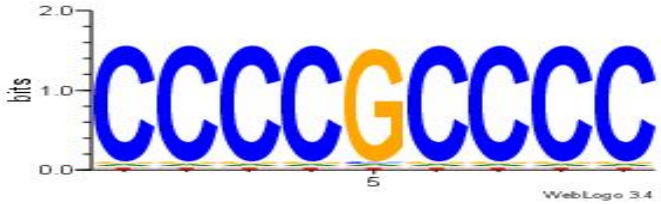

Reverse complement motif Consensus sequence: GGGGCGGGG

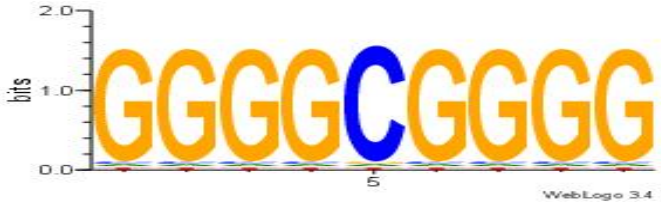

Best Matches for Significant Motif ID 295 (Highest to Lowest)

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.02574

Alignment:

```
CGAGCCCTGCCCCGCGG
----CCCCGCCCC----
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

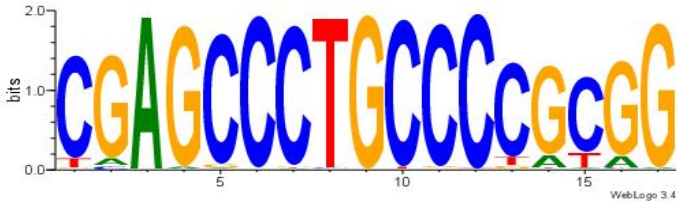

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

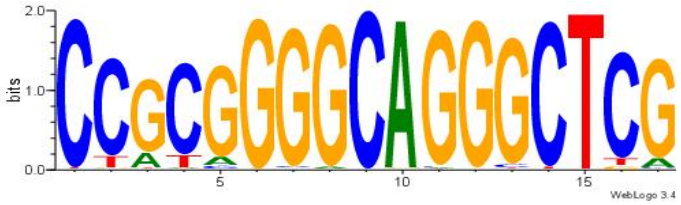

Dataset #:	1
Motif ID:	250
Motif name:	Motif 250
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0380756

Alignment:
CCACCGCTCC
-CCCCGCCCC

Original motif Consensus sequence: CCACCGCTCC

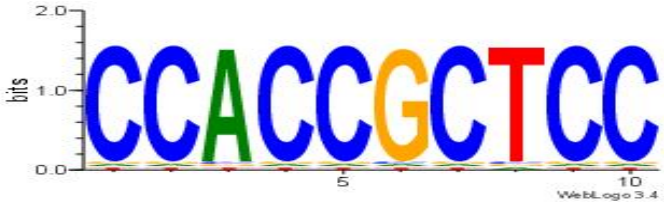

Reverse complement motif Consensus sequence: GGAGCGGTGG

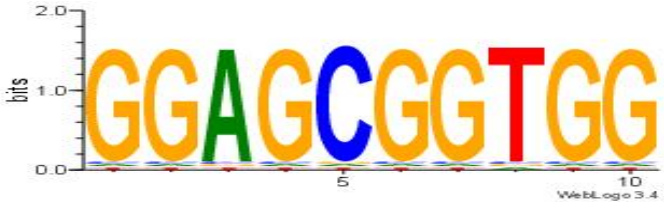

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0387901

Alignment:
CCCCWCCCCCA
CCCCGCCCC--

Original motif Consensus sequence: CCCCWCCCCCA

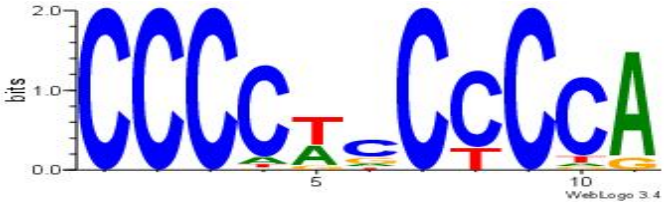

Reverse complement motif Consensus sequence: TGGGGGWGGGG

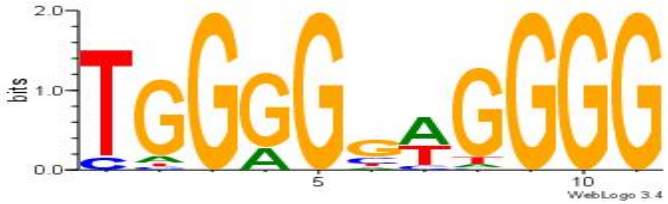

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.047748

Alignment:

```
GGGGGCTGACCCCCCCACC
----------CCCCGCCCC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

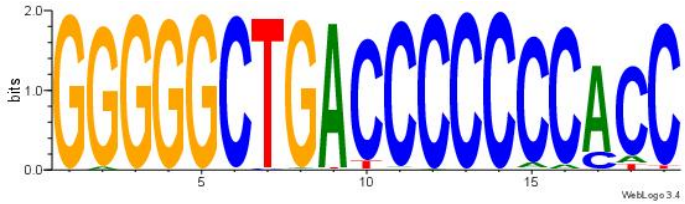

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

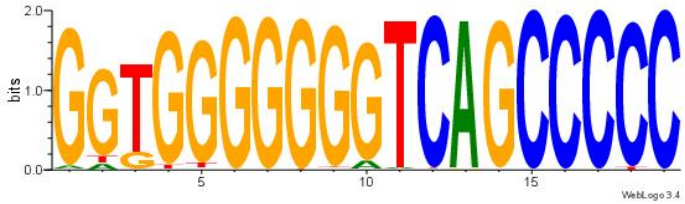

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0495574

Alignment:

```
GAAAGGGAACTCCCTGACCC
-----------CCCCGCCCC
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

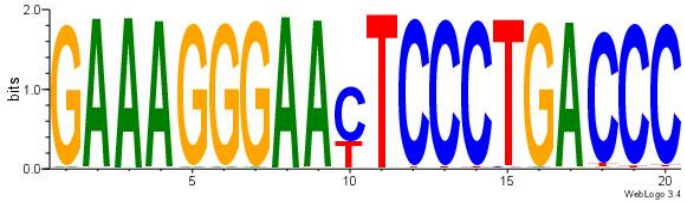

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

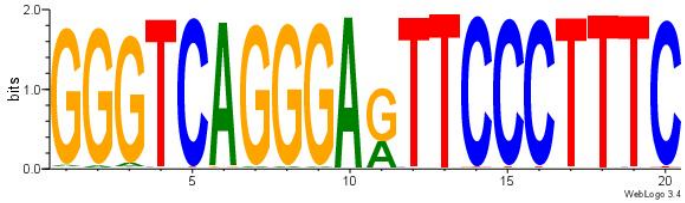

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 9
Similarity score: 0.0502986

Alignment:
CGCCGCCGCCGC
---CCCCGCCCC

Original motif Consensus sequence: CGCCGCCGCCGC

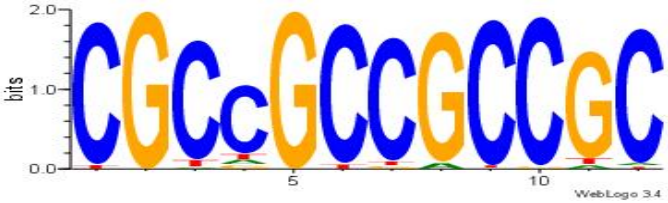

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

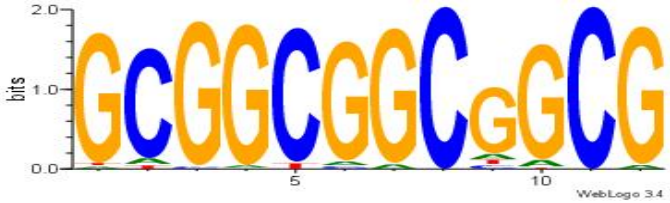

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0504162

Alignment:
AGTTCCGGGTGGGCGTGGG
-GGGGCGGGG---------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

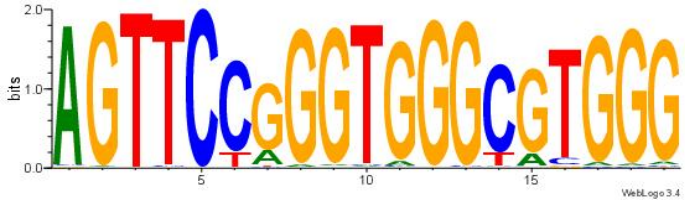

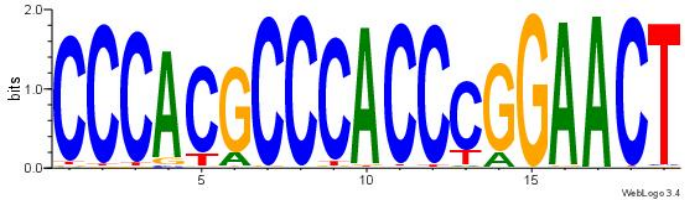

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0504816

Alignment:

```
GGGGTTGGGG
-GGGGCGGGG
```

Original motif Consensus sequence: CCCCAACCCC

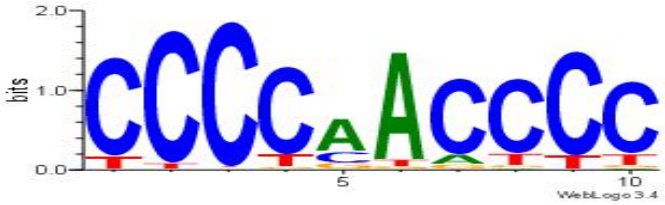

Reverse complement motif Consensus sequence: GGGGTTGGGG

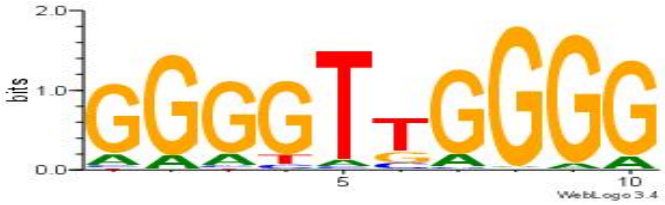

Dataset #:	1
Motif ID:	75

Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0507829

Alignment:

```
RRCCGCTCCATG
---CCCCGCCCC
```

Original motif Consensus sequence: CATGGAGCGGKK

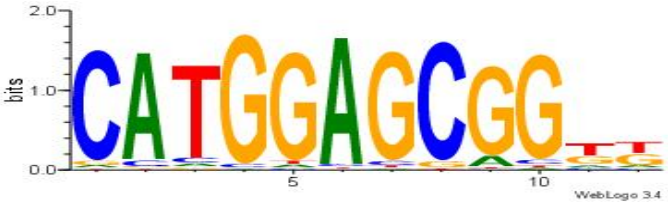

Reverse complement motif Consensus sequence: RRCCGCTCCATG

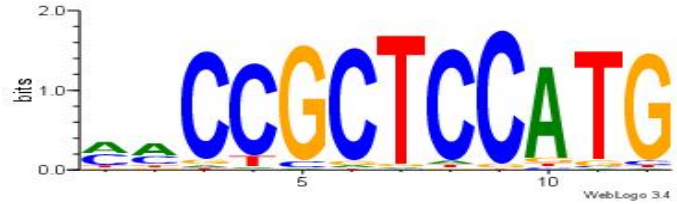

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0514431

Alignment:
CTCTGCCCGGCCGC
-----CCCCGCCCC

Original motif Consensus sequence: CTCTGCCCGGCCGC

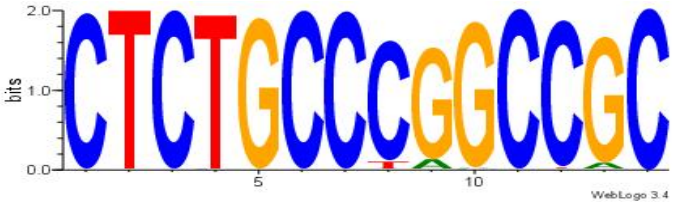

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

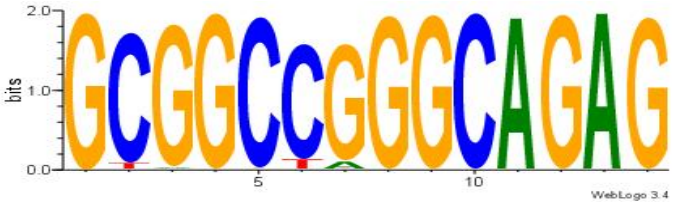

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0526551

Alignment:
CAGGCGGCTGGGAG
--GGGGCGGGG---

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

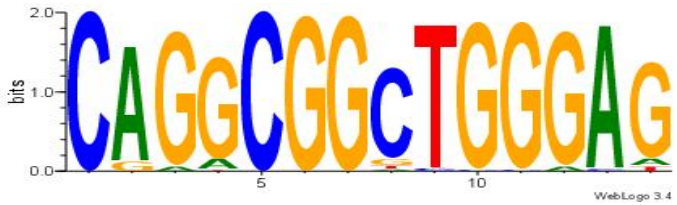

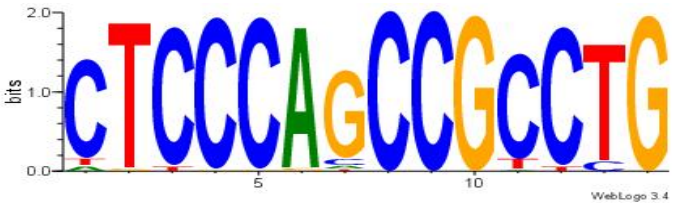

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0554786

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-------CCCCGCCCC----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

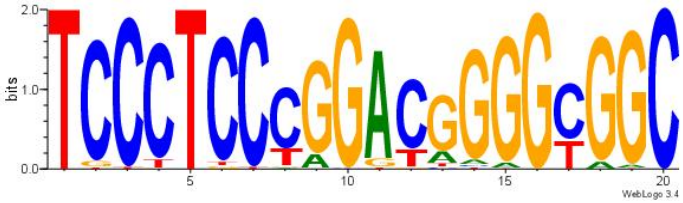

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

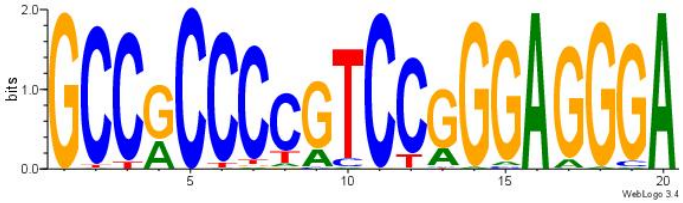

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0555587

Alignment:

```
GGCAATGCCTCGCCCTGCTT
----CCCCGCCCC-------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

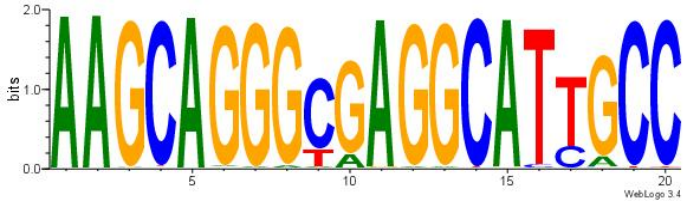

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

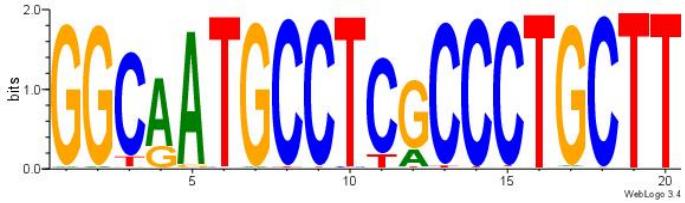

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0594186

Alignment:
CCTCCCAGCCGCCT
--CCCCGCCCC---

Original motif Consensus sequence: AGGCGGCTGGGAGG

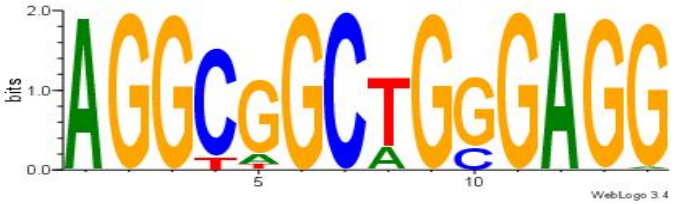

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.0596722

Alignment:
KGGGCDGAGGGGCTCCT
GGGGCGGGG--------

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

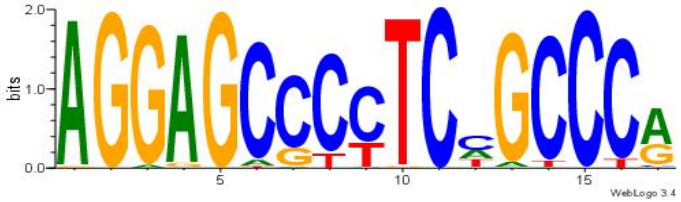

Dataset #:	1
Motif ID:	198
Motif name:	Motif 198
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0602114

Alignment:

```
TCCCTRCCCT
CCCCGCCCC-
```

Original motif Consensus sequence: AGGGMAGGGA

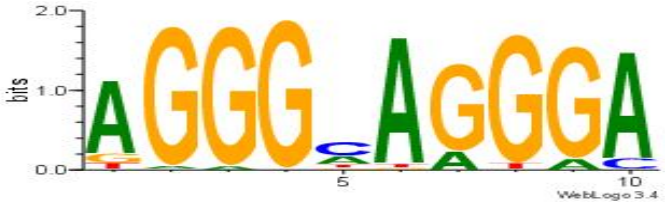

Reverse complement motif Consensus sequence: TCCCTRCCCT

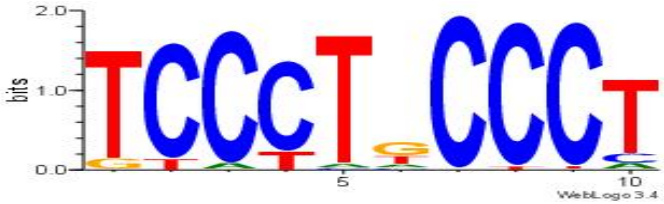

Dataset #:	1
Motif ID:	197

Motif name:	Motif 197
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0633281

Alignment:

```
GCTGGCCGGGCG
-GGGGCGGGG--
```

Original motif Consensus sequence: CGCCCGGCCAGC

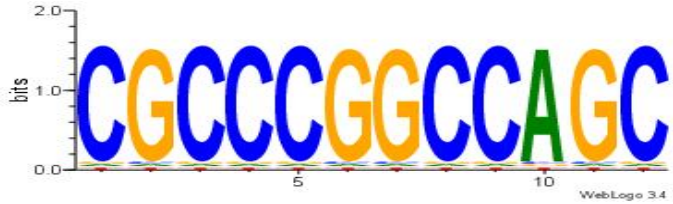

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

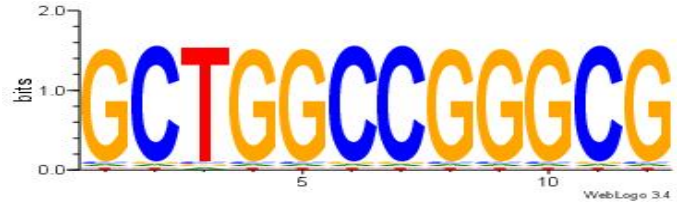

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0642516

Alignment:
AGCTCMKCCTCCTGTCAGAT
---------CCCCGCCCC--

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

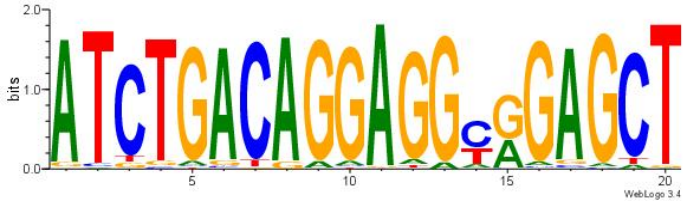

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

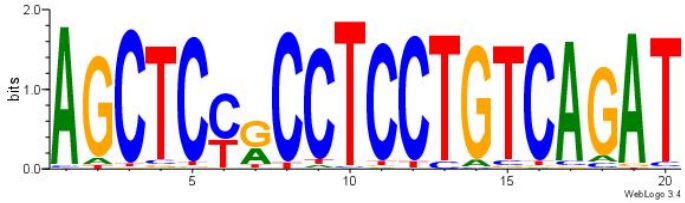

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0645052

Alignment:
GGCCMGCAGGGCKGGC
-------GGGGCGGGG

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence:
GGCCMGCAGGGCKGGC

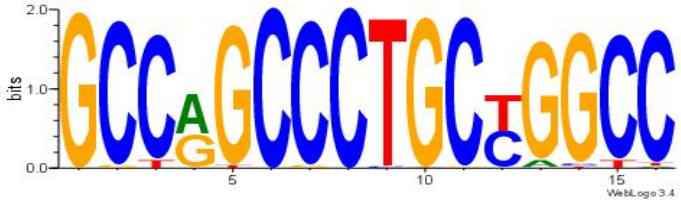

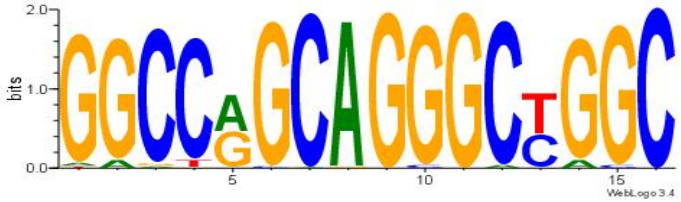

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0657113

Alignment:

```
ATTAGCYRGGCRTGGTGGC
----GGGGCGGGG------
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

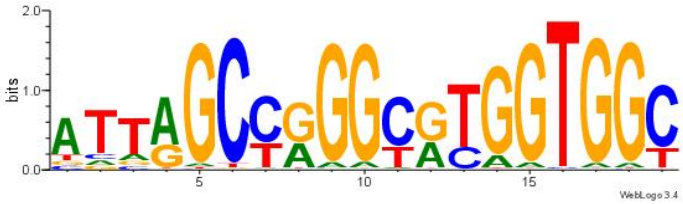

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

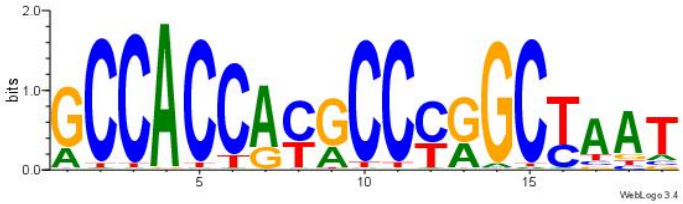

Dataset #:	1

Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0660464

Alignment:

```
CCCAGCTCTGCC
CCCCGCCCC---
```

Original motif Consensus sequence: CCCAGCTCTGCC

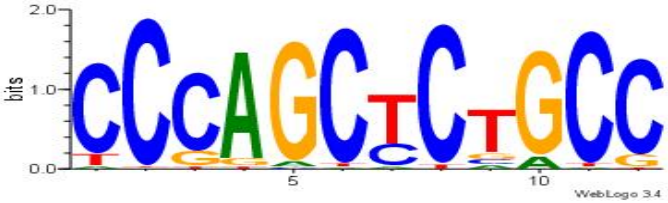

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0661381

Alignment:
GCCGGGRAGAGGCGCTCCT
---GGGGCGGGG-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

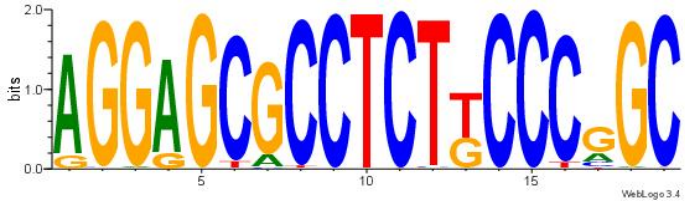

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

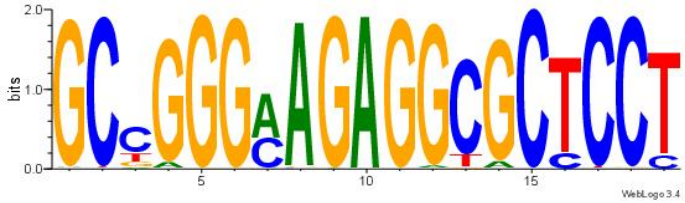

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0679375

Alignment:
GKGGCAGTGAGGC
GGGGCGGGG----

Original motif Consensus sequence: GCCTCACTGCCRC

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

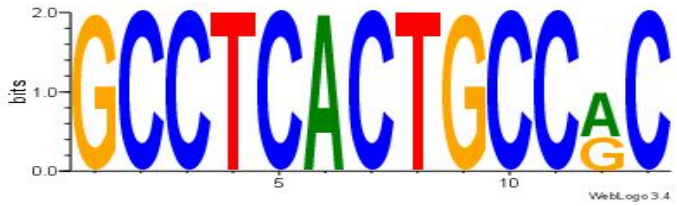

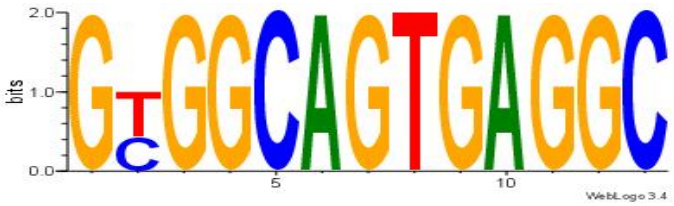

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0682021

Alignment:

```
AAGCTCGAACTGGGTGGAGC
----------GGGGCGGGG-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

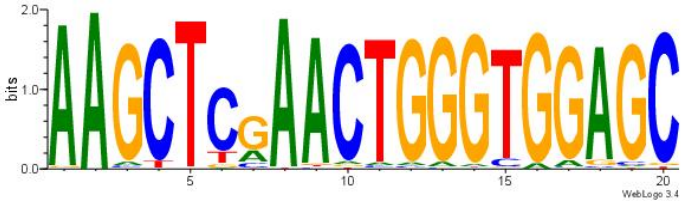

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

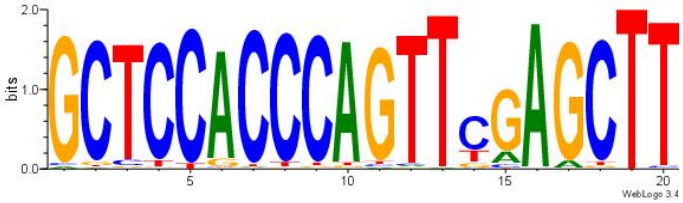

Dataset #: 1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0688111

Alignment:

```
AGCCCCGGTTCCCGCYCGC
---------CCCCGCCCC-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

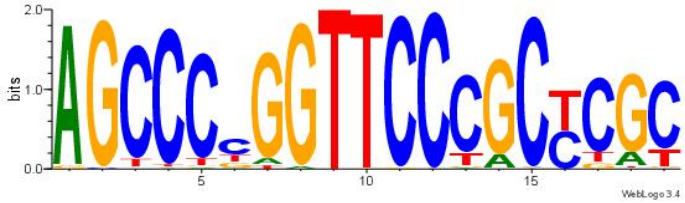

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

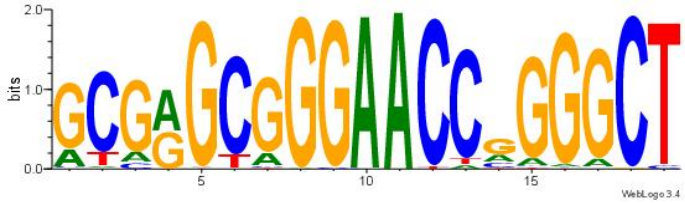

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.0705895

Alignment:
GGMGCKGTGGCTC
GGGGCGGGG----

Original motif Consensus sequence: GAGCCACYGCRCC

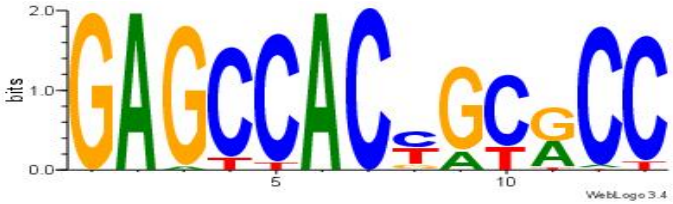

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #: 1
Motif ID: 5
Motif name: Motif 5
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0709702

Alignment:
GGAGGCKGAGG
-GGGGCGGGG-

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0714256

Alignment:

```
AGACAGTGGGYGCAGGHCA
--GGGGCGGGG--------
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

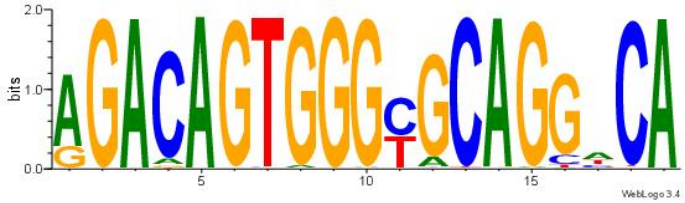

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

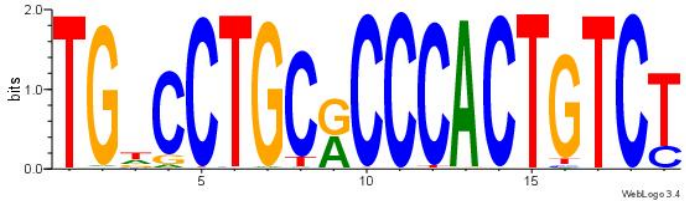

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0718282

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-------CCCCGCCCC----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

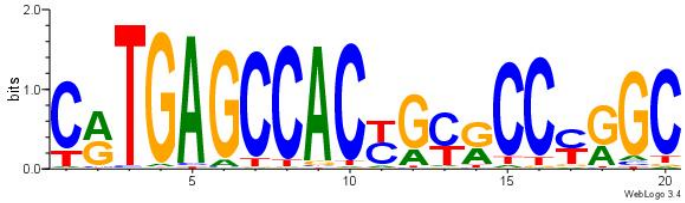

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

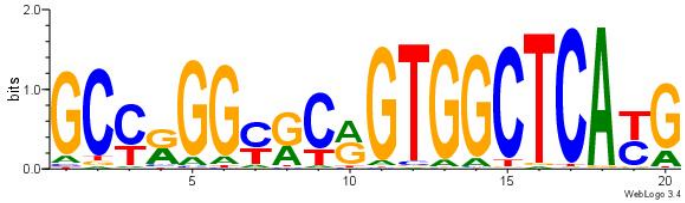

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9

Similarity score: 0.0721951

Alignment:
GTGTCCCCTTCCTCCC
---CCCCGCCCC----

Original motif Consensus sequence: GGGAGGAAGGGGACAC

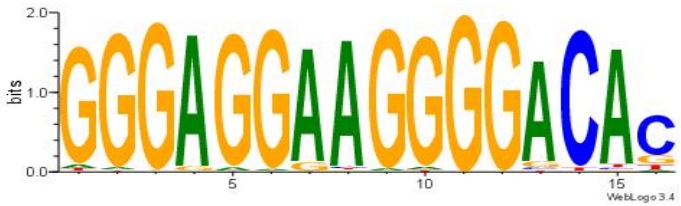

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

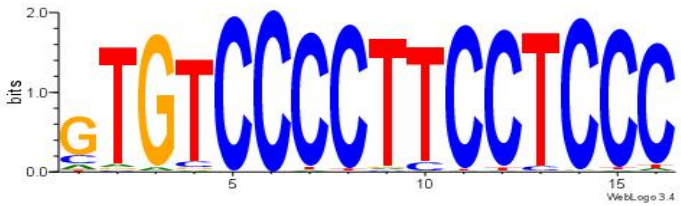

Dataset #: 1
Motif ID: 313
Motif name: Motif 313
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0721986

Alignment:
CTCCTGCCTCAGCY
-CCCCGCCCC----

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

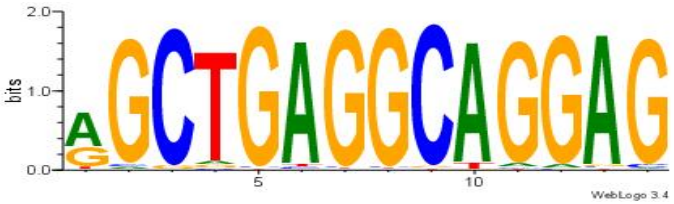

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0731443

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
---GGGGCGGGG--------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

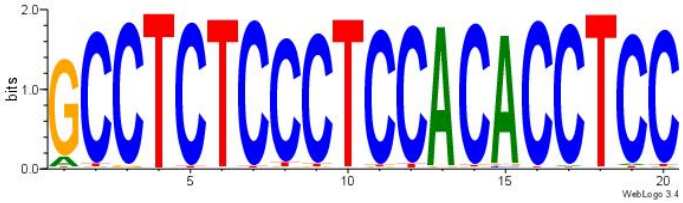

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

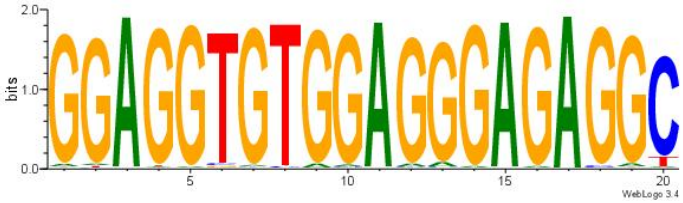

Dataset #:	1

Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0735689

Alignment:

```
GGGACTTGGG
GGGGCGGGG-
```

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0737348

Alignment:
AAGCTGAGGGAGCCGGCTCC
---GGGGCGGGG--------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

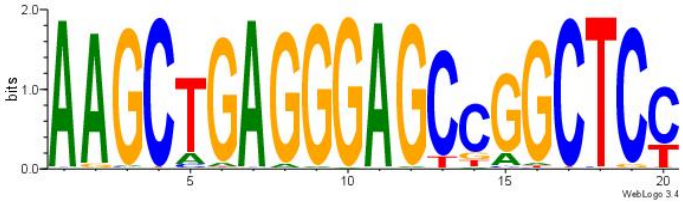

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

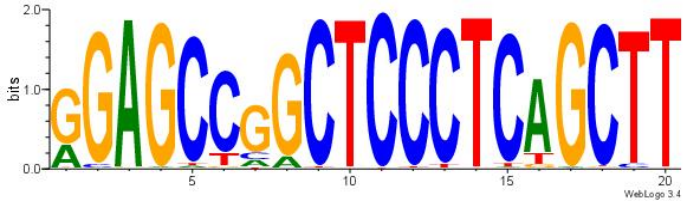

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0739516

Alignment:
TGCAGCCCCGGT
---CCCCGCCCC

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

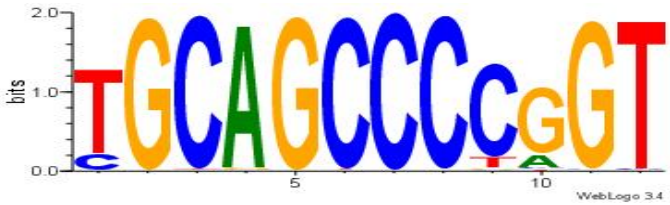

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0741916

Alignment:

```
VCCDCCTCCKCCTCCTC
CCCCGCCCC--------
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

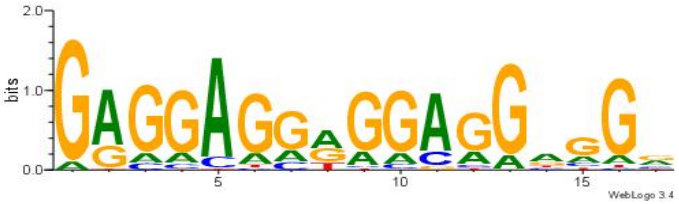

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

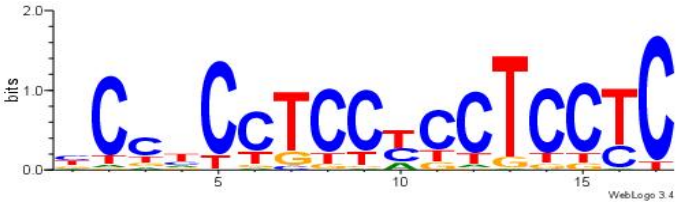

Dataset #: 1

Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.074772

Alignment:

```
ACCCCGTCTGGGA
-CCCCGCCCC---
```

Original motif Consensus sequence: ACCCCGTCTGGGA

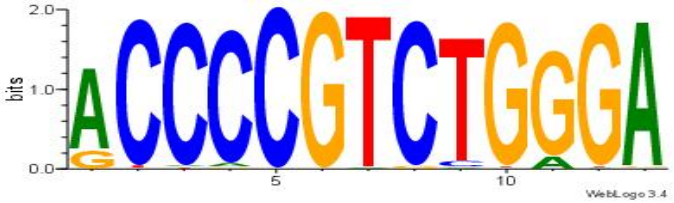

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

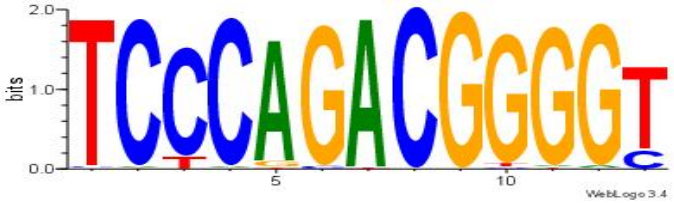

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0749757

Alignment:
GTGGGTGCAGTGCA
---GGGGCGGGG--

Original motif Consensus sequence: TGCACTGCACCCAC

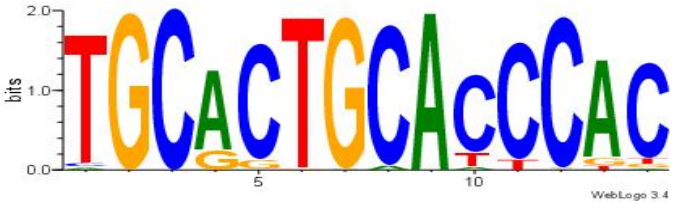

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

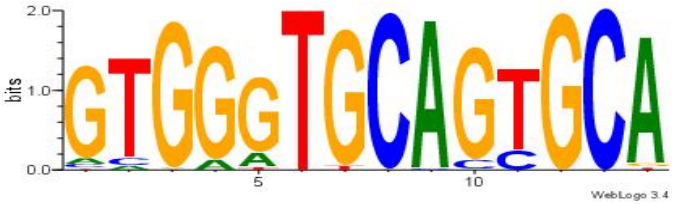

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0751018

Alignment:
CTTTCTGGGCTGGCCAAGG
-----GGGGCGGGG-----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

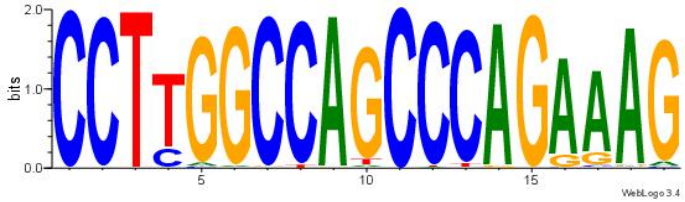

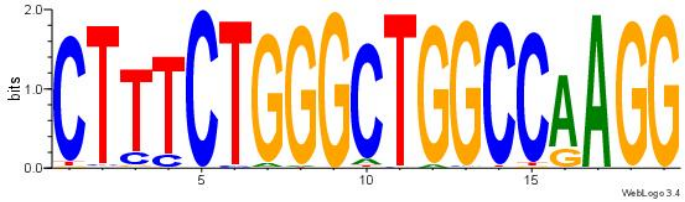

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0751165

Alignment:

```
ACTCAGCCCRCCTGCACCC
---------CCCCGCCCC-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

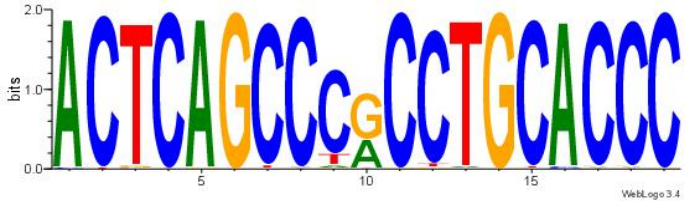

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

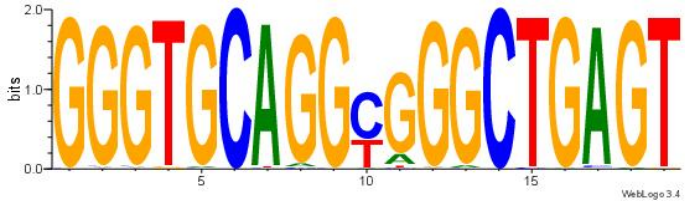

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0759882

Alignment:

```
AAATTACCCAGTCTCAGGTA
------CCCCGCCCC-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

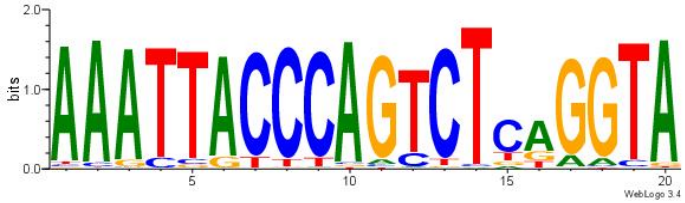

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

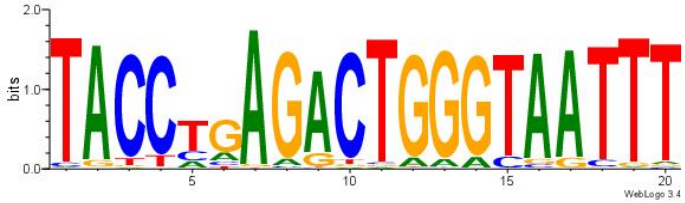

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9

Similarity score: 0.0760333

Alignment:
CTCCTGCCTCAGCCTCCCRA
-CCCCGCCCC----------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

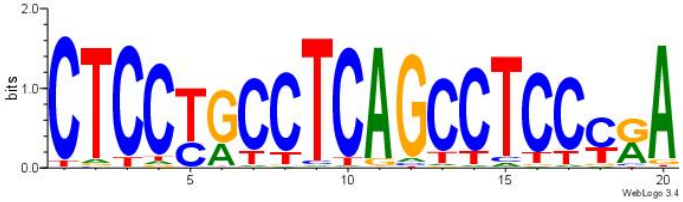

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

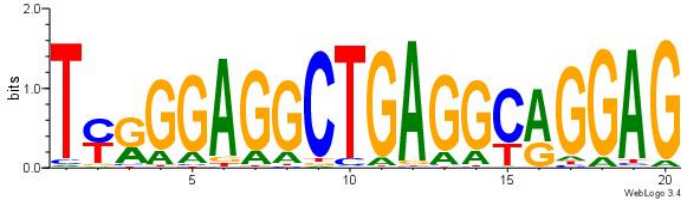

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0762014

Alignment:
CATTCTGGGGTCTGGAGGAY
-------GGGGCGGGG----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

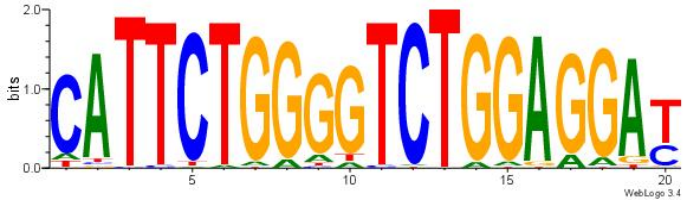

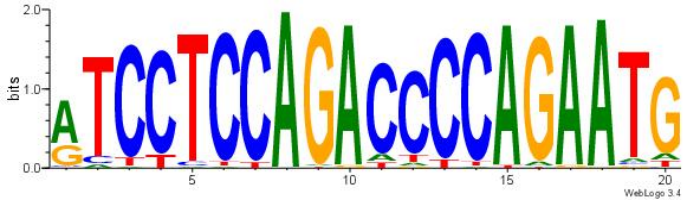

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0763387

Alignment:

```
TAATAAGGGTGTGGG
------GGGGCGGGG
```

Original motif Consensus sequence: CCCACACCCTTATTA

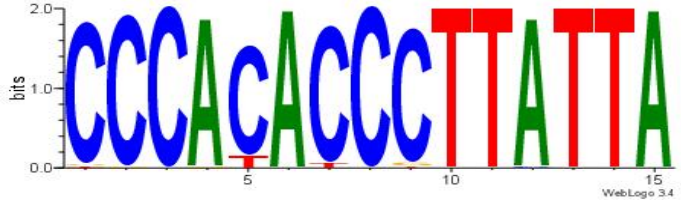

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

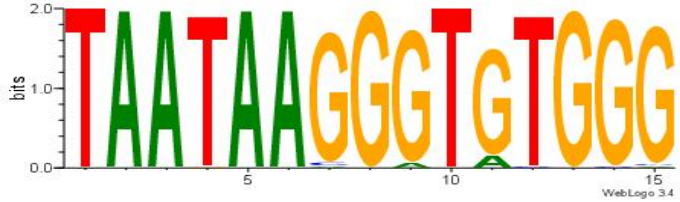

Dataset #:	1
Motif ID:	358

Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0766518

Alignment:

```
CGTCCATCACCCC
----CCCCGCCCC
```

Original motif Consensus sequence: CGTCCATCACCCC

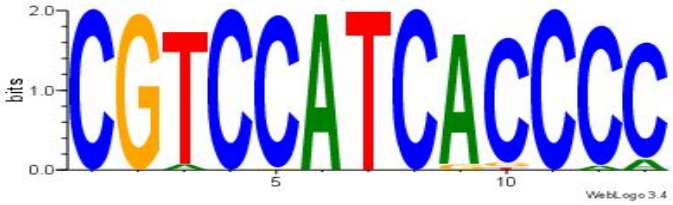

Reverse complement motif Consensus sequence: GGGGTGATGGACG

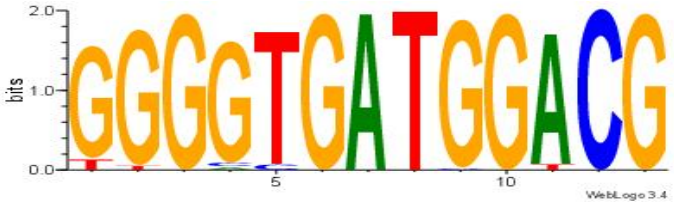

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0770698

Alignment:
TACACCCTCCGCAGCC
----CCCCGCCCC---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

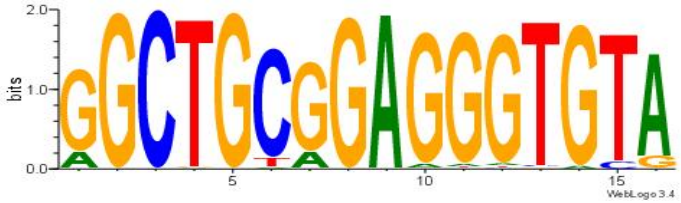

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

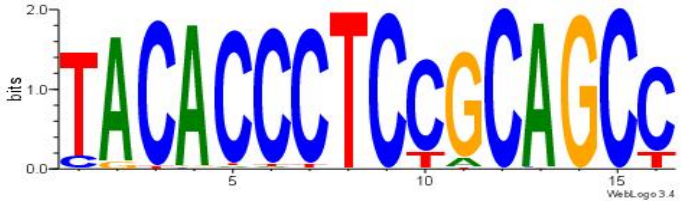

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0770919

Alignment:
CGCCCGGCCAGCCGC
------CCCCGCCCC

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

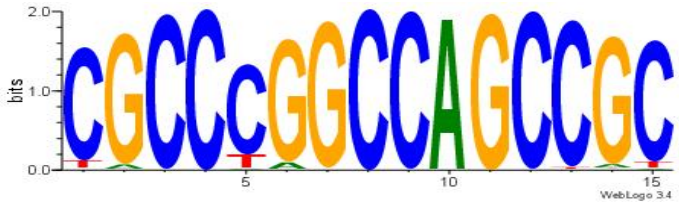

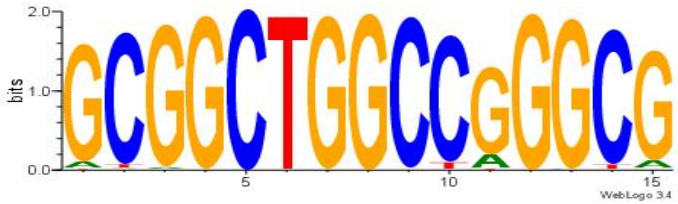

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0773782

Alignment:

```
GCTTCTGGTGAGGGC
------GGGGCGGGG
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

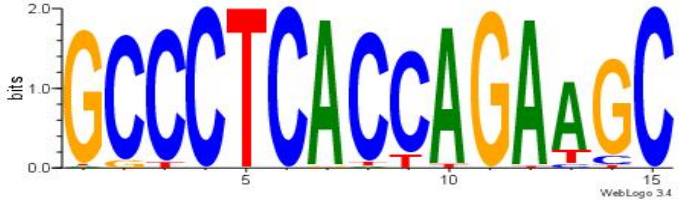

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

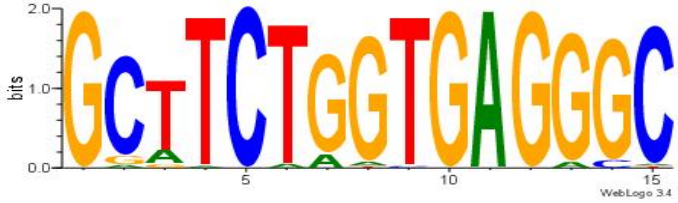

Dataset #:	1
Motif ID:	69

Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0774269

Alignment:

```
TGTAKTCCCAGCTAC
CCCCGCCCC------
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

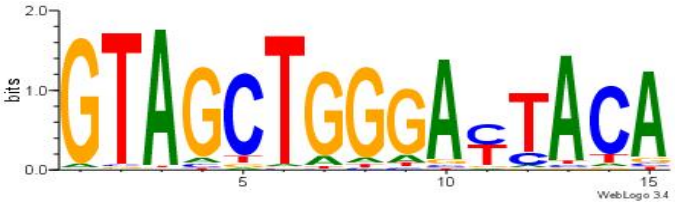

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

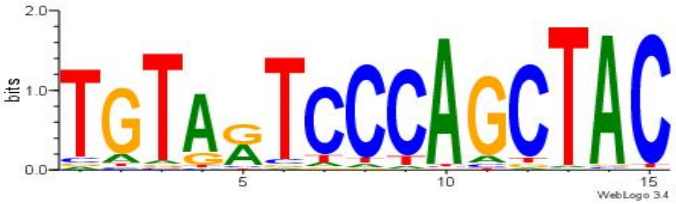

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0775055

Alignment:
CCCCGGGCAGTGAGGG
---GGGGCGGGG----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

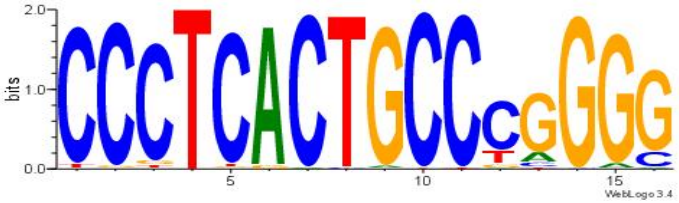

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

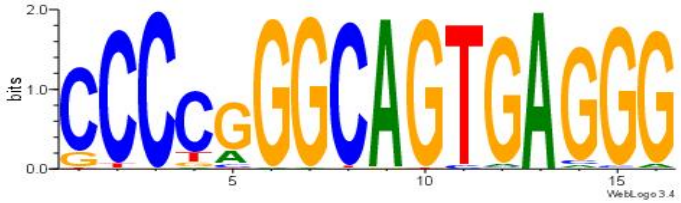

Dataset #: 1 Motif ID: 185 Motif name: Motif 185

Original motif Consensus sequence: GAAGATGAMG

Reverse complement motif Consensus sequence: CYTCATCTTC

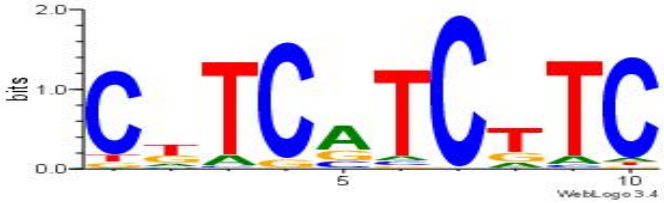

Best Matches for Significant Motif ID 185 (Highest to Lowest)

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number: 4
Number of overlap: 10
Similarity score: 0.038579

Alignment:
VCCDCCTCCKCCTCCTC
----CYTCATCTTC---

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

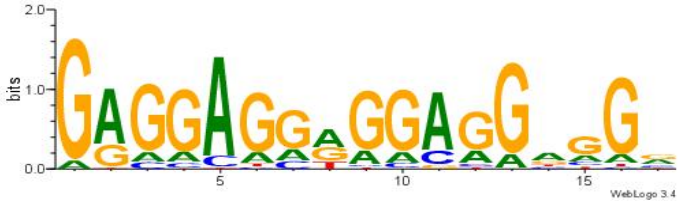

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

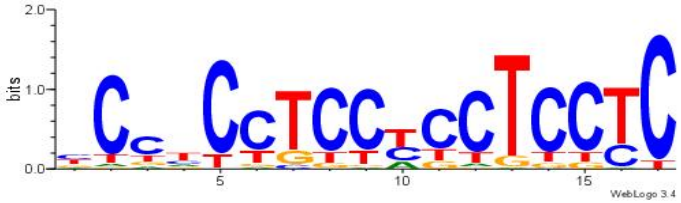

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0396628

Alignment:
TMGGGAGGCTGAGGCAGGAG
------GAAGATGAMG----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

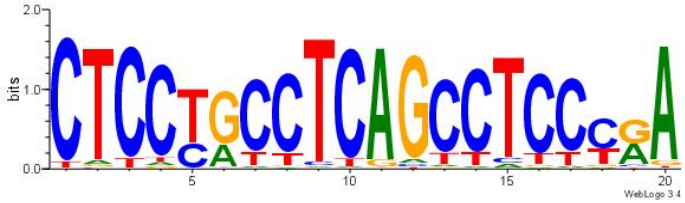

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

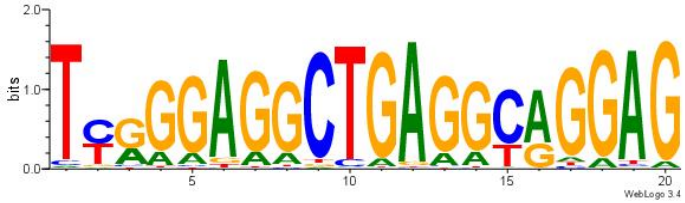

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0437873

Alignment:

```
CAGACTGCCTCCTCAA
----CYTCATCTTC--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

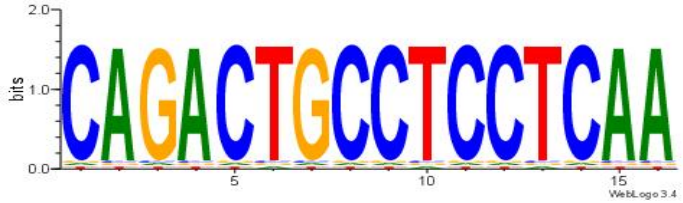

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

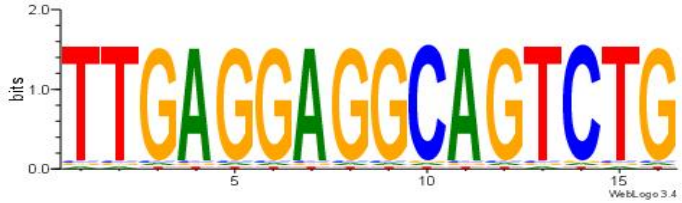

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0453186

Alignment:

```
GCCCTCACCATCC
--CYTCATCTTC-
```

Original motif Consensus sequence: GCCCTCACCATCC

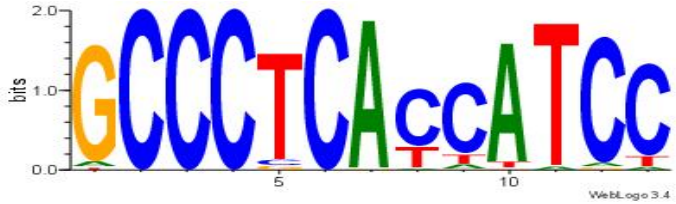

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

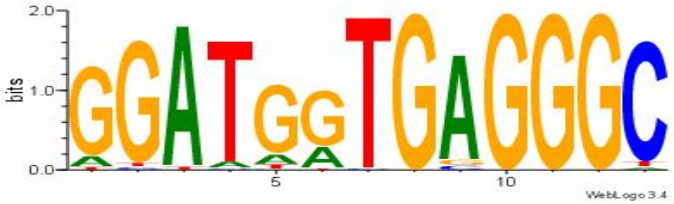

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0464636

Alignment:
GGAGGCKGAGG
GAAGATGAMG-

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0507705

Alignment:
ATGTGGAGGTGGAAGACAGT
-----GAAGATGAMG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

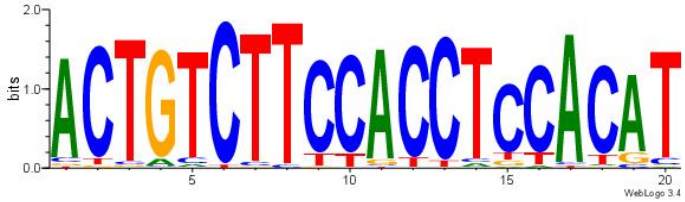

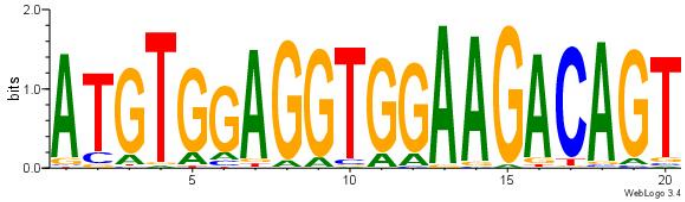

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0518527

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-CYTCATCTTC---------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

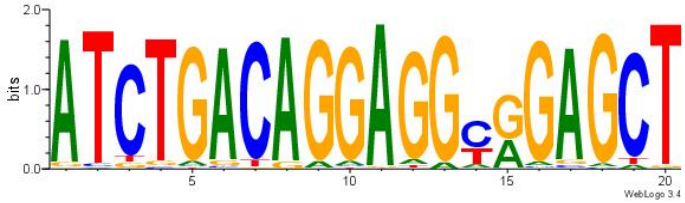

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

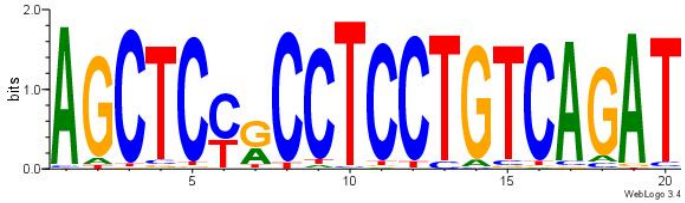

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0532594

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----GAAGATGAMG-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

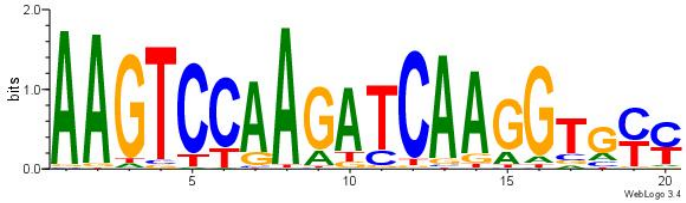

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

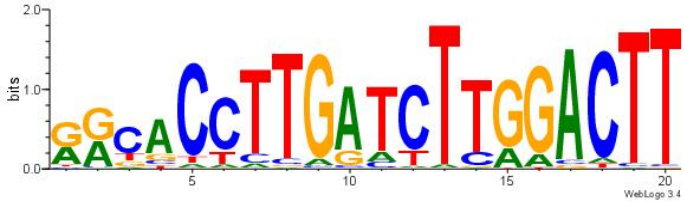

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0536127

Alignment:
MGGAAACTGAGGC
-GAAGATGAMG--

Original motif Consensus sequence: GCCTCAGTTTCCY

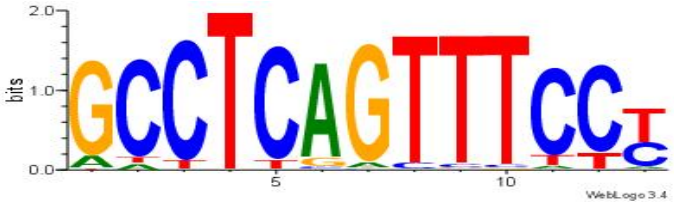

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

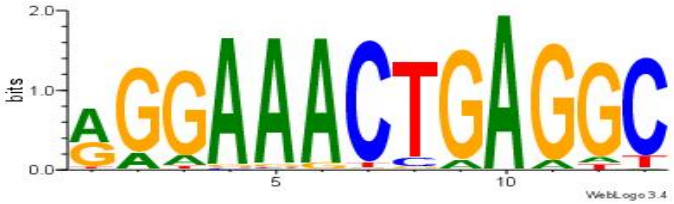

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0538191

Alignment:
CTTGCGCTTCCCRRGTGA
--------CYTCATCTTC

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

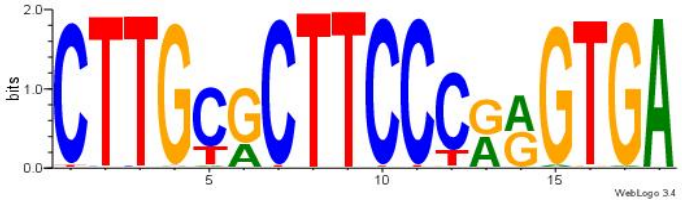

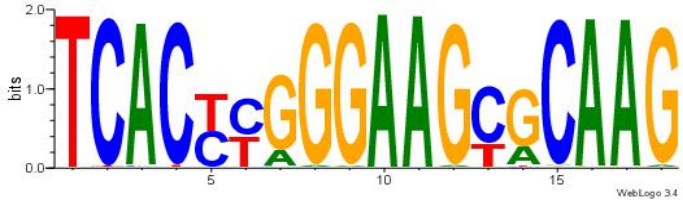

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0563454

Alignment:

```
GTTGTGAGGATTAAATGAG
----GAAGATGAMG-----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

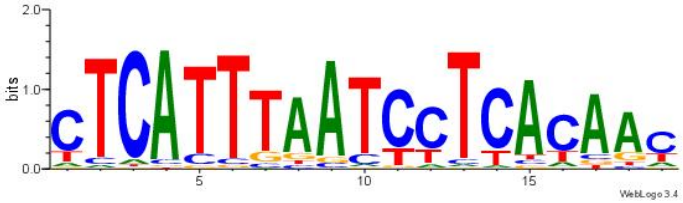

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

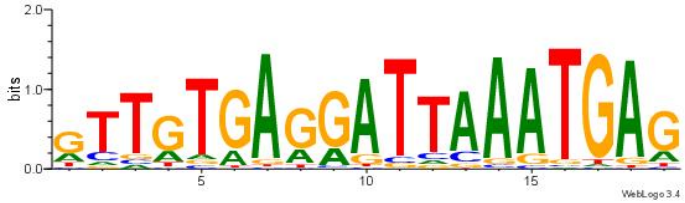

Dataset #:	1

Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0583218

Alignment:

```
GGTCCTCCTCTAT
CYTCATCTTC---
```

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

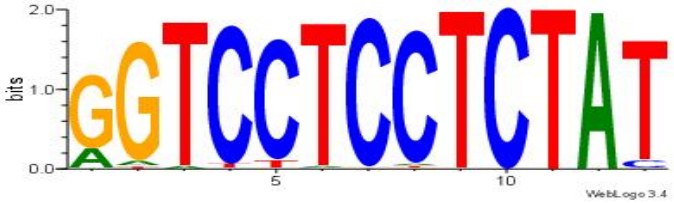

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0591049

Alignment:
AAAMAMMKMATGTTCTCACT
-----CYTCATCTTC-----

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

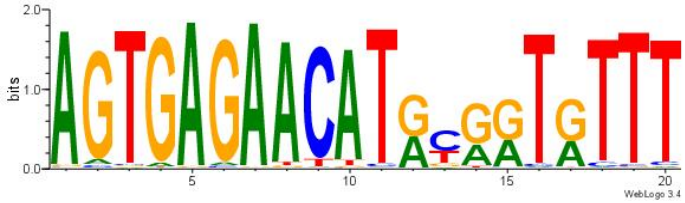

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

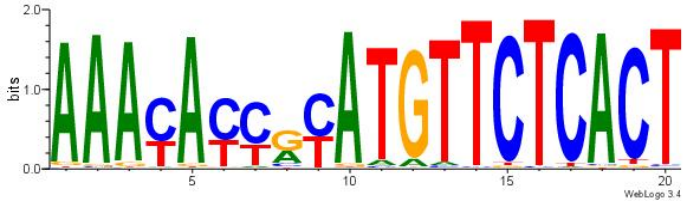

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0596264

Alignment:
ACATCMTCTGAAATCTAGG
-CYTCATCTTC--------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

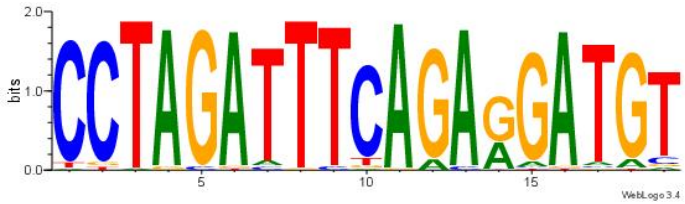

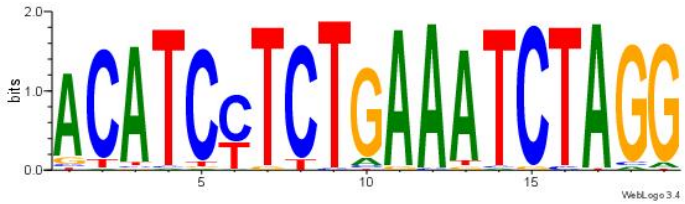

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.059834

Alignment:

```
GTGTCCCCTTCCTCCC
----CYTCATCTTC--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

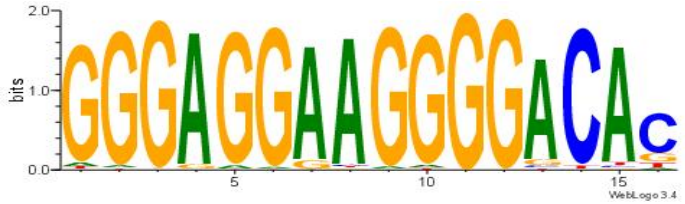

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

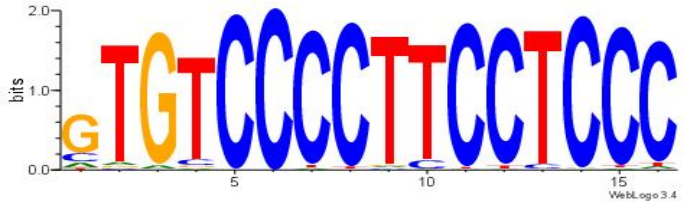

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0606298

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-GAAGATGAMG---------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

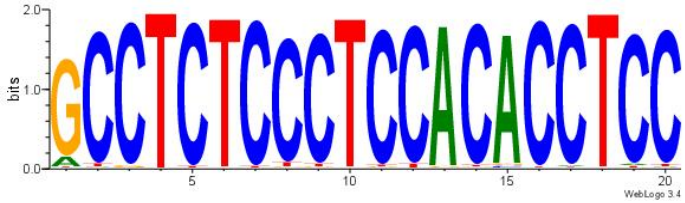

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

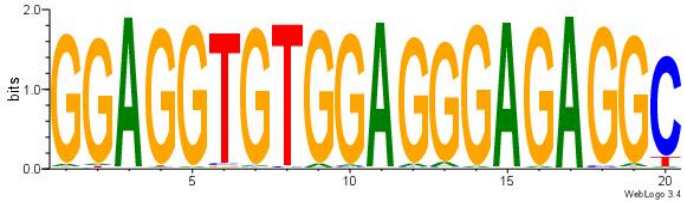

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0607821

Alignment:
CAAGATGGCGGC
GAAGATGAMG--

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

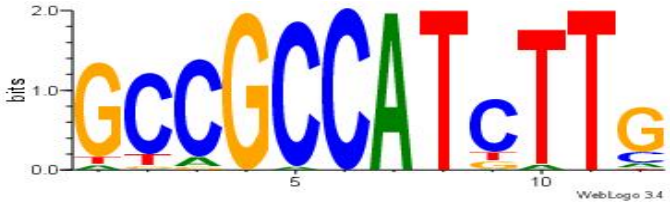

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0612431

Alignment:
AGCTGTGAGAAGAGGGCCAC
--------GAAGATGAMG--

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

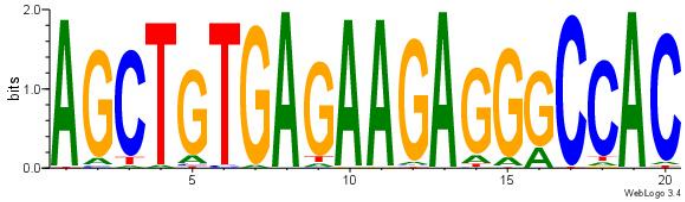

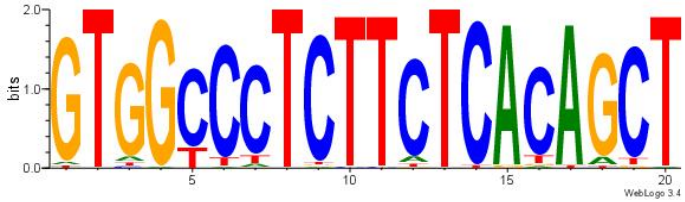

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0633434

Alignment:

```
GATCACGAGGTCAGGAG
GAAGATGAMG-------
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

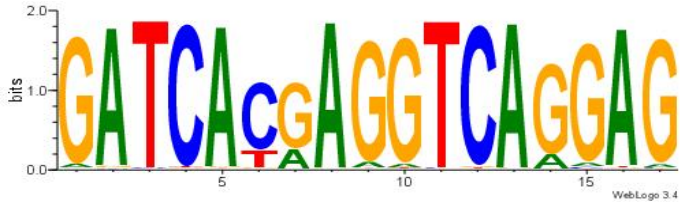

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

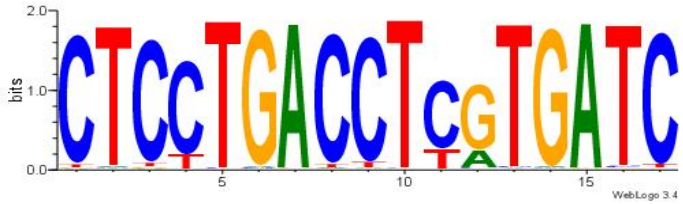

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.065156

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-------CYTCATCTTC---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

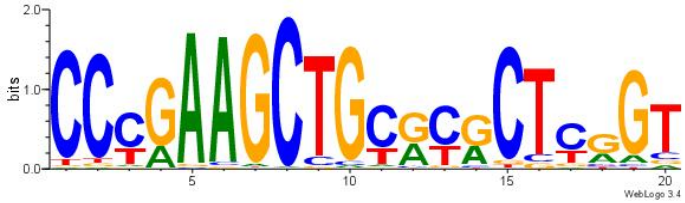

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

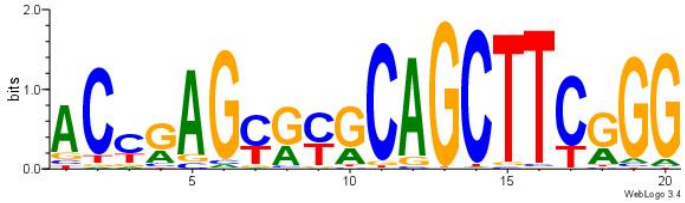

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10

Similarity score: 0.0671423

Alignment:
TAGATAATAGCTCCAGCTTT
----------CYTCATCTTC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

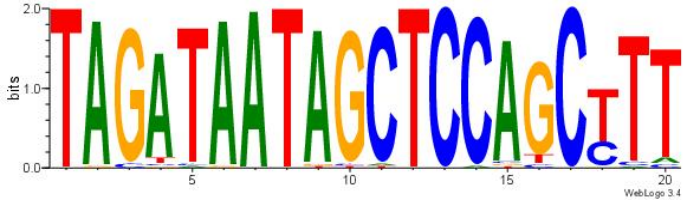

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

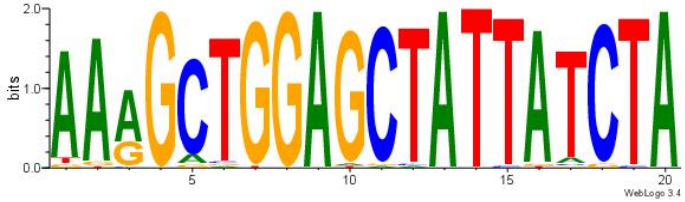

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0676331

Alignment:
CCCAAATCTCATSTTGAAT
------CYTCATCTTC---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

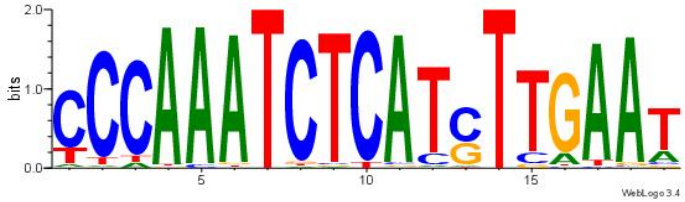

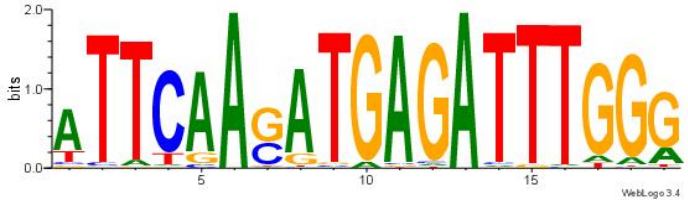

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0692947

Alignment:

```
CTCARGTGATCCTCC
-CYTCATCTTC----
```

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

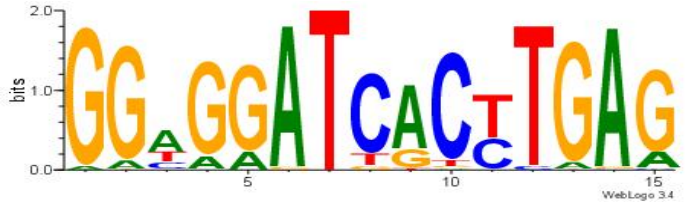

Dataset #:	1
Motif ID:	155

Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0694837

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CYTCATCTTC---------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

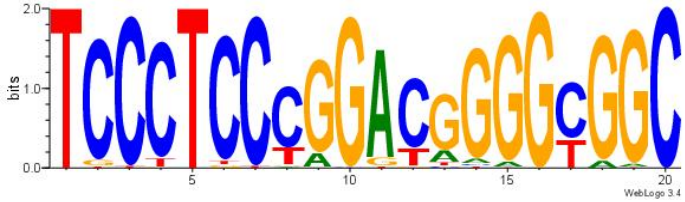

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

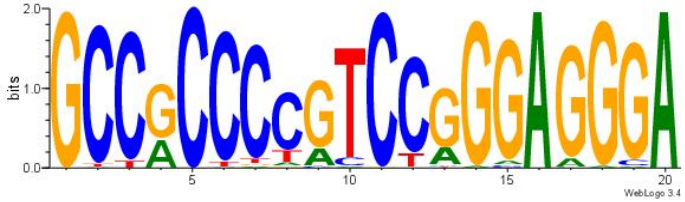

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0694887

Alignment:
GGTCAGGATCATCAATAT
---CYTCATCTTC-----

Original motif Consensus sequence: ATATTGATGATCCTGACC

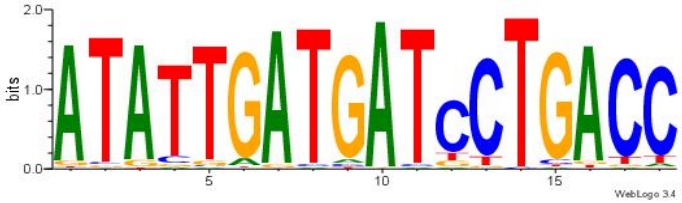

Reverse complement motif Consensus sequence:
GGTCAGGATCATCAATAT

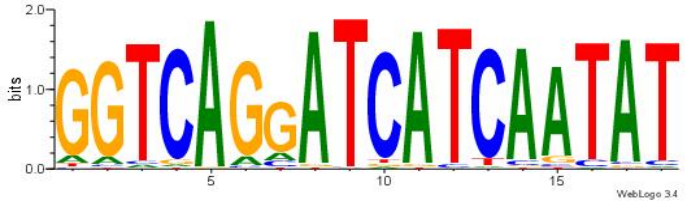

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0695071

Alignment:
GACAGGAGATTAACACTGAG
----GAAGATGAMG------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

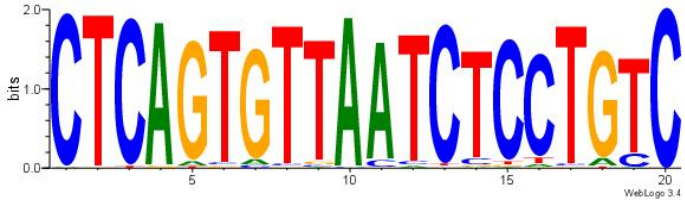

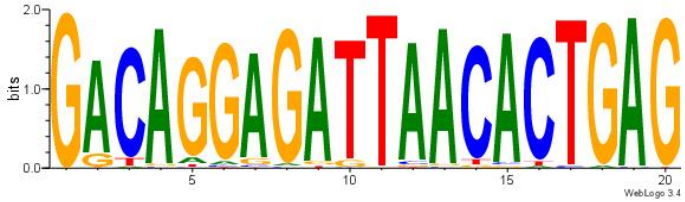

Dataset #:	1
Motif ID:	219
Motif name:	Motif 219
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0695404

Alignment:

```
CTGCAGCCTC
CYTCATCTTC
```

Original motif Consensus sequence: CTGCAGCCTC

Reverse complement motif Consensus sequence: GAGGCTGCAG

Dataset #:	1
Motif ID:	217

Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0704681

Alignment:

```
CCCTACTGTTCTCY
-CYTCATCTTC---
```

Original motif Consensus sequence: CCCTACTGTTCTCY

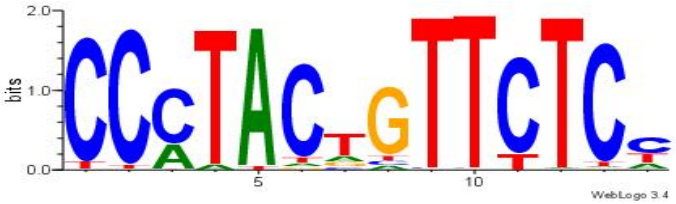

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.070768

Alignment:
CTCCTGCCTCAGCY
---CYTCATCTTC-

Original motif Consensus sequence: CTCCTGCCTCAGCY

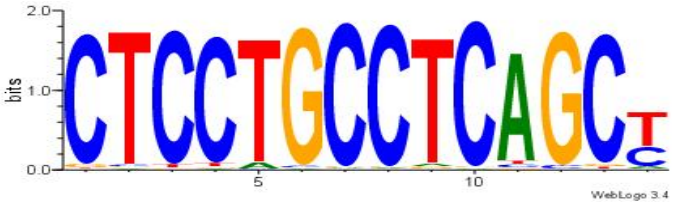

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

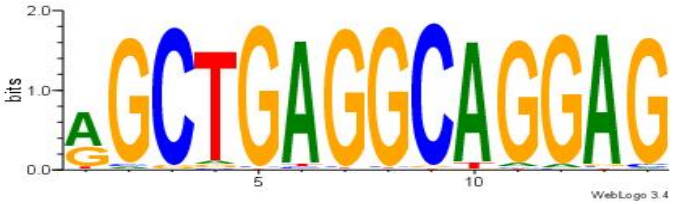

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0710858

Alignment:
GCCGGGRAGAGGCGCTCCT
----GAAGATGAMG-----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

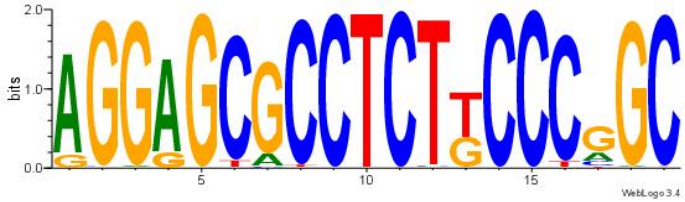

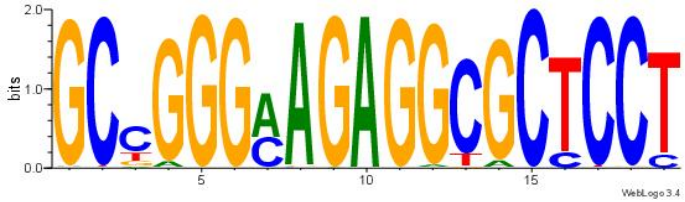

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.071578

Alignment:

```
CGGCTTCATTCTTGAAGTC
---CYTCATCTTC------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

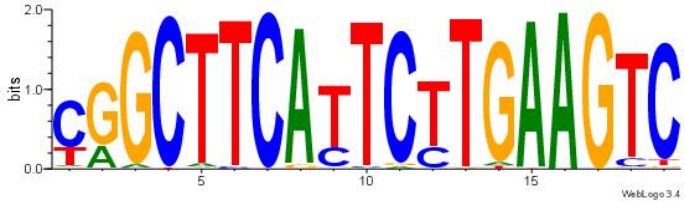

Dataset #: 1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0719294

Alignment:

```
CGCCCATCGTCTGGGATGT
-CYTCATCTTC--------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

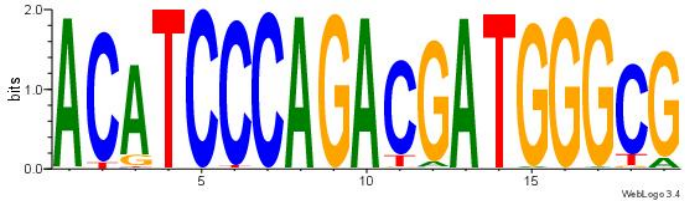

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

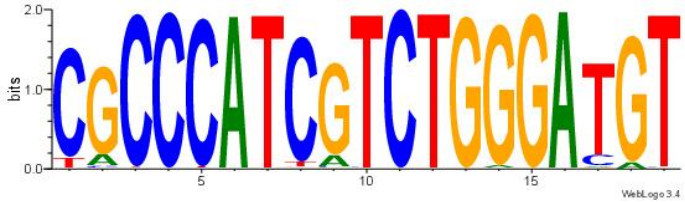

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0720917

Alignment:
TGGAGGTTSTAG
GAAGATGAMG--

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

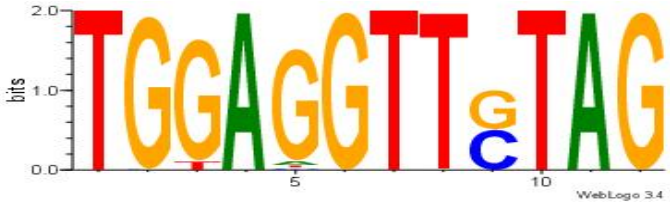

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0721263

Alignment:
GGAGCCGGCTCCCTCAGCTT
--------CYTCATCTTC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

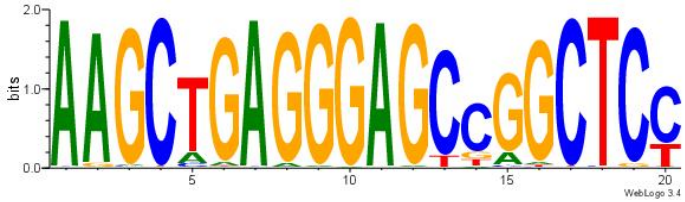

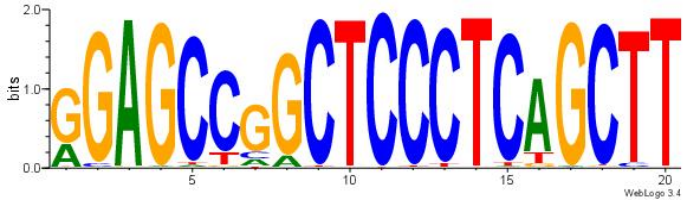

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0725489

Alignment:

```
ATGGAATAYTATTCAGCCAT
---GAAGATGAMG-------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

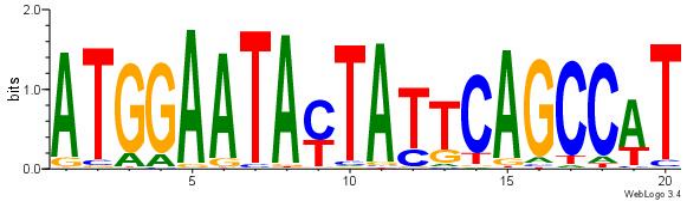

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

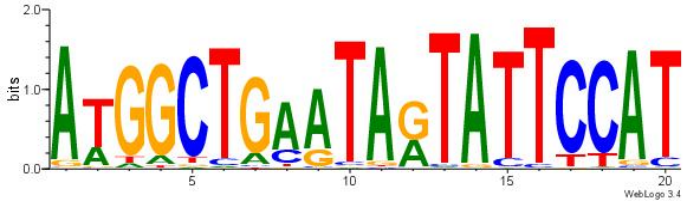

Dataset #: 1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0731648

Alignment:

```
TACACCCTCCGCAGCC
-----CYTCATCTTC-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

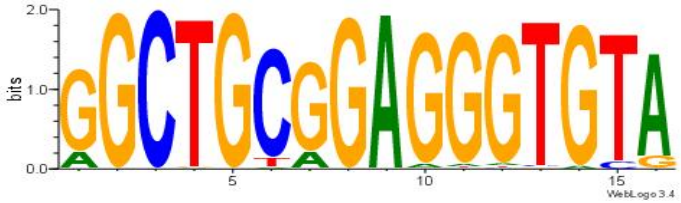

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

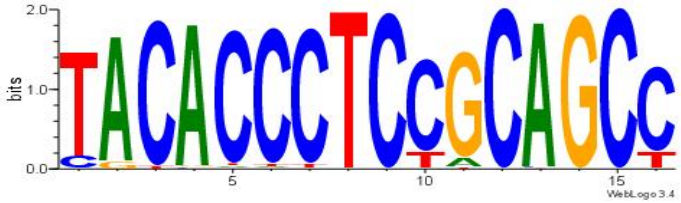

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0734635

Alignment:
GAGSTTGCAGTGAGC
-----GAAGATGAMG

Original motif Consensus sequence: GCTCACTGCAASCTC

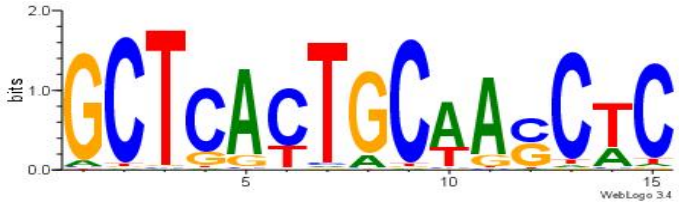

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

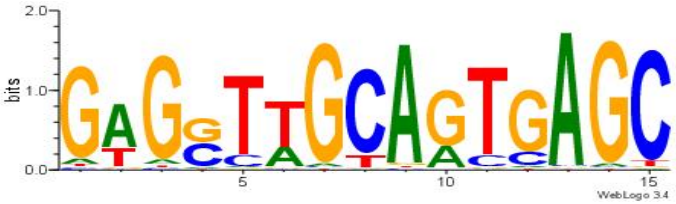

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0739556

Alignment:
GGCTGAGGAGTGCG
---GAAGATGAMG-

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTG

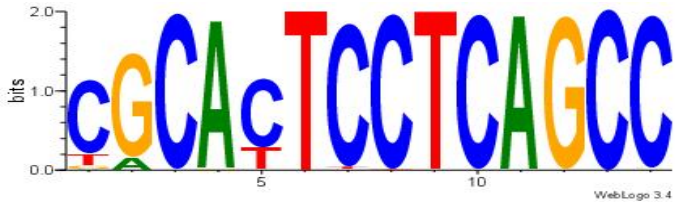

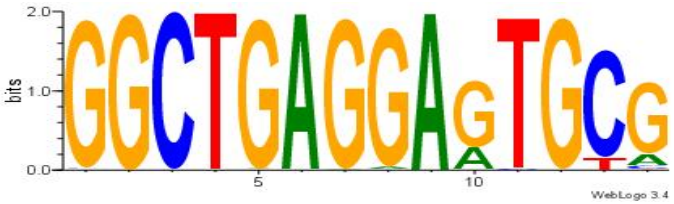

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0744258

Alignment:

```
TGCTGCTGCTGC
--CYTCATCTTC
```

Original motif Consensus sequence: GCAGCAGCAGCA

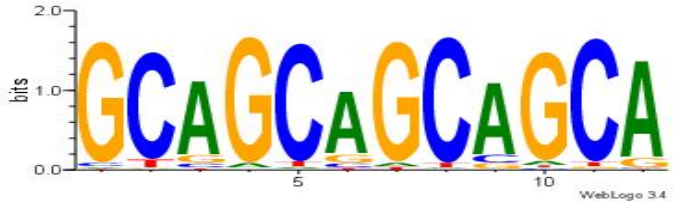

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

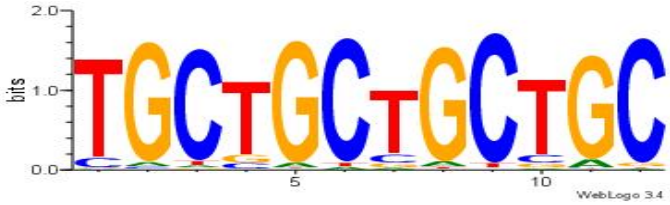

Dataset #:	1
Motif ID:	133

Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0749409

Alignment:

```
TGGGGACMCAG
GAAGATGAMG-
```

Original motif Consensus sequence: CTGYGTCCCCA

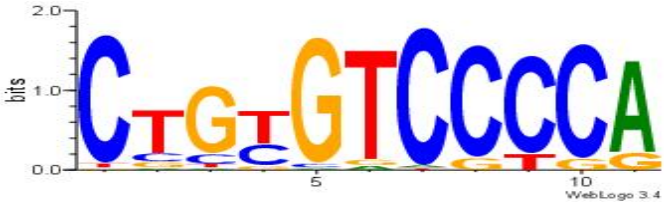

Reverse complement motif Consensus sequence: TGGGGACMCAG

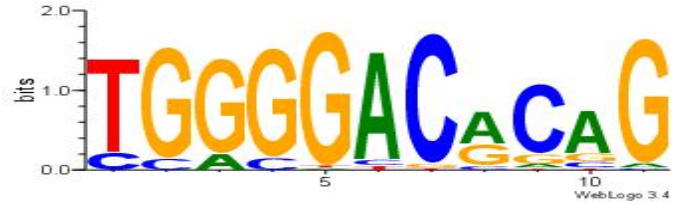

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0752241

Alignment:
GACCAMGAACCCA
GAAGATGAMG---

Original motif Consensus sequence: GACCAMGAACCCA

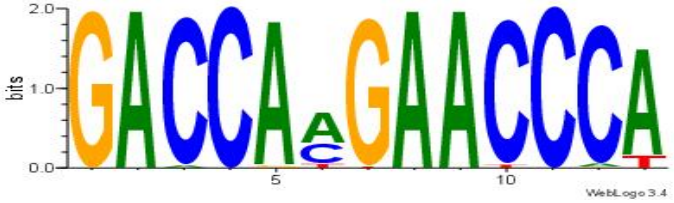

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

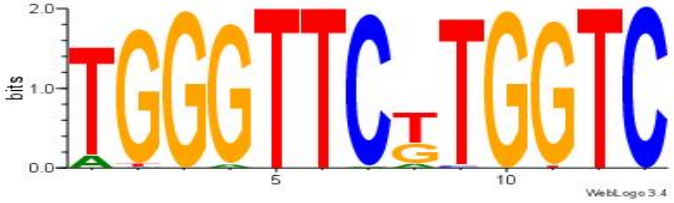

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0762295

Alignment:
GTCTTTATCAGC
--CYTCATCTTC

Original motif Consensus sequence: GCTGATAAAGAC

Reverse complement motif Consensus sequence: GTCTTTATCAGC

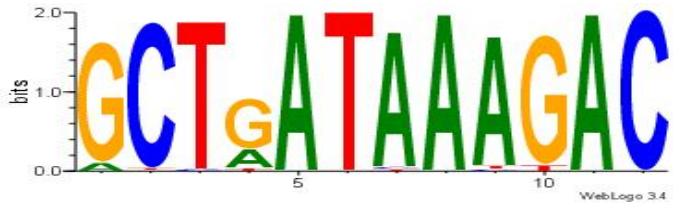

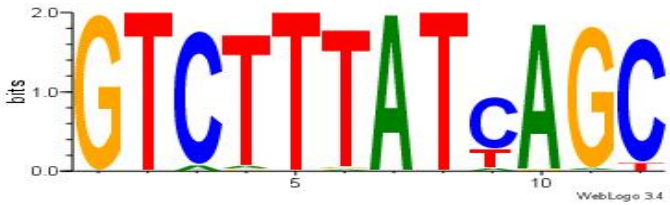

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0768235

Alignment:

```
GGTTCATCTCACTAGGGAGT
---------CYTCATCTTC-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

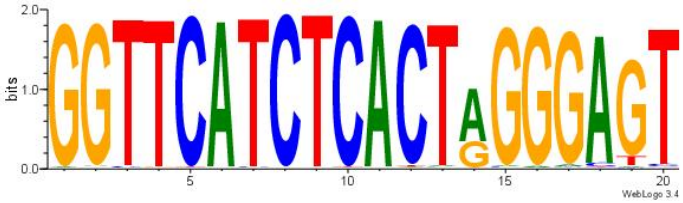

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

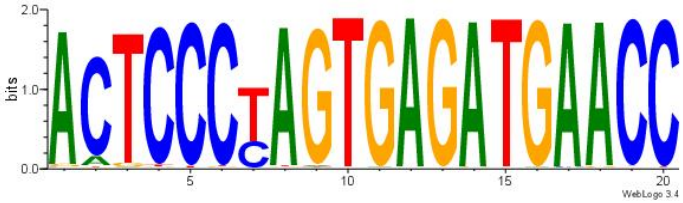

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0769695

Alignment:

```
GCAAAKGACATGATYTCATT
GAAGATGAMG----------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

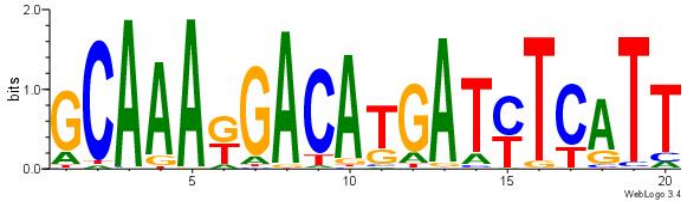

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

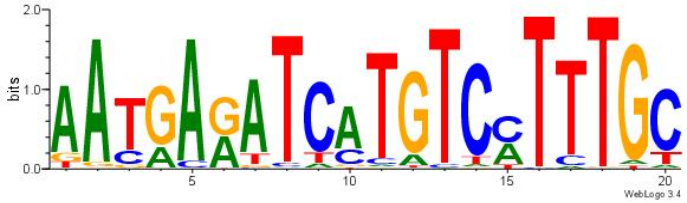

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0775926

Alignment:
GMTTAGCTCCCACTTA
------CYTCATCTTC

Original motif Consensus sequence: TAAGTGGGAGCTAARC

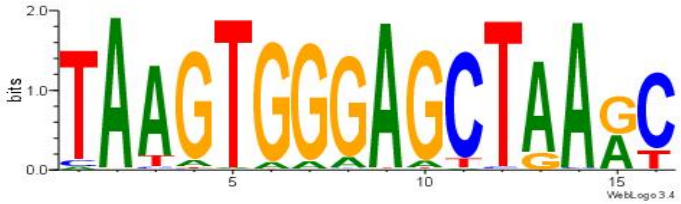

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

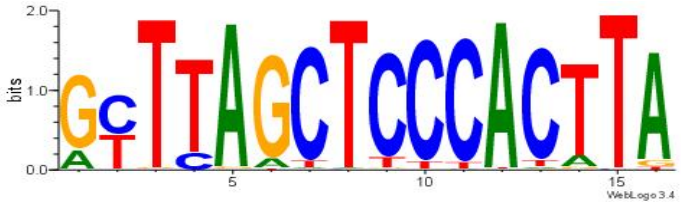

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.077669

Alignment:
CTTGGGTGGTCGATGGGAC
----GAAGATGAMG-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

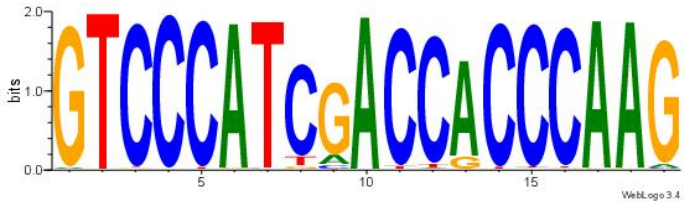

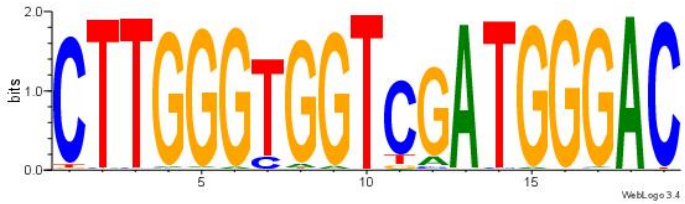

Dataset #:	1
Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0778626

Alignment:

```
GAGAACGTAG
GAAGATGAMG
```

Original motif Consensus sequence: CTACGTTCTC

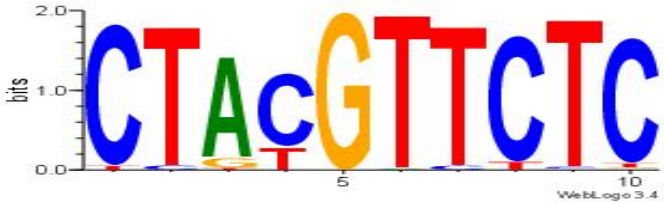

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #:	1
Motif ID:	129

Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.077863

Alignment:

```
TGAGKCAATTAAACCTCTT
-------CYTCATCTTC--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

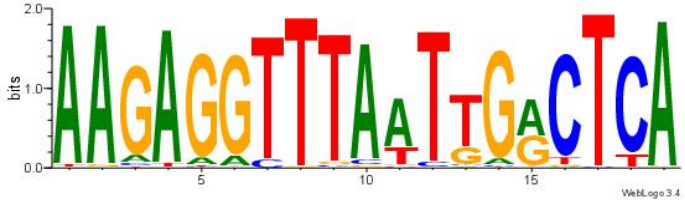

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

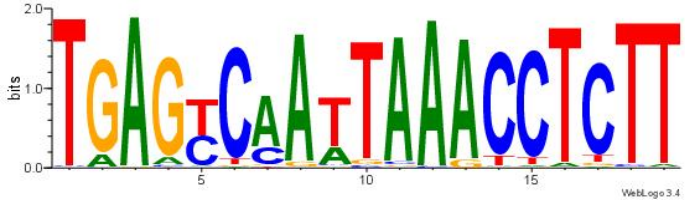

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.077877

Alignment:
AATTAAAAGACACAGACTG
-----GAAGATGAMG----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

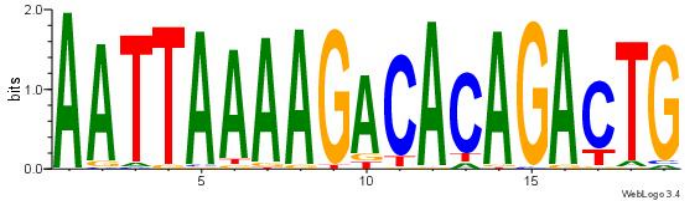

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

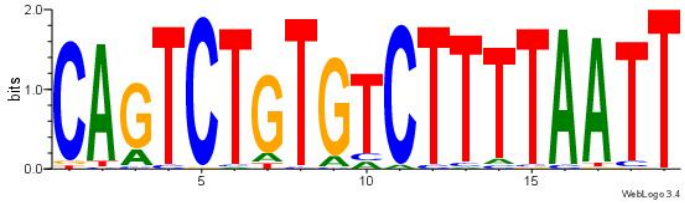

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0779132

Alignment:
CAAGTTGACACATAAAATTA
GAAGATGAMG----------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

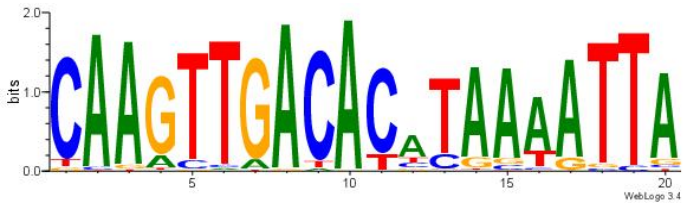

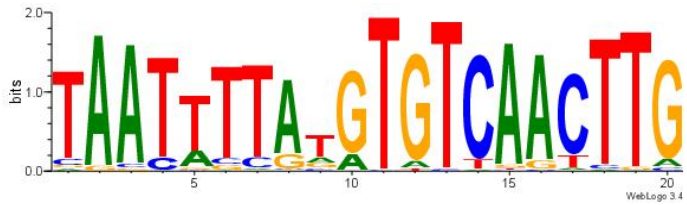

Dataset #: 1 **Motif ID: 338** **Motif name: Motif 338**

Original motif Consensus sequence: CTGCAGCC

Reverse complement motif Consensus sequence: GGCTGCAG

Best Matches for Significant Motif ID 338 (Highest to Lowest)

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0130204

Alignment:

```
CATGGCGGGCTGCAGGTC
---GGCTGCAG-------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

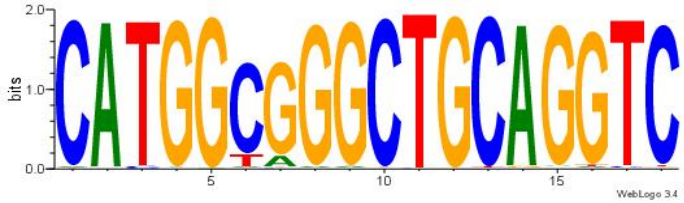

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

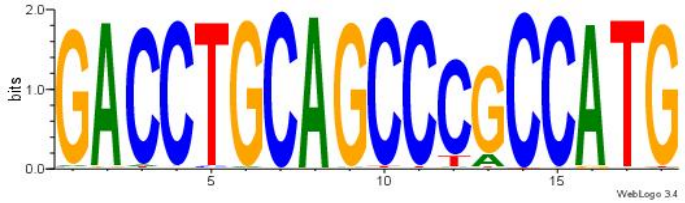

Dataset #:	1
Motif ID:	219
Motif name:	Motif 219
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0154581

Alignment:

```
CTGCAGCCTC
CTGCAGCC--
```

Original motif Consensus sequence: CTGCAGCCTC

Reverse complement motif Consensus sequence: GAGGCTGCAG

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0406936

Alignment:

```
GGGTGCAGGMGGGCTGAGT
GGCTGCAG-----------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

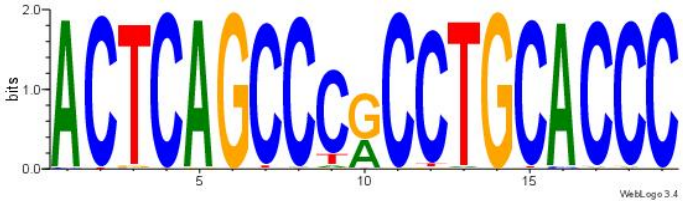

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

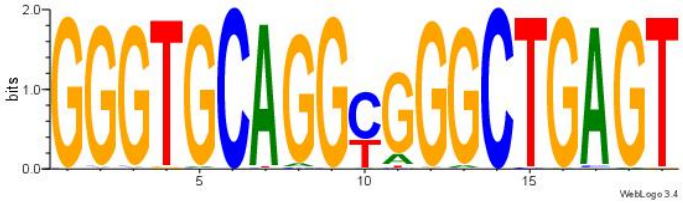

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9

Number of overlap: 8
Similarity score: 0.0413146

Alignment:
TACACCCTCCGCAGCC
CTGCAGCC--------

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

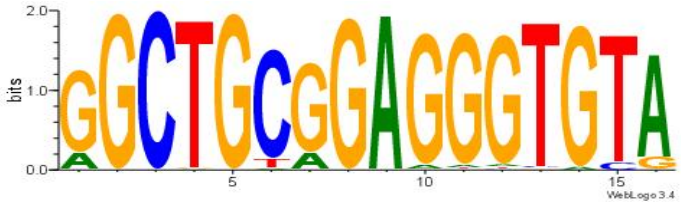

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

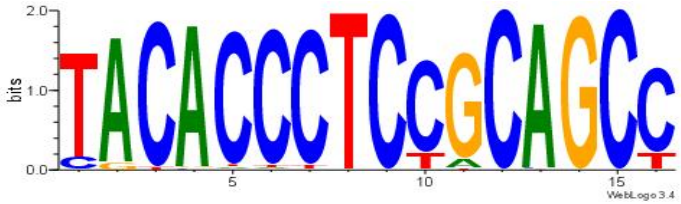

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0415555

Alignment:
GTGGGTGCAGTGCA
--GGCTGCAG----

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

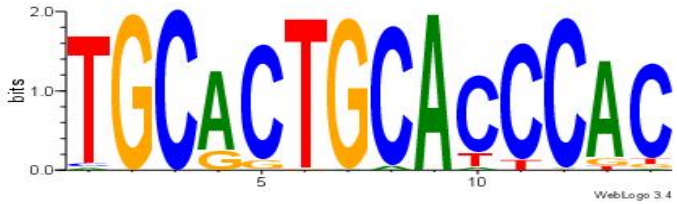

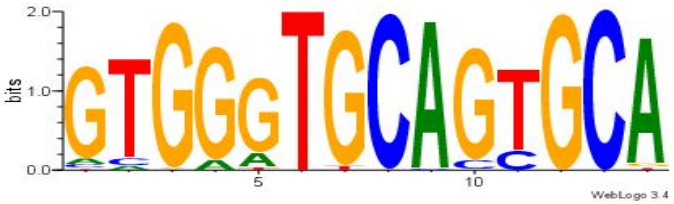

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0462509

Alignment:

```
CATCTGGAGCCCCA
---CTGCAGCC---
```

Original motif Consensus sequence: CATCTGGAGCCCCA

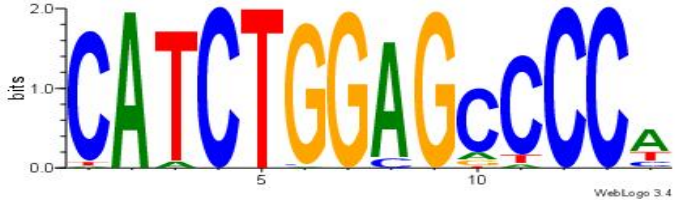

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

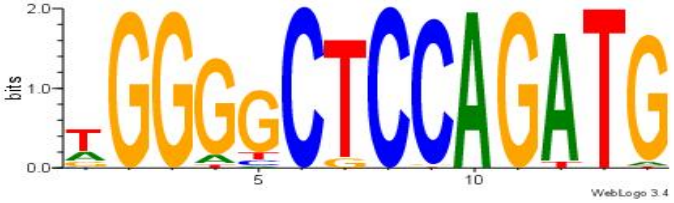

Dataset #:	1
Motif ID:	191

Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0527637

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-GGCTGCAG----------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

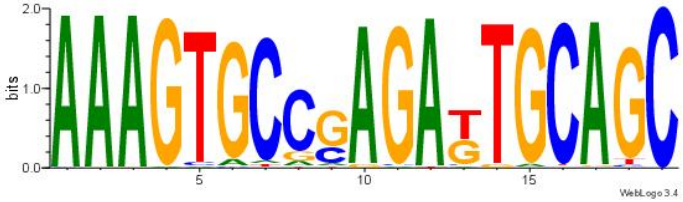

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

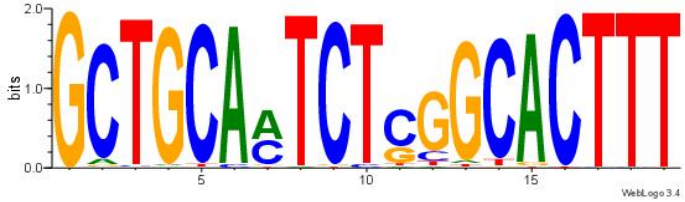

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0566354

Alignment:
TGHCCTGCKCCCACTGTCT
-------CTGCAGCC----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

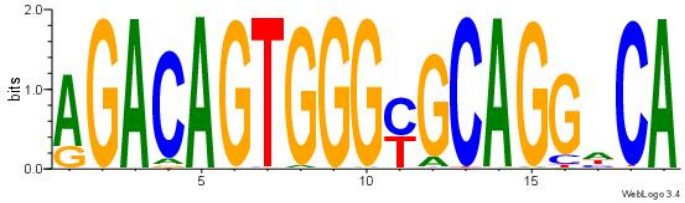

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

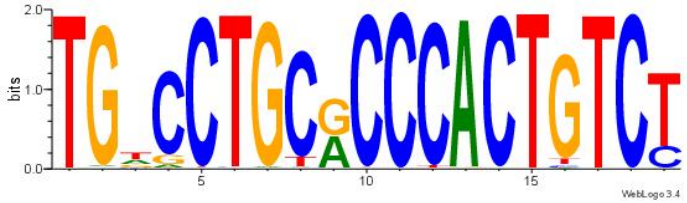

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0568181

Alignment:
CAGACTGCCTCCTCAA
----CTGCAGCC----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

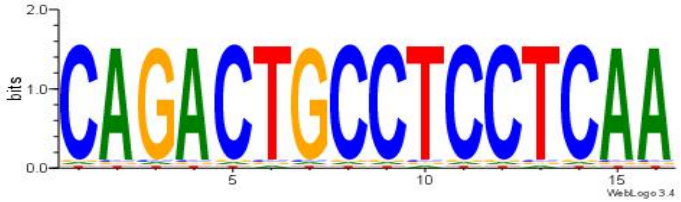

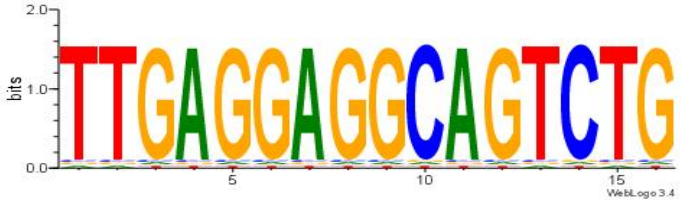

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0602617

Alignment:

```
TAGATAATAGCTCCAGCTTT
----------CTGCAGCC--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

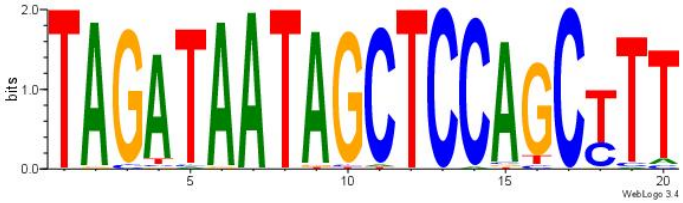

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

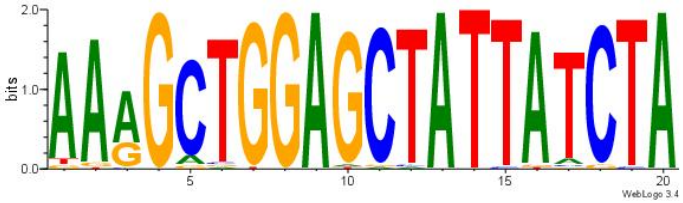

Dataset #:	1

Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0605519

Alignment:

```
GCTCACTGCAASCTC
-----CTGCAGCC--
```

Original motif Consensus sequence: GCTCACTGCAASCTC

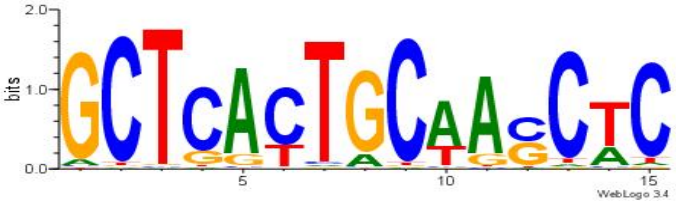

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

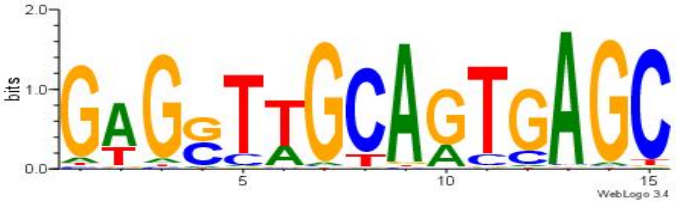

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0616968

Alignment:
AGGCGGCTGGGAGG
-----GGCTGCAG-

Original motif Consensus sequence: AGGCGGCTGGGAGG

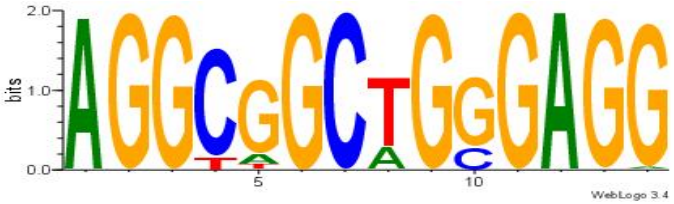

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0617865

Alignment:
AGCCTCCAGAACTGT
------GGCTGCAG-

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

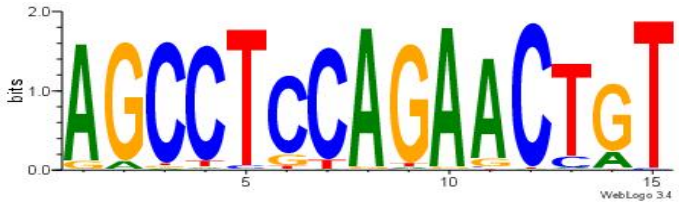

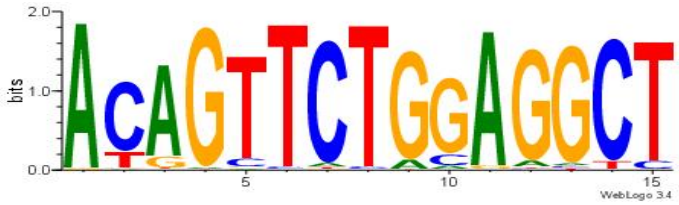

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0621423

Alignment:

```
TGCTGCTGCTGC
--CTGCAGCC--
```

Original motif Consensus sequence: GCAGCAGCAGCA

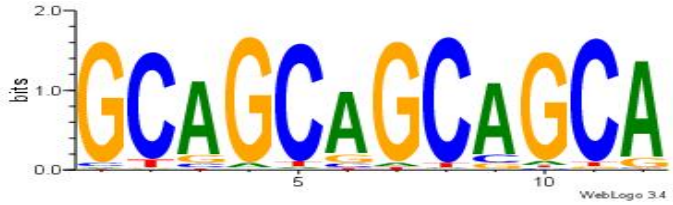

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

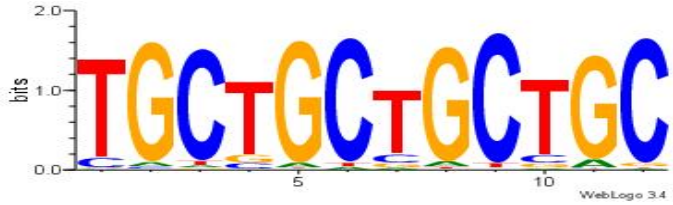

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0646933

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-GGCTGCAG-----------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

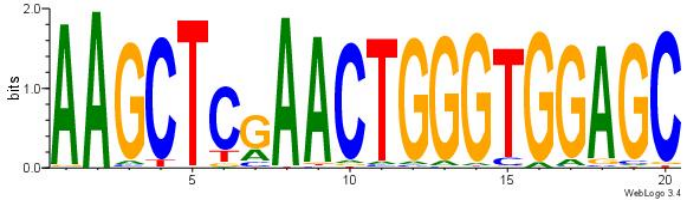

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

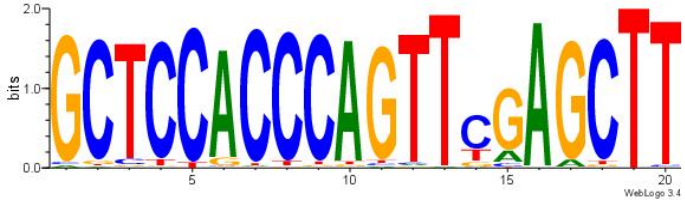

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0647785

Alignment:
TTTGGTGCACCCATCA
----CTGCAGCC----

Original motif Consensus sequence: TGATGGGTGCACCAAA

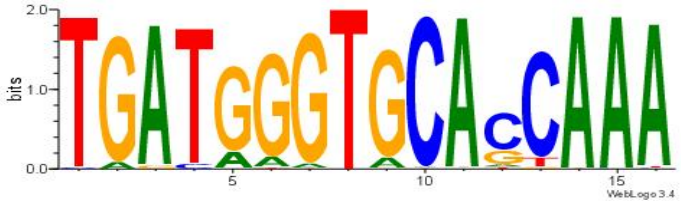

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

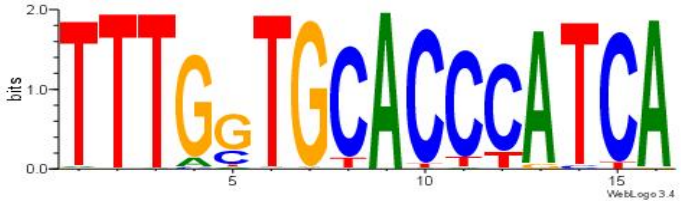

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0648227

Alignment:
MGCTGAGGCAGGAG
------GGCTGCAG

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

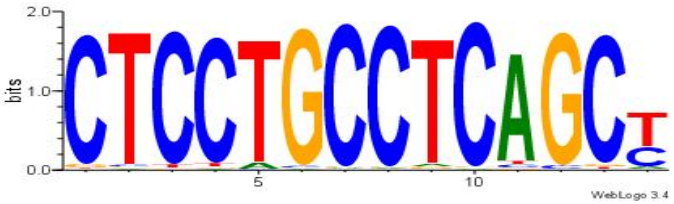

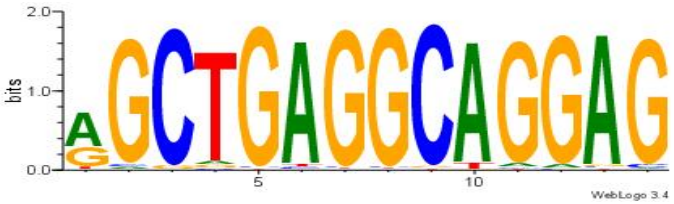

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0649018

Alignment:

```
GCGGCGGCGGCG
--GGCTGCAG--
```

Original motif Consensus sequence: CGCCGCCGCCGC

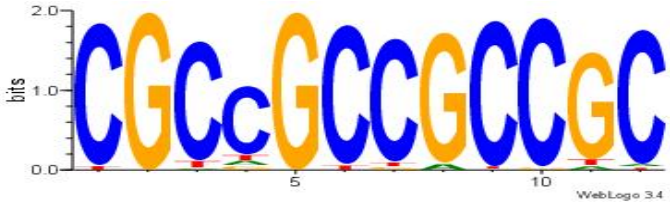

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

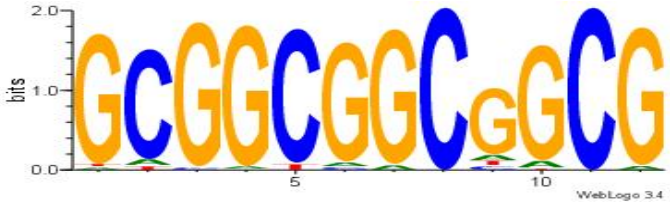

Dataset #:	1
Motif ID:	229

Motif name:	Motif 229
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0663263

Alignment:

```
GCCTTGCTGCCGC
-GGCTGCAG----
```

Original motif Consensus sequence: GCCTTGCTGCCGC

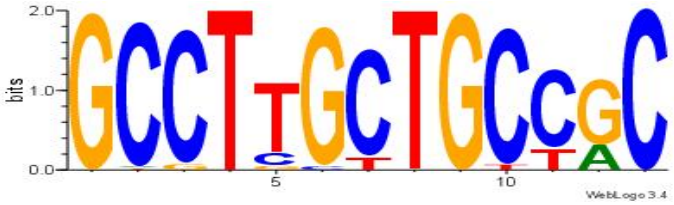

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

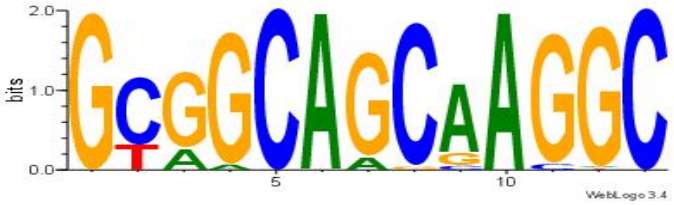

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0666477

Alignment:
TGCTGGAGGTCCACTCCAGA
GGCTGCAG----------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

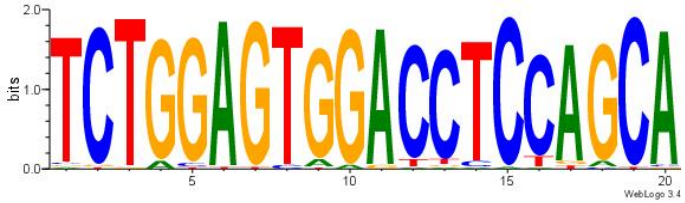

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

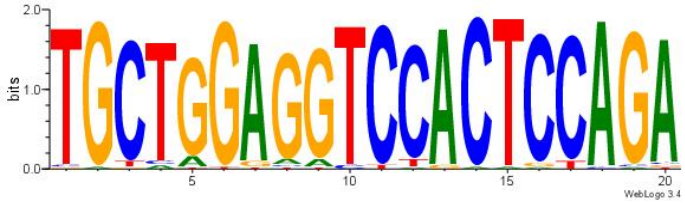

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0670361

Alignment:
CGGCTTCATTCTTGAAGTC
-GGCTGCAG----------

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

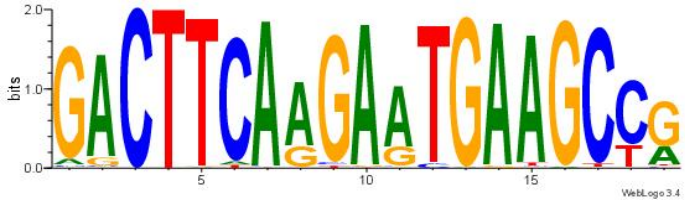

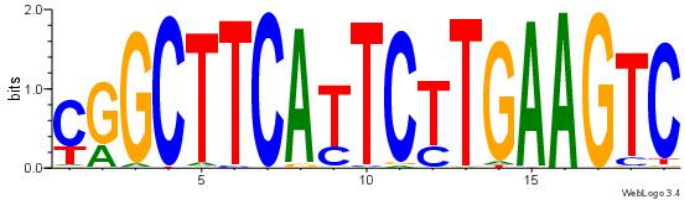

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.06775

Alignment:

```
ATGGAATAYTATTCAGCCAT
----------CTGCAGCC--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

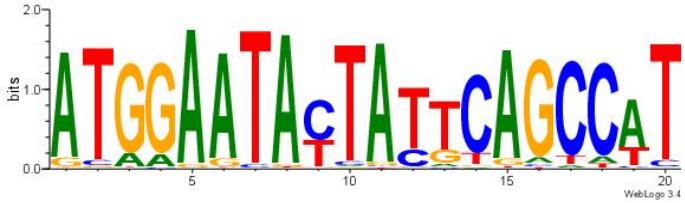

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

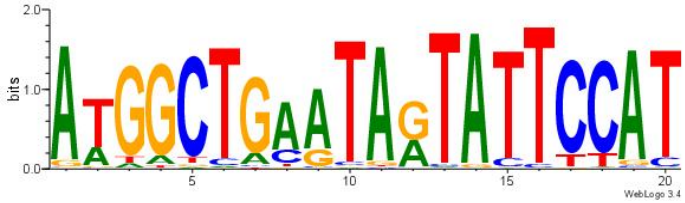

Dataset #: 1

Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0679504

Alignment:

```
CACTGCACTCCAGC
--CTGCAGCC----
```

Original motif Consensus sequence: CACTGCACTCCAGC

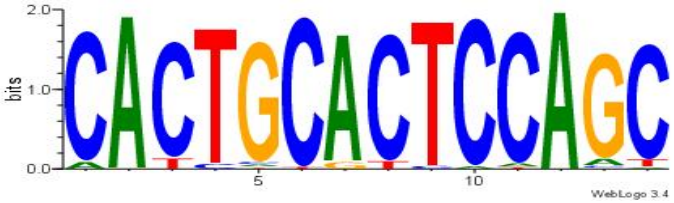

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

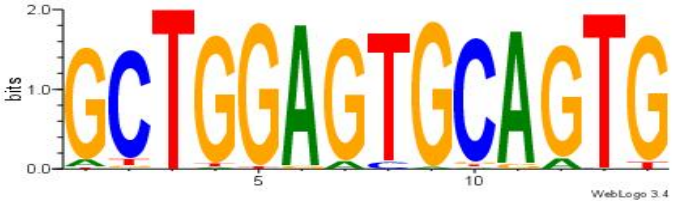

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0680724

Alignment:
GCTGGAGTGCAGTGGCRYGA
--------GGCTGCAG----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

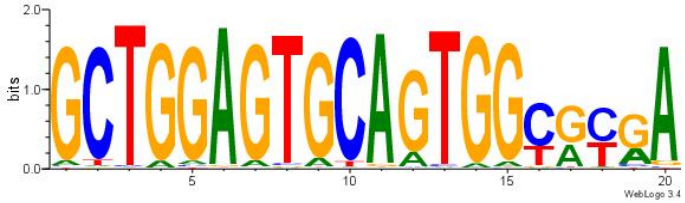

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

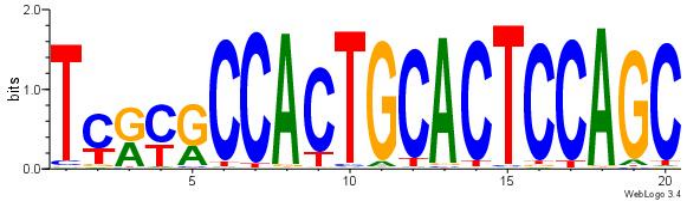

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0682344

Alignment:
CTGGGCTCCTGAGTCTGGTG
---------GGCTGCAG---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

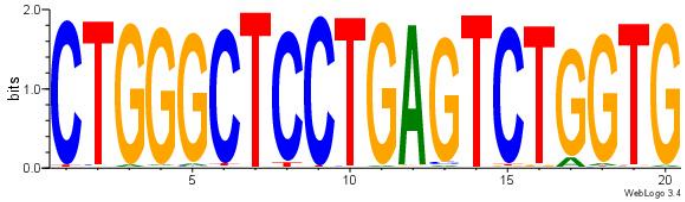

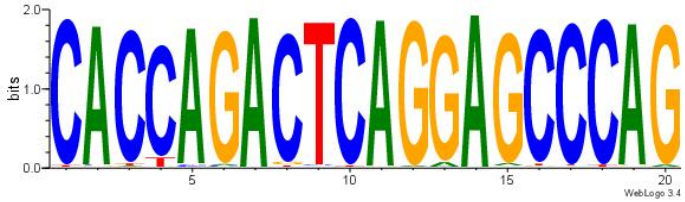

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0685545

Alignment:

```
GCCRGCCCTGCYGGCC
-------CTGCAGCC-
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

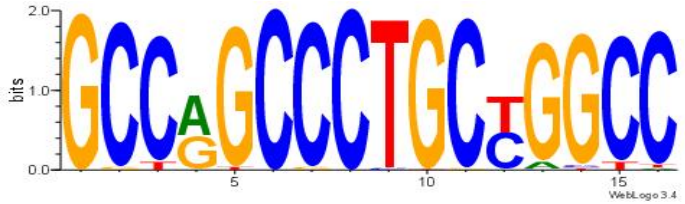

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

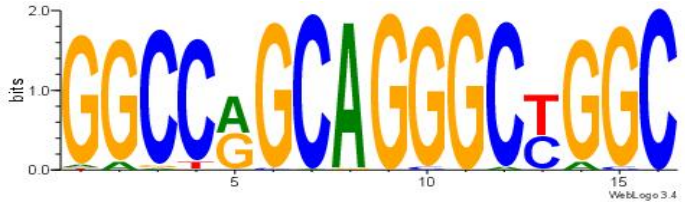

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0689007

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-CTGCAGCC-----------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

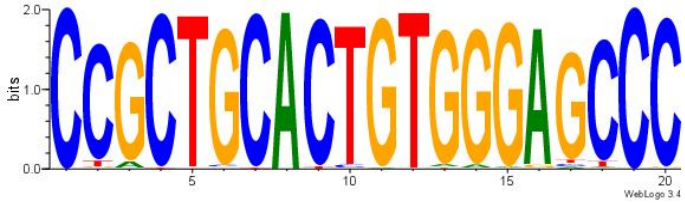

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

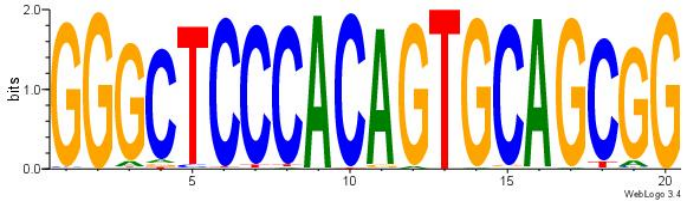

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8

Similarity score: 0.0691323

Alignment:
GGATCCACTGGGTGAAGCCA
----------CTGCAGCC-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

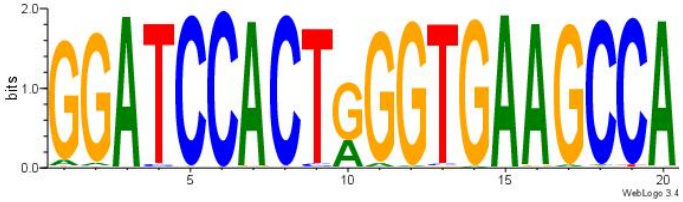

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

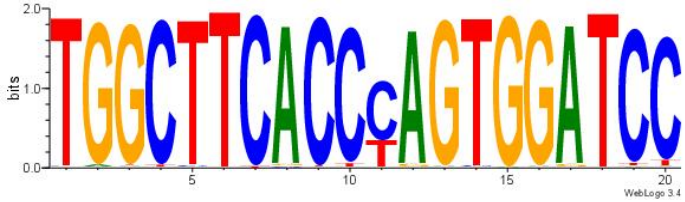

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.0693007

Alignment:
CTCCTGCCTCAGCCTCCCRA
------CTGCAGCC------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

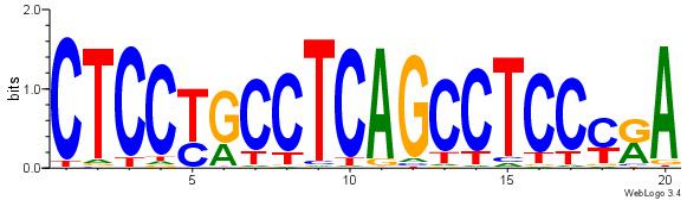

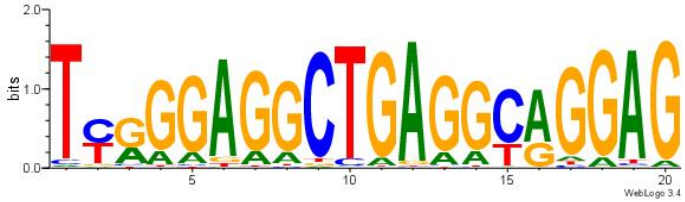

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0707832

Alignment:

```
CATTCTGGGGTCTGGAGGAY
---GGCTGCAG---------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

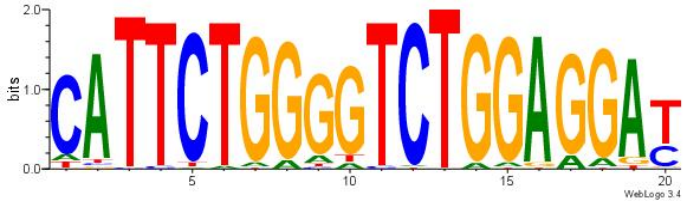

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

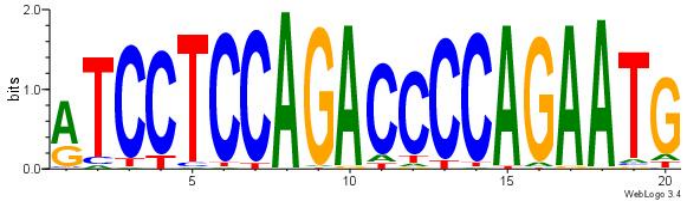

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0709319

Alignment:

```
ATACAATGGGGGTACAGRC
--GGCTGCAG---------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

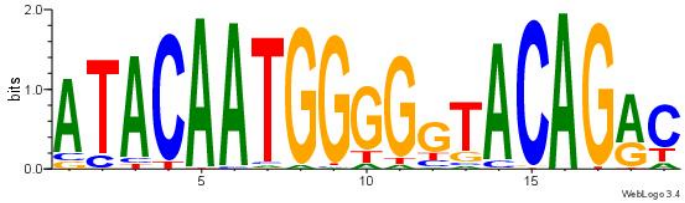

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

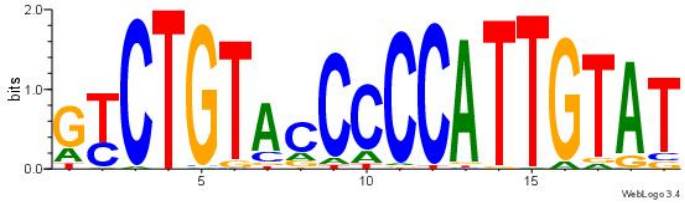

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8

Similarity score: 0.0713233

Alignment:
CATCTGGCAGCCCA
----CTGCAGCC--

Original motif Consensus sequence: CATCTGGCAGCCCA

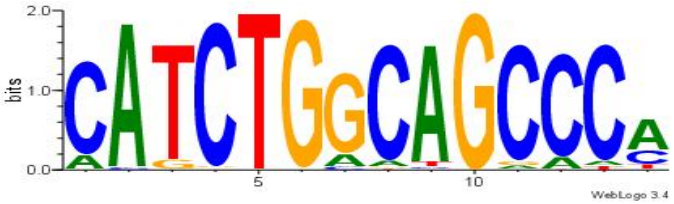

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

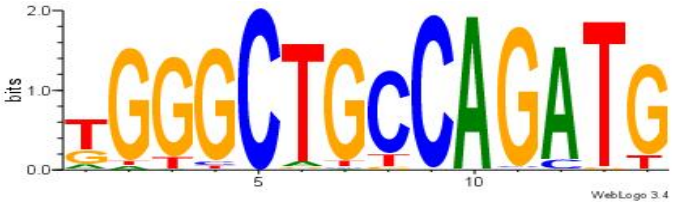

Dataset #: 1
Motif ID: 286
Motif name: Motif 286
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0715063

Alignment:
CAGGCGGCTGGGAG
----GGCTGCAG--

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

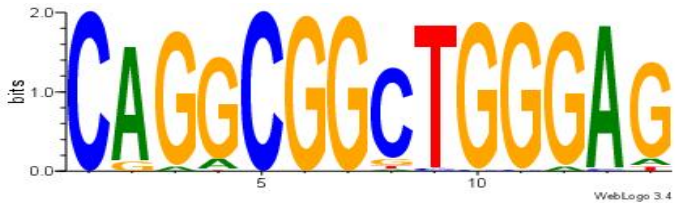

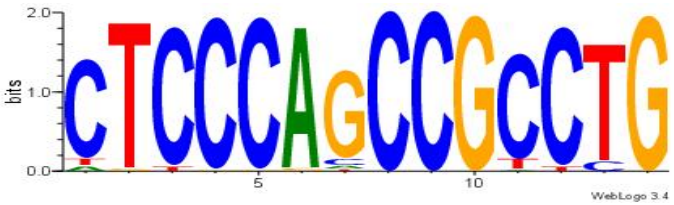

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.071839

Alignment:

```
CGCACTCCTCAGCC
------CTGCAGCC
```

Original motif Consensus sequence: CGCACTCCTCAGCC

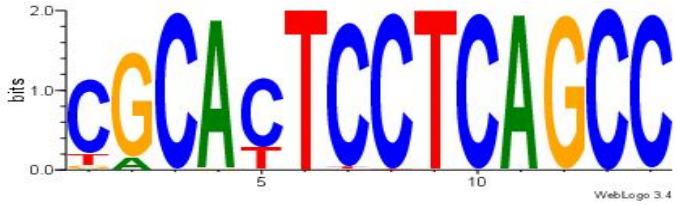

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

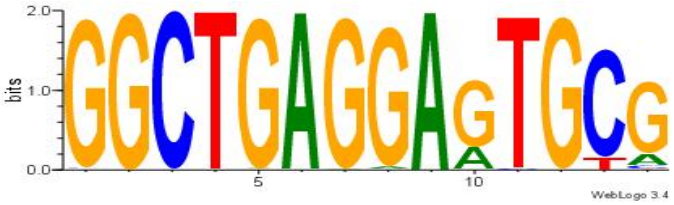

Dataset #:	1
Motif ID:	301

Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.076416

Alignment:

```
GTCTGGMGTCTTGG
----CTGCAGCC--
```

Original motif Consensus sequence: CCAAGACYCCAGAC

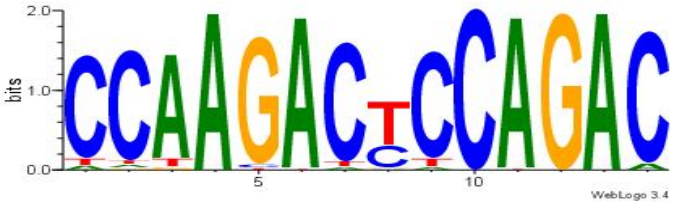

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

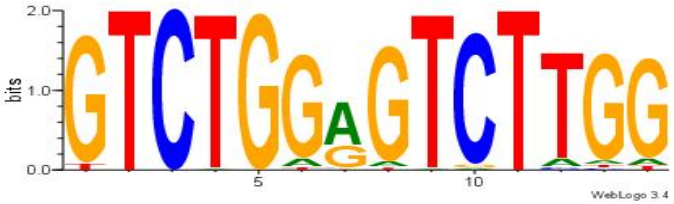

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0767676

Alignment:
MGTCTMKCTCTGTKGCCCAG
---CTGCAGCC---------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

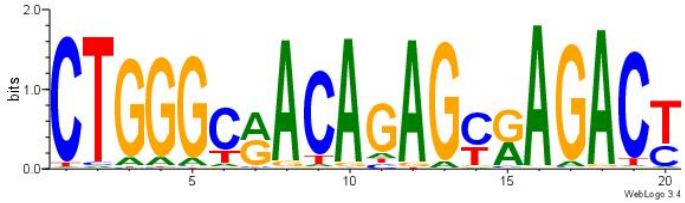

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

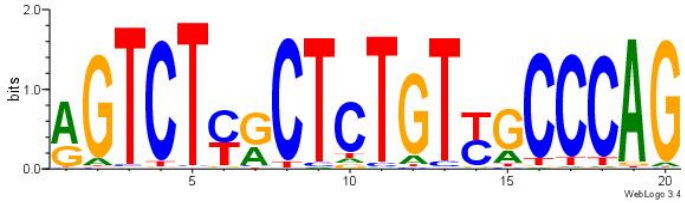

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0785411

Alignment:
AACAACASACACTGGGGCCT
-CTGCAGCC-----------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

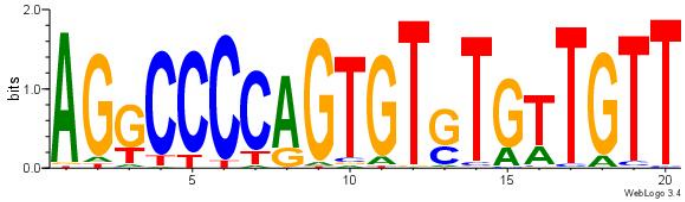

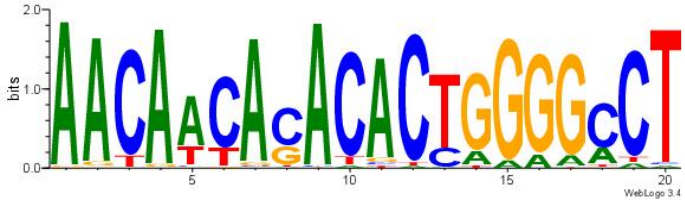

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0799671

Alignment:

```
GTAGACKGGAGCTGTTCCT
------CTGCAGCC-----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

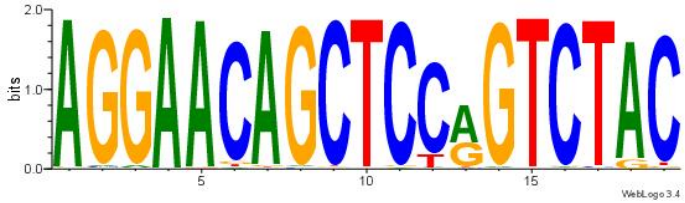

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

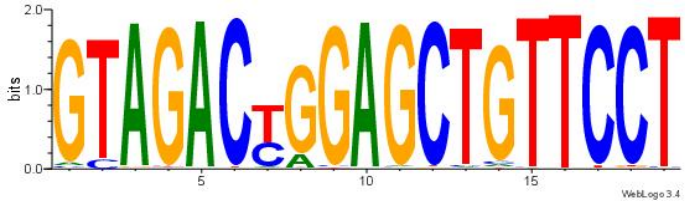

Dataset #: 1

Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.081406

Alignment:

```
ACATCTGYMMCC
----CTGCAGCC
```

Original motif Consensus sequence: ACATCTGYMMCC

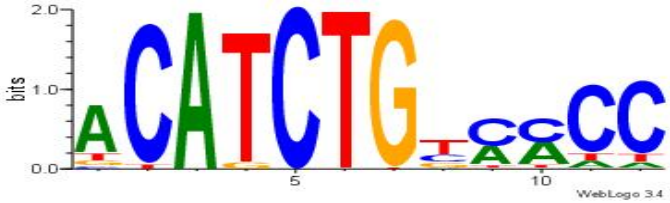

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0815155

Alignment:
AGGAGCCCCTCHGCCCR
-------CTGCAGCC--

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

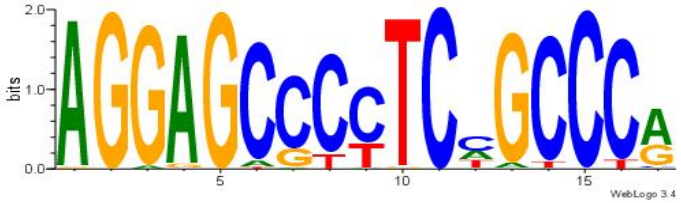

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0819183

Alignment:
GATGTGTCTGGAG
-----GGCTGCAG

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

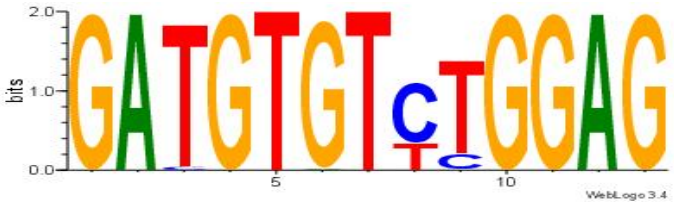

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.082316

Alignment:

```
GGGRSCACAGGAGCD
CTGCAGCC-------
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

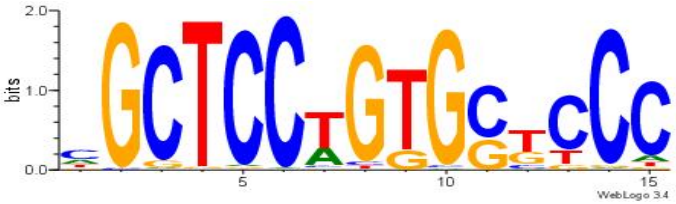

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

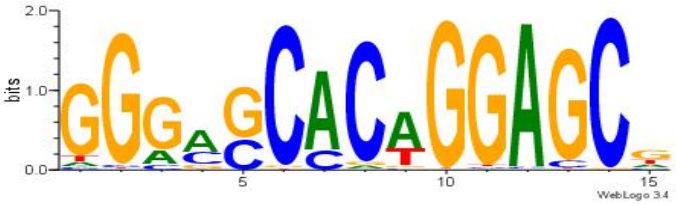

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0824033

Alignment:

```
AAGGAACAAACTCCRGACAC
----------CTGCAGCC--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

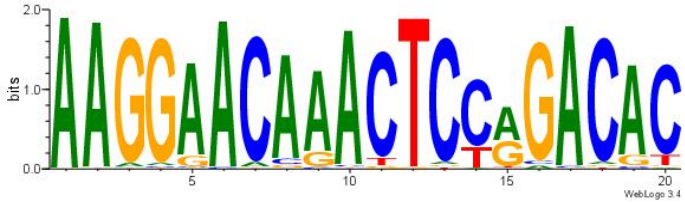

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

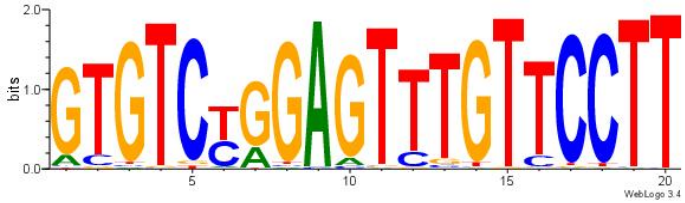

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8

Similarity score: 0.0838035

Alignment:
CTCCAGKTMCATCCATGTTG
------CTGCAGCC------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

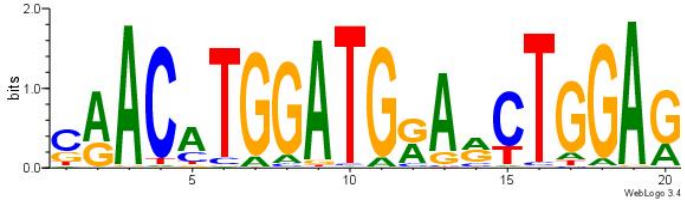

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

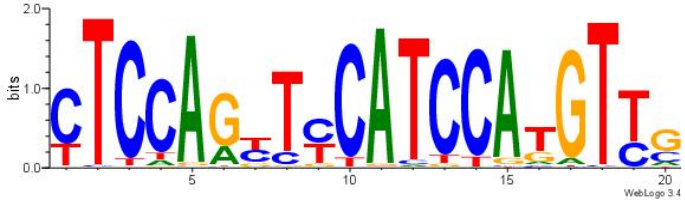

Dataset #: 1
Motif ID: 4
Motif name: Motif 4
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 8
Similarity score: 0.0843889

Alignment:
CCTGTAATCCCAGC
-----CTGCAGCC-

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

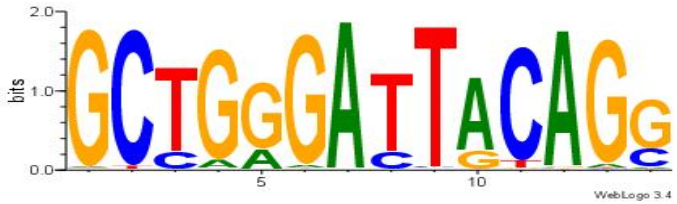

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.084416

Alignment:

```
CCTCRGCCTCC
CTGCAGCC---
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	121

Motif name:	Motif 121
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0847075

Alignment:

```
TGGAGGTTSTAG
----GGCTGCAG
```

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

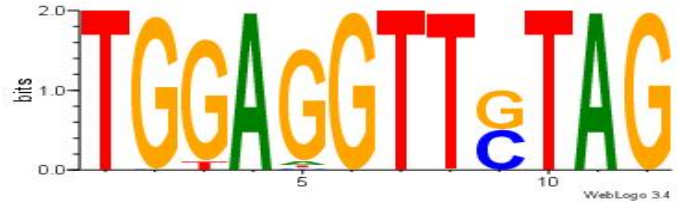

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0849133

Alignment:
GGGACWGCACAT
--GGCTGCAG--

Original motif Consensus sequence: ATGTGCWGTCCC

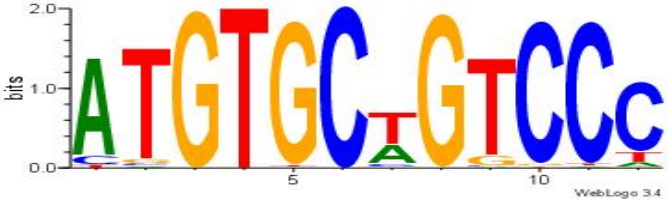

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
CAAACTGCAAG
-GGCTGCAG--

Original motif Consensus sequence: CAAACTGCAAG

Reverse complement motif Consensus sequence: CTTGCAGTTTG

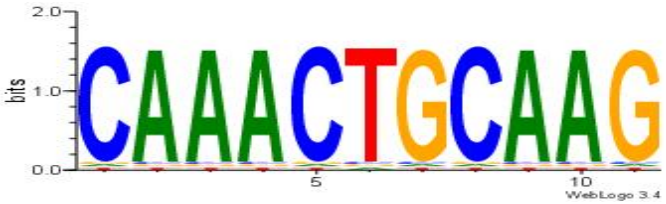

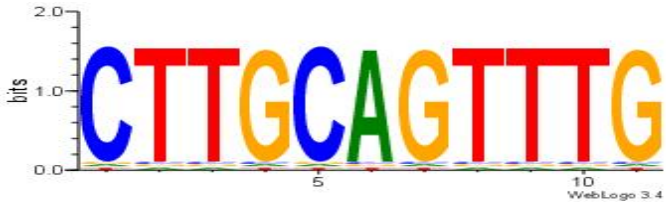

Dataset #:	1
Motif ID:	272
Motif name:	Motif 272
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
GTGACAGCTG
--GGCTGCAG
```

Original motif Consensus sequence: CAGCTGTCAC

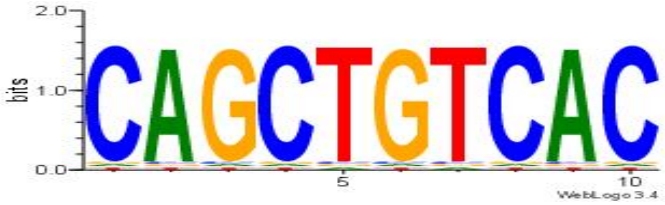

Reverse complement motif Consensus sequence: GTGACAGCTG

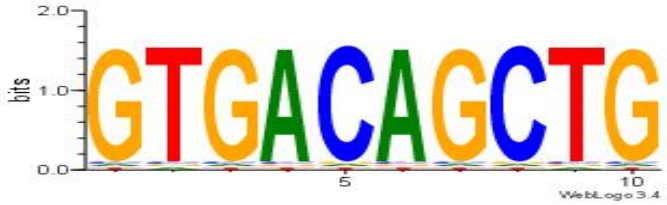

Dataset #: 1 Motif ID: 152 Motif name: Motif 152

Original motif Consensus sequence: TAAAATAA

Reverse complement motif Consensus sequence: TTATTTTA

Best Matches for Significant Motif ID 152 (Highest to Lowest)

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0340112

Alignment:

```
TAATTTTATGTGTCAACTTG
TTATTTTA------------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

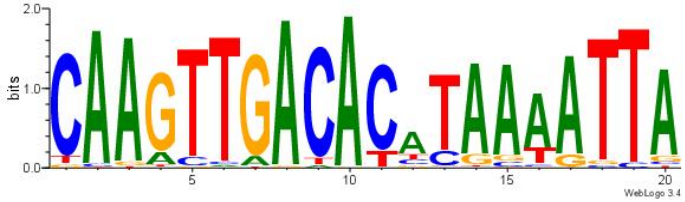

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

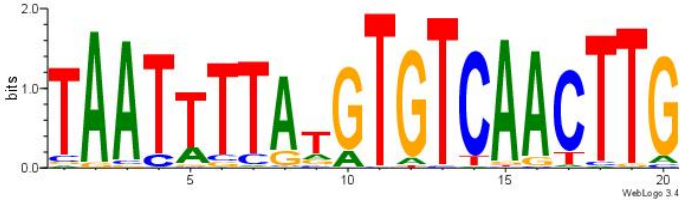

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0363851

Alignment:

```
AAGTGAAATAA
---TAAAATAA
```

Original motif Consensus sequence: AAGTGAAATAA

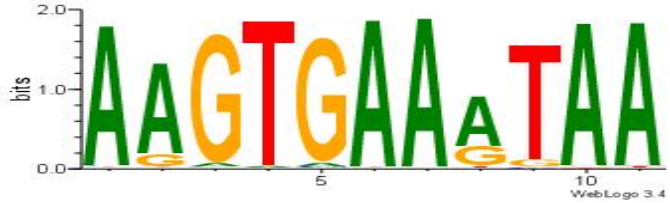

Reverse complement motif Consensus sequence: TTATTTCACTT

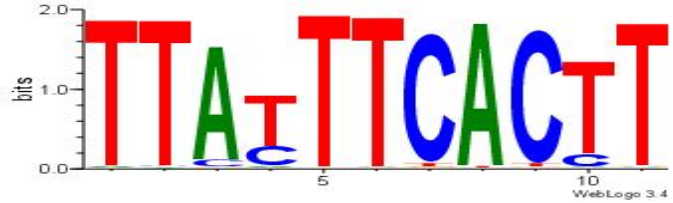

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	13
Number of overlap:	8

Similarity score: 0.044499

Alignment:
ACCCAATWTGTAGTCTTTTA
----------TTATTTTA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

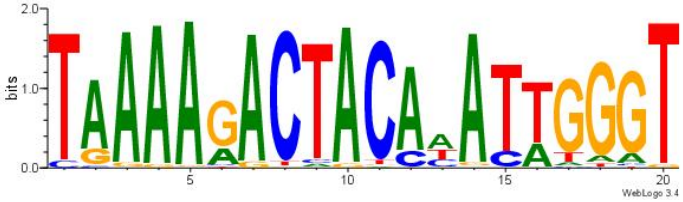

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

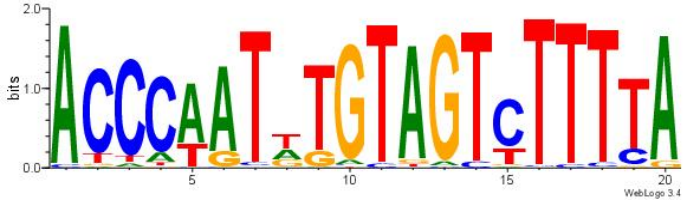

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.0489303

Alignment:
GTTAACTGTAAAACAGCCT
--------TAAAATAA---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

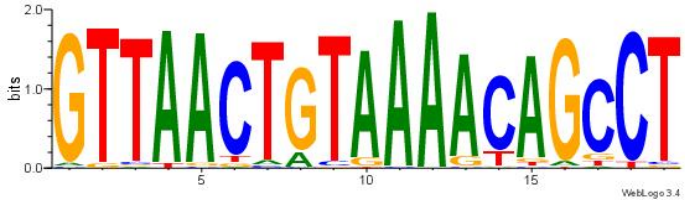

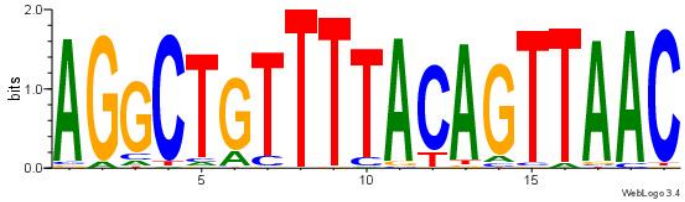

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0492169

Alignment:

```
GATACAAAATCAATGTR
----TAAAATAA-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

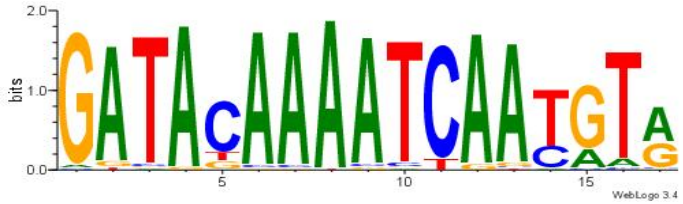

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

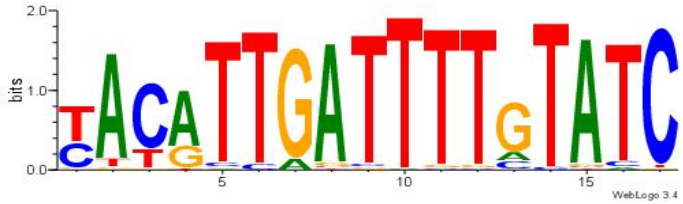

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0507554

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
---TTATTTTA---------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

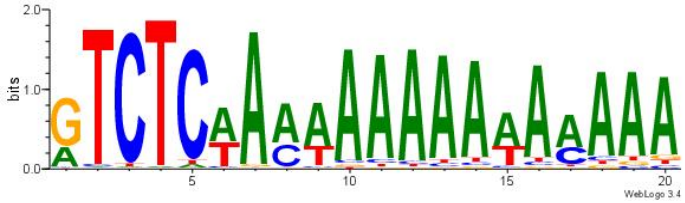

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

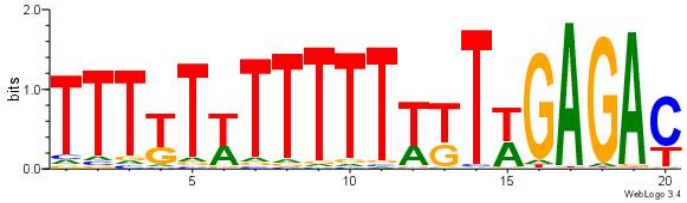

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8

Similarity score: 0.0511557

Alignment:
CTCATTTAATCCTCACAAC
----------TTATTTTA-

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

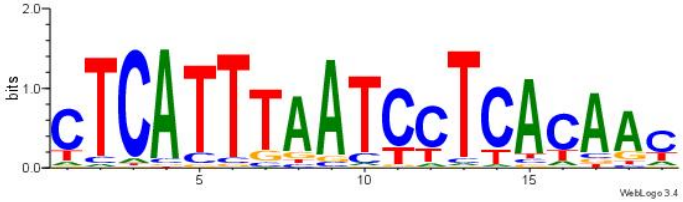

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

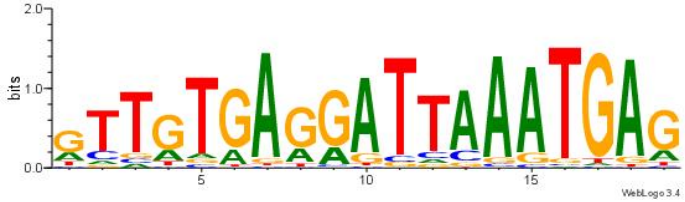

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 8
Similarity score: 0.0527595

Alignment:
AATTAAAAGACACAGACTG
---TAAAATAA--------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

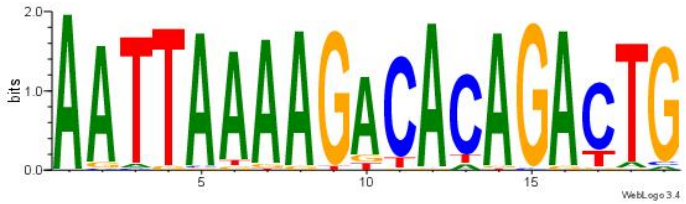

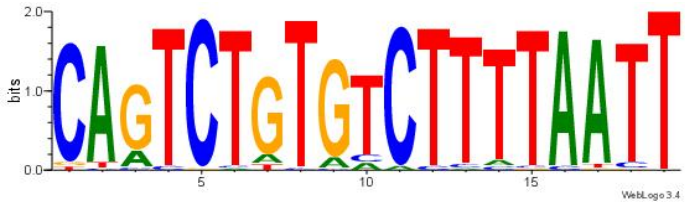

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0533685

Alignment:

```
TTTTTTTMTTT
TTATTTTA---
```

Original motif Consensus sequence: AAAYAAAAAAA

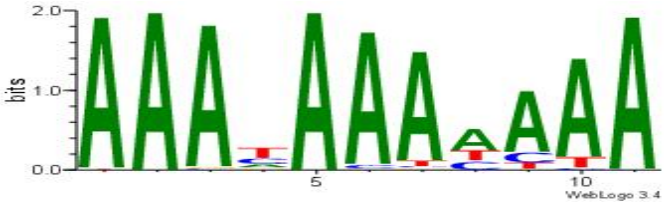

Reverse complement motif Consensus sequence: TTTTTTTMTTT

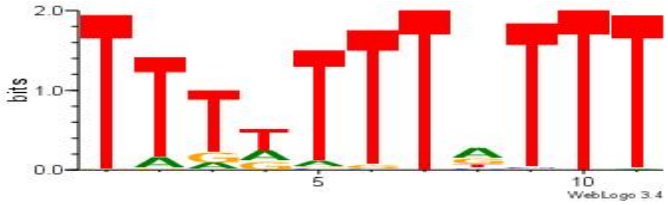

Dataset #:	1
Motif ID:	287

Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0555347

Alignment:

```
CAMTTAGCATAATG
----TAAAATAA--
```

Original motif Consensus sequence: CATTATGCTAARTG

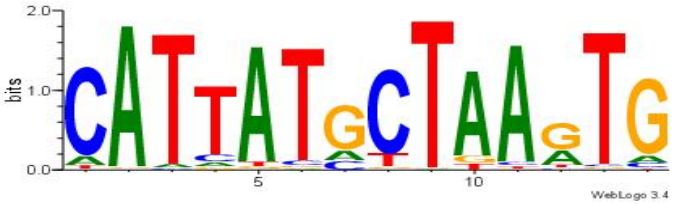

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

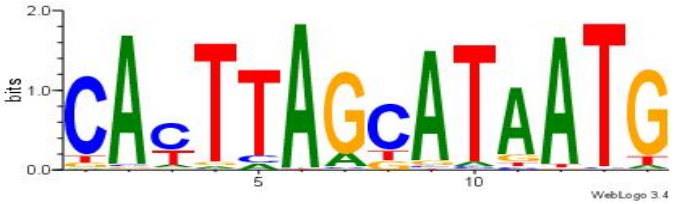

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0586906

Alignment:
TGAGKCAATTAAACCTCTT
-------TAAAATAA----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

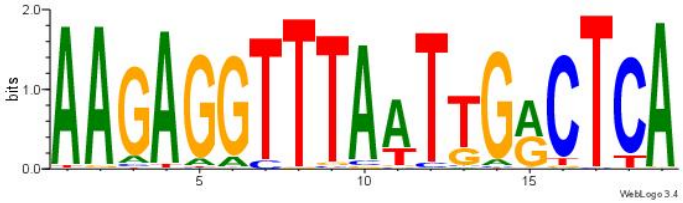

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

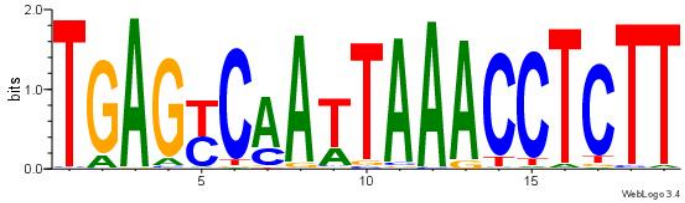

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0589144

Alignment:
TTTCTTTGACTRG
-TTATTTTA----

Original motif Consensus sequence: CKAGTCAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

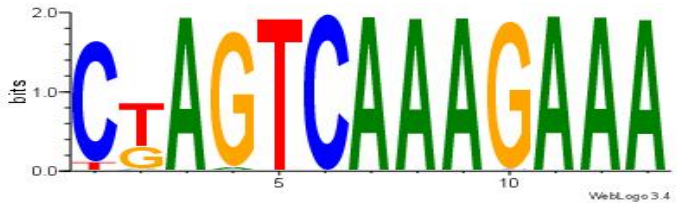

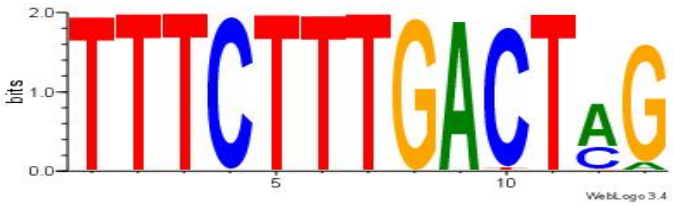

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0590458

Alignment:

```
GGGAGGGATATATTAGC
-------TTATTTTA--
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

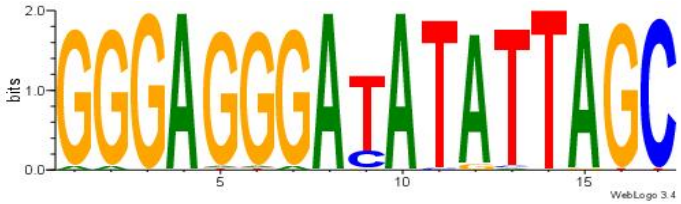

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

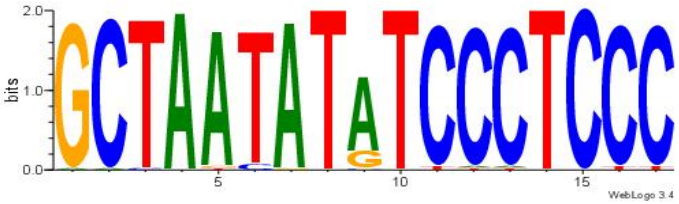

Dataset #: 1

Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0625878

Alignment:

```
AAGGAAAAGAAA
---TAAAATAA-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

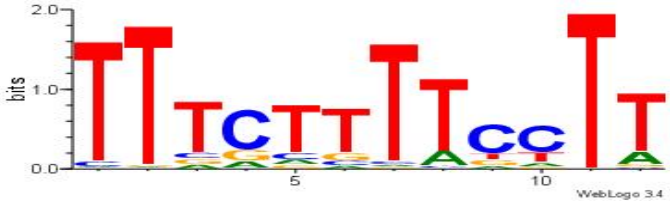

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0642623

Alignment:
ATGGAATAYTATTCAGCCAT
-TAAAATAA----------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

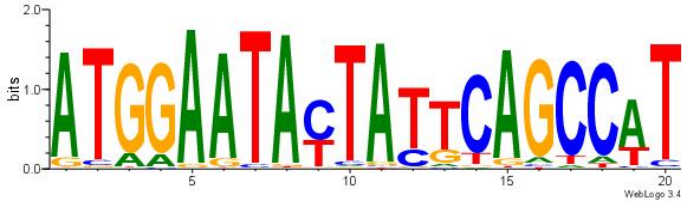

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

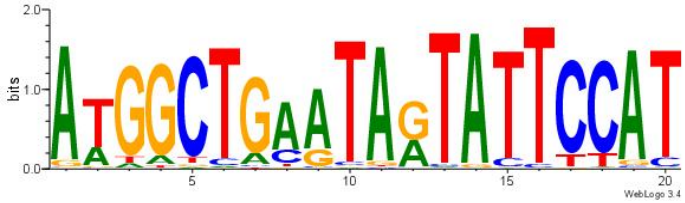

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.065239

Alignment:
CTGCTATAACAAA
----TAAAATAA-

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

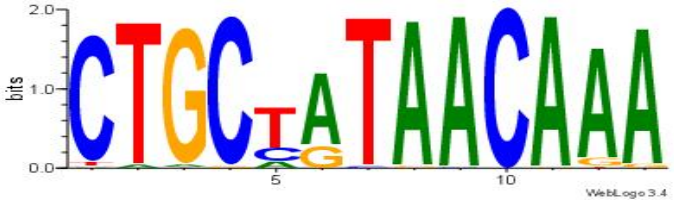

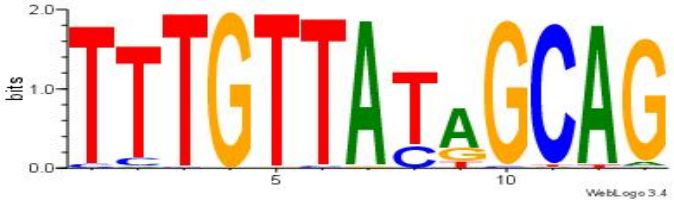

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0659184

Alignment:

```
AATGAKATCATGTCYTTTGC
----------TAAAATAA--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

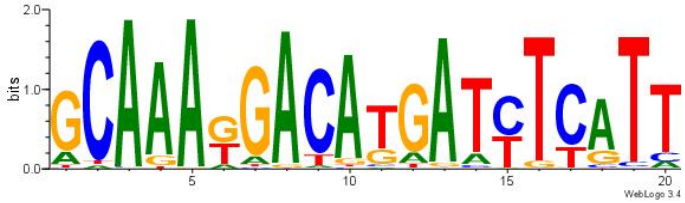

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

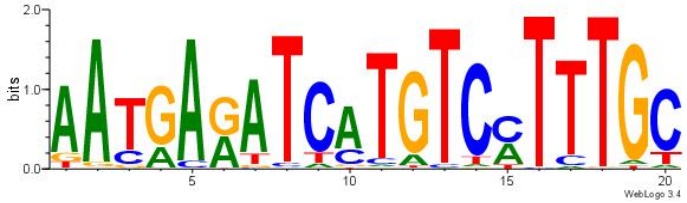

Dataset #: 1

Motif ID:	130
Motif name:	Motif 130
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0677062

Alignment:

```
ATMATAATAAT
-TAAAATAA--
```

Original motif Consensus sequence: ATTATTATYAT

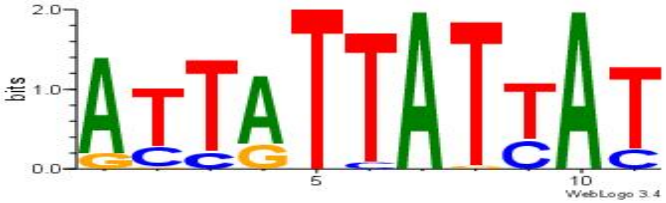

Reverse complement motif Consensus sequence: ATMATAATAAT

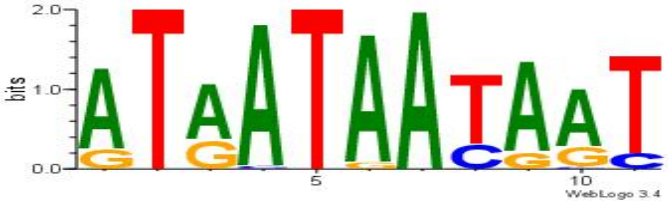

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0680324

Alignment:
CCATGATTGTRAGG
---TTATTTTA---

Original motif Consensus sequence: CCATGATTGTRAGG

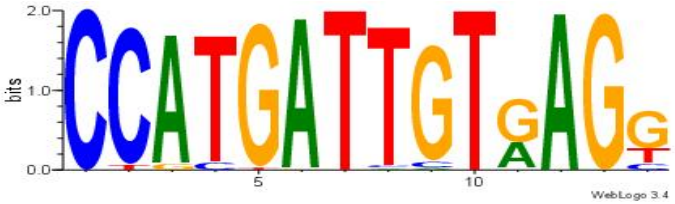

Reverse complement motif Consensus sequence: CCTMACAATCATG

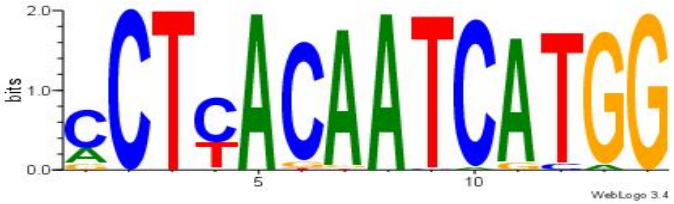

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0690379

Alignment:
GCCGTTTKTTAAGCCCGTY
--------TTATTTTA---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

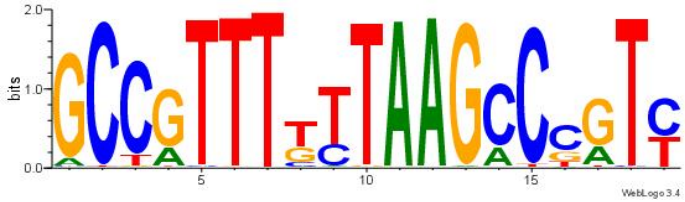

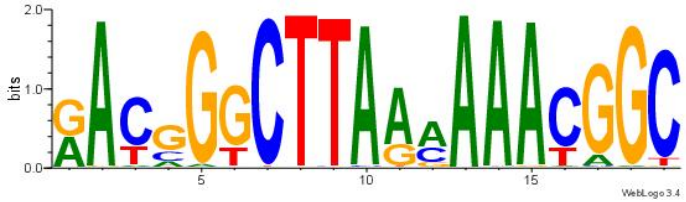

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0697468

Alignment:

```
AGTGACCCGATTTTCCAGGT
-------TTATTTTA-----
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

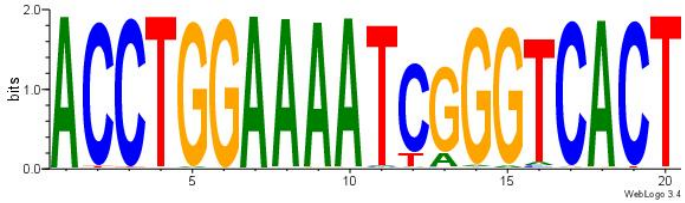

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

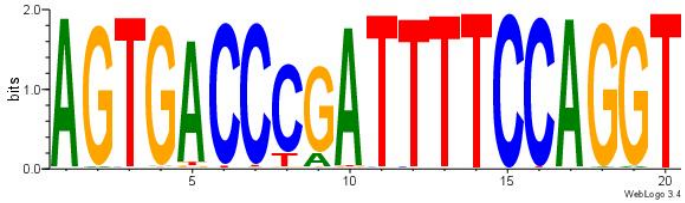

Dataset #: 1

Motif ID:	173
Motif name:	Motif 173
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.069815

Alignment:

```
AAGGAAACAA
--TAAAATAA
```

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

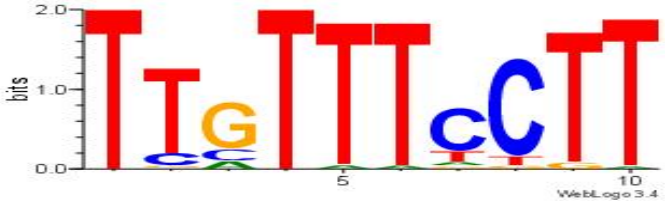

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0717345

Alignment:
GCAGCAMTATTCACAATAG
TAAAATAA----------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

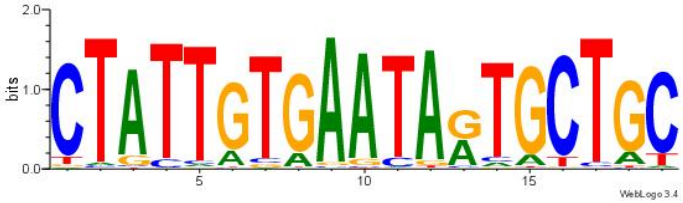

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

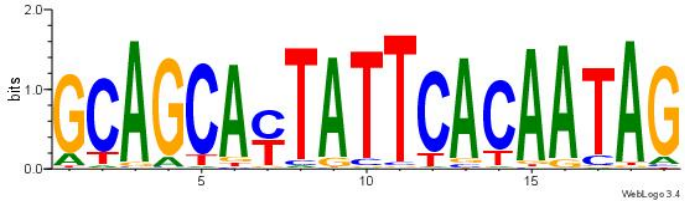

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0739529

Alignment:
AAATGGAATCAT
---TAAAATAA-

Original motif Consensus sequence: AAATGGAATCAT

Reverse complement motif Consensus sequence: ATGATTCCATTT

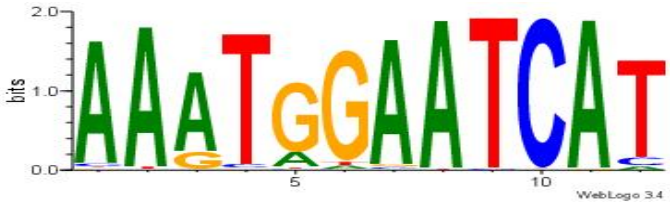

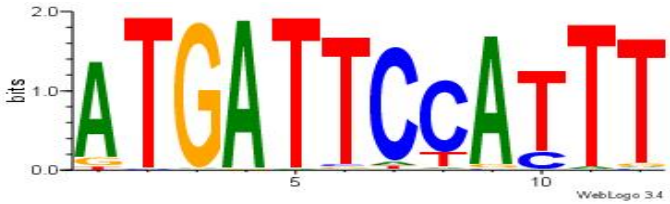

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0745424

Alignment:

```
CAAGGTCTGATTGTW
-------TTATTTTA
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

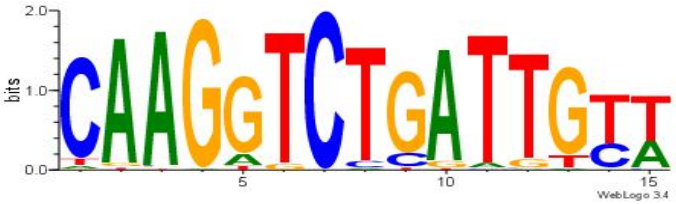

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	57

Motif name:	Motif 57
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0747174

Alignment:

```
AAATATTTATT
-TTATTTTA--
```

Original motif Consensus sequence: AAATATTTATT

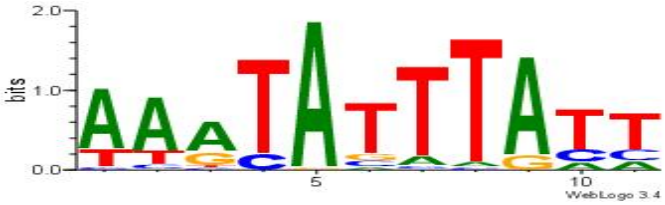

Reverse complement motif Consensus sequence: AATAAATATTT

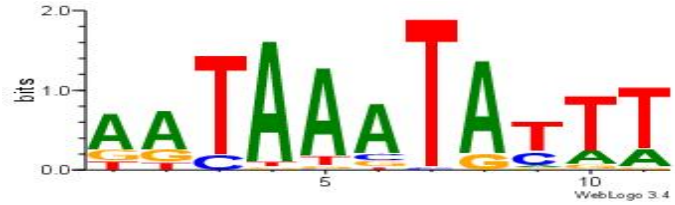

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0749336

Alignment:
ACATGCTACAACAT
------TAAAATAA

Original motif Consensus sequence: ACATGCTACAACAT

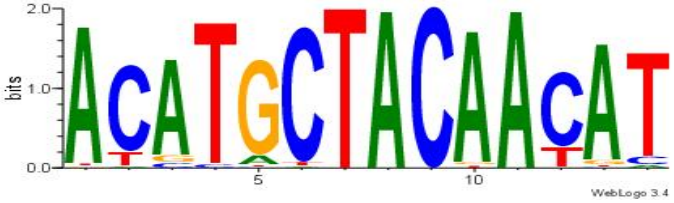

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

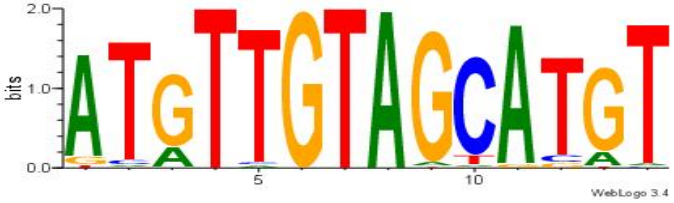

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0750596

Alignment:
AAAGCTGGAGCTATTATCTA
----------TTATTTTA--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

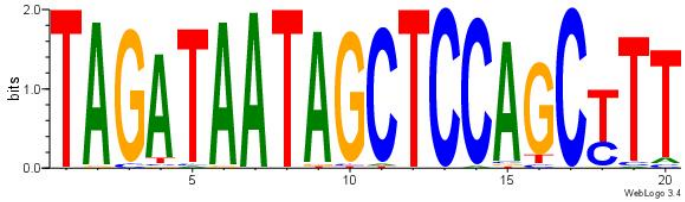

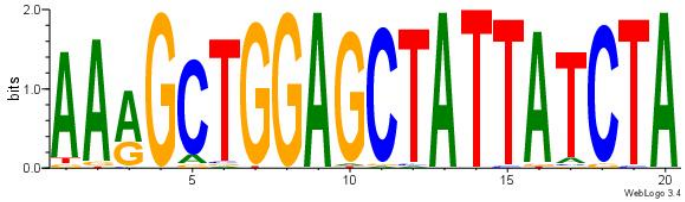

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0750769

Alignment:

```
ACATCMTCTGAAATCTAGG
--------TAAAATAA---
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

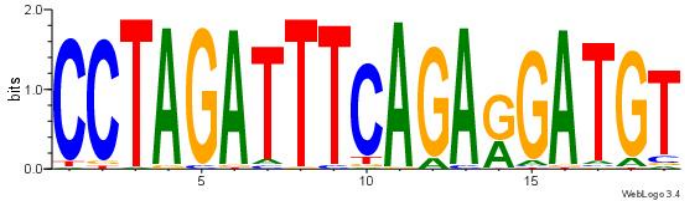

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

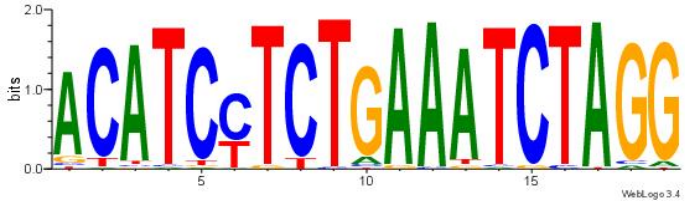

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0753834

Alignment:

```
TTCAMTCATGATTTGGCTCT
--------TTATTTTA----
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

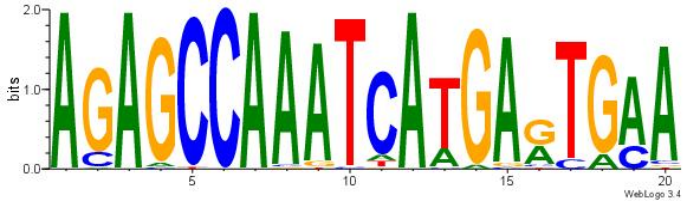

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

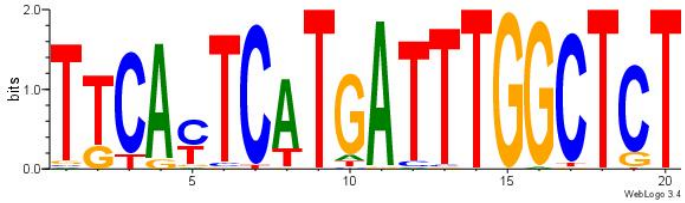

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0756493

Alignment:
GAAATTGACTTCCTCCT
TAAAATAA---------

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

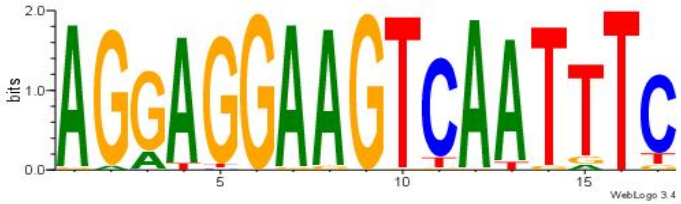

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

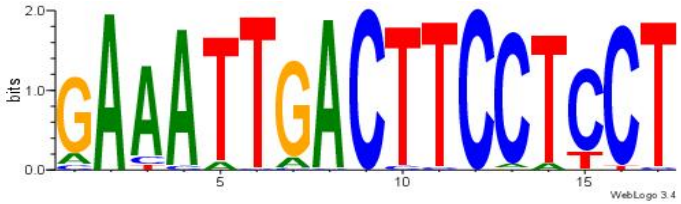

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0759019

Alignment:
TWTACCTATGTAACAAACCT
----TAAAATAA--------

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

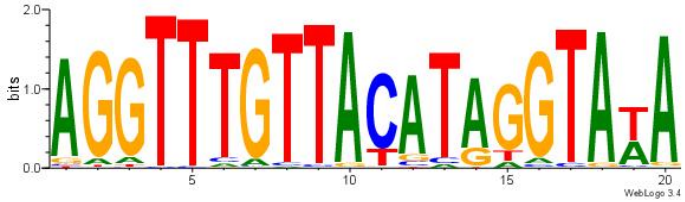

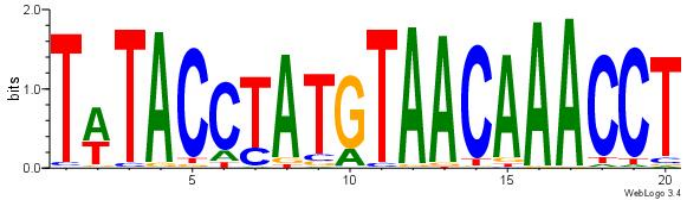

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0759938

Alignment:

```
GKCTGTACCCCCATTGTAT
----------TTATTTTA-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

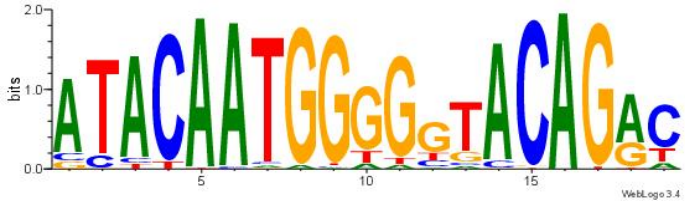

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

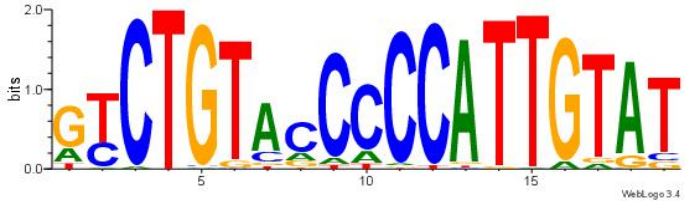

Dataset #: 1

Motif ID:	342
Motif name:	Motif 342
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0761852

Alignment:

```
GCCTATTAAAC
--TTATTTTA-
```

Original motif Consensus sequence: GCCTATTAAAC

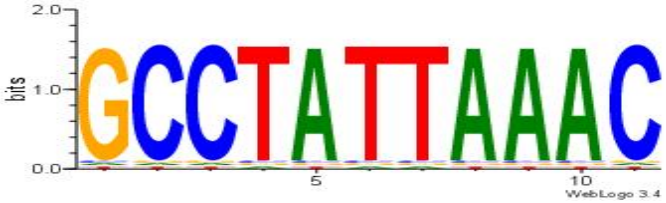

Reverse complement motif Consensus sequence: GTTTAATAGGC

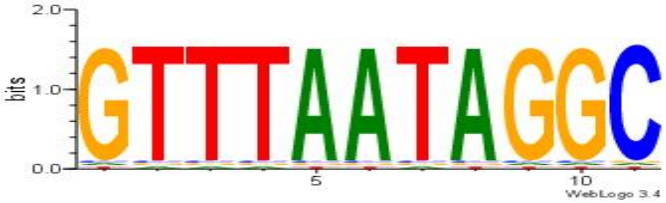

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0765237

Alignment:
TYTGTCMTTTTGTGACTGGC
----TTATTTTA--------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

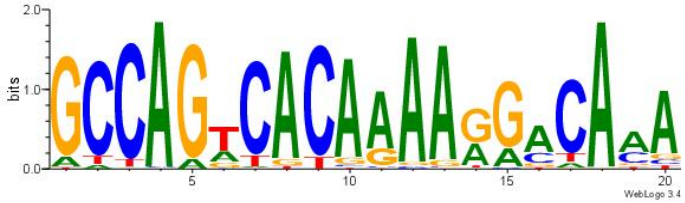

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

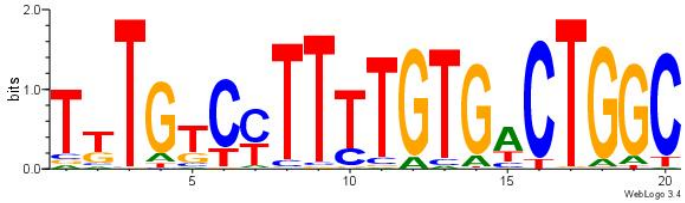

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0768143

Alignment:
AAYRGACTAATACA
--TAAAATAA----

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

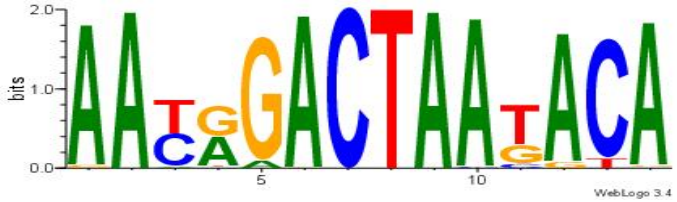

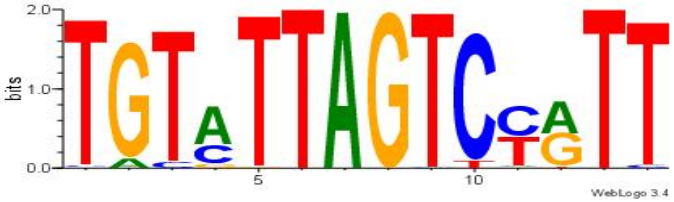

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 13
Number of overlap: 8
Similarity score: 0.0769349

Alignment:
CCCATGCAAGTCYRAAATCC
----------TAAAATAA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

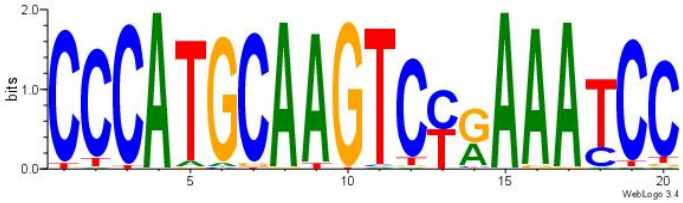

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

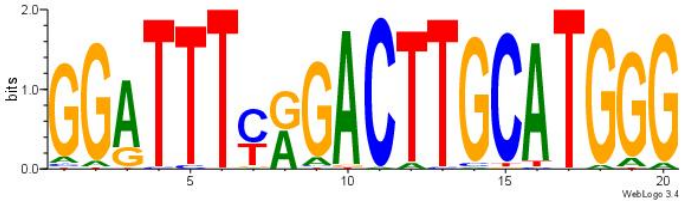

Dataset #: 1

Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0770071

Alignment:

```
CAGAAATCACC
-TAAAATAA--
```

Original motif Consensus sequence: CAGAAATCACC

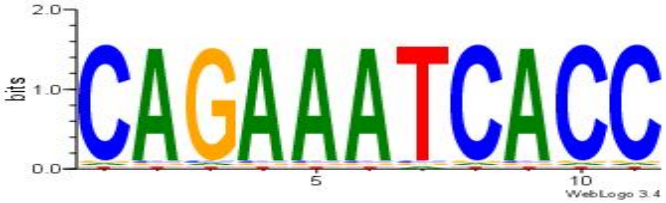

Reverse complement motif Consensus sequence: GGTGATTTCTG

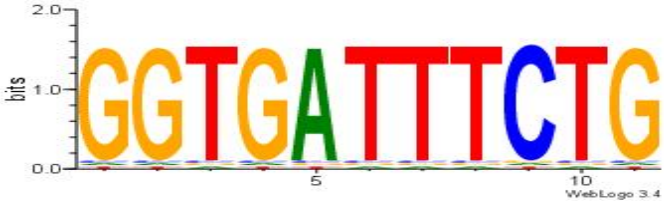

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0773758

Alignment:
TTYTTGTTGTTGTTGTT
---TTATTTTA------

Original motif Consensus sequence: AACAACAACAACAAMAA

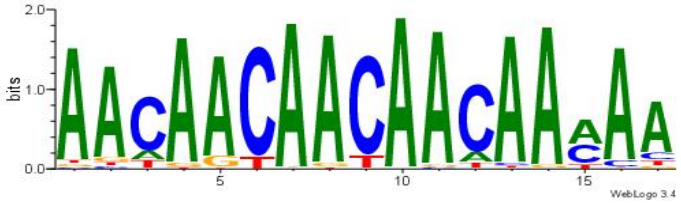

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

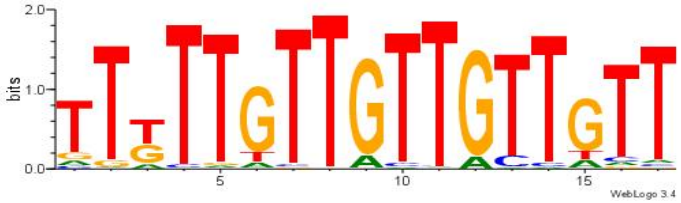

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0774639

Alignment:
AAATTAGGCCAATTAATAAC
-----------TAAAATAA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

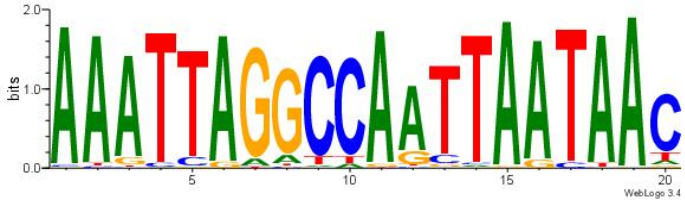

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0779634

Alignment:

```
GGTGGGAGAAATACCT
------TAAAATAA--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

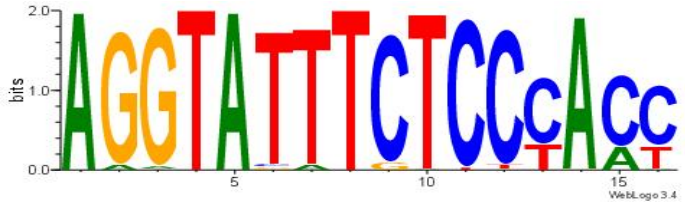

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

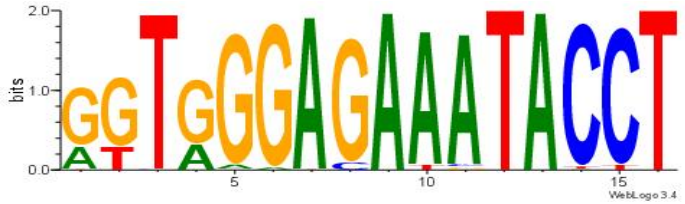

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0785879

Alignment:

```
CACCAGGAGATTATATCCCR
--TTATTTTA----------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

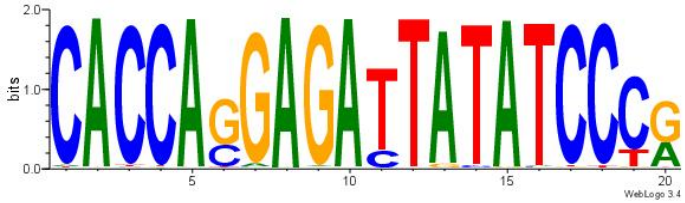

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

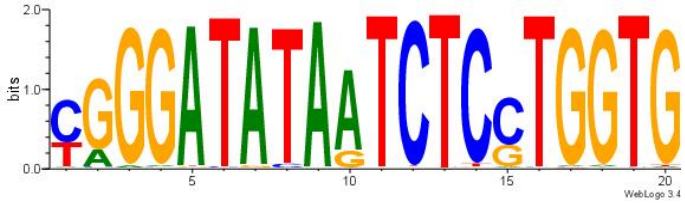

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8

Similarity score: 0.0787277

Alignment:
CAAAGGCATAAGAATGAT
---------TAAAATAA-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

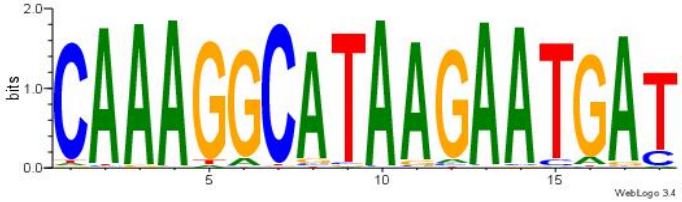

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

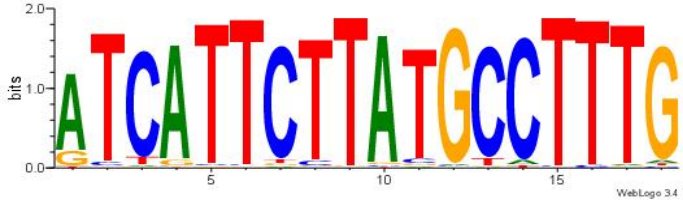

Dataset #: 1
Motif ID: 319
Motif name: Motif 319
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0792546

Alignment:
TTGTTAAAAACTA
---TAAAATAA--

Original motif Consensus sequence: TAGTTTTTAACAA

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

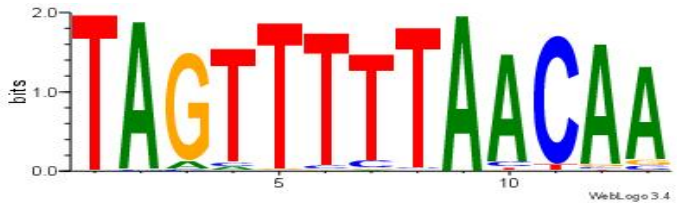

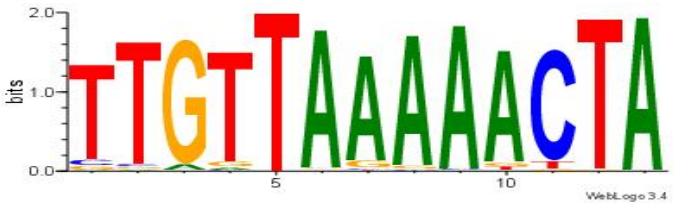

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0795758

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----TAAAATAA-------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

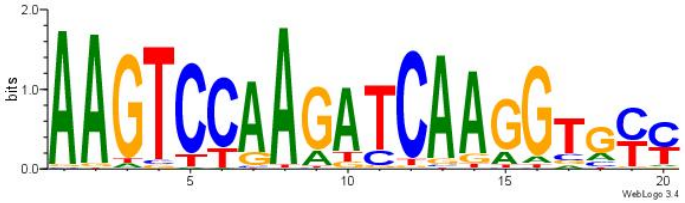

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

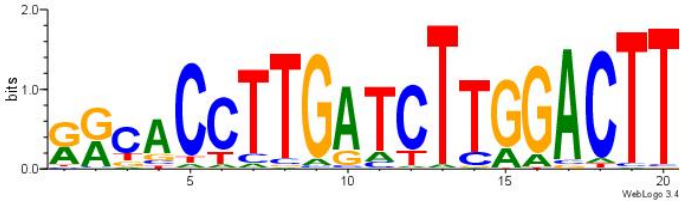

Dataset #:	1

Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0797796

Alignment:

```
TTCTGTTTCT
TTATTTTA--
```

Original motif Consensus sequence: AGAAACAGAA

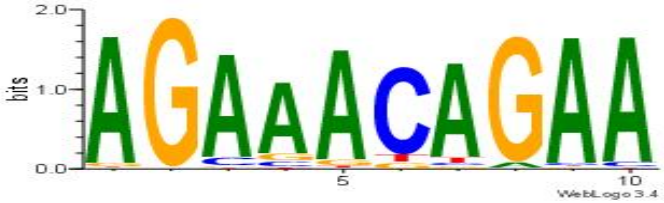

Reverse complement motif Consensus sequence: TTCTGTTTCT

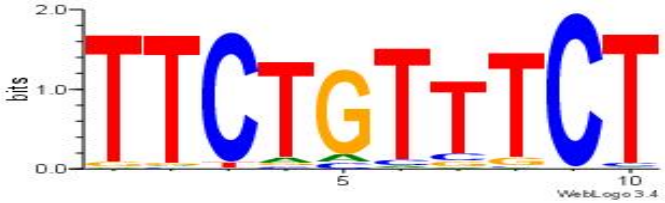

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0798031

Alignment:
AACCCTATTGTGAACTGYG
----TTATTTTA-------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

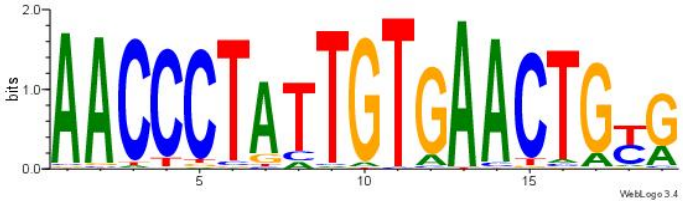

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

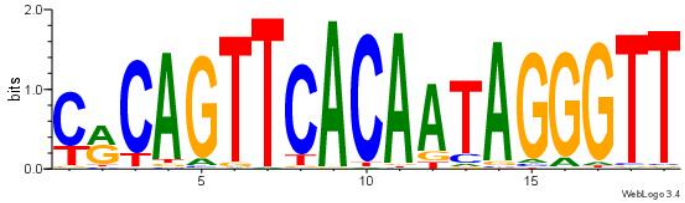

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0798792

Alignment:
TAGTGGTGATTTSTGAGAT
------TTATTTTA-----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

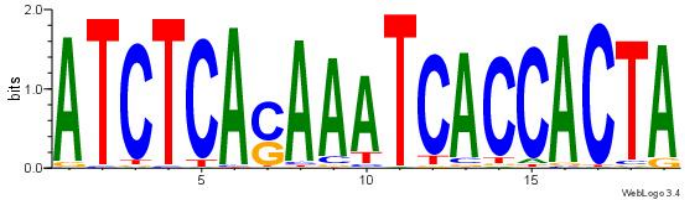

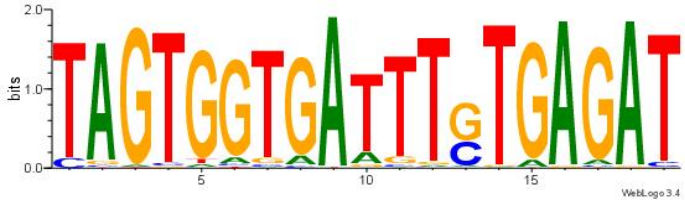

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0803238

Alignment:

```
GACAGGAGATTAACACTGAG
-----TAAAATAA-------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

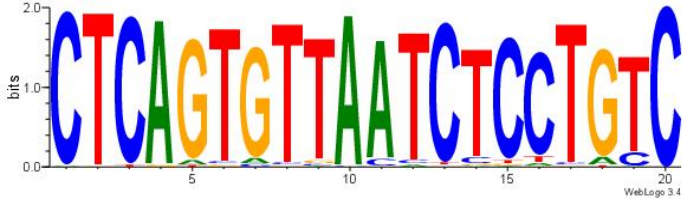

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

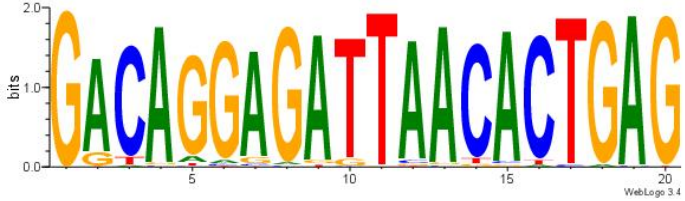

Dataset #: 1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0806477

Alignment:

```
TTTTATAGGATTTGGG
--TTATTTTA------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

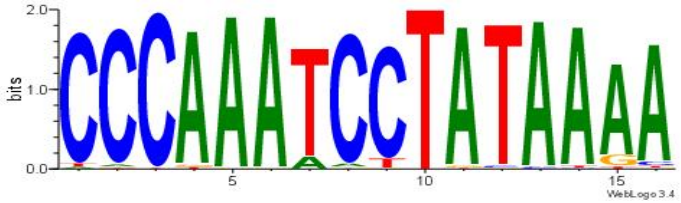

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

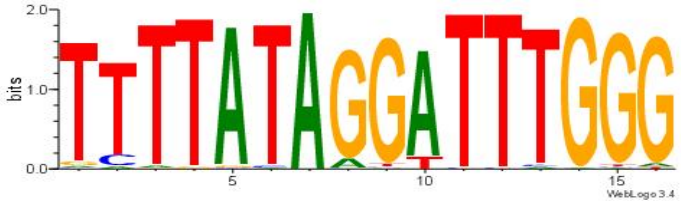

Dataset #: 1 Motif ID: 146 Motif name: Motif 146

Original motif Consensus sequence: CTGTCACCCC

Reverse complement motif Consensus sequence: GGGGTGACAG

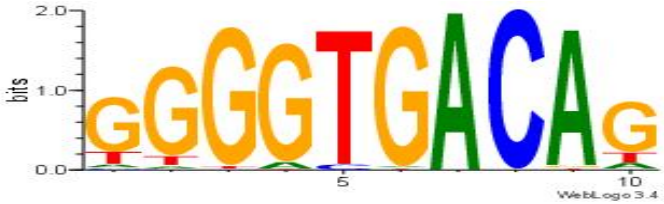

Best Matches for Significant Motif ID 146 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.00304976

Alignment:

```
GGGGTGACAGABGB
----GGGGTGACAG
```

Original motif Consensus sequence: GGGGTGACAGABGB

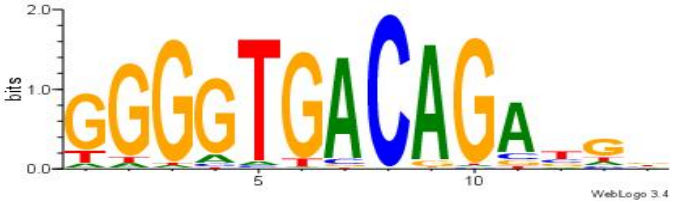

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

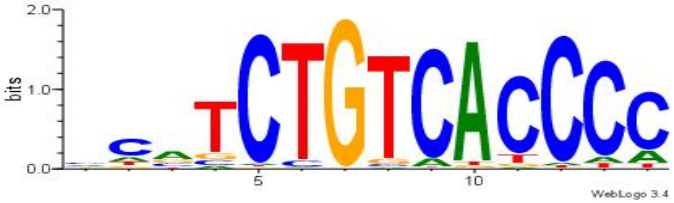

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.021009

Alignment:

```
CTGTCAGCCCAT
CTGTCACCCC--
```

Original motif Consensus sequence: CTGTCAGCCCAT

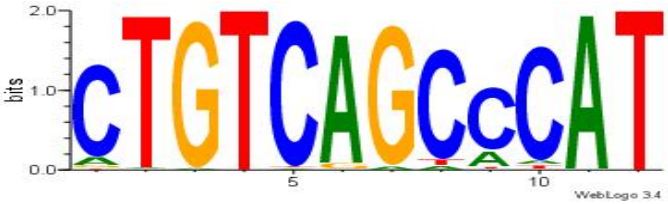

Reverse complement motif Consensus sequence: ATGGGCTGACAG

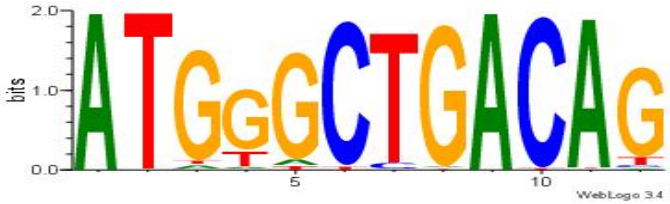

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0415588

Alignment:

```
MGTGTGATGTCTCCCCC
------CTGTCACCCC-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

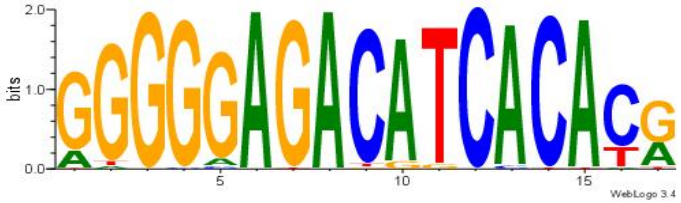

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

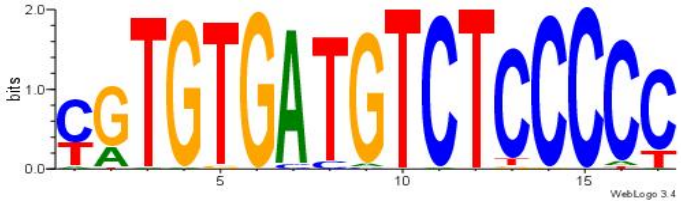

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0448872

Alignment:

```
ATACAATGGGGGTACAGRC
-------GGGGTGACAG--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

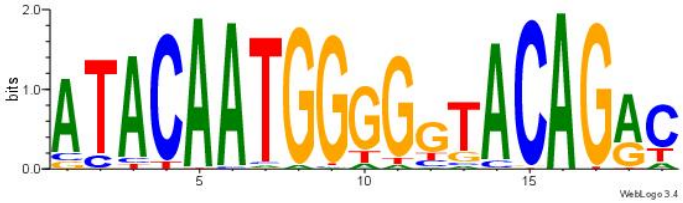

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

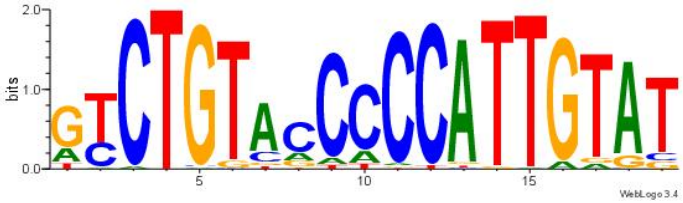

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0451314

Alignment:

```
TGGGCTGCCAGATG
-GGGGTGACAG---
```

Original motif Consensus sequence: CATCTGGCAGCCCA

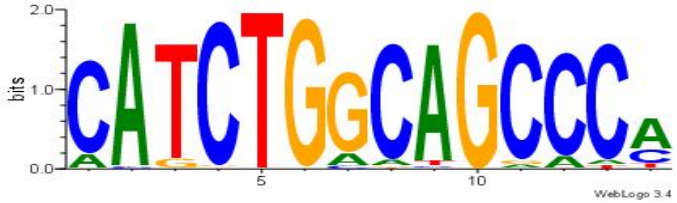

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

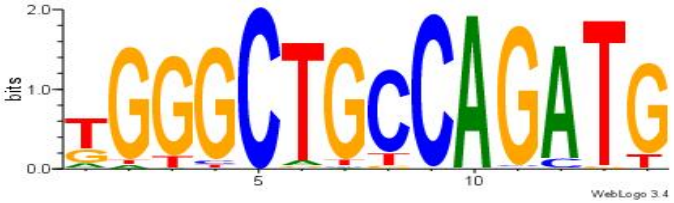

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0472417

Alignment:
CGTCCATCACCCC
---CTGTCACCCC

Original motif Consensus sequence: CGTCCATCACCCC

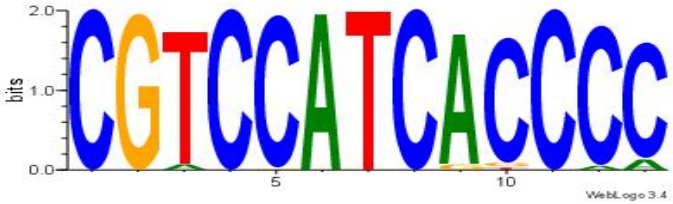

Reverse complement motif Consensus sequence: GGGGTGATGGACG

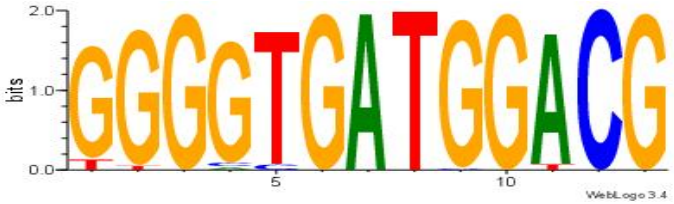

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0492728

Alignment:
GGTGGGGGGGTCAGCCCCC
----GGGGTGACAG-----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

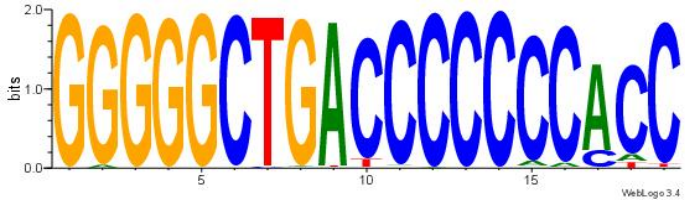

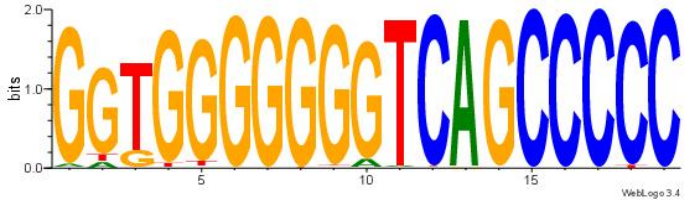

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0496707

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-CTGTCACCCC---------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

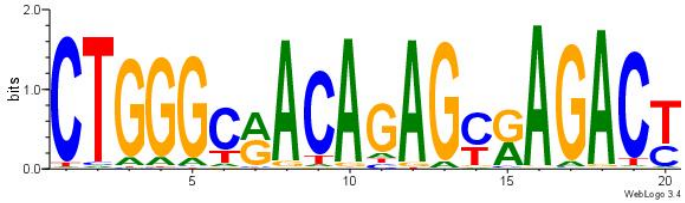

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

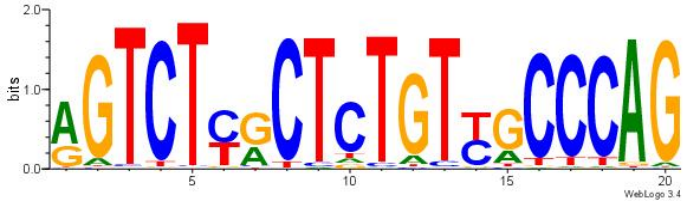

Dataset #:	1

Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0554498

Alignment:

```
GCTGGGATTACAGG
-GGGGTGACAG---
```

Original motif Consensus sequence: GCTGGGATTACAGG

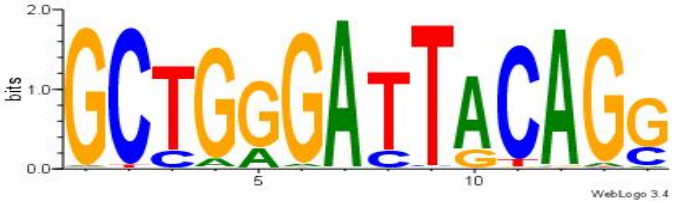

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0593604

Alignment:
CCCMKGGCACCCTCAGTCCT
---CTGTCACCCC-------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

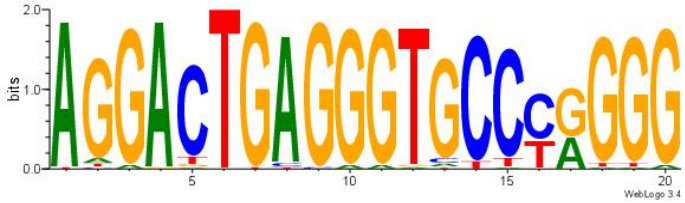

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

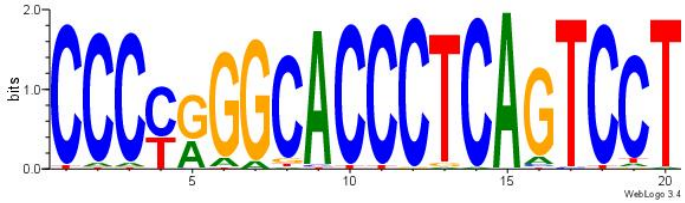

Dataset #:	1
Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.059527

Alignment:
GGGGTGAVCAGAT
GGGGTGACAG---

Original motif Consensus sequence: GGGGTGAVCAGAT

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

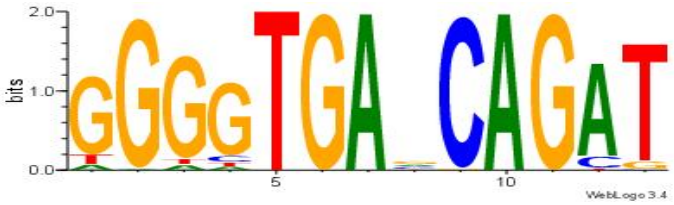

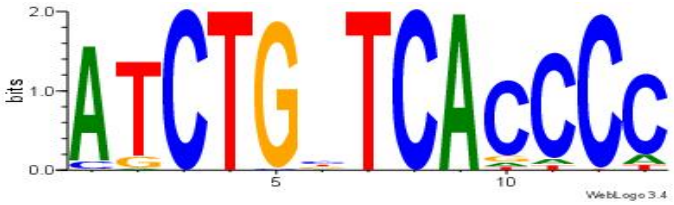

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0643079

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
-----CTGTCACCCC-----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

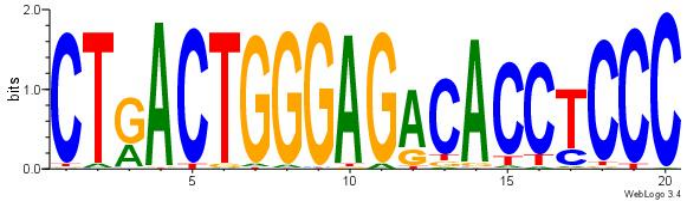

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

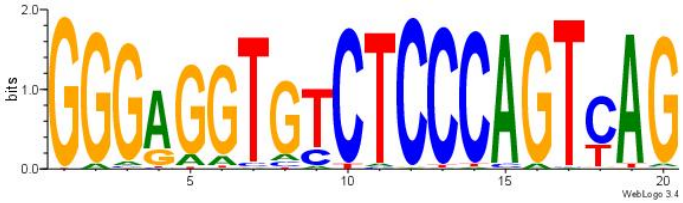

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0657626

Alignment:

```
ACTGTCTTCCACCTCCACAT
-CTGTCACCCC---------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

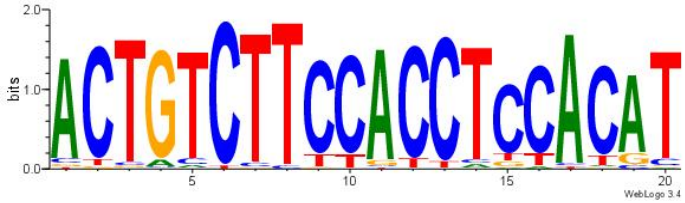

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

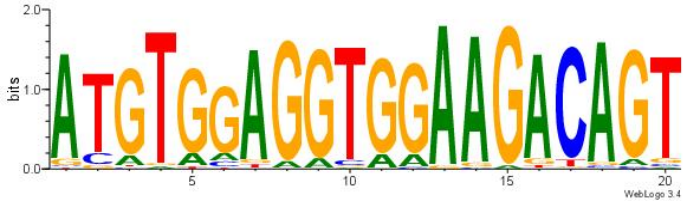

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0673773

Alignment:
TTGAGGAGGCAGTCTG
--GGGGTGACAG----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

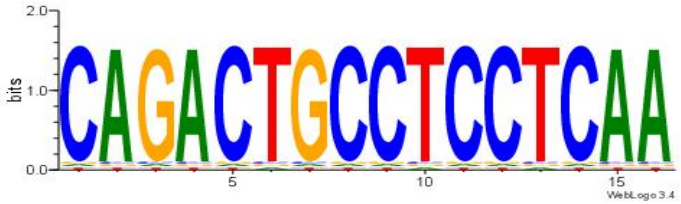

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

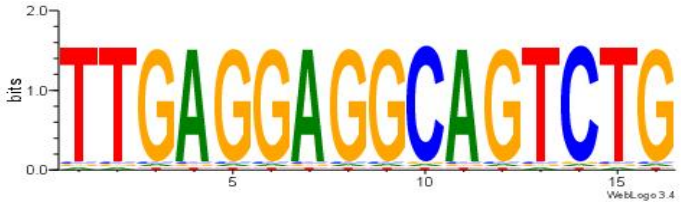

Dataset #: 1
Motif ID: 133
Motif name: Motif 133
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0686108

Alignment:
CTGYGTCCCCA
CTGTCACCCC-

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

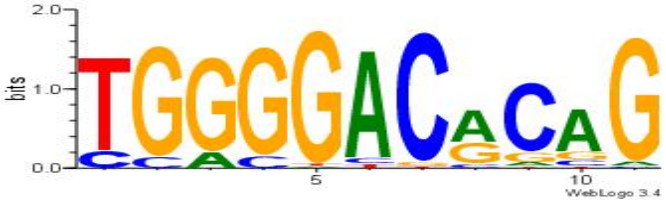

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0701532

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--------GGGGTGACAG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

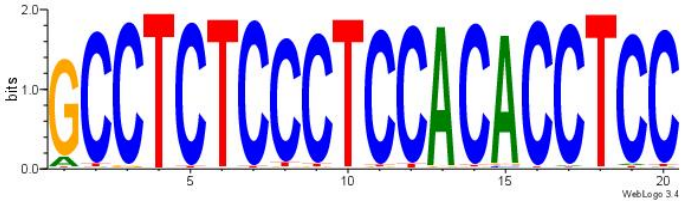

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

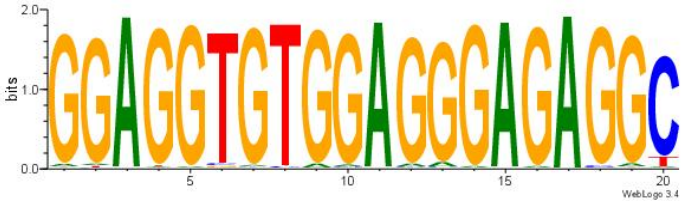

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0702505

Alignment:

```
GGGAGGAAGGGGACAC
------GGGGTGACAG
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

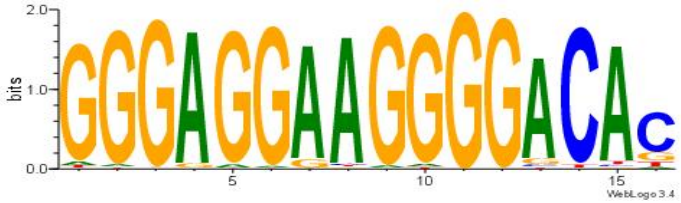

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

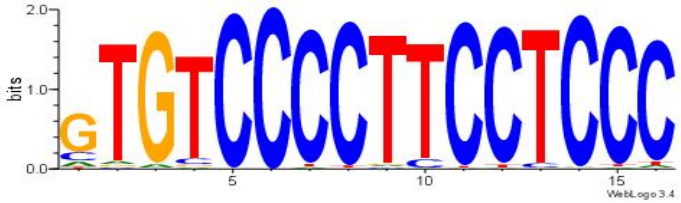

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0708288

Alignment:
AAGTTCTKGGKTACATGTGC
------GGGGTGACAG----

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

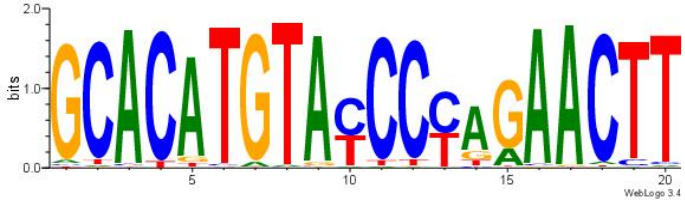

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

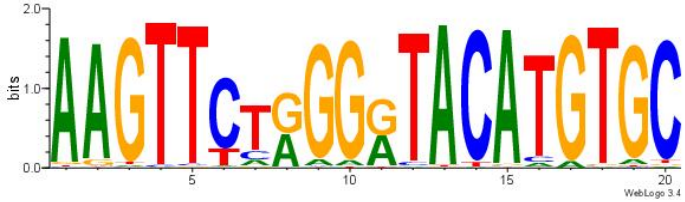

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0712331

Alignment:
GACATGGAGTCAAAGG
-----GGGGTGACAG-

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence:
CCTTTGACTCCATGTC

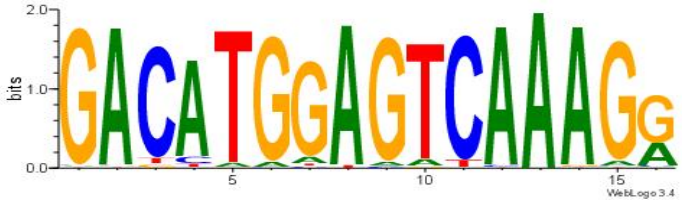

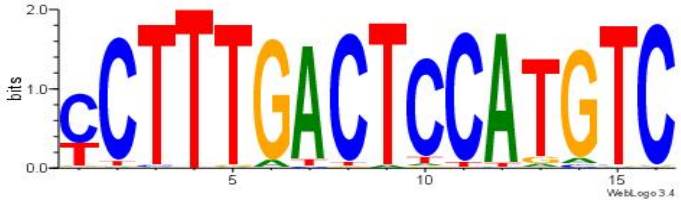

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0722814

Alignment:

```
GGCACTGCTGGGGGACCCAG
----------GGGGTGACAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

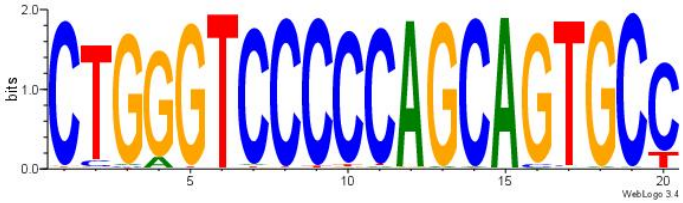

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

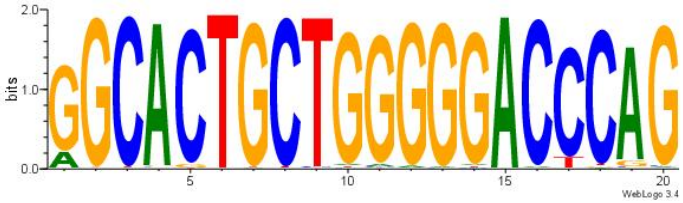

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0743769

Alignment:

```
GTAACACTCACCGCGARGGT
----CTGTCACCCC------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

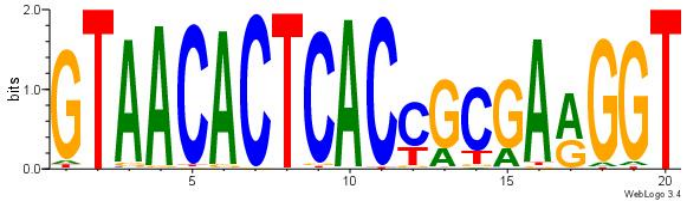

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

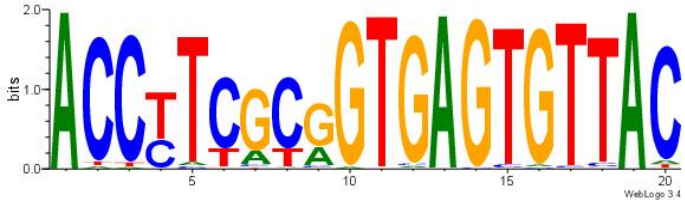

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0744949

Alignment:
CTCTTGTTGCCCAG
---CTGTCACCCC-

Original motif Consensus sequence: CTCTTGTTGCCCAG

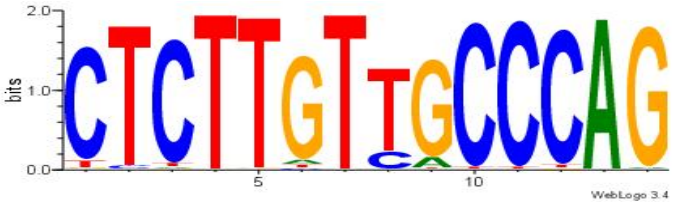

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

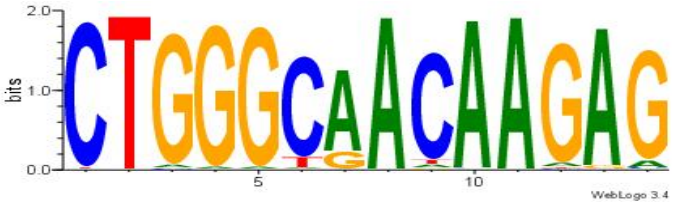

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0761493

Alignment:
GCCAATTTCTCCCATTTGGA
----CTGTCACCCC------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

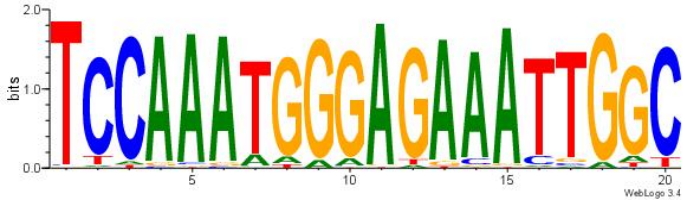

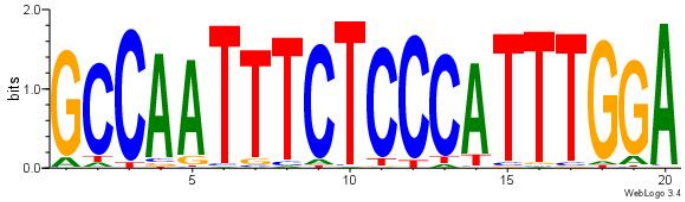

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0761552

Alignment:

```
ACGTCACTTCCG
CTGTCACCCC--
```

Original motif Consensus sequence: CGGAAGTGACGT

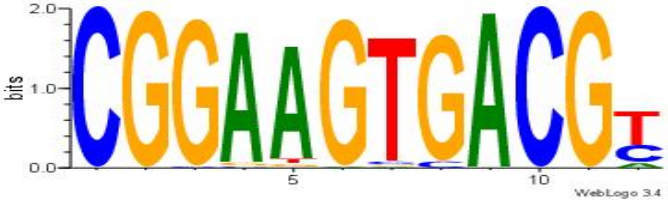

Reverse complement motif Consensus sequence: ACGTCACTTCCG

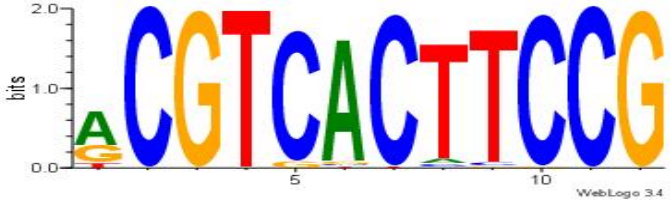

Dataset #:	1
Motif ID:	336

Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0771271

Alignment:

```
ATGTAACCAAAYACCACCTG
CTGTCACCCC----------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

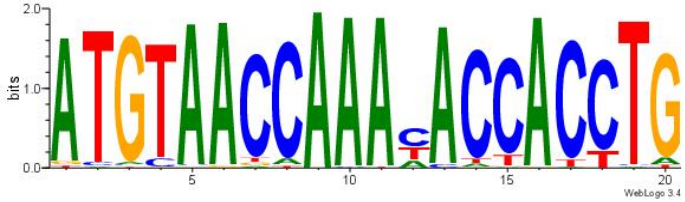

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

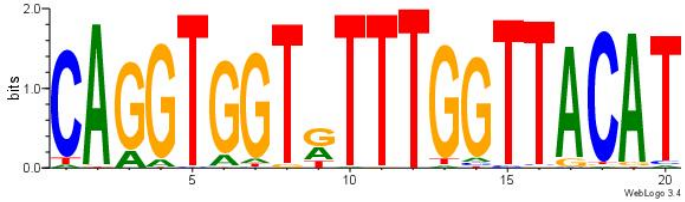

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0771924

Alignment:
AWTKKTGGTTKCCAGKGGCT
-----GGGGTGACAG-----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

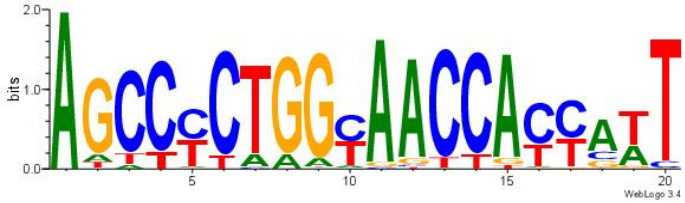

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

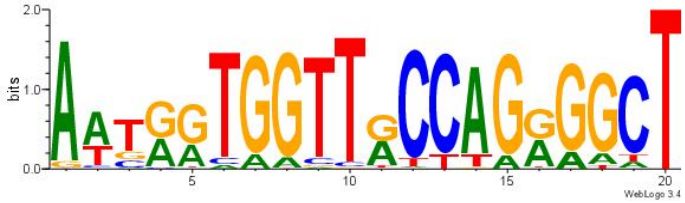

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0774486

Alignment:
AAGACCTTCCAGTGGGACAA
----------GGGGTGACAG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

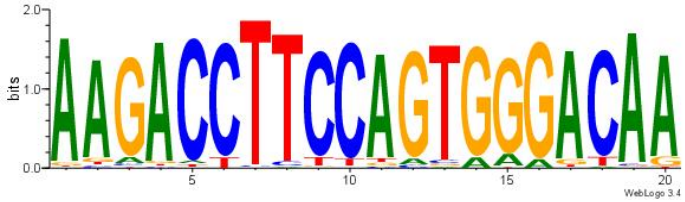

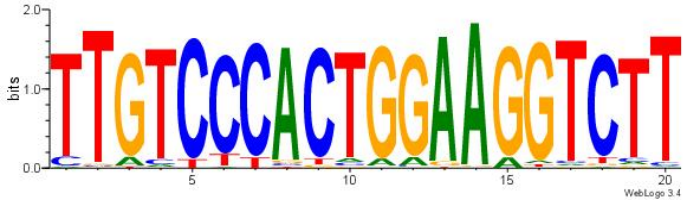

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0775172

Alignment:

```
CATCTGGAGCCCCA
---CTGTCACCCC-
```

Original motif Consensus sequence: CATCTGGAGCCCCA

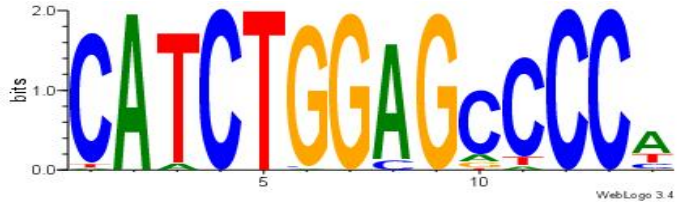

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

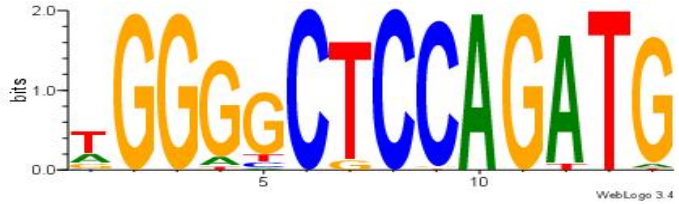

Dataset #:	1
Motif ID:	284

Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0779385

Alignment:

```
CATTTGGGAGCCCATTGA
---CTGTCACCCC-----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

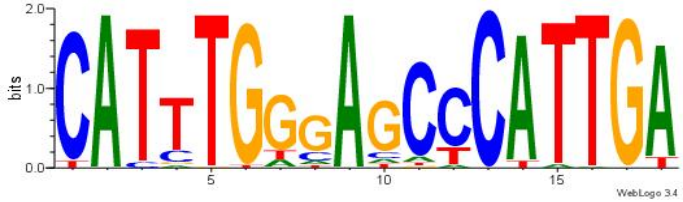

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

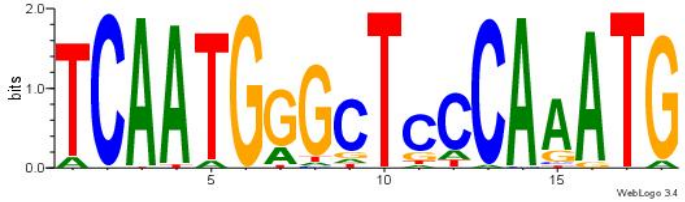

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0782065

Alignment:
AGATGCCAGCCAGAGCTCT
--CTGTCACCCC-------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

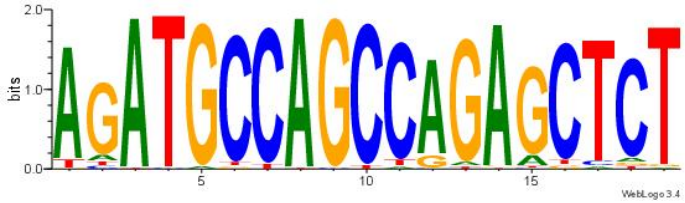

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

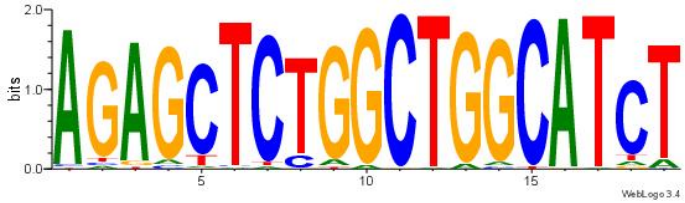

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0793042

Alignment:
CAAGTTGACACATAAAATTA
-GGGGTGACAG---------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

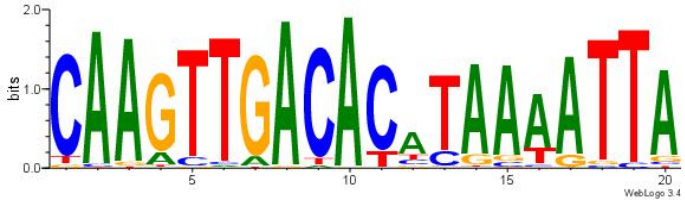

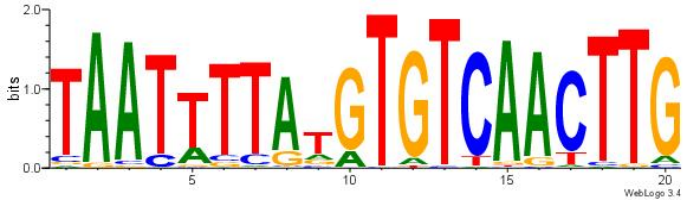

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0793516

Alignment:

```
CAGAAATCACCCGTCTT
---CTGTCACCCC----
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

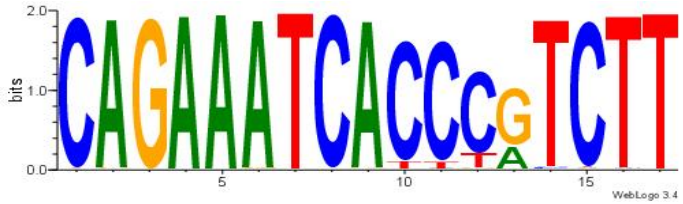

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

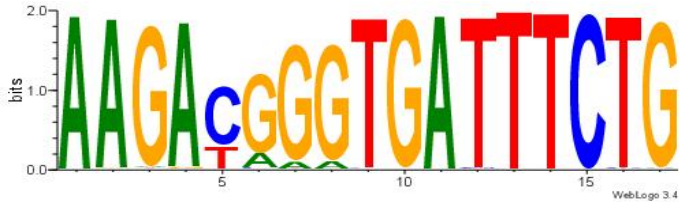

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0801282

Alignment:

```
AAGTCTCCCAATTACAACT
CTGTCACCCC---------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

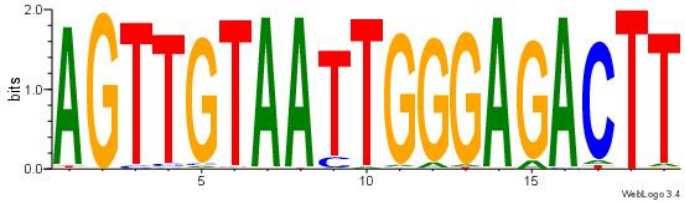

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

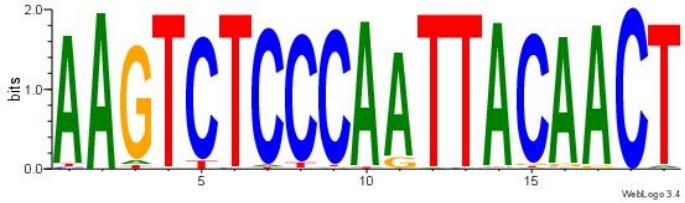

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0801455

Alignment:
GGGRSCACAGGAGCD
GGGGTGACAG-----

Original motif Consensus sequence: HGCTCCTGTGSKCCC

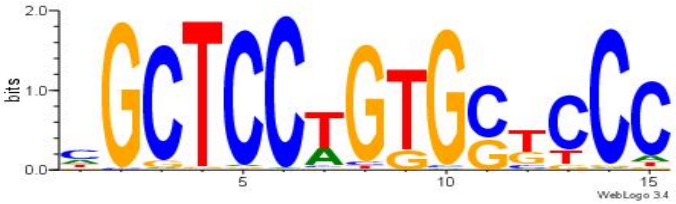

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

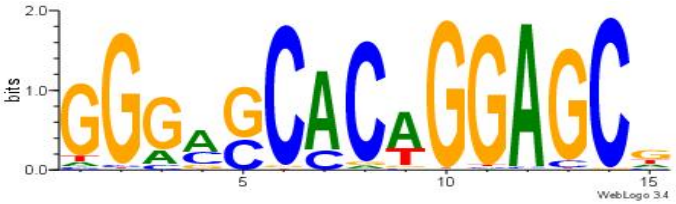

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0809381

Alignment:
GCTCACTGCAASCTC
-----CTGTCACCCC

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

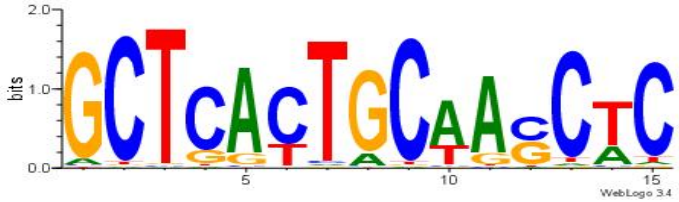

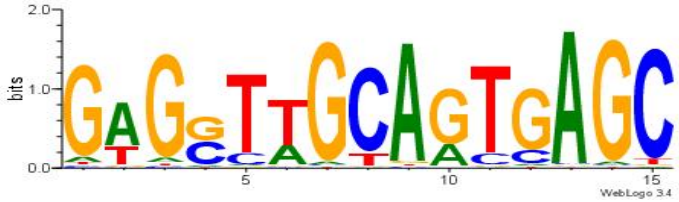

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0824192

Alignment:

```
GCTGTGTGACCTTGGGCAAG
--------GGGGTGACAG--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

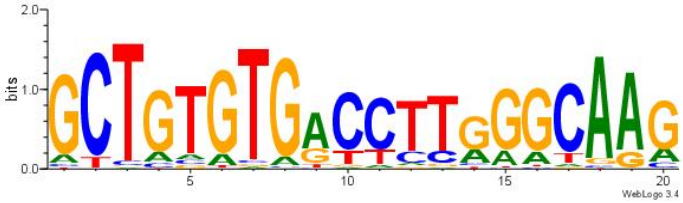

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

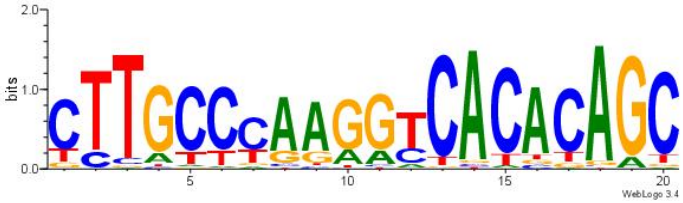

Dataset #: 1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0827219

Alignment:

```
CCTTGGCCAGCCCAGAAAG
---CTGTCACCCC------
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

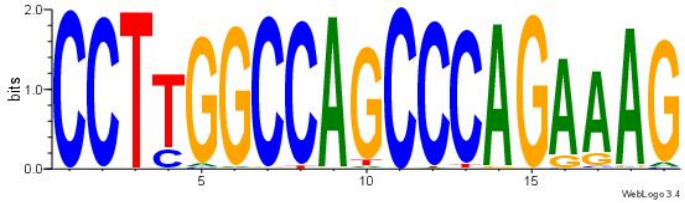

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

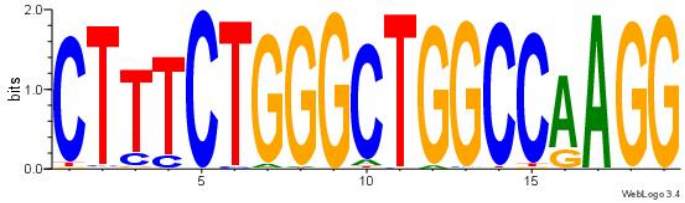

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.083998

Alignment:
GGATCCACTGGGTGAAGCCA
--GGGGTGACAG--------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

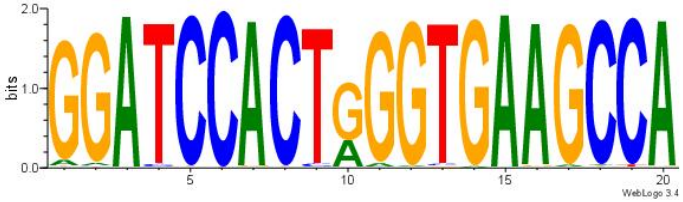

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

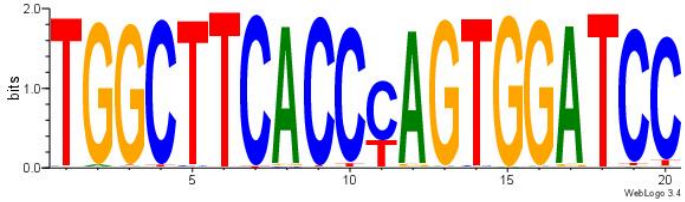

Dataset #: 1
Motif ID: 329
Motif name: Motif 329
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0840712

Alignment:
GGGAGGGATATATTAGC
-GGGGTGACAG------

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence:
GCTAATATATCCCTCCC

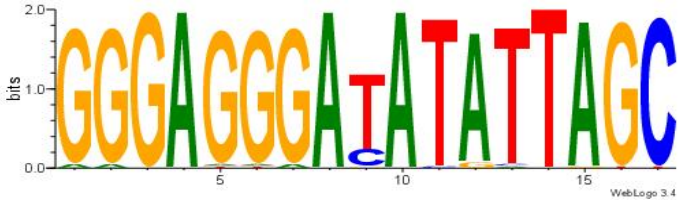

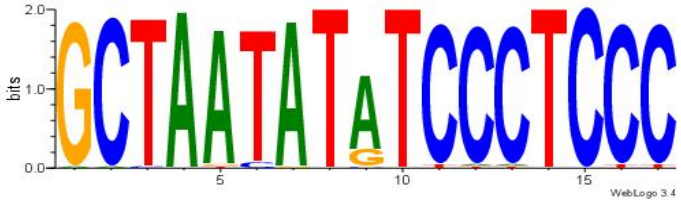

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0843404

Alignment:

```
ATGGTGAAACCC
--GGGGTGACAG
```

Original motif Consensus sequence: ATGGTGAAACCC

Reverse complement motif Consensus sequence: GGGTTTCACCAT

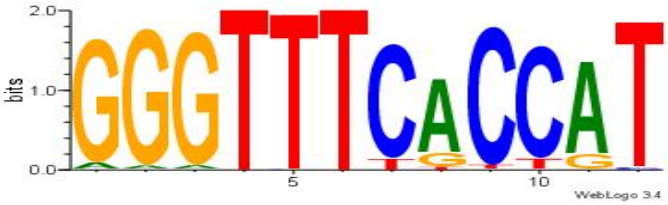

Dataset #:	1
Motif ID:	108

Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.084587

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CTGTCACCCC---------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

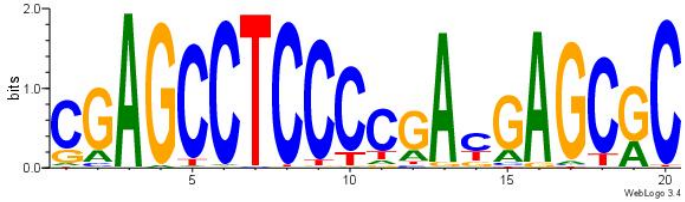

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

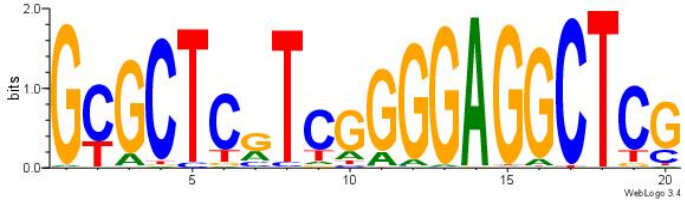

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0847526

Alignment:
AGCTGTGAGAAGAGGGCCAC
-GGGGTGACAG---------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

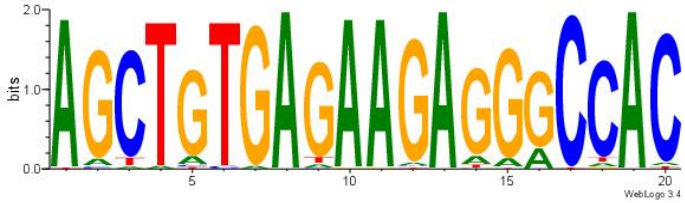

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

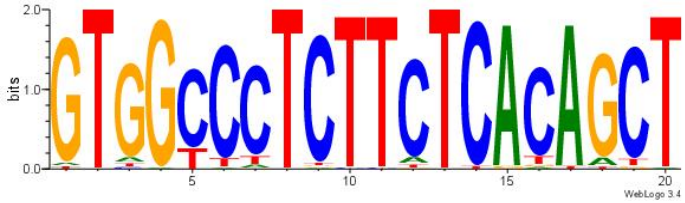

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0848598

Alignment:
AGGTATTTCTCCCACC
----CTGTCACCCC--

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence:
GGTGGGAGAAATACCT

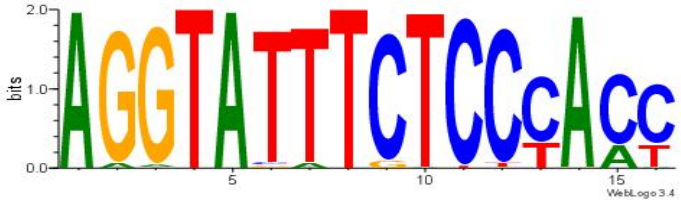

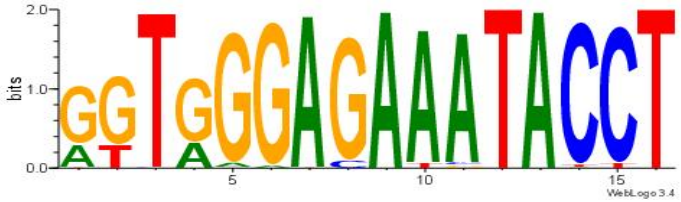

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0849406

Alignment:

```
AGTTCCGGGTGGGCGTGGG
----GGGGTGACAG-----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

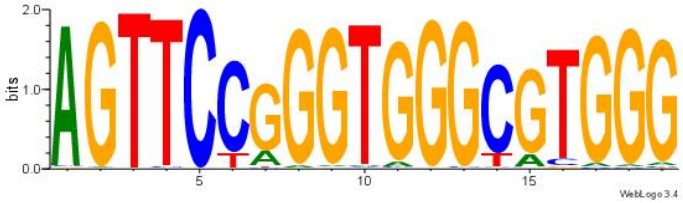

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

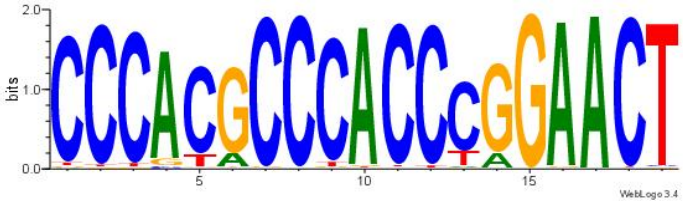

Dataset #:	1

Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0851918

Alignment:

```
GTGGGTGCAGTGCA
GGGGTGACAG----
```

Original motif Consensus sequence: TGCACTGCACCCAC

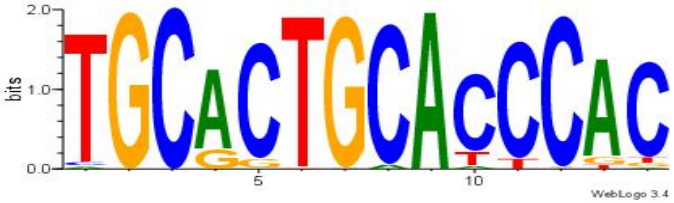

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

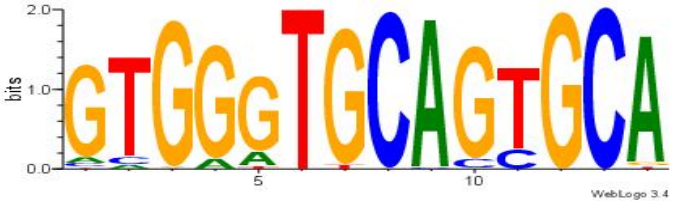

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0851919

Alignment:
ATCTCASAAATCACCACTA
-------CTGTCACCCC--

Original motif Consensus sequence: ATCTCASAAATCACCACTA

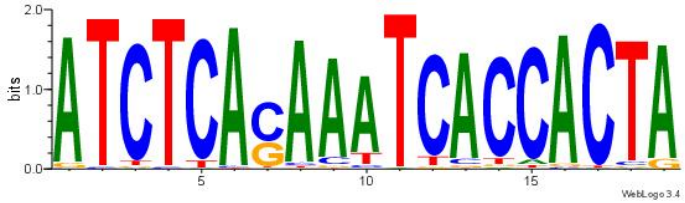

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

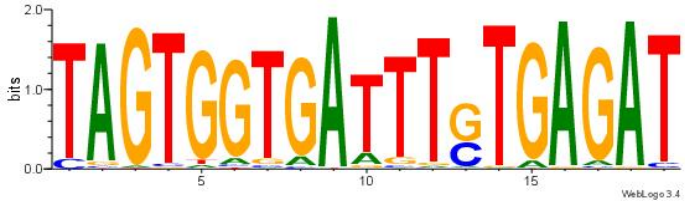

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0854979

Alignment:
GTGGGTGCGCGCA
--GGGGTGACAG-

Original motif Consensus sequence: GTGGGTGCGCGCA

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

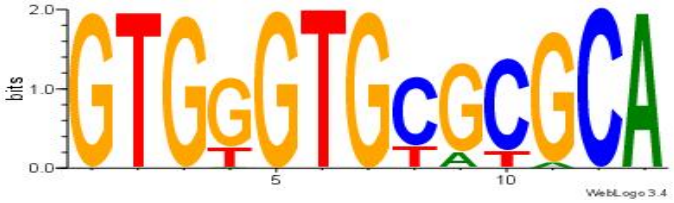

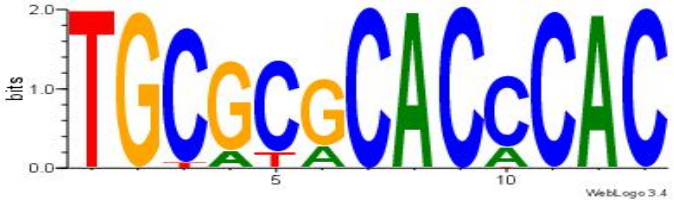

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0861377

Alignment:

```
TCGTTCACTCAGTGC
-CTGTCACCCC----
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

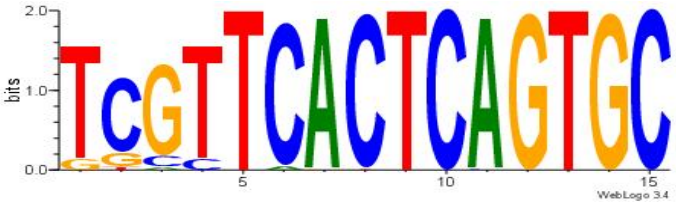

Dataset #:	1
Motif ID:	348

Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0861702

Alignment:

```
ATGGCCTATGACYGSTTTG
-----CTGTCACCCC----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

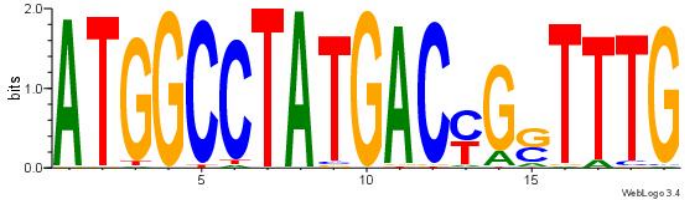

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

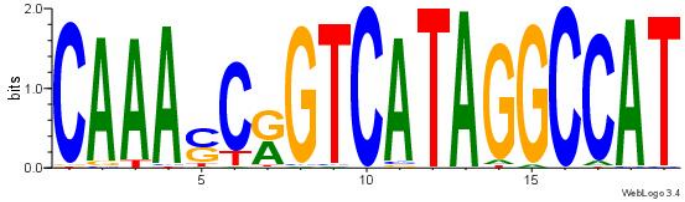

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0866184

Alignment:
GACTGGCAGGCAGCTCCACC
-------GGGGTGACAG---

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

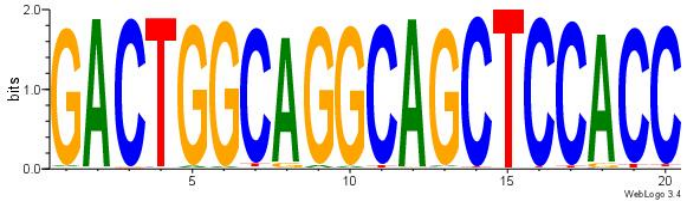

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

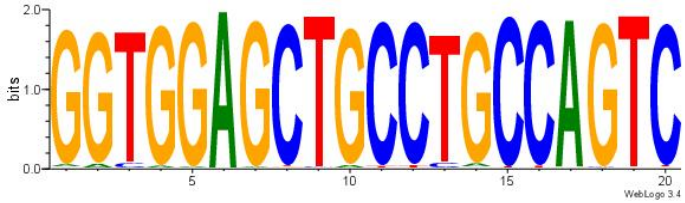

Dataset #: 1 Motif ID: 113 Motif name: Motif 113

Original motif Consensus sequence: CACTTCCTA

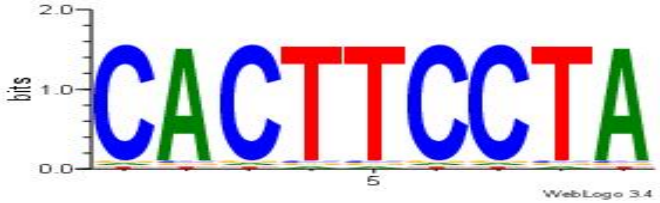

Reverse complement motif Consensus sequence: TAGGAAGTG

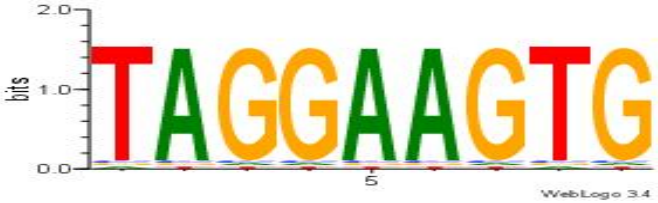

Best Matches for Significant Motif ID 113 (Highest to Lowest)

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number: 1
Number of overlap: 9
Similarity score: 0.0147795

Alignment:
CCATCTAGGAAGTG
-----TAGGAAGTG

Original motif Consensus sequence: CACTTCCTAGATGG

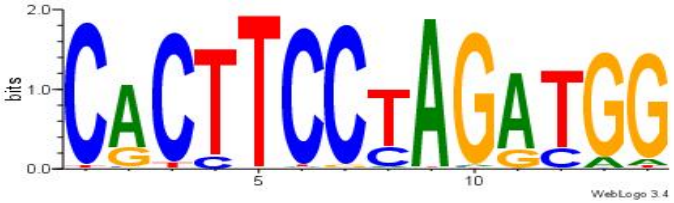

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

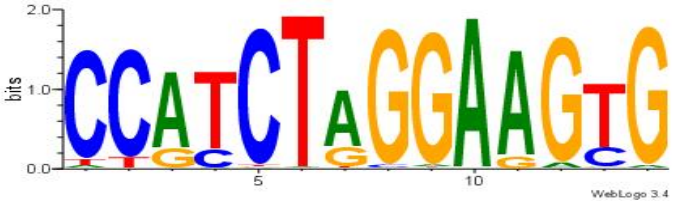

Dataset #: 1
Motif ID: 153
Motif name: Motif 153
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0332374

Alignment:
GGCACTCCCTAGTG
--CACTTCCTA---

Original motif Consensus sequence: CACTAGGGAGTGCC

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

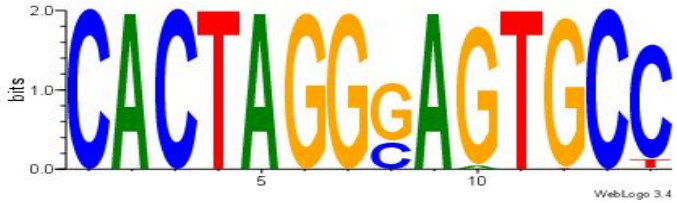

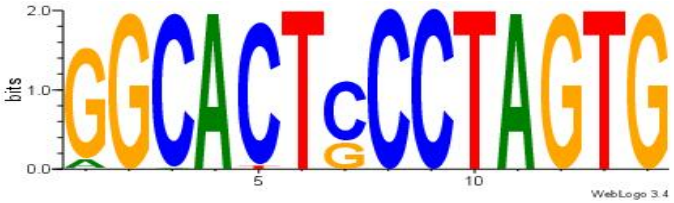

Dataset #:	1
Motif ID:	156
Motif name:	Motif 156
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0333368

Alignment:

```
GTCTGGGAAGTG
---TAGGAAGTG
```

Original motif Consensus sequence: CACTTCCCAGAC

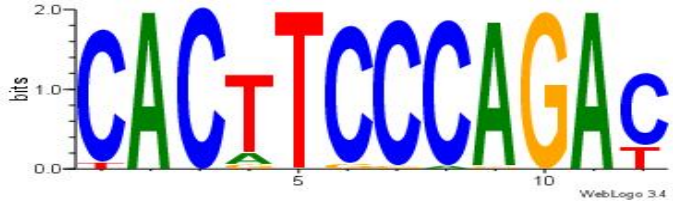

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

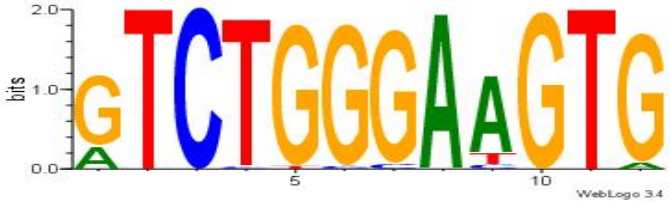

Dataset #:	1

Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0419916

Alignment:

```
CACTTCCCAGACGGGGCG
CACTTCCTA---------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

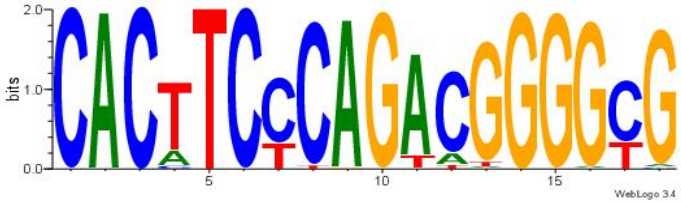

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

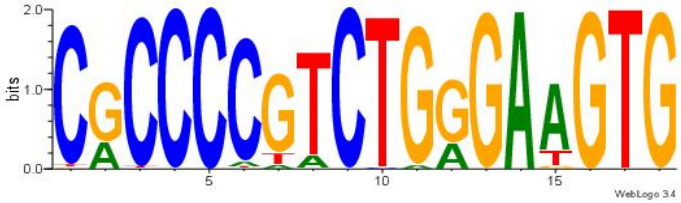

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.0431985

Alignment:
GCAGGAGGTGAG
-TAGGAAGTG--

Original motif Consensus sequence: CTCACCTCCTGC

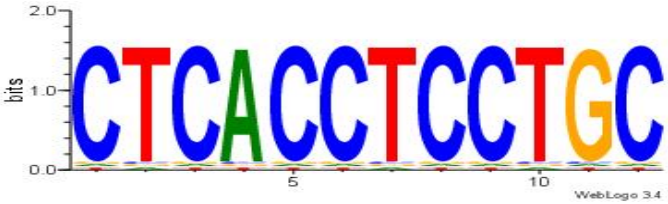

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

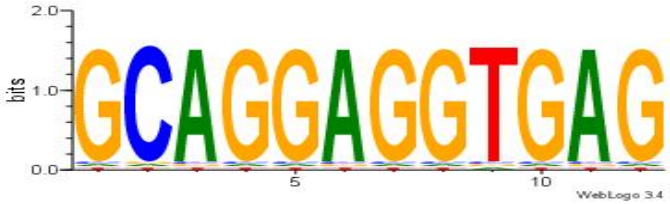

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 9
Similarity score: 0.0506193

Alignment:
GAAATTGACTTCCTCCT
------CACTTCCTA--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

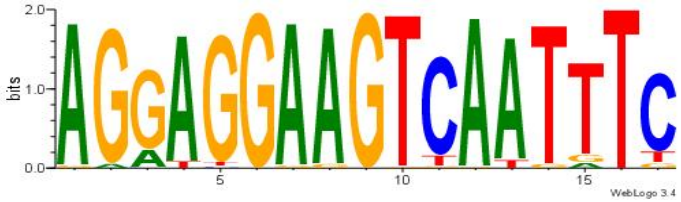

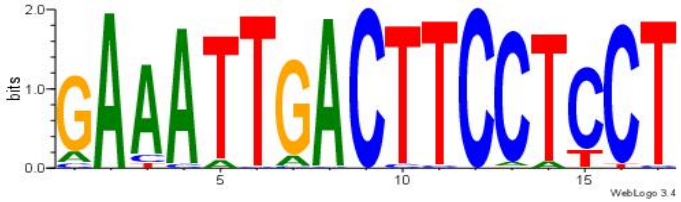

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0510147

Alignment:

```
CACCTCCCAGACMGGGT
--------CACTTCCTA
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

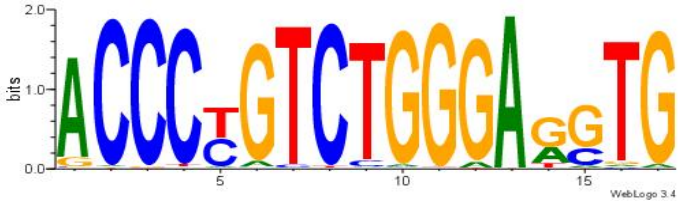

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

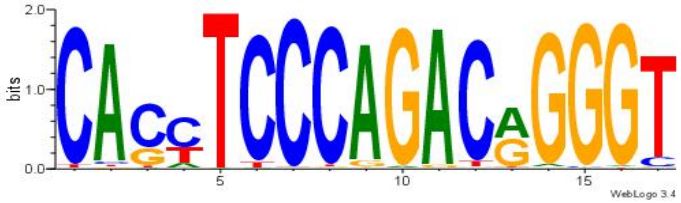

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0540203

Alignment:

```
GTGTCCCCTTCCTCCC
-----CACTTCCTA--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

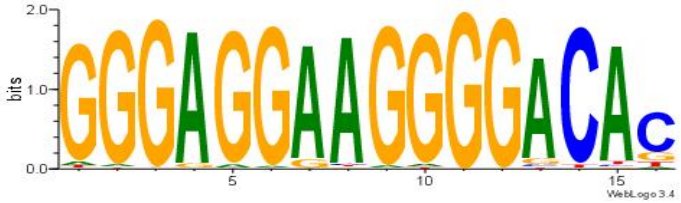

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

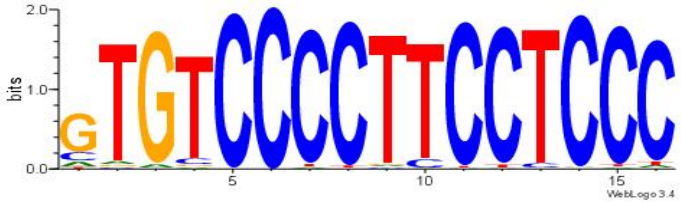

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9

Similarity score: 0.0566738

Alignment:
CCCAAATCCTATAAAA
--CACTTCCTA-----

Original motif Consensus sequence: CCCAAATCCTATAAAA

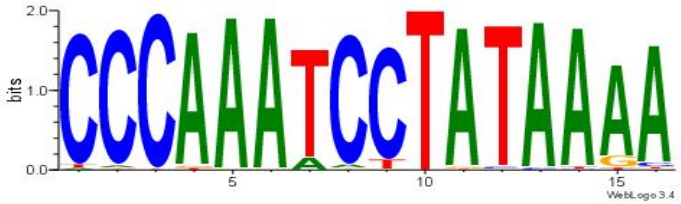

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

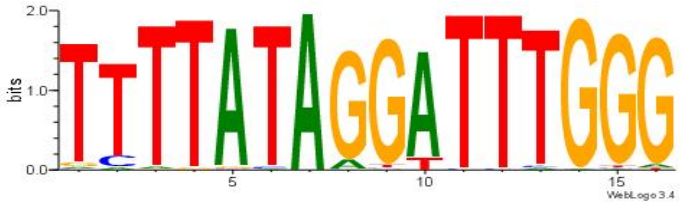

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0574089

Alignment:
CACTTTCCAGACTGGGCA
---------CACTTCCTA

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

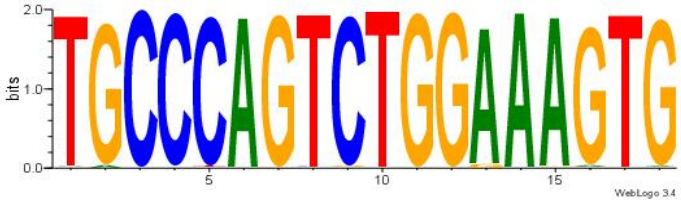

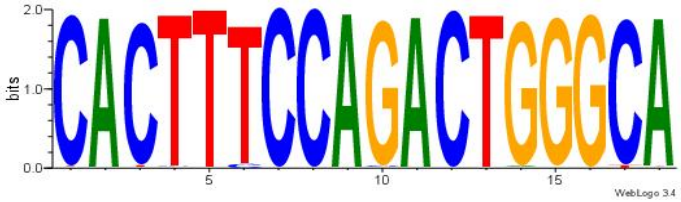

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0581949

Alignment:

```
CATAGGAGATGAC
--TAGGAAGTG--
```

Original motif Consensus sequence: CATAGGAGATGAC

Reverse complement motif Consensus sequence: GTCATCTCCTATG

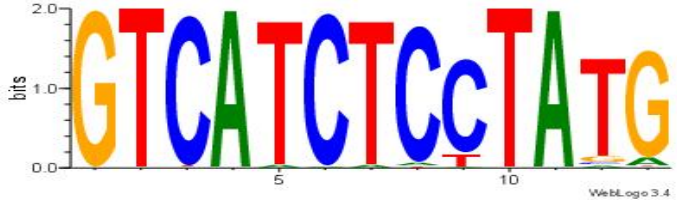

Dataset #:	1
Motif ID:	15

Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0605839

Alignment:

```
CTTGCGCTTCCCRRGTGA
----CACTTCCTA-----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

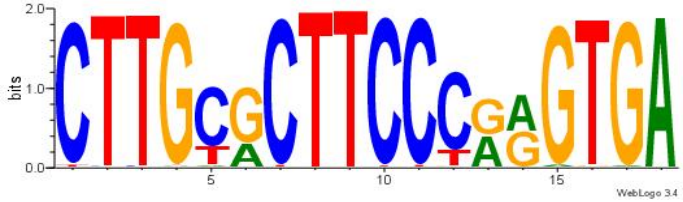

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

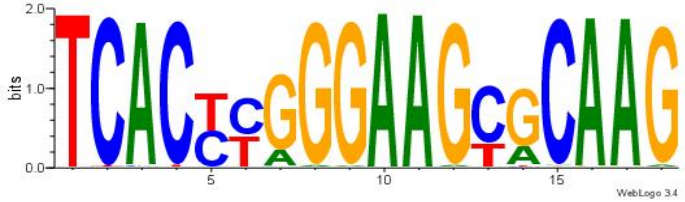

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.068451

Alignment:
TTGAGGAGGCAGTCTG
-----TAGGAAGTG--

Original motif Consensus sequence: CAGACTGCCTCCTCAA

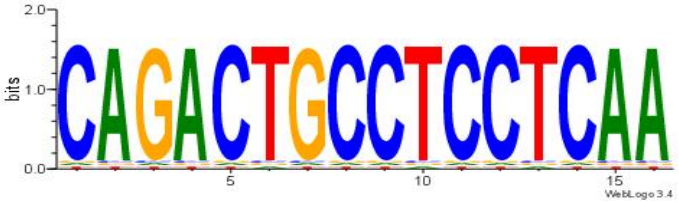

Reverse complement motif Consensus sequence:
TTGAGGAGGCAGTCTG

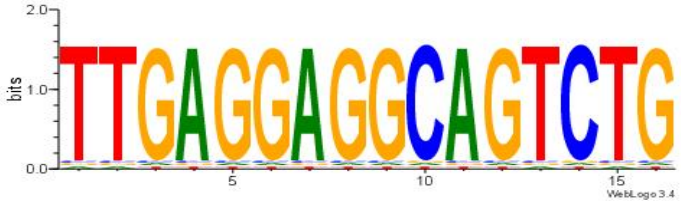

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0698547

Alignment:
CCCTCACTGCCCGGGG
----CACTTCCTA---

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence:
CCCCGGGCAGTGAGGG

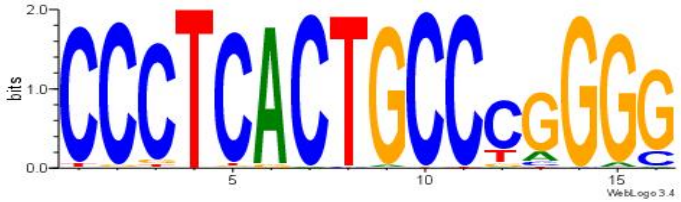

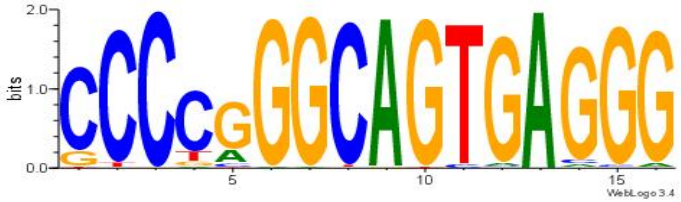

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 9
Similarity score: 0.0712034

Alignment:
AGGTCCTTCAGGAGGTATTC
--------TAGGAAGTG---

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

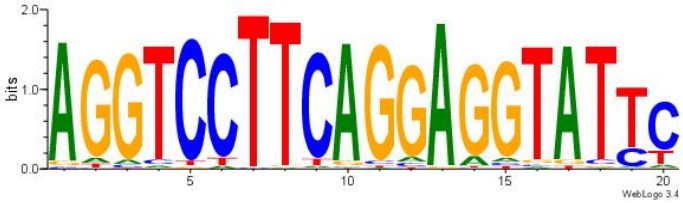

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

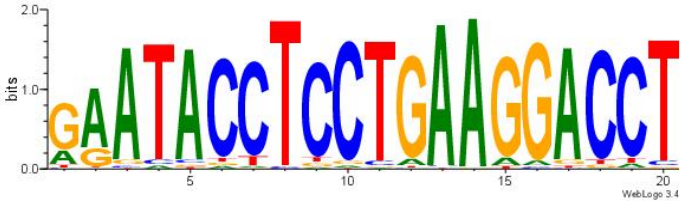

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0730688

Alignment:

```
GAAACTGCTTTGTGATGTGT
----------TAGGAAGTG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

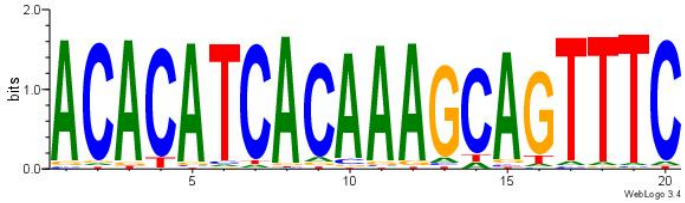

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

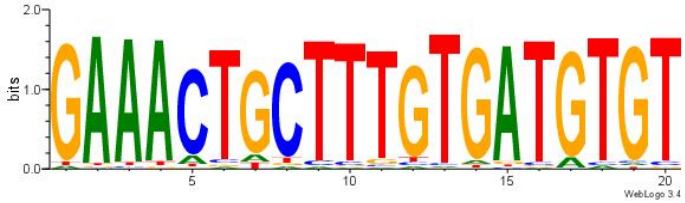

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.0732357

Alignment:
CATTTCCAWCTGAGGTAC
CACTTCCTA---------

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

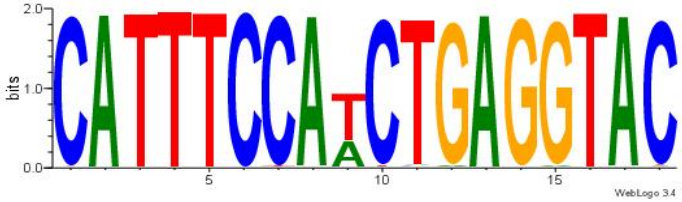

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

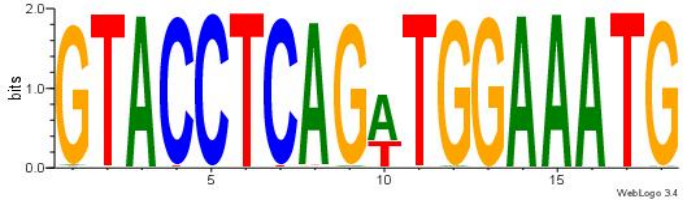

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.073485

Alignment:
GCCAATTTCTCCCATTTGGA
--CACTTCCTA---------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

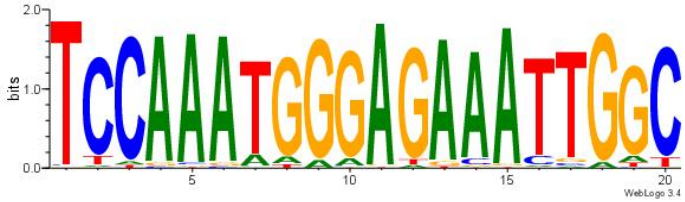

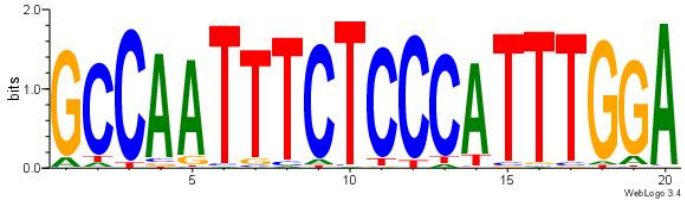

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0738929

Alignment:

```
GTTATTAATTGGCCTAATTT
--TAGGAAGTG---------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

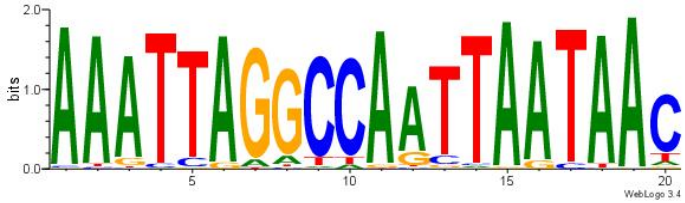

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0748509

Alignment:

```
ATCTGACAGGAGGYRGAGCT
------TAGGAAGTG-----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

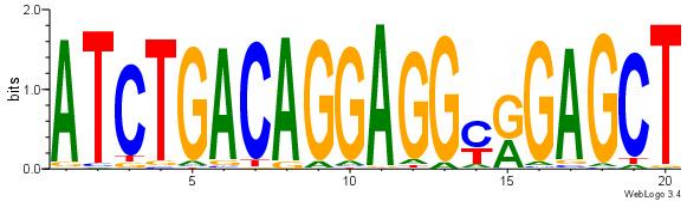

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

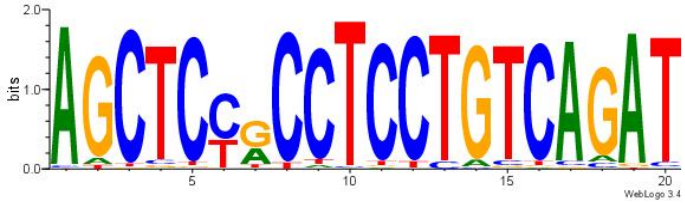

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.0757566

Alignment:
GGTTTTCCATTCCTGAG
------CACTTCCTA--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

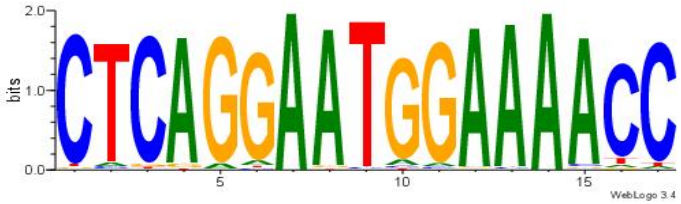

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

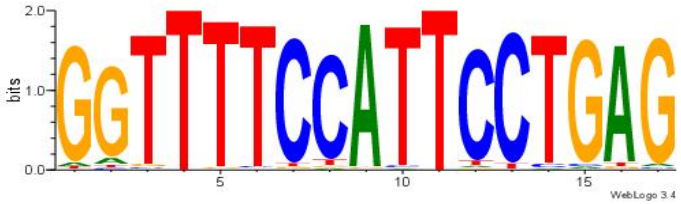

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 9
Similarity score: 0.0769531

Alignment:
GCAGCTTCACTCCTGA
-------CACTTCCTA

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

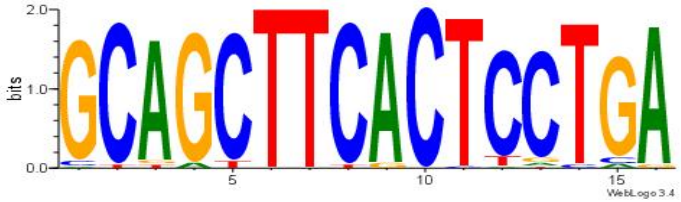

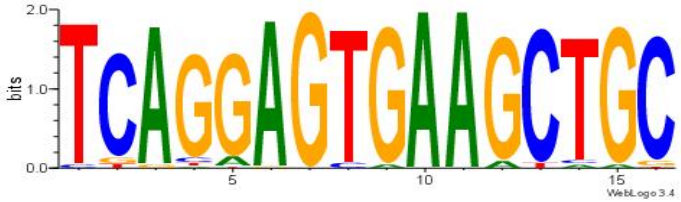

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0771042

Alignment:

```
AAGTCTCCCAATTACAACT
--------CACTTCCTA--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

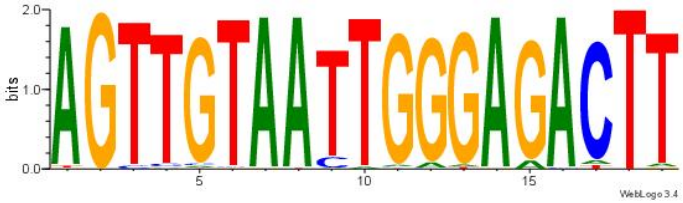

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

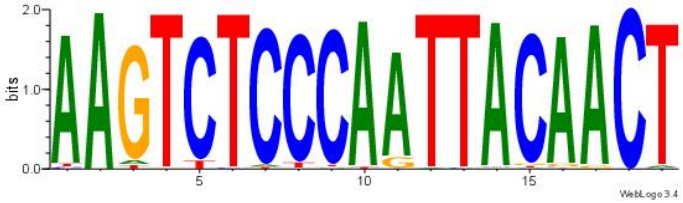

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0785197

Alignment:

```
TCTGGAGTGGACCTCCAGCA
TAGGAAGTG-----------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

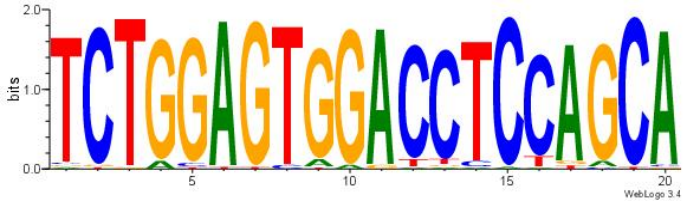

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

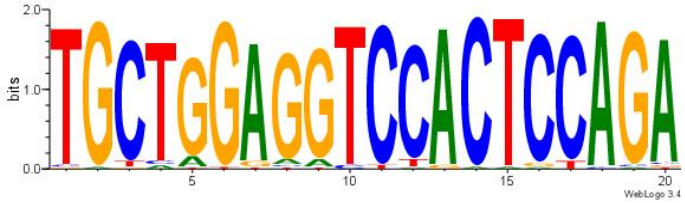

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9

Similarity score: 0.0789862

Alignment:
CTCCATGAAGTC
---TAGGAAGTG

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

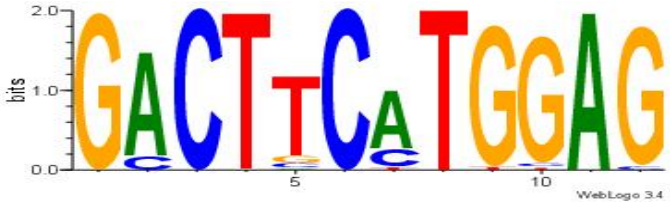

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 9
Similarity score: 0.0791789

Alignment:
GGAGGTGTGGAGGGAGAGGC
---------TAGGAAGTG--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

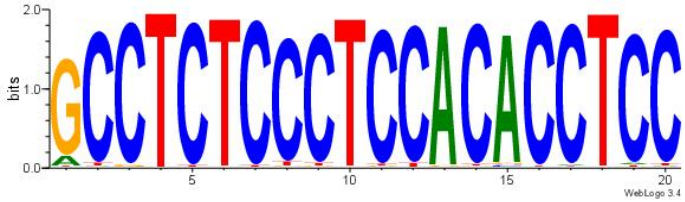

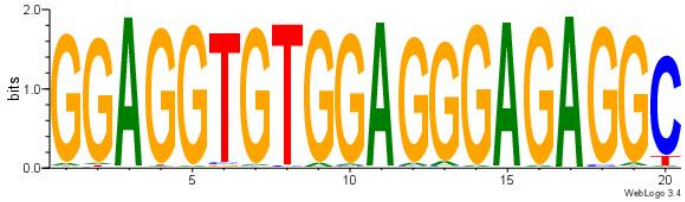

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0797624

Alignment:

```
AACCCTATTGTGAACTGYG
--------TAGGAAGTG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

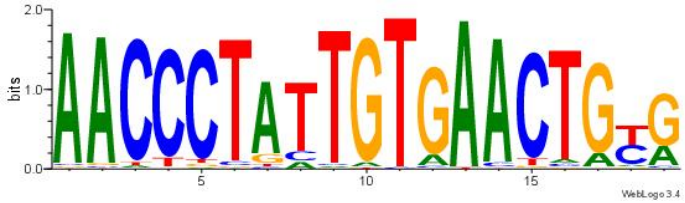

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

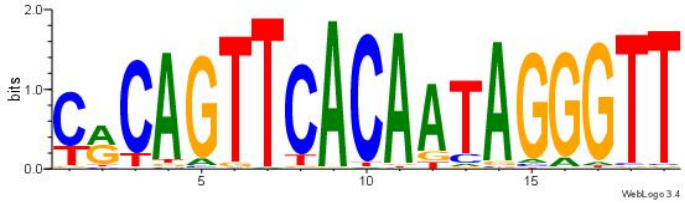

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0803929

Alignment:

```
ATGTGGAGGTGGAAGACAGT
--TAGGAAGTG---------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

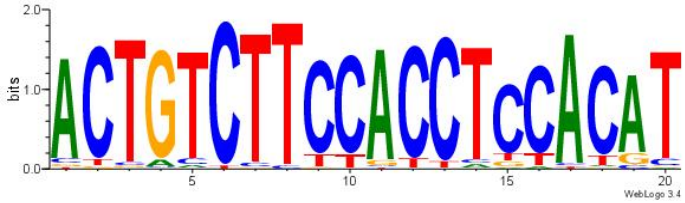

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

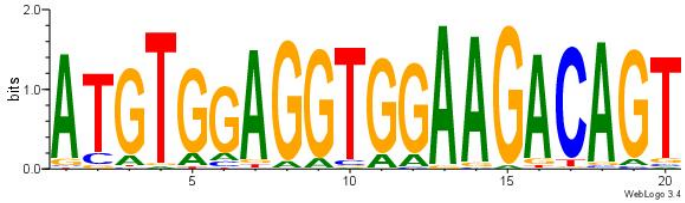

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9

Similarity score: 0.0806884

Alignment:
CCCTGCTAGAACCTCCAA
---------CACTTCCTA

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

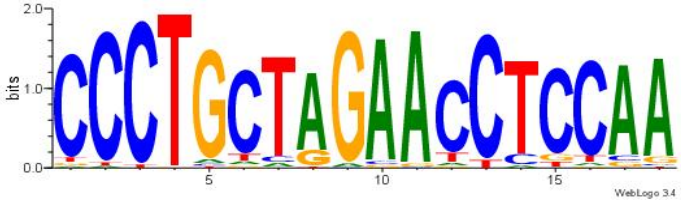

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

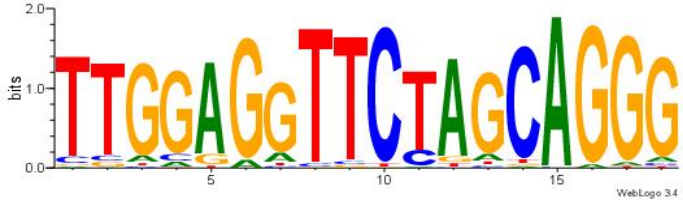

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 9
Similarity score: 0.0813477

Alignment:
GGATTTMKGACTTGCATGGG
-----TAGGAAGTG------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

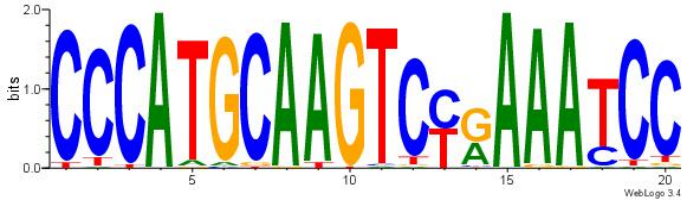

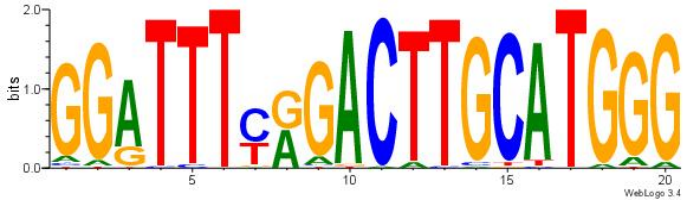

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0817538

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----TAGGAAGTG------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

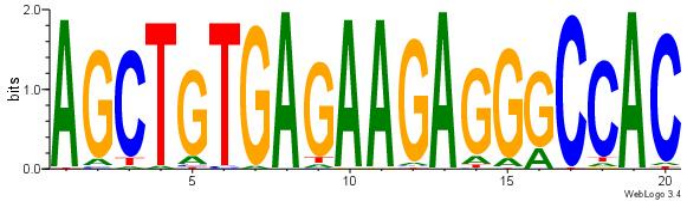

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

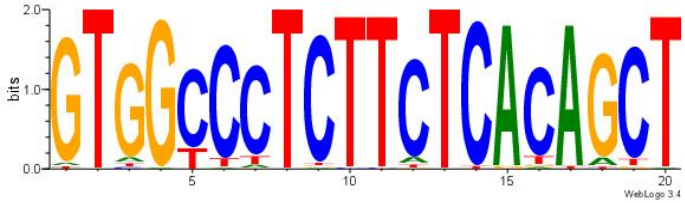

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0818926

Alignment:

```
ATAAAAACTTGCTGGTTTT
-----CACTTCCTA-----
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

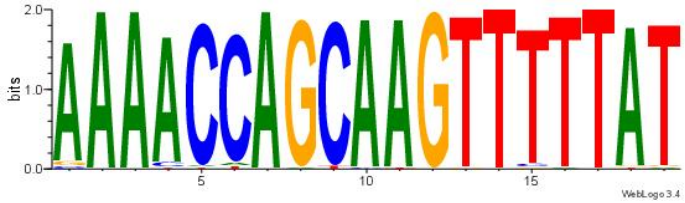

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

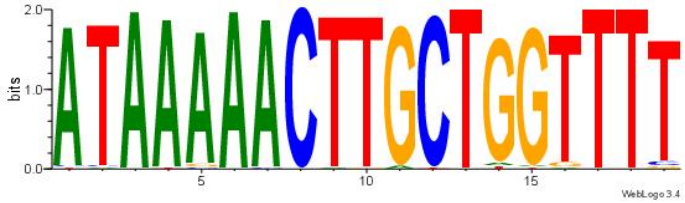

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9

Similarity score: 0.0819688

Alignment:
TGTGAAGAGACCACCAA
TAGGAAGTG--------

Original motif Consensus sequence: TGTGAAGAGACCACCAA

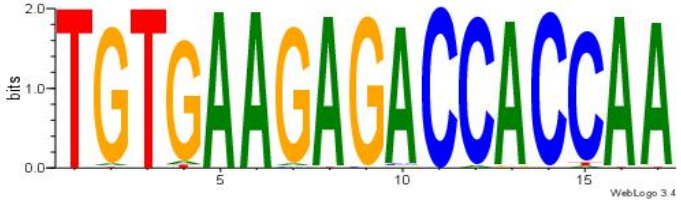

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

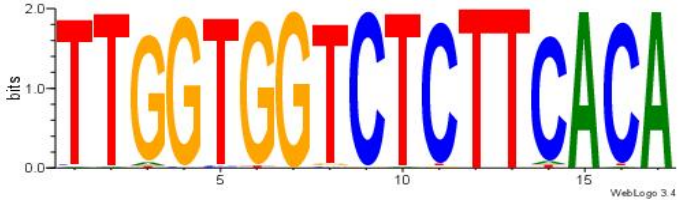

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 9
Similarity score: 0.082416

Alignment:
GGCATCACGGATCCTACCAA
-------CACTTCCTA----

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

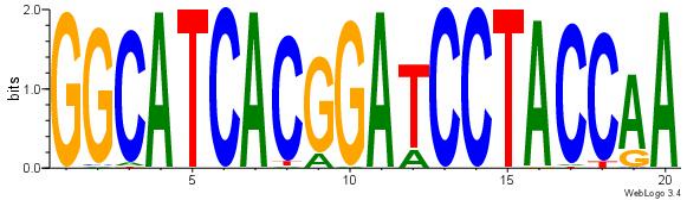

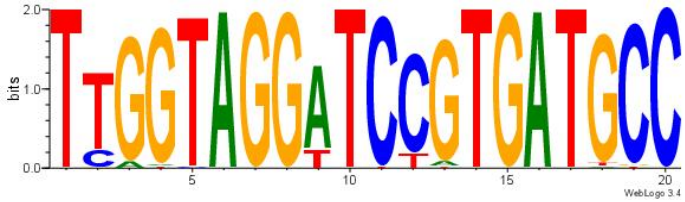

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0824281

Alignment:

```
TAMGACCTCAGGTCCTCAG
--------CACTTCCTA--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

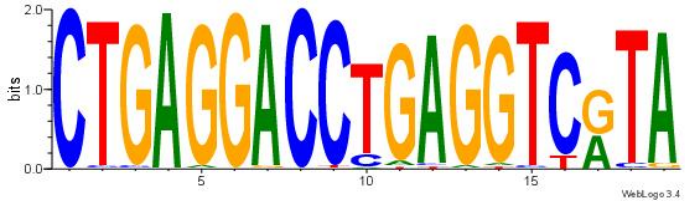

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

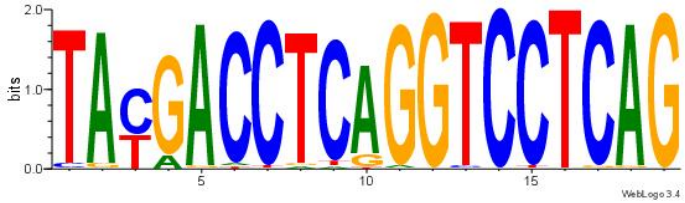

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0827518

Alignment:

```
AAGCAGGGCGAGGCATTGCC
--TAGGAAGTG---------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

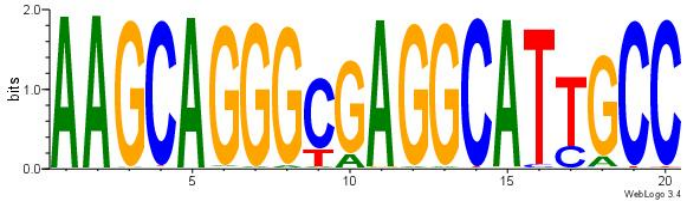

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

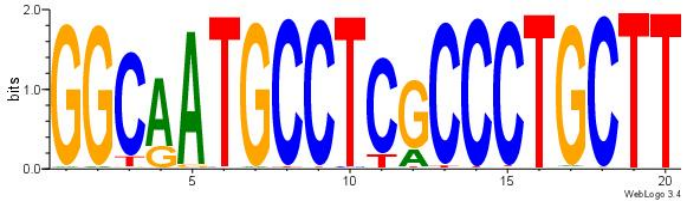

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0831342

Alignment:
CCCACACCCTTATTA
--CACTTCCTA----

Original motif Consensus sequence: CCCACACCCTTATTA

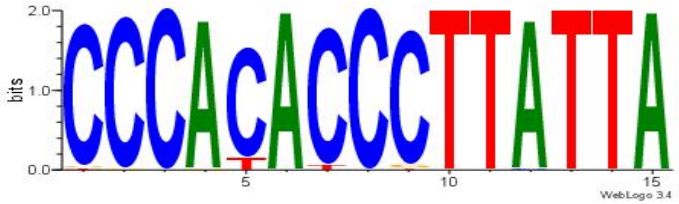

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

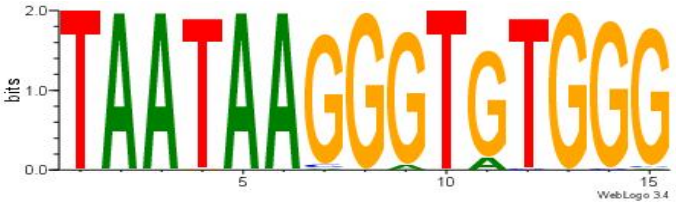

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.0838574

Alignment:
AGGAGCGCCTCTKCCCGGC
--------CACTTCCTA--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

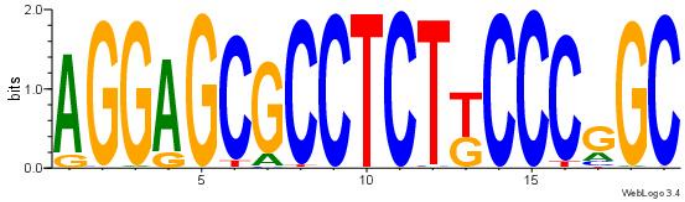

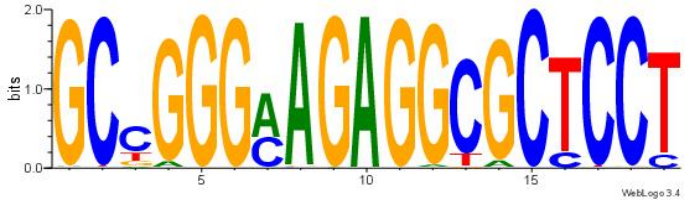

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0838751

Alignment:

```
CATTATGCTAARTG
-----TAGGAAGTG
```

Original motif Consensus sequence: CATTATGCTAARTG

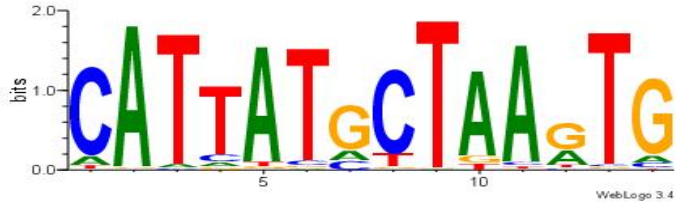

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

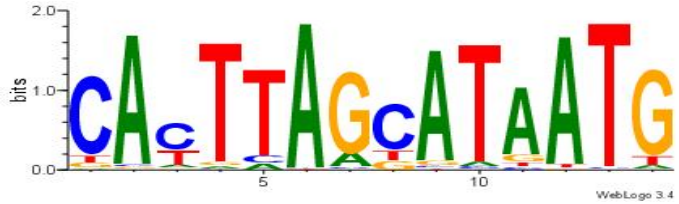

Dataset #:	1
Motif ID:	247

Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0845004

Alignment:

```
GCCTCACTGCCRC
----CACTTCCTA
```

Original motif Consensus sequence: GCCTCACTGCCRC

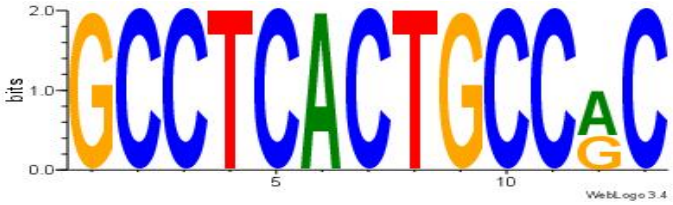

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

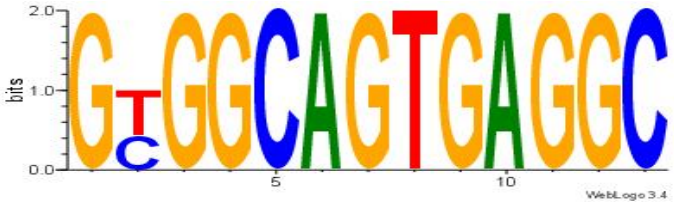

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0852793

Alignment:
CAAGCCTSKGCAATGGCAGG
------TAGGAAGTG-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

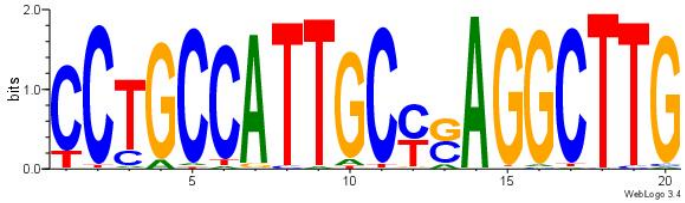

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

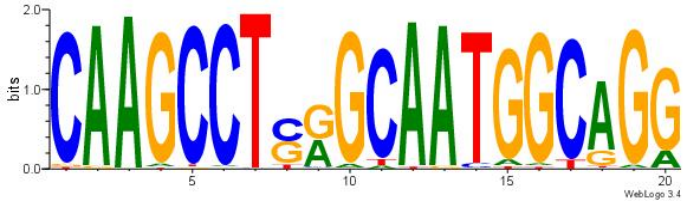

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0853902

Alignment:
GCCAGGCAGAGRGKCTCCT
--------TAGGAAGTG--

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

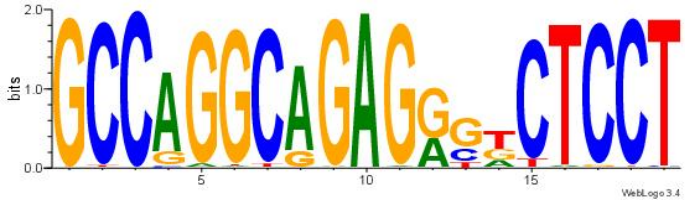

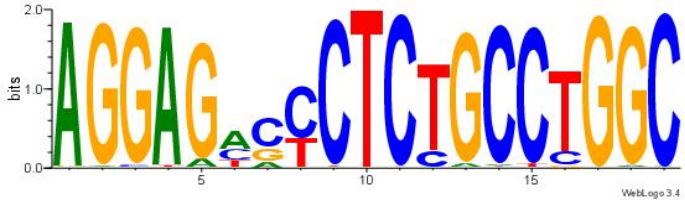

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0873634

Alignment:

```
GTGCCAGGCACTGTKCTARG
-------TAGGAAGTG----
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

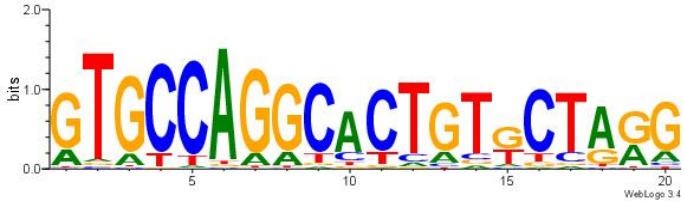

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

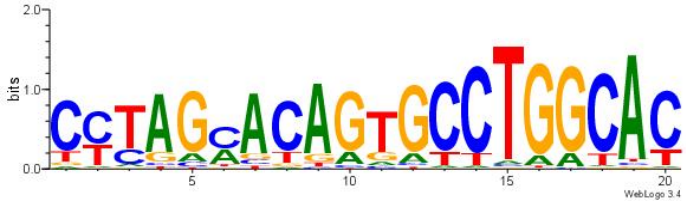

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0877104

Alignment:

```
AGGGATCTAGGTTGCR
-------TAGGAAGTG
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

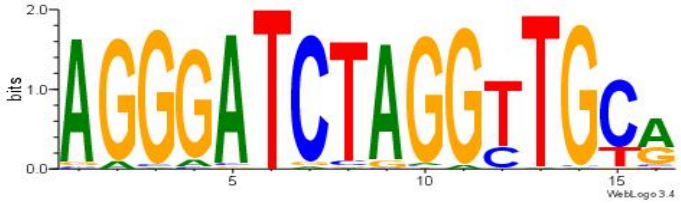

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

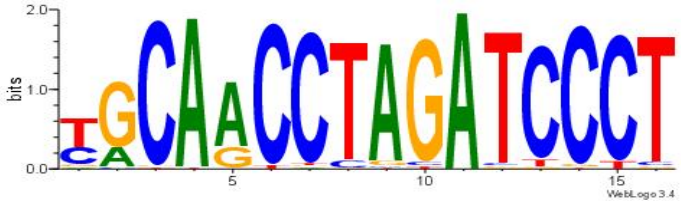

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0877384

Alignment:
CGCACTCCTCAGCC
--CACTTCCTA---

Original motif Consensus sequence: CGCACTCCTCAGCC

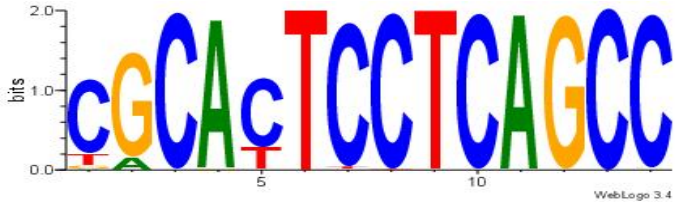

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

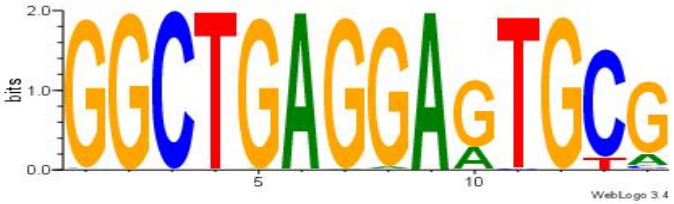

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0879414

Alignment:
ATAGGAATGCTTGTGATTTT
-TAGGAAGTG----------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

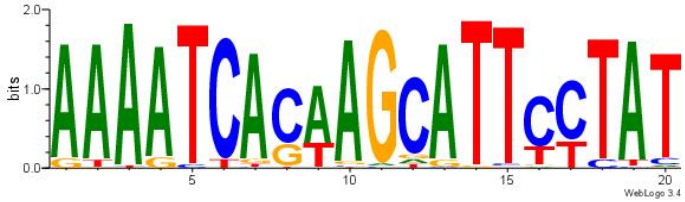

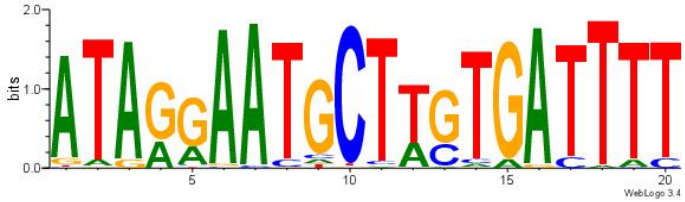

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.088762

Alignment:

```
AAGGAAAAGAAA
---TAGGAAGTG
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

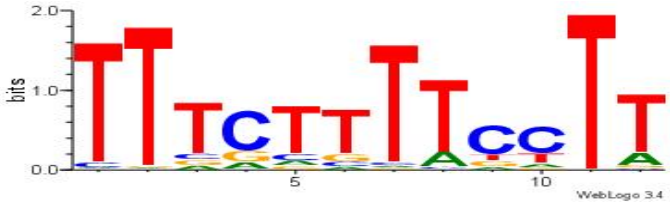

Dataset #:	1
Motif ID:	16

Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0887777

Alignment:

```
GAAAGGGAACTCCCTGACCC
-------CACTTCCTA----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

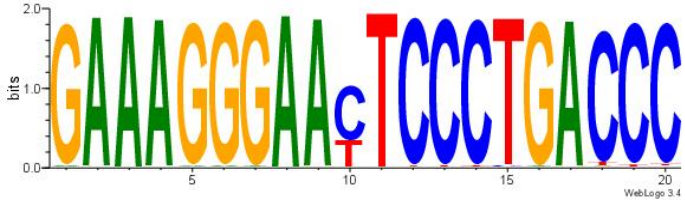

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

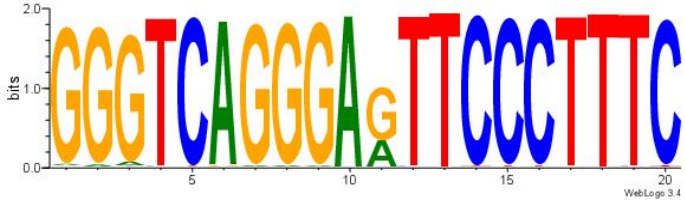

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0889205

Alignment:
TAAAAGACTACAWATTGGGT
-----CACTTCCTA------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

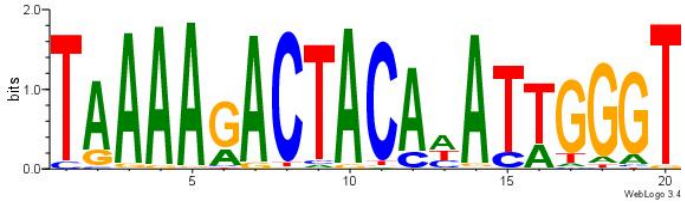

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

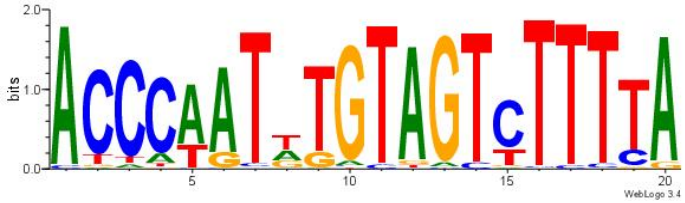

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0898346

Alignment:
GCCGTTTKTTAAGCCCGTY
--CACTTCCTA--------

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

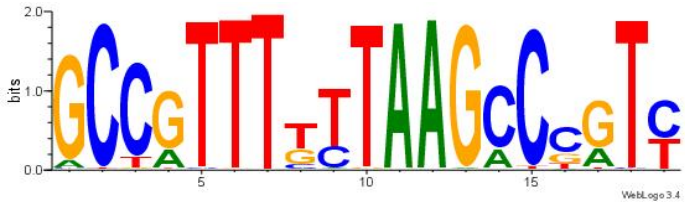

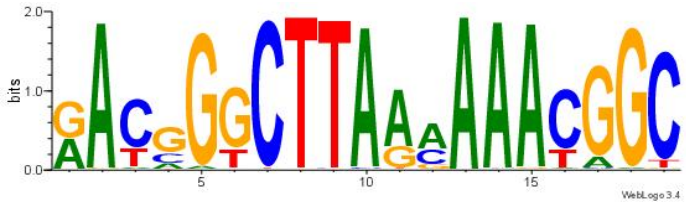

Dataset #: 1 **Motif ID: 71** **Motif name: Motif 71**

Original motif Consensus sequence: AGCACTTTG

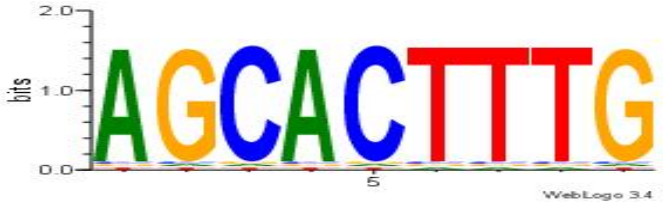

Reverse complement motif Consensus sequence: CAAAGTGCT

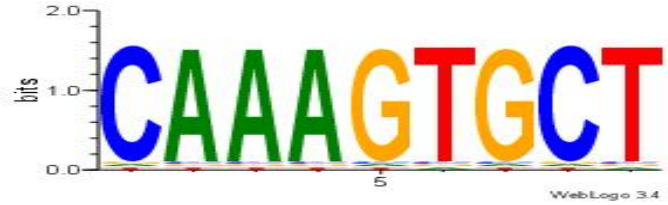

Best Matches for Significant Motif ID 71 (Highest to Lowest)

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.039262

Alignment:

```
AGCAGYTTGGAAACACT
AGCACTTTG--------
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

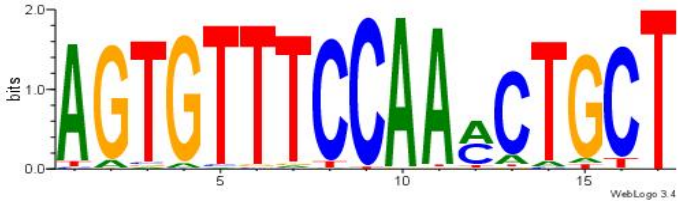

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

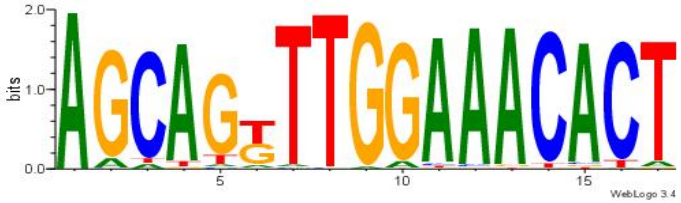

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0420544

Alignment:

```
CAAACTGCAAG
CAAAGTGCT--
```

Original motif Consensus sequence: CAAACTGCAAG

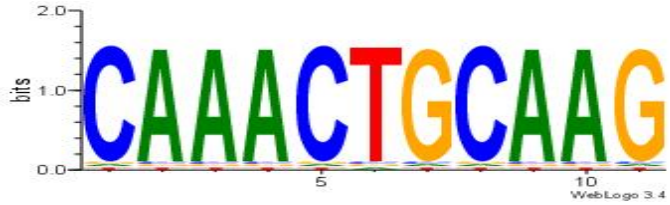

Reverse complement motif Consensus sequence: CTTGCAGTTTG

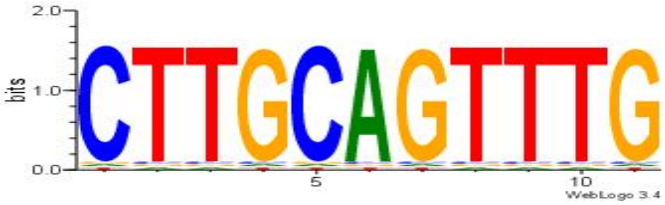

Dataset #:	1
Motif ID:	134
Motif name:	Motif 134
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0420544

Alignment:

```
CAAACTGCA
CAAAGTGCT
```

Original motif Consensus sequence: CAAACTGCA

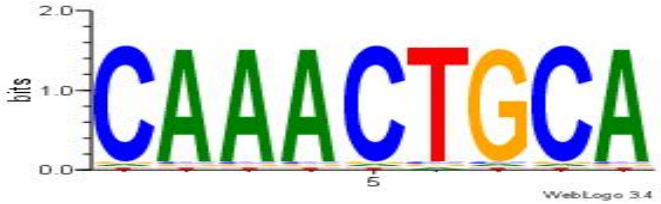

Reverse complement motif Consensus sequence: TGCAGTTTG

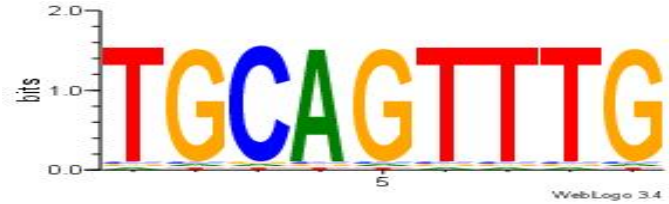

Dataset #:	1
Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0420544

Alignment:
CTCAGACTGCT
--CAAAGTGCT

Original motif Consensus sequence: AGCAGTCTGAG

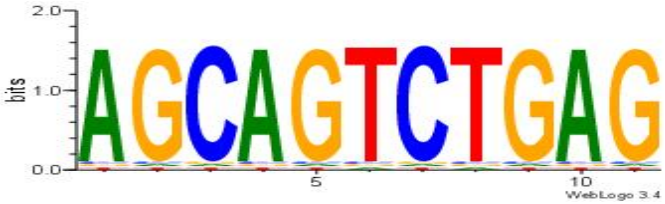

Reverse complement motif Consensus sequence: CTCAGACTGCT

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 9
Similarity score: 0.0501263

Alignment:
GAAACTGCTTTGTGATGTGT
CAAAGTGCT----------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

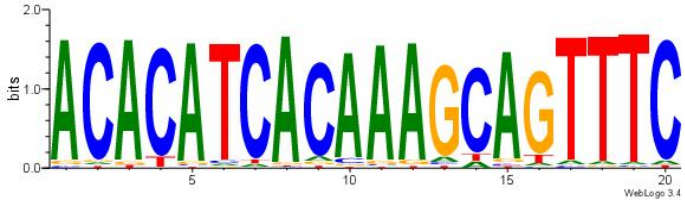

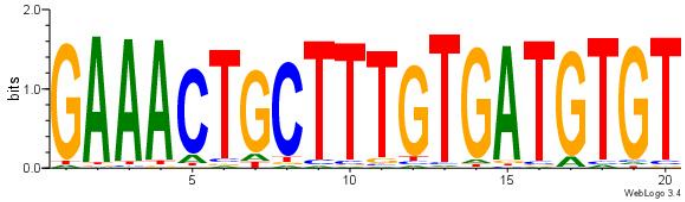

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0513335

Alignment:

```
TCAATGGGCTCCCAAATG
-CAAAGTGCT--------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

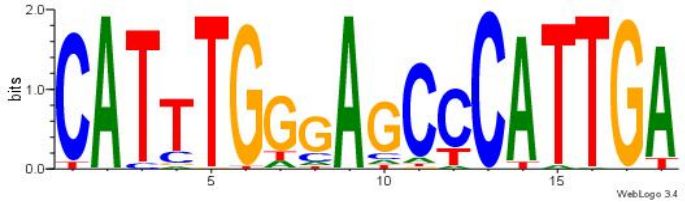

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

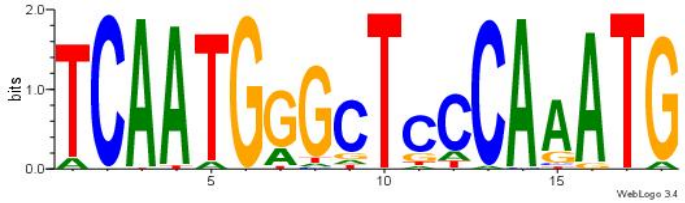

Dataset #:	1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0519557

Alignment:

```
CAAAGTCTTAACTCATT
CAAAGTGCT--------
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

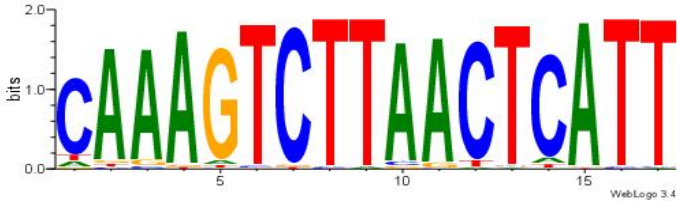

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0550113

Alignment:
GGGCTCCCACAGTGCAGCGG
-------CAAAGTGCT----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

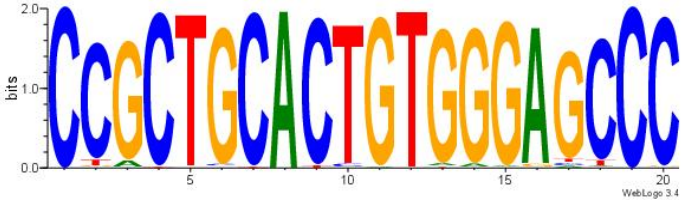

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

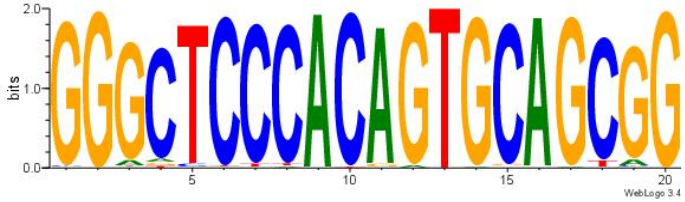

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 12
Number of overlap: 9
Similarity score: 0.0604828

Alignment:
AAGTCCAAGATCAAGGTGYY
-----------CAAAGTGCT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

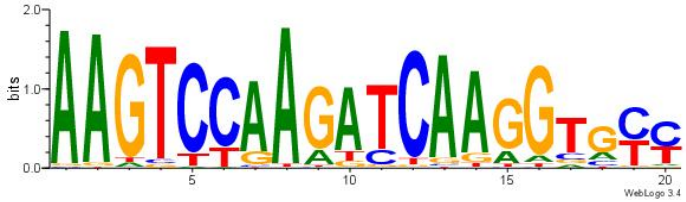

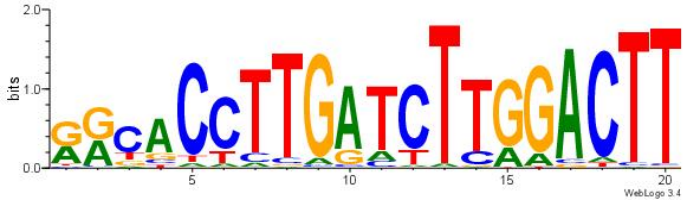

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0639384

Alignment:

```
CTATTGTGAATARTGCTGC
--CAAAGTGCT--------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

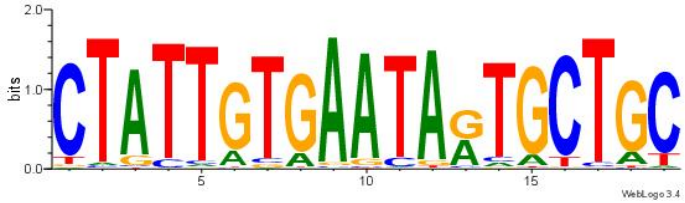

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

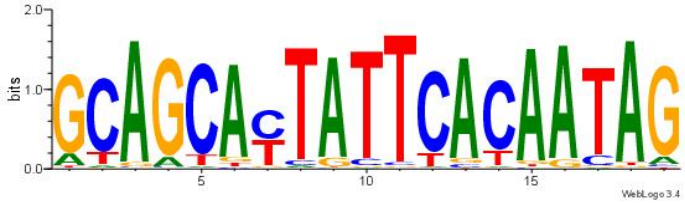

Dataset #: 1

Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.066974

Alignment:

```
CCATGTGSTCCC
CAAAGTGCT---
```

Original motif Consensus sequence: CCATGTGSTCCC

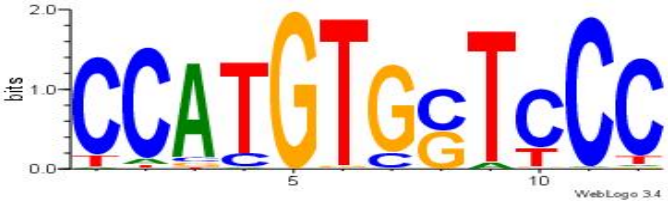

Reverse complement motif Consensus sequence: GGGASCACATGG

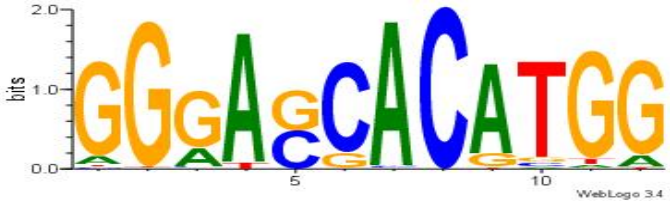

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0673069

Alignment:
CAGACTGCCTCCTCAA
CAAAGTGCT-------

Original motif Consensus sequence: CAGACTGCCTCCTCAA

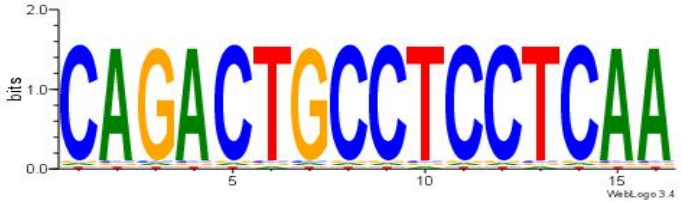

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

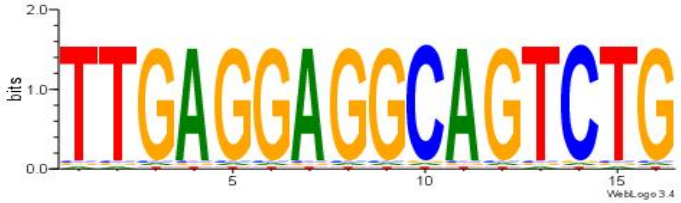

Dataset #:	1
Motif ID:	360
Motif name:	Motif 360
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0673069

Alignment:
CAATGGGGTG
CAAAGTGCT-

Original motif Consensus sequence: CAATGGGGTG

Reverse complement motif Consensus sequence: CACCCCATTG

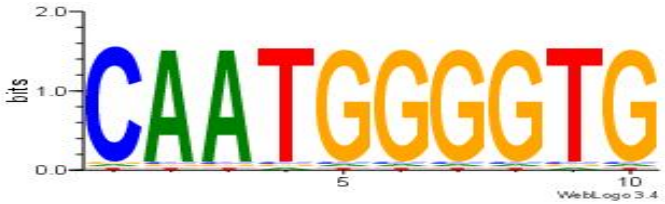

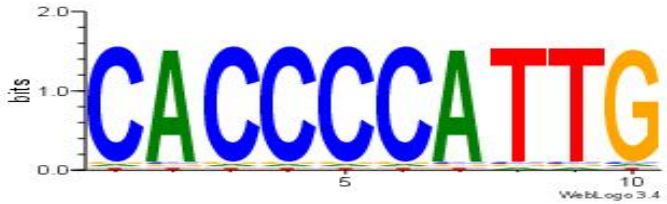

Dataset #:	1
Motif ID:	228
Motif name:	Motif 228
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0673069

Alignment:

```
AGCTACTTG
AGCACTTTG
```

Original motif Consensus sequence: AGCTACTTG

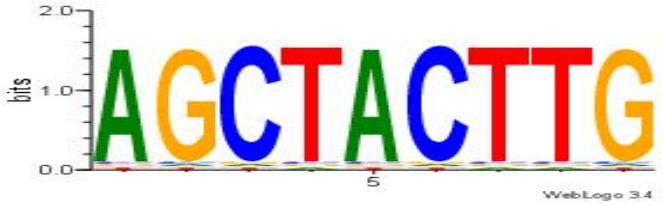

Reverse complement motif Consensus sequence: CAAGTAGCT

Dataset #:	1
Motif ID:	82

Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.069192

Alignment:

```
GCTTAGCACCYGGGCCAGC
----AGCACTTTG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

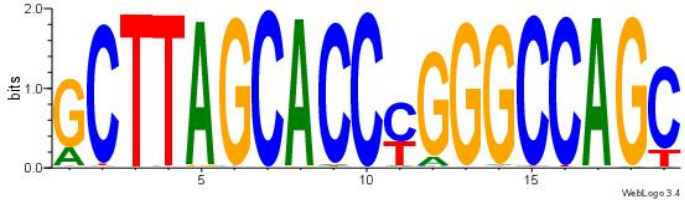

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

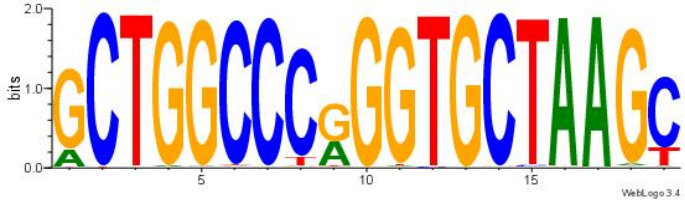

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0707989

Alignment:
GCAWSTGCAAAGGCCCT
-------CAAAGTGCT-

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

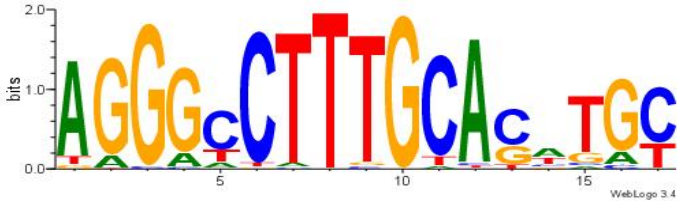

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

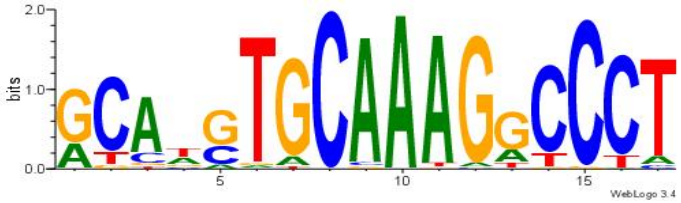

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0727809

Alignment:
ATGGCCTATGACYGSTTTG
----------AGCACTTTG

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

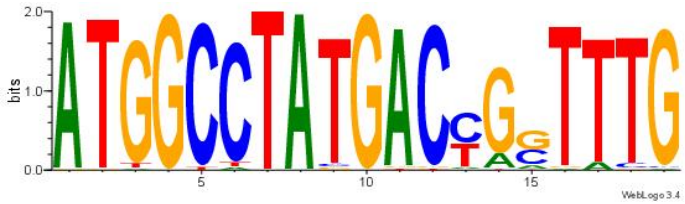

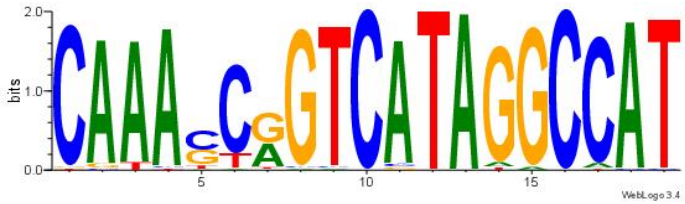

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0730236

Alignment:

```
ATCATTCTTATGCCTTTG
---------AGCACTTTG
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

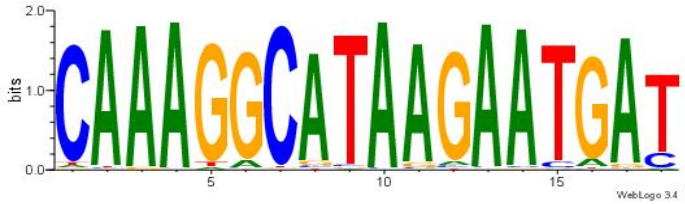

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

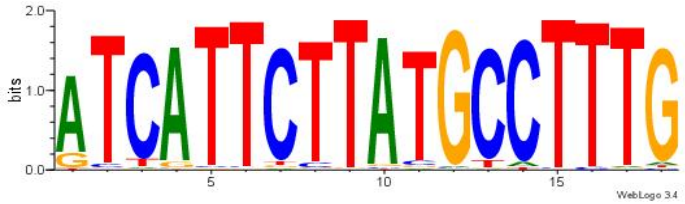

Dataset #: 1

Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.073693

Alignment:

```
GAGAACGTAG
-AGCACTTTG
```

Original motif Consensus sequence: CTACGTTCTC

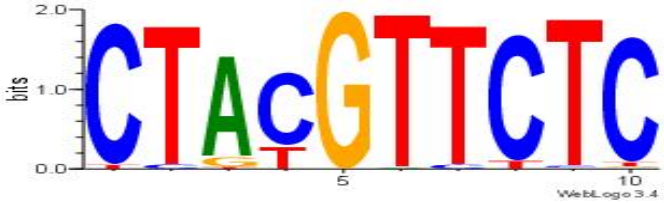

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.073995

Alignment:
CTCACAGAGTTAAA
--CAAAGTGCT---

Original motif Consensus sequence: CTCACAGAGTTAAA

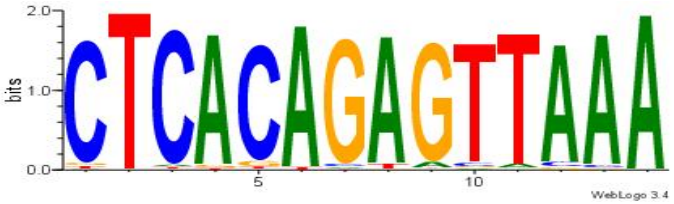

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

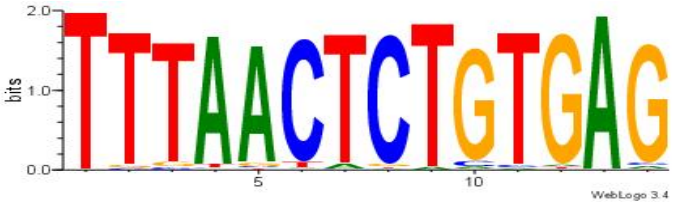

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0741185

Alignment:
TGTCCATGTGTTCTC
---CAAAGTGCT---

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

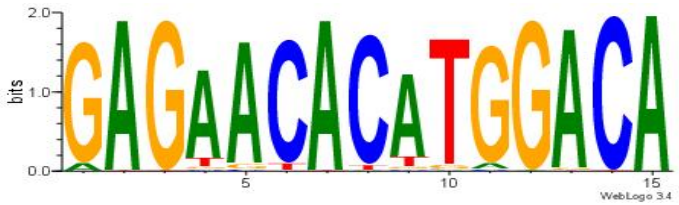

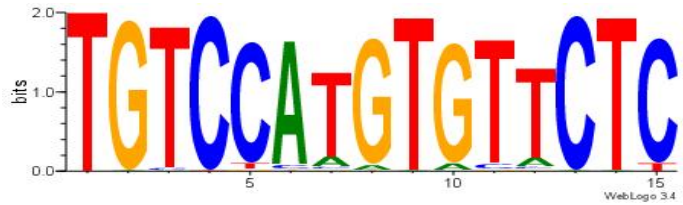

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.074237

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-----CAAAGTGCT------
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

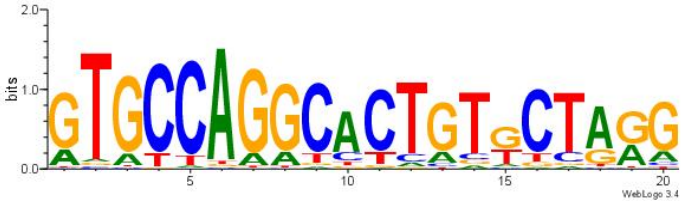

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

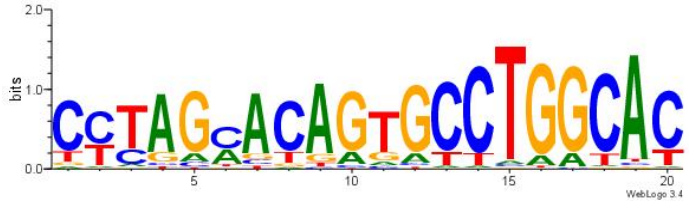

Dataset #:	1

Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0754115

Alignment:

```
TGGACCTTGAG
--AGCACTTTG
```

Original motif Consensus sequence: CTCAAGGTCCA

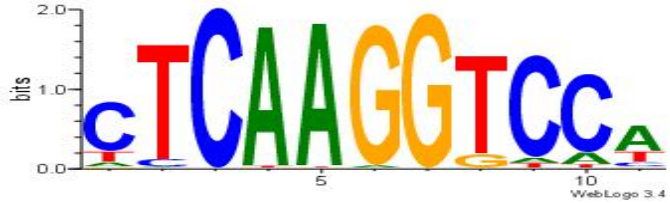

Reverse complement motif Consensus sequence: TGGACCTTGAG

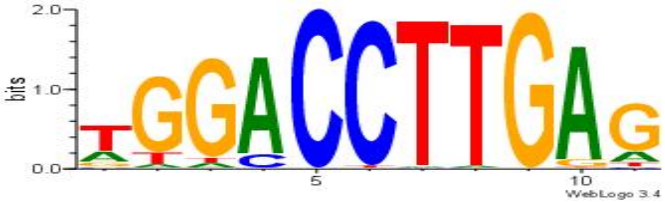

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0761247

Alignment:
AAAAGTCCACAGTCCAAAGT
-------CAAAGTGCT----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

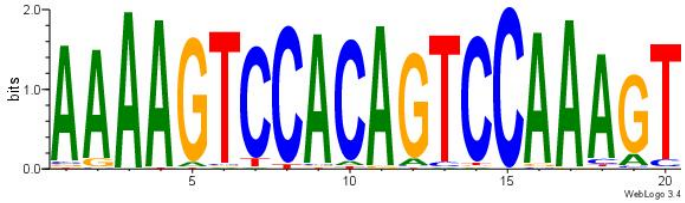

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

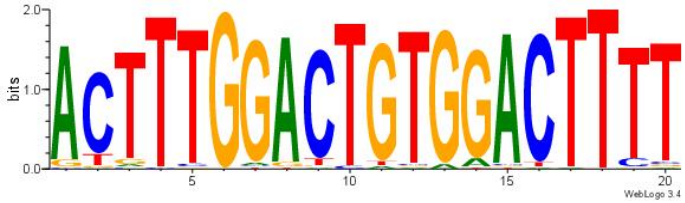

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0765498

Alignment:
GCCAATTTCTCCCATTTGGA
-CAAAGTGCT----------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

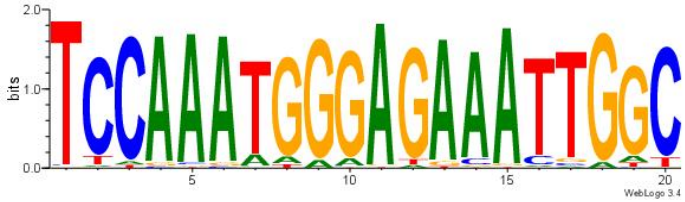

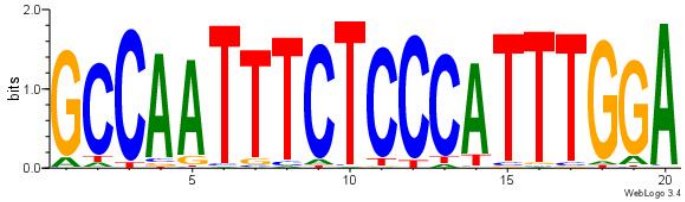

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0770602

Alignment:

```
GACAGGAGATTAACACTGAG
-----------AGCACTTTG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

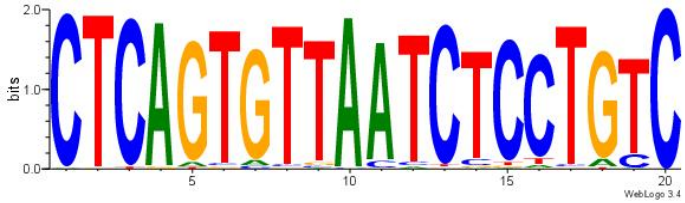

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

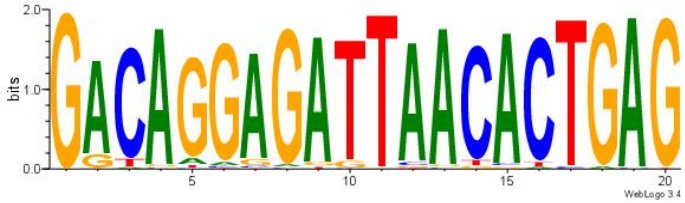

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0776054

Alignment:

```
AGATGCCAGCCAGAGCTCT
----------CAAAGTGCT
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

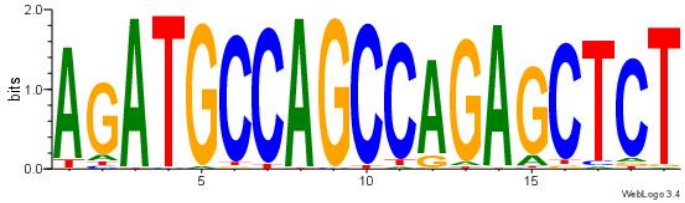

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

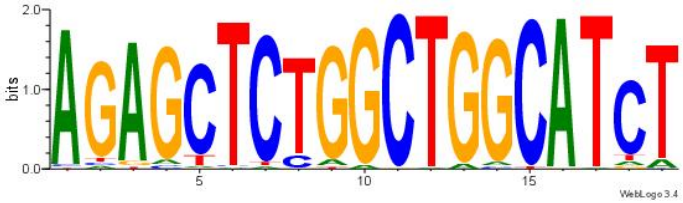

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9

Similarity score: 0.0780341

Alignment:
CCCYAATACTGCGCTTTTC
-AGCACTTTG---------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

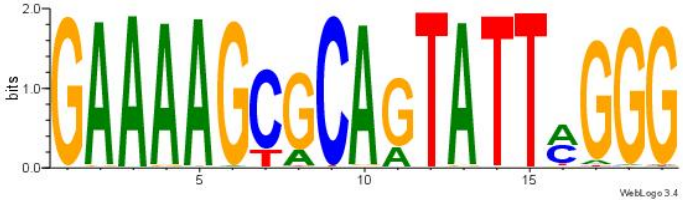

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

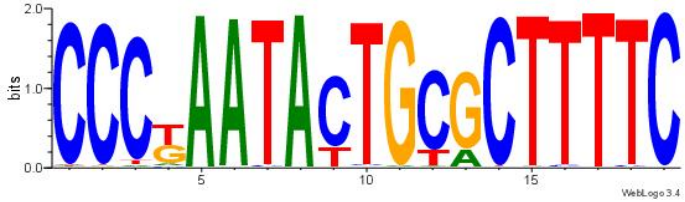

Dataset #: 1
Motif ID: 128
Motif name: Motif 128
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0782181

Alignment:
CMGCTCCGAGTGCGG
-----CAAAGTGCT-

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

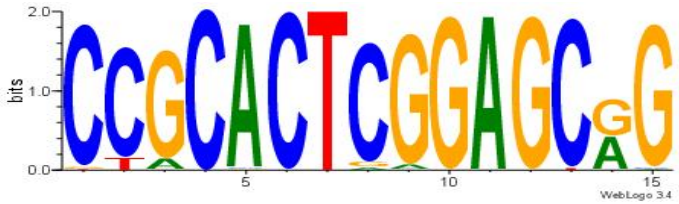

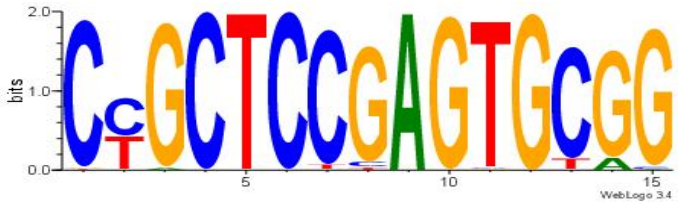

Dataset #:	1
Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0792693

Alignment:

```
CCCAAGTCCC
-CAAAGTGCT
```

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	312

Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0795951

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----------CAAAGTGCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

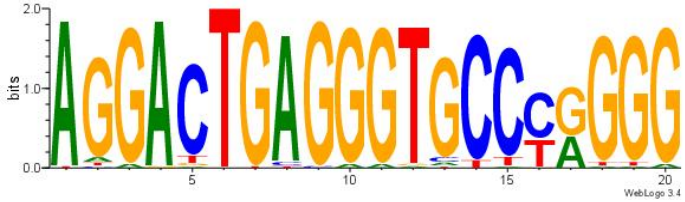

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

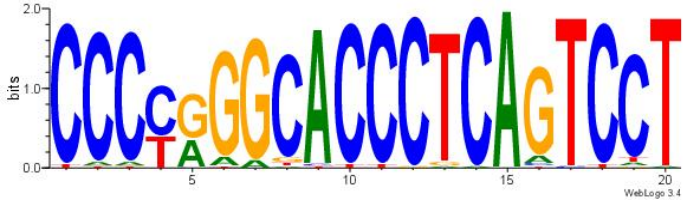

Dataset #:	1
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0801239

Alignment:
CCATGTGCGG
CAAAGTGCT-

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0804084

Alignment:
GTKTMTATMTACCACATTTT
----------AGCACTTTG-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

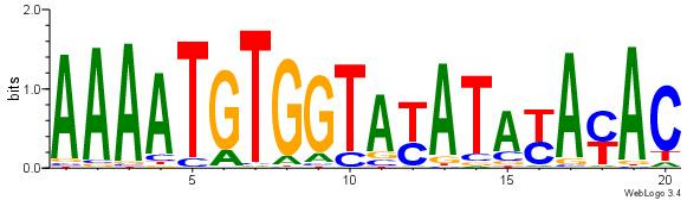

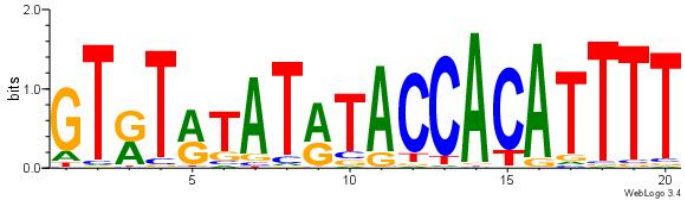

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0805201

Alignment:

```
TTTTATAGGATTTGGG
------AGCACTTTG-
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

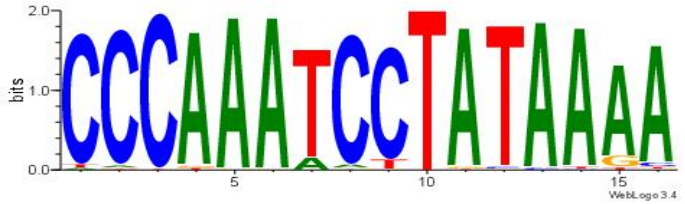

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

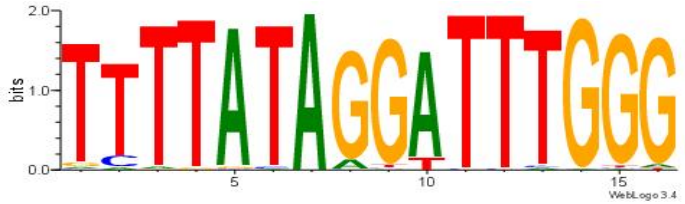

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0810323

Alignment:

```
ATAAAAACTTGCTGGTTTT
----CAAAGTGCT------
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

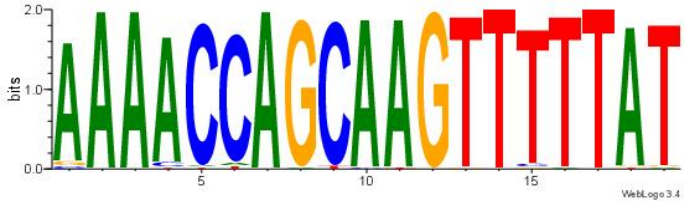

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

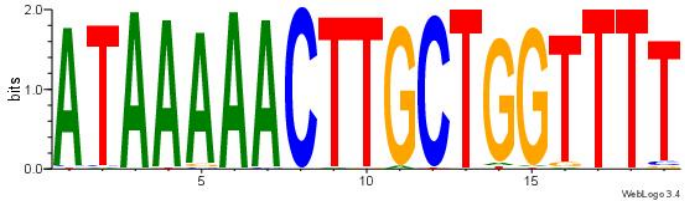

Dataset #:	1
Motif ID:	162
Motif name:	Motif 162
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0818139

Alignment:
CAAGGTCCAT
CAAAGTGCT-

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

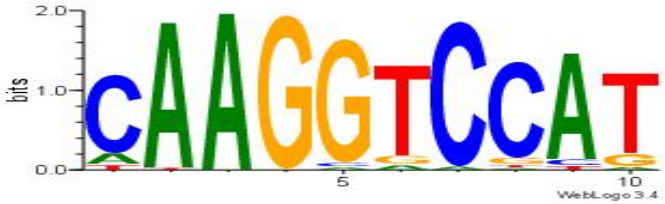

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.0820915

Alignment:
AAAGTGCCGAGAKTGCAGC
--------CAAAGTGCT--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

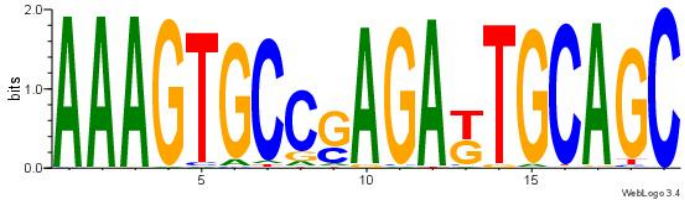

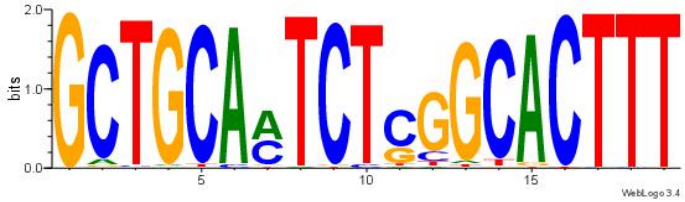

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0820985

Alignment:

```
AAGGAACAAACTCCRGACAC
------CAAAGTGCT-----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

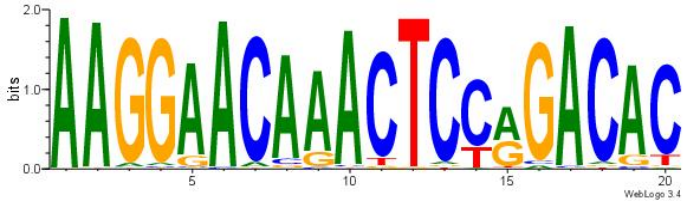

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

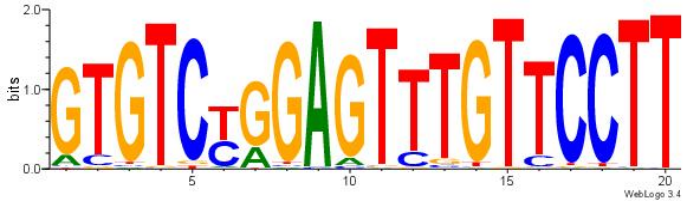

Dataset #: 1

Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0834729

Alignment:

```
CATTATGCTAARTG
CAAAGTGCT-----
```

Original motif Consensus sequence: CATTATGCTAARTG

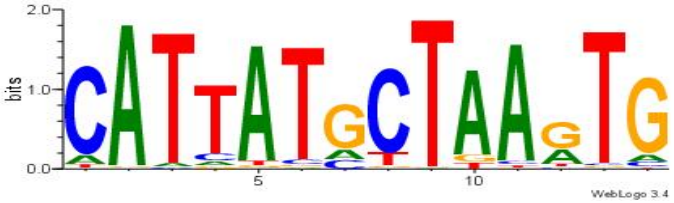

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

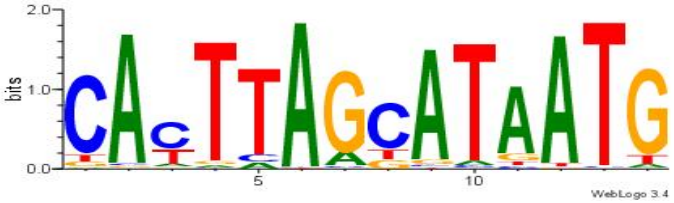

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0836729

Alignment:
AGTAGGTGCTCARTAAATRB
-CAAAGTGCT----------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

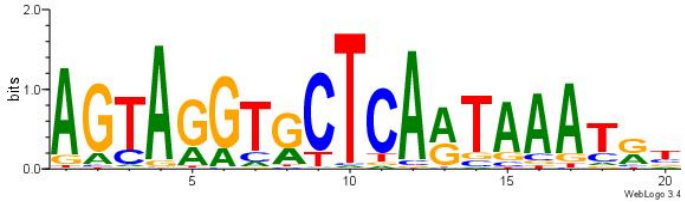

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

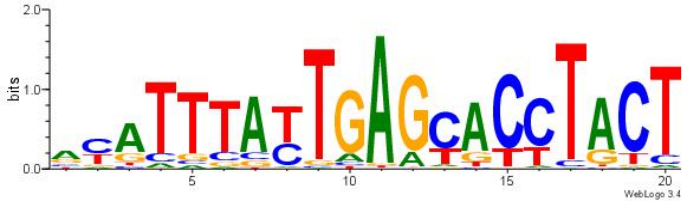

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0842833

Alignment:
ATGGACAYTTRGGTTGHTTC
---AGCACTTTG--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

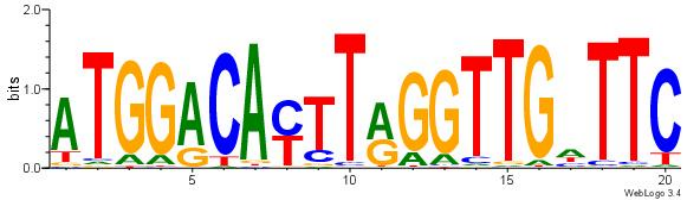

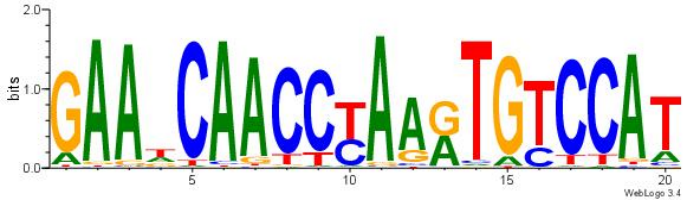

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0863494

Alignment:

```
AAAMAMMKMATGTTCTCACT
-------CAAAGTGCT----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

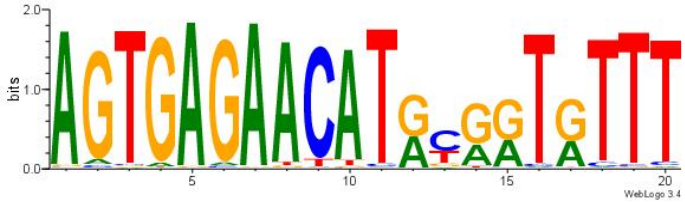

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

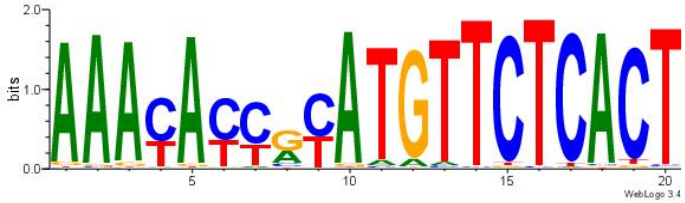

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0868836

Alignment:

```
CTGGGCRACAGAGYRAGACY
-----CAAAGTGCT------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

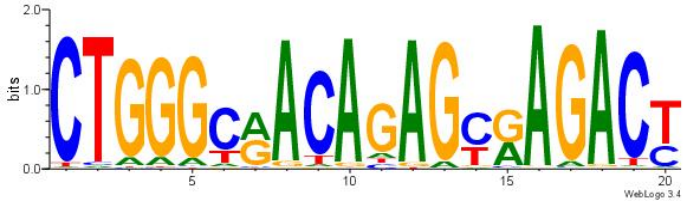

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

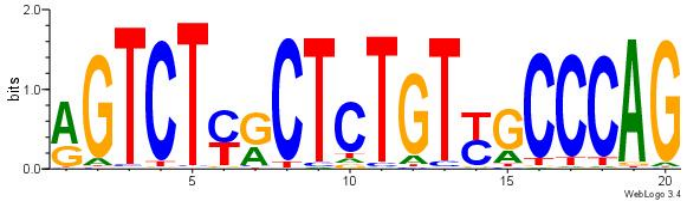

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.087856

Alignment:
AAAATCACAAGCATTCCTAT
---------AGCACTTTG--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

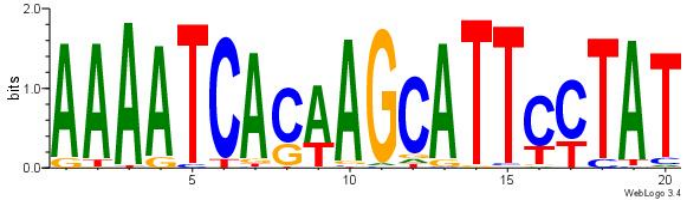

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

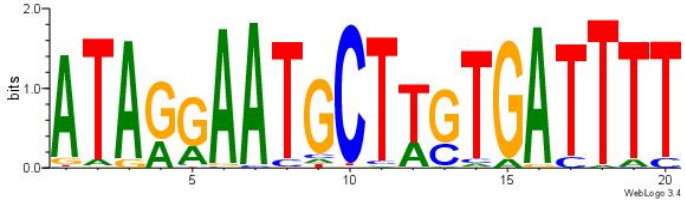

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0882439

Alignment:
AATGAKATCATGTCYTTTGC
----------AGCACTTTG-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

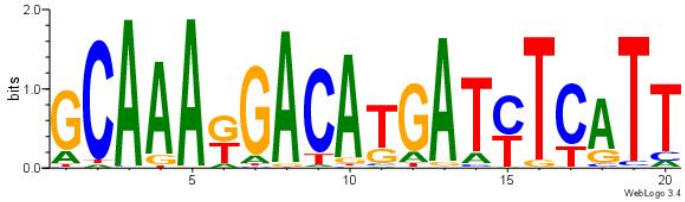

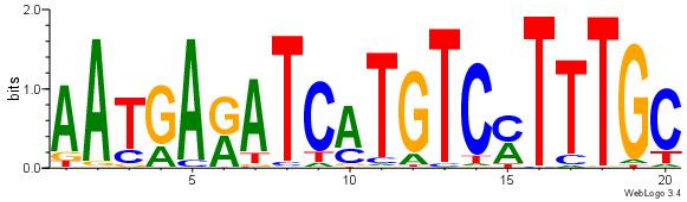

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0884275

Alignment:

```
AGAGTCTCACTCTGT
-----AGCACTTTG-
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

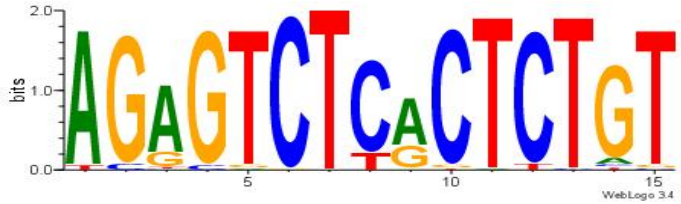

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

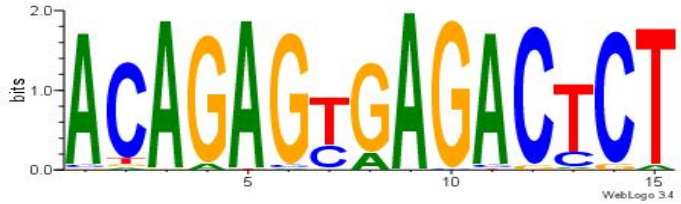

Dataset #:	1
Motif ID:	139

Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0884852

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----------CAAAGTGCT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

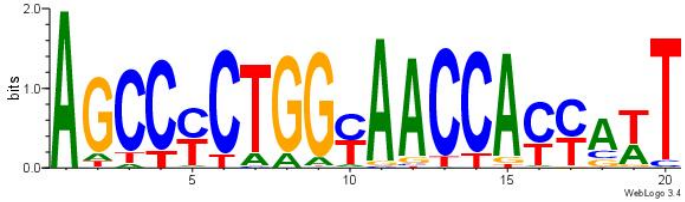

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

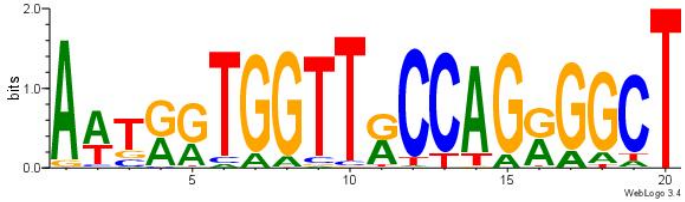

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0898504

Alignment:
ATGATCCAGCAATYCCACTH
-------AGCACTTTG----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

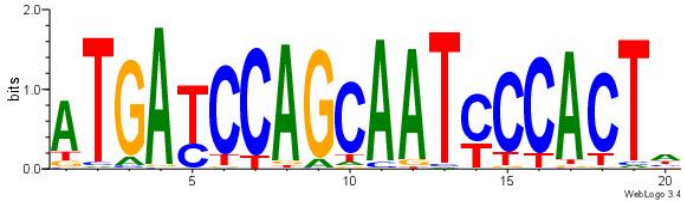

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

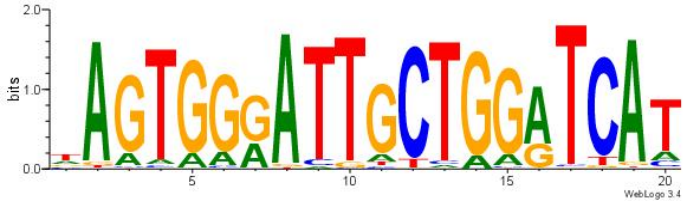

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0902117

Alignment:
CTAGACATAAAGGTTCTCCA
--------CAAAGTGCT---

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

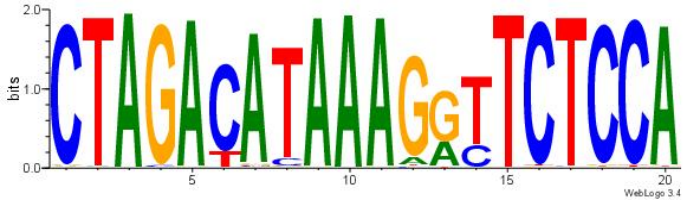

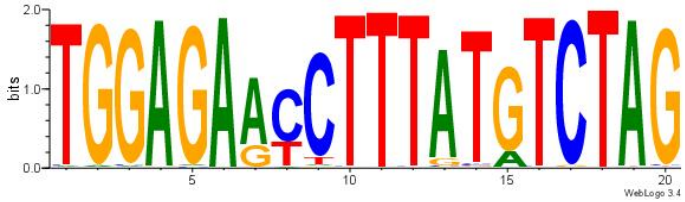

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0910972

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-----------AGCACTTTG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

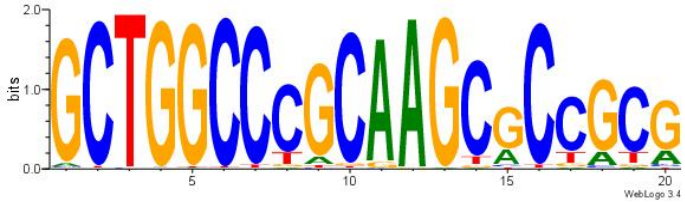

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

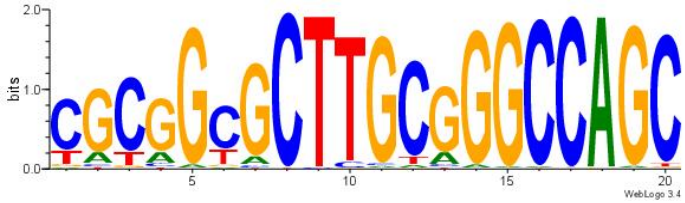

Dataset #: 1 Motif ID: 130 Motif name: Motif 130

Original motif Consensus sequence: ATTATTATYAT

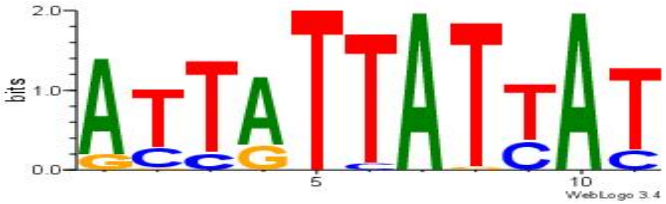

Reverse complement motif Consensus sequence: ATMATAATAAT

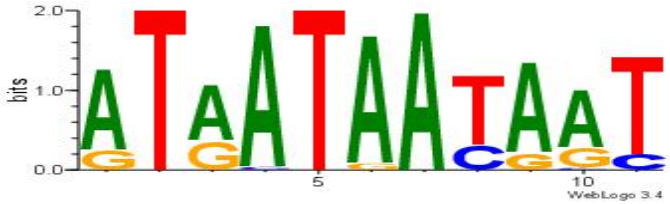

Best Matches for Significant Motif ID 130 (Highest to Lowest)

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0362259

Alignment:

```
ATCATTCTTATGCCTTTG
ATTATTATYAT-------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

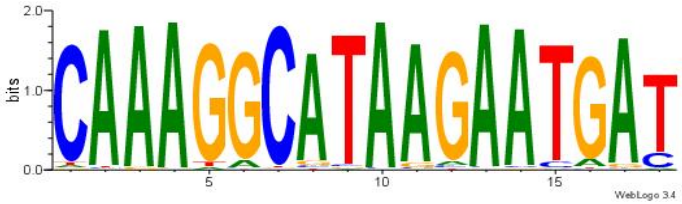

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

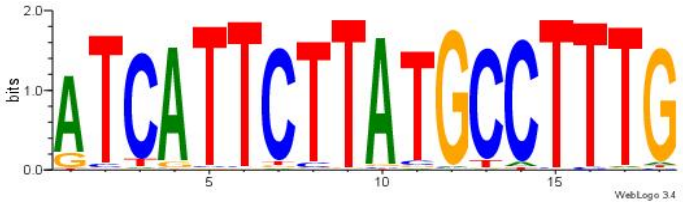

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0458076

Alignment:

```
CCTMACAATCATGG
-ATMATAATAAT--
```

Original motif Consensus sequence: CCATGATTGTRAGG

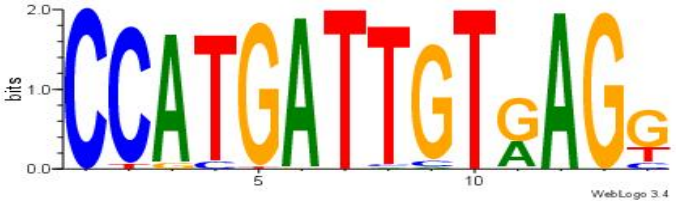

Reverse complement motif Consensus sequence: CCTMACAATCATG

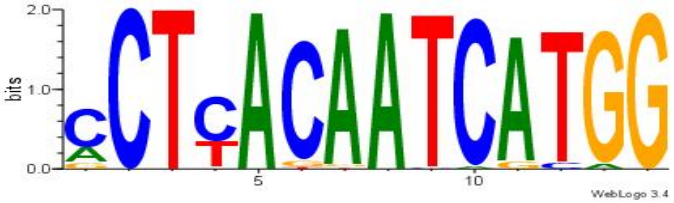

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0543851

Alignment:
GCAGCAMTATTCACAATAG
------ATMATAATAAT--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

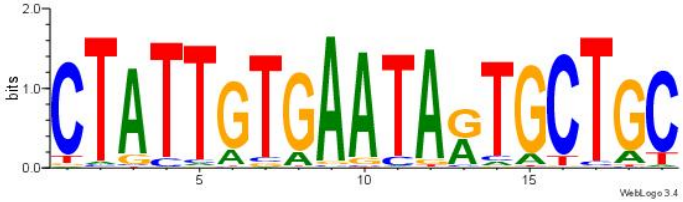

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

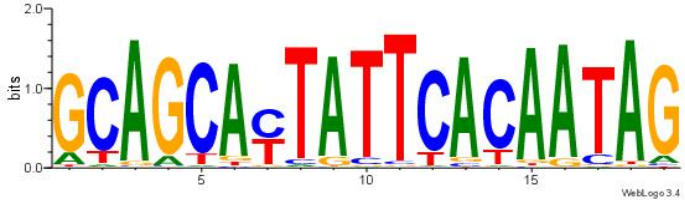

Dataset #: 1
Motif ID: 287
Motif name: Motif 287
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0550832

Alignment:
CAMTTAGCATAATG
--ATMATAATAAT-

Original motif Consensus sequence: CATTATGCTAARTG

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

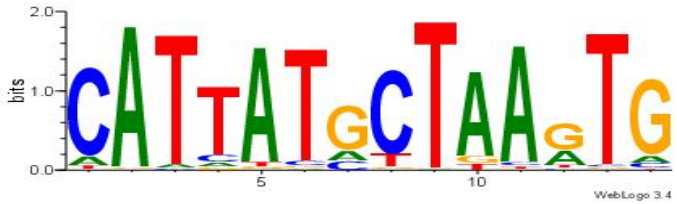

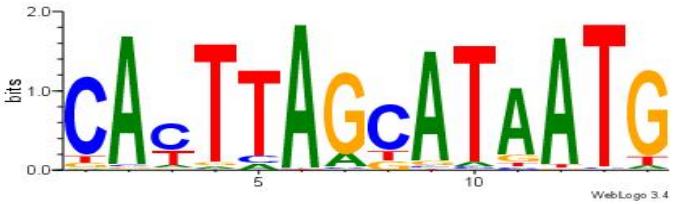

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0576294

Alignment:

```
ATGGAATAYTATTCAGCCAT
-------ATMATAATAAT--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

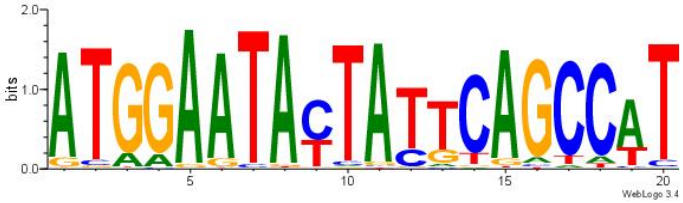

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

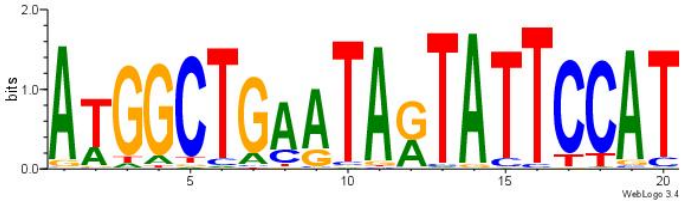

Dataset #: 1

Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0576401

Alignment:

```
GGTCAGGATCATCAATAT
-------ATTATTATYAT
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

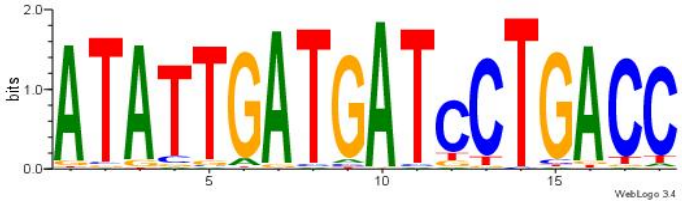

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

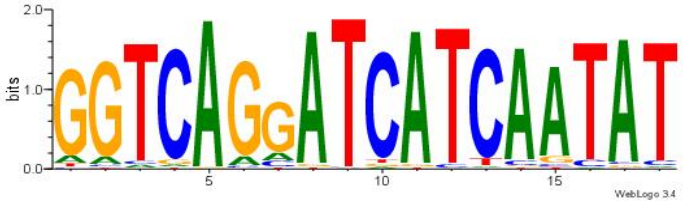

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.0593635

Alignment:
AAAATCACAAGCATTCCTAT
---ATMATAATAAT------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

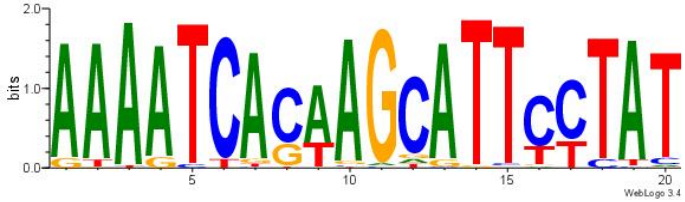

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

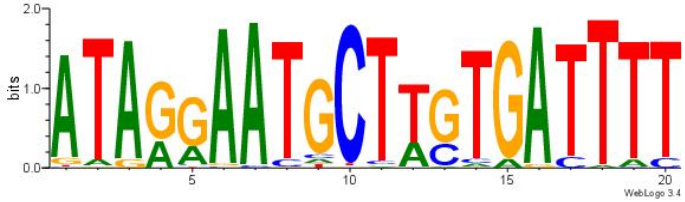

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0608842

Alignment:
TTTYTWTTTTTTYTWGAGAC
-------ATTATTATYAT--

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

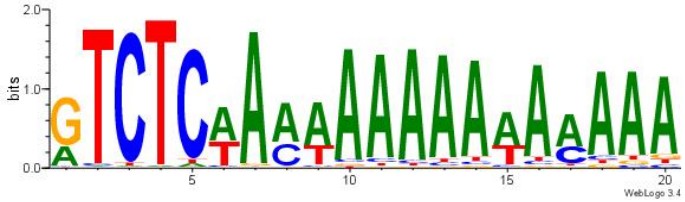

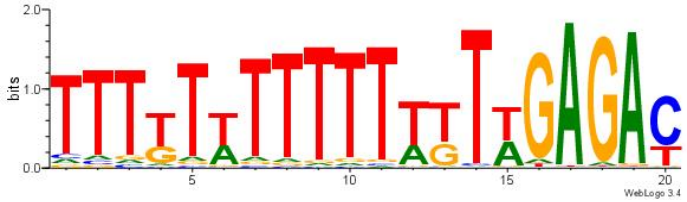

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.065752

Alignment:
CTCAGTGTTAATCTCCTGTC
---ATTATTATYAT------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

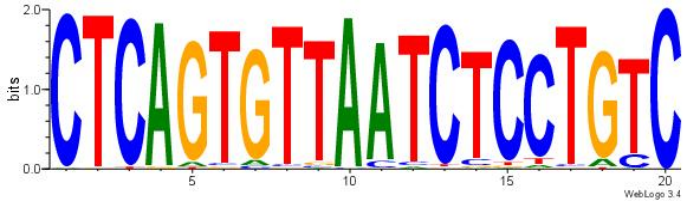

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

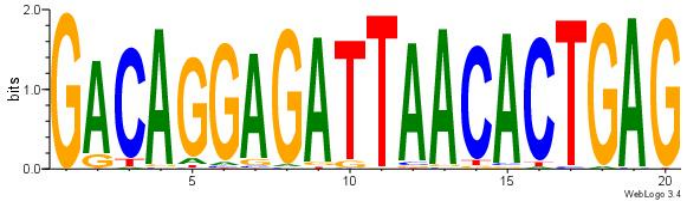

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0660757

Alignment:

```
AACAACAACAACAAMAA
-----ATMATAATAAT-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

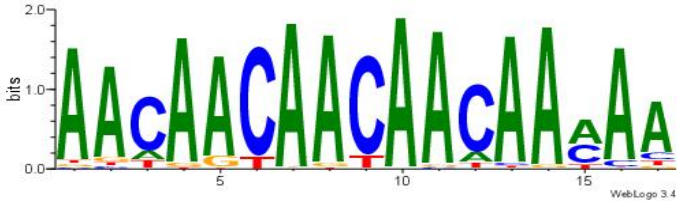

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

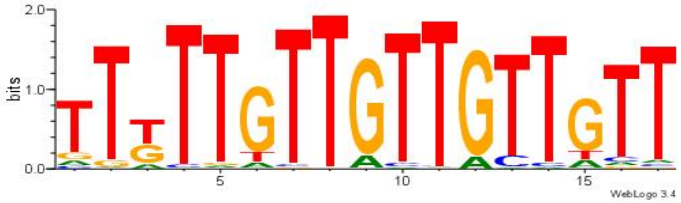

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.0684422

Alignment:
CTCATTTAATCCTCACAAC
ATMATAATAAT--------

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

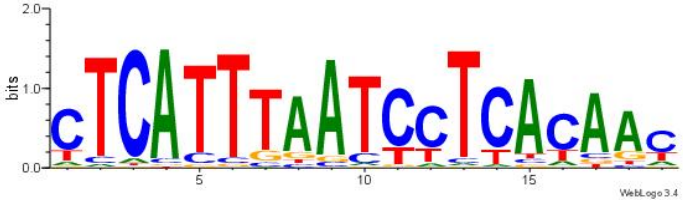

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

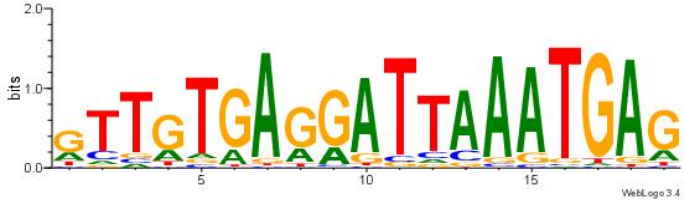

Dataset #: 1
Motif ID: 281
Motif name: Motif 281
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.06871

Alignment:
AAATGGAATCAT
-ATTATTATYAT

Original motif Consensus sequence: AAATGGAATCAT

Reverse complement motif Consensus sequence: ATGATTCCATTT

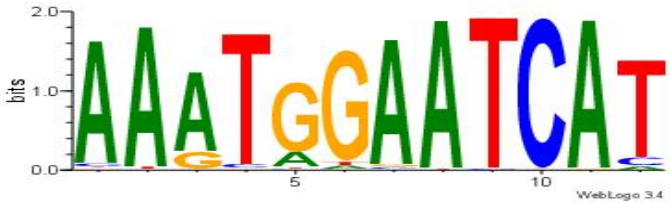

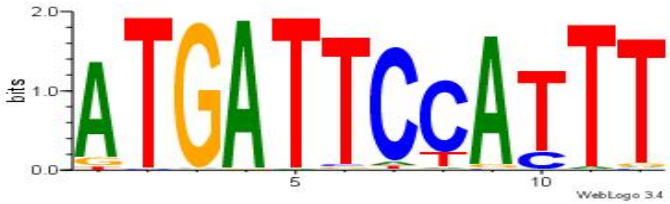

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0692456

Alignment:

```
GTCTTTATCAGC
ATTATTATYAT-
```

Original motif Consensus sequence: GCTGATAAAGAC

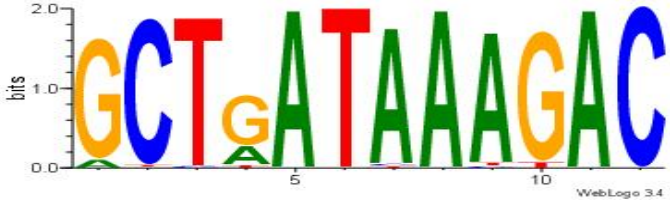

Reverse complement motif Consensus sequence: GTCTTTATCAGC

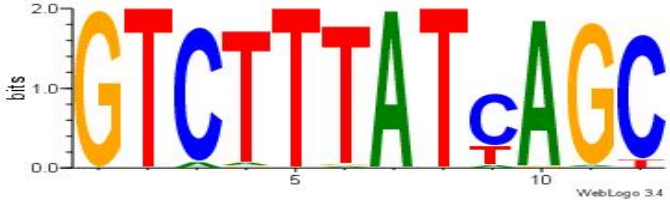

Dataset #:	1
Motif ID:	150

Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0704451

Alignment:

```
ATTGCTAGCACA
ATTATTATYAT-
```

Original motif Consensus sequence: ATTGCTAGCACA

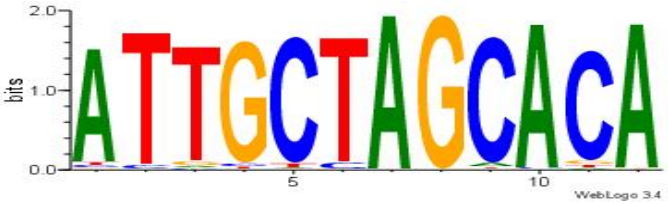

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

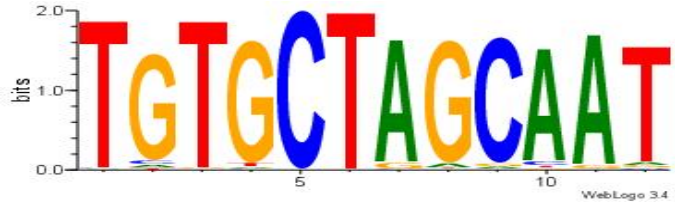

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0712339

Alignment:
ATTGGTGTATTTACAATCCC
---ATMATAATAAT------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

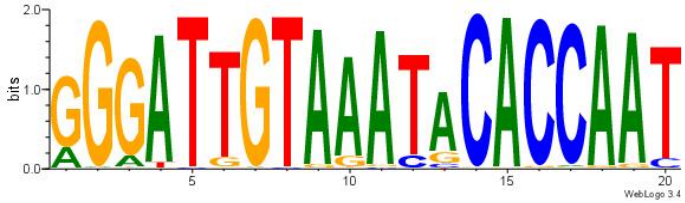

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0727

Alignment:
AAATTAGGCCAATTAATAAC
---------ATMATAATAAT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

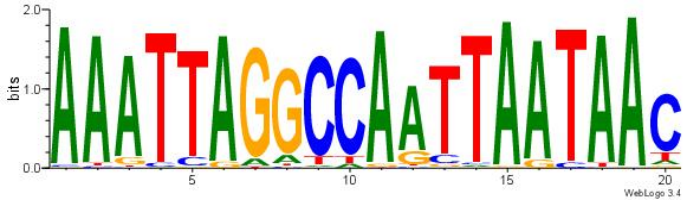

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0732264

Alignment:

```
CMCAGTTCACAATAGGGTT
-----ATMATAATAAT---
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

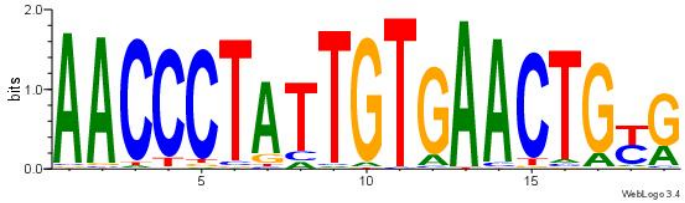

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

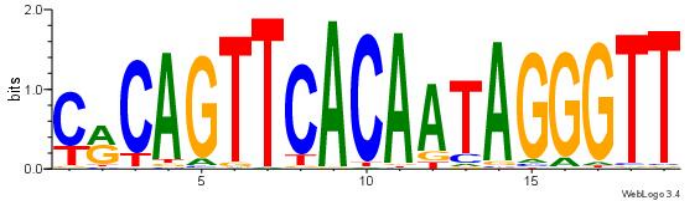

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0741429

Alignment:

```
GAAHCAACCKAAKTGTCCAT
--ATMATAATAAT-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

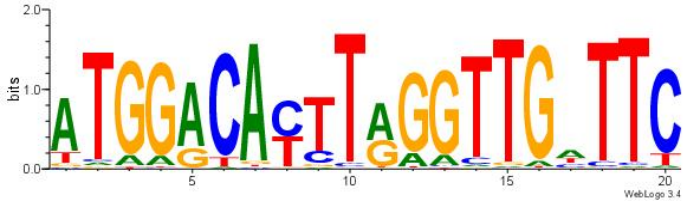

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

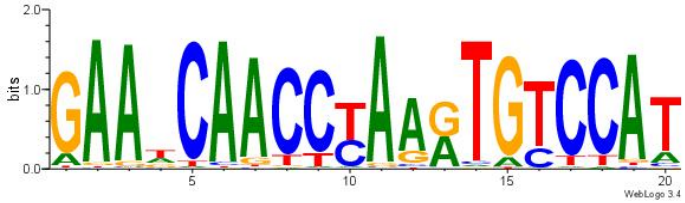

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0741904

Alignment:
AAAGCTGGAGCTATTATCTA
---------ATTATTATYAT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

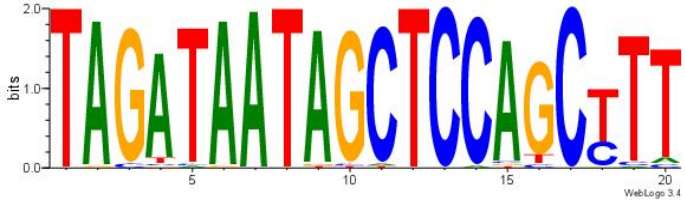

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

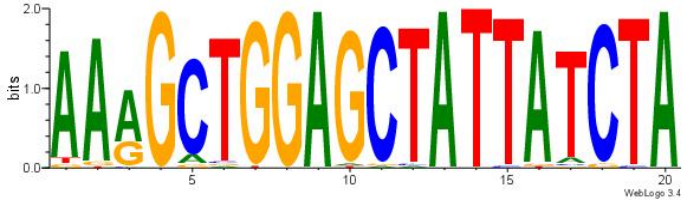

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0754066

Alignment:
AGTTCTTAAAGATGGT
--ATMATAATAAT---

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

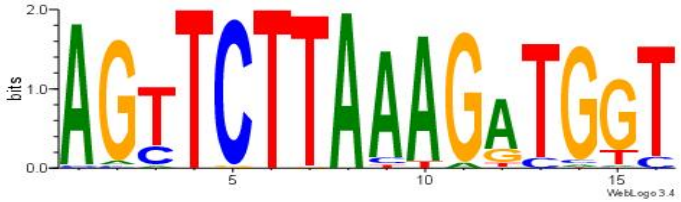

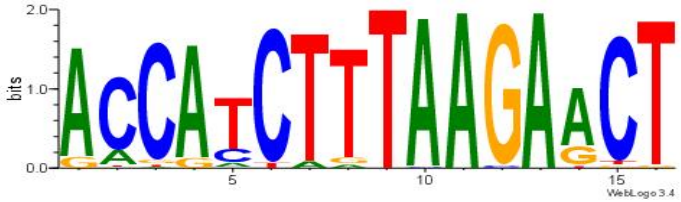

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.075778

Alignment:

```
TTTGTTATAGCAG
ATTATTATYAT--
```

Original motif Consensus sequence: CTGCTATAACAAA

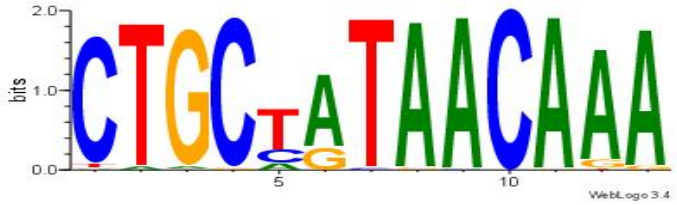

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

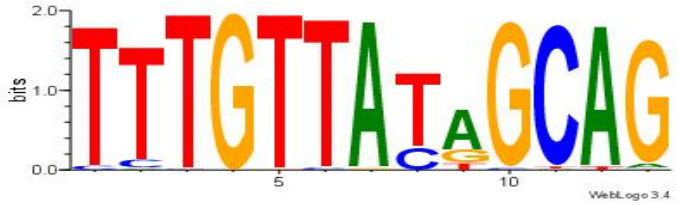

Dataset #:	1
Motif ID:	356

Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0759327

Alignment:

```
AATTAAAAGACACAGACTG
-ATMATAATAAT-------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

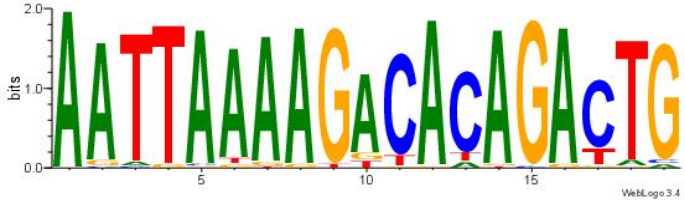

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

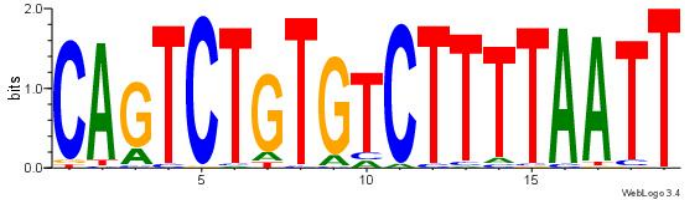

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0761326

Alignment:
TAGTTTTTAACAA
--ATTATTATYAT

Original motif Consensus sequence: TAGTTTTTAACAA

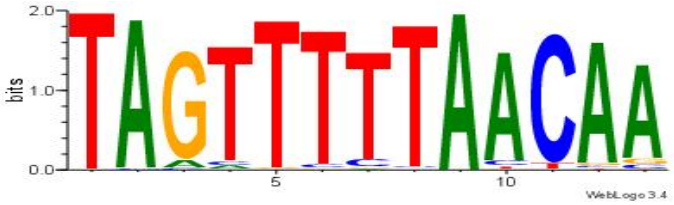

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

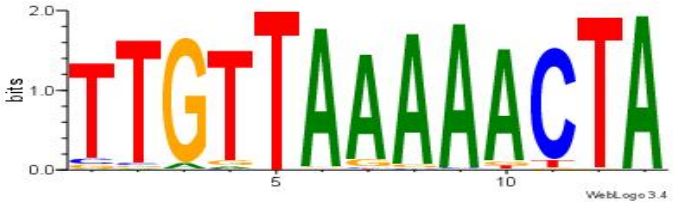

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0761398

Alignment:
AAATCTTAAAGCTC
--ATMATAATAAT-

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

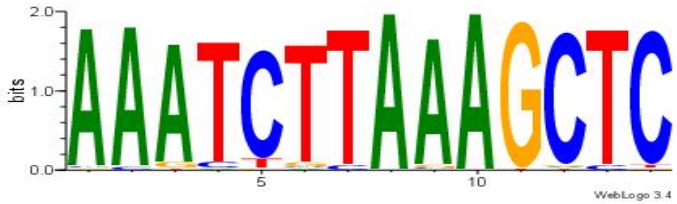

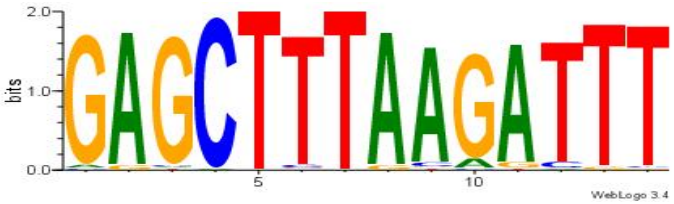

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0767343

Alignment:

```
ATTCAASATGAGATTTGGG
----ATMATAATAAT----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

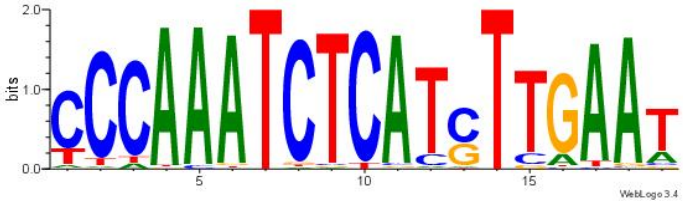

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

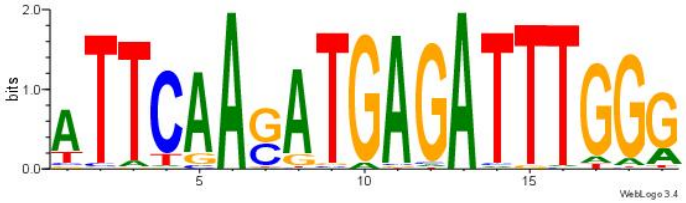

Dataset #:	1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0773887

Alignment:

```
AAYRGACTAATACA
---ATMATAATAAT
```

Original motif Consensus sequence: AAYRGACTAATACA

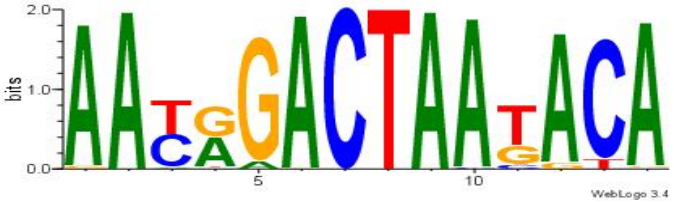

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

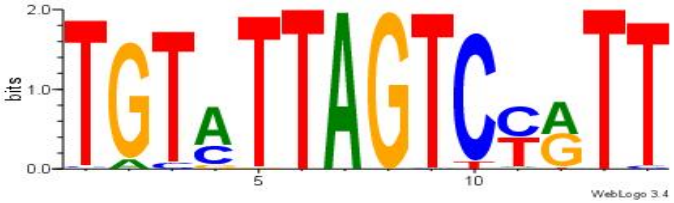

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0777714

Alignment:
GCAAAKGACATGATYTCATT
ATMATAATAAT---------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

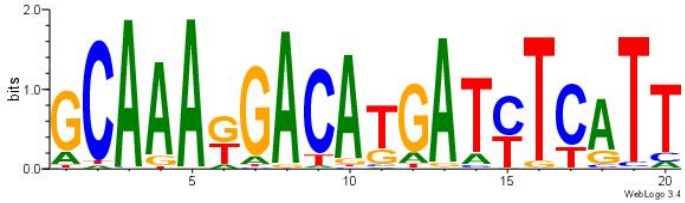

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

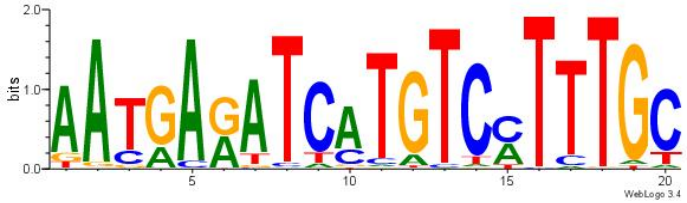

Dataset #:	1
Motif ID:	126
Motif name:	Motif 126
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0778246

Alignment:
GATTACAGGCMT
-ATMATAATAAT

Original motif Consensus sequence: AYGCCTGTAATC

Reverse complement motif Consensus sequence: GATTACAGGCMT

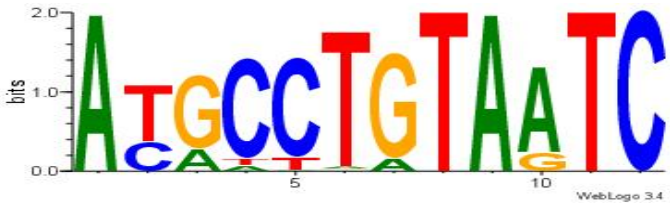

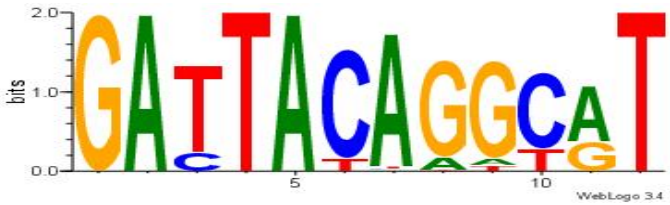

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0779987

Alignment:

```
KACATTGATTTTGTATC
---ATTATTATYAT---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

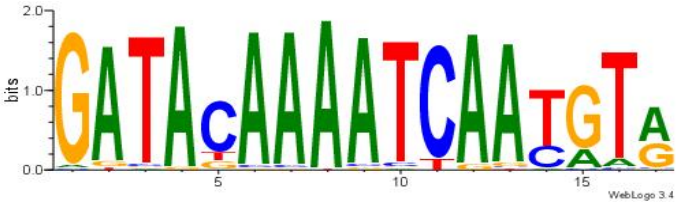

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

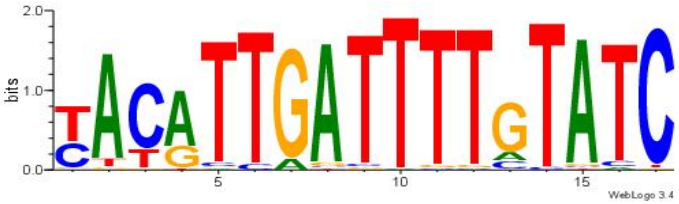

Dataset #: 1

Motif ID:	80
Motif name:	Motif 80
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0781259

Alignment:

```
WTTTTWAAAAW
ATTATTATYAT
```

Original motif Consensus sequence: WTTTTWAAAAW

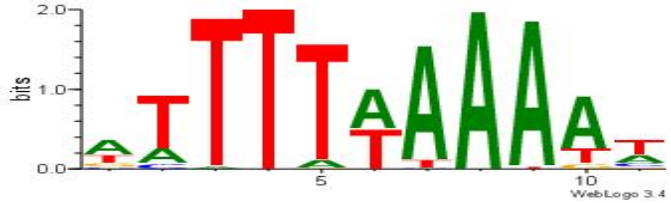

Reverse complement motif Consensus sequence: WTTTTWAAAAW

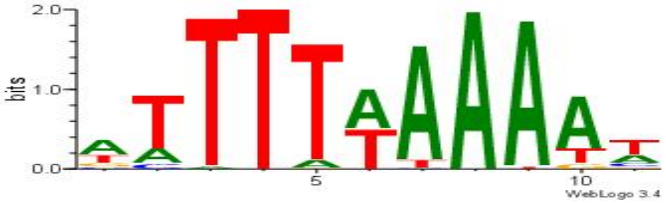

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0785036

Alignment:
AGTGAGAACATRYRRTRTTT
--------ATMATAATAAT-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

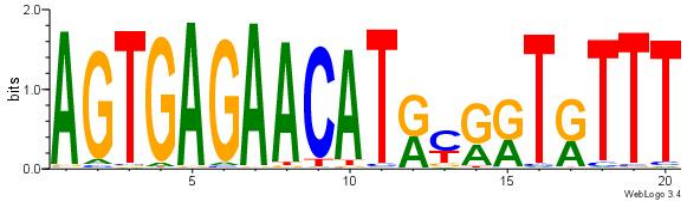

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

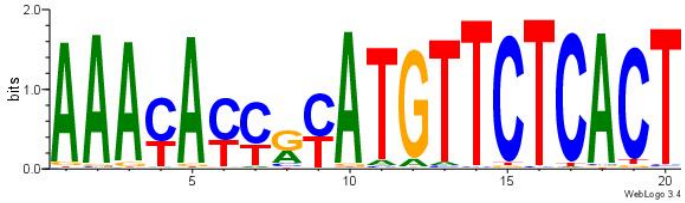

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0786113

Alignment:
CAGCTACTCKTATACCCTTG
--ATTATTATYAT-------

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

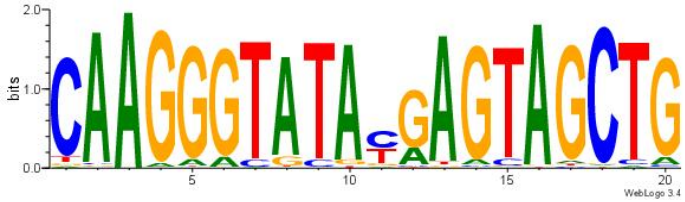

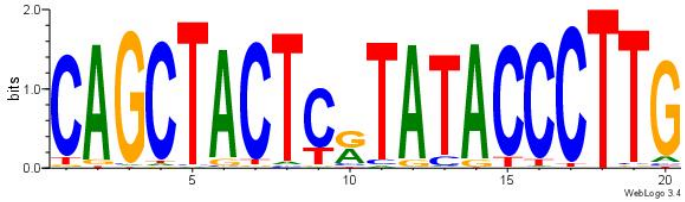

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0787647

Alignment:

```
TWTACCTATGTAACAAACCT
---------ATMATAATAAT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

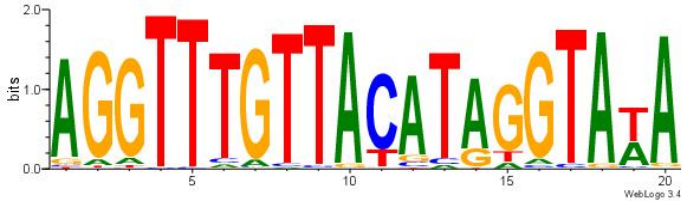

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

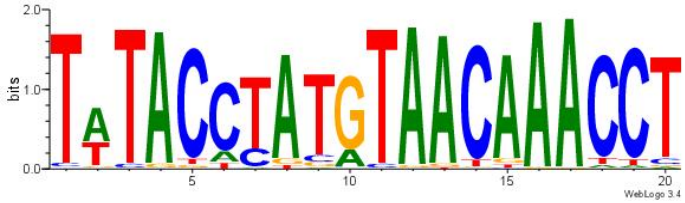

Dataset #: 1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0787793

Alignment:

```
CCCYAATACTGCGCTTTTC
--ATMATAATAAT------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

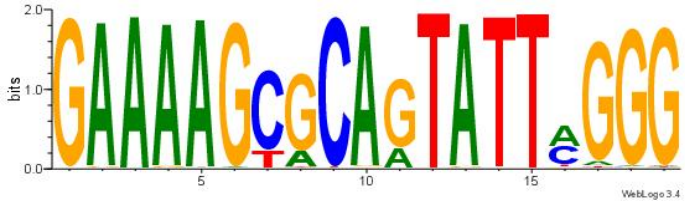

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

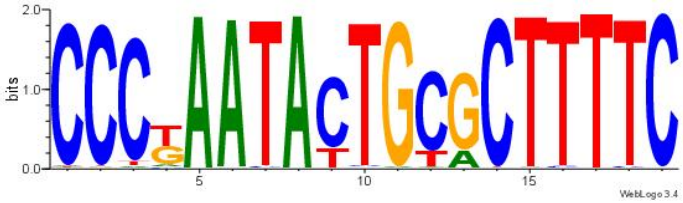

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0788098

Alignment:
CATTAGATTCTCATAGGA
---ATTATTATYAT----

Original motif Consensus sequence: CATTAGATTCTCATAGGA

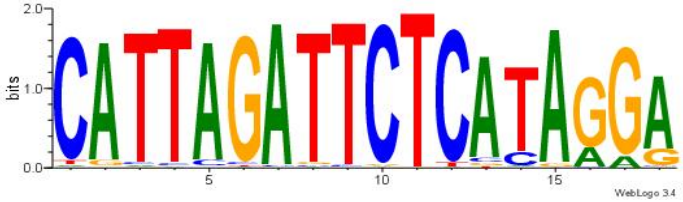

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

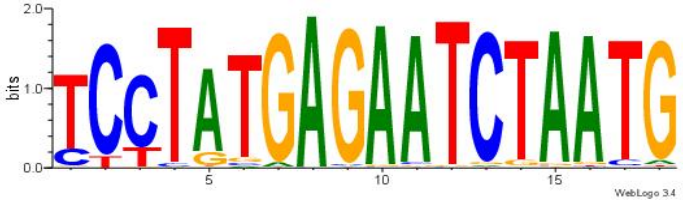

Dataset #: 1
Motif ID: 363
Motif name: Motif 363
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0796688

Alignment:
WACAATCAGACCTTG
-ATMATAATAAT---

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

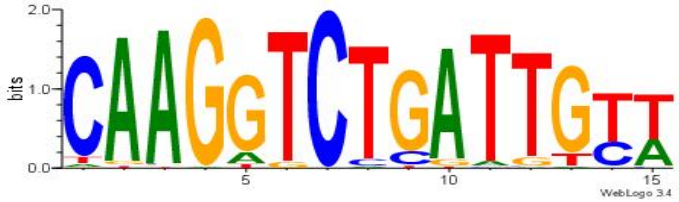

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0804198

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-----ATTATTATYAT----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

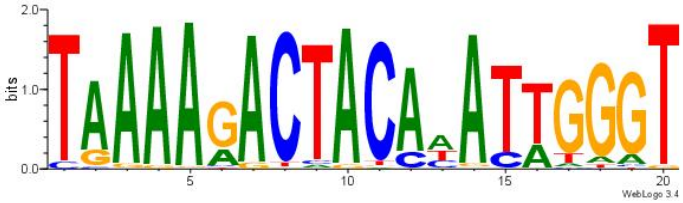

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

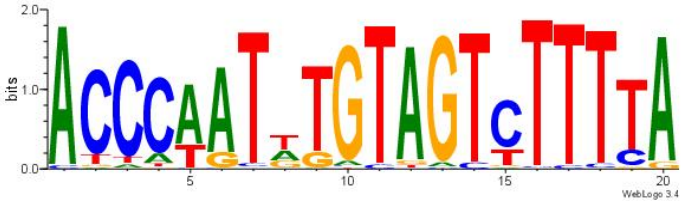

Dataset #:	1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0808748

Alignment:

```
TTTTATAGGATTTGGG
-ATMATAATAAT----
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

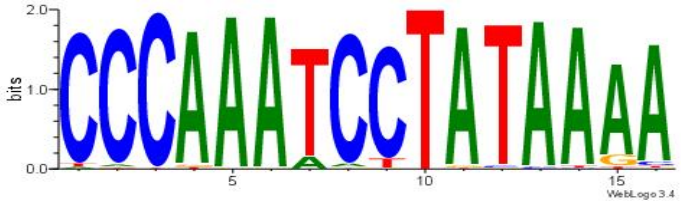

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

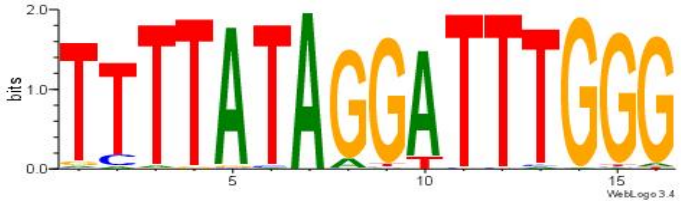

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0828211

Alignment:
ACACCTATTCGCACAC
---ATTATTATYAT--

Original motif Consensus sequence: ACACCTATTCGCACAC

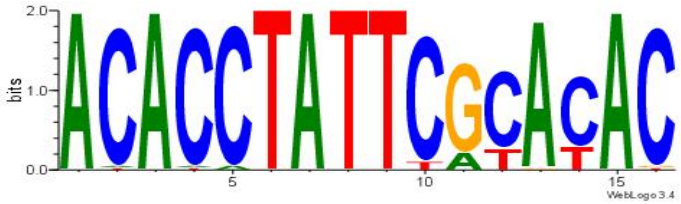

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

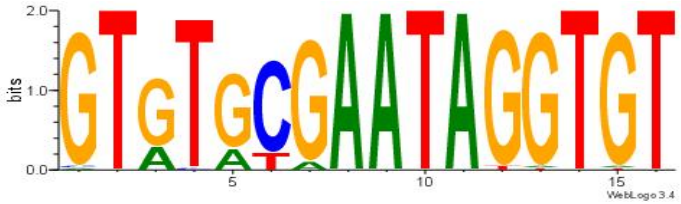

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0831202

Alignment:
TTCAMTCATGATTTGGCTCT
----ATTATTATYAT-----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

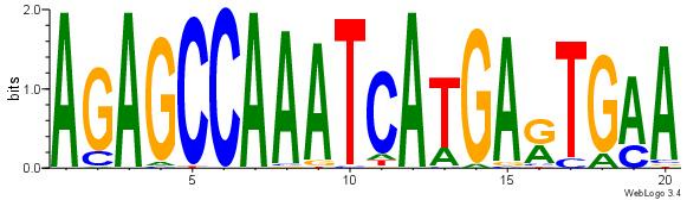

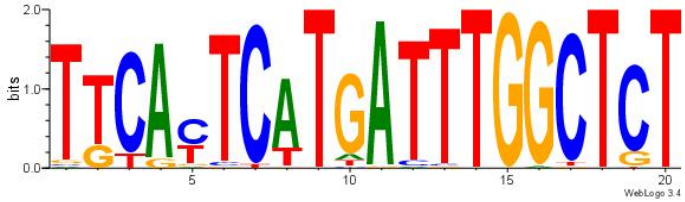

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0839863

Alignment:

```
CAAGTTGACACATAAAATTA
--------ATMATAATAAT-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

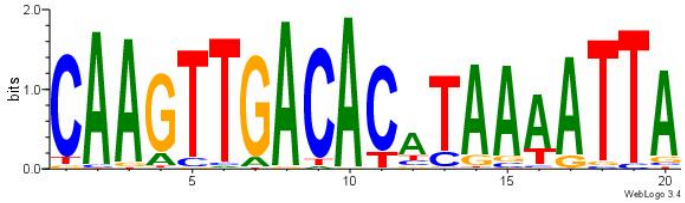

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

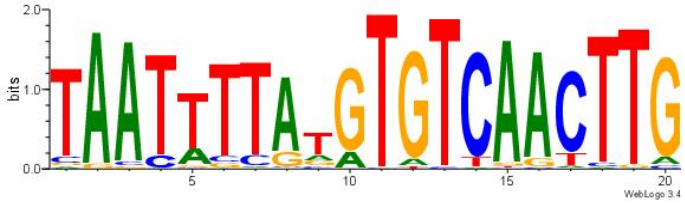

Dataset #: 1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0847646

Alignment:

```
ATCTCASAAATCACCACTA
ATMATAATAAT--------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

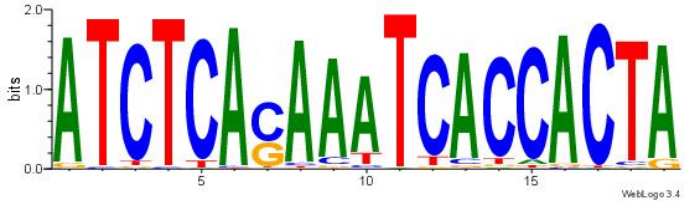

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

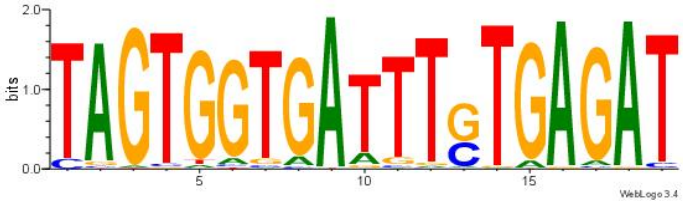

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.084901

Alignment:
GTGGCCCTCTTCTCACAGCT
-----ATTATTATYAT----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

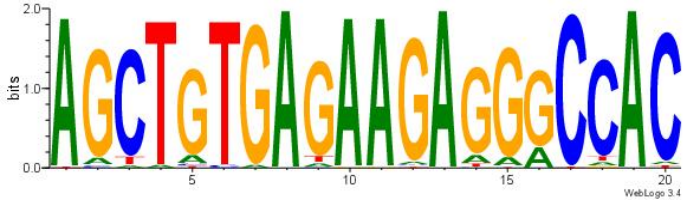

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

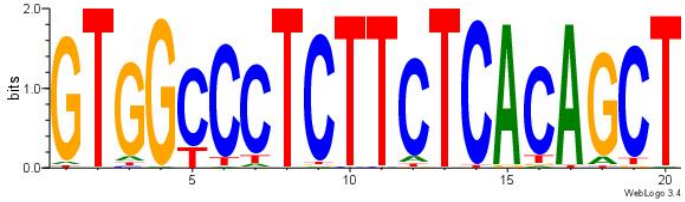

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0857287

Alignment:
GCCAATTTCTCCCATTTGGA
----ATTATTATYAT-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

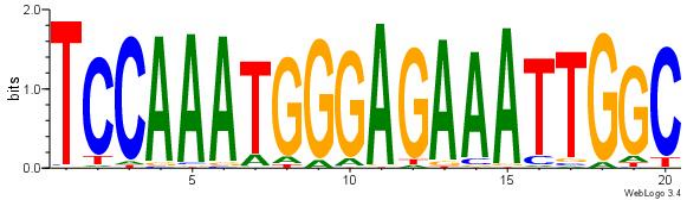

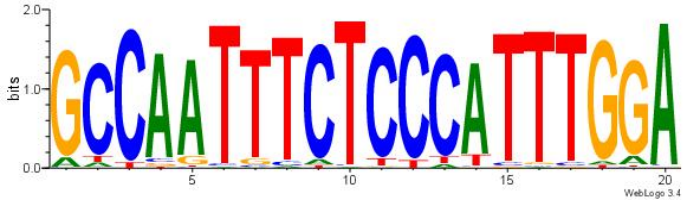

Dataset #:	1
Motif ID:	268
Motif name:	Motif 268
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0860939

Alignment:

```
ATAGTGAGACC
ATMATAATAAT
```

Original motif Consensus sequence: ATAGTGAGACC

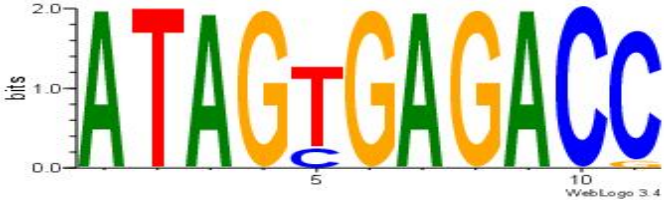

Reverse complement motif Consensus sequence: GGTCTCACTAT

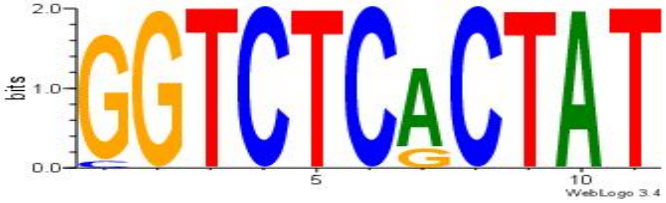

Dataset #:	1
Motif ID:	54

Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0864577

Alignment:

```
AAGGAAAAGAAA
ATMATAATAAT-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

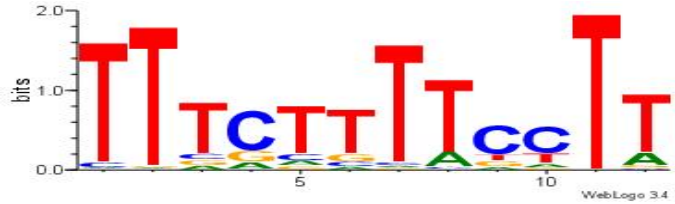

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0867834

Alignment:
TYTGTCMTTTTGTGACTGGC
ATTATTATYAT---------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

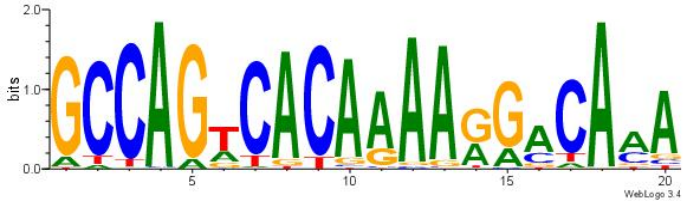

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

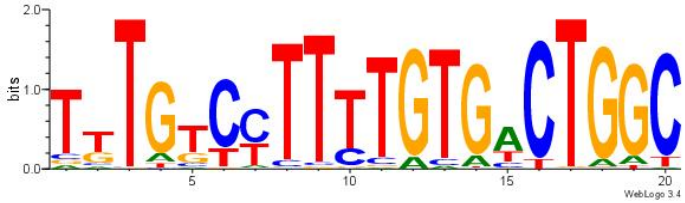

Dataset #:	1
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0868677

Alignment:
ATTTTACAGATG
-ATTATTATYAT

Original motif Consensus sequence: CATCTGTAAAAT

Reverse complement motif Consensus sequence: ATTTTACAGATG

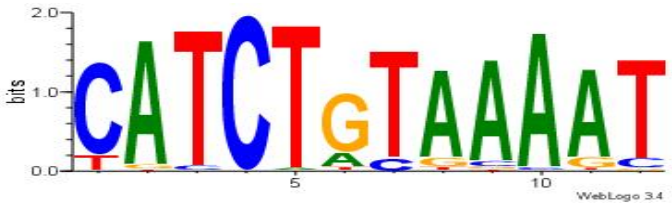

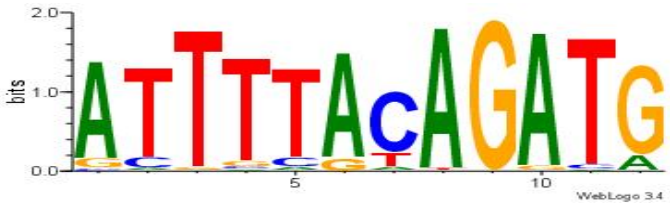

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.086907

Alignment:

```
ACATCMTCTGAAATCTAGG
--ATMATAATAAT------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

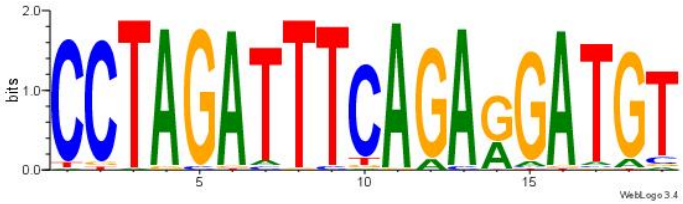

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

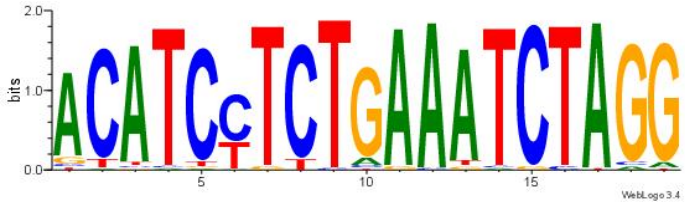

Dataset #: 1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0871873

Alignment:

```
AAAACCAGCAAGTTTTTAT
--------ATTATTATYAT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

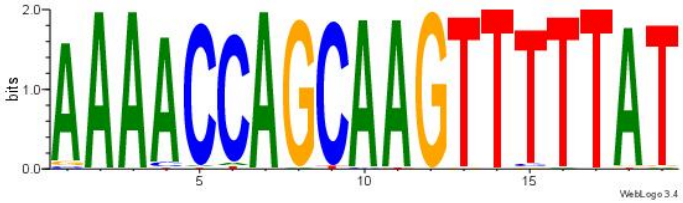

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

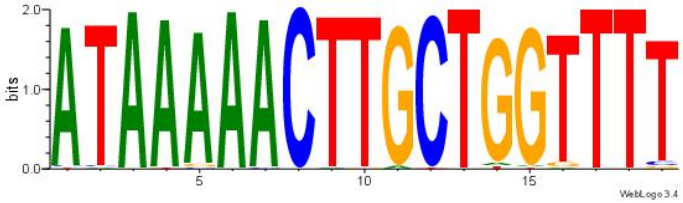

Dataset #: 1 Motif ID: 288 Motif name: Motif 288

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Best Matches for Significant Motif ID 288 (Highest to Lowest)

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0450065

Alignment:

```
CCCAAATCCTATAAAA
CCCAAGTCCC------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

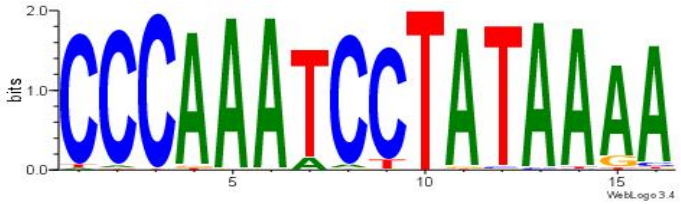

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

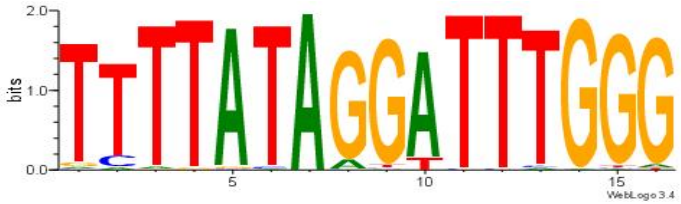

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0494747

Alignment:
CCCAAATCTCATSTTGAAT
CCCAAGTCCC---------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

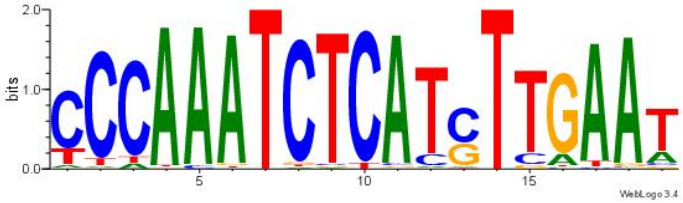

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

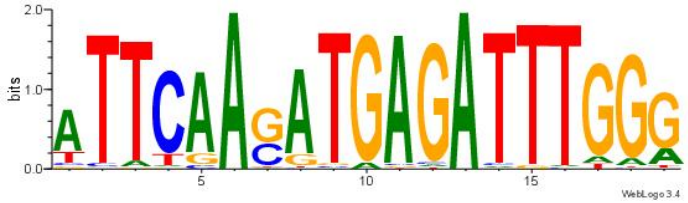

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0498601

Alignment:
ACAAGGCAAGTCCCTTCY
----CCCAAGTCCC----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

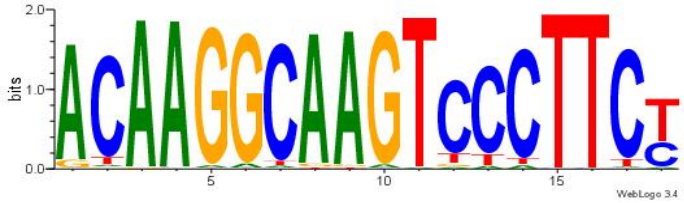

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

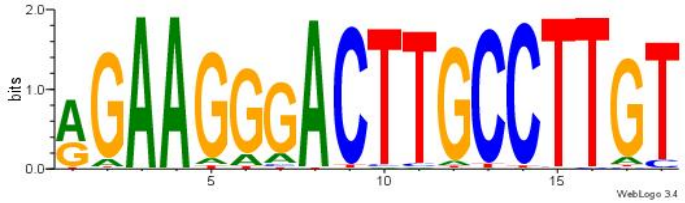

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0528606

Alignment:

```
ATGGACTTGAGA
-GGGACTTGGG-
```

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

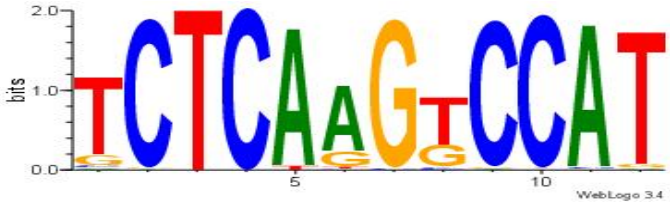

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0606246

Alignment:

```
GCGMGCGGGAACCGGGGCT
-------GGGACTTGGG--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

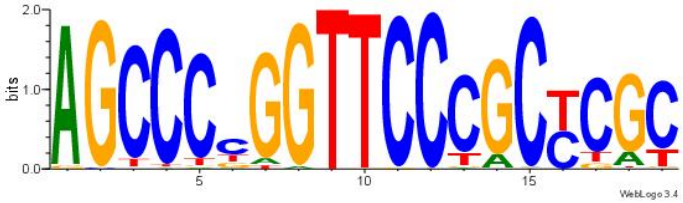

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

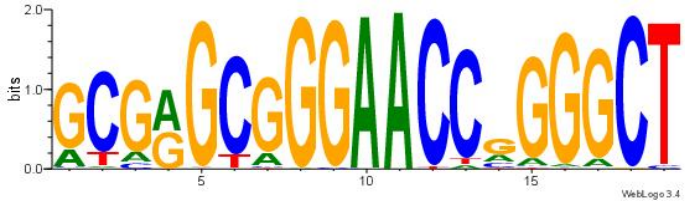

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 10
Similarity score: 0.0616212

Alignment:
ACTTTGGACTGTGGACTTTT
----GGGACTTGGG------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

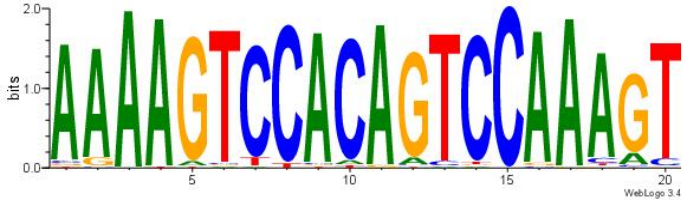

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

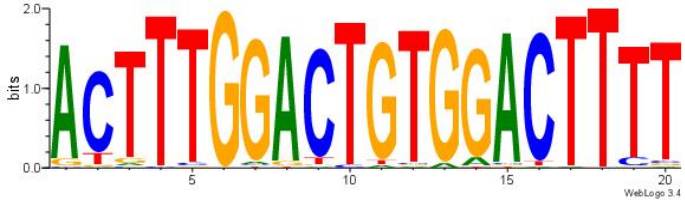

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0623184

Alignment:
CTCRAATGTCCCTT
--CCCAAGTCCC--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

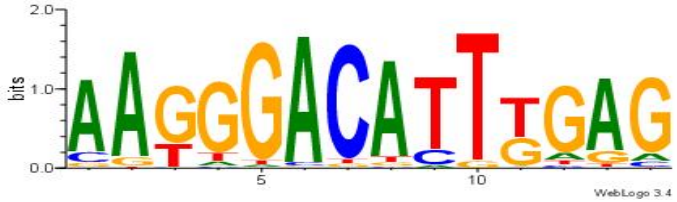

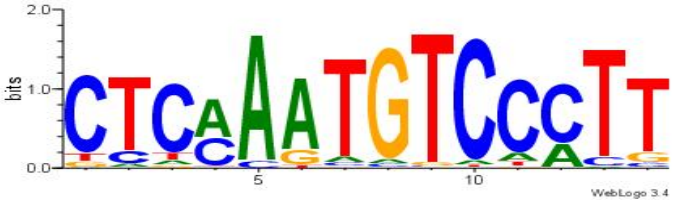

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0627019

Alignment:

```
TACCTGAGACTGGGTAATTT
-----GGGACTTGGG-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

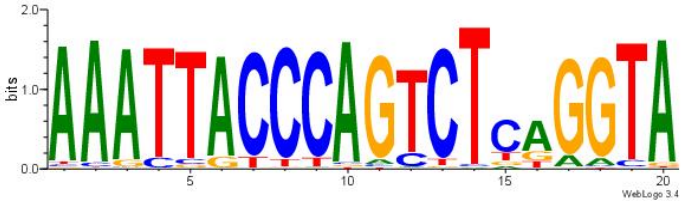

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

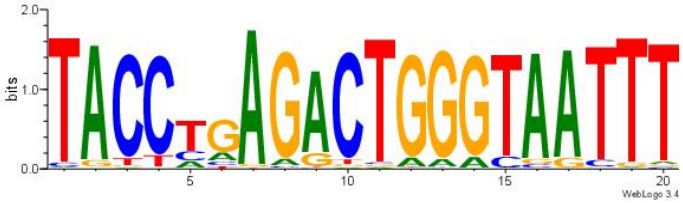

Dataset #: 1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0633478

Alignment:

```
GCAWSTGCAAAGGCCCT
------CCCAAGTCCC-
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

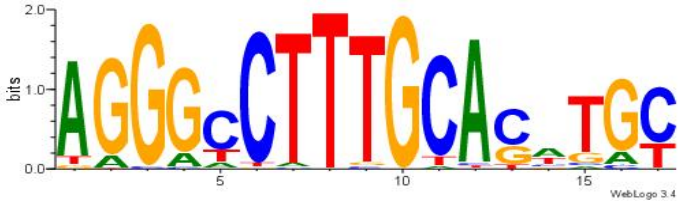

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

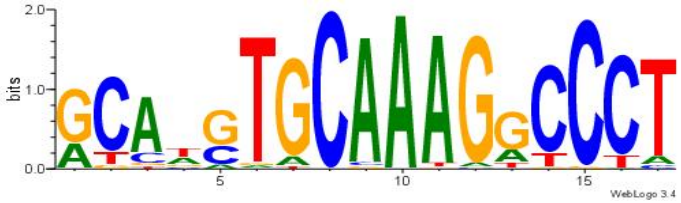

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0641718

Alignment:
CGCGGCGCTTGCGGGCCAGC
---GGGACTTGGG-------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

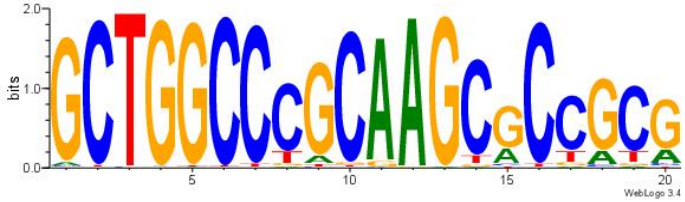

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

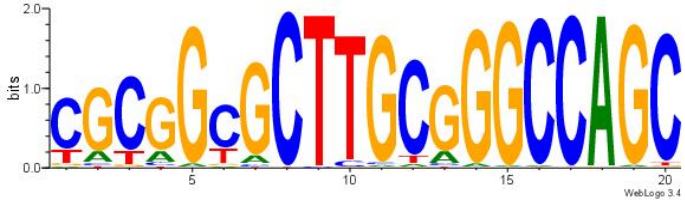

Dataset #: 1
Motif ID: 323
Motif name: Motif 323
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0645347

Alignment:
GCTCTCAGGTCCA
---CCCAAGTCCC

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

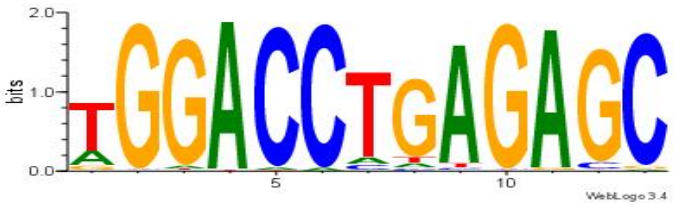

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0661321

Alignment:

```
TAMGACCTCAGGTCCTCAG
------CCCAAGTCCC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

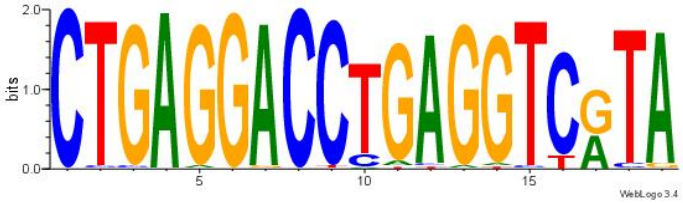

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

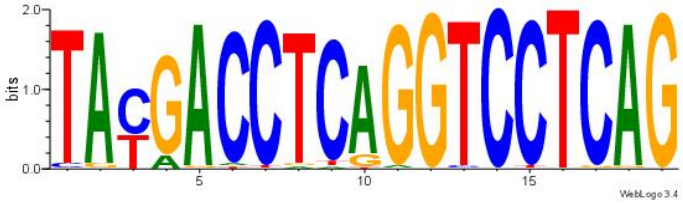

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0663599

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-------GGGACTTGGG---
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

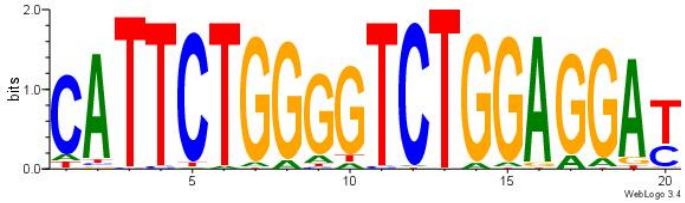

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

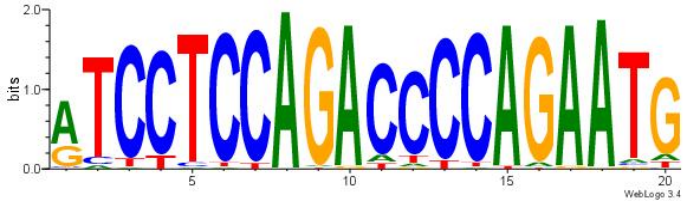

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.0676626

Alignment:
GAAGGCAGCTAAGGCCCGGY
-------CCCAAGTCCC---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

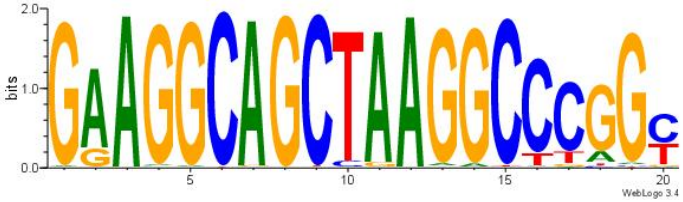

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

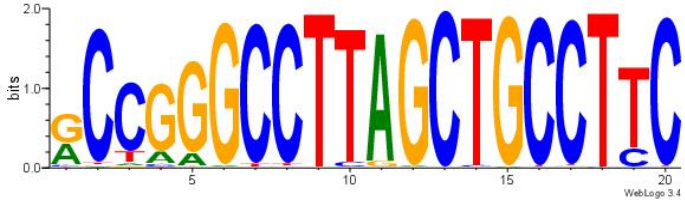

Dataset #: 1
Motif ID: 11
Motif name: Motif 11
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.067829

Alignment:
CTCAAGGTCCA
CCCAAGTCCC-

Original motif Consensus sequence: CTCAAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTTGAG

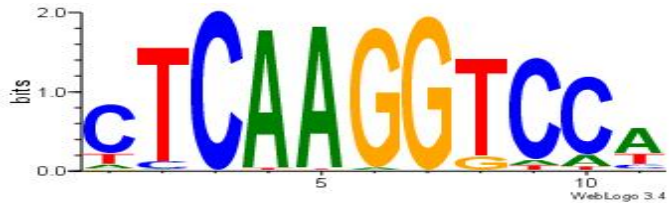

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0679119

Alignment:

```
AGTTCCGGGTGGGCGTGGG
GGGACTTGGG---------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

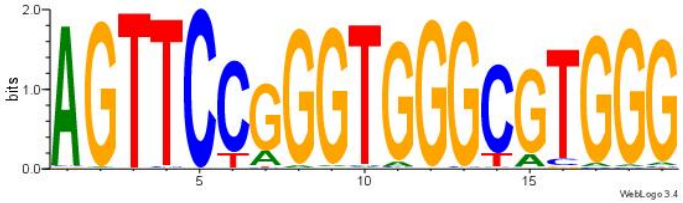

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

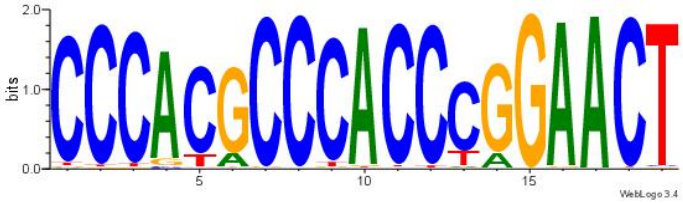

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0692337

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GGGACTTGGG----------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

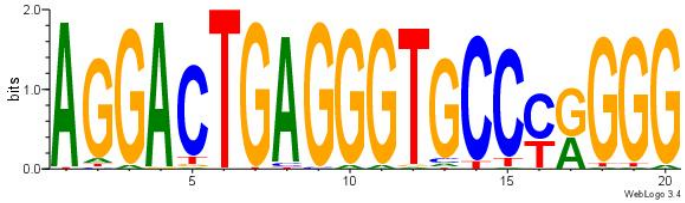

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

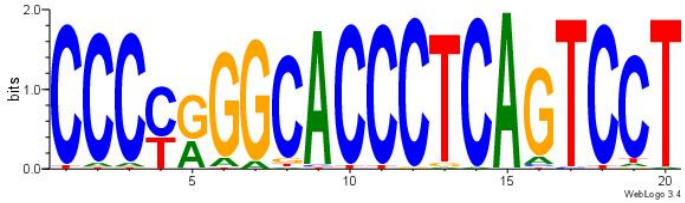

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0693924

Alignment:
GGGGTTGGGG
GGGACTTGGG

Original motif Consensus sequence: CCCCAACCCC

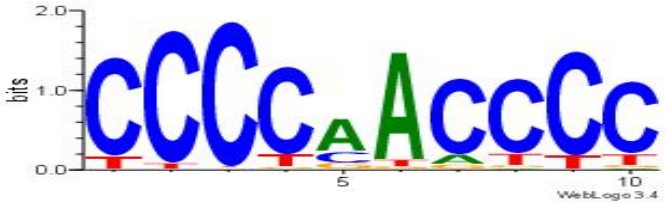

Reverse complement motif Consensus sequence: GGGGTTGGGG

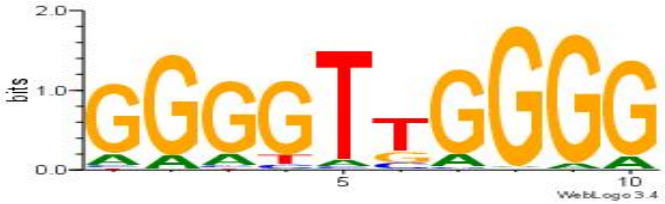

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0699442

Alignment:
AAGTCTCCCAATTACAACT
---CCCAAGTCCC------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

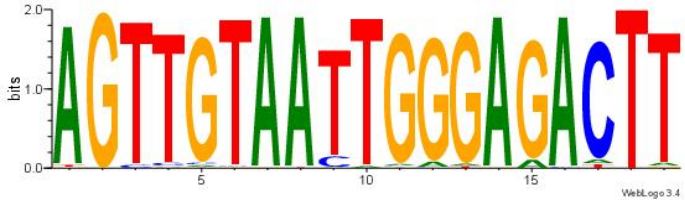

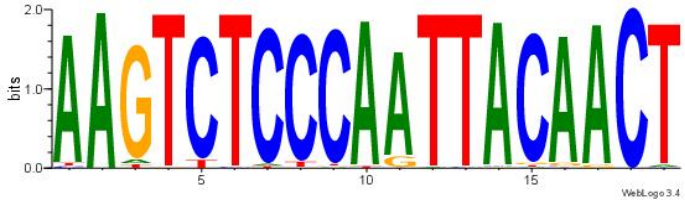

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0705039

Alignment:

```
GCACATGTCGCT
-CCCAAGTCCC-
```

Original motif Consensus sequence: AGCGACATGTGC

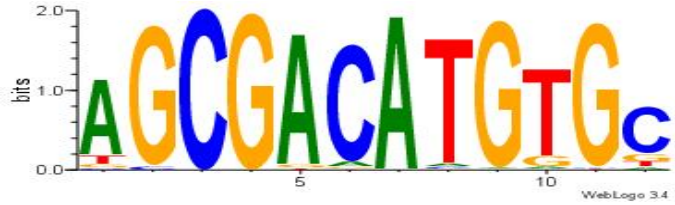

Reverse complement motif Consensus sequence: GCACATGTCGCT

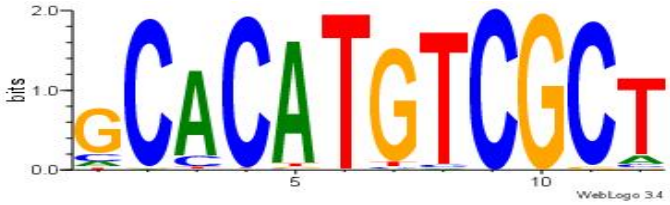

Dataset #:	1
Motif ID:	264

Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0706887

Alignment:

```
TGTGACCTTGG
-GGGACTTGGG
```

Original motif Consensus sequence: CCAAGGTCACA

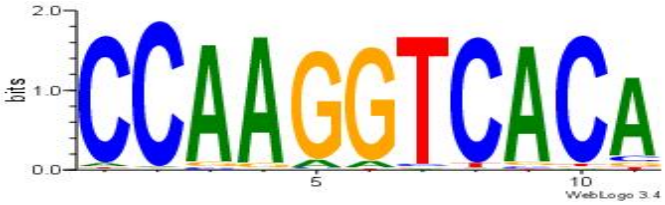

Reverse complement motif Consensus sequence: TGTGACCTTGG

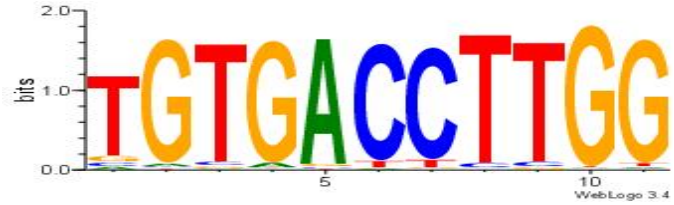

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0720149

Alignment:
GAAHCAACCKAAKTGTCCAT
---CCCAAGTCCC-------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

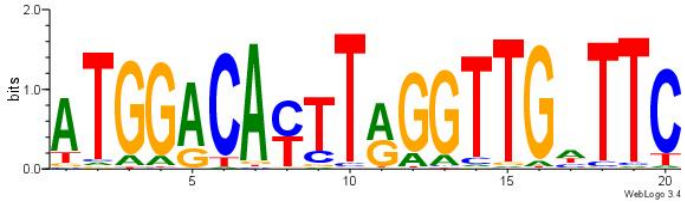

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

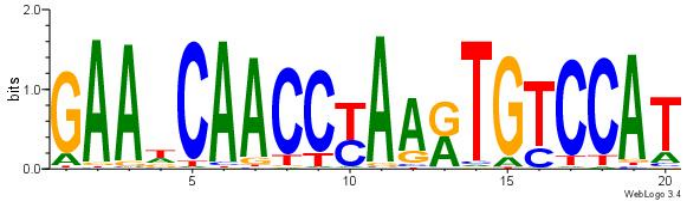

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0735089

Alignment:
KGCAACCTAGATCCCT
-CCCAAGTCCC-----

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence:
KGCAACCTAGATCCCT

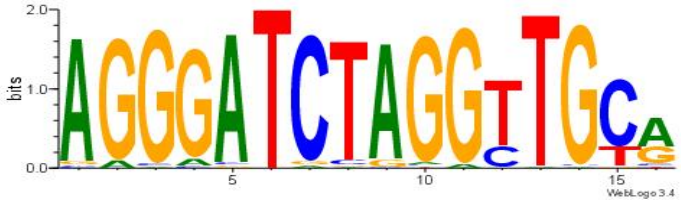

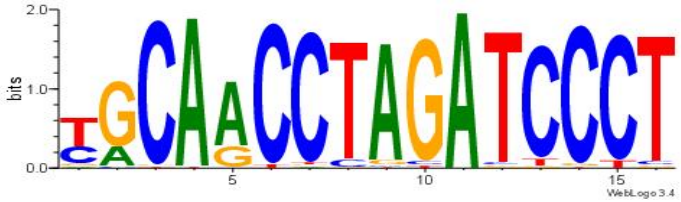

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0754922

Alignment:

```
CCCATGCAAGTCYRAAATCC
----CCCAAGTCCC------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

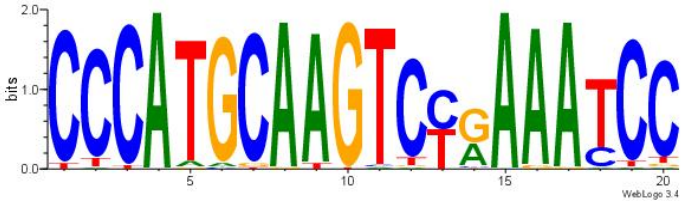

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

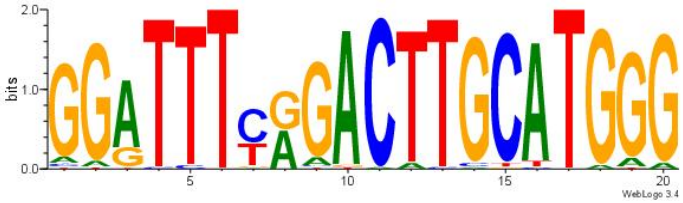

Dataset #: 1

Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0761093

Alignment:

```
TGGGTTCYTGGTC
--GGGACTTGGG-
```

Original motif Consensus sequence: GACCAMGAACCCA

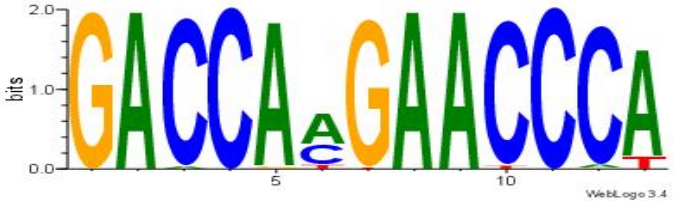

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

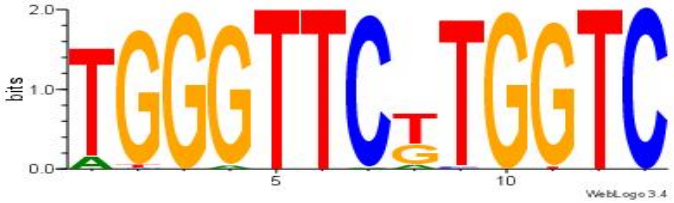

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0770656

Alignment:
AAGTTCTKGGKTACATGTGC
---------GGGACTTGGG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

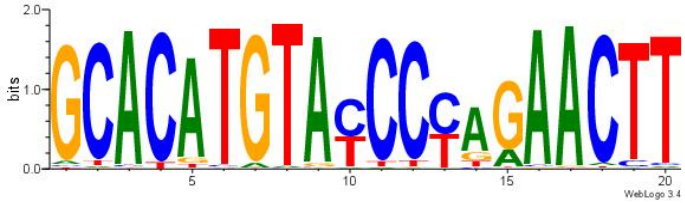

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

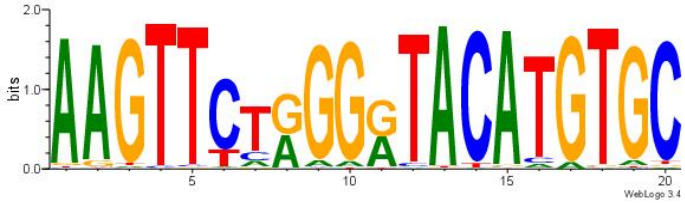

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0781411

Alignment:
TAGTGGTGATTTSTGAGAT
-----GGGACTTGGG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

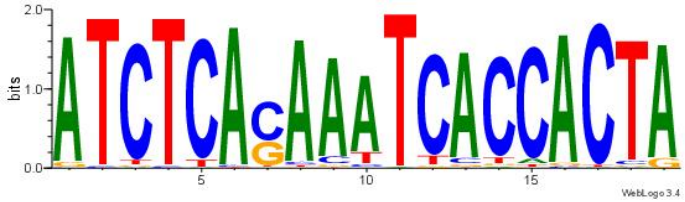

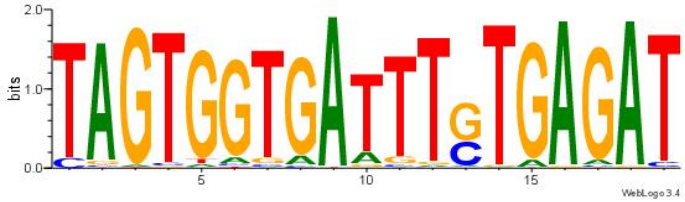

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0784139

Alignment:

```
AACAACASACACTGGGGCCT
-------GGGACTTGGG---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

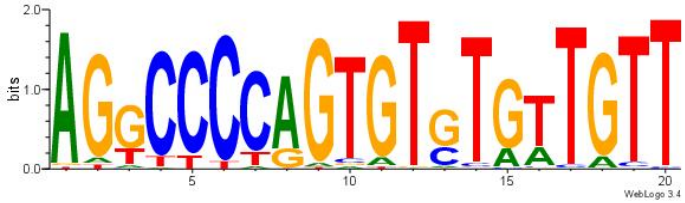

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

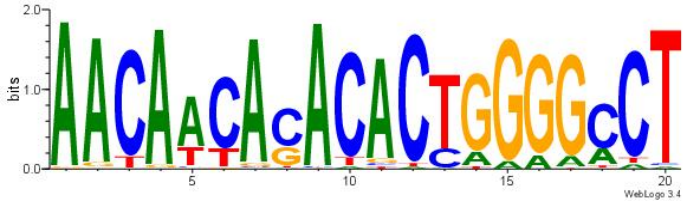

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0792153

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-----GGGACTTGGG-----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

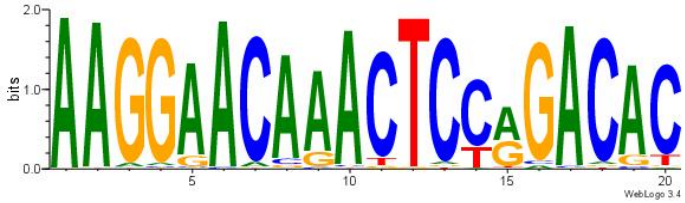

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

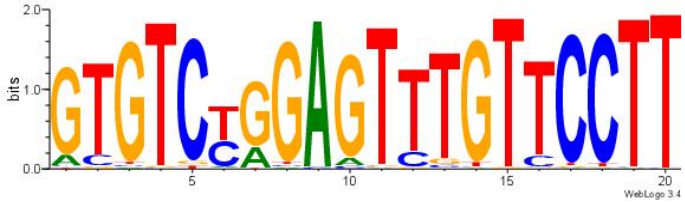

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0792747

Alignment:
TGGGGGWGGGG
-GGGACTTGGG

Original motif Consensus sequence: CCCCWCCCCCA

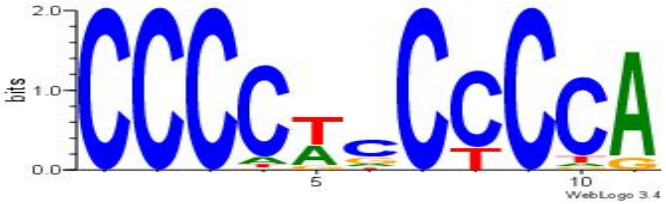

Reverse complement motif Consensus sequence: TGGGGGWGGGG

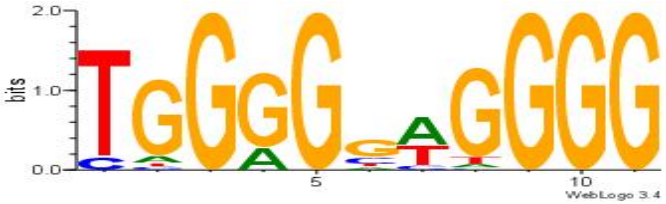

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0798588

Alignment:
CTTGCCCAAGGTCACACAGC
------CCCAAGTCCC----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

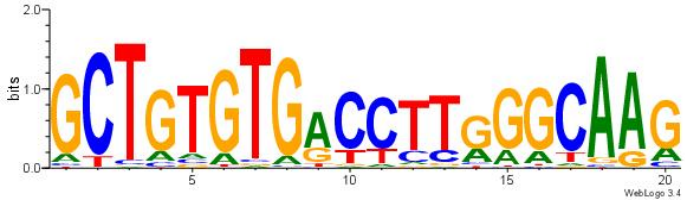

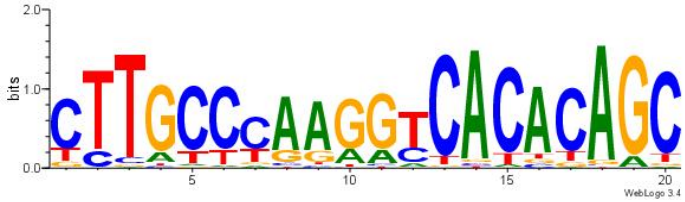

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0808285

Alignment:

```
ATGTAACCAAAYACCACCTG
-----CCCAAGTCCC-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

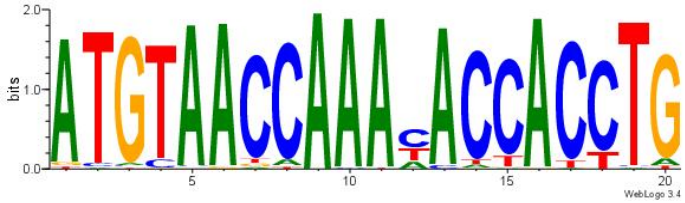

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

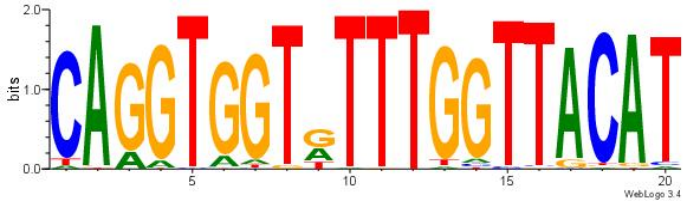

Dataset #:	1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0834981

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
GGGACTTGGG----------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

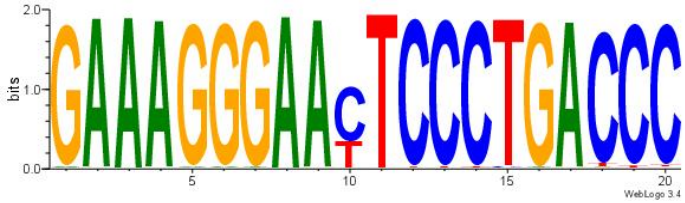

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

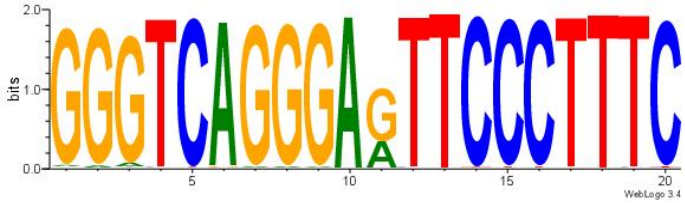

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0836701

Alignment:
AAGTCCAAGATCAAGGTGYY
---CCCAAGTCCC-------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

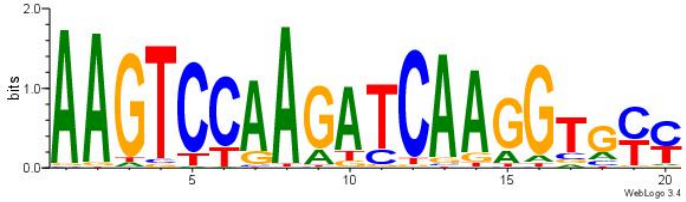

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

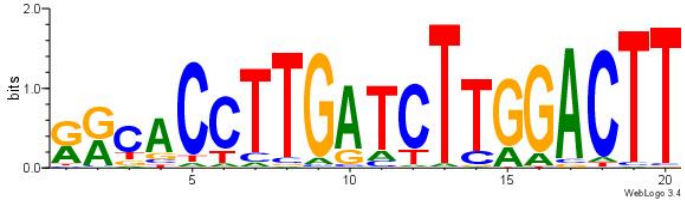

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0839823

Alignment:
GCTGGCCCKGGTGCTAAGC
----CCCAAGTCCC-----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

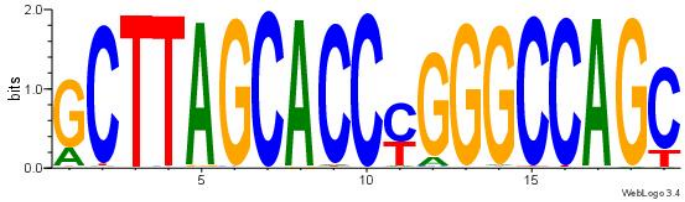

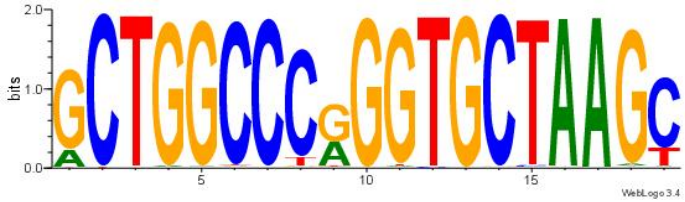

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0843026

Alignment:

```
CCGCGGGGCAGGGCTCG
----GGGACTTGGG---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

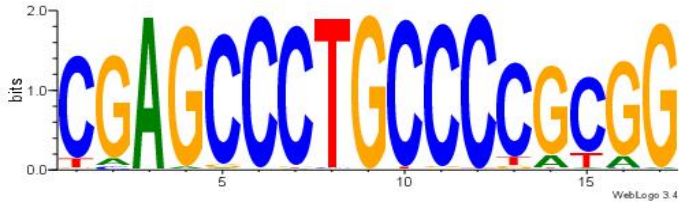

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

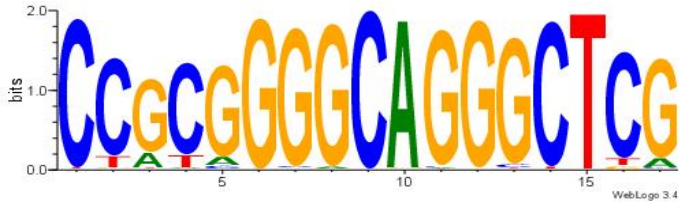

Dataset #:	1

Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0854137

Alignment:

```
CCGCACTCGGAGCRG
----GGGACTTGGG-
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

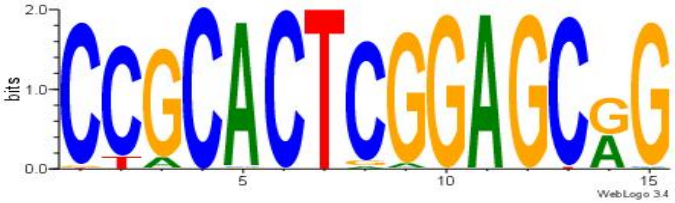

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

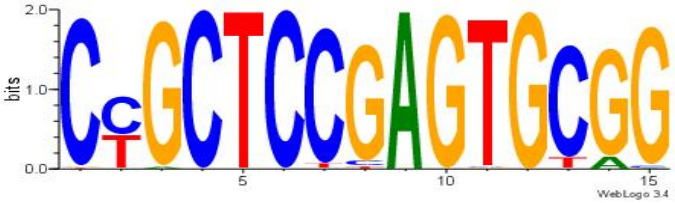

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.085858

Alignment:
CTCACCTCCTGC
CCCAAGTCCC--

Original motif Consensus sequence: CTCACCTCCTGC

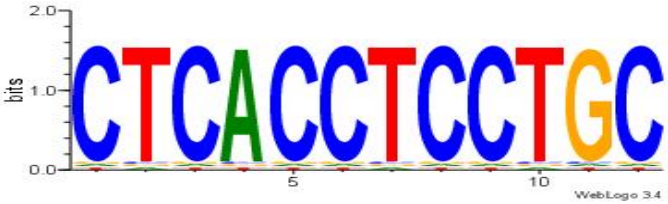

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

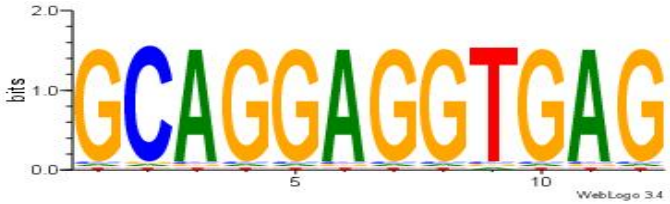

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0859031

Alignment:
GGAGCCGGCTCCCTCAGCTT
-------CCCAAGTCCC---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

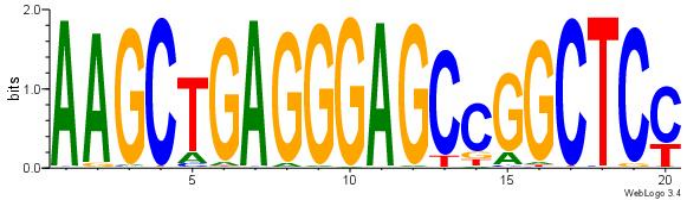

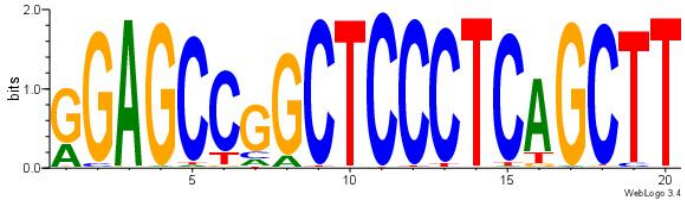

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.086087

Alignment:

```
CACCAGACTCAGGAGCCCAG
----------CCCAAGTCCC
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

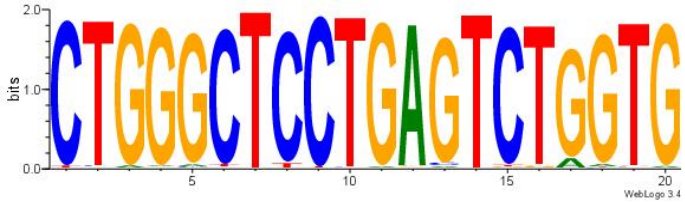

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

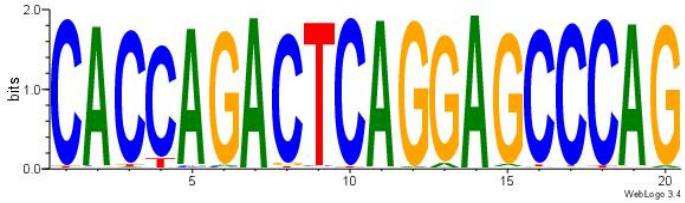

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.086411

Alignment:

```
TCCCTCCCGGACGGGGYGGC
---GGGACTTGGG-------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

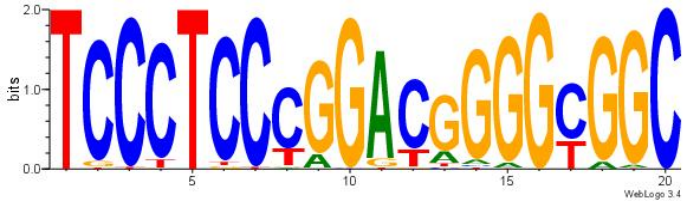

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

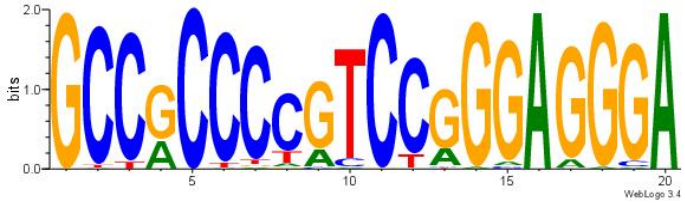

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0864559

Alignment:
CACTTTCCAGACTGGGCA
-------GGGACTTGGG-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

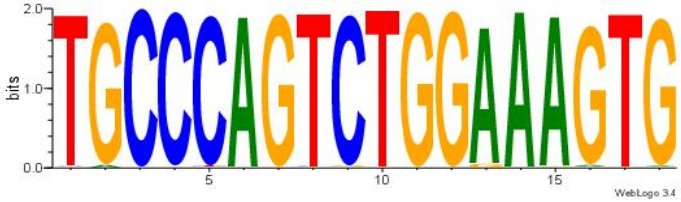

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

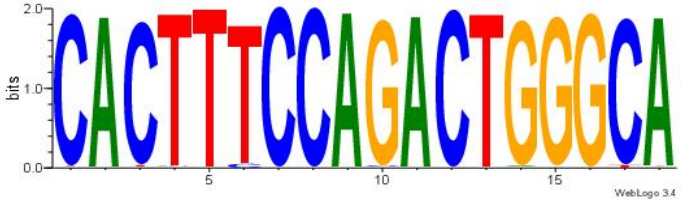

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0866795

Alignment:
TMGGGAGGCTGAGGCAGGAG
----GGGACTTGGG------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

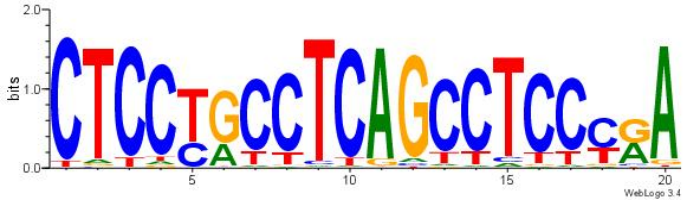

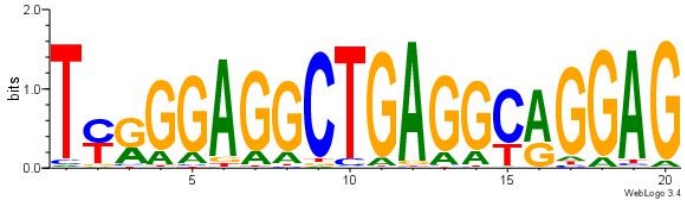

Dataset #:	1
Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0866986

Alignment:

```
AGCCTAGGCCTAC
-CCCAAGTCCC--
```

Original motif Consensus sequence: AGCCTAGGCCTAC

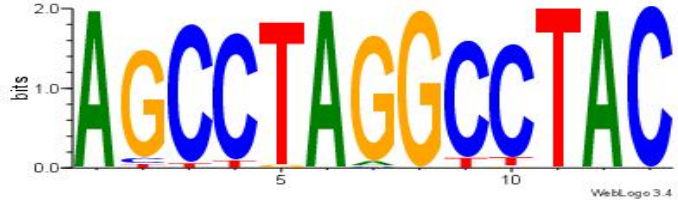

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

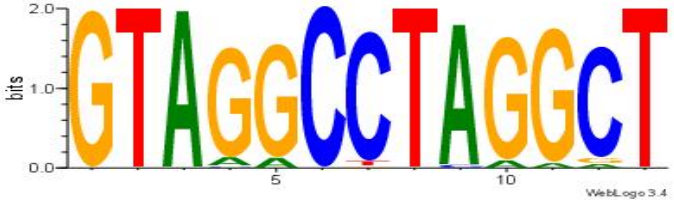

Dataset #:	1
Motif ID:	47

Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0869599

Alignment:

```
MGGAAACTGAGGC
--GGGACTTGGG-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

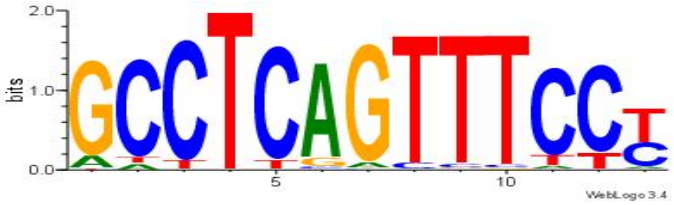

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

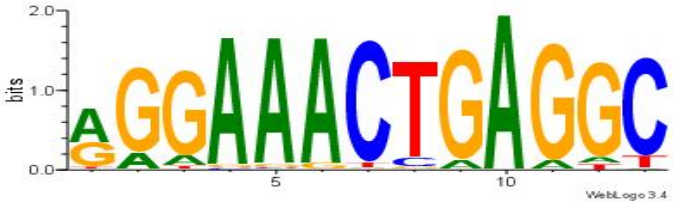

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0870048

Alignment:
GGGCTCCCACAGTGCAGCGG
----CCCAAGTCCC------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

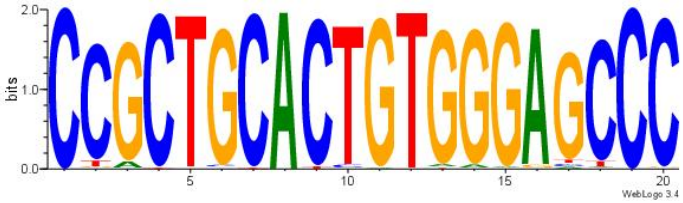

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

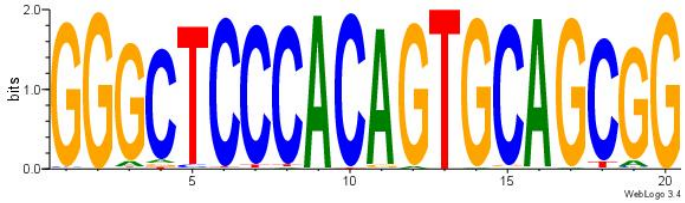

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0874318

Alignment:
CATCTGGAGCCCCA
---CCCAAGTCCC-

Original motif Consensus sequence: CATCTGGAGCCCCA

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

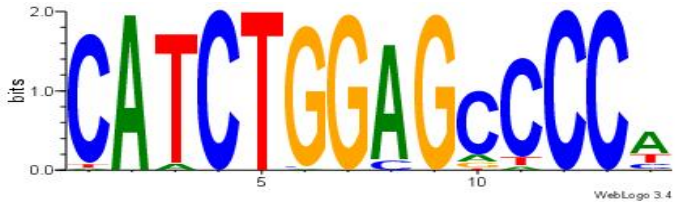

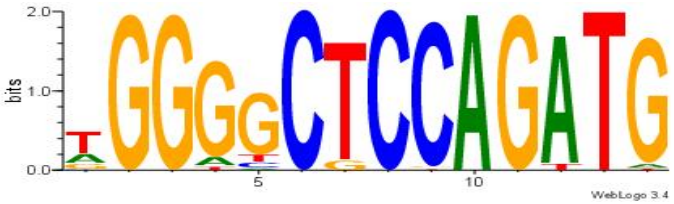

Dataset #:	1
Motif ID:	90
Motif name:	Motif 90
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0874937

Alignment:

```
KGCAATGGGG
GGGACTTGGG
```

Original motif Consensus sequence: CCCCATTGCY

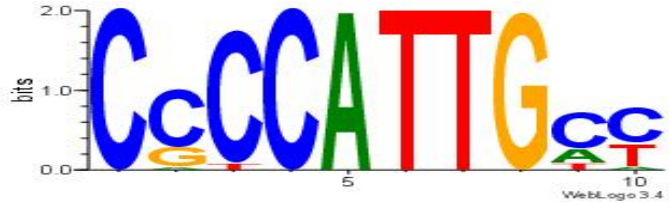

Reverse complement motif Consensus sequence: KGCAATGGGG

Dataset #:	1
Motif ID:	138

Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0876827

Alignment:

```
GGSKGATCTGGCTG
--GGGACTTGGG--
```

Original motif Consensus sequence: CAGCCAGATCRSCC

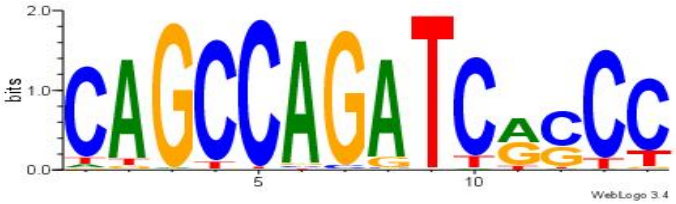

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

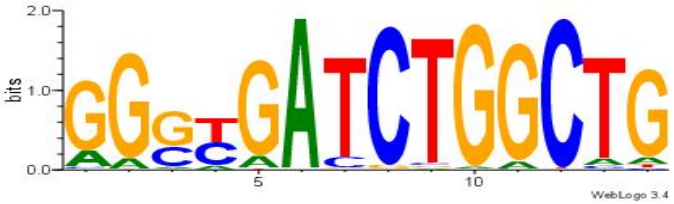

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0881979

Alignment:
GGCACTGCTGGGGGACCCAG
GGGACTTGGG----------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

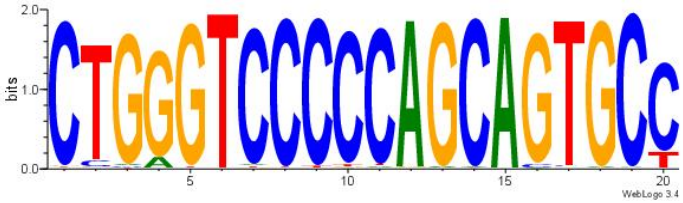

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

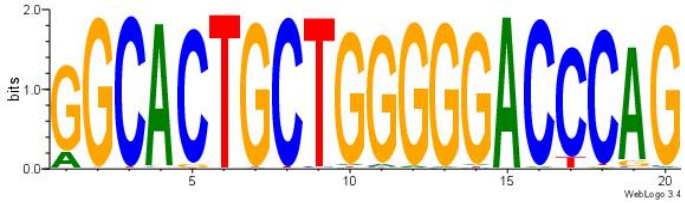

Dataset #: 1 Motif ID: 238 Motif name: Motif 238

Original motif Consensus sequence: ACATGGGCG

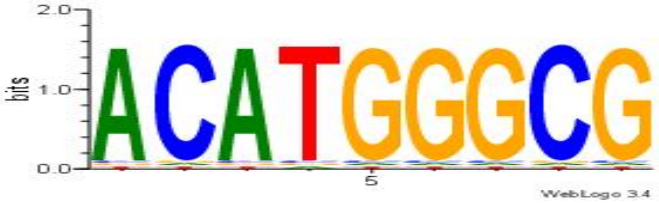

Reverse complement motif Consensus sequence: CGCCCATGT

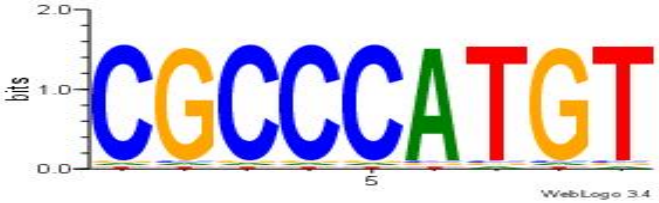

Best Matches for Significant Motif ID 238 (Highest to Lowest)

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

Position number:	2
Number of overlap:	9
Similarity score:	0.0421539

Alignment:
CACATGGAAGC
-ACATGGGCG-

Original motif Consensus sequence: CACATGGAAGC

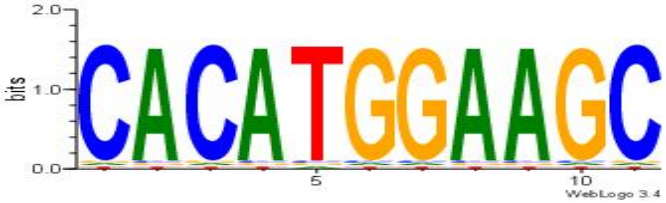

Reverse complement motif Consensus sequence: GCTTCCATGTG

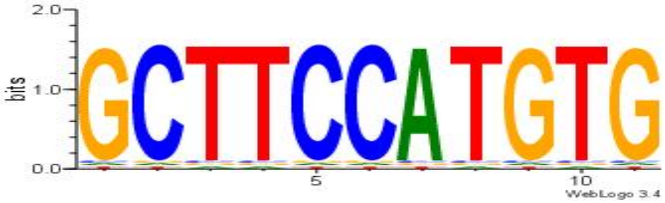

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0421539

Alignment:
TACAGGTGCGT
-ACATGGGCG-

Original motif Consensus sequence: ACGCACCTGTA

Reverse complement motif Consensus sequence: TACAGGTGCGT

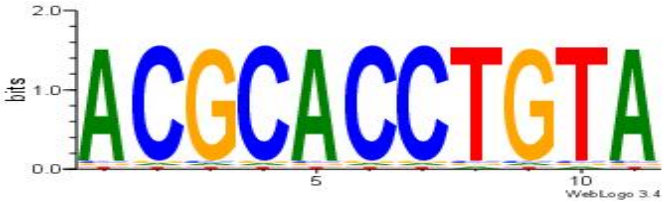

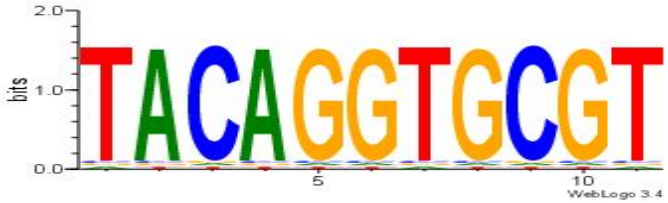

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0532025

Alignment:

```
TCCAAATGGGAGAAATTGGC
---ACATGGGCG--------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

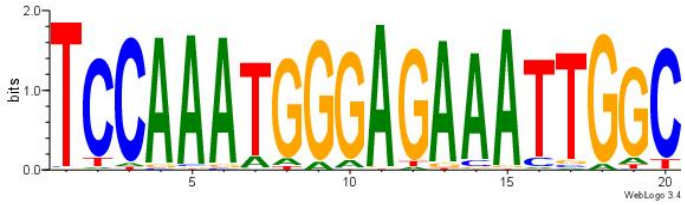

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

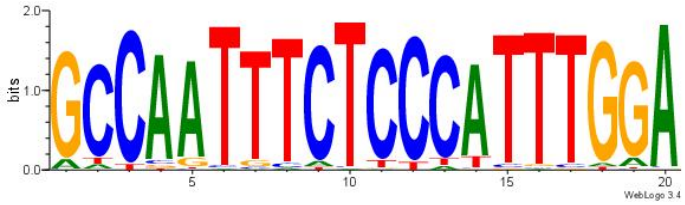

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0536448

Alignment:

```
CGCCCATCGTCTGGGATGT
CGCCCATGT----------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

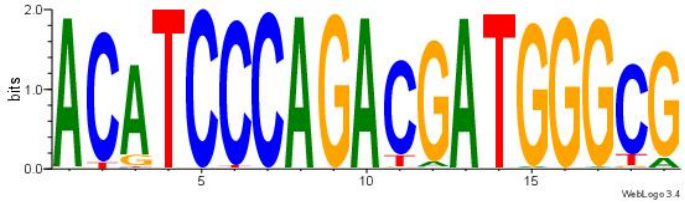

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

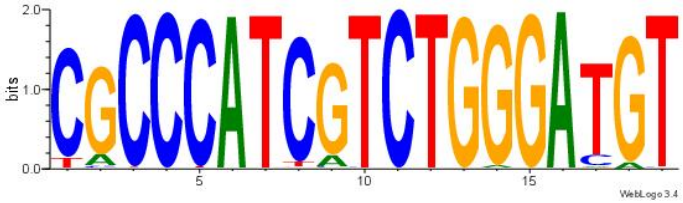

Dataset #:	1
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0544118

Alignment:
CCATGTGCGG
ACATGGGCG-

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Dataset #: 1
Motif ID: 141
Motif name: Motif 141
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0545198

Alignment:
AAGGTCCATGTAG
--CGCCCATGT--

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

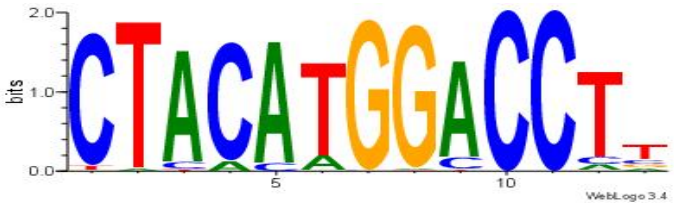

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0549617

Alignment:

```
GACATGAGCTGGCGCTTG
-ACATGGGCG--------
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

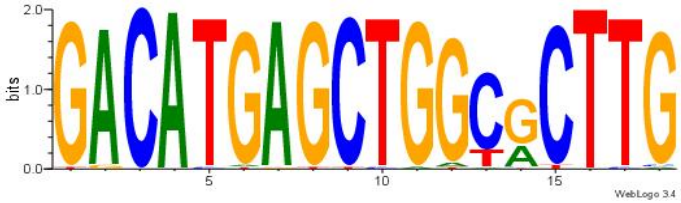

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

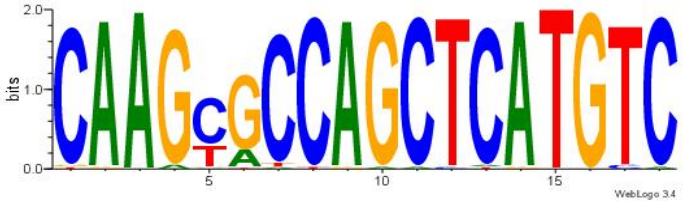

Dataset #:	1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0551148

Alignment:

```
TGTCCATGTGTTCTC
CGCCCATGT------
```

Original motif Consensus sequence: GAGAACACATGGACA

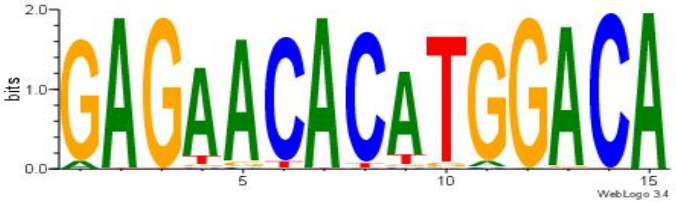

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

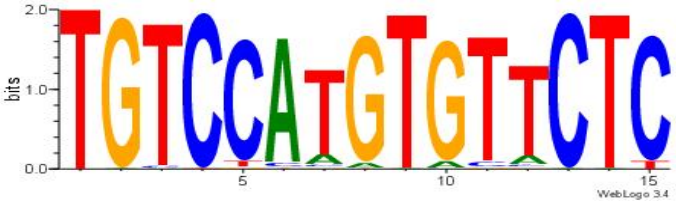

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0558418

Alignment:
GCACAGGAGCGG
-ACATGGGCG--

Original motif Consensus sequence: CCGCTCCTGTGC

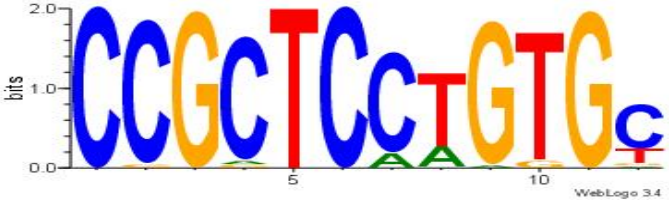

Reverse complement motif Consensus sequence: GCACAGGAGCGG

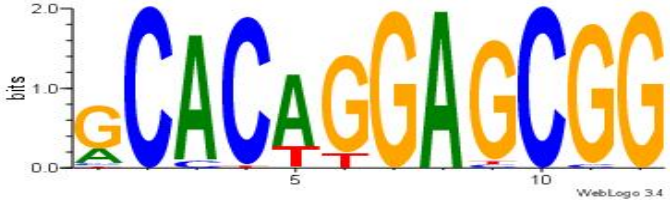

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0610149

Alignment:
CAACATGGATGRARCTGGAG
--ACATGGGCG---------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

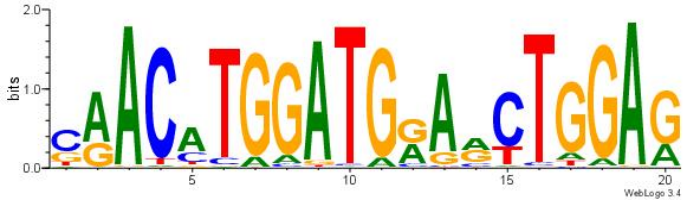

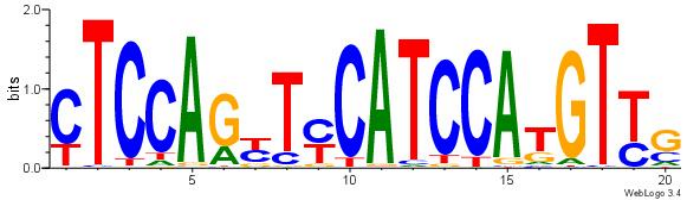

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0624234

Alignment:

```
GAGACTCCGTGGGCGT
-ACATGGGCG------
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

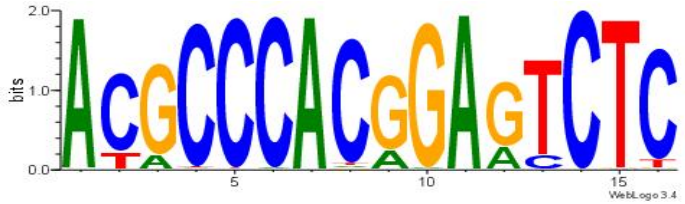

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

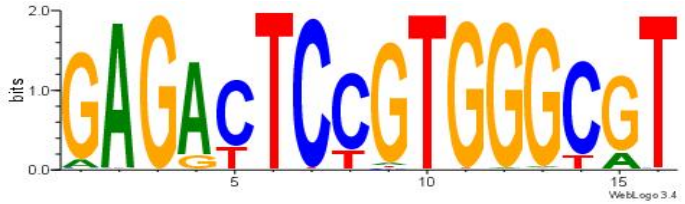

Dataset #: 1

Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.063714

Alignment:

```
AAGATGGCCGAAT
-ACATGGGCG---
```

Original motif Consensus sequence: AAGATGGCCGAAT

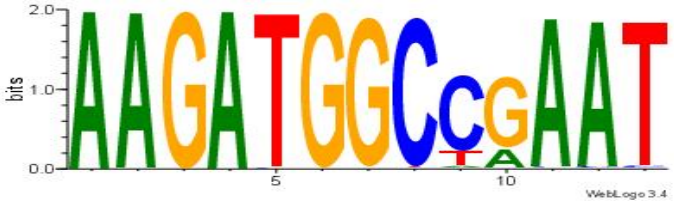

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

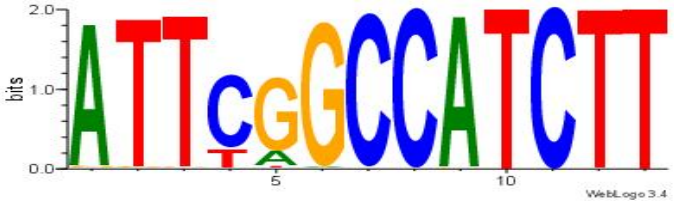

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0695986

Alignment:
GCTTAGCACCYGGGCCAGC
-------ACATGGGCG---

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

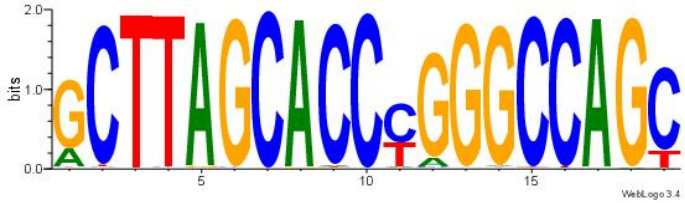

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

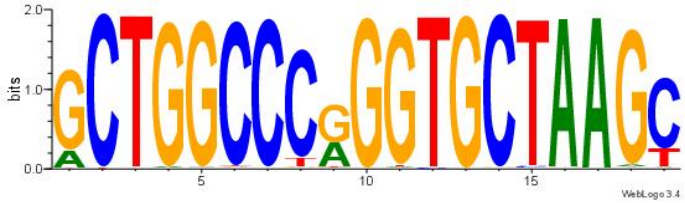

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0702249

Alignment:
AGCCCCGGTTCCCGCYCGC
----------CGCCCATGT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

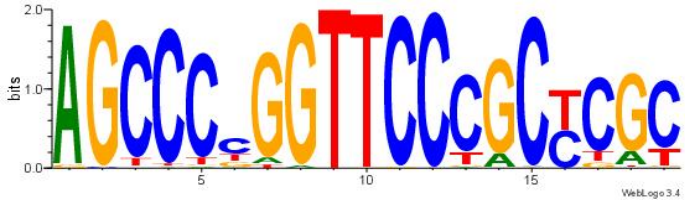

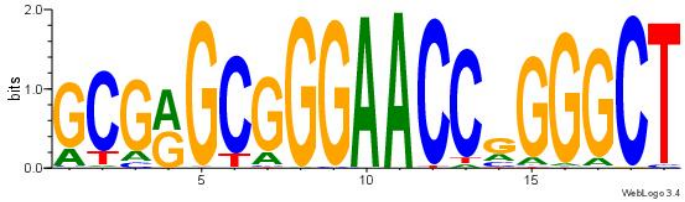

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0712973

Alignment:

```
AAGGGACATTKGAG
-----ACATGGGCG
```

Original motif Consensus sequence: AAGGGACATTKGAG

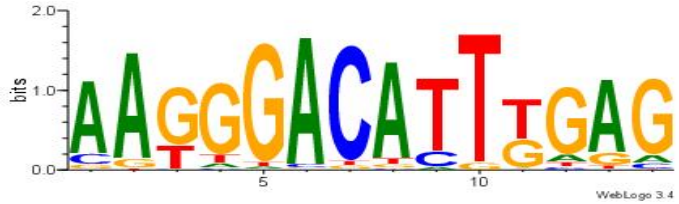

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

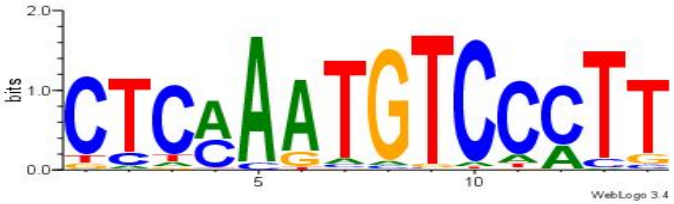

Dataset #:	1
Motif ID:	88

Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0728959

Alignment:

```
TGCAGCCCCGGT
---CGCCCATGT
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

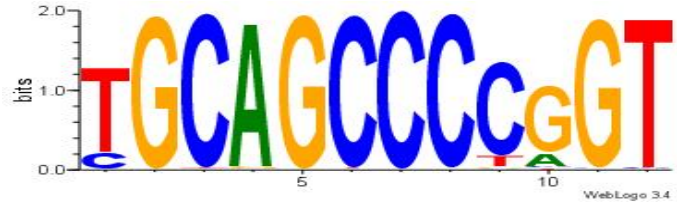

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0732817

Alignment:
AAGCTCGAACTGGGTGGAGC
-------ACATGGGCG----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

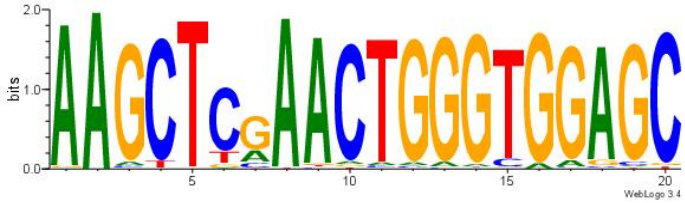

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

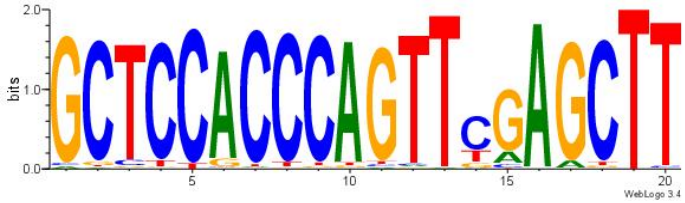

Dataset #:	1
Motif ID:	265
Motif name:	Motif 265
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0737646

Alignment:
GCGCATGCGCA
--ACATGGGCG

Original motif Consensus sequence: GCGCATGCGCA

Reverse complement motif Consensus sequence: TGCGCATGCGC

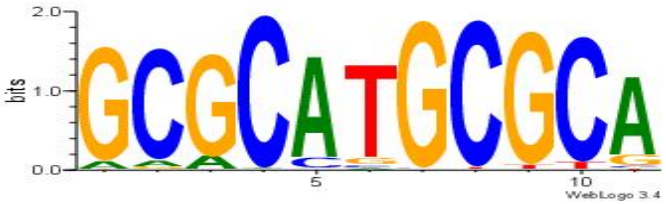

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0742397

Alignment:

```
AAGACGGGTGATTTCTG
-------ACATGGGCG-
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

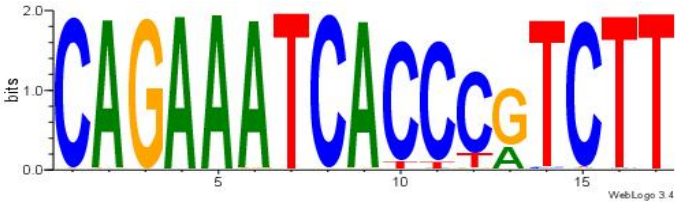

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

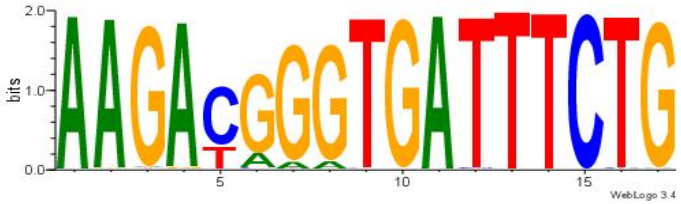

Dataset #: 1

Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0743752

Alignment:

```
GGGRSCACAGGAGCD
ACATGGGCG------
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

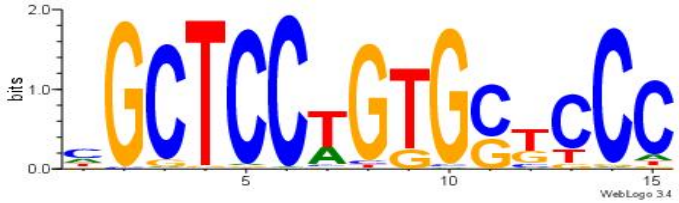

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9

Similarity score: 0.0758845

Alignment:
AGGCCCCAGTGTSTGTTGTT
--------CGCCCATGT---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

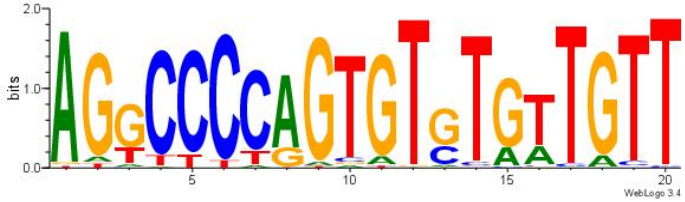

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

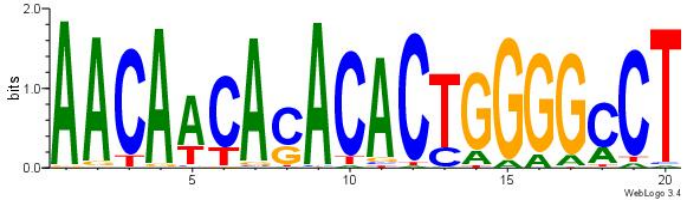

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0765792

Alignment:
AGTTCCGGGTGGGCGTGGG
------ACATGGGCG----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

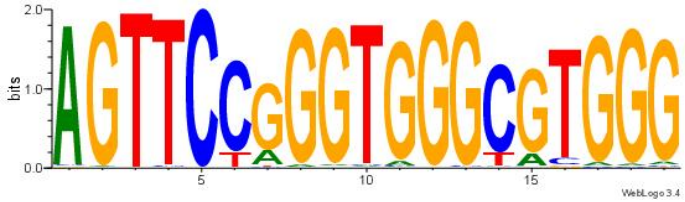

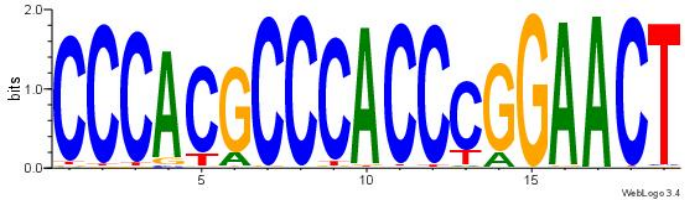

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0773172

Alignment:

```
CCTTTGACTCCATGTC
------CGCCCATGT-
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

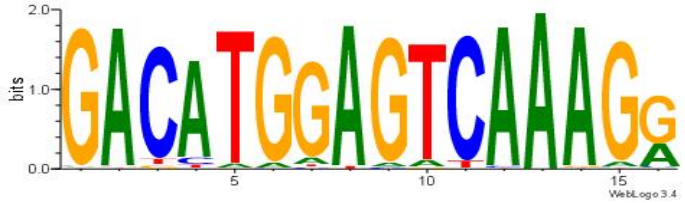

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

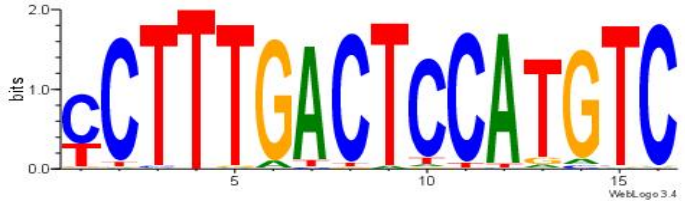

Dataset #:	1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.077381

Alignment:

```
TAAGTGGGAGCTAARC
-ACATGGGCG------
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

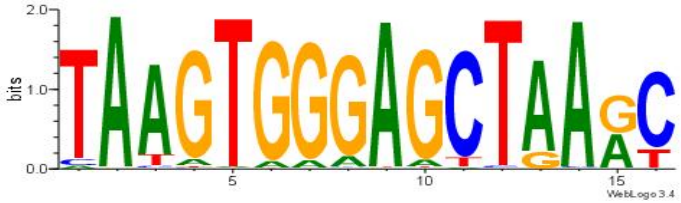

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

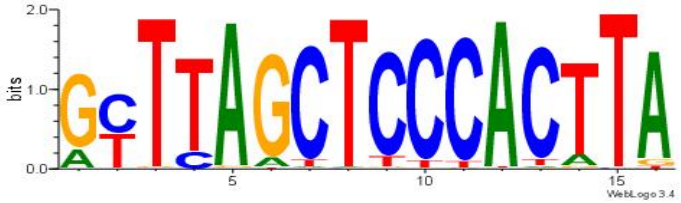

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9

Similarity score: 0.0777177

Alignment:
GKCTGTACCCCCATTGTAT
--------CGCCCATGT--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

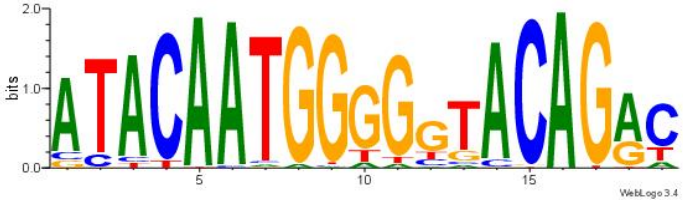

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

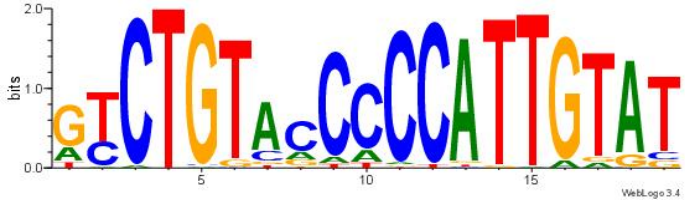

Dataset #: 1
Motif ID: 9
Motif name: Motif 9
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0781504

Alignment:
CACATGGAGC
-ACATGGGCG

Original motif Consensus sequence: CACATGGAGC

Reverse complement motif Consensus sequence: GCTCCATGTG

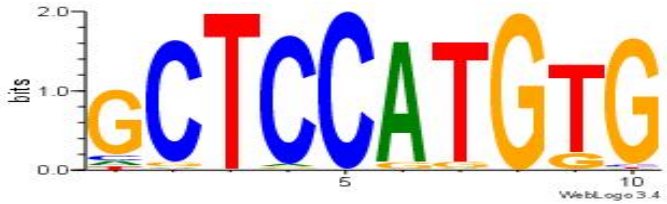

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0781823

Alignment:

```
GGTTCATCTCACTAGGGAGT
----------ACATGGGCG-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

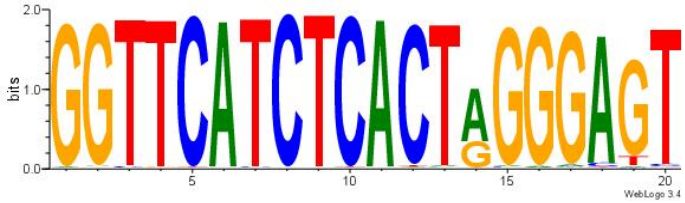

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

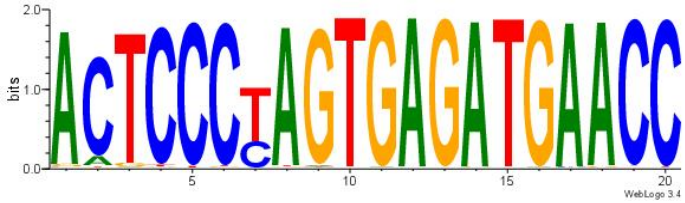

Dataset #:	1

Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0784481

Alignment:

```
CAAGATGGCGGC
--ACATGGGCG-
```

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

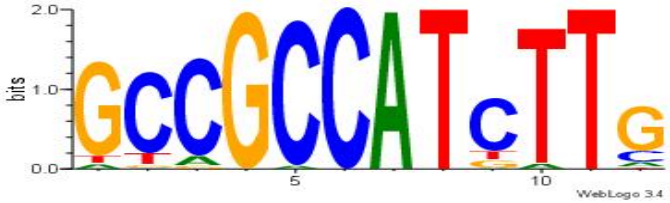

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0787823

Alignment:
CCTCCGTGGGCTCC
---ACATGGGCG--

Original motif Consensus sequence: CCTCCGTGGGCTCC

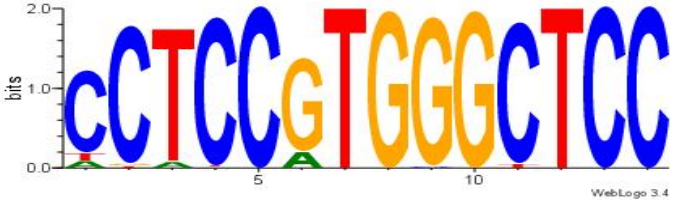

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

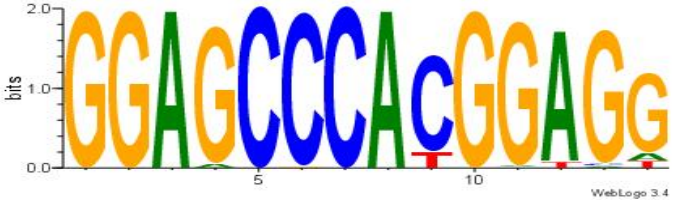

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0788305

Alignment:
AGTTGTAATTGGGAGACTT
------ACATGGGCG----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

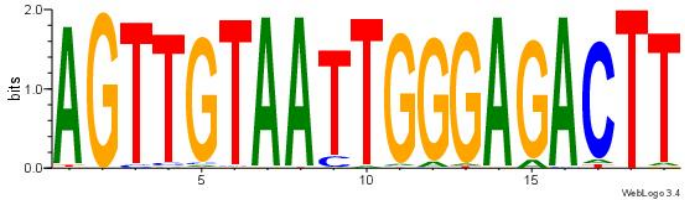

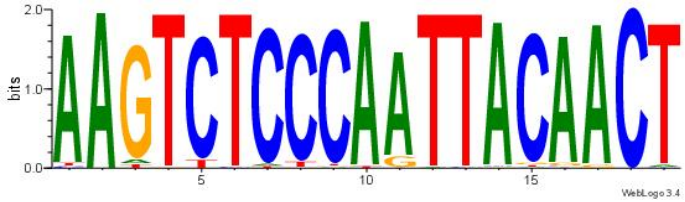

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0793354

Alignment:

```
CAAASCKGTCATAGGCCAT
--------ACATGGGCG--
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

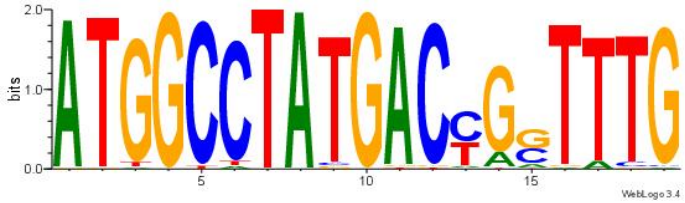

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

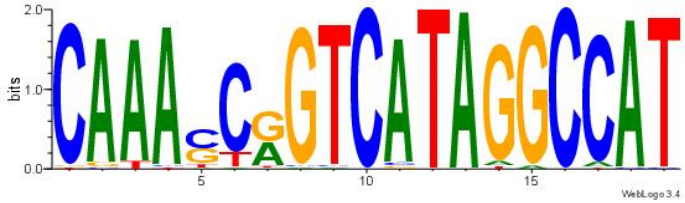

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0793886

Alignment:

```
AGCTCCCAGCGTGAGCGACG
--------ACATGGGCG---
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

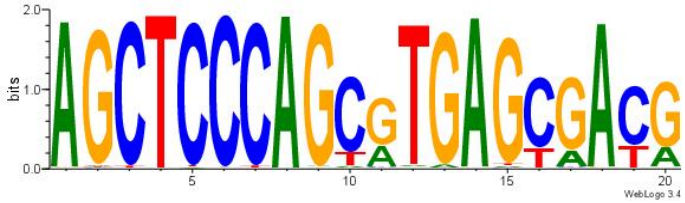

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

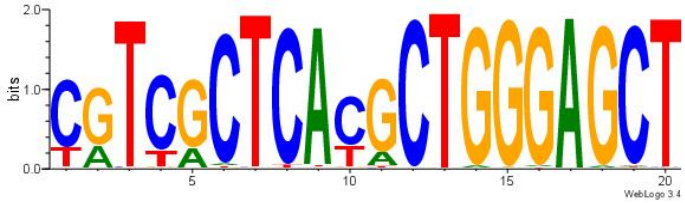

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9

Similarity score: 0.0794212

Alignment:
AGGTTTGTTACATAGGTAWA
---------ACATGGGCG--

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

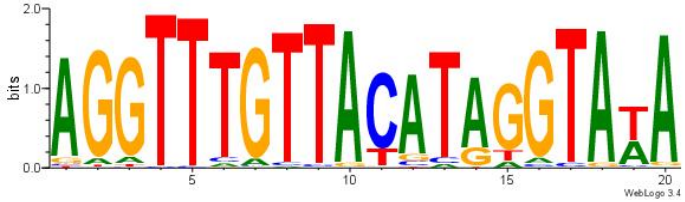

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

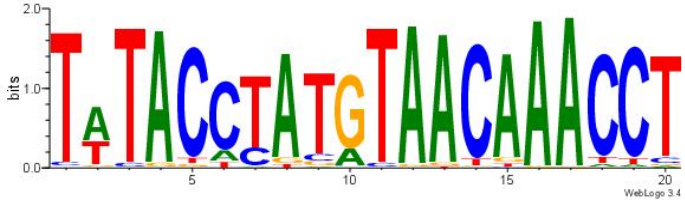

Dataset #: 1
Motif ID: 323
Motif name: Motif 323
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0799855

Alignment:
GCTCTCAGGTCCA
-CGCCCATGT---

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

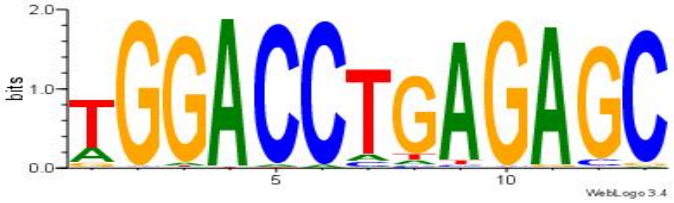

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0825731

Alignment:

```
CCCACACCCTTATTA
----CGCCCATGT--
```

Original motif Consensus sequence: CCCACACCCTTATTA

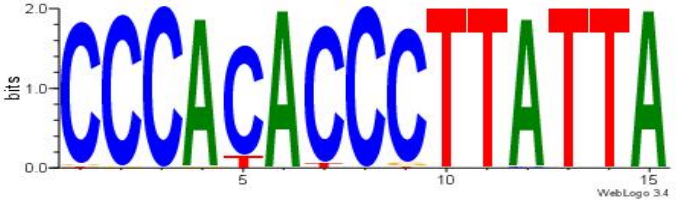

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

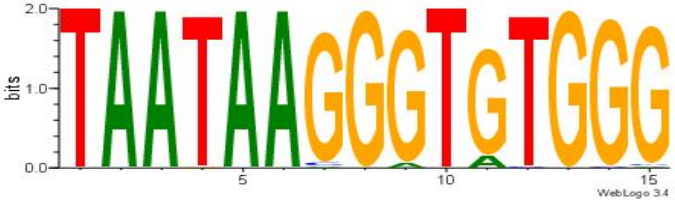

Dataset #:	1
Motif ID:	358

Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0826062

Alignment:

```
GGGGTGATGGACG
----ACATGGGCG
```

Original motif Consensus sequence: CGTCCATCACCCC

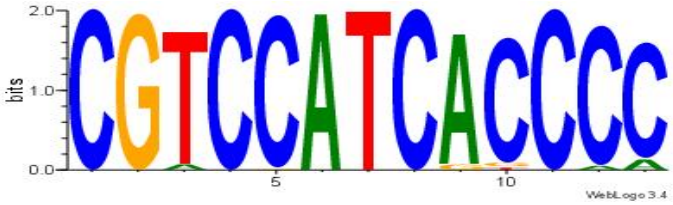

Reverse complement motif Consensus sequence: GGGGTGATGGACG

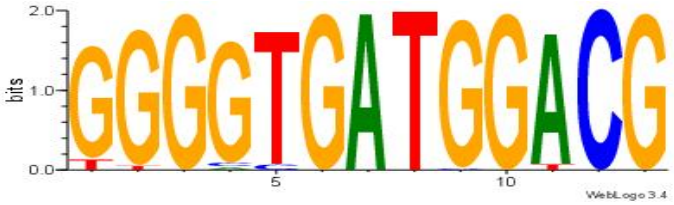

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.083101

Alignment:
TTTGGTGCACCCATCA
-------CGCCCATGT

Original motif Consensus sequence: TGATGGGTGCACCAAA

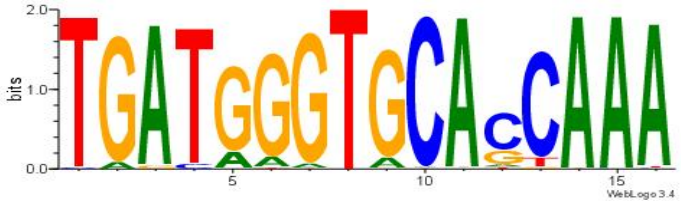

Reverse complement motif Consensus sequence:
TTTGGTGCACCCATCA

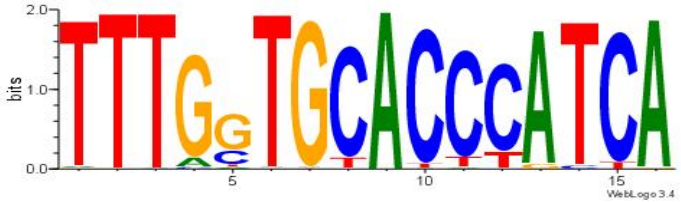

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.085211

Alignment:
GGCAATGCCTCGCCCTGCTT
----------CGCCCATGT-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

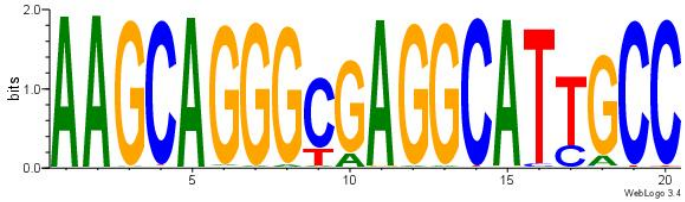

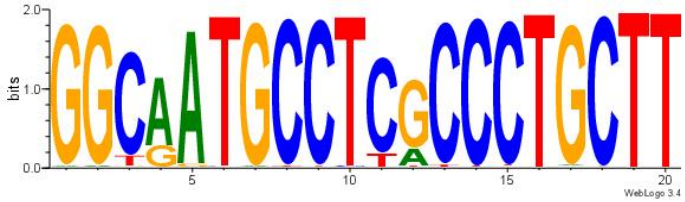

Dataset #:	1
Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0857708

Alignment:

```
TACTCMGGAGGCT
---ACATGGGCG-
```

Original motif Consensus sequence: AGCCTCCYGAGTA

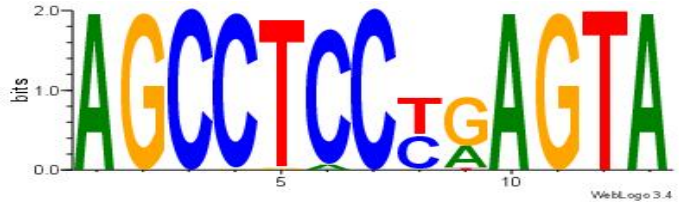

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

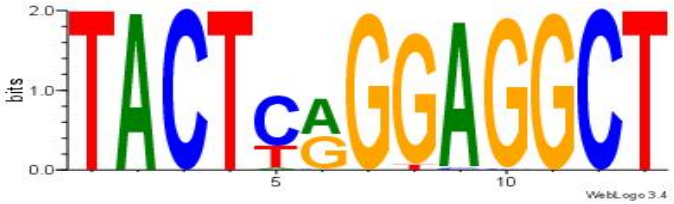

Dataset #:	1
Motif ID:	260

Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0864609

Alignment:

```
TTMGTCCCAGAGGGGCACC
--------ACATGGGCG--
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

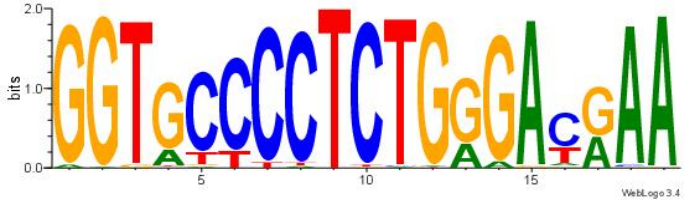

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

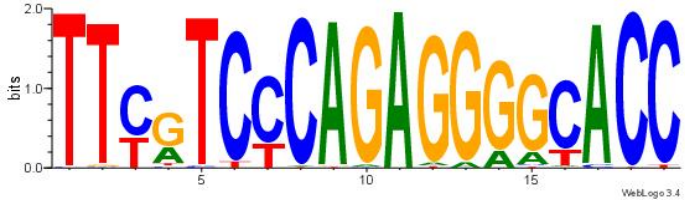

Dataset #:	1
Motif ID:	180
Motif name:	Motif 180
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0870336

Alignment:
TGCGCATGCGCA
---ACATGGGCG

Original motif Consensus sequence: TGCGCATGCGCA

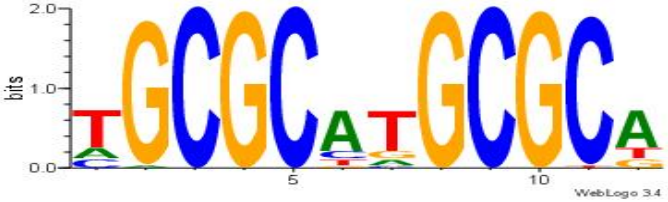

Reverse complement motif Consensus sequence: TGCGCATGCGCA

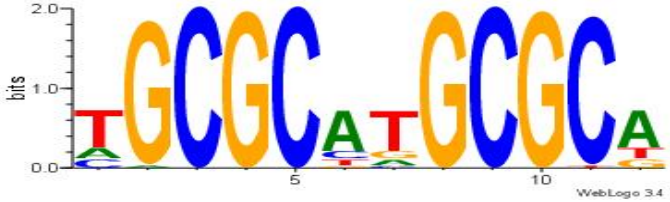

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0871954

Alignment:
GCACATGTAYCCYAGAACTT
--ACATGGGCG---------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

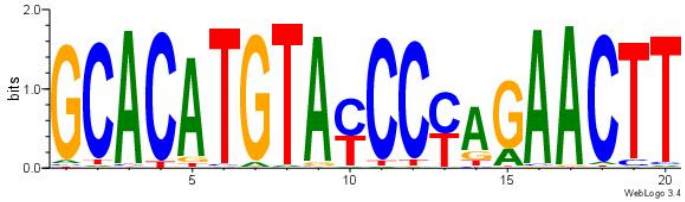

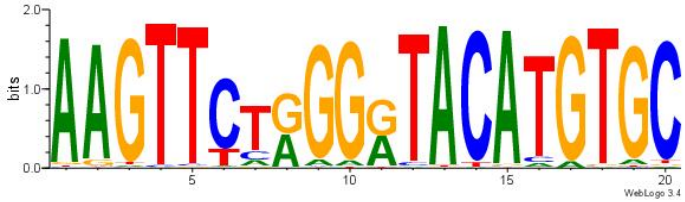

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0872633

Alignment:

```
TCKMGCCACTGCACTCCAGC
---CGCCCATGT--------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

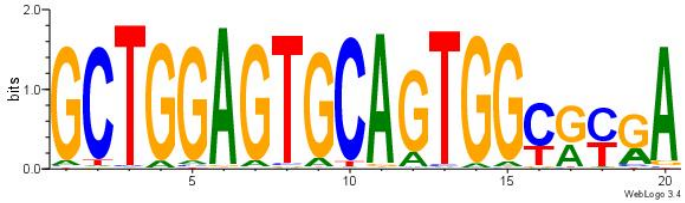

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

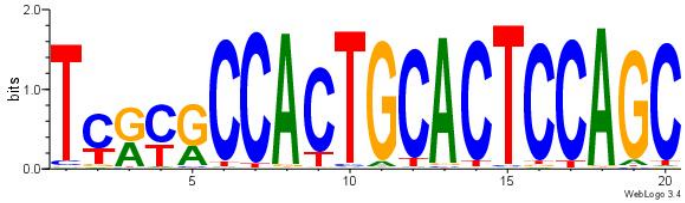

Dataset #:	1

Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0876807

Alignment:

```
CCGTGCGCGAGCCG
ACATGGGCG-----
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

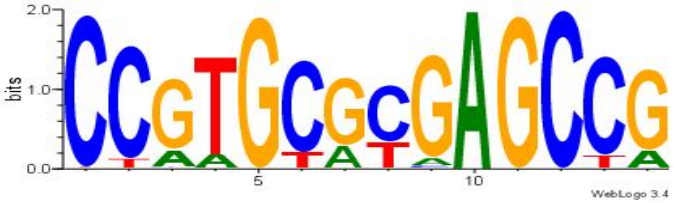

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

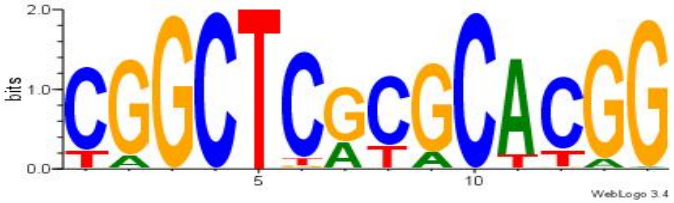

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0884876

Alignment:
CATTTGGGAGCCCATTGA
--------CGCCCATGT-

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

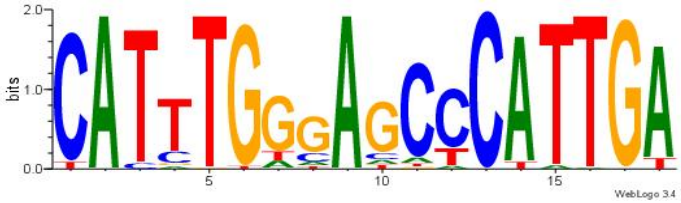

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

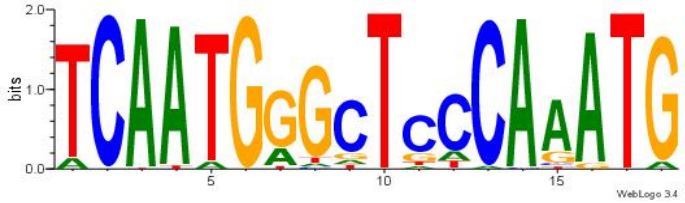

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0898456

Alignment:
AGACAGTGGGYGCAGGHCA
---ACATGGGCG-------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

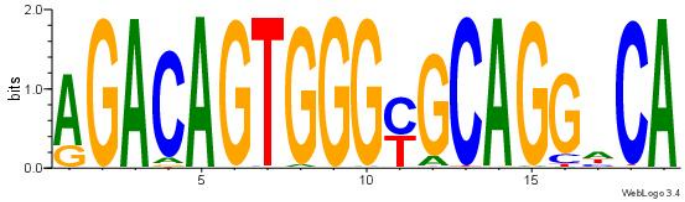

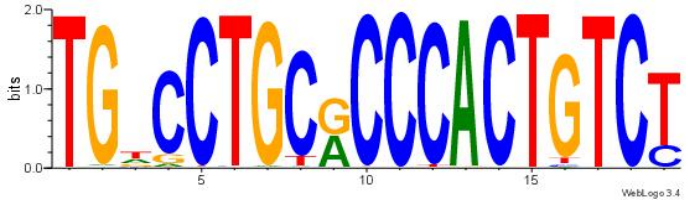

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 9
Similarity score: 0.0899778

Alignment:
AAAMAMMKMATGTTCTCACT
----CGCCCATGT-------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

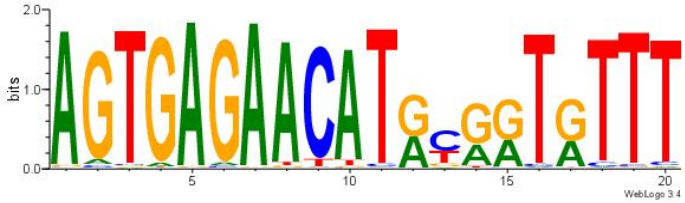

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

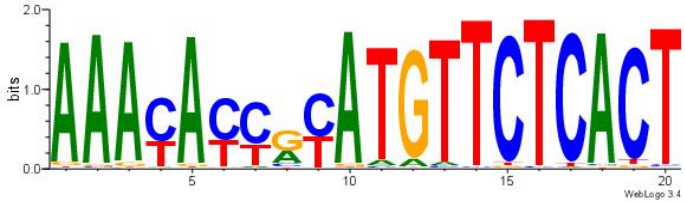

Dataset #: 1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0900008

Alignment:

```
CACTAGGGAGTGCC
-ACATGGGCG----
```

Original motif Consensus sequence: CACTAGGGAGTGCC

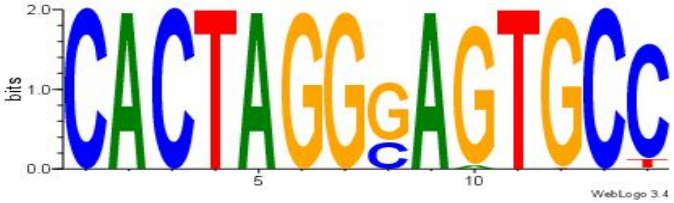

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

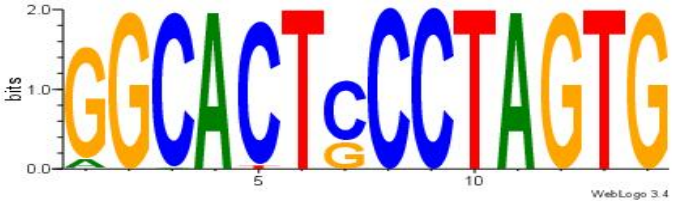

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0908206

Alignment:
AGGAGCGCCTCTGC
-----CGCCCATGT

Original motif Consensus sequence: GCAGAGGCGCTCCT

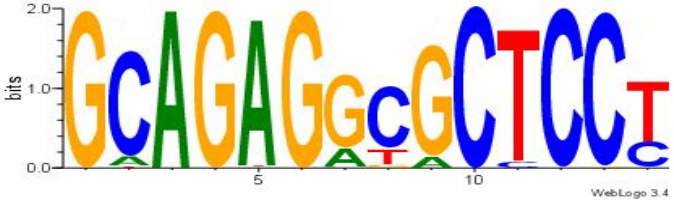

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

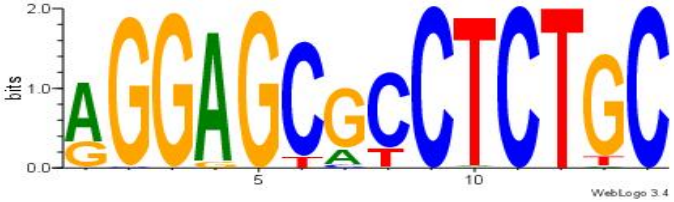

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0915737

Alignment:
ATTGATMKCCAGGGTTGATT
------CGCCCATGT-----

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

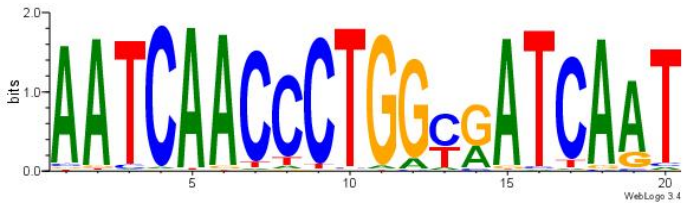

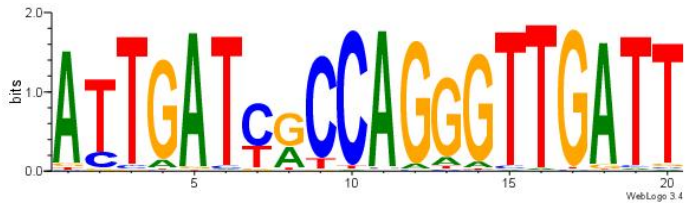

Dataset #: 1 **Motif ID: 9** **Motif name: Motif 9**

Original motif Consensus sequence: CACATGGAGC

Reverse complement motif Consensus sequence: GCTCCATGTG

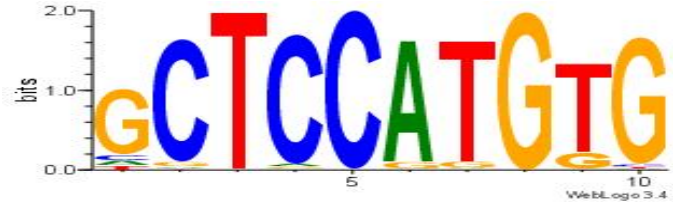

Best Matches for Significant Motif ID 9 (Highest to Lowest)

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0442841

Alignment:

```
GCTTCCATGTG
-GCTCCATGTG
```

Original motif Consensus sequence: CACATGGAAGC

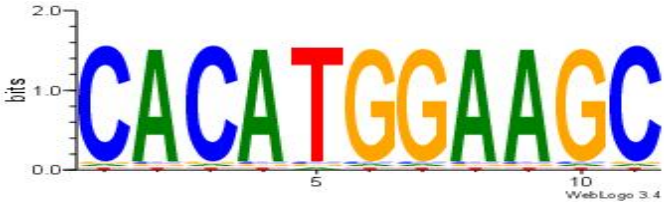

Reverse complement motif Consensus sequence: GCTTCCATGTG

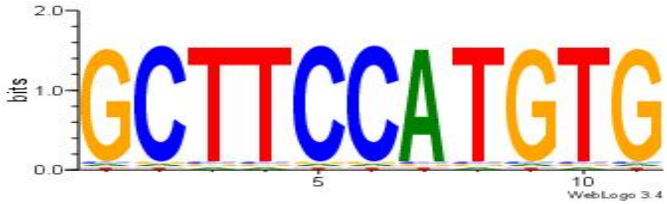

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0461936

Alignment:

```
GACATGGAGTCAAAGG
CACATGGAGC------
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

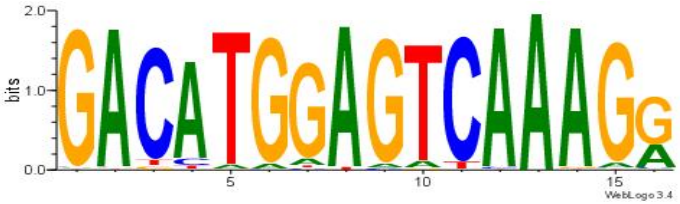

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

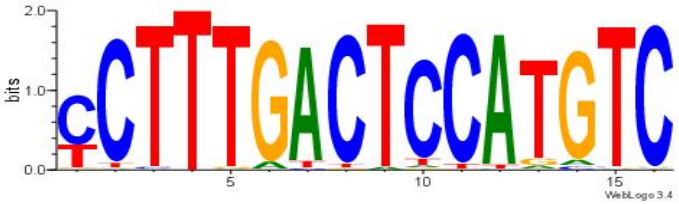

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0487399

Alignment:

```
CMGCTCCGAGTGCGG
--GCTCCATGTG---
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

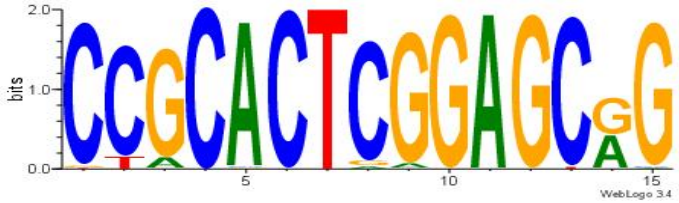

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

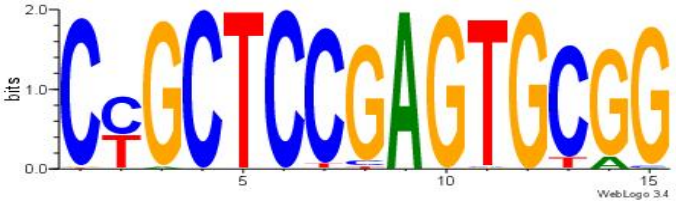

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 10
Similarity score: 0.0488667

Alignment:
TGTCCATGTGTTCTC
GCTCCATGTG-----

Original motif Consensus sequence: GAGAACACATGGACA

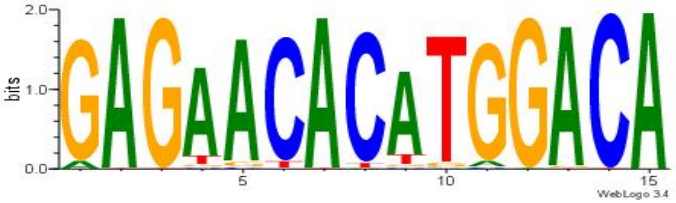

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

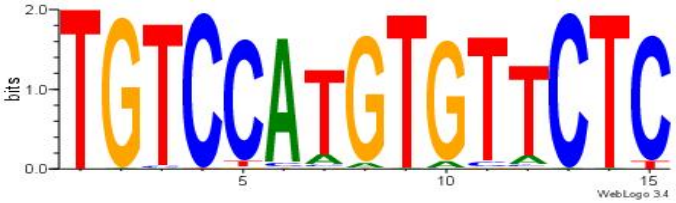

Dataset #: 1
Motif ID: 320
Motif name: Motif 320
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.048999

Alignment:
CATCTGGAGCCCCA
CACATGGAGC----

Original motif Consensus sequence: CATCTGGAGCCCCA

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

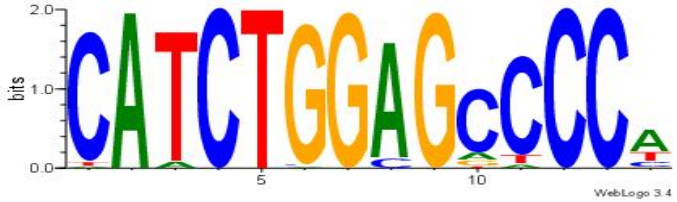

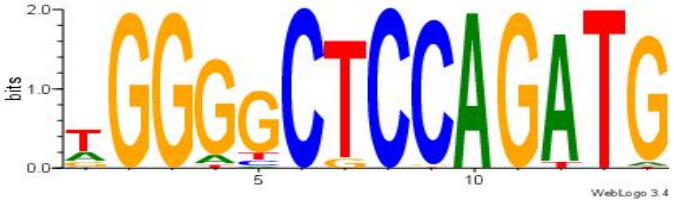

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0497193

Alignment:

```
GCACATGTAYCCYAGAACTT
-CACATGGAGC---------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

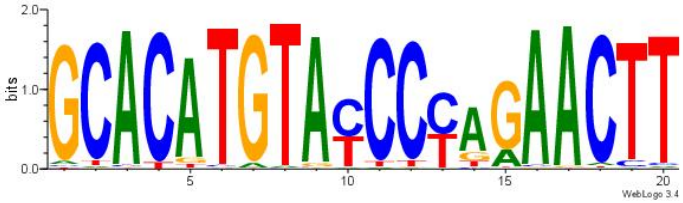

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

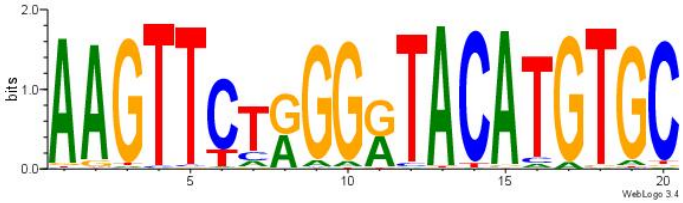

Dataset #: 1

Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0505352

Alignment:

```
GCACATGTCGCT
-CACATGGAGC-
```

Original motif Consensus sequence: AGCGACATGTGC

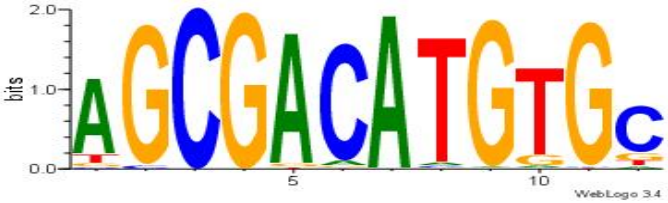

Reverse complement motif Consensus sequence: GCACATGTCGCT

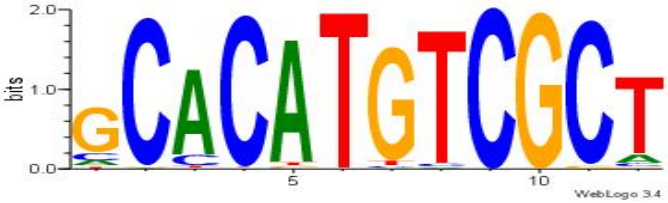

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0559674

Alignment:
AAGGTCCATGTAG
--GCTCCATGTG-

Original motif Consensus sequence: AAGGTCCATGTAG

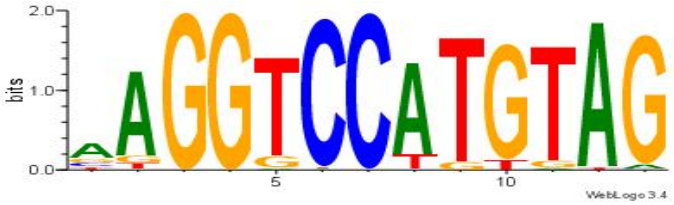

Reverse complement motif Consensus sequence: CTACATGGACCTT

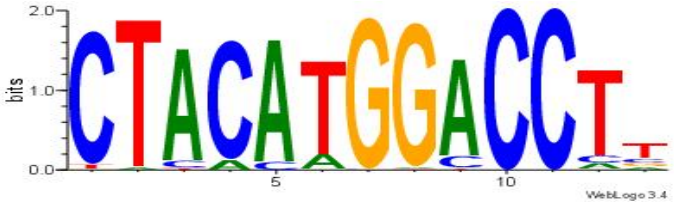

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0583991

Alignment:
GGAGCCCACGGAGG
----CACATGGAGC

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

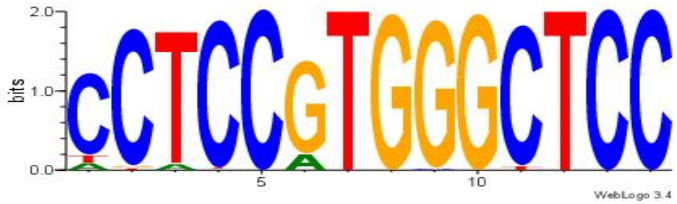

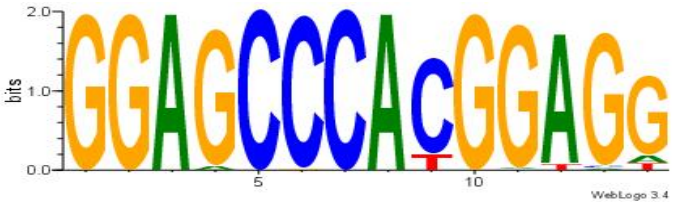

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0636993

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-------GCTCCATGTG---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

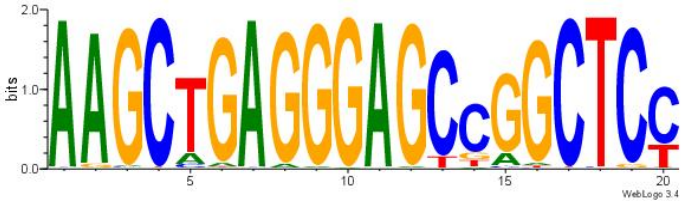

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

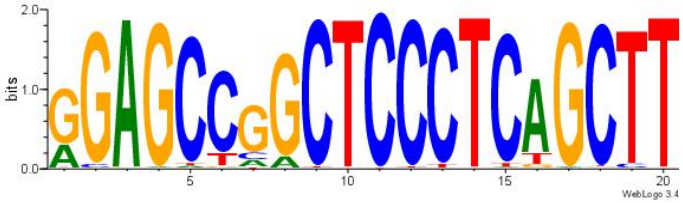

Dataset #: 1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0667698

Alignment:

```
ACGCCCACGGAGTCTC
---CACATGGAGC---
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

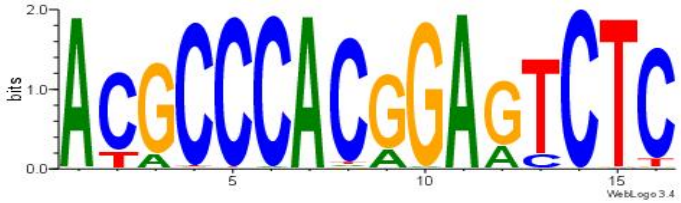

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

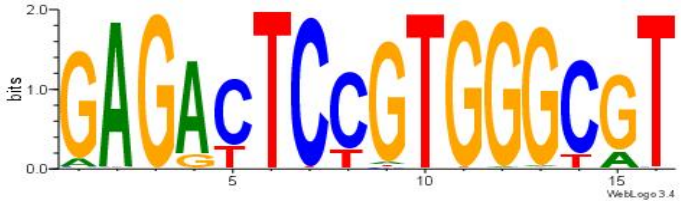

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10

Similarity score: 0.0668187

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCTCCATGTG---------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

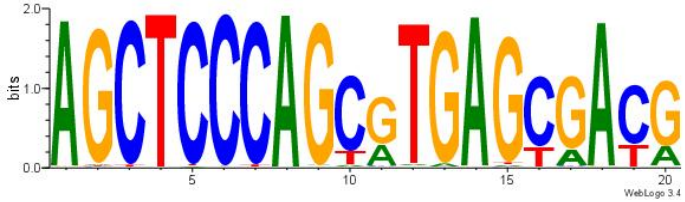

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

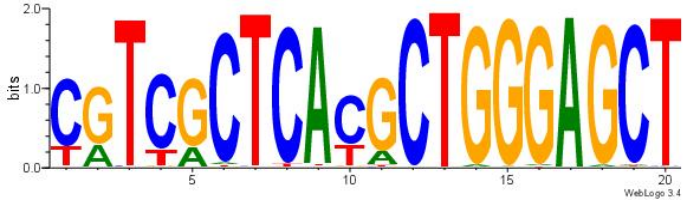

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 10
Similarity score: 0.0672379

Alignment:
GTCCCATCGACCACCCAAG
--CACATGGAGC-------

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

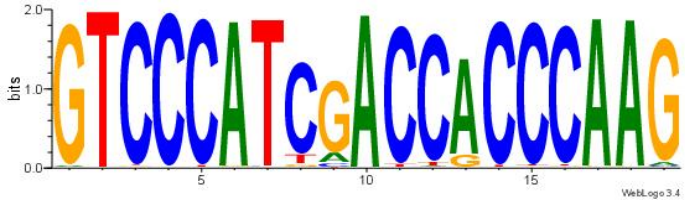

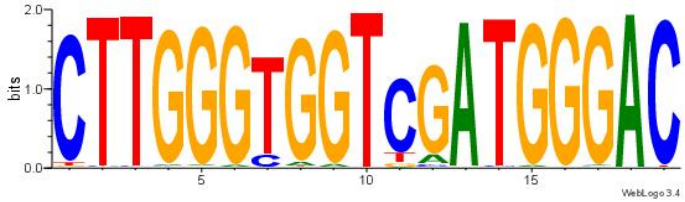

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0689957

Alignment:
GCCTCCTTGAGCTGTGGTGG
-GCTCCATGTG---------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

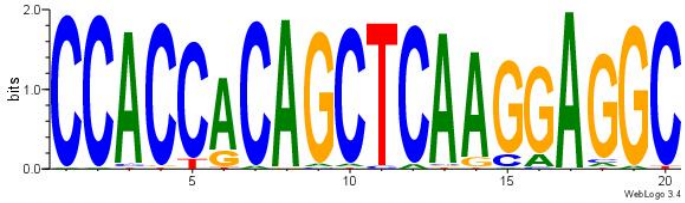

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

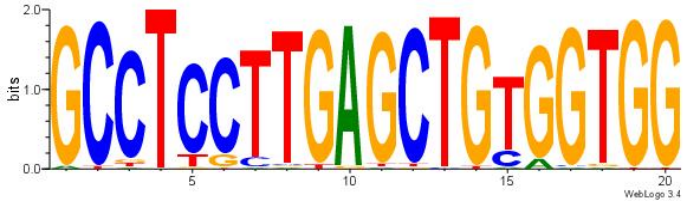

Dataset #: 1

Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0694679

Alignment:

```
GCGCACGGCGCGG
-CACATGGAGC--
```

Original motif Consensus sequence: GCGCACGGCGCGG

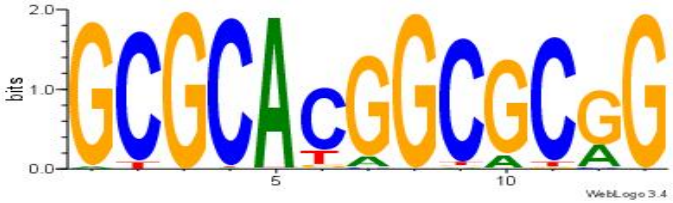

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

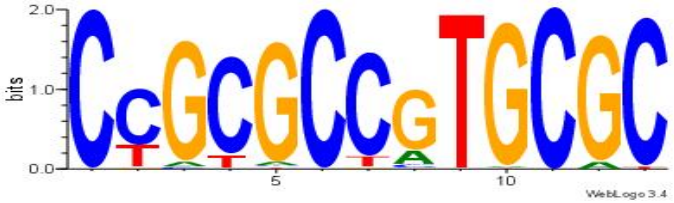

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0702751

Alignment:
TAGATAATAGCTCCAGCTTT
---------GCTCCATGTG-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

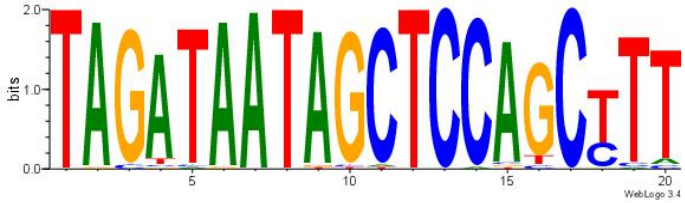

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

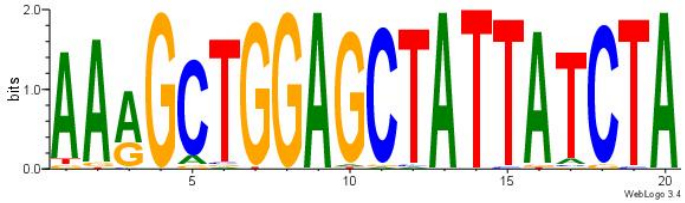

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0709825

Alignment:
CTCCAGKTMCATCCATGTTG
---------GCTCCATGTG-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

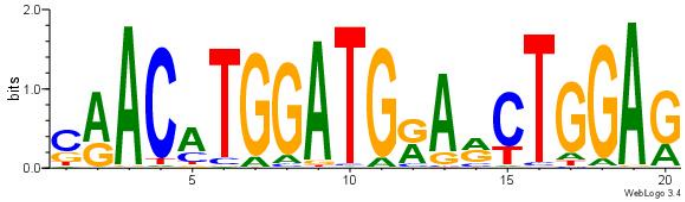

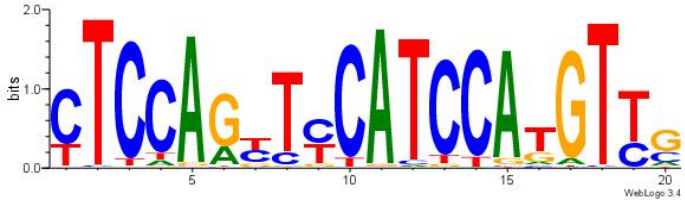

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.071301

Alignment:

```
GACCTGCAGCCCGCCATG
CACATGGAGC--------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

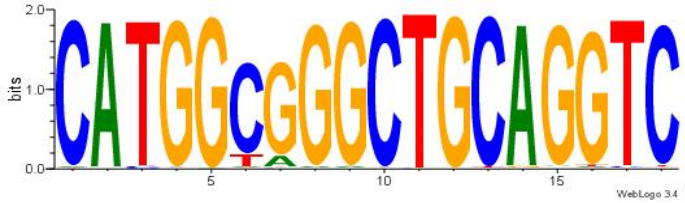

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

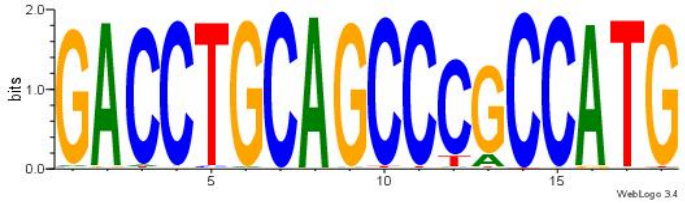

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0714742

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-GCTCCATGTG--------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

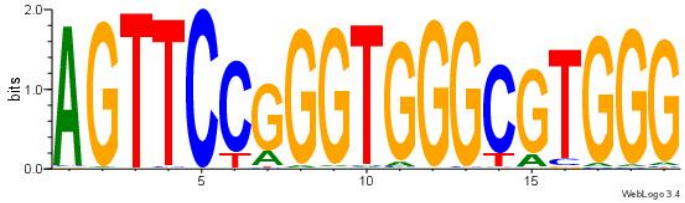

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

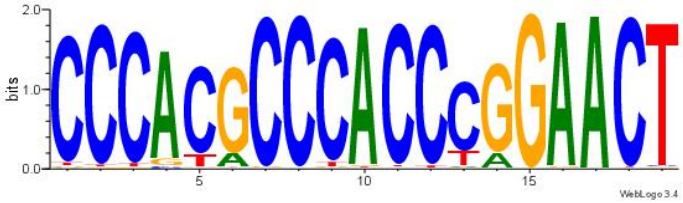

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0717198

Alignment:
TGCTCACACAAAGCCTGT
----CACATGGAGC----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

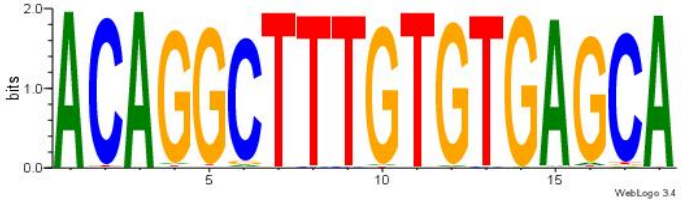

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

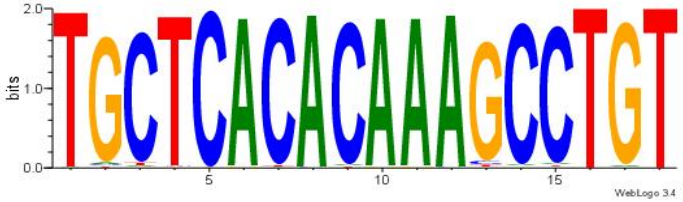

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0728549

Alignment:
GCTCCACCCAGTTCGAGCTT
--------CACATGGAGC--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

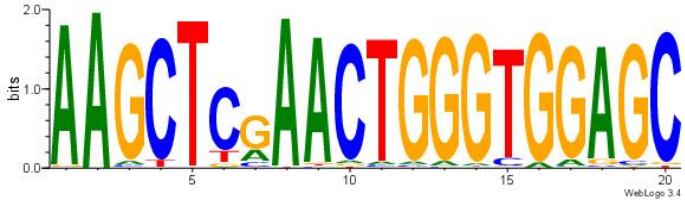

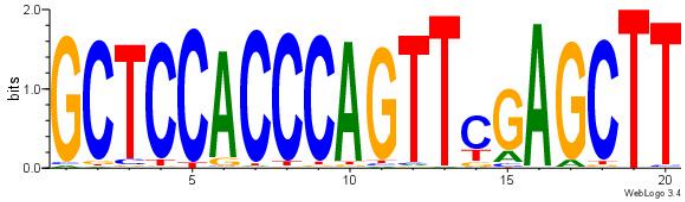

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0732224

Alignment:

```
CGGCGCTGMGCTCGATTTCT
---------GCTCCATGTG-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

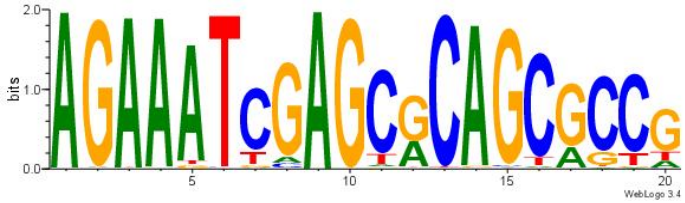

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

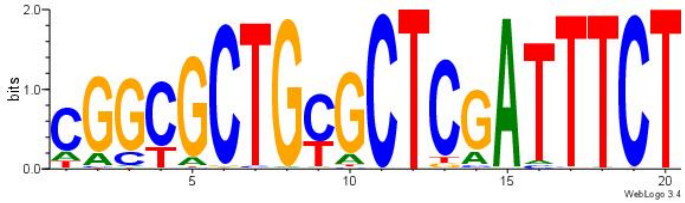

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0748019

Alignment:

```
CACCAGGAGATTATATCCCR
CACATGGAGC----------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

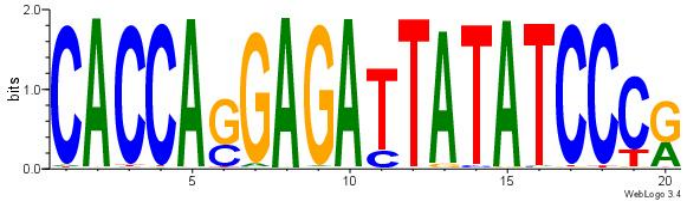

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

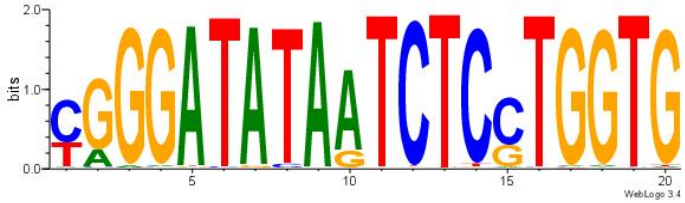

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0756873

Alignment:
GCTTCTGGTGAGGGC
GCTCCATGTG-----

Original motif Consensus sequence: GCCCTCACCAGAAGC

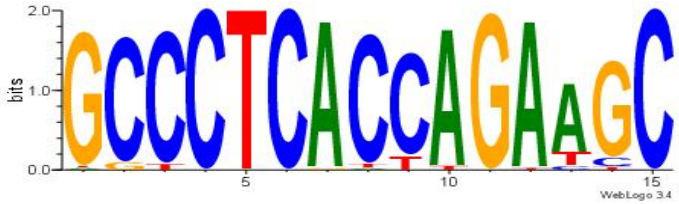

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

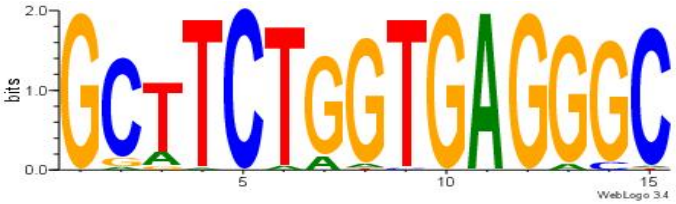

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0766837

Alignment:
CATTTCCAWCTGAGGTAC
--GCTCCATGTG------

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

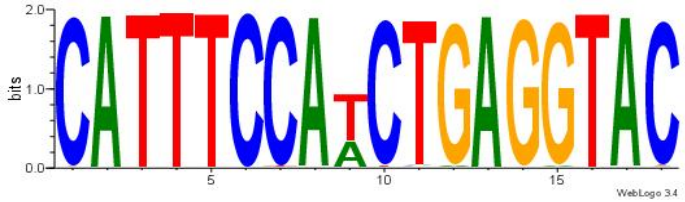

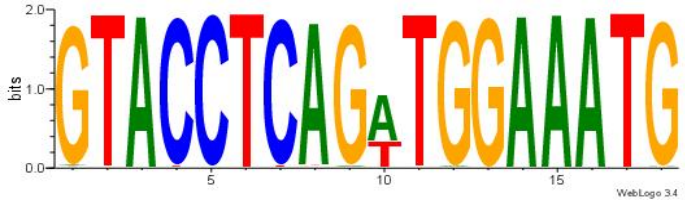

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0774186

Alignment:

```
CGCCCCGTCTGGGAAGTG
-GCTCCATGTG-------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

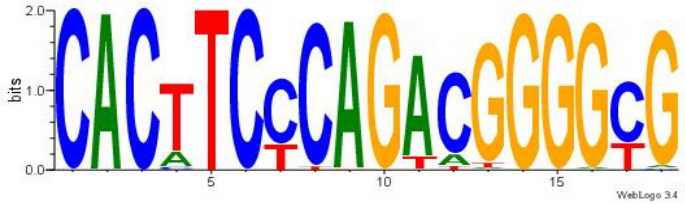

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

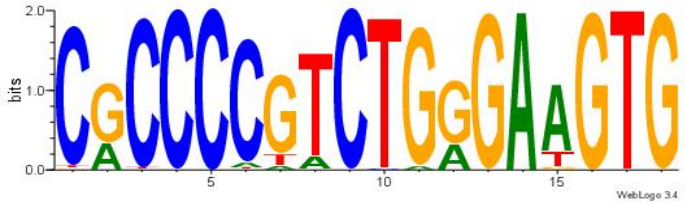

Dataset #:	1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0789719

Alignment:

```
AGCTAGAYACAGAGTGC
-------CACATGGAGC
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

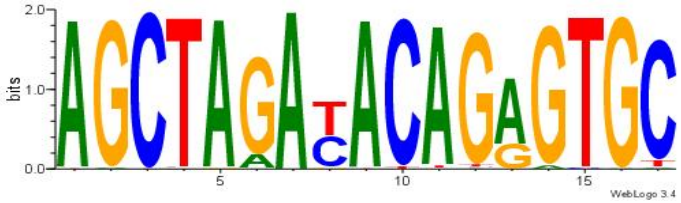

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

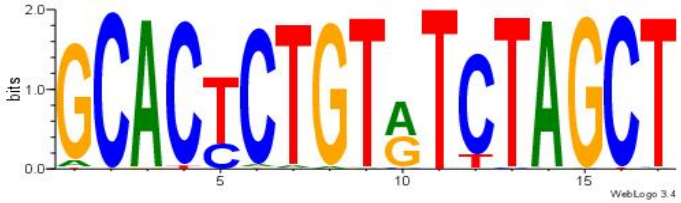

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0807048

Alignment:
KKCACCTTGATCTTGGACTT
--CACATGGAGC--------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

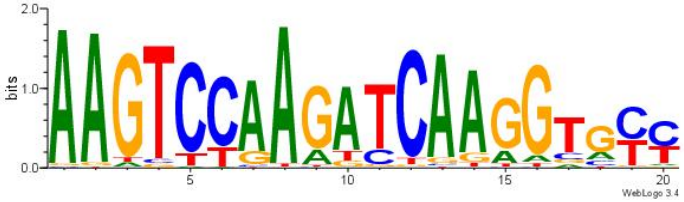

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

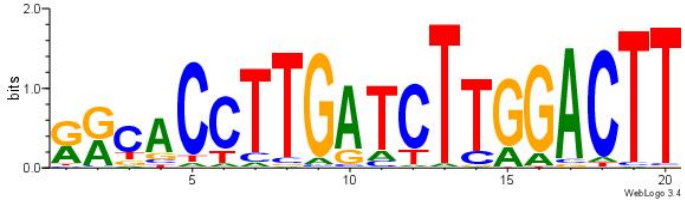

Dataset #: 1
Motif ID: 340
Motif name: Motif 340
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0811095

Alignment:
GACCCAGAGAGC
--CACATGGAGC

Original motif Consensus sequence: GACCCAGAGAGC

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

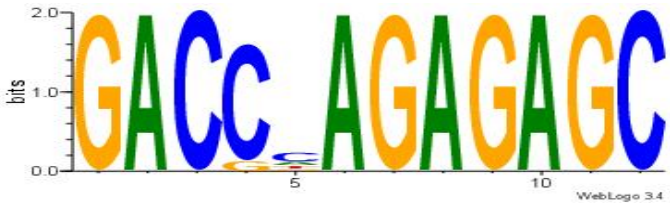

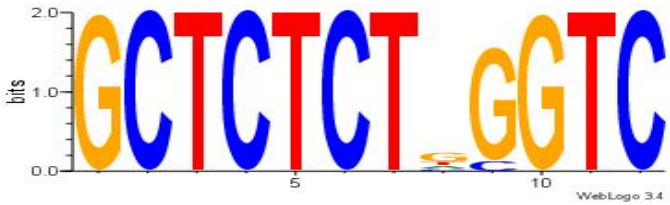

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0819526

Alignment:

```
TGGCTTCACCCAGTGGATCC
---------CACATGGAGC-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

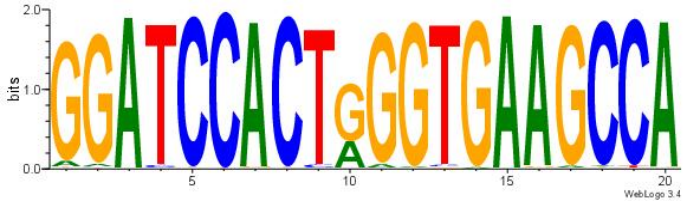

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

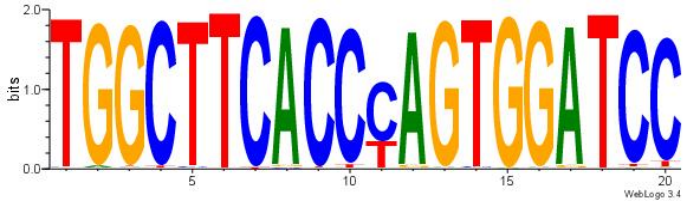

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0836791

Alignment:

```
ACTCAGCCCRCCTGCACCC
--------CACATGGAGC-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

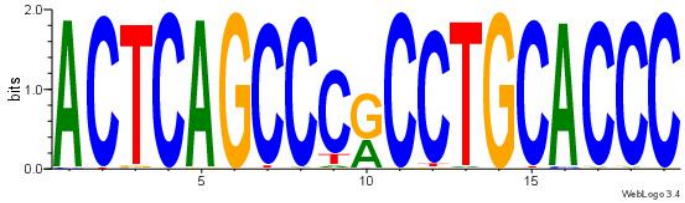

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

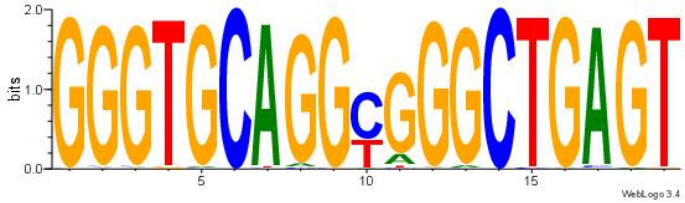

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10

Similarity score: 0.0845325

Alignment:
GGGAGGTGTCTCCCAGTCAG
--------GCTCCATGTG--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

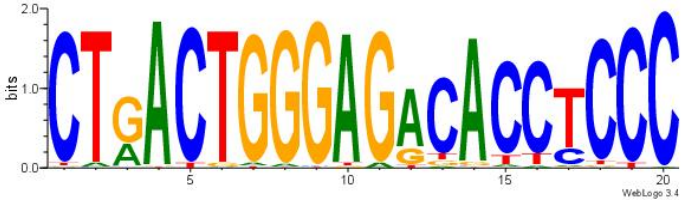

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

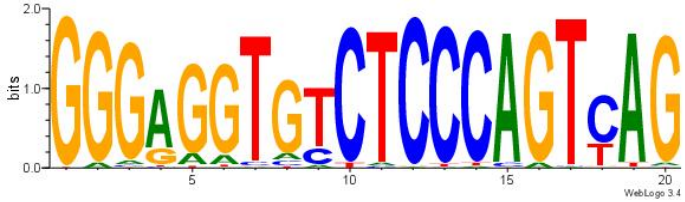

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.085661

Alignment:
CCCATGCAAGTCYRAAATCC
CACATGGAGC----------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

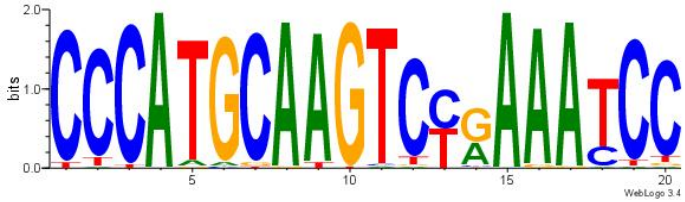

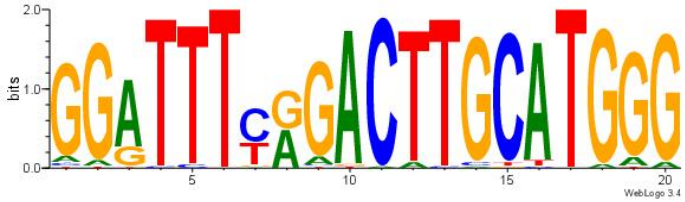

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0865043

Alignment:

```
TGHCCTGCKCCCACTGTCT
------GCTCCATGTG---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

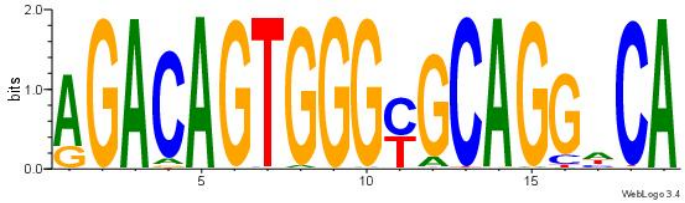

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

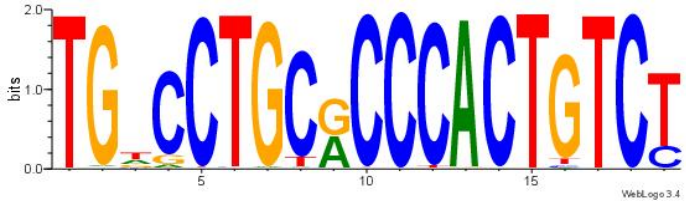

Dataset #:	1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0870815

Alignment:

```
GCTTAGCACCYGGGCCAGC
------CACATGGAGC---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

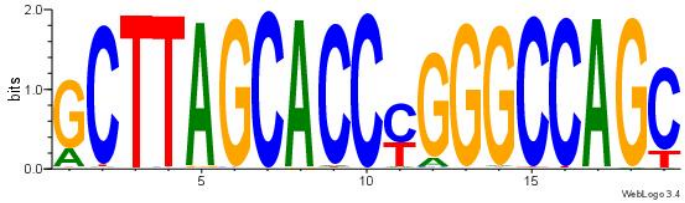

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

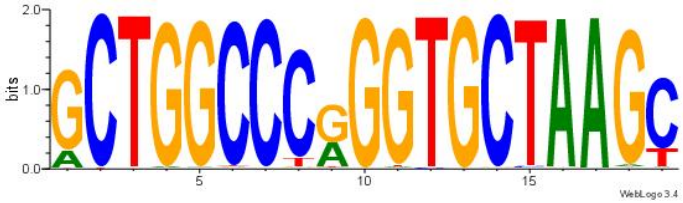

Dataset #:	1
Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0875682

Alignment:
ACCCCGTCTGGGA
GCTCCATGTG---

Original motif Consensus sequence: ACCCCGTCTGGGA

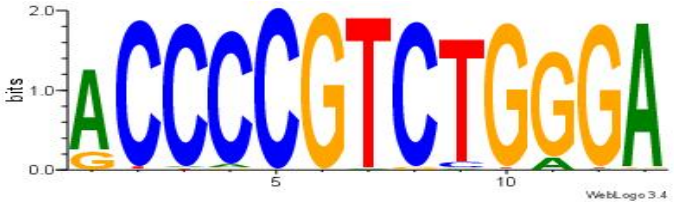

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

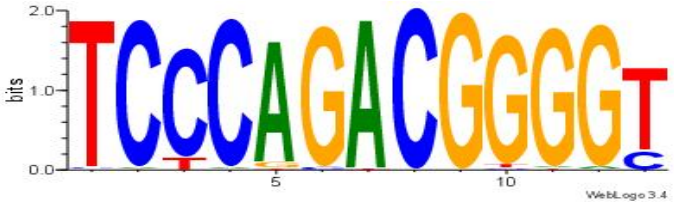

Dataset #: 1
Motif ID: 140
Motif name: Motif 140
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0879983

Alignment:
CTCCATGAAGTC
-CACATGGAGC-

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

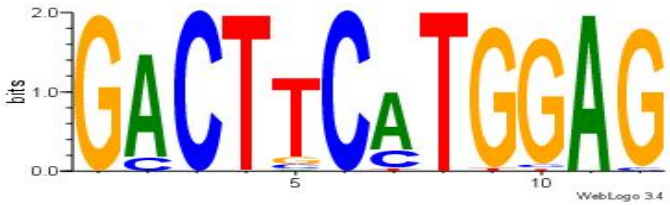

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0880214

Alignment:

```
CTCACAGAGTTAAA
CACATGGAGC----
```

Original motif Consensus sequence: CTCACAGAGTTAAA

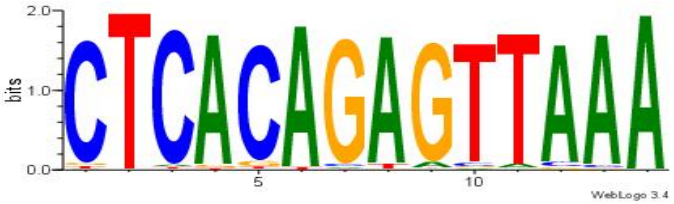

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

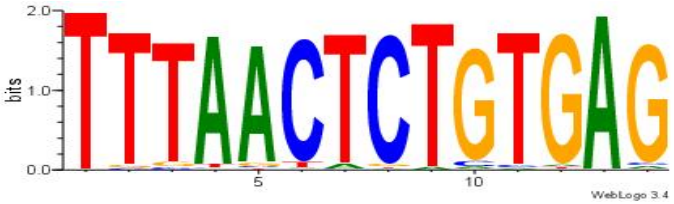

Dataset #:	1
Motif ID:	52

Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0881748

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
------GCTCCATGTG----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

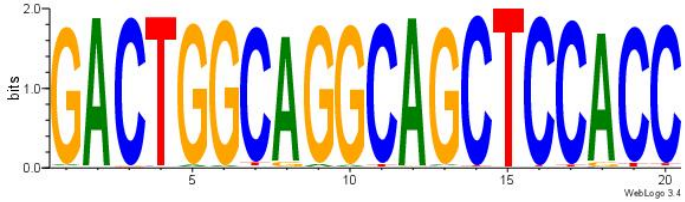

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

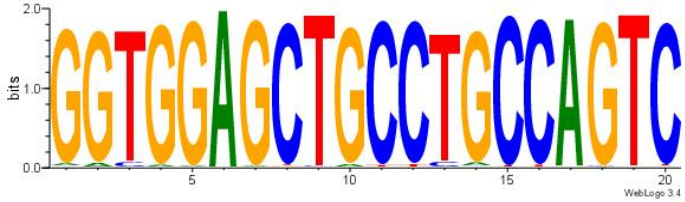

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0882293

Alignment:
ACAGAGTGAGACTCT
-CACATGGAGC----

Original motif Consensus sequence: AGAGTCTCACTCTGT

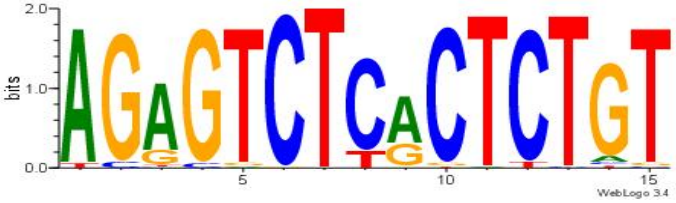

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

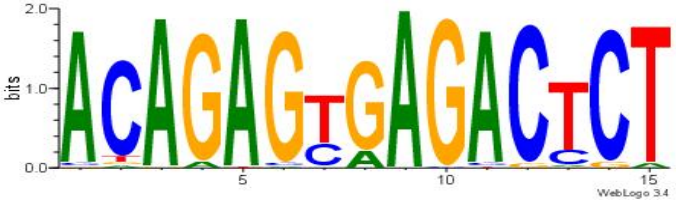

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0882771

Alignment:
CGGCTTCATTCTTGAAGTC
--GCTCCATGTG-------

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

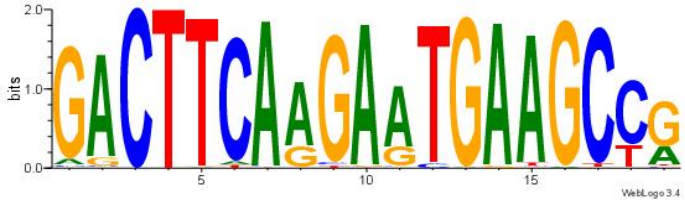

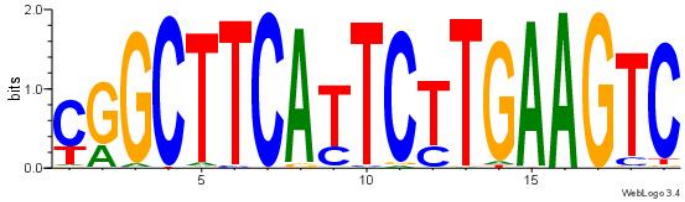

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0882802

Alignment:

```
GCTCACTGCAASCTC
-----GCTCCATGTG
```

Original motif Consensus sequence: GCTCACTGCAASCTC

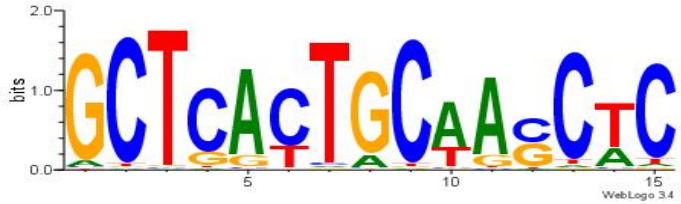

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

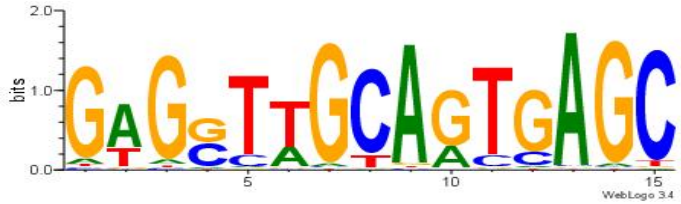

Dataset #:	1
Motif ID:	195

Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0884597

Alignment:

```
TAAAAGACTACAWATTGGGT
----------CACATGGAGC
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

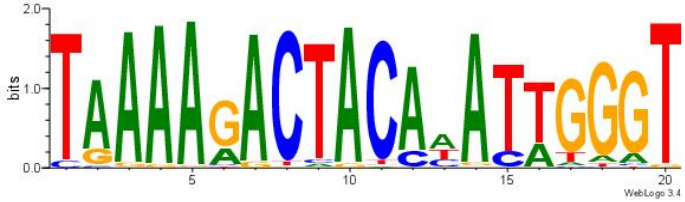

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

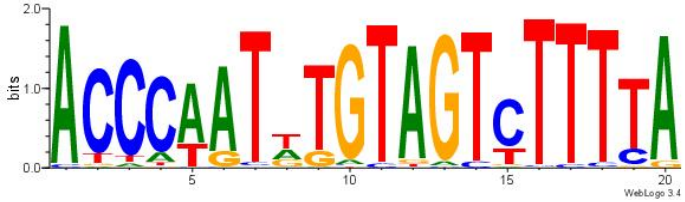

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0899261

Alignment:
AATGACCAATTGAGAGC
-----CACATGGAGC--

Original motif Consensus sequence: AATGACCAATTGAGAGC

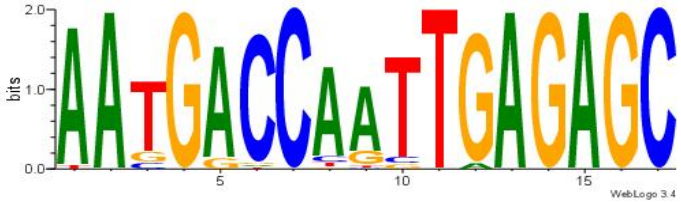

Reverse complement motif Consensus sequence:
GCTCTCAATTGGTCATT

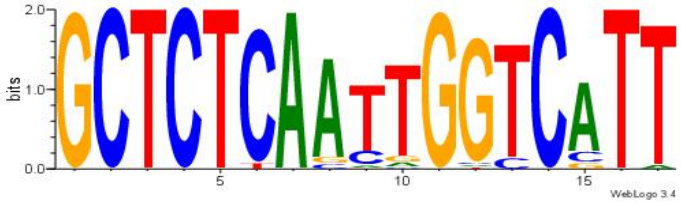

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0902917

Alignment:
AGGTTTGTTACATAGGTAWA
------GCTCCATGTG----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

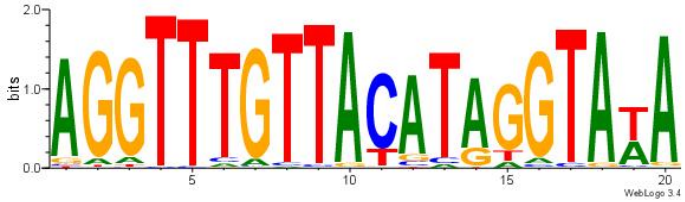

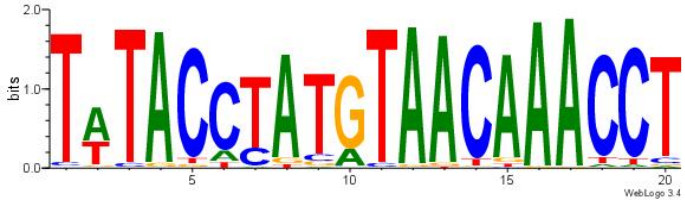

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0903925

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----CACATGGAGC-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

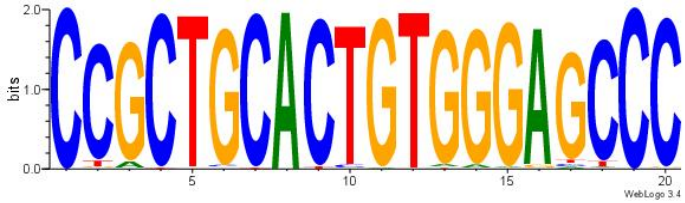

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

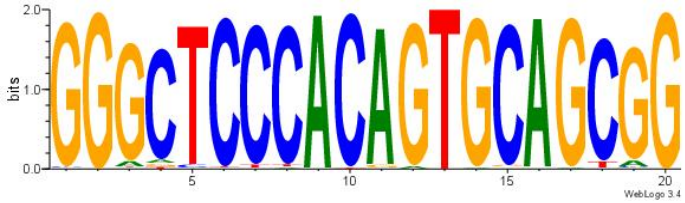

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0904246

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--------CACATGGAGC--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

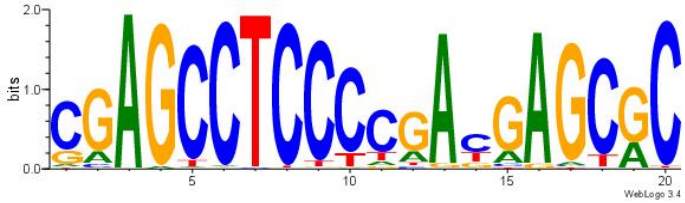

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

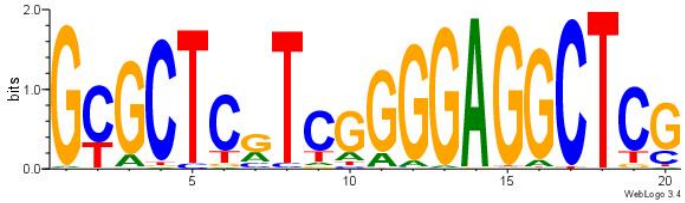

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0904275

Alignment:
CAAGATGGCGGC
-CACATGGAGC-

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

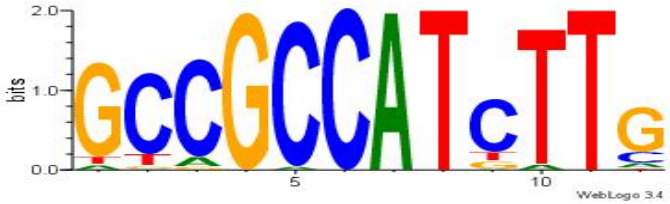

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0916826

Alignment:
AGATGCCAGCCAGAGCTCT
------CACATGGAGC---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

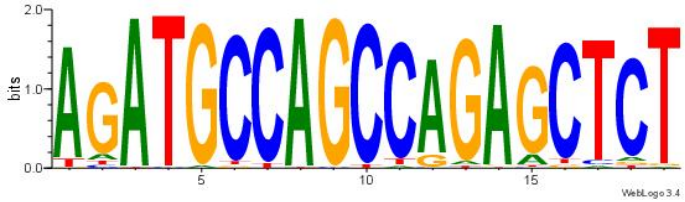

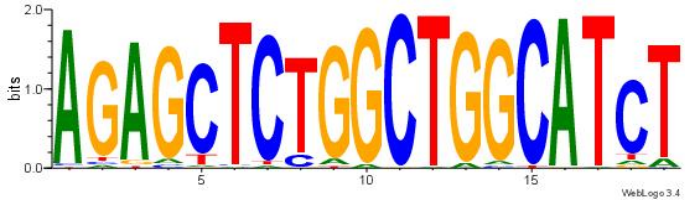

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0918971

Alignment:

```
AAGACCTTCCAGTGGGACAA
----GCTCCATGTG------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

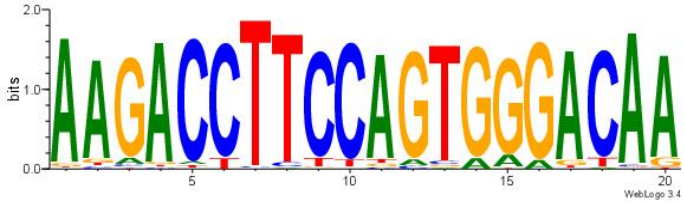

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

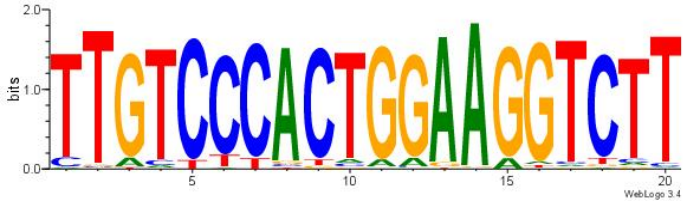

Dataset #: 1 Motif ID: 207 Motif name: Motif 207

Original motif Consensus sequence: GACCTTGA

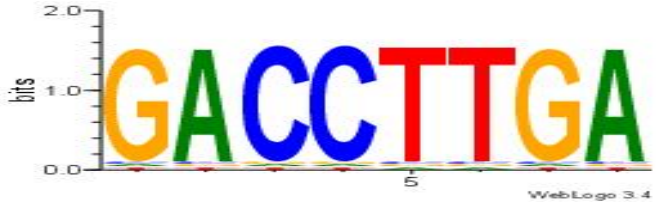

Reverse complement motif Consensus sequence: TCAAGGTC

Best Matches for Significant Motif ID 207 (Highest to Lowest)

Dataset #:	1
Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0145765

Alignment:

```
TGGACCTTGAG
-GACCTTGA--
```

Original motif Consensus sequence: CTCAAGGTCCA

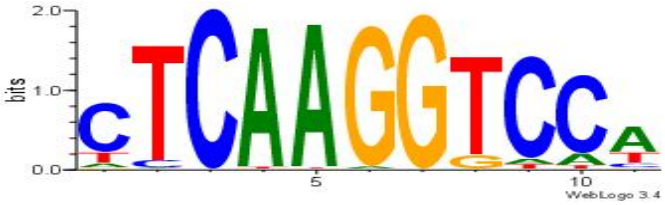

Reverse complement motif Consensus sequence: TGGACCTTGAG

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0364604

Alignment:

```
TGTGACCTTGG
---GACCTTGA
```

Original motif Consensus sequence: CCAAGGTCACA

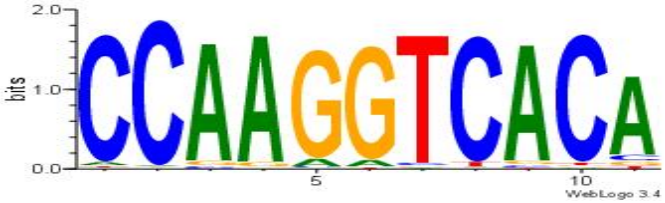

Reverse complement motif Consensus sequence: TGTGACCTTGG

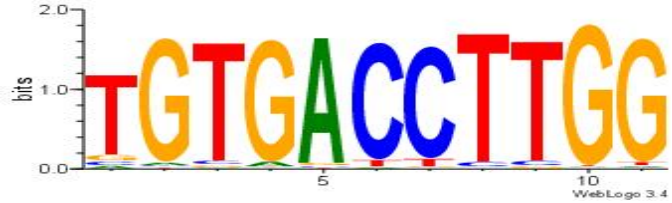

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8

Similarity score: 0.0423228

Alignment:
GCTCTGAAGGTCC
----TCAAGGTC-

Original motif Consensus sequence: GCTCTGAAGGTCC

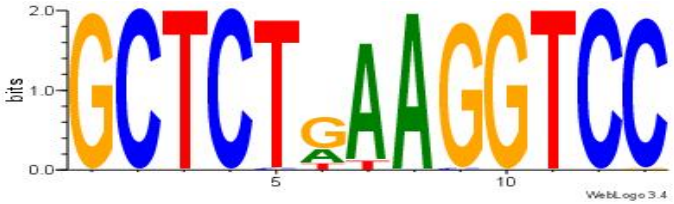

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

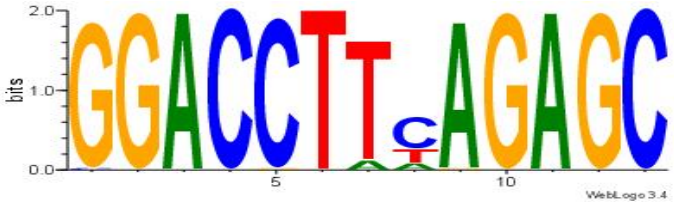

Dataset #: 1
Motif ID: 302
Motif name: Motif 302
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0468349

Alignment:
GCTCTCAGGGTC
----TCAAGGTC

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

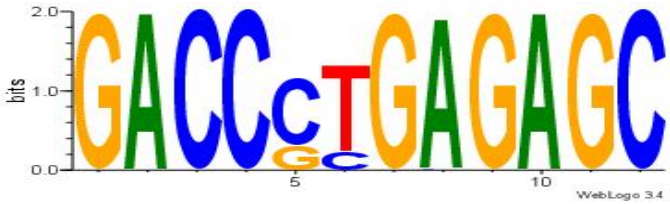

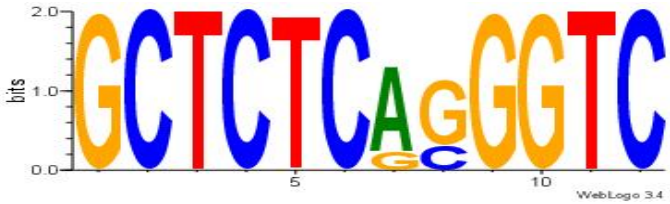

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0507846

Alignment:

```
KACATTGATTTTGTATC
GACCTTGA---------
```

Original motif Consensus sequence: GATACAAAATCAATGTR

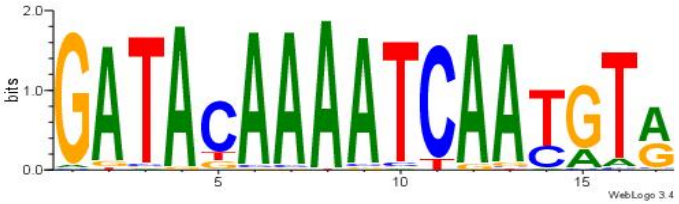

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

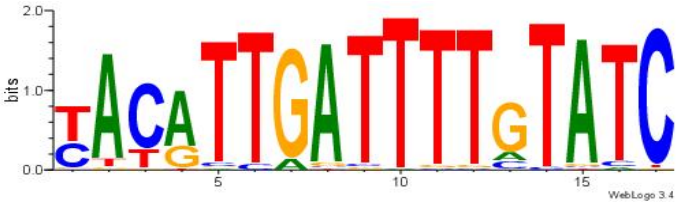

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.052151

Alignment:

```
AAGTCCAAGATCAAGGTGYY
--TCAAGGTC----------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

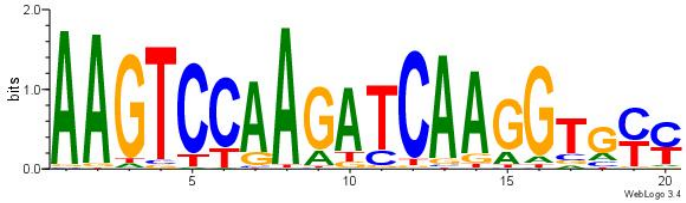

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

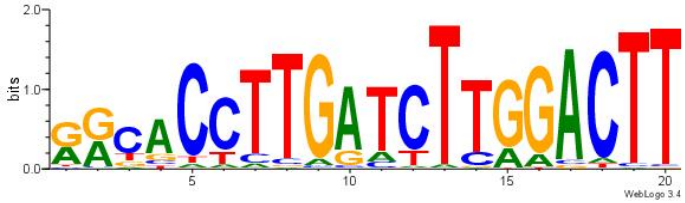

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8

Similarity score: 0.0568181

Alignment:
CTGGTCAAGGAAA
----TCAAGGTC-

Original motif Consensus sequence: CTGGTCAAGGAAA

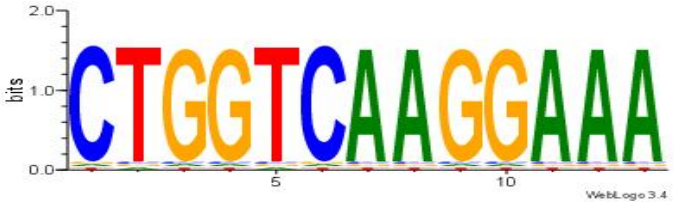

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

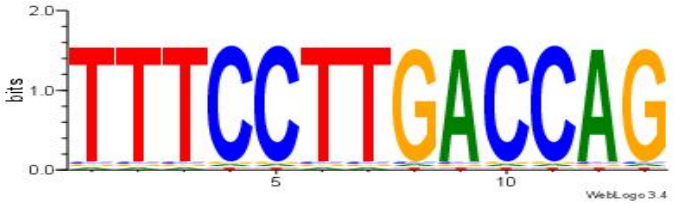

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 11
Number of overlap: 8
Similarity score: 0.0644423

Alignment:
TTGTCCCACTGGAAGGTCTT
----------TCAAGGTC--

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

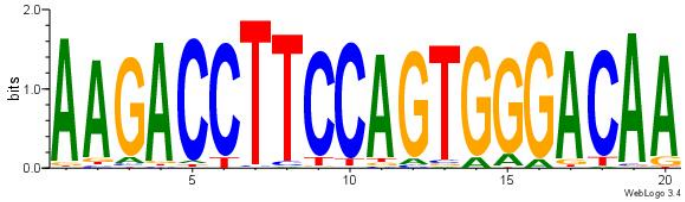

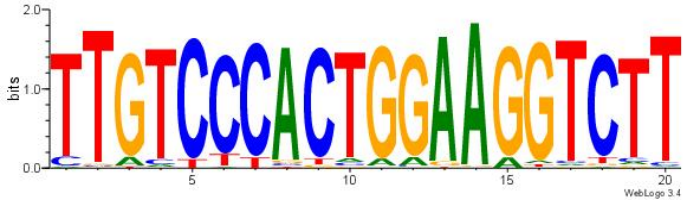

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0644975

Alignment:

```
ATGGACTTGAGA
--GACCTTGA--
```

Original motif Consensus sequence: ATGGACTTGAGA

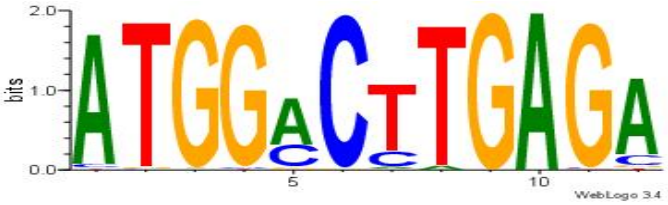

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

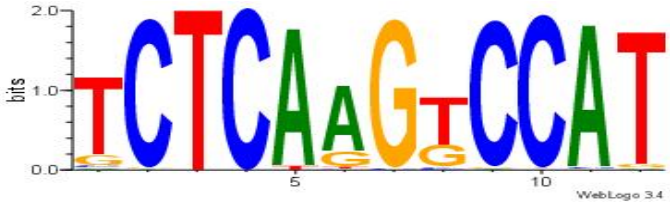

Dataset #:	1
Motif ID:	326

Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.064921

Alignment:

```
GACATGGAGTCAAAGG
GACCTTGA--------
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

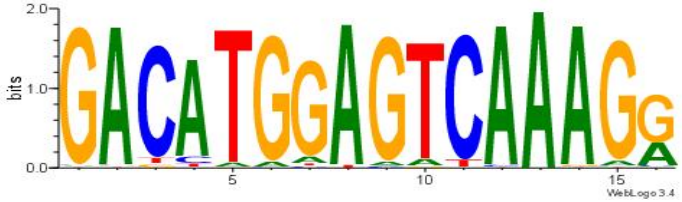

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

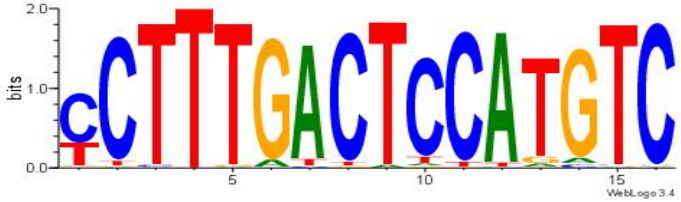

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0650423

Alignment:
CTCCTGACCTCGTGATC
----GACCTTGA-----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

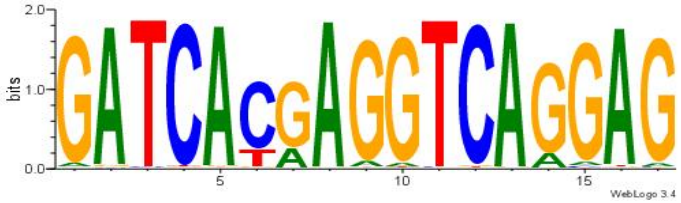

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

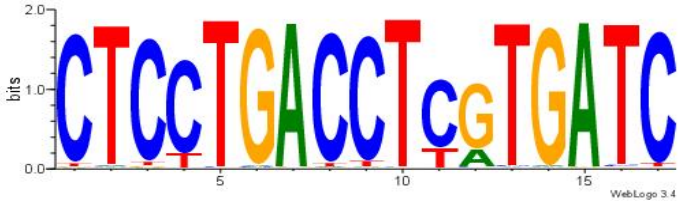

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0651115

Alignment:
AGGTCCTTCAGGAGGTATTC
--GACCTTGA----------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

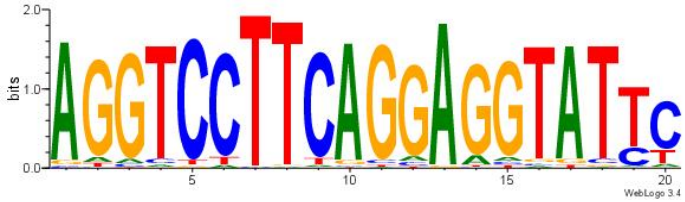

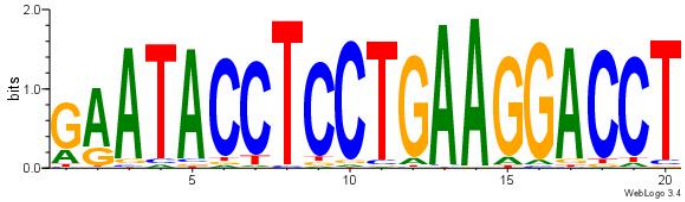

Dataset #:	1
Motif ID:	340
Motif name:	Motif 340
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0656741

Alignment:

```
GCTCTCTGGGTC
----TCAAGGTC
```

Original motif Consensus sequence: GACCCAGAGAGC

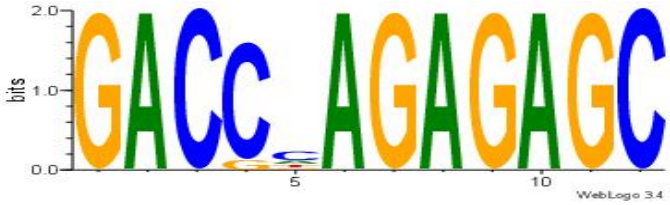

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

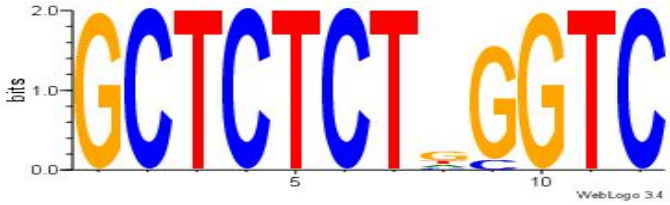

Dataset #:	1
Motif ID:	350

Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0657663

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---------GACCTTGA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

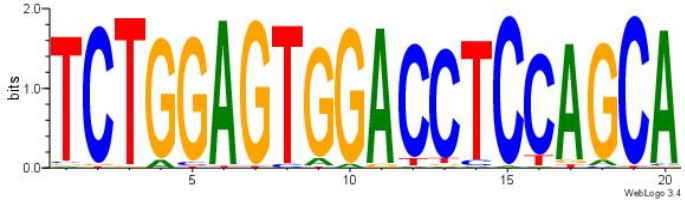

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

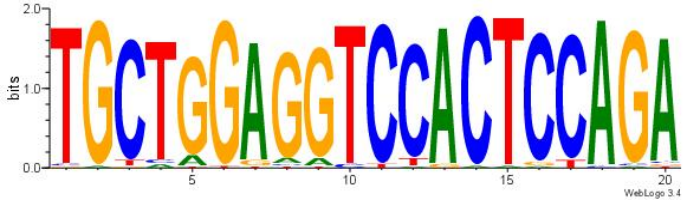

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0666908

Alignment:
GCTGTGTGACCTTGGGCAAG
-------GACCTTGA-----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

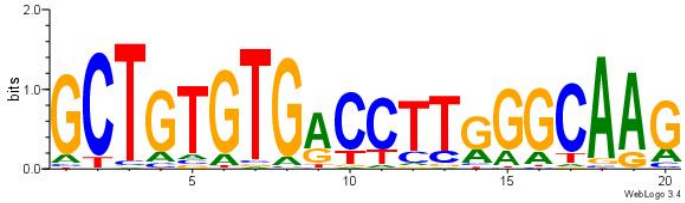

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

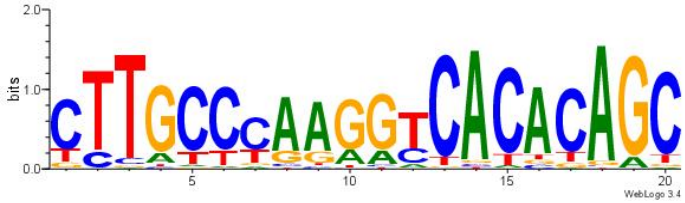

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.066923

Alignment:
ATATTGATGATCCTGACC
--------GACCTTGA--

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence:
GGTCAGGATCATCAATAT

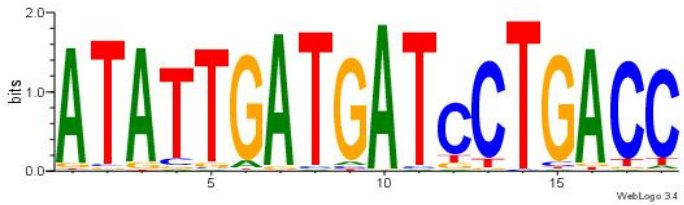

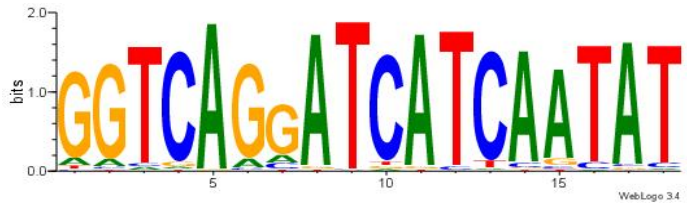

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0681858

Alignment:

```
AAATCTTAAAGCTC
------TCAAGGTC
```

Original motif Consensus sequence: AAATCTTAAAGCTC

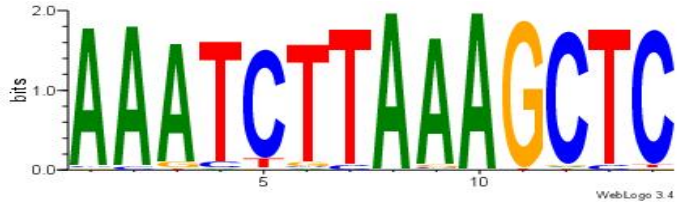

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

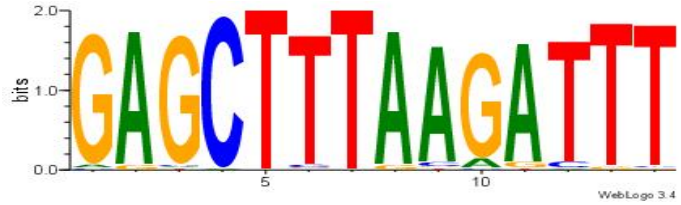

Dataset #:	1
Motif ID:	182

Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0687226

Alignment:

```
GACCAMGAACCCA
GACCTTGA-----
```

Original motif Consensus sequence: GACCAMGAACCCA

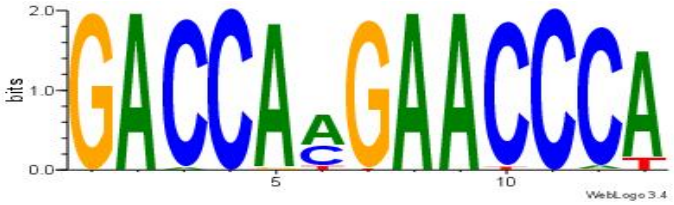

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

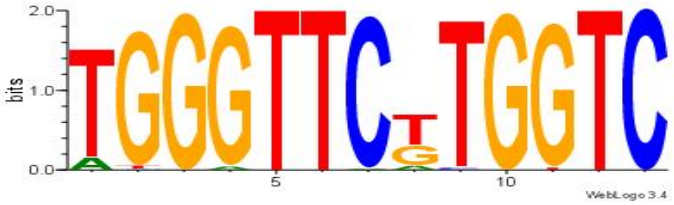

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0690051

Alignment:
CATGGCGGGCTGCAGGTC
TCAAGGTC----------

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

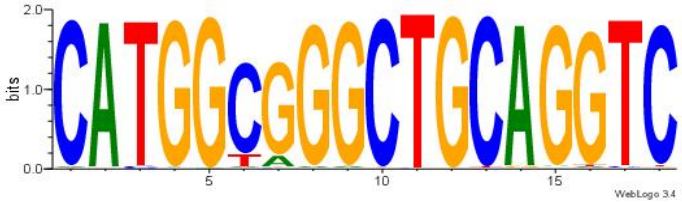

Reverse complement motif Consensus sequence:
GACCTGCAGCCCGCCATG

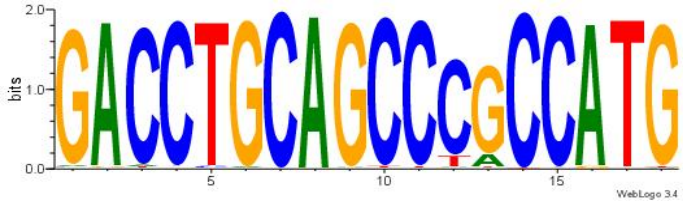

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0703281

Alignment:
AGGAGGAAGTCAATTTC
---------TCAAGGTC

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence:
GAAATTGACTTCCTCCT

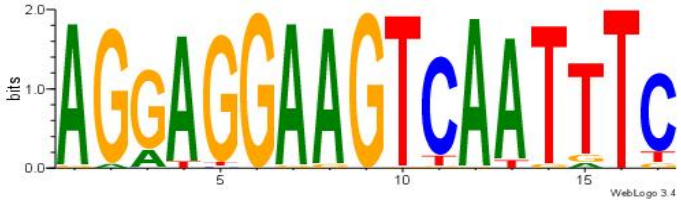

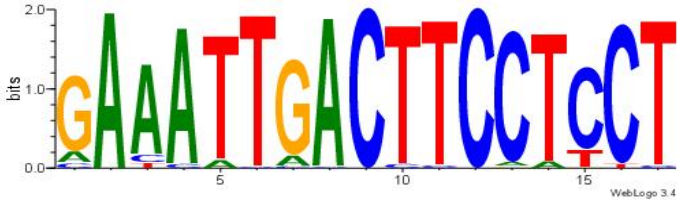

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0706603

Alignment:

```
CCACCACAGCTCAAGGAGGC
----------TCAAGGTC--
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

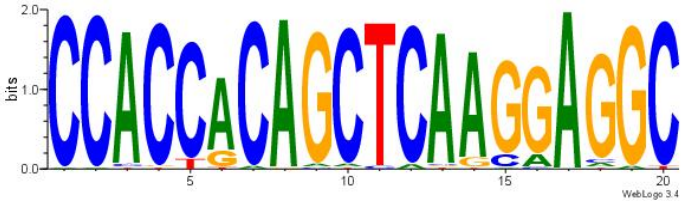

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

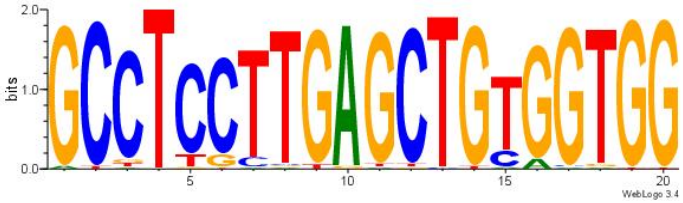

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0713731

Alignment:

```
CTCCAGKTMCATCCATGTTG
-TCAAGGTC-----------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

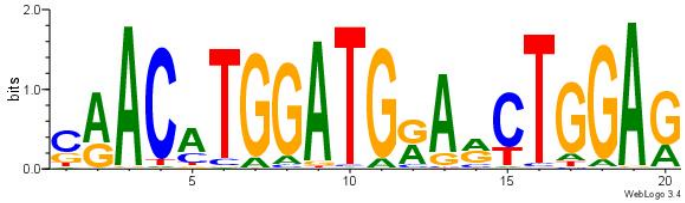

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

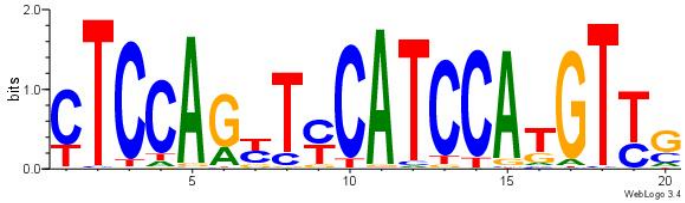

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8

Similarity score: 0.0726314

Alignment:
AGGGATCTAGGTTGCR
-----TCAAGGTC---

Original motif Consensus sequence: AGGGATCTAGGTTGCR

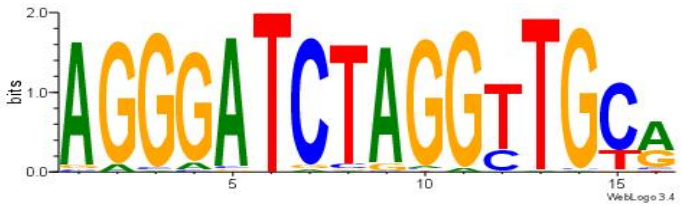

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

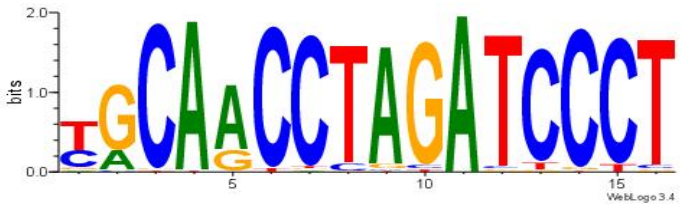

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0774699

Alignment:
CCCAAATCTCATSTTGAAT
---------GACCTTGA--

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

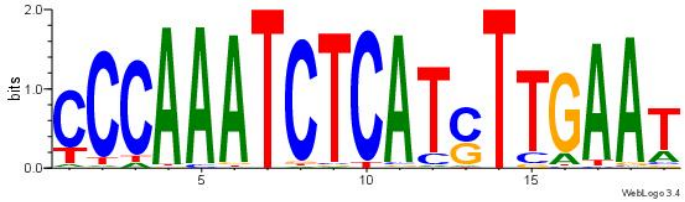

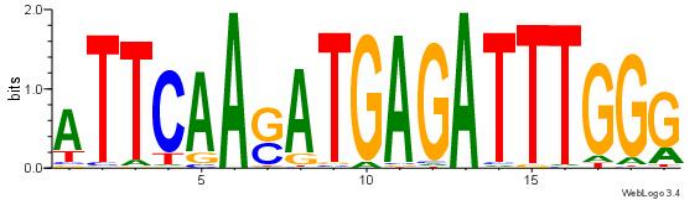

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0786934

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-----------TCAAGGTC-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

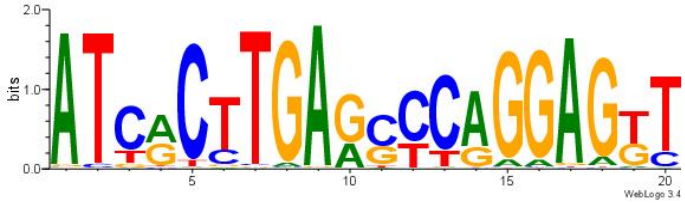

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

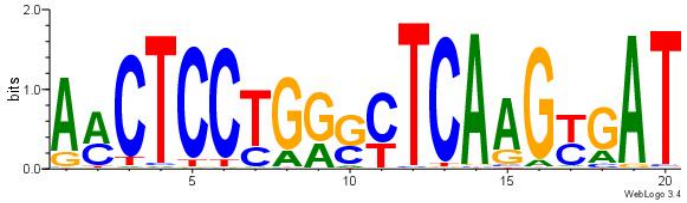

Dataset #:	1

Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0807412

Alignment:

```
AAGGGACATTKGAG
----GACCTTGA--
```

Original motif Consensus sequence: AAGGGACATTKGAG

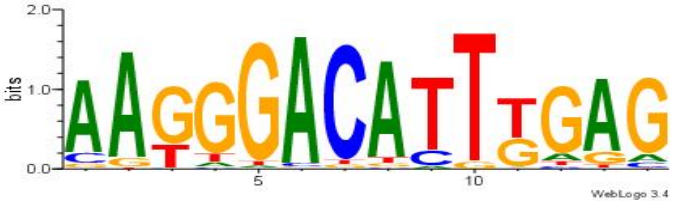

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

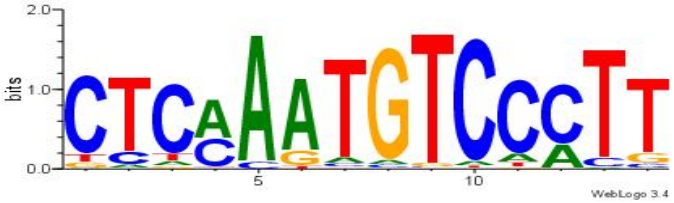

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0832022

Alignment:
CTAGACATAAAGGTTCTCCA
-----TCAAGGTC-------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

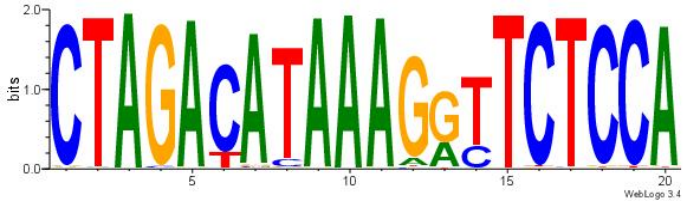

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

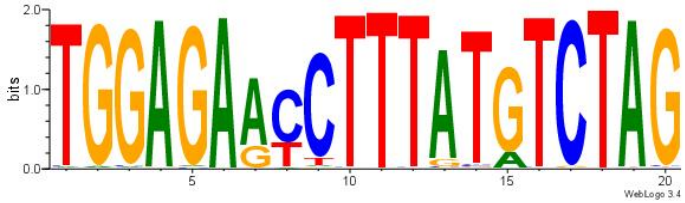

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0836852

Alignment:
GCTGGCCCGCAAGCGCCGCG
----TCAAGGTC--------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

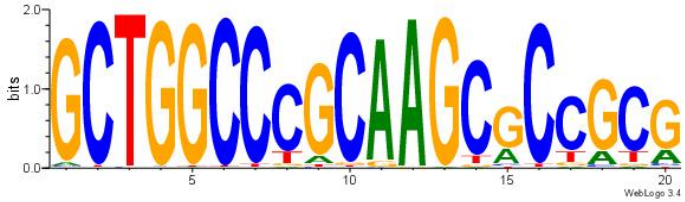

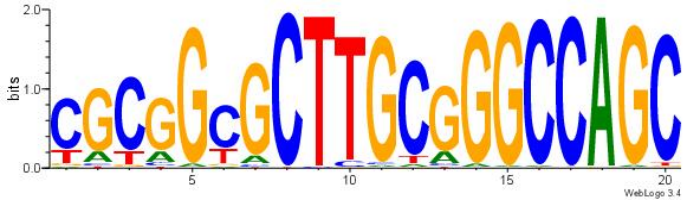

Dataset #:	1
Motif ID:	352
Motif name:	Motif 352
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
CATCTTCA
GACCTTGA
```

Original motif Consensus sequence: CATCTTCA

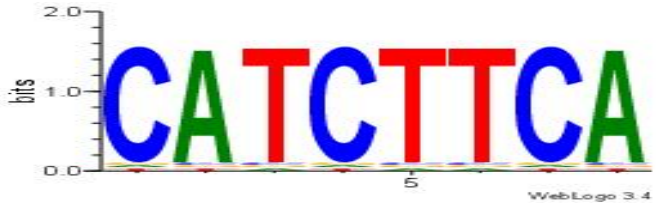

Reverse complement motif Consensus sequence: TGAAGATG

Dataset #:	1
Motif ID:	238

Motif name:	Motif 238
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
CGCCCATGT
-GACCTTGA
```

Original motif Consensus sequence: ACATGGGCG

Reverse complement motif Consensus sequence: CGCCCATGT

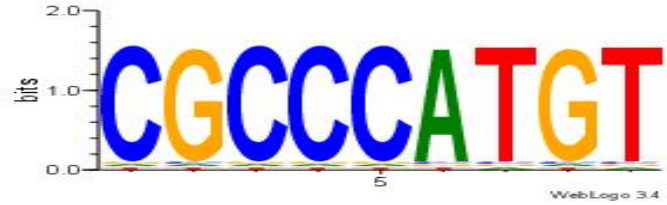

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
TACAGGTGCGT
TCAAGGTC---

Original motif Consensus sequence: ACGCACCTGTA

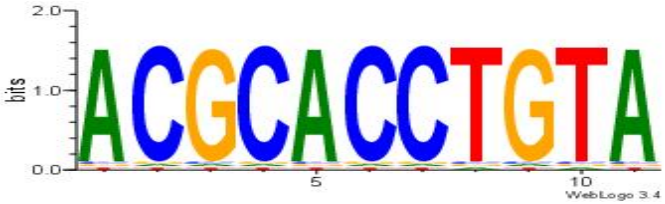

Reverse complement motif Consensus sequence: TACAGGTGCGT

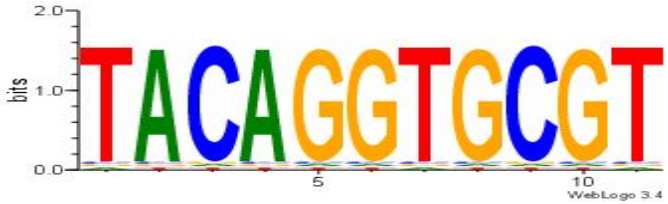

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
CACATGGAAGC
GACCTTGA---

Original motif Consensus sequence: CACATGGAAGC

Reverse complement motif Consensus sequence: GCTTCCATGTG

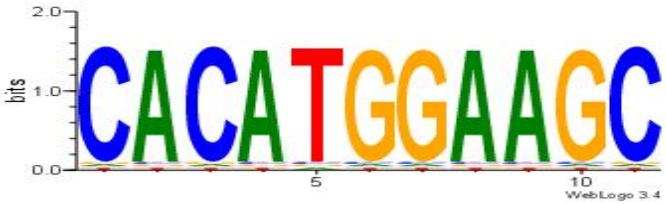

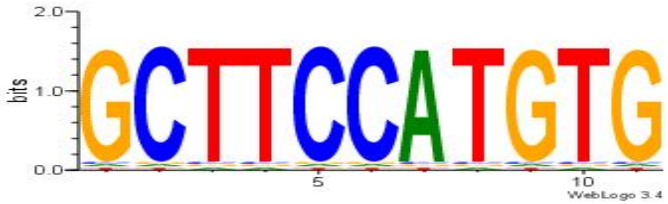

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0869899

Alignment:

```
GGATGGTGAGGGC
-GACCTTGA----
```

Original motif Consensus sequence: GCCCTCACCATCC

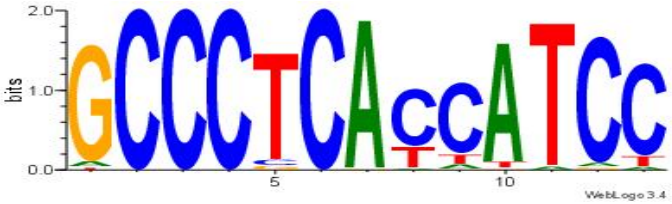

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

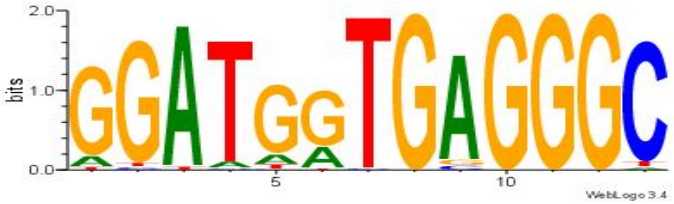

Dataset #:	1
Motif ID:	322

Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0882551

Alignment:

```
GCAWSTGCAAAGGCCCT
------TCAAGGTC---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

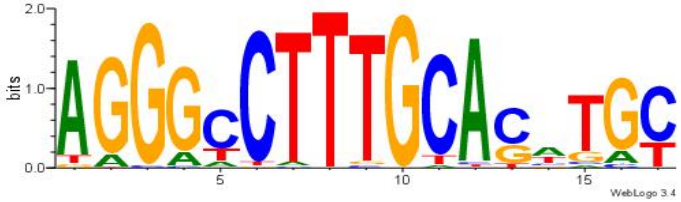

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

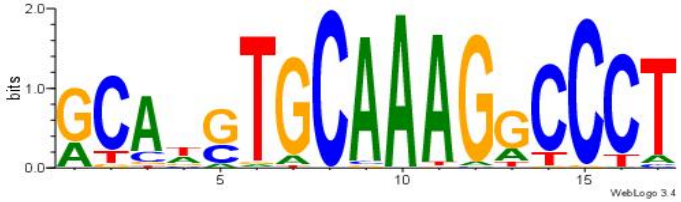

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0885951

Alignment:
GGTTCAAGCGATT
---TCAAGGTC--

Original motif Consensus sequence: AATCGCTTGAACC

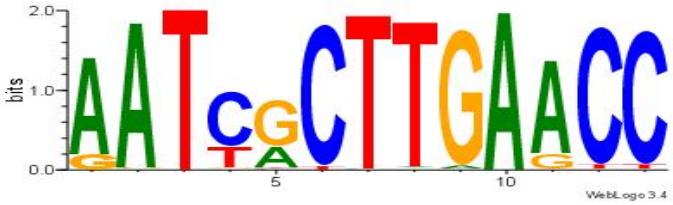

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

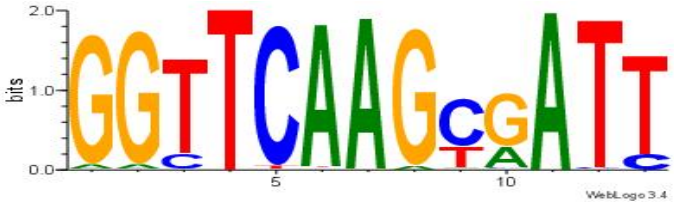

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0894221

Alignment:
AGAAATCGAGCRCAGCGCCG
-------TCAAGGTC-----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

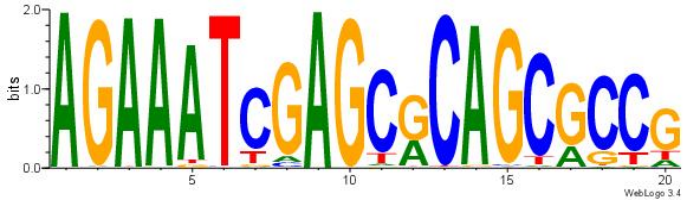

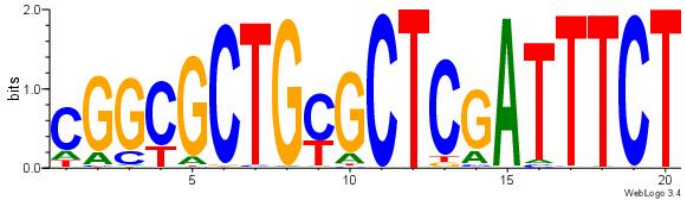

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0901878

Alignment:

```
CGTCGCTCACGCTGGGAGCT
------TCAAGGTC------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

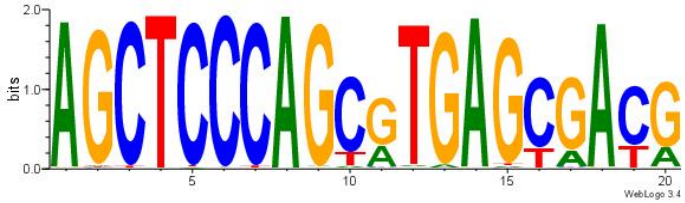

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

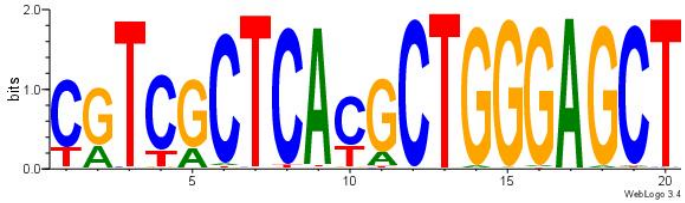

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0901976

Alignment:

```
CCCACGCCCACCCGGAACT
---GACCTTGA--------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

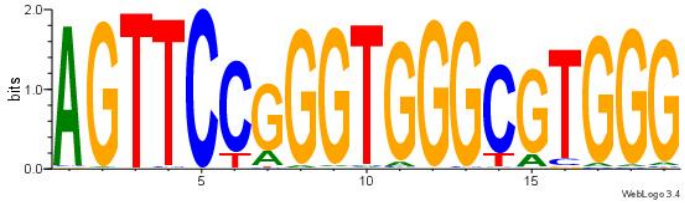

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

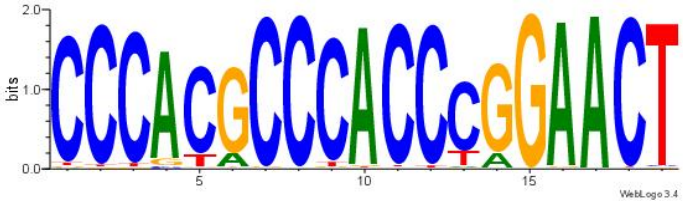

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8

Similarity score: 0.0902821

Alignment:
AGTTCTTAAAGATGGT
------TCAAGGTC--

Original motif Consensus sequence: AGTTCTTAAAGATGGT

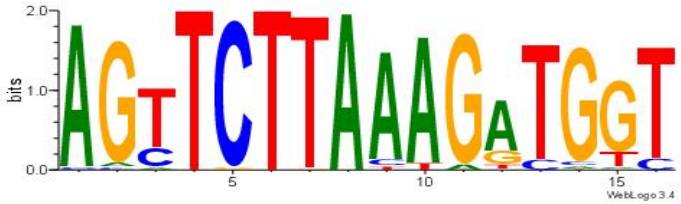

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

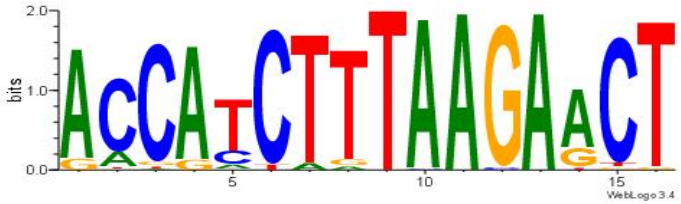

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0902936

Alignment:
TCAATGGGCTCCCAAATG
TCAAGGTC----------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

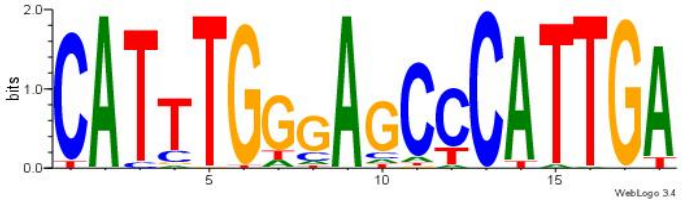

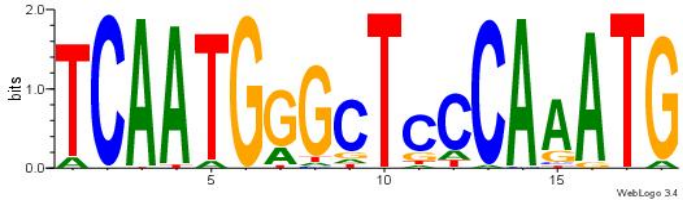

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 8
Similarity score: 0.0902976

Alignment:
ACTGTCTTCCACCTCCACAT
---------GACCTTGA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

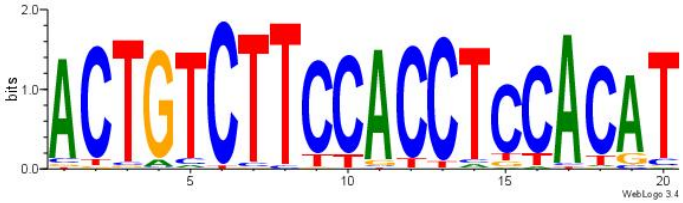

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

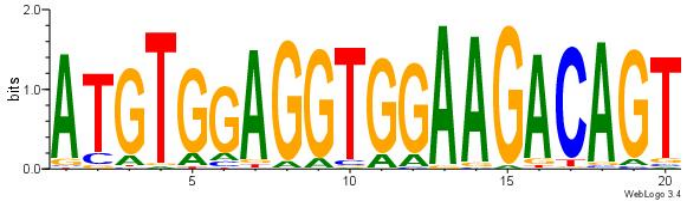

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0907166

Alignment:

```
TCCAAATGGGAGAAATTGGC
-----------GACCTTGA-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

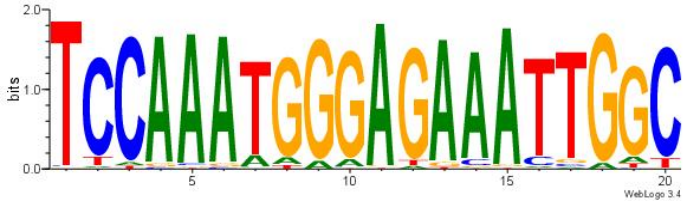

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

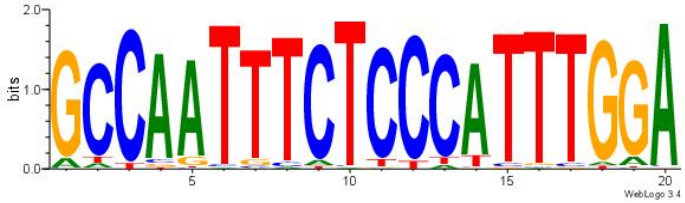

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8

Similarity score: 0.0908925

Alignment:
CAAGCGCCAGCTCATGTC
-----TCAAGGTC-----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

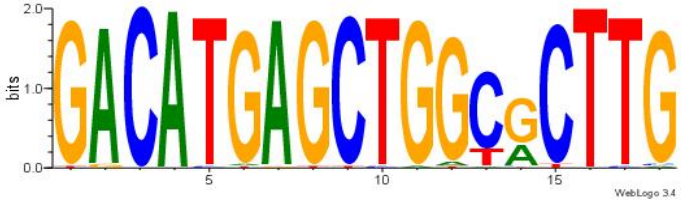

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

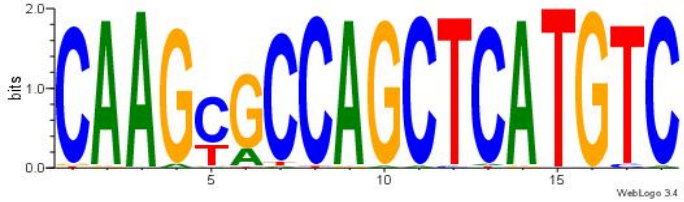

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0911727

Alignment:
GCTCACTGCAASCTC
TCAAGGTC-------

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

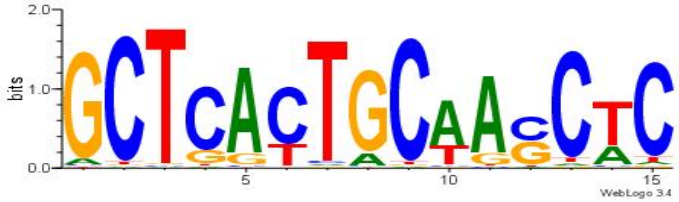

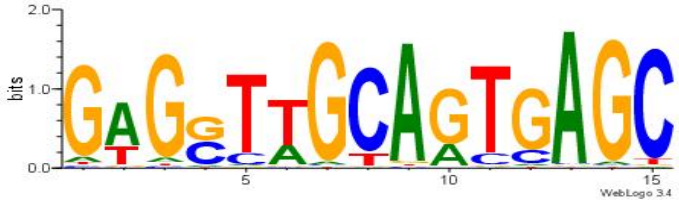

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0913782

Alignment:

```
ACTTTGGACTGTGGACTTTT
------GACCTTGA------
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

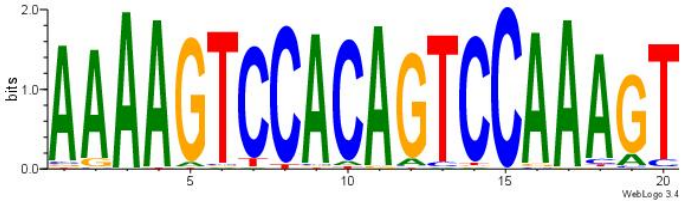

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

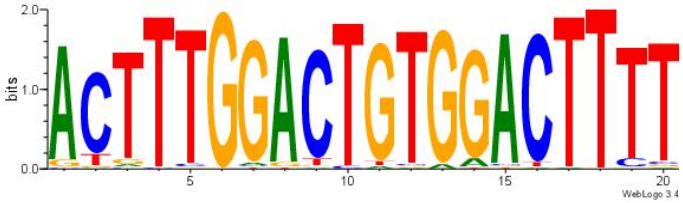

Dataset #: 1

Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0919782

Alignment:

```
CTGAGGACCTGAGGTCRTA
--------TCAAGGTC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

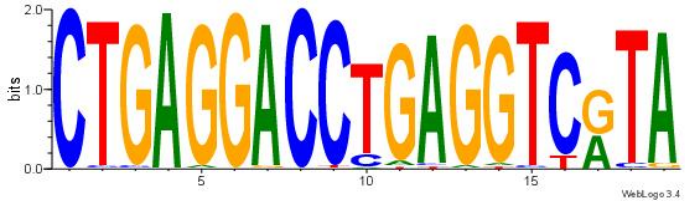

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

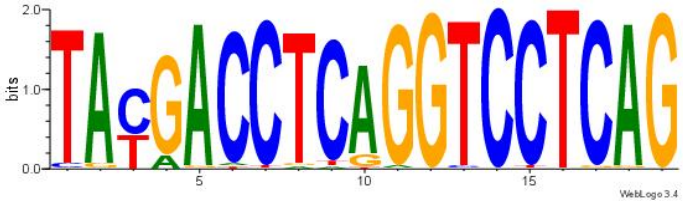

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8

Similarity score: 0.0922859

Alignment:
ACAAGGCAAGTCCCTTCY
-----TCAAGGTC-----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

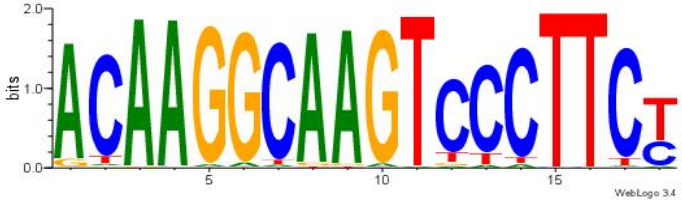

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

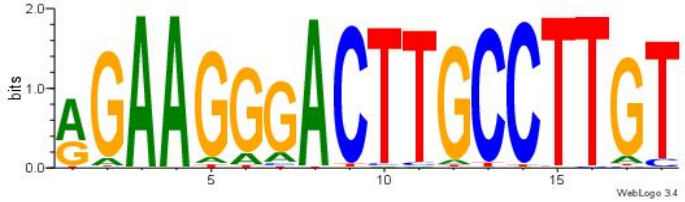

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0927549

Alignment:
AATCAACCCTGGYRATCAAT
----GACCTTGA--------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

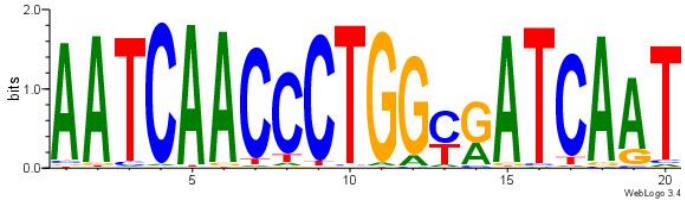

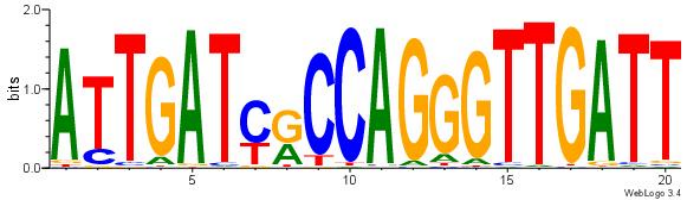

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0929981

Alignment:

```
GACAGGAGATTAACACTGAG
-----GACCTTGA-------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

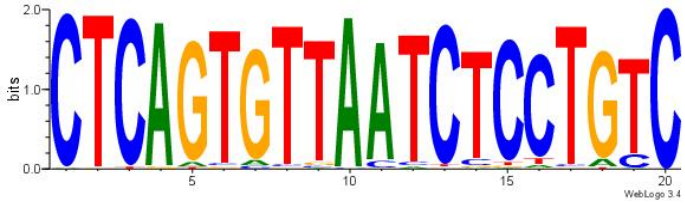

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

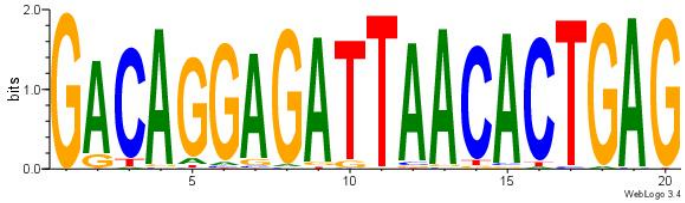

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0931152

Alignment:

```
AAAMAMMKMATGTTCTCACT
-------TCAAGGTC-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

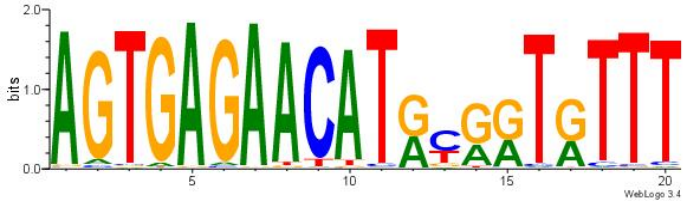

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

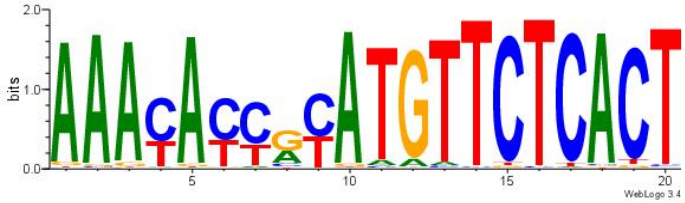

Dataset #: 1 Motif ID: 34 Motif name: Motif 34

Original motif Consensus sequence: GGACGCACA

Reverse complement motif Consensus sequence: TGTGCGTCC

Best Matches for Significant Motif ID 34 (Highest to Lowest)

Dataset #:	1
Motif ID:	314
Motif name:	Motif 314
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0220227

Alignment:

```
ATGTGCGTTCC
-TGTGCGTCC-
```

Original motif Consensus sequence: GGAACGCACAT

Reverse complement motif Consensus sequence: ATGTGCGTTCC

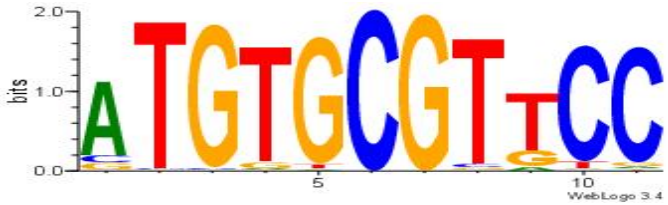

Dataset #:	1
Motif ID:	87
Motif name:	Motif 87
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0275308

Alignment:
GGACACACATG
GGACGCACA--

Original motif Consensus sequence: CATGTGTGTCC

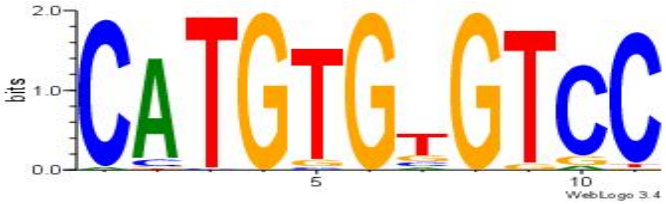

Reverse complement motif Consensus sequence: GGACACACATG

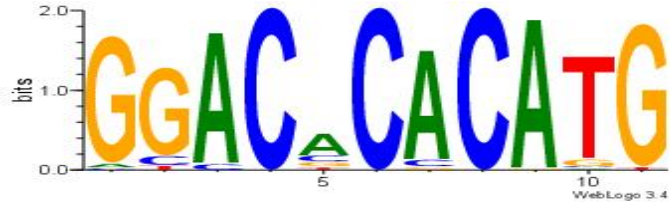

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0465084

Alignment:
GCTCCWGTGYGKCC
-----TGTGCGTCC

Original motif Consensus sequence: GCTCCWGTGYGKCC

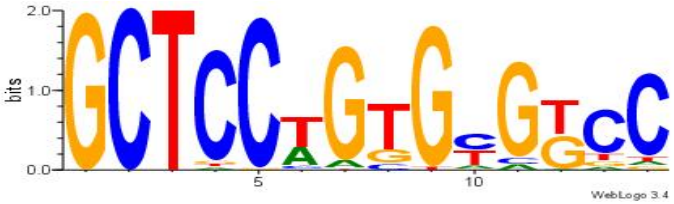

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0483962

Alignment:

```
HGCTCCTGTGSKCCC
------TGTGCGTCC
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

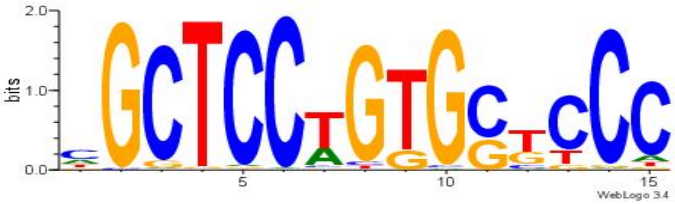

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0524947

Alignment:

```
CCATGTGSTCCC
---TGTGCGTCC
```

Original motif Consensus sequence: CCATGTGSTCCC

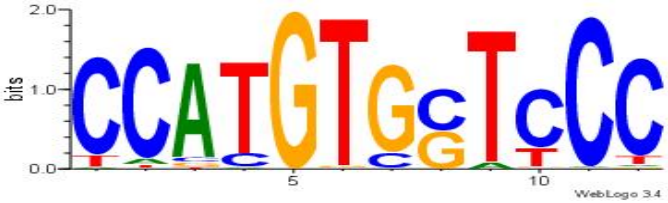

Reverse complement motif Consensus sequence: GGGASCACATGG

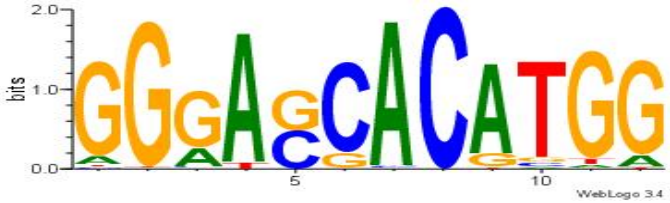

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9

Similarity score: 0.0583847

Alignment:
TCACKMGGGAAGCGCAAG
--GGACGCACA-------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

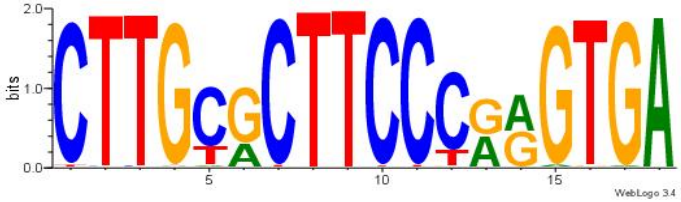

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

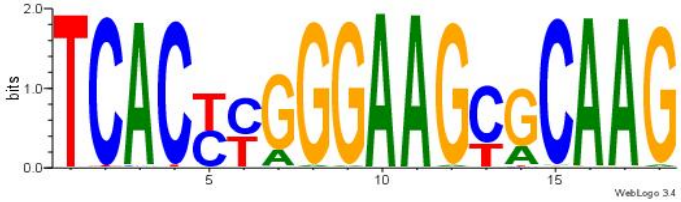

Dataset #: 1
Motif ID: 240
Motif name: Motif 240
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0627817

Alignment:
GGGACWGCACAT
--GGACGCACA-

Original motif Consensus sequence: ATGTGCWGTCCC

Reverse complement motif Consensus sequence: GGGACWGCACAT

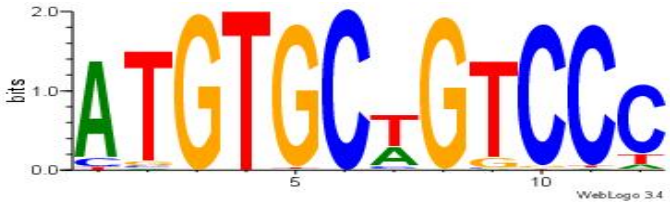

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0651977

Alignment:

```
GTGGGTGCGCGCA
---TGTGCGTCC-
```

Original motif Consensus sequence: GTGGGTGCGCGCA

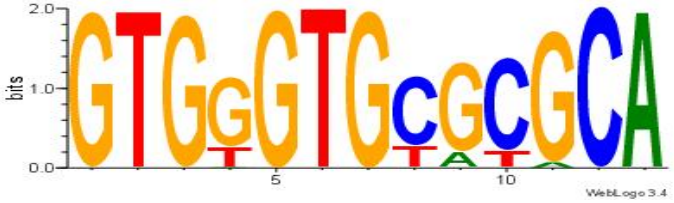

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

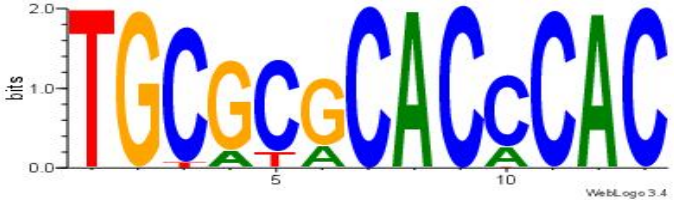

Dataset #:	1
Motif ID:	112

Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0682568

Alignment:

```
GCTGTGTGACCTTGGGCAAG
--TGTGCGTCC---------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

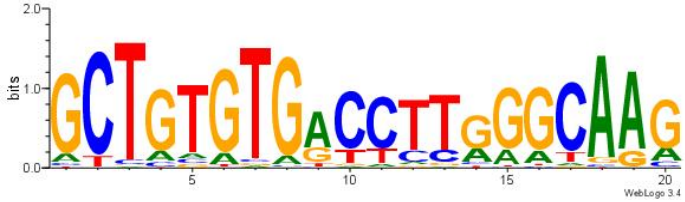

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

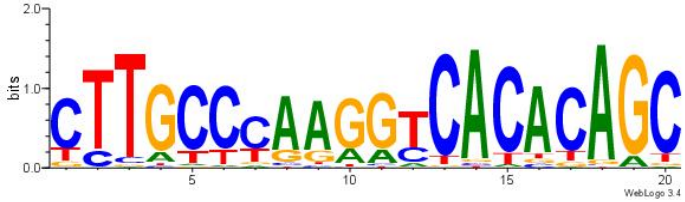

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0703469

Alignment:
GKCTGTACCCCCATTGTAT
---TGTGCGTCC-------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

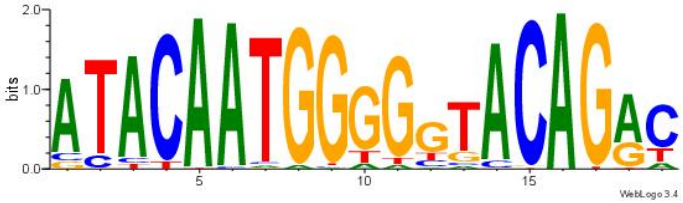

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

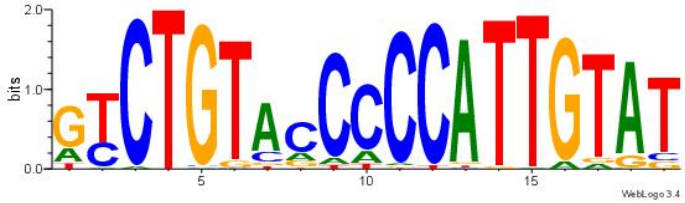

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0707606

Alignment:
CCGCTGCACTGTGGGAGCCC
----------TGTGCGTCC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

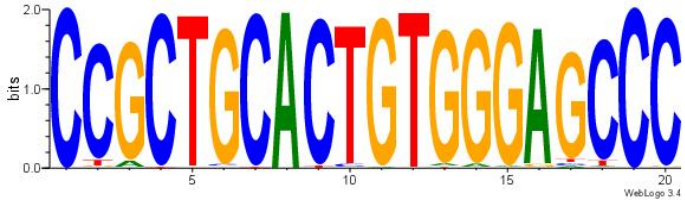

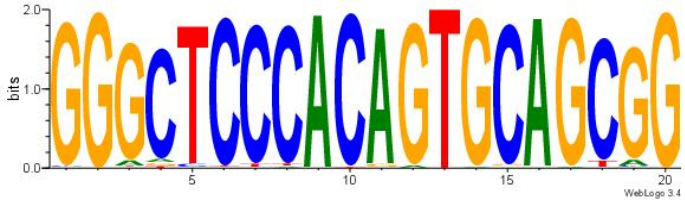

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0716176

Alignment:

```
CCATGGCGTCC
--TGTGCGTCC
```

Original motif Consensus sequence: CCATGGCGTCC

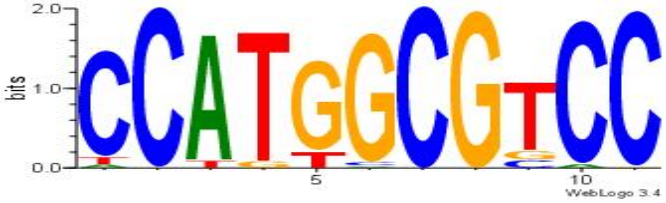

Reverse complement motif Consensus sequence: GGACGCCATGG

Dataset #:	1
Motif ID:	42

Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.072857

Alignment:

```
GCGGCCGGGCAGAG
--GGACGCACA---
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

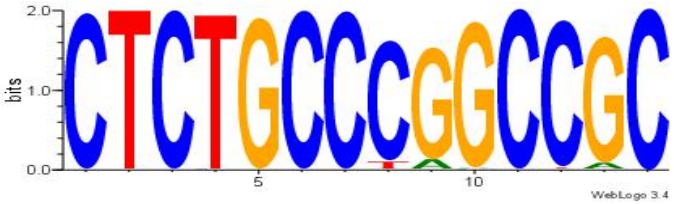

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

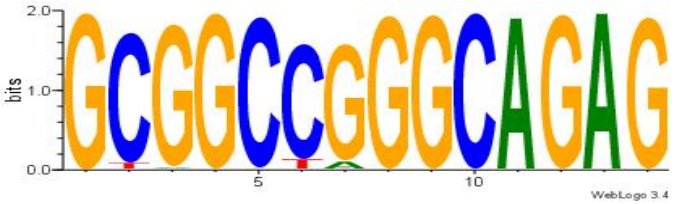

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0732172

Alignment:
CTGTCAGCCCAT
-TGTGCGTCC--

Original motif Consensus sequence: CTGTCAGCCCAT

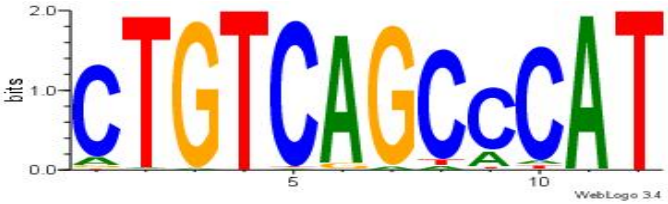

Reverse complement motif Consensus sequence: ATGGGCTGACAG

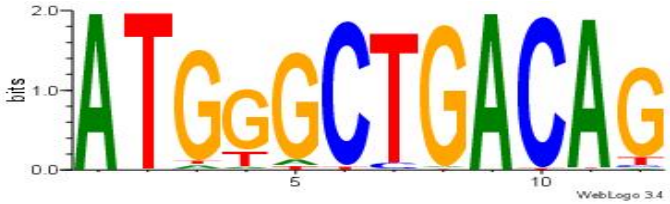

Dataset #:	1
Motif ID:	50
Motif name:	Motif 50
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0738752

Alignment:
GCCCTCACATC
GGACGCACA--

Original motif Consensus sequence: GATGTGAGGGC

Reverse complement motif Consensus sequence: GCCCTCACATC

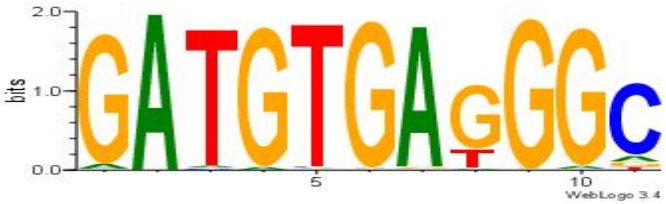

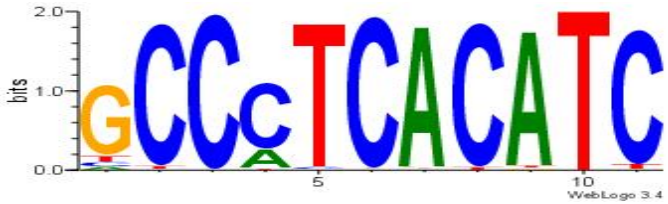

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0741054

Alignment:

```
TCAATGGGCTCCCAAATG
----TGTGCGTCC-----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

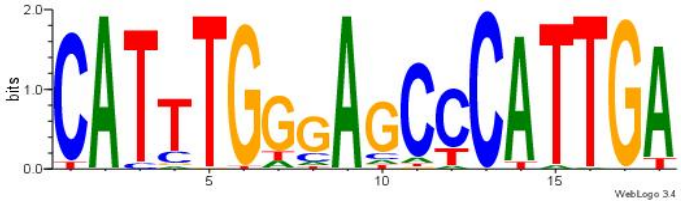

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

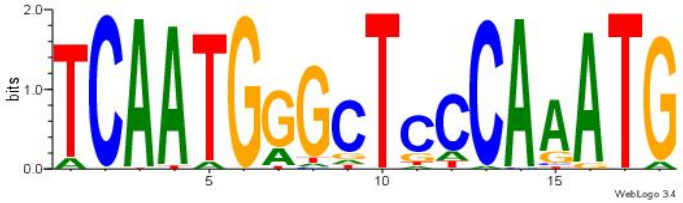

Dataset #: 1

Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0741181

Alignment:

```
CATCTGGCAGCCCA
-----GGACGCACA
```

Original motif Consensus sequence: CATCTGGCAGCCCA

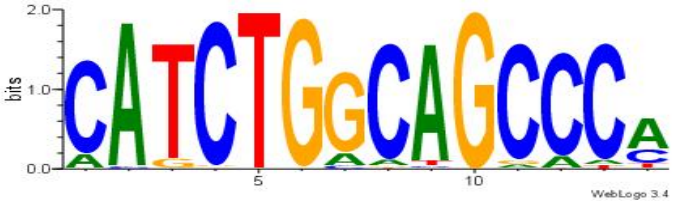

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

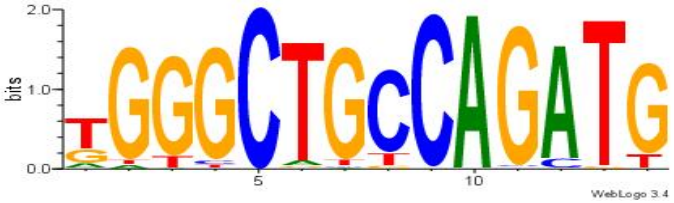

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0751572

Alignment:
CTGGGTCCCCCAGCAGTGCC
---GGACGCACA--------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

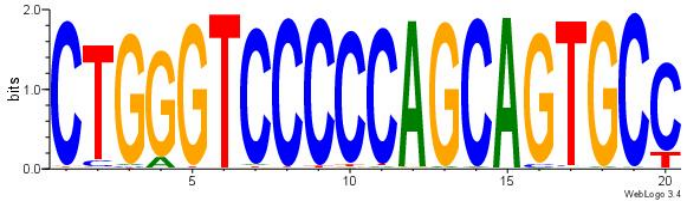

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

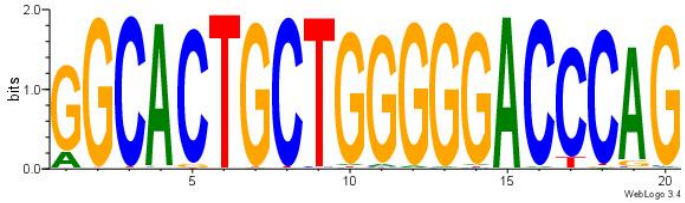

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0757493

Alignment:
ACAGGCTTTGTGTGAGCA
--------TGTGCGTCC-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

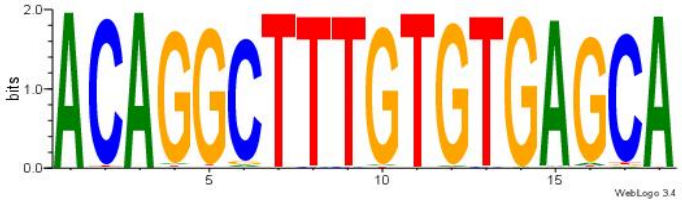

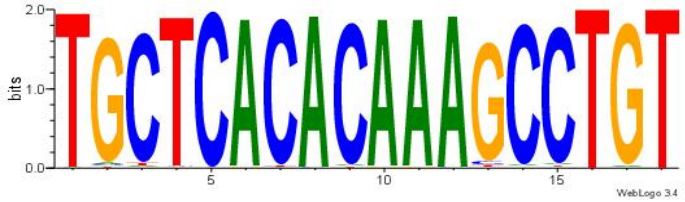

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0766163

Alignment:

```
TCTCTGAGCCTCAGTT
----TGTGCGTCC---
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

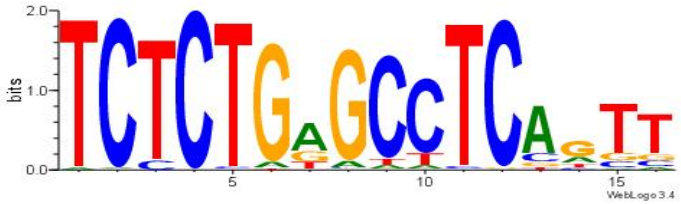

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

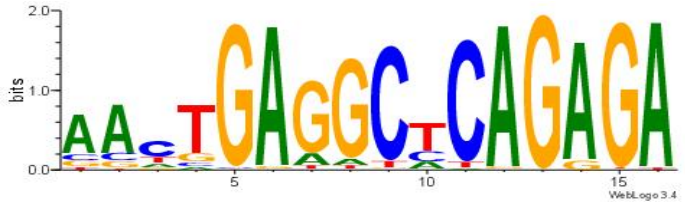

Dataset #:	1

Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0769604

Alignment:

```
ATTGCTAGCACA
---GGACGCACA
```

Original motif Consensus sequence: ATTGCTAGCACA

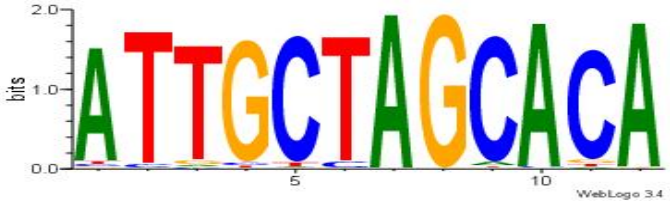

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

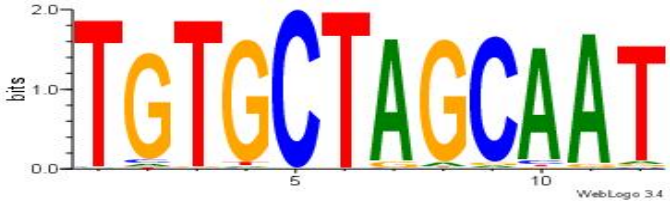

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0770804

Alignment:
TTTGGTGCACCCATCA
---TGTGCGTCC----

Original motif Consensus sequence: TGATGGGTGCACCAAA

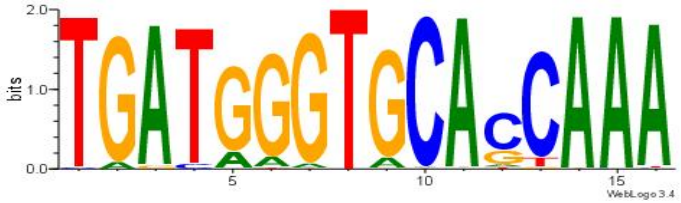

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

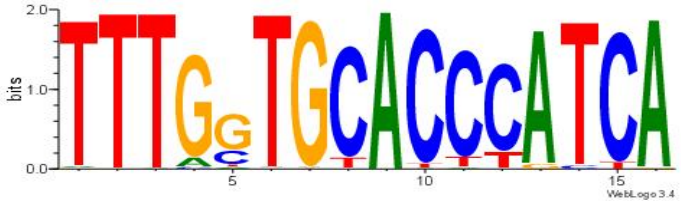

Dataset #:	1
Motif ID:	265
Motif name:	Motif 265
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0772292

Alignment:
TGCGCATGCGC
TGTGCGTCC--

Original motif Consensus sequence: GCGCATGCGCA

Reverse complement motif Consensus sequence: TGCGCATGCGC

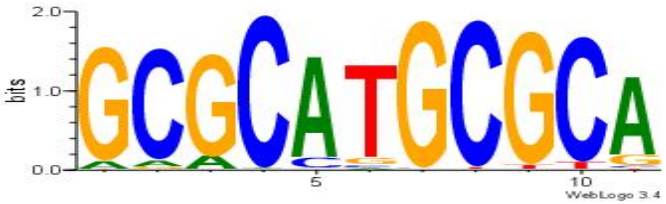

Dataset #:	1
Motif ID:	268
Motif name:	Motif 268
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.077328

Alignment:

```
ATAGTGAGACC
--TGTGCGTCC
```

Original motif Consensus sequence: ATAGTGAGACC

Reverse complement motif Consensus sequence: GGTCTCACTAT

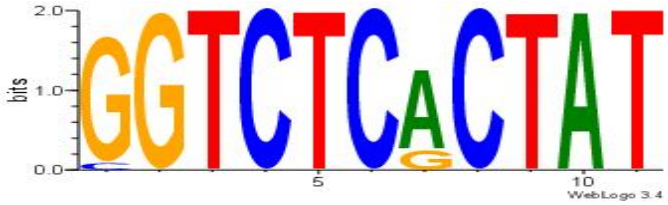

Dataset #:	1
Motif ID:	61

Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0788068

Alignment:

```
GGATCCACTGGGTGAAGCCA
GGACGCACA-----------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

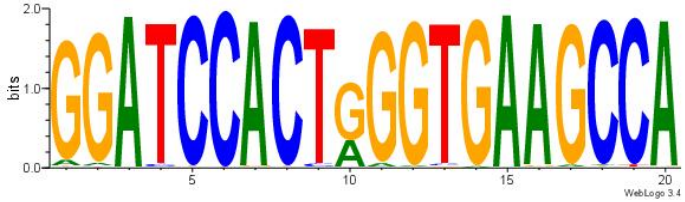

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

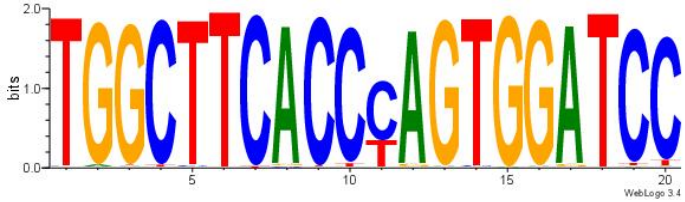

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0793171

Alignment:
TGHCCTGCKCCCACTGTCT
----GGACGCACA------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

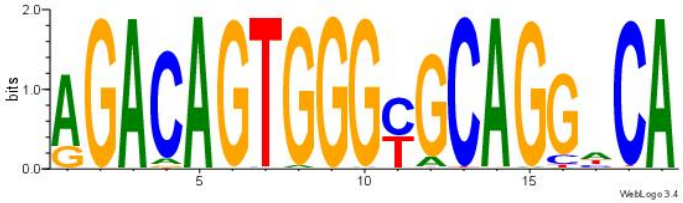

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

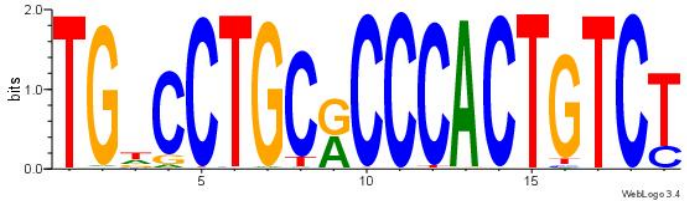

Dataset #:	1
Motif ID:	180
Motif name:	Motif 180
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0797771

Alignment:
TGCGCATGCGCA
TGTGCGTCC---

Original motif Consensus sequence: TGCGCATGCGCA

Reverse complement motif Consensus sequence: TGCGCATGCGCA

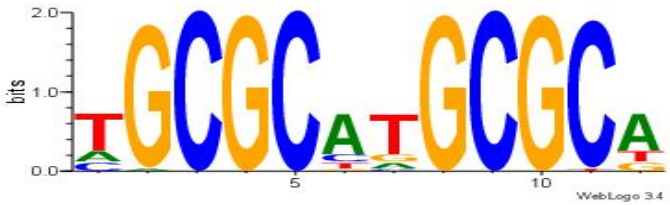

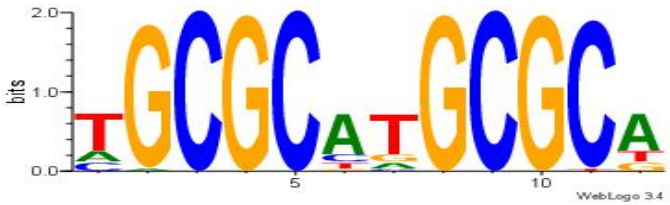

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.080116

Alignment:

```
TTGAGGAGGCAGTCTG
----GGACGCACA---
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

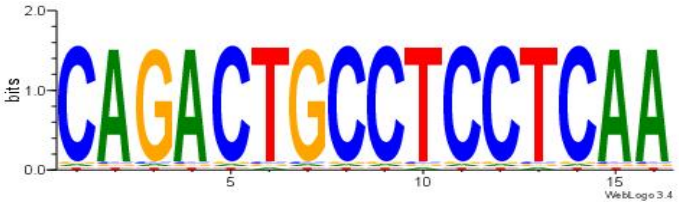

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

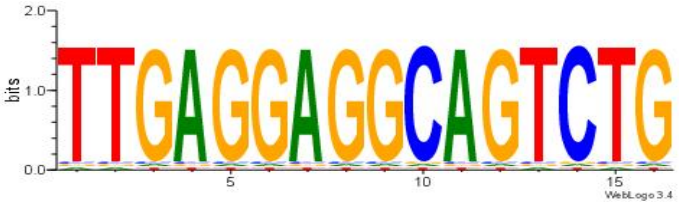

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0809948

Alignment:

```
CTGACTGGGAGACACCTCCC
-------GGACGCACA----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

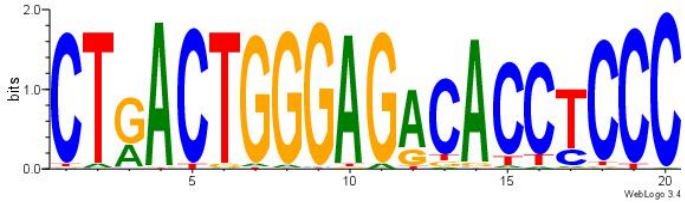

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

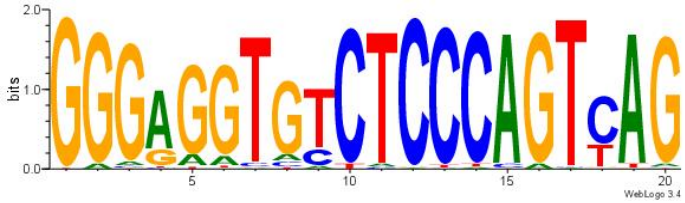

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9

Similarity score: 0.0817076

Alignment:
AGGACTGAGGGTGCCYRGGG
-----TGTGCGTCC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

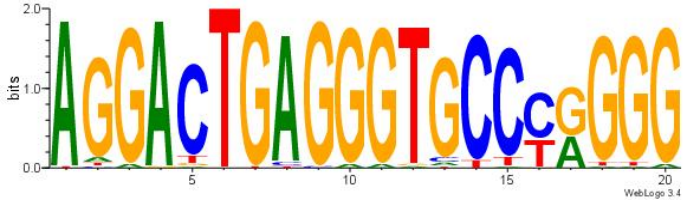

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

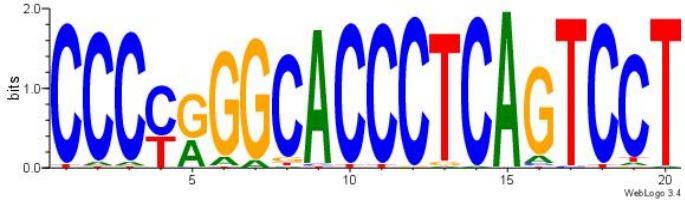

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.0817471

Alignment:
AGTGTTTCCAAMCTGCT
TGTGCGTCC--------

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

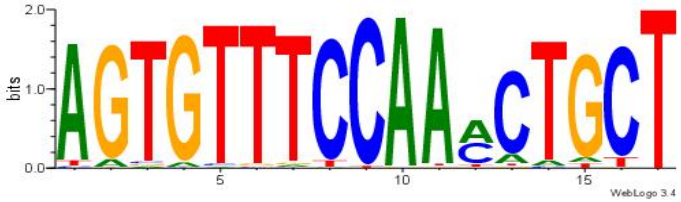

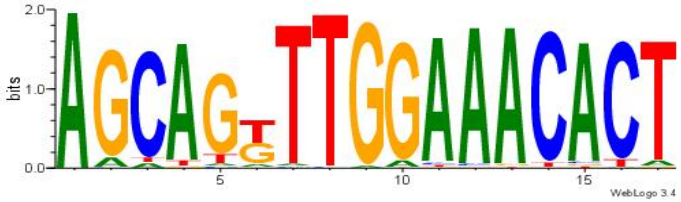

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0820876

Alignment:

```
GGGAGGGATATATTAGC
-GGACGCACA-------
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

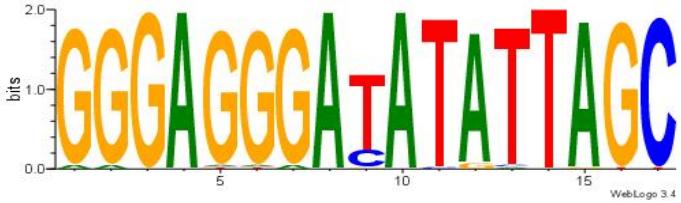

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

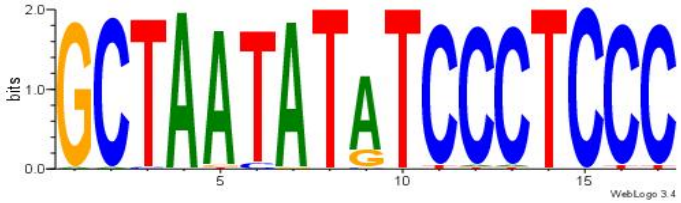

Dataset #: 1

Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0821731

Alignment:

```
CTGCGTCGCTCAC
---GGACGCACA-
```

Original motif Consensus sequence: CTGCGTCGCTCAC

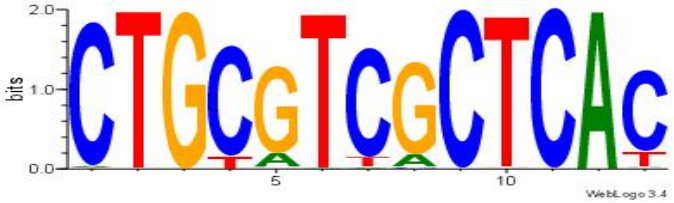

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

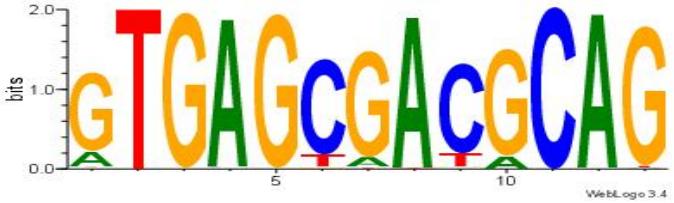

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0823928

Alignment:
CCTCRGCCTCC
TGTGCGTCC--

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0832609

Alignment:
TCTGGAGTGGACCTCCAGCA
--------GGACGCACA---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

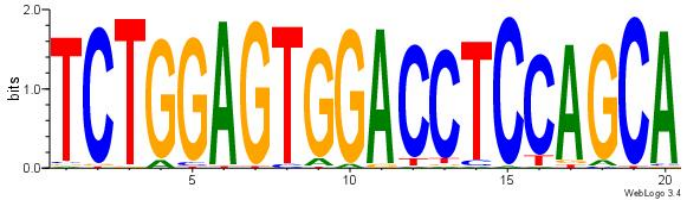

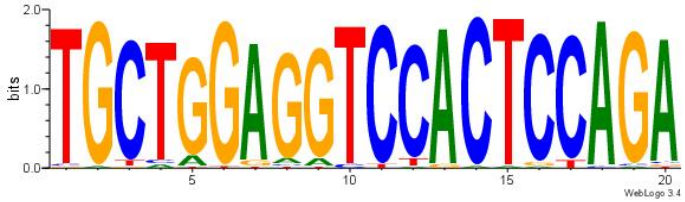

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0840125

Alignment:

```
ATCTGACAGGAGGYRGAGCT
--------GGACGCACA---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

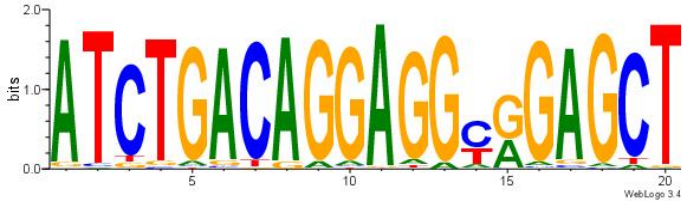

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

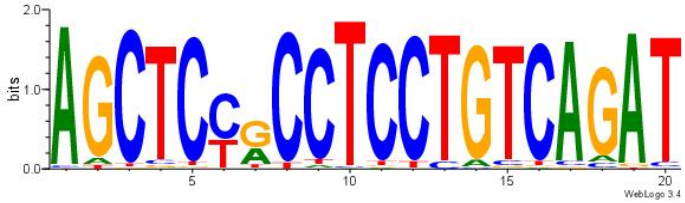

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0856003

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
--------TGTGCGTCC---
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

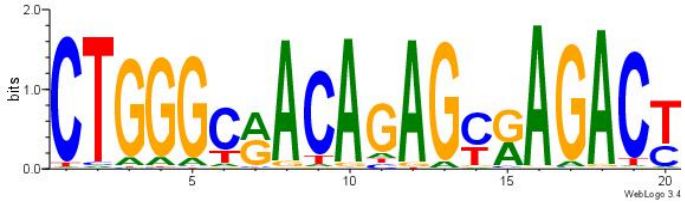

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

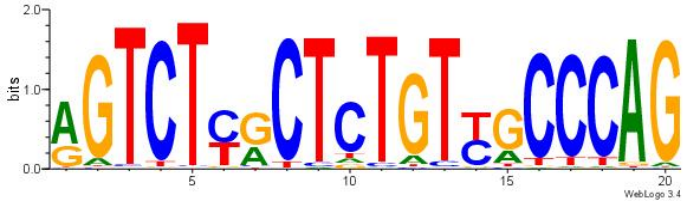

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0857034

Alignment:
GCGCTCKTCGGGGAGGCTCG
----------GGACGCACA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

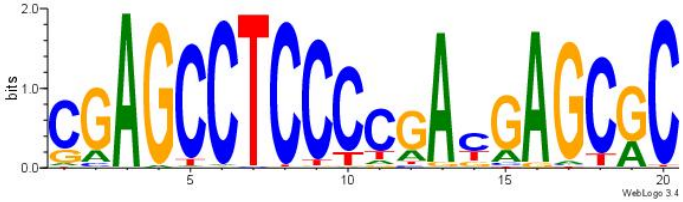

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

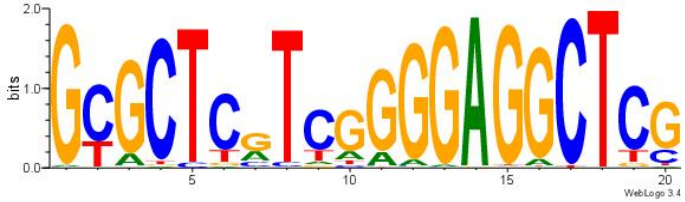

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0857744

Alignment:
CCCACGCCCACCCGGAACT
-GGACGCACA---------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

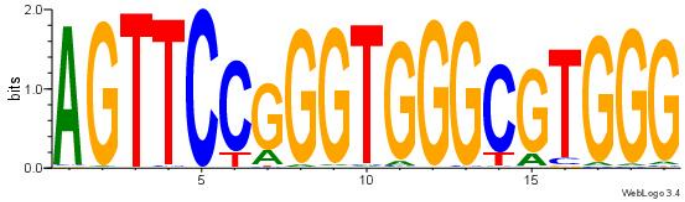

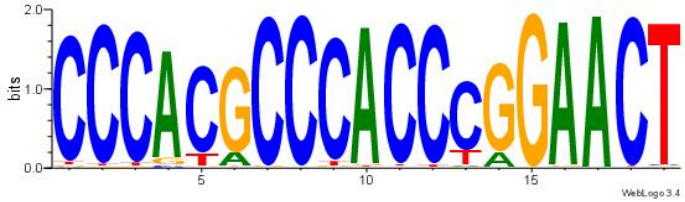

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0861841

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--------GGACGCACA---
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

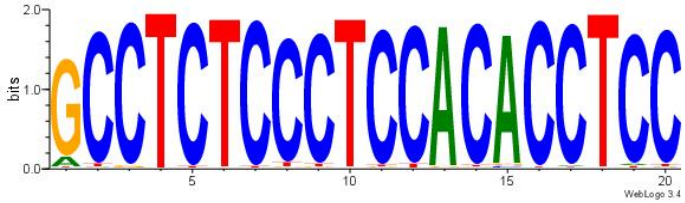

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

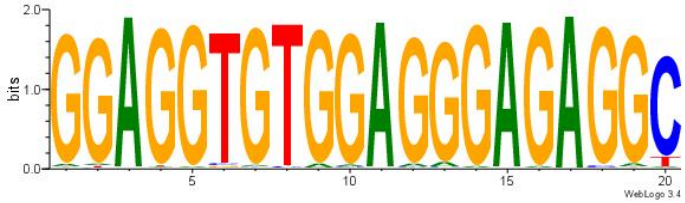

Dataset #:	1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0862375

Alignment:

```
GACATGGAGTCAAAGG
-----GGACGCACA--
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

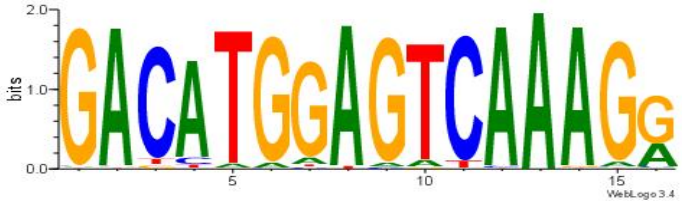

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

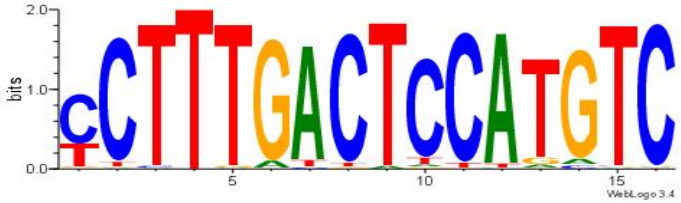

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0867638

Alignment:
TGTATTAGTCMMTT
--TGTGCGTCC---

Original motif Consensus sequence: AAYRGACTAATACA

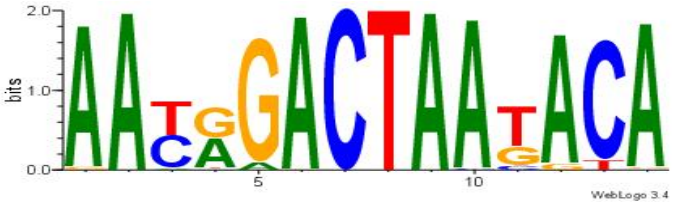

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

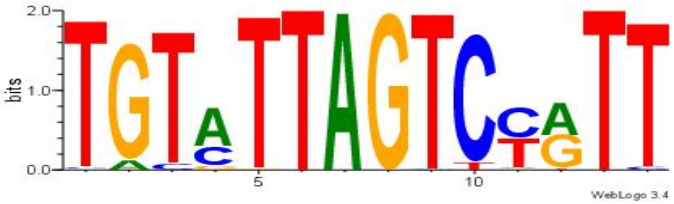

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 9
Similarity score: 0.0872879

Alignment:
AATTAAAAGACACAGACTG
-------GGACGCACA---

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

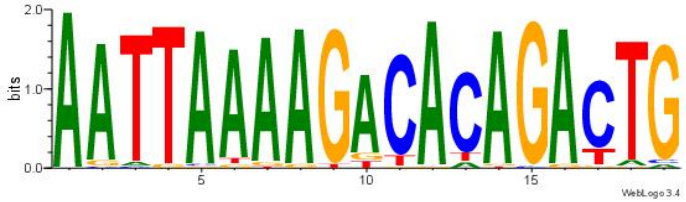

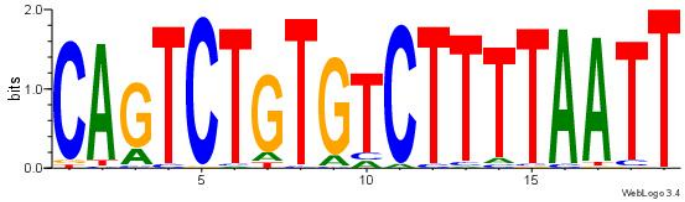

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0873533

Alignment:

```
CGGCTCGCGCACGG
---GGACGCACA--
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

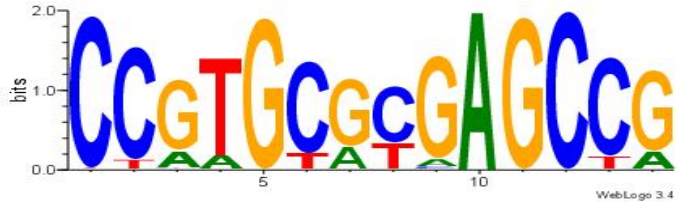

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

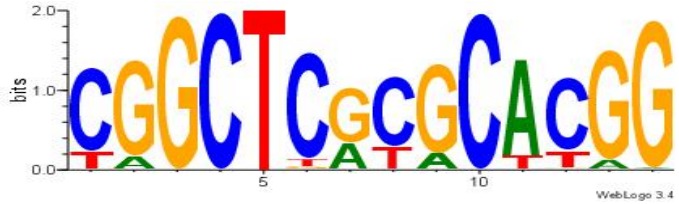

Dataset #:	1
Motif ID:	320

Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.088207

Alignment:

```
CATCTGGAGCCCCA
-----GGACGCACA
```

Original motif Consensus sequence: CATCTGGAGCCCCA

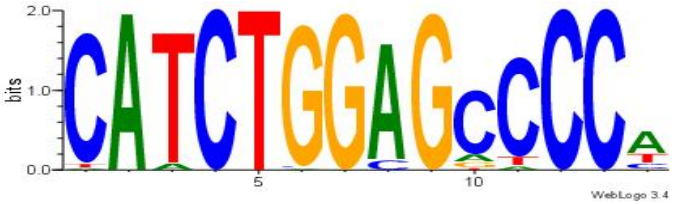

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

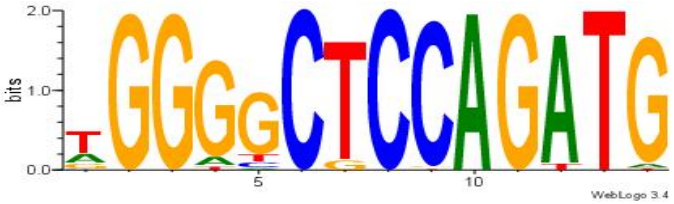

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0884002

Alignment:
TGCACTGCACCCAC
---TGTGCGTCC--

Original motif Consensus sequence: TGCACTGCACCCAC

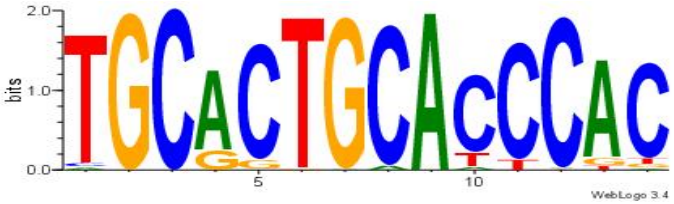

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

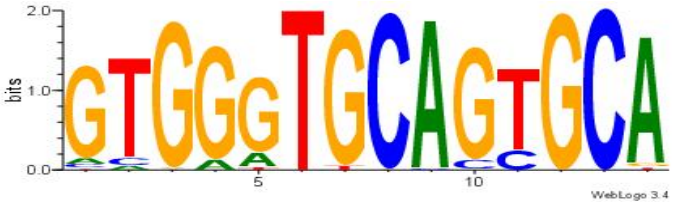

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.089762

Alignment:
GCCCTCACCAGAAGC
GGACGCACA------

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

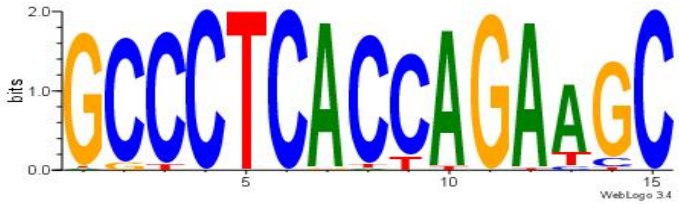

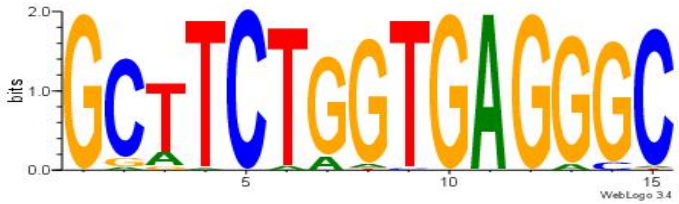

Dataset #:	1
Motif ID:	110
Motif name:	Motif 110
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.090494

Alignment:

```
TGGCACCCCAT
-GGACGCACA-
```

Original motif Consensus sequence: ATGGGGTGCCA

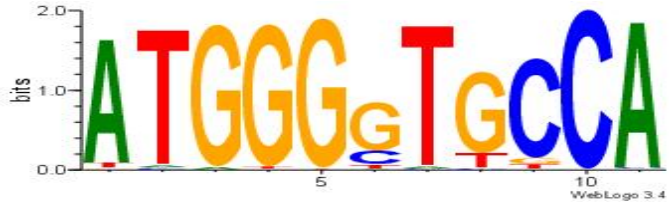

Reverse complement motif Consensus sequence: TGGCACCCCAT

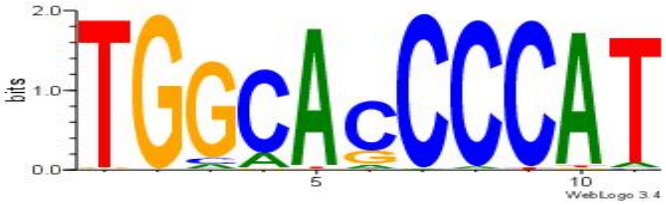

Dataset #:	1
Motif ID:	56

Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0907551

Alignment:

```
CRTGAGCCACYGYRCCYGGC
--TGTGCGTCC---------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

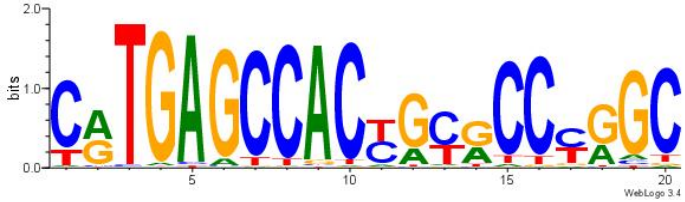

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

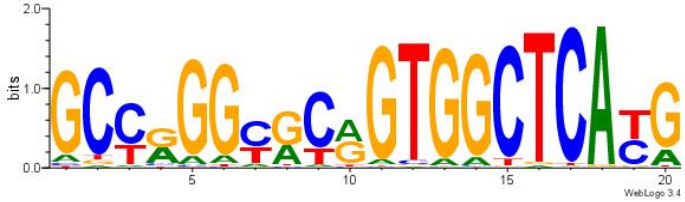

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0910258

Alignment:
GGCATCACGGATCCTACCAA
GGACGCACA----------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

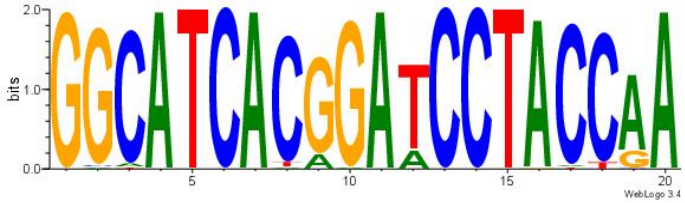

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

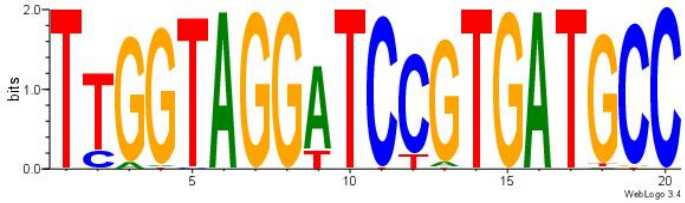

Dataset #: 1 Motif ID: 77 Motif name: Motif 77

Original motif Consensus sequence: AGGAAGAAA

Reverse complement motif Consensus sequence: TTTCTTCCT

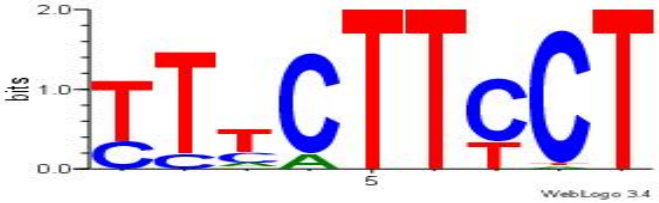

Best Matches for Significant Motif ID 77 (Highest to Lowest)

Dataset #:	1
Motif ID:	173
Motif name:	Motif 173
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number: 2
Number of overlap: 9
Similarity score: 0.0441796

Alignment:
TTGTTTCCTT
TTTCTTCCT-

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

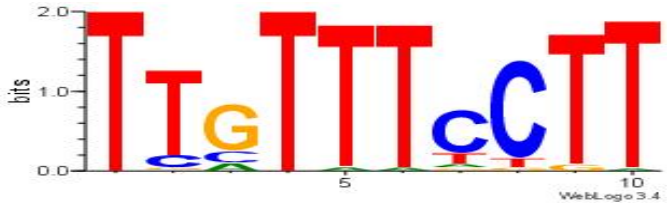

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 9
Similarity score: 0.0447051

Alignment:
AAGGAACAAACTCCRGACAC
-AGGAAGAAA----------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

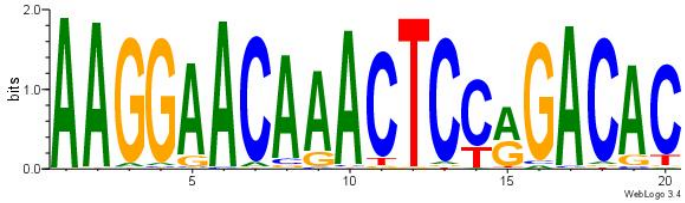

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

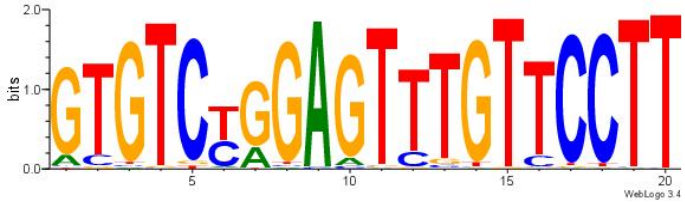

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0555228

Alignment:

```
GAAATTGACTTCCTCCT
-----TTTCTTCCT---
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

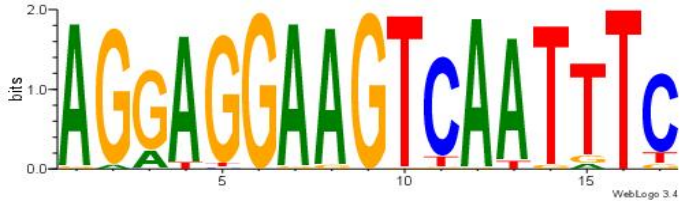

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

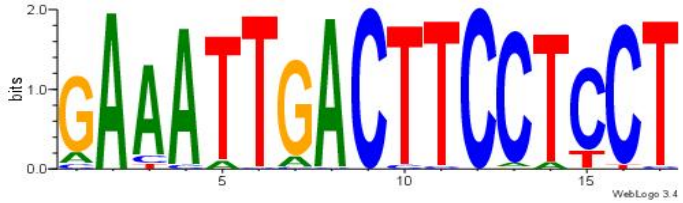

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0606671

Alignment:

```
TTTCTTTTCCTT
--TTTCTTCCT-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

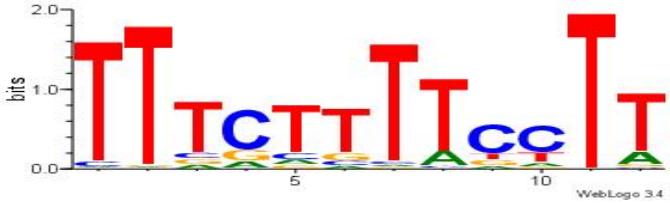

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9

Similarity score: 0.0607922

Alignment:
AGAAAGGCATGTGAAAA
AGGAAGAAA--------

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

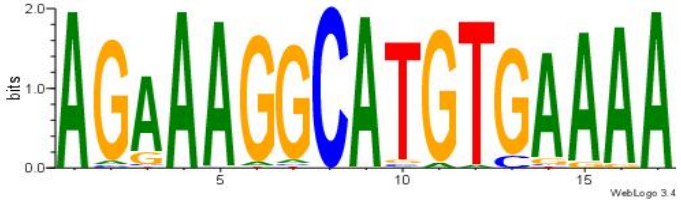

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

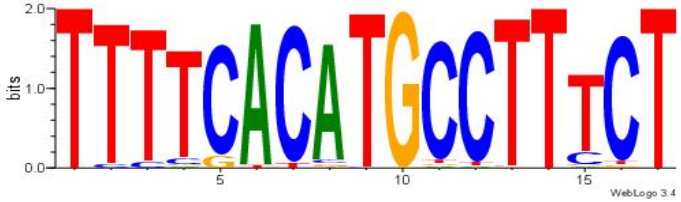

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0646774

Alignment:
GGGAGGAAGGGGACAC
---AGGAAGAAA----

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

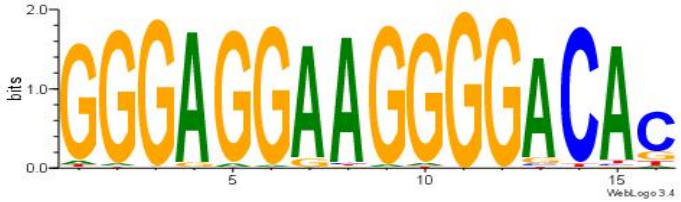

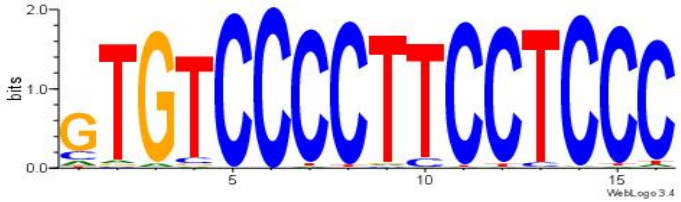

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0684354

Alignment:

```
TCCAAATGGGAGAAATTGGC
------AGGAAGAAA-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

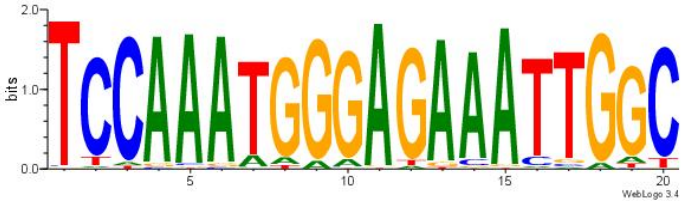

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

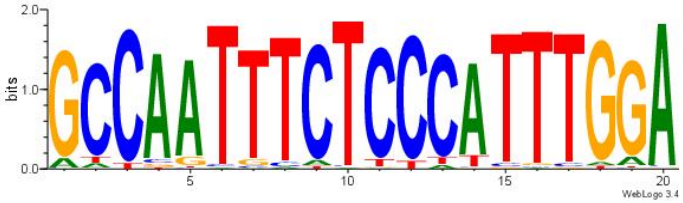

Dataset #: 1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0690253

Alignment:

```
CTCAGGAATGGAAAACC
---AGGAAGAAA-----
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

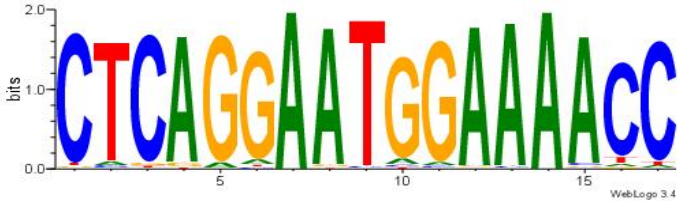

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

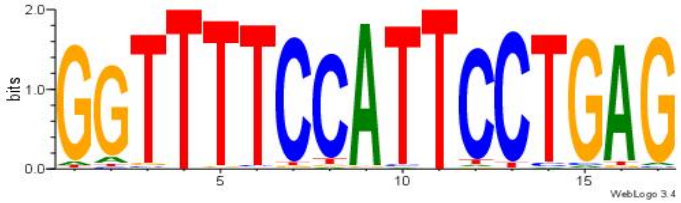

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	9

Similarity score: 0.0692476

Alignment:
CTCCTGCCTCAGCCTCCCRA
----------TTTCTTCCT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

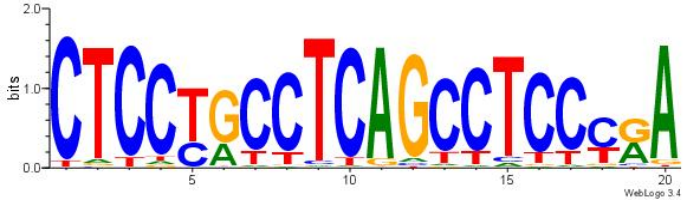

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

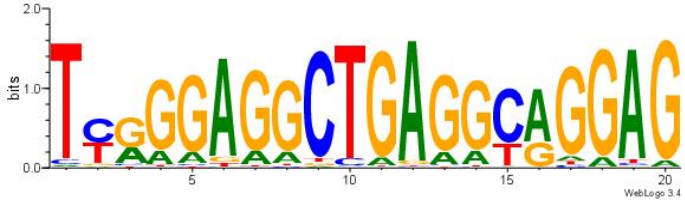

Dataset #: 1
Motif ID: 313
Motif name: Motif 313
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0693526

Alignment:
MGCTGAGGCAGGAG
-----AGGAAGAAA

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

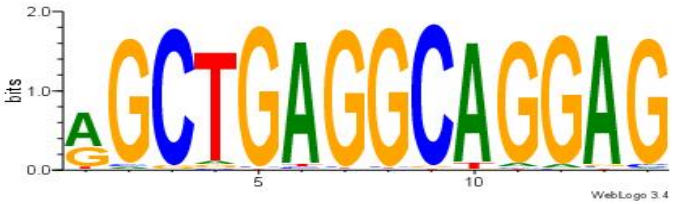

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0695218

Alignment:

```
AAAMAMMKMATGTTCTCACT
-----------TTTCTTCCT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

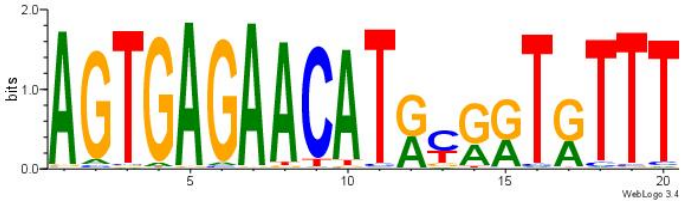

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

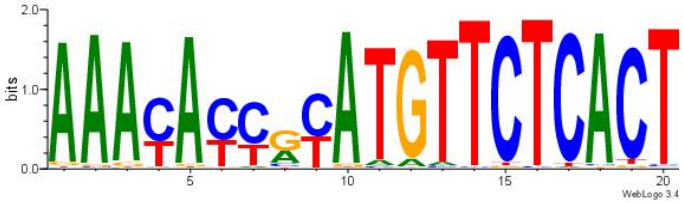

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0697081

Alignment:

```
CAACATGGATGRARCTGGAG
-----AGGAAGAAA------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

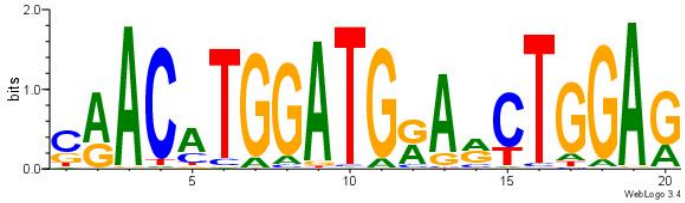

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

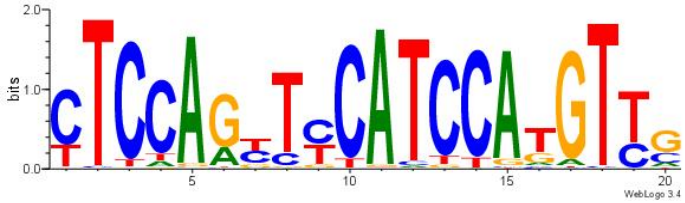

Dataset #:	1
Motif ID:	79
Motif name:	Motif 79
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9

Similarity score: 0.070812

Alignment:
AATGAATGAAT
-AGGAAGAAA-

Original motif Consensus sequence: AATGAATGAAT

Reverse complement motif Consensus sequence: ATTCATTCATT

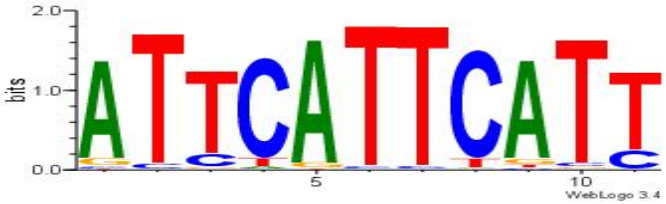

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 9
Similarity score: 0.0709465

Alignment:
ACTGTCTTCCACCTCCACAT
--TTTCTTCCT---------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

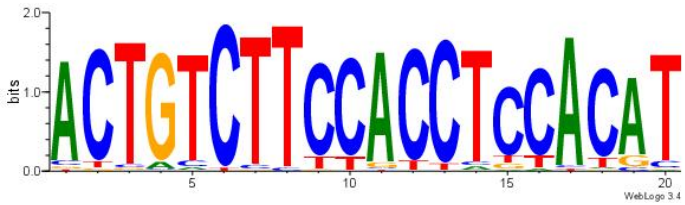

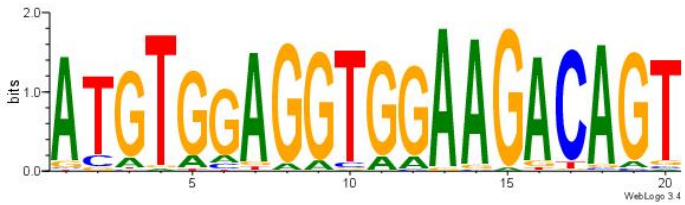

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.071964

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-----TTTCTTCCT------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

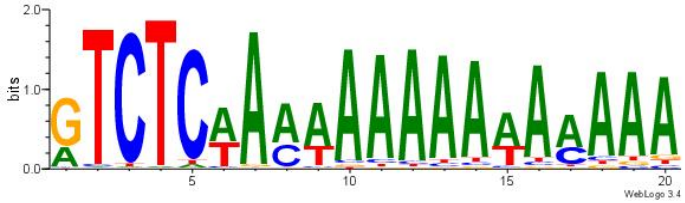

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

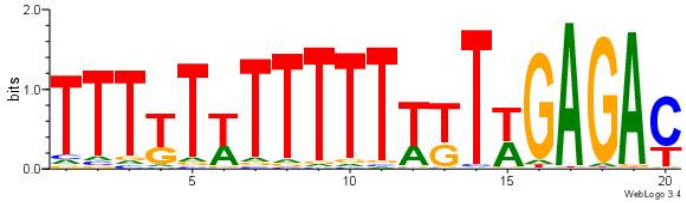

Dataset #: 1

Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0721728

Alignment:

```
TTTTTTTMTTT
-TTTCTTCCT-
```

Original motif Consensus sequence: AAAYAAAAAAA

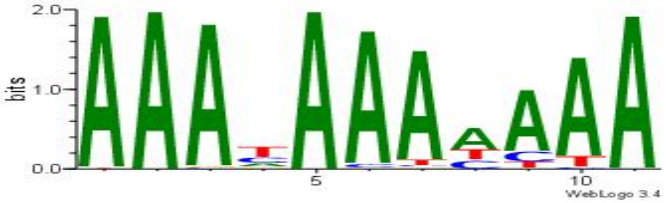

Reverse complement motif Consensus sequence: TTTTTTTMTTT

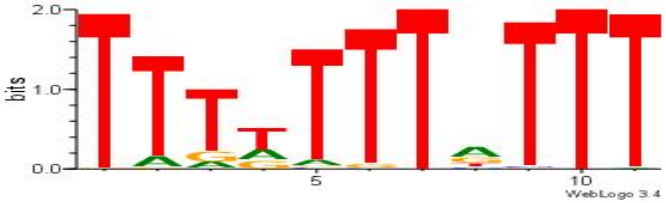

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0724426

Alignment:
GAGAGAGAGAGAGAGAGAGA
---AGGAAGAAA--------

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

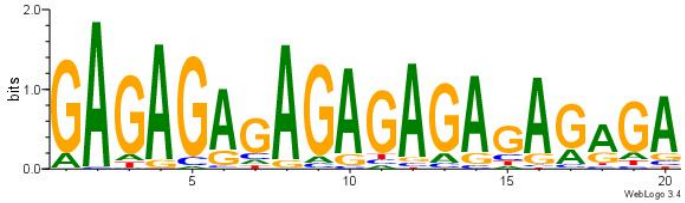

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

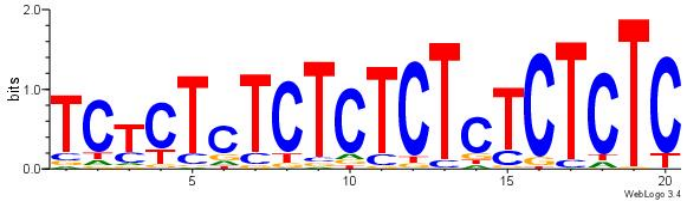

Dataset #:	1
Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0735592

Alignment:
GGTCCTCCTCTAT
TTTCTTCCT----

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

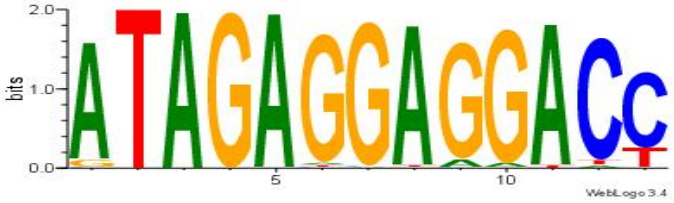

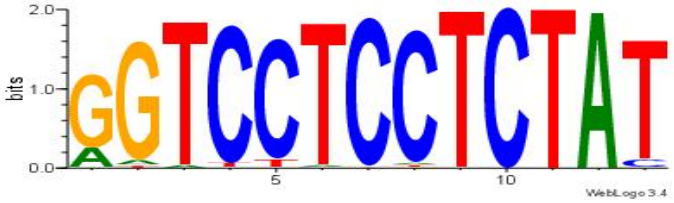

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0739544

Alignment:

```
GTTGTGAGGATTAAATGAG
------AGGAAGAAA----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

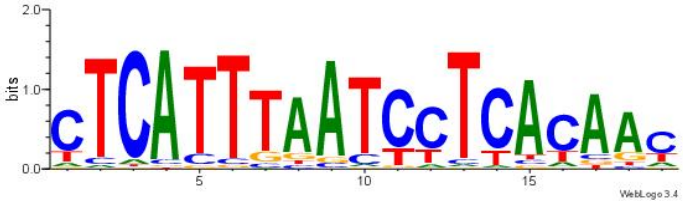

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

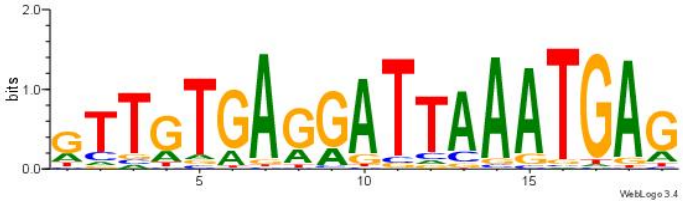

Dataset #: 1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0742504

Alignment:

```
TTGAGGAGGCAGTCTG
---AGGAAGAAA----
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

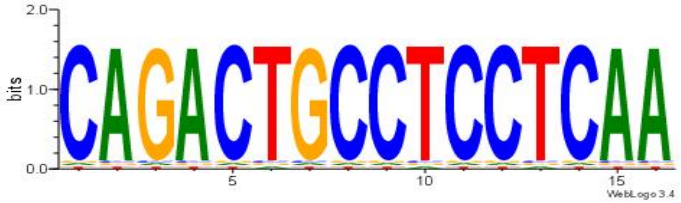

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

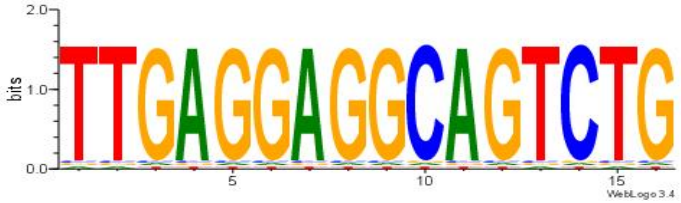

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9

Similarity score: 0.0755845

Alignment:
AGGTCCTTCAGGAGGTATTC
---------AGGAAGAAA--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

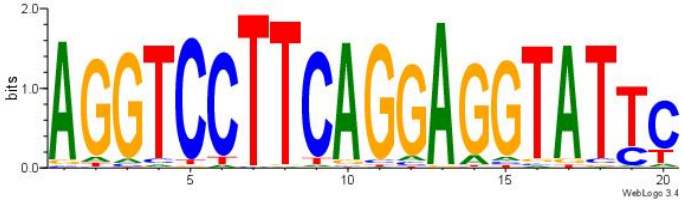

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

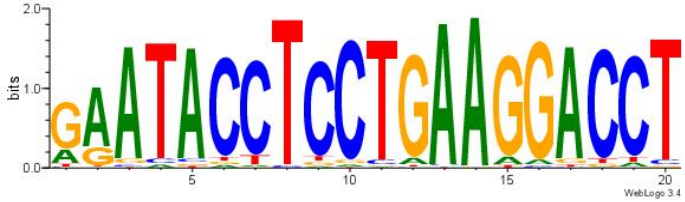

Dataset #: 1
Motif ID: 172
Motif name: Motif 172
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0774325

Alignment:
AGAAACAGAA
AGGAAGAAA-

Original motif Consensus sequence: AGAAACAGAA

Reverse complement motif Consensus sequence: TTCTGTTTCT

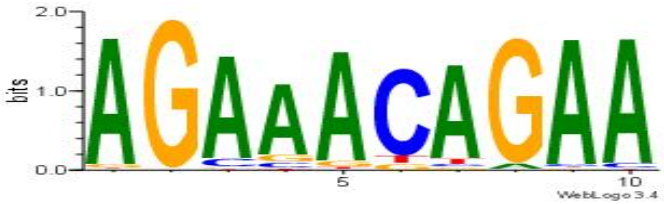

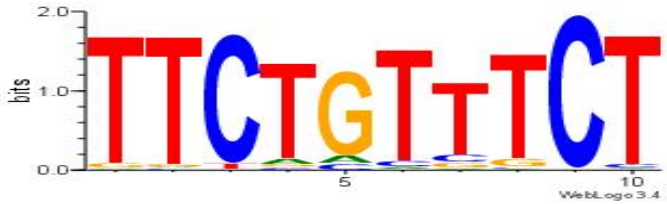

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0778483

Alignment:

```
TCACKMGGGAAGCGCAAG
---AGGAAGAAA------
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

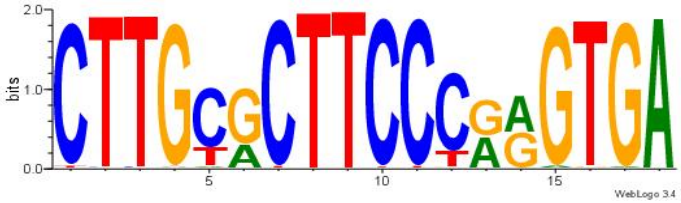

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

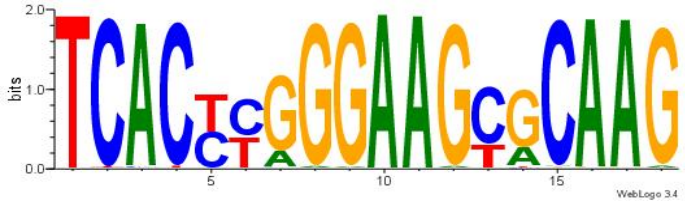

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0781158

Alignment:

```
CAAAGGCATAAGAATGAT
---AGGAAGAAA------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

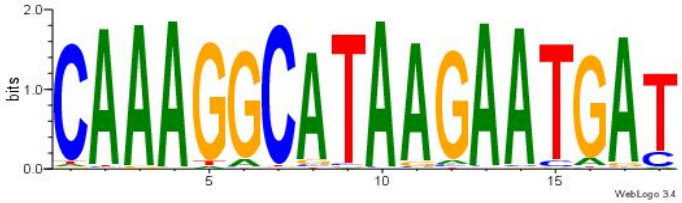

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

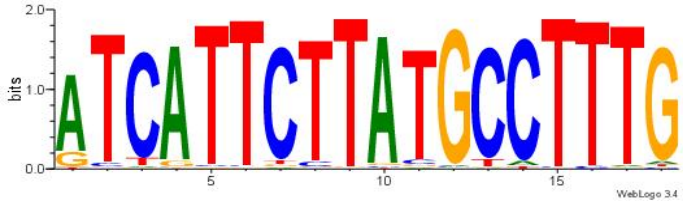

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0781464

Alignment:
GACTTCAAGAATGAAGCCG
------AGGAAGAAA----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

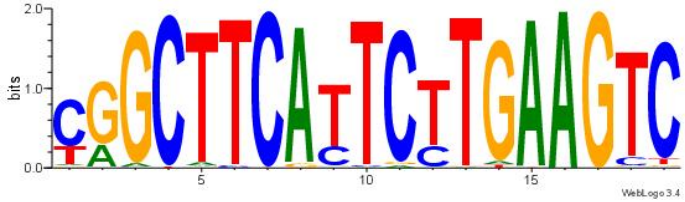

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0781576

Alignment:
GTAGACKGGAGCTGTTCCT
----------TTTCTTCCT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

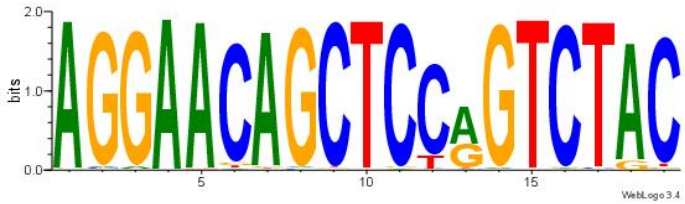

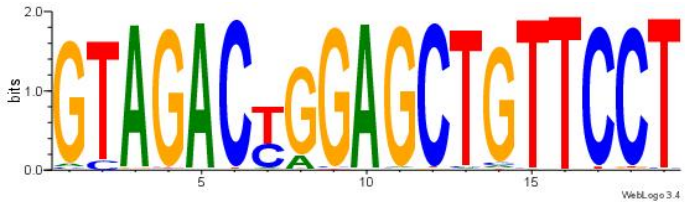

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0781967

Alignment:

```
GAGGAGGRGGAGGDGGV
-AGGAAGAAA-------
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

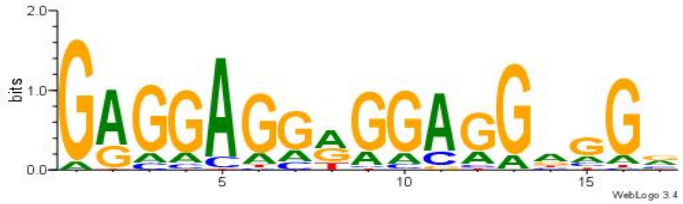

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

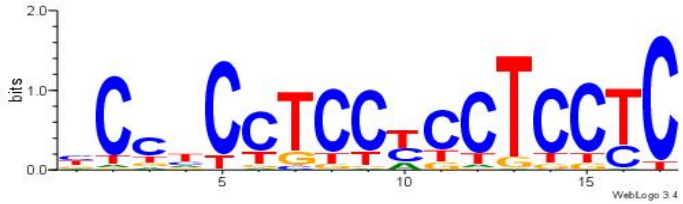

Dataset #:	1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0785643

Alignment:

```
TCAGGAGTGAAGCTGC
--AGGAAGAAA-----
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

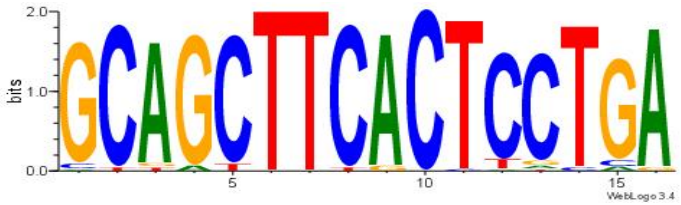

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

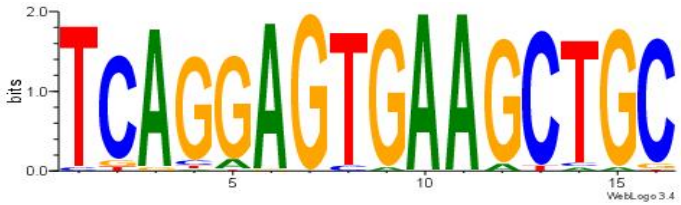

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9

Similarity score: 0.0787319

Alignment:
ATCTGACAGGAGGYRGAGCT
-------AGGAAGAAA----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

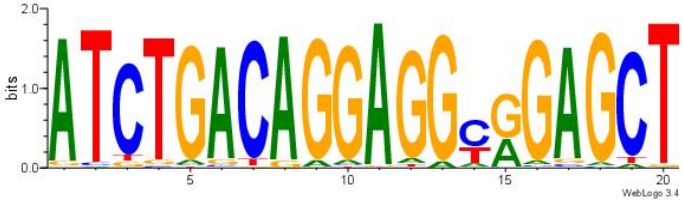

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

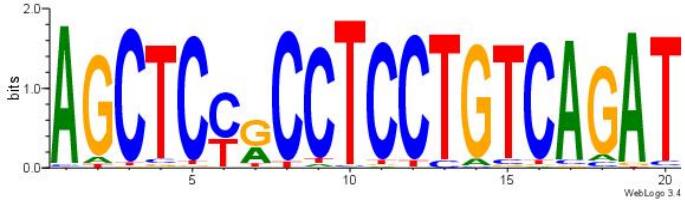

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 9
Similarity score: 0.0787361

Alignment:
TYTGTCMTTTTGTGACTGGC
--------TTTCTTCCT---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

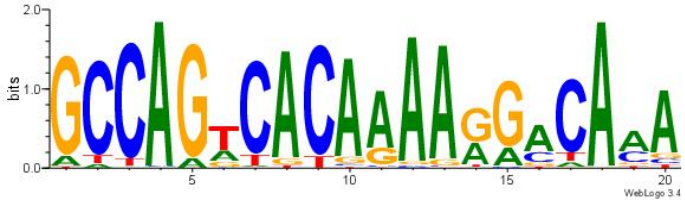

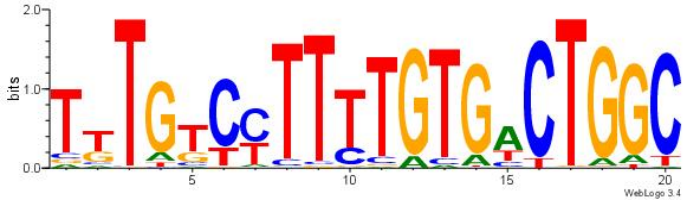

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0795154

Alignment:

```
GCCAGGCAGAGRGKCTCCT
---AGGAAGAAA-------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

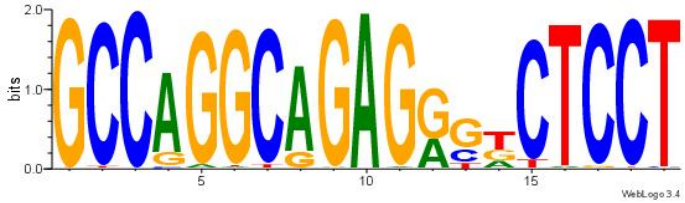

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

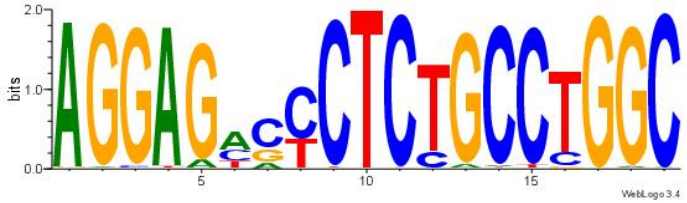

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.079559

Alignment:

```
GGATTTMKGACTTGCATGGG
---TTTCTTCCT--------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

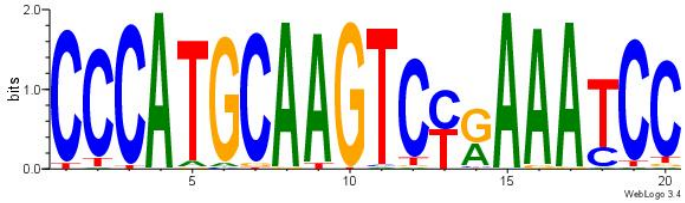

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

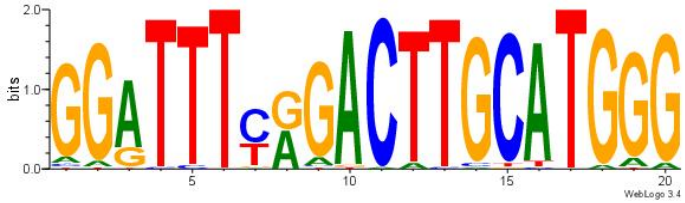

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0805127

Alignment:
GGAGGTGTGGAGGGAGAGGC
----------AGGAAGAAA-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

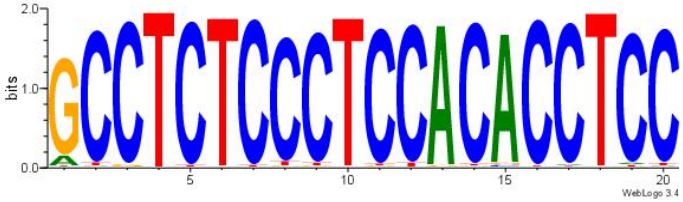

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

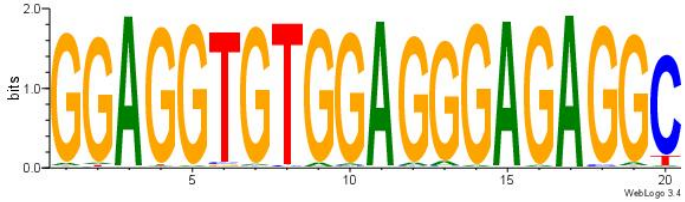

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 9
Similarity score: 0.0808674

Alignment:
ACACATCACAAAGCAGTTTC
-------AGGAAGAAA----

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

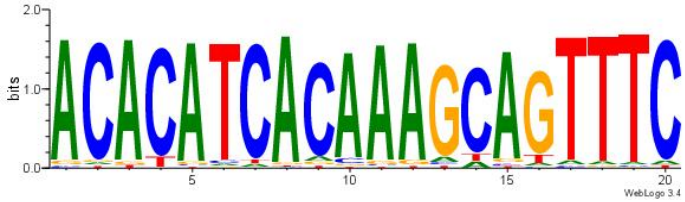

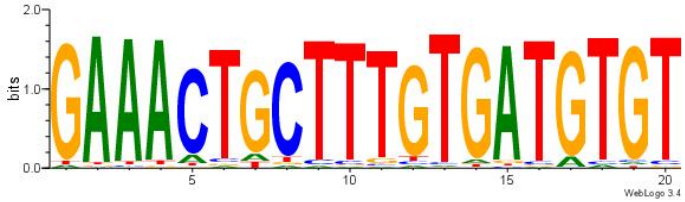

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0811428

Alignment:

```
CTAGACATAAAGGTTCTCCA
--AGGAAGAAA---------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

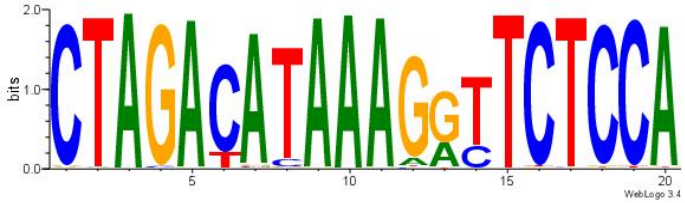

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

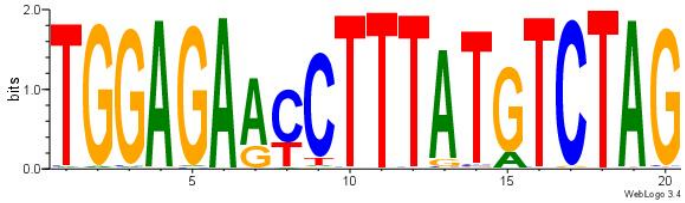

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0814887

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
---------TTTCTTCCT--
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

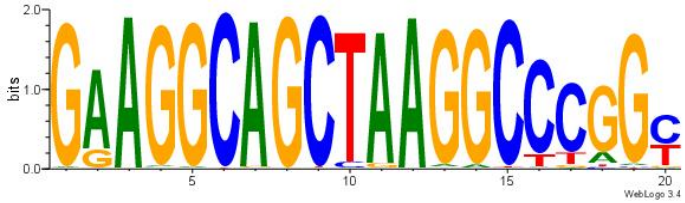

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

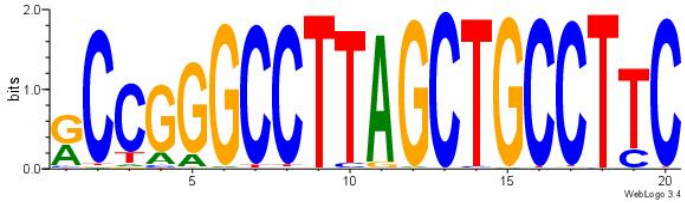

Dataset #:	1
Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9

Similarity score: 0.0821089

Alignment:
GAGAACGTAG
-AGGAAGAAA

Original motif Consensus sequence: CTACGTTCTC

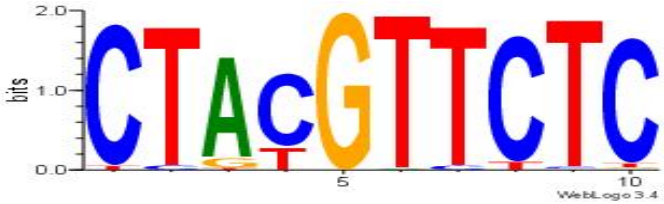

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #: 1
Motif ID: 339
Motif name: Motif 339
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0824167

Alignment:
GCAGGAGGTGAG
--AGGAAGAAA-

Original motif Consensus sequence: CTCACCTCCTGC

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

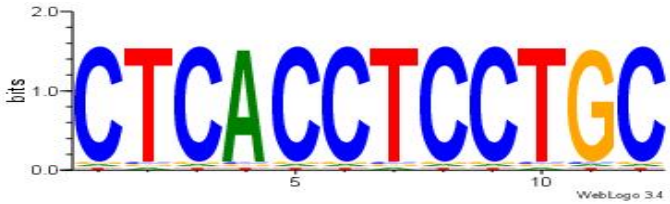

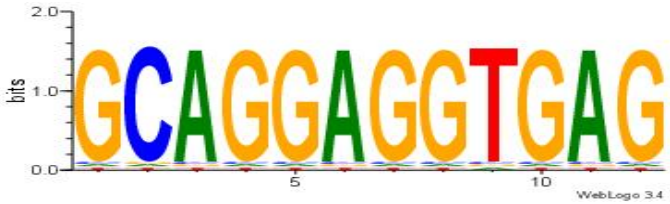

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0827026

Alignment:

```
TGTTATGCCTGAAAGT
-TTTCTTCCT------
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

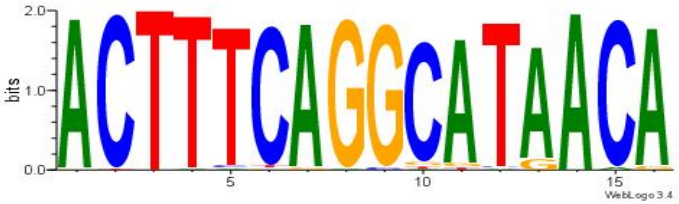

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

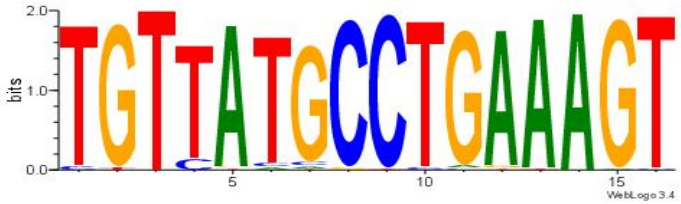

Dataset #:	1

Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0831523

Alignment:

```
AGGTATTTCTCCCACC
-----TTTCTTCCT--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

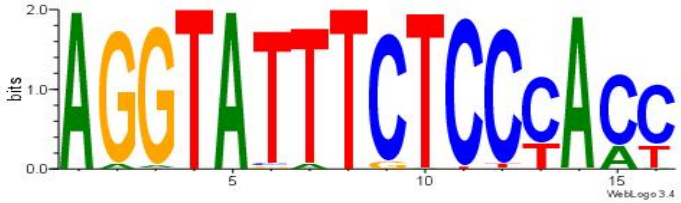

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

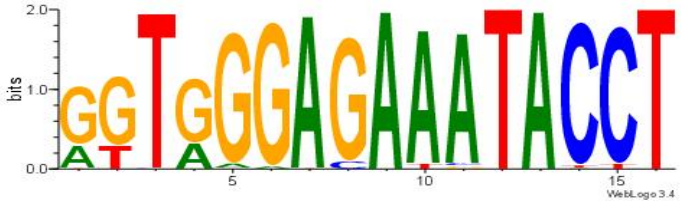

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0834171

Alignment:
AAGACGGGTGATTTCTG
-------TTTCTTCCT-

Original motif Consensus sequence: CAGAAATCACCCGTCTT

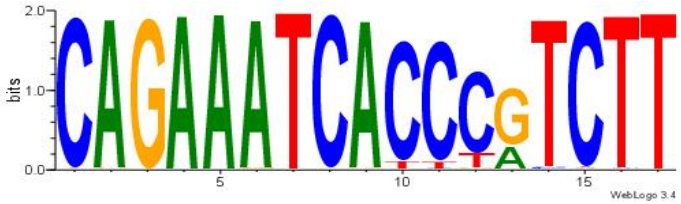

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

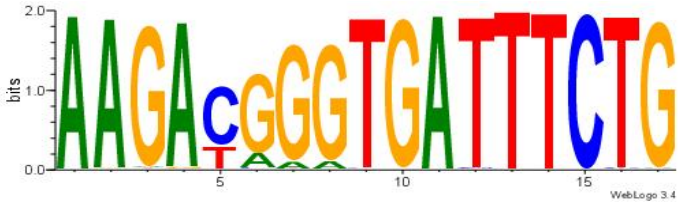

Dataset #: 1
Motif ID: 216
Motif name: Motif 216
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.0848431

Alignment:
GGTGATTTCTG
-TTTCTTCCT-

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

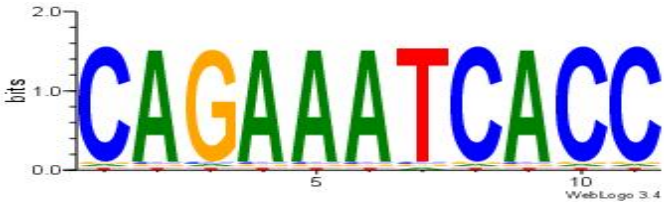

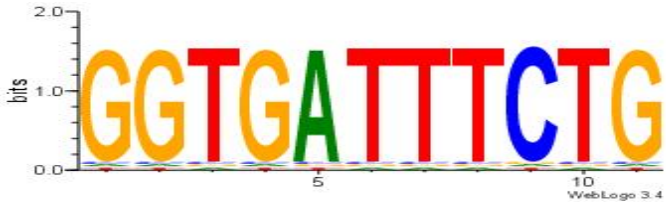

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0854953

Alignment:

```
AGAAATCGAGCRCAGCGCCG
AGGAAGAAA-----------
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

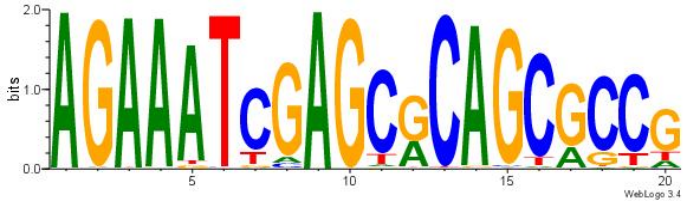

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

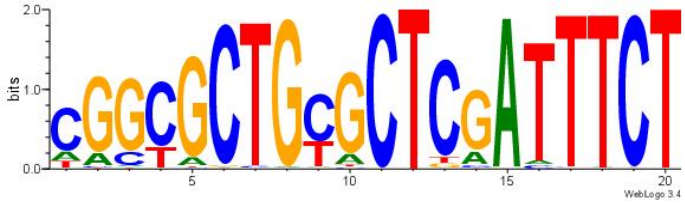

Dataset #: 1

Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0856205

Alignment:

```
CGGAAGTGACGT
AGGAAGAAA---
```

Original motif Consensus sequence: CGGAAGTGACGT

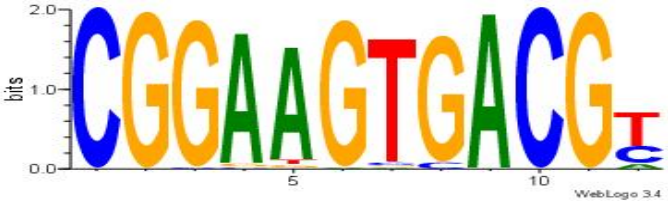

Reverse complement motif Consensus sequence: ACGTCACTTCCG

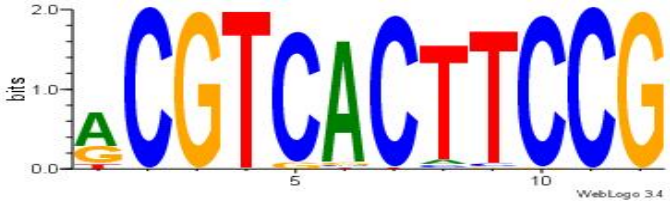

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0858639

Alignment:
GGTGCCCCTCTGGGACRAA
----------AGGAAGAAA

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

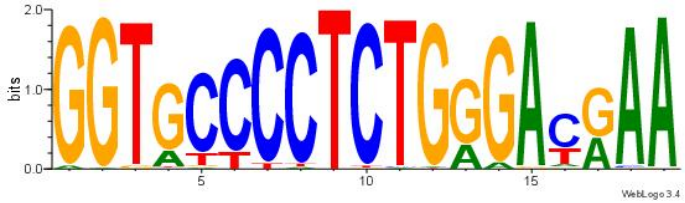

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

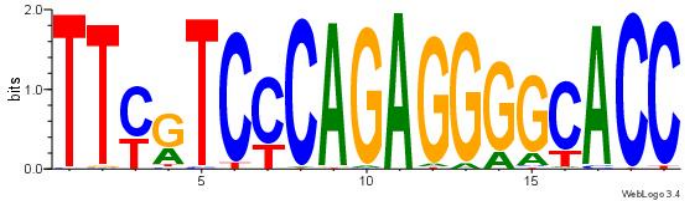

Dataset #:	1
Motif ID:	268
Motif name:	Motif 268
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0868667

Alignment:
GGTCTCACTAT
TTTCTTCCT--

Original motif Consensus sequence: ATAGTGAGACC

Reverse complement motif Consensus sequence: GGTCTCACTAT

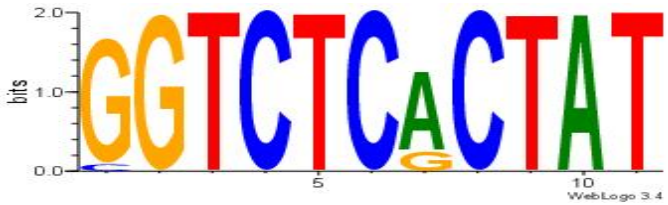

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0869176

Alignment:

```
GCGGCAGCAAGGC
-AGGAAGAAA---
```

Original motif Consensus sequence: GCCTTGCTGCCGC

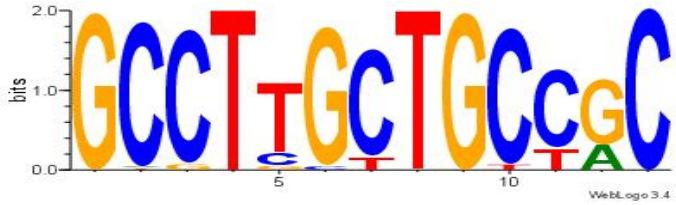

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

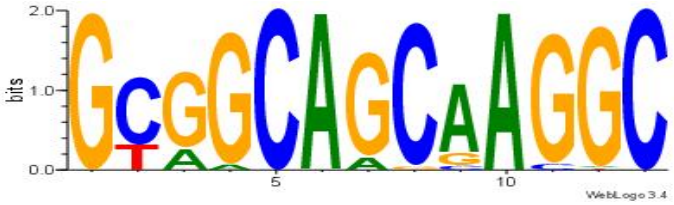

Dataset #:	1
Motif ID:	293

Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0873569

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
------TTTCTTCCT-----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

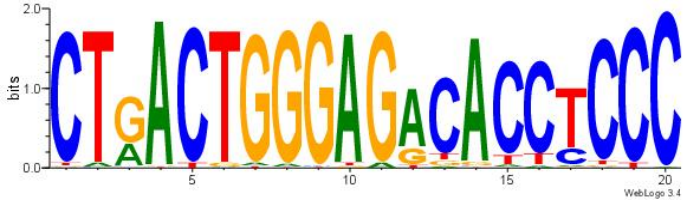

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

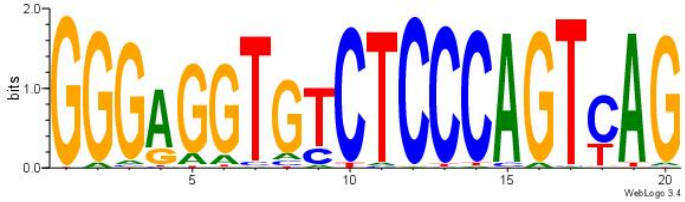

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0875183

Alignment:
CKAGTCAAAGAAA
----AGGAAGAAA

Original motif Consensus sequence: CKAGTCAAAGAAA

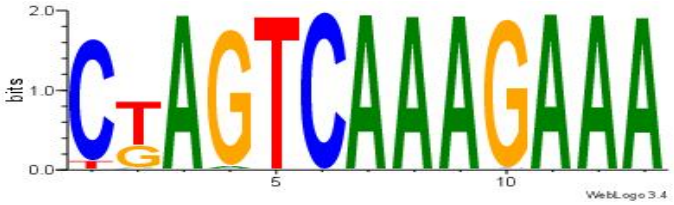

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

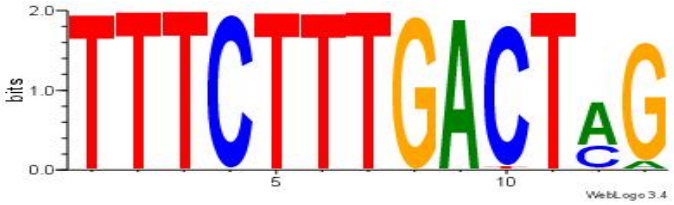

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0876319

Alignment:
CTGTTTGCCTGGGTATCA
-TTTCTTCCT--------

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

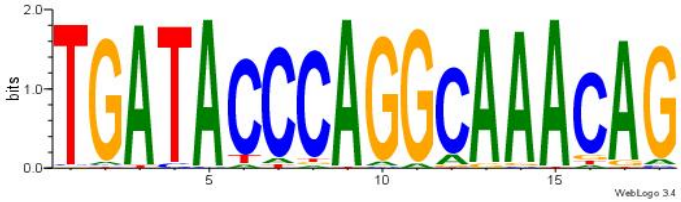

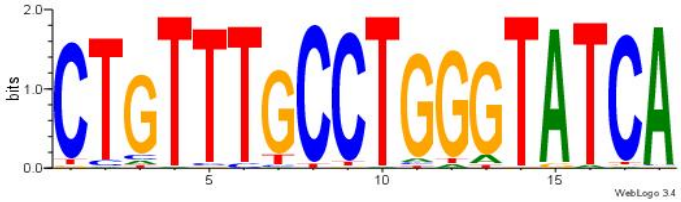

Dataset #: 1 **Motif ID: 54** **Motif name: Motif 54**

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

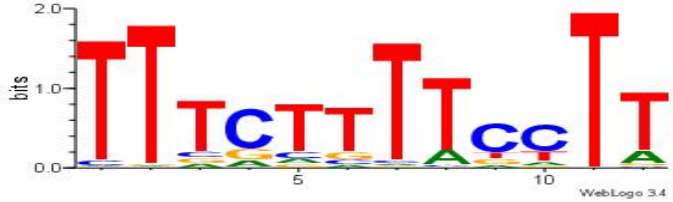

Best Matches for Significant Motif ID 54 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0346455

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
--------AAGGAAAAGAAA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

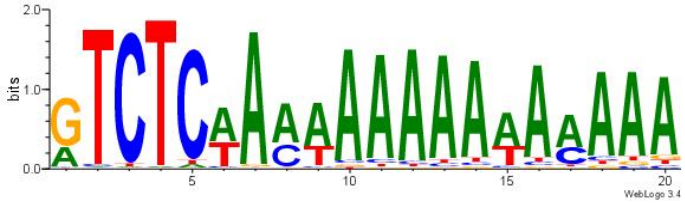

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

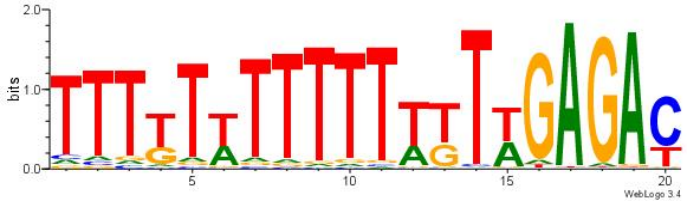

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0458962

Alignment:

```
CAGTCTGTGTCTTTTAATT
-------TTTCTTTTCCTT
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

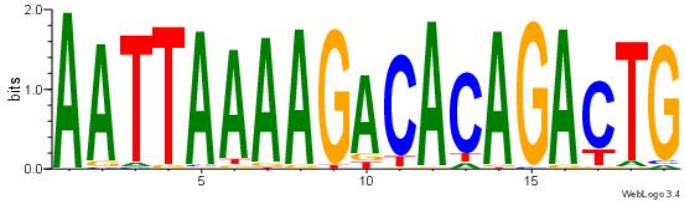

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

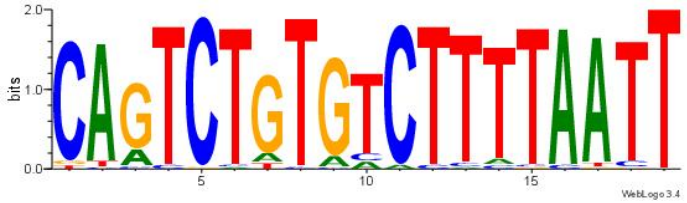

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0516933

Alignment:

```
CTCAGGAATGGAAAACC
--AAGGAAAAGAAA---
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

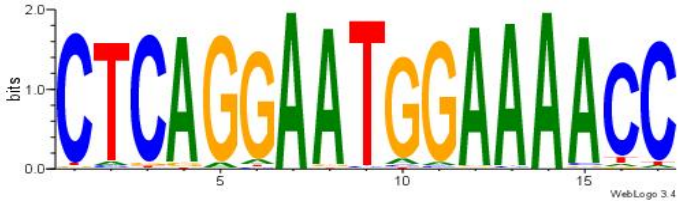

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

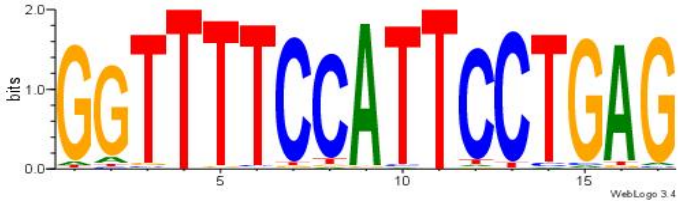

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 12
Similarity score: 0.052923

Alignment:
TTTCTTTGACTRG
TTTCTTTTCCTT-

Original motif Consensus sequence: CKAGTCAAAGAAA

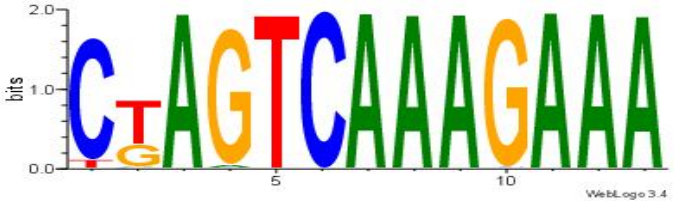

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

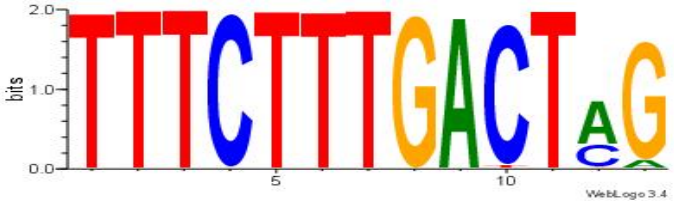

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0590252

Alignment:
AATGAKATCATGTCYTTTGC
-----TTTCTTTTCCTT---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

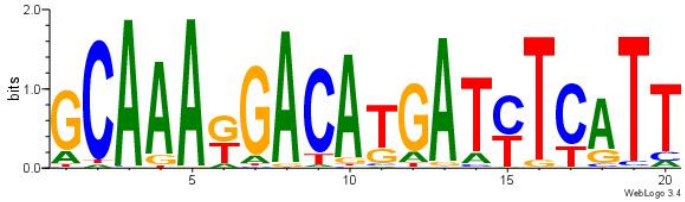

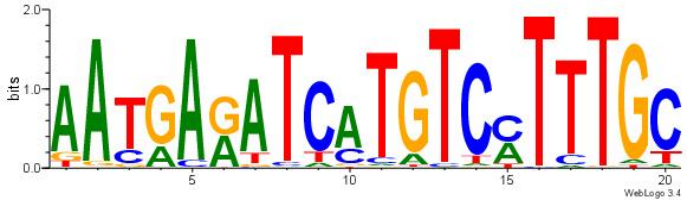

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0632058

Alignment:

```
ATCATTCTTATGCCTTTG
----TTTCTTTTCCTT--
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

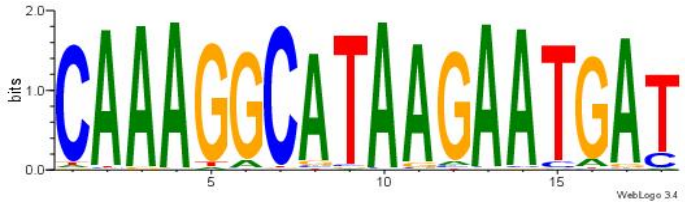

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

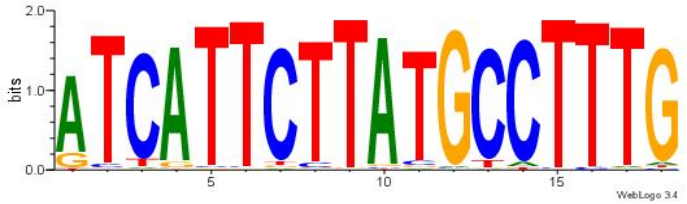

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0638645

Alignment:

```
TGAGKCAATTAAACCTCTT
-AAGGAAAAGAAA------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

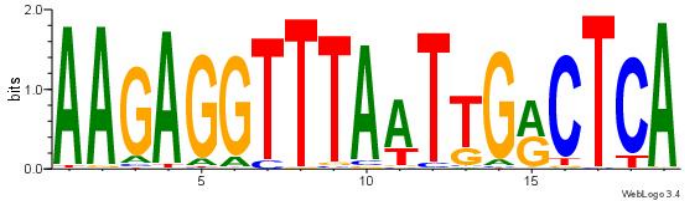

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

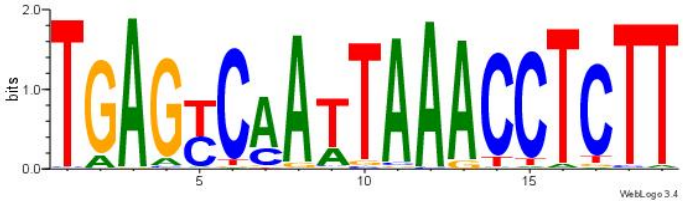

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.0653491

Alignment:
GAGAGAGAGAGAGAGAGAGA
------AAGGAAAAGAAA--

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

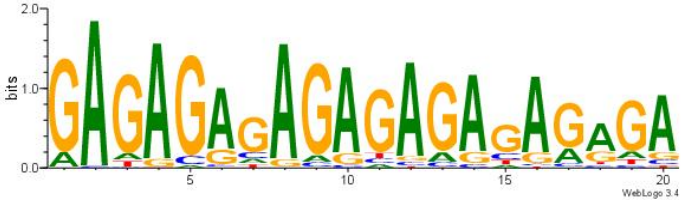

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

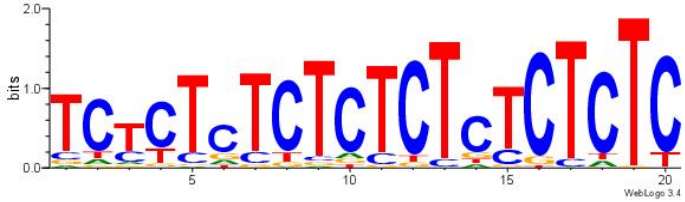

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.066443

Alignment:
TAAAAGACTACAWATTGGGT
--AAGGAAAAGAAA------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

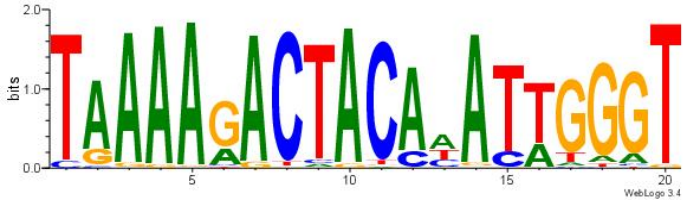

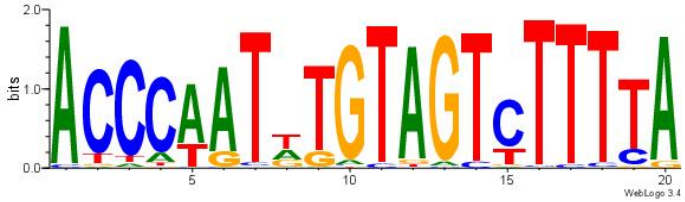

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0674271

Alignment:

```
GCCAGTCACAAAARGACAMA
------AAGGAAAAGAAA--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

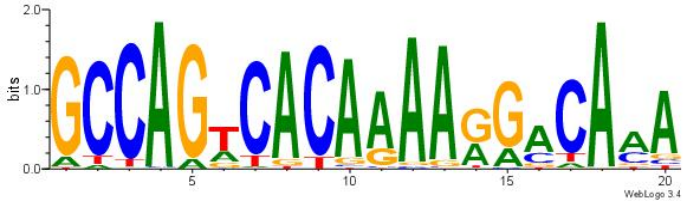

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

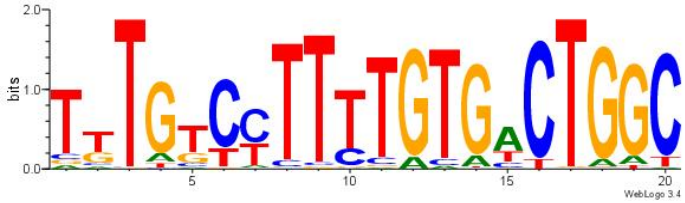

Dataset #:	1

Motif ID:	237
Motif name:	Motif 237
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0683956

Alignment:

```
TAGCCAAGGRAA
AAGGAAAAGAAA
```

Original motif Consensus sequence: TAGCCAAGGRAA

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

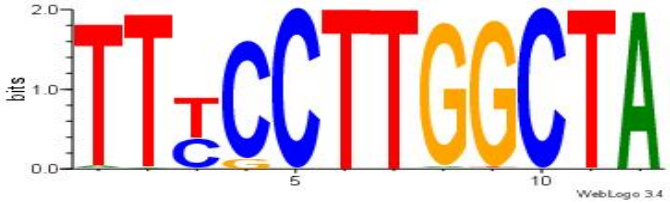

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.06888

Alignment:
GTGTCKGGAGTTTGTTCCTT
--------TTTCTTTTCCTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

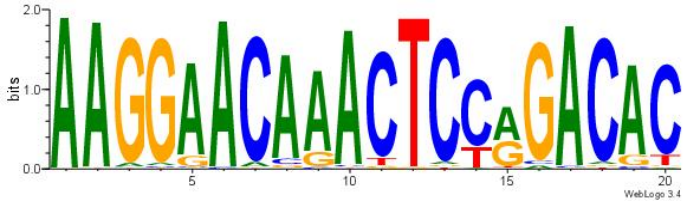

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

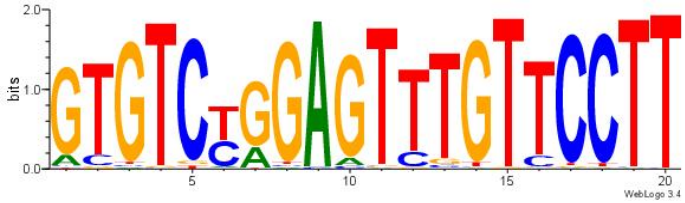

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0703656

Alignment:
TTYTTGTTGTTGTTGTT
--TTTCTTTTCCTT---

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

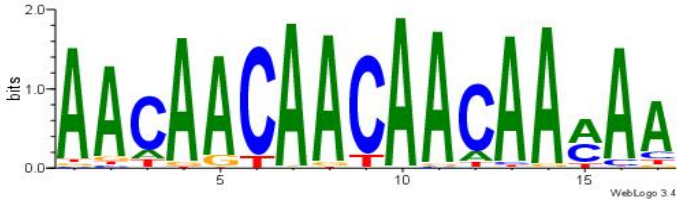

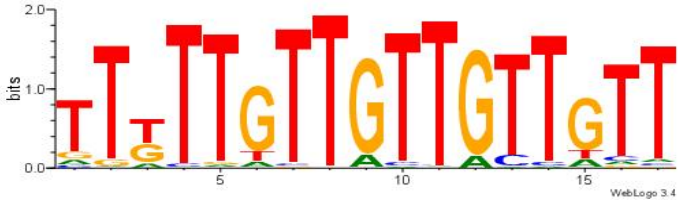

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0705893

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-------TTTCTTTTCCTT-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

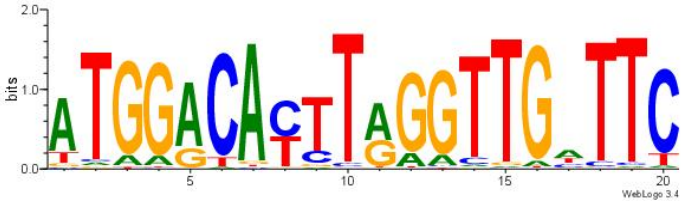

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

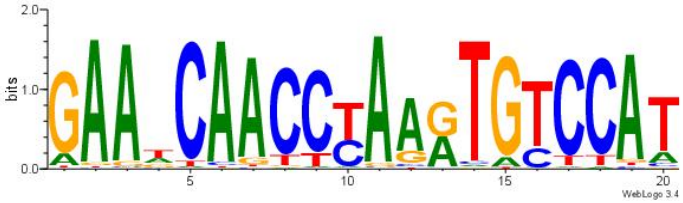

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0708402

Alignment:

```
GATACAAAATCAATGTR
-AAGGAAAAGAAA----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

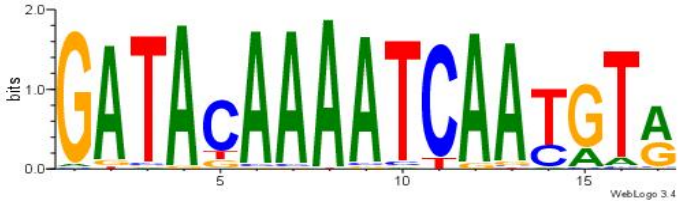

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

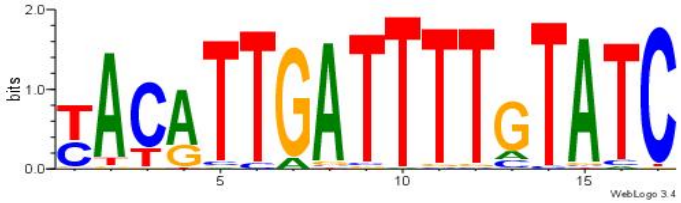

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.072752

Alignment:
CTTGCGCTTCCCRRGTGA
-----TTTCTTTTCCTT-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

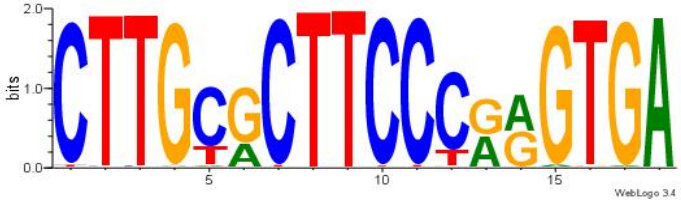

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

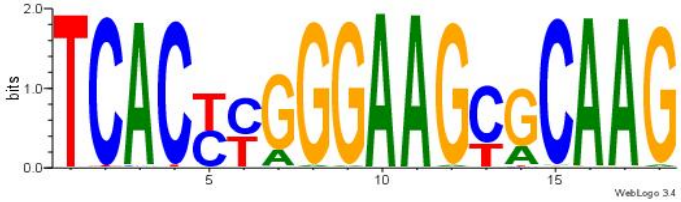

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0737441

Alignment:
TCCAAATGGGAGAAATTGGC
---AAGGAAAAGAAA-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

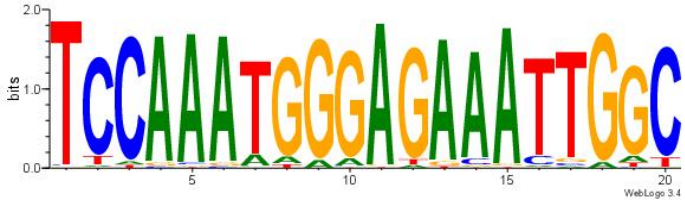

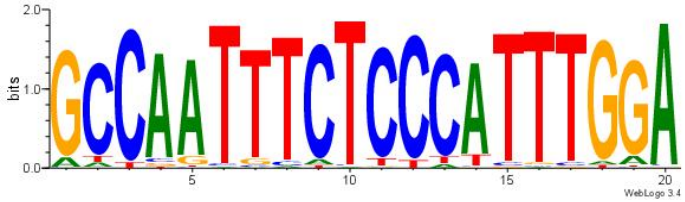

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0739118

Alignment:

```
AAATTAGGCCAATTAATAAC
----AAGGAAAAGAAA----
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

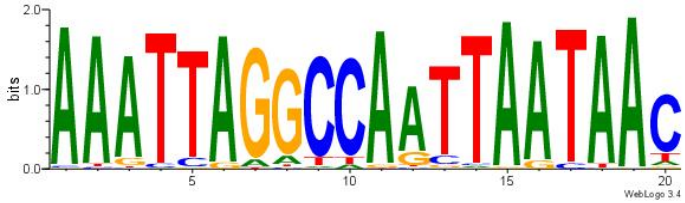

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0755648

Alignment:

```
GAGGAGGRGGAGGDGGV
---AAGGAAAAGAAA--
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

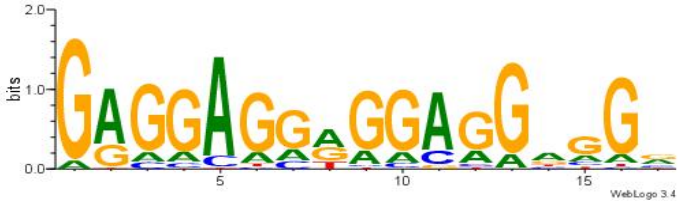

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

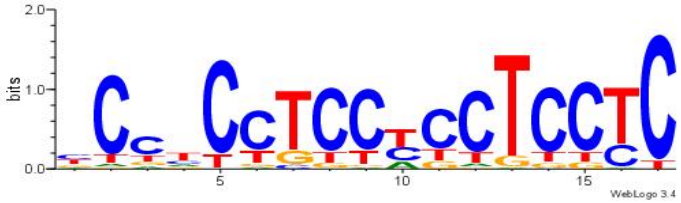

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0763319

Alignment:
GGTCAGGATCATCAATAT
---AAGGAAAAGAAA---

Original motif Consensus sequence: ATATTGATGATCCTGACC

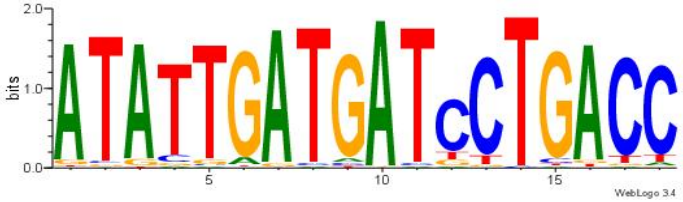

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

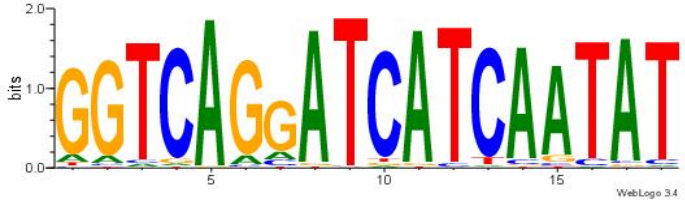

Dataset #: 1
Motif ID: 274
Motif name: Motif 274
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0777119

Alignment:
TTTCCTTGACCAG
TTTCTTTTCCTT-

Original motif Consensus sequence: CTGGTCAAGGAAA

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

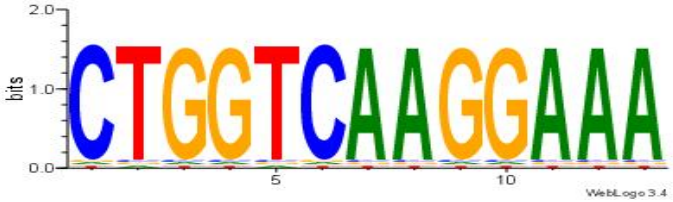

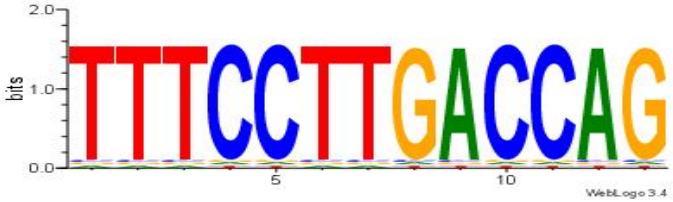

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0794336

Alignment:

```
GAAATTGACTTCCTCCT
---TTTCTTTTCCTT--
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

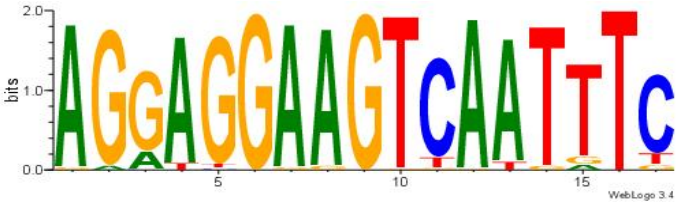

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

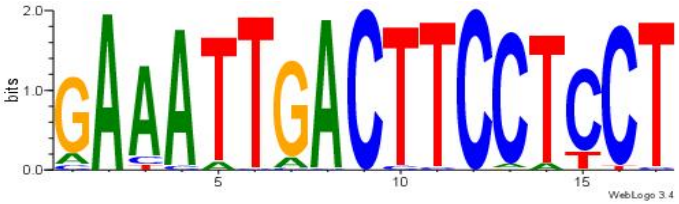

Dataset #:	1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0797186

Alignment:

```
AGAAAGGCATGTGAAAA
---AAGGAAAAGAAA--
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

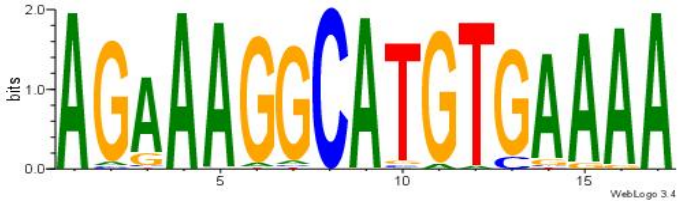

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

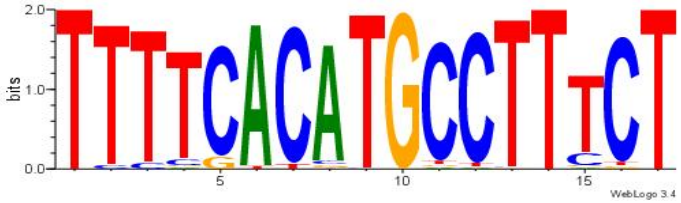

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0797785

Alignment:
ATTGGTGTATTTACAATCCC
-----TTTCTTTTCCTT---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

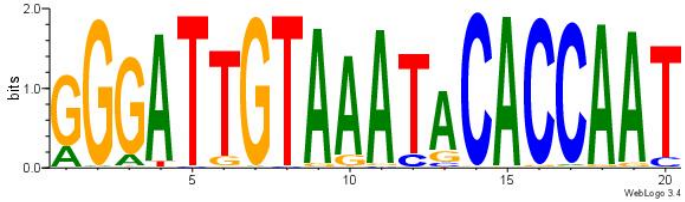

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0798774

Alignment:
ATAGGAATGCTTGTGATTTT
------TTTCTTTTCCTT--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

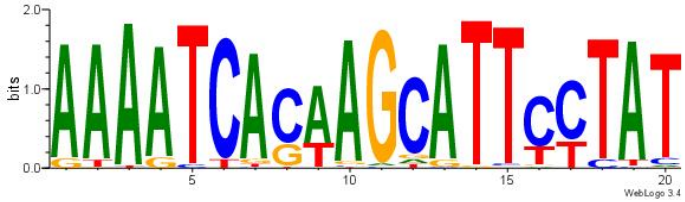

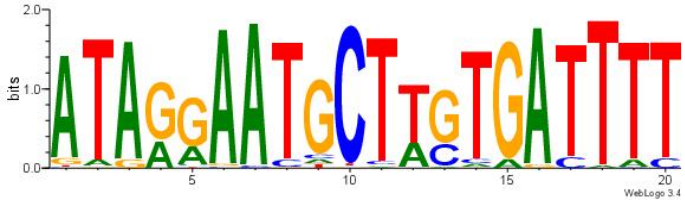

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0800997

Alignment:

```
KKCACCTTGATCTTGGACTT
--------TTTCTTTTCCTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

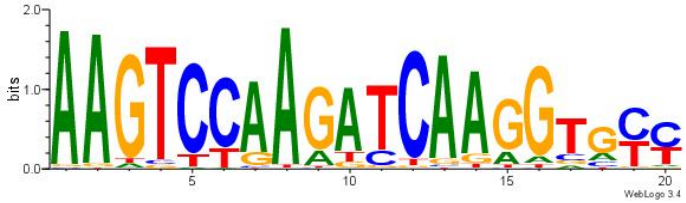

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

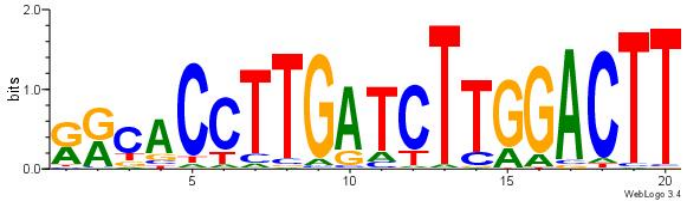

Dataset #:	1

Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0801126

Alignment:

```
TAATGGGTACAAA
-AAGGAAAAGAAA
```

Original motif Consensus sequence: TAATGGGTACAAA

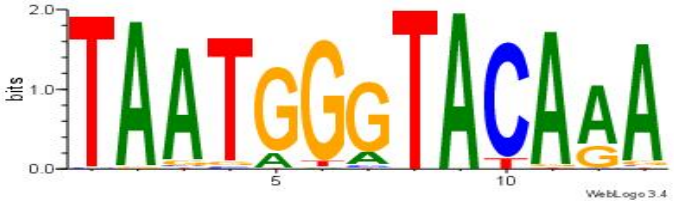

Reverse complement motif Consensus sequence: TTTGTACCCATTA

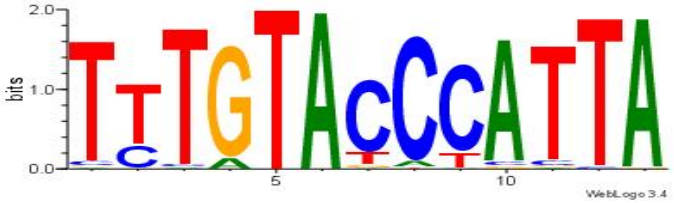

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.080142

Alignment:
TGTGTGTGTGTKTGTGTGT
------TTTCTTTTCCTT-

Original motif Consensus sequence: ACACACAYACACACACACA

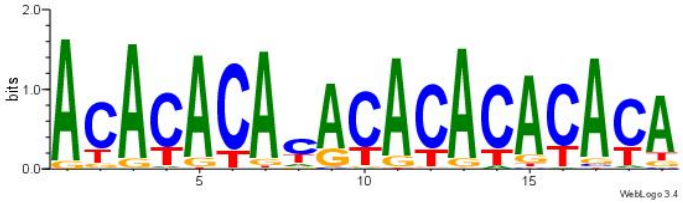

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

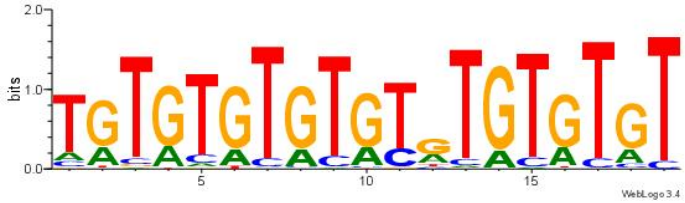

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0807552

Alignment:
CAGGTGGTKTTTGGTTACAT
----TTTCTTTTCCTT----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

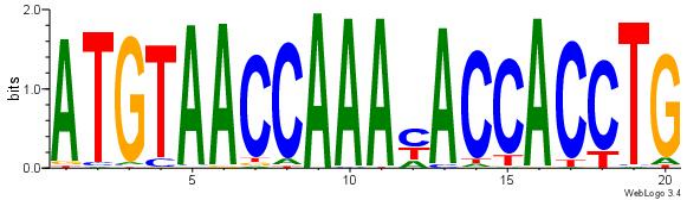

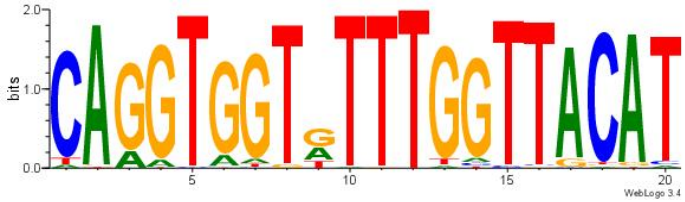

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.080799

Alignment:

```
KGAGAACAGTAGGG
AAGGAAAAGAAA--
```

Original motif Consensus sequence: CCCTACTGTTCTCY

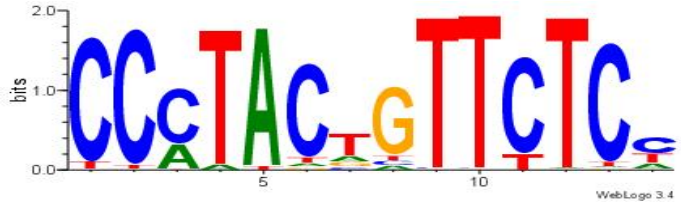

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

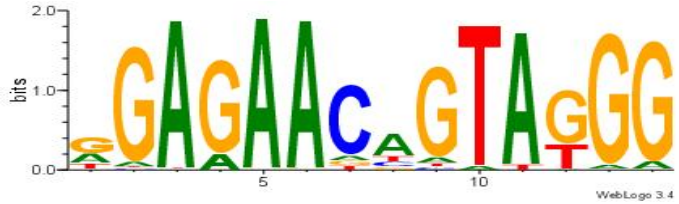

Dataset #:	1
Motif ID:	55

Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0808138

Alignment:

```
ATGGAATAYTATTCAGCCAT
AAGGAAAAGAAA--------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

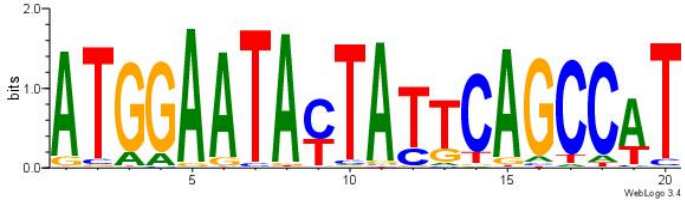

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

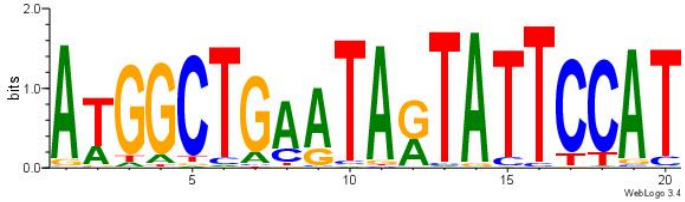

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0834796

Alignment:
GTTGTGAGGATTAAATGAG
TTTCTTTTCCTT-------

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

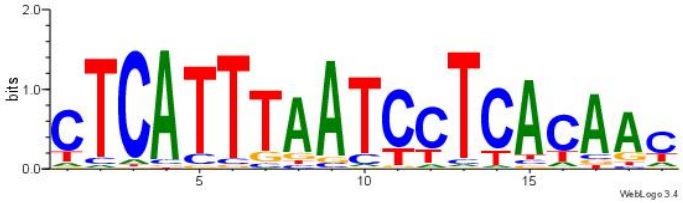

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

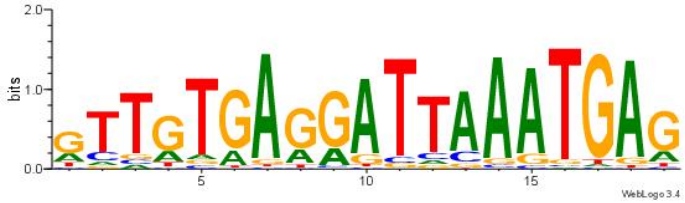

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0835801

Alignment:
GACAGGAGATTAACACTGAG
--AAGGAAAAGAAA------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

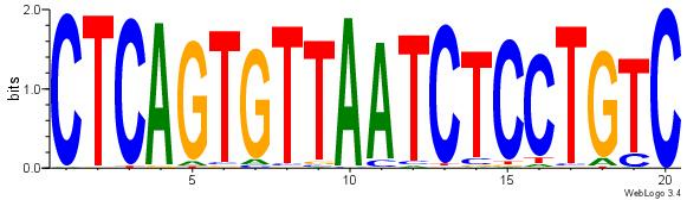

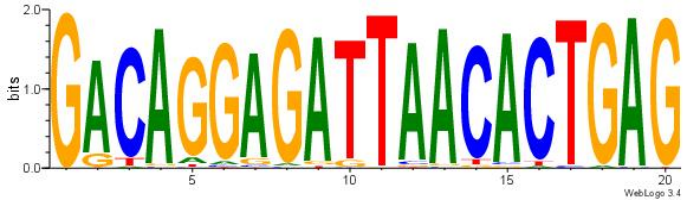

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0840188

Alignment:

```
AGGTTTGTTACATAGGTAWA
--TTTCTTTTCCTT------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

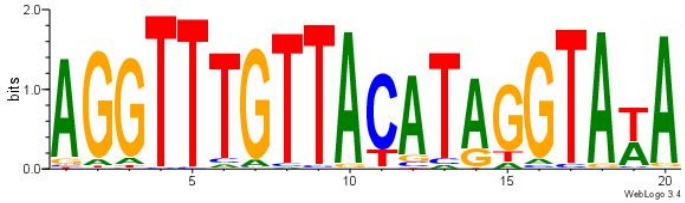

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

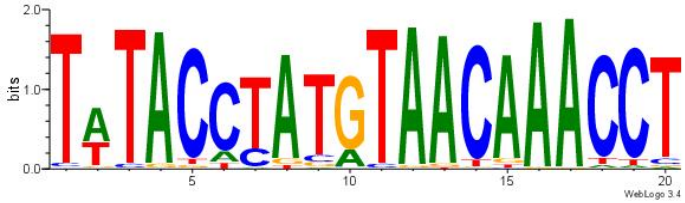

Dataset #:	1

Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0840446

Alignment:

```
TAGGGTAGTCAAR
-AAGGAAAAGAAA
```

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

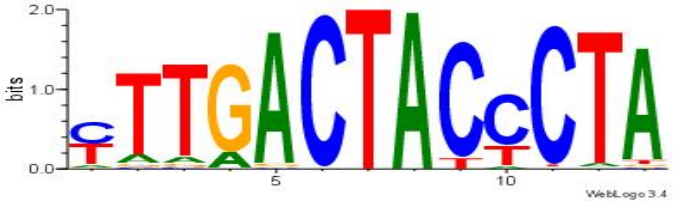

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0841593

Alignment:
CCTTTGACTCCATGTC
--TTTCTTTTCCTT--

Original motif Consensus sequence: GACATGGAGTCAAAGG

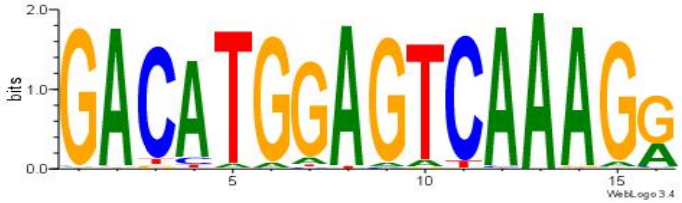

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

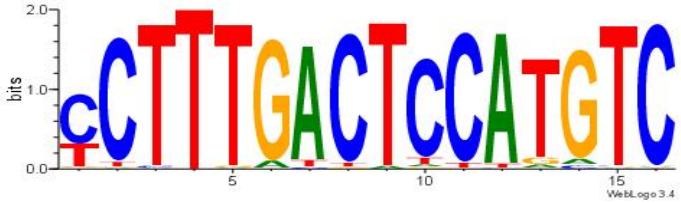

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0846139

Alignment:
AWTKKTGGTTKCCAGKGGCT
---TTTCTTTTCCTT-----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

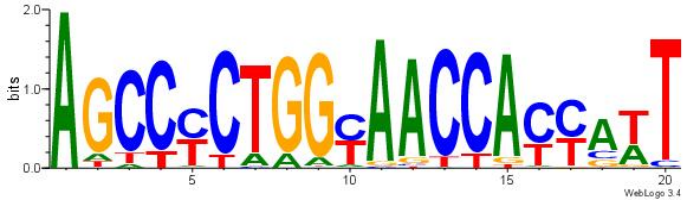

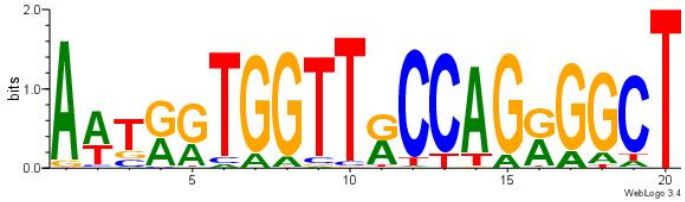

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0854333

Alignment:

```
ACACATCACAAAGCAGTTTC
AAGGAAAAGAAA--------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

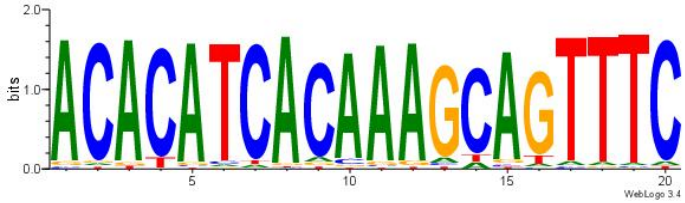

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

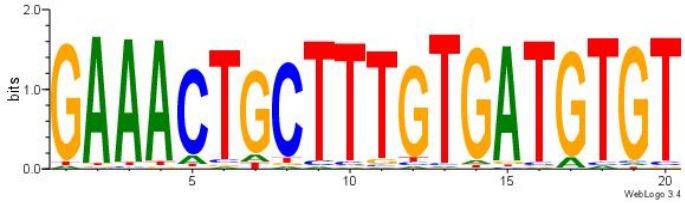

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.085512

Alignment:

```
AGTAGGTGCTCARTAAATRB
-----AAGGAAAAGAAA---
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

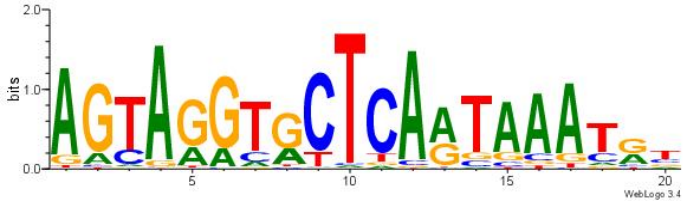

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

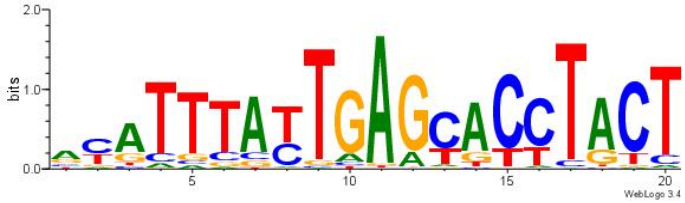

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.0855539

Alignment:
AACTGAGGCTCAGAGA
----AAGGAAAAGAAA

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

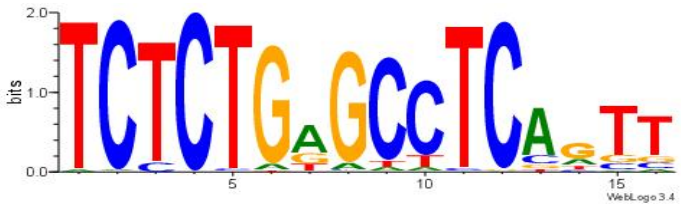

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

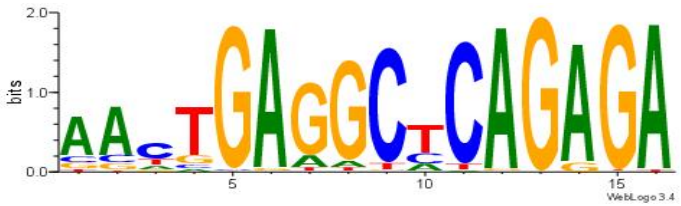

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0856422

Alignment:
CCTGCCATTGCYSAGGCTTG
-------TTTCTTTTCCTT-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

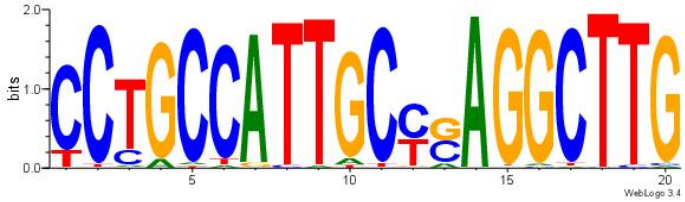

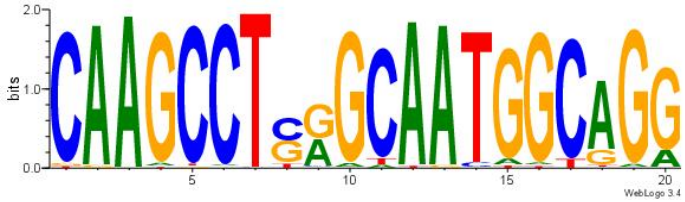

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.08626

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-AAGGAAAAGAAA-------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

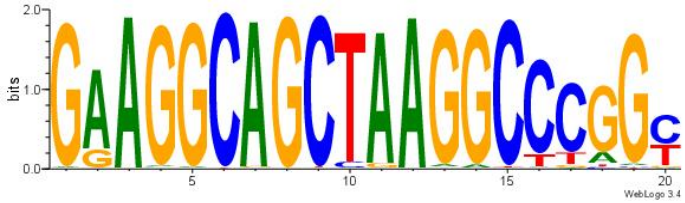

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

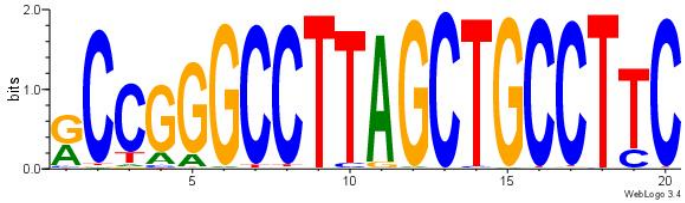

Dataset #:	1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0863268

Alignment:

```
TGTATTAGTCMMTT
--TTTCTTTTCCTT
```

Original motif Consensus sequence: AAYRGACTAATACA

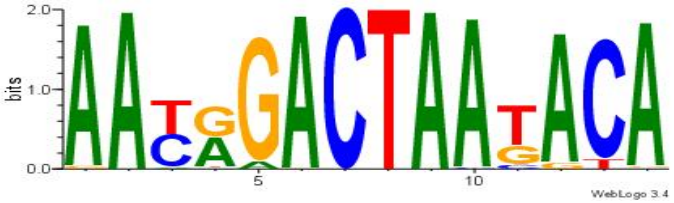

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

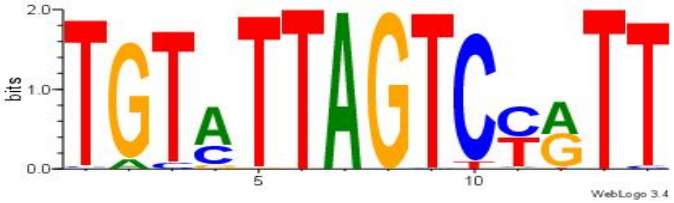

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0866789

Alignment:
ACTGTCTTCCACCTCCACAT
--TTTCTTTTCCTT------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

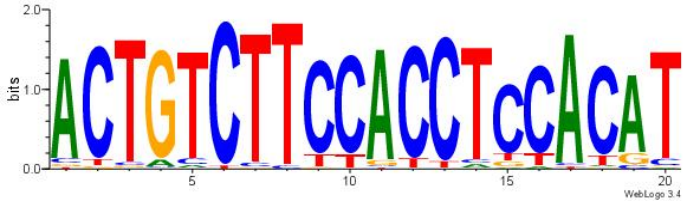

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

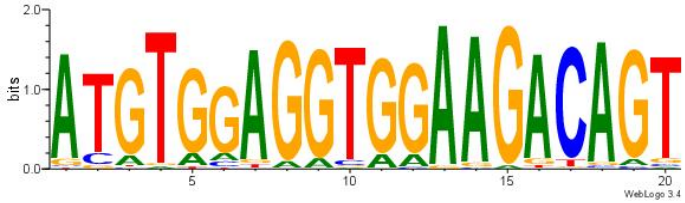

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0872576

Alignment:
GTGTCCCCTTCCTCCC
--TTTCTTTTCCTT--

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

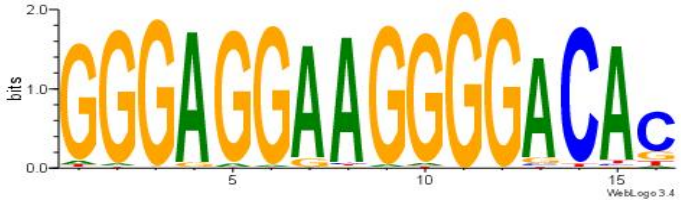

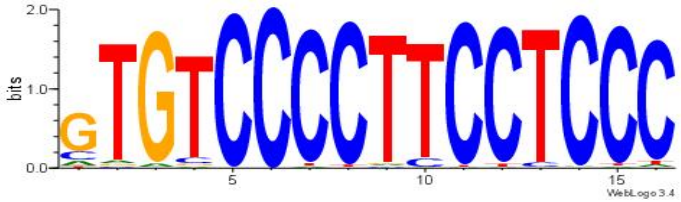

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0873559

Alignment:

```
CAACATGGATGRARCTGGAG
--------AAGGAAAAGAAA
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

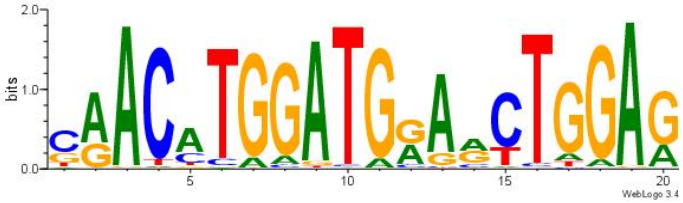

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

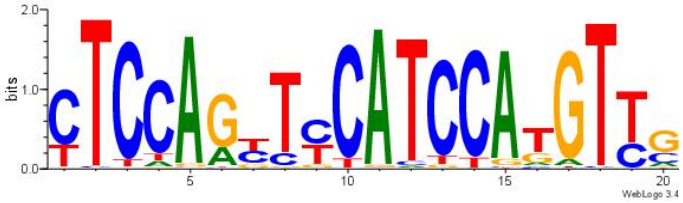

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0881186

Alignment:

```
GCCGTTTKTTAAGCCCGTY
---TTTCTTTTCCTT----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

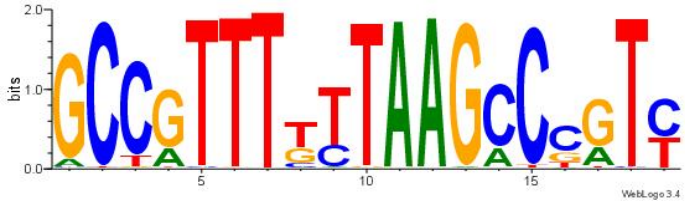

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

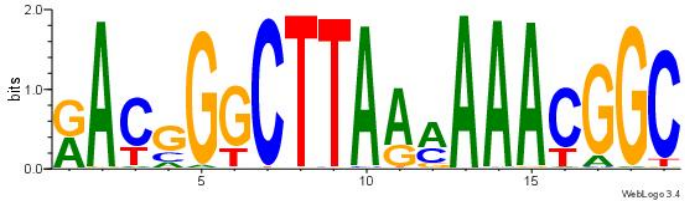

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0886383

Alignment:
HAGTGGKATTGCTGGATCAT
--TTTCTTTTCCTT------

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

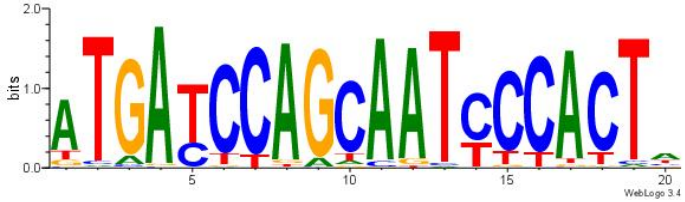

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

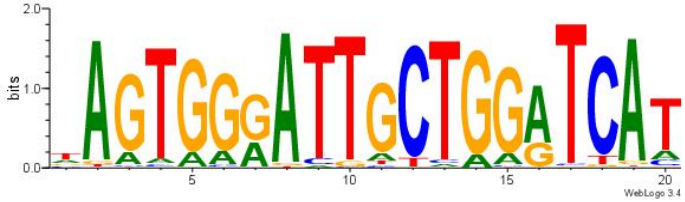

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.0889422

Alignment:
MGTCTMKCTCTGTKGCCCAG
--TTTCTTTTCCTT------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

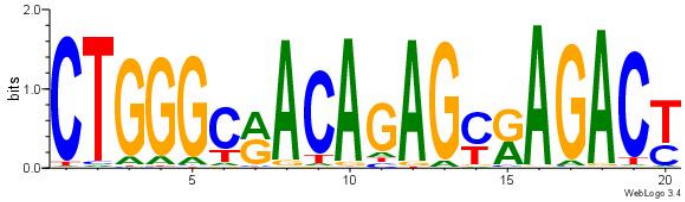

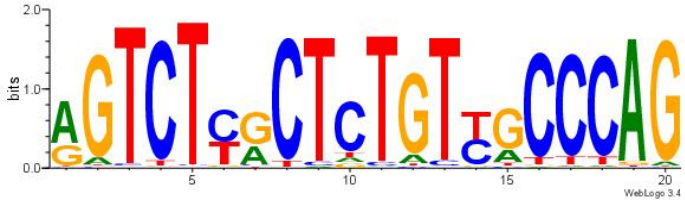

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0889955

Alignment:

```
CACCAGGAGATTATATCCCR
---AAGGAAAAGAAA-----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

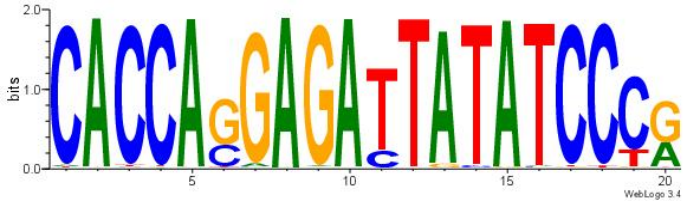

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

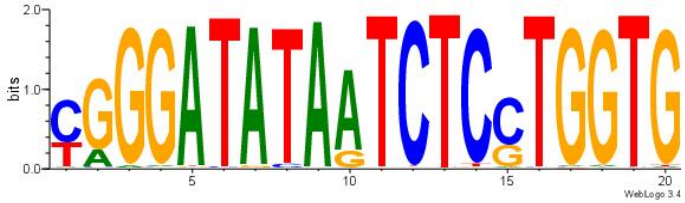

Dataset #: 1 Motif ID: 90 Motif name: Motif 90

Original motif Consensus sequence: CCCCATTGCY

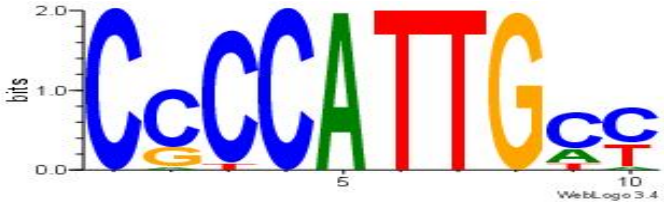

Reverse complement motif Consensus sequence: KGCAATGGGG

Best Matches for Significant Motif ID 90 (Highest to Lowest)

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0254376

Alignment:

```
ATACAATGGGGGTACAGRC
-KGCAATGGGG--------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

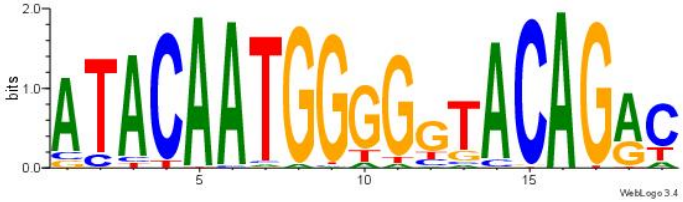

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

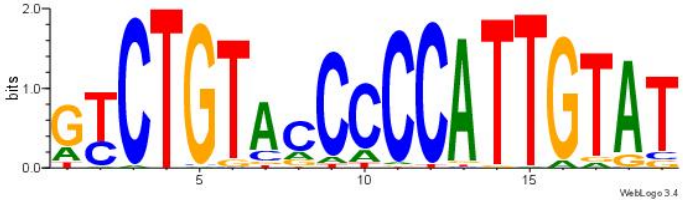

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0348826

Alignment:

```
CCTGCCATTGCYSAGGCTTG
--CCCCATTGCY--------
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

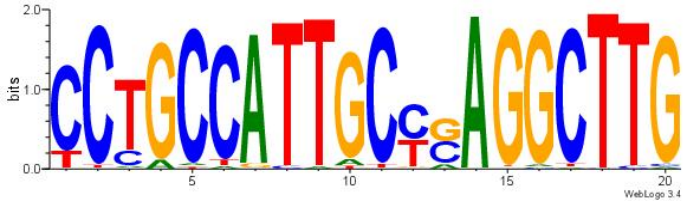

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

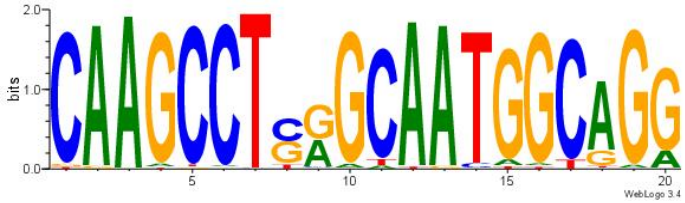

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 10
Similarity score: 0.0547148

Alignment:
GCCTCACTGCCRC
-CCCCATTGCY--

Original motif Consensus sequence: GCCTCACTGCCRC

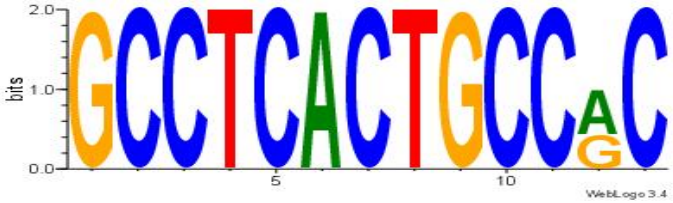

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

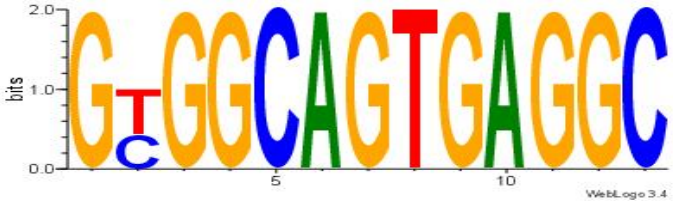

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0556877

Alignment:
TCKMGCCACTGCACTCCAGC
-------CCCCATTGCY---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

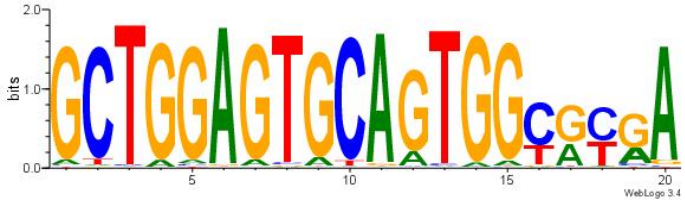

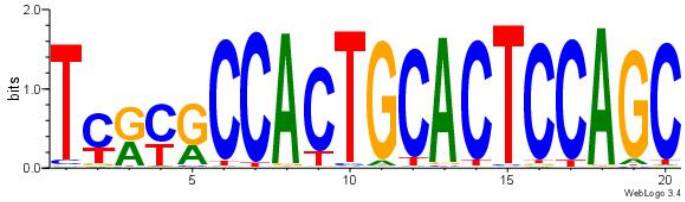

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0564416

Alignment:

```
CCCTCACTGCCCGGGG
-CCCCATTGCY-----
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

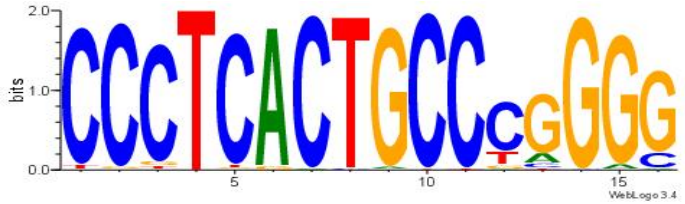

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

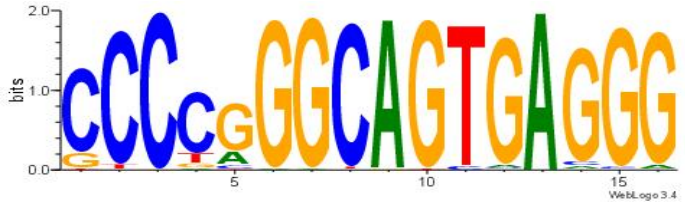

Dataset #: 1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0604538

Alignment:

```
CCGCTGCACTGTGGGAGCCC
----KGCAATGGGG------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

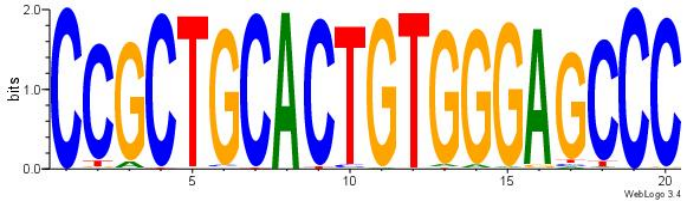

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

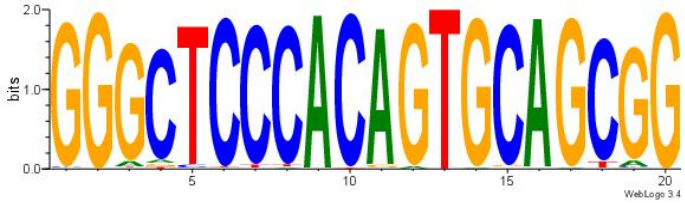

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.0618316

Alignment:
AACAACASACACTGGGGCCT
-------KGCAATGGGG---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

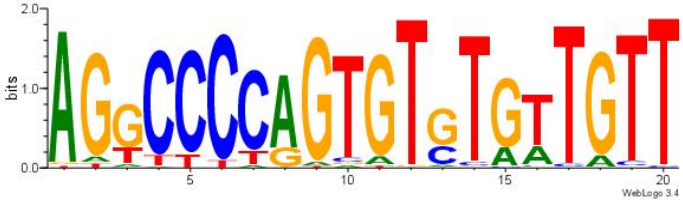

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

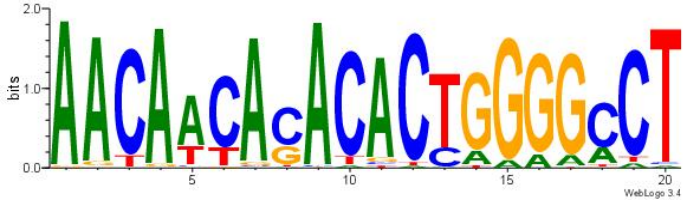

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0629809

Alignment:
AGTTGTAATTGGGAGACTT
---KGCAATGGGG------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

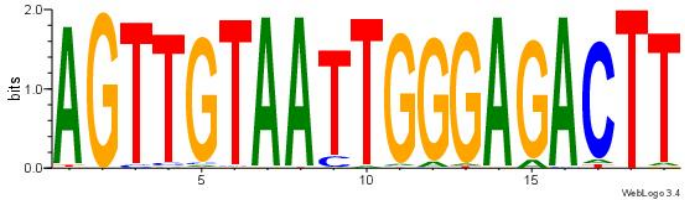

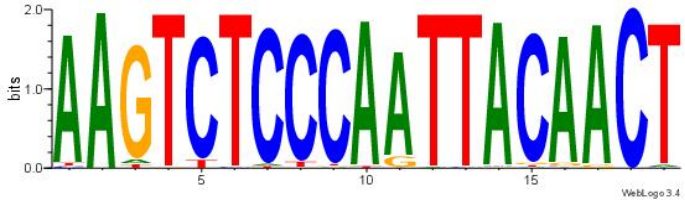

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0661287

Alignment:

```
CMCAGTTCACAATAGGGTT
-------KGCAATGGGG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

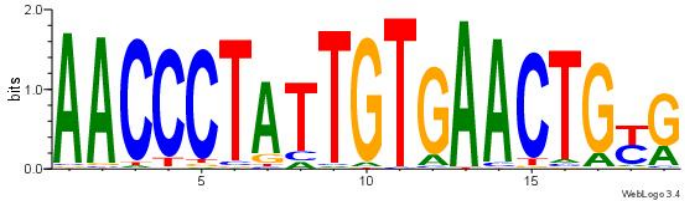

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

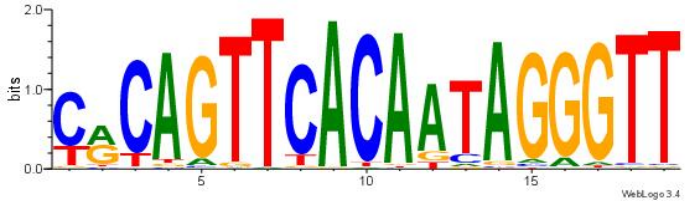

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0688841

Alignment:

```
CGCCCATCGTCTGGGATGT
--------CCCCATTGCY-
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

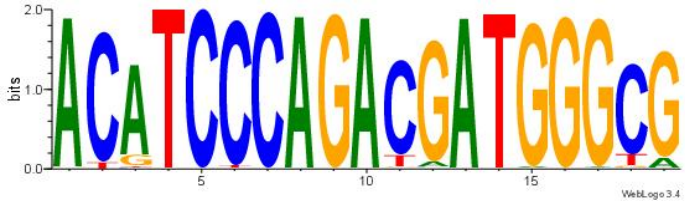

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

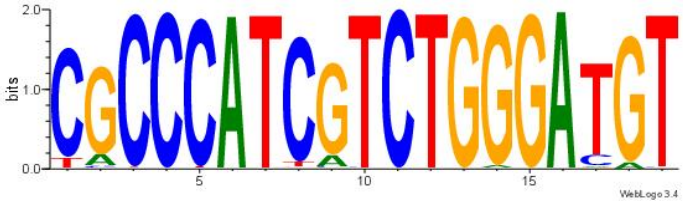

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0690788

Alignment:
GTCCCATCGACCACCCAAG
-CCCCATTGCY--------

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

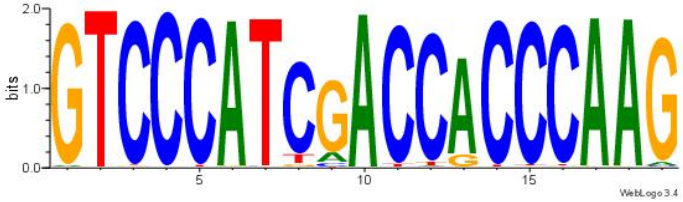

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

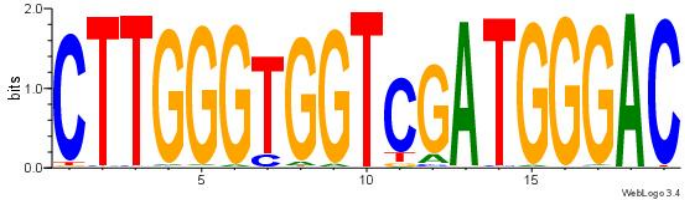

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 10
Similarity score: 0.0691403

Alignment:
TGHCCTGCKCCCACTGTCT
-CCCCATTGCY--------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

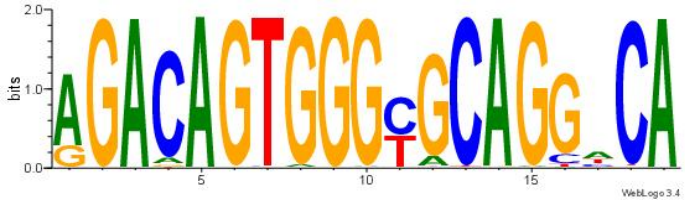

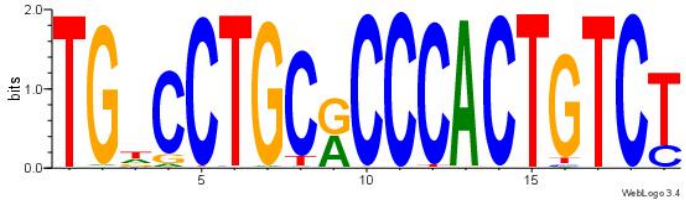

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0704256

Alignment:

```
AGTGACCCGATTTTCCAGGT
-----CCCCATTGCY-----
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

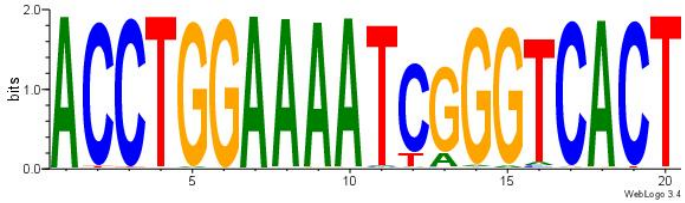

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

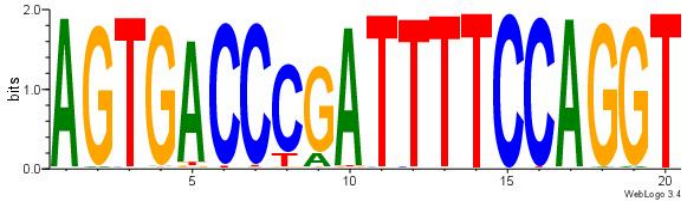

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0706294

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
----------CCCCATTGCY
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

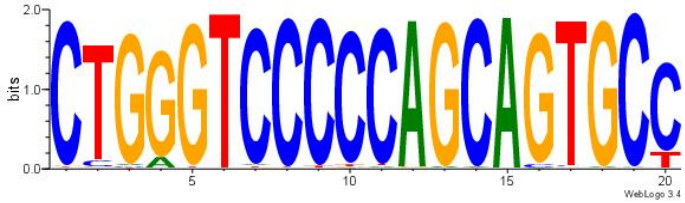

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

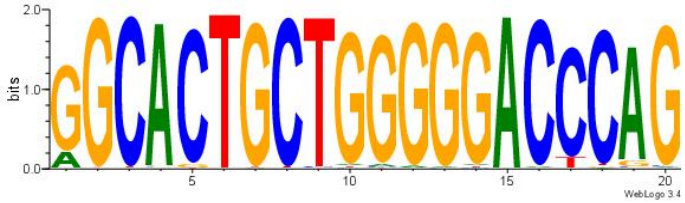

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0707677

Alignment:
GAAAAGCGCAGTATTMGGG
KGCAATGGGG---------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

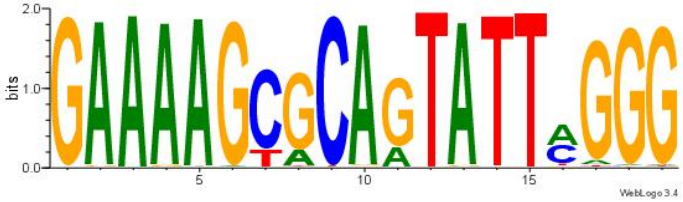

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

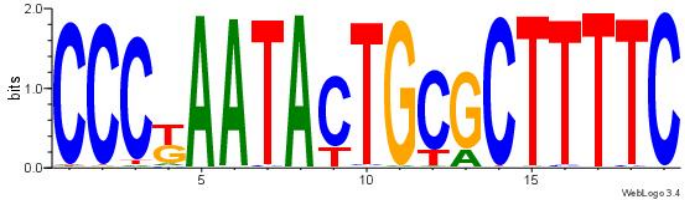

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0759651

Alignment:
HGCTCCTGTGSKCCC
--CCCCATTGCY---

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

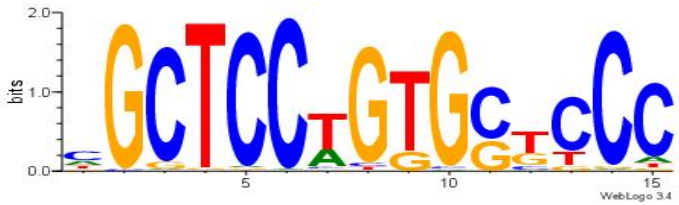

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.075982

Alignment:

```
GCAWSTGCAAAGGCCCT
-----KGCAATGGGG--
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

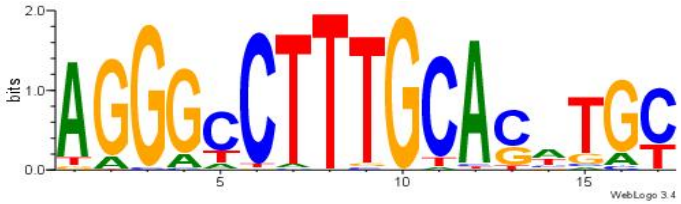

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

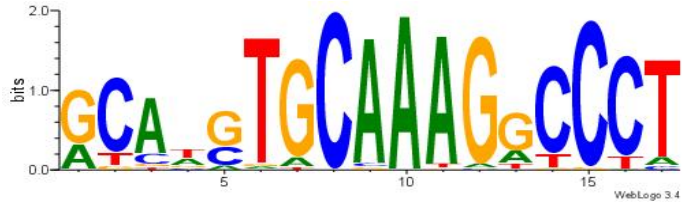

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0765804

Alignment:

```
ACTCCCTAGTGAGATGAACC
-------CCCCATTGCY---
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

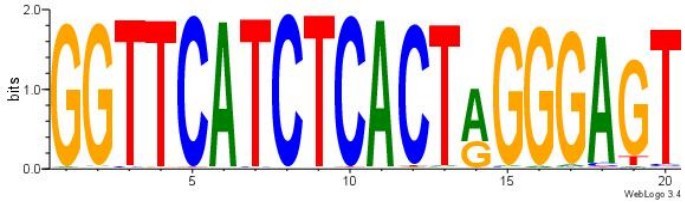

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

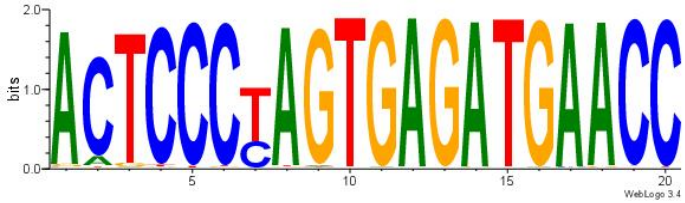

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10

Similarity score: 0.0767052

Alignment:
GGCAATGCCTCGCCCTGCTT
KGCAATGGGG----------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

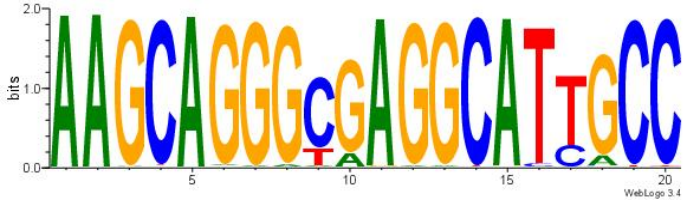

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

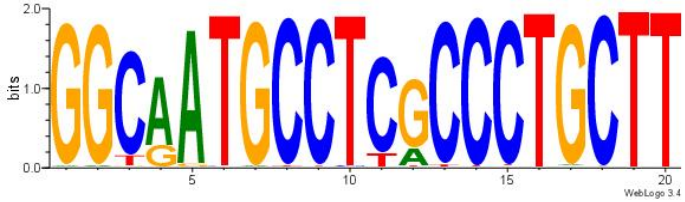

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0793913

Alignment:
AAGGGACATTKGAG
----KGCAATGGGG

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

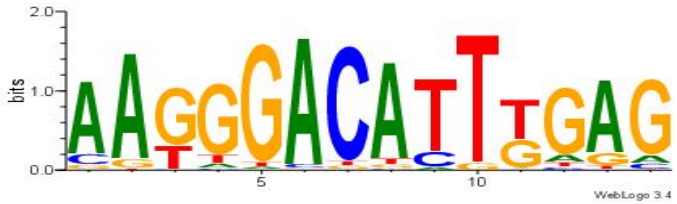

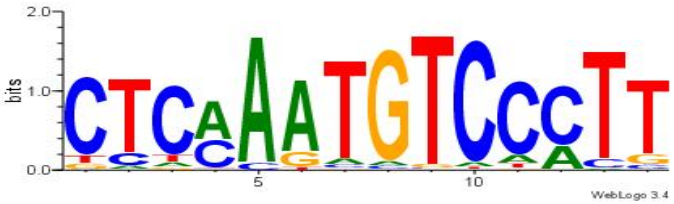

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0794242

Alignment:

```
TCCAAATGGGAGAAATTGGC
KGCAATGGGG----------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

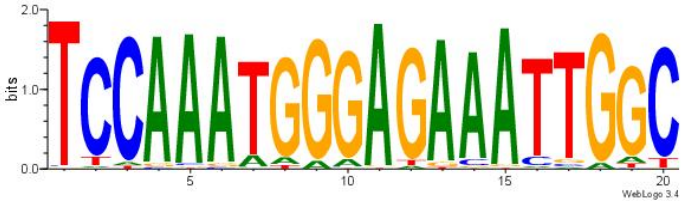

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

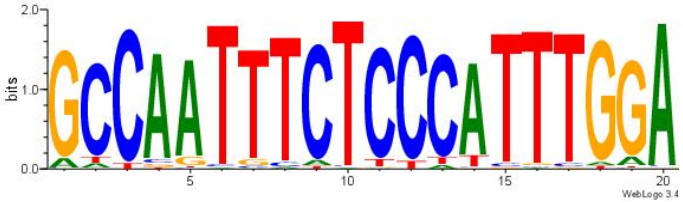

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0797903

Alignment:

```
KGGGCDGAGGGGCTCCT
--KGCAATGGGG-----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

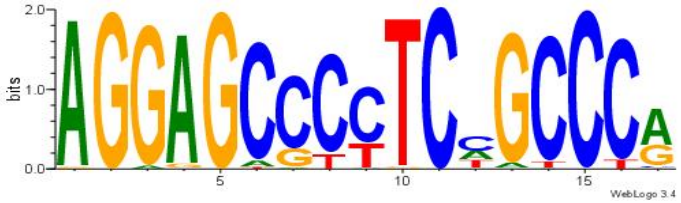

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10

Similarity score: 0.080401

Alignment:
CCCMKGGCACCCTCAGTCCT
----------CCCCATTGCY

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

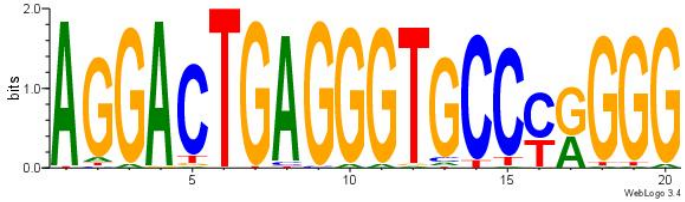

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

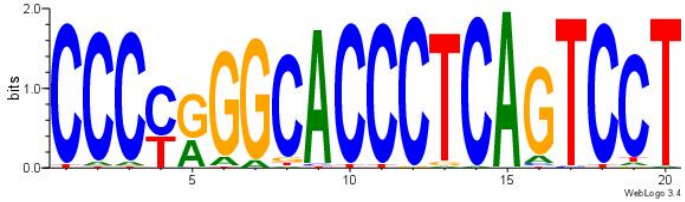

Dataset #: 1
Motif ID: 214
Motif name: Motif 214
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0804336

Alignment:
GGTTTTCCATTCCTGAG
----CCCCATTGCY---

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

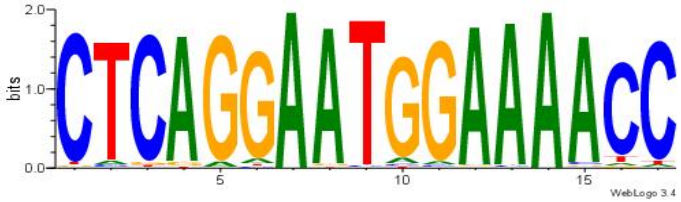

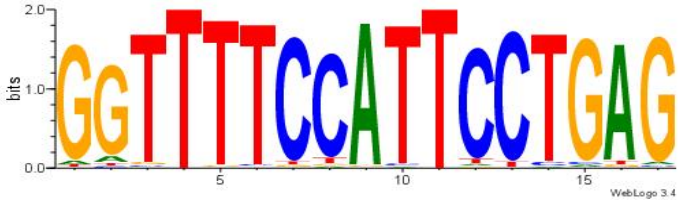

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0805554

Alignment:

```
GCTCTCAATTGGTCATT
---CCCCATTGCY----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

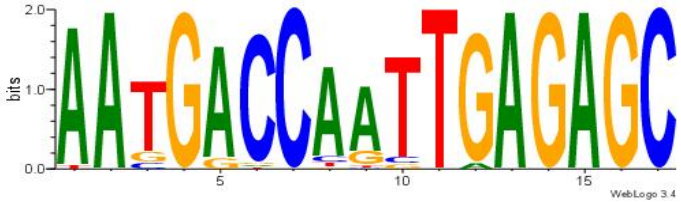

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

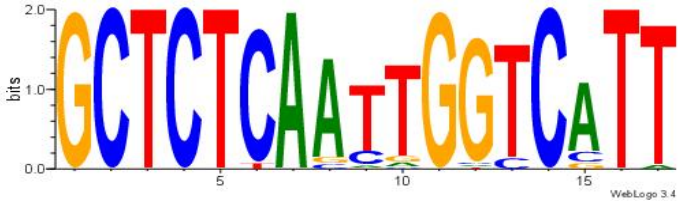

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0808036

Alignment:

```
AAGACCTTCCAGTGGGACAA
-------KGCAATGGGG---
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

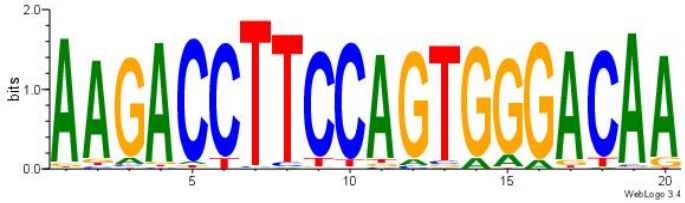

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

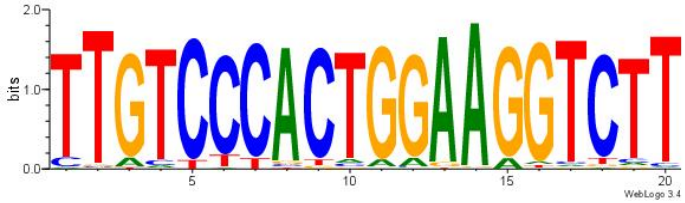

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0810718

Alignment:
GCTGCARTCTCGGCACTTT
--KGCAATGGGG-------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

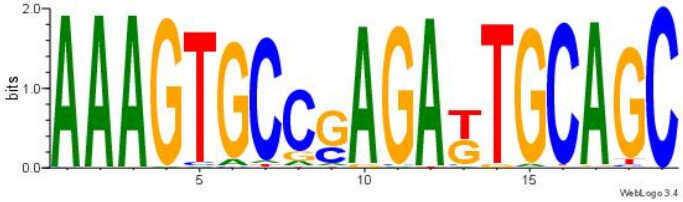

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

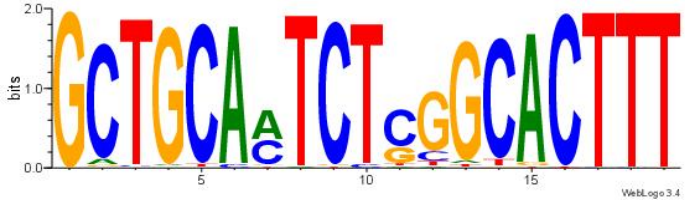

Dataset #: 1
Motif ID: 288
Motif name: Motif 288
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0813863

Alignment:
GGGACTTGGG
KGCAATGGGG

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0819837

Alignment:

```
GTTTAACCATTGAGGGCCAG
----CCCCATTGCY------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

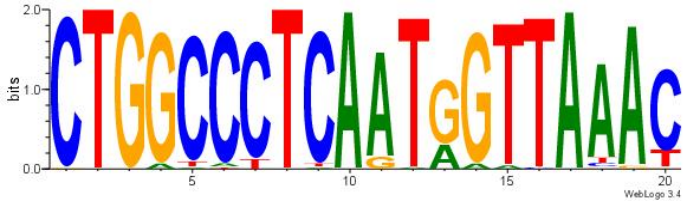

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

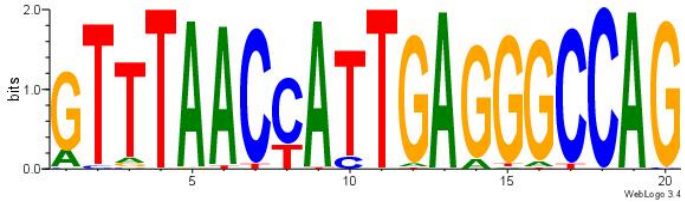

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0825211

Alignment:

```
AGAAATCGAGCRCAGCGCCG
----------KGCAATGGGG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

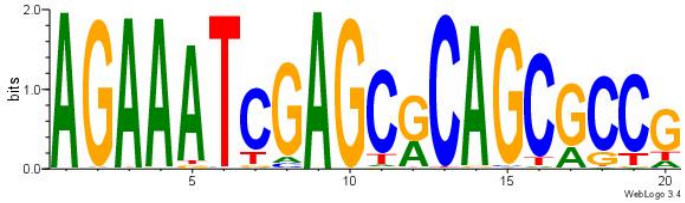

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

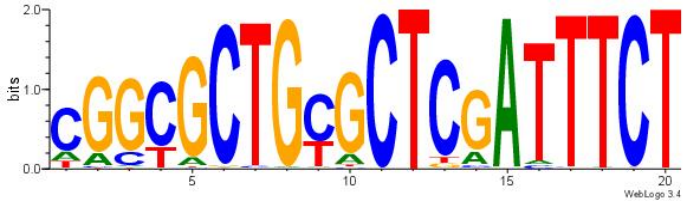

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0828927

Alignment:
GGRCKCACWGGAGC
---KGCAATGGGG-

Original motif Consensus sequence: GCTCCWGTGYGKCC

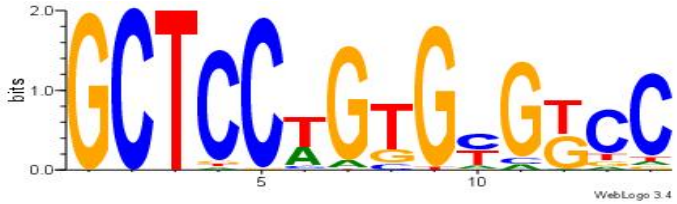

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0834823

Alignment:
GCCTCCTTGAGCTGTGGTGG
-CCCCATTGCY---------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

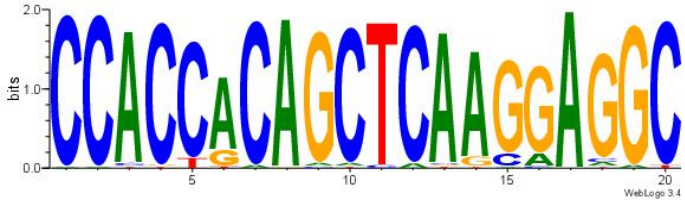

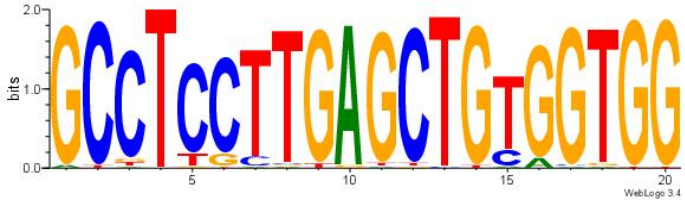

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0838908

Alignment:

```
AGGAGRCMCTCTGCCTGGC
----CCCCATTGCY-----
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

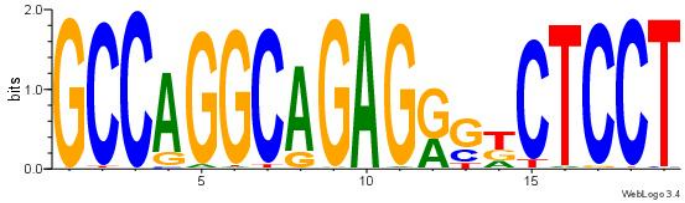

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

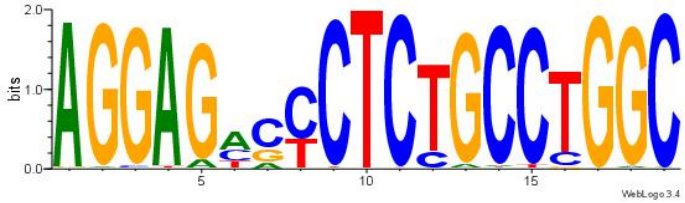

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0840597

Alignment:

```
AGGAGCGCCTCTKCCCGGC
-----CCCCATTGCY----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

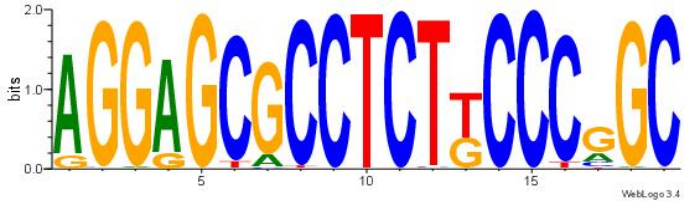

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

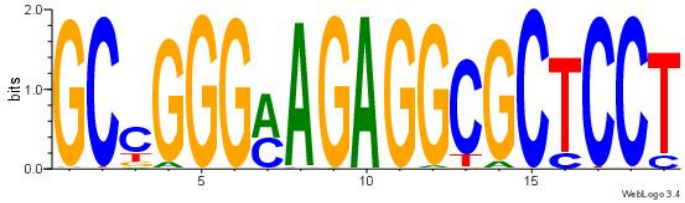

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0843995

Alignment:
GGTGCCCCTCTGGGACRAA
----CCCCATTGCY-----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

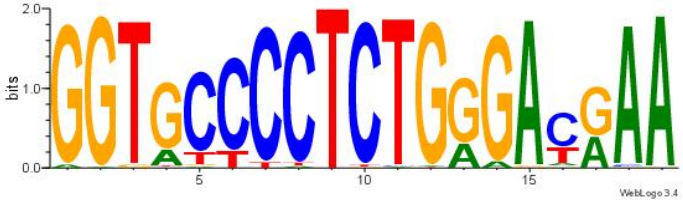

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

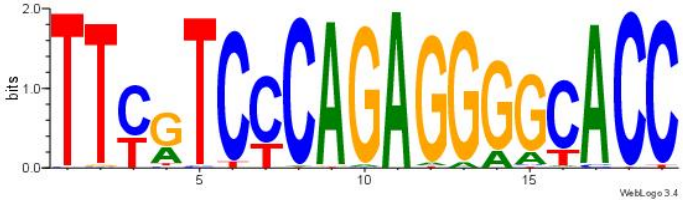

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.084673

Alignment:
GAAHCAACCKAAKTGTCCAT
---CCCCATTGCY-------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

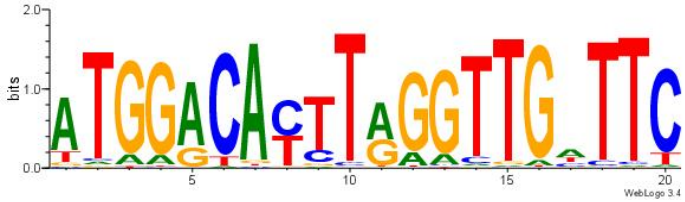

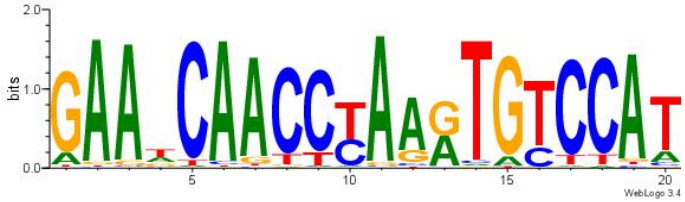

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0855008

Alignment:

```
CAAGATGGCGGC
KGCAATGGGG--
```

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

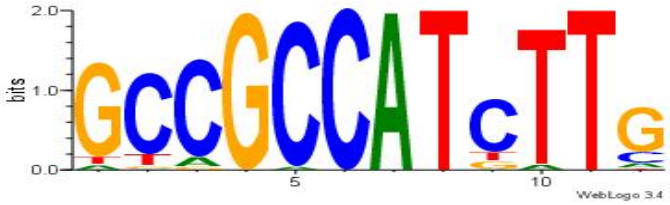

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0855333

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-----CCCCATTGCY-----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

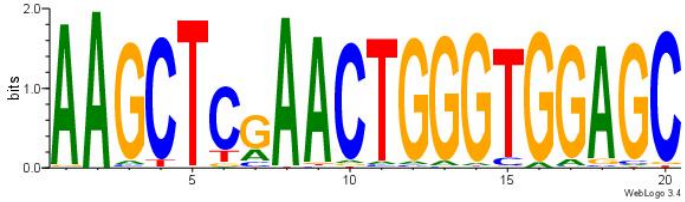

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

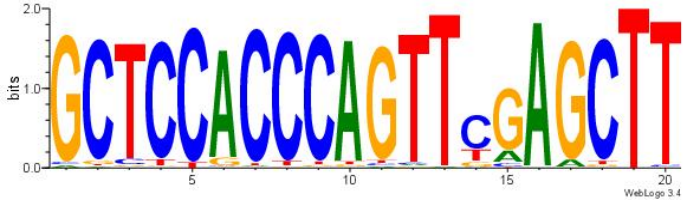

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0856705

Alignment:
GCCRGCCCTGCYGGCC
--CCCCATTGCY----

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

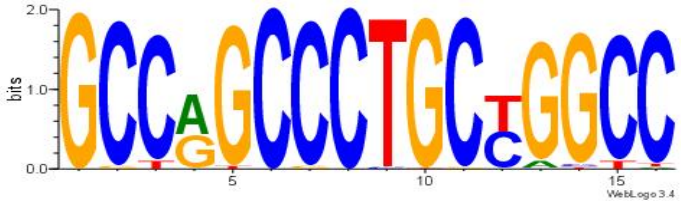

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

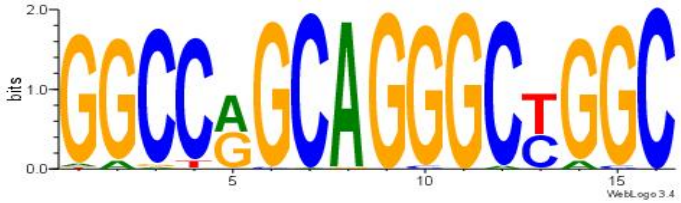

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0856758

Alignment:
TGGCTTCACCCAGTGGATCC
---CCCCATTGCY-------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

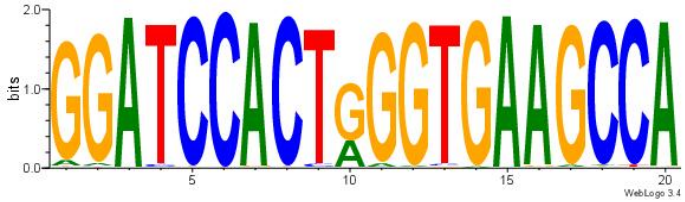

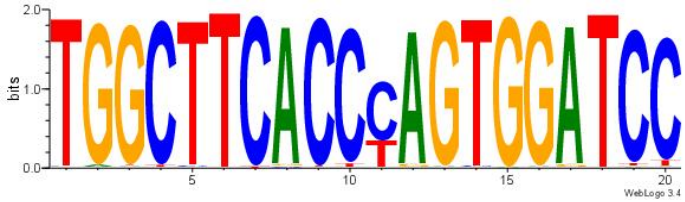

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0859649

Alignment:

```
GGGGTTGGGG
KGCAATGGGG
```

Original motif Consensus sequence: CCCCAACCCC

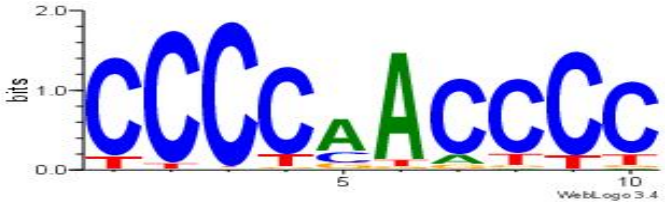

Reverse complement motif Consensus sequence: GGGGTTGGGG

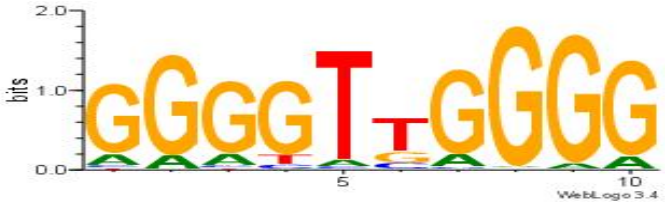

Dataset #:	1
Motif ID:	335

Motif name:	Motif 335
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0862851

Alignment:

```
TCAGCATTAAC
-CCCCATTGCY
```

Original motif Consensus sequence: GTTAATGCTGA

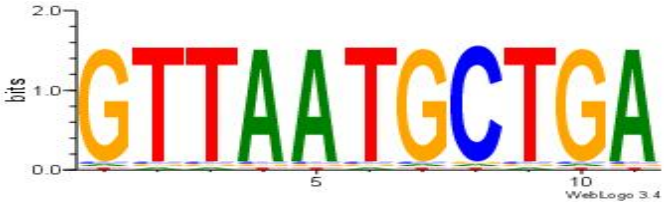

Reverse complement motif Consensus sequence: TCAGCATTAAC

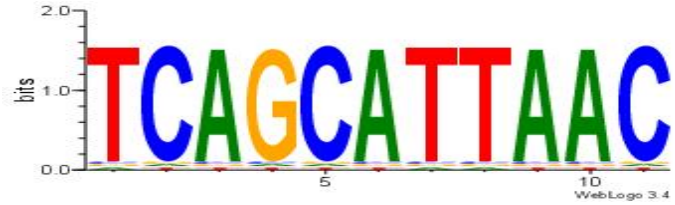

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0864844

Alignment:
CCTCCGTGGGCTCC
-CCCCATTGCY---

Original motif Consensus sequence: CCTCCGTGGGCTCC

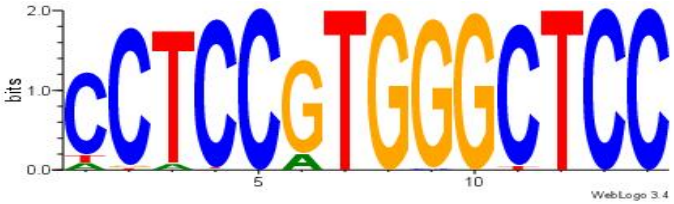

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

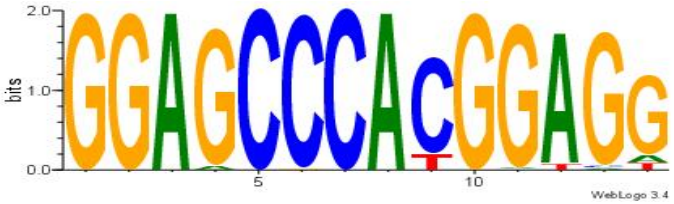

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0867874

Alignment:
AGCCCCGGTTCCCGCYCGC
---CCCCATTGCY------

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

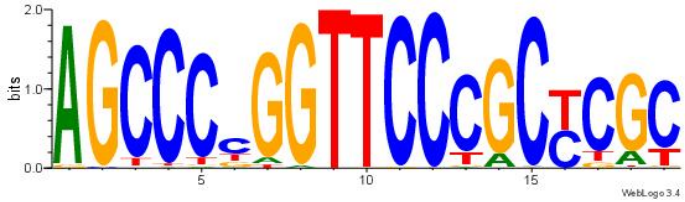

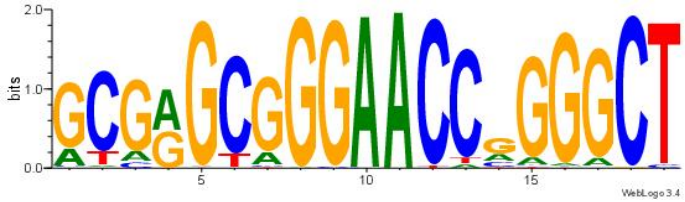

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0870624

Alignment:
ACTTTGGACTGTGGACTTTT
----KGCAATGGGG------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

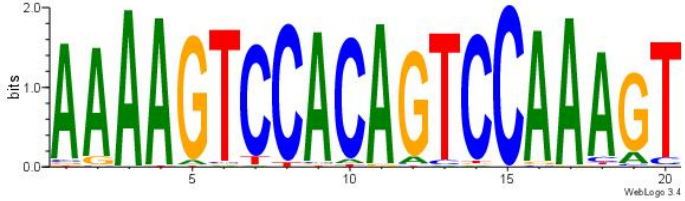

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

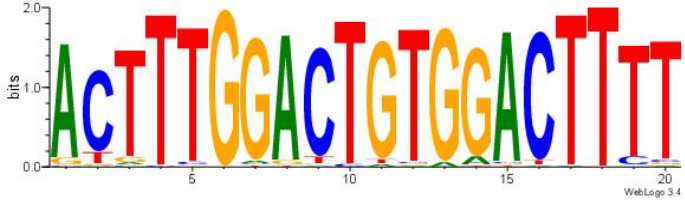

Dataset #: 1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0876028

Alignment:

```
CCCAAATCCTATAAAA
CCCCATTGCY------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

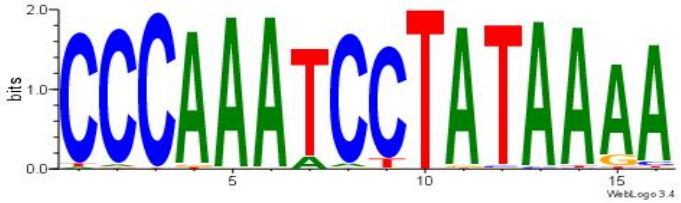

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

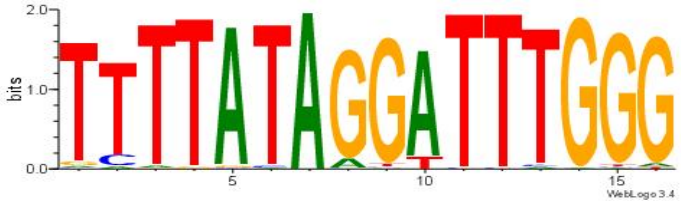

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0878533

Alignment:
ACACCTATTCGCACAC
--CCCCATTGCY----

Original motif Consensus sequence: ACACCTATTCGCACAC

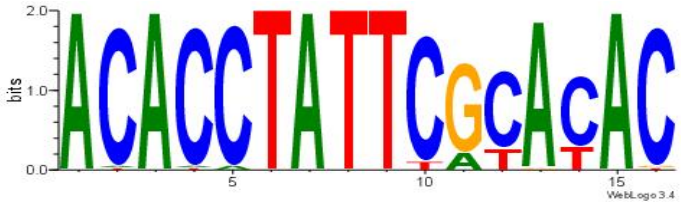

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

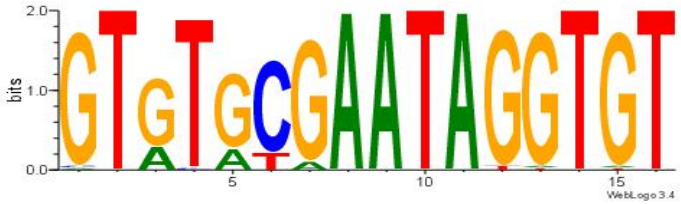

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0878803

Alignment:
GCTTAGCACCYGGGCCAGC
-----KGCAATGGGG----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

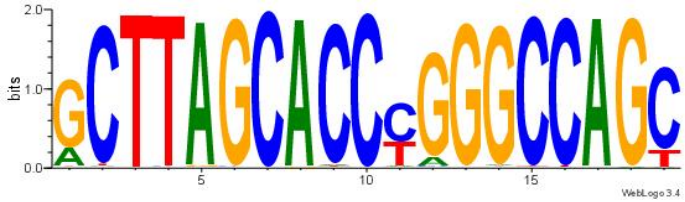

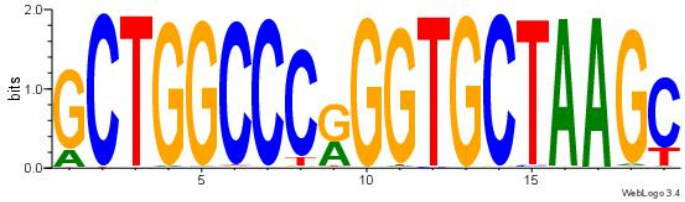

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0881212

Alignment:

```
KKCACCTTGATCTTGGACTT
-CCCCATTGCY---------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

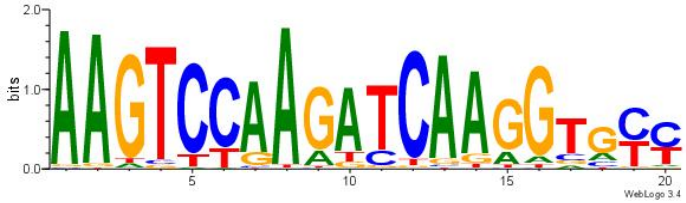

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

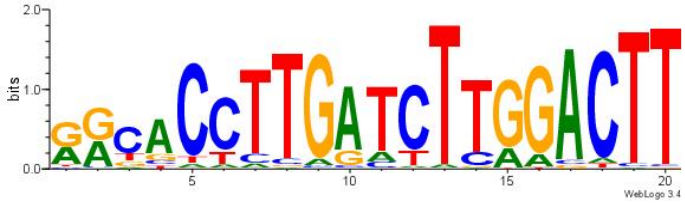

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0883386

Alignment:

```
CTCCAGKTMCATCCATGTTG
CCCCATTGCY----------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

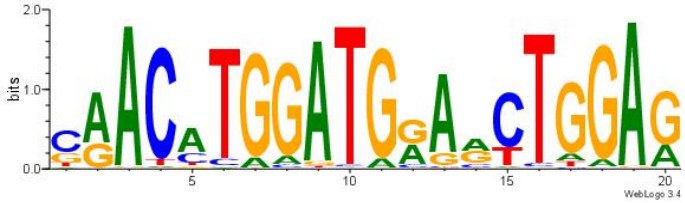

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

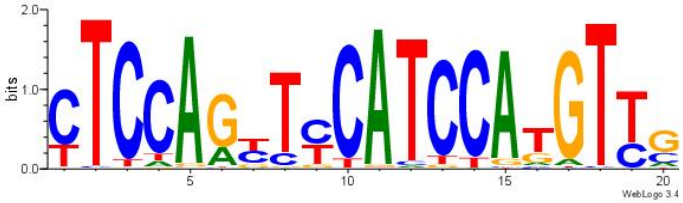

Dataset #: 1 Motif ID: 166 Motif name: Motif 166

Original motif Consensus sequence: AAGGGACATTKGAG

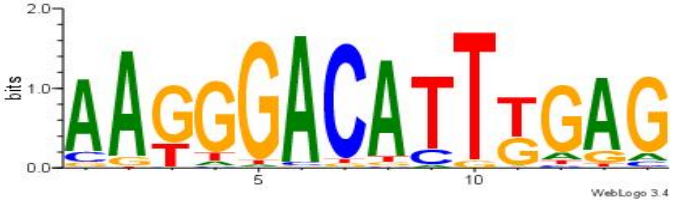

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

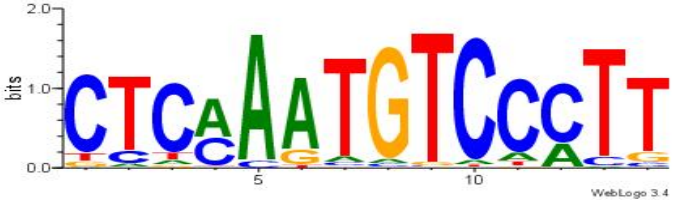

Best Matches for Significant Motif ID 166 (Highest to Lowest)

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0470693

Alignment:

```
AATGACCAATTGAGAGC
AAGGGACATTKGAG---
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

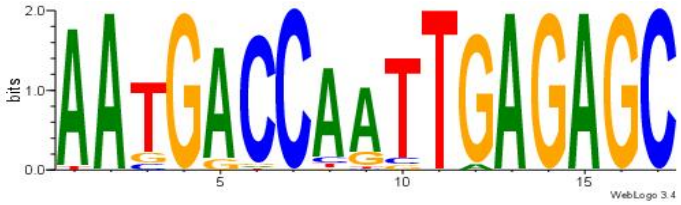

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

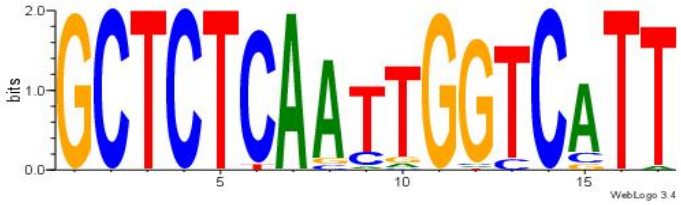

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0535951

Alignment:

```
GGGAGGGATATATTAGC
--AAGGGACATTKGAG-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

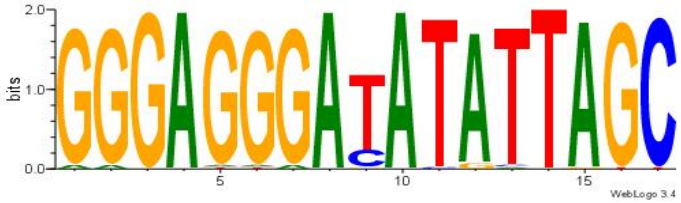

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

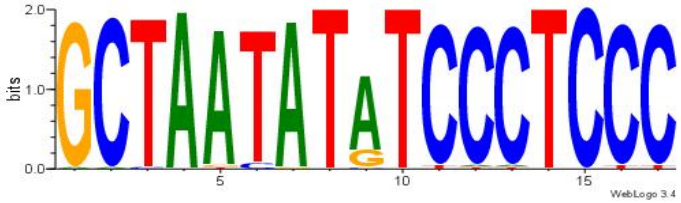

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0576035

Alignment:

```
CCCAAATCTCATSTTGAAT
CTCRAATGTCCCTT-----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

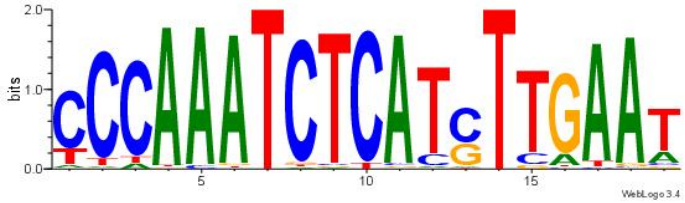

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

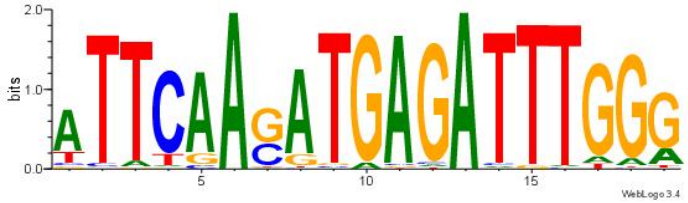

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0589344

Alignment:

```
AACAACASACACTGGGGCCT
---AAGGGACATTKGAG---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

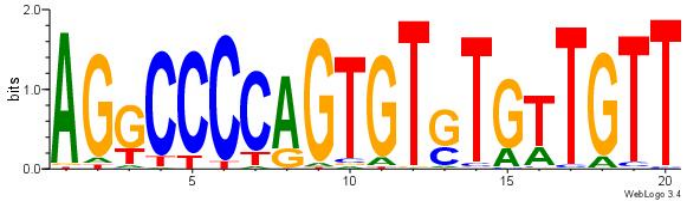

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

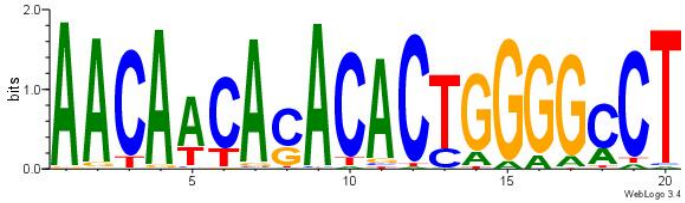

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0601117

Alignment:

```
AATGAKATCATGTCYTTTGC
----CTCRAATGTCCCTT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

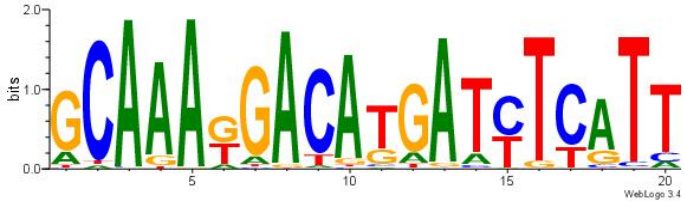

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

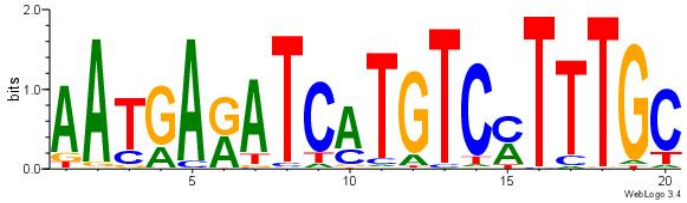

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0629417

Alignment:
CAGCTACTCKTATACCCTTG
------CTCRAATGTCCCTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

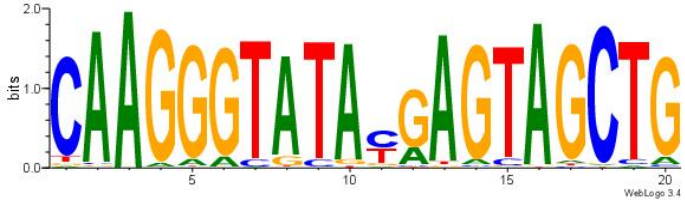

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

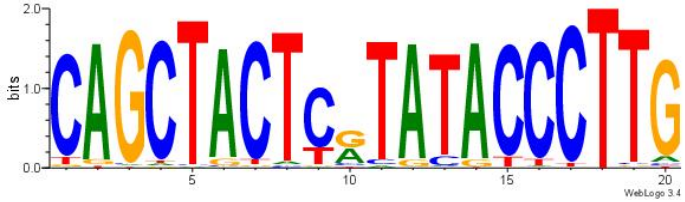

Dataset #: 1
Motif ID: 118
Motif name: Motif 118
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0638028

Alignment:
GGAGGATCACKTGAG
AAGGGACATTKGAG-

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

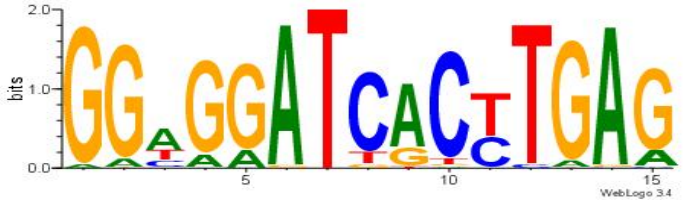

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0642414

Alignment:

```
TAGTGGTGATTTSTGAGAT
-AAGGGACATTKGAG----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

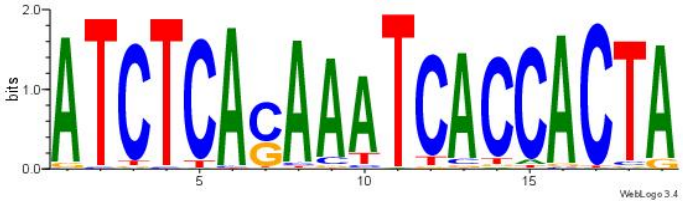

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

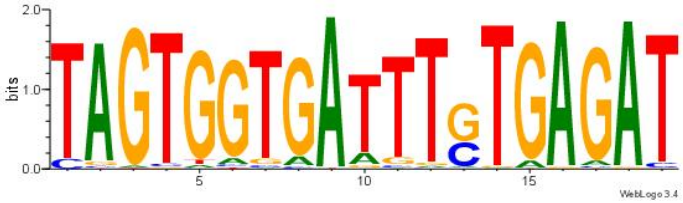

Dataset #:	1

Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0659742

Alignment:

```
CAGAAATCACCCGTCTT
---CTCRAATGTCCCTT
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

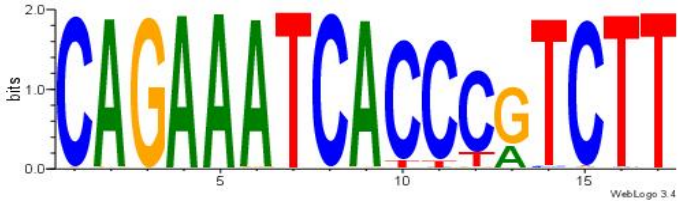

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

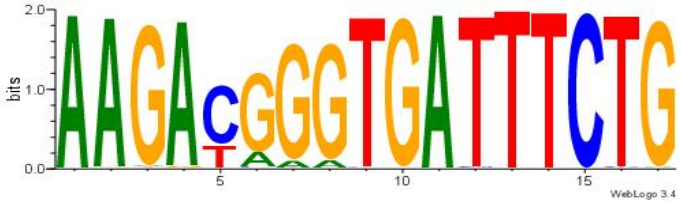

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.0693885

Alignment:
GGGTCAGGGAGTTCCCTTTC
----CTCRAATGTCCCTT--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

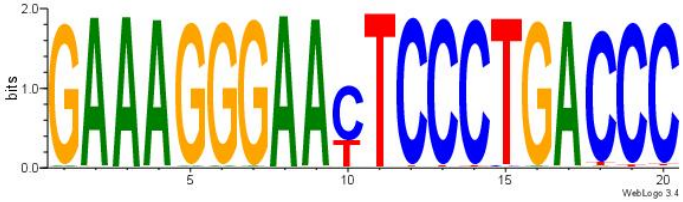

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

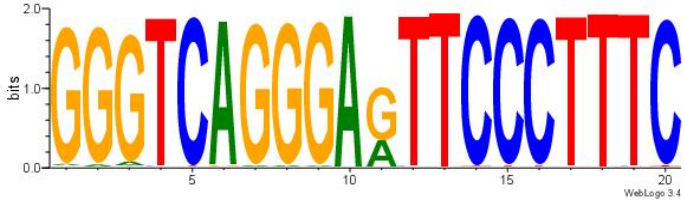

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.070566

Alignment:
ACAAGGCAAGTCCCTTCY
--CTCRAATGTCCCTT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

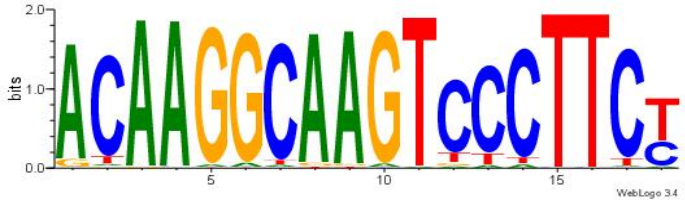

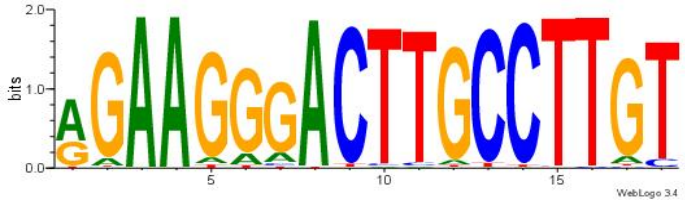

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.070969

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-CTCRAATGTCCCTT-----
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

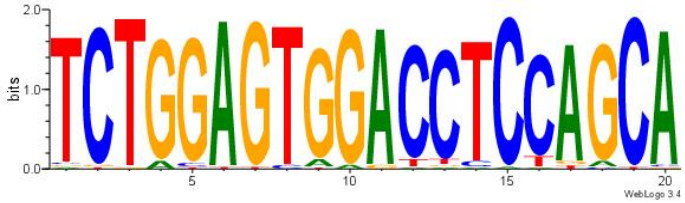

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

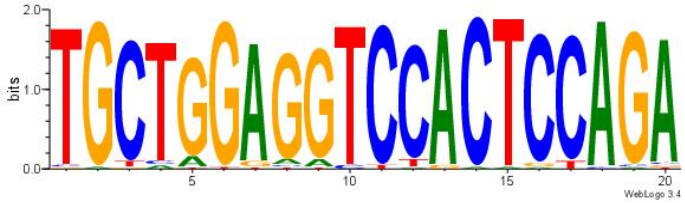

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.072655

Alignment:

```
ATGATCCAGCAATYCCACTH
CTCRAATGTCCCTT------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

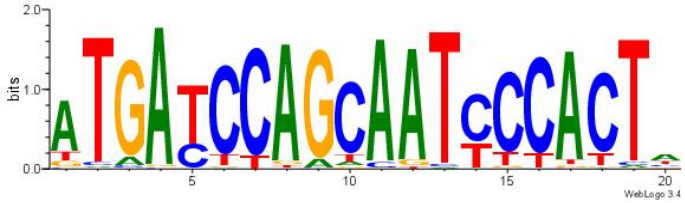

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

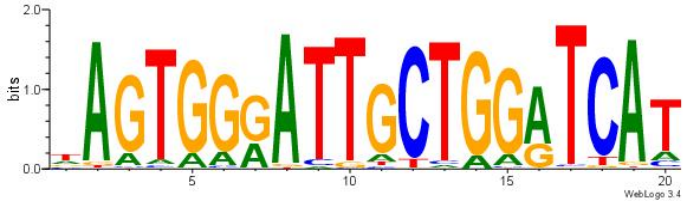

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0727071

Alignment:
CAAGTTGACACATAAAATTA
--AAGGGACATTKGAG----

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

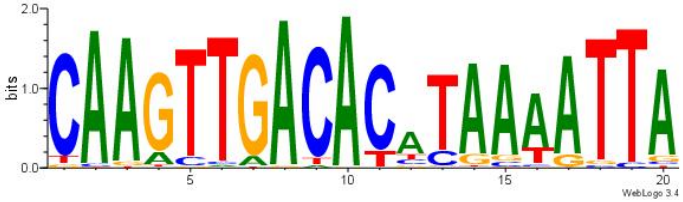

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

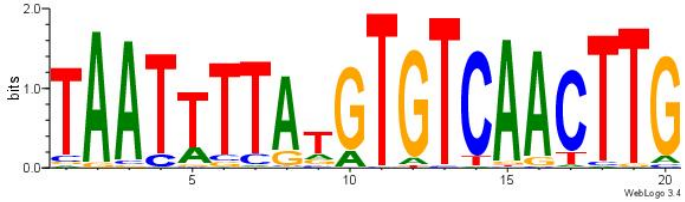

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0733671

Alignment:
AATCAACCCTGGYRATCAAT
AAGGGACATTKGAG------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

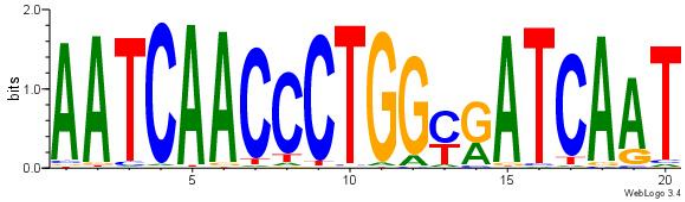

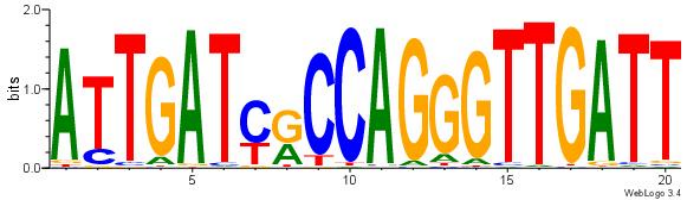

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0739729

Alignment:

```
GTTGTGAGGATTAAATGAG
AAGGGACATTKGAG-----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

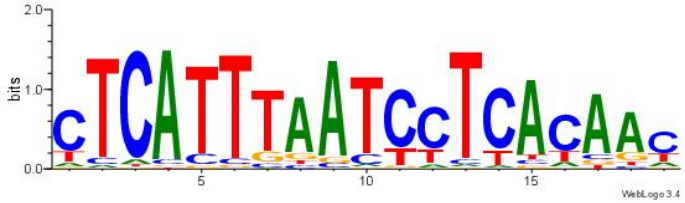

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

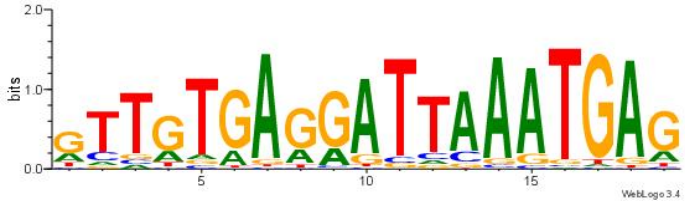

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0743669

Alignment:

```
TGAGKCAATTAAACCTCTT
---CTCRAATGTCCCTT--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

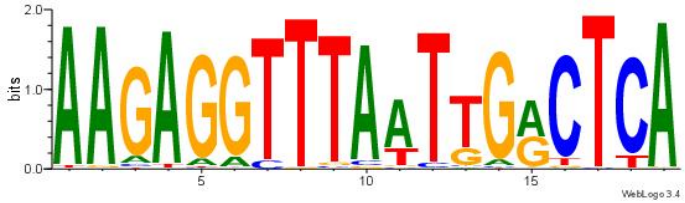

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

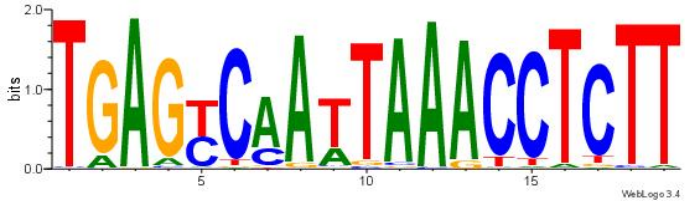

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.0748709

Alignment:
TTTTCACATGCCTTTCT
--CTCRAATGTCCCTT-

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

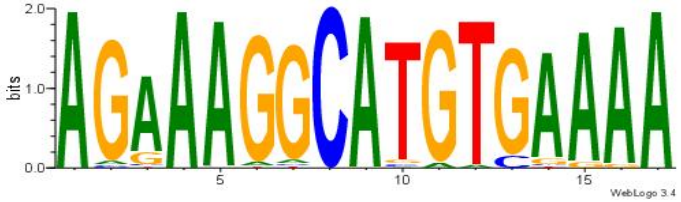

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

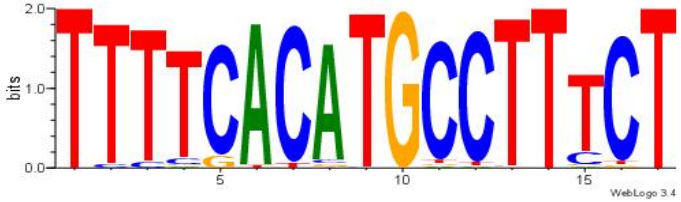

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0750676

Alignment:
ACTTTGGACTGTGGACTTTT
--AAGGGACATTKGAG----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

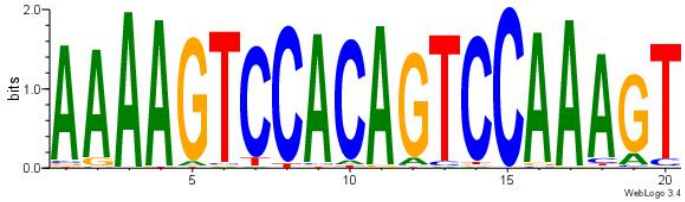

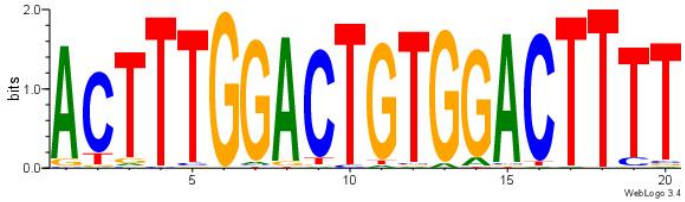

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.07559

Alignment:

```
TCCAAATGGGAGAAATTGGC
-----AAGGGACATTKGAG-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

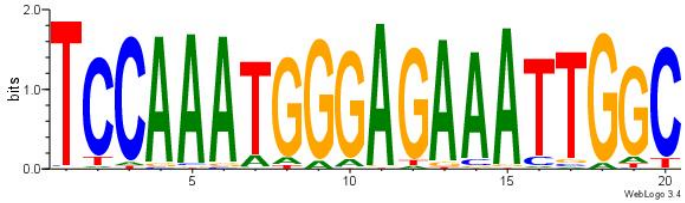

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

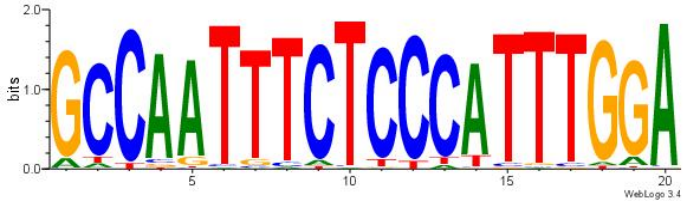

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0768148

Alignment:

```
ATAGGAATGCTTGTGATTTT
-AAGGGACATTKGAG-----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

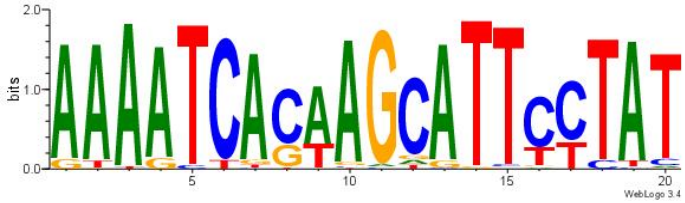

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

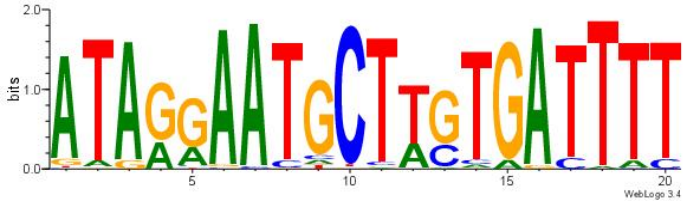

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.0770179

Alignment:
GCTGTGTGACCTTGGGCAAG
---AAGGGACATTKGAG---

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

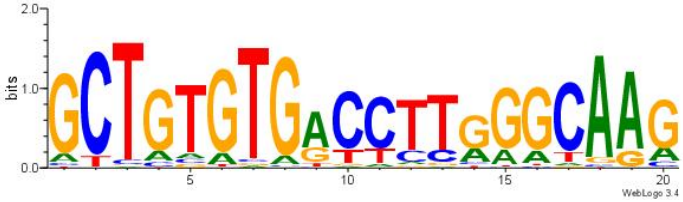

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

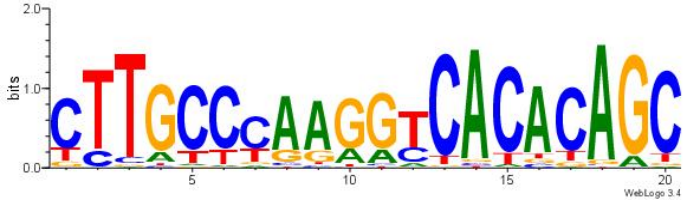

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0777172

Alignment:
CMCAGTTCACAATAGGGTT
---AAGGGACATTKGAG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence:
CMCAGTTCACAATAGGGTT

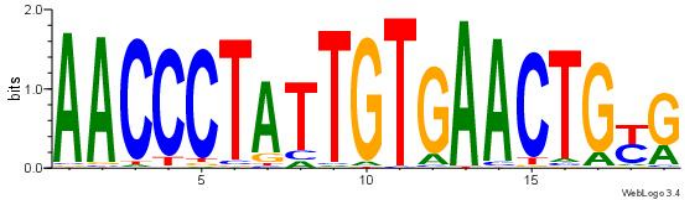

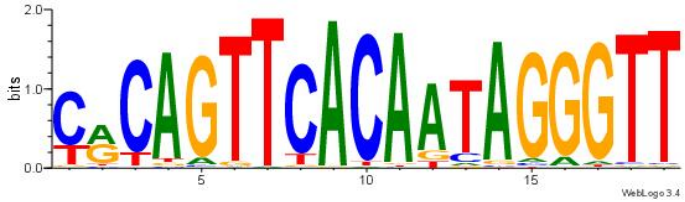

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0779733

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-----CTCRAATGTCCCTT-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

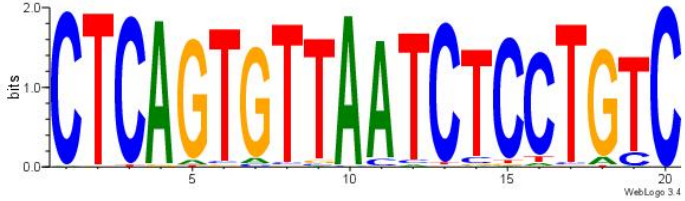

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

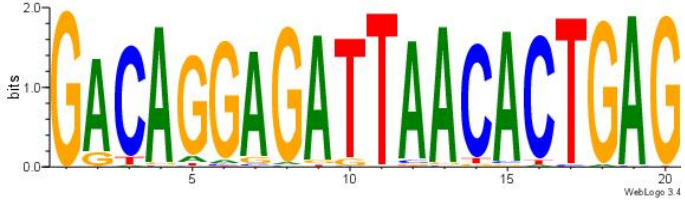

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0787534

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
CTCRAATGTCCCTT------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

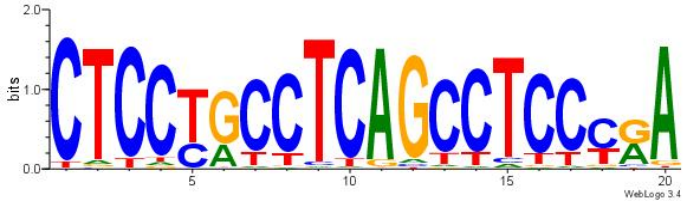

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

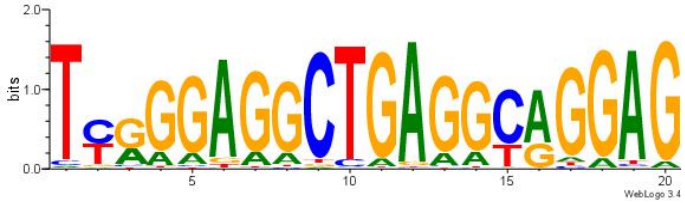

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.0797626

Alignment:
AAGTCCAAGATCAAGGTGYY
----CTCRAATGTCCCTT--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

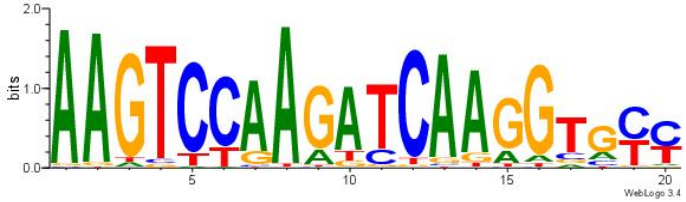

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

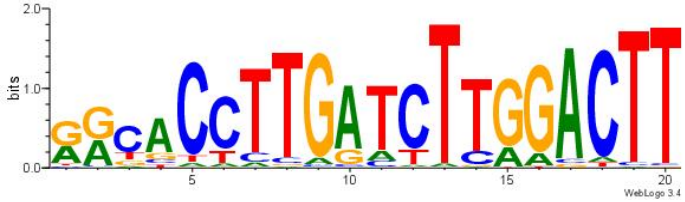

Dataset #: 1
Motif ID: 217
Motif name: Motif 217
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0804119

Alignment:
CCCTACTGTTCTCY
CTCRAATGTCCCTT

Original motif Consensus sequence: CCCTACTGTTCTCY

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

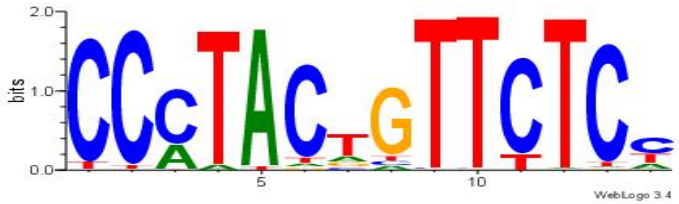

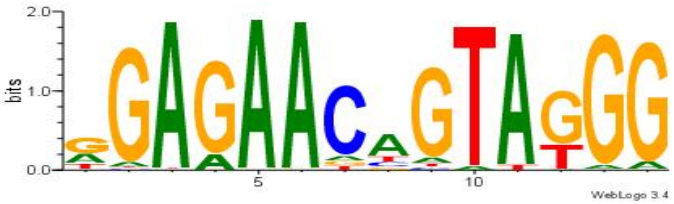

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0806089

Alignment:

```
CAACATGGATGRARCTGGAG
---CTCRAATGTCCCTT---
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

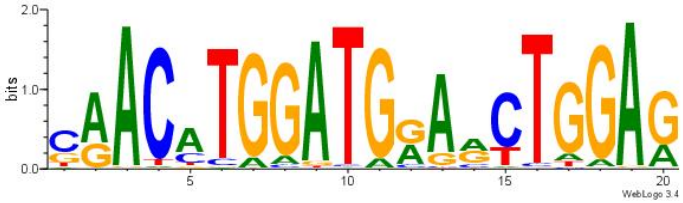

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

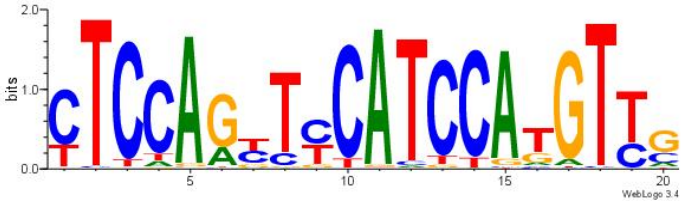

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0814374

Alignment:

```
ACCTGGAAAATCGGGTCACT
-AAGGGACATTKGAG-----
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

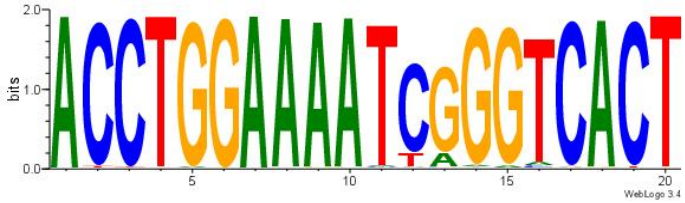

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

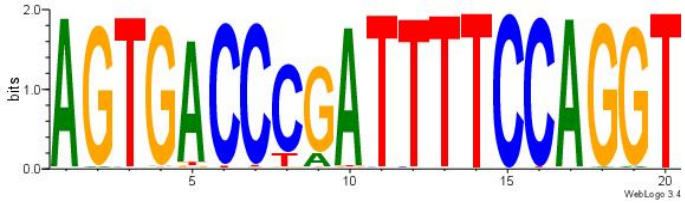

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.0823016

Alignment:
CAATGATAGACTGGAT
--AAGGGACATTKGAG

Original motif Consensus sequence: ATCCAGTCTATCATTG

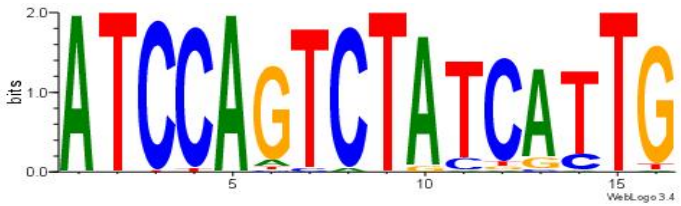

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.082614

Alignment:
GTGTCKGGAGTTTGTTCCTT
------CTCRAATGTCCCTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

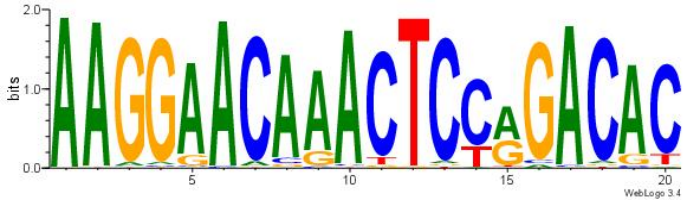

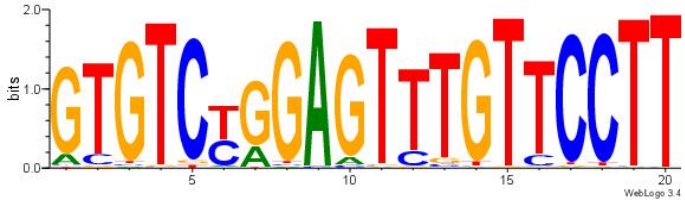

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0828414

Alignment:

```
CATTTCCAWCTGAGGTAC
AAGGGACATTKGAG----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

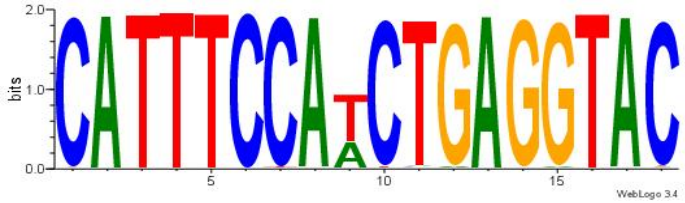

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

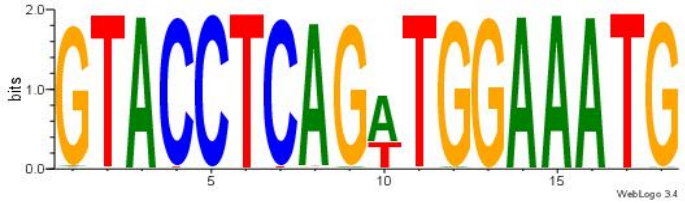

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0833546

Alignment:

```
GACATGAGCTGGCGCTTG
---CTCRAATGTCCCTT-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

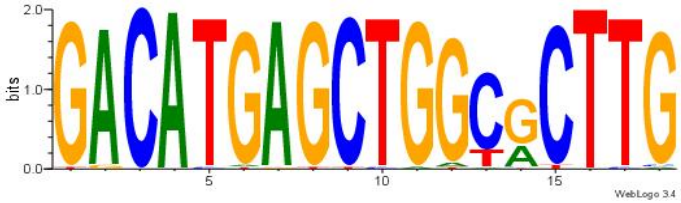

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

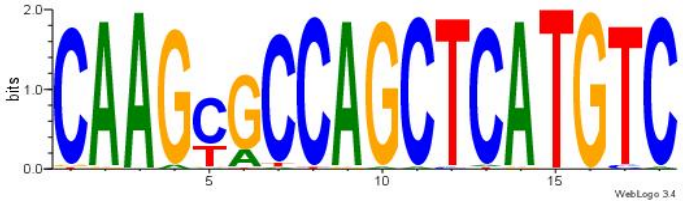

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.0835046

Alignment:
CTGGGCTCCTGAGTCTGGTG
-CTCRAATGTCCCTT-----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

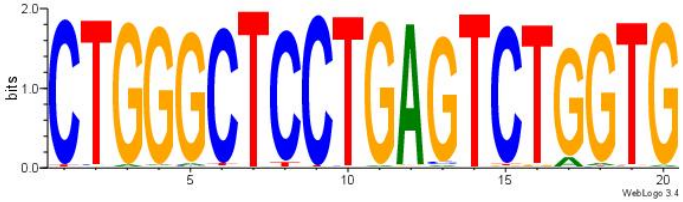

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

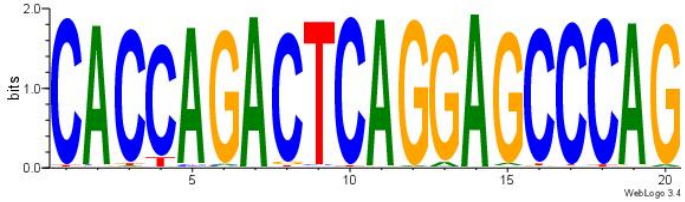

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0838916

Alignment:
MGGGATATAATCTCCTGGTG
----CTCRAATGTCCCTT--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

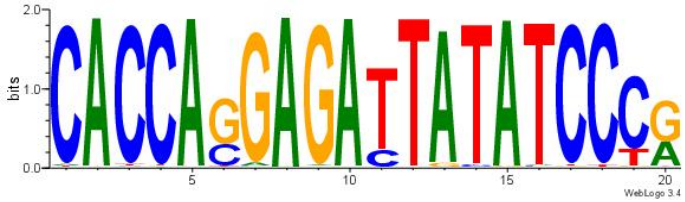

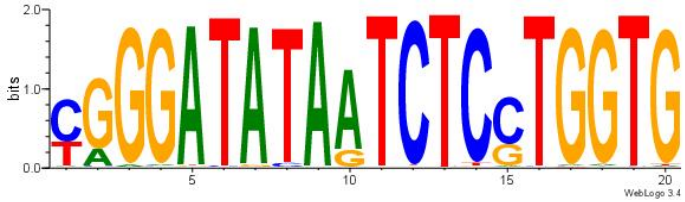

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0842695

Alignment:

```
ATCATTCTTATGCCTTTG
----CTCRAATGTCCCTT
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

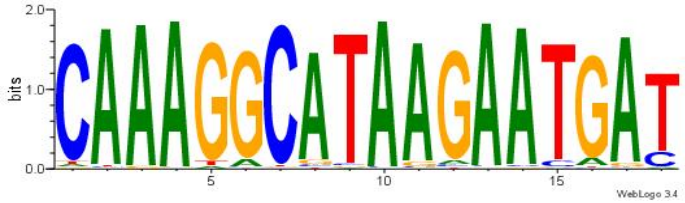

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

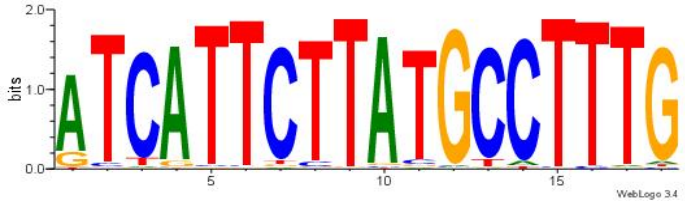

Dataset #: 1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0843196

Alignment:

```
AAAGAGAGTCAGCGAAG
---AAGGGACATTKGAG
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

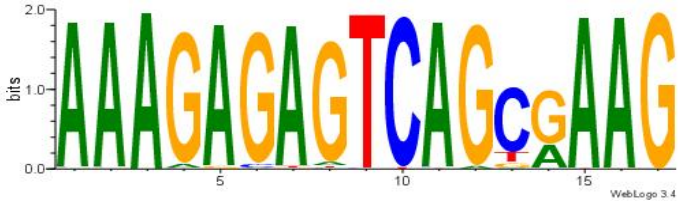

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

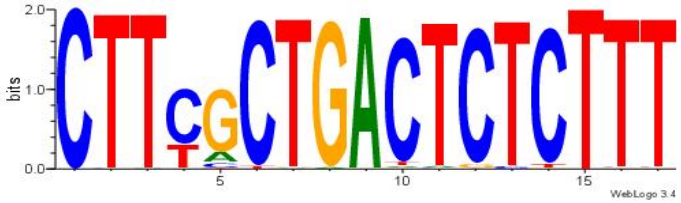

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.0848402

Alignment:
GTGCCAGGCACTGTKCTARG
----AAGGGACATTKGAG--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

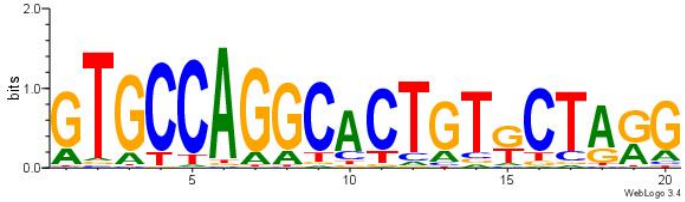

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

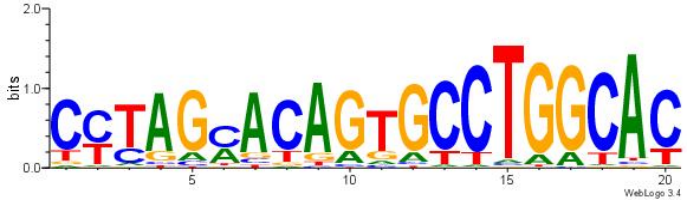

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0854153

Alignment:
TGTATTAGTCMMTT
CTCRAATGTCCCTT

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

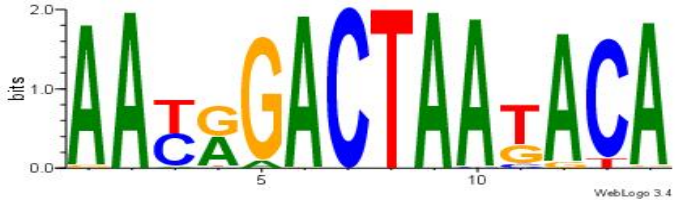

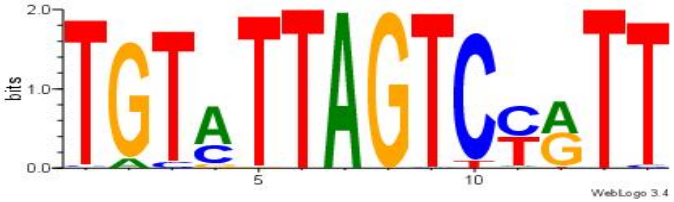

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0854286

Alignment:

```
KACATTGATTTTGTATC
--AAGGGACATTKGAG-
```

Original motif Consensus sequence: GATACAAAATCAATGTR

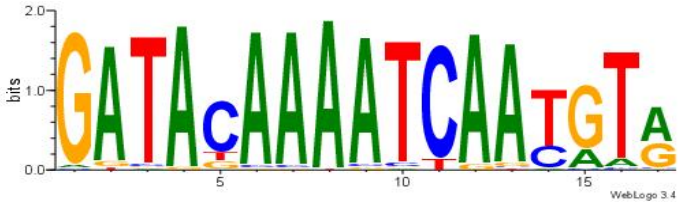

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

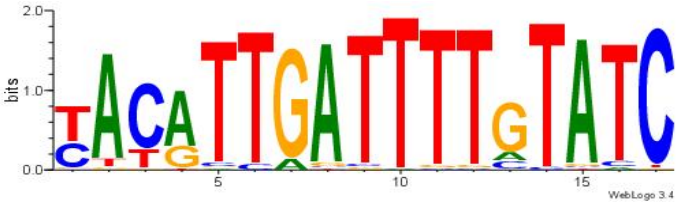

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0856868

Alignment:

```
AAATTACCCAGTCTCAGGTA
-CTCRAATGTCCCTT-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

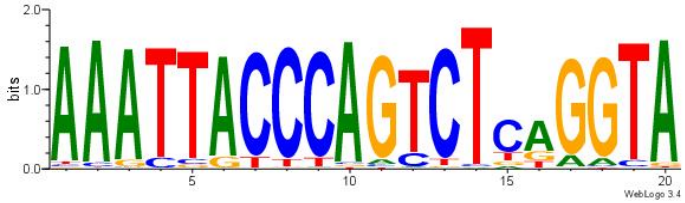

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

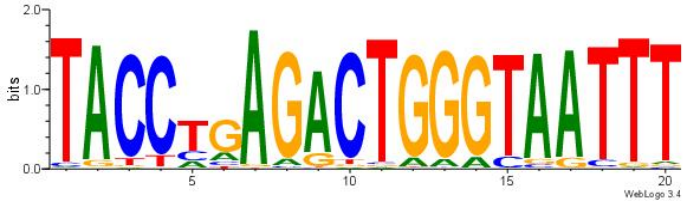

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.0861417

Alignment:
AAGTTCTKGGKTACATGTGC
-----AAGGGACATTKGAG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

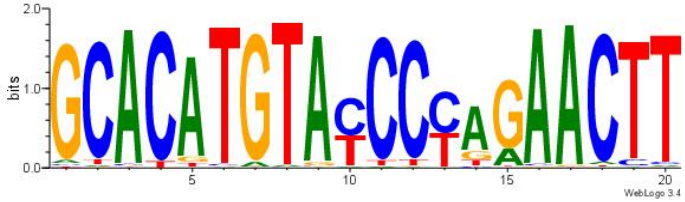

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

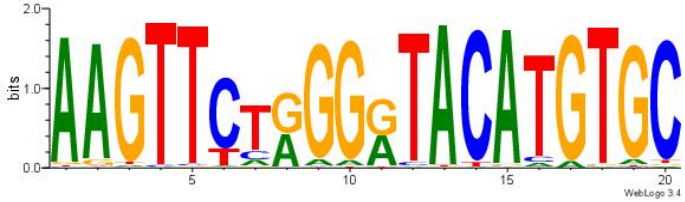

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0862242

Alignment:
TAAGTGGGAGCTAARC
-AAGGGACATTKGAG-

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

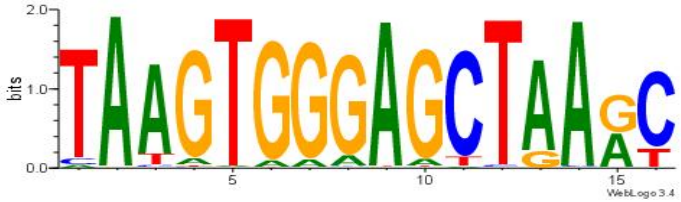

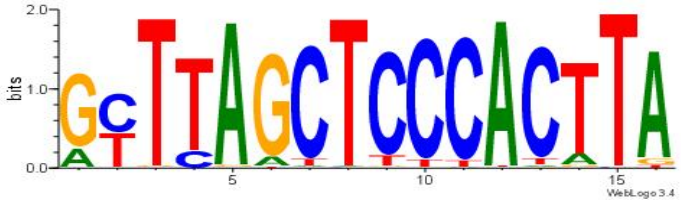

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0870159

Alignment:
GCCAGTCACAAAARGACAMA
CTCRAATGTCCCTT------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

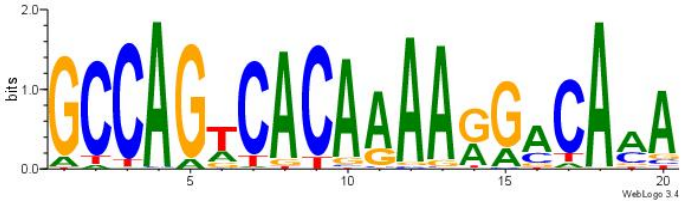

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

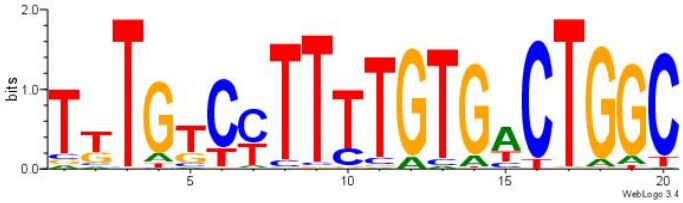

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0871428

Alignment:

```
TAAAAGACTACAWATTGGGT
------AAGGGACATTKGAG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

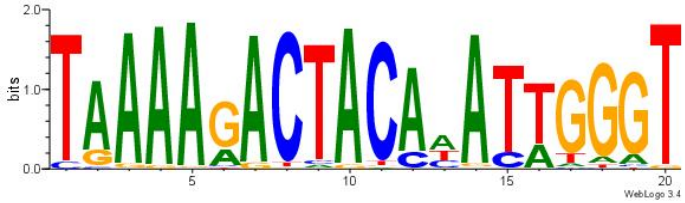

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

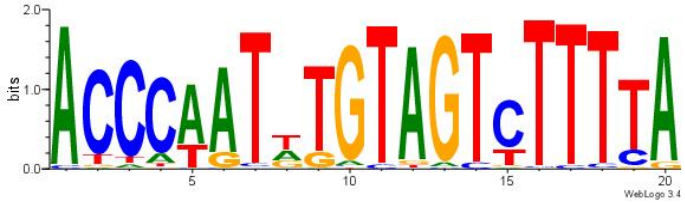

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.0872534

Alignment:
CCCYAATACTGCGCTTTTC
---CTCRAATGTCCCTT--

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

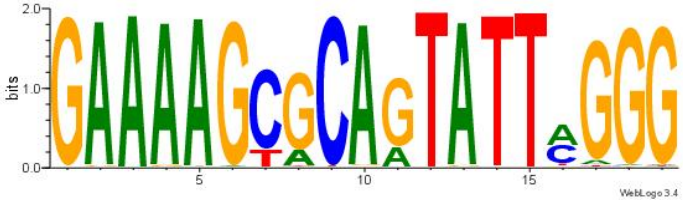

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

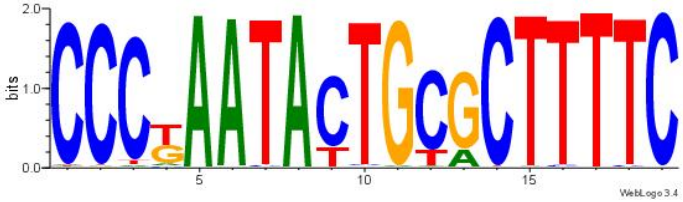

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0875127

Alignment:
AAAMAMMKMATGTTCTCACT
----CTCRAATGTCCCTT--

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

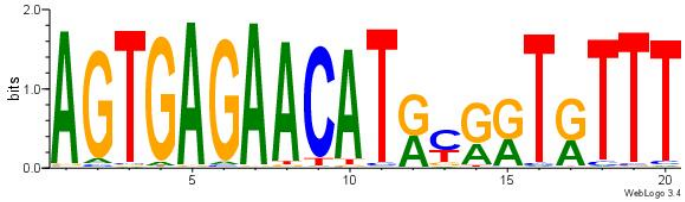

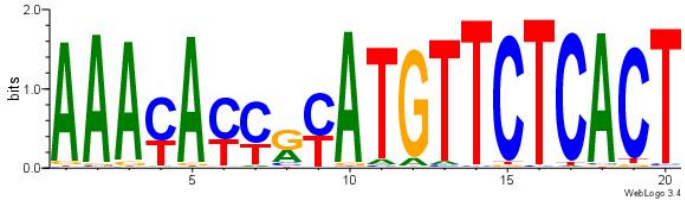

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0884074

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-AAGGGACATTKGAG-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

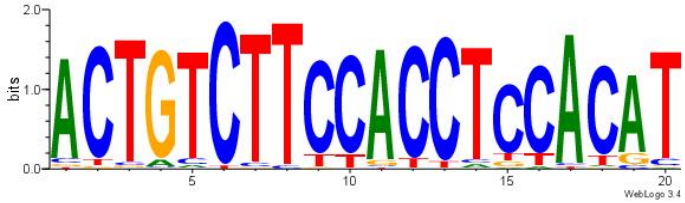

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

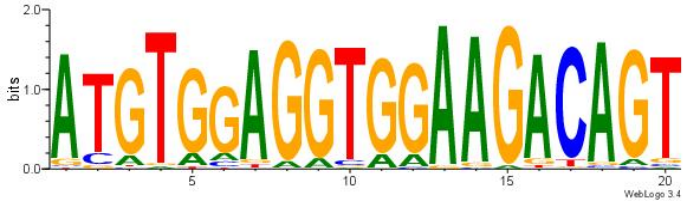

Dataset #:	1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0884757

Alignment:

```
GTTTAACCATTGAGGGCCAG
AAGGGACATTKGAG------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

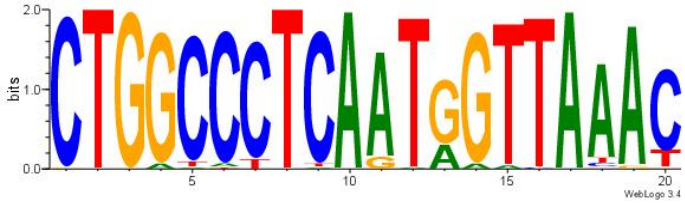

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

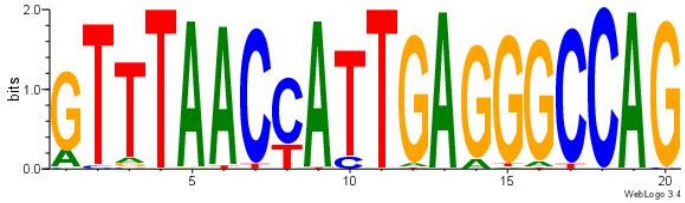

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.0884876

Alignment:
GTTATTAATTGGCCTAATTT
---CTCRAATGTCCCTT---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

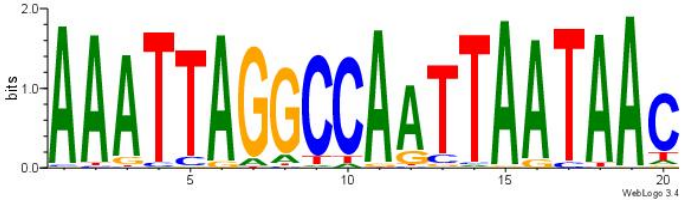

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1 Motif ID: 219 Motif name: Motif 219

Original motif Consensus sequence: CTGCAGCCTC

Reverse complement motif Consensus sequence: GAGGCTGCAG

Best Matches for Significant Motif ID 219 (Highest to Lowest)

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0362773

Alignment:
GACCTGCAGCCCGCCATG
-----CTGCAGCCTC---

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

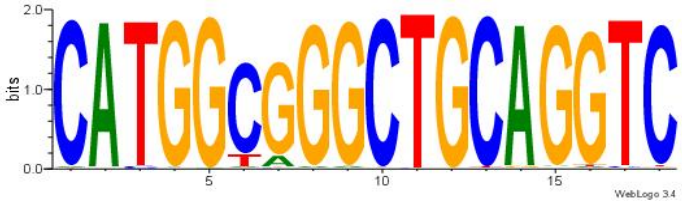

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

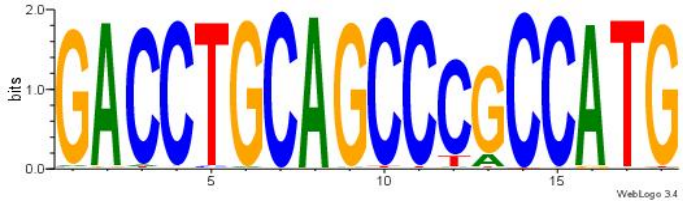

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0471481

Alignment:
GTGGGTGCAGTGCA
GAGGCTGCAG----

Original motif Consensus sequence: TGCACTGCACCCAC

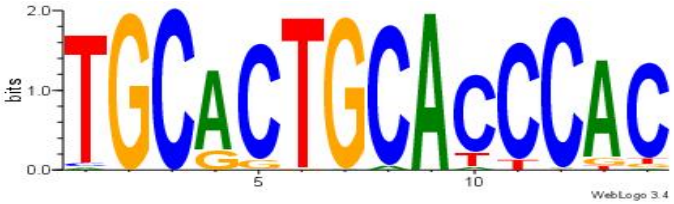

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

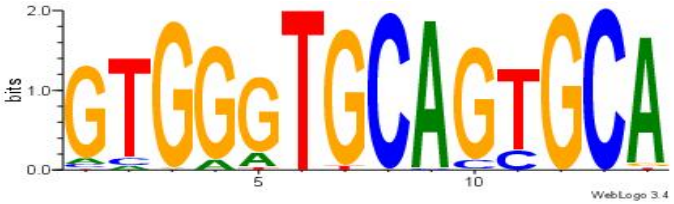

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0475708

Alignment:

```
TGGGGCTCCAGATG
-GAGGCTGCAG---
```

Original motif Consensus sequence: CATCTGGAGCCCCA

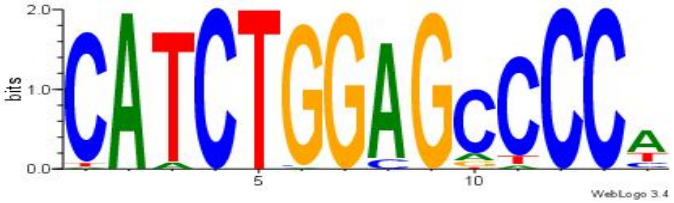

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

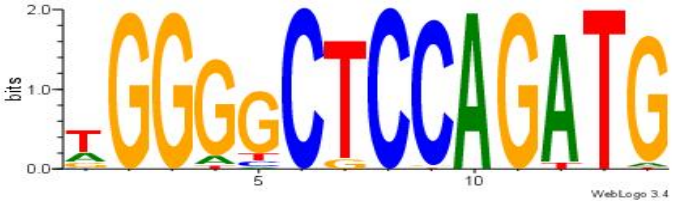

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.049186

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-GAGGCTGCAG--------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

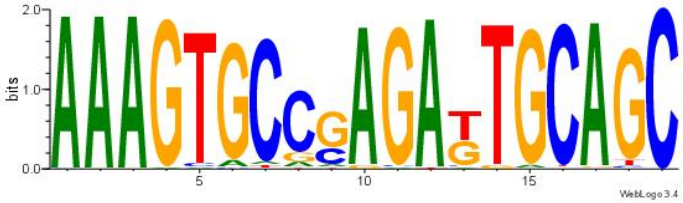

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

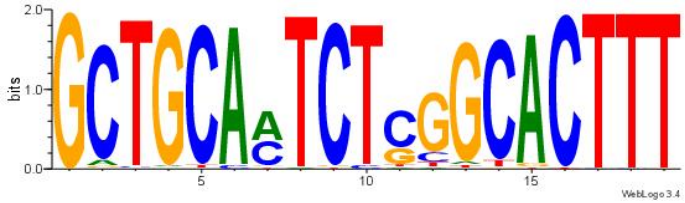

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 10
Similarity score: 0.0535162

Alignment:
MGCTGAGGCAGGAG
----GAGGCTGCAG

Original motif Consensus sequence: CTCCTGCCTCAGCY

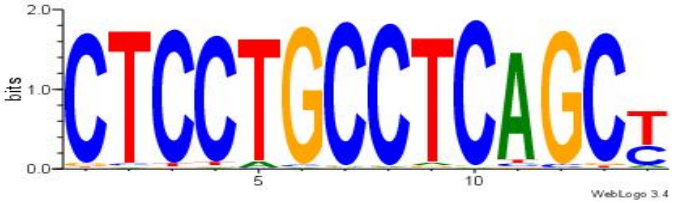

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

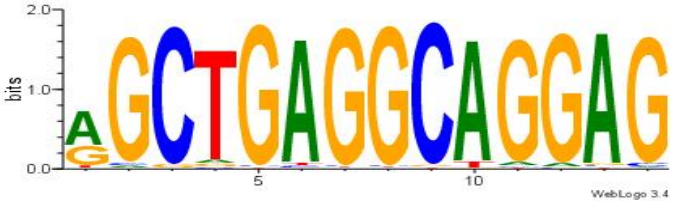

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0571492

Alignment:
TTGAGGAGGCAGTCTG
--GAGGCTGCAG----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

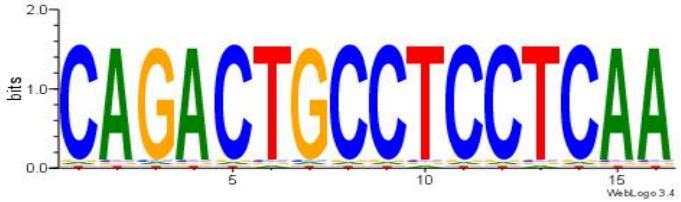

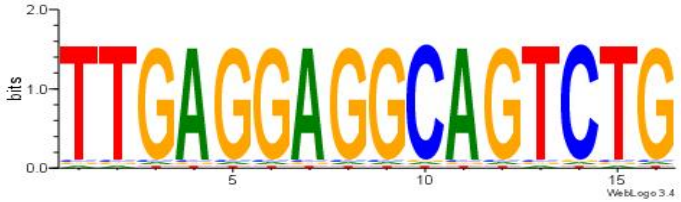

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0597593

Alignment:

```
GCTCACTGCAASCTC
-----CTGCAGCCTC
```

Original motif Consensus sequence: GCTCACTGCAASCTC

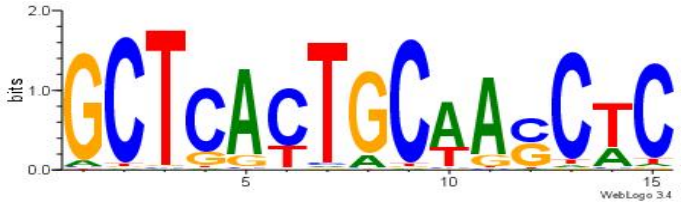

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

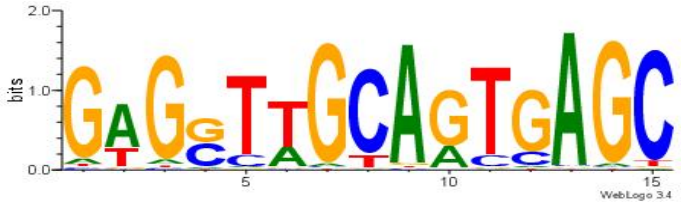

Dataset #:	1
Motif ID:	17

Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0601395

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----CTGCAGCCTC----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

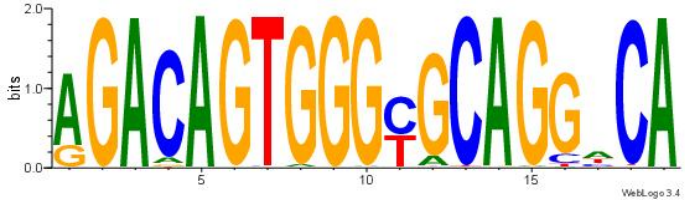

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

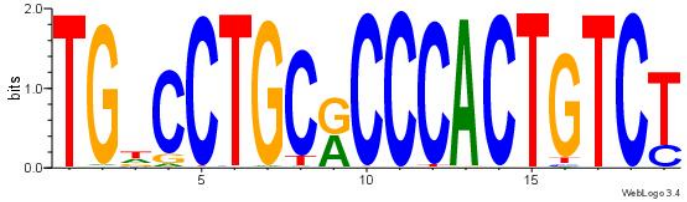

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0617389

Alignment:
CGCCGCCGCCGC
--CTGCAGCCTC

Original motif Consensus sequence: CGCCGCCGCCGC

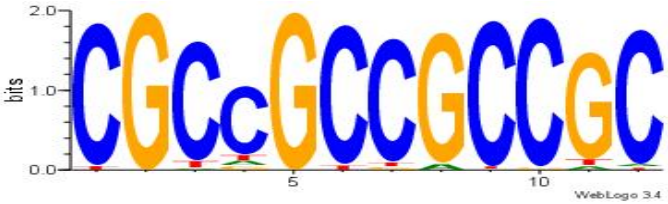

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

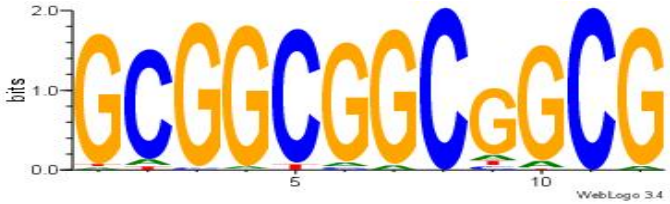

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0640858

Alignment:
CTASAACCTCCA
CTGCAGCCTC--

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

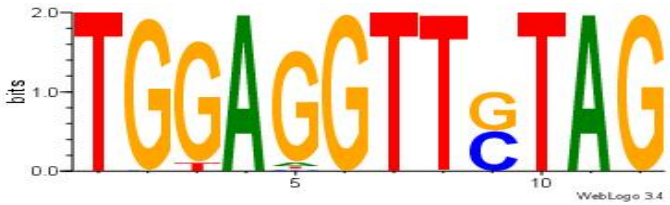

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0677996

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
------CTGCAGCCTC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

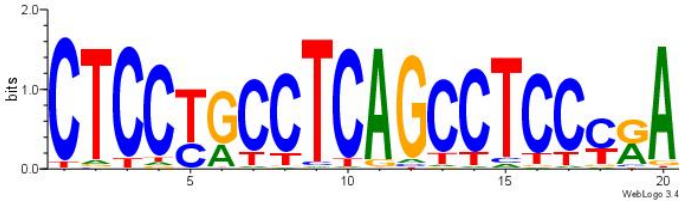

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

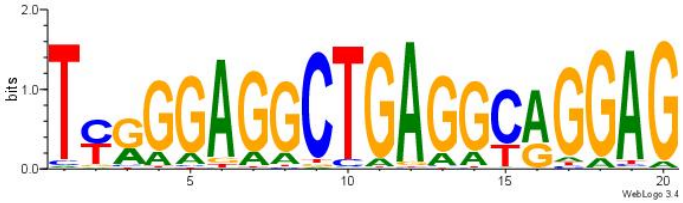

Dataset #: 1

Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0685634

Alignment:

```
TGCTGCTGCTGC
--CTGCAGCCTC
```

Original motif Consensus sequence: GCAGCAGCAGCA

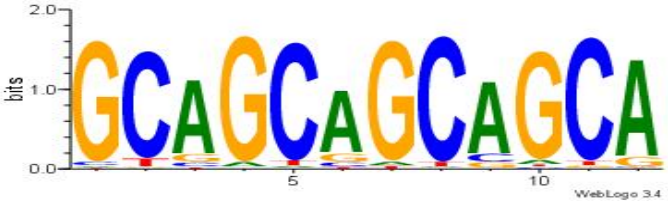

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

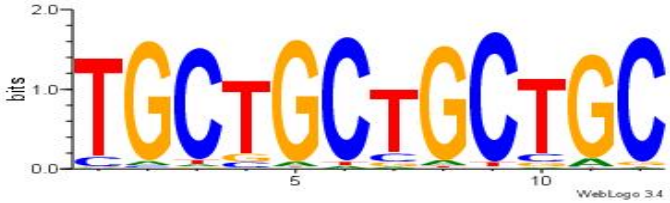

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0694613

Alignment:
GGAGGCKGAGG
-GAGGCTGCAG

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0695218

Alignment:
CATTCTGGGGTCTGGAGGAY
-------GAGGCTGCAG---

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

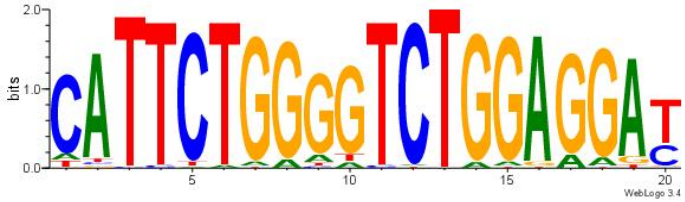

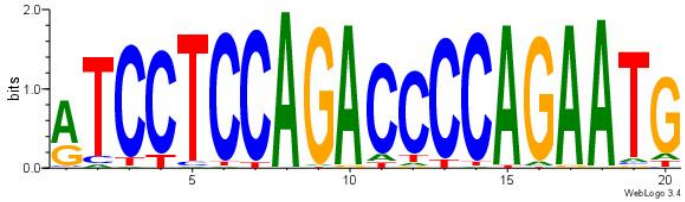

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0716273

Alignment:

```
GKCTGTACCCCCATTGTAT
-------CTGCAGCCTC--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

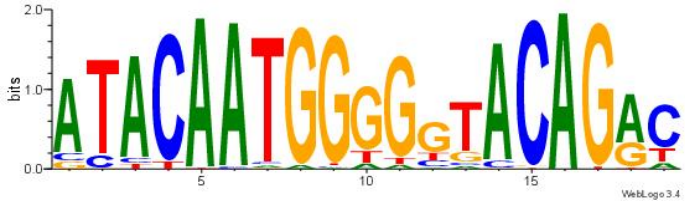

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

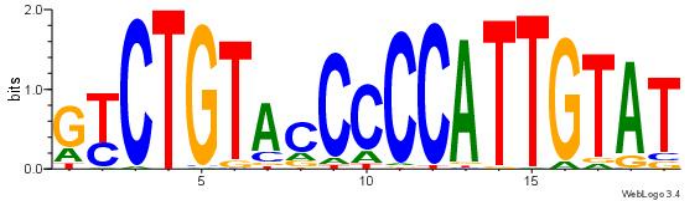

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0717266

Alignment:

```
TAGATAATAGCTCCAGCTTT
----------CTGCAGCCTC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

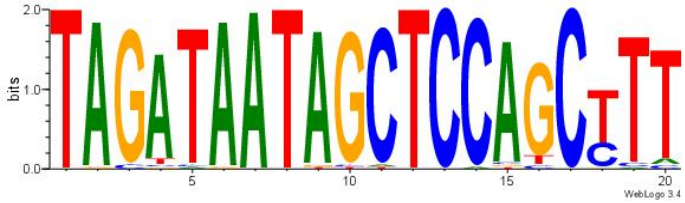

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

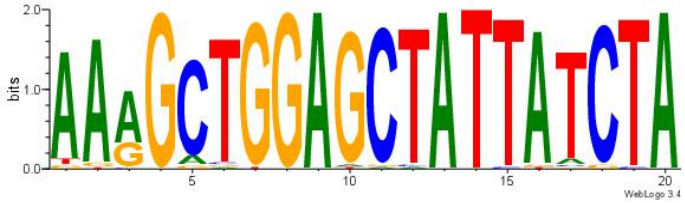

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0766778

Alignment:
CCTGTAATCCCAGC
---CTGCAGCCTC-

Original motif Consensus sequence: GCTGGGATTACAGG

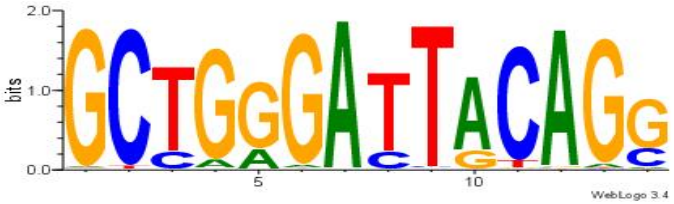

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #: 1
Motif ID: 229
Motif name: Motif 229
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0767977

Alignment:
GCCTTGCTGCCGC
---CTGCAGCCTC

Original motif Consensus sequence: GCCTTGCTGCCGC

Reverse complement motif Consensus sequence: GCGGCAGCAAGG

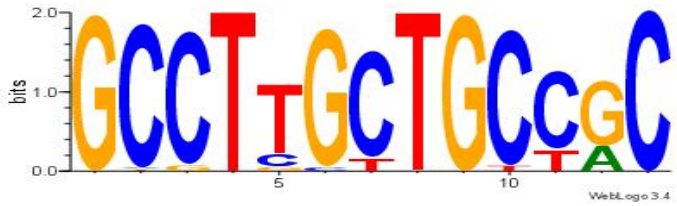

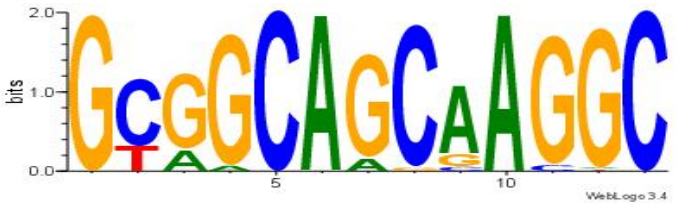

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0770549

Alignment:

```
CCCMKGGCACCCTCAGTCCT
----CTGCAGCCTC------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

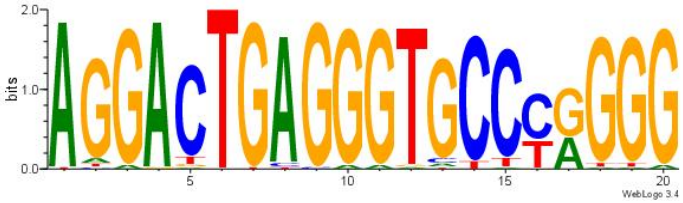

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

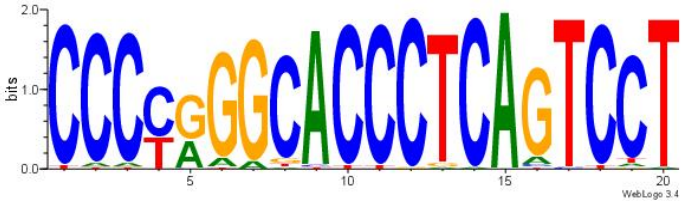

Dataset #: 1

Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0778486

Alignment:

```
GATGTGTCTGGAG
---GAGGCTGCAG
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

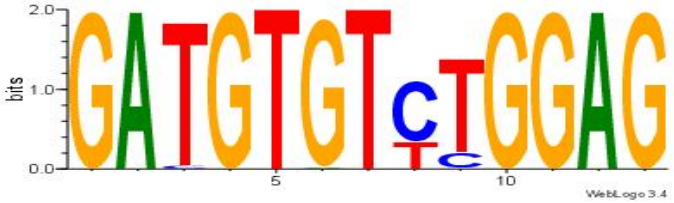

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0800113

Alignment:
CTGGGCTCCTGAGTCTGGTG
GAGGCTGCAG----------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

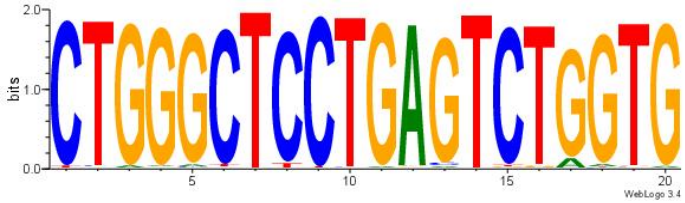

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

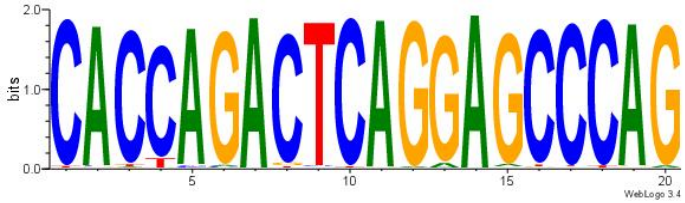

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0806408

Alignment:
AAGCTGAGGGAGCCGGCTCC
-----GAGGCTGCAG-----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

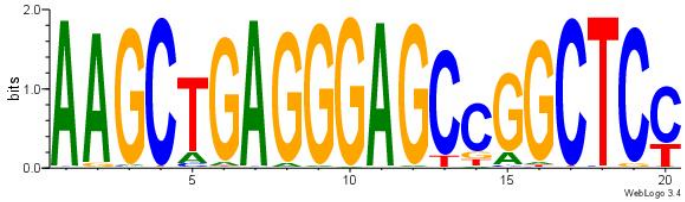

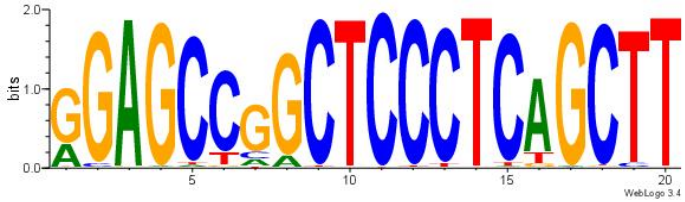

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0810257

Alignment:

```
CAGGCGGCTGGGAG
GAGGCTGCAG----
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

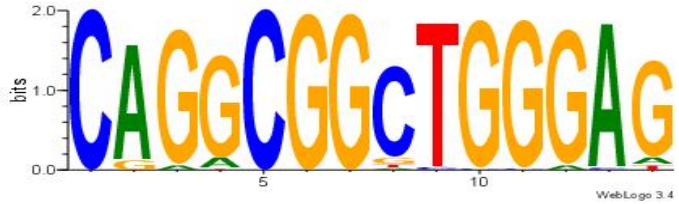

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

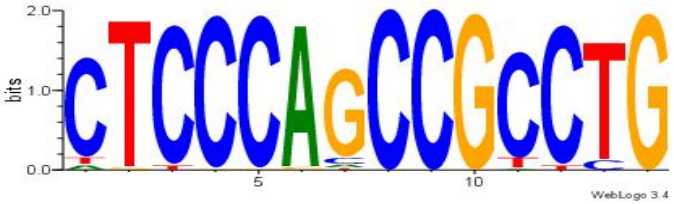

Dataset #:	1
Motif ID:	240

Motif name:	Motif 240
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0816456

Alignment:

```
GGGACWGCACAT
GAGGCTGCAG--
```

Original motif Consensus sequence: ATGTGCWGTCCC

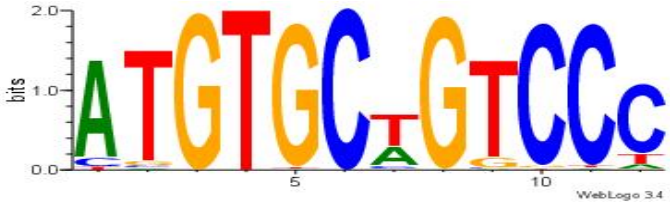

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0823863

Alignment:
CTCCAGKTMCATCCATGTTG
----------CTGCAGCCTC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

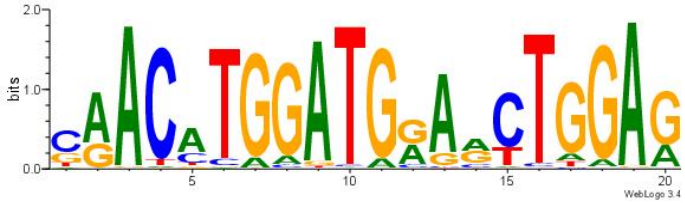

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

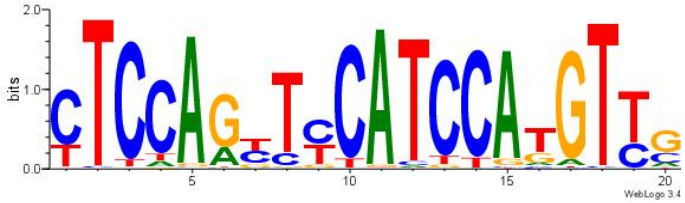

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0831681

Alignment:
ATGTGGAGGTGGAAGACAGT
-----GAGGCTGCAG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

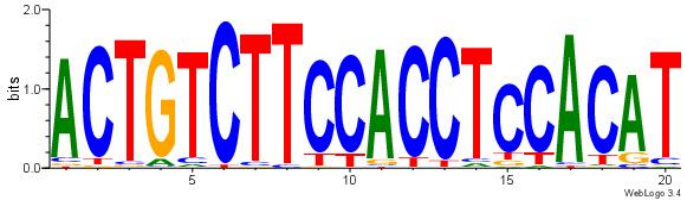

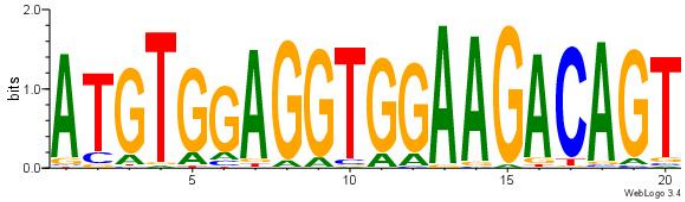

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0832048

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
---CTGCAGCCTC-------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

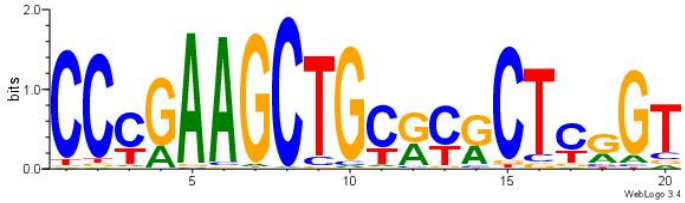

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

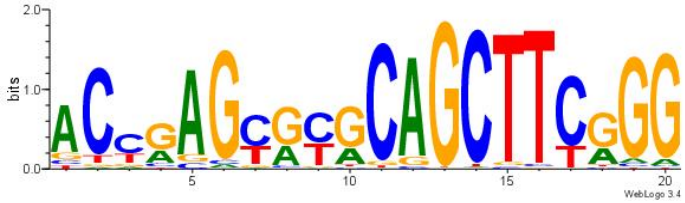

Dataset #:	1

Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0833206

Alignment:

```
TATGAGCCTGTAA
---GAGGCTGCAG
```

Original motif Consensus sequence: TATGAGCCTGTAA

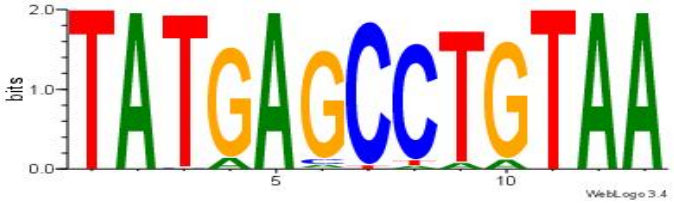

Reverse complement motif Consensus sequence: TTACAGGCTCATA

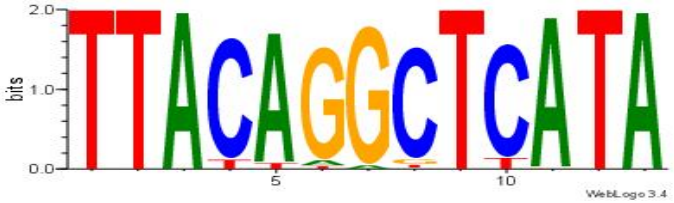

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0843278

Alignment:
CCCTGCTAGAACCTCCAA
-----CTGCAGCCTC---

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

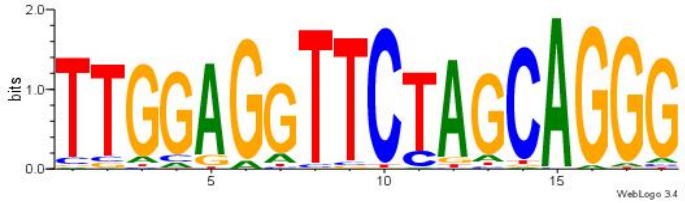

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0853699

Alignment:
CCAAGACYCCAGAC
--GAGGCTGCAG--

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

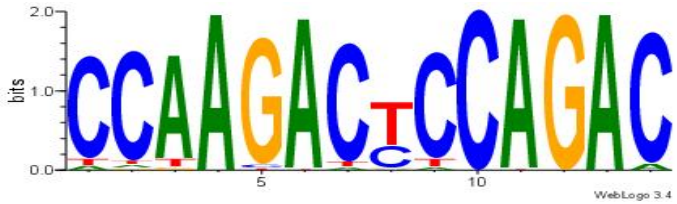

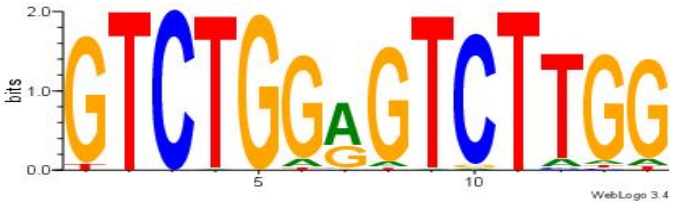

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0855914

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----GAGGCTGCAG-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

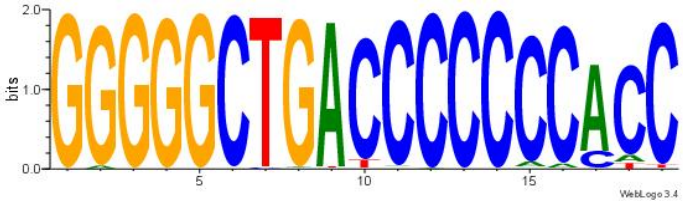

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

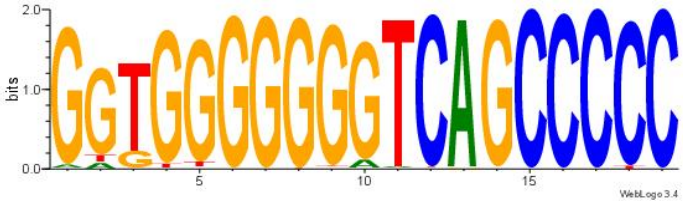

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0872152

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
---GAGGCTGCAG-------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

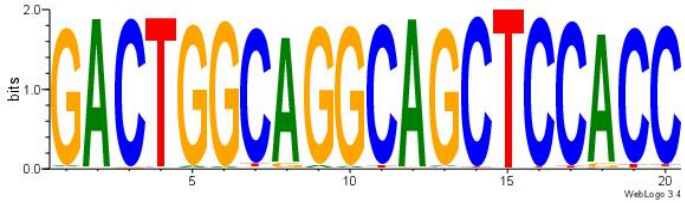

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

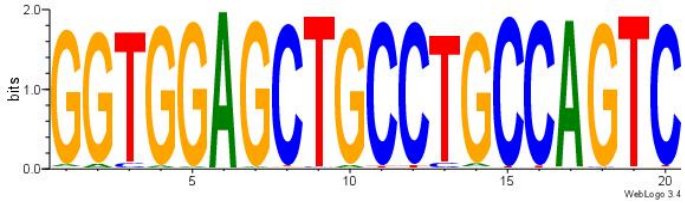

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10

Similarity score: 0.0877045

Alignment:
GGCACTGCTGGGGGACCCAG
----------GAGGCTGCAG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

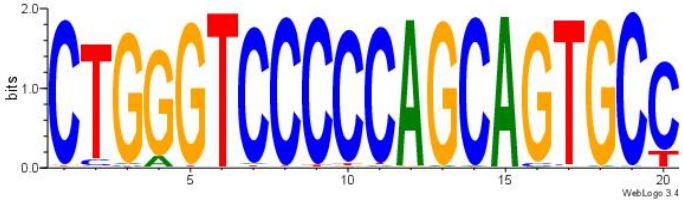

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

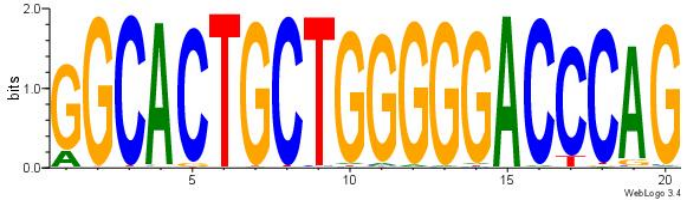

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0877391

Alignment:
GCTGGCCCGCAAGCGCCGCG
------CTGCAGCCTC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

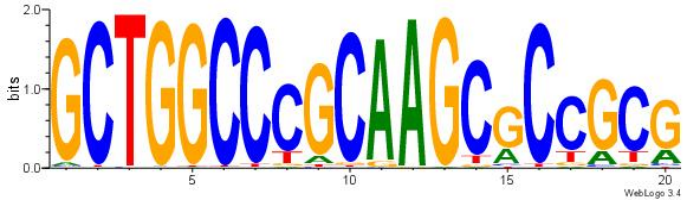

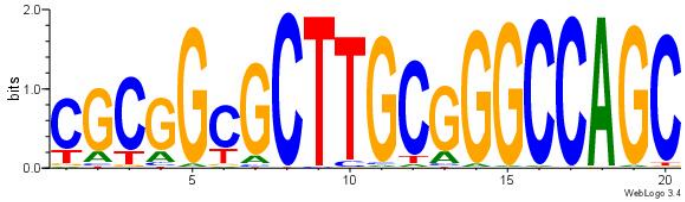

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.087943

Alignment:

```
TATTTACAGCTGCT
---CTGCAGCCTC-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

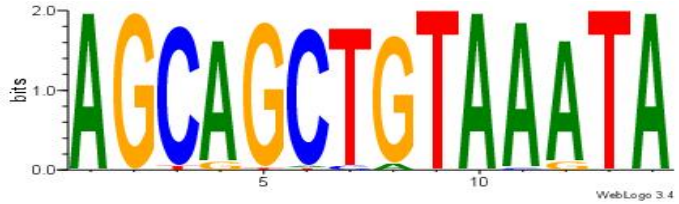

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

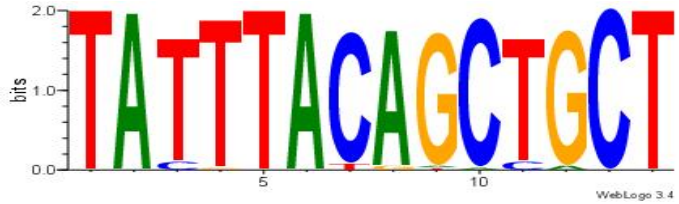

Dataset #:	1
Motif ID:	125

Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0885377

Alignment:

```
CGCCCGGCCAGCCGC
-----CTGCAGCCTC
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

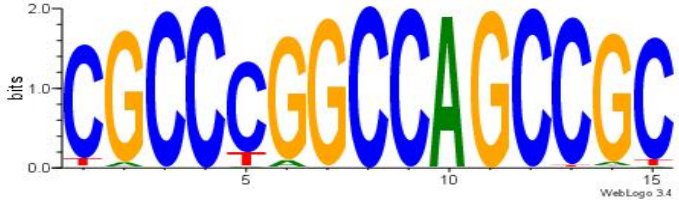

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

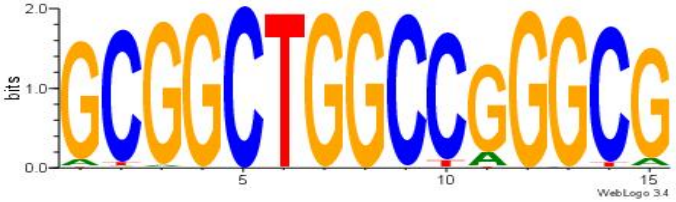

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0885567

Alignment:
GTAGACKGGAGCTGTTCCT
-GAGGCTGCAG--------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

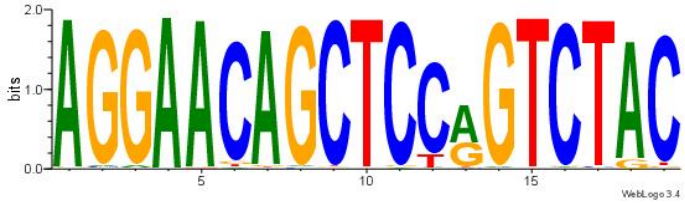

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

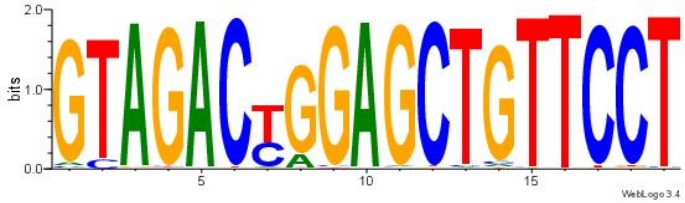

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0886171

Alignment:
AGGCGGCTGGGAGG
--GAGGCTGCAG--

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

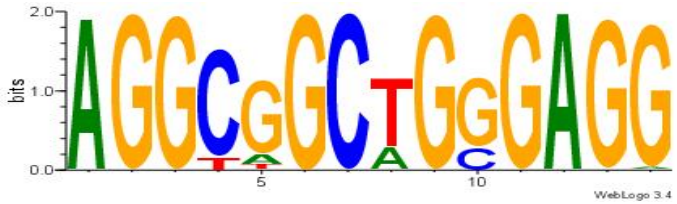

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0895639

Alignment:

```
AAGGAACAAACTCCRGACAC
----------CTGCAGCCTC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

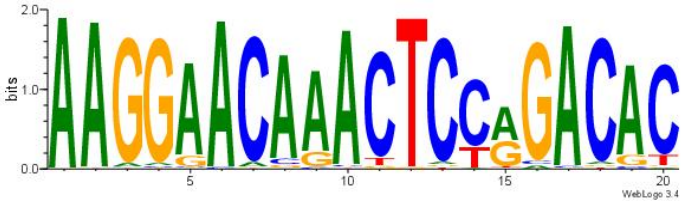

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

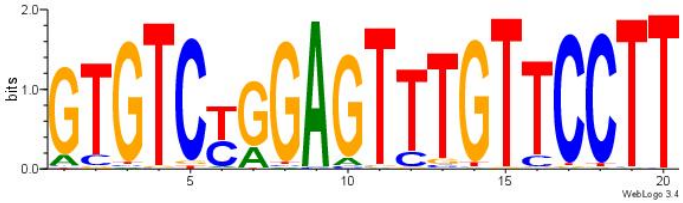

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0898199

Alignment:

```
GACTTCAAGAATGAAGCCG
---GAGGCTGCAG------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

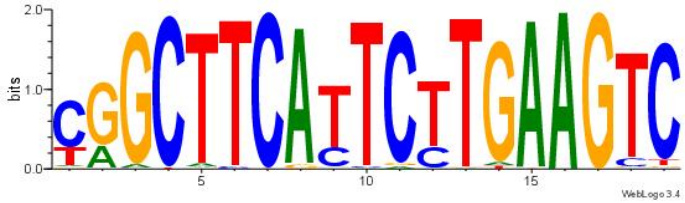

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.089872

Alignment:
TCAGGAGTGAAGCTGC
------CTGCAGCCTC

Original motif Consensus sequence: GCAGCTTCACTCCTGA

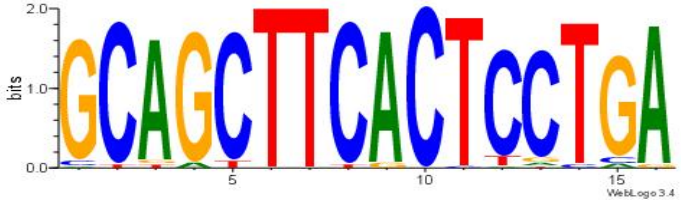

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

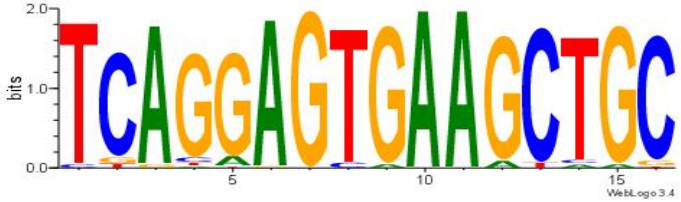

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0912672

Alignment:
GCTGGAGTGCAGTG
--GAGGCTGCAG--

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

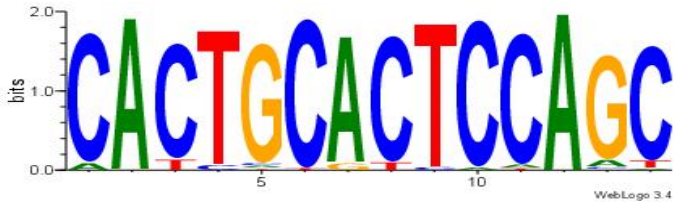

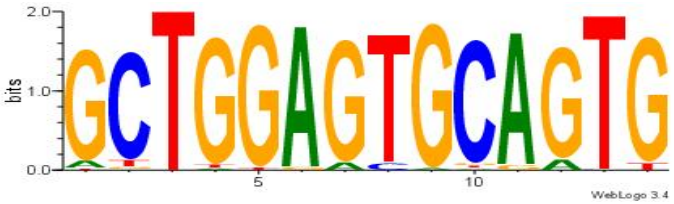

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0923849

Alignment:

```
GAATACCTCCTGAAGGACCT
-CTGCAGCCTC---------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

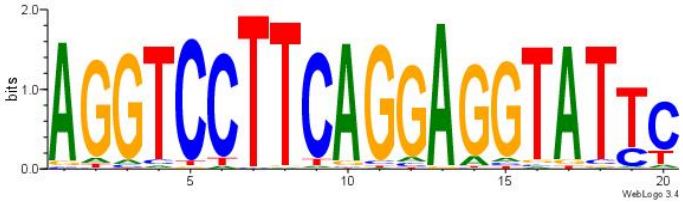

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

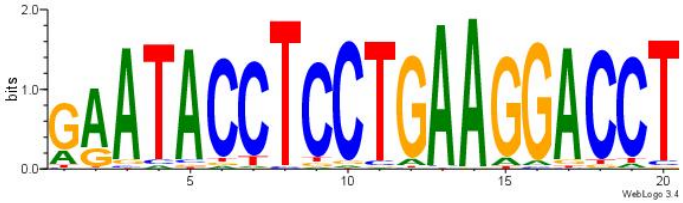

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0925847

Alignment:

```
TCKMGCCACTGCACTCCAGC
--CTGCAGCCTC--------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

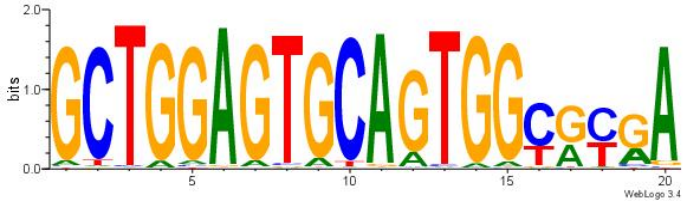

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

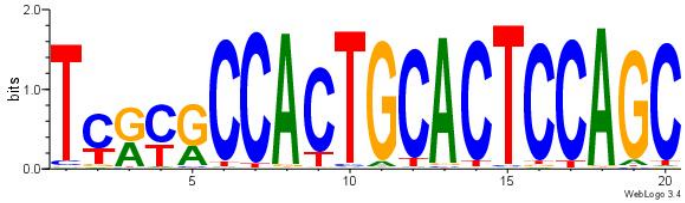

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0937192

Alignment:
GGAGGTGTGGAGGGAGAGGC
------GAGGCTGCAG----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

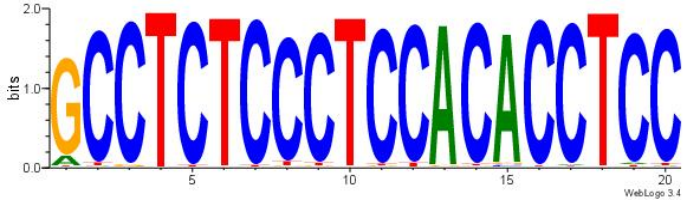

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

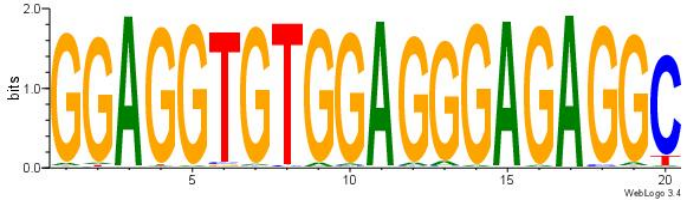

Dataset #: 1
Motif ID: 1
Motif name: Motif 1
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.093798

Alignment:
BCVTCTGTCACCCC
CTGCAGCCTC----

Original motif Consensus sequence: GGGGTGACAGABGB

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

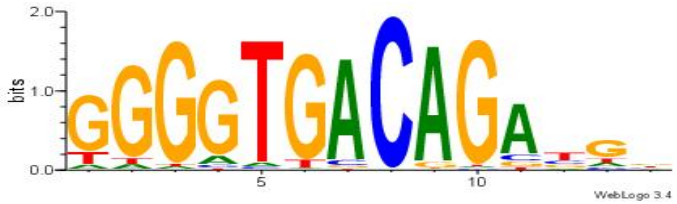

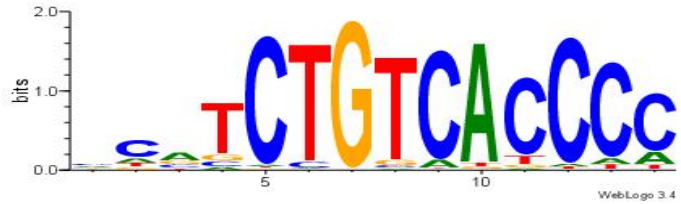

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0941066

Alignment:

```
TGATGGGTGCACCAAA
--GAGGCTGCAG----
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

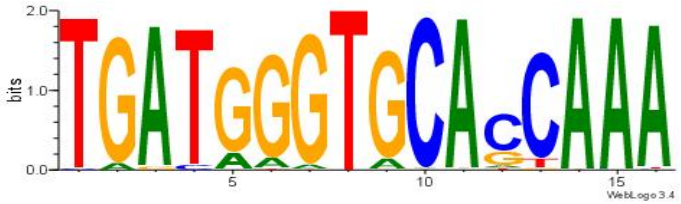

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

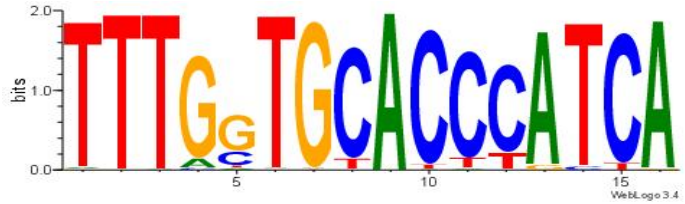

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0943764

Alignment:

```
TCTGGAGTGGACCTCCAGCA
--------GAGGCTGCAG--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

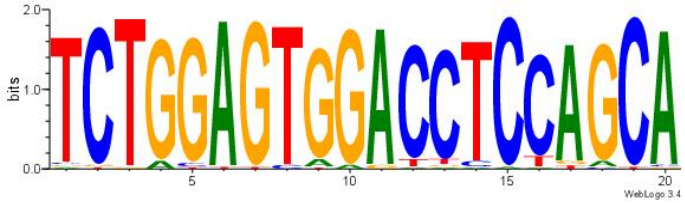

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

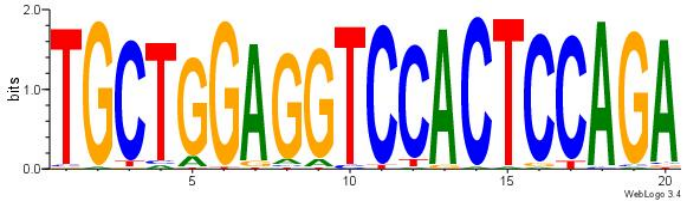

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0949007

Alignment:
ACTCAGCCCRCCTGCACCC
--GAGGCTGCAG-------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

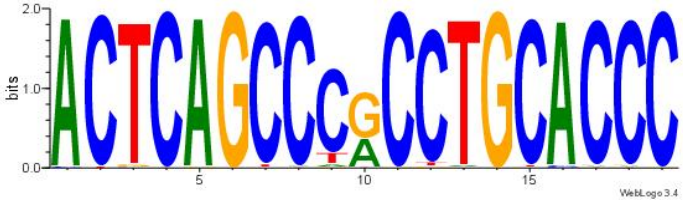

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

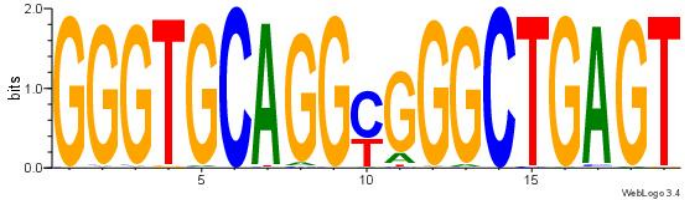

Dataset #: 1
Motif ID: 133
Motif name: Motif 133
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0951068

Alignment:
CTGYGTCCCCA
CTGCAGCCTC-

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

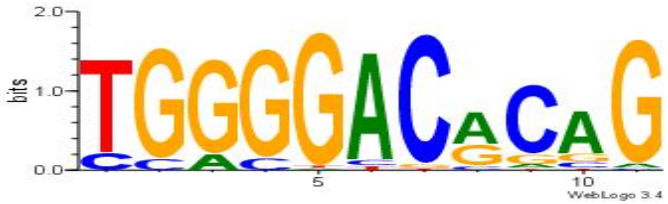

Dataset #: 1 Motif ID: 142 Motif name: Motif 142

Original motif Consensus sequence: CAGATGTC

Reverse complement motif Consensus sequence: GACATCTG

Best Matches for Significant Motif ID 142 (Highest to Lowest)

Dataset #:	1
Motif ID:	272
Motif name:	Motif 272
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0284091

Alignment:

```
CAGCTGTCAC
CAGATGTC--
```

Original motif Consensus sequence: CAGCTGTCAC

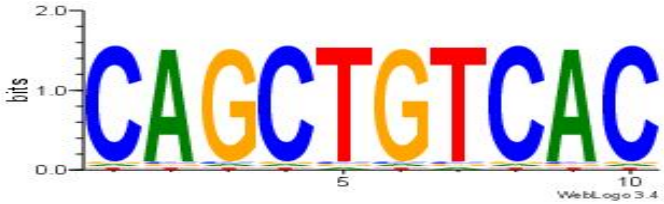

Reverse complement motif Consensus sequence: GTGACAGCTG

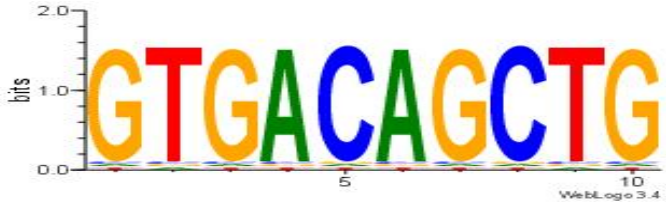

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0407488

Alignment:

```
GCACATGTCGCT
-CAGATGTC---
```

Original motif Consensus sequence: AGCGACATGTGC

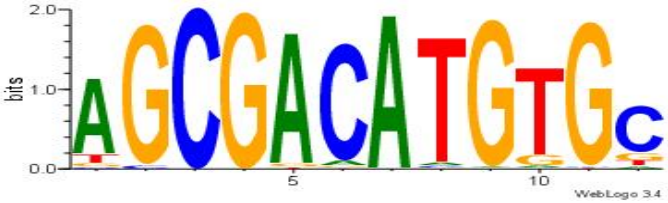

Reverse complement motif Consensus sequence: GCACATGTCGCT

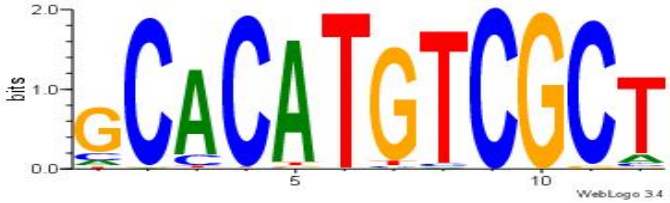

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0533279

Alignment:

```
CTCRAATGTCCCTT
--CAGATGTC----
```

Original motif Consensus sequence: AAGGGACATTKGAG

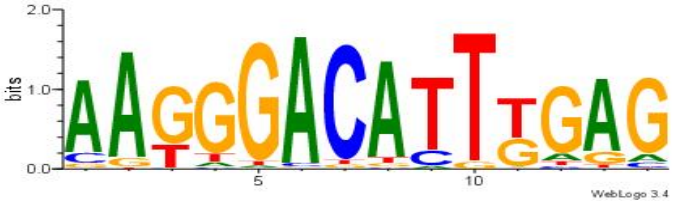

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

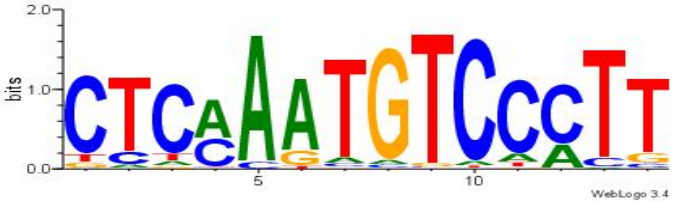

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8

Similarity score: 0.0568181

Alignment:
GGTGATTTCTG
---GACATCTG

Original motif Consensus sequence: CAGAAATCACC

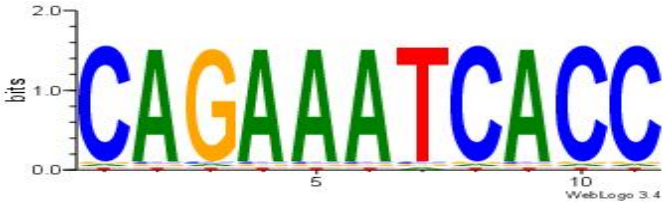

Reverse complement motif Consensus sequence: GGTGATTTCTG

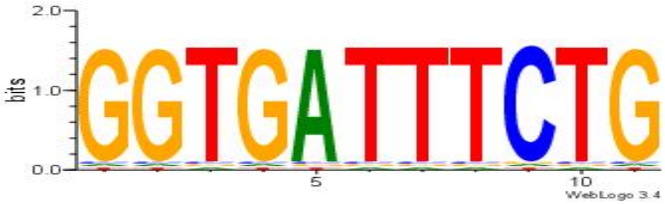

Dataset #: 1
Motif ID: 334
Motif name: Motif 334
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0568181

Alignment:
CATCTGTCAC
CAGATGTC--

Original motif Consensus sequence: CATCTGTCAC

Reverse complement motif Consensus sequence: GTGACAGATG

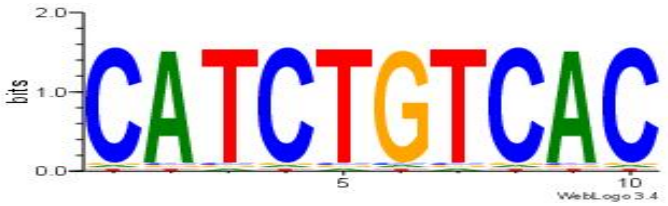

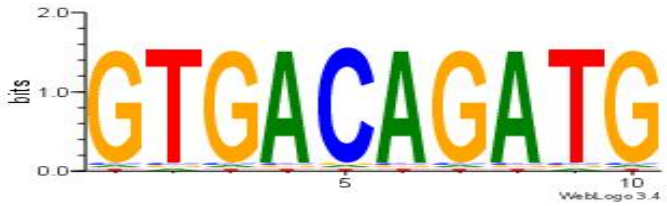

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0633094

Alignment:

```
AGAGCTCTGGCTGGCATCT
-GACATCTG----------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

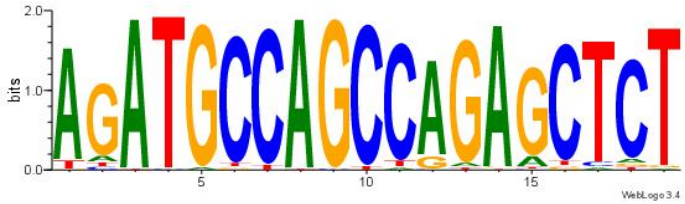

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

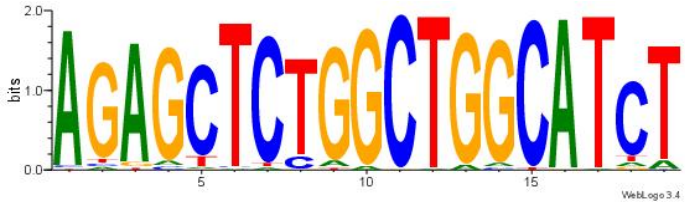

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0659801

Alignment:

```
AAGTTCTKGGKTACATGTGC
-----------GACATCTG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

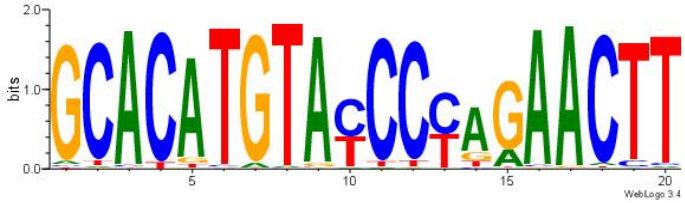

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

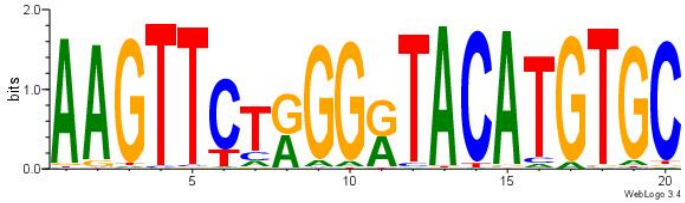

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8

Similarity score: 0.0665906

Alignment:
ACAGCTGGCACC
-CAGATGTC---

Original motif Consensus sequence: ACAGCTGGCACC

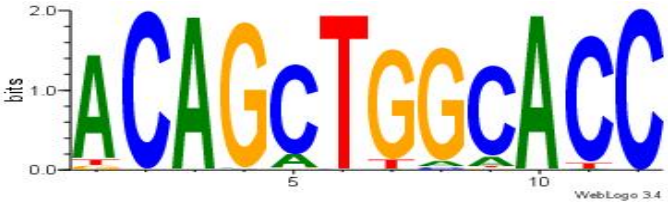

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

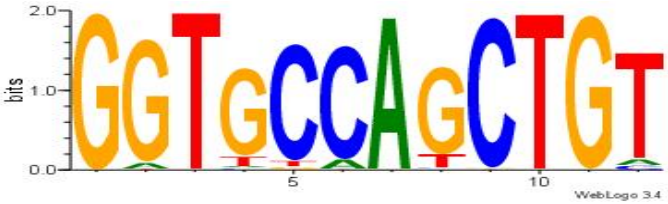

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0672816

Alignment:
TAMGACCTCAGGTCCTCAG
---GACATCTG--------

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

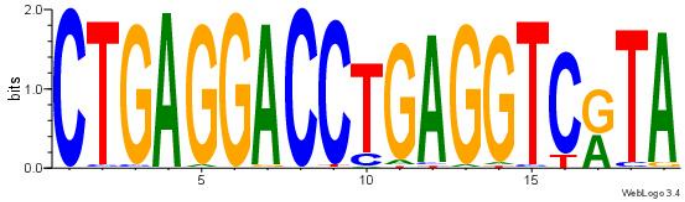

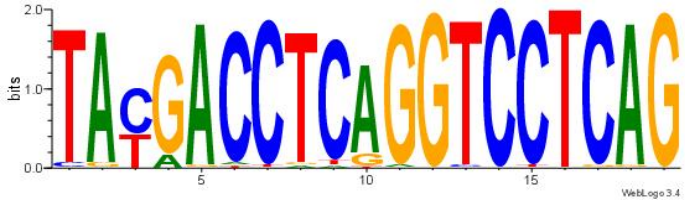

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0673409

Alignment:

```
ATTCAASATGAGATTTGGG
---------GACATCTG--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

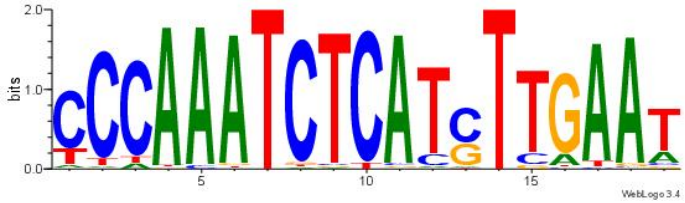

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

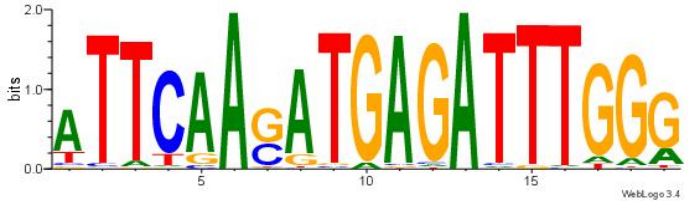

Dataset #: 1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.067656

Alignment:

```
AGAAAGGCATGTGAAAA
-----GACATCTG----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

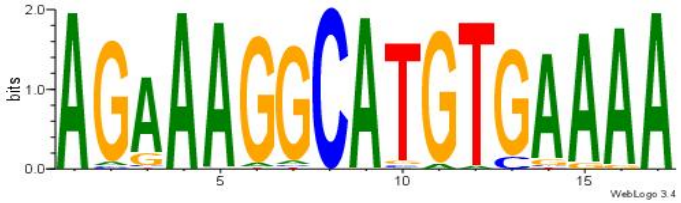

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

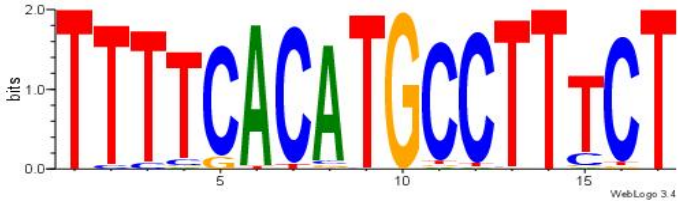

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	8

Similarity score: 0.0682308

Alignment:
CCTAGATTTCAGARGATGT
--CAGATGTC---------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

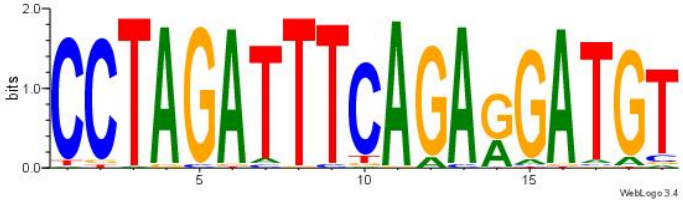

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

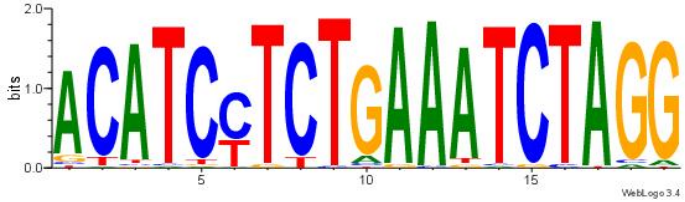

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 8
Similarity score: 0.0690063

Alignment:
GAAHCAACCKAAKTGTCCAT
---CAGATGTC---------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

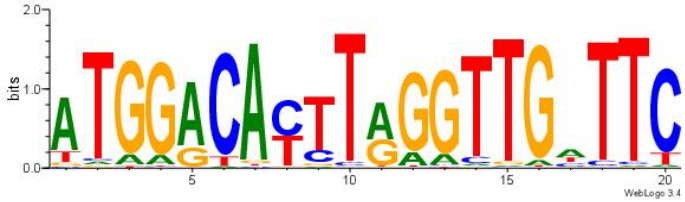

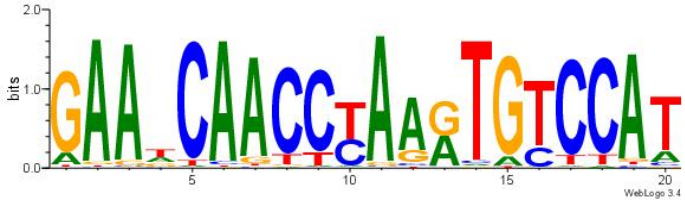

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.069089

Alignment:

```
AGCAGCTGTAAATA
--CAGATGTC----
```

Original motif Consensus sequence: AGCAGCTGTAAATA

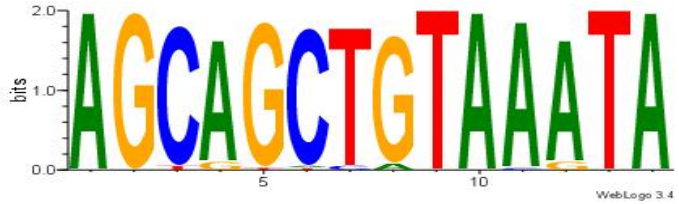

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

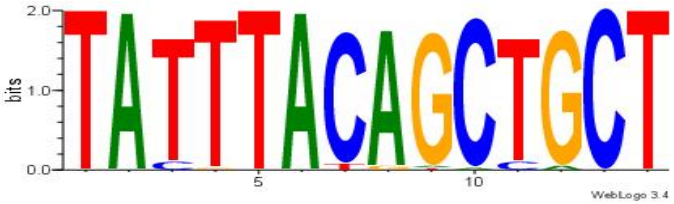

Dataset #:	1
Motif ID:	279

Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0695553

Alignment:

```
MGTGTGATGTCTCCCCC
---CAGATGTC------
```

Original motif Consensus sequence: GGGGGAGACATCACACR

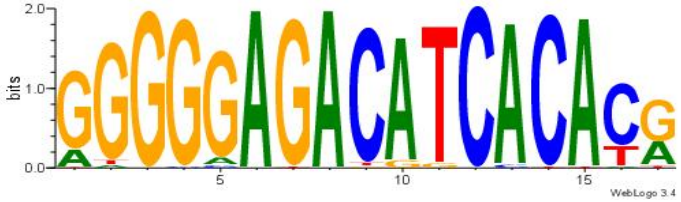

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

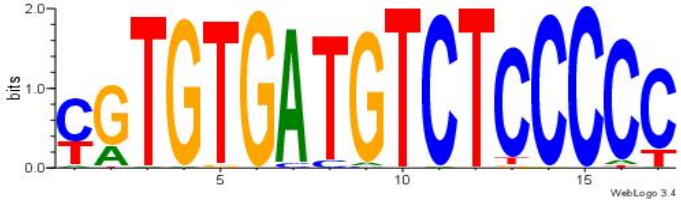

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0696546

Alignment:
GACATGAGCTGGCGCTTG
GACATCTG----------

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

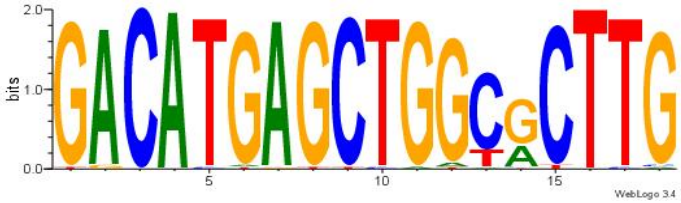

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

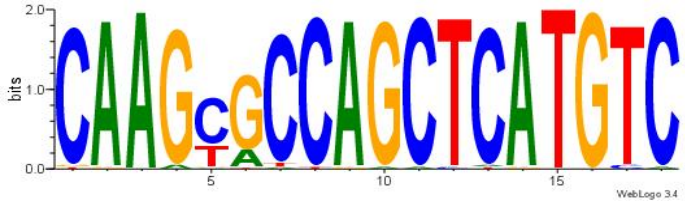

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0702976

Alignment:
CATAGGAGATGAC
-----CAGATGTC

Original motif Consensus sequence: CATAGGAGATGAC

Reverse complement motif Consensus sequence: GTCATCTCCTATG

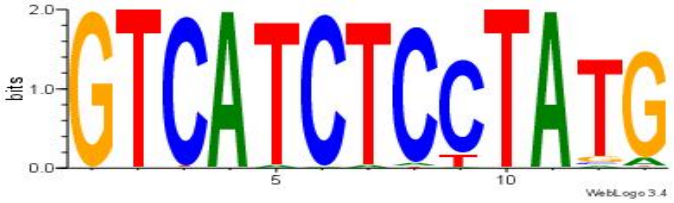

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0716498

Alignment:

```
AAGACGGGTGATTTCTG
---------GACATCTG
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

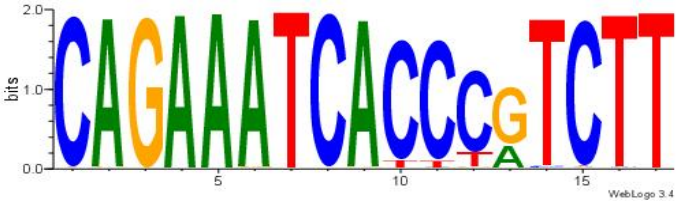

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

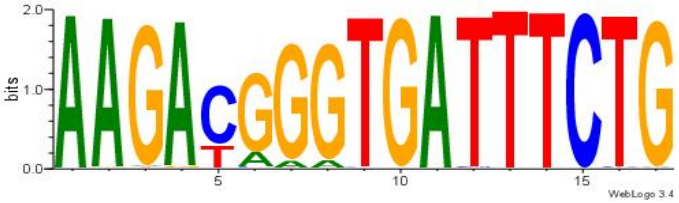

Dataset #: 1

Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0725603

Alignment:

```
ATTCGGCCATCTT
-----GACATCTG
```

Original motif Consensus sequence: AAGATGGCCGAAT

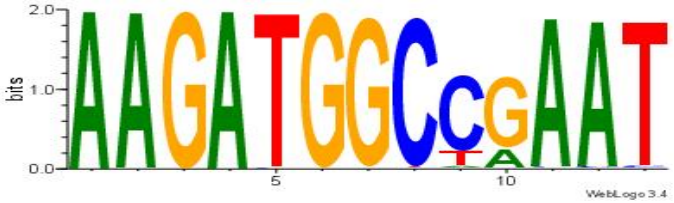

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

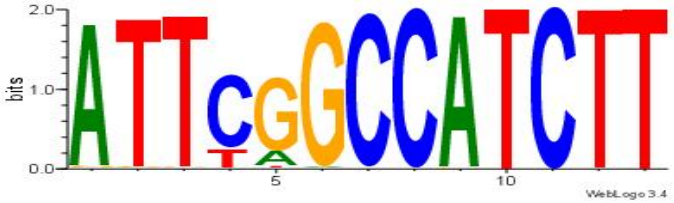

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0744009

Alignment:
CAGCCAGATCRSCC
----CAGATGTC--

Original motif Consensus sequence: CAGCCAGATCRSCC

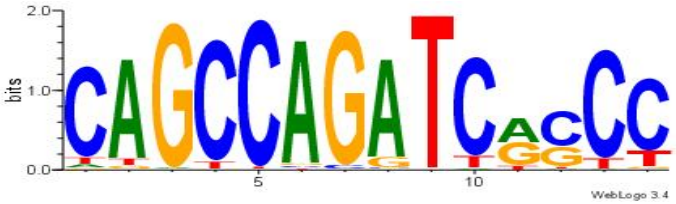

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

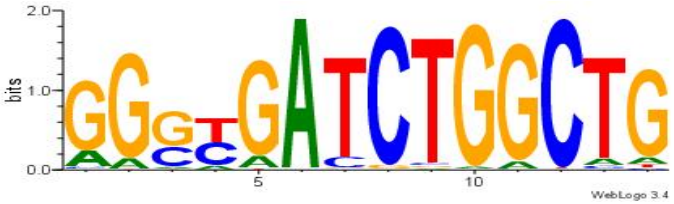

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0761047

Alignment:
CAAGATGGCGGC
-CAGATGTC---

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

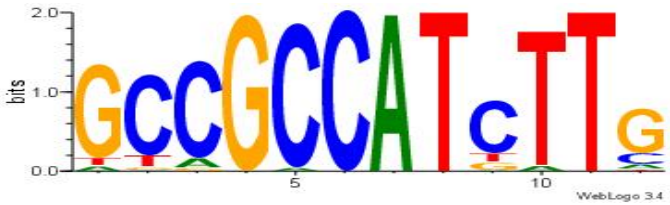

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0762444

Alignment:

```
CTGACTGGGAGACACCTCCC
----------GACATCTG--
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

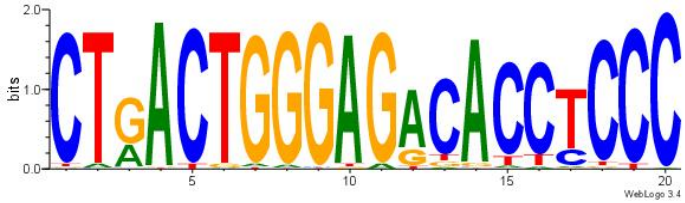

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

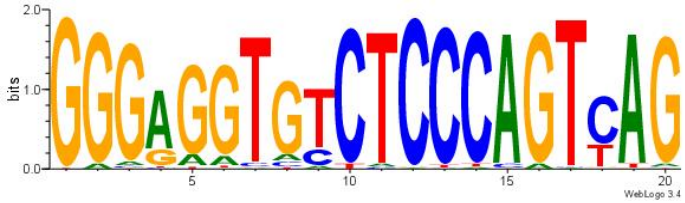

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0788382

Alignment:

```
CATTTCCAWCTGAGGTAC
------GACATCTG----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

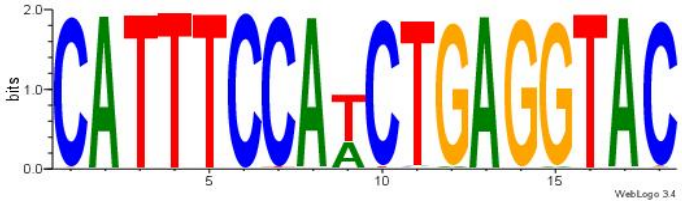

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

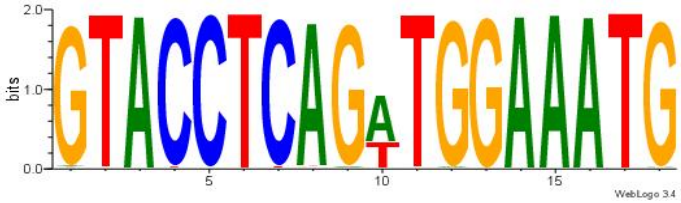

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8

Similarity score: 0.0822153

Alignment:
TAGTGGTGATTTSTGAGAT
-------GACATCTG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

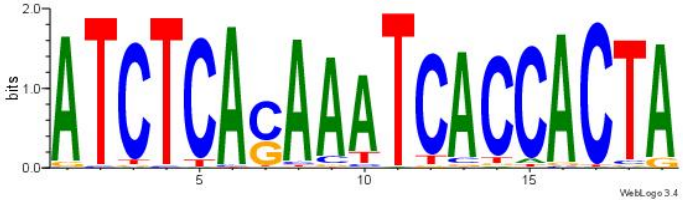

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

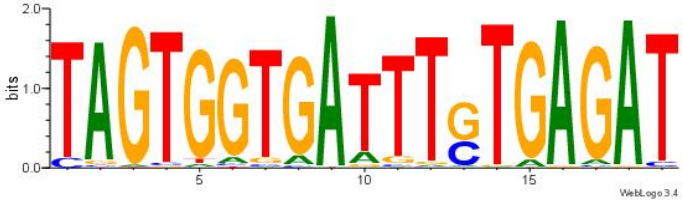

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 12
Number of overlap: 8
Similarity score: 0.0830118

Alignment:
GCAAAKGACATGATYTCATT
-CAGATGTC-----

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

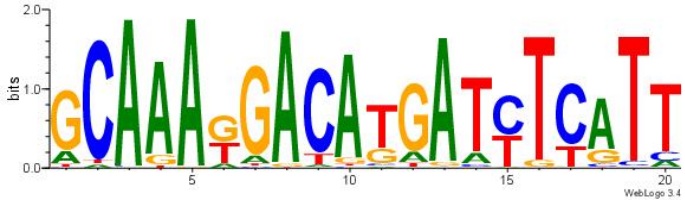

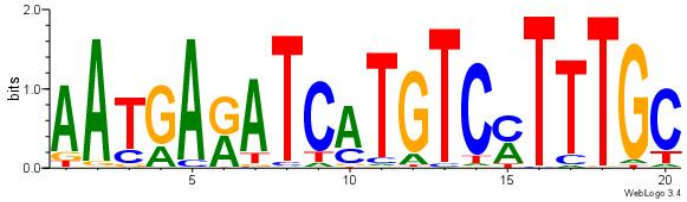

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
TTGAGGAGGCAGTCTG
--------GACATCTG
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

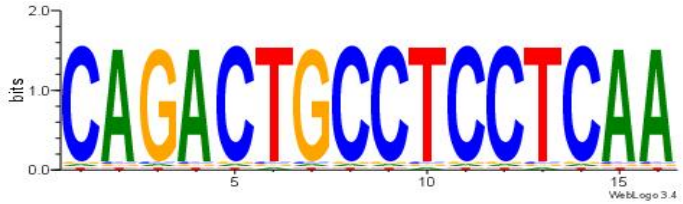

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

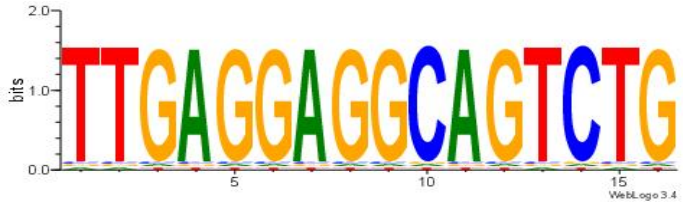

Dataset #: 1

Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
CTCAGACTGCT
-CAGATGTC--
```

Original motif Consensus sequence: AGCAGTCTGAG

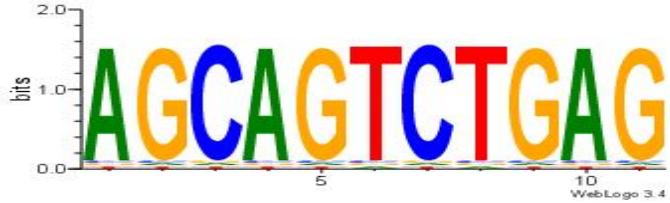

Reverse complement motif Consensus sequence: CTCAGACTGCT

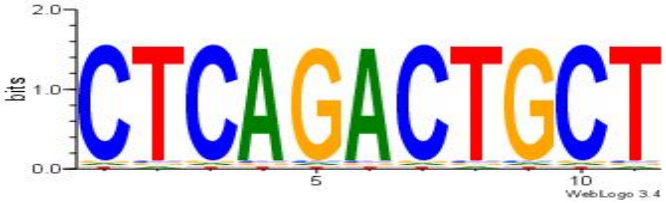

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
GCTTCCATGTG
---GACATCTG

Original motif Consensus sequence: CACATGGAAGC

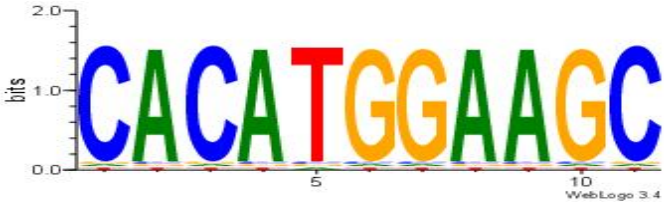

Reverse complement motif Consensus sequence: GCTTCCATGTG

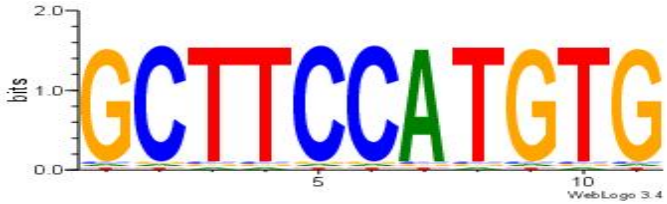

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
TACAGGTGCGT
--CAGATGTC-

Original motif Consensus sequence: ACGCACCTGTA

Reverse complement motif Consensus sequence: TACAGGTGCGT

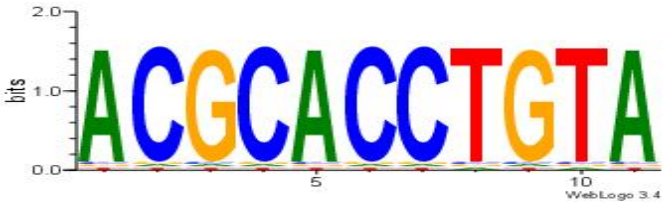

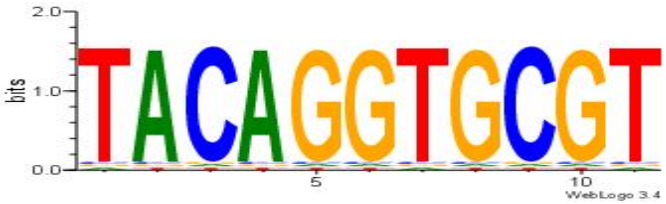

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0852944

Alignment:

```
BCVTCTGTCACCCC
-----CAGATGTC-
```

Original motif Consensus sequence: GGGGTGACAGABGB

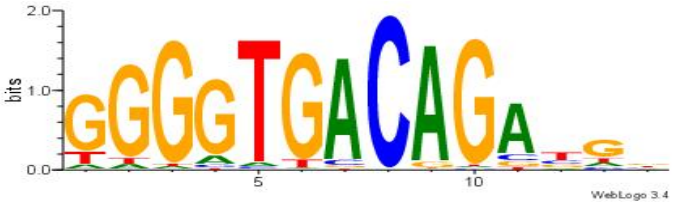

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

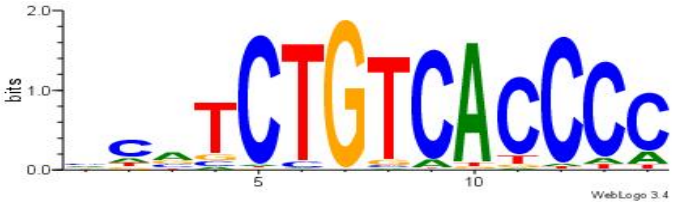

Dataset #:	1
Motif ID:	357

Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0872676

Alignment:

```
CAAGTTGACACATAAAATTA
------GACATCTG------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

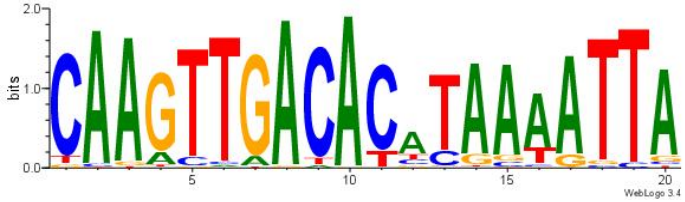

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

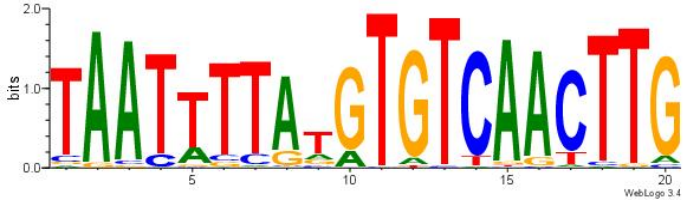

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0885017

Alignment:
GTGGCCCTCTTCTCACAGCT
---GACATCTG---------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

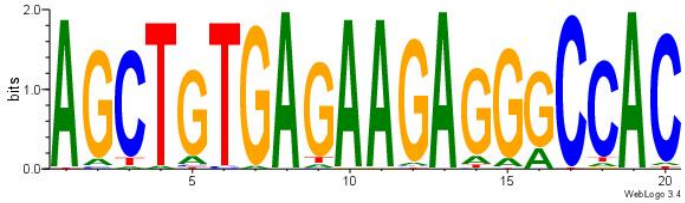

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

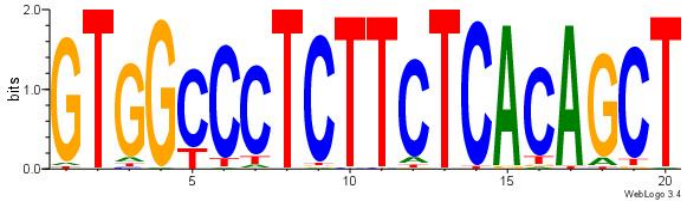

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0900497

Alignment:
ACACATCACAAAGCAGTTTC
-GACATCTG-----------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

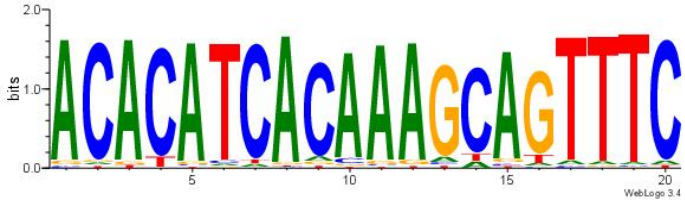

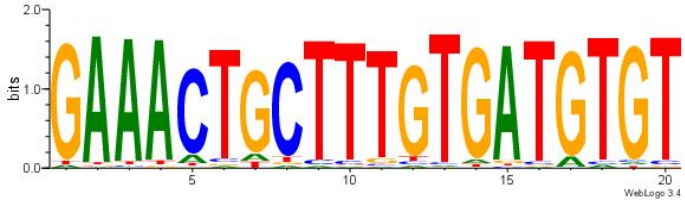

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0902899

Alignment:

```
GACTTCAAGAATGAAGCCG
GACATCTG-----------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

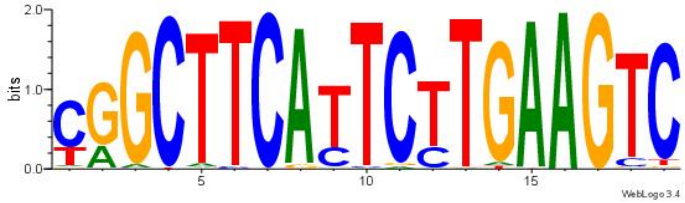

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0910581

Alignment:

```
CAAAGGCATAAGAATGAT
----GACATCTG------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

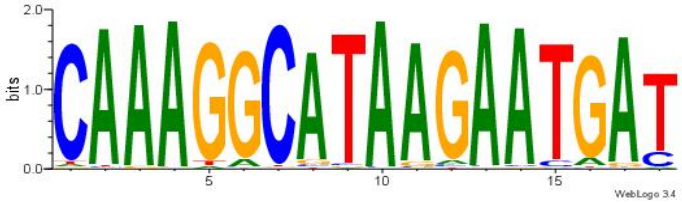

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

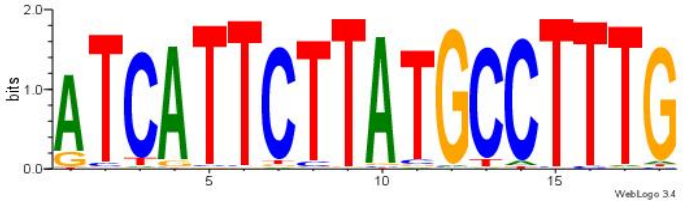

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8

Similarity score: 0.0910906

Alignment:
TCTGGAGTGGACCTCCAGCA
---------GACATCTG---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

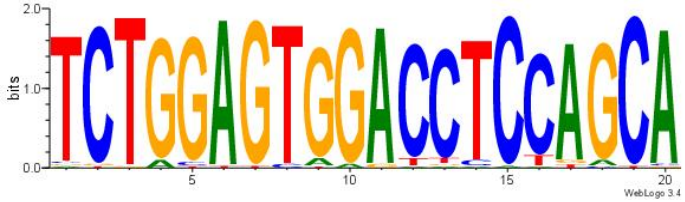

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

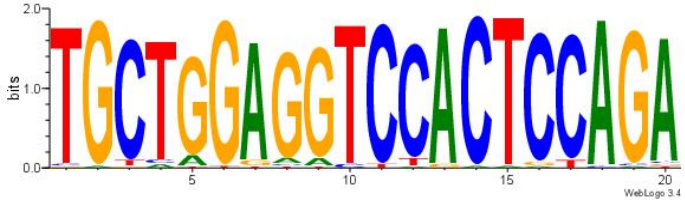

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0912261

Alignment:
TTMGTCCCAGAGGGGCACC
-------CAGATGTC----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

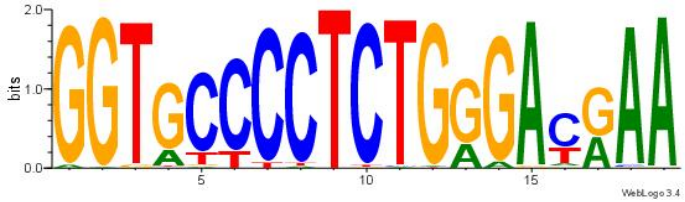

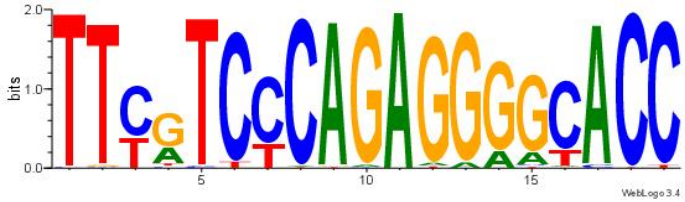

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0914055

Alignment:

```
TGTGACCTTGG
---GACATCTG
```

Original motif Consensus sequence: CCAAGGTCACA

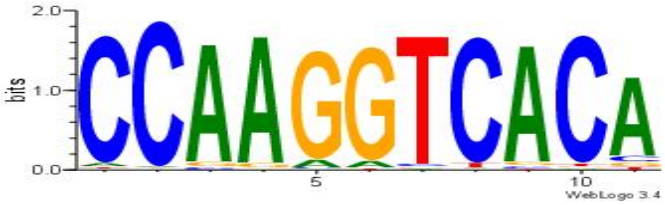

Reverse complement motif Consensus sequence: TGTGACCTTGG

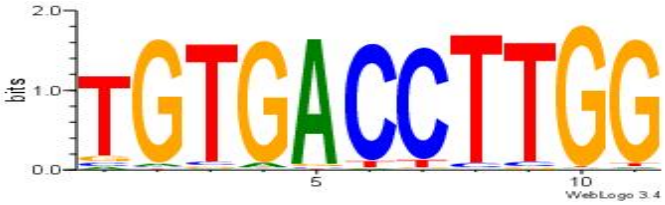

Dataset #:	1
Motif ID:	275

Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0914865

Alignment:

```
TTTAACTCTGTGAG
--GACATCTG----
```

Original motif Consensus sequence: CTCACAGAGTTAAA

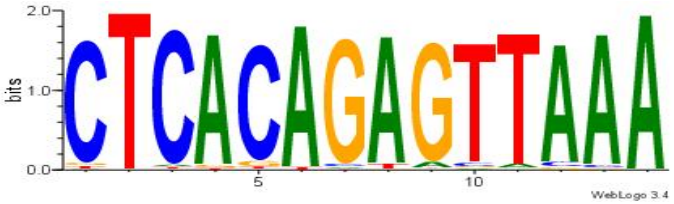

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

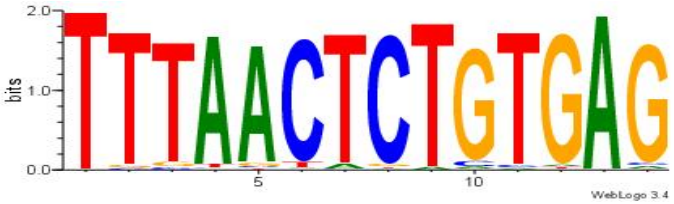

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.091775

Alignment:
ACATCTGYMMCC
-CAGATGTC---

Original motif Consensus sequence: ACATCTGYMMCC

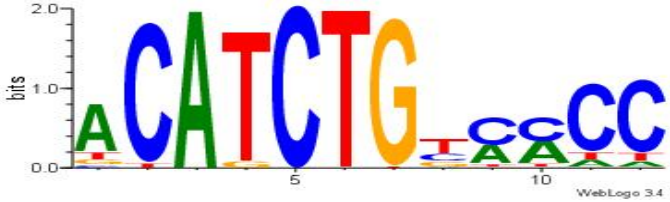

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0918279

Alignment:
CATTCTGGGGTCTGGAGGAY
------GACATCTG------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

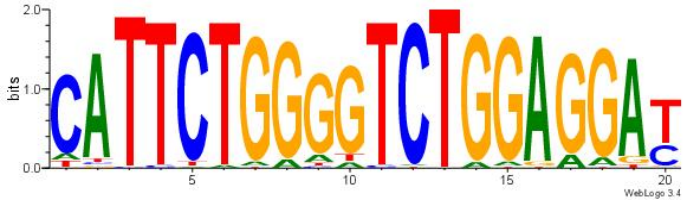

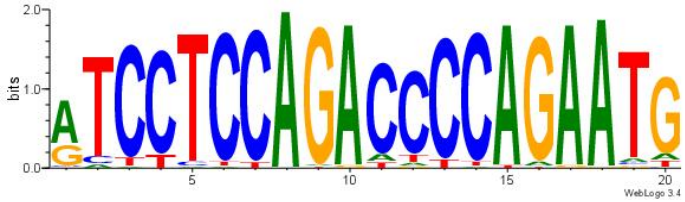

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0919082

Alignment:

```
AGTTCTTAAAGATGGT
--------CAGATGTC
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

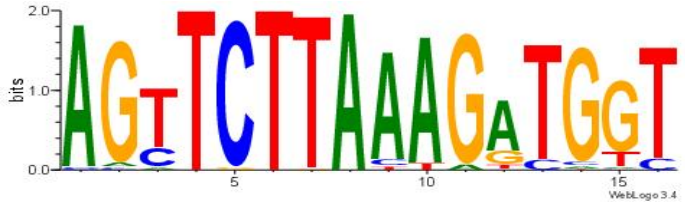

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

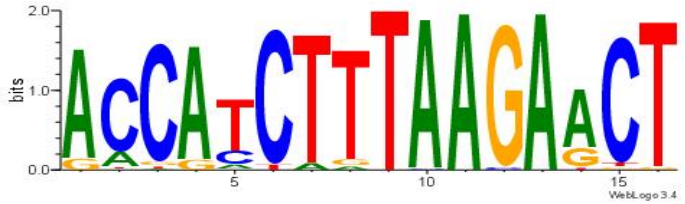

Dataset #:	1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0919228

Alignment:

```
GAGAACACATGGACA
---GACATCTG----
```

Original motif Consensus sequence: GAGAACACATGGACA

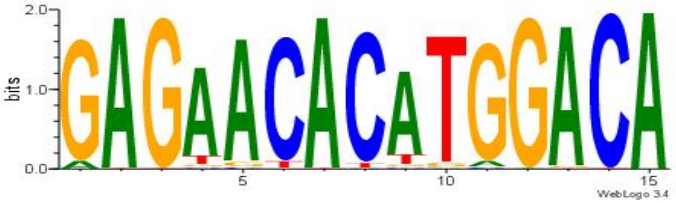

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

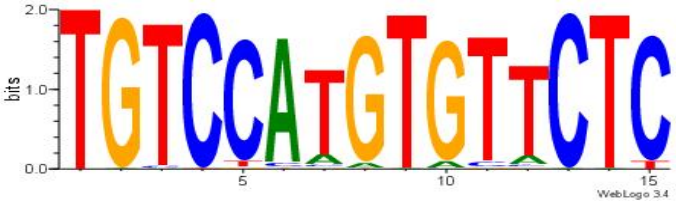

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.092148

Alignment:
AAAMAMMKMATGTTCTCACT
------CAGATGTC------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

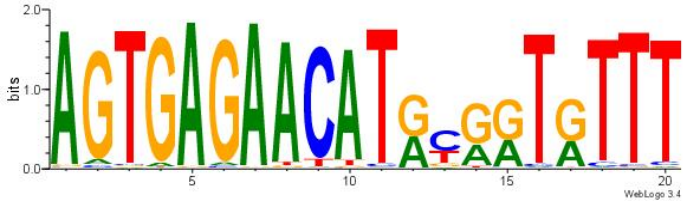

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

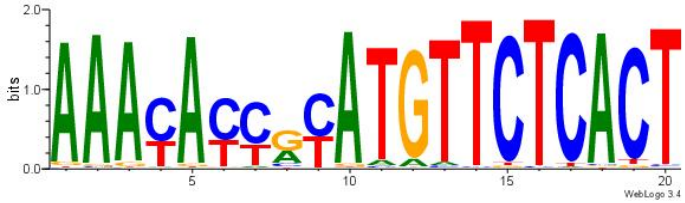

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0921778

Alignment:
AGGTTTGTTACATAGGTAWA
----GACATCTG--------

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

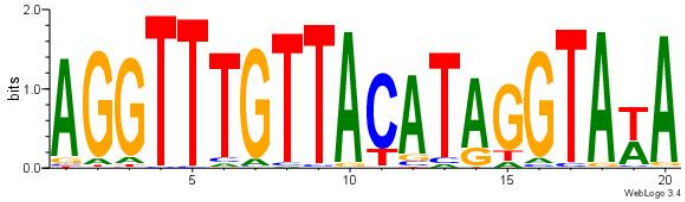

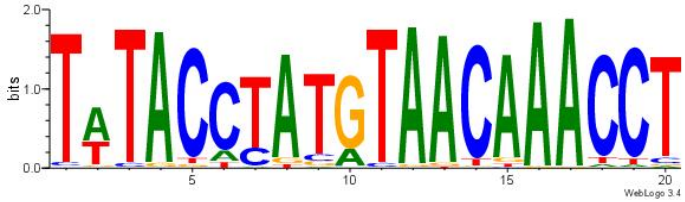

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0923129

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--------CAGATGTC----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

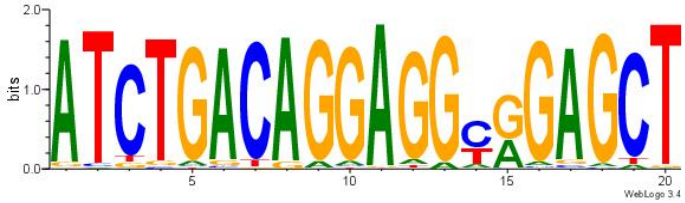

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

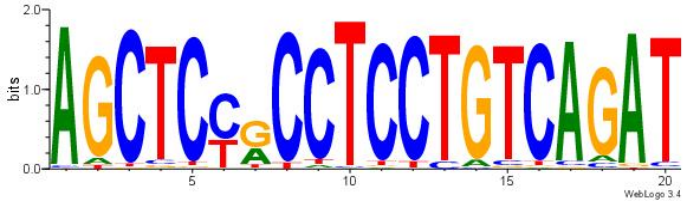

Dataset #:	1

Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0927189

Alignment:

```
GGGAGGGATATATTAGC
------GACATCTG---
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

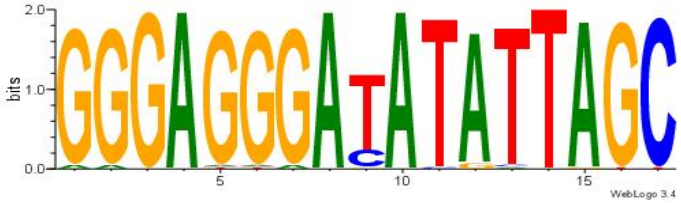

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

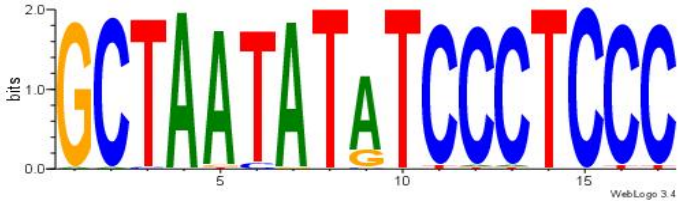

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8

Similarity score: 0.0927659

Alignment:
AGGGATCTAGGTTGCR
-GACATCTG-------

Original motif Consensus sequence: AGGGATCTAGGTTGCR

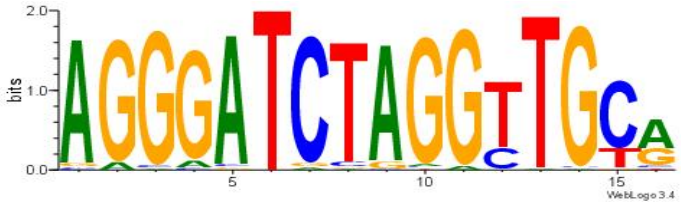

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

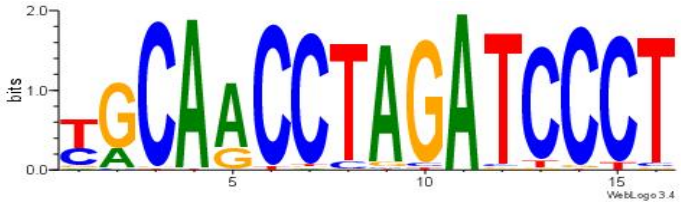

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0930661

Alignment:
GCCAATTTCTCCCATTTGGA
-CAGATGTC-----------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

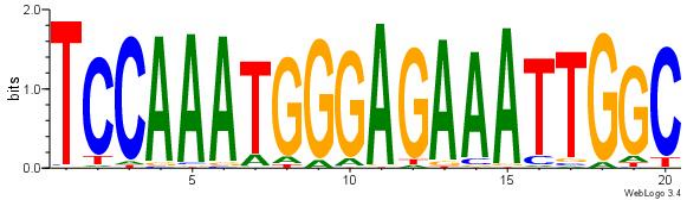

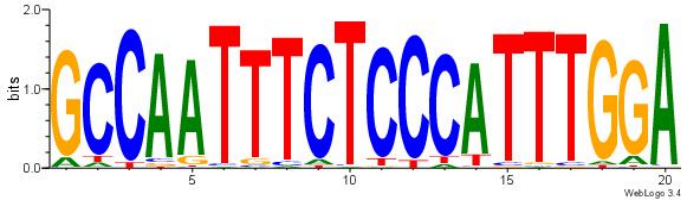

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0931366

Alignment:

```
CCCTACTGTTCTCY
-----CAGATGTC-
```

Original motif Consensus sequence: CCCTACTGTTCTCY

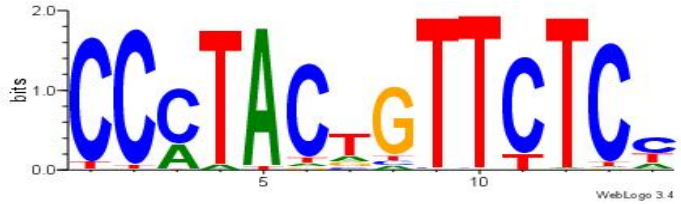

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #: 1 Motif ID: 173 Motif name: Motif 173

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

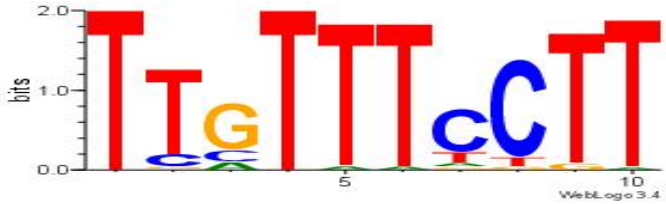

Best Matches for Significant Motif ID 173 (Highest to Lowest)

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.043227

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
----------TTGTTTCCTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

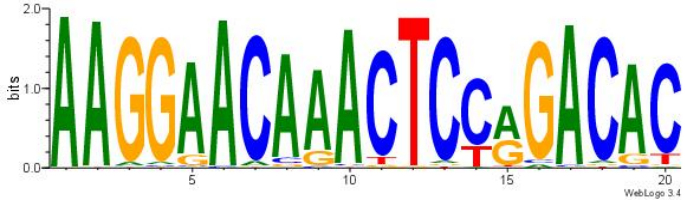

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

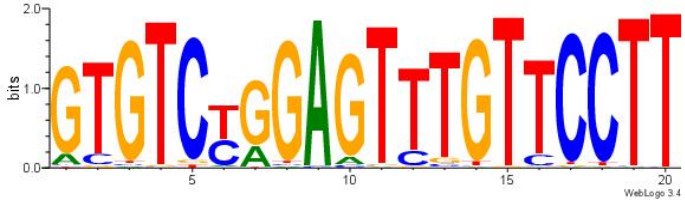

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0491703

Alignment:

```
TTTTTTTMTTT
-TTGTTTCCTT
```

Original motif Consensus sequence: AAAYAAAAAAA

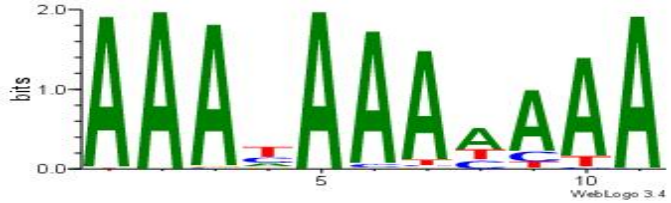

Reverse complement motif Consensus sequence: TTTTTTTMTTT

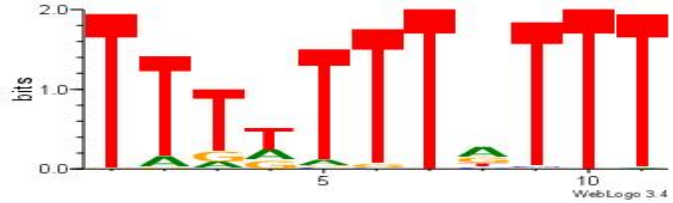

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0529937

Alignment:
TTTCTTTTCCTT
--TTGTTTCCTT

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

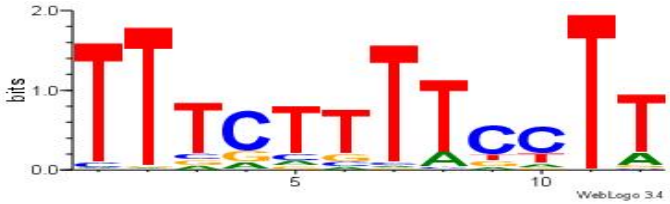

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 10
Similarity score: 0.0605263

Alignment:
GTCTCWAMAAAAAAWAMAAA
---------AAGGAAACAA-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

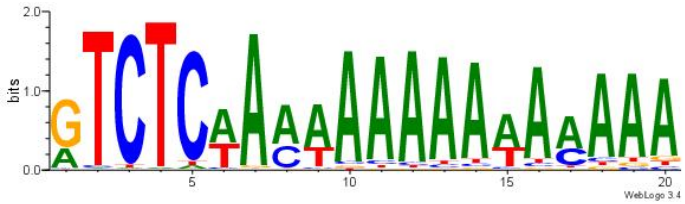

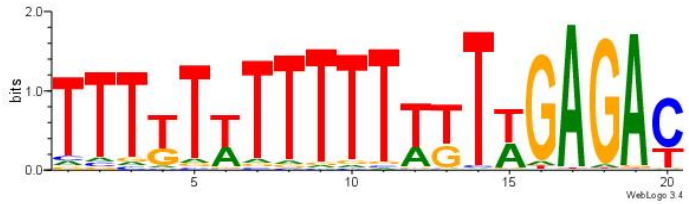

Dataset #:	1
Motif ID:	158
Motif name:	Motif 158
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0611844

Alignment:

```
TAGTTTGCTGA
-TTGTTTCCTT
```

Original motif Consensus sequence: TAGTTTGCTGA

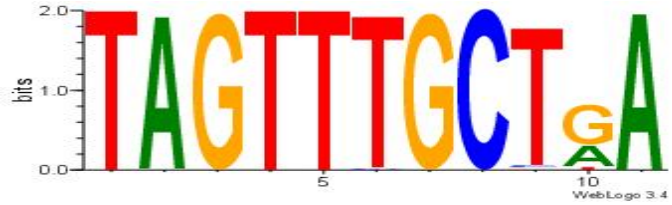

Reverse complement motif Consensus sequence: TCAGCAAACTA

Dataset #:	1
Motif ID:	79

Motif name:	Motif 79
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0626428

Alignment:

```
ATTCATTCATT
-TTGTTTCCTT
```

Original motif Consensus sequence: AATGAATGAAT

Reverse complement motif Consensus sequence: ATTCATTCATT

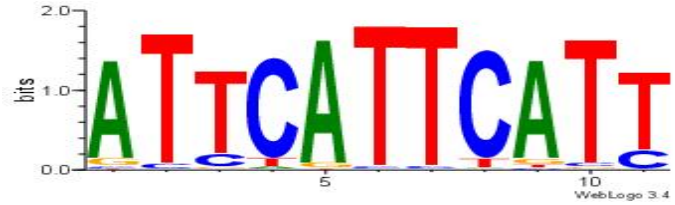

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0629372

Alignment:
TGATACCCAGGCAAACAG
--------AAGGAAACAA

Original motif Consensus sequence: TGATACCCAGGCAAACAG

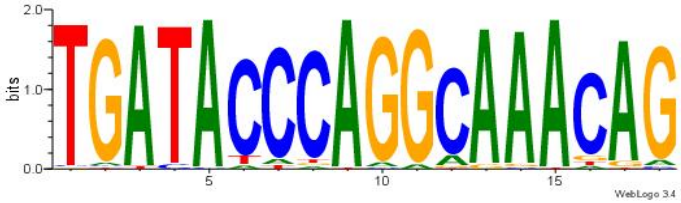

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

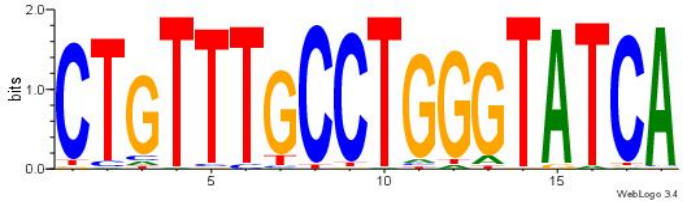

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0644187

Alignment:
GCAAAKGACATGATYTCATT
---AAGGAAACAA-------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

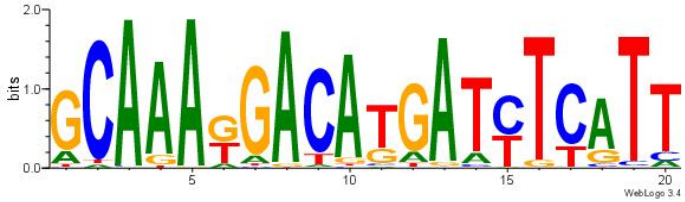

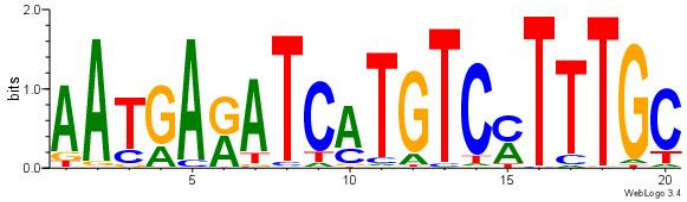

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.06505

Alignment:

```
CAGGTGGTKTTTGGTTACAT
----------TTGTTTCCTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

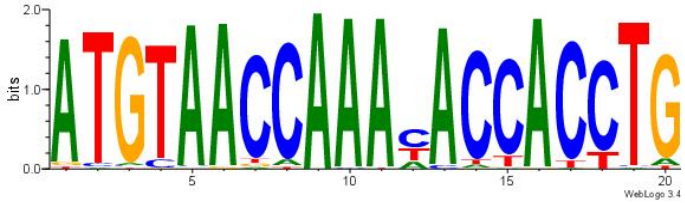

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

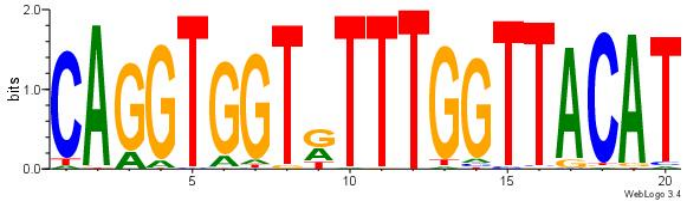

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0707168

Alignment:

```
TWTACCTATGTAACAAACCT
----AAGGAAACAA------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

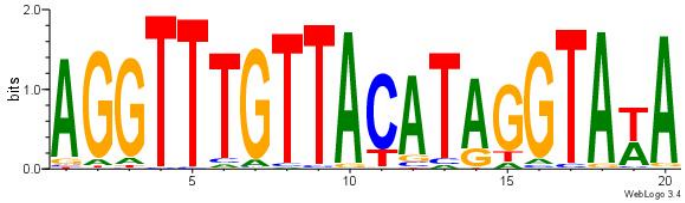

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

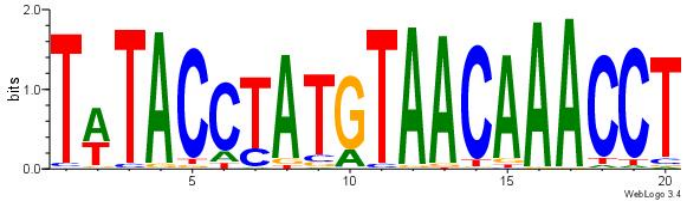

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0726695

Alignment:
TTATTTCACTT
-TTGTTTCCTT

Original motif Consensus sequence: AAGTGAAATAA

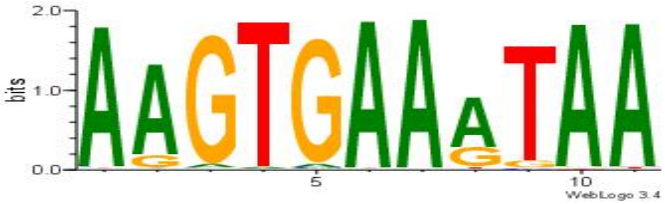

Reverse complement motif Consensus sequence: TTATTTCACTT

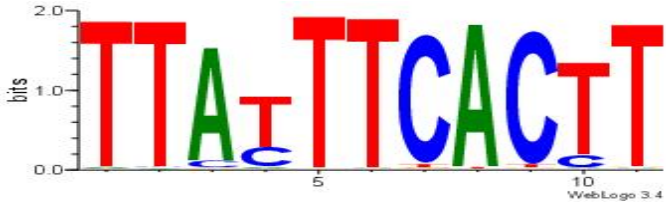

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0730436

Alignment:
GACATGGAGTCAAAGG
---AAGGAAACAA---

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

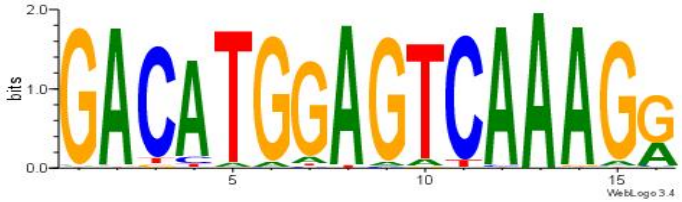

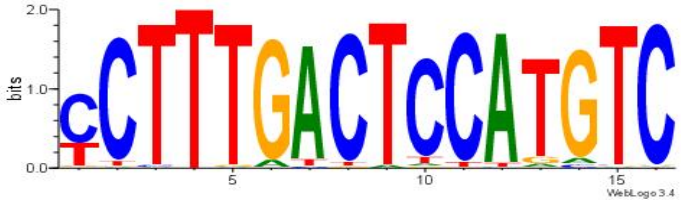

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0749116

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
--------TTGTTTCCTT--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

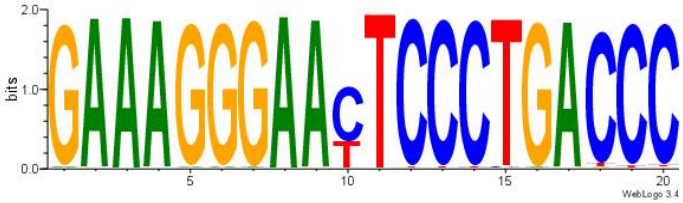

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

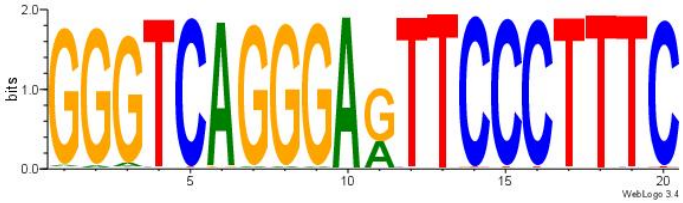

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0759043

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----TTGTTTCCTT-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

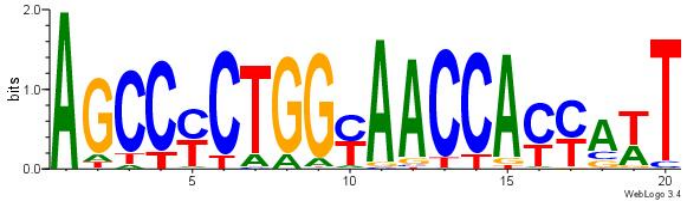

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

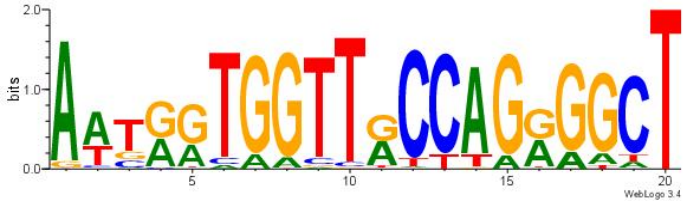

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0760708

Alignment:
AATTAAAAGACACAGACTG
-----AAGGAAACAA----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

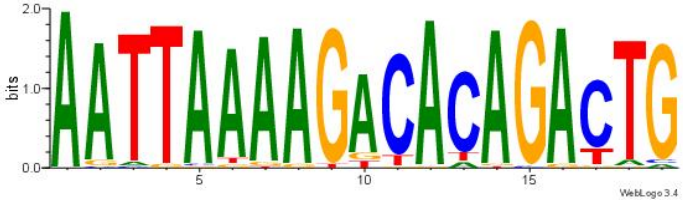

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

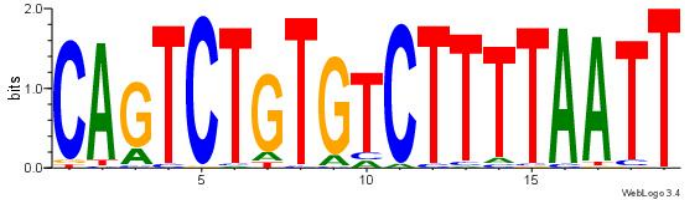

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0765151

Alignment:
AGCAGYTTGGAAACACT
------AAGGAAACAA-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

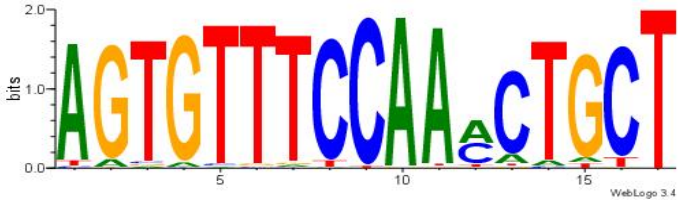

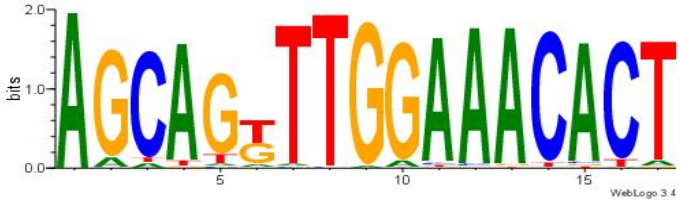

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.078099

Alignment:

```
TAATGGGTACAAA
--AAGGAAACAA-
```

Original motif Consensus sequence: TAATGGGTACAAA

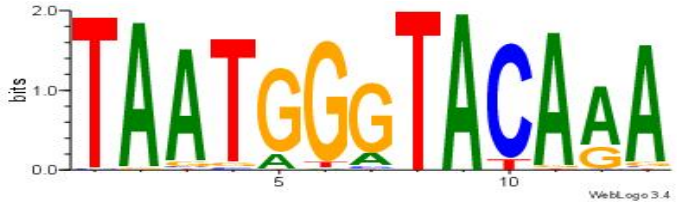

Reverse complement motif Consensus sequence: TTTGTACCCATTA

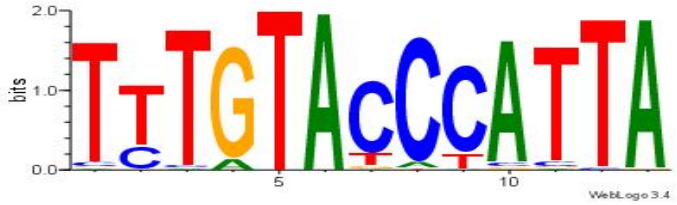

Dataset #:	1
Motif ID:	135

Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0788306

Alignment:

```
CTCTTGTTGCCCAG
-TTGTTTCCTT---
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

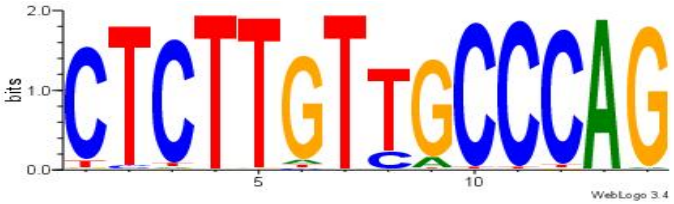

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

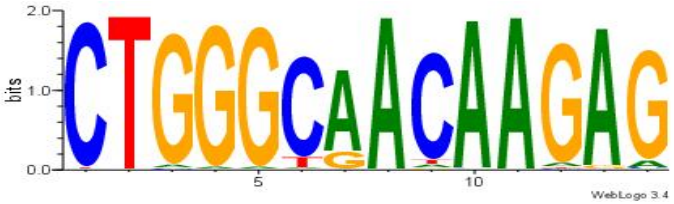

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0792853

Alignment:
GTGTCCCCTTCCTCCC
TTGTTTCCTT------

Original motif Consensus sequence: GGGAGGAAGGGGACAC

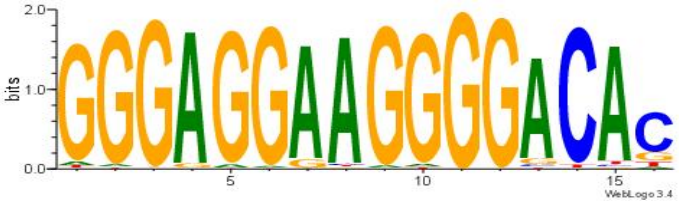

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

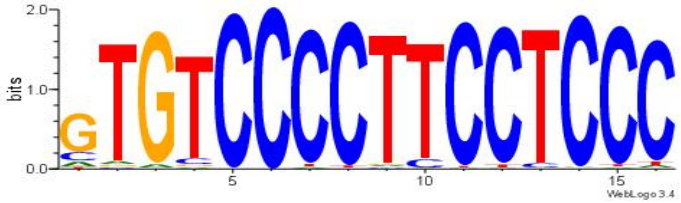

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0796881

Alignment:
TTTCTTTGACTRG
-TTGTTTCCTT--

Original motif Consensus sequence: CKAGTCAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

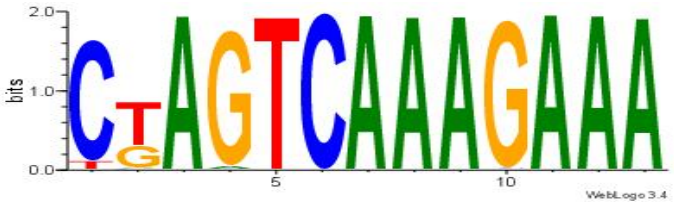

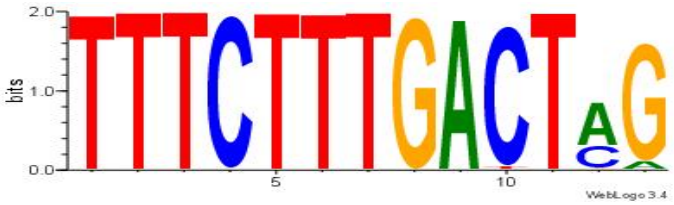

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0800944

Alignment:
GAAHCAACCKAAKTGTCCAT
---------AAGGAAACAA-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

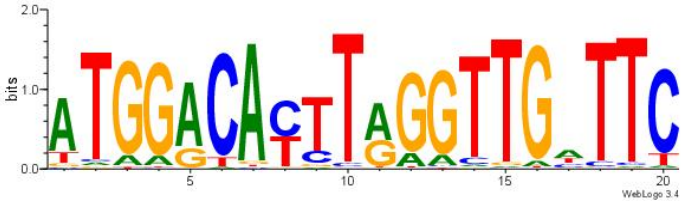

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

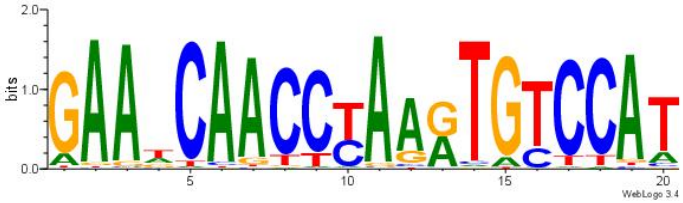

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0808893

Alignment:

```
AACAACAACAACAAMAA
-AAGGAAACAA------
```

Original motif Consensus sequence: AACAACAACAACAAMAA

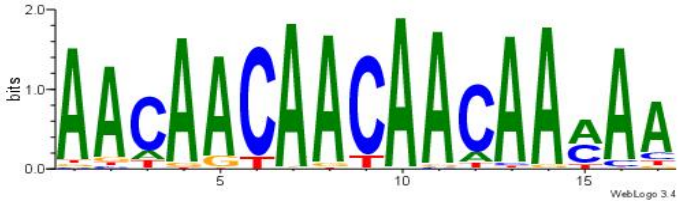

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

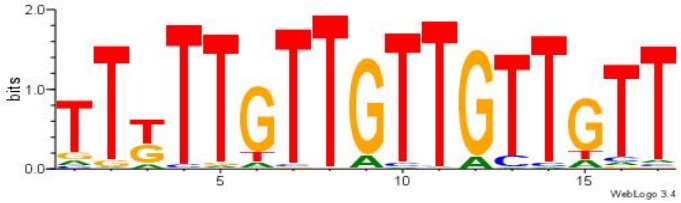

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0811212

Alignment:
ATGATTCCATTT
TTGTTTCCTT--

Original motif Consensus sequence: AAATGGAATCAT

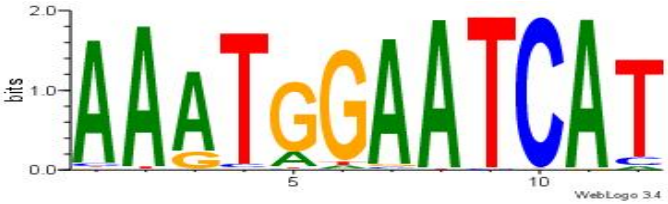

Reverse complement motif Consensus sequence: ATGATTCCATTT

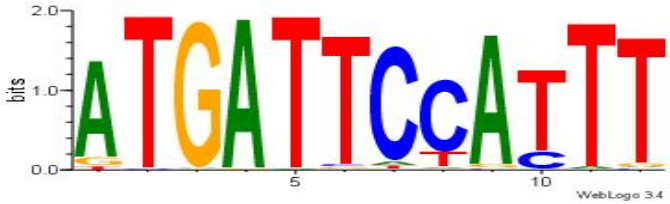

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 10
Similarity score: 0.0812838

Alignment:
TAAAAGACTACAWATTGGGT
---AAGGAAACAA-------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

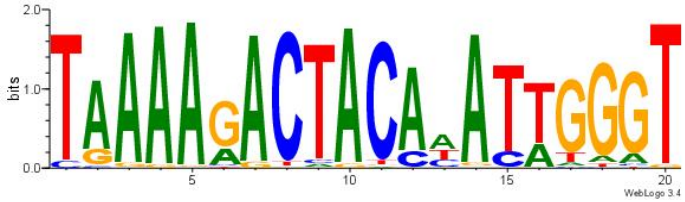

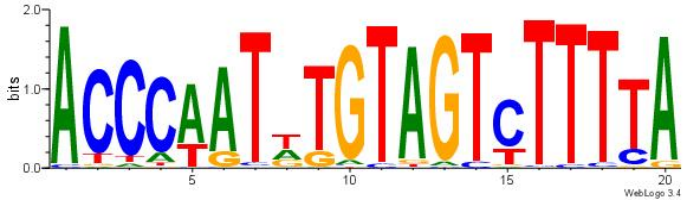

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0815031

Alignment:

```
GGTTTTCCATTCCTGAG
TTGTTTCCTT-------
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

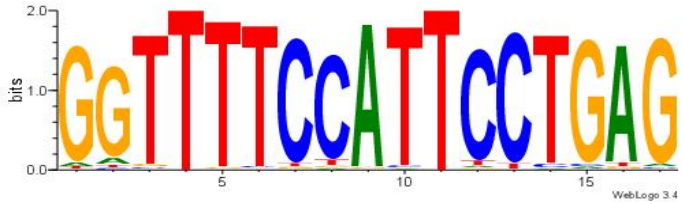

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0816438

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-------TTGTTTCCTT---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

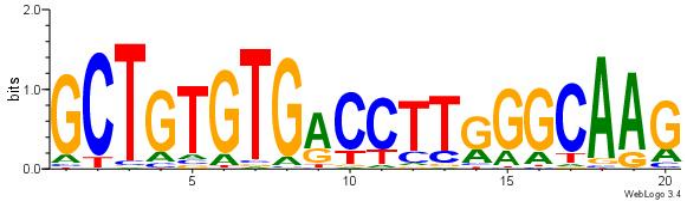

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

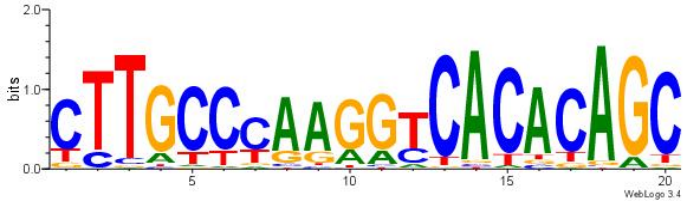

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0816763

Alignment:
KCCGGGCCTTAGCTGCCTTC
---------TTGTTTCCTT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

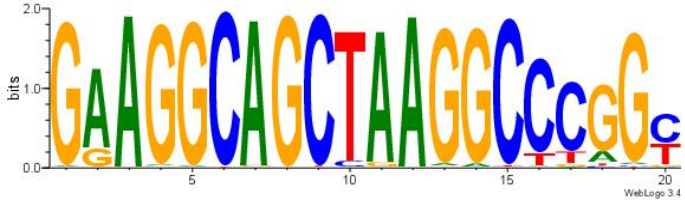

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

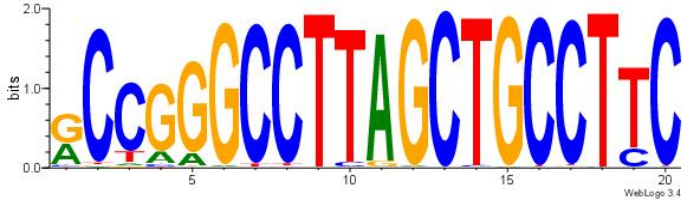

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0824829

Alignment:
TGTATTAGTCMMTT
----TTGTTTCCTT

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

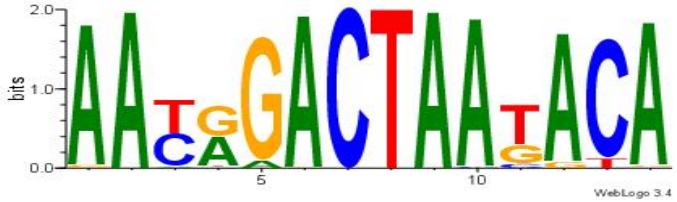

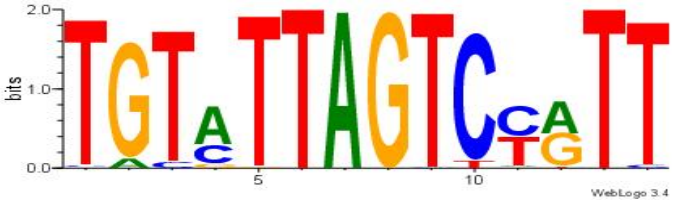

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0833235

Alignment:

```
TCCAAATGGGAGAAATTGGC
----AAGGAAACAA------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

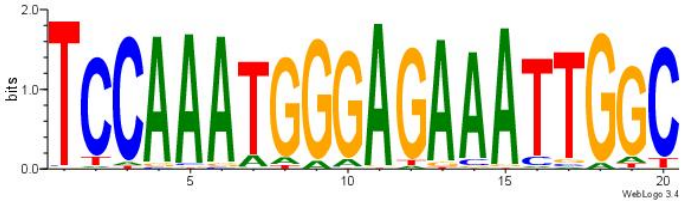

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

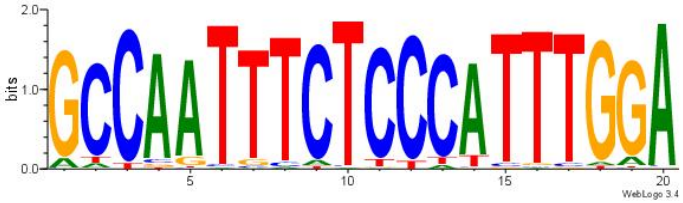

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0837747

Alignment:

```
TAATTTTATGTGTCAACTTG
---------TTGTTTCCTT-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

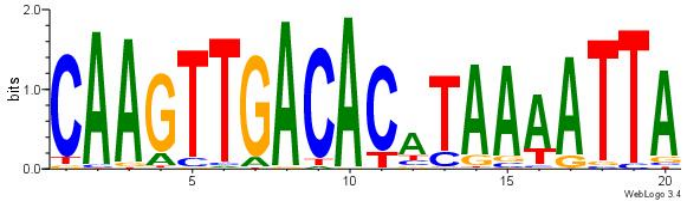

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

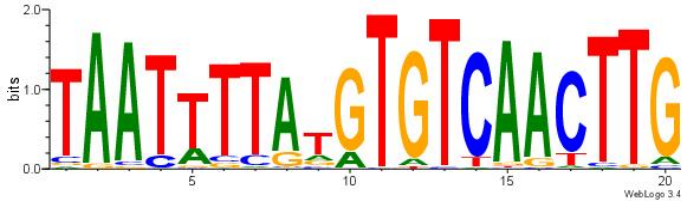

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0842639

Alignment:
GATACAAAATCAATGTR
---AAGGAAACAA----

Original motif Consensus sequence: GATACAAAATCAATGTR

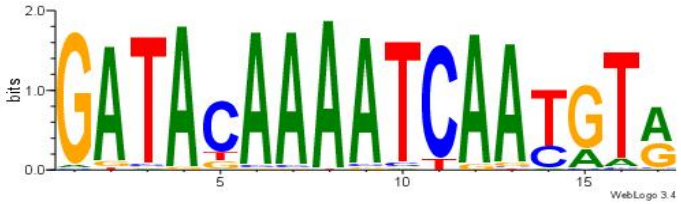

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

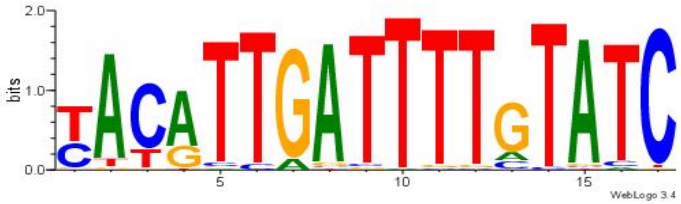

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 10
Similarity score: 0.0847924

Alignment:
CAGCTACTCKTATACCCTTG
---------TTGTTTCCTT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

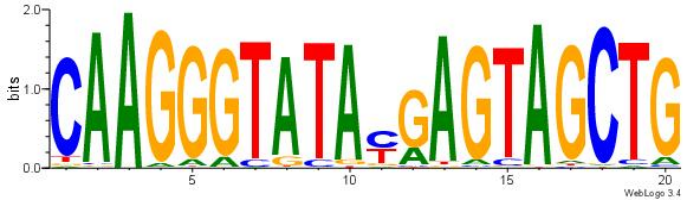

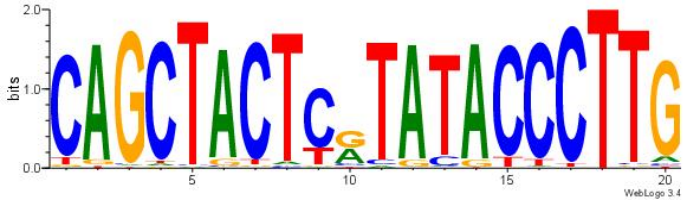

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0850822

Alignment:

```
AACAACASACACTGGGGCCT
AAGGAAACAA----------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

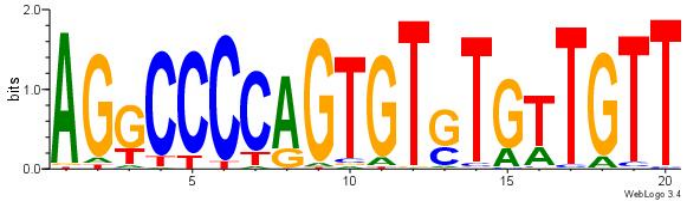

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

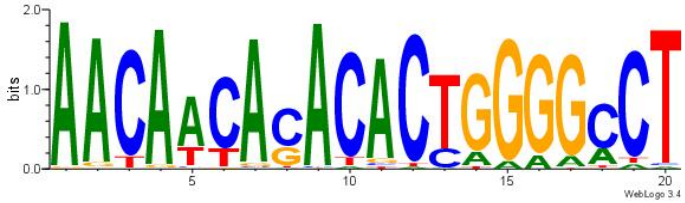

Dataset #:	1

Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0858171

Alignment:

```
CATAGGAGATGAC
--AAGGAAACAA-
```

Original motif Consensus sequence: CATAGGAGATGAC

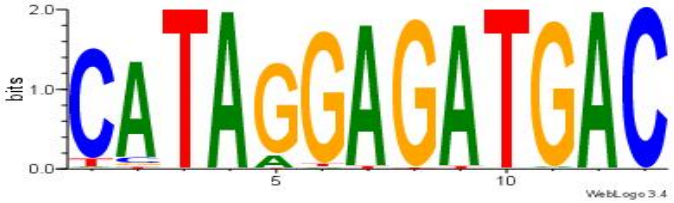

Reverse complement motif Consensus sequence: GTCATCTCCTATG

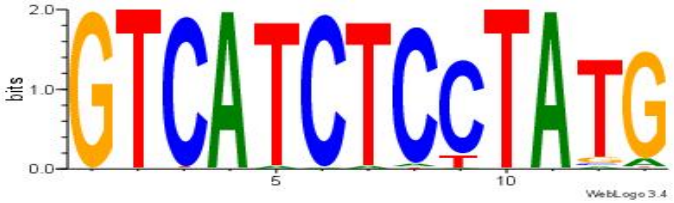

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0859283

Alignment:
MGAAGGGACTTGCCTTGT
------TTGTTTCCTT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

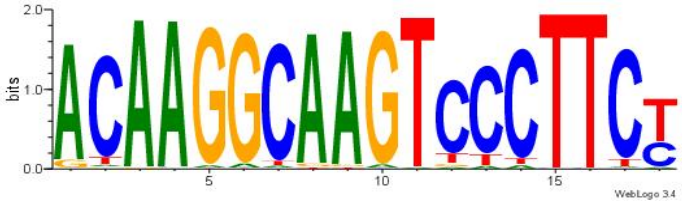

Reverse complement motif Consensus sequence:
MGAAGGGACTTGCCTTGT

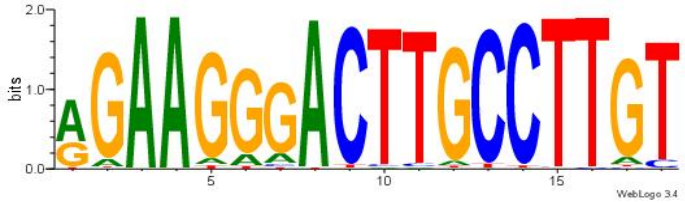

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0864861

Alignment:
TGAGKCAATTAAACCTCTT
---AAGGAAACAA------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

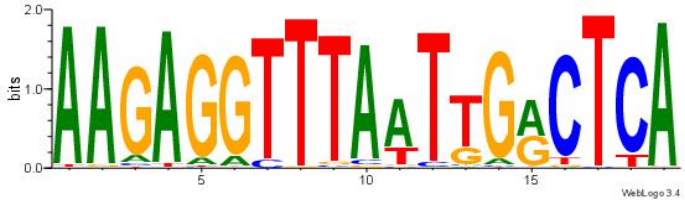

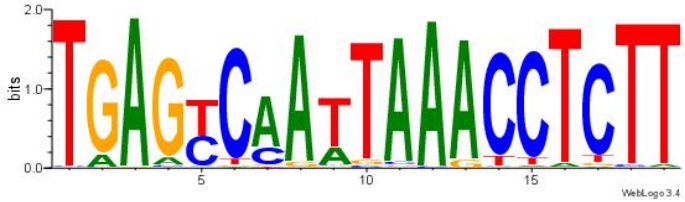

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0875814

Alignment:

```
TCGTTCACTCAGTGC
TTGTTTCCTT-----
```

Original motif Consensus sequence: GCACTGAGTGAACGA

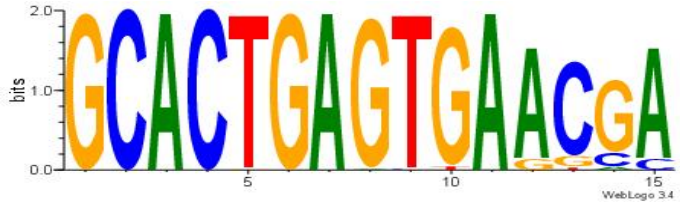

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

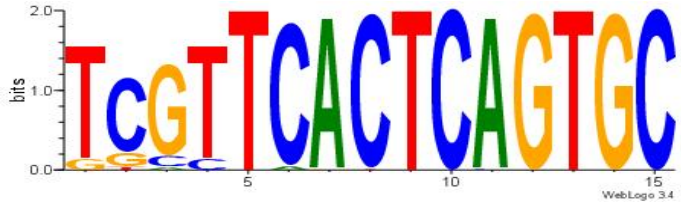

Dataset #:	1
Motif ID:	189

Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0876201

Alignment:

```
CAATGATAGACTGGAT
-AAGGAAACAA-----
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

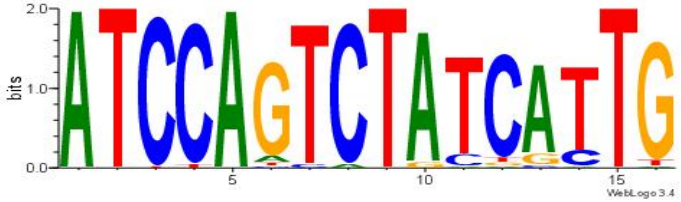

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.087628

Alignment:
AATGAGTTAAGACTTTG
AAGGAAACAA-------

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

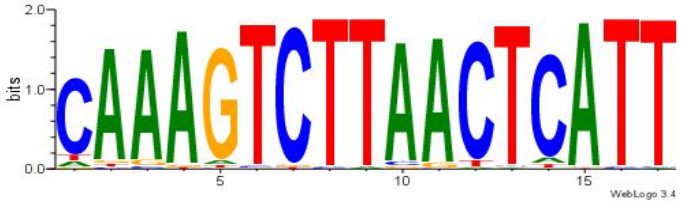

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0876409

Alignment:
AGGAGGAAGTCAATTTC
--AAGGAAACAA-----

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

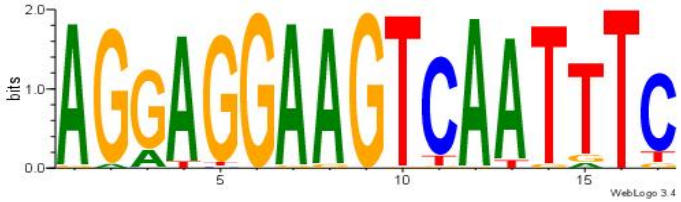

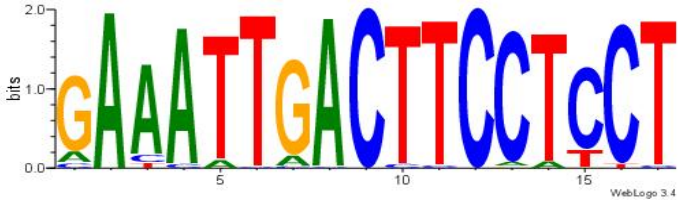

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0876536

Alignment:

```
TGGGTTCYTGGTC
TTGTTTCCTT---
```

Original motif Consensus sequence: GACCAMGAACCCA

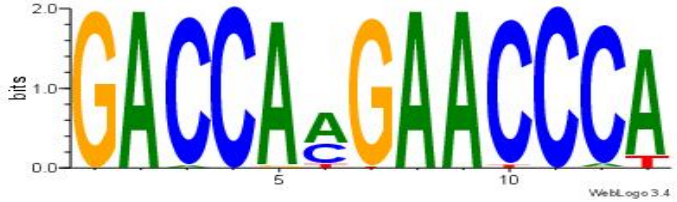

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

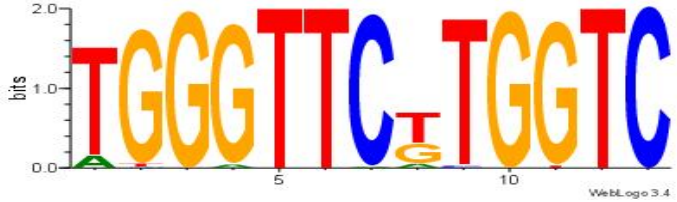

Dataset #:	1
Motif ID:	19

Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0876929

Alignment:

```
CACCAGGAGATTATATCCCR
TTGTTTCCTT----------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

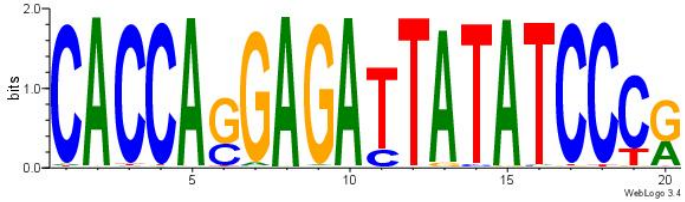

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

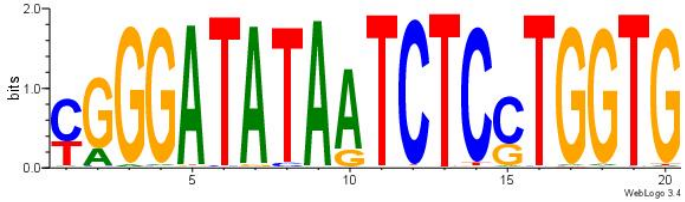

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0877949

Alignment:
ATTGGTGTATTTACAATCCC
---------TTGTTTCCTT-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

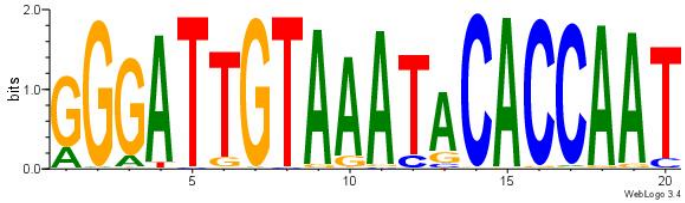

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0880251

Alignment:
GACTTCAAGAATGAAGCCG
-----AAGGAAACAA----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

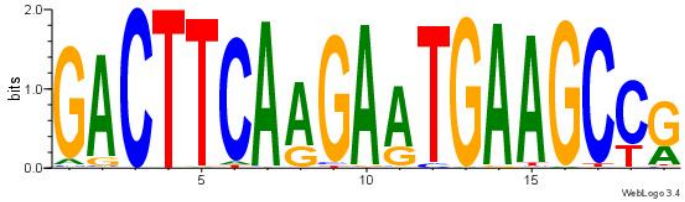

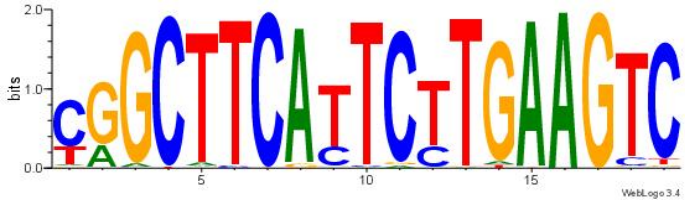

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0884547

Alignment:
AGTGAGAACATRYRRTRTTT
TTGTTTCCTT----------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

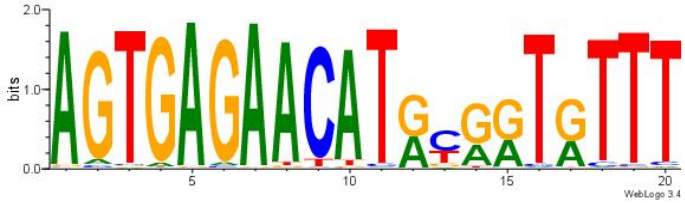

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

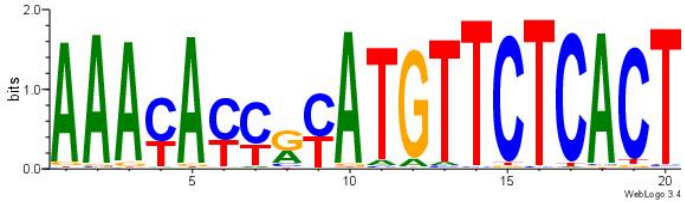

Dataset #: 1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0888063

Alignment:

```
GAGAACACATGGACA
AAGGAAACAA-----
```

Original motif Consensus sequence: GAGAACACATGGACA

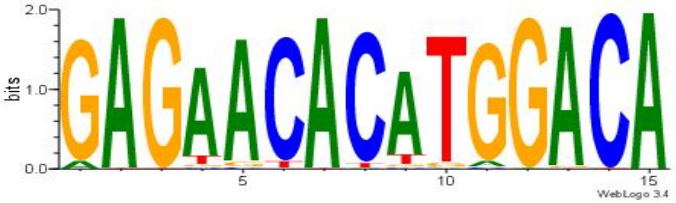

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

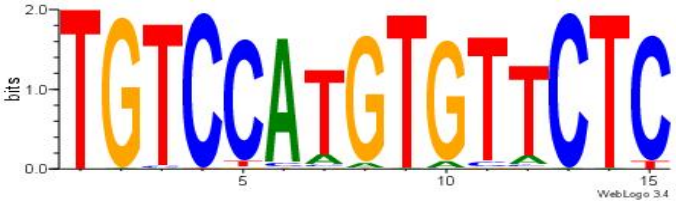

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0888453

Alignment:
GTTGTGAGGATTAAATGAG
----AAGGAAACAA-----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

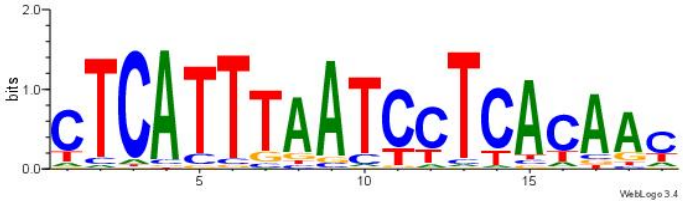

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

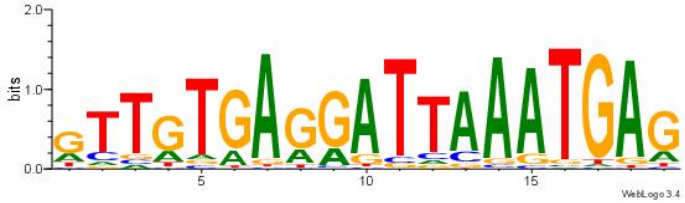

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0889879

Alignment:
GACAGGAGATTAACACTGAG
--AAGGAAACAA--------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

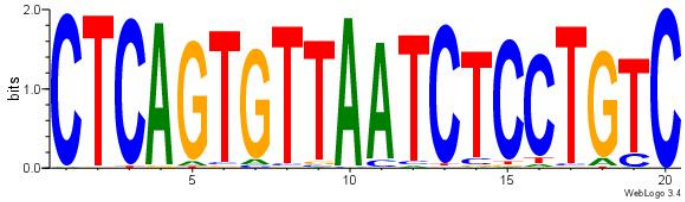

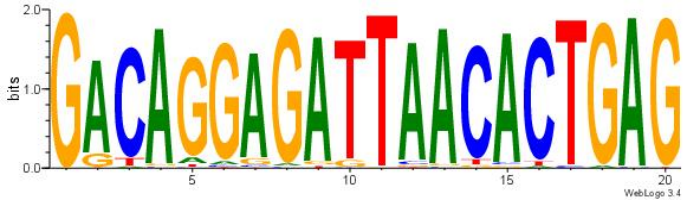

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0890424

Alignment:

```
TCAGGAGTGAAGCTGC
-AAGGAAACAA-----
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

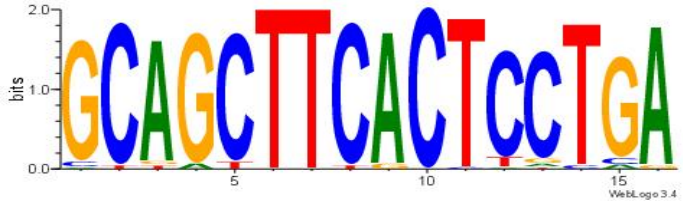

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

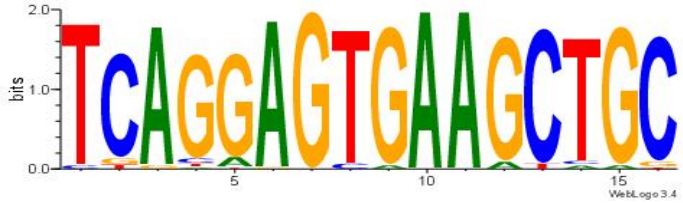

Dataset #: 1

Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0891775

Alignment:

```
CAGAAATCACC
AAGGAAACAA-
```

Original motif Consensus sequence: CAGAAATCACC

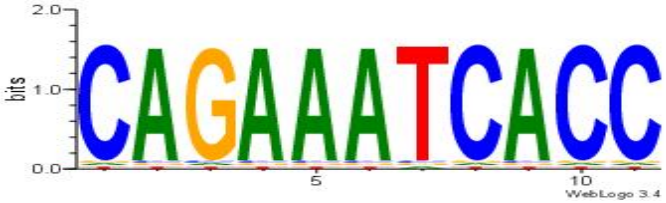

Reverse complement motif Consensus sequence: GGTGATTTCTG

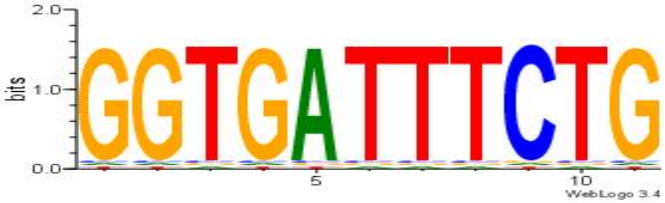

Dataset #: 1 Motif ID: 41 Motif name: Motif 41

Original motif Consensus sequence: AAAYAAAAAAA

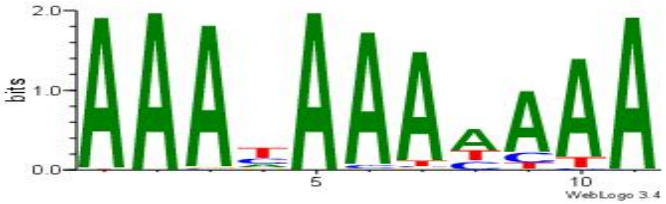

Reverse complement motif Consensus sequence: TTTTTTTMTTT

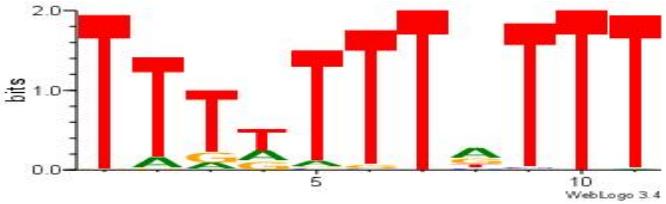

Best Matches for Significant Motif ID 41 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0197219

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
---------AAAYAAAAAAA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

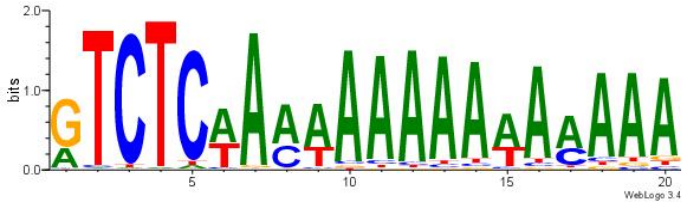

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

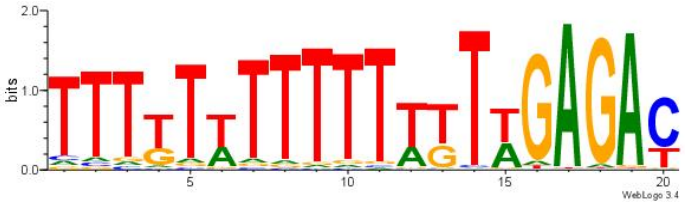

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0476983

Alignment:

```
TTTCTTTTCCTT
-TTTTTTTMTTT
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

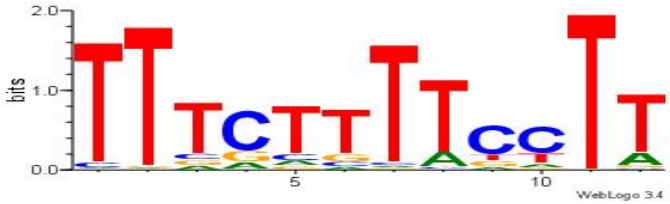

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.055347

Alignment:

```
AACAACAACAACAAMAA
-----AAAYAAAAAAA-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

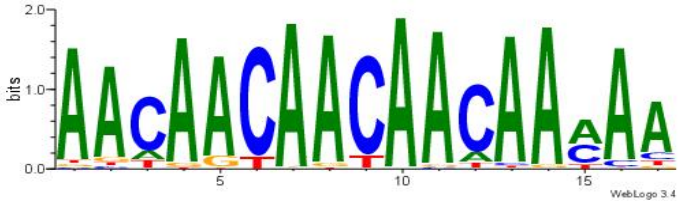

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

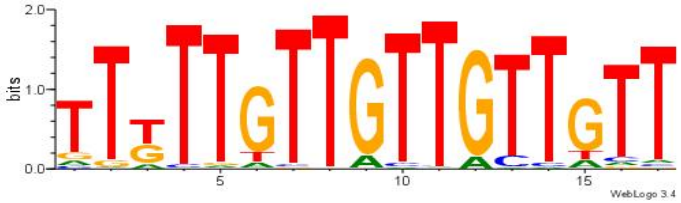

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0567271

Alignment:

```
GGGATTGTAAATACACCAAT
--------AAAYAAAAAAA-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

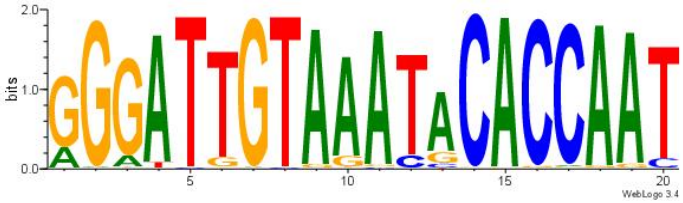

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0636192

Alignment:

```
GATACAAAATCAATGTR
-AAAYAAAAAAA-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

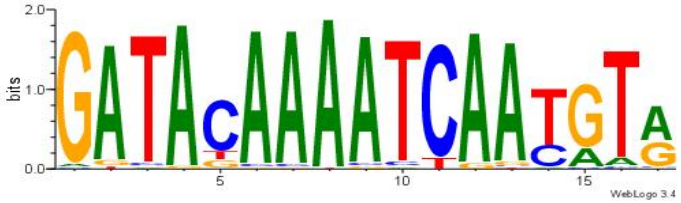

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

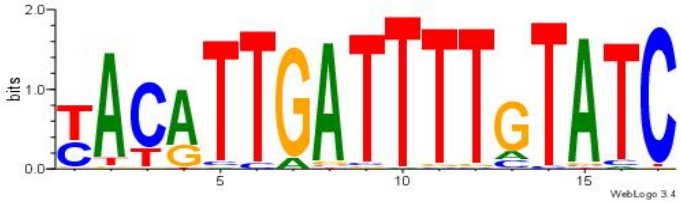

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0641764

Alignment:
CAGTCTGTGTCTTTTAATT
--------TTTTTTTMTTT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

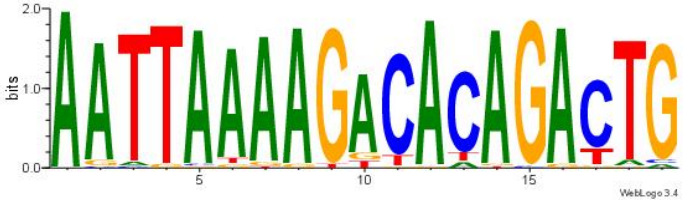

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

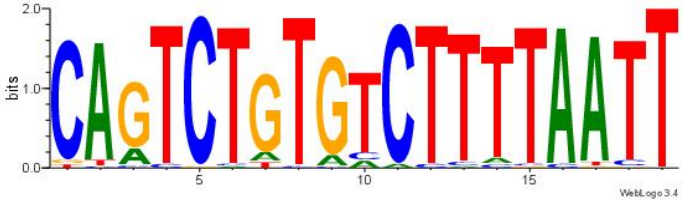

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0649387

Alignment:
AAAMAMMKMATGTTCTCACT
AAAYAAAAAAA---------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

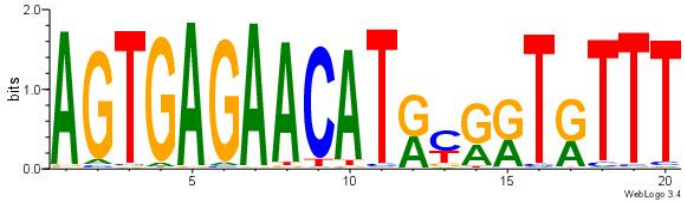

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

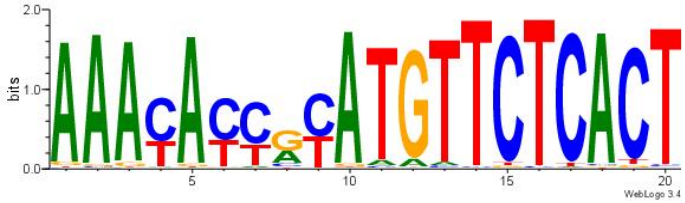

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0680828

Alignment:

```
AAGTGAAATAA
AAAYAAAAAAA
```

Original motif Consensus sequence: AAGTGAAATAA

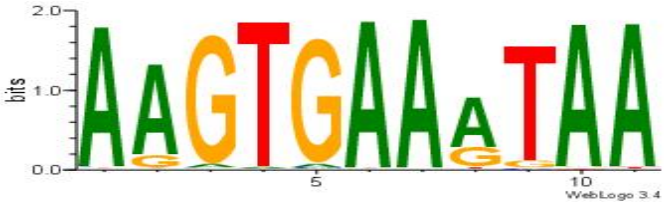

Reverse complement motif Consensus sequence: TTATTTCACTT

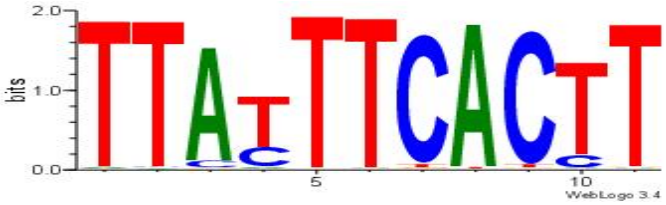

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0685198

Alignment:

```
CKAGTCAAAGAAA
--AAAYAAAAAAA
```

Original motif Consensus sequence: CKAGTCAAAGAAA

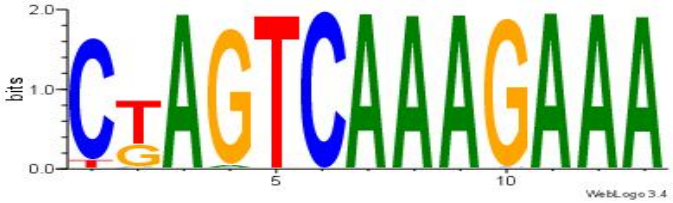

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

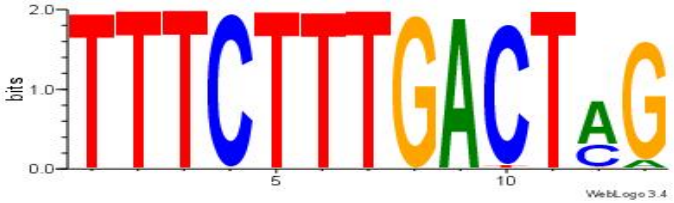

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11

Similarity score: 0.0695003

Alignment:
TGTGTGTGTGTKTGTGTGT
--------TTTTTTTMTTT

Original motif Consensus sequence: ACACACAYACACACACACA

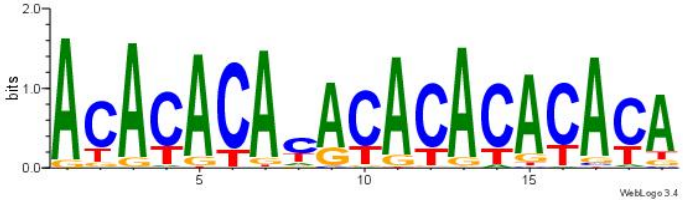

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

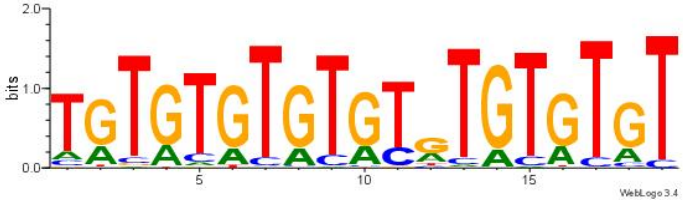

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0696509

Alignment:
ATGTAACCAAAYACCACCTG
----AAAYAAAAAAA-----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

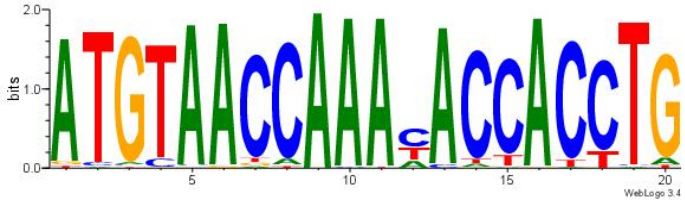

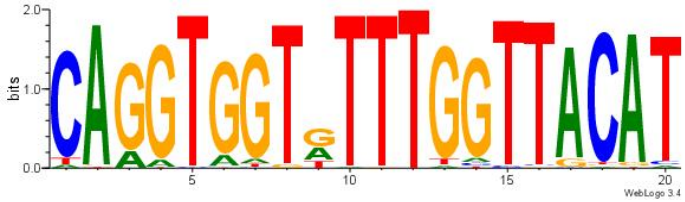

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0703254

Alignment:

```
GCCAGTCACAAAARGACAMA
---------AAAYAAAAAAA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

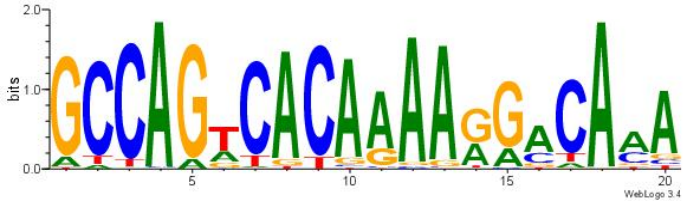

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

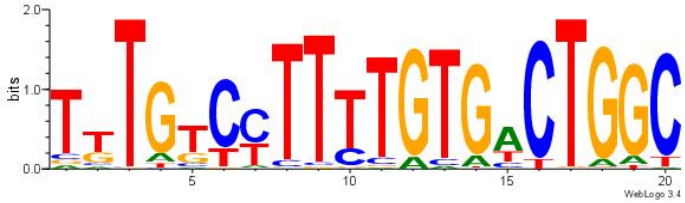

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0716018

Alignment:

```
TAATTTTATGTGTCAACTTG
TTTTTTTMTTT---------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

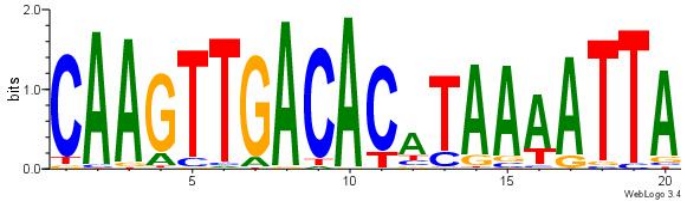

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

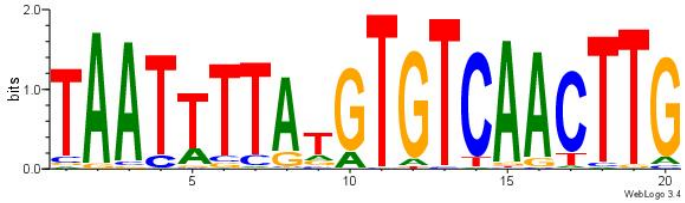

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0717997

Alignment:
GAAHCAACCKAAKTGTCCAT
-AAAYAAAAAAA--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

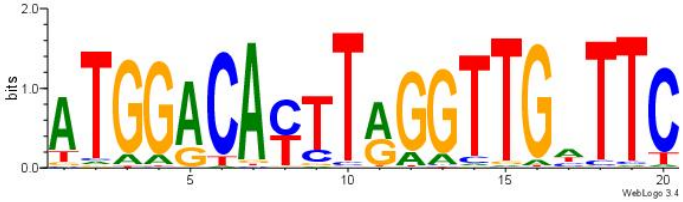

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

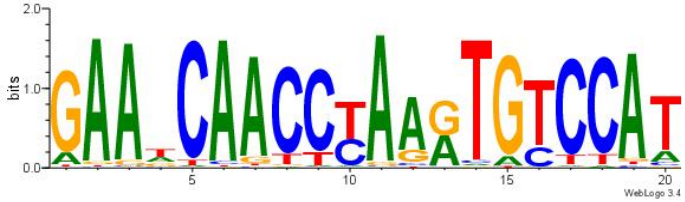

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.0740961

Alignment:
GTGTCKGGAGTTTGTTCCTT
---------TTTTTTTMTTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

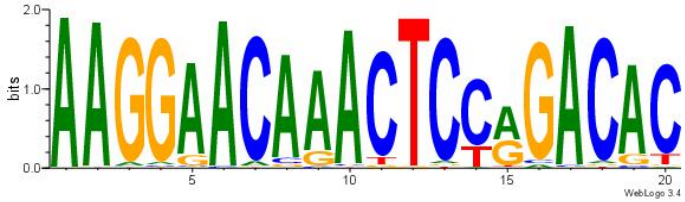

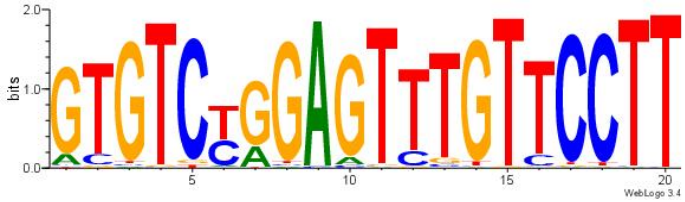

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0752322

Alignment:

```
CTTCGCTGACTCTCTTT
------TTTTTTTMTTT
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

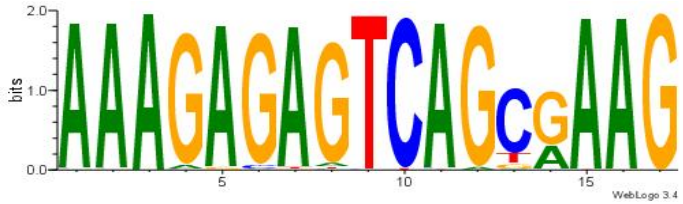

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

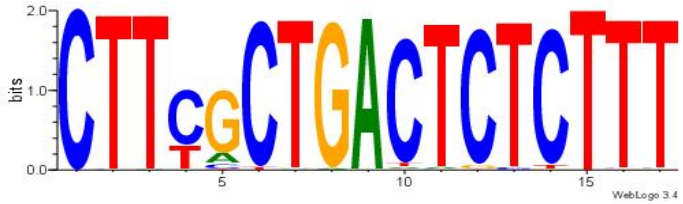

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0758895

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-------TTTTTTTMTTT--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

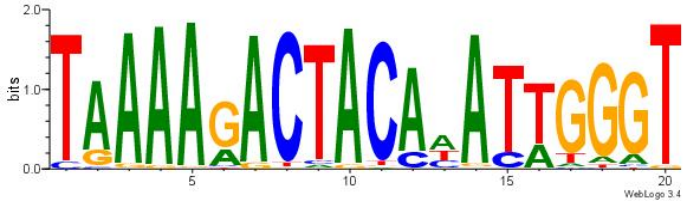

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

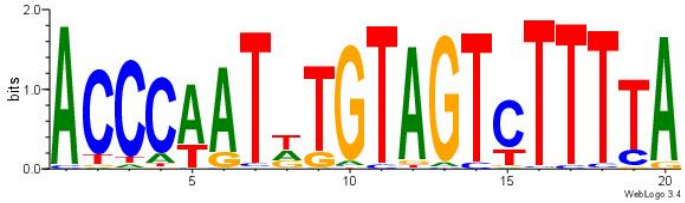

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0764079

Alignment:
GTTATTAATTGGCCTAATTT
TTTTTTTMTTT---------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

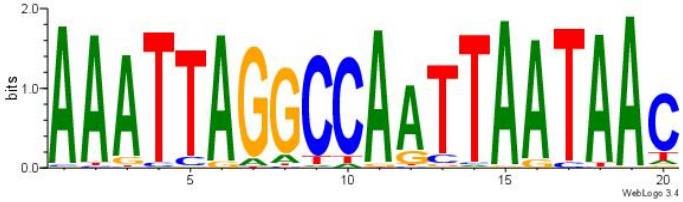

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0780833

Alignment:
GCAAAKGACATGATYTCATT
--AAAYAAAAAAA-------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

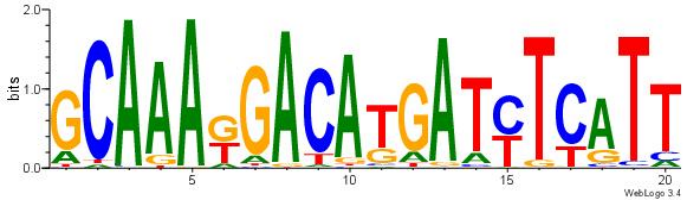

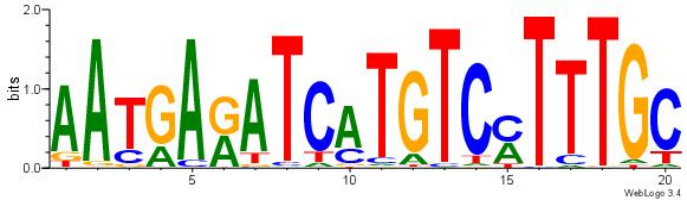

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0795444

Alignment:

```
TTTAACTCTGTGAG
TTTTTTTMTTT---
```

Original motif Consensus sequence: CTCACAGAGTTAAA

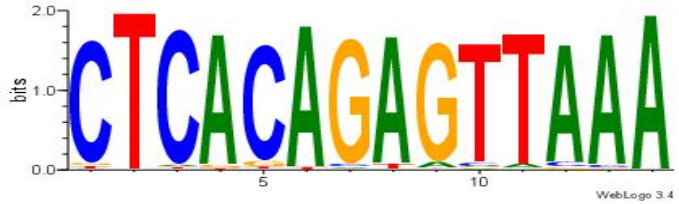

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

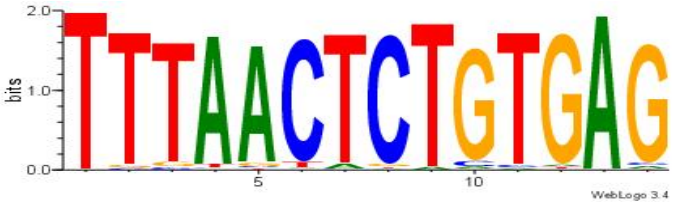

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0795681

Alignment:

```
GCCAATTTCTCCCATTTGGA
-----TTTTTTTMTTT----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

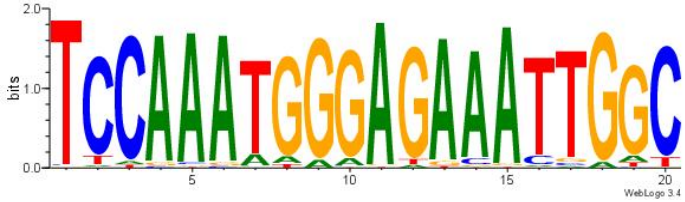

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

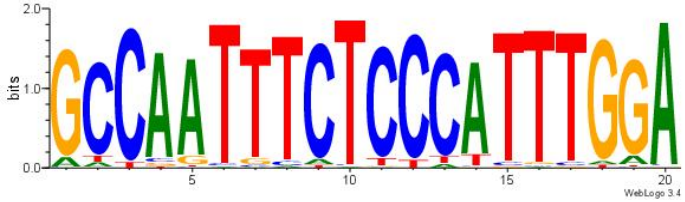

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0796078

Alignment:
TGGAGAACCTTTATGTCTAG
---------TTTTTTTMTTT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

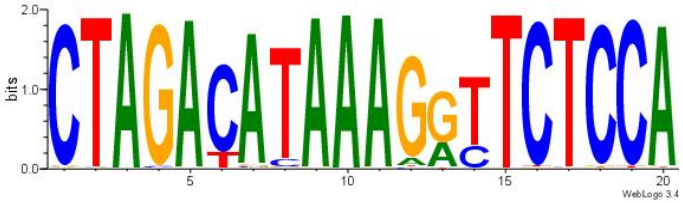

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

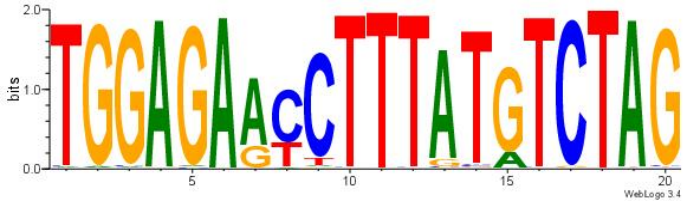

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0802417

Alignment:
TCTCTCTCTCTCTCTCTCTC
TTTTTTTMTTT---------

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

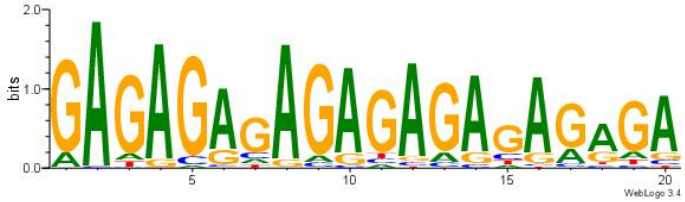

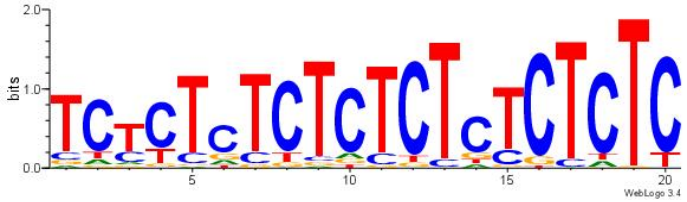

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0805872

Alignment:

```
TGAGKCAATTAAACCTCTT
--AAAYAAAAAAA------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

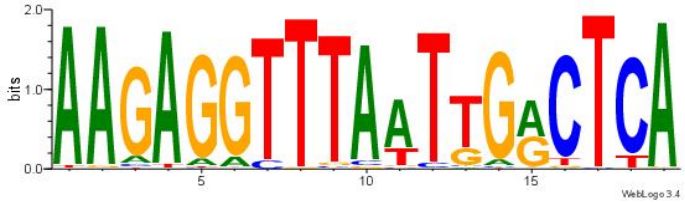

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

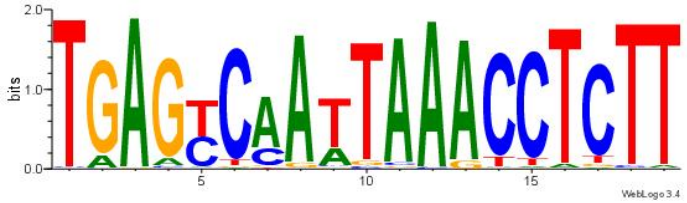

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0818572

Alignment:

```
ATCATTCTTATGCCTTTG
------TTTTTTTMTTT-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

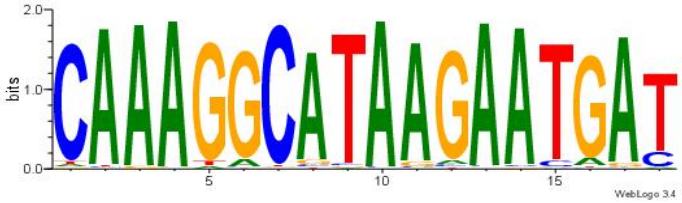

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

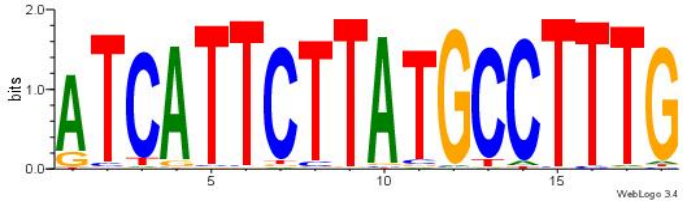

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0827652

Alignment:
TTTTATAGGATTTGGG
--TTTTTTTMTTT---

Original motif Consensus sequence: CCCAAATCCTATAAAA

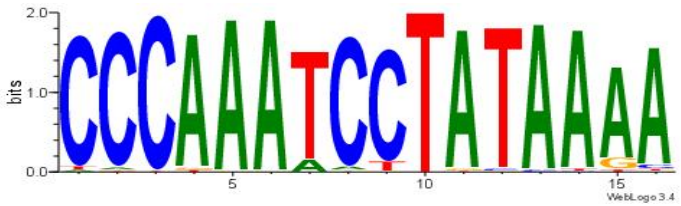

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

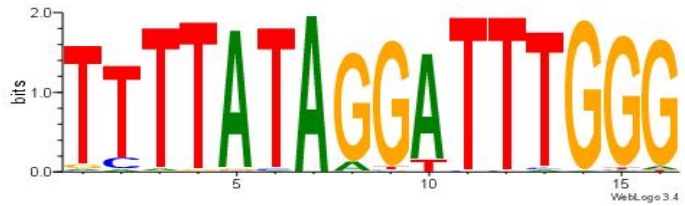

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0830193

Alignment:
ATAAAAACTTGCTGGTTTT
--------TTTTTTTMTTT

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

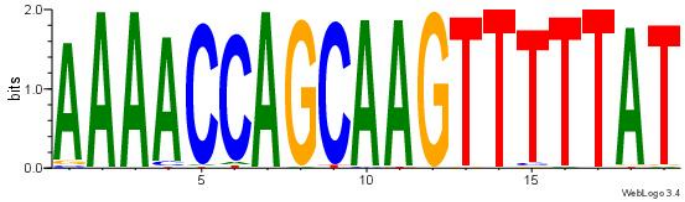

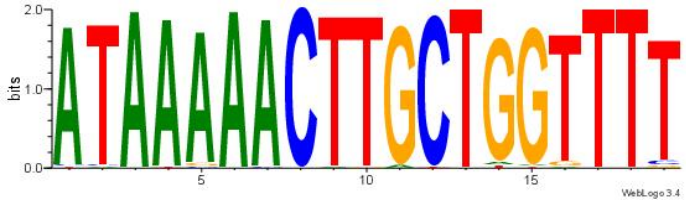

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0830736

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
--TTTTTTTMTTT-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

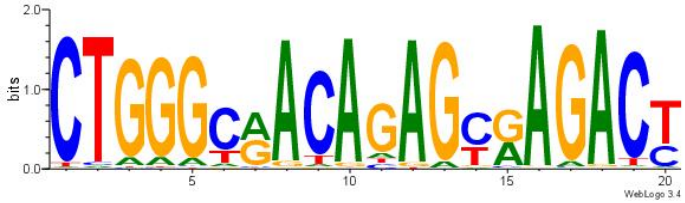

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

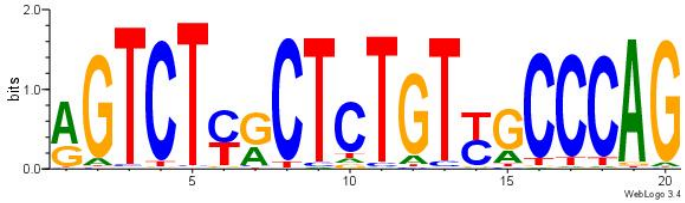

Dataset #:	1

Motif ID:	79
Motif name:	Motif 79
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0832275

Alignment:

```
ATTCATTCATT
TTTTTTTMTTT
```

Original motif Consensus sequence: AATGAATGAAT

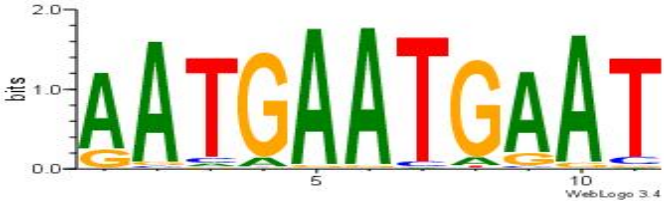

Reverse complement motif Consensus sequence: ATTCATTCATT

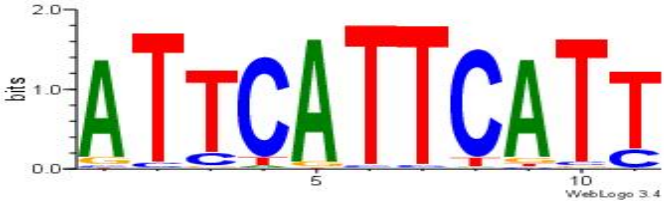

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0833234

Alignment:
AACAACASACACTGGGGCCT
AAAYAAAAAAA---------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

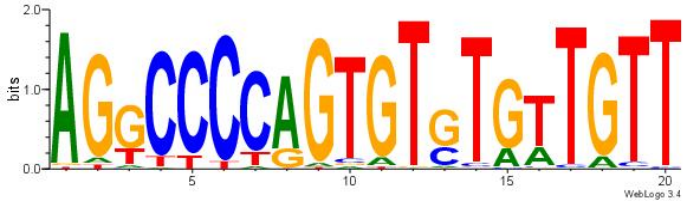

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

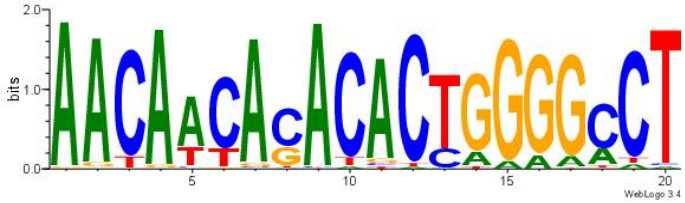

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0834243

Alignment:
TWTACCTATGTAACAAACCT
------AAAYAAAAAAA---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

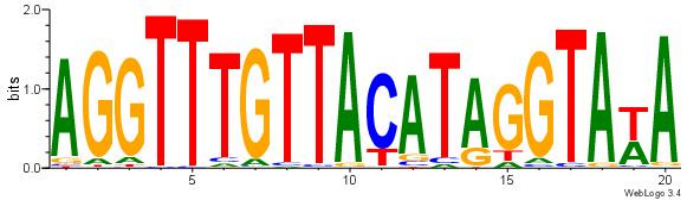

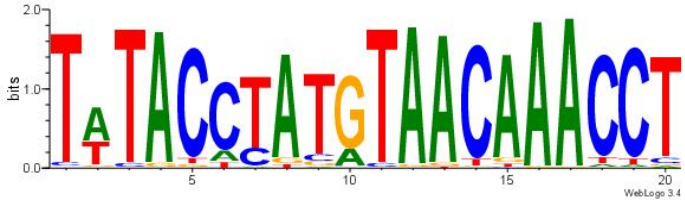

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0852696

Alignment:

```
AAATGGAATCAT
AAAYAAAAAAA-
```

Original motif Consensus sequence: AAATGGAATCAT

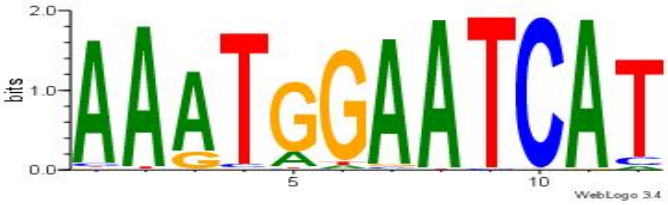

Reverse complement motif Consensus sequence: ATGATTCCATTT

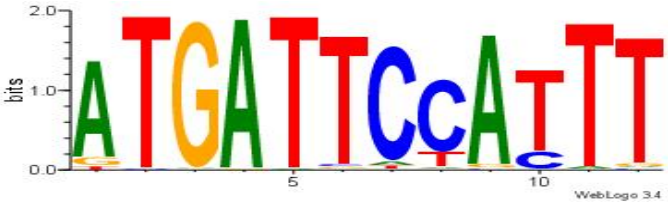

Dataset #:	1
Motif ID:	254

Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0859301

Alignment:

```
ATAGGAATGCTTGTGATTTT
--------TTTTTTTMTTT-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

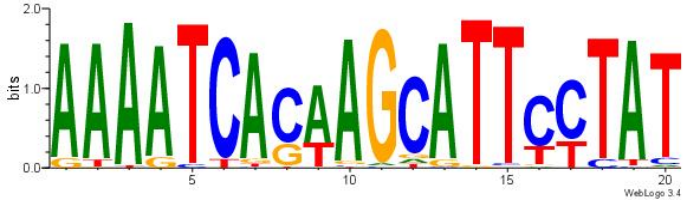

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

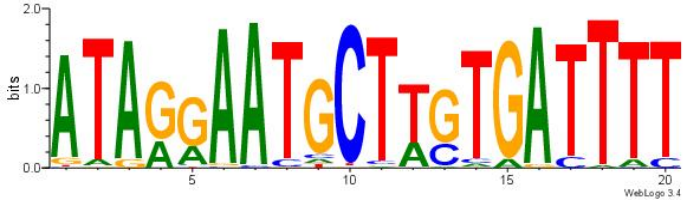

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0870026

Alignment:
GTKTMTATMTACCACATTTT
-TTTTTTTMTTT--------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

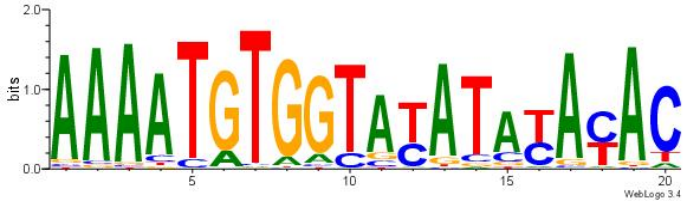

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

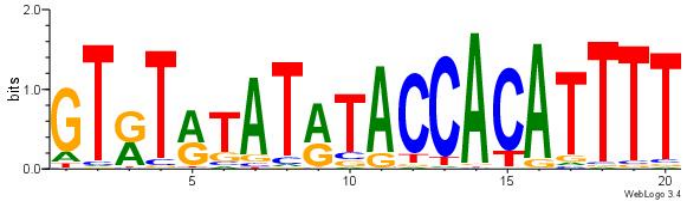

Dataset #:	1
Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0870612

Alignment:
CCAAACCATATCA
--AAAYAAAAAAA

Original motif Consensus sequence: CCAAACCATATCA

Reverse complement motif Consensus sequence: TGATATGGTTTGG

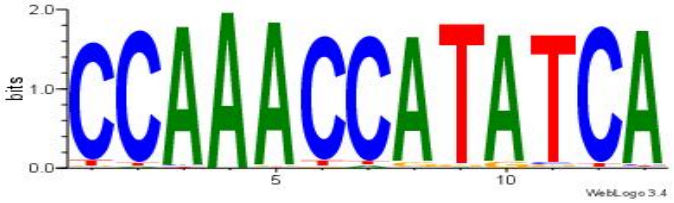

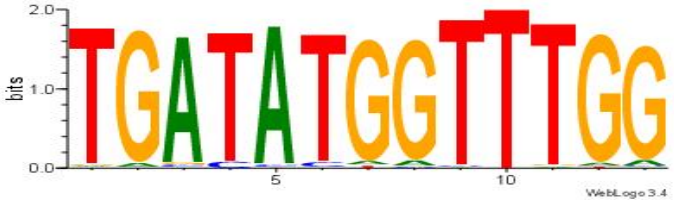

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0877718

Alignment:

```
GAAACTGCTTTGTGATGTGT
-------TTTTTTTMTTT--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

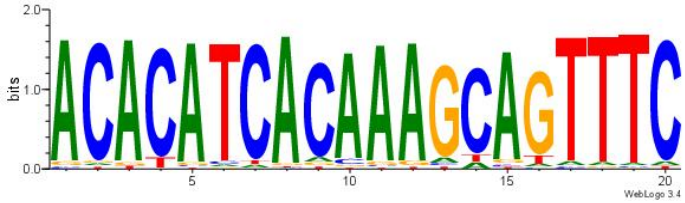

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

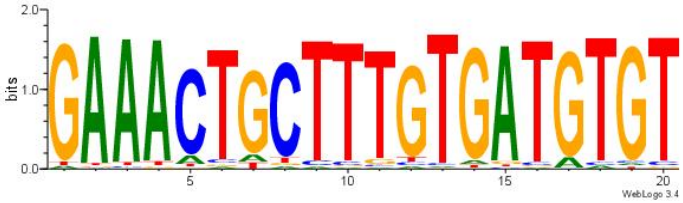

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0880281

Alignment:

```
CTCATTTAATCCTCACAAC
TTTTTTTMTTT--------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

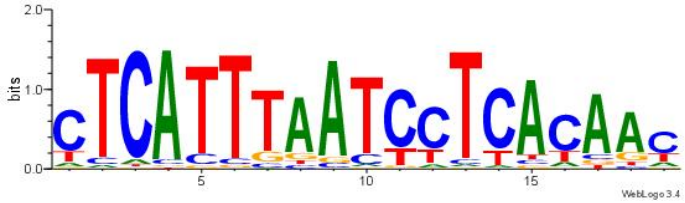

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

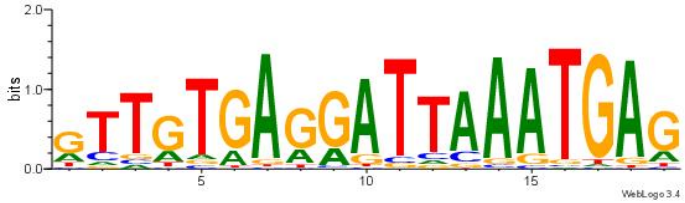

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.0883562

Alignment:
GGATTTMKGACTTGCATGGG
---TTTTTTTMTTT------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

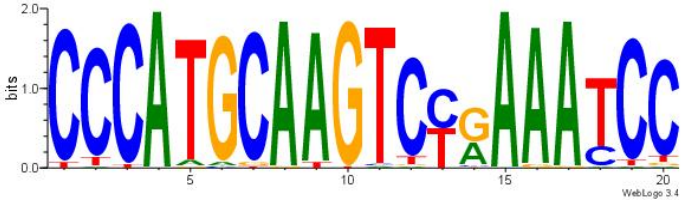

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

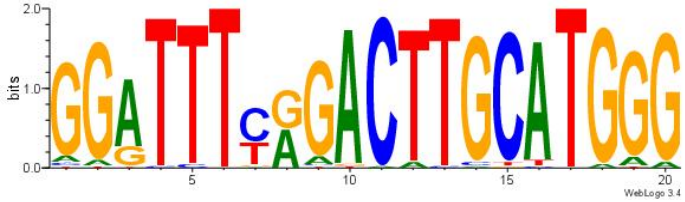

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0884677

Alignment:
AGAGCCAAATCATGARTGAA
------AAAYAAAAAAA---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

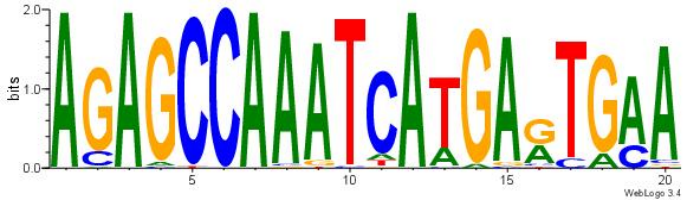

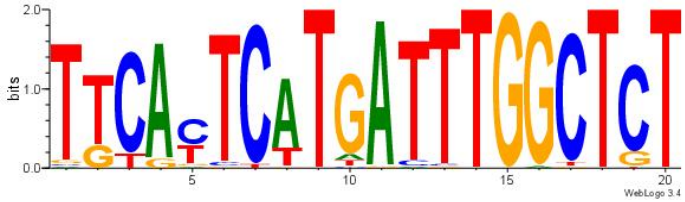

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0890332

Alignment:

```
CCCTACTGTTCTCY
---TTTTTTTMTTT
```

Original motif Consensus sequence: CCCTACTGTTCTCY

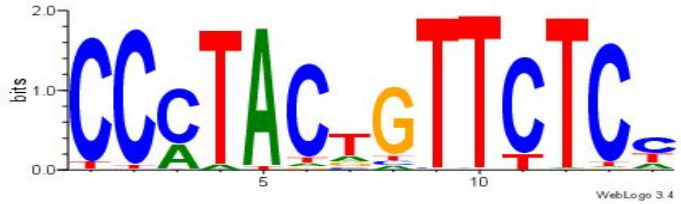

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

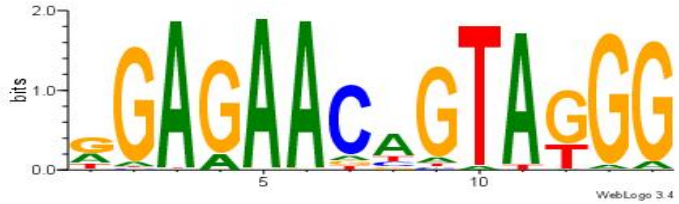

Dataset #:	1
Motif ID:	233

Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0896396

Alignment:

```
AGGCTGTTTTACAGTTAAC
-----TTTTTTTMTTT---
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

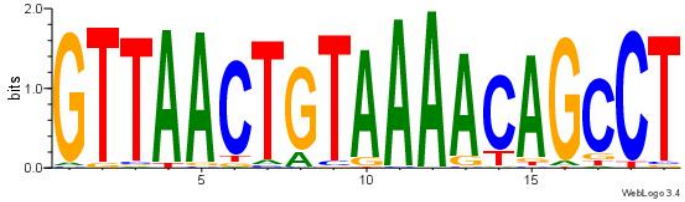

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

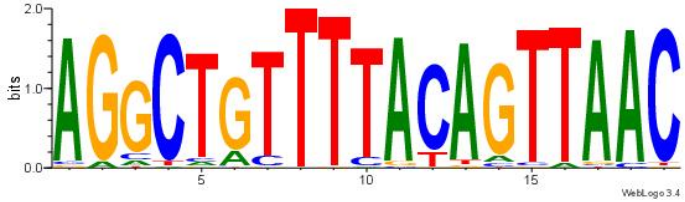

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0907165

Alignment:
AAYRGACTAATACA
---AAAYAAAAAAA

Original motif Consensus sequence: AAYRGACTAATACA

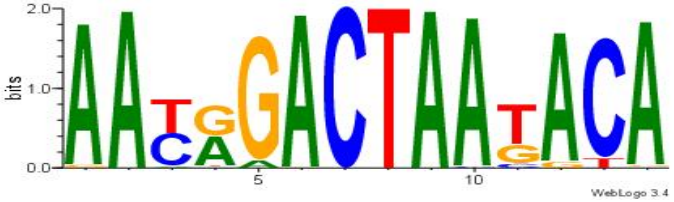

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

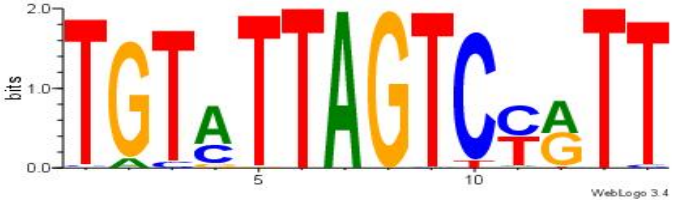

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0911169

Alignment:
AAATTACCCAGTCTCAGGTA
AAAYAAAAAAA---------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

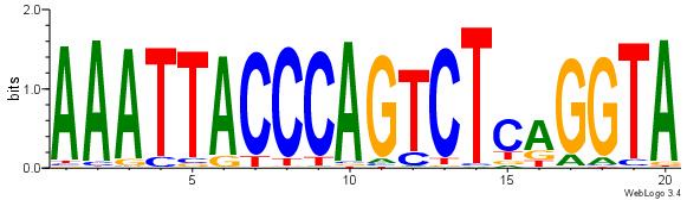

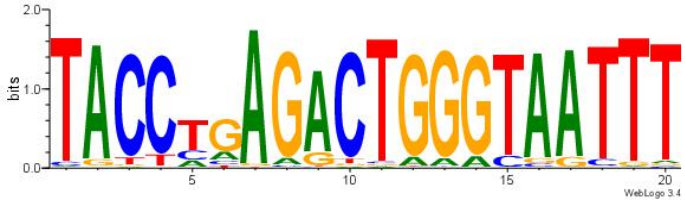

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0912024

Alignment:

```
CTCAGGAATGGAAAACC
-----AAAYAAAAAAA-
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

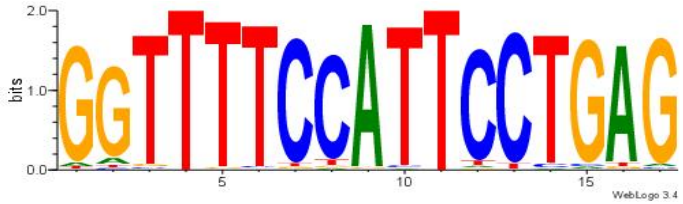

Dataset #:	1

Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0912122

Alignment:

```
GAGCTTTAAGATTT
---TTTTTTTMTTT
```

Original motif Consensus sequence: AAATCTTAAAGCTC

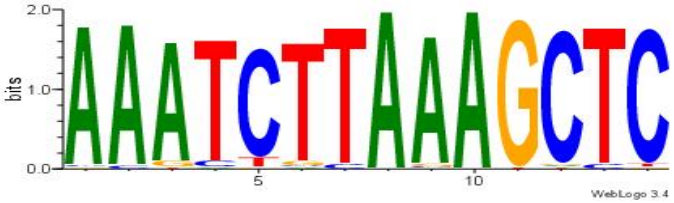

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

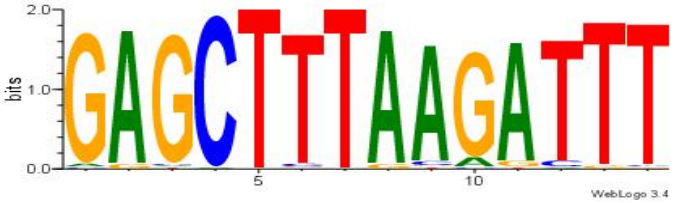

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0920717

Alignment:
CGGCTTCATTCTTGAAGTC
---TTTTTTTMTTT-----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

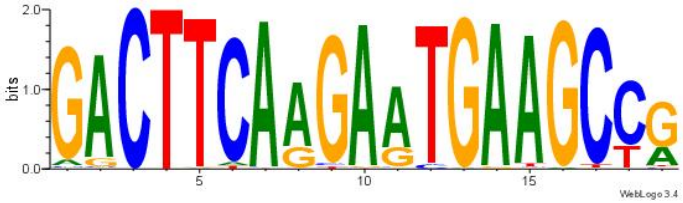

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

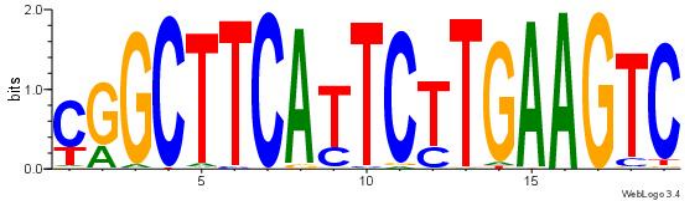

Dataset #:	1
Motif ID:	237
Motif name:	Motif 237
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0921227

Alignment:
TAGCCAAGGRAA
-AAAYAAAAAAA

Original motif Consensus sequence: TAGCCAAGGRAA

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

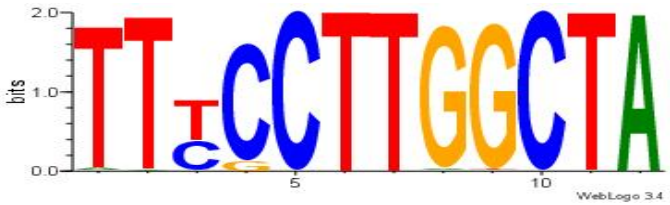

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0924317

Alignment:

```
GCCGTTTKTTAAGCCCGTY
----TTTTTTTMTTT----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

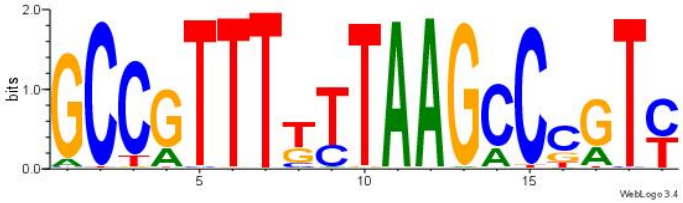

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

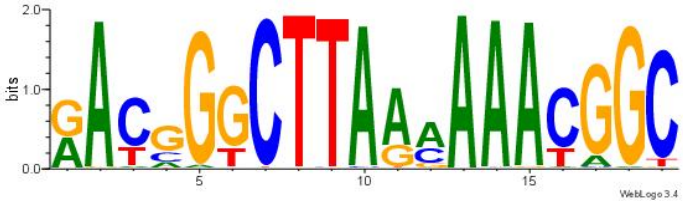

Dataset #:	1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0925923

Alignment:

```
AGCTAGAYACAGAGTGC
AAAYAAAAAAA------
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

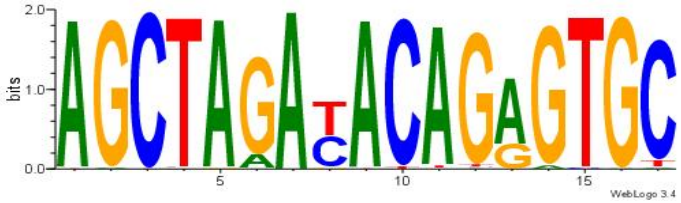

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

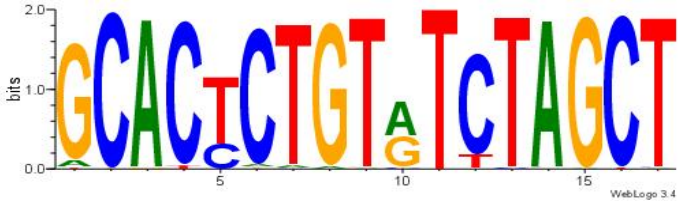

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11

Similarity score: 0.0927603

Alignment:
CTGGCCCTCAATGGTTAAAC
--------AAAYAAAAAAA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

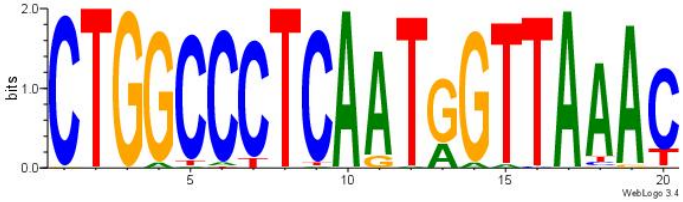

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

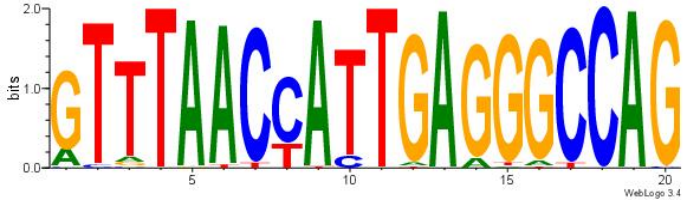

Dataset #: 1 Motif ID: 198 Motif name: Motif 198

Original motif Consensus sequence: AGGGMAGGGA

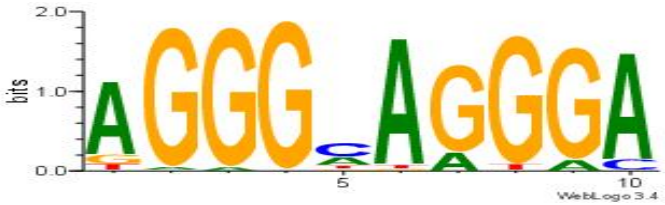

Reverse complement motif Consensus sequence: TCCCTRCCCT

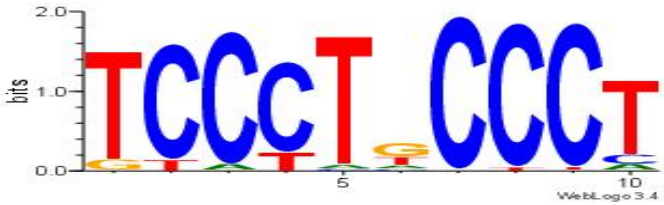

Best Matches for Significant Motif ID 198 (Highest to Lowest)

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0499279

Alignment:
CGAGCCCTGCCCCGCGG
----TCCCTRCCCT---

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

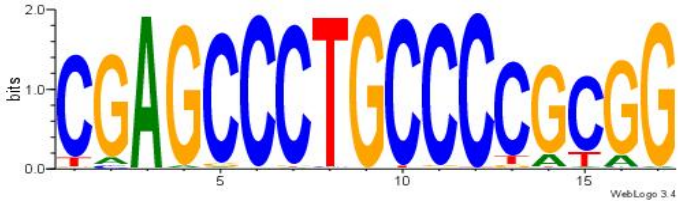

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

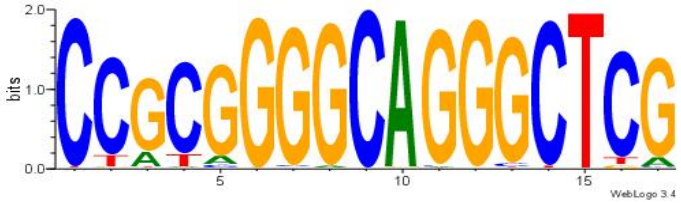

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0554968

Alignment:
GAAAGGGAACTCCCTGACCC
TCCCTRCCCT----------

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

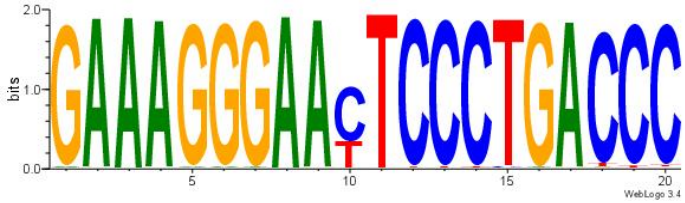

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

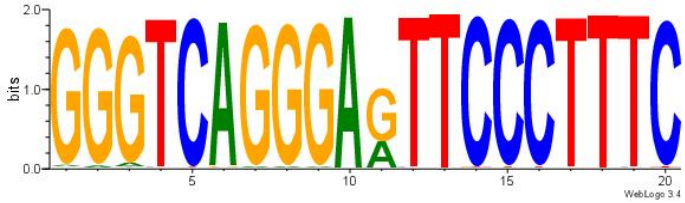

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0566967

Alignment:

```
CCCTCACTGCCCGGGG
---TCCCTRCCCT---
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

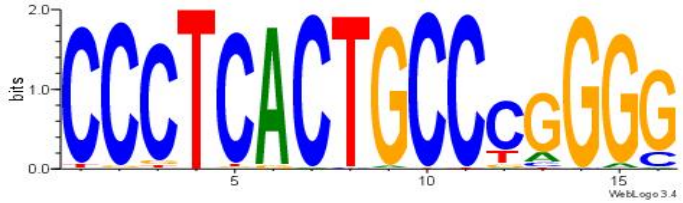

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

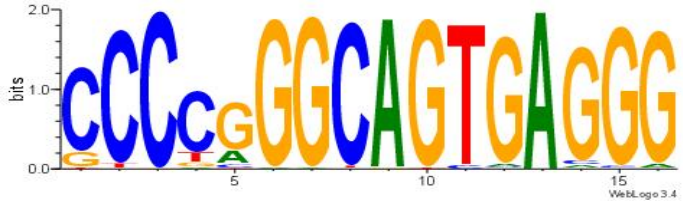

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0612344

Alignment:

```
GGGAGGAAGGGGACAC
---AGGGMAGGGA---
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

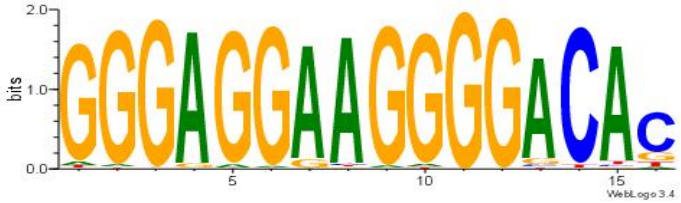

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

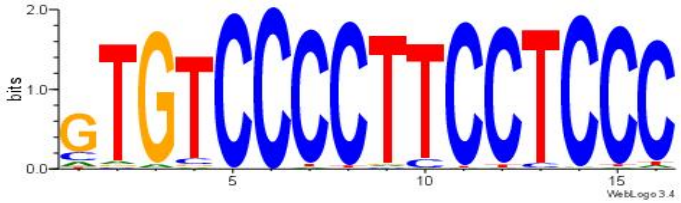

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 10
Similarity score: 0.0645706

Alignment:
TGGGGGWGGGG
AGGGMAGGGA-

Original motif Consensus sequence: CCCCWCCCCCA

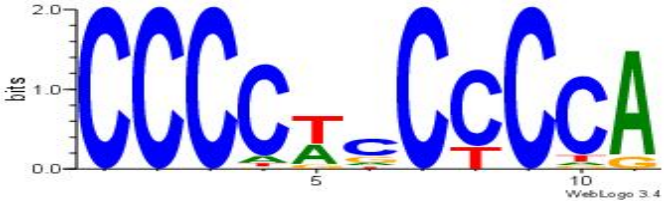

Reverse complement motif Consensus sequence: TGGGGGWGGGG

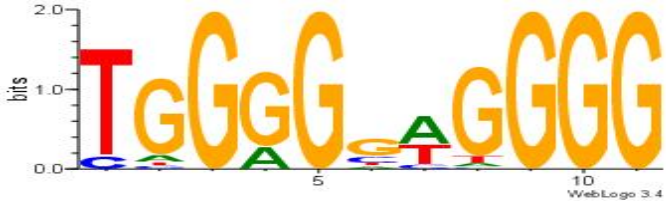

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0655528

Alignment:
GGAGGTGTGGAGGGAGAGGC
-----AGGGMAGGGA-----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

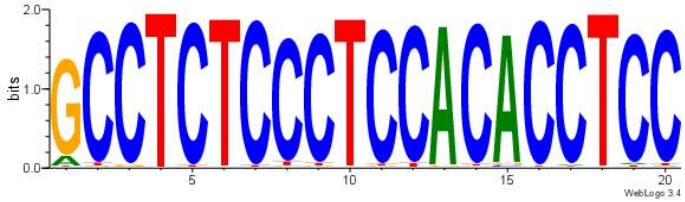

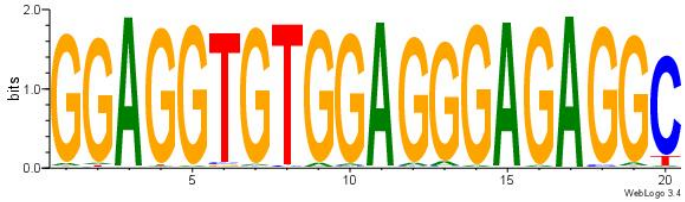

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0663092

Alignment:

```
AAGCAGGGCGAGGCATTGCC
----AGGGMAGGGA------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

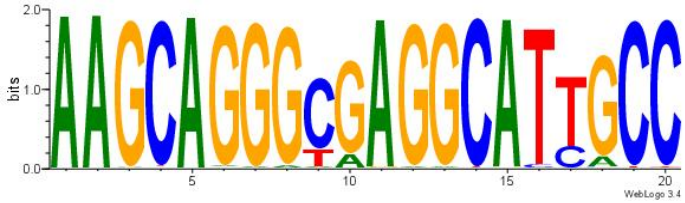

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

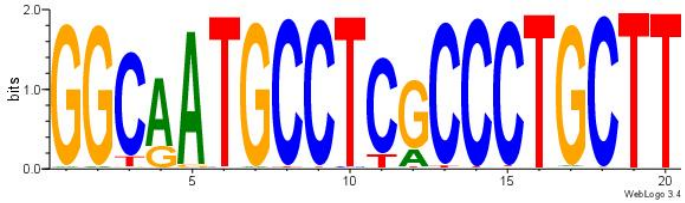

Dataset #:	1

Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0689239

Alignment:

```
GKGGCAGTGAGGC
AGGGMAGGGA---
```

Original motif Consensus sequence: GCCTCACTGCCRC

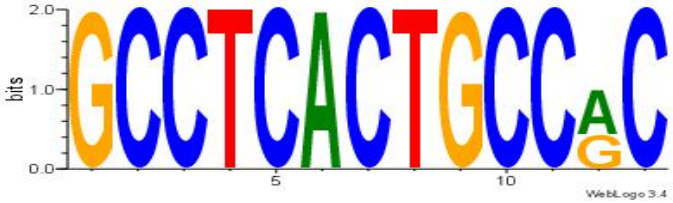

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

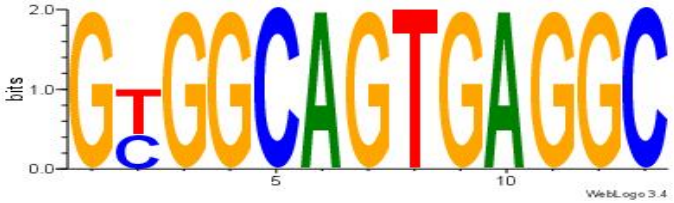

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.069251

Alignment:
GGAGCCGGCTCCCTCAGCTT
---------TCCCTRCCCT-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

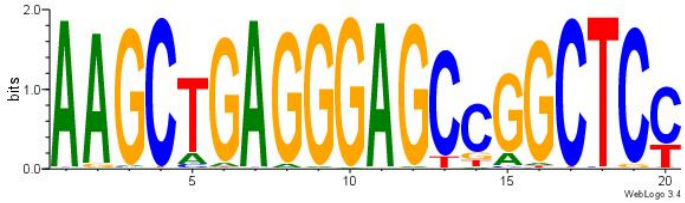

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

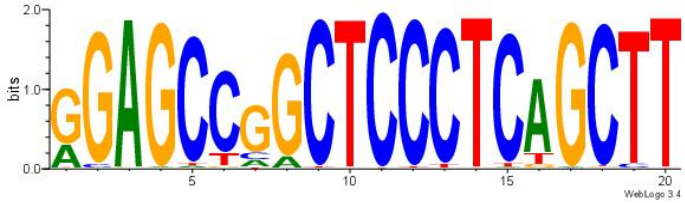

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.069514

Alignment:
CTGGTCAAGGAAA
-AGGGMAGGGA--

Original motif Consensus sequence: CTGGTCAAGGAAA

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

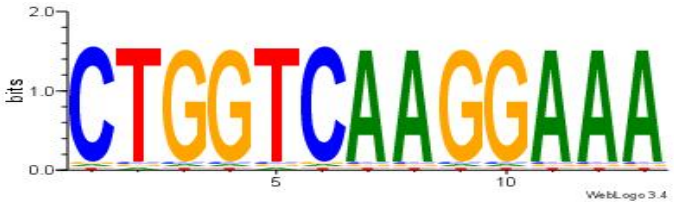

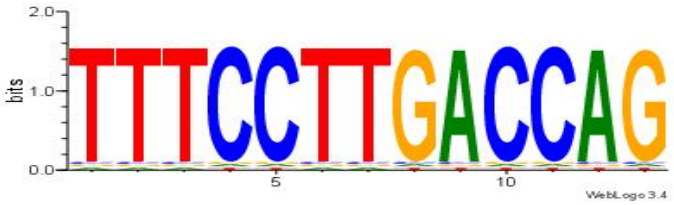

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0705798

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
AGGGMAGGGA----------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

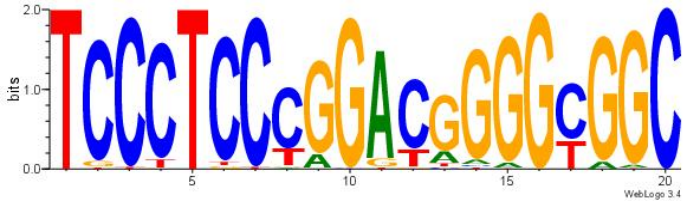

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

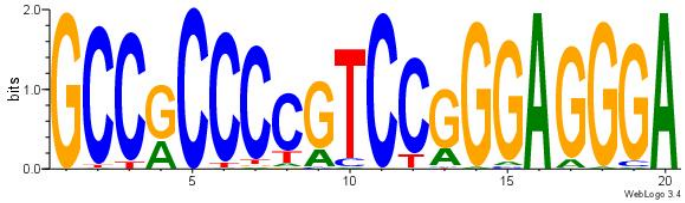

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0716116

Alignment:

```
GCCGGGRAGAGGCGCTCCT
-------AGGGMAGGGA--
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

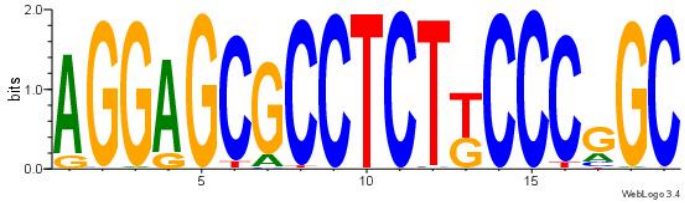

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

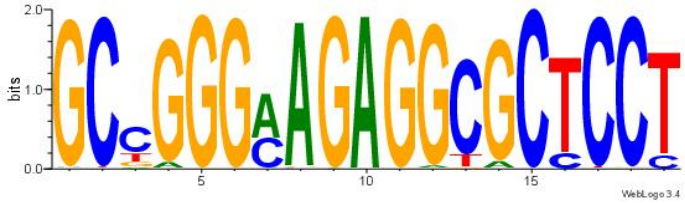

Dataset #:	1
Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0719681

Alignment:
MTTGACTACCCTA
--TCCCTRCCCT-

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

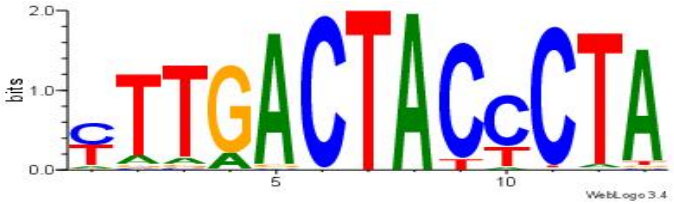

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0730822

Alignment:
CAGGCGGCTGGGAG
---AGGGMAGGGA-

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

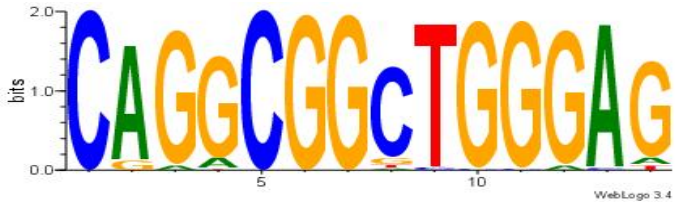

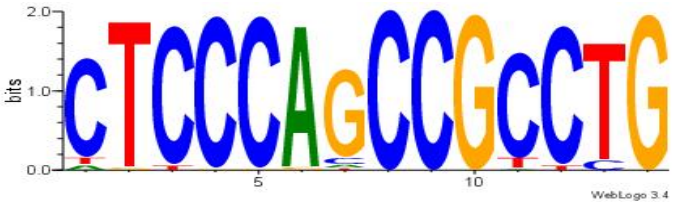

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0756117

Alignment:

```
TCKMGCCACTGCACTCCAGC
-----TCCCTRCCCT-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

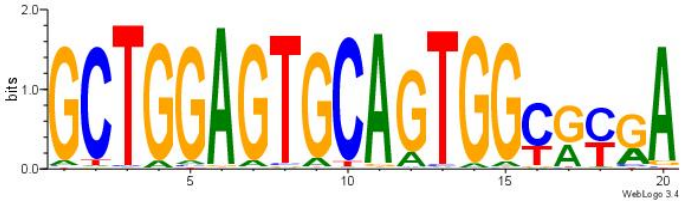

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

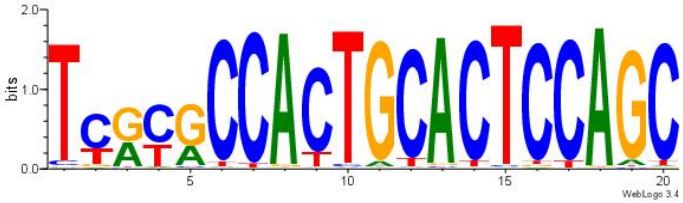

Dataset #: 1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0761196

Alignment:

```
GATCACGAGGTCAGGAG
-------AGGGMAGGGA
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

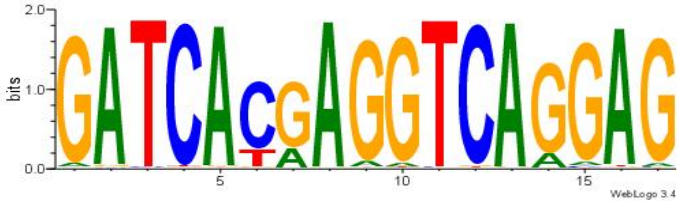

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

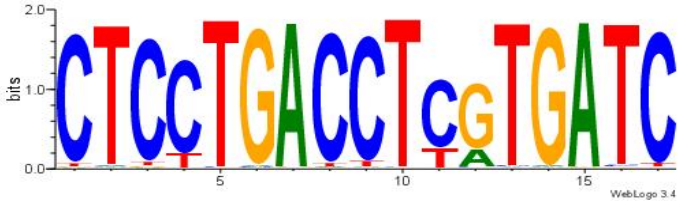

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0761674

Alignment:
GGTGGAGCTGCCTGCCAGTC
--------TCCCTRCCCT--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

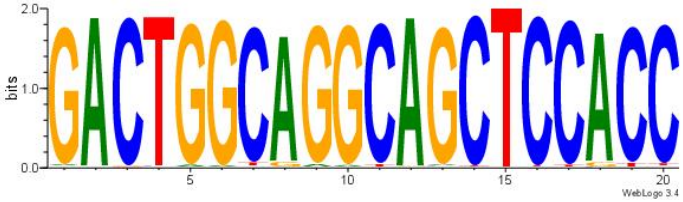

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

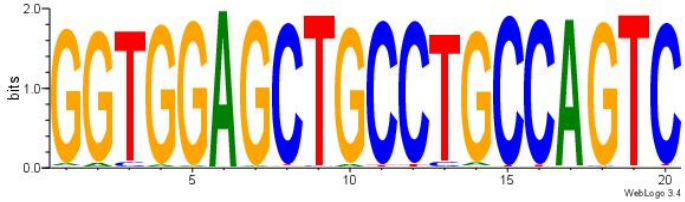

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0765611

Alignment:
CCACCACAGCTCAAGGAGGC
-------AGGGMAGGGA---

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

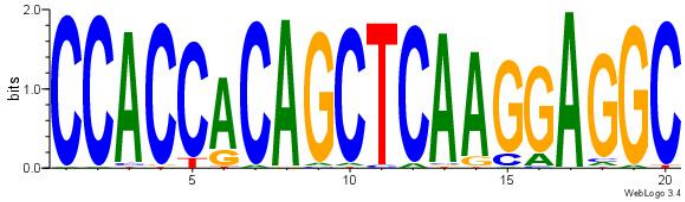

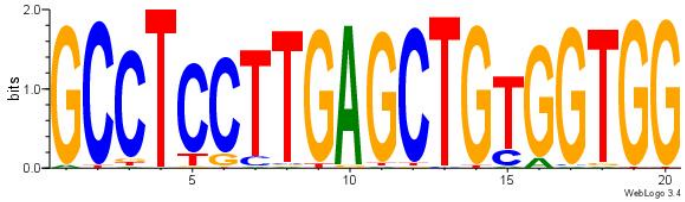

Dataset #:	1
Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.077397

Alignment:

```
GAACTCCTGACCT
---TCCCTRCCCT
```

Original motif Consensus sequence: AGGTCAGGAGTTC

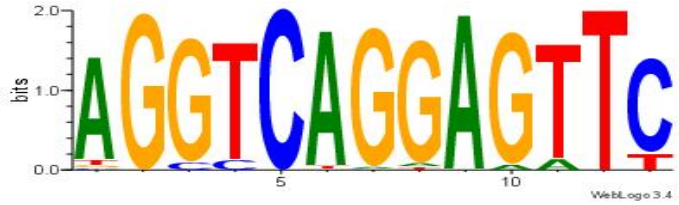

Reverse complement motif Consensus sequence: GAACTCCTGACCT

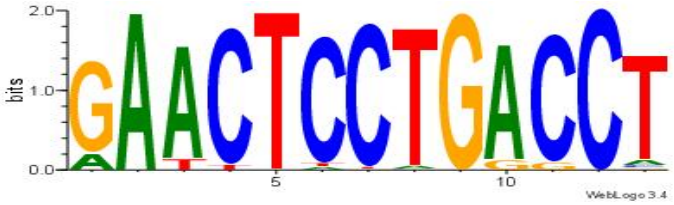

Dataset #:	1
Motif ID:	10

Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0775407

Alignment:

```
MCCYGGCWSMGASGSTCCT
-------AGGGMAGGGA--
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

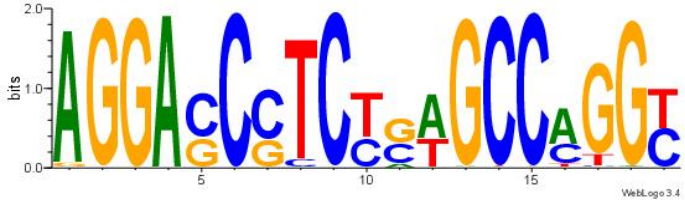

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

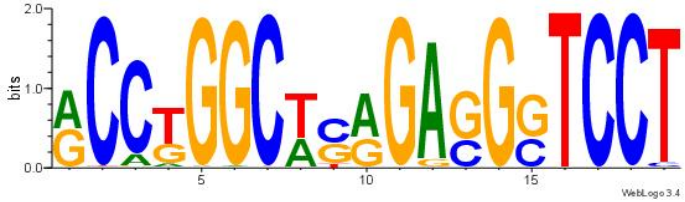

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0782569

Alignment:
CCCACACCCTTATTA
TCCCTRCCCT-----

Original motif Consensus sequence: CCCACACCCTTATTA

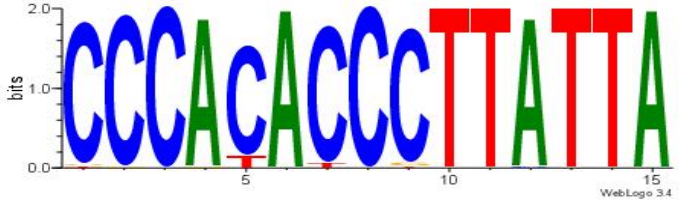

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

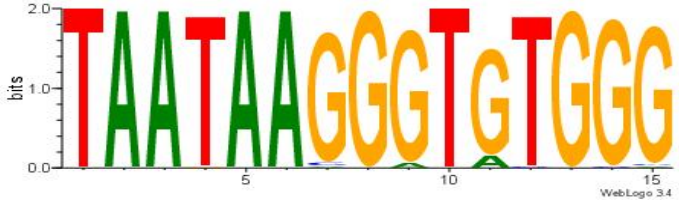

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.078628

Alignment:
KCCGGGCCTTAGCTGCCTTC
---------TCCCTRCCCT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

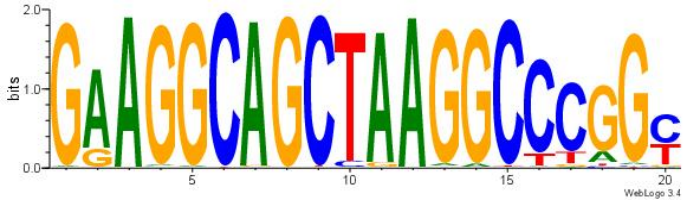

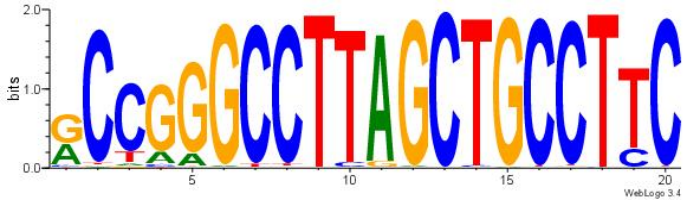

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0791079

Alignment:

```
CTTGCGCTTCCCRRGTGA
-----TCCCTRCCCT---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

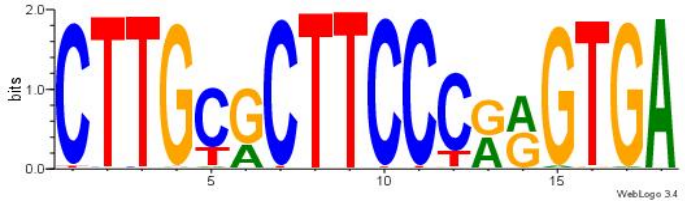

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

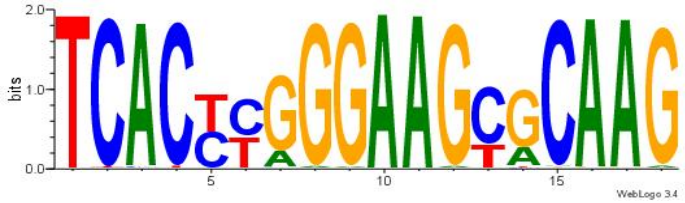

Dataset #: 1

Motif ID:	237
Motif name:	Motif 237
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0792388

Alignment:

```
TAGCCAAGGRAA
-AGGGMAGGGA-
```

Original motif Consensus sequence: TAGCCAAGGRAA

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

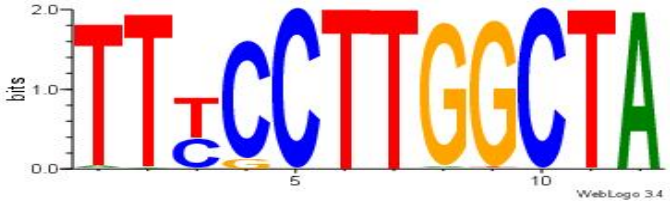

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0806824

Alignment:
CCTCCGTGGGCTCC
--TCCCTRCCCT--

Original motif Consensus sequence: CCTCCGTGGGCTCC

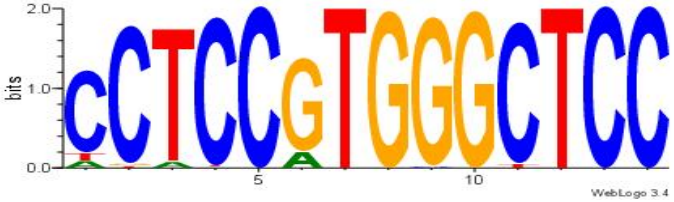

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

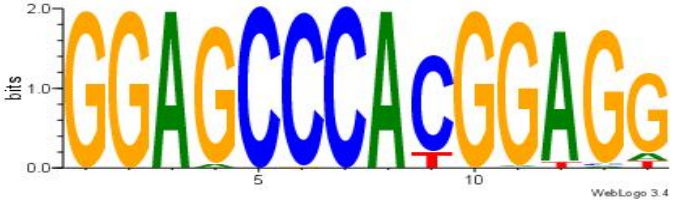

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0811743

Alignment:
GGGCTCCCACAGTGCAGCGG
AGGGMAGGGA----------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

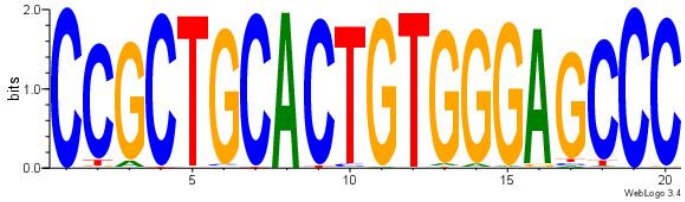

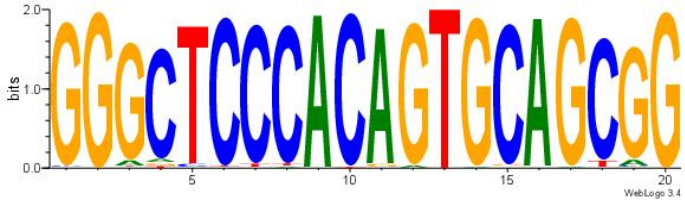

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0815765

Alignment:

```
AGGCGGCTGGGAGG
--AGGGMAGGGA--
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

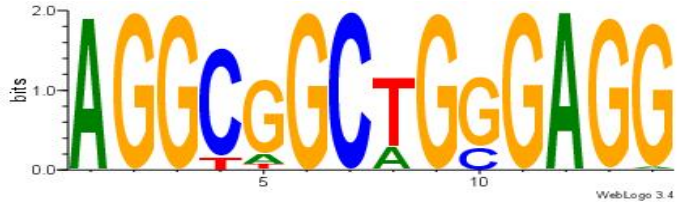

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	214

Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0816296

Alignment:

```
GGTTTTCCATTCCTGAG
-----TCCCTRCCCT--
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

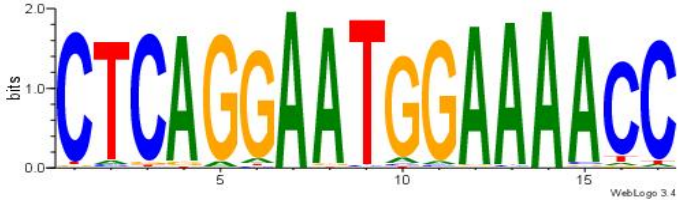

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

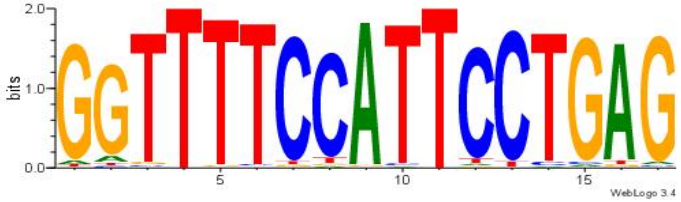

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0817166

Alignment:
GGGGTTGGGG
AGGGMAGGGA

Original motif Consensus sequence: CCCCAACCCC

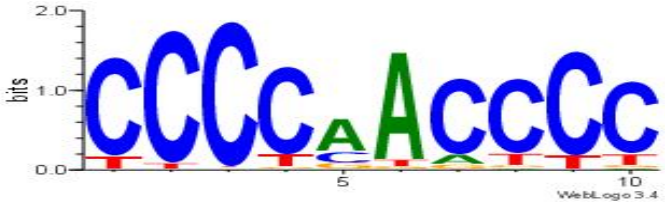

Reverse complement motif Consensus sequence: GGGGTTGGGG

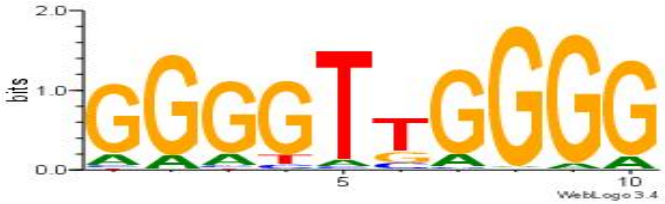

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0821658

Alignment:
MTCCTCCAGACCCCAGAATG
----TCCCTRCCCT------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

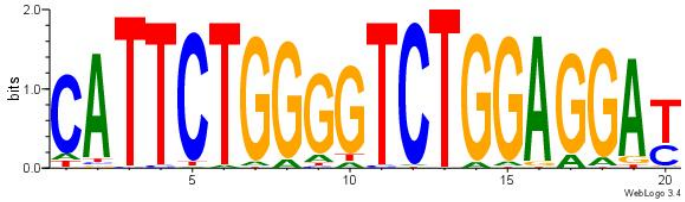

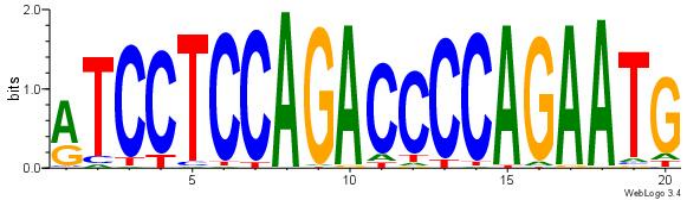

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0834955

Alignment:

```
GGGGGAGACATCACACR
AGGGMAGGGA-------
```

Original motif Consensus sequence: GGGGGAGACATCACACR

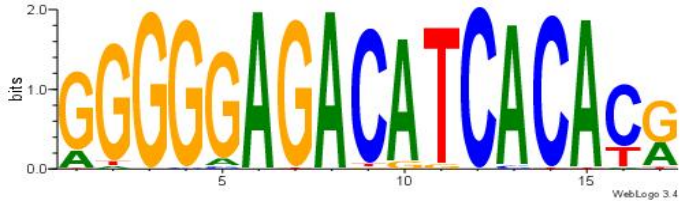

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

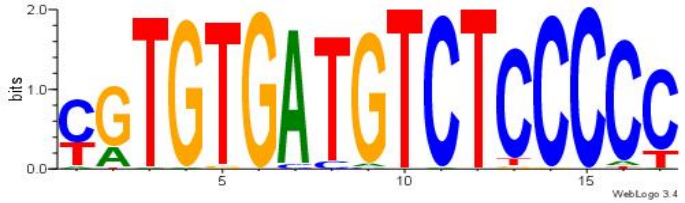

Dataset #: 1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0847173

Alignment:

```
GCCACCAMGCCMKGCTAAT
---TCCCTRCCCT------
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

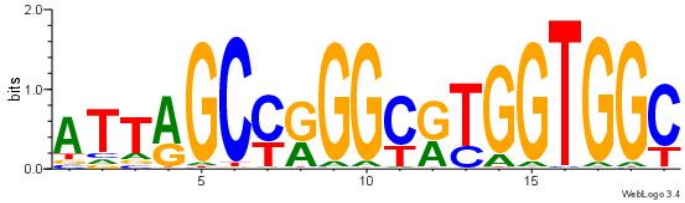

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

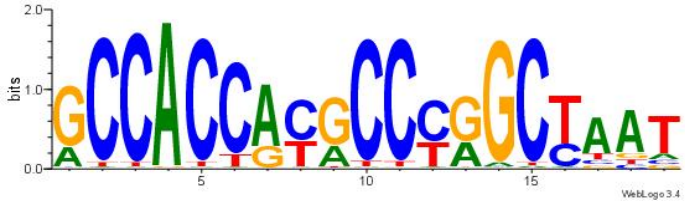

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.0850766

Alignment:
GCTGCARTCTCGGCACTTT
-------TCCCTRCCCT--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

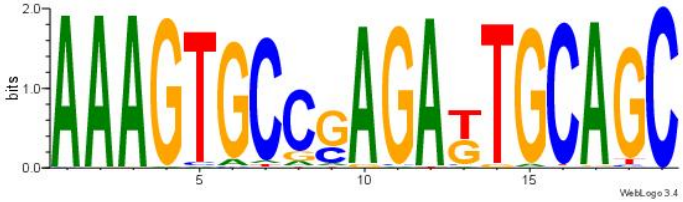

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

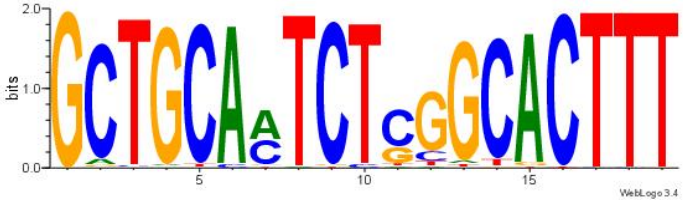

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0850955

Alignment:
GAGGAGGRGGAGGDGGV
-AGGGMAGGGA------

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

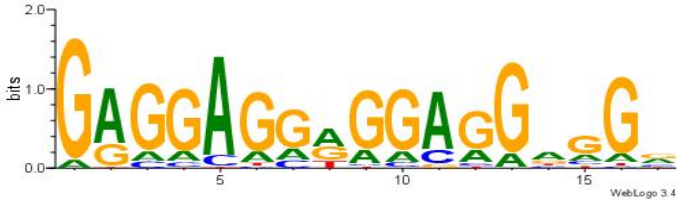

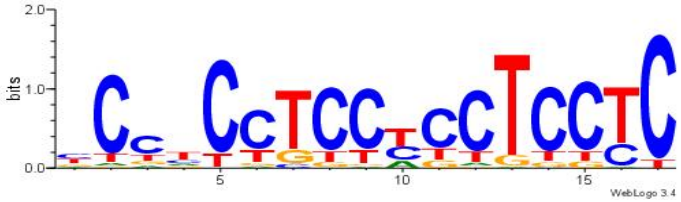

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0854413

Alignment:

```
GCGMGCGGGAACCGGGGCT
--------AGGGMAGGGA-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

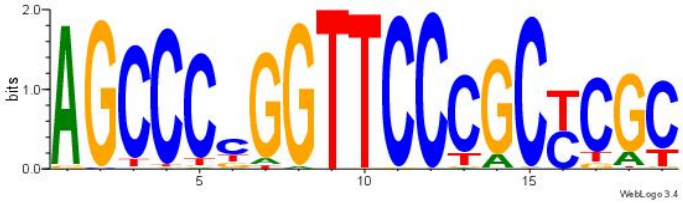

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

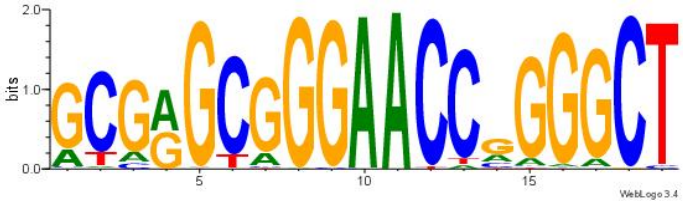

Dataset #:	1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0860589

Alignment:

```
TTGAGGAGGCAGTCTG
-AGGGMAGGGA-----
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

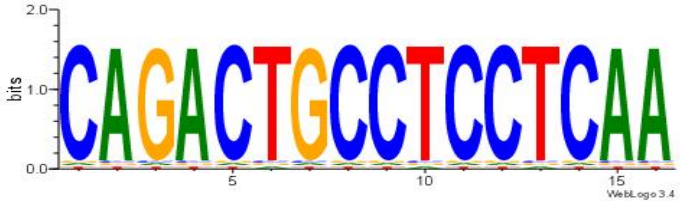

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

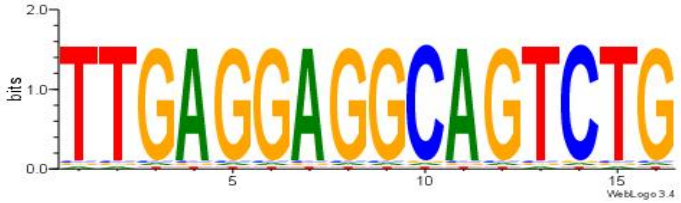

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0860828

Alignment:
TGTGAAGAGACCACCAA
AGGGMAGGGA-------

Original motif Consensus sequence: TGTGAAGAGACCACCAA

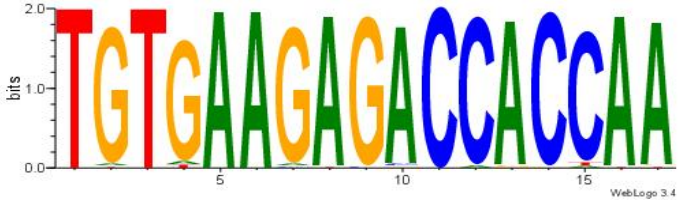

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

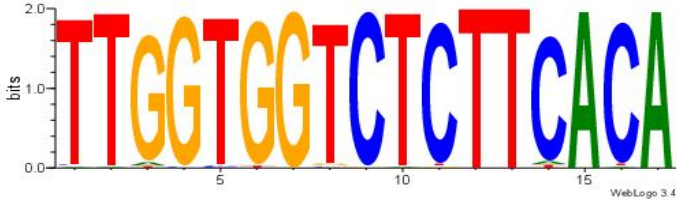

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0864307

Alignment:
CCCACGCCCACCCGGAACT
TCCCTRCCCT---------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

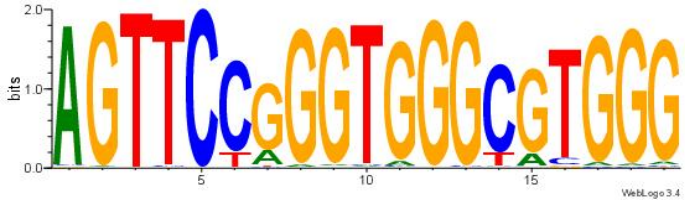

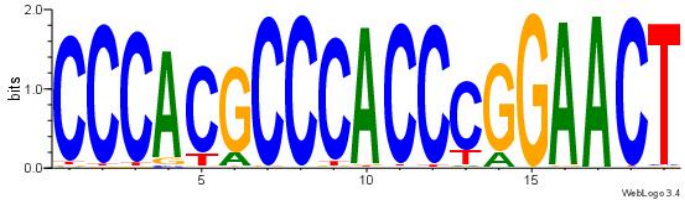

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0870136

Alignment:

```
CGTCCATCACCCC
--TCCCTRCCCT-
```

Original motif Consensus sequence: CGTCCATCACCCC

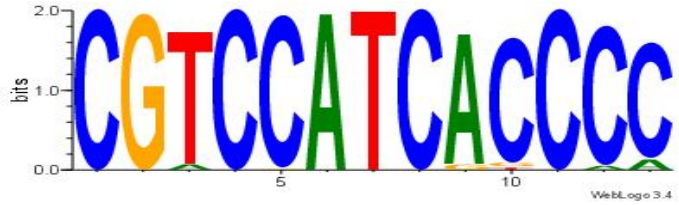

Reverse complement motif Consensus sequence: GGGGTGATGGACG

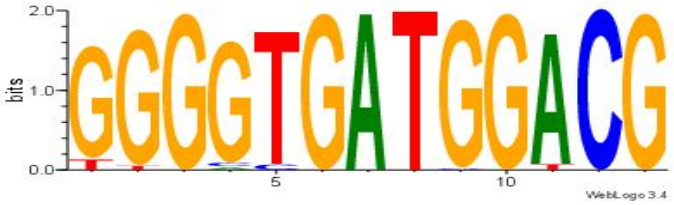

Dataset #:	1
Motif ID:	298

Motif name:	Motif 298
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0873141

Alignment:

```
ATAGAGGAGGACC
--AGGGMAGGGA-
```

Original motif Consensus sequence: ATAGAGGAGGACC

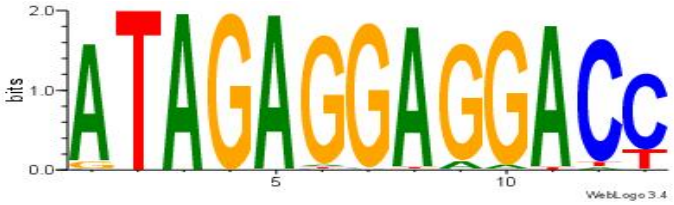

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

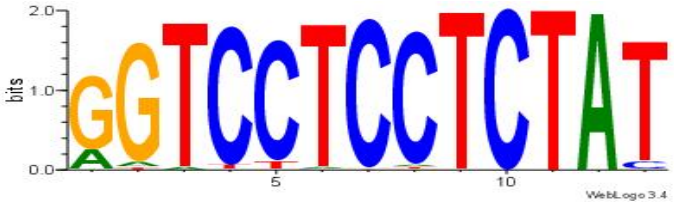

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0881024

Alignment:
AGAAAGGCATGTGAAAA
----AGGGMAGGGA---

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

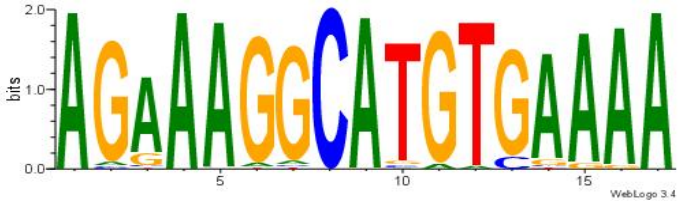

Reverse complement motif Consensus sequence:
TTTTCACATGCCTTTCT

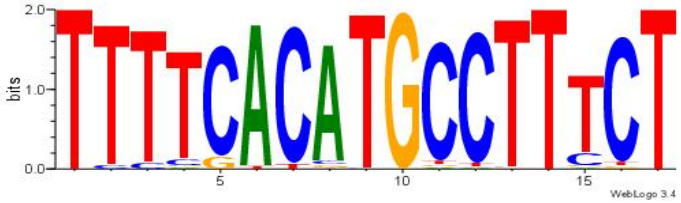

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0881505

Alignment:
CACCTCCCAGACMGGGT
----TCCCTRCCCT---

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

Reverse complement motif Consensus sequence:
CACCTCCCAGACMGGGT

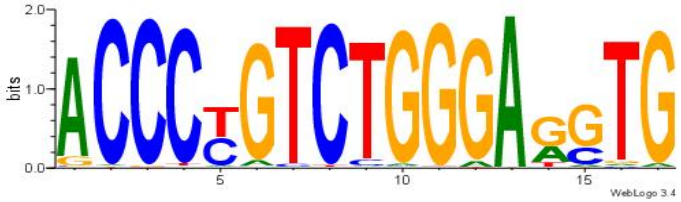

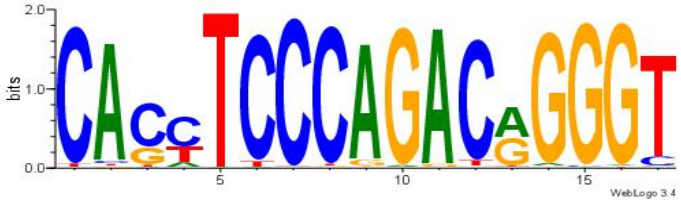

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0891407

Alignment:

```
GCTTCTGGTGAGGGC
-----AGGGMAGGGA
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

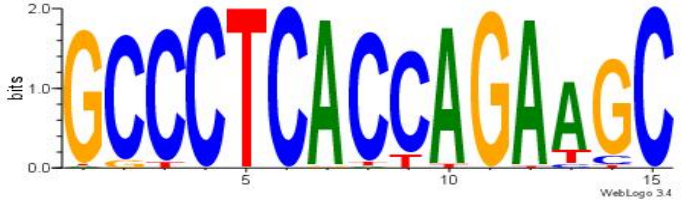

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

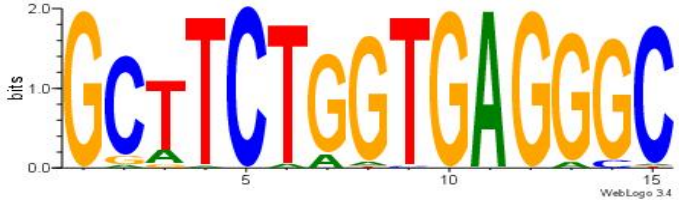

Dataset #:	1
Motif ID:	183

Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0894863

Alignment:

```
GGCCMGCAGGGCKGGC
----AGGGMAGGGA--
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

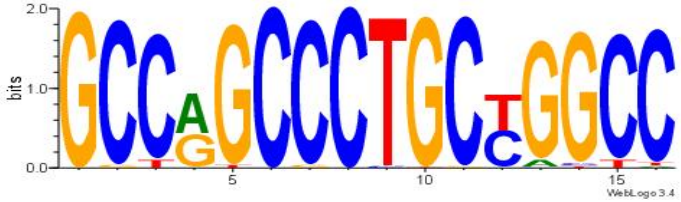

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

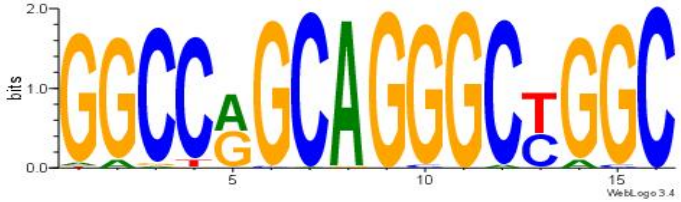

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0896272

Alignment:
CGGCGCTGMGCTCGATTTCT
--TCCCTRCCCT--------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

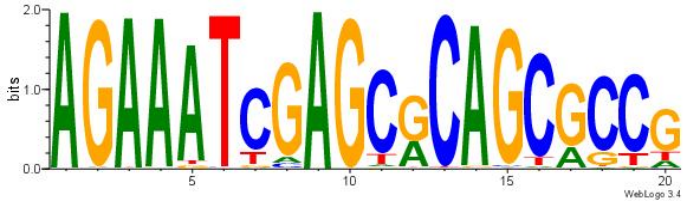

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

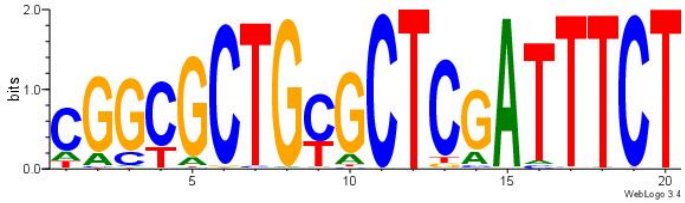

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0900039

Alignment:
TCCAAATGGGAGAAATTGGC
-----AGGGMAGGGA-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

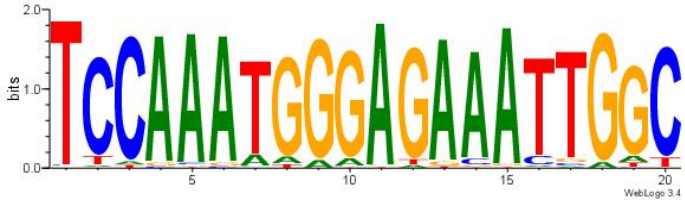

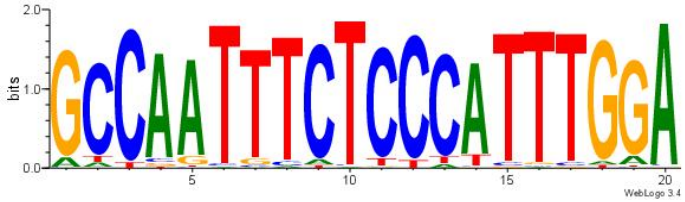

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0914776

Alignment:

```
AAGTGAAATAA
-AGGGMAGGGA
```

Original motif Consensus sequence: AAGTGAAATAA

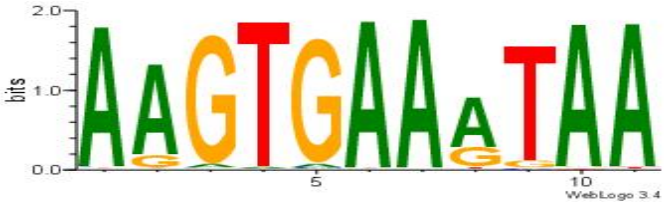

Reverse complement motif Consensus sequence: TTATTTCACTT

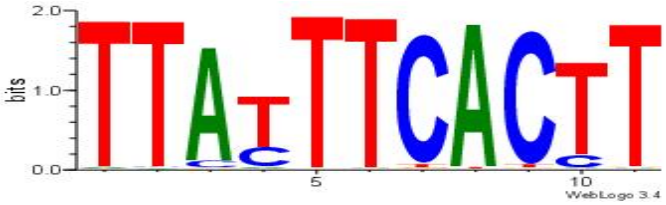

Dataset #:	1
Motif ID:	108

Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0917777

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--------TCCCTRCCCT--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

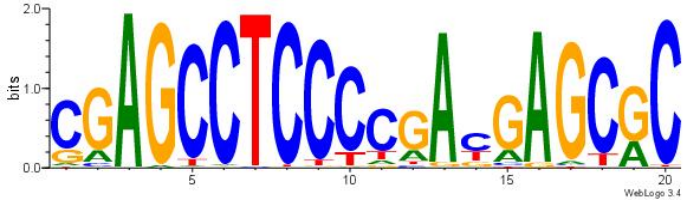

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

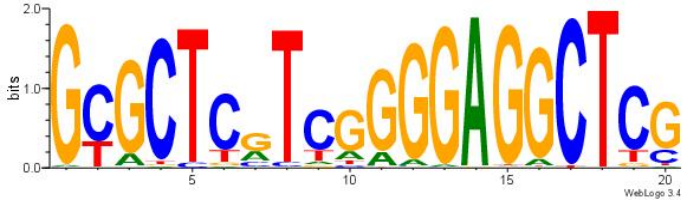

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0918256

Alignment:
TACACCCTCCGCAGCC
---TCCCTRCCCT---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

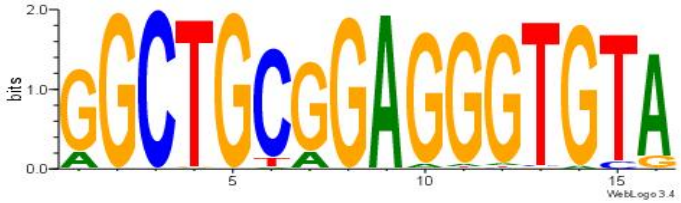

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

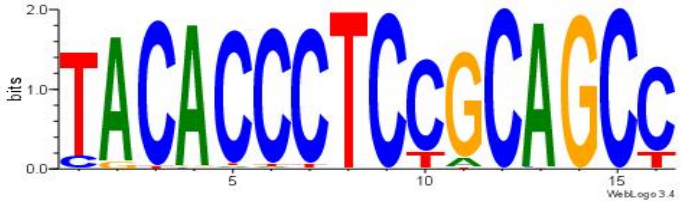

Dataset #:	1
Motif ID:	50
Motif name:	Motif 50
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0918713

Alignment:
GATGTGAGGGC
-AGGGMAGGGA

Original motif Consensus sequence: GATGTGAGGGC

Reverse complement motif Consensus sequence: GCCCTCACATC

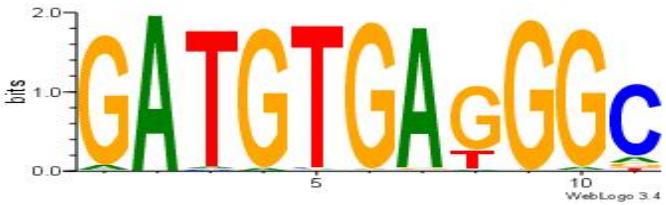

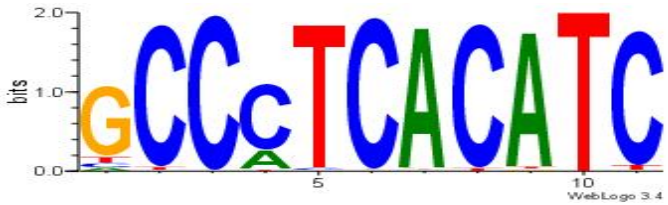

Dataset #: 1 **Motif ID: 57** **Motif name: Motif 57**

Original motif Consensus sequence: AAATATTTATT

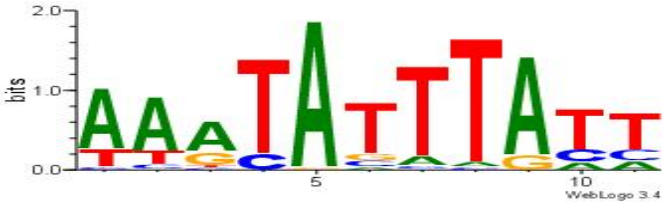

Reverse complement motif Consensus sequence: AATAAATATTT

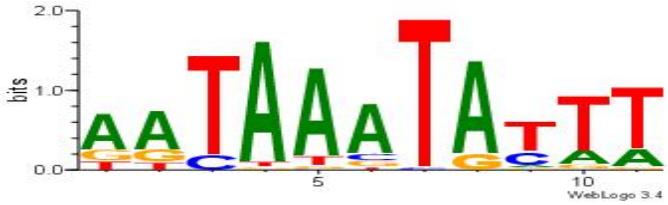

Best Matches for Significant Motif ID 57 (Highest to Lowest)

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0640425

Alignment:

```
ATGGCTGAATAKTATTCCAT
---AATAAATATTT------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

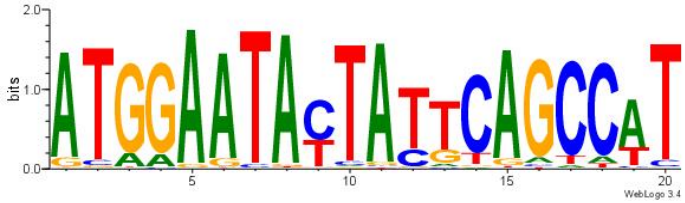

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

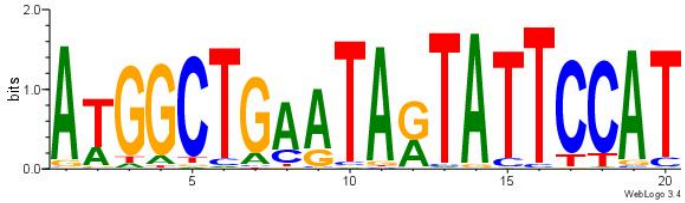

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0653502

Alignment:

```
GCAGCAMTATTCACAATAG
----AAATATTTATT----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

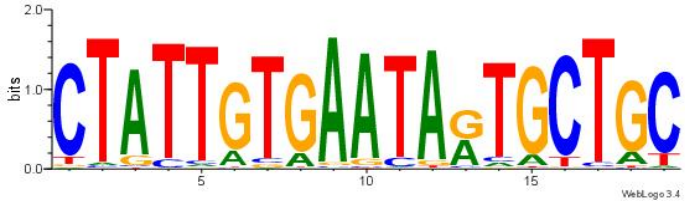

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

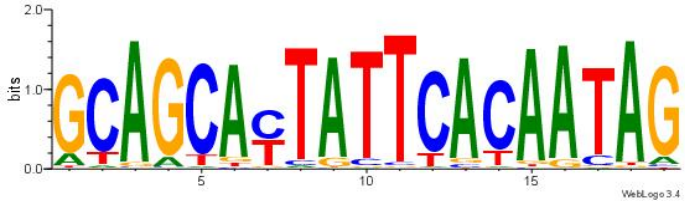

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0659605

Alignment:

```
AGGTTTGTTACATAGGTAWA
---------AAATATTTATT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

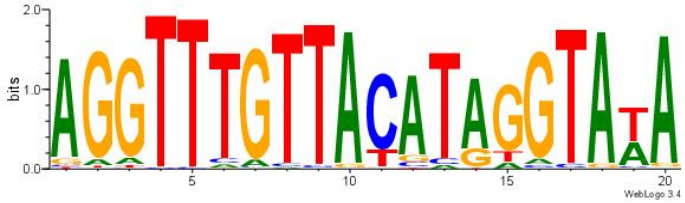

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

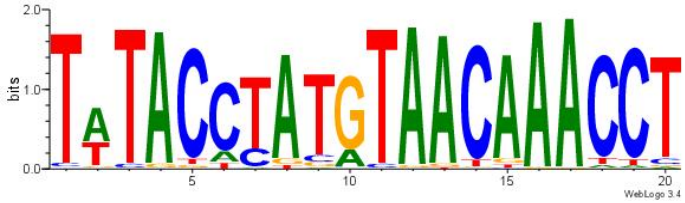

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 11
Similarity score: 0.0663702

Alignment:
TAAAAGACTACAWATTGGGT
------AATAAATATTT---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

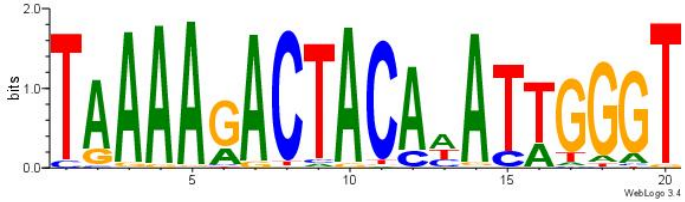

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

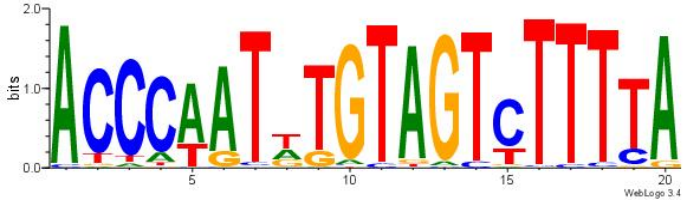

Dataset #: 1
Motif ID: 168
Motif name: Motif 168
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.066951

Alignment:
AGGTATTTCTCCCACC
AAATATTTATT-----

Original motif Consensus sequence: AGGTATTTCTCCCACC

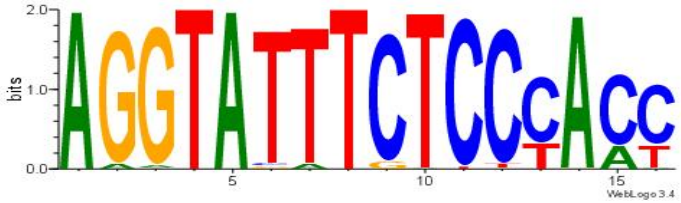

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

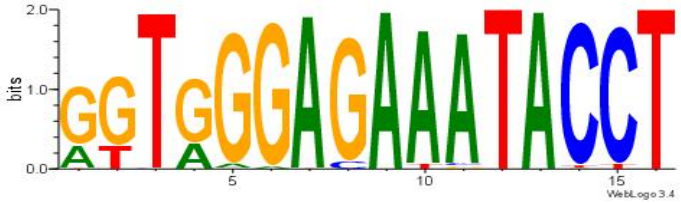

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0676206

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
---AATAAATATTT------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

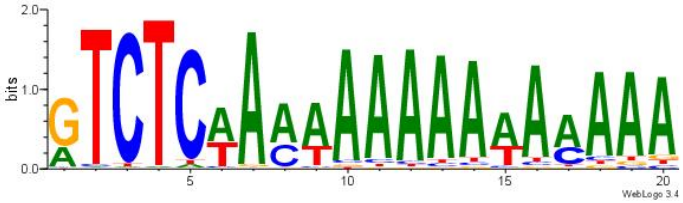

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

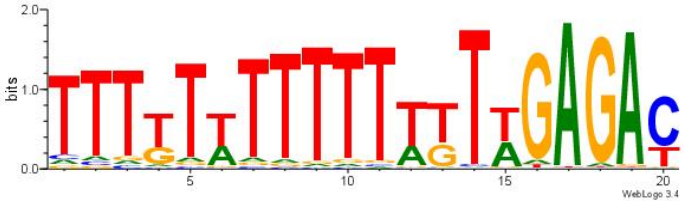

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0691531

Alignment:

```
TGAGKCAATTAAACCTCTT
-------AATAAATATTT-
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

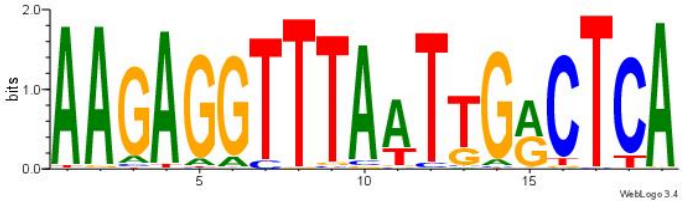

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

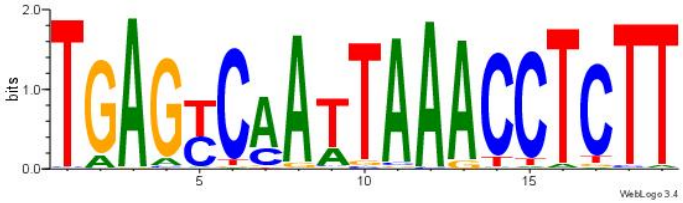

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 11
Similarity score: 0.0705178

Alignment:
TTCAMTCATGATTTGGCTCT
---AATAAATATTT------

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

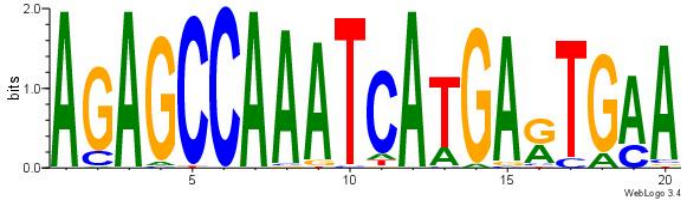

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

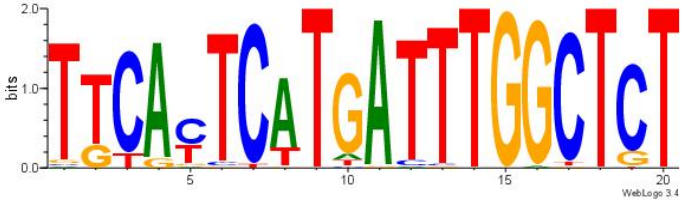

Dataset #: 1
Motif ID: 226
Motif name: Motif 226
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.070587

Alignment:
CCATGTTTATT
AAATATTTATT

Original motif Consensus sequence: AATAAACATGG

Reverse complement motif Consensus sequence: CCATGTTTATT

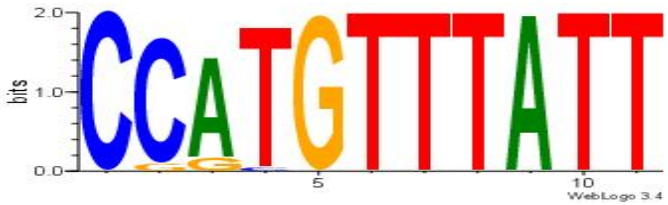

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0710381

Alignment:

```
CAAAGTCTTAACTCATT
--AAATATTTATT----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

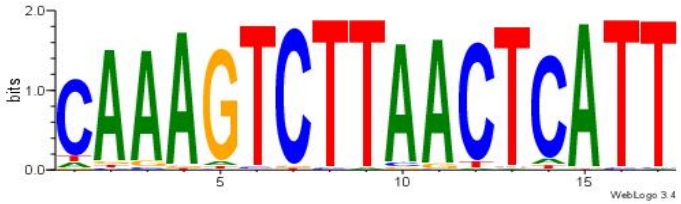

Dataset #: 1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0713416

Alignment:

```
ATTGGTGTATTTACAATCCC
----AAATATTTATT-----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

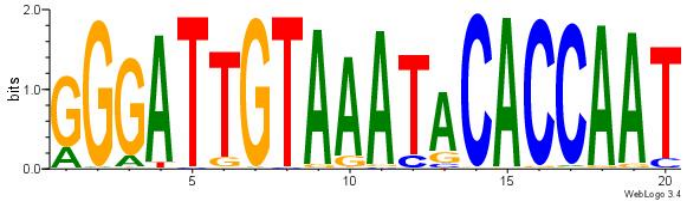

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.0717986

Alignment:
CTGGCCCTCAATGGTTAAAC
-----AATAAATATTT----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

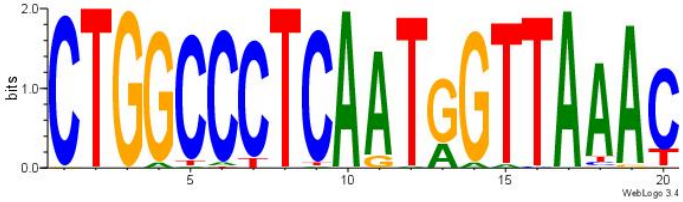

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

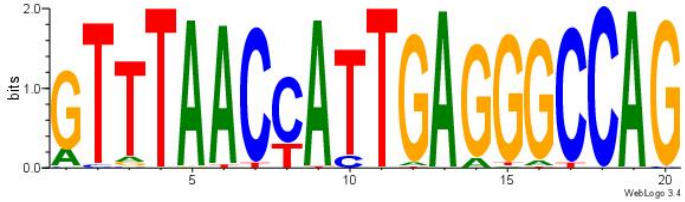

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0721335

Alignment:
AAAATGTGGTAYATAYAYAC
--------AAATATTTATT-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

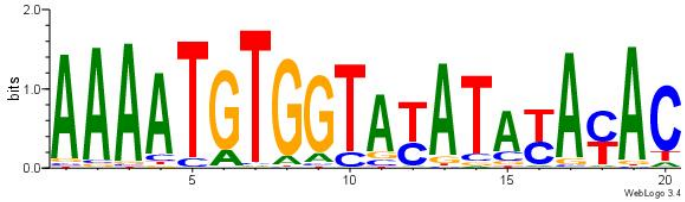

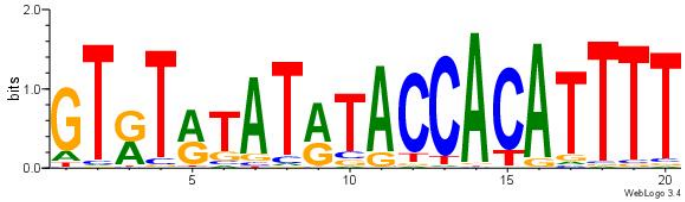

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0723356

Alignment:

```
CTAGACATAAAGGTTCTCCA
-----AATAAATATTT----
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

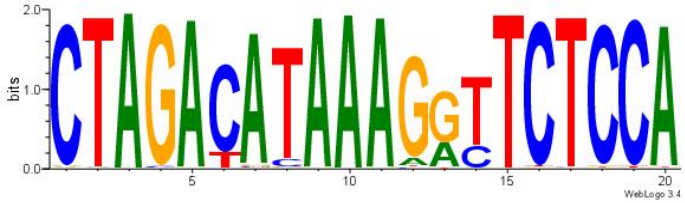

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

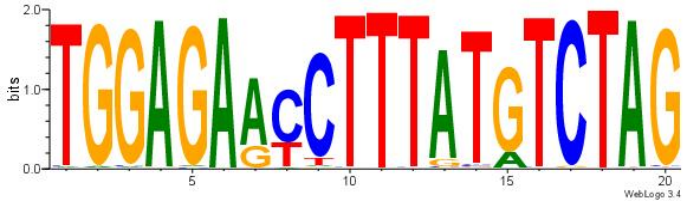

Dataset #: 1

Motif ID:	79
Motif name:	Motif 79
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.072596

Alignment:

```
ATTCATTCATT
AAATATTTATT
```

Original motif Consensus sequence: AATGAATGAAT

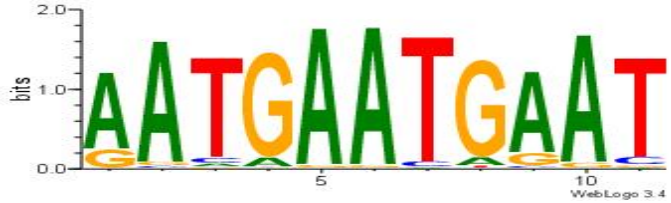

Reverse complement motif Consensus sequence: ATTCATTCATT

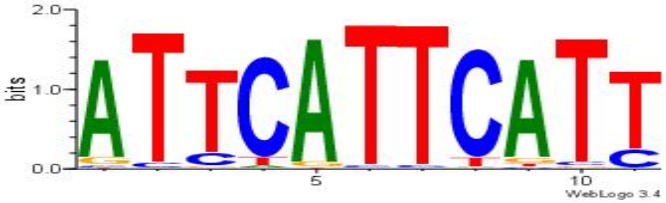

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0730618

Alignment:
GTTGTGAGGATTAAATGAG
-----AAATATTTATT---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

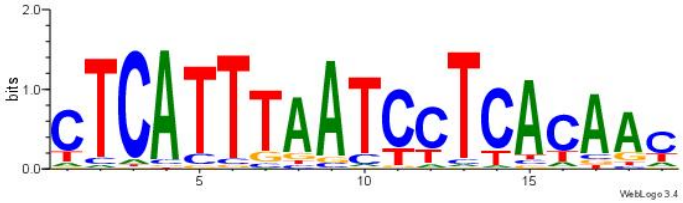

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

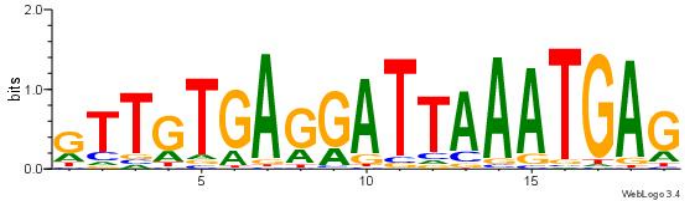

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0731123

Alignment:
GGGAGGGATATATTAGC
---AAATATTTATT---

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

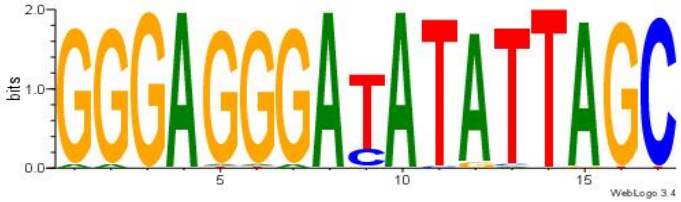

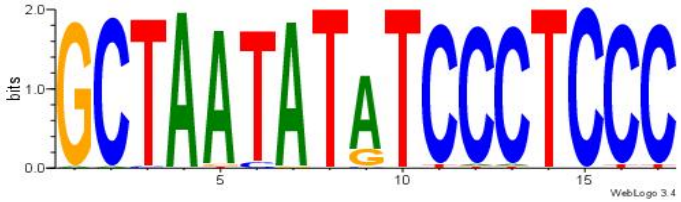

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0739443

Alignment:

```
TAGTTTTTAACAA
AAATATTTATT--
```

Original motif Consensus sequence: TAGTTTTTAACAA

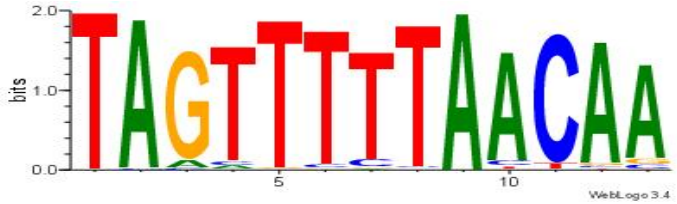

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

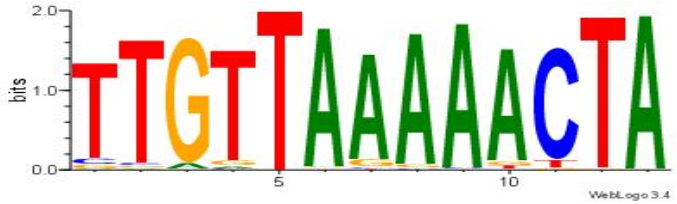

Dataset #:	1
Motif ID:	86

Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0748024

Alignment:

```
AGTAGGTGCTCARTAAATRB
-------AATAAATATTT--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

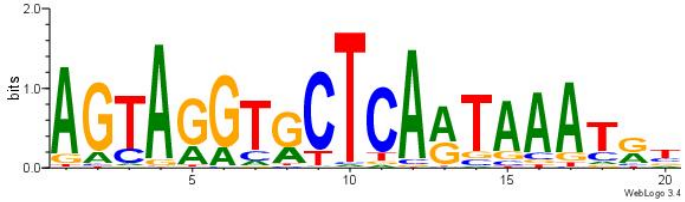

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

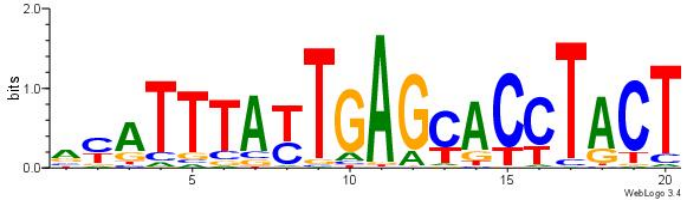

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0748808

Alignment:
GAGCTTTAAGATTT
---AATAAATATTT

Original motif Consensus sequence: AAATCTTAAAGCTC

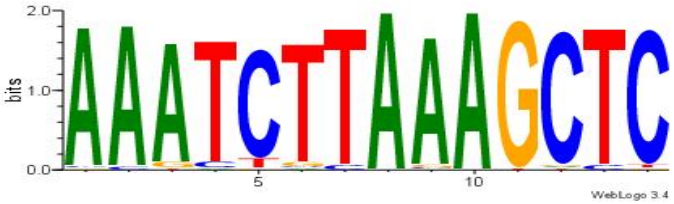

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

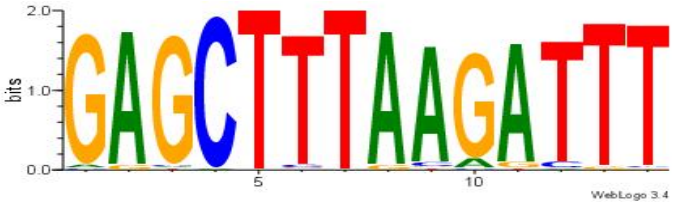

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0768848

Alignment:
AAAATCACAAGCATTCCTAT
--------AAATATTTATT-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

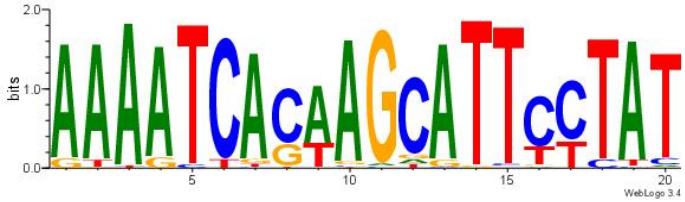

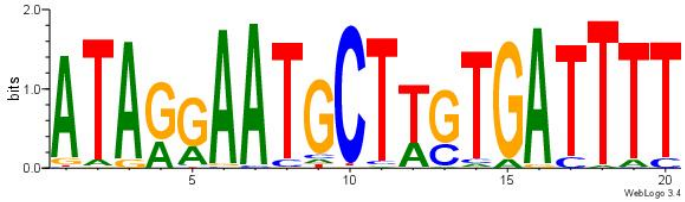

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.077399

Alignment:

```
ATAAAAACTTGCTGGTTTT
--AAATATTTATT------
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

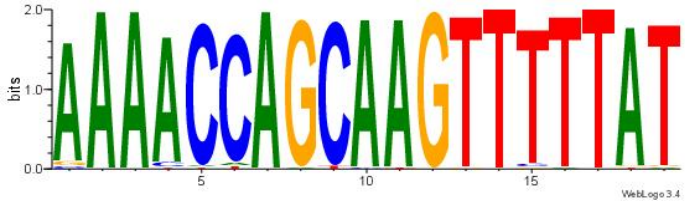

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

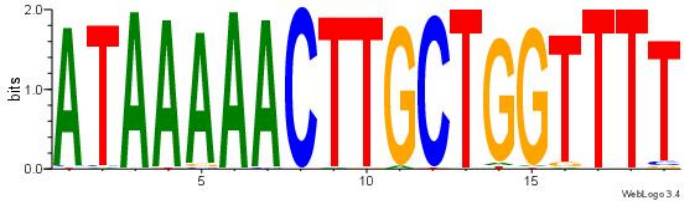

Dataset #:	1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0776283

Alignment:

```
GCTCTCAATTGGTCATT
------AAATATTTATT
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

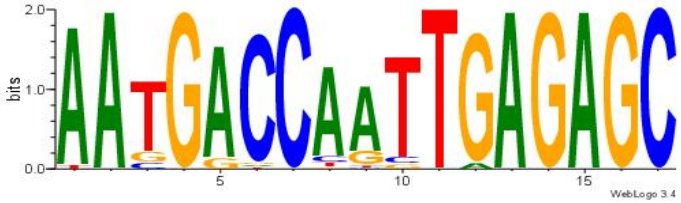

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

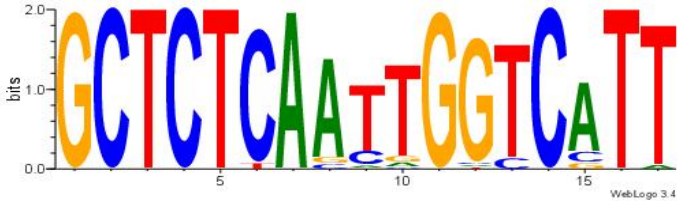

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0780502

Alignment:
AGGTCCTTCAGGAGGTATTC
--------AAATATTTATT-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

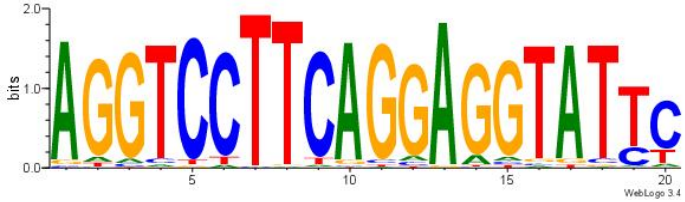

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

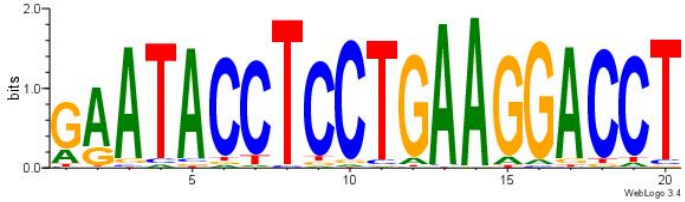

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0784055

Alignment:
ACACATCACAAAGCAGTTTC
-------AATAAATATTT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

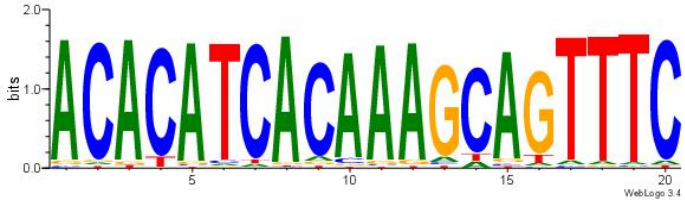

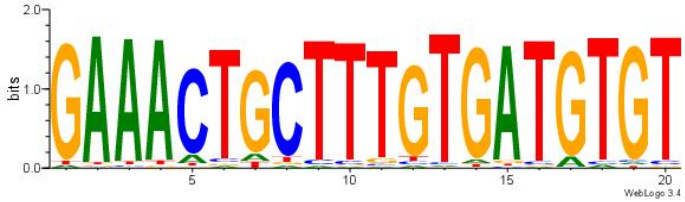

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0792017

Alignment:

```
AATGAKATCATGTCYTTTGC
AAATATTTATT---------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

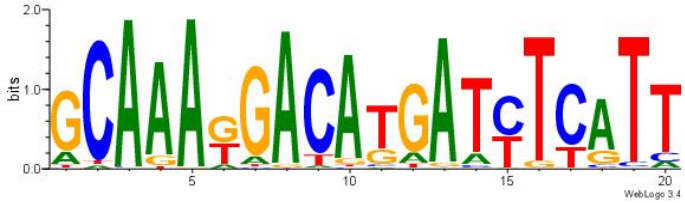

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

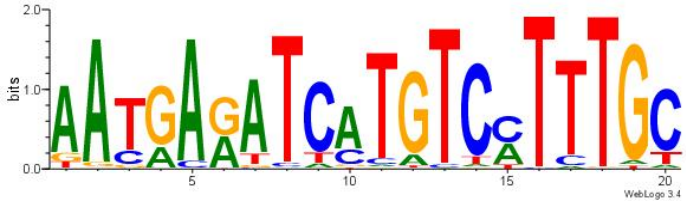

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0798861

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
------AAATATTTATT---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

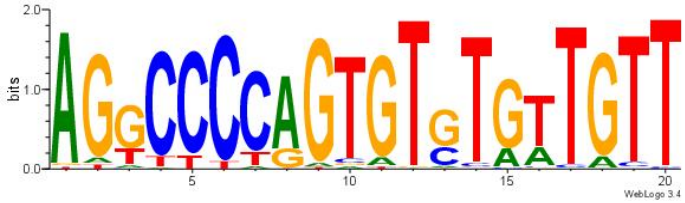

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

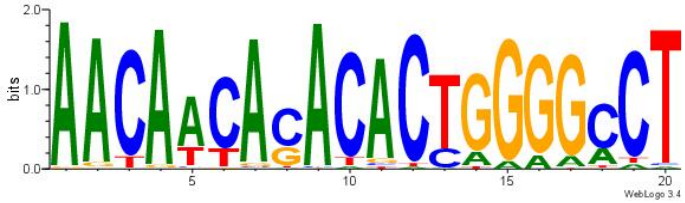

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0815975

Alignment:
TAGTGGTGATTTSTGAGAT
AAATATTTATT--------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

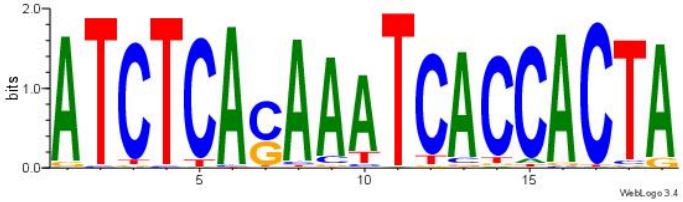

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

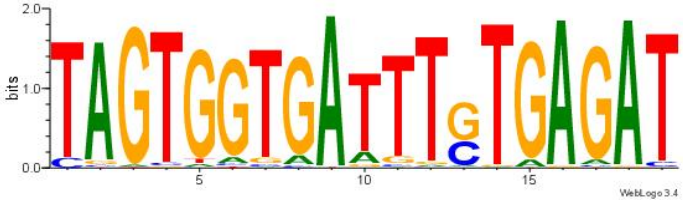

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.0818577

Alignment:
CAAGTTGACACATAAAATTA
---------AATAAATATTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

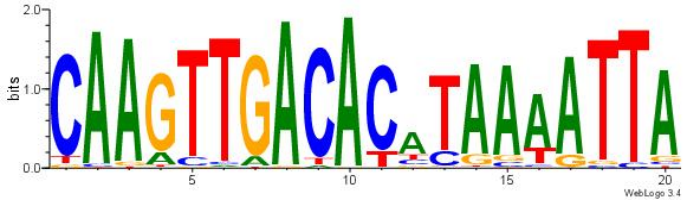

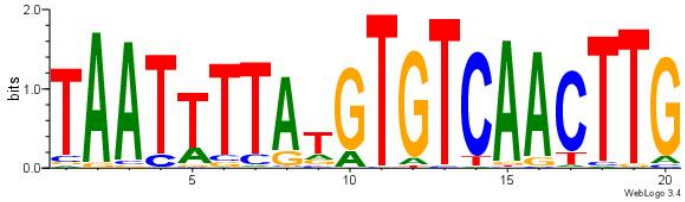

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0825023

Alignment:

```
GATACAAAATCAATGTR
---AATAAATATTT---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

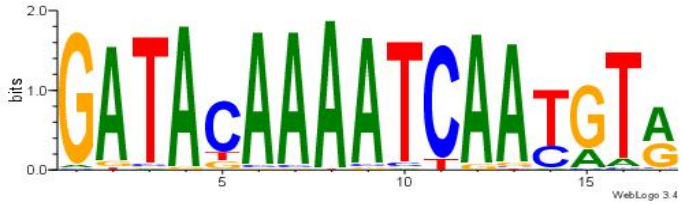

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

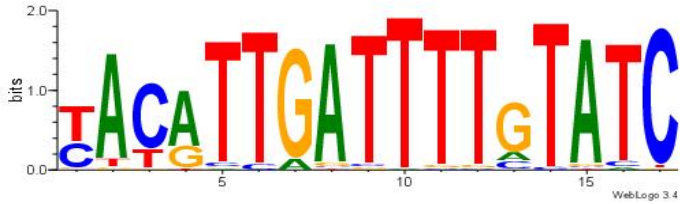

Dataset #:	1

Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0825244

Alignment:

```
TTTAACTCTGTGAG
AATAAATATTT---
```

Original motif Consensus sequence: CTCACAGAGTTAAA

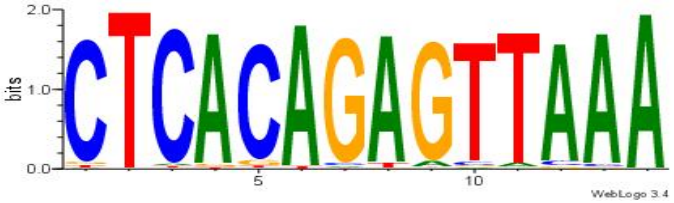

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

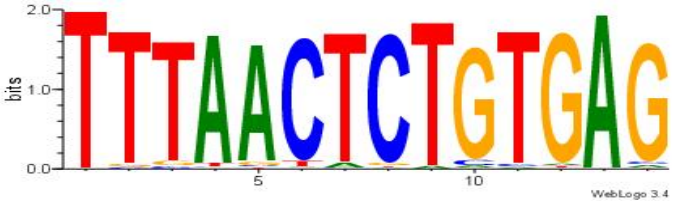

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.082949

Alignment:
CCCACACCCTTATTA
---AAATATTTATT-

Original motif Consensus sequence: CCCACACCCTTATTA

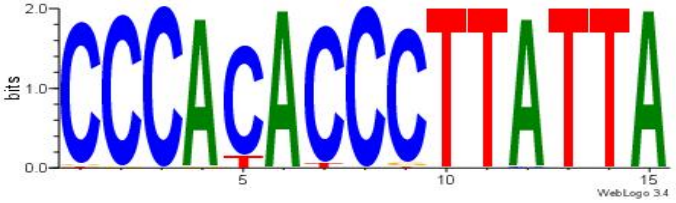

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

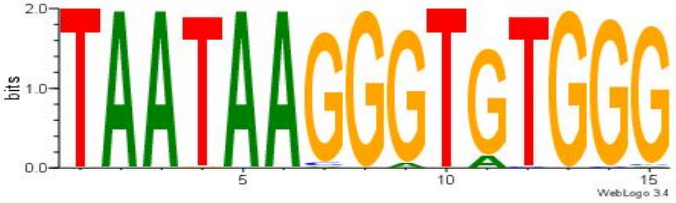

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0837432

Alignment:
AAGGGACATTKGAG
AATAAATATTT---

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

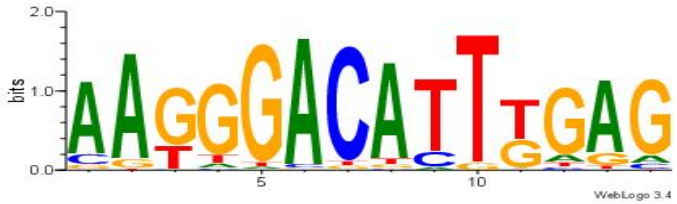

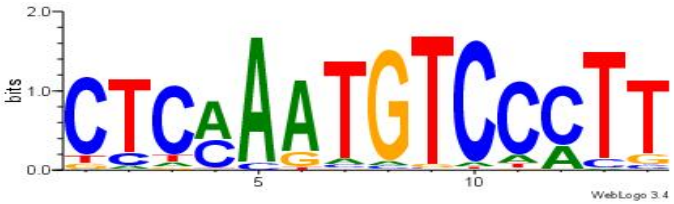

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0849005

Alignment:

```
CAAGGGTATAYGAGTAGCTG
--------AATAAATATTT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

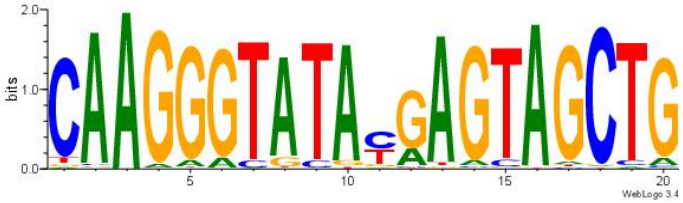

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

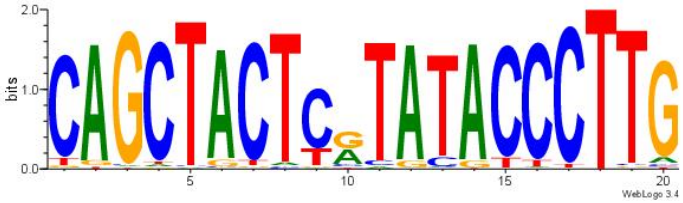

Dataset #: 1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0850872

Alignment:

```
TACCTGAGACTGGGTAATTT
--------AATAAATATTT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

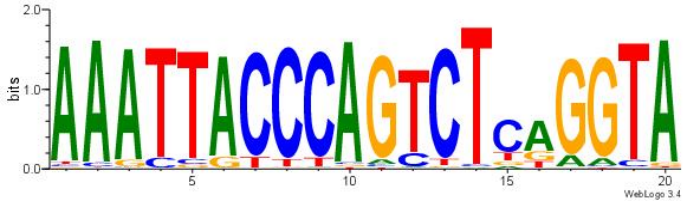

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

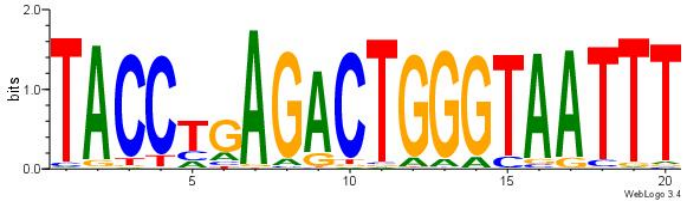

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0858524

Alignment:
CAAAGGCATAAGAATGAT
------AATAAATATTT-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

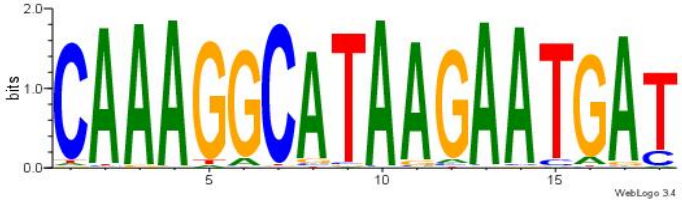

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

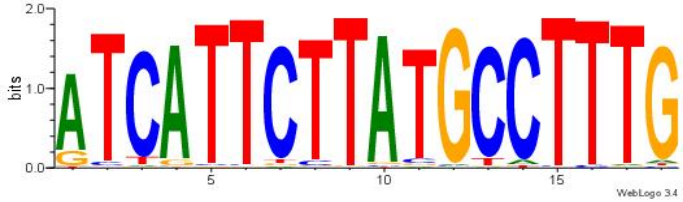

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0868132

Alignment:
KKCACCTTGATCTTGGACTT
-AAATATTTATT--------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

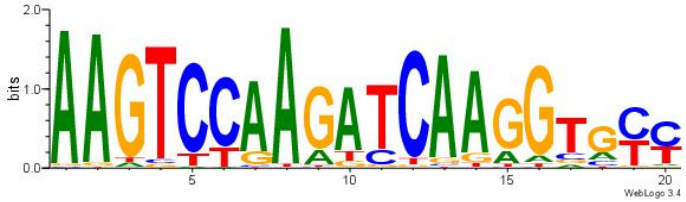

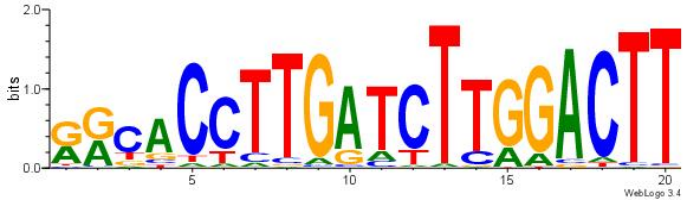

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0869092

Alignment:

```
ATGGACAYTTRGGTTGHTTC
--AAATATTTATT-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

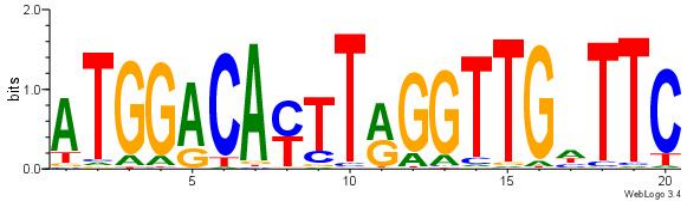

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

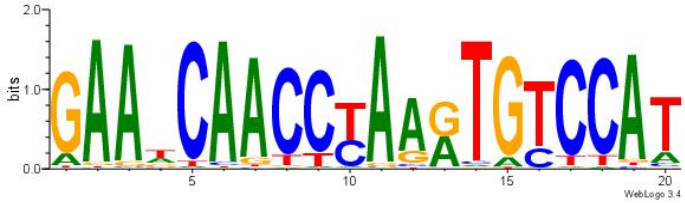

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0874022

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--AAATATTTATT-------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

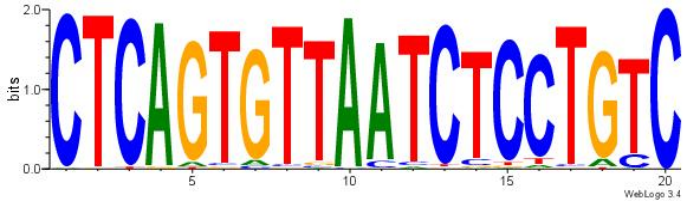

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

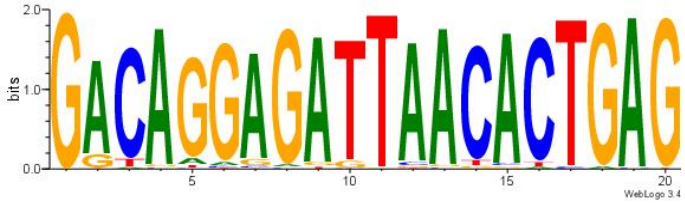

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0880438

Alignment:
ATTCAASATGAGATTTGGG
AATAAATATTT--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

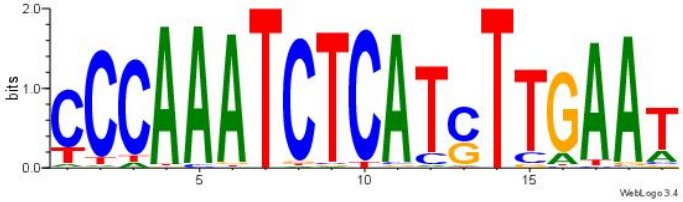

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

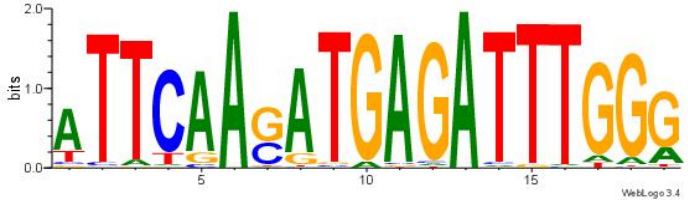

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 11
Similarity score: 0.0880556

Alignment:
TCCTATGAGAATCTAATG
------AAATATTTATT-

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

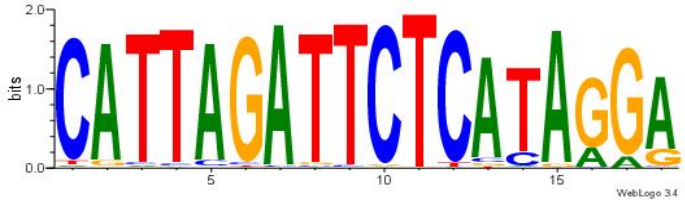

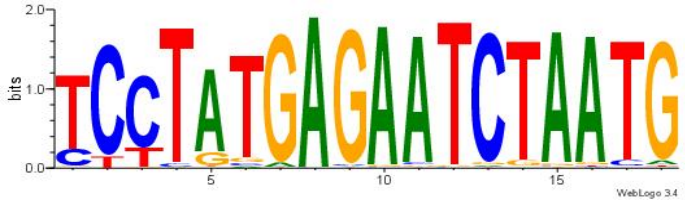

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0881102

Alignment:

```
CACCAGGAGATTATATCCCR
AATAAATATTT---------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

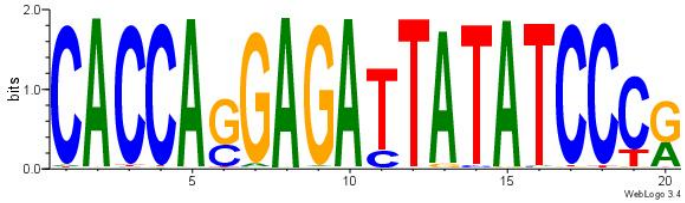

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

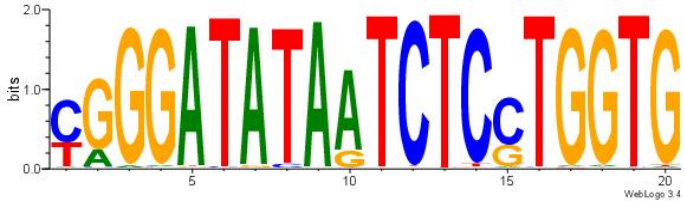

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0884074

Alignment:

```
GCACATGTAYCCYAGAACTT
AAATATTTATT---------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

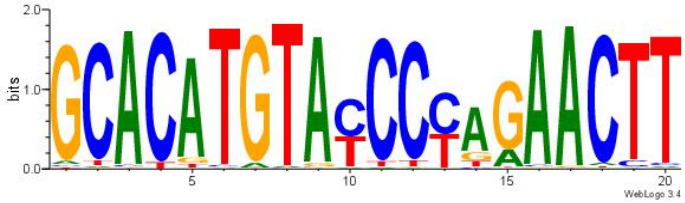

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

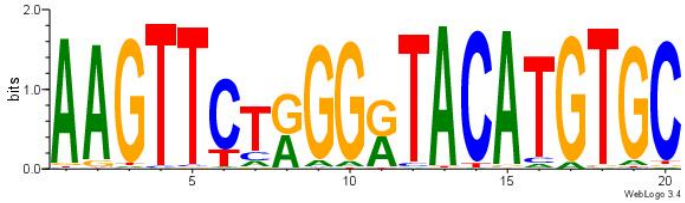

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0885384

Alignment:
ACACACAYACACACACACA
--------AAATATTTATT

Original motif Consensus sequence: ACACACAYACACACACACA

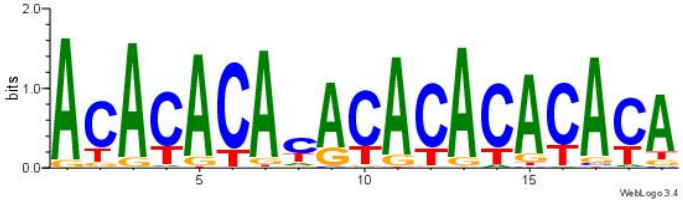

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

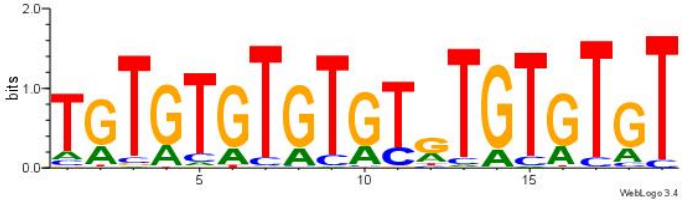

Dataset #: 1
Motif ID: 54
Motif name: Motif 54
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0885514

Alignment:
TTTCTTTTCCTT
AAATATTTATT-

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

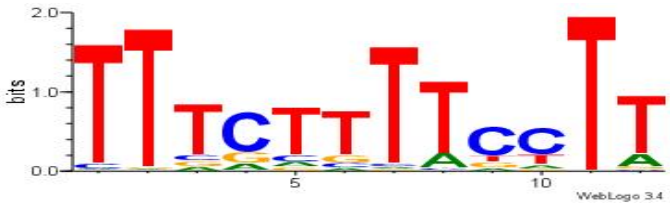

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0888175

Alignment:

```
AATTAAAAGACACAGACTG
AATAAATATTT--------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

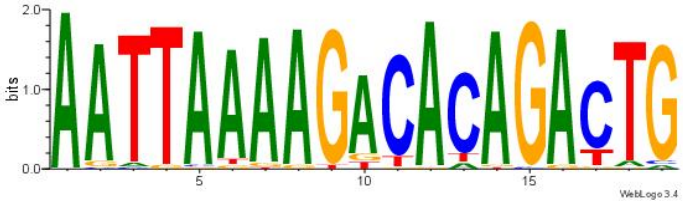

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

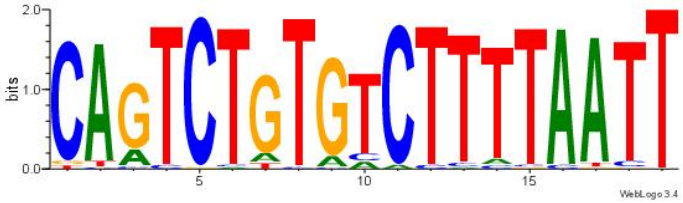

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0890699

Alignment:

```
GTTATTAATTGGCCTAATTT
--AAATATTTATT-------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

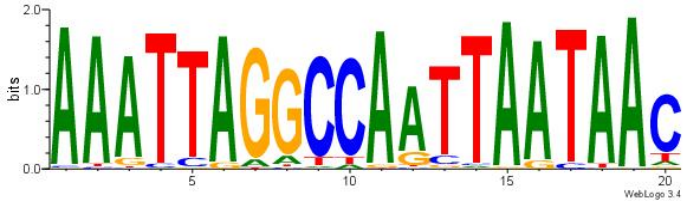

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0891787

Alignment:
AGTTCTTAAAGATGGT
----AATAAATATTT-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

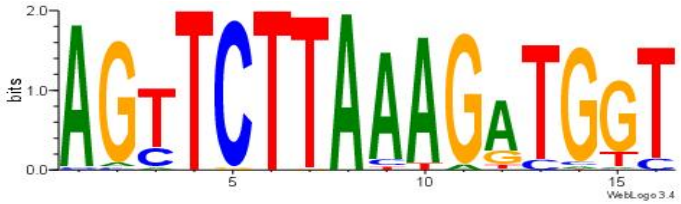

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

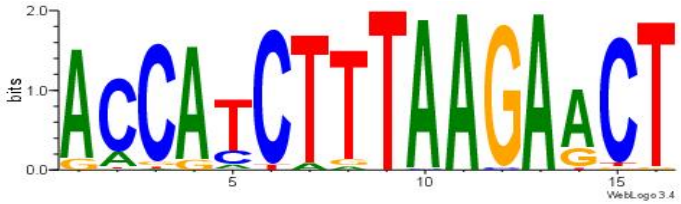

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0892584

Alignment:
AGTGAGAACATRYRRTRTTT
---------AATAAATATTT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

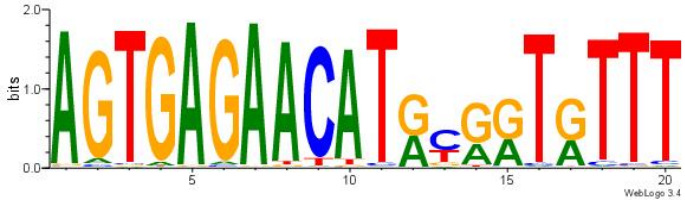

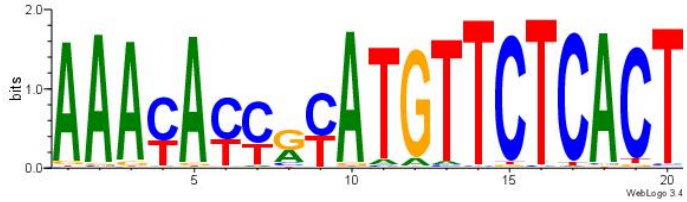

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897296

Alignment:

```
AAYRGACTAATACA
-AAATATTTATT--
```

Original motif Consensus sequence: AAYRGACTAATACA

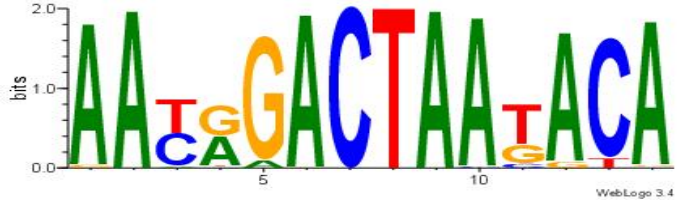

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

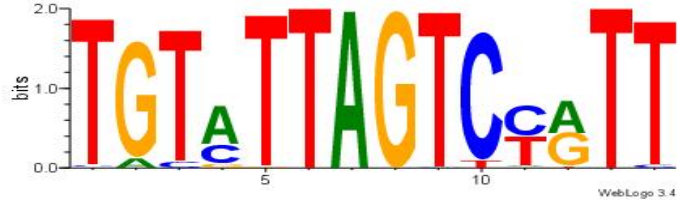

Dataset #: 1 Motif ID: 134 Motif name: Motif 134

Original motif Consensus sequence: CAAACTGCA

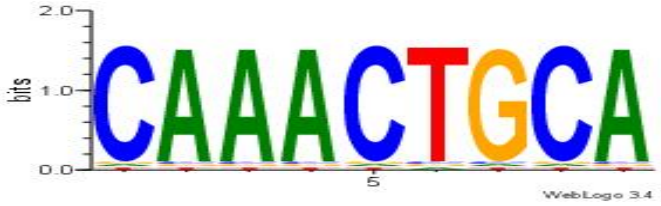

Reverse complement motif Consensus sequence: TGCAGTTTG

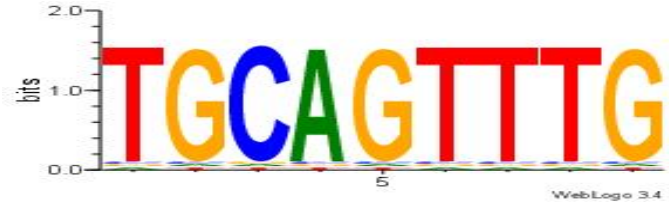

Best Matches for Significant Motif ID 134 (Highest to Lowest)

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0

Alignment:

```
CAAACTGCAAG
CAAACTGCA--
```

Original motif Consensus sequence: CAAACTGCAAG

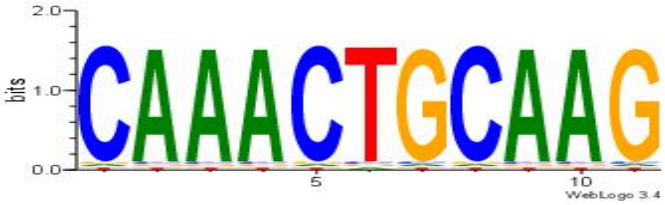

Reverse complement motif Consensus sequence: CTTGCAGTTTG

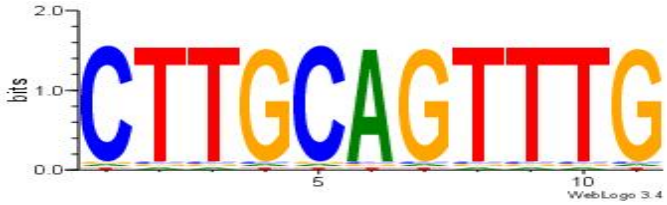

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0499634

Alignment:

```
AGTGTTTCCAAMCTGCT
--------CAAACTGCA
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

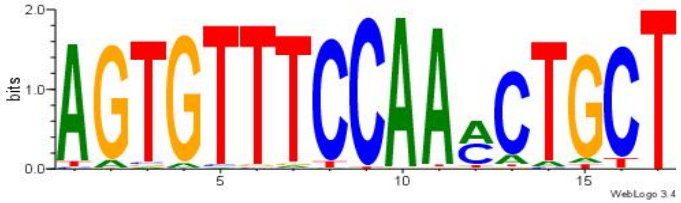

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

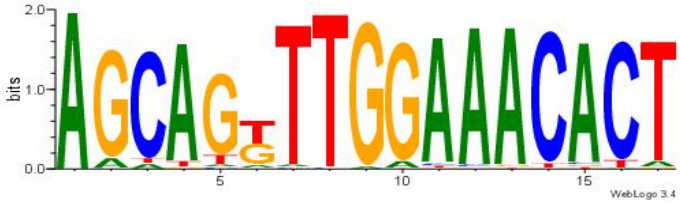

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 9
Similarity score: 0.050505

Alignment:
TTGAGGAGGCAGTCTG
-------TGCAGTTTG

Original motif Consensus sequence: CAGACTGCCTCCTCAA

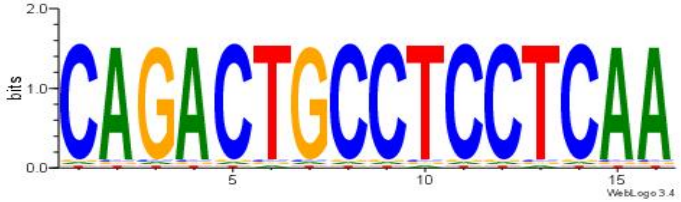

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

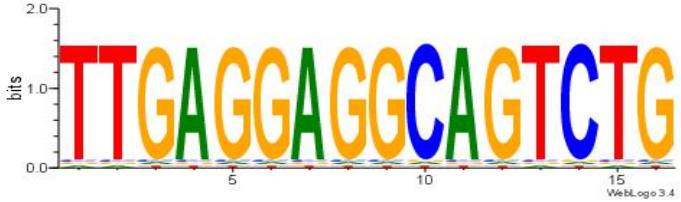

Dataset #: 1
Motif ID: 71
Motif name: Motif 71
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.050505

Alignment:
CAAAGTGCT
CAAACTGCA

Original motif Consensus sequence: AGCACTTTG

Reverse complement motif Consensus sequence: CAAAGTGCT

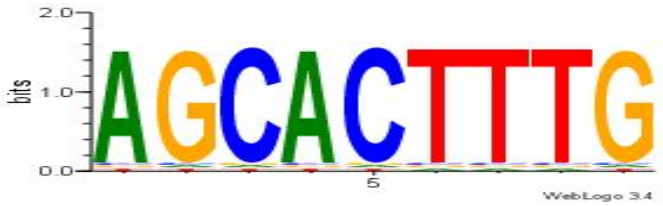

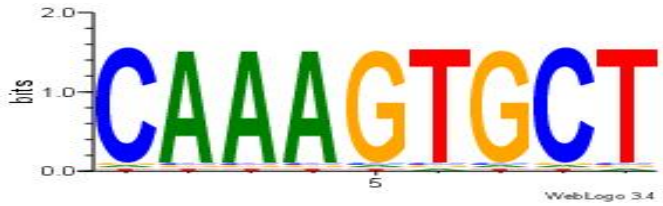

Dataset #:	1
Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.050505

Alignment:

```
AGCAGTCTGAG
--TGCAGTTTG
```

Original motif Consensus sequence: AGCAGTCTGAG

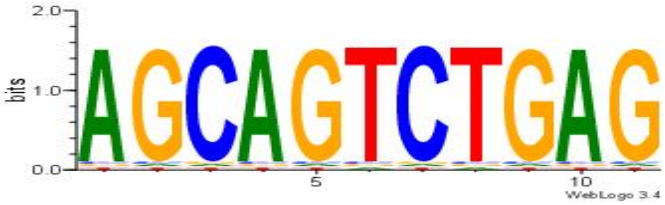

Reverse complement motif Consensus sequence: CTCAGACTGCT

Dataset #:	1
Motif ID:	234

Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0521614

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-----TGCAGTTTG------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

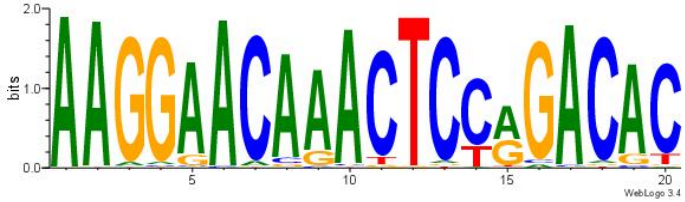

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

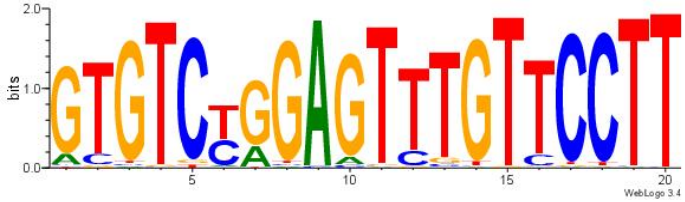

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0606198

Alignment:
GAAACTGCTTTGTGATGTGT
CAAACTGCA----------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

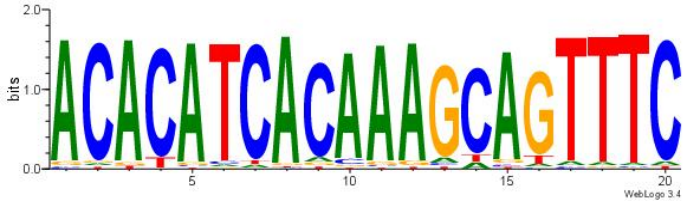

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

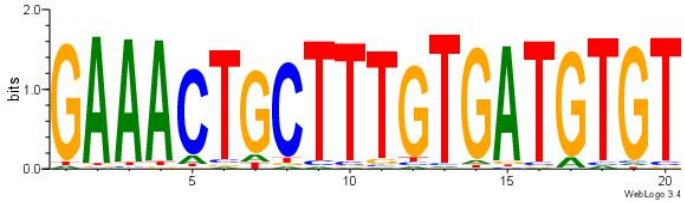

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0634619

Alignment:
GGGCTCCCACAGTGCAGCGG
-------CAAACTGCA----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

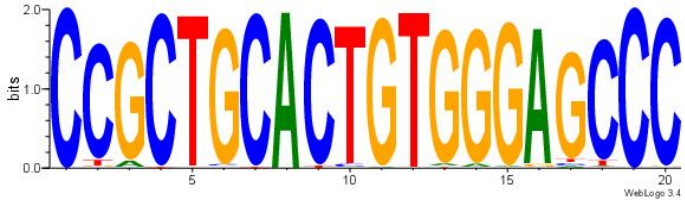

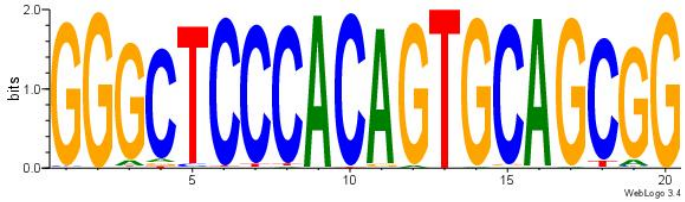

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0652896

Alignment:

```
GCTGCARTCTCGGCACTTT
--TGCAGTTTG--------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

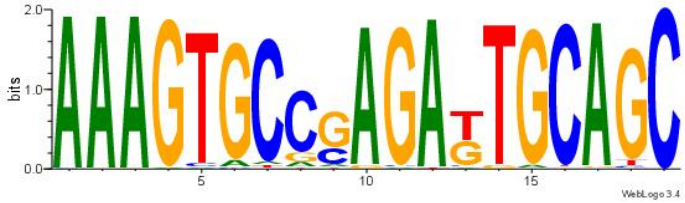

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

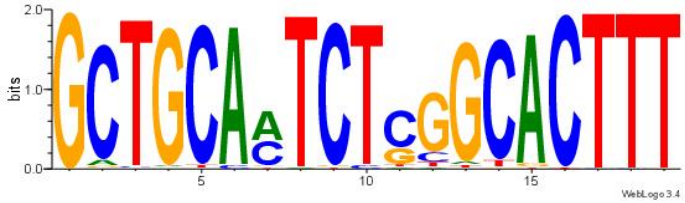

Dataset #:	1

Motif ID:	297
Motif name:	Motif 297
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0663554

Alignment:

```
ACCAATCAGCA
--CAAACTGCA
```

Original motif Consensus sequence: ACCAATCAGCA

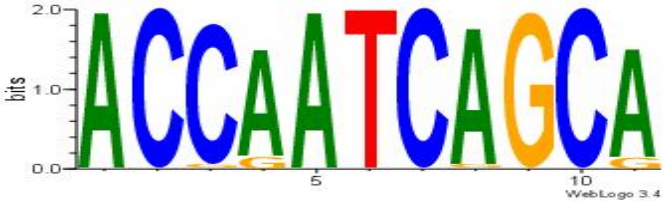

Reverse complement motif Consensus sequence: TGCTGATTGGT

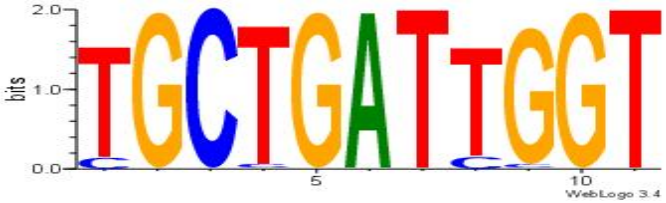

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0728622

Alignment:
GAGSTTGCAGTGAGC
-----TGCAGTTTG-

Original motif Consensus sequence: GCTCACTGCAASCTC

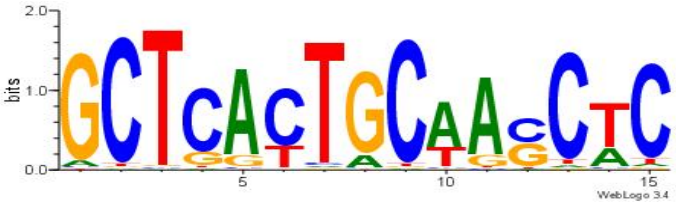

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

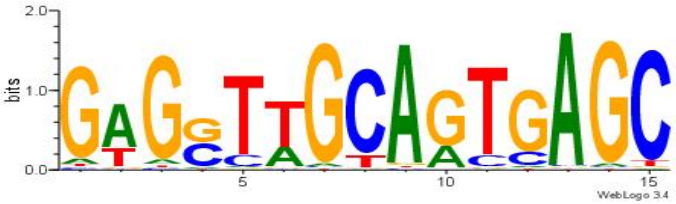

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0754152

Alignment:
CAGGTGGTKTTTGGTTACAT
----TGCAGTTTG-------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

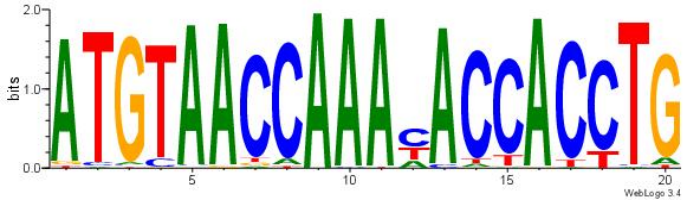

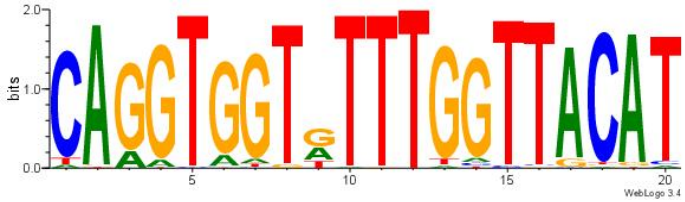

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.076376

Alignment:

```
TGGAGGTTSTAG
TGCAGTTTG---
```

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

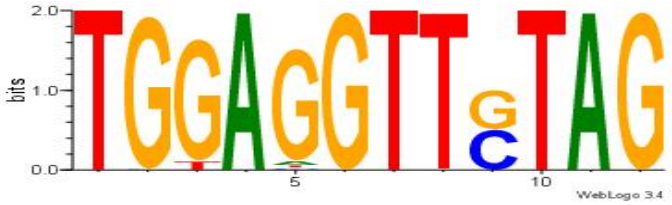

Dataset #:	1
Motif ID:	149

Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0769019

Alignment:

```
ACTCAGCCCRCCTGCACCC
-------CAAACTGCA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

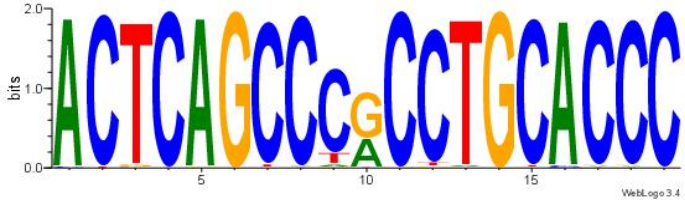

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

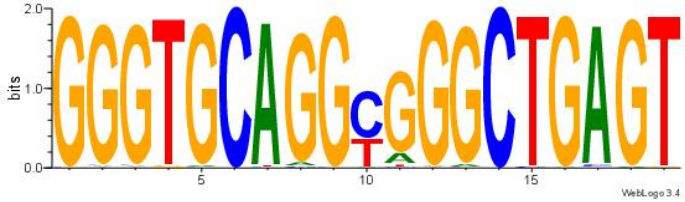

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0796935

Alignment:
AAGCTCGAACTGGGTGGAGC
-----CAAACTGCA------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

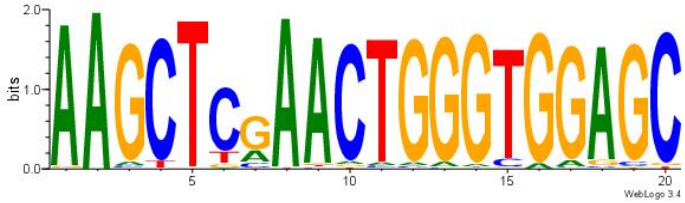

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

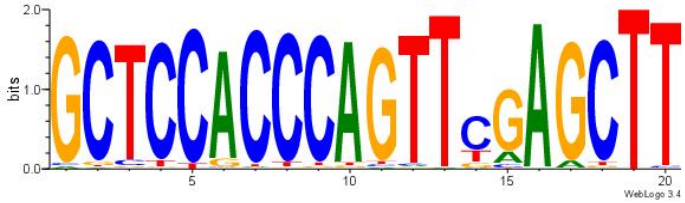

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0797275

Alignment:
TTGTCCCACTGGAAGGTCTT
----CAAACTGCA-------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

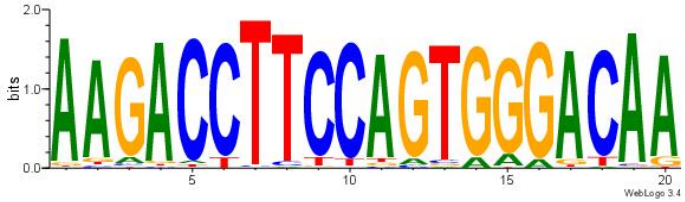

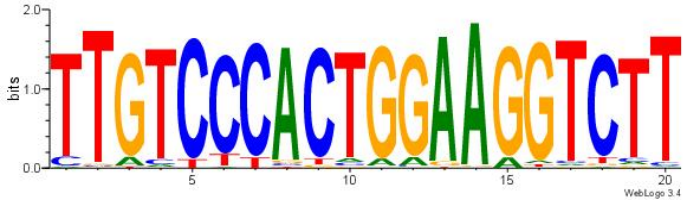

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0798749

Alignment:

```
TAAAAGACTACAWATTGGGT
---CAAACTGCA--------
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

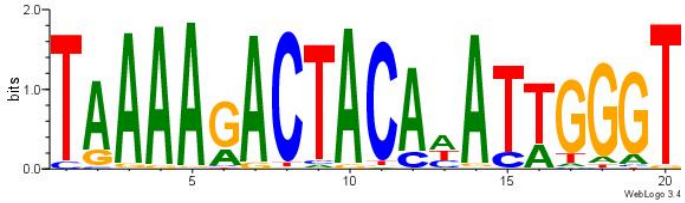

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

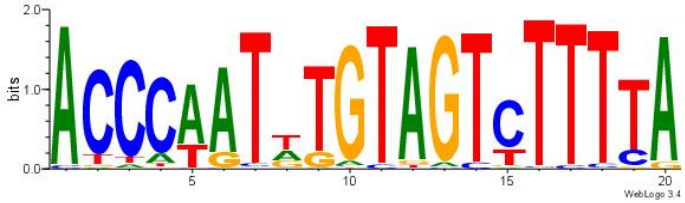

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0801106

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---CAAACTGCA--------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

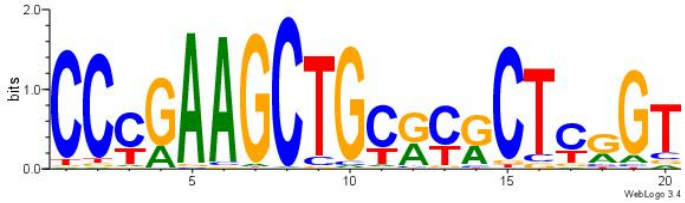

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

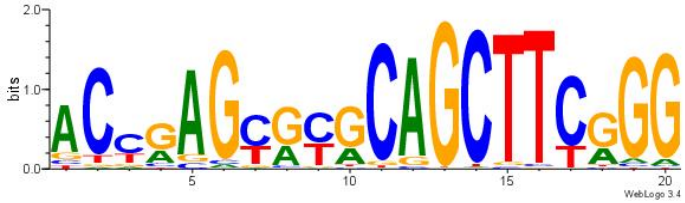

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9

Similarity score: 0.0808962

Alignment:
ATGTGGAGGTGGAAGACAGT
---TGCAGTTTG--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

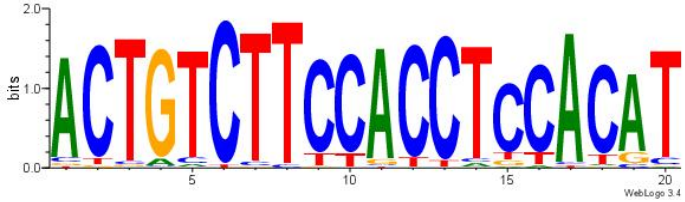

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

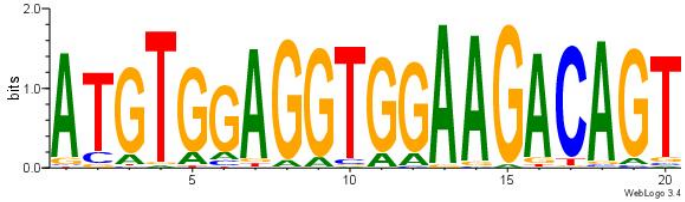

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0816013

Alignment:
TTGGAGGTTCTAGCAGGG
-TGCAGTTTG--------

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

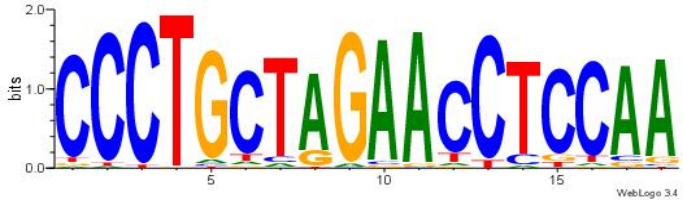

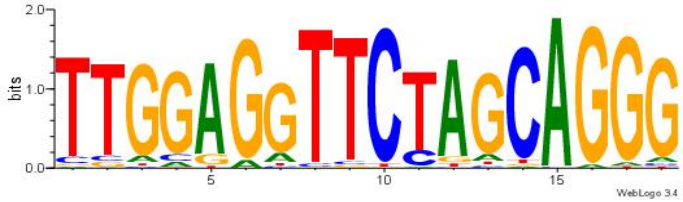

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0821665

Alignment:

```
GCCAATTTCTCCCATTTGGA
---------TGCAGTTTG--
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

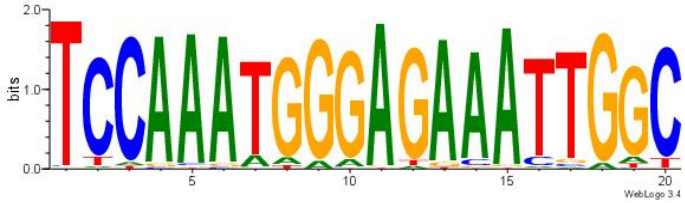

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

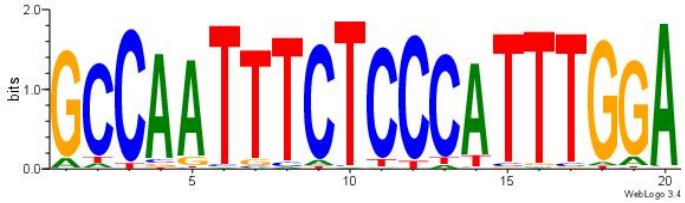

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0840288

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-------CAAACTGCA----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

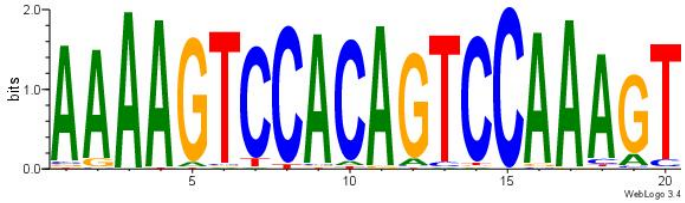

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

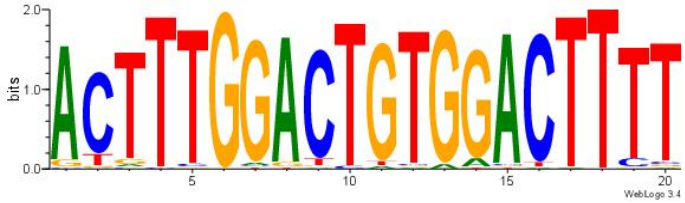

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.084656

Alignment:
MGGAAACTGAGGC
--CAAACTGCA--

Original motif Consensus sequence: GCCTCAGTTTCCY

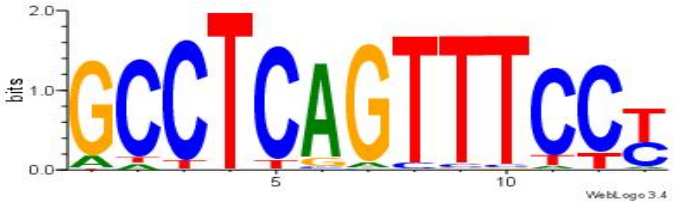

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

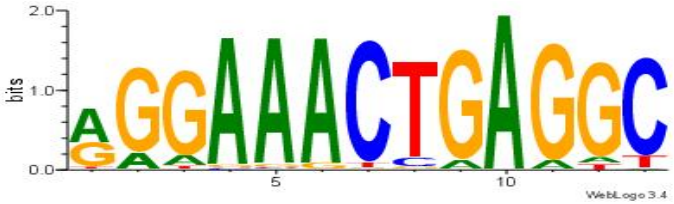

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 9
Similarity score: 0.0849644

Alignment:
GCTGGAGTGCAGTGGCRYGA
----TGCAGTTTG-------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

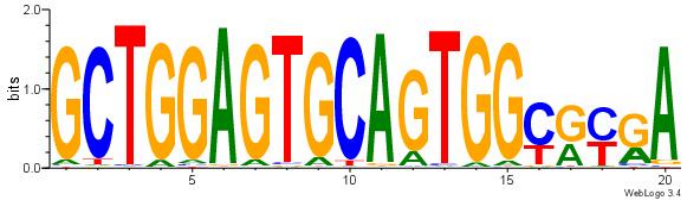

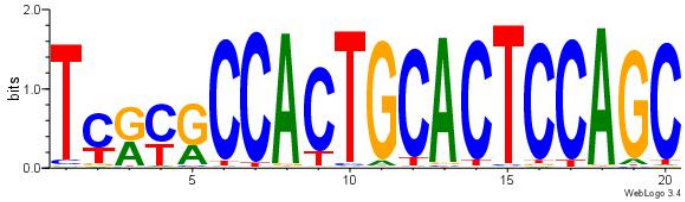

Dataset #:	1
Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0852677

Alignment:

```
CCAAACCATATCA
-CAAACTGCA---
```

Original motif Consensus sequence: CCAAACCATATCA

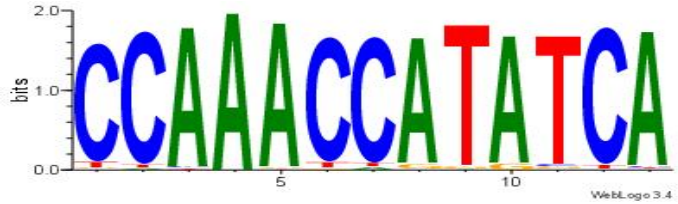

Reverse complement motif Consensus sequence: TGATATGGTTTGG

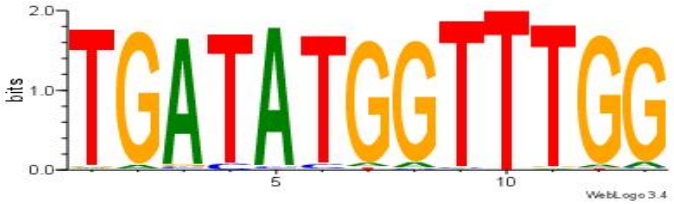

Dataset #:	1
Motif ID:	309

Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0854002

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-----TGCAGTTTG------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

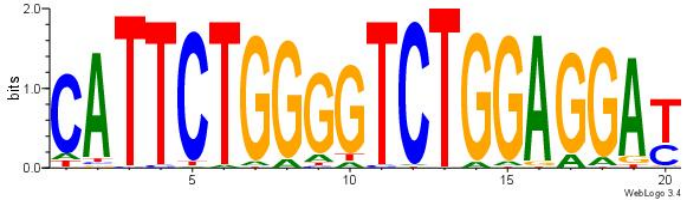

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

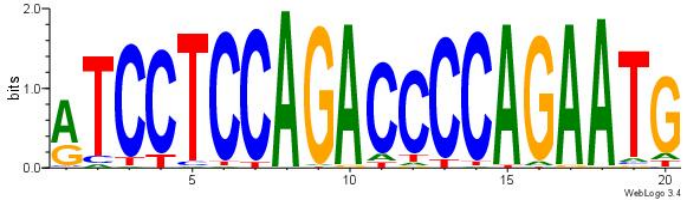

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0855738

Alignment:
AATGAKATCATGTCYTTTGC
----------TGCAGTTTG-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

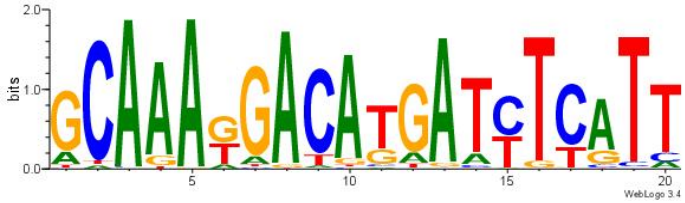

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

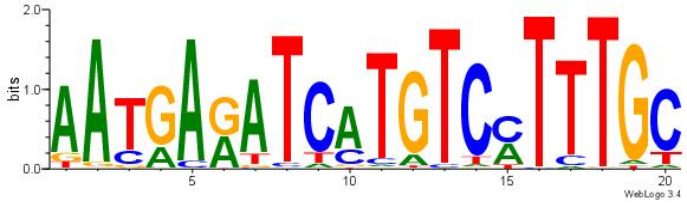

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0860832

Alignment:
CCCAAATCTCATSTTGAAT
--CAAACTGCA--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

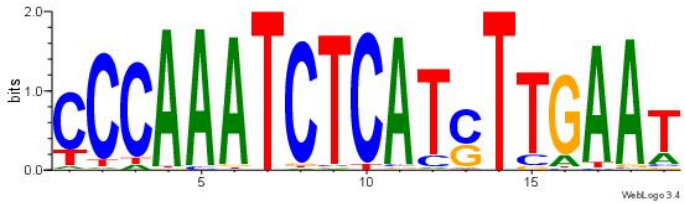

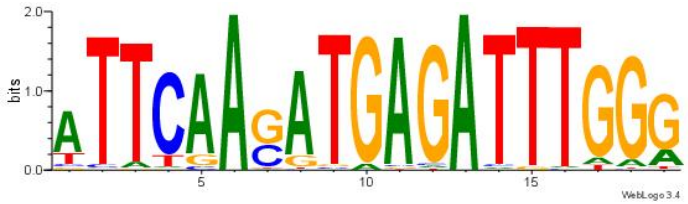

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0864847

Alignment:

```
GAAAAGCGCAGTATTMGGG
-CAAACTGCA---------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

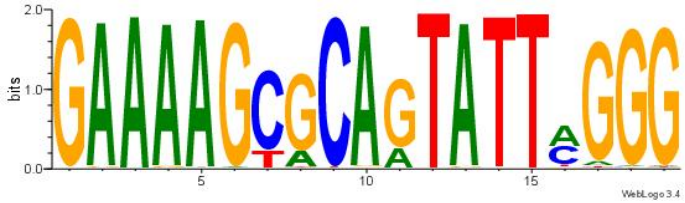

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

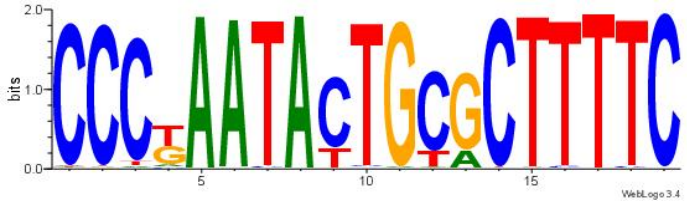

Dataset #:	1

Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0869291

Alignment:

```
TTCTGTTTCT
TGCAGTTTG-
```

Original motif Consensus sequence: AGAAACAGAA

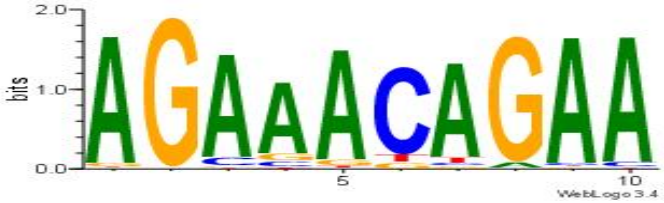

Reverse complement motif Consensus sequence: TTCTGTTTCT

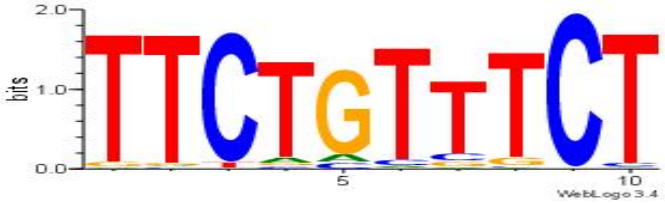

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0871531

Alignment:
CATGGCGGGCTGCAGGTC
-----CAAACTGCA----

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

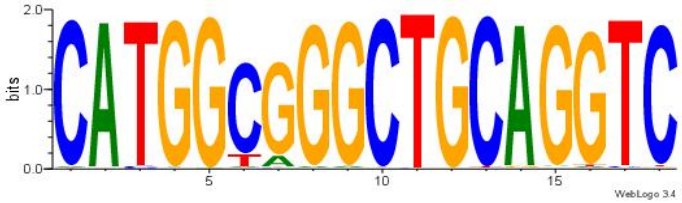

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

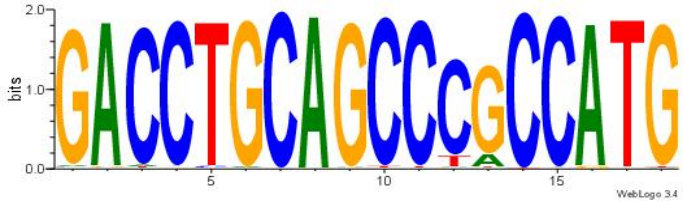

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0871671

Alignment:
AGTTGTAATTGGGAGACTT
---TGCAGTTTG-------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

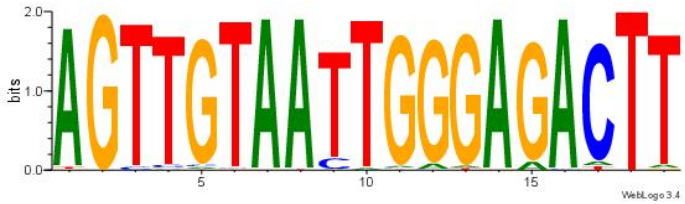

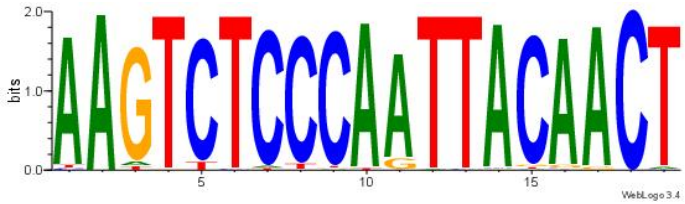

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0874377

Alignment:

```
CCCCGGGCAGTGAGGG
-----TGCAGTTTG--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

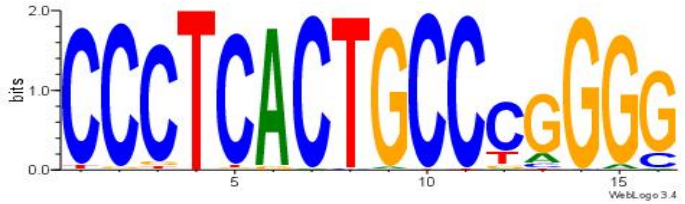

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

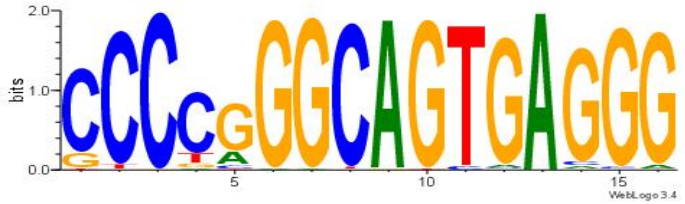

Dataset #:	1

Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.087488

Alignment:

```
GTTAACTGTAAAACAGCCT
-CAAACTGCA---------
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

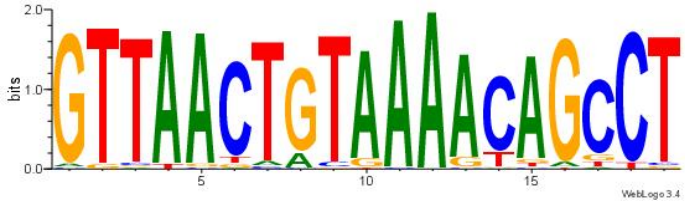

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

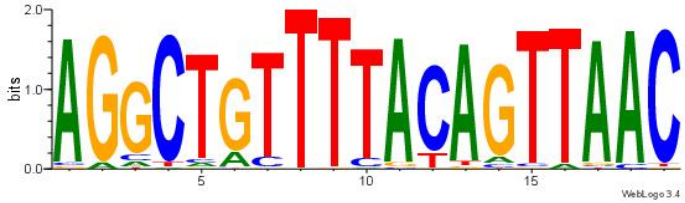

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9

Similarity score: 0.0882944

Alignment:
KACATTGATTTTGTATC
----TGCAGTTTG----

Original motif Consensus sequence: GATACAAAATCAATGTR

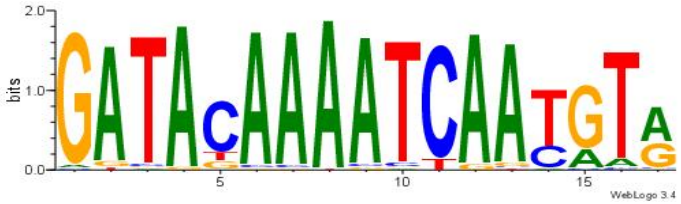

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

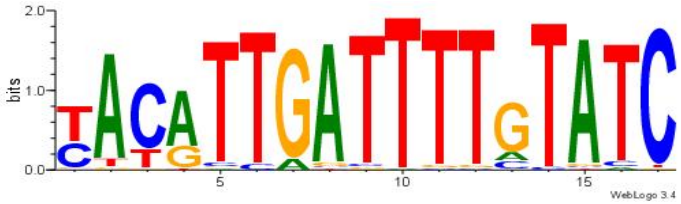

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 9
Similarity score: 0.0883035

Alignment:
AAAACCAGCAAGTTTTTAT
-CAAACTGCA---------

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

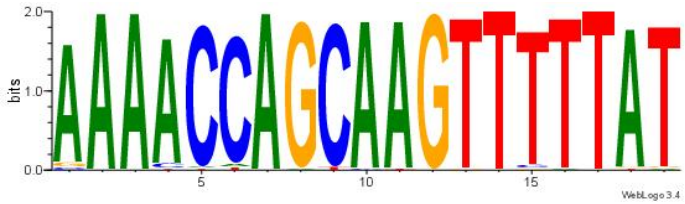

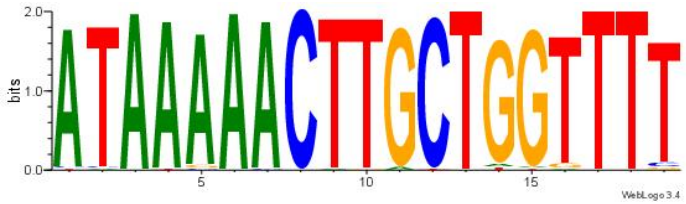

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0883422

Alignment:

```
ACATGCTACAACAT
-CAAACTGCA----
```

Original motif Consensus sequence: ACATGCTACAACAT

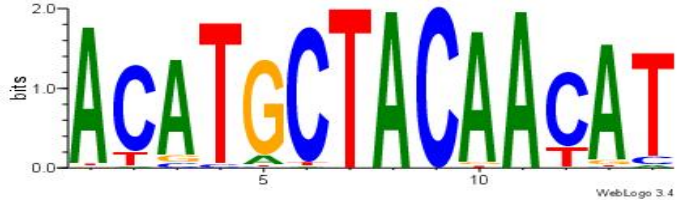

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

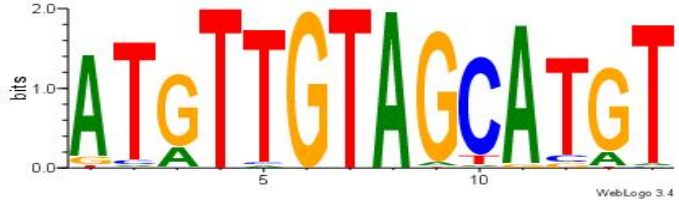

Dataset #:	1
Motif ID:	189

Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0883575

Alignment:

```
ATCCAGTCTATCATTG
-TGCAGTTTG------
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

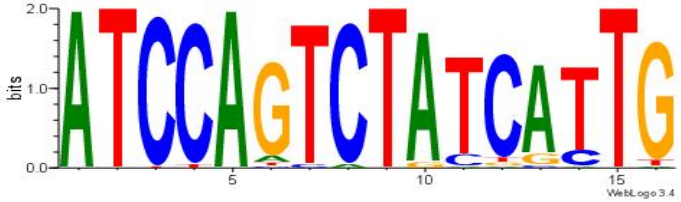

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0891322

Alignment:
CAAGCGCCAGCTCATGTC
CAAACTGCA---------

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

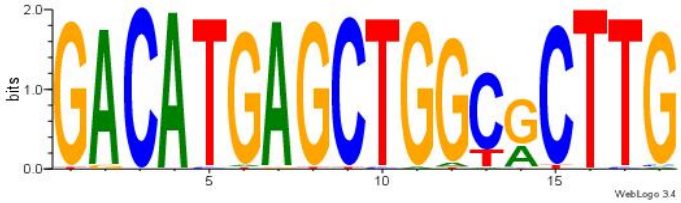

Reverse complement motif Consensus sequence:
CAAGCGCCAGCTCATGTC

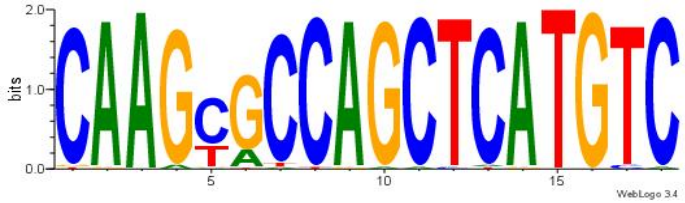

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.089698

Alignment:
AACCCTATTGTGAACTGYG
----------CAAACTGCA

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence:
CMCAGTTCACAATAGGGTT

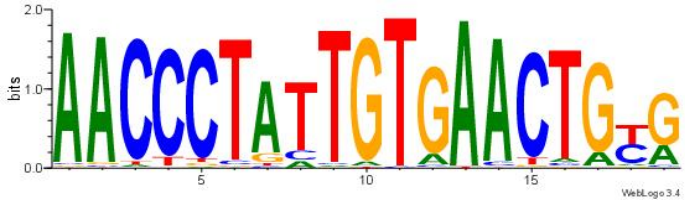

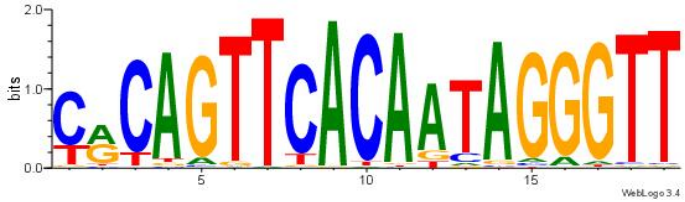

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 9
Similarity score: 0.0900325

Alignment:
CTCCAGKTMCATCCATGTTG
---------CAAACTGCA--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

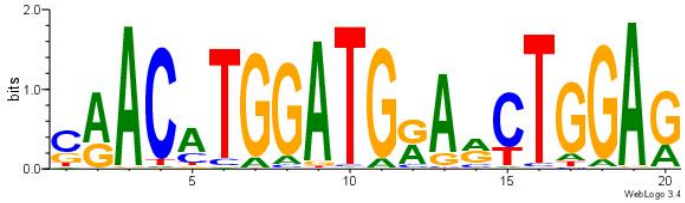

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

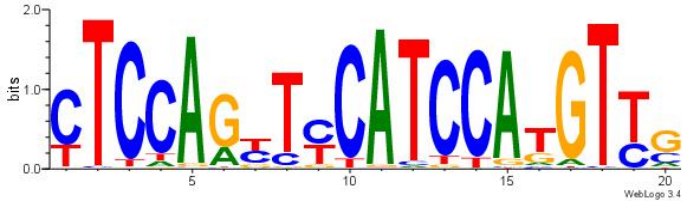

Dataset #: 1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0903524

Alignment:

```
AGGGATCTAGGTTGCR
-----TGCAGTTTG--
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

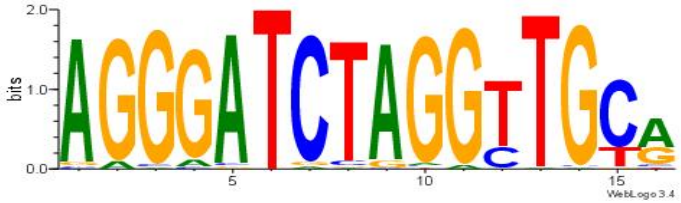

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

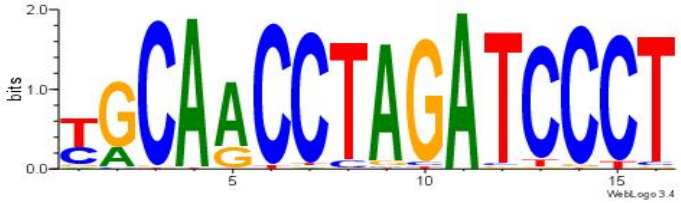

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9

Similarity score: 0.0904212

Alignment:
TGCCCAGTCTGGAAAGTG
----CAAACTGCA-----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

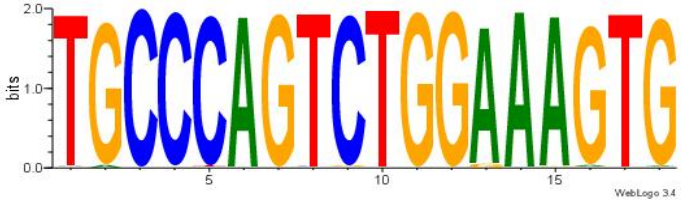

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

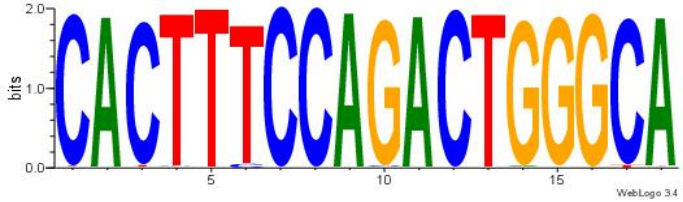

Dataset #:	1
Motif ID:	162
Motif name:	Motif 162
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0910595

Alignment:
ATGGACCTTG
-TGCAGTTTG

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

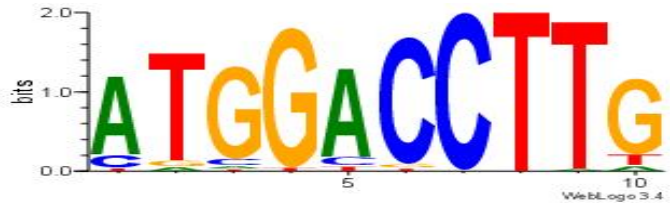

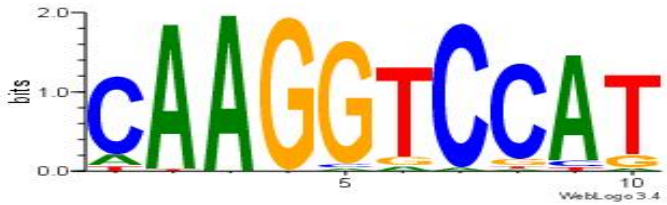

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0924325

Alignment:

```
GCCTCACTGCCRC
--CAAACTGCA--
```

Original motif Consensus sequence: GCCTCACTGCCRC

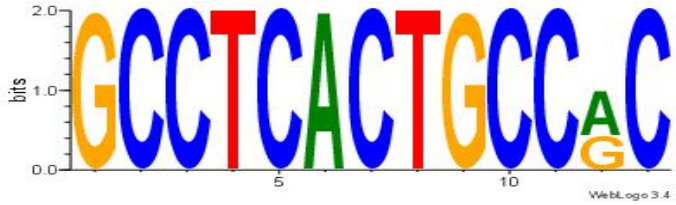

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

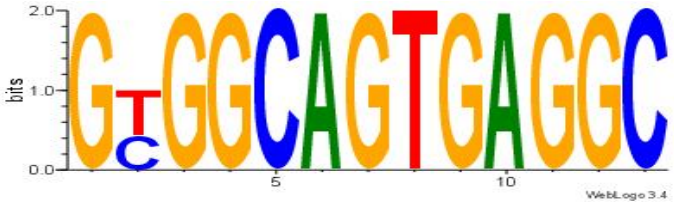

Dataset #:	1
Motif ID:	322

Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0927114

Alignment:

```
GCAWSTGCAAAGGCCCT
CAAACTGCA--------
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

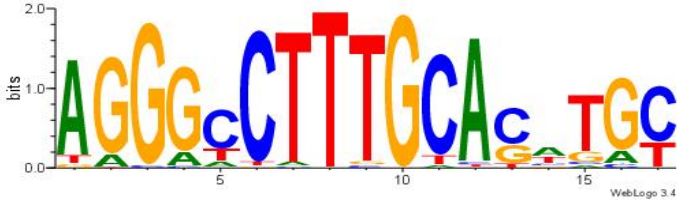

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

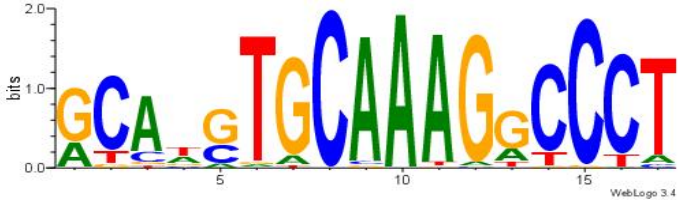

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0928457

Alignment:
TGCACTGCACCCAC
CAAACTGCA-----

Original motif Consensus sequence: TGCACTGCACCCAC

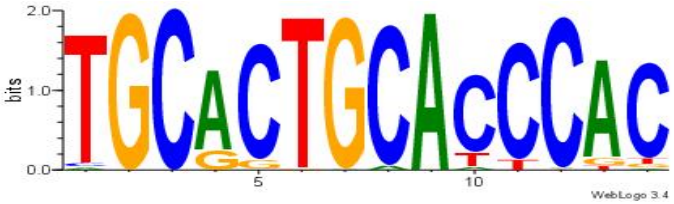

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

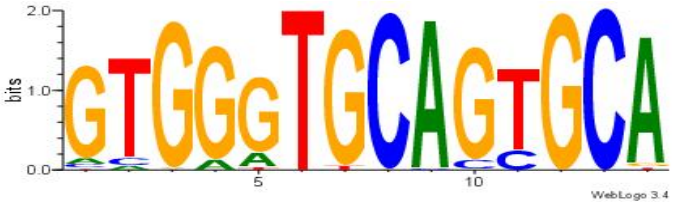

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0937238

Alignment:
GTCTGGMGTCTTGG
---TGCAGTTTG--

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

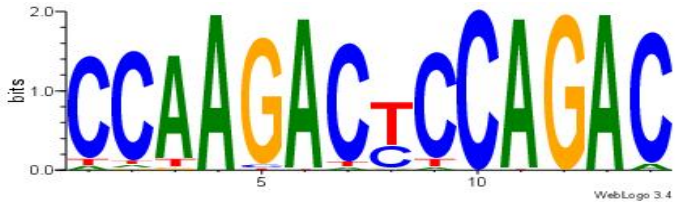

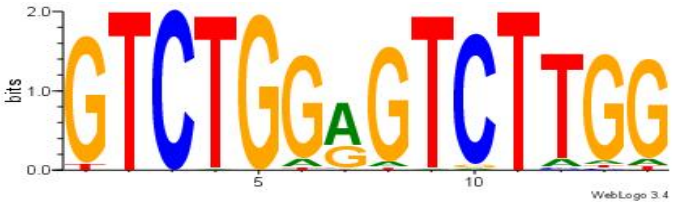

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0941819

Alignment:

```
AAAGCTGGAGCTATTATCTA
CAAACTGCA-----------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

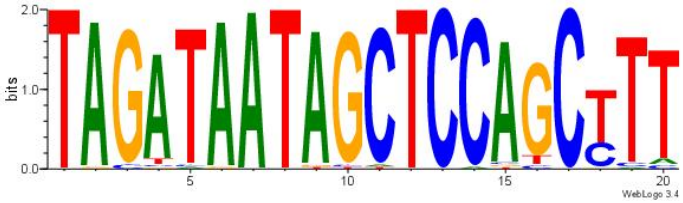

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

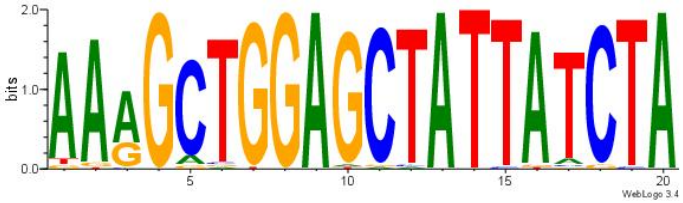

Dataset #:	1

Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0960152

Alignment:

```
GCTCCWGTGYGKCC
--TGCAGTTTG---
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

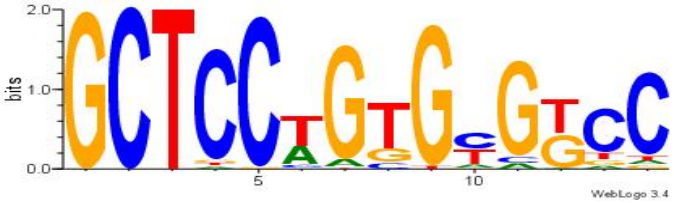

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1 Motif ID: 172 Motif name: Motif 172

Original motif Consensus sequence: AGAAACAGAA

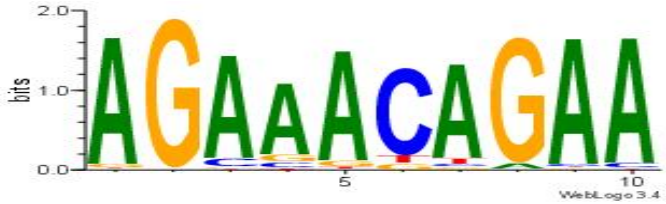

Reverse complement motif Consensus sequence: TTCTGTTTCT

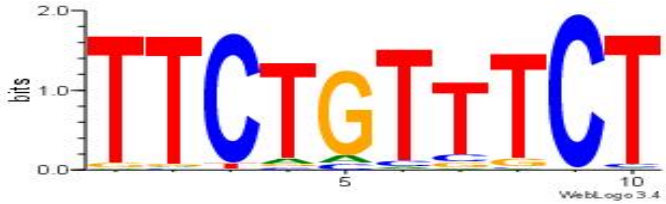

Best Matches for Significant Motif ID 172 (Highest to Lowest)

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0394673

Alignment:

```
CAGTCTGTGTCTTTTAATT
--TTCTGTTTCT-------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

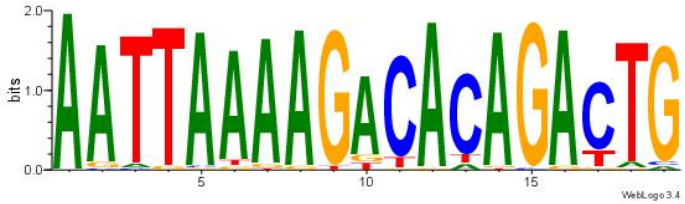

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

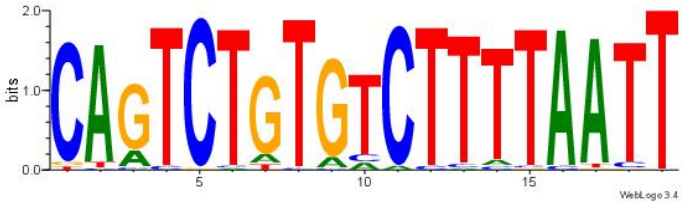

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0541669

Alignment:
GCCAGTCACAAAARGACAMA
---AGAAACAGAA-------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

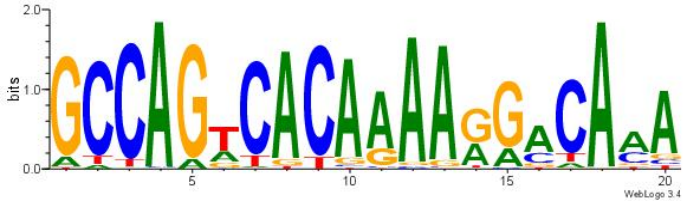

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

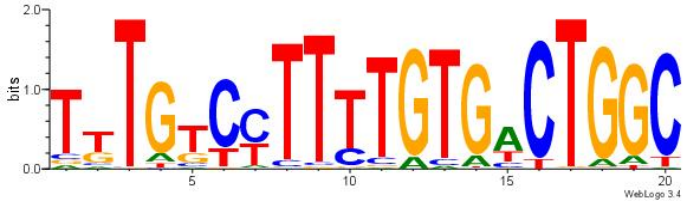

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0544219

Alignment:
GCACTCTGTMTCTAGCT
---TTCTGTTTCT----

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

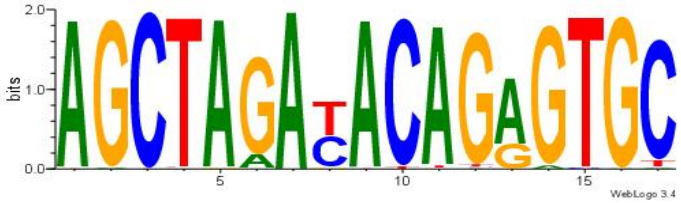

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

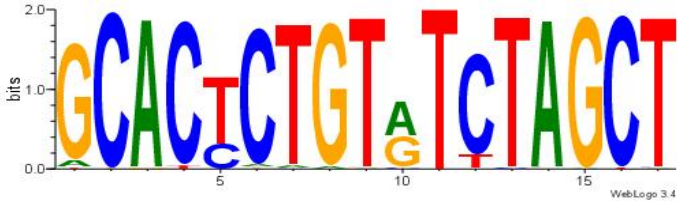

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0568571

Alignment:

```
AAGGAAAAGAAA
-AGAAACAGAA-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

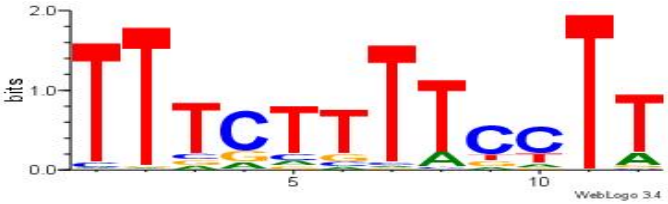

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0594764

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-TTCTGTTTCT---------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

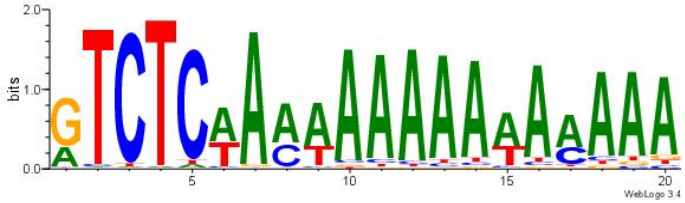

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

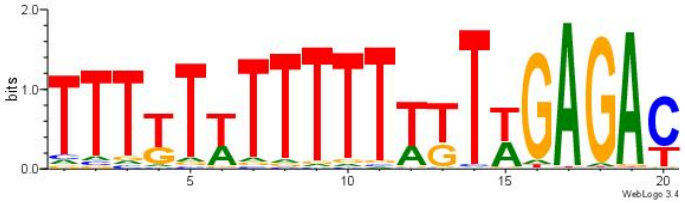

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 10
Similarity score: 0.064397

Alignment:
CTCAGGAATGGAAAACC
---AGAAACAGAA----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

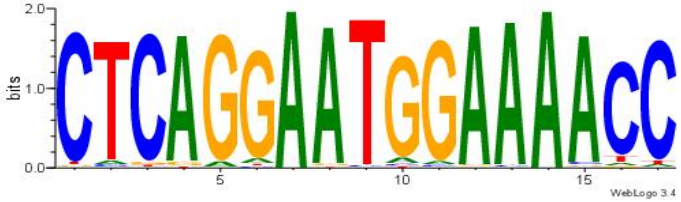

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

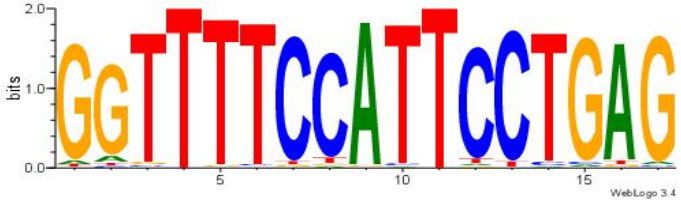

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0650845

Alignment:
GAGAGAGAGAGAGAGAGAGA
---AGAAACAGAA-------

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

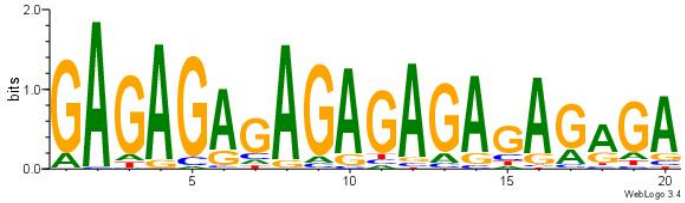

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

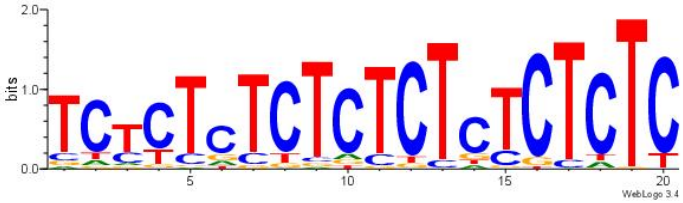

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0653012

Alignment:

```
AAGGAACAAACTCCRGACAC
-AGAAACAGAA---------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

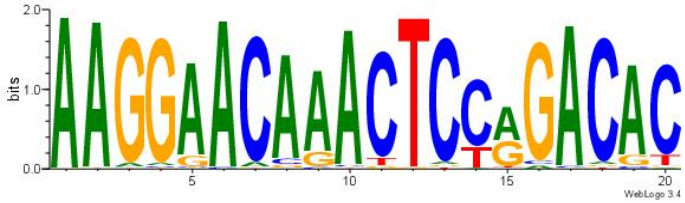

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

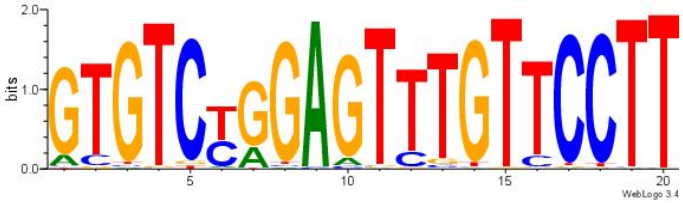

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0665133

Alignment:

```
CGGCGCTGMGCTCGATTTCT
----------TTCTGTTTCT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

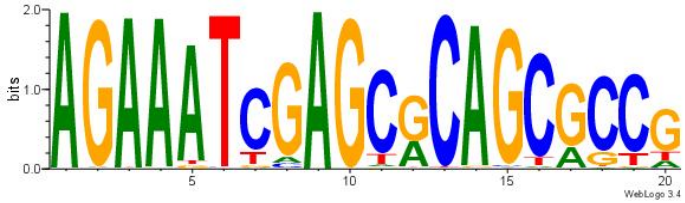

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

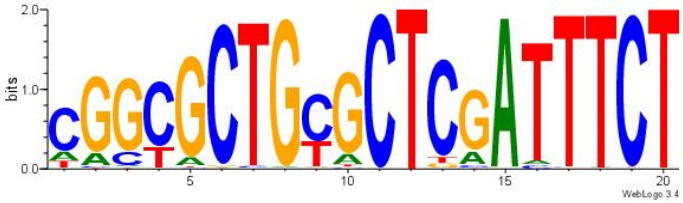

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 10
Similarity score: 0.0677802

Alignment:
TTTCTTTGACTRG
-TTCTGTTTCT--

Original motif Consensus sequence: CKAGTCAAAGAAA

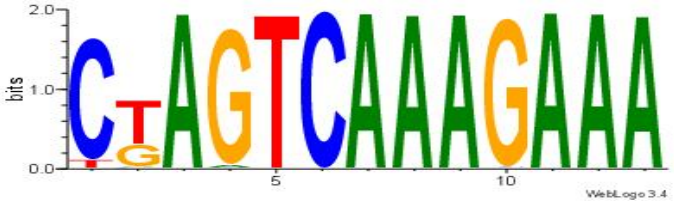

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

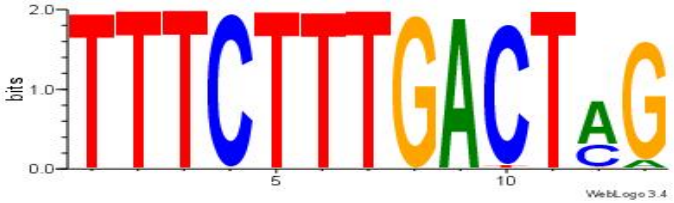

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0683983

Alignment:
CACCAGACTCAGGAGCCCAG
------AGAAACAGAA----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

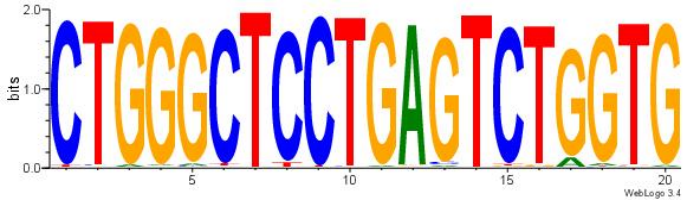

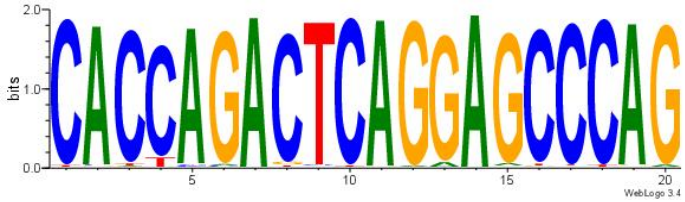

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0688793

Alignment:

```
MGGAAACTGAGGC
--AGAAACAGAA-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

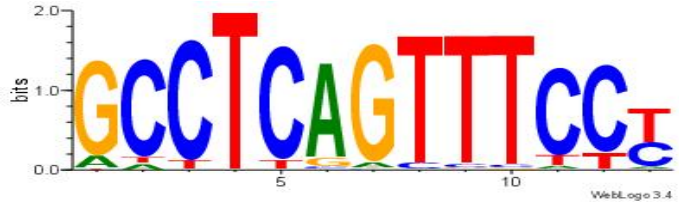

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

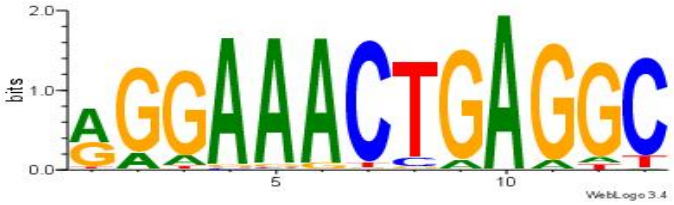

Dataset #:	1
Motif ID:	266

Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0700234

Alignment:

```
GCAGCAGCAGCA
--AGAAACAGAA
```

Original motif Consensus sequence: GCAGCAGCAGCA

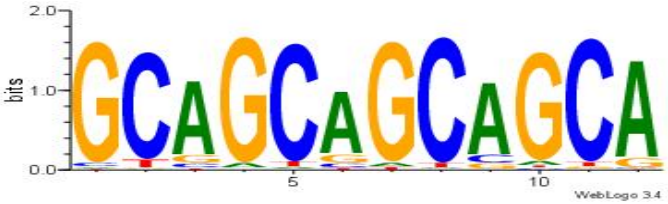

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

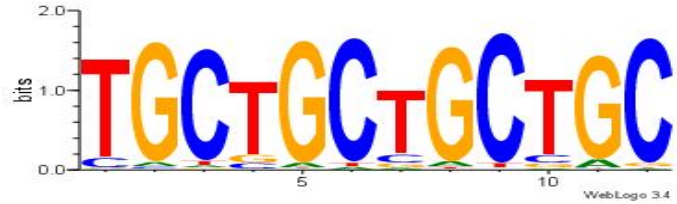

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0707516

Alignment:
AAAATCACAAGCATTCCTAT
AGAAACAGAA----------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

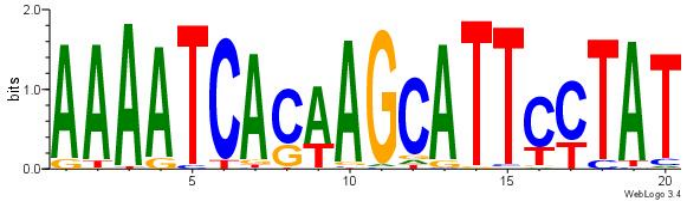

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

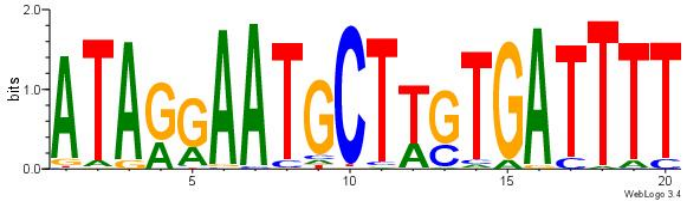

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0718671

Alignment:
GTAGACKGGAGCTGTTCCT
---------TTCTGTTTCT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

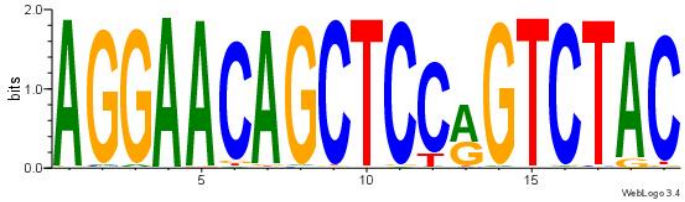

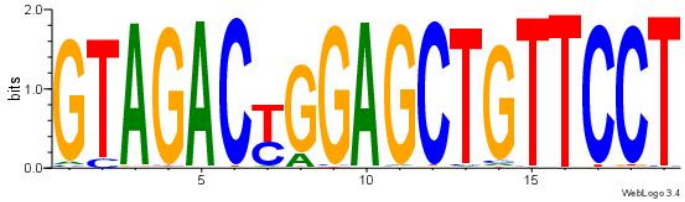

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0722368

Alignment:

```
TAATTTTATGTGTCAACTTG
-----TTCTGTTTCT-----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

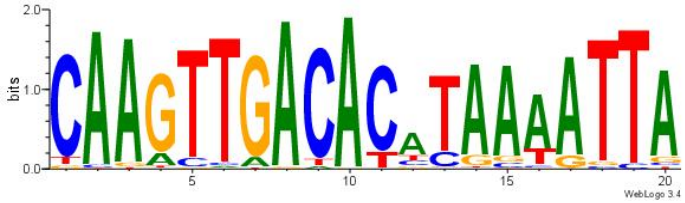

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

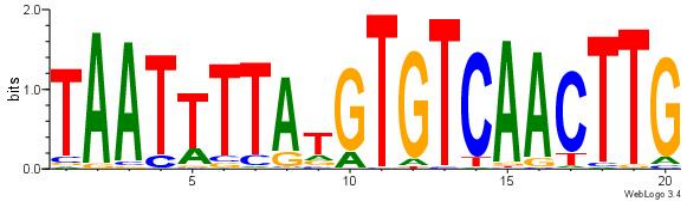

Dataset #: 1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0738883

Alignment:

```
ATAAAAACTTGCTGGTTTT
---------TTCTGTTTCT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

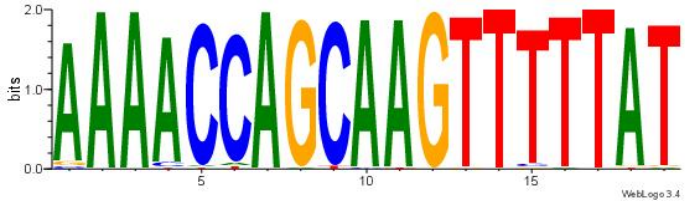

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

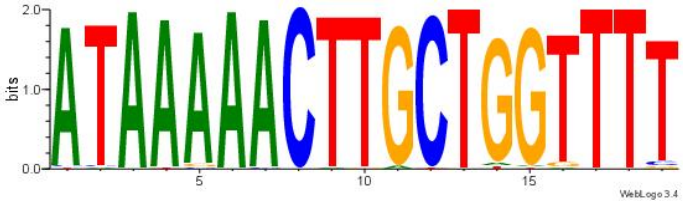

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0741615

Alignment:
MGTCTMKCTCTGTKGCCCAG
-------TTCTGTTTCT---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

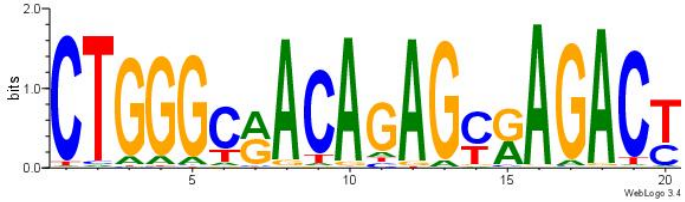

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

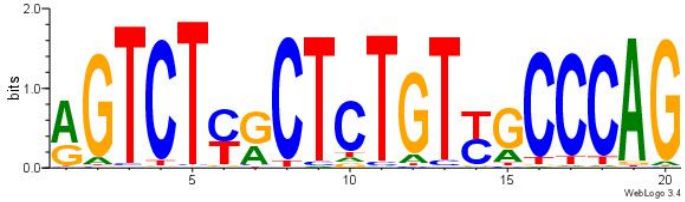

Dataset #: 1
Motif ID: 363
Motif name: Motif 363
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0749931

Alignment:
WACAATCAGACCTTG
-AGAAACAGAA----

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

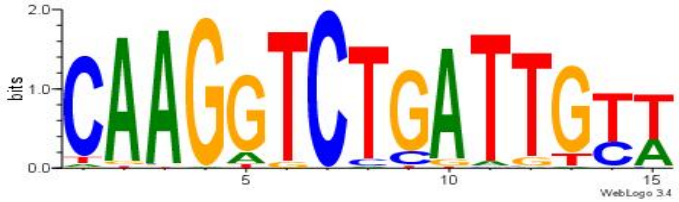

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0789147

Alignment:

```
AGTGAGAACATRYRRTRTTT
TTCTGTTTCT----------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

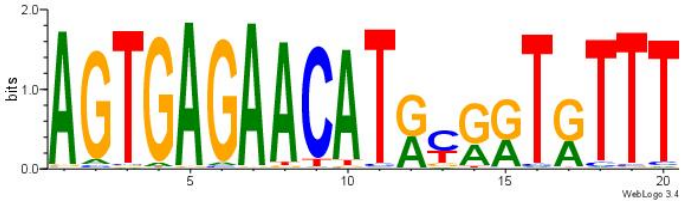

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

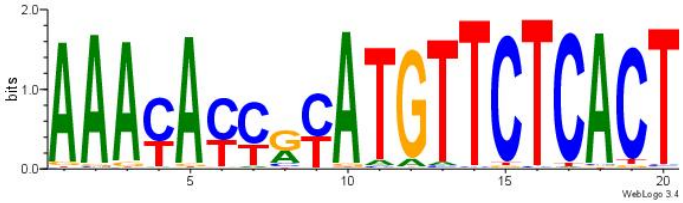

Dataset #: 1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0797401

Alignment:

```
TGTGTGTGTGTKTGTGTGT
---------TTCTGTTTCT
```

Original motif Consensus sequence: ACACACAYACACACACACA

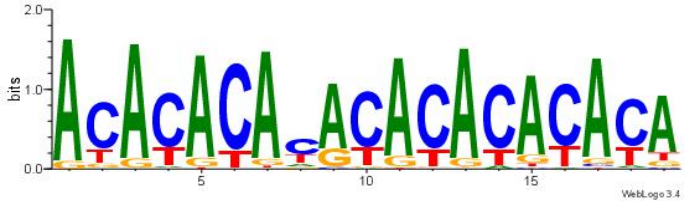

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

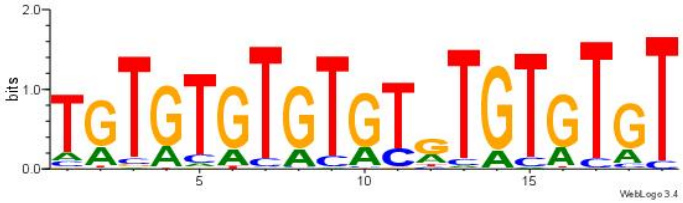

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0807093

Alignment:
ATGGACAYTTRGGTTGHTTC
--TTCTGTTTCT--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

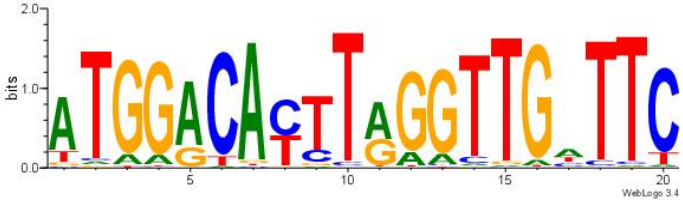

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

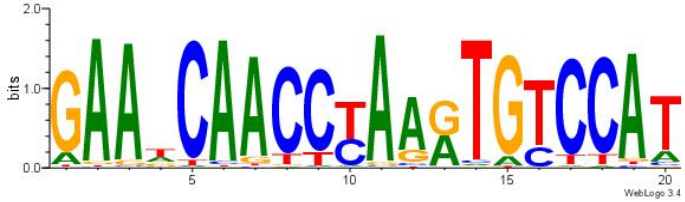

Dataset #: 1
Motif ID: 117
Motif name: Motif 117
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0809472

Alignment:
AACAACAACAACAAMAA
------AGAAACAGAA-

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

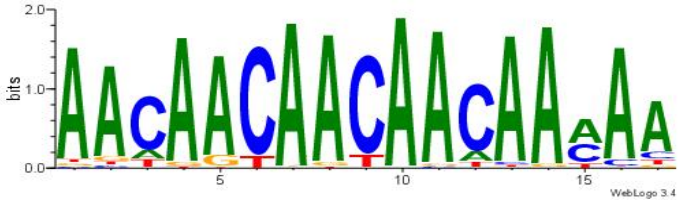

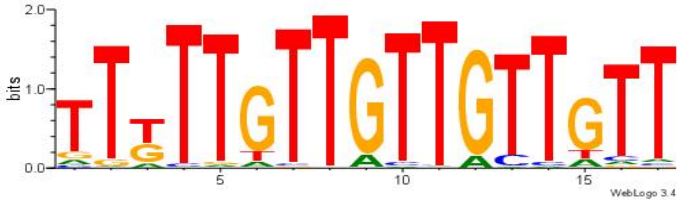

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0829298

Alignment:

```
TTTTTTTMTTT
-TTCTGTTTCT
```

Original motif Consensus sequence: AAAYAAAAAAA

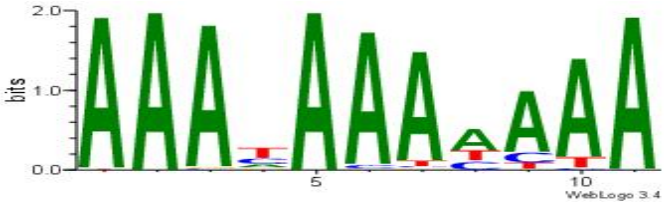

Reverse complement motif Consensus sequence: TTTTTTTMTTT

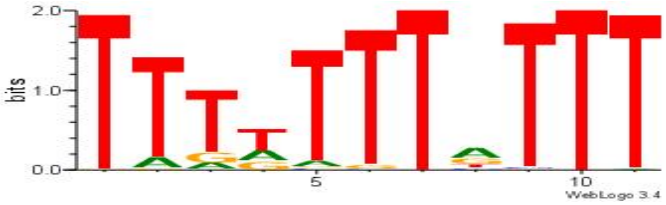

Dataset #:	1
Motif ID:	148

Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0841188

Alignment:

```
AAAGAGAGTCAGCGAAG
----AGAAACAGAA---
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

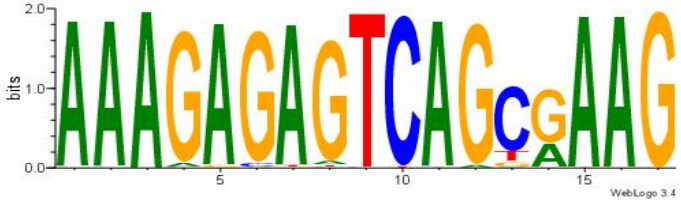

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

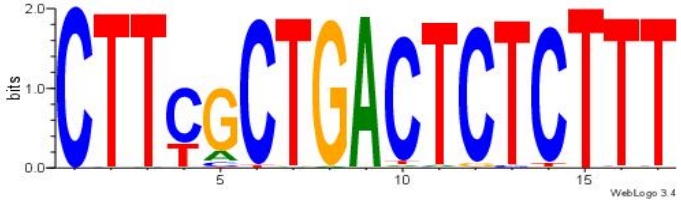

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0842875

Alignment:
ACATCTGYMMCC
TTCTGTTTCT--

Original motif Consensus sequence: ACATCTGYMMCC

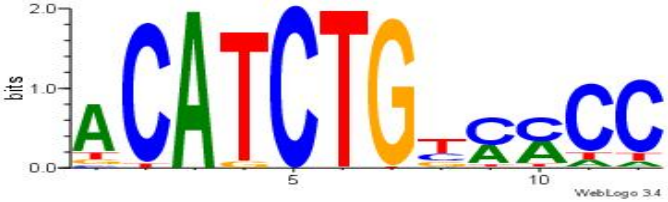

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0847461

Alignment:
TCCAAATGGGAGAAATTGGC
----------AGAAACAGAA

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

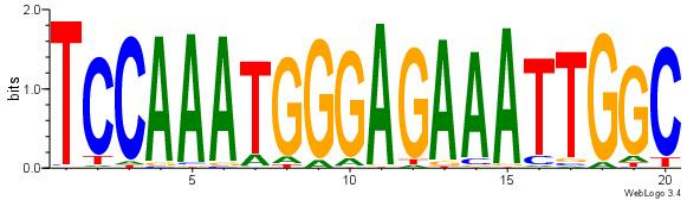

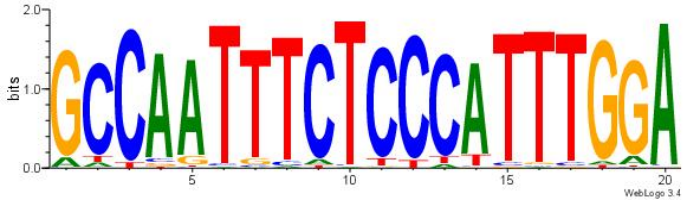

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0849123

Alignment:

```
TTGAGACMGKGTCT
---AGAAACAGAA-
```

Original motif Consensus sequence: AGACYCYGTCTCAA

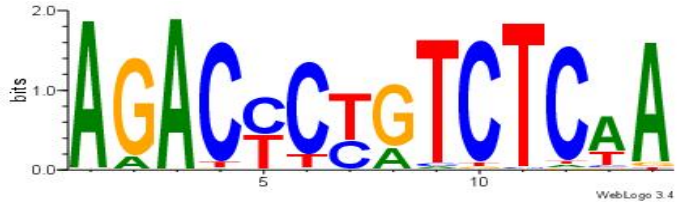

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

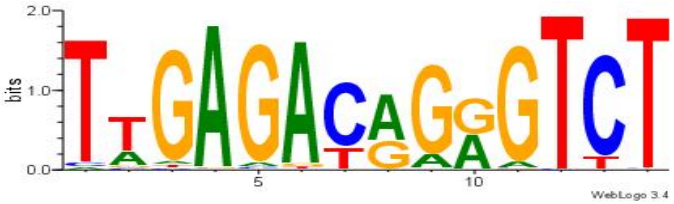

Dataset #:	1
Motif ID:	193

Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0849626

Alignment:

```
GKCTGTACCCCCATTGTAT
TTCTGTTTCT---------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

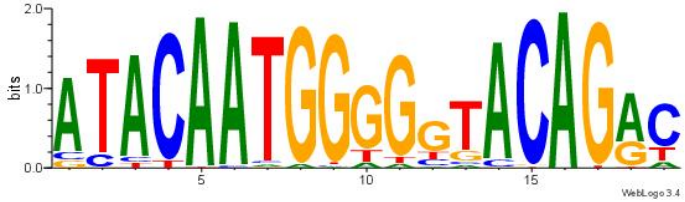

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

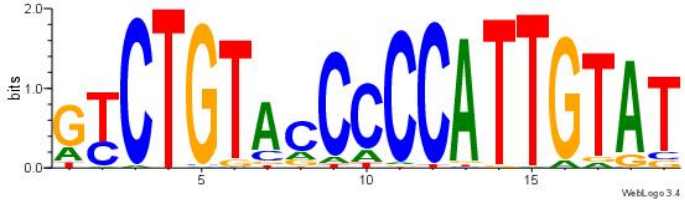

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0859691

Alignment:
HAGTGGKATTGCTGGATCAT
---------TTCTGTTTCT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

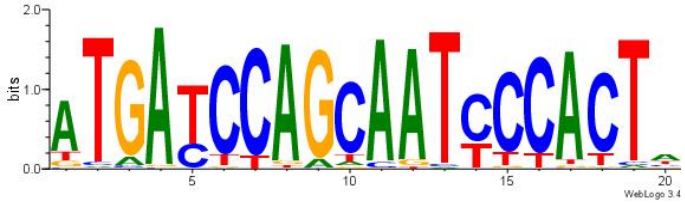

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

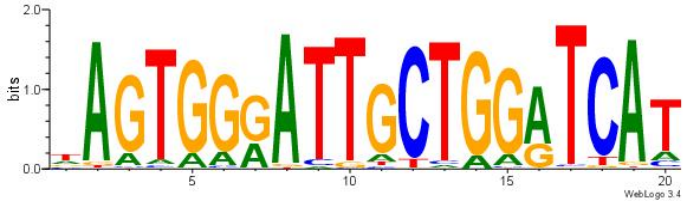

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0860684

Alignment:
TGGAGAACCTTTATGTCTAG
--------TTCTGTTTCT--

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

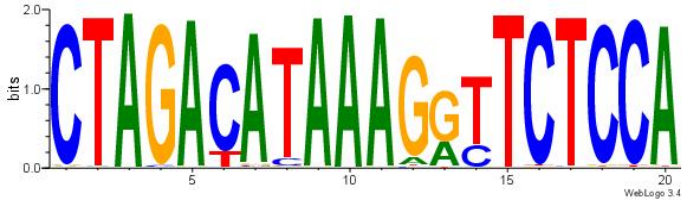

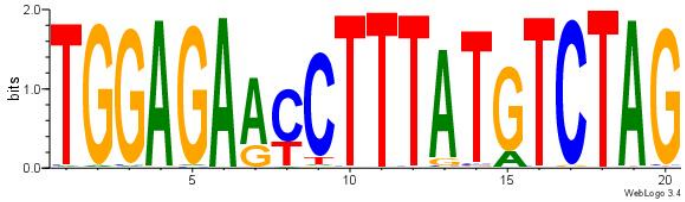

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0869128

Alignment:

```
ACAGAGTGAGACTCT
--AGAAACAGAA---
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

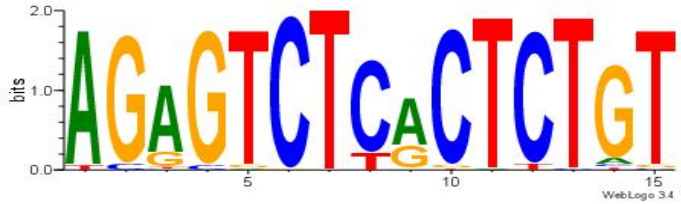

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

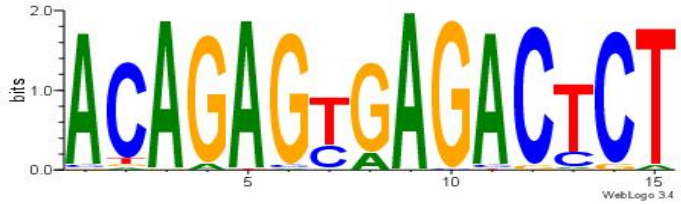

Dataset #:	1
Motif ID:	187

Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0871835

Alignment:

```
TCTCTGAGCCTCAGTT
-TTCTGTTTCT-----
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

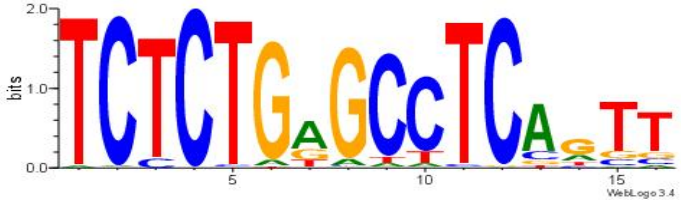

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

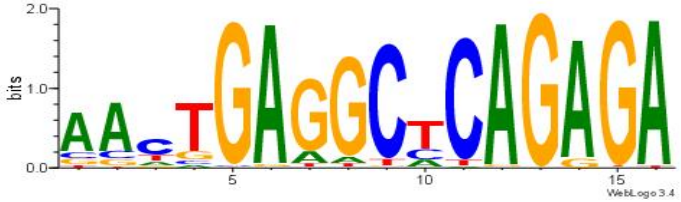

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0878225

Alignment:
KACATTGATTTTGTATC
----TTCTGTTTCT---

Original motif Consensus sequence: GATACAAAATCAATGTR

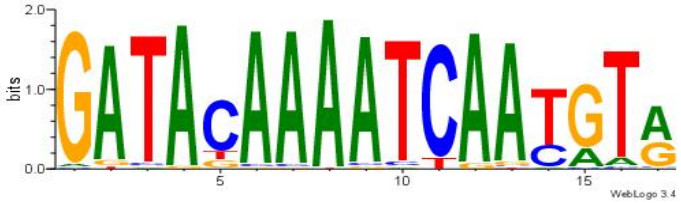

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

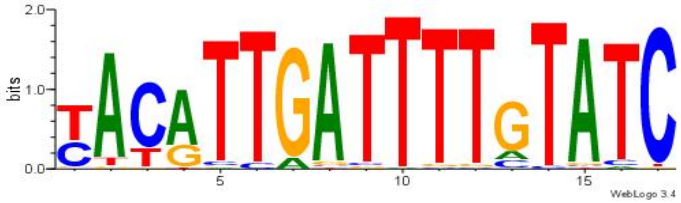

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0886555

Alignment:
TTGGAGGTTCTAGCAGGG
-TTCTGTTTCT-------

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

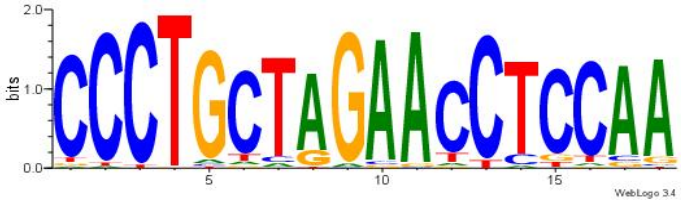

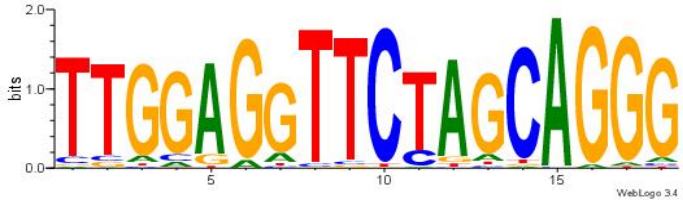

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0888678

Alignment:

```
CAAAGGCATAAGAATGAT
-AGAAACAGAA-------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

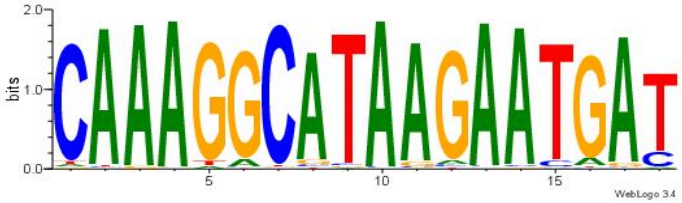

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

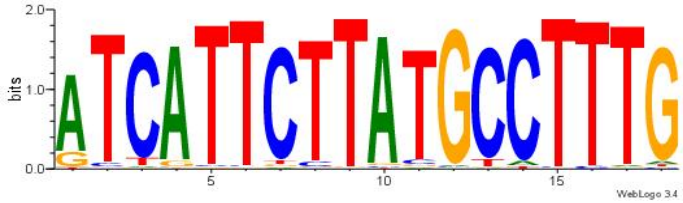

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0888717

Alignment:

```
GTGTCCCCTTCCTCCC
---TTCTGTTTCT---
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

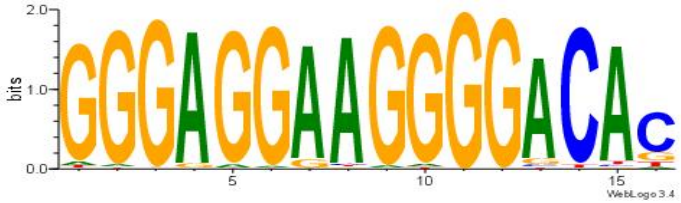

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

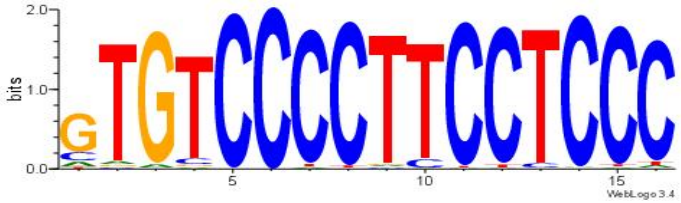

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0890612

Alignment:
MGCTGAGGCAGGAG
---AGAAACAGAA-

Original motif Consensus sequence: CTCCTGCCTCAGCY

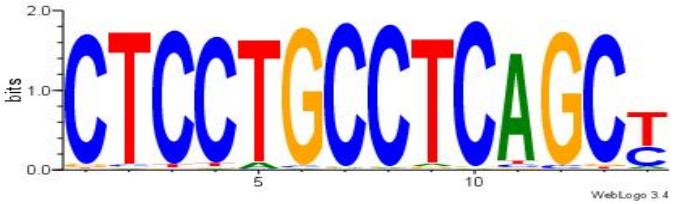

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

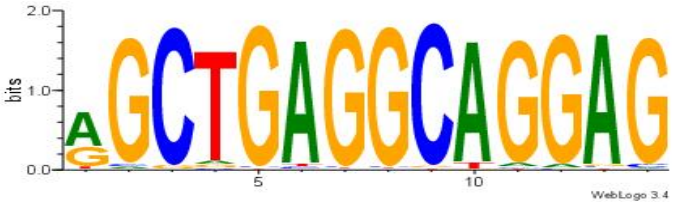

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0892237

Alignment:
AACAACASACACTGGGGCCT
AGAAACAGAA----------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

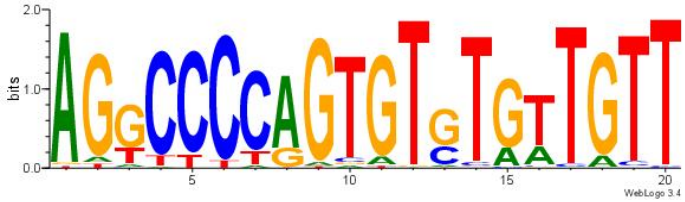

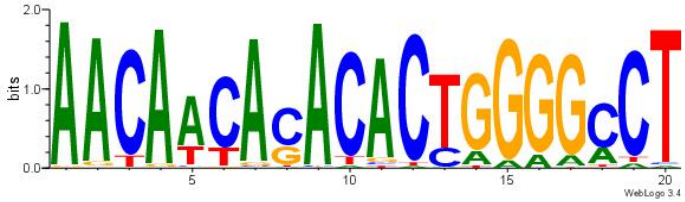

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0901555

Alignment:
TAMGACCTCAGGTCCTCAG
------TTCTGTTTCT---

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

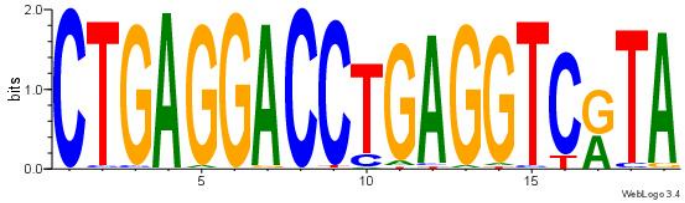

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

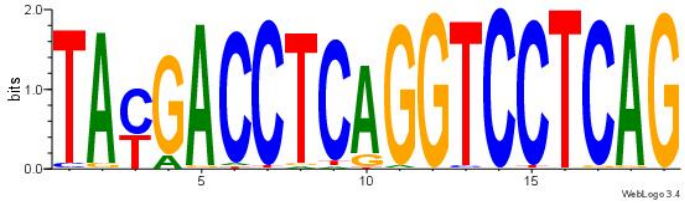

Dataset #: 1

Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0903376

Alignment:

```
AGCAGCTGTAAATA
AGAAACAGAA----
```

Original motif Consensus sequence: AGCAGCTGTAAATA

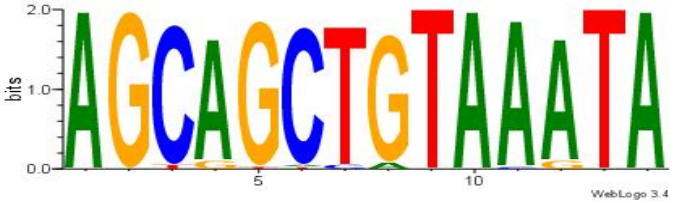

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

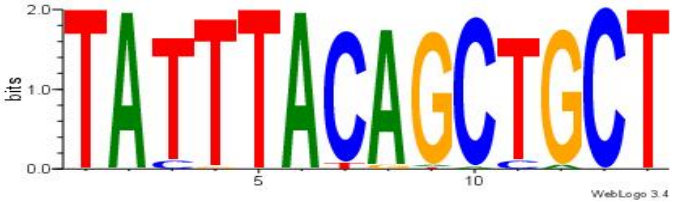

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0903567

Alignment:
CTCTTGTTGCCCAG
---TTCTGTTTCT-

Original motif Consensus sequence: CTCTTGTTGCCCAG

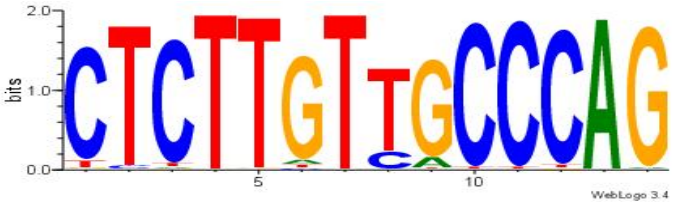

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

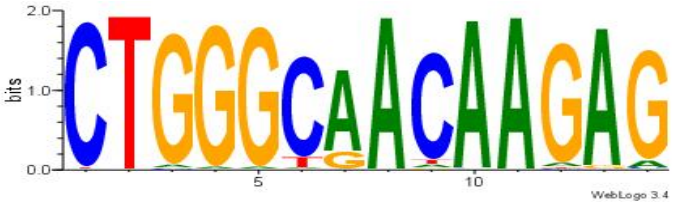

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0911691

Alignment:
ATGTAACCAAAYACCACCTG
-AGAAACAGAA---------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

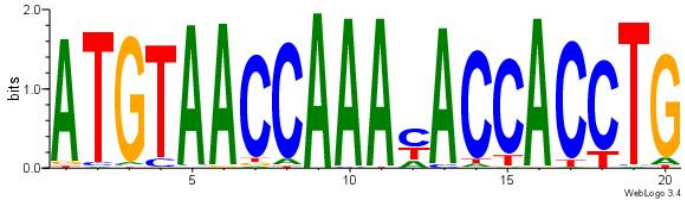

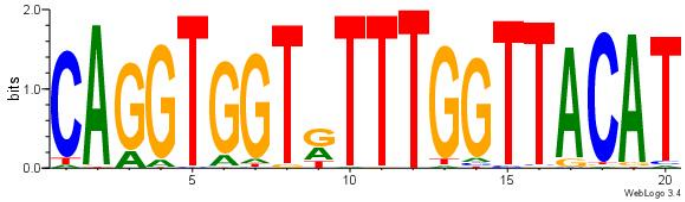

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0913714

Alignment:

```
GAAATTGACTTCCTCCT
----TTCTGTTTCT---
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

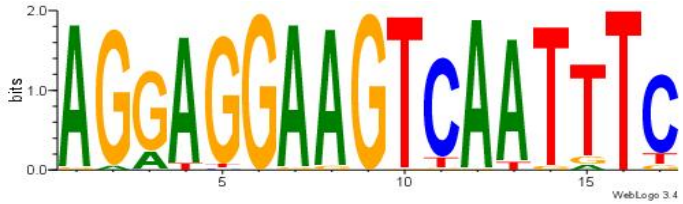

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

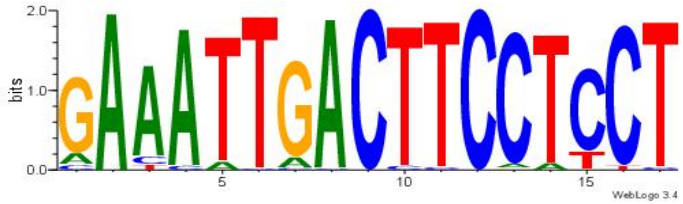

Dataset #: 1

Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0918621

Alignment:

```
ATATTGATGATCCTGACC
----TTCTGTTTCT----
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

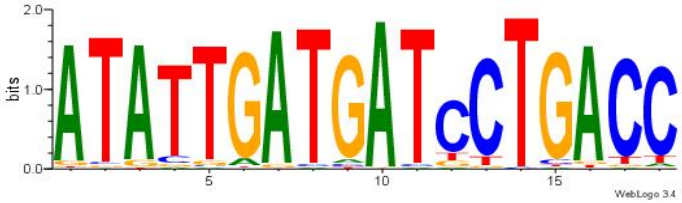

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

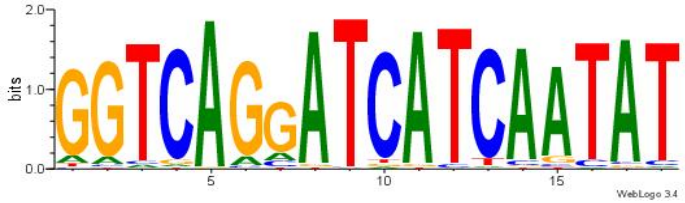

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.091987

Alignment:
CATTAGATTCTCATAGGA
-------TTCTGTTTCT-

Original motif Consensus sequence: CATTAGATTCTCATAGGA

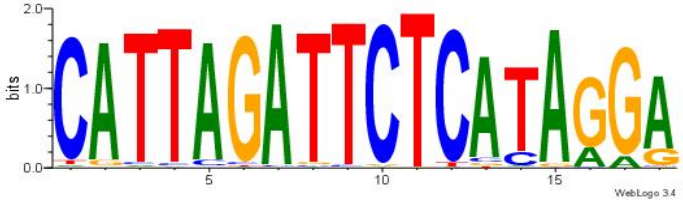

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

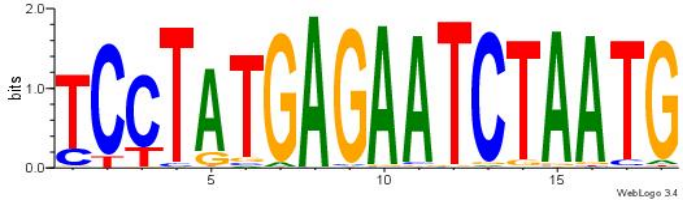

Dataset #: 1
Motif ID: 243
Motif name: Motif 243
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0920018

Alignment:
CAGTGGTTCTCAA
TTCTGTTTCT---

Original motif Consensus sequence: CAGTGGTTCTCAA

Reverse complement motif Consensus sequence: TTGAGAACCACTG

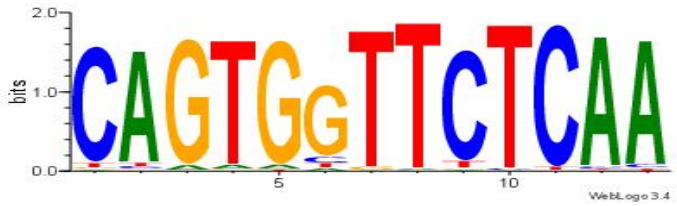

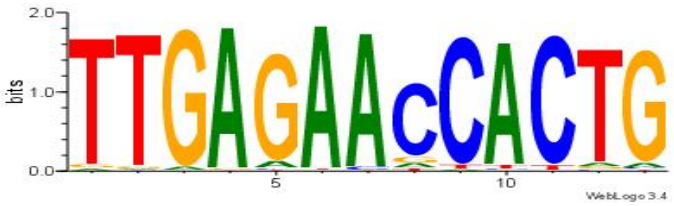

Dataset #:	1
Motif ID:	204
Motif name:	Motif 204
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0932139

Alignment:

```
GGAGTCTMKCTCT
---TTCTGTTTCT
```

Original motif Consensus sequence: AGAGYRAGACTCC

Reverse complement motif Consensus sequence: GGAGTCTMKCTCT

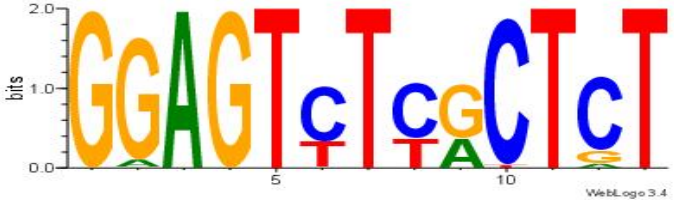

Dataset #:	1
Motif ID:	233

Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.093409

Alignment:

```
GTTAACTGTAAAACAGCCT
--------AGAAACAGAA-
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

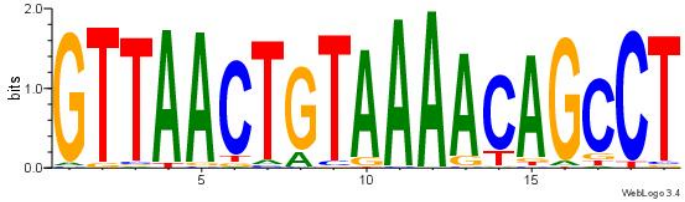

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

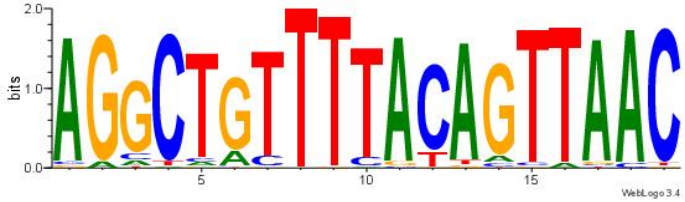

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.093512

Alignment:
CAATGATAGACTGGAT
-----AGAAACAGAA-

Original motif Consensus sequence: ATCCAGTCTATCATTG

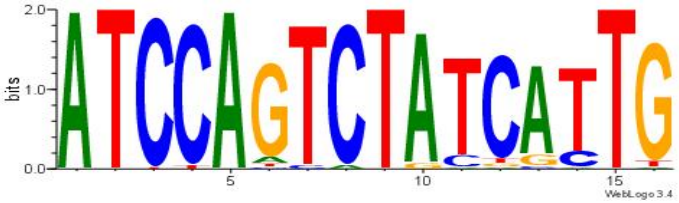

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

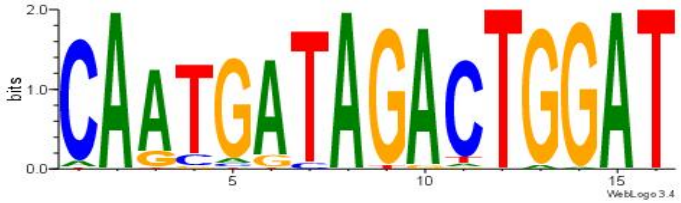

Dataset #: 1 Motif ID: 218 Motif name: Motif 218

Original motif Consensus sequence: AAGTWACTT

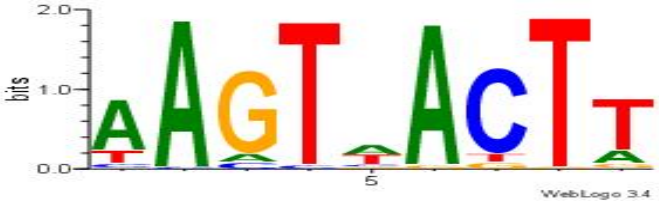

Reverse complement motif Consensus sequence: AAGTWACTT

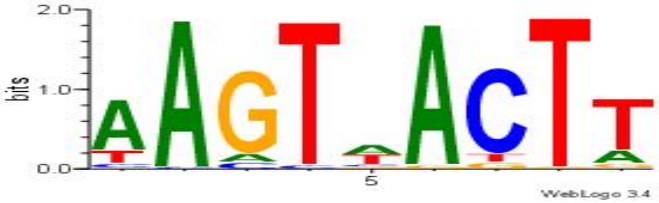

Best Matches for Significant Motif ID 218 (Highest to Lowest)

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number:	7
Number of overlap:	9
Similarity score:	0.0387296

Alignment:
GAAATTGACTTCCTCCT
--AAGTWACTT------

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

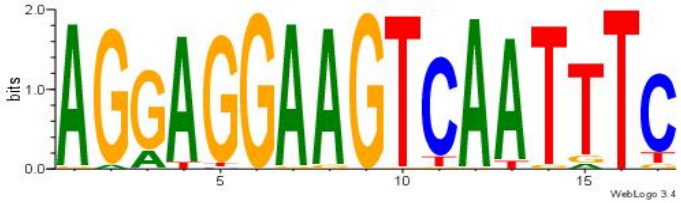

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

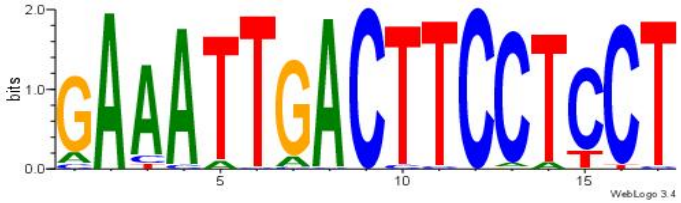

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0394637

Alignment:
MGAAGGGACTTGCCTTGT
--AAGTWACTT-------

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

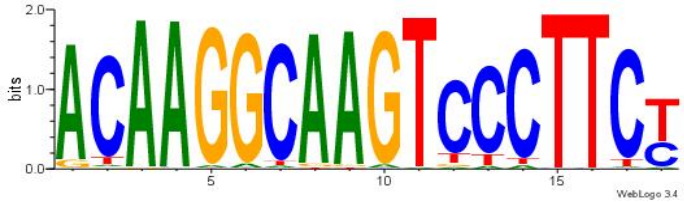

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

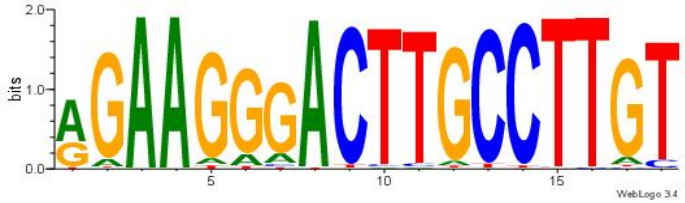

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0489965

Alignment:

```
ACGTCACTTCCG
AAGTWACTT---
```

Original motif Consensus sequence: CGGAAGTGACGT

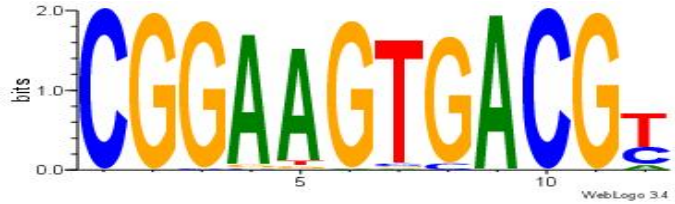

Reverse complement motif Consensus sequence: ACGTCACTTCCG

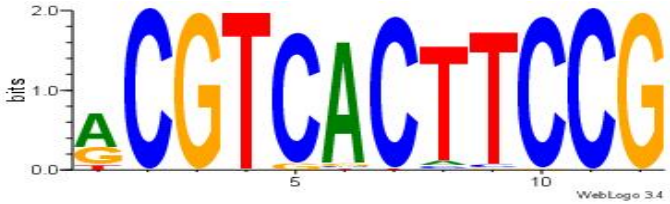

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0574127

Alignment:

```
TGTATTAGTCMMTT
-----AAGTWACTT
```

Original motif Consensus sequence: AAYRGACTAATACA

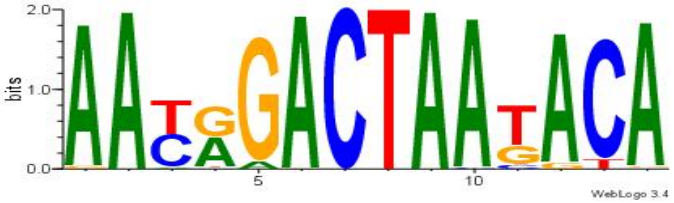

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

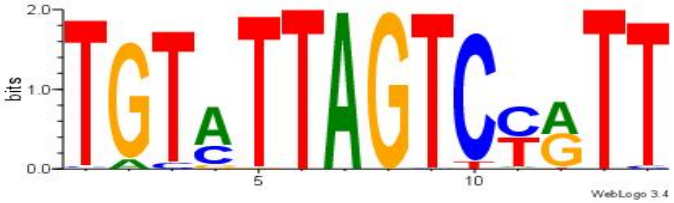

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.0685527

Alignment:
CTCRAATGTCCCTT
AAGTWACTT-----

Original motif Consensus sequence: AAGGGACATTKGAG

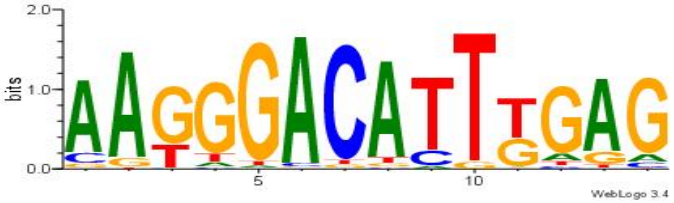

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

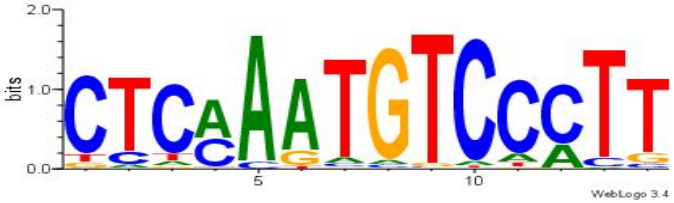

Dataset #: 1
Motif ID: 103
Motif name: Motif 103
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0694618

Alignment:
TTATTTCACTT
--AAGTWACTT

Original motif Consensus sequence: AAGTGAAATAA

Reverse complement motif Consensus sequence: TTATTTCACTT

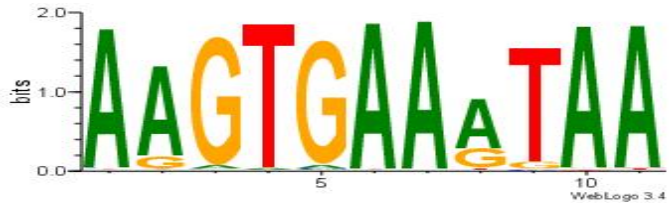

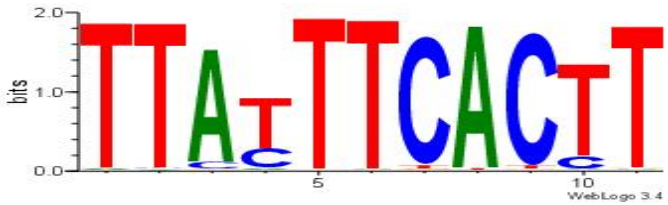

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0699729

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-----------AAGTWACTT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

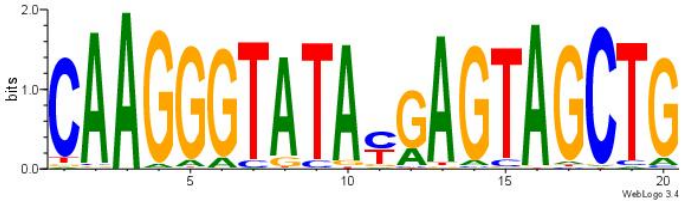

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

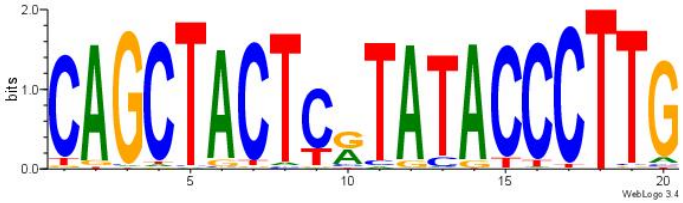

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0711788

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-------AAGTWACTT----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

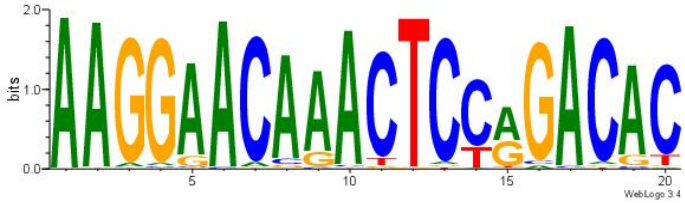

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

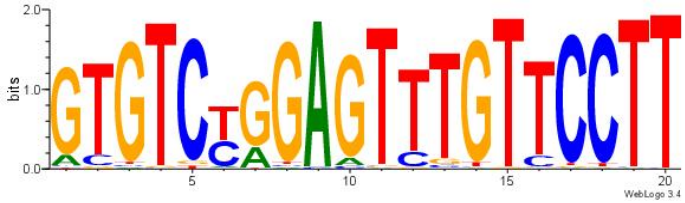

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0717093

Alignment:
TGGAGAACCTTTATGTCTAG
--AAGTWACTT---------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

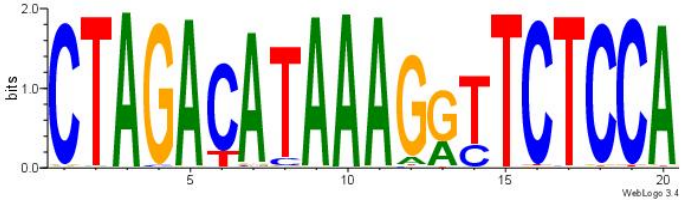

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

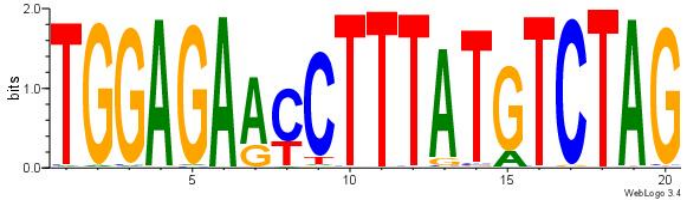

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0735418

Alignment:
AAAATCACAAGCATTCCTAT
-AAGTWACTT----------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

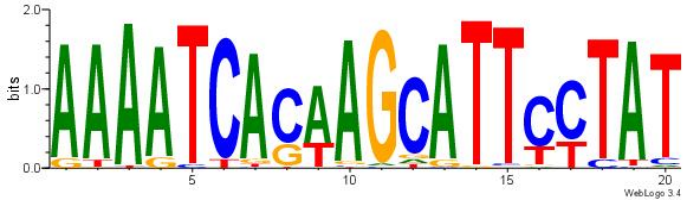

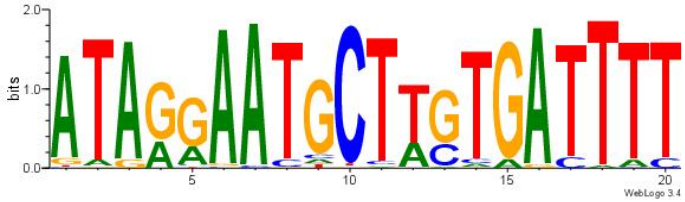

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0738032

Alignment:

```
AAATTACCCAGTCTCAGGTA
AAGTWACTT-----------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

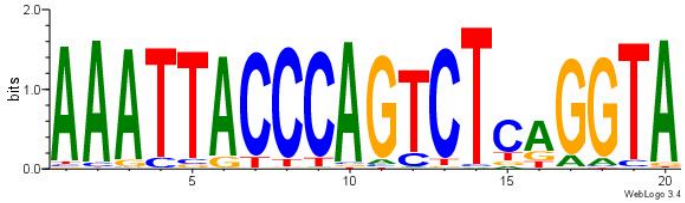

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

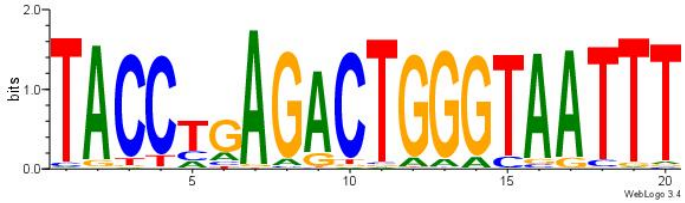

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0757779

Alignment:

```
TWTACCTATGTAACAAACCT
-------AAGTWACTT----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

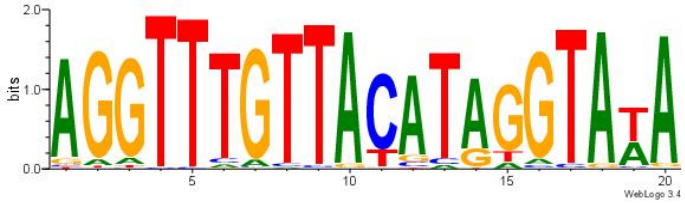

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

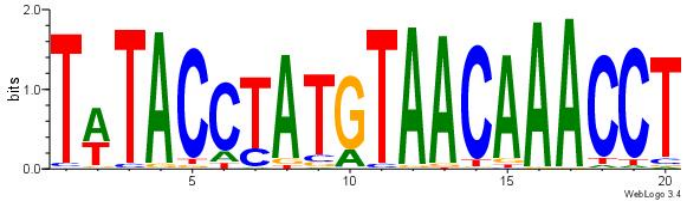

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9

Similarity score: 0.075872

Alignment:
TAAAAGACTACAWATTGGGT
-AAGTWACTT----------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

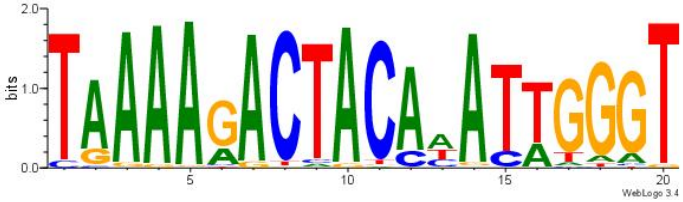

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

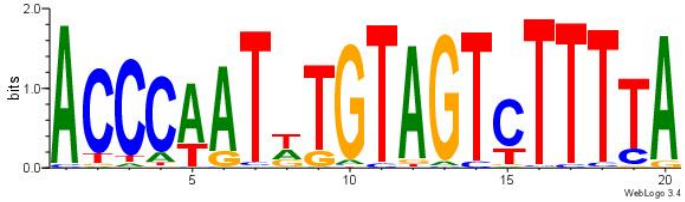

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0760991

Alignment:
ATAAAAACTTGCTGGTTTT
-AAGTWACTT---------

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

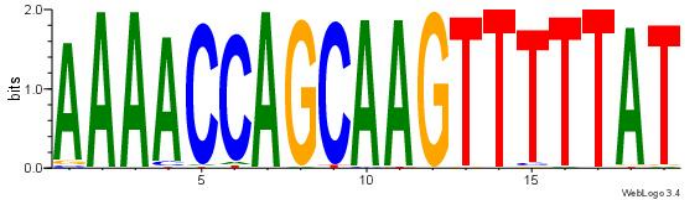

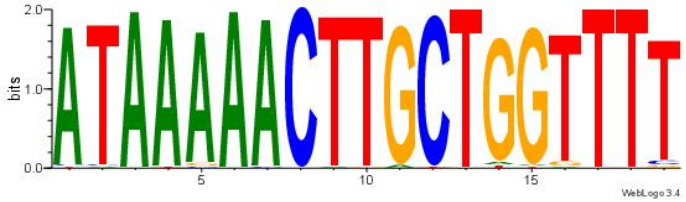

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.077263

Alignment:

```
ATGGACAYTTRGGTTGHTTC
----------AAGTWACTT-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

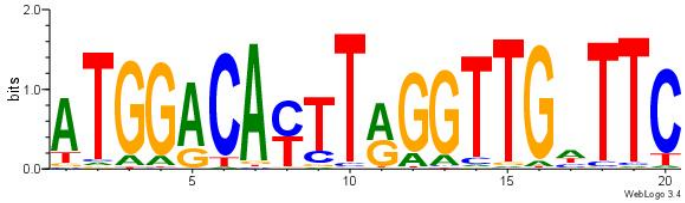

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

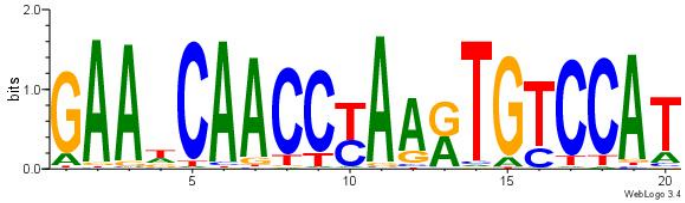

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.077362

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-------AAGTWACTT----
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

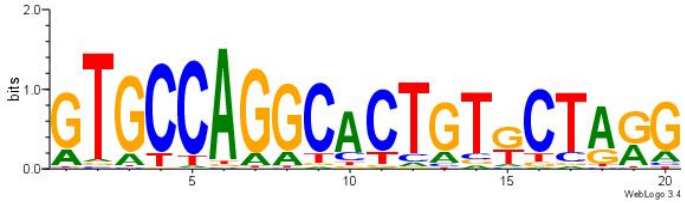

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

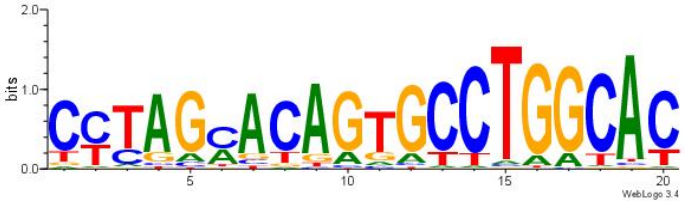

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9

Similarity score: 0.0779003

Alignment:
TGAGKCAATTAAACCTCTT
-AAGTWACTT---------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

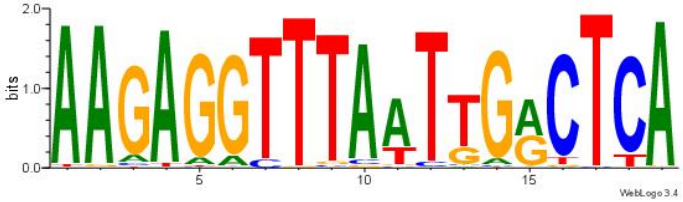

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

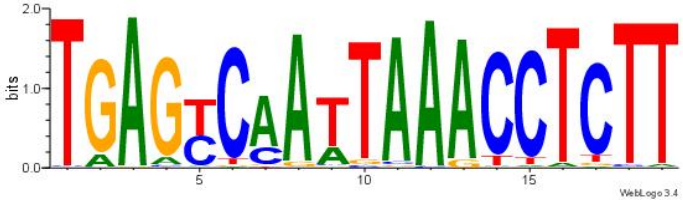

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 12
Number of overlap: 9
Similarity score: 0.0779086

Alignment:
CAGGTGGTKTTTGGTTACAT
-----------AAGTWACTT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

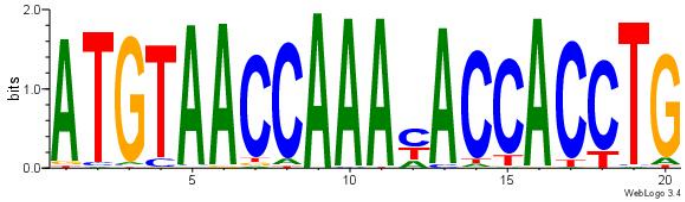

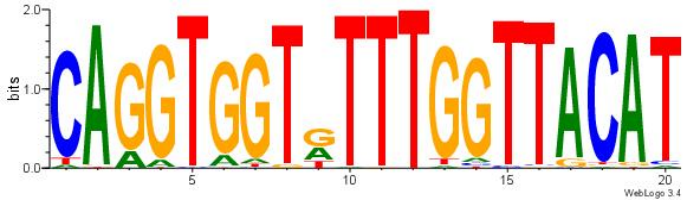

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0790997

Alignment:

```
ACACATCACAAAGCAGTTTC
-AAGTWACTT----------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

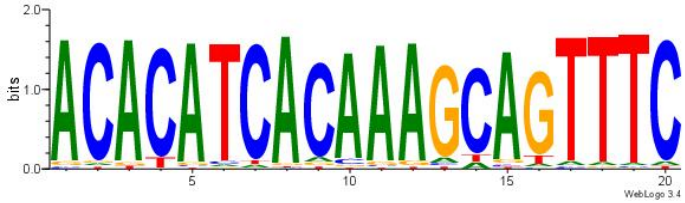

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

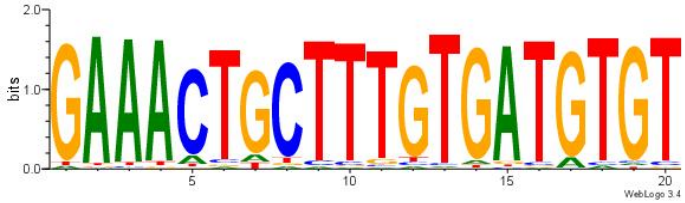

Dataset #: 1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0794798

Alignment:

```
TAGTGGTGATTTSTGAGAT
---AAGTWACTT-------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

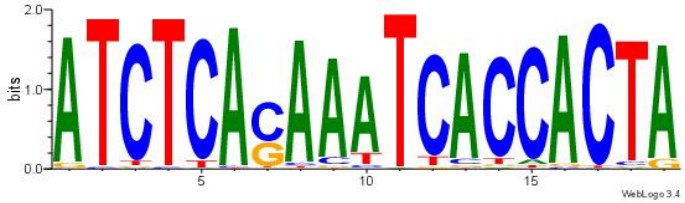

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

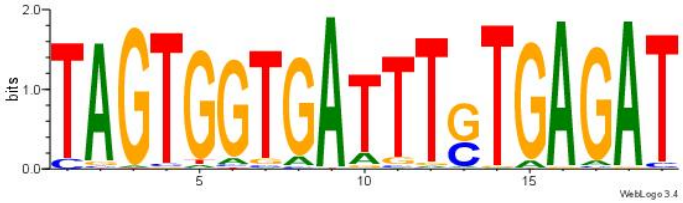

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0809594

Alignment:
GCCTCAGTTTCCY
----AAGTWACTT

Original motif Consensus sequence: GCCTCAGTTTCCY

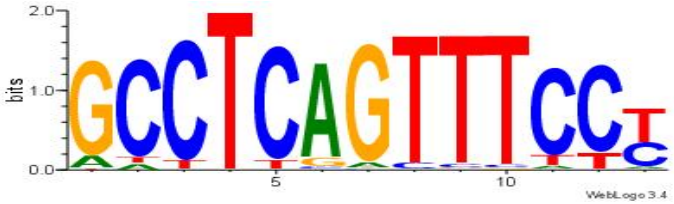

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

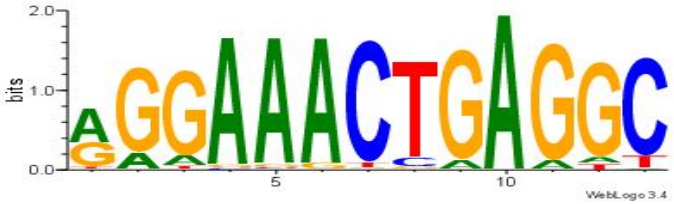

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.0809657

Alignment:
CTCCAGKTMCATCCATGTTG
---AAGTWACTT--------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

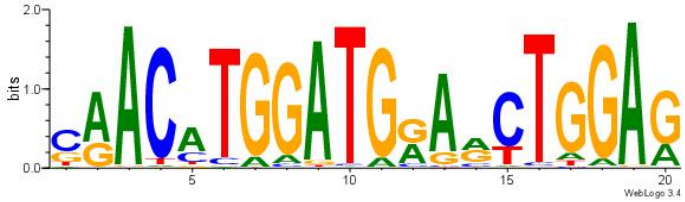

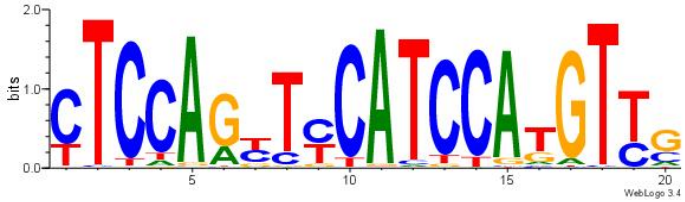

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0815849

Alignment:

```
GCCAGTCACAAAARGACAMA
--AAGTWACTT---------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

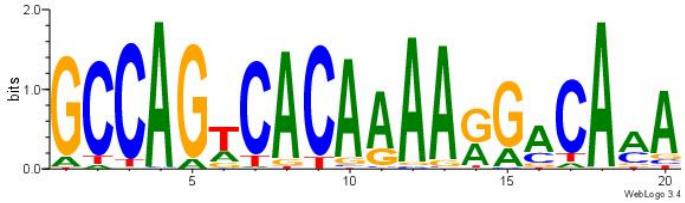

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

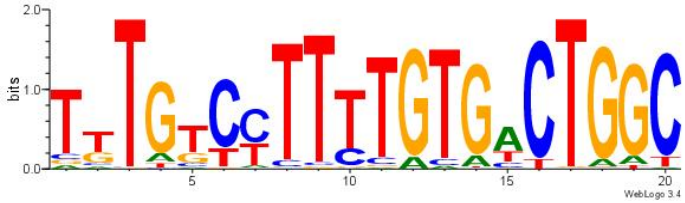

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0818817

Alignment:

```
GCAAAKGACATGATYTCATT
--AAGTWACTT---------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

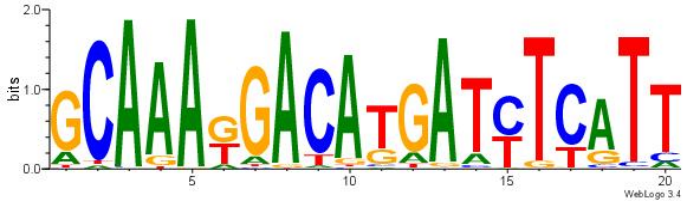

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

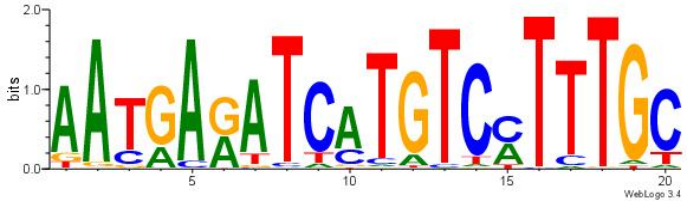

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.0826143

Alignment:
GATACAAAATCAATGTR
------AAGTWACTT--

Original motif Consensus sequence: GATACAAAATCAATGTR

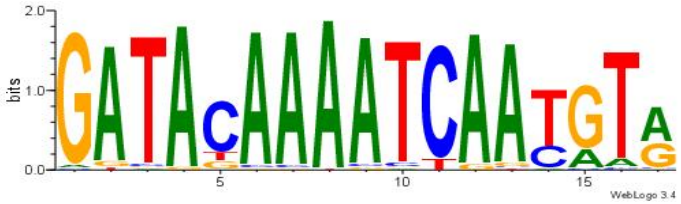

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

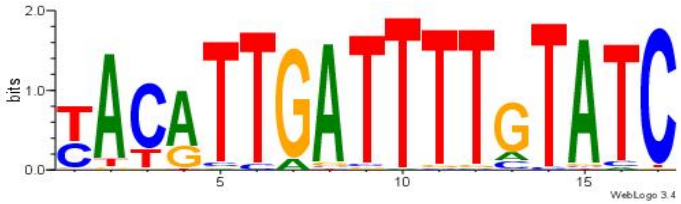

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0830873

Alignment:
CAGAAATCACCCGTCTT
---AAGTWACTT-----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

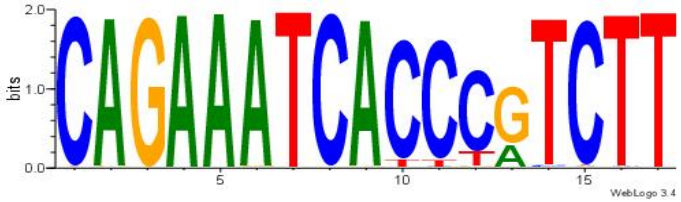

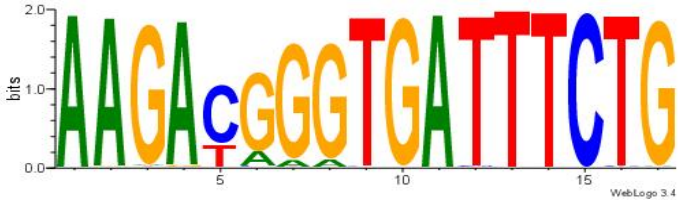

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0833942

Alignment:

```
AGTAGGTGCTCARTAAATRB
----------AAGTWACTT-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

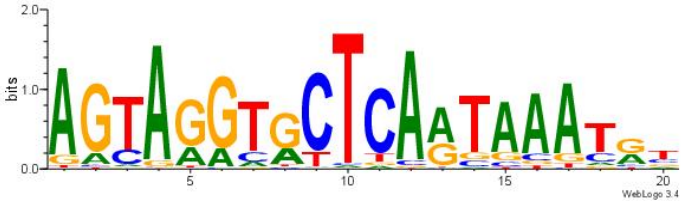

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

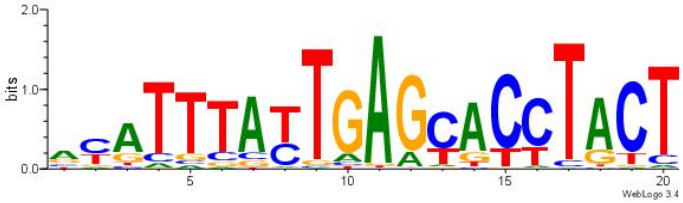

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0836325

Alignment:

```
CTGACTGGGAGACACCTCCC
--------AAGTWACTT---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

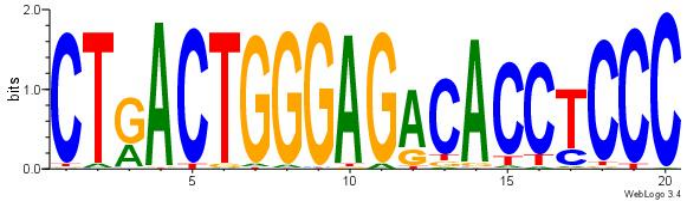

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

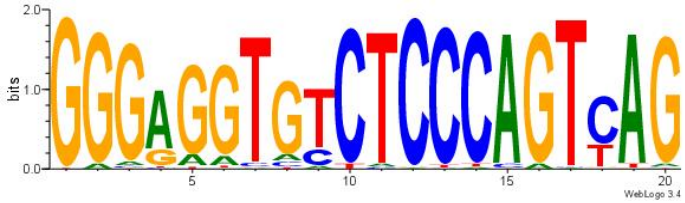

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9

Similarity score: 0.083706

Alignment:
AAATTAGGCCAATTAATAAC
---------AAGTWACTT--

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

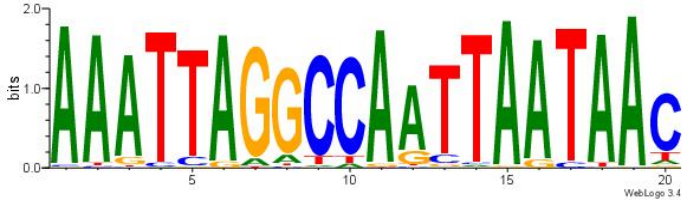

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 9
Similarity score: 0.0840073

Alignment:
GGTTCATCTCACTAGGGAGT
-----AAGTWACTT------

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

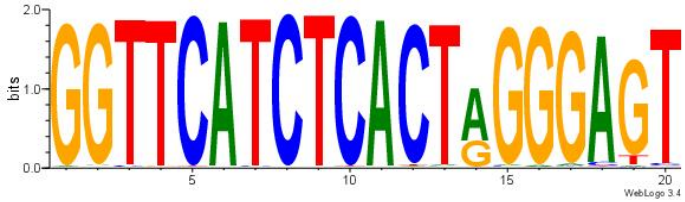

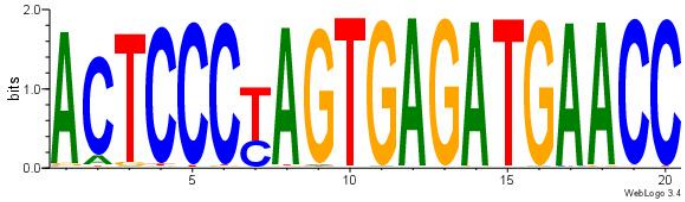

Dataset #:	1
Motif ID:	162
Motif name:	Motif 162
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0841892

Alignment:

```
CAAGGTCCAT
-AAGTWACTT
```

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

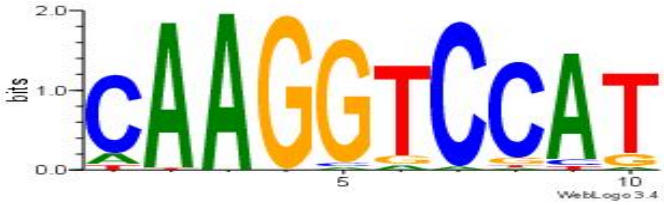

Dataset #:	1
Motif ID:	112

Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0846003

Alignment:

```
GCTGTGTGACCTTGGGCAAG
---AAGTWACTT--------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

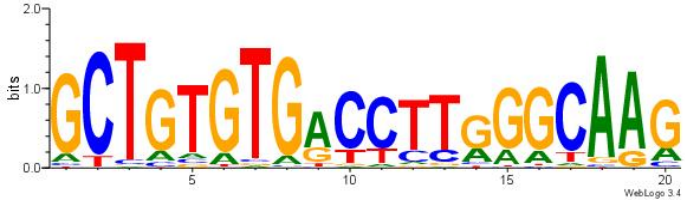

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

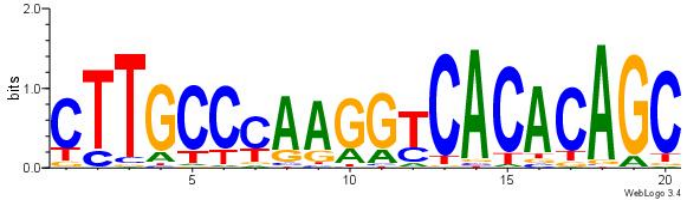

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0846108

Alignment:
TTTCTTTTCCTT
---AAGTWACTT

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

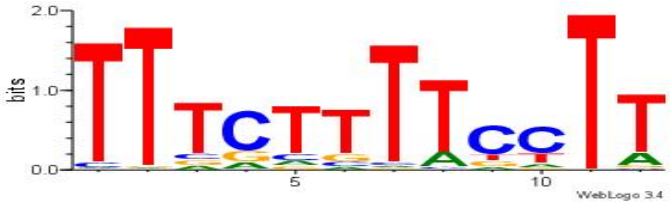

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0847174

Alignment:
AAGTTCTKGGKTACATGTGC
AAGTWACTT----------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

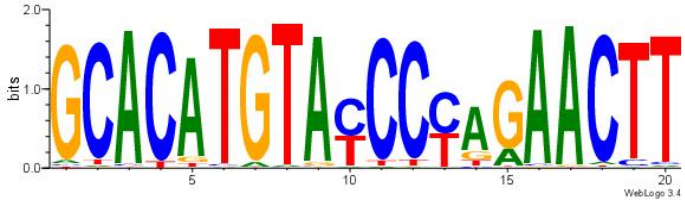

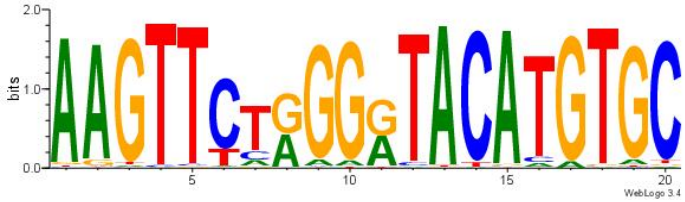

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.085721

Alignment:

```
GCTGCARTCTCGGCACTTT
---------AAGTWACTT-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

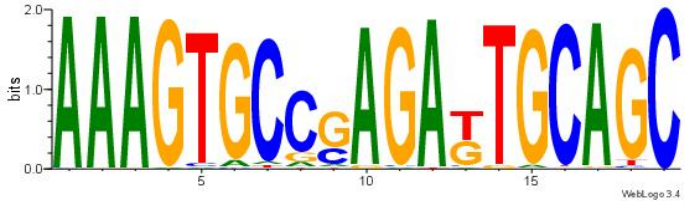

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

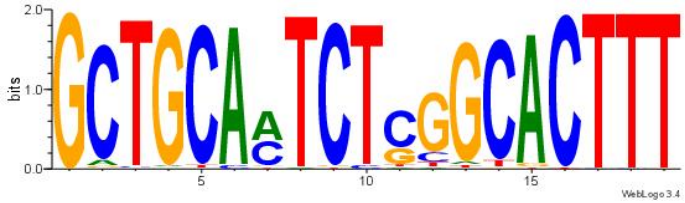

Dataset #:	1

Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0862363

Alignment:

```
CAGTCTGTGTCTTTTAATT
----AAGTWACTT------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

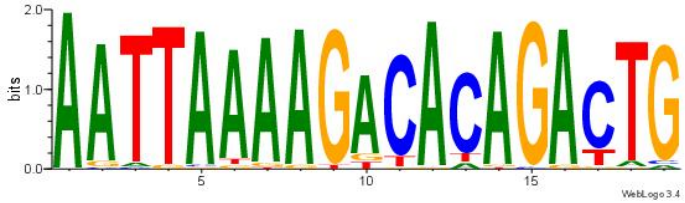

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

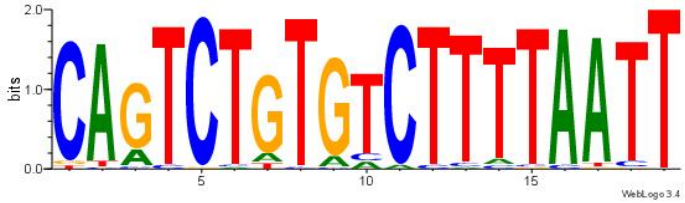

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9

Similarity score: 0.0865946

Alignment:
GAAAGGGAACTCCCTGACCC
----AAGTWACTT-------

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

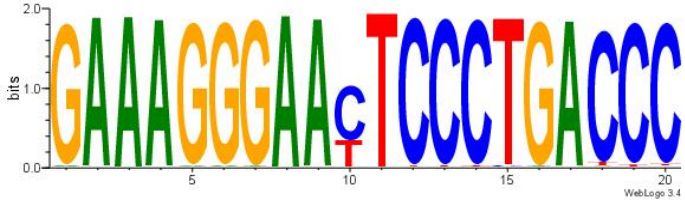

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

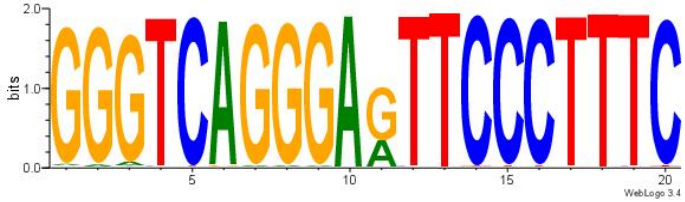

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.0865968

Alignment:
GTTGTGAGGATTAAATGAG
--------AAGTWACTT--

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

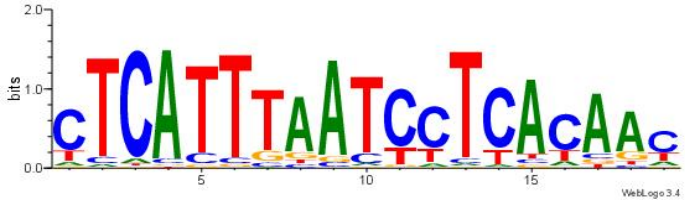

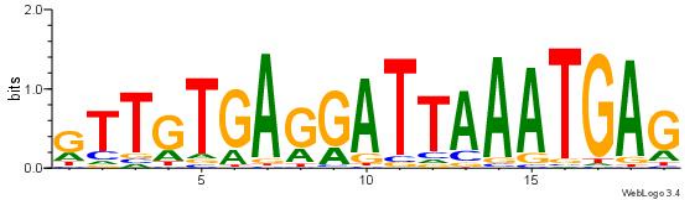

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0873016

Alignment:

```
CTTCGCTGACTCTCTTT
-AAGTWACTT-------
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

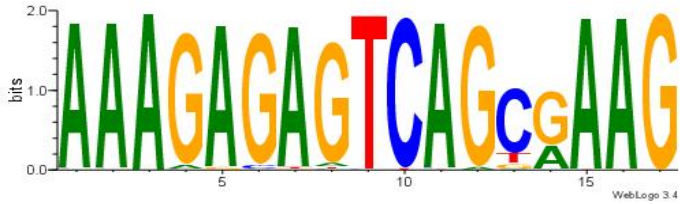

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

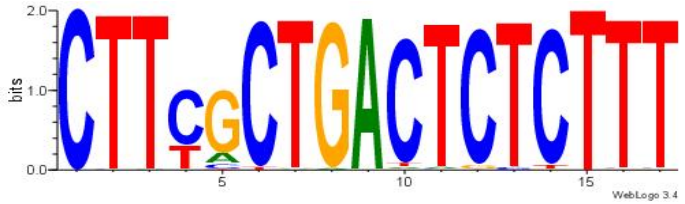

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0874143

Alignment:

```
CRTGAGCCACYGYRCCYGGC
---AAGTWACTT--------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

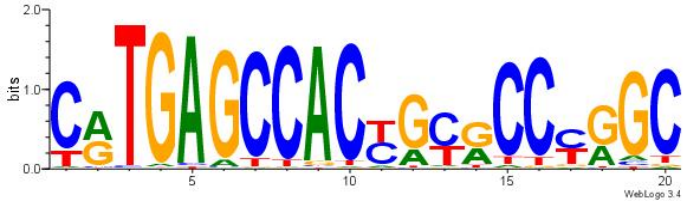

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

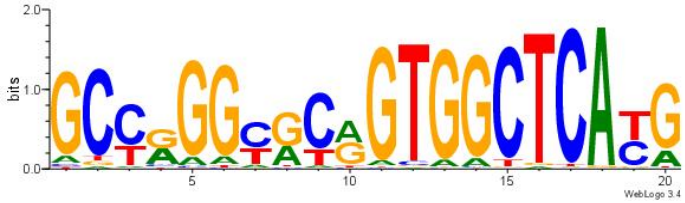

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0874895

Alignment:
AAAGCTGGAGCTATTATCTA
----------AAGTWACTT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

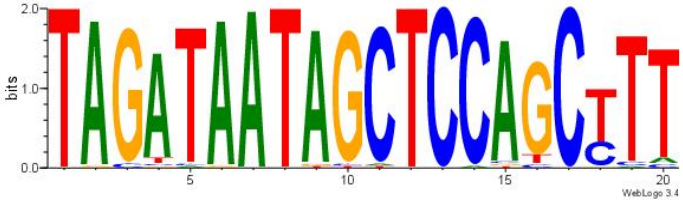

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

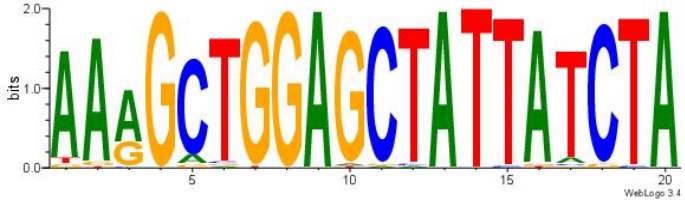

Dataset #: 1
Motif ID: 319
Motif name: Motif 319
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0876268

Alignment:
TAGTTTTTAACAA
AAGTWACTT----

Original motif Consensus sequence: TAGTTTTTAACAA

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

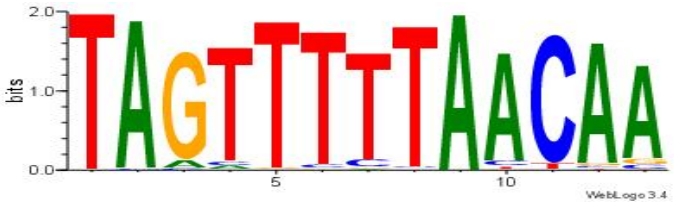

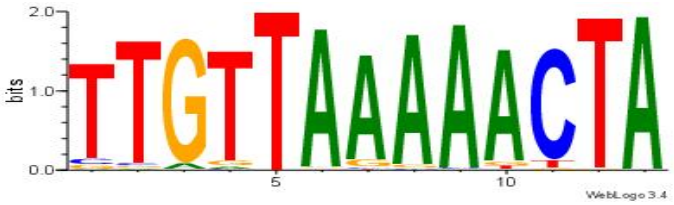

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0884666

Alignment:

```
AAATATTTATT
AAGTWACTT--
```

Original motif Consensus sequence: AAATATTTATT

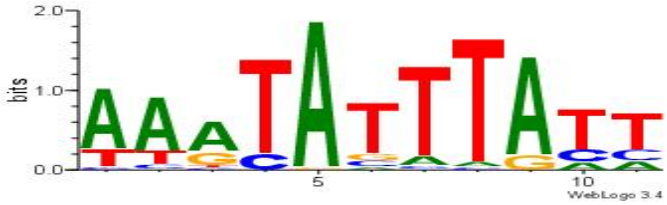

Reverse complement motif Consensus sequence: AATAAATATTT

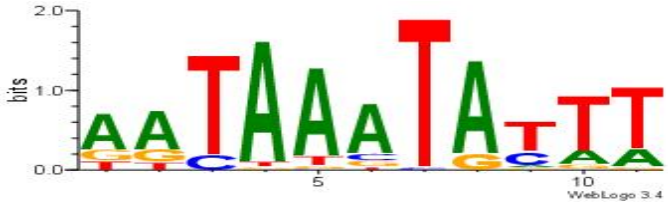

Dataset #:	1
Motif ID:	141

Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0888933

Alignment:

```
CTACATGGACCTT
----AAGTWACTT
```

Original motif Consensus sequence: AAGGTCCATGTAG

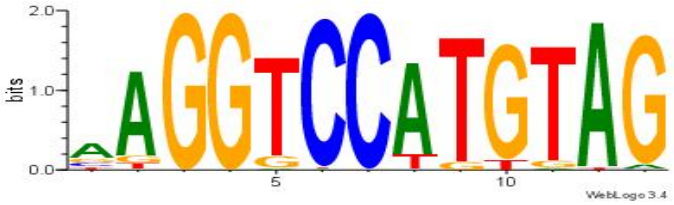

Reverse complement motif Consensus sequence: CTACATGGACCTT

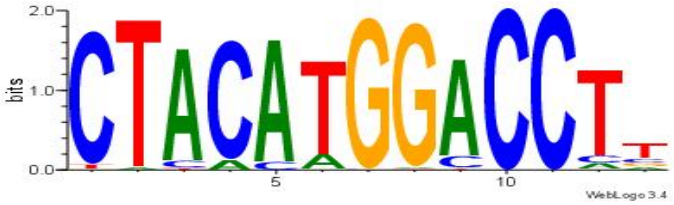

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0890057

Alignment:
AGGAGRCMCTCTGCCTGGC
--AAGTWACTT--------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

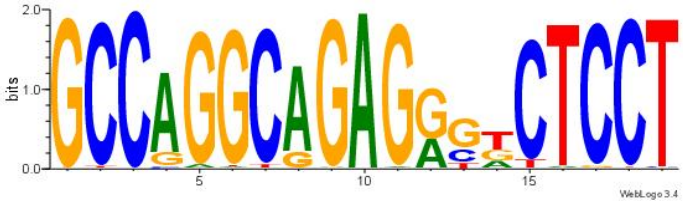

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

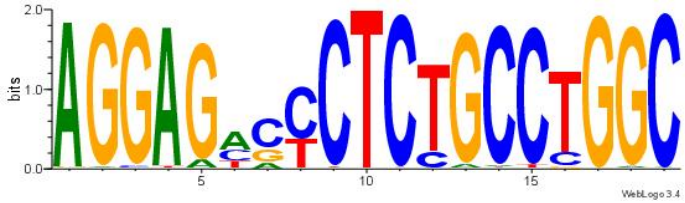

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0890265

Alignment:
CAAAGTCTTAACTCATT
-----AAGTWACTT---

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence:
CAAAGTCTTAACTCATT

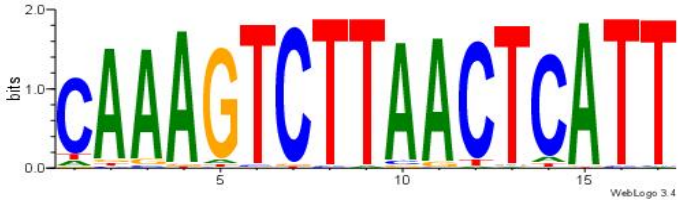

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.089056

Alignment:

```
AATAAACATGG
AAGTWACTT--
```

Original motif Consensus sequence: AATAAACATGG

Reverse complement motif Consensus sequence: CCATGTTTATT

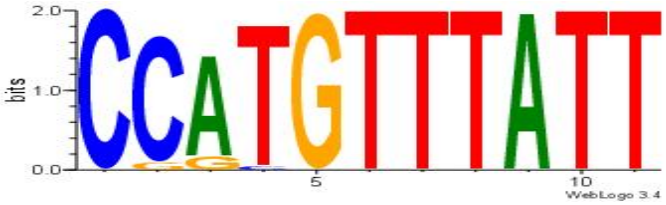

Dataset #:	1
Motif ID:	232

Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0894226

Alignment:

```
AGTTGTAATTGGGAGACTT
----------AAGTWACTT
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

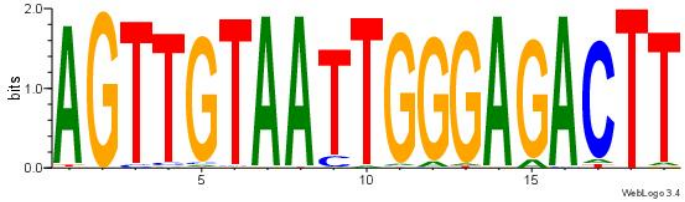

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

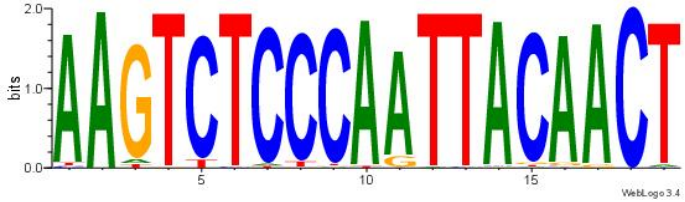

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.090029

Alignment:
TTGGTGGTCTCTTCACA
----AAGTWACTT----

Original motif Consensus sequence: TGTGAAGAGACCACCAA

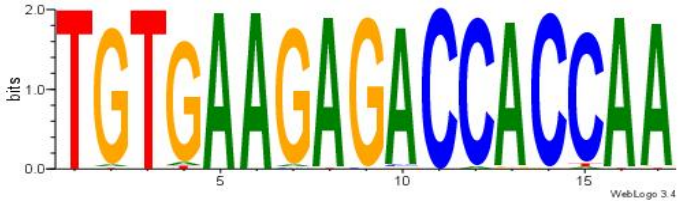

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

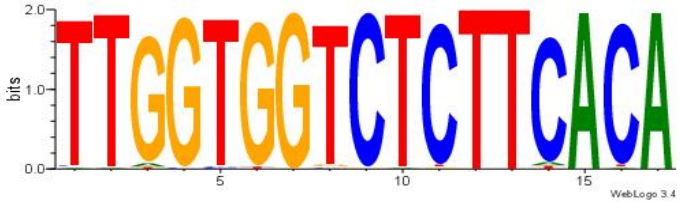

Dataset #:	1
Motif ID:	113
Motif name:	Motif 113
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0910003

Alignment:
CACTTCCTA
AAGTWACTT

Original motif Consensus sequence: CACTTCCTA

Reverse complement motif Consensus sequence: TAGGAAGTG

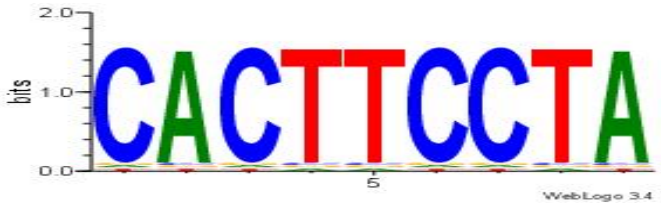

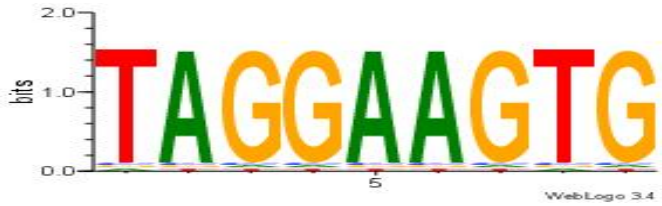

Dataset #: 1 **Motif ID: 181** **Motif name: Motif 181**

Original motif Consensus sequence: AAATGCAAAT

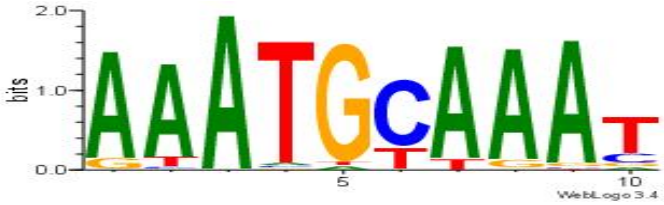

Reverse complement motif Consensus sequence: ATTTGCATTT

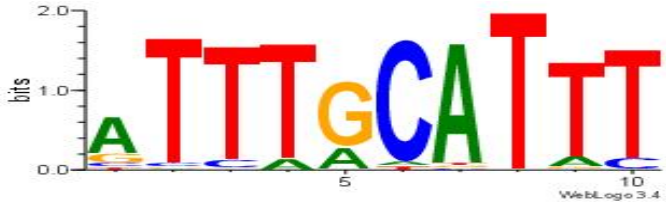

Best Matches for Significant Motif ID 181 (Highest to Lowest)

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0560732

Alignment:

```
AGGGCCTTTGCASWTGC
-----ATTTGCATTT--
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

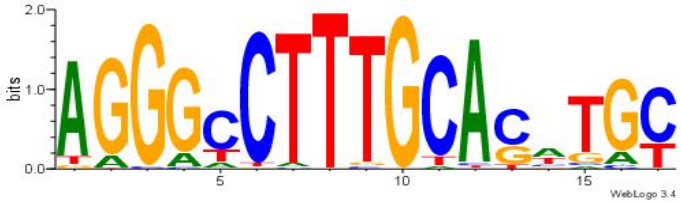

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

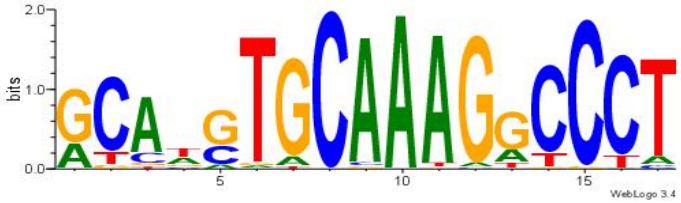

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0591841

Alignment:

```
GTACCTCAGWTGGAAATG
-AAATGCAAAT-------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

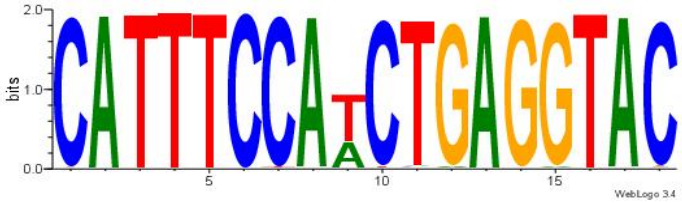

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

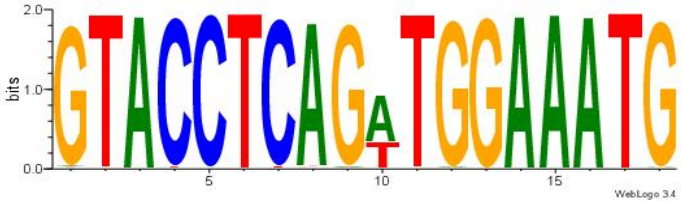

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0615448

Alignment:

```
GTTAACTGTAAAACAGCCT
---AAATGCAAAT------
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

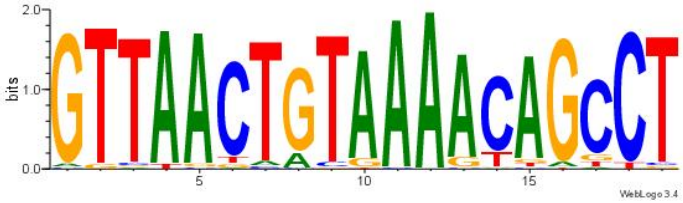

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

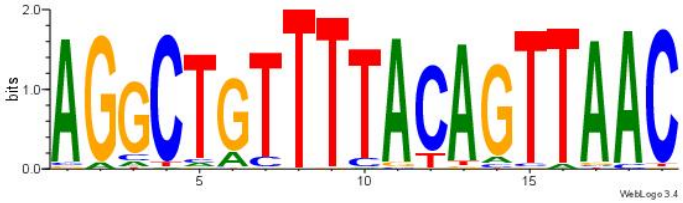

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 10
Similarity score: 0.0631714

Alignment:
CTCAGGAATGGAAAACC
-----AAATGCAAAT--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

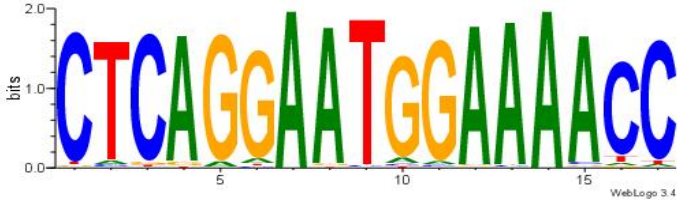

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

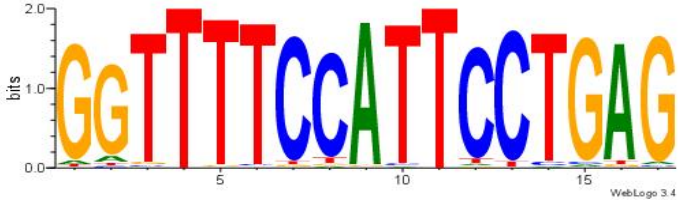

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 10
Similarity score: 0.0657257

Alignment:
ATTGGTGTATTTACAATCCC
--ATTTGCATTT--------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

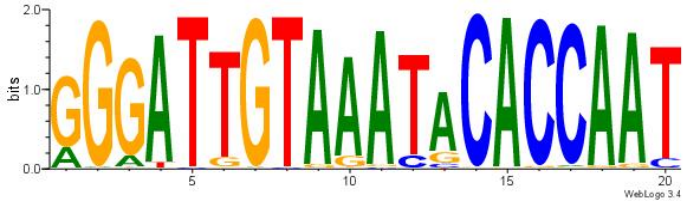

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.066761

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
---------ATTTGCATTT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

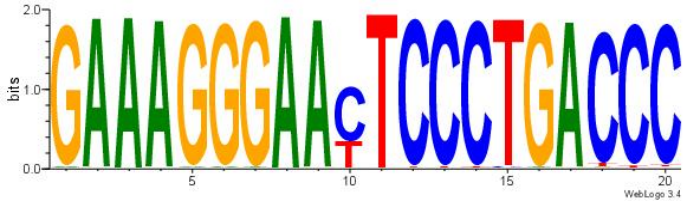

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

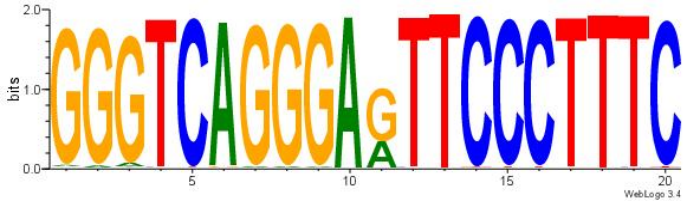

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0668321

Alignment:

```
AGCAGCTGTAAATA
---AAATGCAAAT-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

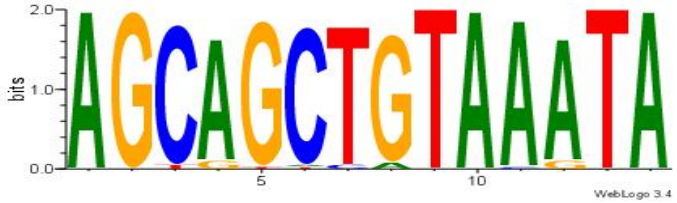

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

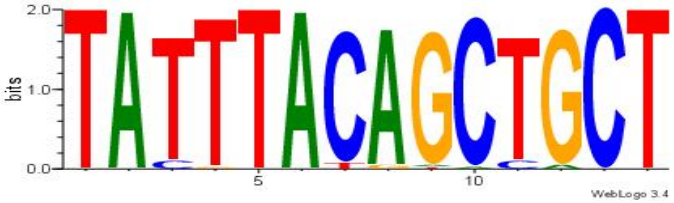

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0689434

Alignment:
CAAAGGCATAAGAATGAT
-AAATGCAAAT-------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

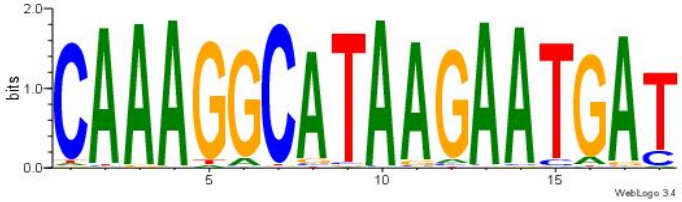

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

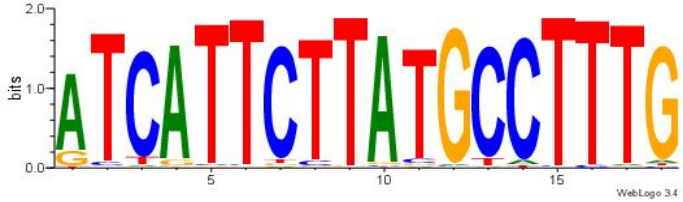

Dataset #: 1
Motif ID: 281
Motif name: Motif 281
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0699986

Alignment:
AAATGGAATCAT
AAATGCAAAT--

Original motif Consensus sequence: AAATGGAATCAT

Reverse complement motif Consensus sequence: ATGATTCCATTT

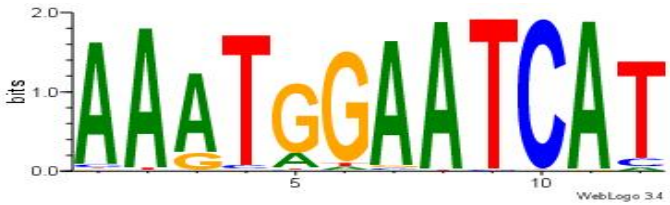

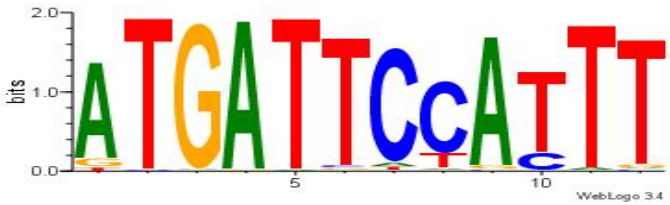

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0715764

Alignment:

```
GGATTTMKGACTTGCATGGG
---------ATTTGCATTT-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

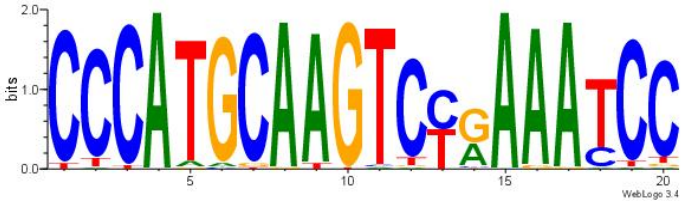

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

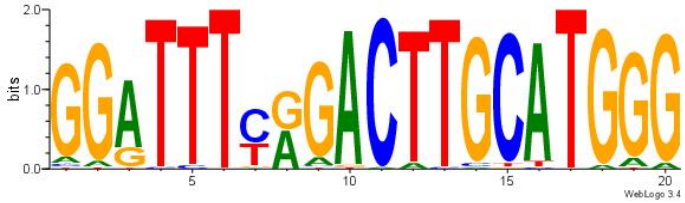

Dataset #: 1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0729746

Alignment:

```
MGAAGGGACTTGCCTTGT
-------ATTTGCATTT-
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

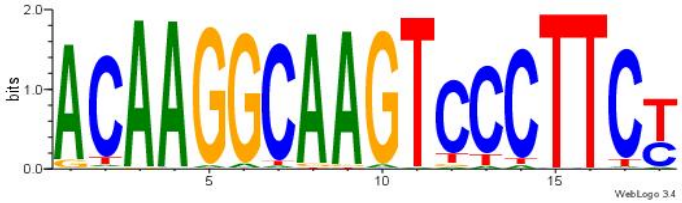

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

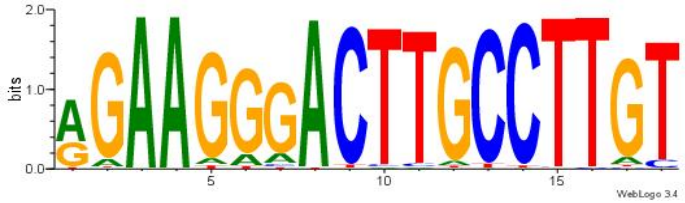

Dataset #:	1
Motif ID:	314
Motif name:	Motif 314
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.073976

Alignment:
GGAACGCACAT
-AAATGCAAAT

Original motif Consensus sequence: GGAACGCACAT

Reverse complement motif Consensus sequence: ATGTGCGTTCC

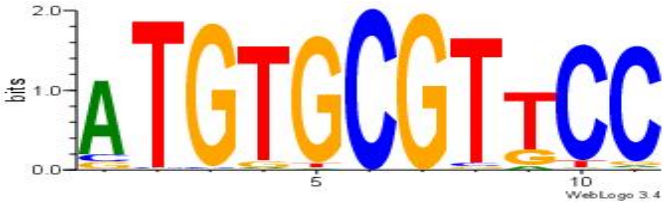

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.0754023

Alignment:
GAAHCAACCKAAKTGTCCAT
AAATGCAAAT----------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

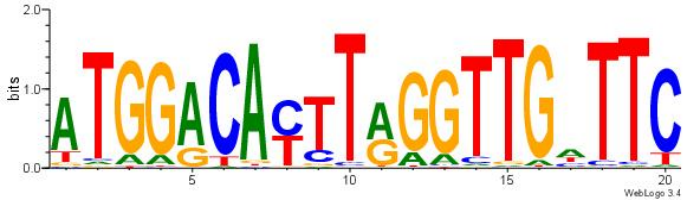

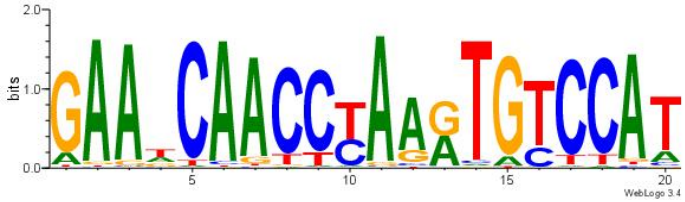

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0763856

Alignment:

```
AGAAAGGCATGTGAAAA
--AAATGCAAAT-----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

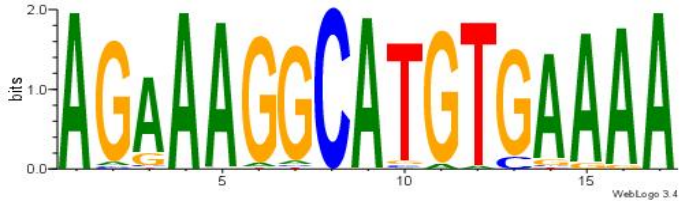

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

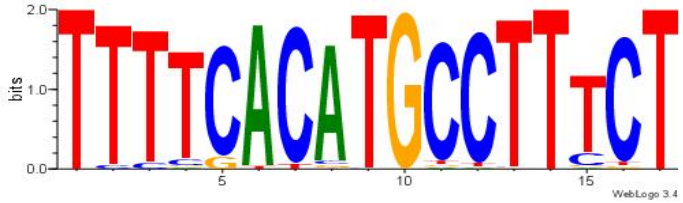

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0766486

Alignment:

```
TTCAMTCATGATTTGGCTCT
----------ATTTGCATTT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

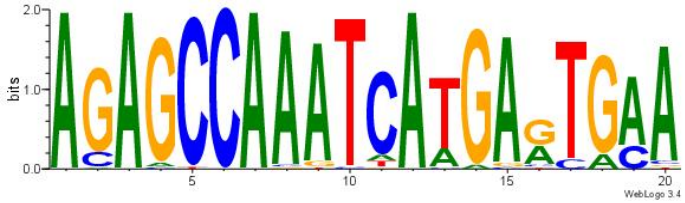

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

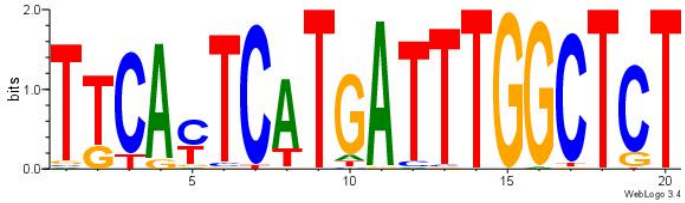

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0769216

Alignment:
CAMTTAGCATAATG
--ATTTGCATTT--

Original motif Consensus sequence: CATTATGCTAARTG

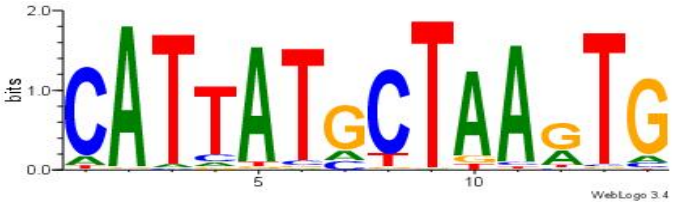

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

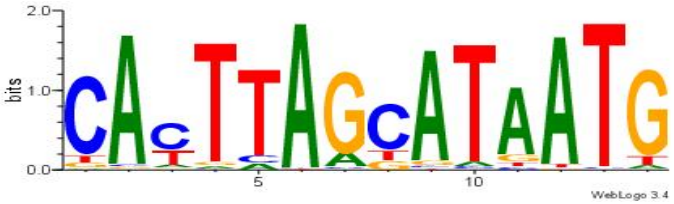

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0776474

Alignment:
CCCYAATACTGCGCTTTTC
--------ATTTGCATTT-

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

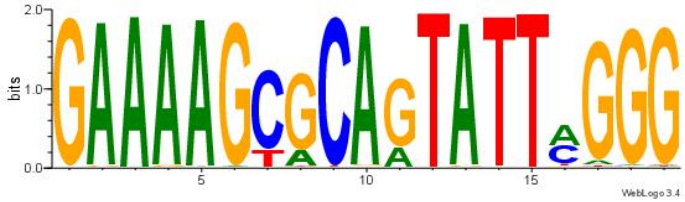

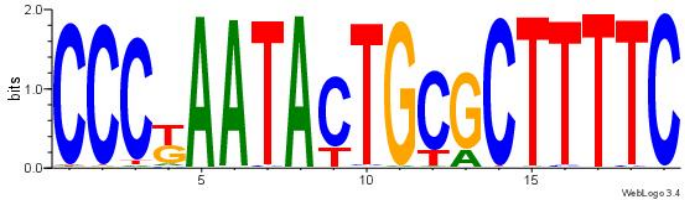

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.078254

Alignment:

```
TAAAAGACTACAWATTGGGT
-----AAATGCAAAT-----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

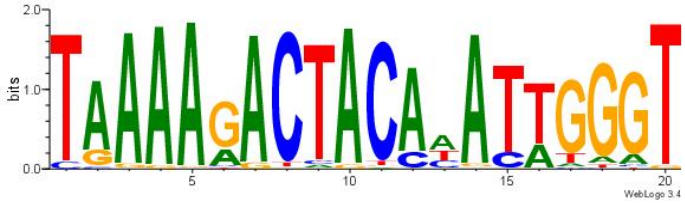

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

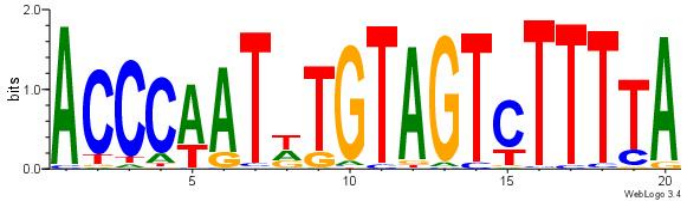

Dataset #:	1

Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0788693

Alignment:

```
CATCTGTAAAAT
-AAATGCAAAT-
```

Original motif Consensus sequence: CATCTGTAAAAT

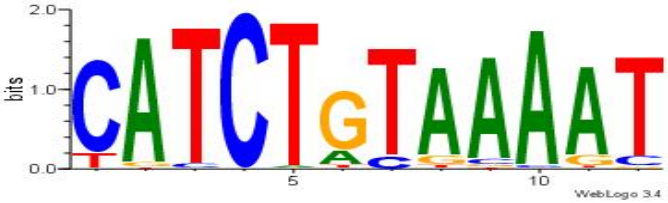

Reverse complement motif Consensus sequence: ATTTTACAGATG

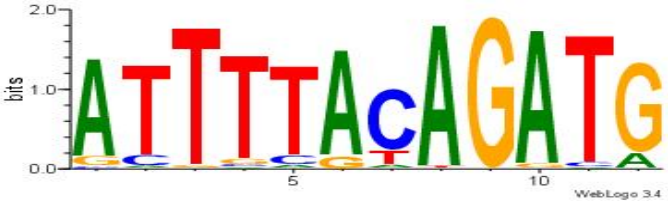

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.079032

Alignment:
TYTGTCMTTTTGTGACTGGC
ATTTGCATTT----------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

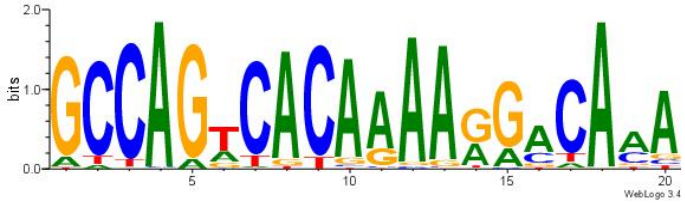

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

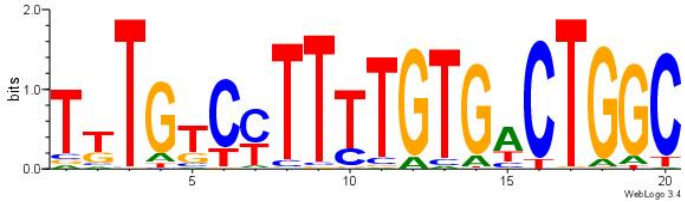

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0800089

Alignment:
CACATGGAAGC
-AAATGCAAAT

Original motif Consensus sequence: CACATGGAAGC

Reverse complement motif Consensus sequence: GCTTCCATGTG

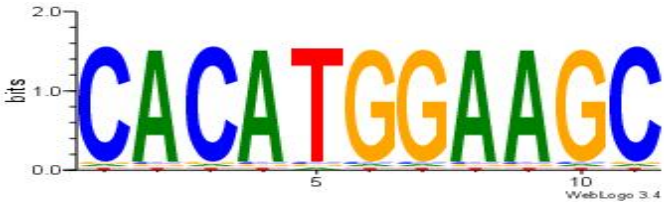

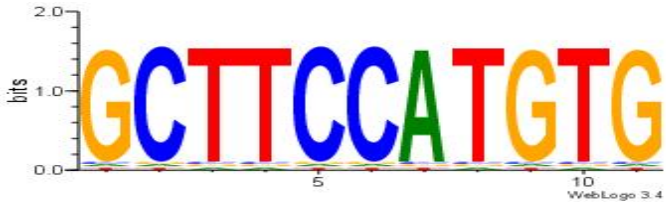

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0800125

Alignment:

```
AGTTGTAATTGGGAGACTT
ATTTGCATTT---------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

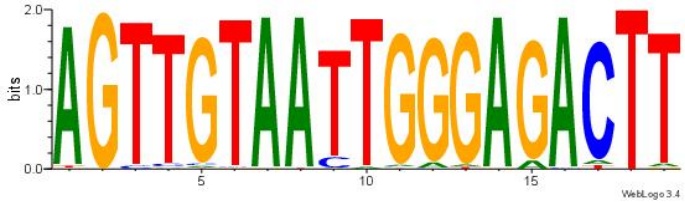

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

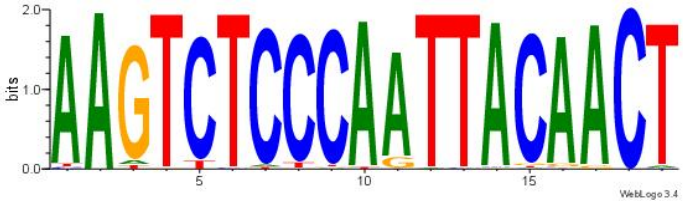

Dataset #: 1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0810502

Alignment:

```
KACATTGATTTTGTATC
--ATTTGCATTT-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

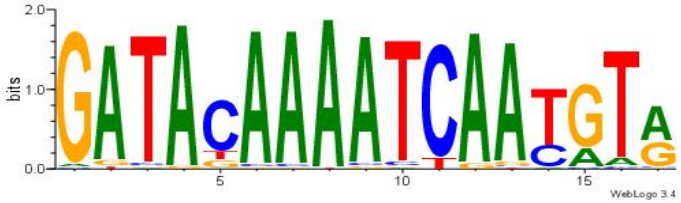

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

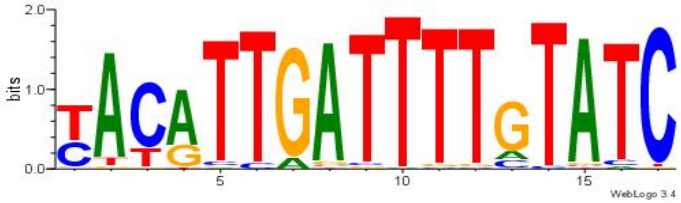

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0817552

Alignment:
AAATCTTAAAGCTC
AAATGCAAAT----

Original motif Consensus sequence: AAATCTTAAAGCTC

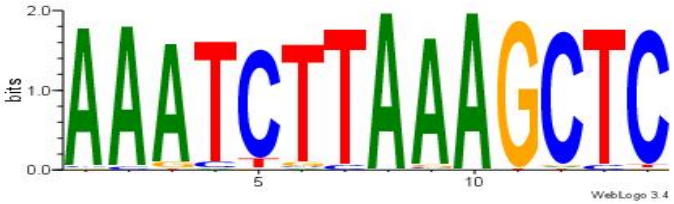

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

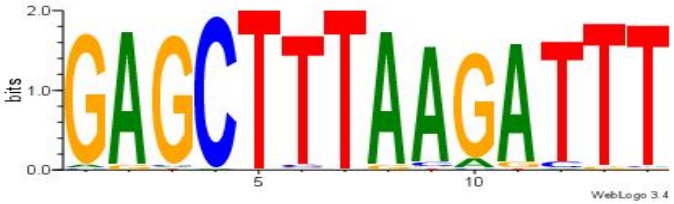

Dataset #: 1
Motif ID: 41
Motif name: Motif 41
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0817913

Alignment:
TTTTTTTMTTT
-ATTTGCATTT

Original motif Consensus sequence: AAAYAAAAAAA

Reverse complement motif Consensus sequence: TTTTTTTMTTT

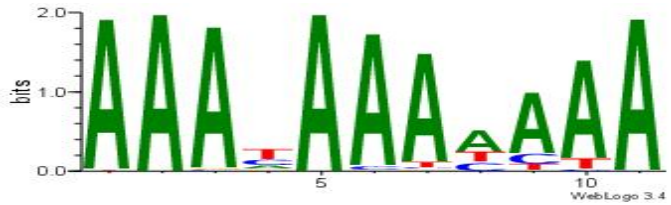

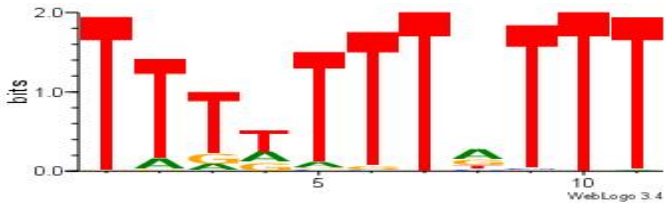

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0823585

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AAATGCAAAT----------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

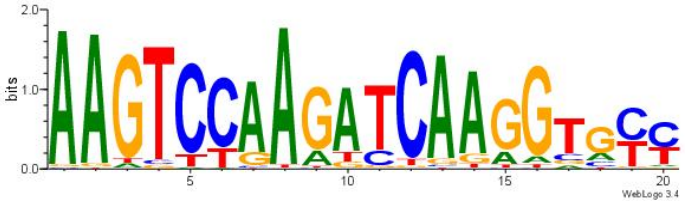

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

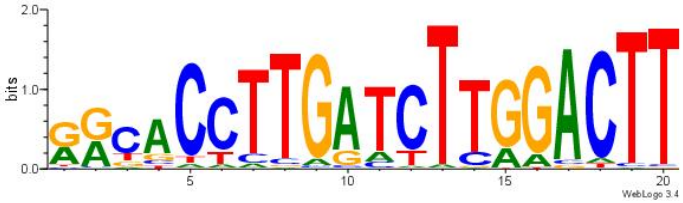

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0824864

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-----ATTTGCATTT-----
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

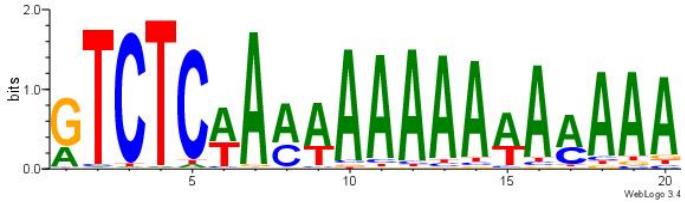

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

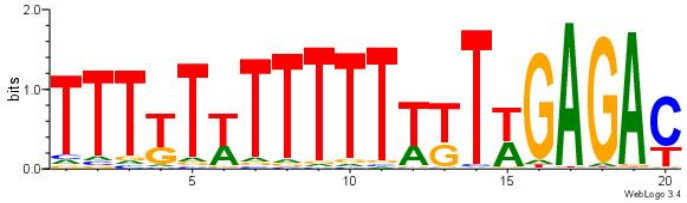

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0829118

Alignment:
TGATACCCAGGCAAACAG
------AAATGCAAAT--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

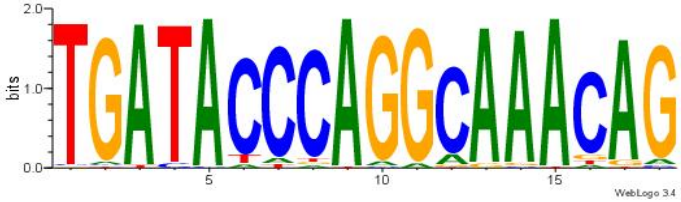

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

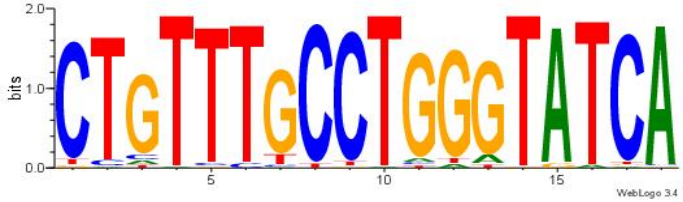

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0838973

Alignment:
AAAATCACAAGCATTCCTAT
------ATTTGCATTT----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

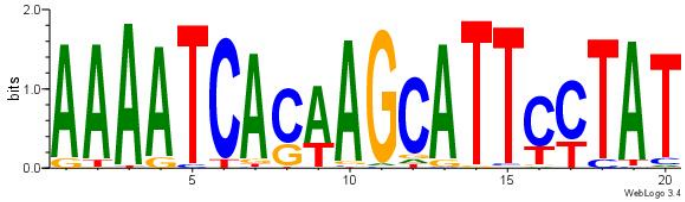

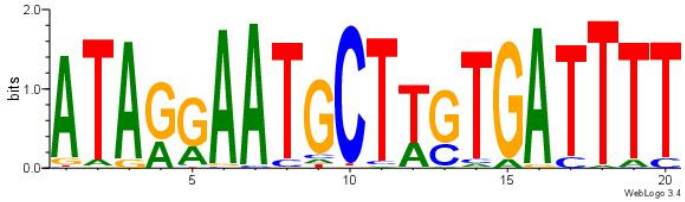

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0839858

Alignment:

```
CAGTCTGTGTCTTTTAATT
----ATTTGCATTT-----
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

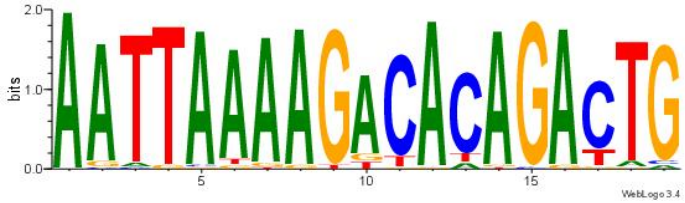

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

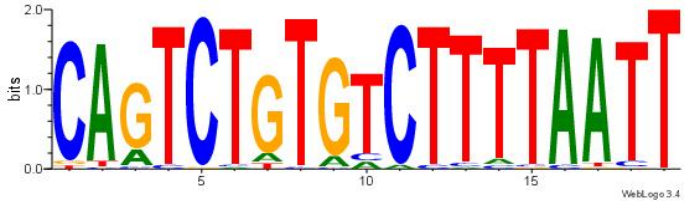

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0846365

Alignment:

```
HAGTGGKATTGCTGGATCAT
-ATTTGCATTT---------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

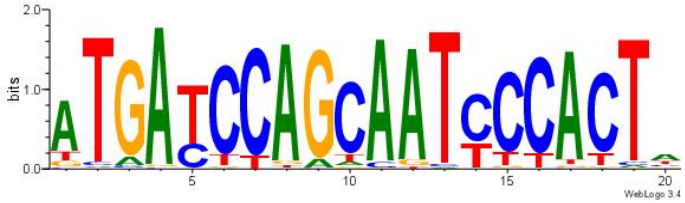

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

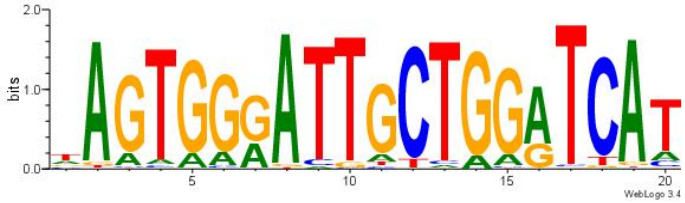

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10

Similarity score: 0.0849906

Alignment:
AGATGCCAGCCAGAGCTCT
AAATGCAAAT---------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

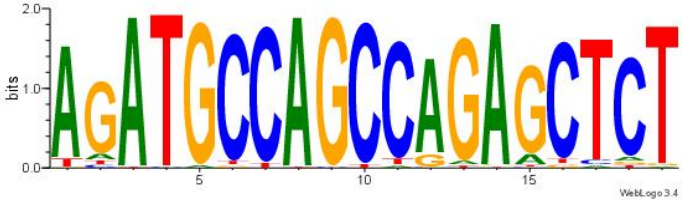

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

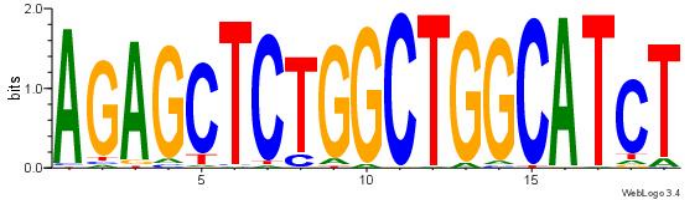

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0853029

Alignment:
CTATTGTGAATARTGCTGC
-AAATGCAAAT--------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

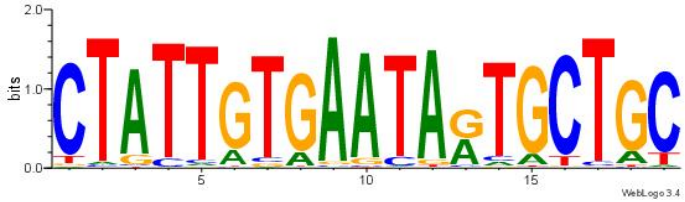

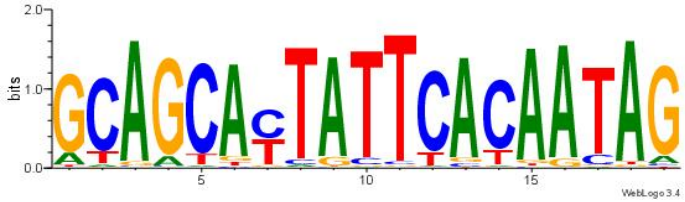

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0854626

Alignment:

```
AAAATGTGGTAYATAYAYAC
----------AAATGCAAAT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

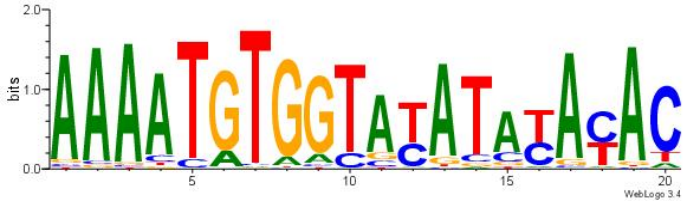

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

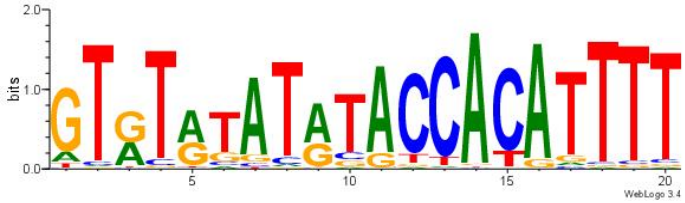

Dataset #: 1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.086159

Alignment:

```
ACACACAYACACACACACA
----AAATGCAAAT-----
```

Original motif Consensus sequence: ACACACAYACACACACACA

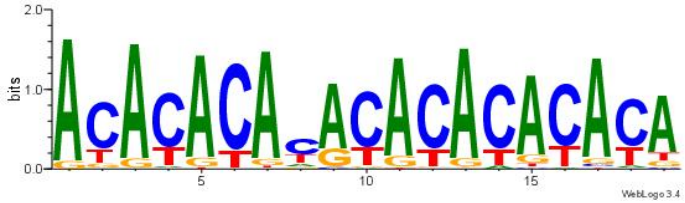

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

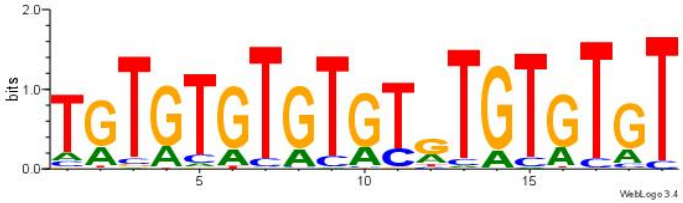

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0861701

Alignment:
ACTTTGGACTGTGGACTTTT
-ATTTGCATTT---------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

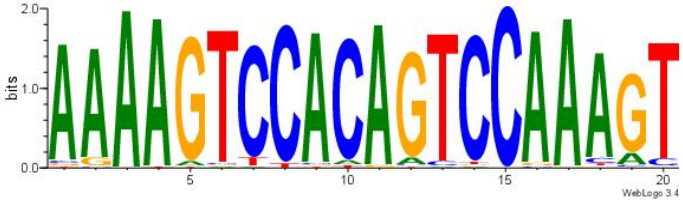

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

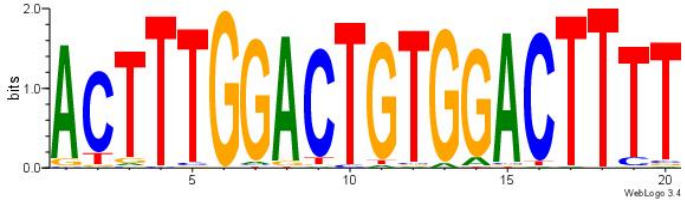

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0866224

Alignment:
TCCTATGAGAATCTAATG
------AAATGCAAAT--

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

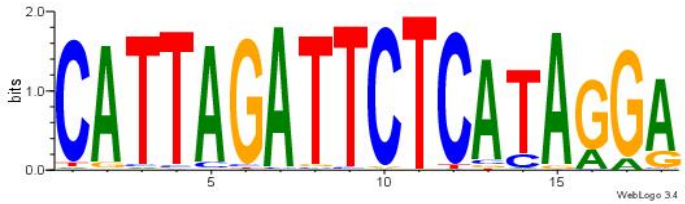

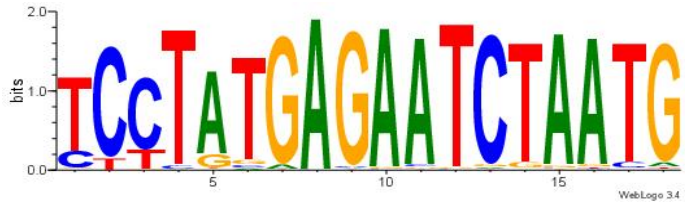

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.087226

Alignment:

```
GAGSTTGCAGTGAGC
--ATTTGCATTT---
```

Original motif Consensus sequence: GCTCACTGCAASCTC

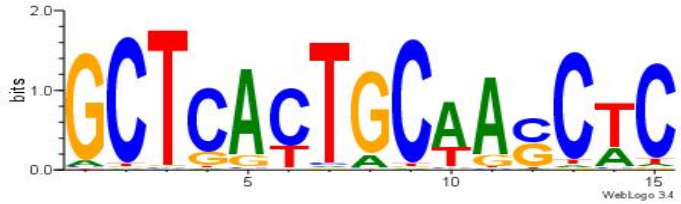

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

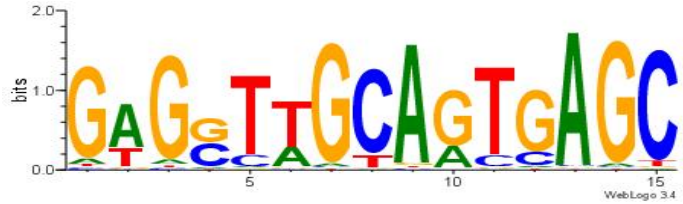

Dataset #:	1
Motif ID:	191

Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0872333

Alignment:

```
GCTGCARTCTCGGCACTTT
--------ATTTGCATTT-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

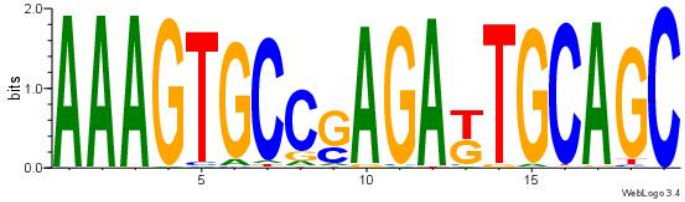

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

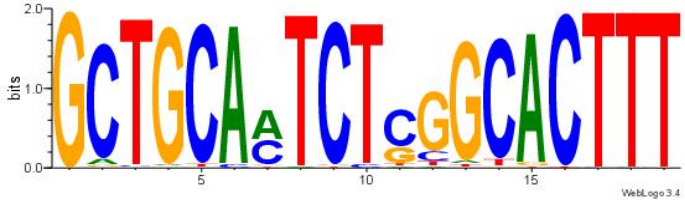

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0875219

Alignment:
ATGGAATAYTATTCAGCCAT
---AAATGCAAAT-------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

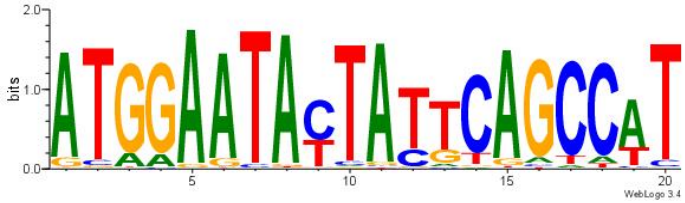

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

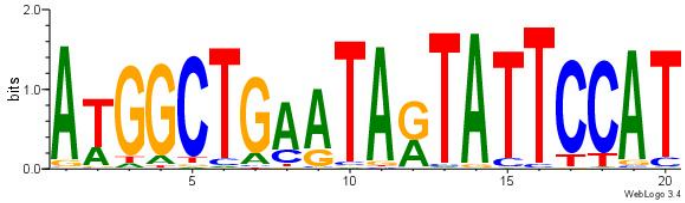

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0875608

Alignment:
TCCAAATGGGAGAAATTGGC
---AAATGCAAAT-------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

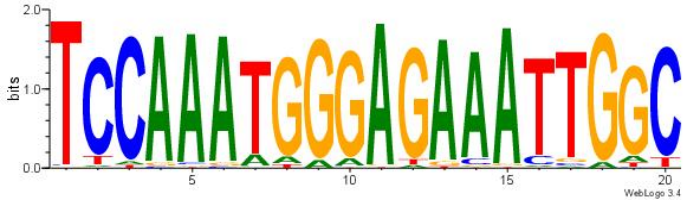

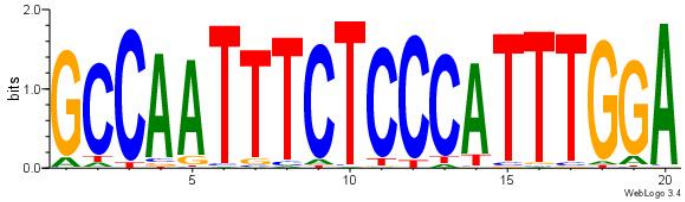

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0876871

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--AAATGCAAAT--------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

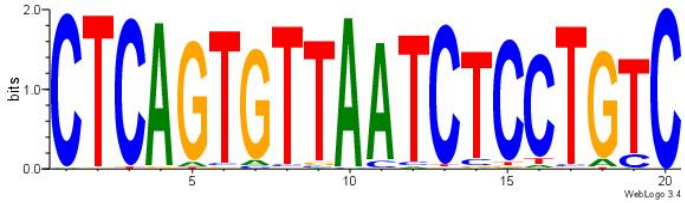

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

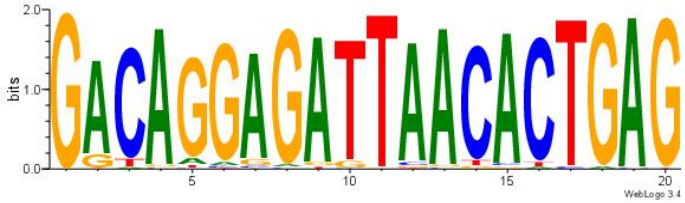

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0886169

Alignment:

```
ATGTGGAGGTGGAAGACAGT
ATTTGCATTT----------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

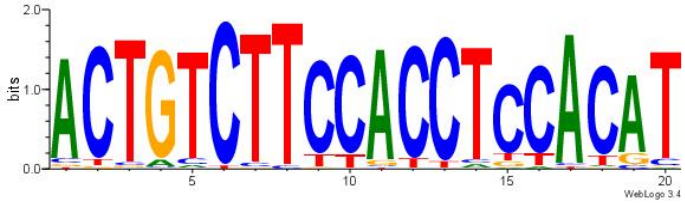

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

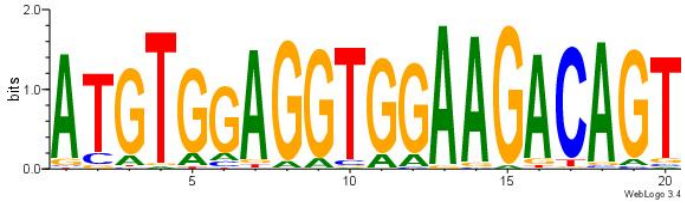

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.089002

Alignment:
TTATTTCACTT
-ATTTGCATTT

Original motif Consensus sequence: AAGTGAAATAA

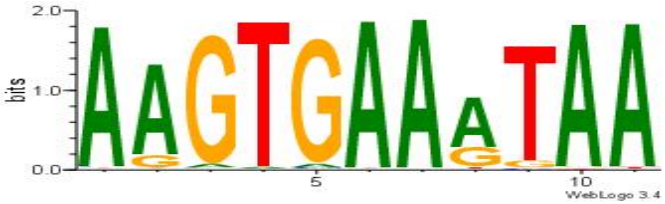

Reverse complement motif Consensus sequence: TTATTTCACTT

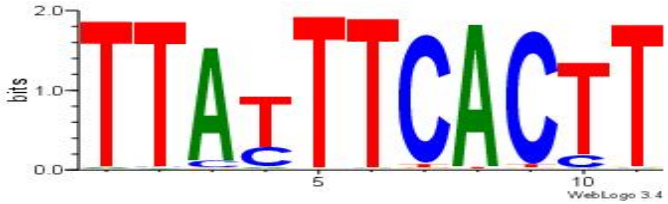

Dataset #: 1
Motif ID: 240
Motif name: Motif 240
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0891694

Alignment:
GGGACWGCACAT
--AAATGCAAAT

Original motif Consensus sequence: ATGTGCWGTCCC

Reverse complement motif Consensus sequence: GGGACWGCACAT

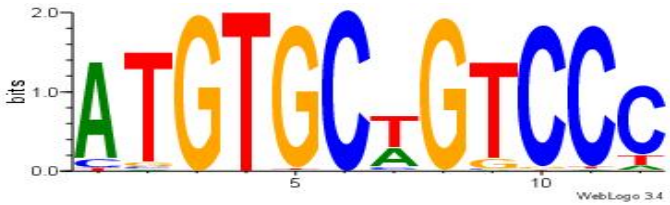

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0894657

Alignment:

```
CCCAAATCTCATSTTGAAT
----ATTTGCATTT-----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

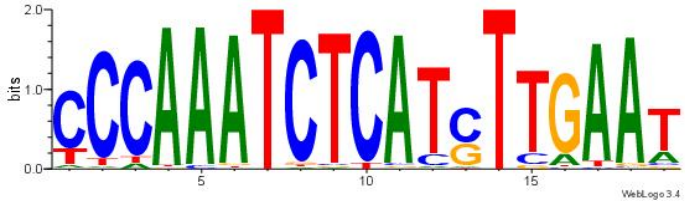

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

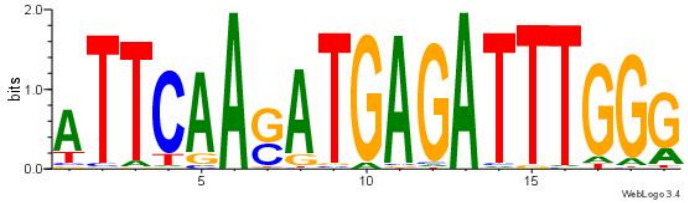

Dataset #: 1

Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0898747

Alignment:

```
ATGTTGTAGCATGT
----ATTTGCATTT
```

Original motif Consensus sequence: ACATGCTACAACAT

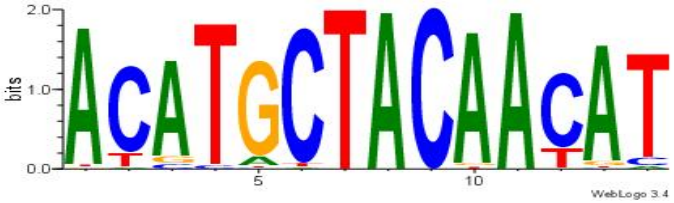

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

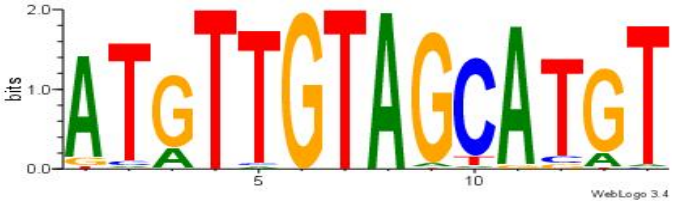

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0903931

Alignment:
CAAGGGTATAYGAGTAGCTG
-AAATGCAAAT---------

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

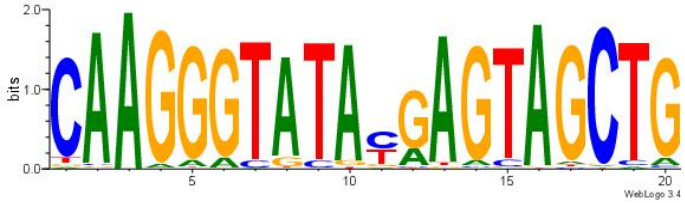

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

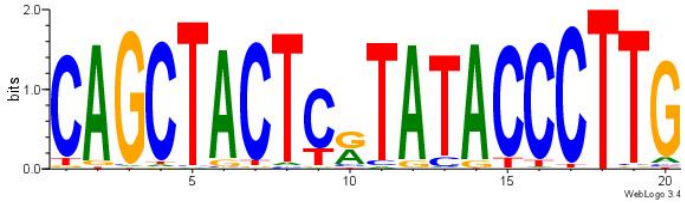

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0904867

Alignment:
ACCTGGAAAATCGGGTCACT
AAATGCAAAT----------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

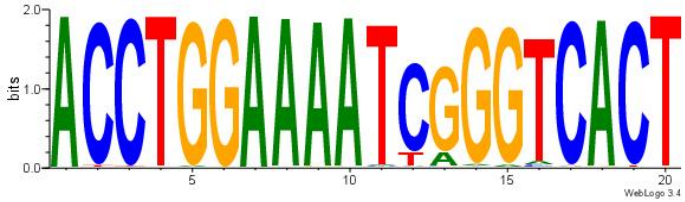

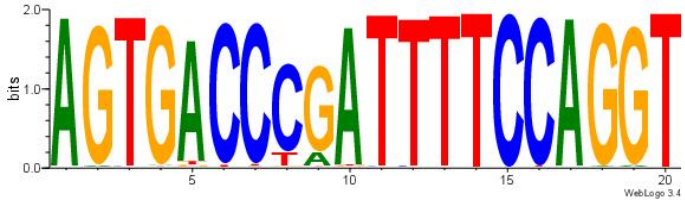

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0911249

Alignment:

```
AATGAKATCATGTCYTTTGC
--------ATTTGCATTT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

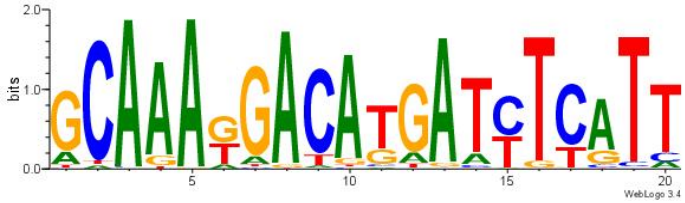

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

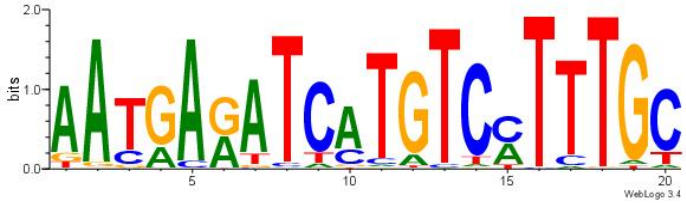

Dataset #: 1 Motif ID: 186 Motif name: Motif 186

Original motif Consensus sequence: AAATATTT

Reverse complement motif Consensus sequence: AAATATTT

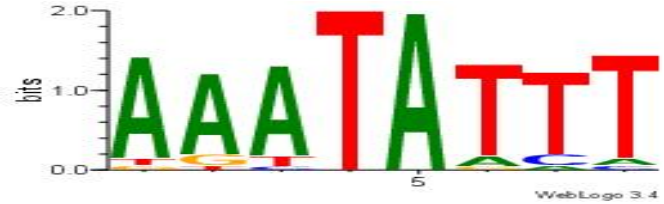

Best Matches for Significant Motif ID 186 (Highest to Lowest)

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0174942

Alignment:

```
AATAAATATTT
AAATATTT---
```

Original motif Consensus sequence: AAATATTTATT

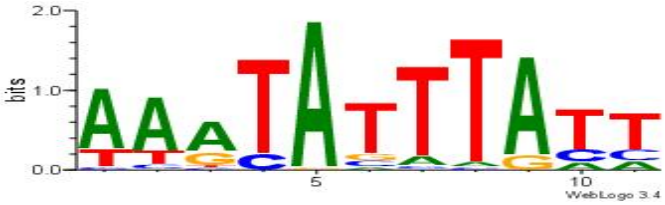

Reverse complement motif Consensus sequence: AATAAATATTT

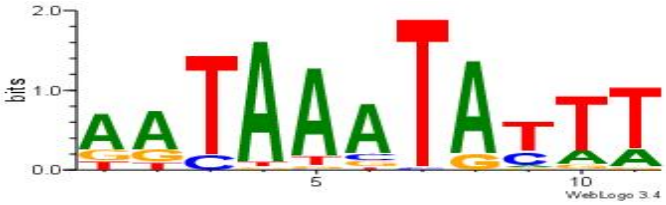

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0532506

Alignment:

```
AGGTATTTCTCCCACC
--------AAATATTT
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

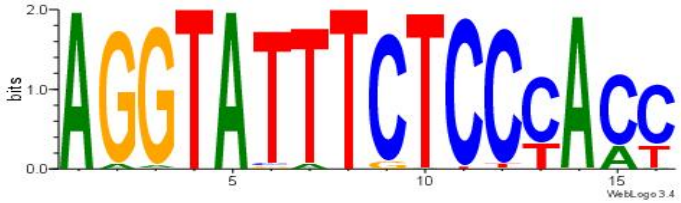

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

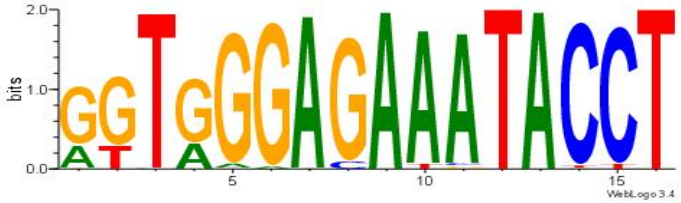

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 8
Similarity score: 0.055379

Alignment:
GCTAATATATCCCTCCC
--AAATATTT-------

Original motif Consensus sequence: GGGAGGGATATATTAGC

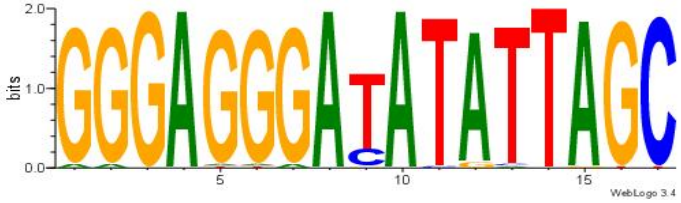

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

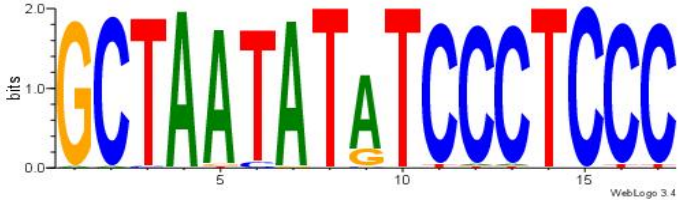

Dataset #: 1
Motif ID: 346
Motif name: Motif 346
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.060748

Alignment:
GAGCTTTAAGATTT
------AAATATTT

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

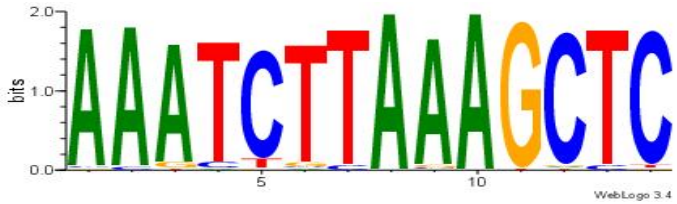

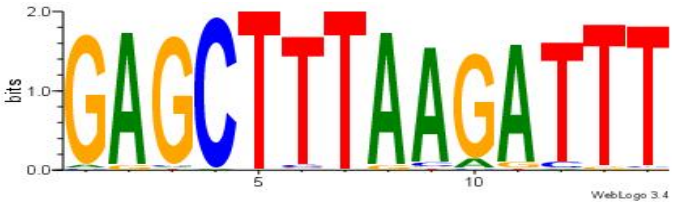

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0630537

Alignment:

```
AAAACCAGCAAGTTTTTAT
---------AAATATTT--
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

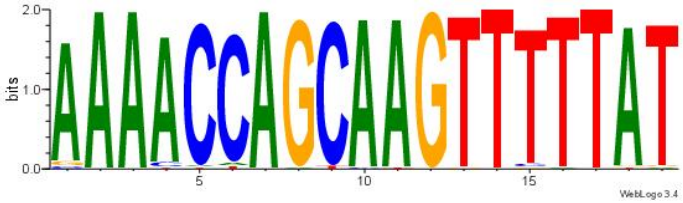

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

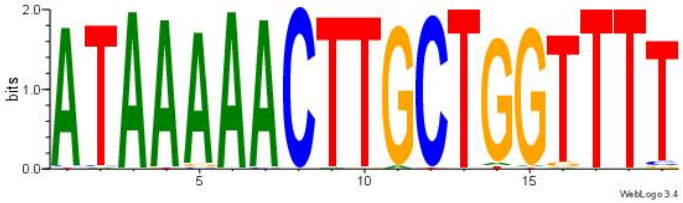

Dataset #: 1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0680577

Alignment:

```
GCAGCAMTATTCACAATAG
----AAATATTT-------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

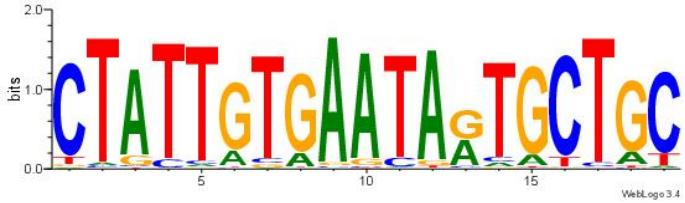

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

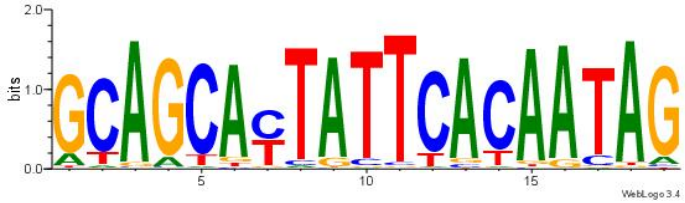

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8

Similarity score: 0.0694511

Alignment:
ATGGAATAYTATTCAGCCAT
---AAATATTT---------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

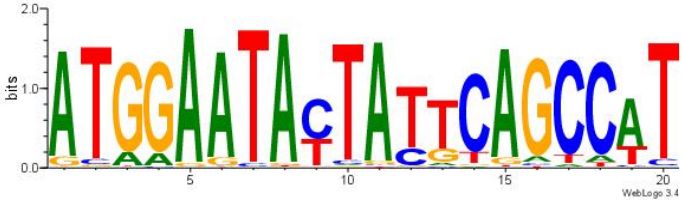

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

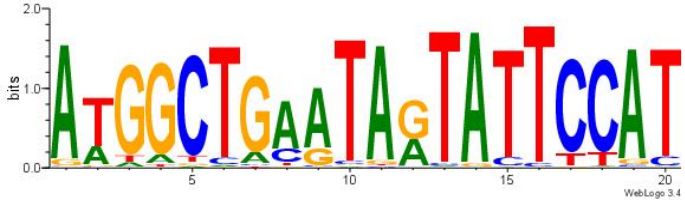

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 13
Number of overlap: 8
Similarity score: 0.0707206

Alignment:
AGGTCCTTCAGGAGGTATTC
----------AAATATTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

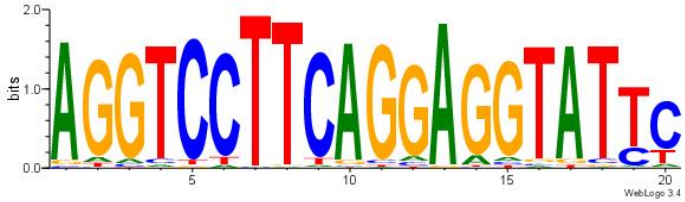

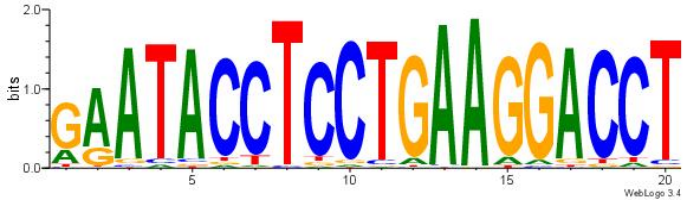

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0732278

Alignment:

```
TWTACCTATGTAACAAACCT
---AAATATTT---------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

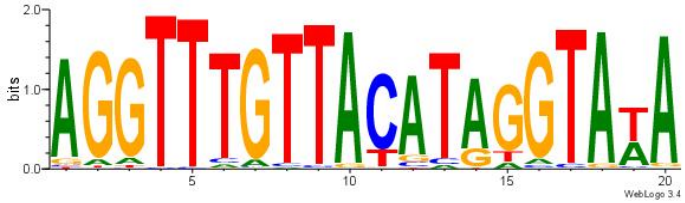

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

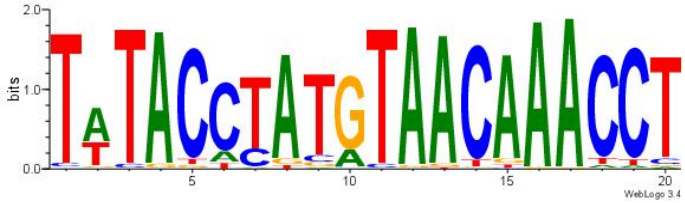

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.074561

Alignment:

```
GTTATTAATTGGCCTAATTT
--AAATATTT----------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

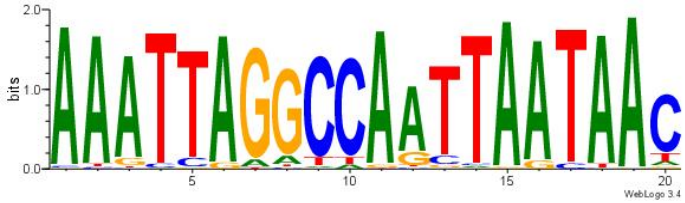

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8

Similarity score: 0.0756443

Alignment:
AGTGAGAACATRYRRTRTTT
----------AAATATTT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

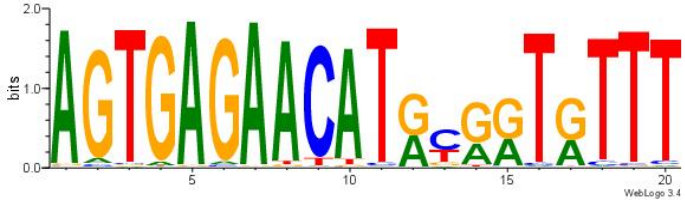

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

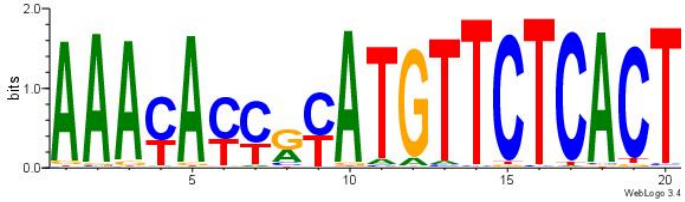

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0759902

Alignment:
CCCYAATACTGCGCTTTTC
--------AAATATTT---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

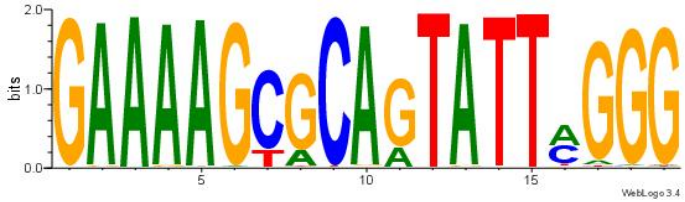

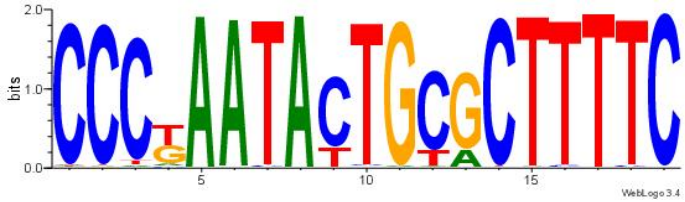

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0761364

Alignment:

```
GTKTMTATMTACCACATTTT
-AAATATTT-----------
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

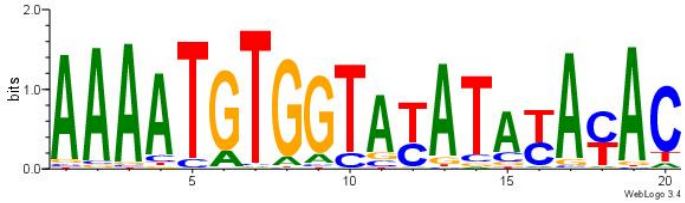

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

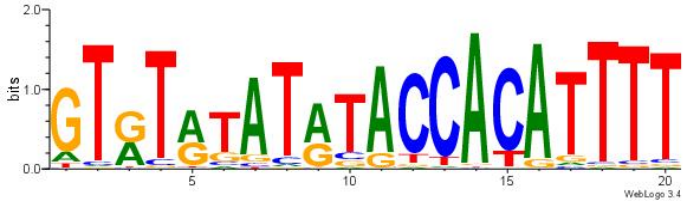

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0763673

Alignment:

```
TAAAAGACTACAWATTGGGT
---------AAATATTT---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

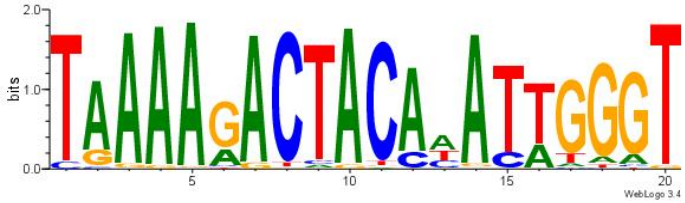

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

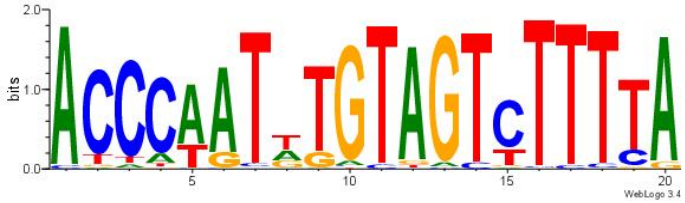

Dataset #:	1
Motif ID:	124
Motif name:	Motif 124
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8

Similarity score: 0.0773185

Alignment:
AAAATAAAA
-AAATATTT

Original motif Consensus sequence: AAAATAAAA

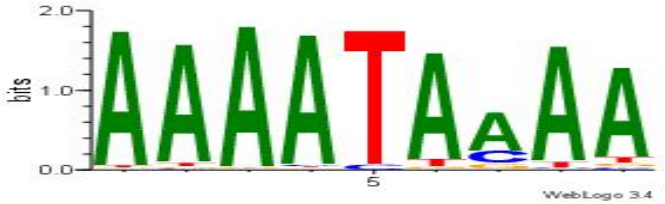

Reverse complement motif Consensus sequence: TTTTATTTT

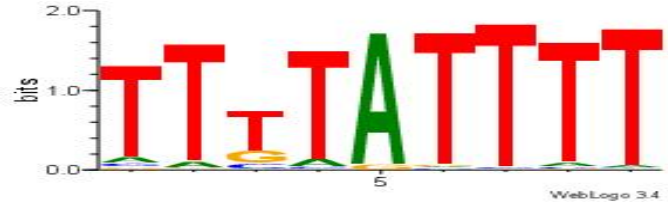

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.077803

Alignment:
ACACATCACAAAGCAGTTTC
----------AAATATTT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

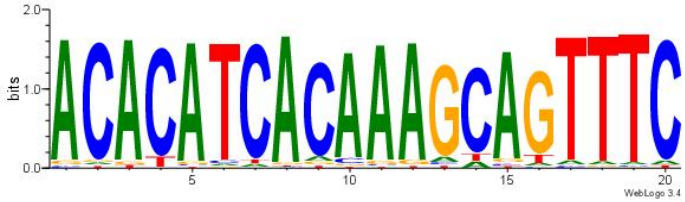

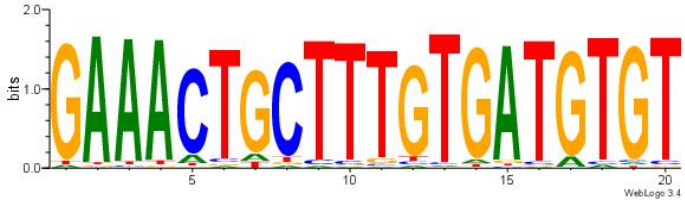

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8
Similarity score:	0.0781646

Alignment:

```
CAAGTTGACACATAAAATTA
------------AAATATTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

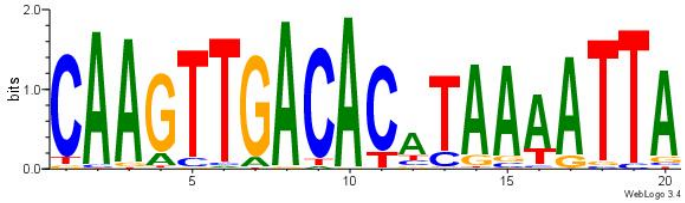

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

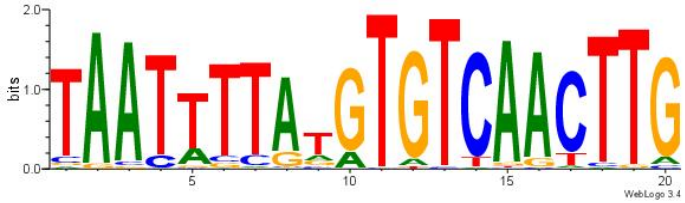

Dataset #: 1

Motif ID:	228
Motif name:	Motif 228
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0782201

Alignment:

```
CAAGTAGCT
-AAATATTT
```

Original motif Consensus sequence: AGCTACTTG

Reverse complement motif Consensus sequence: CAAGTAGCT

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0786434

Alignment:
AAAGCTGGAGCTATTATCTA
----------AAATATTT-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

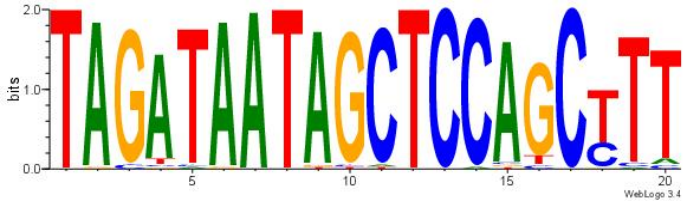

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

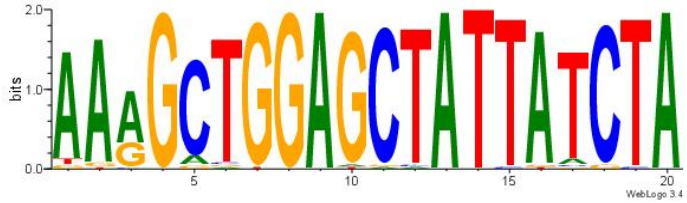

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.079779

Alignment:
CTGGCCCTCAATGGTTAAAC
--------AAATATTT----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

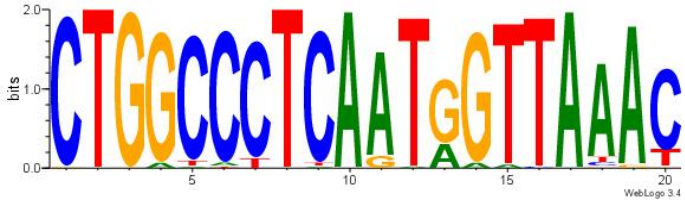

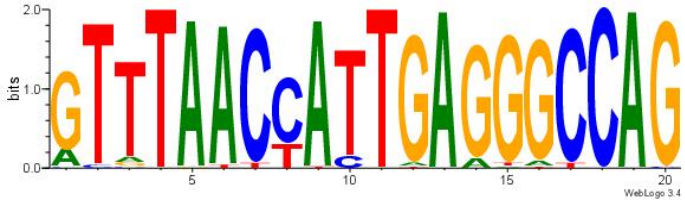

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0807933

Alignment:

```
GCCAATTTCTCCCATTTGGA
--AAATATTT----------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

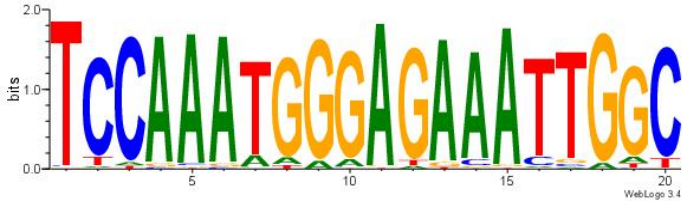

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

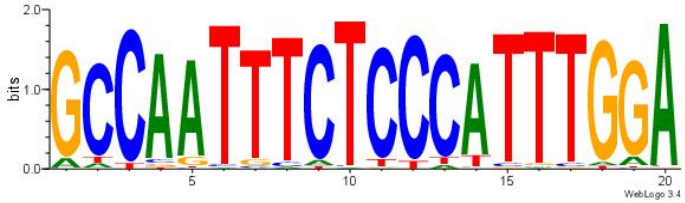

Dataset #: 1

Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0811587

Alignment:

```
ACACCTATTCGCACAC
--AAATATTT------
```

Original motif Consensus sequence: ACACCTATTCGCACAC

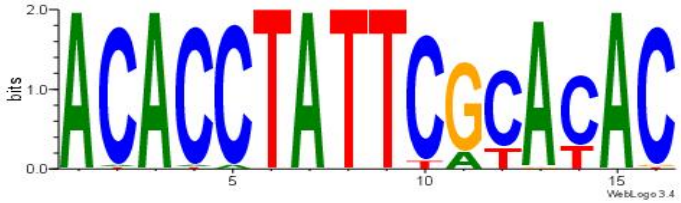

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

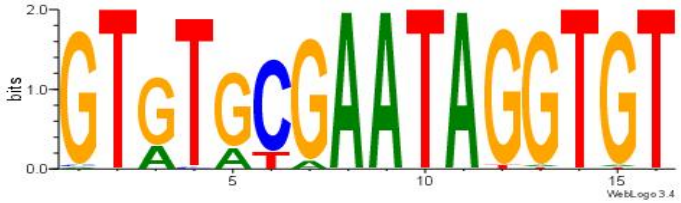

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8

Similarity score: 0.0815888

Alignment:
ATTCAASATGAGATTTGGG
--------AAATATTT---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

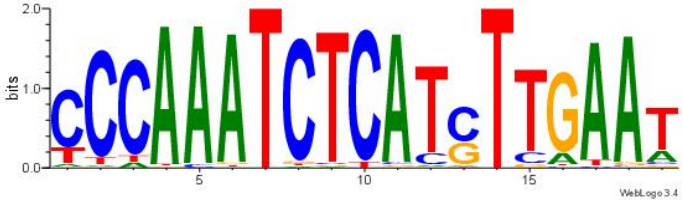

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

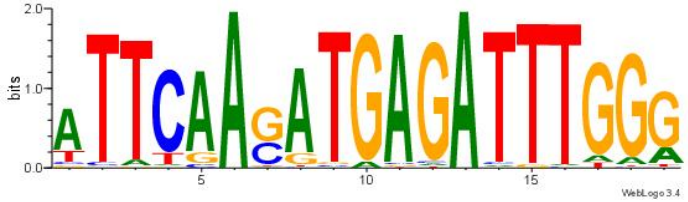

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0817214

Alignment:
AATGAGTTAAGACTTTG
AAATATTT---------

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

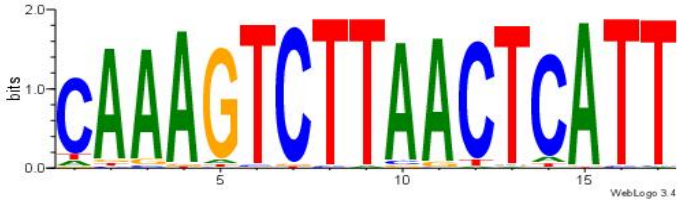

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0818839

Alignment:

```
CACCAGGAGATTATATCCCR
--------AAATATTT----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

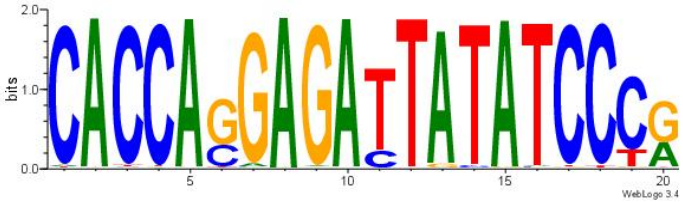

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

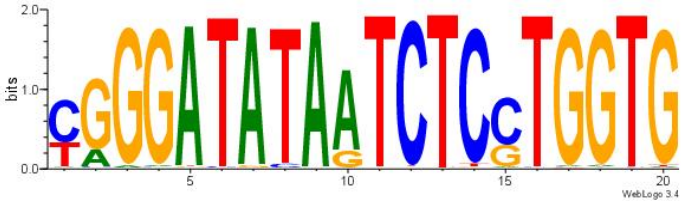

Dataset #:	1

Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.082283

Alignment:

```
TTTAACTCTGTGAG
---AAATATTT---
```

Original motif Consensus sequence: CTCACAGAGTTAAA

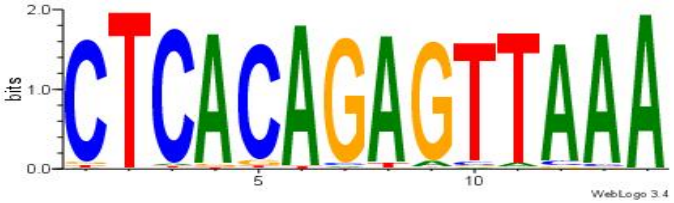

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

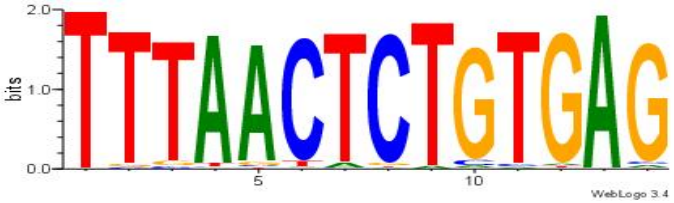

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.08373

Alignment:
AAGAGGTTTAATTGRCTCA
-AAATATTT----------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

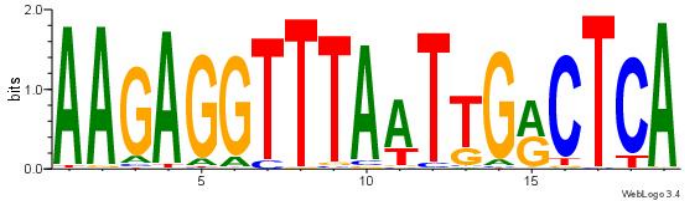

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

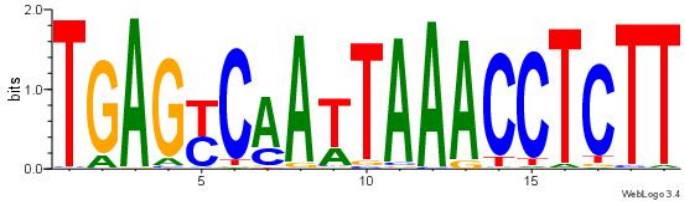

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0844496

Alignment:
AGTTCTTAAAGATGGT
-------AAATATTT-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

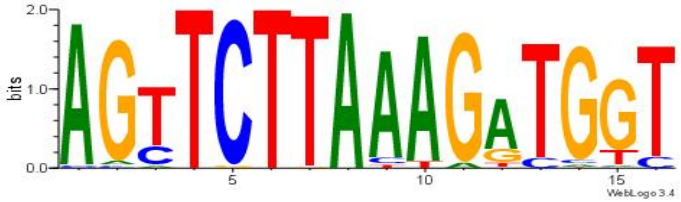

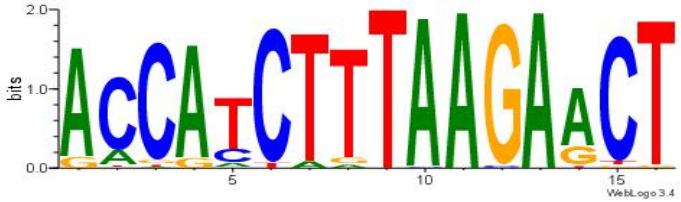

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0853656

Alignment:

```
AAAATCACAAGCATTCCTAT
--------AAATATTT----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

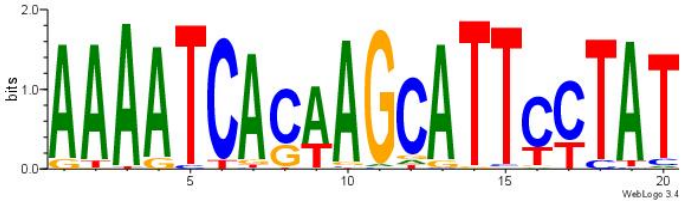

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

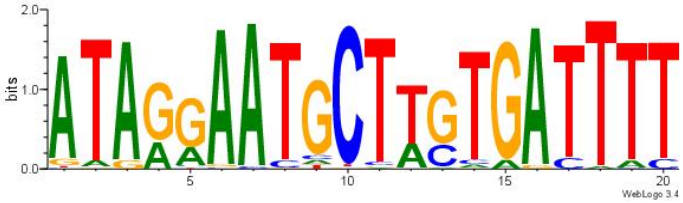

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0854304

Alignment:

```
AATGAKATCATGTCYTTTGC
AAATATTT------------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

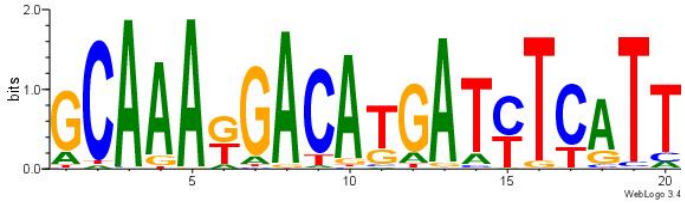

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

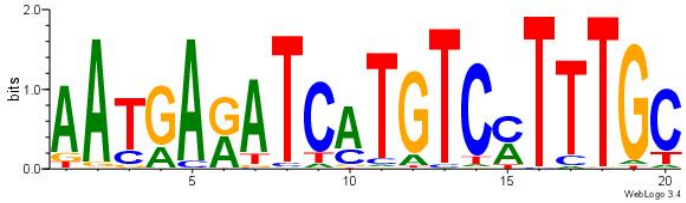

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8

Similarity score: 0.0855155

Alignment:
AGAGCCAAATCATGARTGAA
------AAATATTT------

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

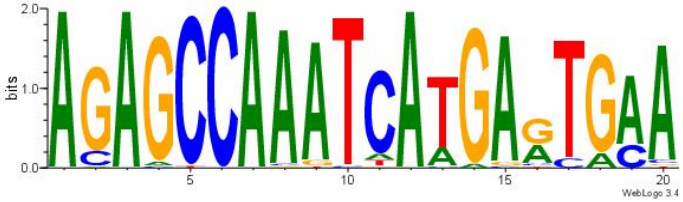

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

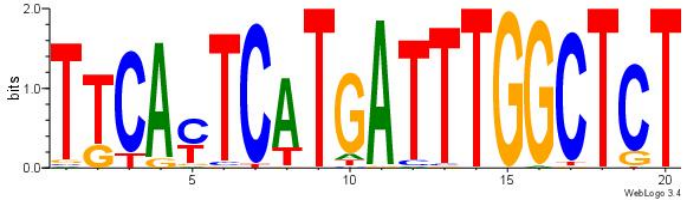

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 8
Similarity score: 0.0860301

Alignment:
CCTAGATTTCAGARGATGT
-AAATATTT----------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

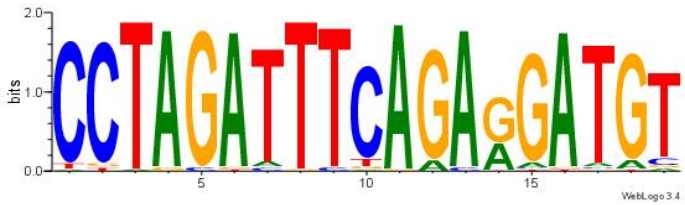

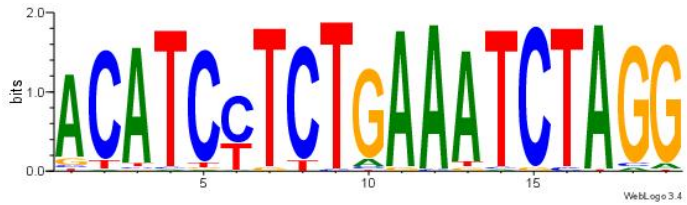

Dataset #:	1
Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0860811

Alignment:

```
TGATATGGTTTGG
--AAATATTT---
```

Original motif Consensus sequence: CCAAACCATATCA

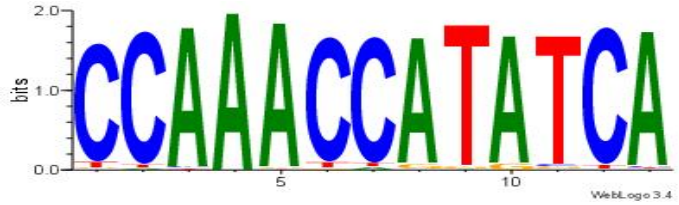

Reverse complement motif Consensus sequence: TGATATGGTTTGG

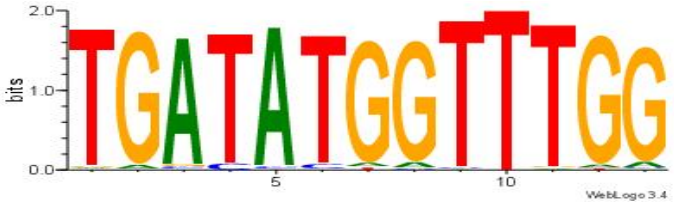

Dataset #:	1
Motif ID:	130

Motif name:	Motif 130
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.086711

Alignment:

```
ATMATAATAAT
-AAATATTT--
```

Original motif Consensus sequence: ATTATTATYAT

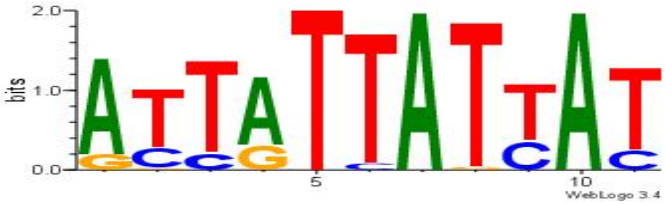

Reverse complement motif Consensus sequence: ATMATAATAAT

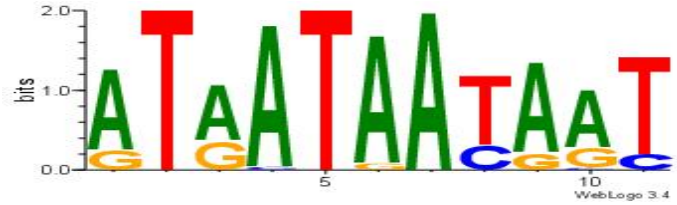

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0867684

Alignment:
TTTTTTTMTTT
---AAATATTT

Original motif Consensus sequence: AAAYAAAAAAA

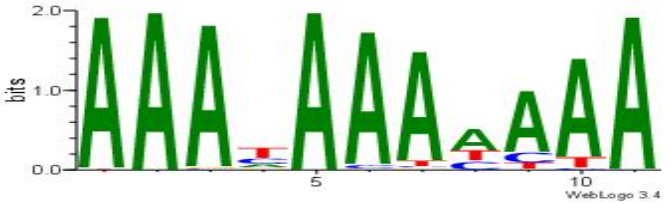

Reverse complement motif Consensus sequence: TTTTTTTMTTT

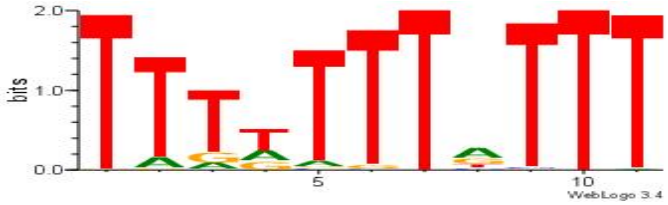

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0871933

Alignment:
KACATTGATTTTGTATC
---AAATATTT------

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

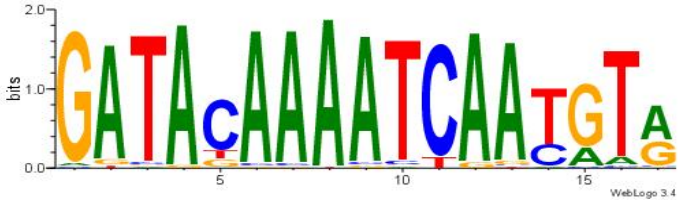

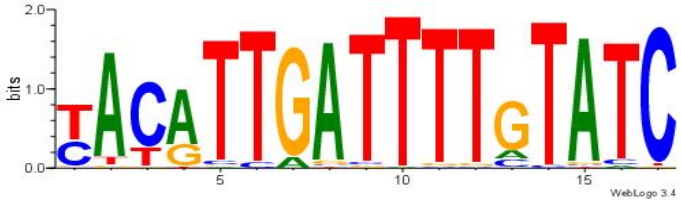

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0875157

Alignment:

```
TTGTTAAAAACTA
-----AAATATTT
```

Original motif Consensus sequence: TAGTTTTTAACAA

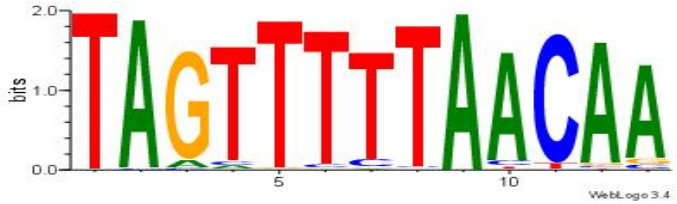

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

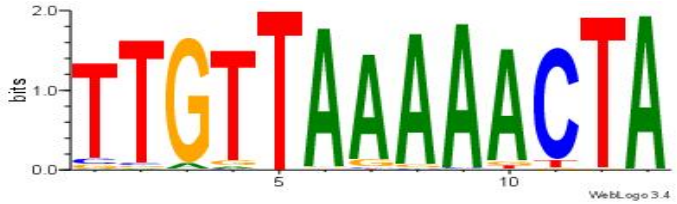

Dataset #:	1
Motif ID:	226

Motif name:	Motif 226
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0879075

Alignment:

```
AATAAACATGG
---AAATATTT
```

Original motif Consensus sequence: AATAAACATGG

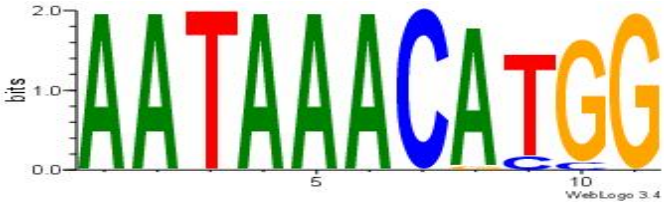

Reverse complement motif Consensus sequence: CCATGTTTATT

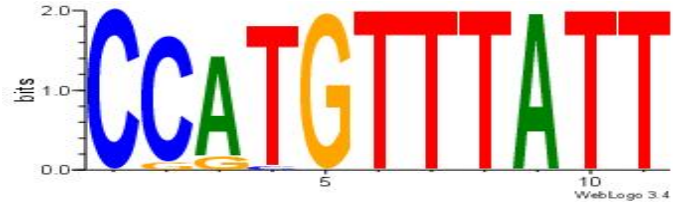

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0891223

Alignment:
CTAGACATAAAGGTTCTCCA
--------AAATATTT----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

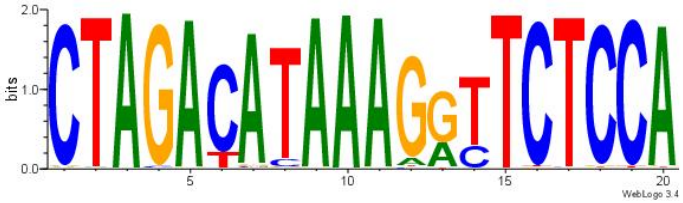

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

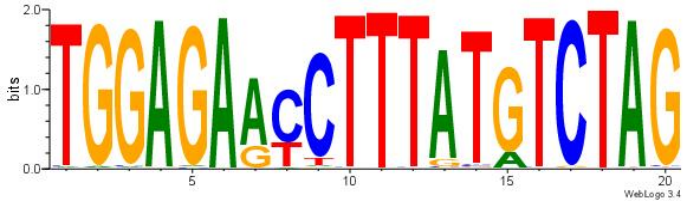

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0891841

Alignment:
TTTTATAGGATTTGGG
---AAATATTT-----

Original motif Consensus sequence: CCCAAATCCTATAAAA

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

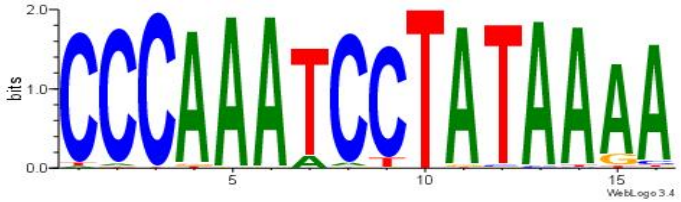

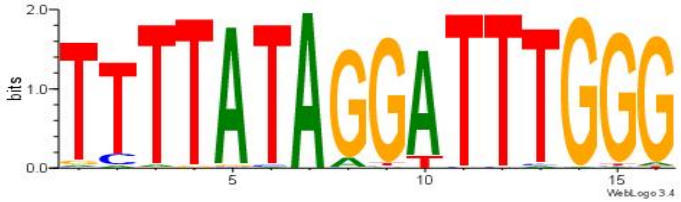

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.089985

Alignment:

```
GAAHCAACCKAAKTGTCCAT
------AAATATTT------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

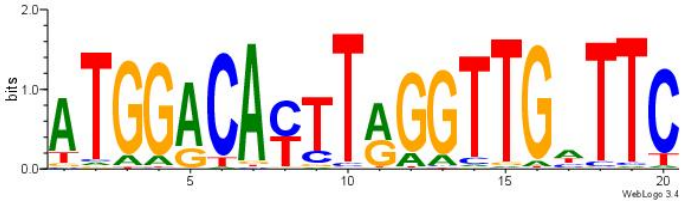

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

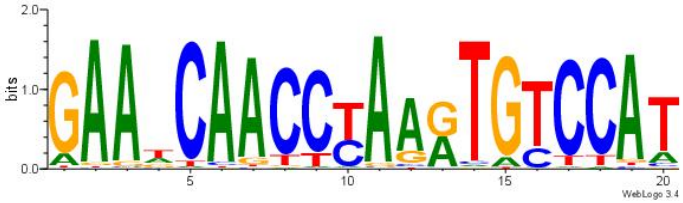

Dataset #: 1

Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0914746

Alignment:

```
AAGGGACATTKGAG
---AAATATTT---
```

Original motif Consensus sequence: AAGGGACATTKGAG

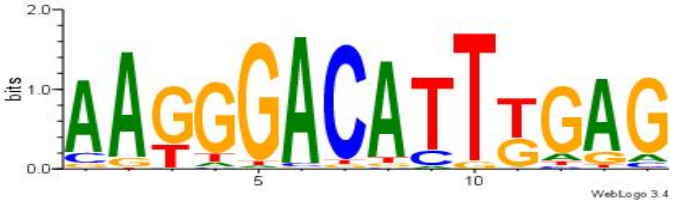

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

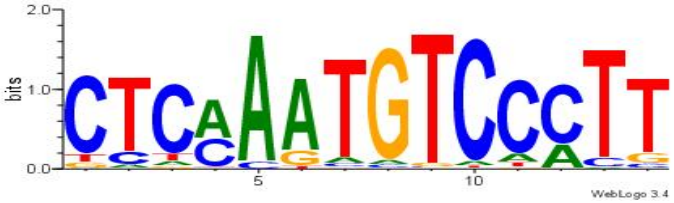

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0916033

Alignment:
GGGATTGTAAATACACCAAT
--------AAATATTT----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

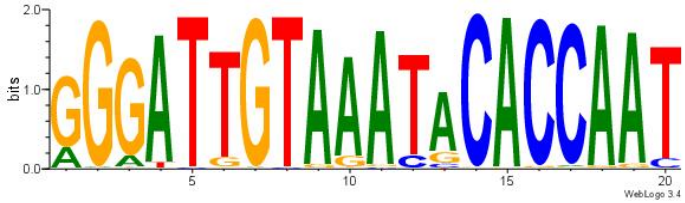

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0929977

Alignment:
TTTYTWTTTTTTYTWGAGAC
-----------AAATATTT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

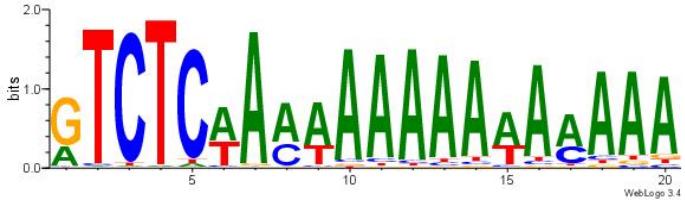

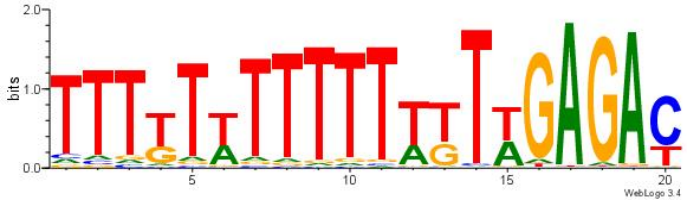

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0933557

Alignment:

```
GCACATGTAYCCYAGAACTT
--AAATATTT----------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

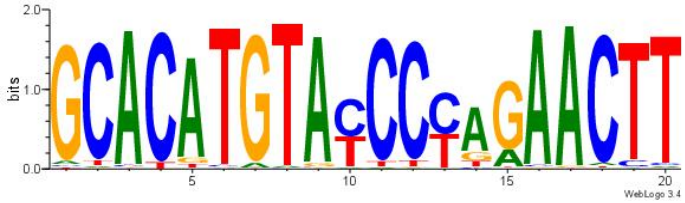

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

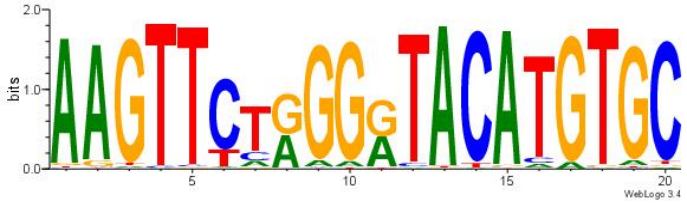

Dataset #:	1

Motif ID:	252
Motif name:	Motif 252
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0937331

Alignment:

```
AATTAGCYRGG
AAATATTT---
```

Original motif Consensus sequence: AATTAGCYRGG

Reverse complement motif Consensus sequence: CCMKGCTAATT

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0950861

Alignment:
AGTAGGTGCTCARTAAATRB
--AAATATTT----------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

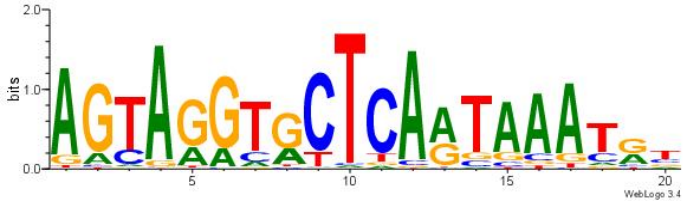

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

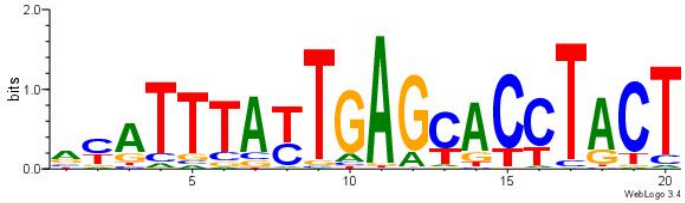

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0952979

Alignment:
CAAASCKGTCATAGGCCAT
-AAATATTT----------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

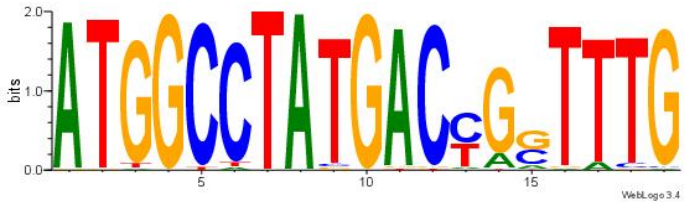

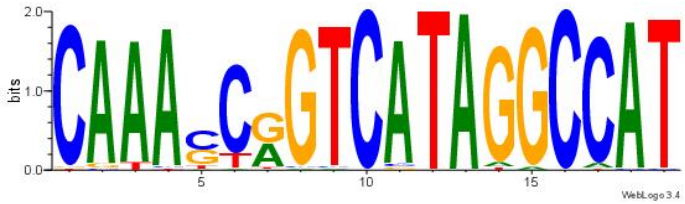

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0957169

Alignment:

```
GGRRMCAGATGT
----AAATATTT
```

Original motif Consensus sequence: ACATCTGYMMCC

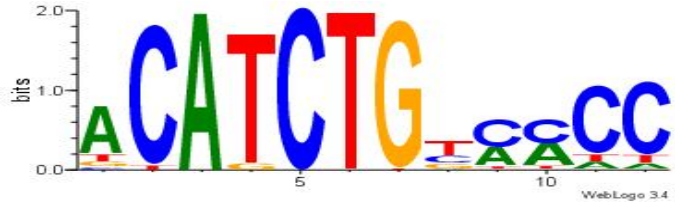

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	218

Motif name:	Motif 218
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0964748

Alignment:

```
AAGTWACTT
-AAATATTT
```

Original motif Consensus sequence: AAGTWACTT

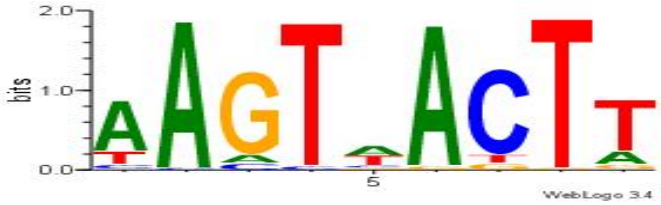

Reverse complement motif Consensus sequence: AAGTWACTT

Dataset #: 1 Motif ID: 124 Motif name: Motif 124

Original motif Consensus sequence: AAAATAAAA

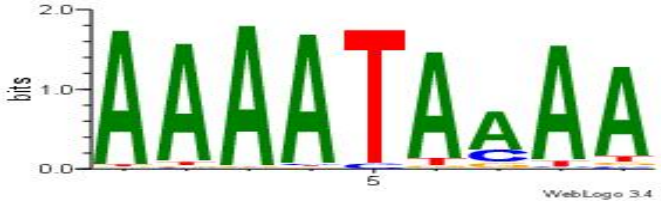

Reverse complement motif Consensus sequence: TTTTATTTT

Best Matches for Significant Motif ID 124 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.021153

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
----------AAAATAAAA-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

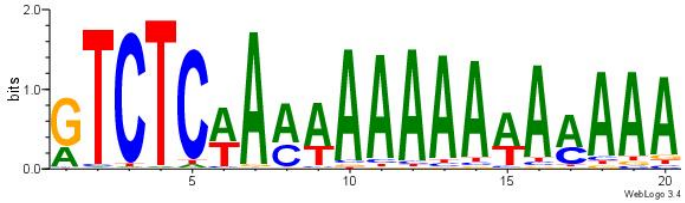

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

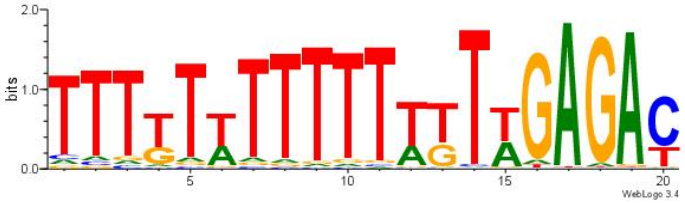

Dataset #:	1
Motif ID:	337
Motif name:	Motif 337
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 9
Similarity score: 0.0464816

Alignment:
TTTCTAGTTT
-TTTTATTTT

Original motif Consensus sequence: AAACTAGAAA

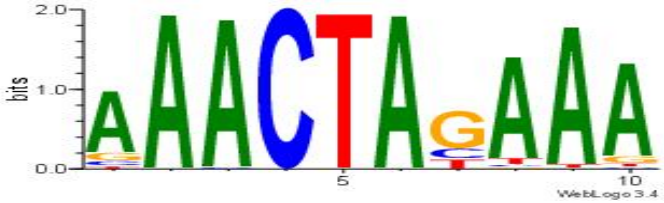

Reverse complement motif Consensus sequence: TTTCTAGTTT

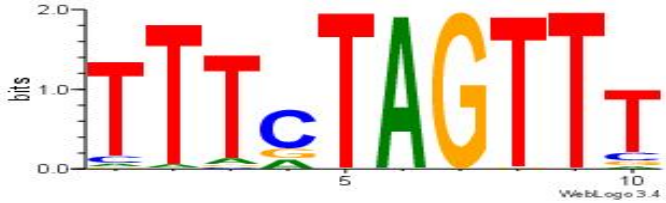

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0522862

Alignment:
KACATTGATTTTGTATC
---TTTTATTTT-----

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

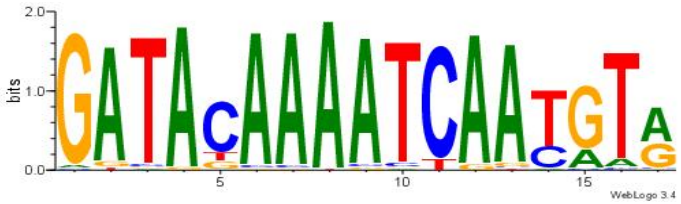

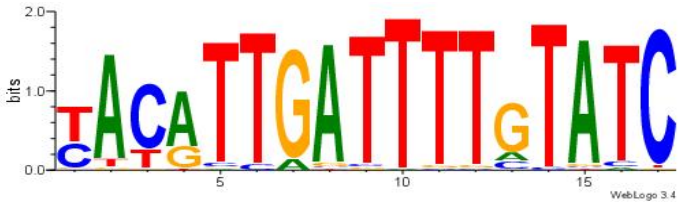

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0560355

Alignment:

```
AAAYAAAAAAA
-AAAATAAAA-
```

Original motif Consensus sequence: AAAYAAAAAAA

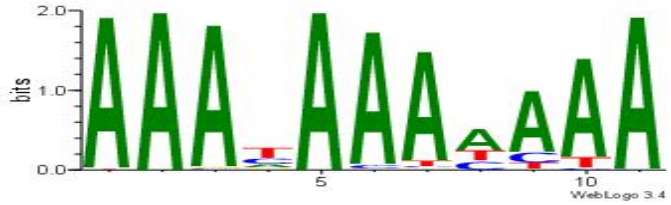

Reverse complement motif Consensus sequence: TTTTTTTMTTT

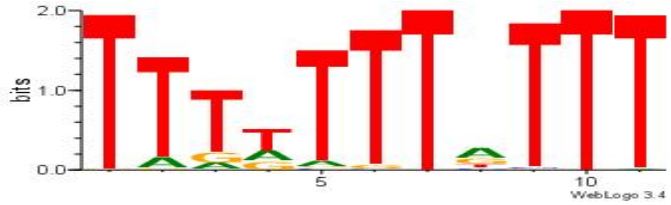

Dataset #:	1
Motif ID:	254

Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0620817

Alignment:

```
ATAGGAATGCTTGTGATTTT
-----------TTTTATTTT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

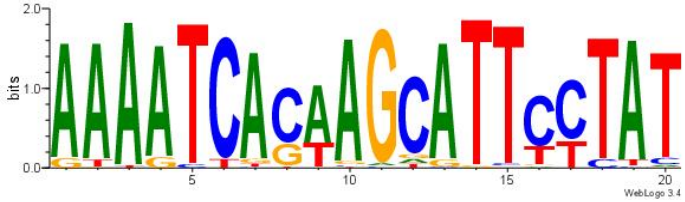

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

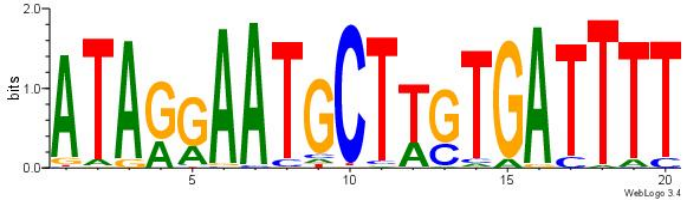

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0642345

Alignment:
TTYTTGTTGTTGTTGTT
-TTTTATTTT-------

Original motif Consensus sequence: AACAACAACAACAAMAA

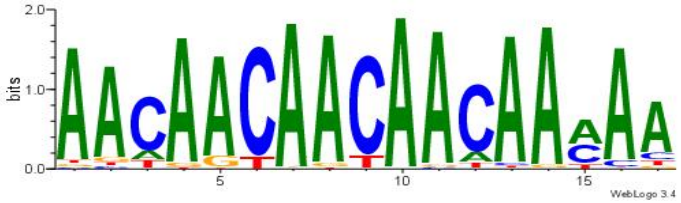

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

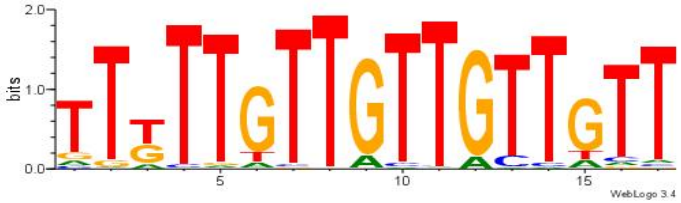

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0688524

Alignment:
CAGTCTGTGTCTTTTAATT
------TTTTATTTT----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

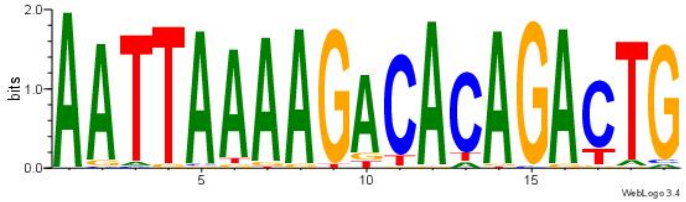

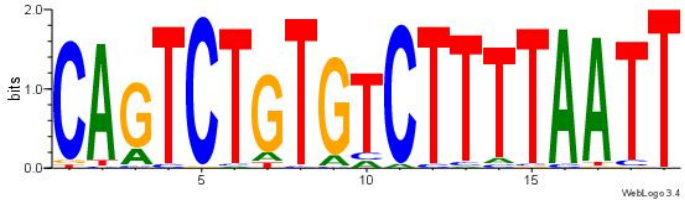

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0691995

Alignment:

```
CAAACTGCAAG
-AAAATAAAA-
```

Original motif Consensus sequence: CAAACTGCAAG

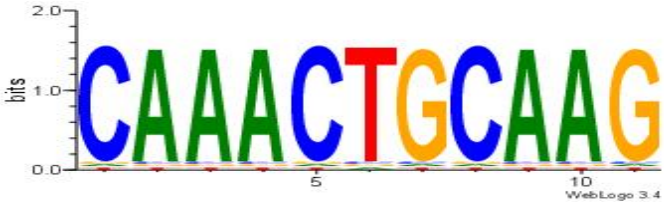

Reverse complement motif Consensus sequence: CTTGCAGTTTG

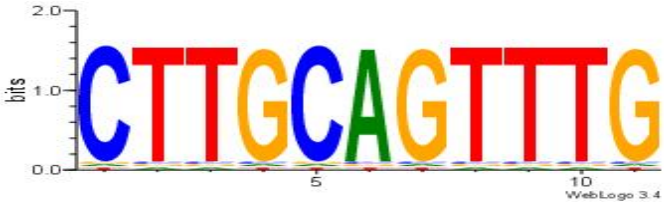

Dataset #:	1
Motif ID:	357

Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0693595

Alignment:

```
TAATTTTATGTGTCAACTTG
---TTTTATTTT--------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

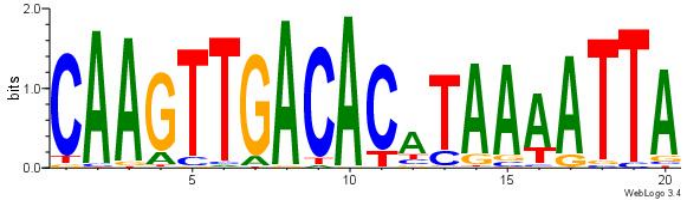

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

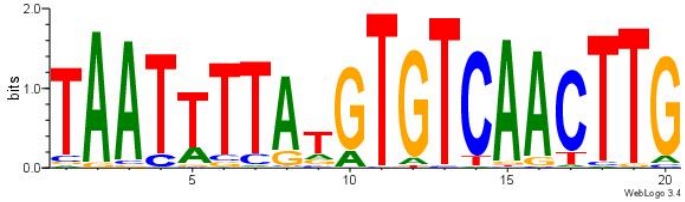

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0701426

Alignment:
TYTGTCMTTTTGTGACTGGC
--TTTTATTTT---------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

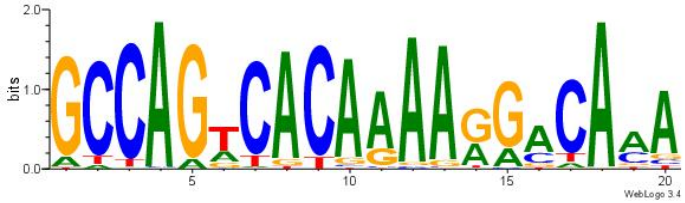

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

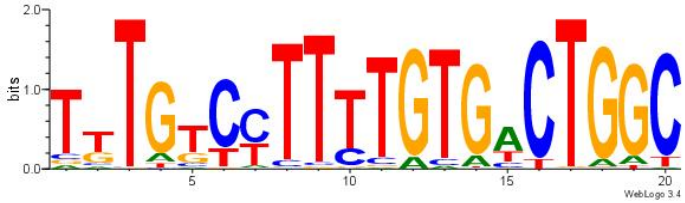

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0705708

Alignment:
GTTGTGAGGATTAAATGAG
----AAAATAAAA------

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

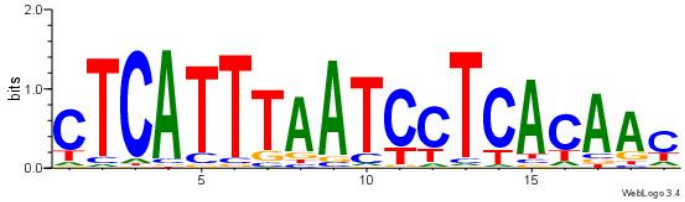

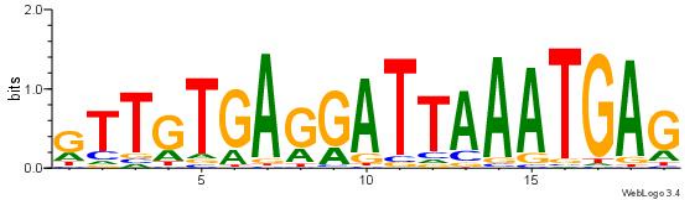

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0713452

Alignment:

```
ACCCAATWTGTAGTCTTTTA
----------TTTTATTTT-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

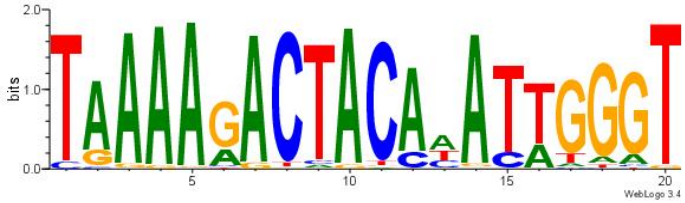

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

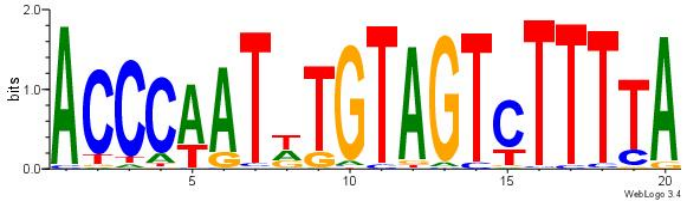

Dataset #:	1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0751064

Alignment:

```
TCCTATGAGAATCTAATG
-------AAAATAAAA--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

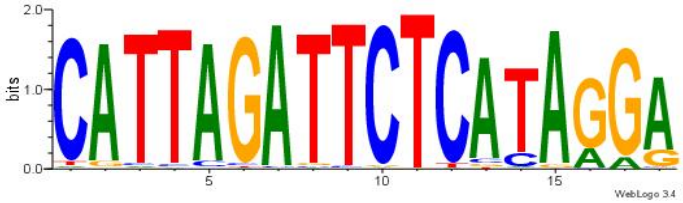

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

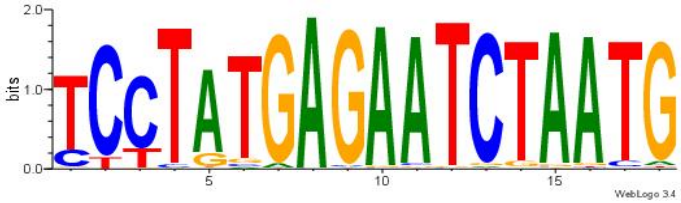

Dataset #:	1
Motif ID:	130
Motif name:	Motif 130
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0760414

Alignment:
ATTATTATYAT
--TTTTATTTT

Original motif Consensus sequence: ATTATTATYAT

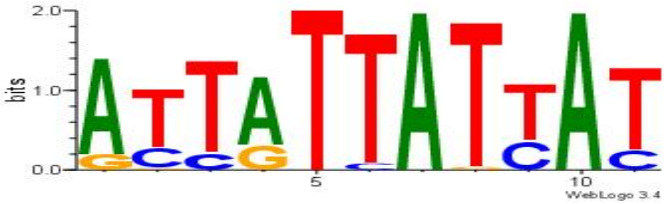

Reverse complement motif Consensus sequence: ATMATAATAAT

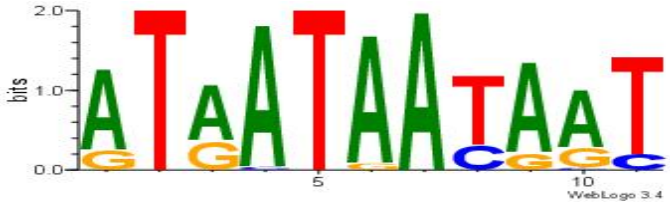

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0762613

Alignment:
AAGTCTCCCAATTACAACT
--------AAAATAAAA--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

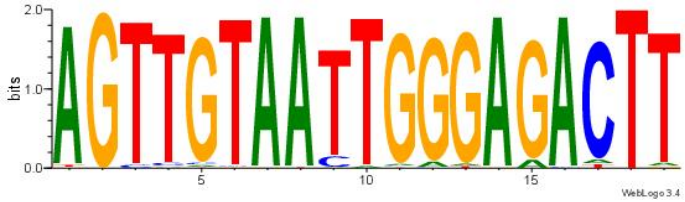

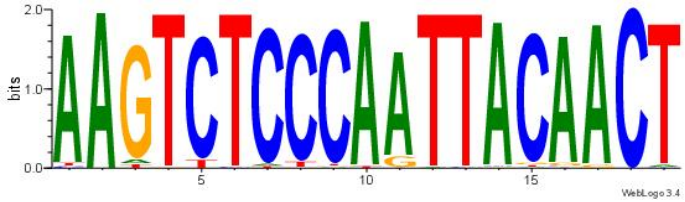

Dataset #:	1
Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0775104

Alignment:

```
TTCTGTTTCT
TTTTATTTT-
```

Original motif Consensus sequence: AGAAACAGAA

Reverse complement motif Consensus sequence: TTCTGTTTCT

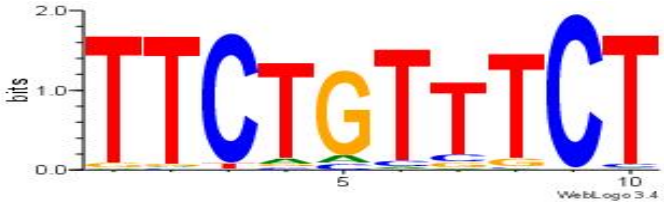

Dataset #:	1
Motif ID:	181

Motif name:	Motif 181
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0799723

Alignment:

```
ATTTGCATTT
-TTTTATTTT
```

Original motif Consensus sequence: AAATGCAAAT

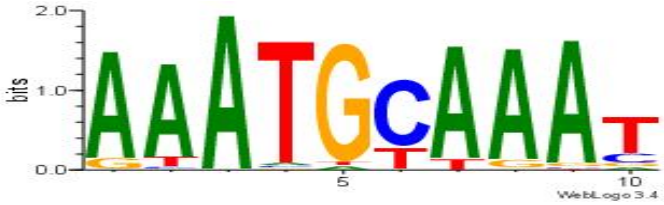

Reverse complement motif Consensus sequence: ATTTGCATTT

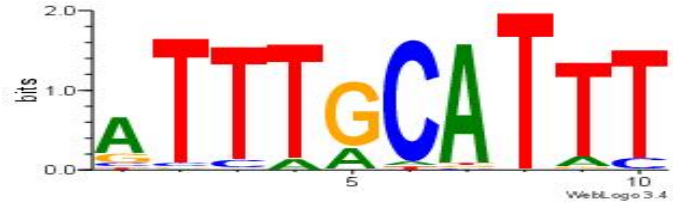

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0802944

Alignment:
ATTGGTGTATTTACAATCCC
-------TTTTATTTT----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

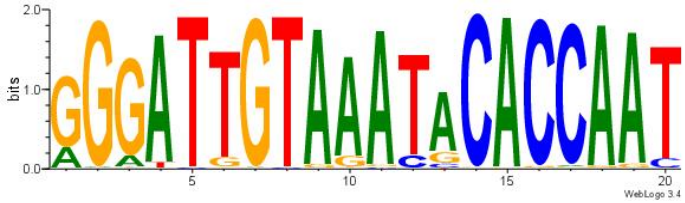

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.080695

Alignment:
TGAGKCAATTAAACCTCTT
-----AAAATAAAA-----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

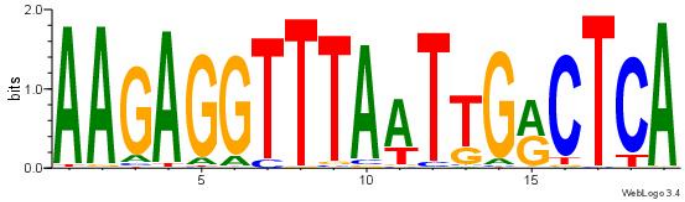

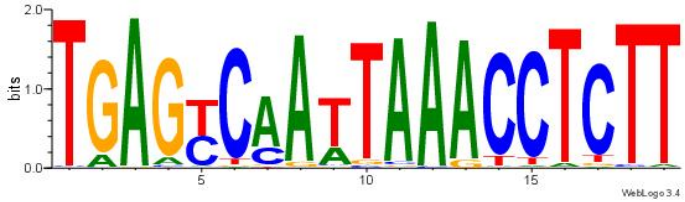

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0811511

Alignment:

```
GTTAACTGTAAAACAGCCT
----AAAATAAAA------
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

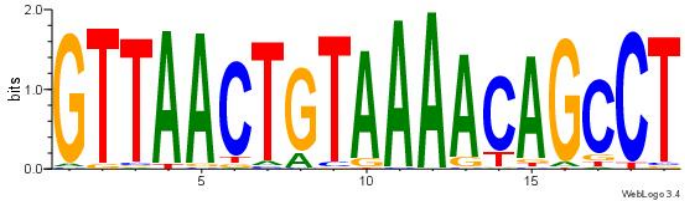

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

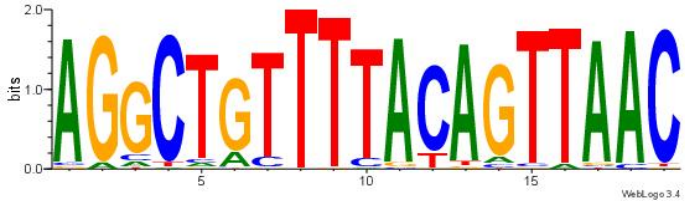

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0812675

Alignment:

```
TGGAGAACCTTTATGTCTAG
--------TTTTATTTT---
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

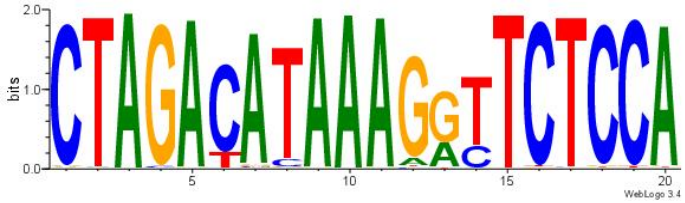

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

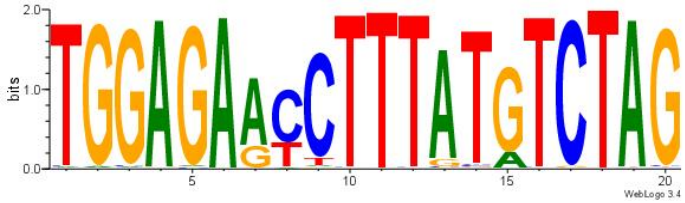

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0814906

Alignment:
AAGGAAAAGAAA
---AAAATAAAA

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

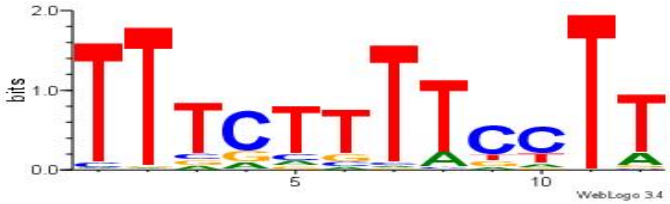

Dataset #: 1
Motif ID: 275
Motif name: Motif 275
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 9
Similarity score: 0.0816678

Alignment:
CTCACAGAGTTAAA
-----AAAATAAAA

Original motif Consensus sequence: CTCACAGAGTTAAA

Reverse complement motif Consensus sequence: TTTAACTCTGTGAC

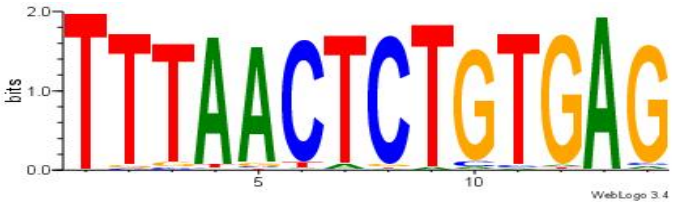

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0824601

Alignment:

```
AAGTCCAAGATCAAGGTGYY
------AAAATAAAA-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

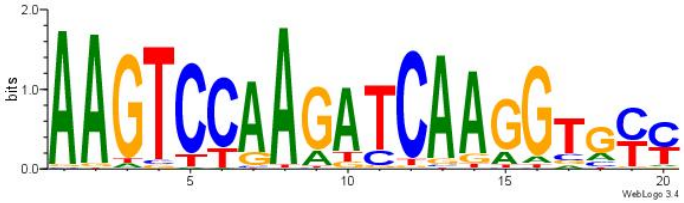

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

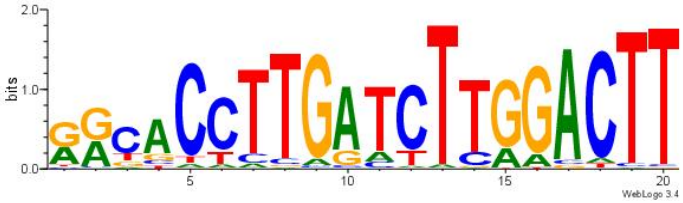

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0824864

Alignment:

```
AATGAKATCATGTCYTTTGC
---------TTTTATTTT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

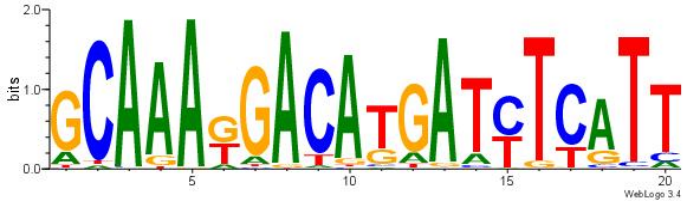

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

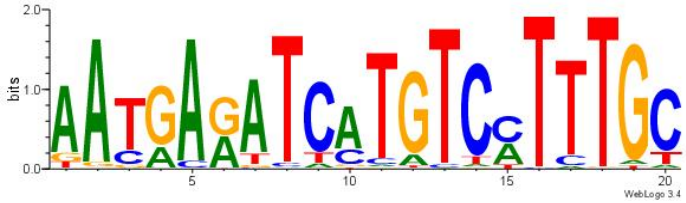

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.085359

Alignment:
GAGCTTTAAGATTT
----TTTTATTTT-

Original motif Consensus sequence: AAATCTTAAAGCTC

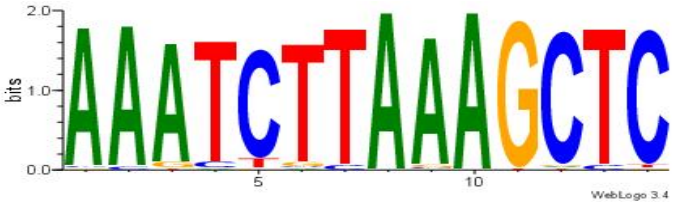

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

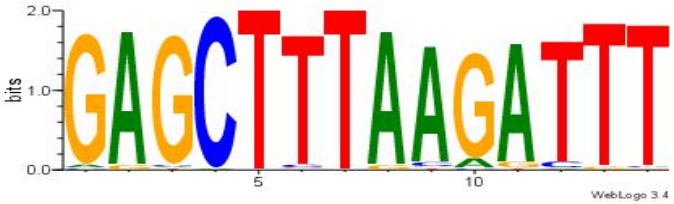

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0858516

Alignment:
GACAGGAGATTAACACTGAG
------AAAATAAAA-----

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

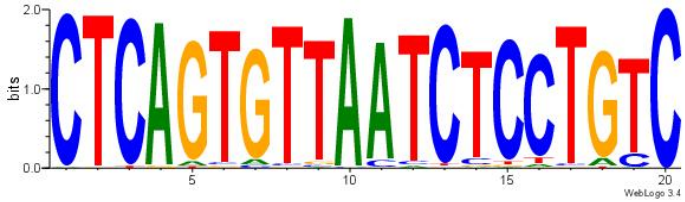

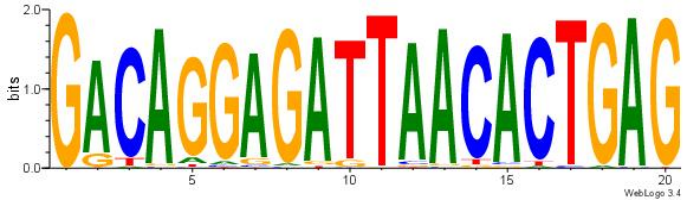

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0863287

Alignment:

```
GTTATTAATTGGCCTAATTT
--TTTTATTTT---------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

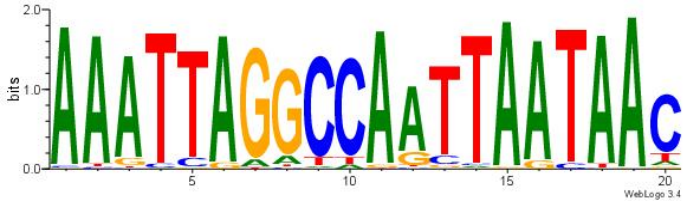

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.08634

Alignment:

```
GGTTTTCCATTCCTGAG
--TTTTATTTT------
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

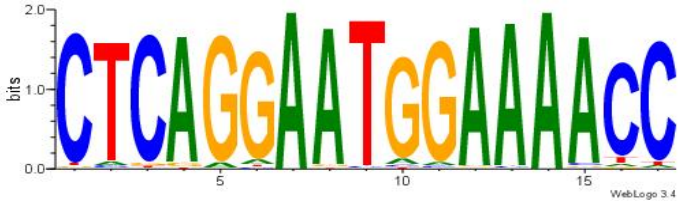

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

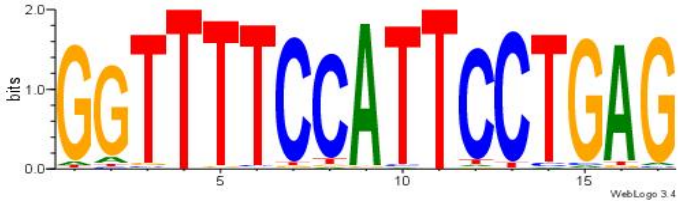

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9

Similarity score: 0.0863804

Alignment:
AGTGAGAACATRYRRTRTTT
------AAAATAAAA-----

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

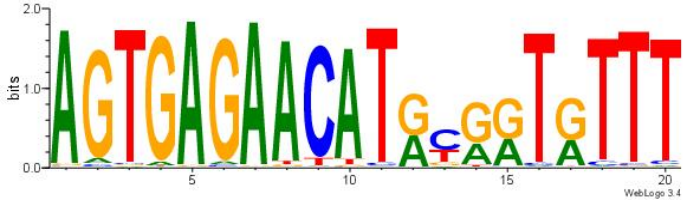

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

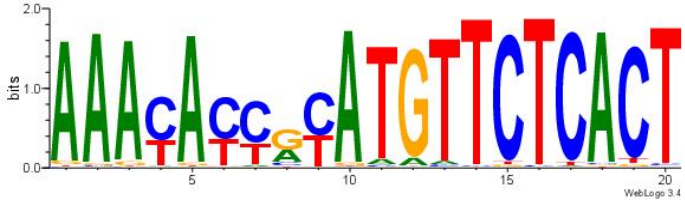

Dataset #: 1
Motif ID: 169
Motif name: Motif 169
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 9
Similarity score: 0.0864349

Alignment:
TTTTATAGGATTTGGG
TTTTATTTT-------

Original motif Consensus sequence: CCCAAATCCTATAAAA

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

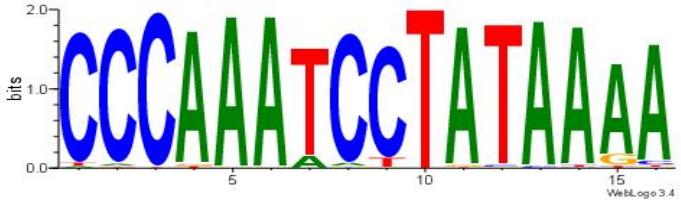

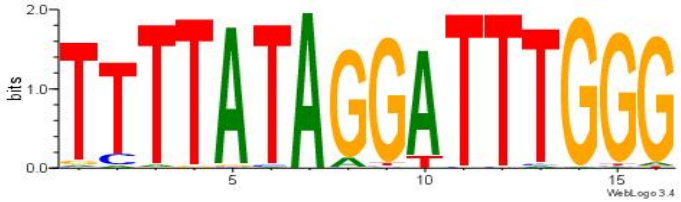

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0877566

Alignment:

```
ATGTAACCAAAYACCACCTG
-------AAAATAAAA----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

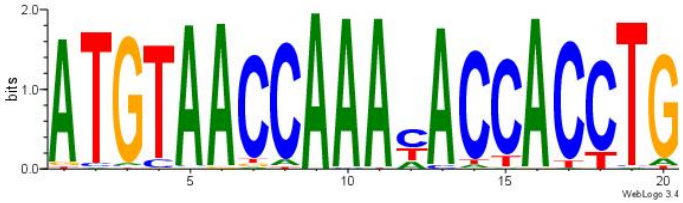

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

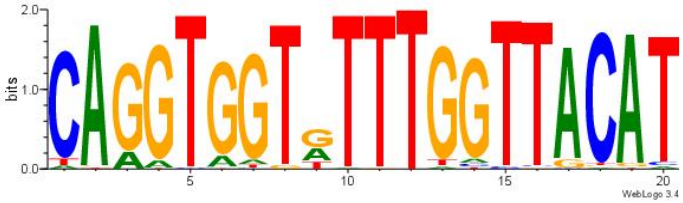

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0881369

Alignment:

```
TAGATAATAGCTCCAGCTTT
AAAATAAAA-----------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

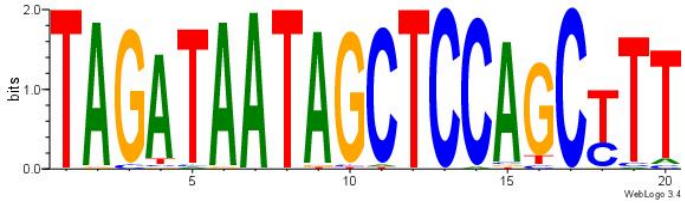

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

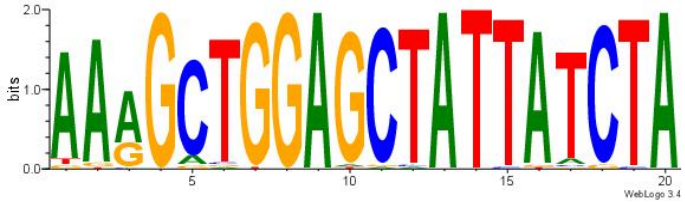

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9

Similarity score: 0.0886956

Alignment:
ATGGCTGAATAKTATTCCAT
---------TTTTATTTT--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

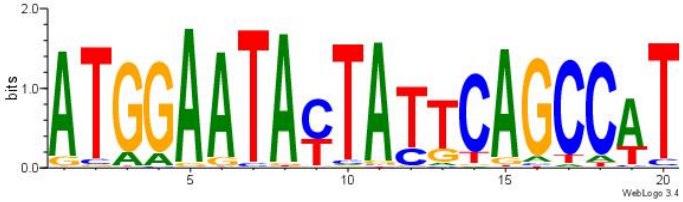

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

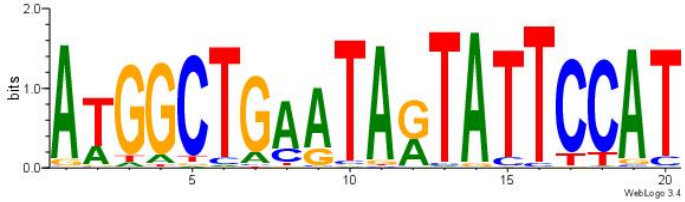

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 9
Similarity score: 0.0900932

Alignment:
ATTCAASATGAGATTTGGG
----AAAATAAAA------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

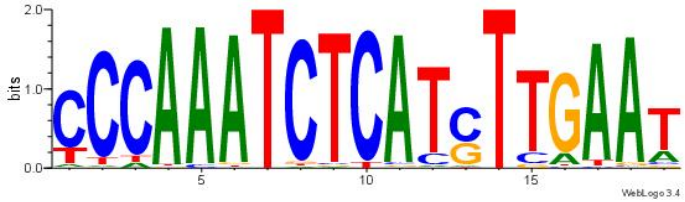

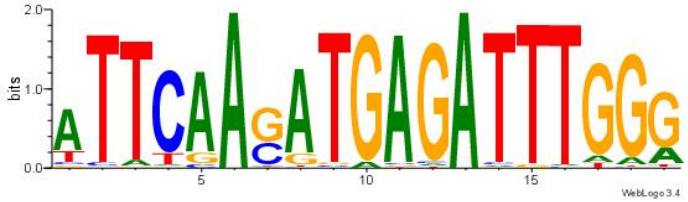

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0910594

Alignment:

```
CAAGGTCTGATTGTW
-----TTTTATTTT-
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

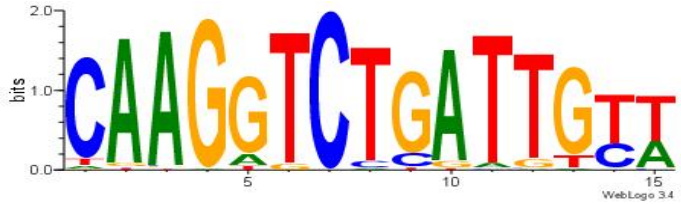

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0912352

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-----------TTTTATTTT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

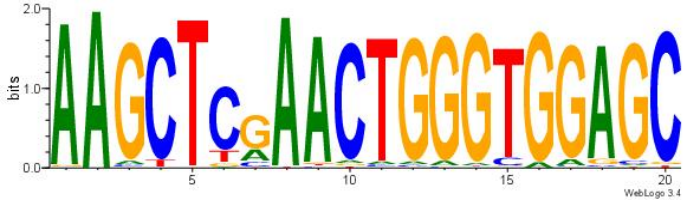

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

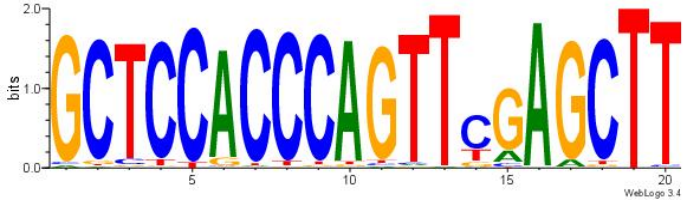

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0916506

Alignment:
AGTGACCCGATTTTCCAGGT
-----TTTTATTTT------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

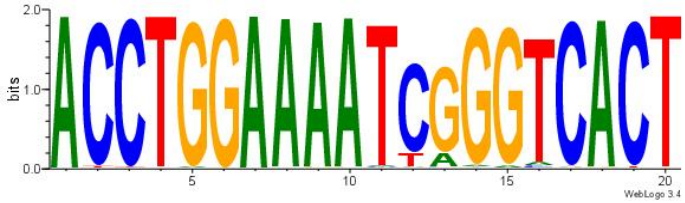

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

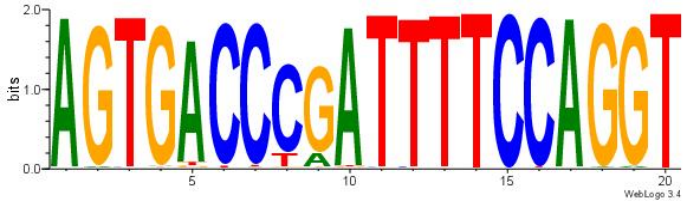

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0923161

Alignment:
VMATTTAKTGAGCACCTACT
--TTTTATTTT---------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

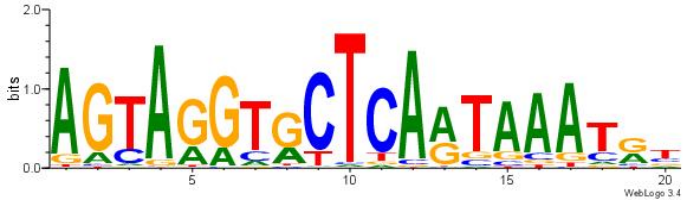

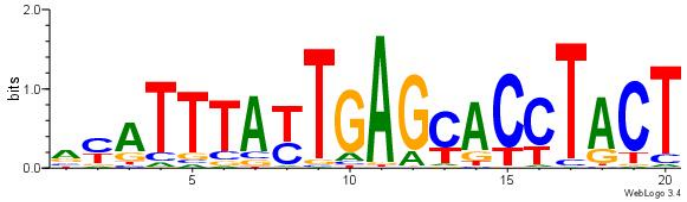

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0926398

Alignment:

```
CGGCGCTGMGCTCGATTTCT
----------TTTTATTTT-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

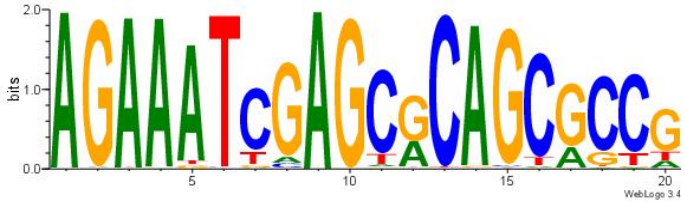

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

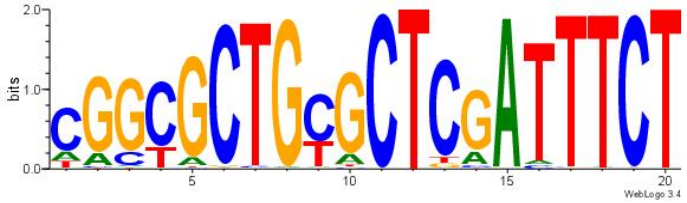

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0928819

Alignment:

```
CCCYAATACTGCGCTTTTC
---------TTTTATTTT-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

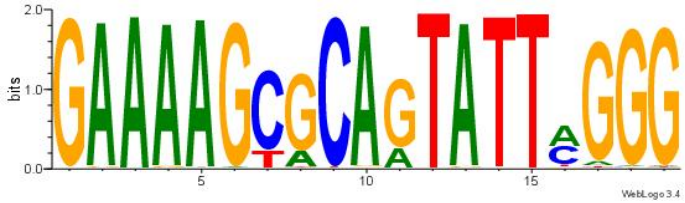

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

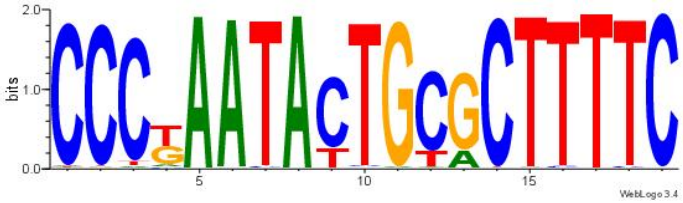

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9

Similarity score: 0.0930091

Alignment:
GACTTCAAGAATGAAGCCG
-------AAAATAAAA---

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

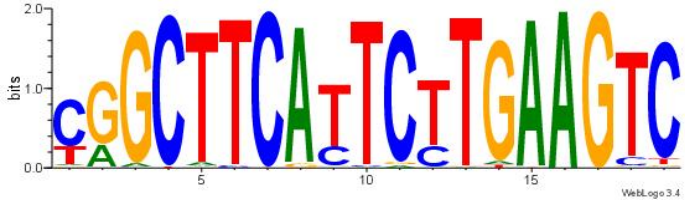

Dataset #: 1
Motif ID: 282
Motif name: Motif 282
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 9
Similarity score: 0.0937346

Alignment:
GTCTCTACTAAAA
----AAAATAAAA

Original motif Consensus sequence: GTCTCTACTAAAA

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

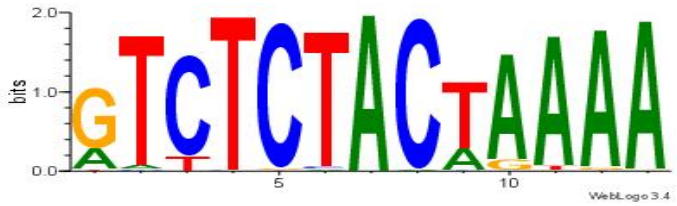

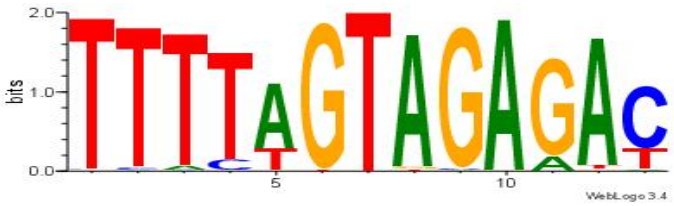

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0939246

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
----------TTTTATTTT-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

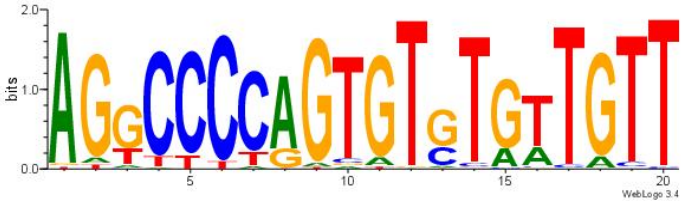

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

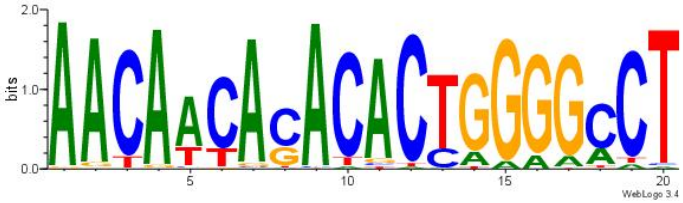

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0941173

Alignment:

```
ACACATCACAAAGCAGTTTC
--AAAATAAAA---------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

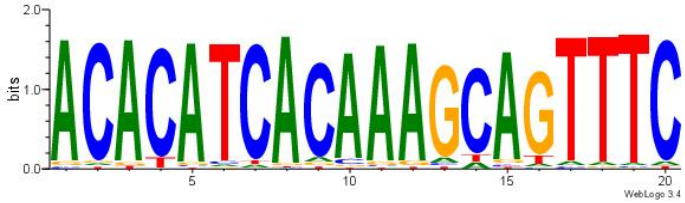

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

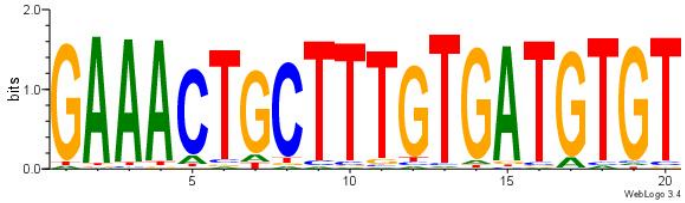

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.0943387

Alignment:
AAAATGTGGTAYATAYAYAC
AAAATAAAA----------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

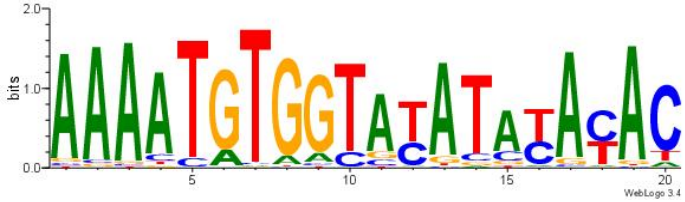

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

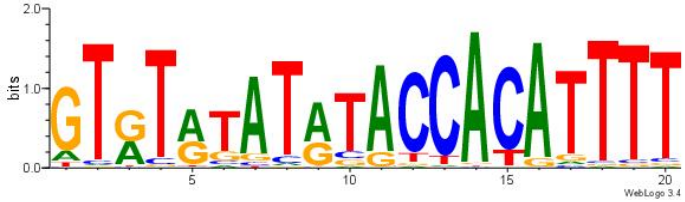

Dataset #: 1
Motif ID: 353
Motif name: Motif 353
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.094452

Alignment:
GCTTCCATGTG
--TTTTATTTT

Original motif Consensus sequence: CACATGGAAGC

Reverse complement motif Consensus sequence: GCTTCCATGTG

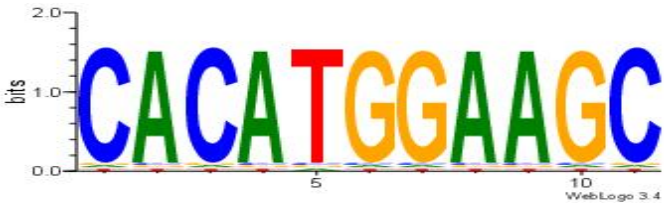

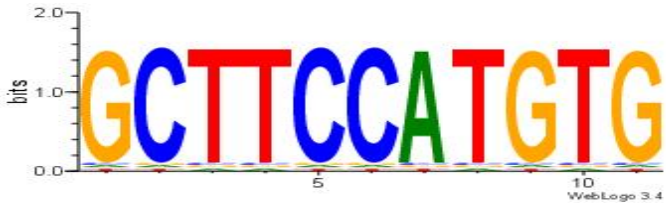

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0944934

Alignment:

```
AAATATTTATT
--TTTTATTTT
```

Original motif Consensus sequence: AAATATTTATT

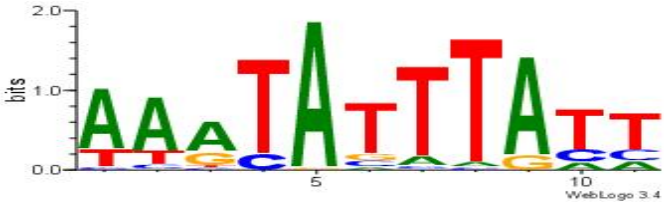

Reverse complement motif Consensus sequence: AATAAATATTT

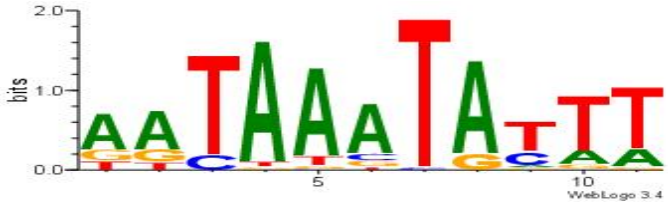

Dataset #:	1
Motif ID:	173

Motif name:	Motif 173
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0948529

Alignment:

```
AAGGAAACAA
-AAAATAAAA
```

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

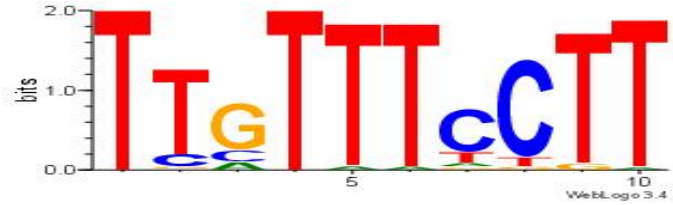

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0948832

Alignment:
AGGAGGAAGTCAATTTC
--------TTTTATTTT

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

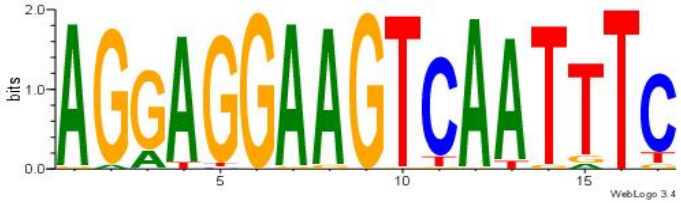

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

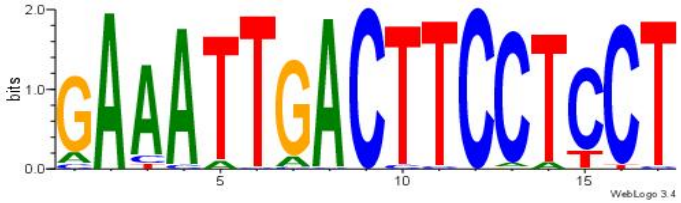

Dataset #: 1 Motif ID: 127 Motif name: Motif 127

Original motif Consensus sequence: CCCCAACCCC

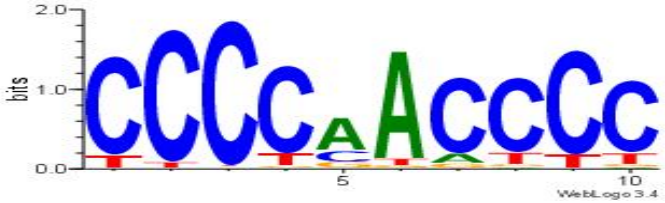

Reverse complement motif Consensus sequence: GGGGTTGGGG

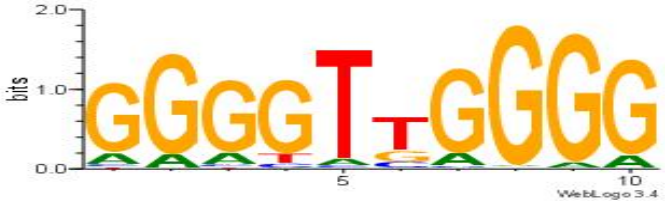

Best Matches for Significant Motif ID 127 (Highest to Lowest)

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 1
Number of overlap: 10
Similarity score: 0.0369517

Alignment:
CCCCWCCCCCA
CCCCAACCCC-

Original motif Consensus sequence: CCCCWCCCCCA

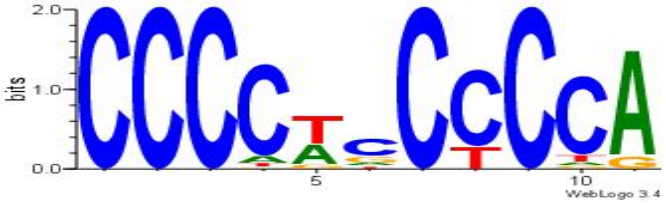

Reverse complement motif Consensus sequence: TGGGGGWGGGG

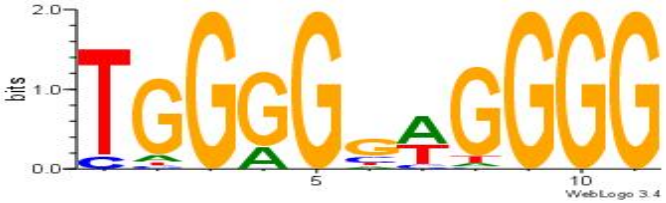

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0650488

Alignment:
GGGGGCTGACCCCCCCACC
---------CCCCAACCCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

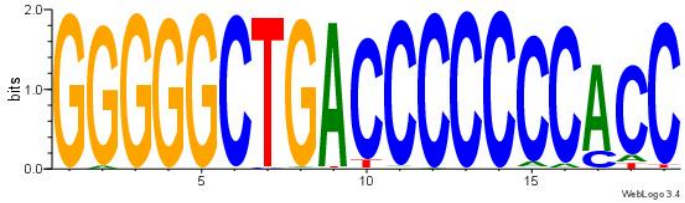

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

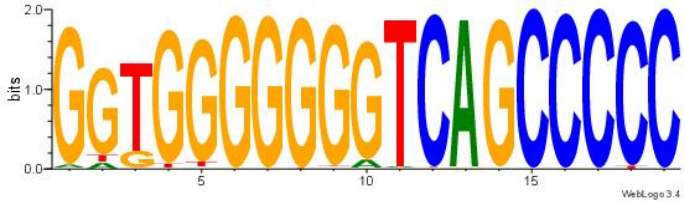

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0661693

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------GGGGTTGGGG----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

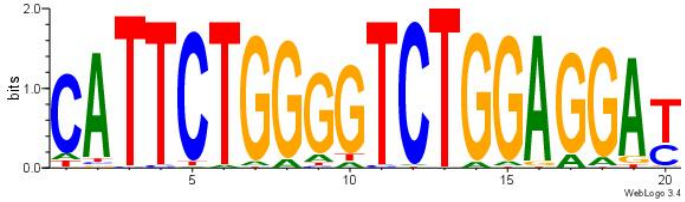

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

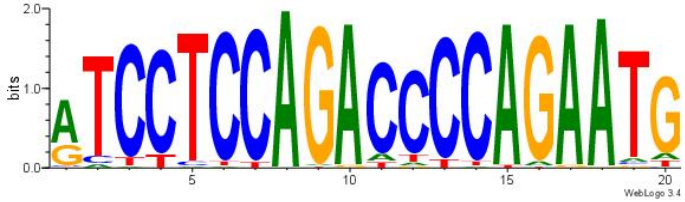

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0688836

Alignment:

```
TAATAAGGGTGTGGG
-----GGGGTTGGGG
```

Original motif Consensus sequence: CCCACACCCTTATTA

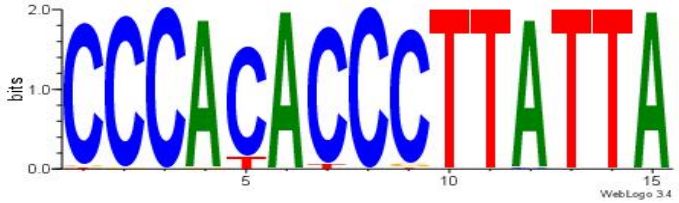

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

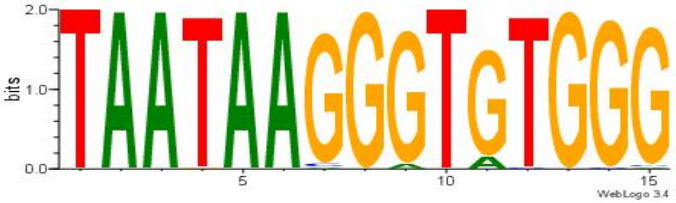

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0693706

Alignment:
GGAGGTGTGGAGGGAGAGGC
---GGGGTTGGGG-------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

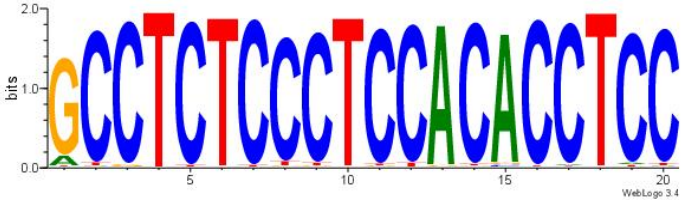

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

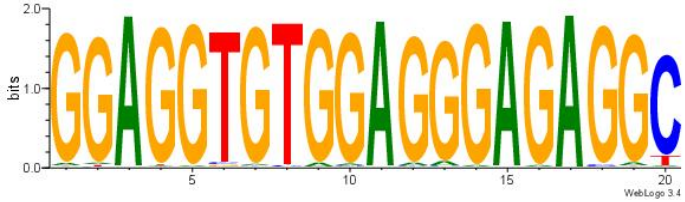

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0694111

Alignment:
AGTTCCGGGTGGGCGTGGG
----GGGGTTGGGG-----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

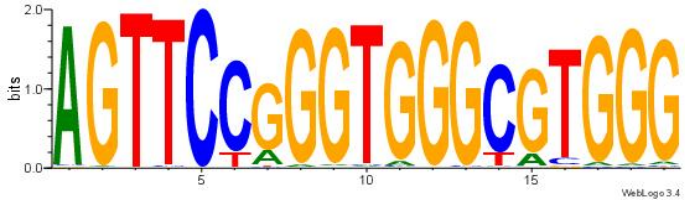

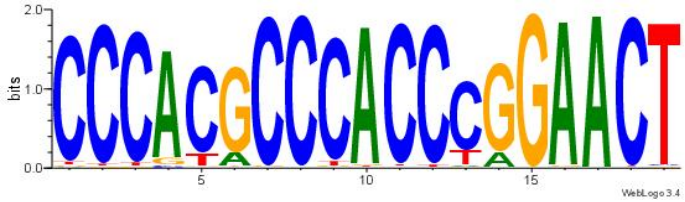

Dataset #:	1
Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0703071

Alignment:

```
GGGACTTGGG
GGGGTTGGGG
```

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	26

Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0708859

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
------CCCCAACCCC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

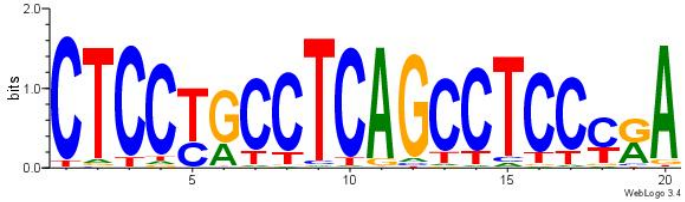

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

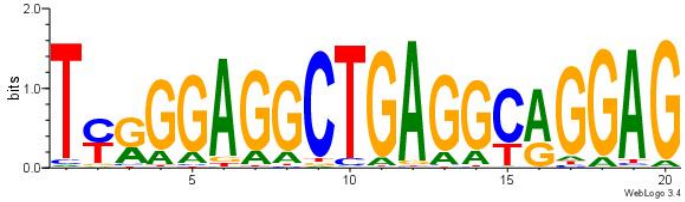

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0725136

Alignment:
CCCAAATCCTATAAAA
CCCCAACCCC------

Original motif Consensus sequence: CCCAAATCCTATAAAA

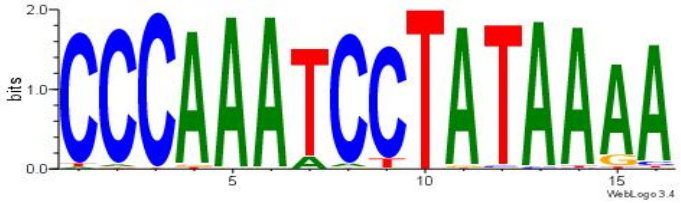

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

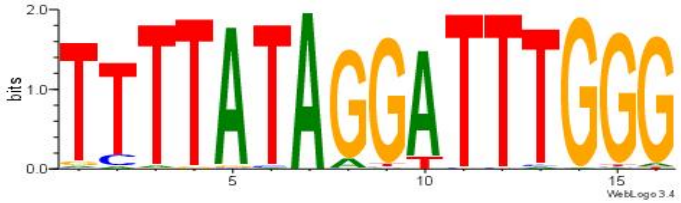

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0727658

Alignment:
CGTCCATCACCCC
---CCCCAACCCC

Original motif Consensus sequence: CGTCCATCACCCC

Reverse complement motif Consensus sequence: GGGGTGATGGACG

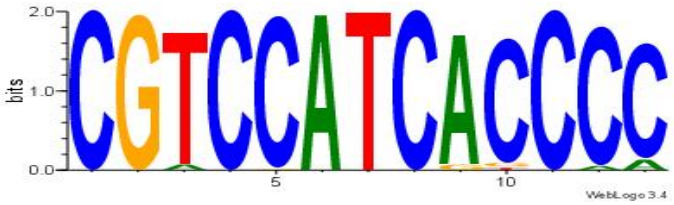

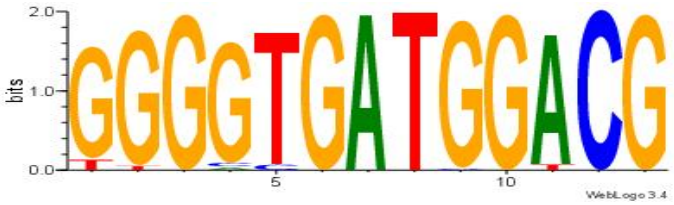

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0730751

Alignment:

```
ATTAGCYRGGCRTGGTGGC
--GGGGTTGGGG-------
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

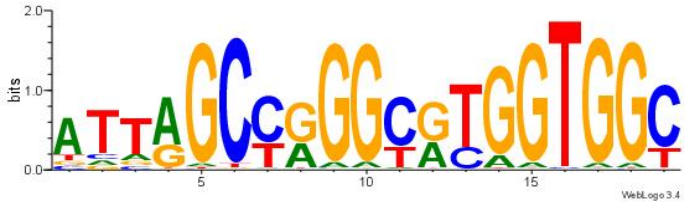

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

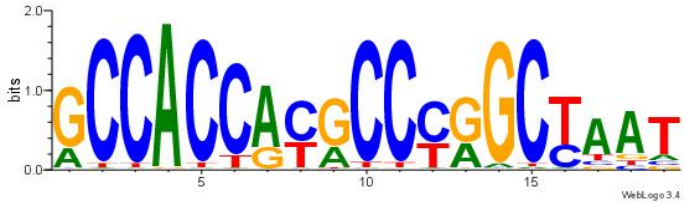

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0734854

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GGGGTTGGGG------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

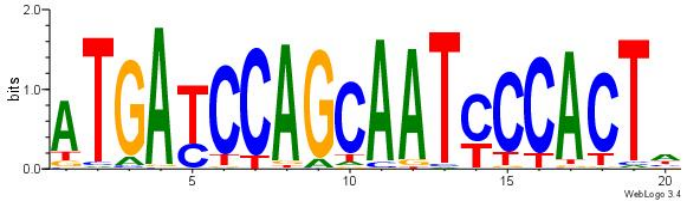

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

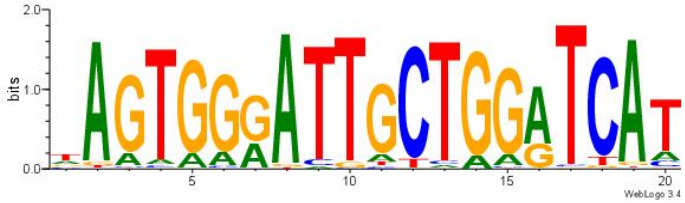

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0744394

Alignment:
GTGTCCCCTTCCTCCC
----CCCCAACCCC--

Original motif Consensus sequence: GGGAGGAAGGGGACAC

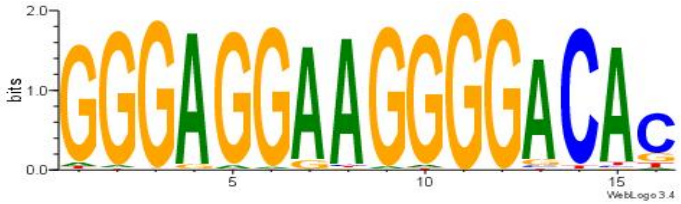

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

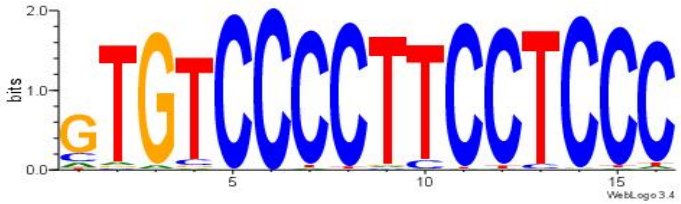

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0758184

Alignment:
CGAGCCCTGCCCCGCGG
---CCCCAACCCC----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

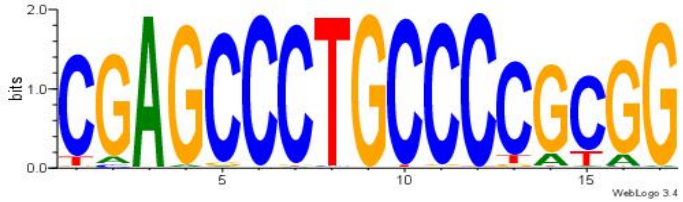

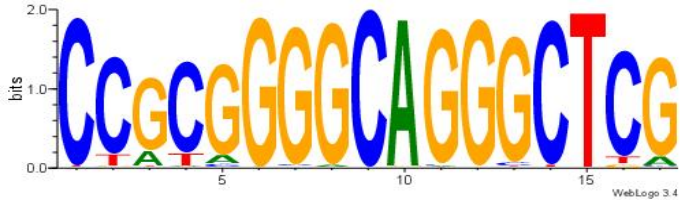

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0768689

Alignment:

```
ATTCAASATGAGATTTGGG
---------GGGGTTGGGG
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

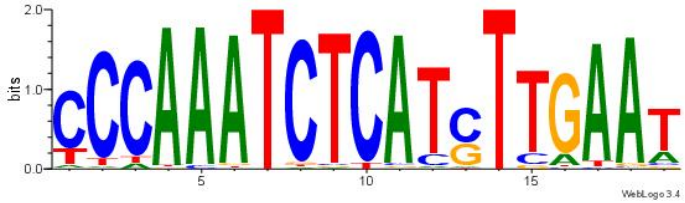

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

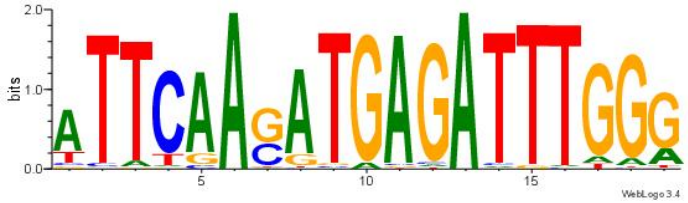

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0773182

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-----GGGGTTGGGG-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

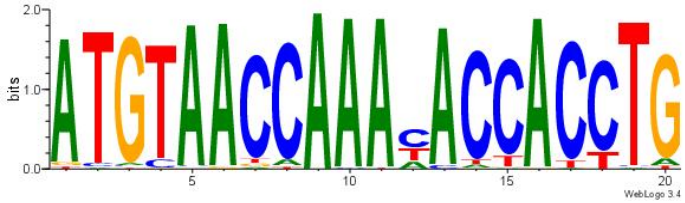

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

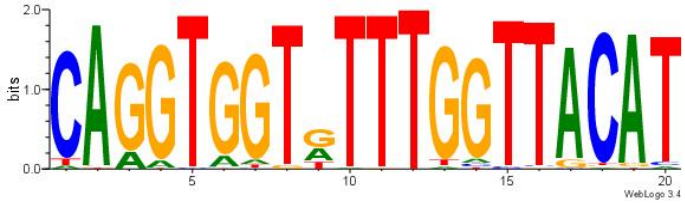

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0807915

Alignment:
GCTGGCCCGCAAGCGCCGCG
------CCCCAACCCC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

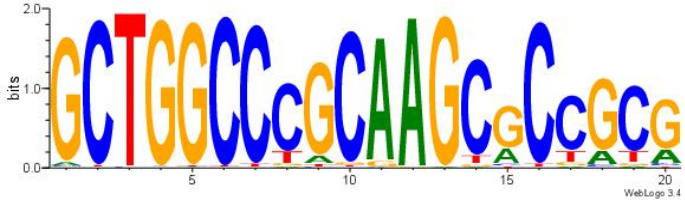

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

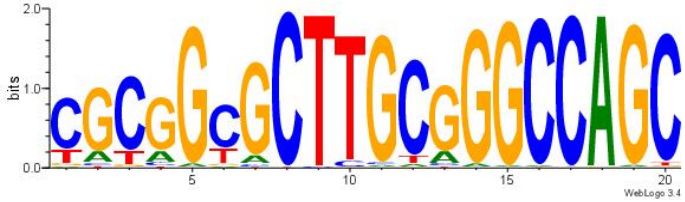

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0811602

Alignment:
CTCCCAGCCGCCTG
-CCCCAACCCC---

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

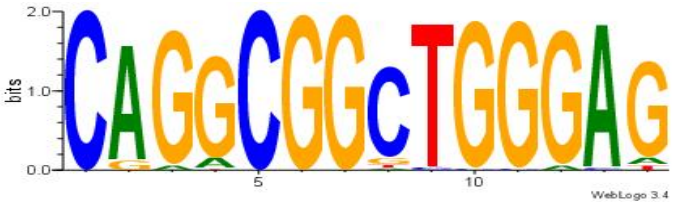

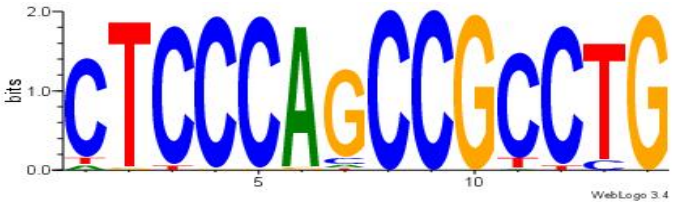

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0813029

Alignment:

```
GGMGCKGTGGCTC
GGGGTTGGGG---
```

Original motif Consensus sequence: GAGCCACYGCRCC

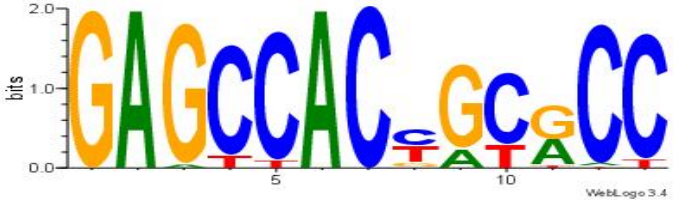

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	111

Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0813298

Alignment:

```
KGGGCDGAGGGGCTCCT
GGGGTTGGGG-------
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

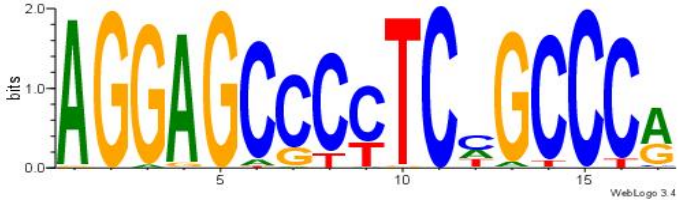

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0814174

Alignment:
CCTCRGCCTCC
CCCCAACCCC-

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0816198

Alignment:
CRTGAGCCACYGYRCCYGGC
------CCCCAACCCC----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

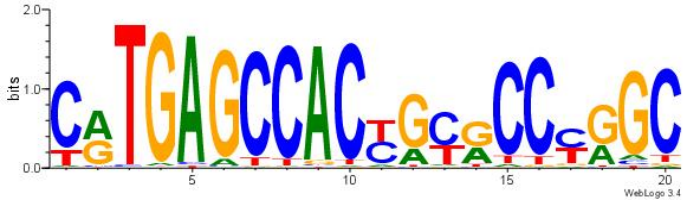

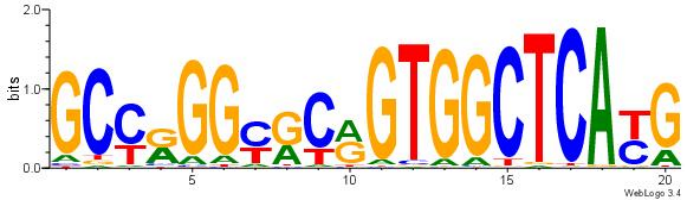

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0820785

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---------CCCCAACCCC-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

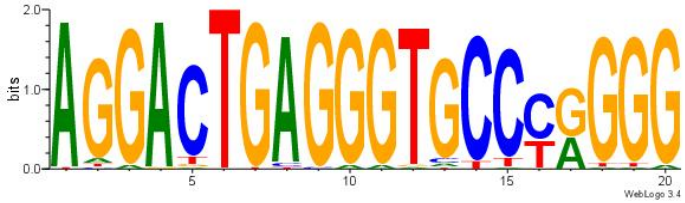

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

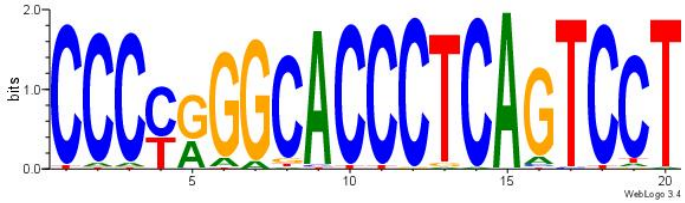

Dataset #:	1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0824609

Alignment:

```
CCAAGACYCCAGAC
CCCCAACCCC----
```

Original motif Consensus sequence: CCAAGACYCCAGAC

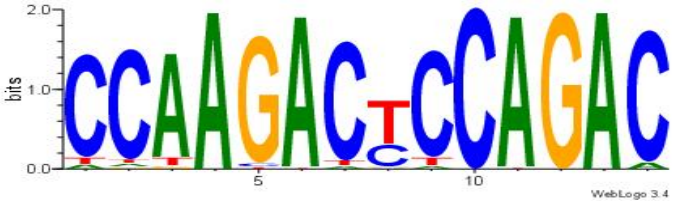

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

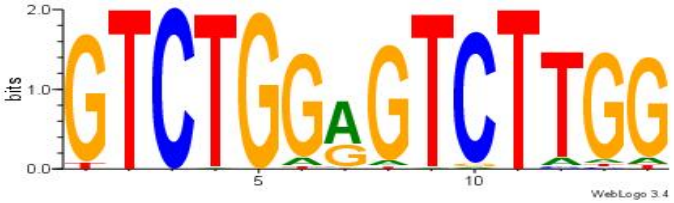

Dataset #:	1
Motif ID:	198
Motif name:	Motif 198
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0826182

Alignment:
TCCCTRCCCT
CCCCAACCCC

Original motif Consensus sequence: AGGGMAGGGA

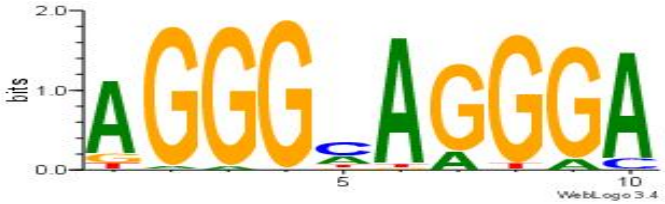

Reverse complement motif Consensus sequence: TCCCTRCCCT

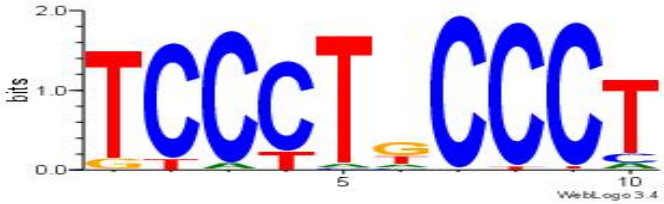

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0827372

Alignment:
ATGTGGAGGTGGAAGACAGT
--GGGGTTGGGG--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

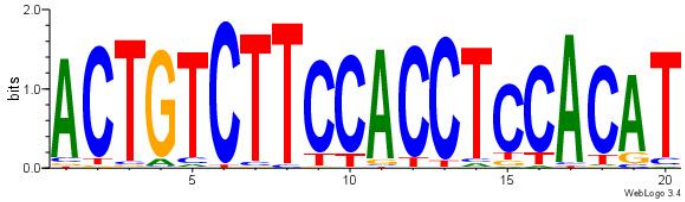

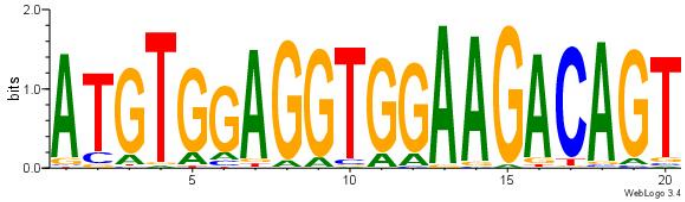

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0833862

Alignment:

```
VCCDCCTCCKCCTCCTC
----CCCCAACCCC---
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

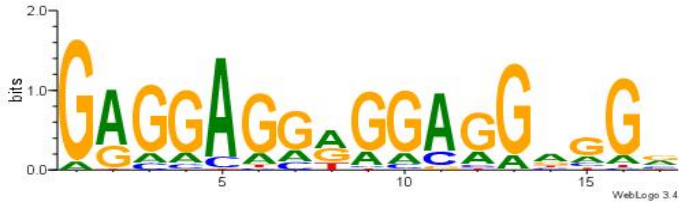

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

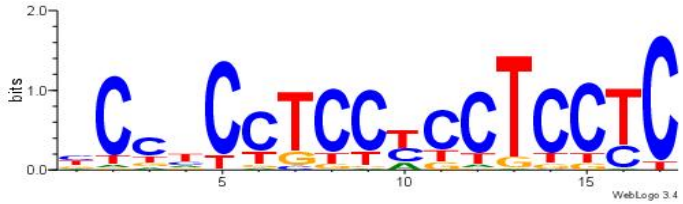

Dataset #:	1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0841455

Alignment:

```
GGGGTGACAGABGB
----GGGGTTGGGG
```

Original motif Consensus sequence: GGGGTGACAGABGB

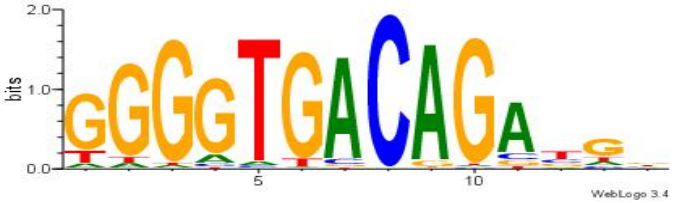

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

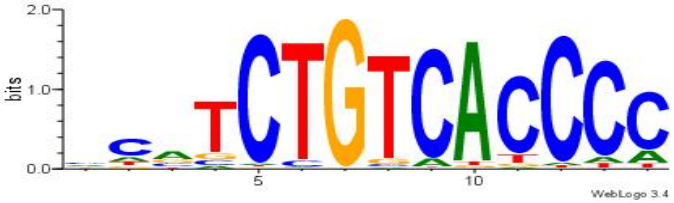

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0845679

Alignment:
GCCCTCACCATCC
-CCCCAACCCC--

Original motif Consensus sequence: GCCCTCACCATCC

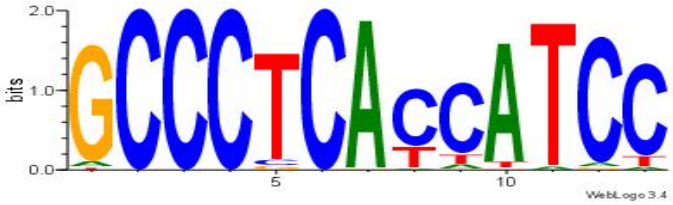

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

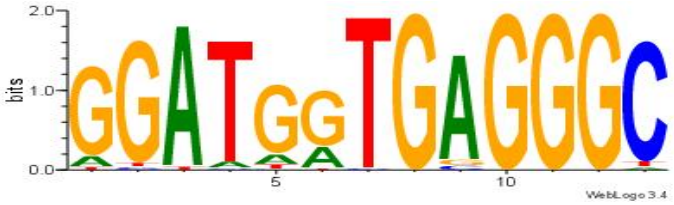

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0850398

Alignment:
CKCGTCSGGGAGG
GGGGTTGGGG---

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

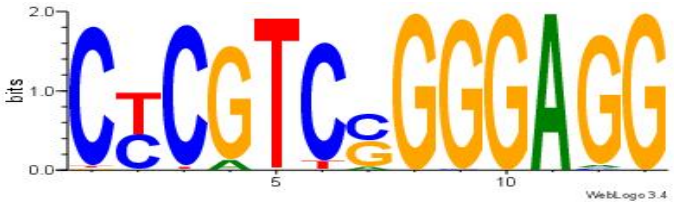

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0850742

Alignment:
TCCCTCCCGGACGGGGYGGC
------GGGGTTGGGG----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

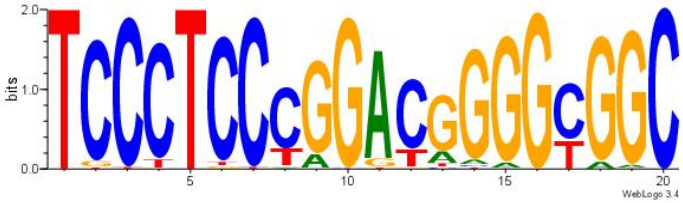

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

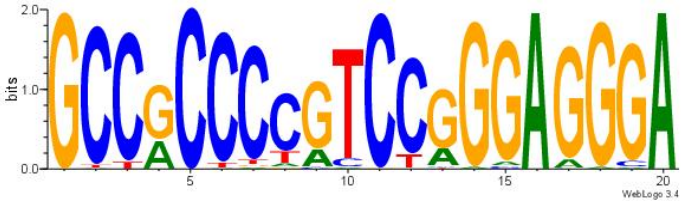

Dataset #: 1

Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.085165

Alignment:

```
AGGCGGCTGGGAGG
--GGGGTTGGGG--
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

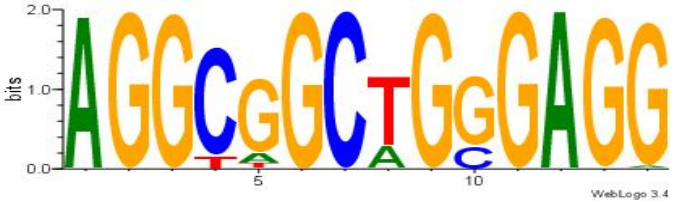

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0852253

Alignment:
GACCAMGAACCCA
--CCCCAACCCC-

Original motif Consensus sequence: GACCAMGAACCCA

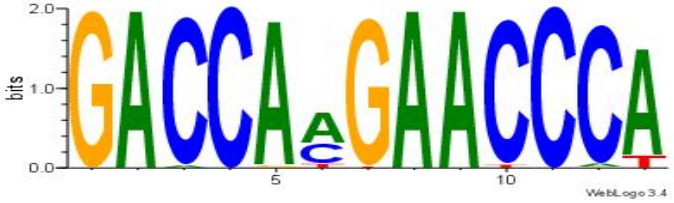

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

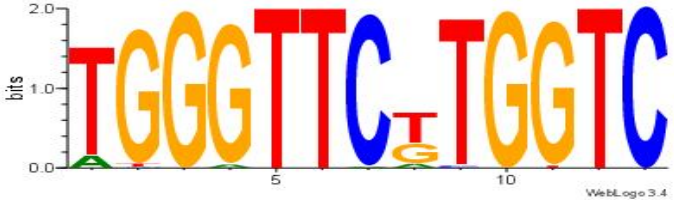

Dataset #:	1
Motif ID:	250
Motif name:	Motif 250
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0855003

Alignment:
CCACCGCTCC
CCCCAACCCC

Original motif Consensus sequence: CCACCGCTCC

Reverse complement motif Consensus sequence: GGAGCGGTGG

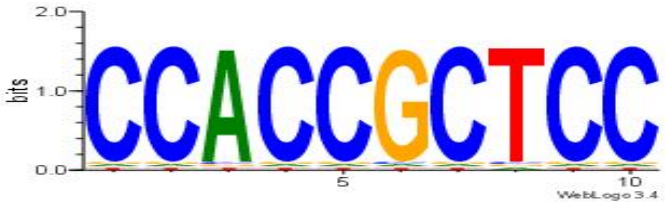

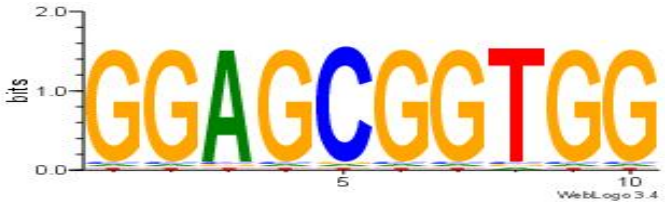

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0860374

Alignment:

```
GCCCTCACCAGAAGC
-CCCCAACCCC----
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

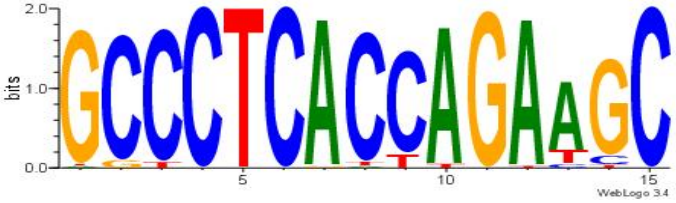

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

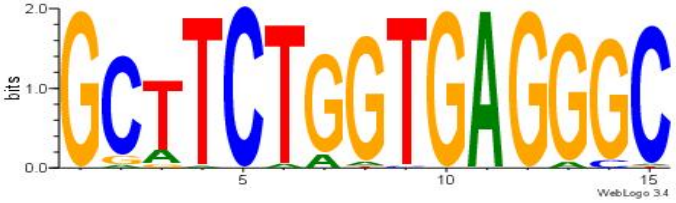

Dataset #:	1
Motif ID:	271

Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0863276

Alignment:

```
AGGGATCTAGGTTGCR
-GGGGTTGGGG-----
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

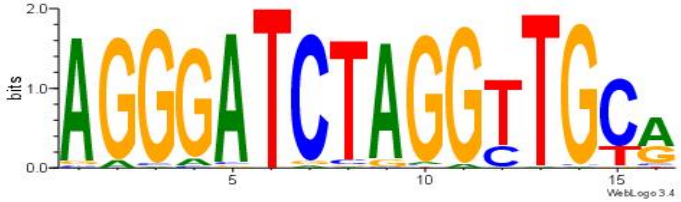

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

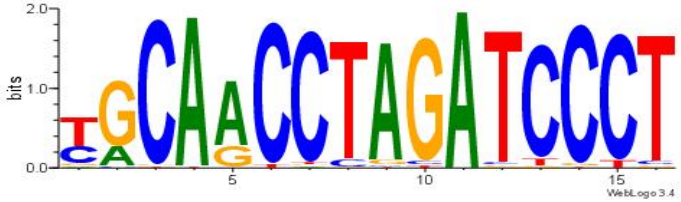

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0868576

Alignment:
GCTCACTGCAASCTC
-----CCCCAACCCC

Original motif Consensus sequence: GCTCACTGCAASCTC

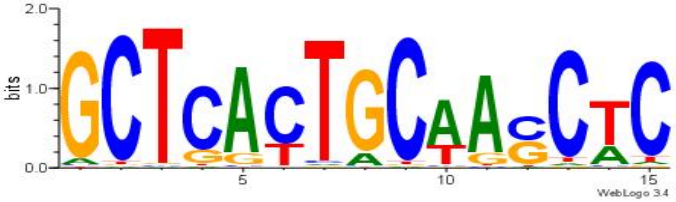

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

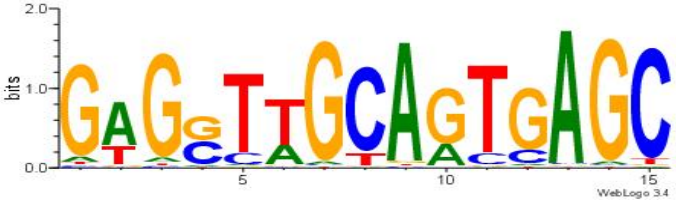

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0871777

Alignment:
CCCTCACTGCCCGGGG
CCCCAACCCC------

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

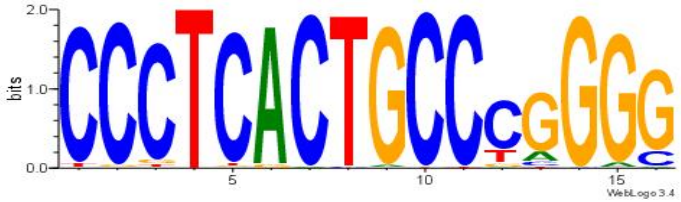

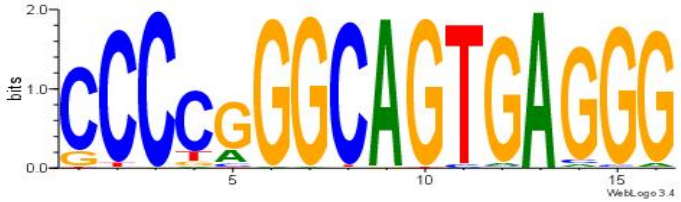

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0874492

Alignment:

```
CTTGGGTGGTCGATGGGAC
-----GGGGTTGGGG----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

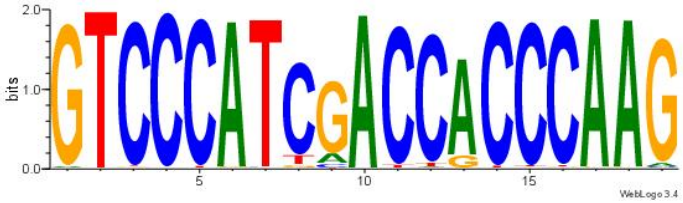

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

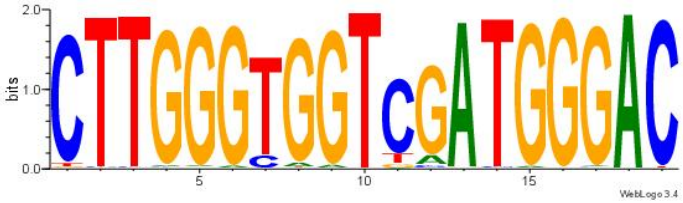

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0876225

Alignment:

```
GAAAAGCGCAGTATTMGGG
GGGGTTGGGG---------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

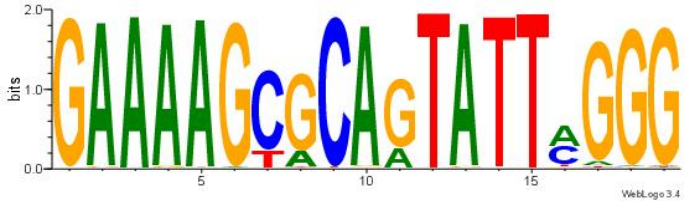

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

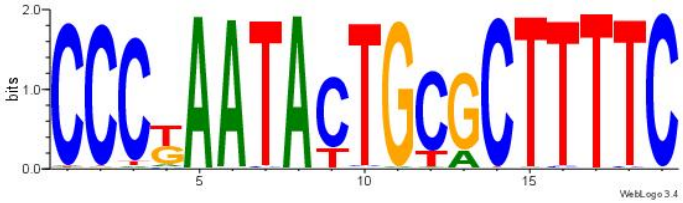

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10

Similarity score: 0.0879359

Alignment:
GGCACTGCTGGGGGACCCAG
----GGGGTTGGGG------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

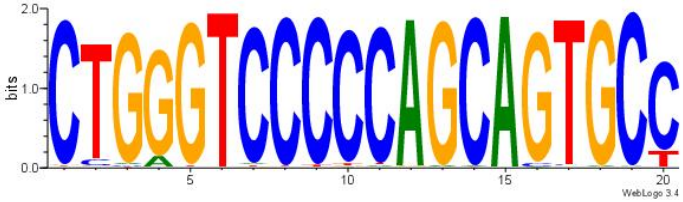

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

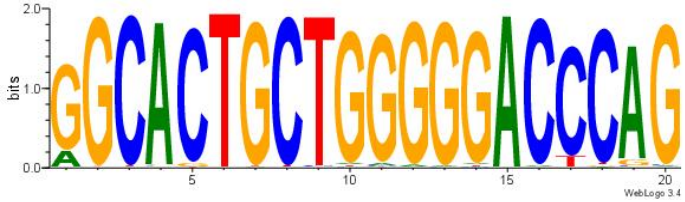

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0891139

Alignment:
GCGCTCKTCGGGGAGGCTCG
---GGGGTTGGGG-------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

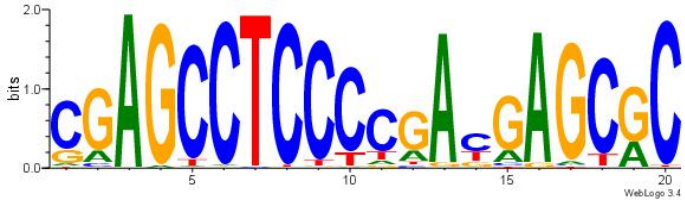

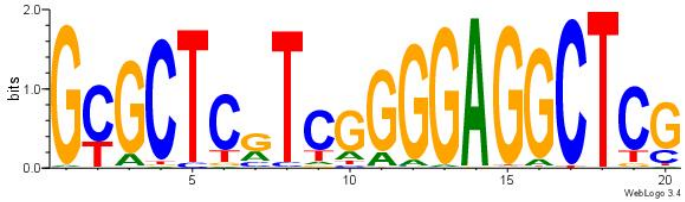

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0896077

Alignment:

```
ATCTGACAGGAGGYRGAGCT
--------GGGGTTGGGG--
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

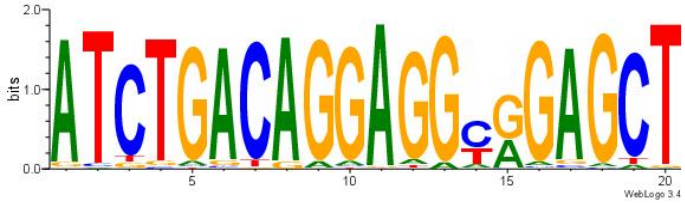

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

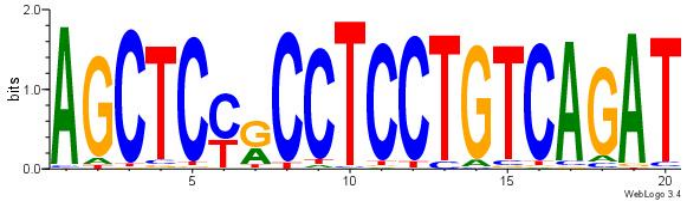

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0897356

Alignment:

```
GTAACACTCACCGCGARGGT
----CCCCAACCCC------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

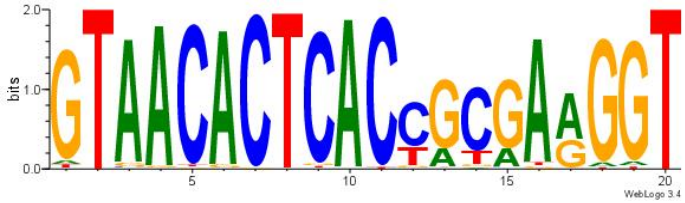

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

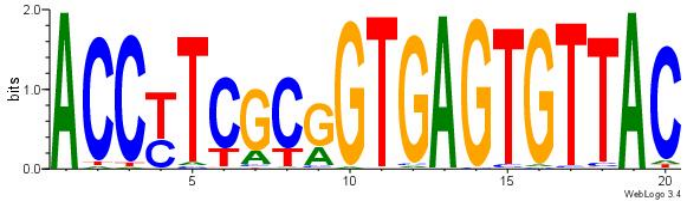

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.089863

Alignment:
GTGTCKGGAGTTTGTTCCTT
------GGGGTTGGGG----

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

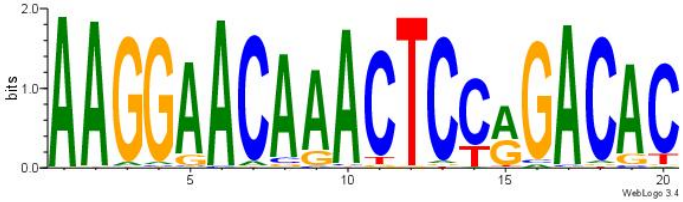

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

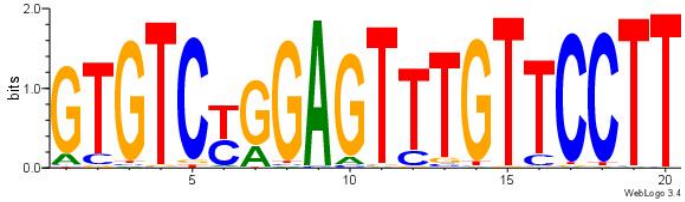

Dataset #: 1
Motif ID: 138
Motif name: Motif 138
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.090234

Alignment:
GGSKGATCTGGCTG
-GGGGTTGGGG---

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

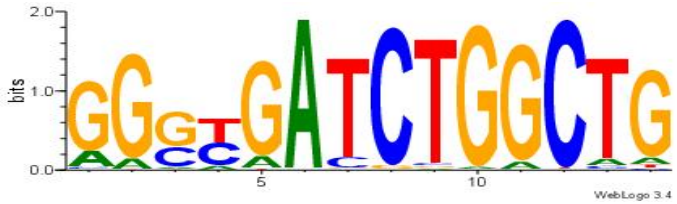

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0905783

Alignment:

```
GATCACGAGGTCAGGAG
-GGGGTTGGGG------
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

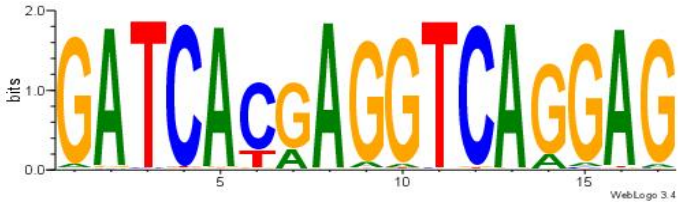

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

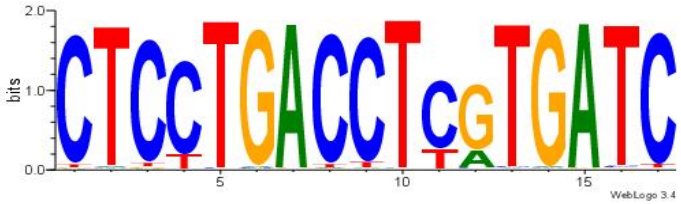

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0910957

Alignment:

```
AAGCTCGAACTGGGTGGAGC
----------GGGGTTGGGG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

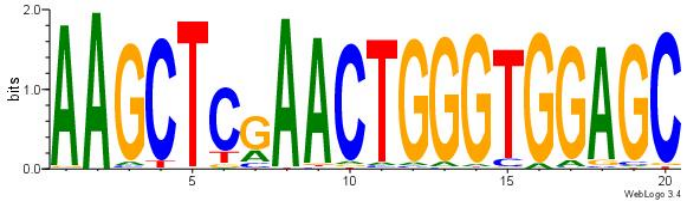

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

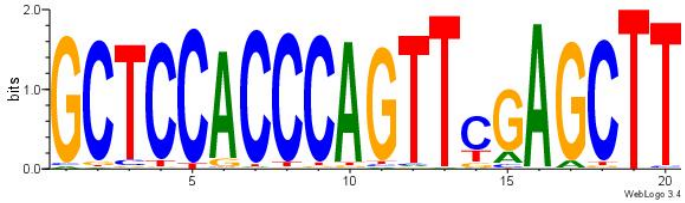

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.0910994

Alignment:
TACCTGAGACTGGGTAATTT
-----GGGGTTGGGG-----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

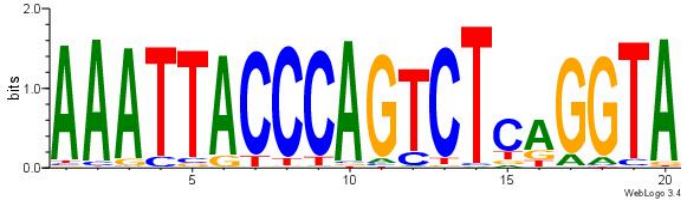

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

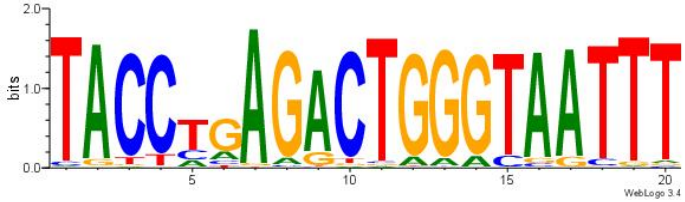

Dataset #: 1
Motif ID: 267
Motif name: Motif 267
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0913045

Alignment:
TCTCAAGTCCAT
CCCCAACCCC--

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

Dataset #: 1 **Motif ID: 250** **Motif name: Motif 250**

Original motif Consensus sequence: CCACCGCTCC

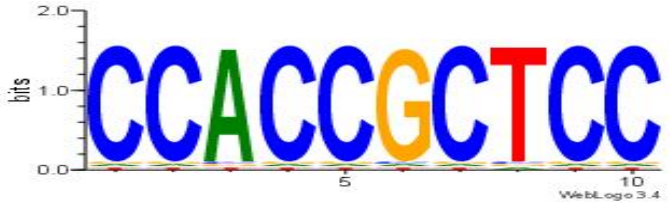

Reverse complement motif Consensus sequence: GGAGCGGTGG

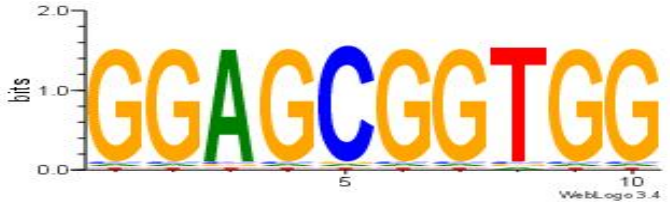

Best Matches for Significant Motif ID 250 (Highest to Lowest)

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.03718

Alignment:

```
GGMGCKGTGGCTC
GGAGCGGTGG---
```

Original motif Consensus sequence: GAGCCACYGCRCC

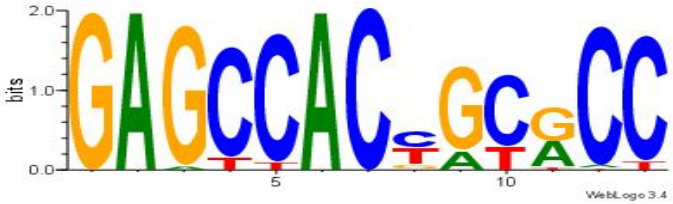

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0459856

Alignment:

```
CRTGAGCCACYGYRCCYGGC
------CCACCGCTCC----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

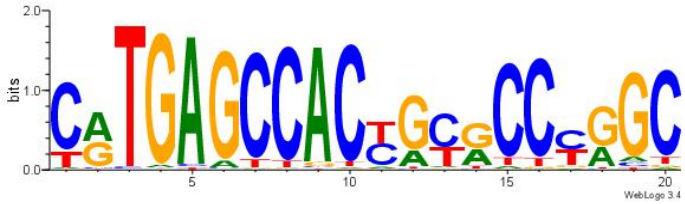

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

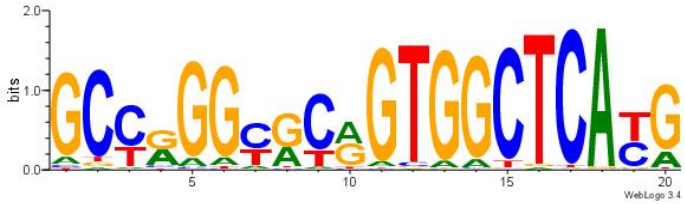

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0478436

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
GGAGCGGTGG----------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

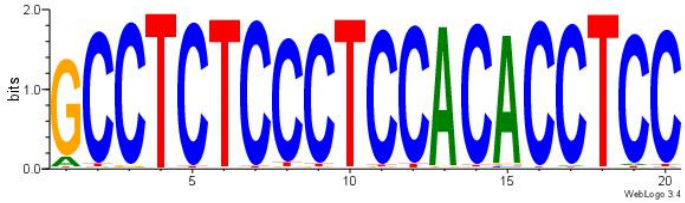

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

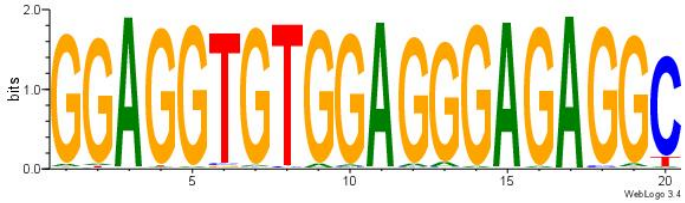

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 10
Similarity score: 0.0491967

Alignment:
ATTAGCYRGGCRTGGTGGC
-GGAGCGGTGG--------

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

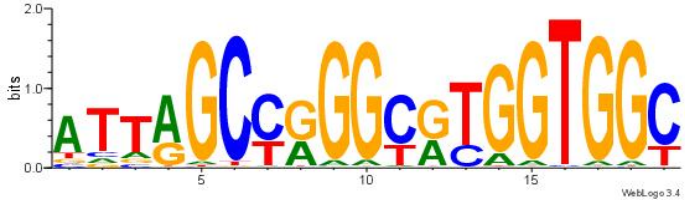

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

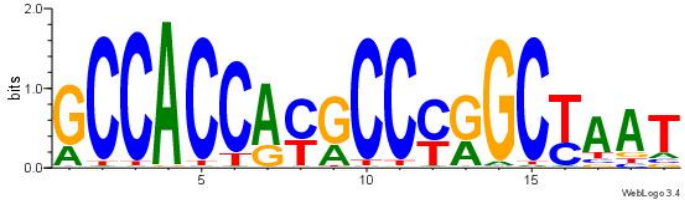

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0519556

Alignment:
GCCTCCTTGAGCTGTGGTGG
-------GGAGCGGTGG---

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

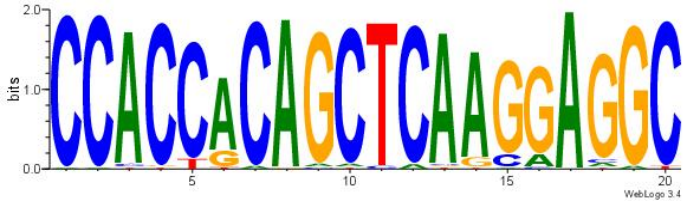

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

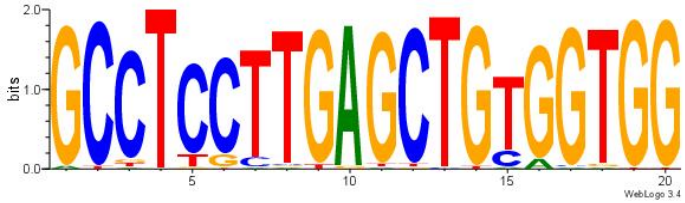

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0687281

Alignment:

```
TAMGACCTCAGGTCCTCAG
-----CCACCGCTCC----
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

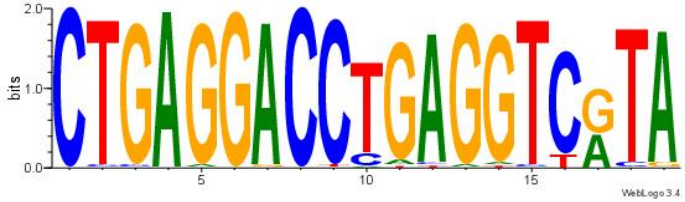

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

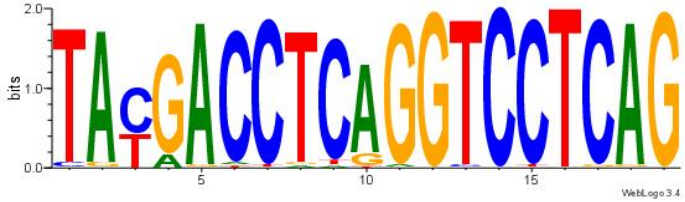

Dataset #:	1
Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0702895

Alignment:

```
GGCAGAGCTGGG
-GGAGCGGTGG-
```

Original motif Consensus sequence: CCCAGCTCTGCC

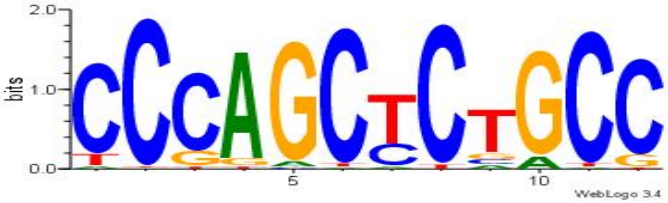

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0719777

Alignment:
TCKMGCCACTGCACTCCAGC
-----CCACCGCTCC-----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

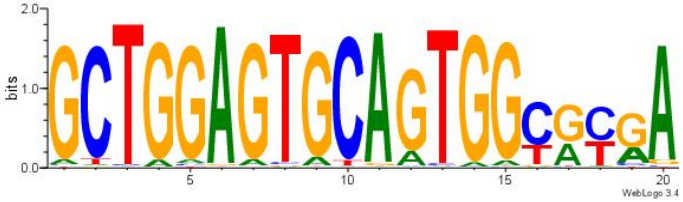

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

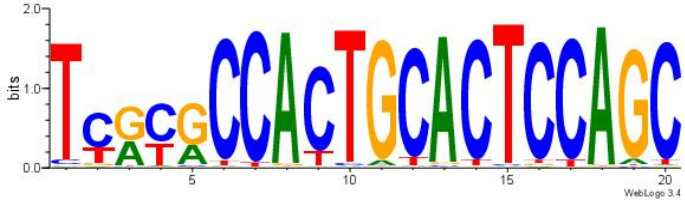

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 10
Similarity score: 0.0721188

Alignment:
AGAGCTCTGGCTGGCATCT
GGAGCGGTGG---------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

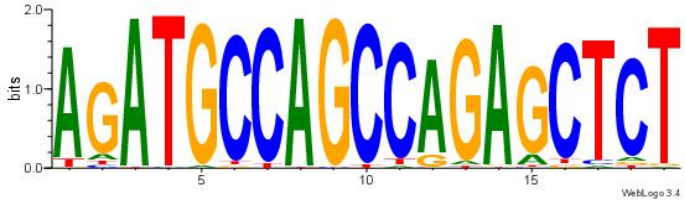

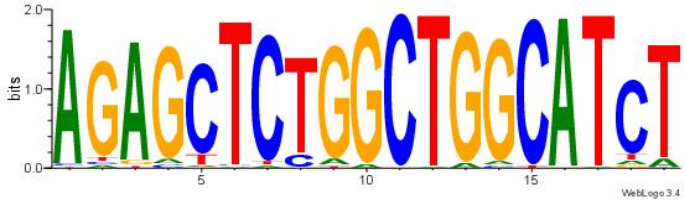

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0723181

Alignment:

```
ATCCATCCATCCATCCA
------CCACCGCTCC-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

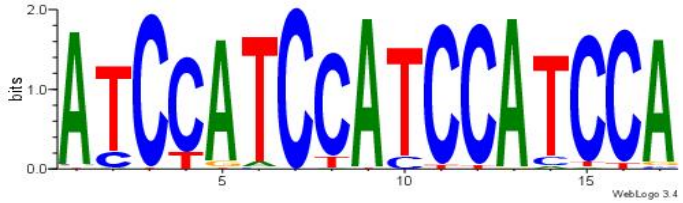

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1

Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0727994

Alignment:

```
GCGGCGGCGGCG
GGAGCGGTGG--
```

Original motif Consensus sequence: CGCCGCCGCCGC

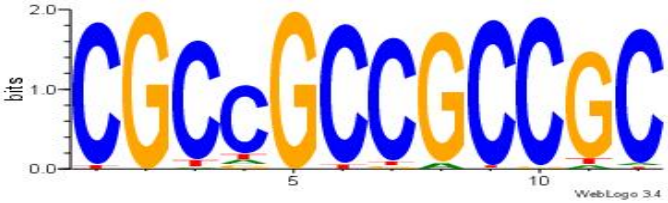

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

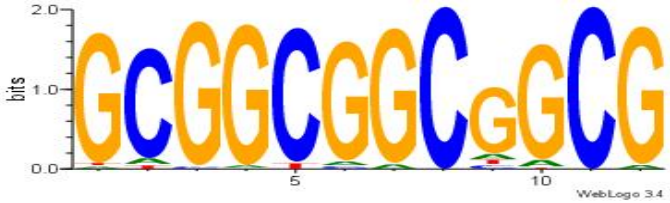

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0729973

Alignment:
ACTGTCTTCCACCTCCACAT
--------CCACCGCTCC--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

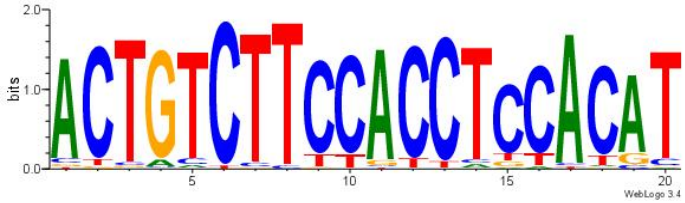

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

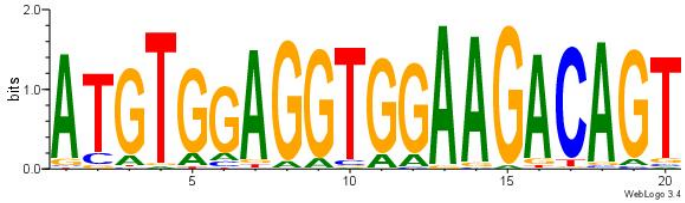

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0735798

Alignment:
GTAGACKGGAGCTGTTCCT
-------GGAGCGGTGG--

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

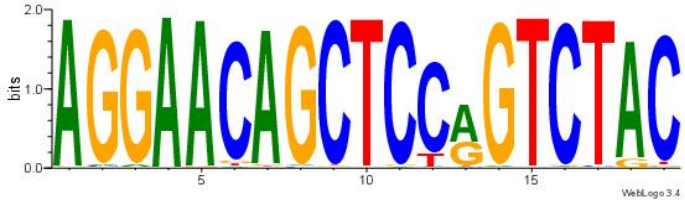

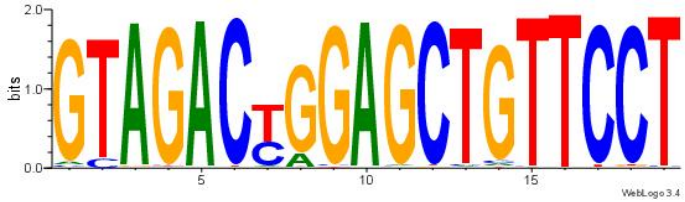

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0741311

Alignment:

```
GGGGGCTGACCCCCCCACC
---------CCACCGCTCC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

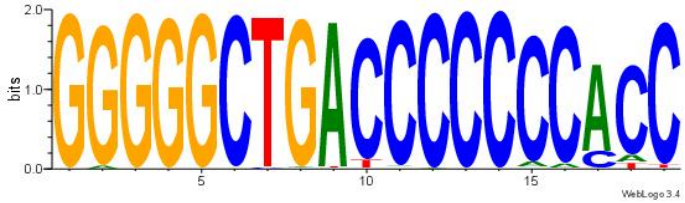

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

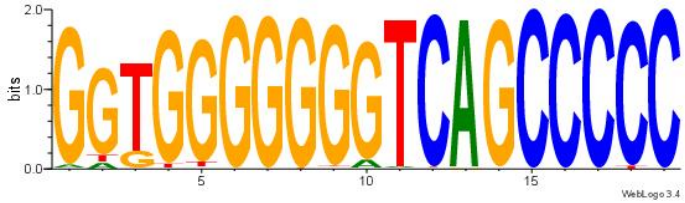

Dataset #:	1

Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0746014

Alignment:

```
CGTCCATCACCCC
---CCACCGCTCC
```

Original motif Consensus sequence: CGTCCATCACCCC

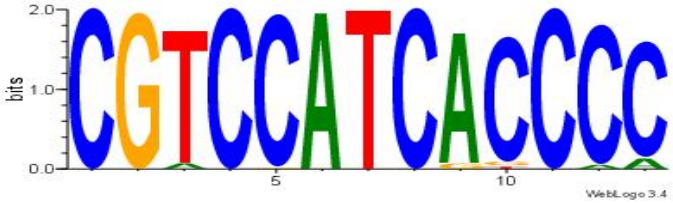

Reverse complement motif Consensus sequence: GGGGTGATGGACG

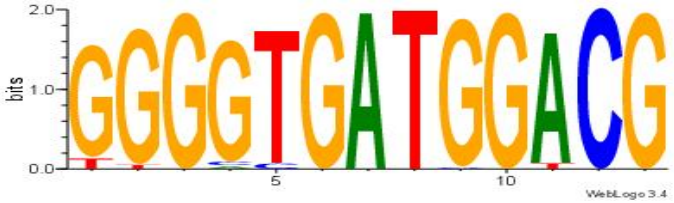

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0766052

Alignment:
GGCTGCGGAGGGTGTA
-----GGAGCGGTGG-

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

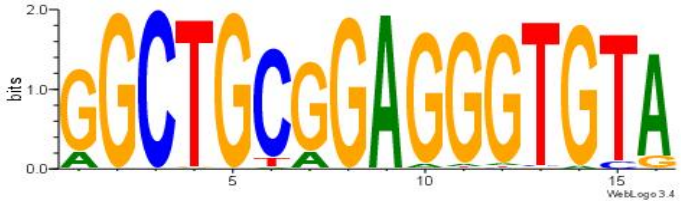

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

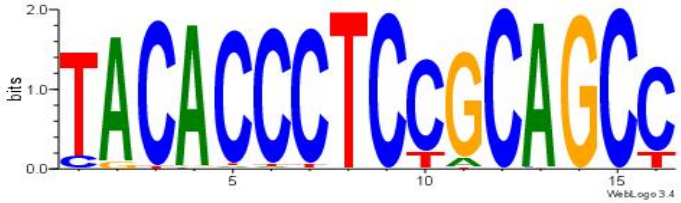

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.078282

Alignment:
TTGGTAGGATCCGTGATGCC
------GGAGCGGTGG----

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

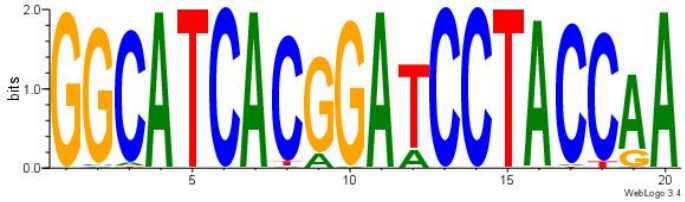

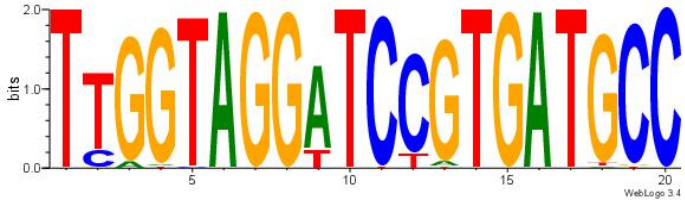

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0787184

Alignment:

```
GGGRSCACAGGAGCD
-GGAGCGGTGG----
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

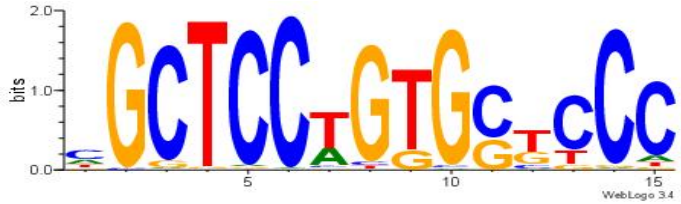

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0789731

Alignment:

```
GTCTGGMGTCTTGG
----GGAGCGGTGG
```

Original motif Consensus sequence: CCAAGACYCCAGAC

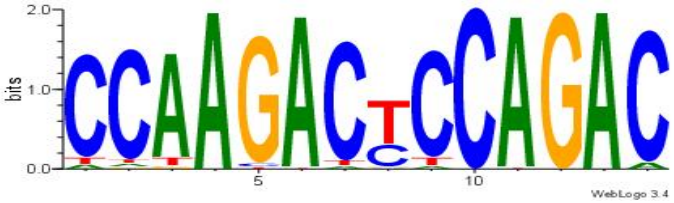

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

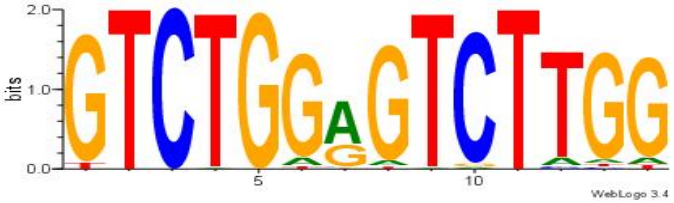

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0800633

Alignment:
GCGMGCGGGAACCGGGGCT
-------GGAGCGGTGG--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

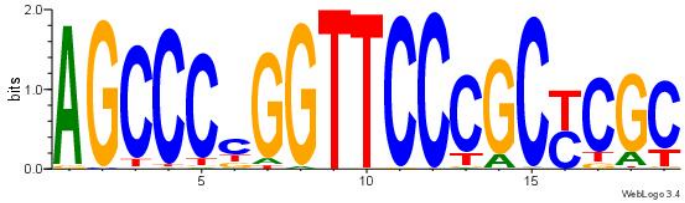

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

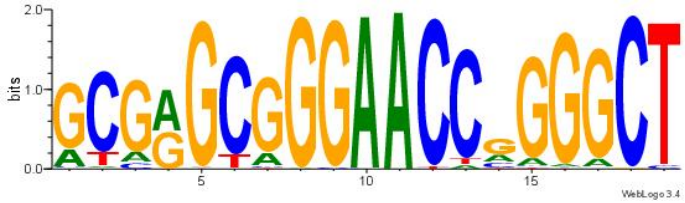

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0809439

Alignment:
TGCACTGCACCCAC
-CCACCGCTCC---

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

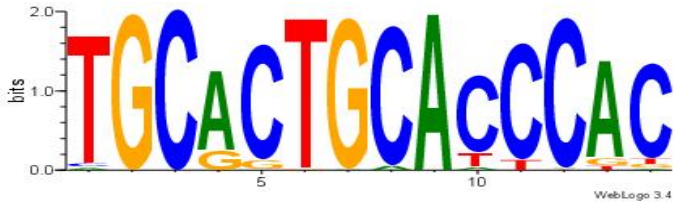

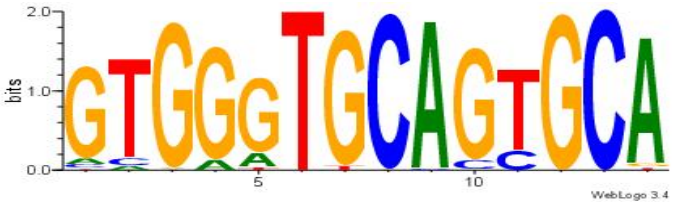

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0813783

Alignment:

```
HAGTGGKATTGCTGGATCAT
-----GGAGCGGTGG-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

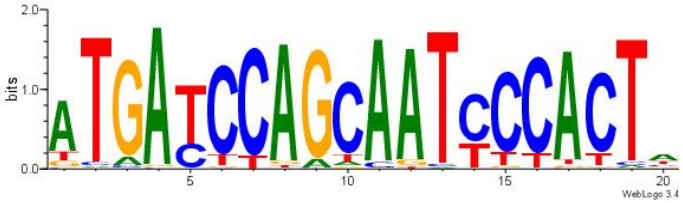

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

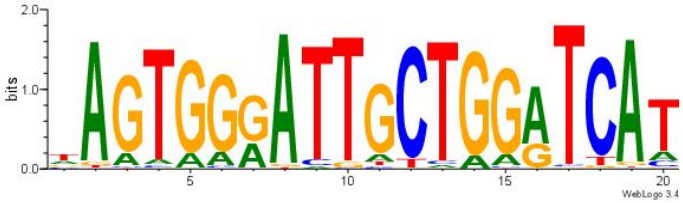

Dataset #:	1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0833106

Alignment:

```
KGGGCDGAGGGGCTCCT
GGAGCGGTGG-------
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

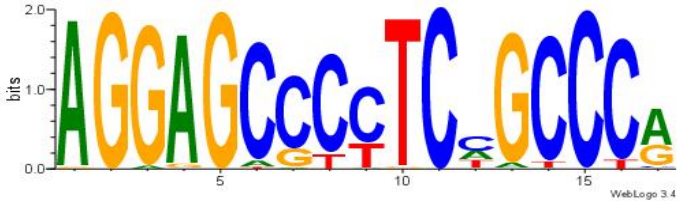

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0833715

Alignment:
GCCRGCCCTGCYGGCC
-CCACCGCTCC-----

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

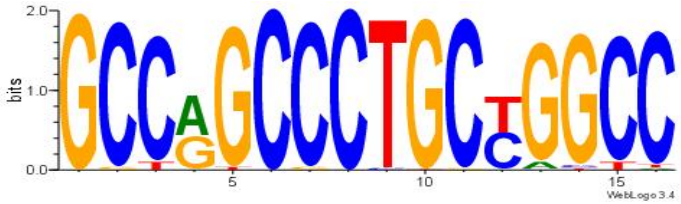

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

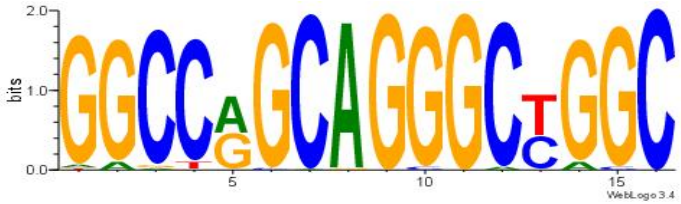

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0835096

Alignment:
CCCMKGGCACCCTCAGTCCT
-CCACCGCTCC---------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

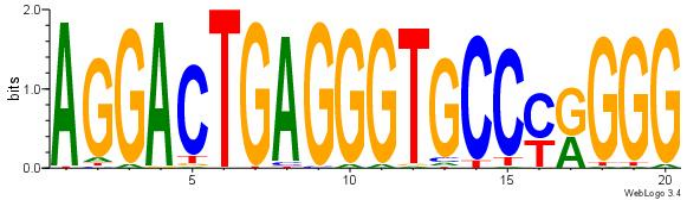

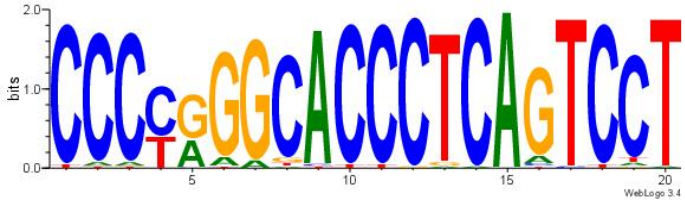

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0869818

Alignment:

```
GCCGGGRAGAGGCGCTCCT
-----GGAGCGGTGG----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

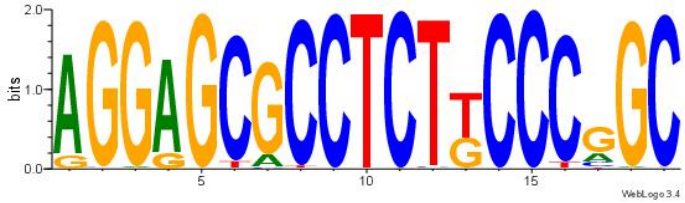

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

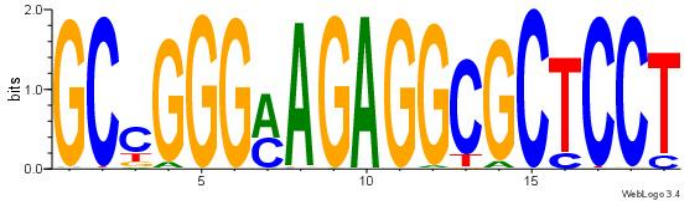

Dataset #: 1

Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0870135

Alignment:

```
GCAGCAGCAGCA
GGAGCGGTGG--
```

Original motif Consensus sequence: GCAGCAGCAGCA

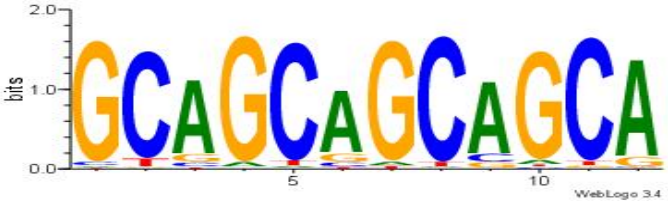

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

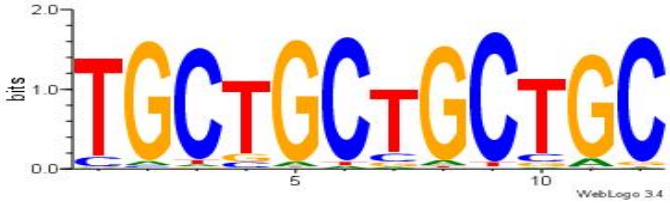

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0873082

Alignment:
GCCKCCCCGTCCGGGAGGGA
---------CCACCGCTCC-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

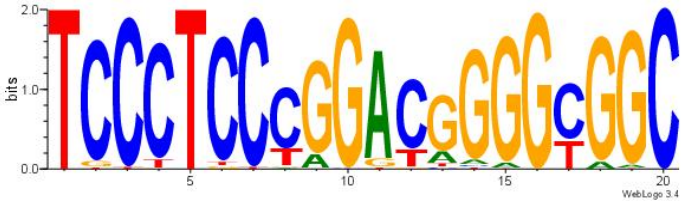

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

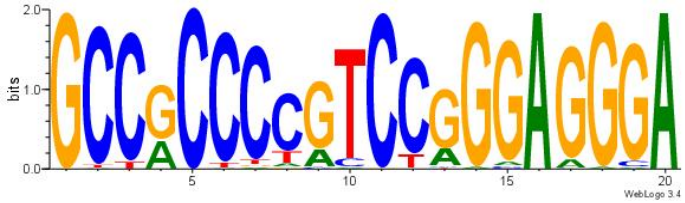

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0874448

Alignment:
CCCCWCCCCCA
CCACCGCTCC-

Original motif Consensus sequence: CCCCWCCCCCA

Reverse complement motif Consensus sequence: TGGGGGWGGGG

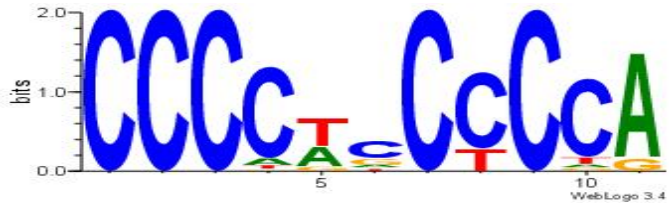

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0882487

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-------GGAGCGGTGG--
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

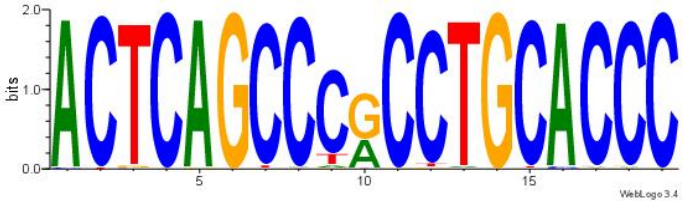

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

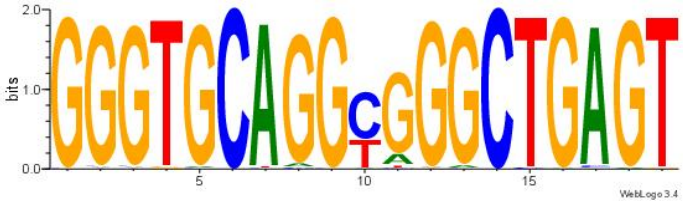

Dataset #: 1

Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0894933

Alignment:

```
GKGGCAGTGAGGC
GGAGCGGTGG---
```

Original motif Consensus sequence: GCCTCACTGCCRC

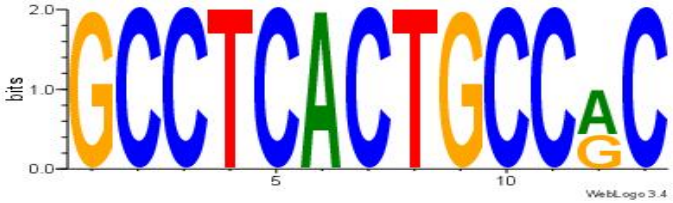

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

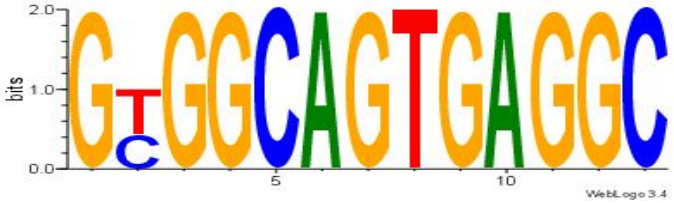

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0895293

Alignment:
GAGACTCCGTGGGCGT
--GGAGCGGTGG----

Original motif Consensus sequence: ACGCCCACGGAGTCTC

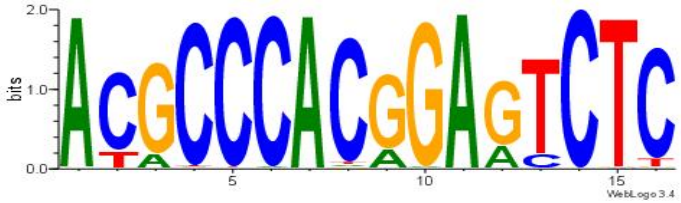

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

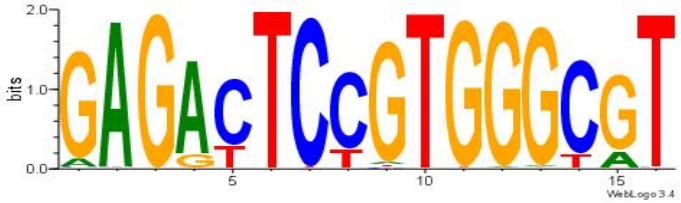

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0907983

Alignment:
ATCTGACAGGAGGYRGAGCT
-------GGAGCGGTGG---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

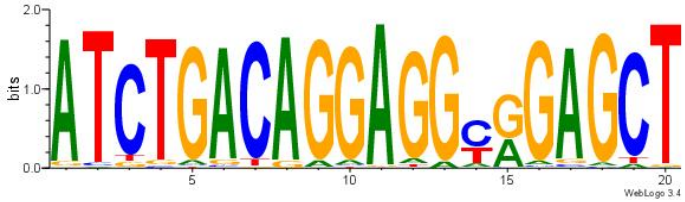

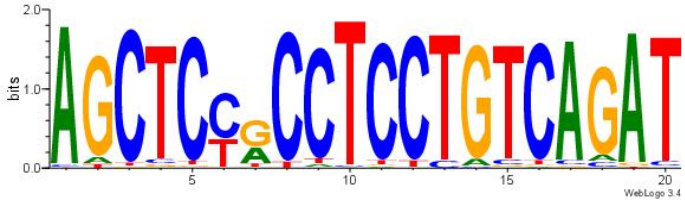

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0913111

Alignment:

```
TCCAAATGGGAGAAATTGGC
--GGAGCGGTGG--------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

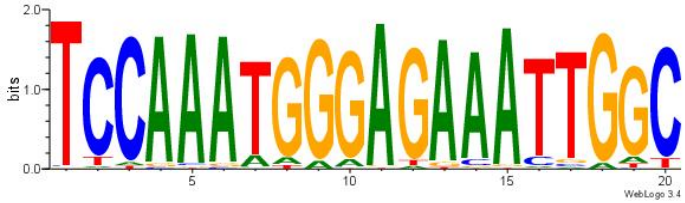

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

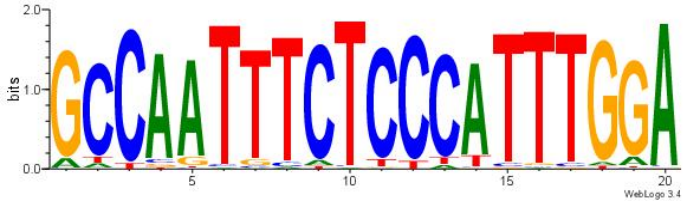

Dataset #: 1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0914686

Alignment:

```
GTCCCATCGACCACCCAAG
-------CCACCGCTCC--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

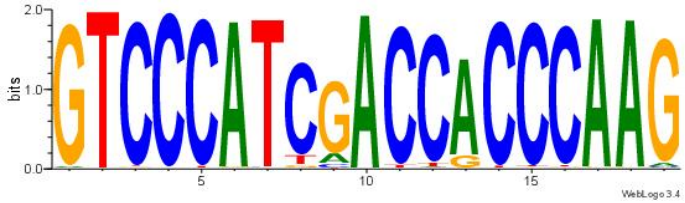

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

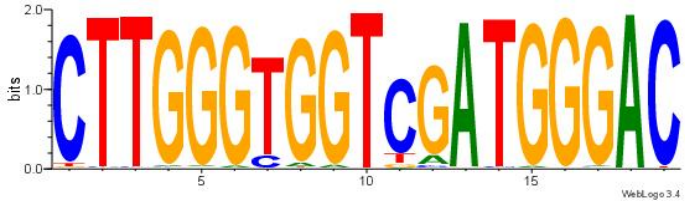

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0916242

Alignment:
GGAGGCKGAGG
-GGAGCGGTGG

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0916339

Alignment:
AGAAATCGAGCRCAGCGCCG
---------CCACCGCTCC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

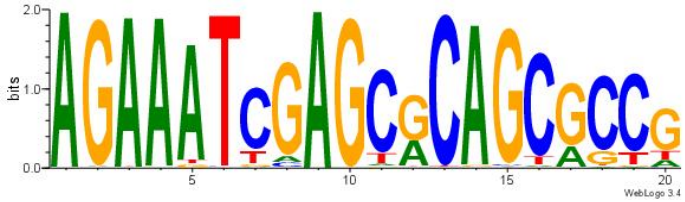

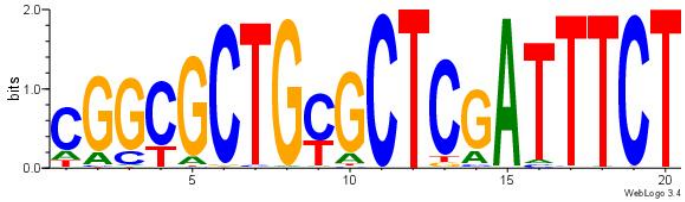

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0922543

Alignment:

```
CCCCAACCCC
CCACCGCTCC
```

Original motif Consensus sequence: CCCCAACCCC

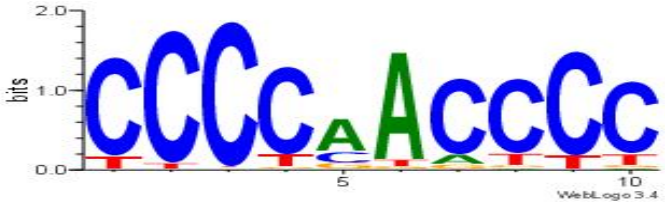

Reverse complement motif Consensus sequence: GGGGTTGGGG

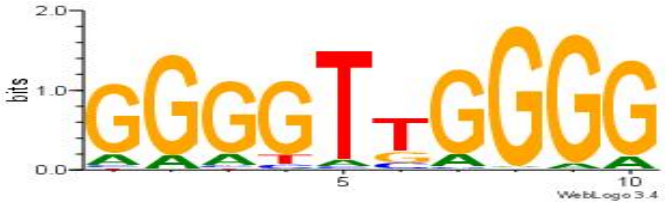

Dataset #:	1
Motif ID:	201

Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0927105

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
---GGAGCGGTGG-------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

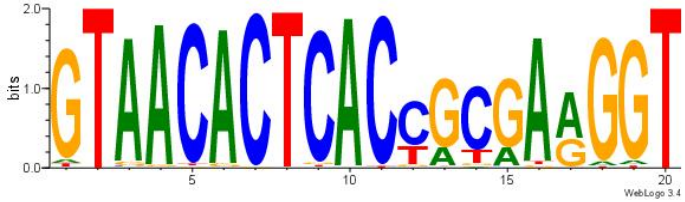

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

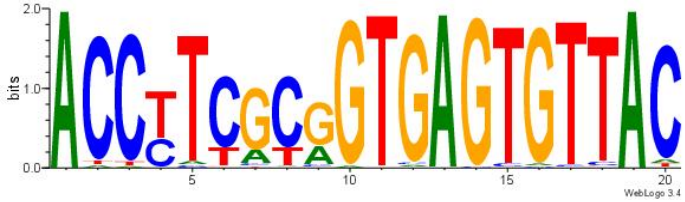

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0927651

Alignment:
GTGTCCCCTTCCTCCC
-CCACCGCTCC-----

Original motif Consensus sequence: GGGAGGAAGGGGACAC

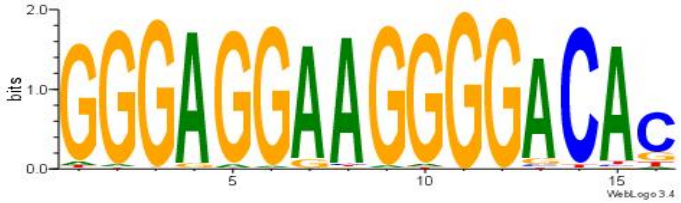

Reverse complement motif Consensus sequence:
GTGTCCCCTTCCTCCC

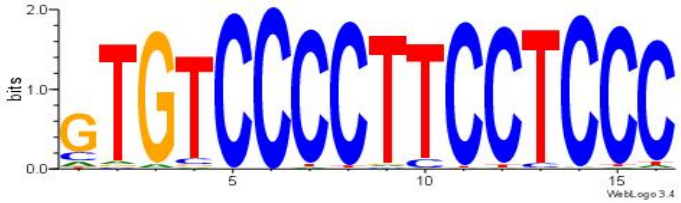

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0928501

Alignment:
AAAAGTCCACAGTCCAAAGT
------CCACCGCTCC----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

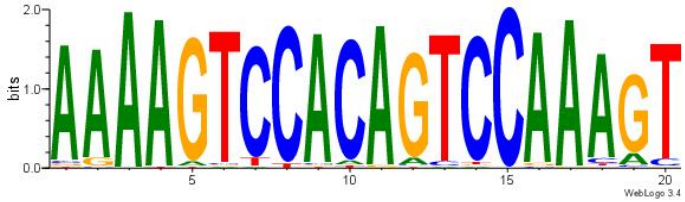

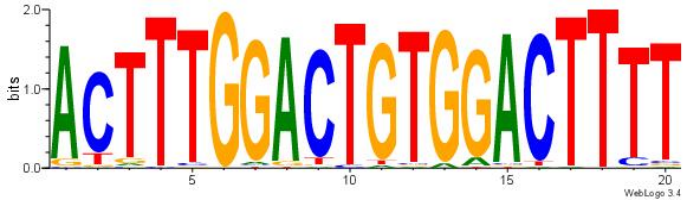

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0929482

Alignment:

```
GGACGCCATGG
-GGAGCGGTGG
```

Original motif Consensus sequence: CCATGGCGTCC

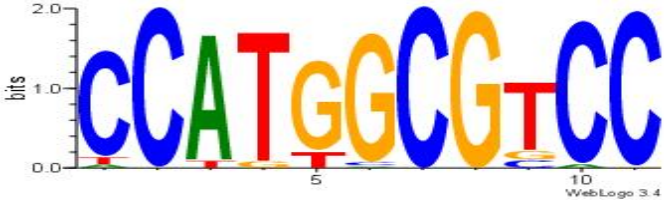

Reverse complement motif Consensus sequence: GGACGCCATGG

Dataset #:	1
Motif ID:	350

Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0931328

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---GGAGCGGTGG-------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

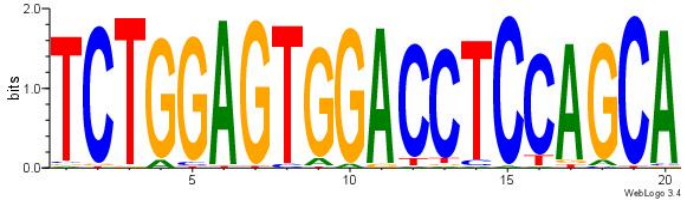

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

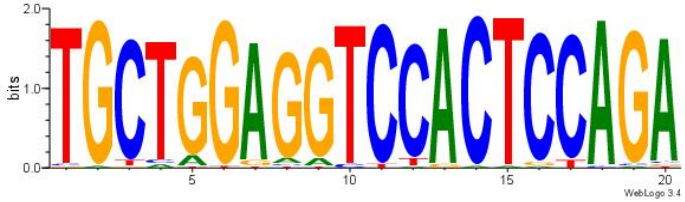

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0933006

Alignment:
TGGACCTGAGAGC
-GGAGCGGTGG--

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

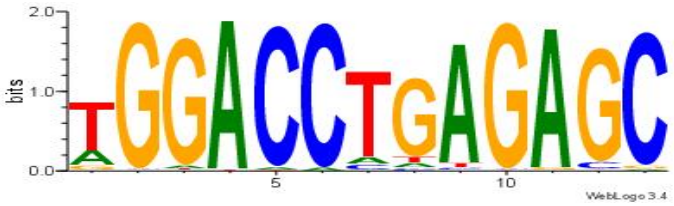

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0938442

Alignment:
MGGAAACTGAGGC
--GGAGCGGTGG-

Original motif Consensus sequence: GCCTCAGTTTCCY

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

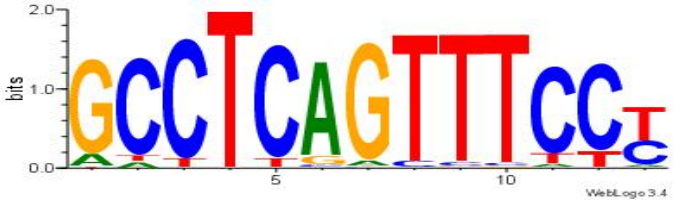

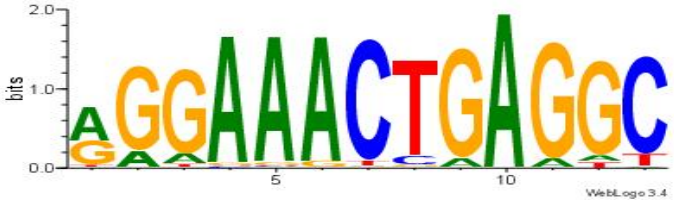

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0938581

Alignment:

```
CCCAAATCTCATSTTGAAT
-CCACCGCTCC--------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

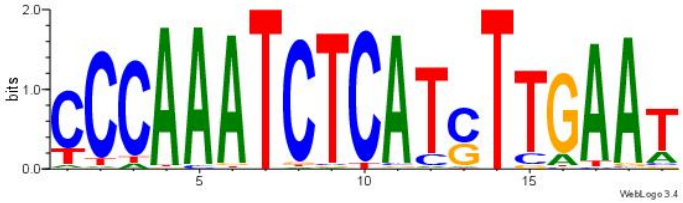

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

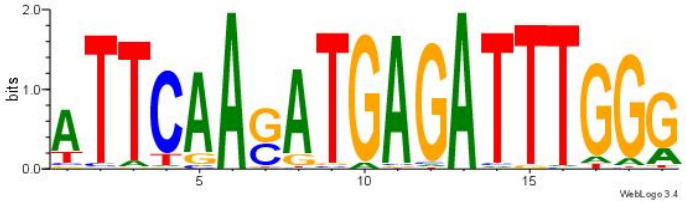

Dataset #: 1

Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0940351

Alignment:

```
CACTGCACTCCAGC
-CCACCGCTCC---
```

Original motif Consensus sequence: CACTGCACTCCAGC

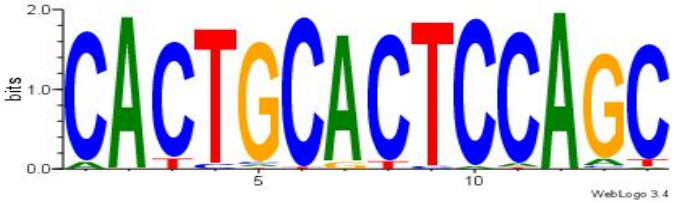

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

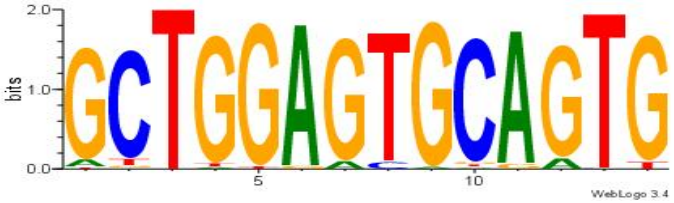

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0942155

Alignment:
TGTAKTCCCAGCTAC
CCACCGCTCC-----

Original motif Consensus sequence: GTAGCTGGGAYTACA

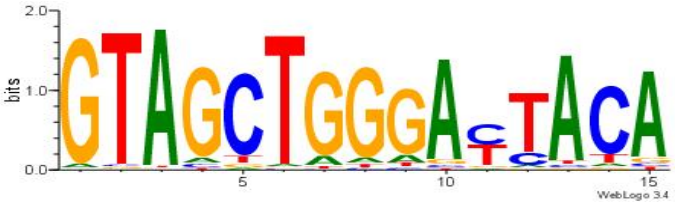

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

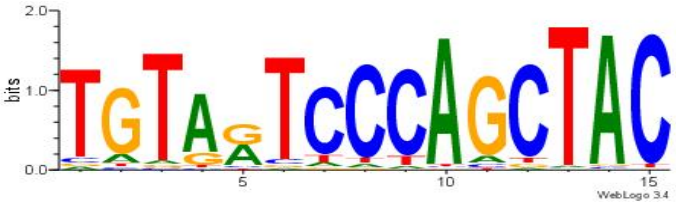

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.09442

Alignment:
GGAGCCGGCTCCCTCAGCTT
--------CCACCGCTCC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

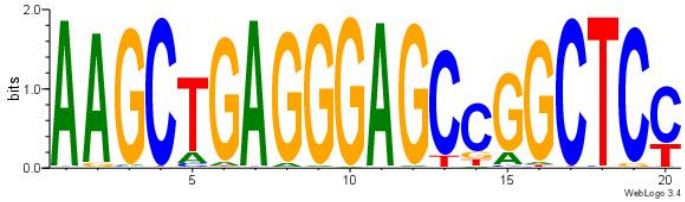

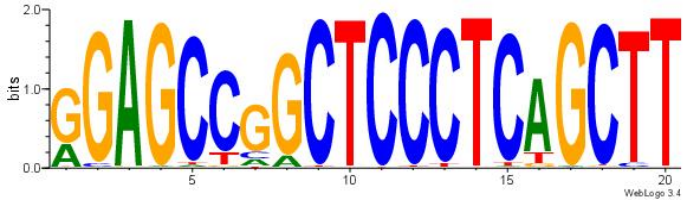

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0947083

Alignment:

```
CCCTCACTGCCCGGGG
CCACCGCTCC------
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

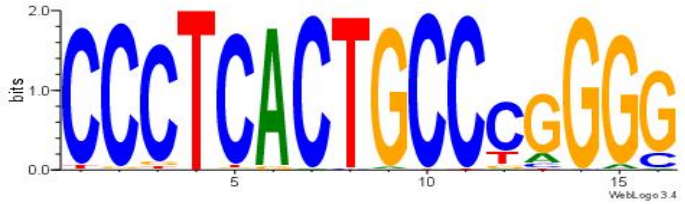

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

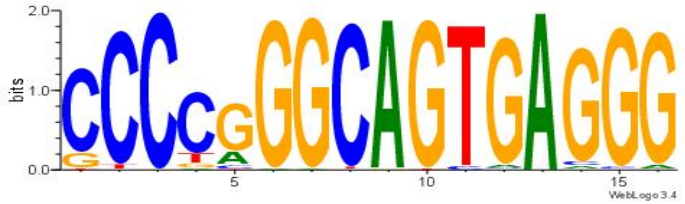

Dataset #: 1 Motif ID: 79 Motif name: Motif 79

Original motif Consensus sequence: AATGAATGAAT

Reverse complement motif Consensus sequence: ATTCATTCATT

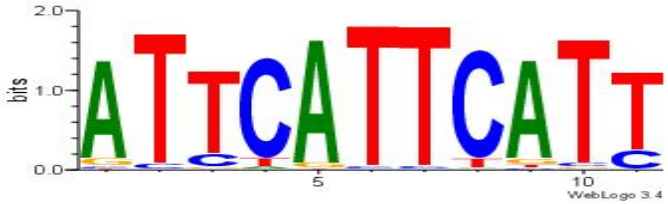

Best Matches for Significant Motif ID 79 (Highest to Lowest)

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0536965

Alignment:

```
TGGATGGATGGATGGAT
--AATGAATGAAT----
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

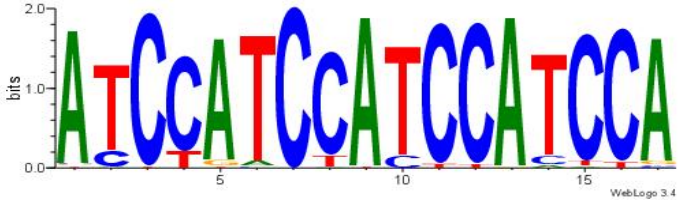

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0549499

Alignment:

```
CGGCTTCATTCTTGAAGTC
---ATTCATTCATT-----
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

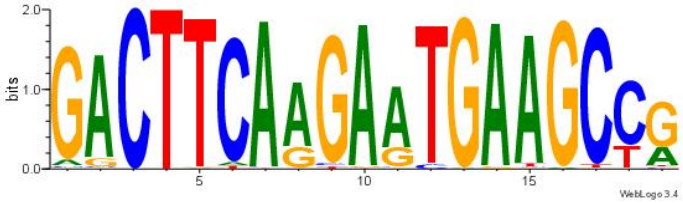

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

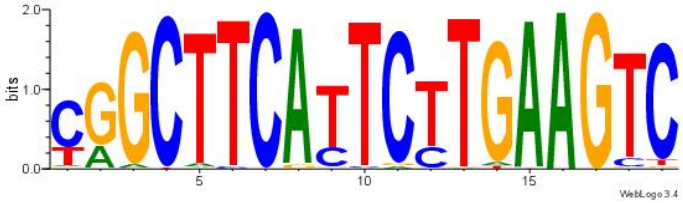

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7

Number of overlap: 11
Similarity score: 0.0557571

Alignment:
CAAAGTCTTAACTCATT
------ATTCATTCATT

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

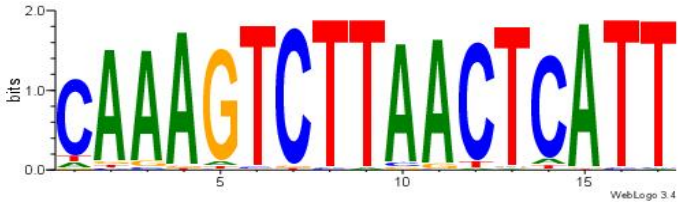

Dataset #: 1
Motif ID: 241
Motif name: Motif 241
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0618186

Alignment:
GCACTGAGTGAACGA
--AATGAATGAAT--

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGT

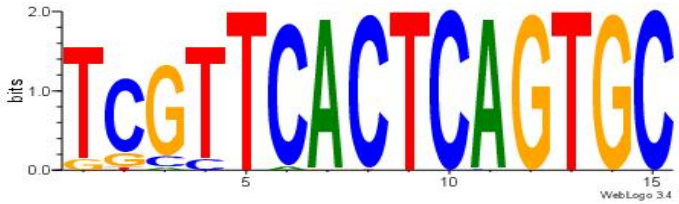

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0646429

Alignment:

```
CAACATGGATGRARCTGGAG
---AATGAATGAAT------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

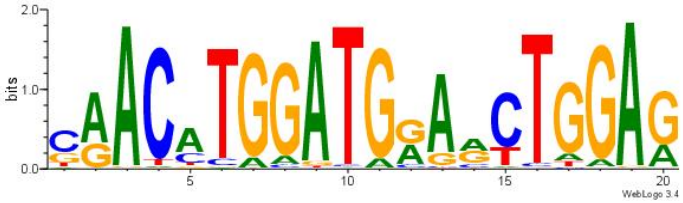

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

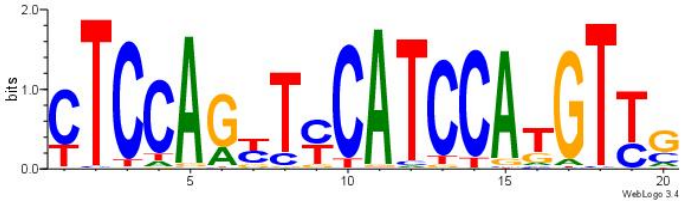

Dataset #:	1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.066176

Alignment:

```
GGTTTTCCATTCCTGAG
----ATTCATTCATT--
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

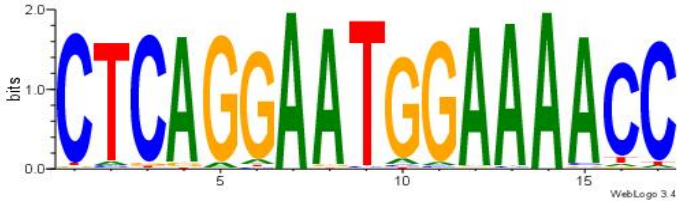

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

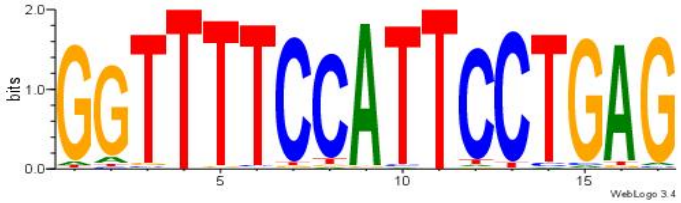

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0672434

Alignment:
CAATGATAGACTGGAT
-AATGAATGAAT----

Original motif Consensus sequence: ATCCAGTCTATCATTG

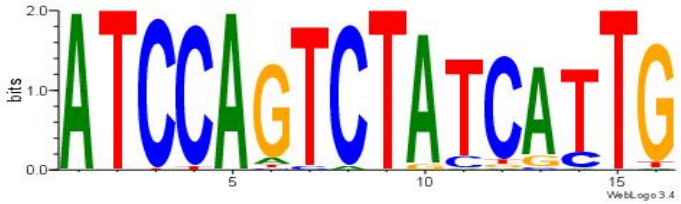

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

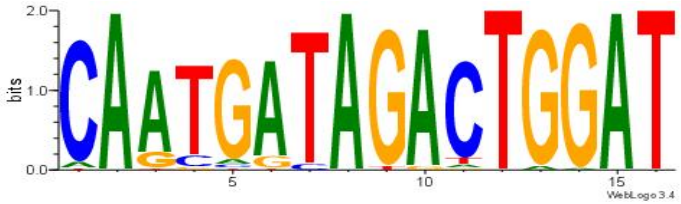

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0714479

Alignment:
GTTGTGAGGATTAAATGAG
-----AATGAATGAAT---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

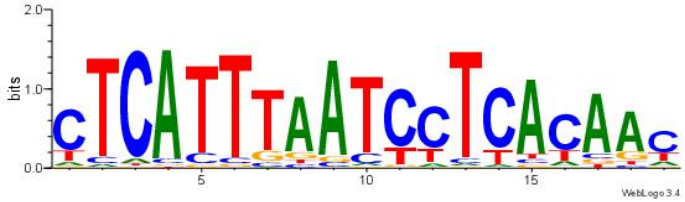

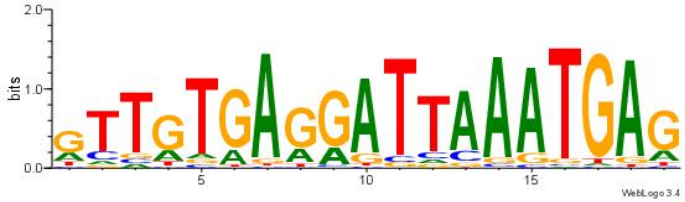

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0724247

Alignment:

```
AGAGCCAAATCATGARTGAA
------AATGAATGAAT---
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

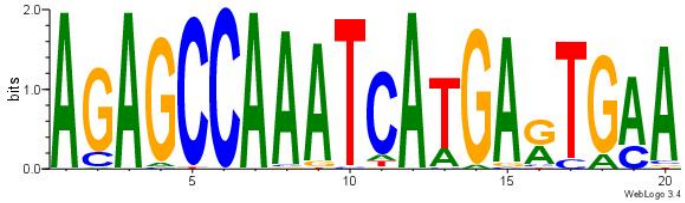

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

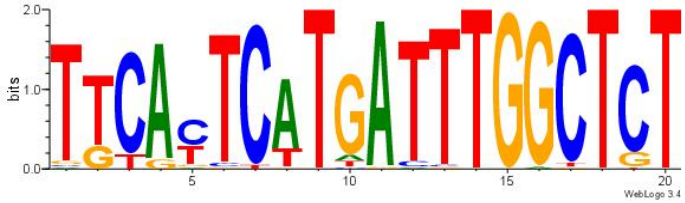

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0725952

Alignment:

```
AAGGAACAAACTCCRGACAC
AATGAATGAAT---------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

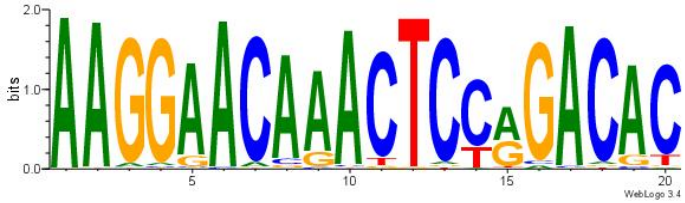

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

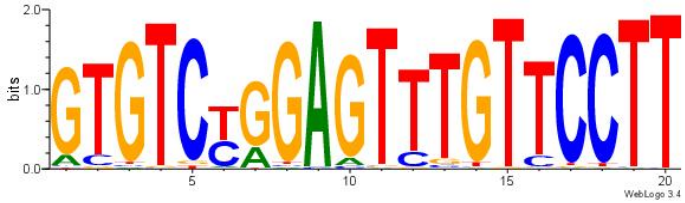

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0730058

Alignment:
GCAGCTTCACTCCTGA
----ATTCATTCATT-

Original motif Consensus sequence: GCAGCTTCACTCCTGA

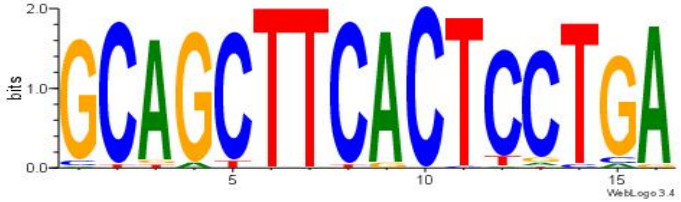

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

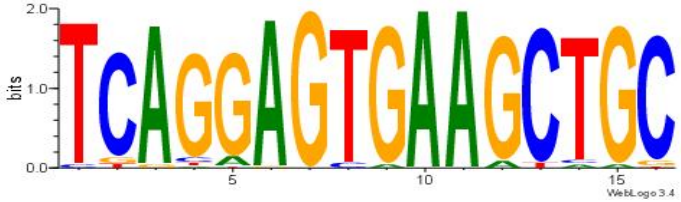

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0733684

Alignment:
GCAAAKGACATGATYTCATT
---------ATTCATTCATT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

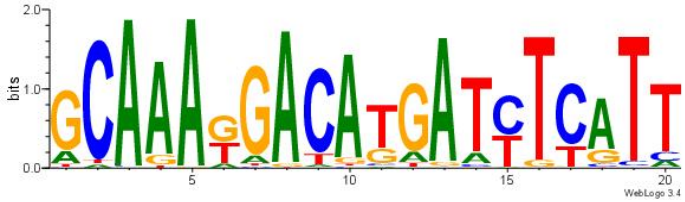

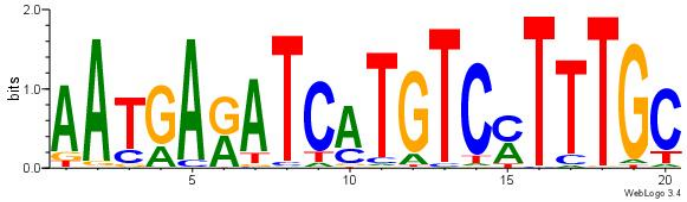

Dataset #:	1
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0755975

Alignment:

```
AAGATGGCCGAAT
--AATGAATGAAT
```

Original motif Consensus sequence: AAGATGGCCGAAT

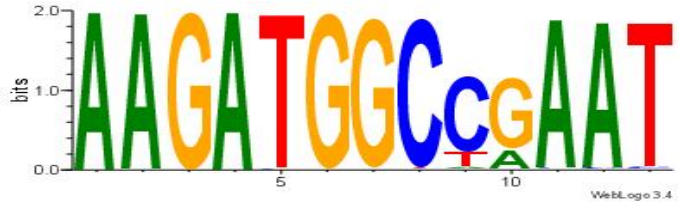

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

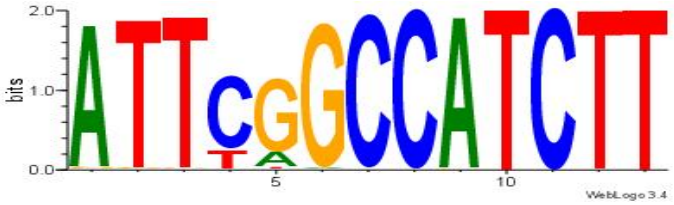

Dataset #:	1
Motif ID:	254

Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0769954

Alignment:

```
ATAGGAATGCTTGTGATTTT
-AATGAATGAAT--------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

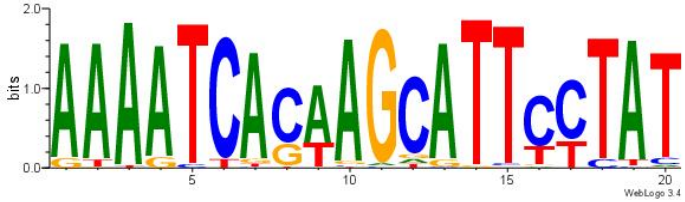

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

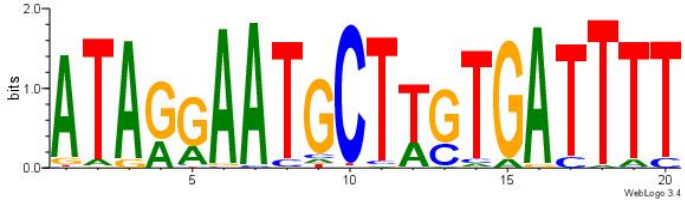

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0770637

Alignment:
KACATTGATTTTGTATC
---ATTCATTCATT---

Original motif Consensus sequence: GATACAAAATCAATGTR

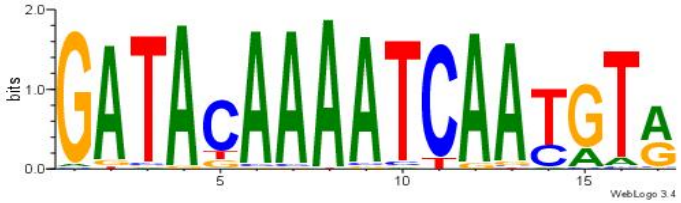

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

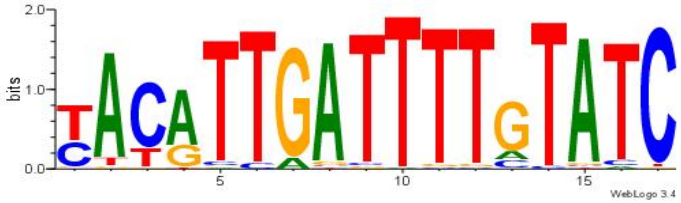

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0775803

Alignment:
ATGATTCCATTT
ATTCATTCATT-

Original motif Consensus sequence: AAATGGAATCAT

Reverse complement motif Consensus sequence: ATGATTCCATTT

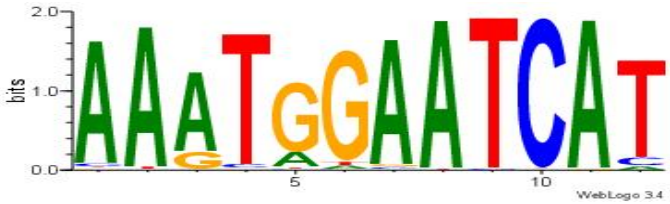

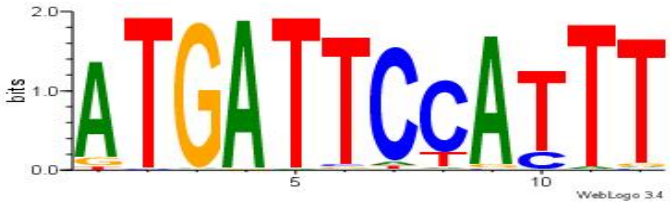

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0777492

Alignment:

```
TCCAAATGGGAGAAATTGGC
----AATGAATGAAT-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

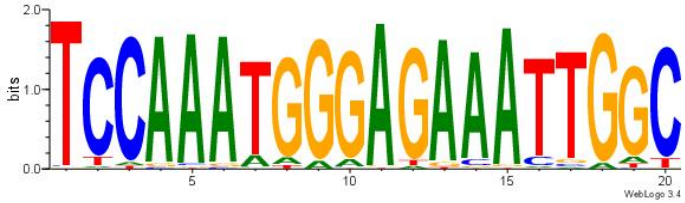

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

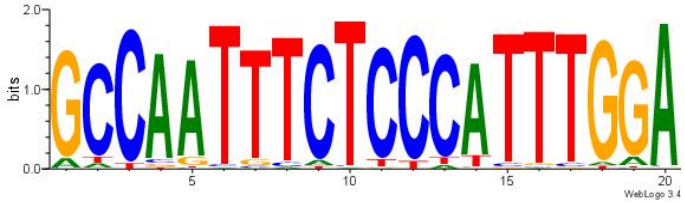

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0777789

Alignment:

```
AGTAGGTGCTCARTAAATRB
-------AATGAATGAAT--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

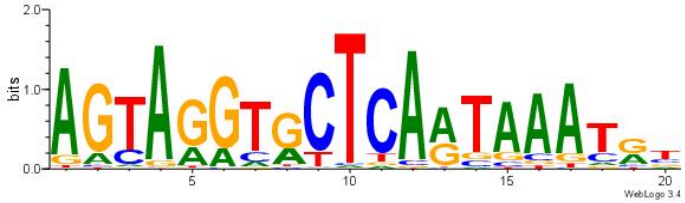

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

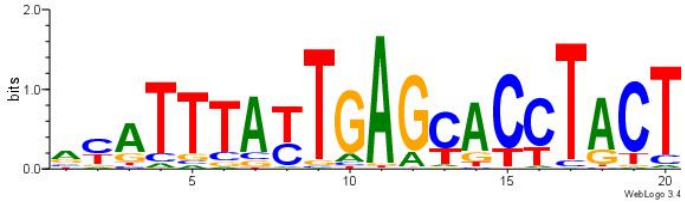

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0782253

Alignment:
CTGGCCCTCAATGGTTAAAC
---------AATGAATGAAT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

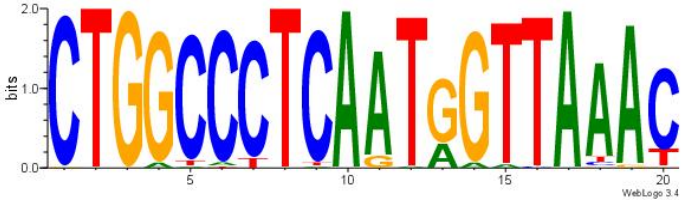

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

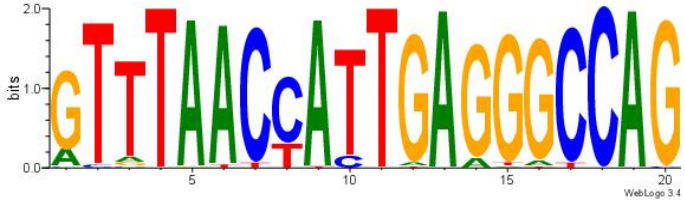

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0786536

Alignment:
ATTGGTGTATTTACAATCCC
ATTCATTCATT---------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

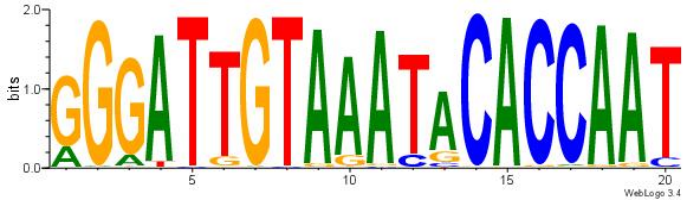

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0786668

Alignment:

```
ACTTTCAGGCATAACA
--ATTCATTCATT---
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

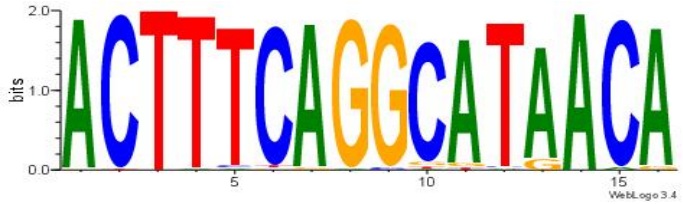

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

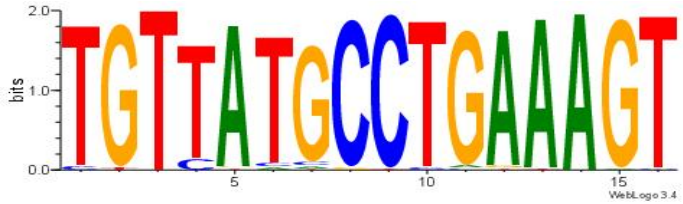

Dataset #:	1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0808364

Alignment:

```
WACAATCAGACCTTG
---ATTCATTCATT-
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

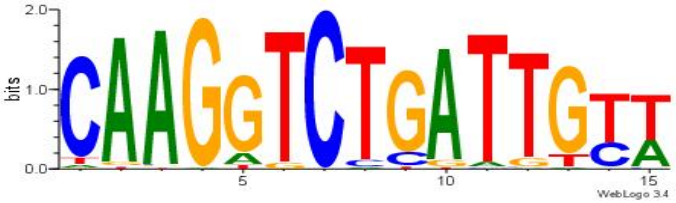

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0809475

Alignment:
AAYRGACTAATACA
AATGAATGAAT---

Original motif Consensus sequence: AAYRGACTAATACA

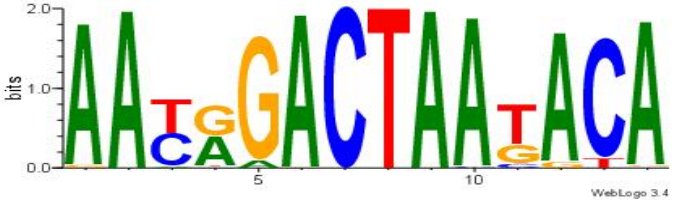

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

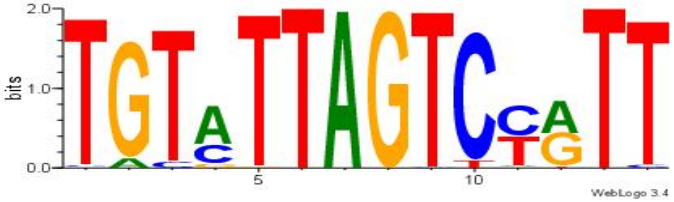

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0813319

Alignment:
AATGACCAATTGAGAGC
AATGAATGAAT------

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

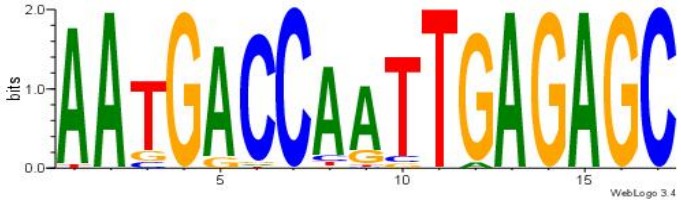

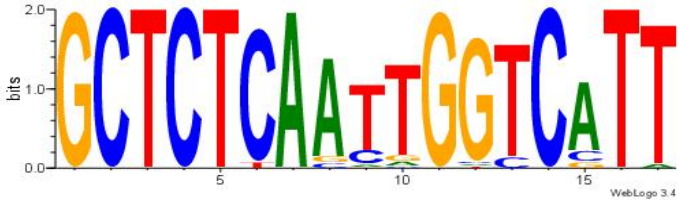

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0834469

Alignment:

```
CKAGTCAAAGAAA
--AATGAATGAAT
```

Original motif Consensus sequence: CKAGTCAAAGAAA

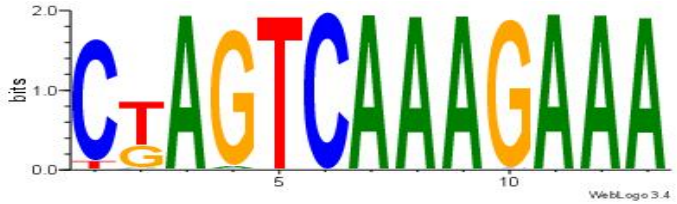

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

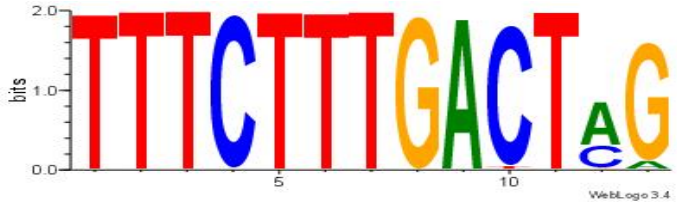

Dataset #:	1
Motif ID:	348

Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0845927

Alignment:

```
ATGGCCTATGACYGSTTTG
------AATGAATGAAT--
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

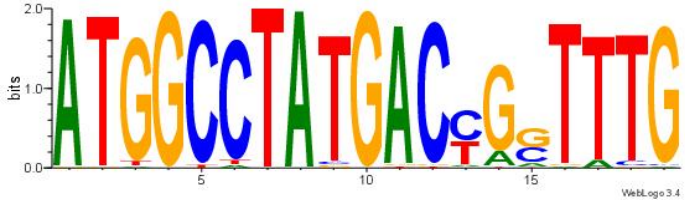

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

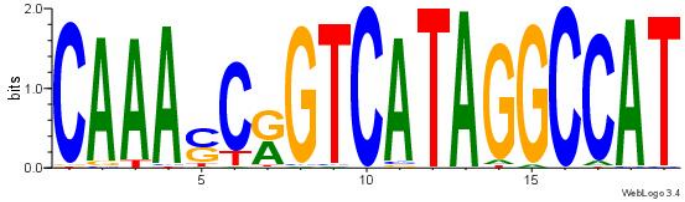

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.084845

Alignment:
AGTGAGAACATRYRRTRTTT
ATTCATTCATT---------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

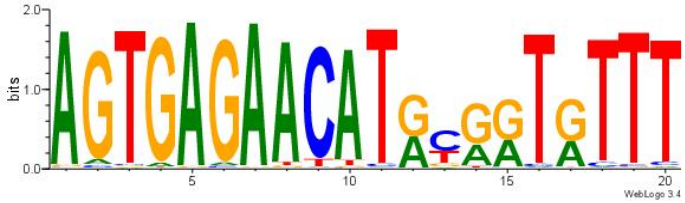

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

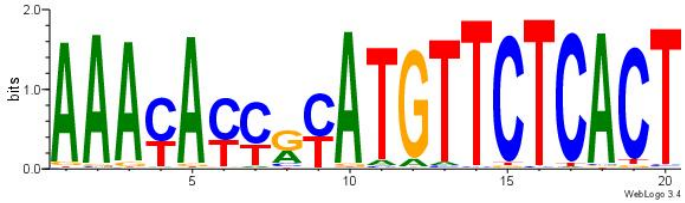

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0855946

Alignment:
TGGCTTCACCCAGTGGATCC
---ATTCATTCATT------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

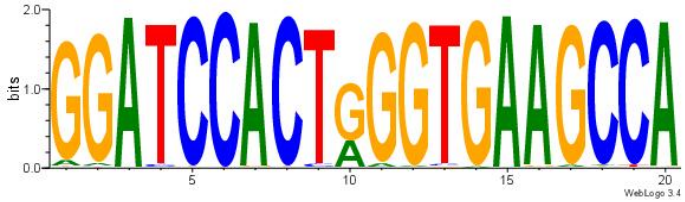

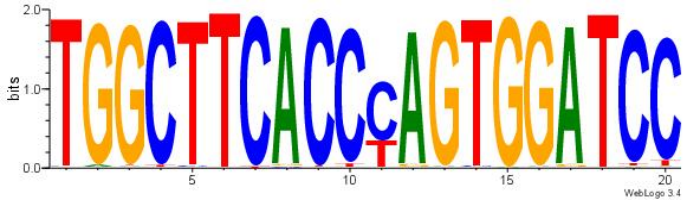

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0867654

Alignment:

```
TGATGGGTGCACCAAA
-AATGAATGAAT----
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

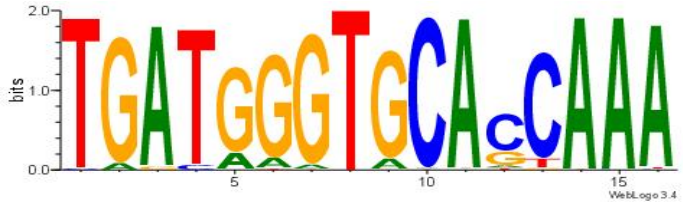

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

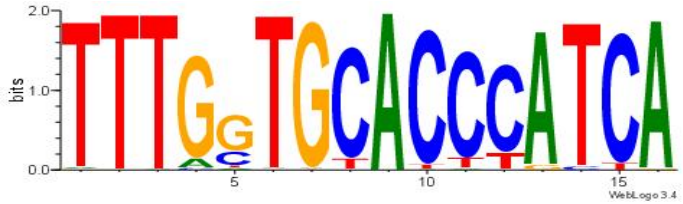

Dataset #:	1

Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0873636

Alignment:

```
AATAAATATTT
AATGAATGAAT
```

Original motif Consensus sequence: AAATATTTATT

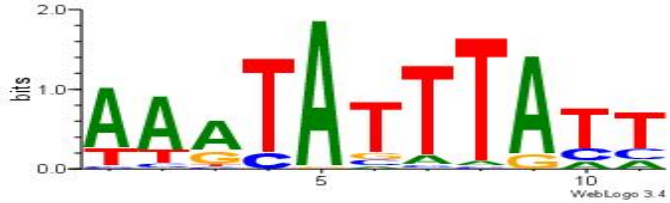

Reverse complement motif Consensus sequence: AATAAATATTT

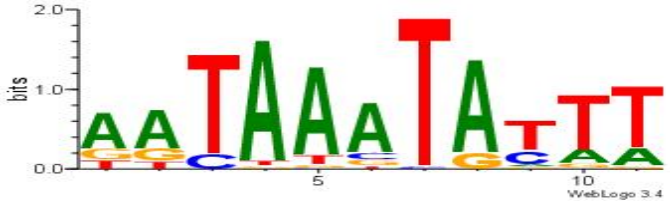

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0887896

Alignment:
TTTTTTTMTTT
ATTCATTCATT

Original motif Consensus sequence: AAAYAAAAAAA

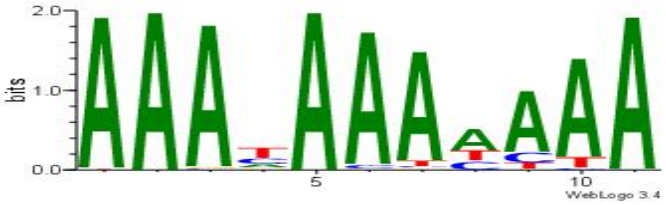

Reverse complement motif Consensus sequence: TTTTTTTMTTT

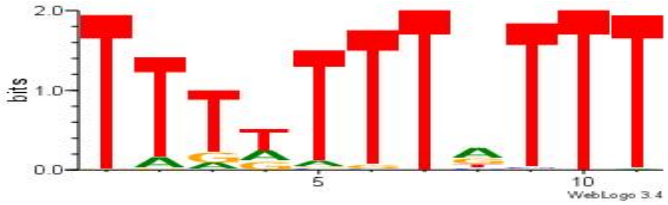

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0889401

Alignment:
ATGATCCAGCAATYCCACTH
---ATTCATTCATT------

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

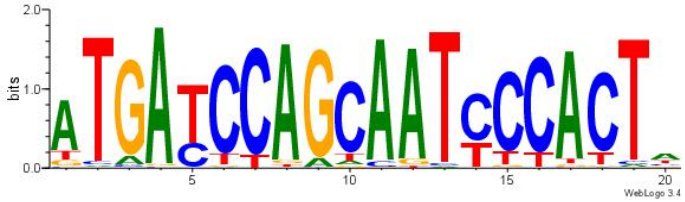

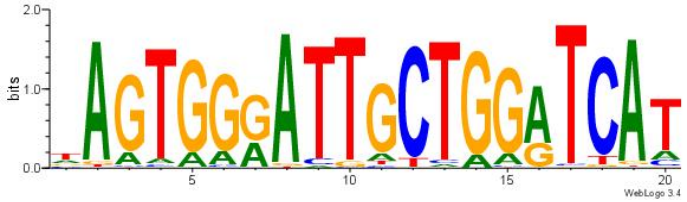

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897277

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-ATTCATTCATT--------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

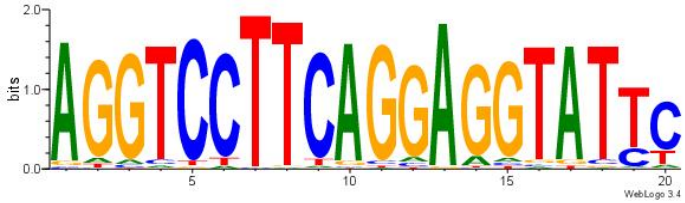

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

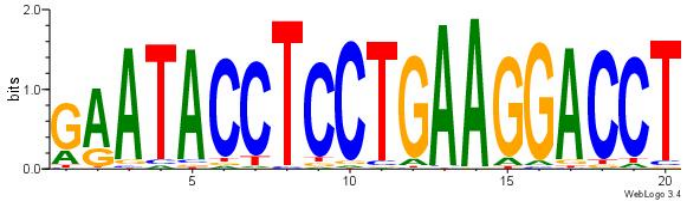

Dataset #: 1

Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0898882

Alignment:

```
CTGGTCAAGGAAA
--AATGAATGAAT
```

Original motif Consensus sequence: CTGGTCAAGGAAA

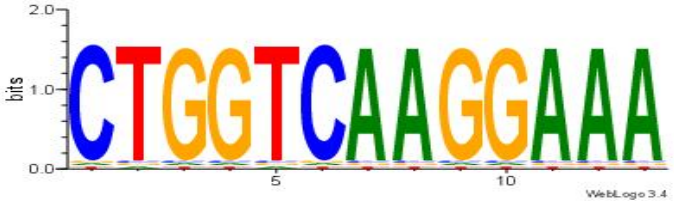

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

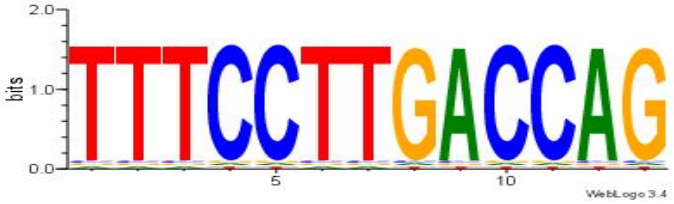

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.089905

Alignment:
AAATTAGGCCAATTAATAAC
------AATGAATGAAT---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

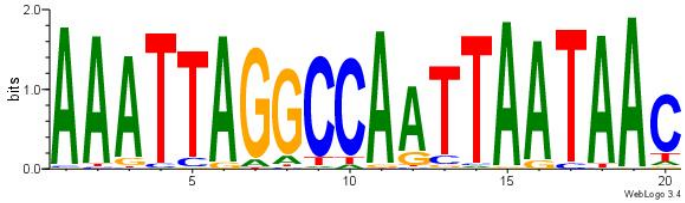

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0902281

Alignment:
CCATGATTGTRAGG
-AATGAATGAAT--

Original motif Consensus sequence: CCATGATTGTRAGG

Reverse complement motif Consensus sequence: CCTMACAATCATG

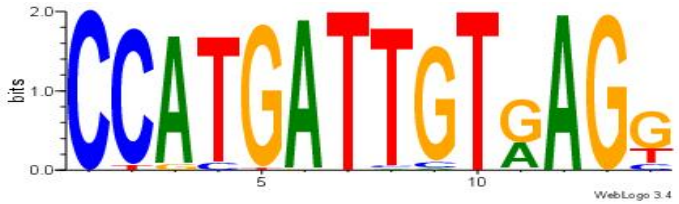

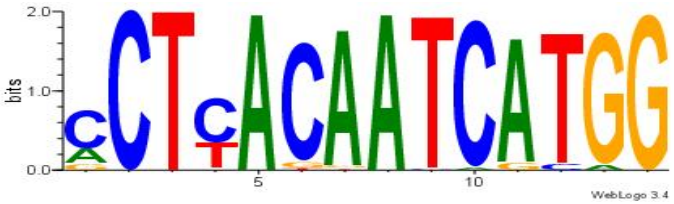

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.090238

Alignment:

```
ATATTGATGATCCTGACC
-AATGAATGAAT------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

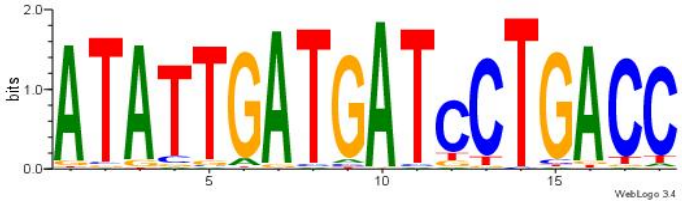

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

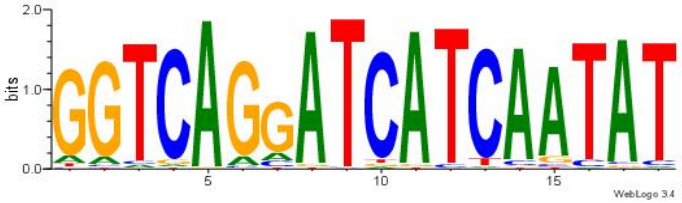

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0914852

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-------ATTCATTCATT--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

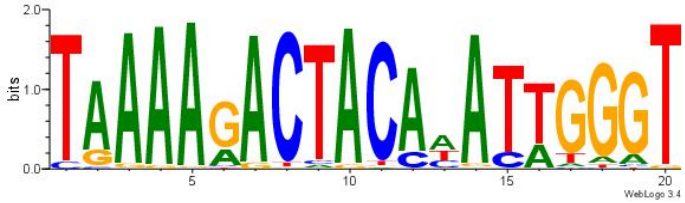

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

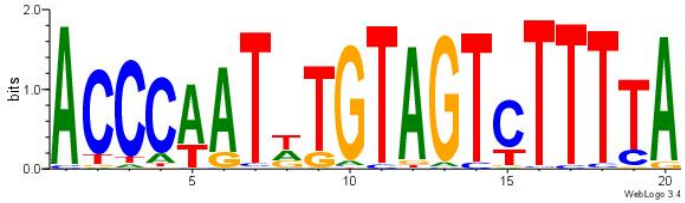

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0921411

Alignment:
AAGAGGTTTAATTGRCTCA
------ATTCATTCATT--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

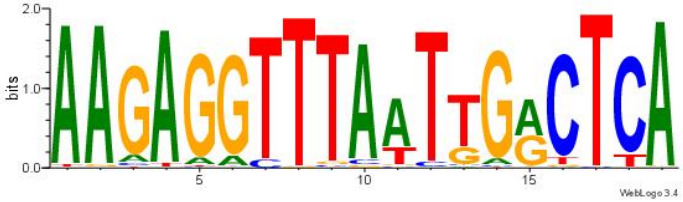

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

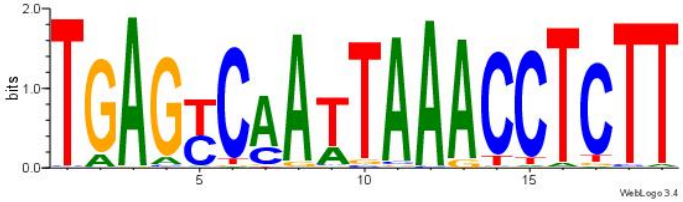

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0925507

Alignment:
AAGCTCGAACTGGGTGGAGC
--------AATGAATGAAT-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

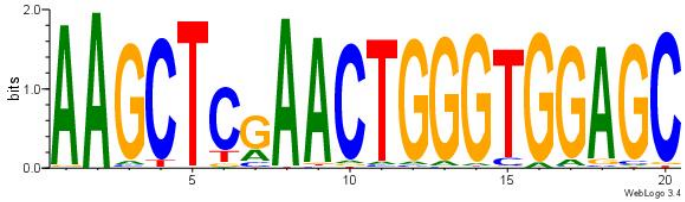

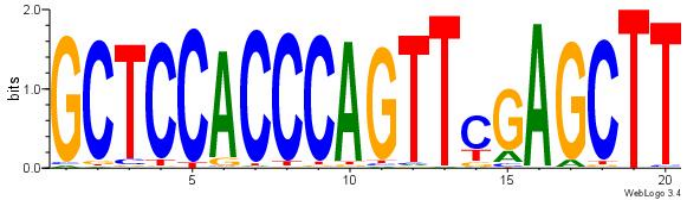

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0928243

Alignment:

```
AATTAAAAGACACAGACTG
AATGAATGAAT--------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

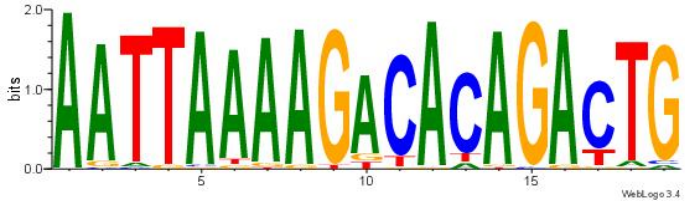

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

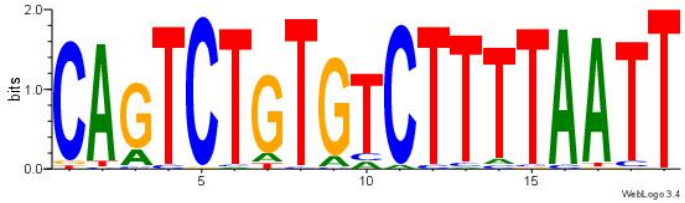

Dataset #: 1

Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0930979

Alignment:

```
TTTCTTTTCCTT
-ATTCATTCATT
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

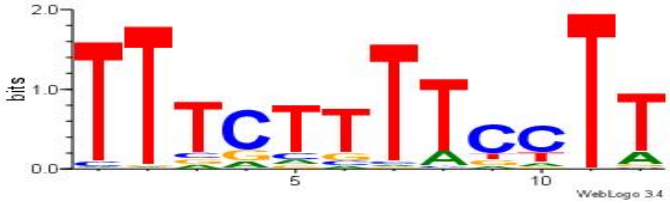

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0933606

Alignment:
AATCAACCCTGGYRATCAAT
ATTCATTCATT---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

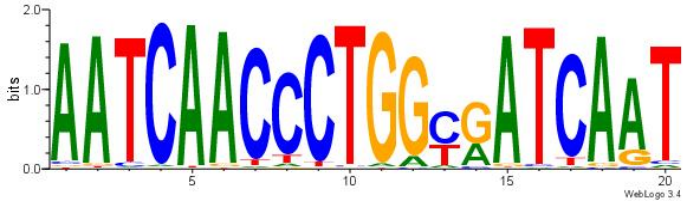

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

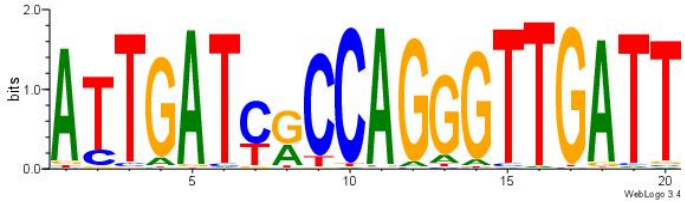

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0935019

Alignment:
GGGAGGGATATATTAGC
--AATGAATGAAT----

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence:
GCTAATATATCCCTCCC

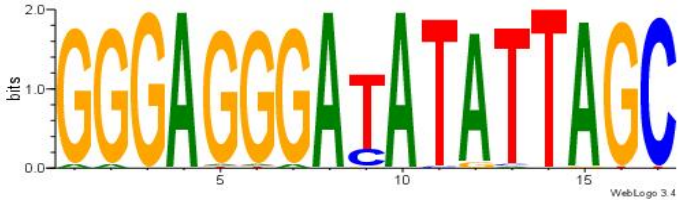

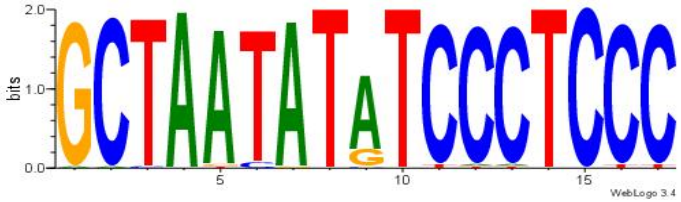

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.093531

Alignment:

```
GAGAACACATGGACA
---AATGAATGAAT-
```

Original motif Consensus sequence: GAGAACACATGGACA

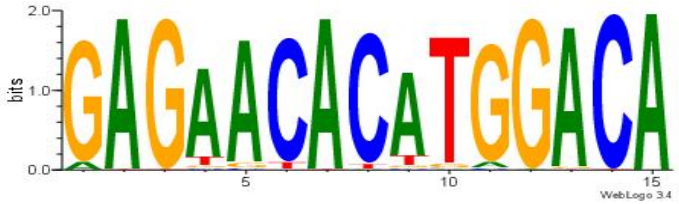

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

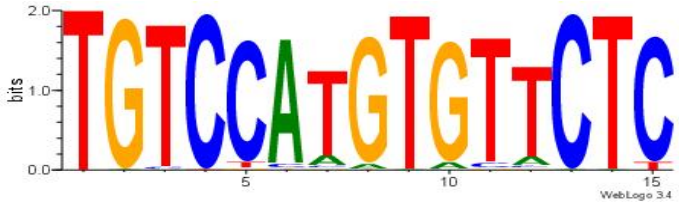

Dataset #:	1
Motif ID:	326

Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0937054

Alignment:

```
GACATGGAGTCAAAGG
---ATTCATTCATT--
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

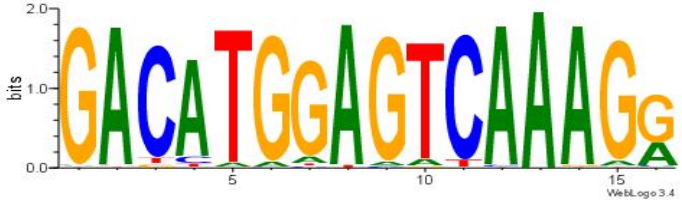

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

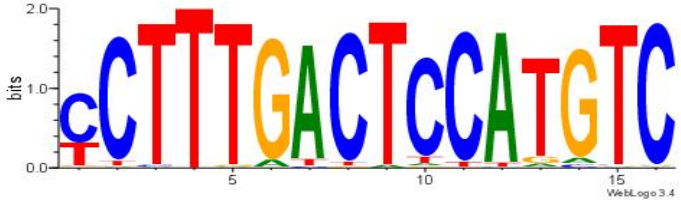

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0942734

Alignment:
GTCTCWAMAAAAAAWAMAAA
--------AATGAATGAAT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

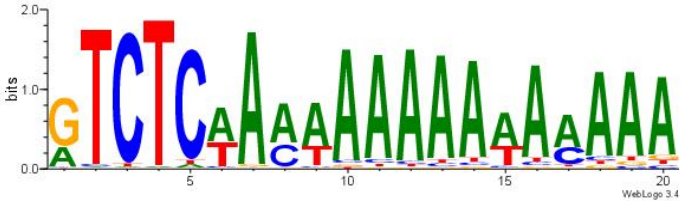

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

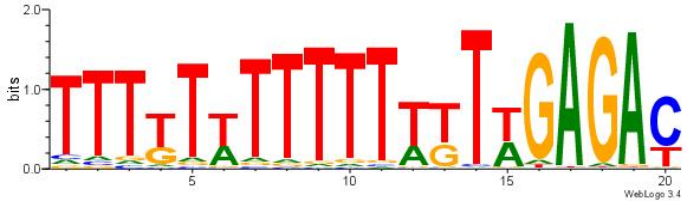

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0945991

Alignment:
TTTGTACCCATTA
-ATTCATTCATT-

Original motif Consensus sequence: TAATGGGTACAAA

Reverse complement motif Consensus sequence: TTTGTACCCATTA

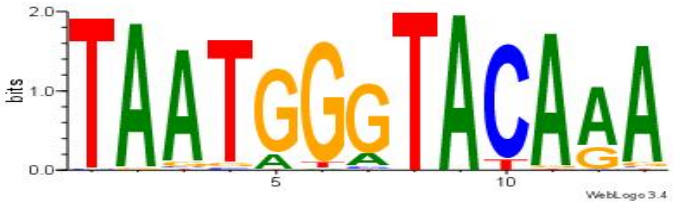

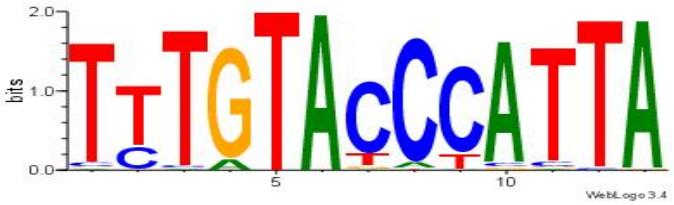

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0948872

Alignment:

```
CTATTGTGAATARTGCTGC
----AATGAATGAAT----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

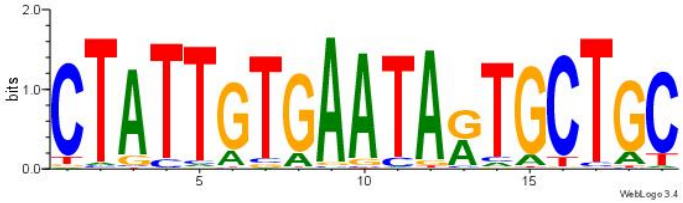

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

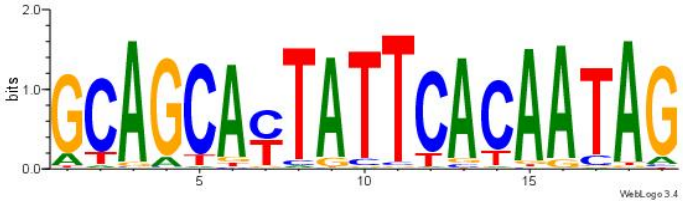

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.095249

Alignment:

```
AAGTCCAAGATCAAGGTGYY
--------AATGAATGAAT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

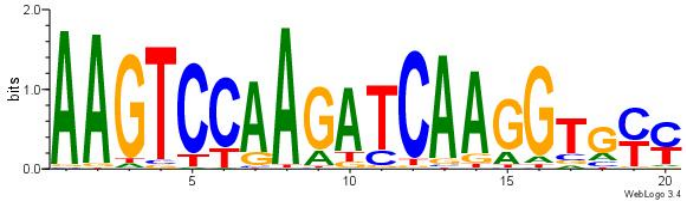

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

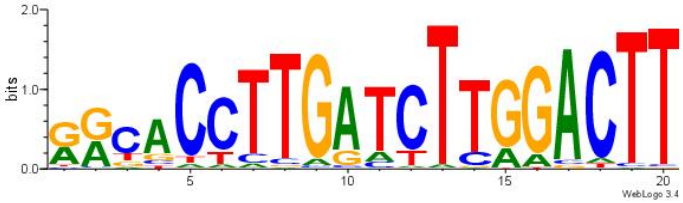

Dataset #: 1 Motif ID: 162 Motif name: Motif 162

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

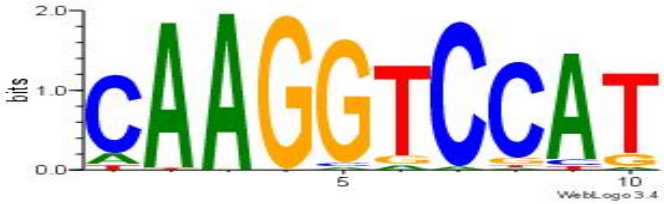

Best Matches for Significant Motif ID 162 (Highest to Lowest)

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0562526

Alignment:

```
AAGGGACATTKGAG
-ATGGACCTTG---
```

Original motif Consensus sequence: AAGGGACATTKGAG

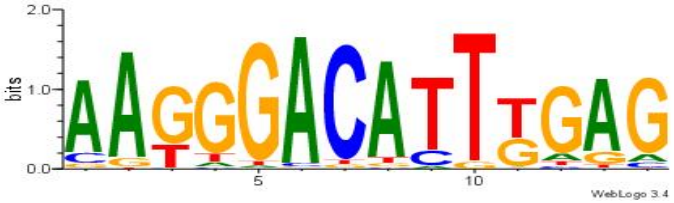

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

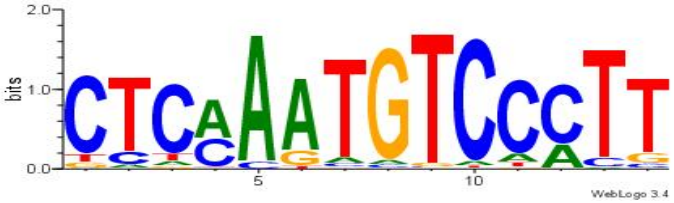

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0574028

Alignment:

```
CTCCAGKTMCATCCATGTTG
--CAAGGTCCAT--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

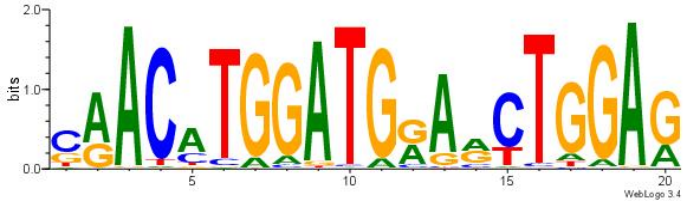

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

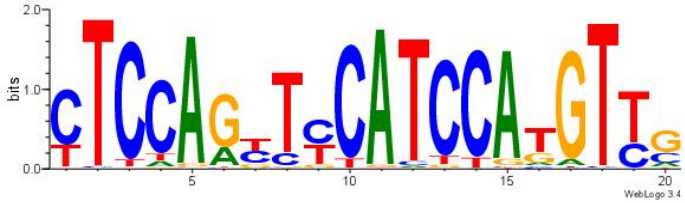

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0633278

Alignment:

```
GACATGAGCTGGCGCTTG
--------ATGGACCTTG
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

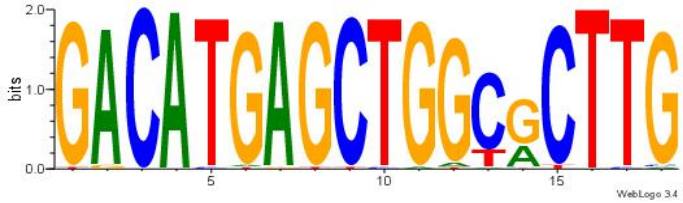

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

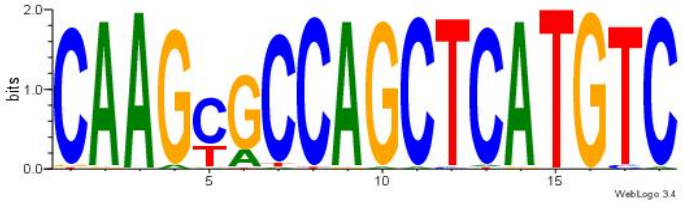

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0659068

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CAAGGTCCAT----------
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

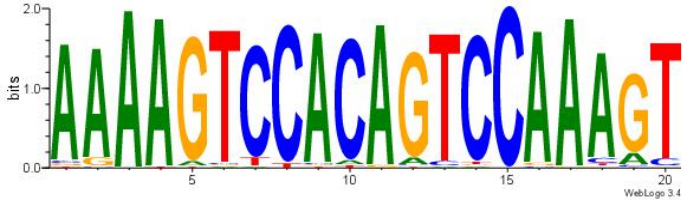

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

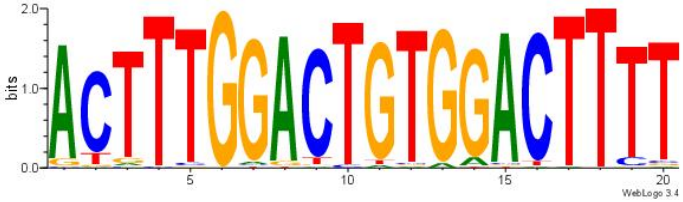

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0673833

Alignment:

```
GCAWSTGCAAAGGCCCT
-------CAAGGTCCAT
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

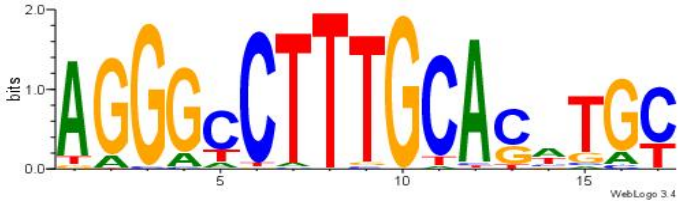

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

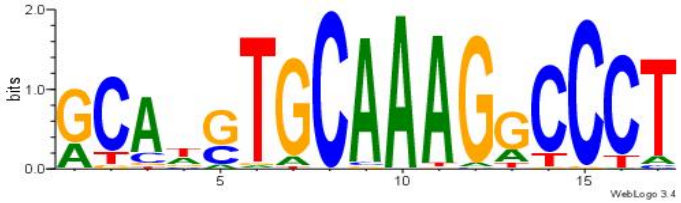

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 10
Similarity score: 0.0674219

Alignment:
WACAATCAGACCTTG
-----ATGGACCTTG

Original motif Consensus sequence: CAAGGTCTGATTGTW

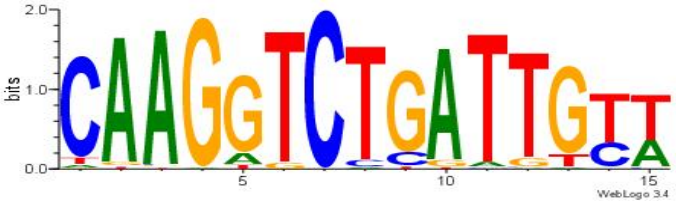

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #: 1
Motif ID: 264
Motif name: Motif 264
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0675015

Alignment:
TGTGACCTTGG
ATGGACCTTG-

Original motif Consensus sequence: CCAAGGTCACA

Reverse complement motif Consensus sequence: TGTGACCTTGG

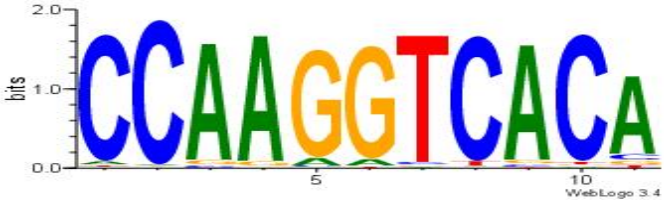

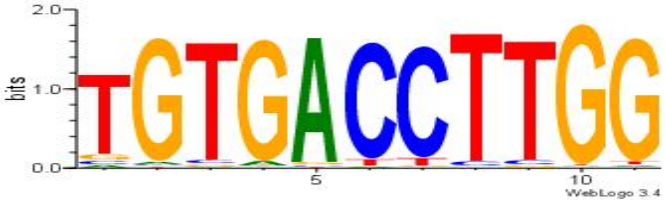

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0678861

Alignment:

```
TGCTGGAGGTCCACTCCAGA
----CAAGGTCCAT------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

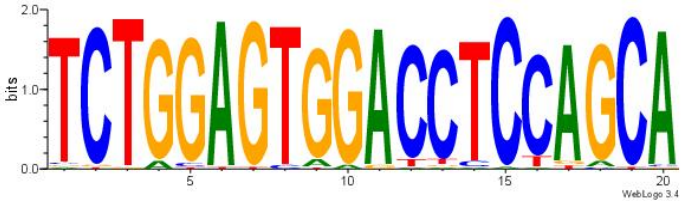

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

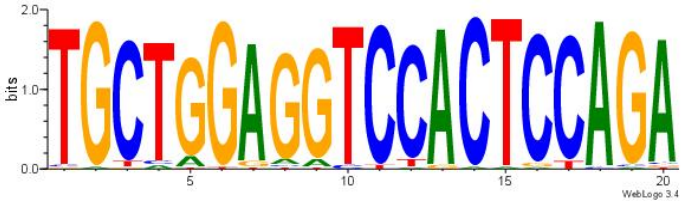

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0681066

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----CAAGGTCCAT-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

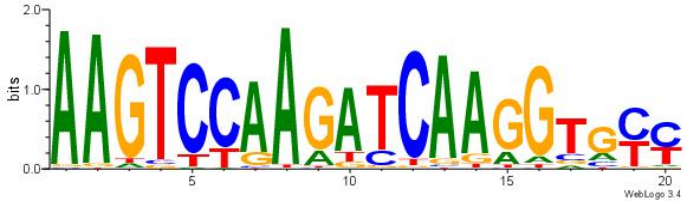

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

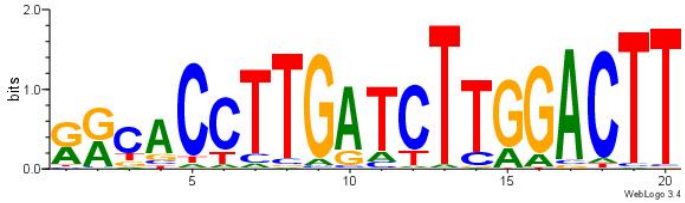

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.068208

Alignment:
CTACATGGACCTT
---CAAGGTCCAT

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

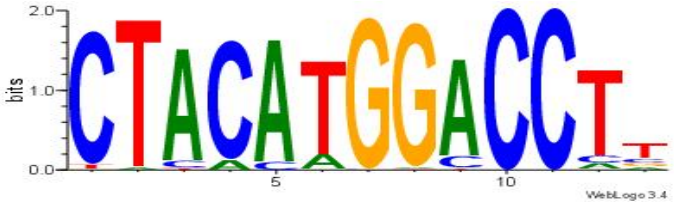

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.068734

Alignment:
ACAAGGCAAGTCCCTTCY
------CAAGGTCCAT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

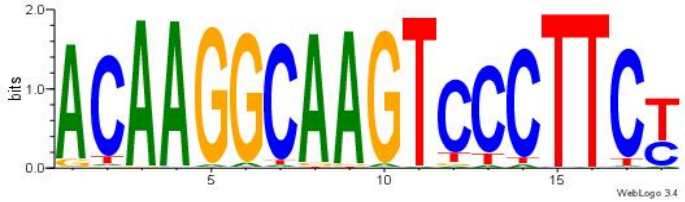

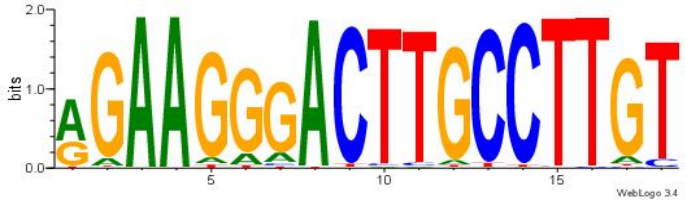

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0707738

Alignment:

```
ATGGACAYTTRGGTTGHTTC
ATGGACCTTG----------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

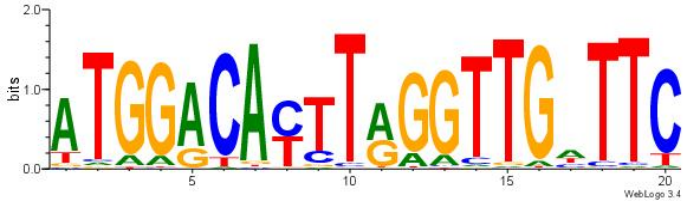

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

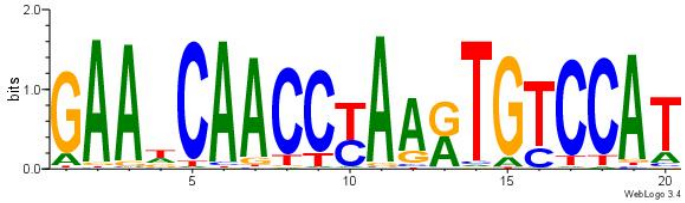

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0716881

Alignment:

```
KACATTGATTTTGTATC
---ATGGACCTTG----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

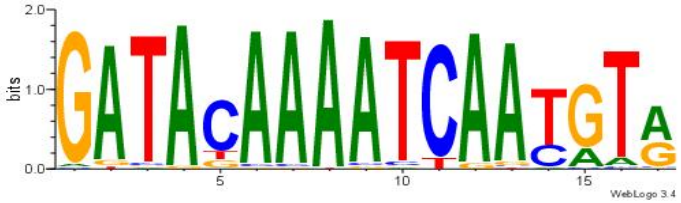

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

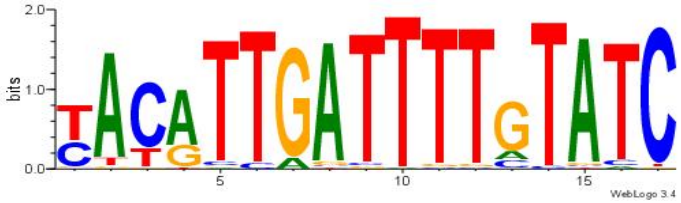

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0723148

Alignment:
ATGGACTTGAGA
ATGGACCTTG--

Original motif Consensus sequence: ATGGACTTGAGA

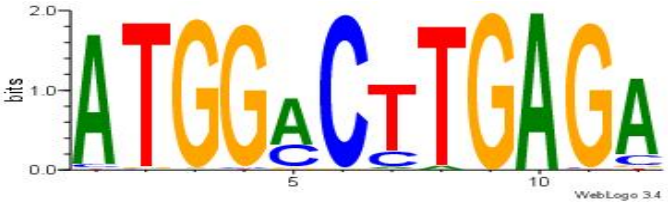

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

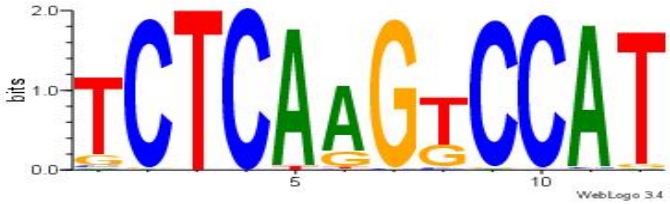

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0745215

Alignment:
ATGGCCTATGACYGSTTTG
ATGGACCTTG---------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

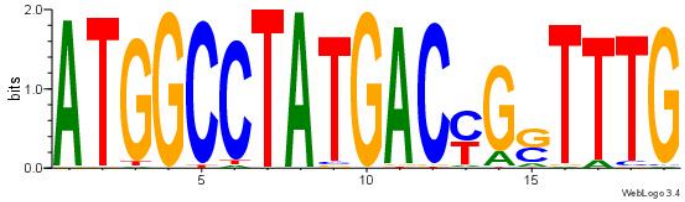

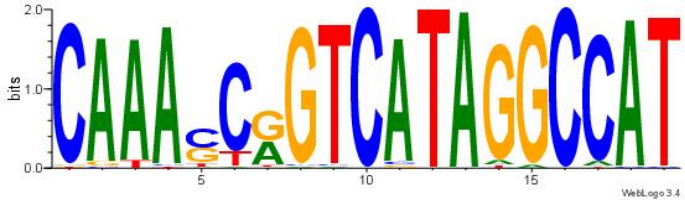

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0755787

Alignment:

```
AATCAACCCTGGYRATCAAT
-ATGGACCTTG---------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

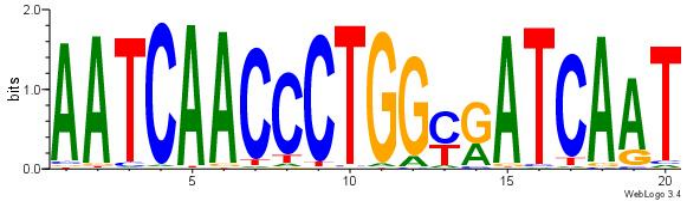

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

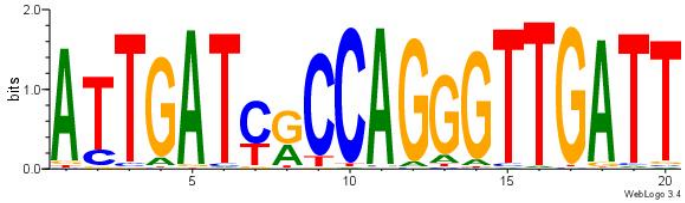

Dataset #: 1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0757189

Alignment:

```
AGGGATCTAGGTTGCR
ATGGACCTTG------
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

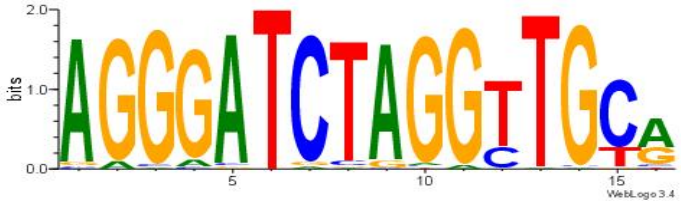

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

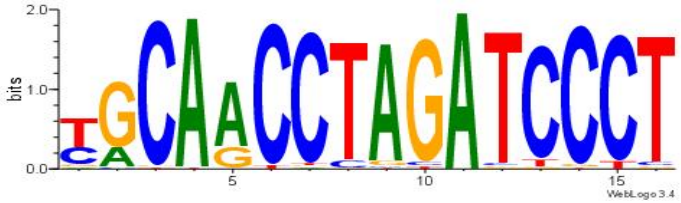

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0785566

Alignment:
CGCGGCGCTTGCGGGCCAGC
---------ATGGACCTTG-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

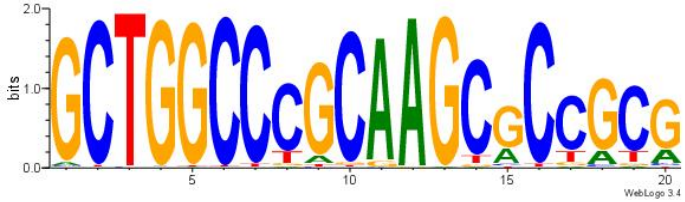

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

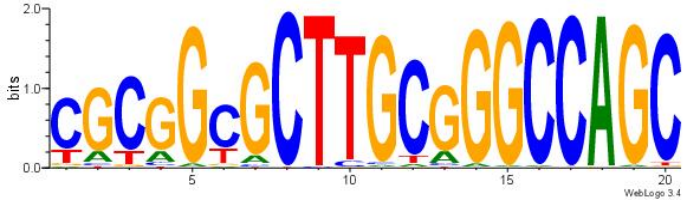

Dataset #: 1
Motif ID: 75
Motif name: Motif 75
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0823177

Alignment:
CATGGAGCGGKK
-ATGGACCTTG-

Original motif Consensus sequence: CATGGAGCGGKK

Reverse complement motif Consensus sequence: RRCCGCTCCATG

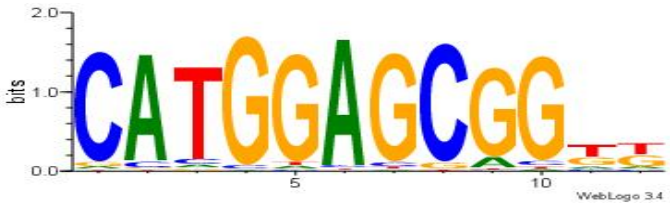

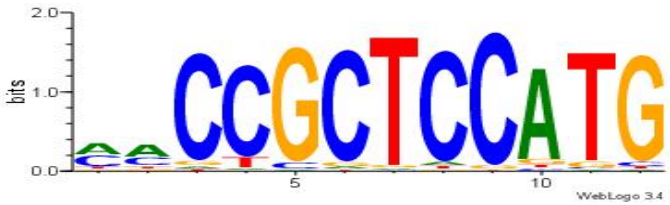

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0823992

Alignment:

```
CTCCTGACCTCGTGATC
-----ATGGACCTTG--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

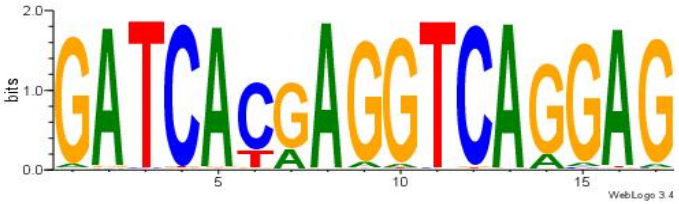

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

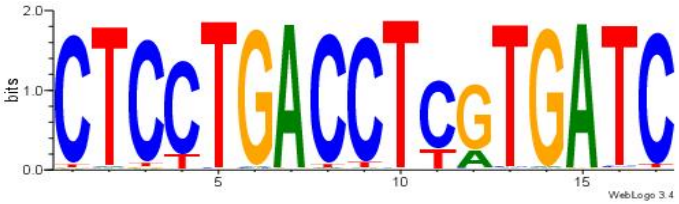

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0824711

Alignment:

```
GCAAAKGACATGATYTCATT
---------CAAGGTCCAT-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

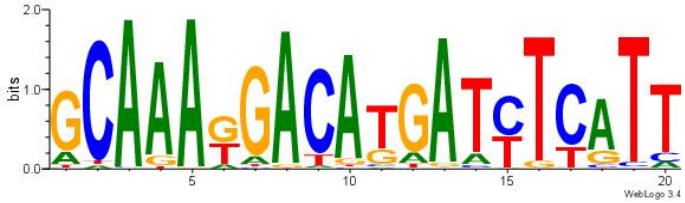

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

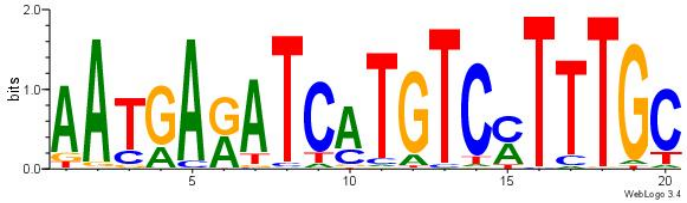

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10

Similarity score: 0.0826894

Alignment:
KCCGGGCCTTAGCTGCCTTC
---------ATGGACCTTG-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

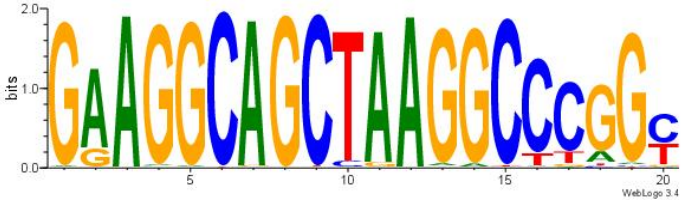

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

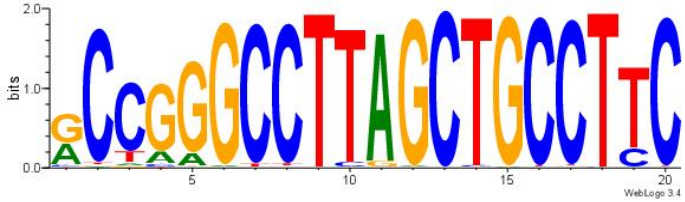

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.0827495

Alignment:
GTGGCCCTCTTCTCACAGCT
ATGGACCTTG----------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

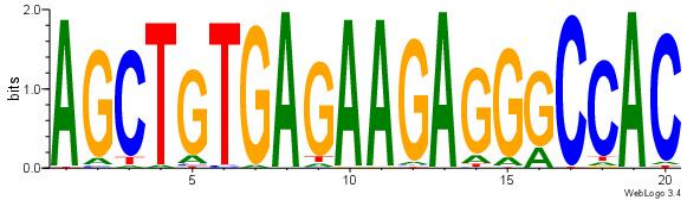

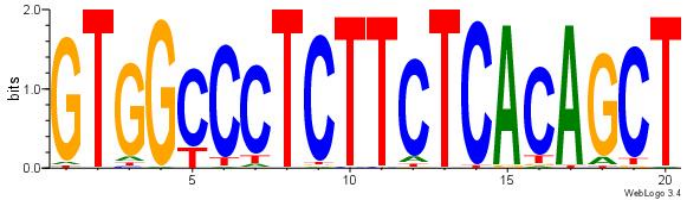

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0831564

Alignment:

```
GCTTAGCACCYGGGCCAGC
-CAAGGTCCAT--------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

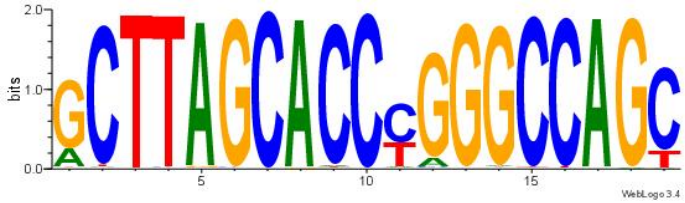

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

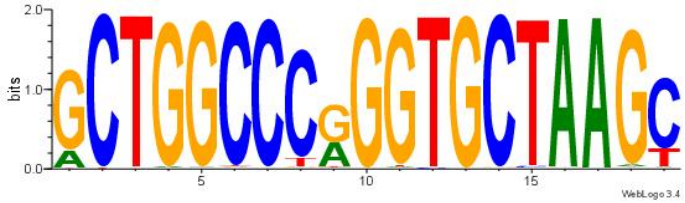

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0837832

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
----ATGGACCTTG------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

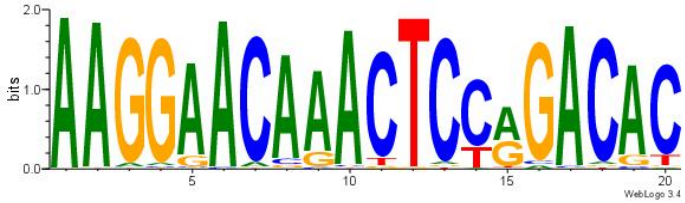

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

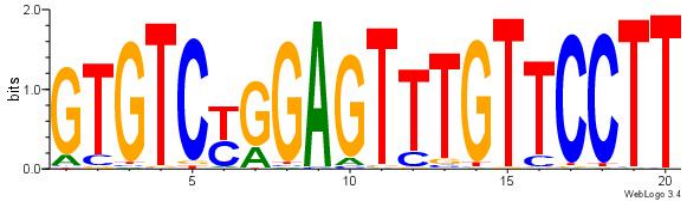

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0865151

Alignment:
CTGGCCCTCAATGGTTAAAC
ATGGACCTTG----------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

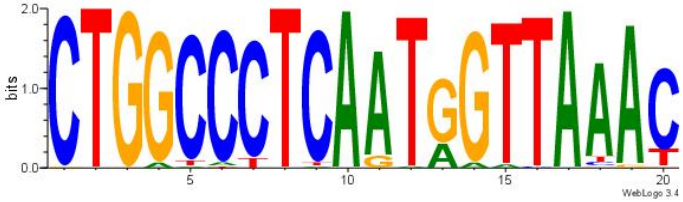

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

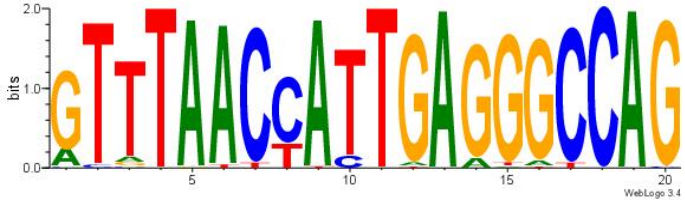

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0870067

Alignment:
ATGTAACCAAAYACCACCTG
-------CAAGGTCCAT---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

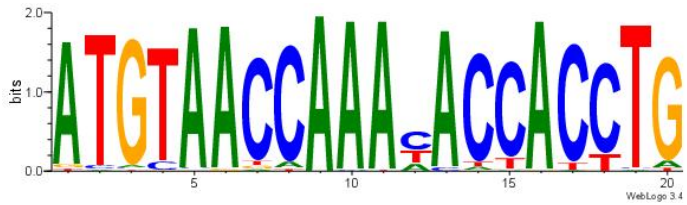

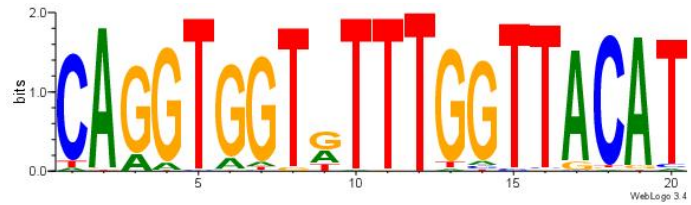

Dataset #:	1
Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0871809

Alignment:

```
AGCCTAGGCCTAC
---CAAGGTCCAT
```

Original motif Consensus sequence: AGCCTAGGCCTAC

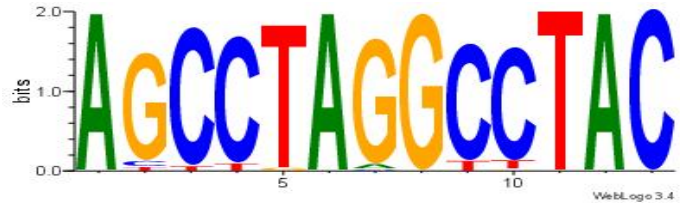

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

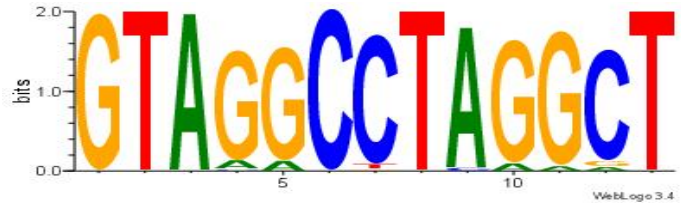

Dataset #:	1
Motif ID:	333

Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0872811

Alignment:

```
AAAGCTGGAGCTATTATCTA
----ATGGACCTTG------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

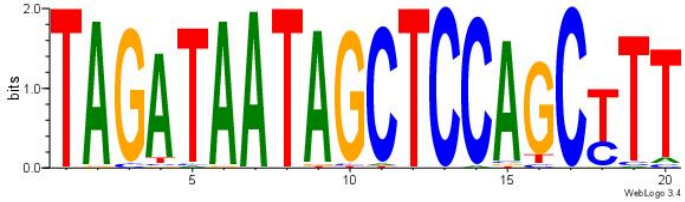

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

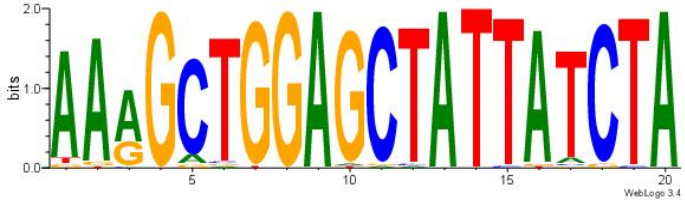

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0885006

Alignment:
GGTGGAGCTGCCTGCCAGTC
---------ATGGACCTTG-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

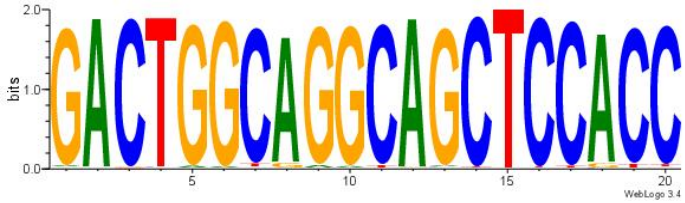

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

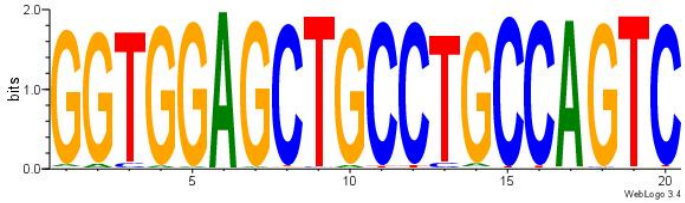

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0885978

Alignment:
TAMGACCTCAGGTCCTCAG
-------CAAGGTCCAT--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

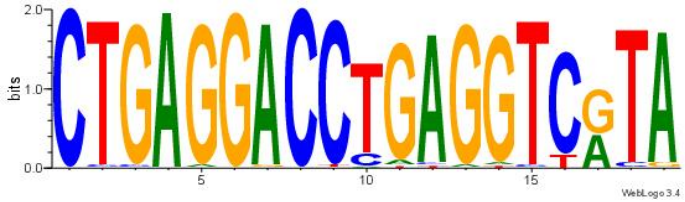

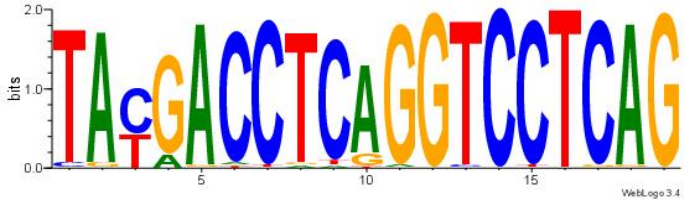

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0888034

Alignment:

```
GCACATGTAYCCYAGAACTT
----ATGGACCTTG------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

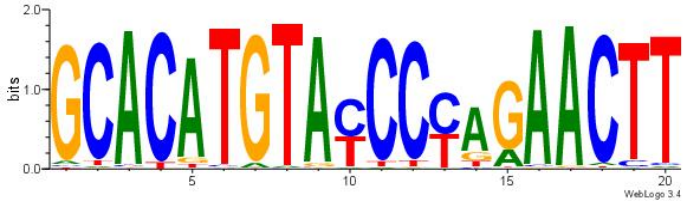

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

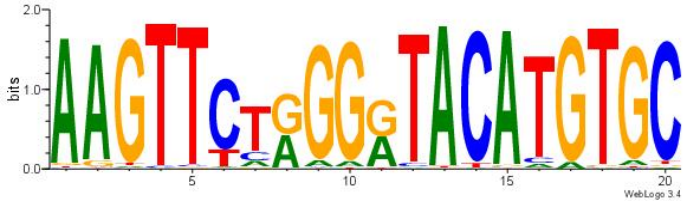

Dataset #: 1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0889399

Alignment:

```
CCCAAATCTCATSTTGAAT
--CAAGGTCCAT-------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

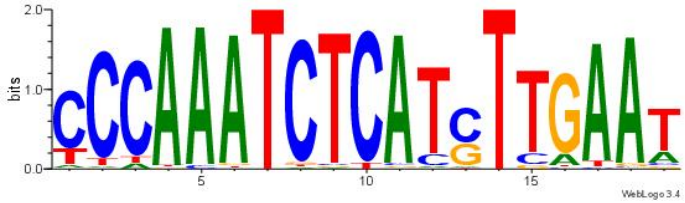

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

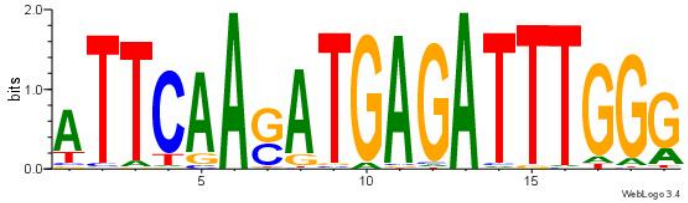

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0893994

Alignment:
ACGCACCTGTA
ATGGACCTTG-

Original motif Consensus sequence: ACGCACCTGTA

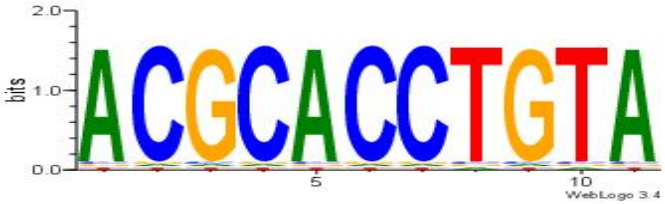

Reverse complement motif Consensus sequence: TACAGGTGCGT

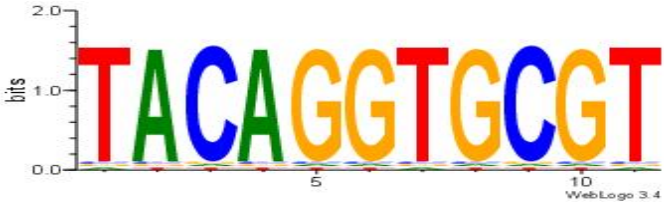

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0894395

Alignment:
AAATTAGGCCAATTAATAAC
---CAAGGTCCAT-------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

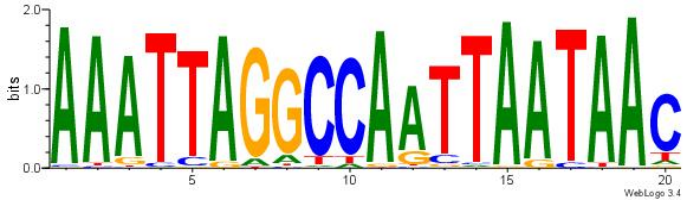

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0904994

Alignment:

```
TTGGAGGTTCTAGCAGGG
ATGGACCTTG--------
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

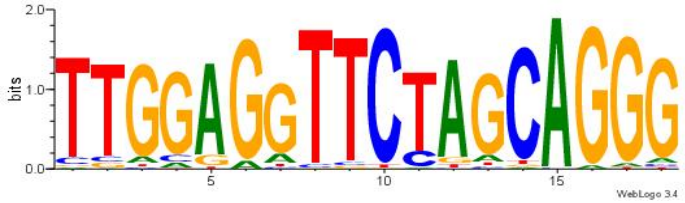

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.091056

Alignment:

```
CTTGCCCAAGGTCACACAGC
------CAAGGTCCAT----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

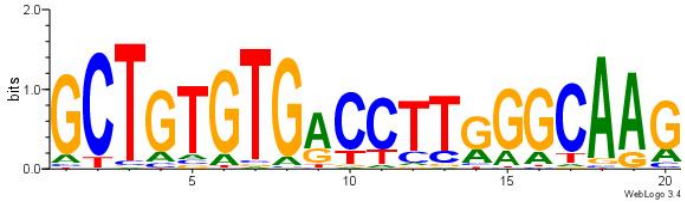

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

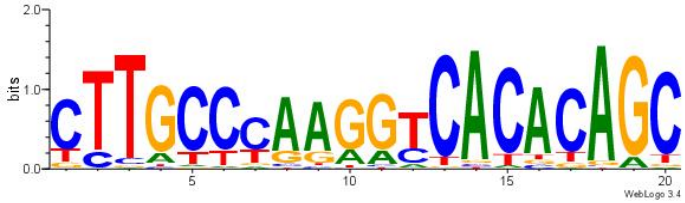

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10

Similarity score: 0.09148

Alignment:
ACTGTCTTCCACCTCCACAT
--------CAAGGTCCAT--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

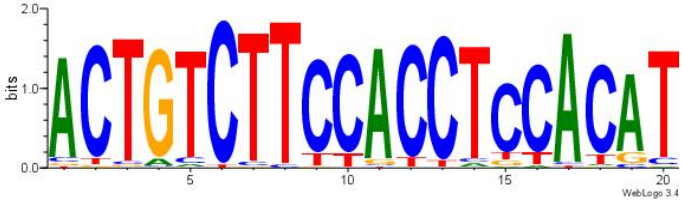

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

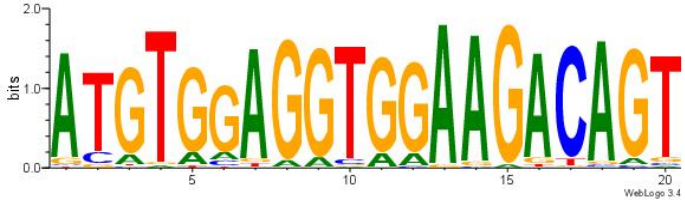

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0917623

Alignment:
TGCTCACACAAAGCCTGT
--------CAAGGTCCAT

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

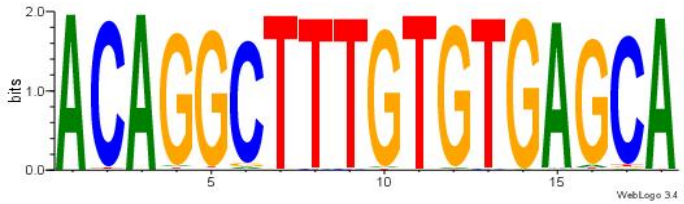

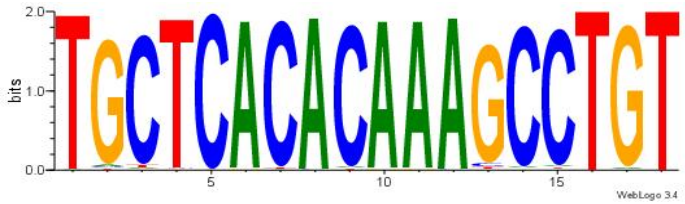

Dataset #:	1
Motif ID:	208
Motif name:	Motif 208
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0917678

Alignment:

```
ATCGCCCTCAC
ATGGACCTTG-
```

Original motif Consensus sequence: GTGAGGGCGAT

Reverse complement motif Consensus sequence: ATCGCCCTCAC

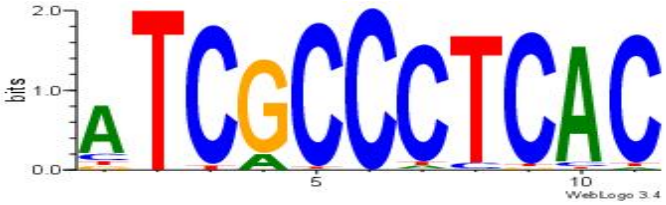

Dataset #:	1
Motif ID:	73

Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.091935

Alignment:

```
CTTGCAGTTTG
ATGGACCTTG-
```

Original motif Consensus sequence: CAAACTGCAAG

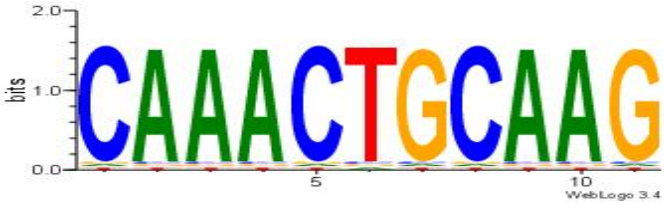

Reverse complement motif Consensus sequence: CTTGCAGTTTG

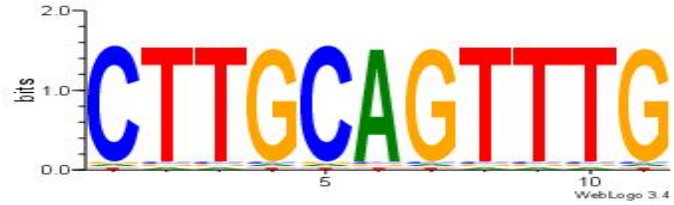

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0920929

Alignment:
CTTGGGTGGTCGATGGGAC
----ATGGACCTTG-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

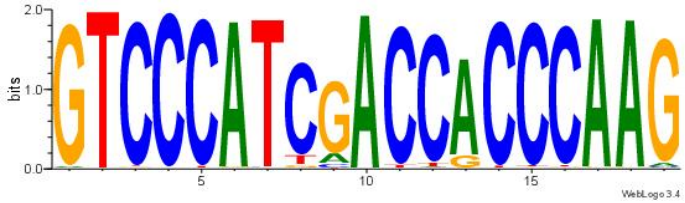

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

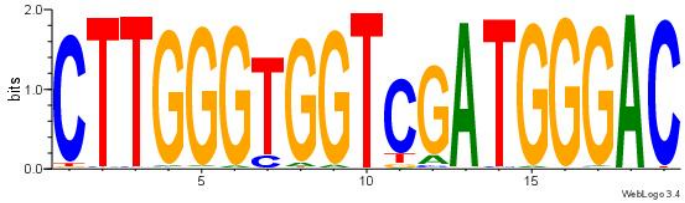

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0922109

Alignment:
TTGGTAGGATCCGTGATGCC
----CAAGGTCCAT------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

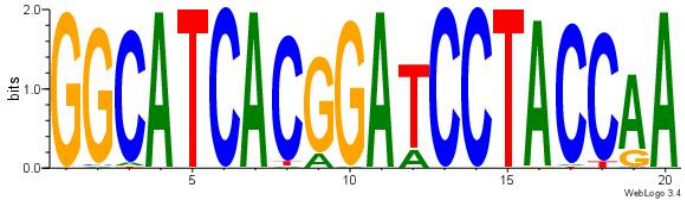

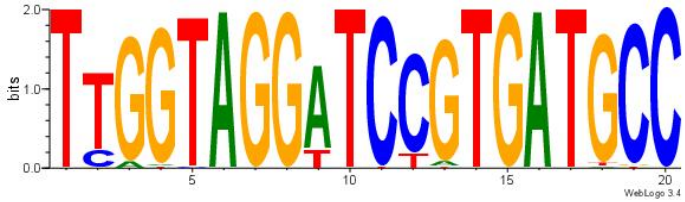

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0922678

Alignment:

```
AATGAGTTAAGACTTTG
-------ATGGACCTTG
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

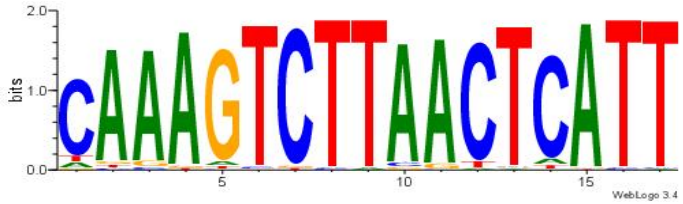

Dataset #: 1

Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0924212

Alignment:

```
TTACAGGCTCATA
--CAAGGTCCAT-
```

Original motif Consensus sequence: TATGAGCCTGTAA

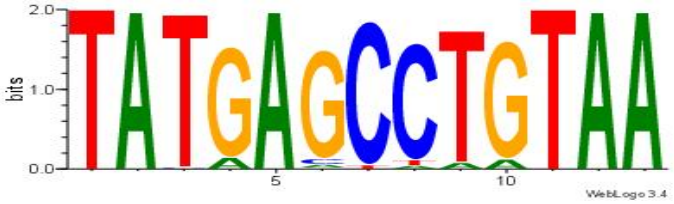

Reverse complement motif Consensus sequence: TTACAGGCTCATA

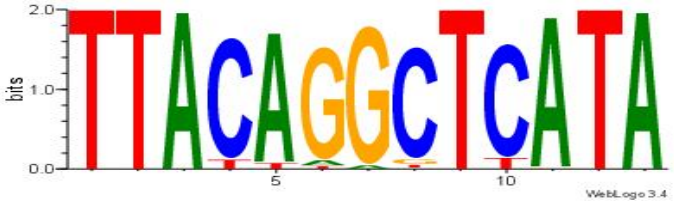

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0927274

Alignment:
CCCACGCCCACCCGGAACT
-CAAGGTCCAT--------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

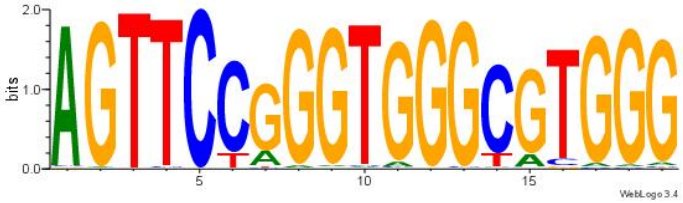

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

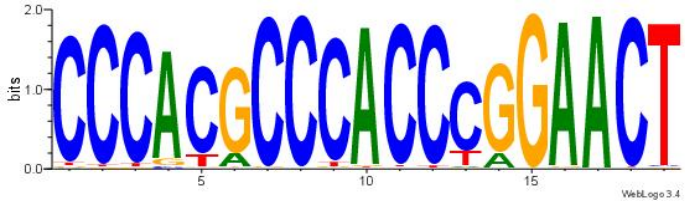

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0938233

Alignment:
AGGAACAGCTCCRGTCTAC
-----CAAGGTCCAT----

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

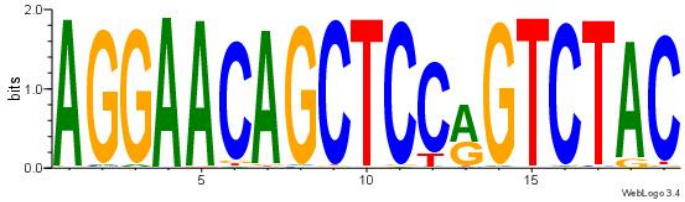

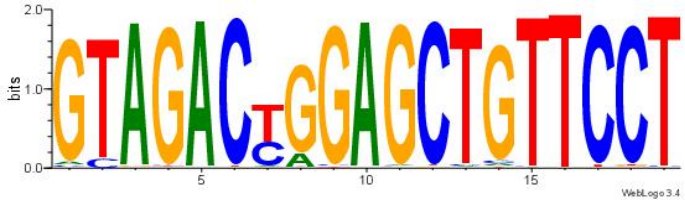

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0943656

Alignment:

```
GGTCAGGATCATCAATAT
--CAAGGTCCAT------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

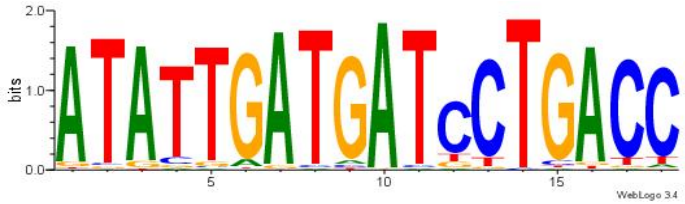

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

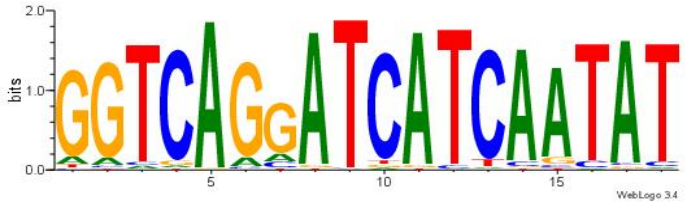

Dataset #: 1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0944114

Alignment:

```
CCCAAATCCTATAAAA
--CAAGGTCCAT----
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

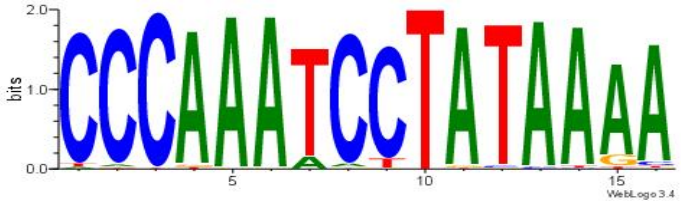

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

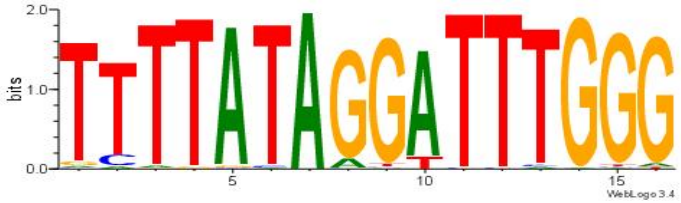

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.094493

Alignment:
CCGCTGCACTGTGGGAGCCC
---ATGGACCTTG-------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

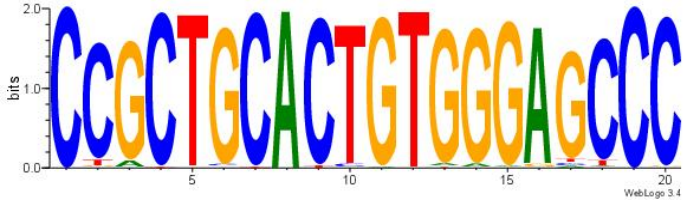

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

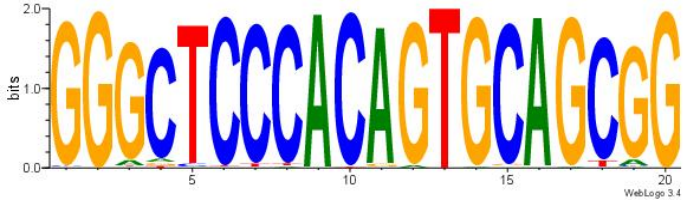

Dataset #: 1 Motif ID: 93 Motif name: Motif 93

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Best Matches for Significant Motif ID 93 (Highest to Lowest)

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0496914

Alignment:
CMGCTCCGAGTGCGG
-----CCATGTGCGG

Original motif Consensus sequence: CCGCACTCGGAGCRG

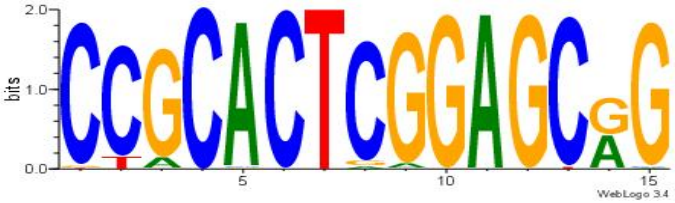

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

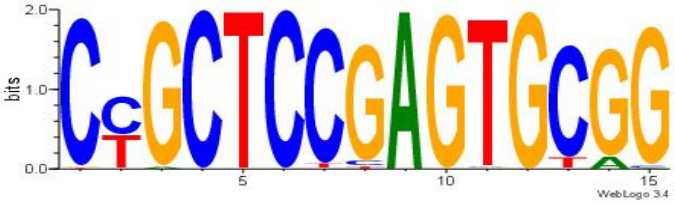

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0540497

Alignment:
GTACCTCAGWTGGAAATG
---CCGCACATGG-----

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

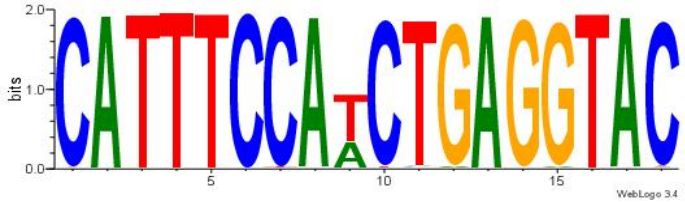

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

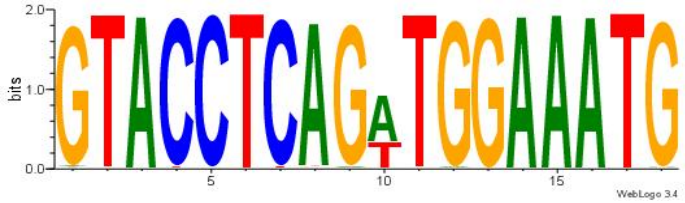

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0552113

Alignment:

```
CCATGTGSTCCC
CCATGTGCGG--
```

Original motif Consensus sequence: CCATGTGSTCCC

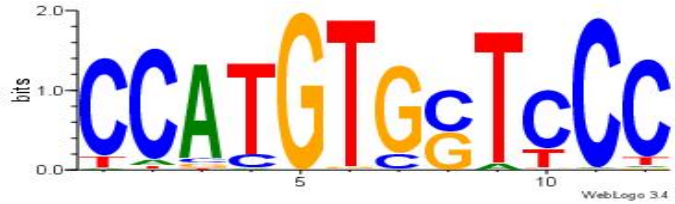

Reverse complement motif Consensus sequence: GGGASCACATGG

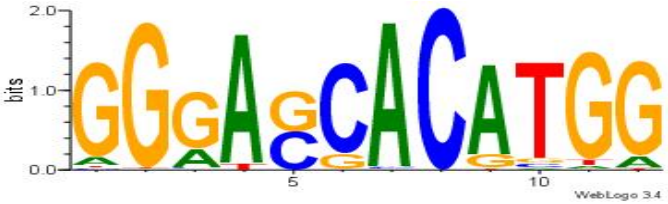

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0568222

Alignment:

```
TACAGGTGCGT
-CCATGTGCGG
```

Original motif Consensus sequence: ACGCACCTGTA

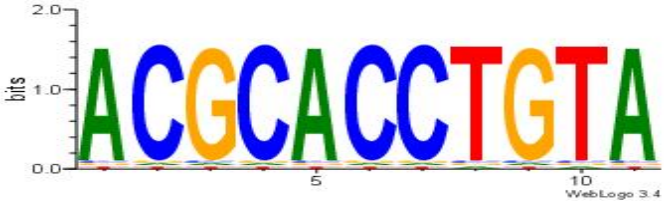

Reverse complement motif Consensus sequence: TACAGGTGCGT

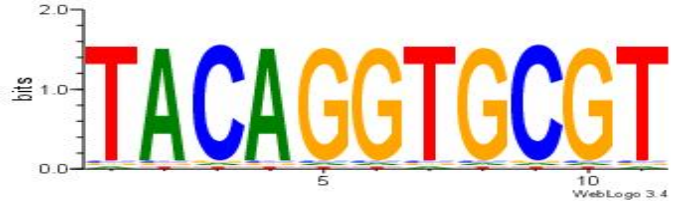

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0665322

Alignment:
GAGAACACATGGACA
--CCGCACATGG---

Original motif Consensus sequence: GAGAACACATGGACA

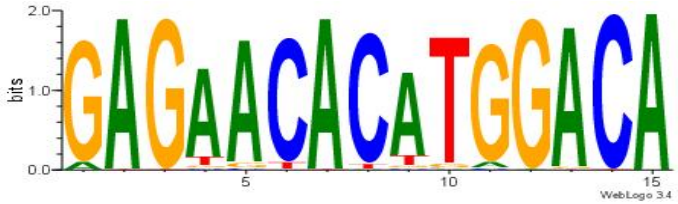

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

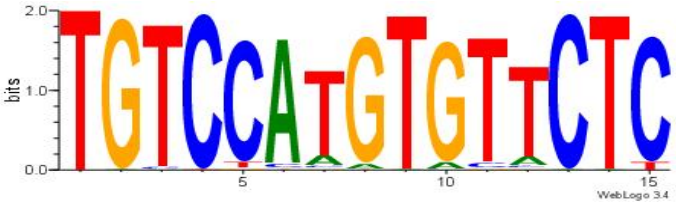

Dataset #: 1
Motif ID: 167
Motif name: Motif 167
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0678672

Alignment:
CCGCTCCTGTGC
CCGCACATGG--

Original motif Consensus sequence: CCGCTCCTGTGC

Reverse complement motif Consensus sequence: GCACAGGAGCGG

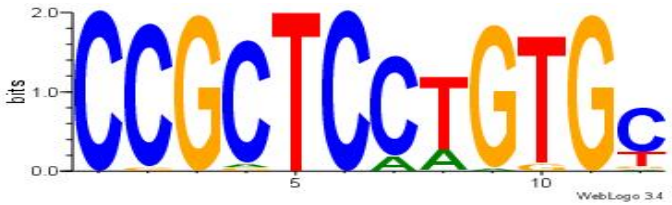

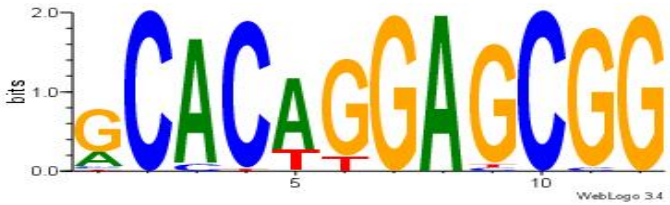

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0699844

Alignment:

```
CAAGCGCCAGCTCATGTC
-------CCGCACATGG-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

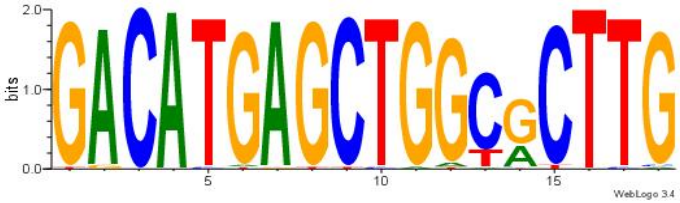

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

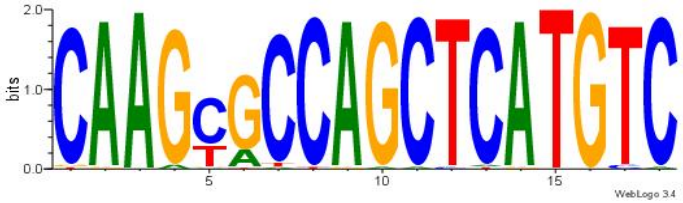

Dataset #: 1

Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0709488

Alignment:

```
CCGTGCGCGAGCCG
CCATGTGCGG----
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

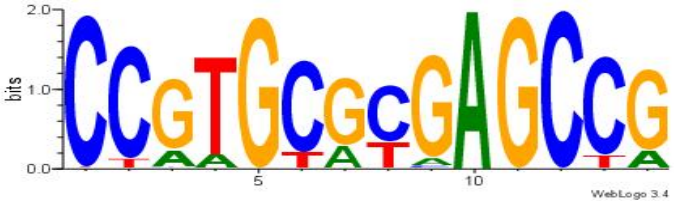

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

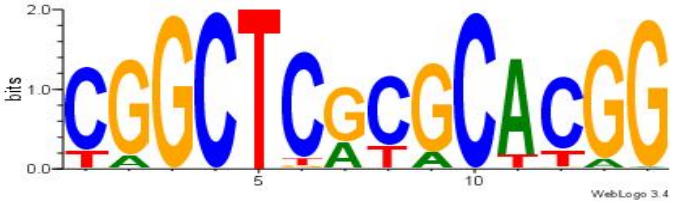

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0720831

Alignment:
ACGCCCACGGAGTCTC
------CCGCACATGG

Original motif Consensus sequence: ACGCCCACGGAGTCTC

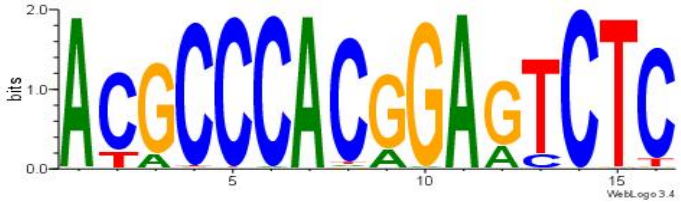

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

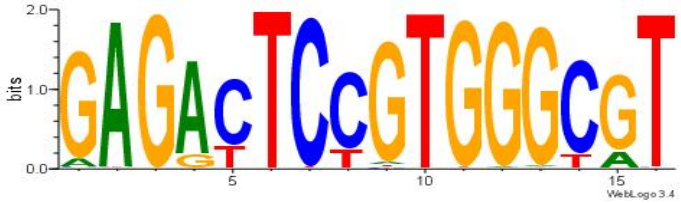

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0741793

Alignment:
GCTCCWGTGYGKCC
--CCATGTGCGG--

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

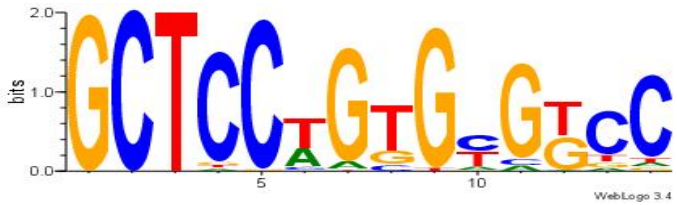

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0759162

Alignment:

```
TCCCTCCCGGACGGGGYGGC
------CCGCACATGG----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

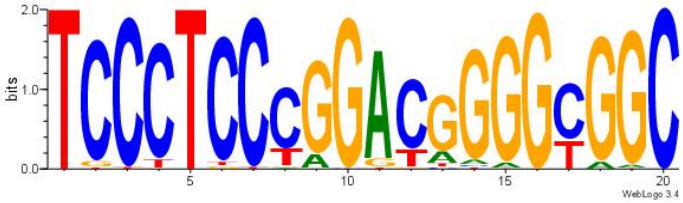

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

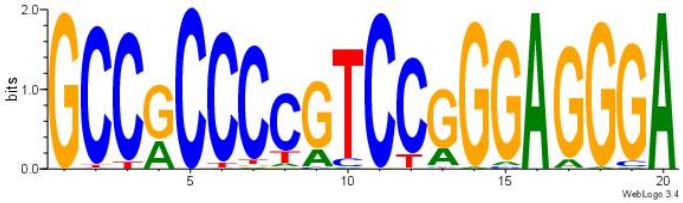

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0766926

Alignment:

```
GCTGGCCCKGGTGCTAAGC
---CCATGTGCGG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

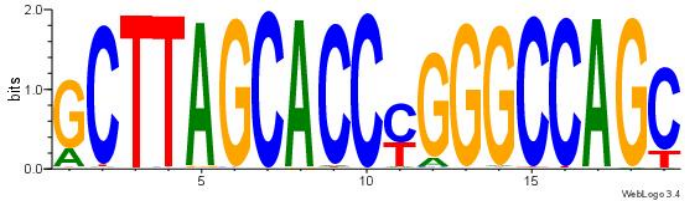

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

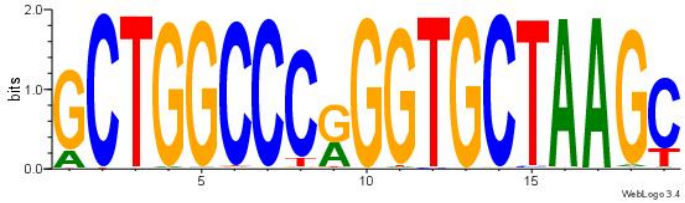

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0774041

Alignment:
CCACCACAGCTCAAGGAGGC
------CCGCACATGG----

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

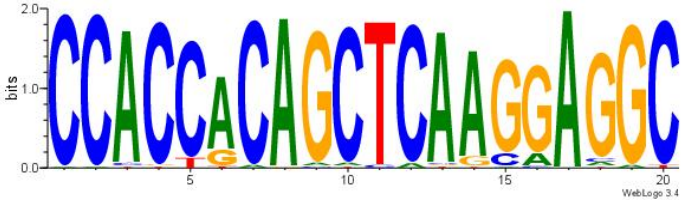

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

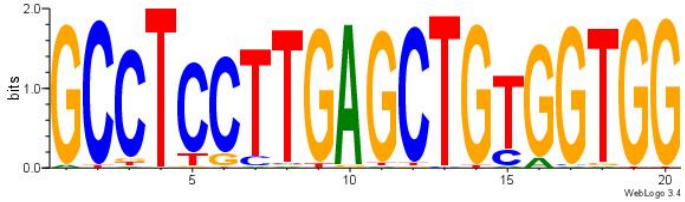

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0793886

Alignment:
AGTTCCGGGTGGGCGTGGG
----CCATGTGCGG-----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

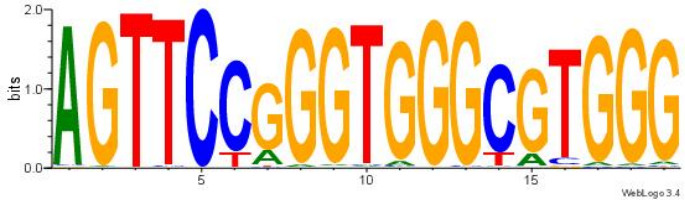

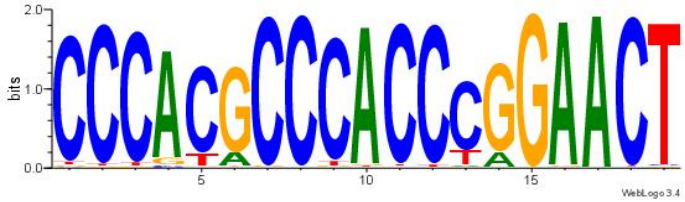

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0793886

Alignment:

```
TCAATGGGCTCCCAAATG
-CCATGTGCGG-------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

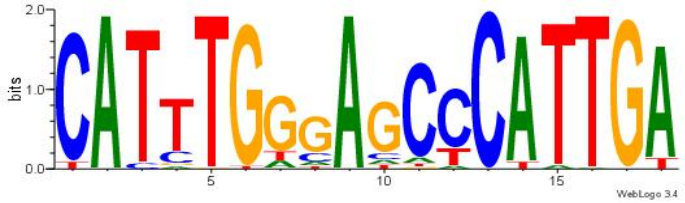

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

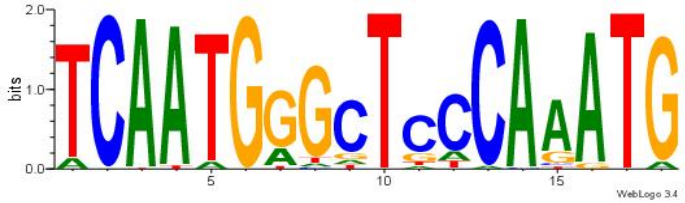

Dataset #:	1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0814289

Alignment:

```
GCTCTCAATTGGTCATT
--CCGCACATGG-----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

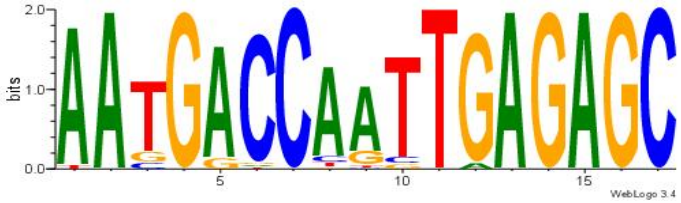

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

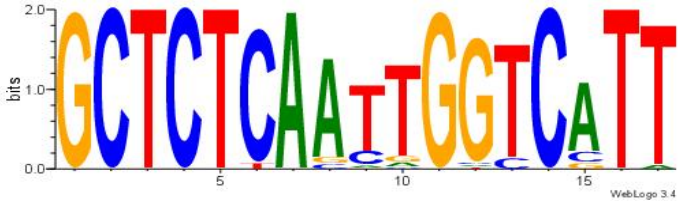

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0824173

Alignment:
CCTCCGTGGGCTCC
---CCATGTGCGG-

Original motif Consensus sequence: CCTCCGTGGGCTCC

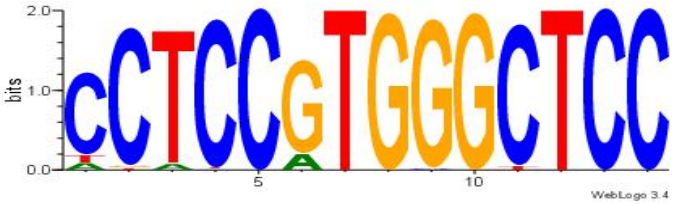

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

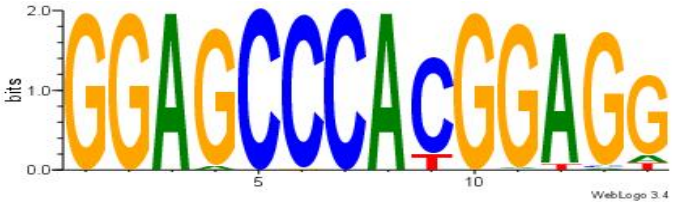

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0825419

Alignment:
GCCKGGMKCMGTGGCTCAKG
---------CCATGTGCGG-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

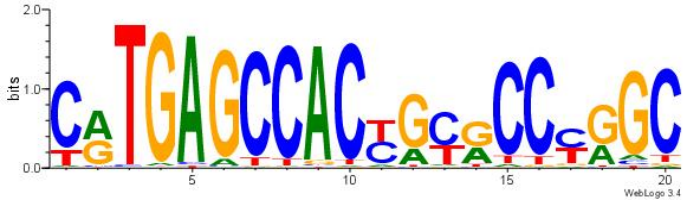

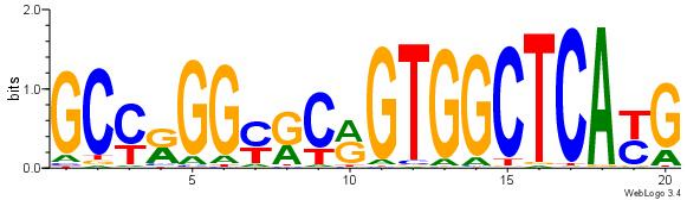

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0826519

Alignment:

```
ACCCYGTCTGGGAGGTG
-CCATGTGCGG------
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

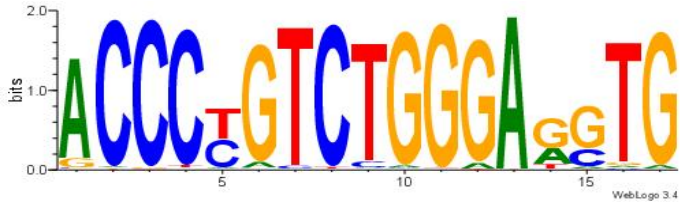

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

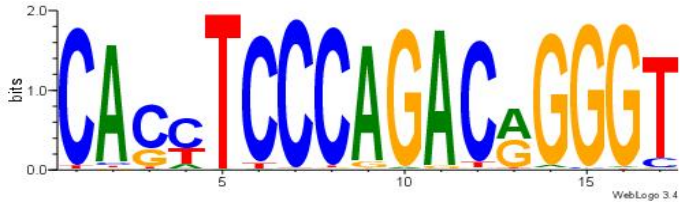

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.082958

Alignment:

```
ACTCCCTAGTGAGATGAACC
------CCATGTGCGG----
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

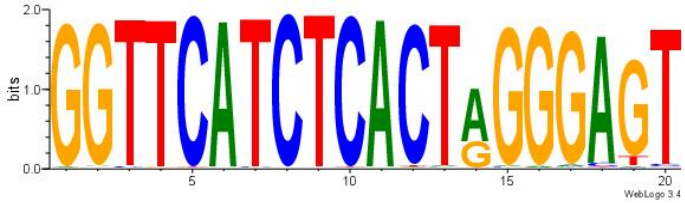

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

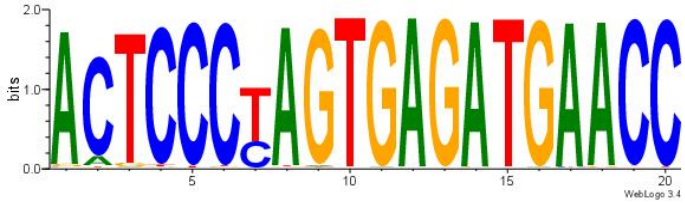

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0839188

Alignment:
GGATTTMKGACTTGCATGGG
---------CCGCACATGG-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

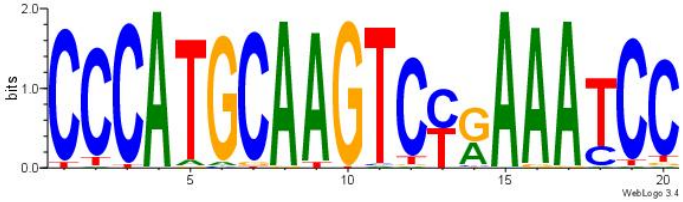

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

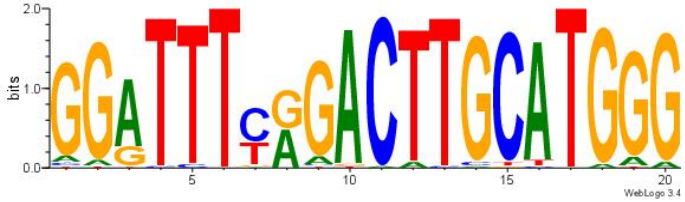

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0843166

Alignment:
ATGGCCTATGACYGSTTTG
-----CCATGTGCGG----

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

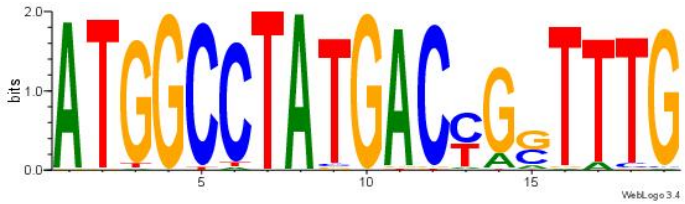

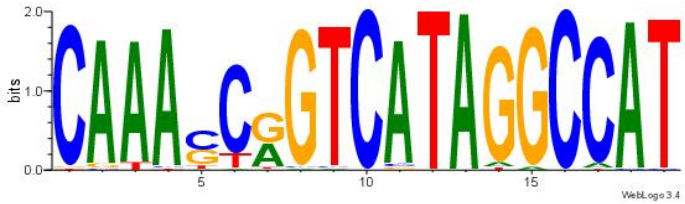

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0851844

Alignment:

```
GCCACCAMGCCMKGCTAAT
-----CCATGTGCGG----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

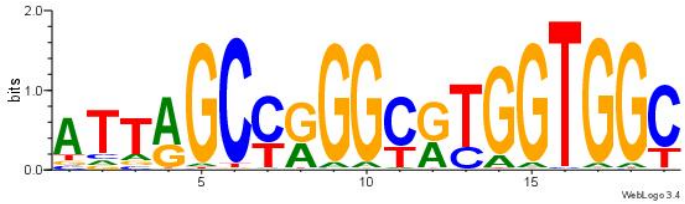

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

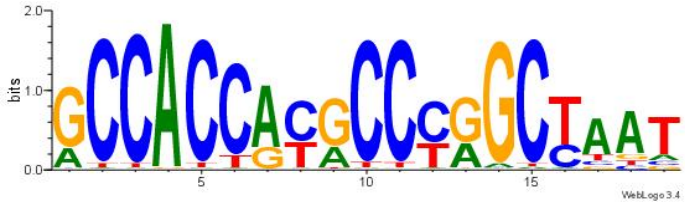

Dataset #: 1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0855702

Alignment:

```
TTTTCACATGCCTTTCT
-CCGCACATGG------
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

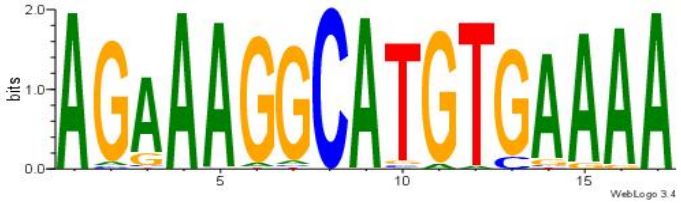

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

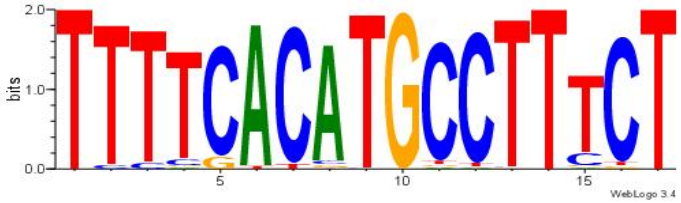

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0855881

Alignment:
CCATCTAGGAAGTG
----CCATGTGCGG

Original motif Consensus sequence: CACTTCCTAGATGG

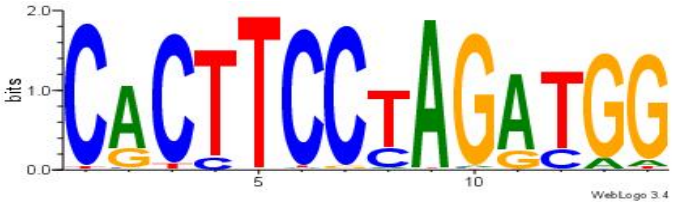

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

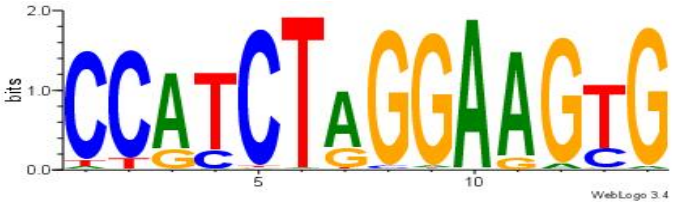

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.085706

Alignment:
GCGCACGGCGCGG
CCGCACATGG---

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

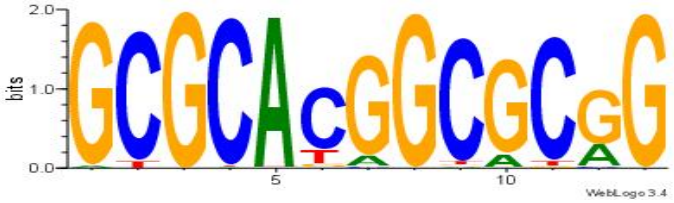

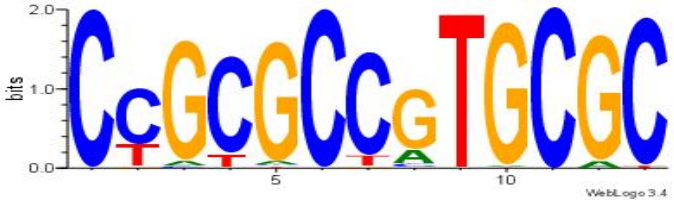

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0862248

Alignment:

```
HGCTCCTGTGSKCCC
---CCATGTGCGG--
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

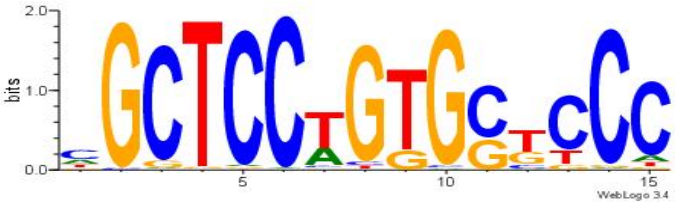

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1

Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0863643

Alignment:

```
GCTTCTGGTGAGGGC
---CCATGTGCGG--
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

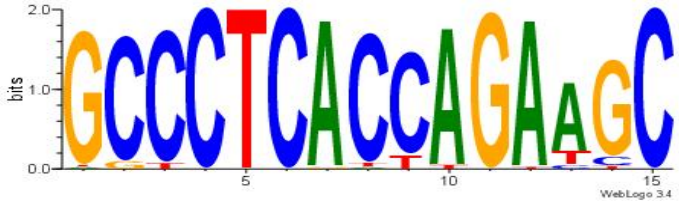

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

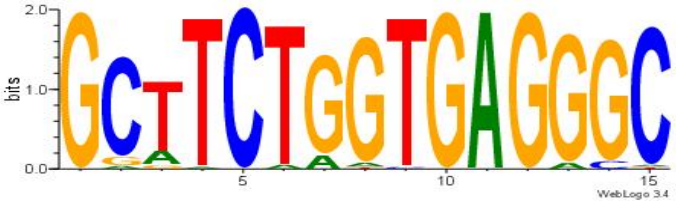

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0865262

Alignment:
AGGGCCTTTGCASWTGC
-------CCGCACATGG

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

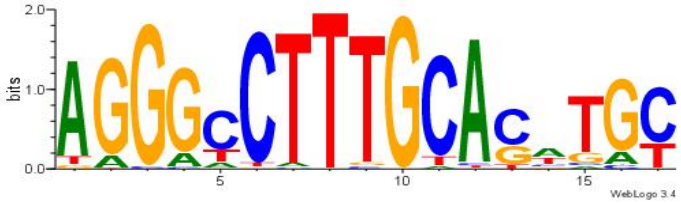

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

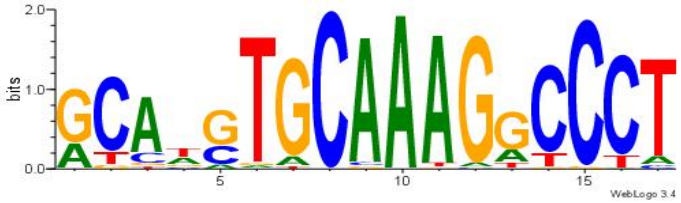

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0866106

Alignment:
GCCAATTTCTCCCATTTGGA
---------CCGCACATGG-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

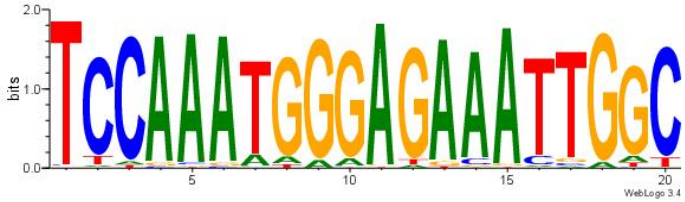

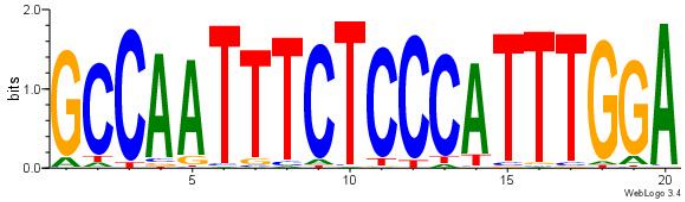

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0873083

Alignment:

```
CAAGCCTSKGCAATGGCAGG
----------CCATGTGCGG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

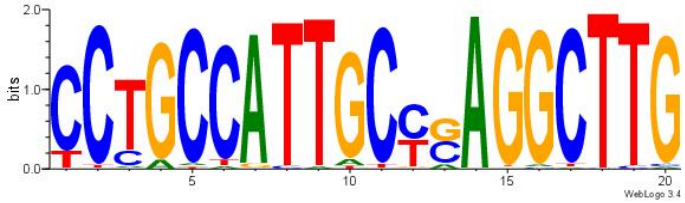

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

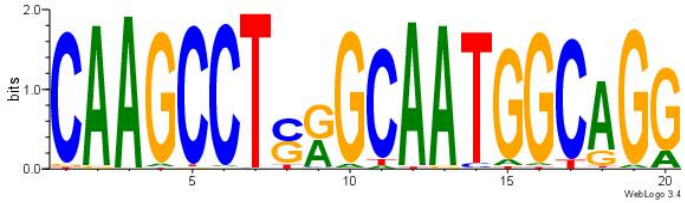

Dataset #: 1

Motif ID:	302
Motif name:	Motif 302
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0881612

Alignment:

```
GCTCTCAGGGTC
CCGCACATGG--
```

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

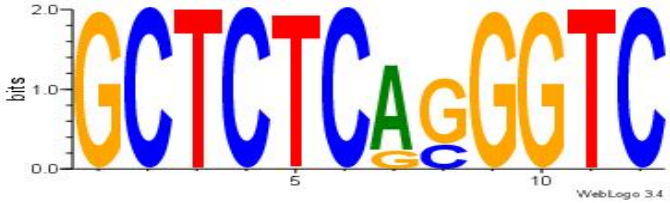

Dataset #:	1
Motif ID:	37
Motif name:	Motif 37
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0883468

Alignment:
WGCTCTCAAGG
-CCGCACATGG

Original motif Consensus sequence: CCTTGAGAGCW

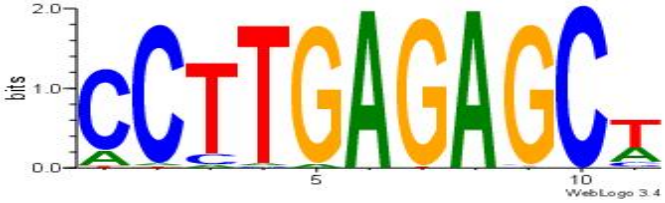

Reverse complement motif Consensus sequence: WGCTCTCAAGG

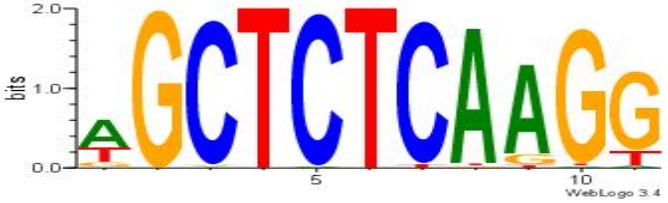

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.088767

Alignment:
GGGCTCCCACAGTGCAGCGG
----CCGCACATGG------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

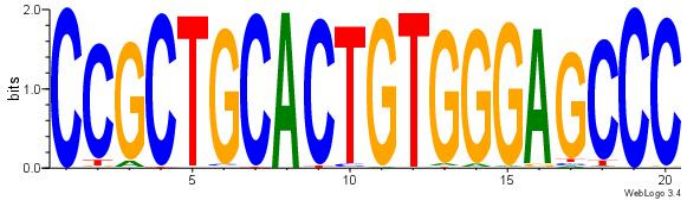

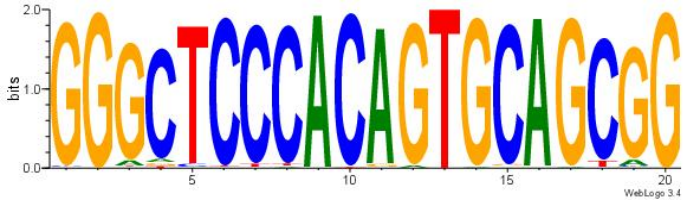

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0888023

Alignment:

```
CACTTCCCAGACGGGGCG
----CCGCACATGG----
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

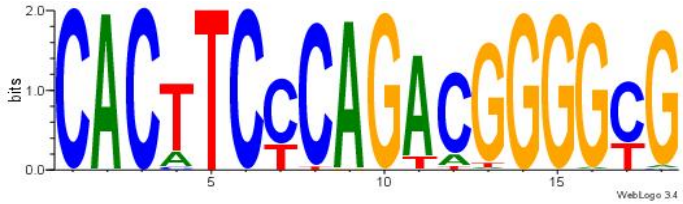

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

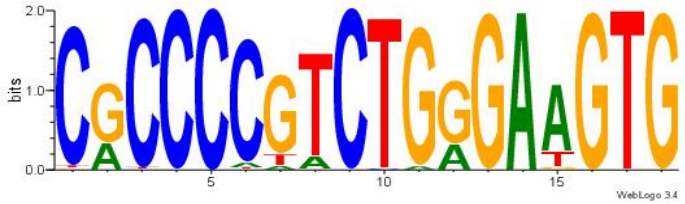

Dataset #:	1

Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0888471

Alignment:

```
TCCCAGACGGGGT
CCGCACATGG---
```

Original motif Consensus sequence: ACCCCGTCTGGGA

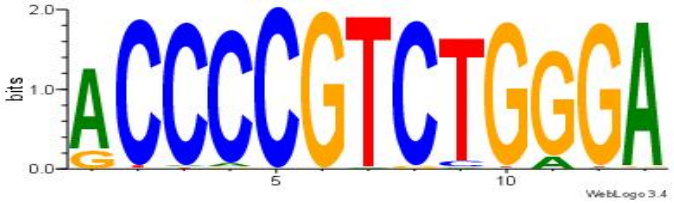

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

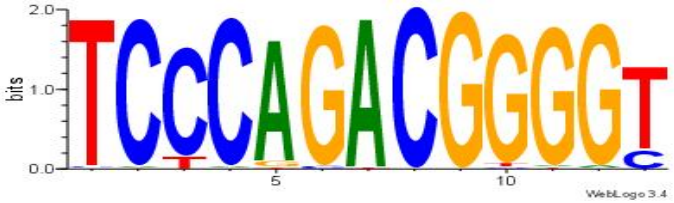

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0889392

Alignment:
AACAACASACACTGGGGCCT
------CCGCACATGG----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

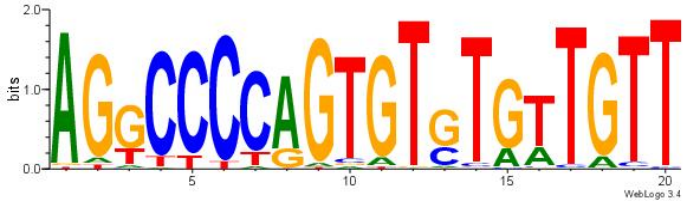

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

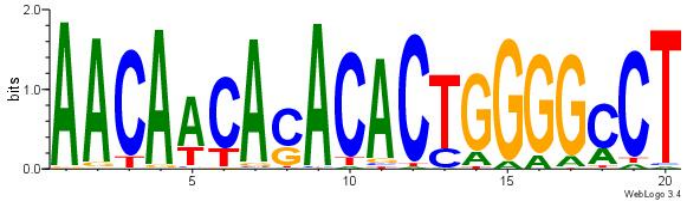

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0892105

Alignment:
CCATGATTGTRAGG
CCATGTGCGG----

Original motif Consensus sequence: CCATGATTGTRAGG

Reverse complement motif Consensus sequence: CCTMACAATCATG

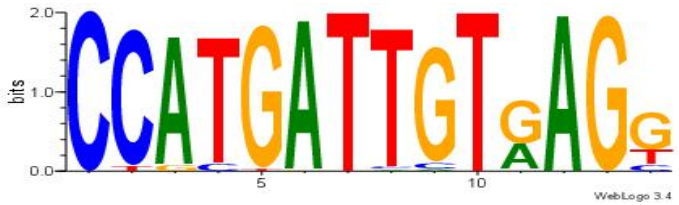

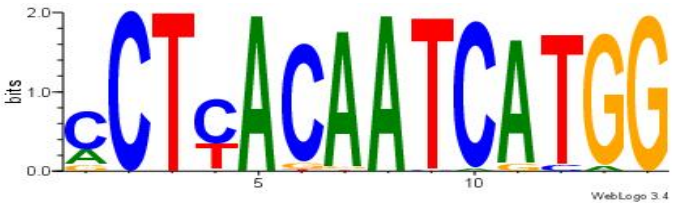

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0894911

Alignment:

```
CTCCAGKTMCATCCATGTTG
--CCATGTGCGG--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

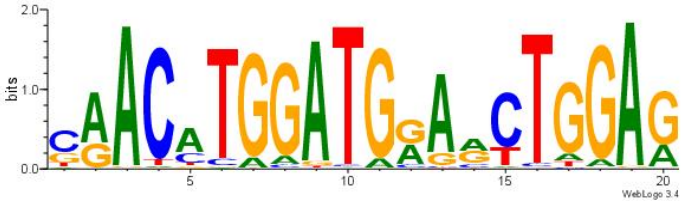

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

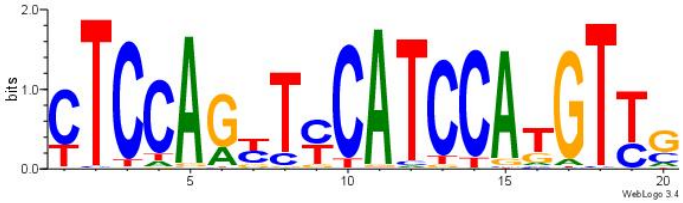

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0895584

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
--CCGCACATGG--------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

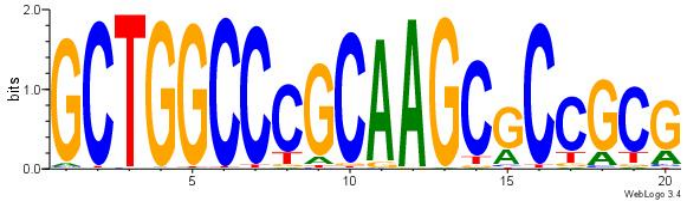

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

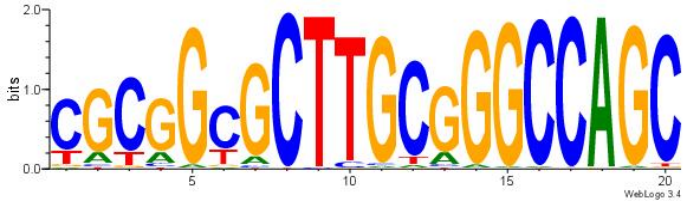

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10

Similarity score: 0.0895693

Alignment:
CGAGCCTCCCCGAYGAGCGC
----------CCATGTGCGG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

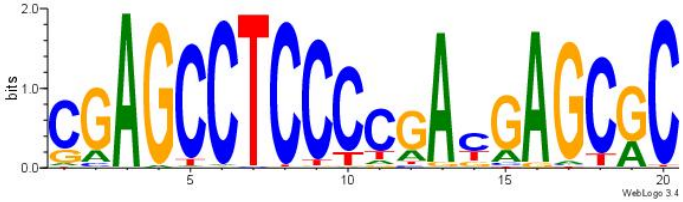

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

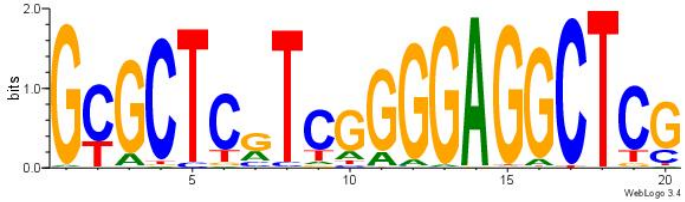

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.0895913

Alignment:
GGAGGTGTGGAGGGAGAGGC
CCATGTGCGG----------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

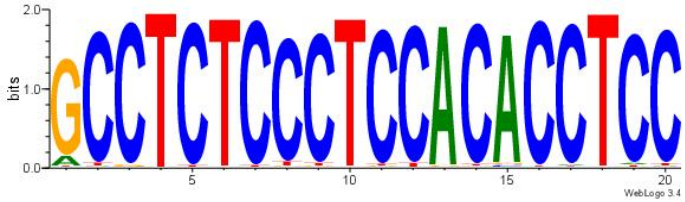

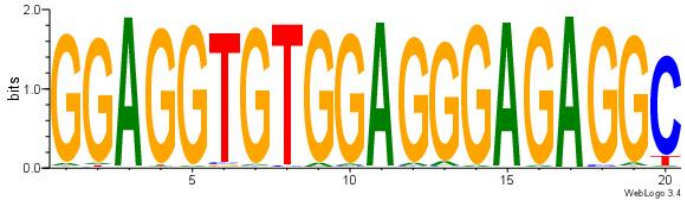

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0898405

Alignment:

```
TGCTCACACAAAGCCTGT
---CCGCACATGG-----
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

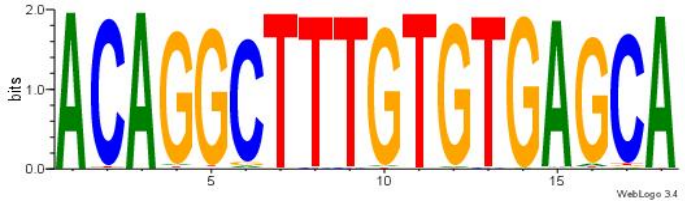

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

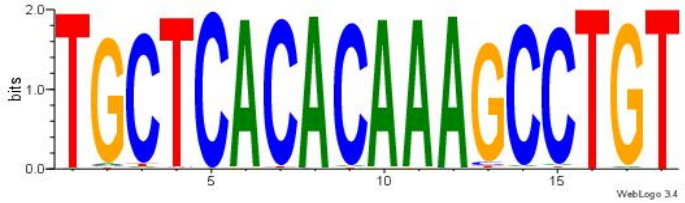

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0898599

Alignment:

```
ATACAATGGGGGTACAGRC
---CCATGTGCGG------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

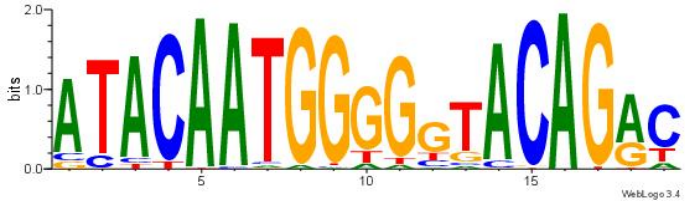

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

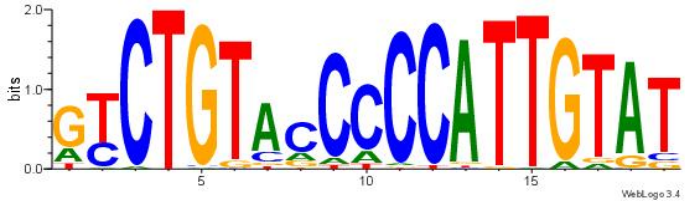

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0900687

Alignment:
CMTAGYACAGTGCCTGGCAC
-------CCGCACATGG---

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

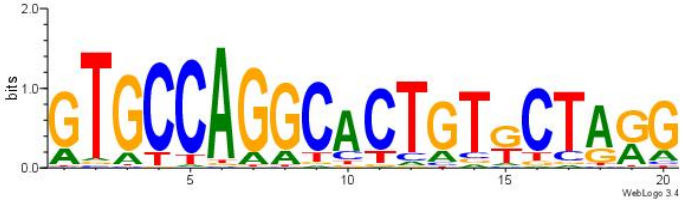

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

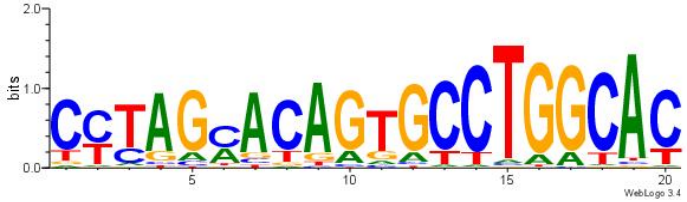

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0910864

Alignment:
CCGCGGGGCAGGGCTCG
---CCGCACATGG----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence:
CCGCGGGGCAGGGCTCG

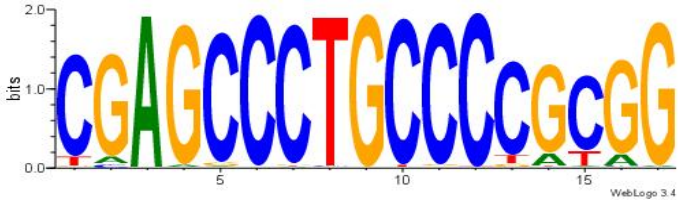

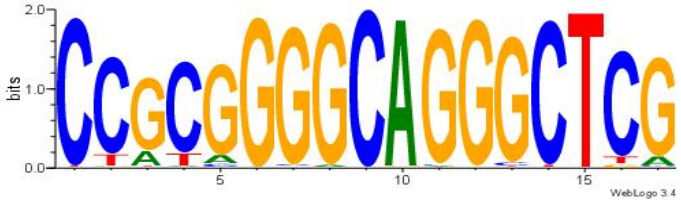

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0917014

Alignment:

```
TTMGTCCCAGAGGGGCACC
----CCGCACATGG-----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

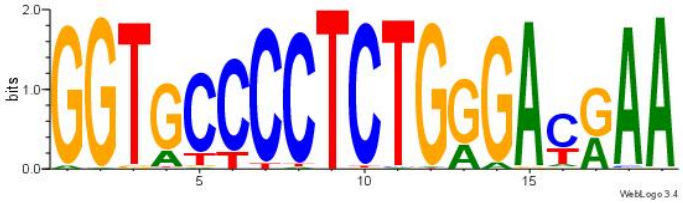

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

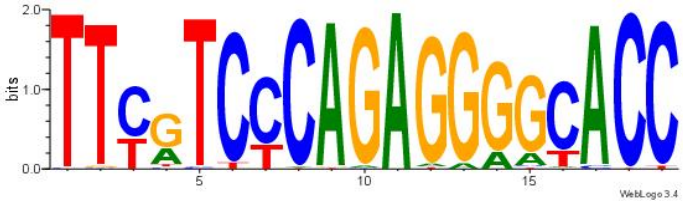

Dataset #: 1

Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0921505

Alignment:

```
CATGGAGCGGKK
CCATGTGCGG--
```

Original motif Consensus sequence: CATGGAGCGGKK

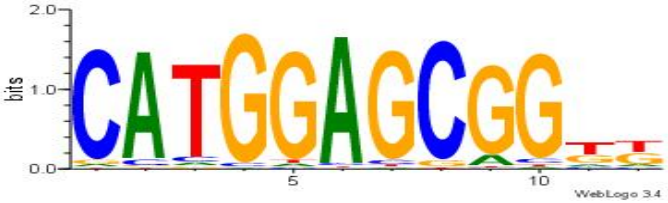

Reverse complement motif Consensus sequence: RRCCGCTCCATG

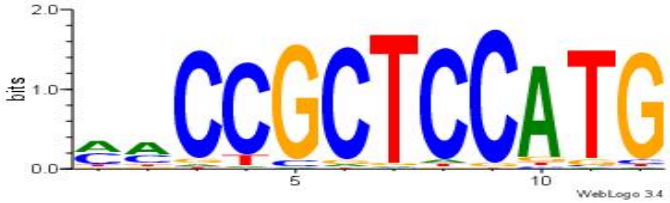

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0928558

Alignment:
ACATCCCAGACGATGGGCG
---CCGCACATGG------

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

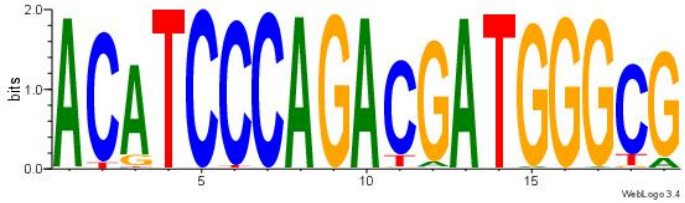

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

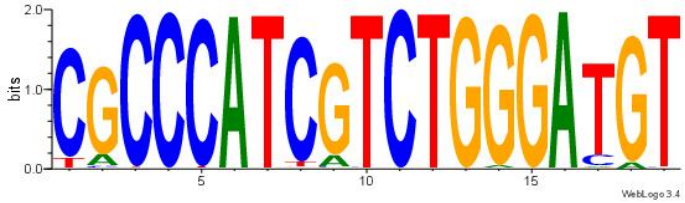

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0931193

Alignment:
AGCTCCCAGCGTGAGCGACG
--------CCATGTGCGG--

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

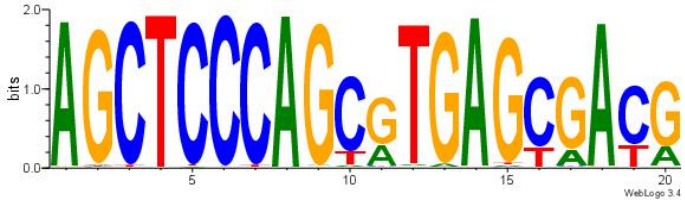

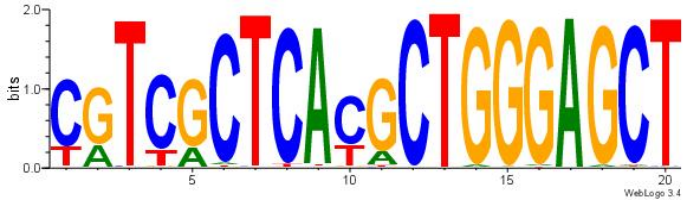

Dataset #: 1 **Motif ID: 133** **Motif name: Motif 133**

Original motif Consensus sequence: CTGYGTCCCCA

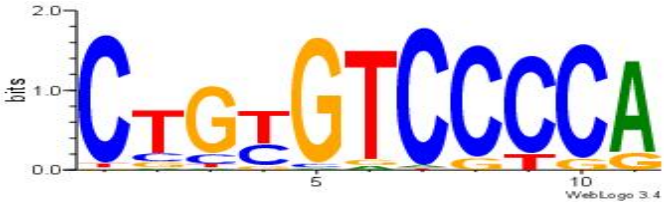

Reverse complement motif Consensus sequence: TGGGGACMCAG

Best Matches for Significant Motif ID 133 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0319466

Alignment:

```
GGCACTGCTGGGGGACCCAG
---------TGGGGACMCAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

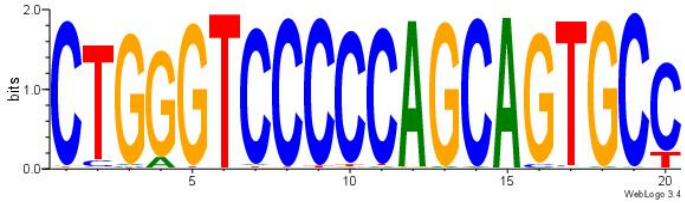

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

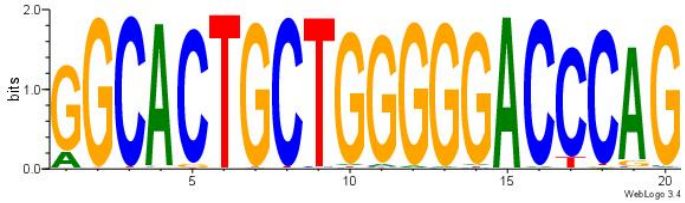

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0508347

Alignment:

```
GKCTGTACCCCCATTGTAT
--CTGYGTCCCCA------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

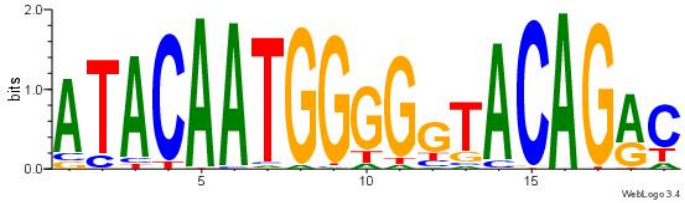

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

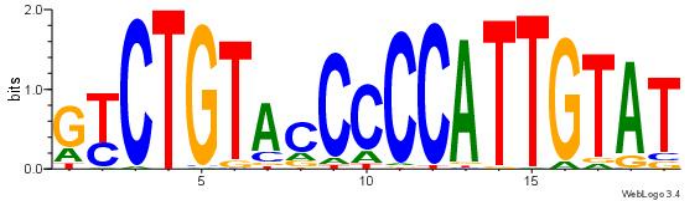

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0518197

Alignment:

```
CAGACTGCCTCCTCAA
----CTGYGTCCCCA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

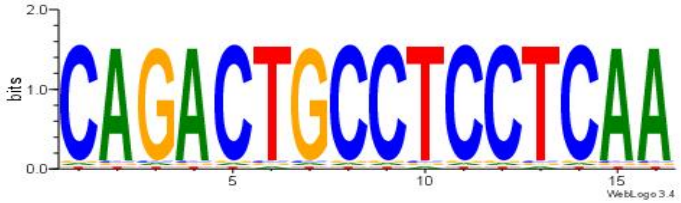

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

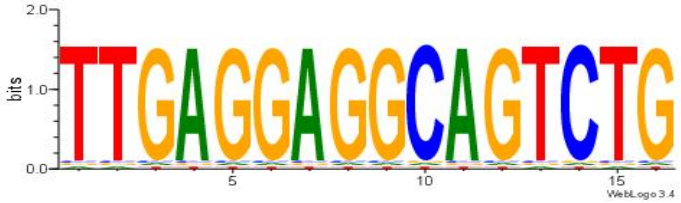

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0670325

Alignment:
AGACYCYGTCTCAA
---CTGYGTCCCCA

Original motif Consensus sequence: AGACYCYGTCTCAA

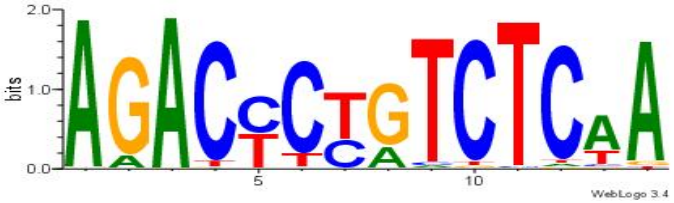

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

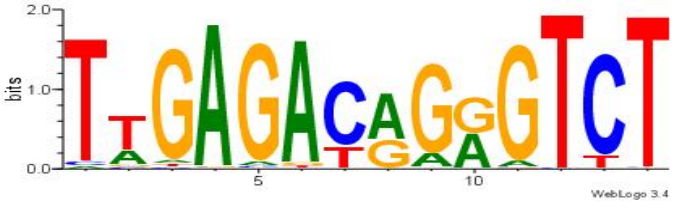

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0690455

Alignment:
CTTGCCCAAGGTCACACAGC
--------TGGGGACMCAG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

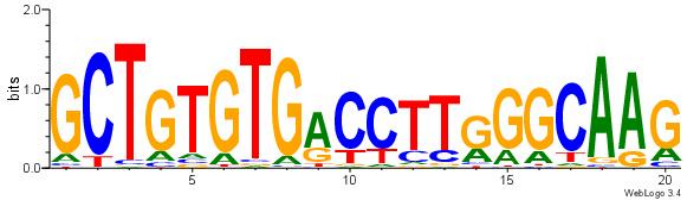

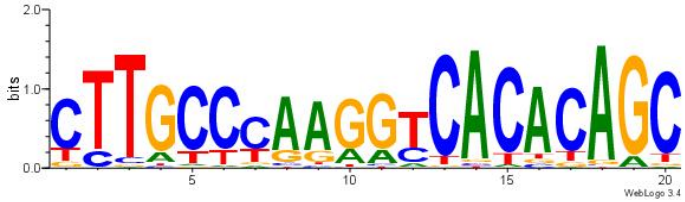

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0716784

Alignment:

```
TGGGGCTCCAGATG
TGGGGACMCAG---
```

Original motif Consensus sequence: CATCTGGAGCCCCA

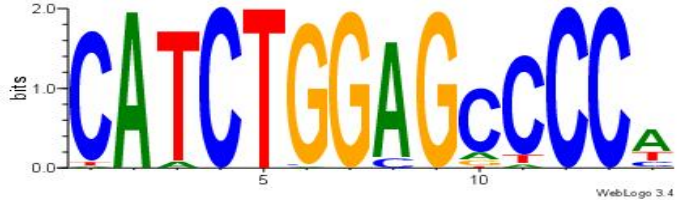

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

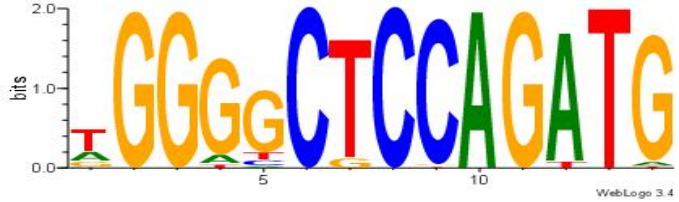

Dataset #:	1
Motif ID:	29

Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0726445

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
--CTGYGTCCCCA-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

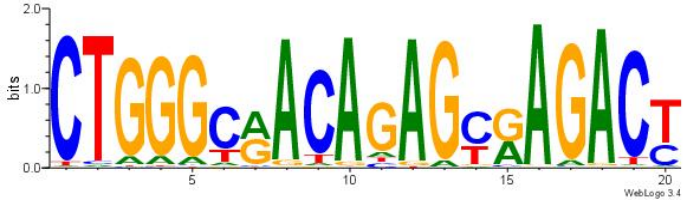

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

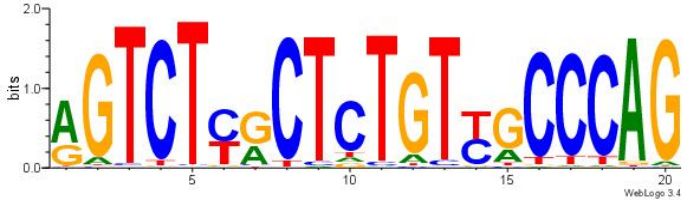

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0727125

Alignment:
CCTTTGACTCCATGTC
-CTGYGTCCCCA----

Original motif Consensus sequence: GACATGGAGTCAAAGG

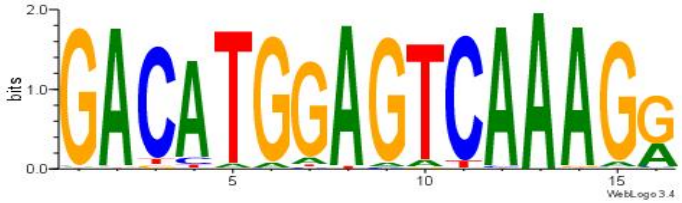

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

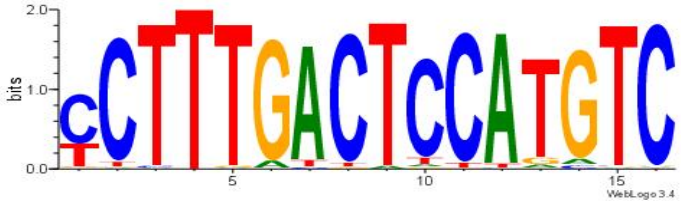

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0730733

Alignment:
GGGGGAGACATCACACR
TGGGGACMCAG------

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

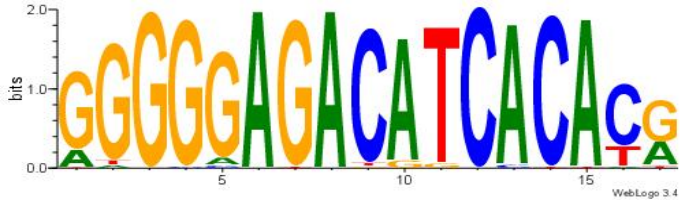

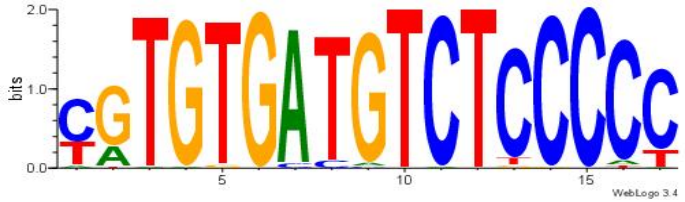

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.074292

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---------CTGYGTCCCCA
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

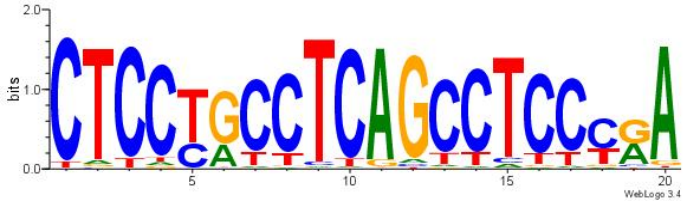

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

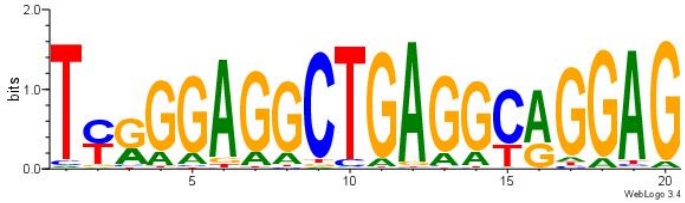

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0748959

Alignment:

```
GCCTCTCCCTCCACACCTCC
----CTGYGTCCCCA-----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

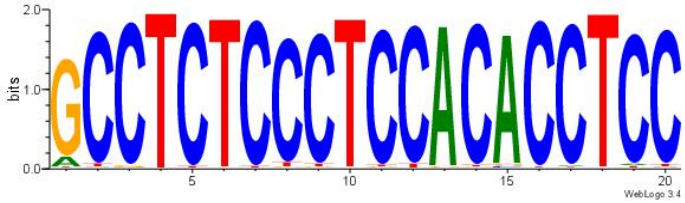

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

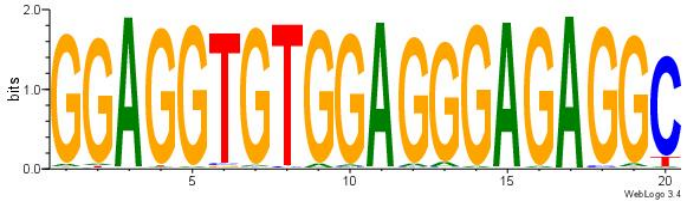

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0763921

Alignment:
BCVTCTGTCACCCC
-CTGYGTCCCCA--

Original motif Consensus sequence: GGGGTGACAGABGB

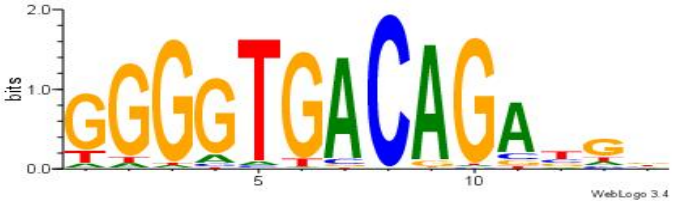

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

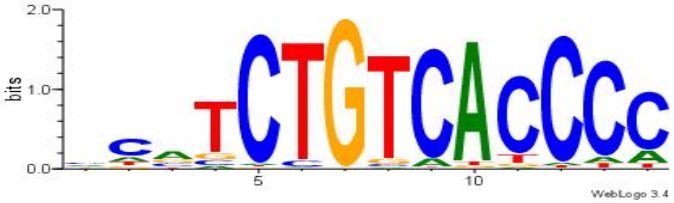

Dataset #: 1
Motif ID: 4
Motif name: Motif 4
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0784503

Alignment:
GCTGGGATTACAGG
-TGGGGACMCAG--

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

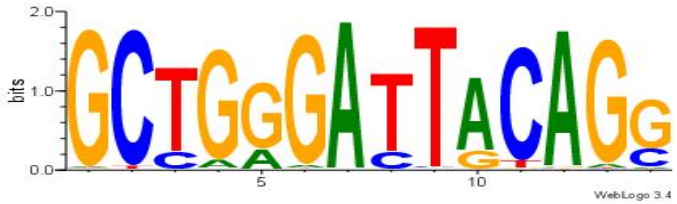

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0800979

Alignment:

```
CTGCGTCGCTCAC
CTGYGTCCCCA--
```

Original motif Consensus sequence: CTGCGTCGCTCAC

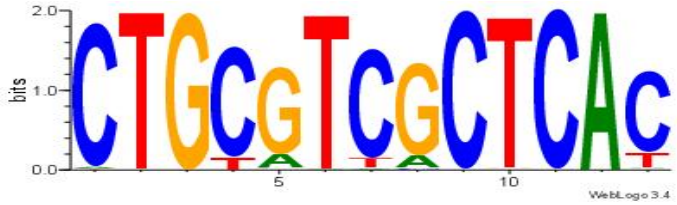

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

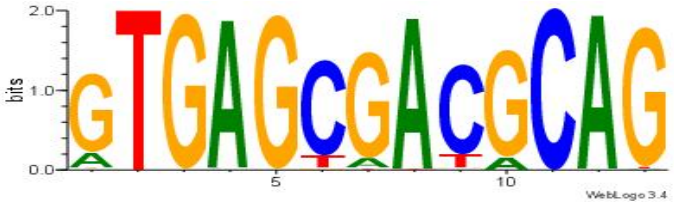

Dataset #:	1
Motif ID:	177

Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0811145

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-------CTGYGTCCCCA--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

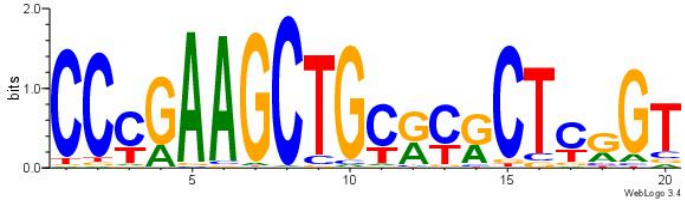

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

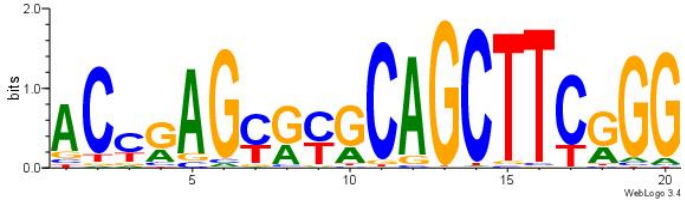

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0815381

Alignment:
CTGTCAGCCCAT
CTGYGTCCCCA-

Original motif Consensus sequence: CTGTCAGCCCAT

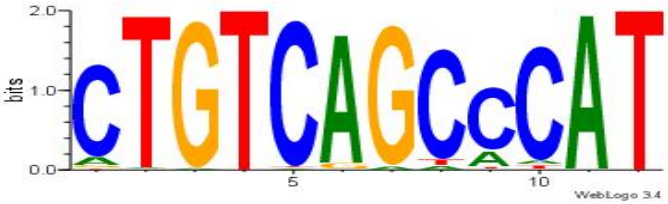

Reverse complement motif Consensus sequence: ATGGGCTGACAG

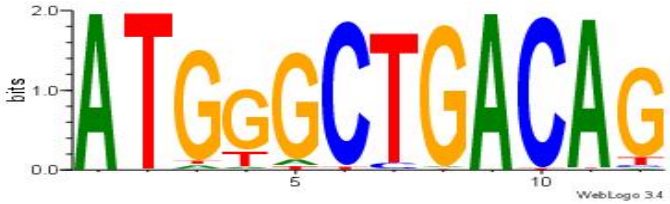

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0820696

Alignment:
CTGGGCAACAAGAG
-TGGGGACMCAG--

Original motif Consensus sequence: CTCTTGTTGCCCAG

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

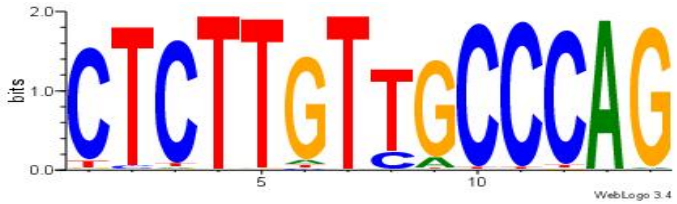

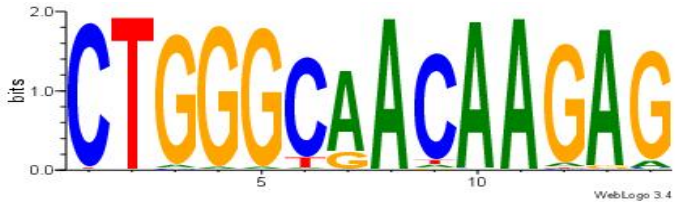

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0824198

Alignment:

```
TCAATGGGCTCCCAAATG
----TGGGGACMCAG---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

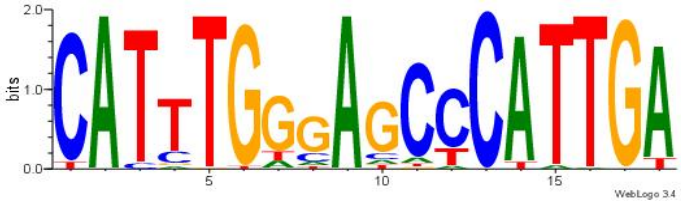

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

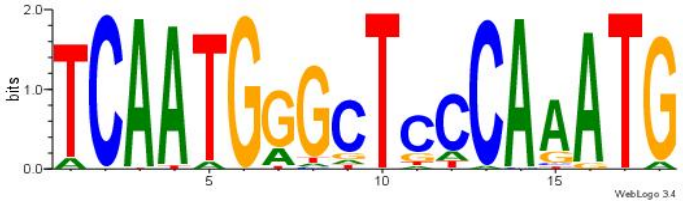

Dataset #: 1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0828817

Alignment:

```
GCACTCTGTMTCTAGCT
---CTGYGTCCCCA---
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

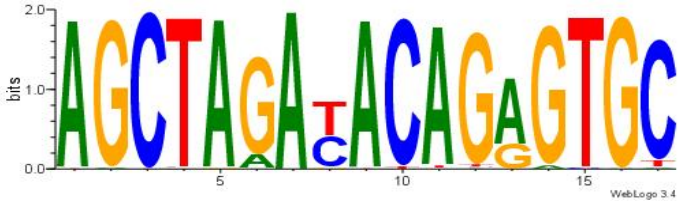

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

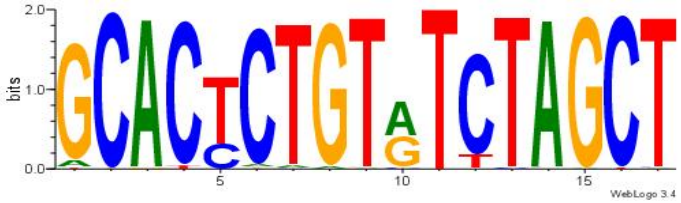

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0830464

Alignment:
GCGMGCGGGAACCGGGGCT
----TGGGGACMCAG----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

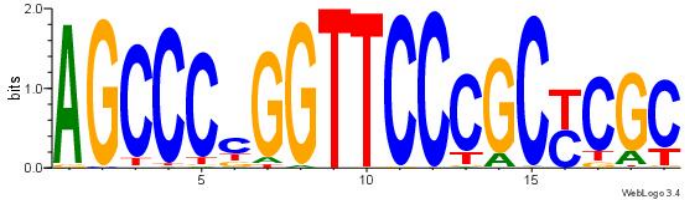

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

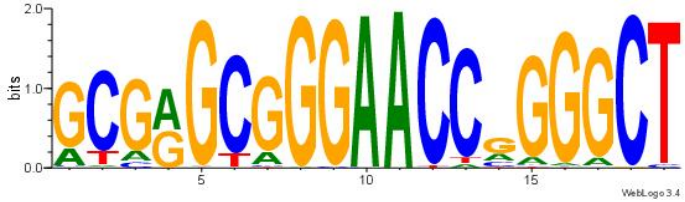

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0838751

Alignment:
TGGGCTGCCAGATG
TGGGGACMCAG---

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

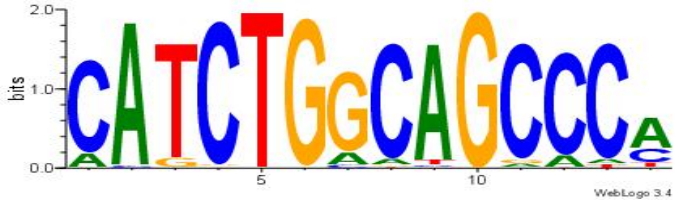

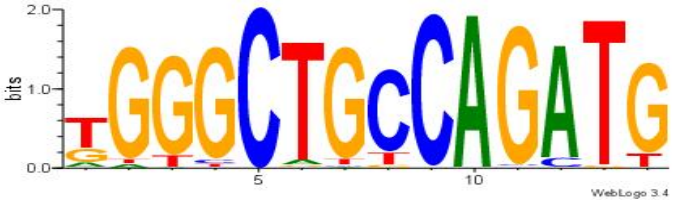

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.084427

Alignment:

```
GTGGGTGCAGTGCA
-TGGGGACMCAG--
```

Original motif Consensus sequence: TGCACTGCACCCAC

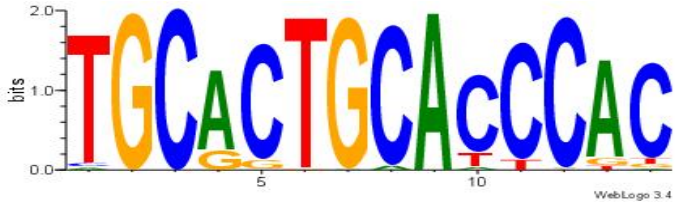

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

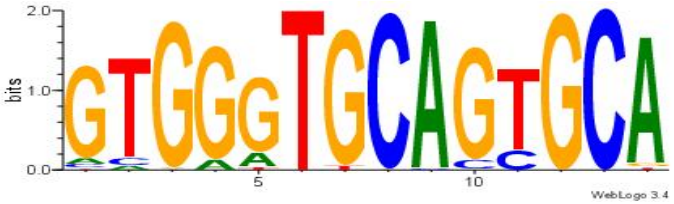

Dataset #:	1
Motif ID:	69

Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0846401

Alignment:

```
TGTAKTCCCAGCTAC
TGGGGACMCAG----
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

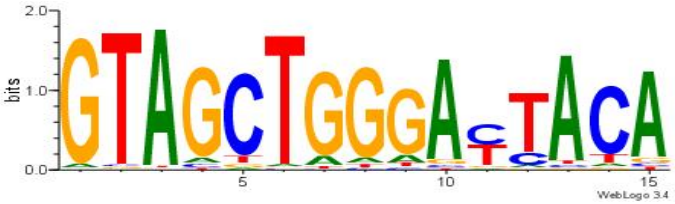

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

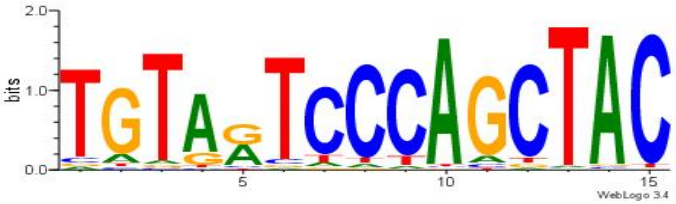

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0847372

Alignment:
GGGAGGTGTCTCCCAGTCAG
---CTGYGTCCCCA------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

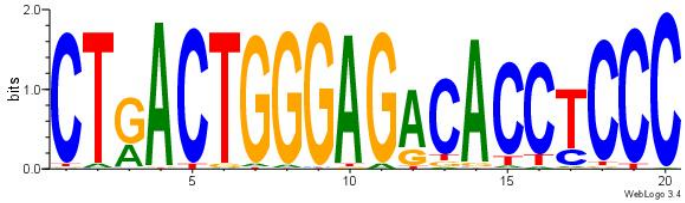

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

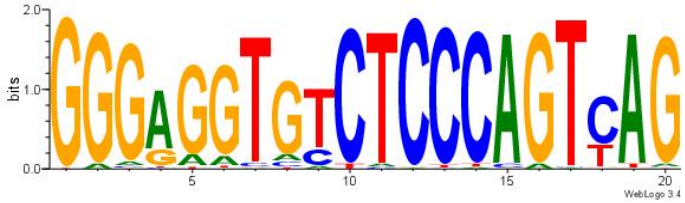

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0848963

Alignment:
GTTGGATTCCCAG
--TGGGGACMCAG

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0857867

Alignment:

```
GGTGGGGGGGTCAGCCCCC
---TGGGGACMCAG-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

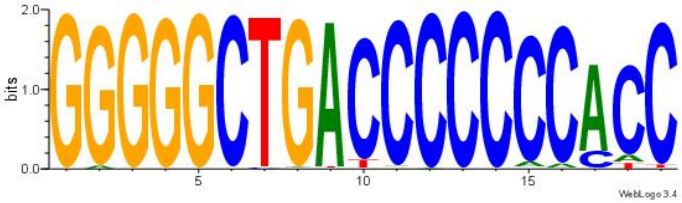

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

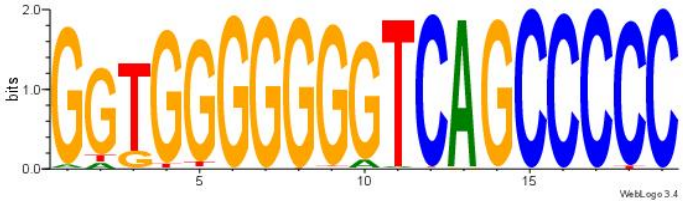

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0858897

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CTGYGTCCCCA----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

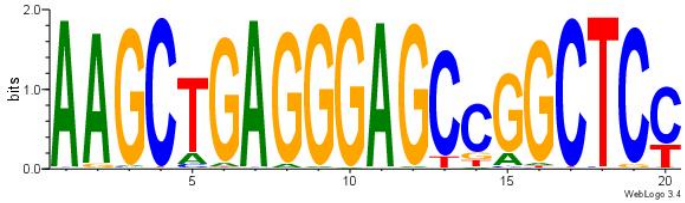

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

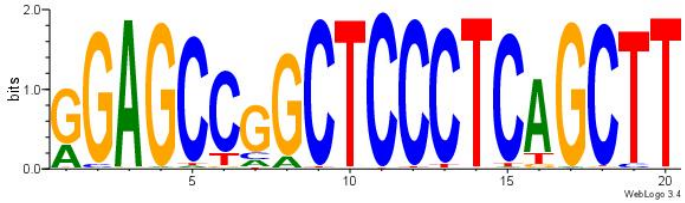

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0859755

Alignment:
TGGAGAACCTTTATGTCTAG
TGGGGACMCAG---------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

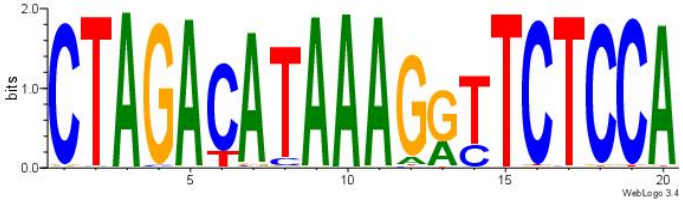

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

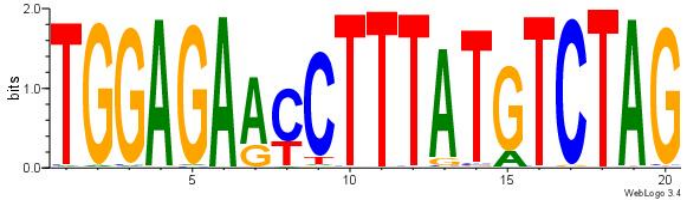

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0873911

Alignment:
ATGTGGAGGTGGAAGACAGT
--------TGGGGACMCAG-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

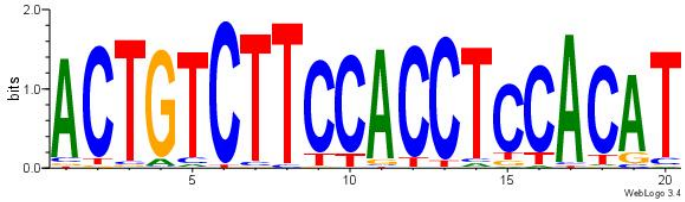

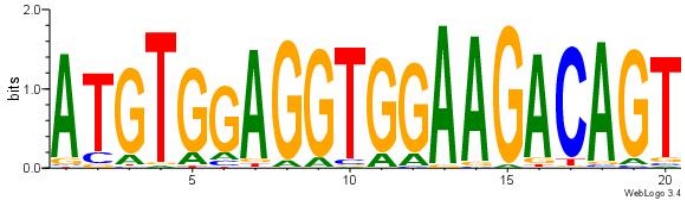

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.087583

Alignment:

```
CCCCWCCCCCA
CTGYGTCCCCA
```

Original motif Consensus sequence: CCCCWCCCCCA

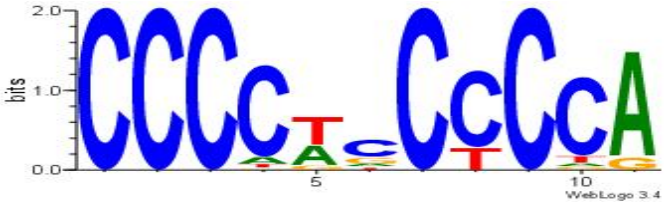

Reverse complement motif Consensus sequence: TGGGGGWGGGG

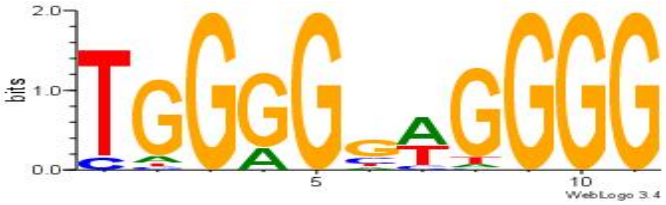

Dataset #:	1
Motif ID:	108

Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0879693

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CTGYGTCCCCA--------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

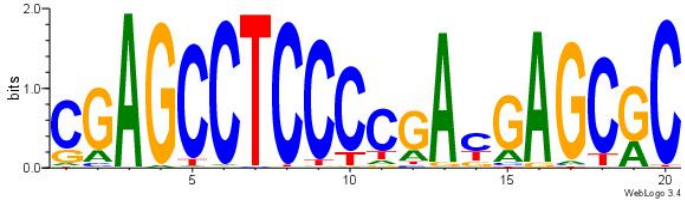

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

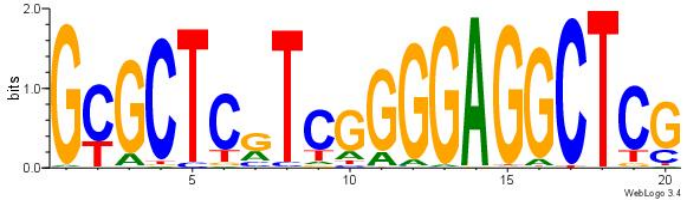

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0885217

Alignment:
GAAHCAACCKAAKTGTCCAT
-CTGYGTCCCCA--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

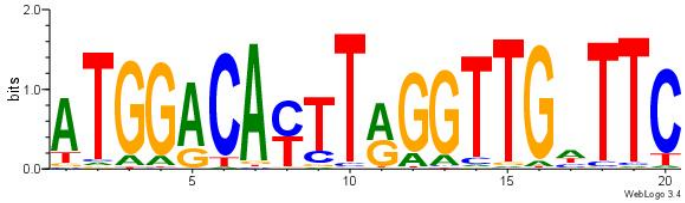

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

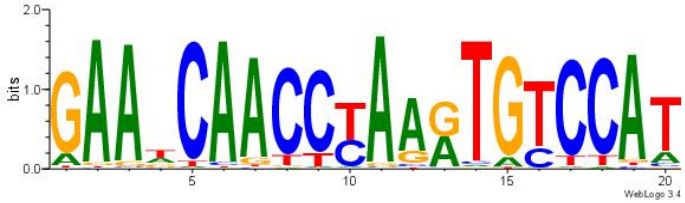

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.088545

Alignment:
TAATTTTATGTGTCAACTTG
-------CTGYGTCCCCA--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

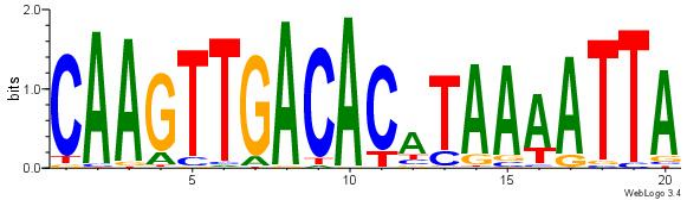

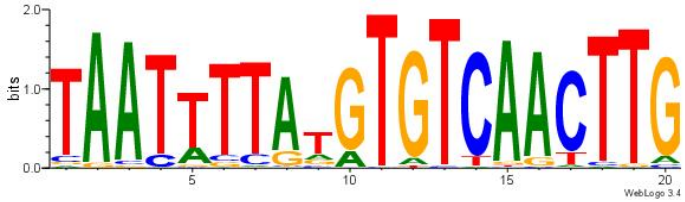

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0885846

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-------TGGGGACMCAG--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

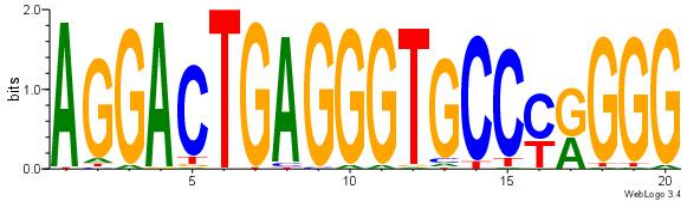

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

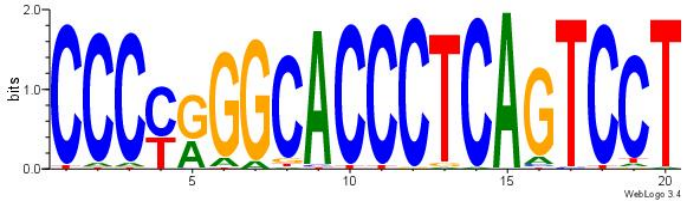

Dataset #: 1

Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0889849

Alignment:

```
CTGAGGACCTGAGGTCRTA
-TGGGGACMCAG-------
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

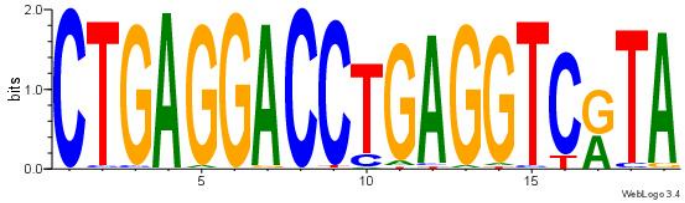

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

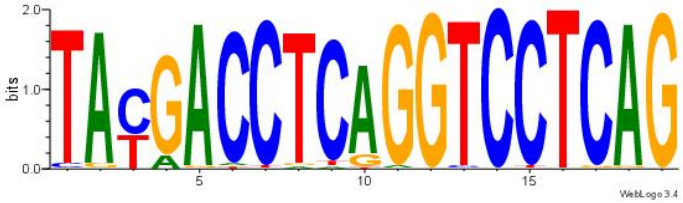

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0894788

Alignment:
CCAAGACYCCAGAC
CTGYGTCCCCA---

Original motif Consensus sequence: CCAAGACYCCAGAC

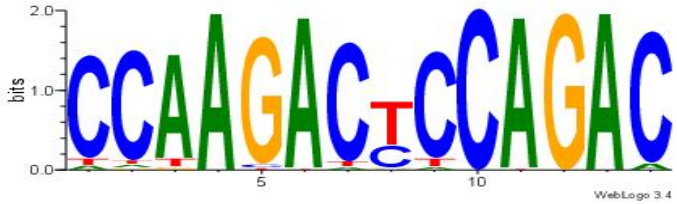

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

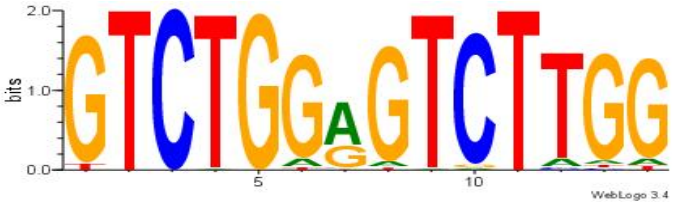

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0900898

Alignment:
AGACAGTGGGYGCAGGHCA
----TGGGGACMCAG----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

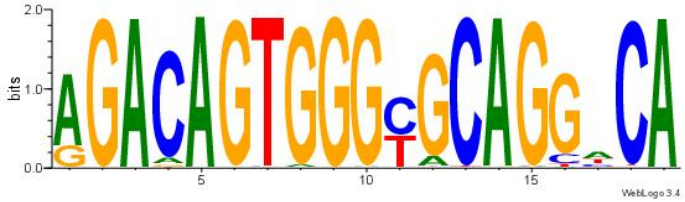

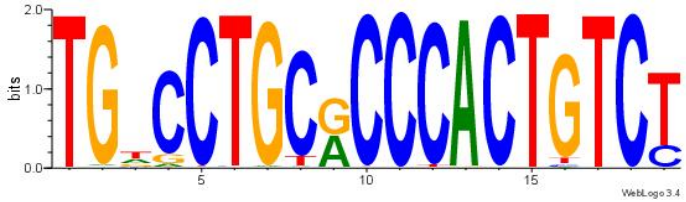

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0906579

Alignment:

```
CAGTCTGTGTCTTTTAATT
----CTGYGTCCCCA----
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

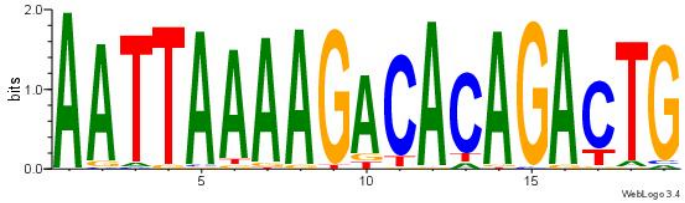

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

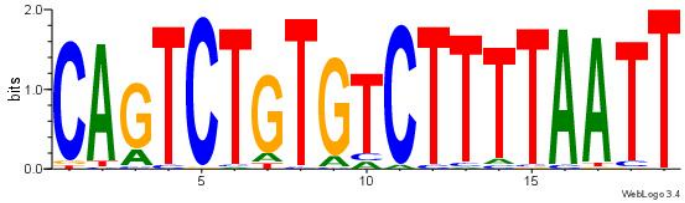

Dataset #:	1

Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0906742

Alignment:

```
GGGTTTCACCAT
-CTGYGTCCCCA
```

Original motif Consensus sequence: ATGGTGAAACCC

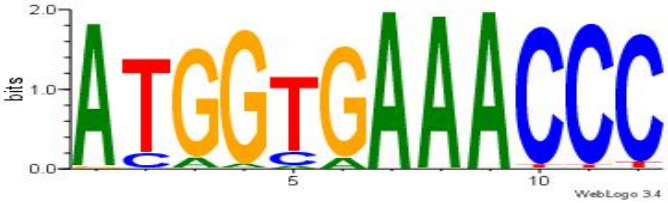

Reverse complement motif Consensus sequence: GGGTTTCACCAT

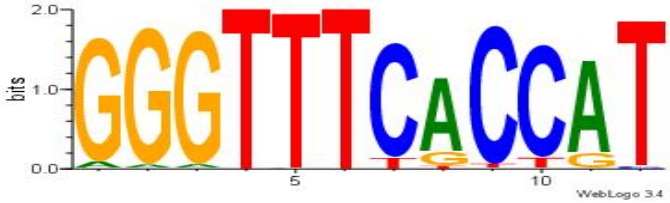

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0908822

Alignment:
TGCAGCCCCGGT
TGGGGACMCAG-

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

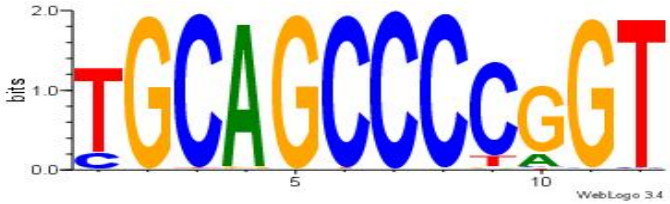

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0909236

Alignment:
CRTGAGCCACYGYRCCYGGC
-------CTGYGTCCCCA--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

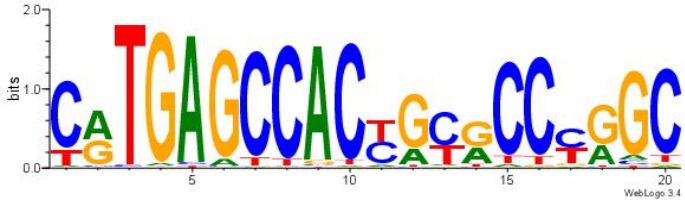

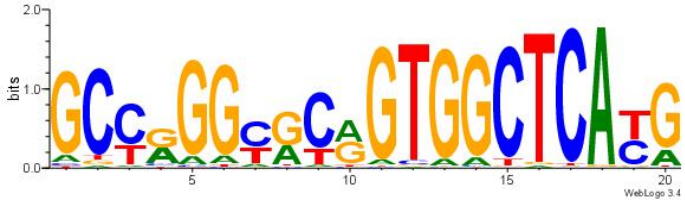

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0909813

Alignment:

```
CTGTTTGCCTGGGTATCA
CTGYGTCCCCA-------
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

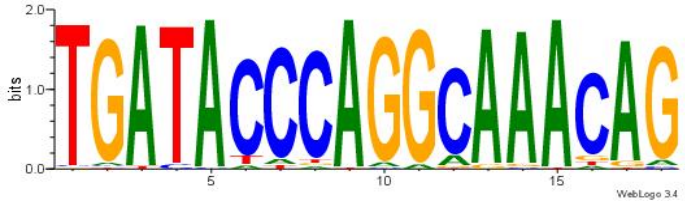

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

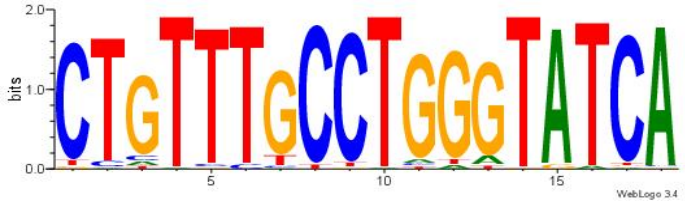

Dataset #:	1

Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0909863

Alignment:

```
CTCCTGCCTCAGCY
CTGYGTCCCCA---
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

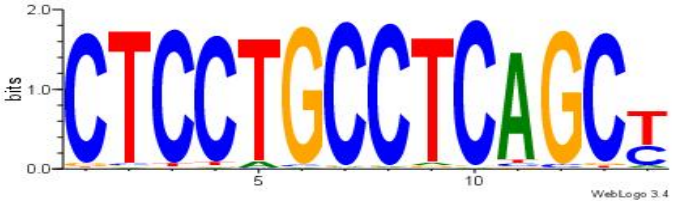

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

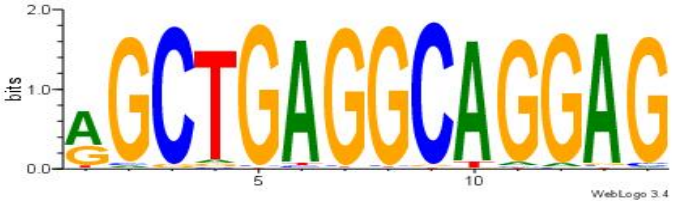

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0916436

Alignment:
TGATGGGTGCACCAAA
---TGGGGACMCAG--

Original motif Consensus sequence: TGATGGGTGCACCAAA

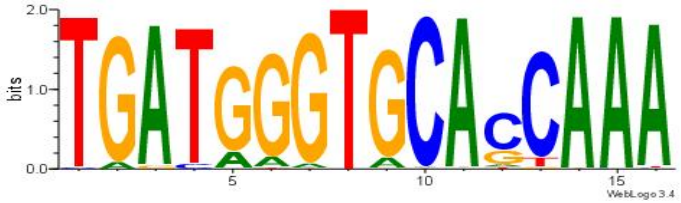

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

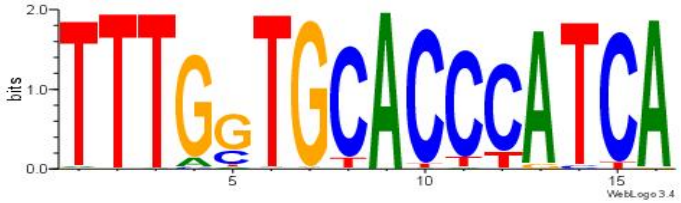

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0918018

Alignment:
GGCTGCGGAGGGTGTA
--TGGGGACMCAG---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

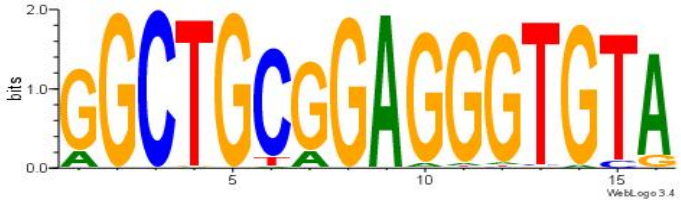

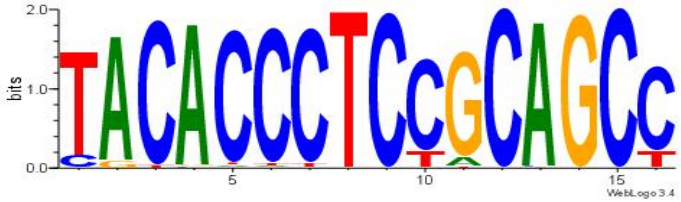

Dataset #:	1
Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0918527

Alignment:

```
TGTAATCCCAG
TGGGGACMCAG
```

Original motif Consensus sequence: CTGGGATTACA

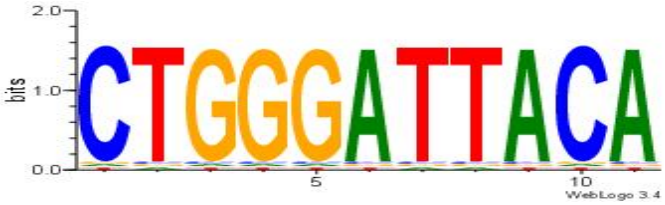

Reverse complement motif Consensus sequence: TGTAATCCCAG

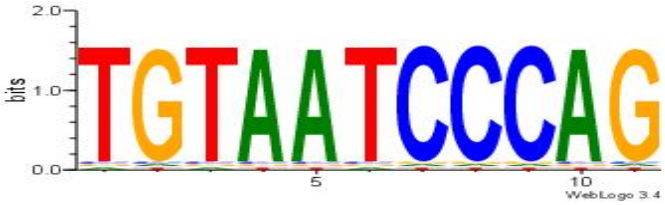

Dataset #:	1
Motif ID:	38

Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0922643

Alignment:

```
TCTMKGCTCACTGC
--TGGGGACMCAG-
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

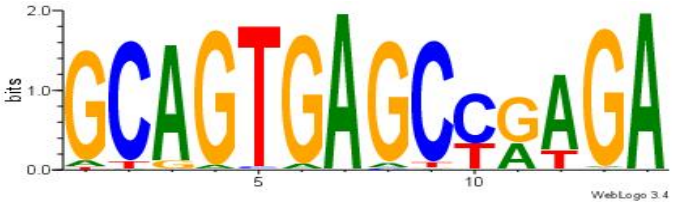

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

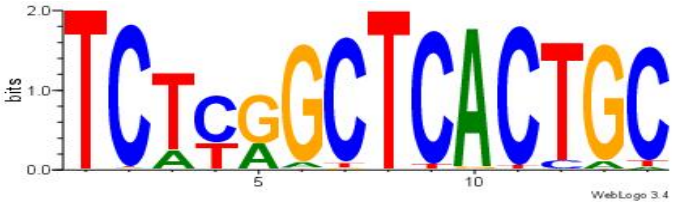

Dataset #:	1
Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0924519

Alignment:
GGGGTGAVCAGAT
TGGGGACMCAG--

Original motif Consensus sequence: GGGGTGAVCAGAT

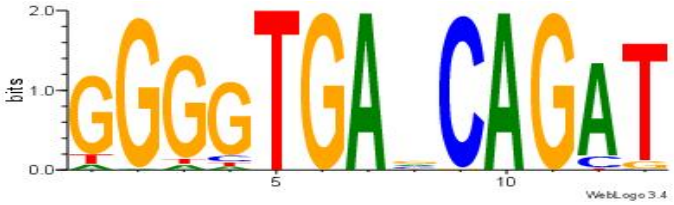

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

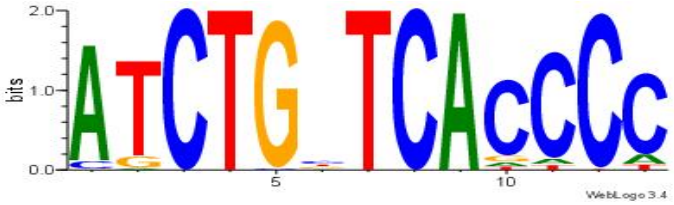

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0925004

Alignment:
ATATTGATGATCCTGACC
----TGGGGACMCAG---

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

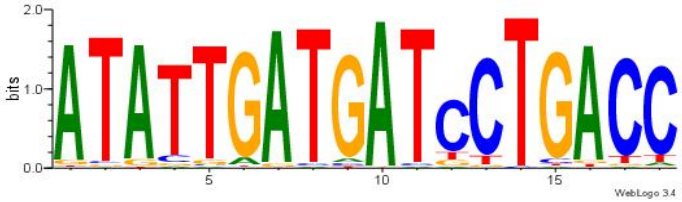

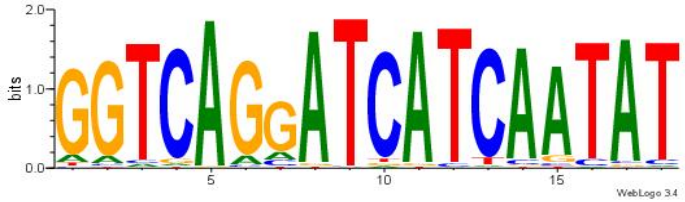

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0927019

Alignment:

```
TCTCTGAGCCTCAGTT
---CTGYGTCCCCA--
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

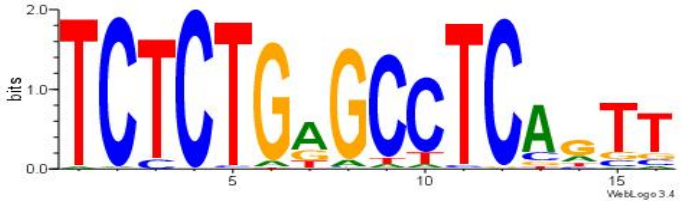

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

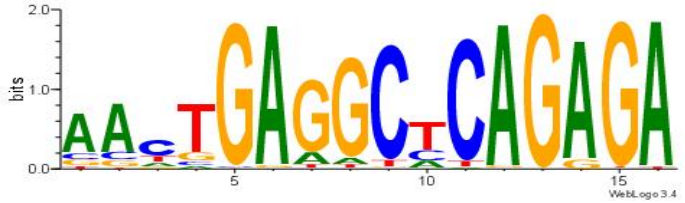

Dataset #: 1 Motif ID: 123 Motif name: Motif 123

Original motif Consensus sequence: AGCAGTCTGAG

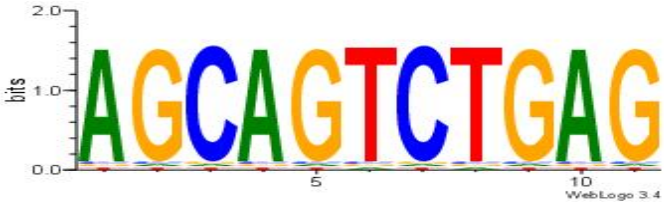

Reverse complement motif Consensus sequence: CTCAGACTGCT

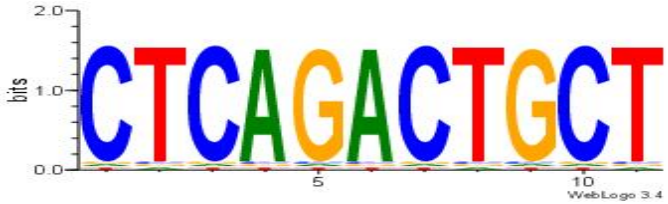

Best Matches for Significant Motif ID 123 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0598949

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-------AGCAGTCTGAG--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

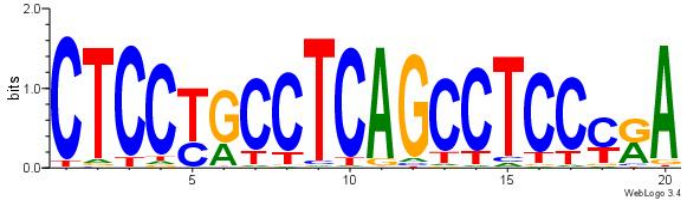

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

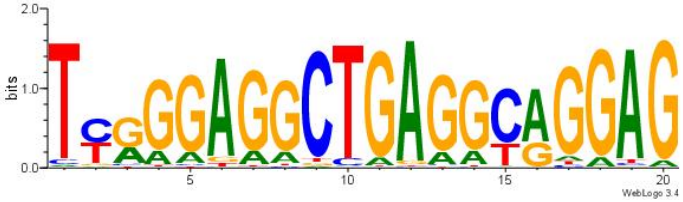

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0609349

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CTCAGACTGCT-------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

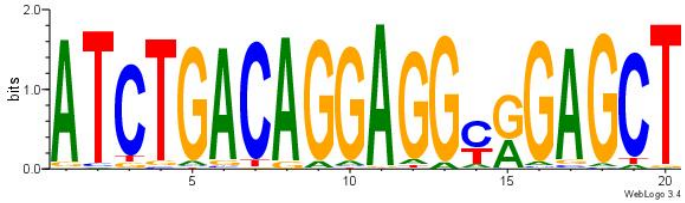

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

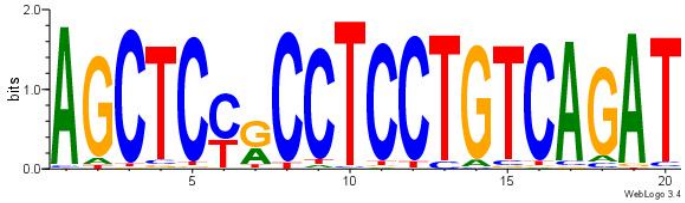

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9

Number of overlap: 11
Similarity score: 0.0631275

Alignment:
AAGCAGGGCGAGGCATTGCC
-AGCAGTCTGAG--------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

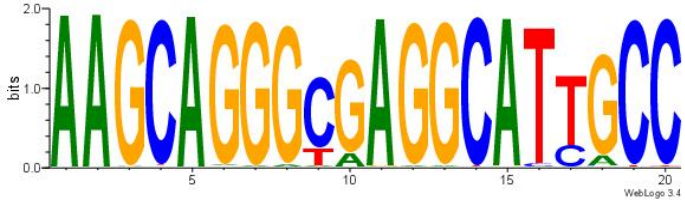

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

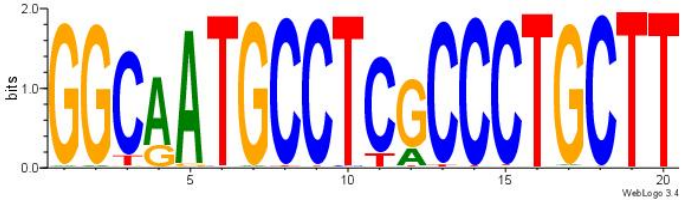

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0649018

Alignment:
CACCAGACTCAGGAGCCCAG
--------AGCAGTCTGAG-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

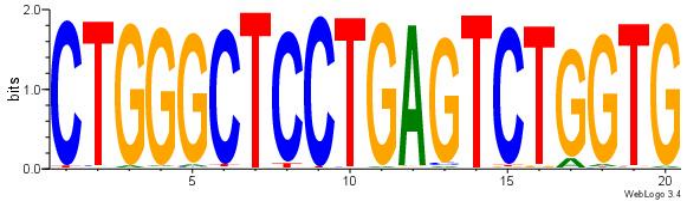

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

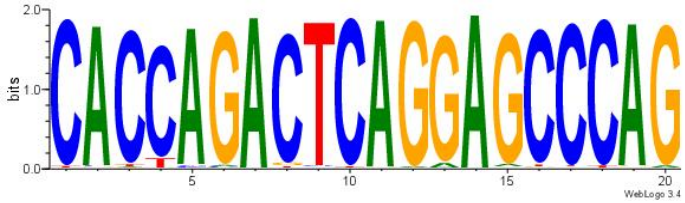

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0650683

Alignment:

```
GCTGCARTCTCGGCACTTT
--AGCAGTCTGAG------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

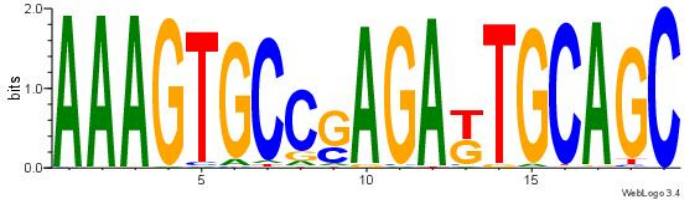

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

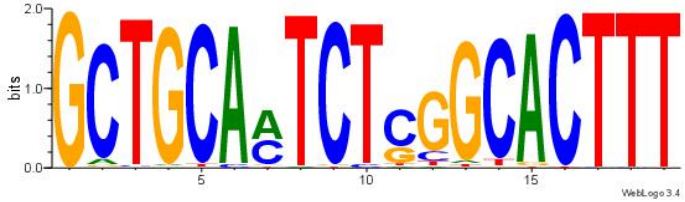

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0653347

Alignment:

```
CMGCTCCGAGTGCGG
---CTCAGACTGCT-
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

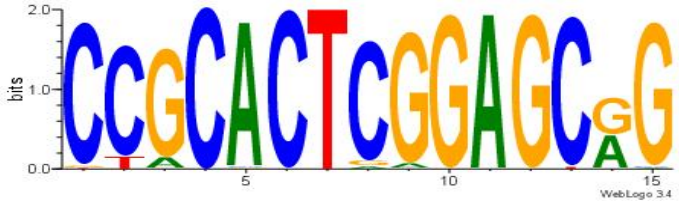

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

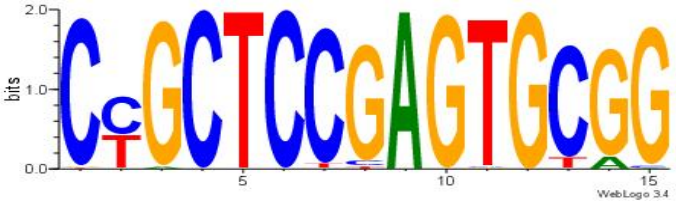

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 11
Similarity score: 0.0672106

Alignment:
TACCTGAGACTGGGTAATTT
---CTCAGACTGCT------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

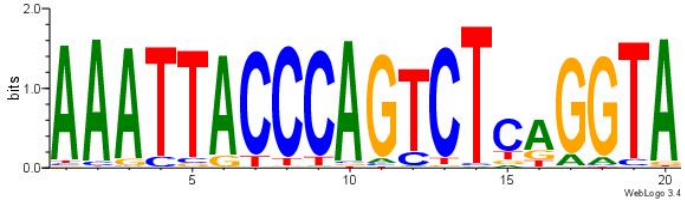

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

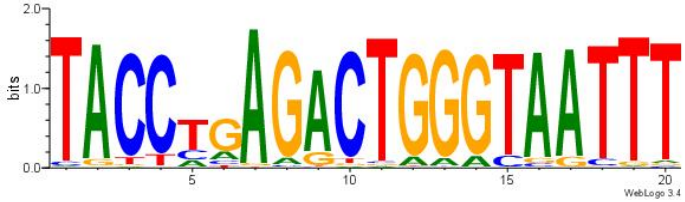

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0684817

Alignment:
ATGGCCTATGACYGSTTTG
-----CTCAGACTGCT---

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

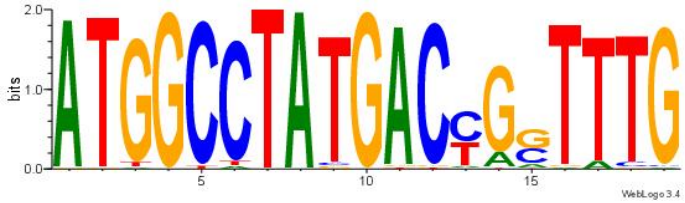

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

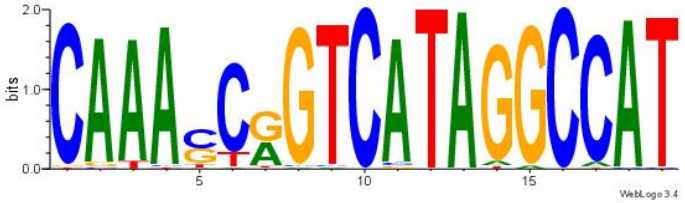

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0699921

Alignment:

```
ACTCAGCCCRCCTGCACCC
-CTCAGACTGCT-------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

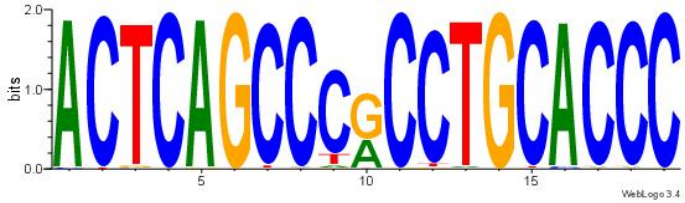

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

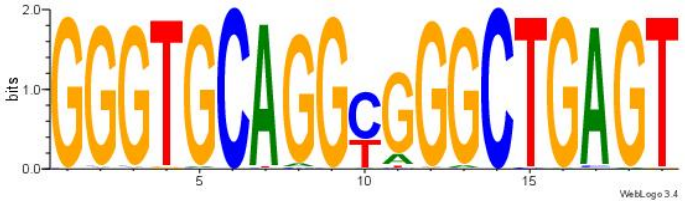

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0737589

Alignment:

```
MGGAAACTGAGGC
--AGCAGTCTGAG
```

Original motif Consensus sequence: GCCTCAGTTTCCY

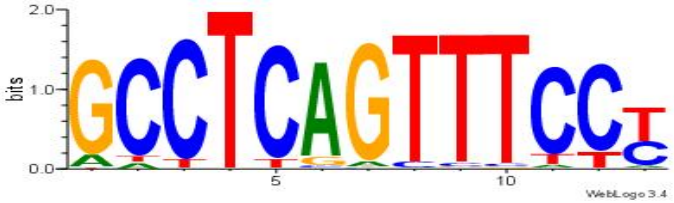

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

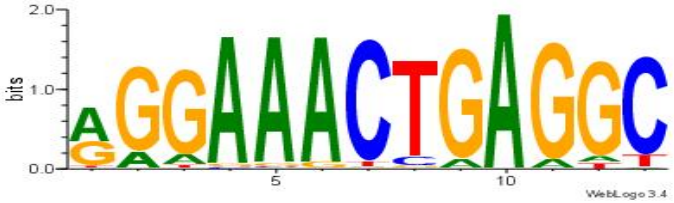

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0742826

Alignment:
AGTGTTTCCAAMCTGCT
------CTCAGACTGCT

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

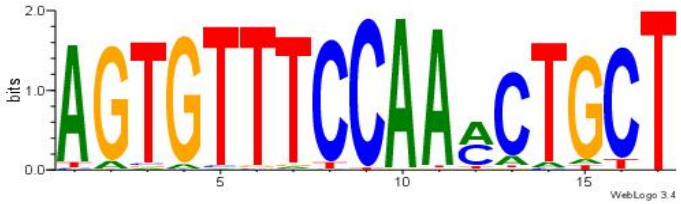

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

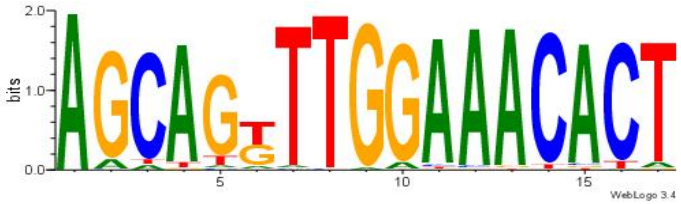

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0742829

Alignment:
AGACCAGCCTGGCCAAC
--AGCAGTCTGAG----

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

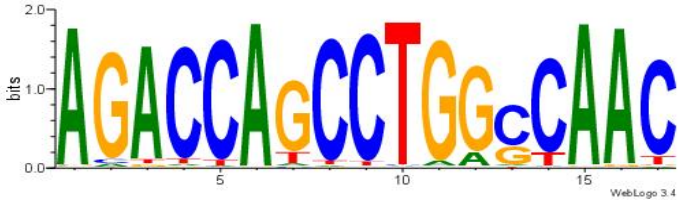

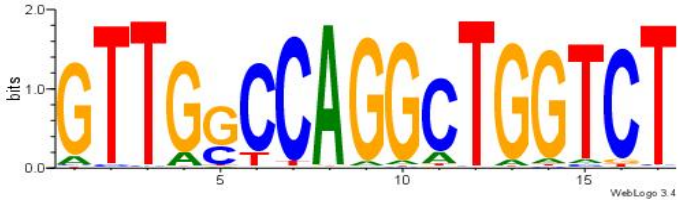

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0767698

Alignment:

```
CCCYAATACTGCGCTTTTC
--CTCAGACTGCT------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

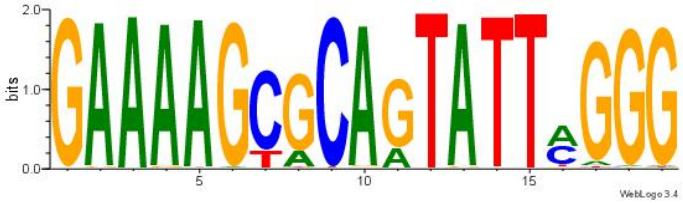

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

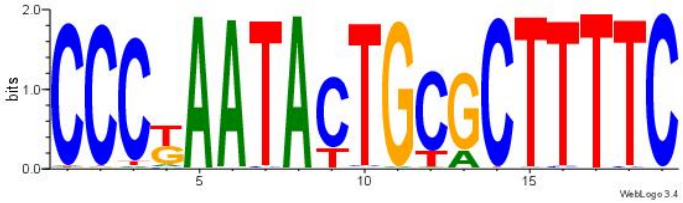

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0794812

Alignment:

```
AAGCTCGAACTGGGTGGAGC
---CTCAGACTGCT------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

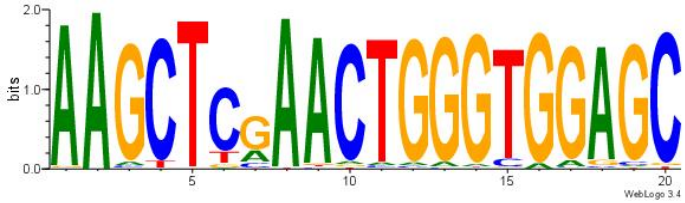

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

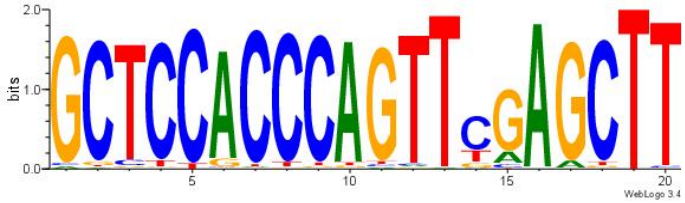

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0808007

Alignment:
CTCACAGAGTTAAA
CTCAGACTGCT---

Original motif Consensus sequence: CTCACAGAGTTAAA

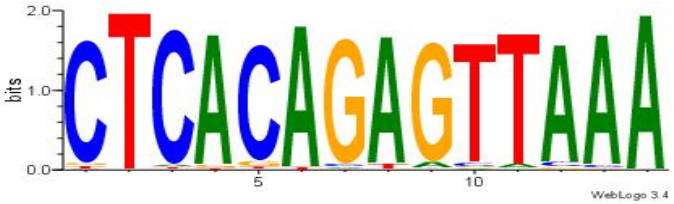

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

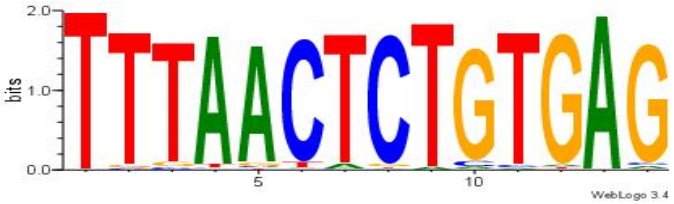

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0812853

Alignment:
AGCTCCCAGCGTGAGCGACG
----AGCAGTCTGAG-----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

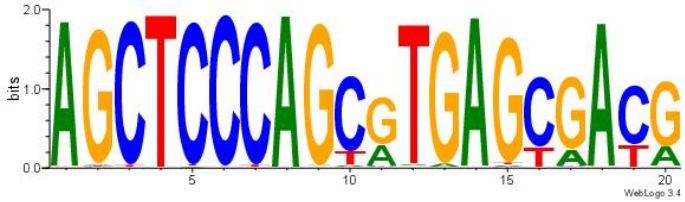

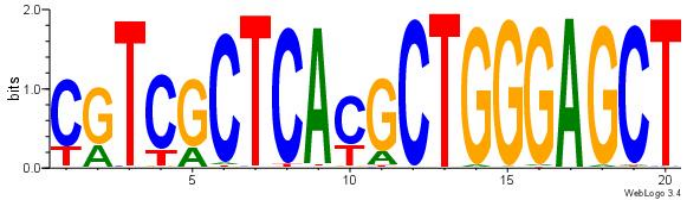

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0820669

Alignment:

```
AAAATCACAAGCATTCCTAT
---------AGCAGTCTGAG
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

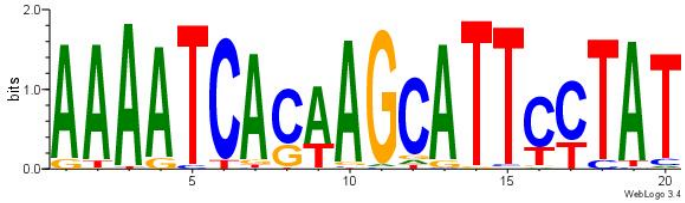

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

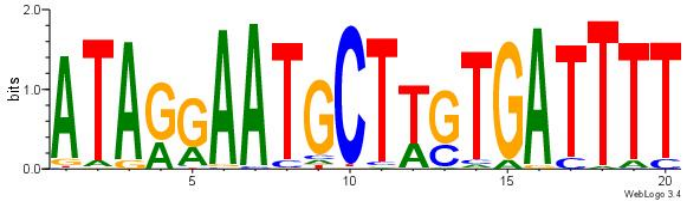

Dataset #:	1

Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0824372

Alignment:

```
TACTCMGGAGGCT
--CTCAGACTGCT
```

Original motif Consensus sequence: AGCCTCCYGAGTA

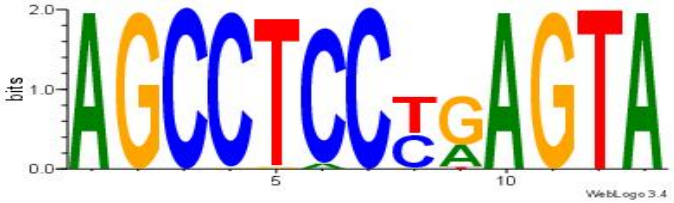

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

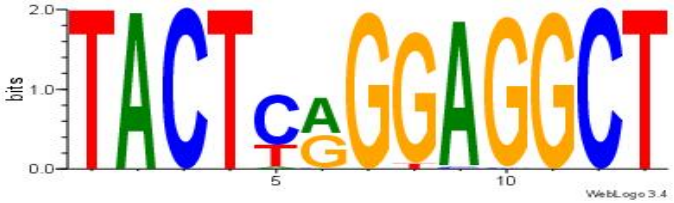

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0828059

Alignment:
AAGCTGAGGGAGCCGGCTCC
-AGCAGTCTGAG--------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

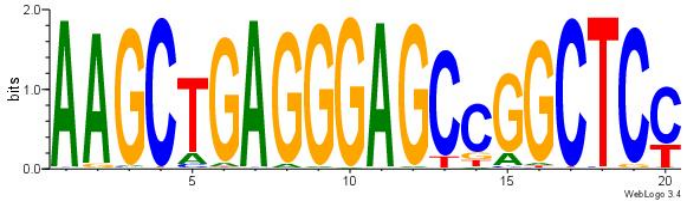

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

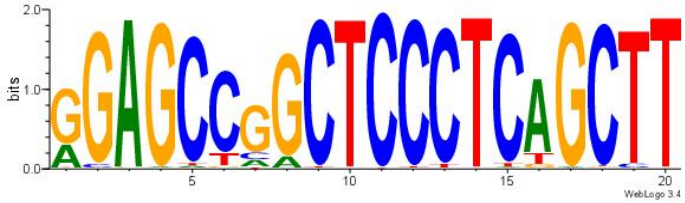

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0833224

Alignment:
CCTTTGACTCCATGTC
-CTCAGACTGCT----

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

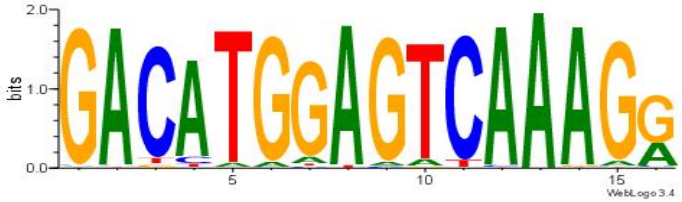

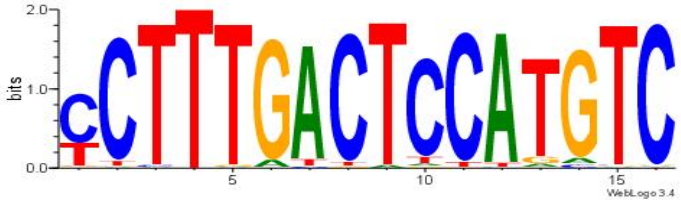

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0833461

Alignment:

```
CACCTCCCAGACMGGGT
-----CTCAGACTGCT-
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

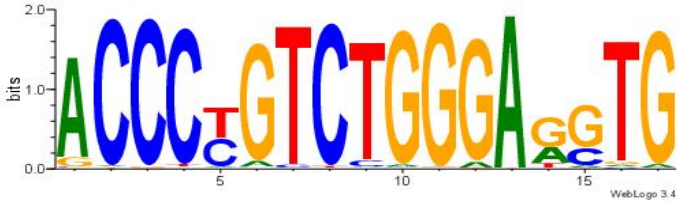

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

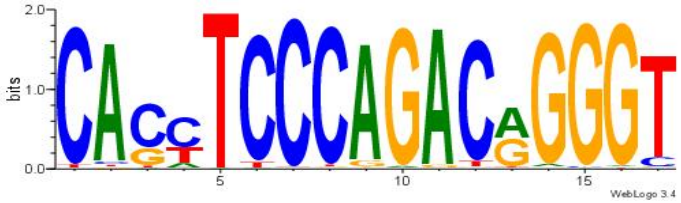

Dataset #: 1

Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0836894

Alignment:

```
CGCCCCGTCTGGGAAGTG
-----AGCAGTCTGAG--
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

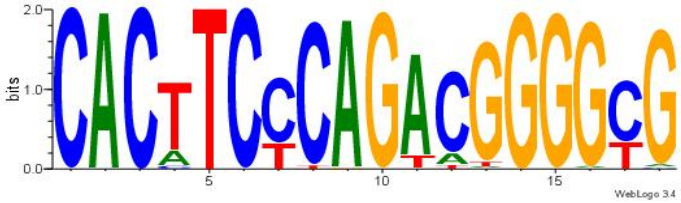

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

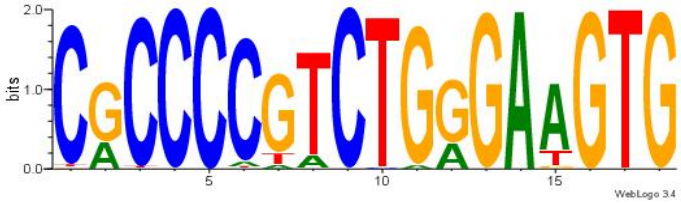

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0839029

Alignment:
AGGACTGAGGGTGCCYRGGG
----CTCAGACTGCT-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

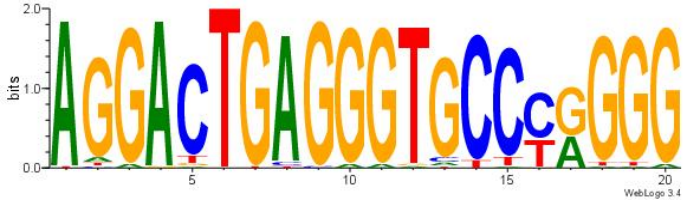

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

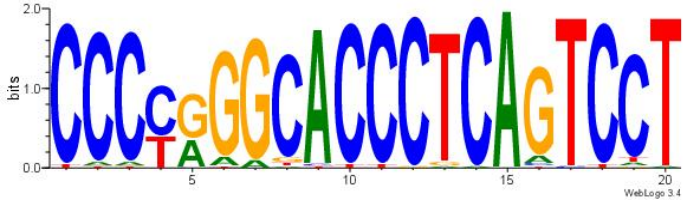

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0842094

Alignment:
ATCATTCTTATGCCTTTG
AGCAGTCTGAG-------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

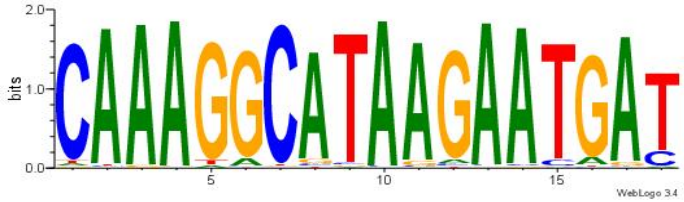

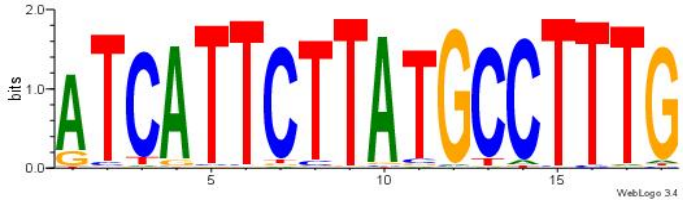

Dataset #:	1
Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0843077

Alignment:

```
ACCCCGTCTGGGA
-AGCAGTCTGAG-
```

Original motif Consensus sequence: ACCCCGTCTGGGA

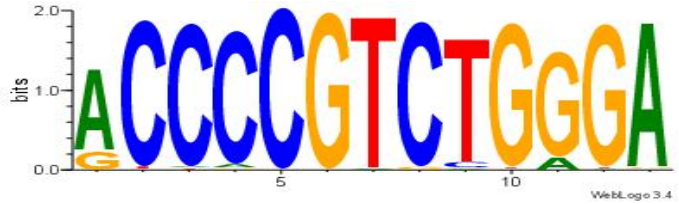

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

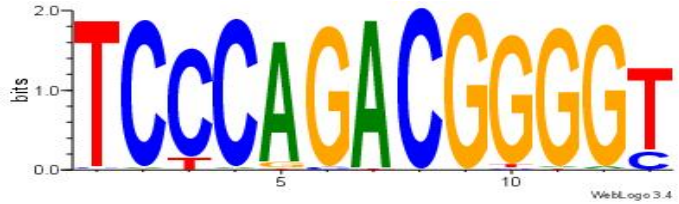

Dataset #:	1
Motif ID:	307

Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.085103

Alignment:

```
AGATGCCAGCCAGAGCTCT
----AGCAGTCTGAG----
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

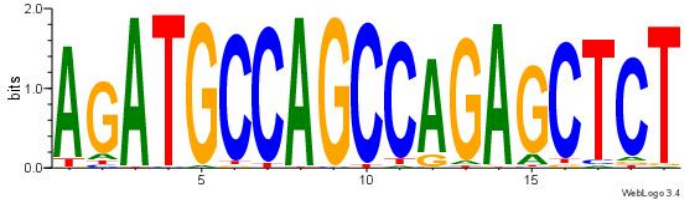

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

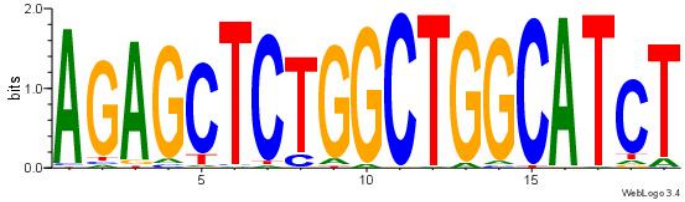

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0854112

Alignment:
GAATCCTGGGACAGCCTGT
-----CTCAGACTGCT---

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

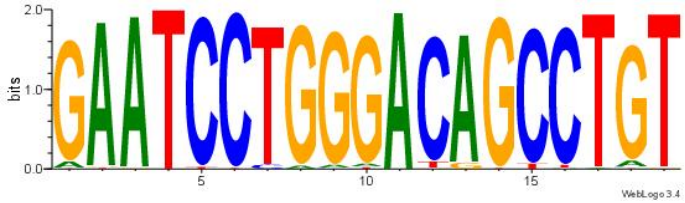

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

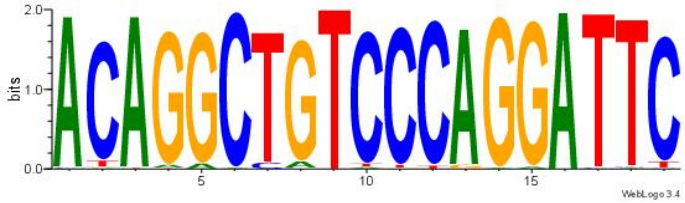

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0856577

Alignment:
CCCCGGGCAGTGAGGG
-----AGCAGTCTGAG

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence:
CCCCGGGCAGTGAGGG

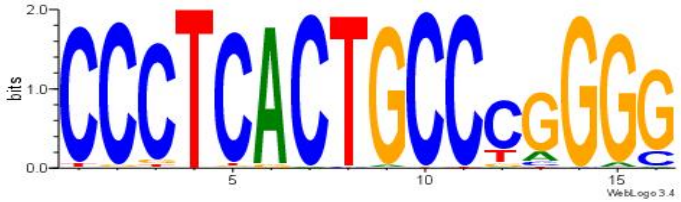

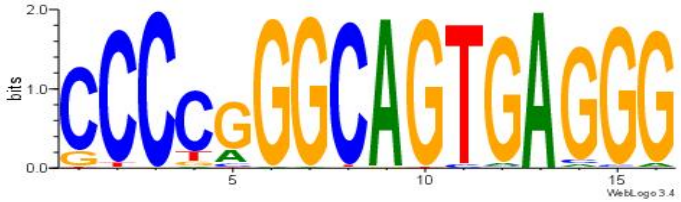

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0858764

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
----AGCAGTCTGAG-----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

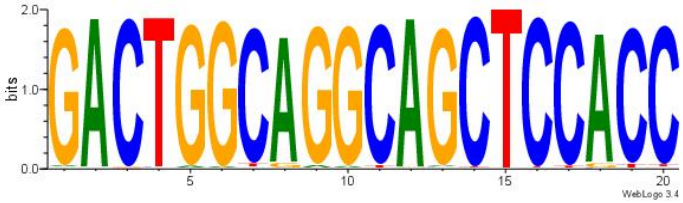

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

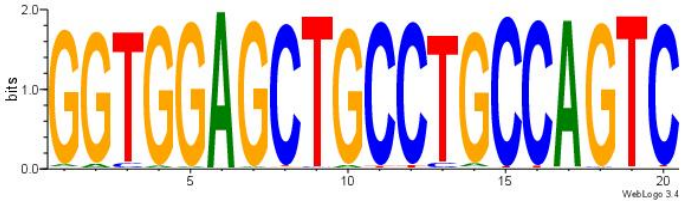

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0864021

Alignment:

```
ATGATCCAGCAATYCCACTH
-------AGCAGTCTGAG--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

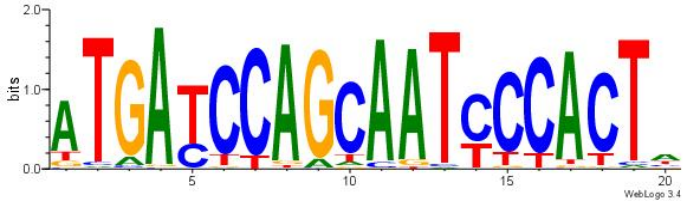

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

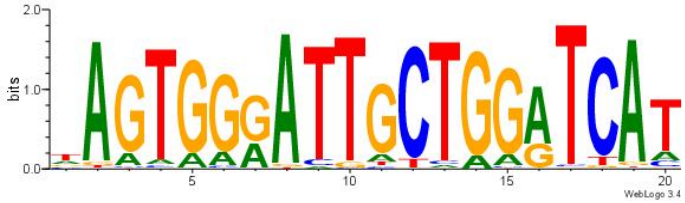

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0867978

Alignment:
CCGCTGCACTGTGGGAGCCC
----AGCAGTCTGAG-----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

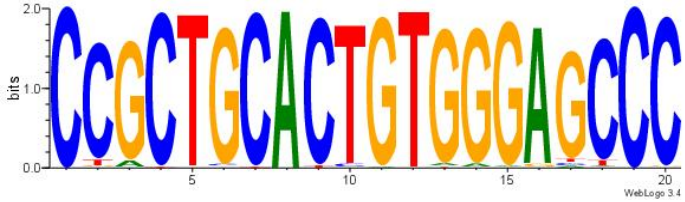

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

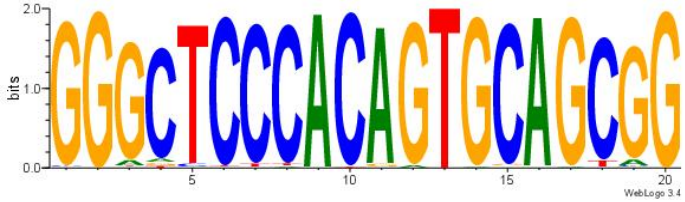

Dataset #: 1
Motif ID: 363
Motif name: Motif 363
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0871317

Alignment:
CAAGGTCTGATTGTW
----CTCAGACTGCT

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

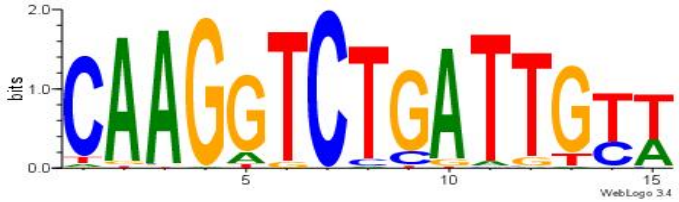

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0871534

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
AGCAGTCTGAG---------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

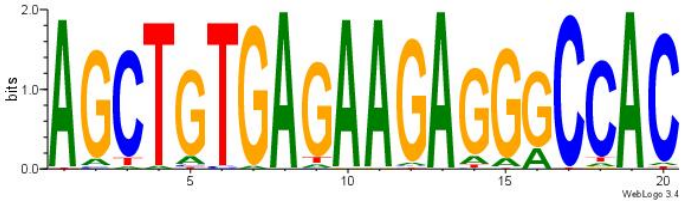

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

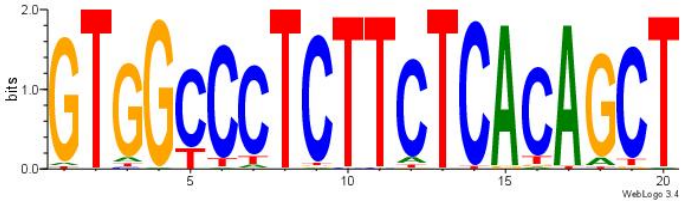

Dataset #: 1

Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0876263

Alignment:

```
CAGGCGGCTGGGAG
-AGCAGTCTGAG--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

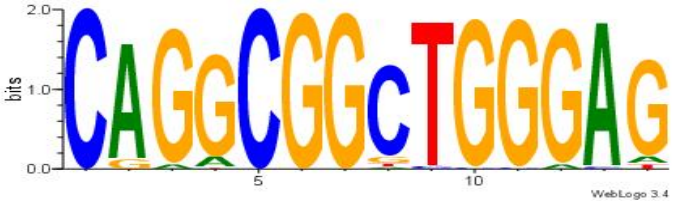

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

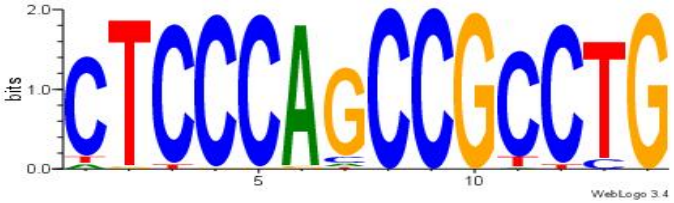

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0882272

Alignment:
AGGAGRCMCTCTGCCTGGC
--------CTCAGACTGCT

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

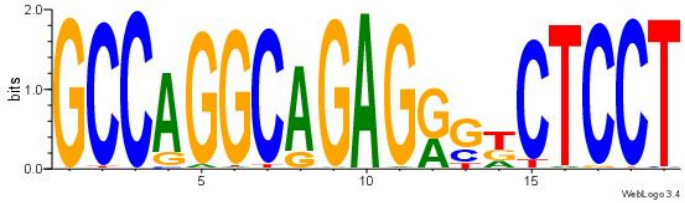

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

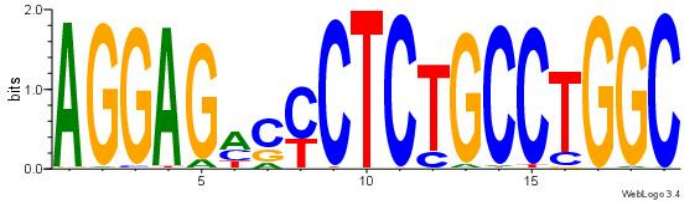

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0884653

Alignment:
VCCDCCTCCKCCTCCTC
-----CTCAGACTGCT-

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence:
VCCDCCTCCKCCTCCTC

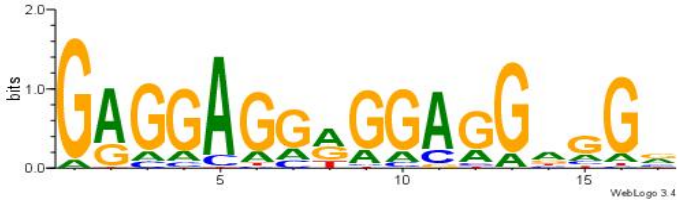

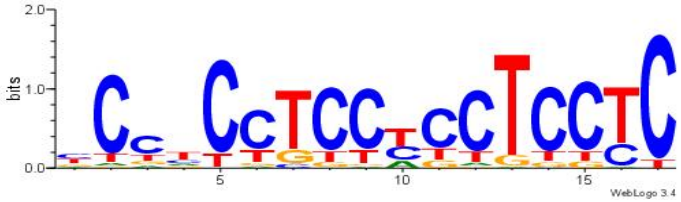

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0887189

Alignment:

```
TGCCCAGTCTGGAAAGTG
--AGCAGTCTGAG-----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

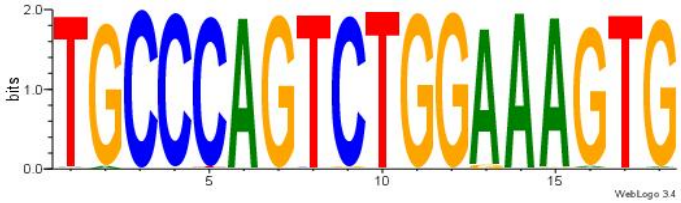

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

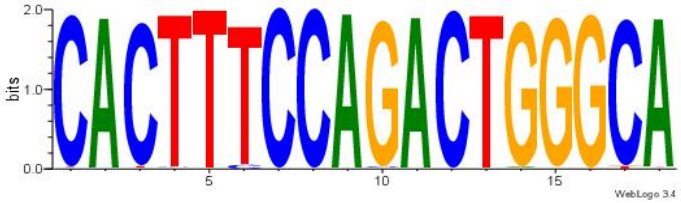

Dataset #: 1

Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0899772

Alignment:

```
CCTCCGTGGGCTCC
-CTCAGACTGCT--
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

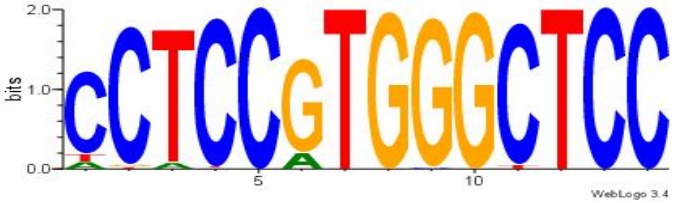

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

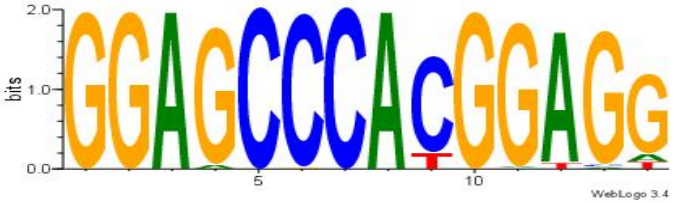

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.090135

Alignment:
CCAAGACYCCAGAC
CTCAGACTGCT---

Original motif Consensus sequence: CCAAGACYCCAGAC

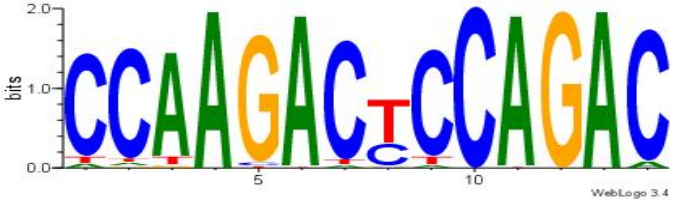

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

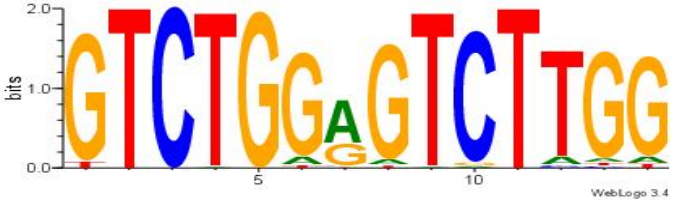

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0914327

Alignment:
ATCTCASAAATCACCACTA
--CTCAGACTGCT------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

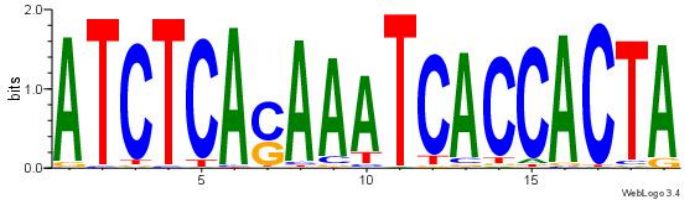

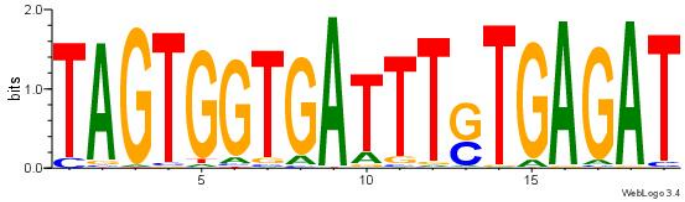

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0920815

Alignment:

```
CCTAGATTTCAGARGATGT
---AGCAGTCTGAG-----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

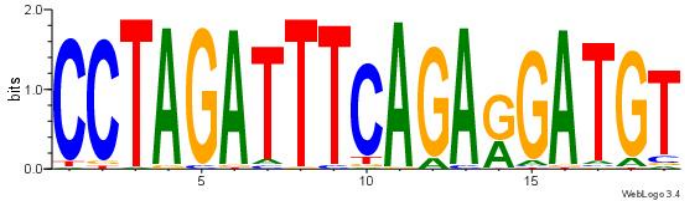

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

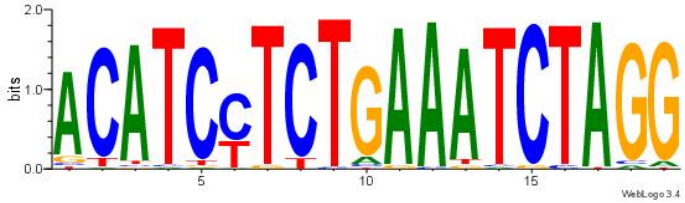

Dataset #: 1

Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0924605

Alignment:

```
CCTMACAATCATGG
-CTCAGACTGCT--
```

Original motif Consensus sequence: CCATGATTGTRAGG

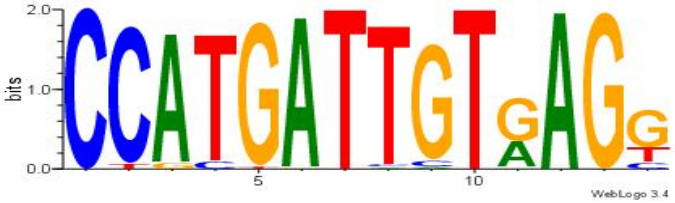

Reverse complement motif Consensus sequence: CCTMACAATCATG

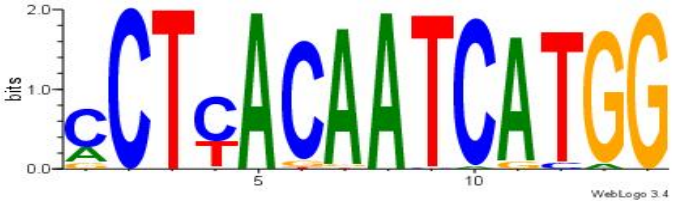

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.092528

Alignment:
CCTCCCAGCCGCCT
---CTCAGACTGCT

Original motif Consensus sequence: AGGCGGCTGGGAGG

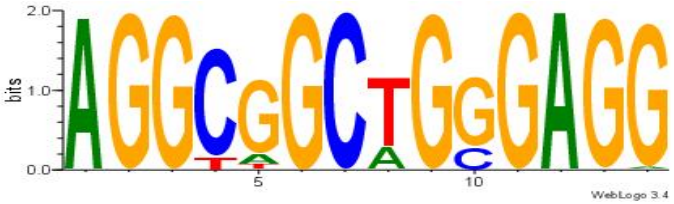

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0943265

Alignment:
CATTTCCAWCTGAGGTAC
---AGCAGTCTGAG----

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

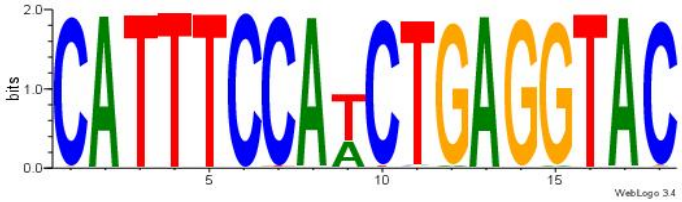

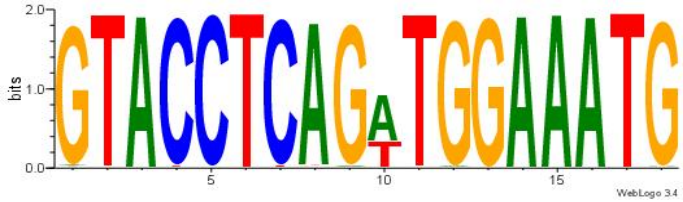

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0947685

Alignment:

```
CCTGTAATCCCAGC
-AGCAGTCTGAG--
```

Original motif Consensus sequence: GCTGGGATTACAGG

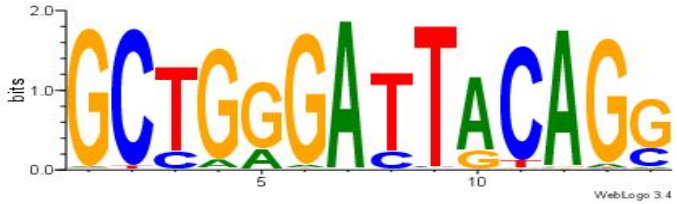

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	58

Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0948208

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-------AGCAGTCTGAG--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

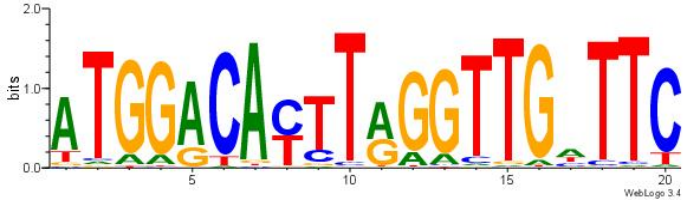

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

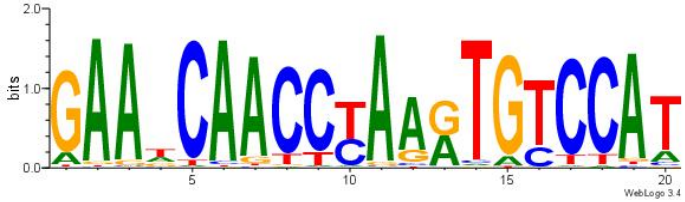

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0948551

Alignment:
TTGAGGAGGCAGTCTG
---AGCAGTCTGAG--

Original motif Consensus sequence: CAGACTGCCTCCTCAA

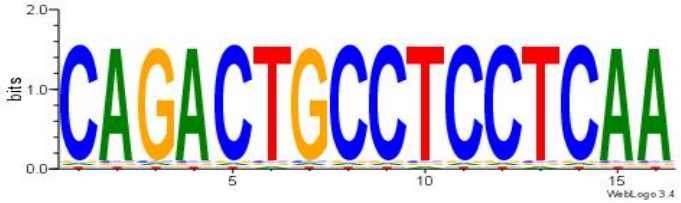

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

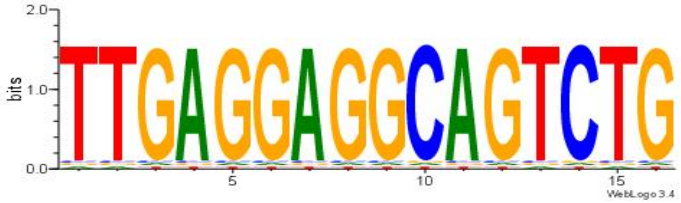

Dataset #:	1
Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0948551

Alignment:
CTGGGATTACA
CTCAGACTGCT

Original motif Consensus sequence: CTGGGATTACA

Reverse complement motif Consensus sequence: TGTAATCCCAG

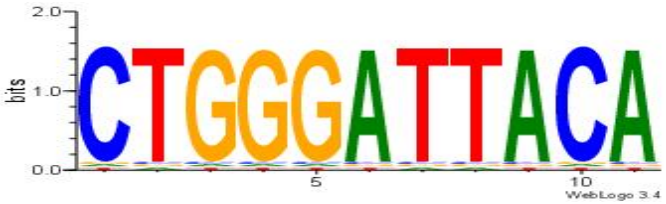

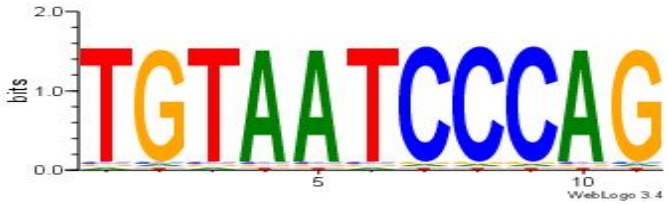

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.094906

Alignment:

```
CTGGGCRACAGAGYRAGACY
------AGCAGTCTGAG---
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

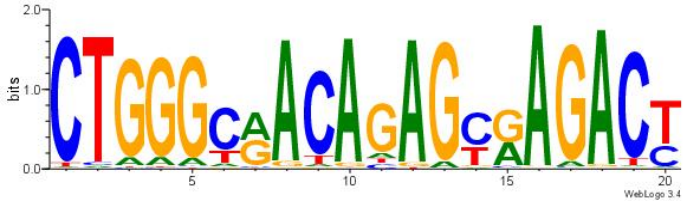

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

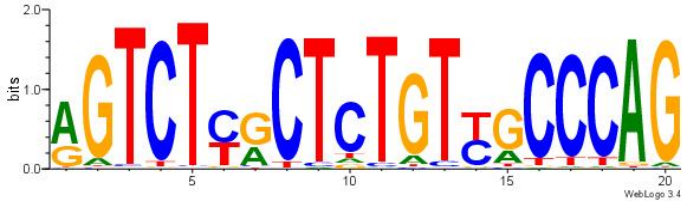

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0955306

Alignment:

```
AACAACASACACTGGGGCCT
-----CTCAGACTGCT----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

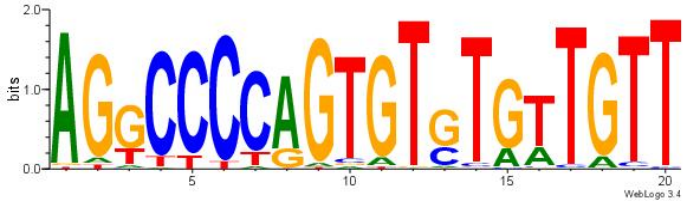

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

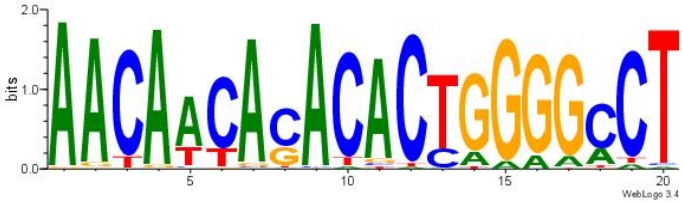

Dataset #: 1 Motif ID: 263 Motif name: Motif 263

Original motif Consensus sequence: CCCAGCTCTGCC

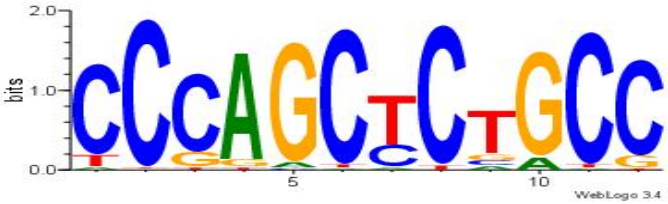

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Best Matches for Significant Motif ID 263 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0427579

Alignment:

```
GGCACTGCTGGGGGACCCAG
GGCAGAGCTGGG--------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

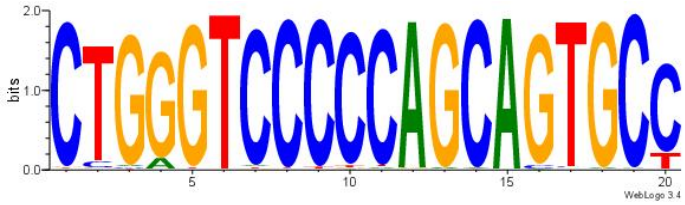

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

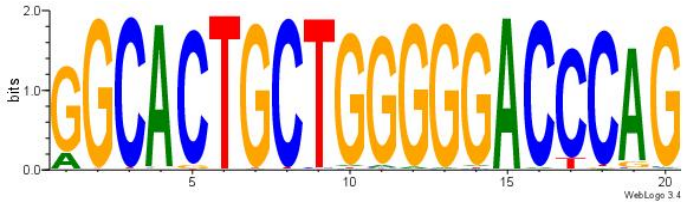

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0507335

Alignment:
GCCRGCCCTGCYGGCC
CCCAGCTCTGCC----

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

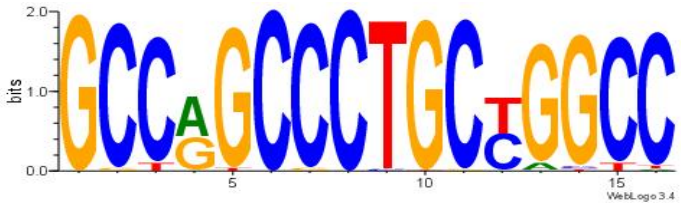

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

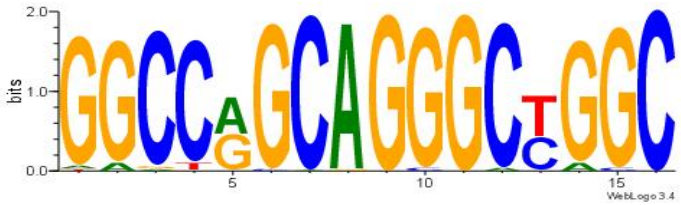

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0634235

Alignment:
CGAGCCCTGCCCCGCGG
----CCCAGCTCTGCC-

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

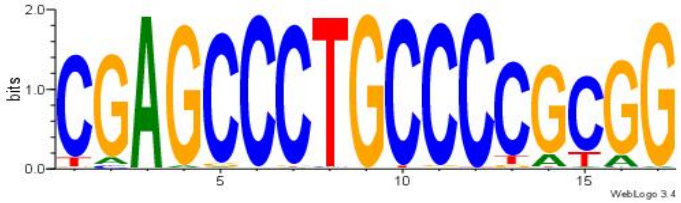

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

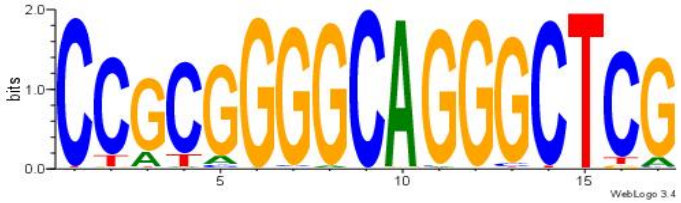

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0664844

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
--CCCAGCTCTGCC------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

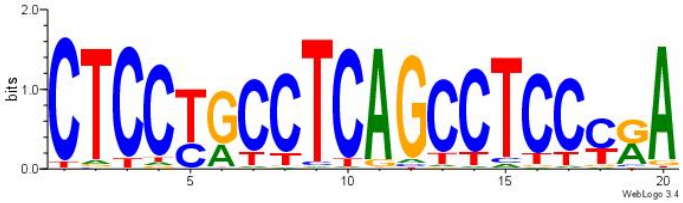

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

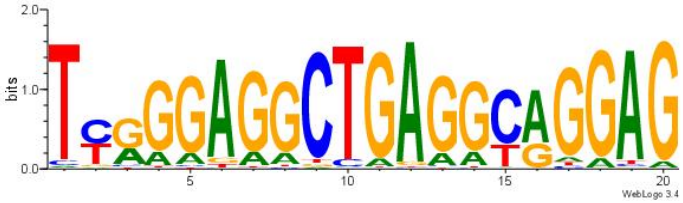

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0690886

Alignment:

```
GGSKGATCTGGCTG
GGCAGAGCTGGG--
```

Original motif Consensus sequence: CAGCCAGATCRSCC

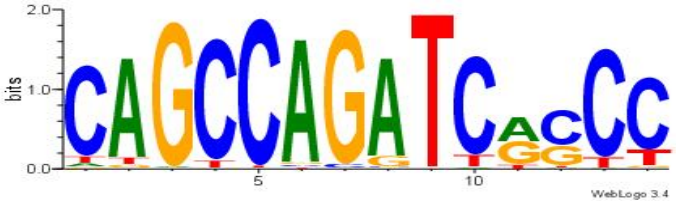

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

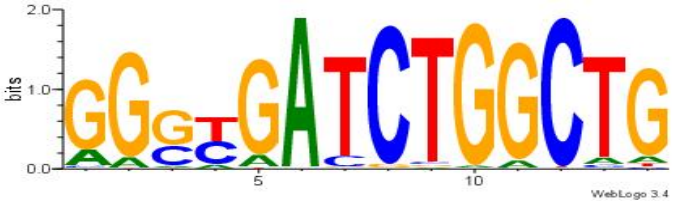

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0692871

Alignment:
CTCTGCCCGGCCGC
CCCAGCTCTGCC--

Original motif Consensus sequence: CTCTGCCCGGCCGC

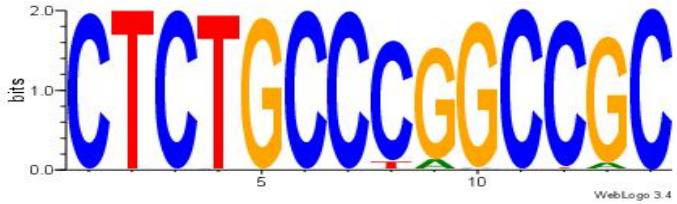

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

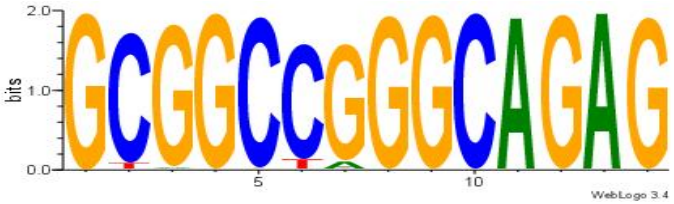

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0711801

Alignment:
AAGCAGGGCGAGGCATTGCC
-------GGCAGAGCTGGG-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

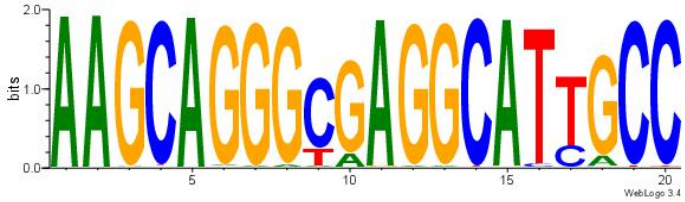

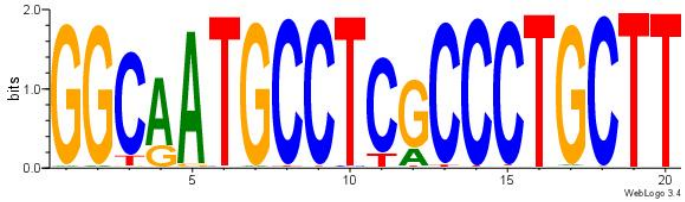

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0712488

Alignment:

```
AGACCAGCCTGGCCAAC
--CCCAGCTCTGCC---
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

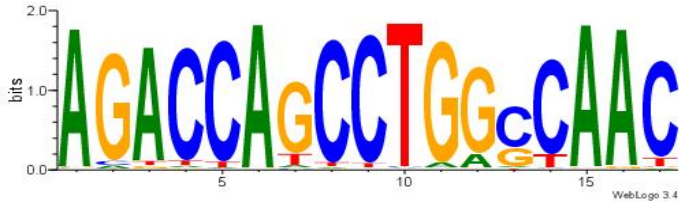

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

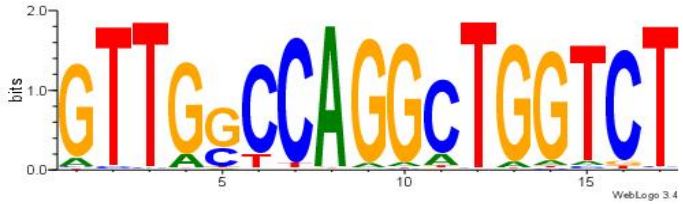

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0715967

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
GGCAGAGCTGGG--------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

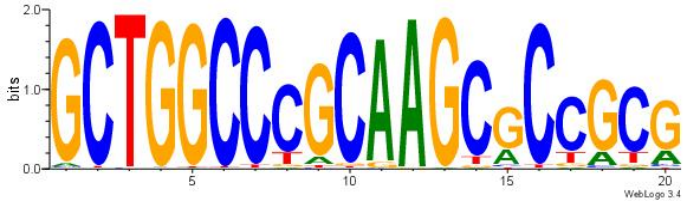

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

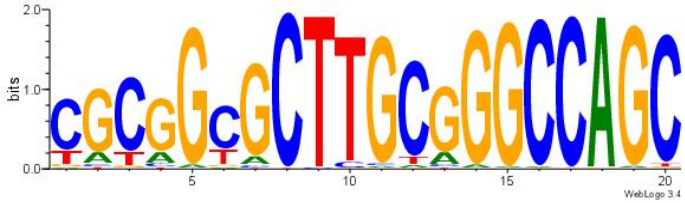

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0722193

Alignment:
TACACCCTCCGCAGCC
CCCAGCTCTGCC----

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

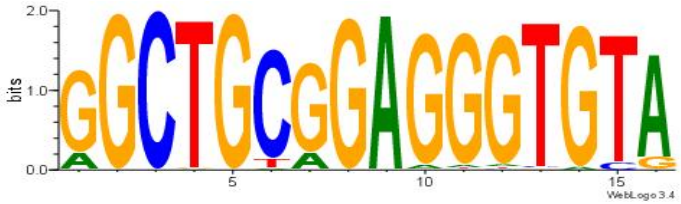

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

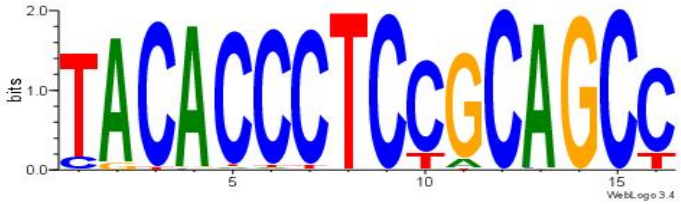

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0742541

Alignment:
ATGATCCAGCAATYCCACTH
----CCCAGCTCTGCC----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

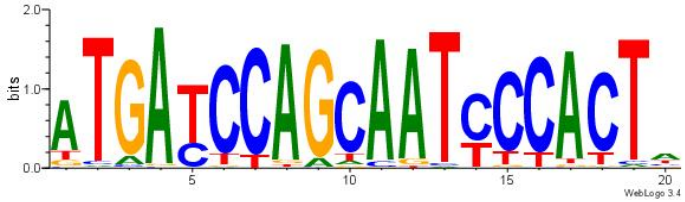

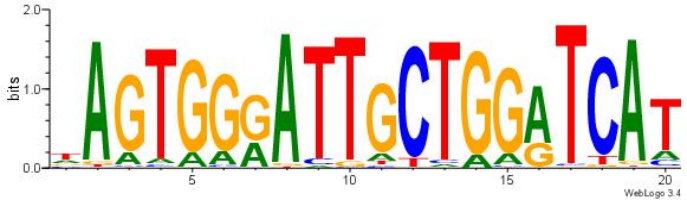

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0744937

Alignment:

```
ATTAGCYRGGCRTGGTGGC
----GGCAGAGCTGGG---
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

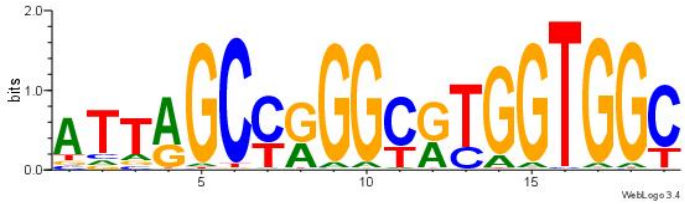

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

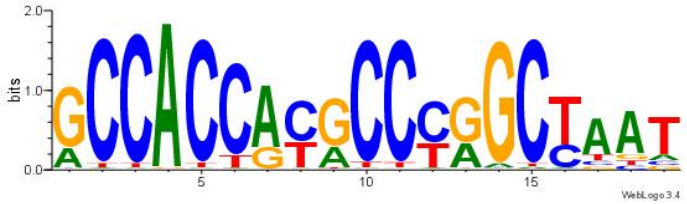

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0749639

Alignment:

```
GACTGGCAGGCAGCTCCACC
--------CCCAGCTCTGCC
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

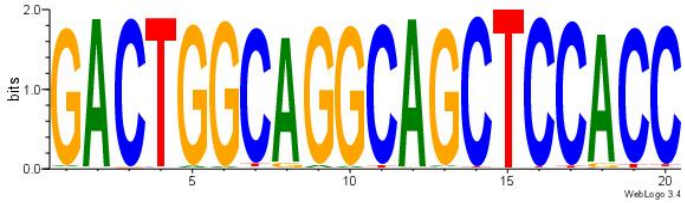

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

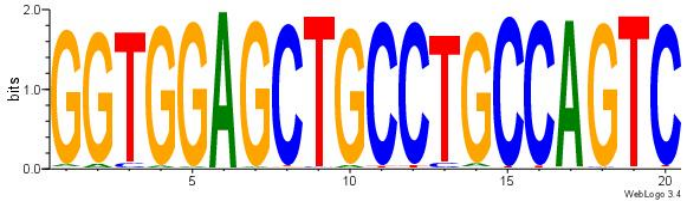

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0764367

Alignment:
CGGCGCTGMGCTCGATTTCT
---GGCAGAGCTGGG-----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

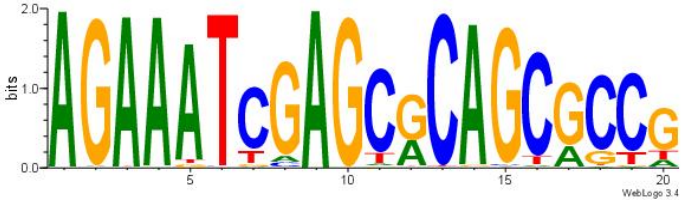

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

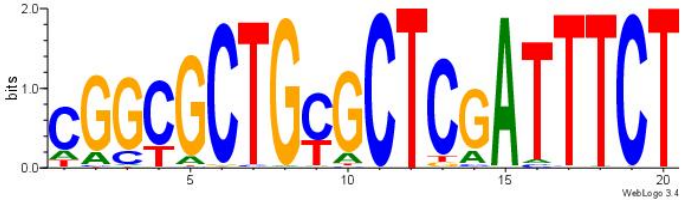

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0781518

Alignment:
GCTCCACCCAGTTCGAGCTT
------CCCAGCTCTGCC--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

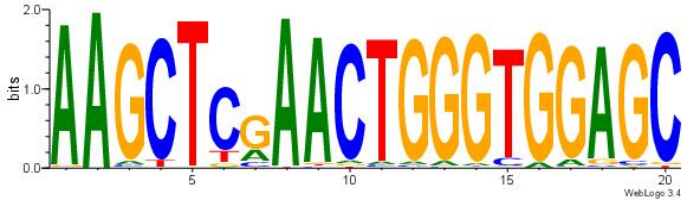

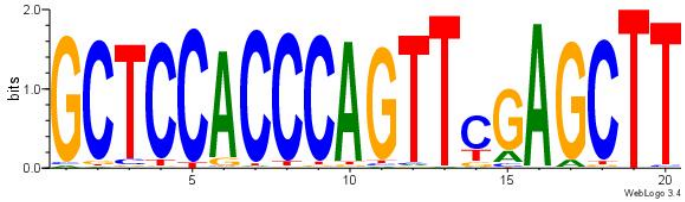

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0794757

Alignment:

```
TCCAAATGGGAGAAATTGGC
-GGCAGAGCTGGG-------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

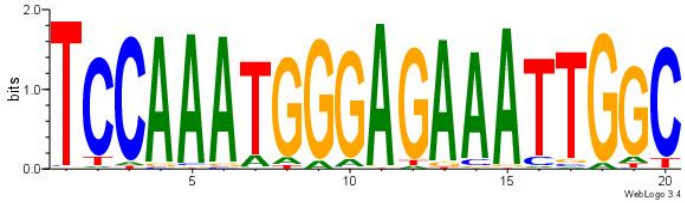

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

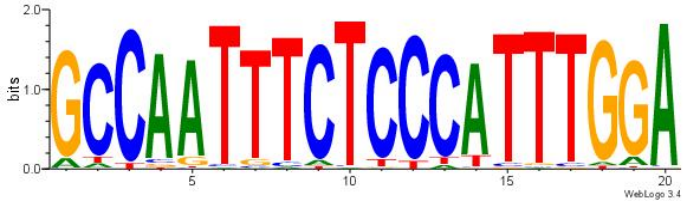

Dataset #: 1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0817058

Alignment:

```
MCCYGGCWSMGASGSTCCT
----GGCAGAGCTGGG---
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

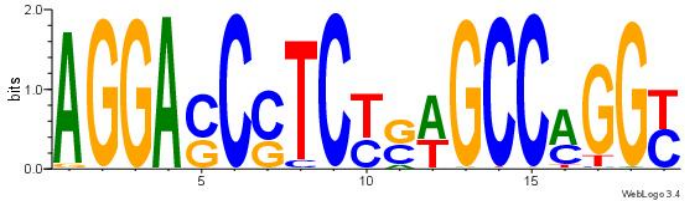

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

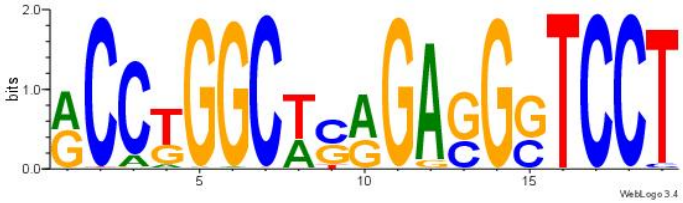

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0831055

Alignment:
AGTTCCGGGTGGGCGTGGG
GGCAGAGCTGGG-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

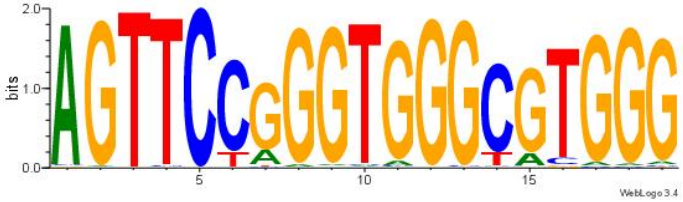

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

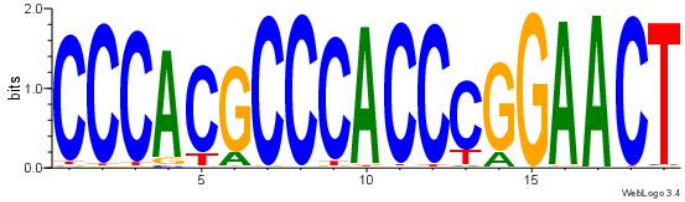

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0831497

Alignment:
CCTTGGCCAGCCCAGAAAG
-----CCCAGCTCTGCC--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

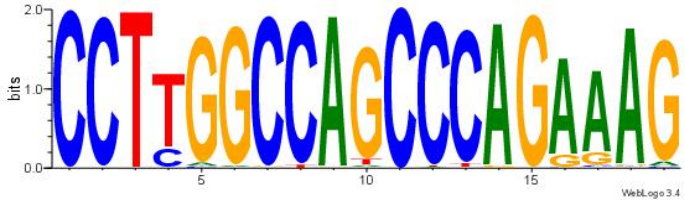

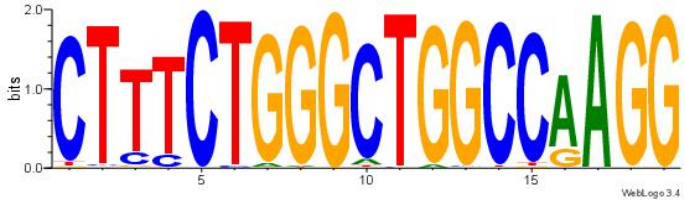

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0834809

Alignment:

```
GGCTGAGGAGTGCG
GGCAGAGCTGGG--
```

Original motif Consensus sequence: CGCACTCCTCAGCC

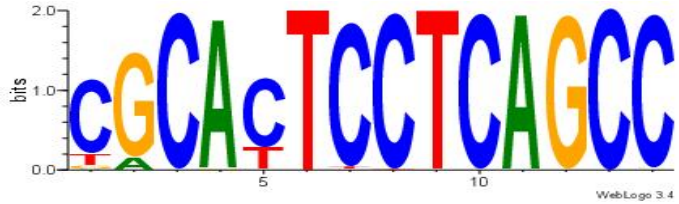

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

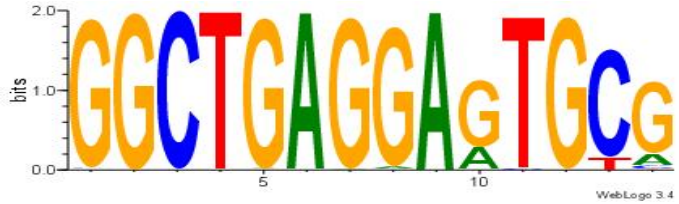

Dataset #:	1
Motif ID:	313

Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0851714

Alignment:

```
CTCCTGCCTCAGCY
--CCCAGCTCTGCC
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

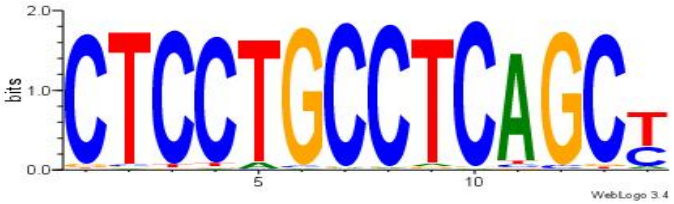

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

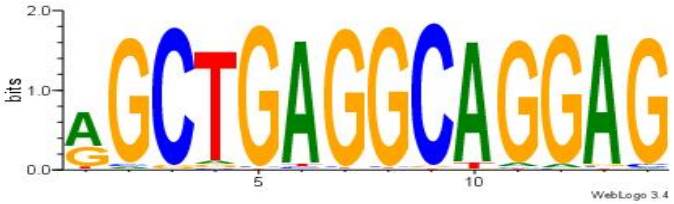

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0855029

Alignment:
TGCAGCCCCGGT
GGCAGAGCTGGG

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

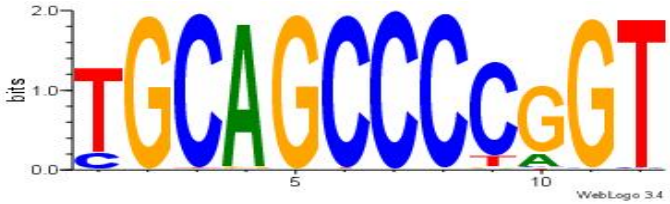

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0858374

Alignment:
GGGRSCACAGGAGCD
GGCAGAGCTGGG---

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

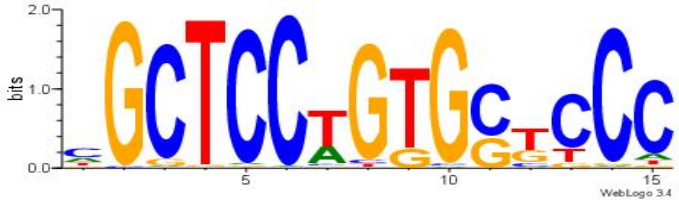

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.085862

Alignment:

```
CGTCGCTCACGCTGGGAGCT
----GGCAGAGCTGGG----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

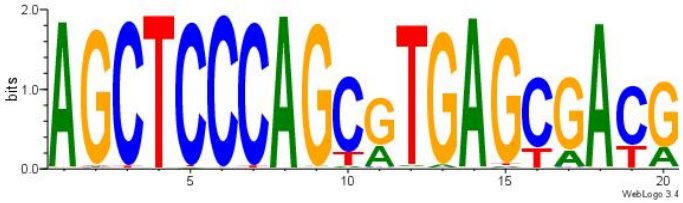

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

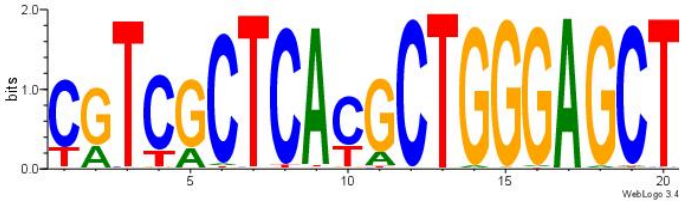

Dataset #:	1

Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.086672

Alignment:

```
GCGCACGGCGCGG
GGCAGAGCTGGG-
```

Original motif Consensus sequence: GCGCACGGCGCGG

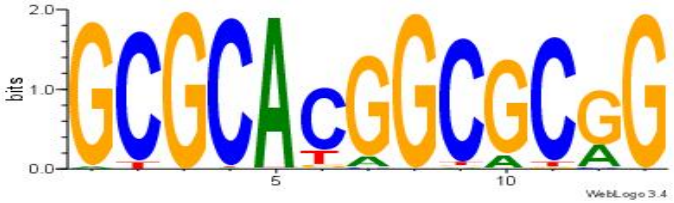

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

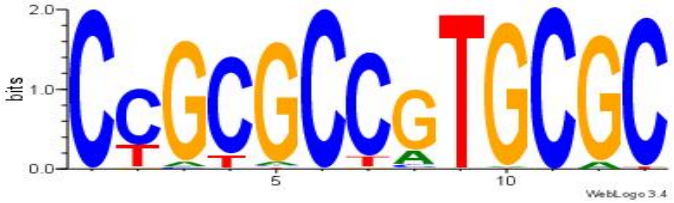

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0866981

Alignment:
GTGCCAGGCACTGTKCTARG
---CCCAGCTCTGCC-----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

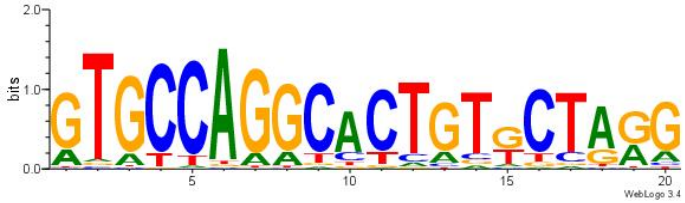

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

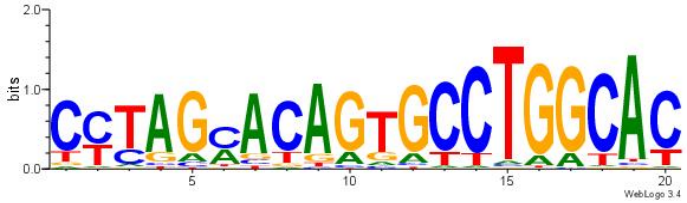

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0869282

Alignment:
ACTCAGCCCRCCTGCACCC
-CCCAGCTCTGCC------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

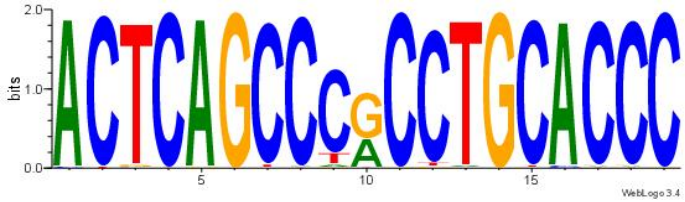

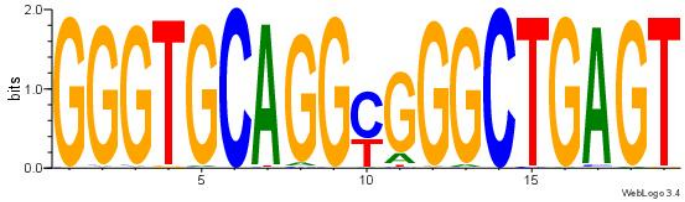

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0870231

Alignment:

```
AGGAGRCMCTCTGCCTGGC
----CCCAGCTCTGCC---
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

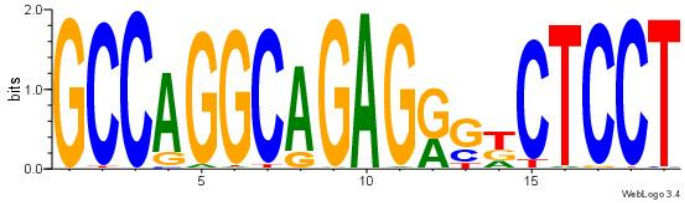

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

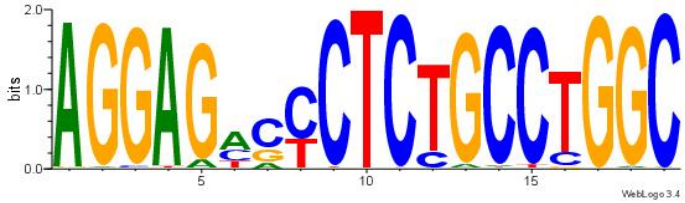

Dataset #:	1

Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0873293

Alignment:

```
CGCCCGGCCAGCCGC
-CCCAGCTCTGCC--
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

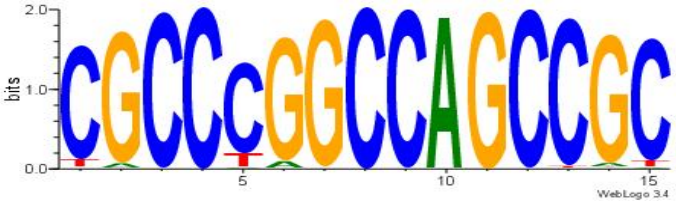

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

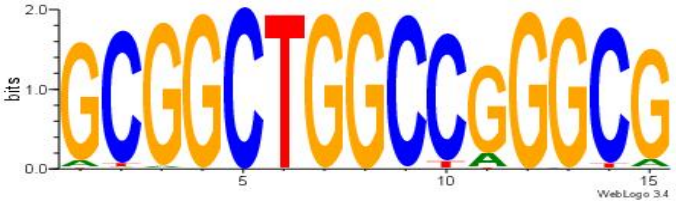

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0875851

Alignment:
GGGCTCCCACAGTGCAGCGG
-CCCAGCTCTGCC-------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

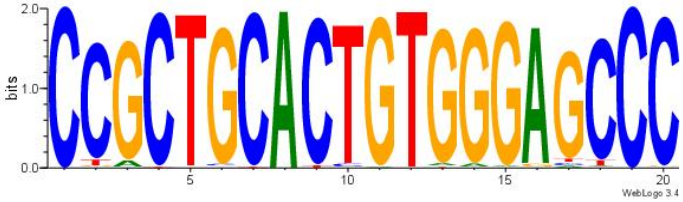

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

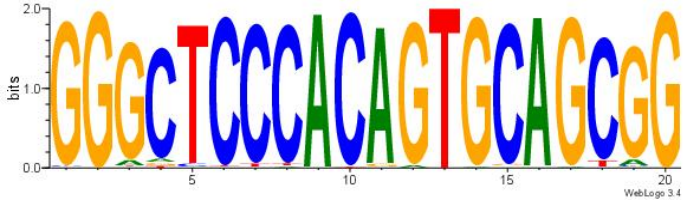

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0876331

Alignment:
GAGGAGGRGGAGGDGGV
GGCAGAGCTGGG-----

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

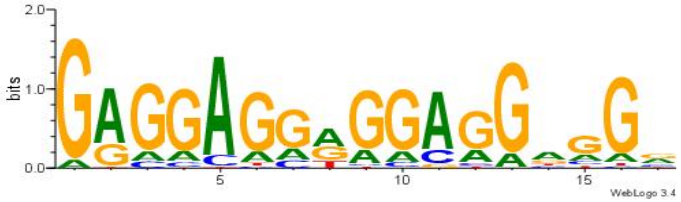

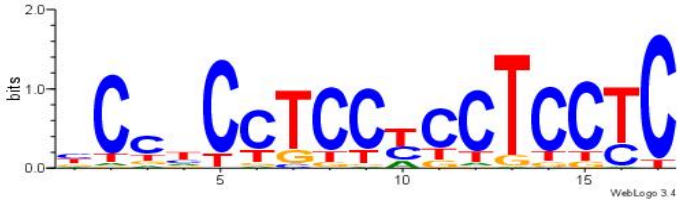

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0878206

Alignment:

```
GAATCCTGGGACAGCCTGT
----CCCAGCTCTGCC---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

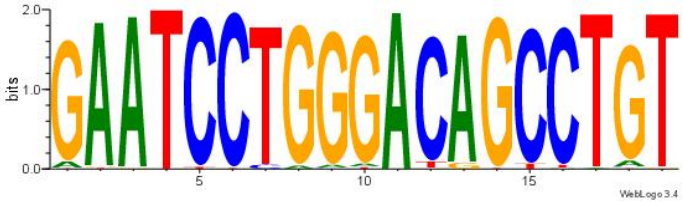

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

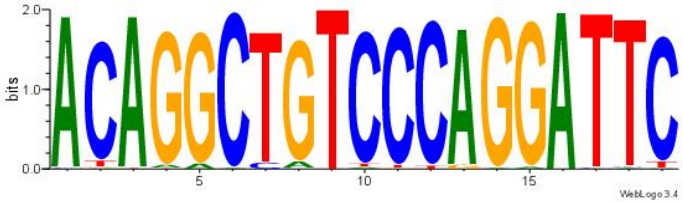

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0880969

Alignment:

```
GTAGACKGGAGCTGTTCCT
-CCCAGCTCTGCC------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

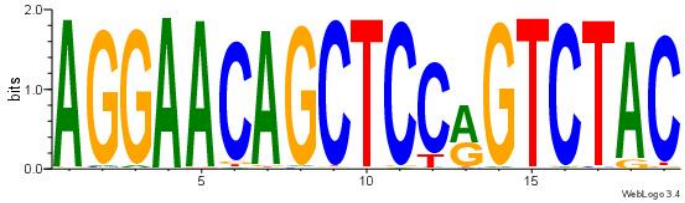

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

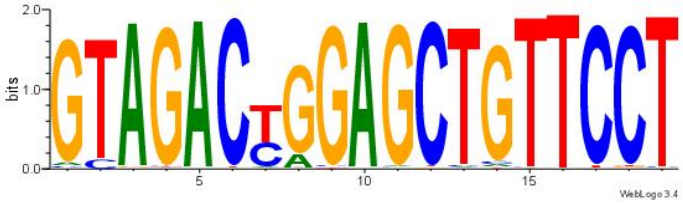

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0883086

Alignment:
CCACCACAGCTCAAGGAGGC
----CCCAGCTCTGCC----

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

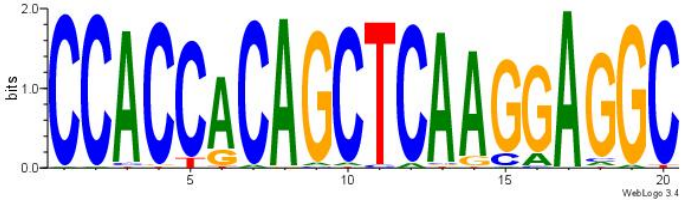

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

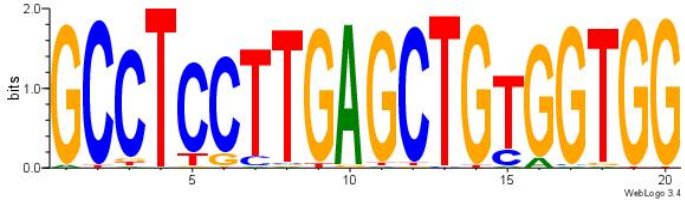

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0890736

Alignment:
ACTGTCTTCCACCTCCACAT
-------CCCAGCTCTGCC-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

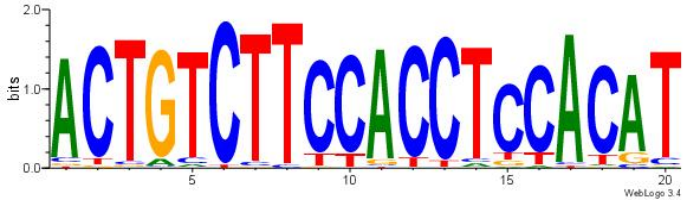

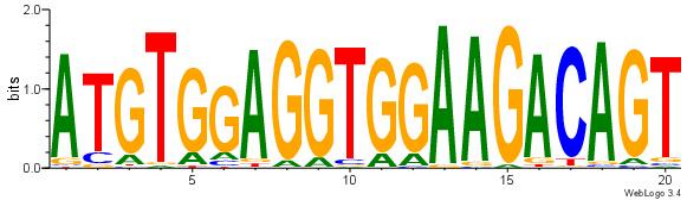

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0902407

Alignment:

```
TGGCTTCACCCAGTGGATCC
CCCAGCTCTGCC--------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

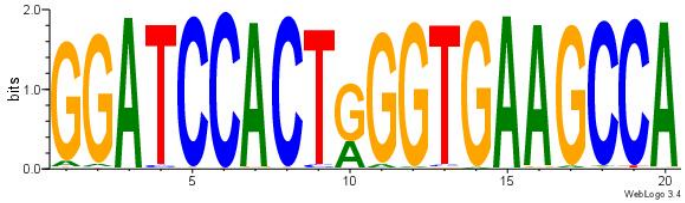

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

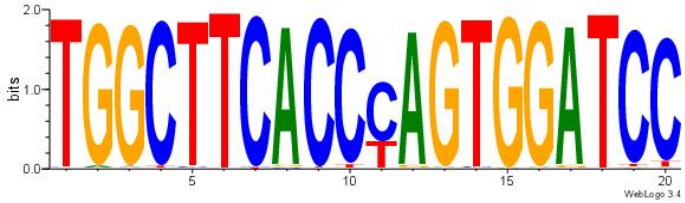

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0911722

Alignment:

```
GAAAAGCGCAGTATTMGGG
-GGCAGAGCTGGG------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

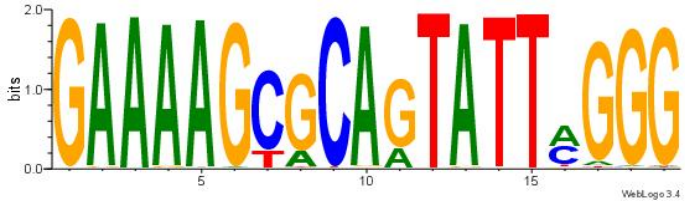

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

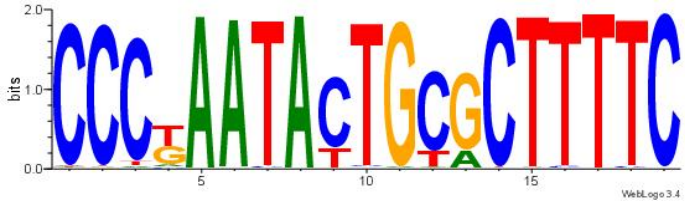

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0916527

Alignment:
GCAGGAGGTGAG
GGCAGAGCTGGG

Original motif Consensus sequence: CTCACCTCCTGC

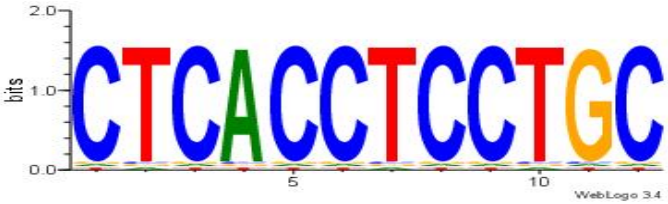

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

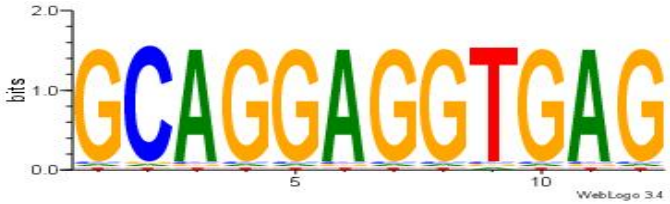

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0918366

Alignment:
CCCMKGGCACCCTCAGTCCT
CCCAGCTCTGCC--------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

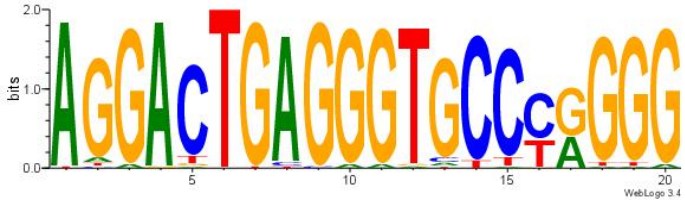

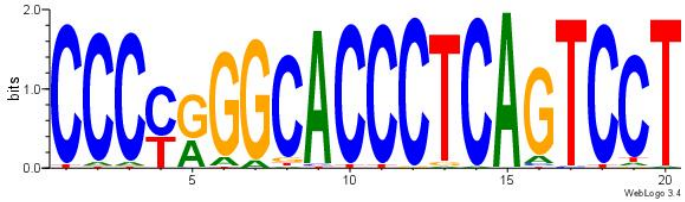

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0920631

Alignment:

```
GGGAGGAAGGGGACAC
----GGCAGAGCTGGG
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

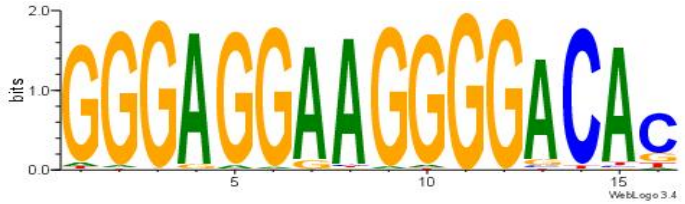

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

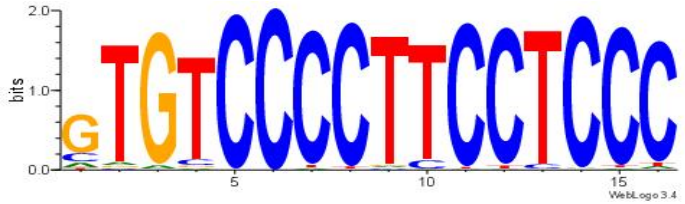

Dataset #:	1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0922583

Alignment:

```
KGGGCDGAGGGGCTCCT
--GGCAGAGCTGGG---
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

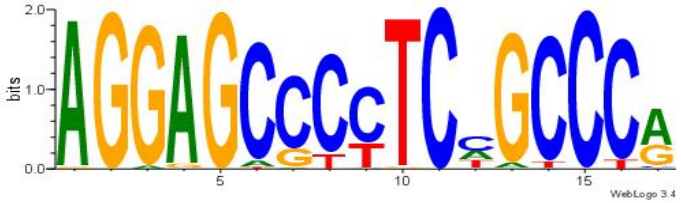

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0924181

Alignment:
TTGGAGGTTCTAGCAGGG
------GGCAGAGCTGGG

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

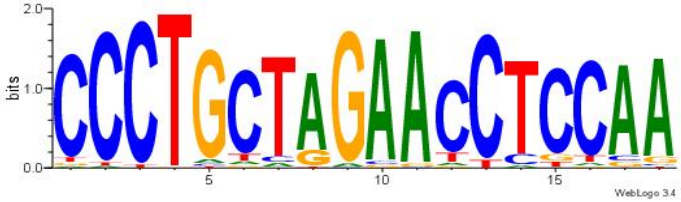

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

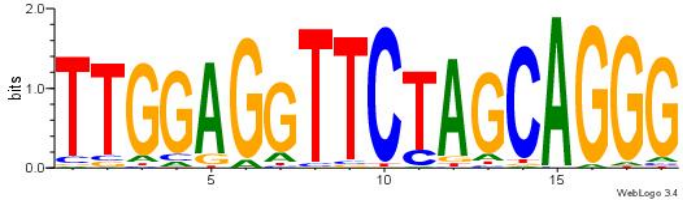

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0924585

Alignment:
KCCGGGCCTTAGCTGCCTTC
---CCCAGCTCTGCC-----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

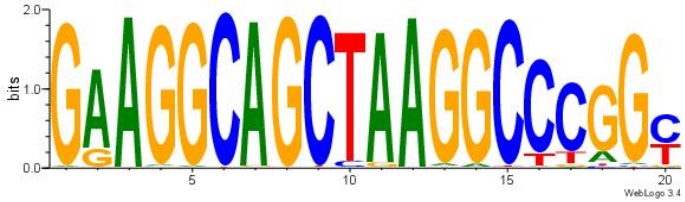

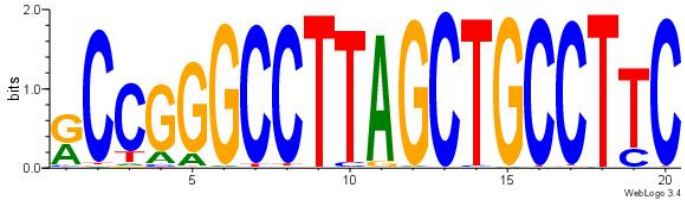

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0926144

Alignment:

```
AGGAGCGCCTCTKCCCGGC
---CCCAGCTCTGCC----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

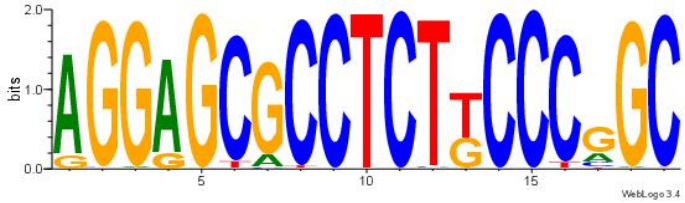

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

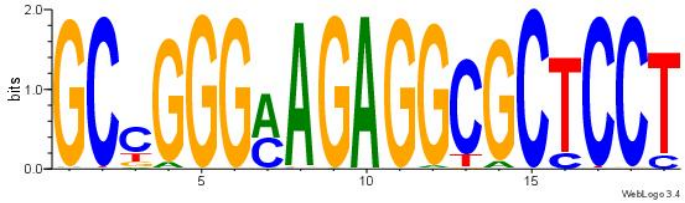

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0934781

Alignment:

```
CCTGCCATTGCYSAGGCTTG
CCCAGCTCTGCC--------
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

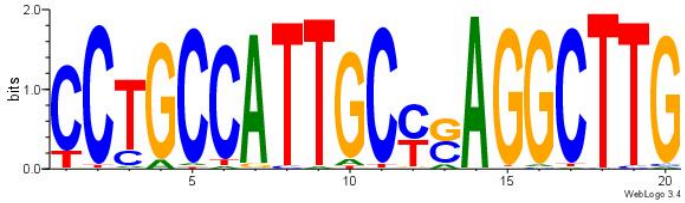

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

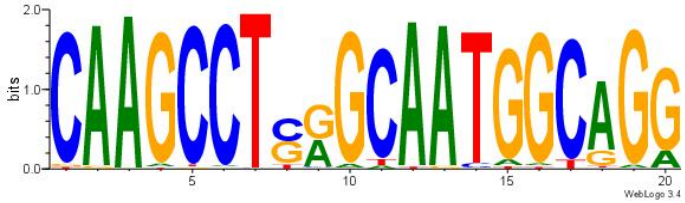

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12

Similarity score: 0.0938157

Alignment:
CCCGAAGCTGCRYRCTCGGT
CCCAGCTCTGCC--------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

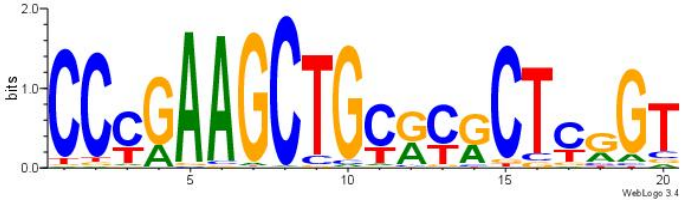

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

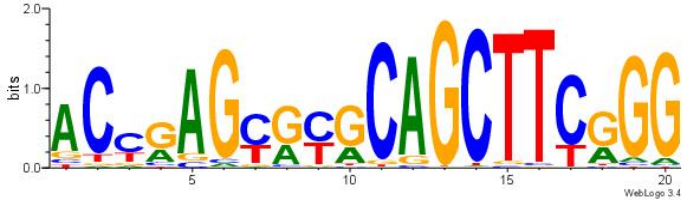

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0939014

Alignment:
GACATGAGCTGGCGCTTG
-GGCAGAGCTGGG-----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

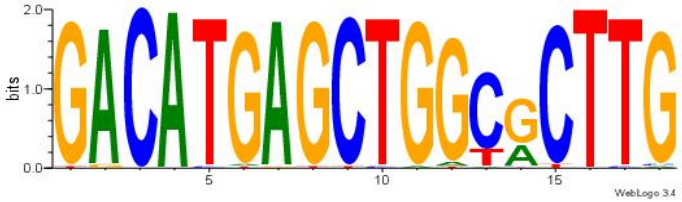

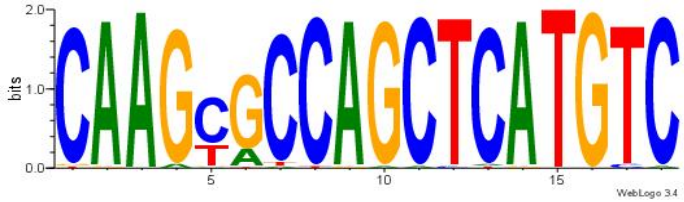

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0940175

Alignment:

```
ACCCYGTCTGGGAGGTG
-----GGCAGAGCTGGG
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

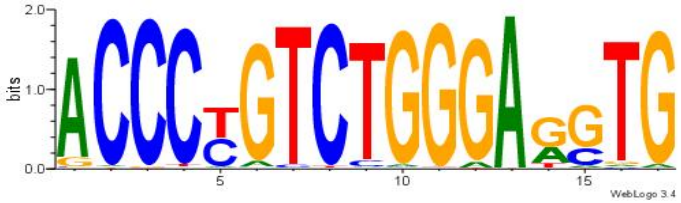

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

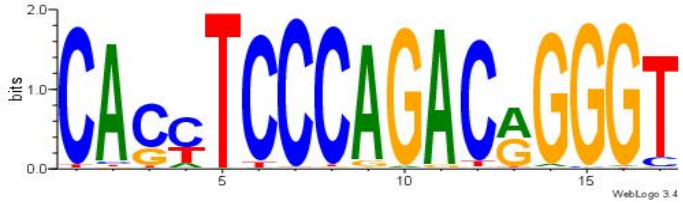

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0940981

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CCCAGCTCTGCC---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

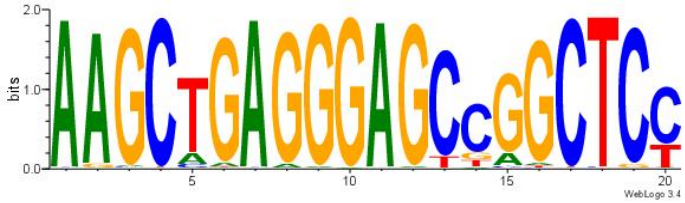

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

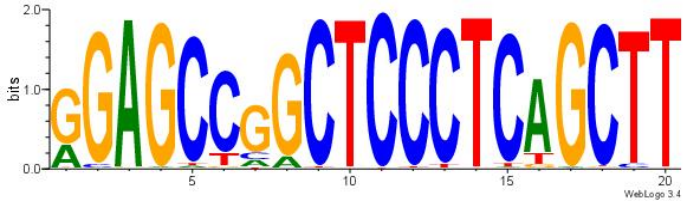

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.0945901

Alignment:
AATCAACCCTGGYRATCAAT
-CCCAGCTCTGCC-------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

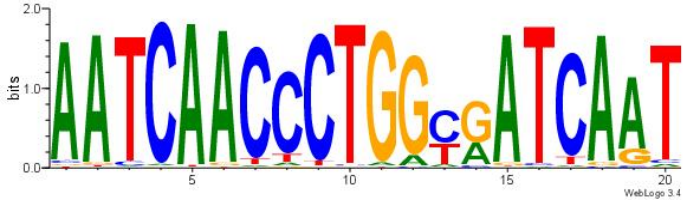

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

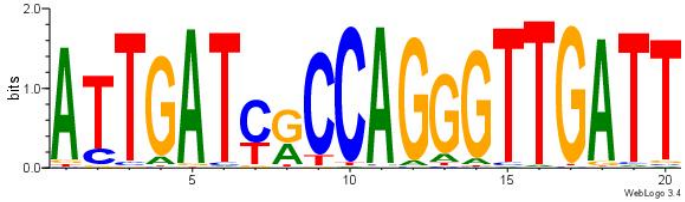

Dataset #: 1 Motif ID: 156 Motif name: Motif 156

Original motif Consensus sequence: CACTTCCCAGAC

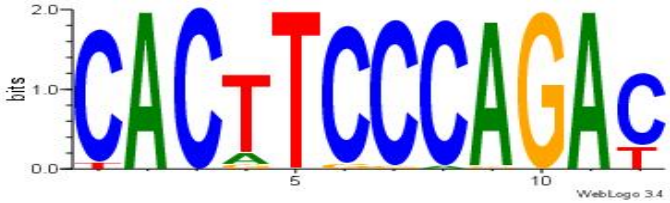

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

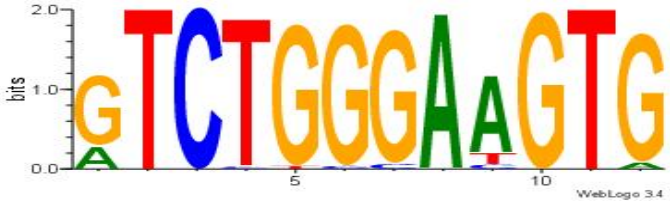

Best Matches for Significant Motif ID 156 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.00564821

Alignment:

```
CACTTCCCAGACGGGGCG
CACTTCCCAGAC------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

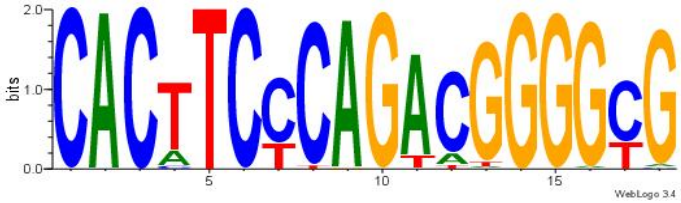

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

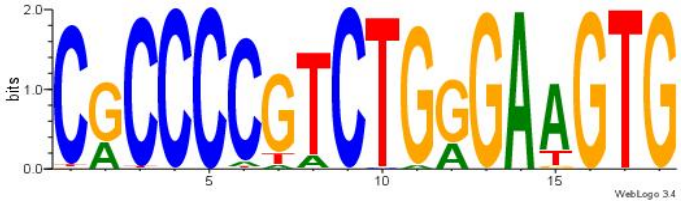

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0183065

Alignment:

```
CACCTCCCAGACMGGGT
-----CACTTCCCAGAC
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

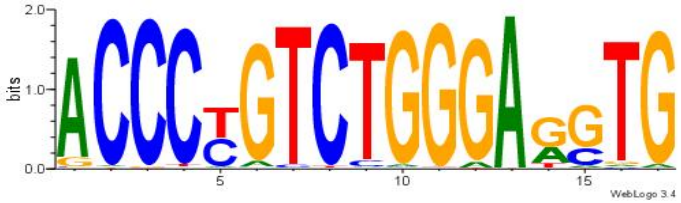

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

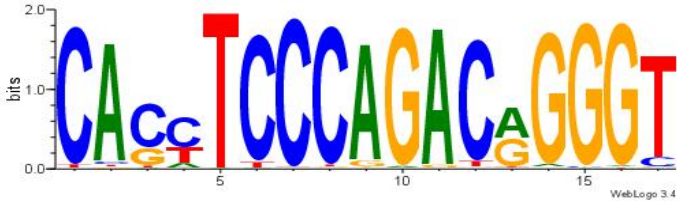

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0205412

Alignment:

```
TGCCCAGTCTGGAAAGTG
GTCTGGGAAGTG------
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

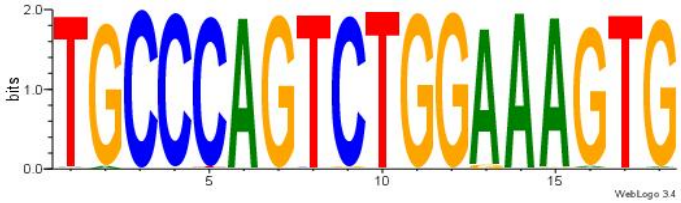

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

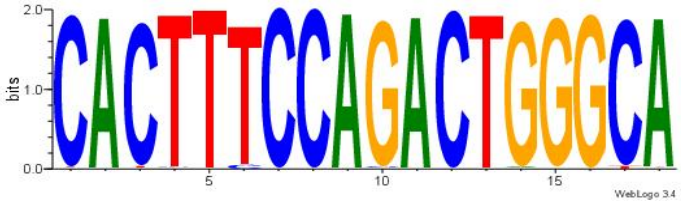

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0315299

Alignment:

```
CACTTCCTAGATGG
CACTTCCCAGAC--
```

Original motif Consensus sequence: CACTTCCTAGATGG

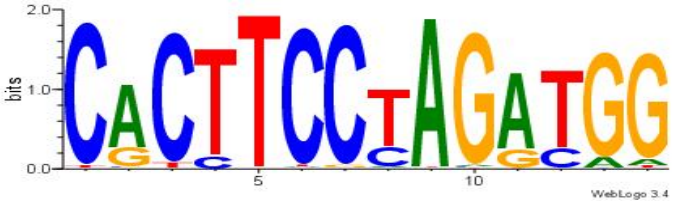

Reverse complement motif Consensus sequence: CCATCTAGGAAGTG

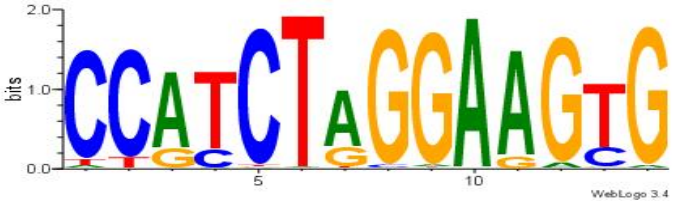

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0670258

Alignment:
CGCACTCCTCAGCC
--CACTTCCCAGAC

Original motif Consensus sequence: CGCACTCCTCAGCC

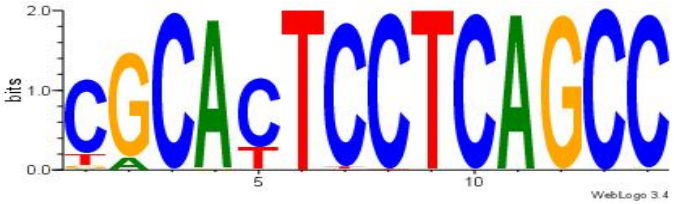

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

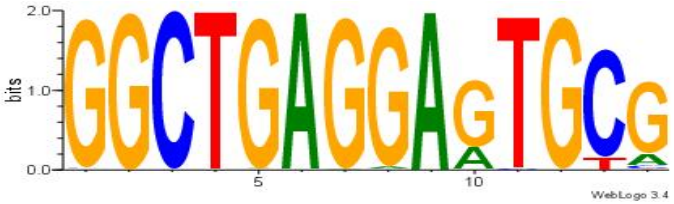

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0699718

Alignment:
CATTCTGGGGTCTGGAGGAY
--GTCTGGGAAGTG------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

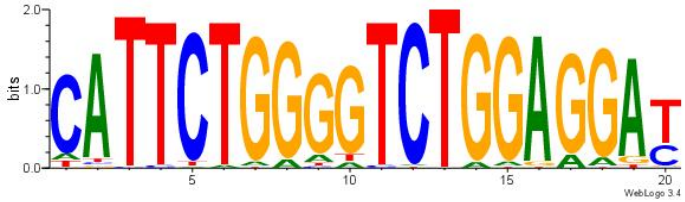

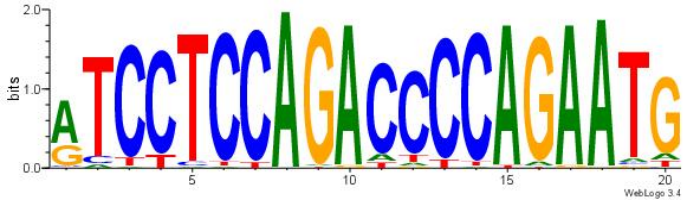

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0712206

Alignment:

```
GAAAGGGAACTCCCTGACCC
------CACTTCCCAGAC--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

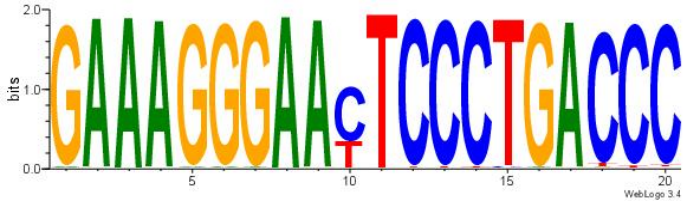

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

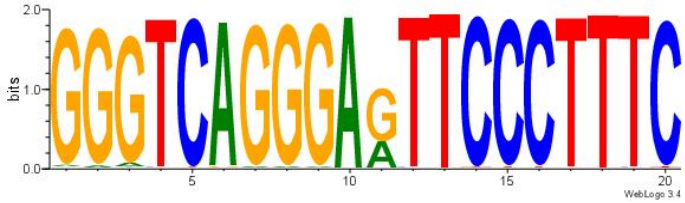

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0740539

Alignment:

```
CTTGCGCTTCCCRRGTGA
----CACTTCCCAGAC--
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

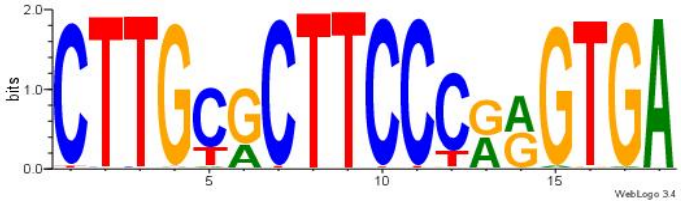

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

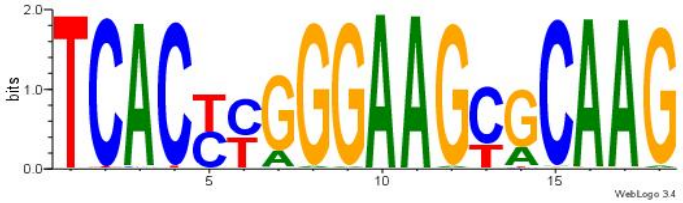

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0746148

Alignment:
GCTTCTGGTGAGGGC
--GTCTGGGAAGTG-

Original motif Consensus sequence: GCCCTCACCAGAAGC

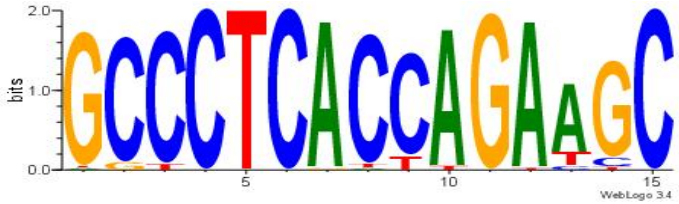

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

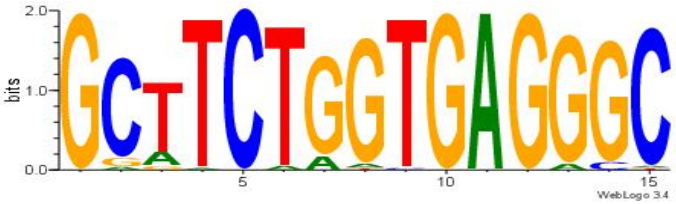

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0751897

Alignment:
TCCCTCCCGGACGGGGYGGC
CACTTCCCAGAC--------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

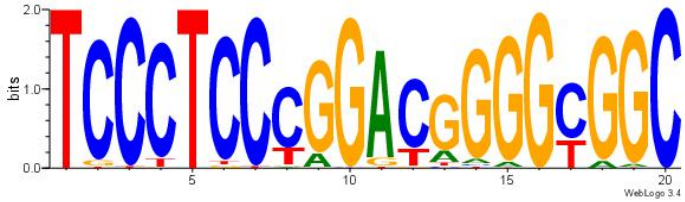

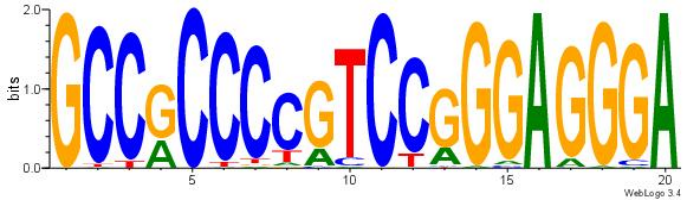

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0761795

Alignment:

```
CCCTCACTGCCCGGGG
----CACTTCCCAGAC
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

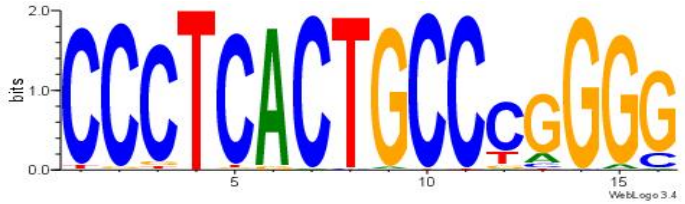

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

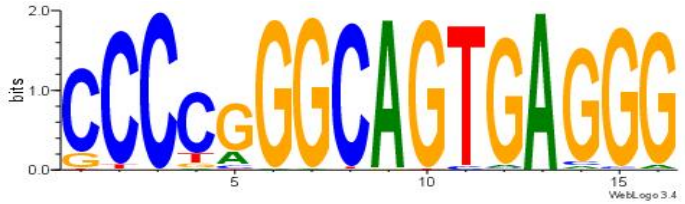

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.076813

Alignment:

```
ACACATCACAAAGCAGTTTC
-CACTTCCCAGAC-------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

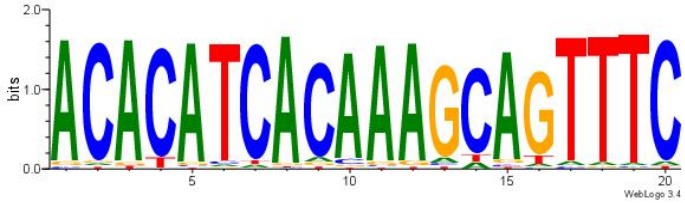

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

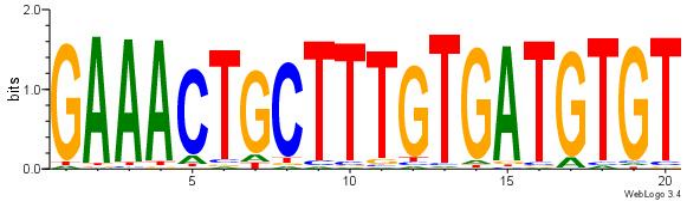

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0777048

Alignment:
GGCACTCCCTAGTG
CACTTCCCAGAC--

Original motif Consensus sequence: CACTAGGGAGTGCC

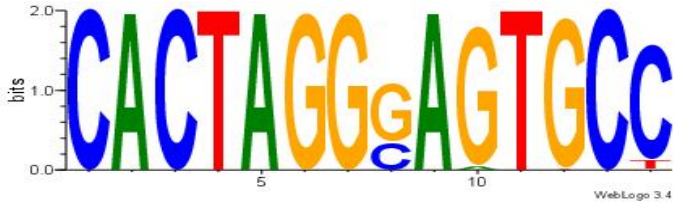

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

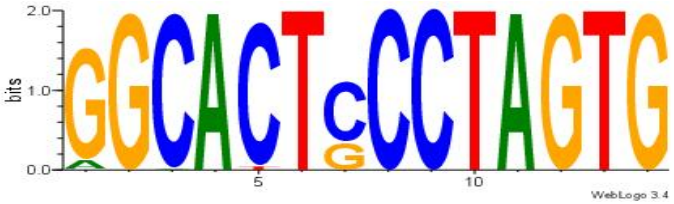

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0782419

Alignment:
TTMGTCCCAGAGGGGCACC
CACTTCCCAGAC-------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

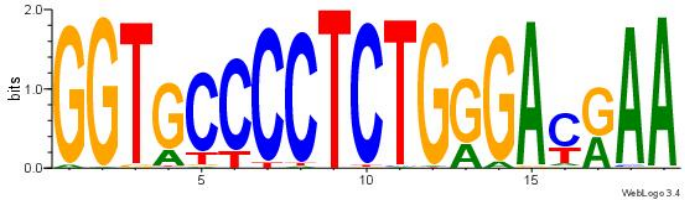

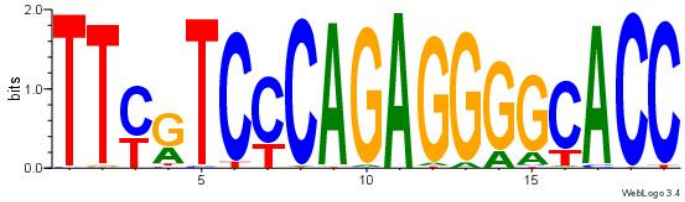

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0791381

Alignment:

```
GTGGCCCTCTTCTCACAGCT
------CACTTCCCAGAC--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

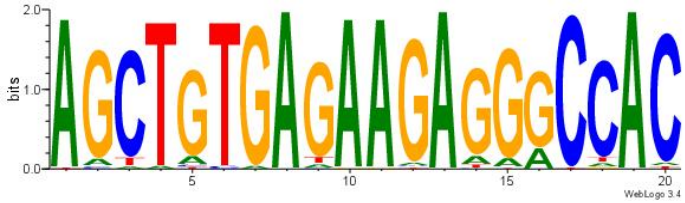

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

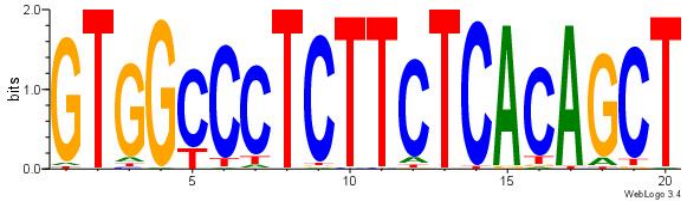

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0801718

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-----CACTTCCCAGAC---
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

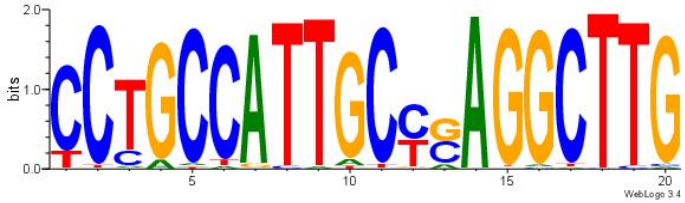

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

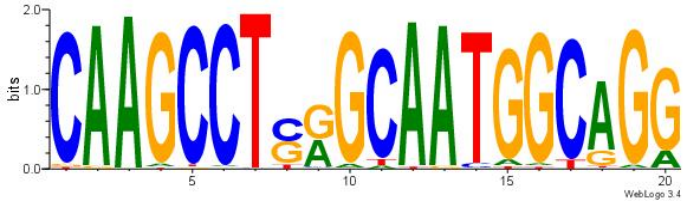

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0817521

Alignment:
CTCTGCCCGGCCGC
CACTTCCCAGAC--

Original motif Consensus sequence: CTCTGCCCGGCCGC

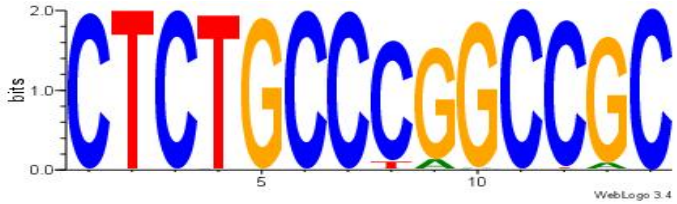

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

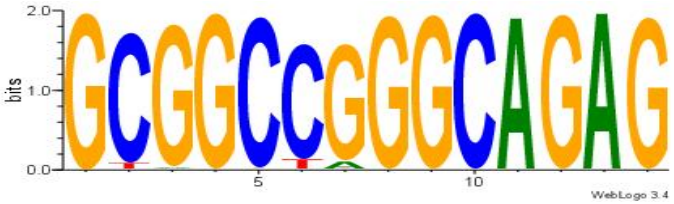

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0831072

Alignment:
GCTGCARTCTCGGCACTTT
------GTCTGGGAAGTG-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

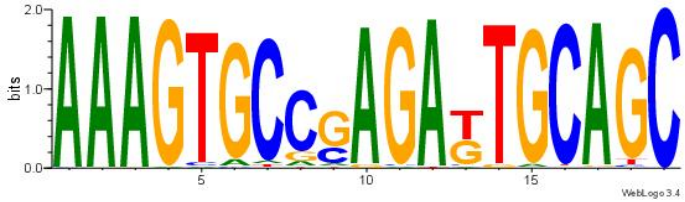

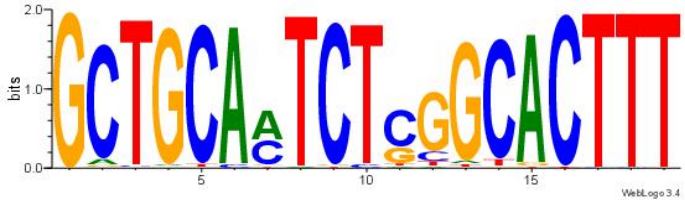

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0840136

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
------GTCTGGGAAGTG--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

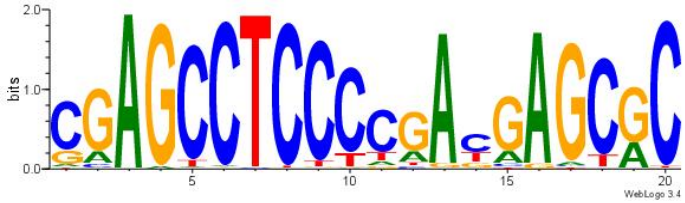

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

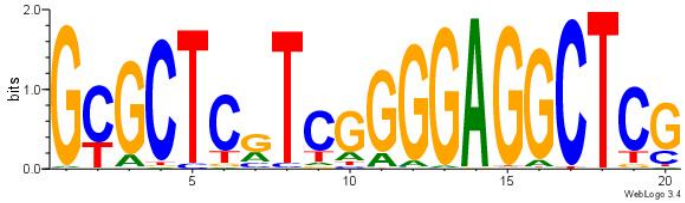

Dataset #:	1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0847192

Alignment:

```
GGCTGCGGAGGGTGTA
----GTCTGGGAAGTG
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

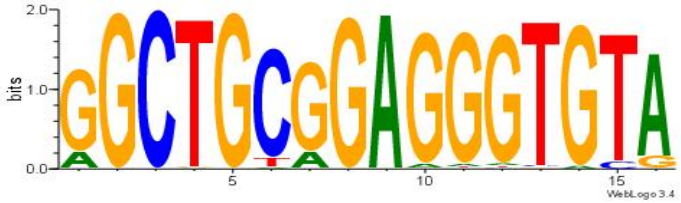

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

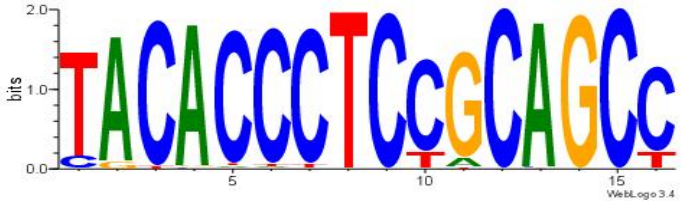

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0847387

Alignment:
AAATTACCCAGTCTCAGGTA
-CACTTCCCAGAC-------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

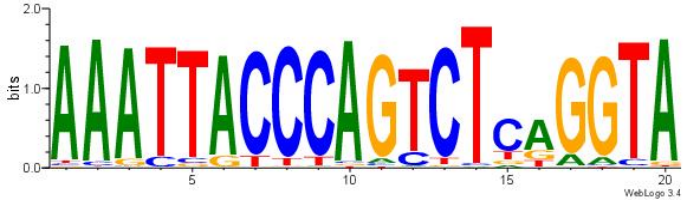

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

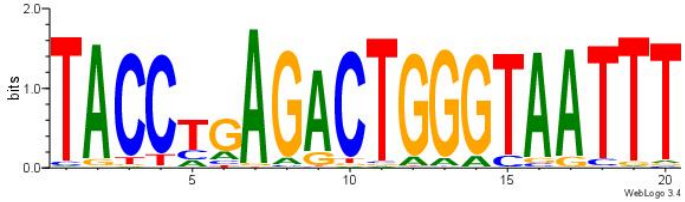

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0863611

Alignment:
CTTTCTGGGCTGGCCAAGG
--GTCTGGGAAGTG-----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

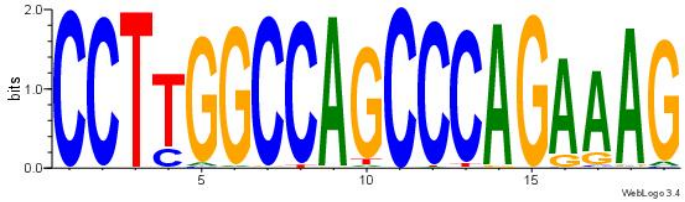

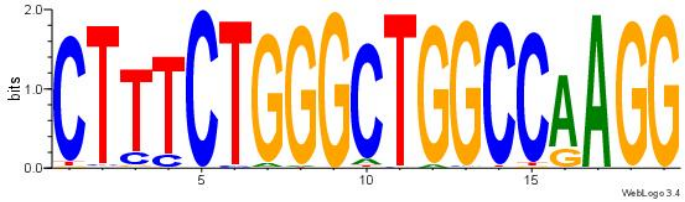

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.086663

Alignment:

```
ACACCTATTCGCACAC
----CACTTCCCAGAC
```

Original motif Consensus sequence: ACACCTATTCGCACAC

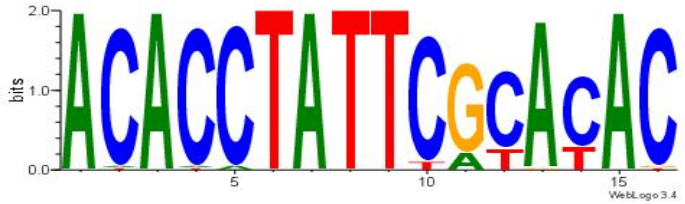

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

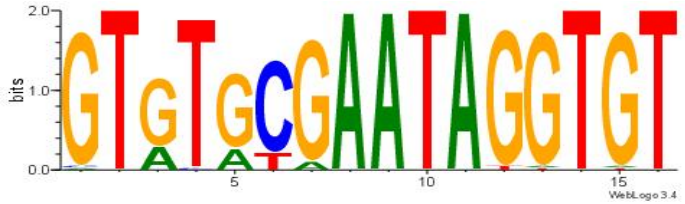

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0879861

Alignment:

```
CCAAGACYCCAGAC
--CACTTCCCAGAC
```

Original motif Consensus sequence: CCAAGACYCCAGAC

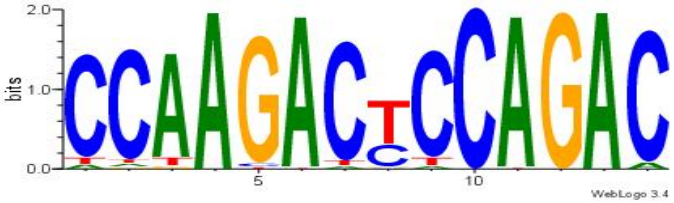

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

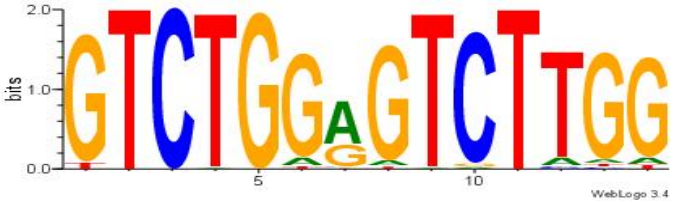

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0893451

Alignment:
GTGTCKGGAGTTTGTTCCTT
--GTCTGGGAAGTG------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

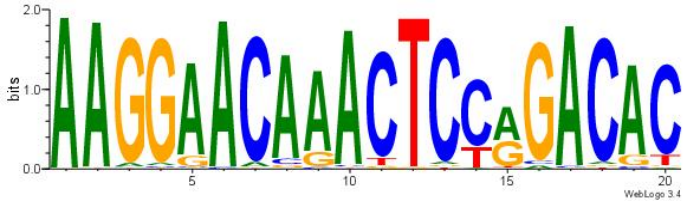

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

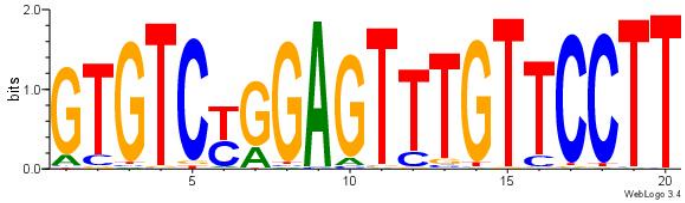

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0899651

Alignment:
GTGGGTGCAGTGCA
GTCTGGGAAGTG--

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

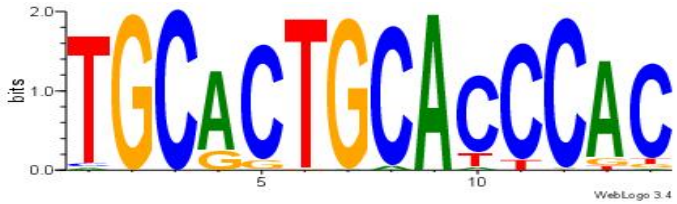

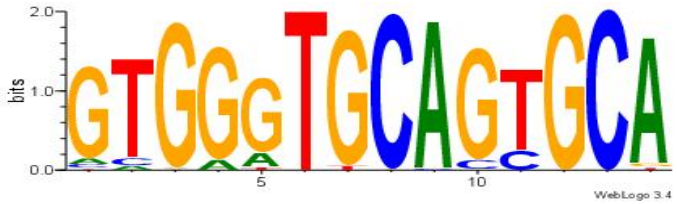

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0900729

Alignment:

```
TTTTATAGGATTTGGG
--GTCTGGGAAGTG--
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

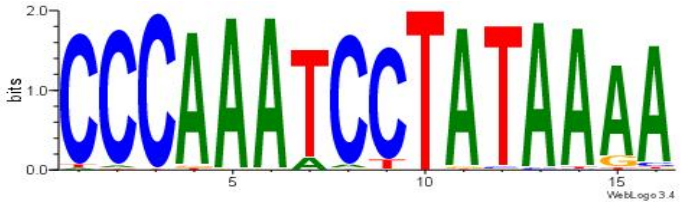

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

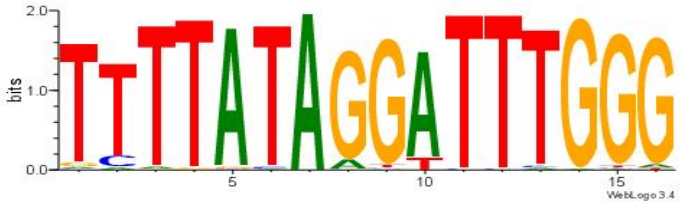

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0911468

Alignment:

```
ACCTGGAAAATCGGGTCACT
--------GTCTGGGAAGTG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

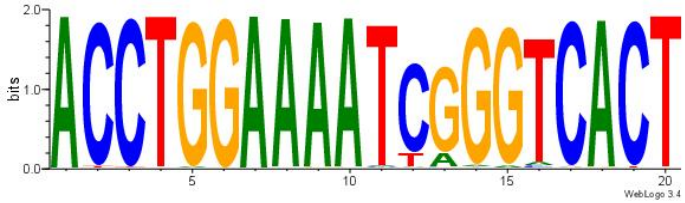

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

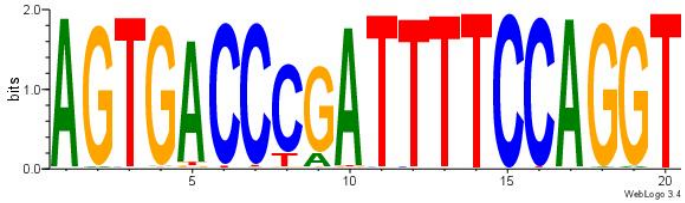

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0921138

Alignment:
ACTTTGGACTGTGGACTTTT
-GTCTGGGAAGTG-------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

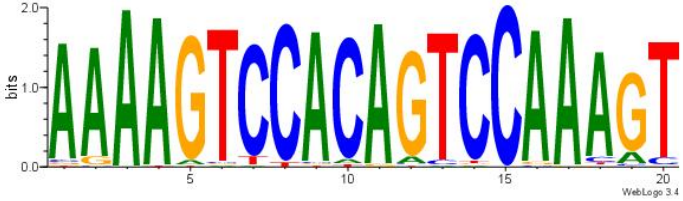

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

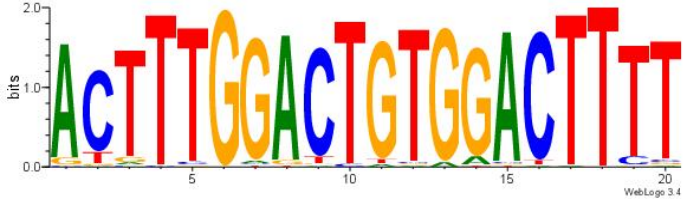

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0925188

Alignment:
GCTCCACCCAGTTCGAGCTT
-CACTTCCCAGAC-------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

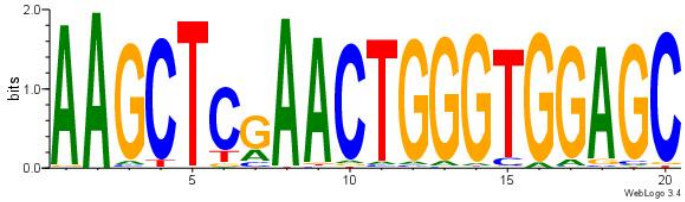

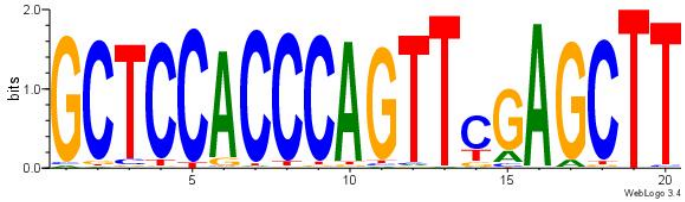

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0925584

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--------CACTTCCCAGAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

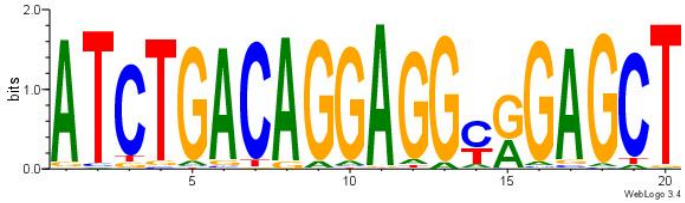

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

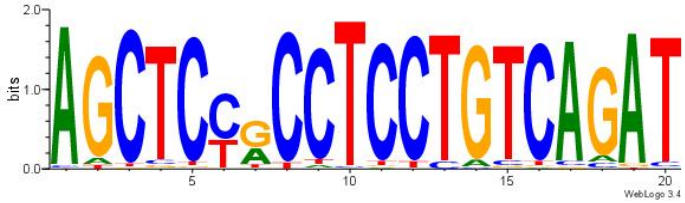

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.093686

Alignment:

```
GGATTTMKGACTTGCATGGG
--------GTCTGGGAAGTG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

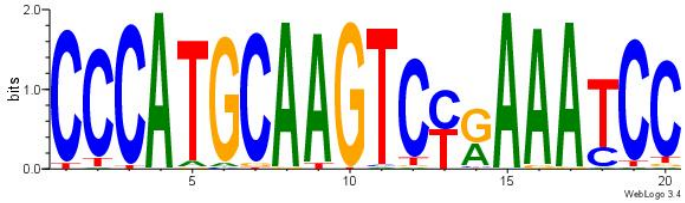

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

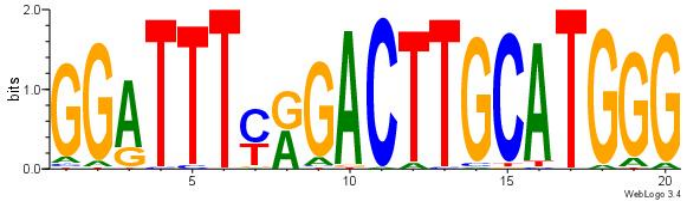

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0940511

Alignment:
CATTATGCTAARTG
--GTCTGGGAAGTG

Original motif Consensus sequence: CATTATGCTAARTG

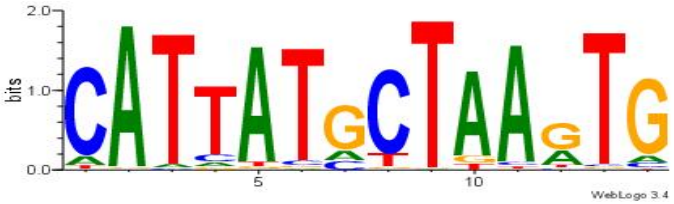

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

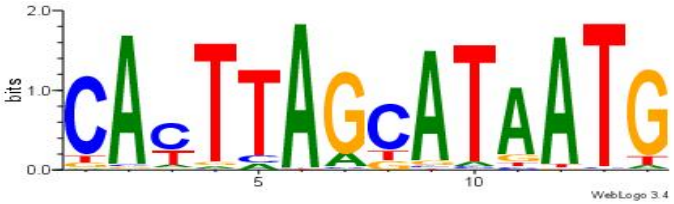

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.094096

Alignment:
CTGACTGGGAGACACCTCCC
--GTCTGGGAAGTG------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

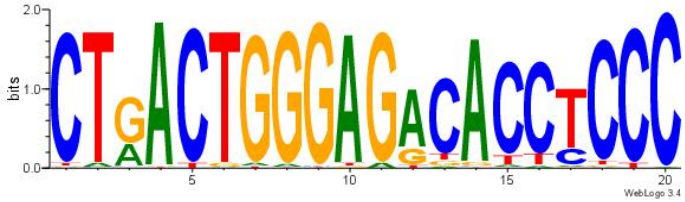

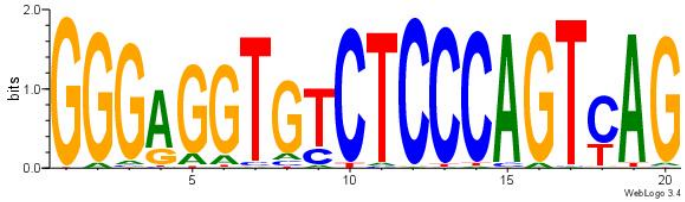

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0943915

Alignment:

```
AACCCTATTGTGAACTGYG
-----GTCTGGGAAGTG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

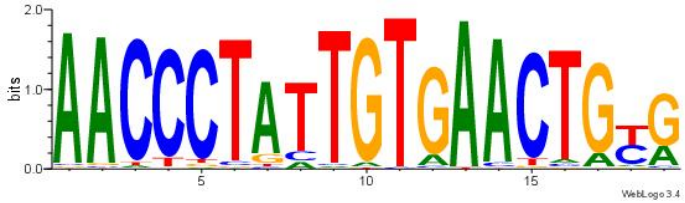

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

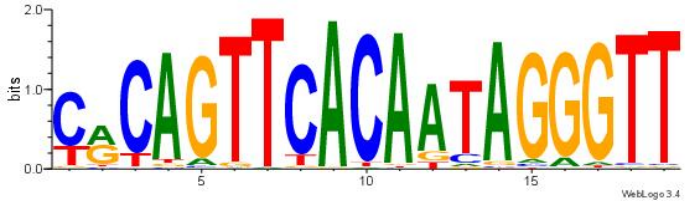

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0950655

Alignment:

```
CATTTGGGAGCCCATTGA
CACTTCCCAGAC------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

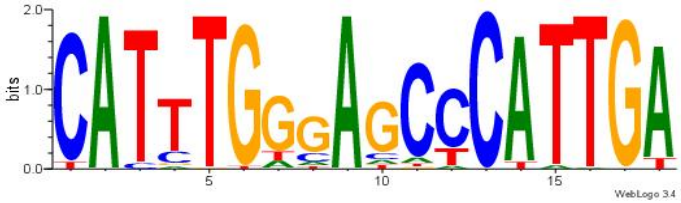

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

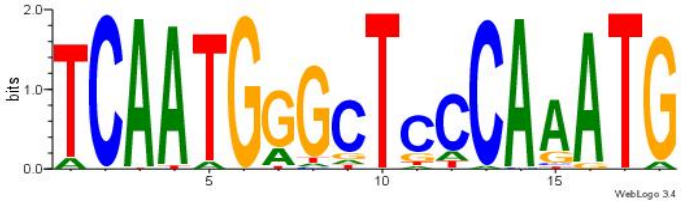

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0955666

Alignment:
CCGCGGGGCAGGGCTCG
-GTCTGGGAAGTG----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

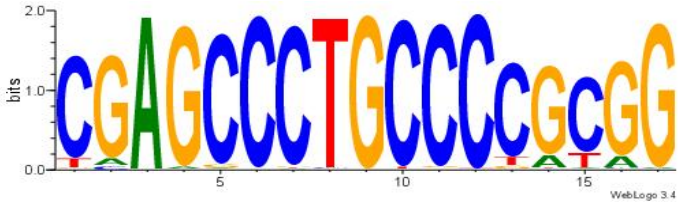

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

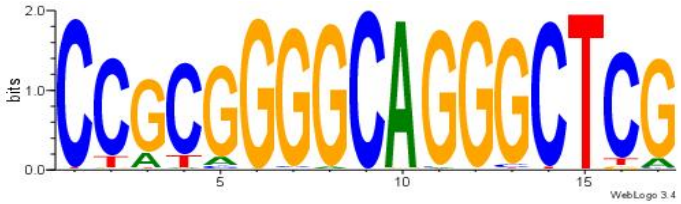

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.095658

Alignment:
CAGTCTGTGTCTTTTAATT
--GTCTGGGAAGTG-----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

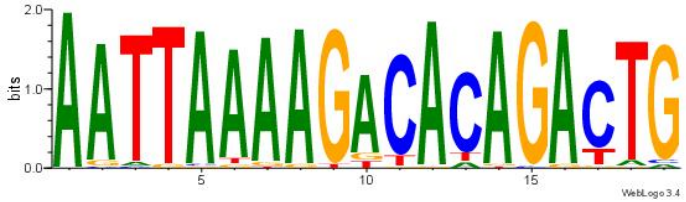

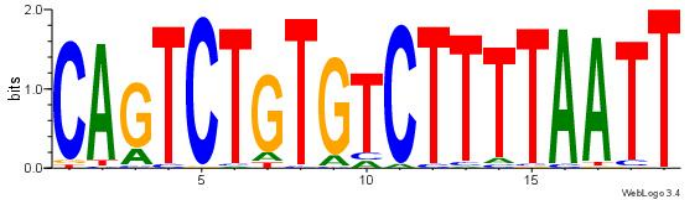

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0965206

Alignment:

```
TTGTCCCACTGGAAGGTCTT
------GTCTGGGAAGTG--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

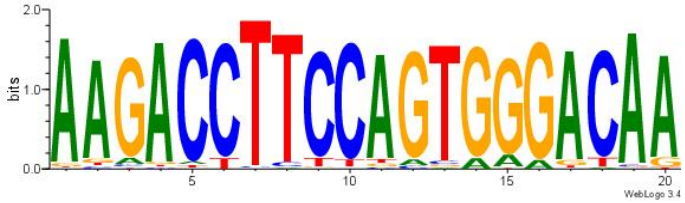

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

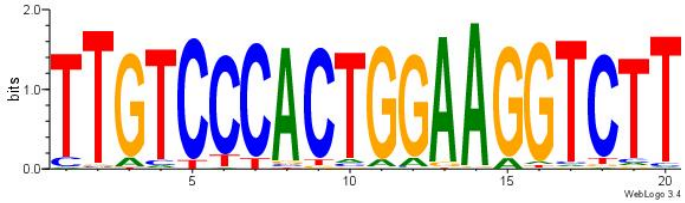

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0969638

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
CACTTCCCAGAC--------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

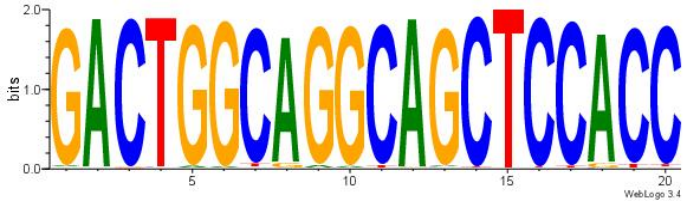

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

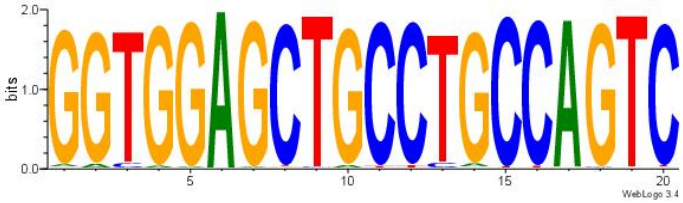

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0974871

Alignment:
GACTTCATGGAG
CACTTCCCAGAC

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

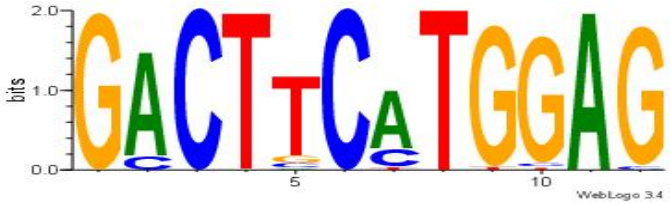

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0977163

Alignment:
TGGGCTGCCAGATG
--GTCTGGGAAGTG

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

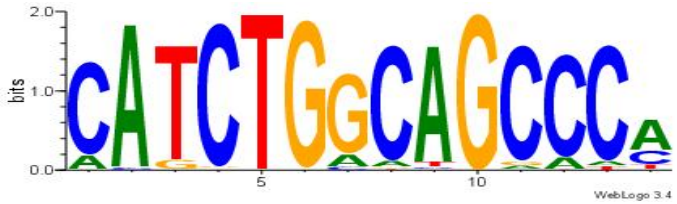

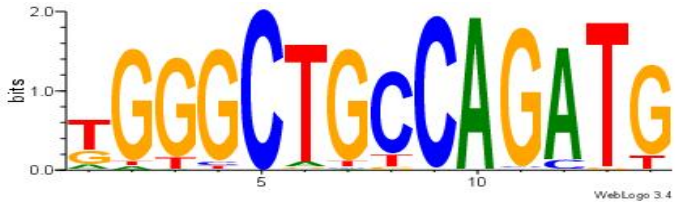

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.097912

Alignment:

```
TTTTCACATGCCTTTCT
----CACTTCCCAGAC-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

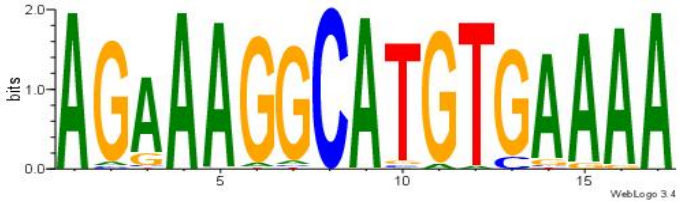

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

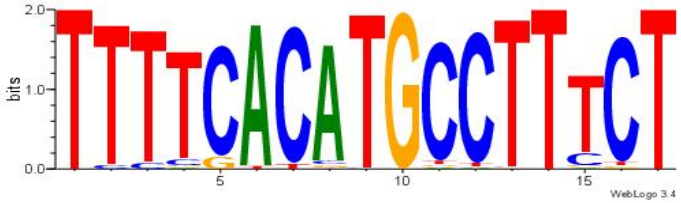

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0979172

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
----GTCTGGGAAGTG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

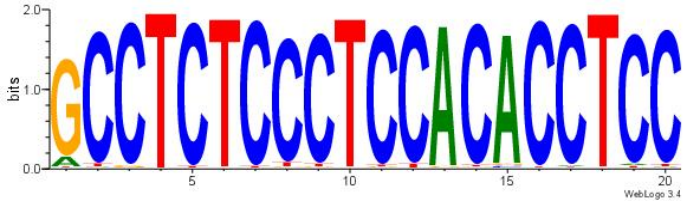

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

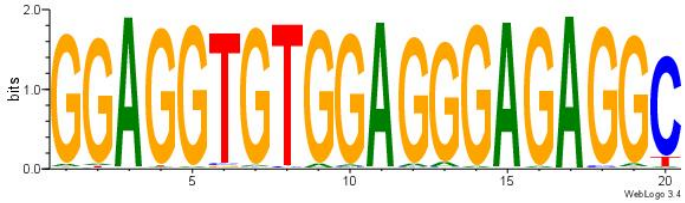

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0993508

Alignment:
AGTTGTAATTGGGAGACTT
-----CACTTCCCAGAC--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

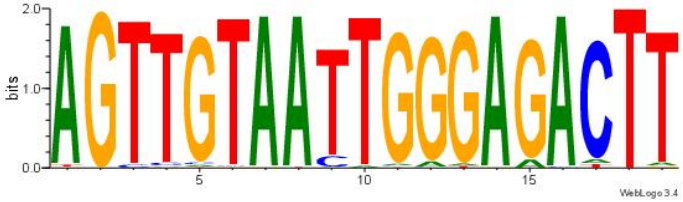

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

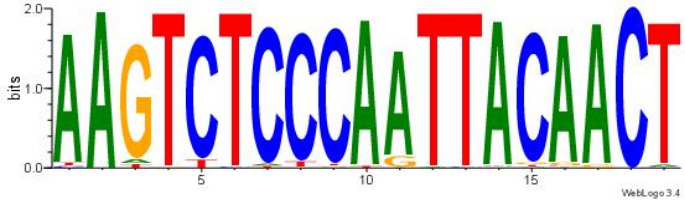

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0999072

Alignment:
AGGGATCTAGGTTGCR
----GTCTGGGAAGTG

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

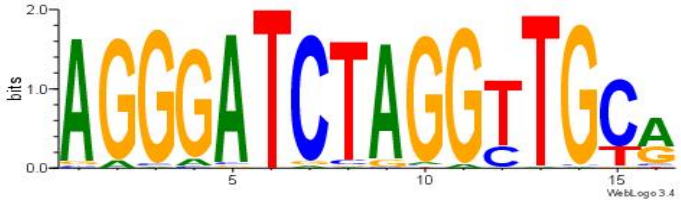

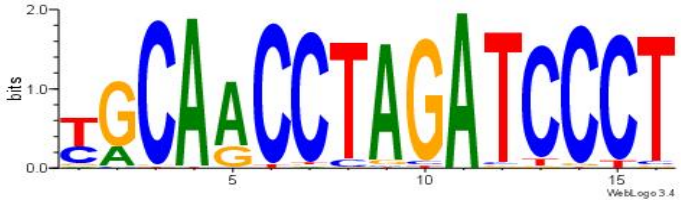

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.100016

Alignment:

```
AGGTATTTCTCCCACC
---CACTTCCCAGAC-
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

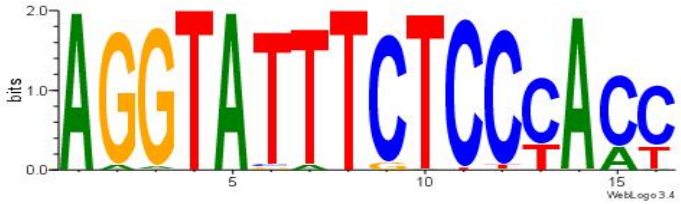

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

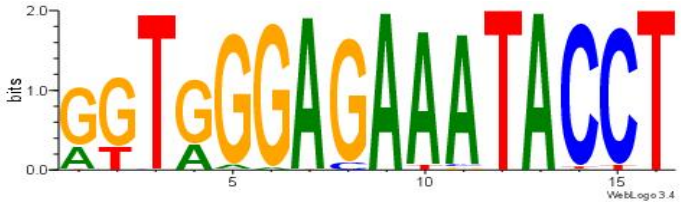

Dataset #: 1

Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.101754

Alignment:

```
CCTCCCSGACGRG
GTCTGGGAAGTG-
```

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

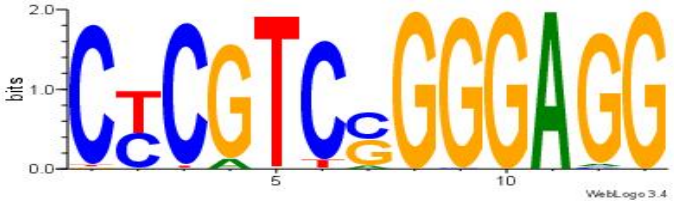

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102683

Alignment:
TAGTGGTGATTTSTGAGAT
-------CACTTCCCAGAC

Original motif Consensus sequence: ATCTCASAAATCACCACTA

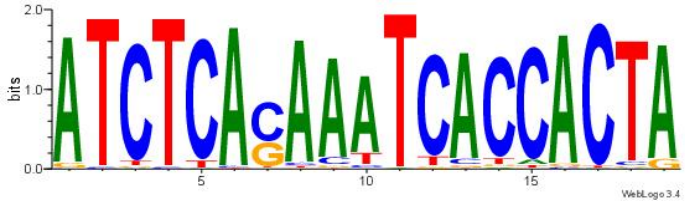

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

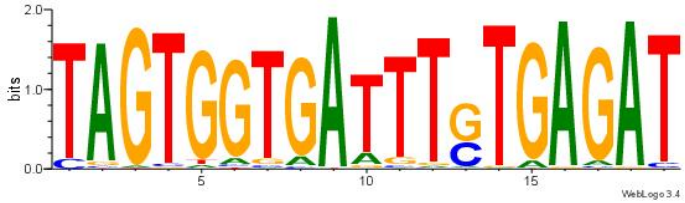

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.102716

Alignment:
GTAGCTGGGAYTACA
-GTCTGGGAAGTG--

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

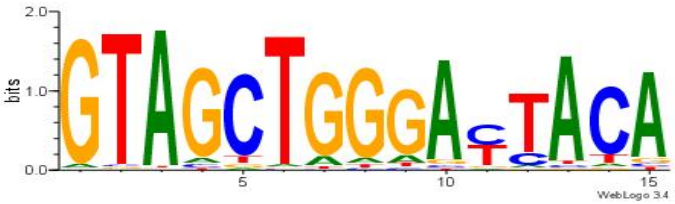

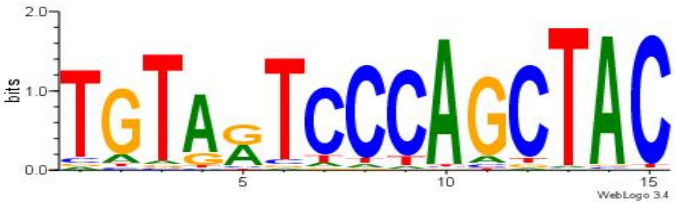

Dataset #: 1 **Motif ID: 20** **Motif name: Motif 20**

Original motif Consensus sequence: ACAATGGACC

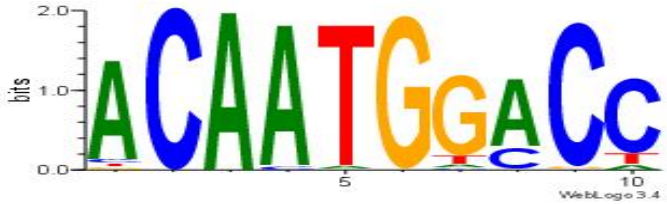

Reverse complement motif Consensus sequence: GGTCCATTGT

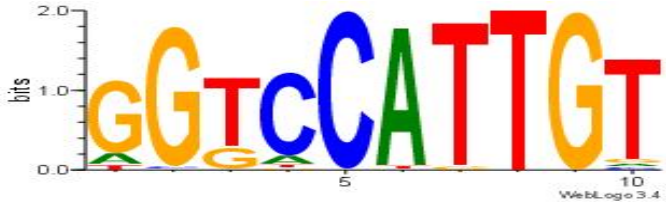

Best Matches for Significant Motif ID 20 (Highest to Lowest)

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0500147

Alignment:

```
GKCTGTACCCCCATTGTAT
-------GGTCCATTGT--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

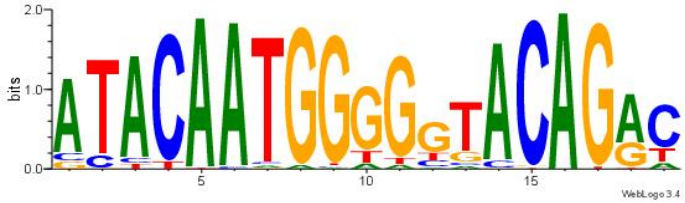

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

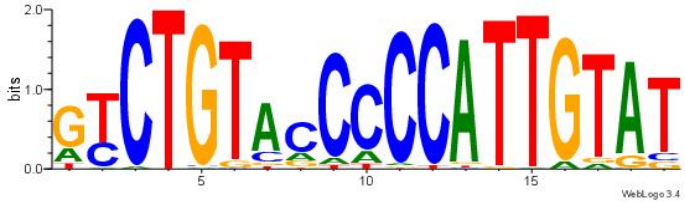

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.059291

Alignment:

```
GCAWSTGCAAAGGCCCT
------ACAATGGACC-
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

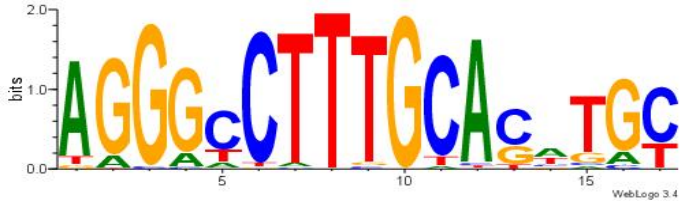

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

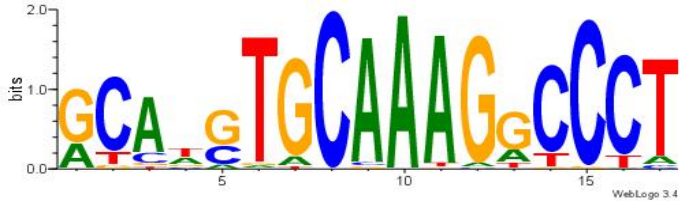

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0608949

Alignment:

```
CATTTGGGAGCCCATTGA
--------GGTCCATTGT
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

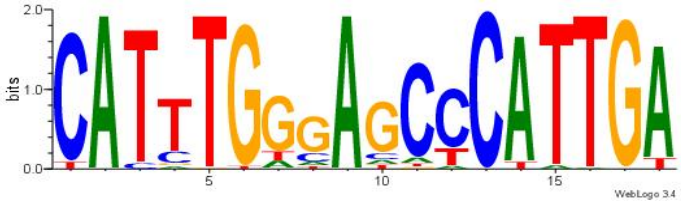

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

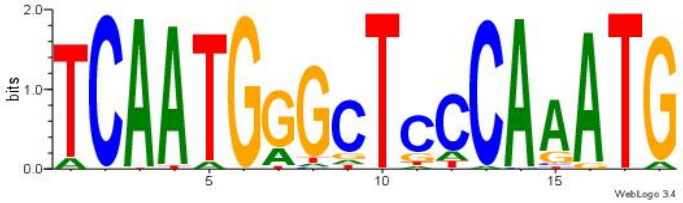

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 10
Similarity score: 0.0668018

Alignment:
CGCCCATCGTCTGGGATGT
GGTCCATTGT---------

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

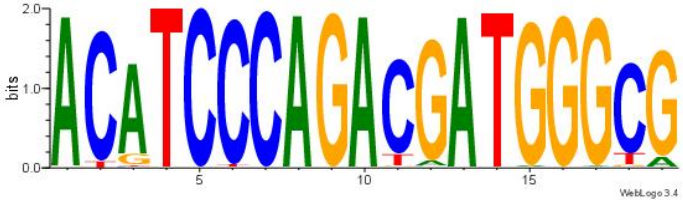

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

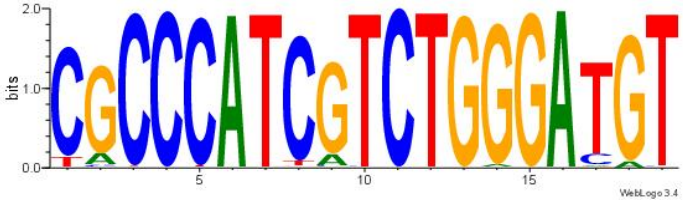

Dataset #: 1
Motif ID: 147
Motif name: Motif 147
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0697279

Alignment:
TCAATGGTGCCCAG
ACAATGGACC----

Original motif Consensus sequence: CTGGGCACCATTGA

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

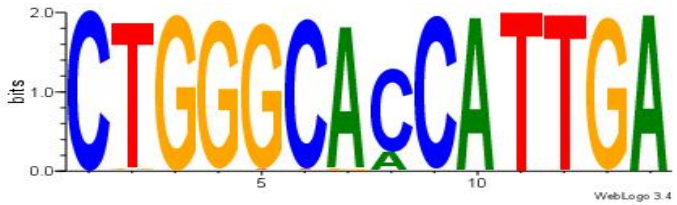

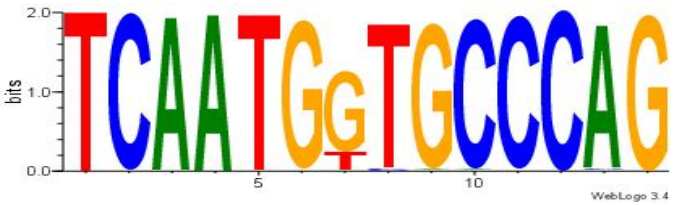

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0705635

Alignment:

```
ACTTTGGACTGTGGACTTTT
-------ACAATGGACC---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

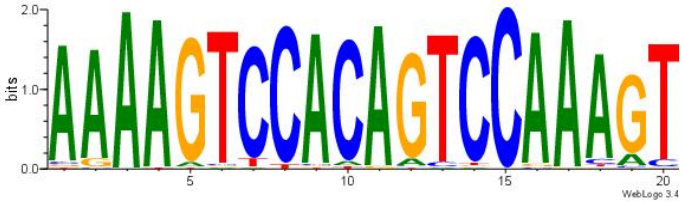

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

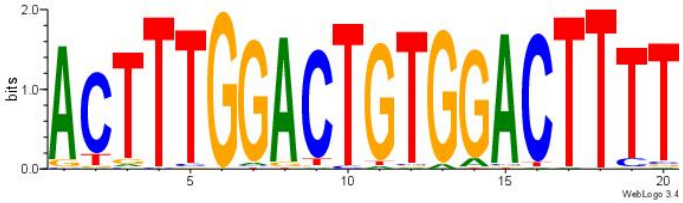

Dataset #: 1

Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0720541

Alignment:

```
TGGGTTCYTGGTC
--GGTCCATTGT-
```

Original motif Consensus sequence: GACCAMGAACCCA

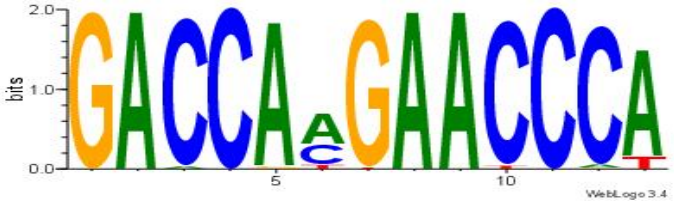

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

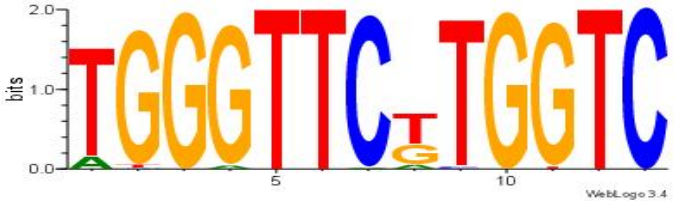

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0723294

Alignment:
CCGCTGCACTGTGGGAGCCC
--GGTCCATTGT--------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

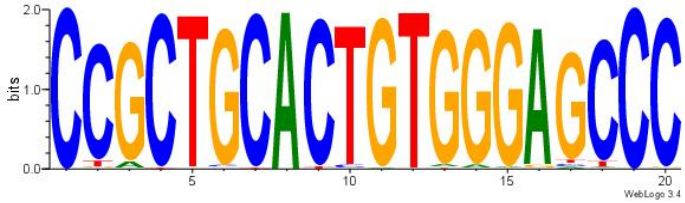

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

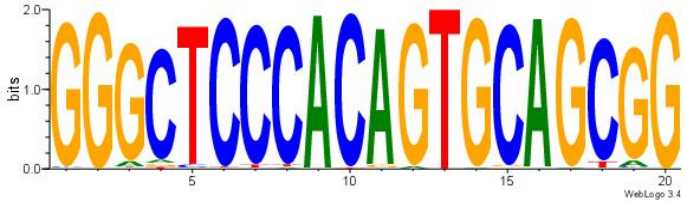

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0731132

Alignment:
AGGCCCCAGTGTSTGTTGTT
--GGTCCATTGT--------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

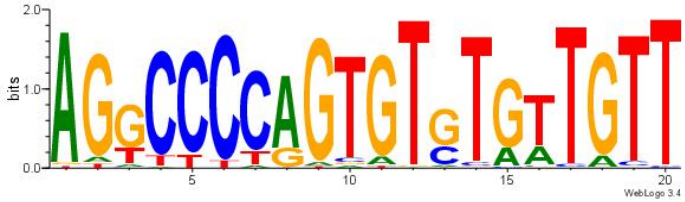

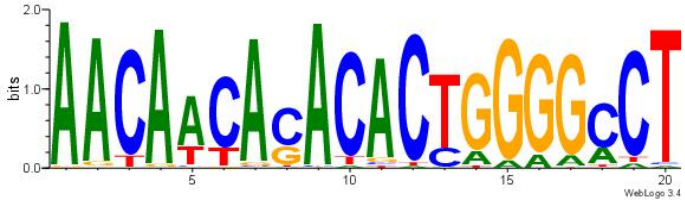

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0731883

Alignment:

```
TGHCCTGCKCCCACTGTCT
-------GGTCCATTGT--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

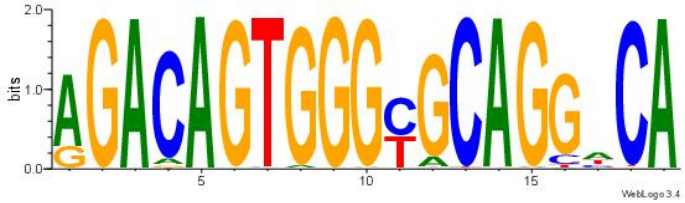

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

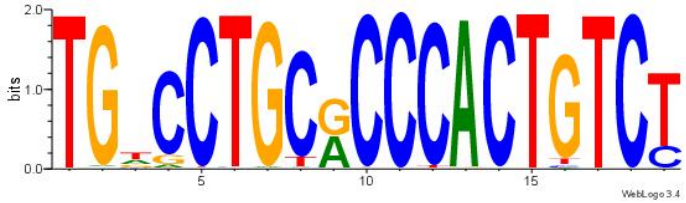

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.073335

Alignment:

```
CTTGGGTGGTCGATGGGAC
-------GGTCCATTGT--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

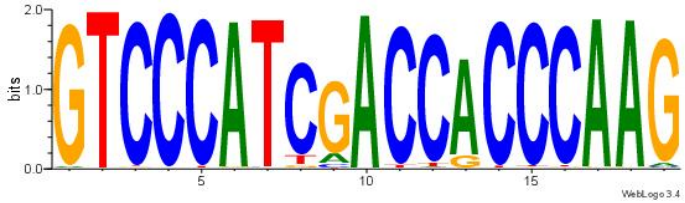

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

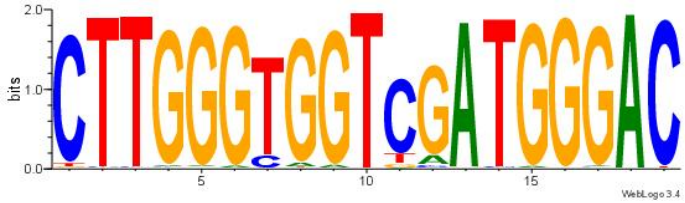

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.0750207

Alignment:
TGCTGGAGGTCCACTCCAGA
-------GGTCCATTGT---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

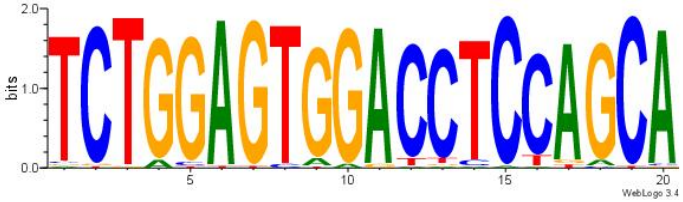

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

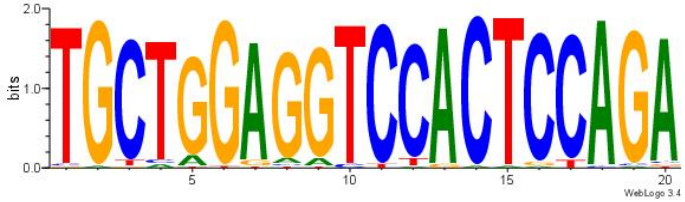

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.07586

Alignment:
MGAAGGGACTTGCCTTGT
ACAATGGACC--------

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

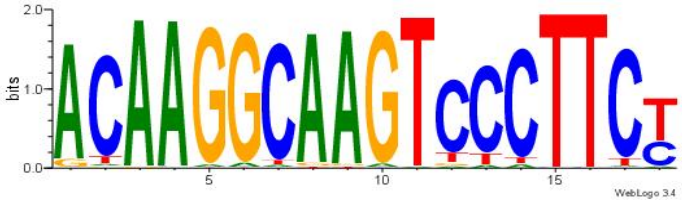

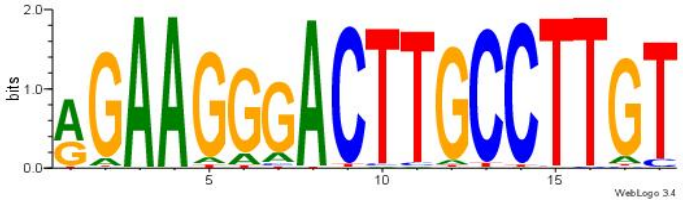

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0763376

Alignment:

```
AAGGTCCATGTAG
--GGTCCATTGT-
```

Original motif Consensus sequence: AAGGTCCATGTAG

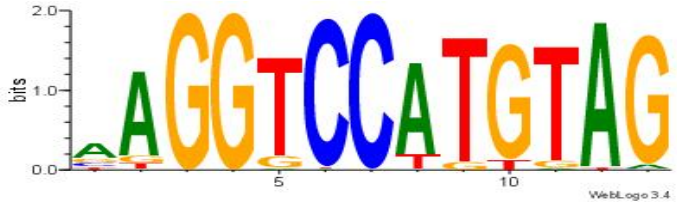

Reverse complement motif Consensus sequence: CTACATGGACCTT

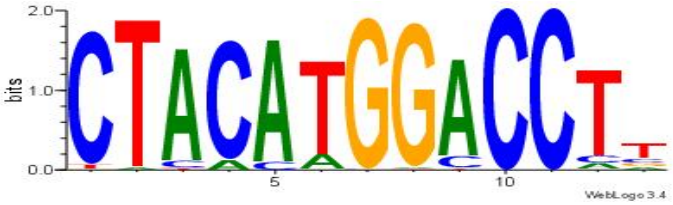

Dataset #:	1
Motif ID:	220

Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0776138

Alignment:

```
GTGGGTGCAGTGCA
---GGTCCATTGT-
```

Original motif Consensus sequence: TGCACTGCACCCAC

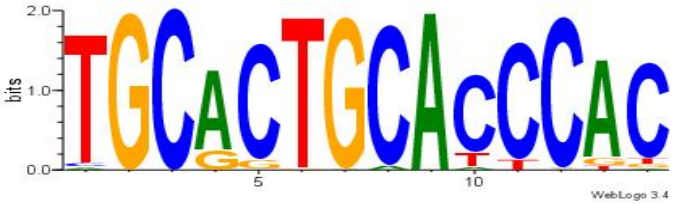

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

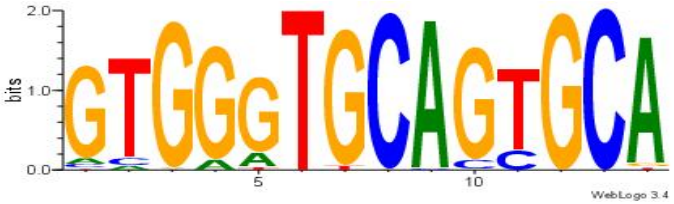

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0791927

Alignment:
TAGTGGTGATTTSTGAGAT
----GGTCCATTGT-----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

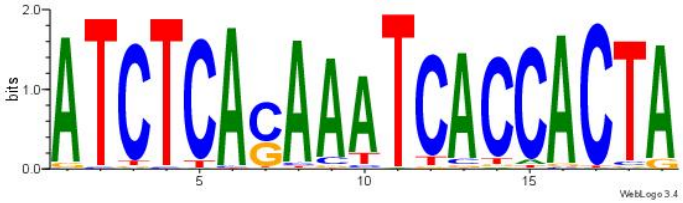

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

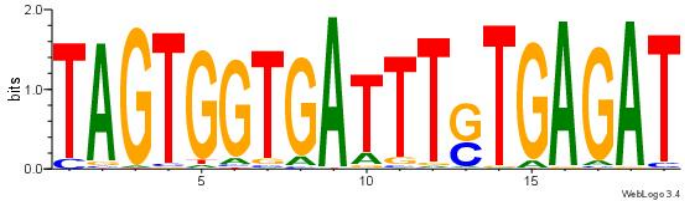

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0796534

Alignment:
CAAGCCTSKGCAATGGCAGG
---------ACAATGGACC-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

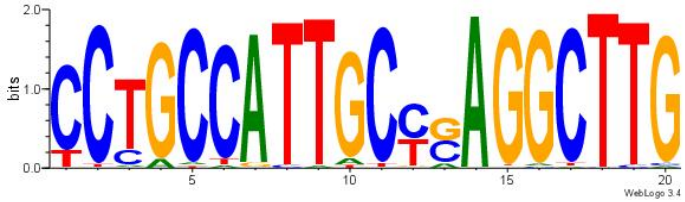

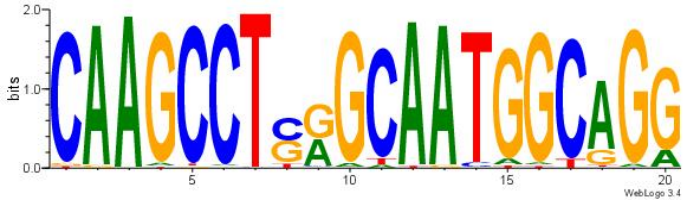

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0802761

Alignment:

```
CGGCTTCATTCTTGAAGTC
--GGTCCATTGT-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

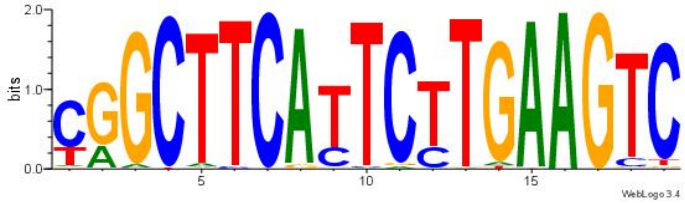

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0811951

Alignment:

```
GGATCCACTGGGTGAAGCCA
-GGTCCATTGT---------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

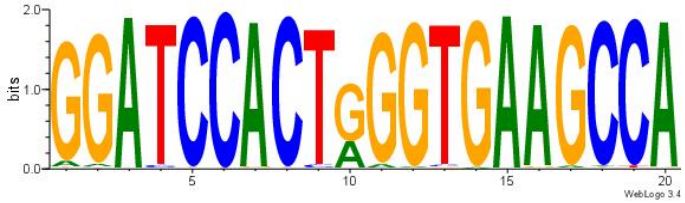

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

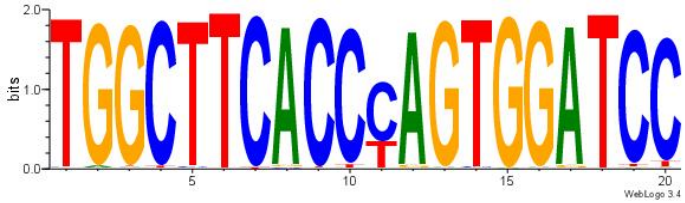

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0811997

Alignment:
GCAAAKGACATGATYTCATT
ACAATGGACC----------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

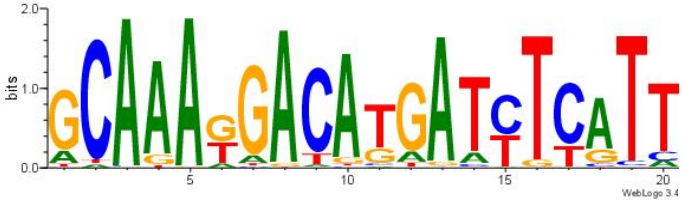

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

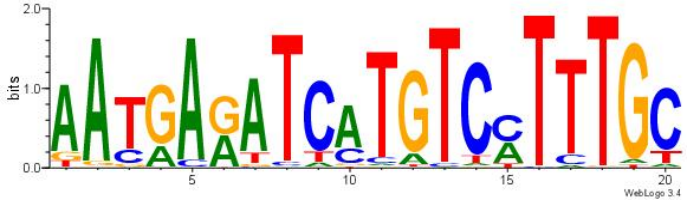

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0839814

Alignment:
TGCCCAGTCTGGAAAGTG
GGTCCATTGT--------

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence:
CACTTTCCAGACTGGGCA

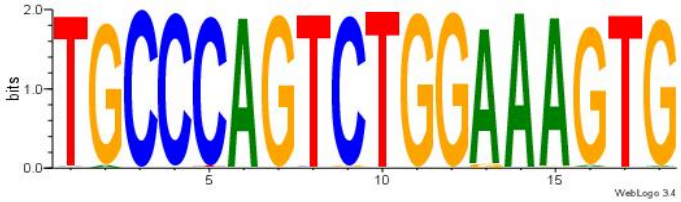

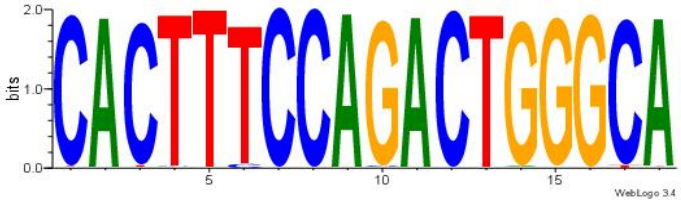

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.085276

Alignment:

```
GCTCCWGTGYGKCC
GGTCCATTGT----
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

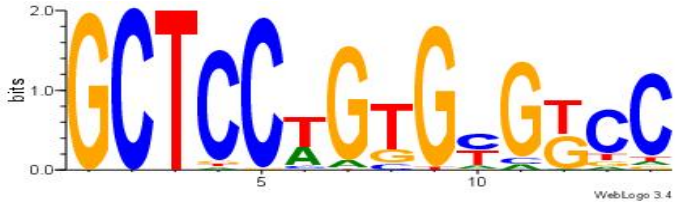

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	3

Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0854275

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-----GGTCCATTGT-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

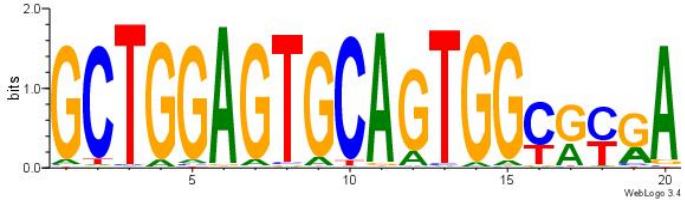

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

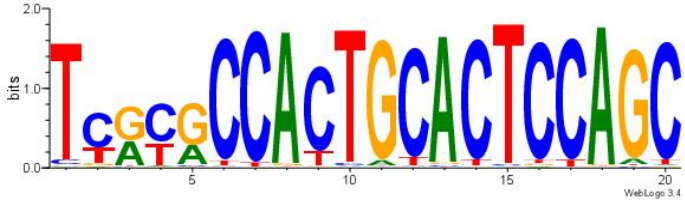

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0864668

Alignment:
TCTMKGCTCACTGC
----GGTCCATTGT

Original motif Consensus sequence: GCAGTGAGCYRAGA

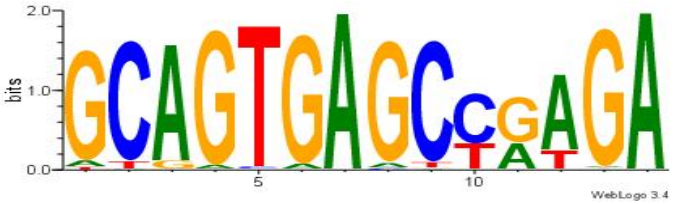

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

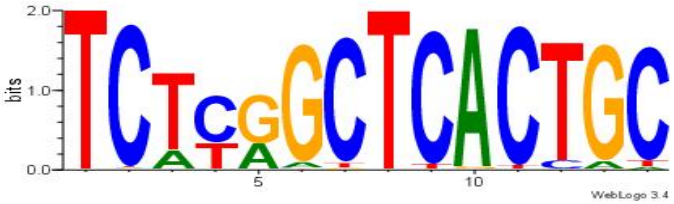

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0868471

Alignment:
AAGGGACATTKGAG
--GGTCCATTGT--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

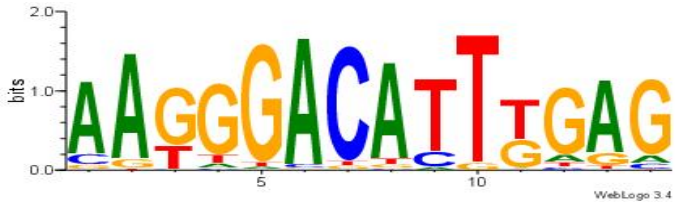

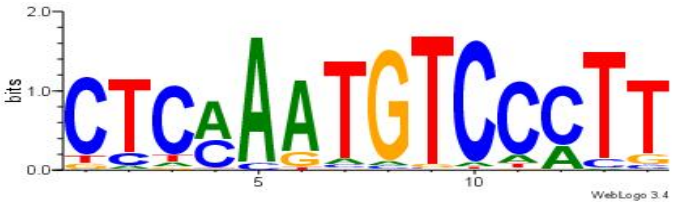

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0870139

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--GGTCCATTGT--------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

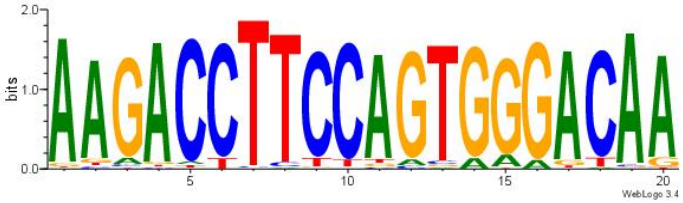

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

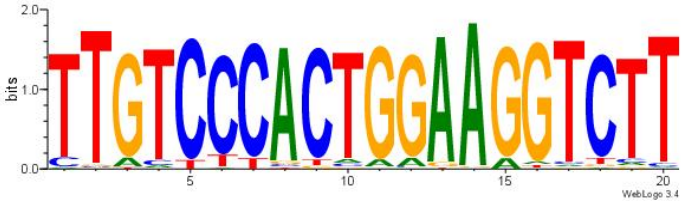

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0880048

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-------ACAATGGACC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

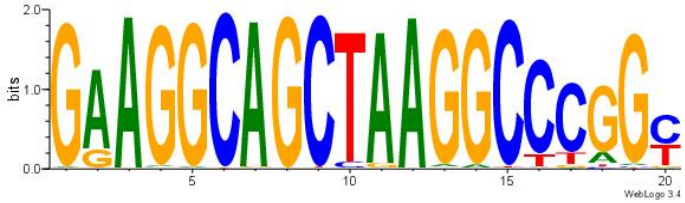

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

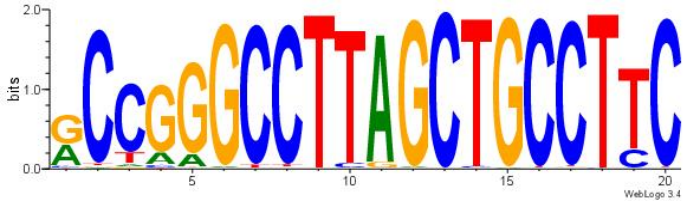

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0884718

Alignment:
AACCCTATTGTGAACTGYG
-GGTCCATTGT--------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

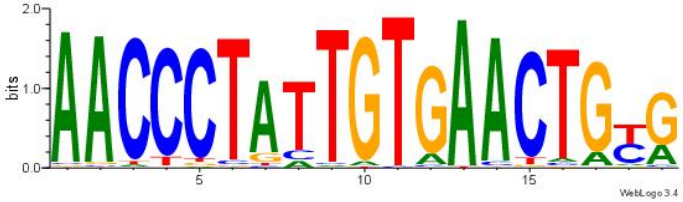

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

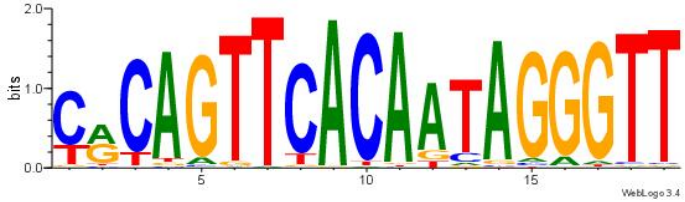

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0885984

Alignment:
GTAGACKGGAGCTGTTCCT
--ACAATGGACC-------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

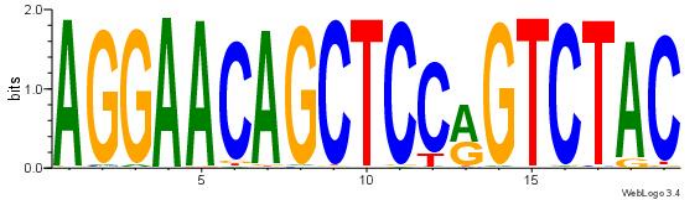

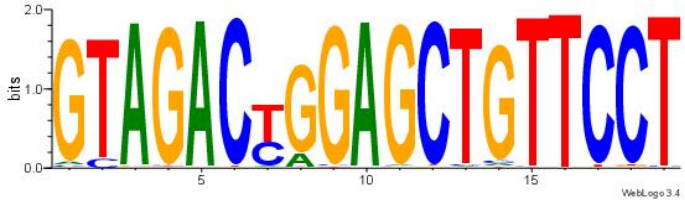

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0887281

Alignment:

```
TAGATAATAGCTCCAGCTTT
---ACAATGGACC-------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

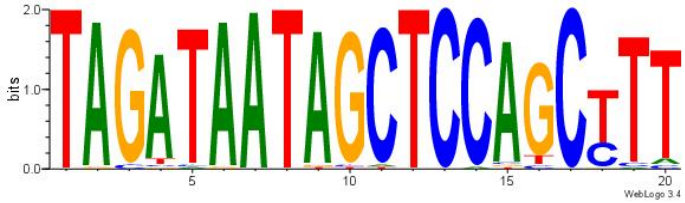

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

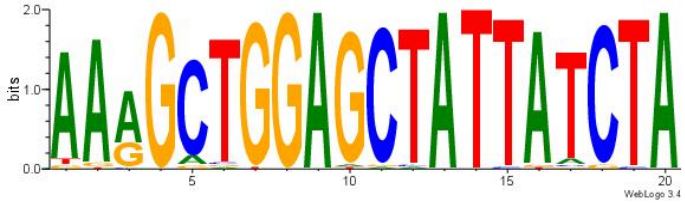

Dataset #: 1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0893018

Alignment:

```
CAAGGTCTGATTGTW
----GGTCCATTGT-
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

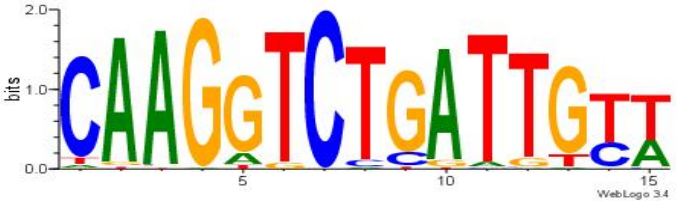

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0901318

Alignment:
CCGCTCCTGTGC
--GGTCCATTGT

Original motif Consensus sequence: CCGCTCCTGTGC

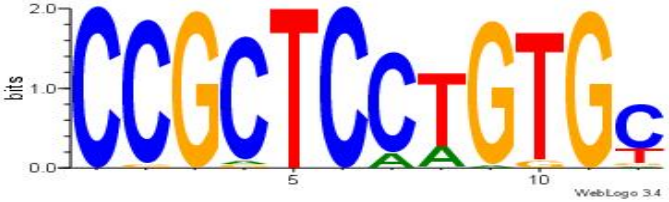

Reverse complement motif Consensus sequence: GCACAGGAGCGG

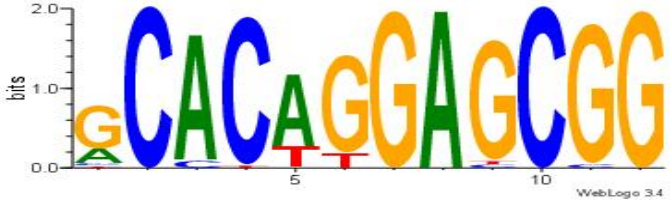

Dataset #:	1
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0903241

Alignment:
AAGATGGCCGAAT
ACAATGGACC---

Original motif Consensus sequence: AAGATGGCCGAAT

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

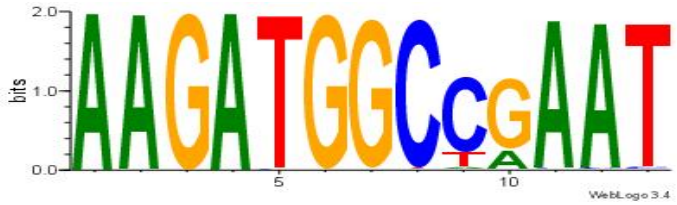

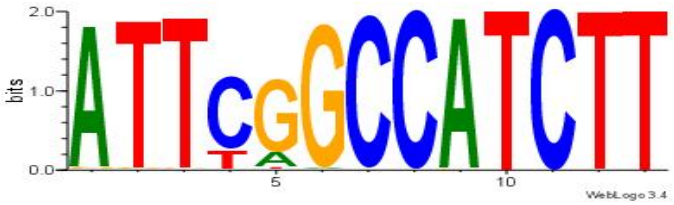

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0905928

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-GGTCCATTGT---------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

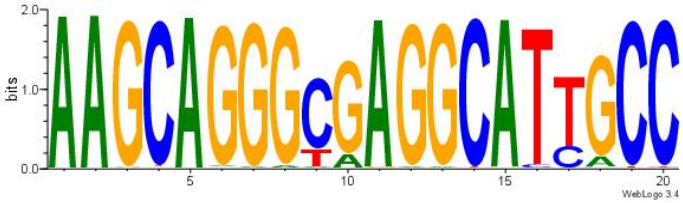

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

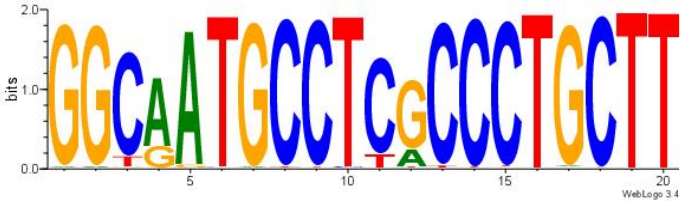

Dataset #: 1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0911227

Alignment:

```
AATGACCAATTGAGAGC
---GGTCCATTGT----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

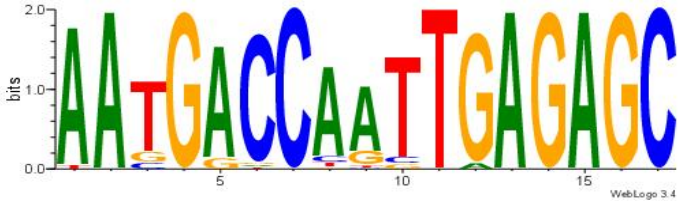

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

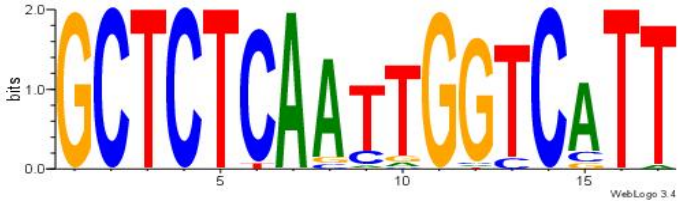

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0911363

Alignment:
AAATTAGGCCAATTAATAAC
------GGTCCATTGT----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

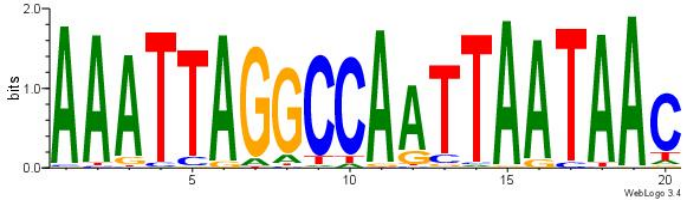

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 9
Motif name: Motif 9
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0918202

Alignment:
CACATGGAGC
ACAATGGACC

Original motif Consensus sequence: CACATGGAGC

Reverse complement motif Consensus sequence: GCTCCATGTG

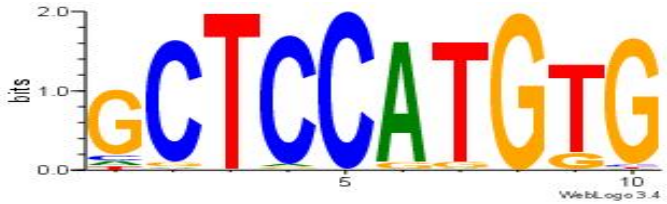

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0924698

Alignment:

```
AGGAGGAAGTCAATTTC
-------GGTCCATTGT
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

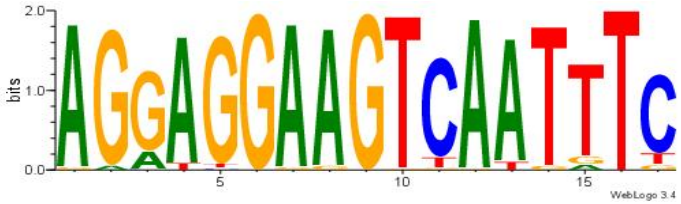

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

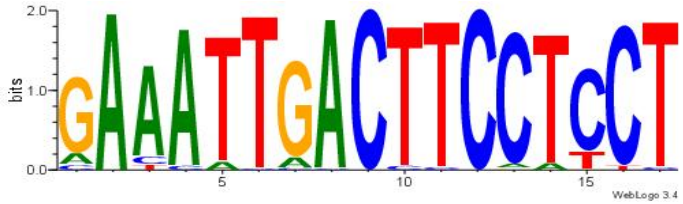

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0925883

Alignment:

```
ACACATCACAAAGCAGTTTC
-------ACAATGGACC---
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

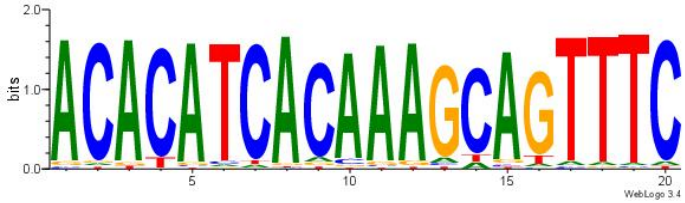

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

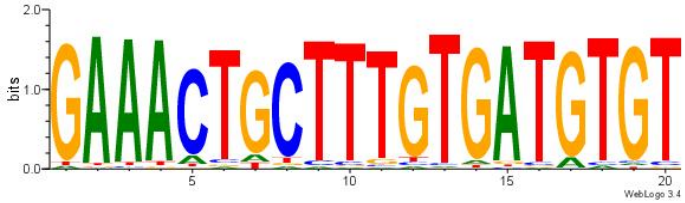

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0927462

Alignment:
GGTTTTCCATTCCTGAG
---GGTCCATTGT----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

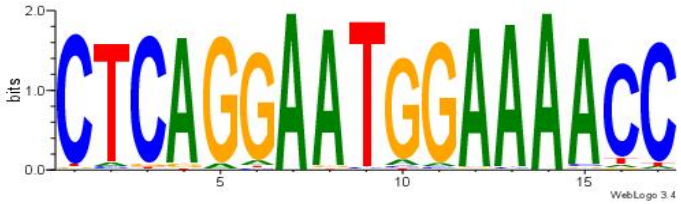

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

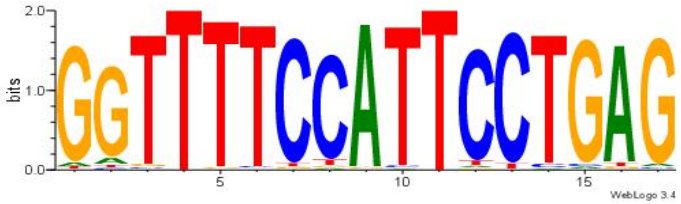

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0928423

Alignment:
GCCAGTCACAAAARGACAMA
-------ACAATGGACC---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

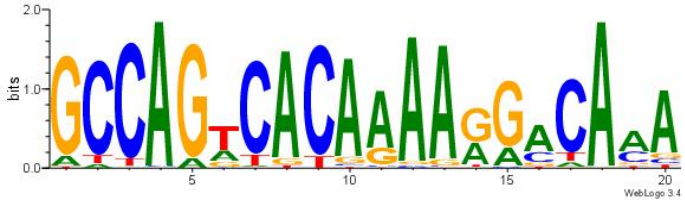

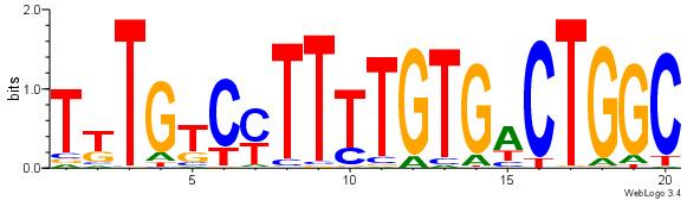

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0928897

Alignment:
HGCTCCTGTGSKCCC
-GGTCCATTGT----

Original motif Consensus sequence: HGCTCCTGTGSKCCC

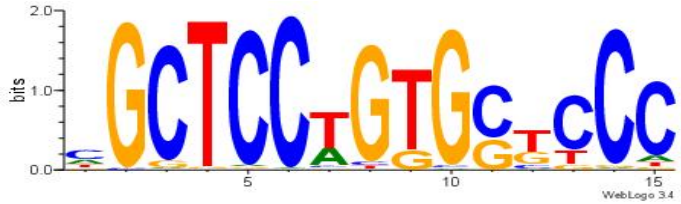

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0930371

Alignment:

```
KKCACCTTGATCTTGGACTT
GGTCCATTGT----------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

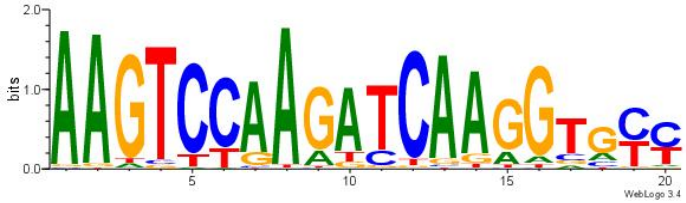

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

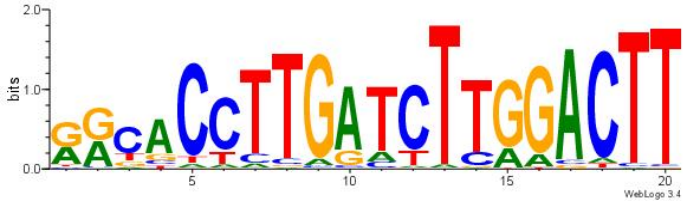

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.0931933

Alignment:
GTTTAACCATTGAGGGCCAG
-----ACAATGGACC-----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

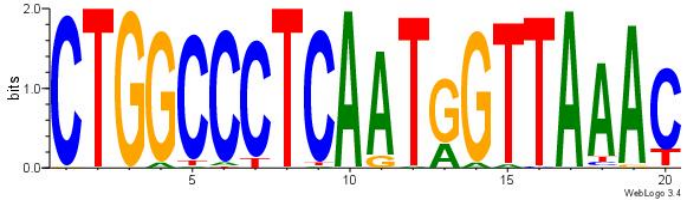

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

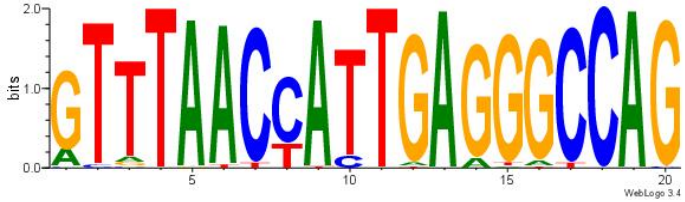

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0935433

Alignment:
CTAGACATAAAGGTTCTCCA
------ACAATGGACC----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

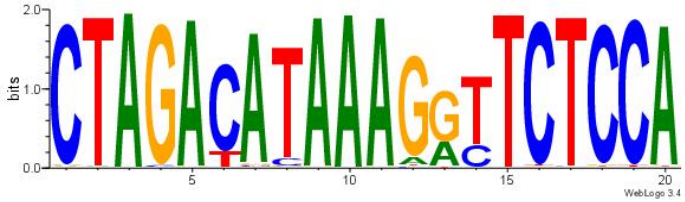

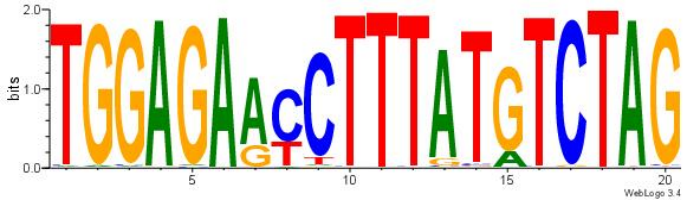

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0938922

Alignment:

```
GCTTCCATGTG
GGTCCATTGT-
```

Original motif Consensus sequence: CACATGGAAGC

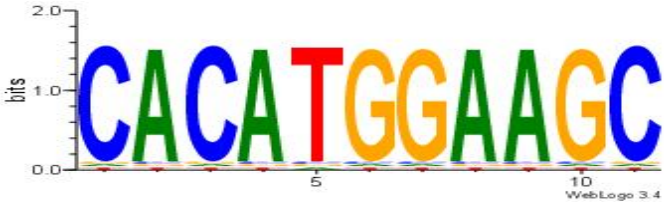

Reverse complement motif Consensus sequence: GCTTCCATGTG

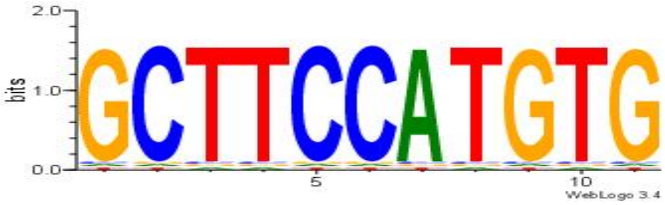

Dataset #:	1
Motif ID:	256

Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0939229

Alignment:

```
RCAGTGTACACTGY
----GGTCCATTGT
```

Original motif Consensus sequence: RCAGTGTACACTGY

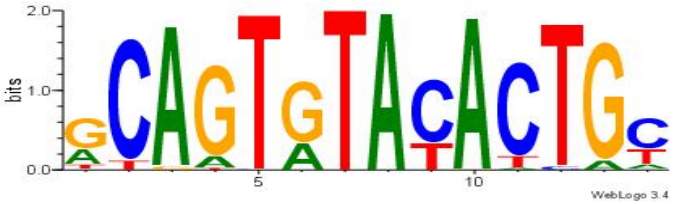

Reverse complement motif Consensus sequence: KCAGTGTACACTG

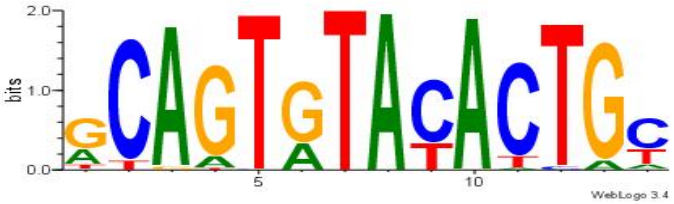

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0940653

Alignment:
GGTTCATCTCACTAGGGAGT
GGTCCATTGT----------

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

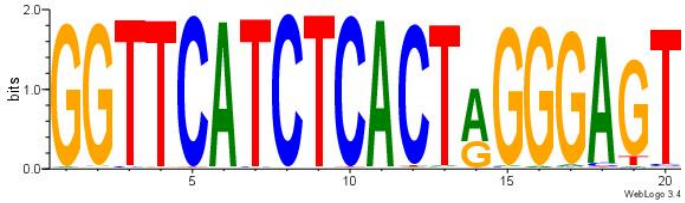

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

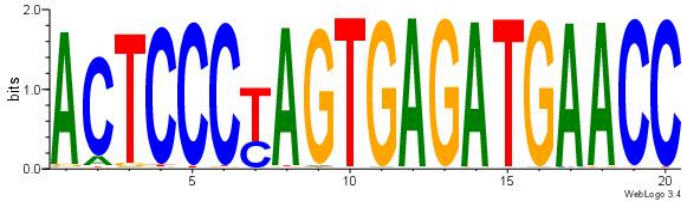

Dataset #:	1
Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0941542

Alignment:
CTCAAGGTCCA
-ACAATGGACC

Original motif Consensus sequence: CTCAAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTTGAG

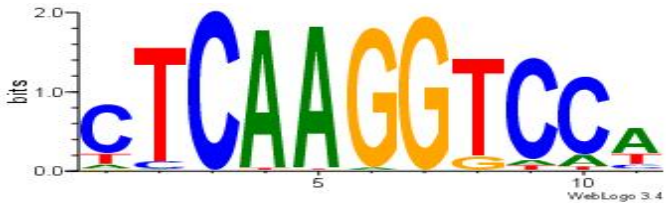

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0945415

Alignment:

```
GAGCCACYGCRCC
---ACAATGGACC
```

Original motif Consensus sequence: GAGCCACYGCRCC

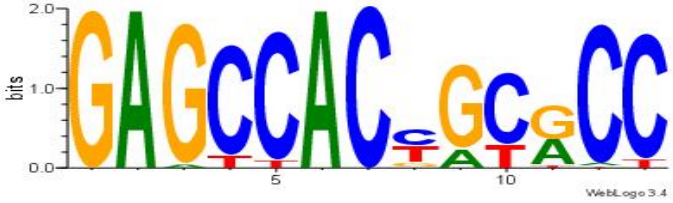

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #: 1 Motif ID: 296 Motif name: Motif 296

Original motif Consensus sequence: CCACGTGG

Reverse complement motif Consensus sequence: CCACGTGG

Best Matches for Significant Motif ID 296 (Highest to Lowest)

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0506234

Alignment:

```
CCATGTGSTCCC
CCACGTGG----
```

Original motif Consensus sequence: CCATGTGSTCCC

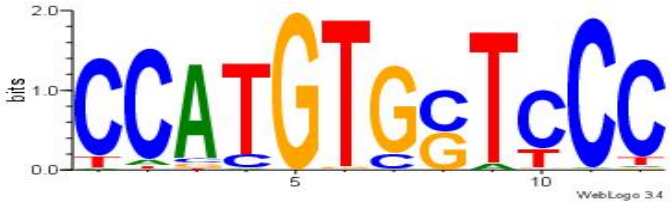

Reverse complement motif Consensus sequence: GGGASCACATGG

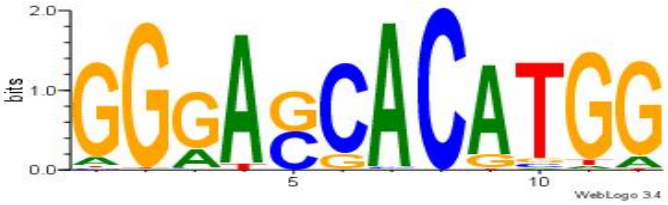

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0551535

Alignment:

```
GGATCCACTGGGTGAAGCCA
--------CCACGTGG----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

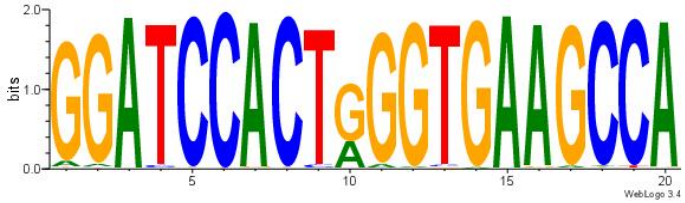

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

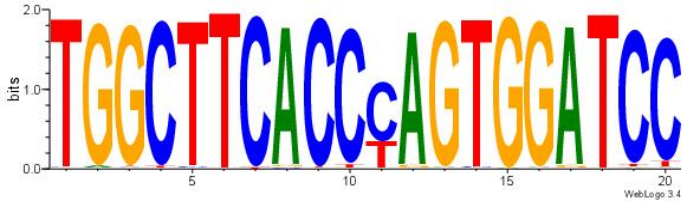

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 8
Similarity score: 0.0566616

Alignment:
CCCACGCCCACCCGGAACT
----CCACGTGG-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

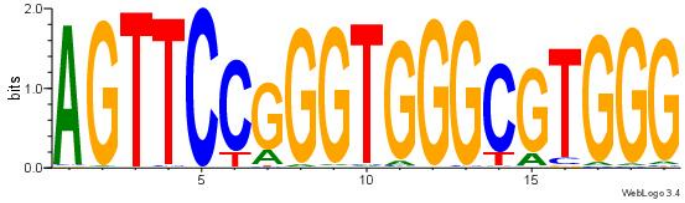

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

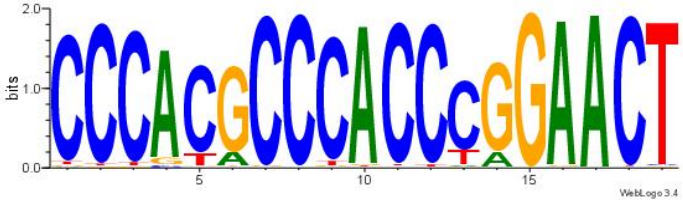

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 13
Number of overlap: 8
Similarity score: 0.0583814

Alignment:
CAACATGGATGRARCTGGAG
----------CCACGTGG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

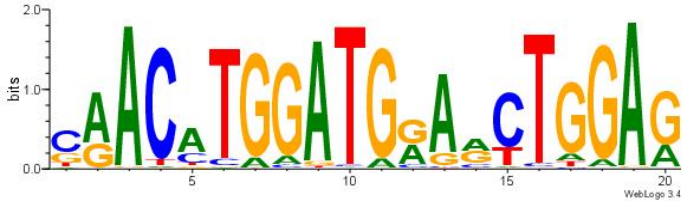

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

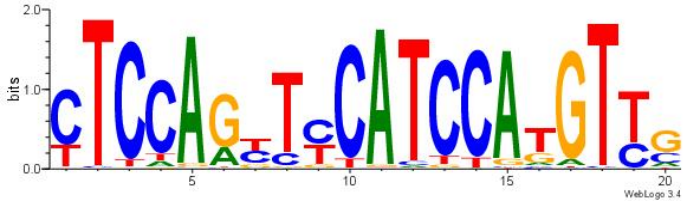

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0613138

Alignment:

```
GGAGCCCACGGAGG
-----CCACGTGG-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

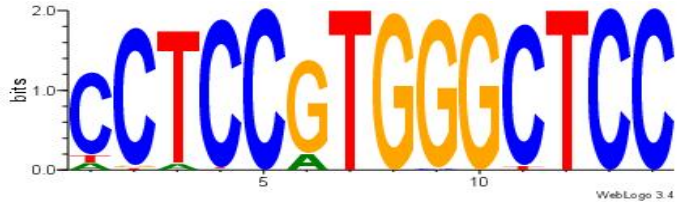

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

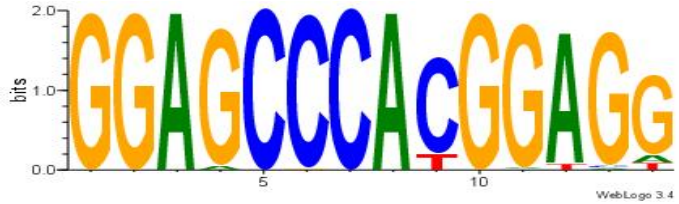

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0631918

Alignment:

```
GAGAACACATGGACA
---CCACGTGG----
```

Original motif Consensus sequence: GAGAACACATGGACA

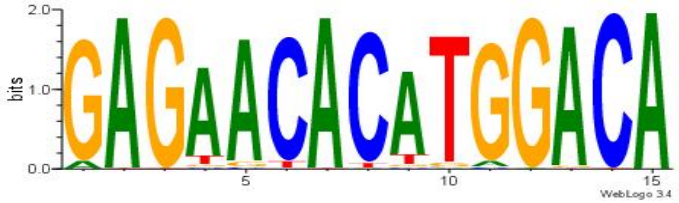

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

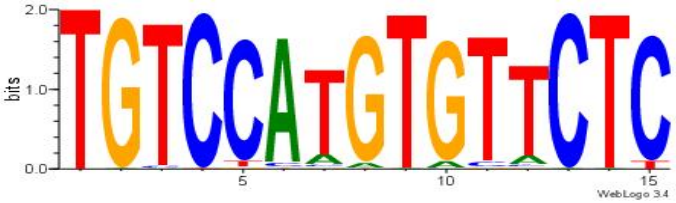

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8

Similarity score: 0.0648767

Alignment:
CCGCGGGGCAGGGCTCG
---------CCACGTGG

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

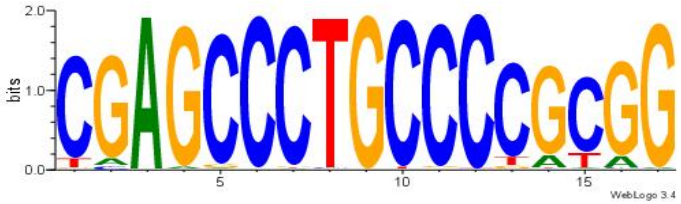

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

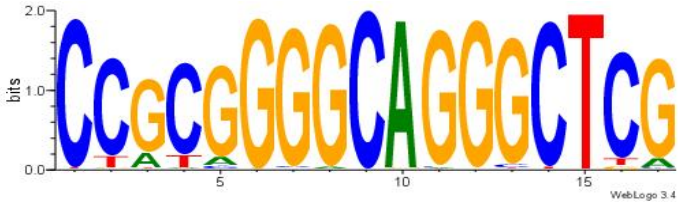

Dataset #: 1
Motif ID: 141
Motif name: Motif 141
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 8
Similarity score: 0.0654981

Alignment:
CTACATGGACCTT
CCACGTGG-----

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

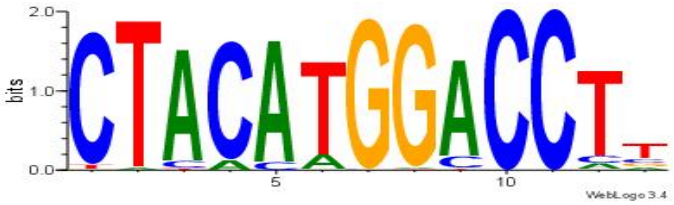

Dataset #:	1
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0680404

Alignment:

```
CCATGTGCGG
--CCACGTGG
```

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0699602

Alignment:

```
GCCAATTTCTCCCATTTGGA
-CCACGTGG-----------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

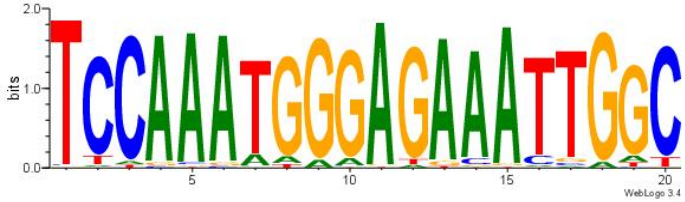

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

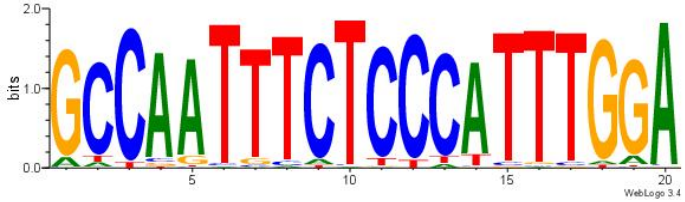

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0731999

Alignment:
GAGACTCCGTGGGCGT
----CCACGTGG----

Original motif Consensus sequence: ACGCCCACGGAGTCTC

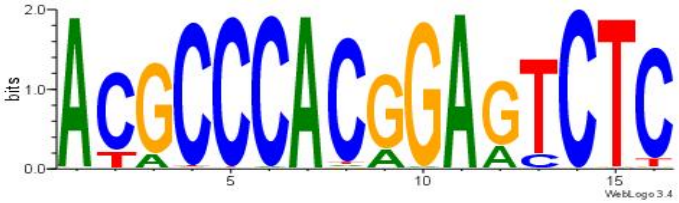

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

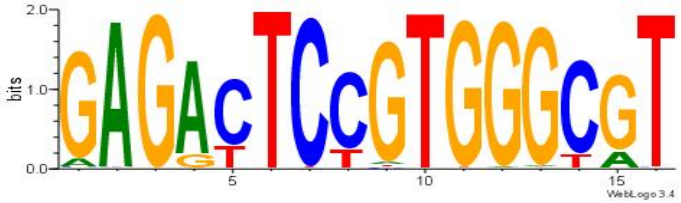

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0791258

Alignment:
CTTGCGCTTCCCRRGTGA
CCACGTGG----------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

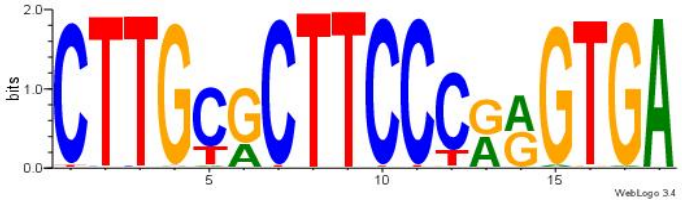

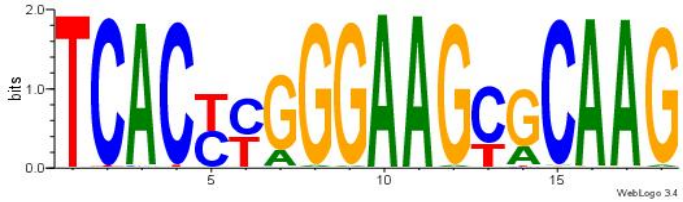

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0791749

Alignment:

```
CTCCTGACCTCGTGATC
--CCACGTGG-------
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

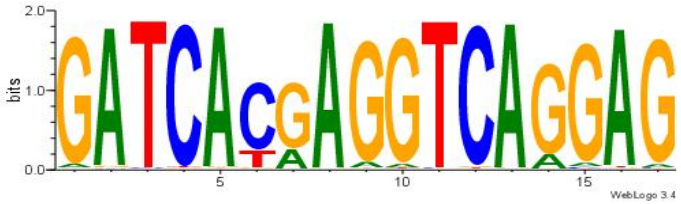

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

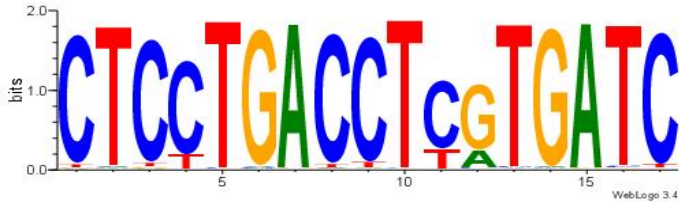

Dataset #: 1

Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0807014

Alignment:

```
CCATCTAGGAAGTG
------CCACGTGG
```

Original motif Consensus sequence: CACTTCCTAGATGG

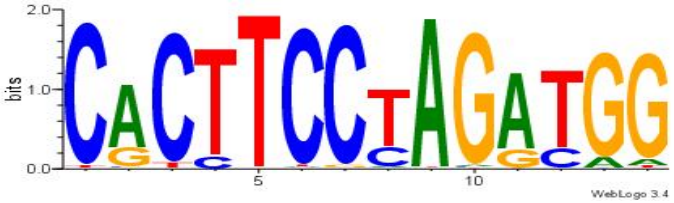

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

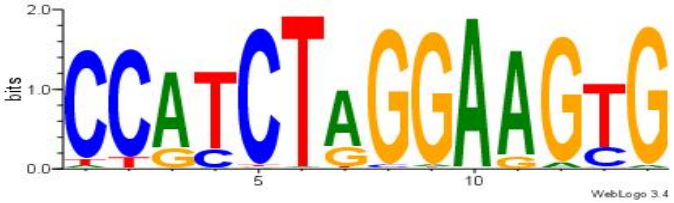

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0812711

Alignment:
GGGTGCAGGMGGGCTGAGT
-------CCACGTGG----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

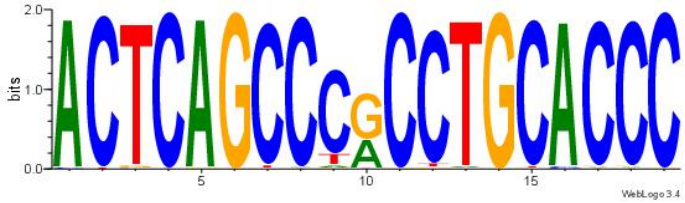

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

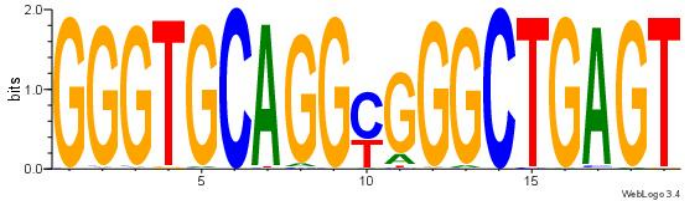

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0812908

Alignment:
GACTTCATGGAG
--CCACGTGG--

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

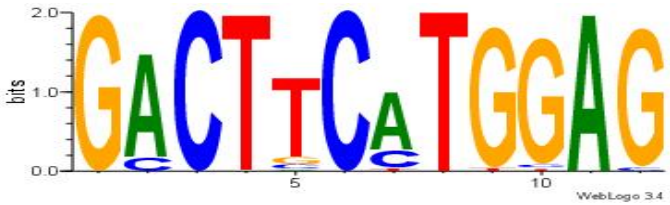

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0833022

Alignment:

```
GCTGGCCCKGGTGCTAAGC
-----CCACGTGG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

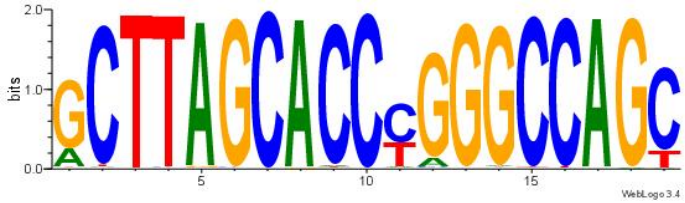

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

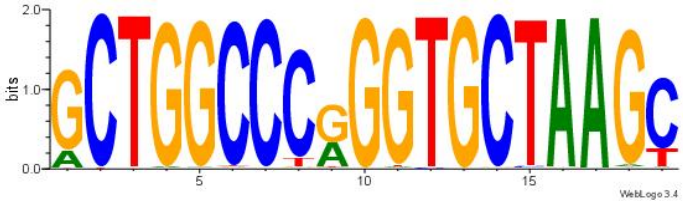

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.083855

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
------CCACGTGG------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

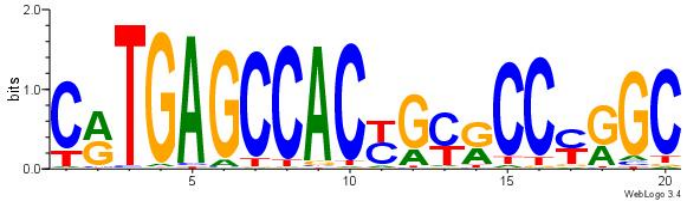

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

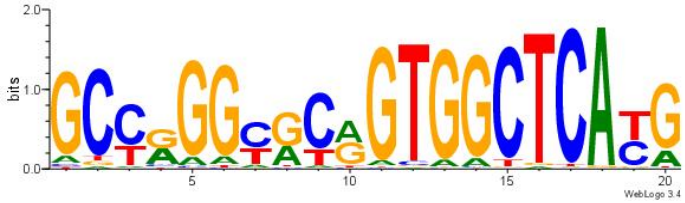

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8

Similarity score: 0.0857268

Alignment:
ACCKTCGCGGTGAGTGTTAC
----------CCACGTGG--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

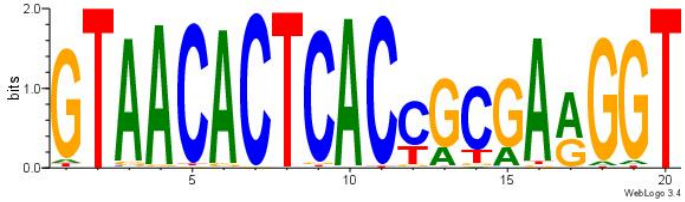

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

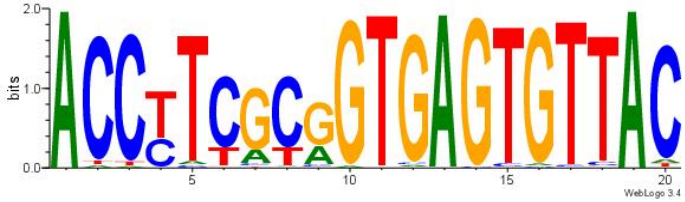

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 8
Similarity score: 0.0864122

Alignment:
GCCKCCCCGTCCGGGAGGGA
--CCACGTGG----------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

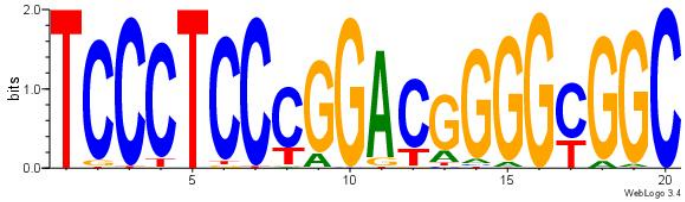

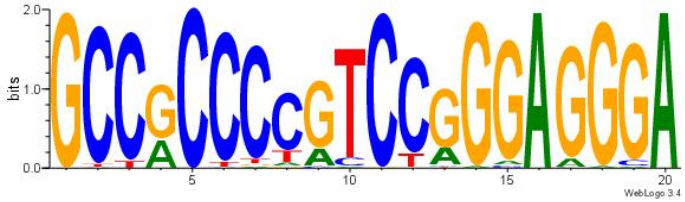

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.087839

Alignment:

```
CACCAGGAGATTATATCCCR
--CCACGTGG----------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

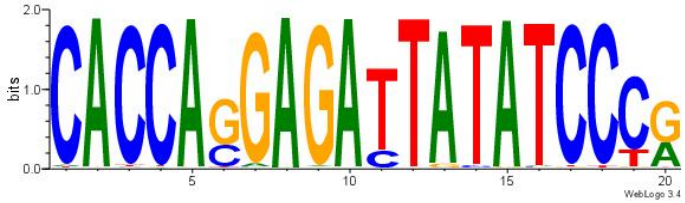

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

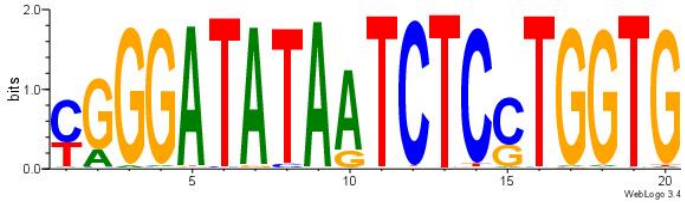

Dataset #: 1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0882211

Alignment:

```
CCGCTGCACTGTGGGAGCCC
------CCACGTGG------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

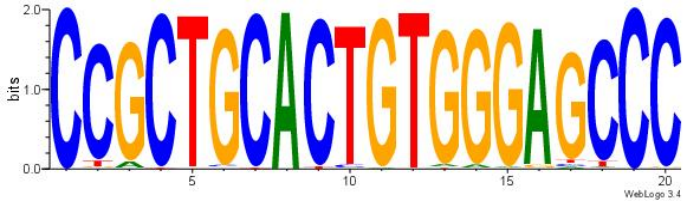

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

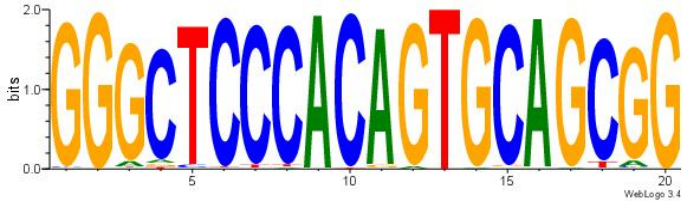

Dataset #:	1
Motif ID:	90
Motif name:	Motif 90
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8

Similarity score: 0.0884381

Alignment:
CCCCATTGCY
--CCACGTGG

Original motif Consensus sequence: CCCCATTGCY

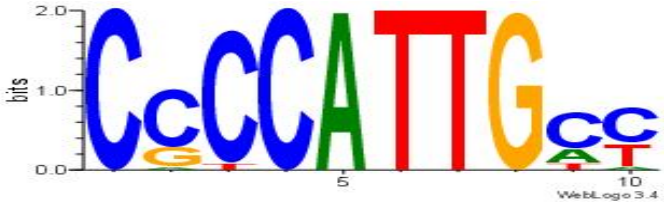

Reverse complement motif Consensus sequence: KGCAATGGGG

Dataset #: 1
Motif ID: 200
Motif name: Motif 200
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 8
Similarity score: 0.088595

Alignment:
ACCCCGTCTGGGA
----CCACGTGG-

Original motif Consensus sequence: ACCCCGTCTGGGA

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

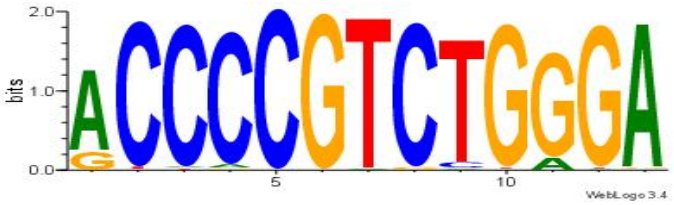

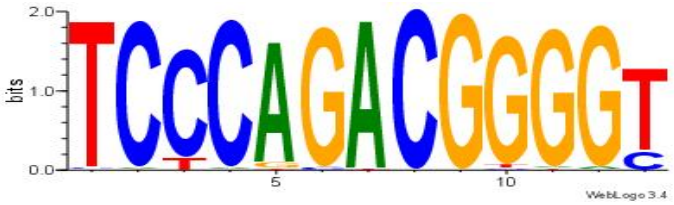

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0888919

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-CCACGTGG----------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

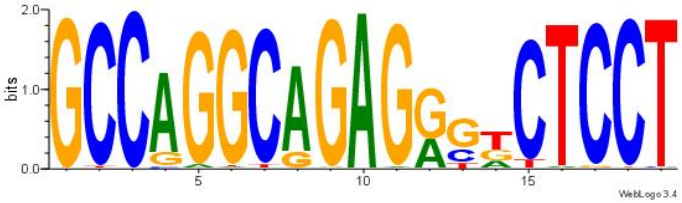

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

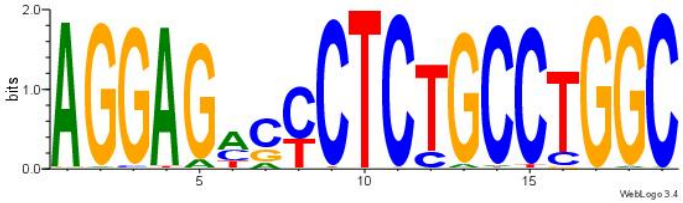

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0890655

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--------CCACGTGG----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

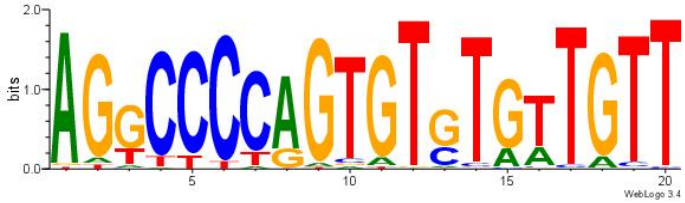

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

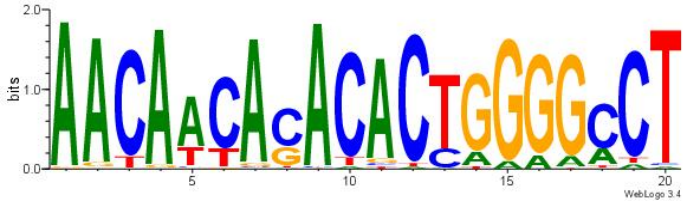

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8

Similarity score: 0.089104

Alignment:
CTCARGTGATCCTCC
------CCACGTGG-

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

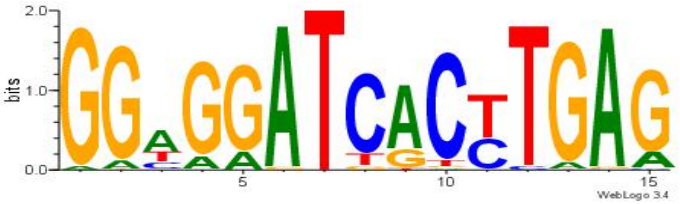

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 8
Similarity score: 0.0901495

Alignment:
ATACAATGGGGGTACAGRC
---CCACGTGG--------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

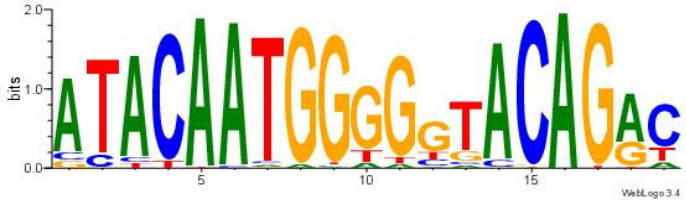

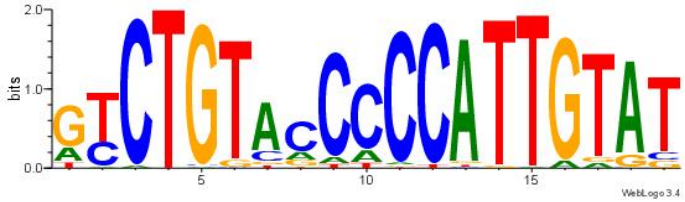

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0904162

Alignment:

```
AATAAACATGG
---CCACGTGG
```

Original motif Consensus sequence: AATAAACATGG

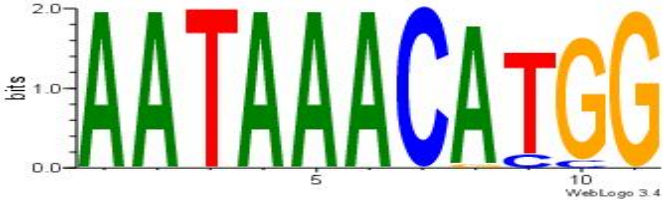

Reverse complement motif Consensus sequence: CCATGTTTATT

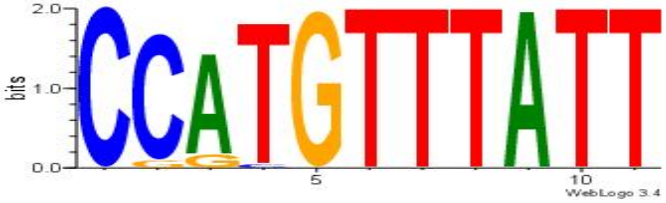

Dataset #:	1
Motif ID:	331

Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0904457

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-CCACGTGG-----------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

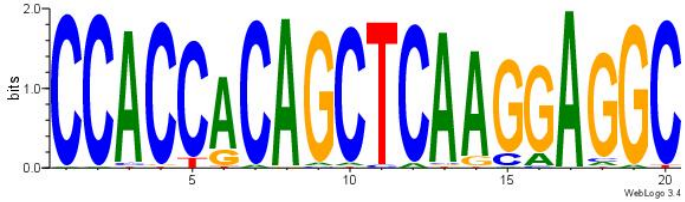

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

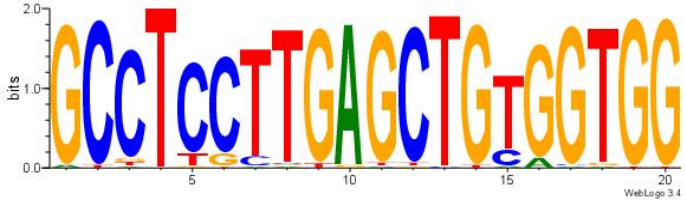

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0907271

Alignment:
AGACCAGCCTGGCCAAC
-----CCACGTGG----

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

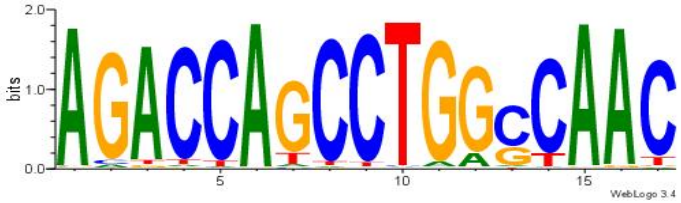

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

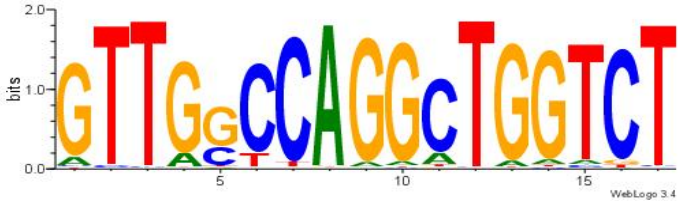

Dataset #:	1
Motif ID:	71
Motif name:	Motif 71
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0909097

Alignment:
AGCACTTTG
CCACGTGG-

Original motif Consensus sequence: AGCACTTTG

Reverse complement motif Consensus sequence: CAAAGTGCT

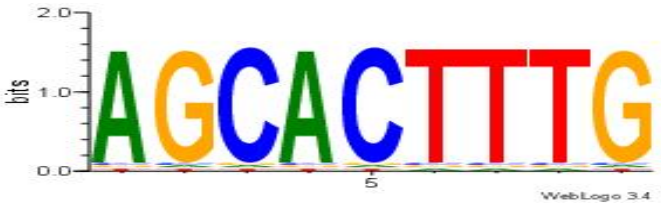

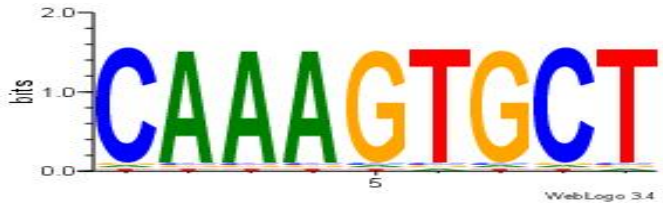

Dataset #:	1
Motif ID:	360
Motif name:	Motif 360
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0909097

Alignment:

```
CAATGGGGTG
CCACGTGG--
```

Original motif Consensus sequence: CAATGGGGTG

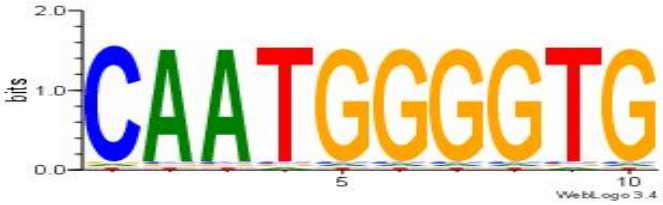

Reverse complement motif Consensus sequence: CACCCCATTG

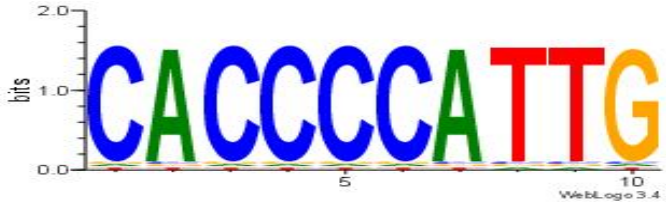

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0911699

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-------CCACGTGG-----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

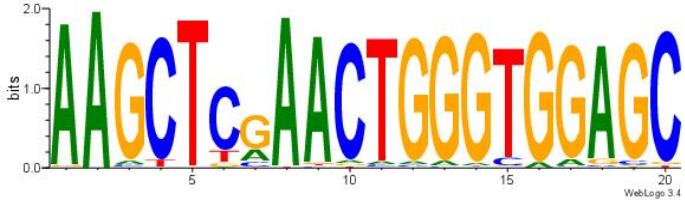

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

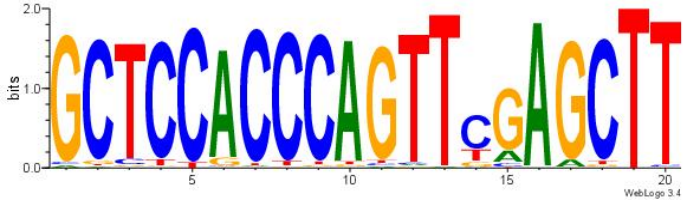

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0916921

Alignment:
AGCGACATGTGC
--CCACGTGG--

Original motif Consensus sequence: AGCGACATGTGC

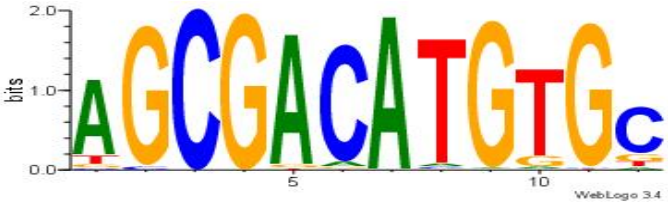

Reverse complement motif Consensus sequence: GCACATGTCGCT

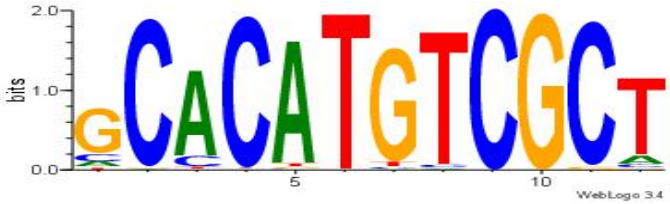

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0919962

Alignment:
GTGAGCGACGCAG
-----CCACGTGG

Original motif Consensus sequence: CTGCGTCGCTCAC

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

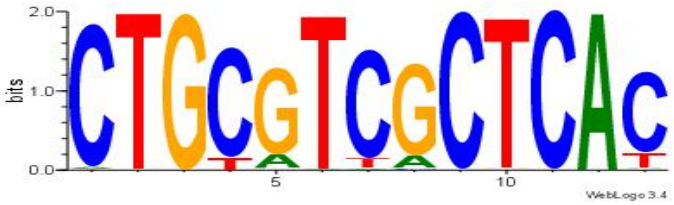

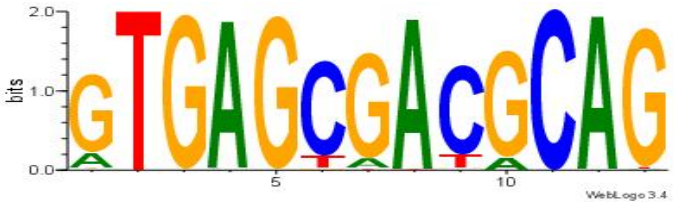

Dataset #:	1
Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.092263

Alignment:

```
GAGAACGTAG
CCACGTGG--
```

Original motif Consensus sequence: CTACGTTCTC

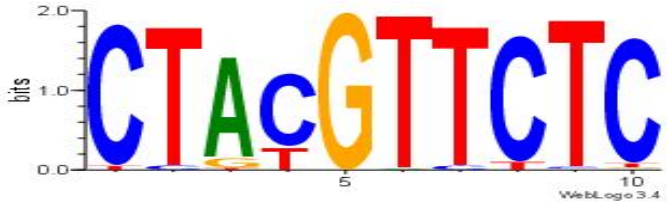

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #:	1
Motif ID:	271

Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0924215

Alignment:

```
AGGGATCTAGGTTGCR
------CCACGTGG--
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

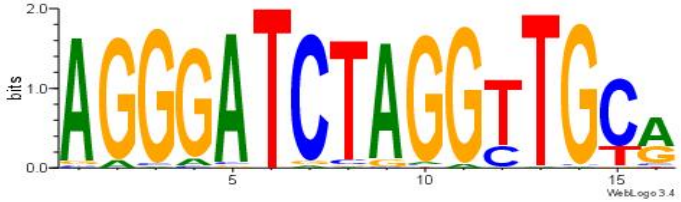

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

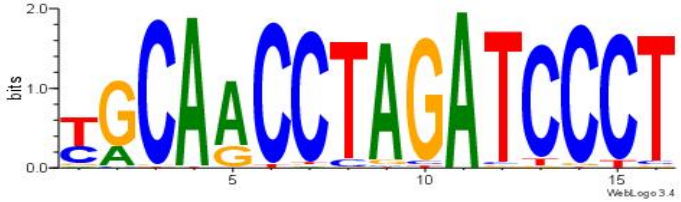

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0930653

Alignment:
GAAHCAACCKAAKTGTCCAT
----CCACGTGG--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

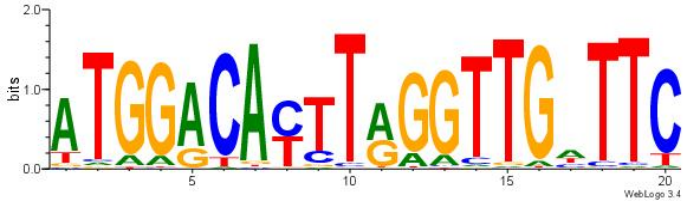

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

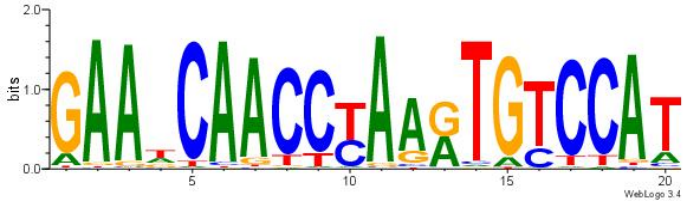

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0931752

Alignment:
GCTCTCAATTGGTCATT
----CCACGTGG-----

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence:
GCTCTCAATTGGTCATT

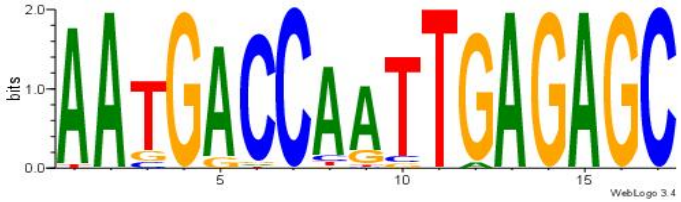

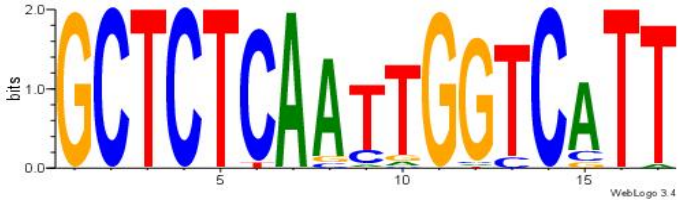

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0940159

Alignment:

```
AAGACCTTCCAGTGGGACAA
----CCACGTGG--------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

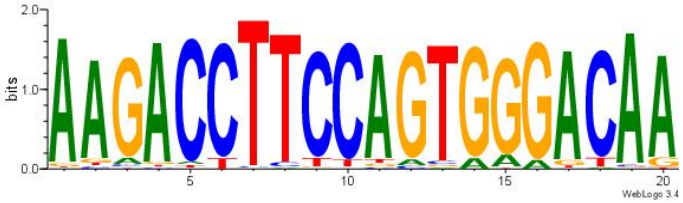

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

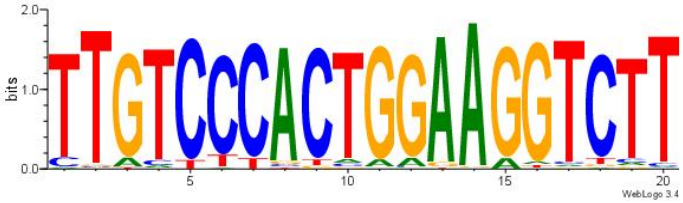

Dataset #:	1

Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0942796

Alignment:

```
GGMGCKGTGGCTC
--CCACGTGG---
```

Original motif Consensus sequence: GAGCCACYGCRCC

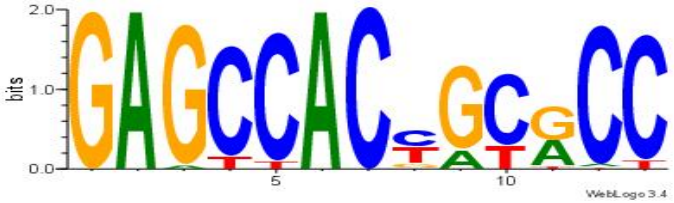

Reverse complement motif Consensus sequence: GGMGCKGTGGCT

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0943454

Alignment:
GCACATGTAYCCYAGAACTT
CCACGTGG----------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

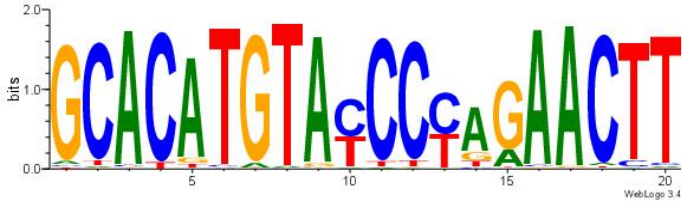

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

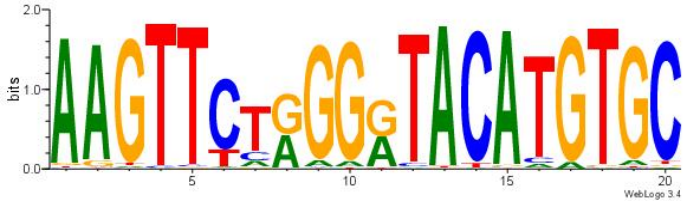

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.094483

Alignment:
GGTGCCAGCTGT
----CCACGTGG

Original motif Consensus sequence: ACAGCTGGCACC

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

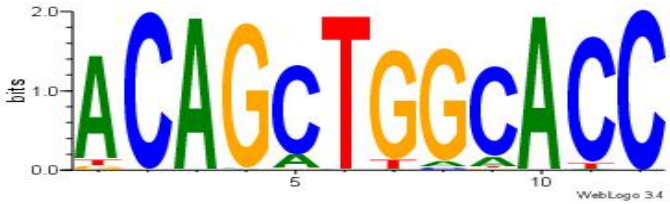

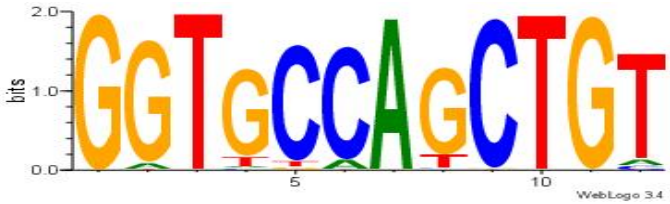

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0947204

Alignment:

```
ACTGTCTTCCACCTCCACAT
----CCACGTGG--------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

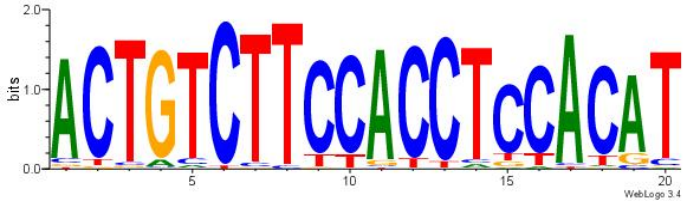

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

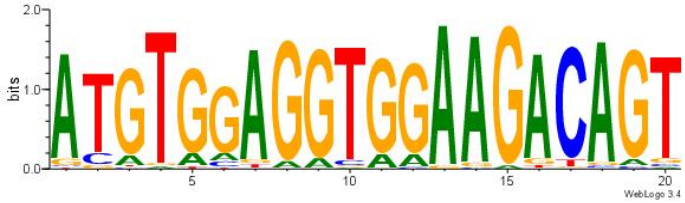

Dataset #: 1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0950399

Alignment:

```
AGAAAGGCATGTGAAAA
------CCACGTGG---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

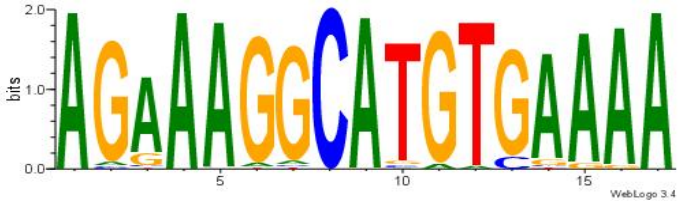

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

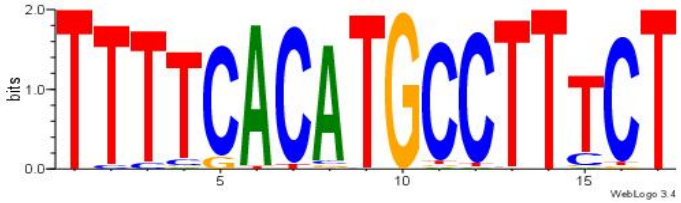

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8

Similarity score: 0.0953353

Alignment:
CCGCACTCGGAGCRG
-----CCACGTGG--

Original motif Consensus sequence: CCGCACTCGGAGCRG

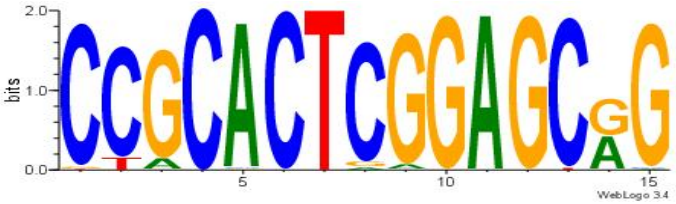

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

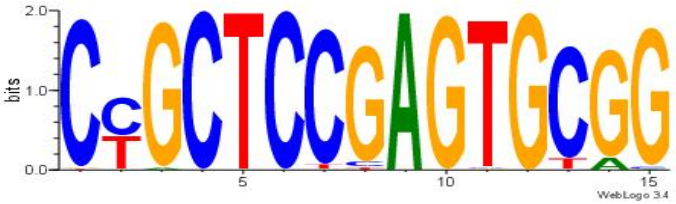

Dataset #: 1
Motif ID: 132
Motif name: Motif 132
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 8
Similarity score: 0.0955857

Alignment:
CAAGATGGCGGC
----CCACGTGG

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

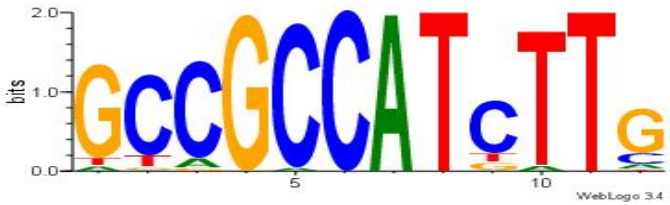

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.095698

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-------CCACGTGG-----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

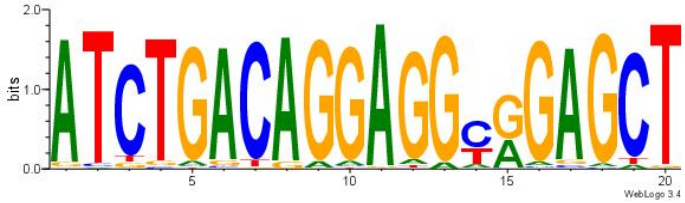

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

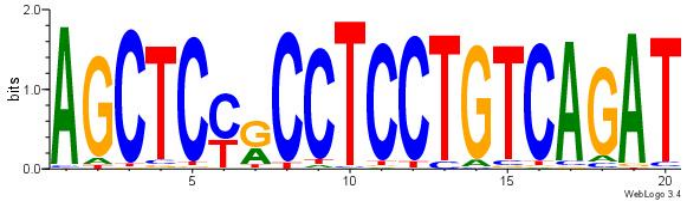

Dataset #:	1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0960612

Alignment:

```
CATTTCCAWCTGAGGTAC
-----CCACGTGG-----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

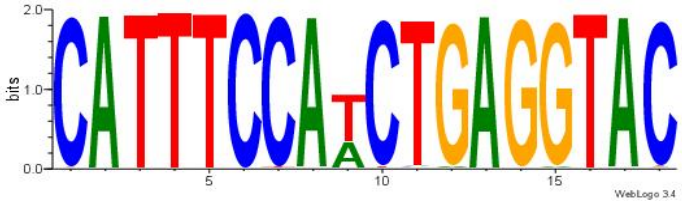

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

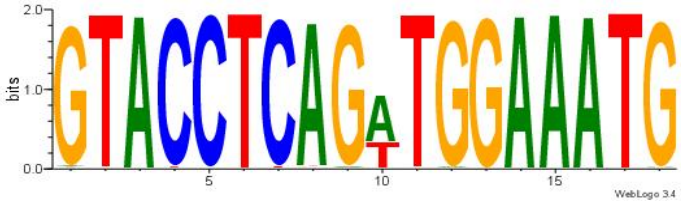

Dataset #: 1 Motif ID: 328 Motif name: Motif 328

Original motif Consensus sequence: GATACAAAATCAATGTR

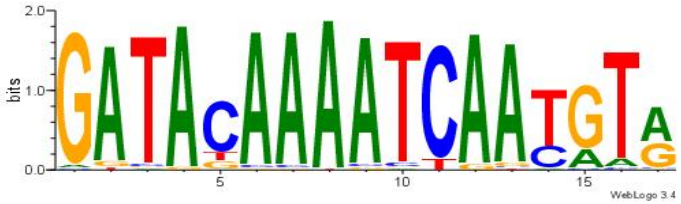

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

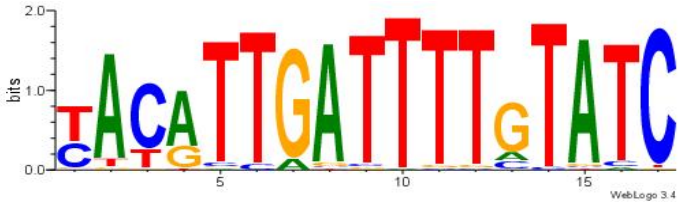

Best Matches for Significant Motif ID 328 (Highest to Lowest)

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0460385

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

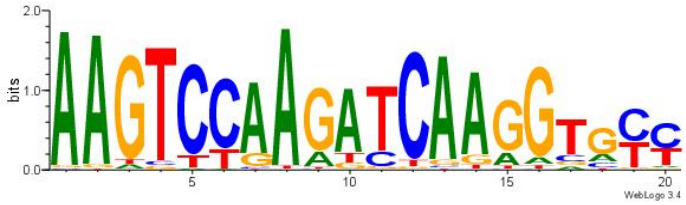

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

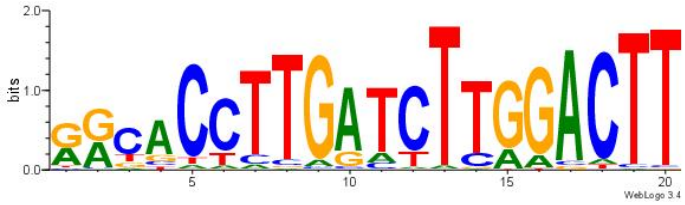

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0587823

Alignment:
CACCAGGAGATTATATCCCR
---KACATTGATTTTGTATC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

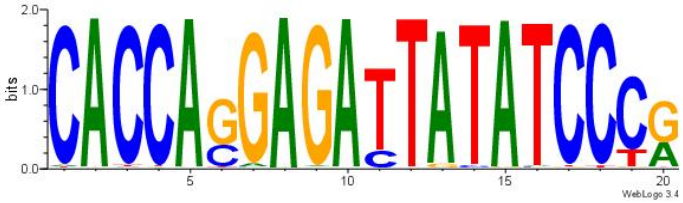

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

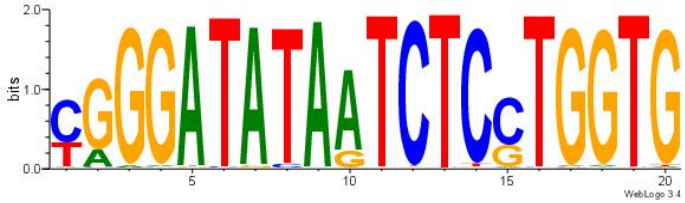

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0635566

Alignment:
GAAACTGCTTTGTGATGTGT
KACATTGATTTTGTATC---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

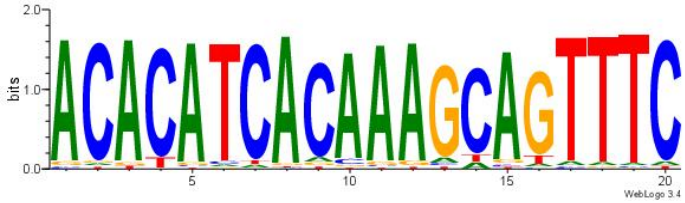

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

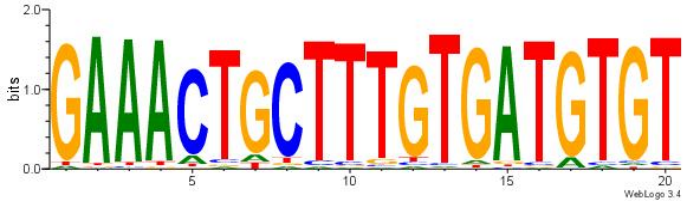

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0636486

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

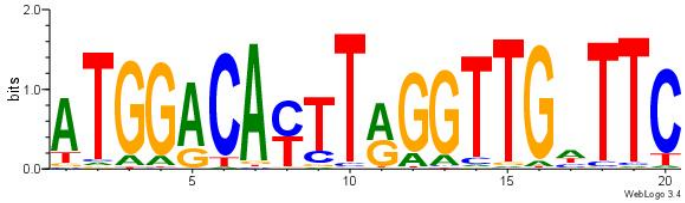

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

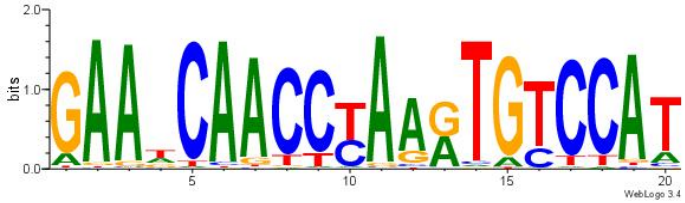

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0643479

Alignment:

```
GAAATTGACTTCCTCCT
KACATTGATTTTGTATC
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

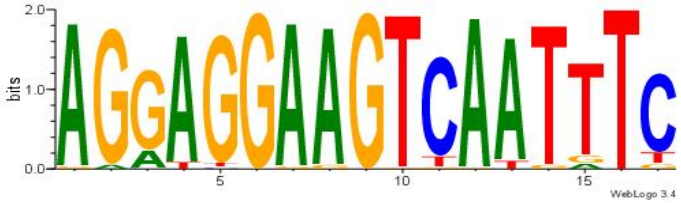

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

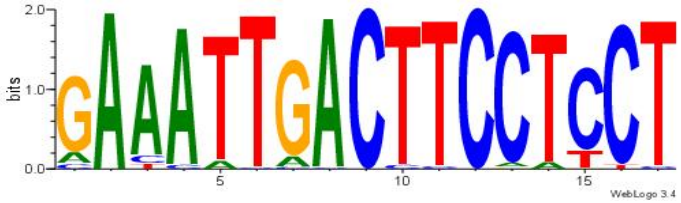

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.0652979

Alignment:
GTGTCKGGAGTTTGTTCCTT
-KACATTGATTTTGTATC--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

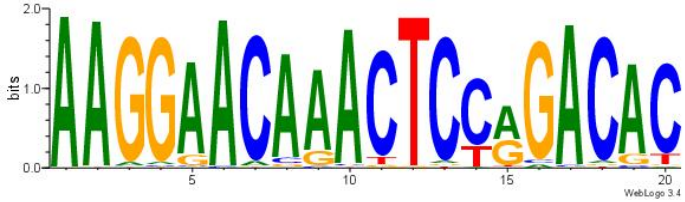

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

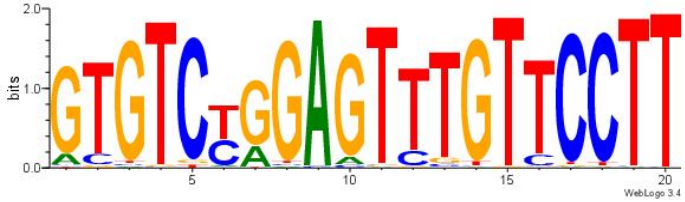

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0655394

Alignment:
TGATACCCAGGCAAACAG
-GATACAAAATCAATGTR

Original motif Consensus sequence: TGATACCCAGGCAAACAG

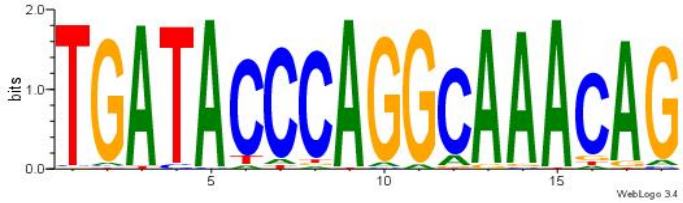

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

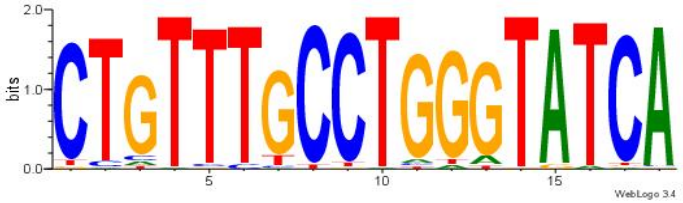

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0727537

Alignment:

```
AAAGCTGGAGCTATTATCTA
-KACATTGATTTTGTATC--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

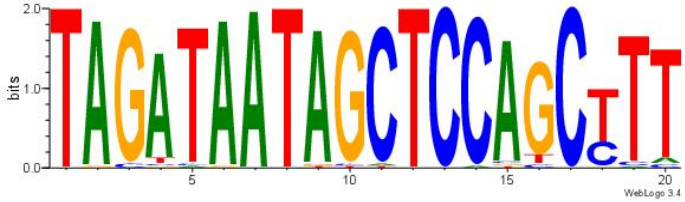

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

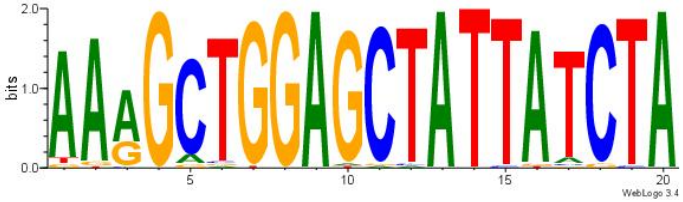

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0753476

Alignment:

```
ATTGGTGTATTTACAATCCC
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

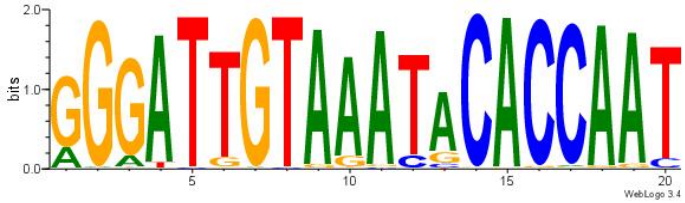

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.0764205

Alignment:
CAGTCTGTGTCTTTTAATT
--KACATTGATTTTGTATC

Original motif Consensus sequence: AATTAAAAGACACAGACTG

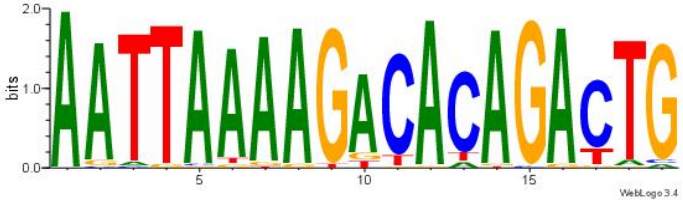

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

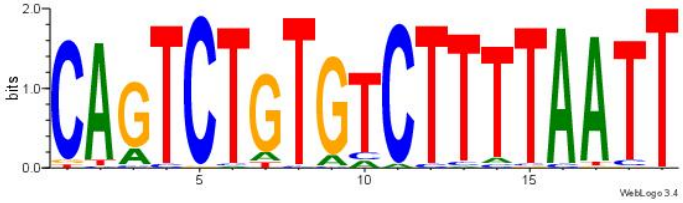

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.076981

Alignment:
CTCAGTGTTAATCTCCTGTC
KACATTGATTTTGTATC---

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

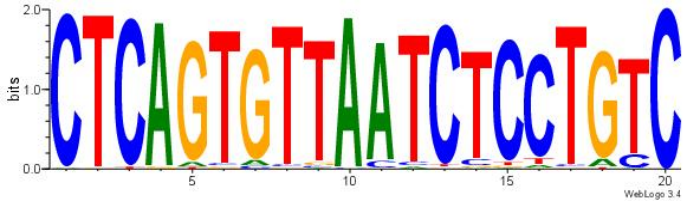

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

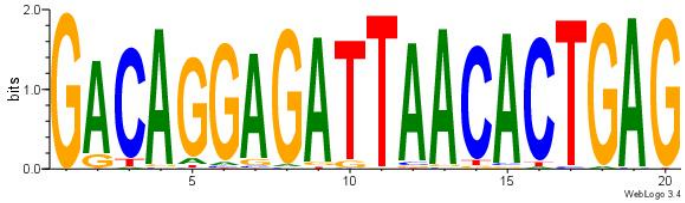

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0772317

Alignment:

```
GAATACCTCCTGAAGGACCT
--GATACAAAATCAATGTR-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

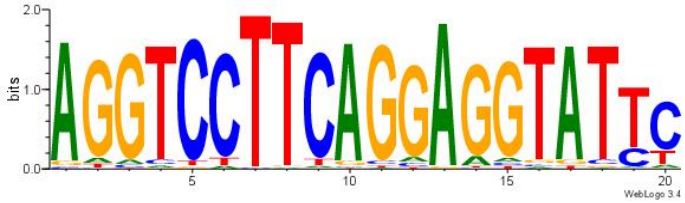

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

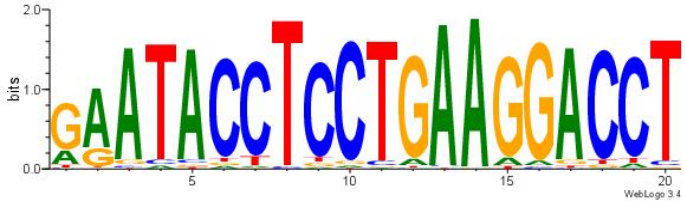

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0774296

Alignment:

```
ATGTAACCAAAYACCACCTG
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

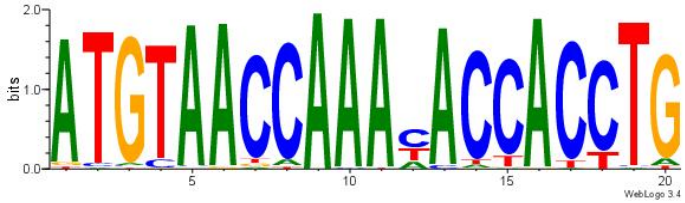

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

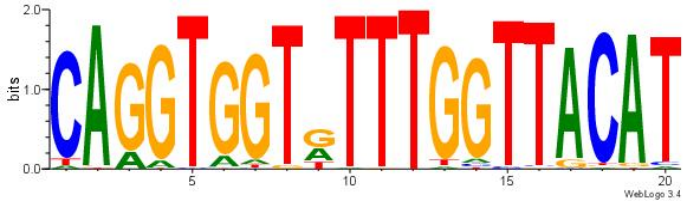

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.0781428

Alignment:
AGAGCCAAATCATGARTGAA
---GATACAAAATCAATGTR

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

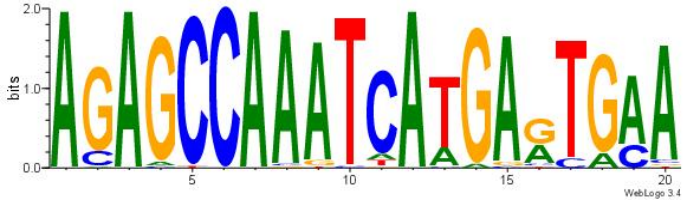

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

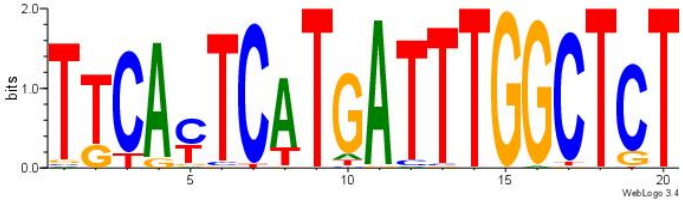

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0786855

Alignment:
GTCTCWAMAAAAAAWAMAAA
---GATACAAAATCAATGTR

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

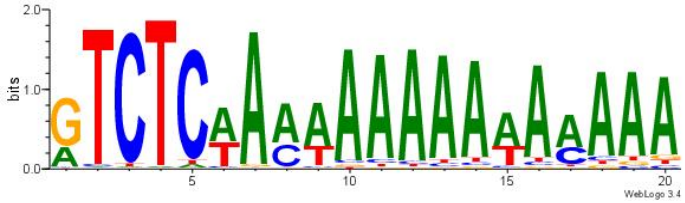

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

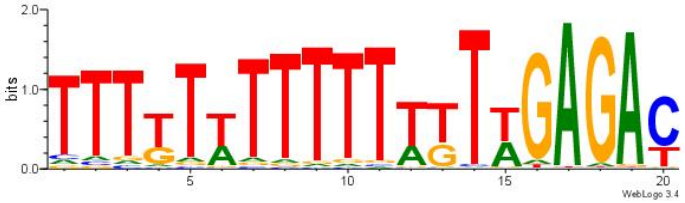

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0786856

Alignment:

```
TAATTTTATGTGTCAACTTG
KACATTGATTTTGTATC---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

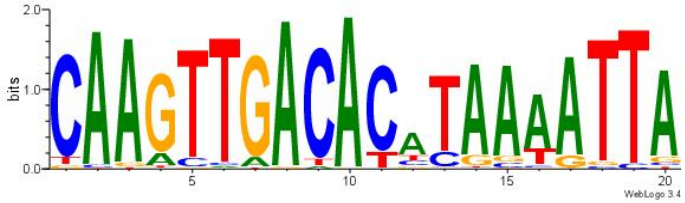

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

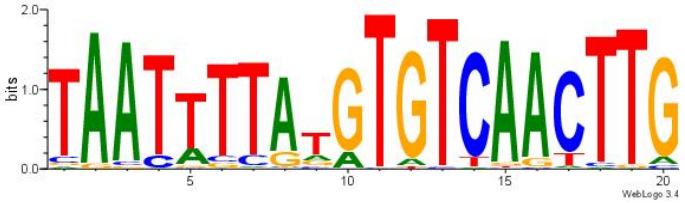

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0817549

Alignment:

```
AGTAGGTGCTCARTAAATRB
GATACAAAATCAATGTR---
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

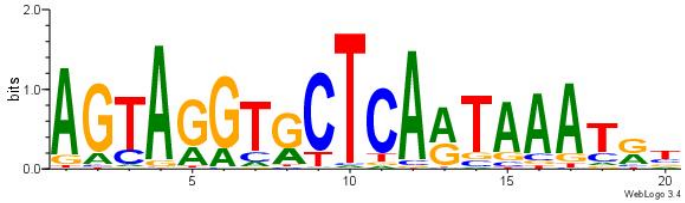

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

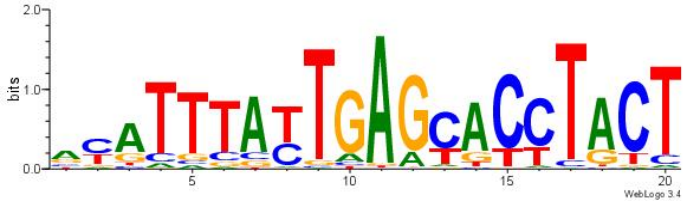

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.0827013

Alignment:
TYTGTCMTTTTGTGACTGGC
---KACATTGATTTTGTATC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

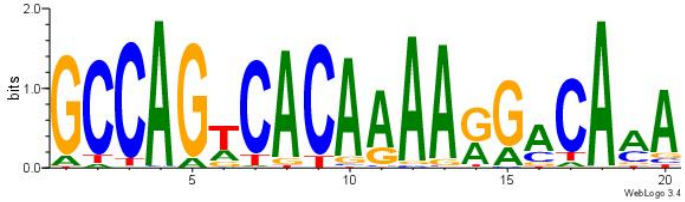

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

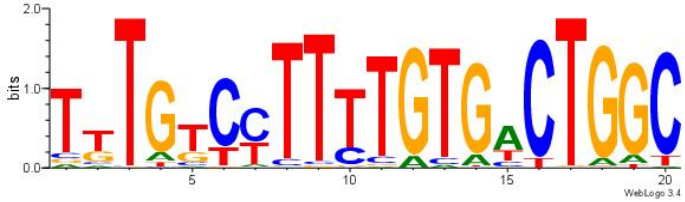

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.0836869

Alignment:
TGTGTGTGTGTKTGTGTGT
-KACATTGATTTTGTATC-

Original motif Consensus sequence: ACACACAYACACACACACA

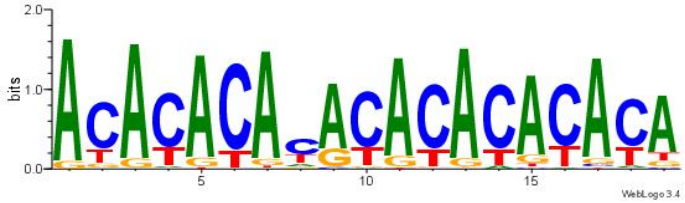

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

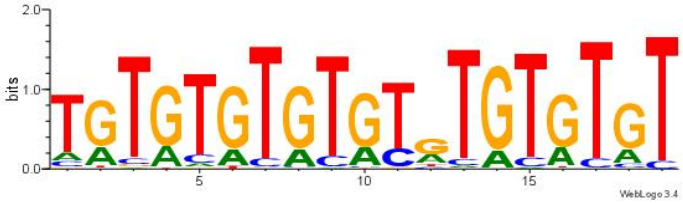

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0854292

Alignment:

```
GCAAAKGACATGATYTCATT
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

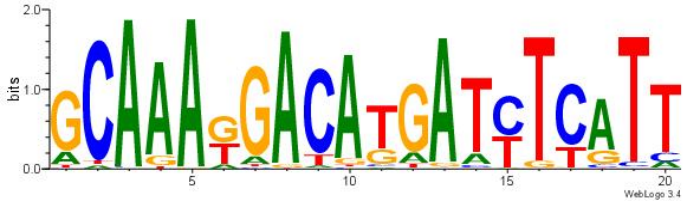

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

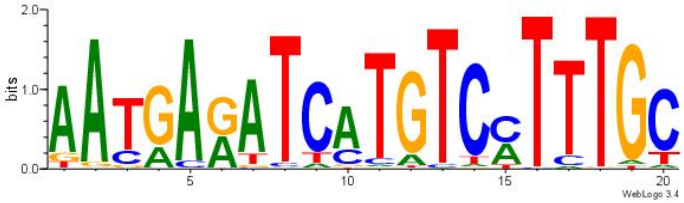

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0856334

Alignment:

```
AGTGACCCGATTTTCCAGGT
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

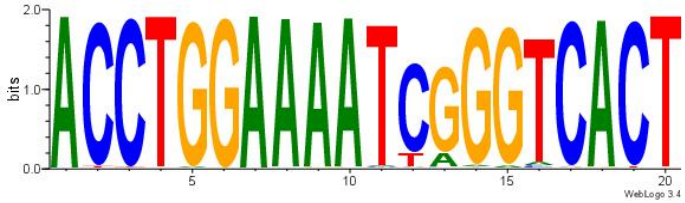

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

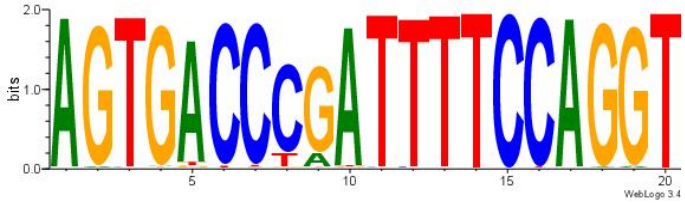

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.0858425

Alignment:
GGGAGGGATATATTAGC
KACATTGATTTTGTATC

Original motif Consensus sequence: GGGAGGGATATATTAGC

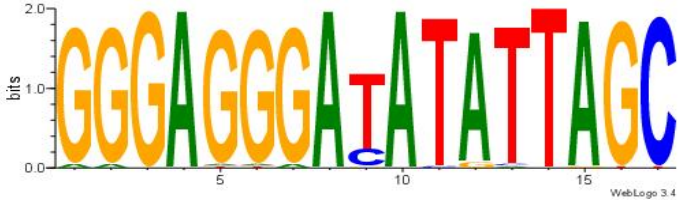

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

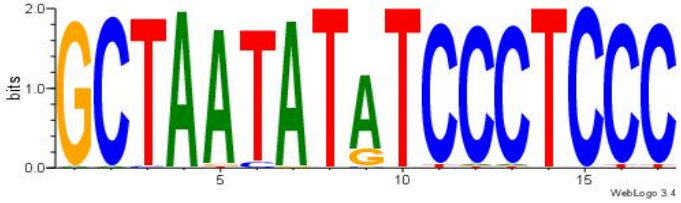

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.0858497

Alignment:
CTAGACATAAAGGTTCTCCA
---GATACAAAATCAATGTR

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

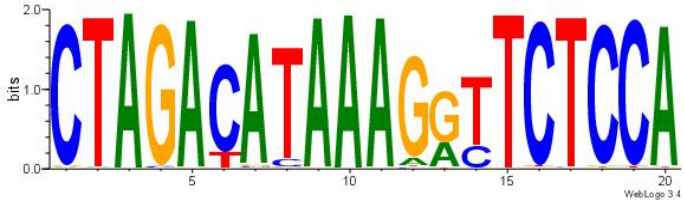

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

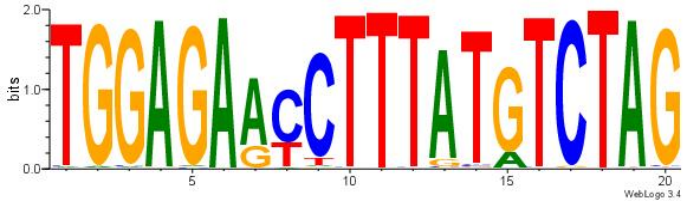

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0875595

Alignment:

```
CAACATGGATGRARCTGGAG
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

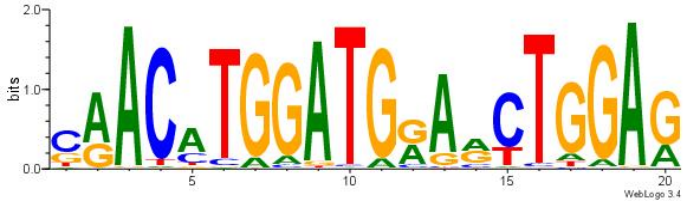

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

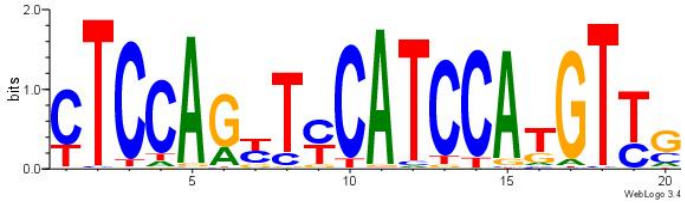

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0876868

Alignment:

```
AAGTTCTKGGKTACATGTGC
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

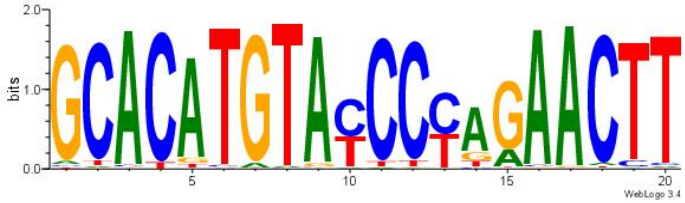

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

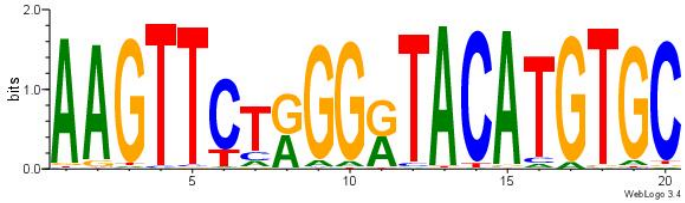

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.0878904

Alignment:
CATTAGATTCTCATAGGA
-GATACAAAATCAATGTR

Original motif Consensus sequence: CATTAGATTCTCATAGGA

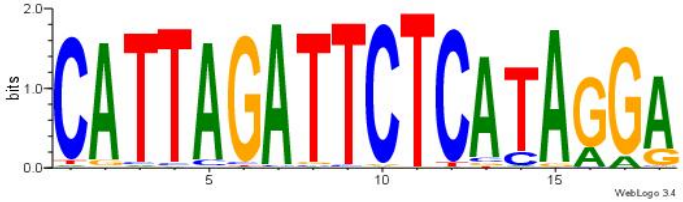

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

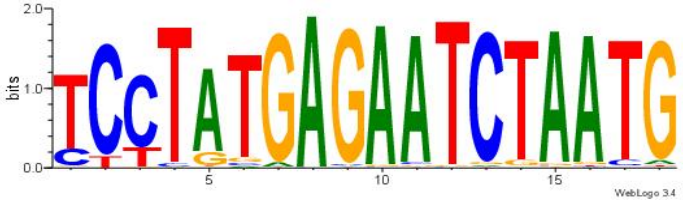

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.0879037

Alignment:
GAGAGAGAGAGAGAGAGAGA
GATACAAAATCAATGTR---

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

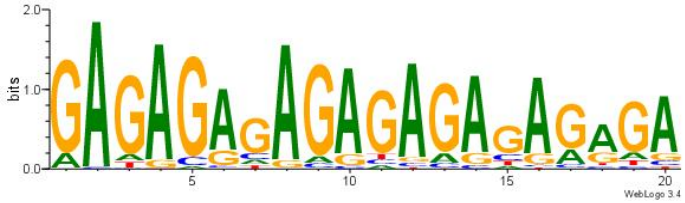

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

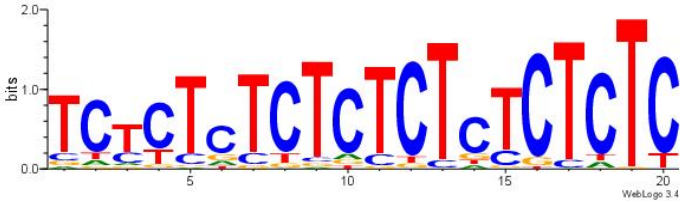

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0880864

Alignment:

```
AAAMAMMKMATGTTCTCACT
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

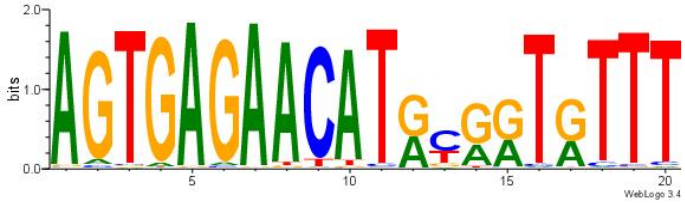

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

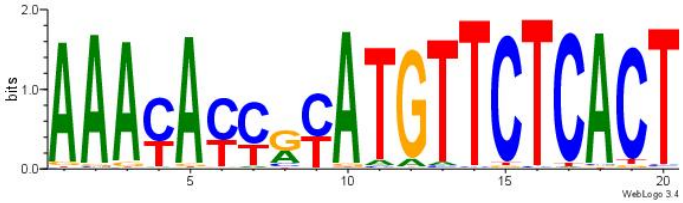

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0881708

Alignment:

```
GTTGTGAGGATTAAATGAG
GATACAAAATCAATGTR--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

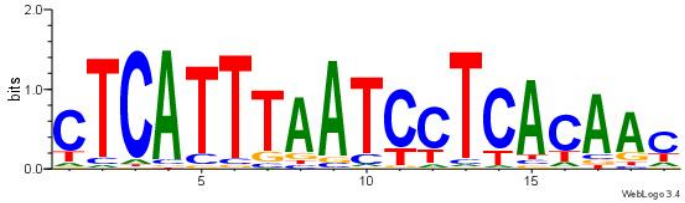

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

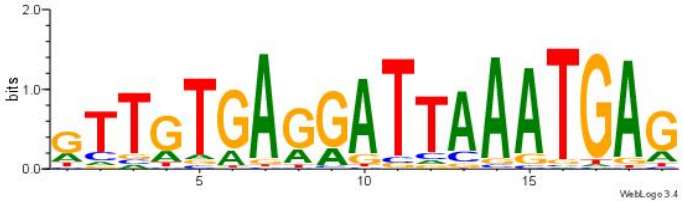

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.0886777

Alignment:
CCCATGCAAGTCYRAAATCC
--GATACAAAATCAATGTR-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

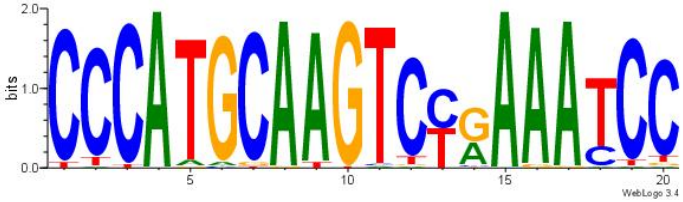

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

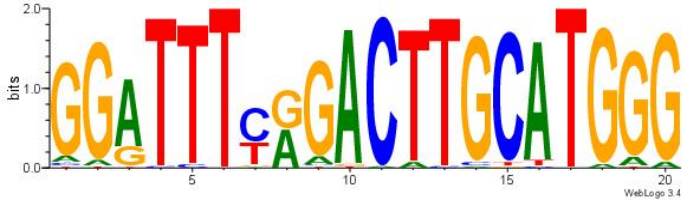

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0890404

Alignment:
AGGTTTGTTACATAGGTAWA
KACATTGATTTTGTATC---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

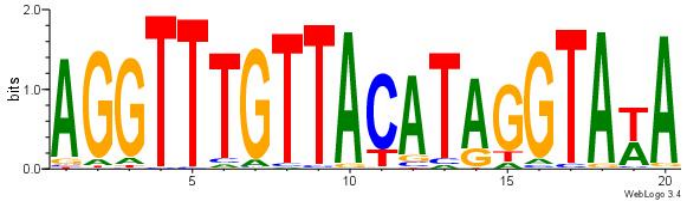

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

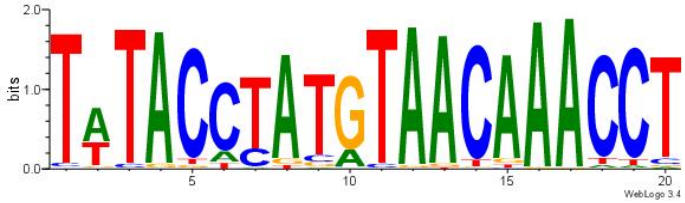

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0891319

Alignment:

```
AGGAACAGCTCCRGTCTAC
-GATACAAAATCAATGTR-
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

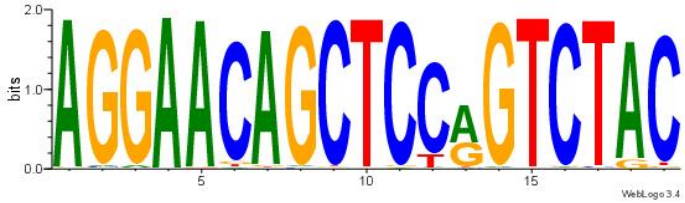

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

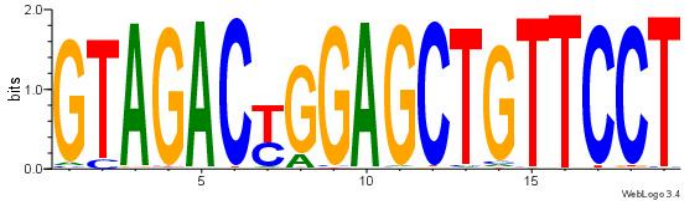

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.089751

Alignment:

```
TAAAAGACTACAWATTGGGT
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

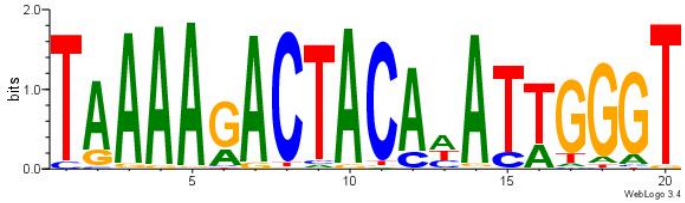

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

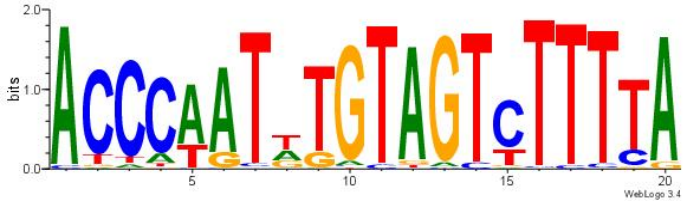

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.090653

Alignment:
GGCACTGCTGGGGGACCCAG
KACATTGATTTTGTATC---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

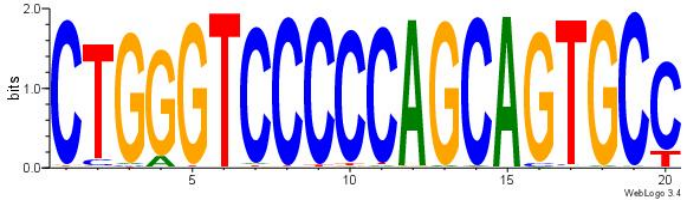

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

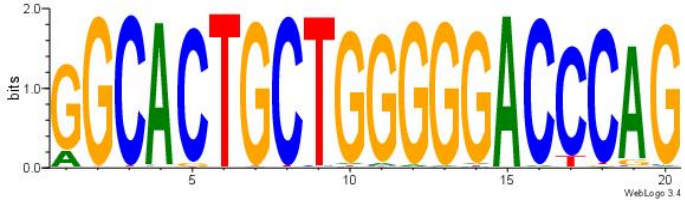

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0908034

Alignment:
CGGCTTCATTCTTGAAGTC
GATACAAAATCAATGTR--

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

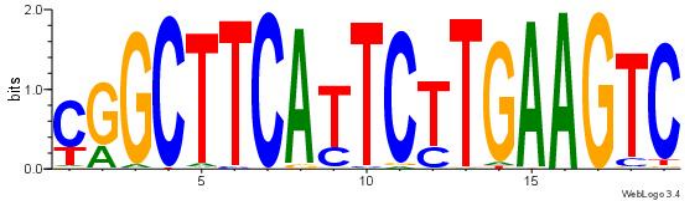

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0913045

Alignment:

```
AGAGCTCTGGCTGGCATCT
-KACATTGATTTTGTATC-
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

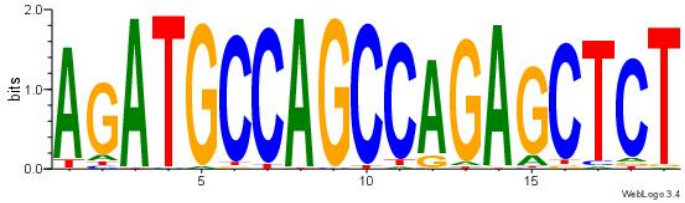

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

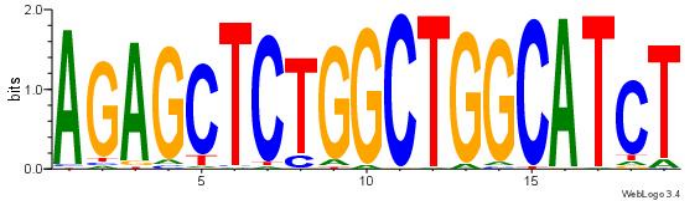

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0926416

Alignment:

```
ATGGCTGAATAKTATTCCAT
-KACATTGATTTTGTATC--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

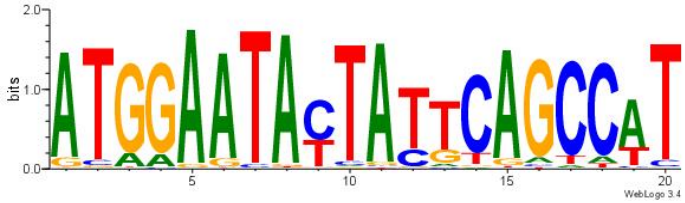

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

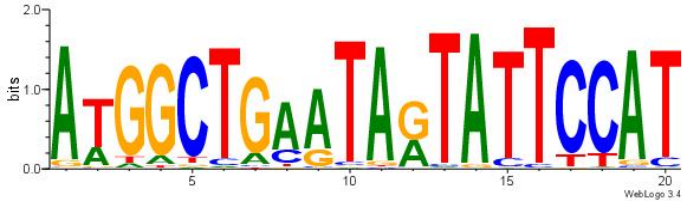

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.0928836

Alignment:
CTATTGTGAATARTGCTGC
-KACATTGATTTTGTATC-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

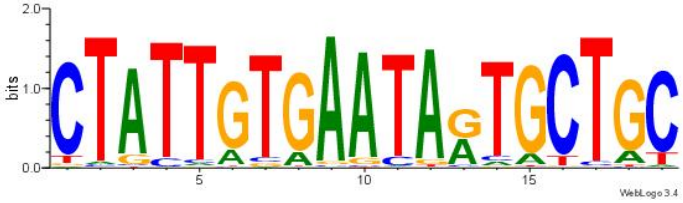

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

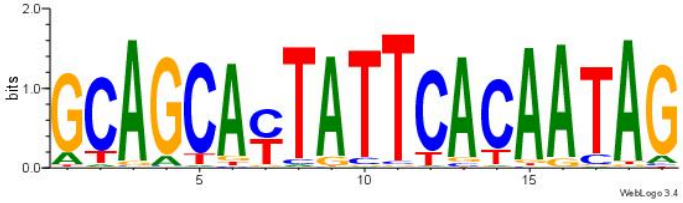

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.0930877

Alignment:
CCACCACAGCTCAAGGAGGC
-GATACAAAATCAATGTR--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

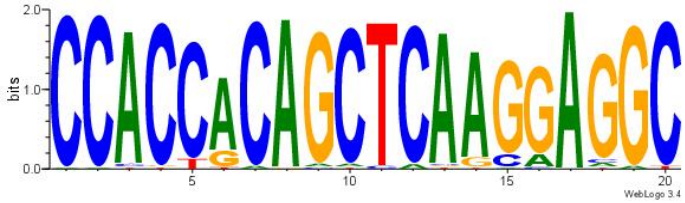

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

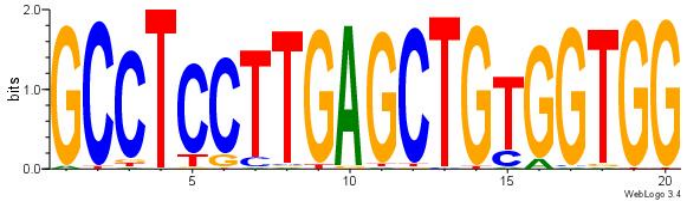

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0935983

Alignment:

```
AAAATCACAAGCATTCCTAT
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

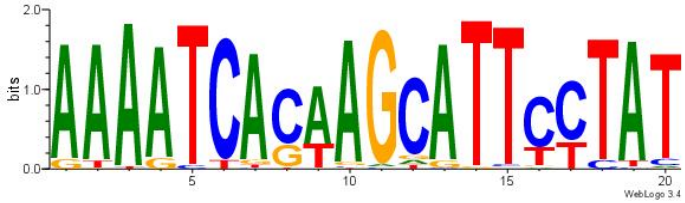

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

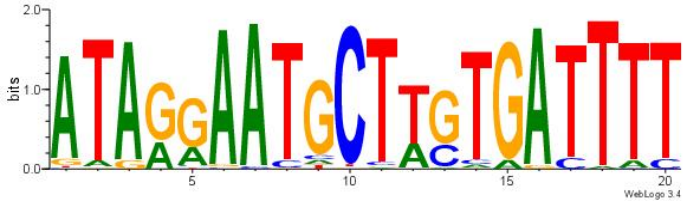

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0939538

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

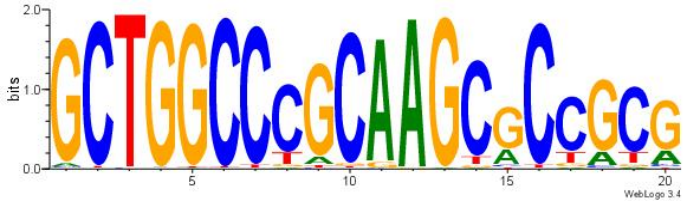

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

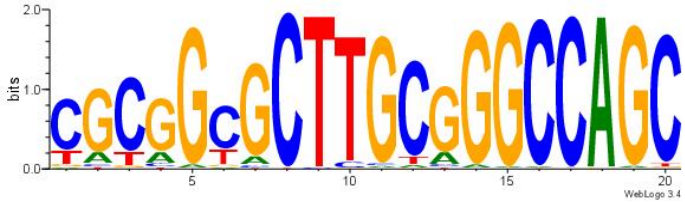

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.0940488

Alignment:
GTAACACTCACCGCGARGGT
GATACAAAATCAATGTR---

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

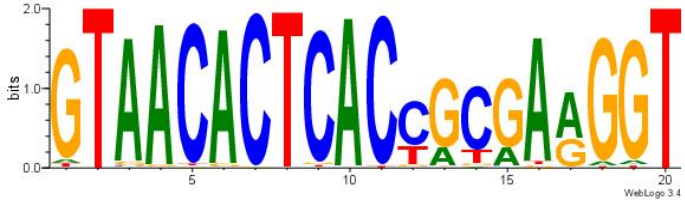

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

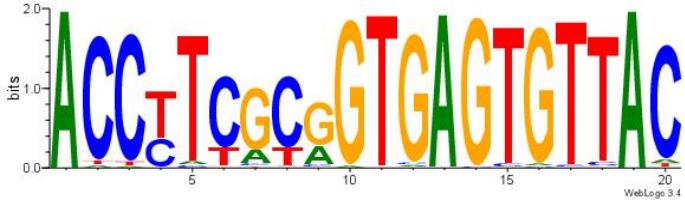

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.0947252

Alignment:
ATACAATGGGGGTACAGRC
-KACATTGATTTTGTATC-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

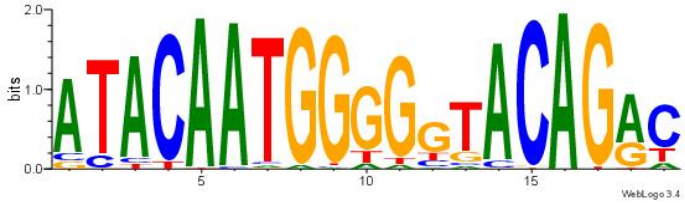

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

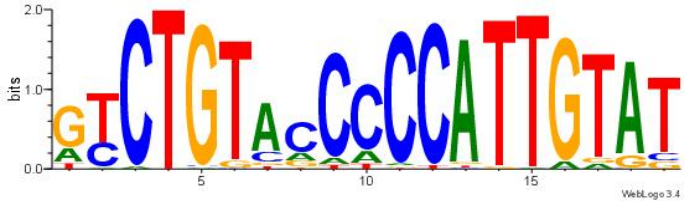

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0951148

Alignment:

```
ATCTCASAAATCACCACTA
-GATACAAAATCAATGTR-
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

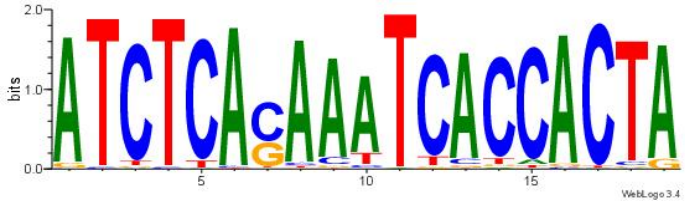

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

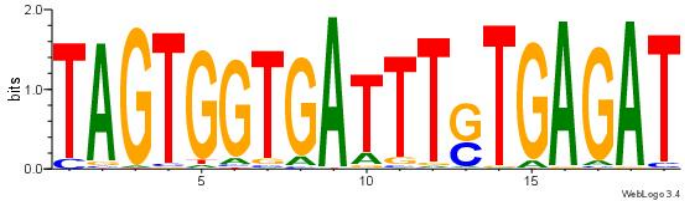

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0951494

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--GATACAAAATCAATGTR-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

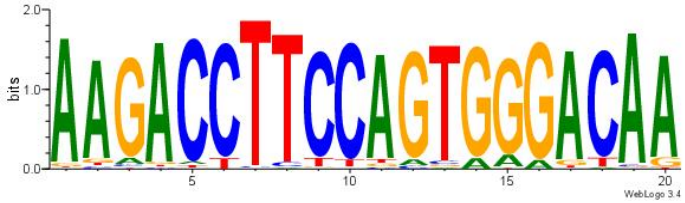

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

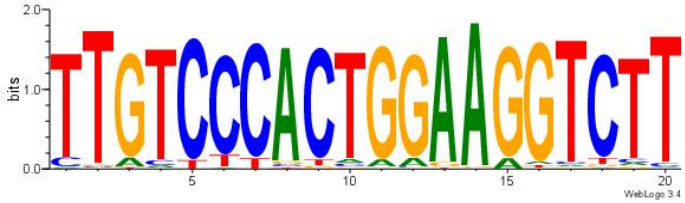

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.0957661

Alignment:
GGGTCAGGGAGTTCCCTTTC
--KACATTGATTTTGTATC-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

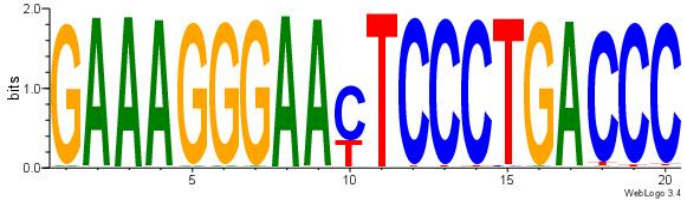

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

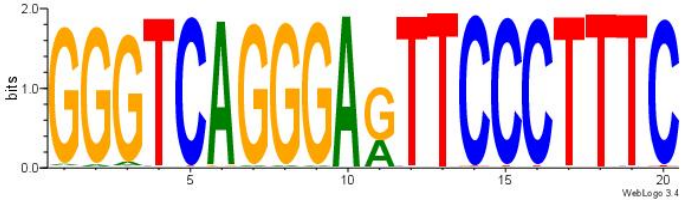

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.0964863

Alignment:
TGAGKCAATTAAACCTCTT
--GATACAAAATCAATGTR

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

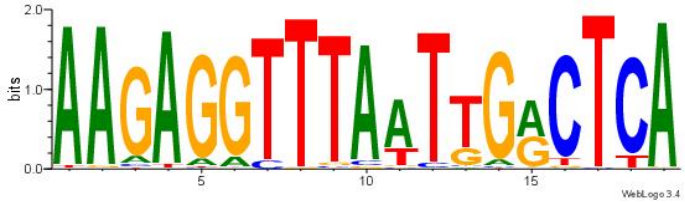

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

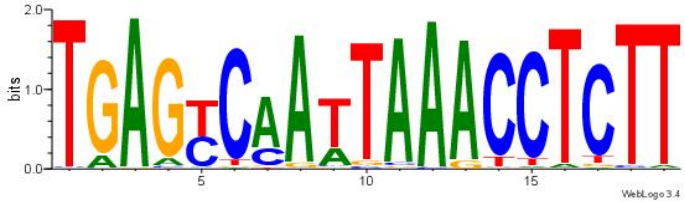

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.097176

Alignment:

```
AAAAGTCCACAGTCCAAAGT
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

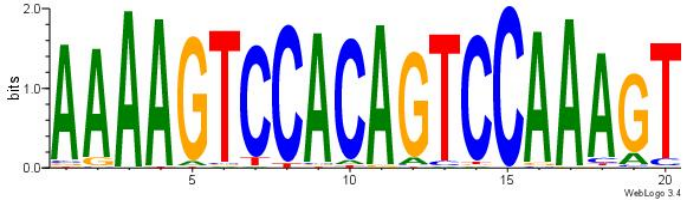

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

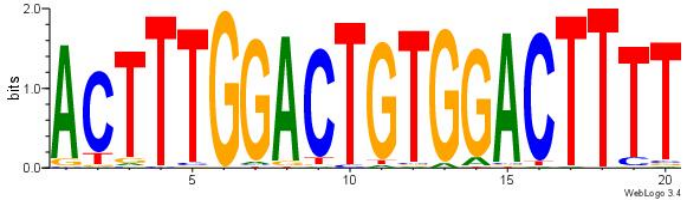

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0972061

Alignment:

```
CTGGCCCTCAATGGTTAAAC
---KACATTGATTTTGTATC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

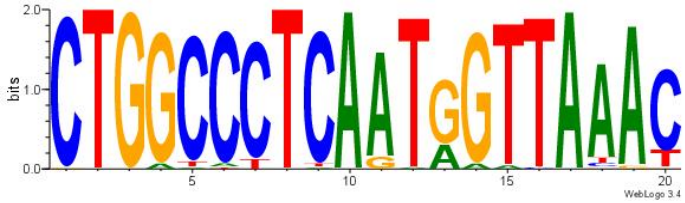

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

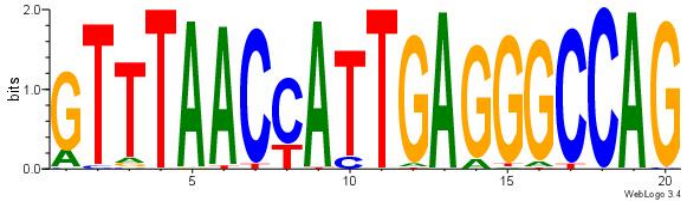

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.0974303

Alignment:
GTKTMTATMTACCACATTTT
GATACAAAATCAATGTR---

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

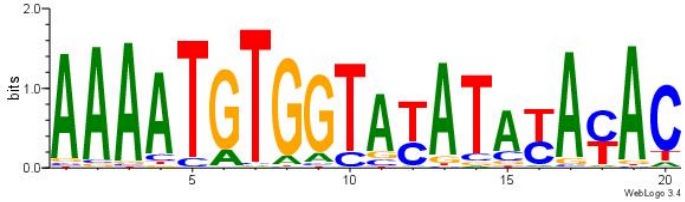

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

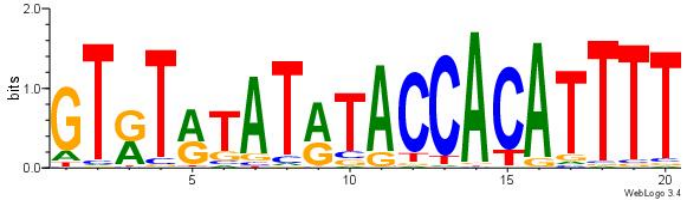

Dataset #: 1 Motif ID: 5 Motif name: Motif 5

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Best Matches for Significant Motif ID 5 (Highest to Lowest)

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0355603

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
------CCTCRGCCTCC---
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

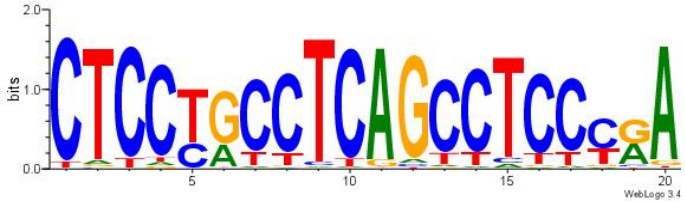

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

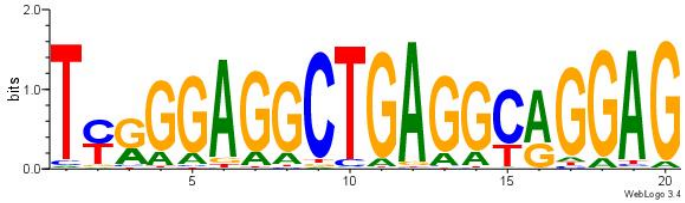

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0494199

Alignment:

GCCTCTCCCTCCACACCTCC
-CCTCRGCCTCC--------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

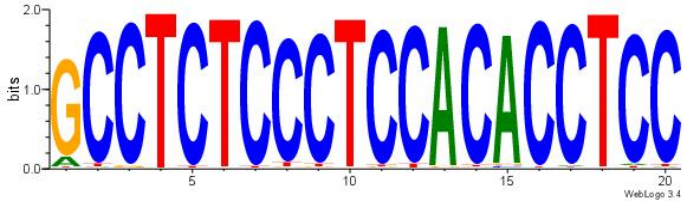

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

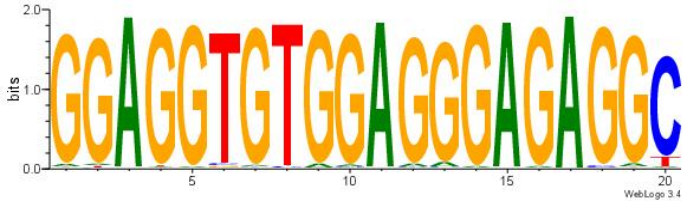

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0544617

Alignment:
AGCTCMKCCTCCTGTCAGAT
-CCTCRGCCTCC--------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

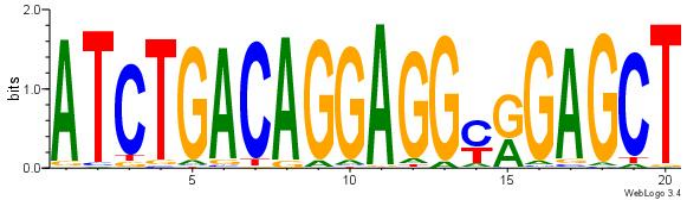

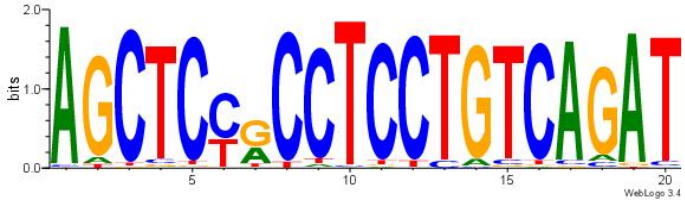

Dataset #:	1
Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0616596

Alignment:

```
AGCCTAGGCCTAC
--CCTCRGCCTCC
```

Original motif Consensus sequence: AGCCTAGGCCTAC

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

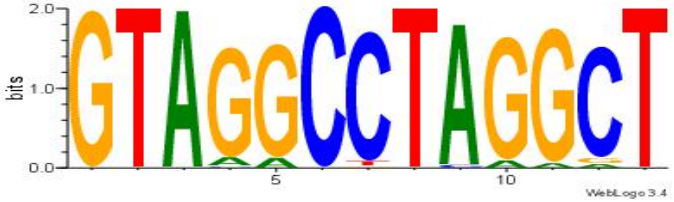

Dataset #:	1
Motif ID:	47

Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0620118

Alignment:

```
GCCTCAGTTTCCY
-CCTCRGCCTCC-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

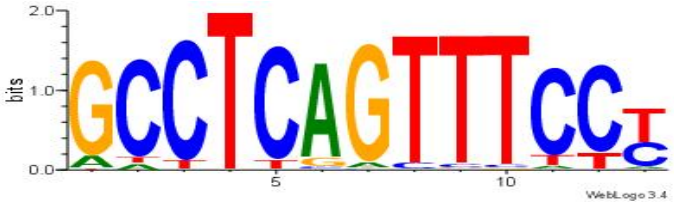

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

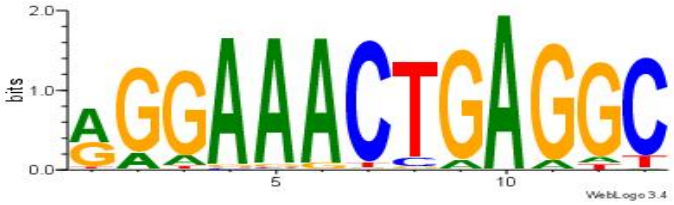

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0623031

Alignment:
GGCAATGCCTCGCCCTGCTT
-------CCTCRGCCTCC--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

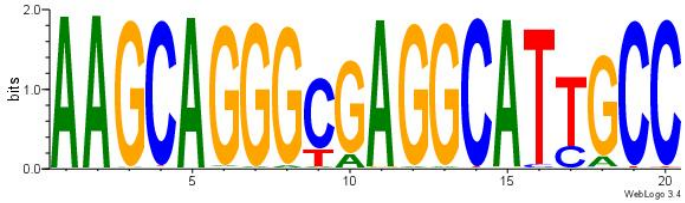

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

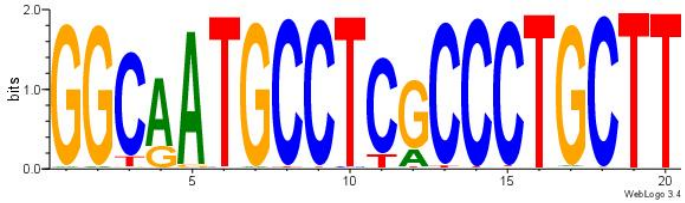

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0674714

Alignment:
GGATGGTGAGGGC
GGAGGCKGAGG--

Original motif Consensus sequence: GCCCTCACCATCC

Reverse complement motif Consensus sequence: GGATGGTGAGGG

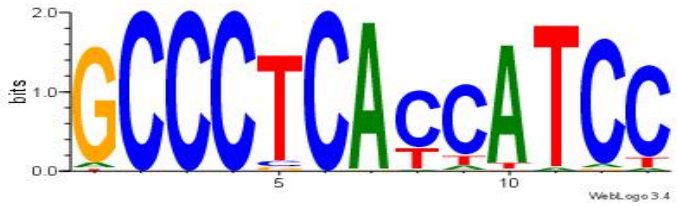

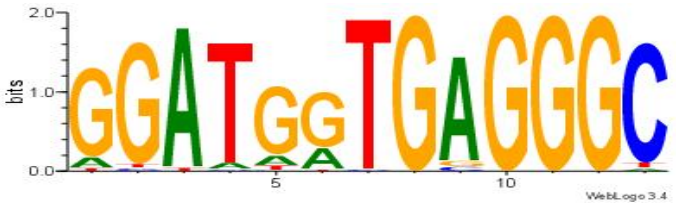

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0677215

Alignment:
ATGTGGAGGTGGAAGACAGT
----GGAGGCKGAGG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

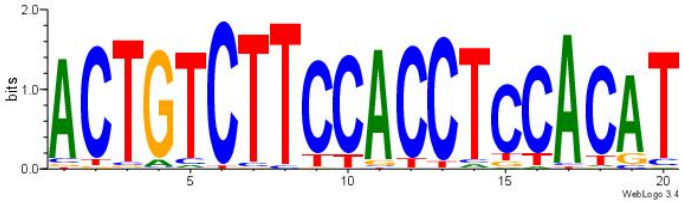

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

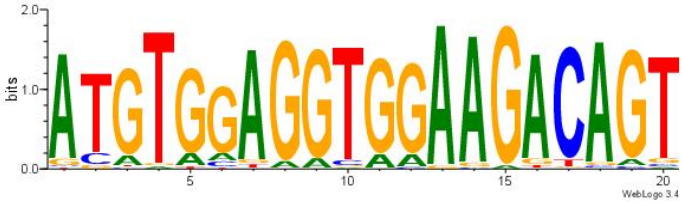

Dataset #: 1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0686145

Alignment:

```
GGCTGCGGAGGGTGTA
GGAGGCKGAGG-----
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

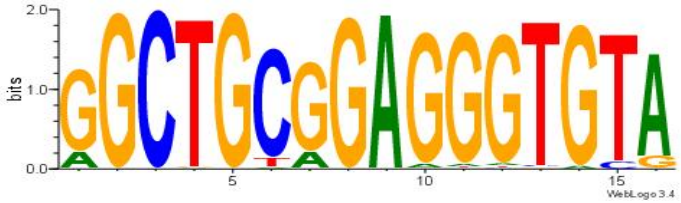

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

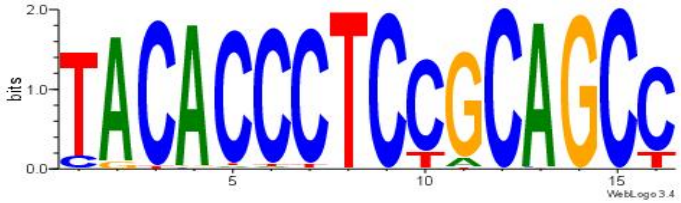

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0694256

Alignment:
TCTCTGAGCCTCAGTT
--CCTCRGCCTCC---

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

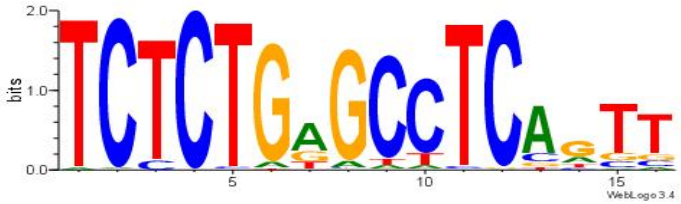

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

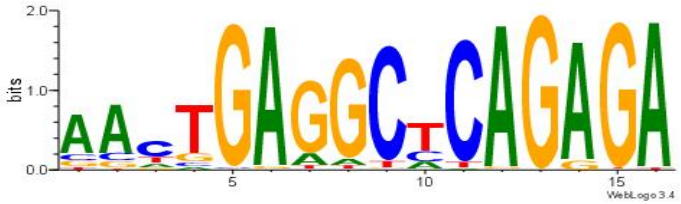

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0694873

Alignment:
GTGTCCCCTTCCTCCC
----CCTCRGCCTCC-

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

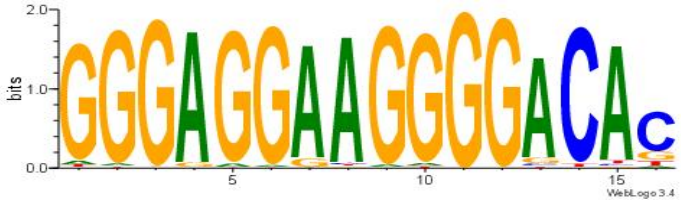

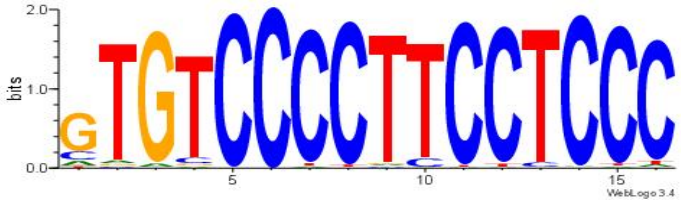

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0696777

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
------CCTCRGCCTCC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

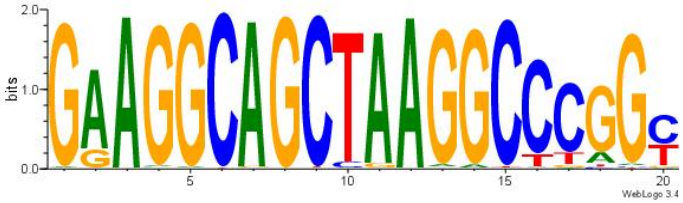

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

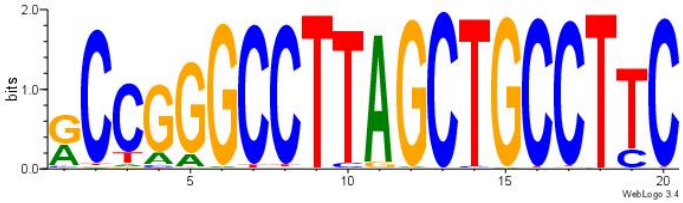

Dataset #:	1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0701512

Alignment:

```
CCTTGGCCAGCCCAGAAAG
CCTCRGCCTCC--------
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

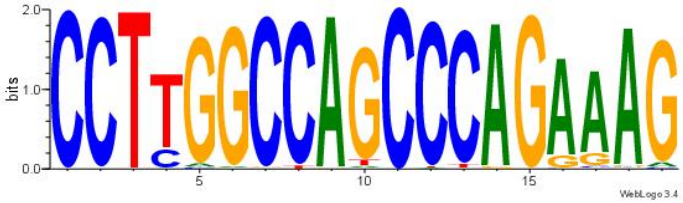

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

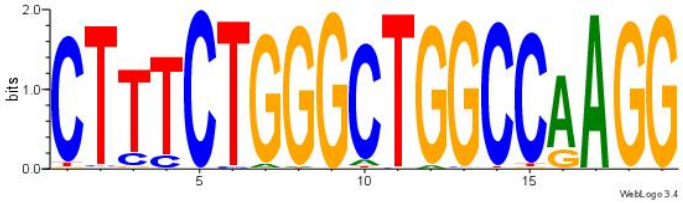

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0717546

Alignment:
VCCDCCTCCKCCTCCTC
----CCTCRGCCTCC--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

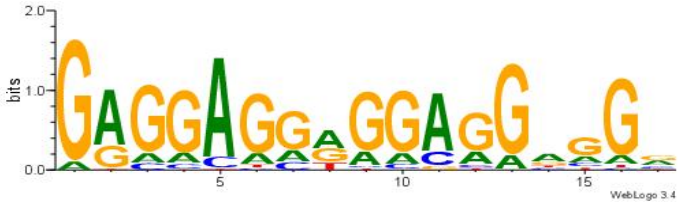

Reverse complement motif Consensus sequence:
VCCDCCTCCKCCTCCTC

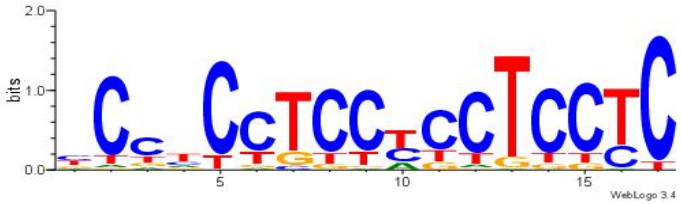

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.072751

Alignment:
CCTTTGACTCCATGTC
CCTCRGCCTCC-----

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence:
CCTTTGACTCCATGTC

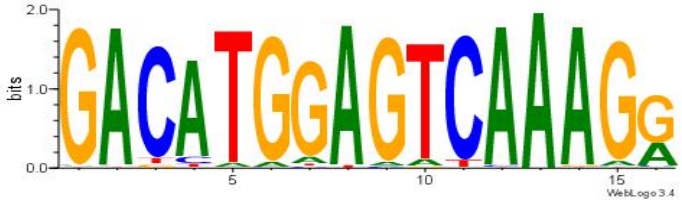

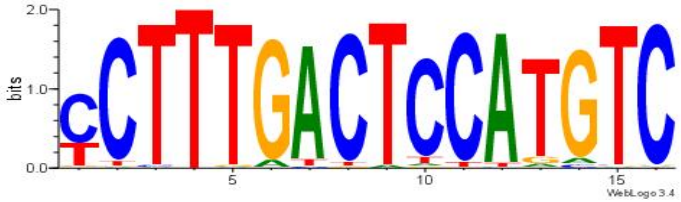

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0768198

Alignment:

```
CCTCCGTGGGCTCC
---CCTCRGCCTCC
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

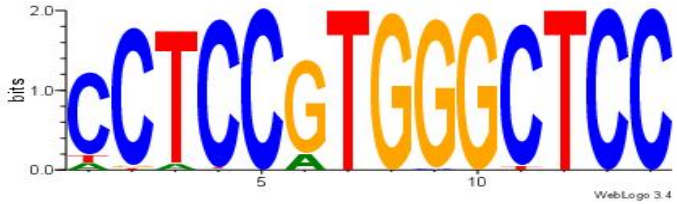

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

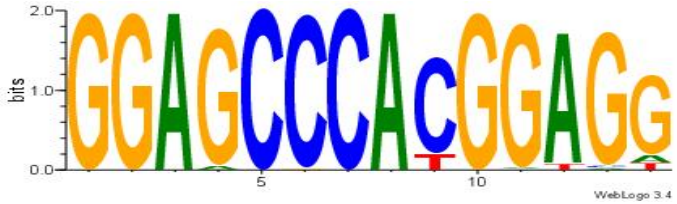

Dataset #:	1
Motif ID:	149

Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0787956

Alignment:

```
ACTCAGCCCRCCTGCACCC
CCTCRGCCTCC--------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

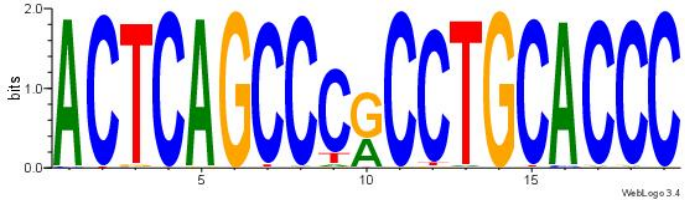

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

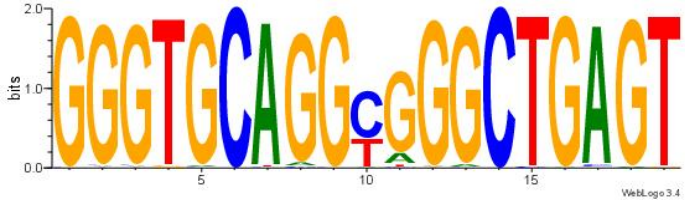

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0791471

Alignment:
AGGAGRCMCTCTGCCTGGC
-------CCTCRGCCTCC-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

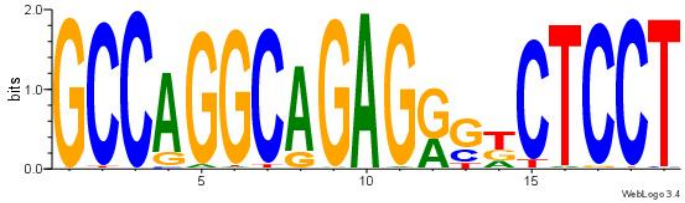

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

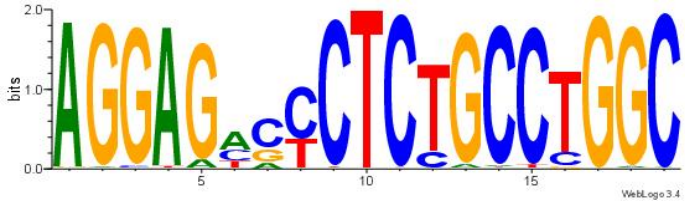

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0792781

Alignment:
TCACKMGGGAAGCGCAAG
-------GGAGGCKGAGG

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

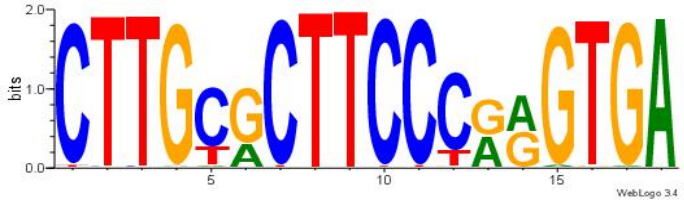

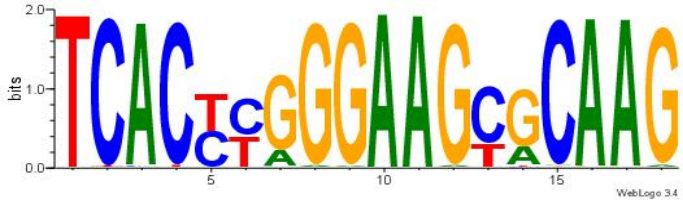

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0798606

Alignment:

```
CCATGGCGTCC
CCTCRGCCTCC
```

Original motif Consensus sequence: CCATGGCGTCC

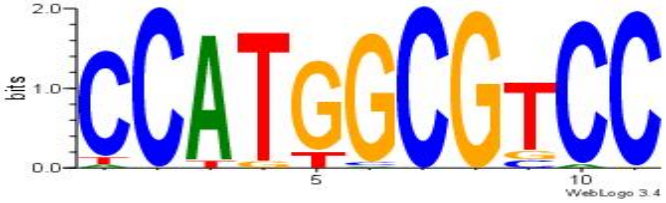

Reverse complement motif Consensus sequence: GGACGCCATGG

Dataset #:	1
Motif ID:	53

Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0800185

Alignment:

```
GTCCCATCGACCACCCAAG
----CCTCRGCCTCC----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

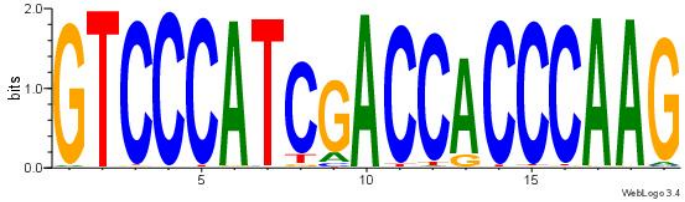

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

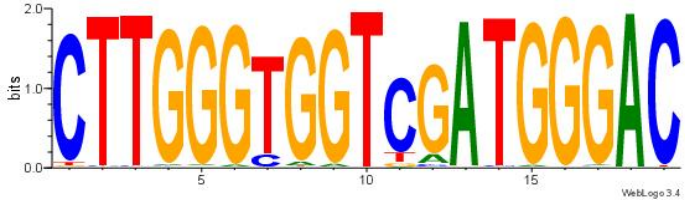

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0816697

Alignment:
CCTCCCAGCCGCCT
--CCTCRGCCTCC-

Original motif Consensus sequence: AGGCGGCTGGGAGG

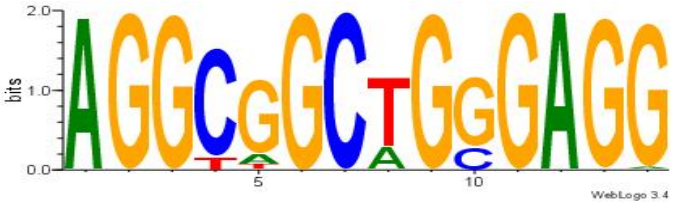

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0818216

Alignment:
GGTGGGGGGGTCAGCCCCC
--------CCTCRGCCTCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

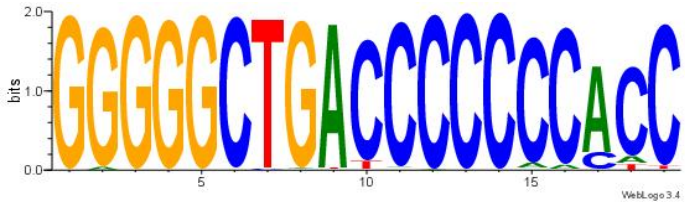

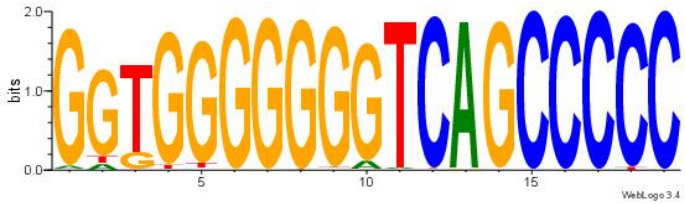

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0853488

Alignment:

```
CTCCCAGCCGCCTG
-CCTCRGCCTCC--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

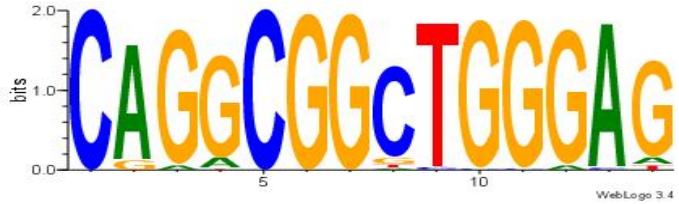

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

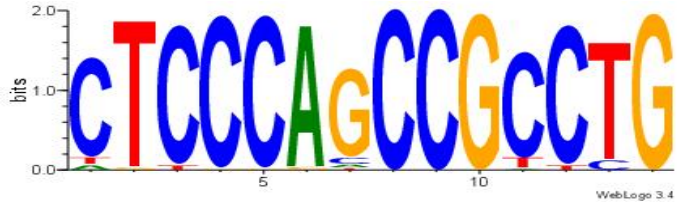

Dataset #:	1
Motif ID:	98

Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0868186

Alignment:

```
CCCACGCCCACCCGGAACT
-CCTCRGCCTCC-------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

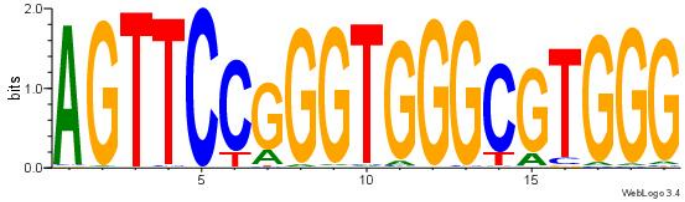

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

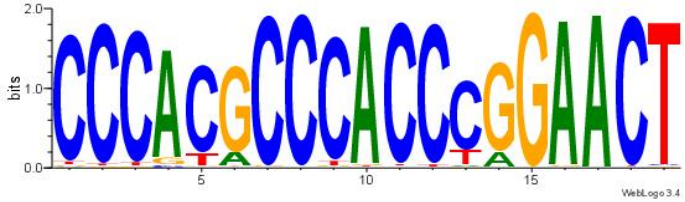

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0879518

Alignment:
CTASAACCTCCA
CCTCRGCCTCC-

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

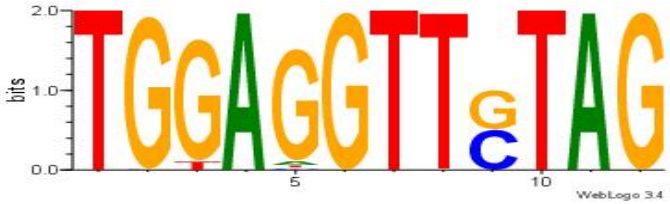

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0906873

Alignment:
GTAGACKGGAGCTGTTCCT
GGAGGCKGAGG--------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

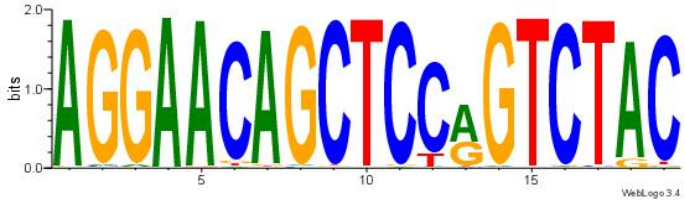

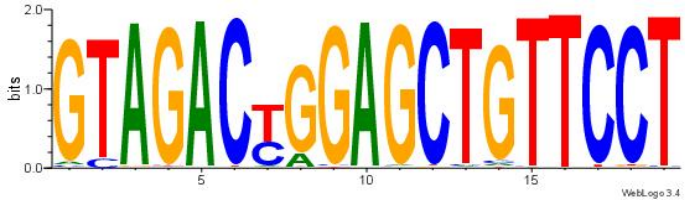

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0907657

Alignment:

```
CTCCTGCCTCAGCY
CCTCRGCCTCC---
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

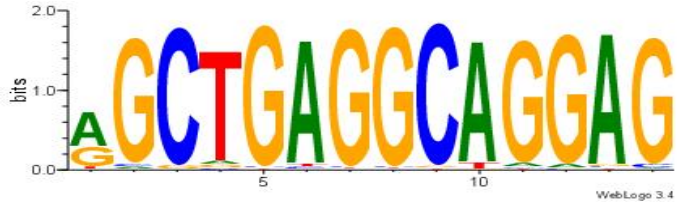

Dataset #:	1
Motif ID:	17

Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0909909

Alignment:

```
AGACAGTGGGYGCAGGHCA
-----GGAGGCKGAGG---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

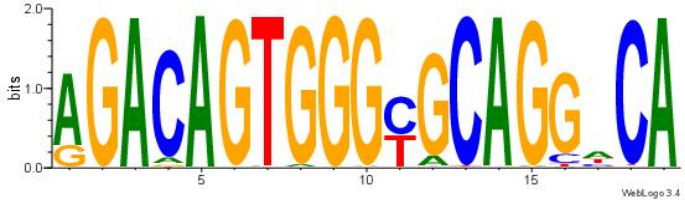

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

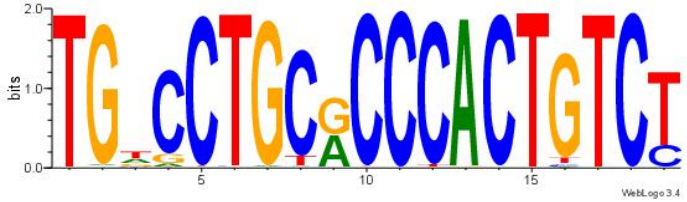

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0916479

Alignment:
CCCMKGGCACCCTCAGTCCT
CCTCRGCCTCC---------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

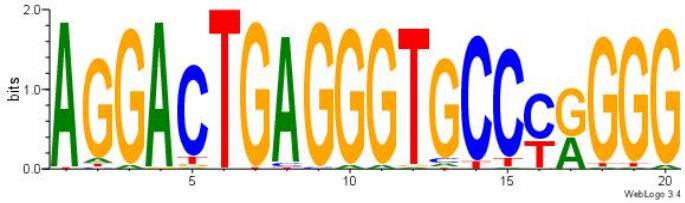

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

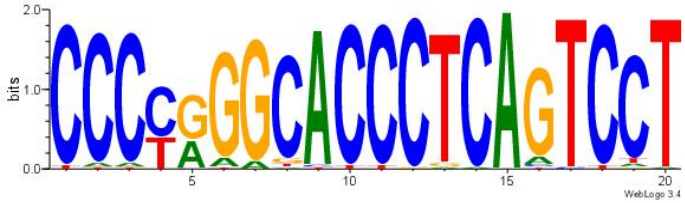

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0937656

Alignment:
CRTGAGCCACYGYRCCYGGC
CCTCRGCCTCC---------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

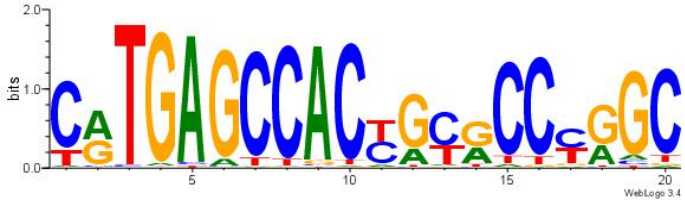

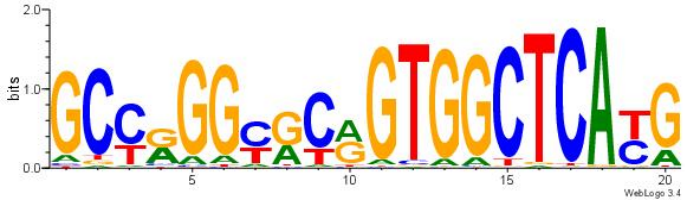

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0937804

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CCTCRGCCTCC--------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

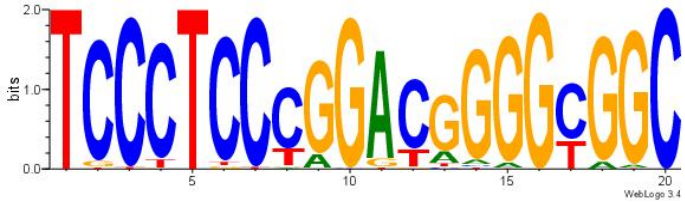

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

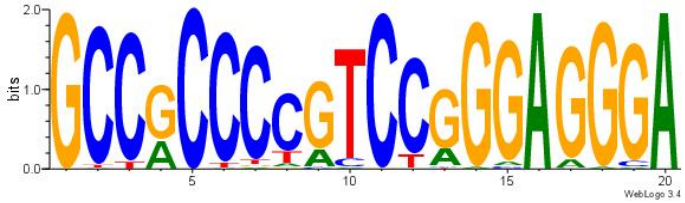

Dataset #:	1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0941397

Alignment:

```
TTGAGGAGGCAGTCTG
----GGAGGCKGAGG-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

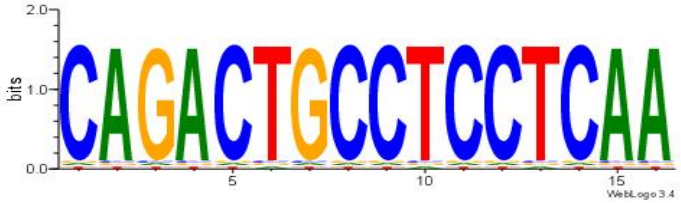

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

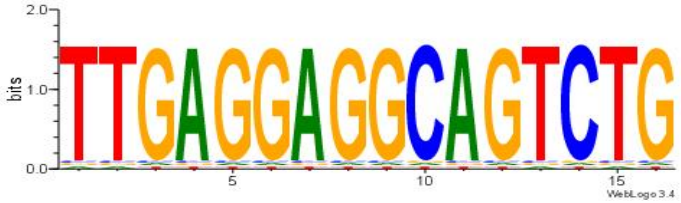

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0942309

Alignment:
GGGRSCACAGGAGCD
GGAGGCKGAGG----

Original motif Consensus sequence: HGCTCCTGTGSKCCC

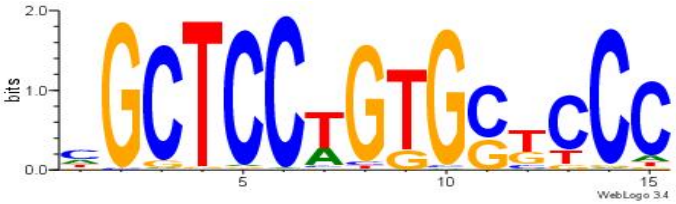

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

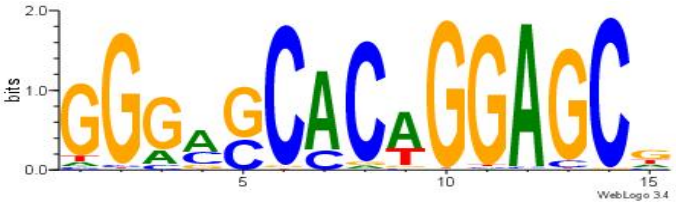

Dataset #: 1
Motif ID: 49
Motif name: Motif 49
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0966567

Alignment:
GGRRMCAGATGT
GGAGGCKGAGG-

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

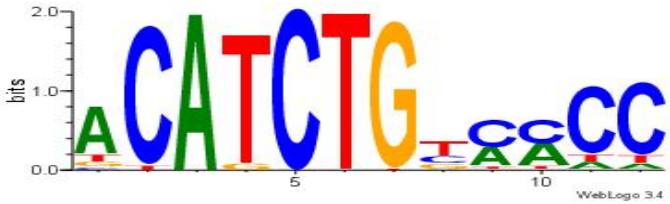

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0970211

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-------CCTCRGCCTCC--
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

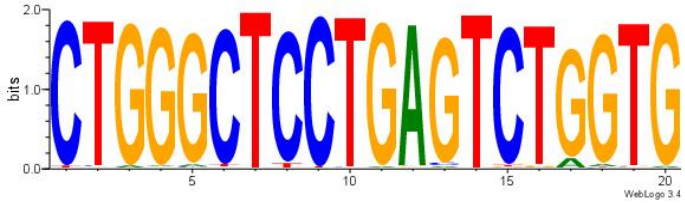

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

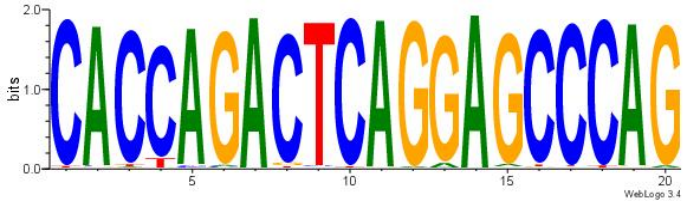

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0971187

Alignment:

```
GCTTAGCACCYGGGCCAGC
--------CCTCRGCCTCC
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

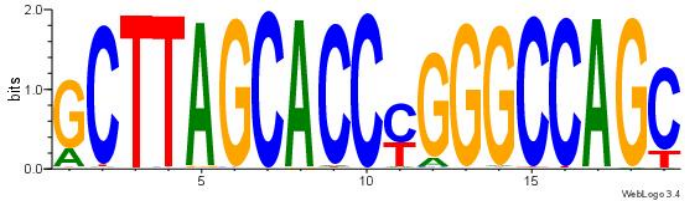

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

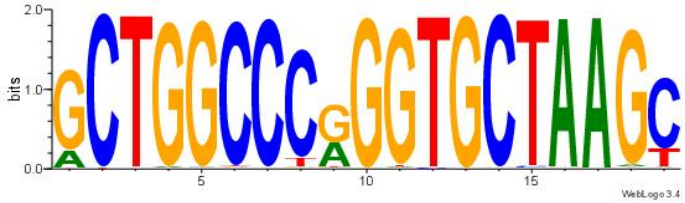

Dataset #:	1
Motif ID:	22
Motif name:	Motif 22
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0971199

Alignment:
ATCTCAGACKRY
-CCTCRGCCTCC

Original motif Consensus sequence: ATCTCAGACKRY

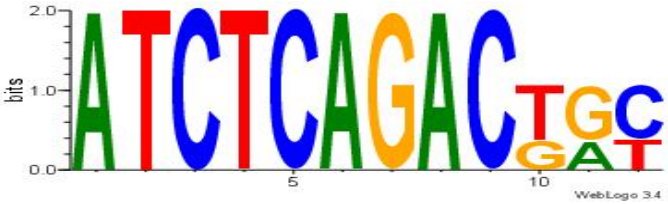

Reverse complement motif Consensus sequence: KMRGTCTGAGAT

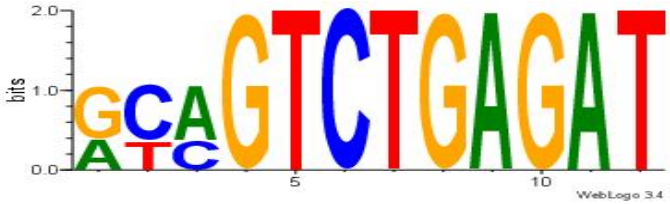

Dataset #: 1
Motif ID: 365
Motif name: Motif 365
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0986098

Alignment:
AGCTCCGGTCTAC
--CCTCRGCCTCC

Original motif Consensus sequence: AGCTCCGGTCTAC

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

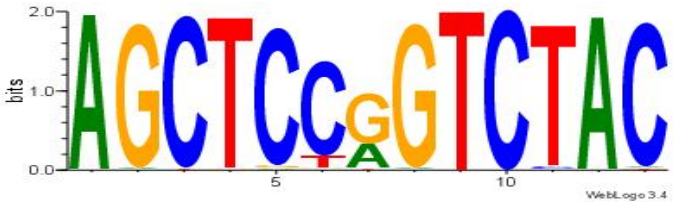

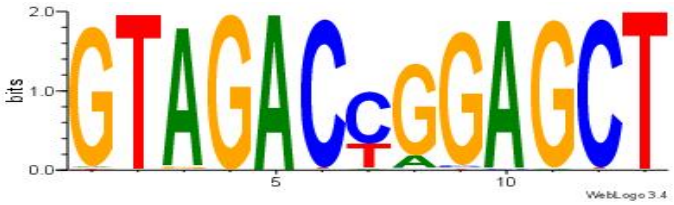

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0990733

Alignment:

```
GGRCKCACWGGAGC
GGAGGCKGAGG---
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

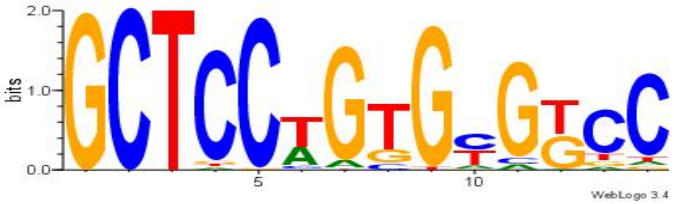

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	58

Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.101315

Alignment:

```
ATGGACAYTTRGGTTGHTTC
--GGAGGCKGAGG-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

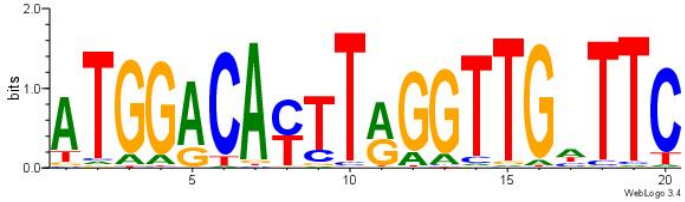

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

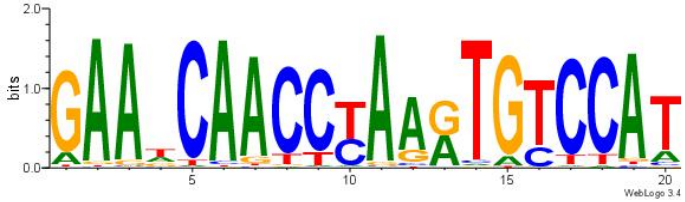

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.101529

Alignment:
CATGGCGGGCTGCAGGTC
----GGAGGCKGAGG---

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

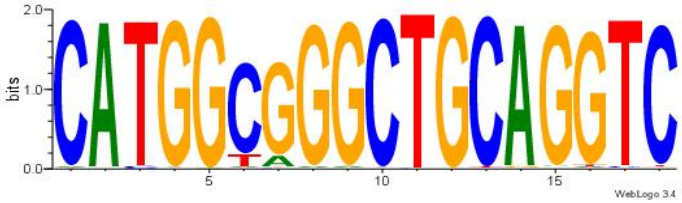

Reverse complement motif Consensus sequence:
GACCTGCAGCCCGCCATG

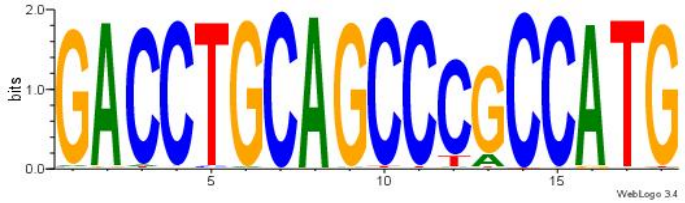

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.101752

Alignment:
AGGAGCGCCTCTKCCCGGC
-------CCTCRGCCTCC-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

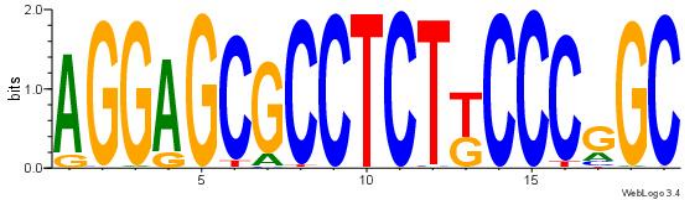

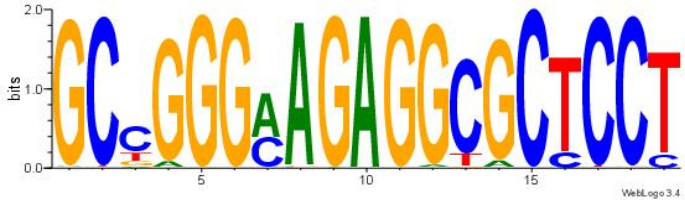

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.101897

Alignment:

```
CTGTTTGCCTGGGTATCA
-------CCTCRGCCTCC
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

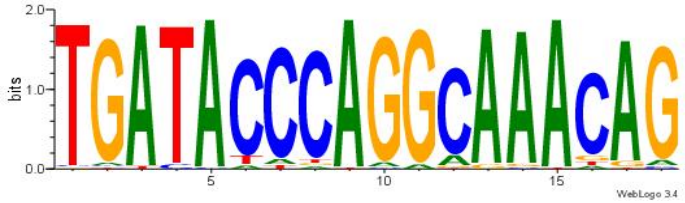

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

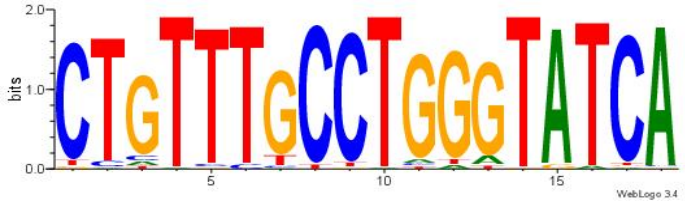

Dataset #:	1

Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.102065

Alignment:

```
CCCACACCCTTATTA
-CCTCRGCCTCC---
```

Original motif Consensus sequence: CCCACACCCTTATTA

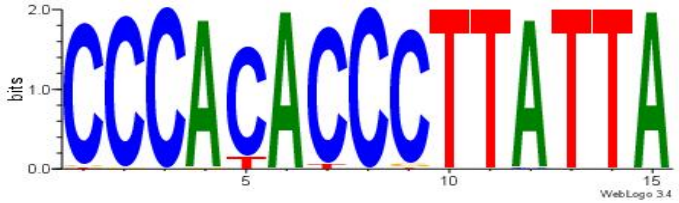

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

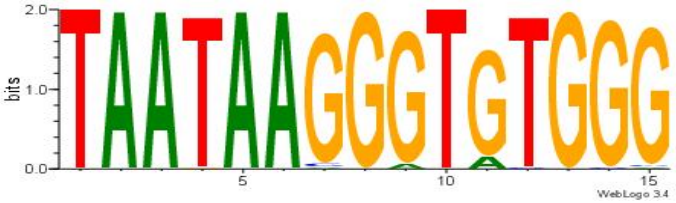

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.102205

Alignment:
GCGMGCGGGAACCGGGGCT
-------GGAGGCKGAGG-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

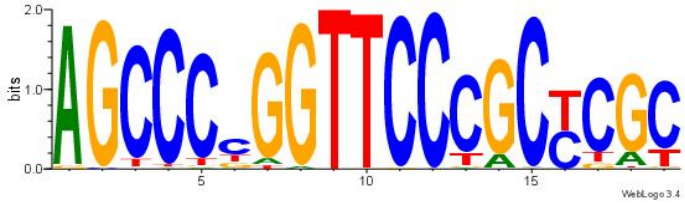

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

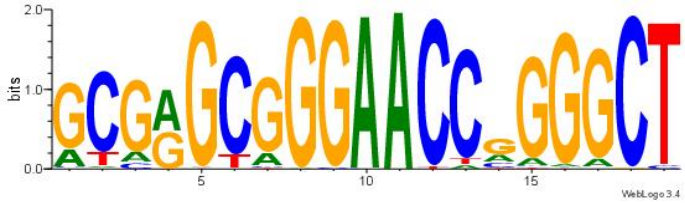

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.10237

Alignment:
TACCTGAGACTGGGTAATTT
--CCTCRGCCTCC-------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

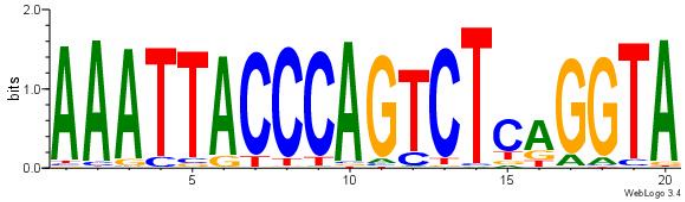

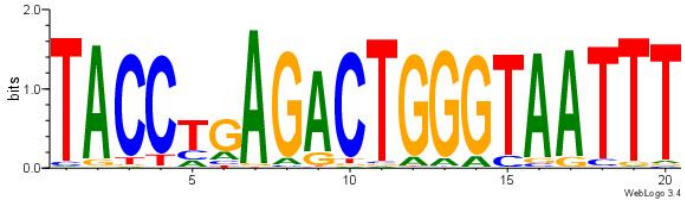

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.10239

Alignment:

```
GGGAGGGATATATTAGC
-GGAGGCKGAGG-----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

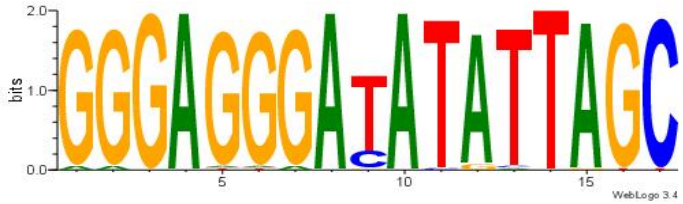

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

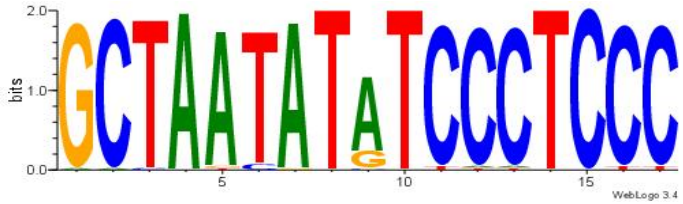

Dataset #: 1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.102575

Alignment:

```
GGGGTGACAGABGB
-GGAGGCKGAGG--
```

Original motif Consensus sequence: GGGGTGACAGABGB

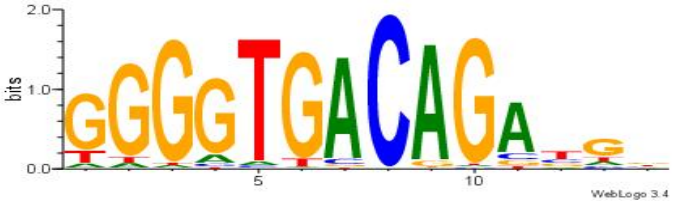

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

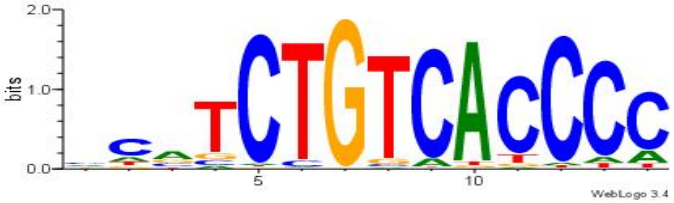

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.103257

Alignment:
TAMGACCTCAGGTCCTCAG
-----CCTCRGCCTCC---

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

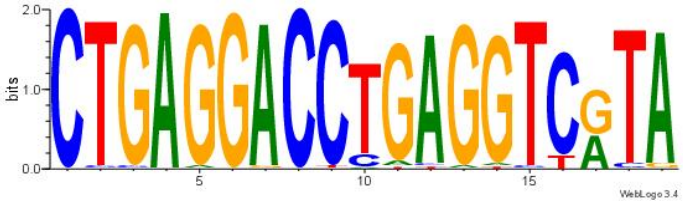

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

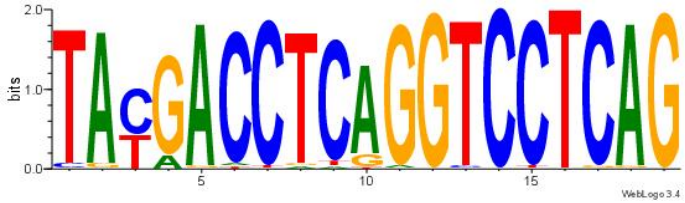

Dataset #: 1 Motif ID: 151 Motif name: Motif 151

Original motif Consensus sequence: CATTGTAGB

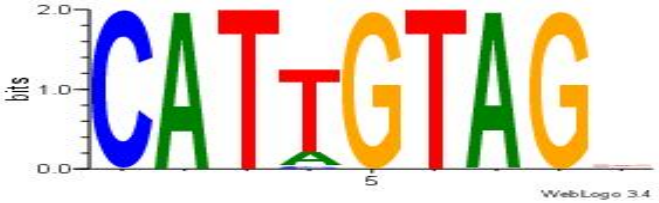

Reverse complement motif Consensus sequence: BCTACAATG

Best Matches for Significant Motif ID 151 (Highest to Lowest)

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward

Position number: 2
Number of overlap: 9
Similarity score: 0.0584909

Alignment:
ACATGCTACAACAT
----BCTACAATG-

Original motif Consensus sequence: ACATGCTACAACAT

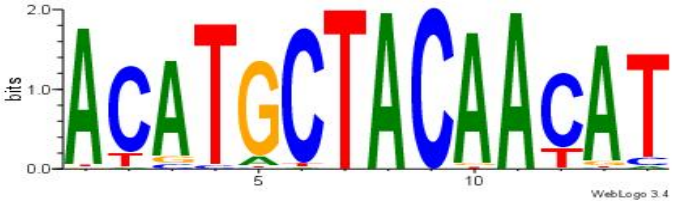

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

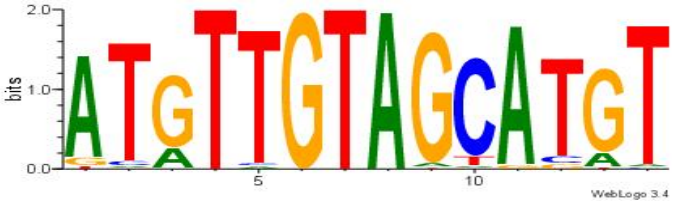

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 9
Similarity score: 0.0645319

Alignment:
CCGCTGCACTGTGGGAGCCC
------CATTGTAGB-----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

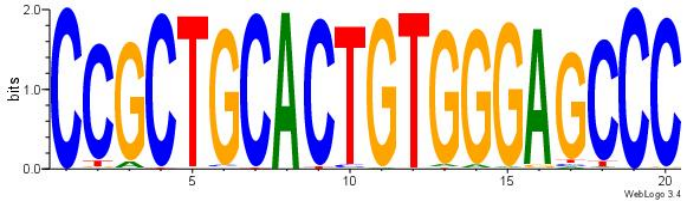

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

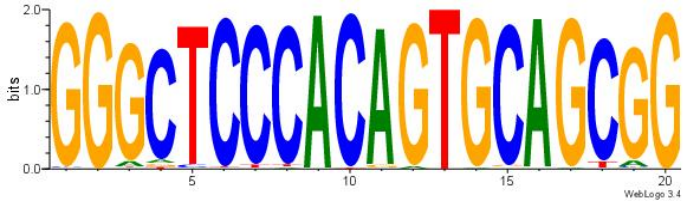

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0647318

Alignment:

```
GGGATTGTAAATACACCAAT
---------CATTGTAGB--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

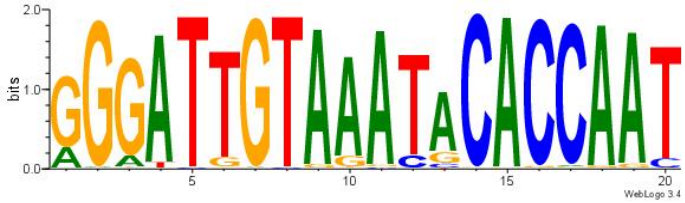

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0674469

Alignment:

```
GTCATCTCCTATG
----BCTACAATG
```

Original motif Consensus sequence: CATAGGAGATGAC

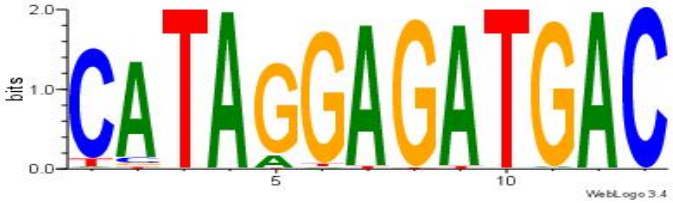

Reverse complement motif Consensus sequence: GTCATCTCCTATG

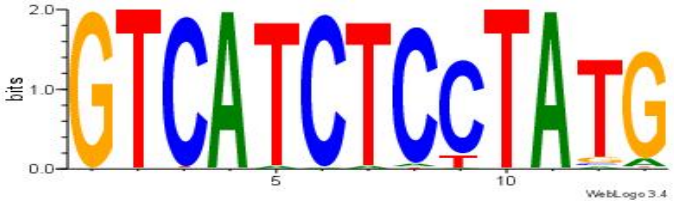

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9

Similarity score: 0.0683218

Alignment:
CCACCAACAGTGTAY
---BCTACAATG---

Original motif Consensus sequence: CCACCAACAGTGTAY

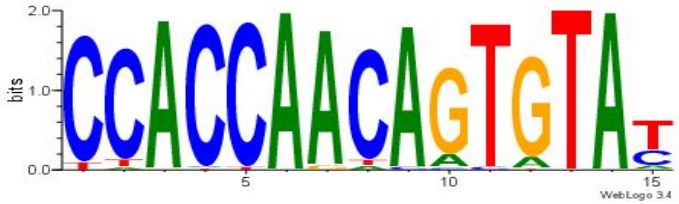

Reverse complement motif Consensus sequence: MTACACTGTTGGT

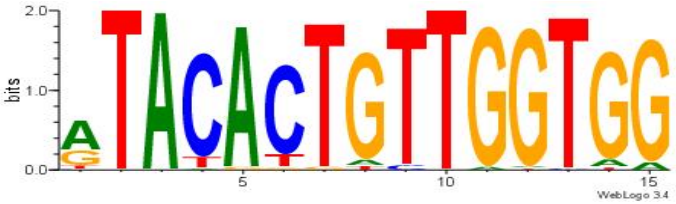

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 9
Similarity score: 0.0692025

Alignment:
CATTCTGGGGTCTGGAGGAY
CATTGTAGB----------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

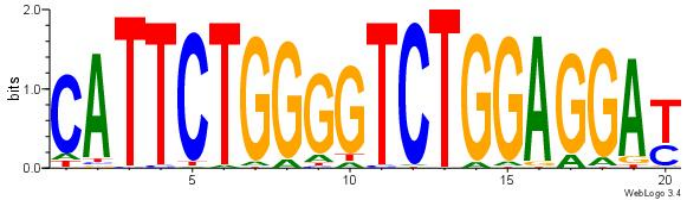

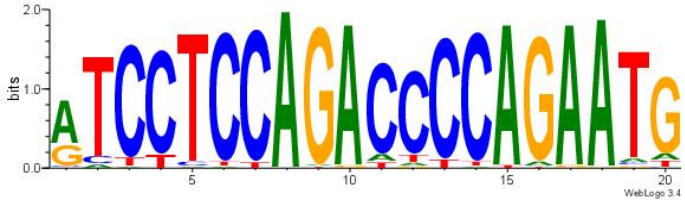

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0700312

Alignment:

```
GCTTCCATGTG
BCTACAATG--
```

Original motif Consensus sequence: CACATGGAAGC

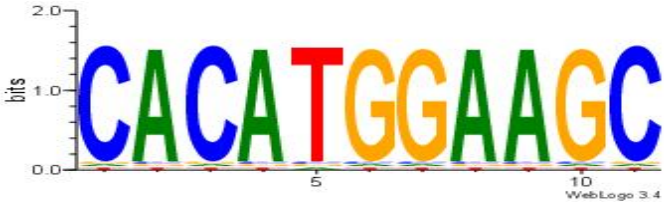

Reverse complement motif Consensus sequence: GCTTCCATGTG

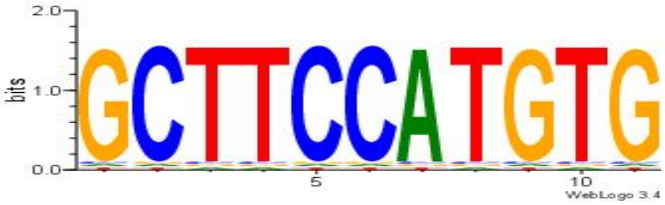

Dataset #:	1
Motif ID:	300

Motif name:	Motif 300
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.072984

Alignment:

```
TCTGTAAAATG
--BCTACAATG
```

Original motif Consensus sequence: CATTTTACAGA

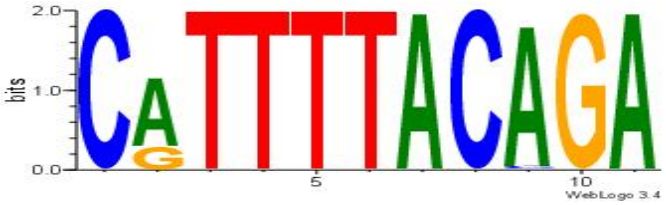

Reverse complement motif Consensus sequence: TCTGTAAAATG

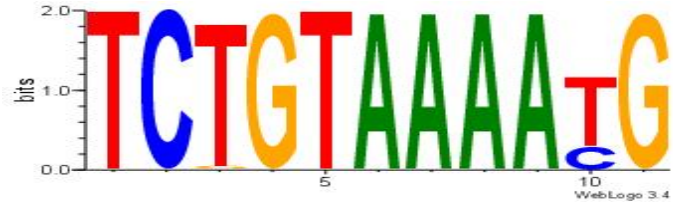

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0740322

Alignment:
KCAGTGTACACTGM
----BCTACAATG-

Original motif Consensus sequence: RCAGTGTACACTGY

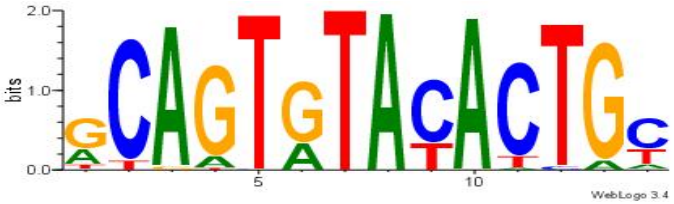

Reverse complement motif Consensus sequence: KCAGTGTACACTG

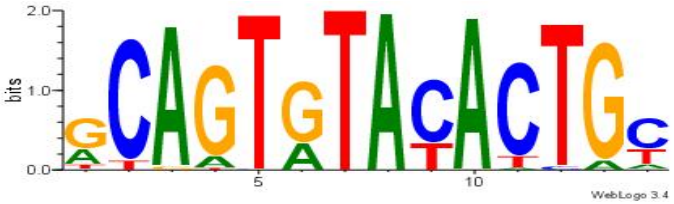

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0743572

Alignment:
AGGGCCTTTGCASWTGC
-----CATTGTAGB---

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

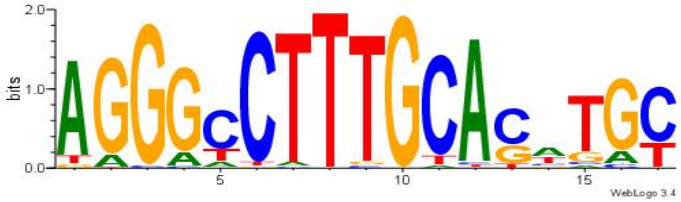

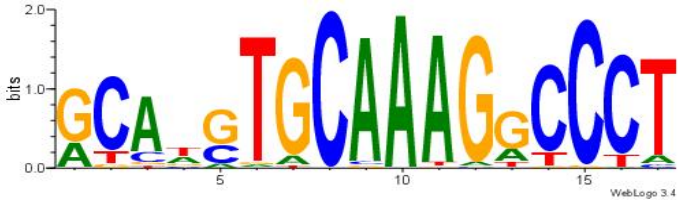

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0749555

Alignment:

```
CTGGCCCTCAATGGTTAAAC
----BCTACAATG-------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

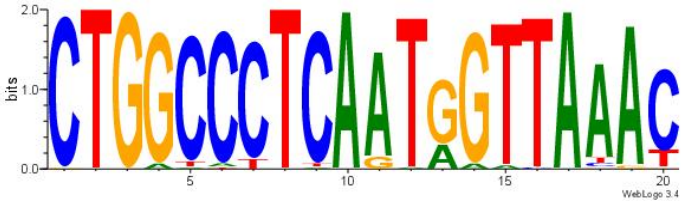

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

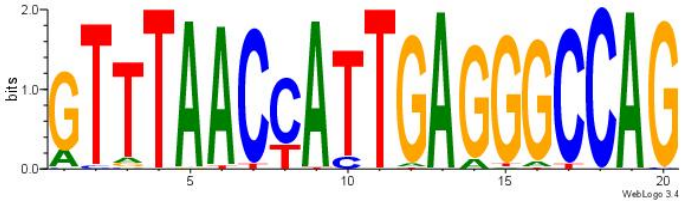

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0751859

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------BCTACAATG-----
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

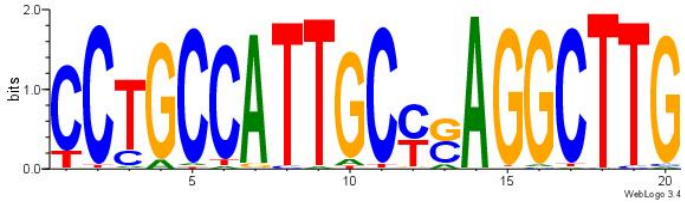

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

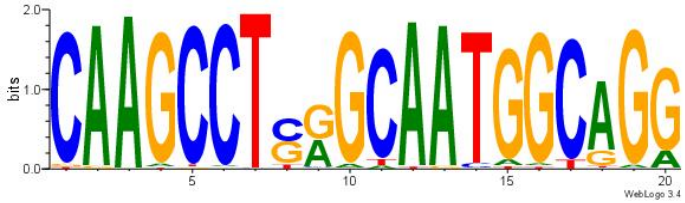

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9

Similarity score: 0.0804581

Alignment:
ACCCAATWTGTAGTCTTTTA
-----CATTGTAGB------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

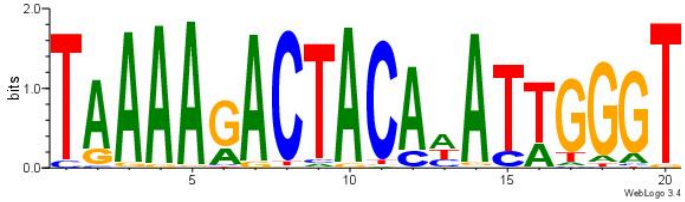

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

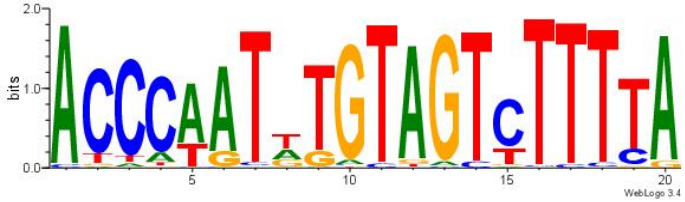

Dataset #: 1
Motif ID: 282
Motif name: Motif 282
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 9
Similarity score: 0.0818297

Alignment:
GTCTCTACTAAAA
---BCTACAATG-

Original motif Consensus sequence: GTCTCTACTAAAA

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

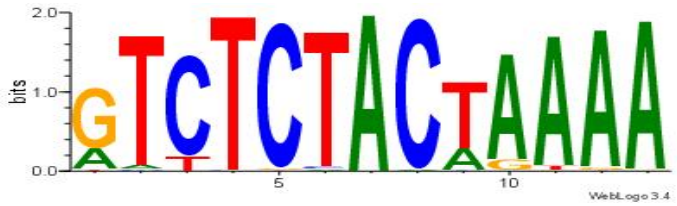

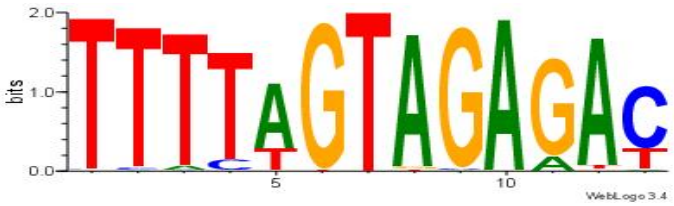

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0819001

Alignment:

```
GACTTCAAGAATGAAGCCG
----BCTACAATG------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

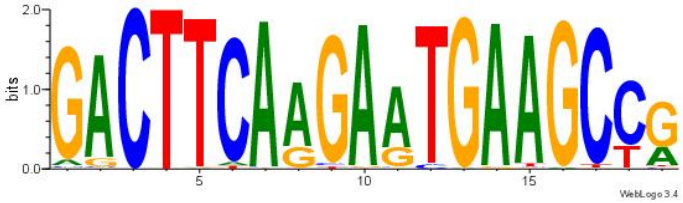

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

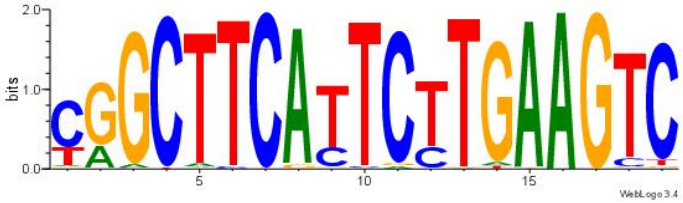

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0830815

Alignment:

```
GKCTGTACCCCCATTGTAT
-------BCTACAATG---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

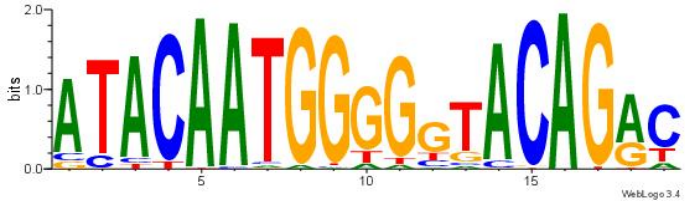

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

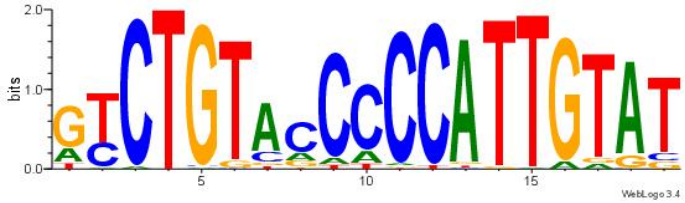

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0832408

Alignment:
GGGAGGGATATATTAGC
--------CATTGTAGB

Original motif Consensus sequence: GGGAGGGATATATTAGC

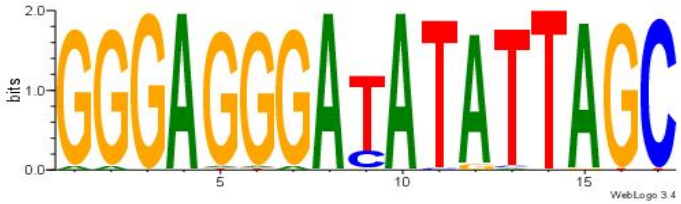

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

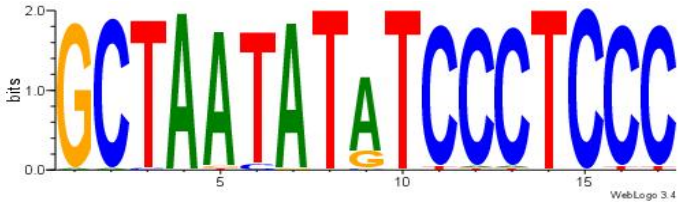

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.083758

Alignment:
CATGGCGGGCTGCAGGTC
CATTGTAGB---------

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

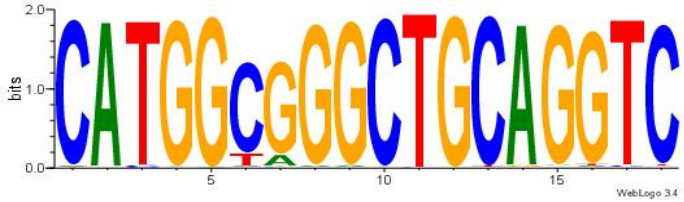

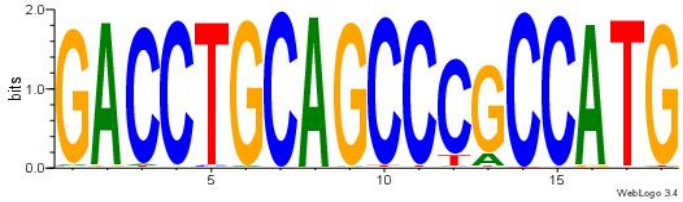

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.084228

Alignment:

```
CCATGATTGTRAGG
----CATTGTAGB-
```

Original motif Consensus sequence: CCATGATTGTRAGG

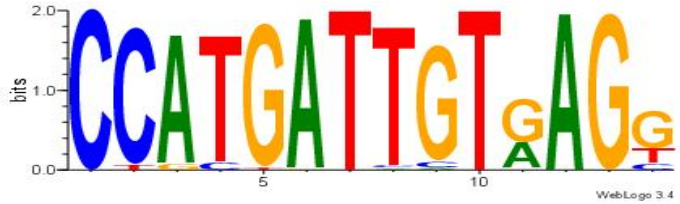

Reverse complement motif Consensus sequence: CCTMACAATCATG

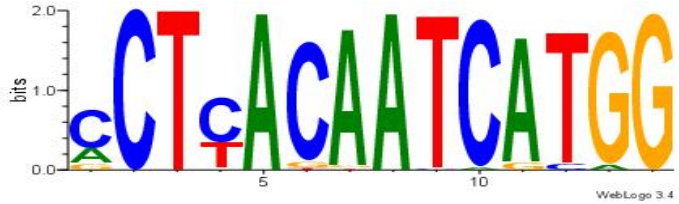

Dataset #:	1
Motif ID:	206

Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0843491

Alignment:

```
GCTCCWGTGYGKCC
BCTACAATG-----
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

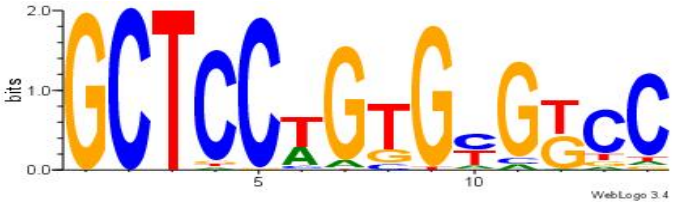

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0850379

Alignment:
AAAGTGCCGAGAKTGCAGC
----------CATTGTAGB

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

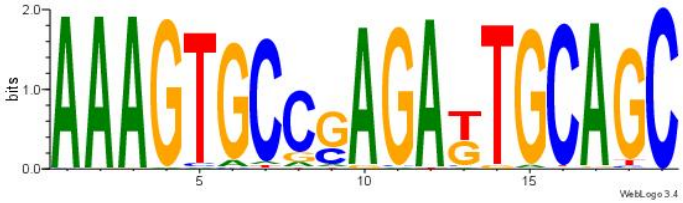

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

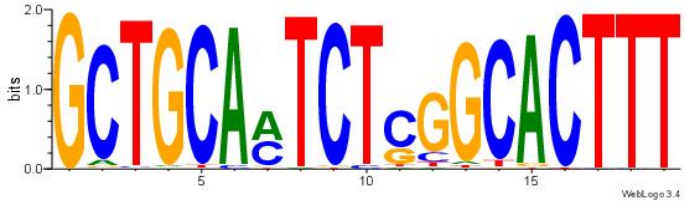

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0851305

Alignment:
GCTGGGATTACAGG
-----CATTGTAGB

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

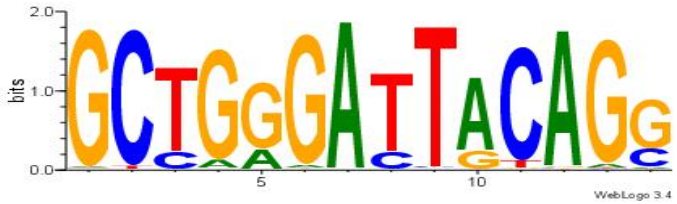

Dataset #:	1
Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0857567

Alignment:

```
MTTGACTACCCTA
----BCTACAATG
```

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

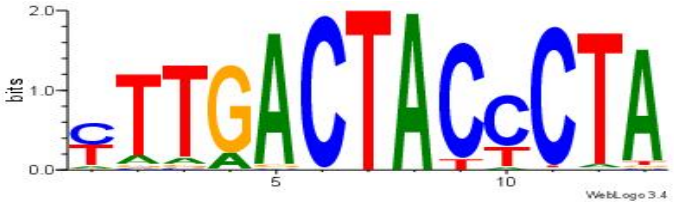

Dataset #:	1
Motif ID:	215

Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0864776

Alignment:

```
GGGRSCACAGGAGCD
-----CATTGTAGB-
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

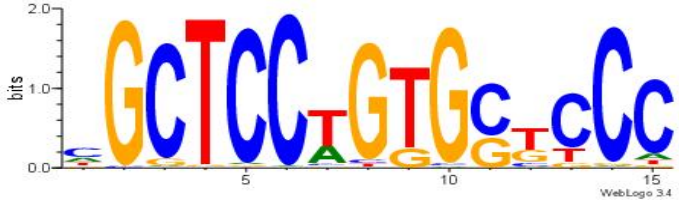

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0866429

Alignment:
TTCCTAACAGGCCA
--BCTACAATG---

Original motif Consensus sequence: TGGCCTGTTAGGAA

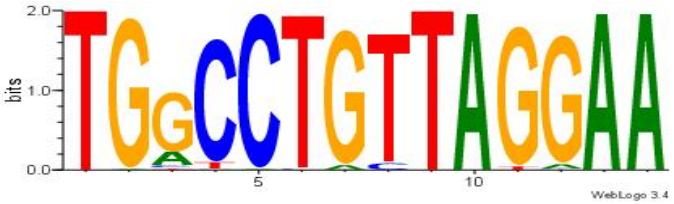

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

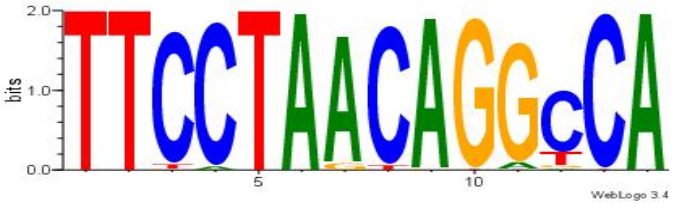

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0869872

Alignment:
TCKMGCCACTGCACTCCAGC
--BCTACAATG---------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

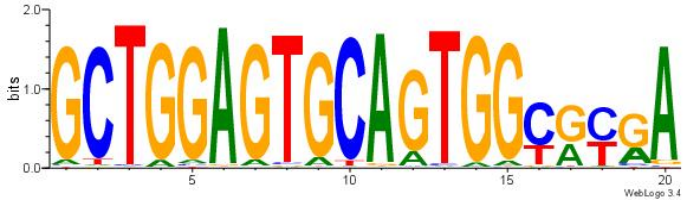

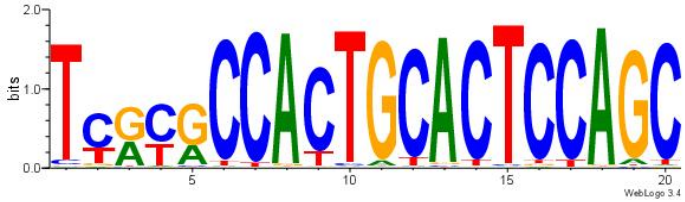

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0878853

Alignment:

```
CCGCTCCTGTGC
--BCTACAATG-
```

Original motif Consensus sequence: CCGCTCCTGTGC

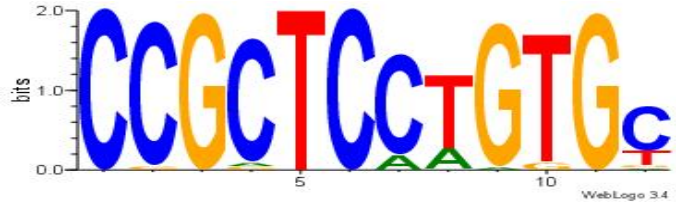

Reverse complement motif Consensus sequence: GCACAGGAGCGG

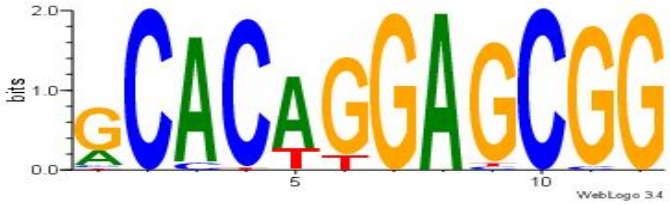

Dataset #:	1
Motif ID:	2

Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0883769

Alignment:

```
ATTAGCYRGGCRTGGTGGC
----------CATTGTAGB
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

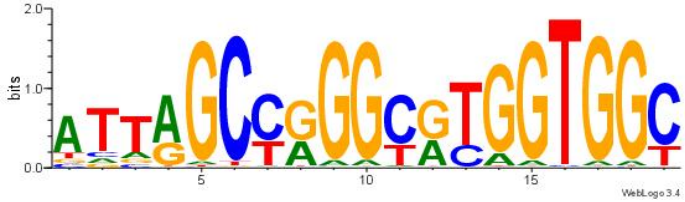

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

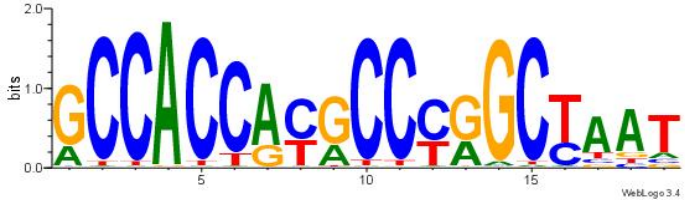

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0889413

Alignment:
AATCAACCCTGGYRATCAAT
--BCTACAATG---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

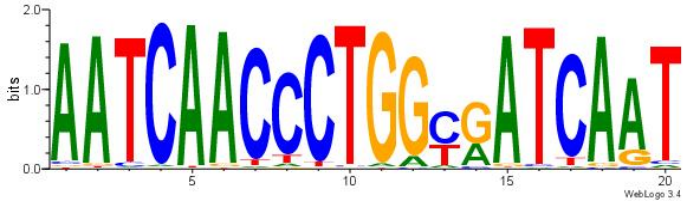

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

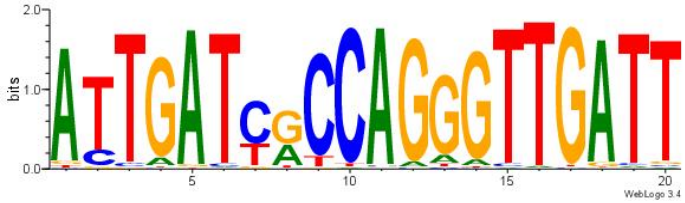

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0896883

Alignment:
CAATGATAGACTGGAT
----BCTACAATG---

Original motif Consensus sequence: ATCCAGTCTATCATTG

Reverse complement motif Consensus sequence:
CAATGATAGACTGGAT

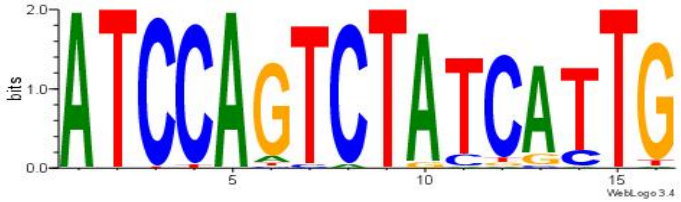

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0899368

Alignment:

```
AACCCTATTGTGAACTGYG
---BCTACAATG-------
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

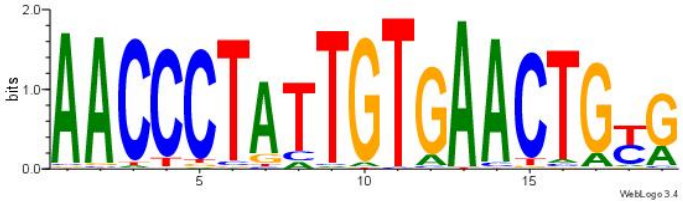

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

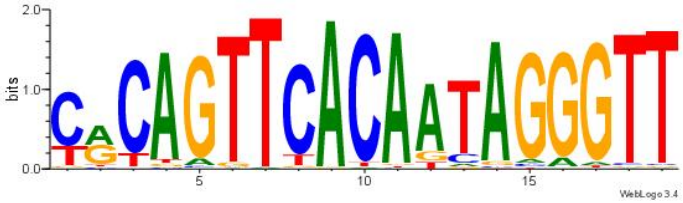

Dataset #: 1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0906769

Alignment:

```
ACATCCCAGACGATGGGCG
----BCTACAATG------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

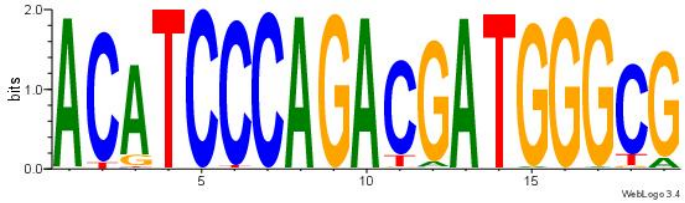

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

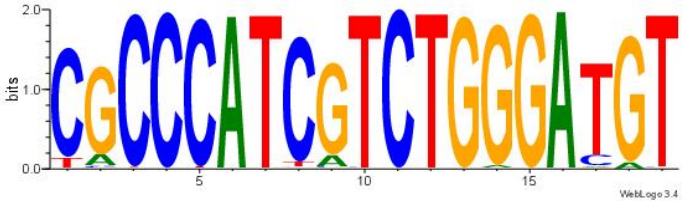

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0909047

Alignment:
CCCATGCAAGTCYRAAATCC
--CATTGTAGB---------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

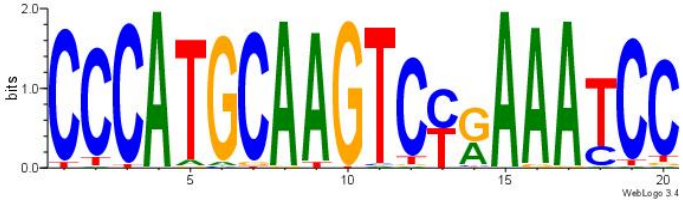

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

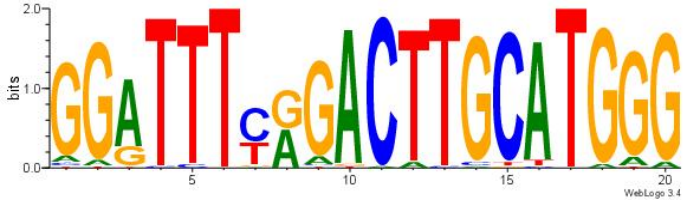

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0909952

Alignment:
TAGATAATAGCTCCAGCTTT
--CATTGTAGB---------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

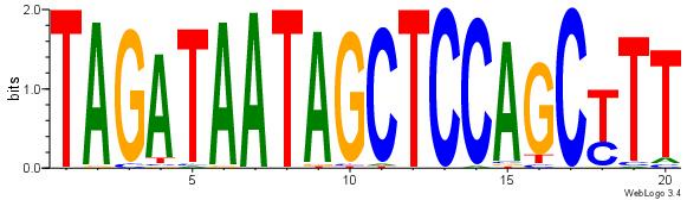

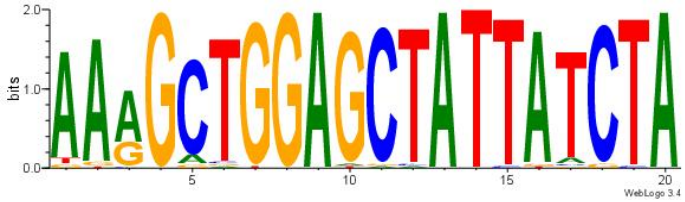

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0910916

Alignment:

```
KGAGAACAGTAGGG
----CATTGTAGB-
```

Original motif Consensus sequence: CCCTACTGTTCTCY

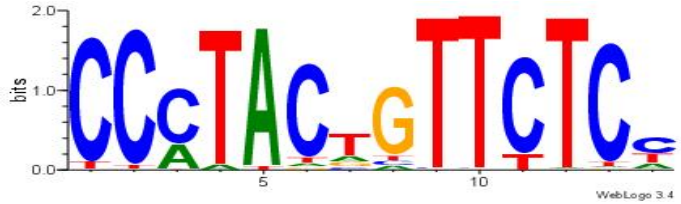

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	147

Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0912932

Alignment:

```
TCAATGGTGCCCAG
----CATTGTAGB-
```

Original motif Consensus sequence: CTGGGCACCATTGA

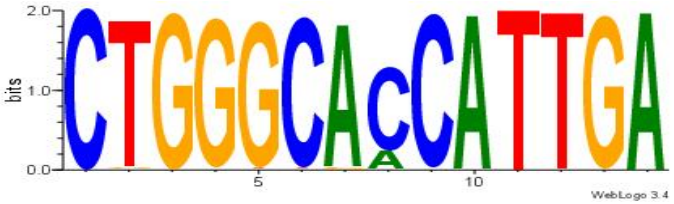

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

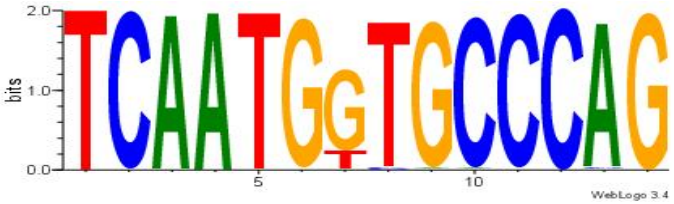

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0914038

Alignment:
ACATCMTCTGAAATCTAGG
----------CATTGTAGB

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

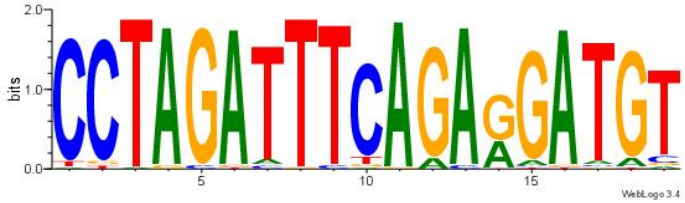

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

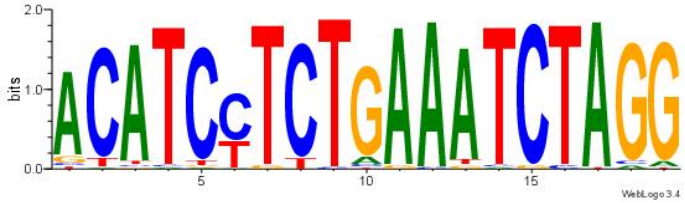

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0915227

Alignment:
GCCAATTTCTCCCATTTGGA
-------BCTACAATG----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

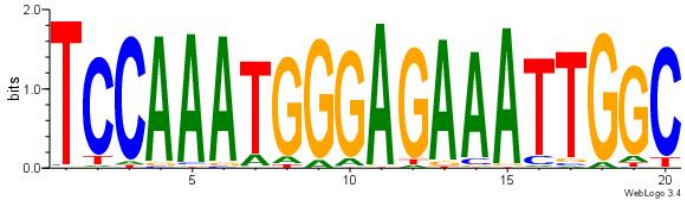

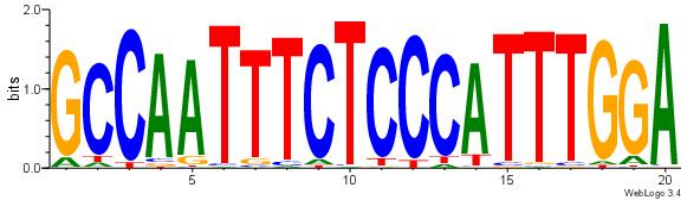

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0922694

Alignment:

```
GTTGTGAGGATTAAATGAG
--------BCTACAATG--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

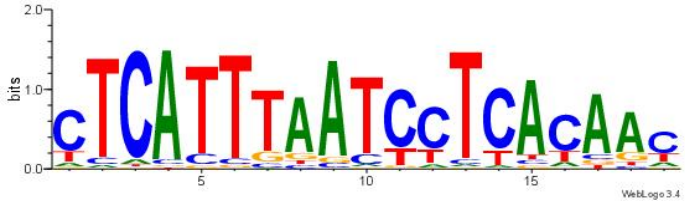

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

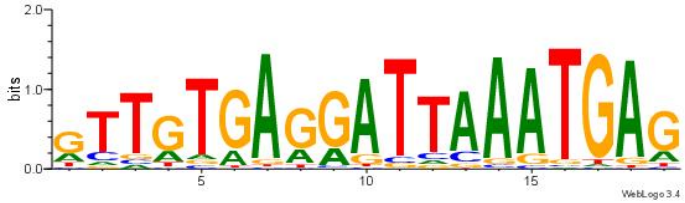

Dataset #: 1

Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0927999

Alignment:

```
CTCCATGAAGTC
--CATTGTAGB-
```

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

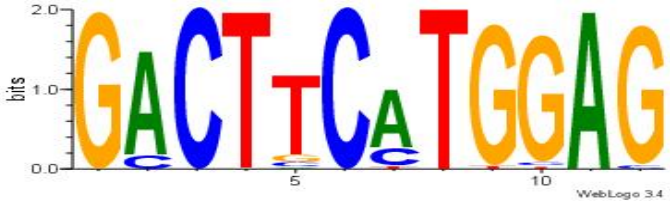

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0928517

Alignment:
AGTTGTAATTGGGAGACTT
CATTGTAGB----------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

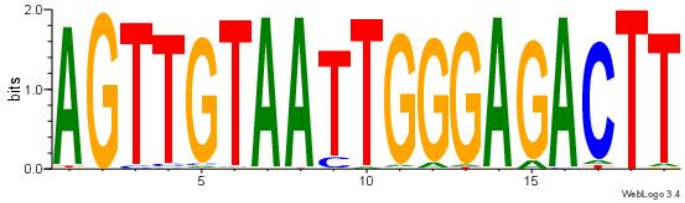

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

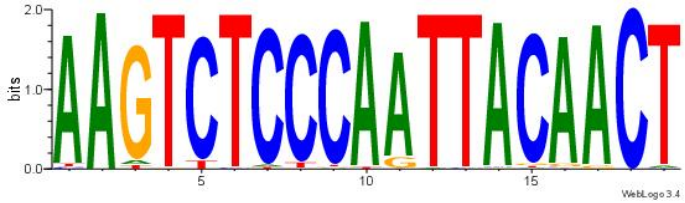

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0928755

Alignment:
CCATCTAGGAAGTG
---BCTACAATG--

Original motif Consensus sequence: CACTTCCTAGATGG

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

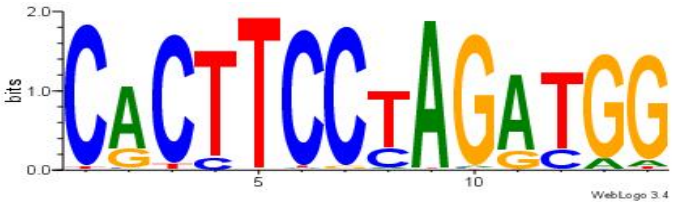

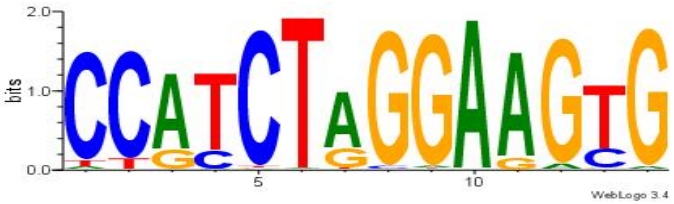

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0931249

Alignment:

```
GCCTTGCTGCCGC
-CATTGTAGB---
```

Original motif Consensus sequence: GCCTTGCTGCCGC

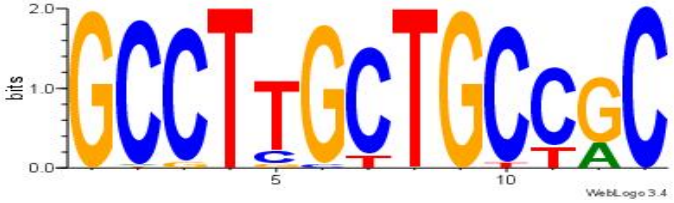

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

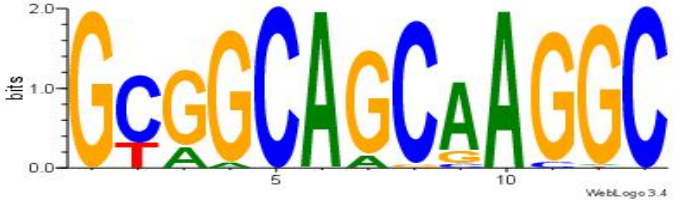

Dataset #:	1
Motif ID:	169

Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0932393

Alignment:

```
TTTTATAGGATTTGGG
CATTGTAGB-------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

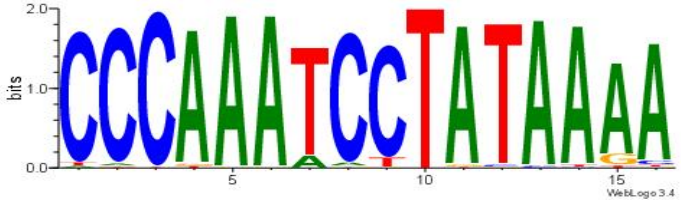

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

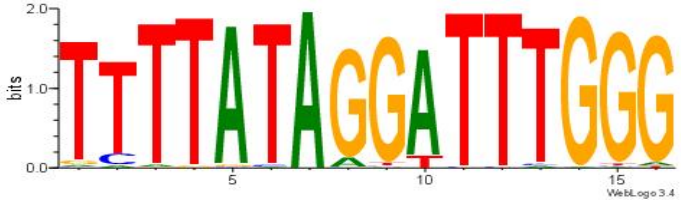

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0933165

Alignment:
CACTTTCCAGACTGGGCA
-----BCTACAATG----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

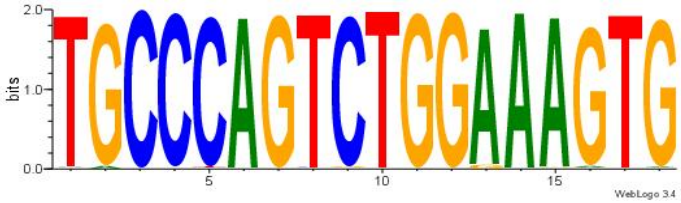

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

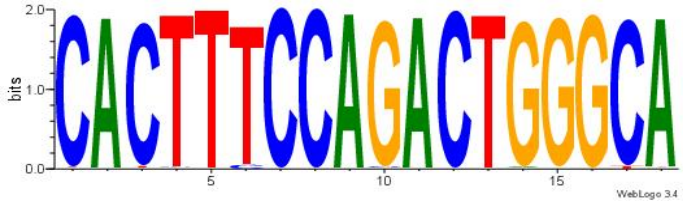

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.093388

Alignment:
GGCACTGCTGGGGGACCCAG
---------CATTGTAGB--

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

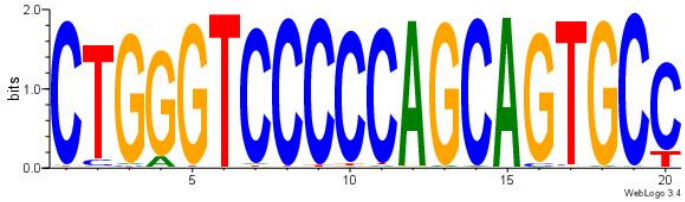

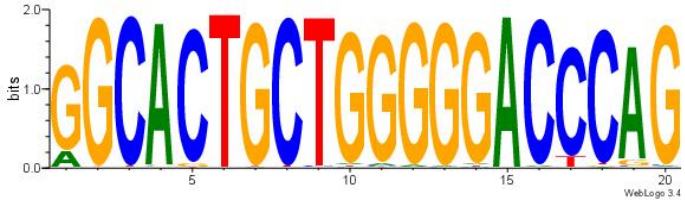

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0938076

Alignment:

```
CCCCGGGCAGTGAGGG
CATTGTAGB-------
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

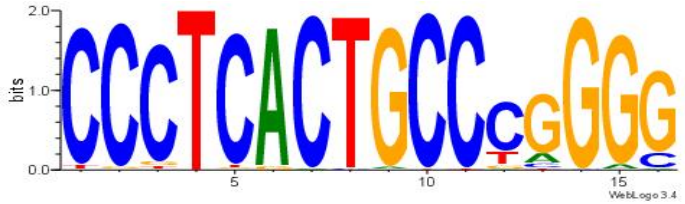

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

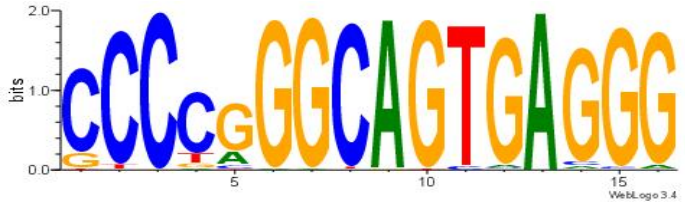

Dataset #:	1

Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0938144

Alignment:

```
CATTATGCTAARTG
CATTGTAGB-----
```

Original motif Consensus sequence: CATTATGCTAARTG

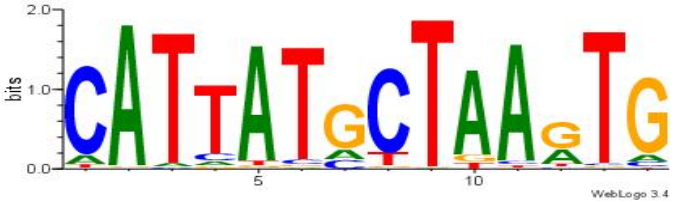

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

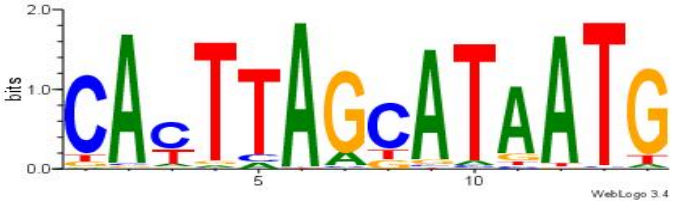

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.094054

Alignment:
GACAGGAGATTAACACTGAG
---------BCTACAATG--

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

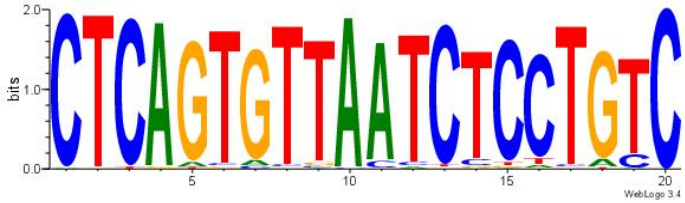

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

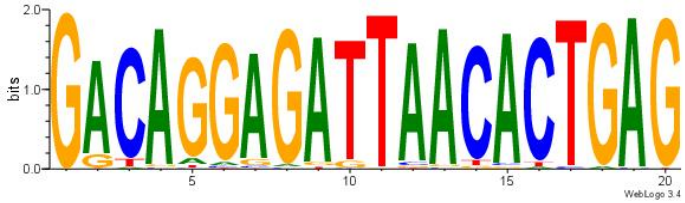

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0941014

Alignment:
TCTGGAGTGGACCTCCAGCA
BCTACAATG-----------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

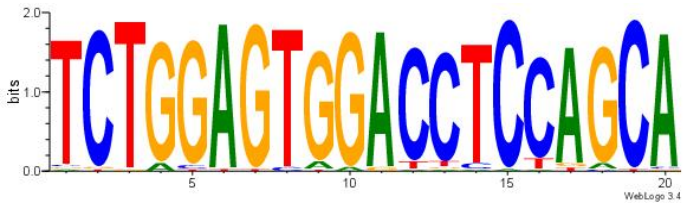

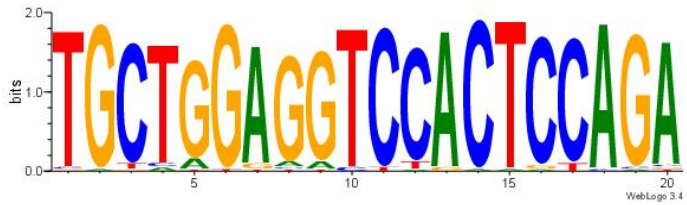

Dataset #: 1 **Motif ID: 353** **Motif name: Motif 353**

Original motif Consensus sequence: CACATGGAAGC

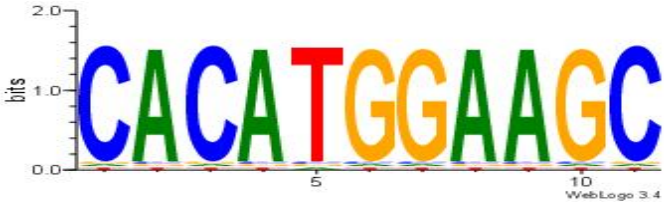

Reverse complement motif Consensus sequence: GCTTCCATGTG

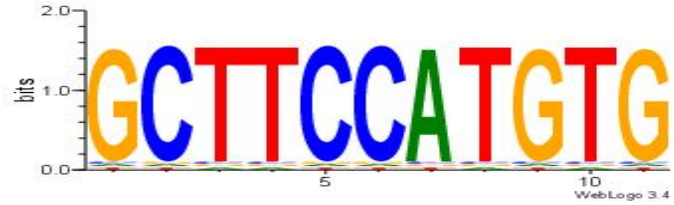

Best Matches for Significant Motif ID 353 (Highest to Lowest)

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0523615

Alignment:

```
AAGTTCTKGGKTACATGTGC
--------GCTTCCATGTG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

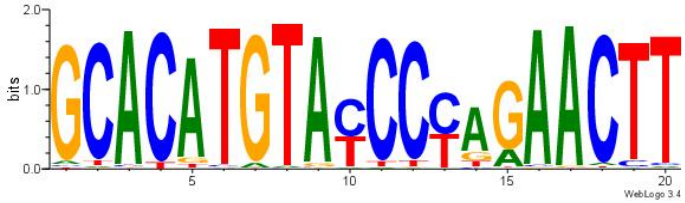

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

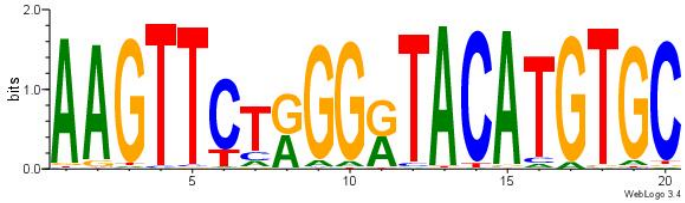

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0616894

Alignment:

```
CTCCAGKTMCATCCATGTTG
--------GCTTCCATGTG-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

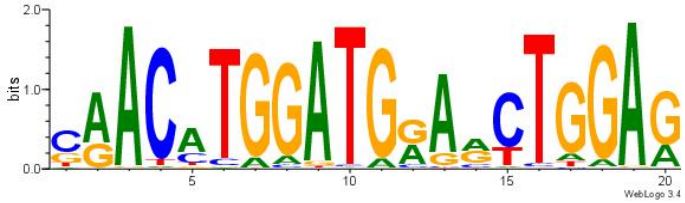

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

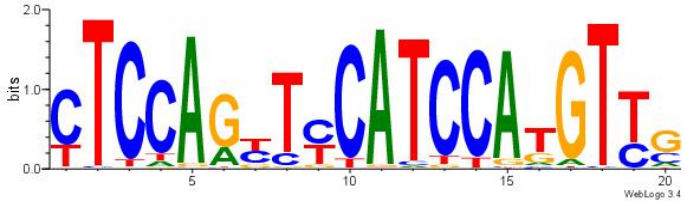

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0617739

Alignment:

```
TCCAAATGGGAGAAATTGGC
--CACATGGAAGC-------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

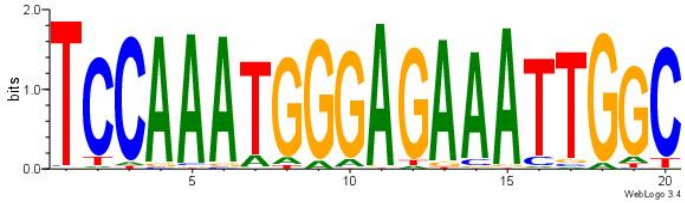

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

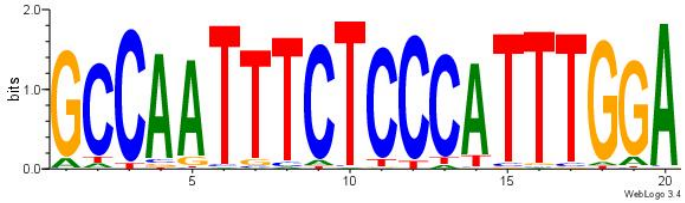

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0618096

Alignment:
GGATTTMKGACTTGCATGGG
---------GCTTCCATGTG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

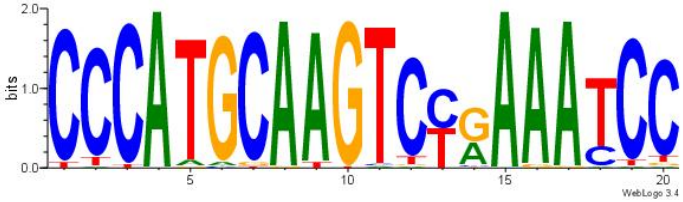

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

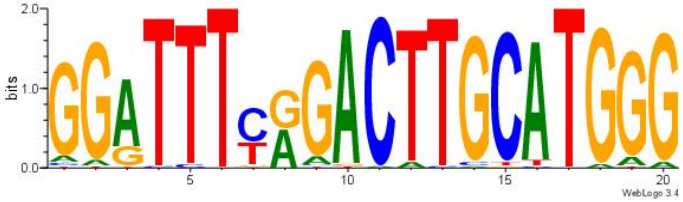

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0627655

Alignment:
GACATGGAGTCAAAGG
CACATGGAAGC-----

Original motif Consensus sequence: GACATGGAGTCAAAGG

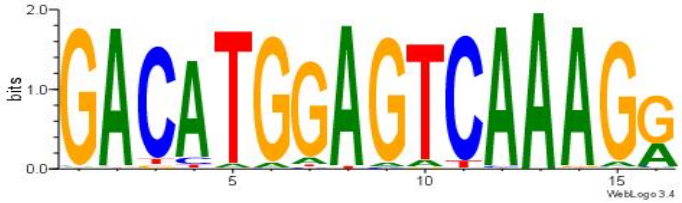

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

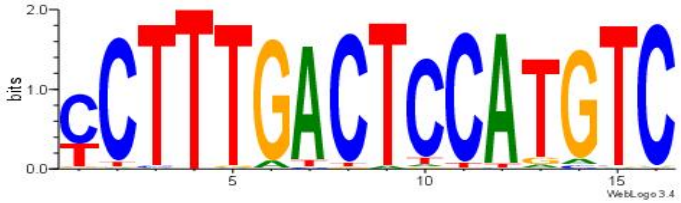

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0651571

Alignment:

```
CCACCACAGCTCAAGGAGGC
---------CACATGGAAGC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

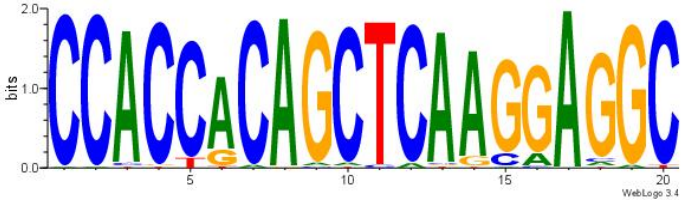

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

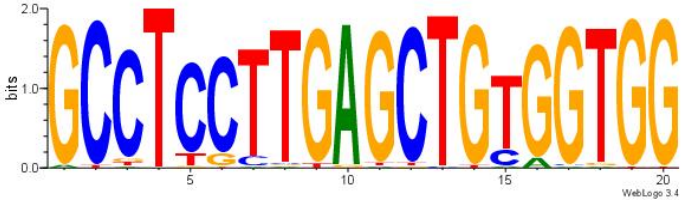

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0656819

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-------GCTTCCATGTG--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

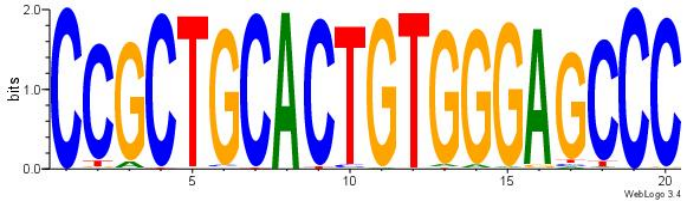

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

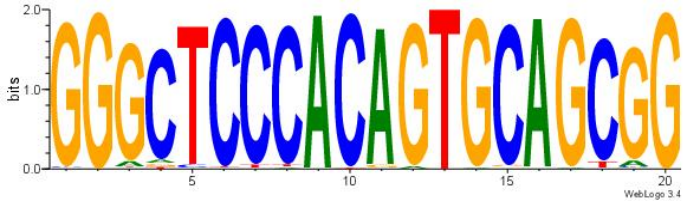

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 11
Similarity score: 0.0657801

Alignment:
TGGGCTGCCAGATG
---GCTTCCATGTG

Original motif Consensus sequence: CATCTGGCAGCCCA

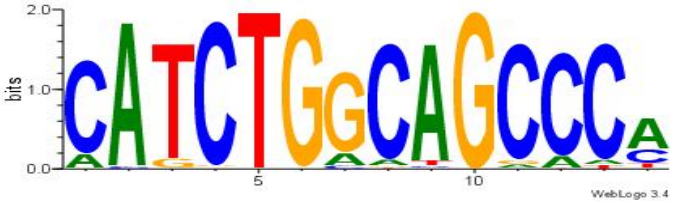

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

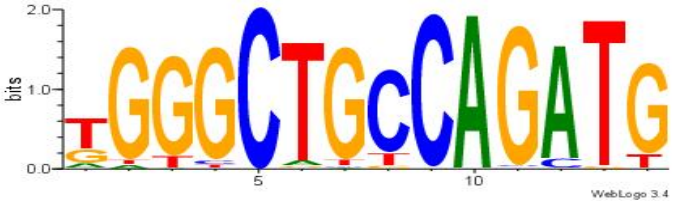

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0671037

Alignment:
CATTTGGGAGCCCATTGA
CACATGGAAGC-------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

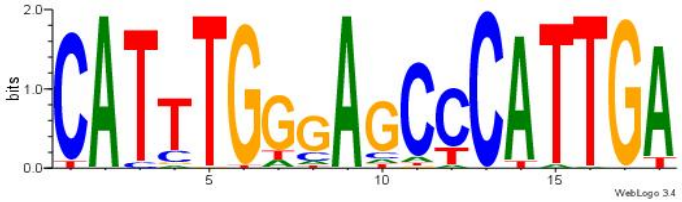

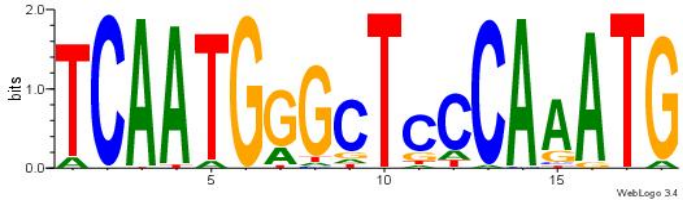

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0732369

Alignment:

```
GTACCTCAGWTGGAAATG
-CACATGGAAGC------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

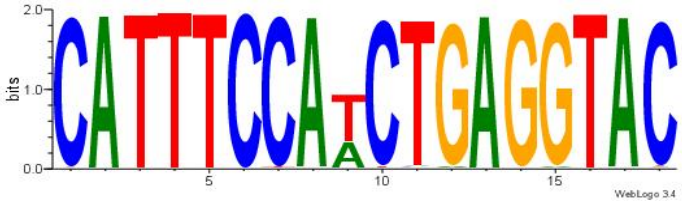

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

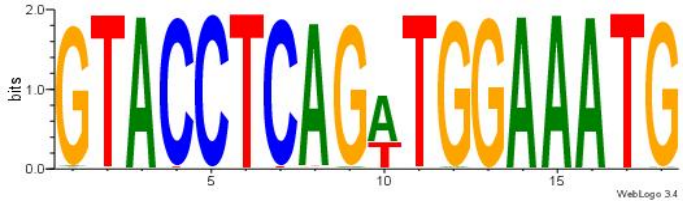

Dataset #: 1

Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0781223

Alignment:

```
GGRCKCACWGGAGC
CACATGGAAGC---
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

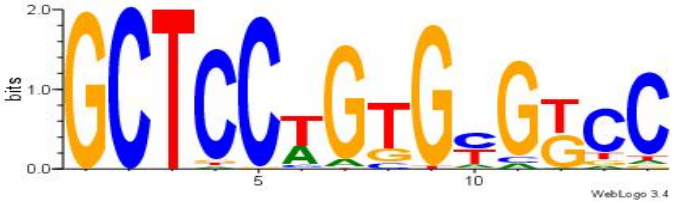

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0799402

Alignment:
ACACATCACAAAGCAGTTTC
------CACATGGAAGC---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

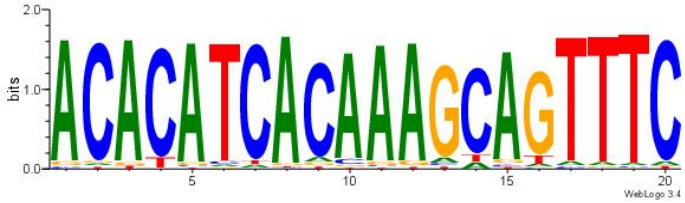

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

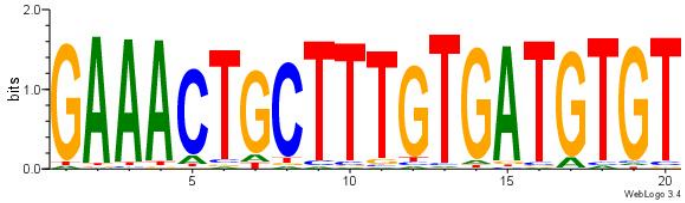

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.080419

Alignment:
TAAGTGGGAGCTAARC
CACATGGAAGC-----

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

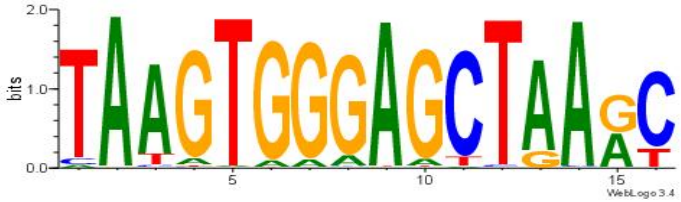

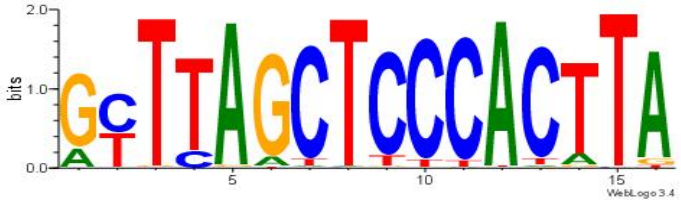

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0811512

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
-GCTTCCATGTG--------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

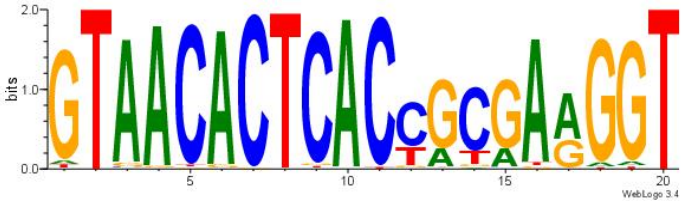

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

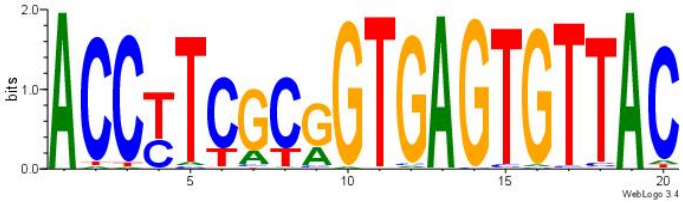

Dataset #: 1

Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0814252

Alignment:

```
ACAGCTGGCACC
-CACATGGAAGC
```

Original motif Consensus sequence: ACAGCTGGCACC

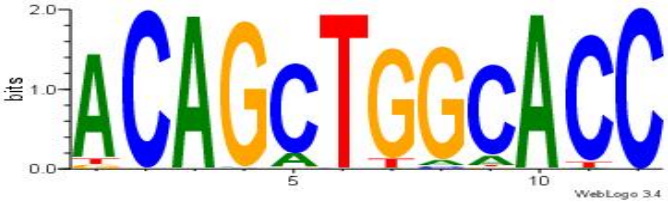

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

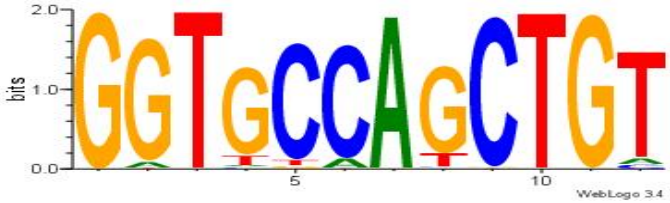

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0814347

Alignment:
AAGACCTTCCAGTGGGACAA
-----GCTTCCATGTG----

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

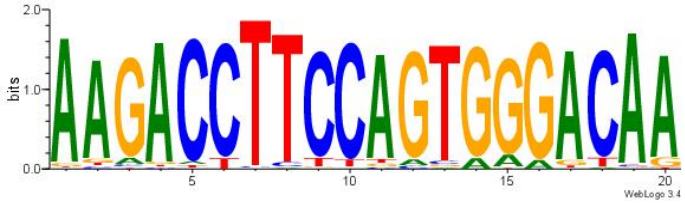

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

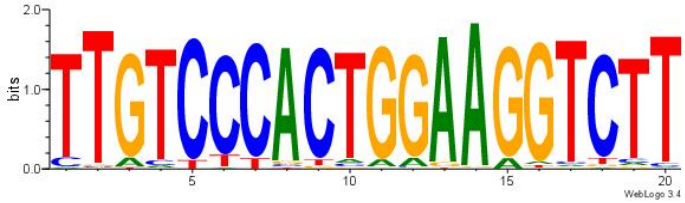

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0816622

Alignment:
AWTKKTGGTTKCCAGKGGCT
-------GCTTCCATGTG--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

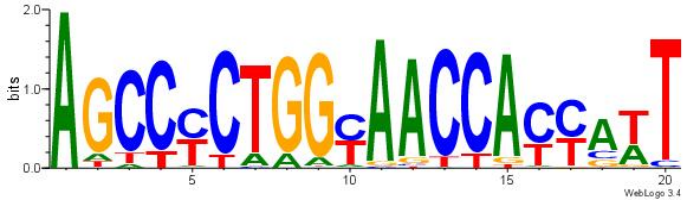

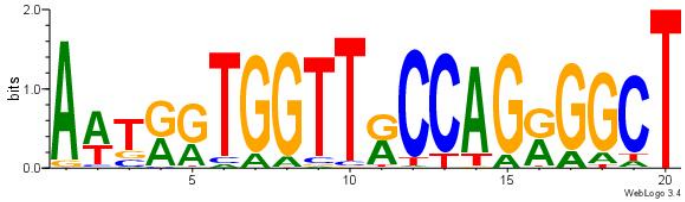

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0816827

Alignment:

```
ATGTGGAGGTGGAAGACAGT
----CACATGGAAGC-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

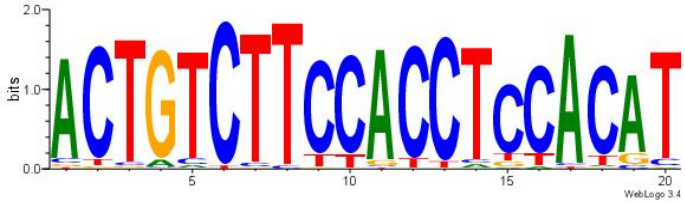

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

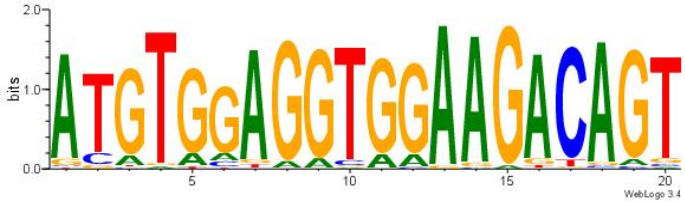

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0827741

Alignment:

```
CCCACGCCCACCCGGAACT
CACATGGAAGC--------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

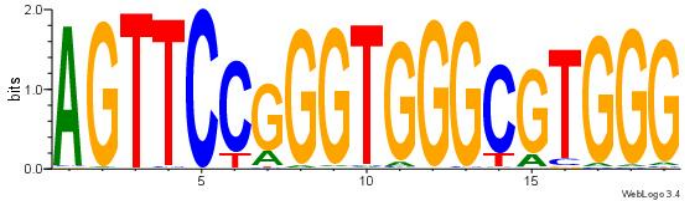

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

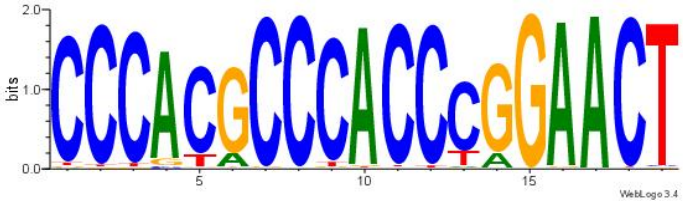

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0831758

Alignment:
ACGCCCACGGAGTCTC
---CACATGGAAGC--

Original motif Consensus sequence: ACGCCCACGGAGTCTC

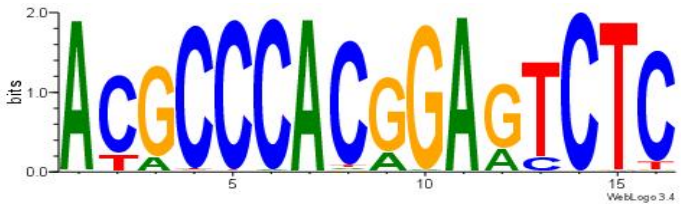

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

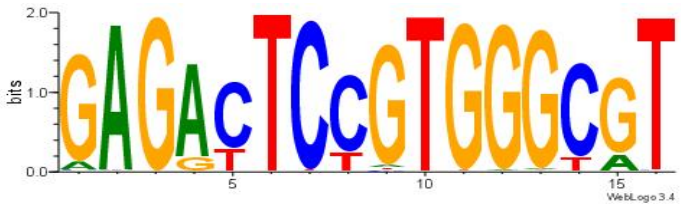

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0835828

Alignment:
CTGTTTGCCTGGGTATCA
--GCTTCCATGTG-----

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

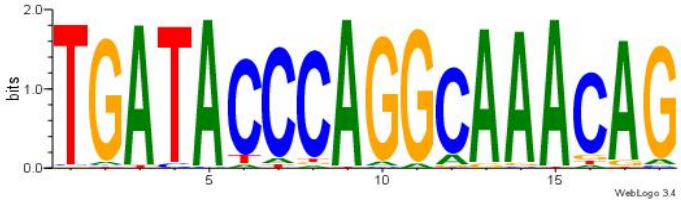

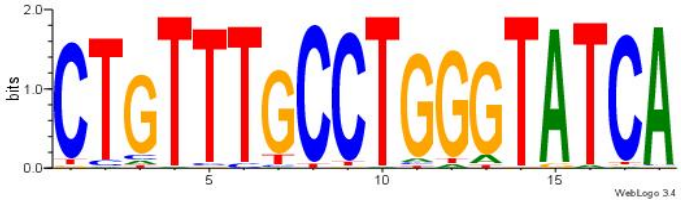

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0840384

Alignment:

```
GCTCTCAATTGGTCATT
GCTTCCATGTG------
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

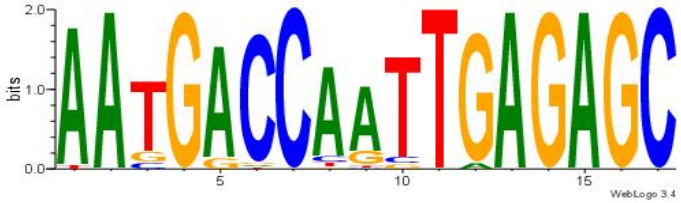

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

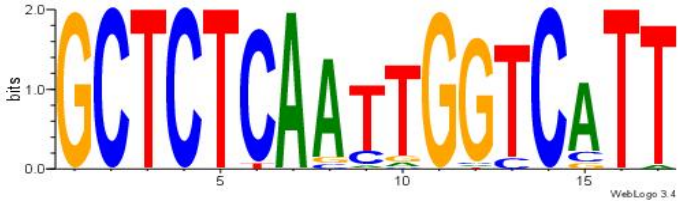

Dataset #: 1

Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.084587

Alignment:

```
GCCGCCATCTTG
GCTTCCATGTG-
```

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

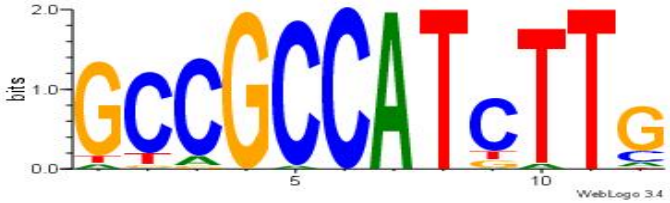

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0847344

Alignment:
GGTTCATCTCACTAGGGAGT
---------CACATGGAAGC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

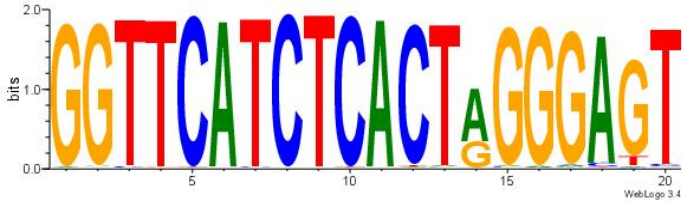

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

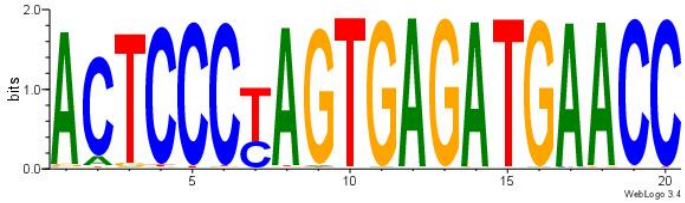

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0852138

Alignment:
TGGACCTGAGAGC
CACATGGAAGC--

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

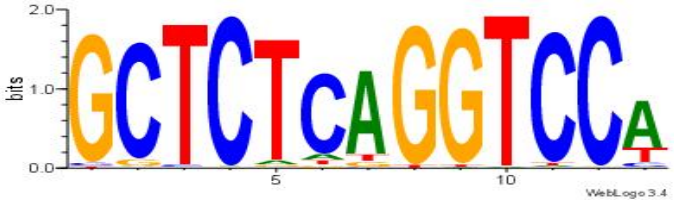

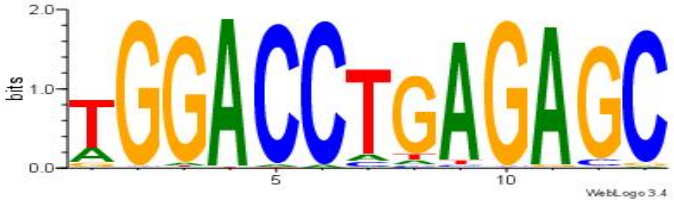

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.085703

Alignment:

```
TGGGGCTCCAGATG
---GCTTCCATGTG
```

Original motif Consensus sequence: CATCTGGAGCCCCA

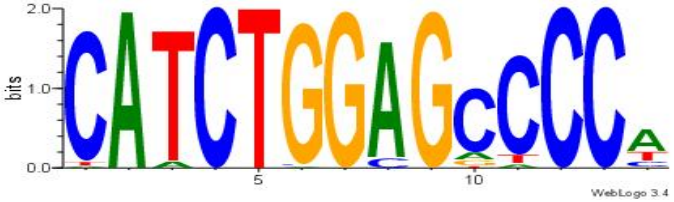

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

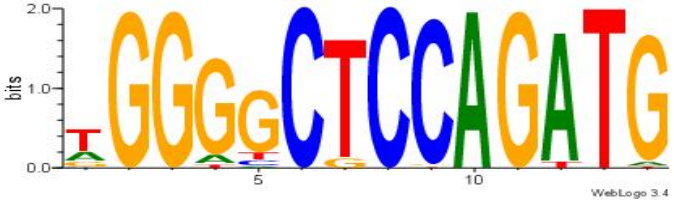

Dataset #:	1
Motif ID:	191

Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.086725

Alignment:

```
AAAGTGCCGAGAKTGCAGC
--------CACATGGAAGC
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

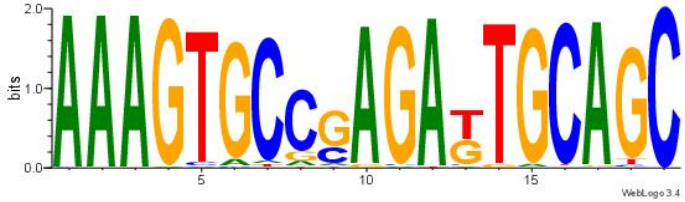

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

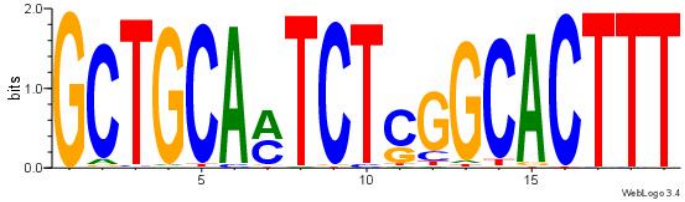

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0869647

Alignment:
AGGACTGAGGGTGCCYRGGG
GCTTCCATGTG---------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

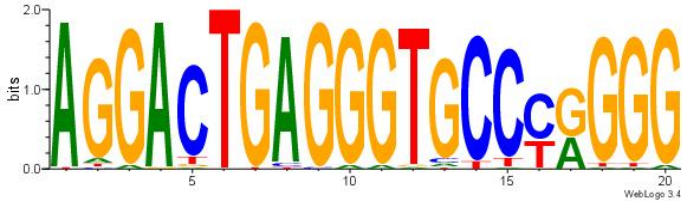

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

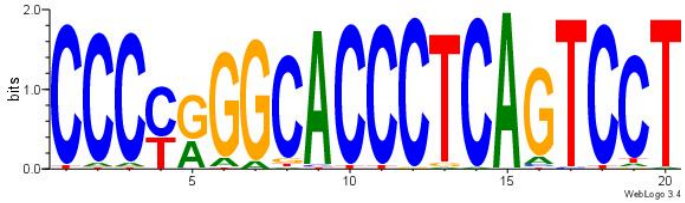

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0872637

Alignment:
CTACATGGACCTT
-CACATGGAAGC-

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

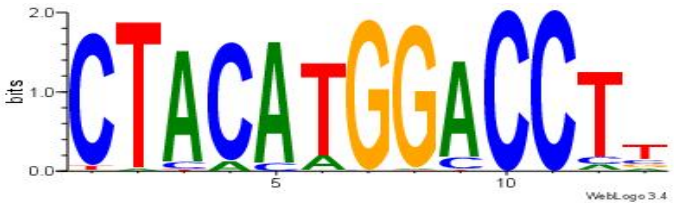

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0879026

Alignment:

```
CGGCTTCATTCTTGAAGTC
--GCTTCCATGTG------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

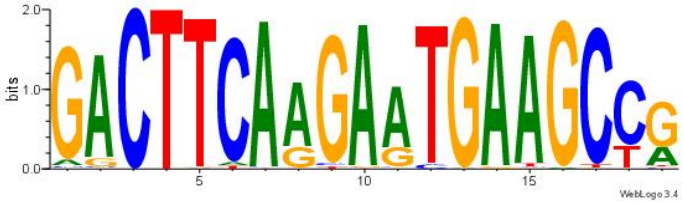

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

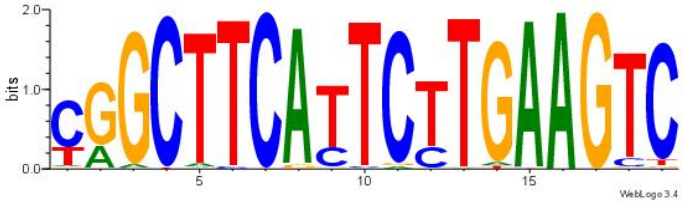

Dataset #: 1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.08887

Alignment:

```
GTTGTGAGGATTAAATGAG
--------GCTTCCATGTG
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

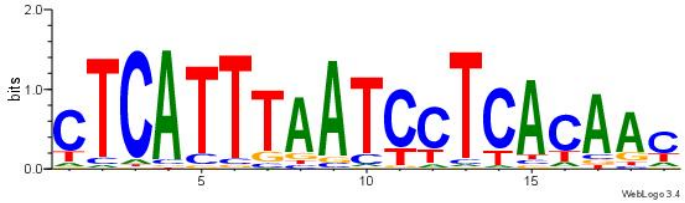

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

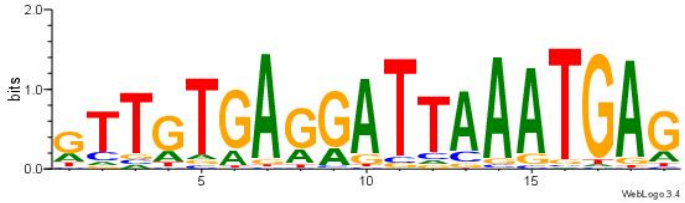

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0894306

Alignment:
CACTAGGGAGTGCC
CACATGGAAGC---

Original motif Consensus sequence: CACTAGGGAGTGCC

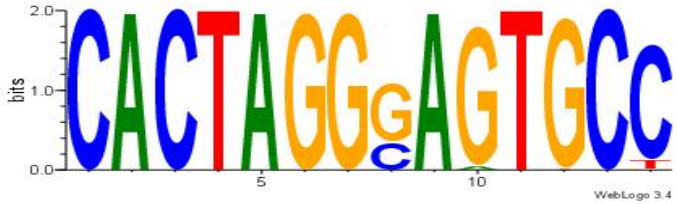

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

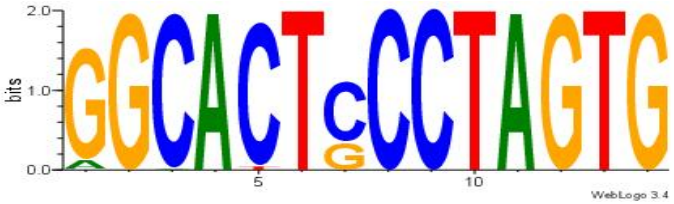

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0911728

Alignment:
AGTGTTTCCAAMCTGCT
---GCTTCCATGTG---

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

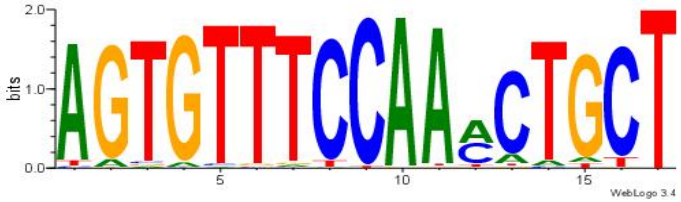

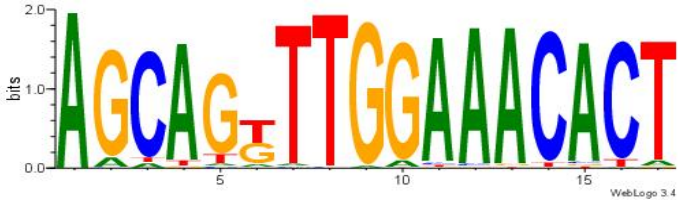

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0934123

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-------GCTTCCATGTG--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

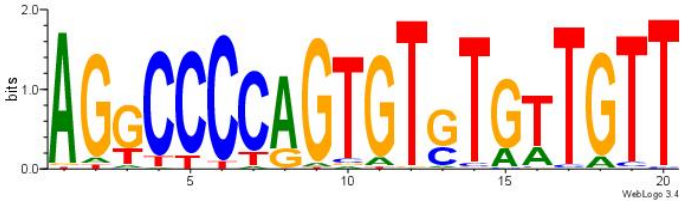

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

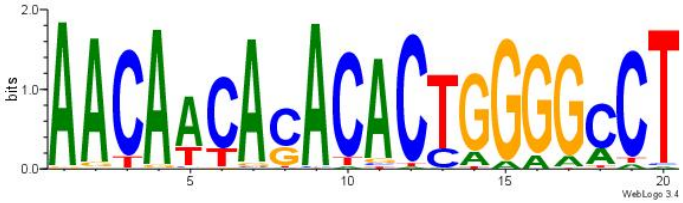

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0947715

Alignment:

```
CAAGTTGACACATAAAATTA
--------CACATGGAAGC-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

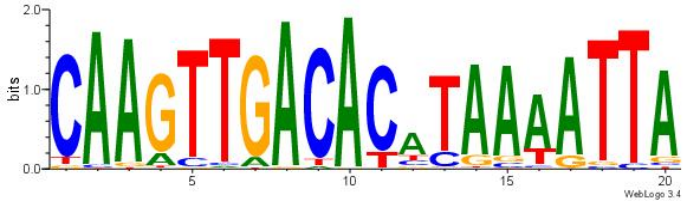

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

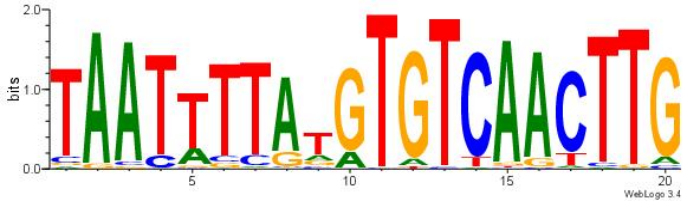

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0953352

Alignment:
CCTAGATTTCAGARGATGT
----GCTTCCATGTG----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

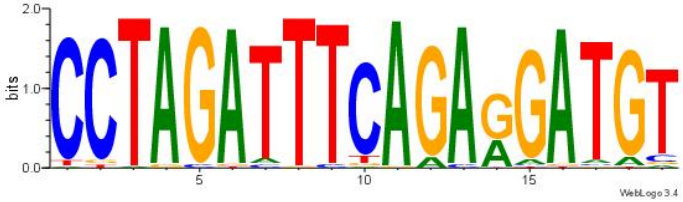

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

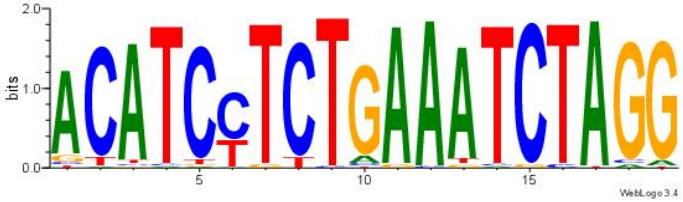

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0963353

Alignment:
AAAATCACAAGCATTCCTAT
-----CACATGGAAGC----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

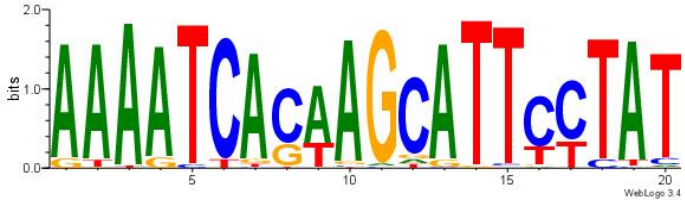

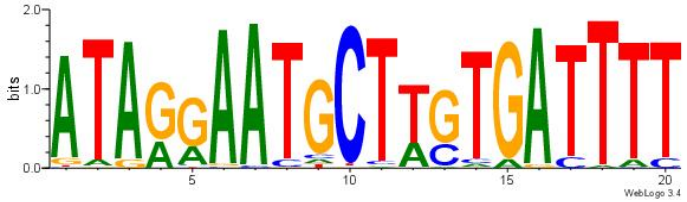

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0974426

Alignment:

```
CTTGCGCTTCCCRRGTGA
--GCTTCCATGTG-----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

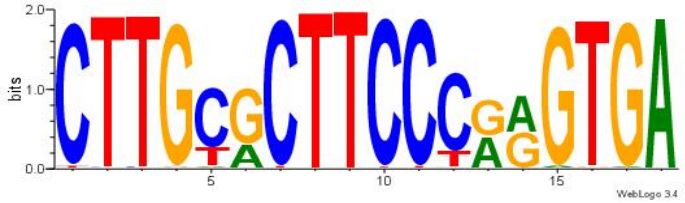

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

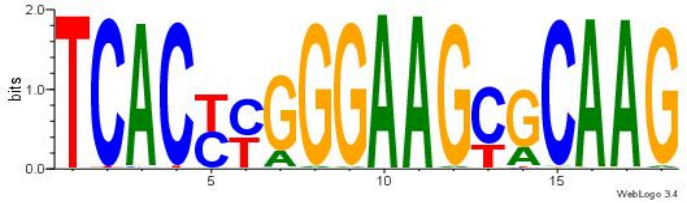

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0978843

Alignment:

```
CCCTGCTAGAACCTCCAA
--CACATGGAAGC-----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

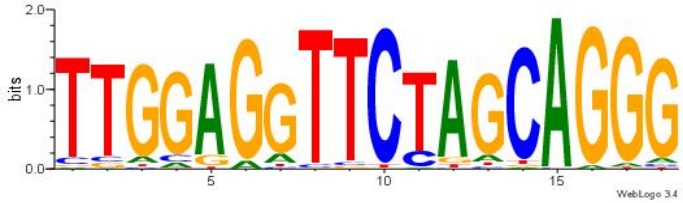

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0986423

Alignment:
AGCTCCCAGCGTGAGCGACG
--------GCTTCCATGTG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

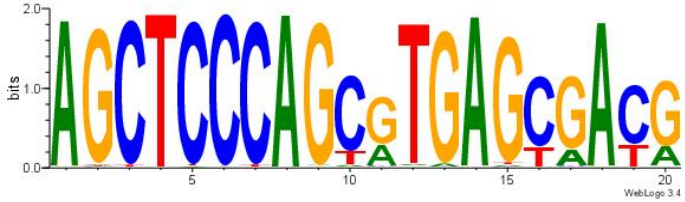

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

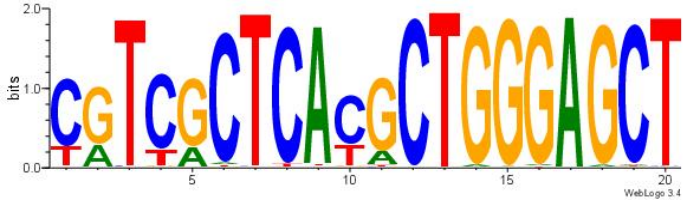

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0990424

Alignment:
AGGAACAGCTCCRGTCTAC
-GCTTCCATGTG-------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

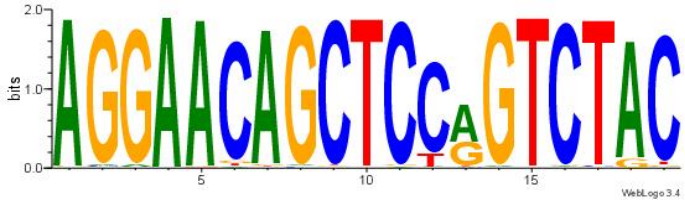

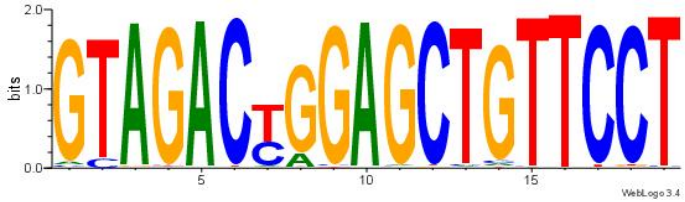

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0990528

Alignment:

```
GGGRSCACAGGAGCD
-CACATGGAAGC---
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

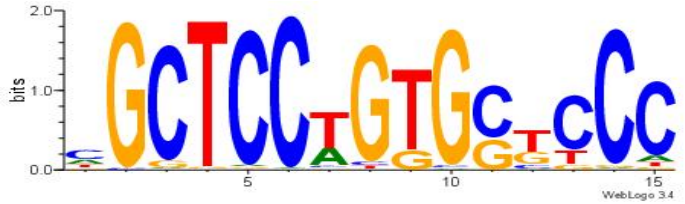

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

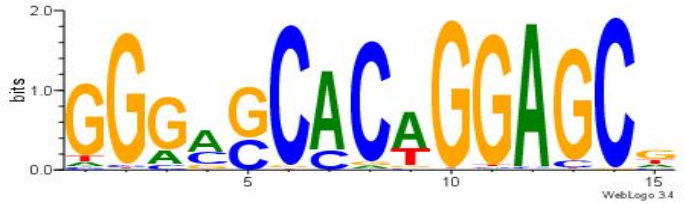

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0990948

Alignment:

```
GGATCCACTGGGTGAAGCCA
---------GCTTCCATGTG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

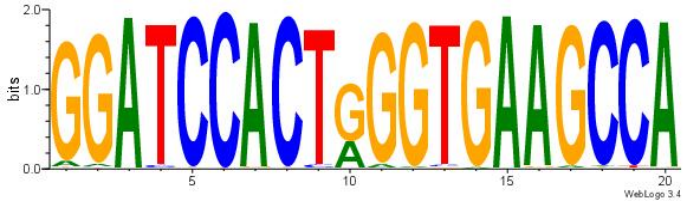

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

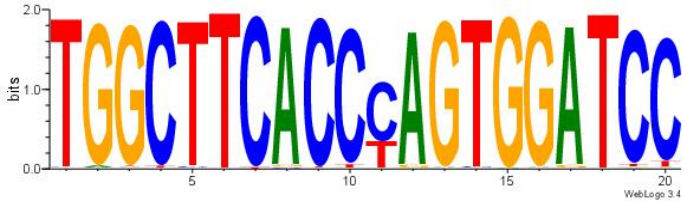

Dataset #:	1
Motif ID:	126
Motif name:	Motif 126
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0991254

Alignment:
AYGCCTGTAATC
-CACATGGAAGC

Original motif Consensus sequence: AYGCCTGTAATC

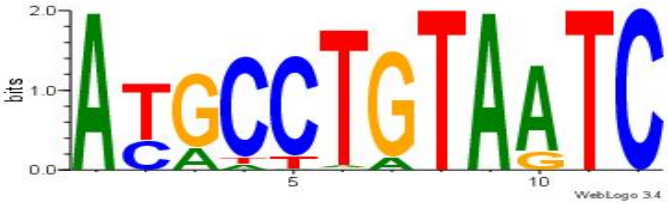

Reverse complement motif Consensus sequence: GATTACAGGCMT

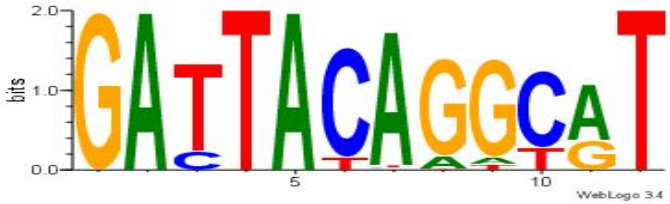

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0995422

Alignment:
ACTCAGCCCRCCTGCACCC
--------CACATGGAAGC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

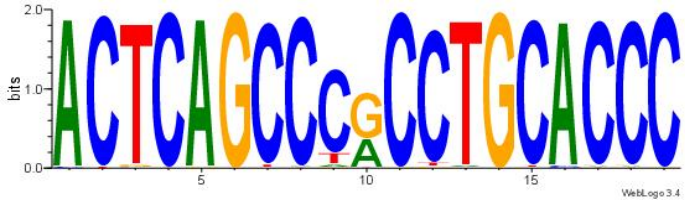

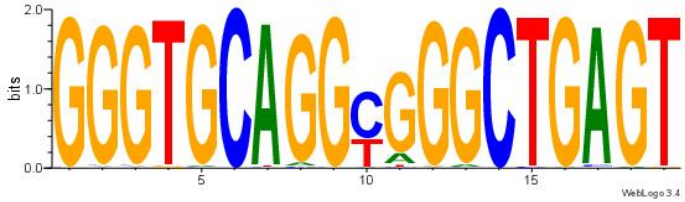

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0995719

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GCTTCCATGTG---------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

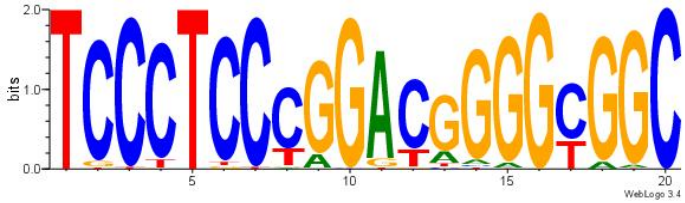

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

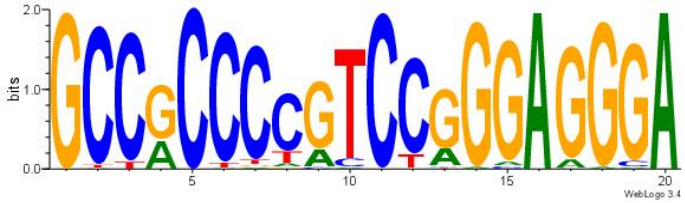

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0997246

Alignment:

```
CTGACTGGGAGACACCTCCC
--CACATGGAAGC-------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

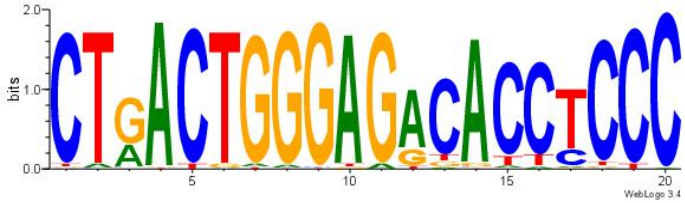

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

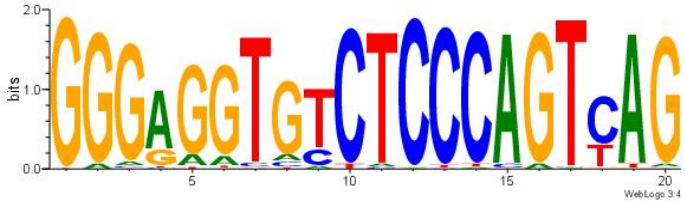

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0997611

Alignment:
CCCTCACTGCCCGGGG
GCTTCCATGTG-----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

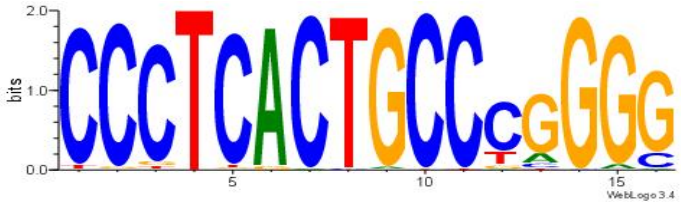

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

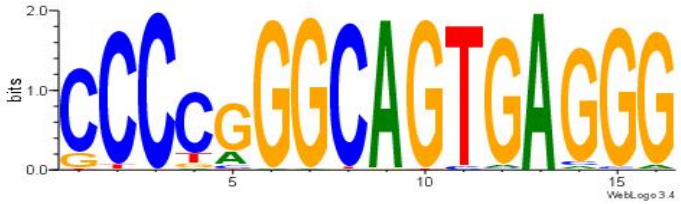

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0998063

Alignment:
TWTACCTATGTAACAAACCT
-----CACATGGAAGC----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

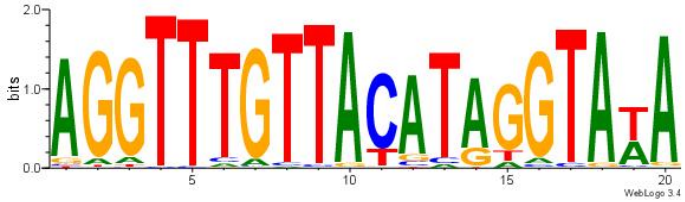

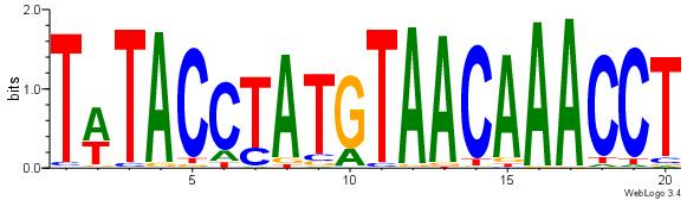

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.100069

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
------GCTTCCATGTG---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

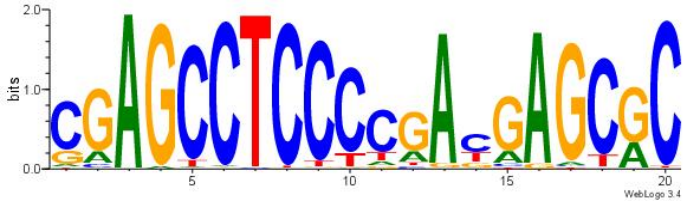

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

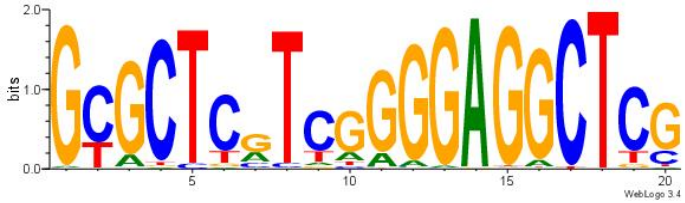

Dataset #: 1 Motif ID: 114 Motif name: Motif 114

Original motif Consensus sequence: CTACGTTCTC

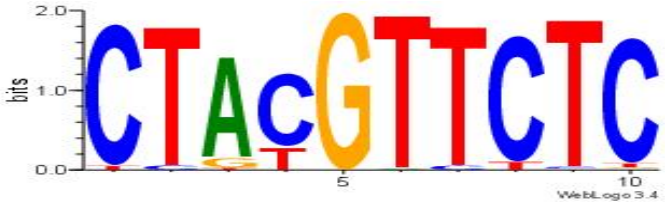

Reverse complement motif Consensus sequence: GAGAACGTAG

Best Matches for Significant Motif ID 114 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0559267

Alignment:

```
AAAMAMMKMATGTTCTCACT
---CTACGTTCTC-------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

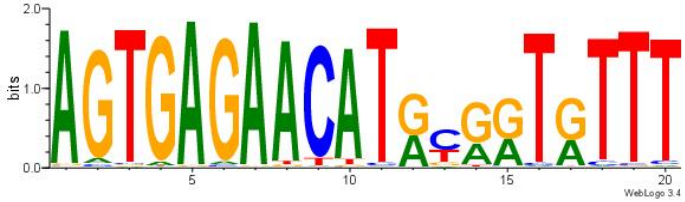

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

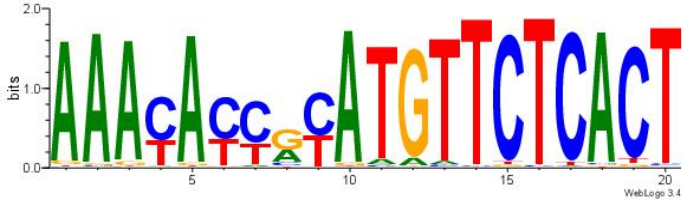

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0641267

Alignment:

```
TCCAAATGGGAGAAATTGGC
---------GAGAACGTAG-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

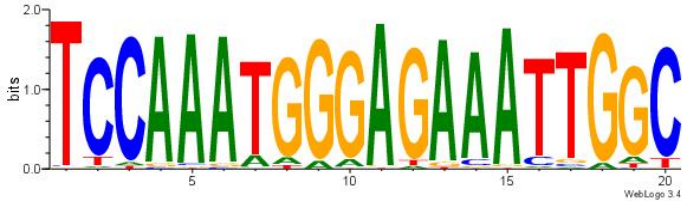

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

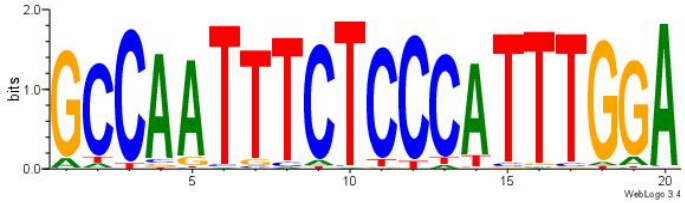

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 10
Similarity score: 0.064949

Alignment:
TGTCCATGTGTTCTC
-----CTACGTTCTC

Original motif Consensus sequence: GAGAACACATGGACA

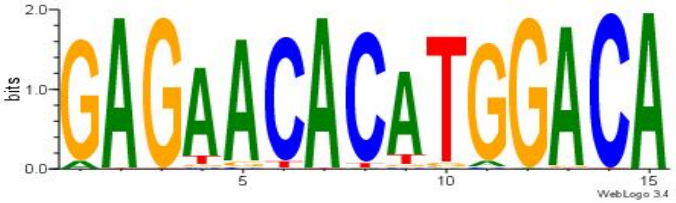

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

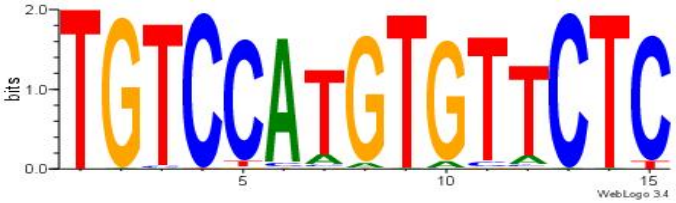

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0660371

Alignment:
CATTAGATTCTCATAGGA
--CTACGTTCTC------

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

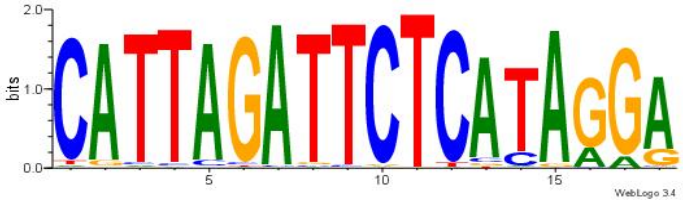

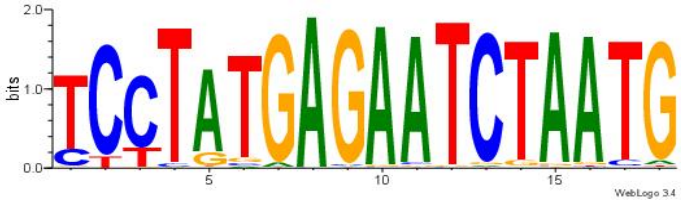

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0692709

Alignment:

```
CAGACTGCCTCCTCAA
----CTACGTTCTC--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

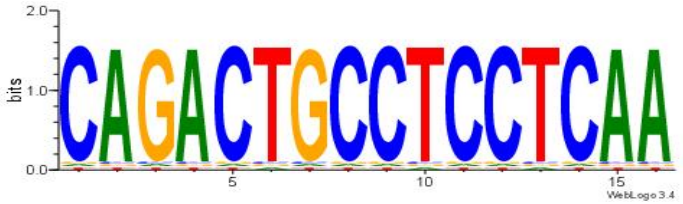

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

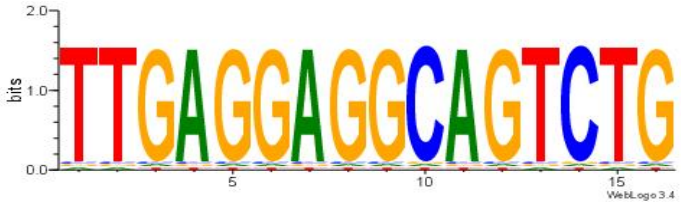

Dataset #: 1

Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.073001

Alignment:

```
CCATGTGSTCCC
CTACGTTCTC--
```

Original motif Consensus sequence: CCATGTGSTCCC

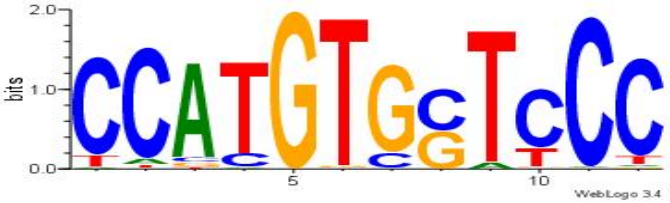

Reverse complement motif Consensus sequence: GGGASCACATGG

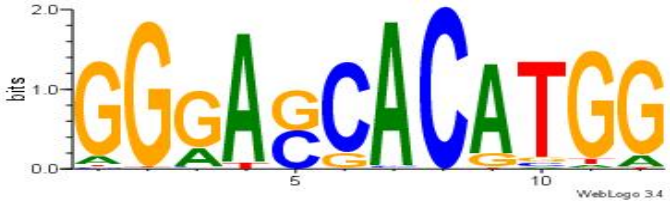

Dataset #:	1
Motif ID:	365
Motif name:	Motif 365
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0739854

Alignment:
GTAGACCGGAGCT
-GAGAACGTAG--

Original motif Consensus sequence: AGCTCCGGTCTAC

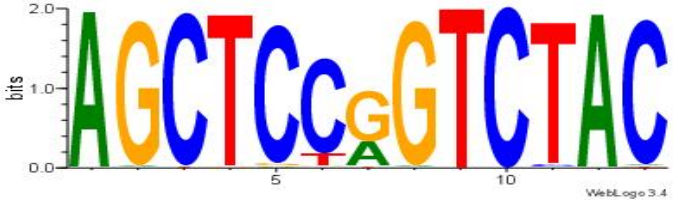

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

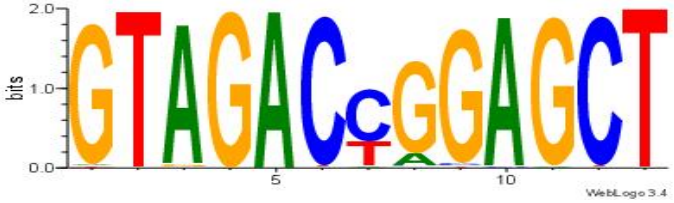

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0769875

Alignment:
GCTGCARTCTCGGCACTTT
-CTACGTTCTC--------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

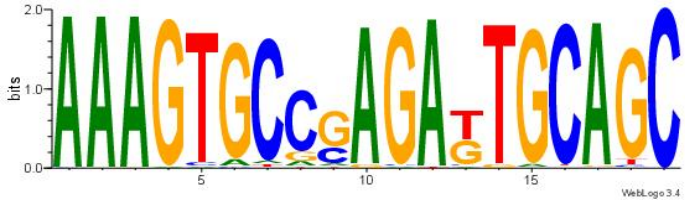

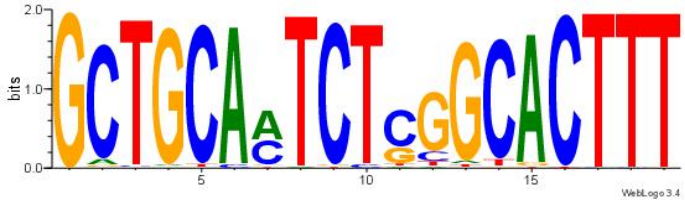

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0776136

Alignment:

```
VMATTTAKTGAGCACCTACT
---------GAGAACGTAG-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

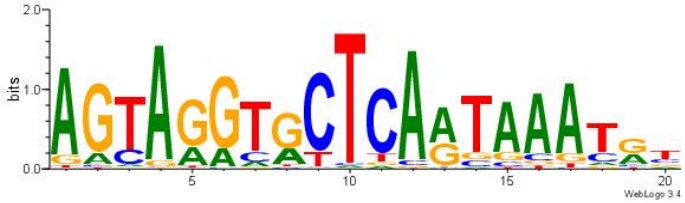

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

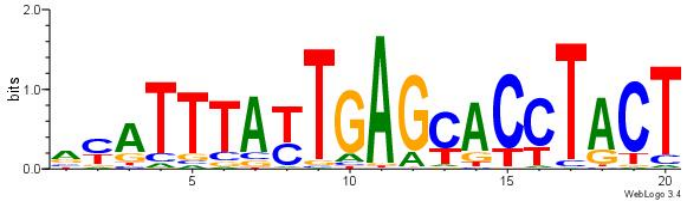

Dataset #: 1

Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0776181

Alignment:

```
CTGYGTCCCCA
CTACGTTCTC-
```

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

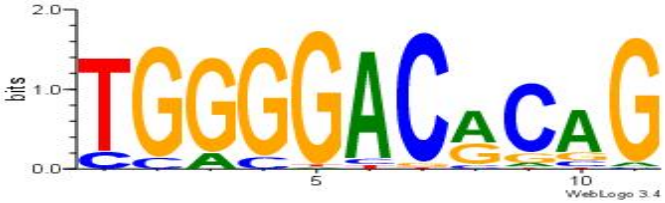

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0785757

Alignment:
CCCGAAGCTGCRYRCTCGGT
-------CTACGTTCTC---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

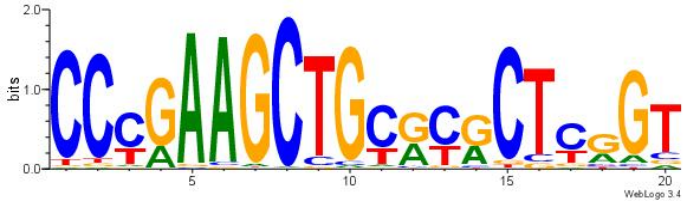

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

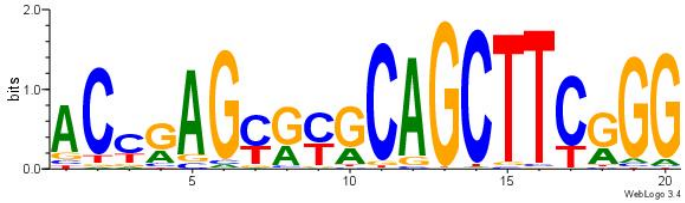

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0786326

Alignment:
TMGGGAGGCTGAGGCAGGAG
----------GAGAACGTAG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

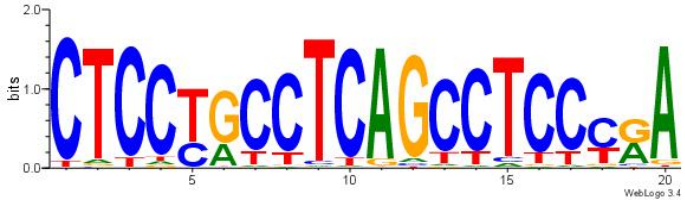

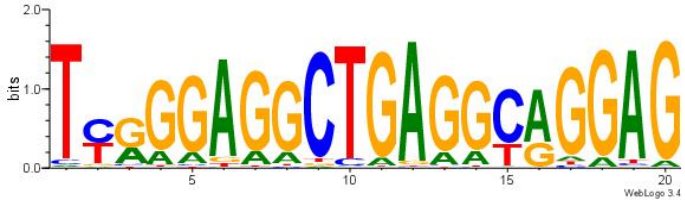

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.080546

Alignment:

```
TGGAGAACCTTTATGTCTAG
--GAGAACGTAG--------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

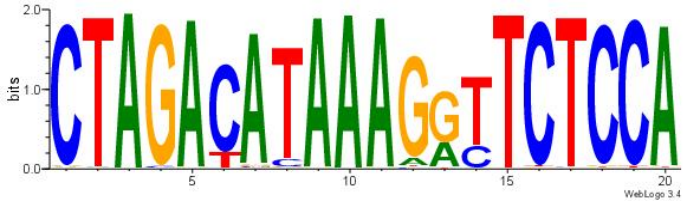

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

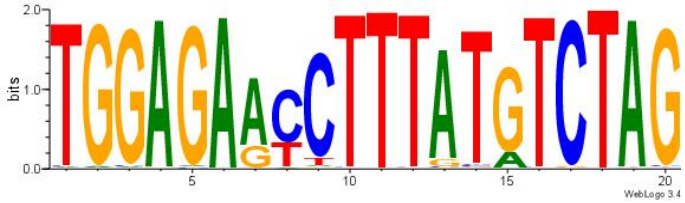

Dataset #:	1

Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.080733

Alignment:

```
CTASAACCTCCA
CTACGTTCTC--
```

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

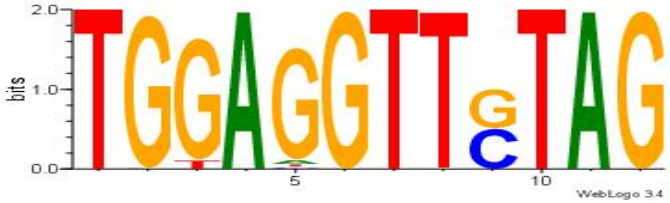

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0812461

Alignment:
MGGAAACTGAGGC
-GAGAACGTAG--

Original motif Consensus sequence: GCCTCAGTTTCCY

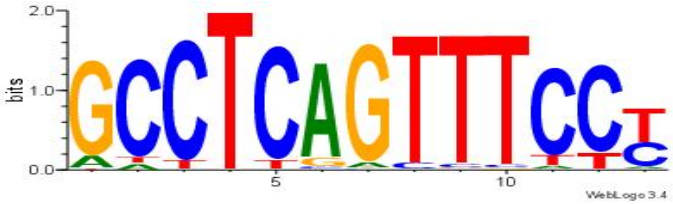

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

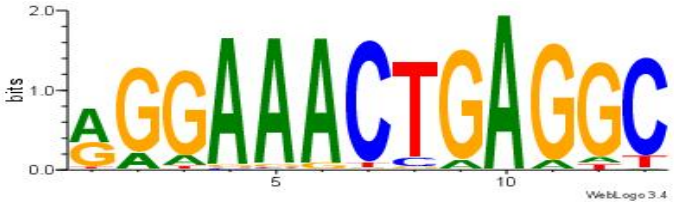

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0815636

Alignment:
GCAGTGAGCYRAGA
-GAGAACGTAG---

Original motif Consensus sequence: GCAGTGAGCYRAGA

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

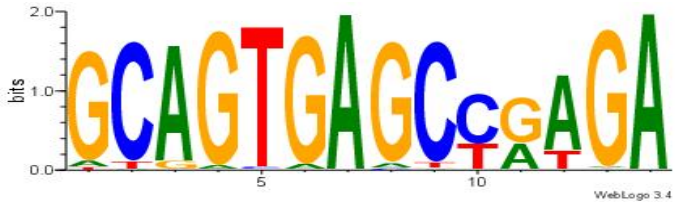

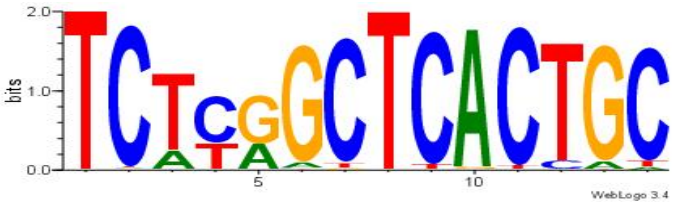

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0819197

Alignment:

```
GACTTCAAGAATGAAGCCG
------GAGAACGTAG---
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

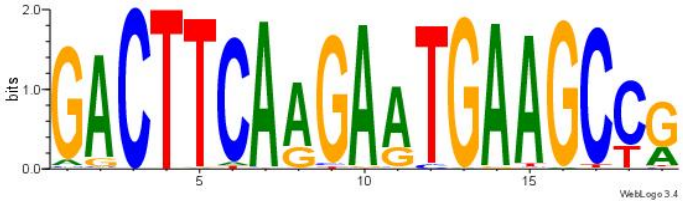

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

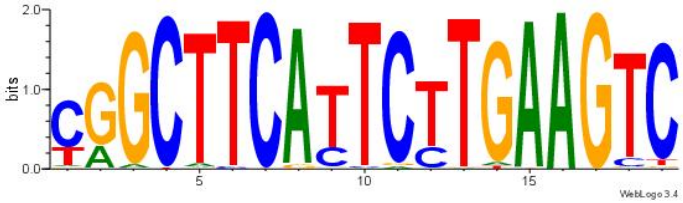

Dataset #: 1

Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0819558

Alignment:

```
KGAGAACAGTAGGG
-GAGAACGTAG---
```

Original motif Consensus sequence: CCCTACTGTTCTCY

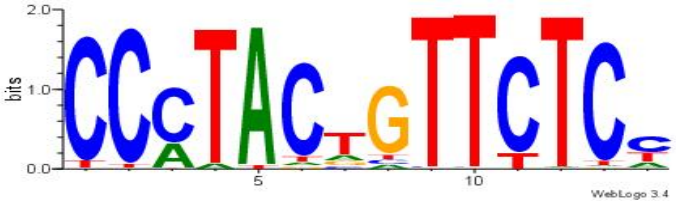

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0828256

Alignment:
AGGAACAGCTCCRGTCTAC
--------CTACGTTCTC-

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

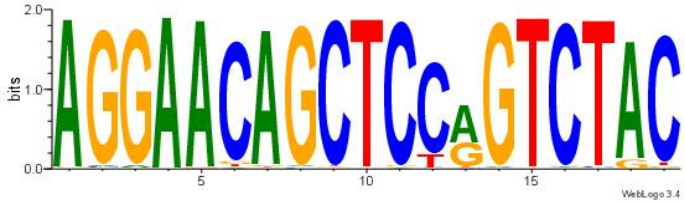

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

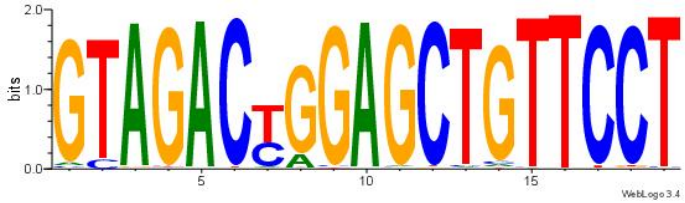

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0833662

Alignment:
GCGMGCGGGAACCGGGGCT
------GAGAACGTAG---

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

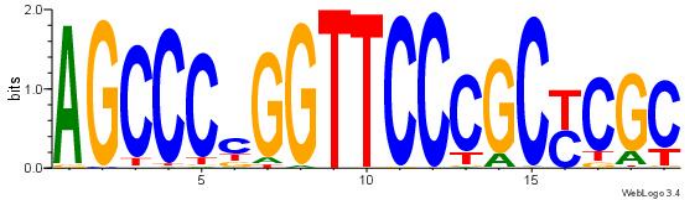

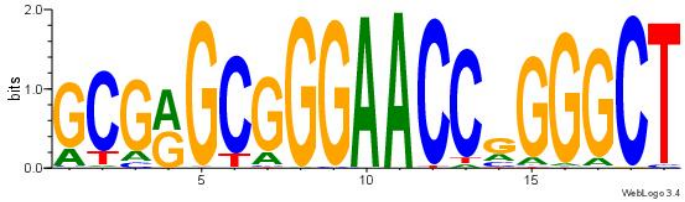

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0835747

Alignment:

```
TGTGACCTTGG
-GAGAACGTAG
```

Original motif Consensus sequence: CCAAGGTCACA

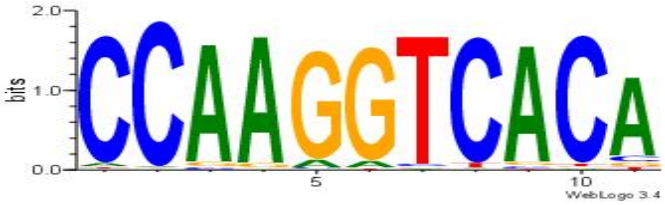

Reverse complement motif Consensus sequence: TGTGACCTTGG

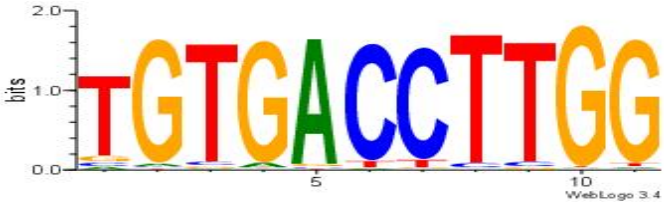

Dataset #:	1
Motif ID:	329

Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0851936

Alignment:

```
GGGAGGGATATATTAGC
------GAGAACGTAG-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

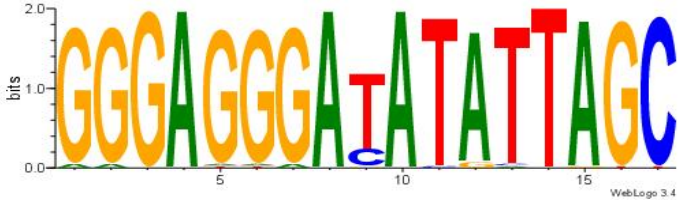

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

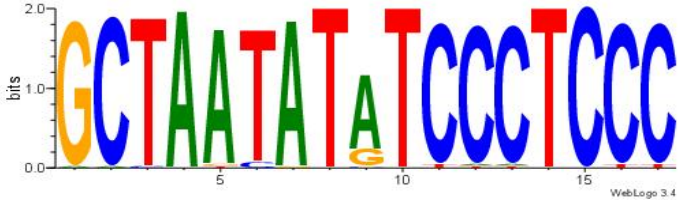

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.085593

Alignment:
TTGAGACMGKGTCT
--GAGAACGTAG--

Original motif Consensus sequence: AGACYCYGTCTCAA

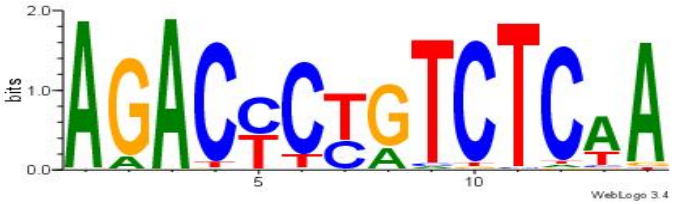

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

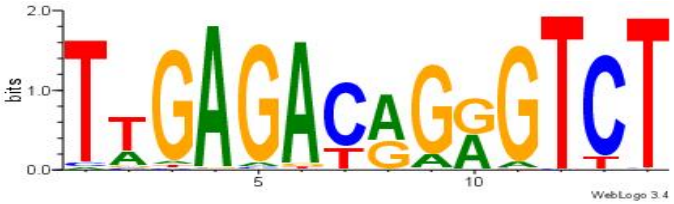

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0859725

Alignment:
GTGGCCCTCTTCTCACAGCT
----CTACGTTCTC------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

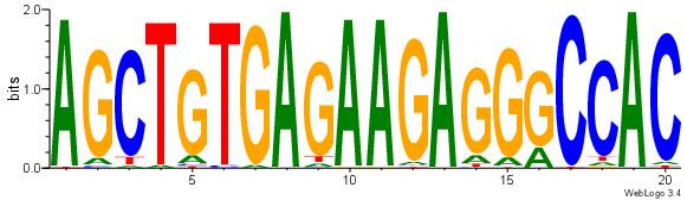

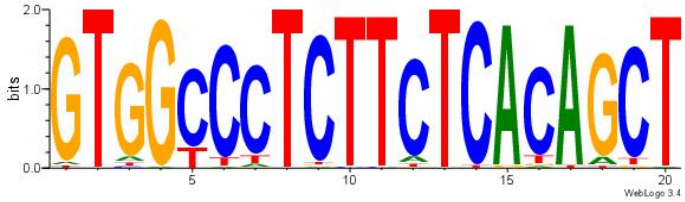

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.086239

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CTACGTTCTC----------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

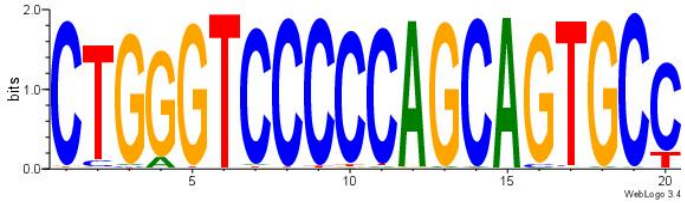

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

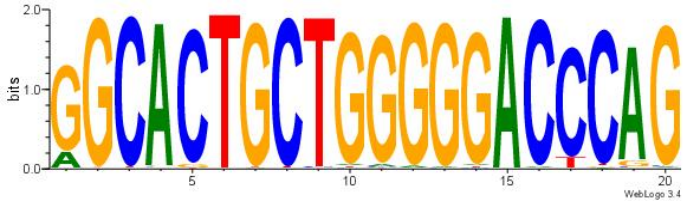

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.087084

Alignment:

```
CACCAGGAGATTATATCCCR
----GAGAACGTAG------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

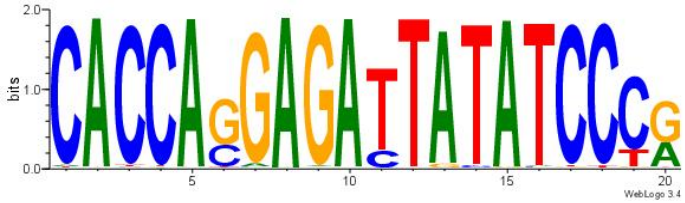

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

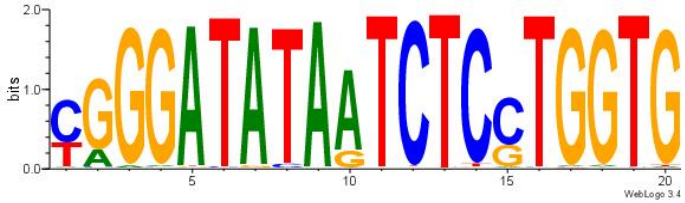

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0873119

Alignment:
KGCAACCTAGATCCCT
GAGAACGTAG------

Original motif Consensus sequence: AGGGATCTAGGTTGCR

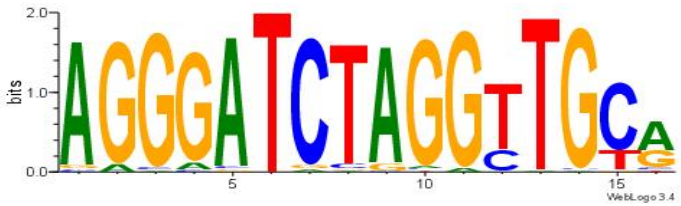

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

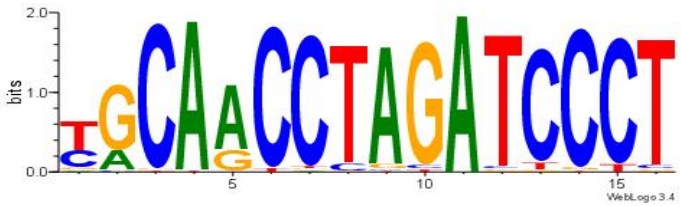

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0874909

Alignment:
AAAGCTGGAGCTATTATCTA
----------CTACGTTCTC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

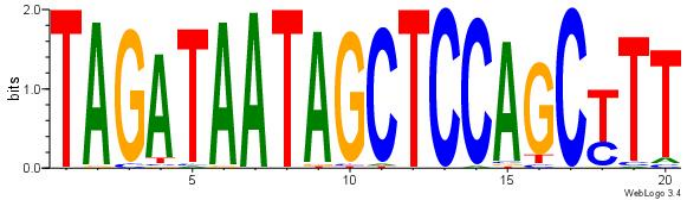

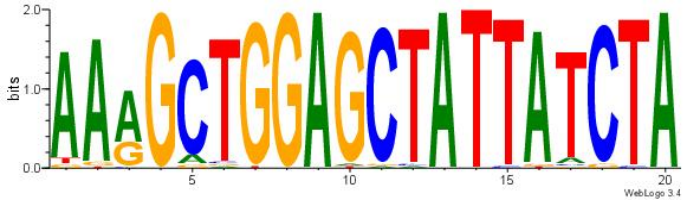

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.087649

Alignment:

```
TCAATGGGCTCCCAAATG
-CTACGTTCTC-------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

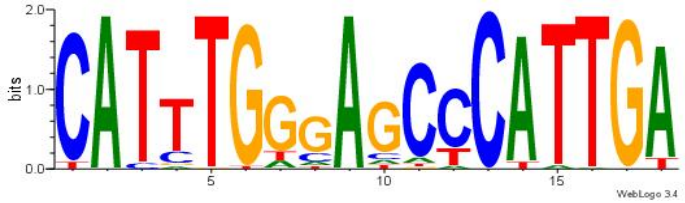

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

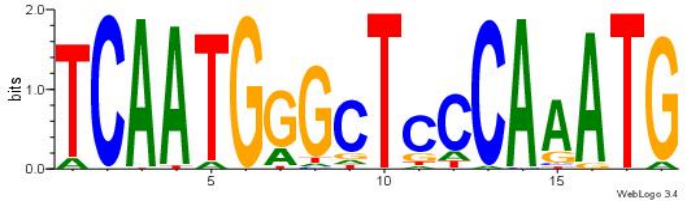

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0880942

Alignment:

```
CATTCTGGGGTCTGGAGGAY
----CTACGTTCTC------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

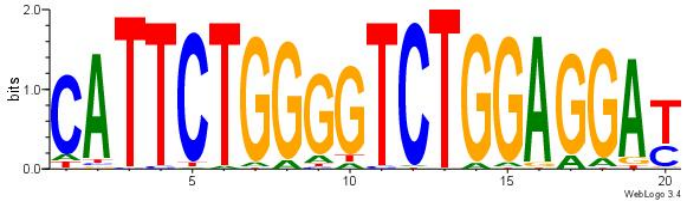

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

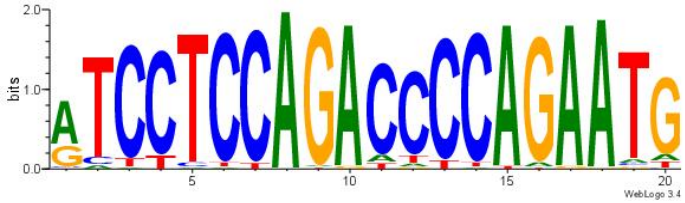

Dataset #:	1
Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0891416

Alignment:
TTGAGAACCACTG
--GAGAACGTAG-

Original motif Consensus sequence: CAGTGGTTCTCAA

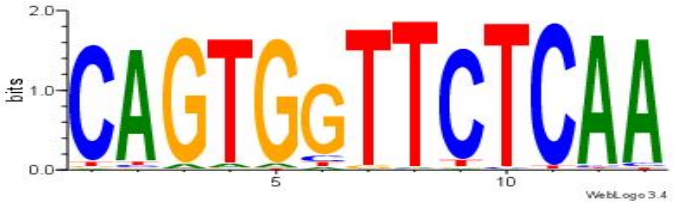

Reverse complement motif Consensus sequence: TTGAGAACCACTG

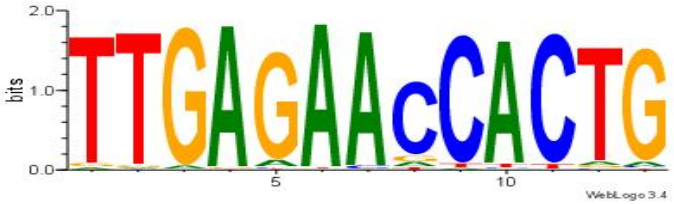

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0897345

Alignment:
TAMGACCTCAGGTCCTCAG
-------CTACGTTCTC--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

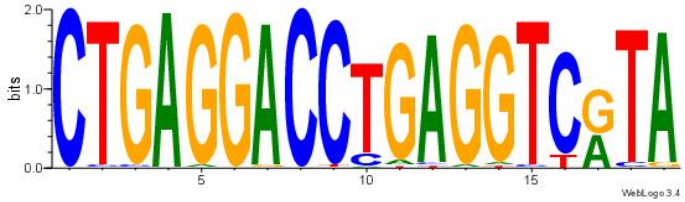

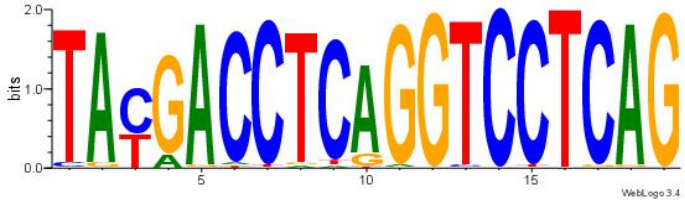

Dataset #:	1
Motif ID:	131
Motif name:	Motif 131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0903731

Alignment:

```
CCTGGGTTCAA
-CTACGTTCTC
```

Original motif Consensus sequence: CCTGGGTTCAA

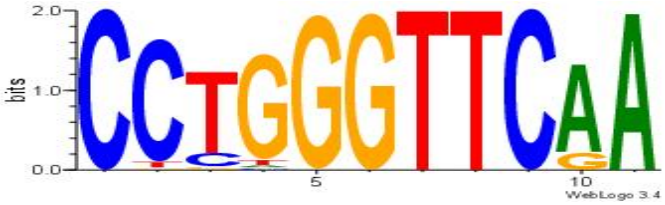

Reverse complement motif Consensus sequence: TTGAACCCAGG

Dataset #:	1
Motif ID:	242

Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0906191

Alignment:

```
AACCCTATTGTGAACTGYG
---------GAGAACGTAG
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

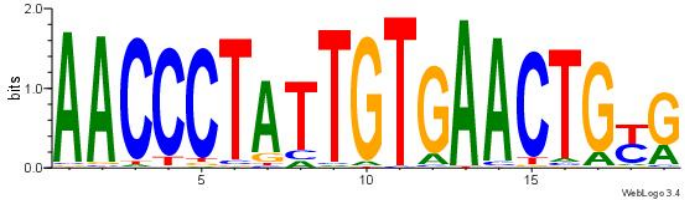

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

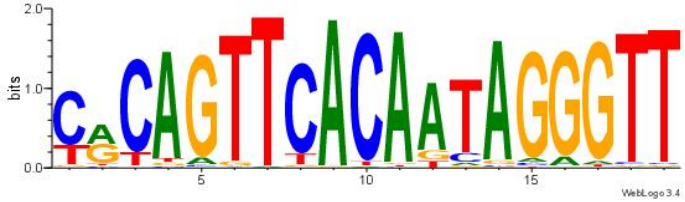

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0915707

Alignment:
GAAACTGCTTTGTGATGTGT
----CTACGTTCTC------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

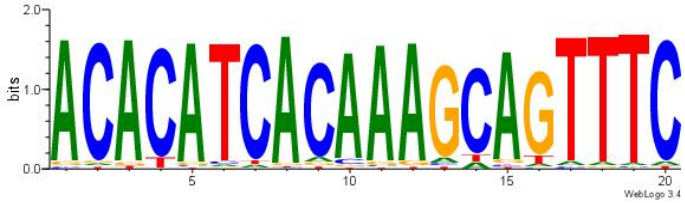

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

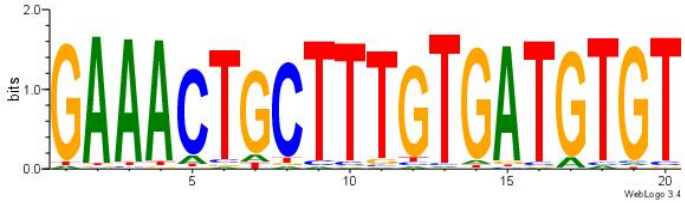

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0916882

Alignment:
GGAGGTGTGGAGGGAGAGGC
------GAGAACGTAG----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

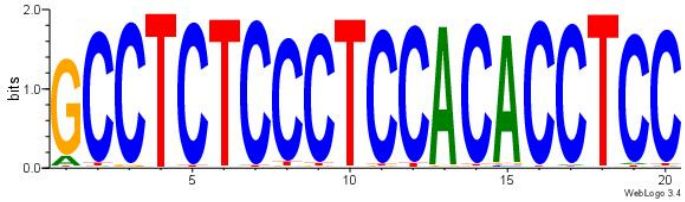

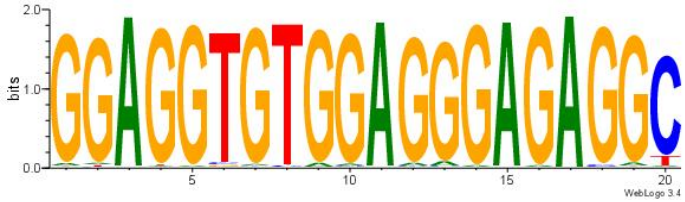

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0917521

Alignment:

```
ACTGTCTTCCACCTCCACAT
-----CTACGTTCTC-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

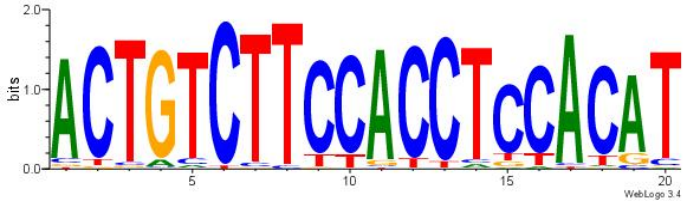

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

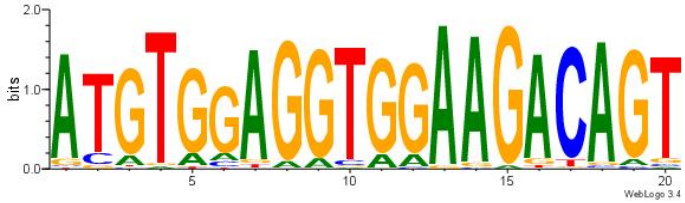

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0932474

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
GAGAACGTAG----------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

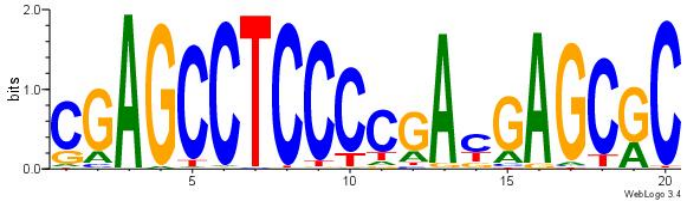

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

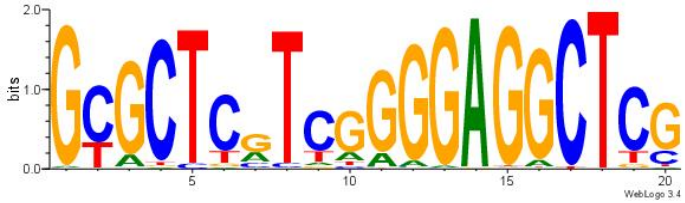

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.093365

Alignment:
AGGTCCTTCAGGAGGTATTC
--------GAGAACGTAG--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

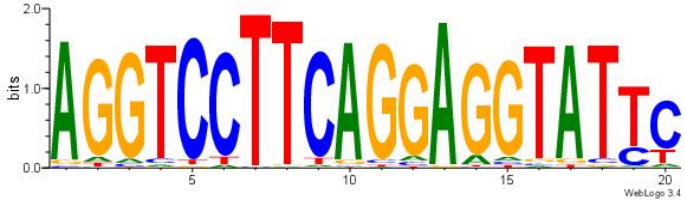

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

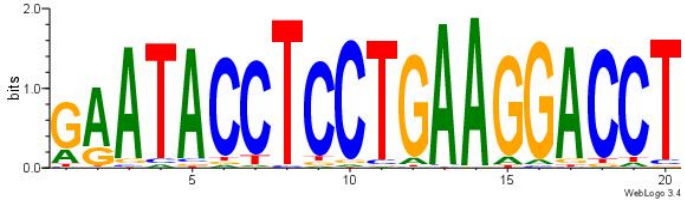

Dataset #: 1
Motif ID: 313
Motif name: Motif 313
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0935789

Alignment:
MGCTGAGGCAGGAG
----GAGAACGTAG

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

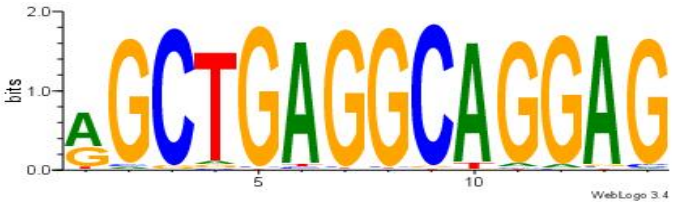

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0937765

Alignment:

```
CCCTGCTAGAACCTCCAA
-----CTACGTTCTC---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

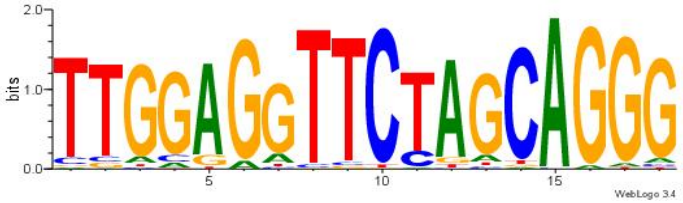

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0943974

Alignment:

```
GMTTAGCTCCCACTTA
-----CTACGTTCTC-
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

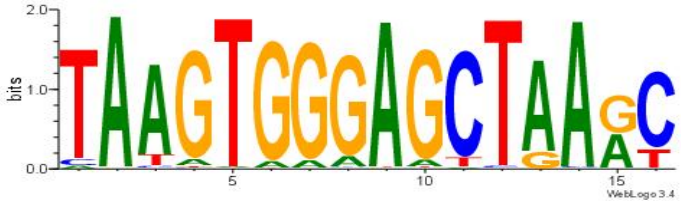

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

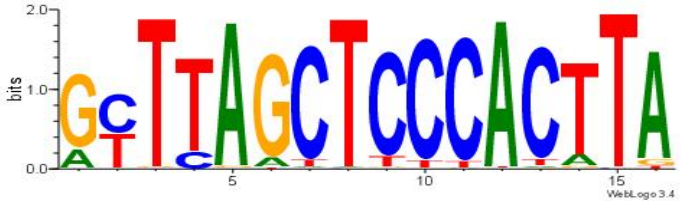

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.094478

Alignment:
CTGGGCRACAGAGYRAGACY
-------GAGAACGTAG---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

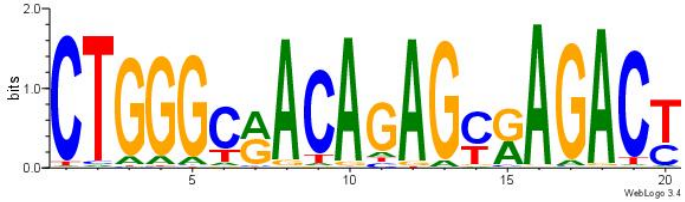

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

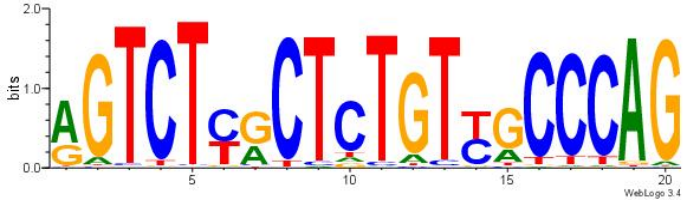

Dataset #: 1
Motif ID: 163
Motif name: Motif 163
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0952792

Alignment:
GGAGCCCACGGAGG
---GAGAACGTAG-

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

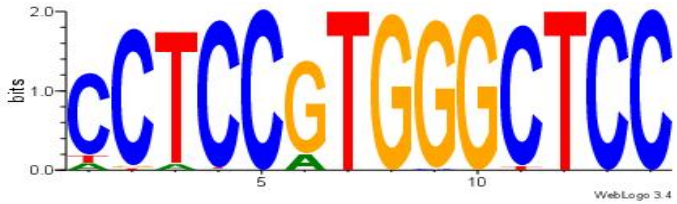

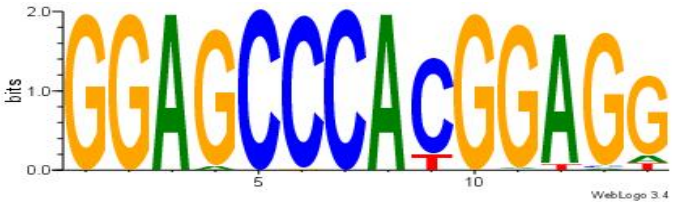

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0952826

Alignment:

```
GGGAGGAAGGGGACAC
--GAGAACGTAG----
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

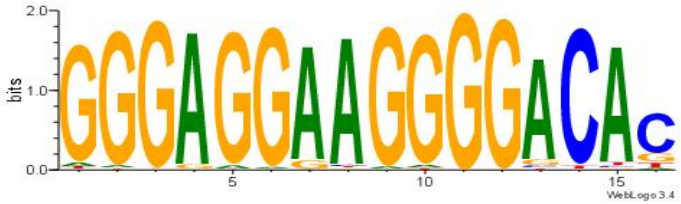

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

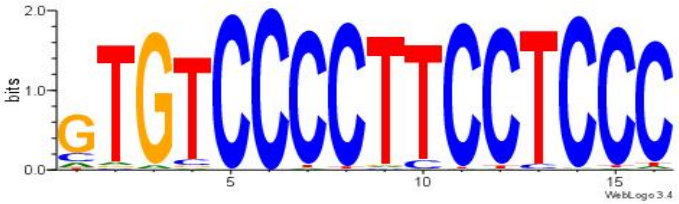

Dataset #: 1

Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0962909

Alignment:

```
CTACATGGACCTT
CTACGTTCTC---
```

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

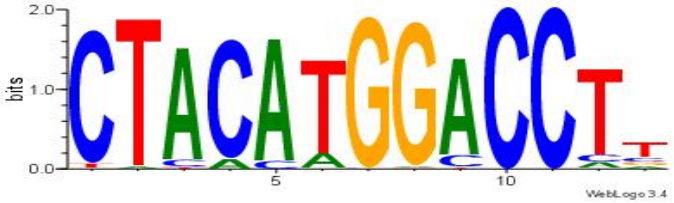

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0967291

Alignment:
AGAAATCGAGCRCAGCGCCG
-----GAGAACGTAG-----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

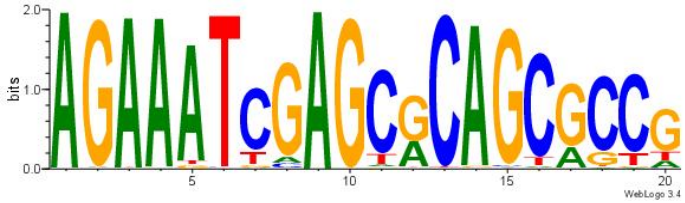

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

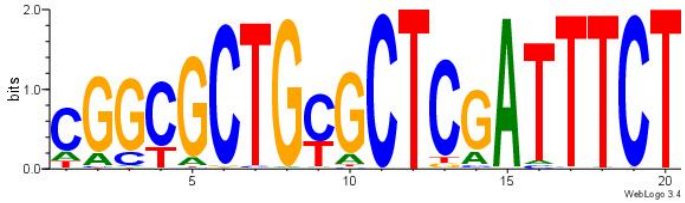

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0970156

Alignment:
CTCCTGACCTCGTGATC
CTACGTTCTC-------

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

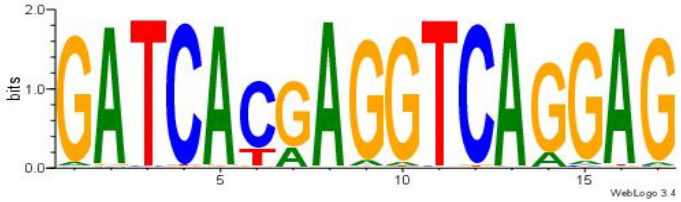

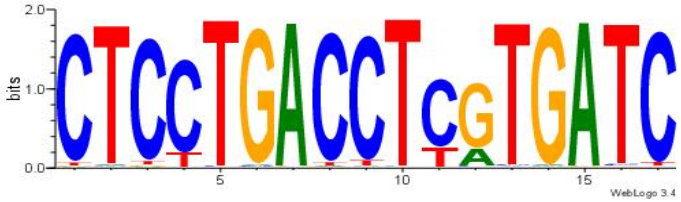

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0971438

Alignment:

```
GTGAGCGACGCAG
GAGAACGTAG---
```

Original motif Consensus sequence: CTGCGTCGCTCAC

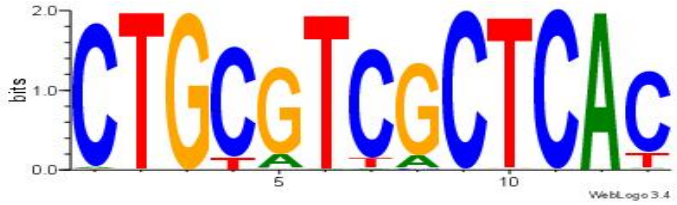

Reverse complement motif Consensus sequence: GTGAGCGACGCAG

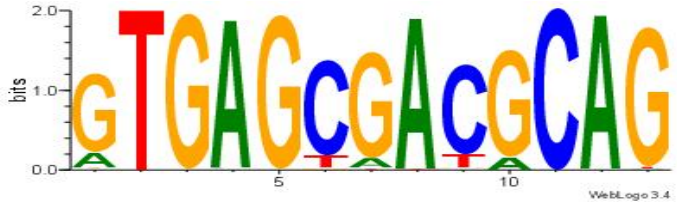

Dataset #:	1
Motif ID:	327

Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0972351

Alignment:

```
GAAATTGACTTCCTCCT
-----CTACGTTCTC--
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

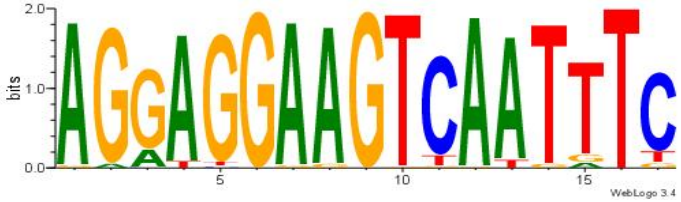

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

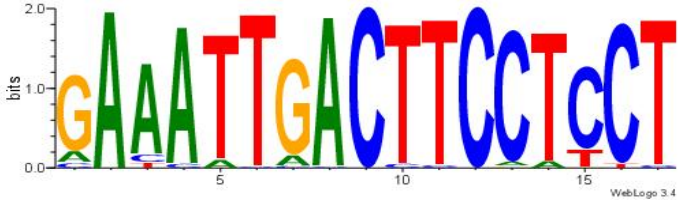

Dataset #: 1 Motif ID: 272 Motif name: Motif 272

Original motif Consensus sequence: CAGCTGTCAC

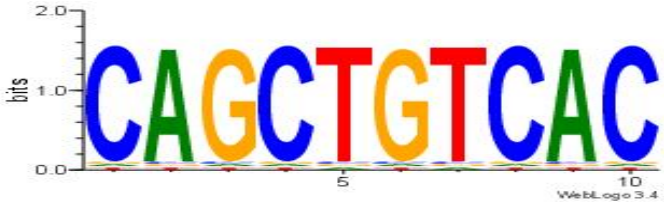

Reverse complement motif Consensus sequence: GTGACAGCTG

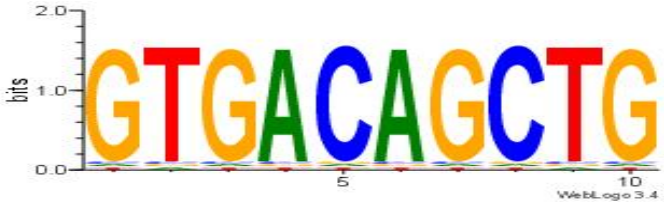

Best Matches for Significant Motif ID 272 (Highest to Lowest)

Dataset #:	1
Motif ID:	334
Motif name:	Motif 334
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0227273

Alignment:

```
CATCTGTCAC
CAGCTGTCAC
```

Original motif Consensus sequence: CATCTGTCAC

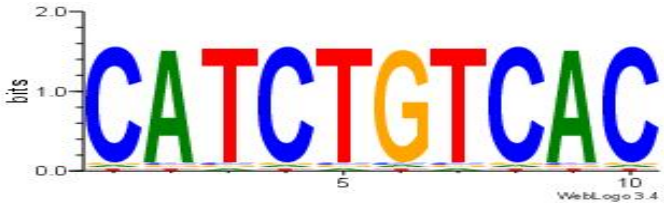

Reverse complement motif Consensus sequence: GTGACAGATG

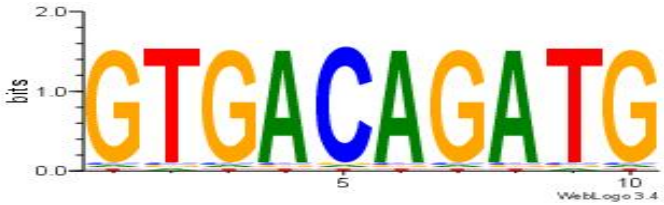

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.037149

Alignment:
GGTGCCAGCTGT
-GTGACAGCTG-

Original motif Consensus sequence: ACAGCTGGCACC

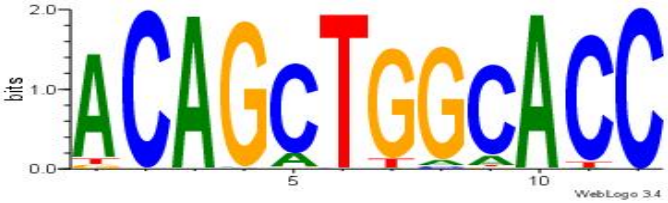

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

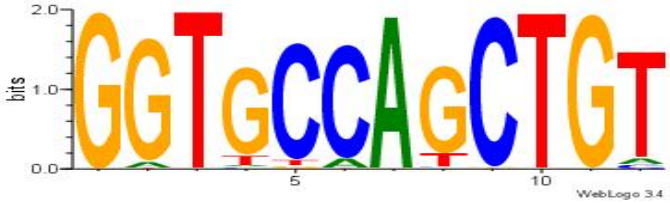

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0483787

Alignment:
BCVTCTGTCACCCC
---CAGCTGTCAC-

Original motif Consensus sequence: GGGGTGACAGABGB

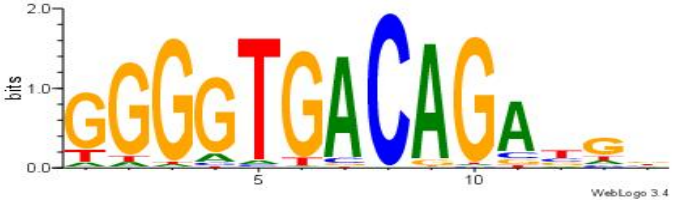

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

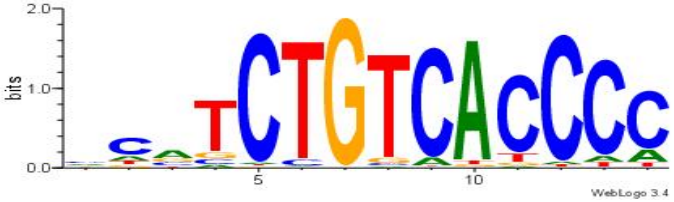

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0565248

Alignment:

```
TATTTACAGCTGCT
--GTGACAGCTG--
```

Original motif Consensus sequence: AGCAGCTGTAAATA

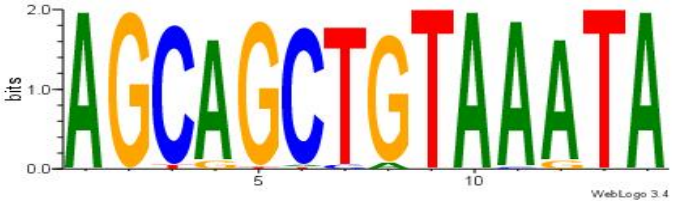

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

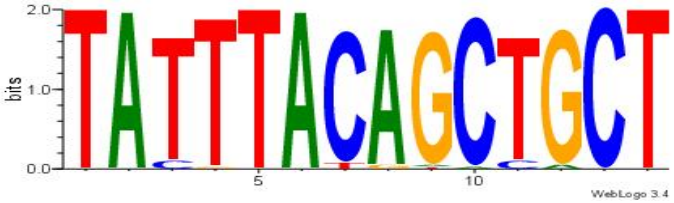

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0671188

Alignment:

```
ACATCTGYMMCC
-CAGCTGTCAC-
```

Original motif Consensus sequence: ACATCTGYMMCC

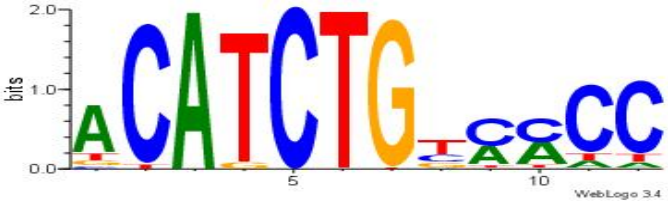

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0681818

Alignment:
CAGAAATCACC
CAGCTGTCAC-

Original motif Consensus sequence: CAGAAATCACC

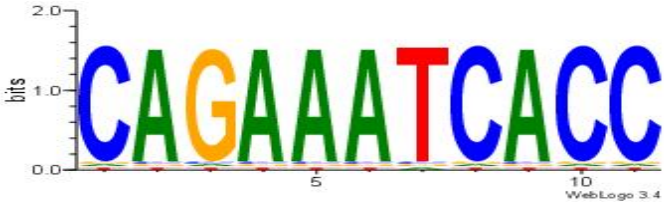

Reverse complement motif Consensus sequence: GGTGATTTCTG

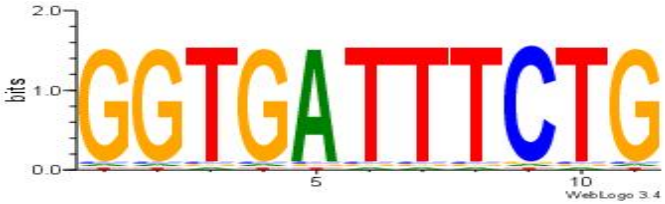

Dataset #: 1
Motif ID: 335
Motif name: Motif 335
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0681818

Alignment:
GTTAATGCTGA
GTGACAGCTG-

Original motif Consensus sequence: GTTAATGCTGA

Reverse complement motif Consensus sequence: TCAGCATTAAC

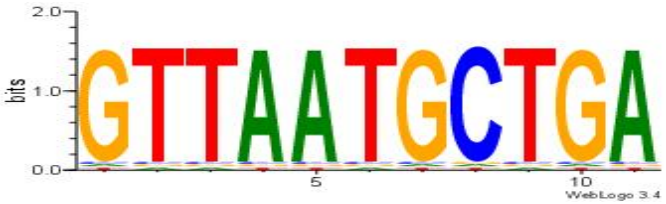

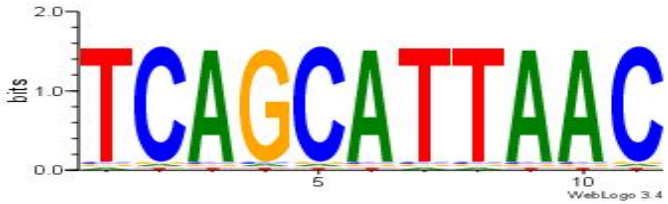

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0740916

Alignment:

```
GACATGAGCTGGCGCTTG
-----CAGCTGTCAC---
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

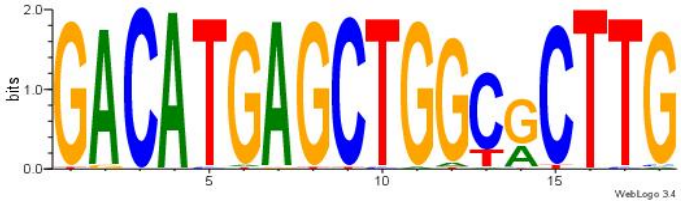

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

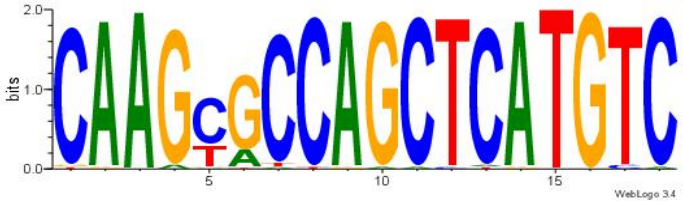

Dataset #:	1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0748014

Alignment:

```
GMTTAGCTCCCACTTA
---CAGCTGTCAC---
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

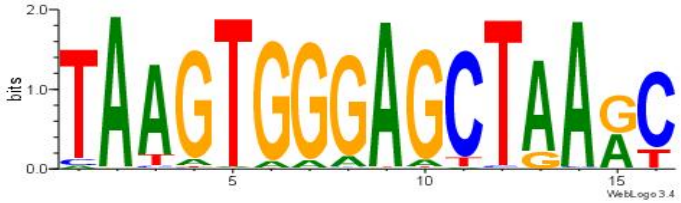

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

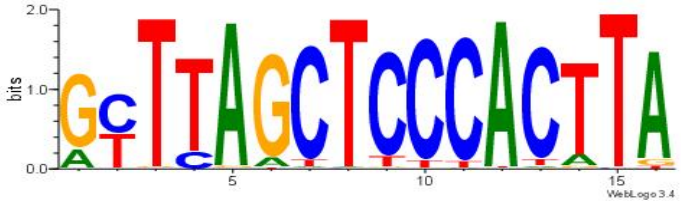

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0748819

Alignment:
AGCTCMKCCTCCTGTCAGAT
--CAGCTGTCAC--------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

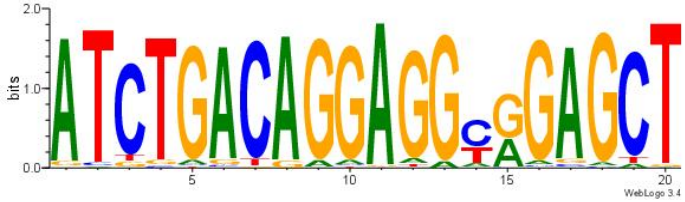

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

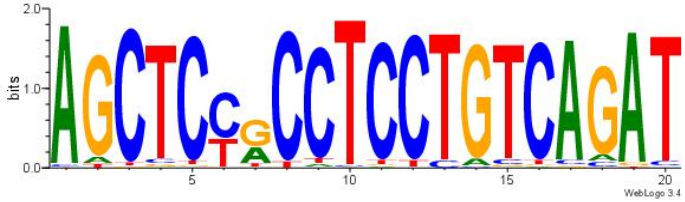

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0781852

Alignment:
TGGGCTGCCAGATG
----GTGACAGCTG

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

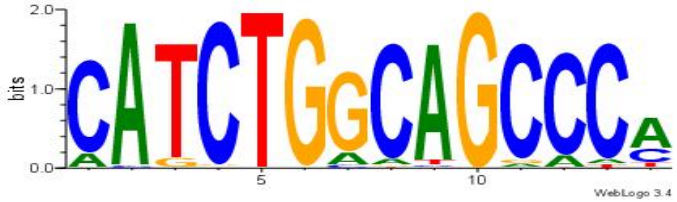

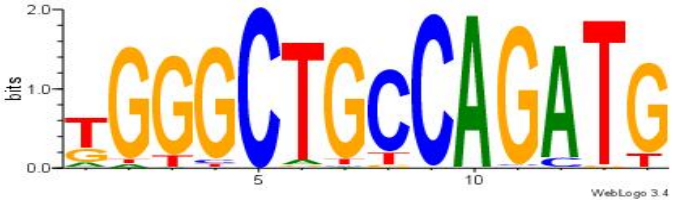

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0789406

Alignment:

```
GTAGACKGGAGCTGTTCCT
-CAGCTGTCAC--------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

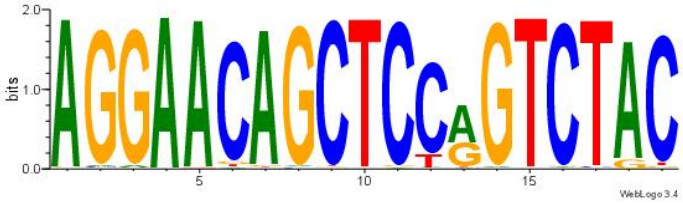

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

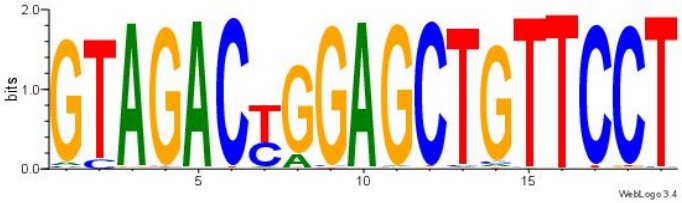

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0794991

Alignment:

```
ACAGGCTGTCCCAGGATTC
-------CAGCTGTCAC--
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

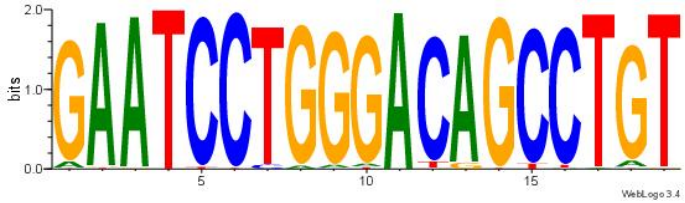

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

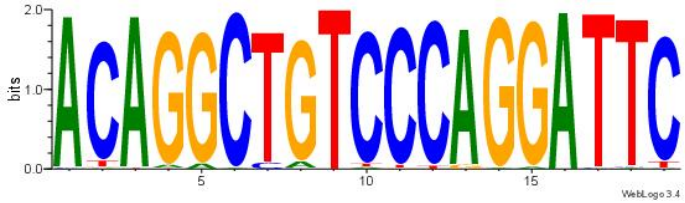

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.080652

Alignment:
CTGCTATAACAAA
CAGCTGTCAC---

Original motif Consensus sequence: CTGCTATAACAAA

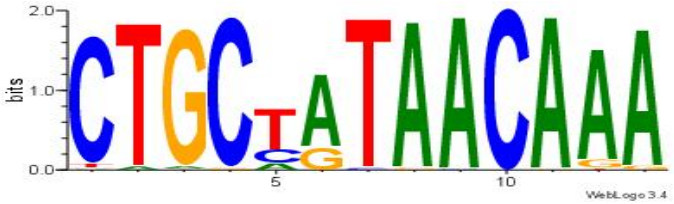

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

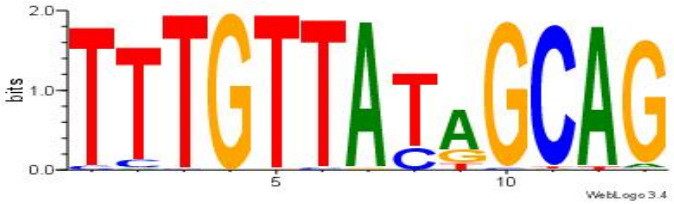

Dataset #: 1
Motif ID: 269
Motif name: Motif 269
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0808367

Alignment:
AGCGACATGTGC
-GTGACAGCTG-

Original motif Consensus sequence: AGCGACATGTGC

Reverse complement motif Consensus sequence: GCACATGTCGCT

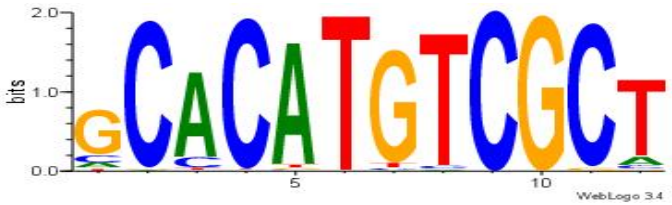

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0811695

Alignment:

```
CAAGTTGACACATAAAATTA
-CAGCTGTCAC---------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

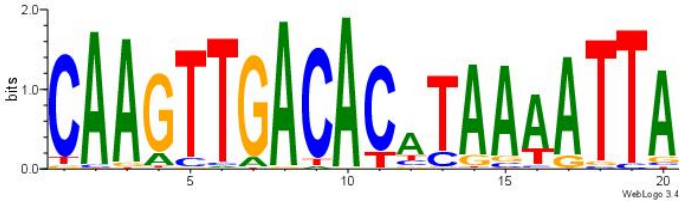

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

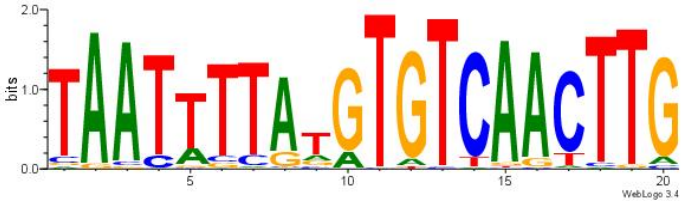

Dataset #: 1

Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0824285

Alignment:

```
CAGAAATCACCCGTCTT
CAGCTGTCAC-------
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

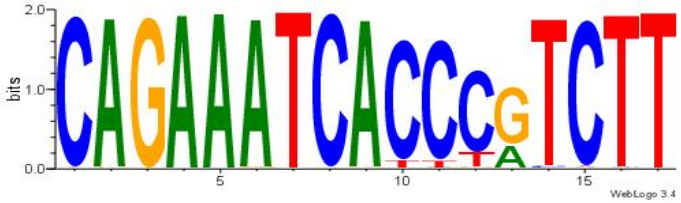

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

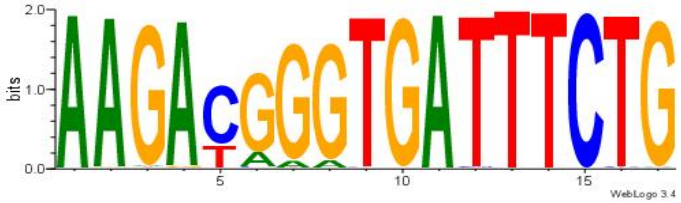

Dataset #:	1
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0825667

Alignment:
ATTTTACAGATG
--GTGACAGCTG

Original motif Consensus sequence: CATCTGTAAAAT

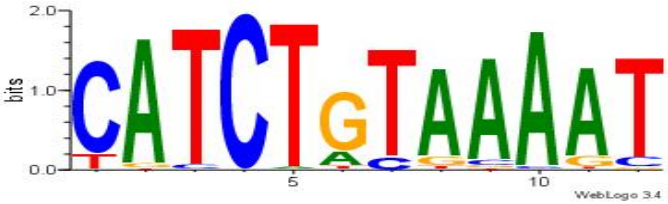

Reverse complement motif Consensus sequence: ATTTTACAGATG

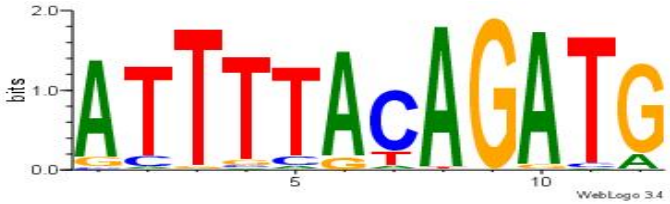

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0827269

Alignment:
GGCACTGCTGGGGGACCCAG
GTGACAGCTG----------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

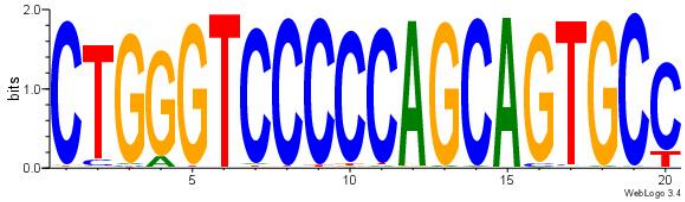

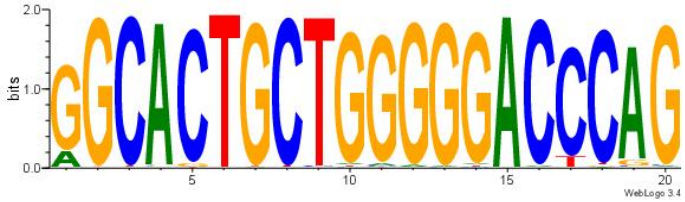

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0835122

Alignment:

```
CAAASCKGTCATAGGCCAT
--CAGCTGTCAC-------
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

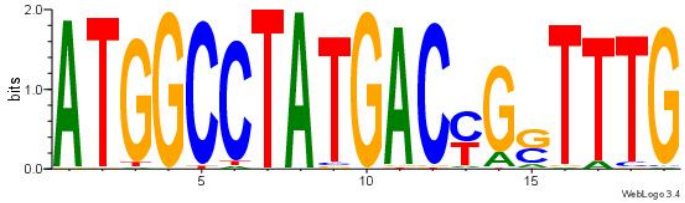

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

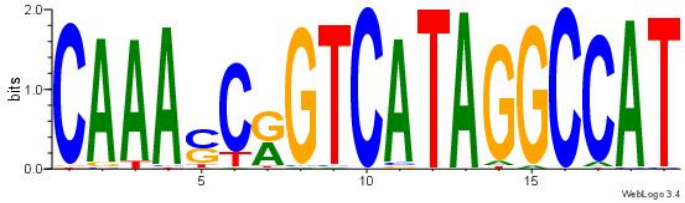

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.085381

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GTGACAGCTG------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

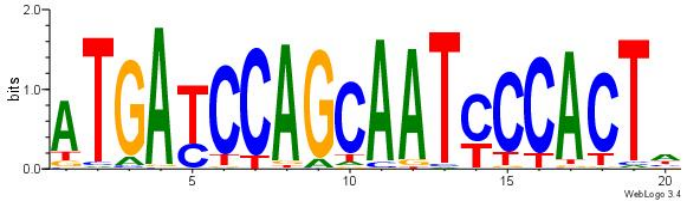

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

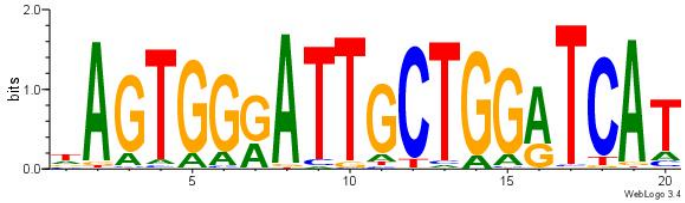

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0870602

Alignment:
AAGGGACATTKGAG
--GTGACAGCTG--

Original motif Consensus sequence: AAGGGACATTKGAG

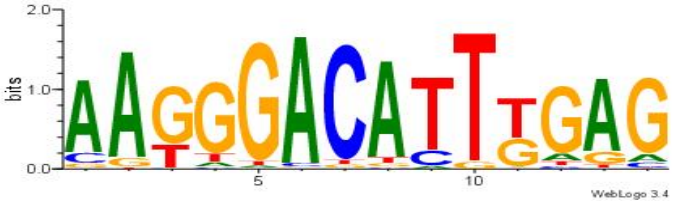

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

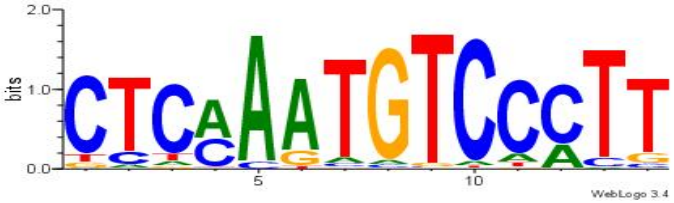

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0873782

Alignment:
TGTAKTCCCAGCTAC
----GTGACAGCTG-

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCT

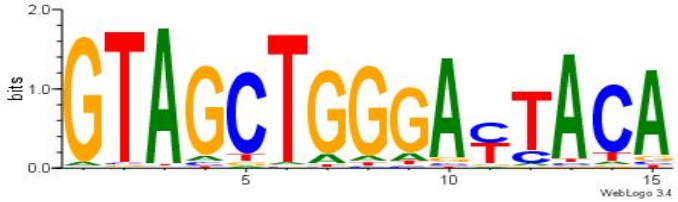

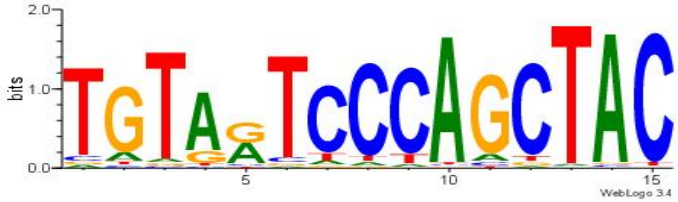

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0873784

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--CAGCTGTCAC--------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

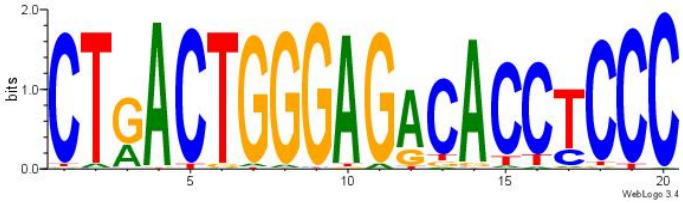

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

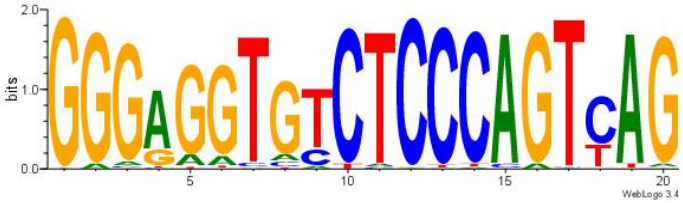

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0876823

Alignment:

```
AAGTTCTKGGKTACATGTGC
---------GTGACAGCTG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

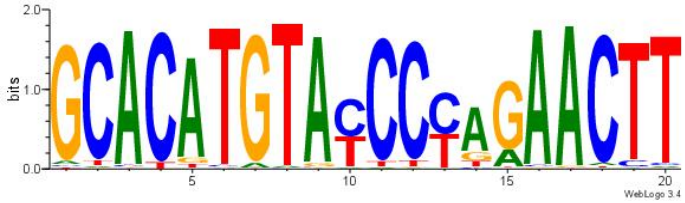

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

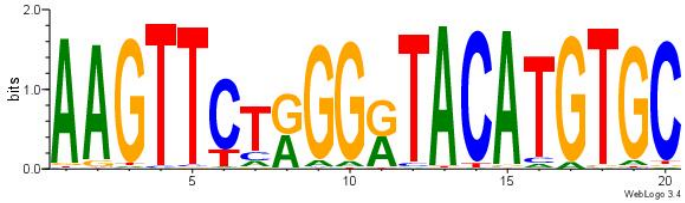

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0902649

Alignment:
TAGTGGTGATTTSTGAGAT
-----GTGACAGCTG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

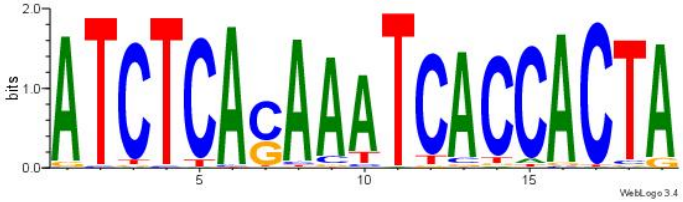

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

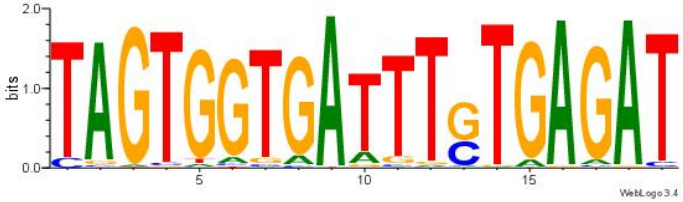

Dataset #: 1
Motif ID: 263
Motif name: Motif 263
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0916888

Alignment:
GGCAGAGCTGGG
GTGACAGCTG--

Original motif Consensus sequence: CCCAGCTCTGCC

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

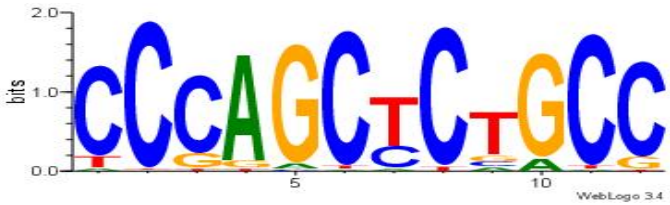

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0921989

Alignment:

```
GGGACWGCACAT
GTGACAGCTG--
```

Original motif Consensus sequence: ATGTGCWGTCCC

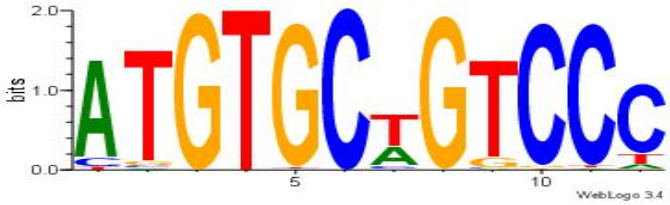

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0930684

Alignment:

```
GCTCCACCCAGTTCGAGCTT
----------GTGACAGCTG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

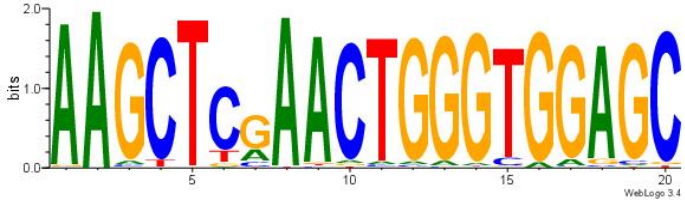

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

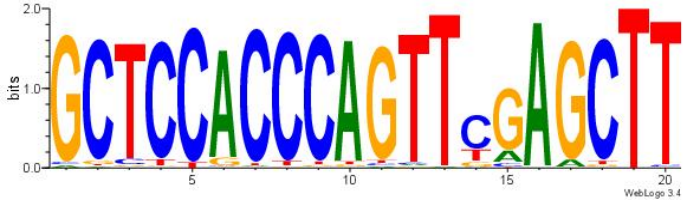

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0935542

Alignment:
AGACAGTGGGYGCAGGHCA
----GTGACAGCTG-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

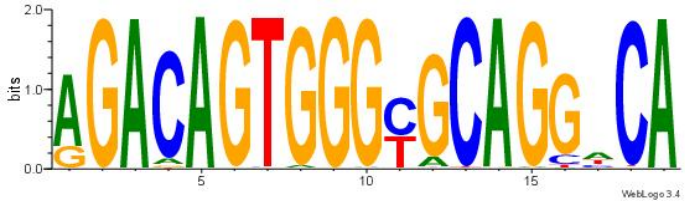

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

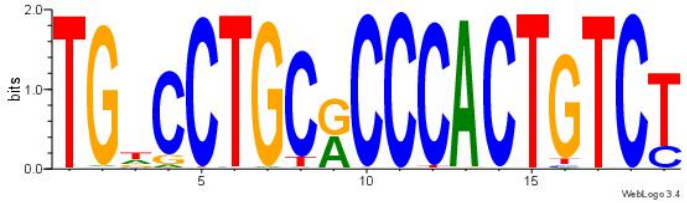

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0954747

Alignment:
GCAGCAGCAGCA
-CAGCTGTCAC-

Original motif Consensus sequence: GCAGCAGCAGCA

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

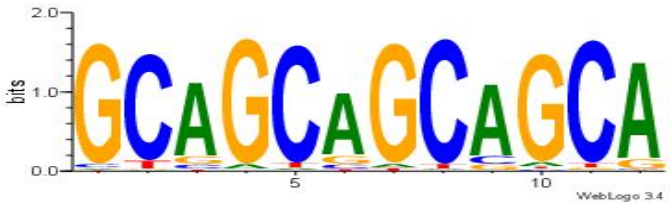

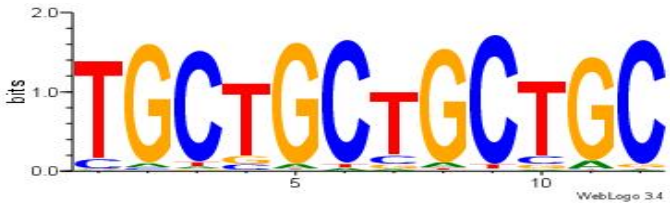

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0957371

Alignment:

```
AACAACASACACTGGGGCCT
--------CAGCTGTCAC--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

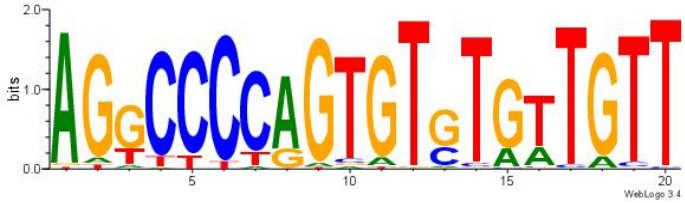

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

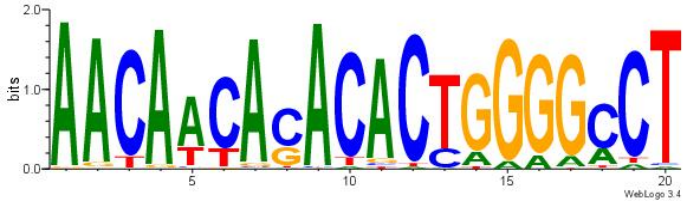

Dataset #: 1

Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0959691

Alignment:

```
CTGTCAGCCCAT
--GTGACAGCTG
```

Original motif Consensus sequence: CTGTCAGCCCAT

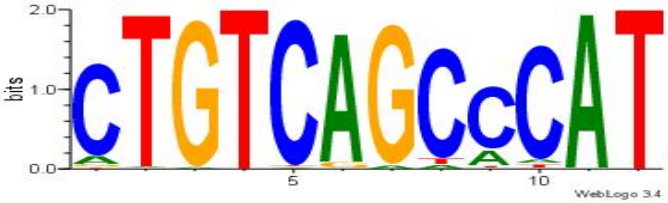

Reverse complement motif Consensus sequence: ATGGGCTGACAG

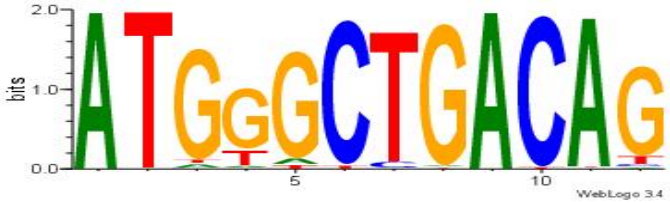

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0961504

Alignment:
AAAGTGCCGAGAKTGCAGC
-GTGACAGCTG--------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

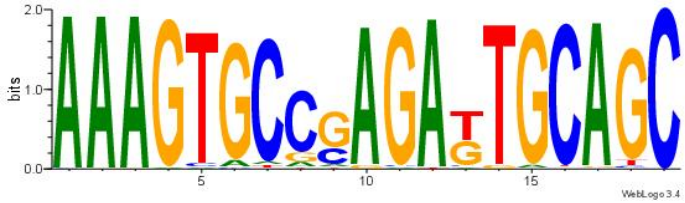

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

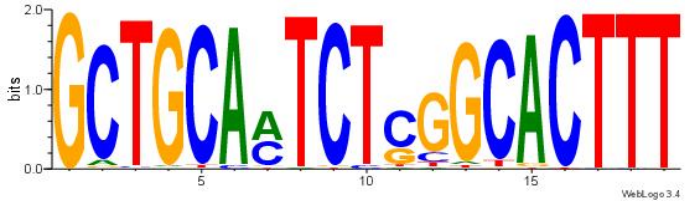

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0963843

Alignment:
TGTGACCTTGG
-GTGACAGCTG

Original motif Consensus sequence: CCAAGGTCACA

Reverse complement motif Consensus sequence: TGTGACCTTGG

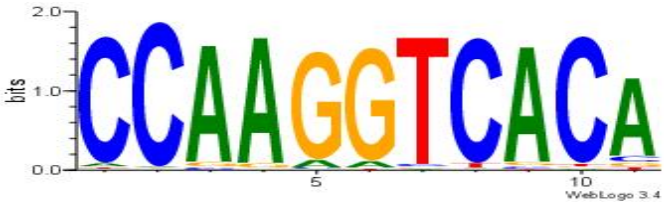

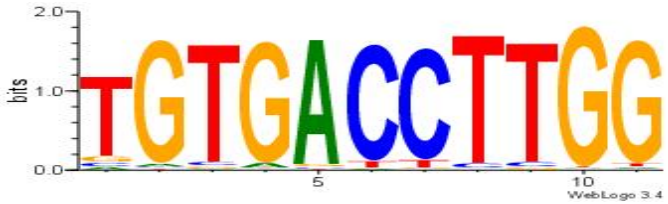

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0964609

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-----GTGACAGCTG-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

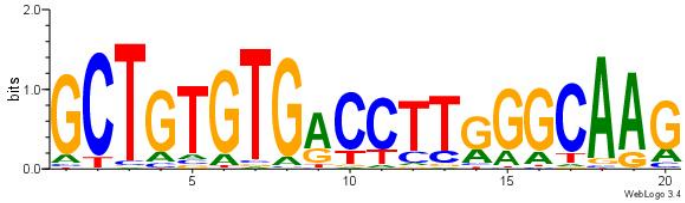

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

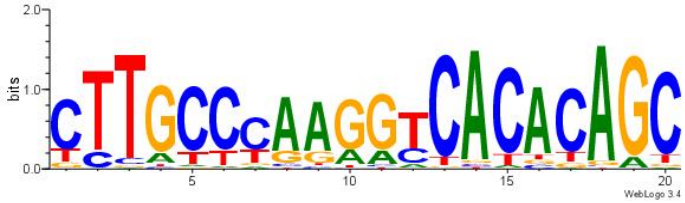

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0966829

Alignment:

```
AGGTTTGTTACATAGGTAWA
----GTGACAGCTG------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

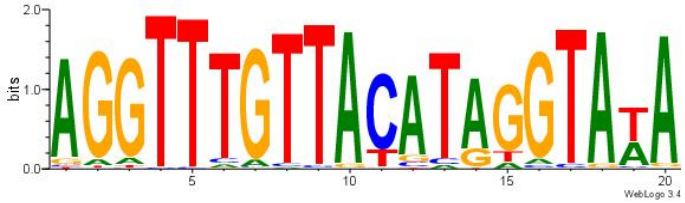

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

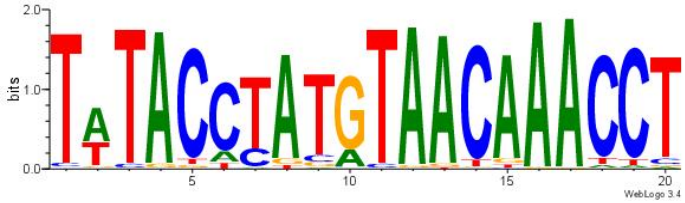

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0975421

Alignment:
ACCATCTTTAAGAACT
--CAGCTGTCAC----

Original motif Consensus sequence: AGTTCTTAAAGATGGT

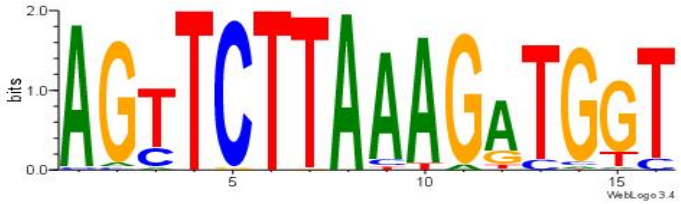

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

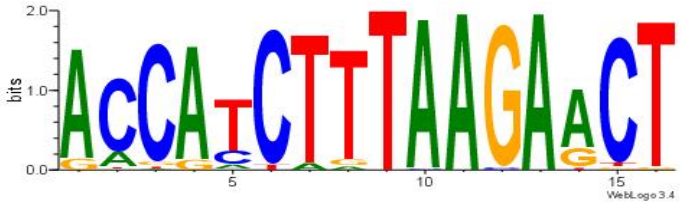

Dataset #: 1
Motif ID: 148
Motif name: Motif 148
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0977085

Alignment:
AAAGAGAGTCAGCGAAG
--GTGACAGCTG-----

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

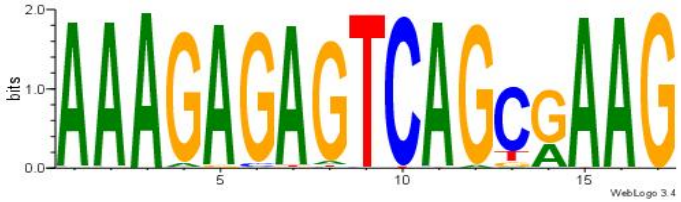

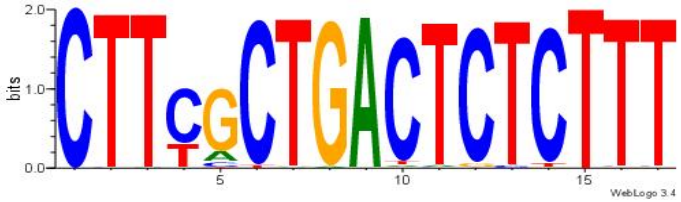

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0979021

Alignment:

```
GCGGCGGCGGCG
GTGACAGCTG--
```

Original motif Consensus sequence: CGCCGCCGCCGC

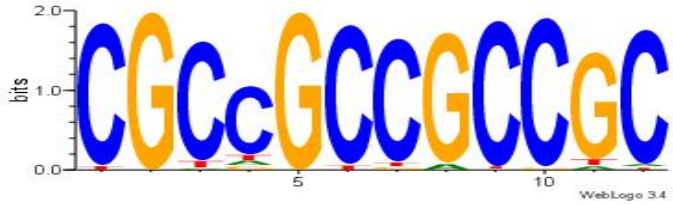

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

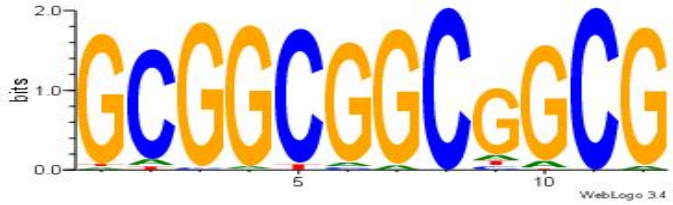

Dataset #:	1
Motif ID:	76

Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0981665

Alignment:

```
GTGCCAGGCACTGTKCTARG
----------GTGACAGCTG
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

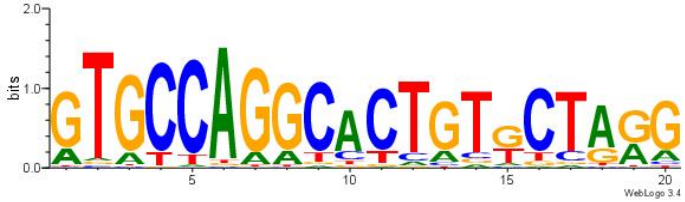

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

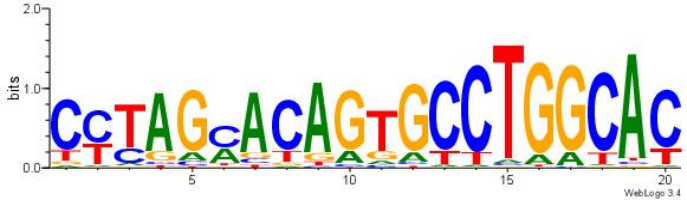

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0982406

Alignment:
CCCAAATCTCATSTTGAAT
--CAGCTGTCAC-------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

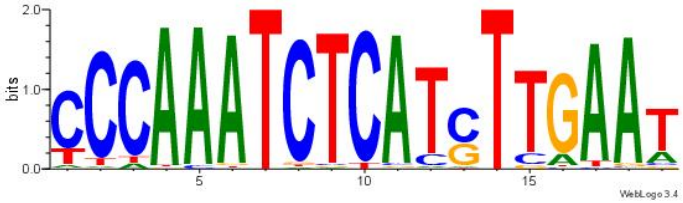

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

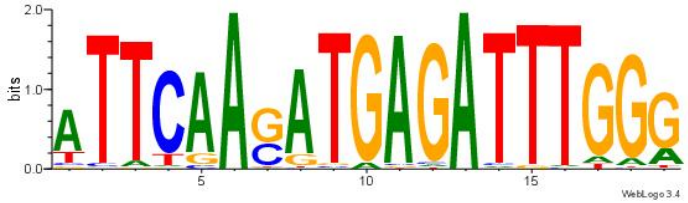

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.098286

Alignment:
AACCCTATTGTGAACTGYG
--GTGACAGCTG-------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

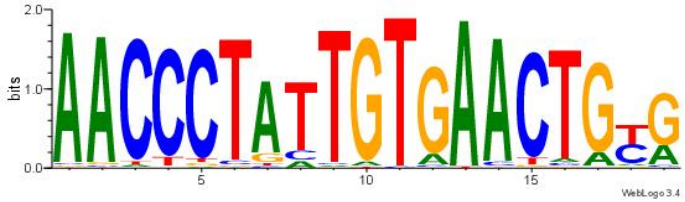

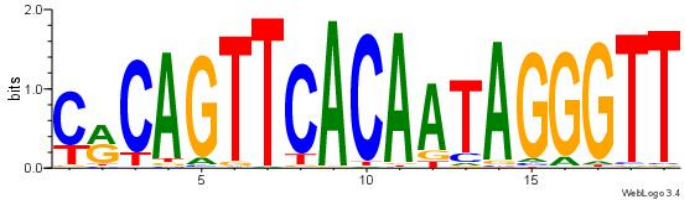

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0983772

Alignment:

```
AGTGAGAACATRYRRTRTTT
---------GTGACAGCTG-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

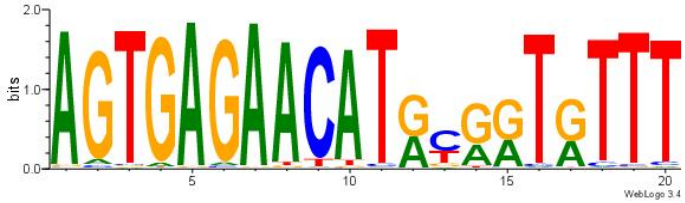

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

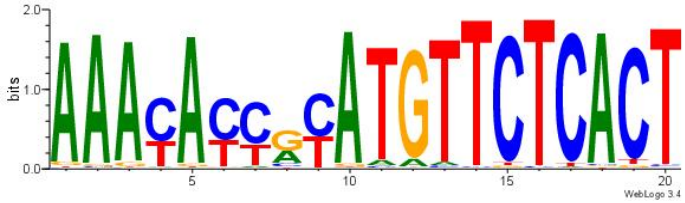

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0988736

Alignment:

```
CCCTGCTAGAACCTCCAA
--CAGCTGTCAC------
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

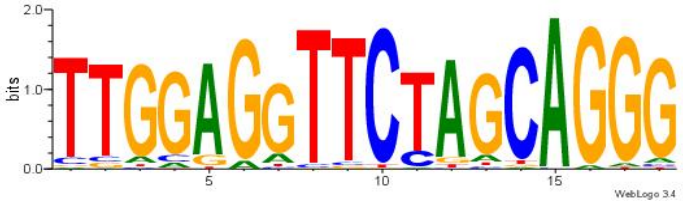

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0988758

Alignment:
AGATGCCAGCCAGAGCTCT
--GTGACAGCTG-------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

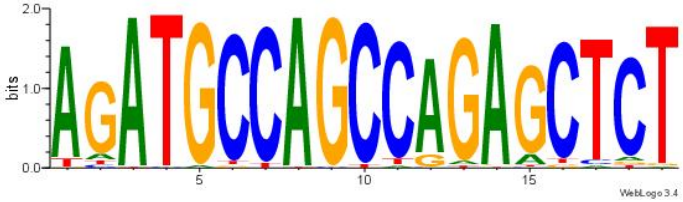

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

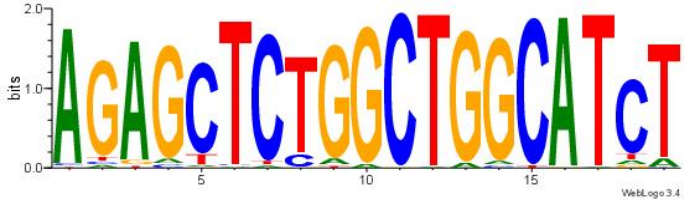

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0988985

Alignment:
CCCMKGGCACCCTCAGTCCT
CAGCTGTCAC----------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

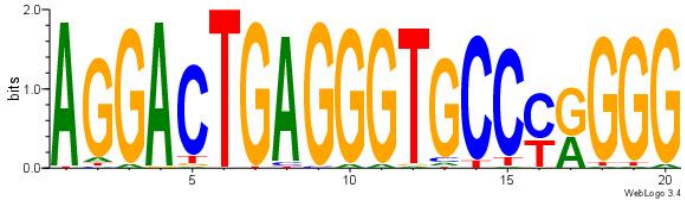

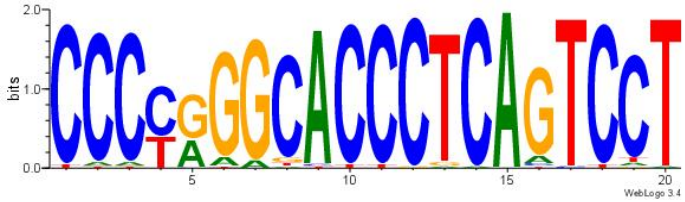

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0990193

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-CAGCTGTCAC---------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

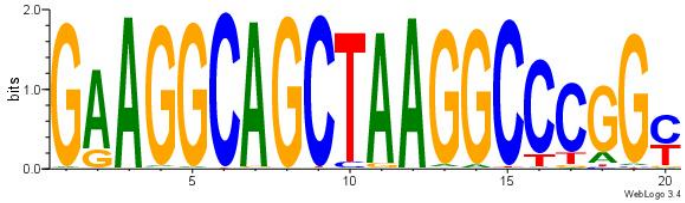

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

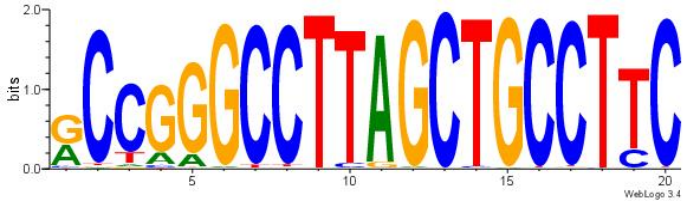

Dataset #:	1

Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0994453

Alignment:

```
ATTGCTAGCACA
-CAGCTGTCAC-
```

Original motif Consensus sequence: ATTGCTAGCACA

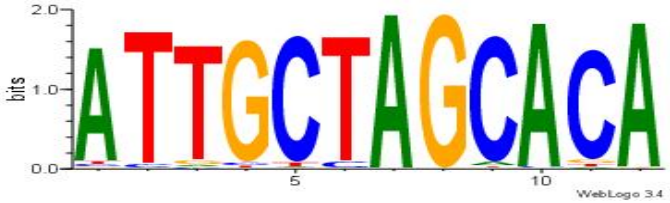

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

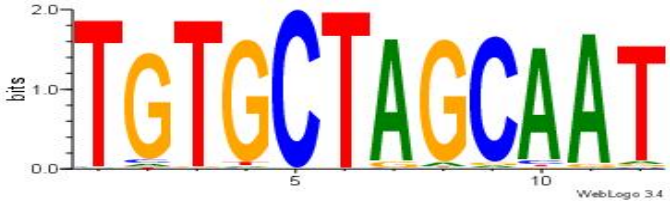

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0996205

Alignment:
MGCTGAGGCAGGAG
----GTGACAGCTG

Original motif Consensus sequence: CTCCTGCCTCAGCY

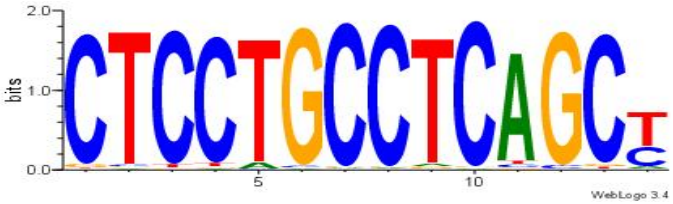

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

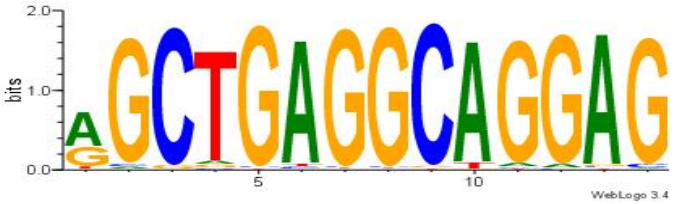

Dataset #: 1 Motif ID: 334 Motif name: Motif 334

Original motif Consensus sequence: CATCTGTCAC

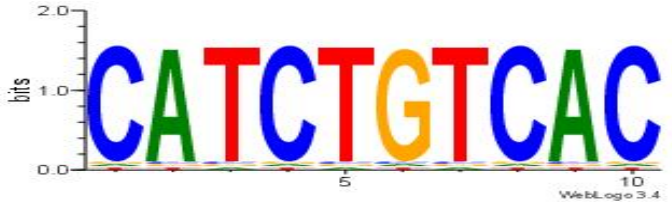

Reverse complement motif Consensus sequence: GTGACAGATG

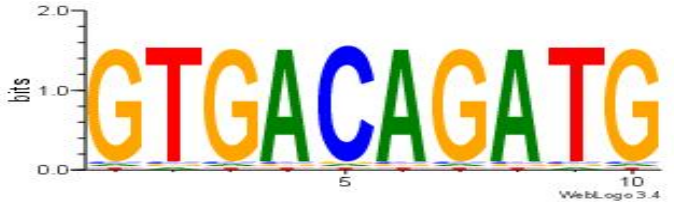

Best Matches for Significant Motif ID 334 (Highest to Lowest)

Dataset #:	1
Motif ID:	272
Motif name:	Motif 272
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 10
Similarity score: 0.0227273

Alignment:
CAGCTGTCAC
CATCTGTCAC

Original motif Consensus sequence: CAGCTGTCAC

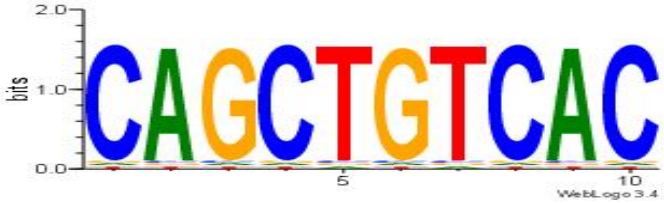

Reverse complement motif Consensus sequence: GTGACAGCTG

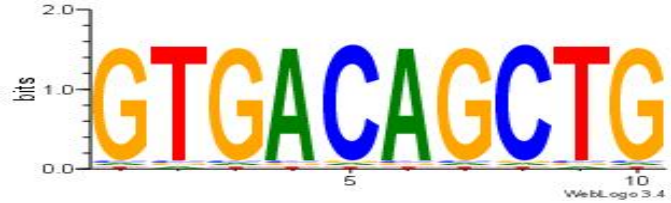

Dataset #: 1
Motif ID: 1
Motif name: Motif 1
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0317788

Alignment:
BCVTCTGTCACCCC
---CATCTGTCAC-

Original motif Consensus sequence: GGGGTGACAGABGB

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

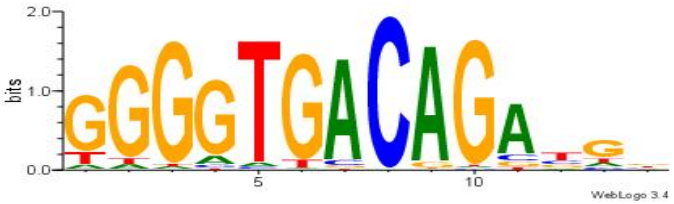

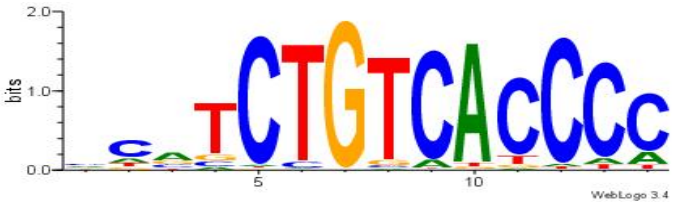

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0451613

Alignment:

```
ACATCTGYMMCC
-CATCTGTCAC-
```

Original motif Consensus sequence: ACATCTGYMMCC

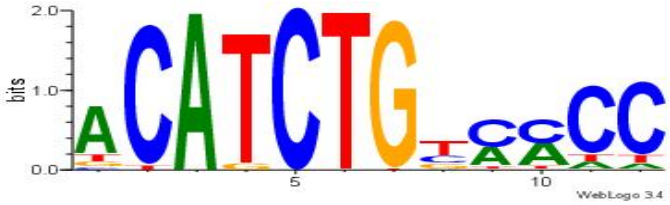

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	205

Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0558301

Alignment:

```
TGGGCTGCCAGATG
----GTGACAGATG
```

Original motif Consensus sequence: CATCTGGCAGCCCA

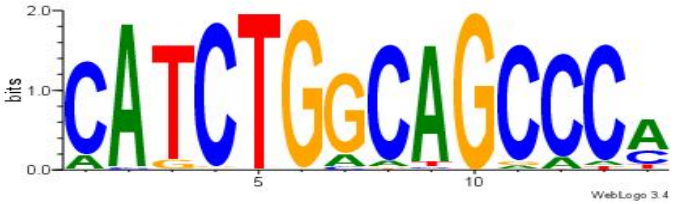

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

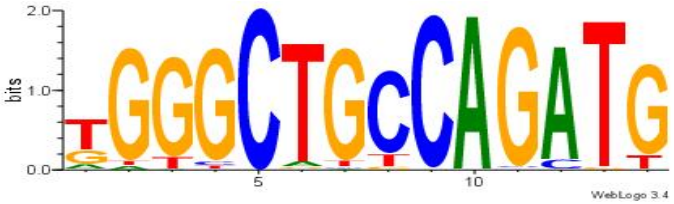

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0598762

Alignment:
GGTGCCAGCTGT
-GTGACAGATG-

Original motif Consensus sequence: ACAGCTGGCACC

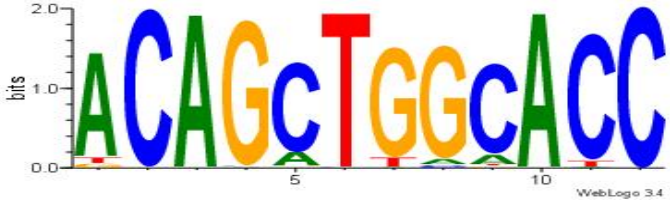

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

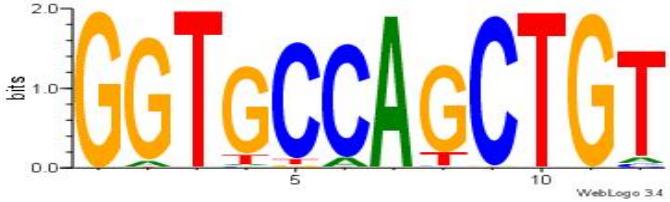

Dataset #:	1
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.060151

Alignment:
ATTTTACAGATG
--GTGACAGATG

Original motif Consensus sequence: CATCTGTAAAAT

Reverse complement motif Consensus sequence: ATTTTACAGATG

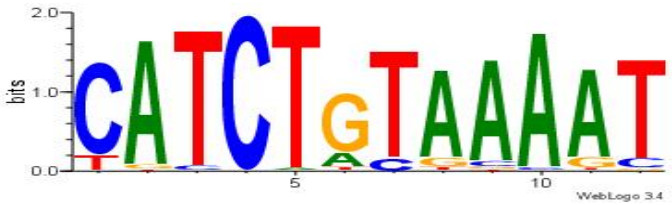

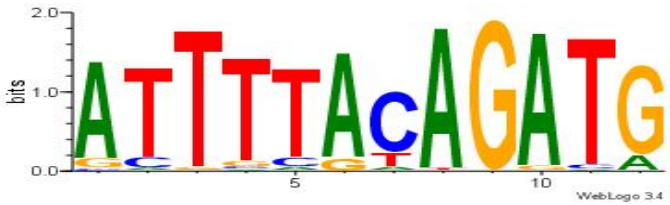

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0744452

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CATCTGTCAC--------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

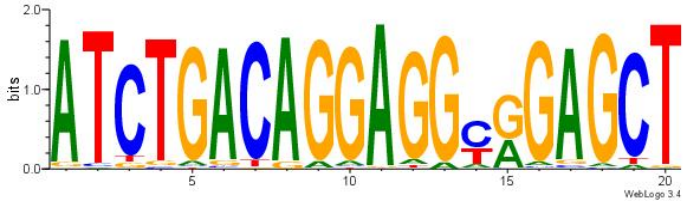

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

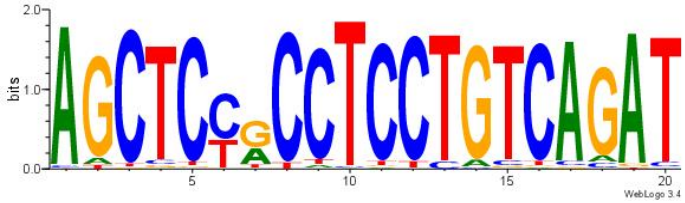

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.078667

Alignment:

```
CTTGGGTGGTCGATGGGAC
-----GTGACAGATG----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

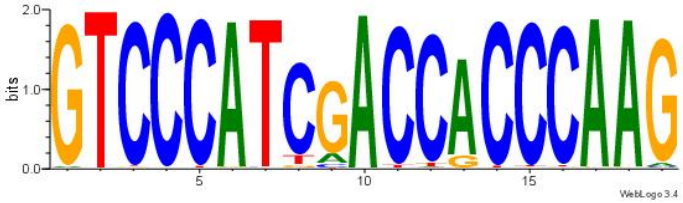

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

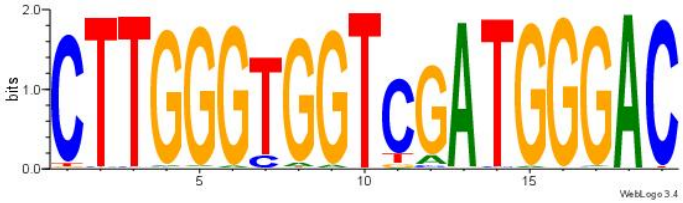

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0792521

Alignment:
TATTTACAGCTGCT
--GTGACAGATG--

Original motif Consensus sequence: AGCAGCTGTAAATA

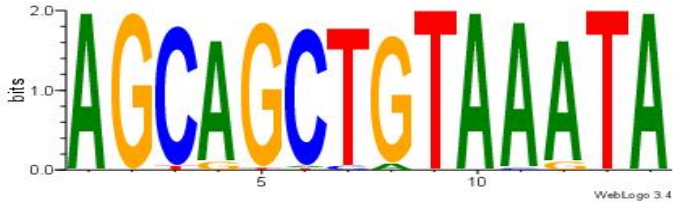

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

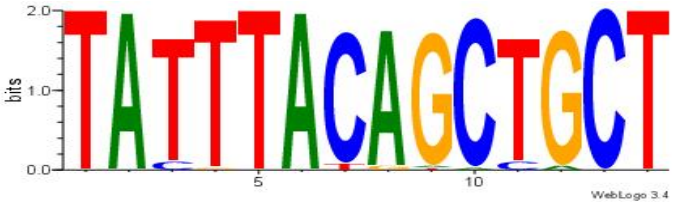

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0798435

Alignment:
TTMGTCCCAGAGGGGCACC
---GTGACAGATG------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

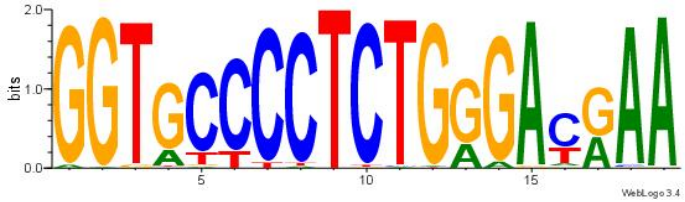

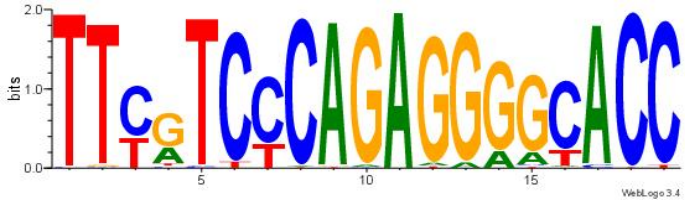

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0808367

Alignment:

```
GCACATGTCGCT
-CATCTGTCAC-
```

Original motif Consensus sequence: AGCGACATGTGC

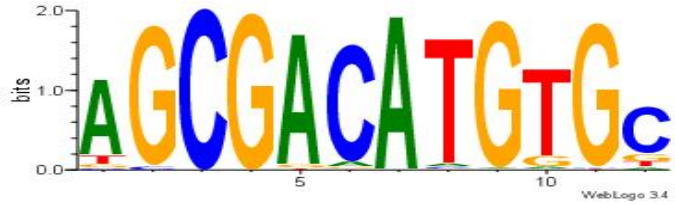

Reverse complement motif Consensus sequence: GCACATGTCGCT

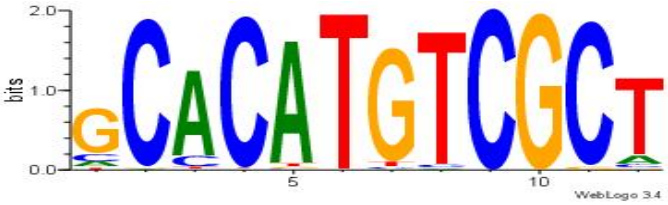

Dataset #:	1
Motif ID:	143

Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.081706

Alignment:

```
CTGCGTCGCTCAC
---CATCTGTCAC
```

Original motif Consensus sequence: CTGCGTCGCTCAC

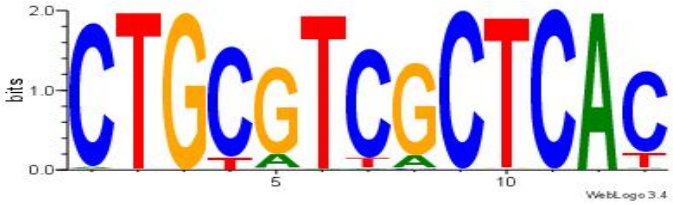

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

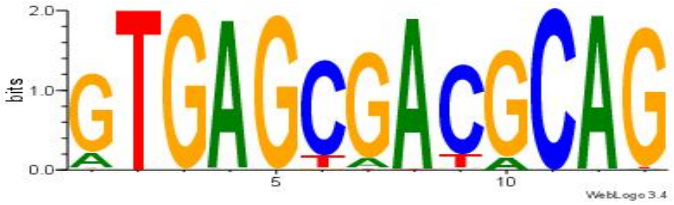

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0818849

Alignment:
TWTACCTATGTAACAAACCT
------CATCTGTCAC----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

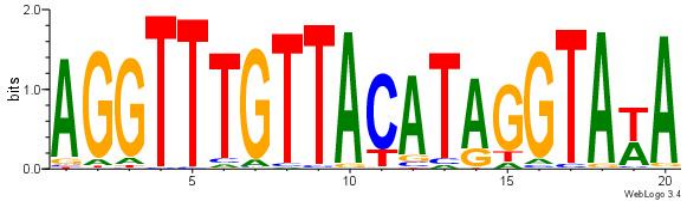

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

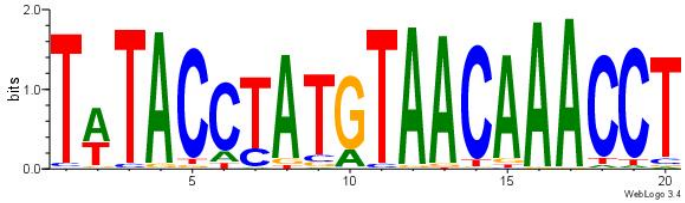

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0824205

Alignment:
CGTCCATCACCCC
CATCTGTCAC---

Original motif Consensus sequence: CGTCCATCACCCC

Reverse complement motif Consensus sequence: GGGGTGATGGACG

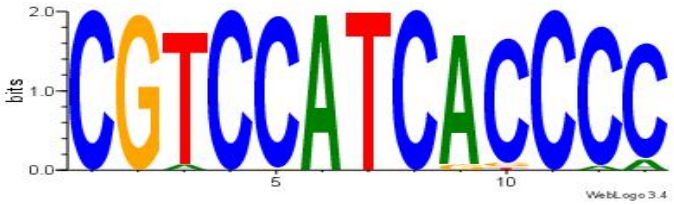

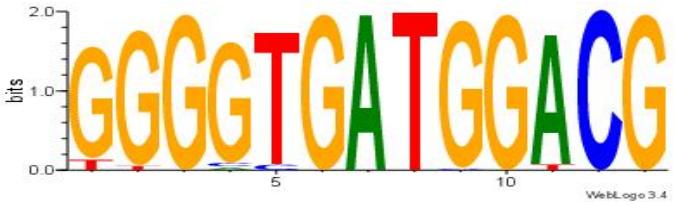

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0825731

Alignment:

```
CATCTGGAGCCCCA
CATCTGTCAC----
```

Original motif Consensus sequence: CATCTGGAGCCCCA

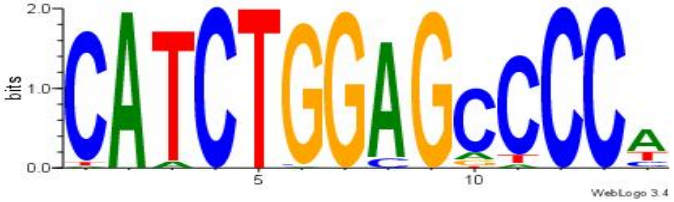

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

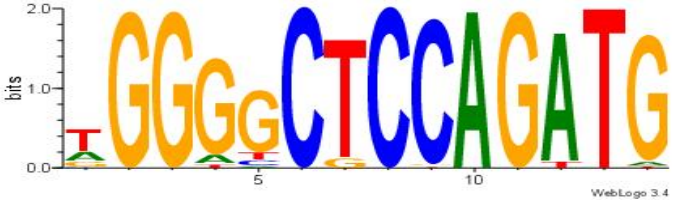

Dataset #:	1
Motif ID:	303

Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0833321

Alignment:

```
ACCATCTTTAAGAACT
----CATCTGTCAC--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

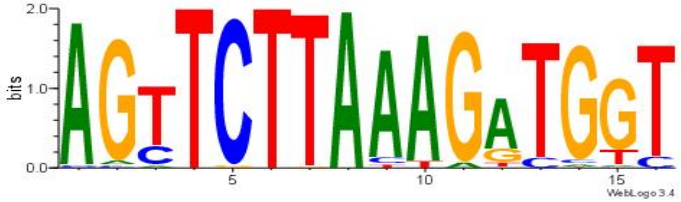

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

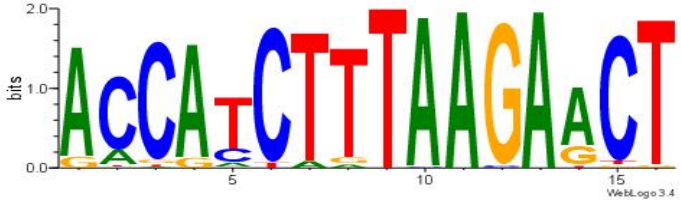

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0844976

Alignment:
CGTCGCTCACGCTGGGAGCT
----------CATCTGTCAC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

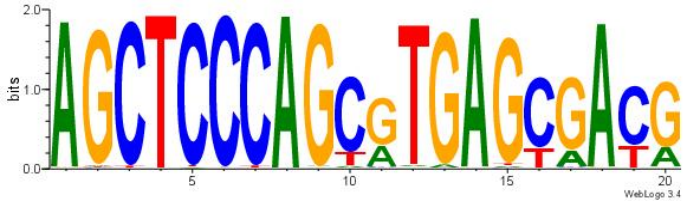

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

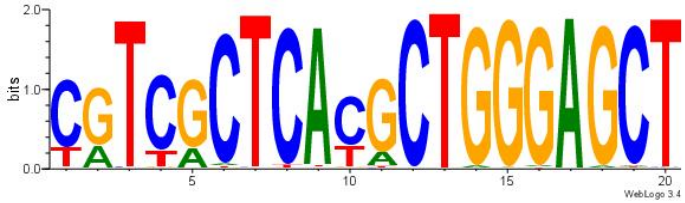

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0853909

Alignment:
CAAGTTGACACATAAAATTA
----GTGACAGATG------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

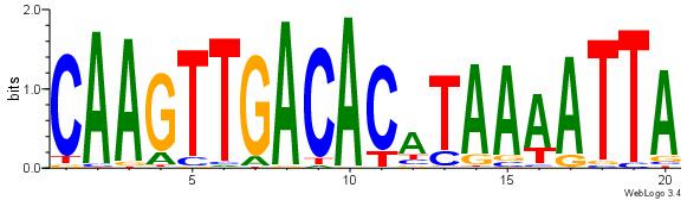

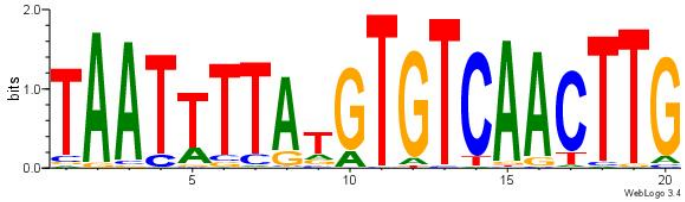

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.085788

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
----CATCTGTCAC------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

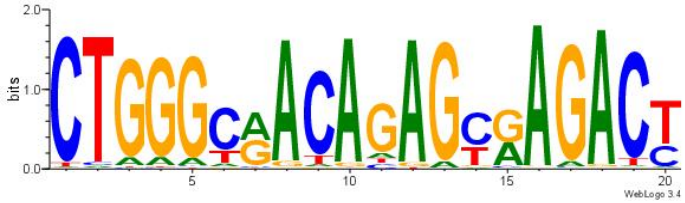

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

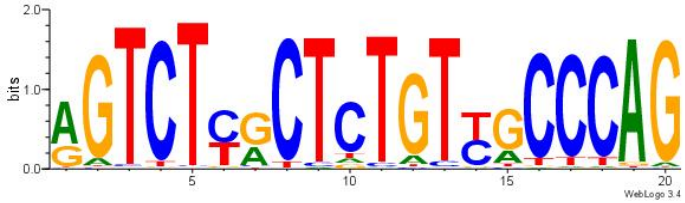

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0872211

Alignment:

```
CATTTGGGAGCCCATTGA
CATCTGTCAC--------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

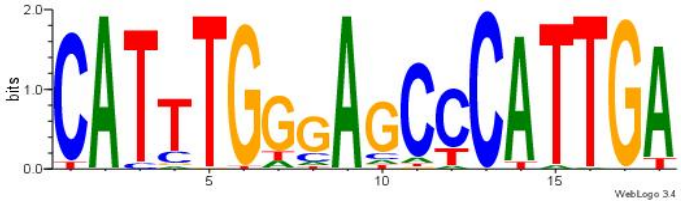

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

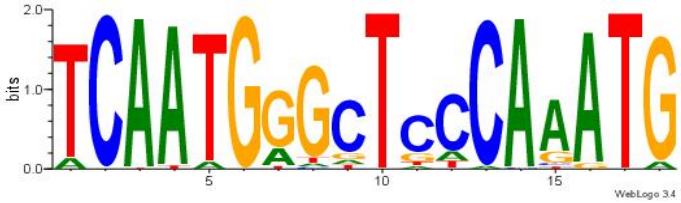

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0876823

Alignment:
AAGTTCTKGGKTACATGTGC
---------GTGACAGATG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

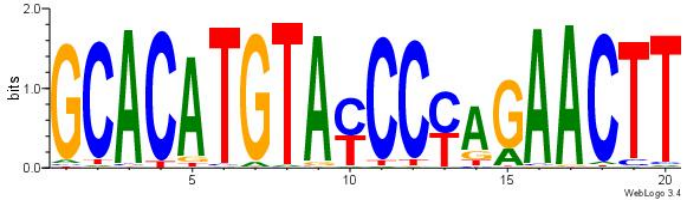

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

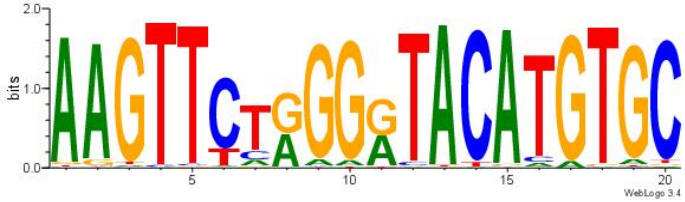

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0878978

Alignment:
AAGGGACATTKGAG
--GTGACAGATG--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

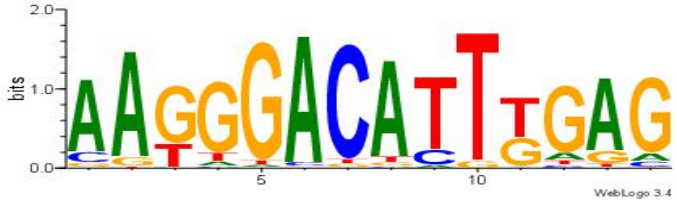

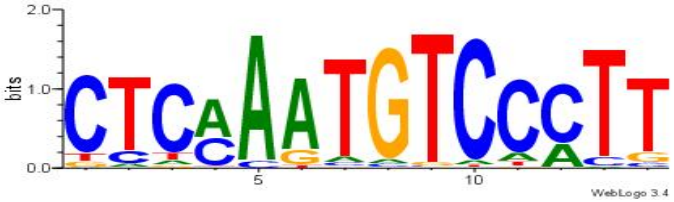

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0880136

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CATCTGTCAC----------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

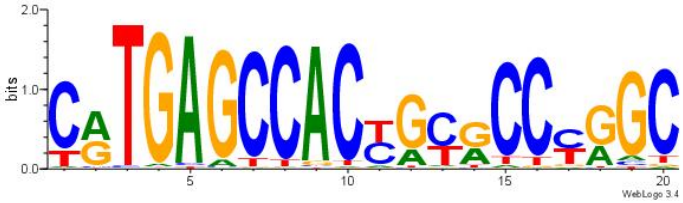

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

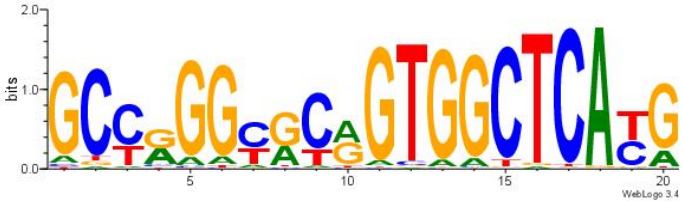

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0890457

Alignment:

```
TYTGTCMTTTTGTGACTGGC
----CATCTGTCAC------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

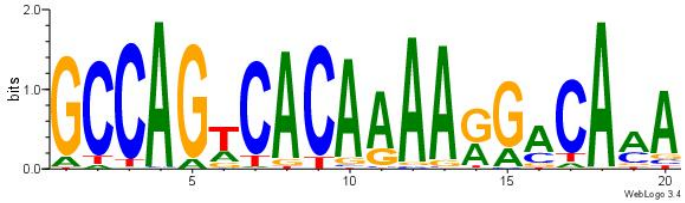

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

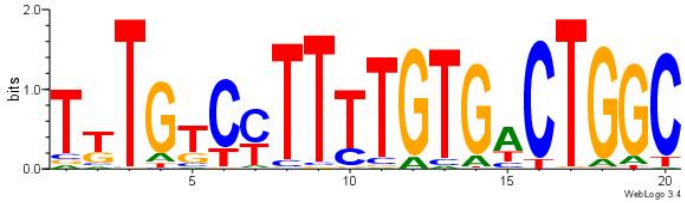

Dataset #:	1
Motif ID:	87
Motif name:	Motif 87
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0892474

Alignment:
CATGTGTGTCC
CATCTGTCAC-

Original motif Consensus sequence: CATGTGTGTCC

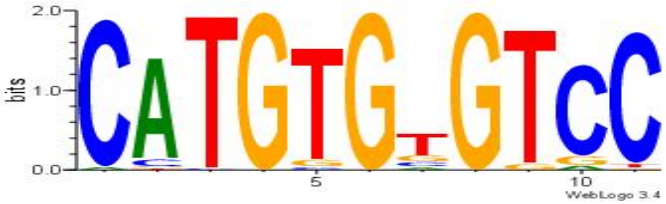

Reverse complement motif Consensus sequence: GGACACACATG

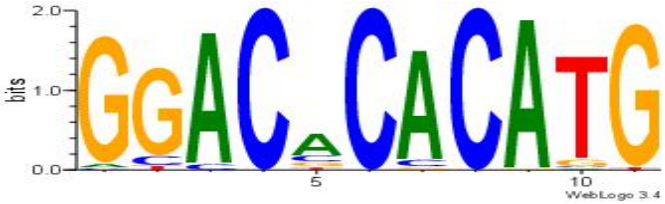

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0896953

Alignment:
AACAACASACACTGGGGCCT
--------CATCTGTCAC--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

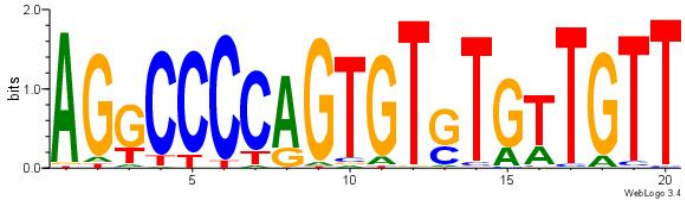

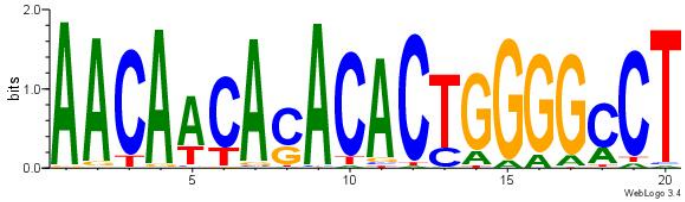

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.090909

Alignment:

```
GGTGATTTCTG
-GTGACAGATG
```

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

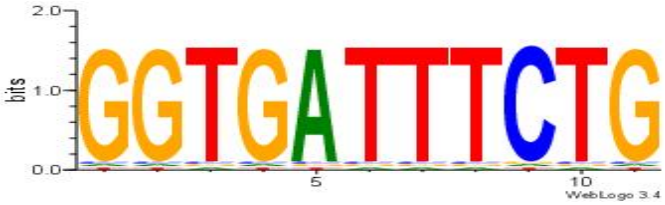

Dataset #:	1
Motif ID:	335

Motif name:	Motif 335
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.090909

Alignment:

```
TCAGCATTAAC
-CATCTGTCAC
```

Original motif Consensus sequence: GTTAATGCTGA

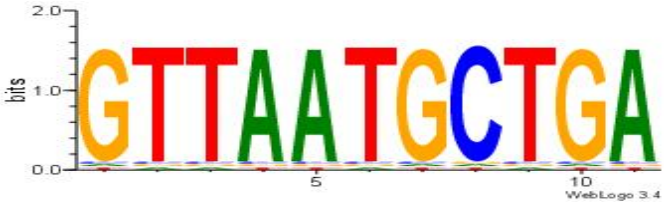

Reverse complement motif Consensus sequence: TCAGCATTAAC

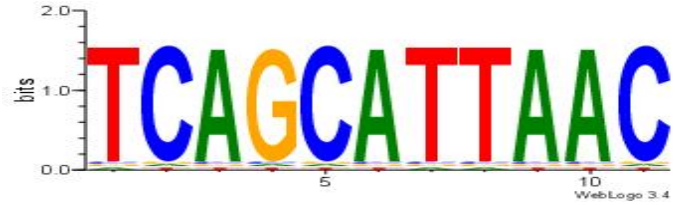

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0924571

Alignment:
CAAASCKGTCATAGGCCAT
--CATCTGTCAC-------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

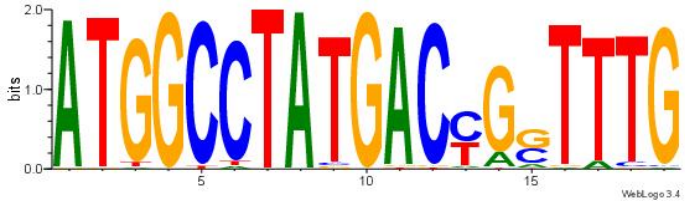

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

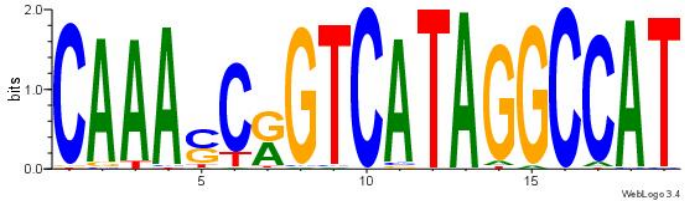

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0926227

Alignment:
AAAATGTGGTAYATAYAYAC
-----GTGACAGATG-----

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

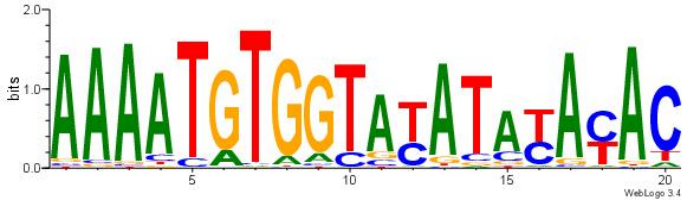

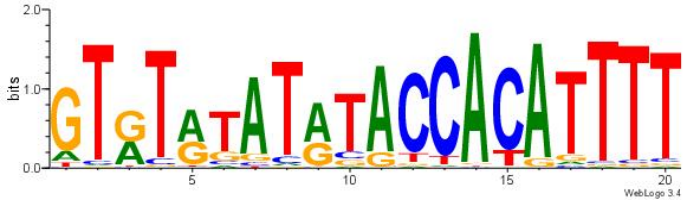

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0931858

Alignment:

```
GCAGCAMTATTCACAATAG
-----CATCTGTCAC----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

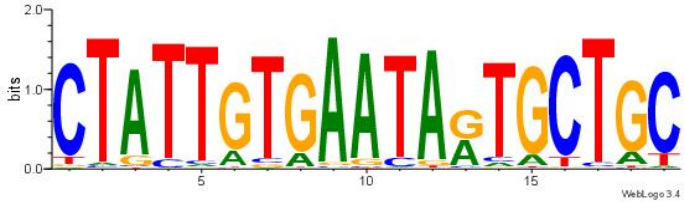

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

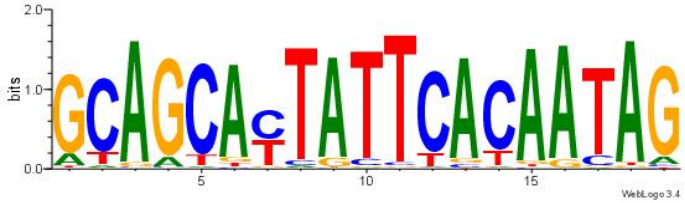

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0934565

Alignment:

```
CCTAGATTTCAGARGATGT
----GTGACAGATG-----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

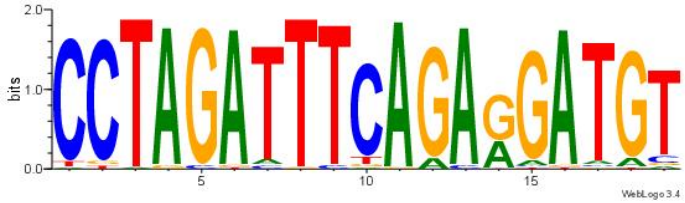

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

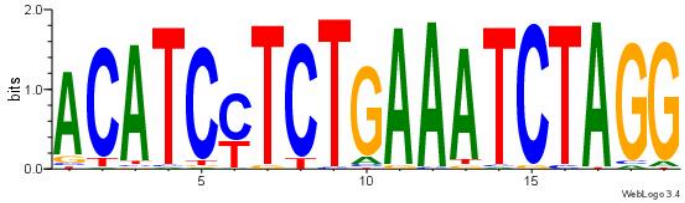

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0941829

Alignment:
CACTTCCCAGACGGGGCG
-----GTGACAGATG---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

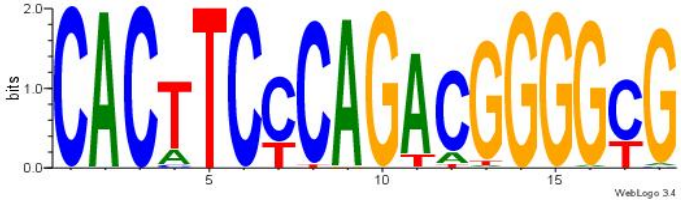

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

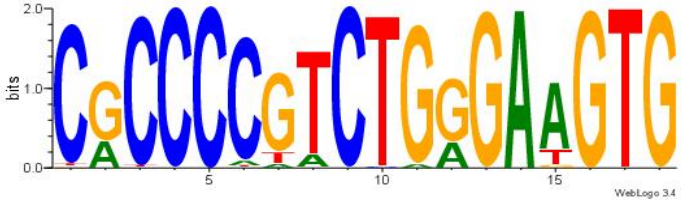

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0959825

Alignment:
ACTCCCTAGTGAGATGAACC
------GTGACAGATG----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

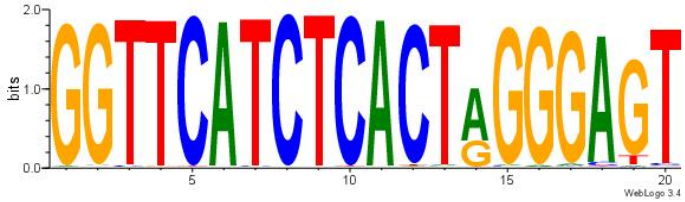

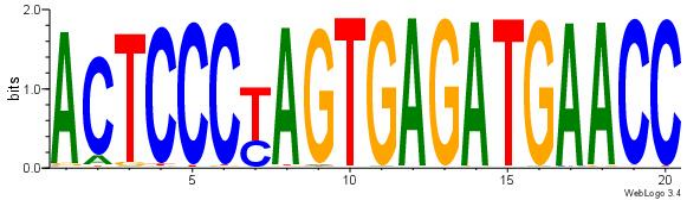

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0962181

Alignment:

```
AATTAAAAGACACAGACTG
--------GTGACAGATG-
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

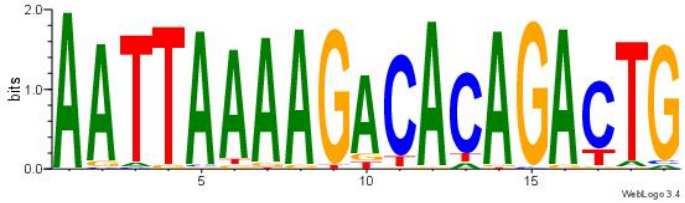

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

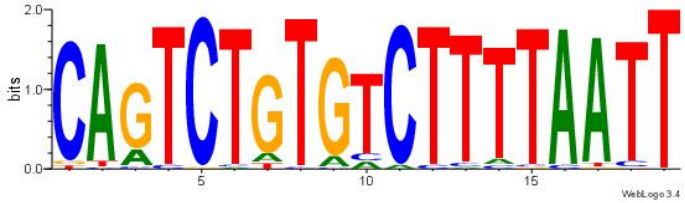

Dataset #: 1

Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0964357

Alignment:

```
TGTGACCTTGG
-GTGACAGATG
```

Original motif Consensus sequence: CCAAGGTCACA

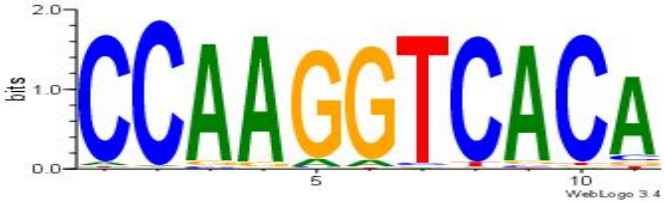

Reverse complement motif Consensus sequence: TGTGACCTTGG

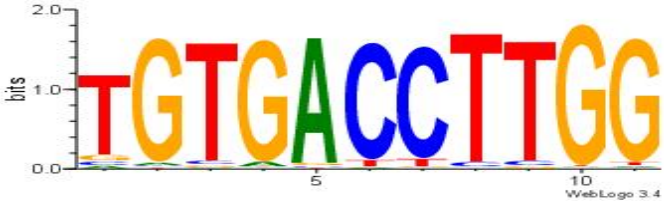

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0966956

Alignment:
GMTTAGCTCCCACTTA
---CATCTGTCAC---

Original motif Consensus sequence: TAAGTGGGAGCTAARC

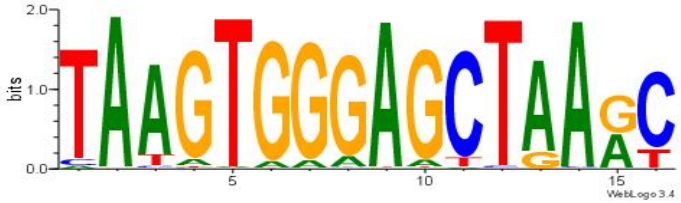

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

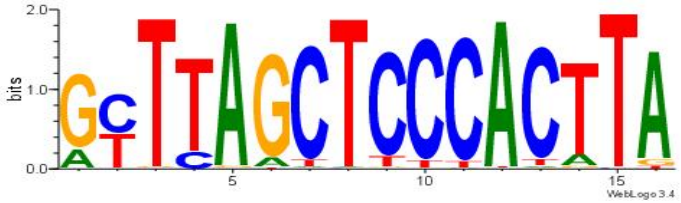

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0968188

Alignment:
GACATGAGCTGGCGCTTG
-----CATCTGTCAC---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

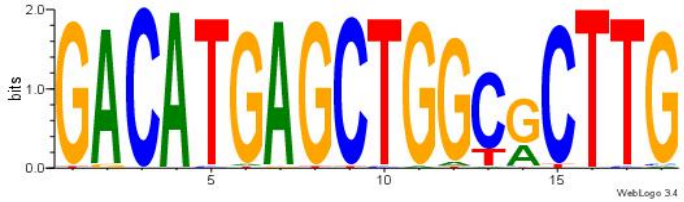

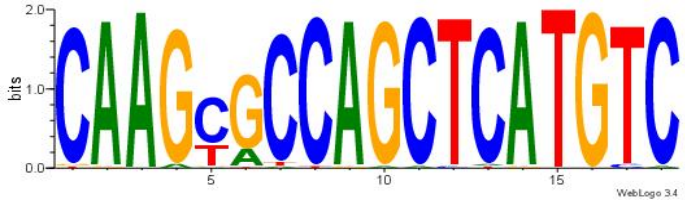

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.097033

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-----GTGACAGATG-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

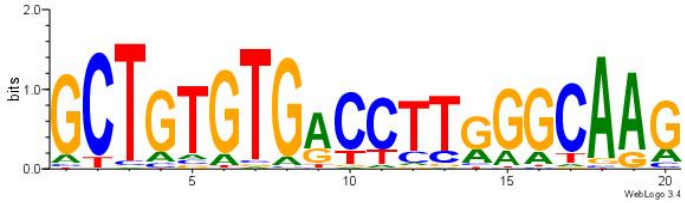

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

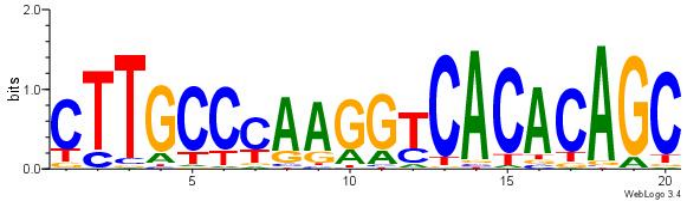

Dataset #:	1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0976217

Alignment:

```
AGCTAGAYACAGAGTGC
--GTGACAGATG-----
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

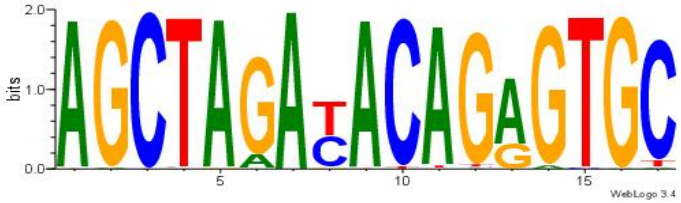

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

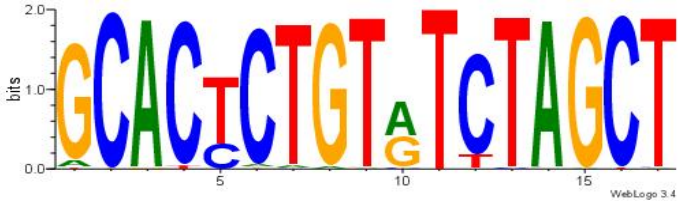

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0977266

Alignment:
ACTGTCTTCCACCTCCACAT
--CATCTGTCAC--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

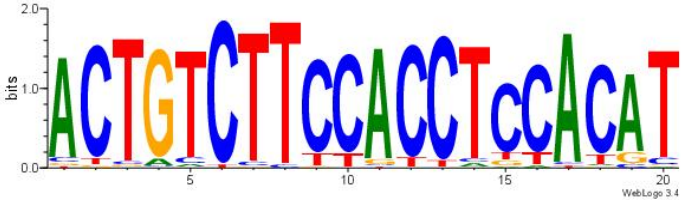

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

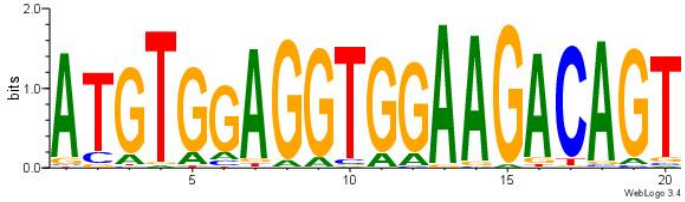

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.097847

Alignment:
CMTAGYACAGTGCCTGGCAC
CATCTGTCAC----------

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

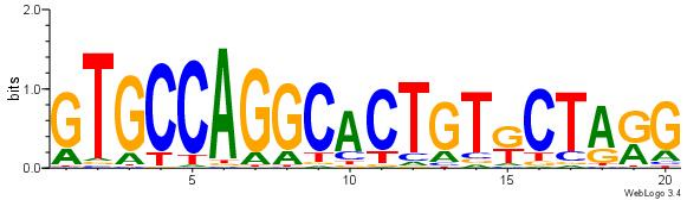

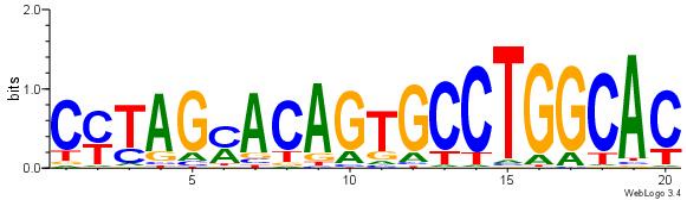

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0979065

Alignment:

```
CTCACAGAGTTAAA
----GTGACAGATG
```

Original motif Consensus sequence: CTCACAGAGTTAAA

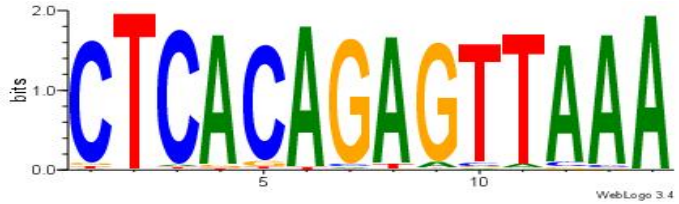

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

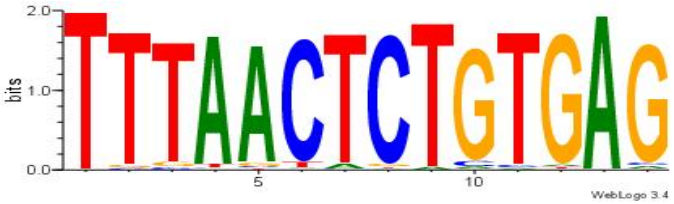

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0979851

Alignment:

```
TCCAAATGGGAGAAATTGGC
---GTGACAGATG-------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

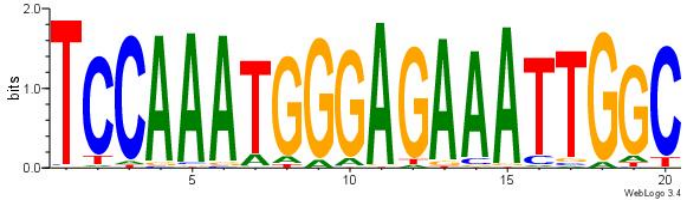

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

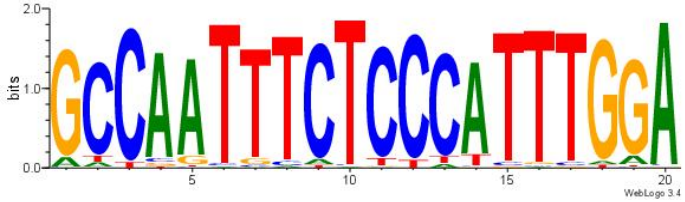

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0982406

Alignment:
CCCAAATCTCATSTTGAAT
--CATCTGTCAC-------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

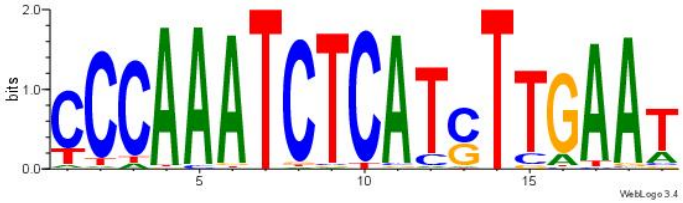

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

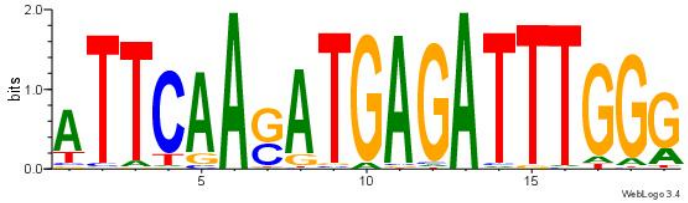

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0984356

Alignment:
CAGCCAGATCRSCC
----GTGACAGATG

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

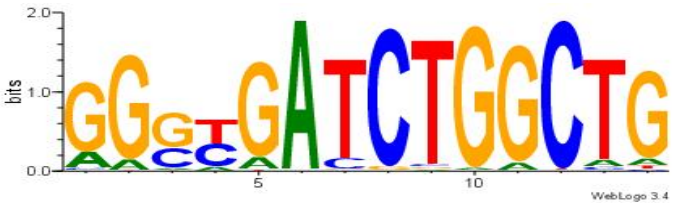

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0986552

Alignment:

```
GCTAATATATCCCTCCC
----CATCTGTCAC---
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

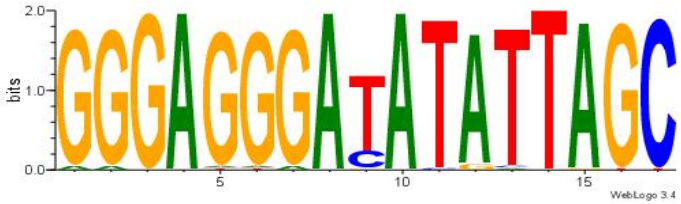

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

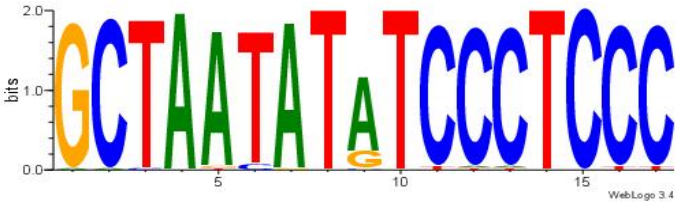

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0986667

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GTGACAGATG----------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

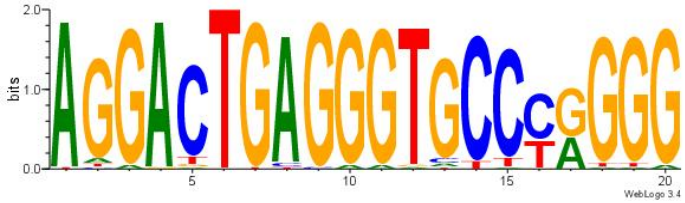

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

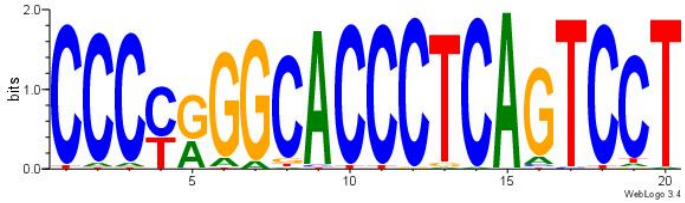

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0988985

Alignment:
ATCCAGTCTATCATTG
----CATCTGTCAC--

Original motif Consensus sequence: ATCCAGTCTATCATTG

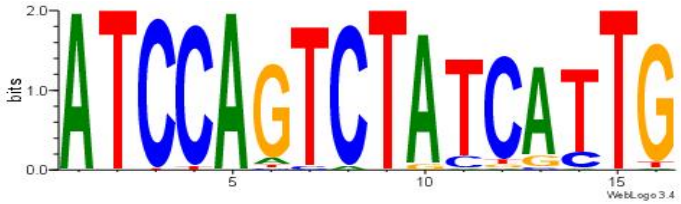

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

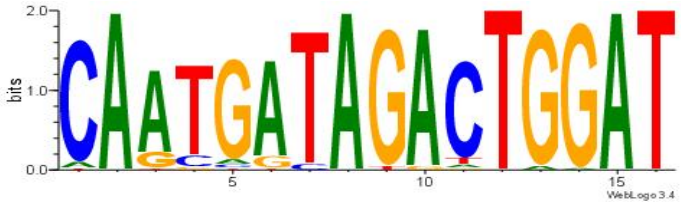

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0990085

Alignment:
TAGTGGTGATTTSTGAGAT
-----GTGACAGATG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

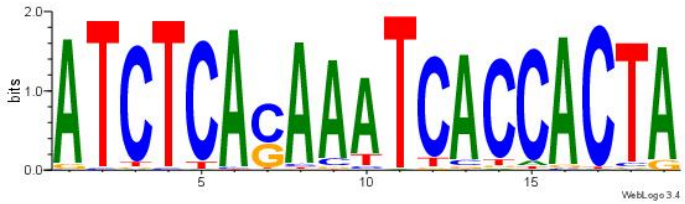

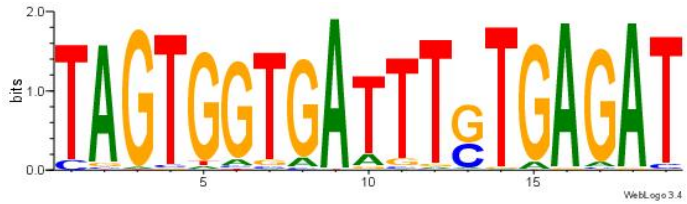

Dataset #: 1 Motif ID: 335 Motif name: Motif 335

Original motif Consensus sequence: GTTAATGCTGA

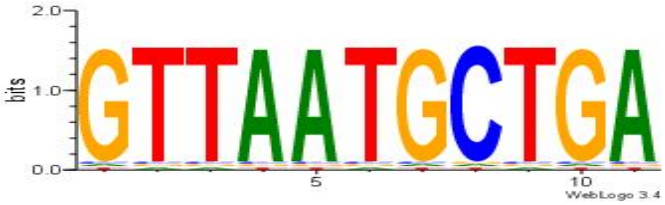

Reverse complement motif Consensus sequence: TCAGCATTAAC

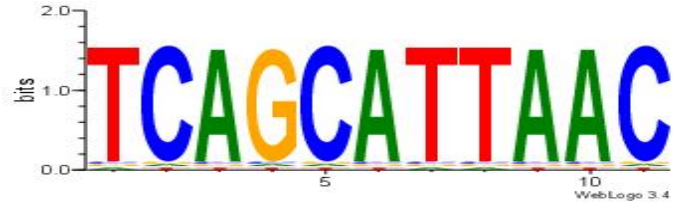

Best Matches for Significant Motif ID 335 (Highest to Lowest)

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.054088

Alignment:

```
ATATTGATGATCCTGACC
-----GTTAATGCTGA--
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

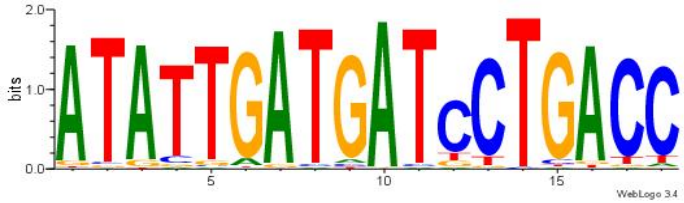

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

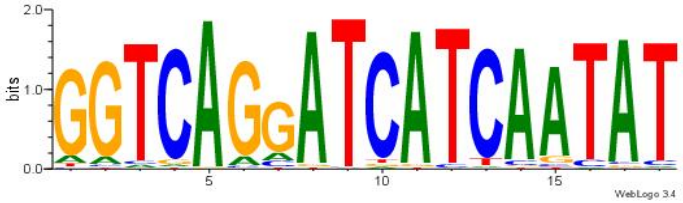

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0564195

Alignment:

```
GACAGGAGATTAACACTGAG
-GTTAATGCTGA--------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

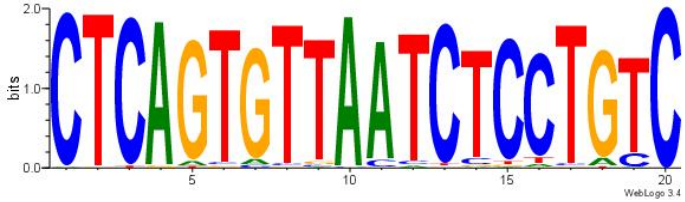

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

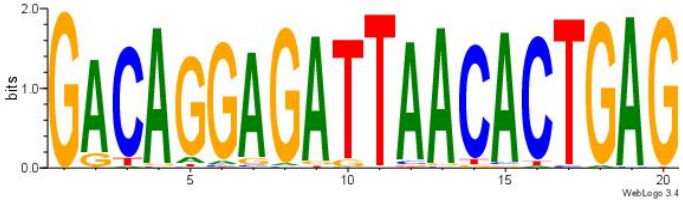

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0591879

Alignment:

```
TGTTATGCCTGAAAGT
----GTTAATGCTGA-
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

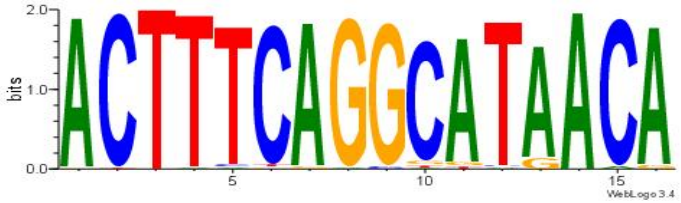

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

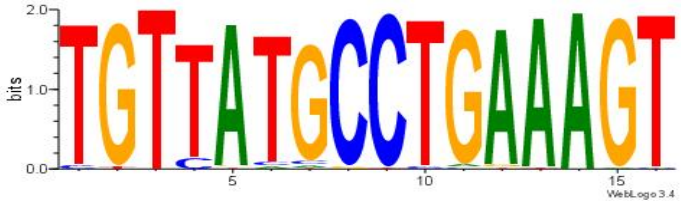

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 11
Similarity score: 0.0655056

Alignment:
ATCTCASAAATCACCACTA
-----TCAGCATTAAC---

Original motif Consensus sequence: ATCTCASAAATCACCACTA

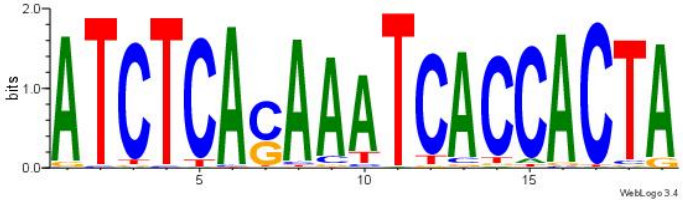

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

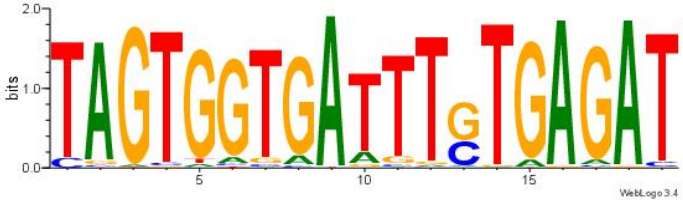

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0670851

Alignment:
GTTGTGAGGATTAAATGAG
----TCAGCATTAAC----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

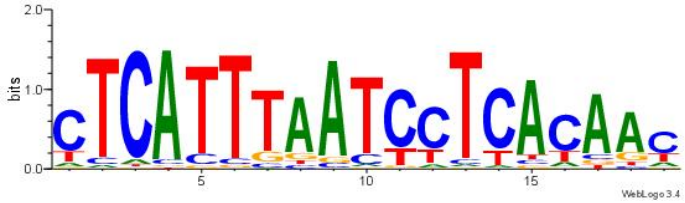

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

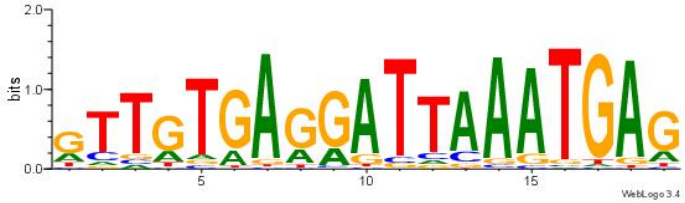

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0701503

Alignment:

```
CTATTGTGAATARTGCTGC
--------GTTAATGCTGA
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

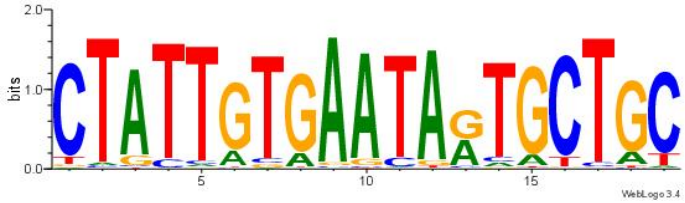

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

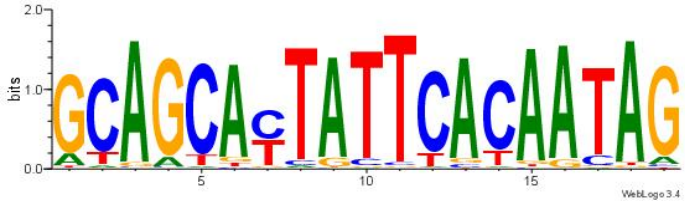

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0704812

Alignment:

```
ATGATCCAGCAATYCCACTH
----TCAGCATTAAC-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

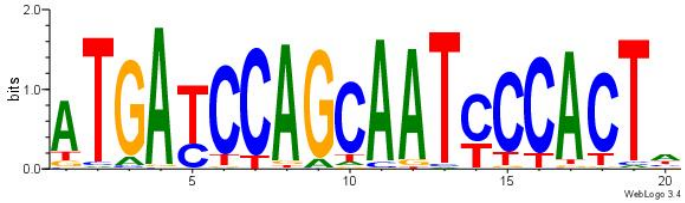

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

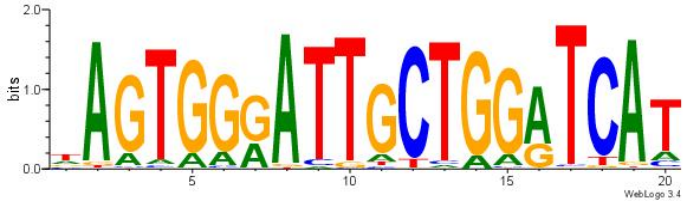

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 11
Similarity score: 0.0715535

Alignment:
ACCATCTTTAAGAACT
-TCAGCATTAAC----

Original motif Consensus sequence: AGTTCTTAAAGATGGT

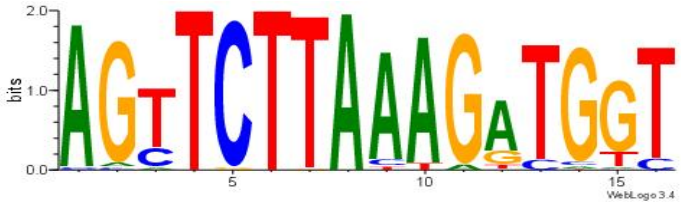

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

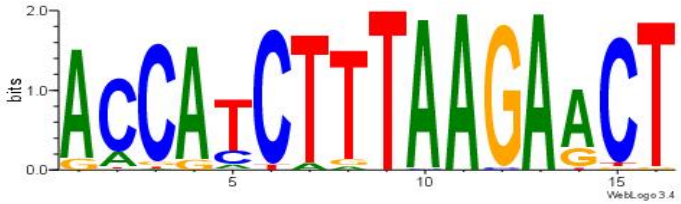

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.074533

Alignment:
GTTAACTGTAAAACAGCCT
GTTAATGCTGA--------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

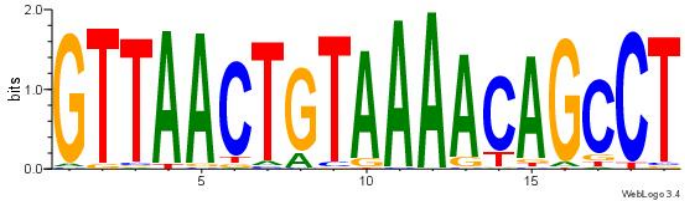

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

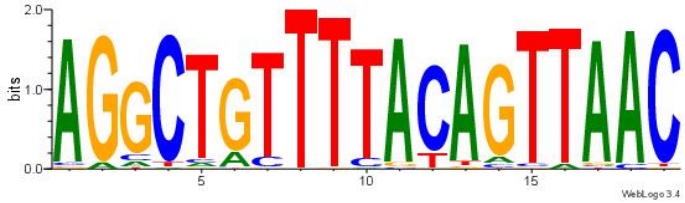

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0755871

Alignment:

```
CAAAGTCTTAACTCATT
-TCAGCATTAAC-----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

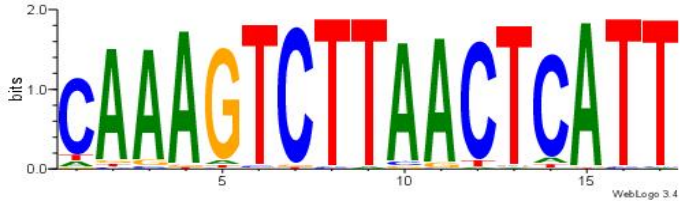

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0762642

Alignment:

```
TTTAACTCTGTGAG
---GTTAATGCTGA
```

Original motif Consensus sequence: CTCACAGAGTTAAA

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

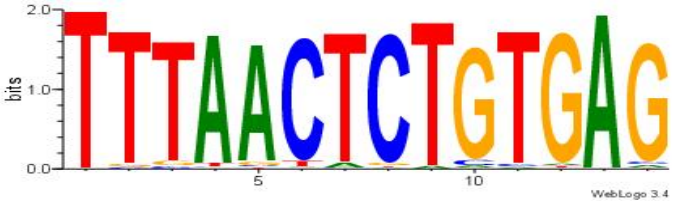

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0785659

Alignment:
CGTCGCTCACGCTGGGAGCT
-----GTTAATGCTGA----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

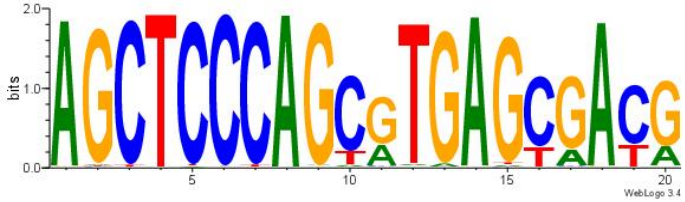

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

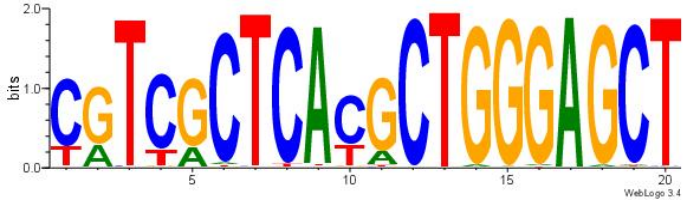

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0790621

Alignment:
CCTGCCATTGCYSAGGCTTG
---GTTAATGCTGA------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

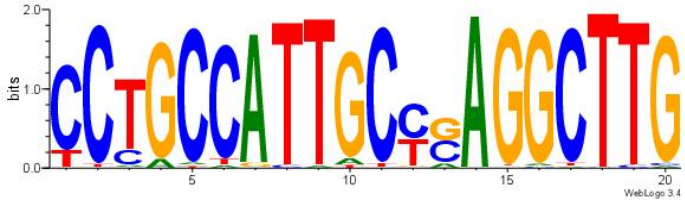

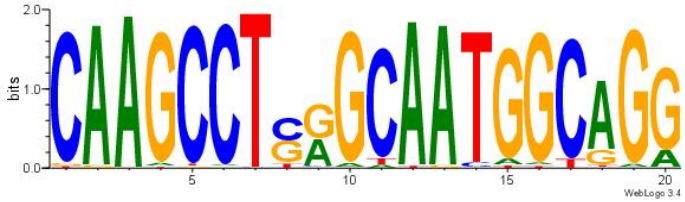

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0796235

Alignment:

```
AGCAGCTGTAAATA
--TCAGCATTAAC-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

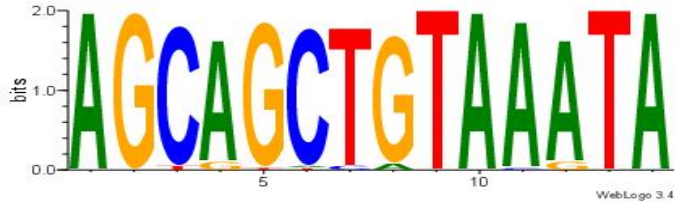

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

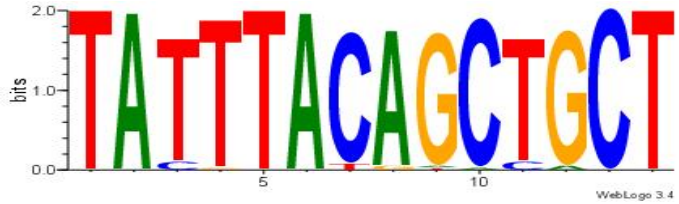

Dataset #:	1
Motif ID:	287

Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0800951

Alignment:

```
CATTATGCTAARTG
GTTAATGCTGA---
```

Original motif Consensus sequence: CATTATGCTAARTG

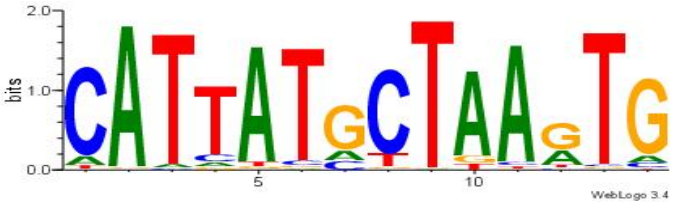

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

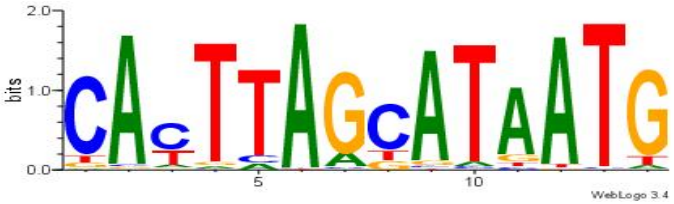

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0801195

Alignment:
CCCAAATCTCATSTTGAAT
TCAGCATTAAC--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

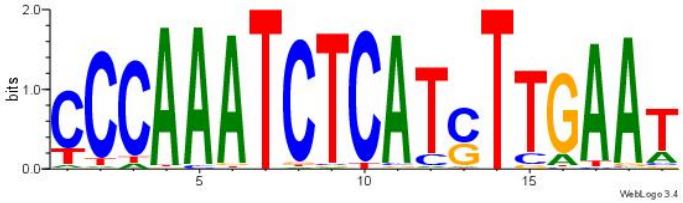

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

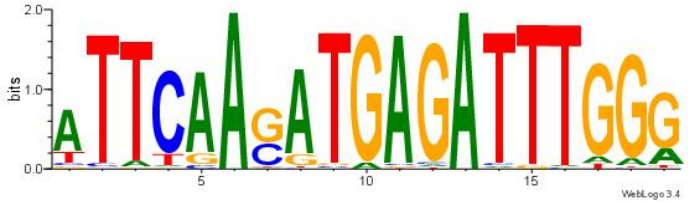

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0803053

Alignment:
TTYTTGTTGTTGTTGTT
-GTTAATGCTGA-----

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

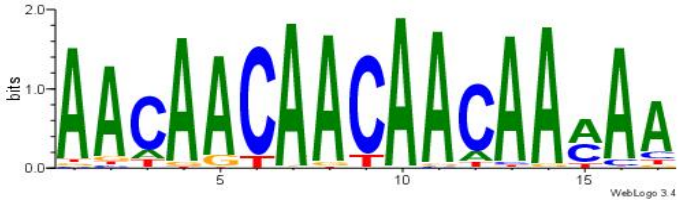

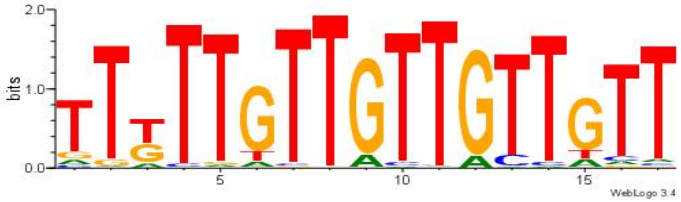

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0807091

Alignment:

```
TGCTGCTGCTGC
GTTAATGCTGA-
```

Original motif Consensus sequence: GCAGCAGCAGCA

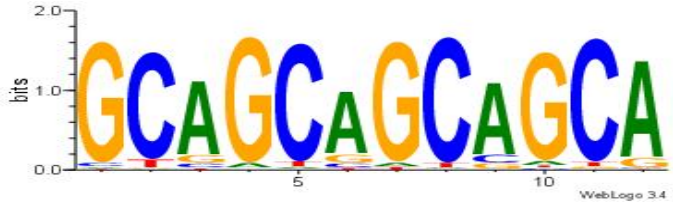

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

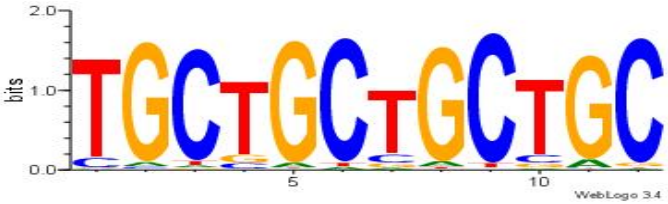

Dataset #:	1
Motif ID:	246

Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.080883

Alignment:

```
GCAGCTTCACTCCTGA
-----GTTAATGCTGA
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

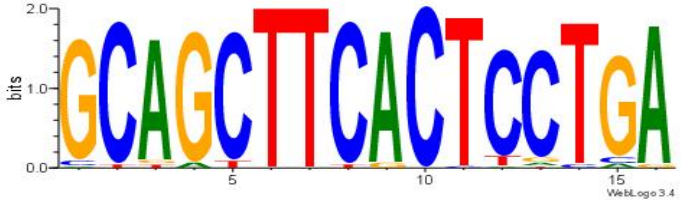

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

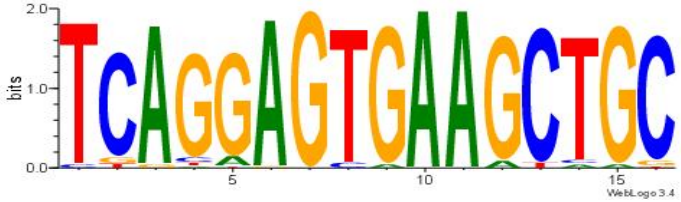

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0825409

Alignment:
CTGGGTCCCCCAGCAGTGCC
TCAGCATTAAC---------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

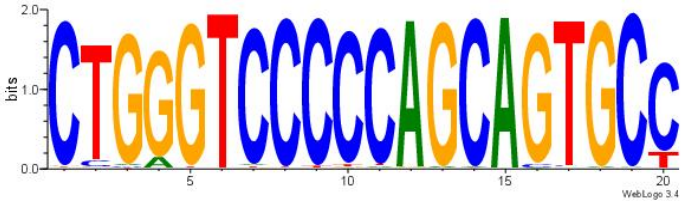

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

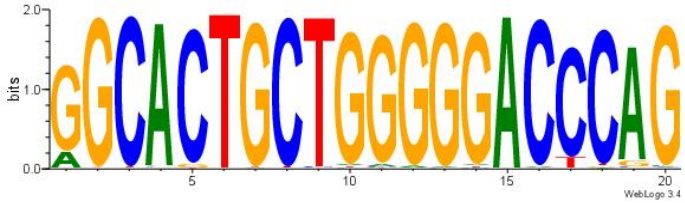

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0825805

Alignment:
AGTAGGTGCTCARTAAATRB
-GTTAATGCTGA--------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

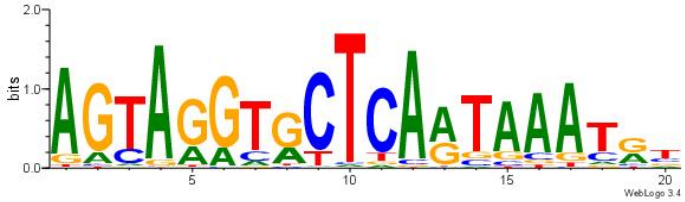

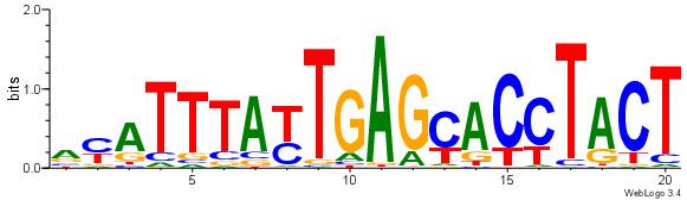

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0844719

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-TCAGCATTAAC--------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

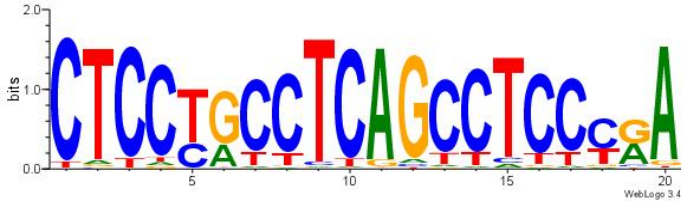

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

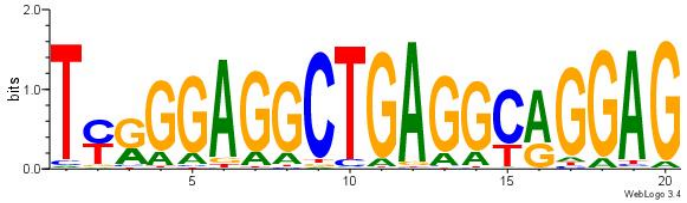

Dataset #:	1

Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0850157

Alignment:

```
GCCCTCACCAGAAGC
TCAGCATTAAC----
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

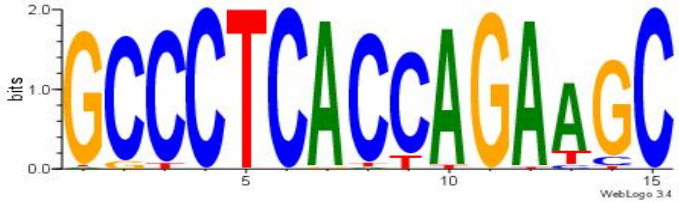

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

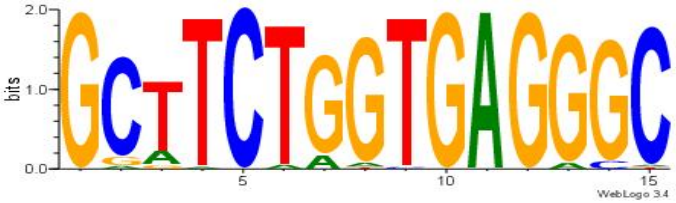

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0868367

Alignment:
AAAATCACAAGCATTCCTAT
--TCAGCATTAAC-------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

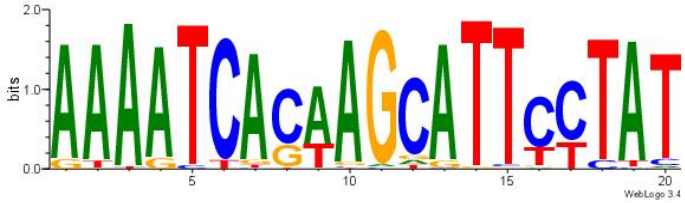

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

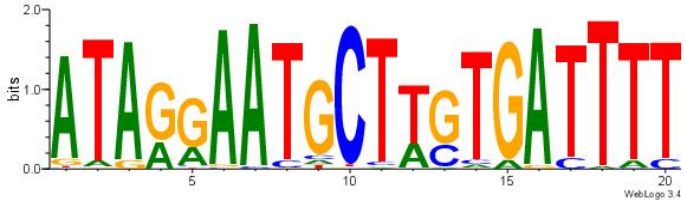

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0870876

Alignment:
CTGGCCCTCAATGGTTAAAC
------GTTAATGCTGA---

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

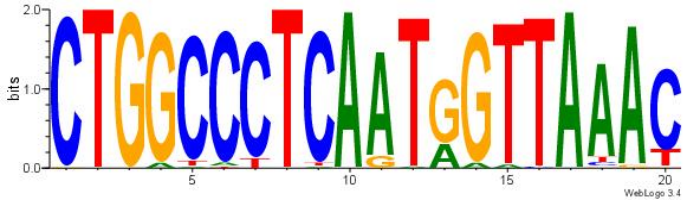

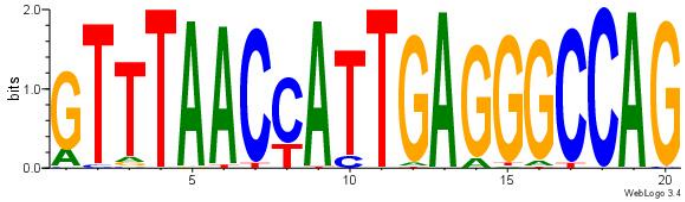

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897592

Alignment:

```
GAAAAGCGCAGTATTMGGG
-TCAGCATTAAC-------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

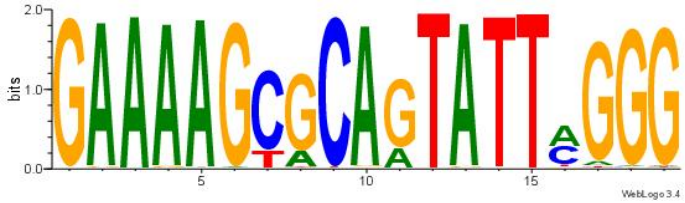

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

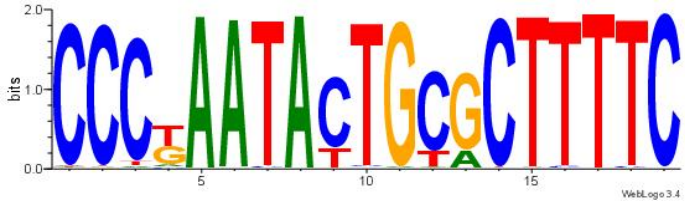

Dataset #: 1

Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0911211

Alignment:

```
RCAGTGTACACTGY
---TCAGCATTAAC
```

Original motif Consensus sequence: RCAGTGTACACTGY

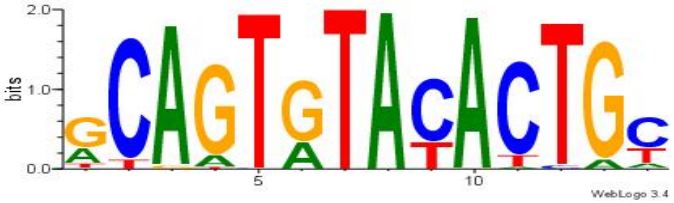

Reverse complement motif Consensus sequence: KCAGTGTACACTG

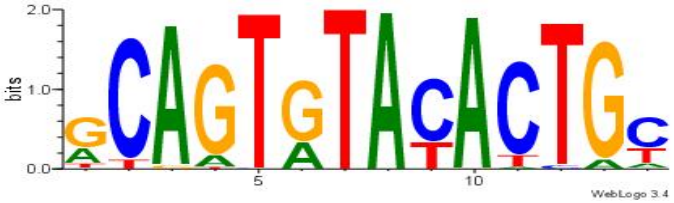

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0921844

Alignment:
CAGGTGGTKTTTGGTTACAT
------GTTAATGCTGA---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

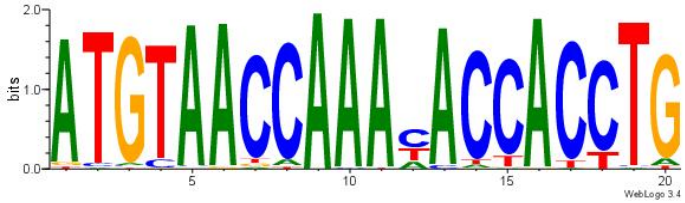

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

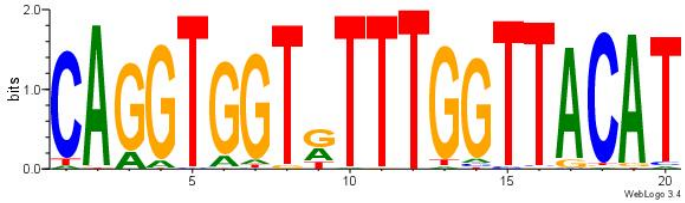

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0921982

Alignment:
AGGTCCTTCAGGAGGTATTC
--TCAGCATTAAC-------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

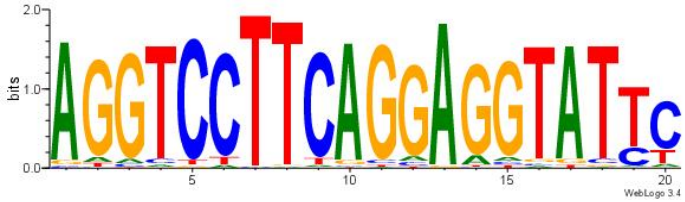

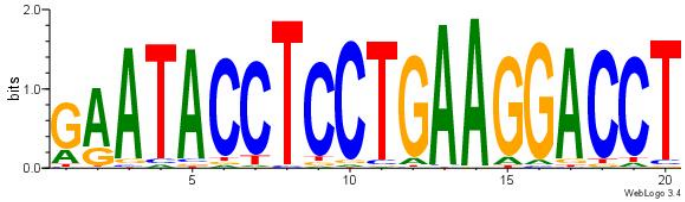

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0926399

Alignment:

```
GCACATGTAYCCYAGAACTT
--TCAGCATTAAC-------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

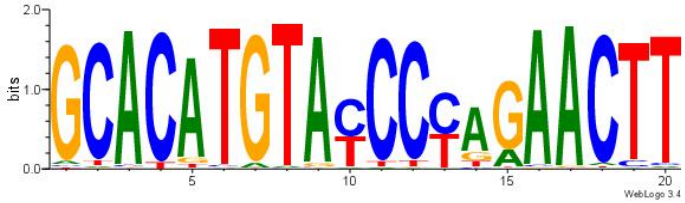

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

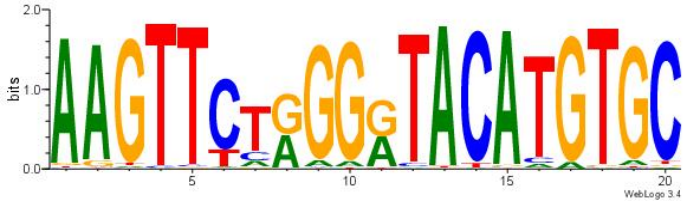

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0932082

Alignment:

```
ACACATCACAAAGCAGTTTC
-------TCAGCATTAAC--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

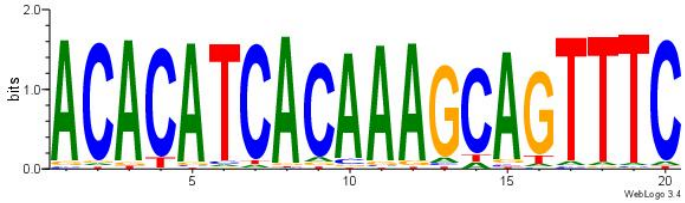

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

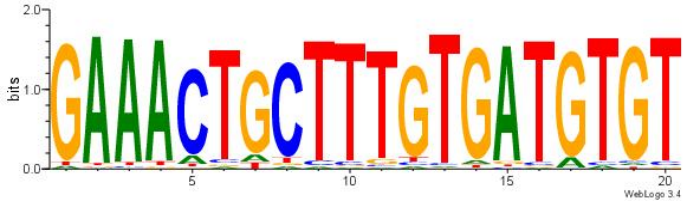

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0938852

Alignment:
GAAGGCAGCTAAGGCCCGGY
-------GTTAATGCTGA--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

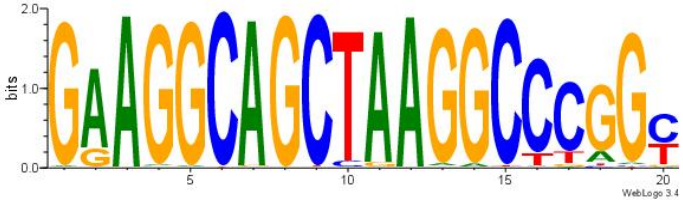

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

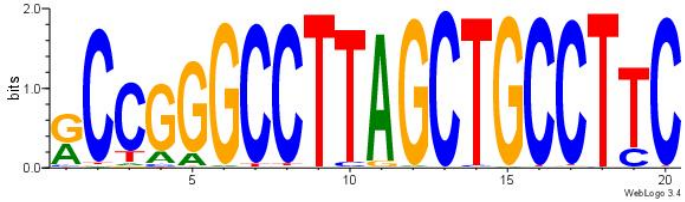

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0941564

Alignment:
CCCACGCCCACCCGGAACT
-------TCAGCATTAAC-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

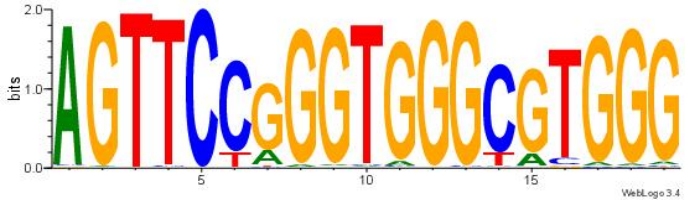

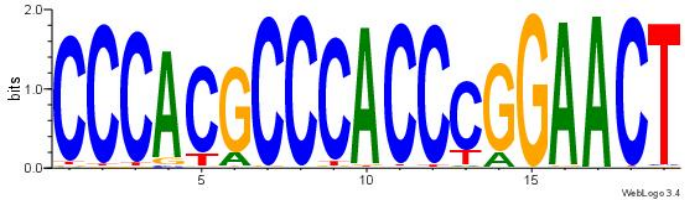

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0942029

Alignment:

```
ACTGTCTTCCACCTCCACAT
--TCAGCATTAAC-------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

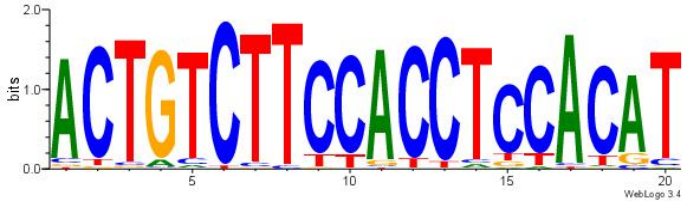

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

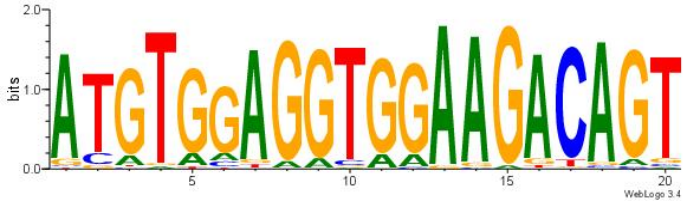

Dataset #: 1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0944536

Alignment:

```
KACATTGATTTTGTATC
---GTTAATGCTGA---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

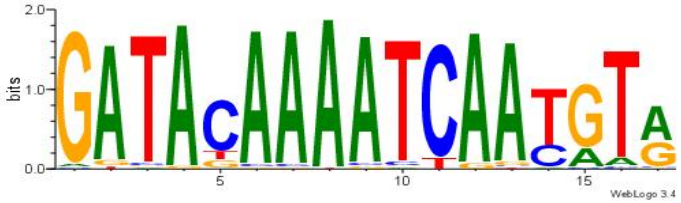

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

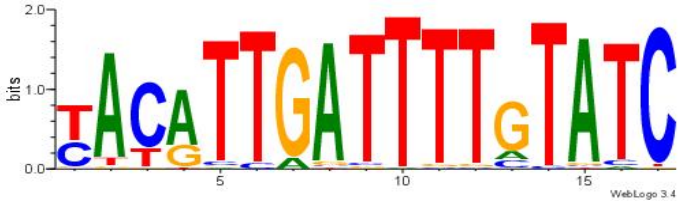

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0944838

Alignment:
CGGCTTCATTCTTGAAGTC
----GTTAATGCTGA----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

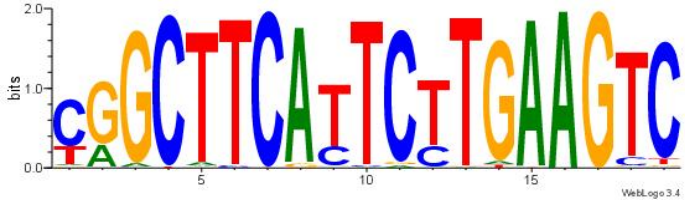

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0946584

Alignment:
AATCAACCCTGGYRATCAAT
-GTTAATGCTGA--------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

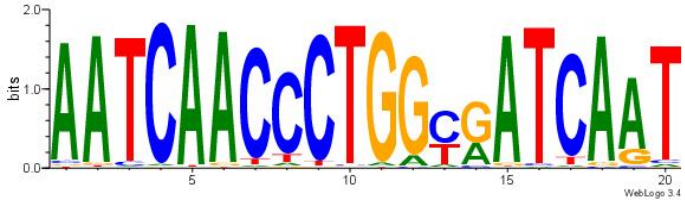

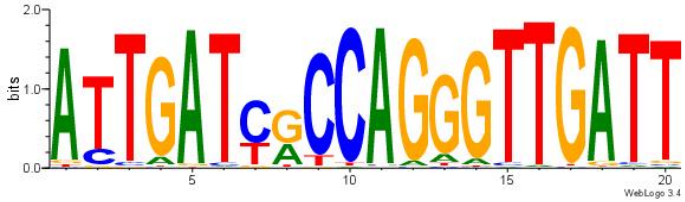

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0949317

Alignment:

```
TAAGTGGGAGCTAARC
---GTTAATGCTGA--
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

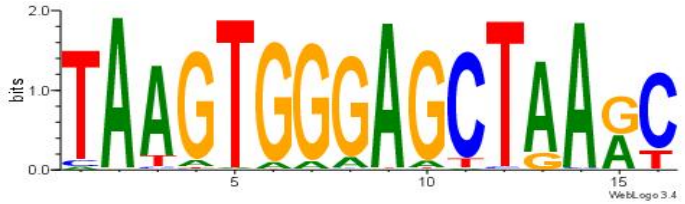

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

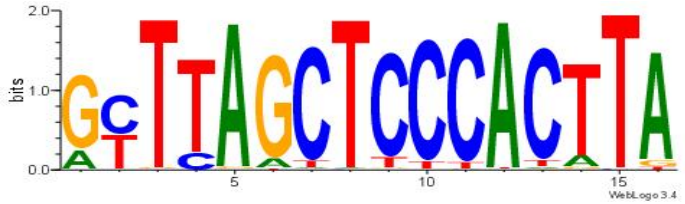

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0955581

Alignment:

```
TTCAMTCATGATTTGGCTCT
GTTAATGCTGA---------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

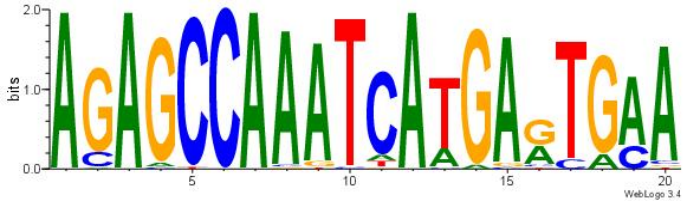

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

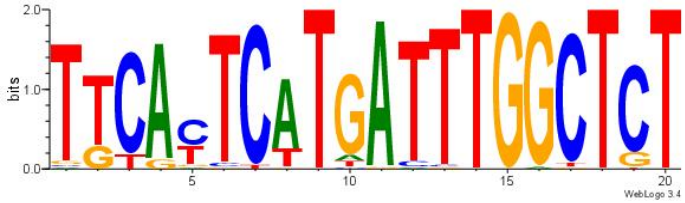

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0961734

Alignment:
GCTGATAAAGAC
GTTAATGCTGA-

Original motif Consensus sequence: GCTGATAAAGAC

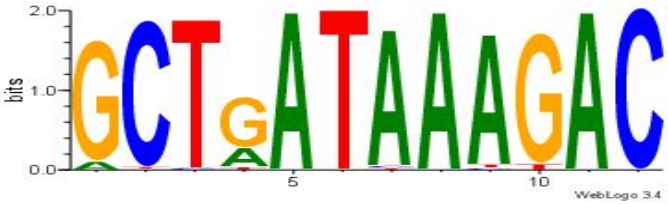

Reverse complement motif Consensus sequence: GTCTTTATCAGC

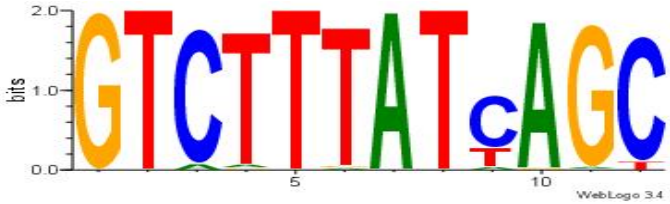

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.09633

Alignment:
GGTTTTCCATTCCTGAG
-GTTAATGCTGA-----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

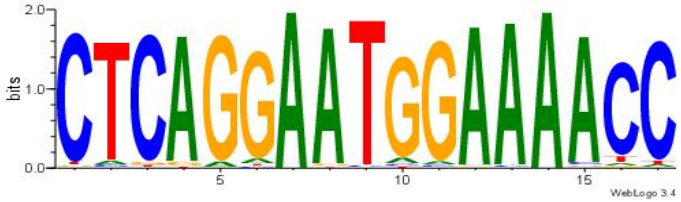

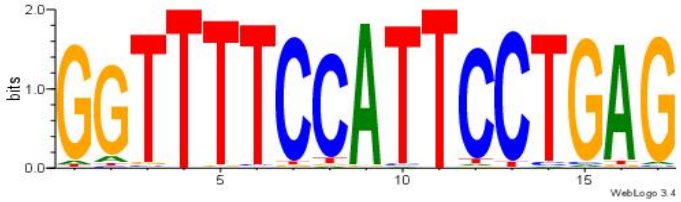

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0963462

Alignment:

```
TAATTTTATGTGTCAACTTG
------TCAGCATTAAC---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

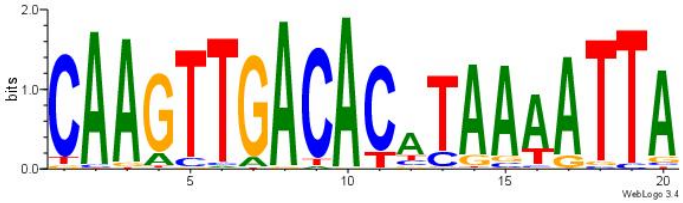

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

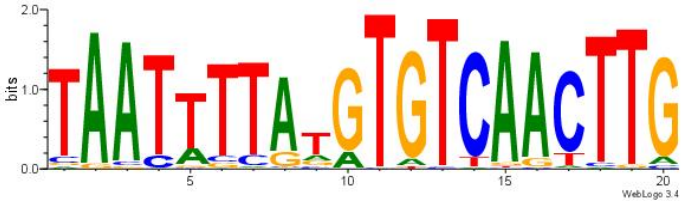

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0964051

Alignment:

```
AGAGCTCTGGCTGGCATCT
-----GTTAATGCTGA---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

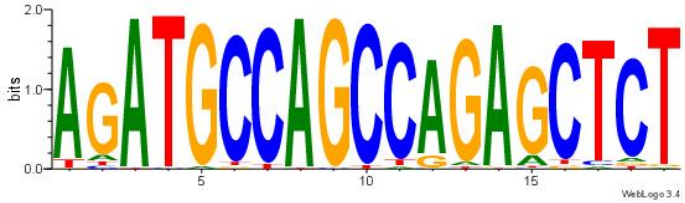

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

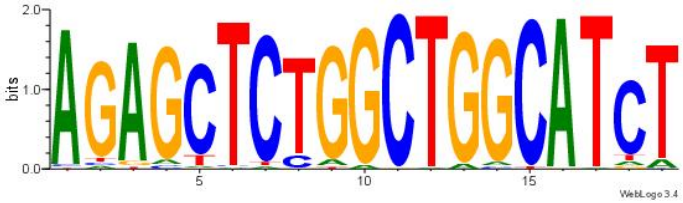

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0968596

Alignment:
MGCTGAGGCAGGAG
--GTTAATGCTGA-

Original motif Consensus sequence: CTCCTGCCTCAGCY

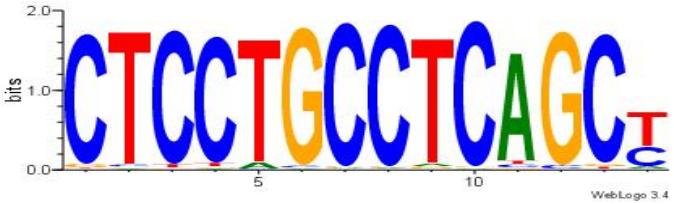

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

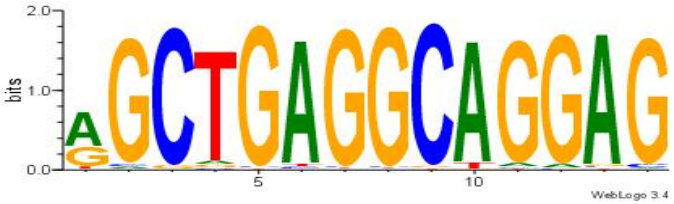

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0969977

Alignment:
GTTGGCCAGGCTGGTCT
---GTTAATGCTGA---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

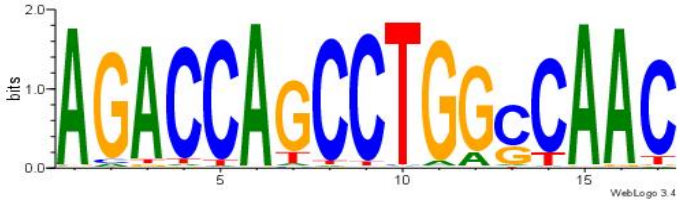

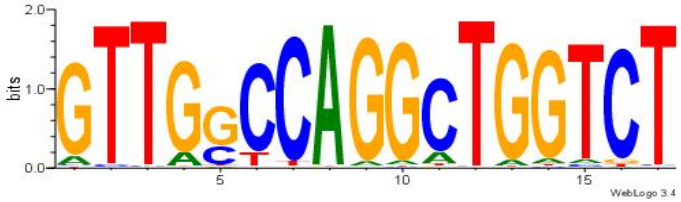

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0971438

Alignment:

```
ATCATTCTTATGCCTTTG
-TCAGCATTAAC------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

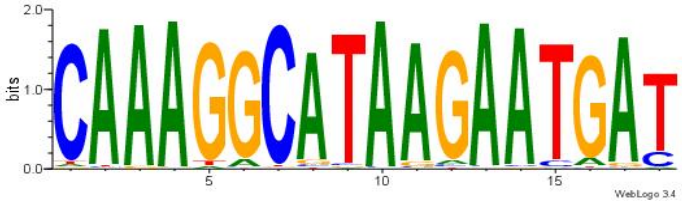

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

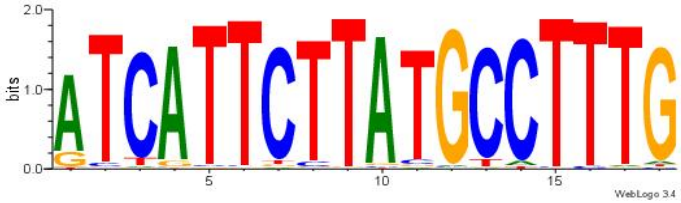

Dataset #: 1

Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.097874

Alignment:

```
GTGGGTGCAGTGCA
---GTTAATGCTGA
```

Original motif Consensus sequence: TGCACTGCACCCAC

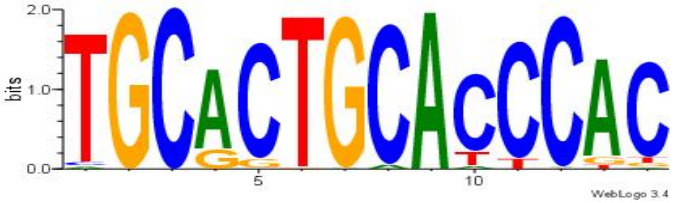

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

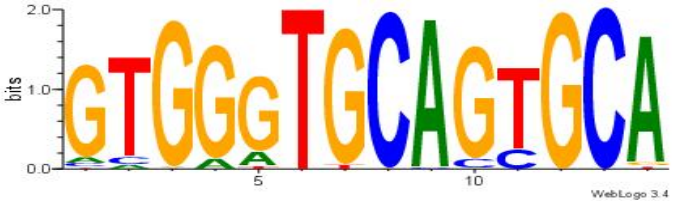

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0978767

Alignment:
GGTGCCAGCTGT
GTTAATGCTGA-

Original motif Consensus sequence: ACAGCTGGCACC

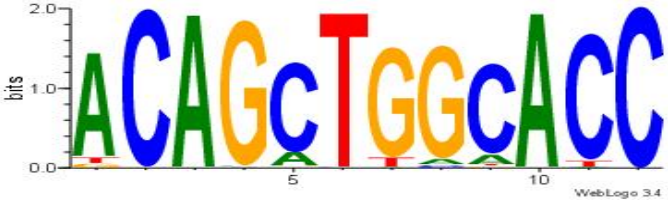

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

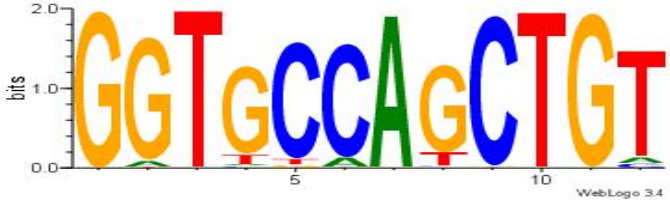

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0982117

Alignment:
TCCTATGAGAATCTAATG
-----TCAGCATTAAC--

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

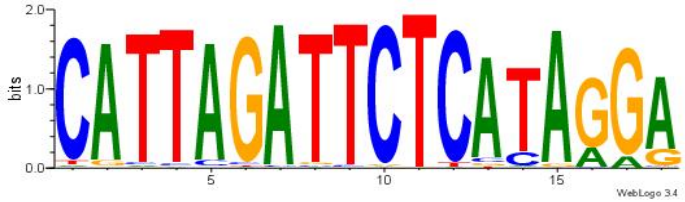

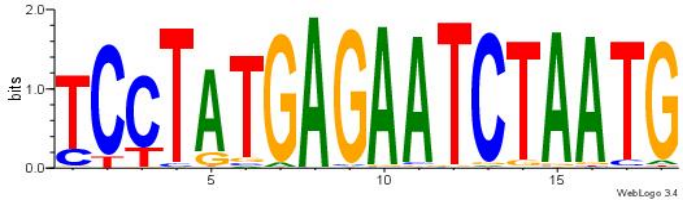

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0988919

Alignment:

```
GCCGTTTKTTAAGCCCGTY
-------GTTAATGCTGA-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

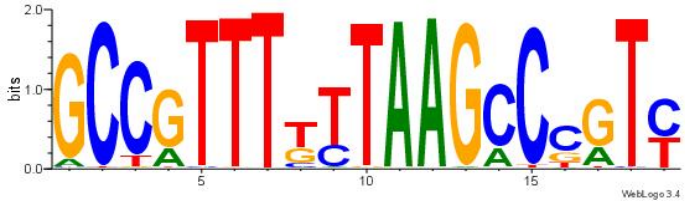

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

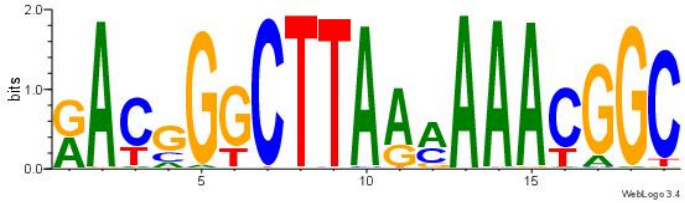

Best Matches for Each Motif (Highest to Lowest)

Dataset #: 1 Motif ID: 1 Motif name: Motif 1

Original motif Consensus sequence: GGGGTGACAGABGB

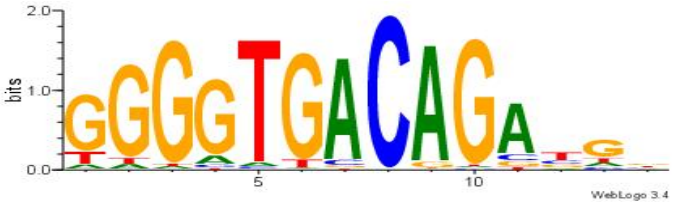

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

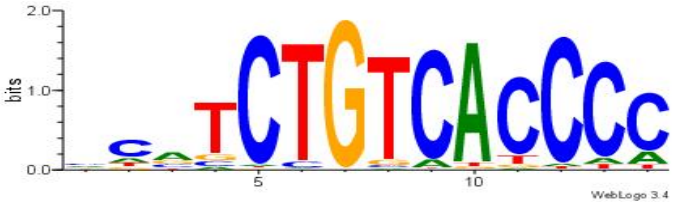

Best Matches for Motif ID 1 (Highest to Lowest)

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0644652

Alignment:

```
CTGGGCRACAGAGYRAGACY
-GGGGTGACAGABGB-----
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

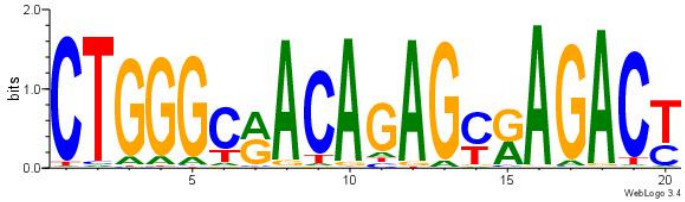

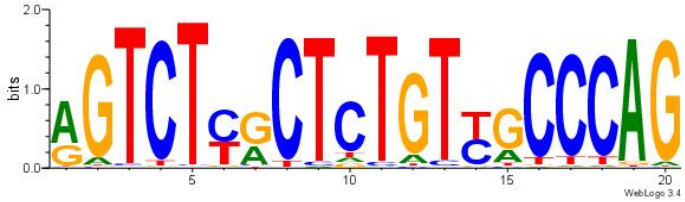

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0767787

Alignment:

```
ACTGTCTTCCACCTCCACAT
-BCVTCTGTCACCCC-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

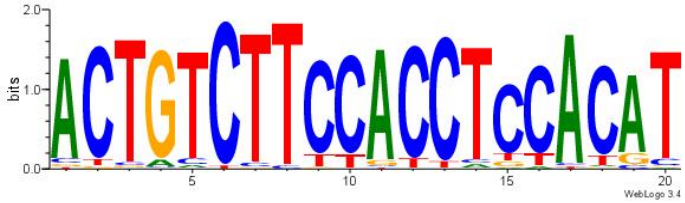

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

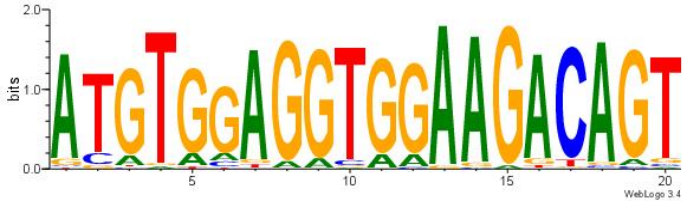

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0824915

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-BCVTCTGTCACCCC-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

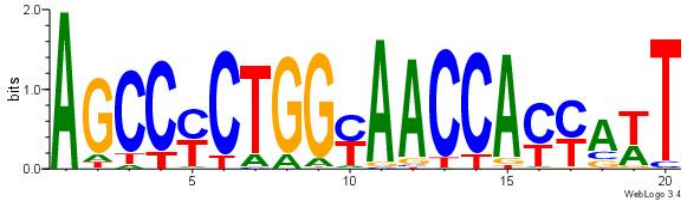

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

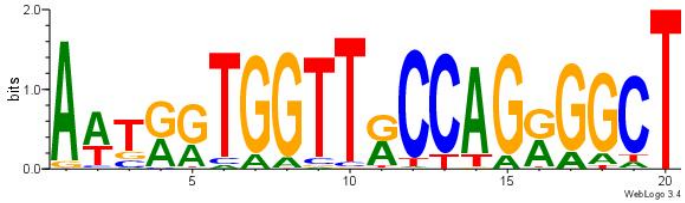

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.0825056

Alignment:
TAATTTTATGTGTCAACTTG
-----BCVTCTGTCACCCC-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

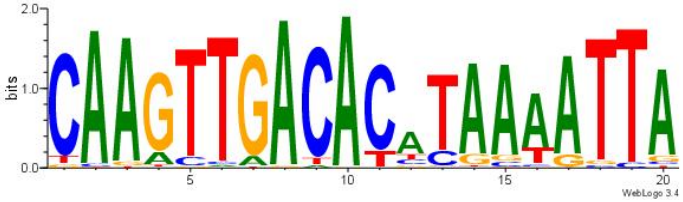

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

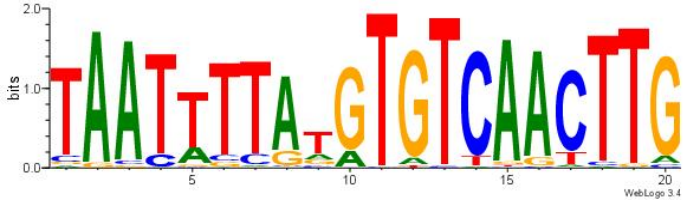

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0851234

Alignment:
GAGAGAGAGAGAGAGAGAGA
---GGGGTGACAGABGB---

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

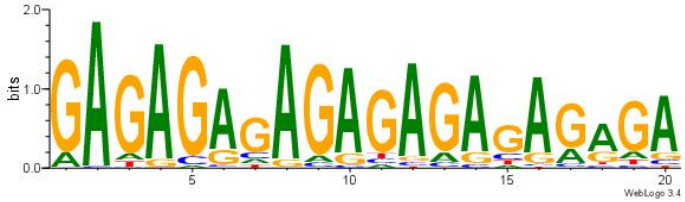

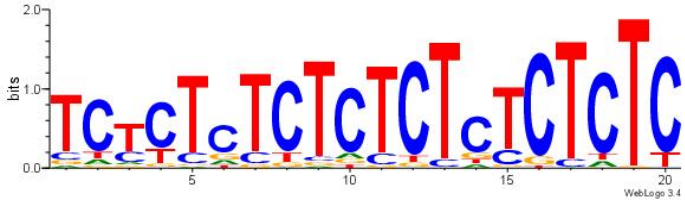

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0864815

Alignment:

```
CTTGGGTGGTCGATGGGAC
--GGGGTGACAGABGB---
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

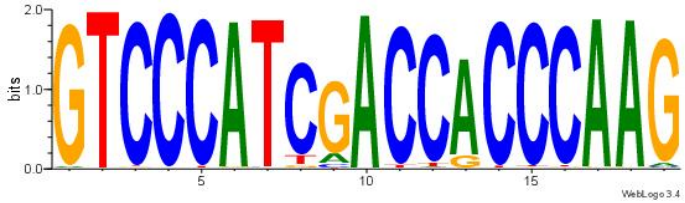

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

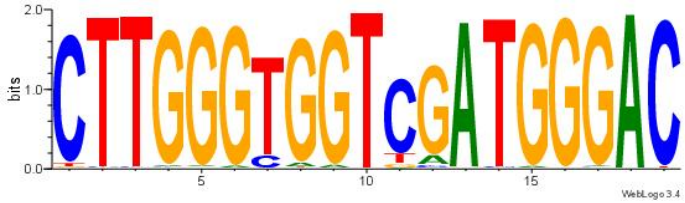

Dataset #:	1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0866694

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-----BCVTCTGTCACCCC-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

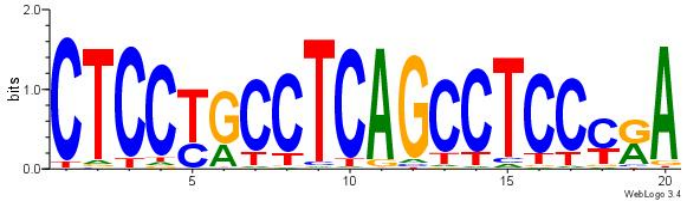

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

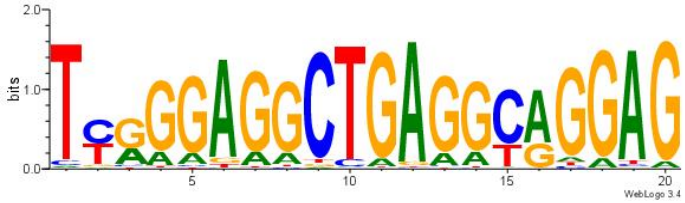

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0873063

Alignment:
MGTGTGATGTCTCCCCC
--BCVTCTGTCACCCC-

Original motif Consensus sequence: GGGGGAGACATCACACR

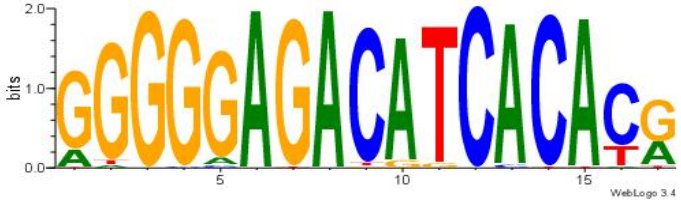

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

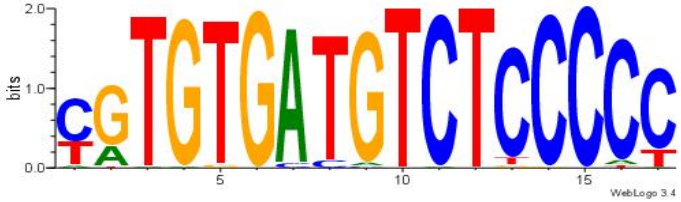

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.087665

Alignment:
GGGGGCTGACCCCCCCACC
-BCVTCTGTCACCCC----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

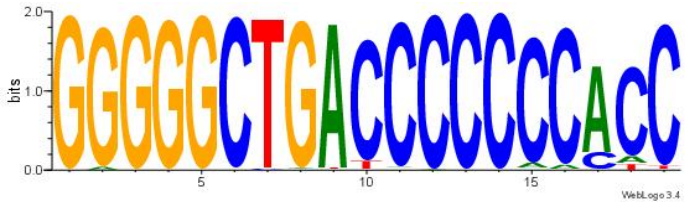

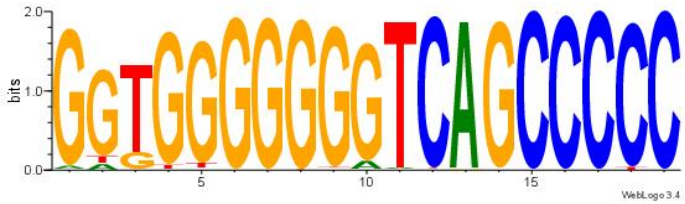

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0880453

Alignment:

```
CTTGCCCAAGGTCACACAGC
----BCVTCTGTCACCCC--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

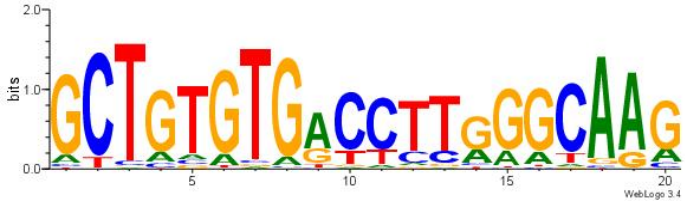

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

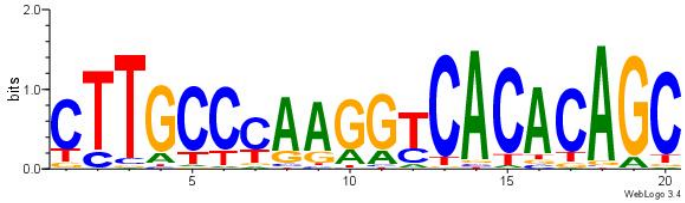

Dataset #: 1

Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0901142

Alignment:

```
GAGGAGGRGGAGGDGGV
GGGGTGACAGABGB---
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

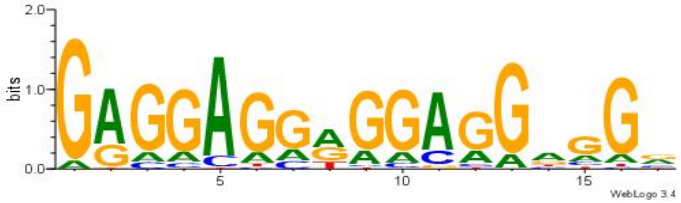

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

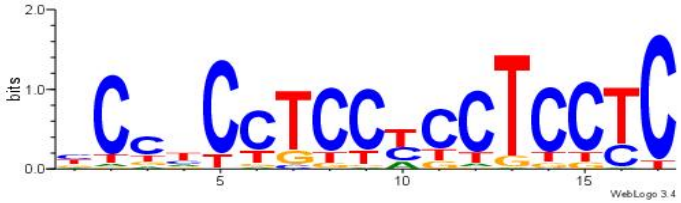

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.090486

Alignment:
AAGTTCTKGGKTACATGTGC
------GGGGTGACAGABGB

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

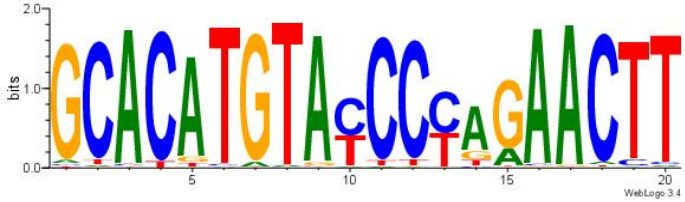

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

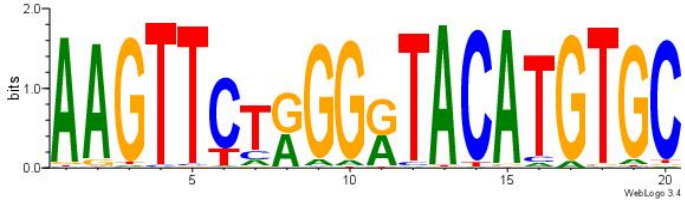

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0905561

Alignment:
CTGACTGGGAGACACCTCCC
-----GGGGTGACAGABGB-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

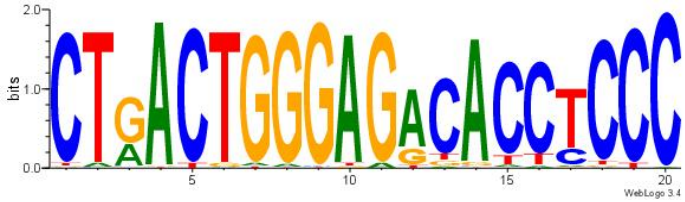

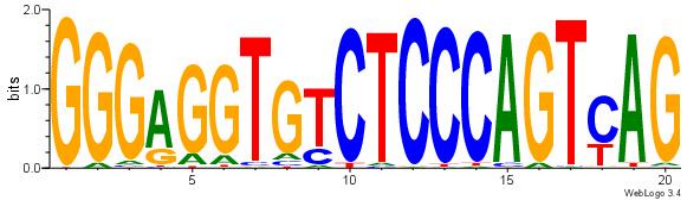

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0912807

Alignment:

```
CAGACTGCCTCCTCAA
BCVTCTGTCACCCC--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

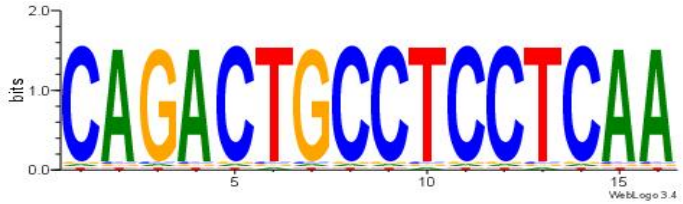

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

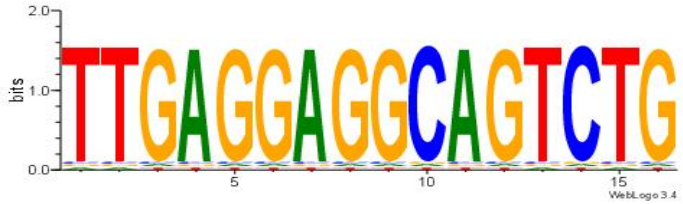

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0947555

Alignment:

```
GCCTCTCCCTCCACACCTCC
BCVTCTGTCACCCC------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

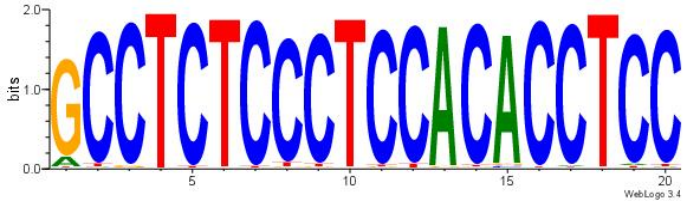

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

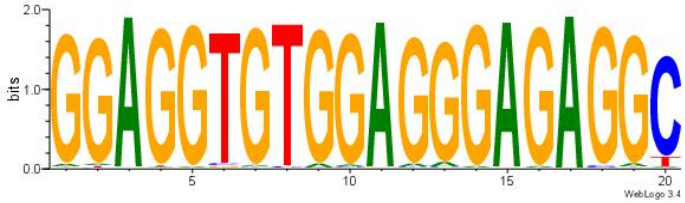

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.0953817

Alignment:
ACCATCTTTAAGAACT
-BCVTCTGTCACCCC-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

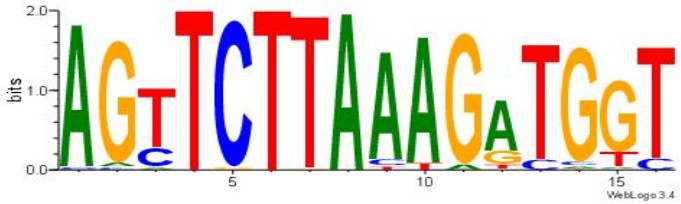

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

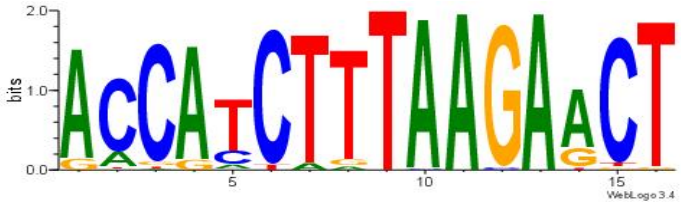

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0964055

Alignment:
GGGRSCACAGGAGCD
GGGGTGACAGABGB-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

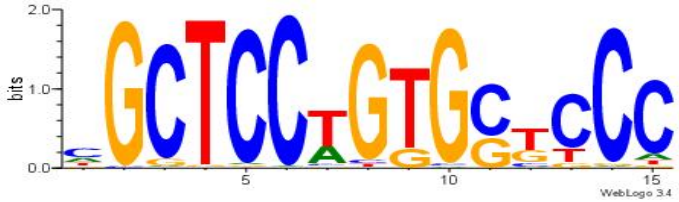

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0973911

Alignment:

```
TCCAAATGGGAGAAATTGGC
------GGGGTGACAGABGB
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

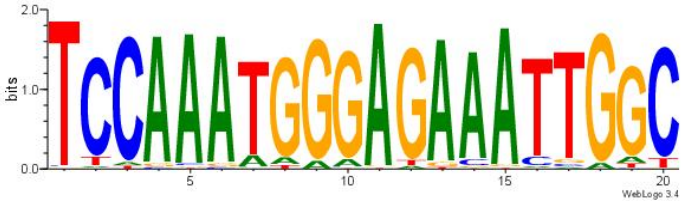

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

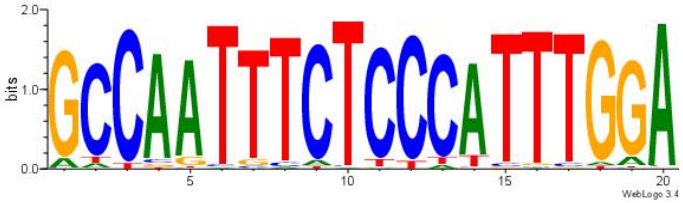

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0984378

Alignment:

```
GTAACACTCACCGCGARGGT
BCVTCTGTCACCCC------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

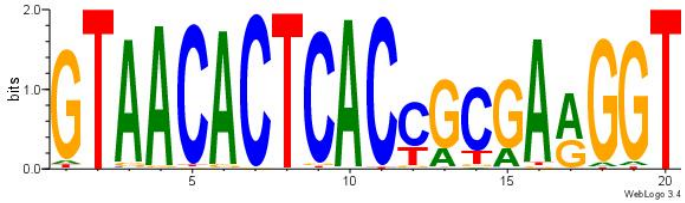

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

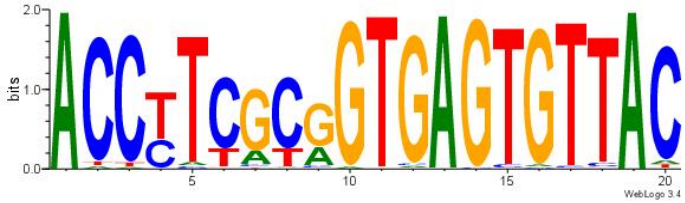

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0985709

Alignment:
ATCCATCCATCCATCCA
--BCVTCTGTCACCCC-

Original motif Consensus sequence: ATCCATCCATCCATCCA

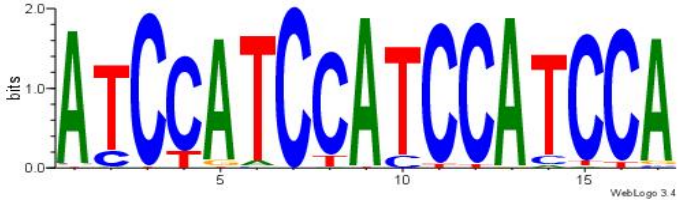

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0985791

Alignment:
AGTGAGAACATRYRRTRTTT
-GGGGTGACAGABGB-----

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

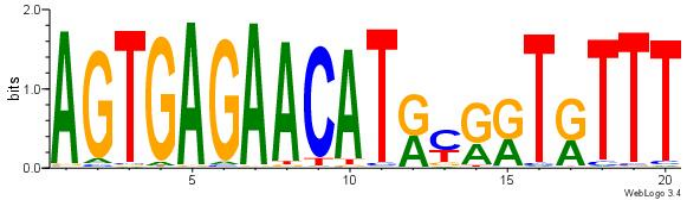

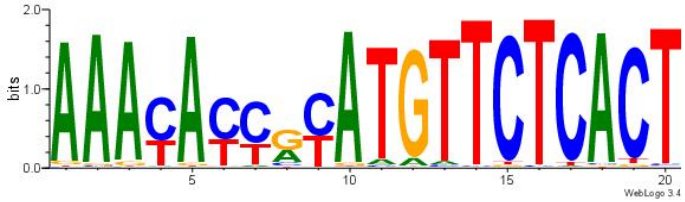

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0990626

Alignment:

```
ATCTCASAAATCACCACTA
---BCVTCTGTCACCCC--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

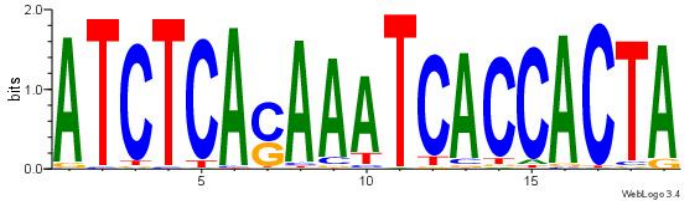

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

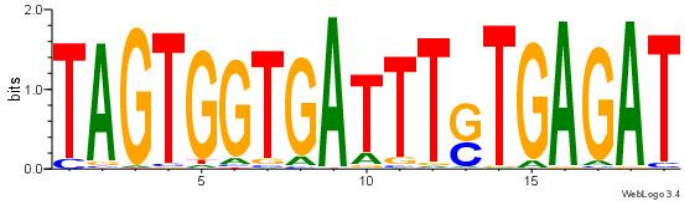

Dataset #:	1

Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0998108

Alignment:

```
GCTCACTGCAASCTC
-BCVTCTGTCACCCC
```

Original motif Consensus sequence: GCTCACTGCAASCTC

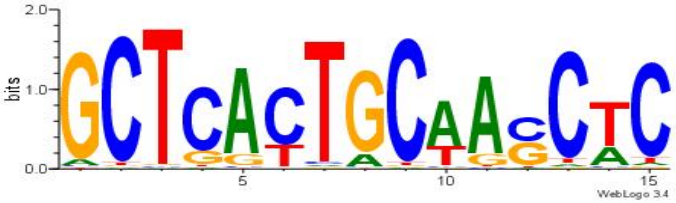

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

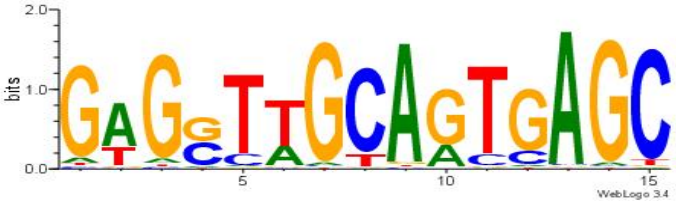

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0998515

Alignment:
GGCATCACGGATCCTACCAA
GGGGTGACAGABGB------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

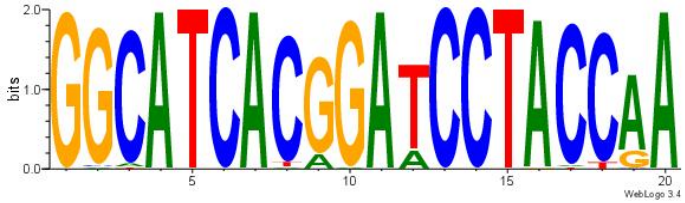

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

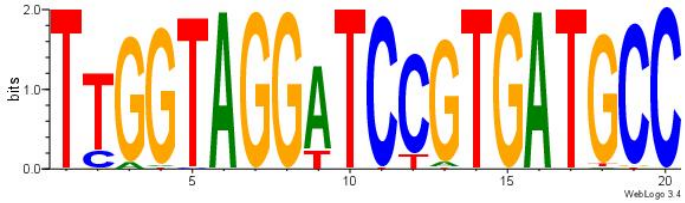

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.100068

Alignment:
TTMGTCCCAGAGGGGCACC
GGGGTGACAGABGB-----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

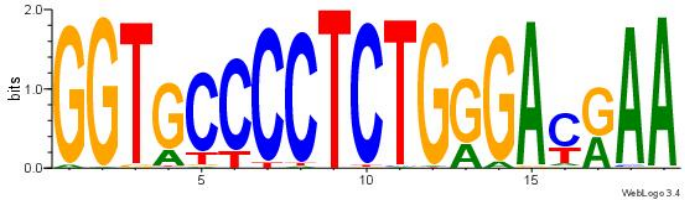

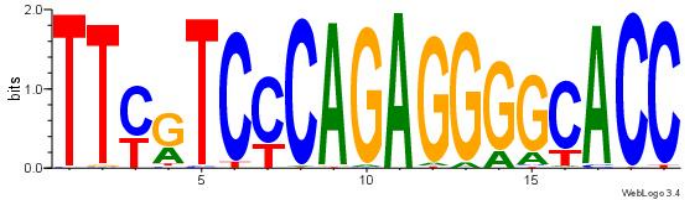

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.100219

Alignment:

```
ACATCMTCTGAAATCTAGG
---BCVTCTGTCACCCC--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

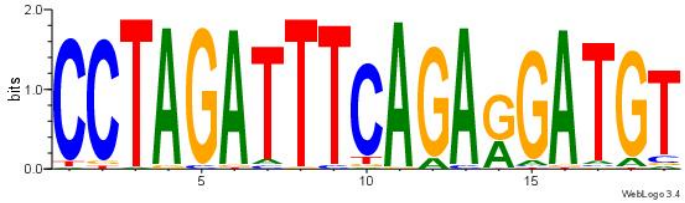

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

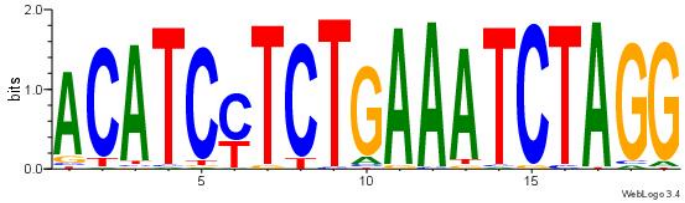

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.10073

Alignment:

```
CCCACGCCCACCCGGAACT
BCVTCTGTCACCCC-----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

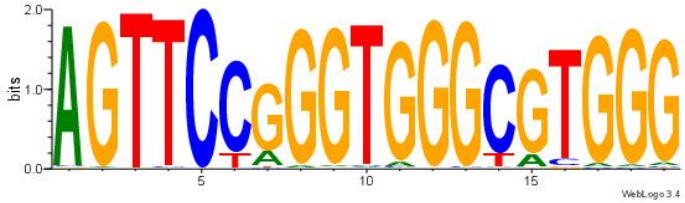

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

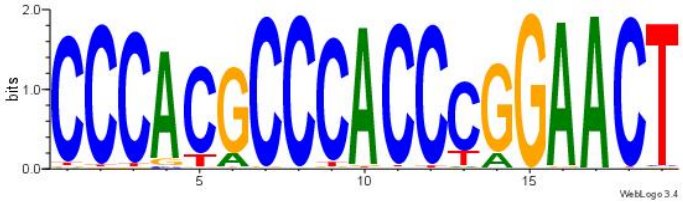

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.101154

Alignment:
AGGTTTGTTACATAGGTAWA
---GGGGTGACAGABGB---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

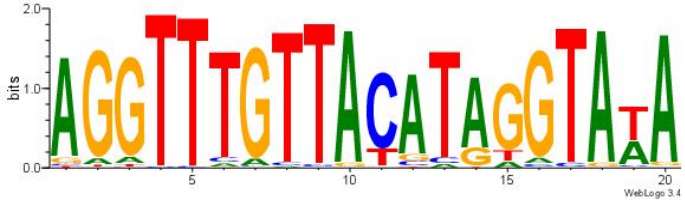

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

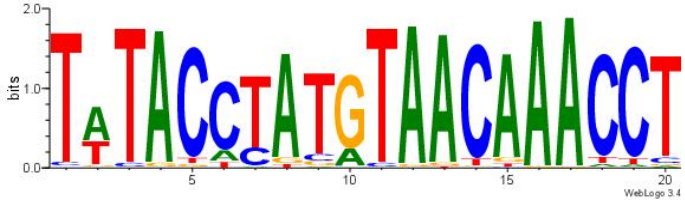

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.10174

Alignment:
GGGCTCCCACAGTGCAGCGG
GGGGTGACAGABGB------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

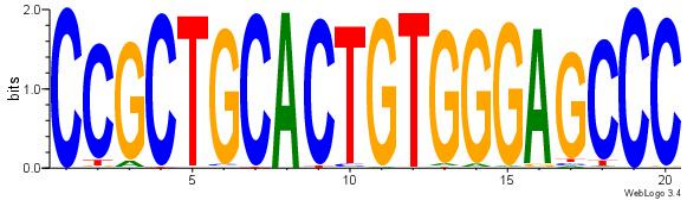

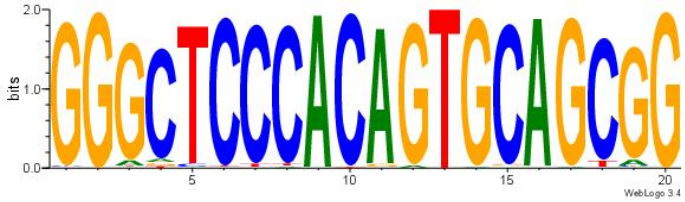

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.101955

Alignment:

```
GGGAGGGATATATTAGC
-GGGGTGACAGABGB--
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

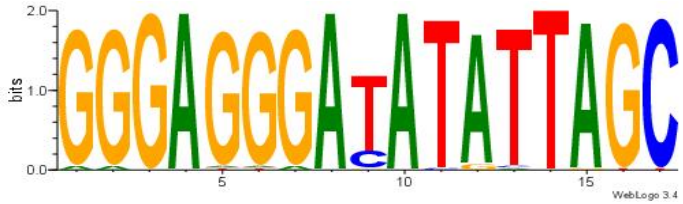

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

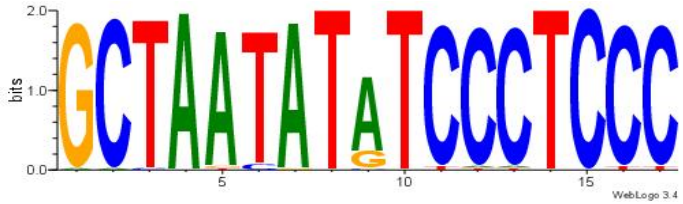

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.102323

Alignment:

```
GCCAGTCACAAAARGACAMA
-GGGGTGACAGABGB-----
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

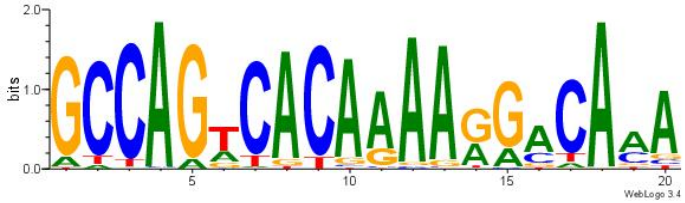

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

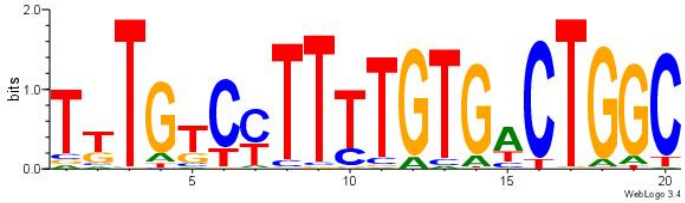

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.102393

Alignment:
CTTCGCTGACTCTCTTT
-BCVTCTGTCACCCC--

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

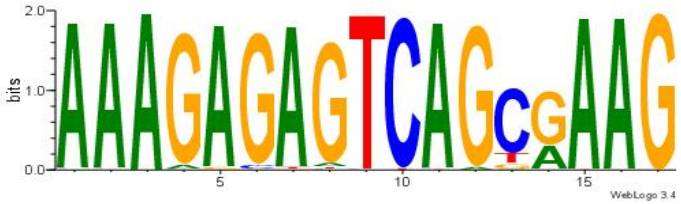

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

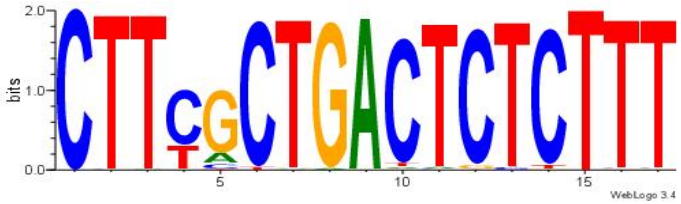

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.102415

Alignment:
GTKTMTATMTACCACATTTT
----BCVTCTGTCACCCC--

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

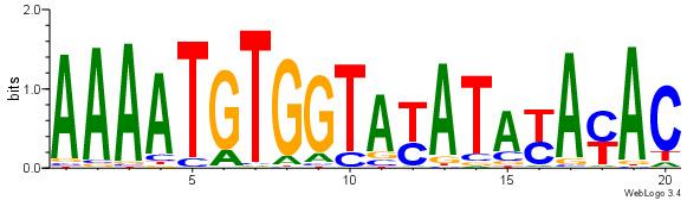

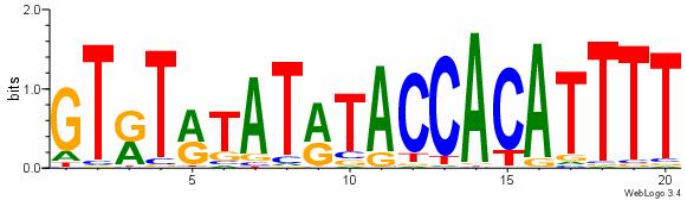

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.102755

Alignment:

```
CCCTGCTAGAACCTCCAA
-BCVTCTGTCACCCC---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

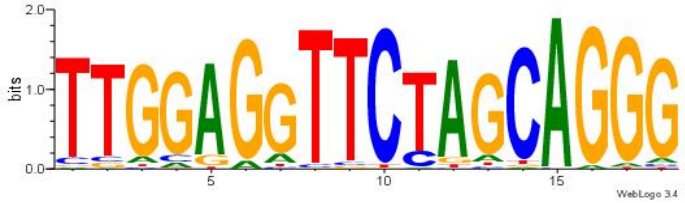

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.103323

Alignment:

```
GCCGTTTKTTAAGCCCGTY
-BCVTCTGTCACCCC----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

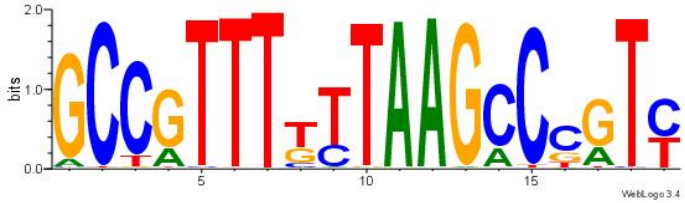

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

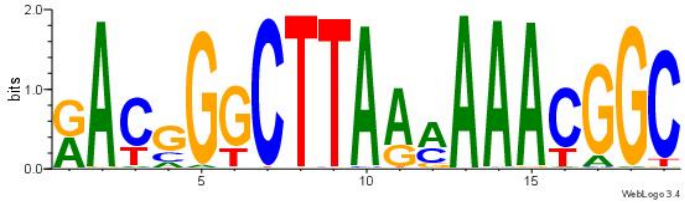

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.103373

Alignment:
GGRCKCACWGGAGC
GGGGTGACAGABGB

Original motif Consensus sequence: GCTCCWGTGYGKCC

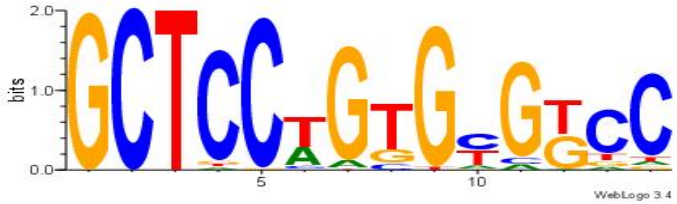

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.104708

Alignment:
GTGGCCCTCTTCTCACAGCT
-----BCVTCTGTCACCCC-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

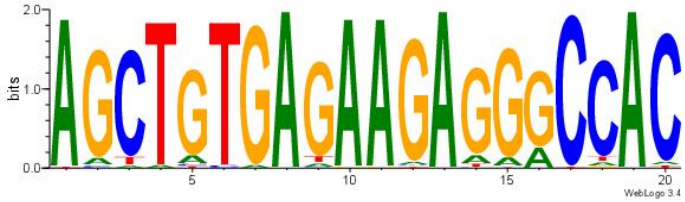

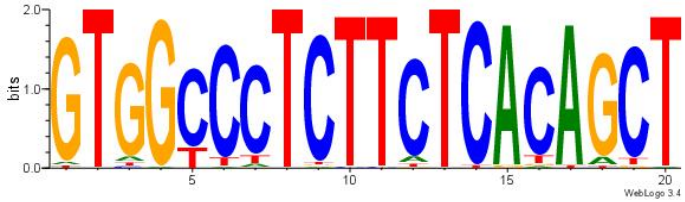

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.104854

Alignment:

```
GGTGGGAGAAATACCT
--GGGGTGACAGABGB
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

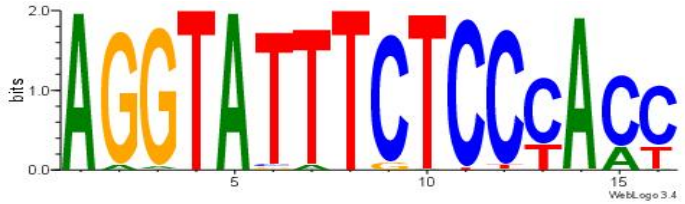

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

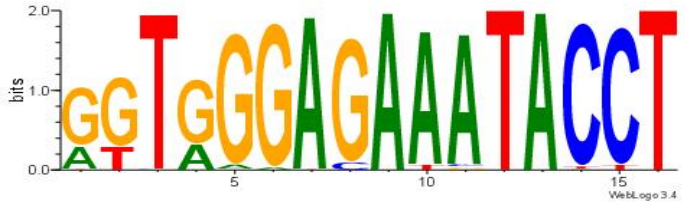

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.104876

Alignment:

```
TGHCCTGCKCCCACTGTCT
BCVTCTGTCACCCC-----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

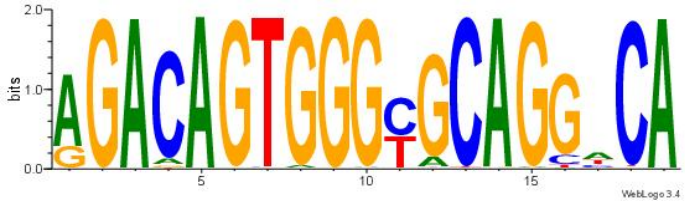

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

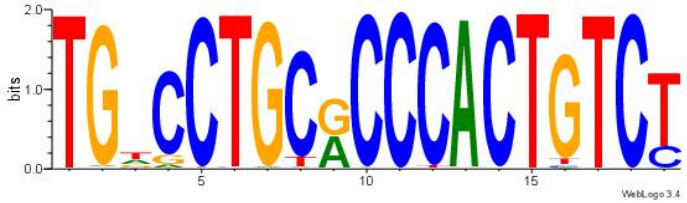

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.10521

Alignment:
CAGCTACTCKTATACCCTTG
----BCVTCTGTCACCCC--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

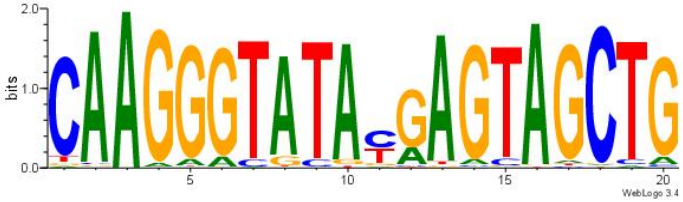

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

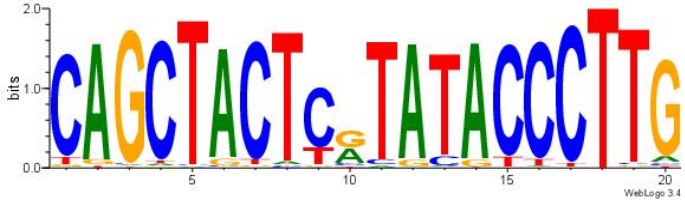

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.105247

Alignment:
AGGCTGTTTTACAGTTAAC
----GGGGTGACAGABGB-

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

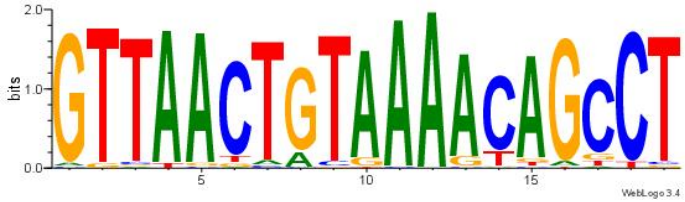

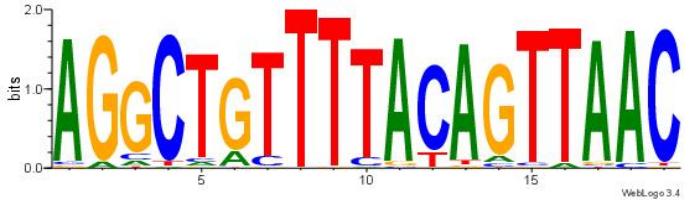

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.105868

Alignment:

```
GAATCCTGGGACAGCCTGT
---BCVTCTGTCACCCC--
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

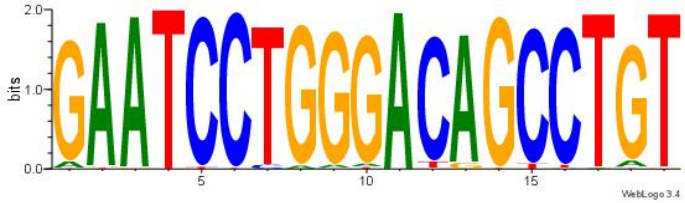

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

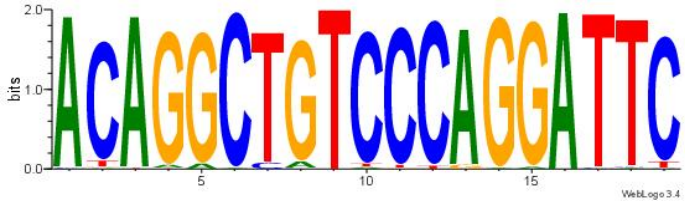

Dataset #: 1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.105962

Alignment:

```
GCAWSTGCAAAGGCCCT
BCVTCTGTCACCCC---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

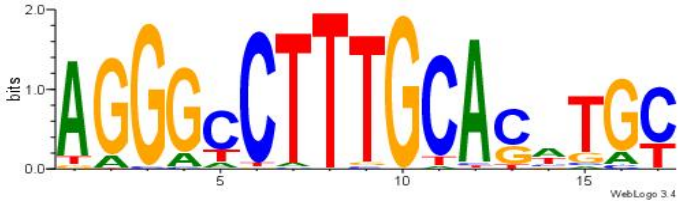

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

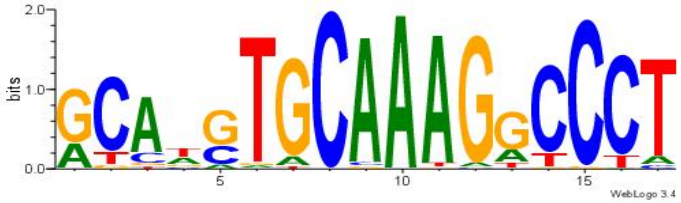

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14

Similarity score: 0.106081

Alignment:
GGAGCCGGCTCCCTCAGCTT
BCVTCTGTCACCCC------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

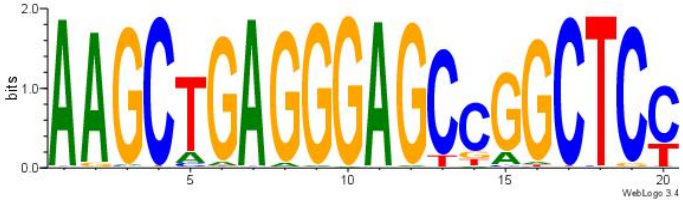

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

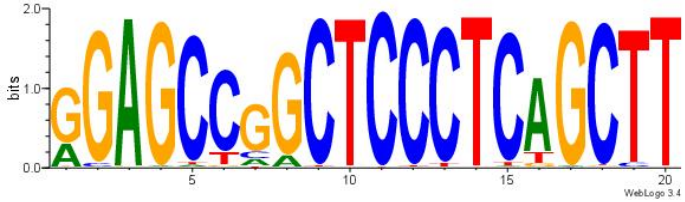

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.106623

Alignment:
ATTGGTGTATTTACAATCCC
------BCVTCTGTCACCCC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

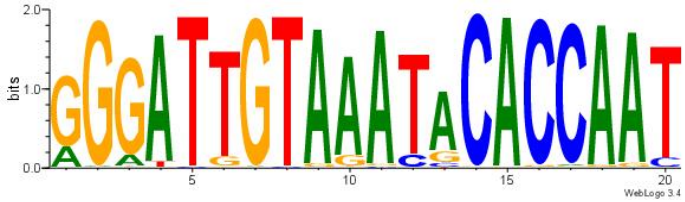

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.10712

Alignment:

```
VMATTTAKTGAGCACCTACT
-BCVTCTGTCACCCC-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

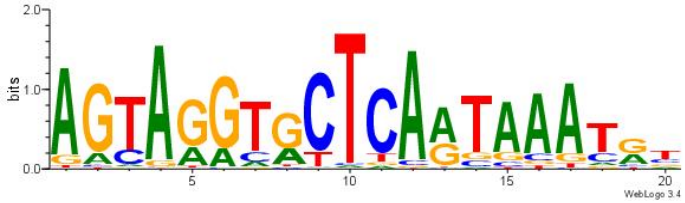

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

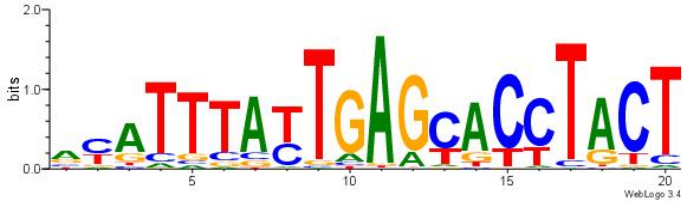

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.107196

Alignment:

```
AAGCAGGGCGAGGCATTGCC
----GGGGTGACAGABGB--
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

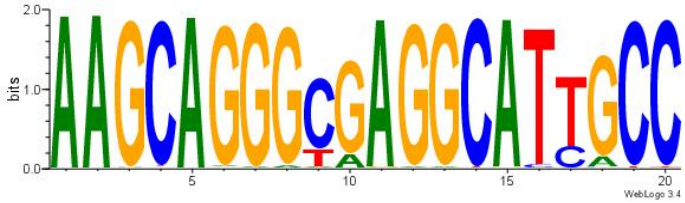

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

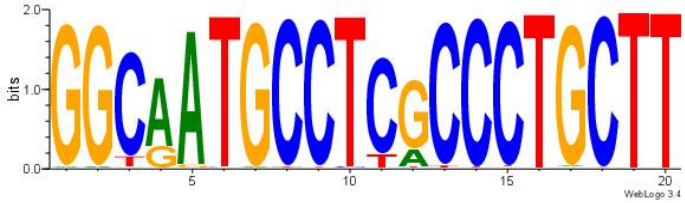

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.107475

Alignment:
GACTGGCAGGCAGCTCCACC
---GGGGTGACAGABGB---

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

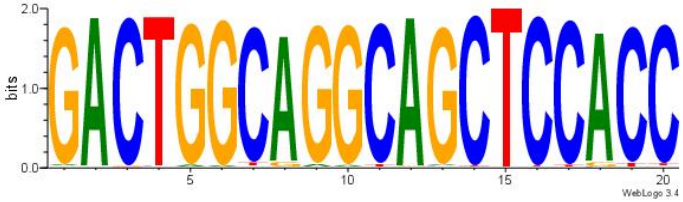

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

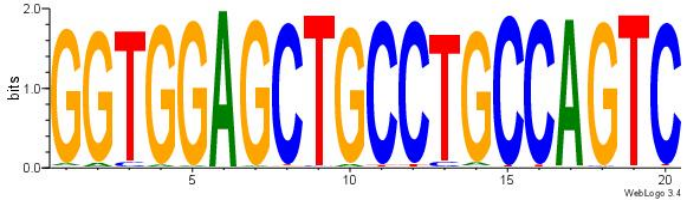

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.107476

Alignment:
GCACTCTGTMTCTAGCT
-BCVTCTGTCACCCC--

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

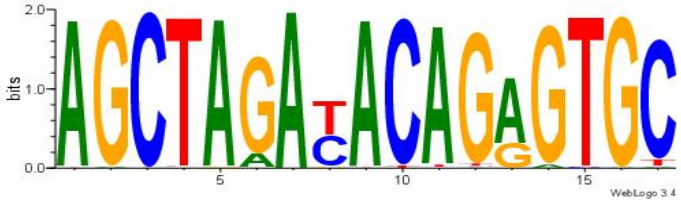

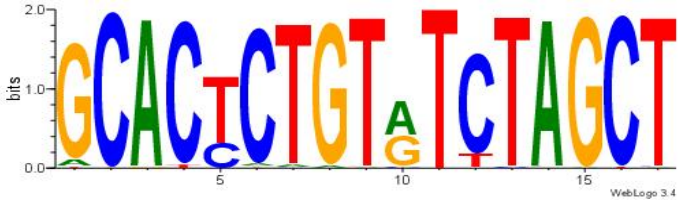

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.107491

Alignment:

```
AATTAAAAGACACAGACTG
-----GGGGTGACAGABGB
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

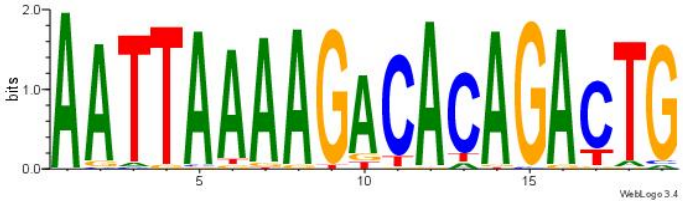

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

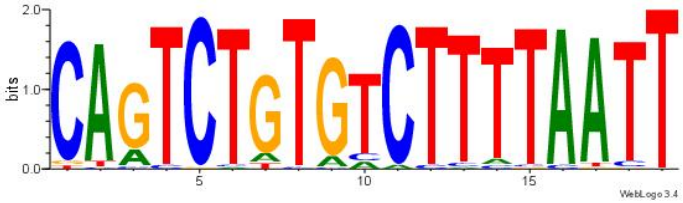

Dataset #: 1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.108346

Alignment:

```
GCGMGCGGGAACCGGGGCT
-BCVTCTGTCACCCC----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

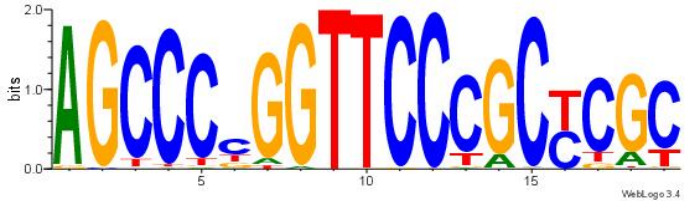

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

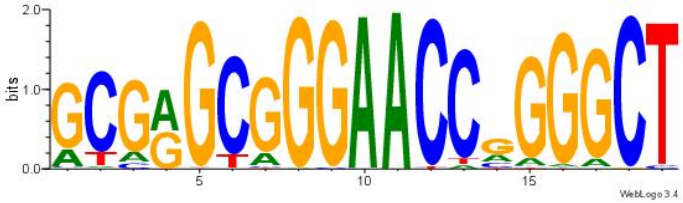

Dataset #: 1 Motif ID: 2 Motif name: Motif 2

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

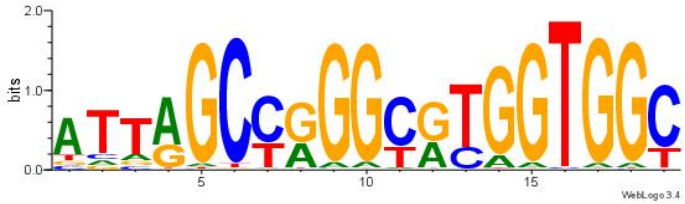

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

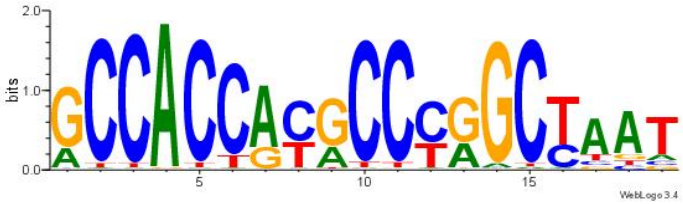

Best Matches for Motif ID 2 (Highest to Lowest)

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0936692

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-ATTAGCYRGGCRTGGTGGC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

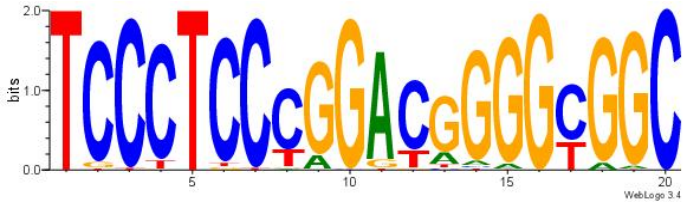

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

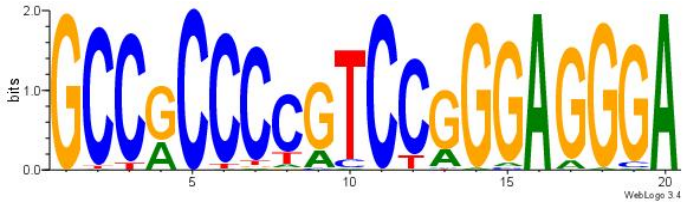

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.109865

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-GCCACCAMGCCMKGCTAAT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

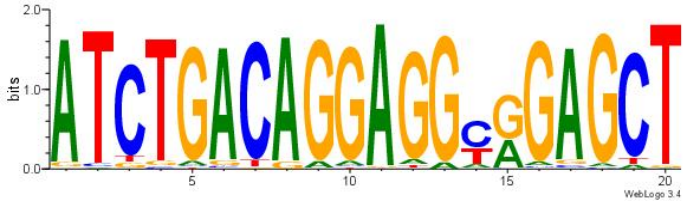

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

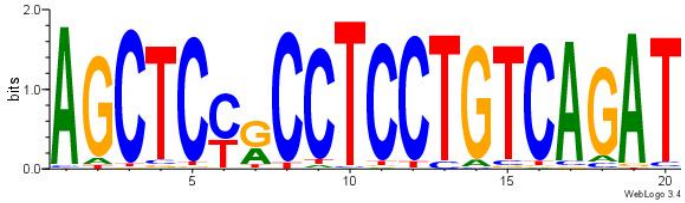

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112387

Alignment:

```
AGAAATCGAGCRCAGCGCCG
ATTAGCYRGGCRTGGTGGC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

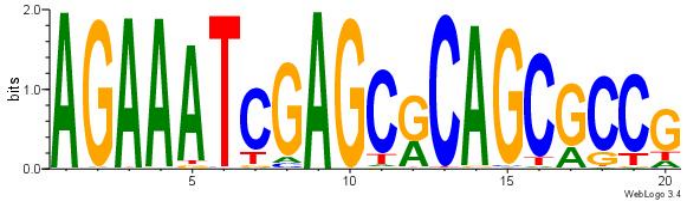

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

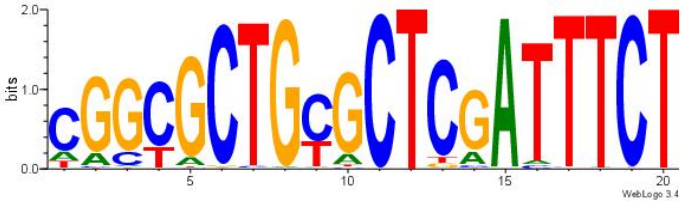

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.116369

Alignment:

GCCAGGCAGAGRGKCTCCT

GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

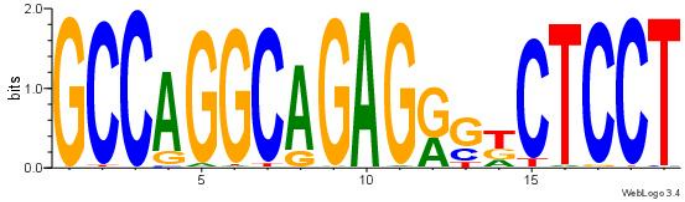

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

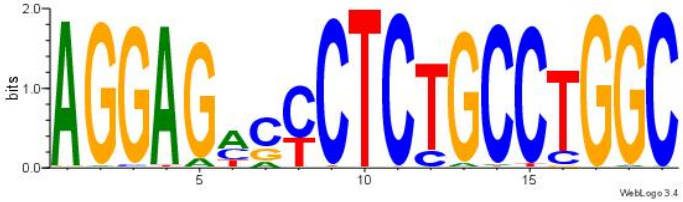

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116437

Alignment:
CTTGGGTGGTCGATGGGAC
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

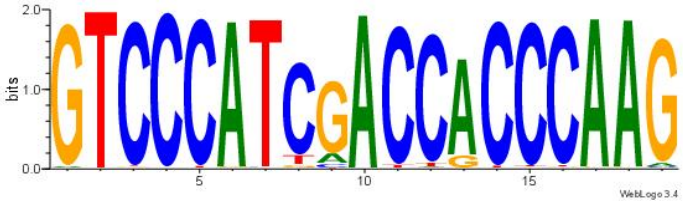

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

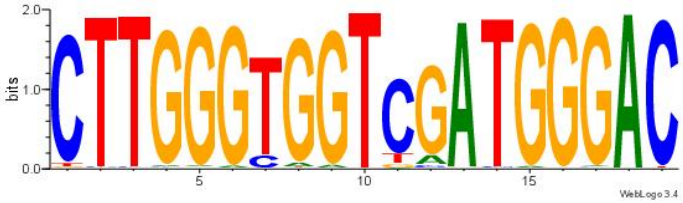

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.11693

Alignment:
CCCACGCCCACCCGGAACT
GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

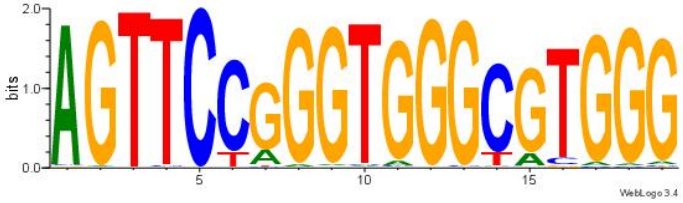

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

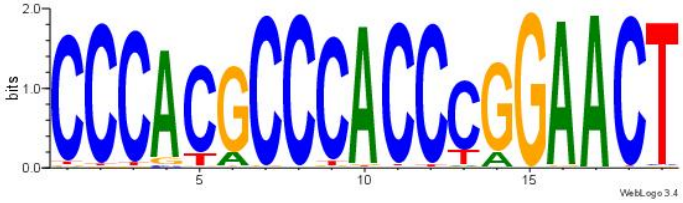

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.118472

Alignment:
CCCAAATCTCATSTTGAAT
GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

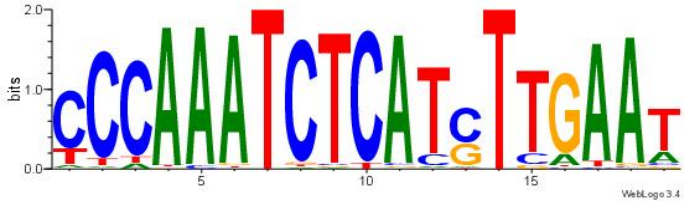

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

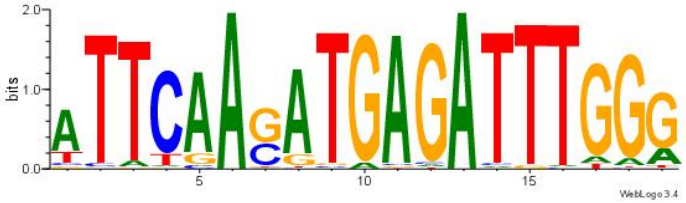

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.118763

Alignment:

```
KKCACCTTGATCTTGGACTT
GCCACCAMGCCMKGCTAAT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

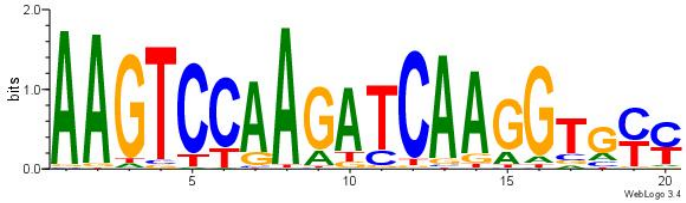

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

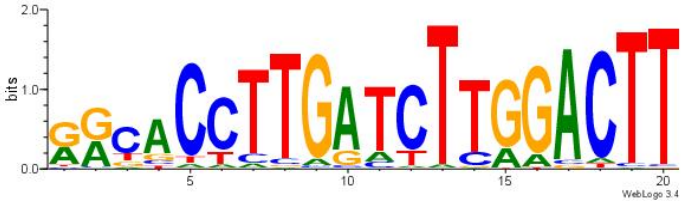

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.119017

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GCCACCAMGCCMKGCTAAT-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

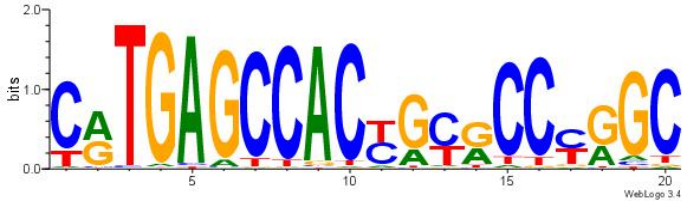

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

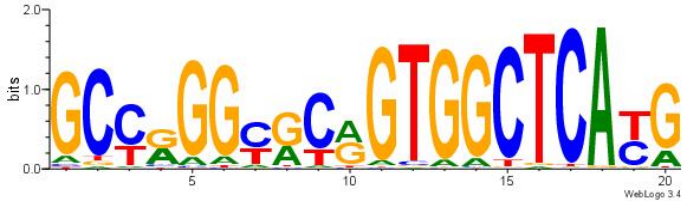

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.119157

Alignment:
AWTKKTGGTTKCCAGKGGCT
ATTAGCYRGGCRTGGTGGC-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

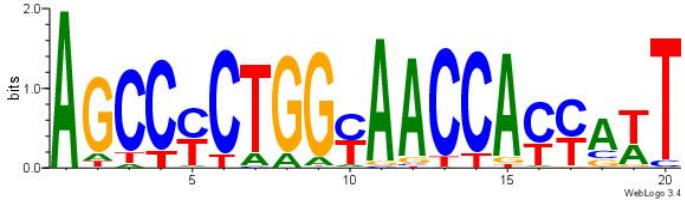

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

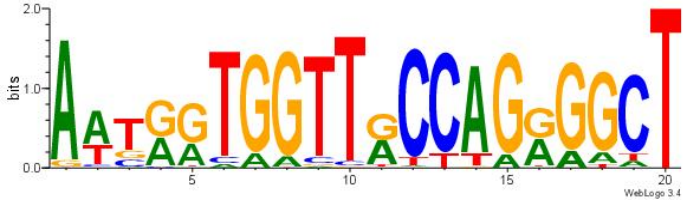

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.119238

Alignment:
ATACAATGGGGGTACAGRC
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

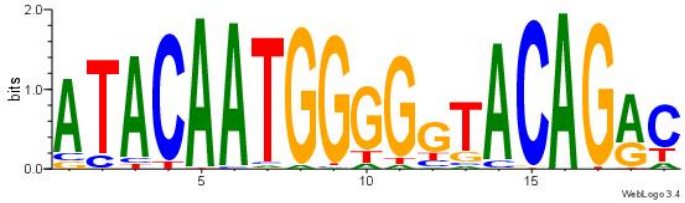

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

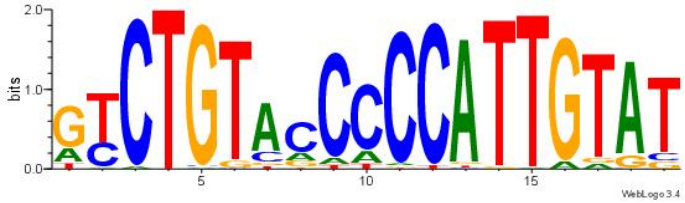

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.120283

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
ATTAGCYRGGCRTGGTGGC-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

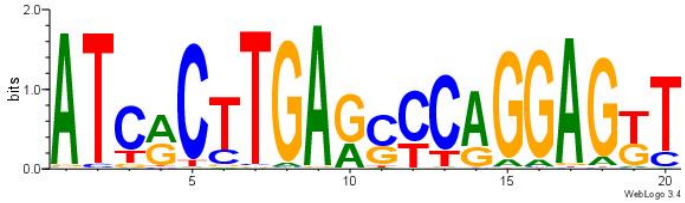

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

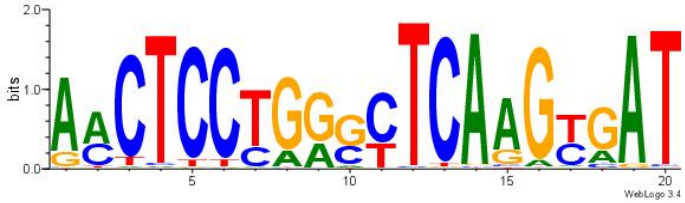

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.120439

Alignment:
AACAACASACACTGGGGCCT
GCCACCAMGCCMKGCTAAT-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

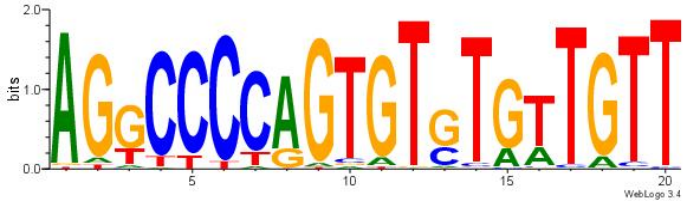

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

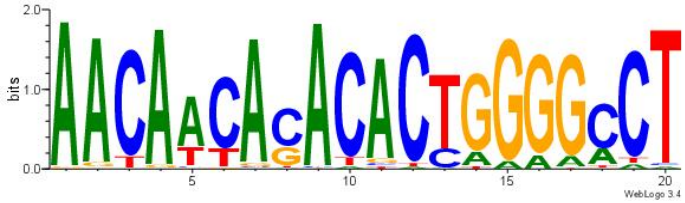

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.120442

Alignment:
CATTCTGGGGTCTGGAGGAY
ATTAGCYRGGCRTGGTGGC-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

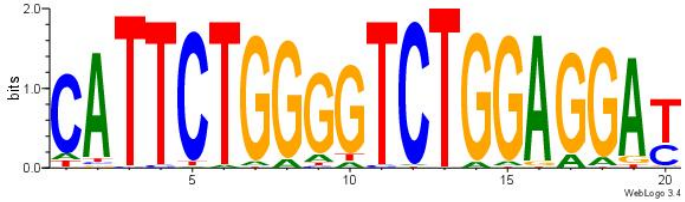

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

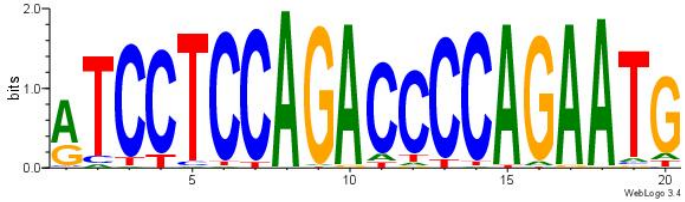

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.122955

Alignment:
ATGATCCAGCAATYCCACTH
GCCACCAMGCCMKGCTAAT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

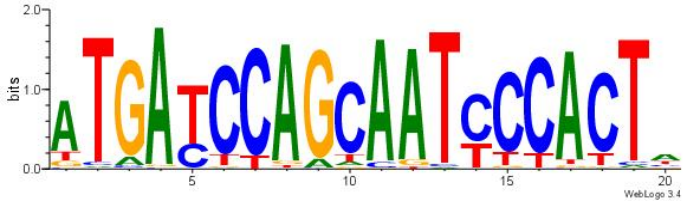

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

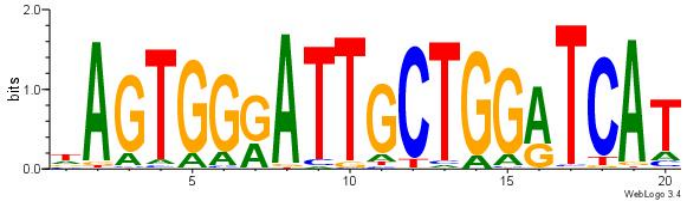

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.123086

Alignment:

```
CGTCGCTCACGCTGGGAGCT
ATTAGCYRGGCRTGGTGGC-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

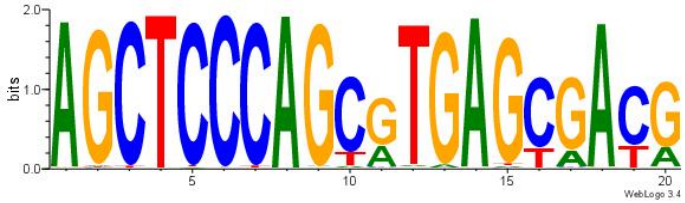

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

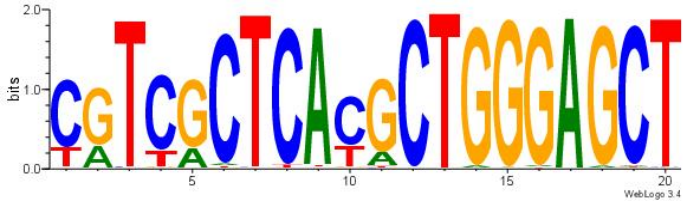

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.126353

Alignment:

```
ATTGATMKCCAGGGTTGATT
ATTAGCYRGGCRTGGTGGC-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

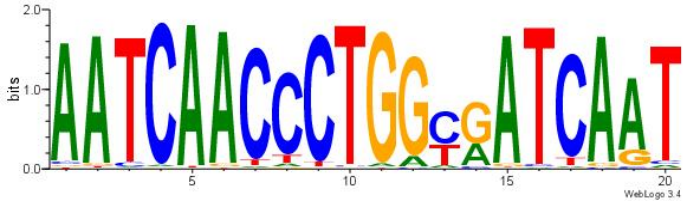

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

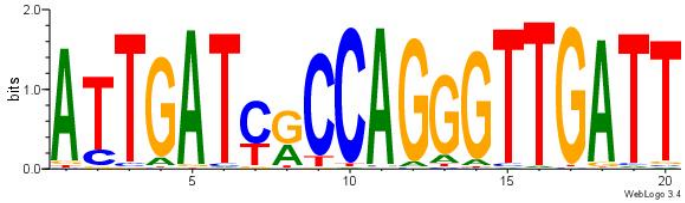

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.126988

Alignment:
GGTGCCCCTCTGGGACRAA
GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

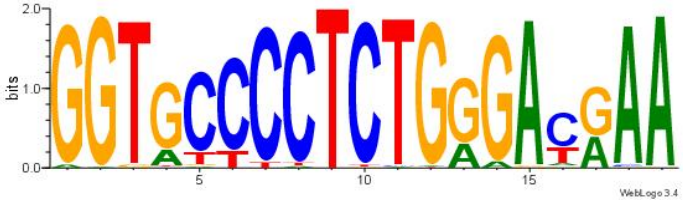

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

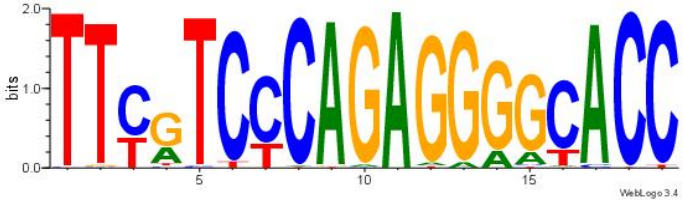

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.127951

Alignment:
TCKMGCCACTGCACTCCAGC
-GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

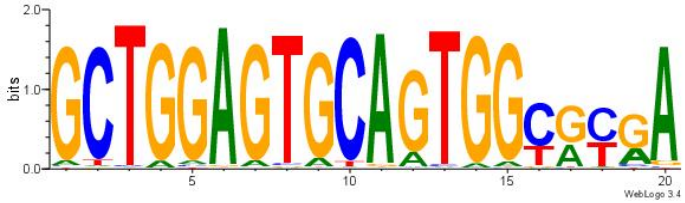

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

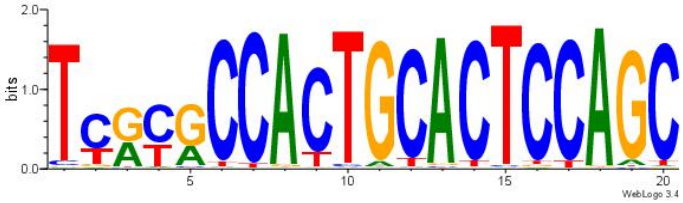

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128209

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
GCCACCAMGCCMKGCTAAT-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

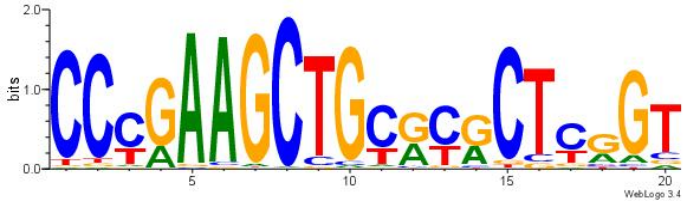

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

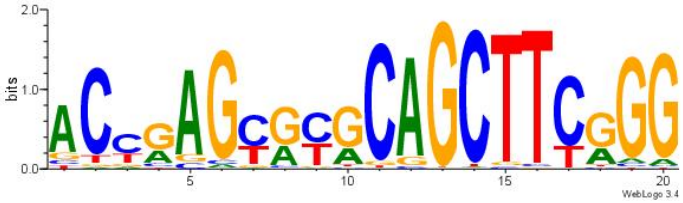

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12843

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GCCACCAMGCCMKGCTAAT-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

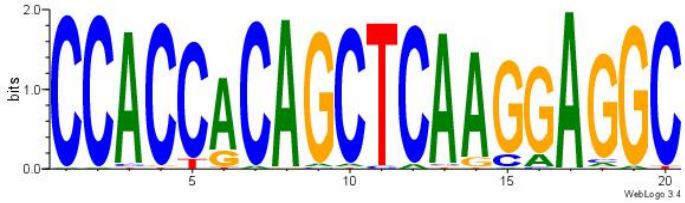

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

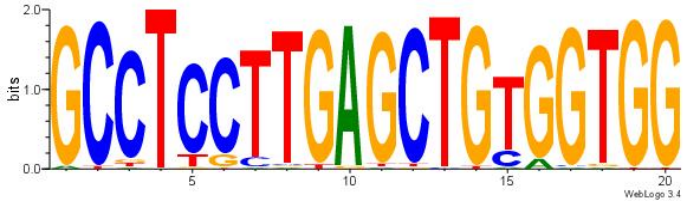

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.128588

Alignment:
GCTGGCCCGCAAGCGCCGCG
ATTAGCYRGGCRTGGTGGC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

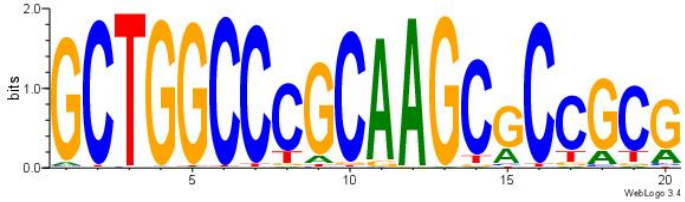

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

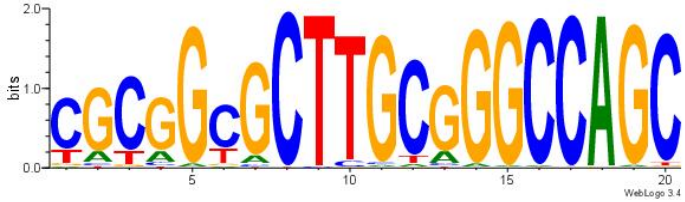

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.129611

Alignment:
TYTGTCMTTTTGTGACTGGC
ATTAGCYRGGCRTGGTGGC-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

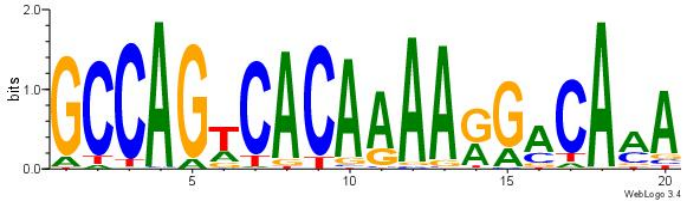

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

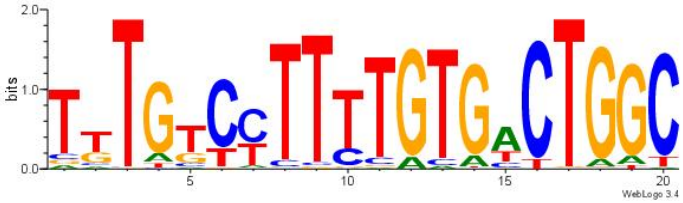

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129901

Alignment:

```
GCGMGCGGGAACCGGGGCT
ATTAGCYRGGCRTGGTGGC
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

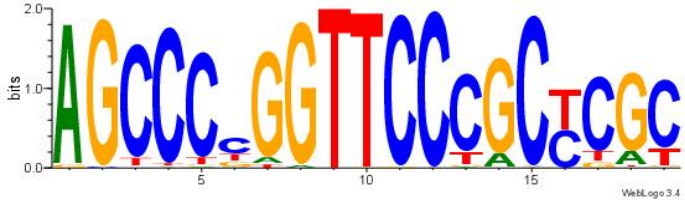

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

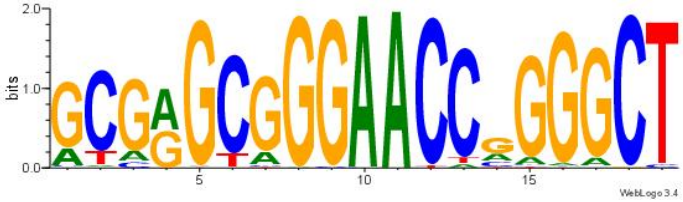

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129923

Alignment:

ATGGCCTATGACYGSTTTG

ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

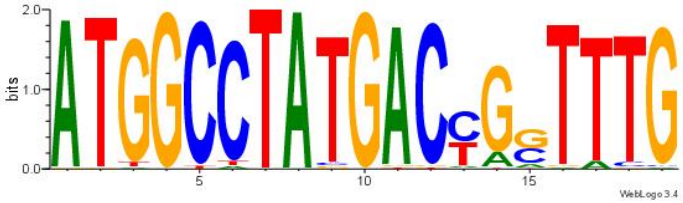

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

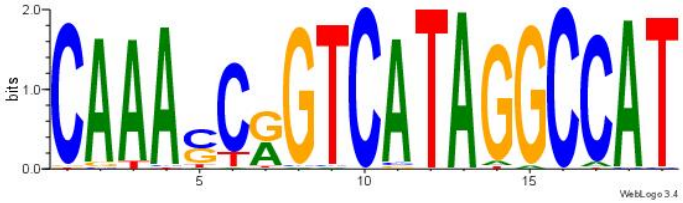

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.130264

Alignment:
AGATGCCAGCCAGAGCTCT
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

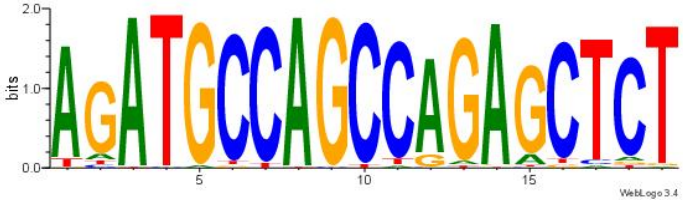

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

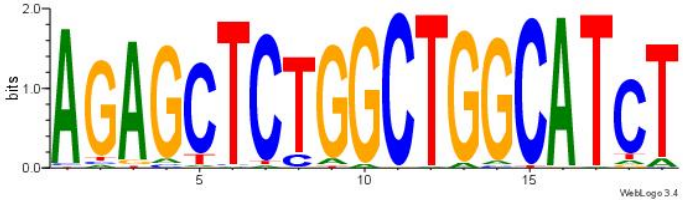

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.130373

Alignment:
TGTGTGTGTGTKTGTGTGT
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: ACACACAYACACACACACA

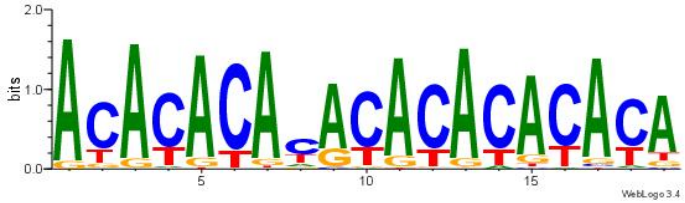

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

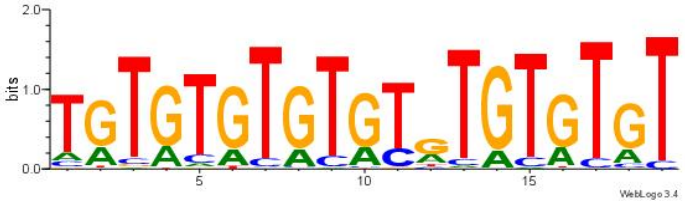

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.130407

Alignment:

```
GCCGGGRAGAGGCGCTCCT
GCCACCAMGCCMKGCTAAT
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

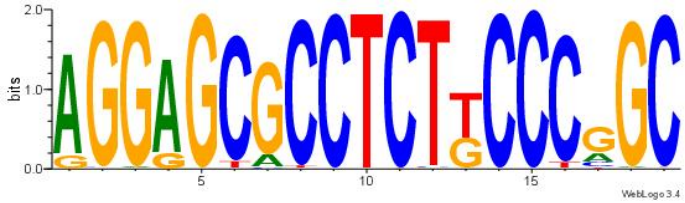

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

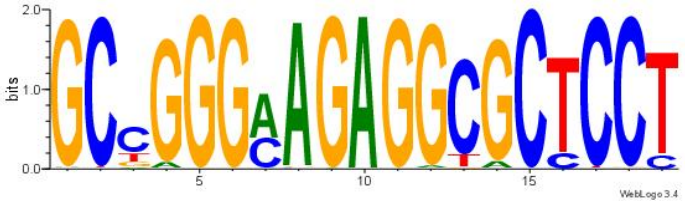

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130827

Alignment:

```
GTGCCAGGCACTGTKCTARG
-GCCACCAMGCCMKGCTAAT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

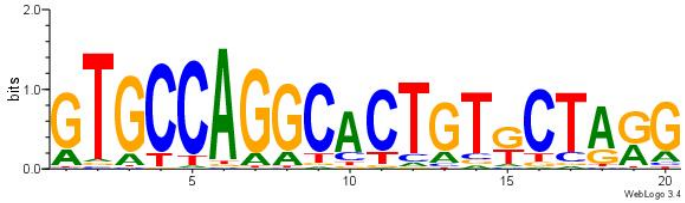

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

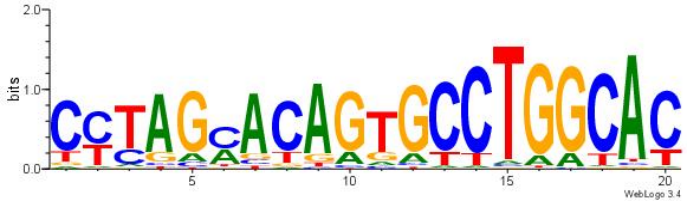

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.131224

Alignment:
AGTGAGAACATRYRRTRTTT
ATTAGCYRGGCRTGGTGGC-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

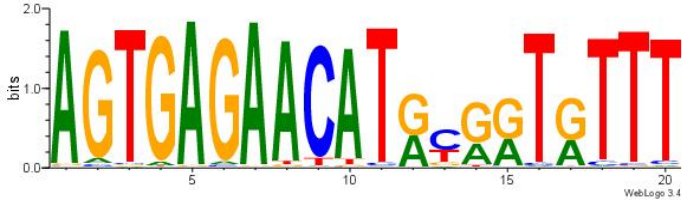

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

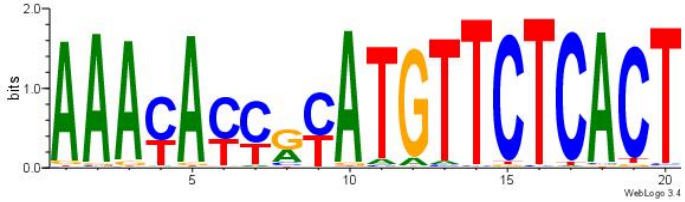

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.131697

Alignment:
GCTTAGCACCYGGGCCAGC
GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

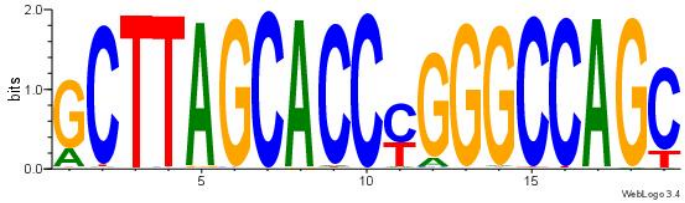

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

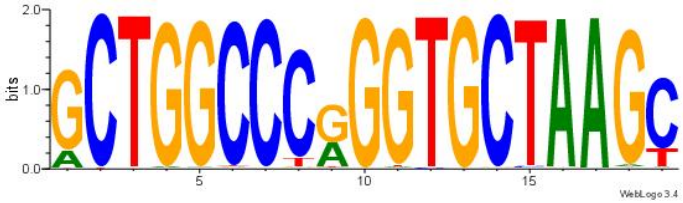

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131835

Alignment:

```
CTCATTTAATCCTCACAAC
GCCACCAMGCCMKGCTAAT
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

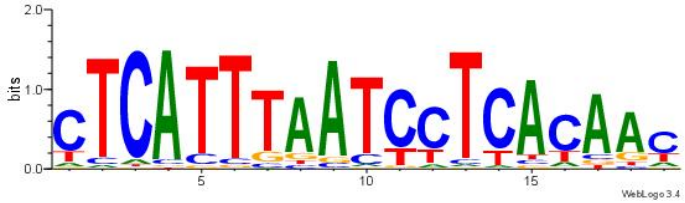

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

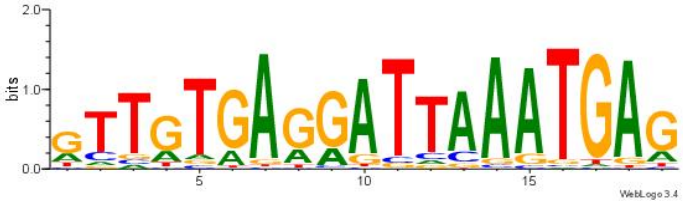

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.13264

Alignment:

```
CCTGCCATTGCYSAGGCTTG
GCCACCAMGCCMKGCTAAT-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

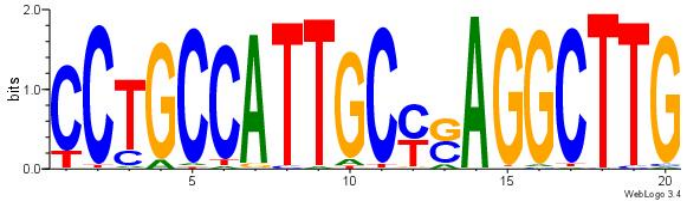

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

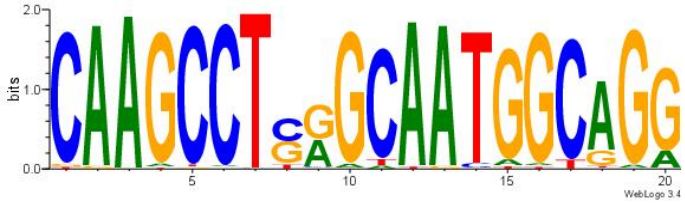

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.133579

Alignment:
ACAGGCTGTCCCAGGATTC
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

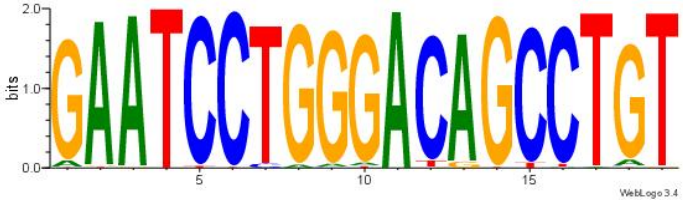

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

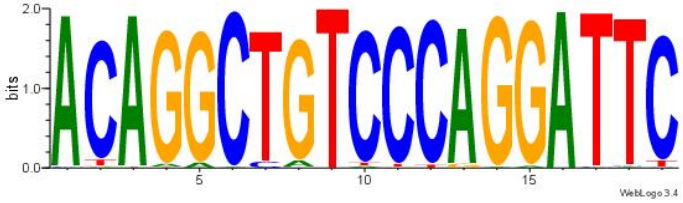

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.134679

Alignment:
MCCYGGCWSMGASGSTCCT
GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

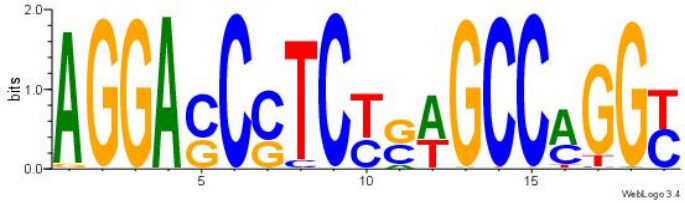

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

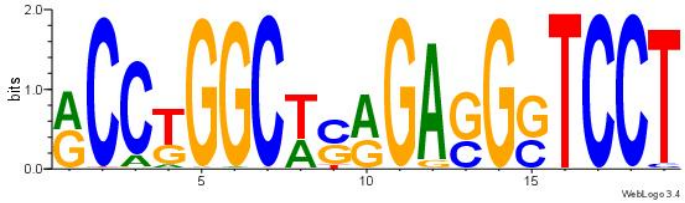

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134898

Alignment:

```
AATGAKATCATGTCYTTTGC
-ATTAGCYRGGCRTGGTGGC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

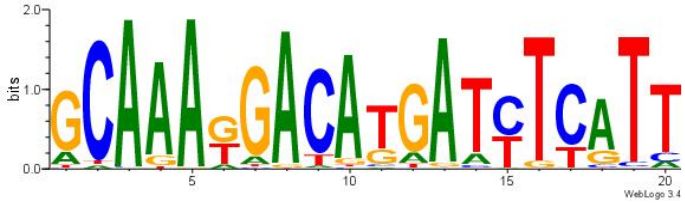

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

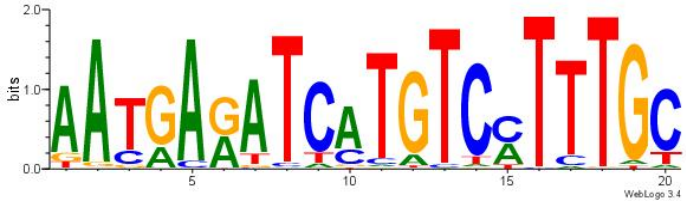

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135097

Alignment:
ACATCCCAGACGATGGGCG
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

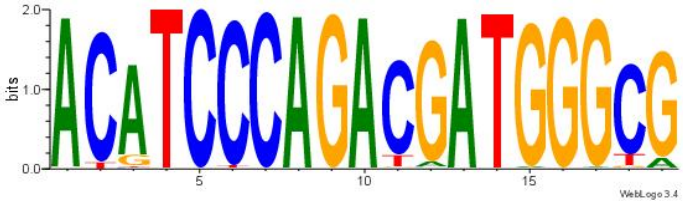

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

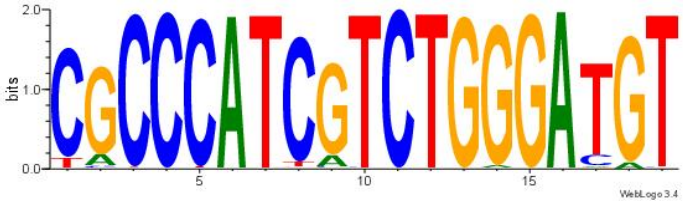

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.135273

Alignment:
GTCTCWAMAAAAAAWAMAAA
GCCACCAMGCCMKGCTAAT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

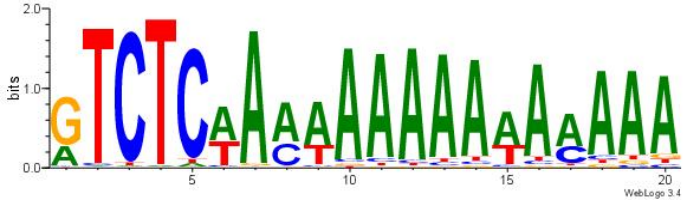

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

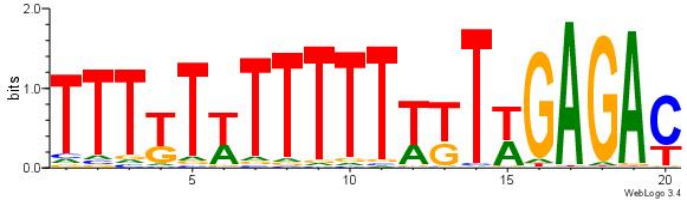

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.13535

Alignment:
TCCAAATGGGAGAAATTGGC
-ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

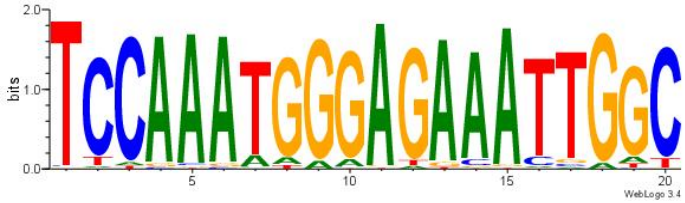

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

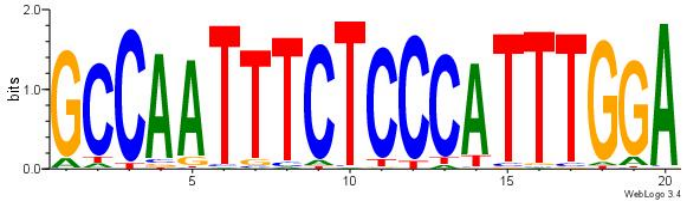

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135633

Alignment:

```
GCACATGTAYCCYAGAACTT
-GCCACCAMGCCMKGCTAAT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

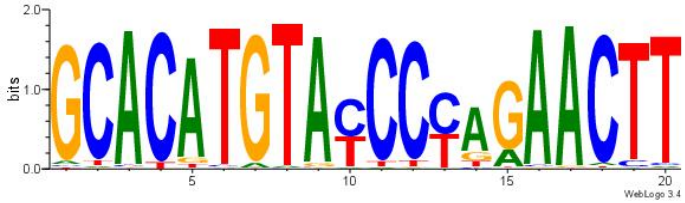

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

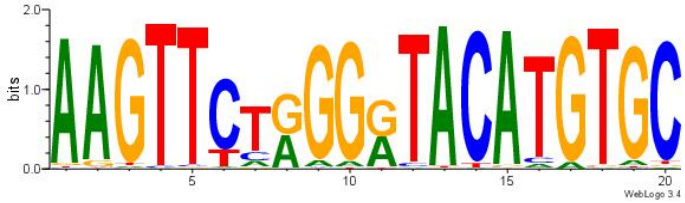

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13642

Alignment:
GTAGACKGGAGCTGTTCCT
ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

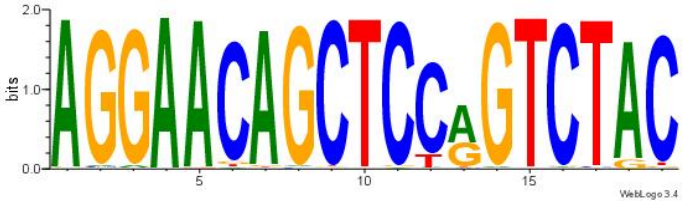

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

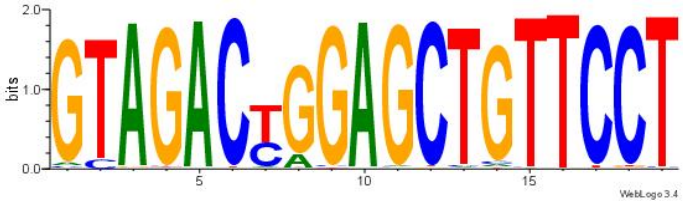

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.137255

Alignment:
TTGTCCCACTGGAAGGTCTT
-GCCACCAMGCCMKGCTAAT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

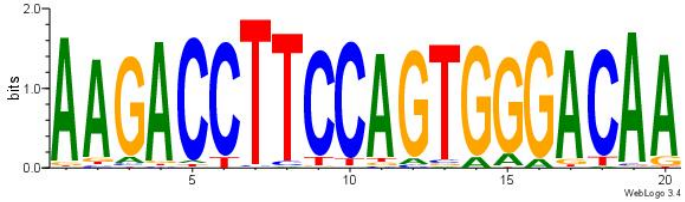

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

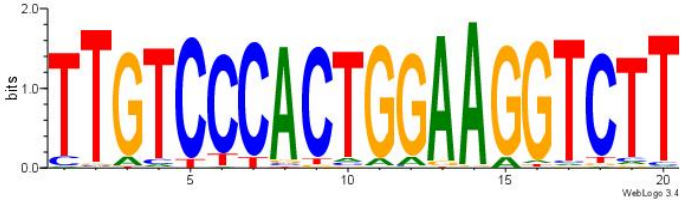

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.137339

Alignment:
CTGGGTCCCCCAGCAGTGCC
-ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

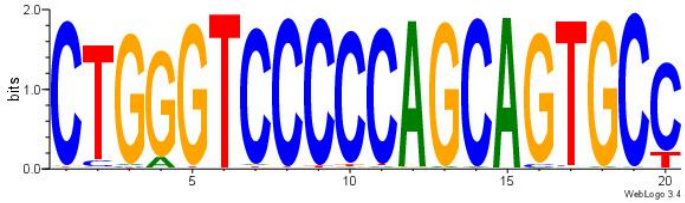

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

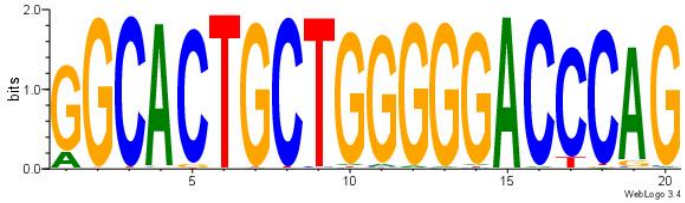

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.137788

Alignment:

```
GCTGTGTGACCTTGGGCAAG
GCCACCAMGCCMKGCTAAT-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

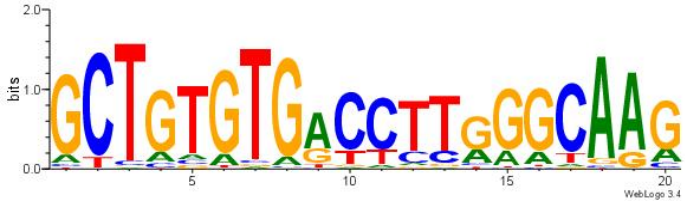

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

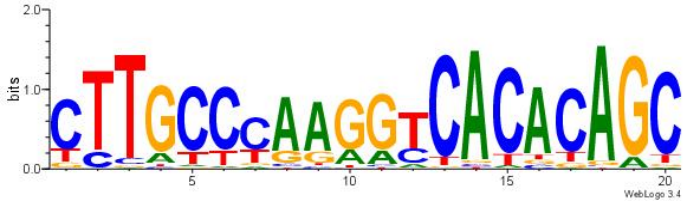

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.137844

Alignment:

```
AAATTACCCAGTCTCAGGTA
-ATTAGCYRGGCRTGGTGGC
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

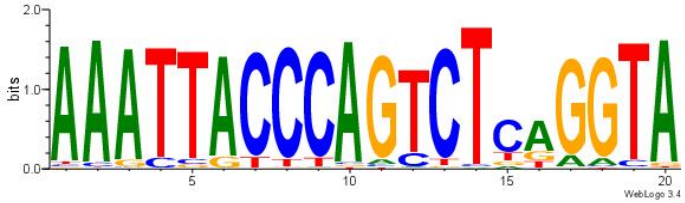

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

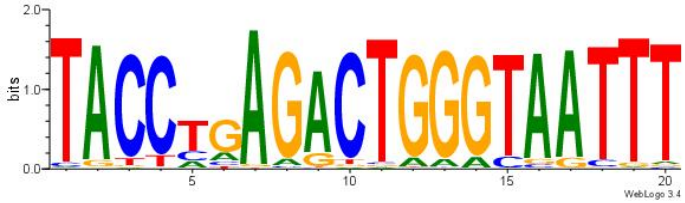

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.13788

Alignment:
GGTGGAGCTGCCTGCCAGTC
GCCACCAMGCCMKGCTAAT-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

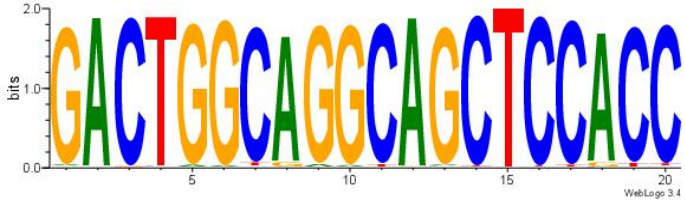

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

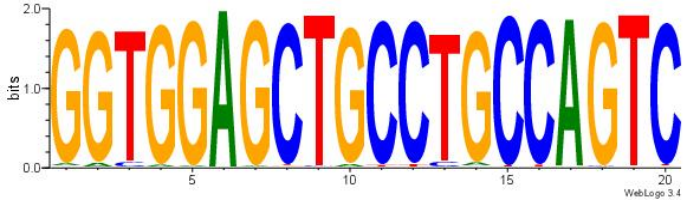

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137889

Alignment:
CTGGGCTCCTGAGTCTGGTG
ATTAGCYRGGCRTGGTGGC-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

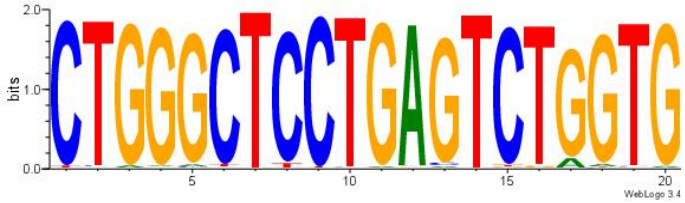

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

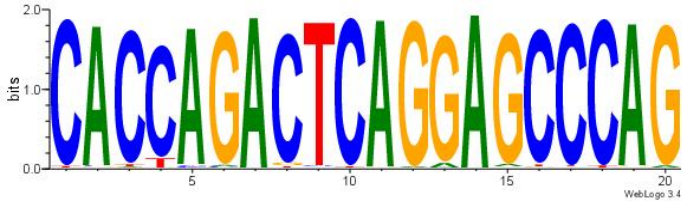

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138241

Alignment:

```
GTAACACTCACCGCGARGGT
-ATTAGCYRGGCRTGGTGGC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

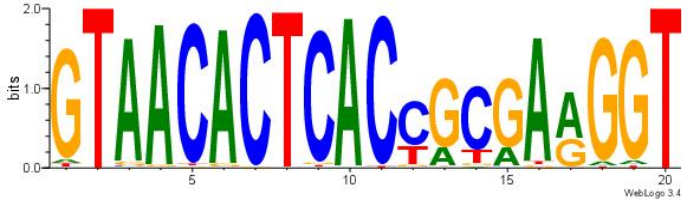

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

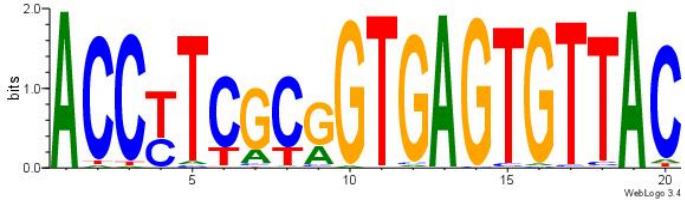

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138804

Alignment:
GAAHCAACCKAAKTGTCCAT
GCCACCAMGCCMKGCTAAT-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

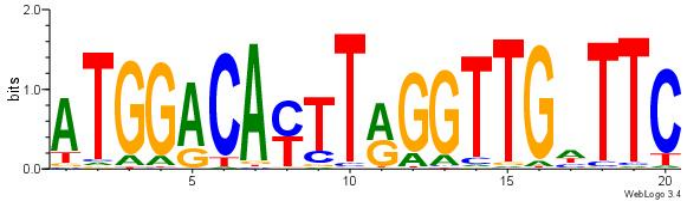

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

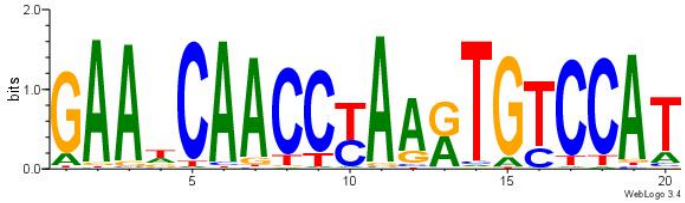

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.138879

Alignment:
AGTGACCCGATTTTCCAGGT
-ATTAGCYRGGCRTGGTGGC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

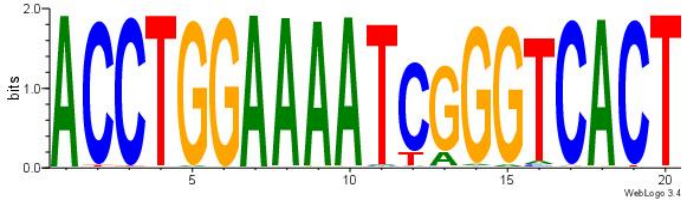

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

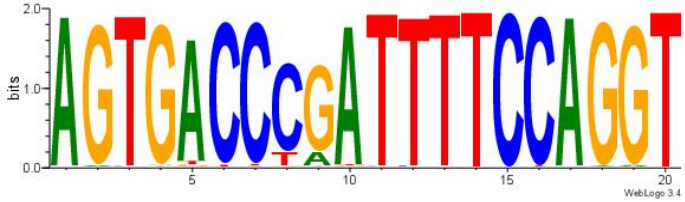

Dataset #: 1 Motif ID: 3 Motif name: Motif 3

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

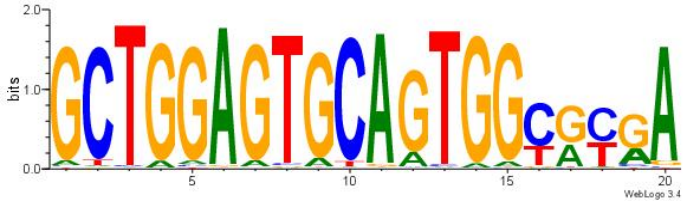

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

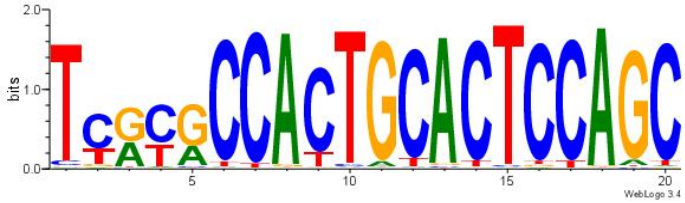

Best Matches for Motif ID 3 (Highest to Lowest)

Dataset #: 1
Motif ID: 350
Motif name: Motif 350

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.100707

Alignment:
TCTGGAGTGGACCTCCAGCA
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

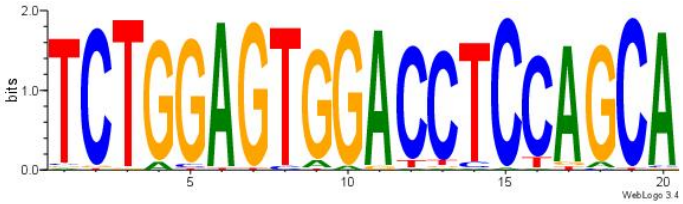

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

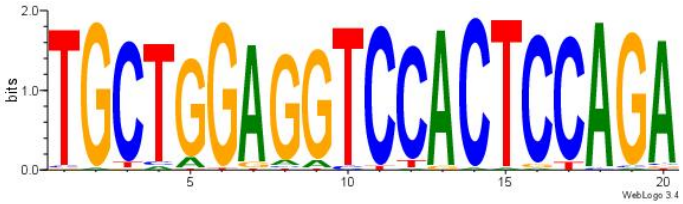

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113987

Alignment:
GCTGGCCCGCAAGCGCCGCG
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

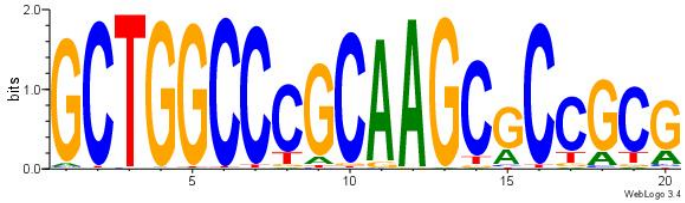

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

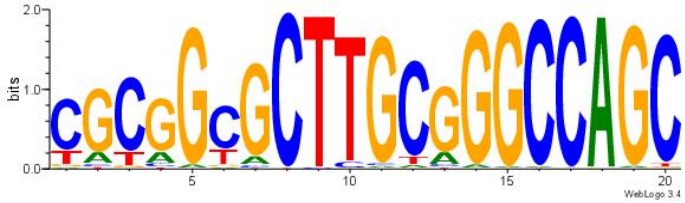

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116177

Alignment:
GGAGGTGTGGAGGGAGAGGC
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

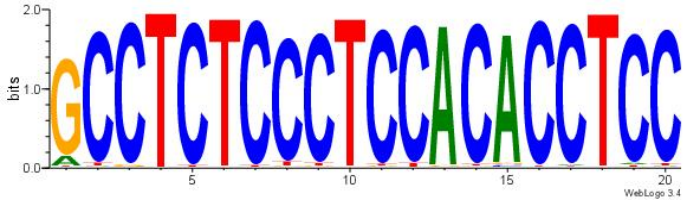

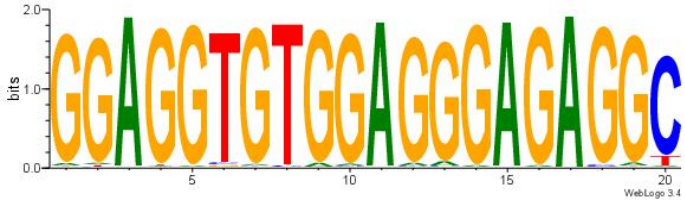

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.122582

Alignment:
TCTCTCTCTCTCTCTCTCTC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

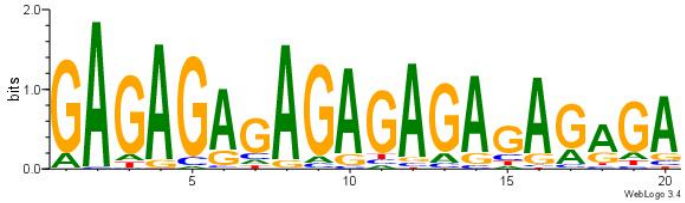

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

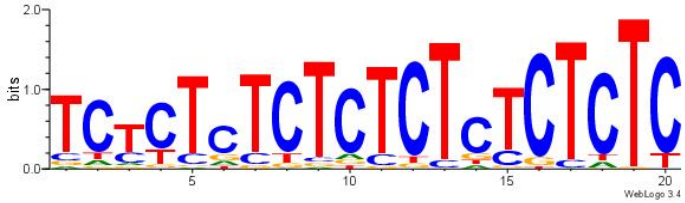

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122944

Alignment:
AAGACCTTCCAGTGGGACAA
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

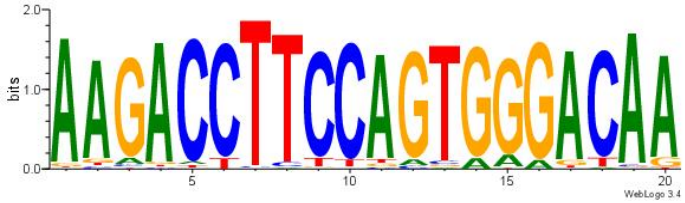

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

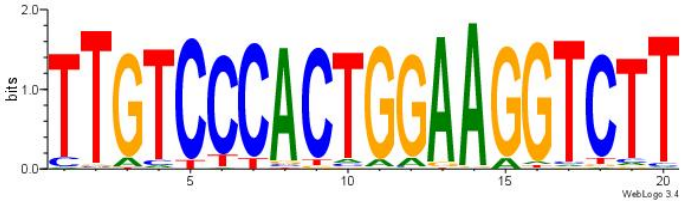

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.128248

Alignment:
GACTGGCAGGCAGCTCCACC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

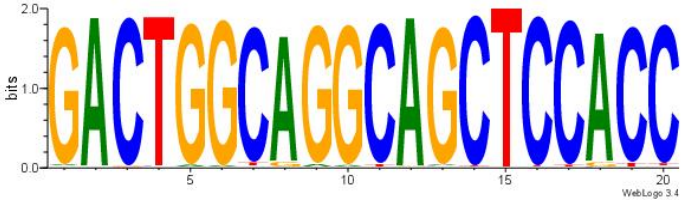

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

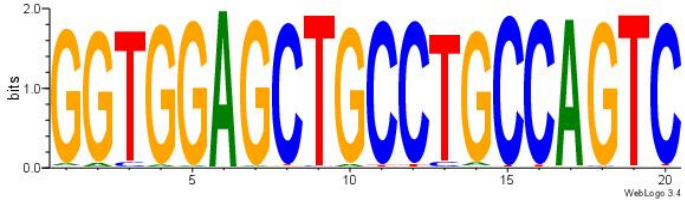

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.129266

Alignment:
ACTCCCTAGTGAGATGAACC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

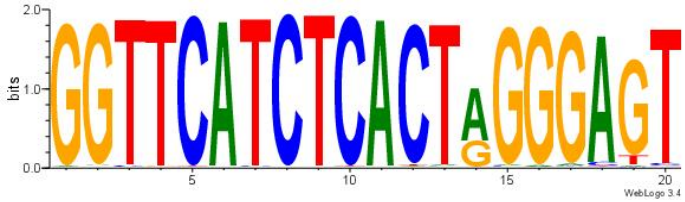

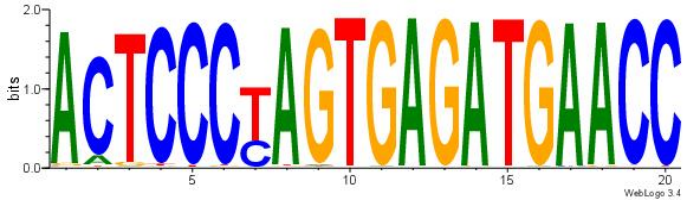

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13223

Alignment:
CTTGCCCAAGGTCACACAGC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

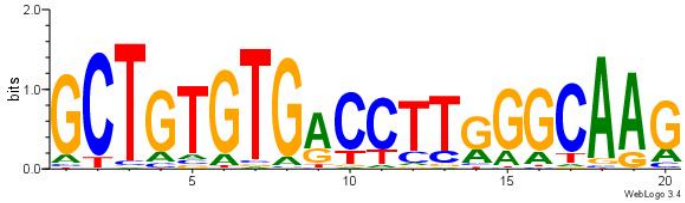

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

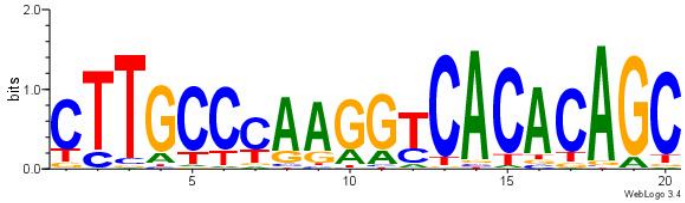

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133125

Alignment:
ACTGTCTTCCACCTCCACAT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

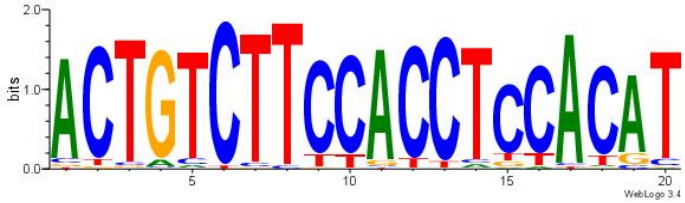

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

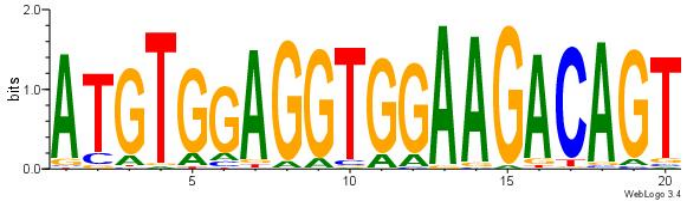

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.134284

Alignment:
GCCAGTCACAAAARGACAMA
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

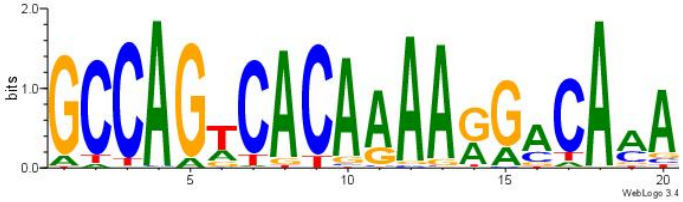

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

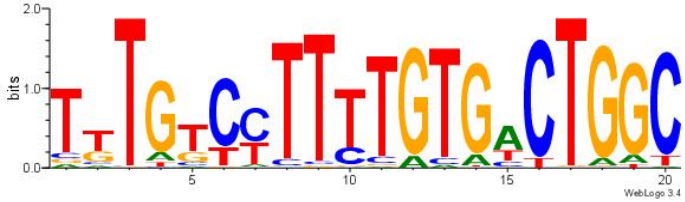

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.134736

Alignment:
TCCCTCCCGGACGGGGYGGC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

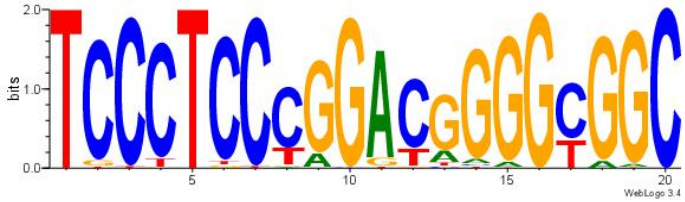

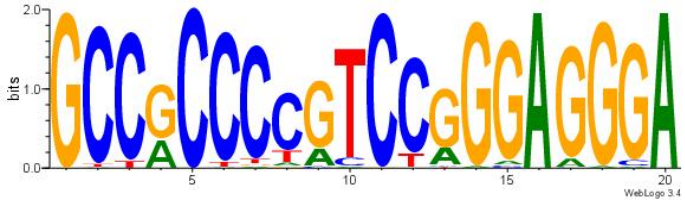

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138468

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GCTGGAGTGCAGTGGCRYGA
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

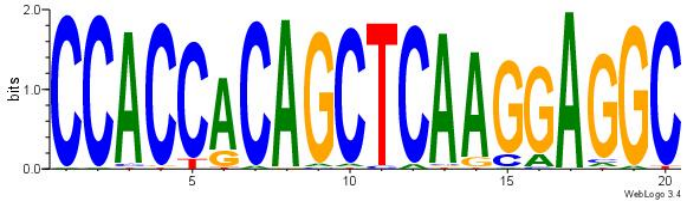

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

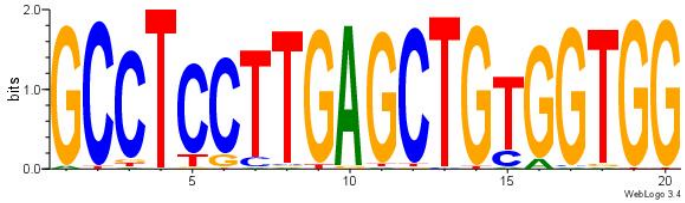

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139485

Alignment:

```
AAGCTCGAACTGGGTGGAGC
TCKMGCCACTGCACTCCAGC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

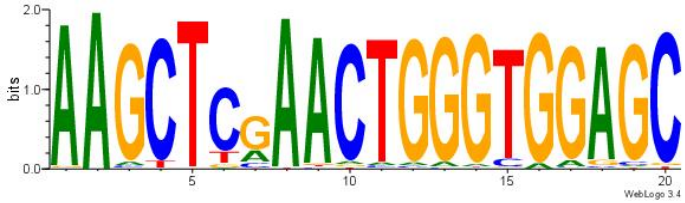

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

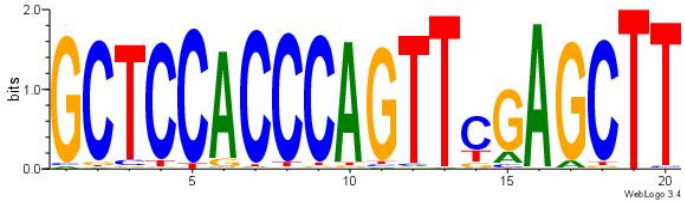

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139615

Alignment:
MGTCTMKCTCTGTKGCCCAG
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

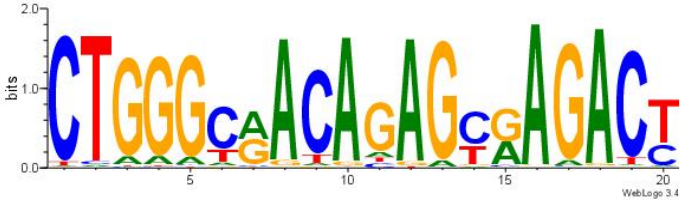

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

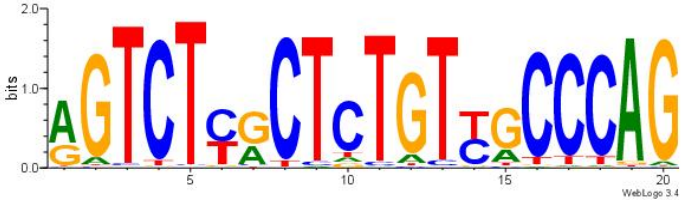

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139651

Alignment:
CCGCTGCACTGTGGGAGCCC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

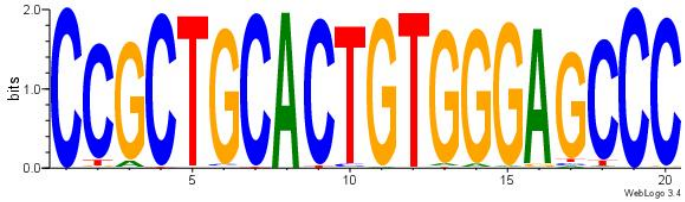

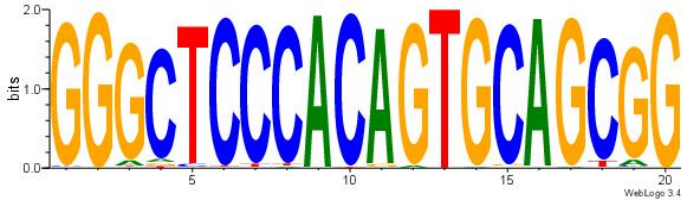

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143009

Alignment:

```
AATCAACCCTGGYRATCAAT
TCKMGCCACTGCACTCCAGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

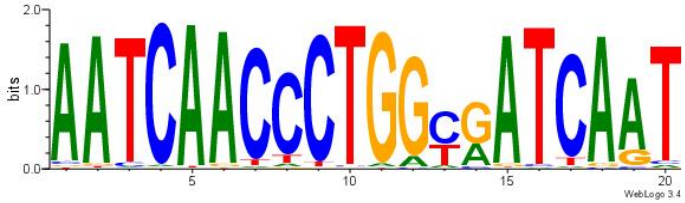

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

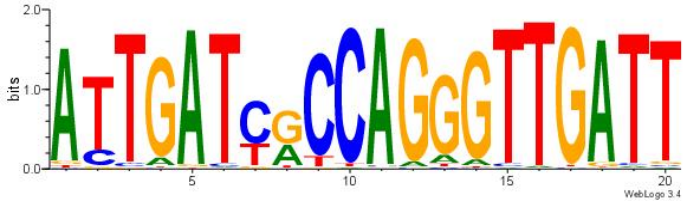

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143036

Alignment:

AGCTGTGAGAAGAGGGCCAC
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

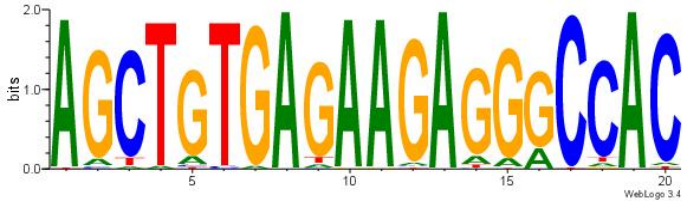

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

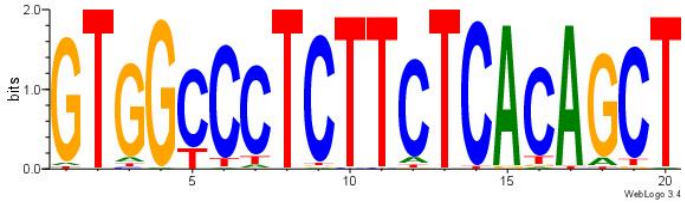

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.143695

Alignment:
CMTAGYACAGTGCCTGGCAC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

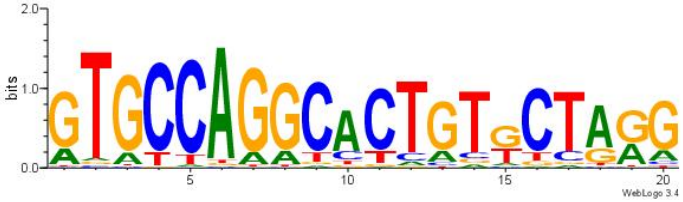

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

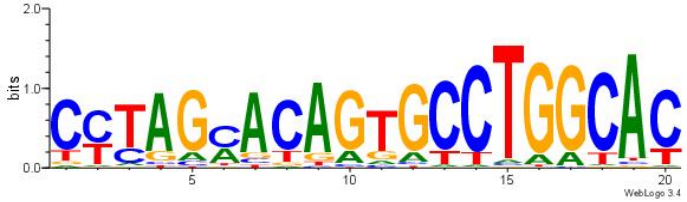

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143823

Alignment:
CCCGAAGCTGCRYRCTCGGT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

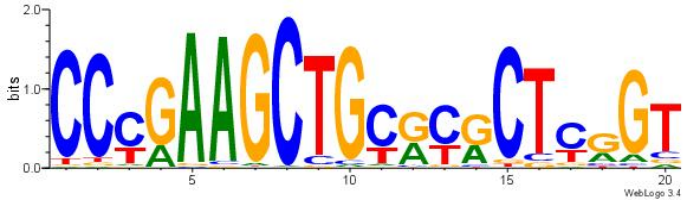

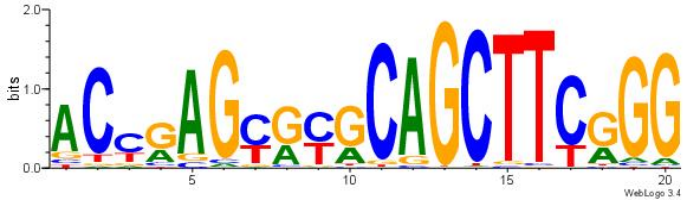

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14386

Alignment:

```
AAAATCACAAGCATTCCTAT
TCKMGCCACTGCACTCCAGC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

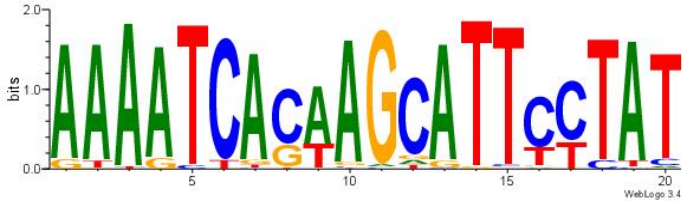

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

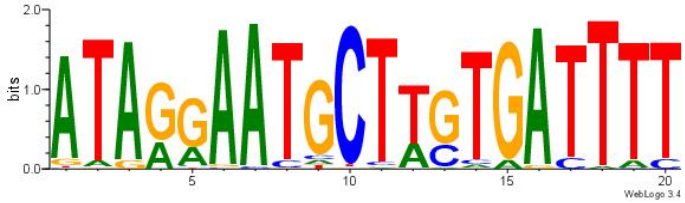

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14566

Alignment:
MTCCTCCAGACCCCAGAATG
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

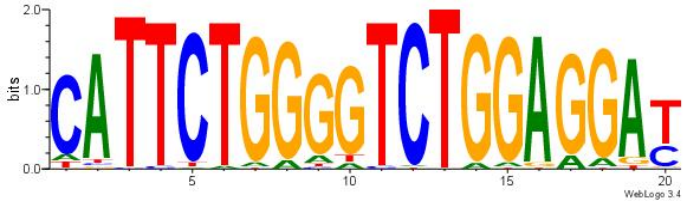

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

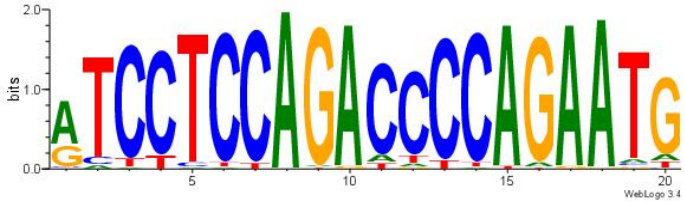

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145975

Alignment:
KCCGGGCCTTAGCTGCCTTC
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

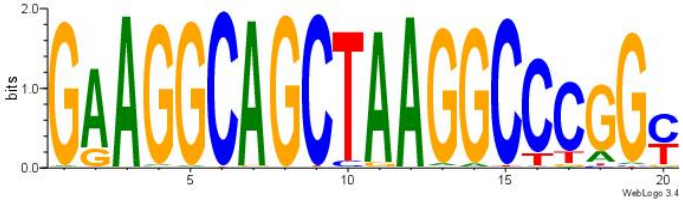

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

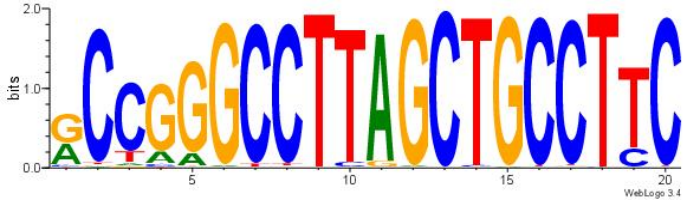

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146131

Alignment:
CTCCTGCCTCAGCCTCCCRA
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

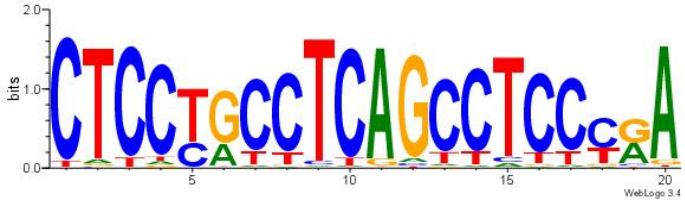

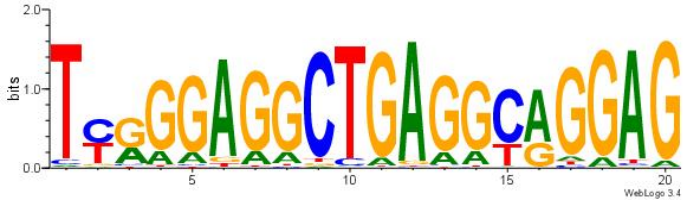

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147159

Alignment:

```
GCACATGTAYCCYAGAACTT
GCTGGAGTGCAGTGGCRYGA
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

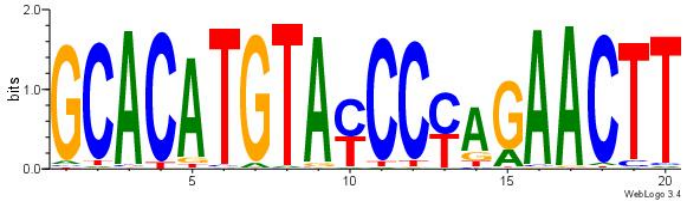

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

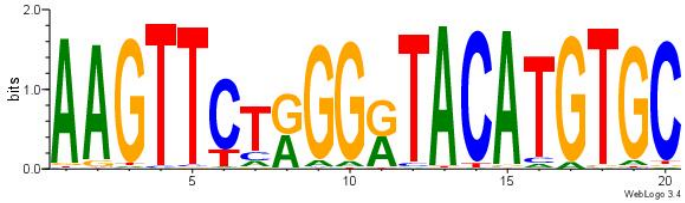

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147225

Alignment:
GAAACTGCTTTGTGATGTGT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

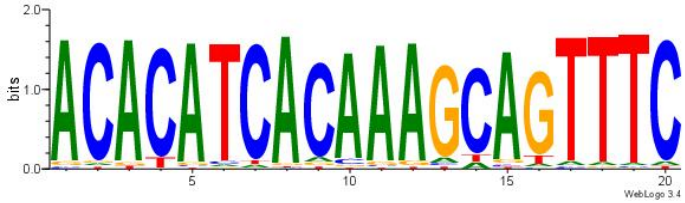

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

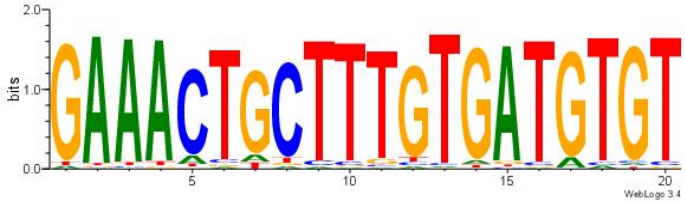

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147844

Alignment:
TGGAGAACCTTTATGTCTAG
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

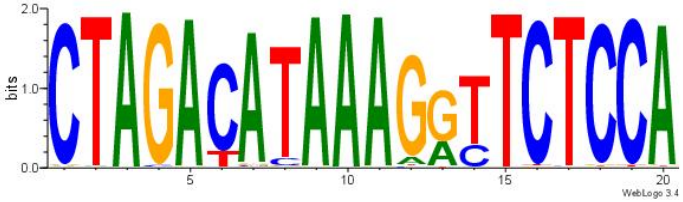

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

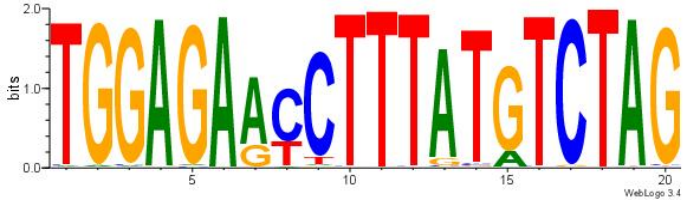

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149552

Alignment:
GCCKGGMKCMGTGGCTCAKG
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

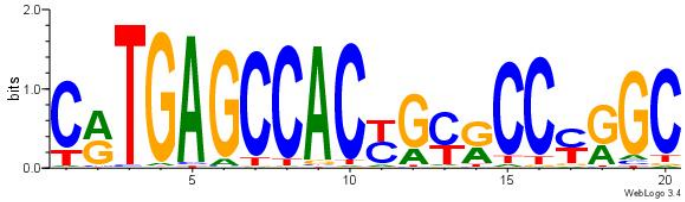

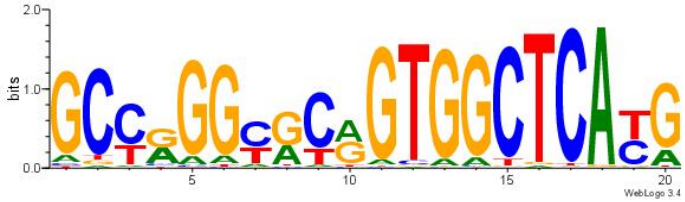

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.151341

Alignment:
HAGTGGKATTGCTGGATCAT
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

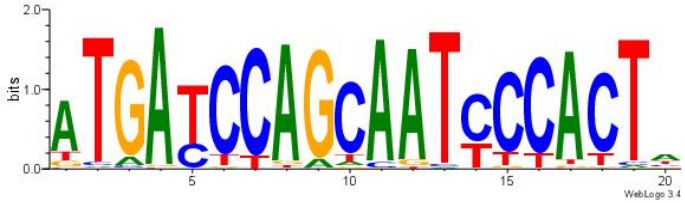

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

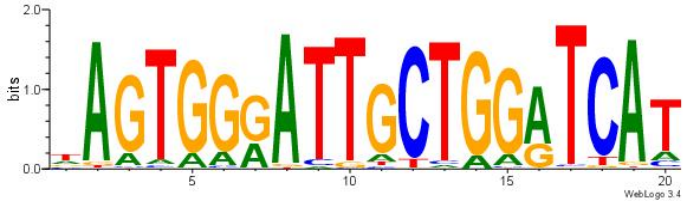

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151583

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
TCKMGCCACTGCACTCCAGC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

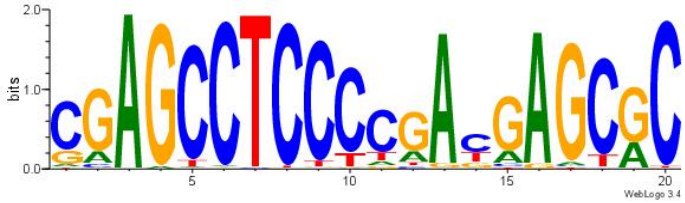

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

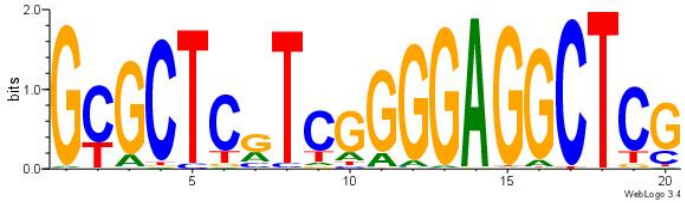

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152781

Alignment:
AACAACASACACTGGGGCCT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

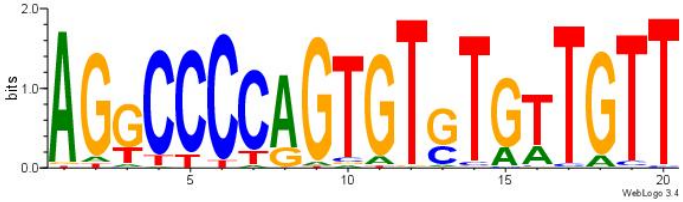

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

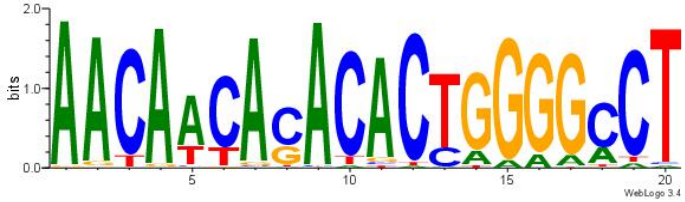

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152795

Alignment:
KKCACCTTGATCTTGGACTT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

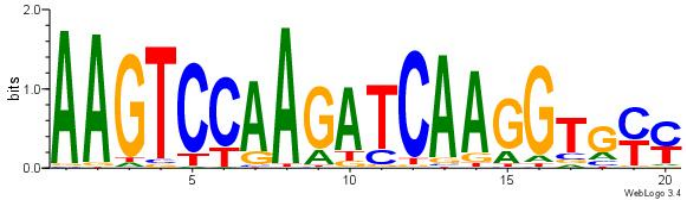

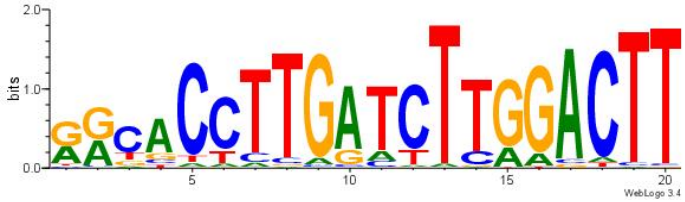

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153934

Alignment:

GAAAGGGAACTCCCTGACCC

TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

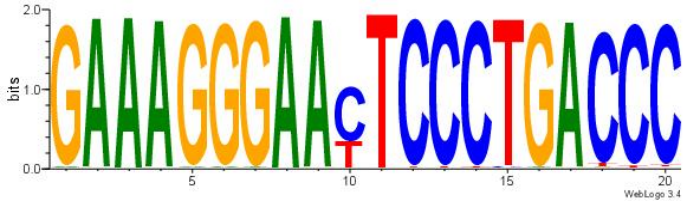

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

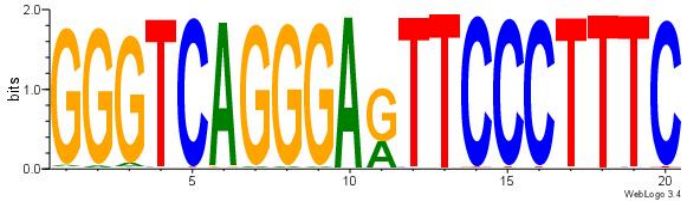

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153969

Alignment:

```
GCAAAKGACATGATYTCATT
TCKMGCCACTGCACTCCAGC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

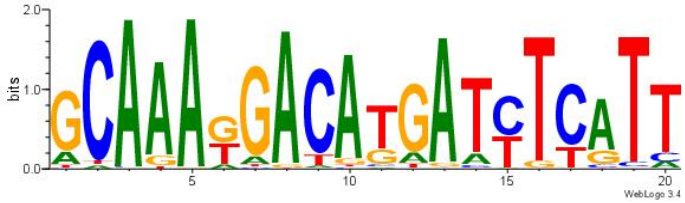

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

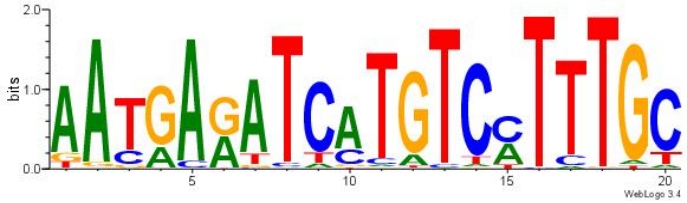

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154205

Alignment:
CAGCTACTCKTATACCCTTG
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

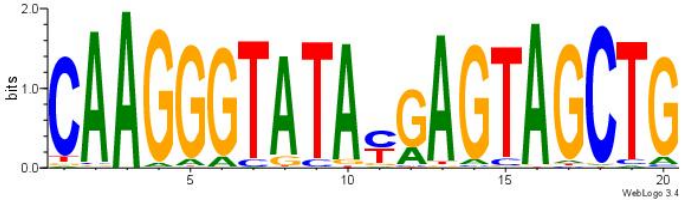

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

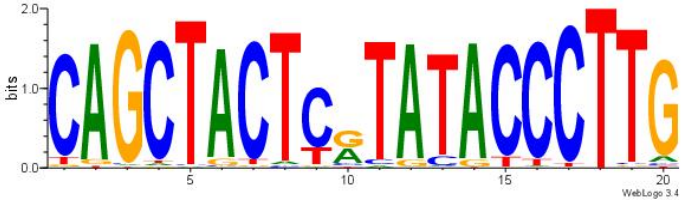

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155314

Alignment:
GTTATTAATTGGCCTAATTT
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

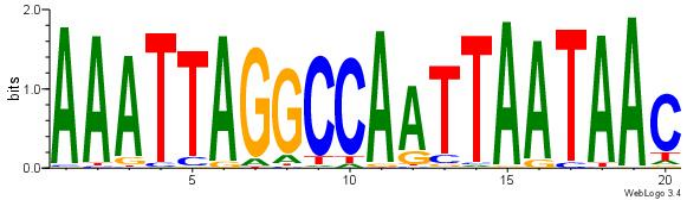

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155355

Alignment:

```
TWTACCTATGTAACAAACCT
TCKMGCCACTGCACTCCAGC
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

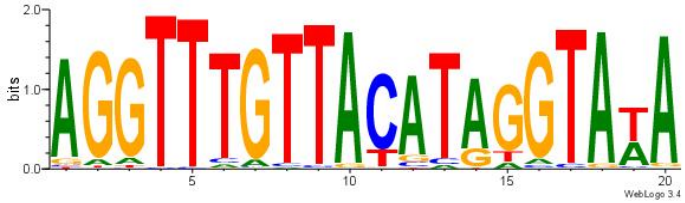

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

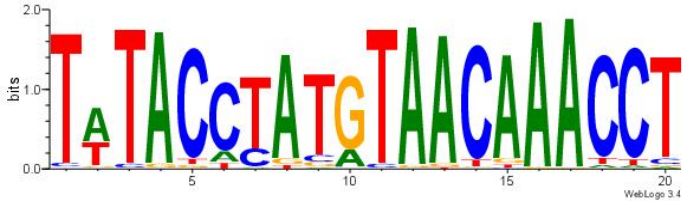

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155523

Alignment:
GTTTAACCATTGAGGGCCAG
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

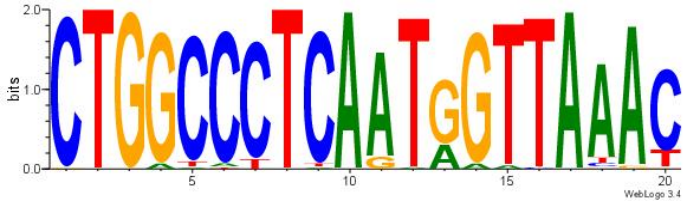

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

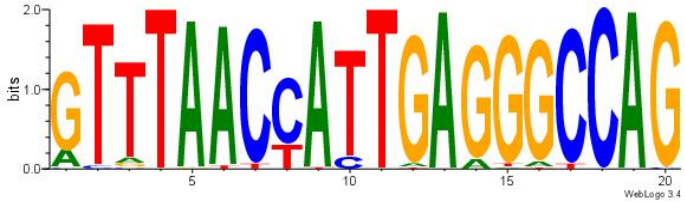

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155671

Alignment:
ACTTTGGACTGTGGACTTTT
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

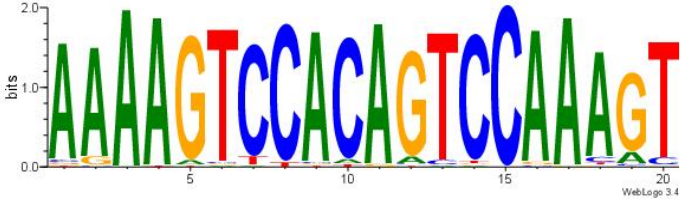

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

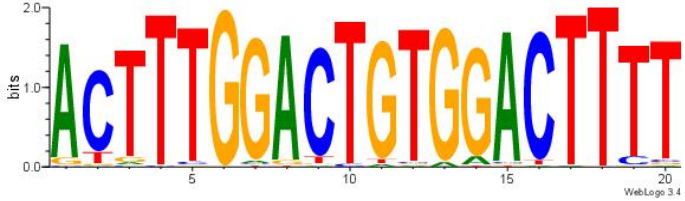

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156041

Alignment:
GGGATTGTAAATACACCAAT
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

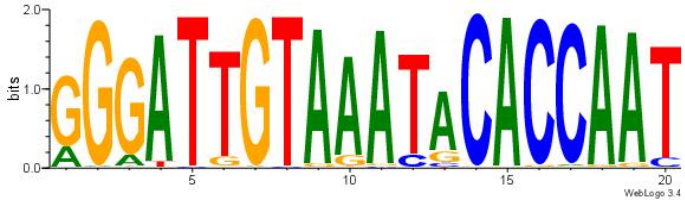

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15704

Alignment:
GAAHCAACCKAAKTGTCCAT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

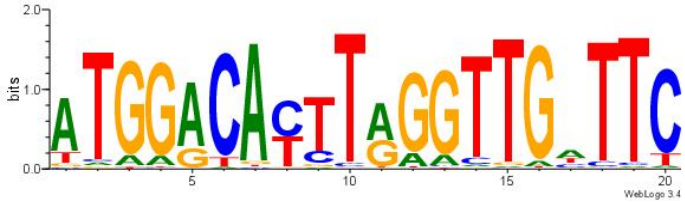

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

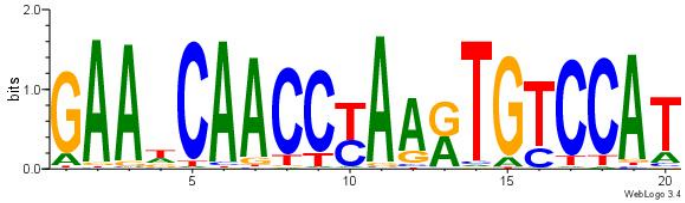

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157082

Alignment:

```
AGTGAGAACATRYRRTRTTT
GCTGGAGTGCAGTGGCRYGA
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

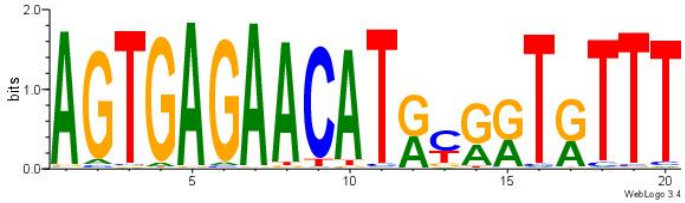

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

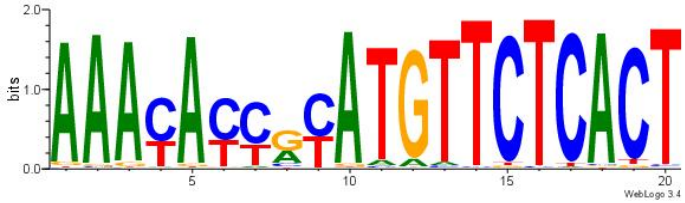

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157288

Alignment:
TGGCTTCACCCAGTGGATCC
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

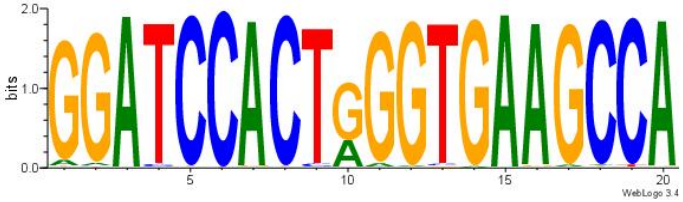

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

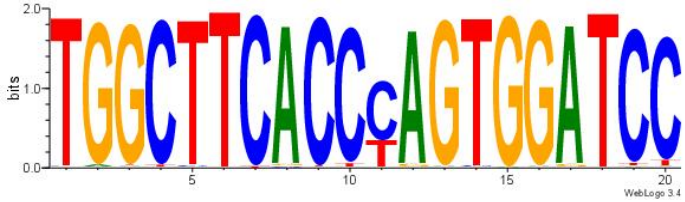

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157985

Alignment:
GAATACCTCCTGAAGGACCT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

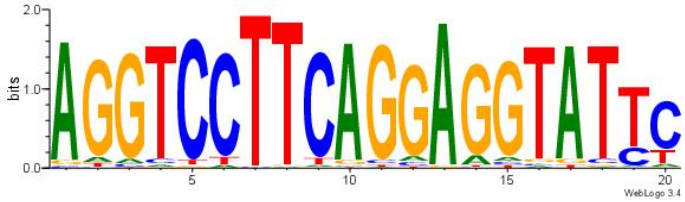

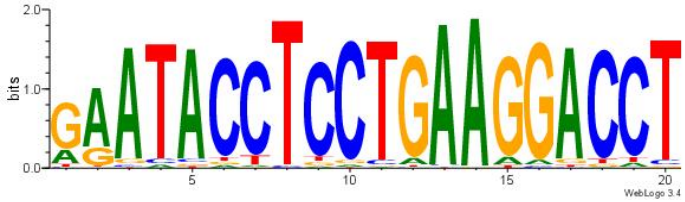

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158005

Alignment:
GCCAATTTCTCCCATTTGGA
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

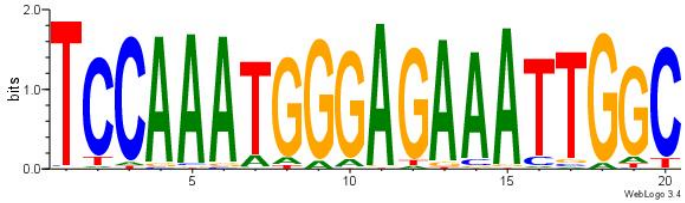

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

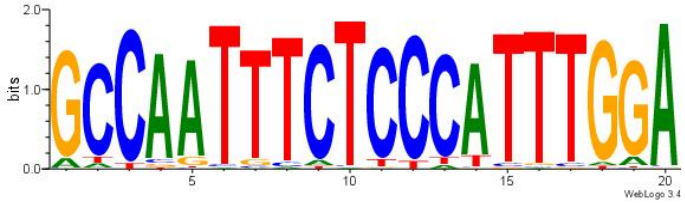

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158589

Alignment:

```
ATGGCTGAATAKTATTCCAT
GCTGGAGTGCAGTGGCRYGA
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

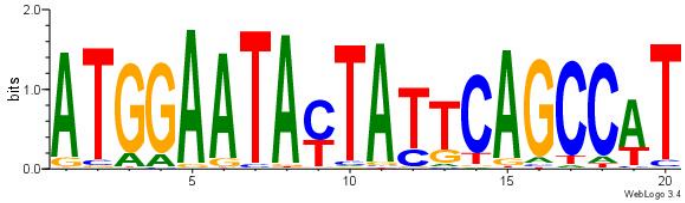

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

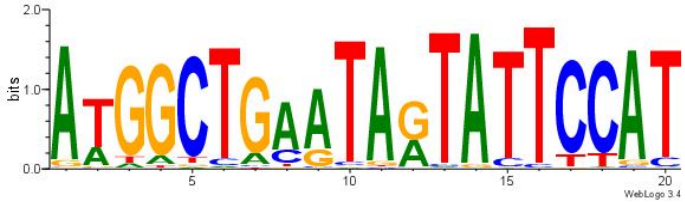

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158686

Alignment:
ATCTGACAGGAGGYRGAGCT
GCTGGAGTGCAGTGGCRYGA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

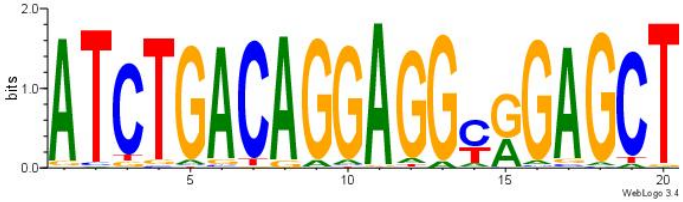

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

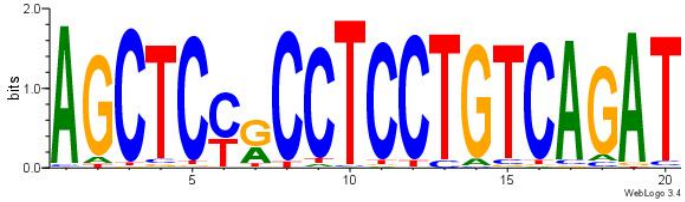

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.159334

Alignment:
AGTAGGTGCTCARTAAATRB
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

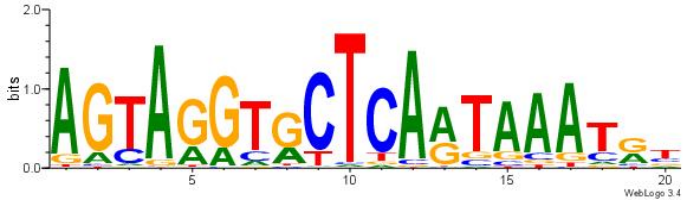

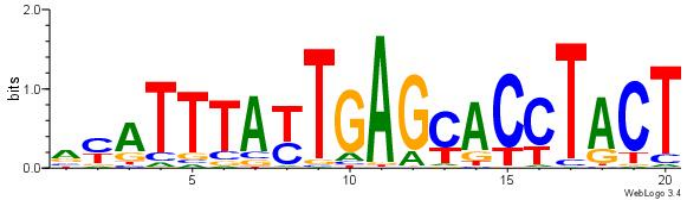

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159941

Alignment:

```
CAGGTGGTKTTTGGTTACAT
GCTGGAGTGCAGTGGCRYGA
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

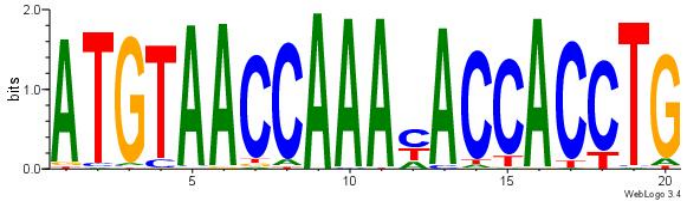

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

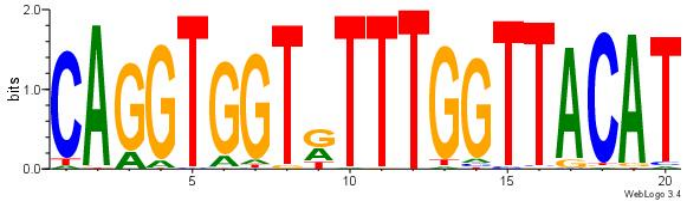

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160948

Alignment:

```
CGTCGCTCACGCTGGGAGCT
GCTGGAGTGCAGTGGCRYGA
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

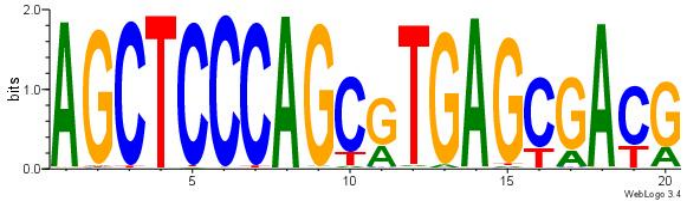

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

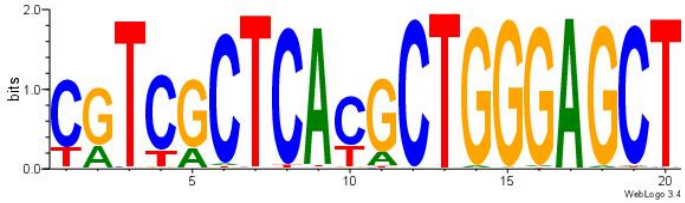

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.163803

Alignment:
AGCCYCTGGYAACCAYYAWT
TCKMGCCACTGCACTCCAGC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

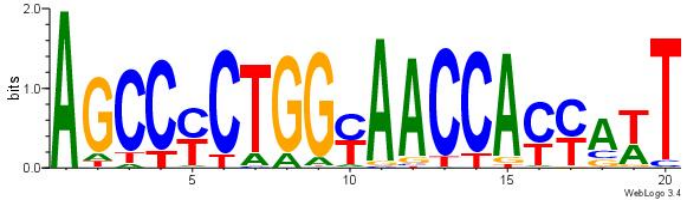

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

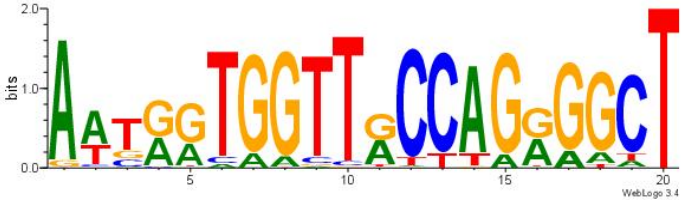

Dataset #: 1 Motif ID: 4 Motif name: Motif 4

Original motif Consensus sequence: GCTGGGATTACAGG

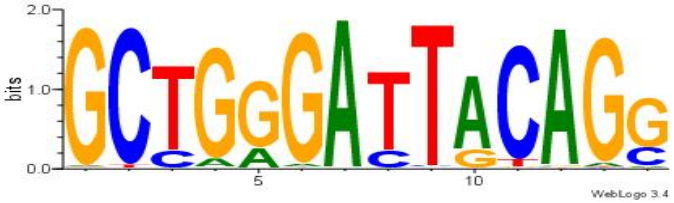

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Best Matches for Motif ID 4 (Highest to Lowest)

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0598063

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-----GCTGGGATTACAGG
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

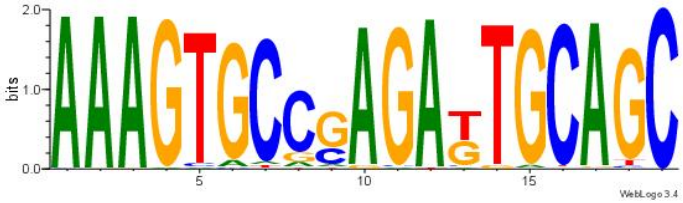

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

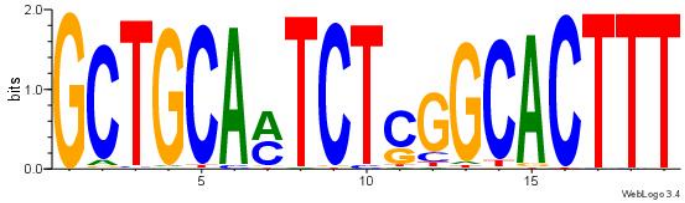

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0659358

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-----CCTGTAATCCCAGC-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

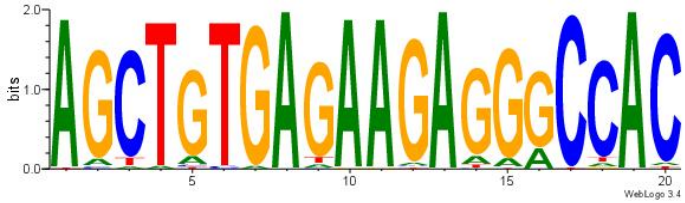

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

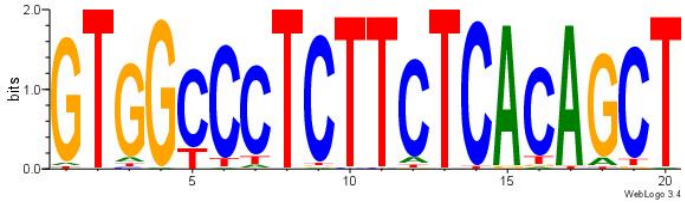

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0789579

Alignment:

```
HAGTGGKATTGCTGGATCAT
-GCTGGGATTACAGG-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

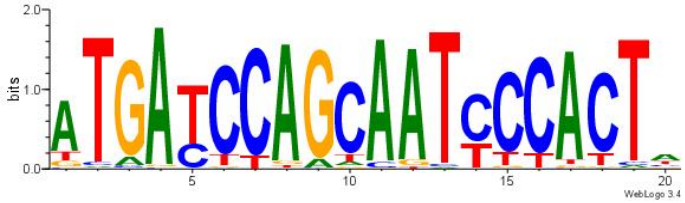

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

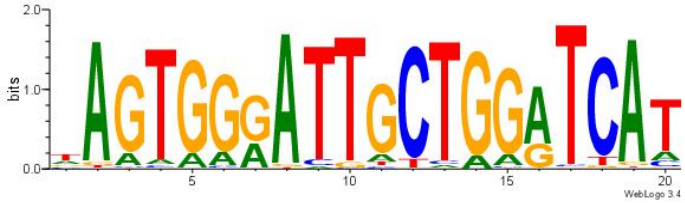

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0825729

Alignment:

```
ATACAATGGGGGTACAGRC
----GCTGGGATTACAGG-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

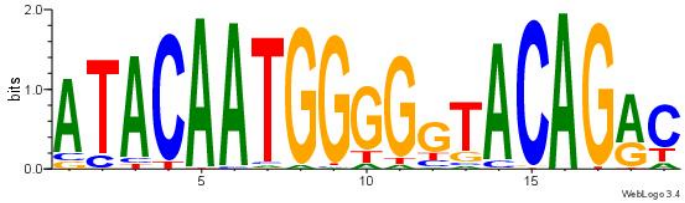

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

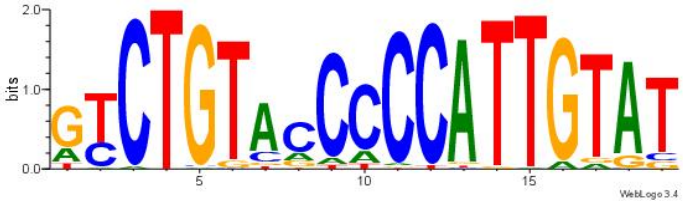

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.0827625

Alignment:
CGCGGCGCTTGCGGGCCAGC
-GCTGGGATTACAGG-----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

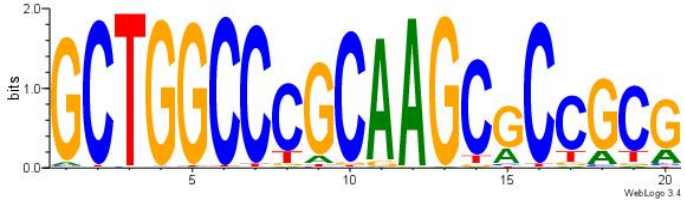

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

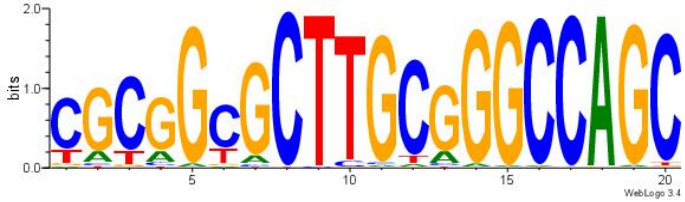

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0928174

Alignment:
GACATGGAGTCAAAGG
--CCTGTAATCCCAGC

Original motif Consensus sequence: GACATGGAGTCAAAGG

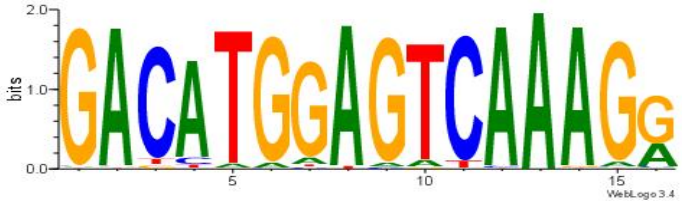

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

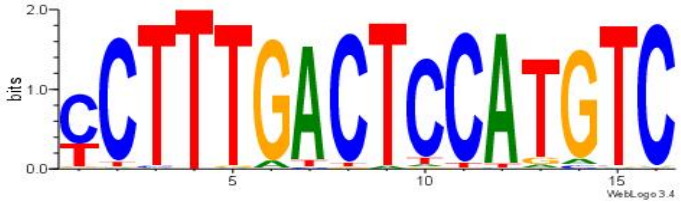

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0947202

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
--GCTGGGATTACAGG----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

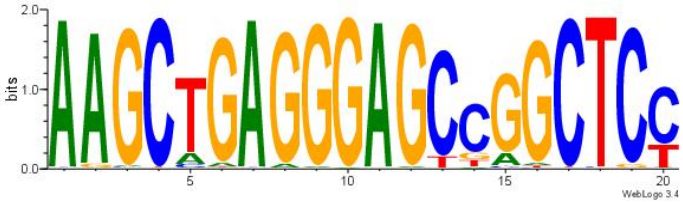

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

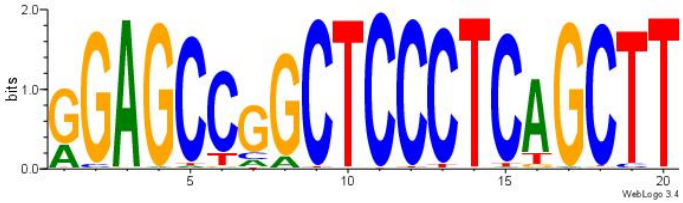

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0953586

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-----CCTGTAATCCCAGC-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

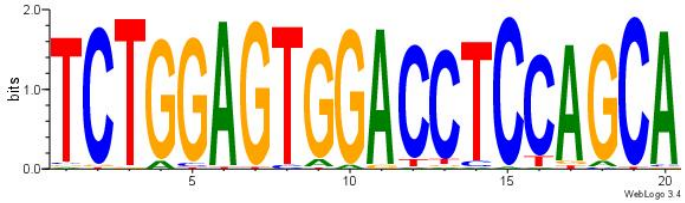

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

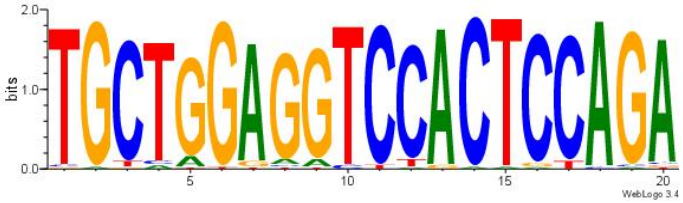

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.0956182

Alignment:
GCCACCAMGCCMKGCTAAT
-CCTGTAATCCCAGC----

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

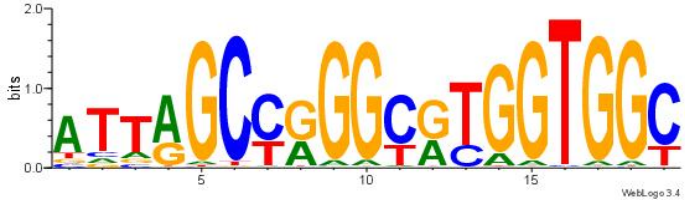

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

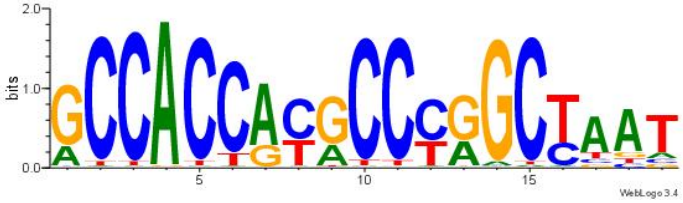

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0964775

Alignment:
CTCATTTAATCCTCACAAC
--CCTGTAATCCCAGC---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

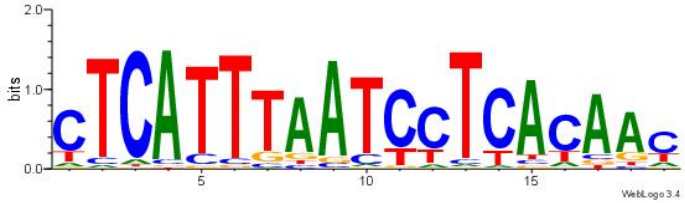

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

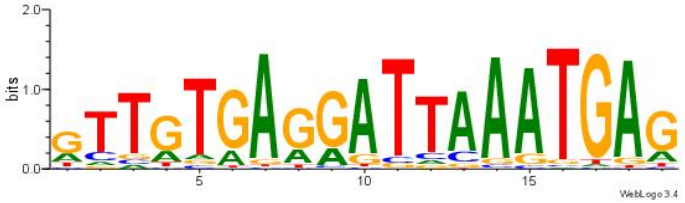

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0976752

Alignment:

```
GGGATTGTAAATACACCAAT
---CCTGTAATCCCAGC---
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0977704

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------CCTGTAATCCCAGC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

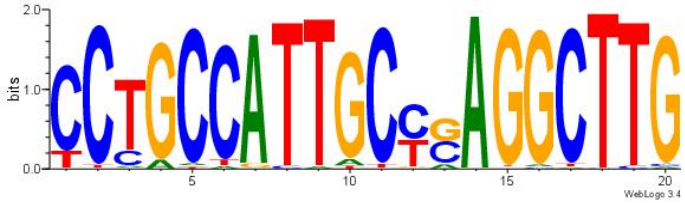

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

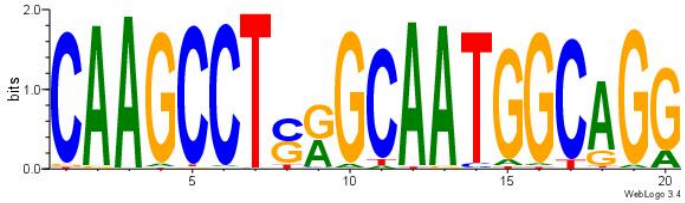

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.098368

Alignment:
GAATCCTGGGACAGCCTGT
----GCTGGGATTACAGG-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

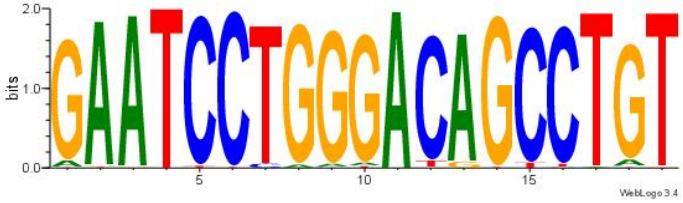

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

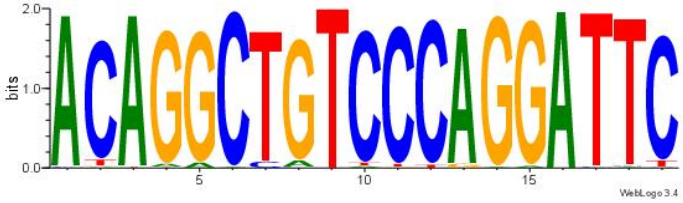

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.0986534

Alignment:
AGTGACCCGATTTTCCAGGT
-----GCTGGGATTACAGG-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

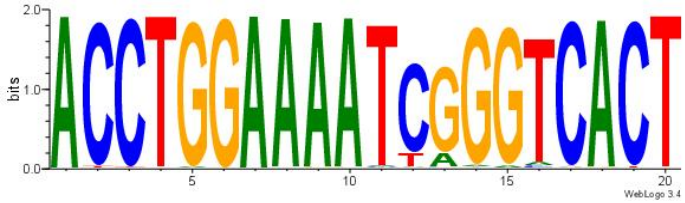

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

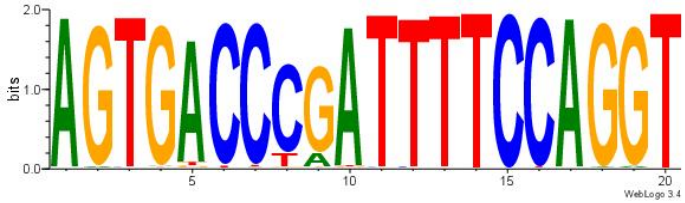

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.099414

Alignment:

```
TCTMKGCTCACTGC
CCTGTAATCCCAGC
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

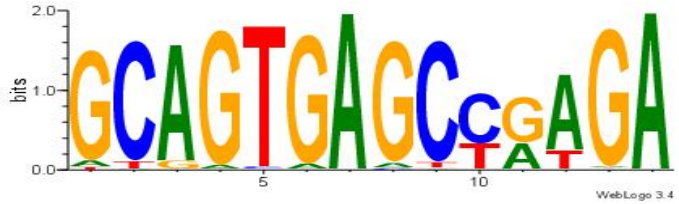

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

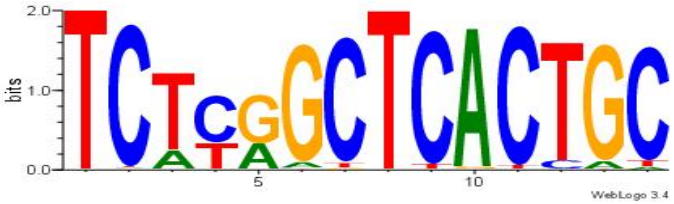

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.099743

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CCTGTAATCCCAGC------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

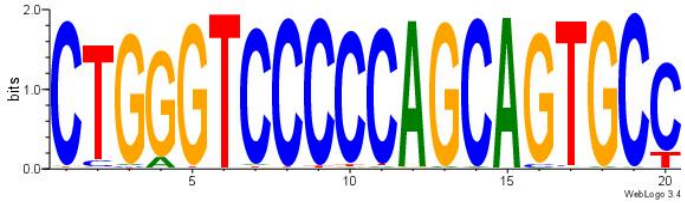

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

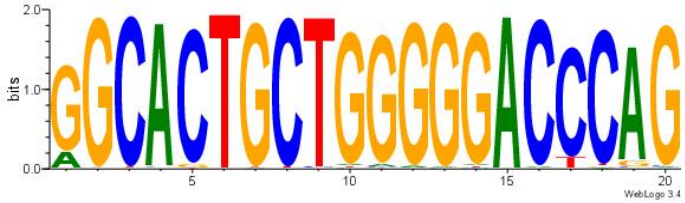

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 14
Similarity score: 0.101348

Alignment:
CACCAGGAGATTATATCCCR
---GCTGGGATTACAGG---

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

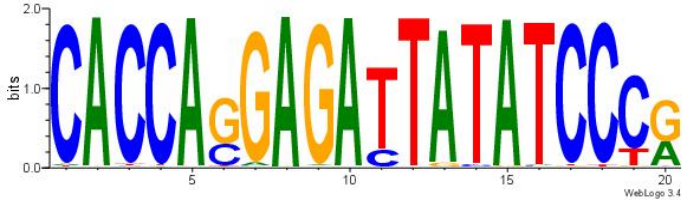

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

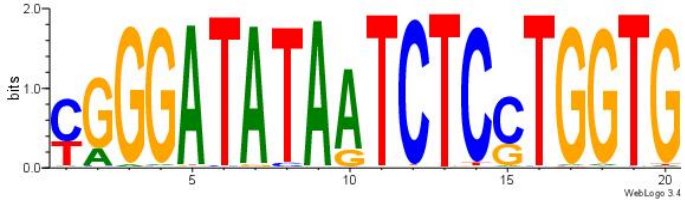

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.10145

Alignment:
ATCTCASAAATCACCACTA
---CCTGTAATCCCAGC--

Original motif Consensus sequence: ATCTCASAAATCACCACTA

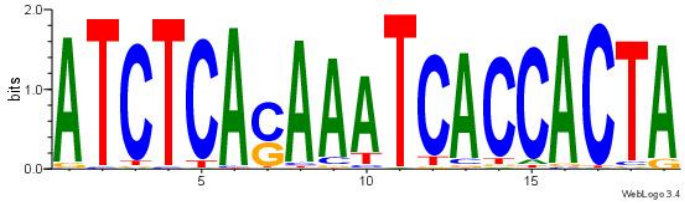

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

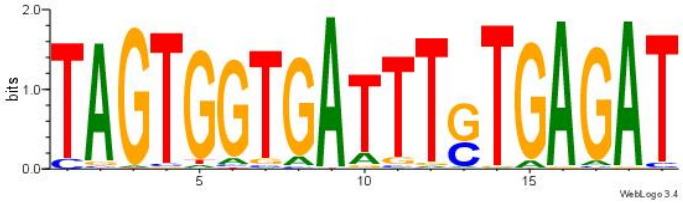

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.101917

Alignment:

```
AGGCTGTTTTACAGTTAAC
-GCTGGGATTACAGG----
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

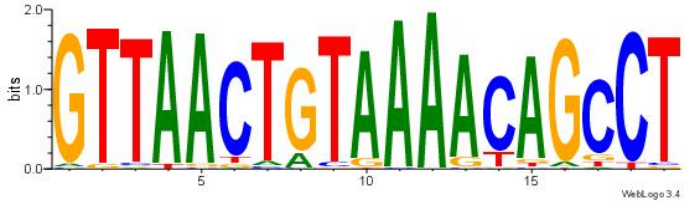

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

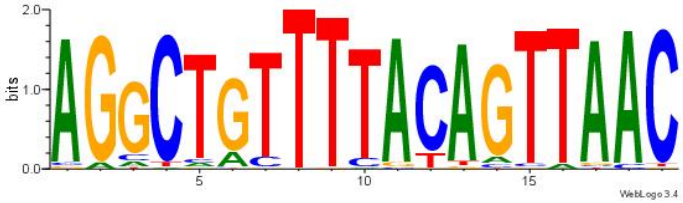

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.10258

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
----CCTGTAATCCCAGC--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

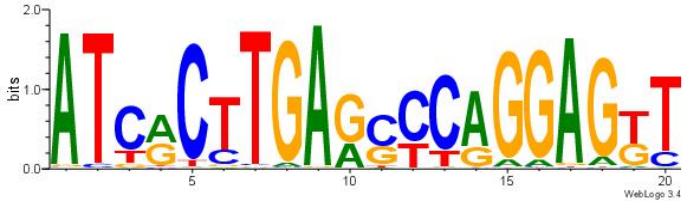

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

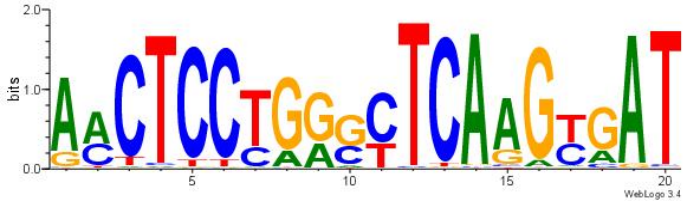

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.102585

Alignment:
GCCRGCCCTGCYGGCC
GCTGGGATTACAGG--

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

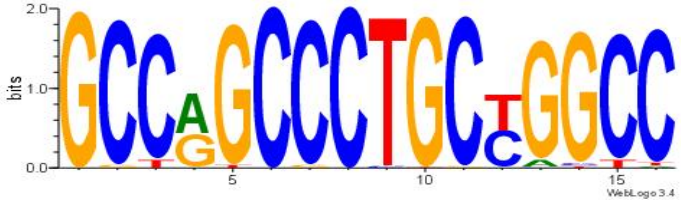

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

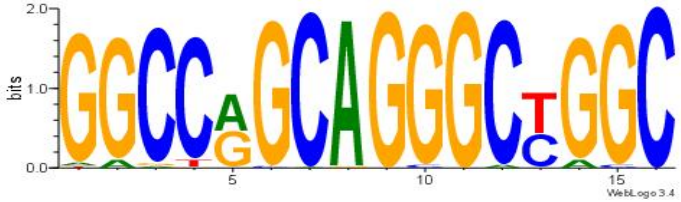

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.103897

Alignment:
GCGMGCGGGAACCGGGGCT
----CCTGTAATCCCAGC-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

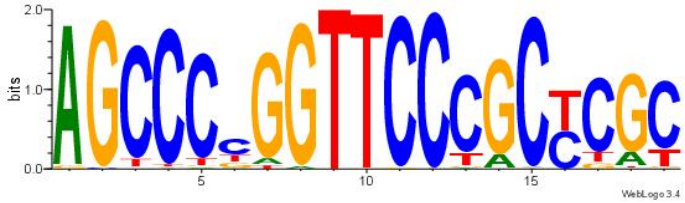

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

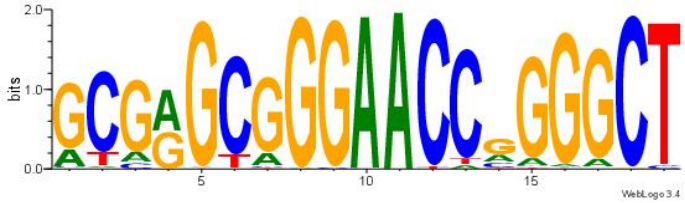

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.104786

Alignment:

```
AGACAGTGGGYGCAGGHCA
--GCTGGGATTACAGG---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

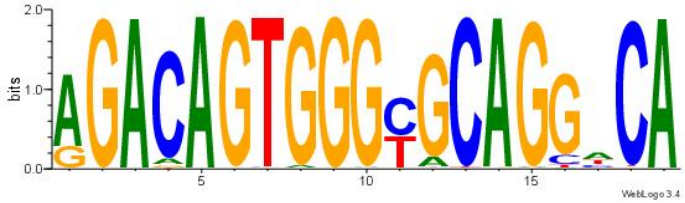

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

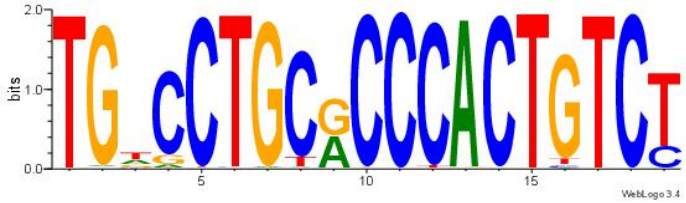

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.105105

Alignment:

```
GGGGGAGACATCACACR
---GCTGGGATTACAGG
```

Original motif Consensus sequence: GGGGGAGACATCACACR

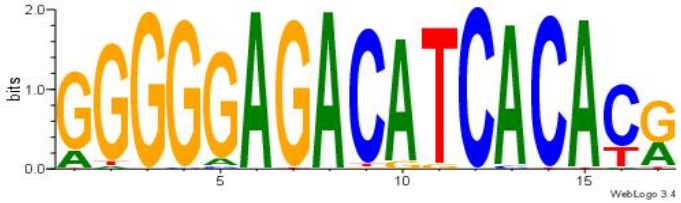

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

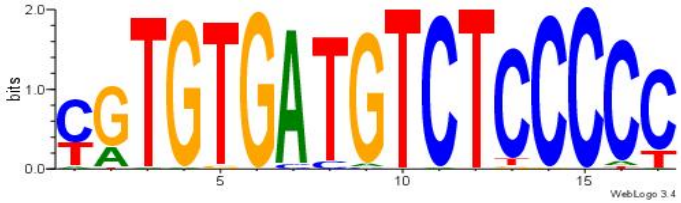

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.105426

Alignment:
ACCGAGMKMGCAGCTTCGGG
CCTGTAATCCCAGC------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

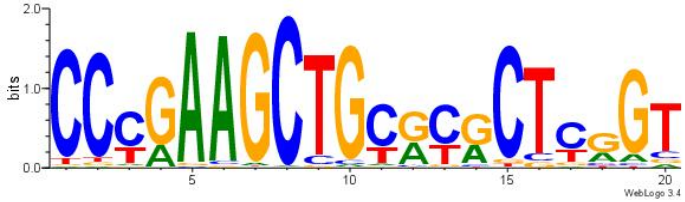

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

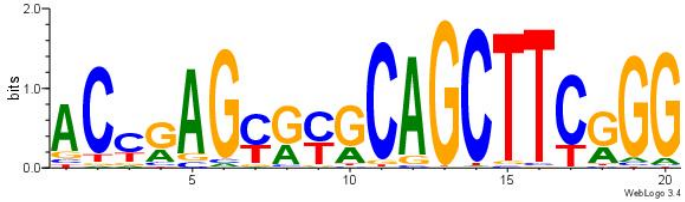

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.105479

Alignment:
AGGASCSTCYSWGCCMGGY
-----CCTGTAATCCCAGC

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

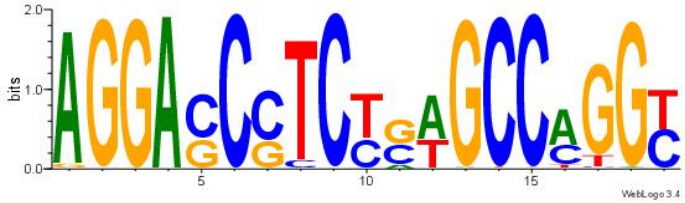

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

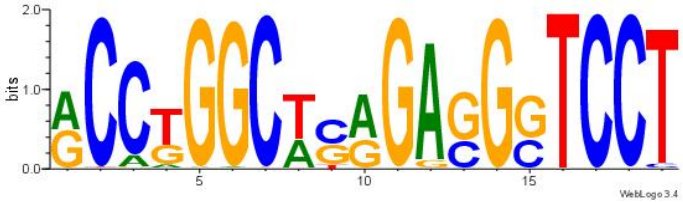

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.105587

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GCTGGGATTACAGG------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

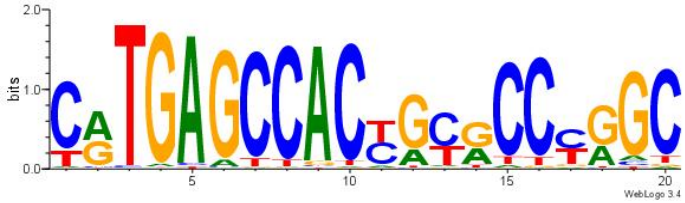

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

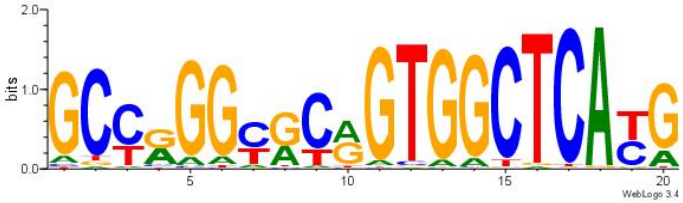

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.105653

Alignment:

```
CTTGCCCAAGGTCACACAGC
------CCTGTAATCCCAGC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

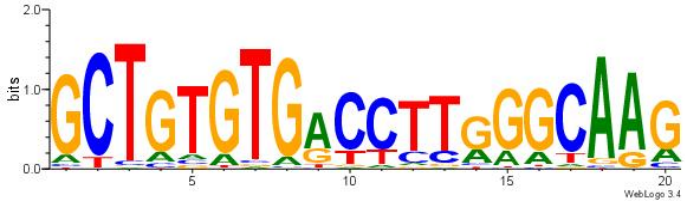

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

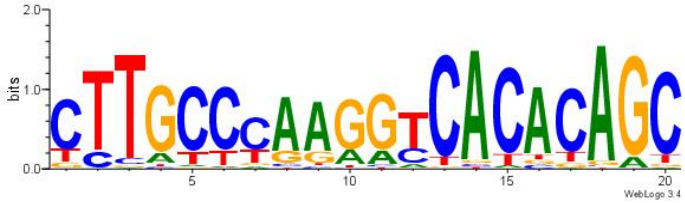

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.105935

Alignment:
TCGTTCACTCAGTGC
-CCTGTAATCCCAGC

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

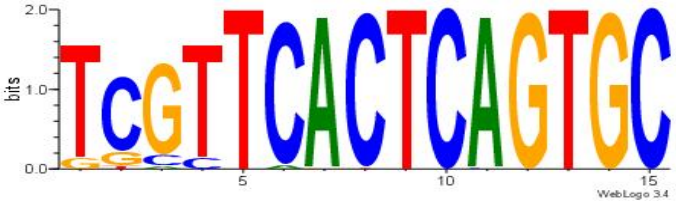

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.107715

Alignment:
AGGAGCGCCTCTKCCCGGC
-----CCTGTAATCCCAGC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

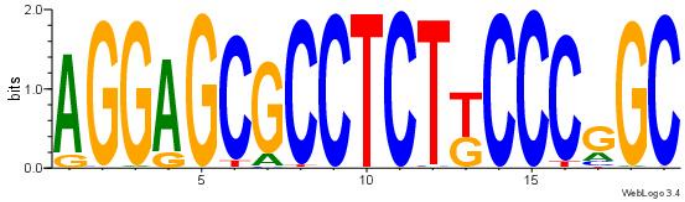

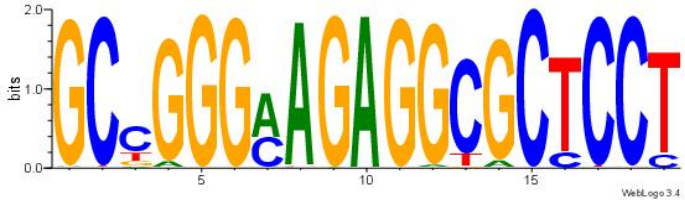

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.10848

Alignment:

```
TCAATGGGCTCCCAAATG
--CCTGTAATCCCAGC--
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

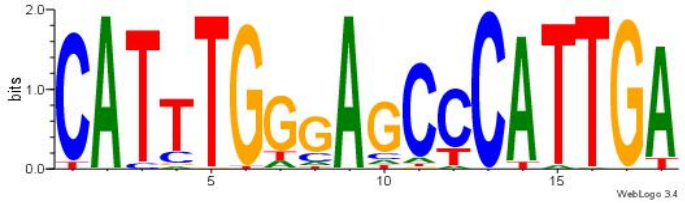

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

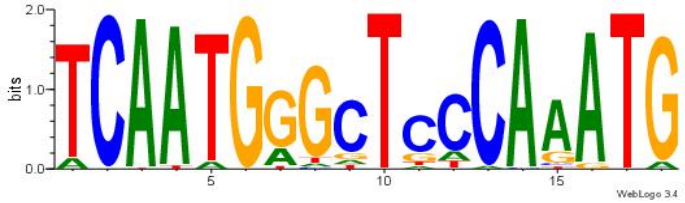

Dataset #:	1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.108678

Alignment:

```
GGGGGCTGACCCCCCCACC
----CCTGTAATCCCAGC-
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

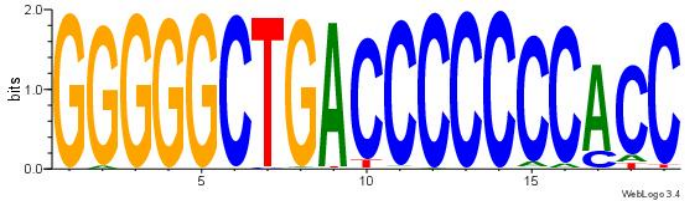

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

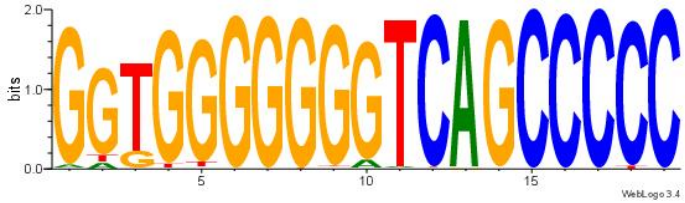

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.111126

Alignment:
GCAGCAMTATTCACAATAG
---CCTGTAATCCCAGC--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

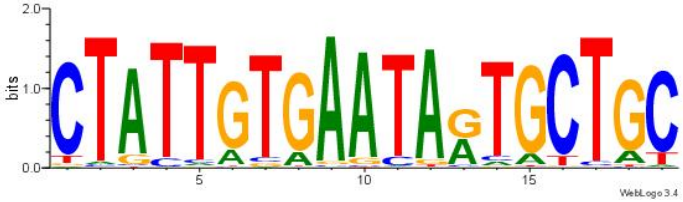

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

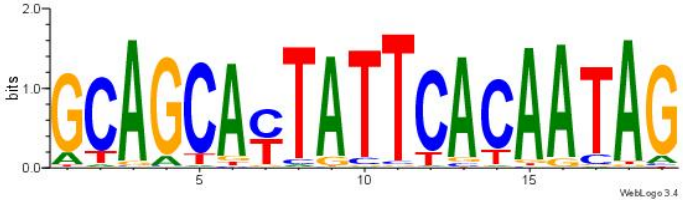

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.111228

Alignment:
GGGTCAGGGAGTTCCCTTTC
---GCTGGGATTACAGG---

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

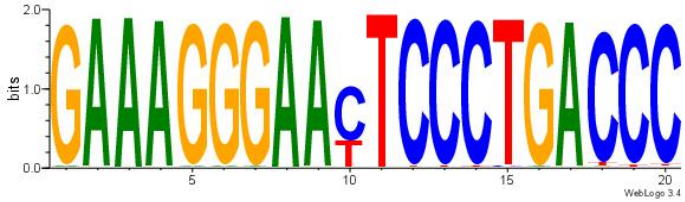

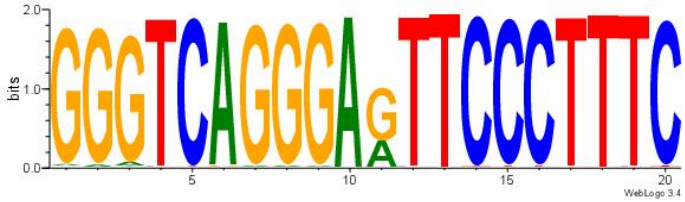

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.111863

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
--GCTGGGATTACAGG----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

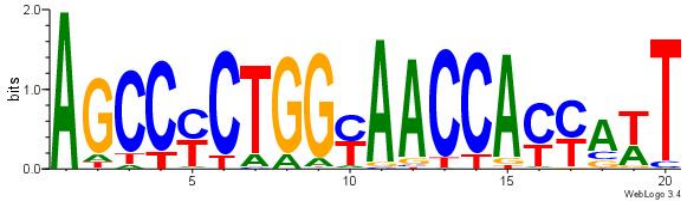

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

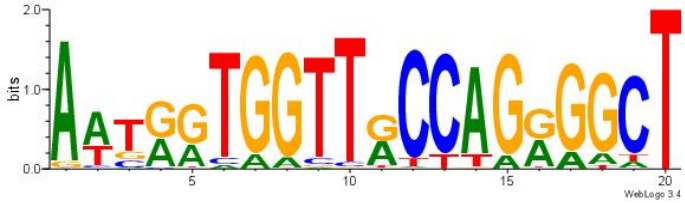

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.111982

Alignment:

```
AAGTTCTKGGKTACATGTGC
---GCTGGGATTACAGG---
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

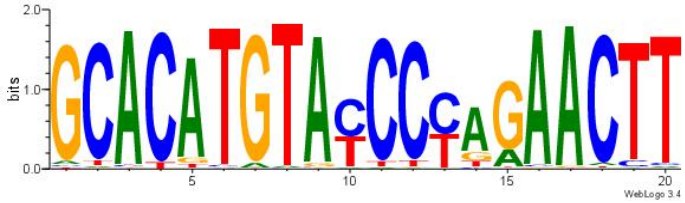

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

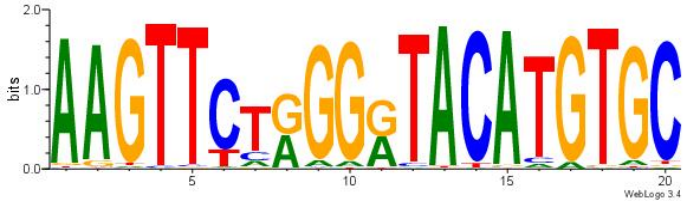

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.112302

Alignment:
AAGCTCGAACTGGGTGGAGC
--GCTGGGATTACAGG----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

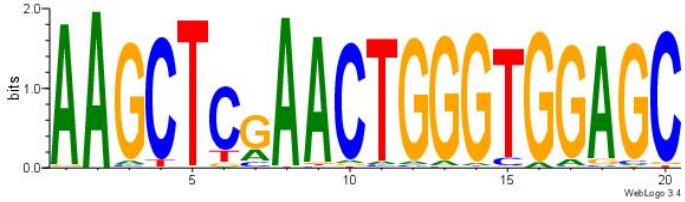

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

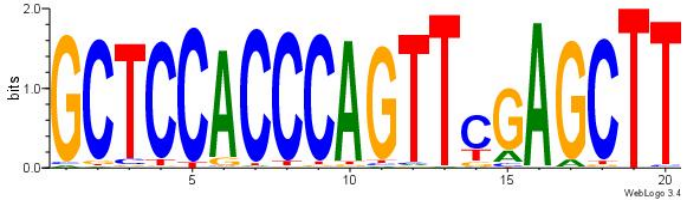

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.112559

Alignment:
GMTTAGCTCCCACTTA
CCTGTAATCCCAGC--

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

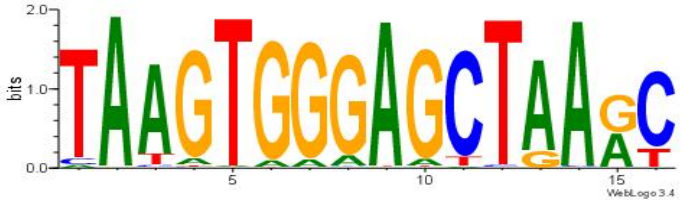

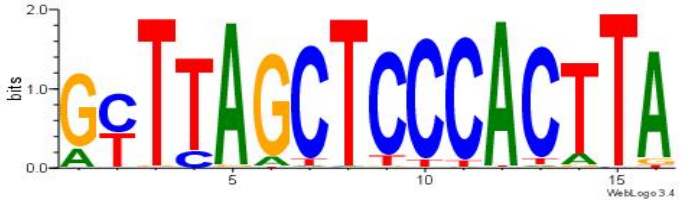

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.112644

Alignment:

```
CATGGCGGGCTGCAGGTC
--GCTGGGATTACAGG--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

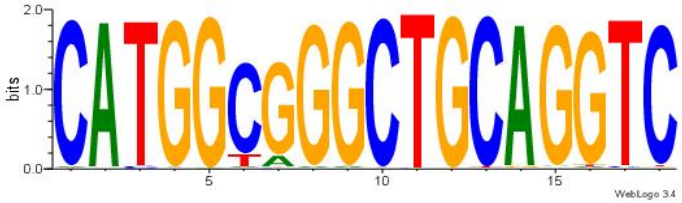

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

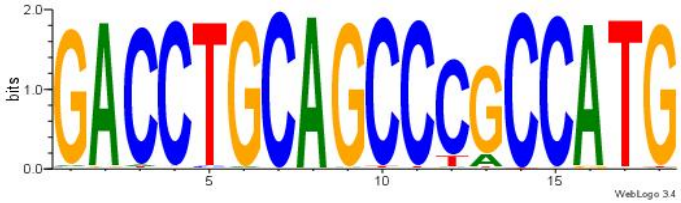

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.112787

Alignment:

```
GCCAGTCACAAAARGACAMA
-GCTGGGATTACAGG-----
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

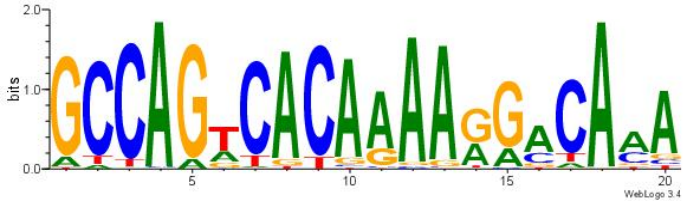

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

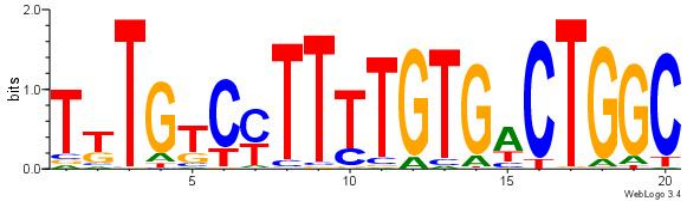

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.112856

Alignment:
GCGCTCKTCGGGGAGGCTCG
--GCTGGGATTACAGG----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

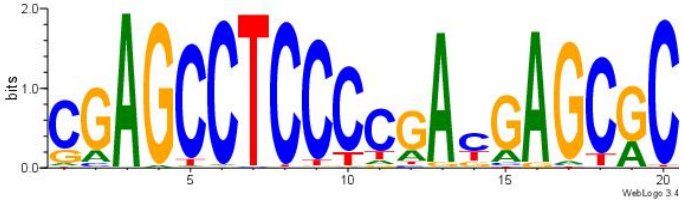

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

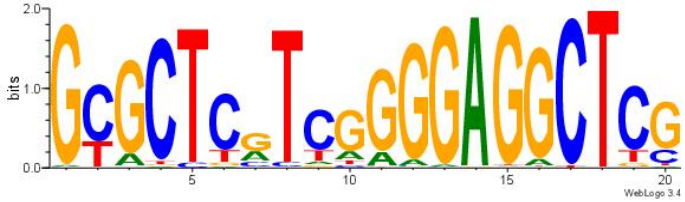

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.112881

Alignment:
AGCTCMKCCTCCTGTCAGAT
-GCTGGGATTACAGG-----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

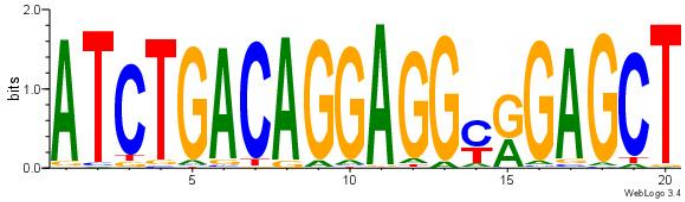

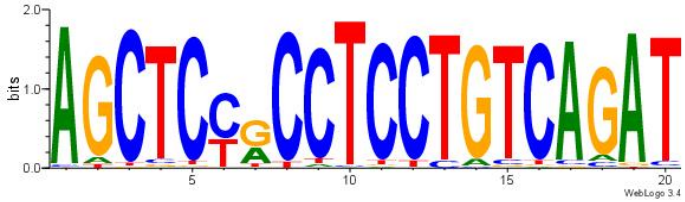

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112903

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
------CCTGTAATCCCAGC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

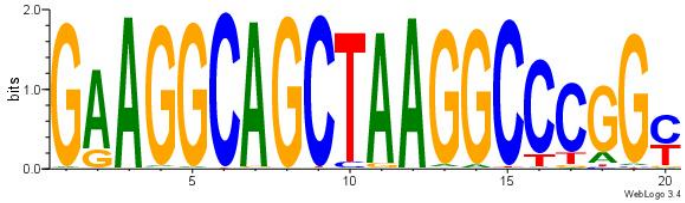

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

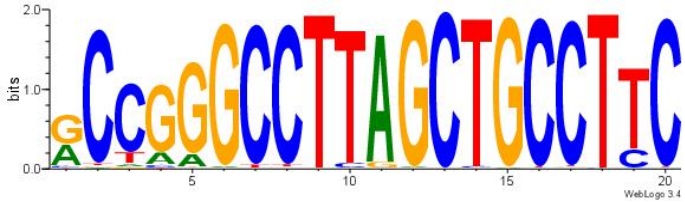

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.113008

Alignment:

```
TCACKMGGGAAGCGCAAG
----GCTGGGATTACAGG
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

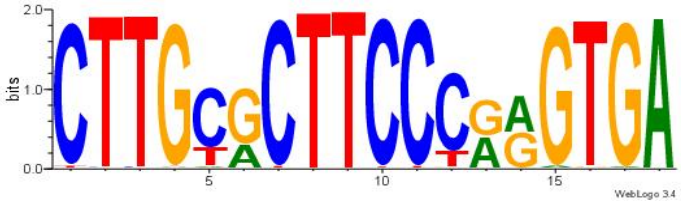

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

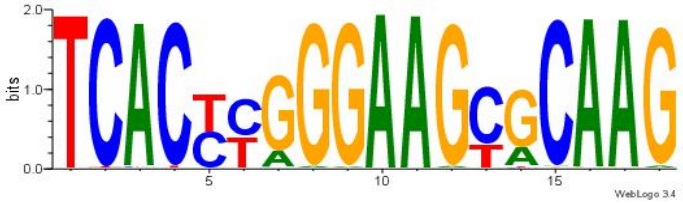

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.113621

Alignment:
CATTCTGGGGTCTGGAGGAY
----GCTGGGATTACAGG--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

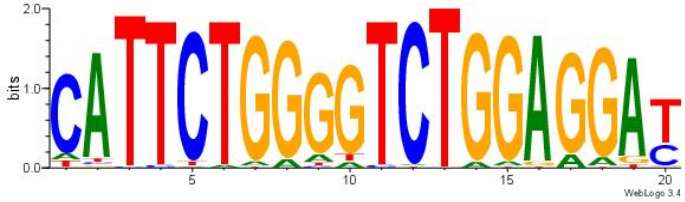

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

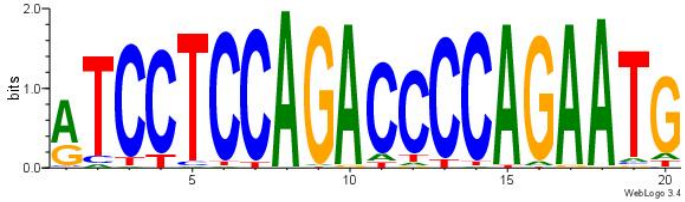

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.113648

Alignment:
CCCTGCTAGAACCTCCAA
-CCTGTAATCCCAGC---

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

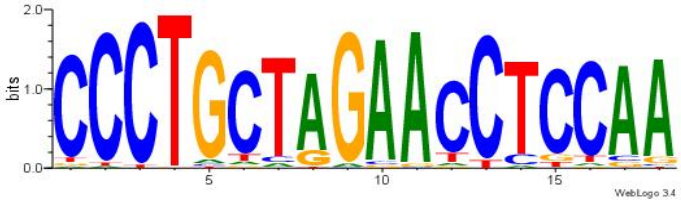

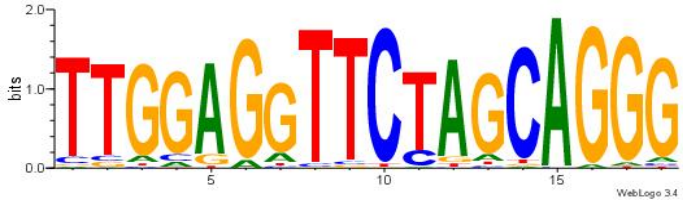

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.114567

Alignment:

```
AGGACTGAGGGTGCCYRGGG
---GCTGGGATTACAGG---
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

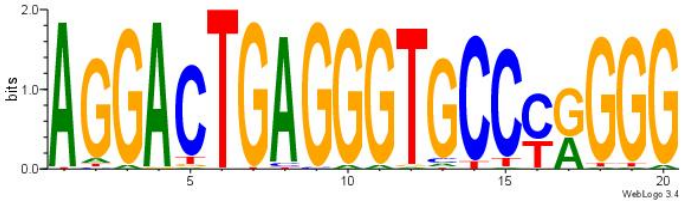

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

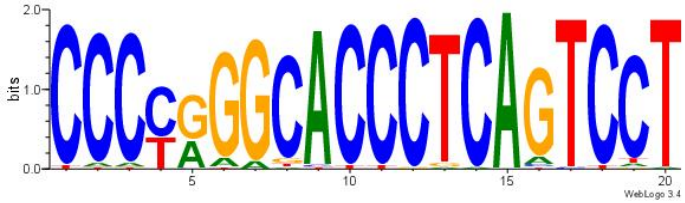

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.114583

Alignment:

```
CAGCTACTCKTATACCCTTG
--GCTGGGATTACAGG----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

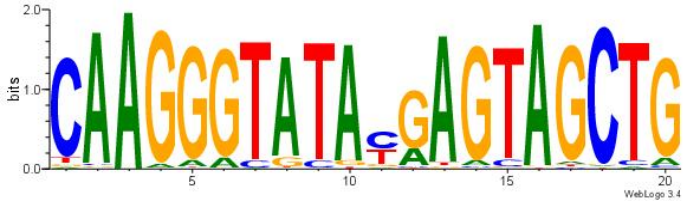

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

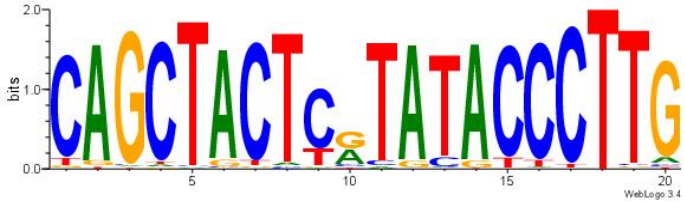

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.114909

Alignment:
ACTGTCTTCCACCTCCACAT
CCTGTAATCCCAGC------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

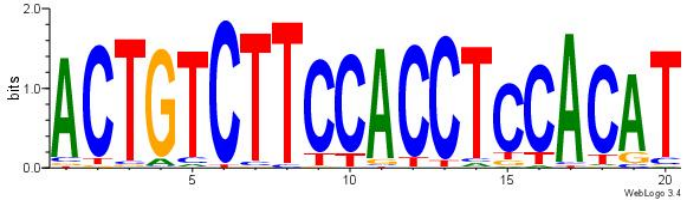

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

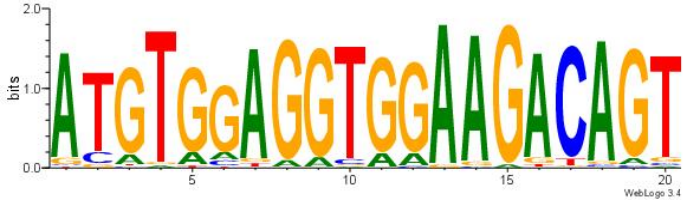

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.115047

Alignment:
AGTTGTAATTGGGAGACTT
-GCTGGGATTACAGG----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

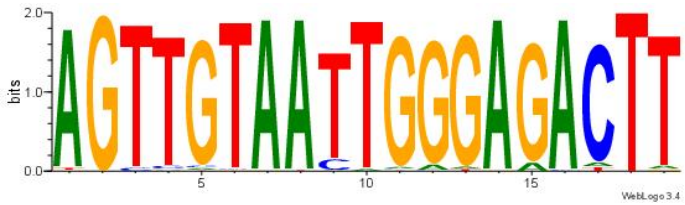

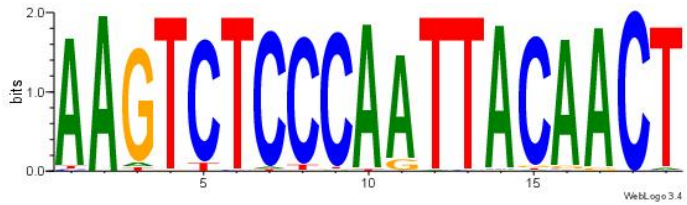

Dataset #: 1 **Motif ID: 5** **Motif name: Motif 5**

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Best Matches for Motif ID 5 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0355603

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
------CCTCRGCCTCC---
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

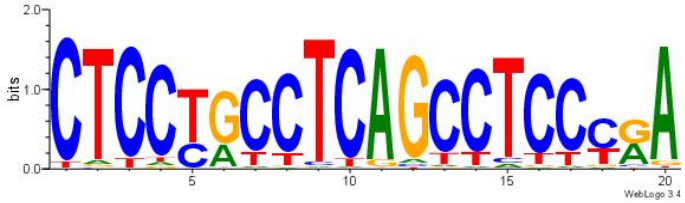

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

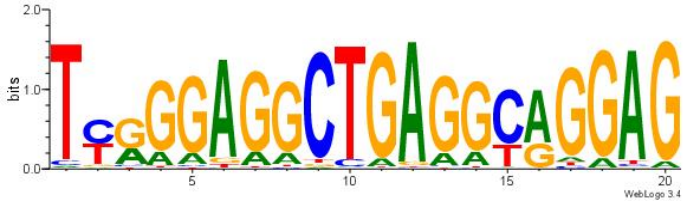

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0494199

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CCTCRGCCTCC--------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

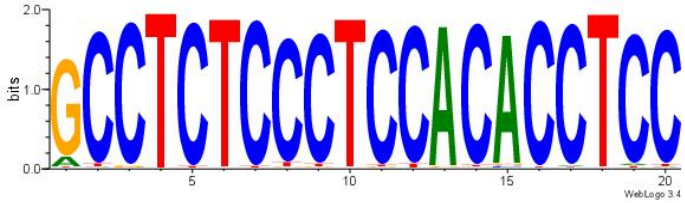

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

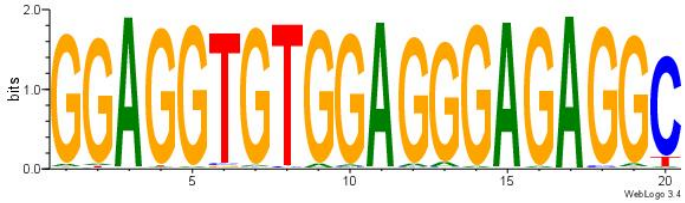

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0544617

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-CCTCRGCCTCC--------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

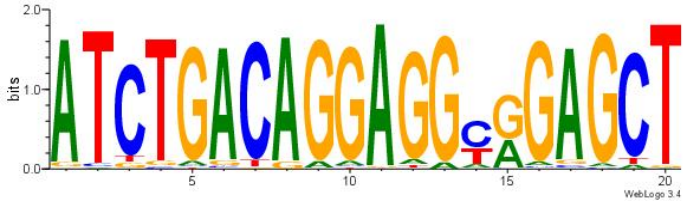

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

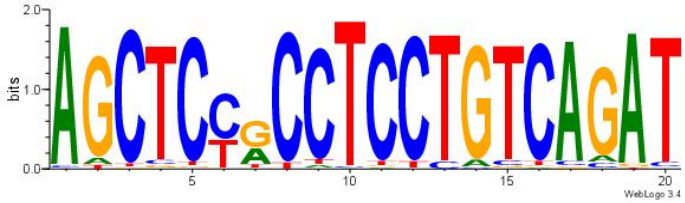

Dataset #:	1
Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 11
Similarity score: 0.0616596

Alignment:
AGCCTAGGCCTAC
--CCTCRGCCTCC

Original motif Consensus sequence: AGCCTAGGCCTAC

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

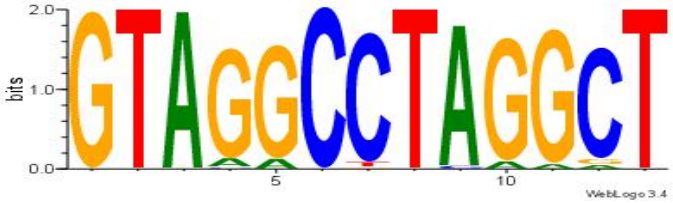

Dataset #: 1
Motif ID: 47
Motif name: Motif 47
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0620118

Alignment:
GCCTCAGTTTCCY
-CCTCRGCCTCC-

Original motif Consensus sequence: GCCTCAGTTTCCY

Reverse complement motif Consensus sequence: MGGAAACTGAGG

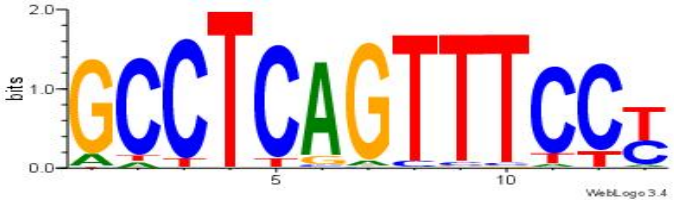

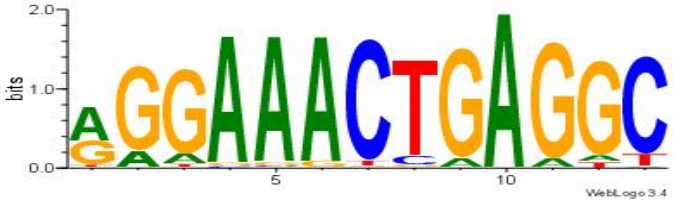

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0623031

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-------CCTCRGCCTCC--
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

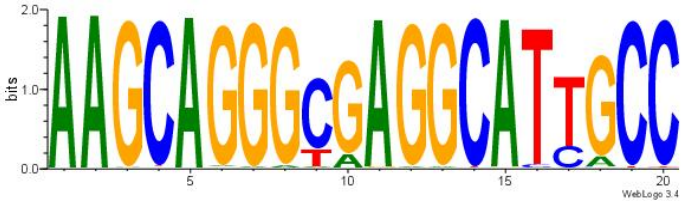

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

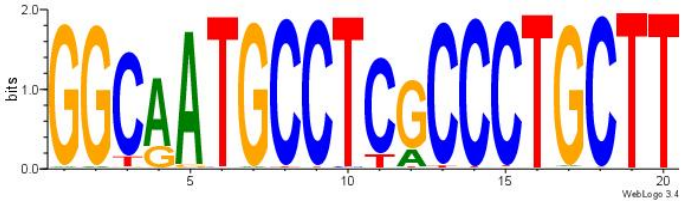

Dataset #:	1

Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0674714

Alignment:

```
GGATGGTGAGGGC
GGAGGCKGAGG--
```

Original motif Consensus sequence: GCCCTCACCATCC

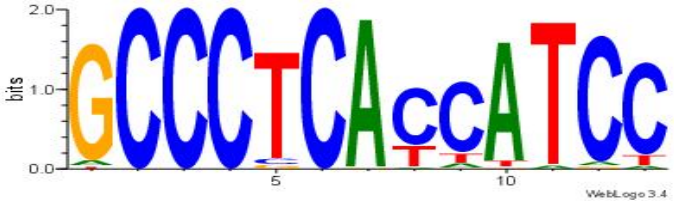

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

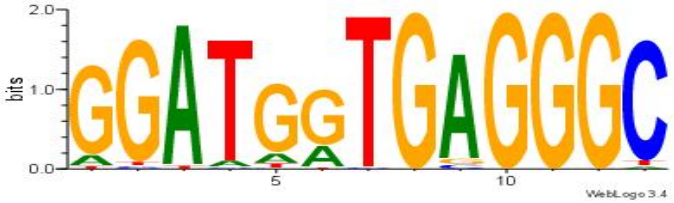

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0677215

Alignment:
ATGTGGAGGTGGAAGACAGT
----GGAGGCKGAGG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

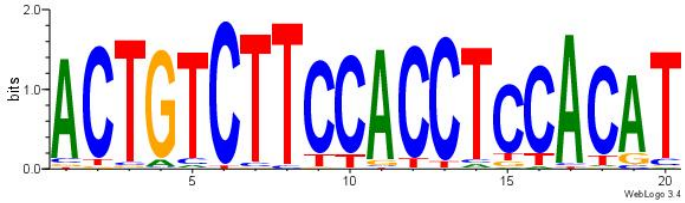

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

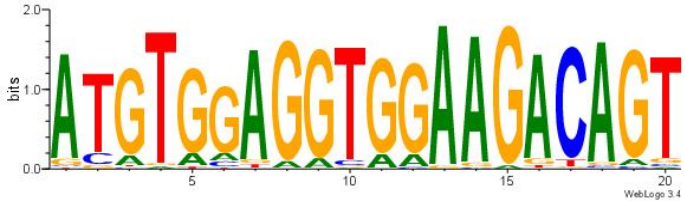

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0686145

Alignment:
GGCTGCGGAGGGTGTA
GGAGGCKGAGG-----

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence:
TACACCCTCCGCAGCC

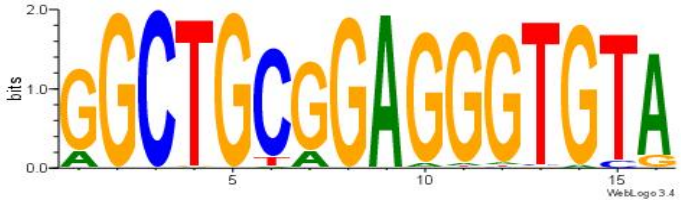

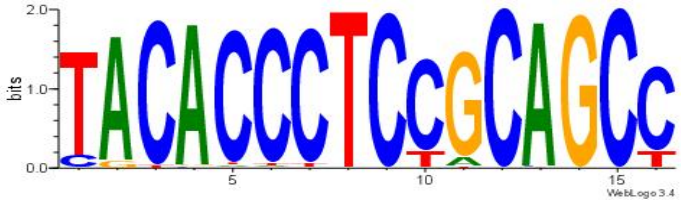

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0694256

Alignment:

```
TCTCTGAGCCTCAGTT
--CCTCRGCCTCC---
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

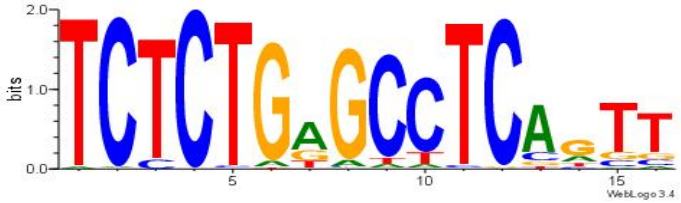

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

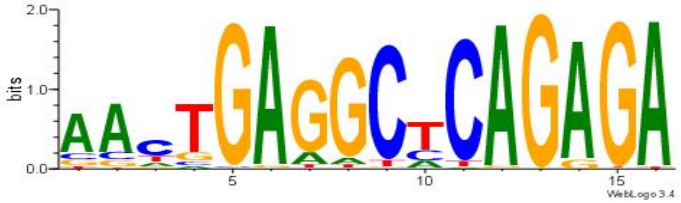

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0694873

Alignment:

```
GTGTCCCCTTCCTCCC
----CCTCRGCCTCC-
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

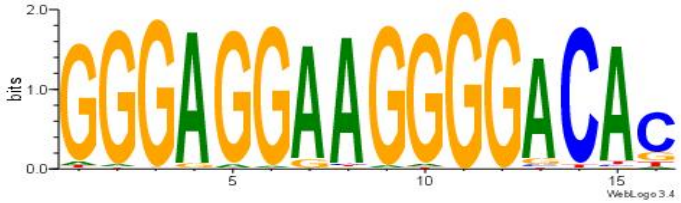

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

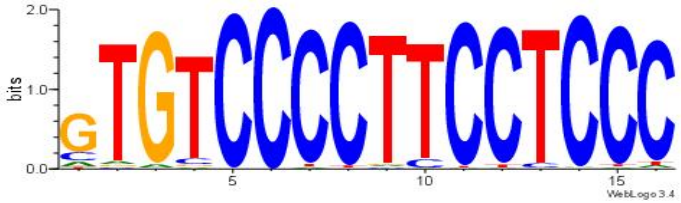

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0696777

Alignment:
KCCGGGCCTTAGCTGCCTTC
------CCTCRGCCTCC---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

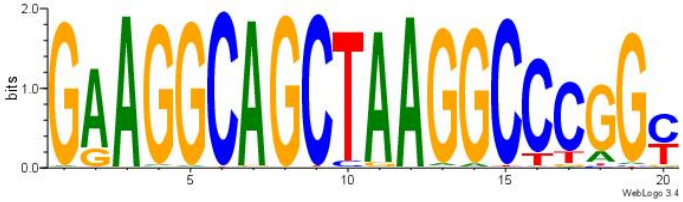

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

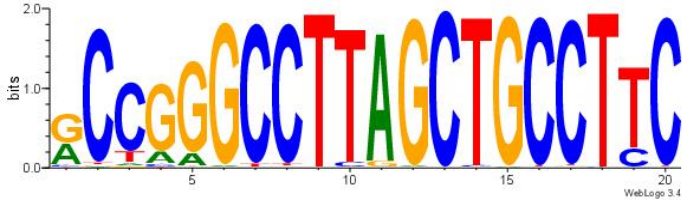

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0701512

Alignment:
CCTTGGCCAGCCCAGAAAG
CCTCRGCCTCC--------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

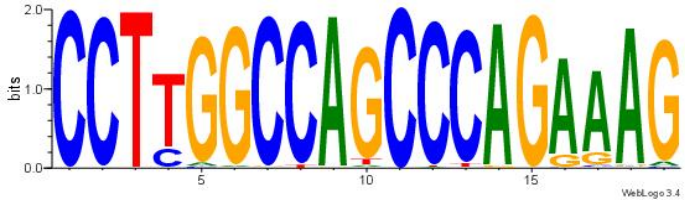

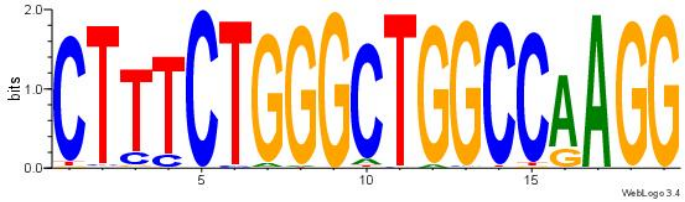

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0717546

Alignment:

```
VCCDCCTCCKCCTCCTC
----CCTCRGCCTCC--
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

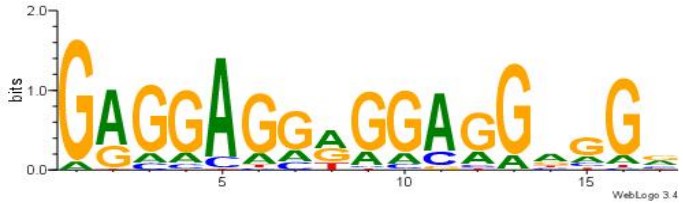

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

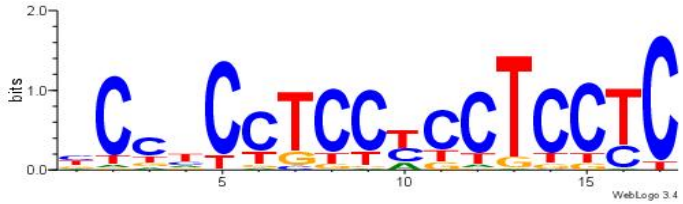

Dataset #: 1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.072751

Alignment:

```
CCTTTGACTCCATGTC
CCTCRGCCTCC-----
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

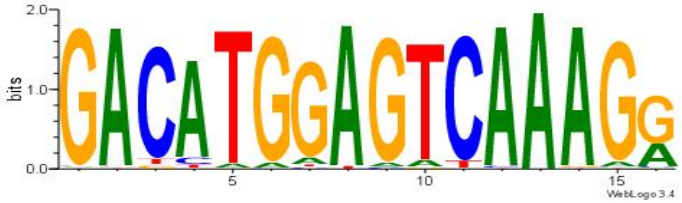

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

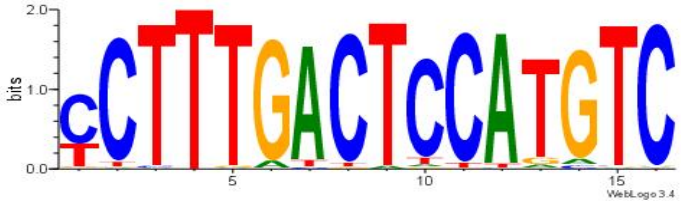

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0768198

Alignment:
CCTCCGTGGGCTCC
---CCTCRGCCTCC

Original motif Consensus sequence: CCTCCGTGGGCTCC

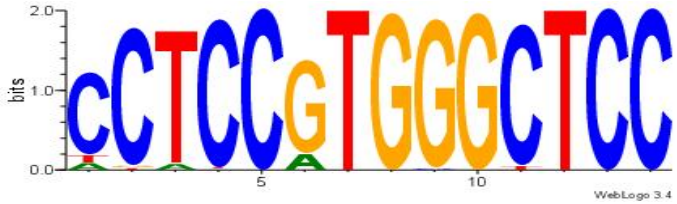

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

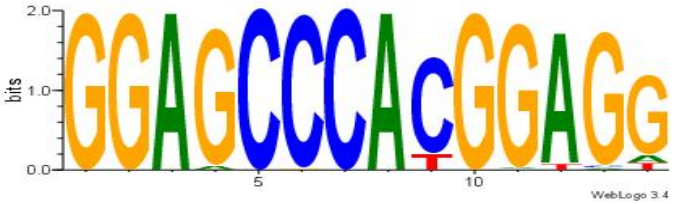

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0787956

Alignment:
ACTCAGCCCRCCTGCACCC
CCTCRGCCTCC--------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

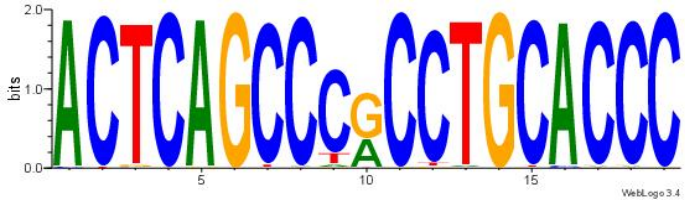

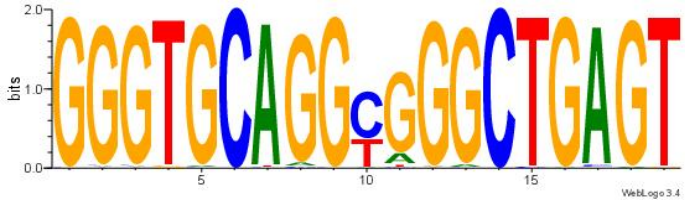

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0791471

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-------CCTCRGCCTCC-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

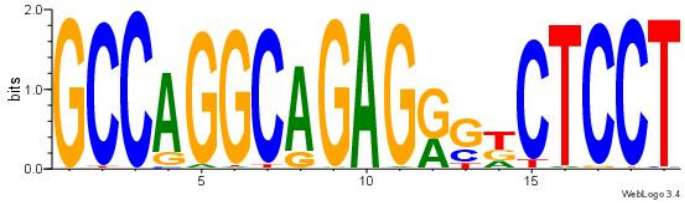

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

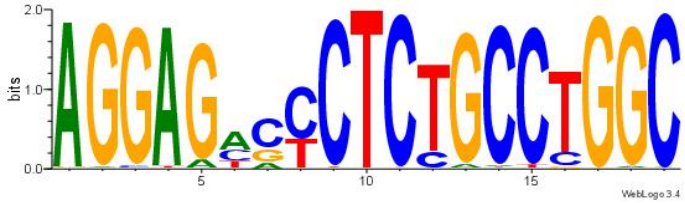

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0792781

Alignment:

```
TCACKMGGGAAGCGCAAG
-------GGAGGCKGAGG
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

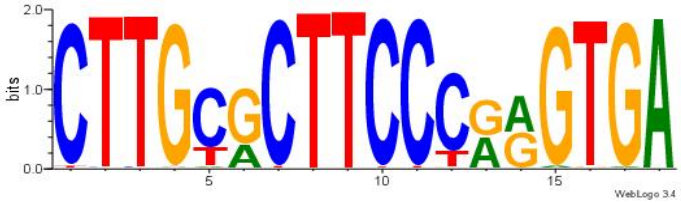

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

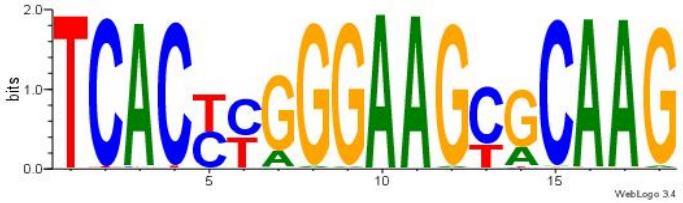

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0798606

Alignment:
CCATGGCGTCC
CCTCRGCCTCC

Original motif Consensus sequence: CCATGGCGTCC

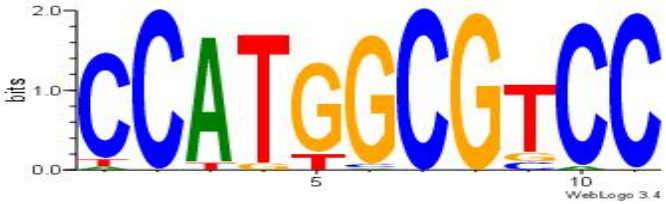

Reverse complement motif Consensus sequence: GGACGCCATGG

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0800185

Alignment:
GTCCCATCGACCACCCAAG
----CCTCRGCCTCC----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

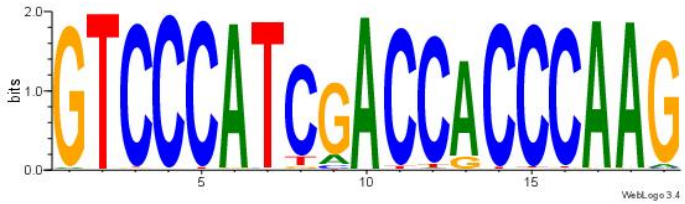

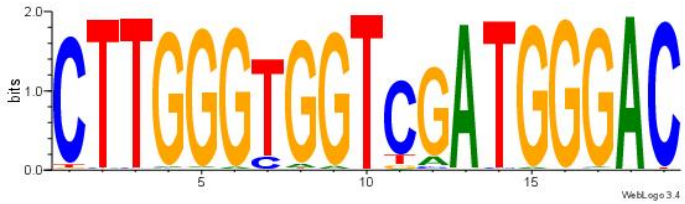

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0816697

Alignment:

```
CCTCCCAGCCGCCT
--CCTCRGCCTCC-
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

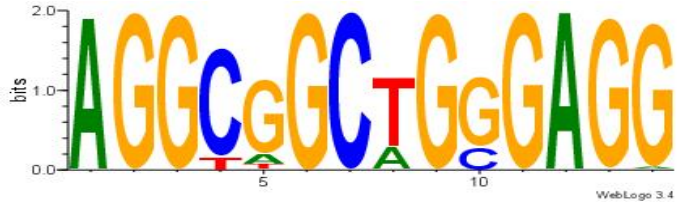

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	92

Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0818216

Alignment:

```
GGTGGGGGGGTCAGCCCCC
--------CCTCRGCCTCC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

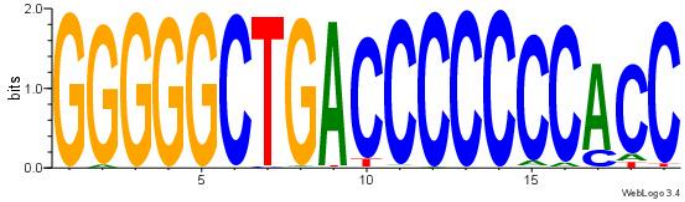

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

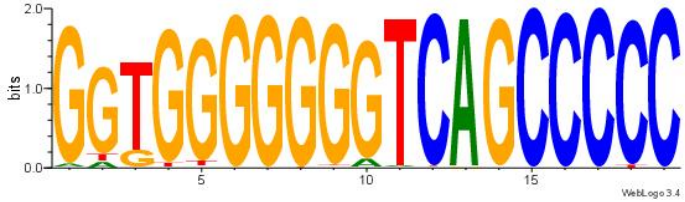

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0853488

Alignment:
CTCCCAGCCGCCTG
-CCTCRGCCTCC--

Original motif Consensus sequence: CAGGCGGCTGGGAG

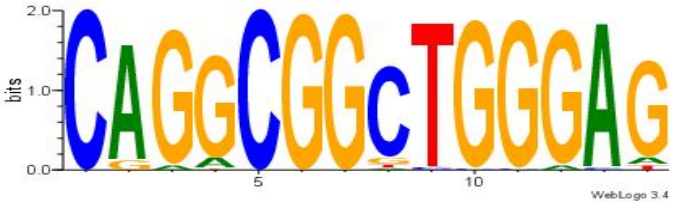

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

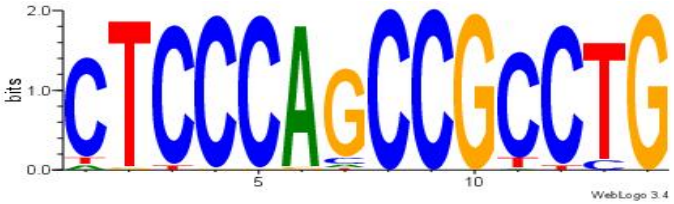

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0868186

Alignment:
CCCACGCCCACCCGGAACT
-CCTCRGCCTCC-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

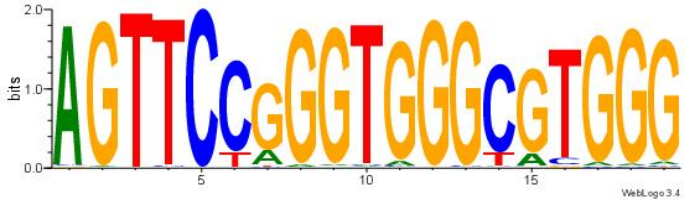

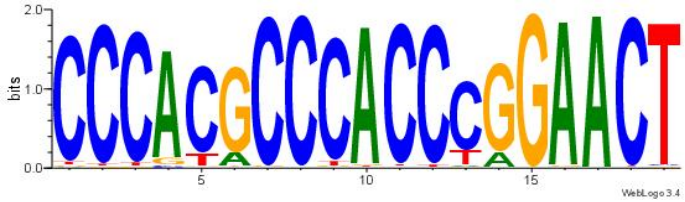

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0879518

Alignment:

```
CTASAACCTCCA
CCTCRGCCTCC-
```

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

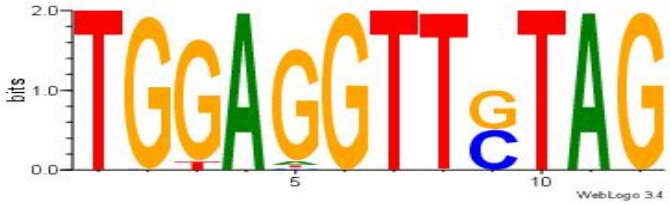

Dataset #:	1
Motif ID:	62

Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0906873

Alignment:

```
GTAGACKGGAGCTGTTCCT
GGAGGCKGAGG--------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

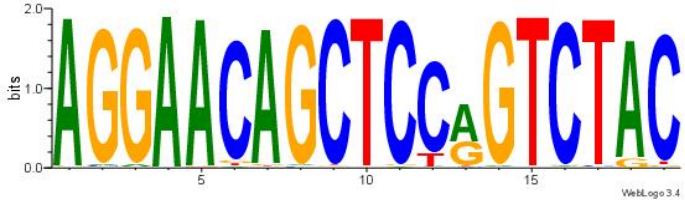

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

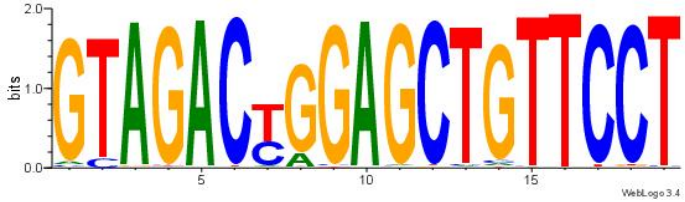

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0907657

Alignment:
CTCCTGCCTCAGCY
CCTCRGCCTCC---

Original motif Consensus sequence: CTCCTGCCTCAGCY

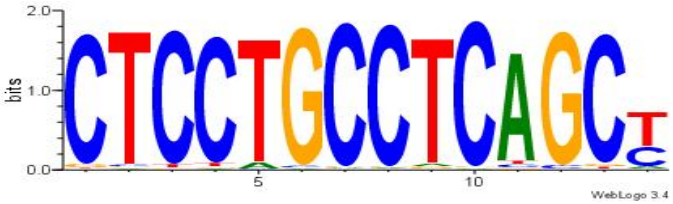

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

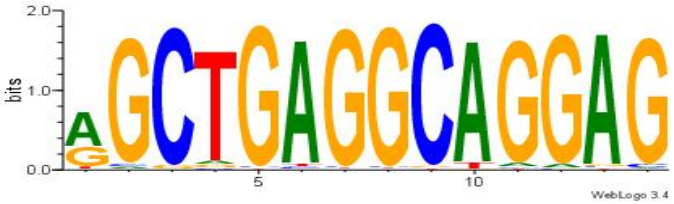

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0909909

Alignment:
AGACAGTGGGYGCAGGHCA
-----GGAGGCKGAGG---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

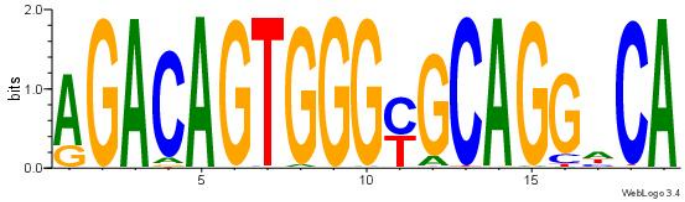

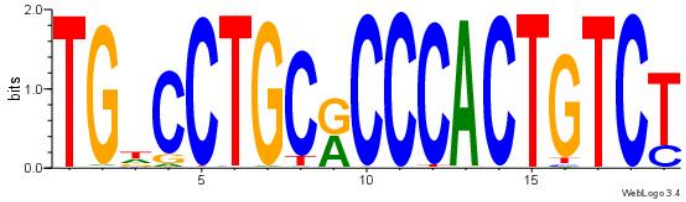

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0916479

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CCTCRGCCTCC---------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

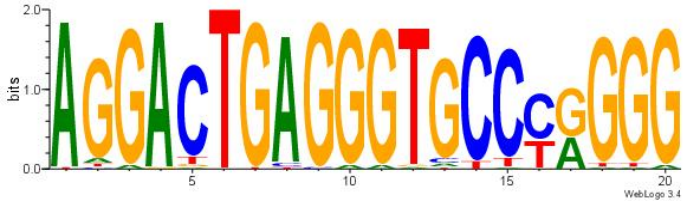

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

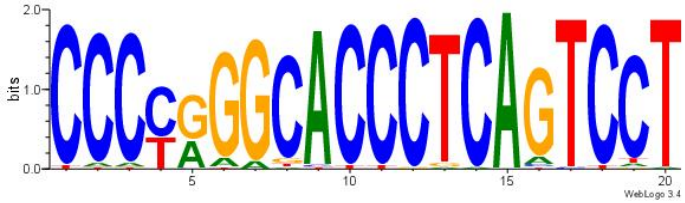

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0937656

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CCTCRGCCTCC---------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

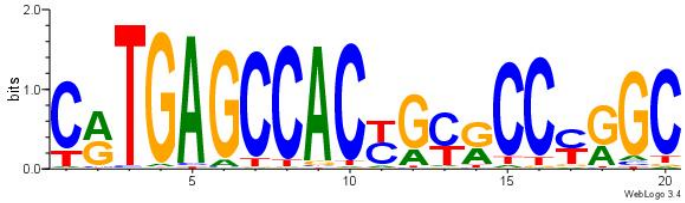

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

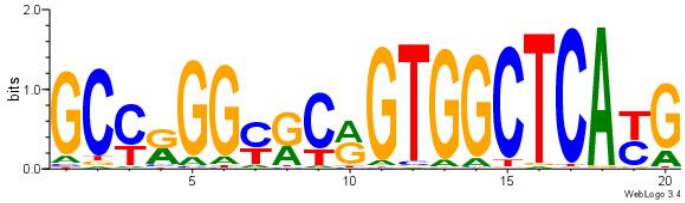

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0937804

Alignment:
GCCKCCCCGTCCGGGAGGGA
-CCTCRGCCTCC--------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

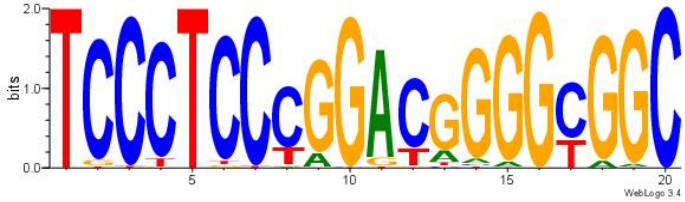

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

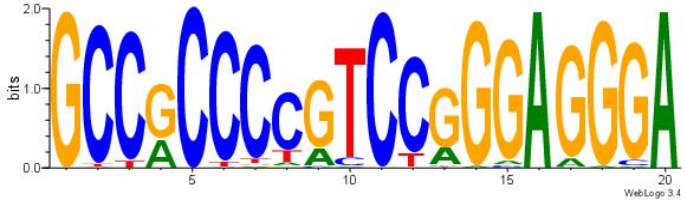

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0941397

Alignment:
TTGAGGAGGCAGTCTG
----GGAGGCKGAGG-

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

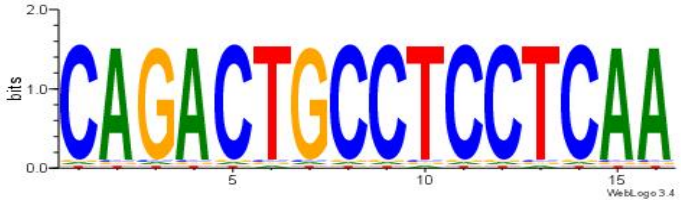

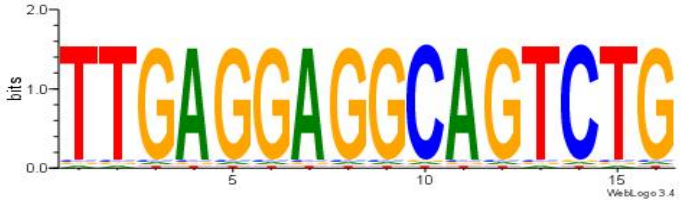

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0942309

Alignment:

```
GGGRSCACAGGAGCD
GGAGGCKGAGG----
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

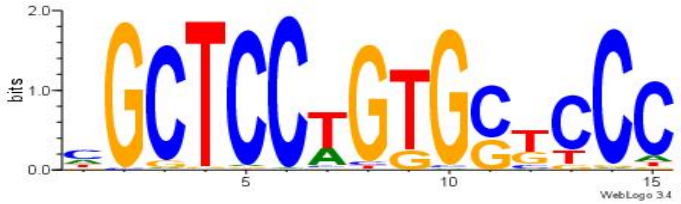

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

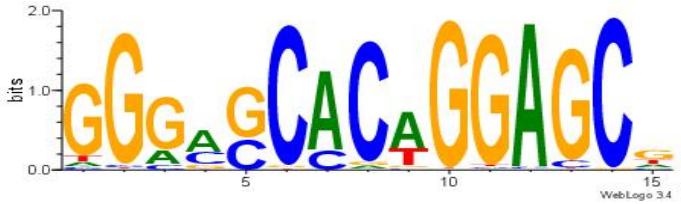

Dataset #: 1

Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0966567

Alignment:

```
GGRRMCAGATGT
GGAGGCKGAGG-
```

Original motif Consensus sequence: ACATCTGYMMCC

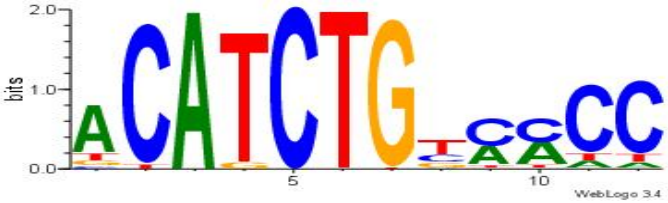

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0970211

Alignment:
CTGGGCTCCTGAGTCTGGTG
-------CCTCRGCCTCC--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

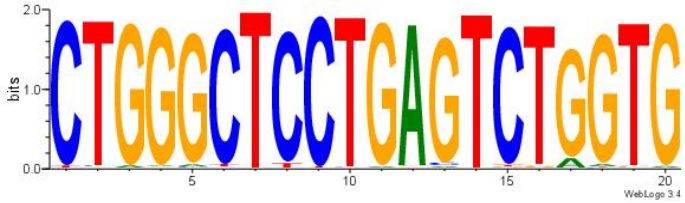

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

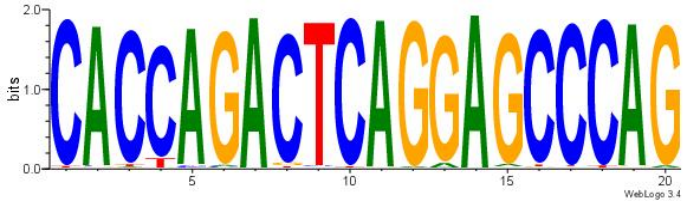

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0971187

Alignment:
GCTTAGCACCYGGGCCAGC
--------CCTCRGCCTCC

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

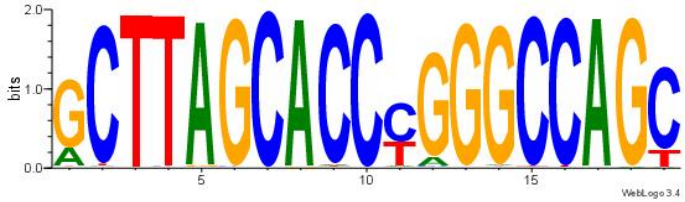

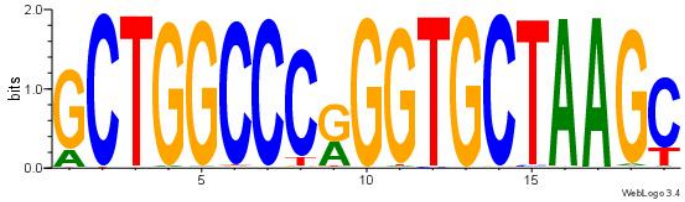

Dataset #:	1
Motif ID:	22
Motif name:	Motif 22
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0971199

Alignment:

```
ATCTCAGACKRY
-CCTCRGCCTCC
```

Original motif Consensus sequence: ATCTCAGACKRY

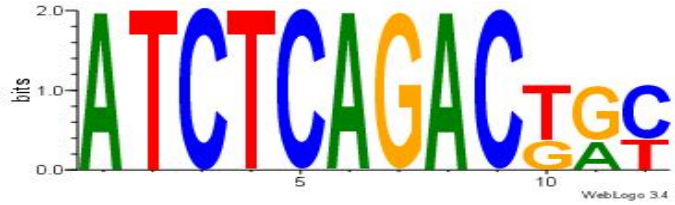

Reverse complement motif Consensus sequence: KMRGTCTGAGAT

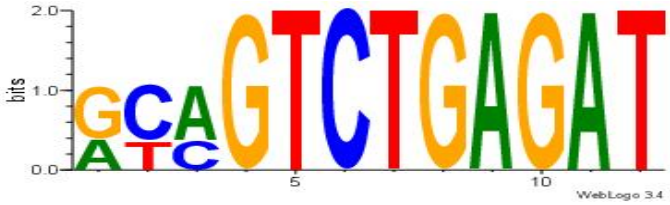

Dataset #:	1
Motif ID:	365

Motif name:	Motif 365
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0986098

Alignment:

```
AGCTCCGGTCTAC
--CCTCRGCCTCC
```

Original motif Consensus sequence: AGCTCCGGTCTAC

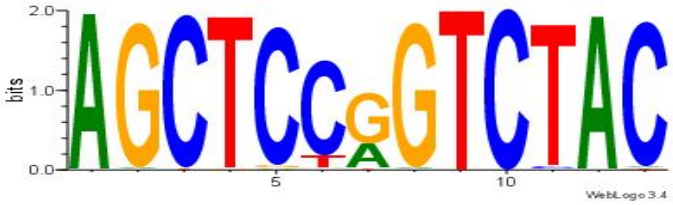

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

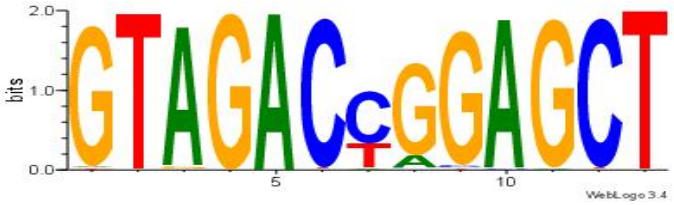

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0990733

Alignment:
GGRCKCACWGGAGC
GGAGGCKGAGG---

Original motif Consensus sequence: GCTCCWGTGYGKCC

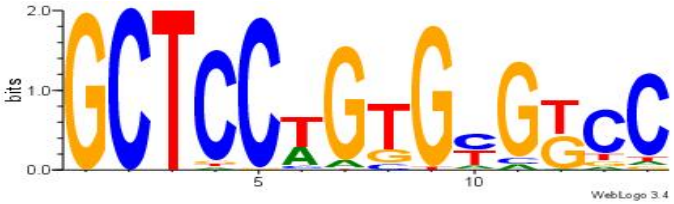

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.101315

Alignment:
ATGGACAYTTRGGTTGHTTC
--GGAGGCKGAGG-------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

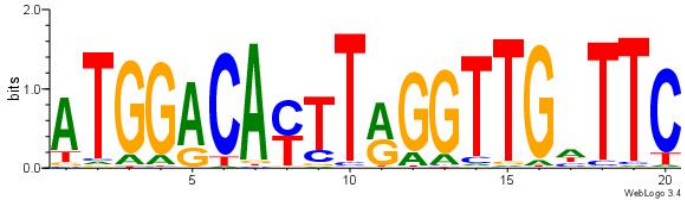

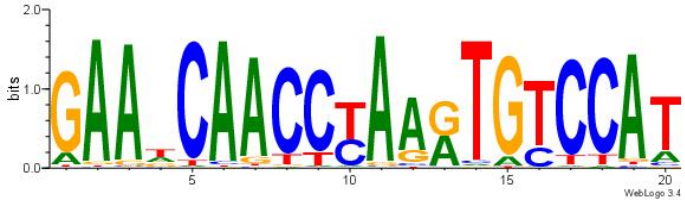

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.101529

Alignment:

```
CATGGCGGGCTGCAGGTC
----GGAGGCKGAGG---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

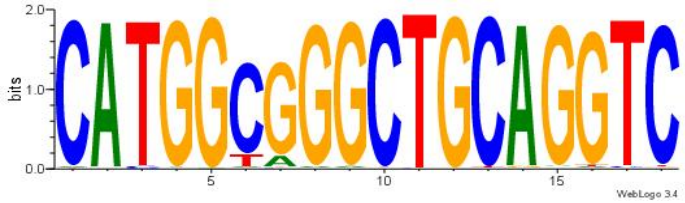

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

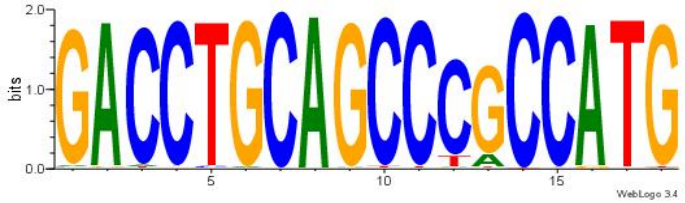

Dataset #: 1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.101752

Alignment:

```
AGGAGCGCCTCTKCCCGGC
-------CCTCRGCCTCC-
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

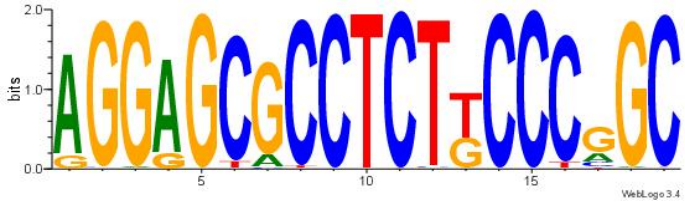

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

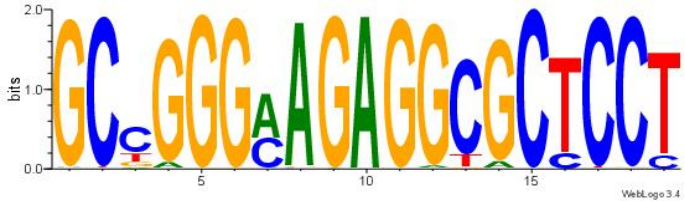

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.101897

Alignment:
CTGTTTGCCTGGGTATCA
-------CCTCRGCCTCC

Original motif Consensus sequence: TGATACCCAGGCAAACAG

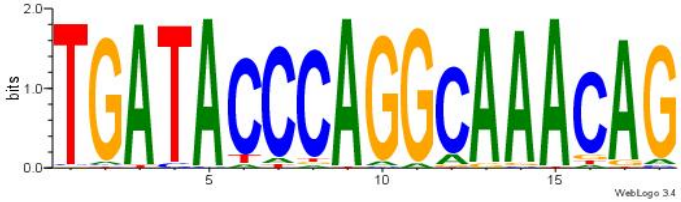

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

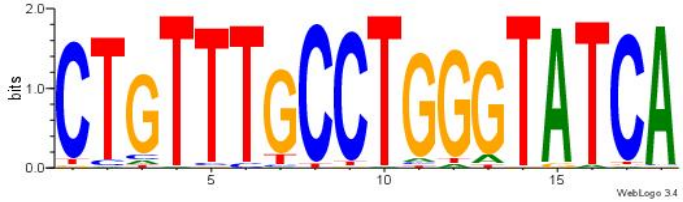

Dataset #: 1
Motif ID: 259
Motif name: Motif 259
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.102065

Alignment:
CCCACACCCTTATTA
-CCTCRGCCTCC---

Original motif Consensus sequence: CCCACACCCTTATTA

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

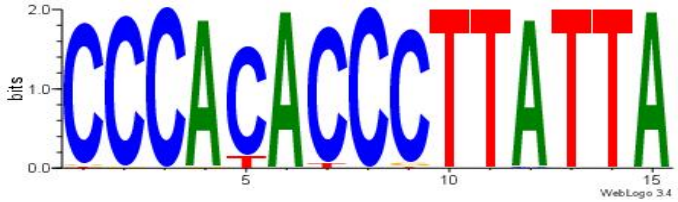

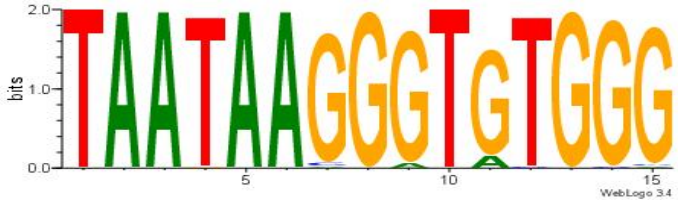

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.102205

Alignment:
GCGMGCGGGAACCGGGGCT
-------GGAGGCKGAGG-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

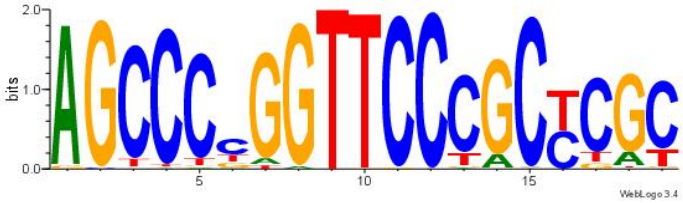

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

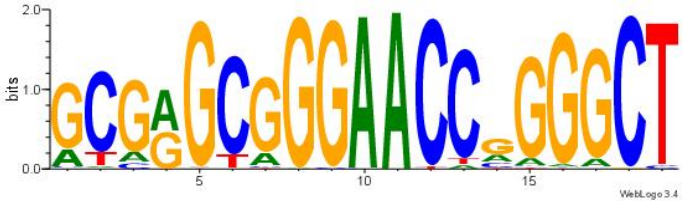

Dataset #: 1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.10237

Alignment:

```
TACCTGAGACTGGGTAATTT
--CCTCRGCCTCC-------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

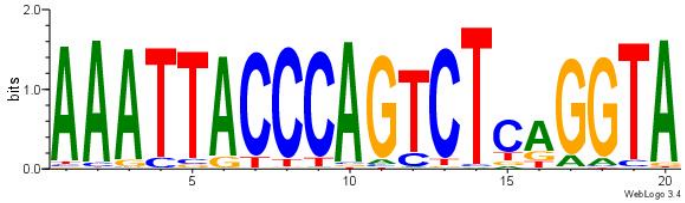

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

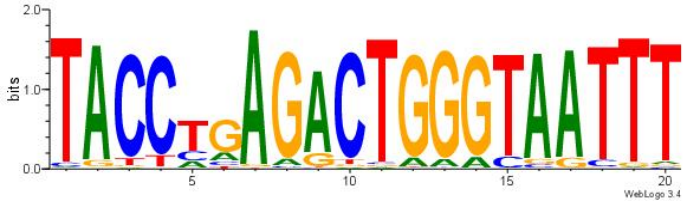

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.10239

Alignment:
GGGAGGGATATATTAGC
-GGAGGCKGAGG-----

Original motif Consensus sequence: GGGAGGGATATATTAGC

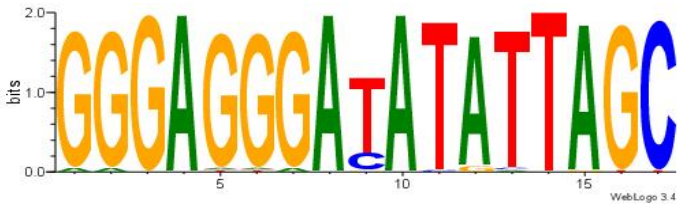

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

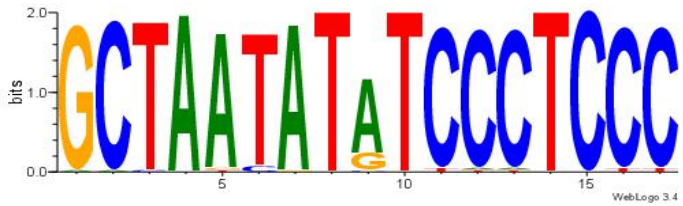

Dataset #: 1
Motif ID: 1
Motif name: Motif 1
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.102575

Alignment:
GGGGTGACAGABGB
-GGAGGCKGAGG--

Original motif Consensus sequence: GGGGTGACAGABGB

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

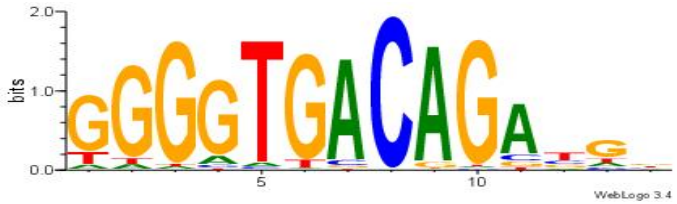

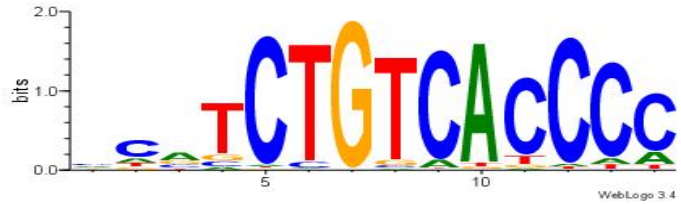

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.103257

Alignment:

```
TAMGACCTCAGGTCCTCAG
-----CCTCRGCCTCC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

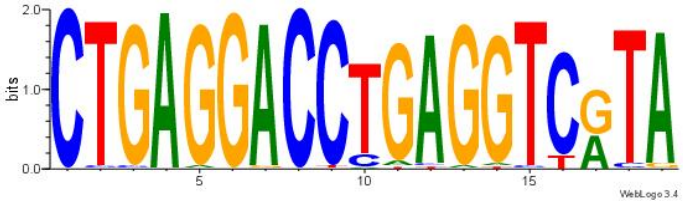

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

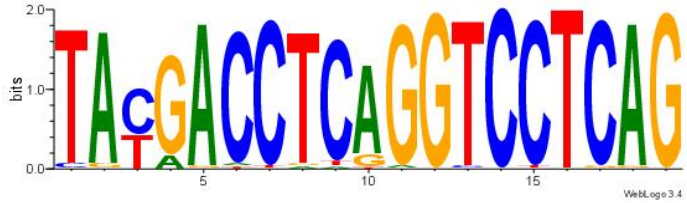

Dataset #: 1 Motif ID: 6 Motif name: Motif 6

Original motif Consensus sequence: GCTCACTGCAASCTC

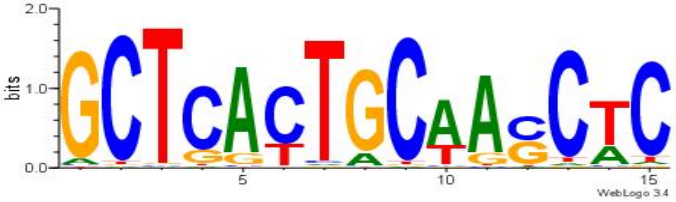

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

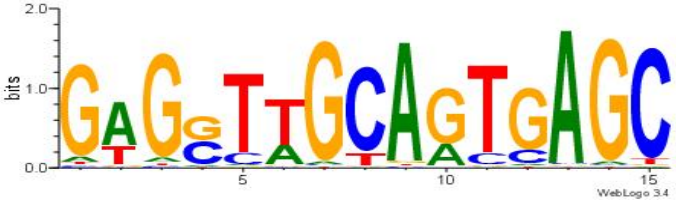

Best Matches for Motif ID 6 (Highest to Lowest)

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.0768829

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-----GAGSTTGCAGTGAGC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

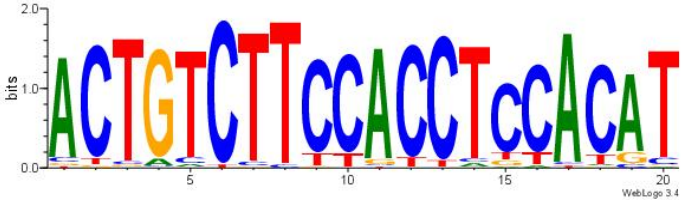

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

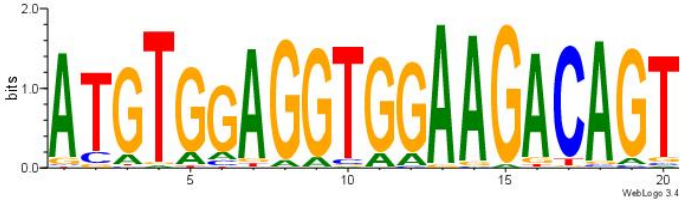

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0774202

Alignment:

```
AAGACCTTCCAGTGGGACAA
--GAGSTTGCAGTGAGC---
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

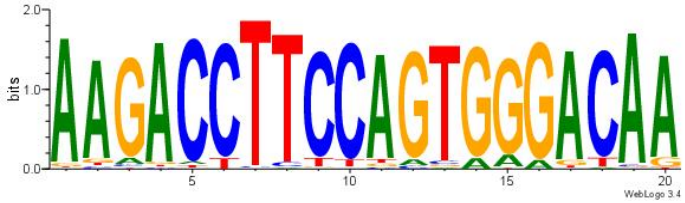

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

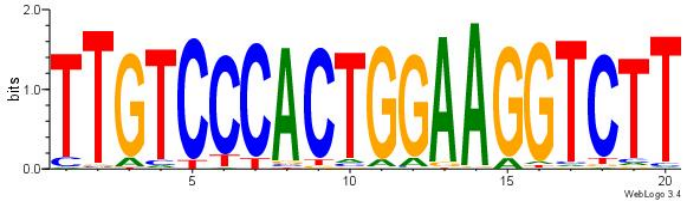

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 15
Similarity score: 0.0892327

Alignment:
AWTKKTGGTTKCCAGKGGCT
----GAGSTTGCAGTGAGC-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

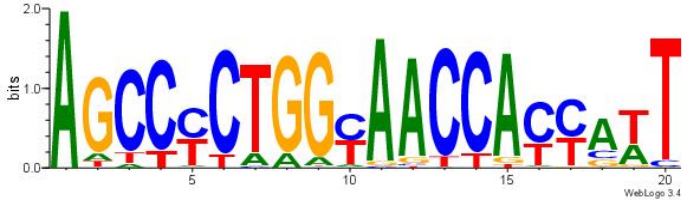

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

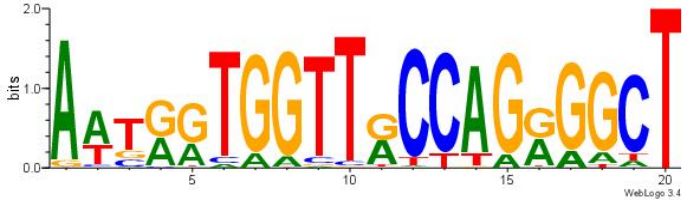

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.0907441

Alignment:
TGCTCACACAAAGCCTGT
-GCTCACTGCAASCTC--

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

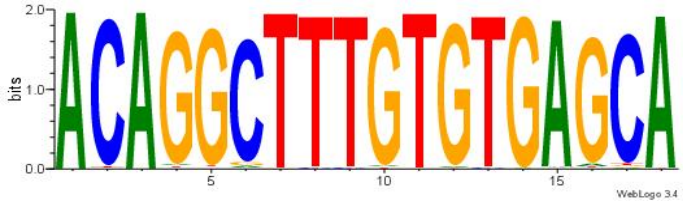

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

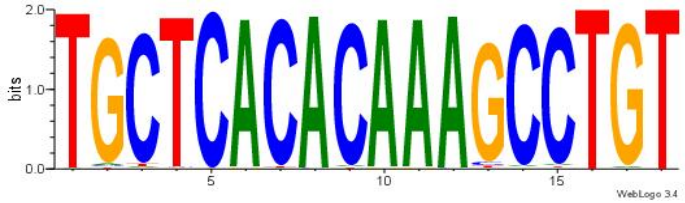

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.091144

Alignment:

```
CCCCGGGCAGTGAGGG
GAGSTTGCAGTGAGC-
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

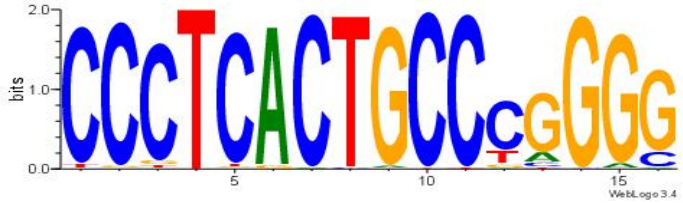

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

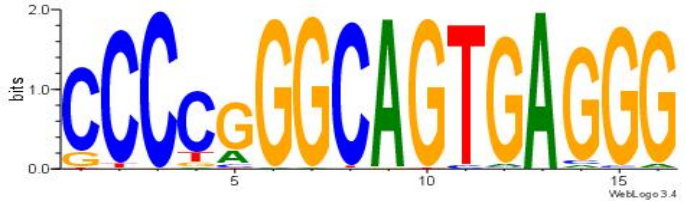

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0930573

Alignment:

```
AAGAGGTTTAATTGRCTCA
--GAGSTTGCAGTGAGC--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

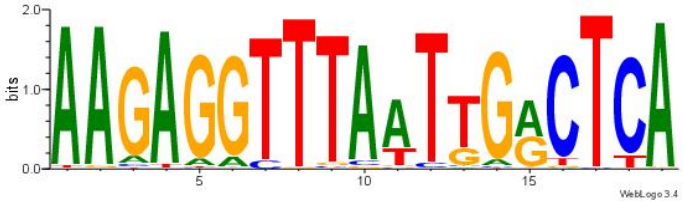

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

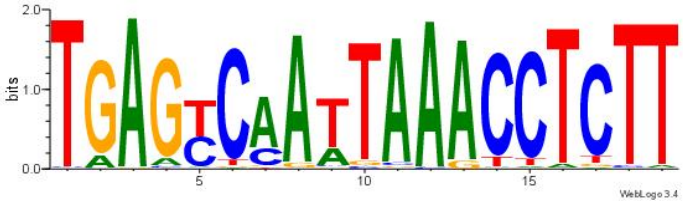

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.0936233

Alignment:
AGCAGYTTGGAAACACT
-GCTCACTGCAASCTC-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

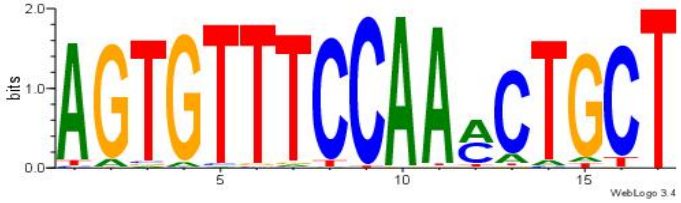

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

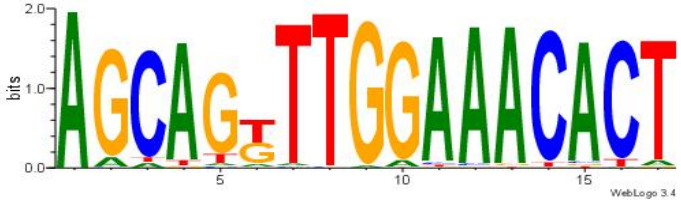

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.0940527

Alignment:
GTAACACTCACCGCGARGGT
-----GCTCACTGCAASCTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

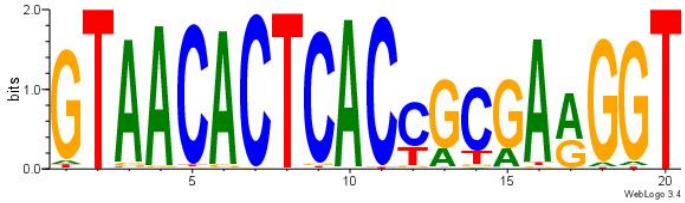

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

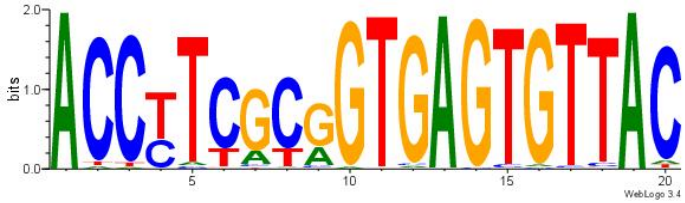

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0947937

Alignment:

```
CCCTGCTAGAACCTCCAA
GCTCACTGCAASCTC---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

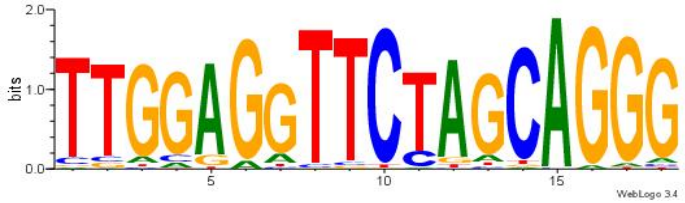

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.096199

Alignment:

```
CGTCGCTCACGCTGGGAGCT
----GAGSTTGCAGTGAGC-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

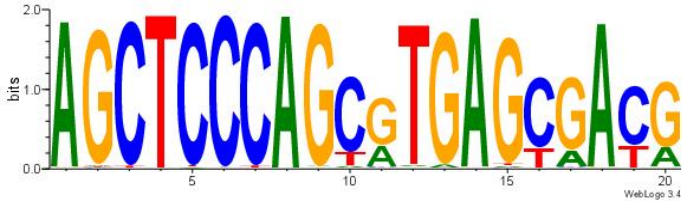

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

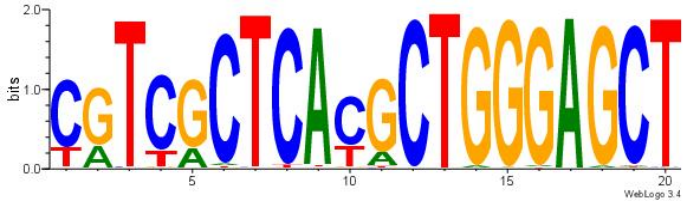

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.0977348

Alignment:
CTCCTGCCTCAGCCTCCCRA
-GCTCACTGCAASCTC----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

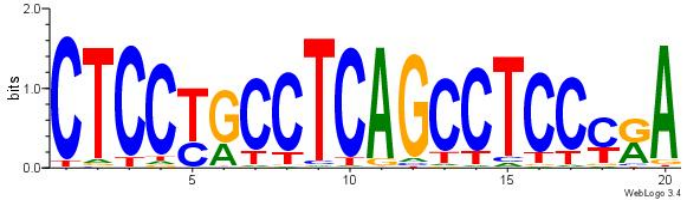

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

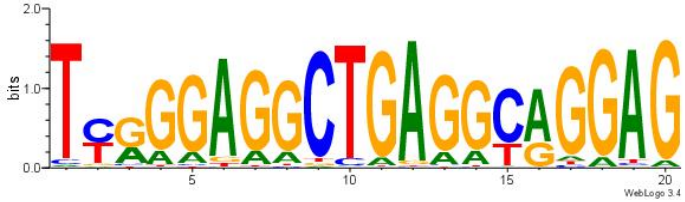

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.0989349

Alignment:
AAGCTCGAACTGGGTGGAGC
GAGSTTGCAGTGAGC-----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

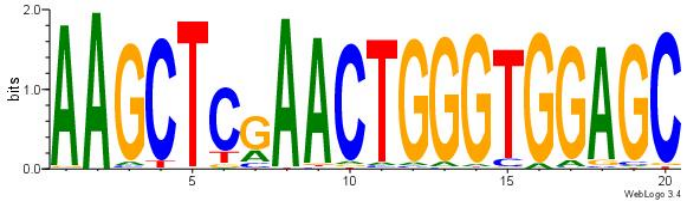

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

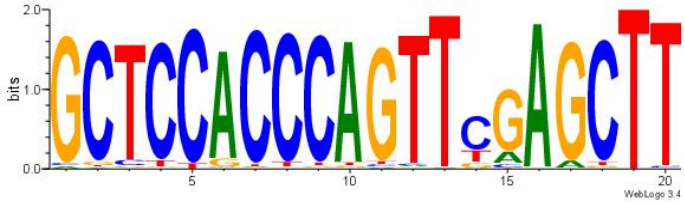

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.099408

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-----GCTCACTGCAASCTC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

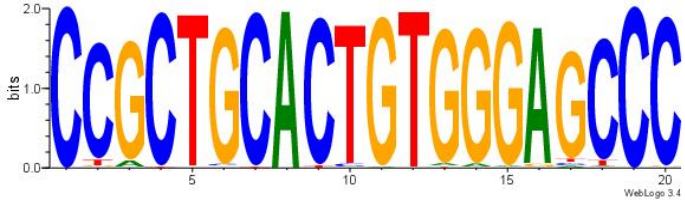

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

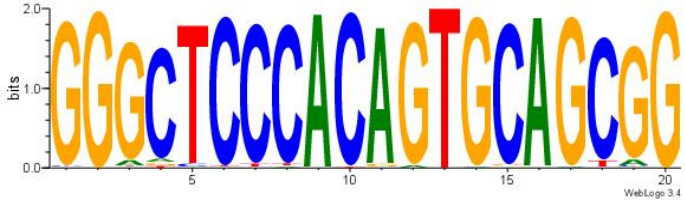

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.100475

Alignment:

```
GACTGGCAGGCAGCTCCACC
-GCTCACTGCAASCTC----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

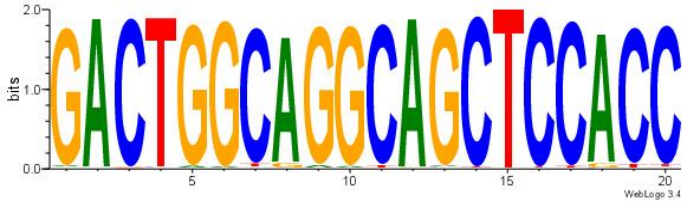

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

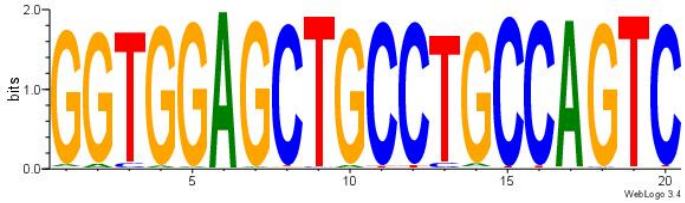

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.101084

Alignment:
ATGGCTGAATAKTATTCCAT
---GCTCACTGCAASCTC--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

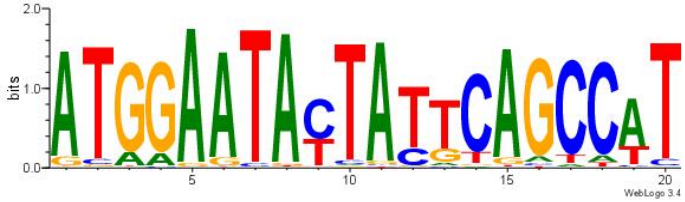

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

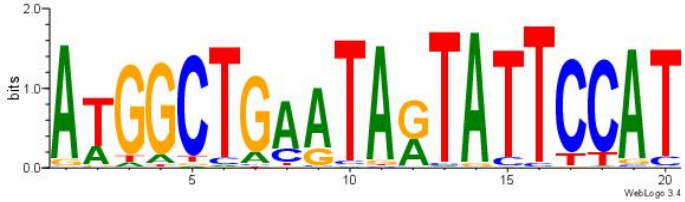

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.101185

Alignment:
AAGGAACAAACTCCRGACAC
-----GCTCACTGCAASCTC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

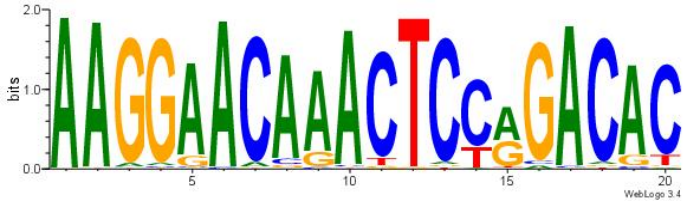

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

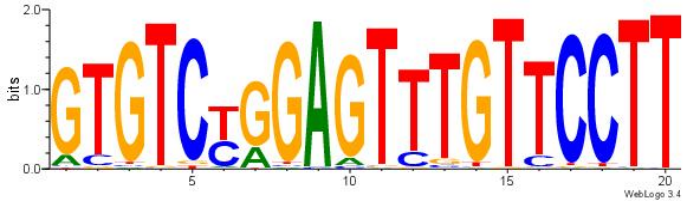

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.101561

Alignment:

```
AGGCTGTTTTACAGTTAAC
----GAGSTTGCAGTGAGC
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

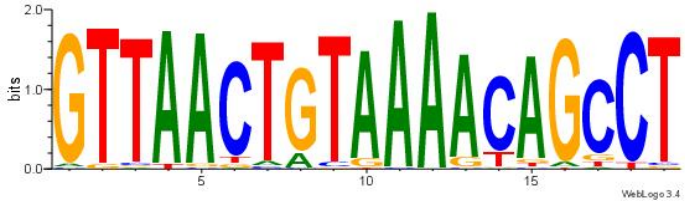

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

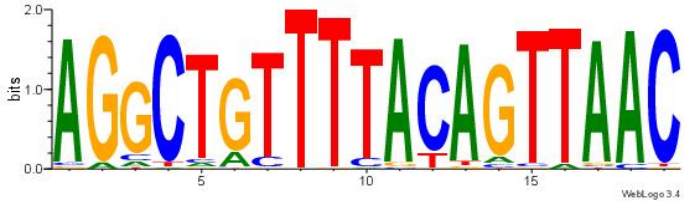

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.10231

Alignment:

```
GAAACTGCTTTGTGATGTGT
GAGSTTGCAGTGAGC-----
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

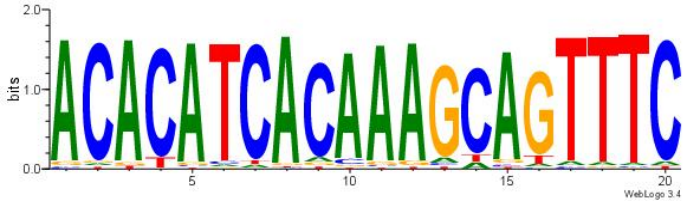

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

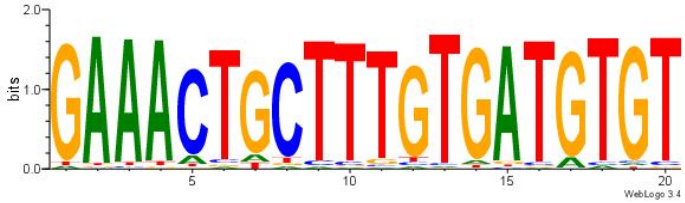

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.103716

Alignment:
GCTAATATATCCCTCCC
GCTCACTGCAASCTC--

Original motif Consensus sequence: GGGAGGGATATATTAGC

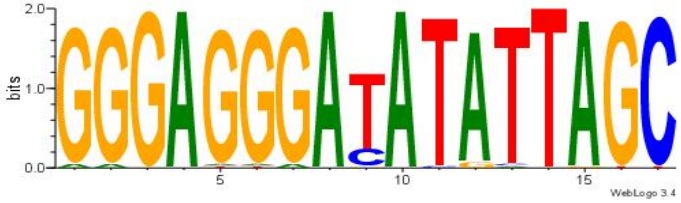

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

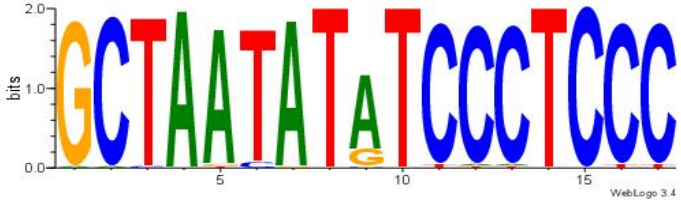

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.103776

Alignment:
CAACATGGATGRARCTGGAG
GAGSTTGCAGTGAGC-----

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

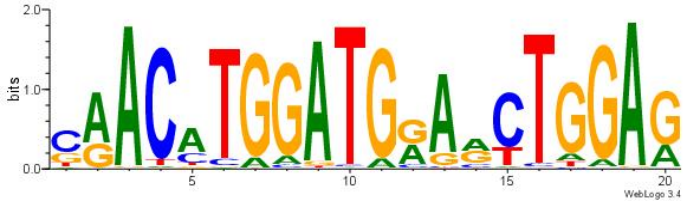

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

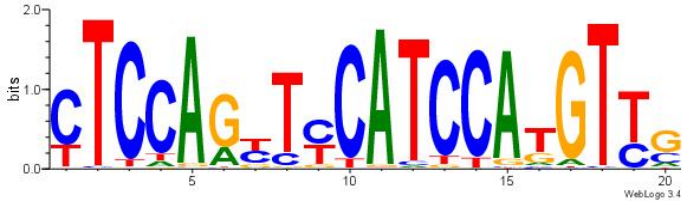

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.104045

Alignment:

```
GCGMGCGGGAACCGGGGCT
GCTCACTGCAASCTC----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

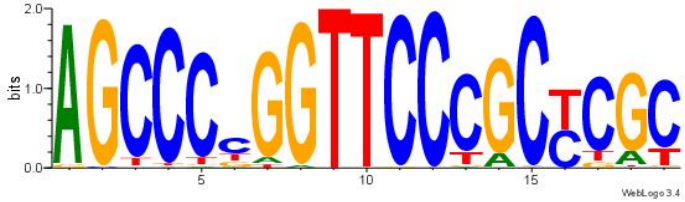

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

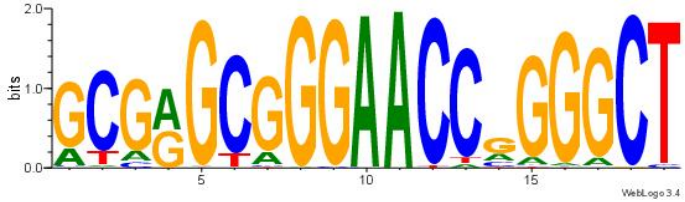

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.104091

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--GAGSTTGCAGTGAGC---
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

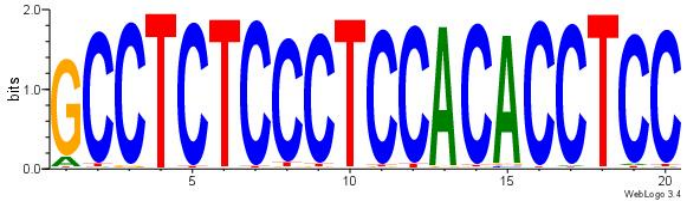

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

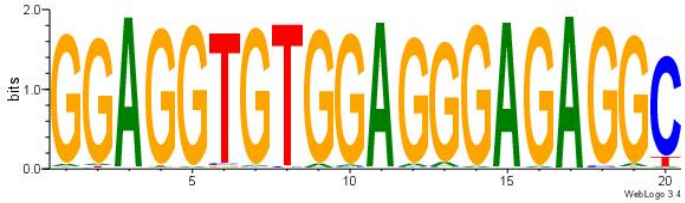

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 15
Similarity score: 0.104195

Alignment:
GGGAGGTGTCTCCCAGTCAG
--GAGSTTGCAGTGAGC---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

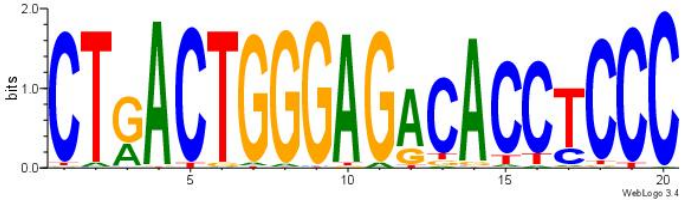

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

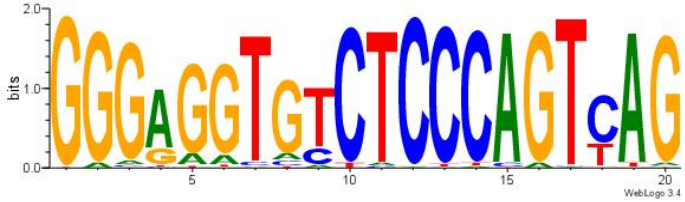

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.10482

Alignment:
AGAGCTCTGGCTGGCATCT
---GAGSTTGCAGTGAGC-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

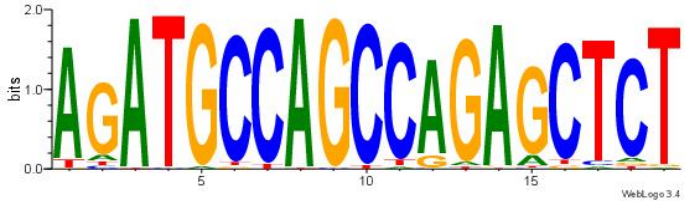

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

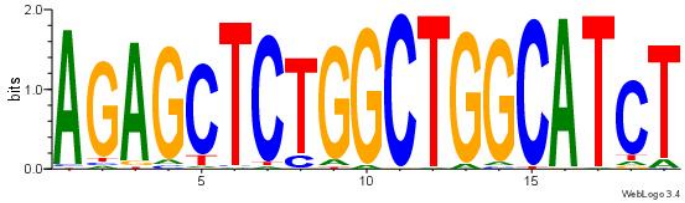

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.105383

Alignment:

```
GGGGGCTGACCCCCCCACC
----GCTCACTGCAASCTC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

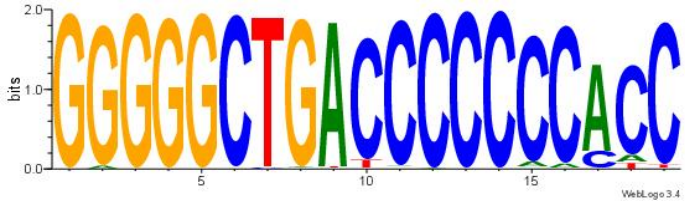

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

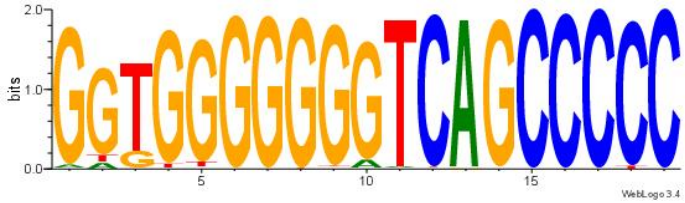

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.105548

Alignment:

```
GTTTAACCATTGAGGGCCAG
GAGSTTGCAGTGAGC-----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

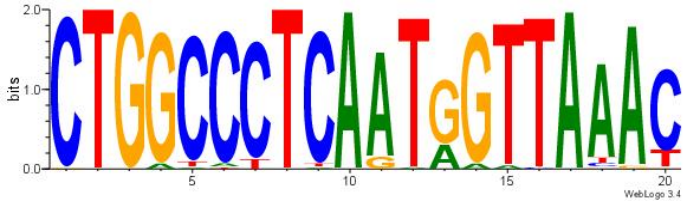

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

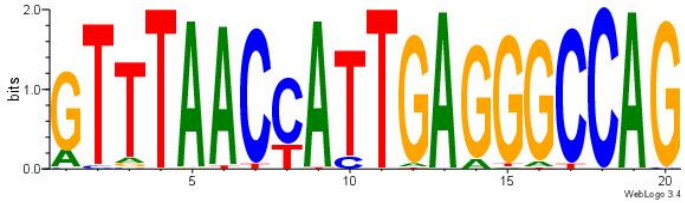

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.105674

Alignment:
GCCAATTTCTCCCATTTGGA
GCTCACTGCAASCTC-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

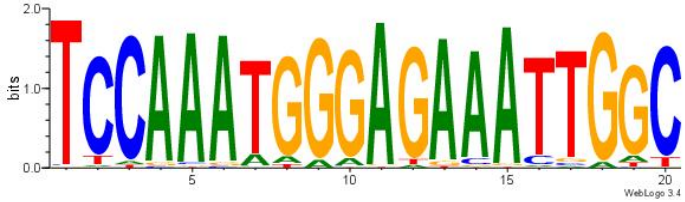

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

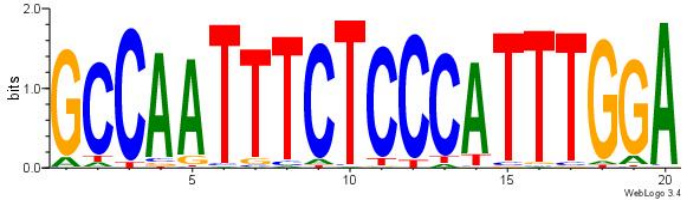

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.106482

Alignment:
TCKMGCCACTGCACTCCAGC
--GCTCACTGCAASCTC---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

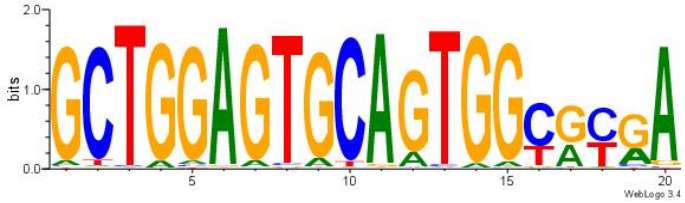

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

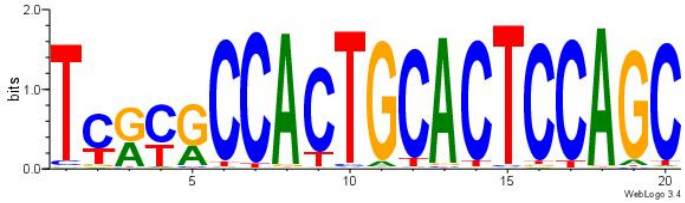

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.106771

Alignment:

```
TCACKMGGGAAGCGCAAG
GCTCACTGCAASCTC---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

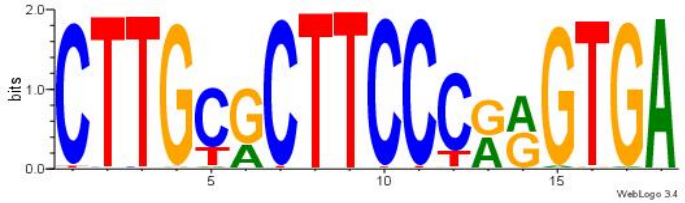

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

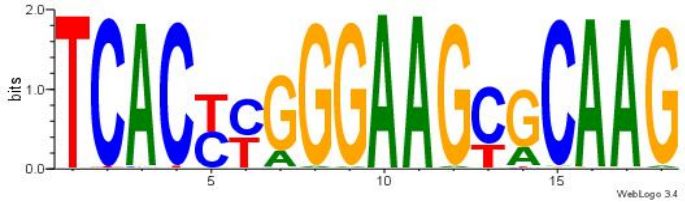

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.107186

Alignment:

```
HAGTGGKATTGCTGGATCAT
---GCTCACTGCAASCTC--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

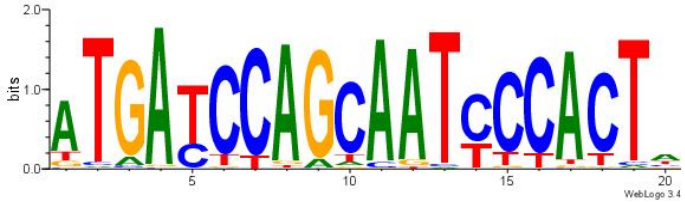

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

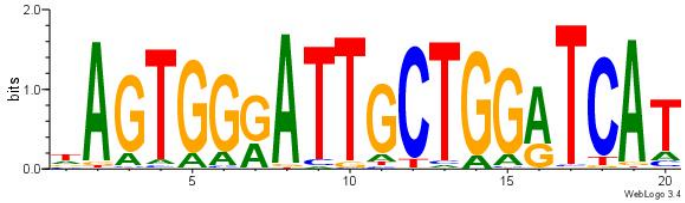

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.108628

Alignment:
GCTGGCCCGCAAGCGCCGCG
-GCTCACTGCAASCTC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

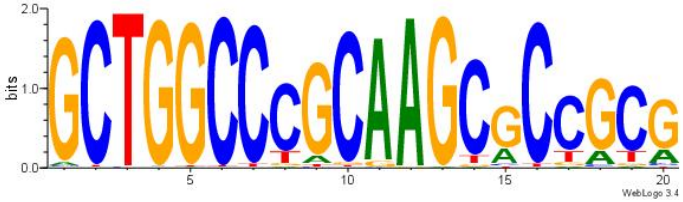

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

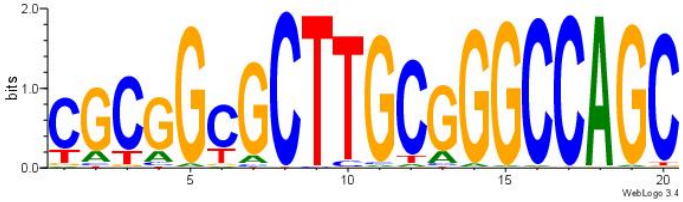

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.108785

Alignment:
AGGGCCTTTGCASWTGC
--GCTCACTGCAASCTC

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

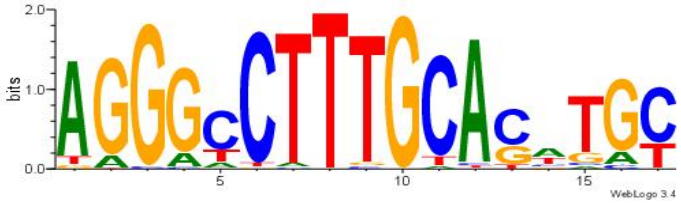

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

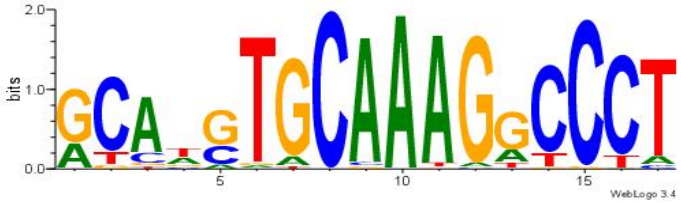

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.108999

Alignment:

```
CGGCGCTGMGCTCGATTTCT
----GCTCACTGCAASCTC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

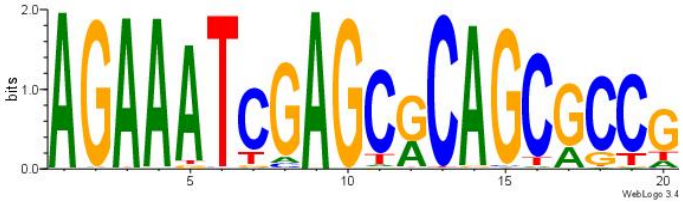

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

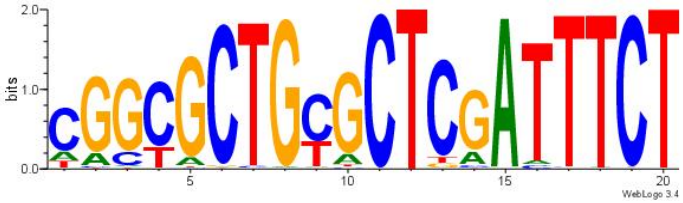

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.109734

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
--GAGSTTGCAGTGAGC---
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

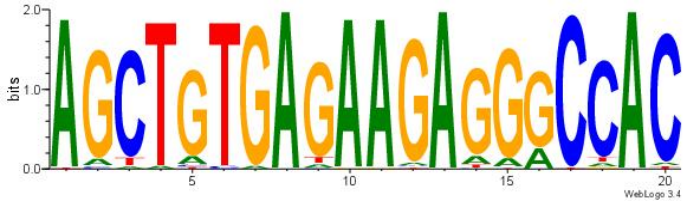

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

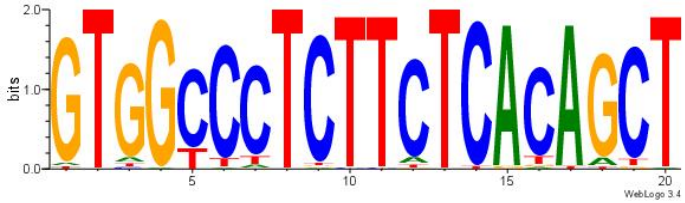

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.110166

Alignment:
AACCCTATTGTGAACTGYG
--GCTCACTGCAASCTC--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

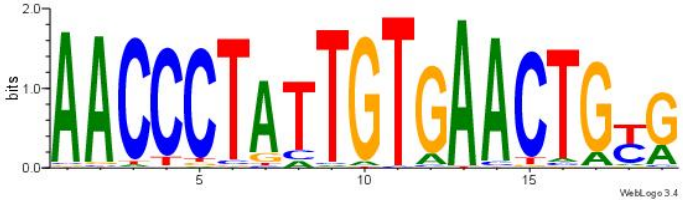

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

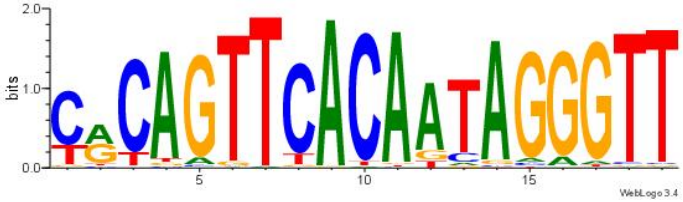

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.110285

Alignment:
ACCGAGMKMGCAGCTTCGGG
---GAGSTTGCAGTGAGC--

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

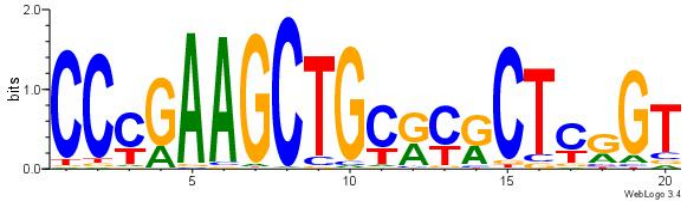

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

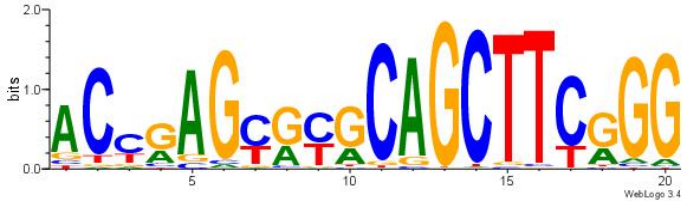

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.110285

Alignment:

```
CMGCTCCGAGTGCGG
GAGSTTGCAGTGAGC
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

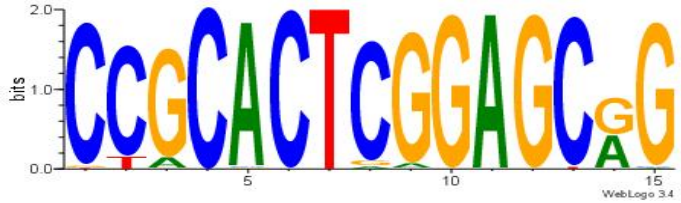

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

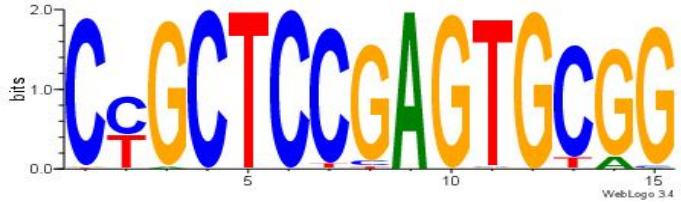

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.110488

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-----GAGSTTGCAGTGAGC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

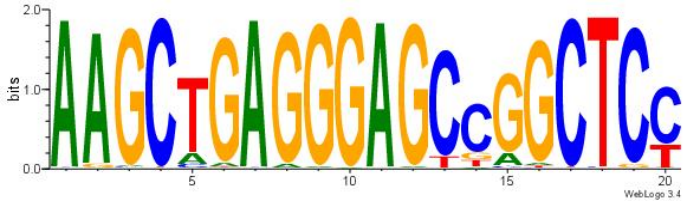

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

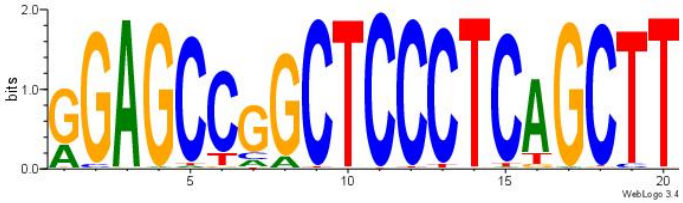

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 15
Similarity score: 0.110844

Alignment:
AGCTCMKCCTCCTGTCAGAT
----GAGSTTGCAGTGAGC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

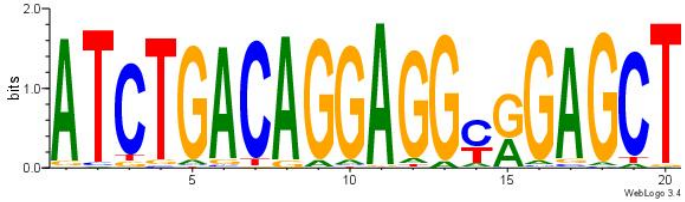

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

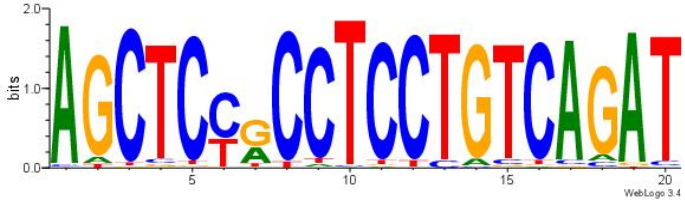

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.111004

Alignment:
GCAAAKGACATGATYTCATT
GCTCACTGCAASCTC-----

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

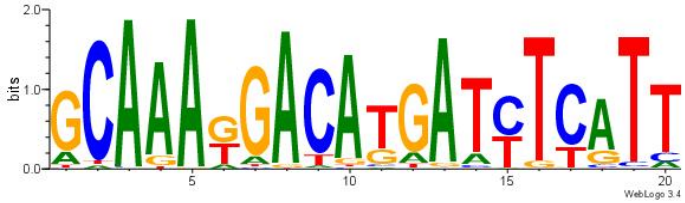

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

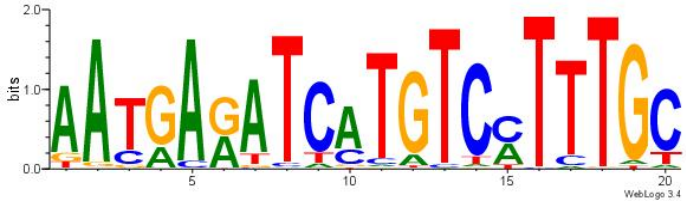

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.111633

Alignment:

```
TCTGGAGTGGACCTCCAGCA
----GAGSTTGCAGTGAGC-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

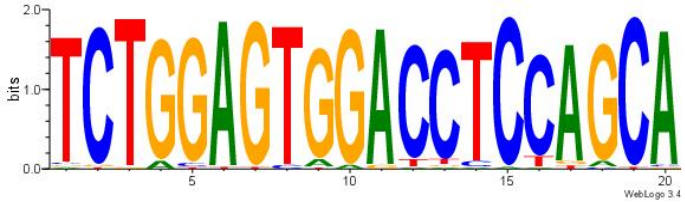

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

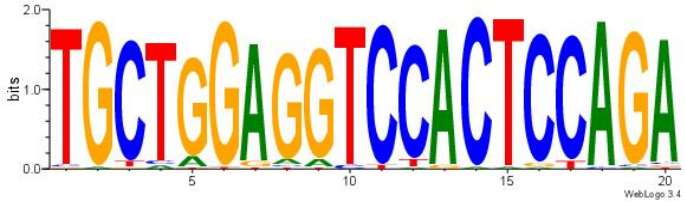

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.11196

Alignment:

```
GATCACGAGGTCAGGAG
GAGSTTGCAGTGAGC--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

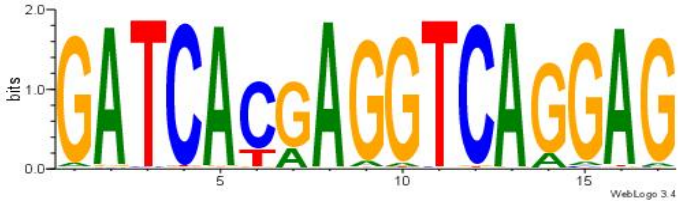

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

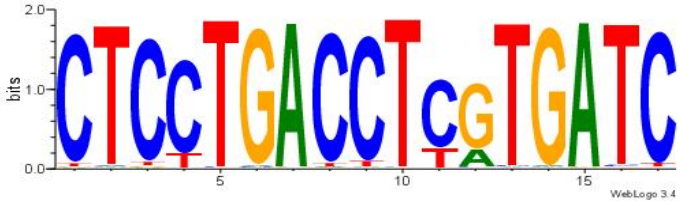

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.112734

Alignment:
ATCRCTTGAGSYCAGGAGKT
-GAGSTTGCAGTGAGC----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

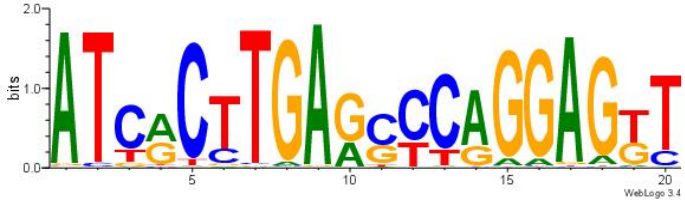

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

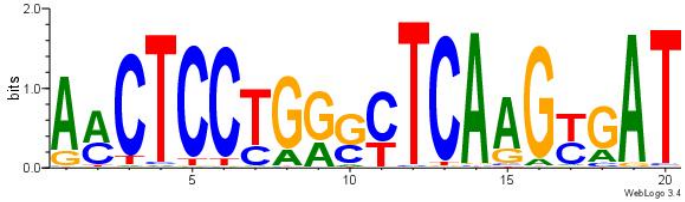

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.112782

Alignment:
GTGCCAGGCACTGTKCTARG
-GAGSTTGCAGTGAGC----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

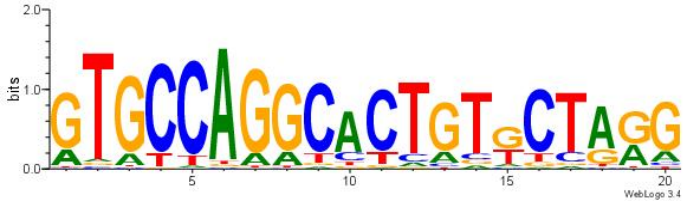

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

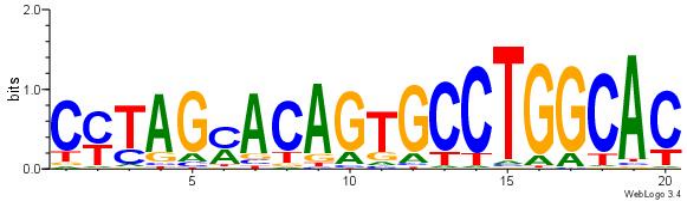

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.11347

Alignment:

```
GTKTMTATMTACCACATTTT
GCTCACTGCAASCTC-----
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

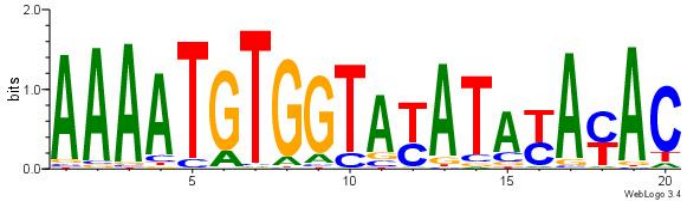

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

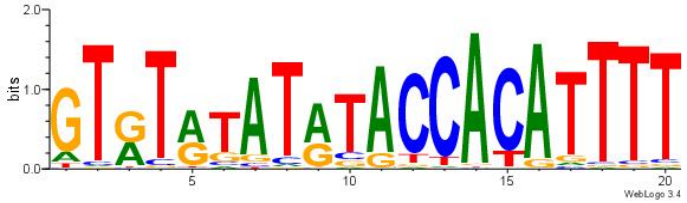

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.113725

Alignment:

```
GCTGTGTGACCTTGGGCAAG
--GAGSTTGCAGTGAGC---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

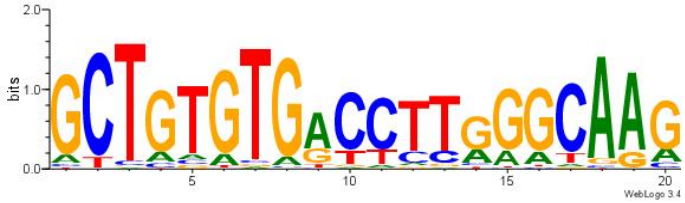

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

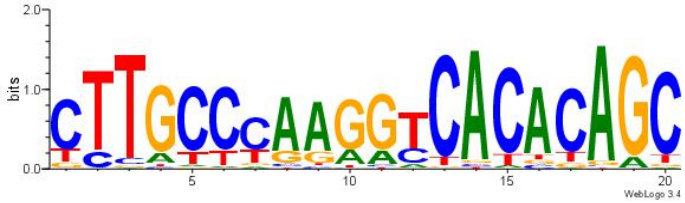

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.114101

Alignment:
TGATGGGTGCACCAAA
-GCTCACTGCAASCTC

Original motif Consensus sequence: TGATGGGTGCACCAAA

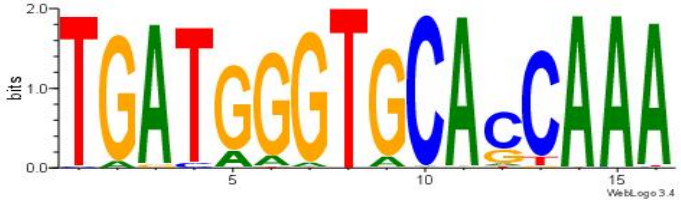

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

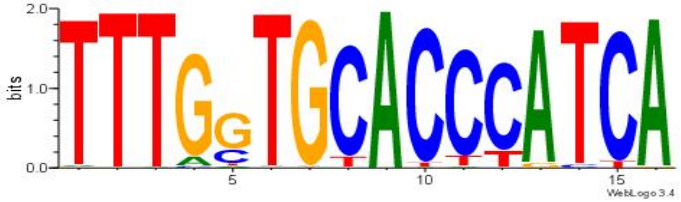

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.114263

Alignment:
GCCKGGMKCMGTGGCTCAKG
-GAGSTTGCAGTGAGC----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

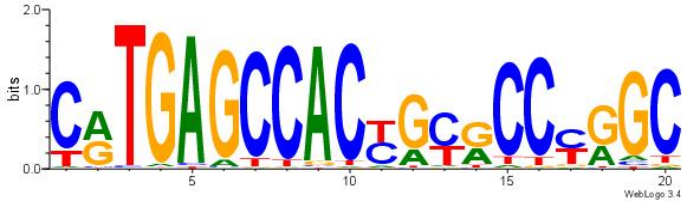

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

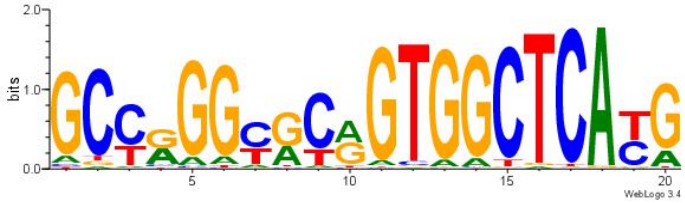

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.114872

Alignment:

```
CAAGGGTATAYGAGTAGCTG
---GAGSTTGCAGTGAGC--
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

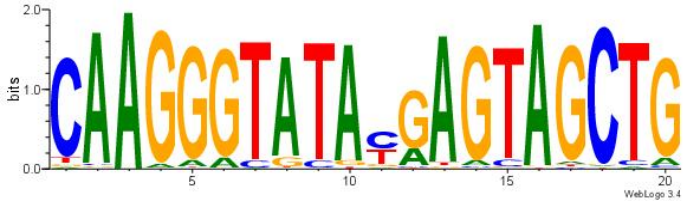

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

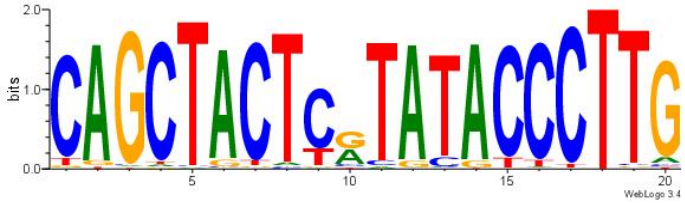

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.115312

Alignment:
VCCDCCTCCKCCTCCTC
GCTCACTGCAASCTC--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

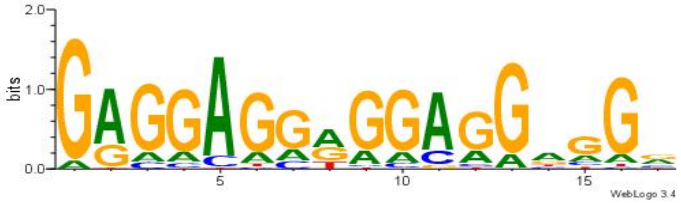

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

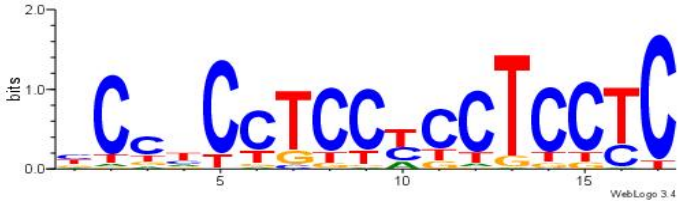

Dataset #: 1 Motif ID: 7 Motif name: Motif 7

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

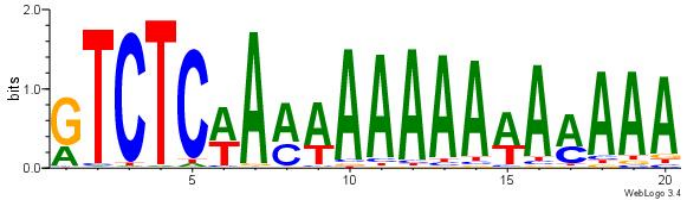

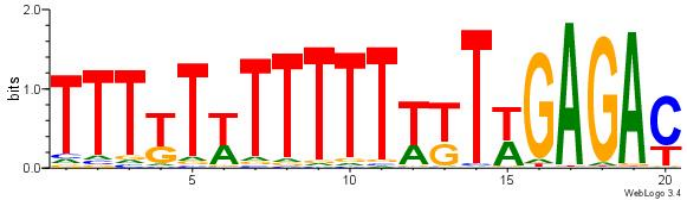

Best Matches for Motif ID 7 (Highest to Lowest)

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0958672

Alignment:

```
GCCAGTCACAAAARGACAMA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

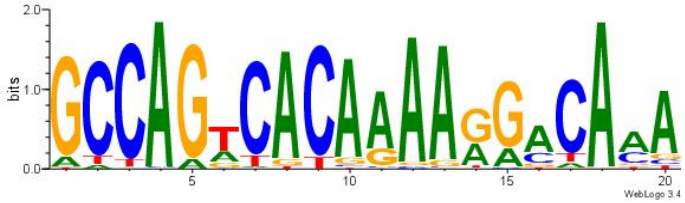

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

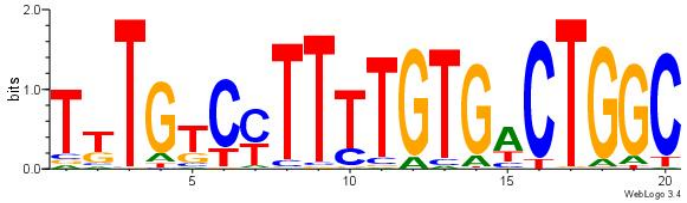

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124077

Alignment:
GTKTMTATMTACCACATTTT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

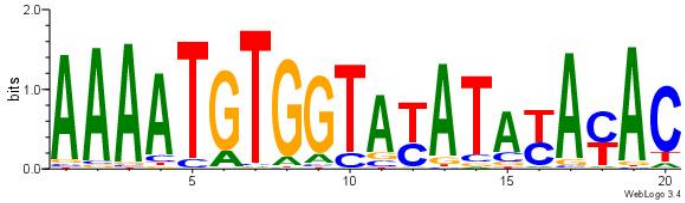

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

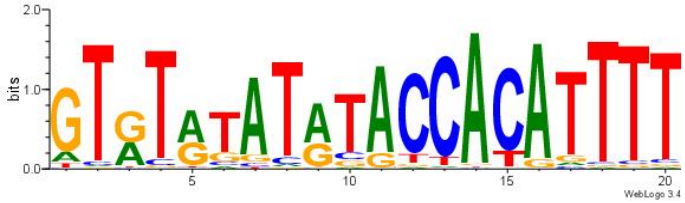

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.127162

Alignment:
GAGAGAGAGAGAGAGAGAGA
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

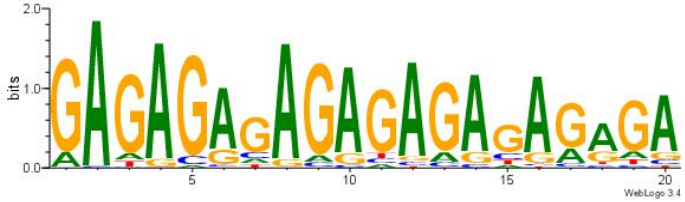

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

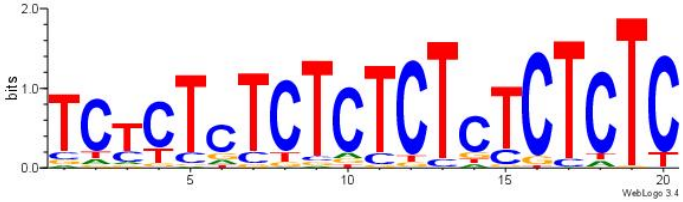

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.127593

Alignment:
ATGTAACCAAAYACCACCTG
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

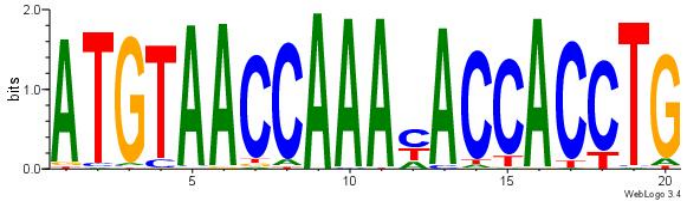

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

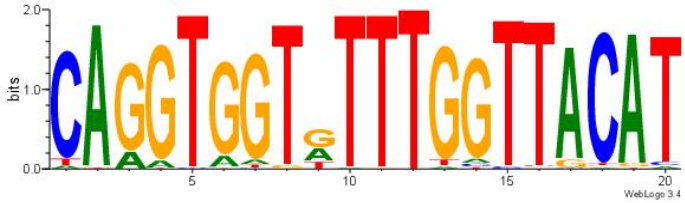

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129755

Alignment:

```
KKCACCTTGATCTTGGACTT
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

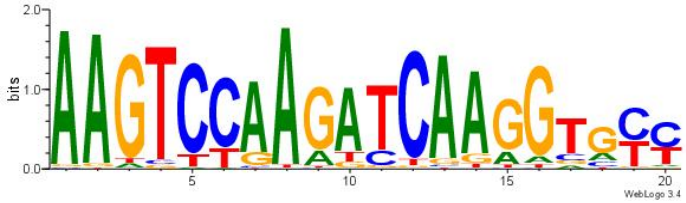

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

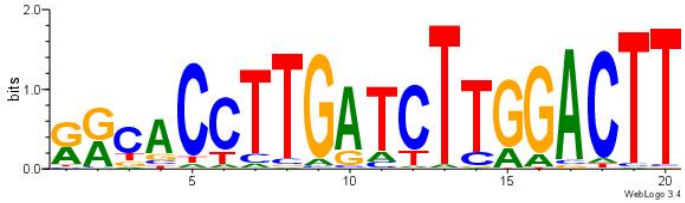

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132158

Alignment:
CTTGCCCAAGGTCACACAGC
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

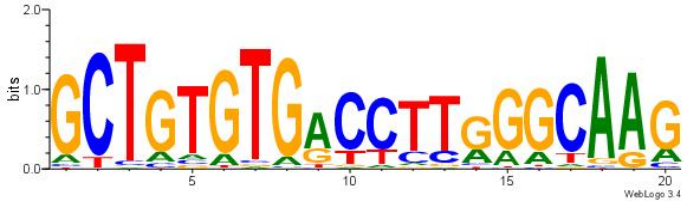

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

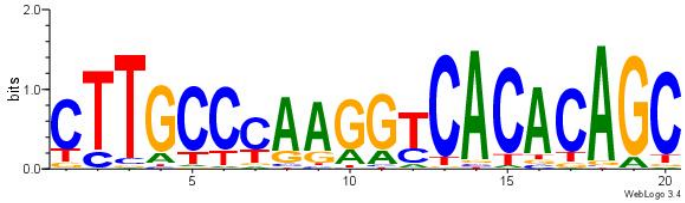

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.132166

Alignment:
GAAHCAACCKAAKTGTCCAT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

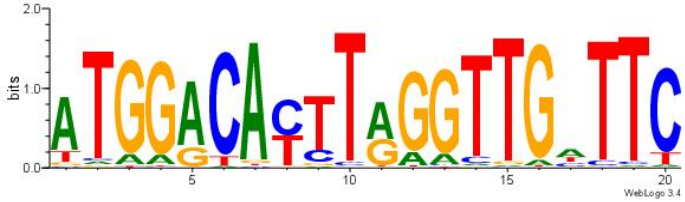

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

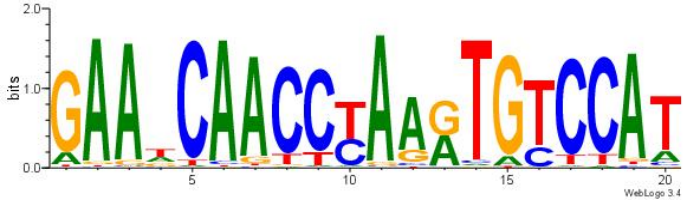

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134884

Alignment:
MGTCTMKCTCTGTKGCCCAG
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

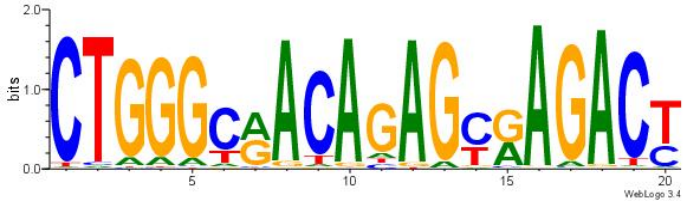

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

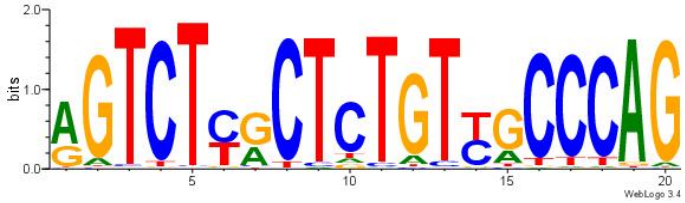

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13532

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

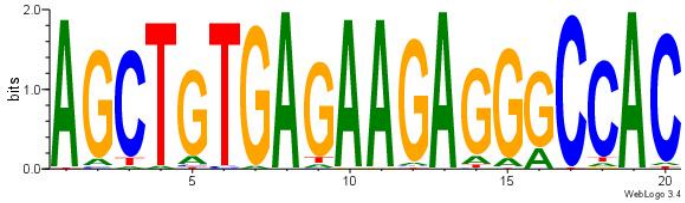

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

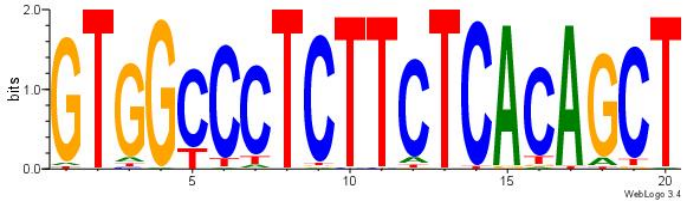

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13579

Alignment:

```
ACTGTCTTCCACCTCCACAT
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

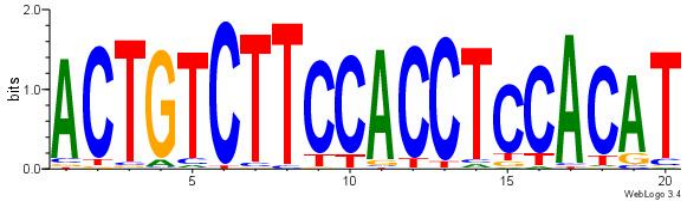

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

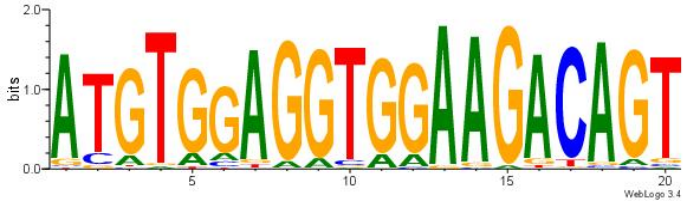

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.136068

Alignment:
ATGGCTGAATAKTATTCCAT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

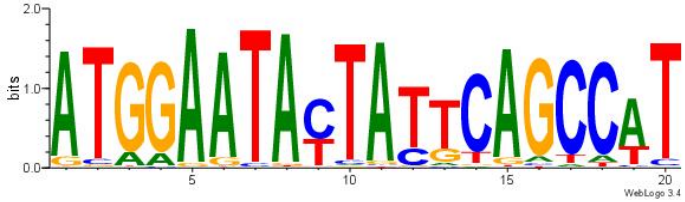

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

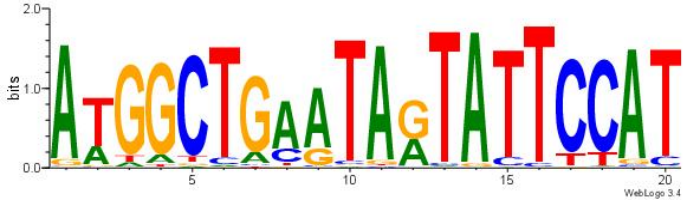

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.137274

Alignment:
AGAGCCAAATCATGARTGAA
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

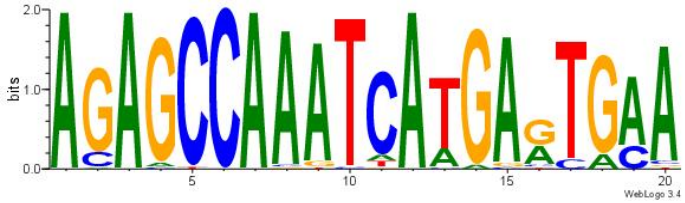

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

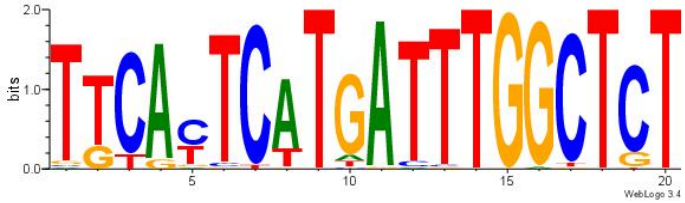

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13781

Alignment:

```
GTTATTAATTGGCCTAATTT
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

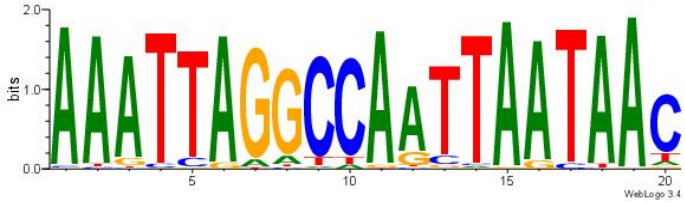

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138945

Alignment:

```
AGGTTTGTTACATAGGTAWA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

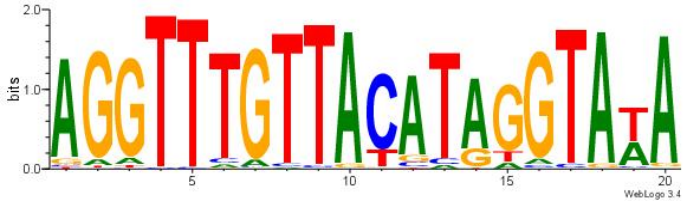

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

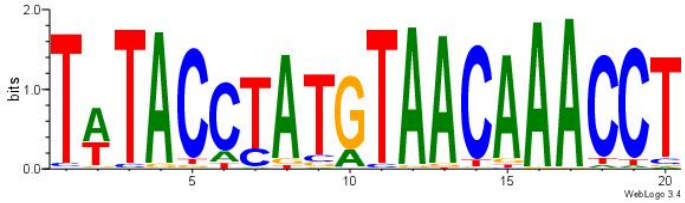

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.139088

Alignment:
GTGCCAGGCACTGTKCTARG
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

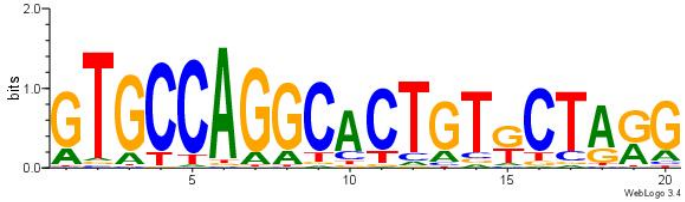

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

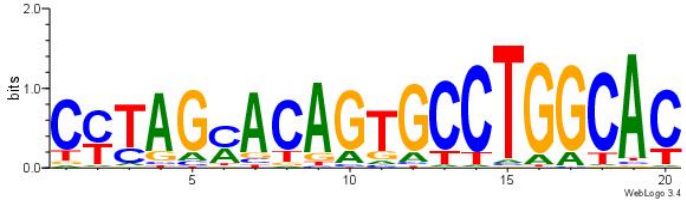

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140409

Alignment:
AWTKKTGGTTKCCAGKGGCT
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

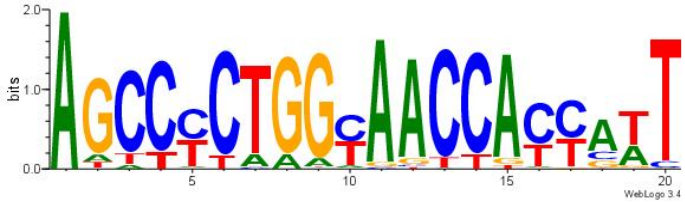

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

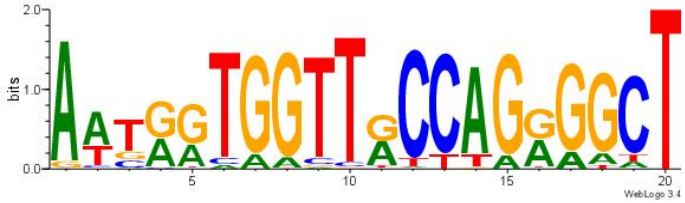

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140857

Alignment:

```
GGCATCACGGATCCTACCAA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

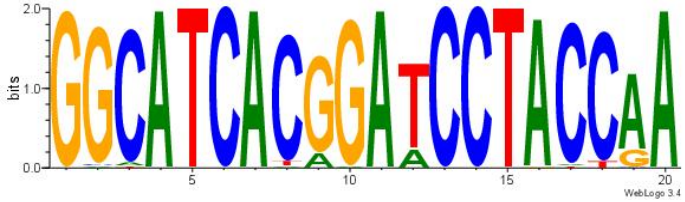

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

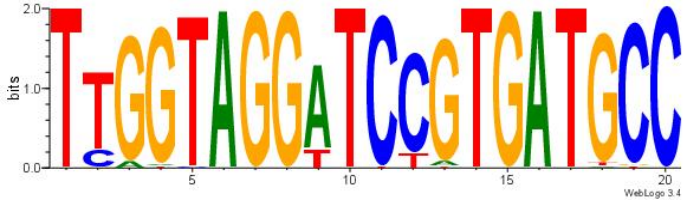

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141836

Alignment:
GGGATTGTAAATACACCAAT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

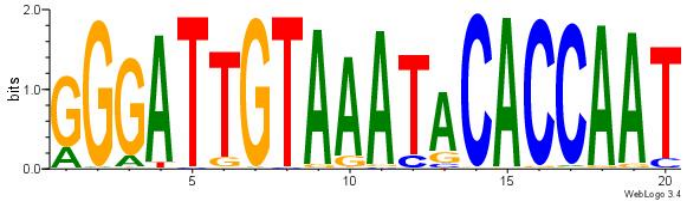

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.142048

Alignment:
VMATTTAKTGAGCACCTACT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

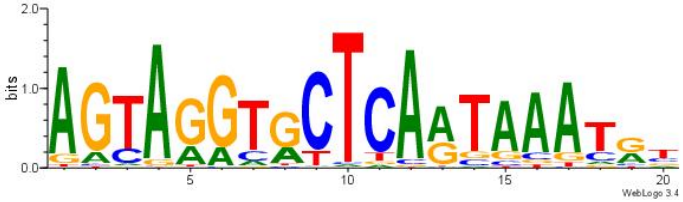

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

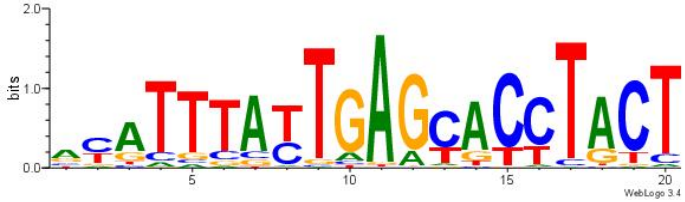

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142065

Alignment:
CTCAGTGTTAATCTCCTGTC
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

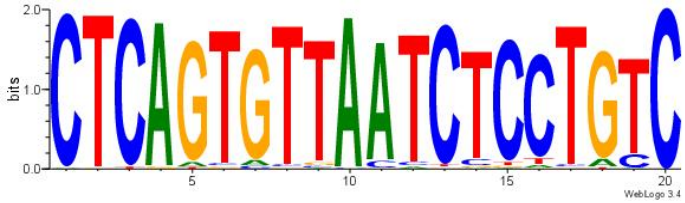

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

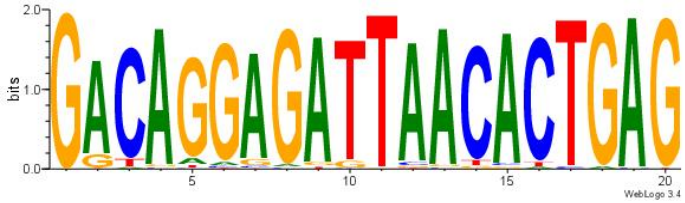

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142591

Alignment:

```
TAATTTTATGTGTCAACTTG
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

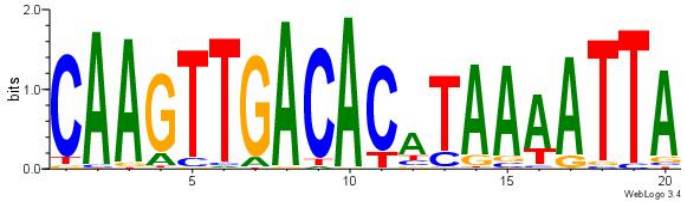

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

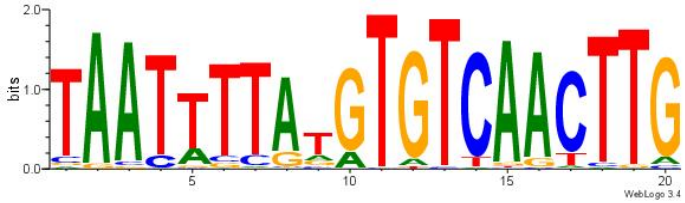

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14331

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

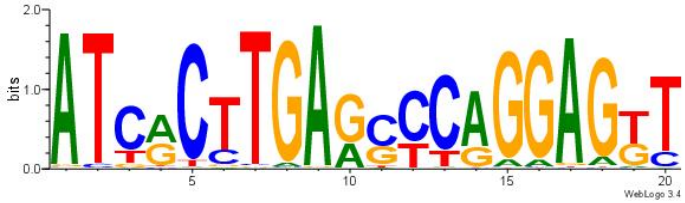

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

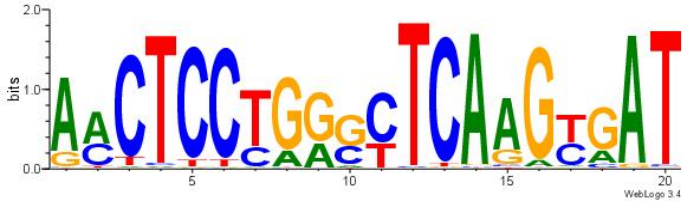

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.145735

Alignment:
GGATCCACTGGGTGAAGCCA
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

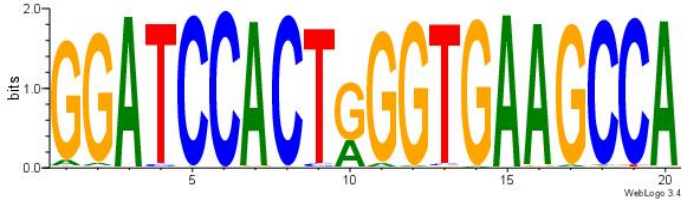

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

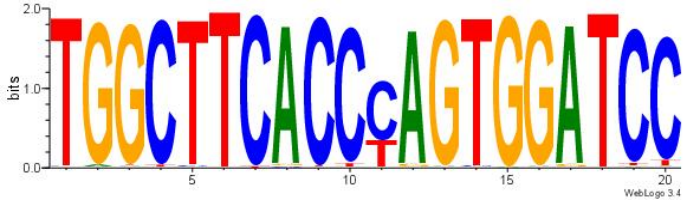

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146721

Alignment:
CTGGCCCTCAATGGTTAAAC
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

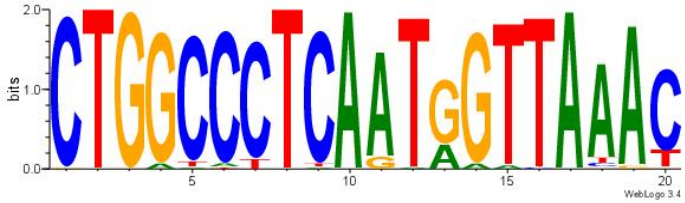

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

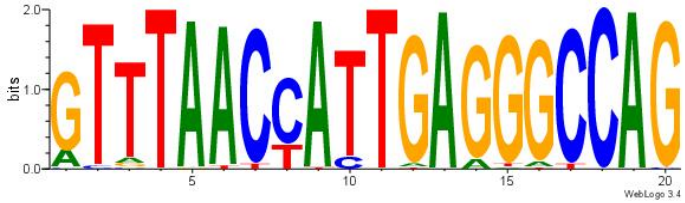

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146805

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

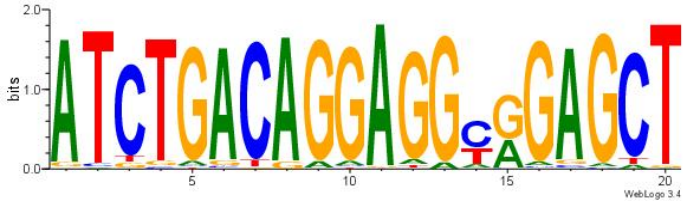

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

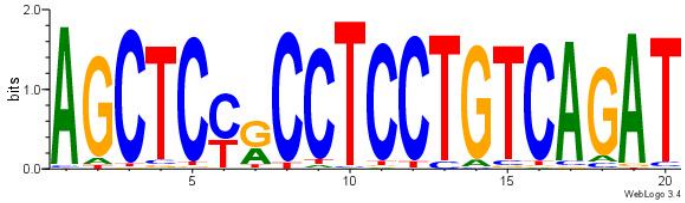

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147177

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

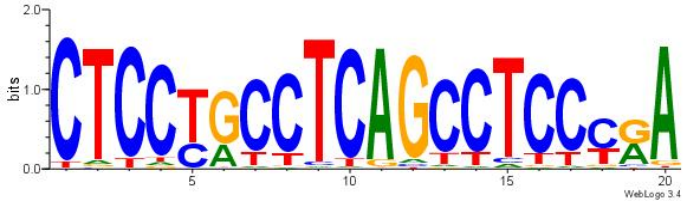

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

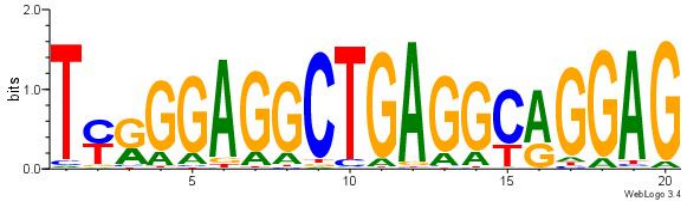

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.147387

Alignment:
ACCTGGAAAATCGGGTCACT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

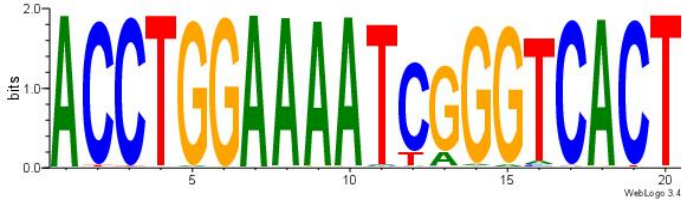

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

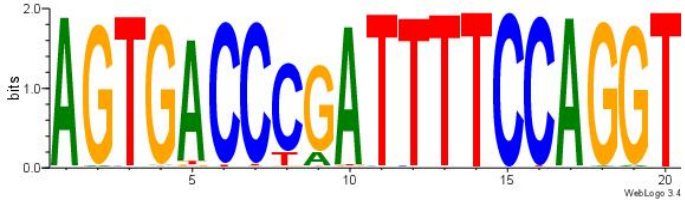

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147621

Alignment:
TCTGGAGTGGACCTCCAGCA
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

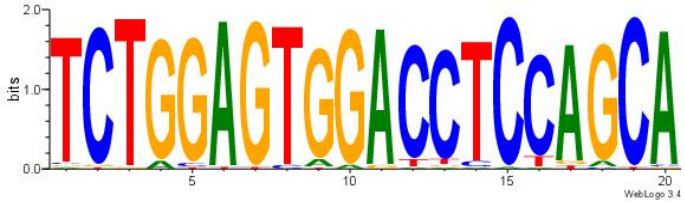

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

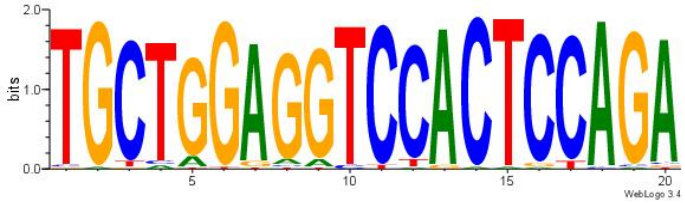

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149945

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

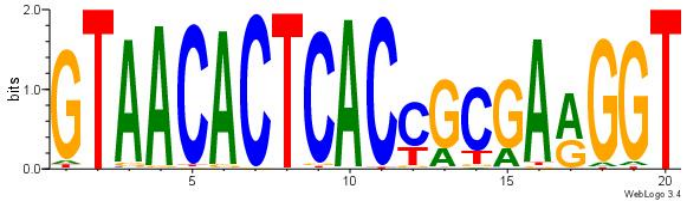

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

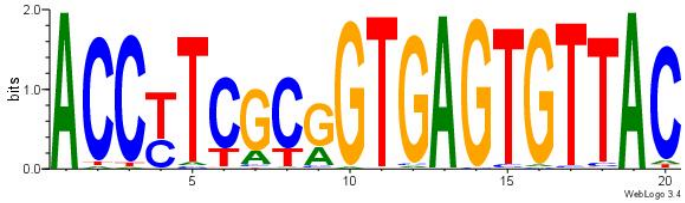

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15026

Alignment:

```
ACCCAATWTGTAGTCTTTTA
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

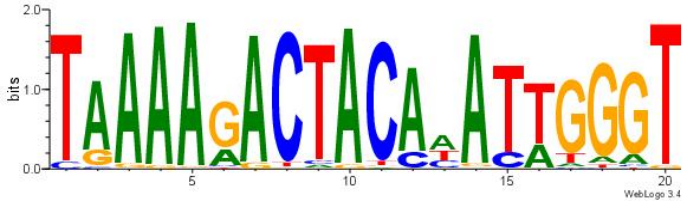

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

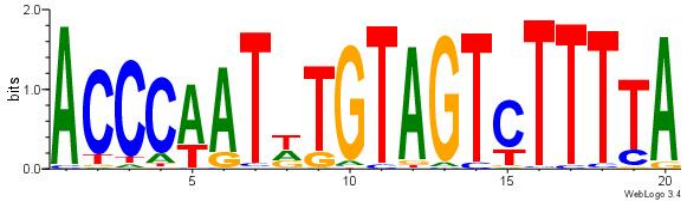

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.150666

Alignment:
AAAATCACAAGCATTCCTAT
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

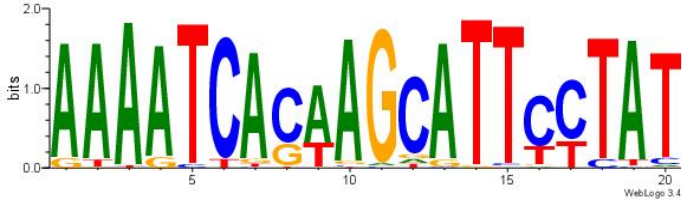

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

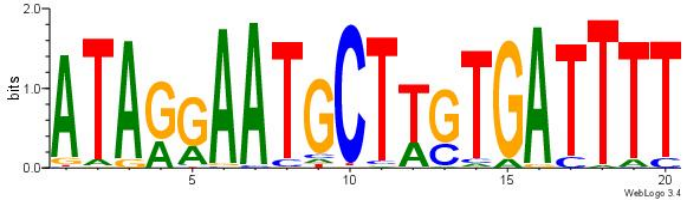

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150884

Alignment:
CGTCGCTCACGCTGGGAGCT
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

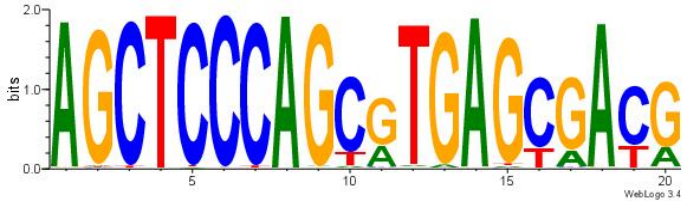

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

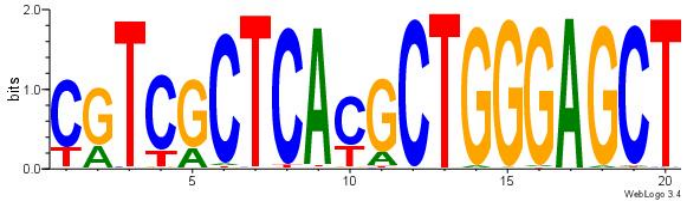

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151045

Alignment:

```
AAGACCTTCCAGTGGGACAA
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

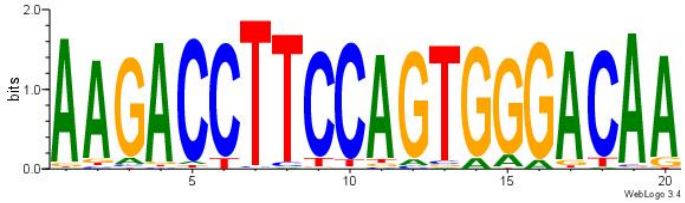

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

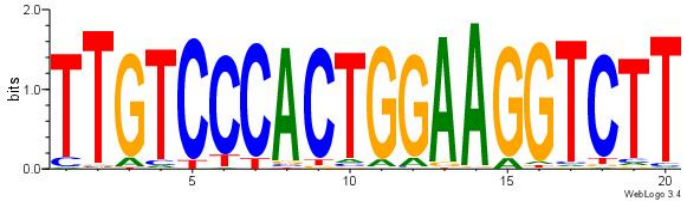

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15117

Alignment:
GCCTCTCCCTCCACACCTCC
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

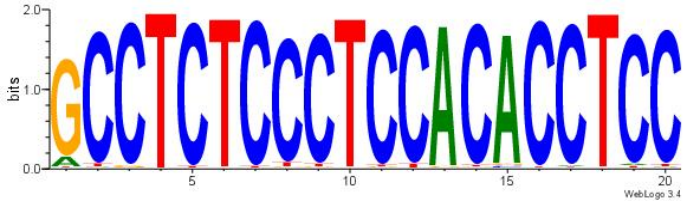

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

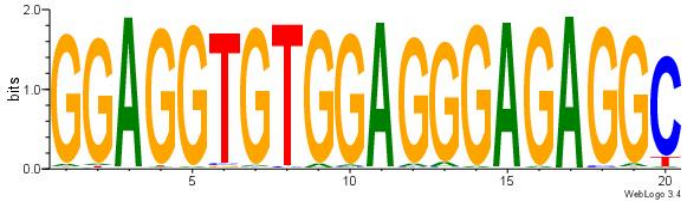

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.151892

Alignment:
CATTCTGGGGTCTGGAGGAY
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

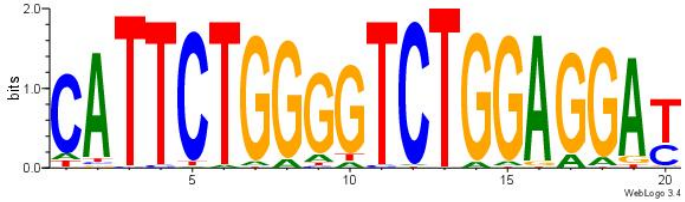

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

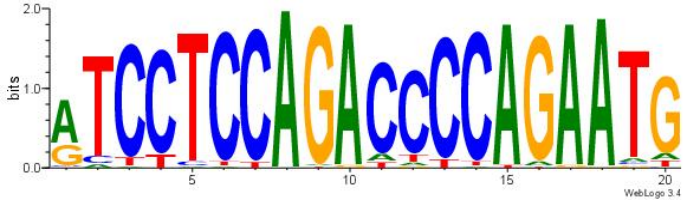

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151976

Alignment:
AAATTACCCAGTCTCAGGTA
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

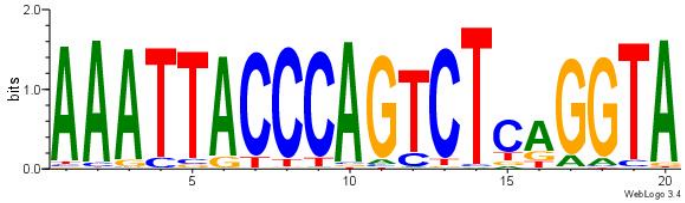

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

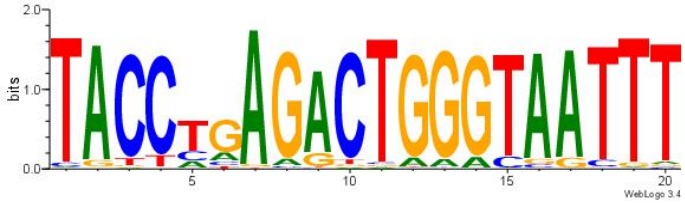

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152007

Alignment:

```
GGTTCATCTCACTAGGGAGT
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

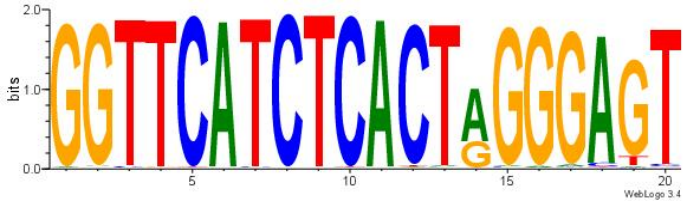

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

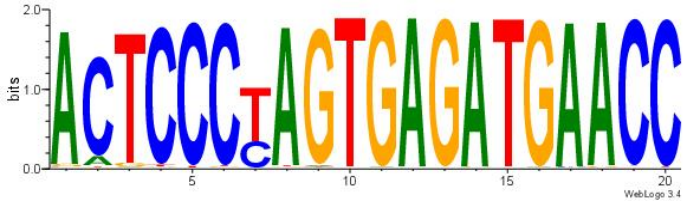

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153061

Alignment:

```
CTAGACATAAAGGTTCTCCA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

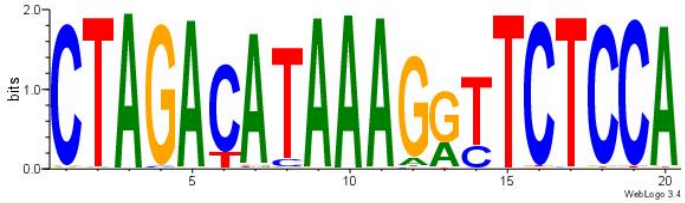

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

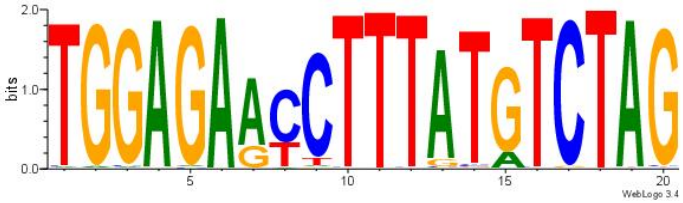

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.153423

Alignment:
GCCAATTTCTCCCATTTGGA
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

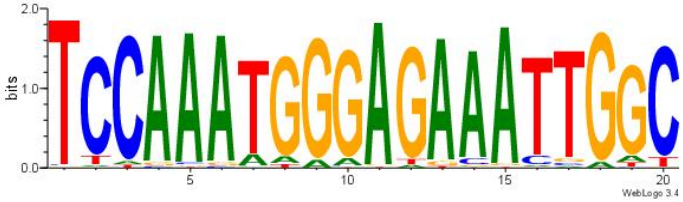

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

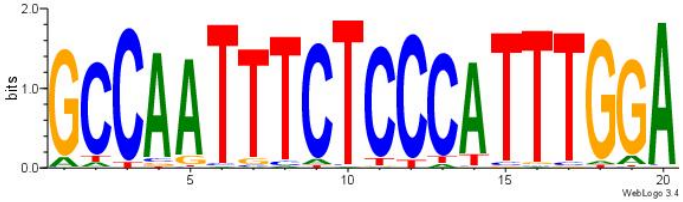

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153531

Alignment:
HAGTGGKATTGCTGGATCAT
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

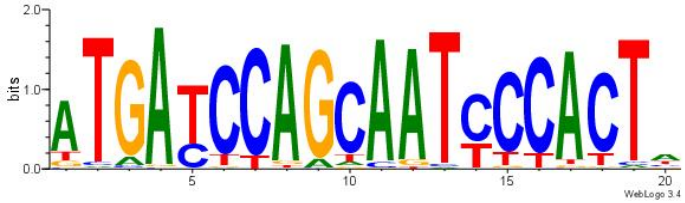

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

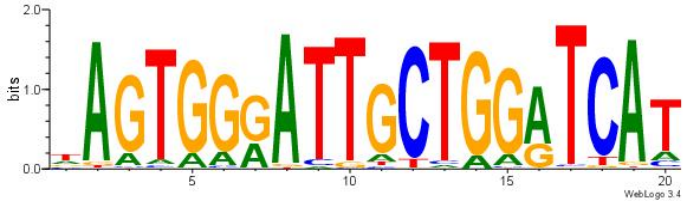

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153936

Alignment:

```
GCAAAKGACATGATYTCATT
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

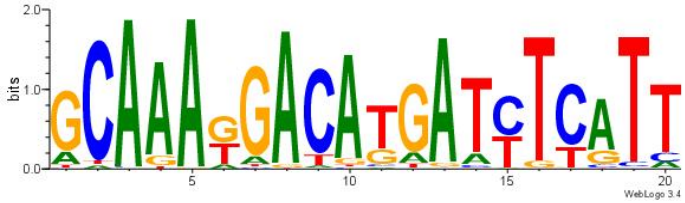

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

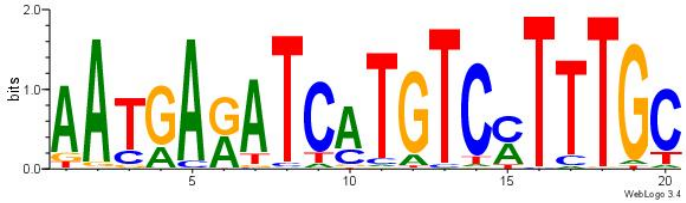

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155915

Alignment:
GGGAGGTGTCTCCCAGTCAG
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

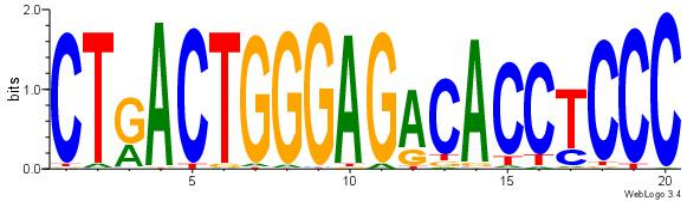

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

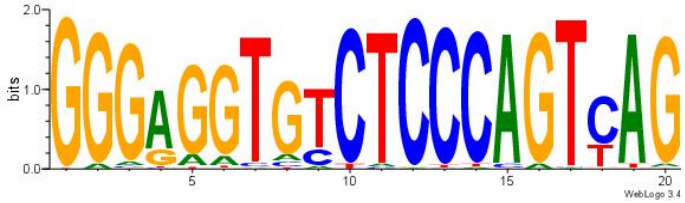

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.158022

Alignment:
AAGGAACAAACTCCRGACAC
TTTYTWTTTTTTYTWGAGAC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

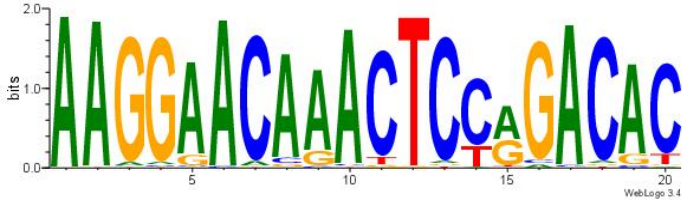

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

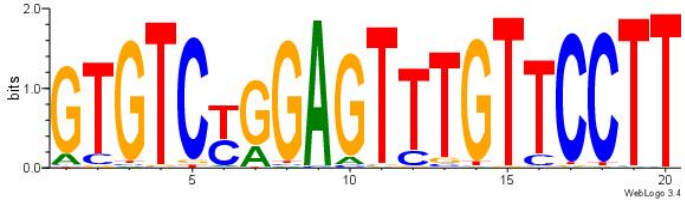

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.160066

Alignment:
GACTGGCAGGCAGCTCCACC
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

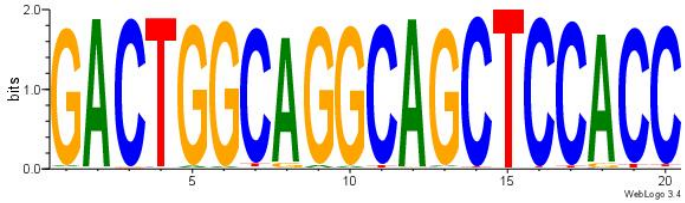

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

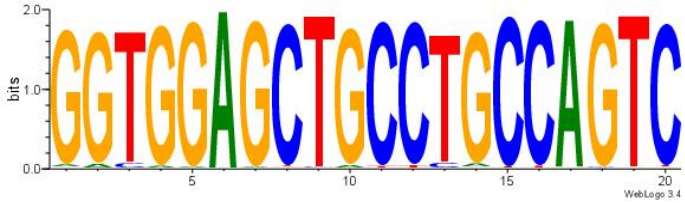

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160117

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

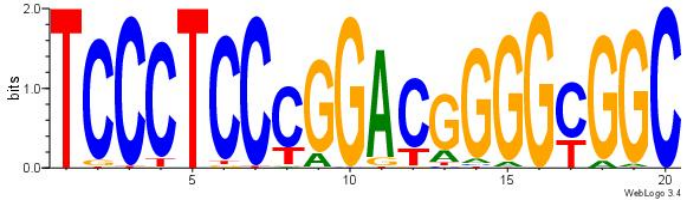

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

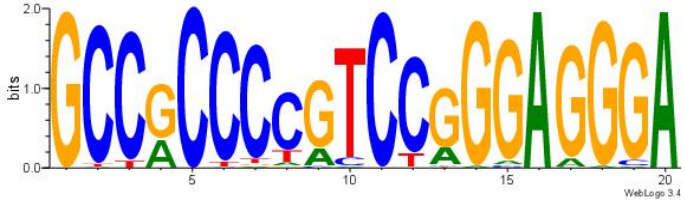

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160201

Alignment:

```
AAAGCTGGAGCTATTATCTA
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

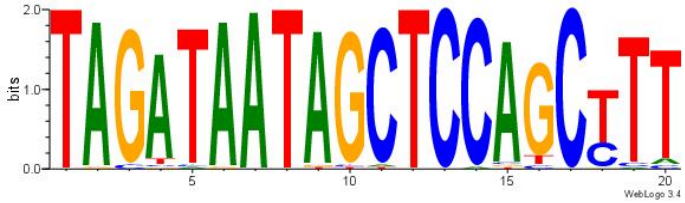

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

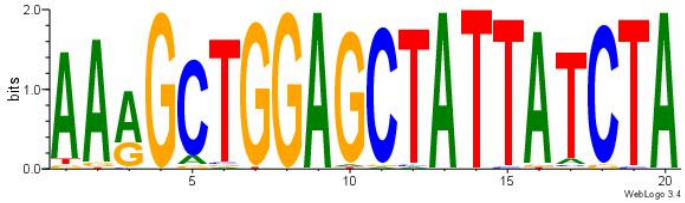

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.160804

Alignment:
CACCAGACTCAGGAGCCCAG
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

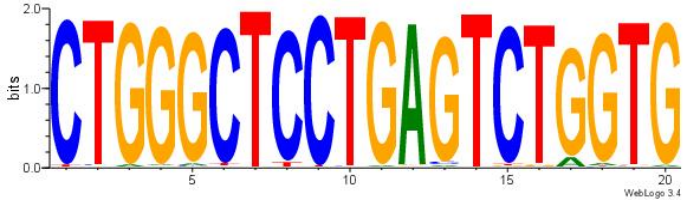

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

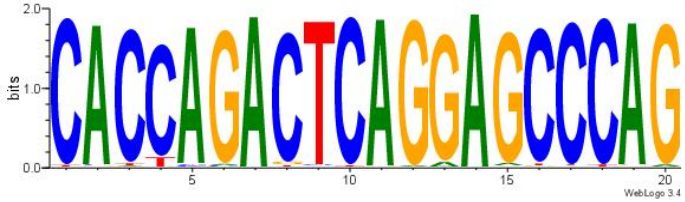

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.161561

Alignment:
ACACATCACAAAGCAGTTTC
GTCTCWAMAAAAAAWAMAAA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

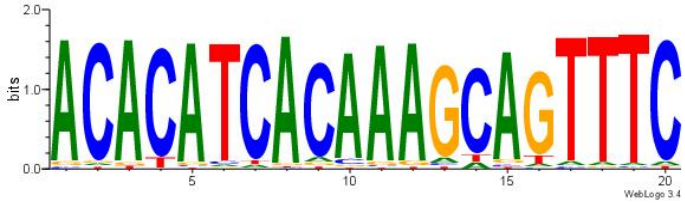

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

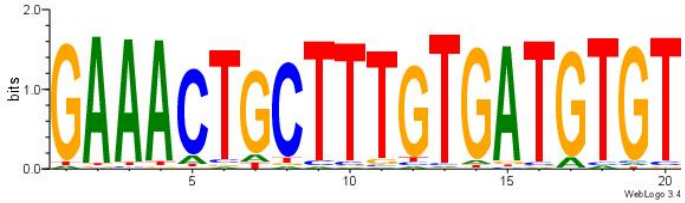

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161615

Alignment:

```
AGGTCCTTCAGGAGGTATTC
GTCTCWAMAAAAAAWAMAAA
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

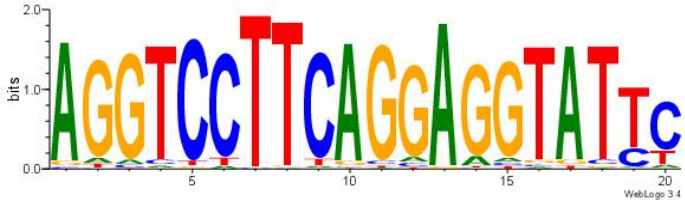

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

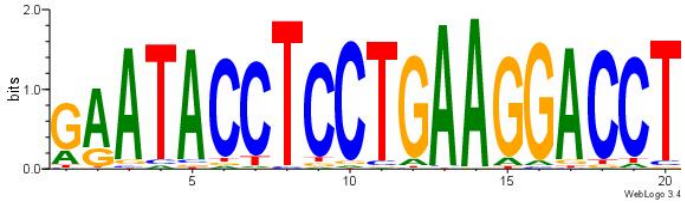

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162105

Alignment:

```
AAGTTCTKGGKTACATGTGC
TTTYTWTTTTTTYTWGAGAC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

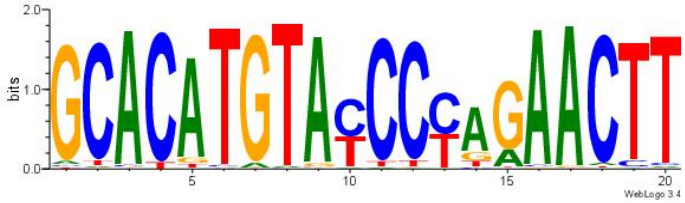

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

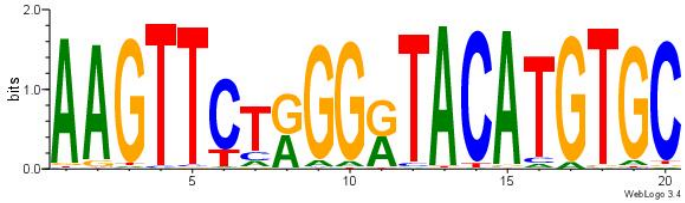

Dataset #: 1 Motif ID: 8 Motif name: Motif 8

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

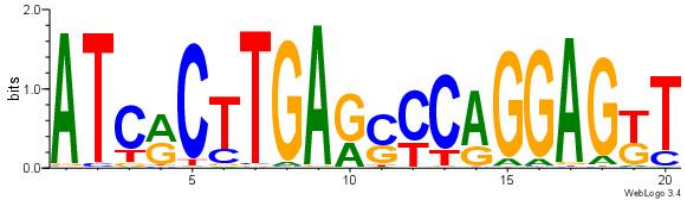

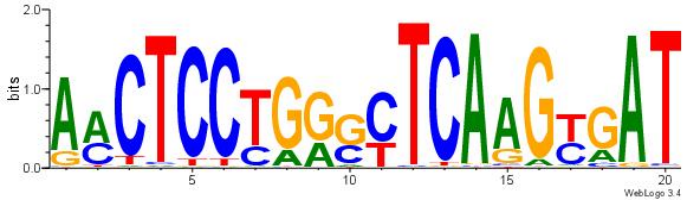

Best Matches for Motif ID 8 (Highest to Lowest)

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0757564

Alignment:

```
AGCCYCTGGYAACCAYYAWT
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

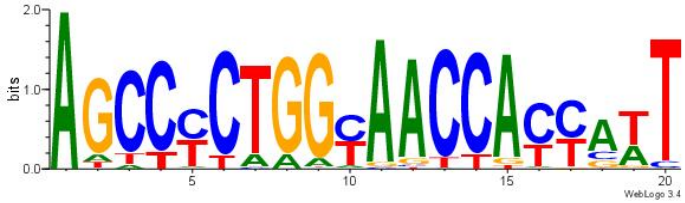

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

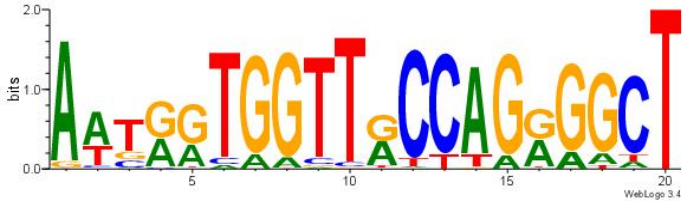

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0854742

Alignment:
KKCACCTTGATCTTGGACTT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

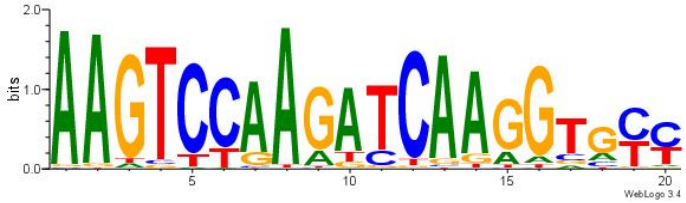

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

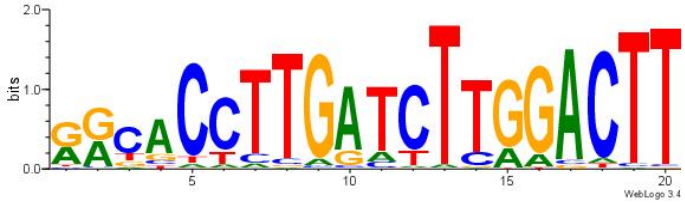

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.0875132

Alignment:
CGTCGCTCACGCTGGGAGCT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

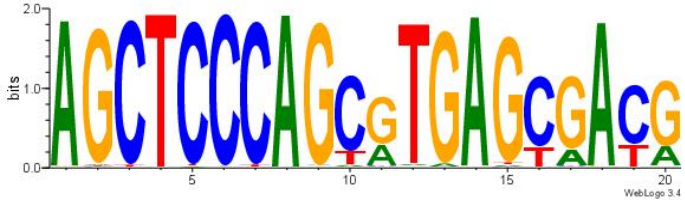

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

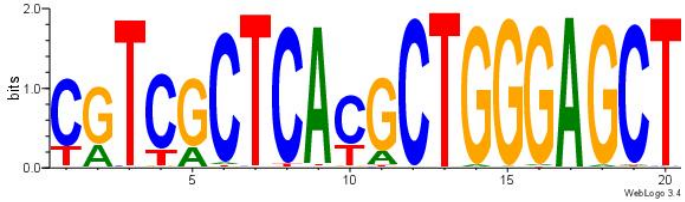

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0919085

Alignment:
CGGCGCTGMGCTCGATTTCT
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

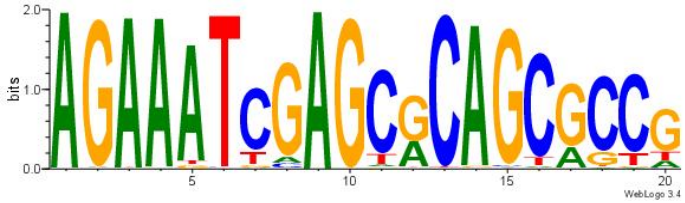

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

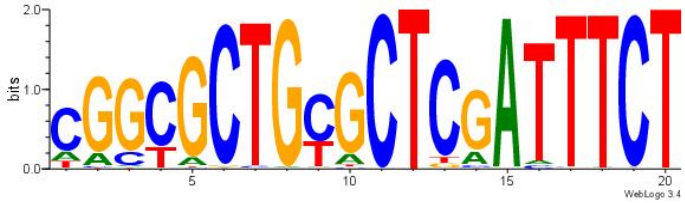

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0931628

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

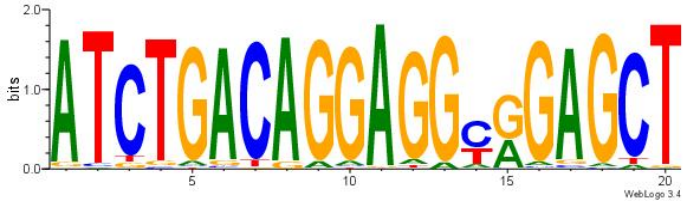

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

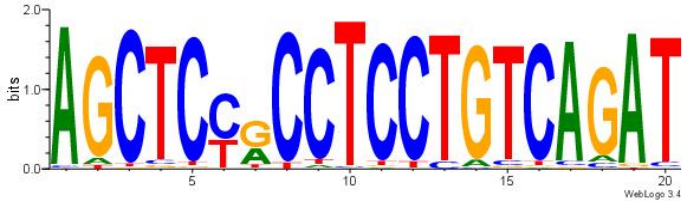

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0956513

Alignment:

```
AAGTTCTKGGKTACATGTGC
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

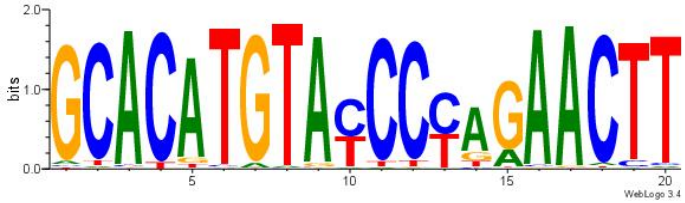

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

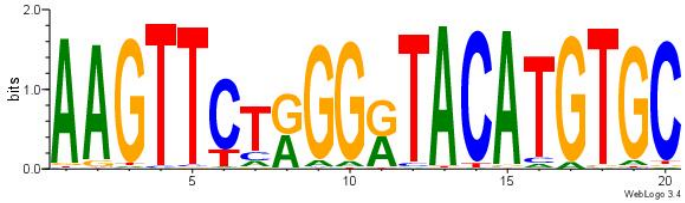

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.100814

Alignment:
VMATTTAKTGAGCACCTACT
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

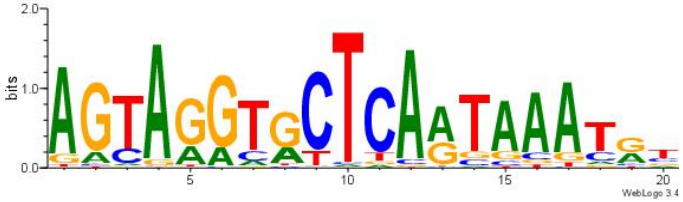

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

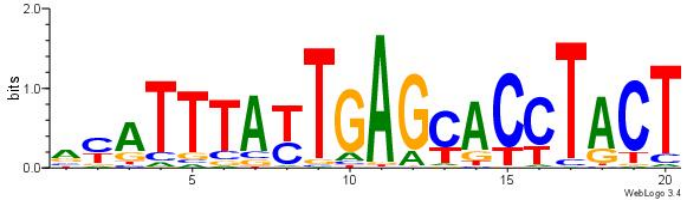

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.10183

Alignment:
AGGCCCCAGTGTSTGTTGTT
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

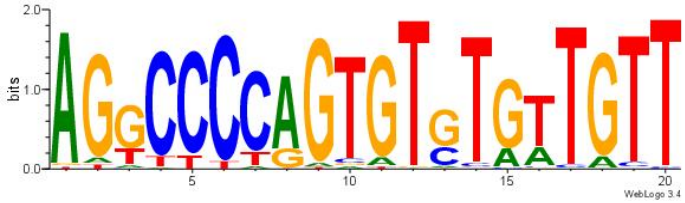

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

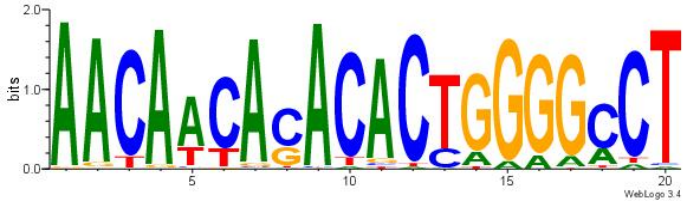

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.103875

Alignment:

```
GTAACACTCACCGCGARGGT
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

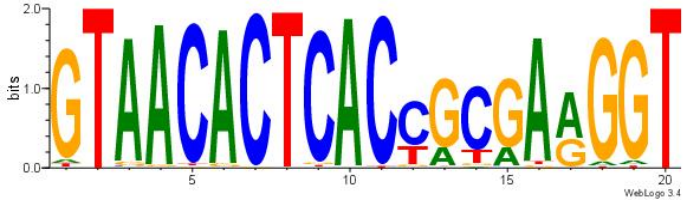

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

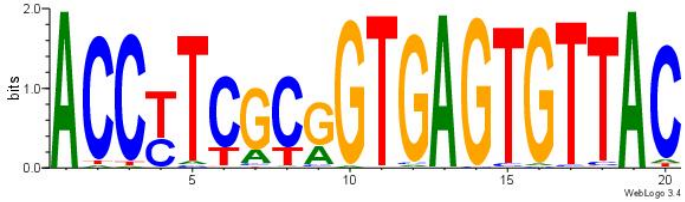

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.10512

Alignment:
GCTGTGTGACCTTGGGCAAG
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

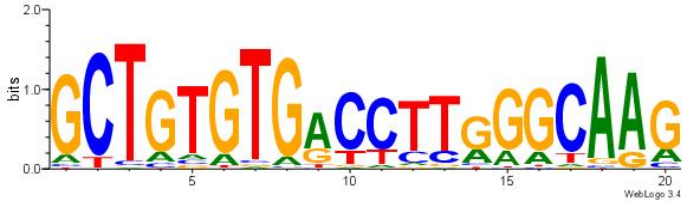

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

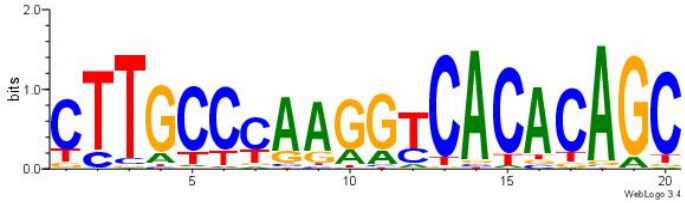

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.10533

Alignment:
CATTCTGGGGTCTGGAGGAY
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

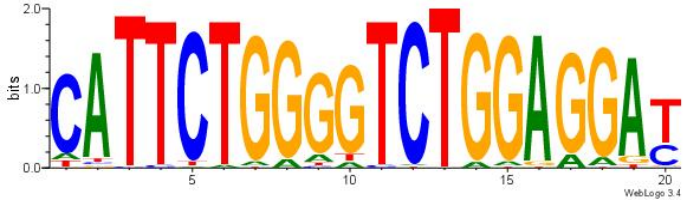

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

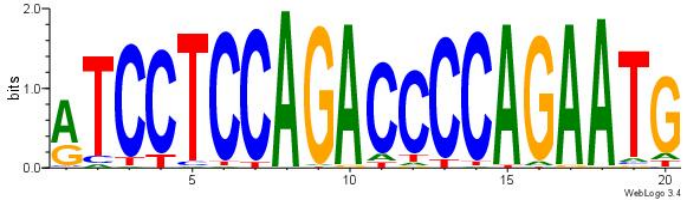

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.106854

Alignment:
CCTGCCATTGCYSAGGCTTG
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

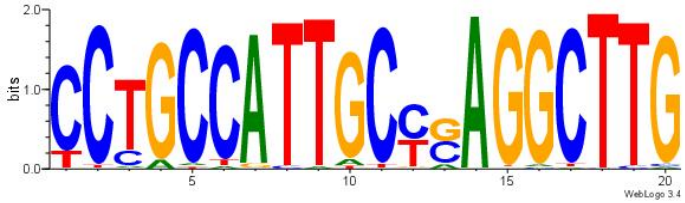

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

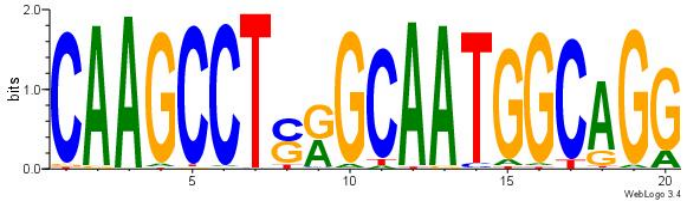

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1075

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

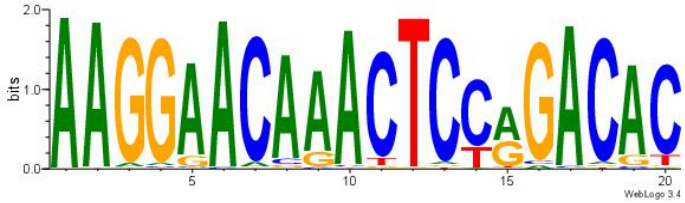

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

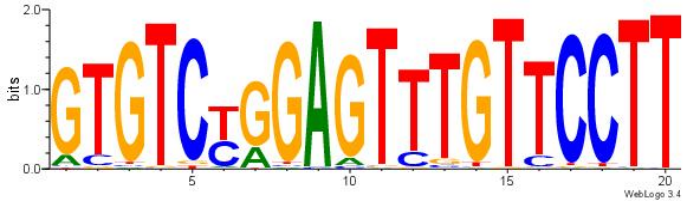

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.108823

Alignment:

```
AAAATGTGGTAYATAYAYAC
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

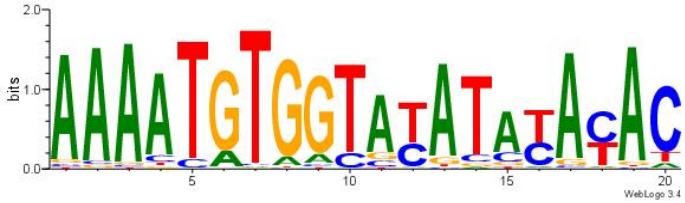

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

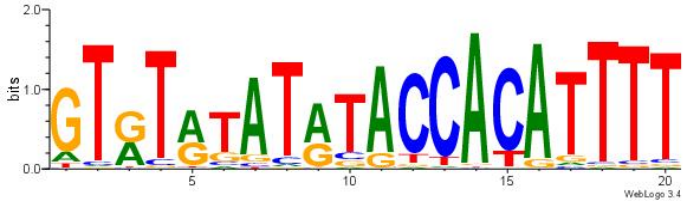

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.110533

Alignment:
ATGGCTGAATAKTATTCCAT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

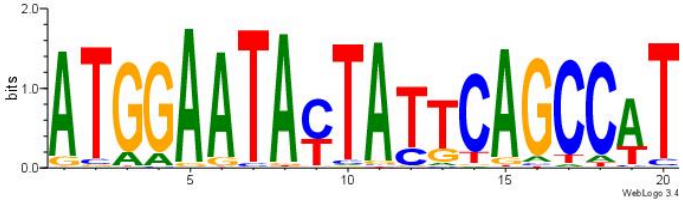

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

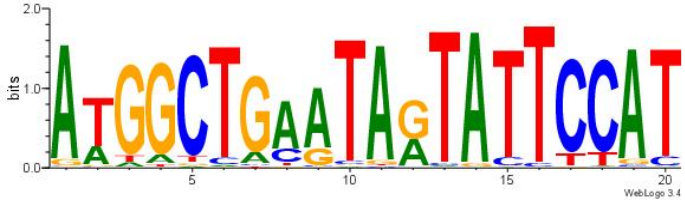

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.110859

Alignment:
TCCAAATGGGAGAAATTGGC
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

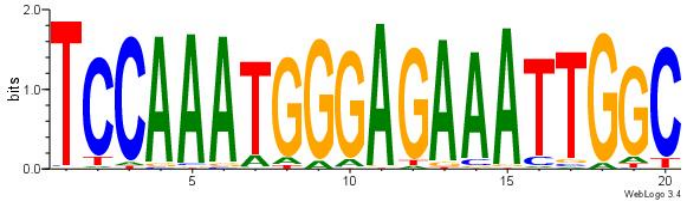

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

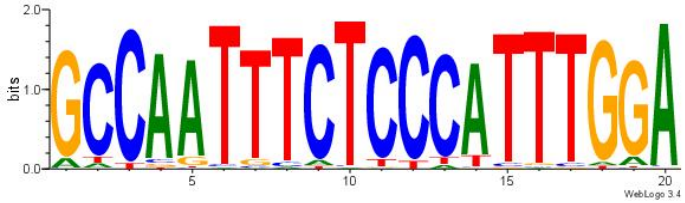

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110996

Alignment:

```
AAAGCTGGAGCTATTATCTA
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

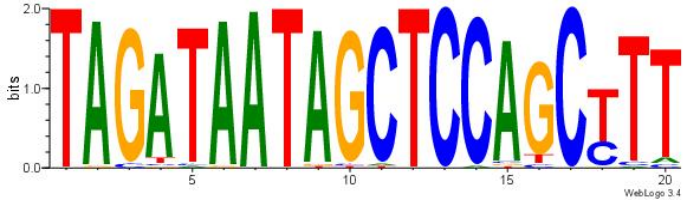

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

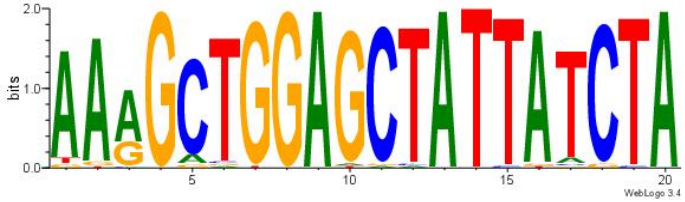

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111205

Alignment:

```
AAGACCTTCCAGTGGGACAA
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

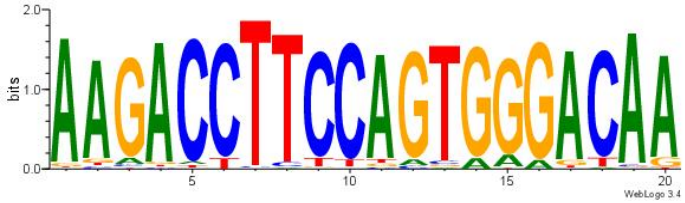

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

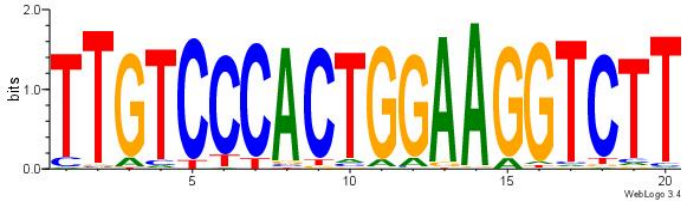

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.111557

Alignment:
AGGTCCTTCAGGAGGTATTC
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

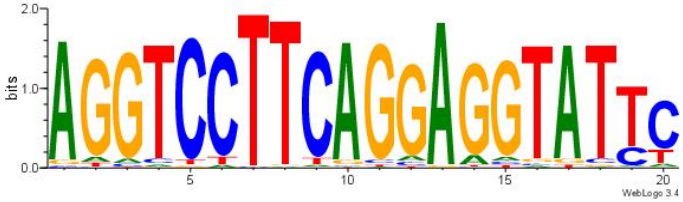

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

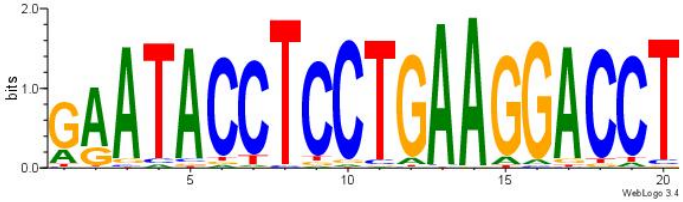

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.11312

Alignment:
TTCAMTCATGATTTGGCTCT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

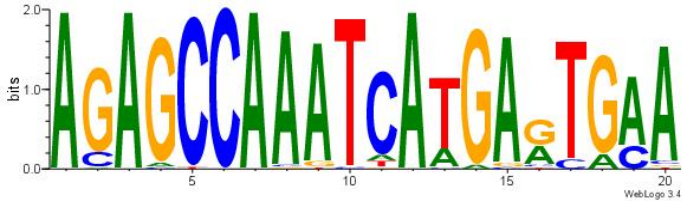

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

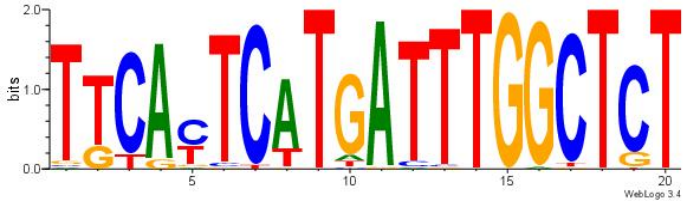

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113194

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

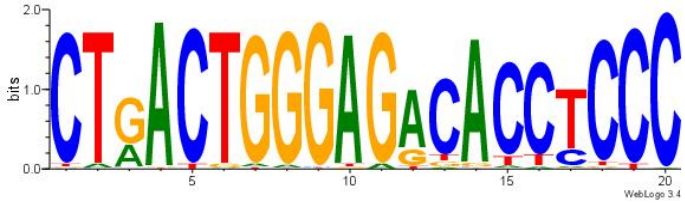

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

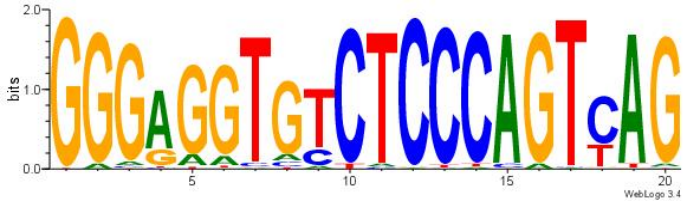

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.114114

Alignment:
GTCTCWAMAAAAAAWAMAAA
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

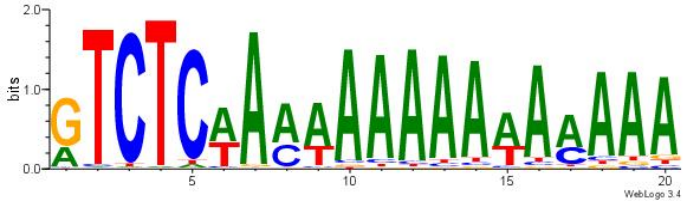

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

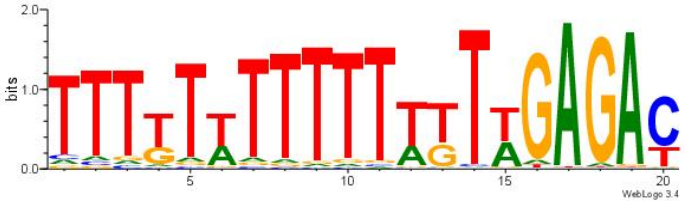

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.115937

Alignment:
GGTTCATCTCACTAGGGAGT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

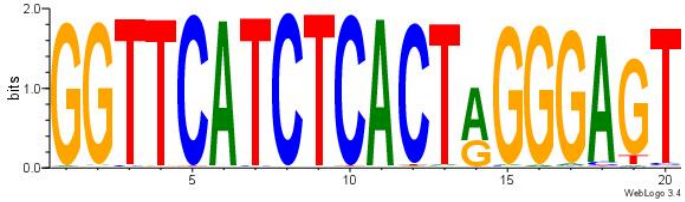

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

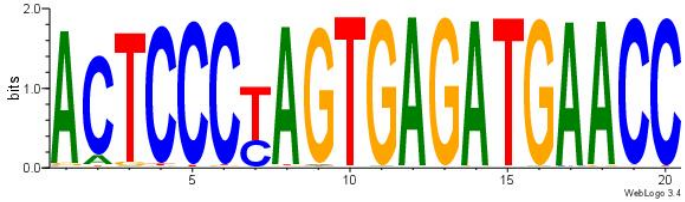

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.116428

Alignment:
CTCCAGKTMCATCCATGTTG
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

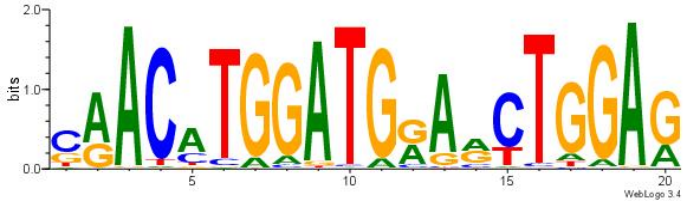

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

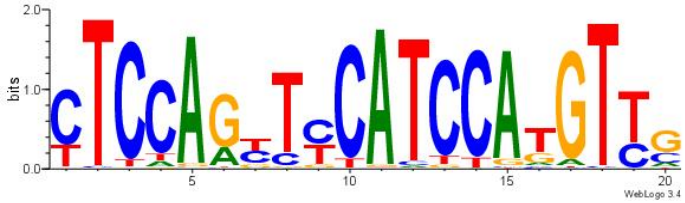

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116613

Alignment:

```
AAATTAGGCCAATTAATAAC
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

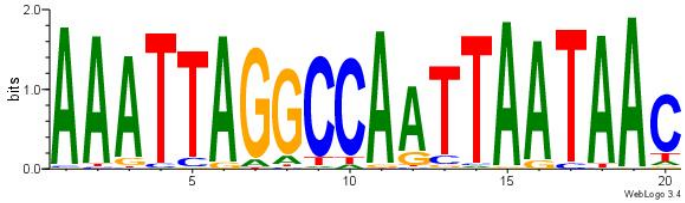

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117026

Alignment:

```
ACTGTCTTCCACCTCCACAT
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

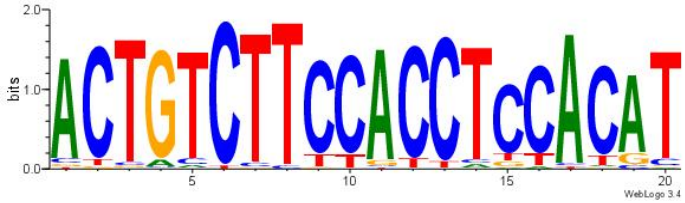

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

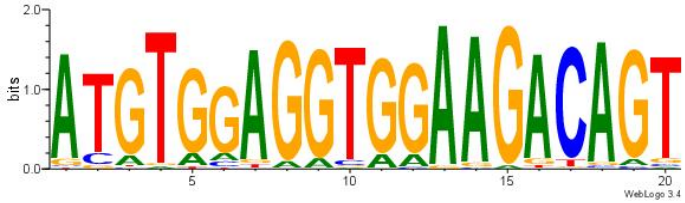

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.117441

Alignment:
GCCTCCTTGAGCTGTGGTGG
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

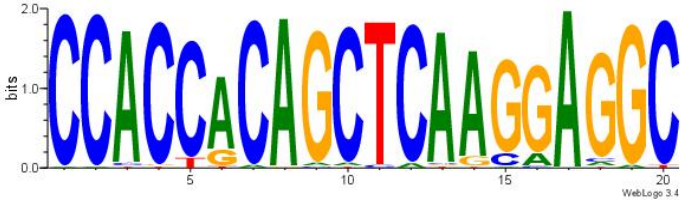

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

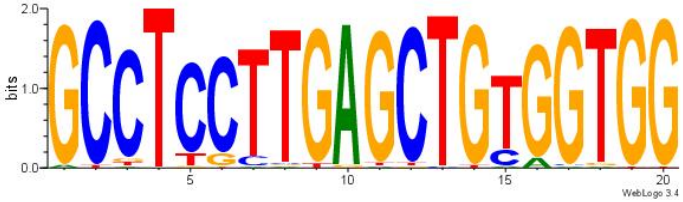

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.118169

Alignment:
GGAGCCGGCTCCCTCAGCTT
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

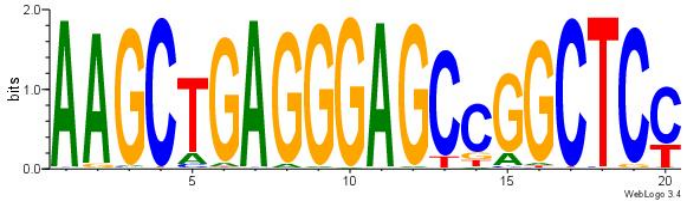

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

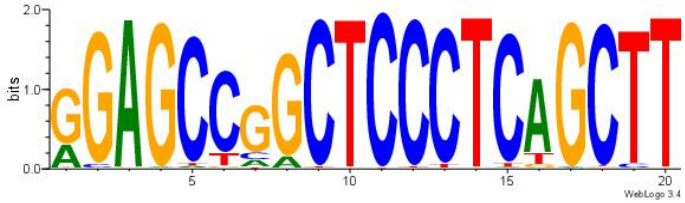

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120902

Alignment:

```
AGGTTTGTTACATAGGTAWA
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

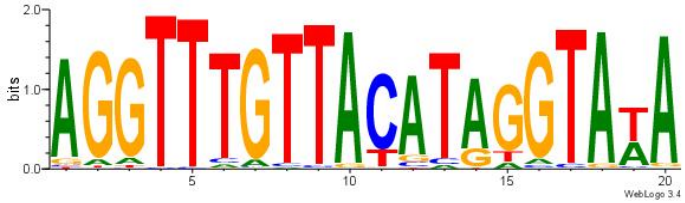

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

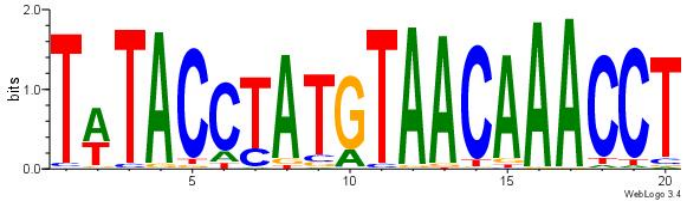

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12294

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

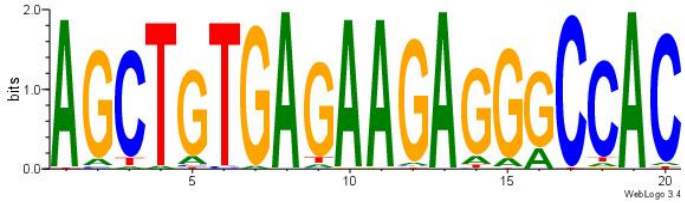

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

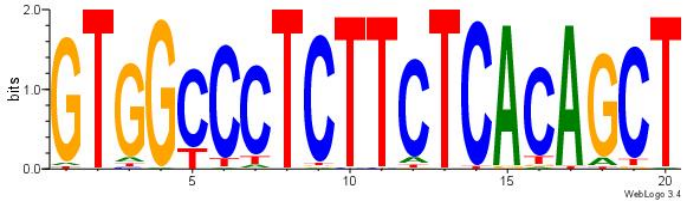

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.122941

Alignment:
CCCGAAGCTGCRYRCTCGGT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

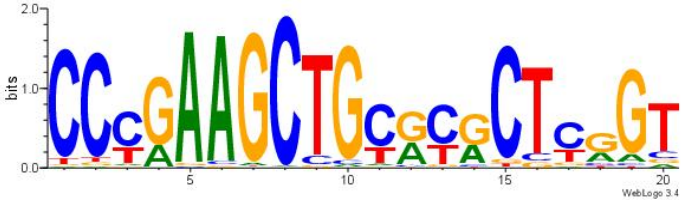

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

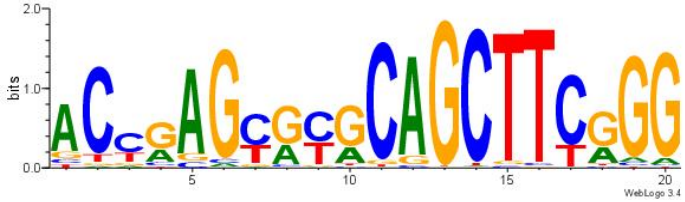

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.123688

Alignment:
CCCATGCAAGTCYRAAATCC
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

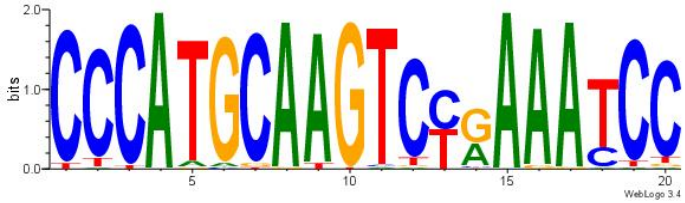

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

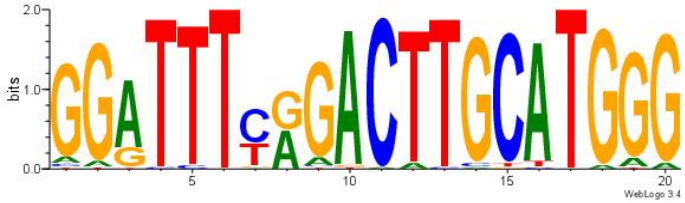

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.123885

Alignment:

```
GTGCCAGGCACTGTKCTARG
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

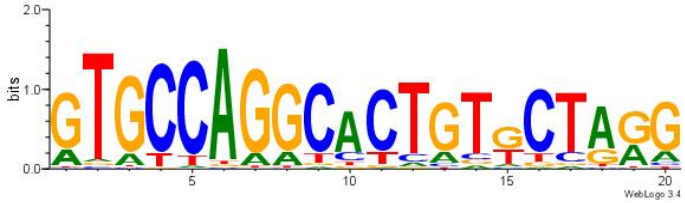

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

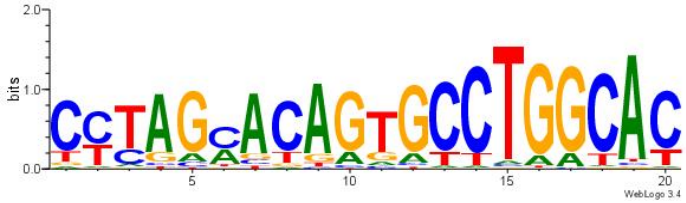

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124333

Alignment:
TCCCTCCCGGACGGGGYGGC
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

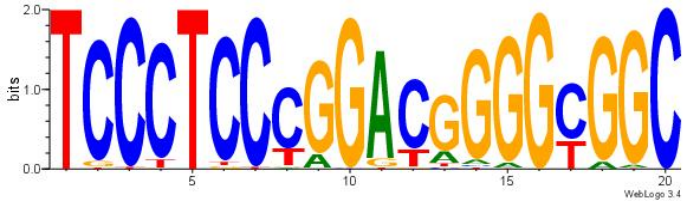

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

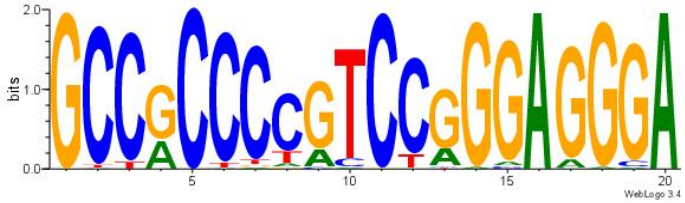

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.12453

Alignment:
AAATTACCCAGTCTCAGGTA
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

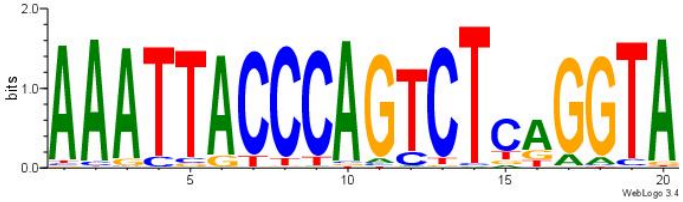

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

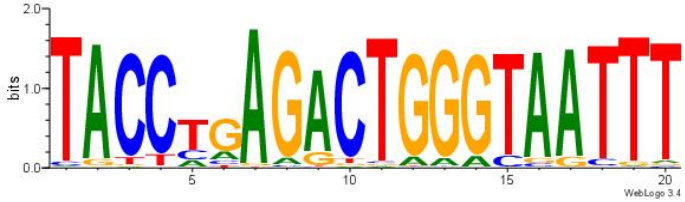

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.12513

Alignment:
AGGACTGAGGGTGCCYRGGG
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

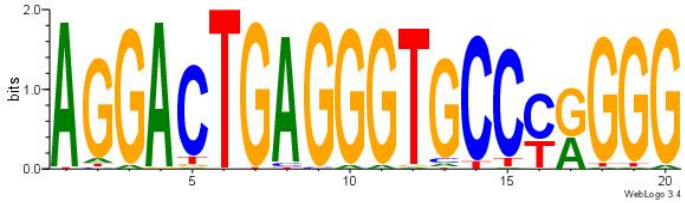

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

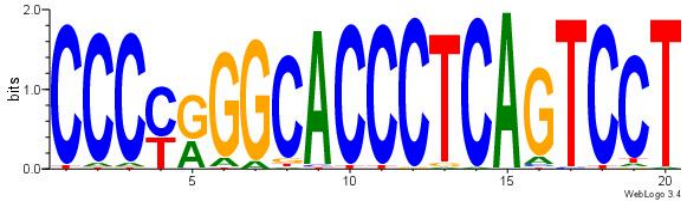

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125382

Alignment:

```
GGCATCACGGATCCTACCAA
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

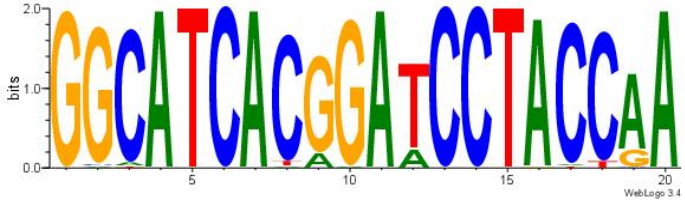

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

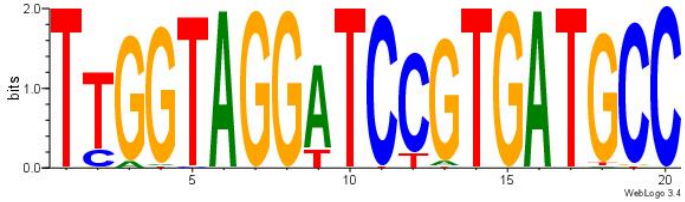

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126313

Alignment:
CTCAGTGTTAATCTCCTGTC
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

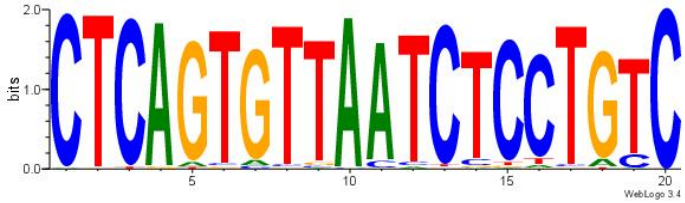

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

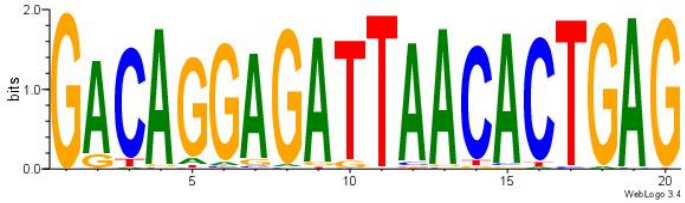

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.130212

Alignment:
ACCTGGAAAATCGGGTCACT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

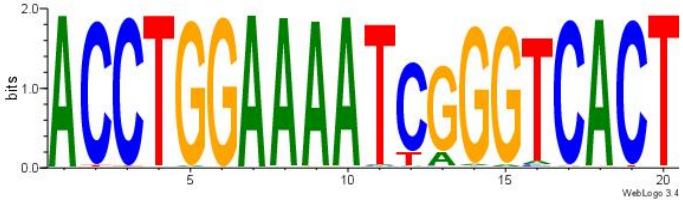

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

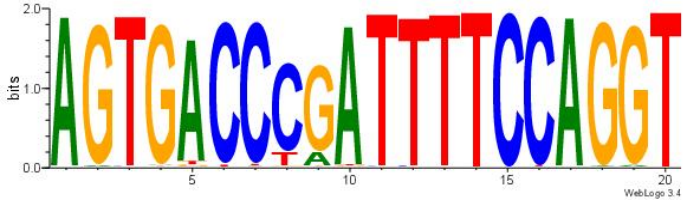

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130332

Alignment:
AGTGAGAACATRYRRTRTTT
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

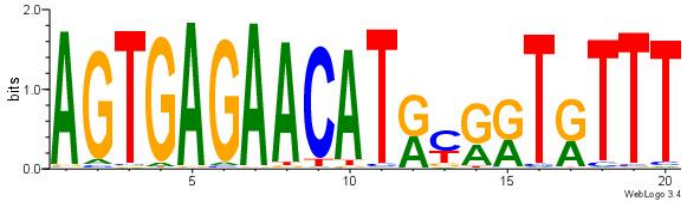

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

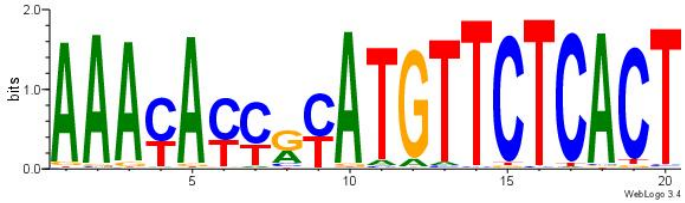

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130405

Alignment:

```
ATTGATMKCCAGGGTTGATT
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

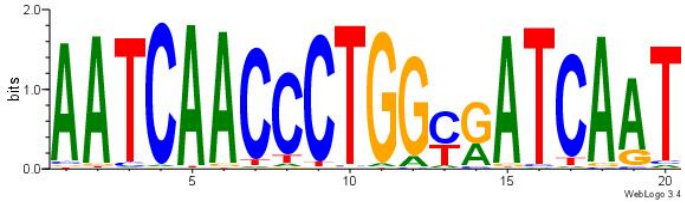

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

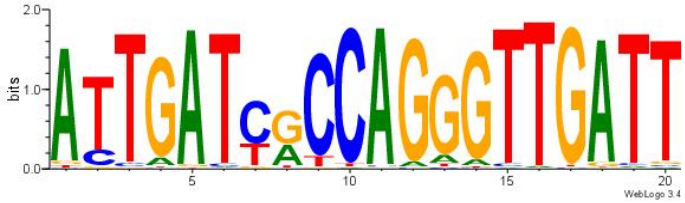

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130417

Alignment:

```
AAAAGTCCACAGTCCAAAGT
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

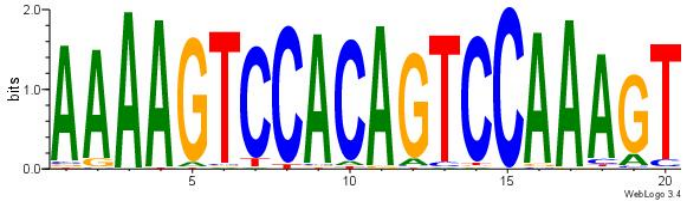

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

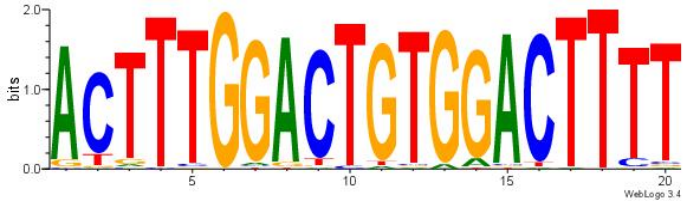

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.13057

Alignment:
TAAAAGACTACAWATTGGGT
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

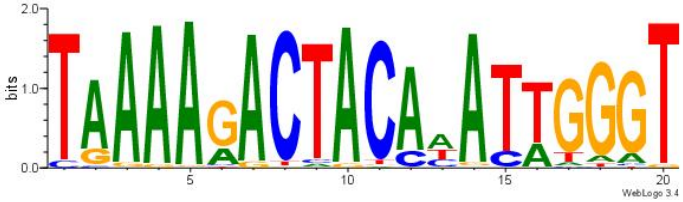

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

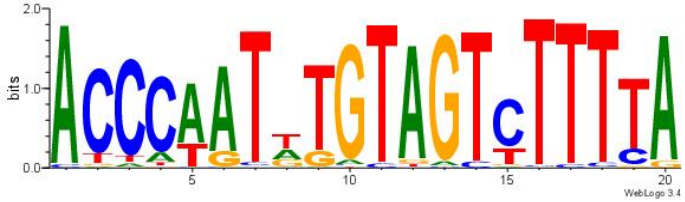

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.130739

Alignment:
GGGTCAGGGAGTTCCCTTTC
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

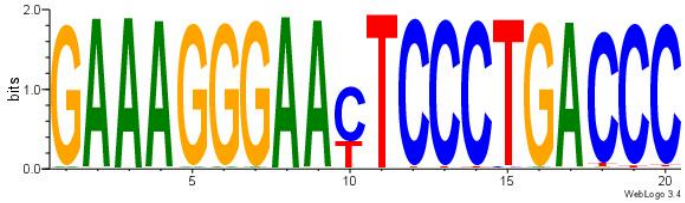

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

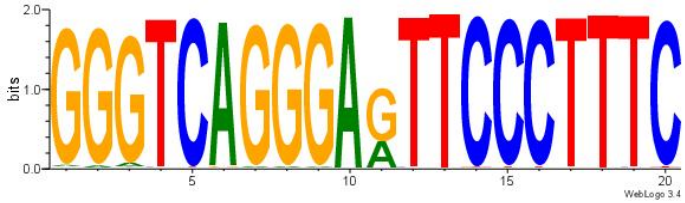

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131364

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

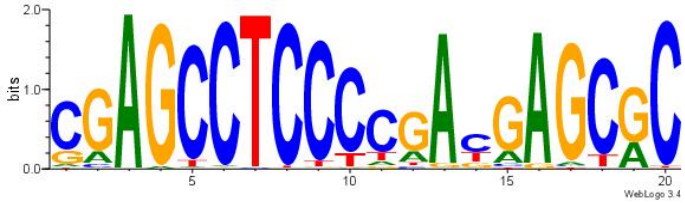

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

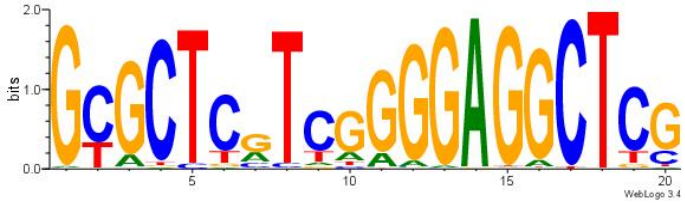

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132659

Alignment:
MGGGATATAATCTCCTGGTG
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

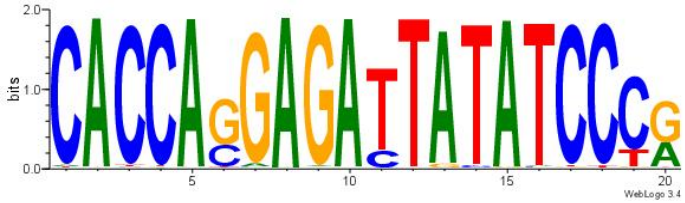

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

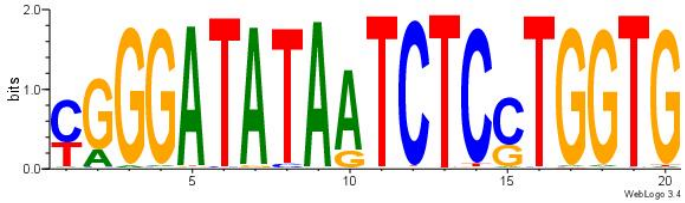

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.132922

Alignment:
AAAATCACAAGCATTCCTAT
ARCTCCTGKSCTCAAGKGAT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

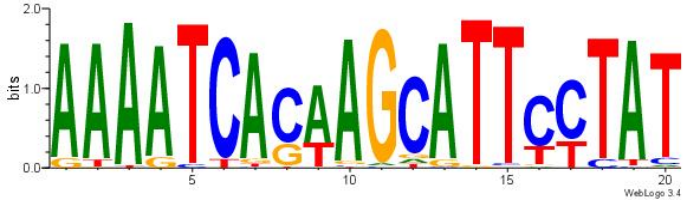

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

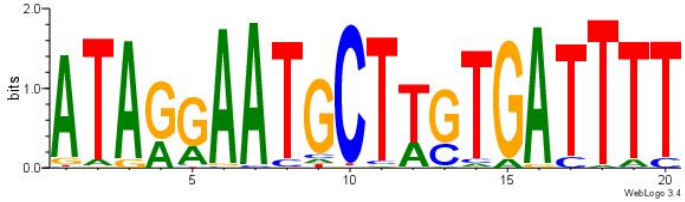

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133456

Alignment:
CAAGTTGACACATAAAATTA
ATCRCTTGAGSYCAGGAGKT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

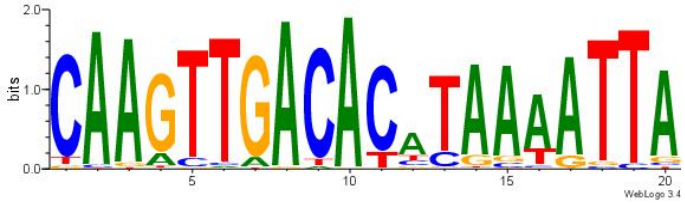

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

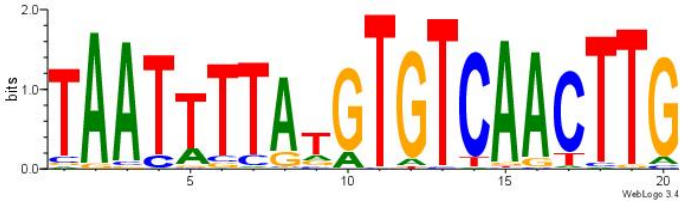

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134467

Alignment:

```
AAGCAGGGCGAGGCATTGCC
ARCTCCTGKSCTCAAGKGAT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

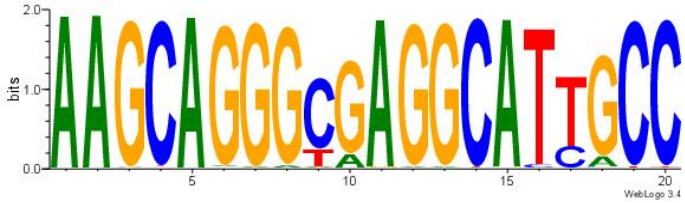

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

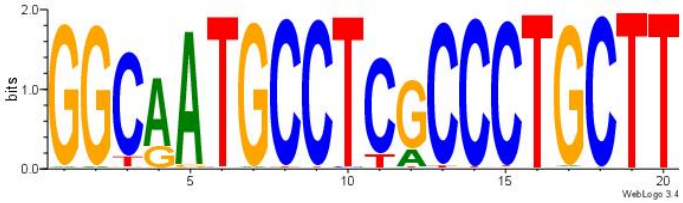

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134723

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
ATCRCTTGAGSYCAGGAGKT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

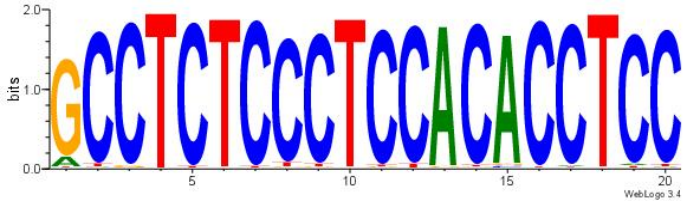

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

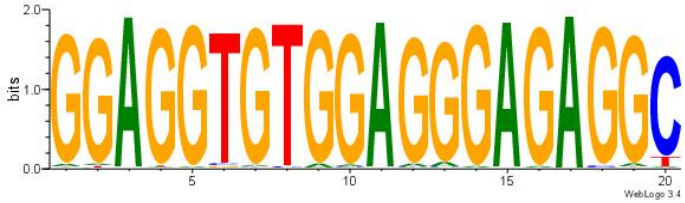

Dataset #: 1 Motif ID: 9 Motif name: Motif 9

Original motif Consensus sequence: CACATGGAGC

Reverse complement motif Consensus sequence: GCTCCATGTG

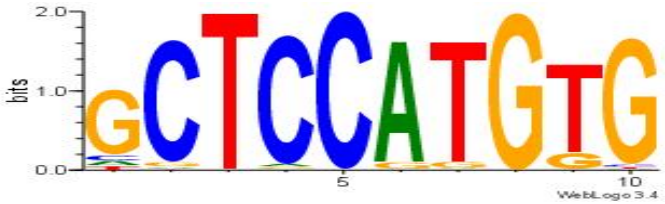

Best Matches for Motif ID 9 (Highest to Lowest)

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0442841

Alignment:

```
GCTTCCATGTG
-GCTCCATGTG
```

Original motif Consensus sequence: CACATGGAAGC

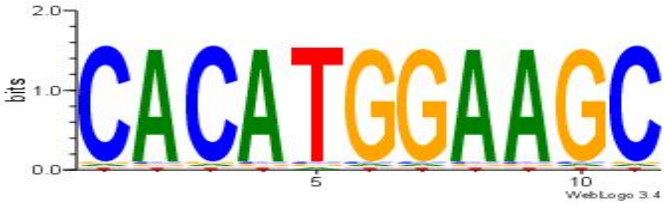

Reverse complement motif Consensus sequence: GCTTCCATGTG

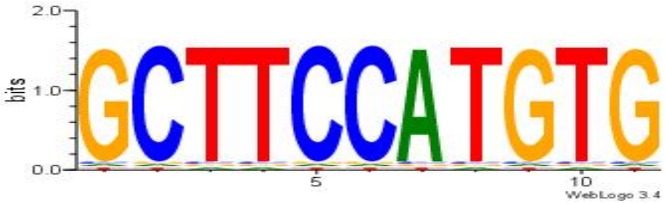

Dataset #: 1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0461936

Alignment:

```
GACATGGAGTCAAAGG
CACATGGAGC------
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

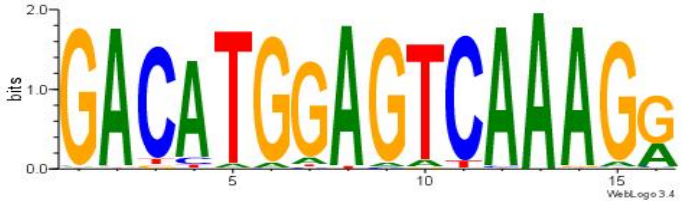

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

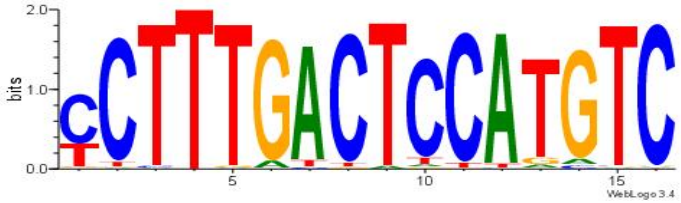

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0487399

Alignment:
CMGCTCCGAGTGCGG
--GCTCCATGTG---

Original motif Consensus sequence: CCGCACTCGGAGCRG

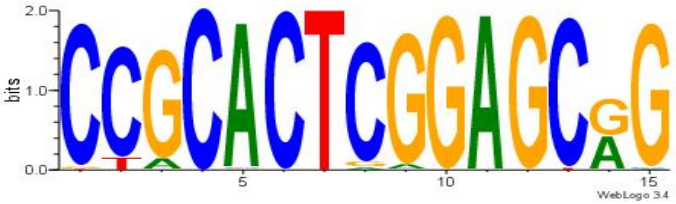

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

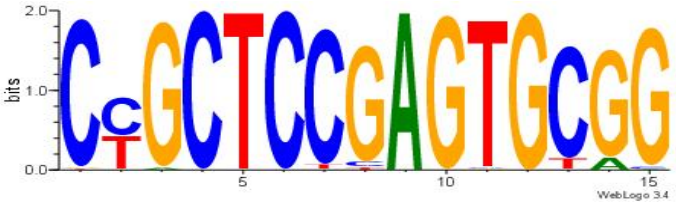

Dataset #: 1
Motif ID: 257
Motif name: Motif 257
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0488667

Alignment:
TGTCCATGTGTTCTC
GCTCCATGTG-----

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

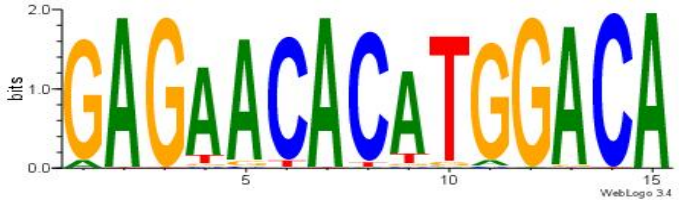

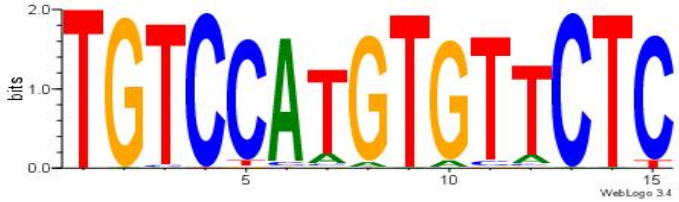

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.048999

Alignment:

```
CATCTGGAGCCCCA
CACATGGAGC----
```

Original motif Consensus sequence: CATCTGGAGCCCCA

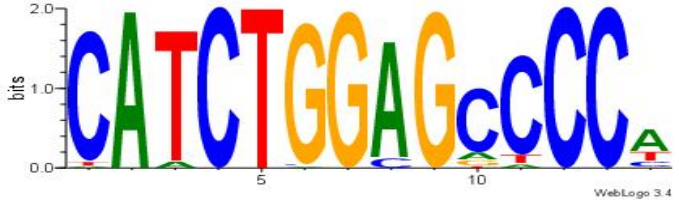

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

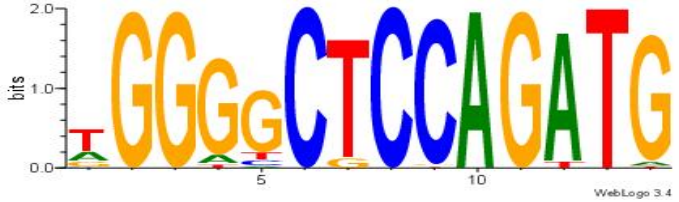

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0497193

Alignment:

```
GCACATGTAYCCYAGAACTT
-CACATGGAGC---------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

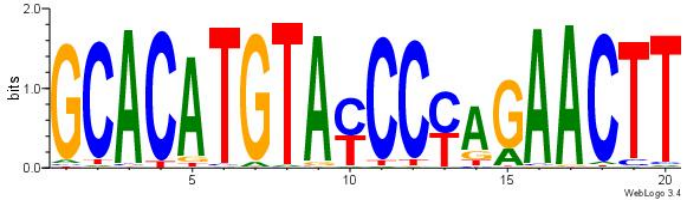

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

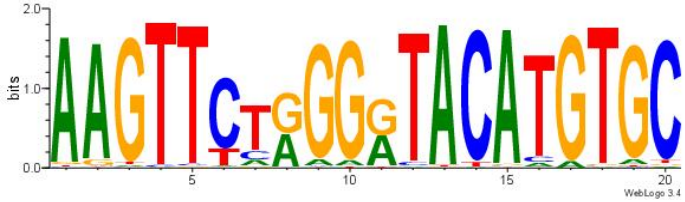

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0505352

Alignment:
GCACATGTCGCT
-CACATGGAGC-

Original motif Consensus sequence: AGCGACATGTGC

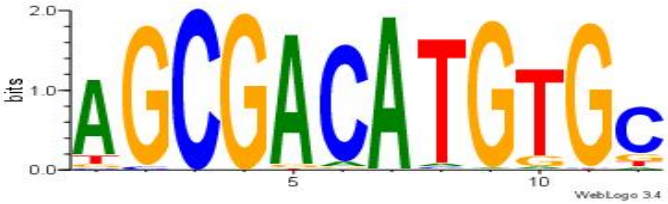

Reverse complement motif Consensus sequence: GCACATGTCGCT

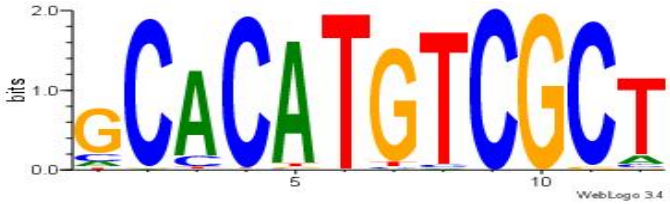

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0559674

Alignment:
AAGGTCCATGTAG
--GCTCCATGTG-

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

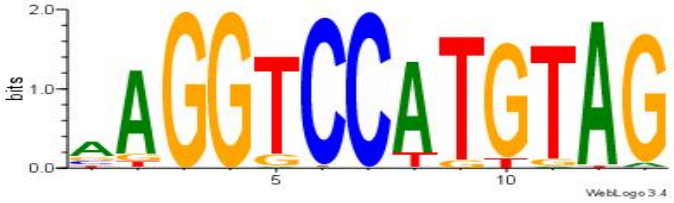

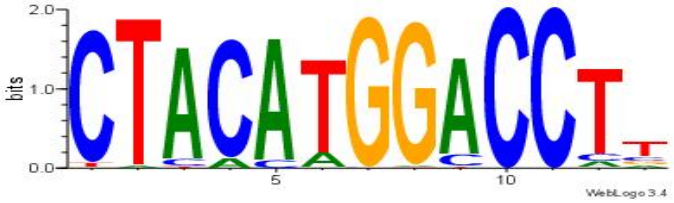

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0583991

Alignment:

```
GGAGCCCACGGAGG
----CACATGGAGC
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

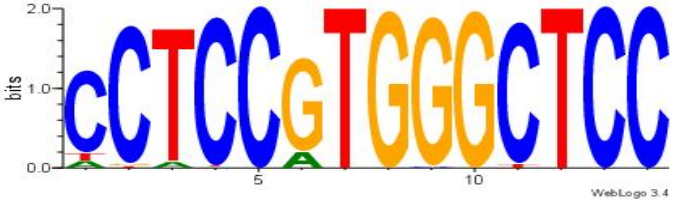

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

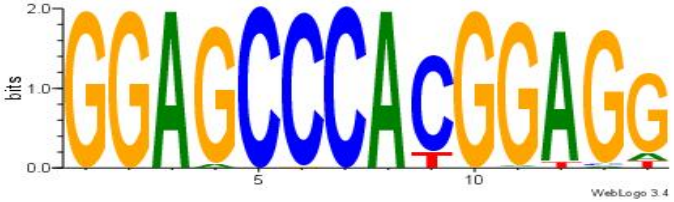

Dataset #:	1
Motif ID:	96

Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0636993

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-------GCTCCATGTG---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

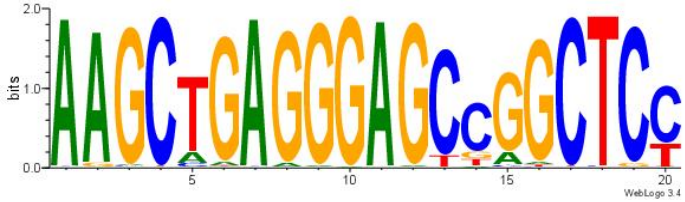

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

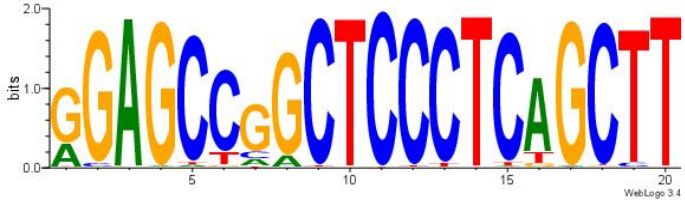

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0667698

Alignment:
ACGCCCACGGAGTCTC
---CACATGGAGC---

Original motif Consensus sequence: ACGCCCACGGAGTCTC

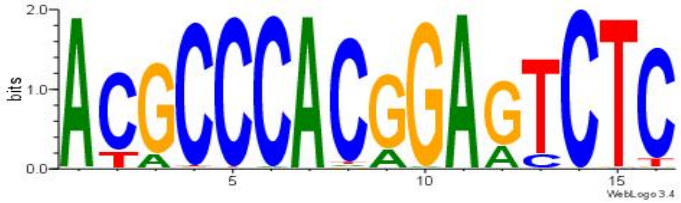

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

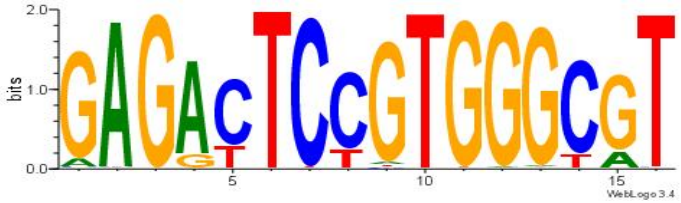

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0668187

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCTCCATGTG---------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

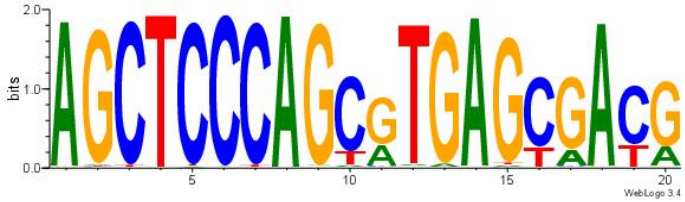

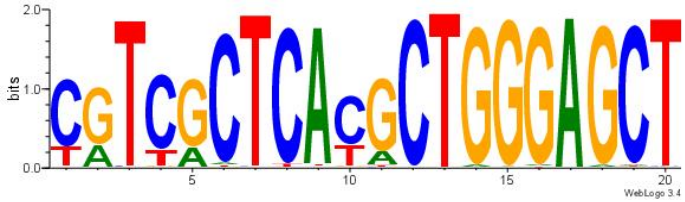

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0672379

Alignment:

```
GTCCCATCGACCACCCAAG
--CACATGGAGC-------
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

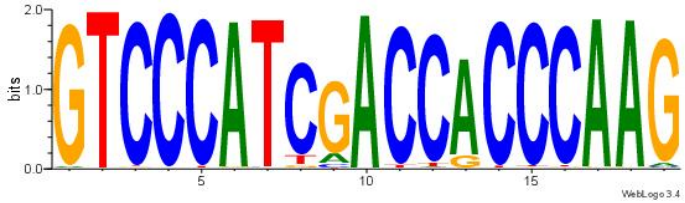

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

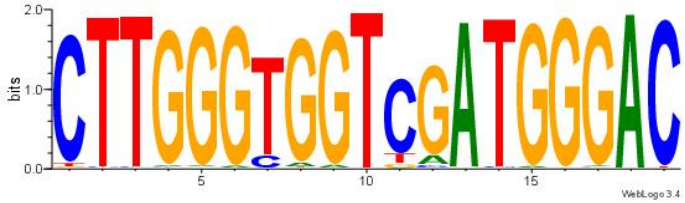

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0689957

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-GCTCCATGTG---------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

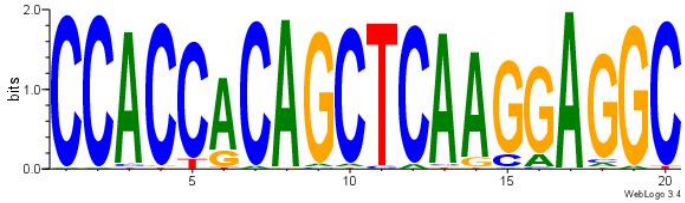

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

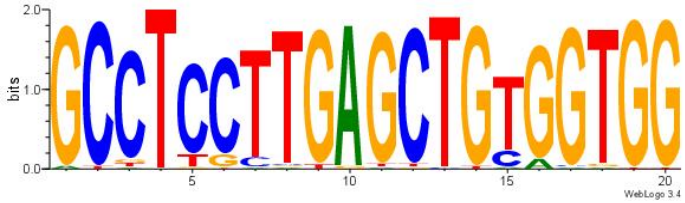

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0694679

Alignment:
GCGCACGGCGCGG
-CACATGGAGC--

Original motif Consensus sequence: GCGCACGGCGCGG

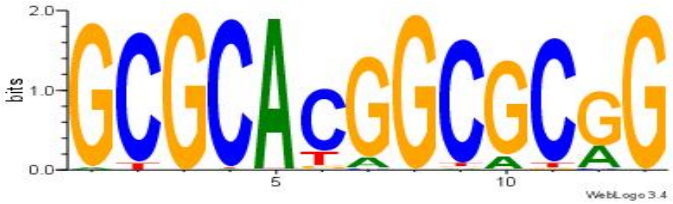

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

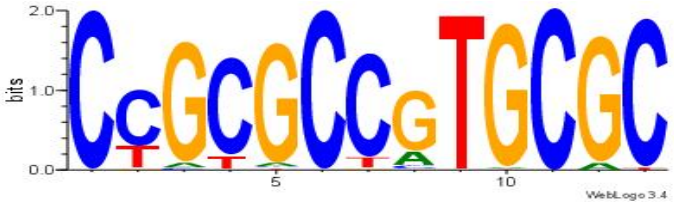

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0702751

Alignment:
TAGATAATAGCTCCAGCTTT
---------GCTCCATGTG-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

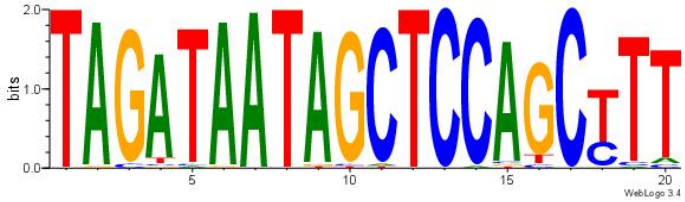

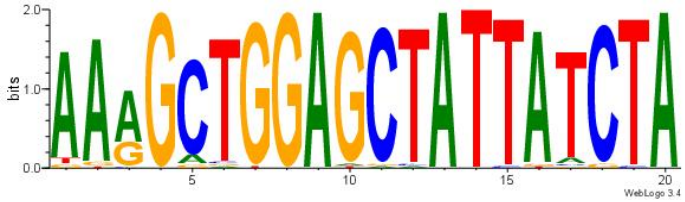

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0709825

Alignment:

```
CTCCAGKTMCATCCATGTTG
---------GCTCCATGTG-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

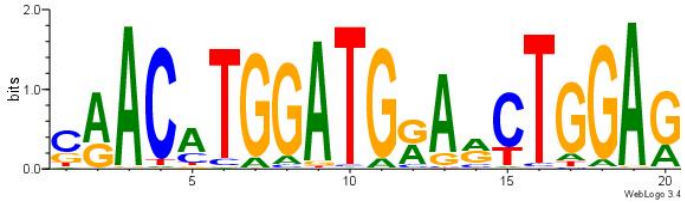

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

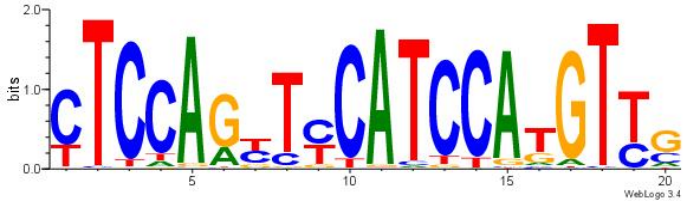

Dataset #:	1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.071301

Alignment:

```
GACCTGCAGCCCGCCATG
CACATGGAGC--------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

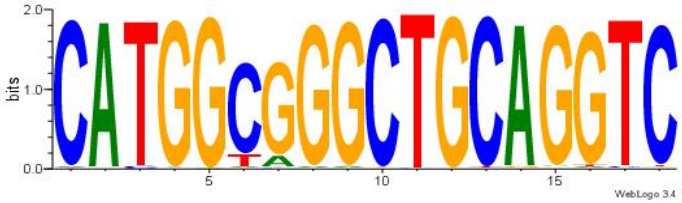

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

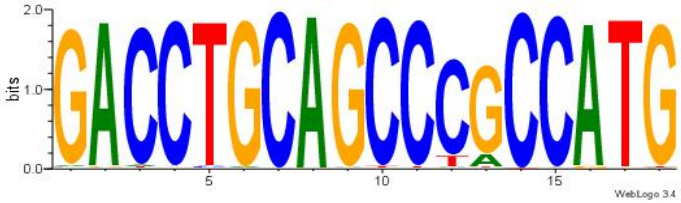

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0714742

Alignment:
AGTTCCGGGTGGGCGTGGG
-GCTCCATGTG--------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

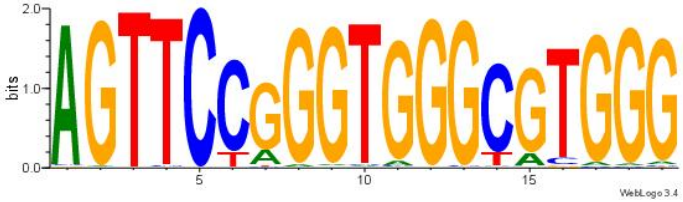

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

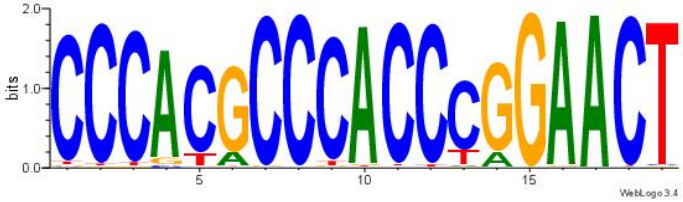

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0717198

Alignment:
TGCTCACACAAAGCCTGT
----CACATGGAGC----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

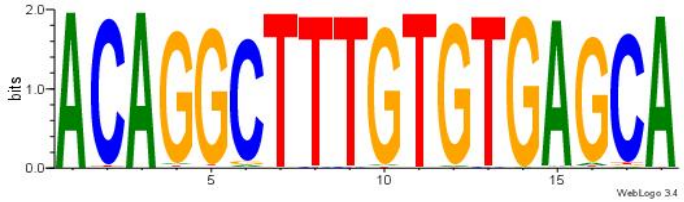

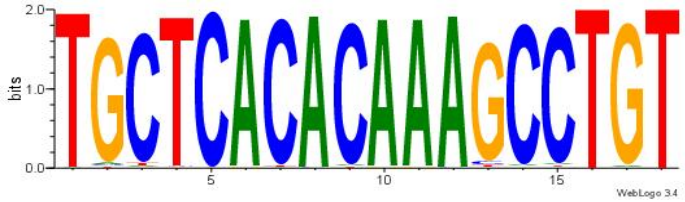

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0728549

Alignment:

```
GCTCCACCCAGTTCGAGCTT
--------CACATGGAGC--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

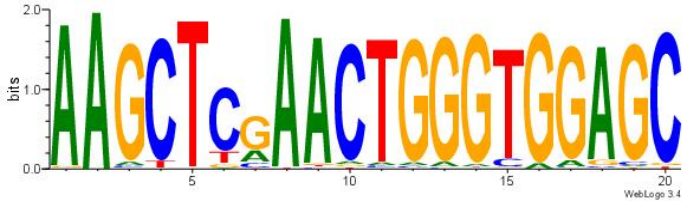

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

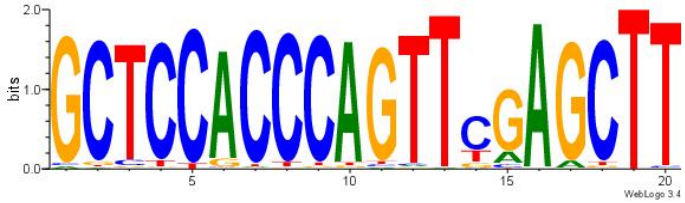

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0732224

Alignment:

```
CGGCGCTGMGCTCGATTTCT
---------GCTCCATGTG-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

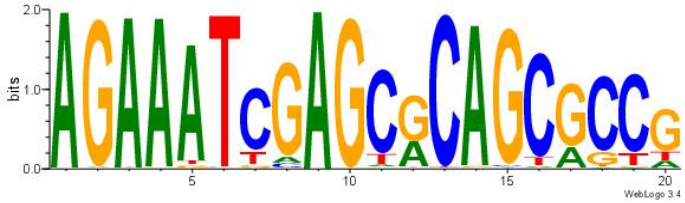

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

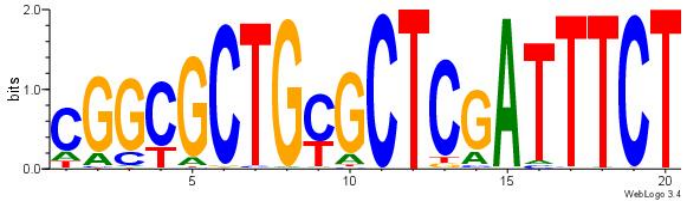

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0748019

Alignment:
CACCAGGAGATTATATCCCR
CACATGGAGC----------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

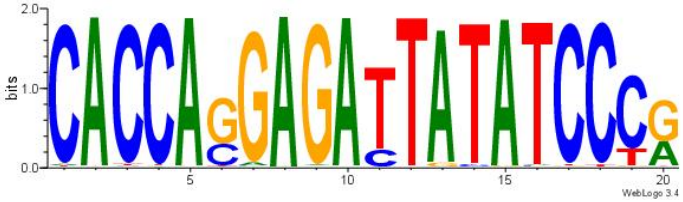

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

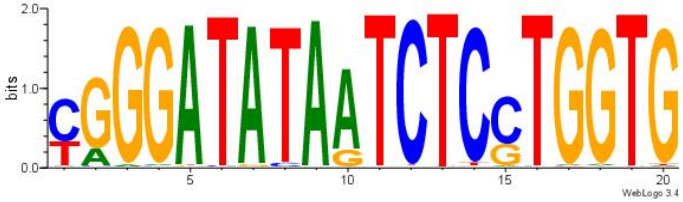

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0756873

Alignment:
GCTTCTGGTGAGGGC
GCTCCATGTG-----

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

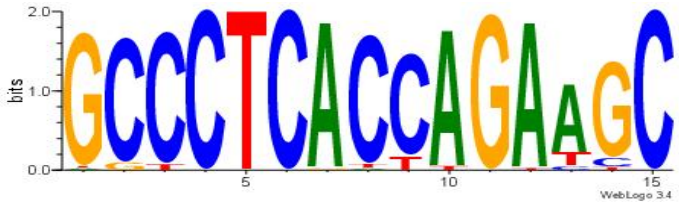

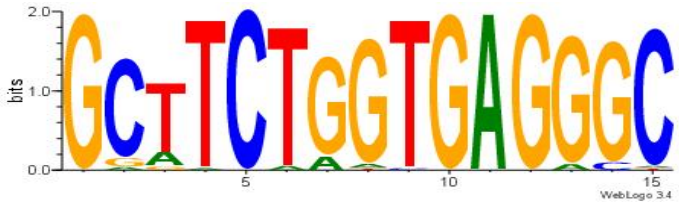

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0766837

Alignment:

```
CATTTCCAWCTGAGGTAC
--GCTCCATGTG------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

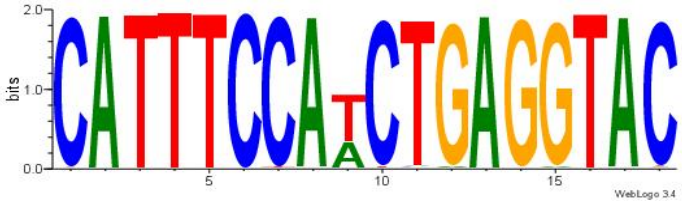

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

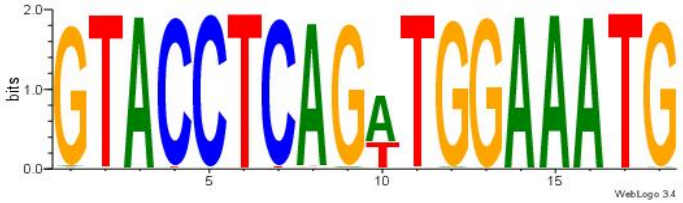

Dataset #:	1

Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0774186

Alignment:

```
CGCCCCGTCTGGGAAGTG
-GCTCCATGTG-------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

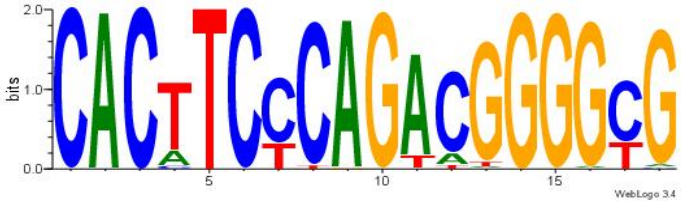

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

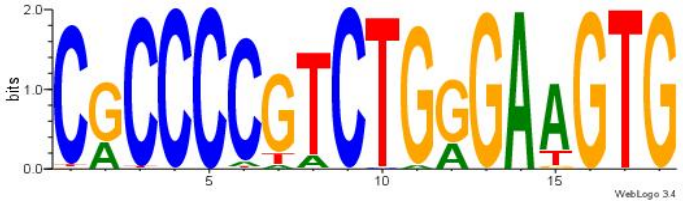

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0789719

Alignment:
AGCTAGAYACAGAGTGC
-------CACATGGAGC

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

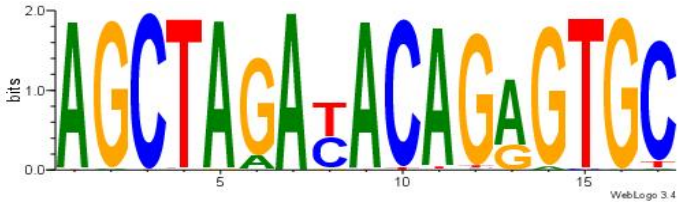

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

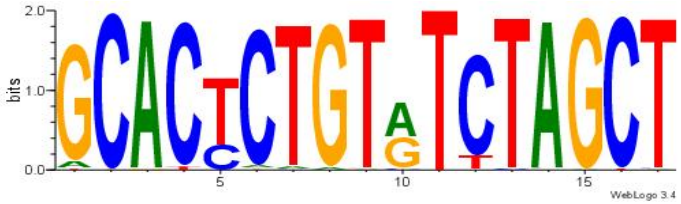

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0807048

Alignment:
KKCACCTTGATCTTGGACTT
--CACATGGAGC--------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

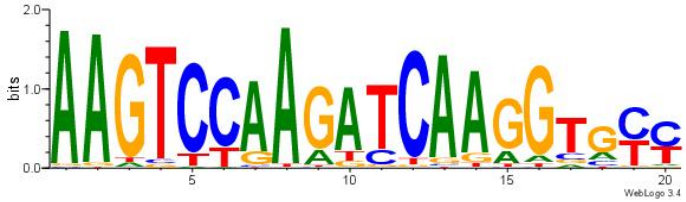

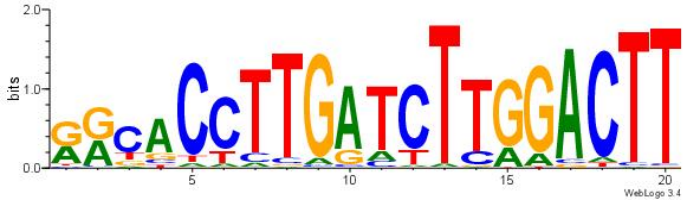

Dataset #:	1
Motif ID:	340
Motif name:	Motif 340
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0811095

Alignment:

```
GACCCAGAGAGC
--CACATGGAGC
```

Original motif Consensus sequence: GACCCAGAGAGC

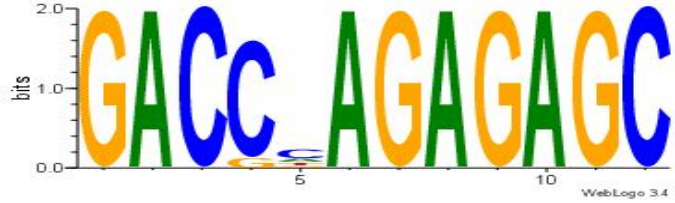

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

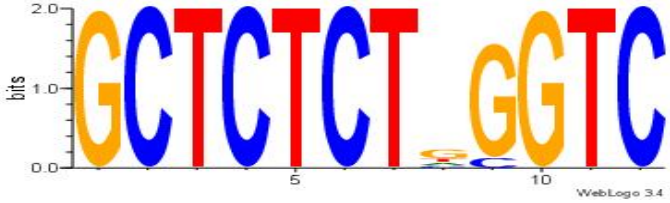

Dataset #:	1
Motif ID:	61

Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0819526

Alignment:

```
TGGCTTCACCCAGTGGATCC
---------CACATGGAGC-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

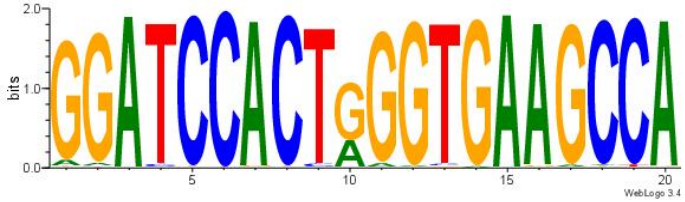

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

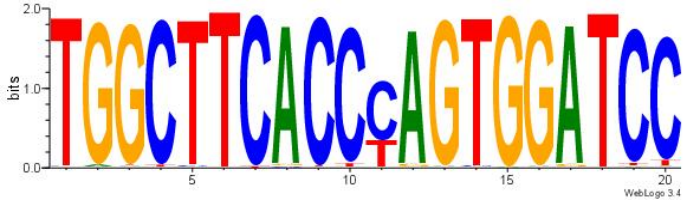

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0836791

Alignment:
ACTCAGCCCRCCTGCACCC
--------CACATGGAGC-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

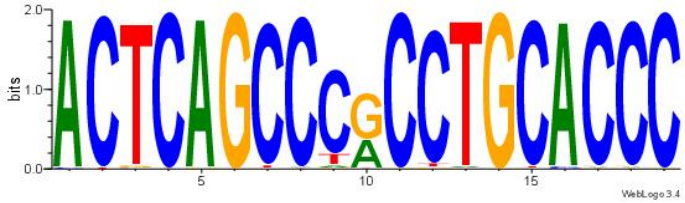

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

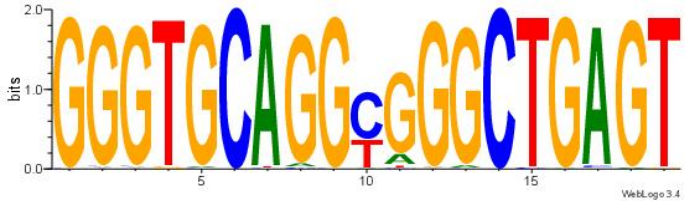

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0845325

Alignment:
GGGAGGTGTCTCCCAGTCAG
--------GCTCCATGTG--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

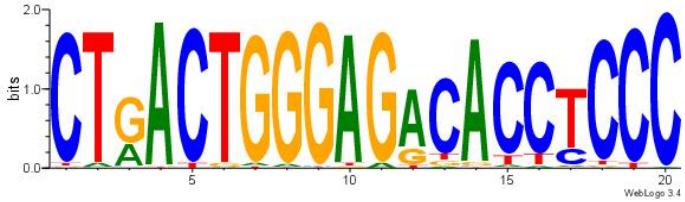

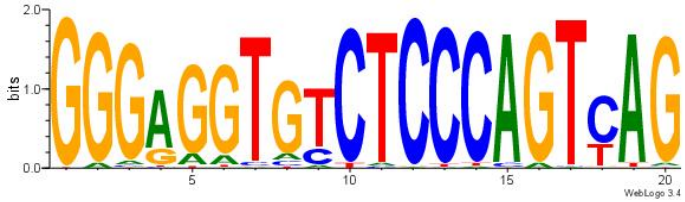

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.085661

Alignment:

```
CCCATGCAAGTCYRAAATCC
CACATGGAGC----------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

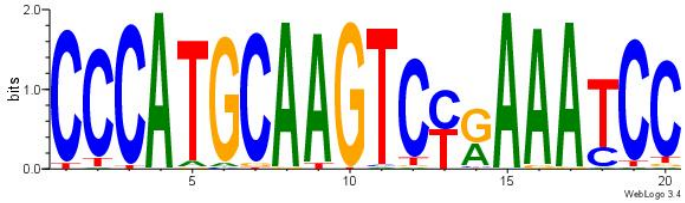

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

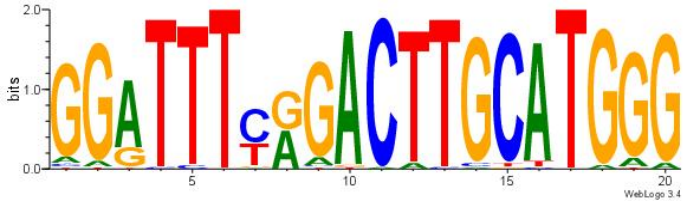

Dataset #:	1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0865043

Alignment:

```
TGHCCTGCKCCCACTGTCT
------GCTCCATGTG---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

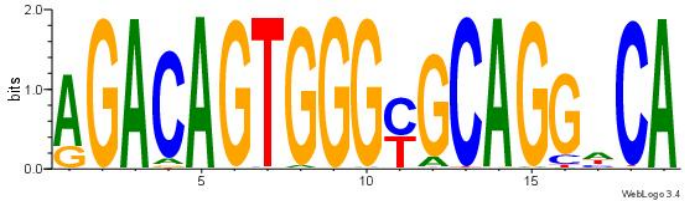

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

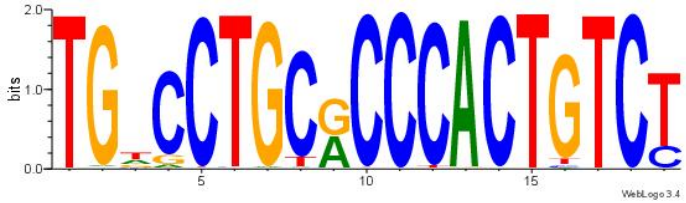

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0870815

Alignment:
GCTTAGCACCYGGGCCAGC
------CACATGGAGC---

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

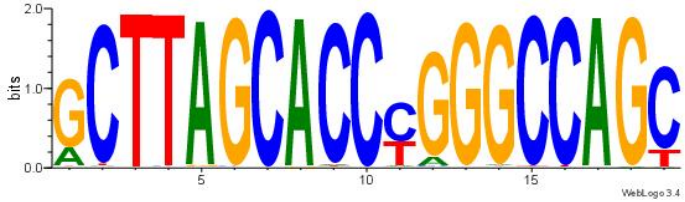

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

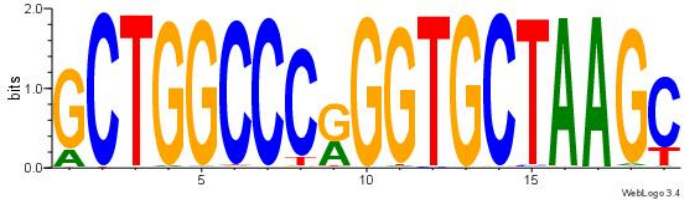

Dataset #: 1
Motif ID: 200
Motif name: Motif 200
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0875682

Alignment:
ACCCCGTCTGGGA
GCTCCATGTG---

Original motif Consensus sequence: ACCCCGTCTGGGA

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

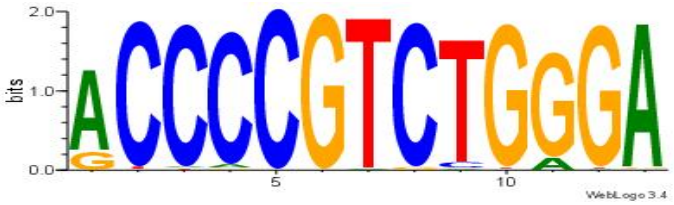

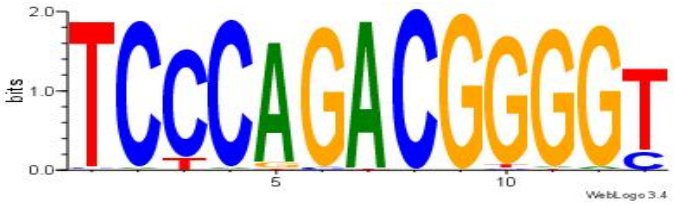

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0879983

Alignment:

```
CTCCATGAAGTC
-CACATGGAGC-
```

Original motif Consensus sequence: CTCCATGAAGTC

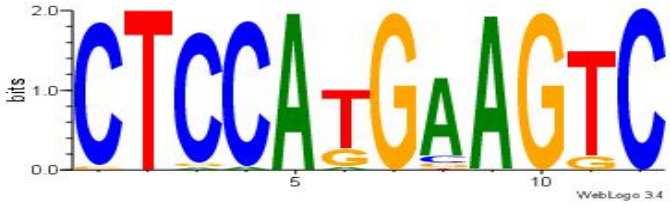

Reverse complement motif Consensus sequence: GACTTCATGGAG

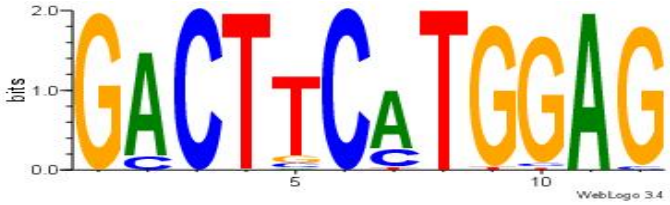

Dataset #:	1
Motif ID:	275

Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0880214

Alignment:

```
CTCACAGAGTTAAA
CACATGGAGC----
```

Original motif Consensus sequence: CTCACAGAGTTAAA

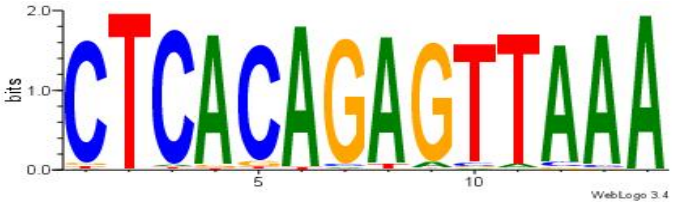

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

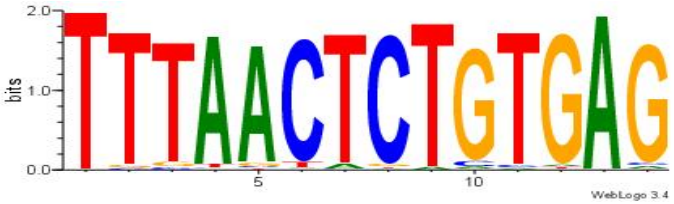

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0881748

Alignment:
GGTGGAGCTGCCTGCCAGTC
------GCTCCATGTG----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

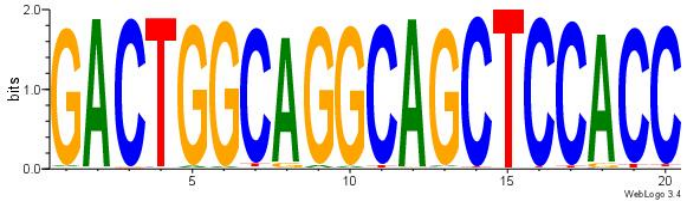

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

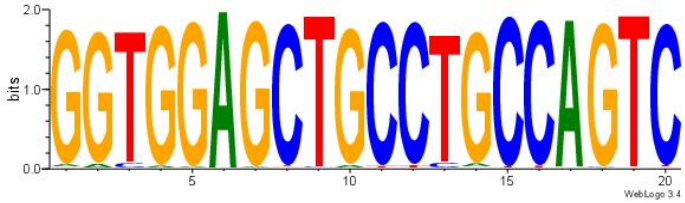

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0882293

Alignment:
ACAGAGTGAGACTCT
-CACATGGAGC----

Original motif Consensus sequence: AGAGTCTCACTCTGT

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

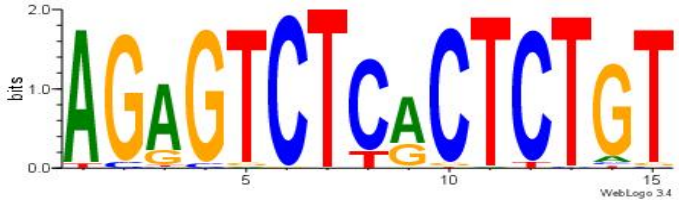

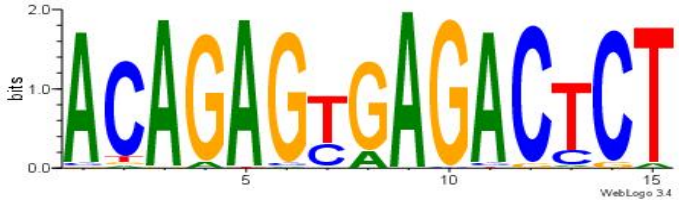

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0882771

Alignment:

```
CGGCTTCATTCTTGAAGTC
--GCTCCATGTG-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

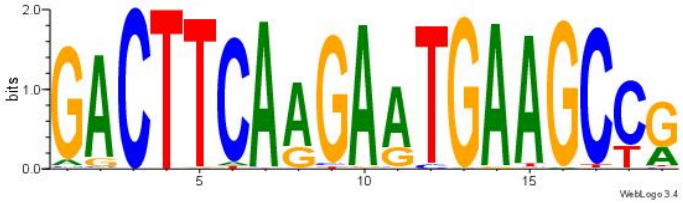

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

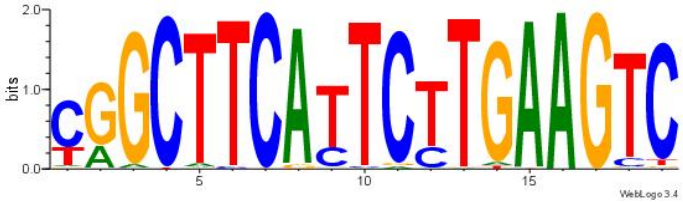

Dataset #:	1

Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0882802

Alignment:

```
GCTCACTGCAASCTC
-----GCTCCATGTG
```

Original motif Consensus sequence: GCTCACTGCAASCTC

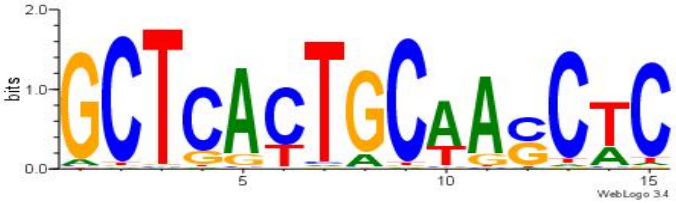

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

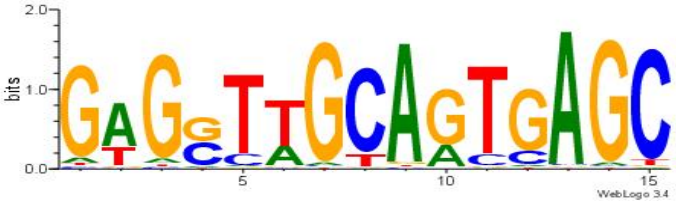

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0884597

Alignment:
TAAAAGACTACAWATTGGGT
----------CACATGGAGC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

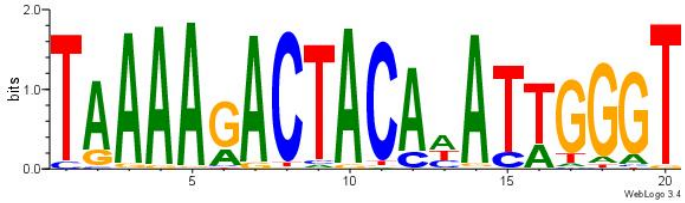

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

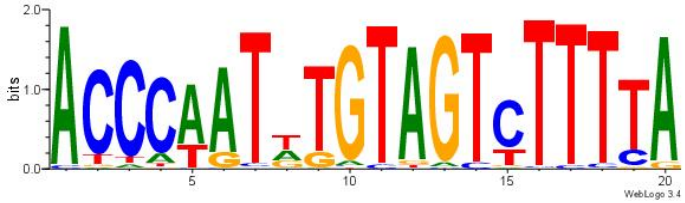

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0899261

Alignment:
AATGACCAATTGAGAGC
-----CACATGGAGC--

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence:
GCTCTCAATTGGTCATT

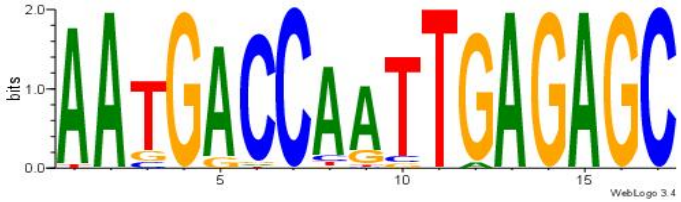

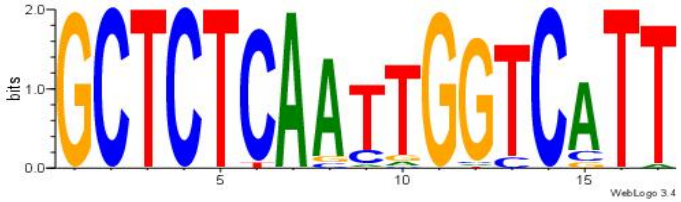

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0902917

Alignment:

```
AGGTTTGTTACATAGGTAWA
------GCTCCATGTG----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

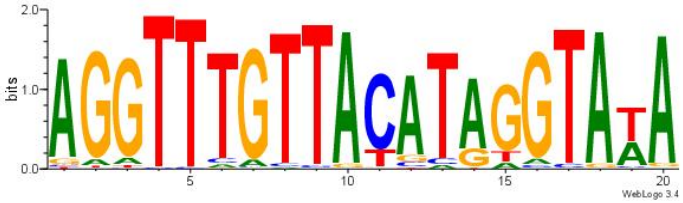

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

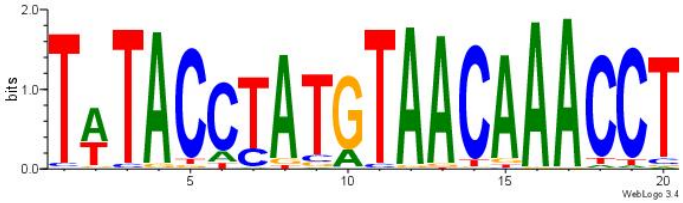

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0903925

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----CACATGGAGC-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

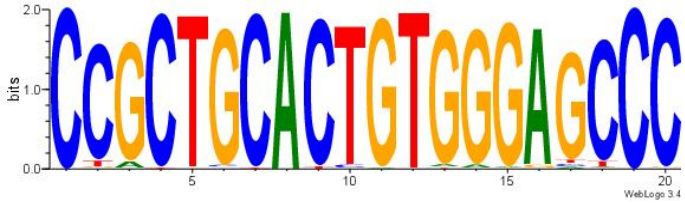

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

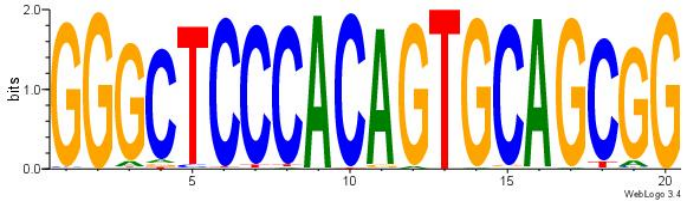

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0904246

Alignment:
CGAGCCTCCCCGAYGAGCGC
--------CACATGGAGC--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

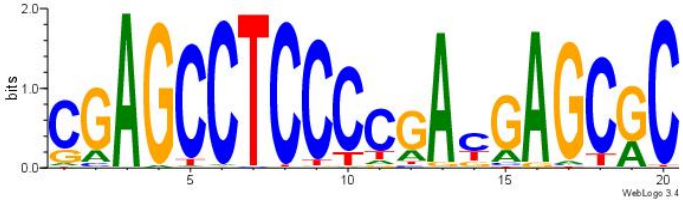

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

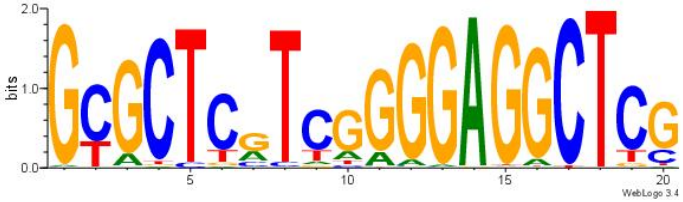

Dataset #: 1
Motif ID: 132
Motif name: Motif 132
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0904275

Alignment:
CAAGATGGCGGC
-CACATGGAGC-

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

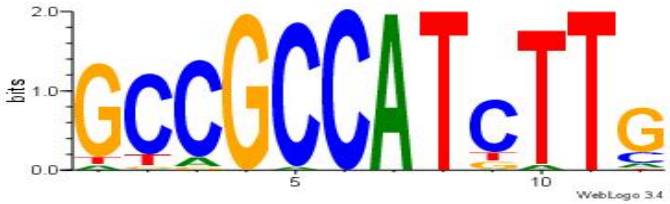

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0916826

Alignment:

```
AGATGCCAGCCAGAGCTCT
------CACATGGAGC---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

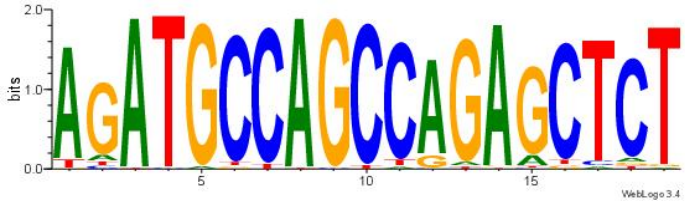

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

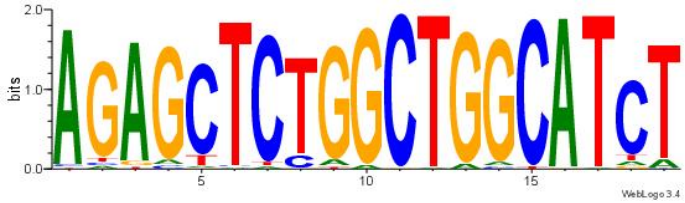

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0918971

Alignment:

```
AAGACCTTCCAGTGGGACAA
----GCTCCATGTG------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

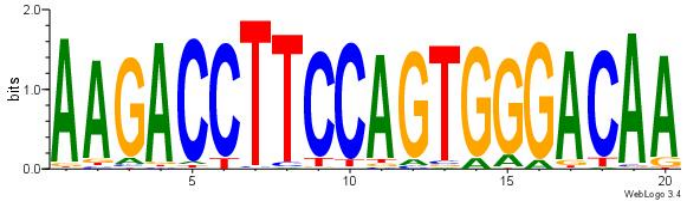

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

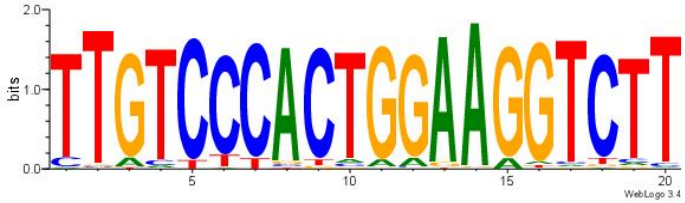

Dataset #: 1 Motif ID: 10 Motif name: Motif 10

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

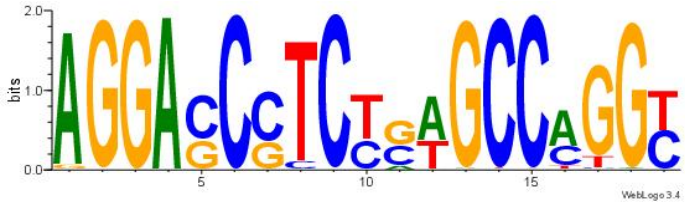

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

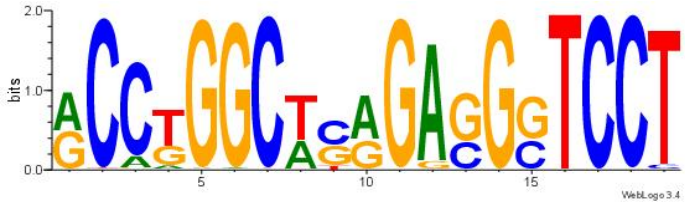

Best Matches for Motif ID 10 (Highest to Lowest)

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0458009

Alignment:
GCCAGGCAGAGRGKCTCCT
MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

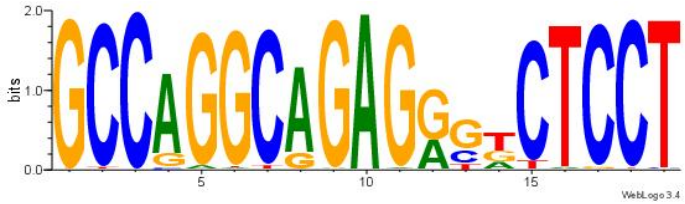

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

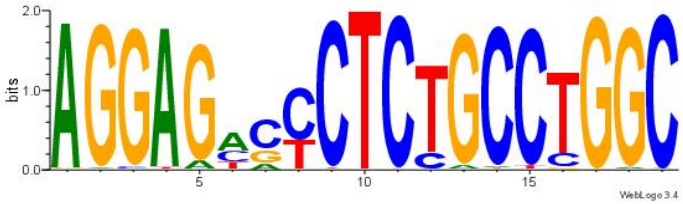

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0489869

Alignment:
AGGAGCGCCTCTKCCCGGC
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

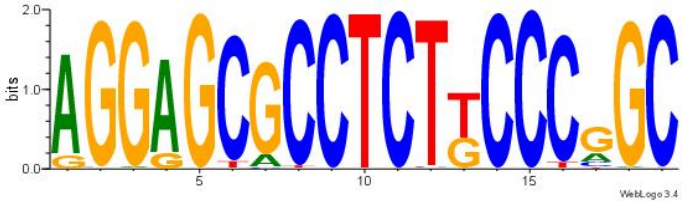

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

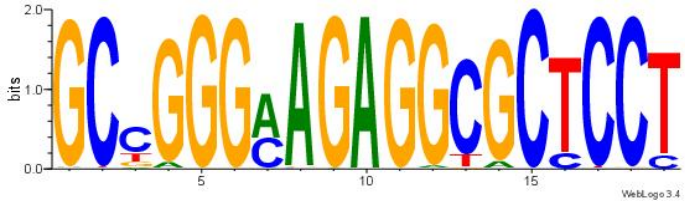

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0576721

Alignment:
CRTGAGCCACYGYRCCYGGC
-AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

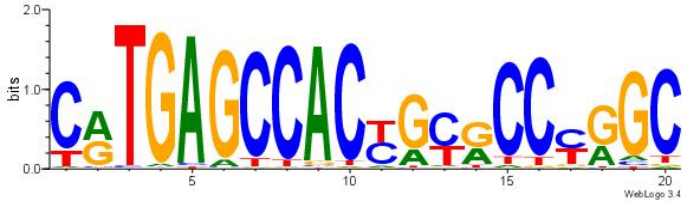

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

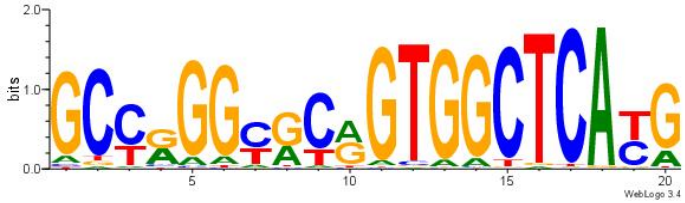

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0673069

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

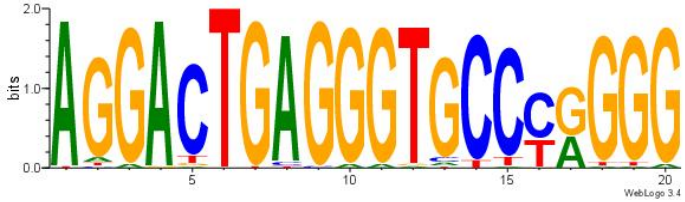

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

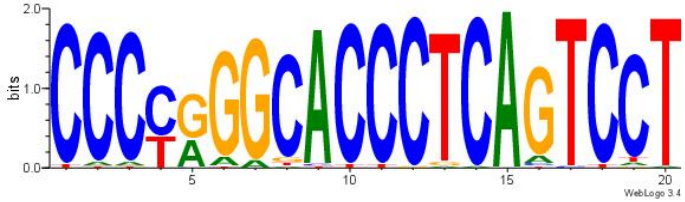

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0821184

Alignment:

```
AGTGACCCGATTTTCCAGGT
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

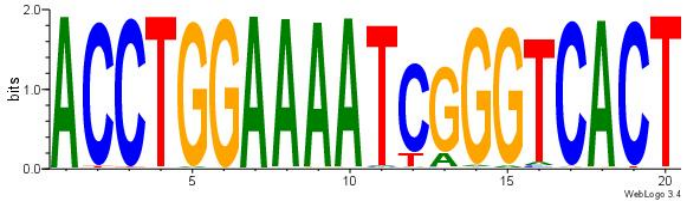

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

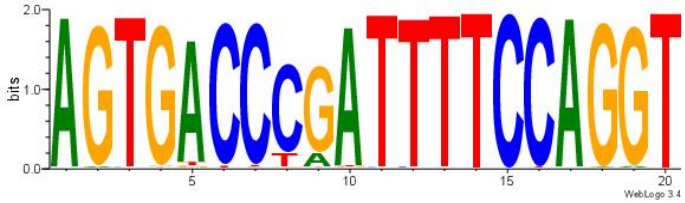

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.0916738

Alignment:
CTGGGCTCCTGAGTCTGGTG
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

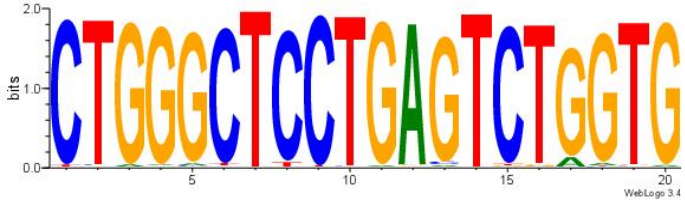

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

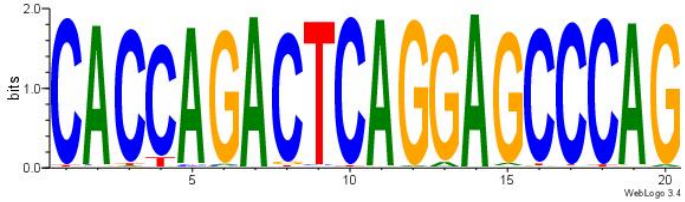

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.0938628

Alignment:
CCCACGCCCACCCGGAACT
MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

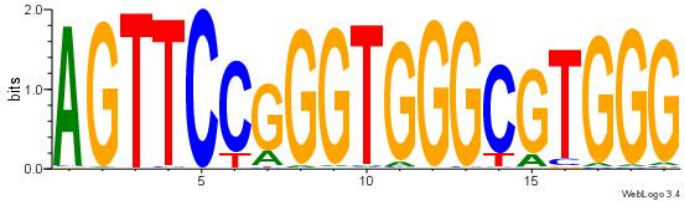

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

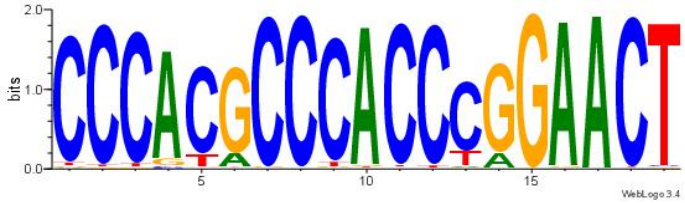

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0951932

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

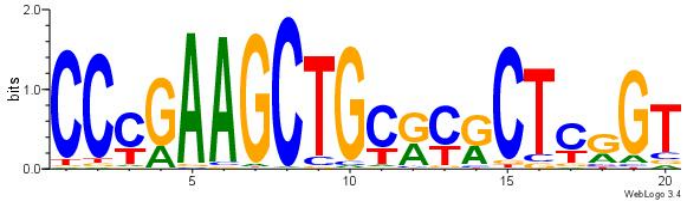

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

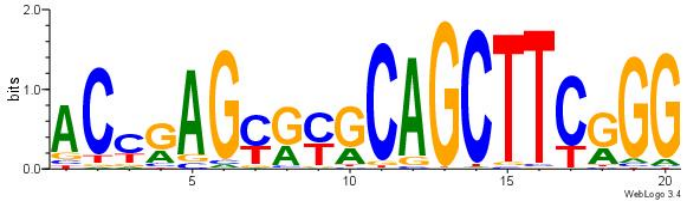

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0995675

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

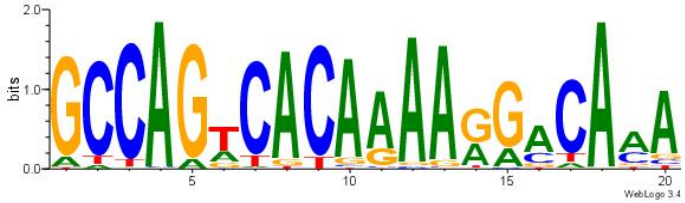

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

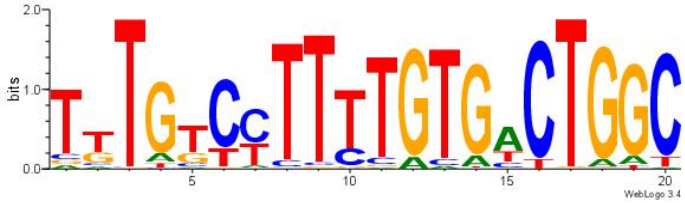

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.0996306

Alignment:
GAAGGCAGCTAAGGCCCGGY
-AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

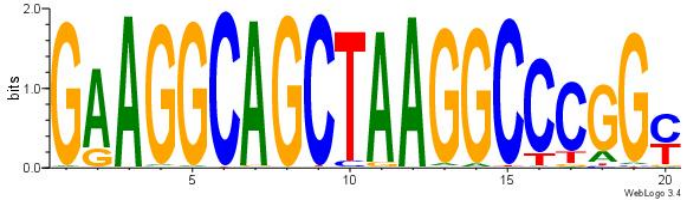

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

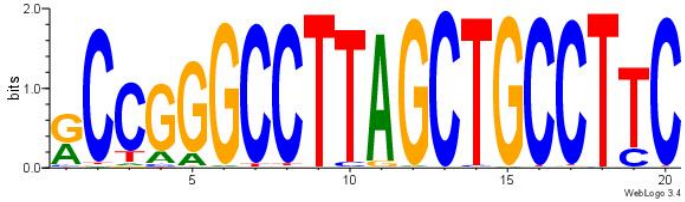

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.0996858

Alignment:
AGGCCCCAGTGTSTGTTGTT
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

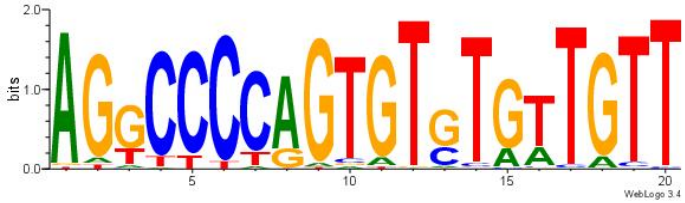

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

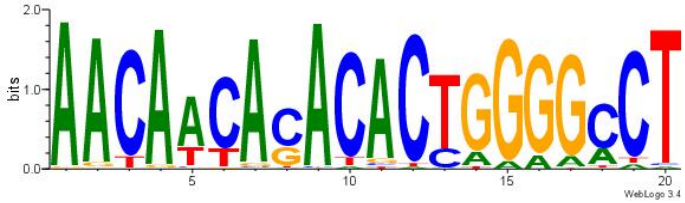

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.101684

Alignment:

```
CCGCTGCACTGTGGGAGCCC
MCCYGGCWSMGASGSTCCT-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

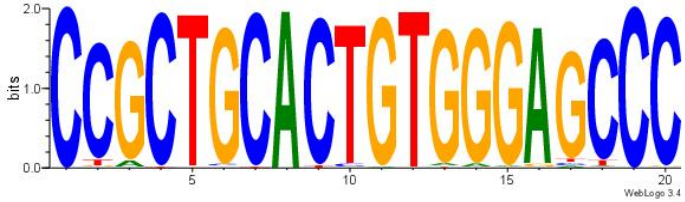

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

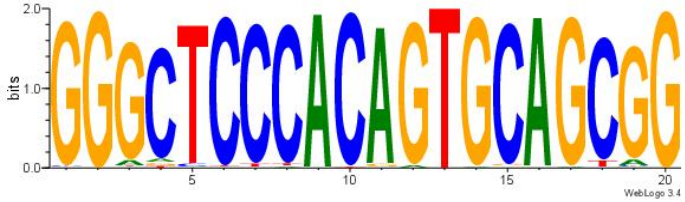

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.101809

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

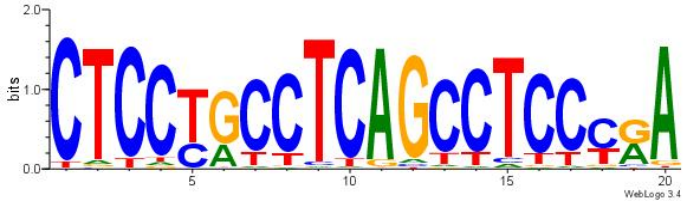

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

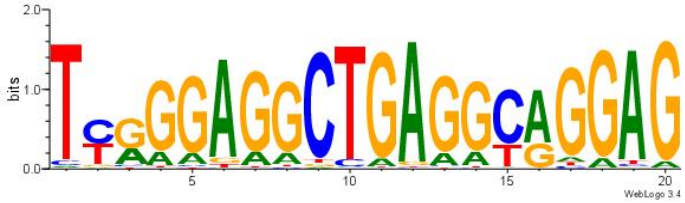

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.101886

Alignment:
GGTGGAGCTGCCTGCCAGTC
-AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

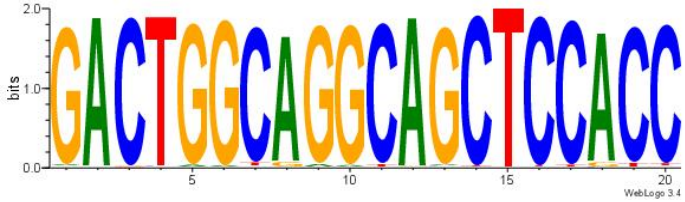

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

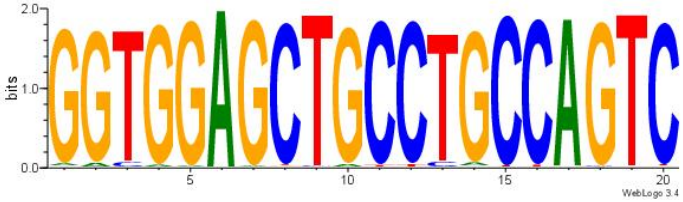

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.102352

Alignment:
ACCKTCGCGGTGAGTGTTAC
-MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

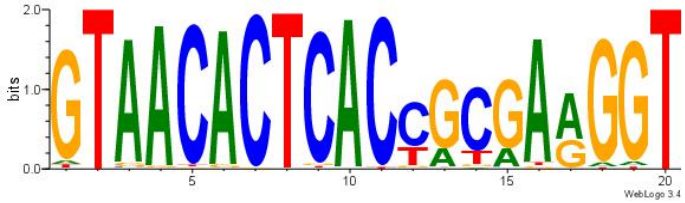

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

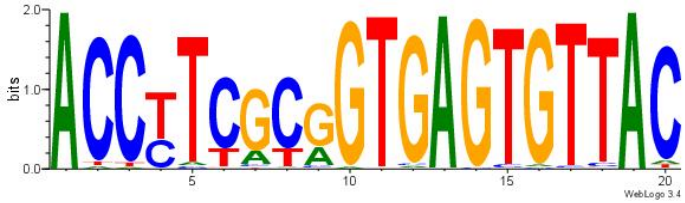

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.102716

Alignment:

```
AGCTCCCAGCGTGAGCGACG
AGGASCSTCYSWGCCMGGY-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

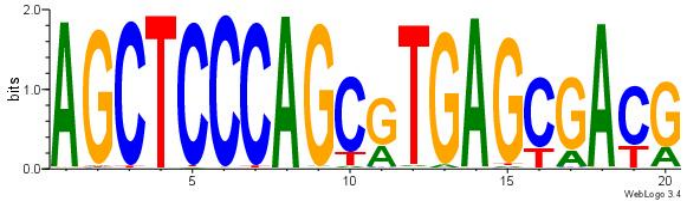

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

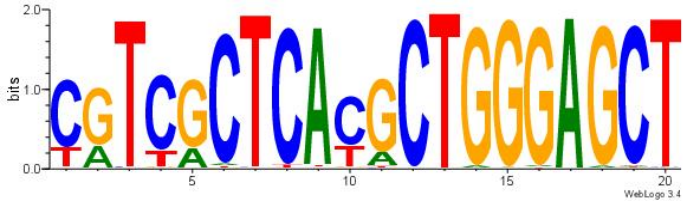

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.104742

Alignment:

```
VMATTTAKTGAGCACCTACT
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

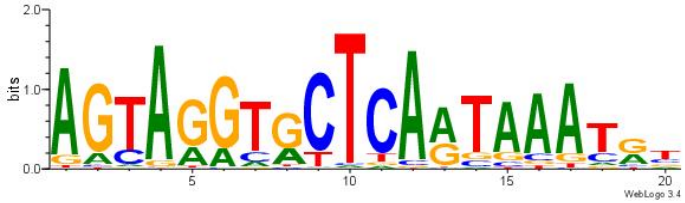

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

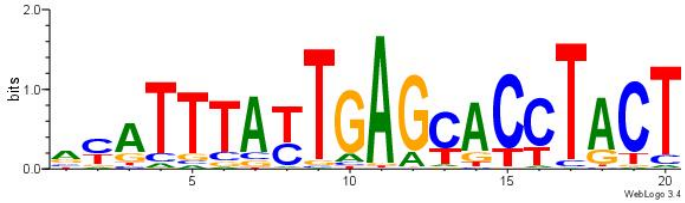

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.104913

Alignment:
GTGGCCCTCTTCTCACAGCT
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

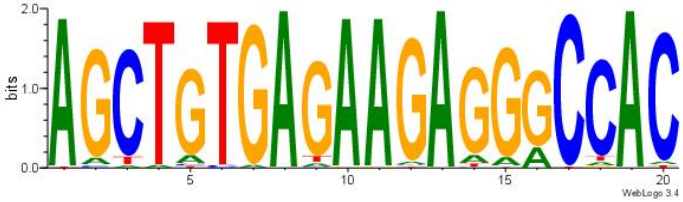

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

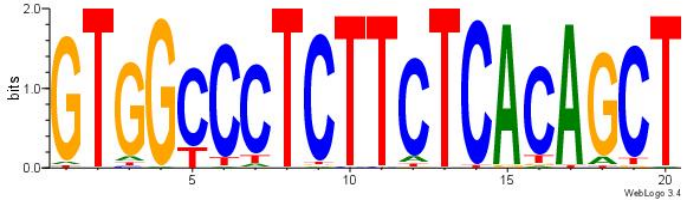

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.105338

Alignment:
AGGAACAGCTCCRGTCTAC
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

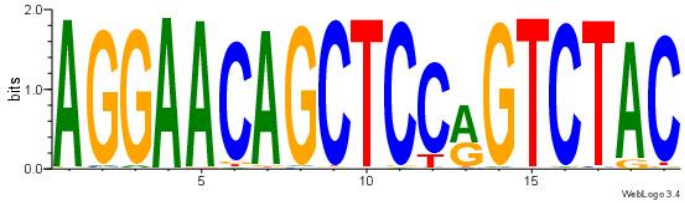

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

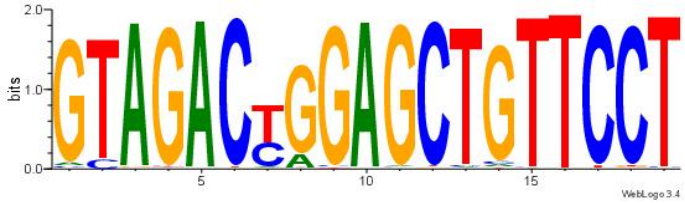

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.10659

Alignment:

```
AGATGCCAGCCAGAGCTCT
MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

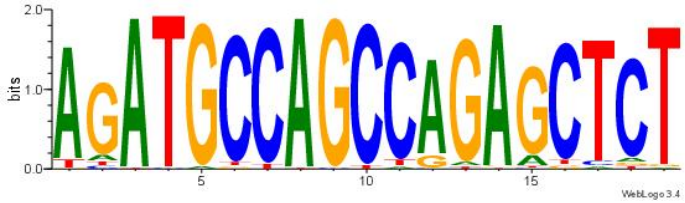

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

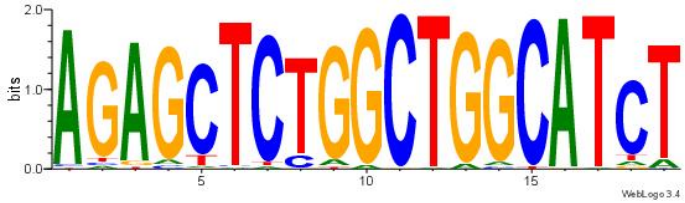

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.107675

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

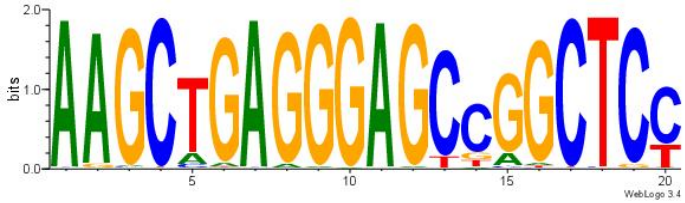

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

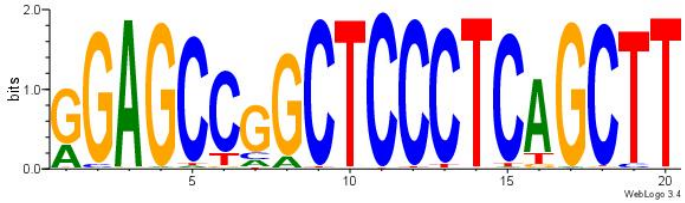

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.107994

Alignment:
CTGGGCRACAGAGYRAGACY
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

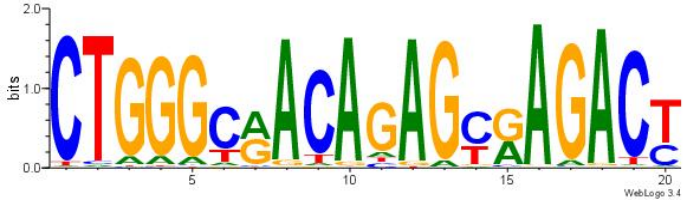

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

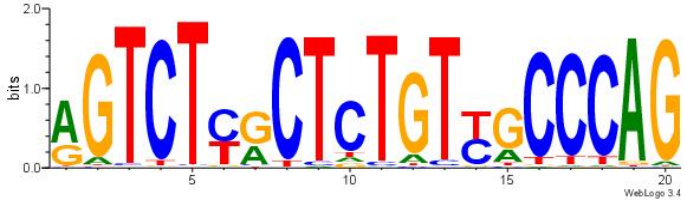

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.108468

Alignment:
ACTCAGCCCRCCTGCACCC
MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

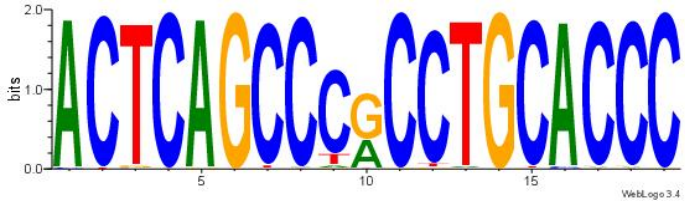

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

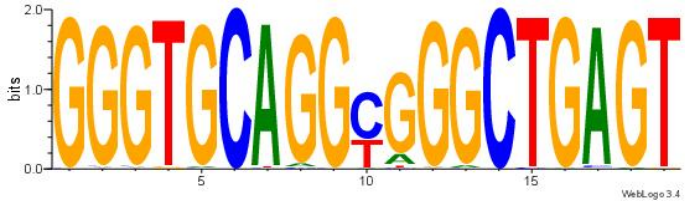

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.108503

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
AGGASCSTCYSWGCCMGGY-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

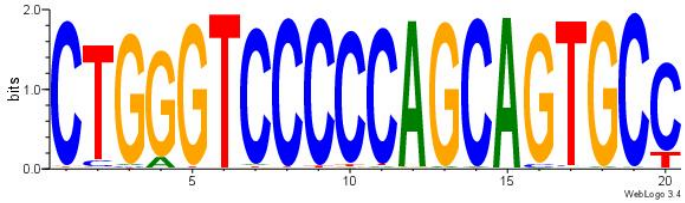

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

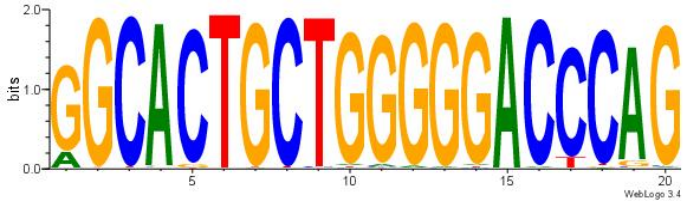

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.108758

Alignment:

```
ATGATCCAGCAATYCCACTH
AGGASCSTCYSWGCCMGGY-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

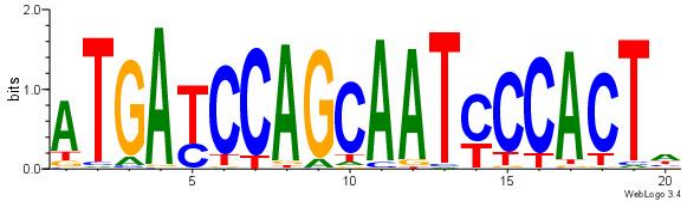

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

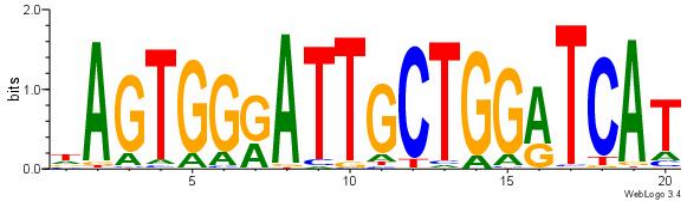

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.112541

Alignment:
GGCAATGCCTCGCCCTGCTT
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

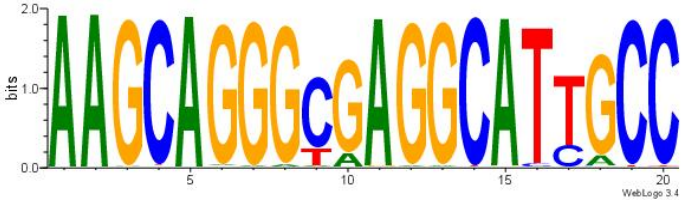

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

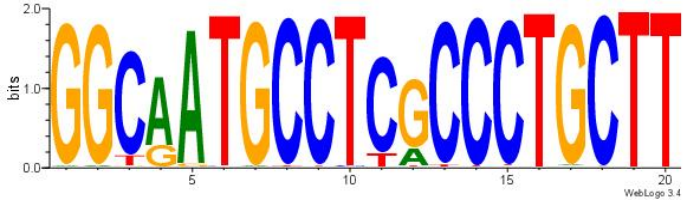

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.112726

Alignment:
TAAAAGACTACAWATTGGGT
-AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

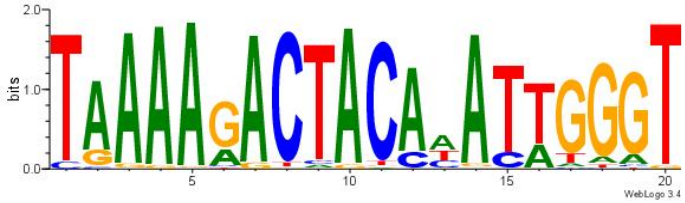

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

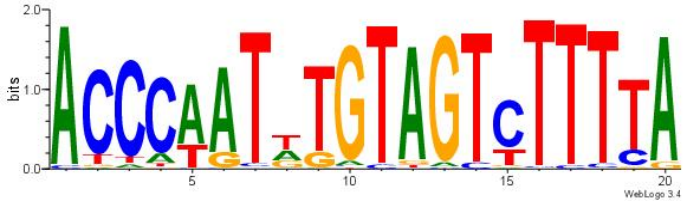

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.113955

Alignment:

```
GAATACCTCCTGAAGGACCT
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

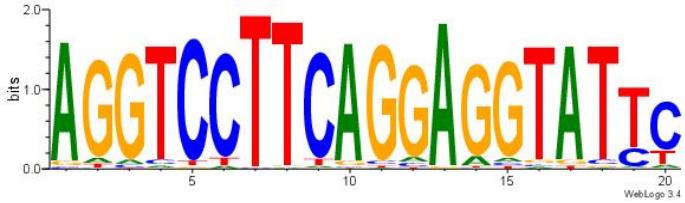

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

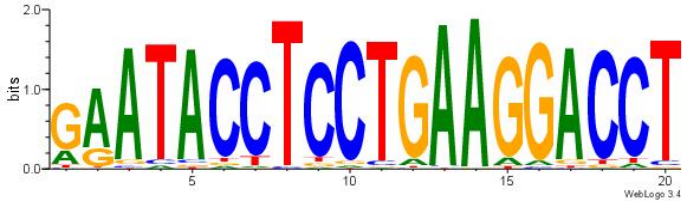

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.116056

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

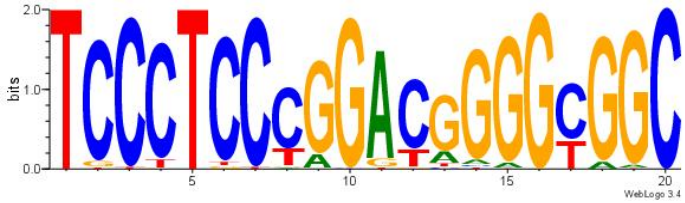

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

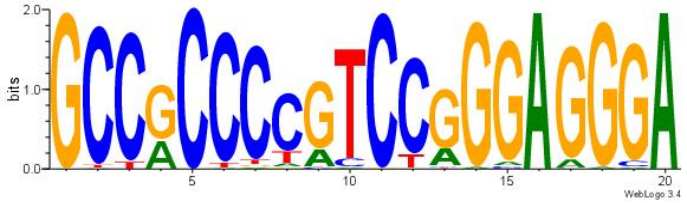

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.116327

Alignment:
ACTTTGGACTGTGGACTTTT
MCCYGGCWSMGASGSTCCT-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

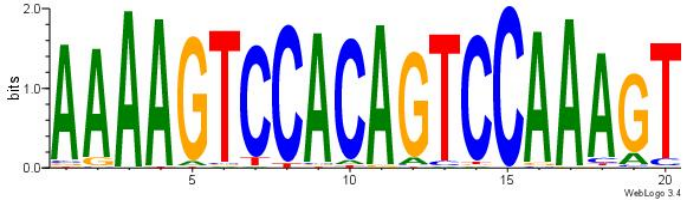

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

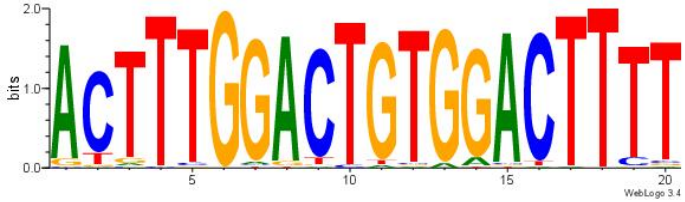

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.117045

Alignment:
AGCCCCGGTTCCCGCYCGC
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

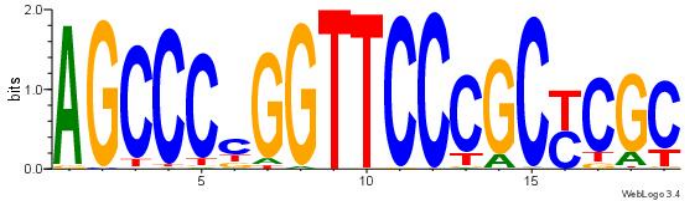

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

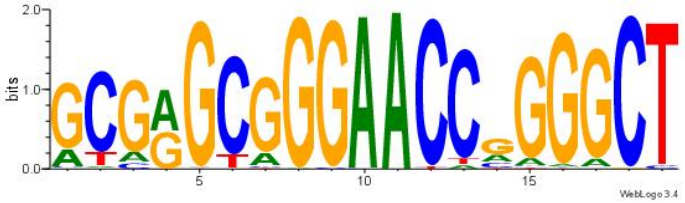

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.117658

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

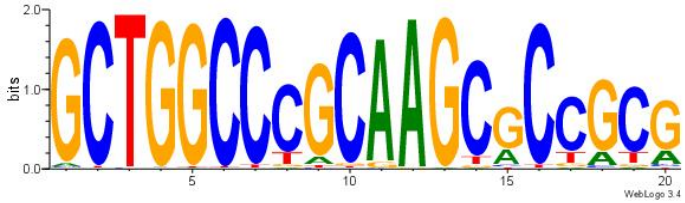

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

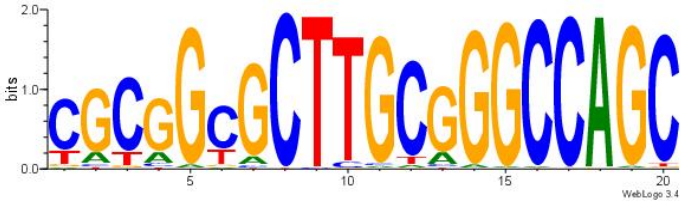

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.117773

Alignment:

```
AAATTACCCAGTCTCAGGTA
AGGASCSTCYSWGCCMGGY-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

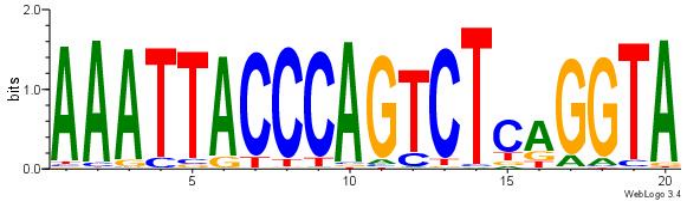

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

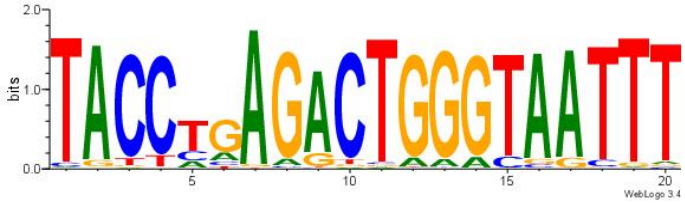

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.118347

Alignment:
GCCACCAMGCCMKGCTAAT
MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

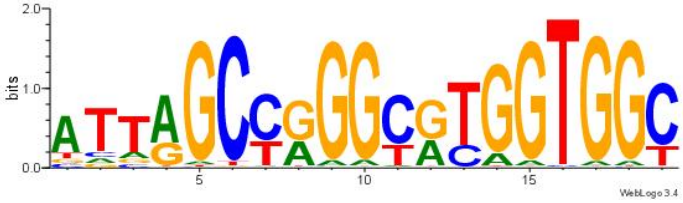

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

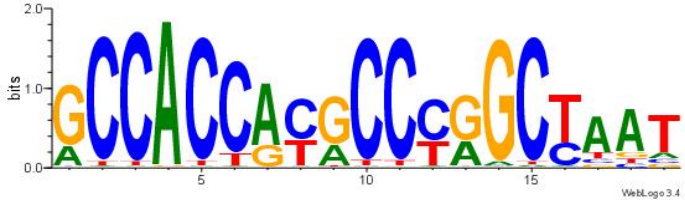

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.118645

Alignment:
GCTTAGCACCYGGGCCAGC
MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

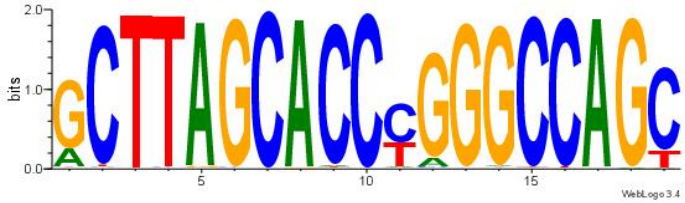

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

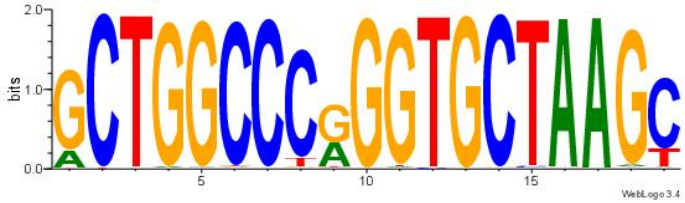

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.11915

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

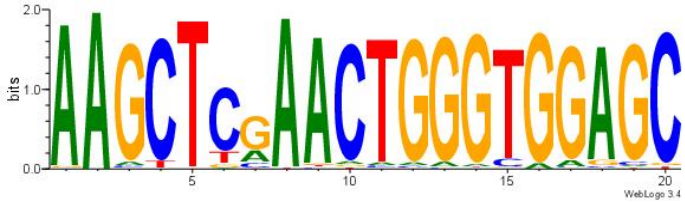

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

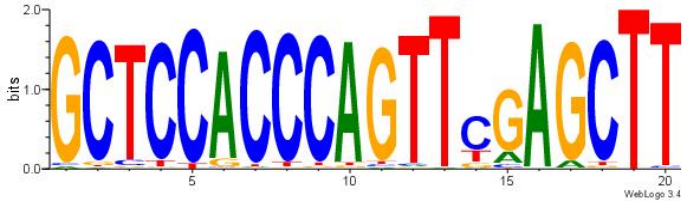

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.119589

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
-MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

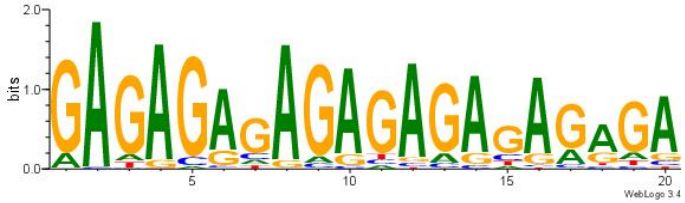

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

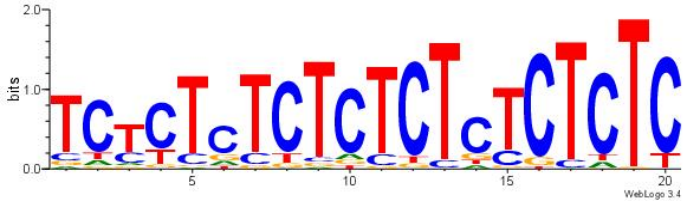

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.119867

Alignment:
MGGGATATAATCTCCTGGTG
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

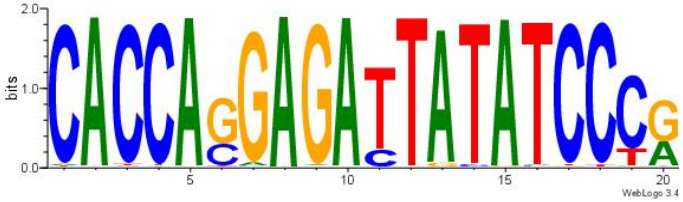

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

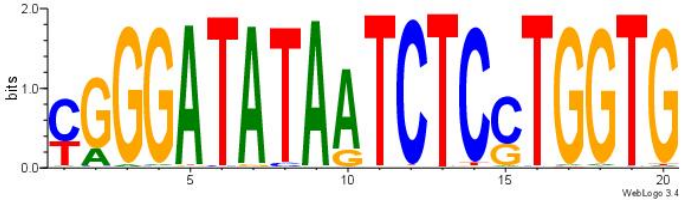

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.120437

Alignment:
GCCGTTTKTTAAGCCCGTY
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

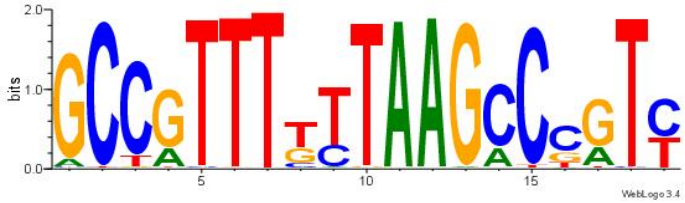

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

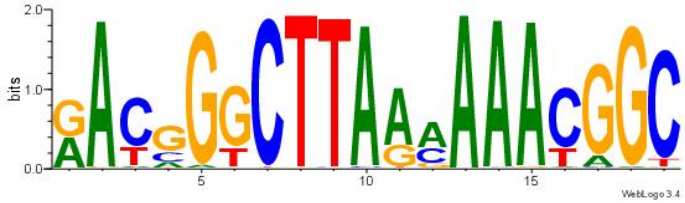

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.120977

Alignment:

```
ACACATCACAAAGCAGTTTC
MCCYGGCWSMGASGSTCCT-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

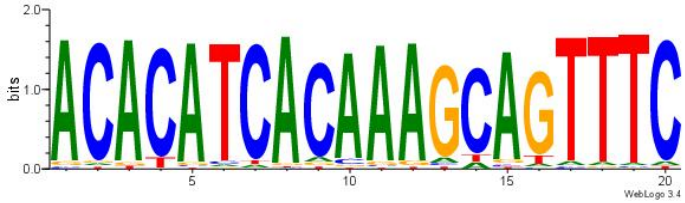

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

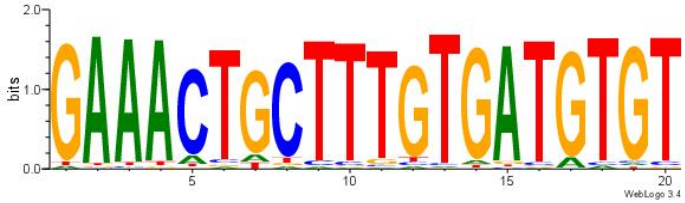

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.121077

Alignment:

```
AGTGAGAACATRYRRTRTTT
MCCYGGCWSMGASGSTCCT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

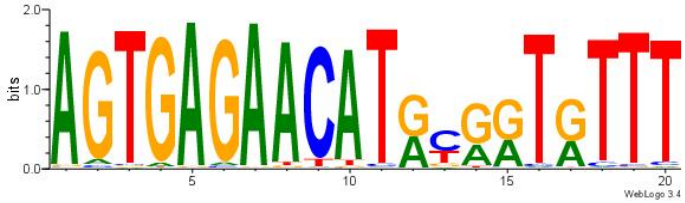

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

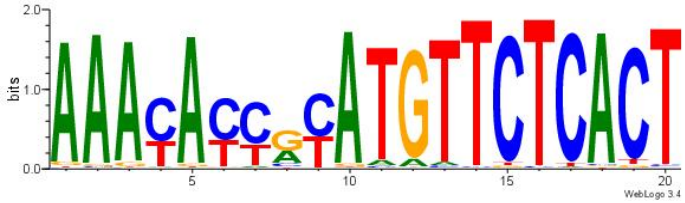

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.121828

Alignment:
CTGAGGACCTGAGGTCRTA
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

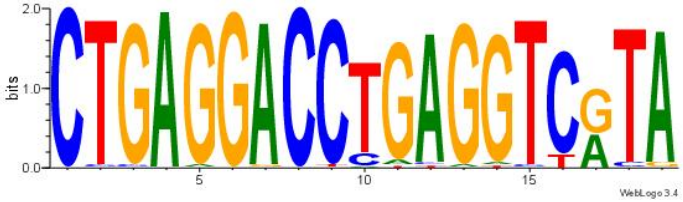

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

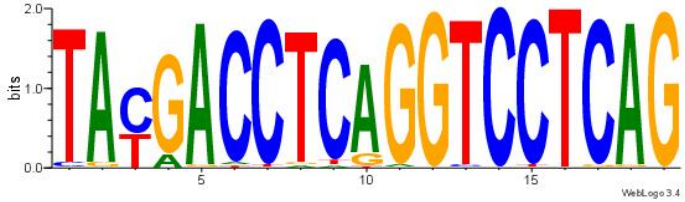

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.122125

Alignment:
GCTGCARTCTCGGCACTTT
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

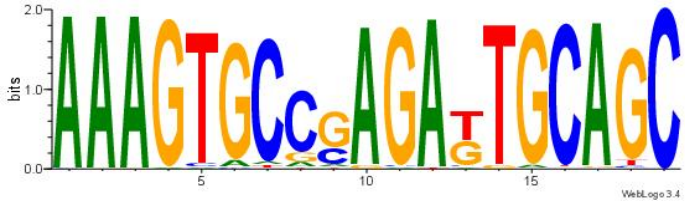

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

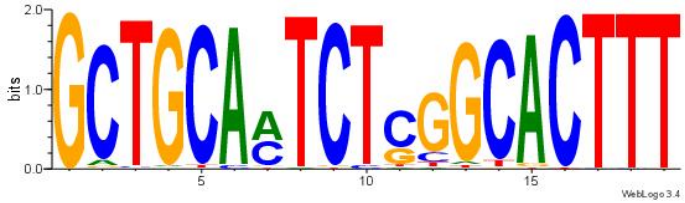

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.122348

Alignment:

```
AATGAKATCATGTCYTTTGC
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

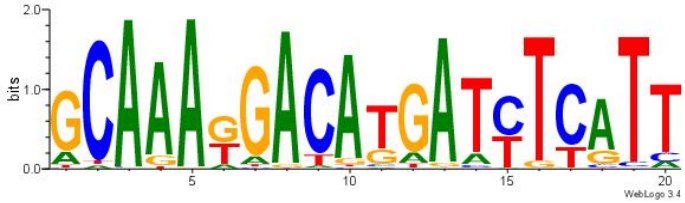

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

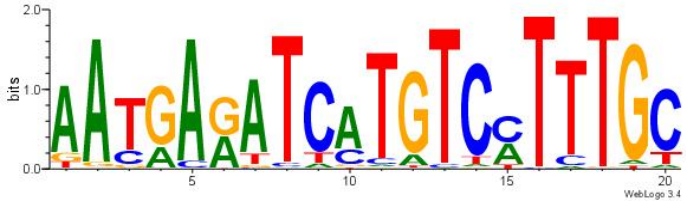

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.123283

Alignment:
AAGACCTTCCAGTGGGACAA
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

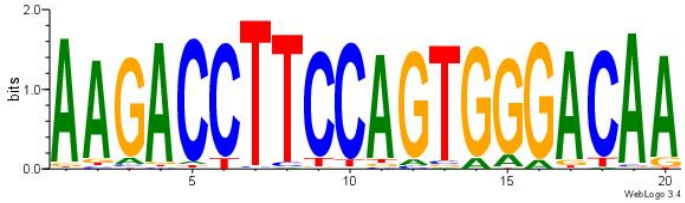

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

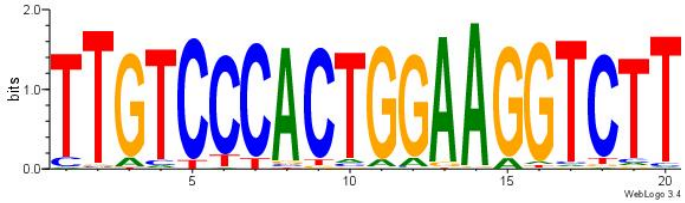

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.123595

Alignment:
GGGGGCTGACCCCCCCACC
AGGASCSTCYSWGCCMGGY

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

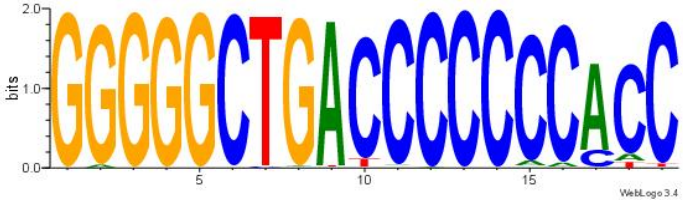

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

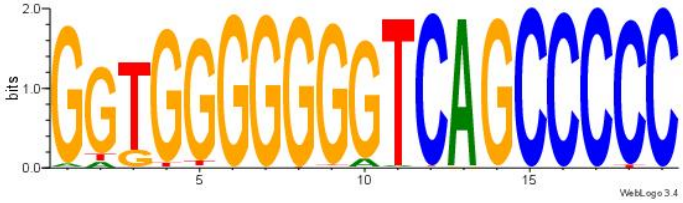

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.123812

Alignment:
GCGCTCKTCGGGGAGGCTCG
-MCCYGGCWSMGASGSTCCT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

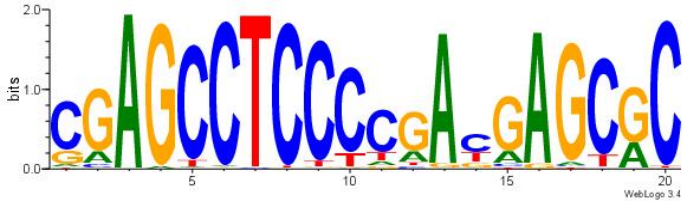

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

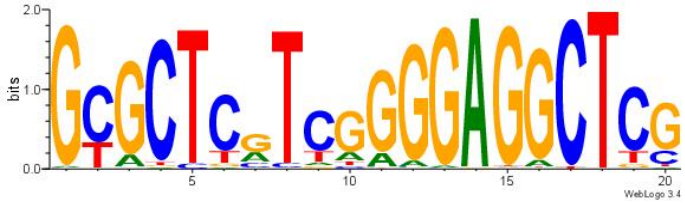

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.123863

Alignment:

```
CCCYAATACTGCGCTTTTC
MCCYGGCWSMGASGSTCCT
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

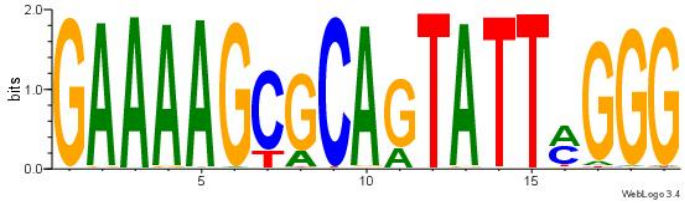

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

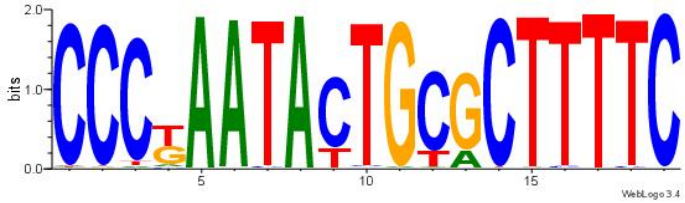

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.124461

Alignment:

```
CCACCACAGCTCAAGGAGGC
-AGGASCSTCYSWGCCMGGY
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

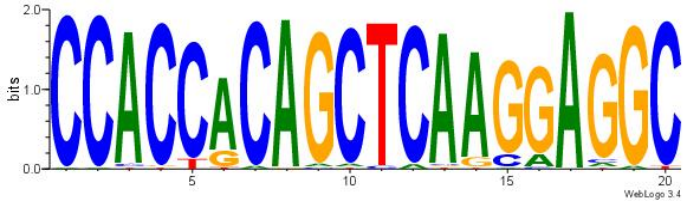

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

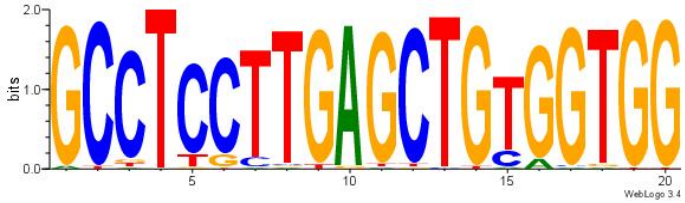

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.12488

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGGASCSTCYSWGCCMGGY-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

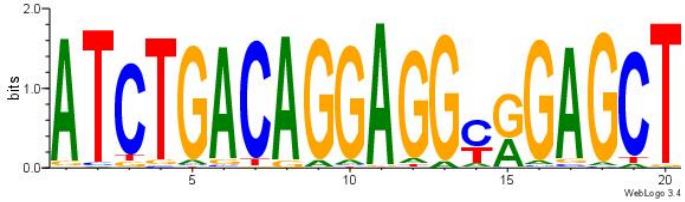

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

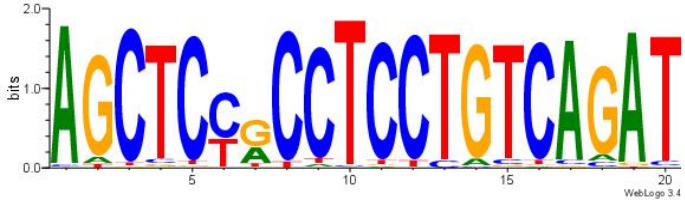

Dataset #: 1 Motif ID: 11 Motif name: Motif 11

Original motif Consensus sequence: CTCAAGGTCCA

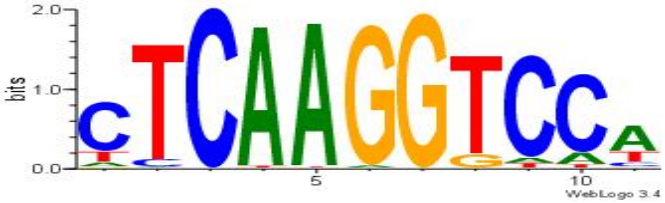

Reverse complement motif Consensus sequence: TGGACCTTGAG

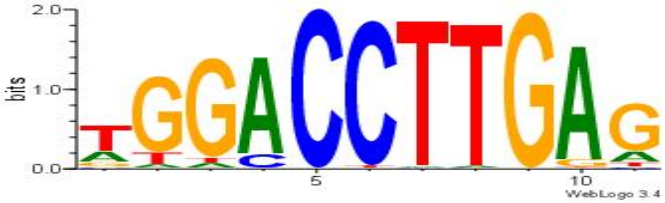

Best Matches for Motif ID 11 (Highest to Lowest)

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0546726

Alignment:

```
TGCTGGAGGTCCACTCCAGA
--CTCAAGGTCCA-------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

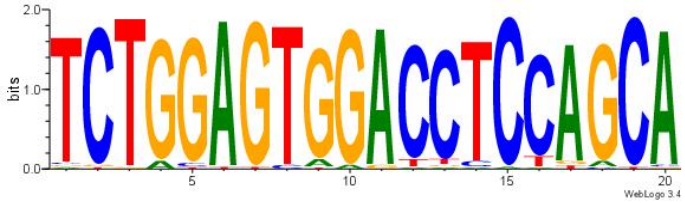

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

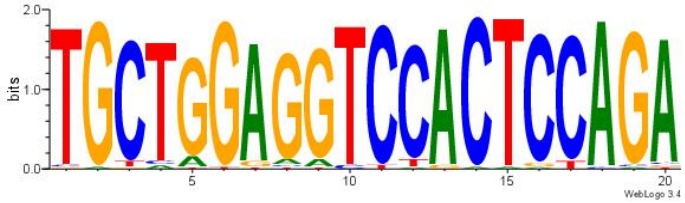

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.054717

Alignment:

CTCCAGKTMCATCCATGTTG
CTCAAGGTCCA---------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

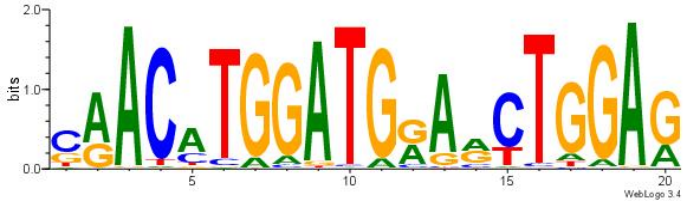

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

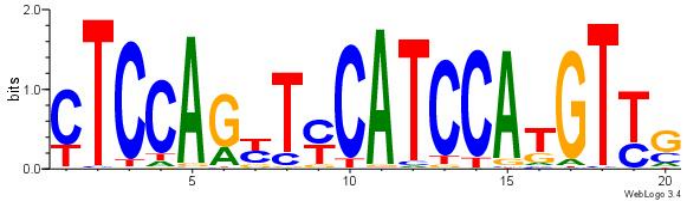

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0579649

Alignment:
AGGTCCTTCAGGAGGTATTC
TGGACCTTGAG---------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

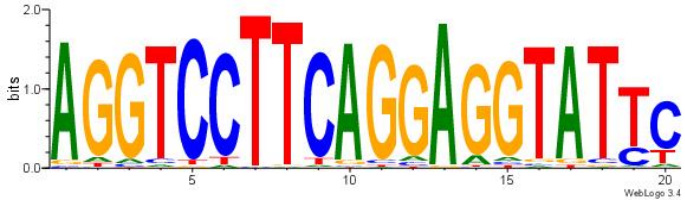

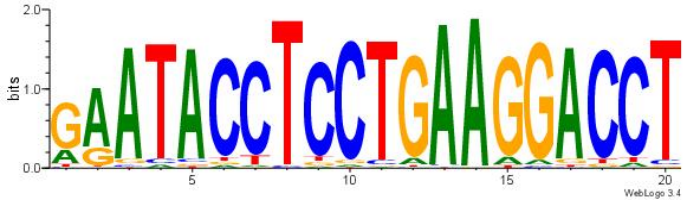

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0624438

Alignment:

```
KKCACCTTGATCTTGGACTT
TGGACCTTGAG---------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

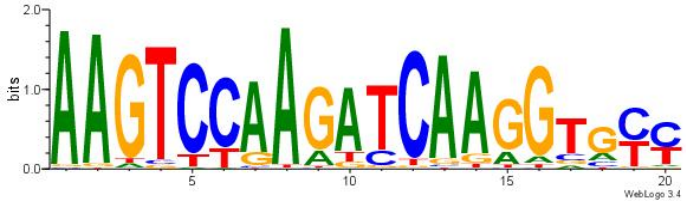

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

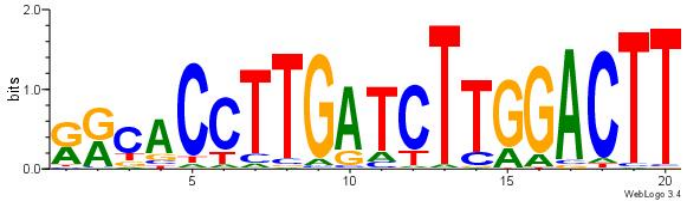

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0683174

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
--TGGACCTTGAG-------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

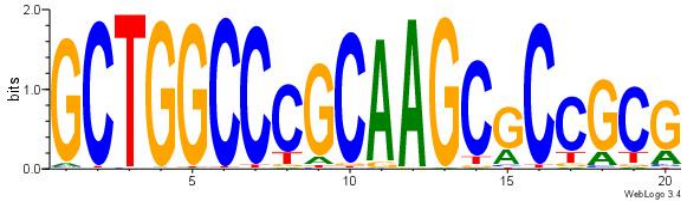

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

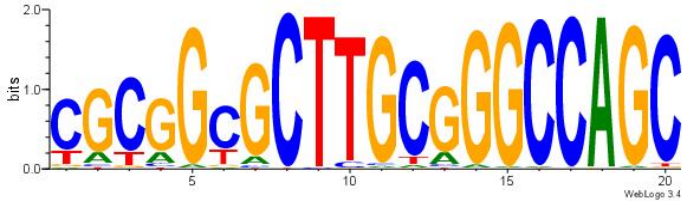

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0733492

Alignment:
ATGGACTTGAGA
TGGACCTTGAG-

Original motif Consensus sequence: ATGGACTTGAGA

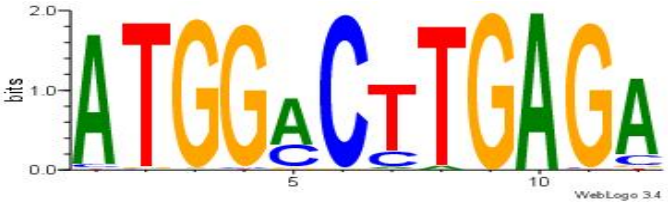

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

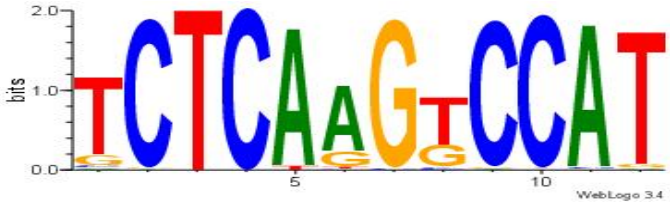

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0746139

Alignment:
ATGGACAYTTRGGTTGHTTC
-TGGACCTTGAG--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

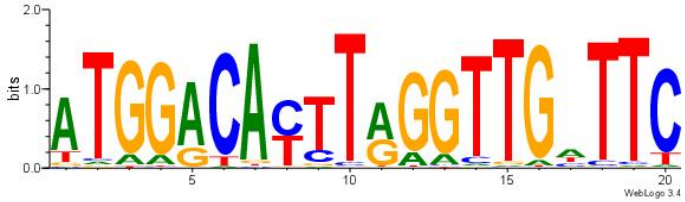

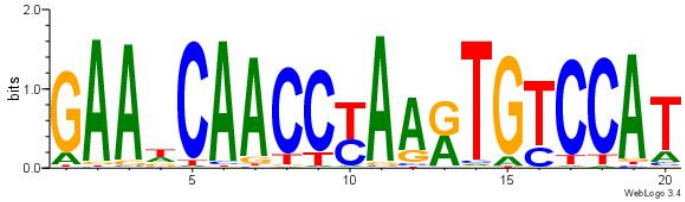

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0775062

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-------CTCAAGGTCCA--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

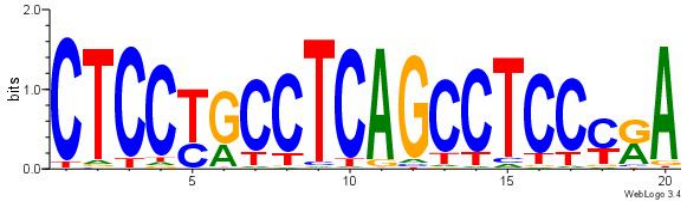

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

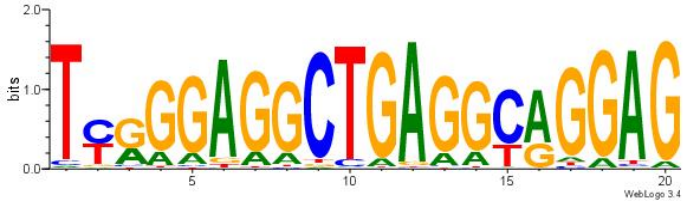

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0798513

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------TGGACCTTGAG---
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

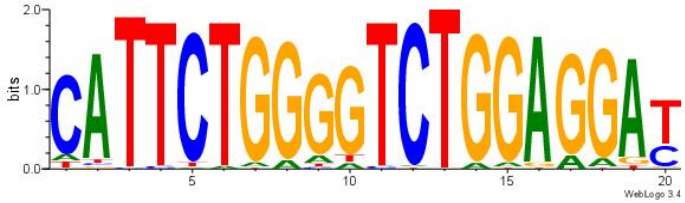

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

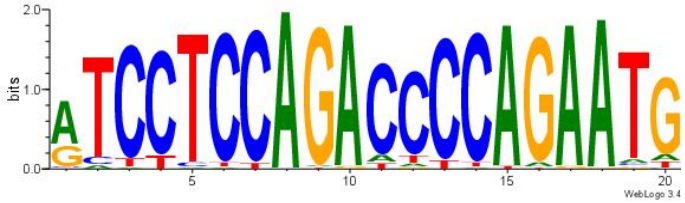

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0799082

Alignment:
CTTGCCCAAGGTCACACAGC
----CTCAAGGTCCA-----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

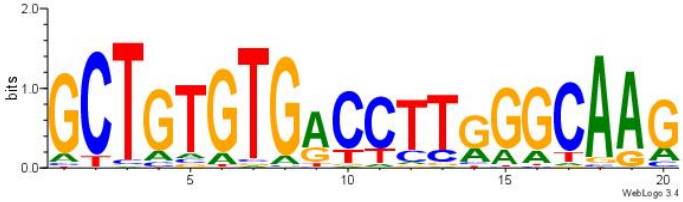

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

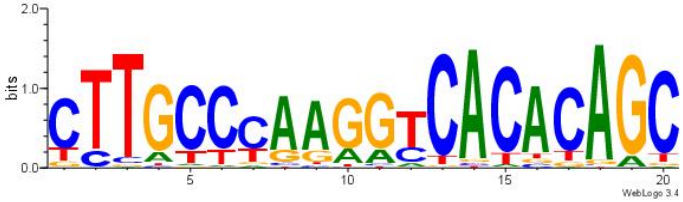

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0803131

Alignment:
GATCACGAGGTCAGGAG
---CTCAAGGTCCA---

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

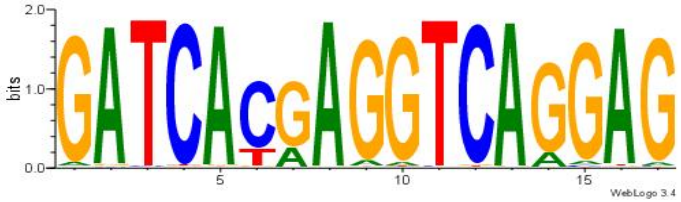

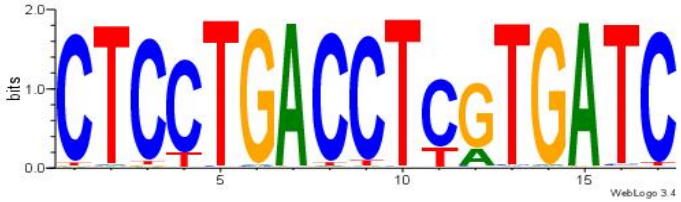

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0804772

Alignment:

```
CCCCGGGCAGTGAGGG
---TGGACCTTGAG--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

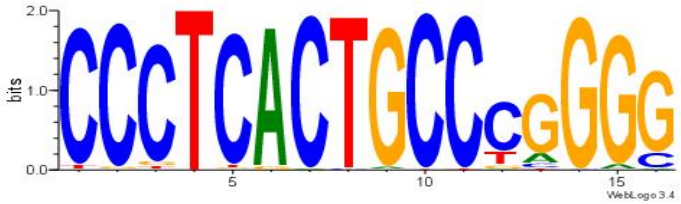

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

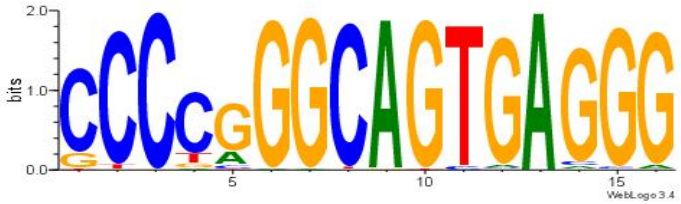

Dataset #:	1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0809342

Alignment:

```
MGGAAACTGAGGC
TGGACCTTGAG--
```

Original motif Consensus sequence: GCCTCAGTTTCCY

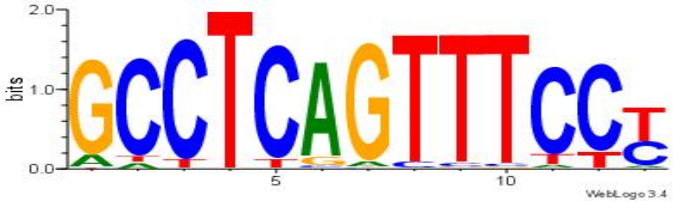

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

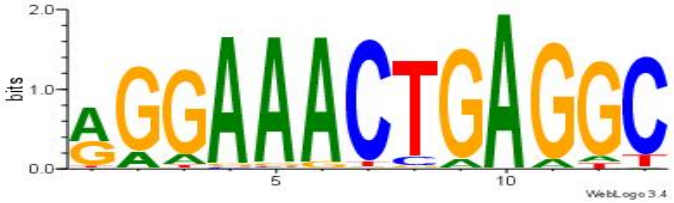

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0811923

Alignment:
AGGACTGAGGGTGCCYRGGG
----CTCAAGGTCCA-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

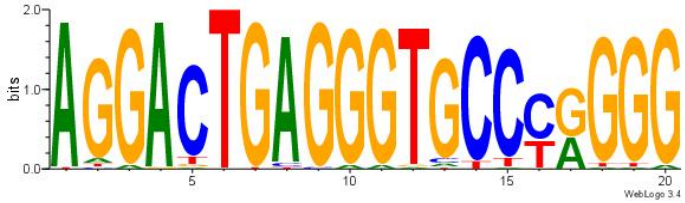

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

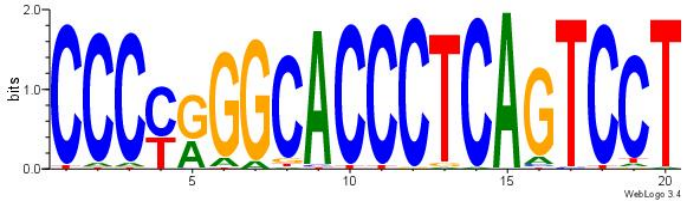

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0822744

Alignment:
GCTCTCAGGTCCA
--CTCAAGGTCCA

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

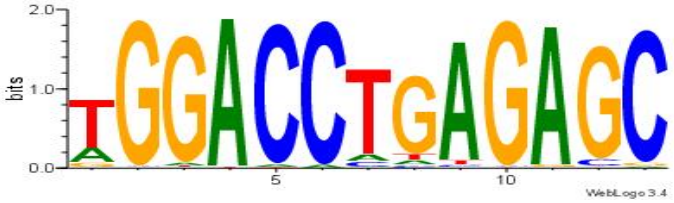

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0826674

Alignment:

```
CACCAGACTCAGGAGCCCAG
-------CTCAAGGTCCA--
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

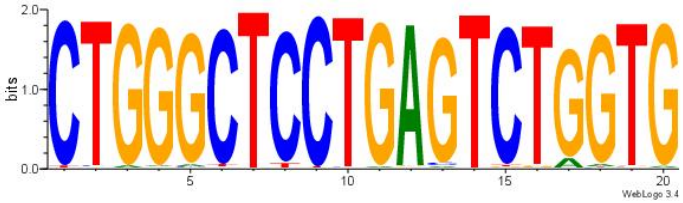

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

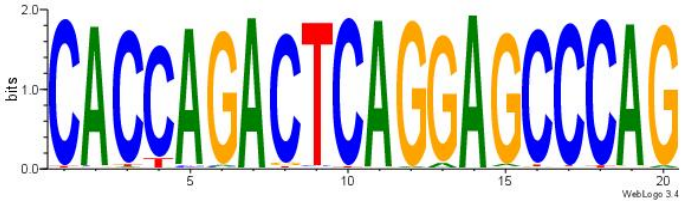

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0836941

Alignment:

```
TGGAGAACCTTTATGTCTAG
---TGGACCTTGAG------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

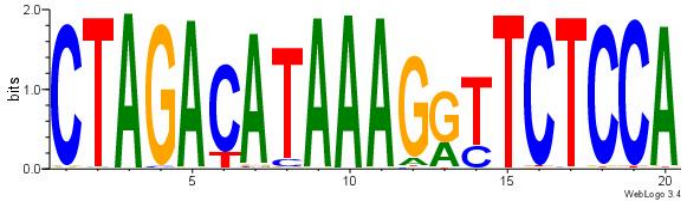

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

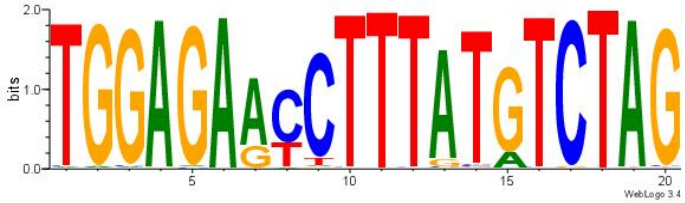

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.0838041

Alignment:
TAMGACCTCAGGTCCTCAG
-----CTCAAGGTCCA---

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

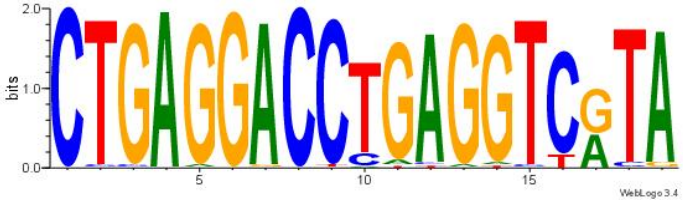

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

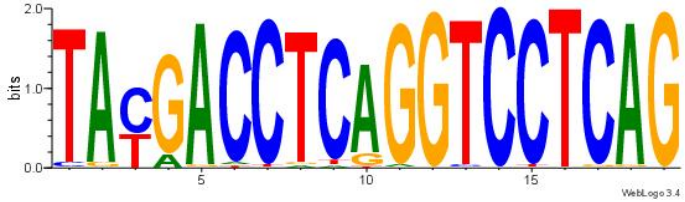

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.084625

Alignment:
AAGGGACATTKGAG
--TGGACCTTGAG-

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

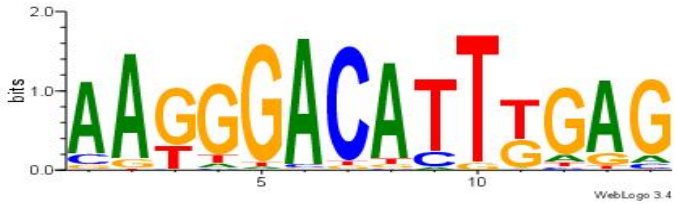

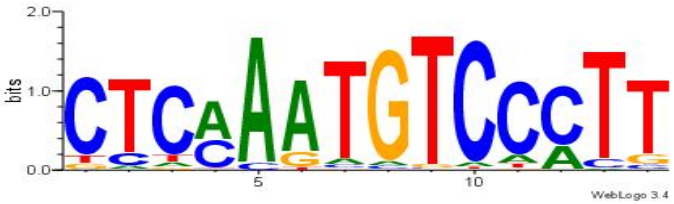

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0856076

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-----CTCAAGGTCCA----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

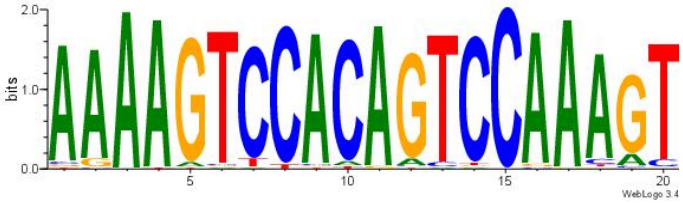

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

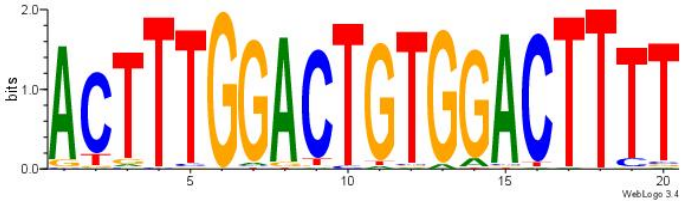

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0857835

Alignment:

```
CCACCACAGCTCAAGGAGGC
---------CTCAAGGTCCA
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

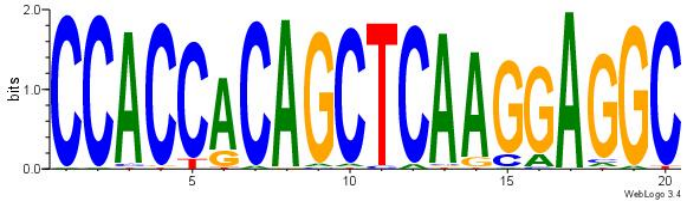

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

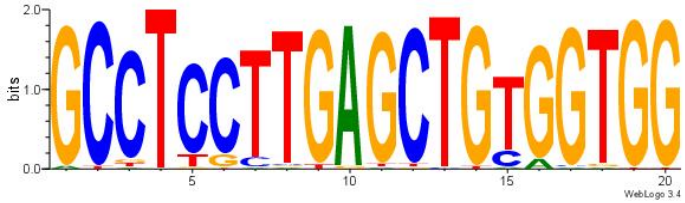

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.0867151

Alignment:
GCAWSTGCAAAGGCCCT
-----CTCAAGGTCCA-

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

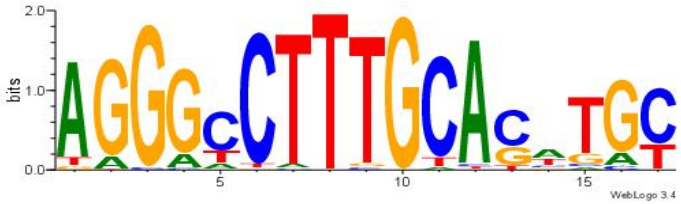

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

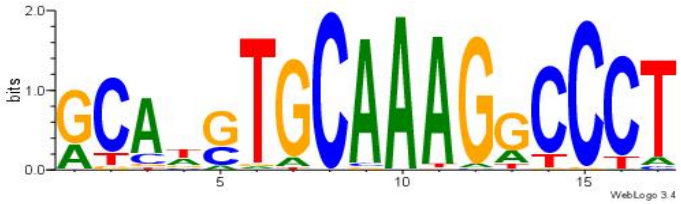

Dataset #: 1
Motif ID: 320
Motif name: Motif 320
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0874988

Alignment:
TGGGGCTCCAGATG
TGGACCTTGAG---

Original motif Consensus sequence: CATCTGGAGCCCCA

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

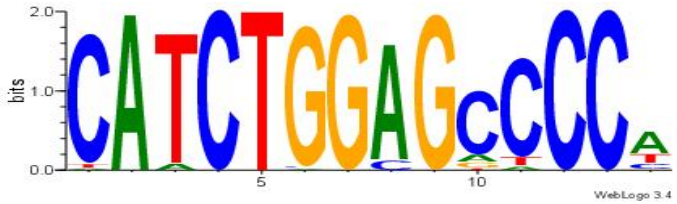

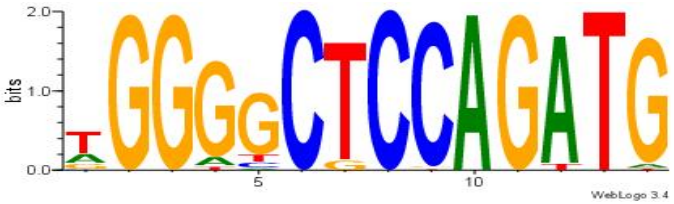

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0882979

Alignment:

```
CAAASCKGTCATAGGCCAT
-------CTCAAGGTCCA-
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

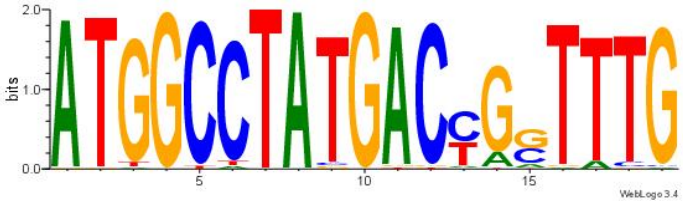

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

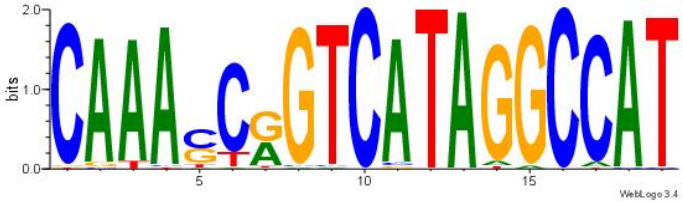

Dataset #:	1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0891572

Alignment:

```
GCTGGCCCKGGTGCTAAGC
--TGGACCTTGAG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

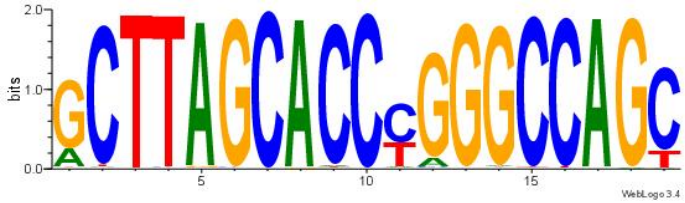

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

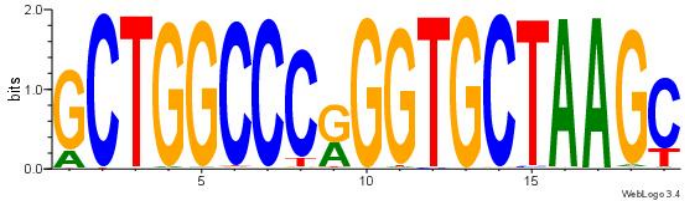

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0892798

Alignment:
GTTTAACCATTGAGGGCCAG
--------CTCAAGGTCCA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

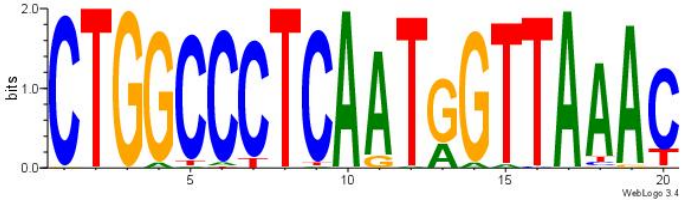

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

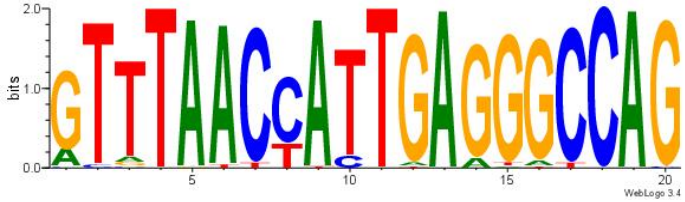

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0893693

Alignment:
AAGACCTTCCAGTGGGACAA
TGGACCTTGAG---------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

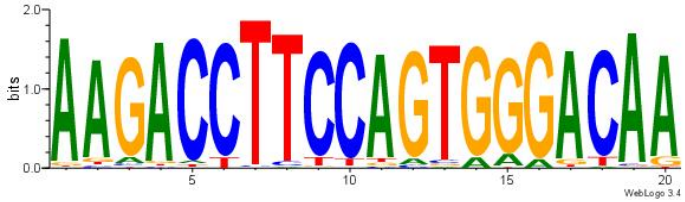

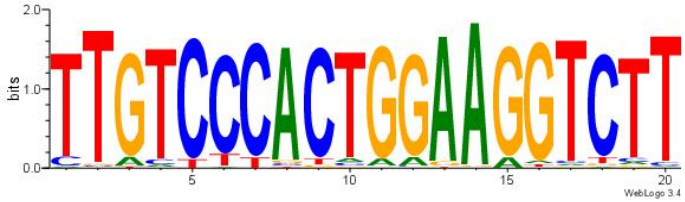

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.089597

Alignment:

```
CTCAGTGTTAATCTCCTGTC
CTCAAGGTCCA---------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

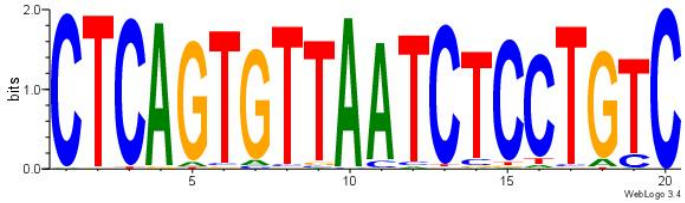

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

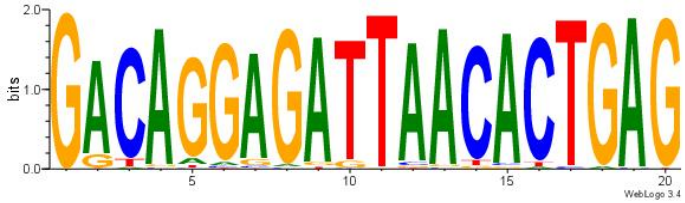

Dataset #:	1

Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0901016

Alignment:

```
CTACATGGACCTT
-CTCAAGGTCCA-
```

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

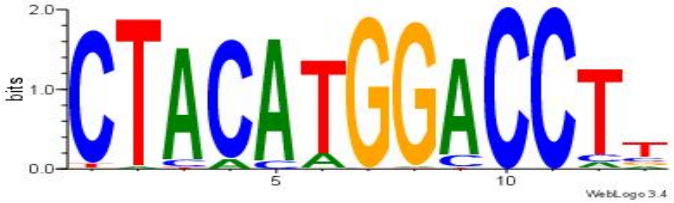

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0902235

Alignment:
CCGCGCCGTGCGC
-TGGACCTTGAG-

Original motif Consensus sequence: GCGCACGGCGCGG

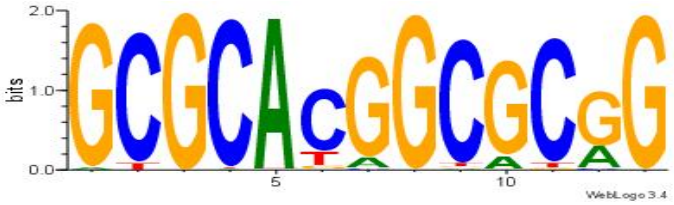

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

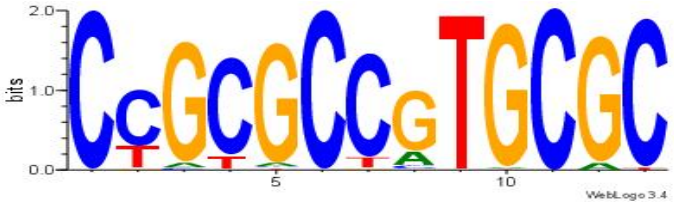

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0913801

Alignment:
ATGTGGAGGTGGAAGACAGT
---TGGACCTTGAG------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

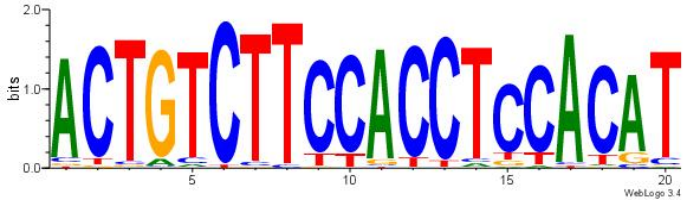

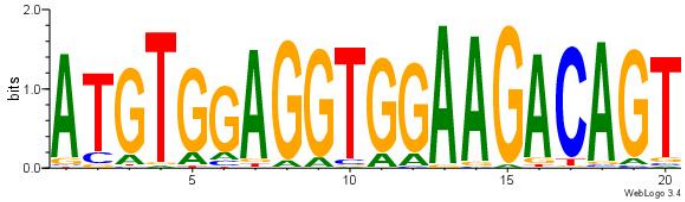

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0914262

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-----TGGACCTTGAG----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

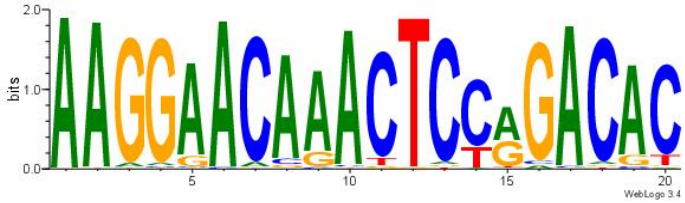

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

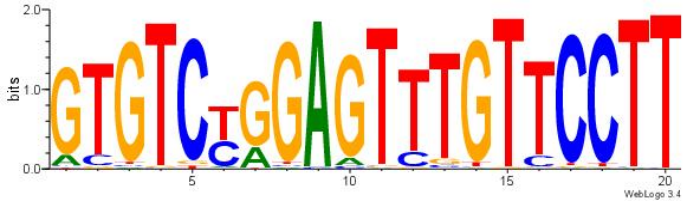

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0915067

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-CTCAAGGTCCA--------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

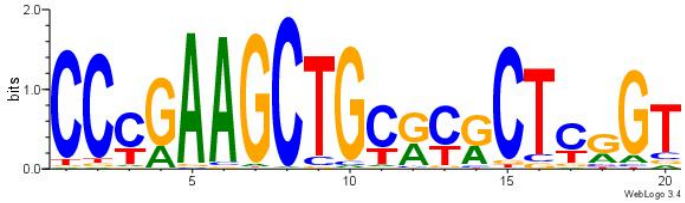

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

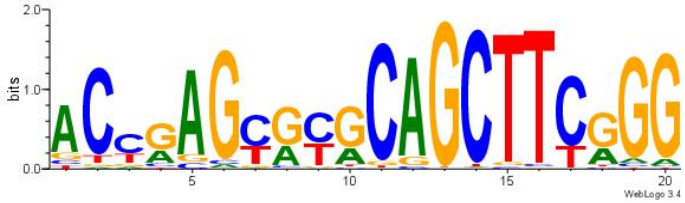

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0920881

Alignment:
MGAAGGGACTTGCCTTGT
---TGGACCTTGAG----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

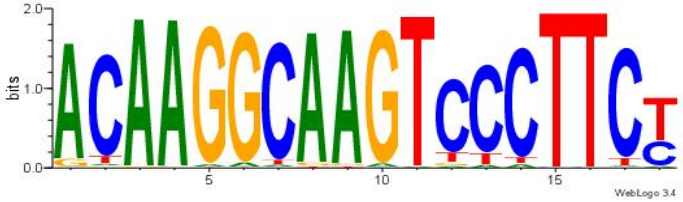

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

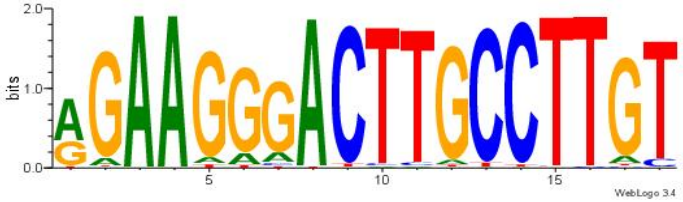

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0927155

Alignment:
TYTGTCMTTTTGTGACTGGC
-TGGACCTTGAG--------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

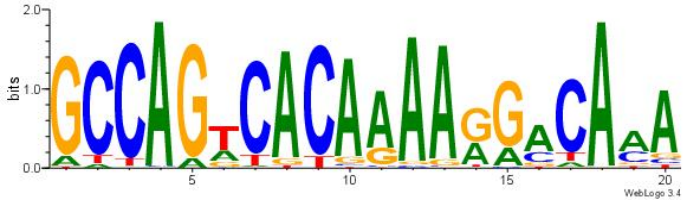

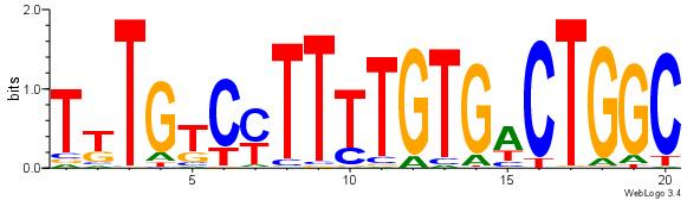

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0939705

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CTCAAGGTCCA-------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

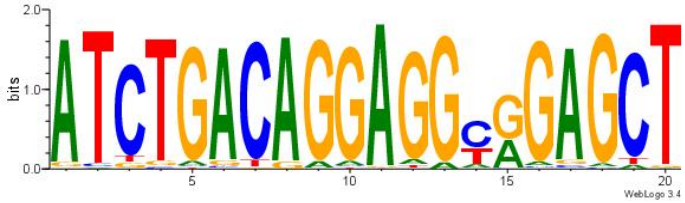

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

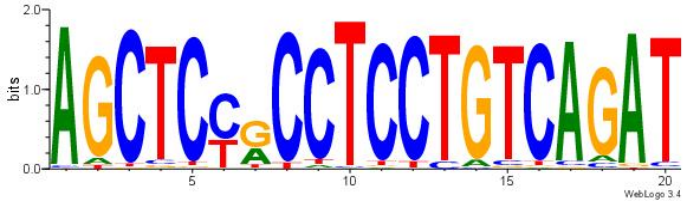

Dataset #:	1

Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0942986

Alignment:

```
GKGGCAGTGAGGC
TGGACCTTGAG--
```

Original motif Consensus sequence: GCCTCACTGCCRC

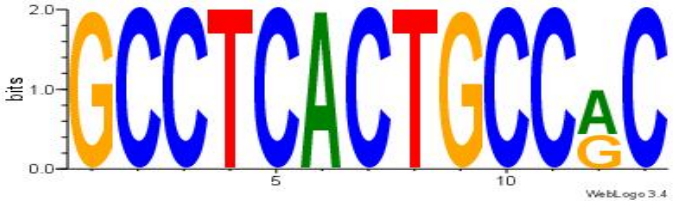

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

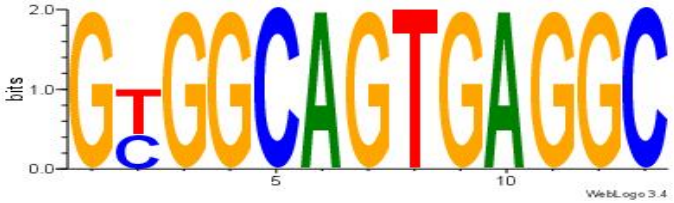

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0945943

Alignment:
KCCGGGCCTTAGCTGCCTTC
--TGGACCTTGAG-------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

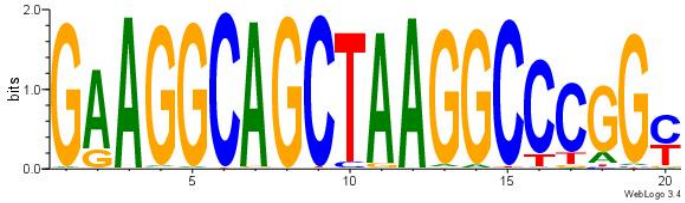

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

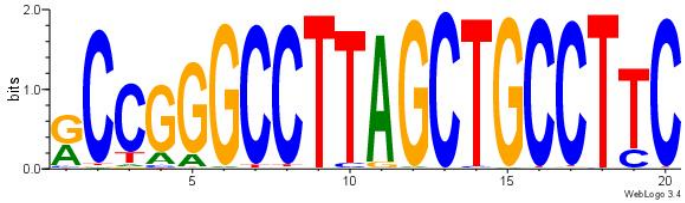

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0952324

Alignment:
KGCAACCTAGATCCCT
----CTCAAGGTCCA-

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence:
KGCAACCTAGATCCCT

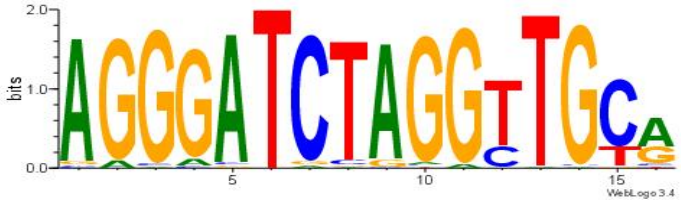

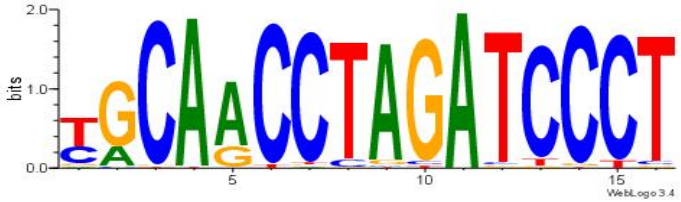

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0953016

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
--CTCAAGGTCCA-------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

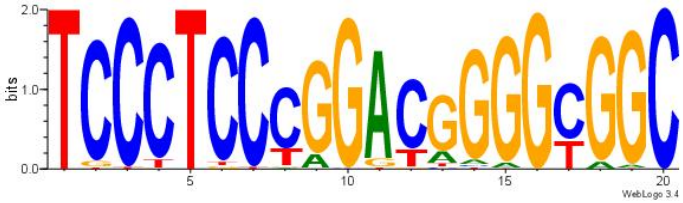

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

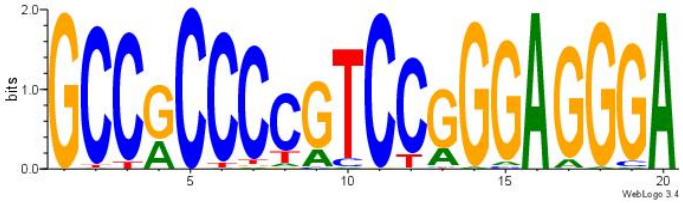

Dataset #:	1

Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0953926

Alignment:

```
TTCCTAACAGGCCA
---CTCAAGGTCCA
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

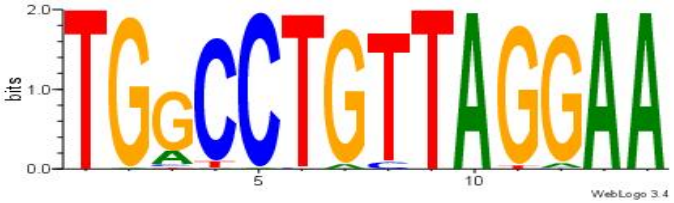

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

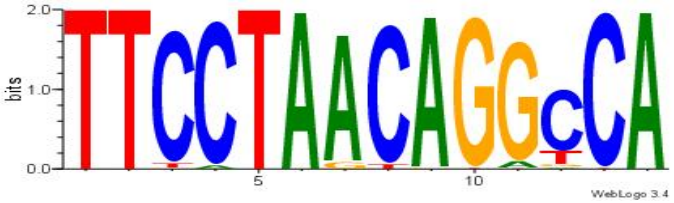

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0955572

Alignment:
GTCCCATCGACCACCCAAG
--CTCAAGGTCCA------

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

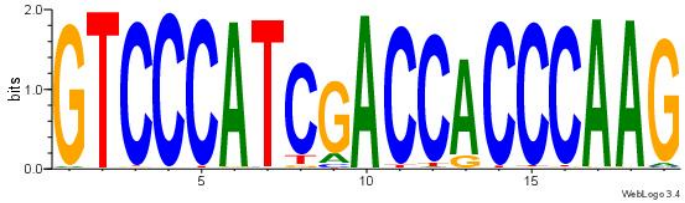

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

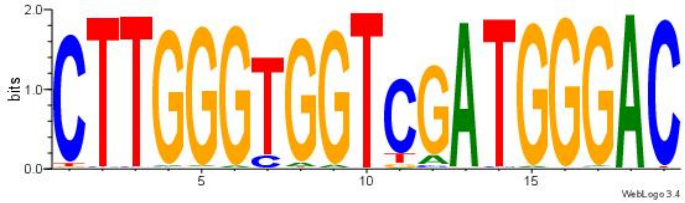

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0957029

Alignment:
ACAGTTCTGGAGGCT
-TGGACCTTGAG---

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0960129

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----CTCAAGGTCCA----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

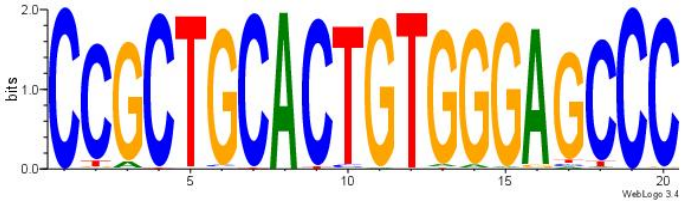

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

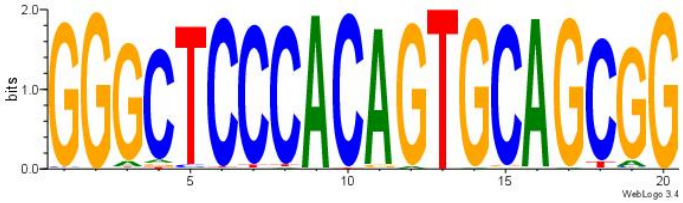

Dataset #:	1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0964123

Alignment:

```
AGGASCSTCYSWGCCMGGY
--------TGGACCTTGAG
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

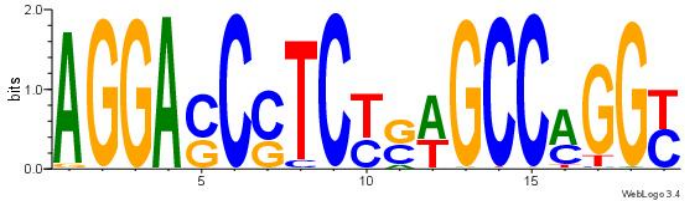

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

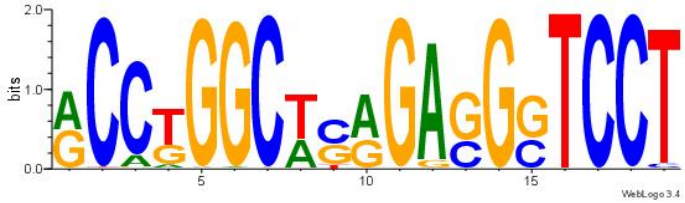

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0968074

Alignment:
CAAGCGCCAGCTCATGTC
----CTCAAGGTCCA---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

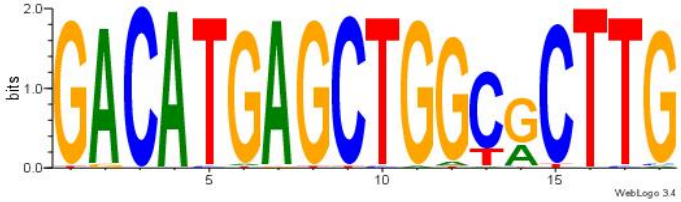

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

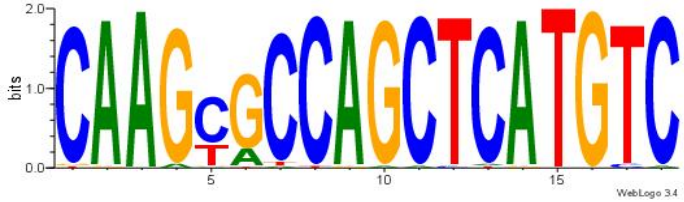

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0972985

Alignment:
GGTCAGGATCATCAATAT
-CTCAAGGTCCA------

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

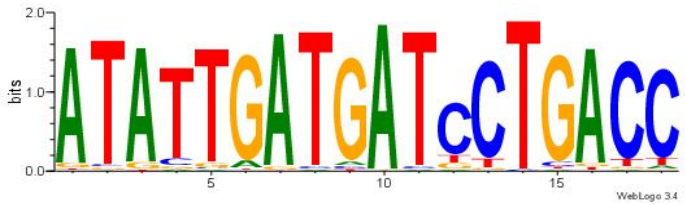

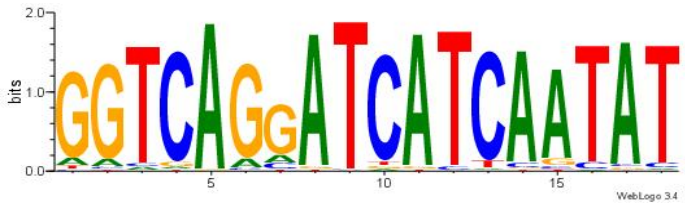

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.097524

Alignment:

```
GGAGGATCACKTGAG
----TGGACCTTGAG
```

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

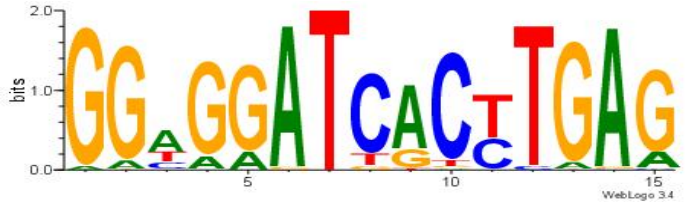

Dataset #:	1
Motif ID:	105

Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0977616

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-------TGGACCTTGAG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

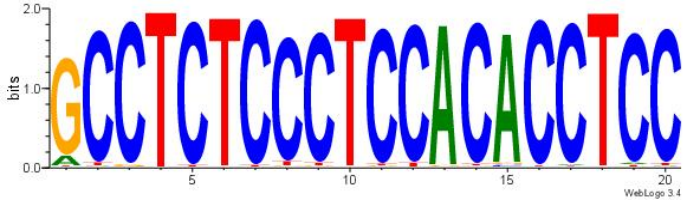

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

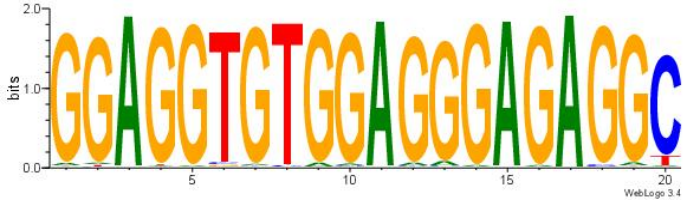

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0988037

Alignment:
TTGGAGGTTCTAGCAGGG
CTCAAGGTCCA-------

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

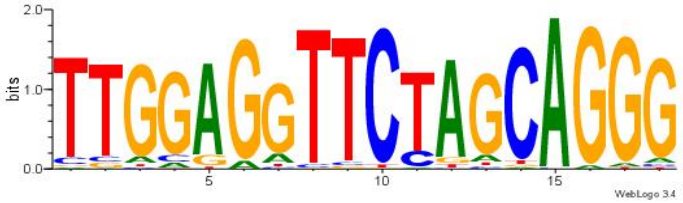

Dataset #: 1 Motif ID: 12 Motif name: Motif 12

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

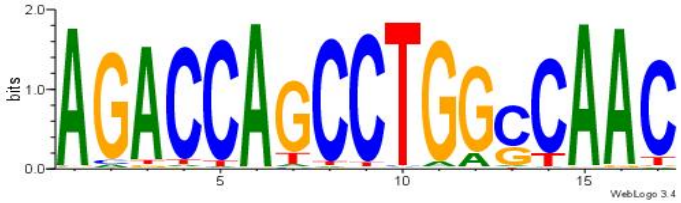

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

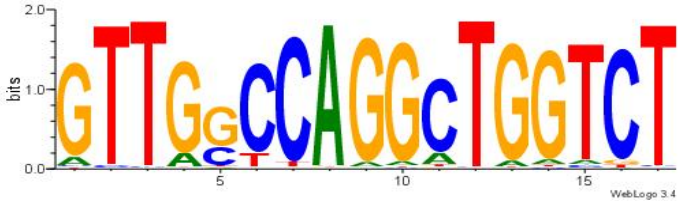

Best Matches for Motif ID 12 (Highest to Lowest)

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0789836

Alignment:

```
ATTGATMKCCAGGGTTGATT
---GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

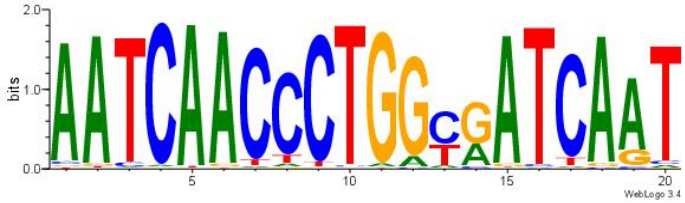

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

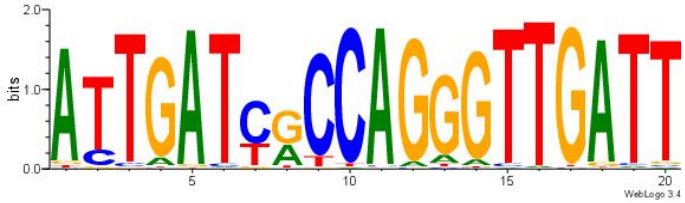

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0836974

Alignment:

```
AAGACCTTCCAGTGGGACAA
-AGACCAGCCTGGCCAAC--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

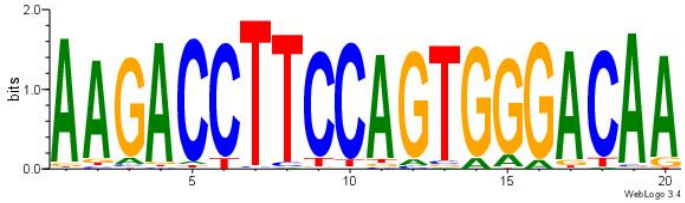

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

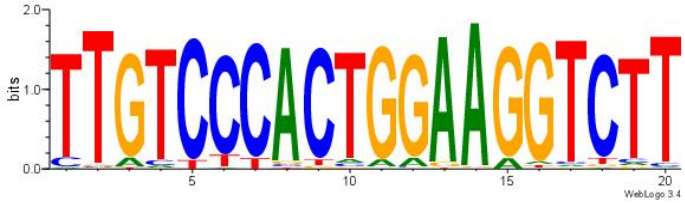

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0879397

Alignment:

```
AGCTCCCAGCGTGAGCGACG
--AGACCAGCCTGGCCAAC-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

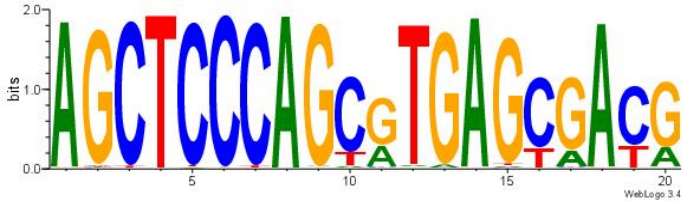

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

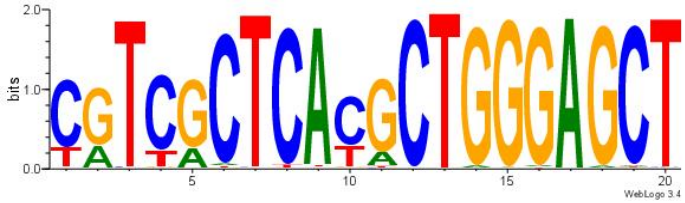

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0890409

Alignment:

```
GCTGGCCCKGGTGCTAAGC
GTTGGCCAGGCTGGTCT--
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

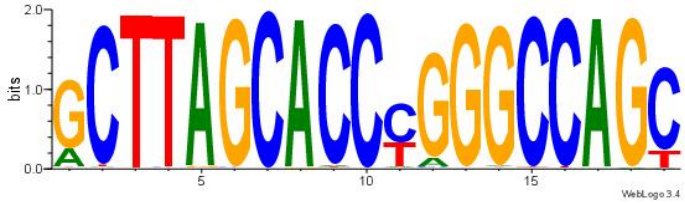

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

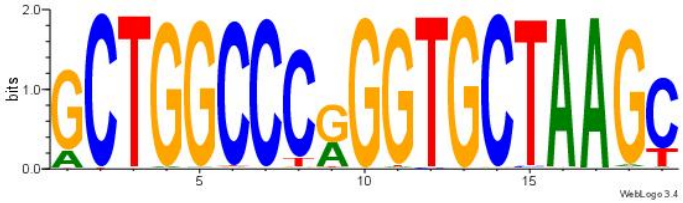

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.0937553

Alignment:
CACTTTCCAGACTGGGCA
-GTTGGCCAGGCTGGTCT

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

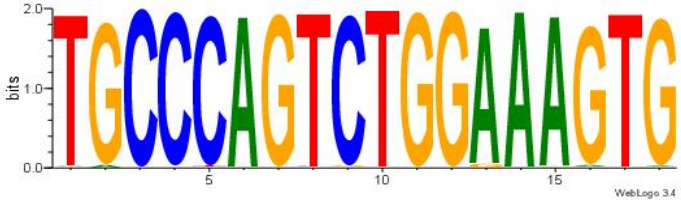

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

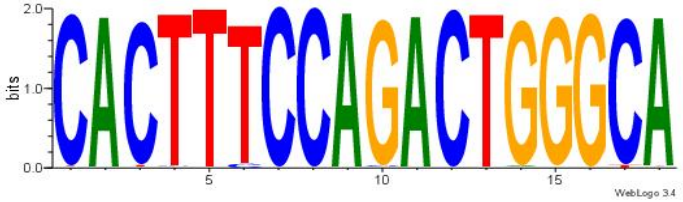

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.0946687

Alignment:
TACCTGAGACTGGGTAATTT
-AGACCAGCCTGGCCAAC--

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

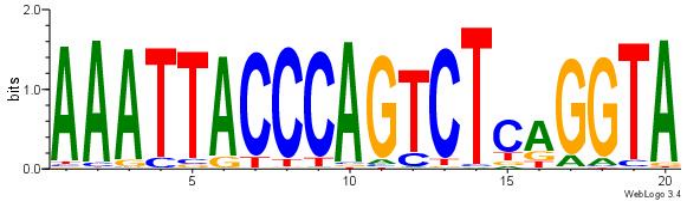

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

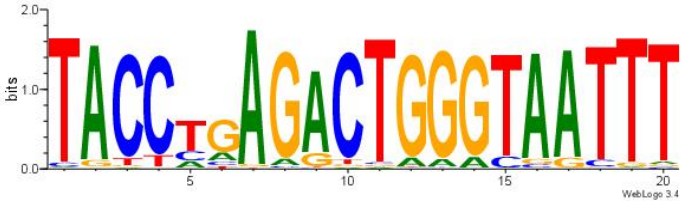

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0956161

Alignment:

```
TTTTCACATGCCTTTCT
GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

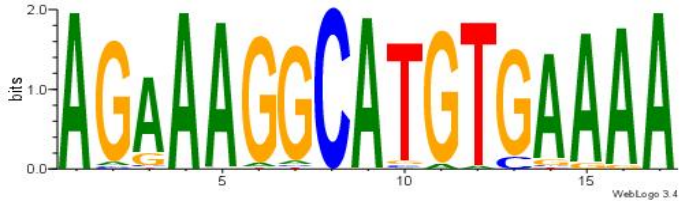

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

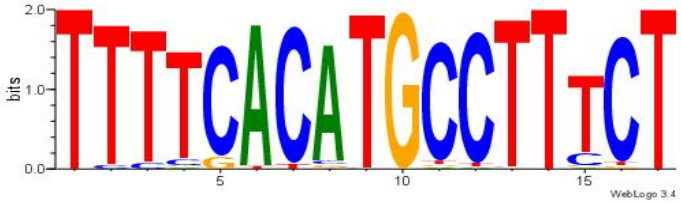

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0977086

Alignment:

```
AGATGCCAGCCAGAGCTCT
--AGACCAGCCTGGCCAAC
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

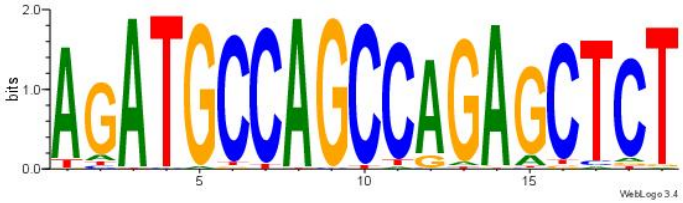

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

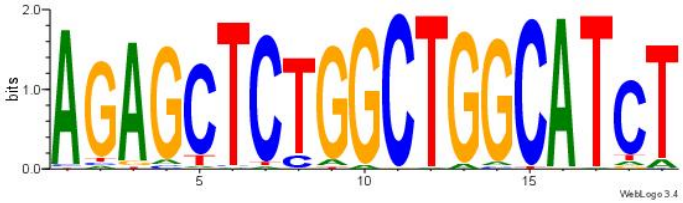

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.0982964

Alignment:
GACTGGCAGGCAGCTCCACC
GTTGGCCAGGCTGGTCT---

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

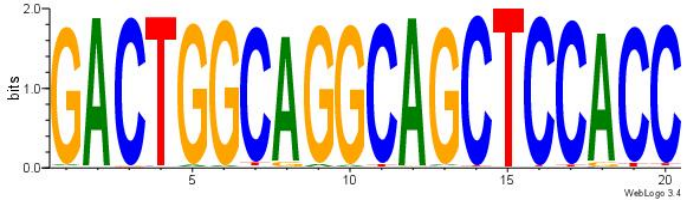

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

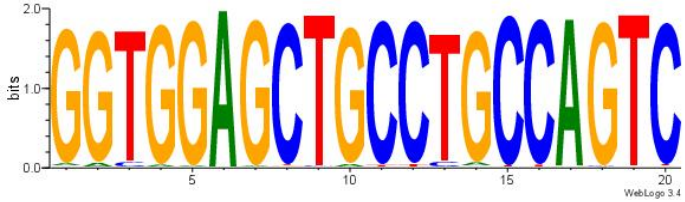

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.099848

Alignment:
CTTTCTGGGCTGGCCAAGG
-AGACCAGCCTGGCCAAC-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

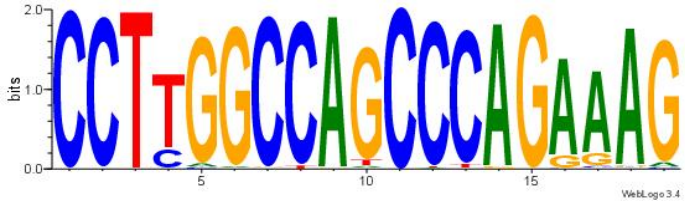

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

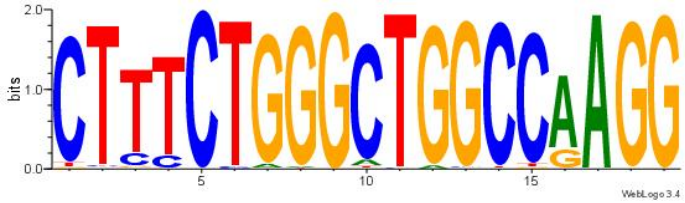

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.103639

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
---AGACCAGCCTGGCCAAC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

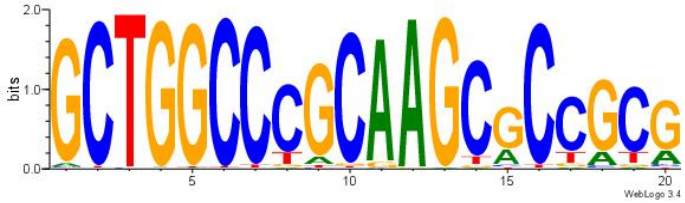

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

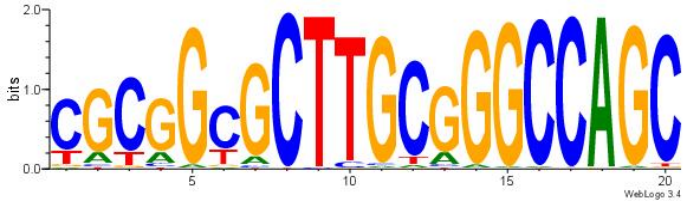

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.108289

Alignment:

```
ACCTGGAAAATCGGGTCACT
-GTTGGCCAGGCTGGTCT--
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

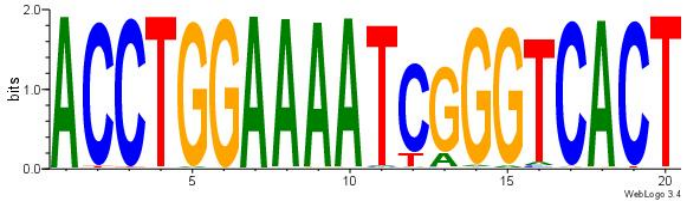

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

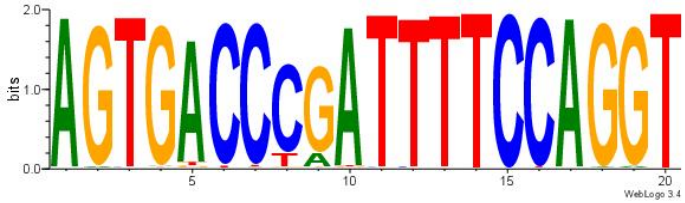

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.108869

Alignment:
AGGTTTGTTACATAGGTAWA
--GTTGGCCAGGCTGGTCT-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

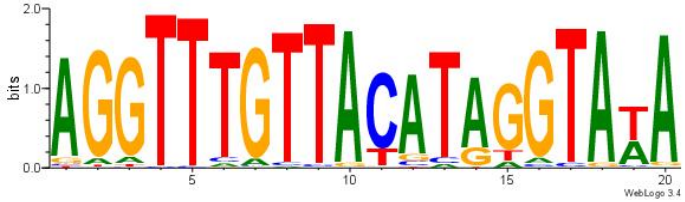

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

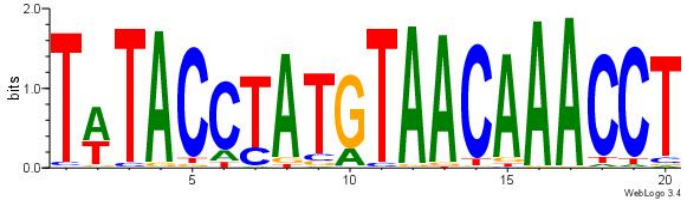

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.108873

Alignment:
TYTGTCMTTTTGTGACTGGC
GTTGGCCAGGCTGGTCT---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

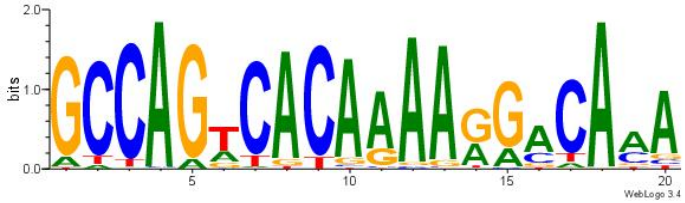

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

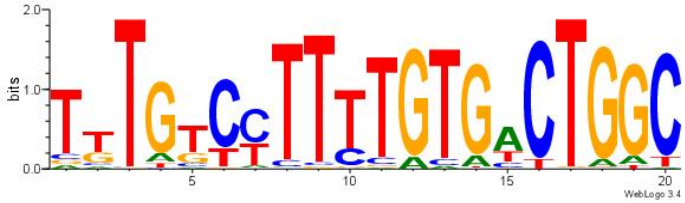

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.109148

Alignment:

```
ATTAGCYRGGCRTGGTGGC
--GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

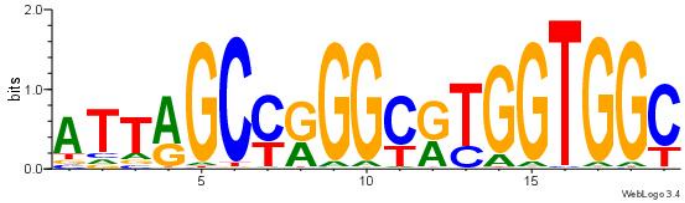

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

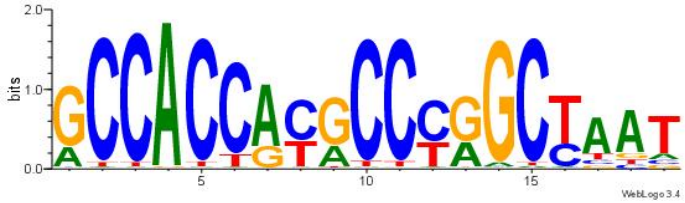

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.111431

Alignment:

```
CACTTCCCAGACGGGGCG
-GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

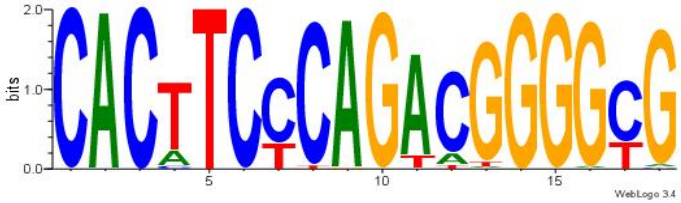

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

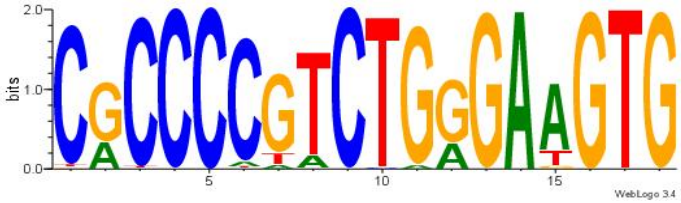

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.111937

Alignment:
CTGTTTGCCTGGGTATCA
AGACCAGCCTGGCCAAC-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

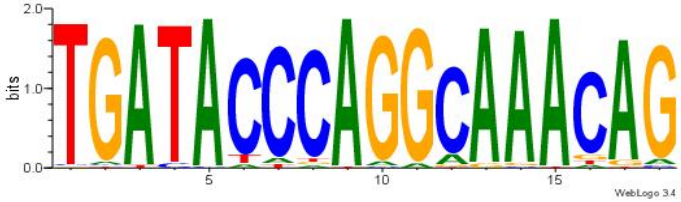

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

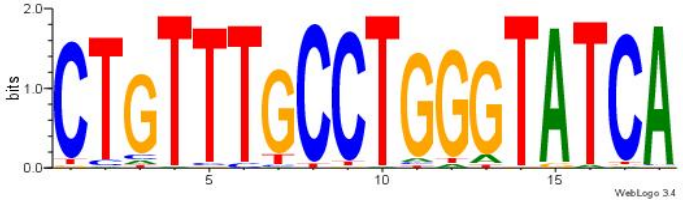

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.112822

Alignment:
ACAAGGCAAGTCCCTTCY
-GTTGGCCAGGCTGGTCT

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

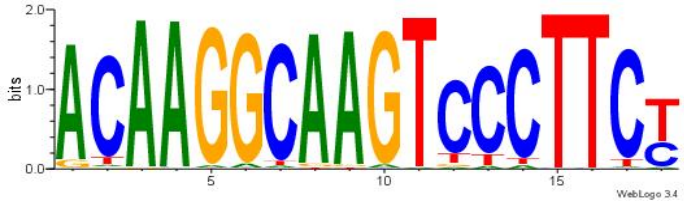

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

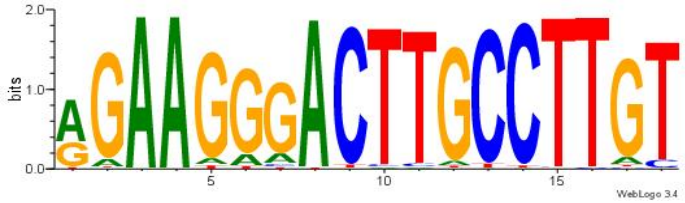

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.113767

Alignment:

```
TGGCTTCACCCAGTGGATCC
---GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

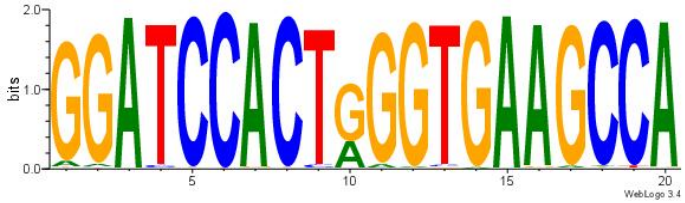

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

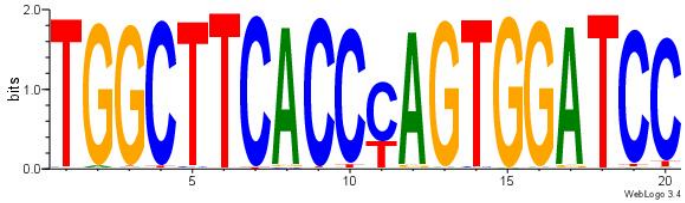

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.114189

Alignment:

```
AGTTCCGGGTGGGCGTGGG
AGACCAGCCTGGCCAAC--
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

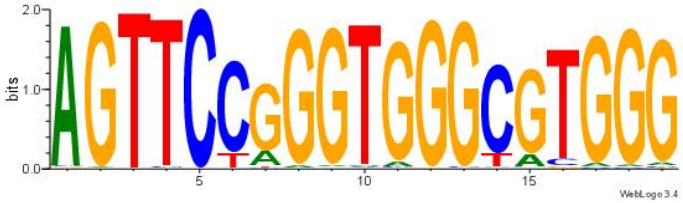

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

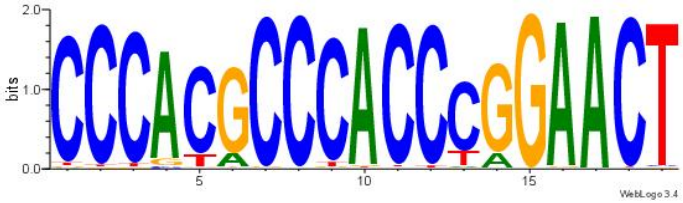

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.114419

Alignment:
GGGTGCAGGMGGGCTGAGT
-AGACCAGCCTGGCCAAC-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

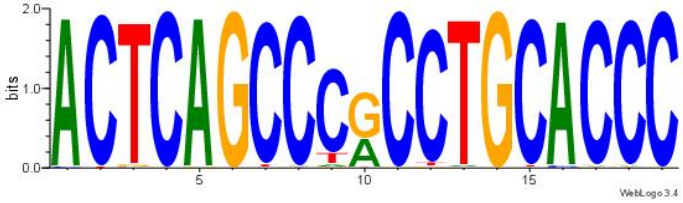

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

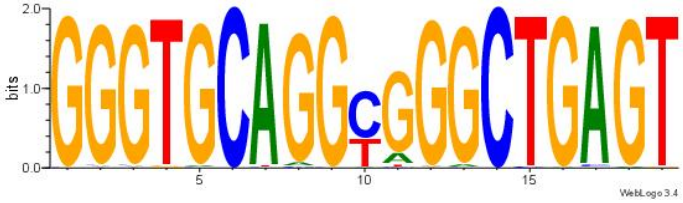

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.114964

Alignment:
GAATACCTCCTGAAGGACCT
-AGACCAGCCTGGCCAAC--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

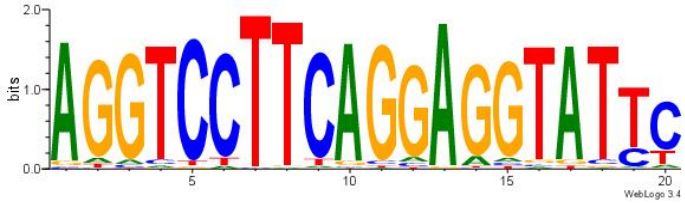

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

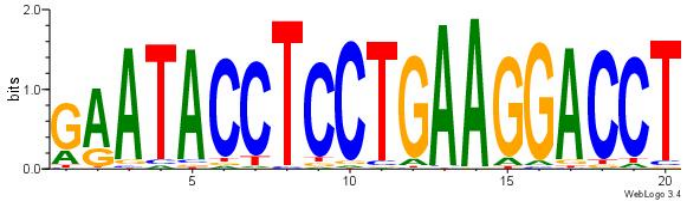

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.115321

Alignment:

```
AAGCTCGAACTGGGTGGAGC
---GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

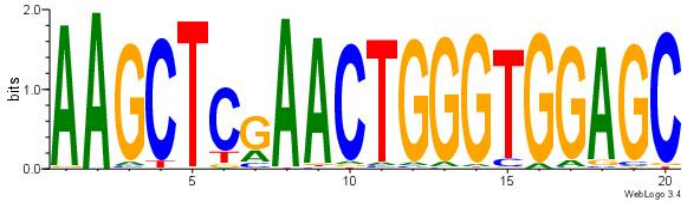

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

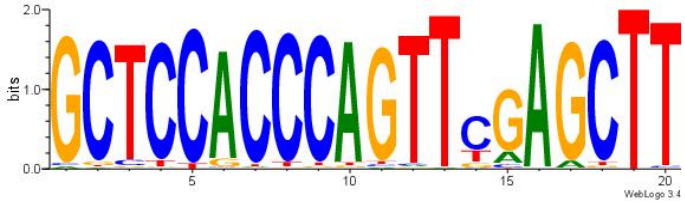

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.11542

Alignment:

```
AGGASCSTCYSWGCCMGGY
-AGACCAGCCTGGCCAAC-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

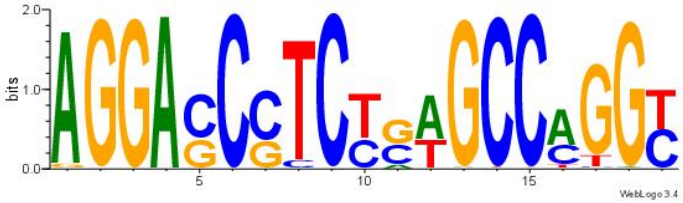

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

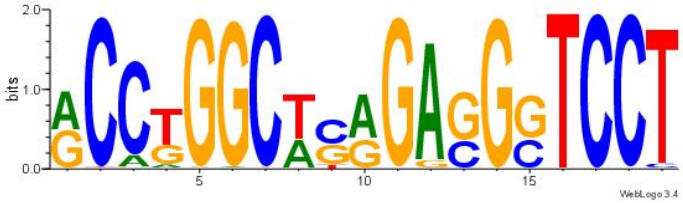

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.116252

Alignment:
GCTGCARTCTCGGCACTTT
AGACCAGCCTGGCCAAC--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

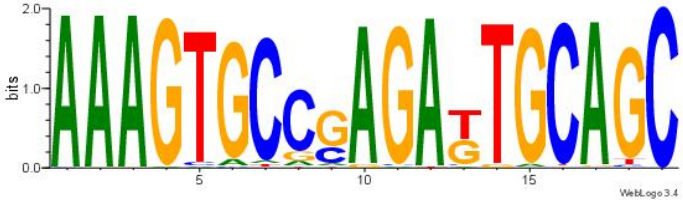

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

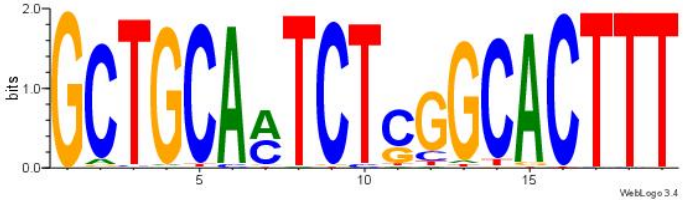

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.11667

Alignment:
CTGGGTCCCCCAGCAGTGCC
---GTTGGCCAGGCTGGTCT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

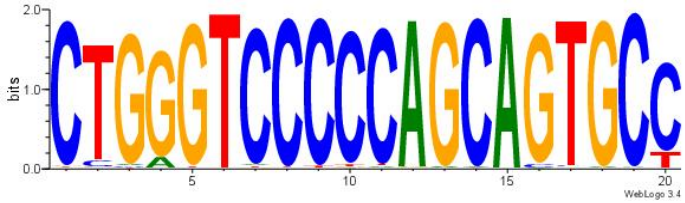

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

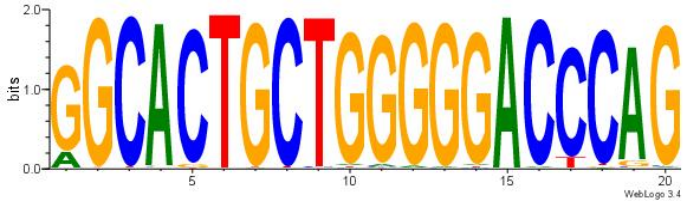

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.116753

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
AGACCAGCCTGGCCAAC---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

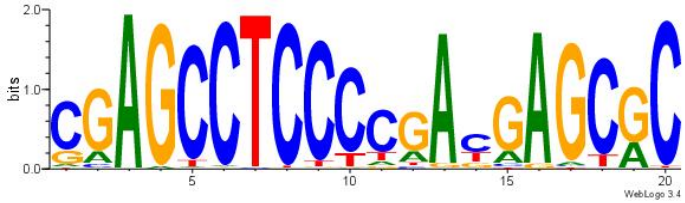

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

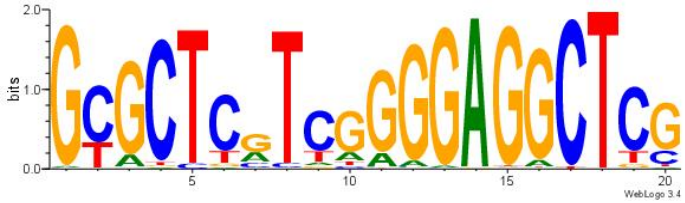

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.116761

Alignment:

```
GCTGTGTGACCTTGGGCAAG
---AGACCAGCCTGGCCAAC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

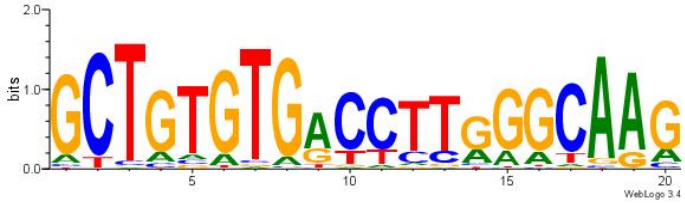

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

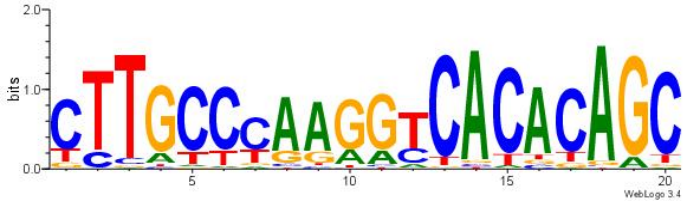

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.117647

Alignment:
GTTTAACCATTGAGGGCCAG
---AGACCAGCCTGGCCAAC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

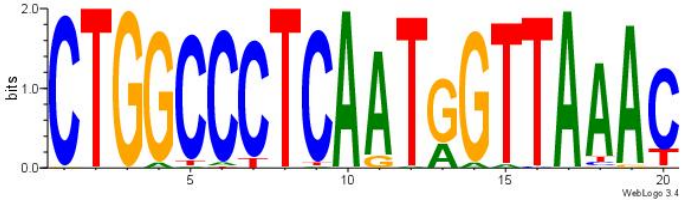

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

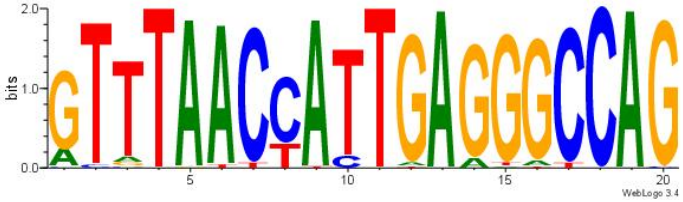

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.117676

Alignment:
AGTTGTAATTGGGAGACTT
-GTTGGCCAGGCTGGTCT-

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

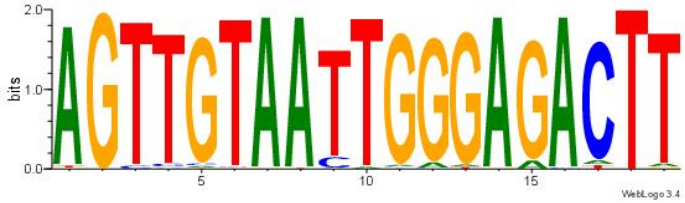

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

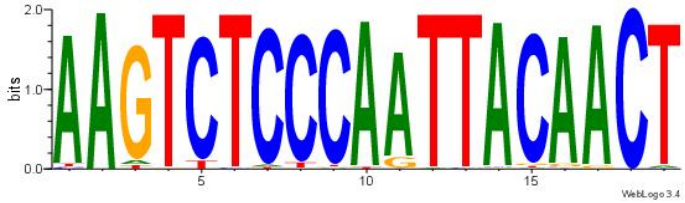

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.118182

Alignment:

```
HAGTGGKATTGCTGGATCAT
--GTTGGCCAGGCTGGTCT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

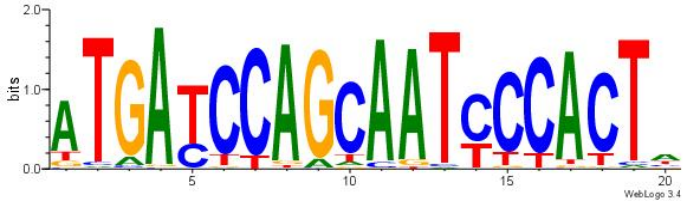

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

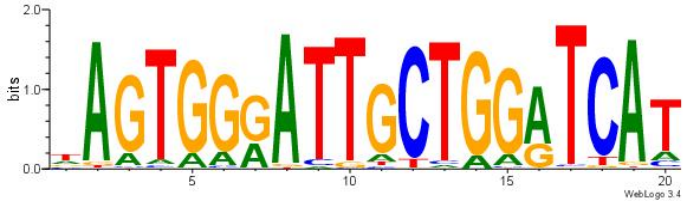

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.118373

Alignment:

```
ATAAAAACTTGCTGGTTTT
-GTTGGCCAGGCTGGTCT-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

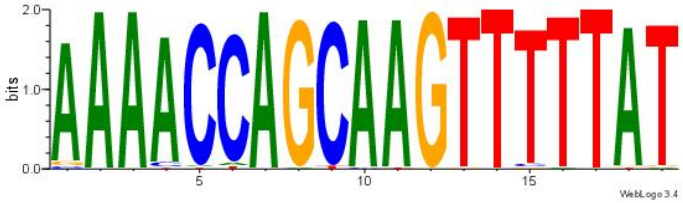

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

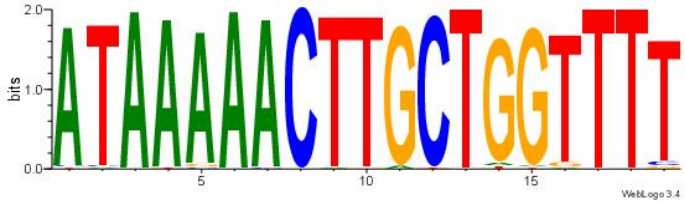

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.118562

Alignment:
ACTTTGGACTGTGGACTTTT
--GTTGGCCAGGCTGGTCT-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

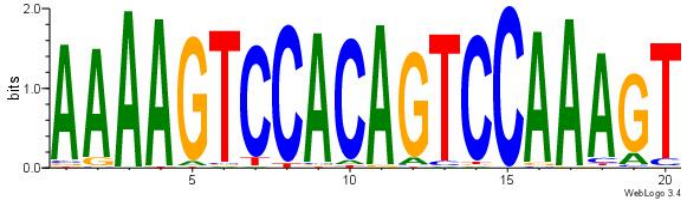

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

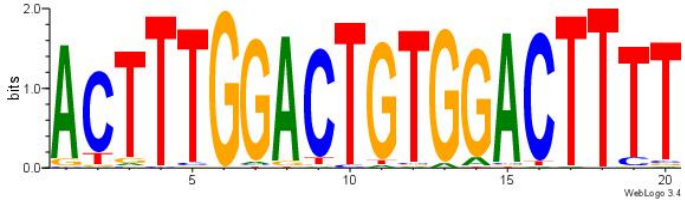

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.119274

Alignment:
AAATTAGGCCAATTAATAAC
AGACCAGCCTGGCCAAC---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

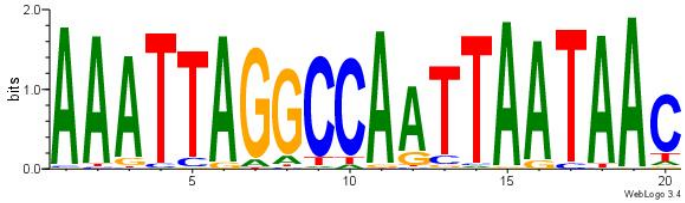

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.119892

Alignment:

```
GGTGCCCCTCTGGGACRAA
--AGACCAGCCTGGCCAAC
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

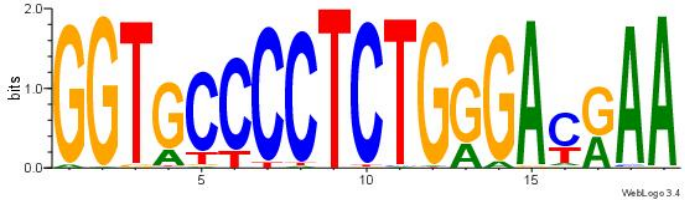

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

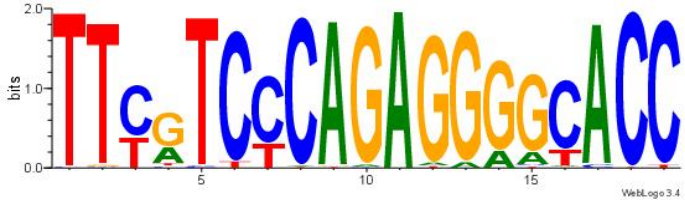

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.120246

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-GTTGGCCAGGCTGGTCT--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

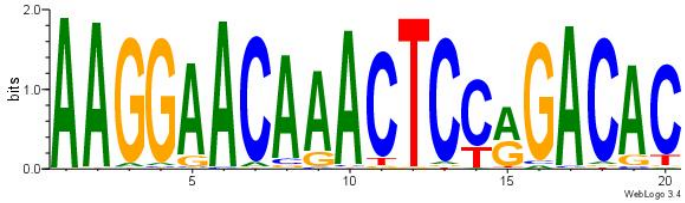

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

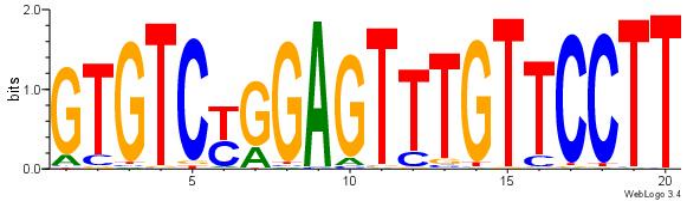

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.120763

Alignment:
GCGMGCGGGAACCGGGGCT
--GTTGGCCAGGCTGGTCT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

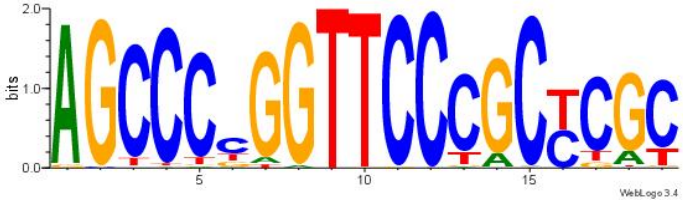

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

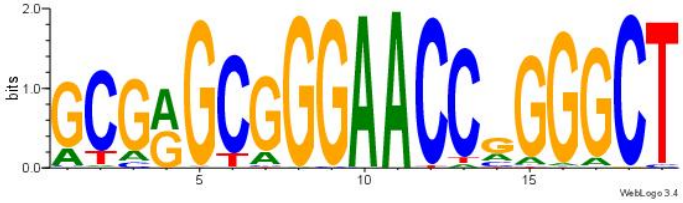

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.121484

Alignment:
AAGCTGAGGGAGCCGGCTCC
---GTTGGCCAGGCTGGTCT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

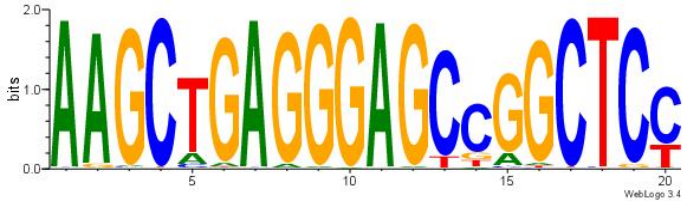

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

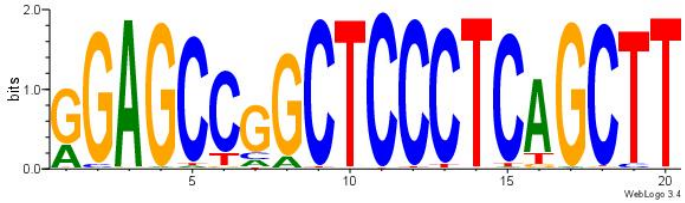

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.121733

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GTTGGCCAGGCTGGTCT---
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

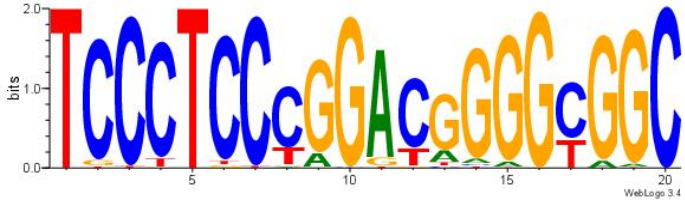

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

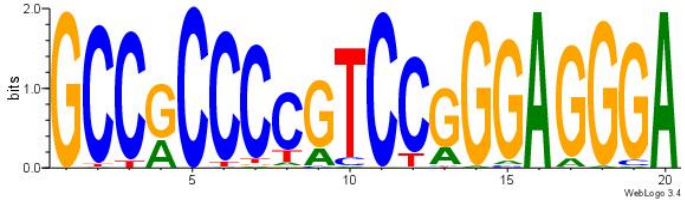

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.122308

Alignment:

```
AACAACASACACTGGGGCCT
---GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

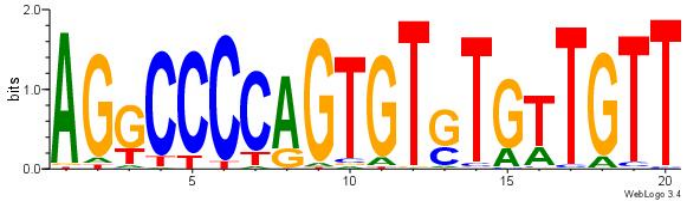

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

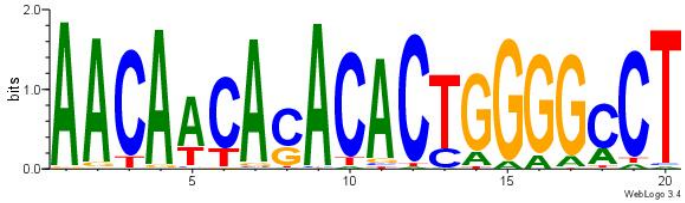

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.122488

Alignment:
GTGCCAGGCACTGTKCTARG
GTTGGCCAGGCTGGTCT---

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

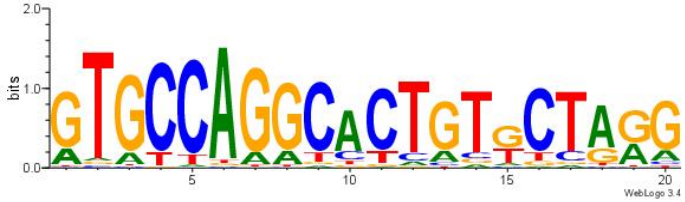

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

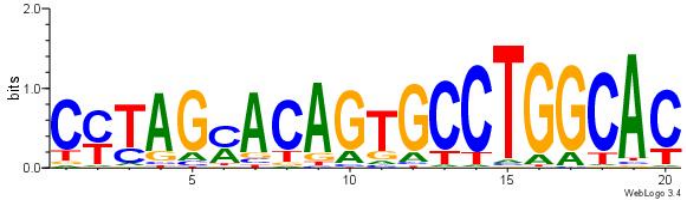

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.122557

Alignment:
AGCCYCTGGYAACCAYYAWT
AGACCAGCCTGGCCAAC---

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

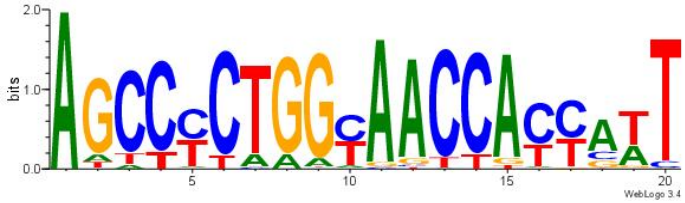

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

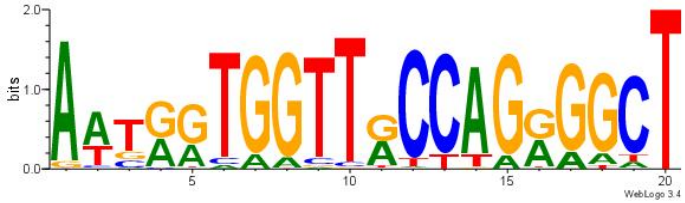

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.123208

Alignment:

```
GCCGGGRAGAGGCGCTCCT
--GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

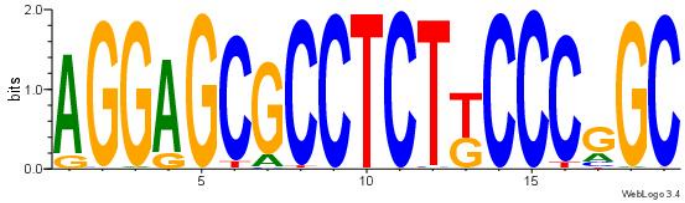

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

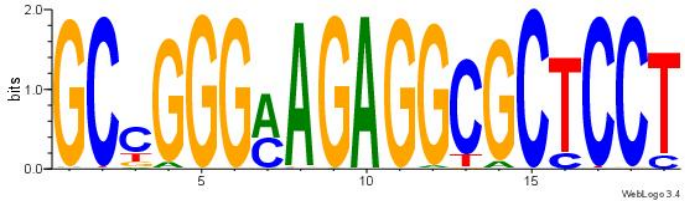

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.12328

Alignment:

```
GGCAATGCCTCGCCCTGCTT
AGACCAGCCTGGCCAAC---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

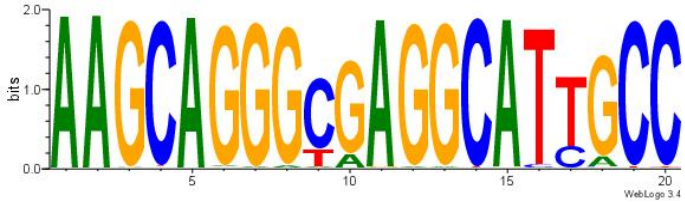

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

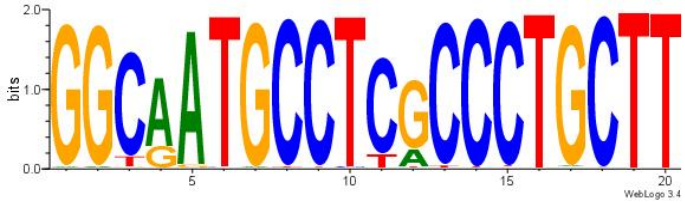

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.124128

Alignment:
CRTGAGCCACYGYRCCYGGC
--AGACCAGCCTGGCCAAC-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

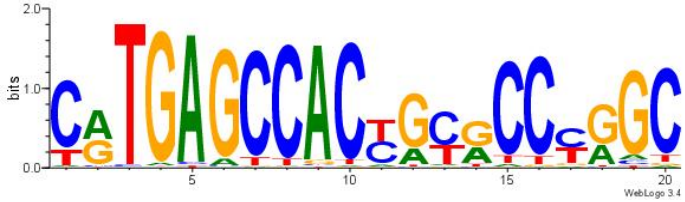

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

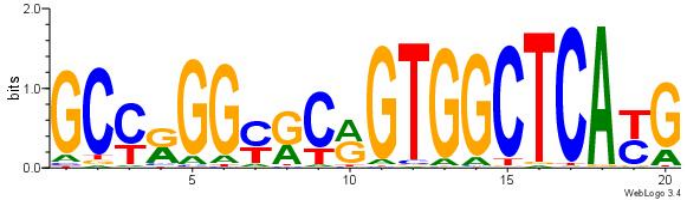

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.125067

Alignment:
ATGGACAYTTRGGTTGHTTC
---GTTGGCCAGGCTGGTCT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

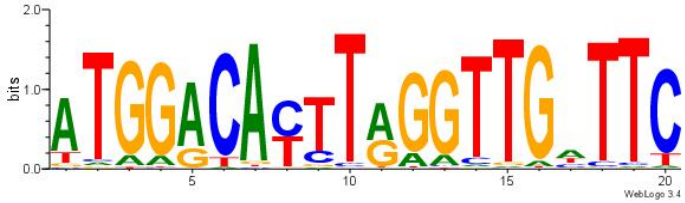

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

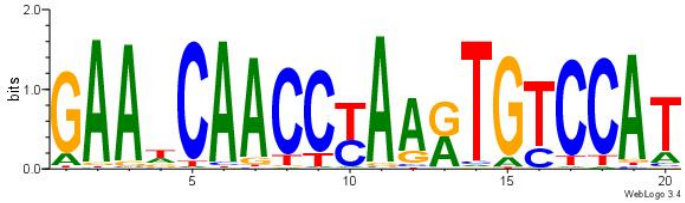

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.125162

Alignment:

```
ATGGCTGAATAKTATTCCAT
---GTTGGCCAGGCTGGTCT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

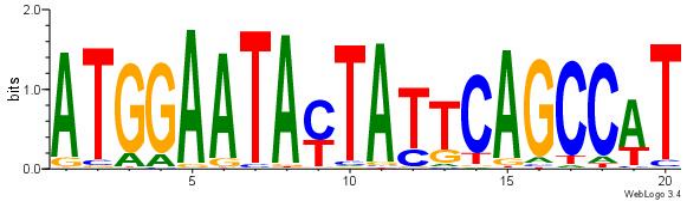

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

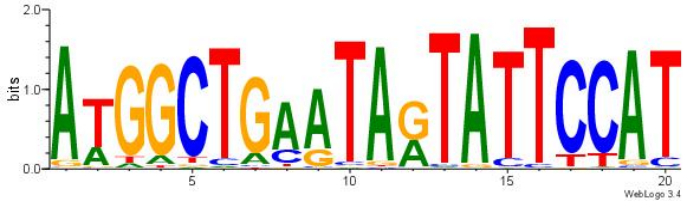

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.12552

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
---AGACCAGCCTGGCCAAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

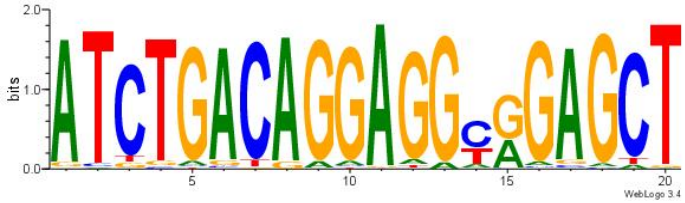

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

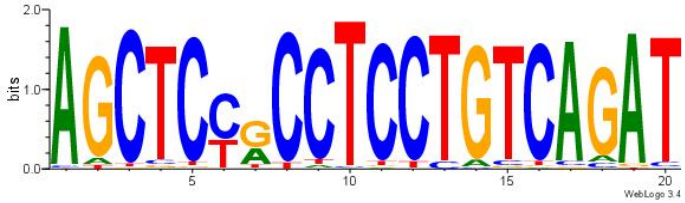

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.125531

Alignment:
CGCCCATCGTCTGGGATGT
AGACCAGCCTGGCCAAC--

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

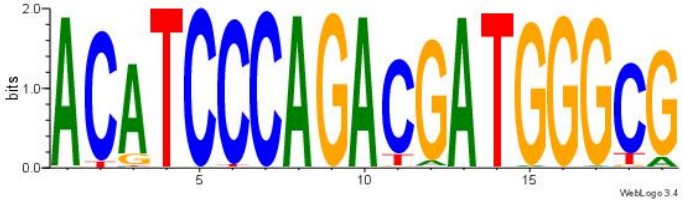

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

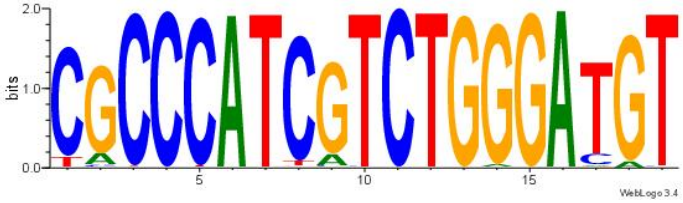

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.126045

Alignment:
CAAASCKGTCATAGGCCAT
--AGACCAGCCTGGCCAAC

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

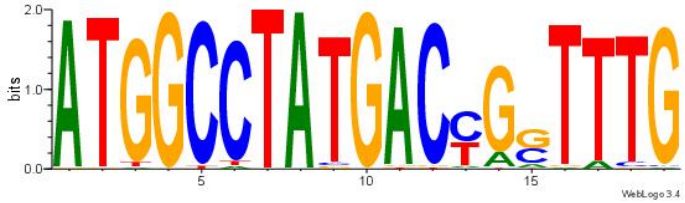

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

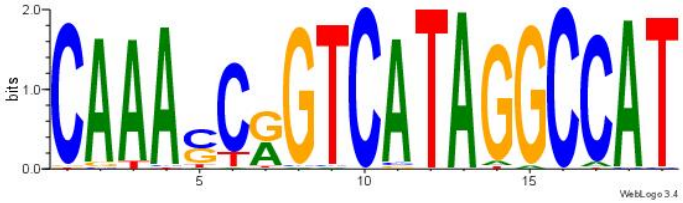

Dataset #: 1 Motif ID: 13 Motif name: Motif 13

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

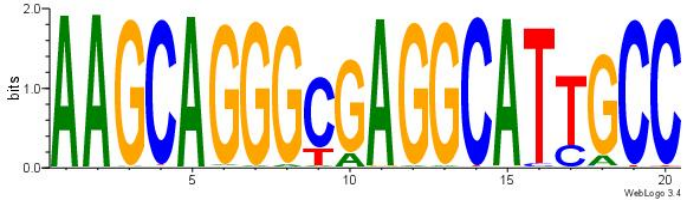

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

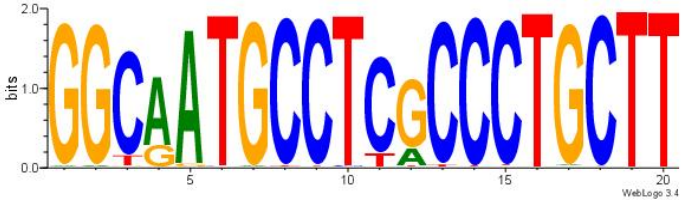

Best Matches for Motif ID 13 (Highest to Lowest)

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0876504

Alignment:
AAGCTGAGGGAGCCGGCTCC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

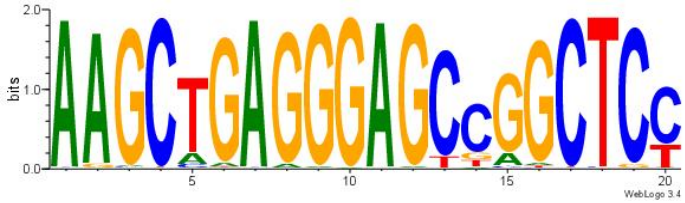

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

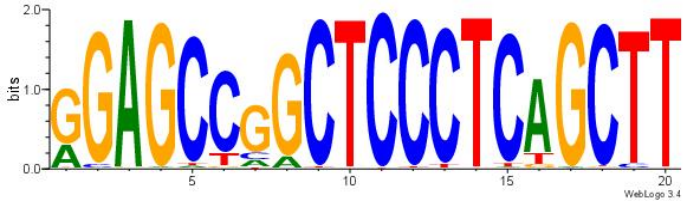

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.115324

Alignment:
TCCAAATGGGAGAAATTGGC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

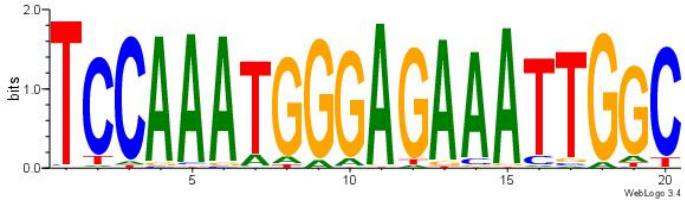

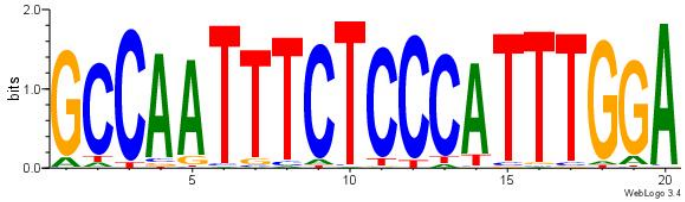

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115526

Alignment:

```
ACACATCACAAAGCAGTTTC
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

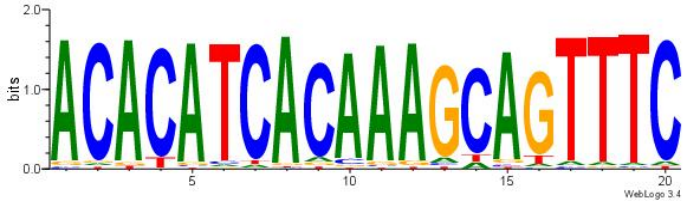

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

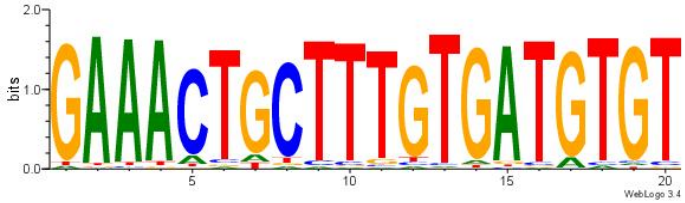

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119281

Alignment:
AATGAKATCATGTCYTTTGC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

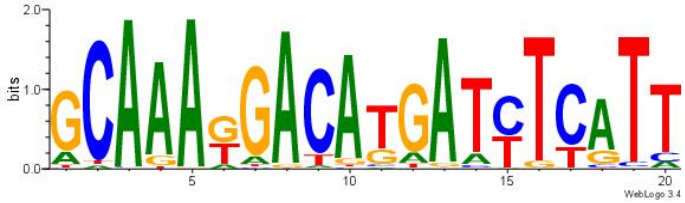

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

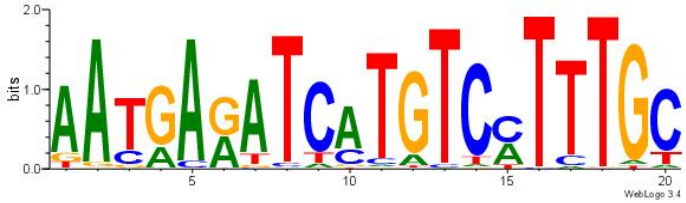

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.120924

Alignment:
GCACATGTAYCCYAGAACTT
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

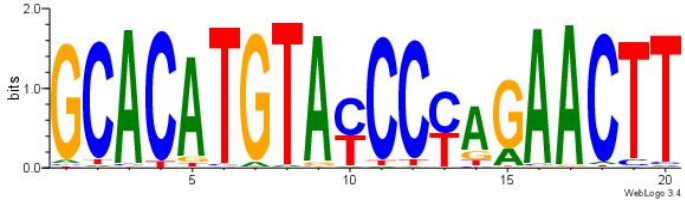

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

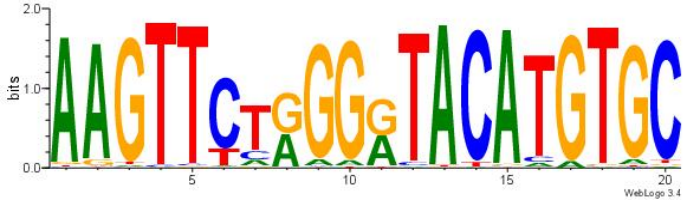

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.124286

Alignment:
ACCGAGMKMGCAGCTTCGGG
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

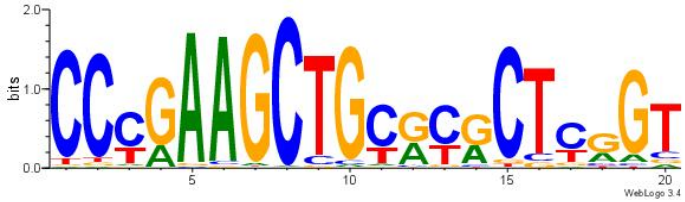

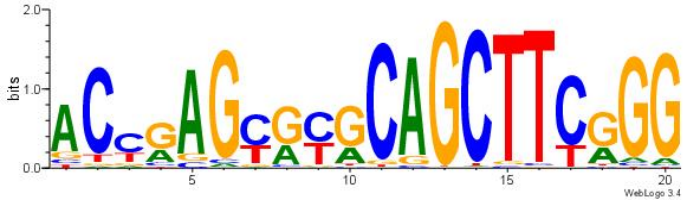

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124961

Alignment:

```
AAATTAGGCCAATTAATAAC
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

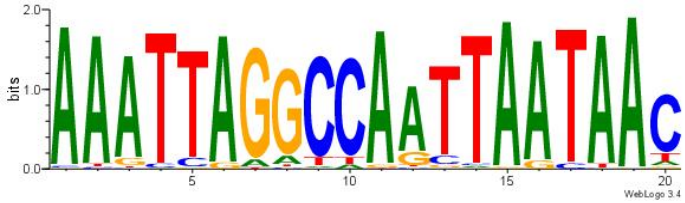

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129473

Alignment:

GGCACTGCTGGGGGACCCAG
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

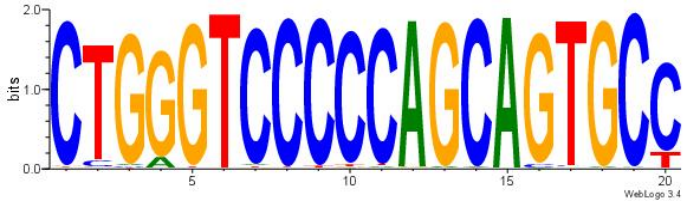

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

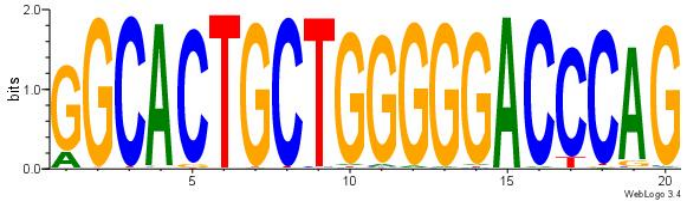

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.129696

Alignment:
AGAAATCGAGCRCAGCGCCG
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

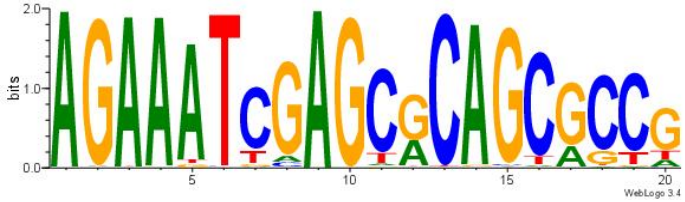

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

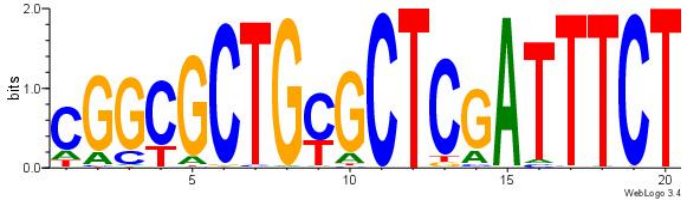

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130783

Alignment:
AATCAACCCTGGYRATCAAT
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

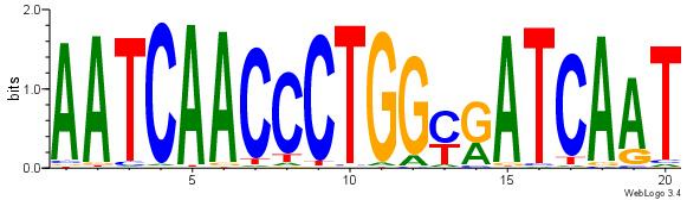

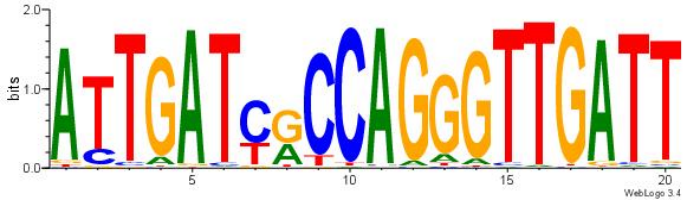

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130995

Alignment:
GCTCCACCCAGTTCGAGCTT
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

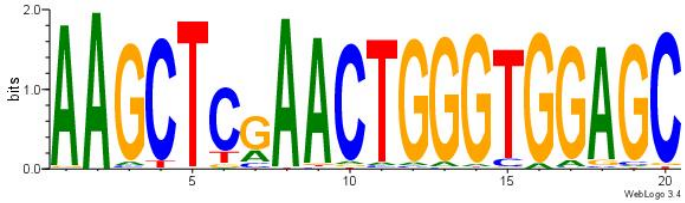

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

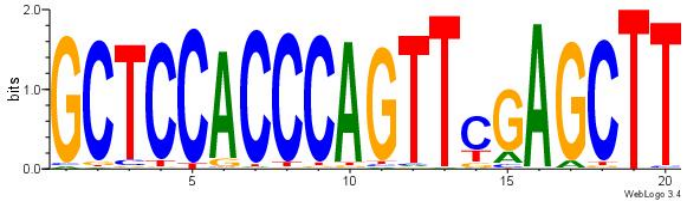

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131897

Alignment:

```
AAAMAMMKMATGTTCTCACT
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

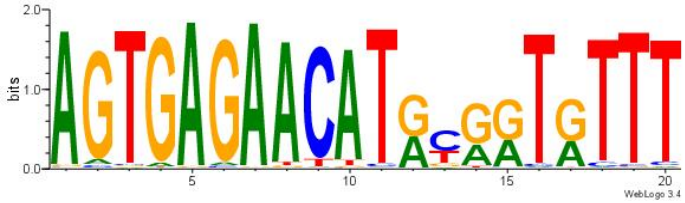

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

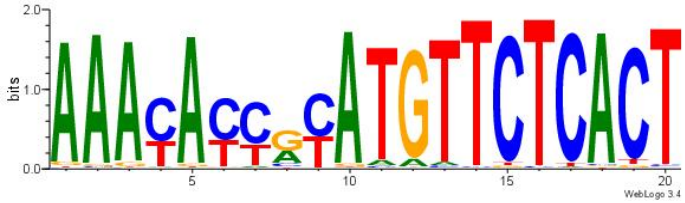

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.132495

Alignment:
CTCCAGKTMCATCCATGTTG
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

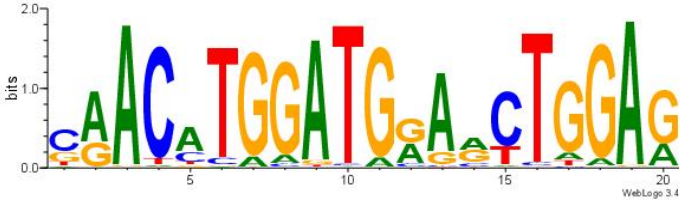

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

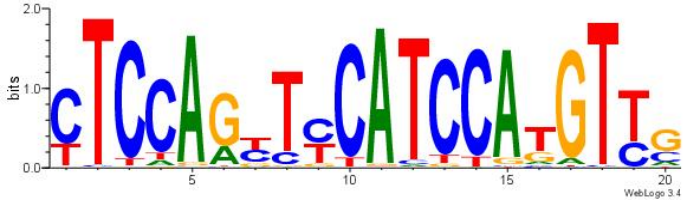

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134457

Alignment:
CACCAGGAGATTATATCCCR
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

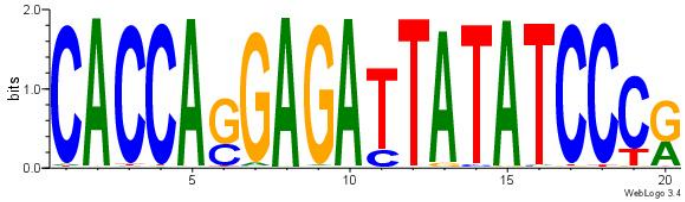

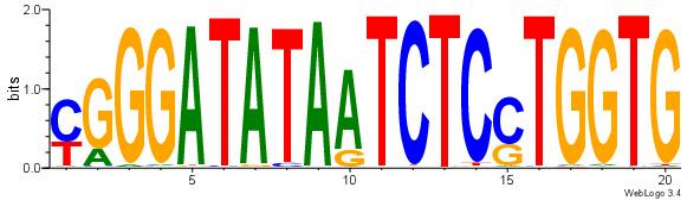

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135585

Alignment:

```
ATCTGACAGGAGGYRGAGCT
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

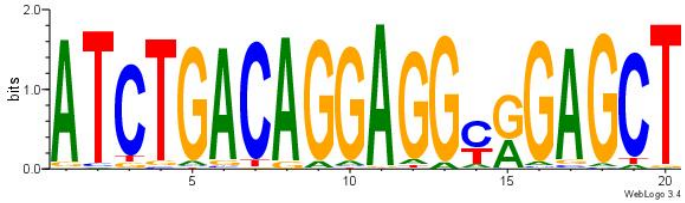

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

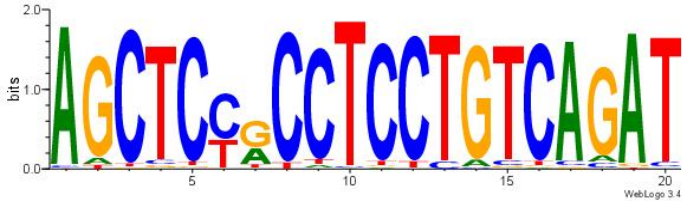

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13656

Alignment:

```
GGCATCACGGATCCTACCAA
GGCAATGCCTCGCCCTGCTT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

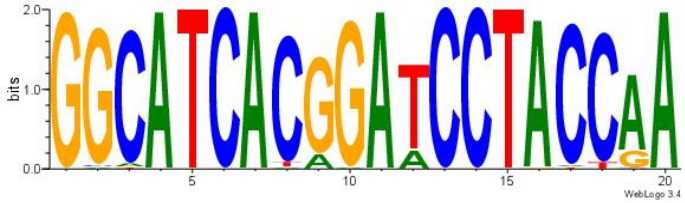

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

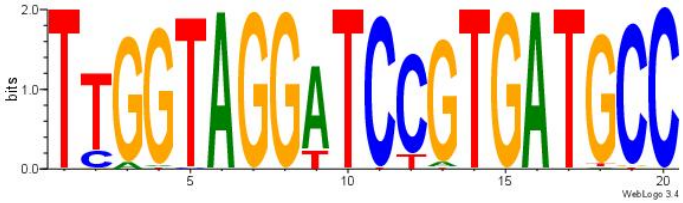

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.137111

Alignment:
GCCTCTCCCTCCACACCTCC
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

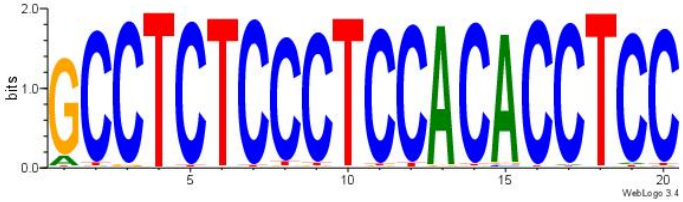

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

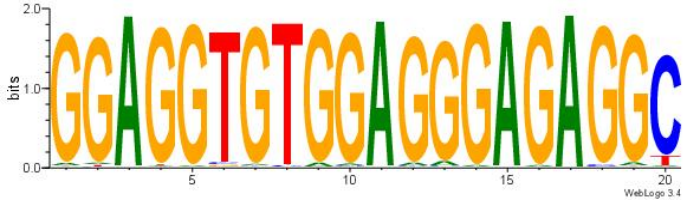

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138572

Alignment:
GCGCTCKTCGGGGAGGCTCG
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

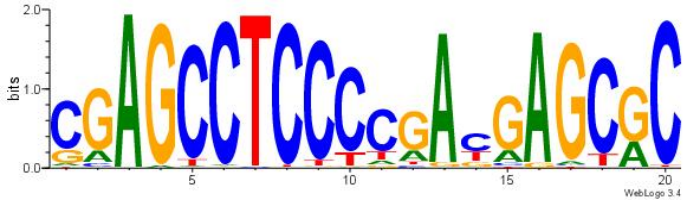

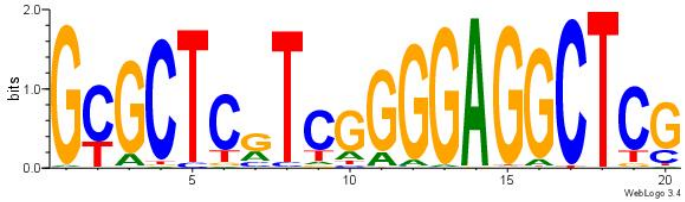

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139905

Alignment:
GTKTMTATMTACCACATTTT
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

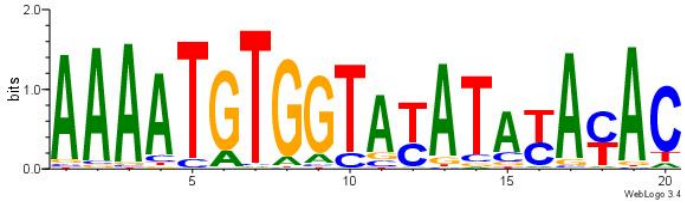

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

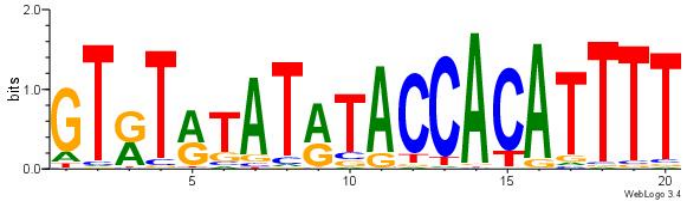

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139991

Alignment:

```
CCCMKGGCACCCTCAGTCCT
GGCAATGCCTCGCCCTGCTT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

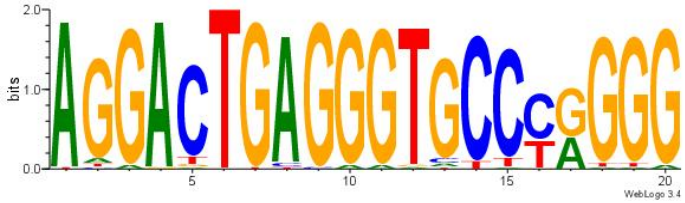

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

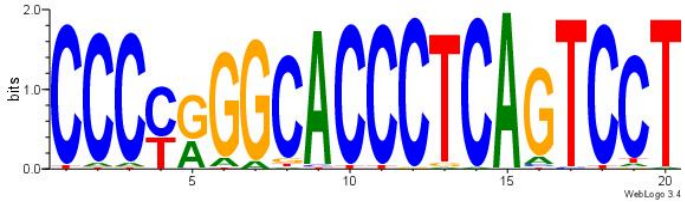

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.141622

Alignment:
CACCAGACTCAGGAGCCCAG
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

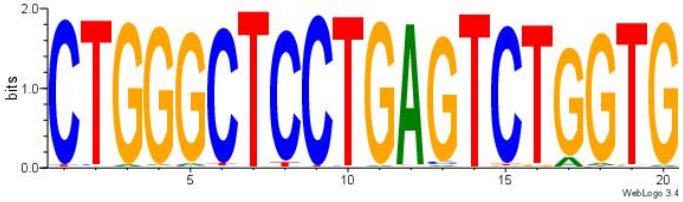

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

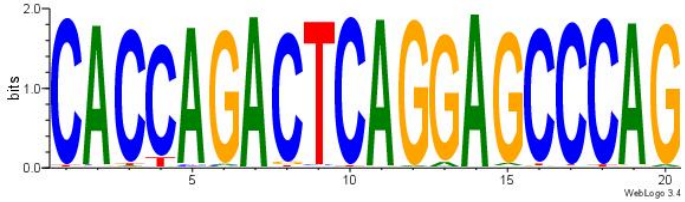

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141947

Alignment:
GACTGGCAGGCAGCTCCACC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

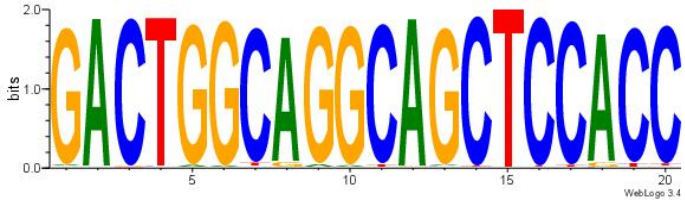

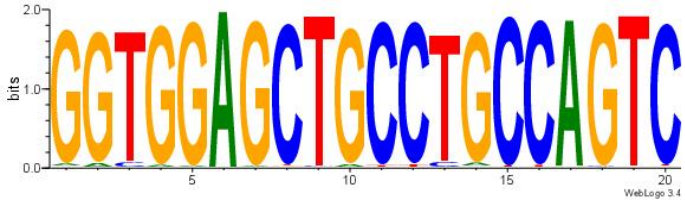

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142949

Alignment:
CMTAGYACAGTGCCTGGCAC
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

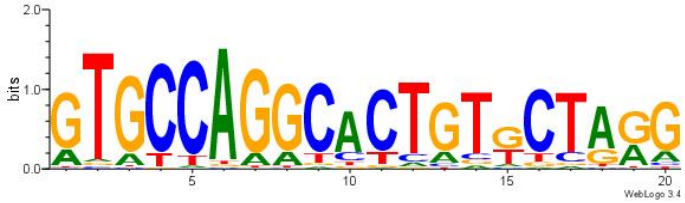

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

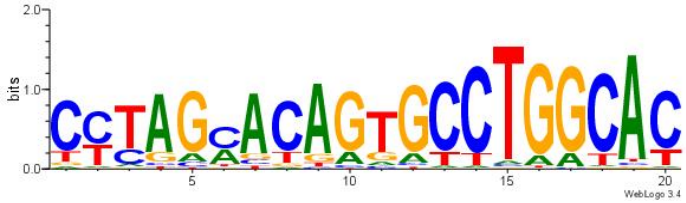

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143454

Alignment:
ATGGAATAYTATTCAGCCAT
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

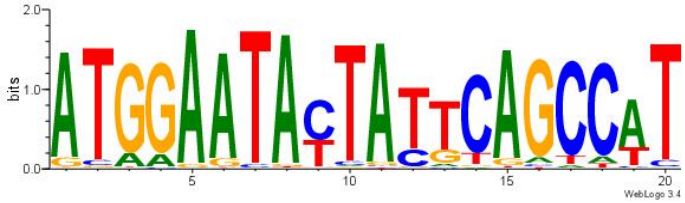

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

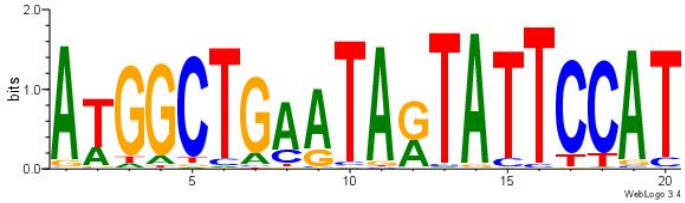

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144864

Alignment:
GGGCTCCCACAGTGCAGCGG
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

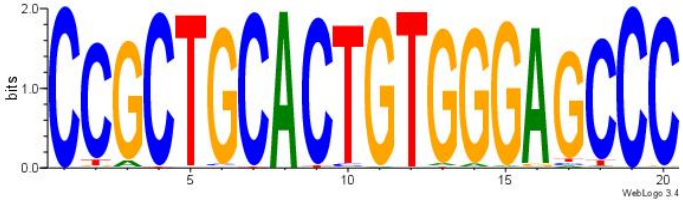

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

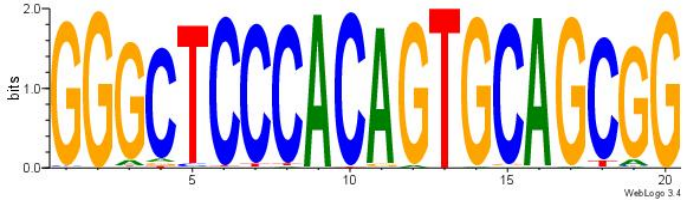

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145104

Alignment:
AGCCYCTGGYAACCAYYAWT
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

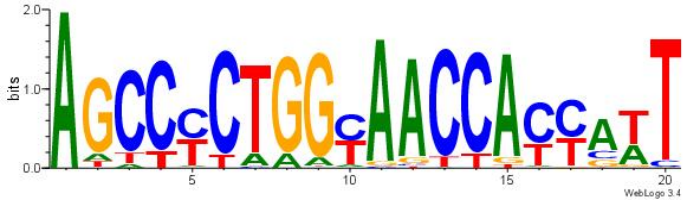

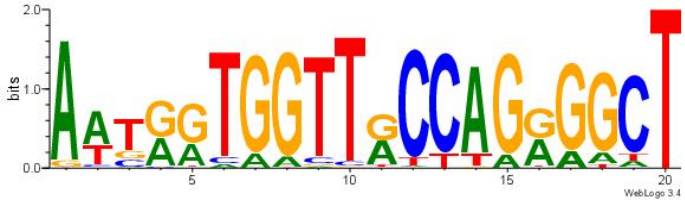

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145907

Alignment:

```
ACCCAATWTGTAGTCTTTTA
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

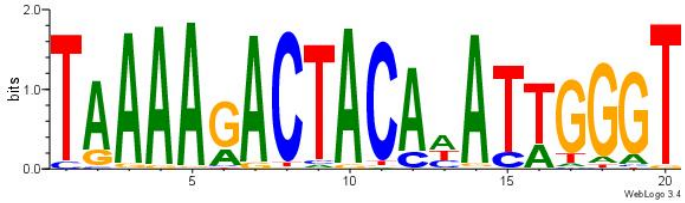

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

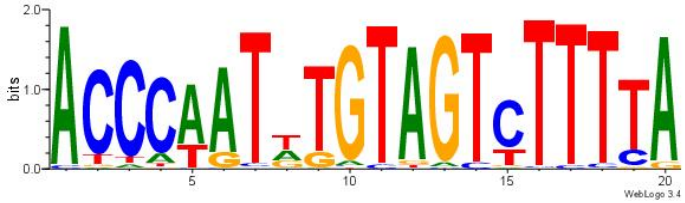

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145965

Alignment:

GGGATTGTAAATACACCAAT

GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

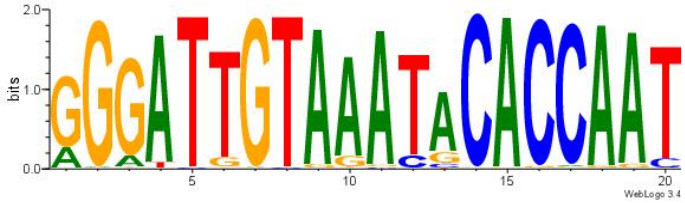

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147095

Alignment:
CTCAGTGTTAATCTCCTGTC
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

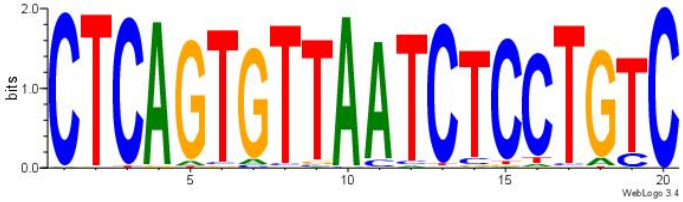

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

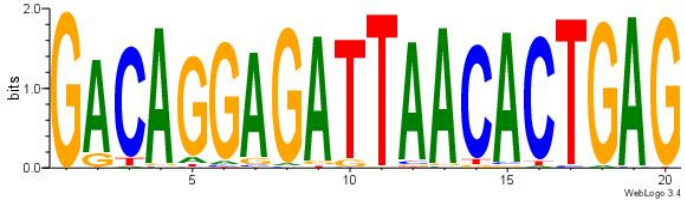

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147902

Alignment:
AAAAGTCCACAGTCCAAAGT
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

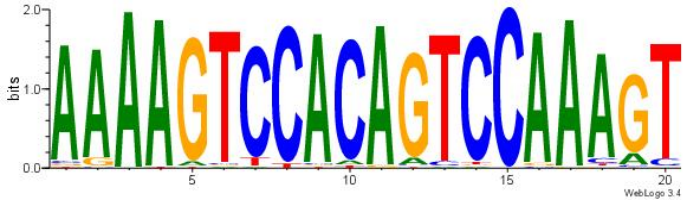

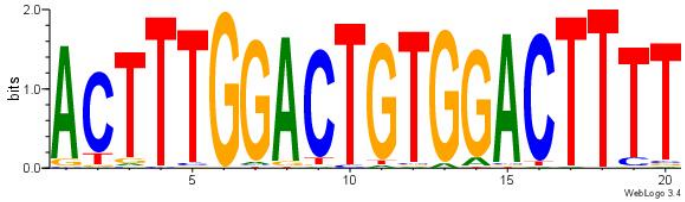

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148969

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
GGCAATGCCTCGCCCTGCTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

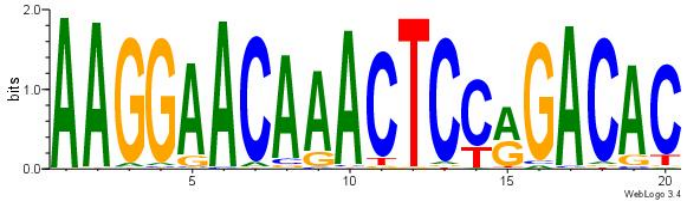

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

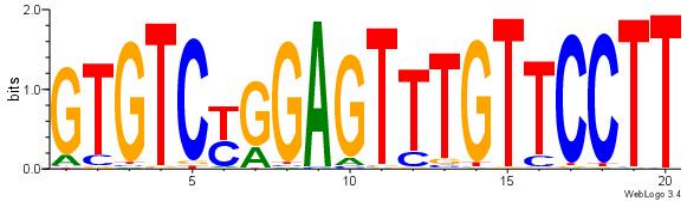

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149981

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

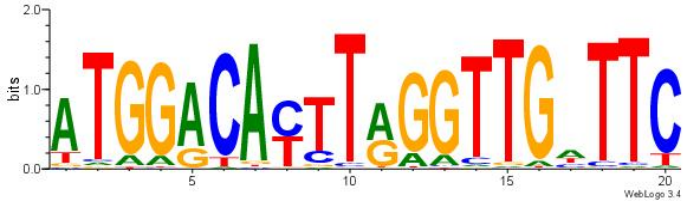

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

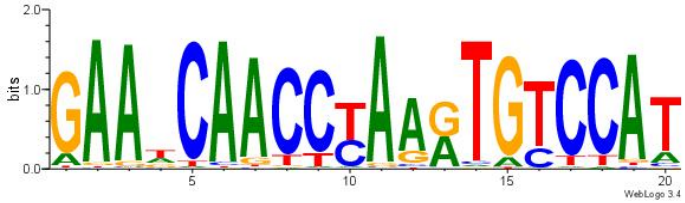

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150001

Alignment:
VMATTTAKTGAGCACCTACT
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

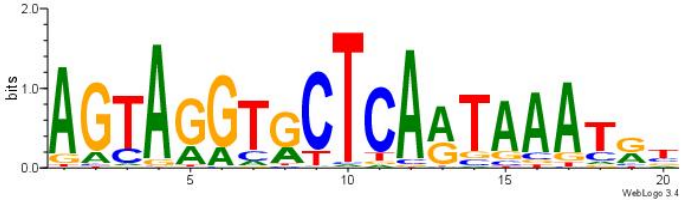

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

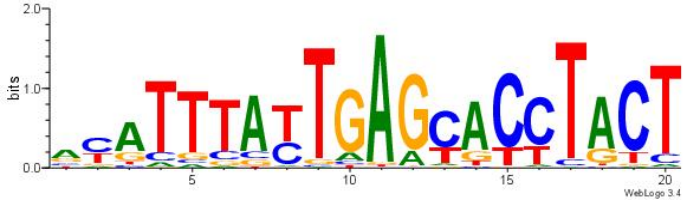

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.151315

Alignment:
GAAGGCAGCTAAGGCCCGGY
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

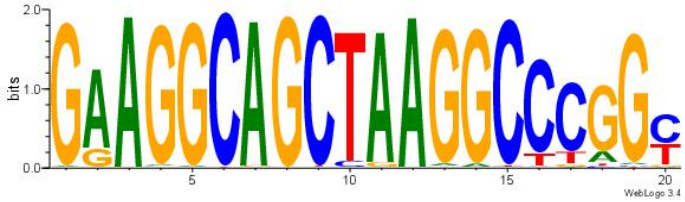

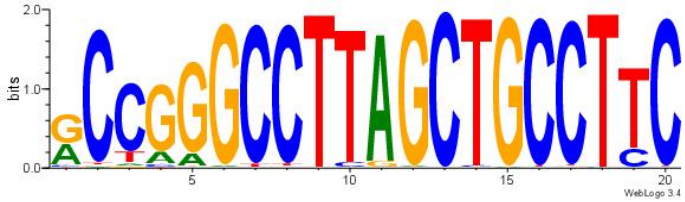

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15343

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

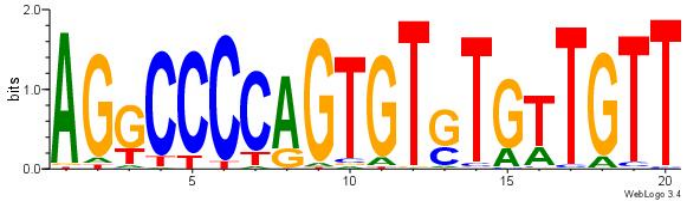

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

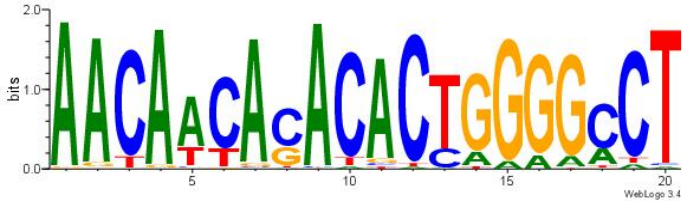

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153693

Alignment:

AAGTCCAAGATCAAGGTGYY

AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

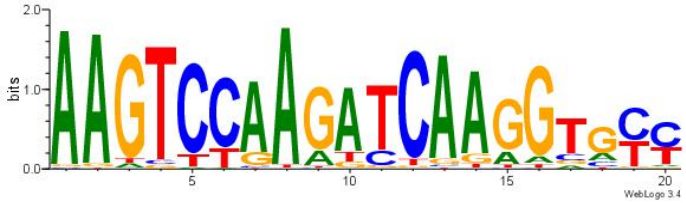

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

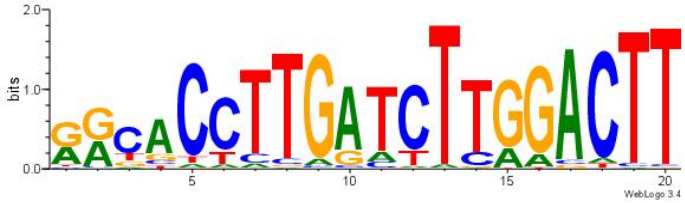

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155156

Alignment:
CTGACTGGGAGACACCTCCC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

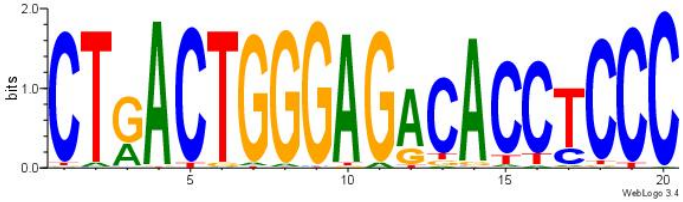

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

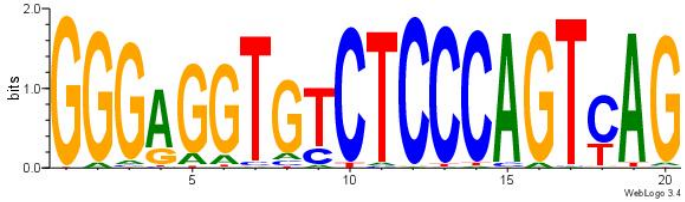

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156091

Alignment:
GGGTCAGGGAGTTCCCTTTC
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

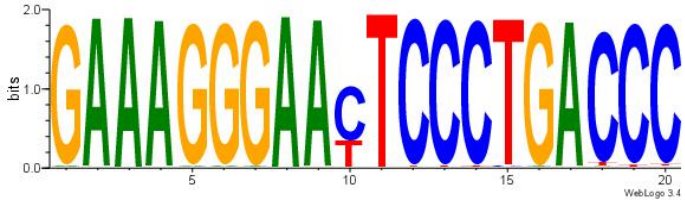

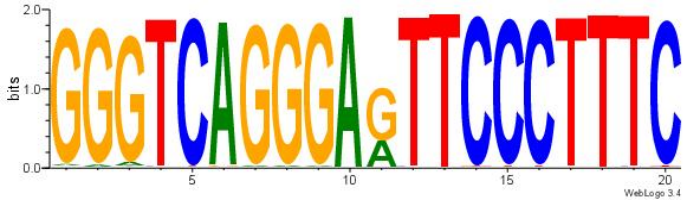

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156495

Alignment:

```
TAGATAATAGCTCCAGCTTT
GGCAATGCCTCGCCCTGCTT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

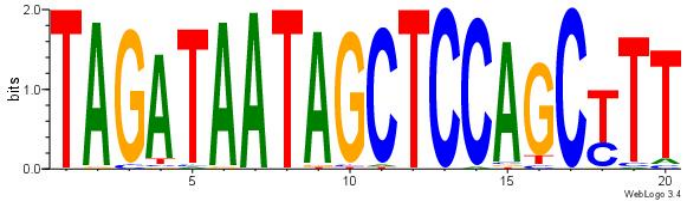

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

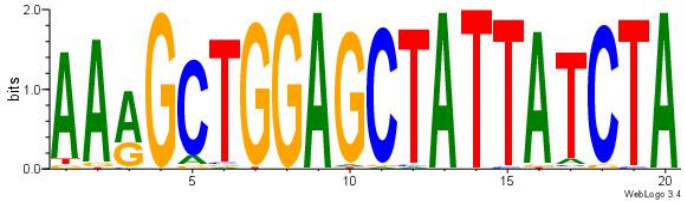

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15658

Alignment:
GTAACACTCACCGCGARGGT
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

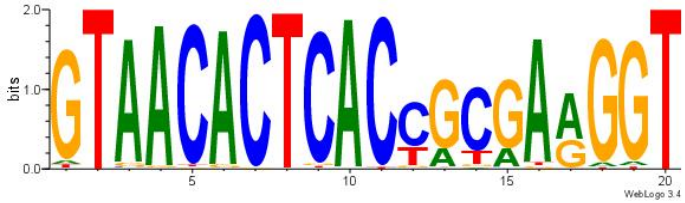

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

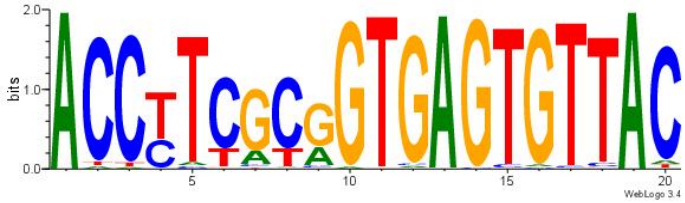

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157102

Alignment:
ATGTAACCAAAYACCACCTG
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

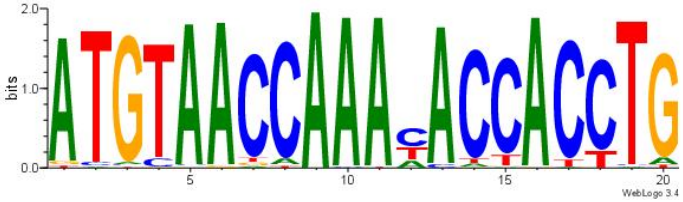

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

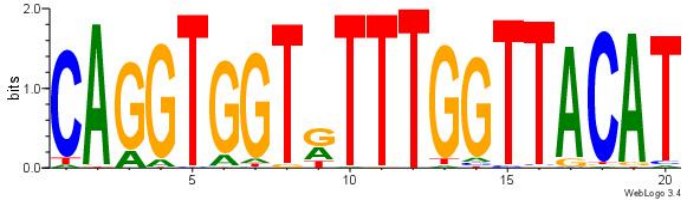

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157107

Alignment:
TCCCTCCCGGACGGGGYGGC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

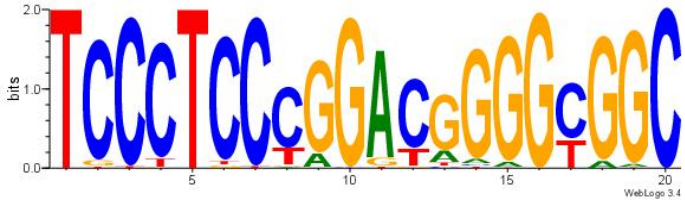

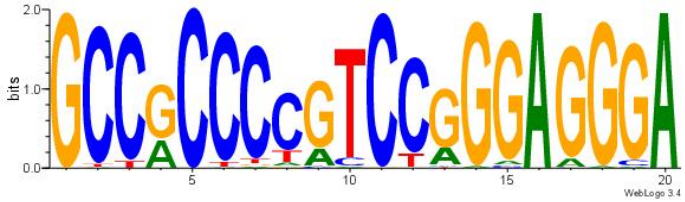

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157566

Alignment:

```
CTGGGCRACAGAGYRAGACY
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

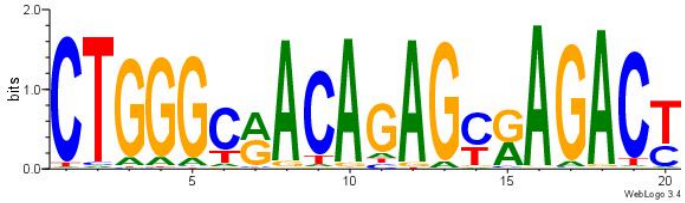

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

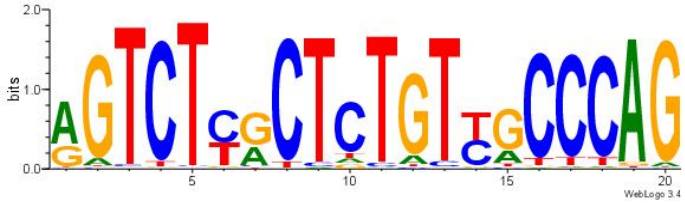

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157671

Alignment:

```
TGGCTTCACCCAGTGGATCC
AAGCAGGGCGAGGCATTGCC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

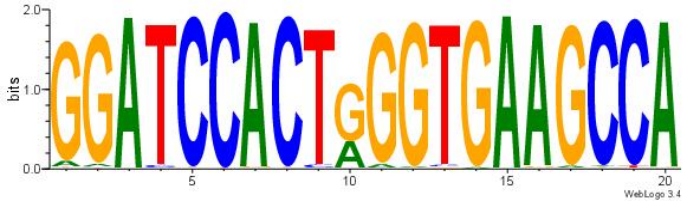

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

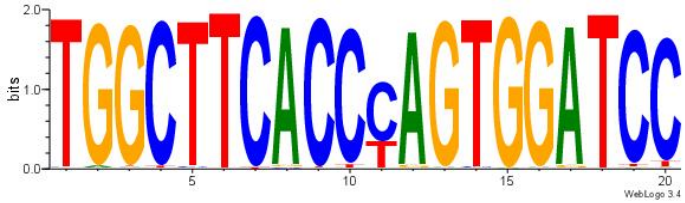

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157867

Alignment:
AAATTACCCAGTCTCAGGTA
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

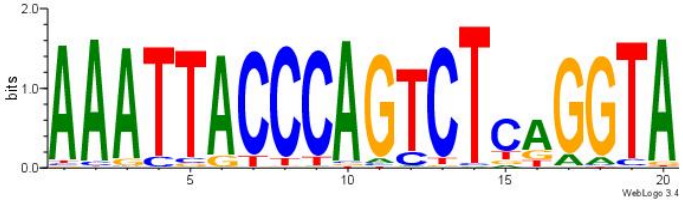

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

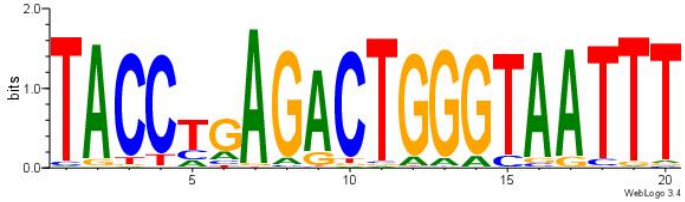

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15883

Alignment:
AGGTCCTTCAGGAGGTATTC
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

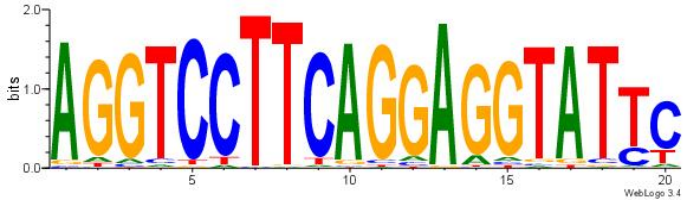

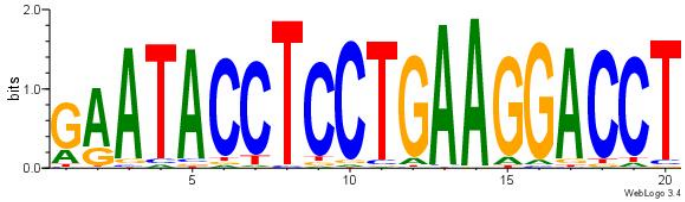

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159367

Alignment:
TMGGGAGGCTGAGGCAGGAG
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

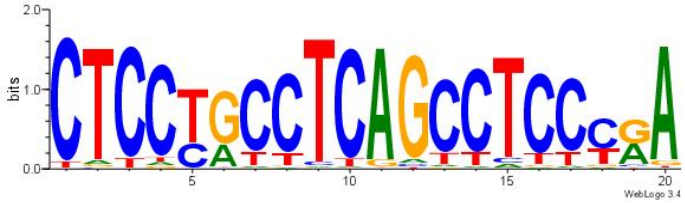

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

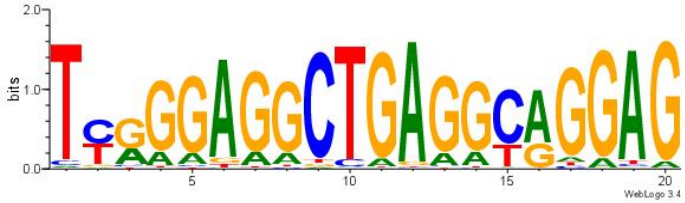

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159768

Alignment:

```
TTGTCCCACTGGAAGGTCTT
GGCAATGCCTCGCCCTGCTT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

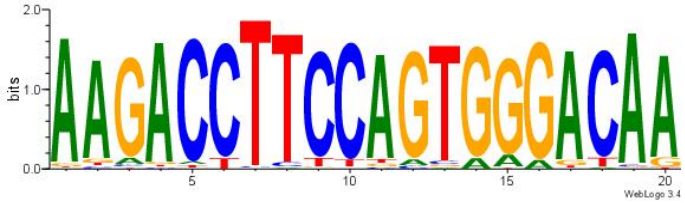

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

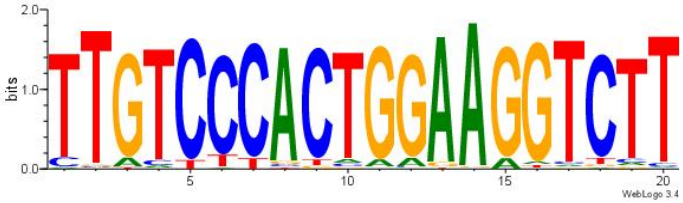

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159806

Alignment:
ATCRCTTGAGSYCAGGAGKT
GGCAATGCCTCGCCCTGCTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

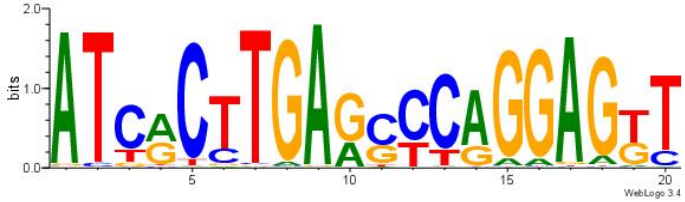

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

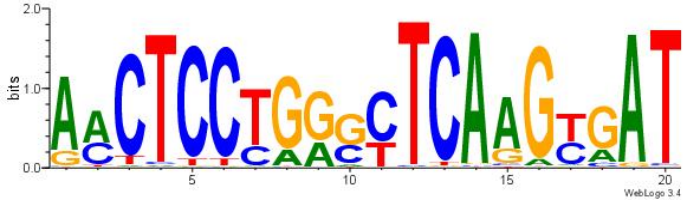

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160351

Alignment:
CTAGACATAAAGGTTCTCCA
AAGCAGGGCGAGGCATTGCC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

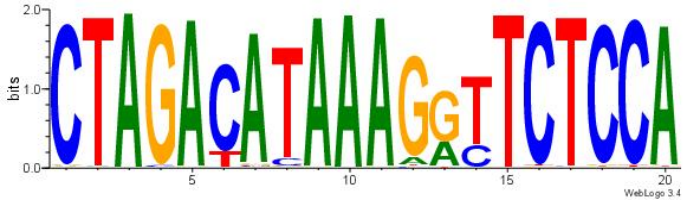

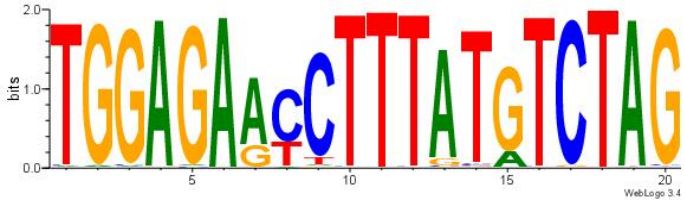

Dataset #: 1 **Motif ID: 14** **Motif name: Motif 14**

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

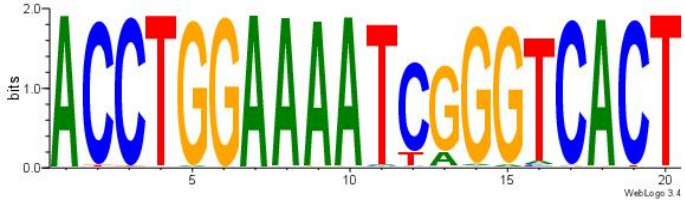

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

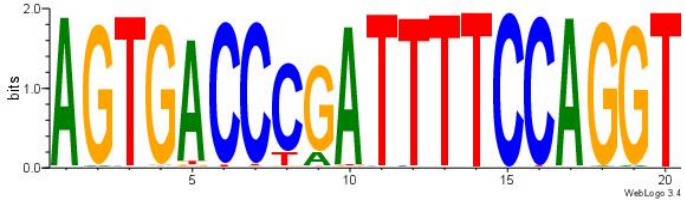

Best Matches for Motif ID 14 (Highest to Lowest)

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120636

Alignment:

GCCKGGMKCMGTGGCTCAKG
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

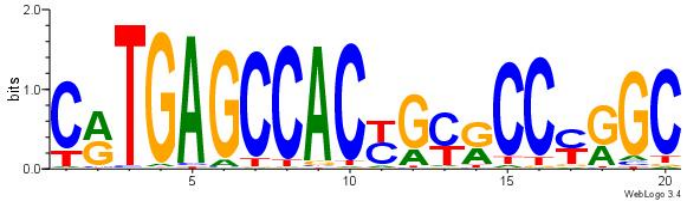

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

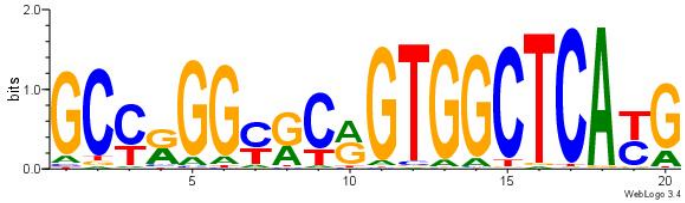

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12936

Alignment:
AAAMAMMKMATGTTCTCACT
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

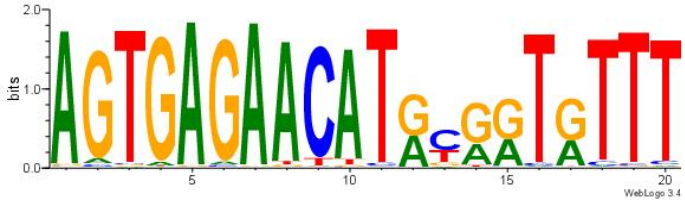

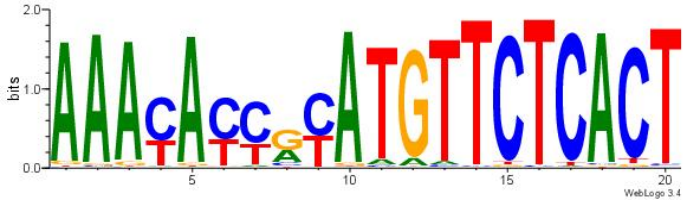

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133601

Alignment:

```
AACAACASACACTGGGGCCT
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

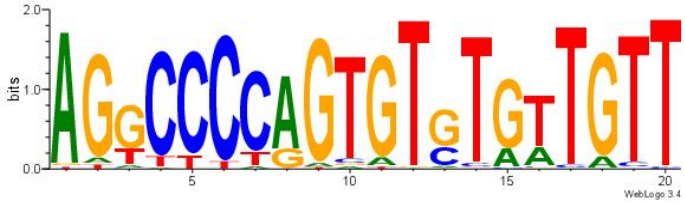

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

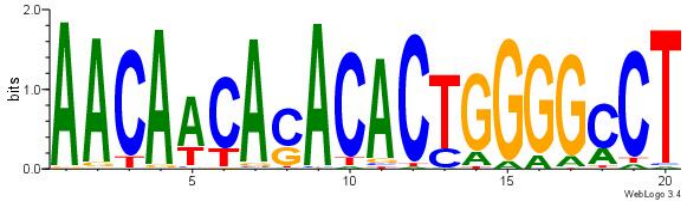

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133651

Alignment:
GTGGCCCTCTTCTCACAGCT
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

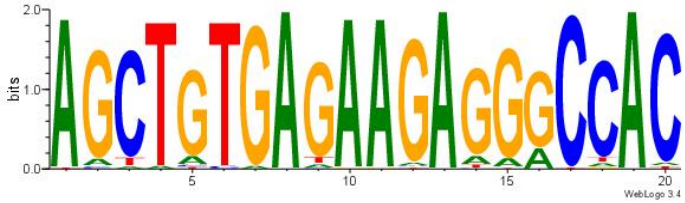

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

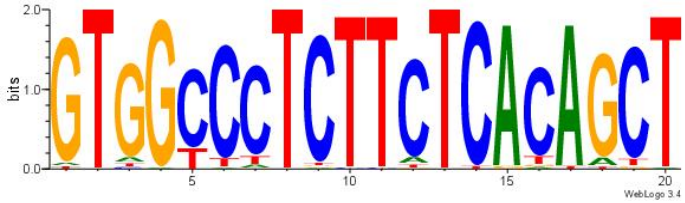

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.134283

Alignment:
GGTGGAGCTGCCTGCCAGTC
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

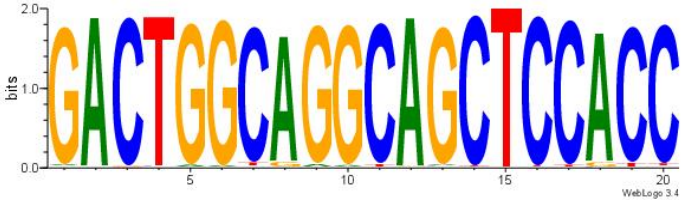

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

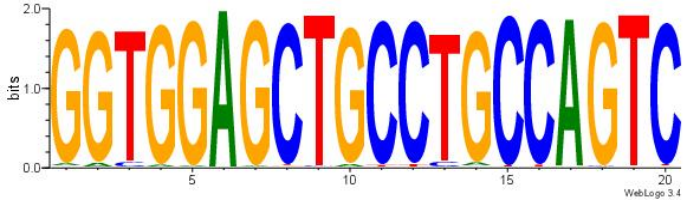

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.134876

Alignment:
ATGTGGAGGTGGAAGACAGT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

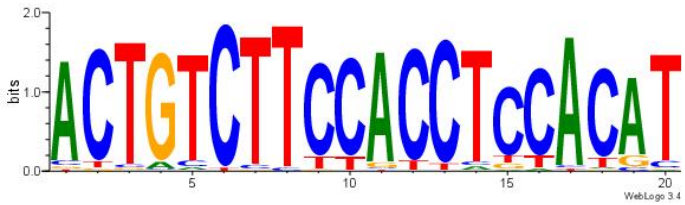

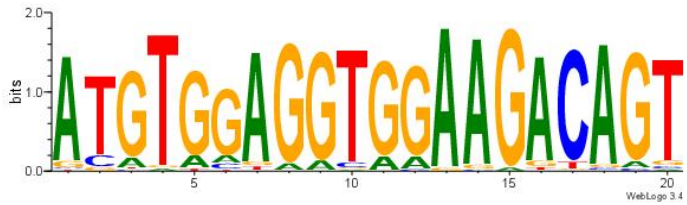

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136111

Alignment:

```
AAGTCCAAGATCAAGGTGYY
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

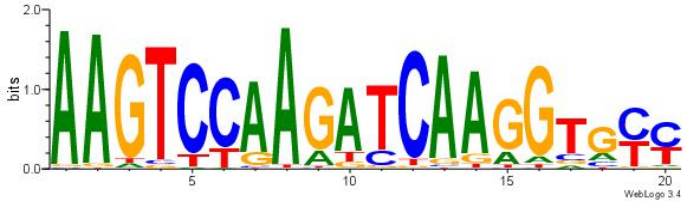

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

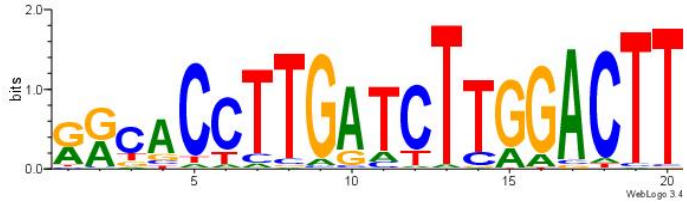

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136675

Alignment:
GCCAGTCACAAAARGACAMA
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

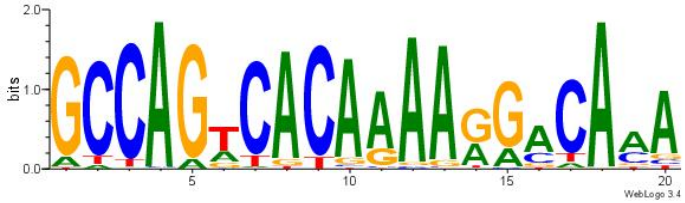

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

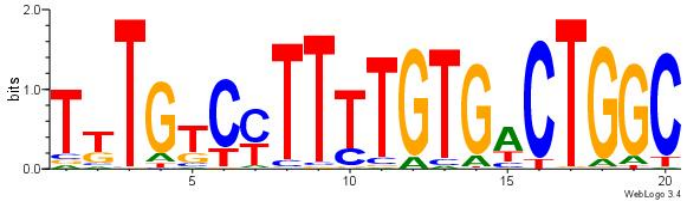

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.14045

Alignment:
ATCTGACAGGAGGYRGAGCT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

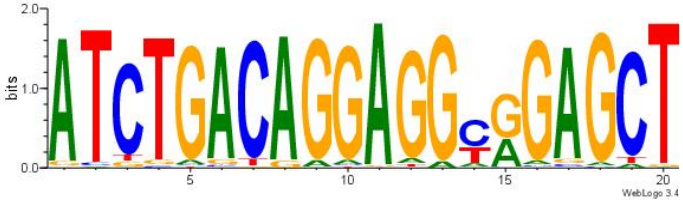

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

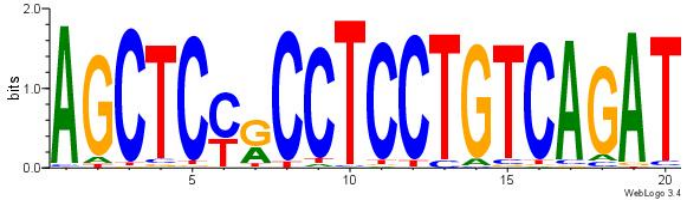

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140839

Alignment:
GGATTTMKGACTTGCATGGG
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

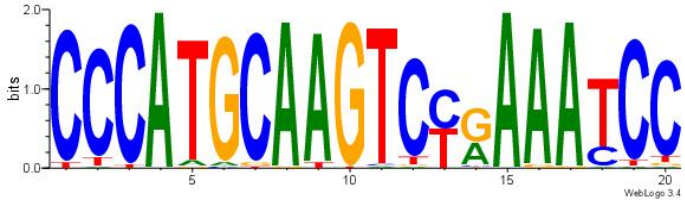

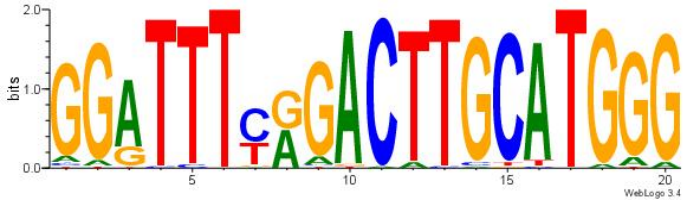

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14149

Alignment:
CGTCGCTCACGCTGGGAGCT
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

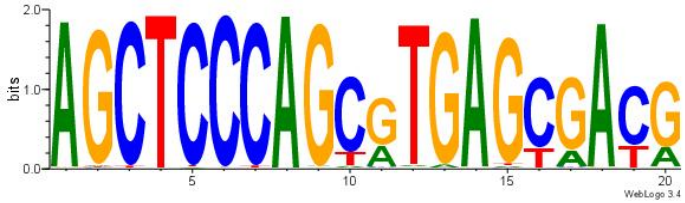

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

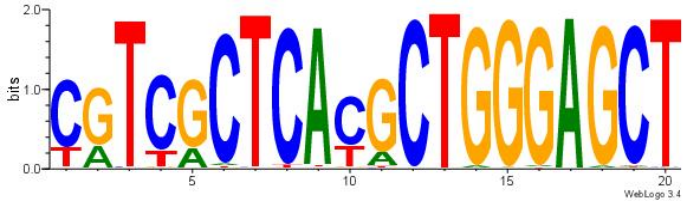

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145614

Alignment:
MGTCTMKCTCTGTKGCCCAG
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

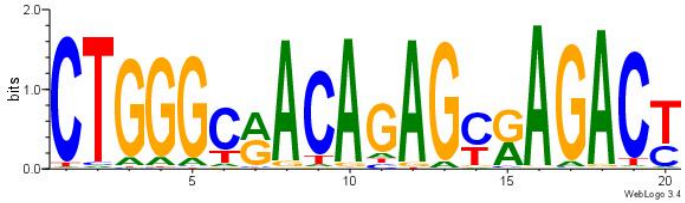

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

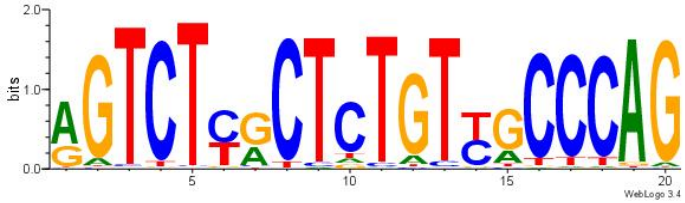

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.146239

Alignment:
CGCGGCGCTTGCGGGCCAGC
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

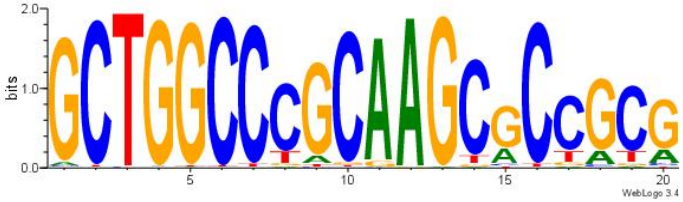

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

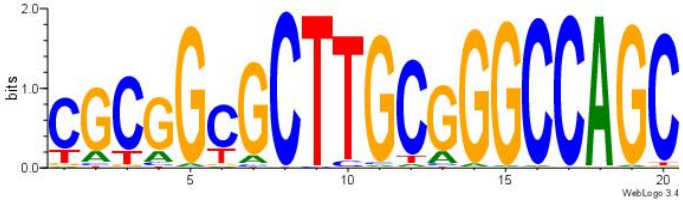

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146588

Alignment:
GCAAAKGACATGATYTCATT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

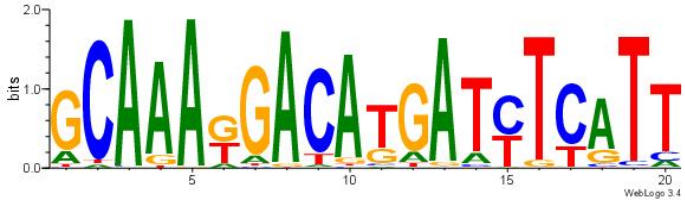

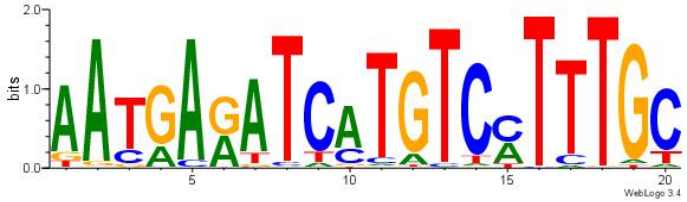

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146719

Alignment:

```
ATGATCCAGCAATYCCACTH
AGTGACCCGATTTTCCAGGT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

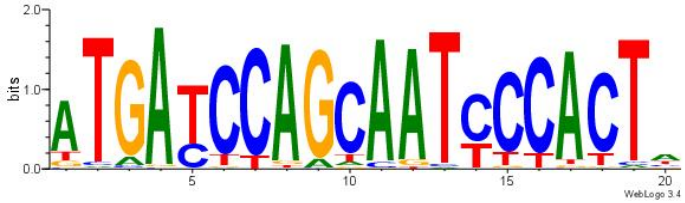

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

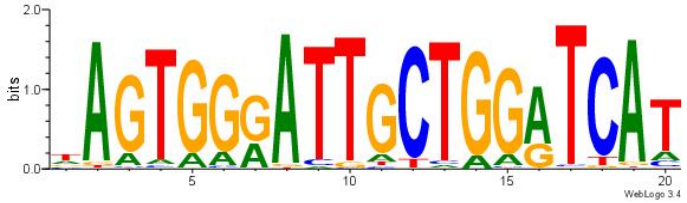

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147099

Alignment:

```
AGGACTGAGGGTGCCYRGGG
AGTGACCCGATTTTCCAGGT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

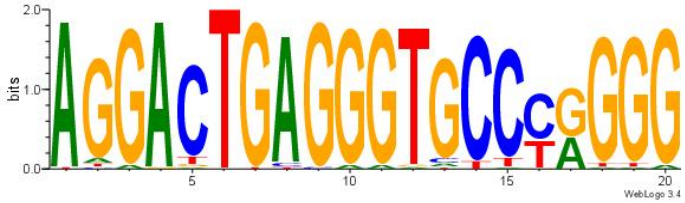

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

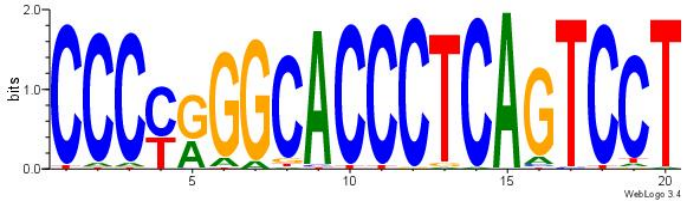

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147405

Alignment:
ACTTTGGACTGTGGACTTTT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

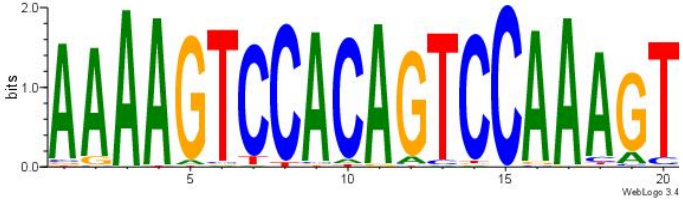

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

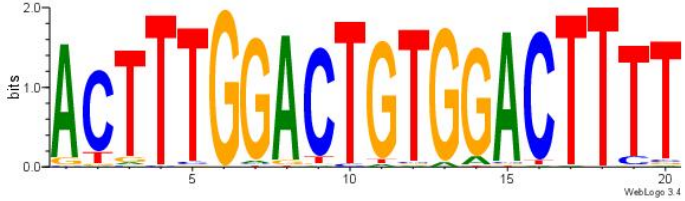

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.147858

Alignment:
TACCTGAGACTGGGTAATTT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

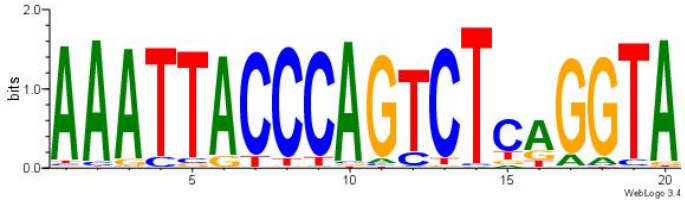

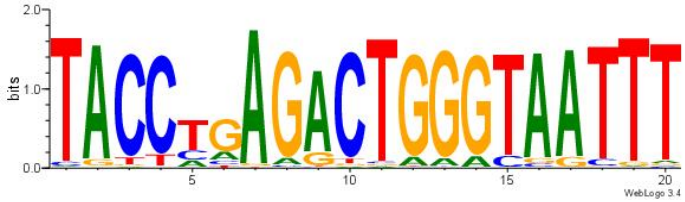

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148656

Alignment:

```
TGCTGGAGGTCCACTCCAGA
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

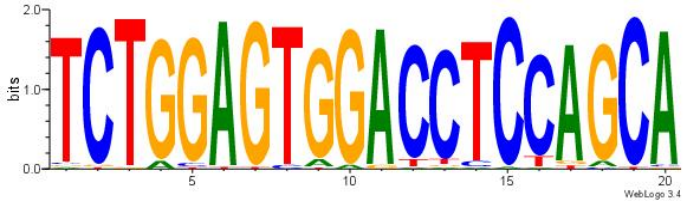

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

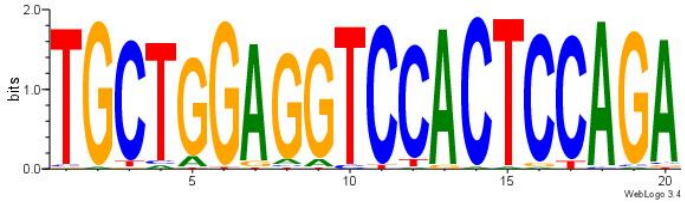

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148829

Alignment:

```
AAGGAACAAACTCCRGACAC
AGTGACCCGATTTTCCAGGT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

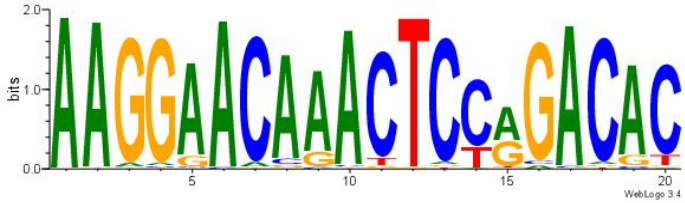

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

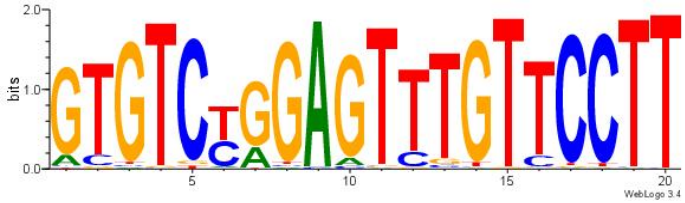

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149487

Alignment:
MGGGATATAATCTCCTGGTG
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

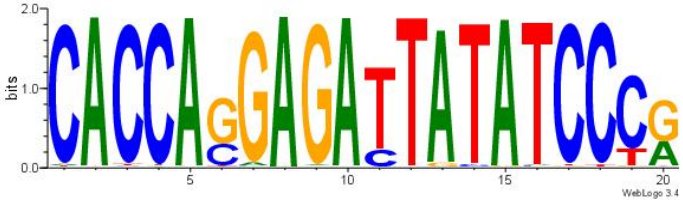

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

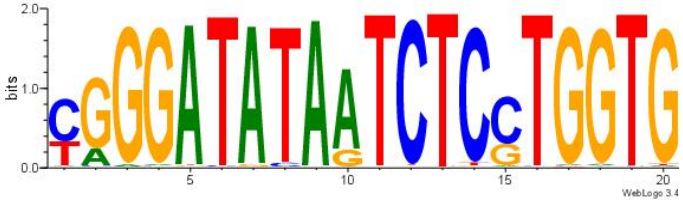

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154856

Alignment:
GGGTCAGGGAGTTCCCTTTC
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

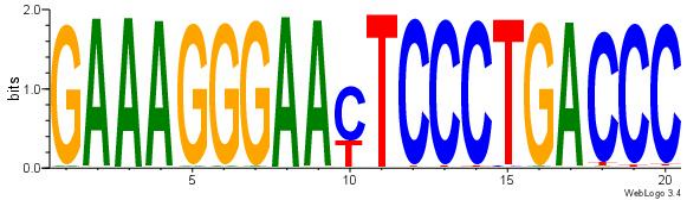

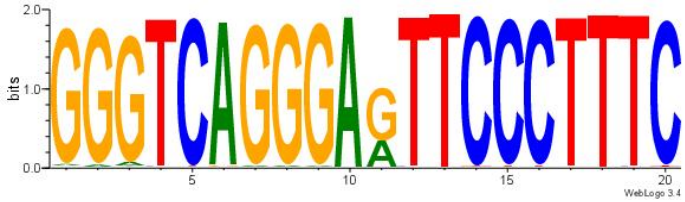

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155158

Alignment:

```
AAGCTCGAACTGGGTGGAGC
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

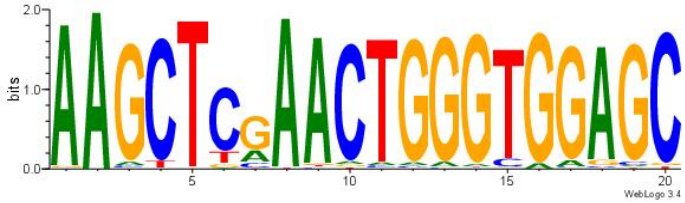

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

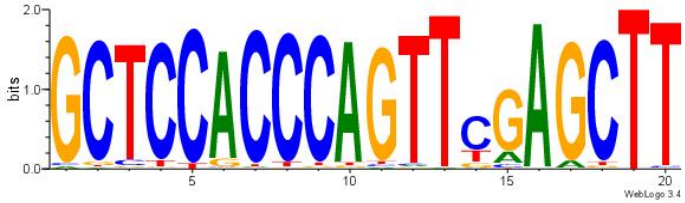

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155424

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

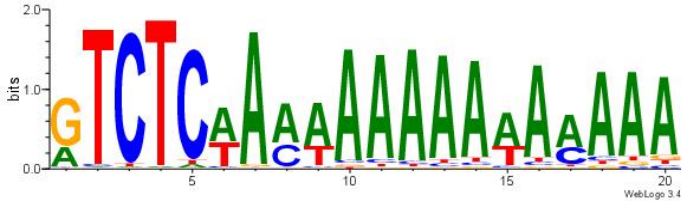

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

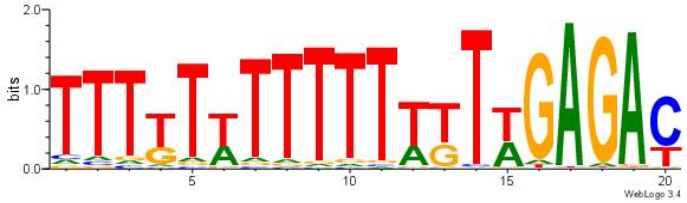

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156213

Alignment:
ACCGAGMKMGCAGCTTCGGG
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

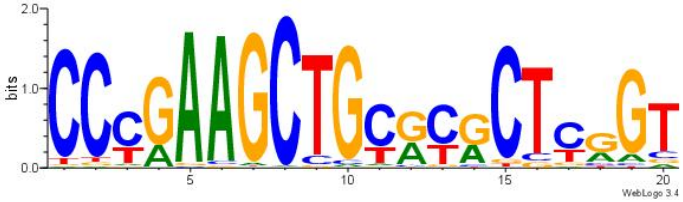

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

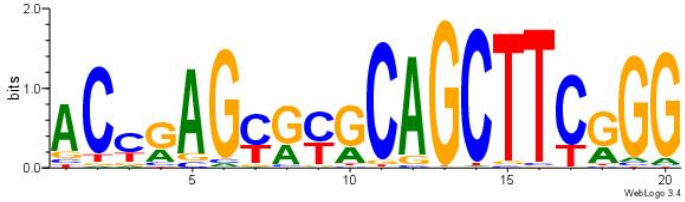

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15684

Alignment:
CTTGCCCAAGGTCACACAGC
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

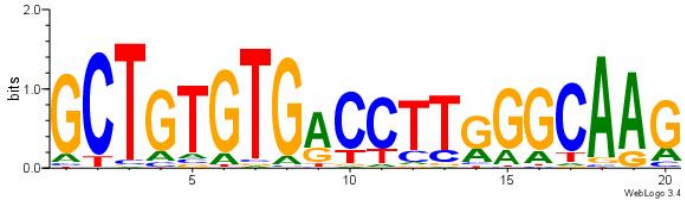

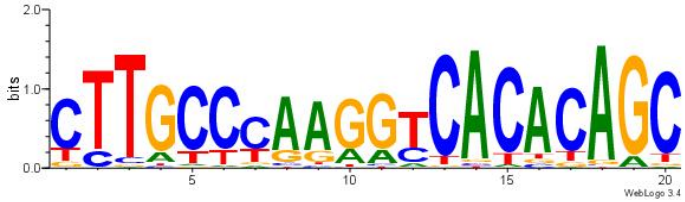

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158208

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

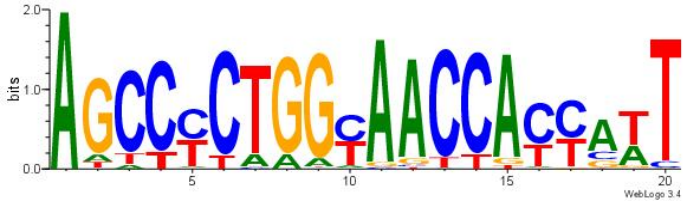

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

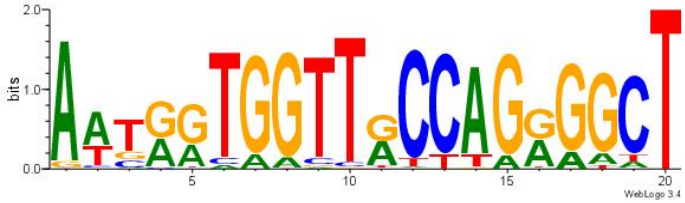

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159092

Alignment:
CCGCTGCACTGTGGGAGCCC
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

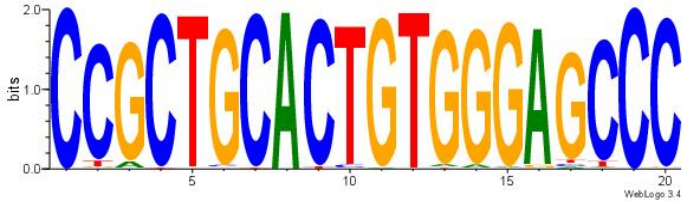

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

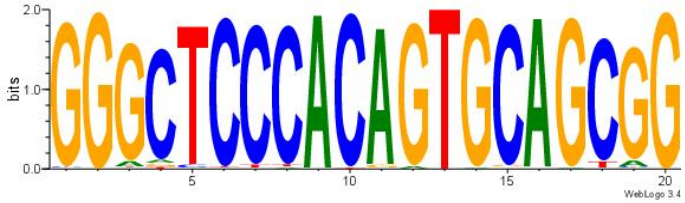

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.159686

Alignment:
ATAGGAATGCTTGTGATTTT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

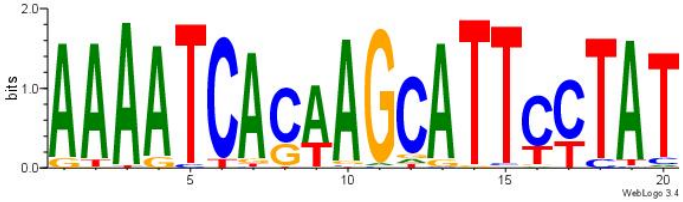

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

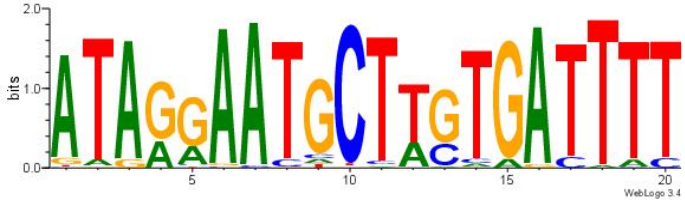

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.162875

Alignment:
TCCCTCCCGGACGGGGYGGC
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

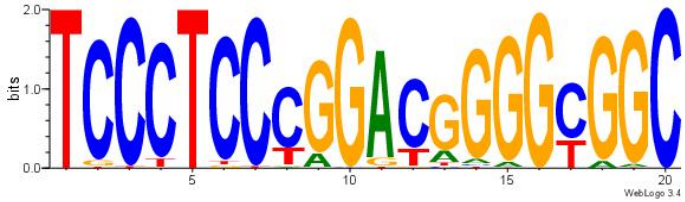

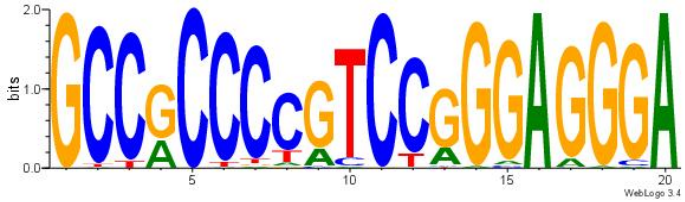

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.164616

Alignment:

```
TAAAAGACTACAWATTGGGT
AGTGACCCGATTTTCCAGGT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

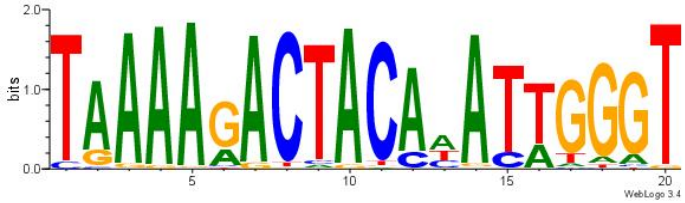

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

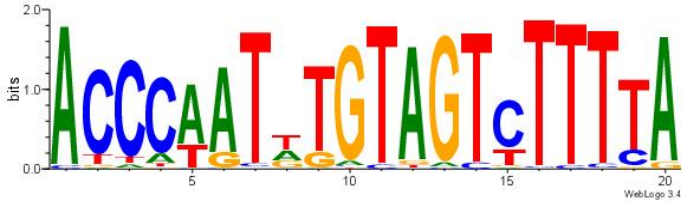

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165209

Alignment:
AGGTCCTTCAGGAGGTATTC
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

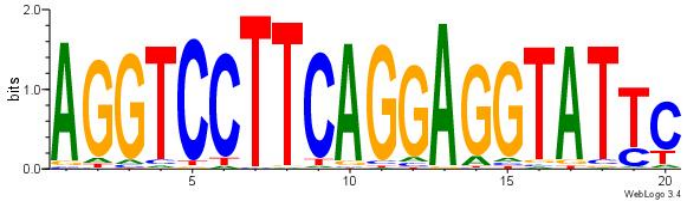

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

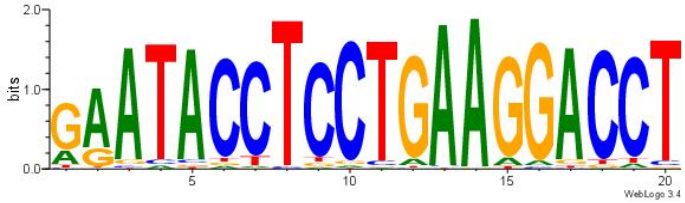

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.165449

Alignment:
ATTGATMKCCAGGGTTGATT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

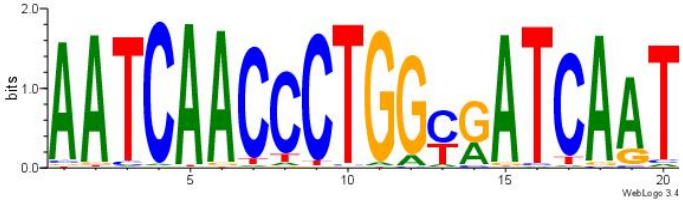

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

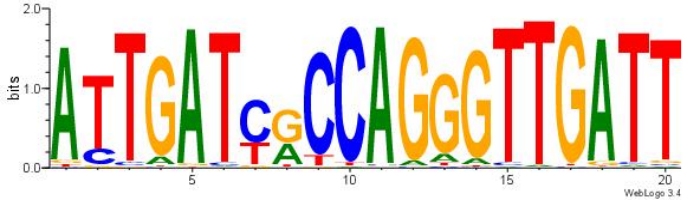

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.165595

Alignment:
AGTAGGTGCTCARTAAATRB
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

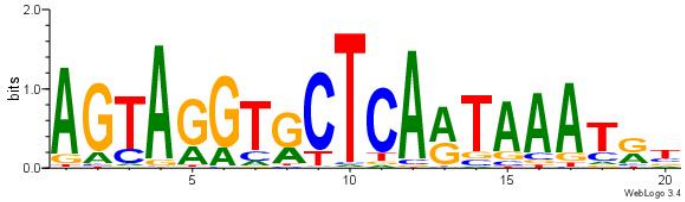

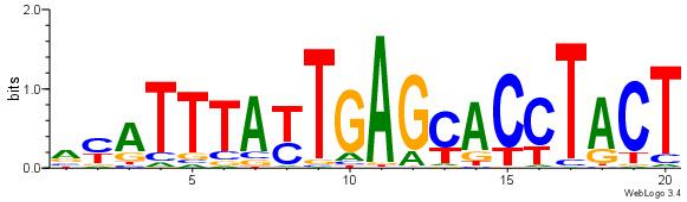

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166073

Alignment:

```
GTTTAACCATTGAGGGCCAG
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

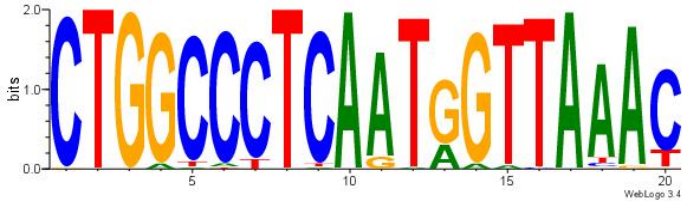

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

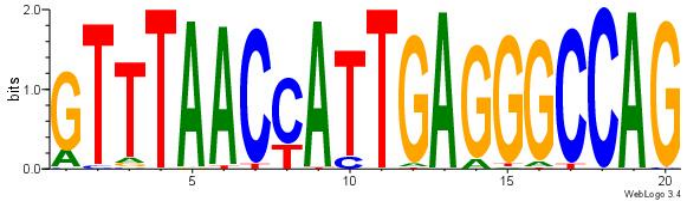

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.166507

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

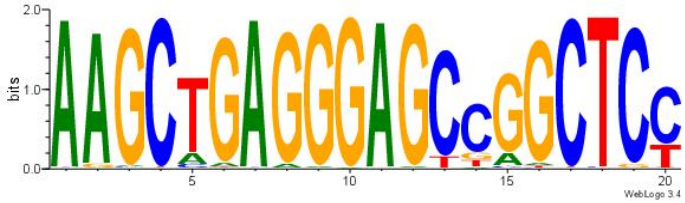

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

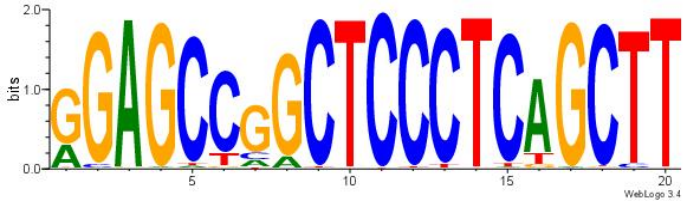

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.167255

Alignment:
GAAGGCAGCTAAGGCCCGGY
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

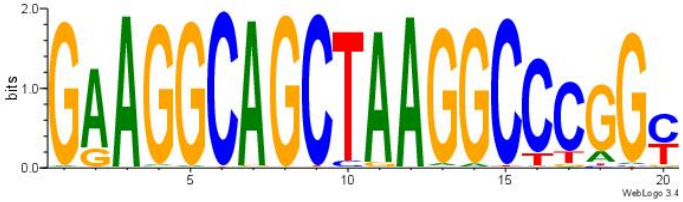

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

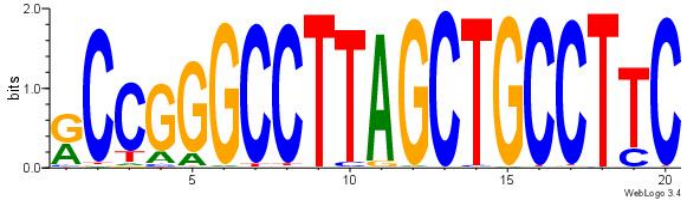

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.167444

Alignment:
ATCRCTTGAGSYCAGGAGKT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

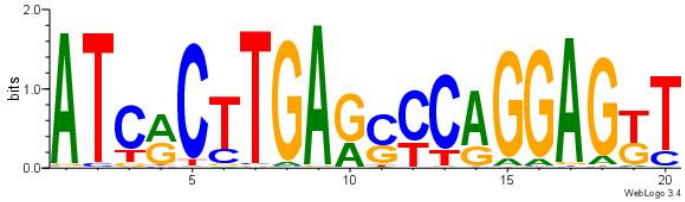

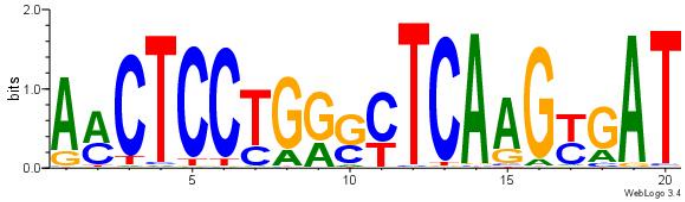

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167576

Alignment:

```
CAGGTGGTKTTTGGTTACAT
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

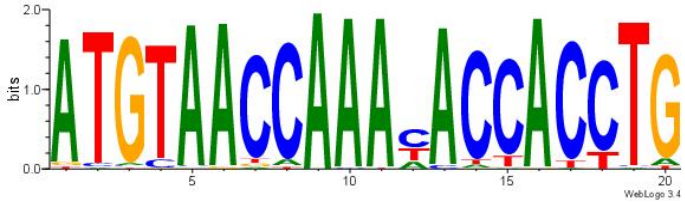

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

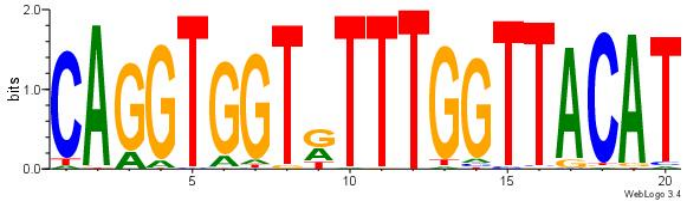

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16774

Alignment:

```
TGGAGAACCTTTATGTCTAG
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

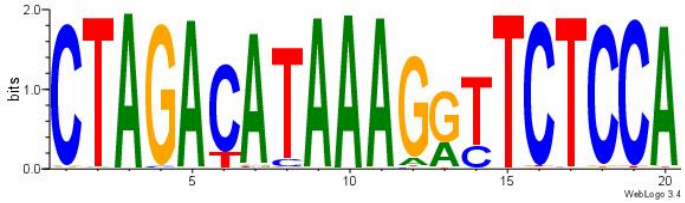

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

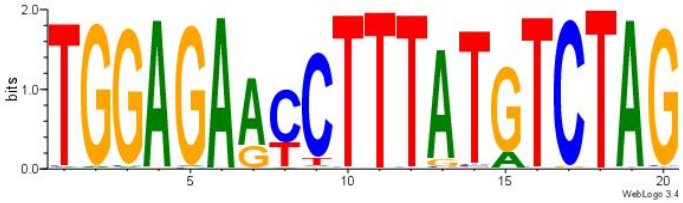

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.167819

Alignment:
GCCTCCTTGAGCTGTGGTGG
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

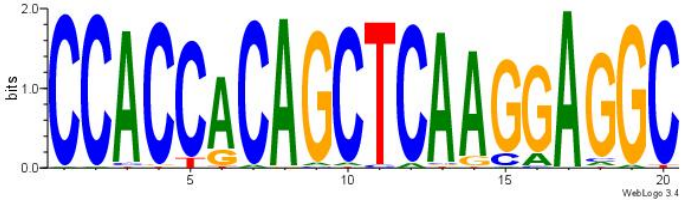

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

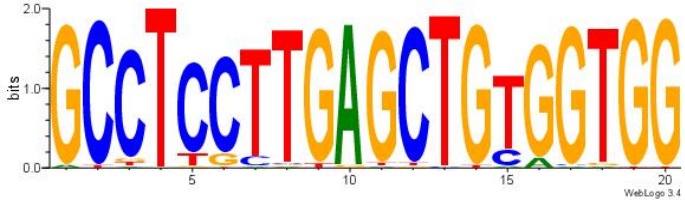

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.168309

Alignment:
GCCTCTCCCTCCACACCTCC
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

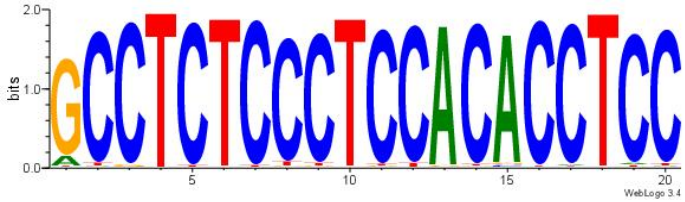

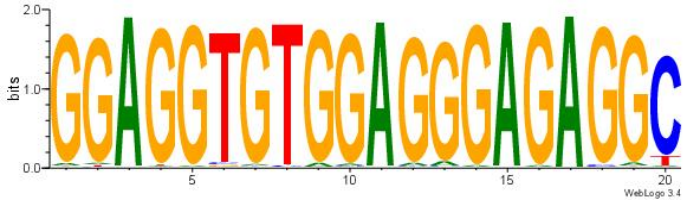

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.169181

Alignment:

```
GTAACACTCACCGCGARGGT
AGTGACCCGATTTTCCAGGT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

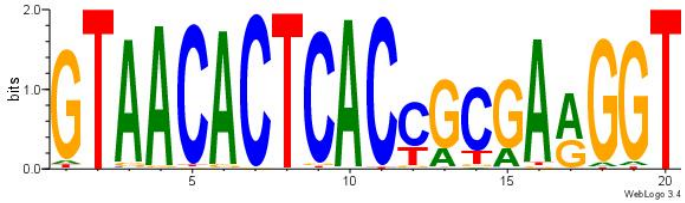

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

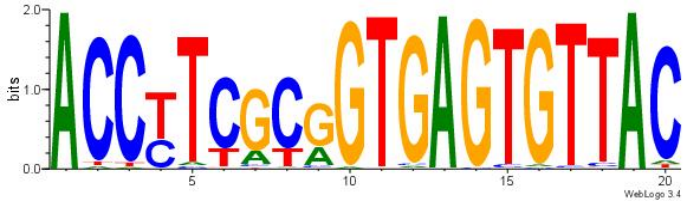

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.169692

Alignment:

```
GAAHCAACCKAAKTGTCCAT
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

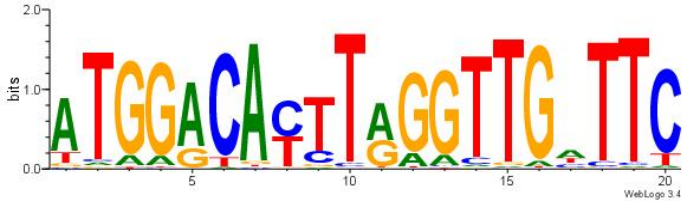

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

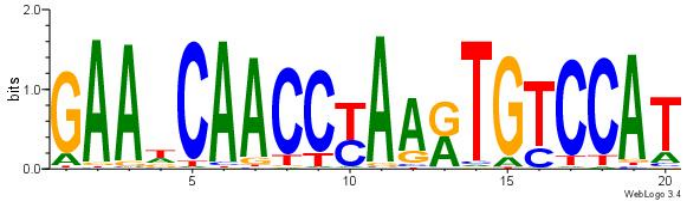

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.169707

Alignment:
GACAGGAGATTAACACTGAG
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

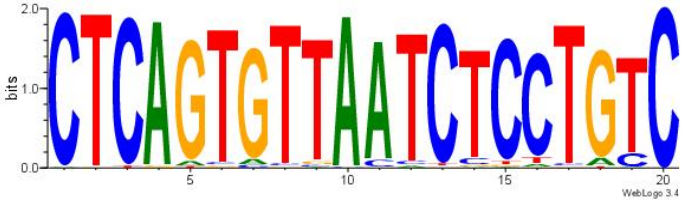

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

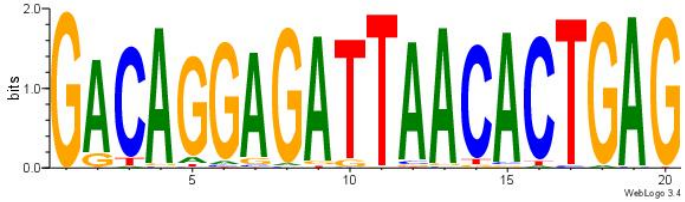

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.170151

Alignment:
TTCAMTCATGATTTGGCTCT
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

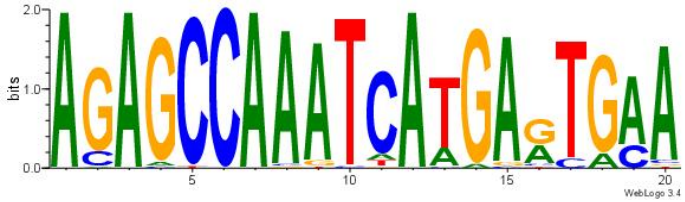

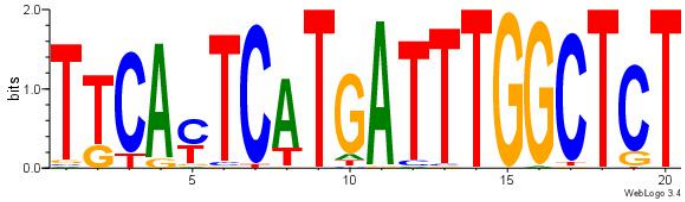

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.170629

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
ACCTGGAAAATCGGGTCACT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

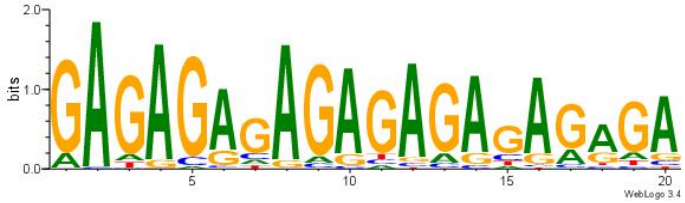

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

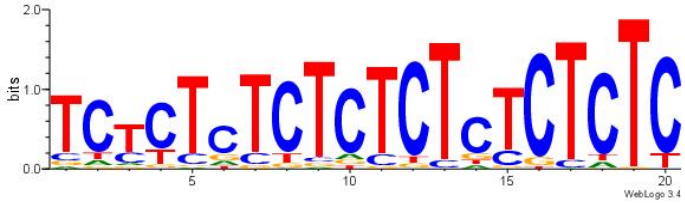

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.170912

Alignment:

GGTTCATCTCACTAGGGAGT
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

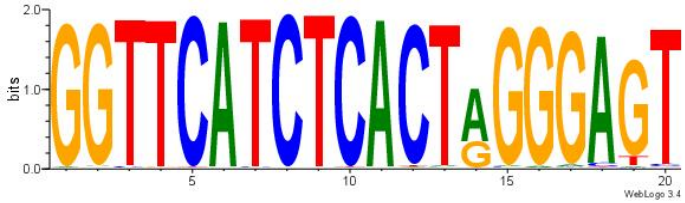

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

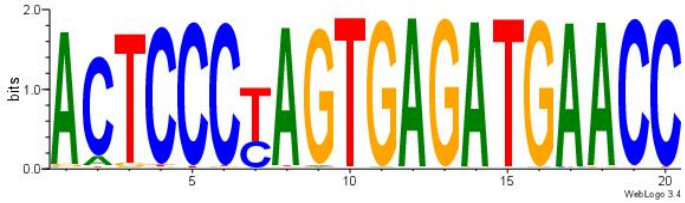

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.171225

Alignment:
CACCAGACTCAGGAGCCCAG
ACCTGGAAAATCGGGTCACT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

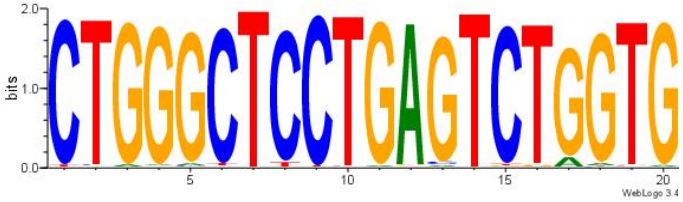

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

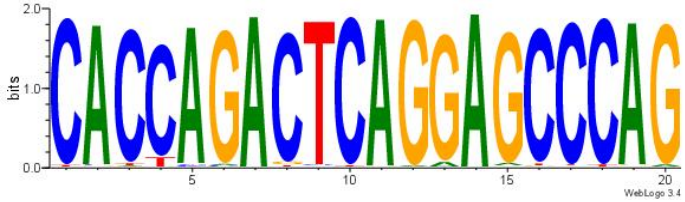

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.171265

Alignment:
CATTCTGGGGTCTGGAGGAY
AGTGACCCGATTTTCCAGGT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

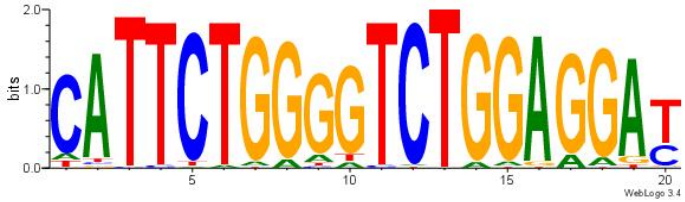

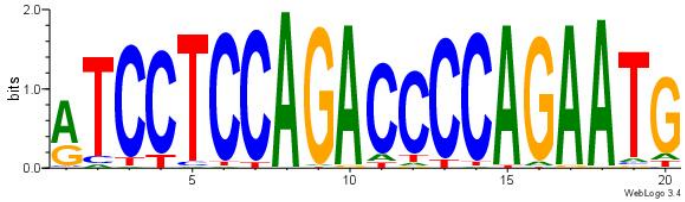

Dataset #: 1 Motif ID: 15 Motif name: Motif 15

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

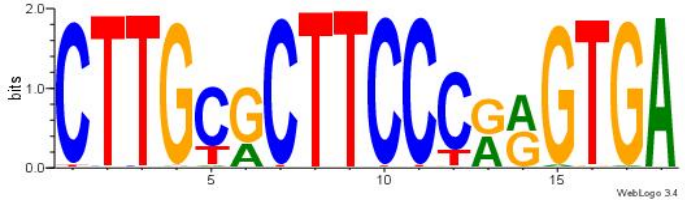

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

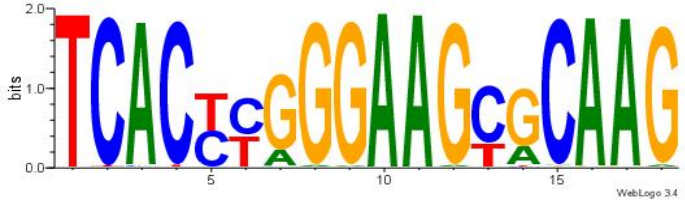

Best Matches for Motif ID 15 (Highest to Lowest)

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.112624

Alignment:

TCTGGAGTGGACCTCCAGCA
TCACKMGGGAAGCGCAAG--

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

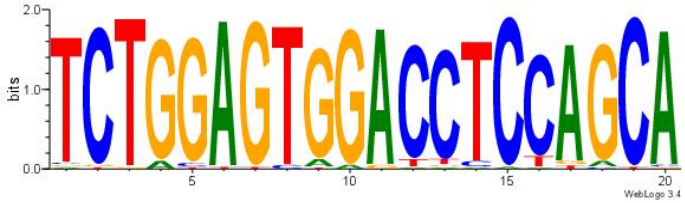

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

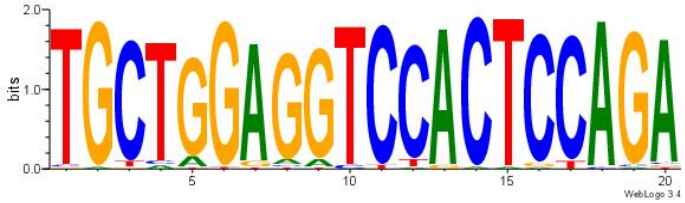

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.117199

Alignment:
GCGMGCGGGAACCGGGGCT
TCACKMGGGAAGCGCAAG-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

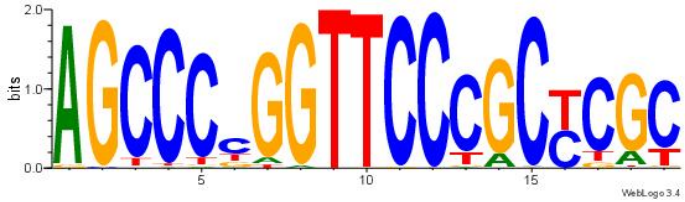

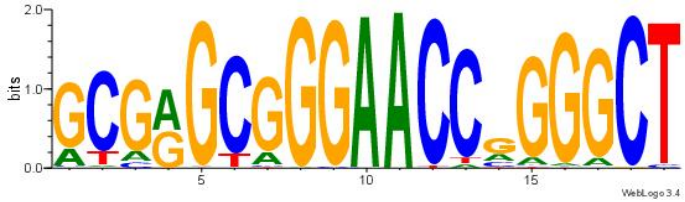

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.117616

Alignment:

```
CAAGCCTSKGCAATGGCAGG
--TCACKMGGGAAGCGCAAG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

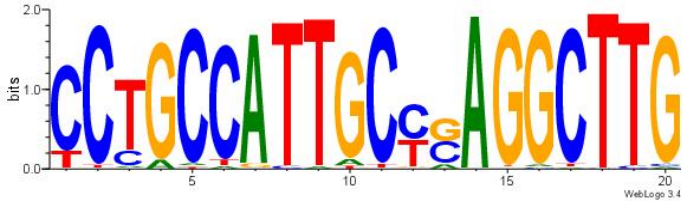

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

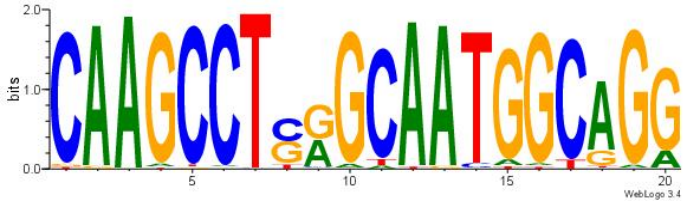

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.117943

Alignment:

```
CTTGGGTGGTCGATGGGAC
CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

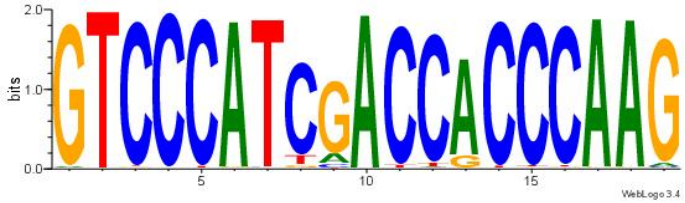

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

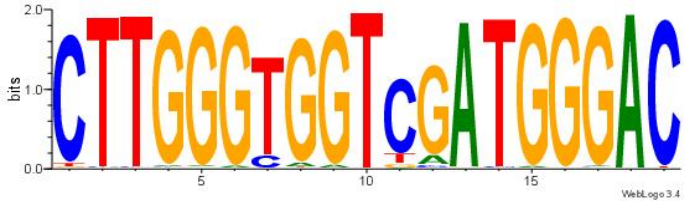

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.118862

Alignment:
CTGGCCCTCAATGGTTAAAC
CTTGCGCTTCCCRRGTGA--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

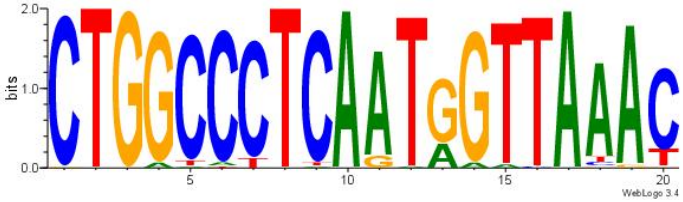

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

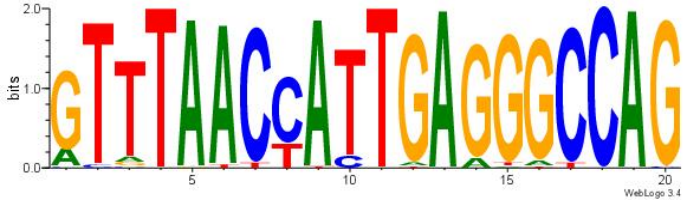

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.120831

Alignment:
GGTGCCCCTCTGGGACRAA
CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

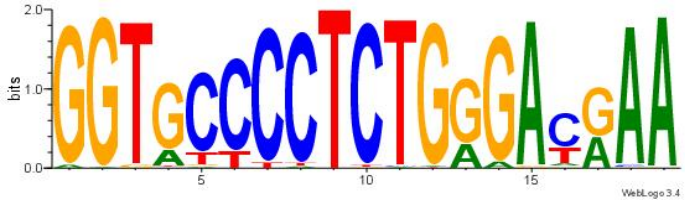

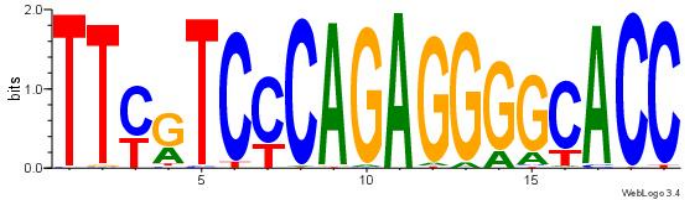

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.121019

Alignment:

```
GACTGGCAGGCAGCTCCACC
-TCACKMGGGAAGCGCAAG-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

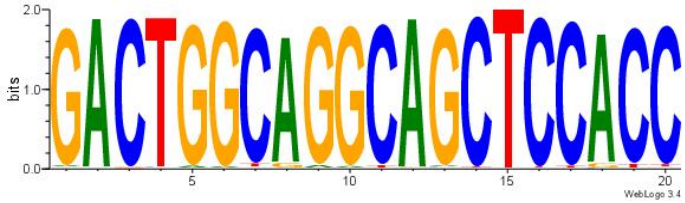

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

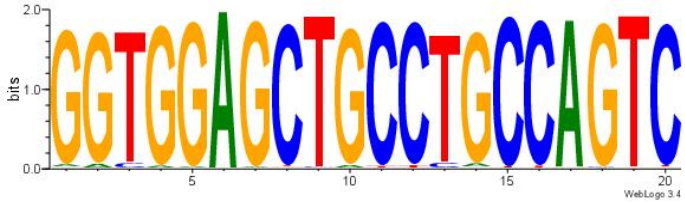

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.121298

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

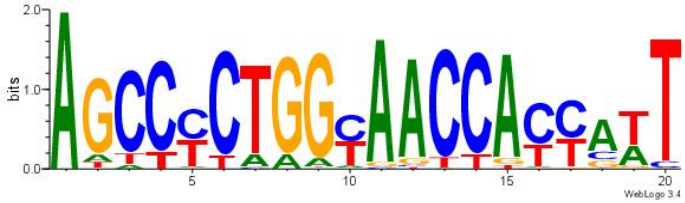

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

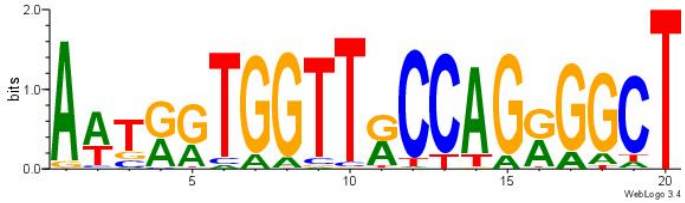

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.121474

Alignment:
HAGTGGKATTGCTGGATCAT
-CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

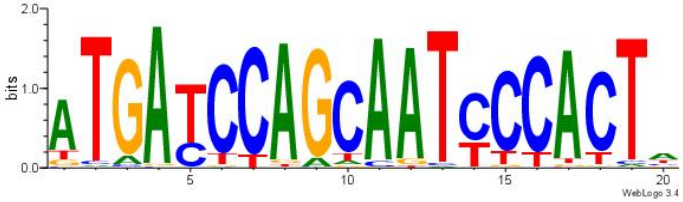

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

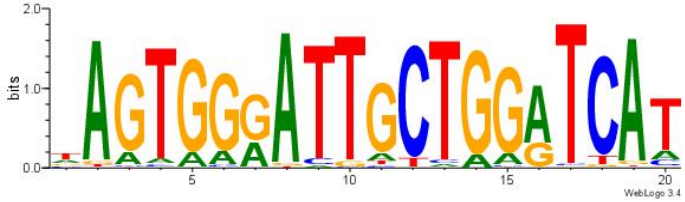

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.121518

Alignment:
ATTGATMKCCAGGGTTGATT
CTTGCGCTTCCCRRGTGA--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

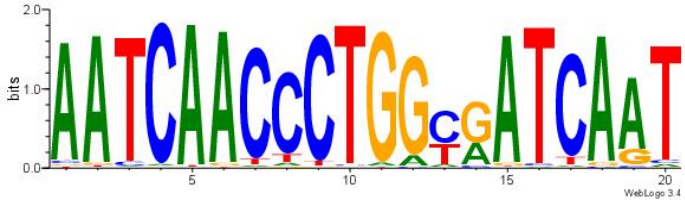

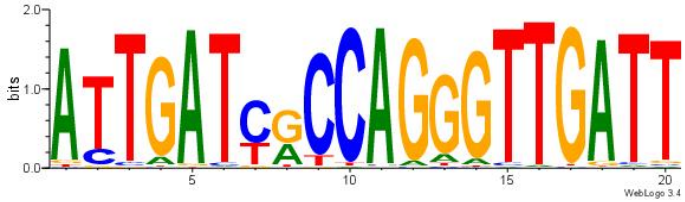

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.121873

Alignment:

```
ACTCCCTAGTGAGATGAACC
--TCACKMGGGAAGCGCAAG
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

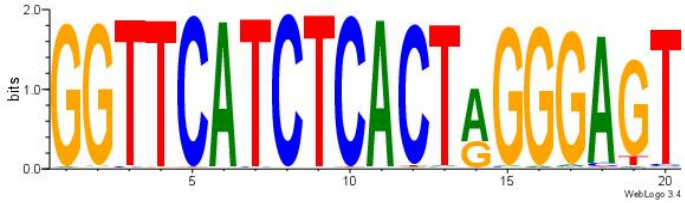

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

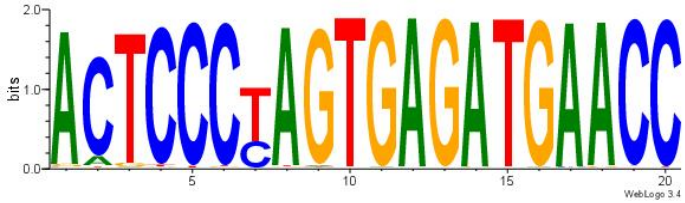

Dataset #: 1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.122455

Alignment:
CATTAGATTCTCATAGGA
CTTGCGCTTCCCRRGTGA

Original motif Consensus sequence: CATTAGATTCTCATAGGA

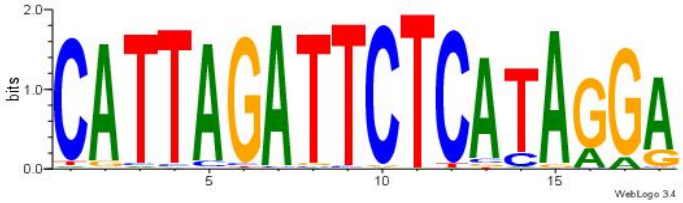

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

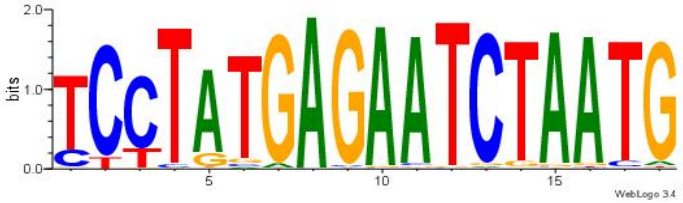

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.123289

Alignment:
AGCTCMKCCTCCTGTCAGAT
-CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

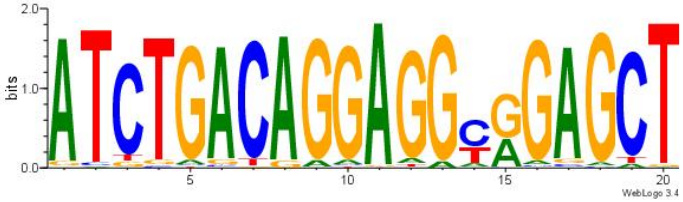

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

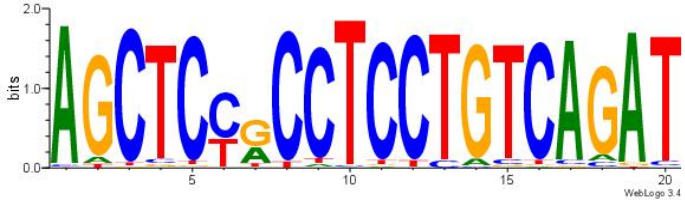

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.12333

Alignment:
CCTTGGCCAGCCCAGAAAG
-CTTGCGCTTCCCRRGTGA

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

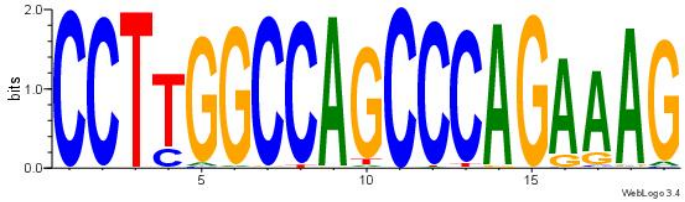

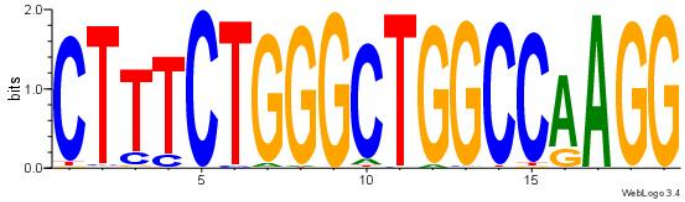

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.129801

Alignment:

```
CATTTGGGAGCCCATTGA
CTTGCGCTTCCCRRGTGA
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

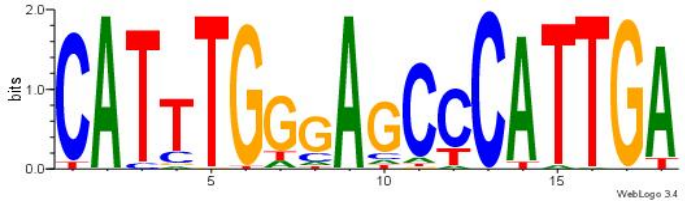

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

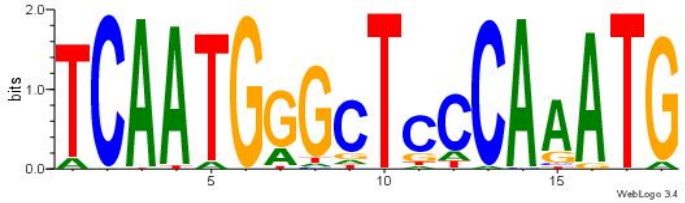

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.130529

Alignment:

```
GTTGTGAGGATTAAATGAG
CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

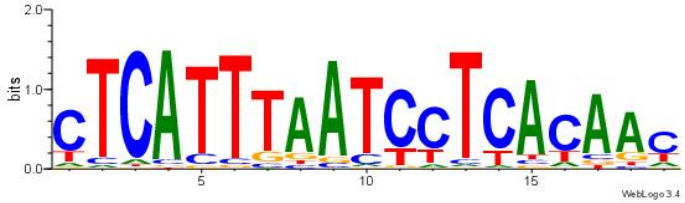

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

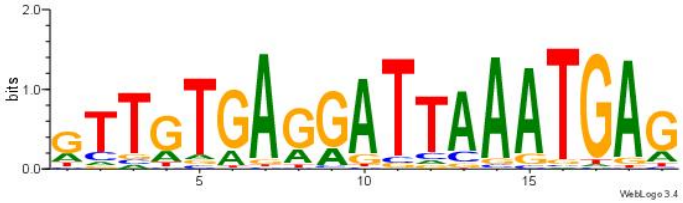

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.130803

Alignment:
CCCTGCTAGAACCTCCAA
TCACKMGGGAAGCGCAAG

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

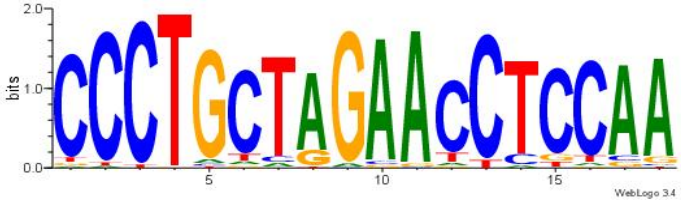

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

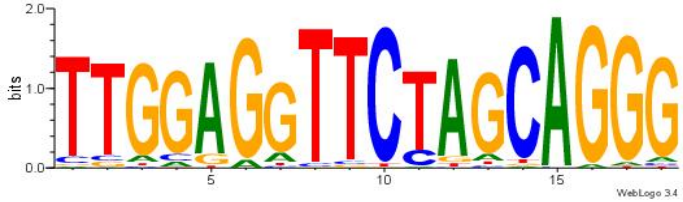

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.131135

Alignment:
CCCATGCAAGTCYRAAATCC
--CTTGCGCTTCCCRRGTGA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

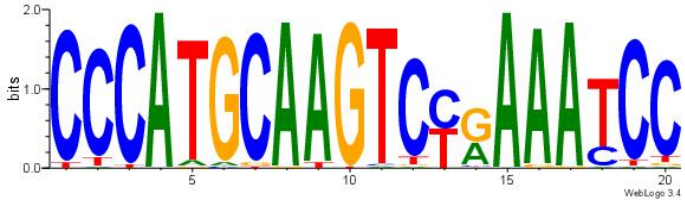

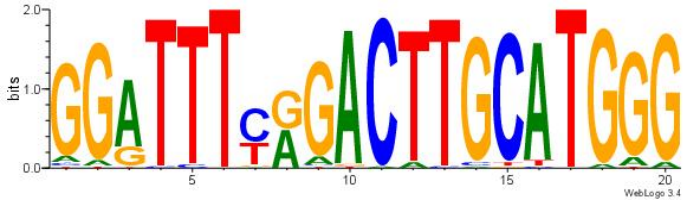

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.131268

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

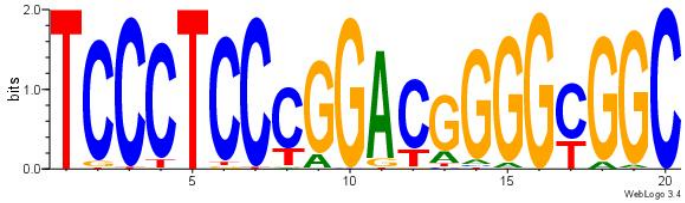

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

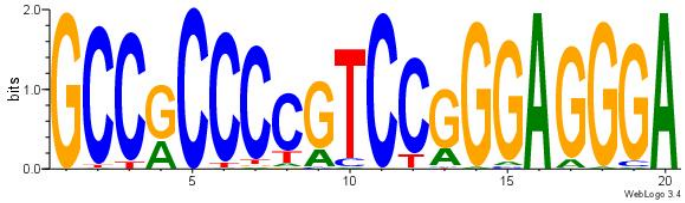

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.131489

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
-TCACKMGGGAAGCGCAAG-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

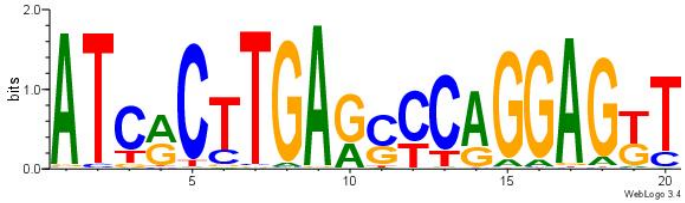

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

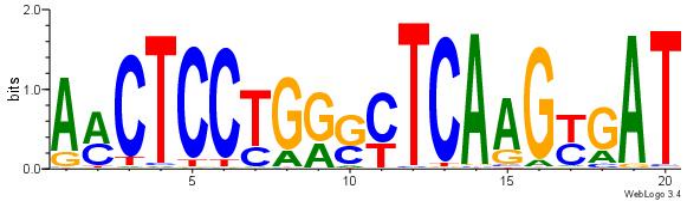

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.131715

Alignment:
AGGACTGAGGGTGCCYRGGG
-TCACKMGGGAAGCGCAAG-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

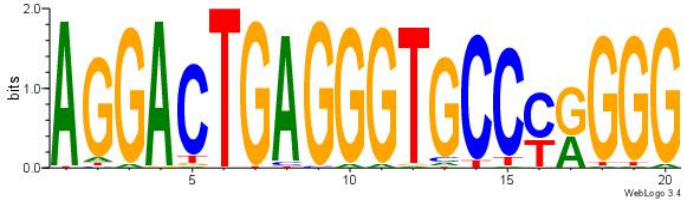

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

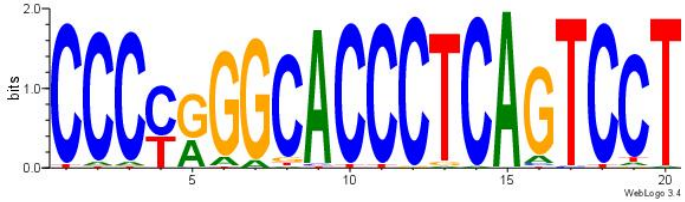

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.131786

Alignment:
GGAGGTGTGGAGGGAGAGGC
TCACKMGGGAAGCGCAAG--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

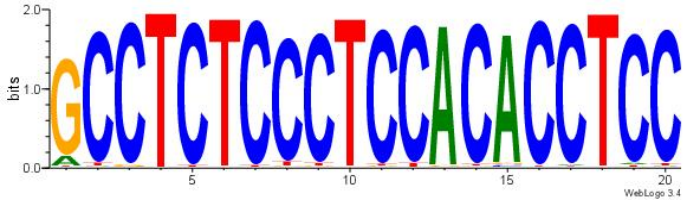

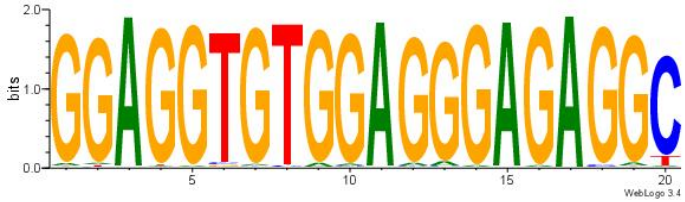

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.13383

Alignment:

```
GTAACACTCACCGCGARGGT
CTTGCGCTTCCCRRGTGA--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

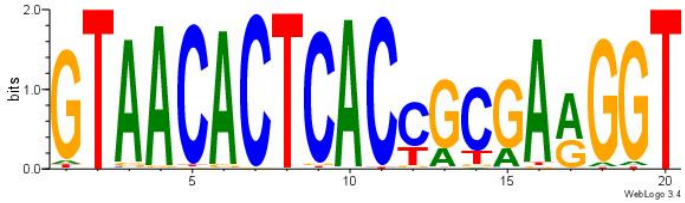

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

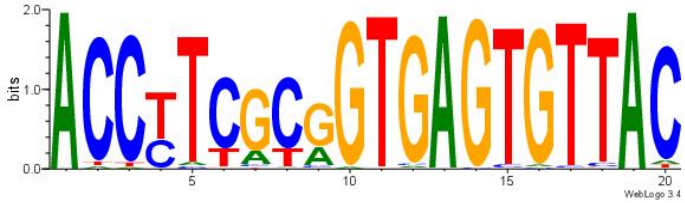

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.134357

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

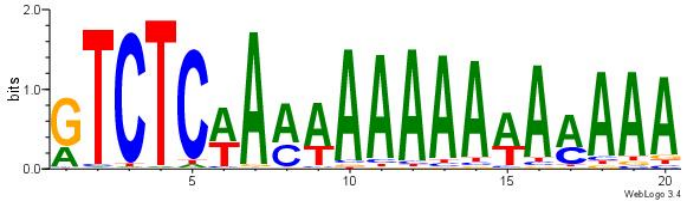

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

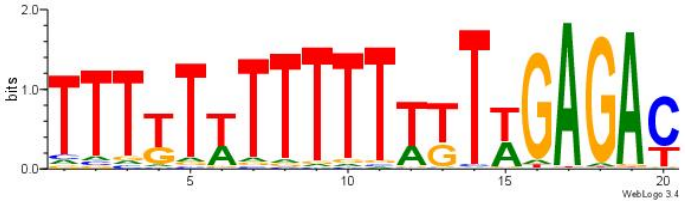

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.135727

Alignment:
AGCTCCCAGCGTGAGCGACG
-TCACKMGGGAAGCGCAAG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

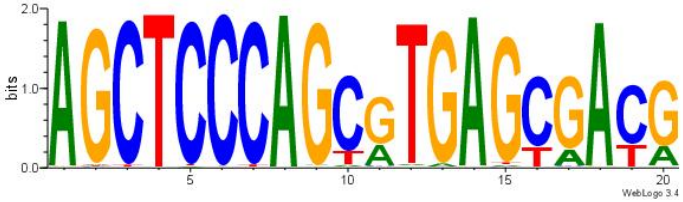

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

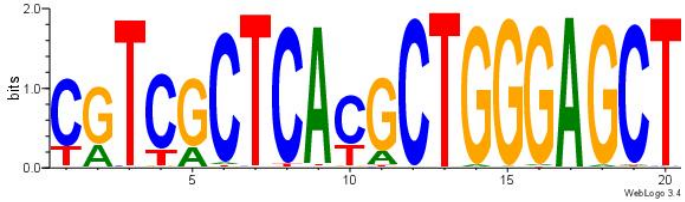

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.135804

Alignment:
MGTCTMKCTCTGTKGCCCAG
--TCACKMGGGAAGCGCAAG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

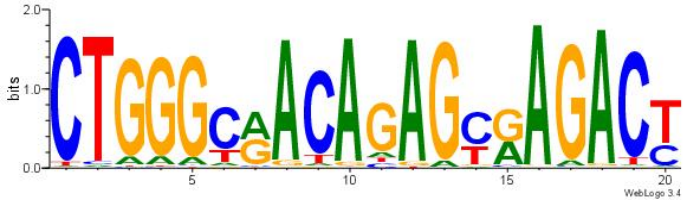

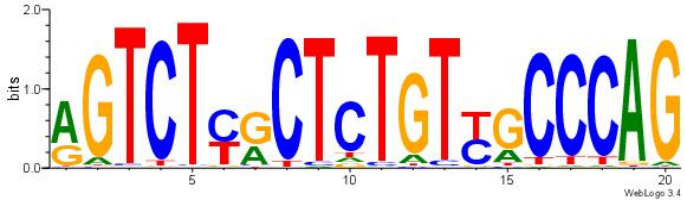

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.136072

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
TCACKMGGGAAGCGCAAG--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

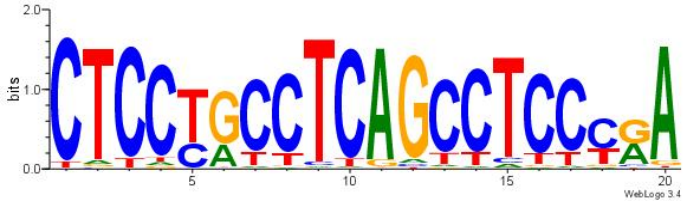

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

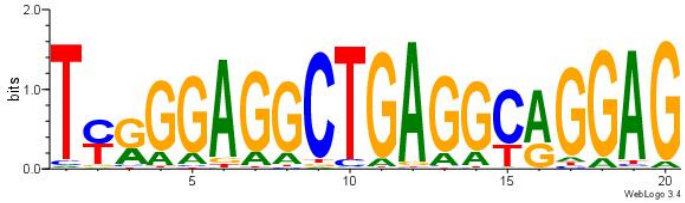

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.13639

Alignment:

```
TCCAAATGGGAGAAATTGGC
TCACKMGGGAAGCGCAAG--
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

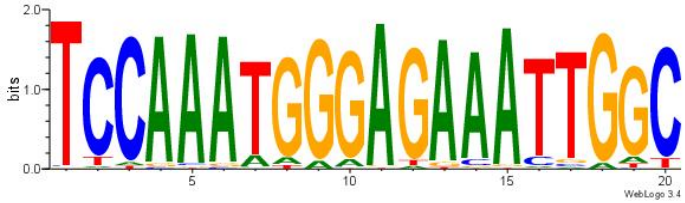

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

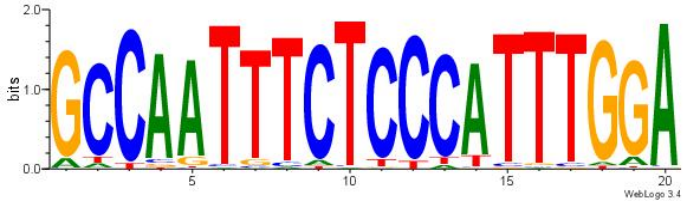

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.136413

Alignment:
AGGTTTGTTACATAGGTAWA
-CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

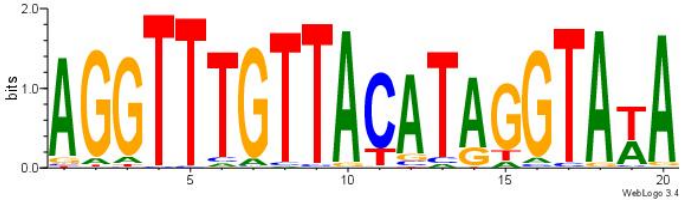

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

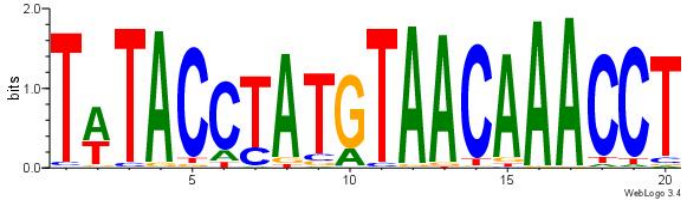

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.136433

Alignment:
AAATTACCCAGTCTCAGGTA
--CTTGCGCTTCCCRRGTGA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

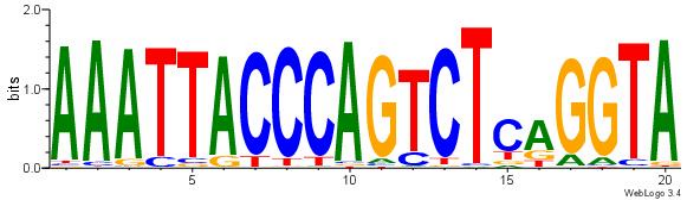

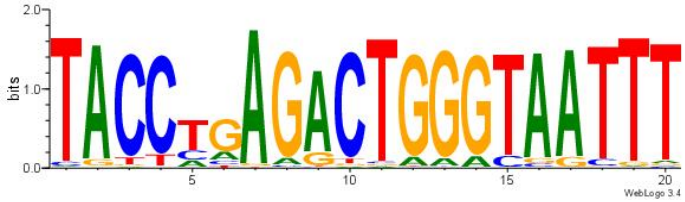

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.136445

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-TCACKMGGGAAGCGCAAG-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

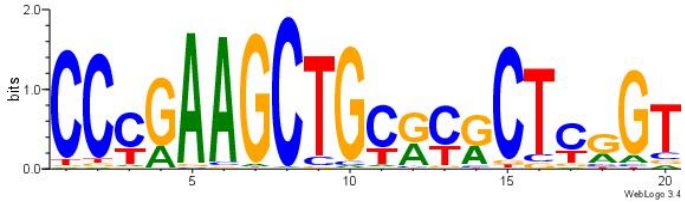

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

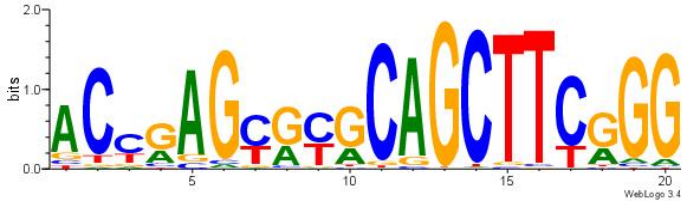

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.136488

Alignment:

```
ACAGGCTGTCCCAGGATTC
-CTTGCGCTTCCCRRGTGA
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

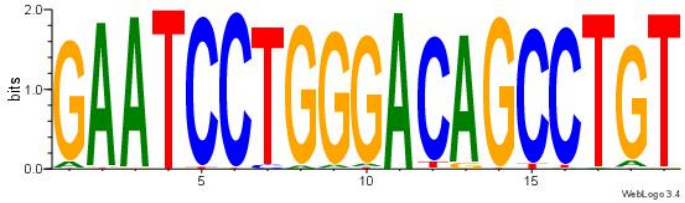

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

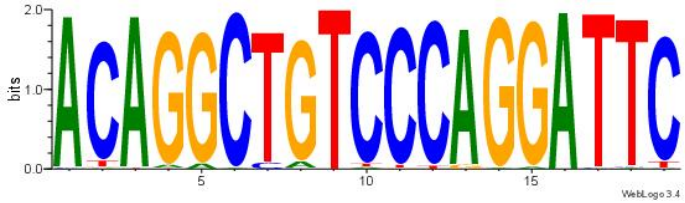

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.13657

Alignment:
CATTTCCAWCTGAGGTAC
CTTGCGCTTCCCRRGTGA

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

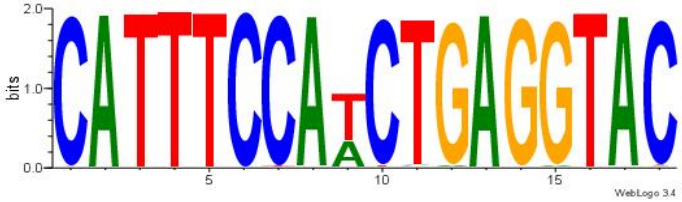

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

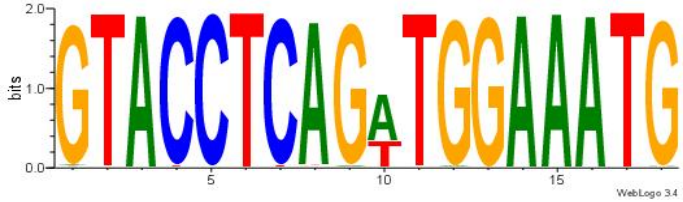

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.136629

Alignment:
ATACAATGGGGGTACAGRC
TCACKMGGGAAGCGCAAG-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

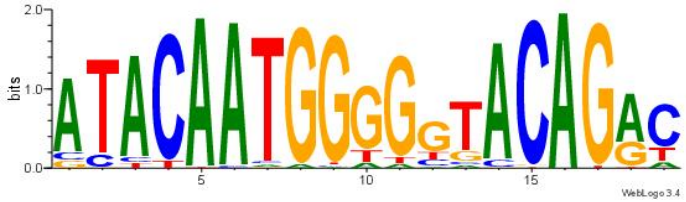

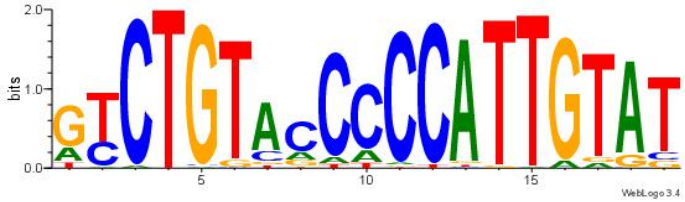

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.137284

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

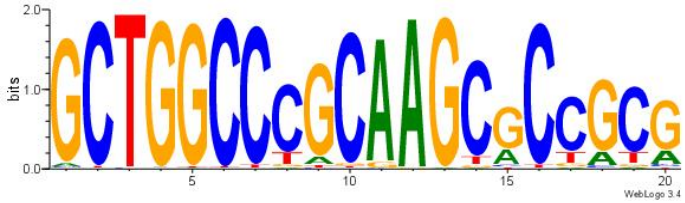

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

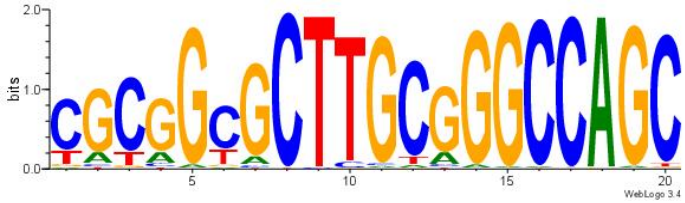

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.137702

Alignment:
GCCGGGRAGAGGCGCTCCT
TCACKMGGGAAGCGCAAG-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

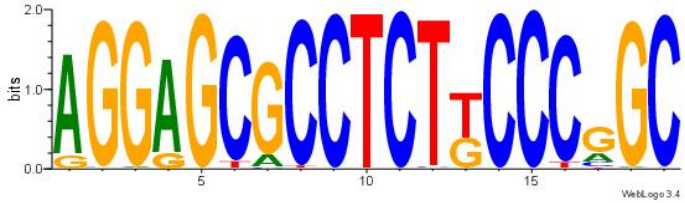

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

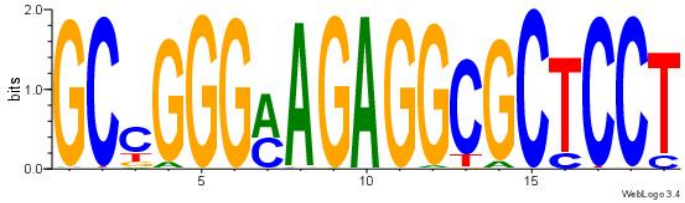

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.138034

Alignment:
TYTGTCMTTTTGTGACTGGC
-CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

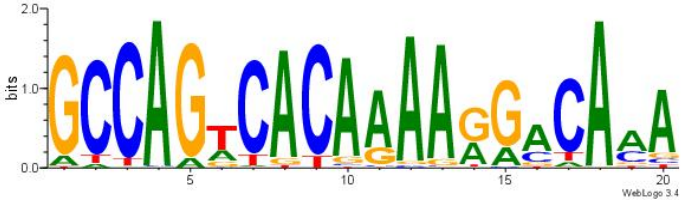

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

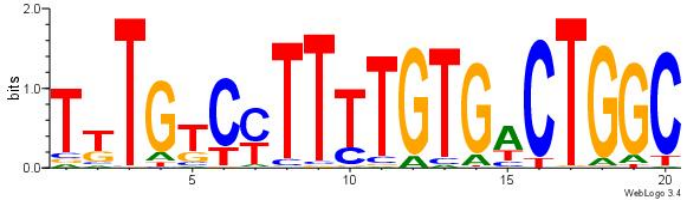

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.138333

Alignment:
CAACATGGATGRARCTGGAG
--TCACKMGGGAAGCGCAAG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

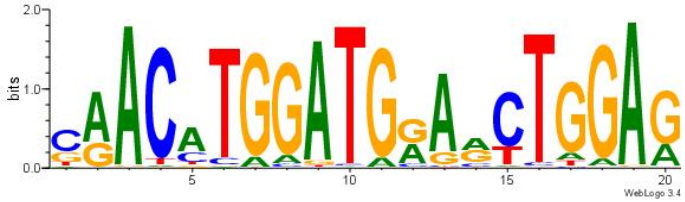

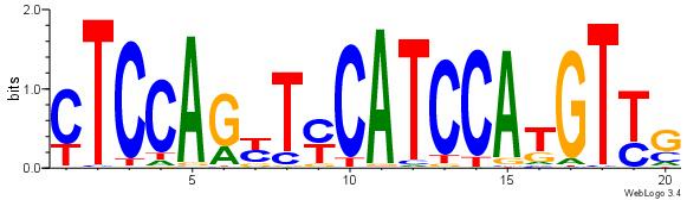

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.13857

Alignment:

```
AAGTTCTKGGKTACATGTGC
--CTTGCGCTTCCCRRGTGA
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

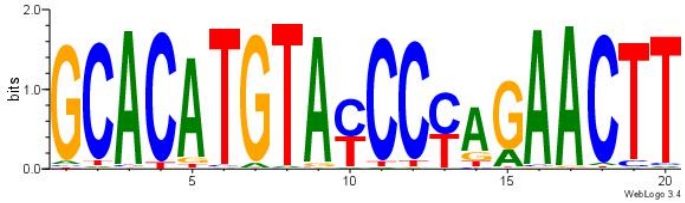

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

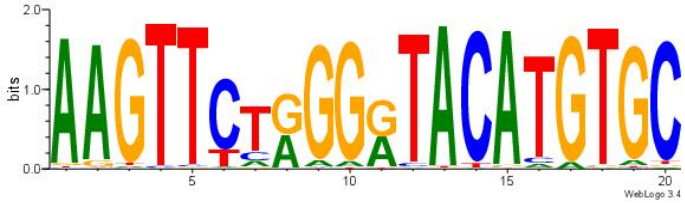

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.138901

Alignment:

```
GCTGTGTGACCTTGGGCAAG
CTTGCGCTTCCCRRGTGA--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

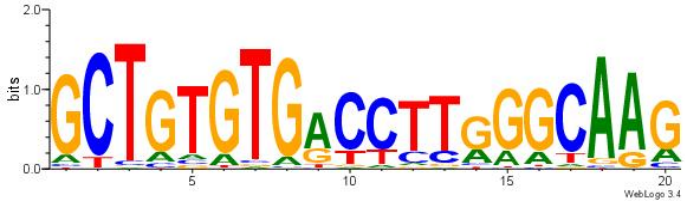

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

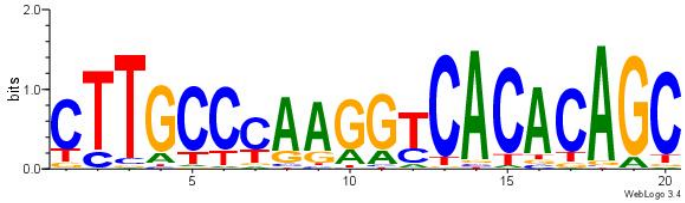

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.139227

Alignment:
CCTAGATTTCAGARGATGT
CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

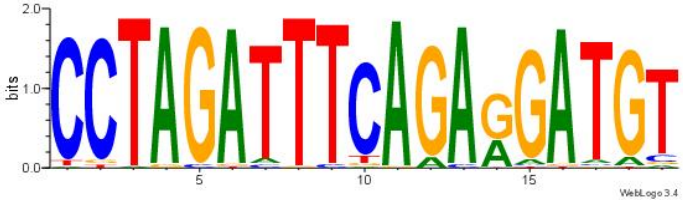

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

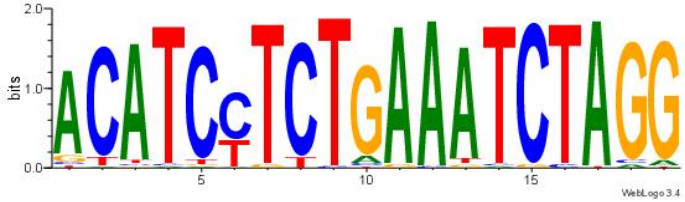

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.140094

Alignment:
CTGACTGGGAGACACCTCCC
-TCACKMGGGAAGCGCAAG-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

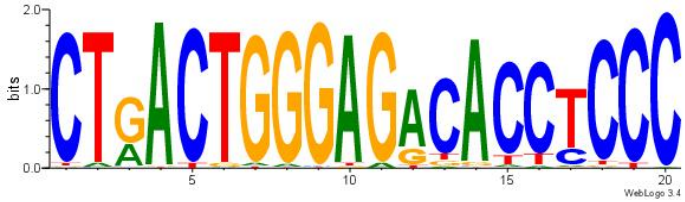

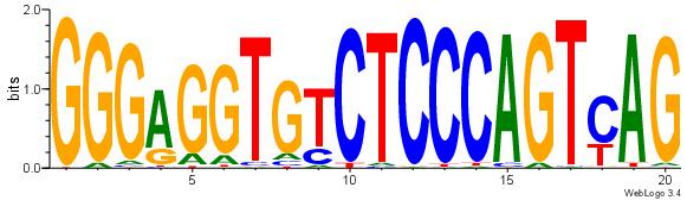

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.140664

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CTTGCGCTTCCCRRGTGA--
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

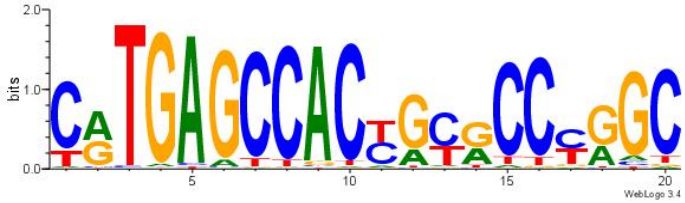

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

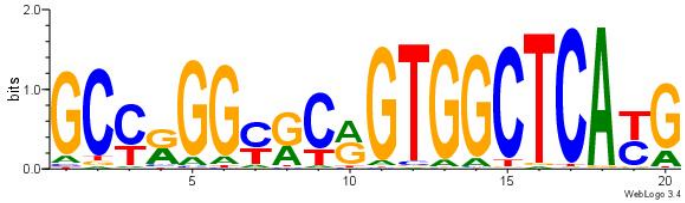

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.140681

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

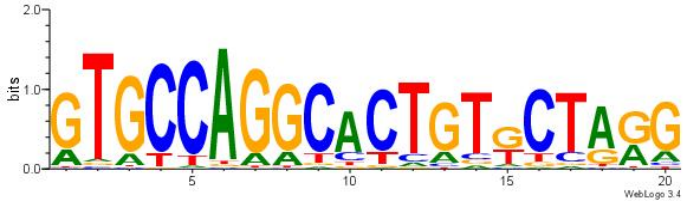

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

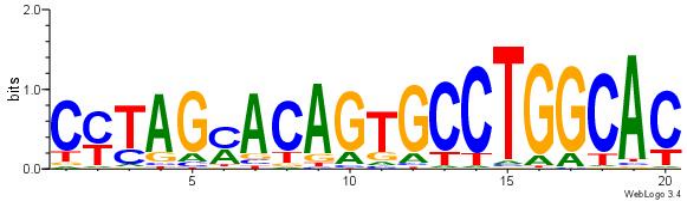

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.142067

Alignment:
AGAGCCAAATCATGARTGAA
-CTTGCGCTTCCCRRGTGA-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

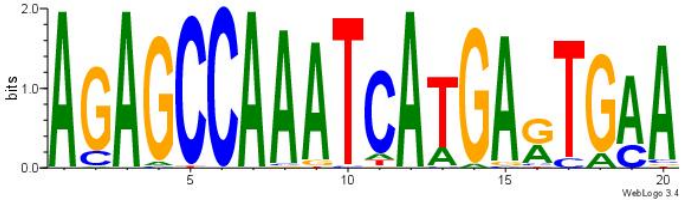

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

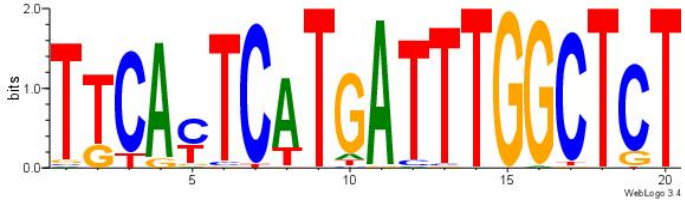

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.142992

Alignment:
GGCACTGCTGGGGGACCCAG
--TCACKMGGGAAGCGCAAG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

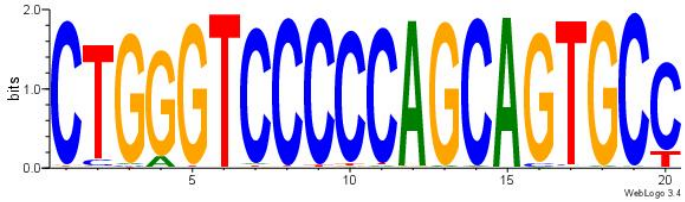

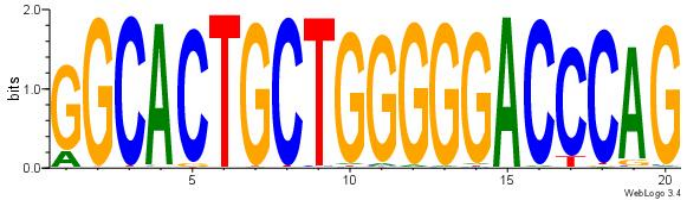

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.143995

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

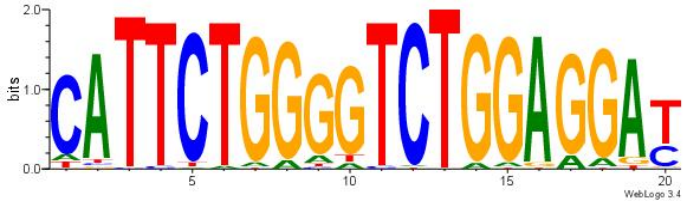

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

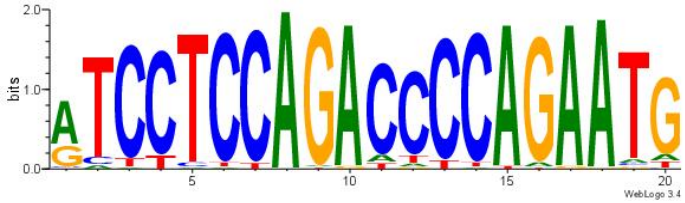

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.144022

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-CTTGCGCTTCCCRRGTGA-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

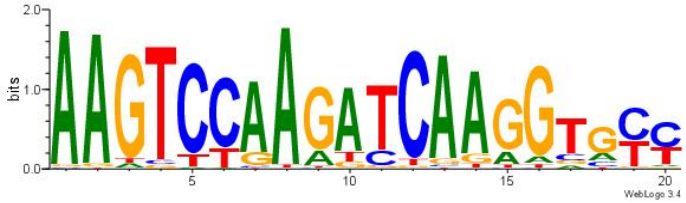

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

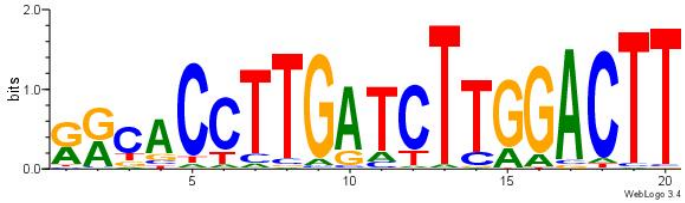

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.144268

Alignment:
CACCAGGAGATTATATCCCR
--TCACKMGGGAAGCGCAAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

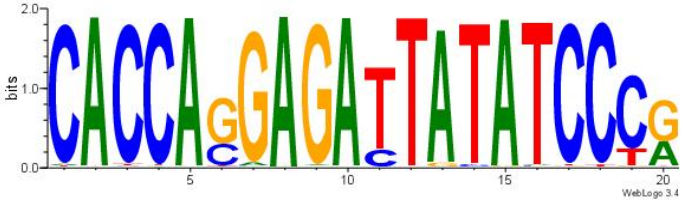

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

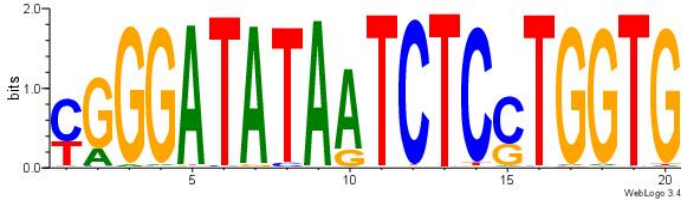

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.144293

Alignment:
AGTAGGTGCTCARTAAATRB
--CTTGCGCTTCCCRRGTGA

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

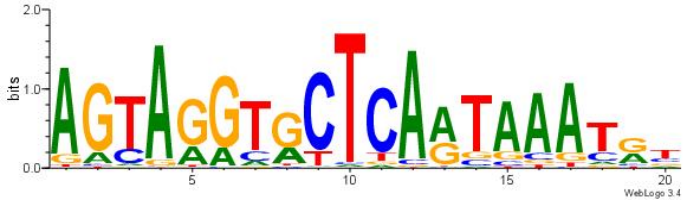

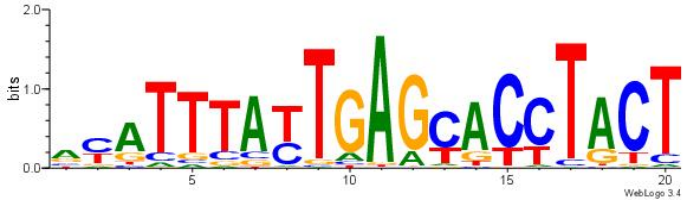

Dataset #: 1 **Motif ID: 16** **Motif name: Motif 16**

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

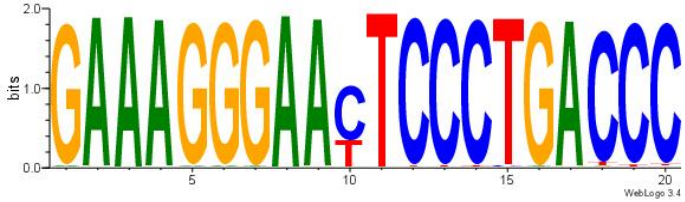

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

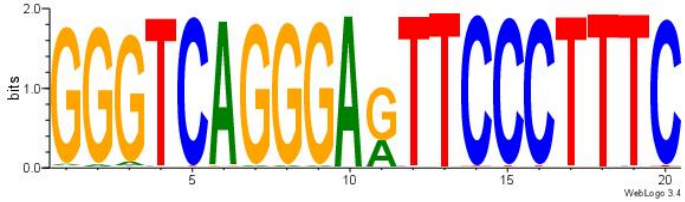

Best Matches for Motif ID 16 (Highest to Lowest)

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122102

Alignment:

CTGACTGGGAGACACCTCCC
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

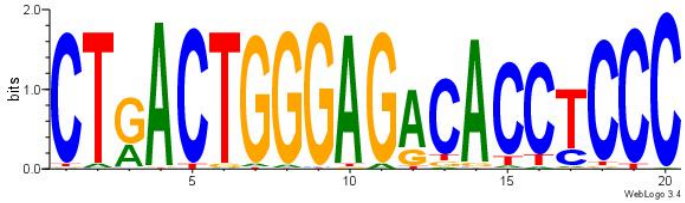

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

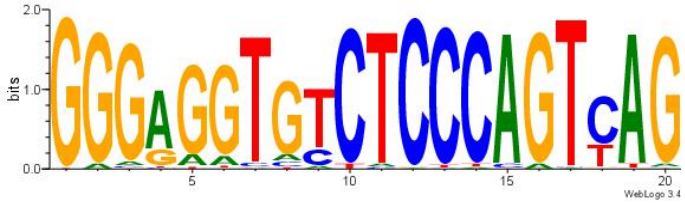

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12749

Alignment:
CCCATGCAAGTCYRAAATCC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

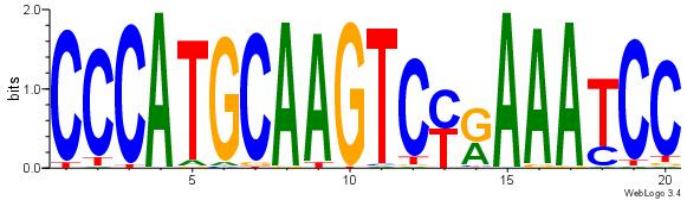

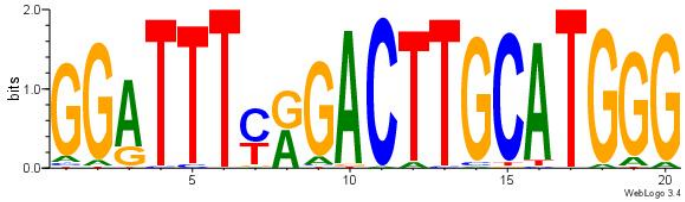

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129322

Alignment:
CMTAGYACAGTGCCTGGCAC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

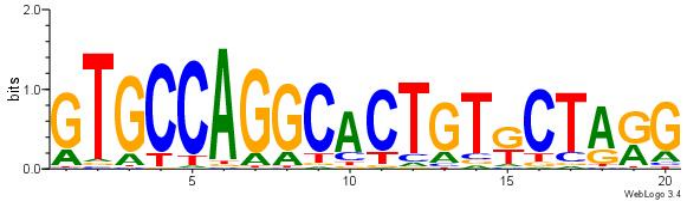

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

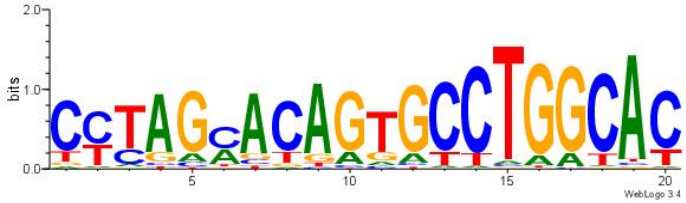

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129551

Alignment:

```
CCCMKGGCACCCTCAGTCCT
GAAAGGGAACTCCCTGACCC
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

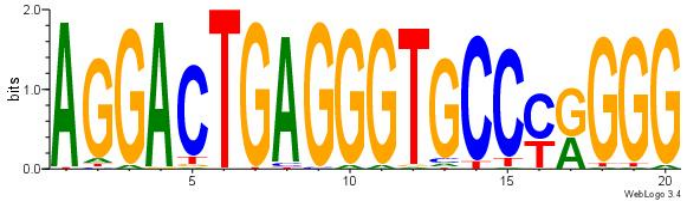

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

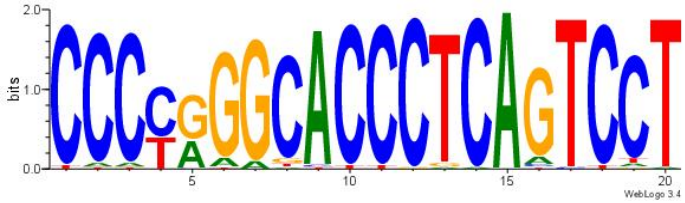

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.133875

Alignment:
GGTGGAGCTGCCTGCCAGTC
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

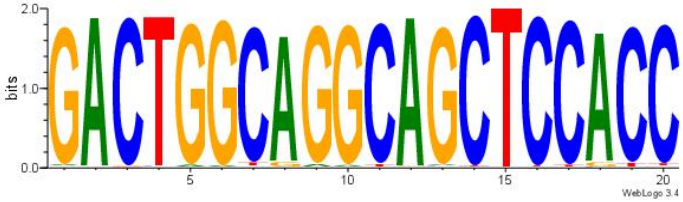

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

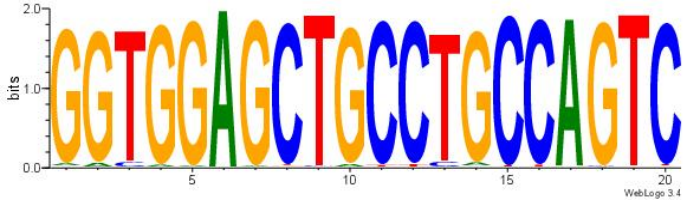

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136217

Alignment:
GTGTCKGGAGTTTGTTCCTT
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

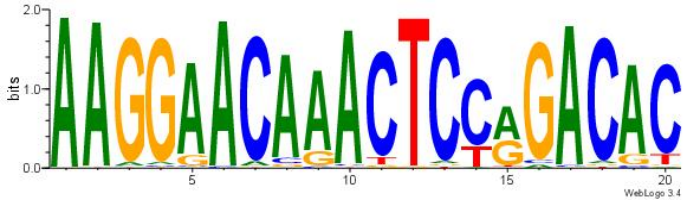

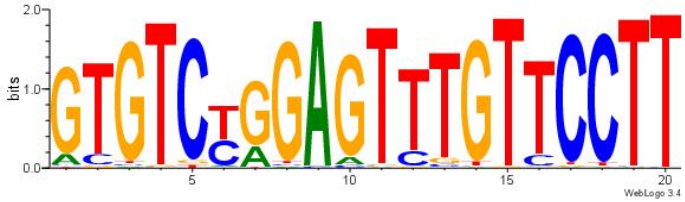

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136751

Alignment:

```
AAGTTCTKGGKTACATGTGC
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

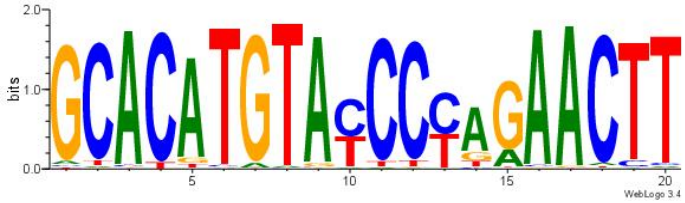

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

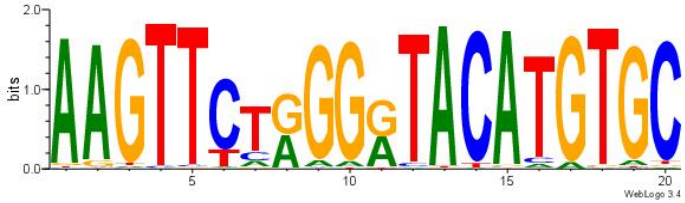

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141038

Alignment:

```
GCTCCACCCAGTTCGAGCTT
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

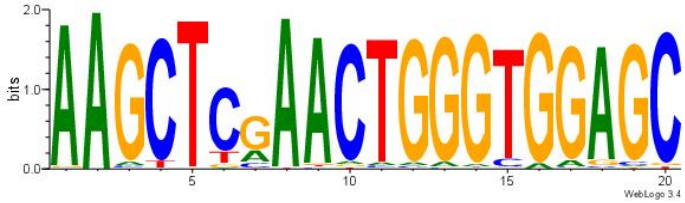

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

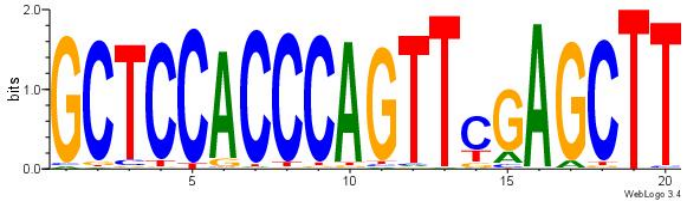

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144994

Alignment:
GACAGGAGATTAACACTGAG
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

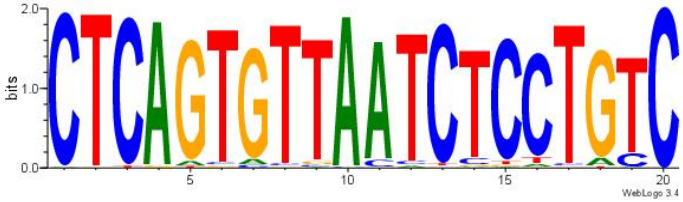

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

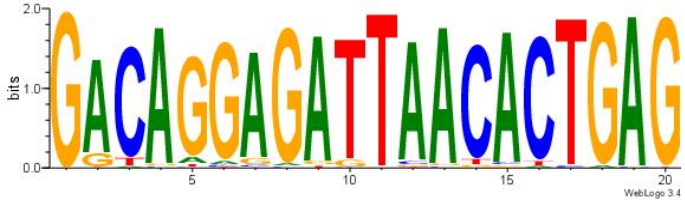

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145164

Alignment:
GAATACCTCCTGAAGGACCT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

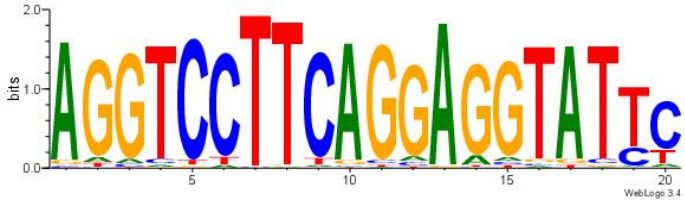

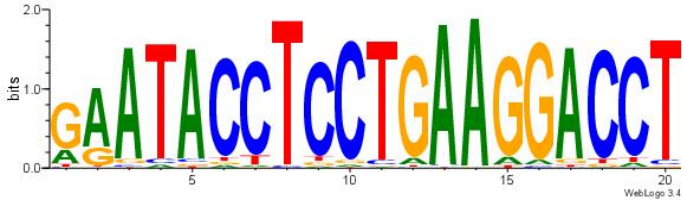

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146411

Alignment:

```
ATTGGTGTATTTACAATCCC
GAAAGGGAACTCCCTGACCC
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

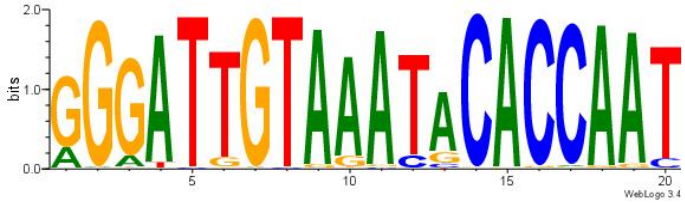

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148261

Alignment:

```
TWTACCTATGTAACAAACCT
GAAAGGGAACTCCCTGACCC
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

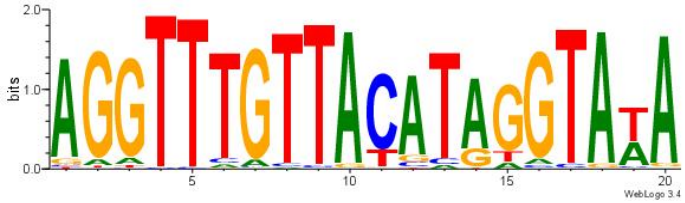

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

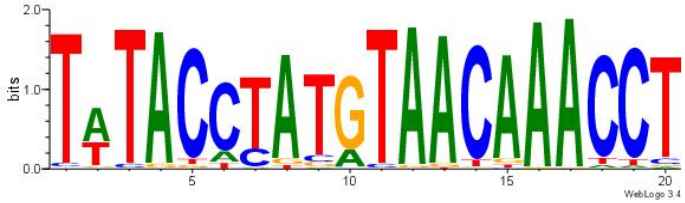

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148498

Alignment:
AAAAGTCCACAGTCCAAAGT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

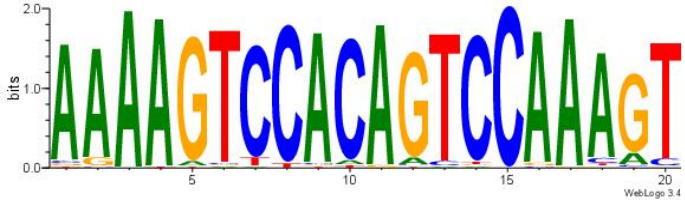

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

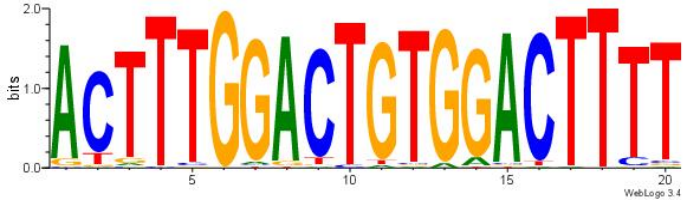

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149715

Alignment:
CCACCACAGCTCAAGGAGGC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

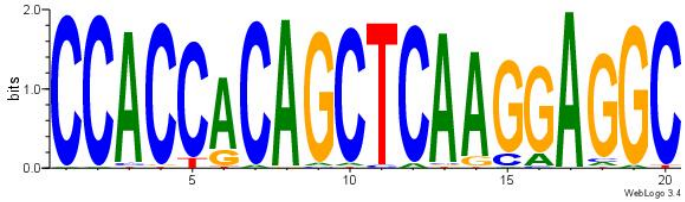

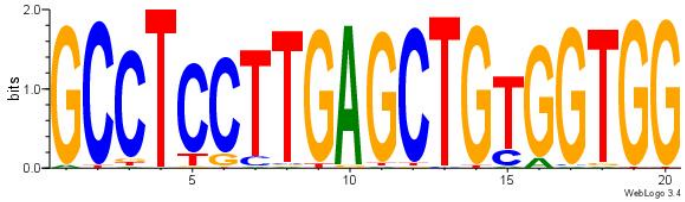

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151486

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

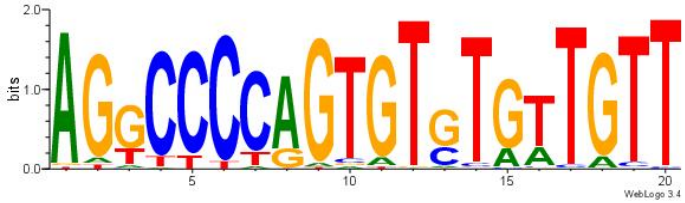

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

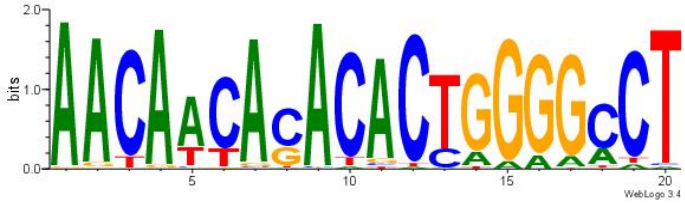

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154175

Alignment:
ATGTAACCAAAYACCACCTG
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

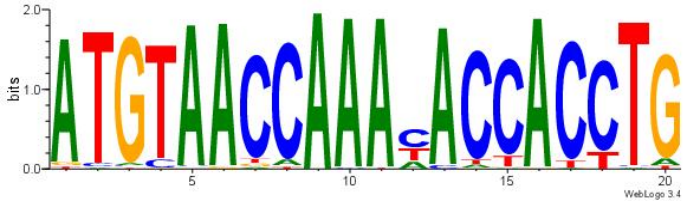

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

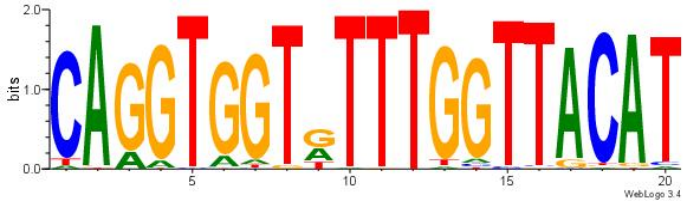

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154705

Alignment:
CAAGGGTATAYGAGTAGCTG
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

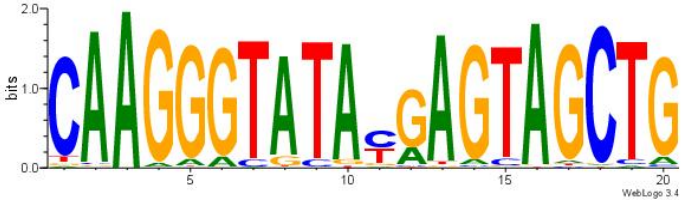

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

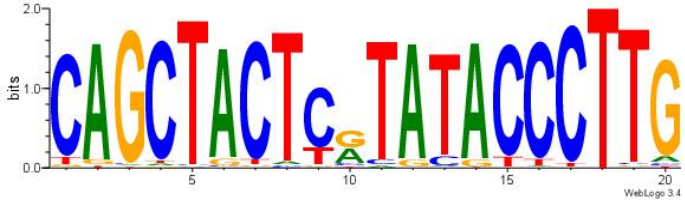

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155172

Alignment:
AAAATGTGGTAYATAYAYAC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

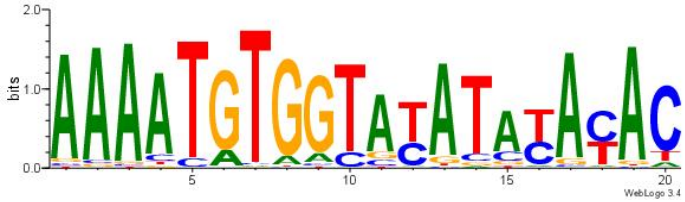

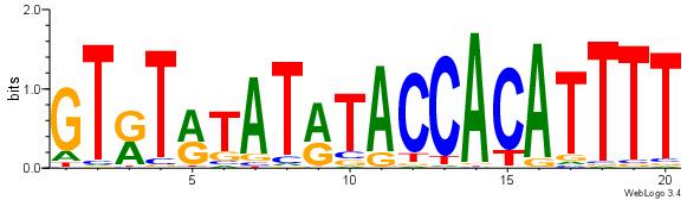

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155184

Alignment:

```
AGTGACCCGATTTTCCAGGT
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

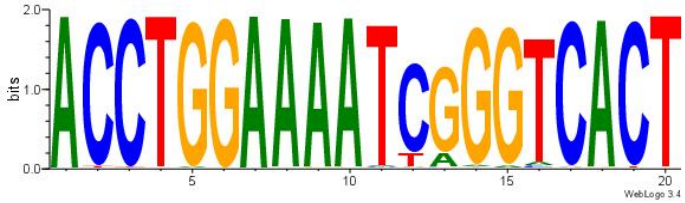

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

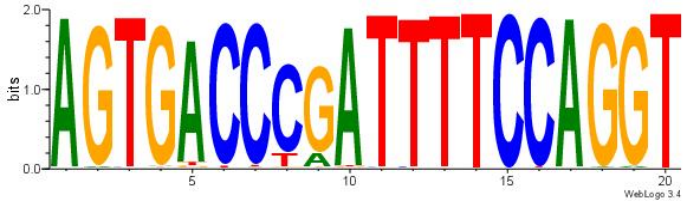

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15818

Alignment:

```
GCCTCTCCCTCCACACCTCC
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

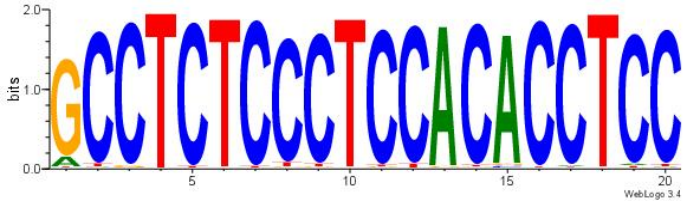

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

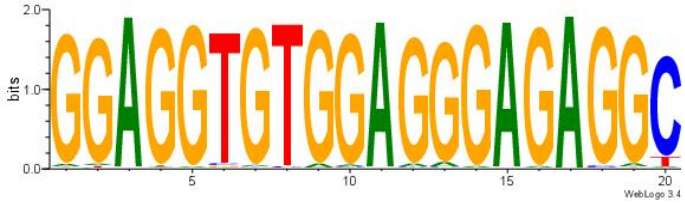

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158272

Alignment:
GTTATTAATTGGCCTAATTT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

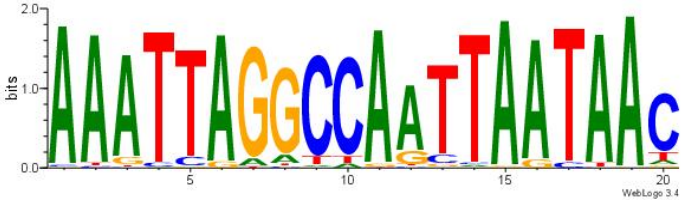

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158728

Alignment:
HAGTGGKATTGCTGGATCAT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

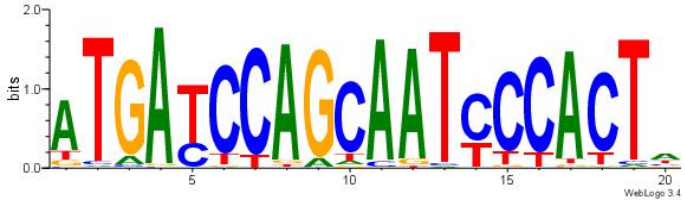

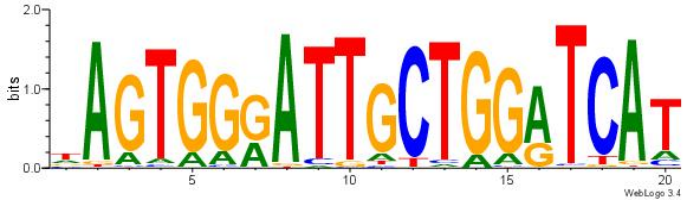

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159285

Alignment:
TCTCTCTCTCTCTCTCTCTC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

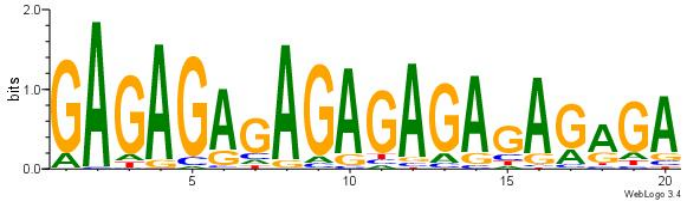

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

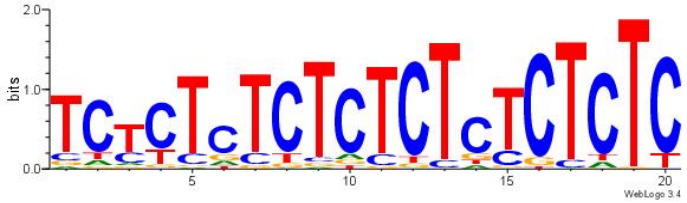

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159941

Alignment:

```
AATGAKATCATGTCYTTTGC
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

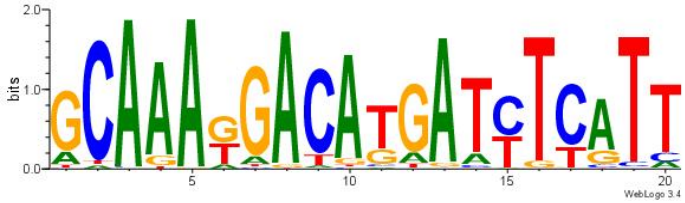

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

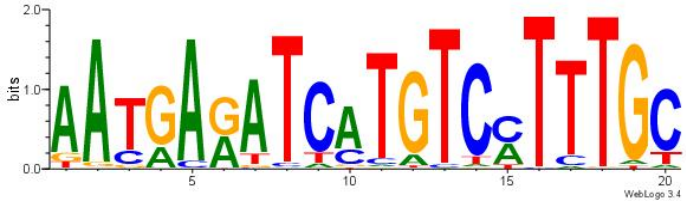

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160229

Alignment:
GCTGGAGTGCAGTGGCRYGA
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

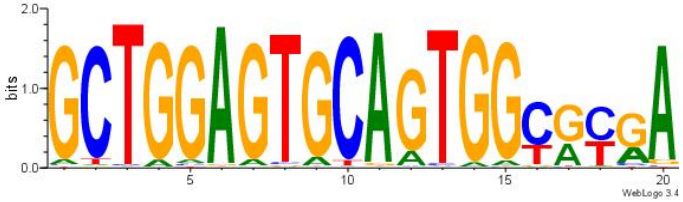

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

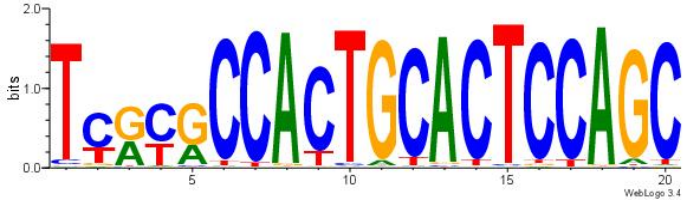

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16044

Alignment:
CGTCGCTCACGCTGGGAGCT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

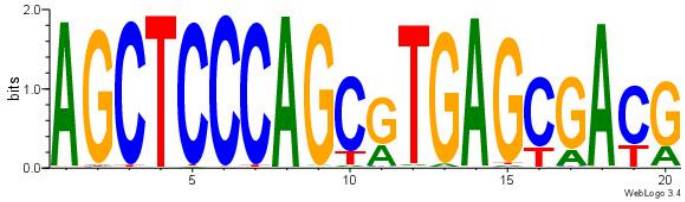

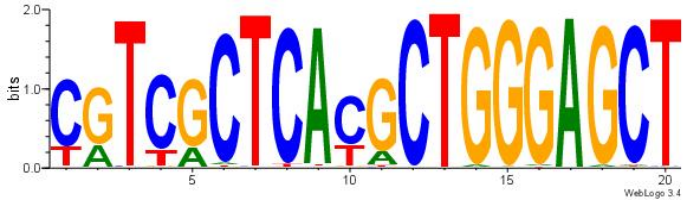

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160901

Alignment:
KKCACCTTGATCTTGGACTT
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

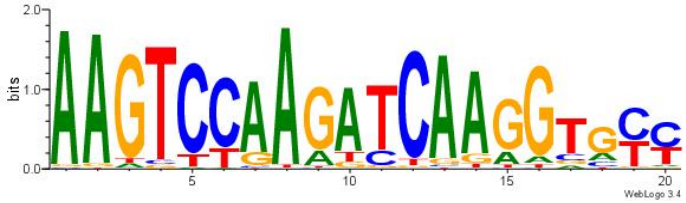

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

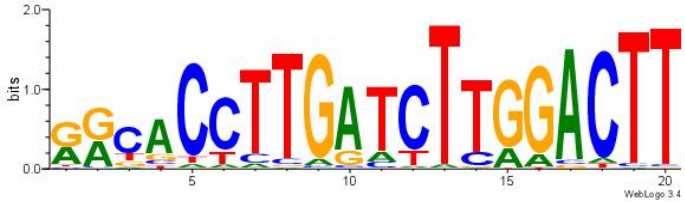

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161694

Alignment:

MGGGATATAATCTCCTGGTG

GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

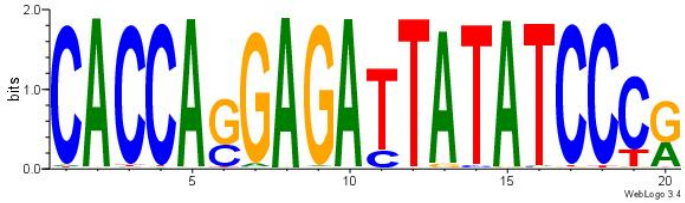

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

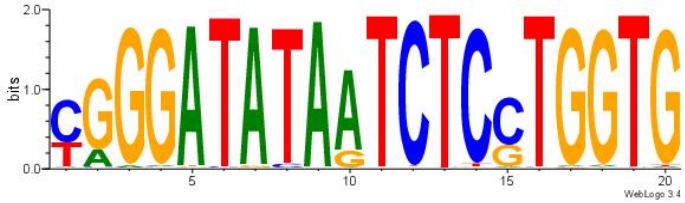

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162231

Alignment:
ACTCCCTAGTGAGATGAACC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

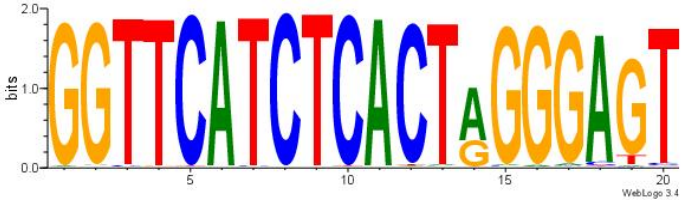

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

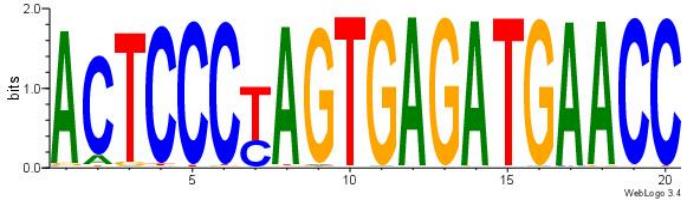

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.163649

Alignment:
CATTCTGGGGTCTGGAGGAY
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

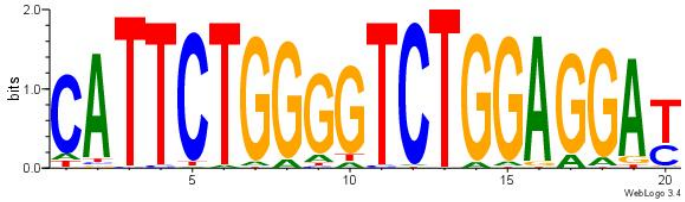

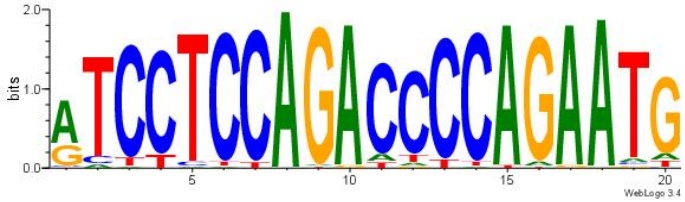

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163794

Alignment:
TACCTGAGACTGGGTAATTT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

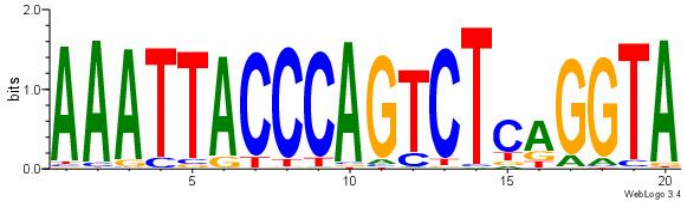

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

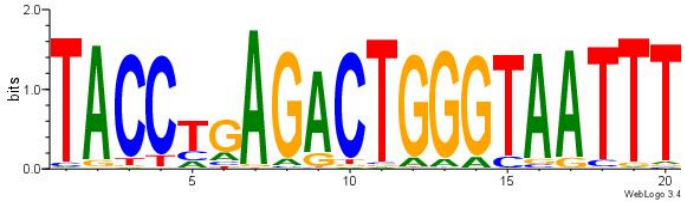

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.164949

Alignment:

GGAGCCGGCTCCCTCAGCTT

GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

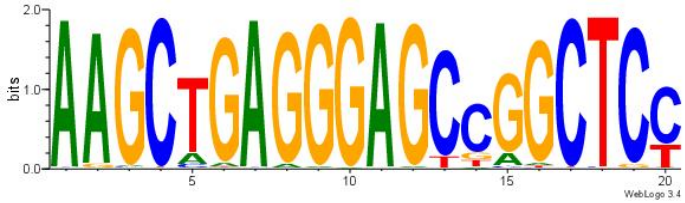

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

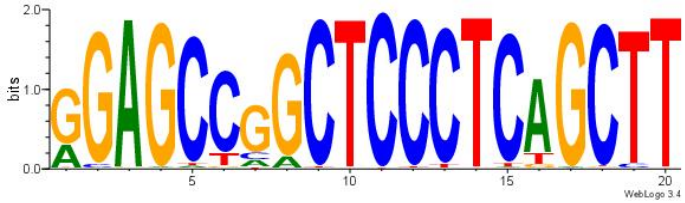

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.16639

Alignment:
AWTKKTGGTTKCCAGKGGCT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

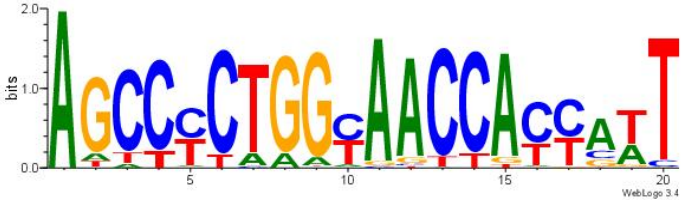

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

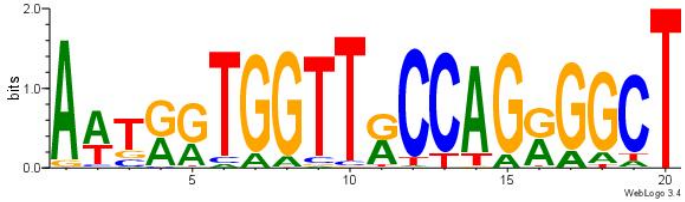

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166788

Alignment:
GAAACTGCTTTGTGATGTGT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

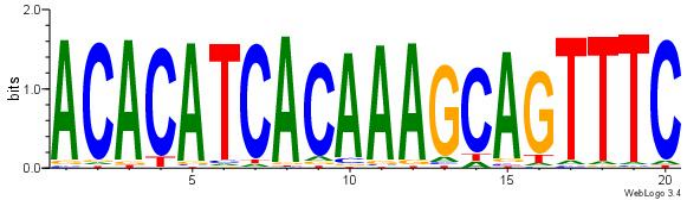

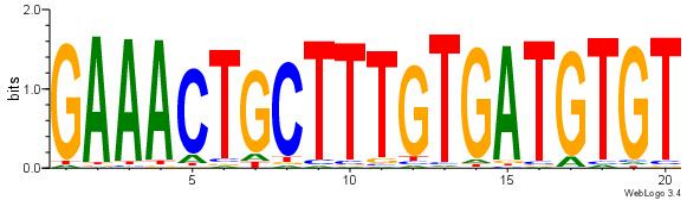

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167622

Alignment:
ATAGGAATGCTTGTGATTTT
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

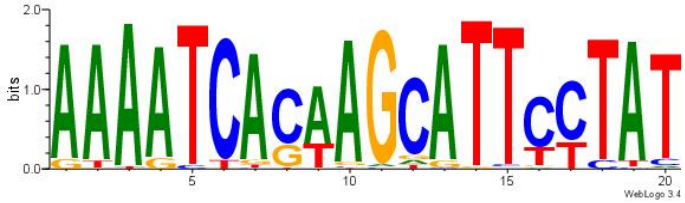

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

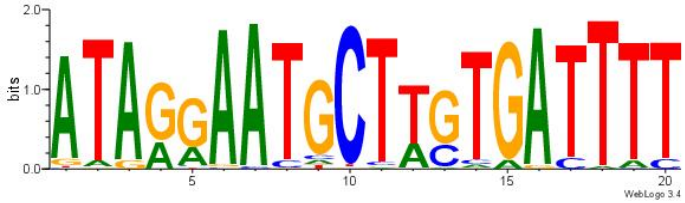

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16801

Alignment:

```
TAGATAATAGCTCCAGCTTT
GAAAGGGAACTCCCTGACCC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

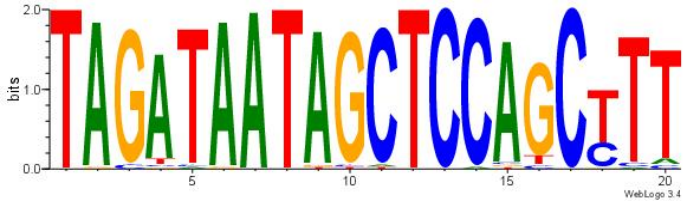

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

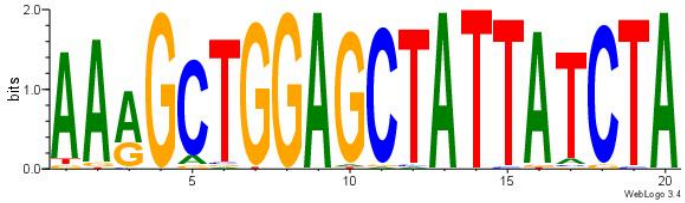

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.168175

Alignment:
AGAAATCGAGCRCAGCGCCG
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

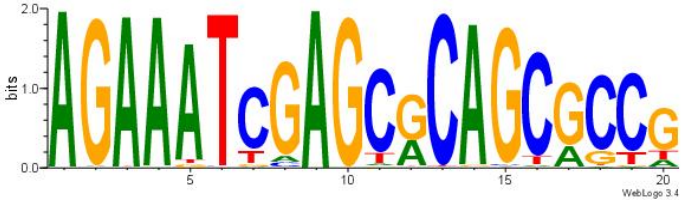

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

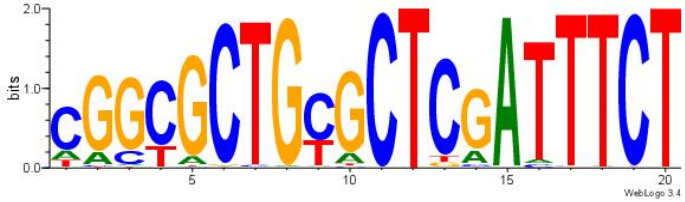

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.168212

Alignment:
GTGGCCCTCTTCTCACAGCT
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

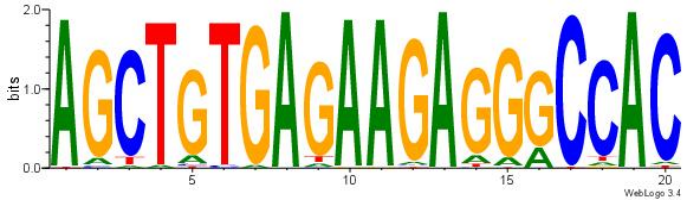

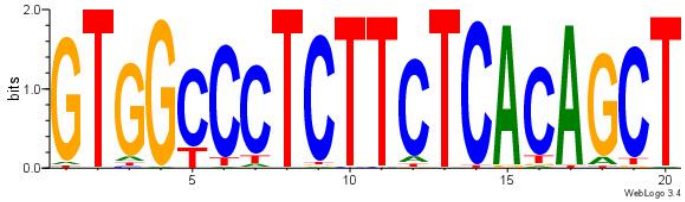

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168298

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

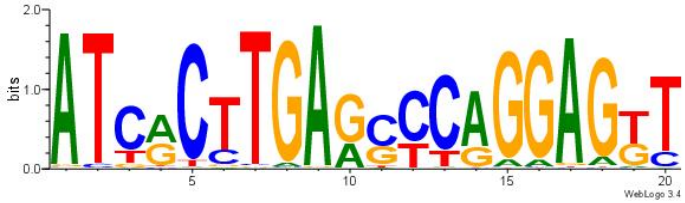

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

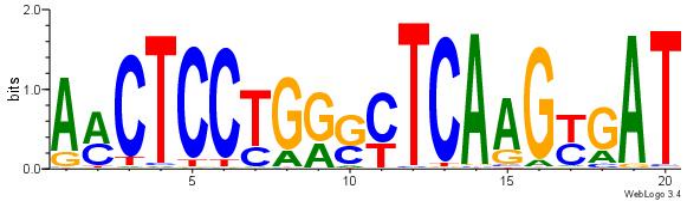

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168312

Alignment:

GGCAATGCCTCGCCCTGCTT

GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

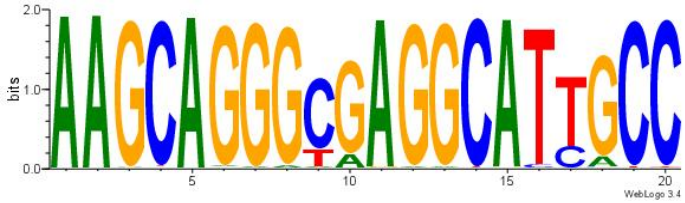

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

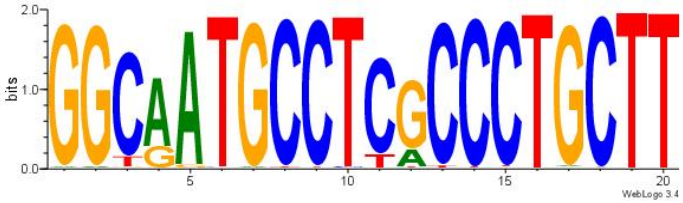

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.169448

Alignment:
TTGGTAGGATCCGTGATGCC
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

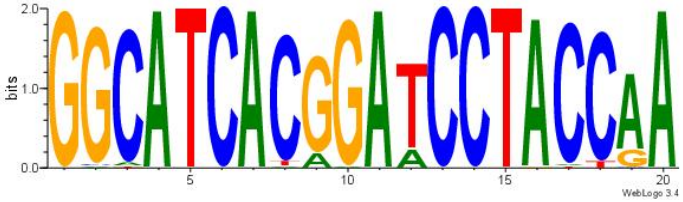

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

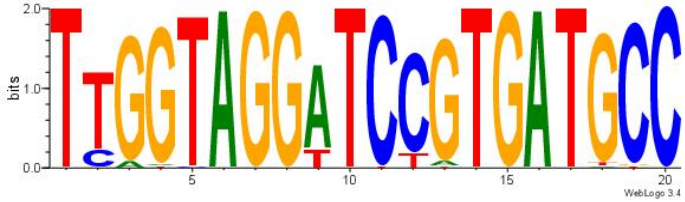

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.171158

Alignment:
TCTGGAGTGGACCTCCAGCA
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

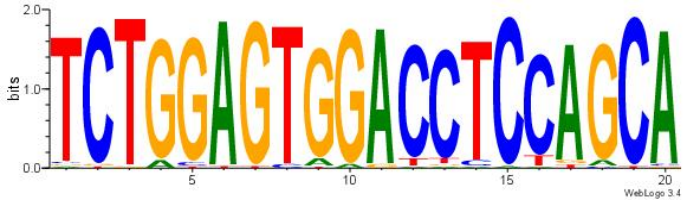

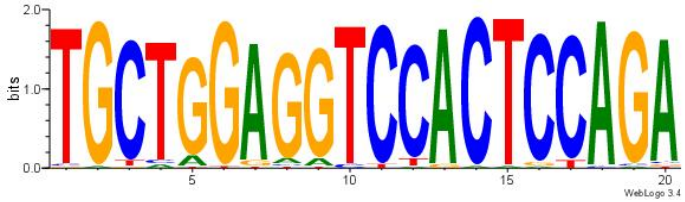

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.171778

Alignment:

```
GGATCCACTGGGTGAAGCCA
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

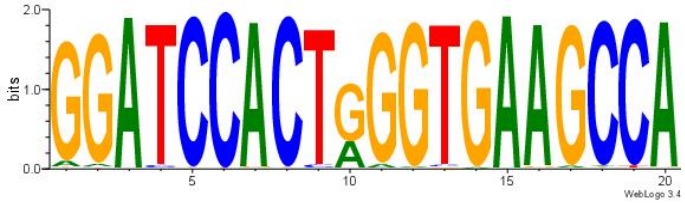

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

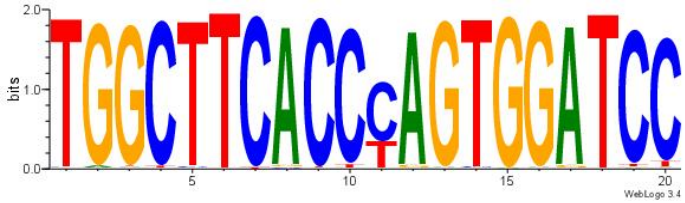

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.172565

Alignment:

```
TTGTCCCACTGGAAGGTCTT
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

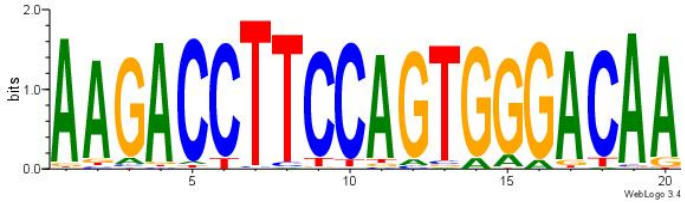

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

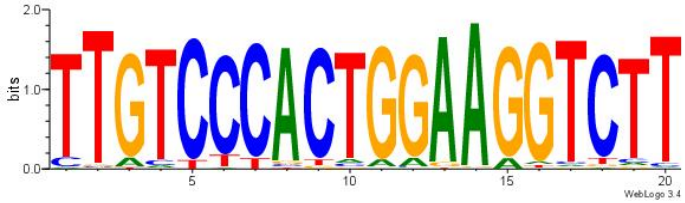

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.172693

Alignment:
AGCTCMKCCTCCTGTCAGAT
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

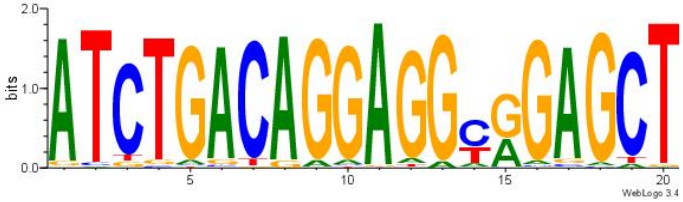

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

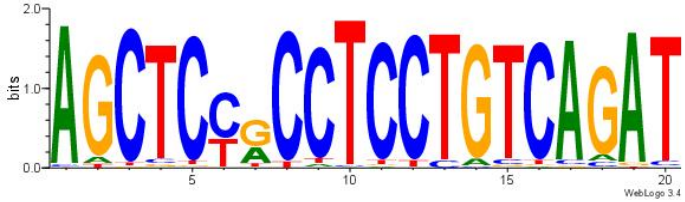

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.172999

Alignment:
GCCKGGMKCMGTGGCTCAKG
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

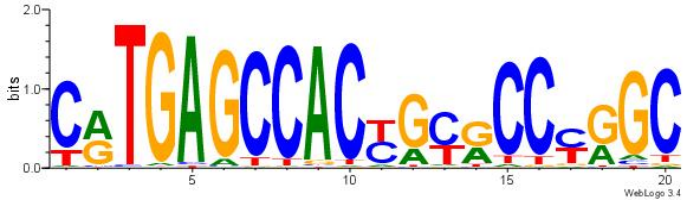

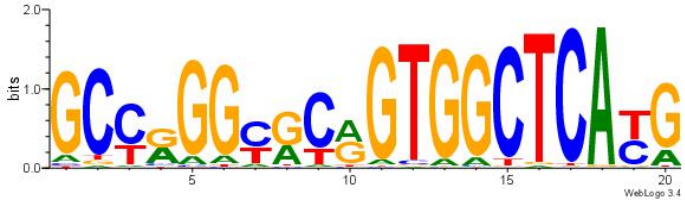

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.174332

Alignment:
TMGGGAGGCTGAGGCAGGAG
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

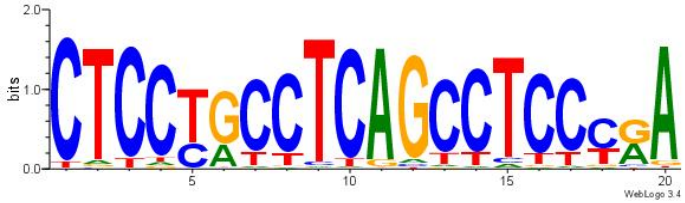

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

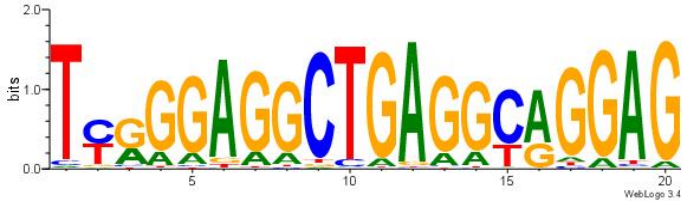

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.175109

Alignment:

```
TAATTTTATGTGTCAACTTG
GGGTCAGGGAGTTCCCTTTC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

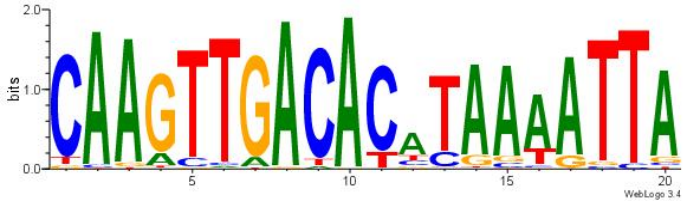

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

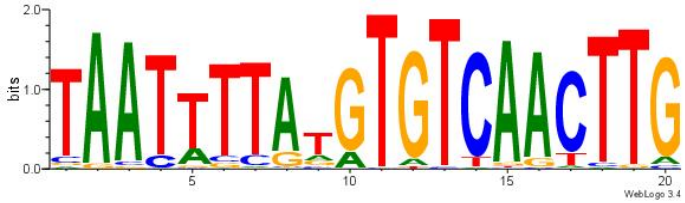

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.175884

Alignment:
CTGGGTCCCCCAGCAGTGCC
GAAAGGGAACTCCCTGACCC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

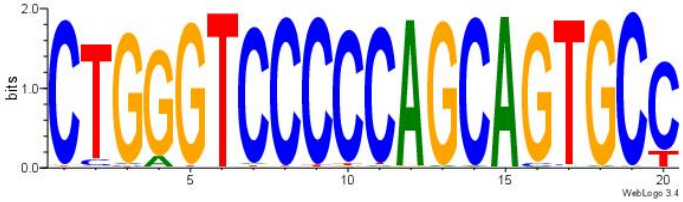

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

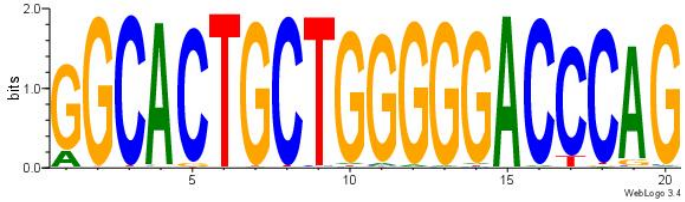

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.176214

Alignment:
ACCKTCGCGGTGAGTGTTAC
GGGTCAGGGAGTTCCCTTTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

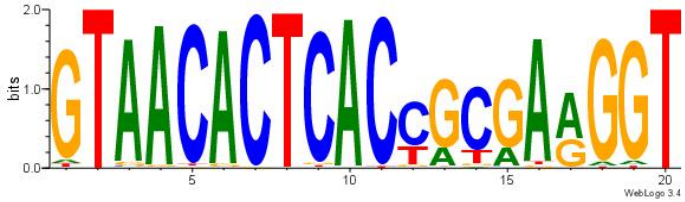

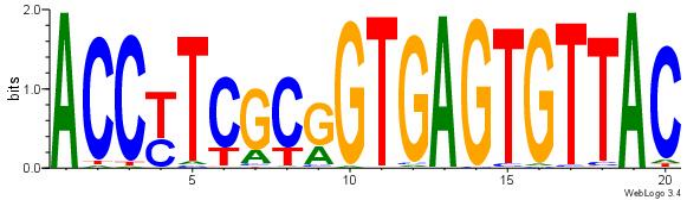

Dataset #: 1 **Motif ID: 17** **Motif name: Motif 17**

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

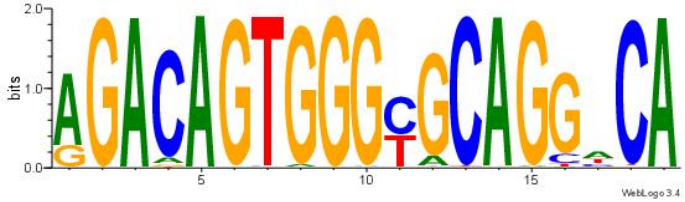

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

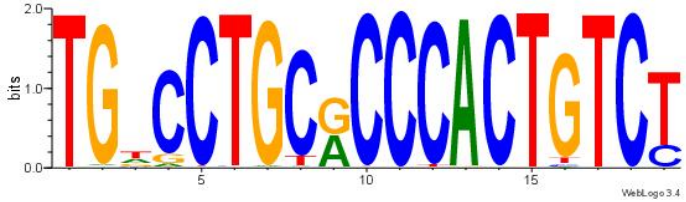

Best Matches for Motif ID 17 (Highest to Lowest)

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0792941

Alignment:

CGGCGCTGMGCTCGATTTCT
-TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

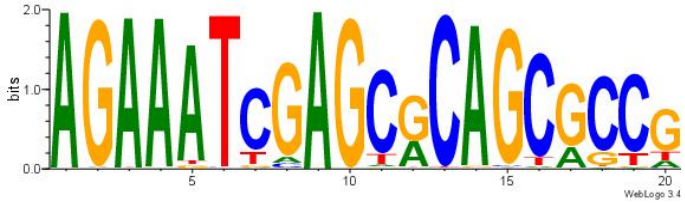

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

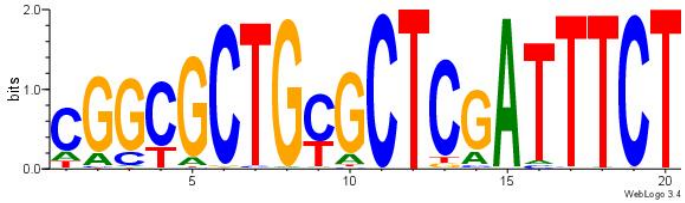

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0967987

Alignment:
AGGACTGAGGGTGCCYRGGG
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

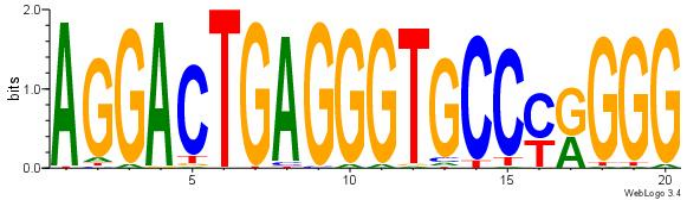

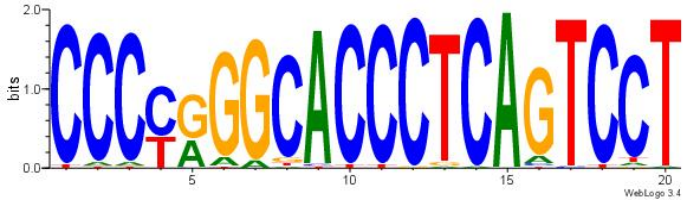

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0971018

Alignment:

```
GKCTGTACCCCCATTGTAT
TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

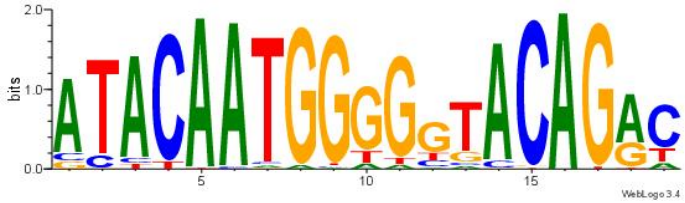

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

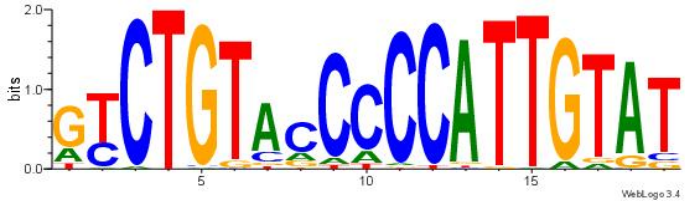

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0996968

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

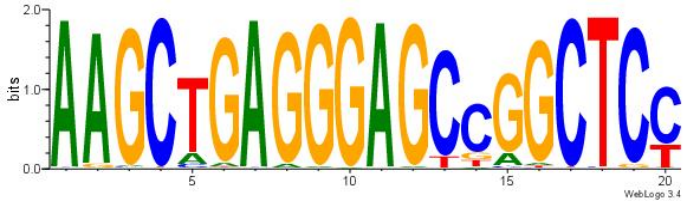

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

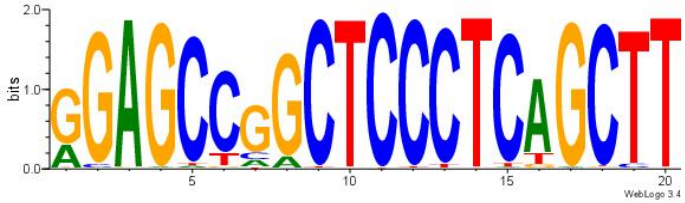

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.101245

Alignment:
TCTCTCTCTCTCTCTCTCTC
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

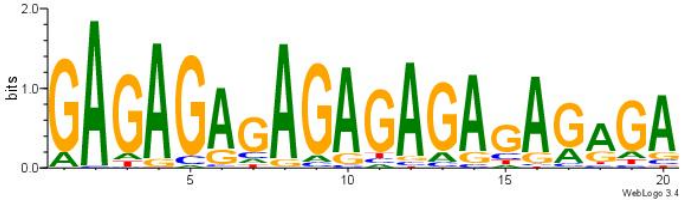

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

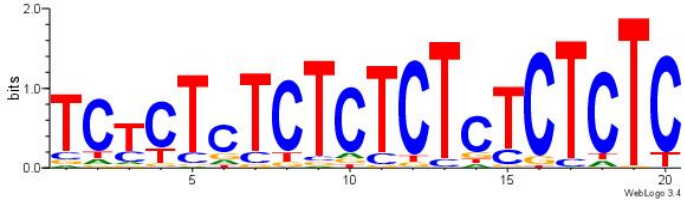

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.104424

Alignment:
TAGATAATAGCTCCAGCTTT
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

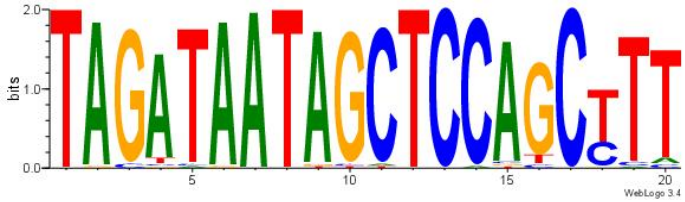

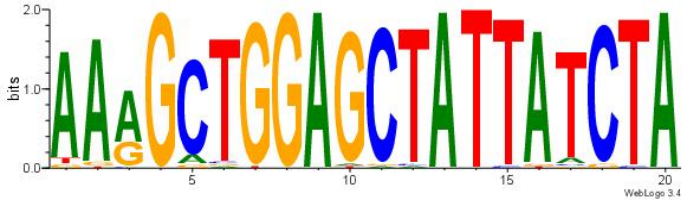

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.107628

Alignment:

```
GTKTMTATMTACCACATTTT
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

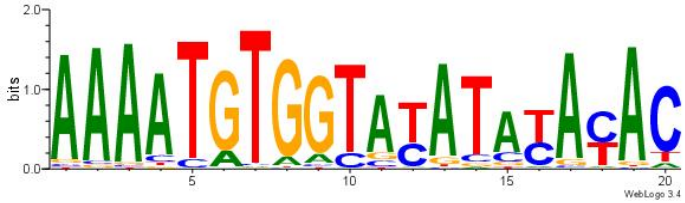

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

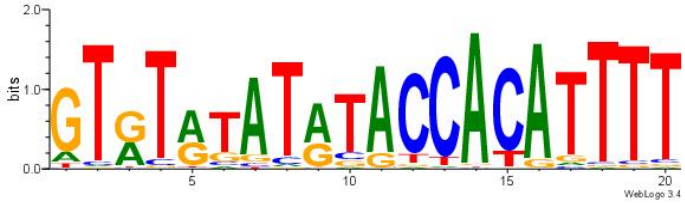

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.111847

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
TGHCCTGCKCCCACTGTCT-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

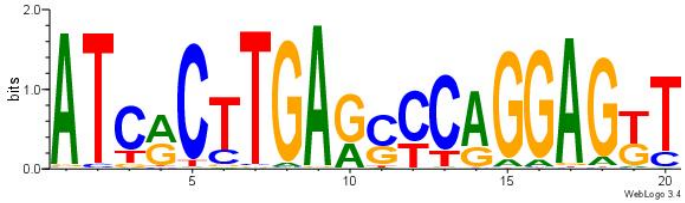

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

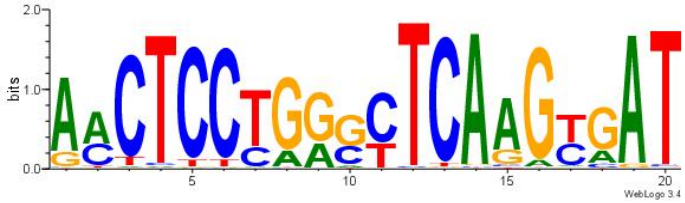

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.115232

Alignment:
AAGTTCTKGGKTACATGTGC
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

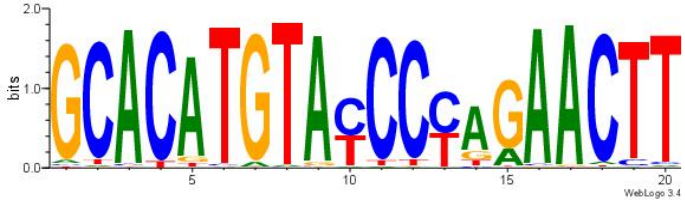

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

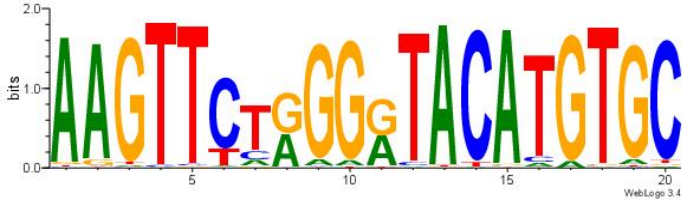

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.116023

Alignment:
CTGGGCTCCTGAGTCTGGTG
-TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

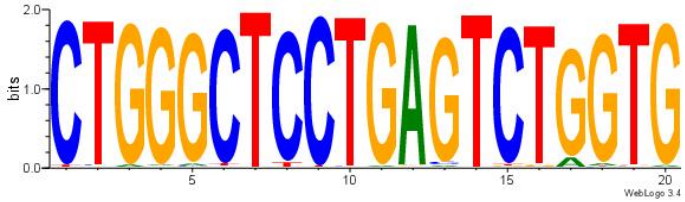

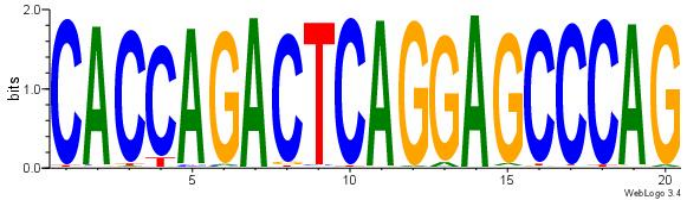

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.116136

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
AGACAGTGGGYGCAGGHCA-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

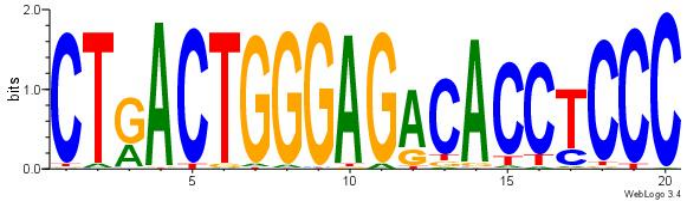

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

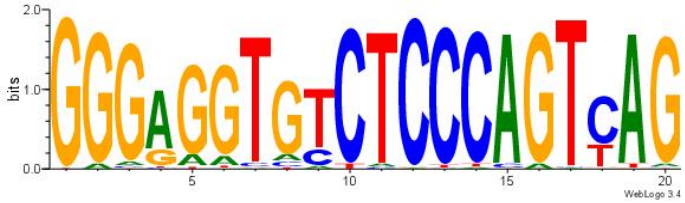

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.119791

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

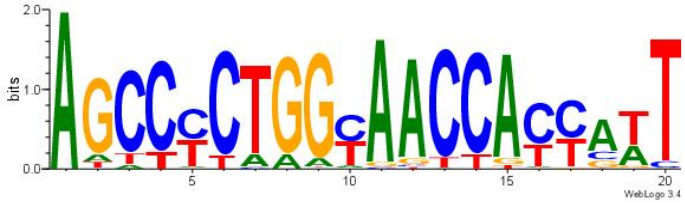

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

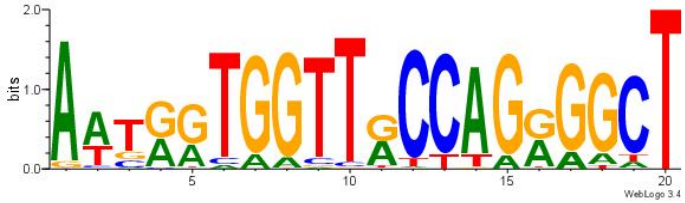

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.122998

Alignment:
GGCAATGCCTCGCCCTGCTT
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

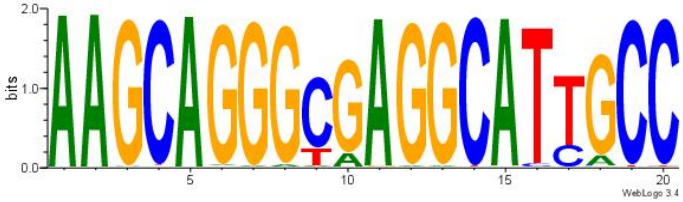

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

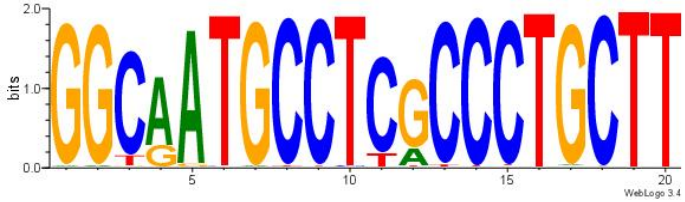

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.124564

Alignment:
TGCTGGAGGTCCACTCCAGA
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

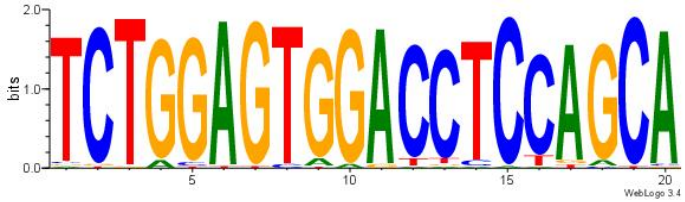

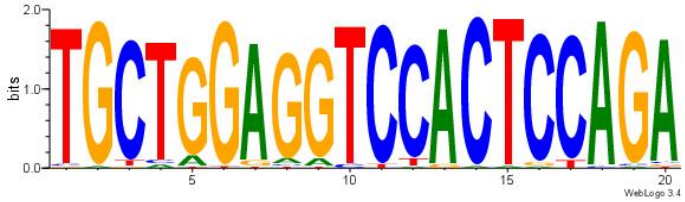

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.124924

Alignment:

```
GAATACCTCCTGAAGGACCT
AGACAGTGGGYGCAGGHCA-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

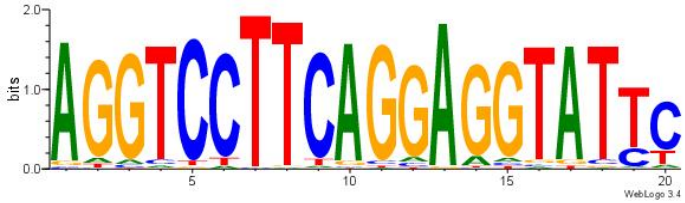

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

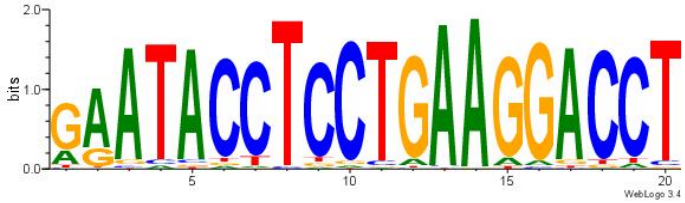

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.126884

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

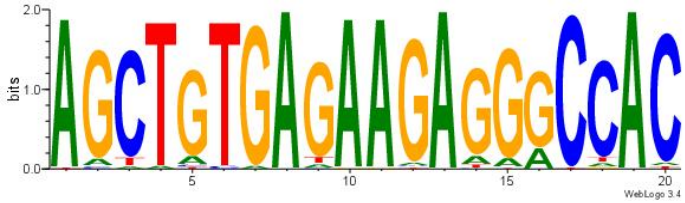

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

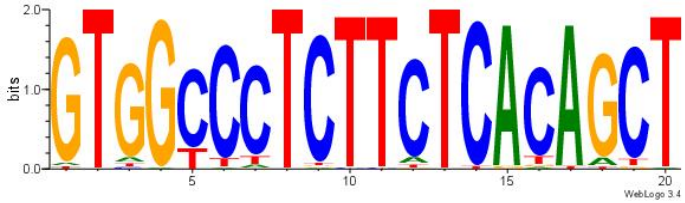

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.128397

Alignment:
AGATGCCAGCCAGAGCTCT
AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

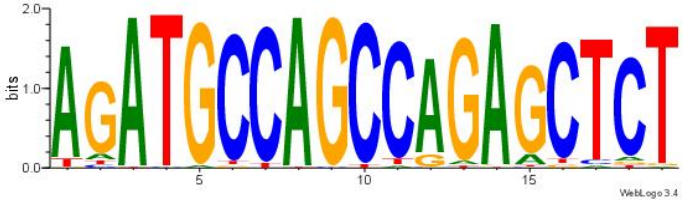

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

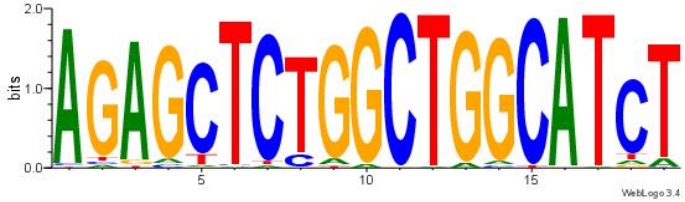

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.129513

Alignment:
GCGCTCKTCGGGGAGGCTCG
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

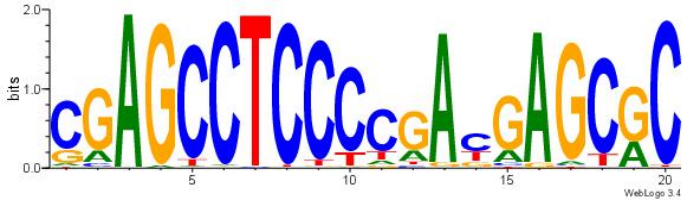

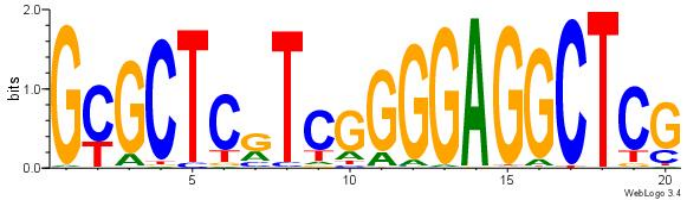

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129735

Alignment:

```
GCTGTGTGACCTTGGGCAAG
AGACAGTGGGYGCAGGHCA-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

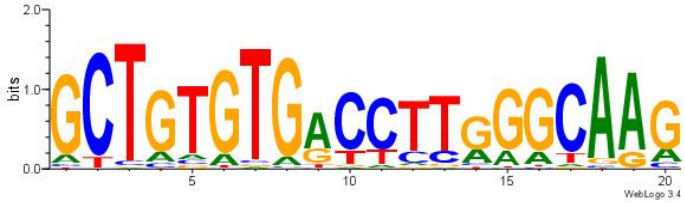

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

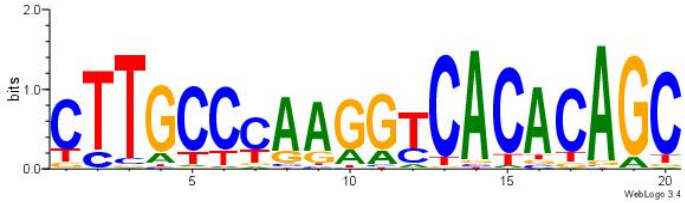

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.130618

Alignment:

```
GCCAATTTCTCCCATTTGGA
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

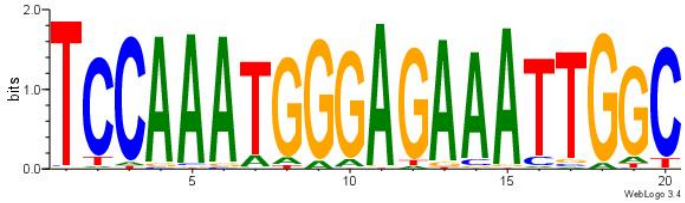

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

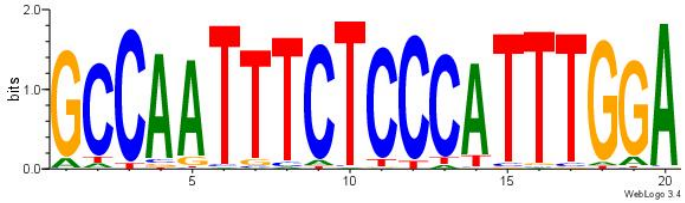

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.130794

Alignment:
GTCCCATCGACCACCCAAG
TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

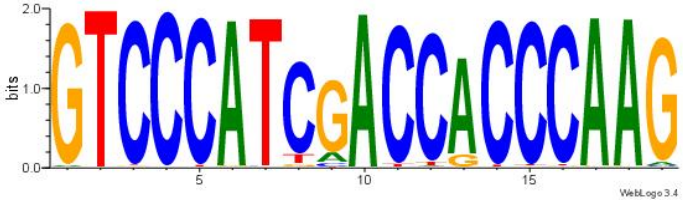

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

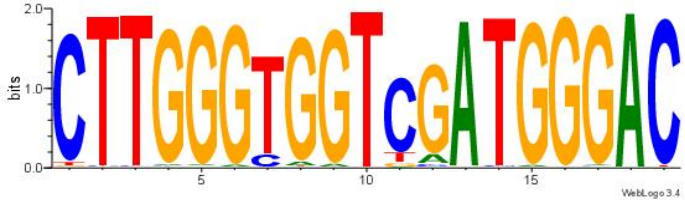

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130976

Alignment:
TTGTCCCACTGGAAGGTCTT
-TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

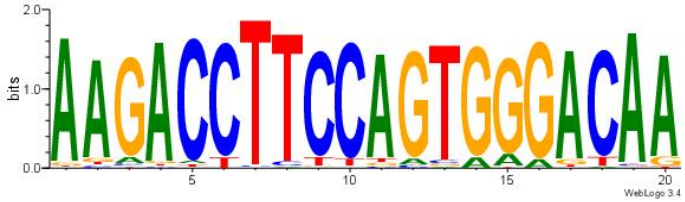

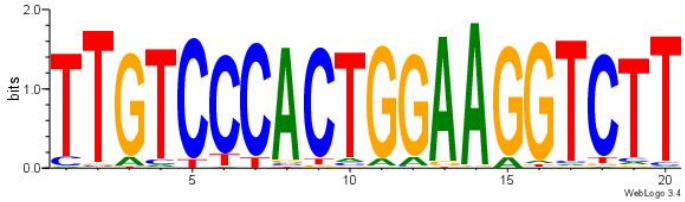

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.13127

Alignment:

```
GAAAGGGAACTCCCTGACCC
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

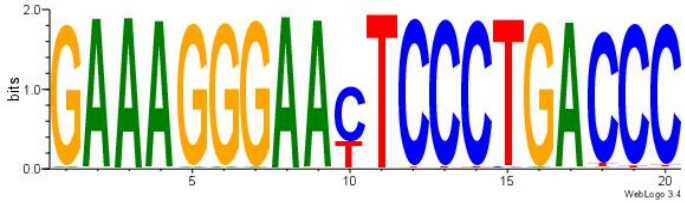

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

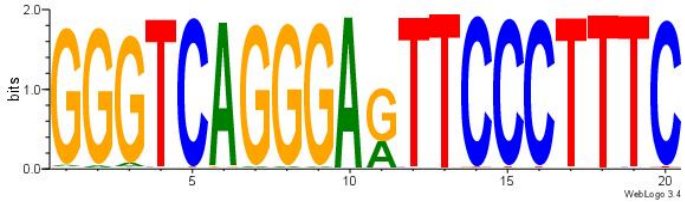

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132329

Alignment:
MGTCTMKCTCTGTKGCCCAG
AGACAGTGGGYGCAGGHCA-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

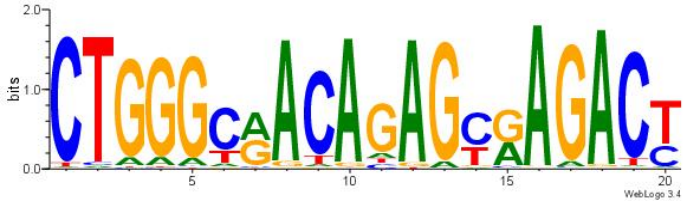

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

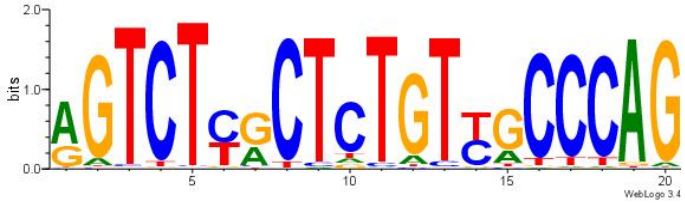

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.132997

Alignment:
GGCACTGCTGGGGGACCCAG
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

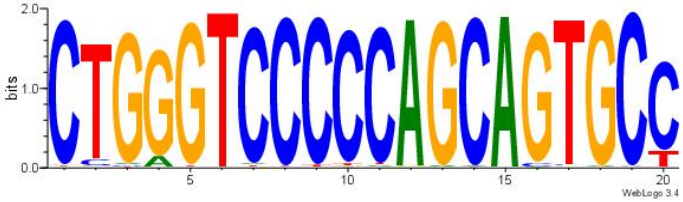

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

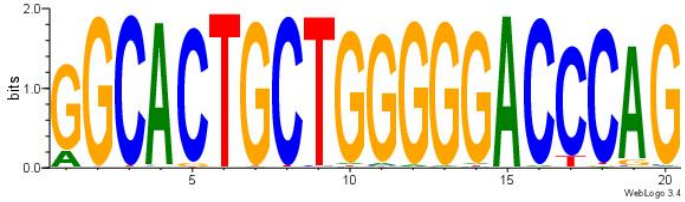

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.134105

Alignment:
GGAGGTGTGGAGGGAGAGGC
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

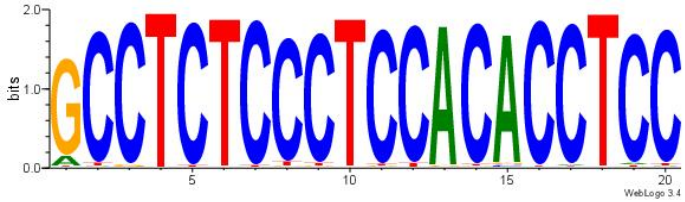

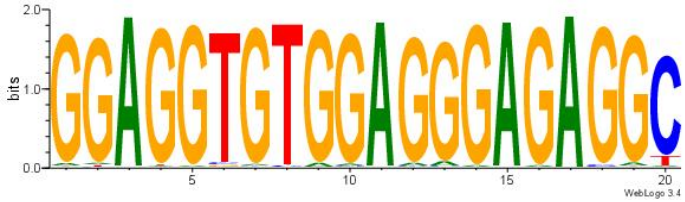

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.134524

Alignment:

```
GGGATTGTAAATACACCAAT
-AGACAGTGGGYGCAGGHCA
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

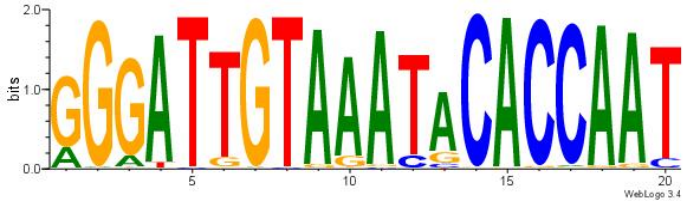

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135425

Alignment:

```
KKCACCTTGATCTTGGACTT
TGHCCTGCKCCCACTGTCT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

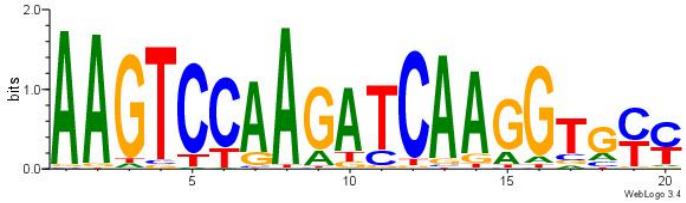

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

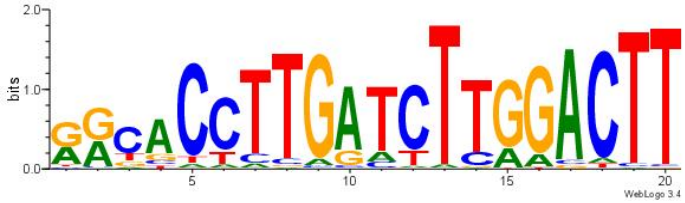

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.135719

Alignment:
CGCCCATCGTCTGGGATGT
TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

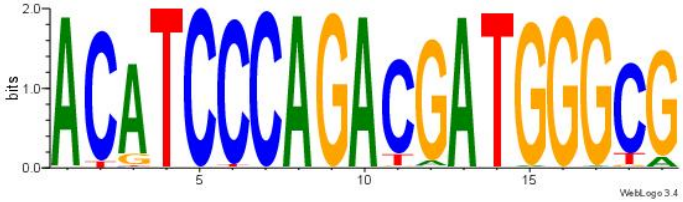

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

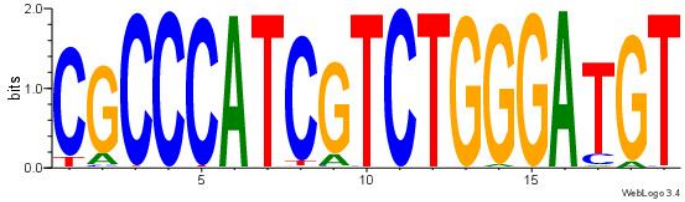

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136362

Alignment:
GTAACACTCACCGCGARGGT
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

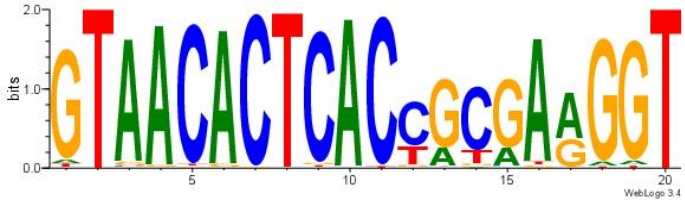

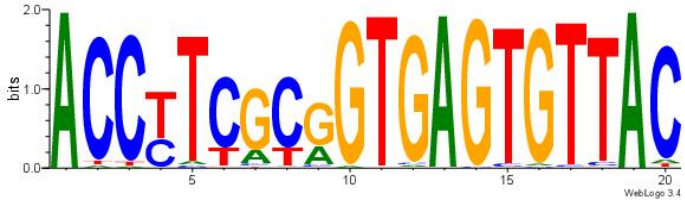

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.136544

Alignment:

```
AAGGAACAAACTCCRGACAC
AGACAGTGGGYGCAGGHCA-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

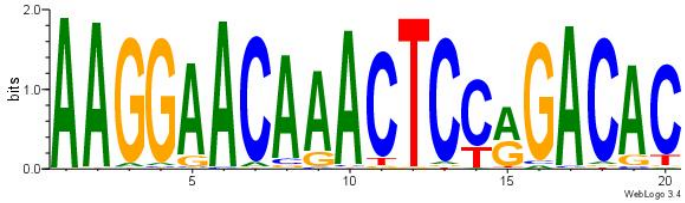

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

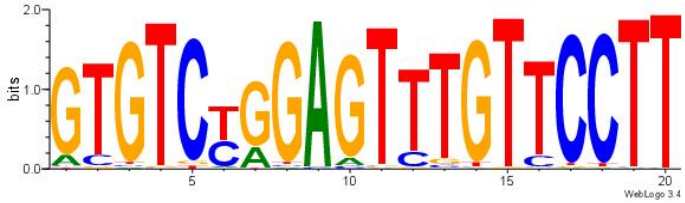

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136767

Alignment:

```
ACTGTCTTCCACCTCCACAT
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

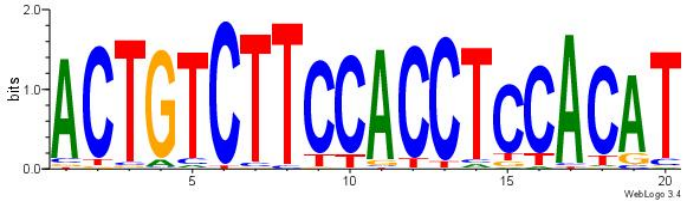

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

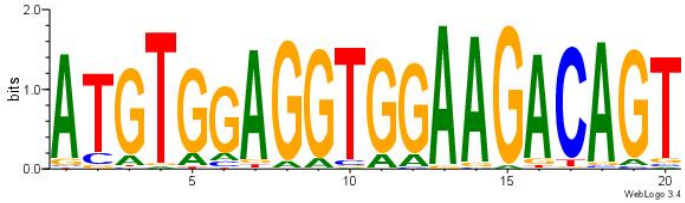

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.137011

Alignment:
GGTTCATCTCACTAGGGAGT
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

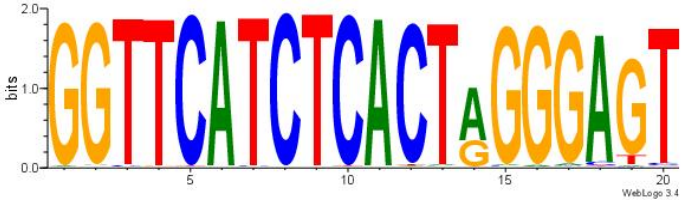

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

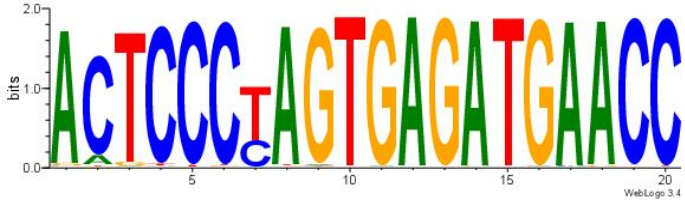

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13728

Alignment:
AGGTTTGTTACATAGGTAWA
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

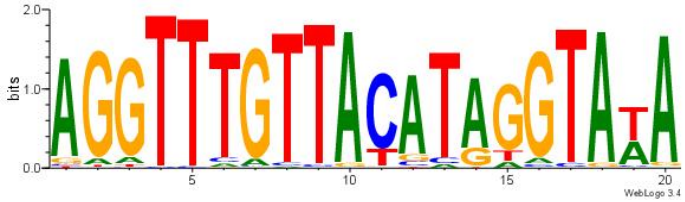

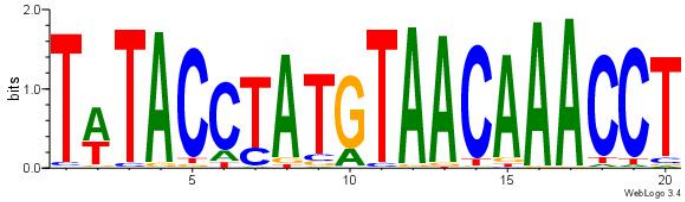

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138059

Alignment:

```
ATTAGCYRGGCRTGGTGGC
AGACAGTGGGYGCAGGHCA
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

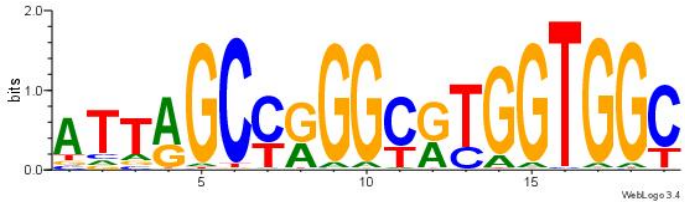

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

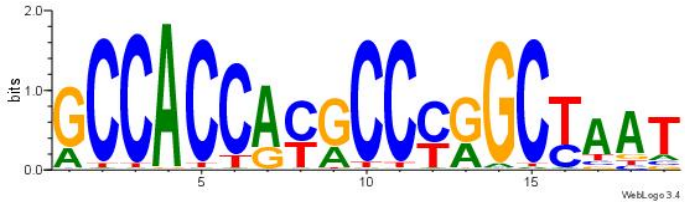

Dataset #:	1

Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138287

Alignment:
AATTAAAAGACACAGACTG
AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: AATTAAAAGACACAGACTG

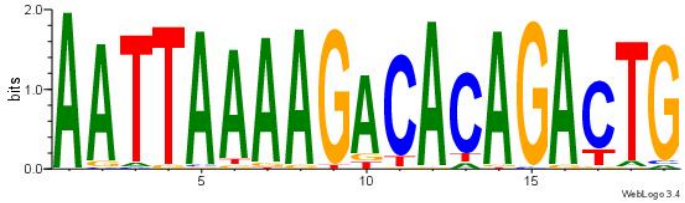

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

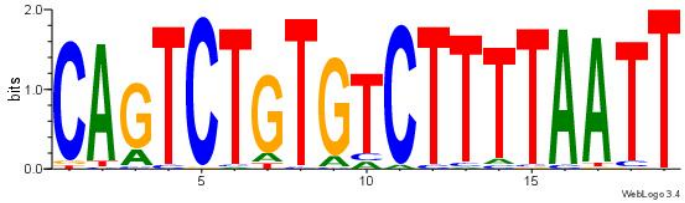

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.138377

Alignment:
AGCCCCGGTTCCCGCYCGC
TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

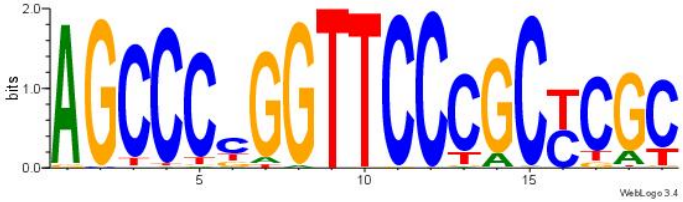

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

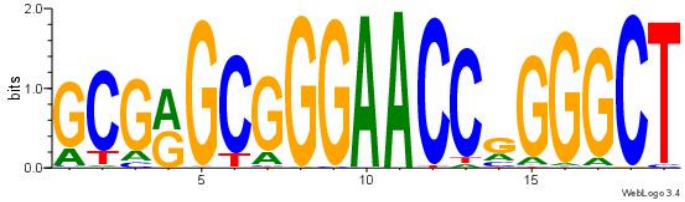

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.138565

Alignment:
AGTGAGAACATRYRRTRTTT
AGACAGTGGGYGCAGGHCA-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

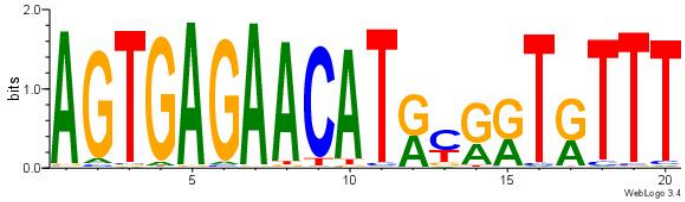

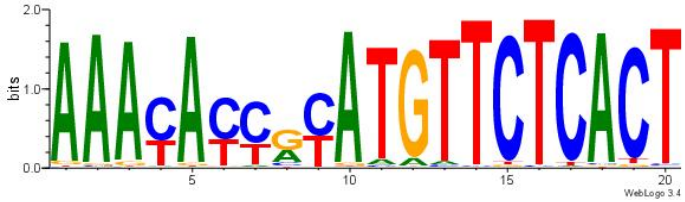

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138641

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-AGACAGTGGGYGCAGGHCA
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

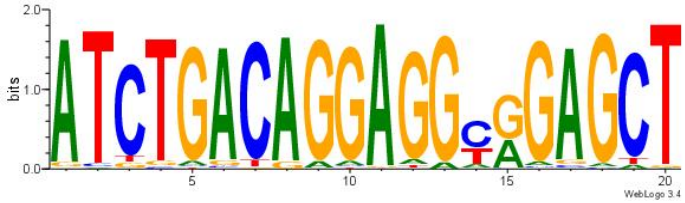

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

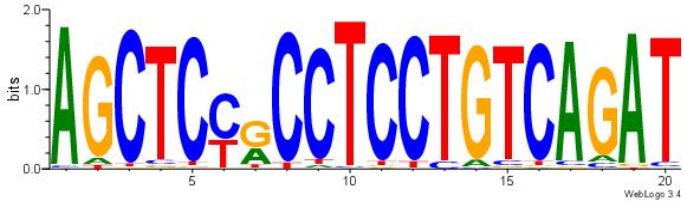

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138733

Alignment:

```
CAAGCCTSKGCAATGGCAGG
AGACAGTGGGYGCAGGHCA-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

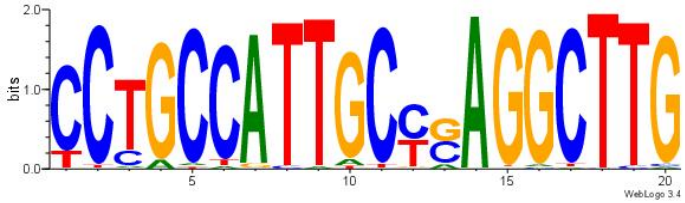

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

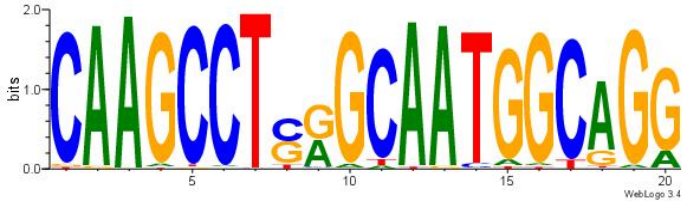

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.139438

Alignment:
GGATCCACTGGGTGAAGCCA
-AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

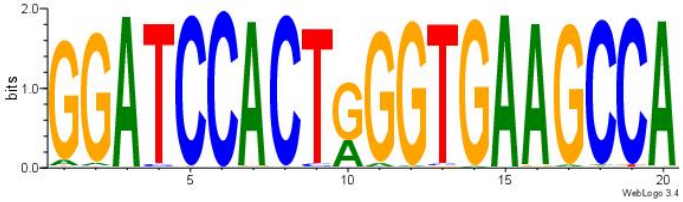

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

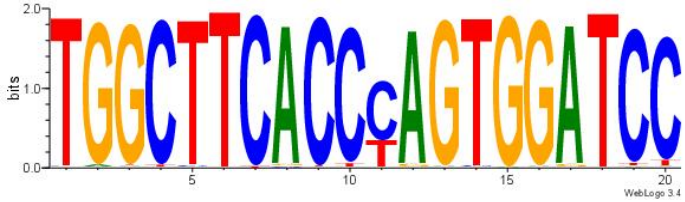

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.140268

Alignment:
CCACCACAGCTCAAGGAGGC
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

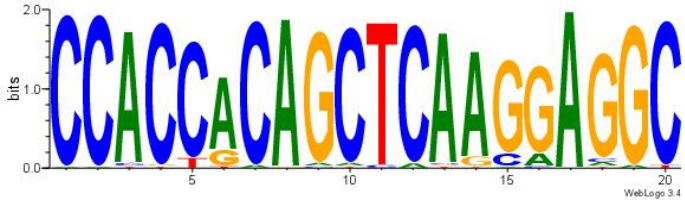

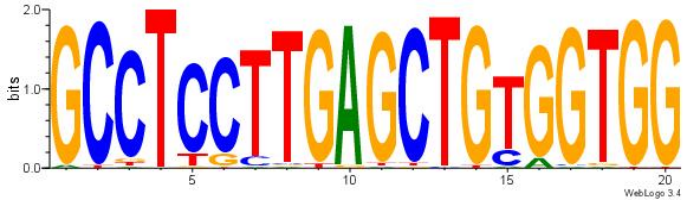

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.14042

Alignment:

```
ATGGCTGAATAKTATTCCAT
-TGHCCTGCKCCCACTGTCT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

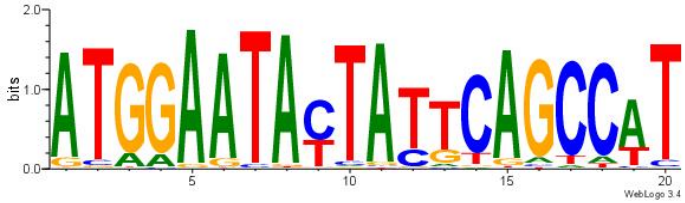

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

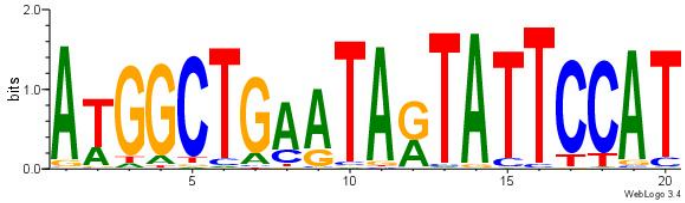

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.140756

Alignment:

```
GTTTAACCATTGAGGGCCAG
AGACAGTGGGYGCAGGHCA-
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

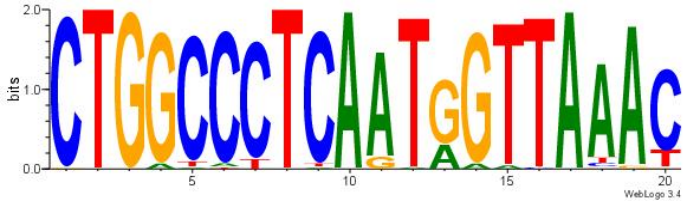

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

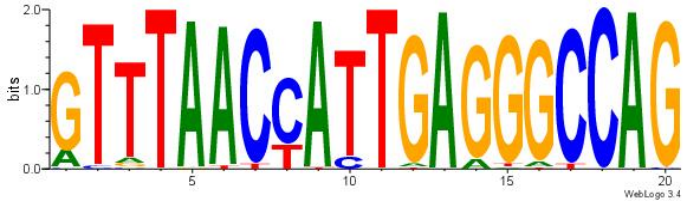

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.140906

Alignment:
CMTAGYACAGTGCCTGGCAC
AGACAGTGGGYGCAGGHCA-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

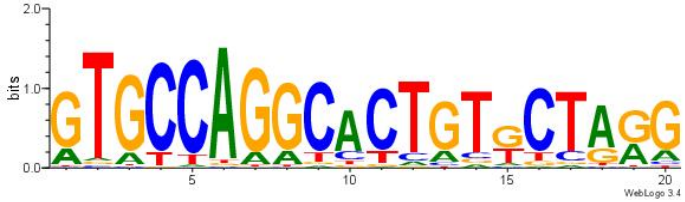

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

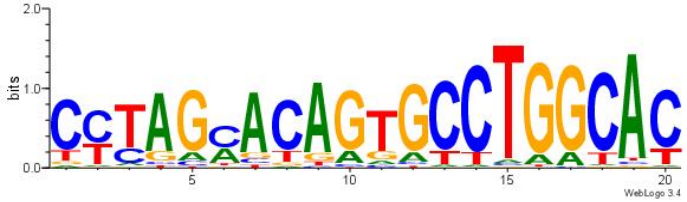

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140911

Alignment:
CTCCTGCCTCAGCCTCCCRA
TGHCCTGCKCCCACTGTCT-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

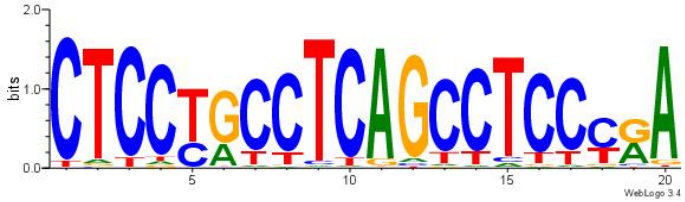

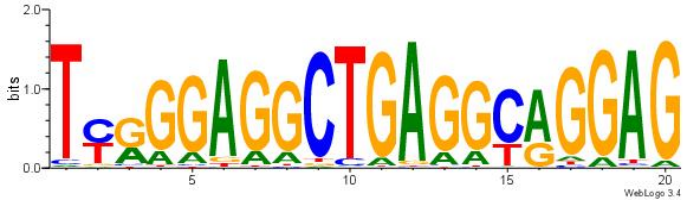

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141156

Alignment:
GGTGGGGGGGTCAGCCCCC
AGACAGTGGGYGCAGGHCA

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

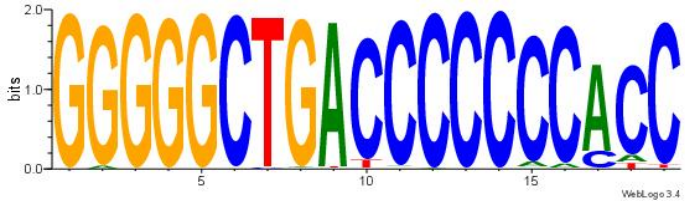

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

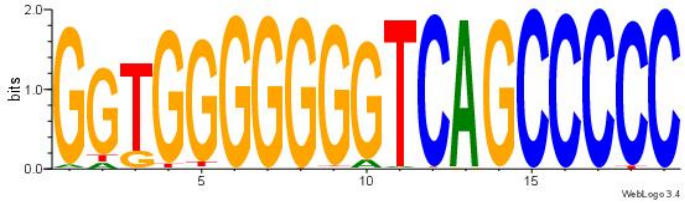

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.141871

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
TGHCCTGCKCCCACTGTCT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

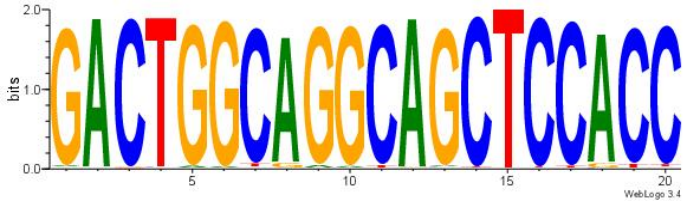

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

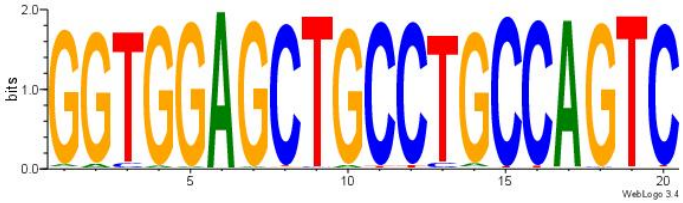

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.142808

Alignment:
TGTGTGTGTGTKTGTGTGT
TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: ACACACAYACACACACACA

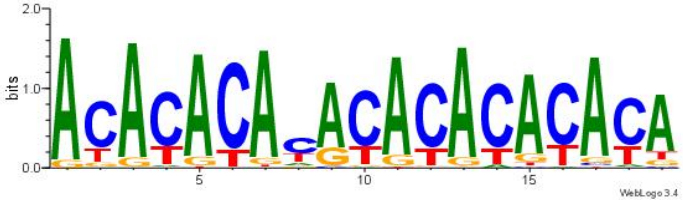

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

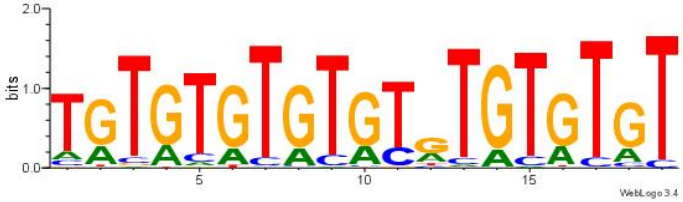

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.14376

Alignment:
CTCCAGKTMCATCCATGTTG
-TGHCCTGCKCCCACTGTCT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

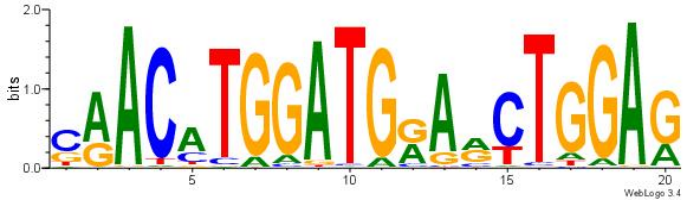

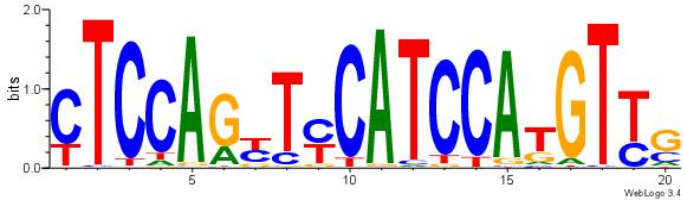

Dataset #: 1 **Motif ID: 18** **Motif name: Motif 18**

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

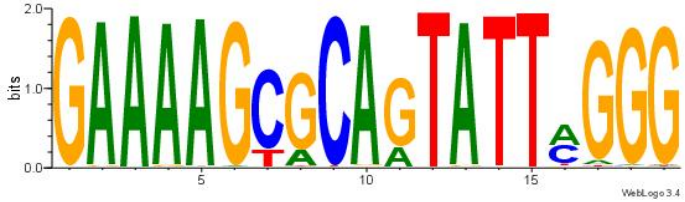

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

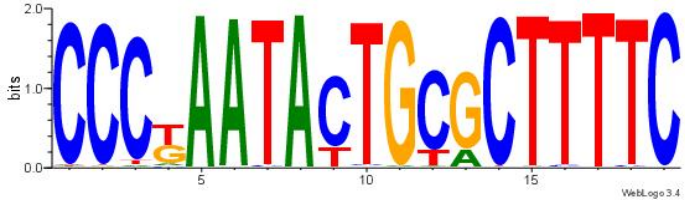

Best Matches for Motif ID 18 (Highest to Lowest)

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112986

Alignment:

AAATTACCCAGTCTCAGGTA
GAAAAGCGCAGTATTMGGG-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

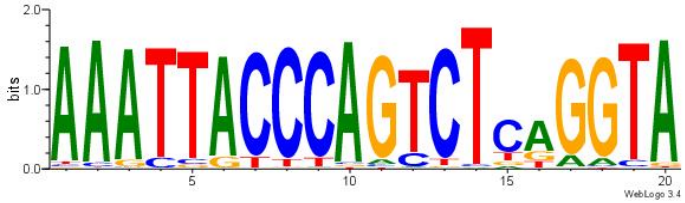

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

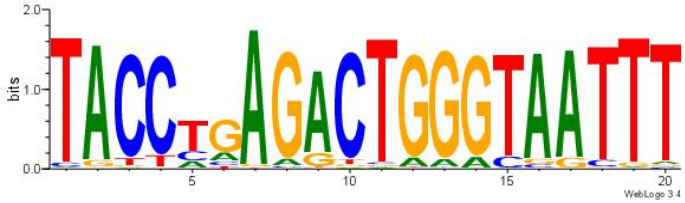

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.113548

Alignment:
ACCCAATWTGTAGTCTTTTA
-CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

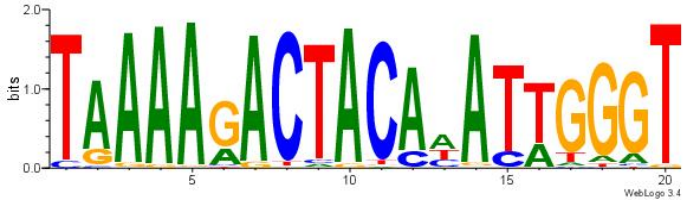

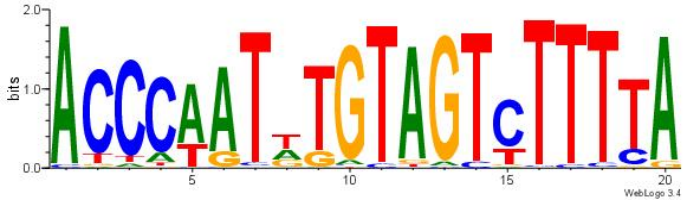

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12058

Alignment:

```
GCCAATTTCTCCCATTTGGA
CCCYAATACTGCGCTTTTC-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

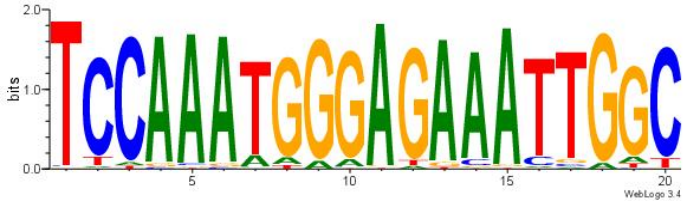

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

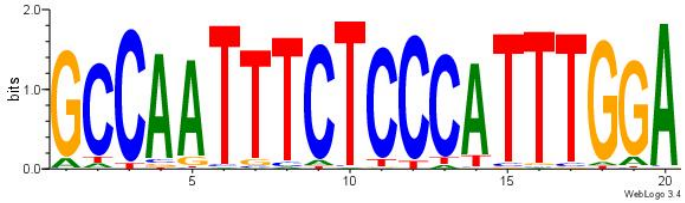

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.124626

Alignment:

```
GTAACACTCACCGCGARGGT
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

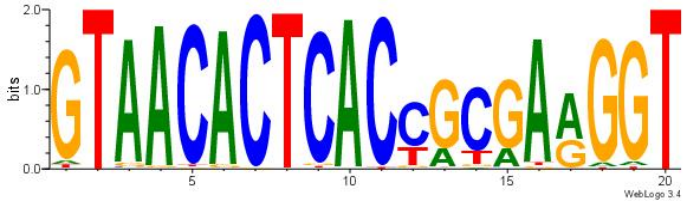

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

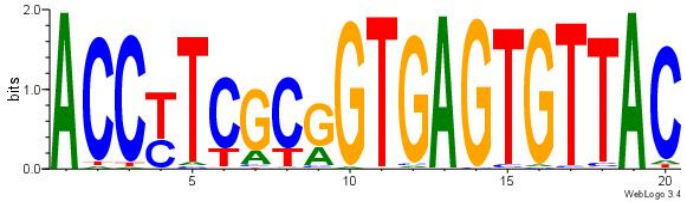

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.125732

Alignment:
GCAAAKGACATGATYTCATT
GAAAAGCGCAGTATTMGGG-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

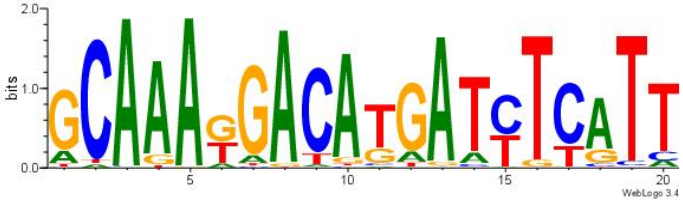

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

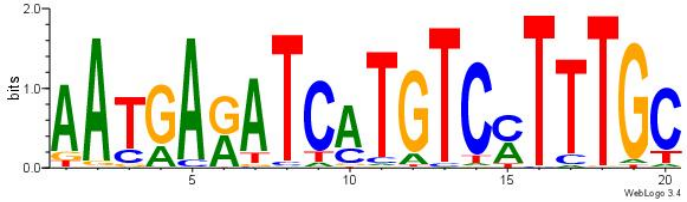

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.132117

Alignment:
CCCGAAGCTGCRYRCTCGGT
-GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

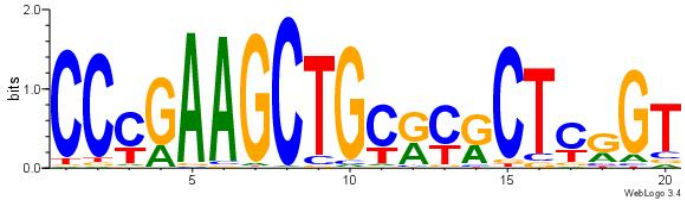

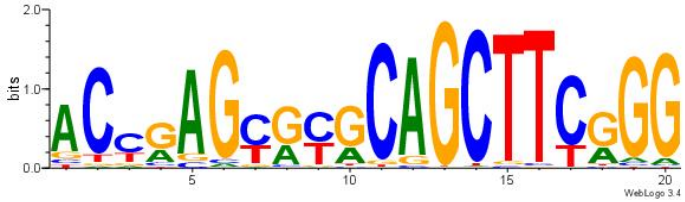

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.13353

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-GAAAAGCGCAGTATTMGGG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

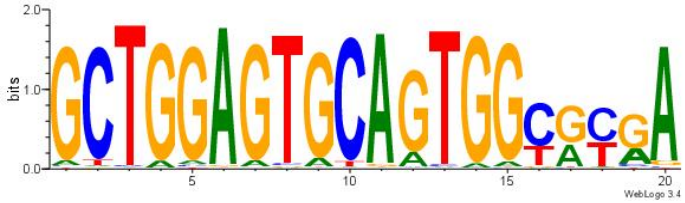

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

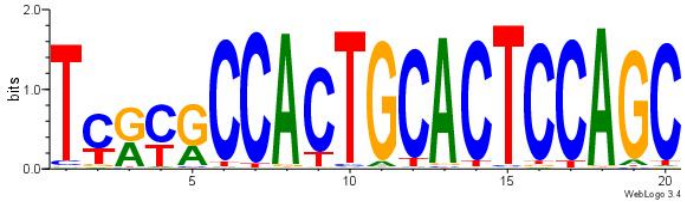

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.133924

Alignment:

```
AAAATCACAAGCATTCCTAT
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

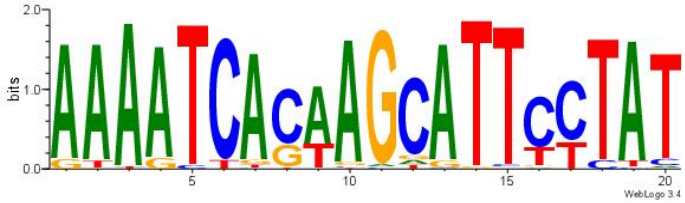

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

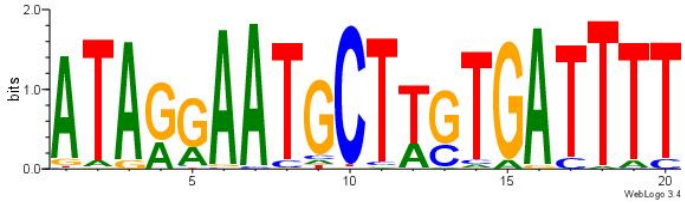

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.134327

Alignment:
AAAGTGCCGAGAKTGCAGC
GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

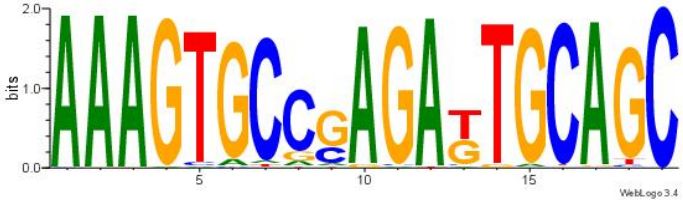

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

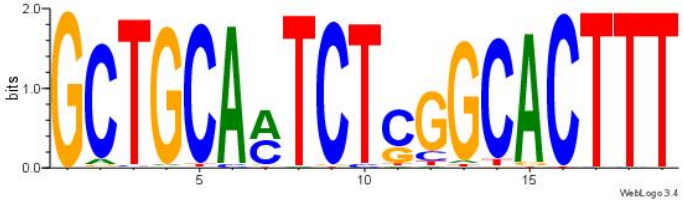

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.136233

Alignment:
ACACATCACAAAGCAGTTTC
CCCYAATACTGCGCTTTTC-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

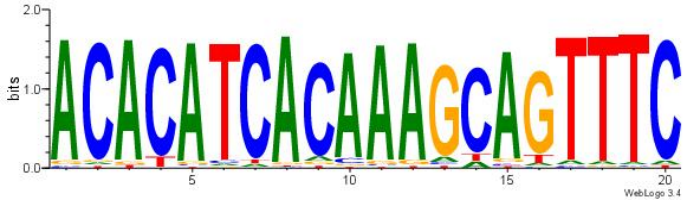

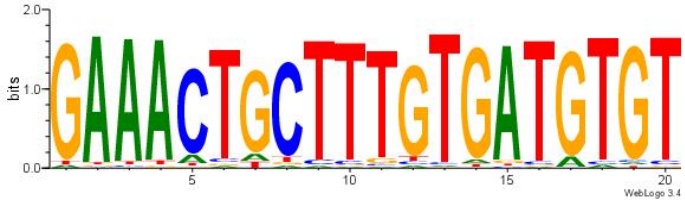

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136658

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-GAAAAGCGCAGTATTMGGG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

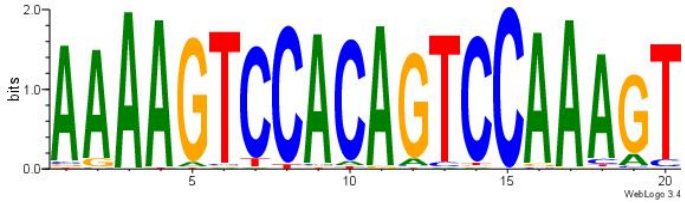

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

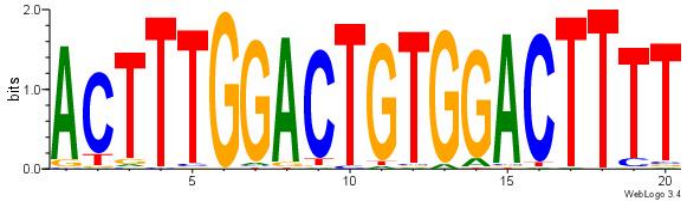

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.137231

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-GAAAAGCGCAGTATTMGGG
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

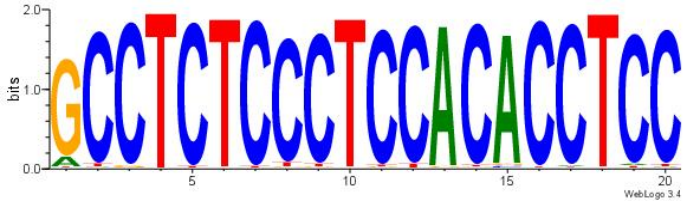

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

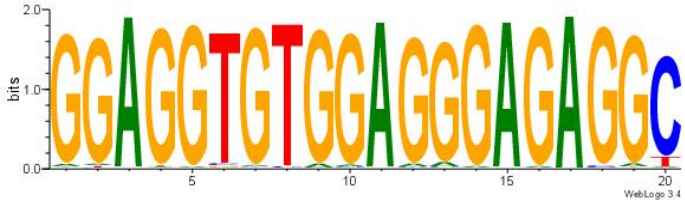

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.137561

Alignment:
KACGGGCTTAARAAACGGC
GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

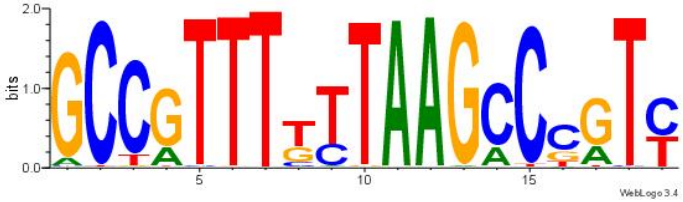

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

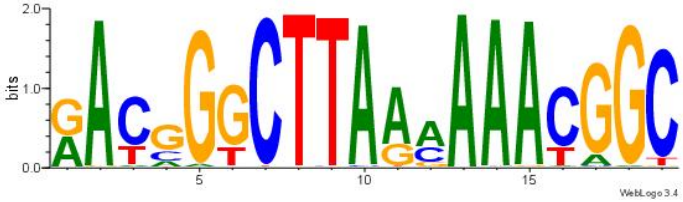

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137573

Alignment:
AAAATGTGGTAYATAYAYAC
GAAAAGCGCAGTATTMGGG-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

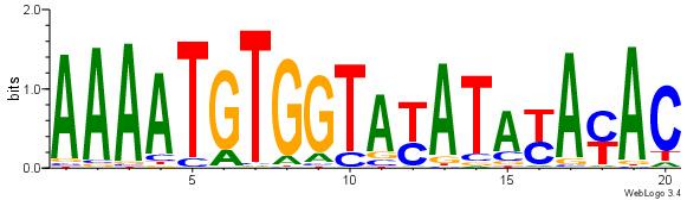

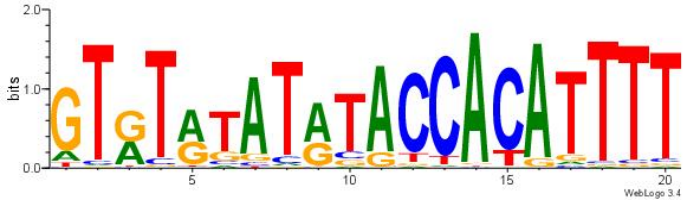

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139191

Alignment:

```
ACTCCCTAGTGAGATGAACC
CCCYAATACTGCGCTTTTC-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

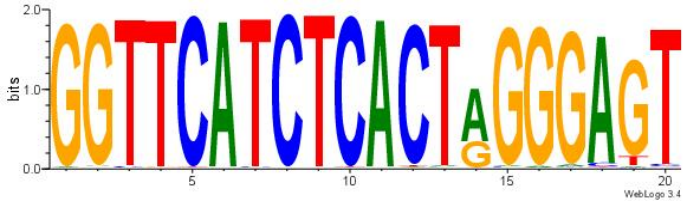

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

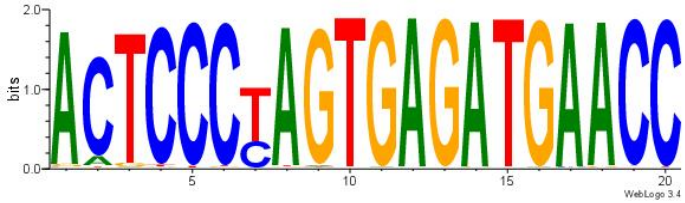

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.139525

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

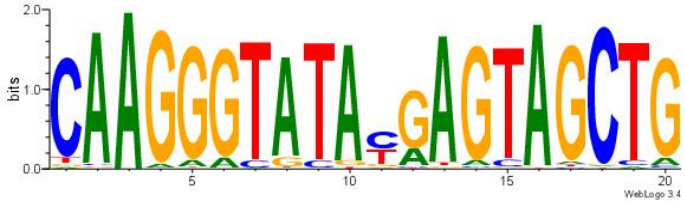

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

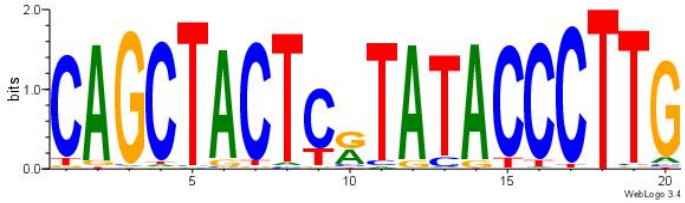

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.139835

Alignment:
AAAACCAGCAAGTTTTTAT
GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

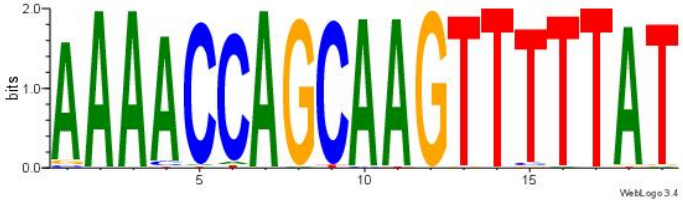

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

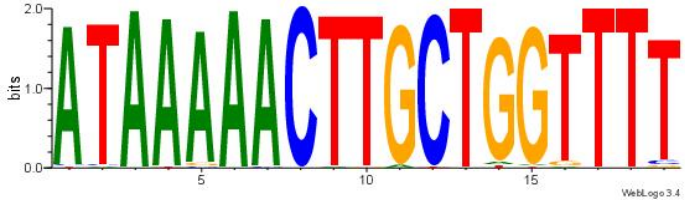

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140211

Alignment:
CCGCTGCACTGTGGGAGCCC
CCCYAATACTGCGCTTTTC-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

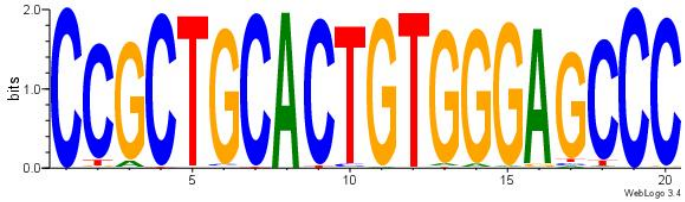

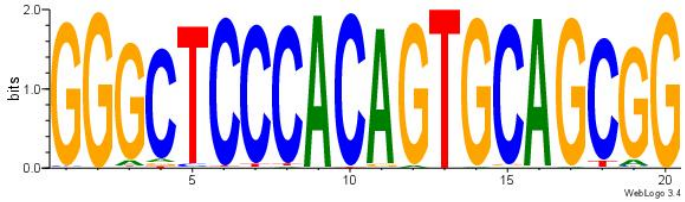

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142435

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

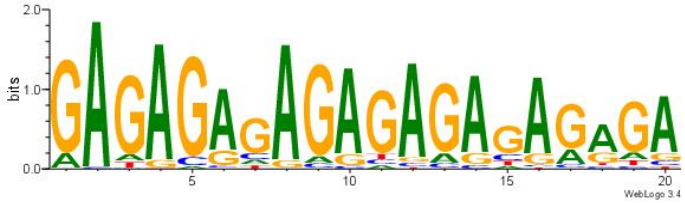

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

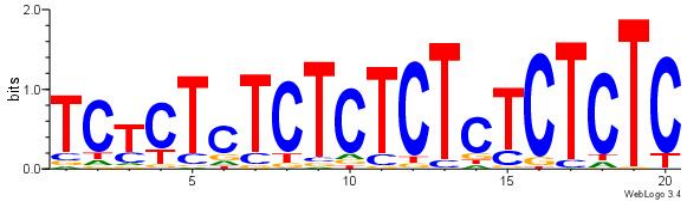

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.143804

Alignment:

```
CTCCAGKTMCATCCATGTTG
-CCCYAATACTGCGCTTTTC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

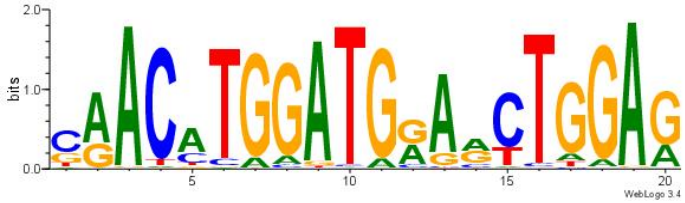

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

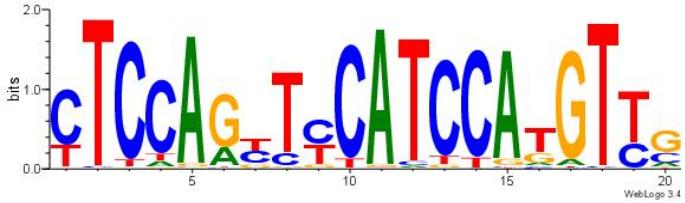

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.144657

Alignment:
CCCMKGGCACCCTCAGTCCT
CCCYAATACTGCGCTTTTC-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

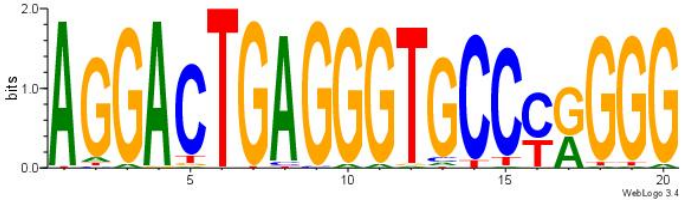

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

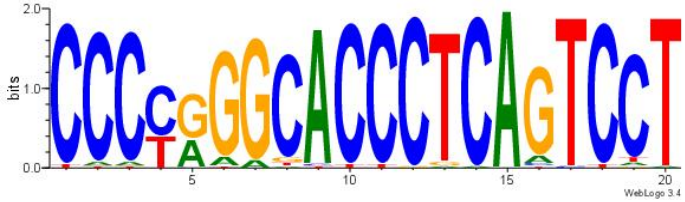

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.145786

Alignment:
TYTGTCMTTTTGTGACTGGC
-CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

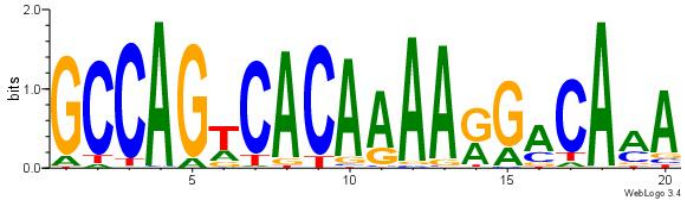

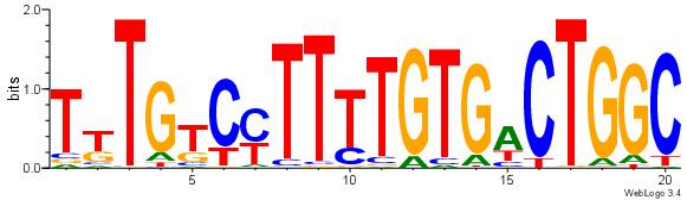

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145819

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-GAAAAGCGCAGTATTMGGG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

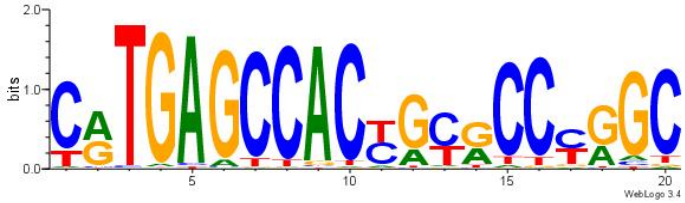

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

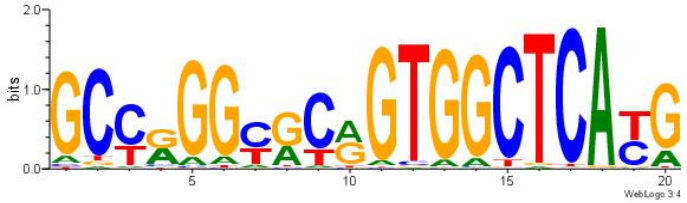

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.146128

Alignment:

```
ATTCAASATGAGATTTGGG
GAAAAGCGCAGTATTMGGG
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

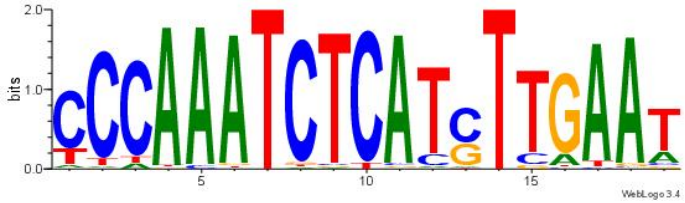

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

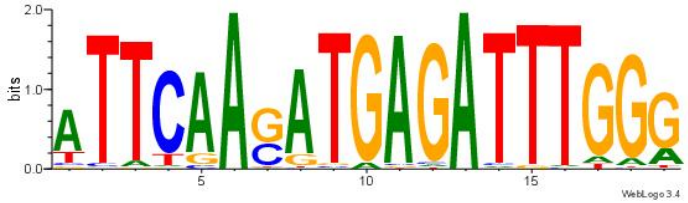

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.147699

Alignment:
CGGCGCTGMGCTCGATTTCT
CCCYAATACTGCGCTTTTC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

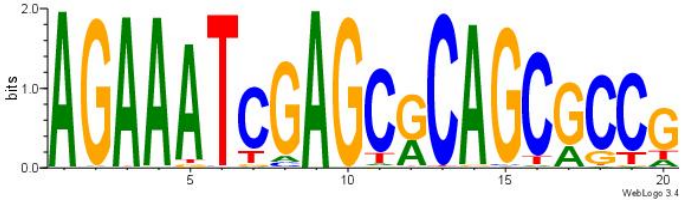

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

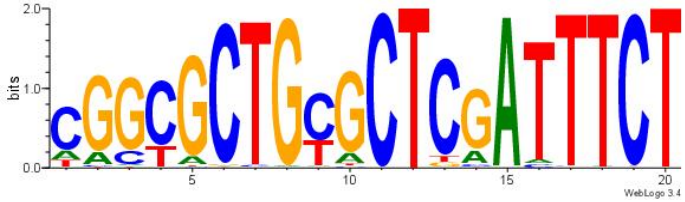

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.148015

Alignment:
ATGGCTGAATAKTATTCCAT
-GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

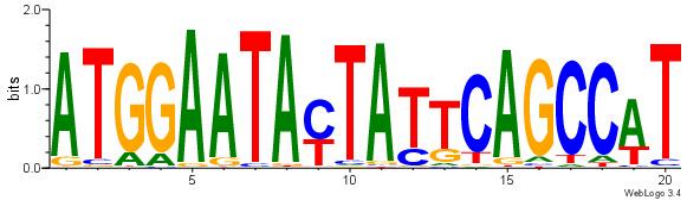

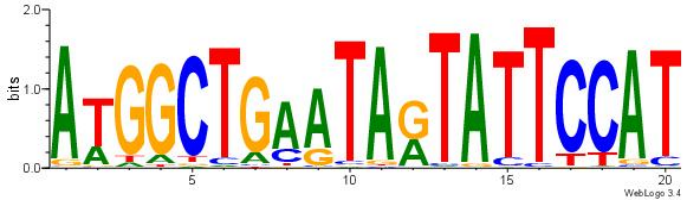

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.148084

Alignment:

```
AAAMAMMKMATGTTCTCACT
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

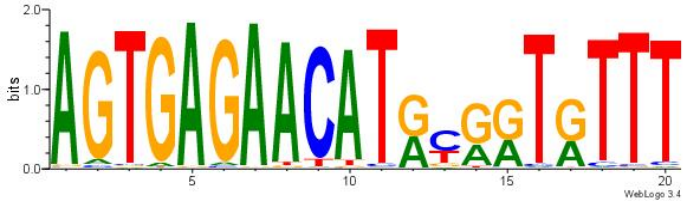

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

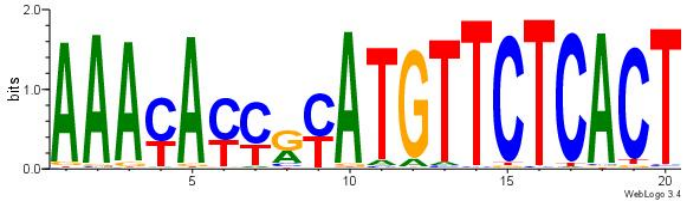

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148425

Alignment:

```
CTCATTTAATCCTCACAAC
CCCYAATACTGCGCTTTTC
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

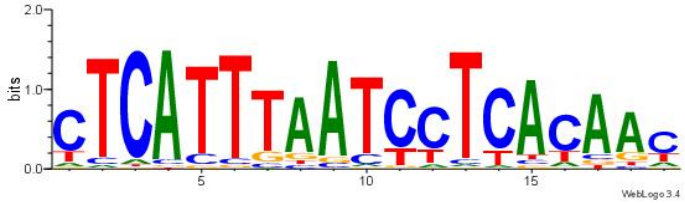

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

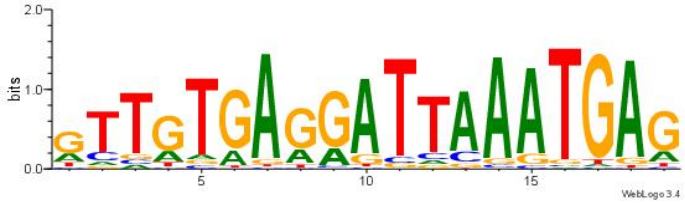

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.148575

Alignment:
GCCTCCTTGAGCTGTGGTGG
CCCYAATACTGCGCTTTTC-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

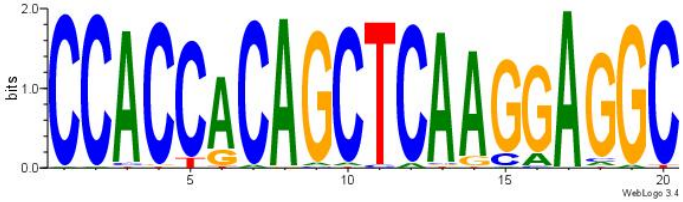

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

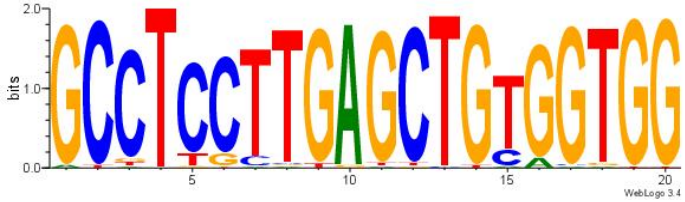

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.148595

Alignment:
ACCTGGAAAATCGGGTCACT
CCCYAATACTGCGCTTTTC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

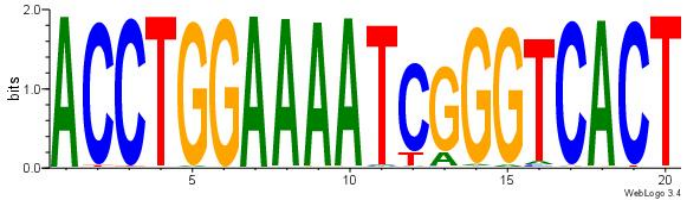

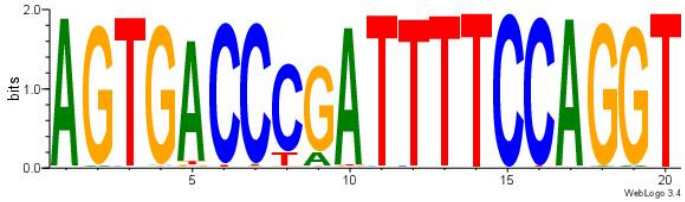

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.149116

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-CCCYAATACTGCGCTTTTC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

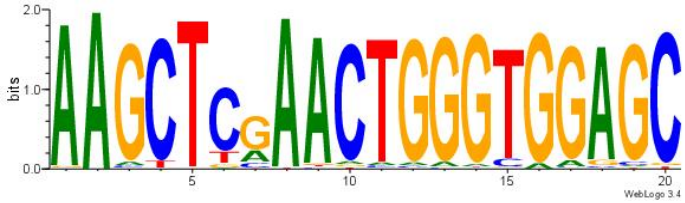

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

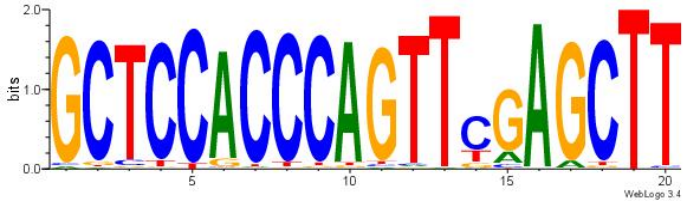

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.149573

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

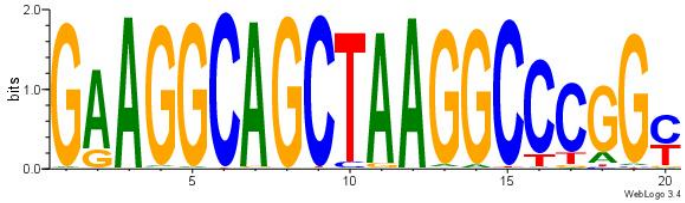

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

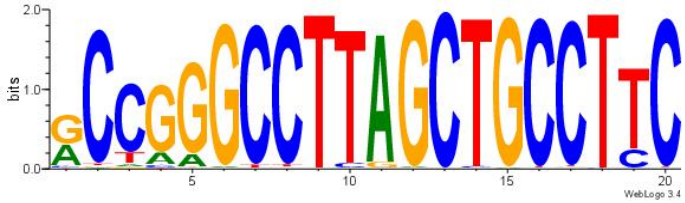

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.149738

Alignment:
GACAGGAGATTAACACTGAG
GAAAAGCGCAGTATTMGGG-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

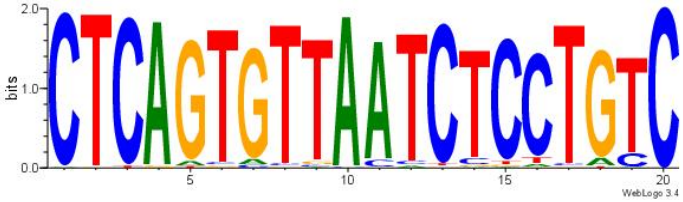

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

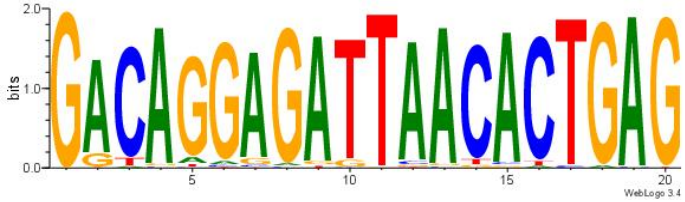

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.149987

Alignment:
CCCATGCAAGTCYRAAATCC
-CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

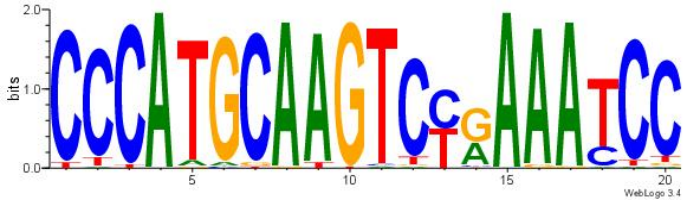

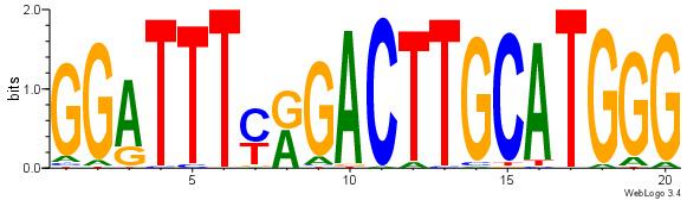

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.150313

Alignment:

```
GTGCCAGGCACTGTKCTARG
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

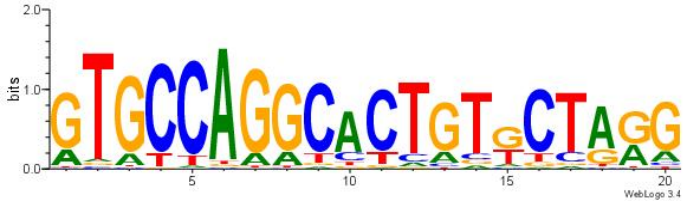

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

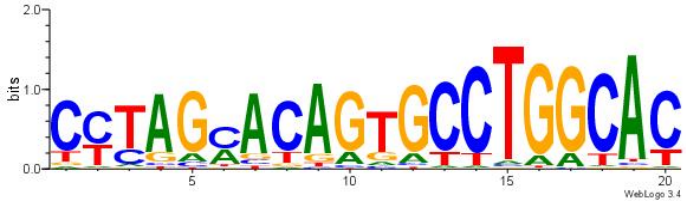

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.150338

Alignment:

```
AGTAGGTGCTCARTAAATRB
GAAAAGCGCAGTATTMGGG-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

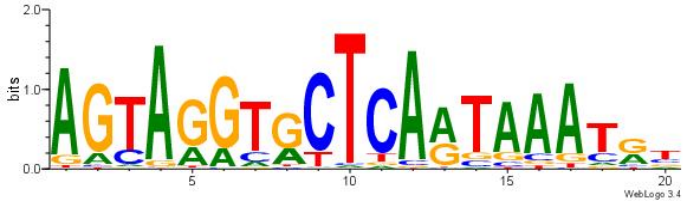

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

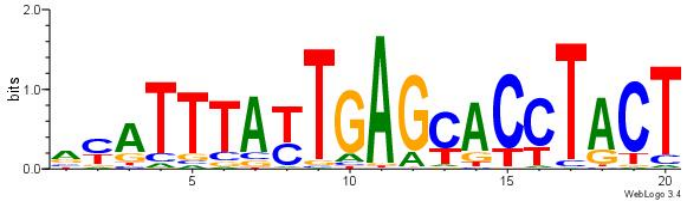

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.15049

Alignment:
AGGTCCTTCAGGAGGTATTC
-CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

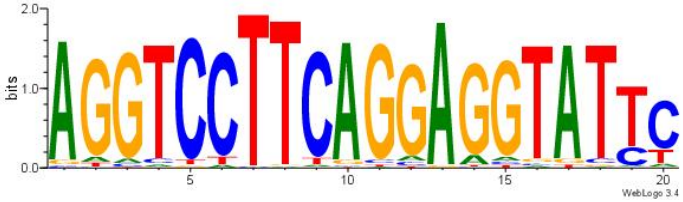

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

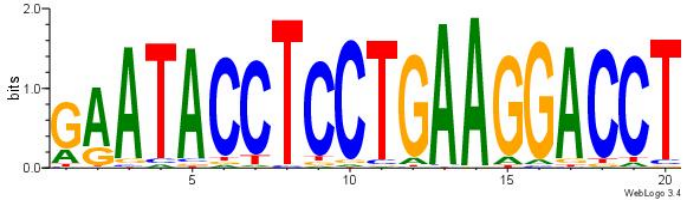

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.150847

Alignment:
MGTCTMKCTCTGTKGCCCAG
-GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

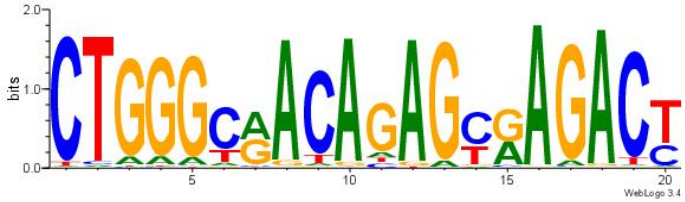

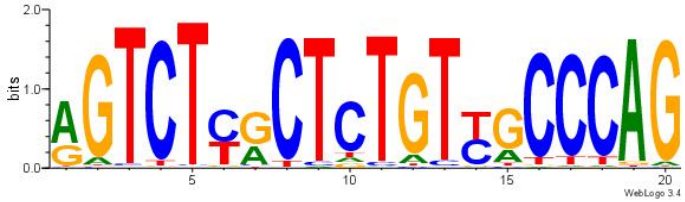

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.151031

Alignment:

```
CACCAGACTCAGGAGCCCAG
-GAAAAGCGCAGTATTMGGG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

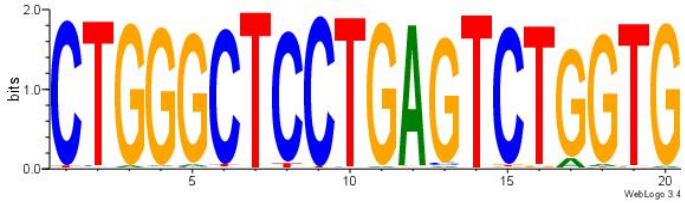

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

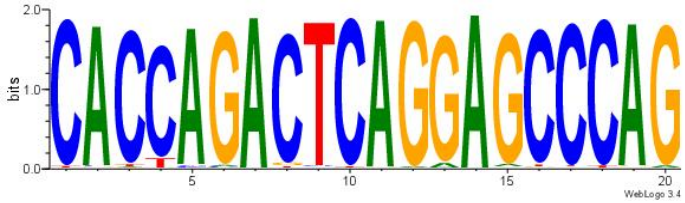

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.151147

Alignment:

```
MGGGATATAATCTCCTGGTG
-CCCYAATACTGCGCTTTTC
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

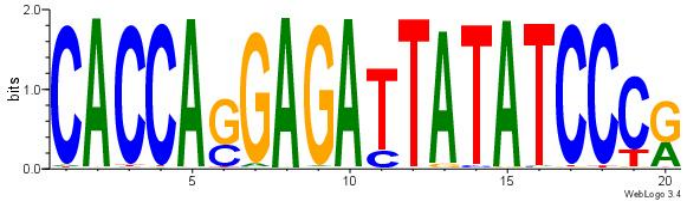

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

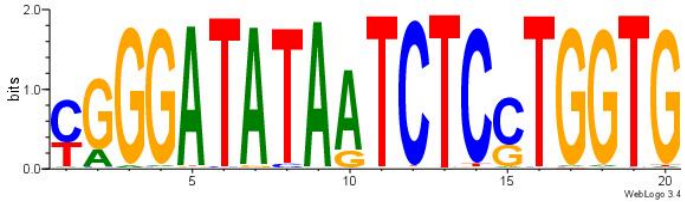

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.151711

Alignment:
TAGATAATAGCTCCAGCTTT
-CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

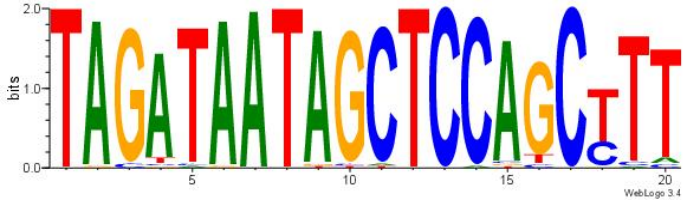

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

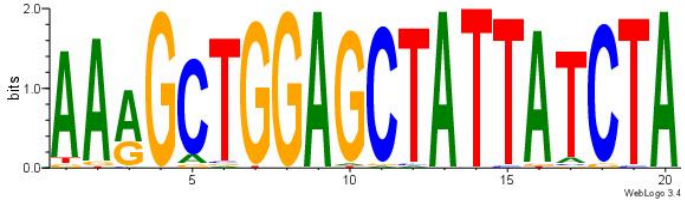

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.152268

Alignment:
AGGAACAGCTCCRGTCTAC
CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

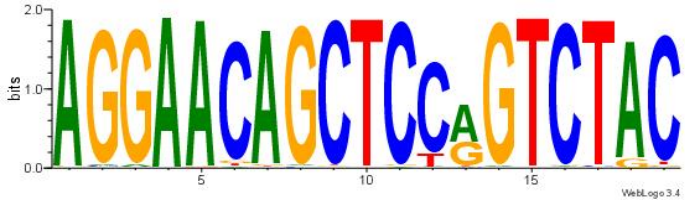

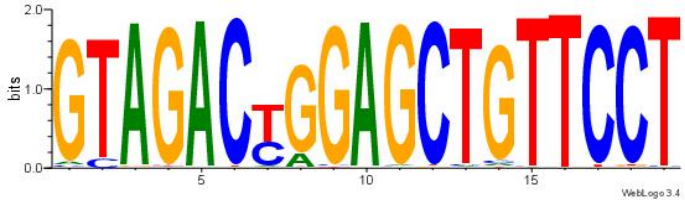

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.152423

Alignment:

```
MCCYGGCWSMGASGSTCCT
CCCYAATACTGCGCTTTTC
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

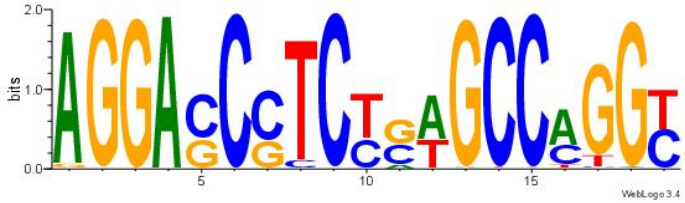

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

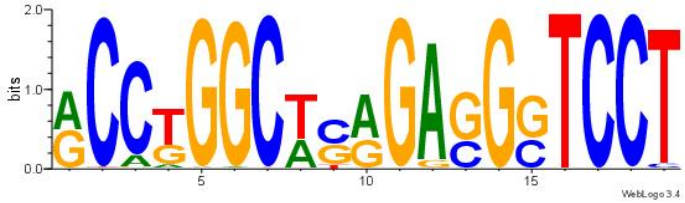

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.152592

Alignment:

```
CGCCCATCGTCTGGGATGT
CCCYAATACTGCGCTTTTC
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

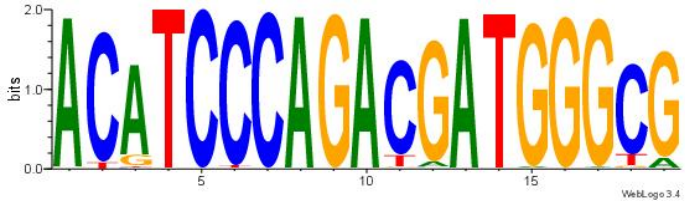

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

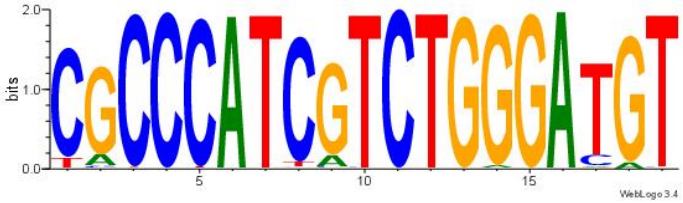

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.153129

Alignment:
GGGTCAGGGAGTTCCCTTTC
-CCCYAATACTGCGCTTTTC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

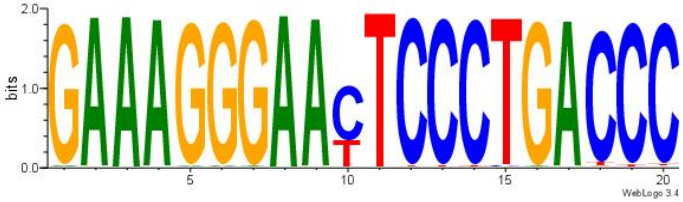

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

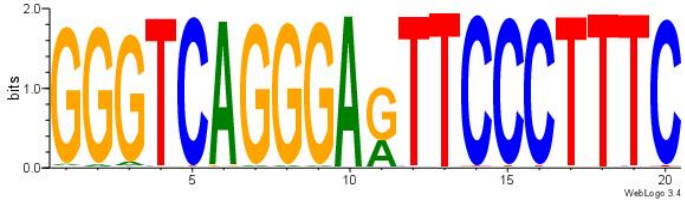

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.155173

Alignment:
TAMGACCTCAGGTCCTCAG
GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

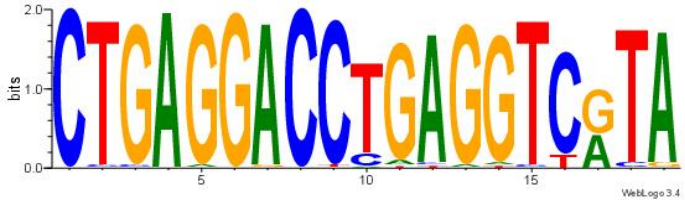

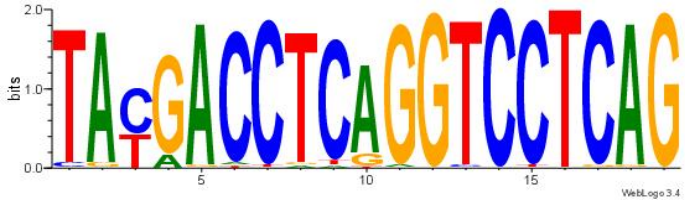

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.155686

Alignment:
GGCAATGCCTCGCCCTGCTT
GAAAAGCGCAGTATTMGGG-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

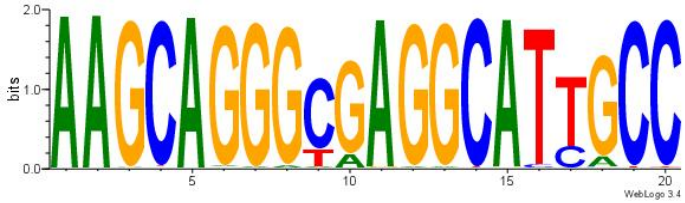

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

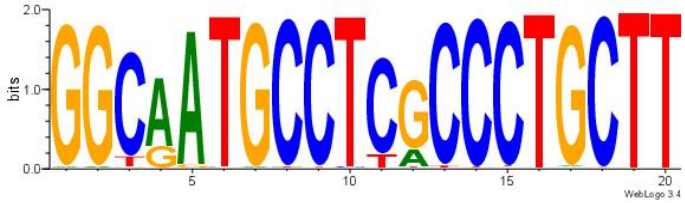

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.156523

Alignment:

```
AATCAACCCTGGYRATCAAT
CCCYAATACTGCGCTTTTC-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

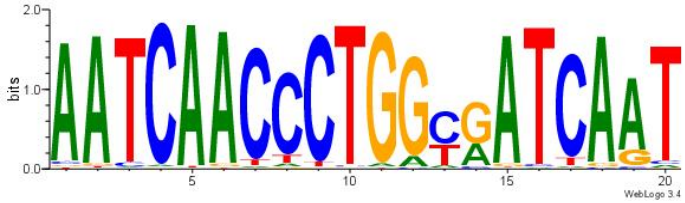

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

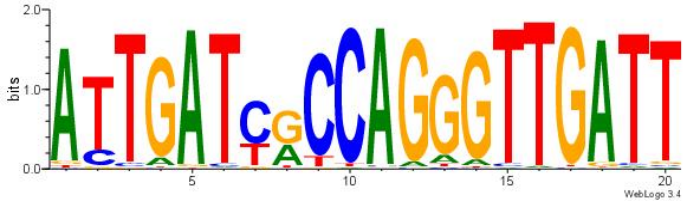

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.156583

Alignment:
CAAASCKGTCATAGGCCAT
GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

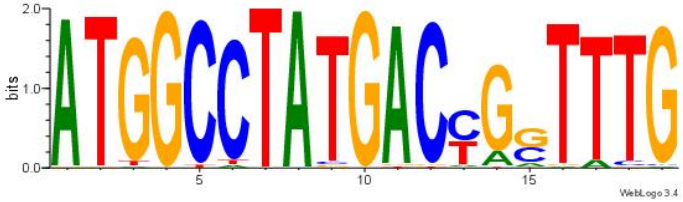

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

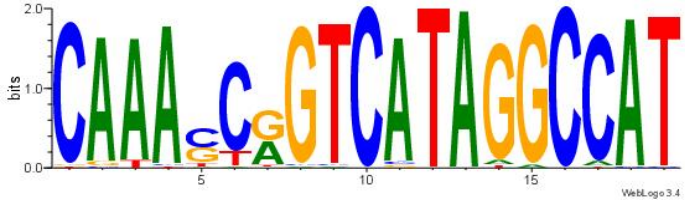

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.156827

Alignment:
TAGTGGTGATTTSTGAGAT
GAAAAGCGCAGTATTMGGG

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

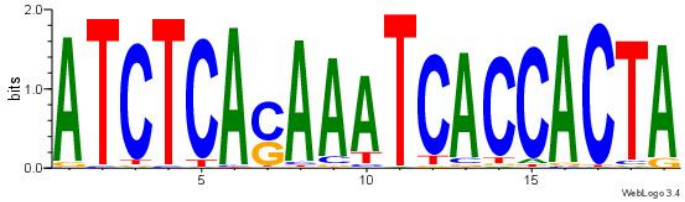

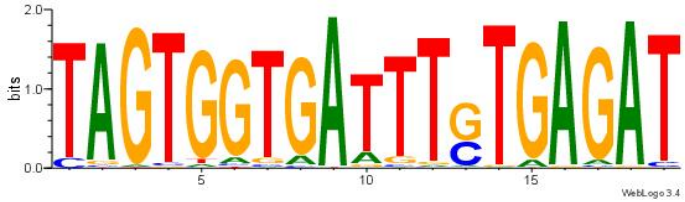

Dataset #: 1 **Motif ID: 19** **Motif name: Motif 19**

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

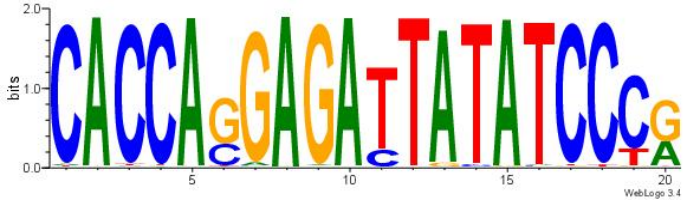

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

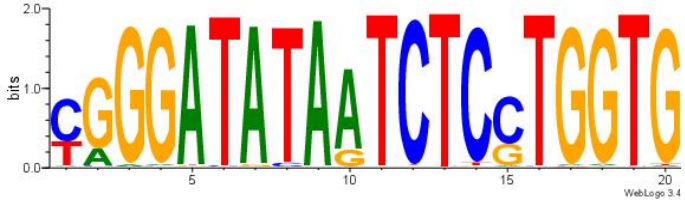

Best Matches for Motif ID 19 (Highest to Lowest)

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.11753

Alignment:

AATGAKATCATGTCYTTTGC
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

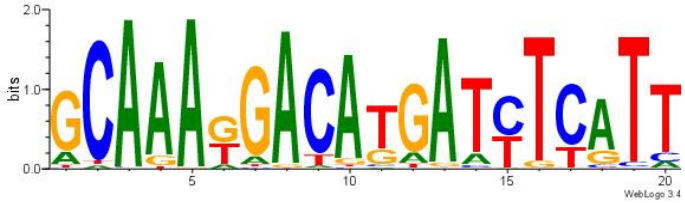

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

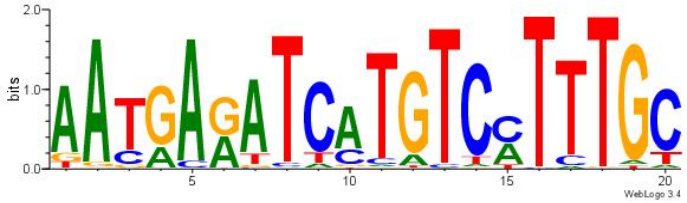

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126684

Alignment:
AGTGAGAACATRYRRTRTTT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

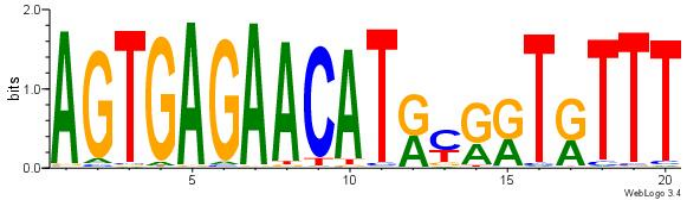

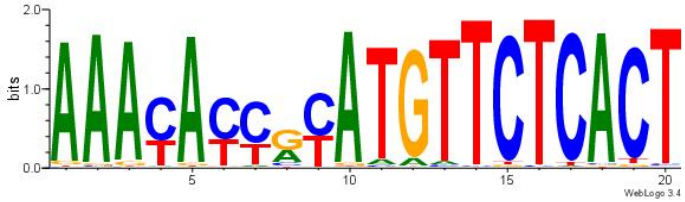

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137442

Alignment:

```
ATGTAACCAAAYACCACCTG
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

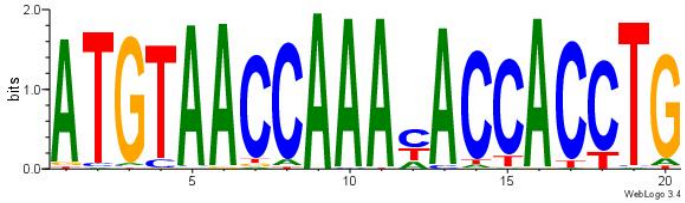

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

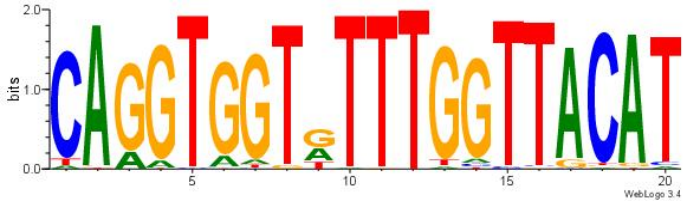

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137843

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

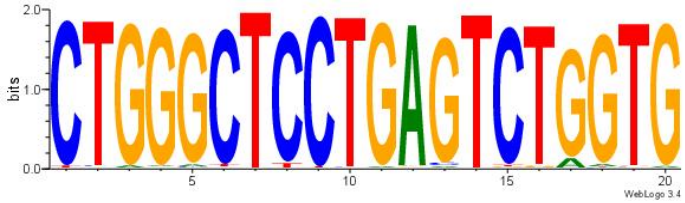

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

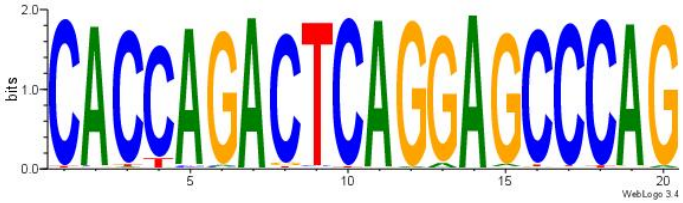

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139054

Alignment:
CTCCAGKTMCATCCATGTTG
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

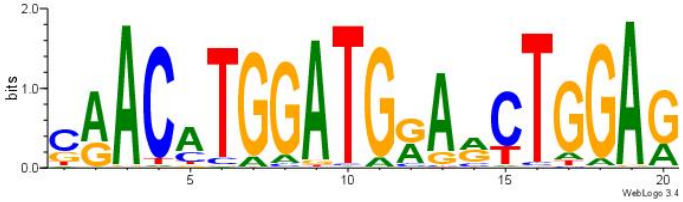

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

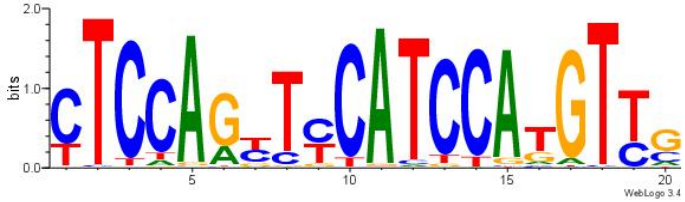

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139653

Alignment:
GTGGCCCTCTTCTCACAGCT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

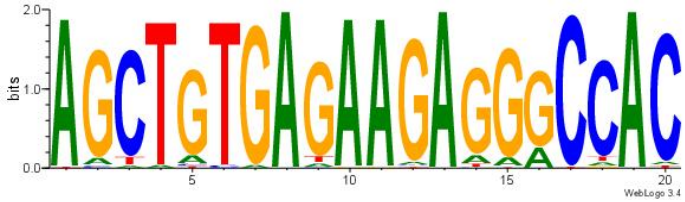

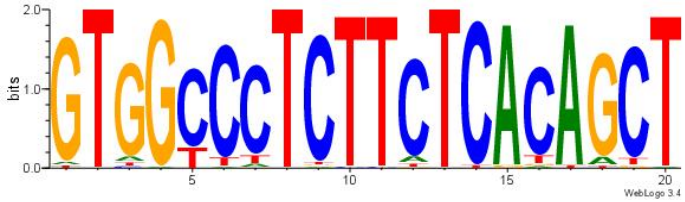

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142698

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

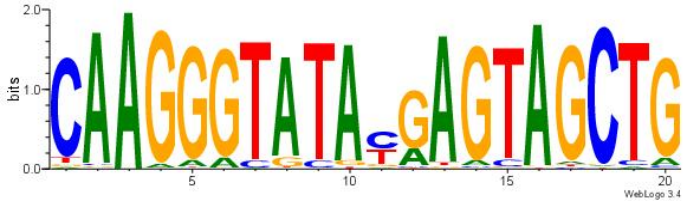

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

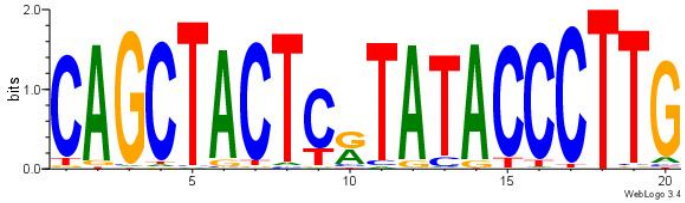

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143846

Alignment:

```
AAGCAGGGCGAGGCATTGCC
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

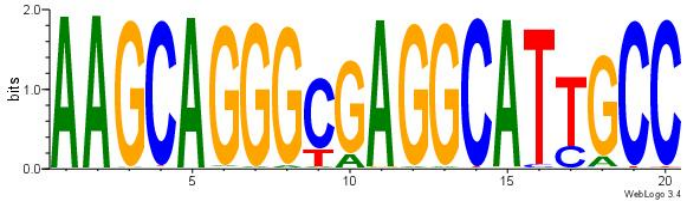

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

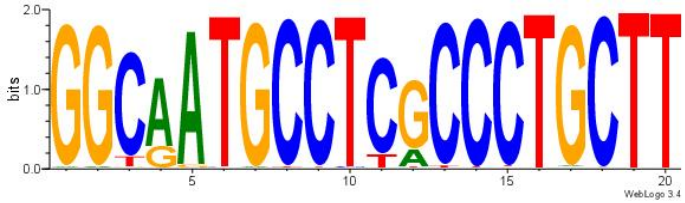

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145009

Alignment:
ATTGATMKCCAGGGTTGATT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

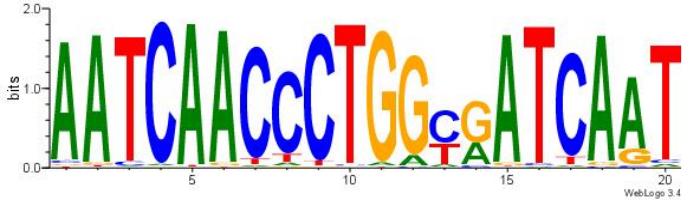

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

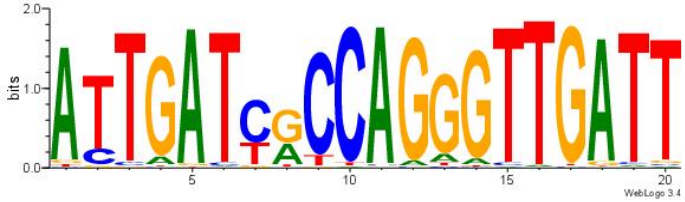

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145012

Alignment:
AGGACTGAGGGTGCCYRGGG
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

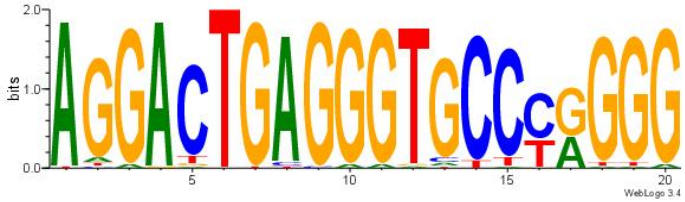

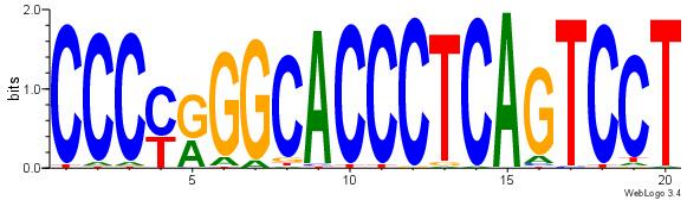

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145192

Alignment:
MTCCTCCAGACCCCAGAATG
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

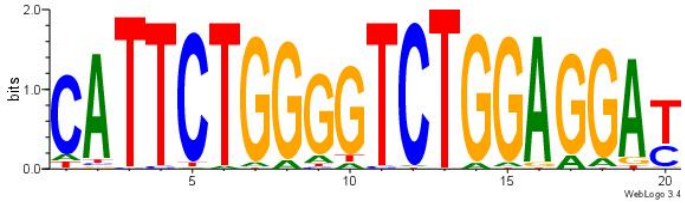

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

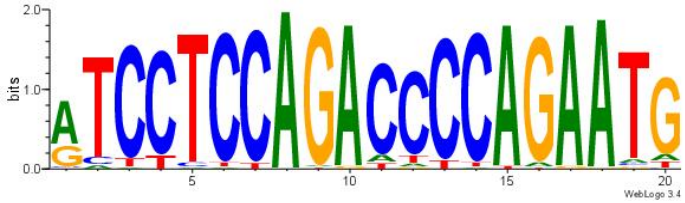

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146984

Alignment:

```
AGTGACCCGATTTTCCAGGT
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

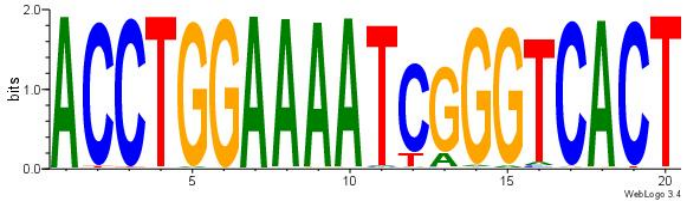

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

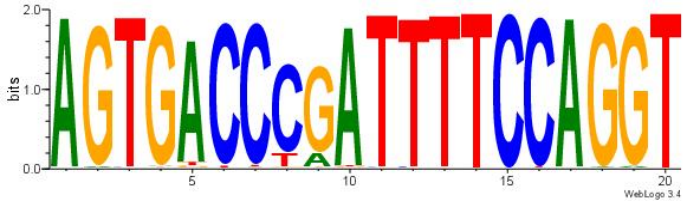

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149085

Alignment:
AAGTCCAAGATCAAGGTGYY
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

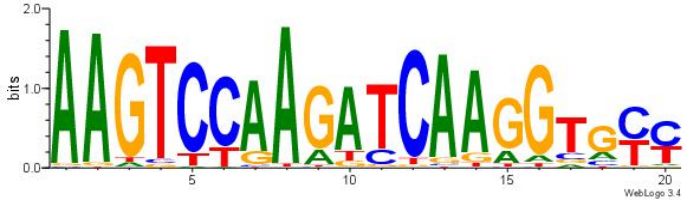

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

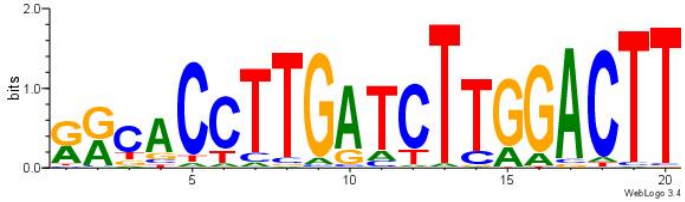

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149519

Alignment:
GGATTTMKGACTTGCATGGG
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

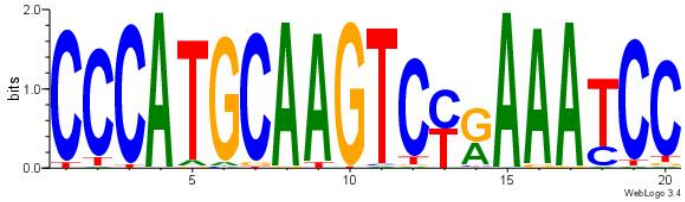

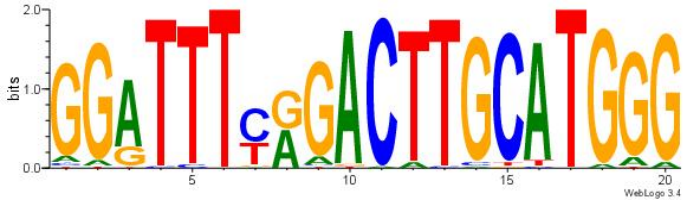

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149941

Alignment:
GTKTMTATMTACCACATTTT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

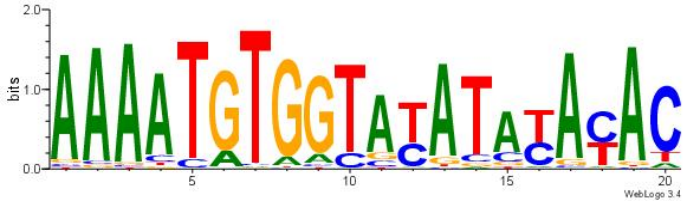

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

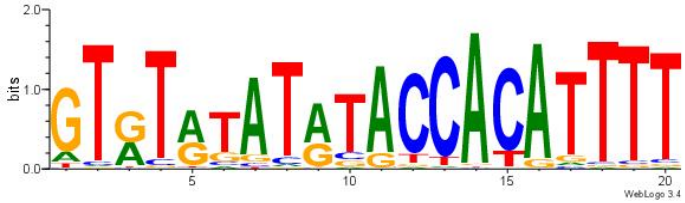

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152664

Alignment:

```
CAAGTTGACACATAAAATTA
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

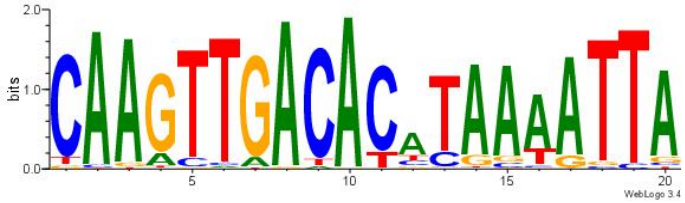

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

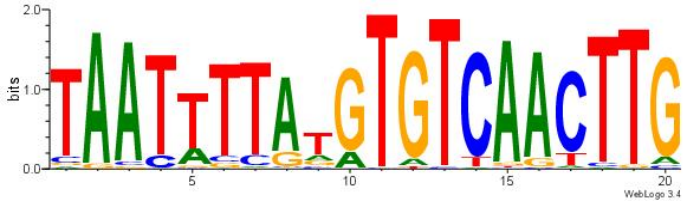

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153598

Alignment:
AAGGAACAAACTCCRGACAC
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

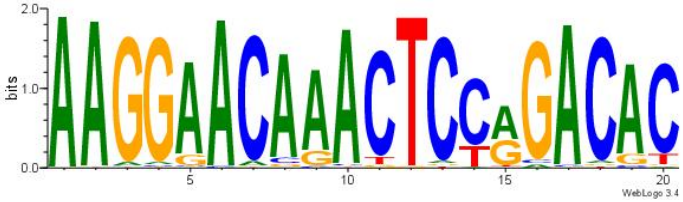

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

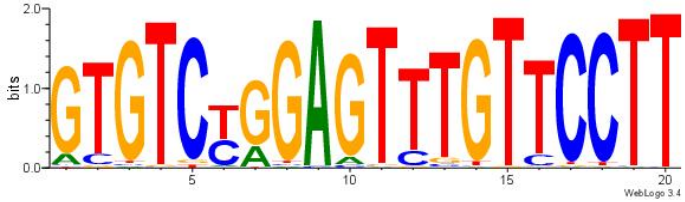

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154253

Alignment:
AGGTTTGTTACATAGGTAWA
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

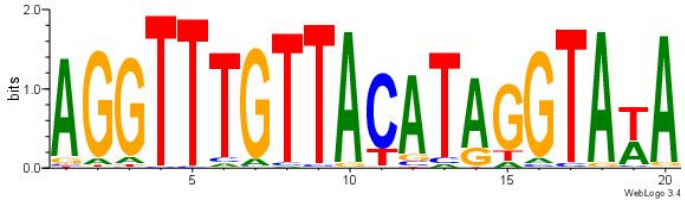

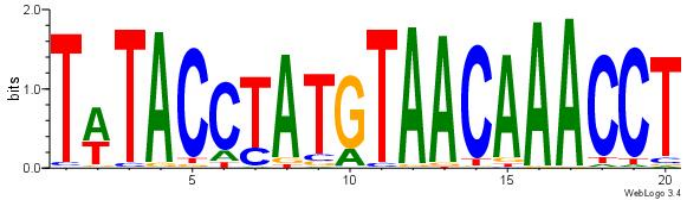

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154402

Alignment:
ACCGAGMKMGCAGCTTCGGG
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

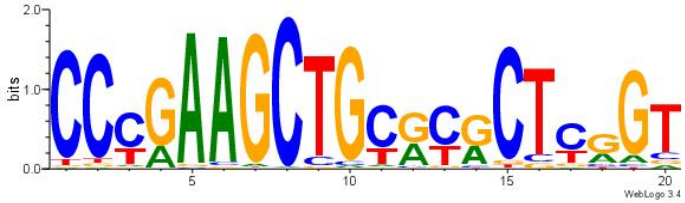

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

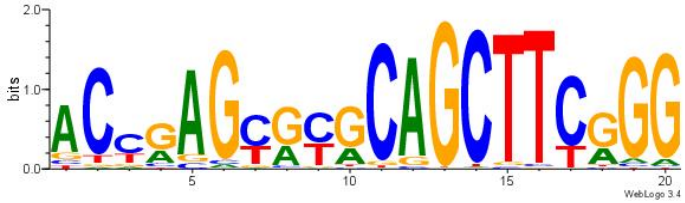

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155283

Alignment:

```
GCACATGTAYCCYAGAACTT
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

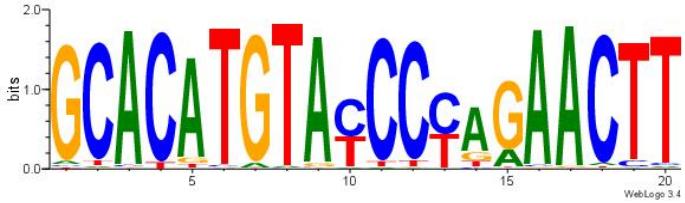

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

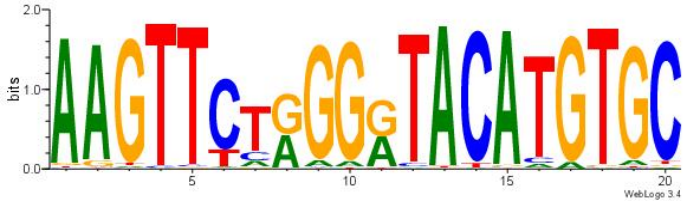

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155291

Alignment:
CTAGACATAAAGGTTCTCCA
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

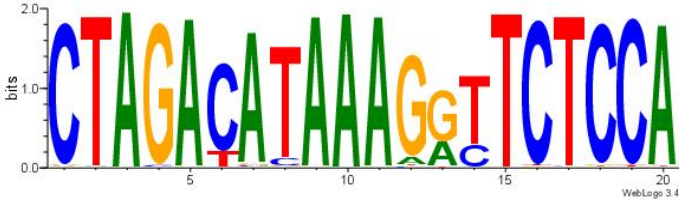

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

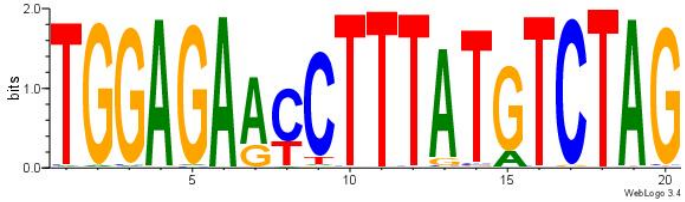

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155349

Alignment:
AAAGCTGGAGCTATTATCTA
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

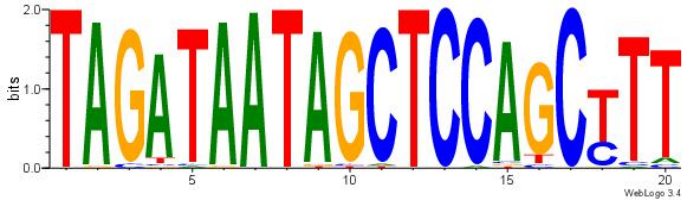

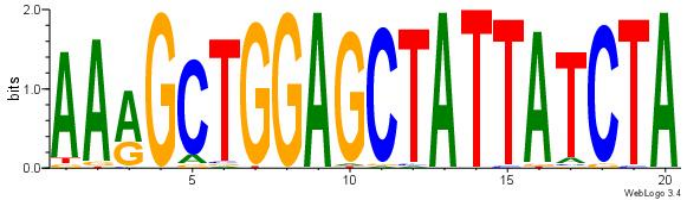

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156576

Alignment:

```
CAAGCCTSKGCAATGGCAGG
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

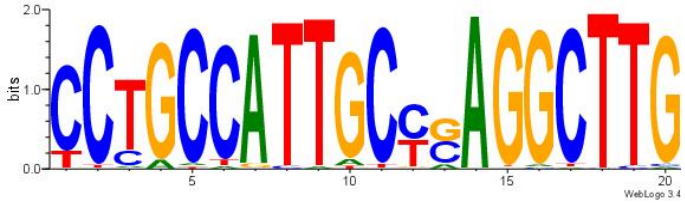

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

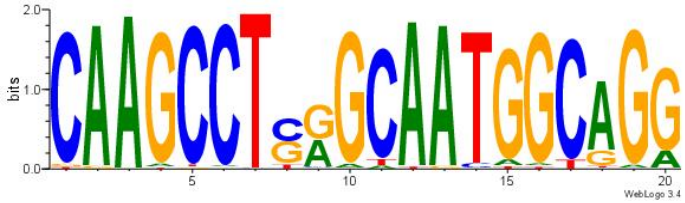

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15772

Alignment:

```
CRTGAGCCACYGYRCCYGGC
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

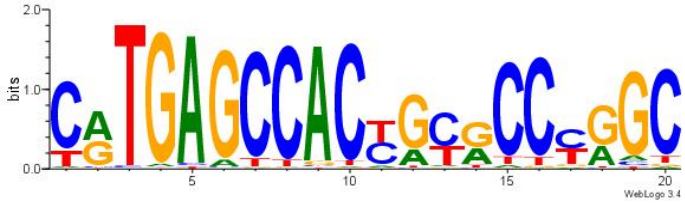

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

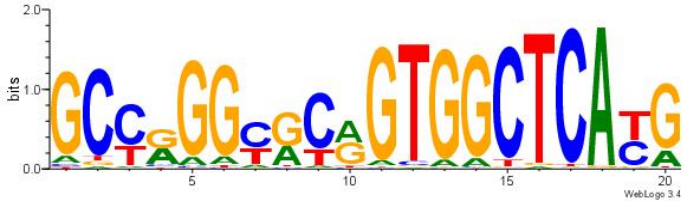

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158267

Alignment:
ACCCAATWTGTAGTCTTTTA
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

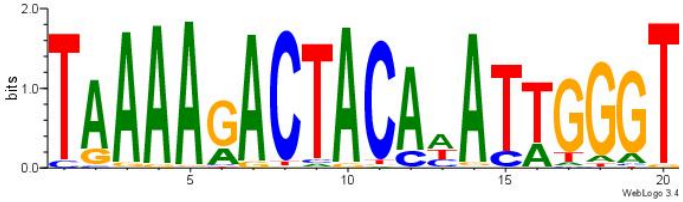

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

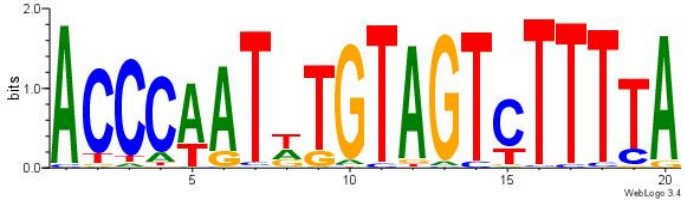

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158392

Alignment:
CGTCGCTCACGCTGGGAGCT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

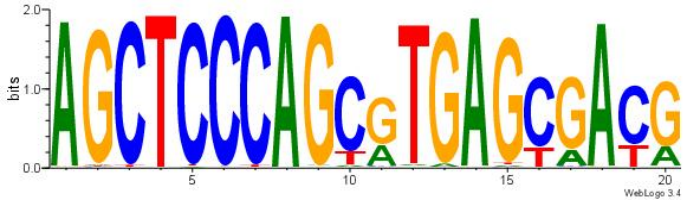

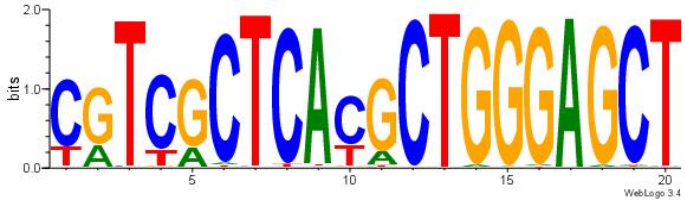

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158398

Alignment:

GACTGGCAGGCAGCTCCACC
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

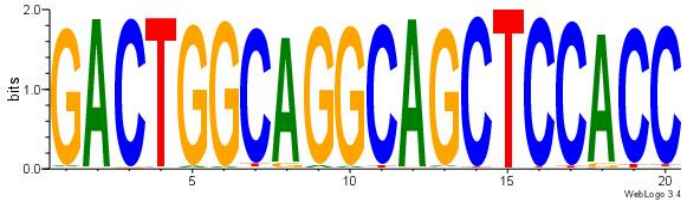

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

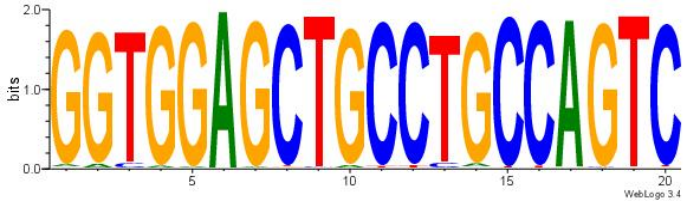

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158863

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

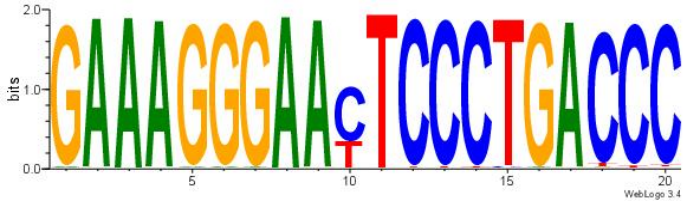

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

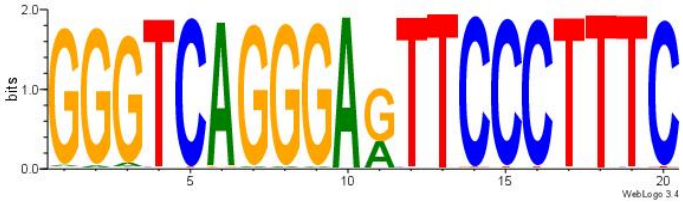

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159058

Alignment:
ATTGGTGTATTTACAATCCC
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

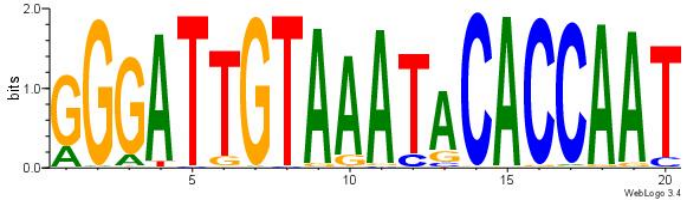

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.159189

Alignment:
GGGCTCCCACAGTGCAGCGG
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

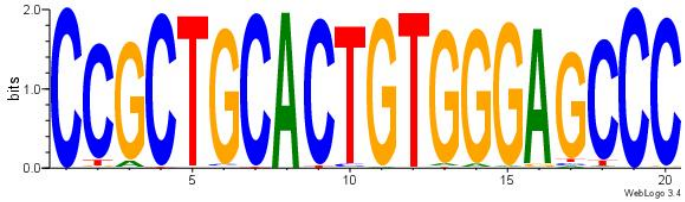

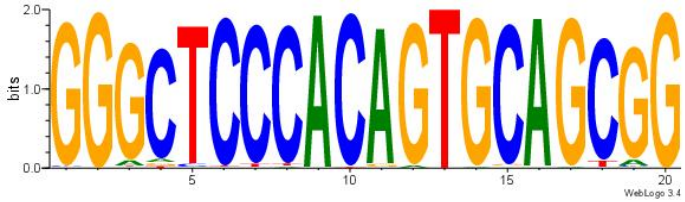

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160126

Alignment:
AACAACASACACTGGGGCCT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

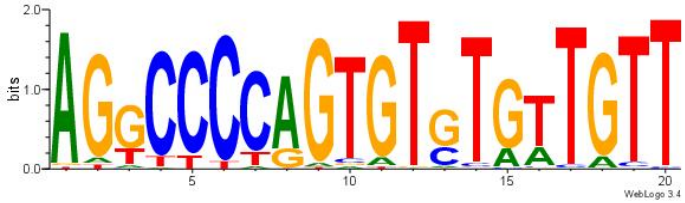

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

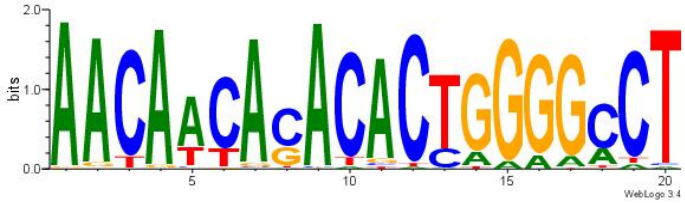

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160651

Alignment:

```
ATGGCTGAATAKTATTCCAT
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

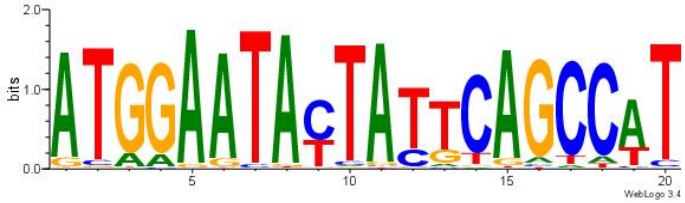

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

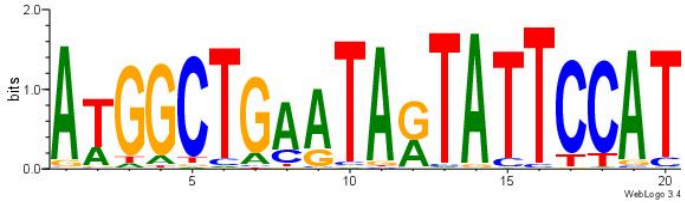

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160882

Alignment:
MGTCTMKCTCTGTKGCCCAG
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

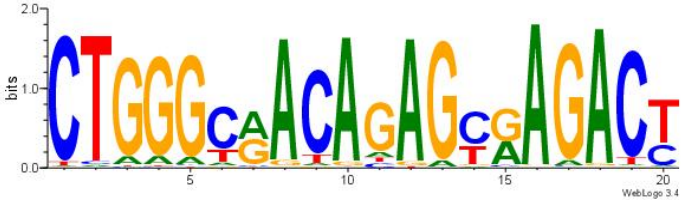

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

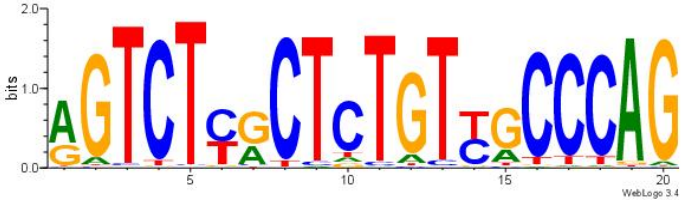

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.161967

Alignment:
AGAAATCGAGCRCAGCGCCG
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

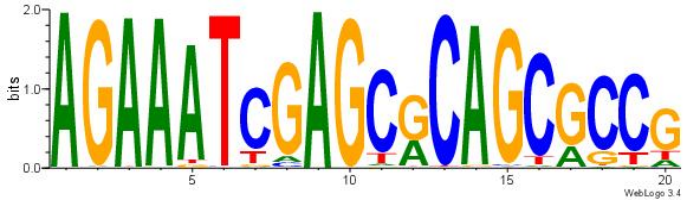

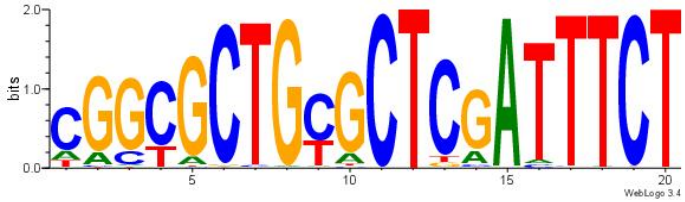

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162755

Alignment:
AWTKKTGGTTKCCAGKGGCT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

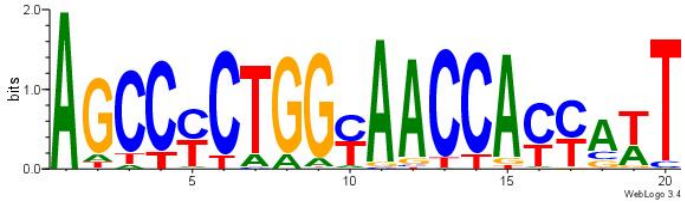

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

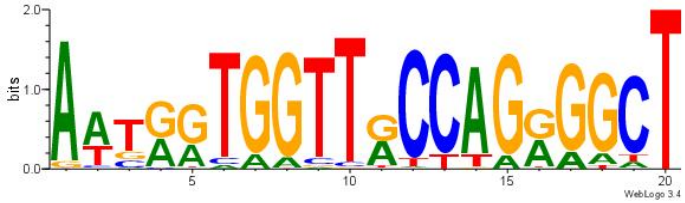

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162782

Alignment:

CTCAGTGTTAATCTCCTGTC
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

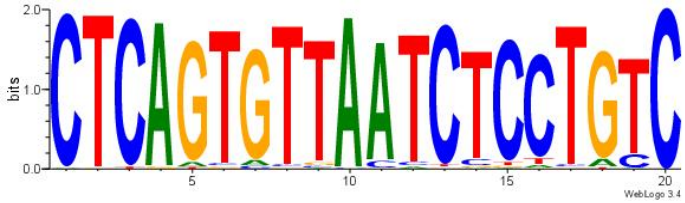

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

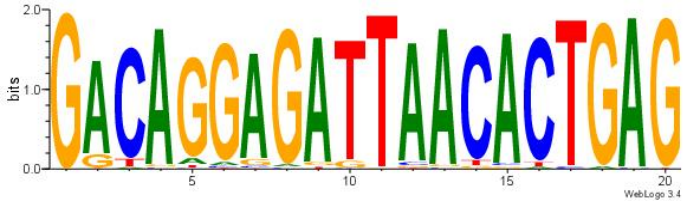

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.162993

Alignment:
GGGAGGTGTCTCCCAGTCAG
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

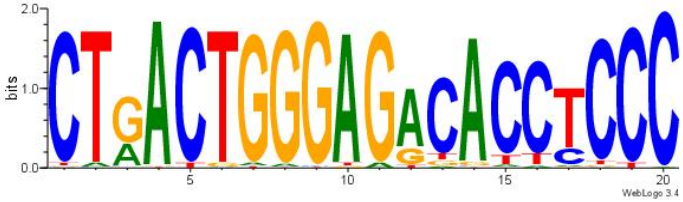

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

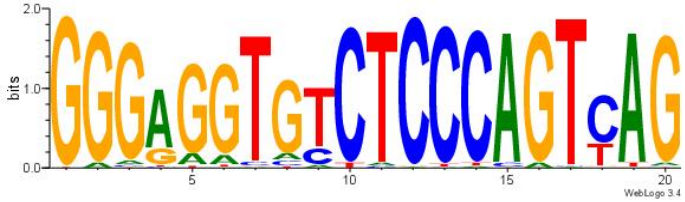

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.163391

Alignment:
AGGTCCTTCAGGAGGTATTC
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

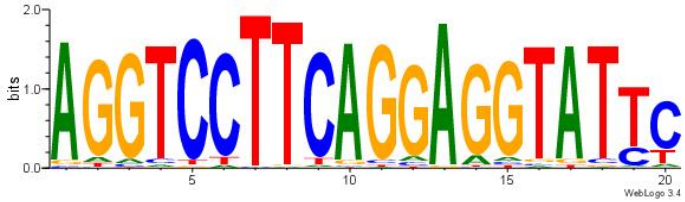

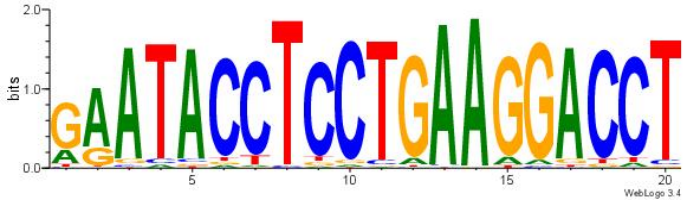

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16389

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
MGGGATATAATCTCCTGGTG
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

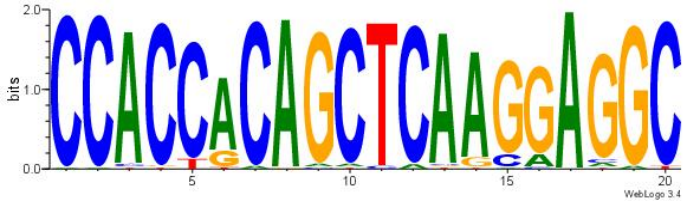

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

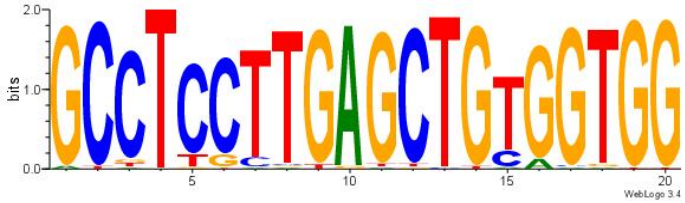

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163987

Alignment:
GTGCCAGGCACTGTKCTARG
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

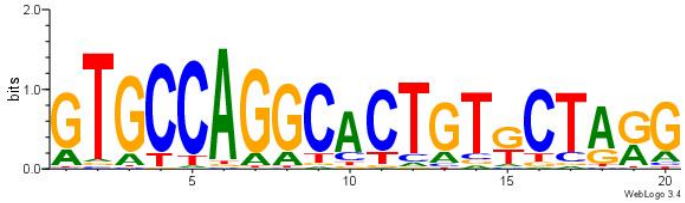

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

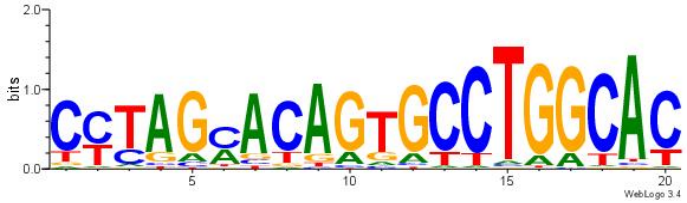

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.165229

Alignment:
TCCAAATGGGAGAAATTGGC
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

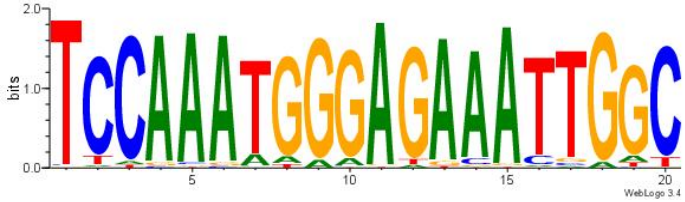

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

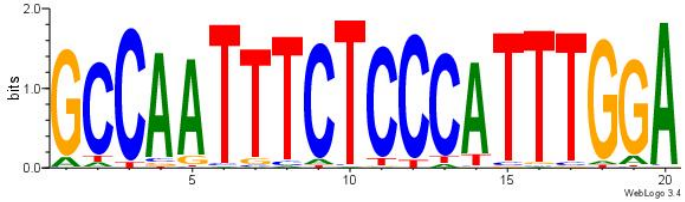

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166401

Alignment:
GCCAGTCACAAAARGACAMA
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

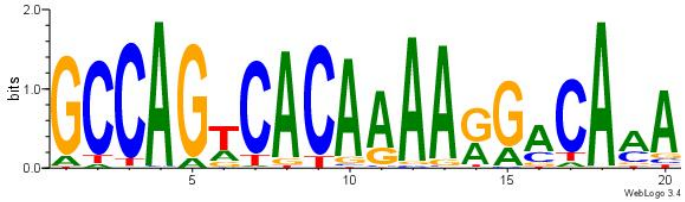

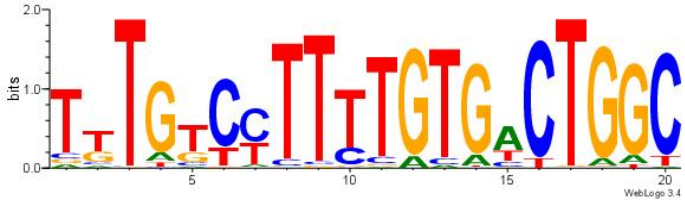

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167328

Alignment:

```
TTCAMTCATGATTTGGCTCT
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

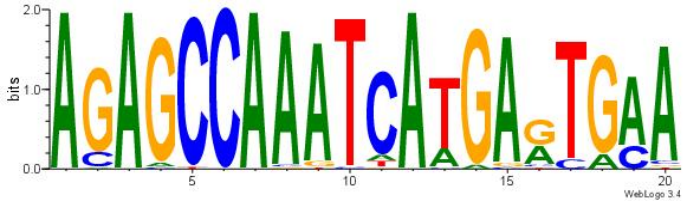

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

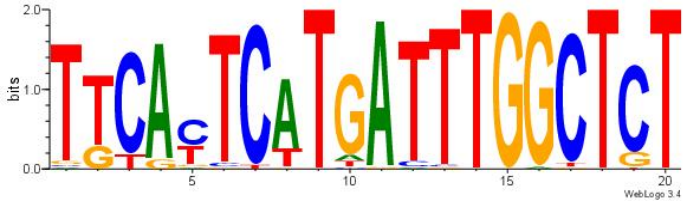

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167388

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

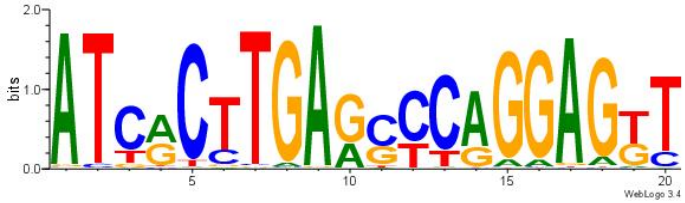

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

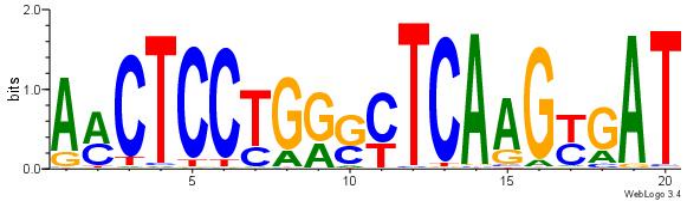

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.167424

Alignment:
ATGGACAYTTRGGTTGHTTC
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

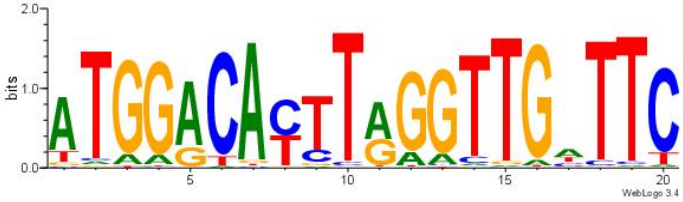

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

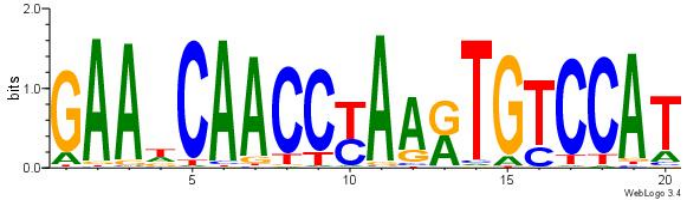

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.167813

Alignment:
AAGCTGAGGGAGCCGGCTCC
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

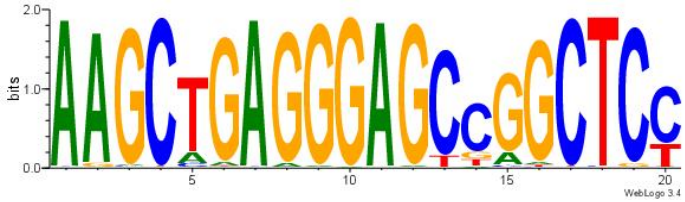

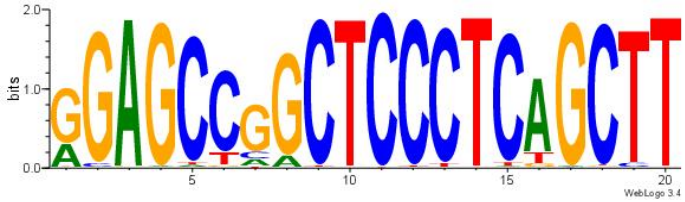

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168252

Alignment:
ATAGGAATGCTTGTGATTTT
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

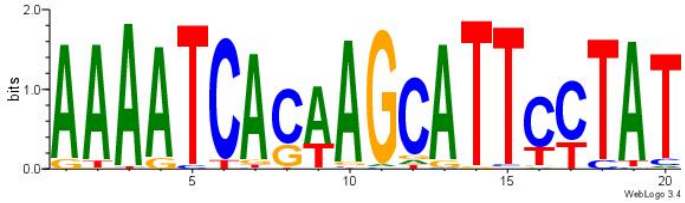

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

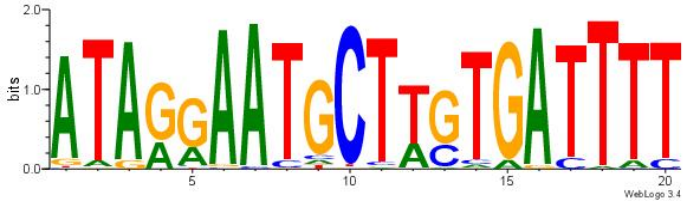

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168403

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
CACCAGGAGATTATATCCCR
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

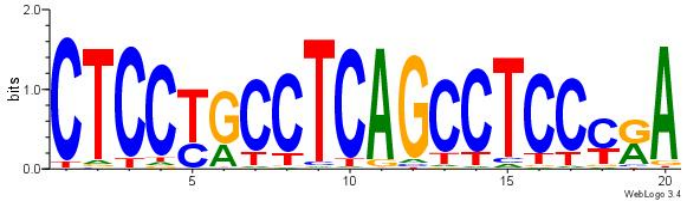

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

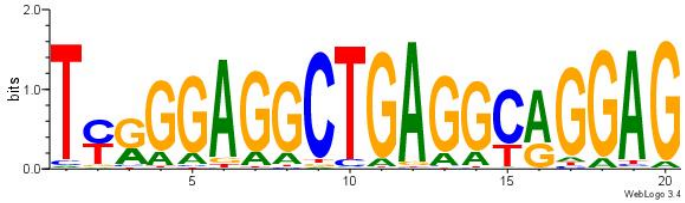

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.168773

Alignment:
CTGGGTCCCCCAGCAGTGCC
MGGGATATAATCTCCTGGTG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

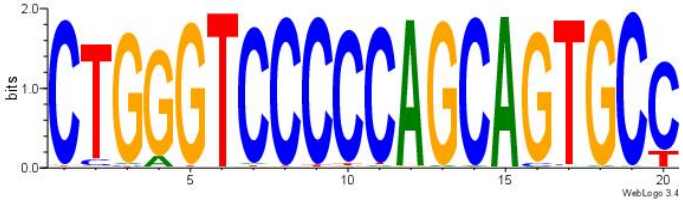

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

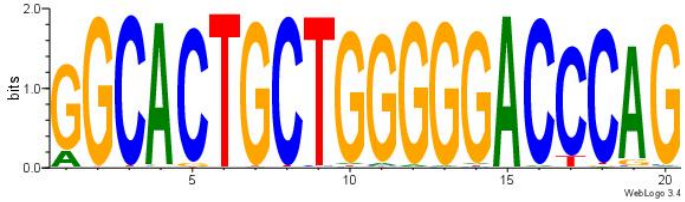

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.168904

Alignment:
GAGAGAGAGAGAGAGAGAGA
CACCAGGAGATTATATCCCR

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

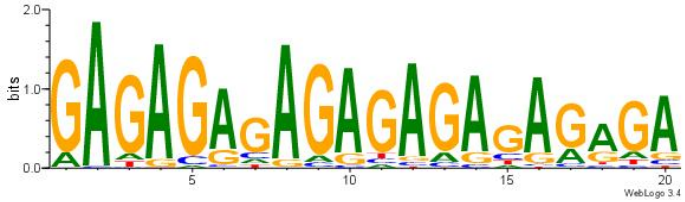

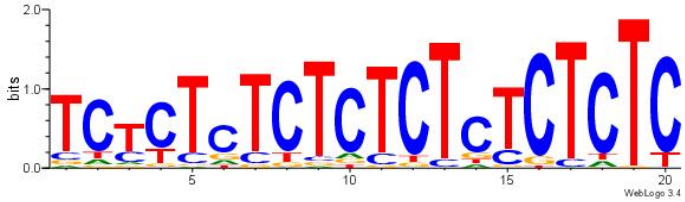

Dataset #: 1 **Motif ID: 20** **Motif name: Motif 20**

Original motif Consensus sequence: ACAATGGACC

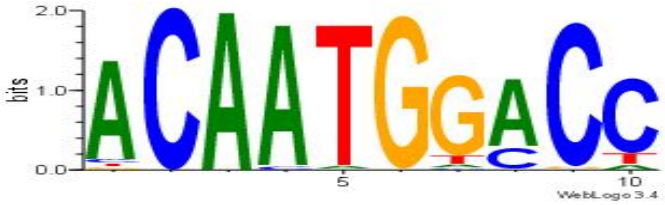

Reverse complement motif Consensus sequence: GGTCCATTGT

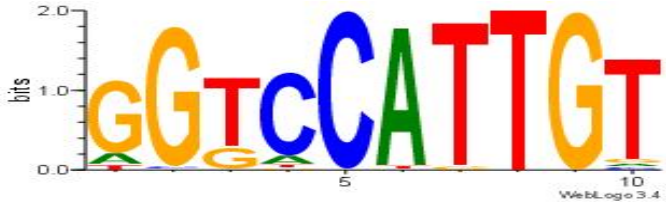

Best Matches for Motif ID 20 (Highest to Lowest)

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0500147

Alignment:

```
GKCTGTACCCCCATTGTAT
-------GGTCCATTGT--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

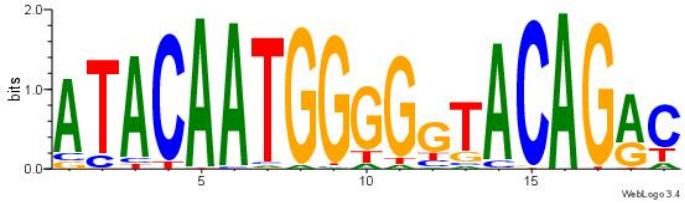

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

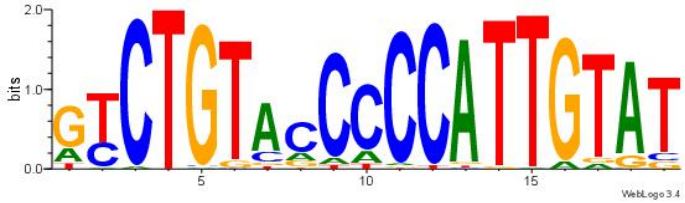

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.059291

Alignment:

```
GCAWSTGCAAAGGCCCT
------ACAATGGACC-
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

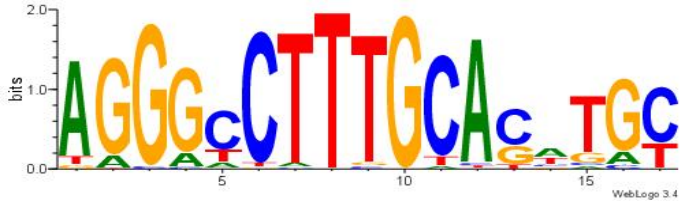

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

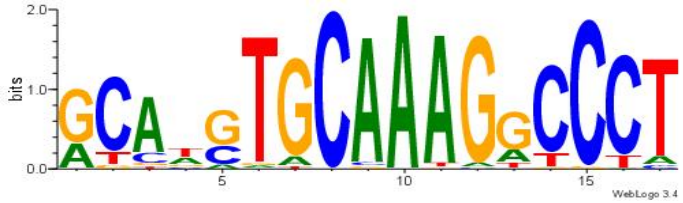

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0608949

Alignment:

```
CATTTGGGAGCCCATTGA
--------GGTCCATTGT
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

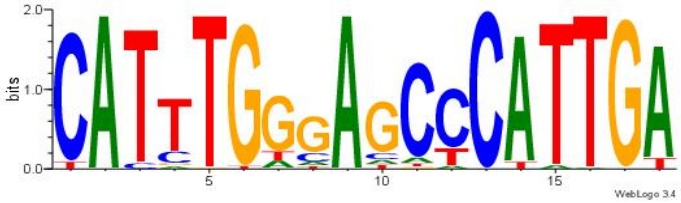

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

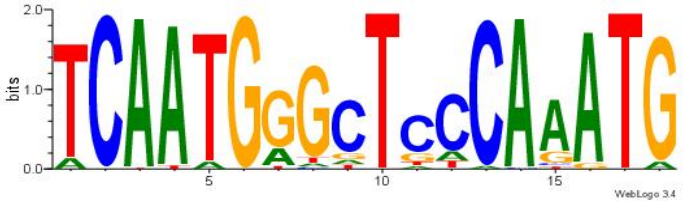

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 10
Similarity score: 0.0668018

Alignment:
CGCCCATCGTCTGGGATGT
GGTCCATTGT---------

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

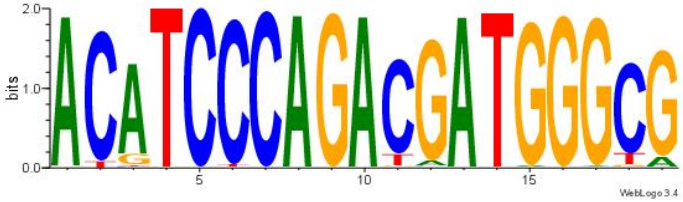

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

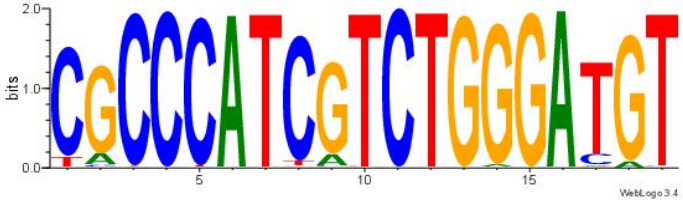

Dataset #: 1
Motif ID: 147
Motif name: Motif 147
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0697279

Alignment:
TCAATGGTGCCCAG
ACAATGGACC----

Original motif Consensus sequence: CTGGGCACCATTGA

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

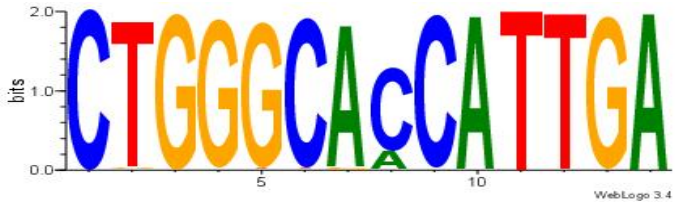

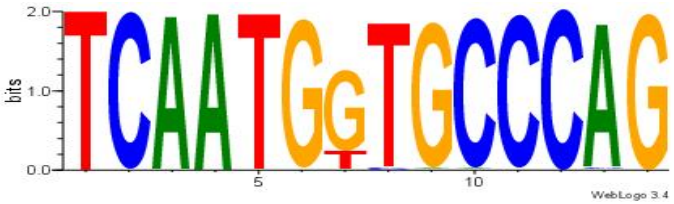

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0705635

Alignment:

```
ACTTTGGACTGTGGACTTTT
-------ACAATGGACC---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

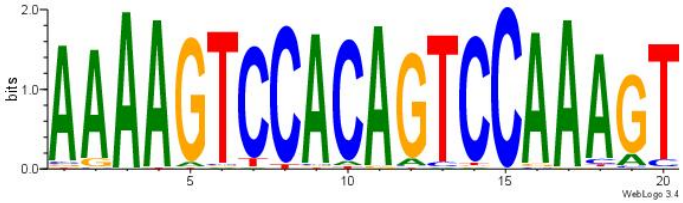

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

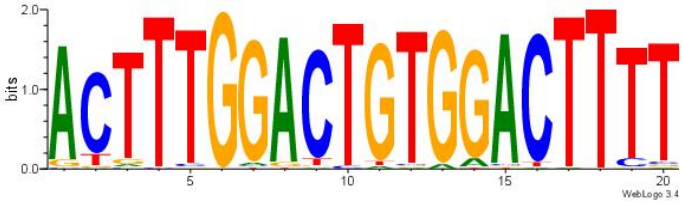

Dataset #: 1

Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0720541

Alignment:

```
TGGGTTCYTGGTC
--GGTCCATTGT-
```

Original motif Consensus sequence: GACCAMGAACCCA

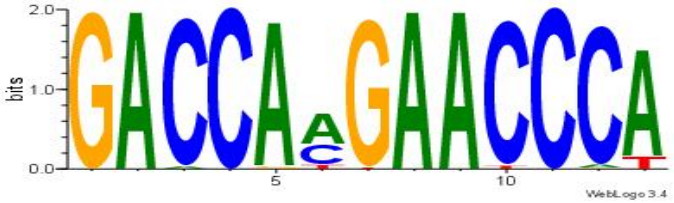

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

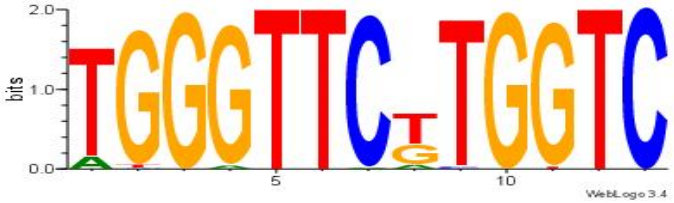

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0723294

Alignment:
CCGCTGCACTGTGGGAGCCC
--GGTCCATTGT--------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

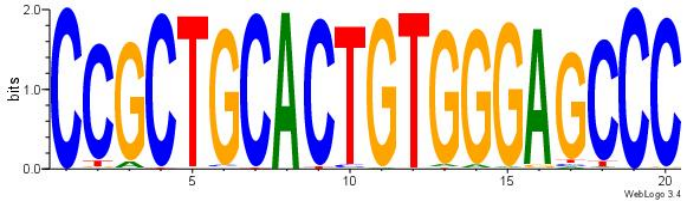

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

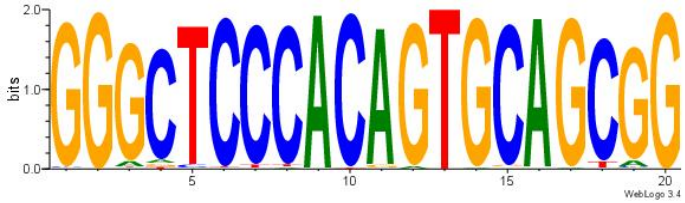

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0731132

Alignment:
AGGCCCCAGTGTSTGTTGTT
--GGTCCATTGT--------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

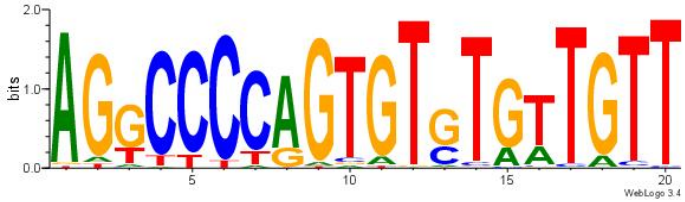

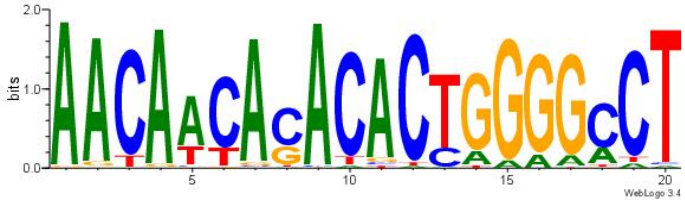

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0731883

Alignment:

```
TGHCCTGCKCCCACTGTCT
-------GGTCCATTGT--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

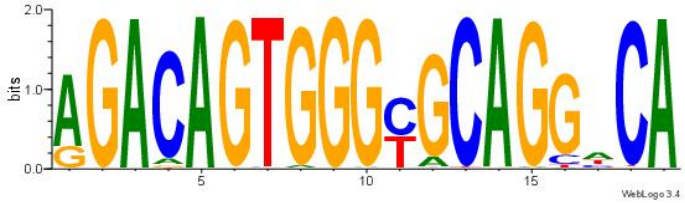

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

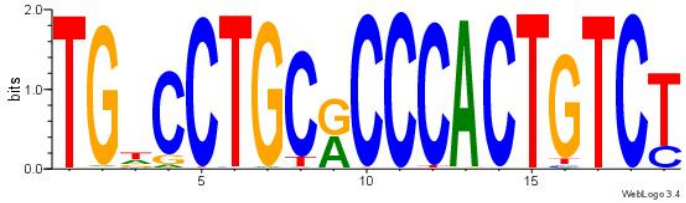

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.073335

Alignment:

```
CTTGGGTGGTCGATGGGAC
-------GGTCCATTGT--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

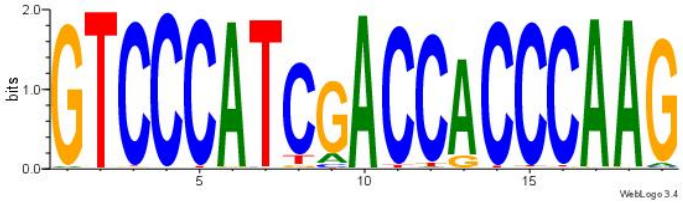

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

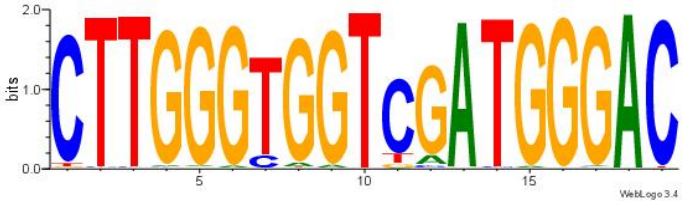

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.0750207

Alignment:
TGCTGGAGGTCCACTCCAGA
-------GGTCCATTGT---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

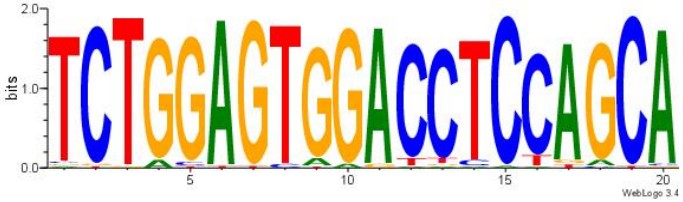

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

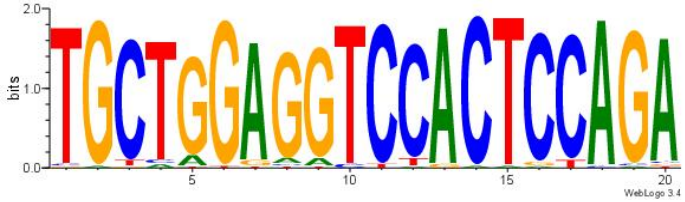

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.07586

Alignment:
MGAAGGGACTTGCCTTGT
ACAATGGACC--------

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

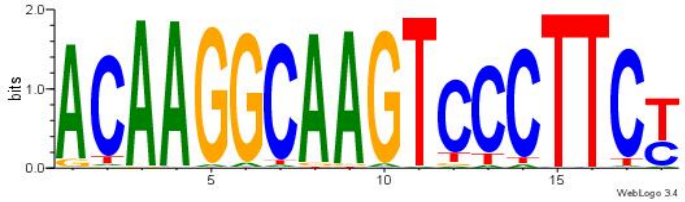

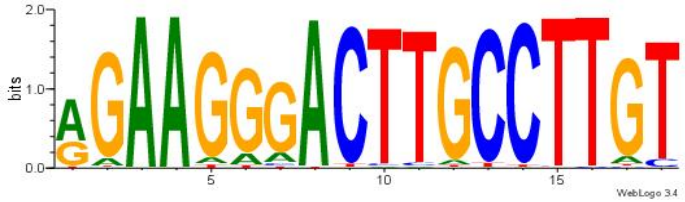

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0763376

Alignment:

```
AAGGTCCATGTAG
--GGTCCATTGT-
```

Original motif Consensus sequence: AAGGTCCATGTAG

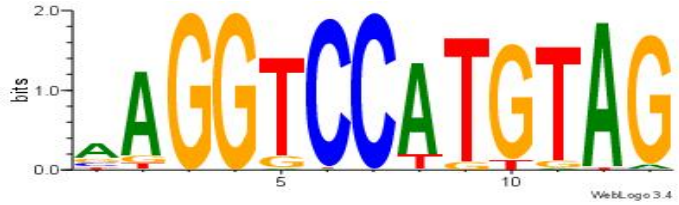

Reverse complement motif Consensus sequence: CTACATGGACCTT

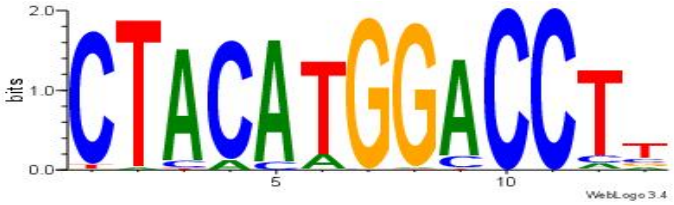

Dataset #:	1
Motif ID:	220

Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0776138

Alignment:

```
GTGGGTGCAGTGCA
---GGTCCATTGT-
```

Original motif Consensus sequence: TGCACTGCACCCAC

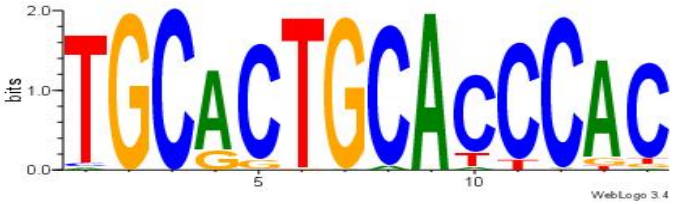

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

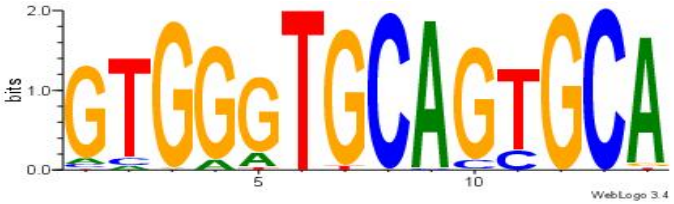

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0791927

Alignment:
TAGTGGTGATTTSTGAGAT
----GGTCCATTGT-----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

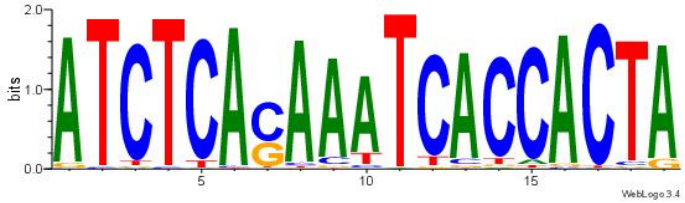

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

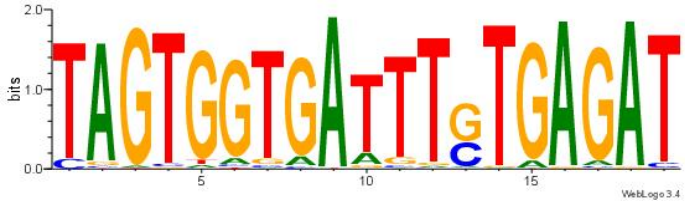

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0796534

Alignment:
CAAGCCTSKGCAATGGCAGG
---------ACAATGGACC-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

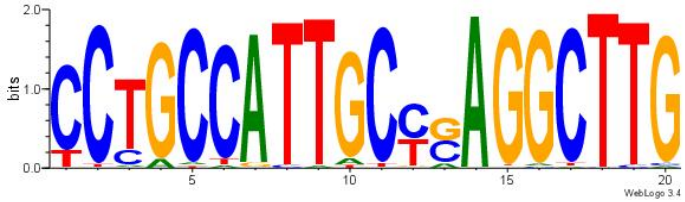

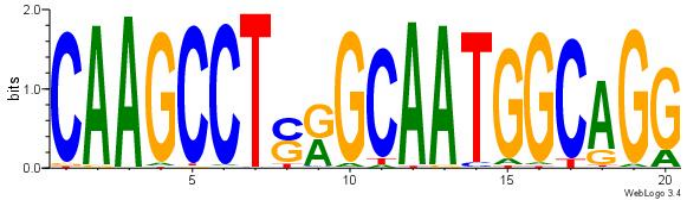

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0802761

Alignment:

```
CGGCTTCATTCTTGAAGTC
--GGTCCATTGT-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

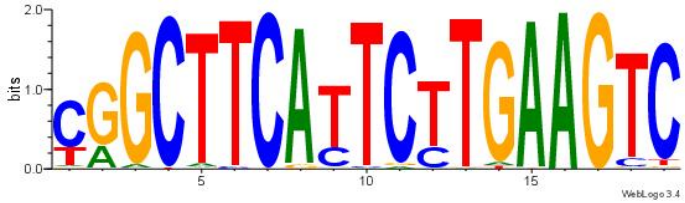

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0811951

Alignment:

```
GGATCCACTGGGTGAAGCCA
-GGTCCATTGT---------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

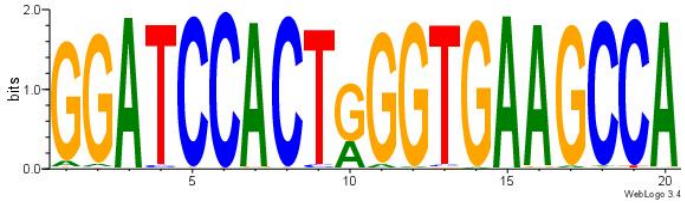

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

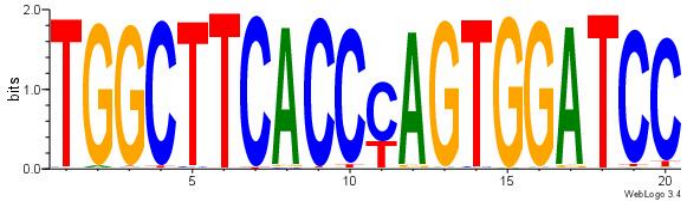

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0811997

Alignment:
GCAAAKGACATGATYTCATT
ACAATGGACC----------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

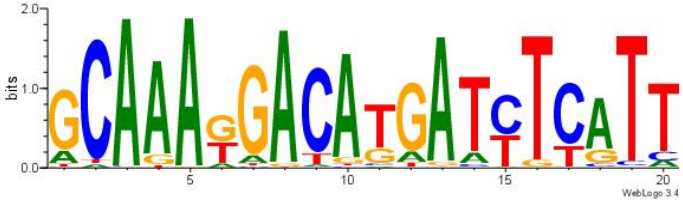

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

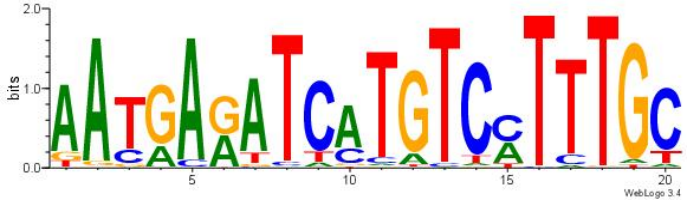

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0839814

Alignment:
TGCCCAGTCTGGAAAGTG
GGTCCATTGT--------

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence:
CACTTTCCAGACTGGGCA

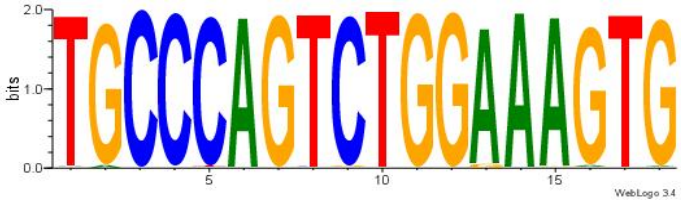

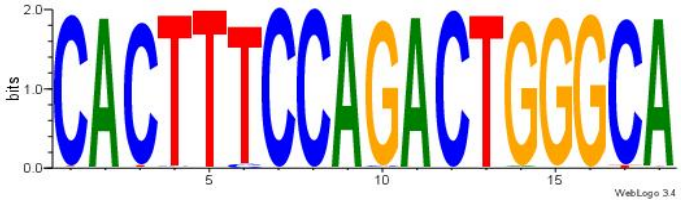

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.085276

Alignment:

```
GCTCCWGTGYGKCC
GGTCCATTGT----
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

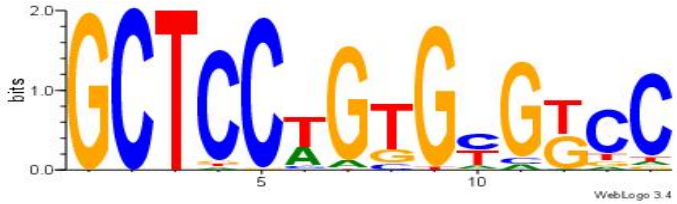

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	3

Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0854275

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-----GGTCCATTGT-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

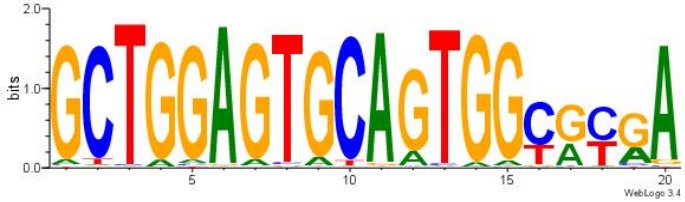

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

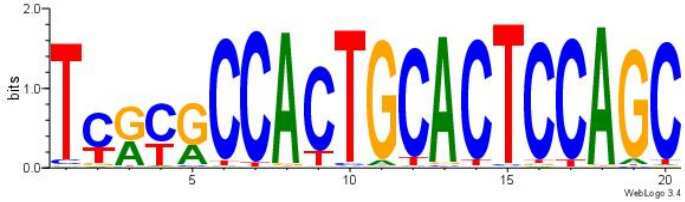

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0864668

Alignment:
TCTMKGCTCACTGC
----GGTCCATTGT

Original motif Consensus sequence: GCAGTGAGCYRAGA

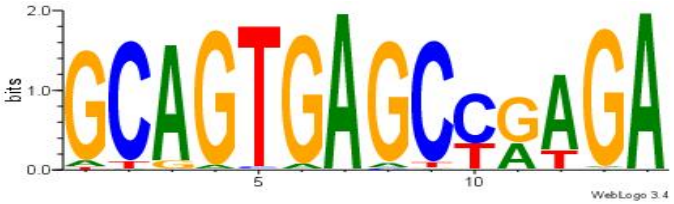

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

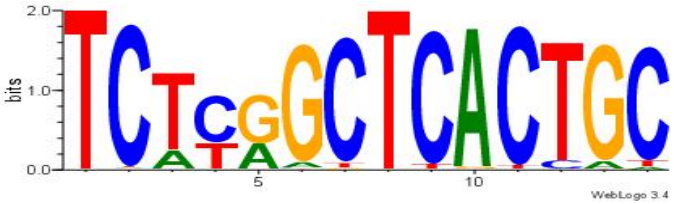

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0868471

Alignment:
AAGGGACATTKGAG
--GGTCCATTGT--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

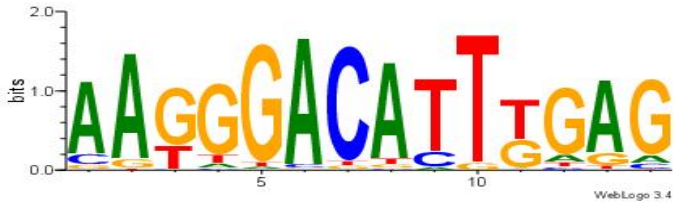

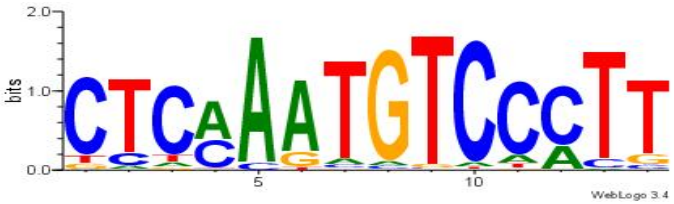

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0870139

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--GGTCCATTGT--------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

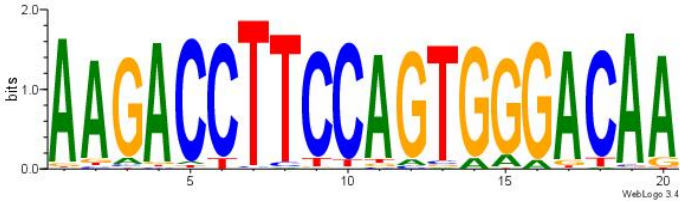

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

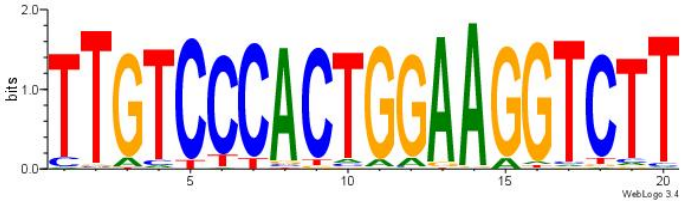

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0880048

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-------ACAATGGACC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

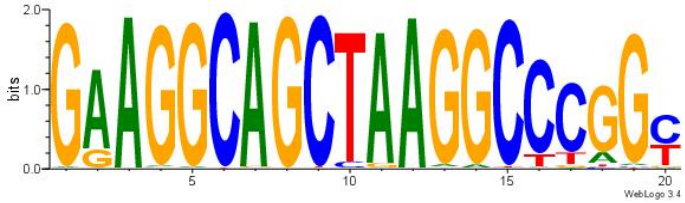

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

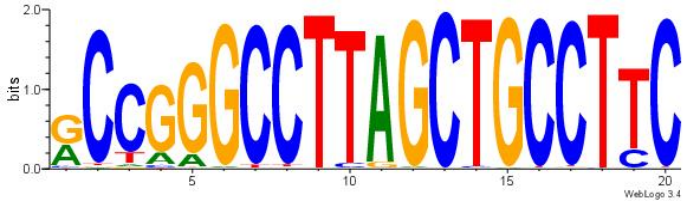

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0884718

Alignment:
AACCCTATTGTGAACTGYG
-GGTCCATTGT--------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

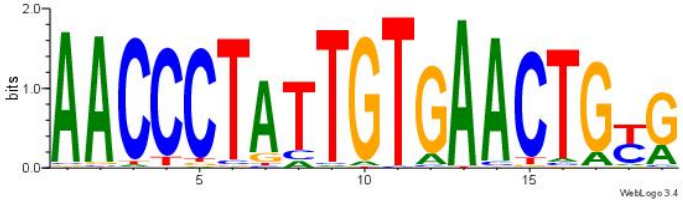

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

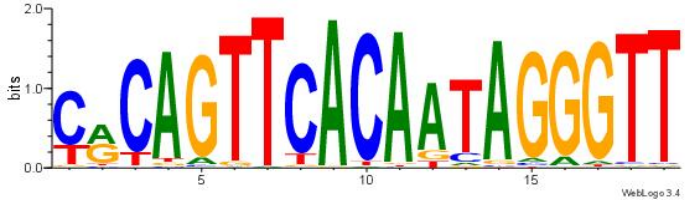

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0885984

Alignment:
GTAGACKGGAGCTGTTCCT
--ACAATGGACC-------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

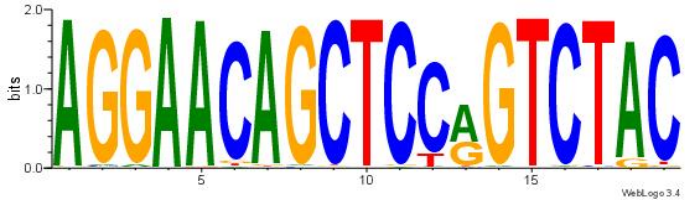

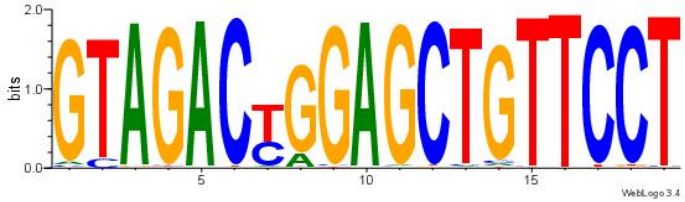

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0887281

Alignment:

```
TAGATAATAGCTCCAGCTTT
---ACAATGGACC-------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

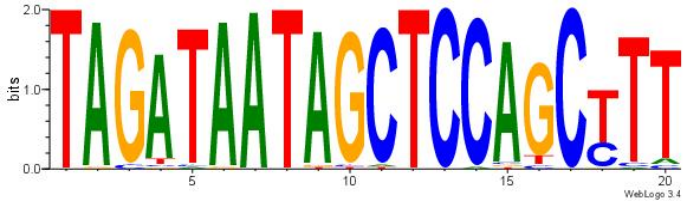

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

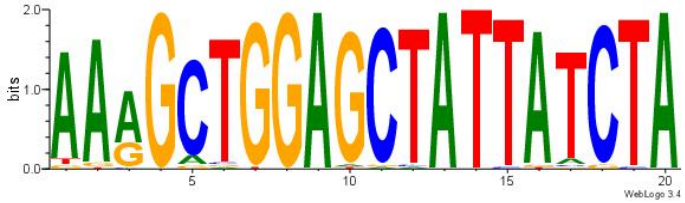

Dataset #: 1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0893018

Alignment:

```
CAAGGTCTGATTGTW
----GGTCCATTGT-
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

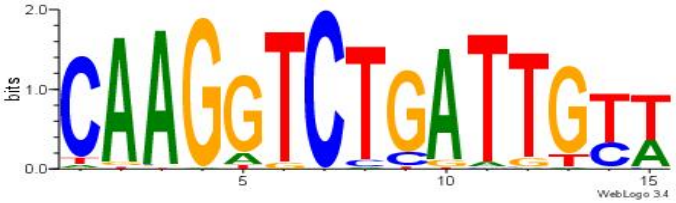

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0901318

Alignment:
CCGCTCCTGTGC
--GGTCCATTGT

Original motif Consensus sequence: CCGCTCCTGTGC

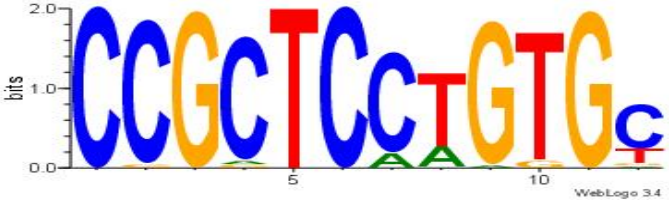

Reverse complement motif Consensus sequence: GCACAGGAGCGG

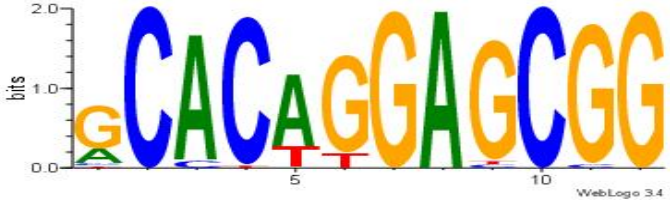

Dataset #:	1
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0903241

Alignment:
AAGATGGCCGAAT
ACAATGGACC---

Original motif Consensus sequence: AAGATGGCCGAAT

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

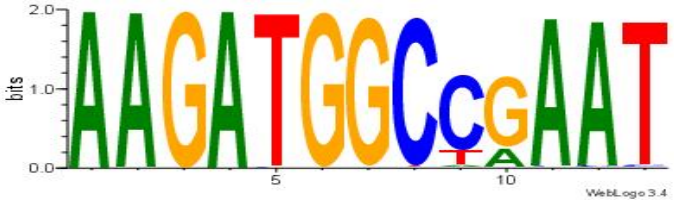

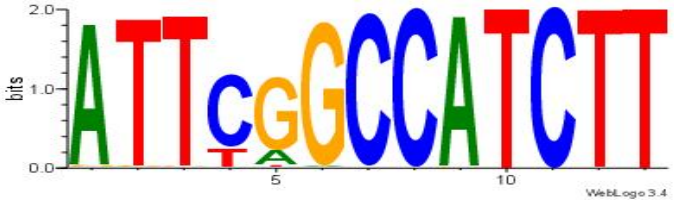

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0905928

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-GGTCCATTGT---------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

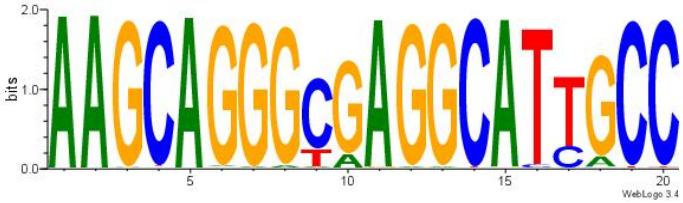

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

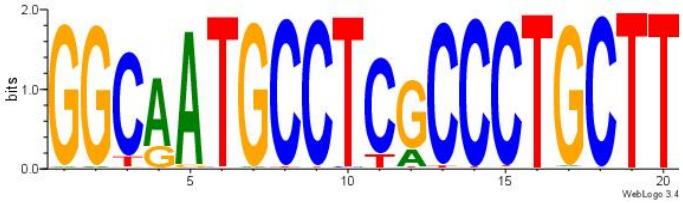

Dataset #: 1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0911227

Alignment:

```
AATGACCAATTGAGAGC
---GGTCCATTGT----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

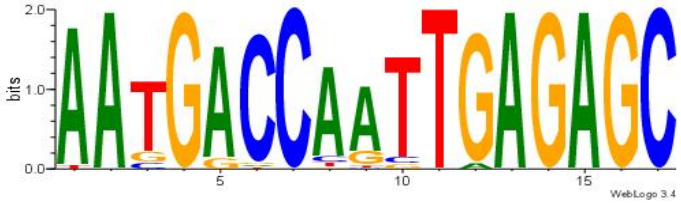

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

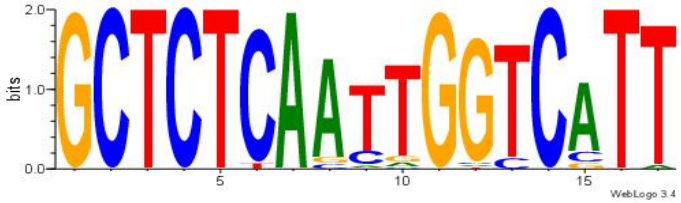

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0911363

Alignment:
AAATTAGGCCAATTAATAAC
------GGTCCATTGT----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

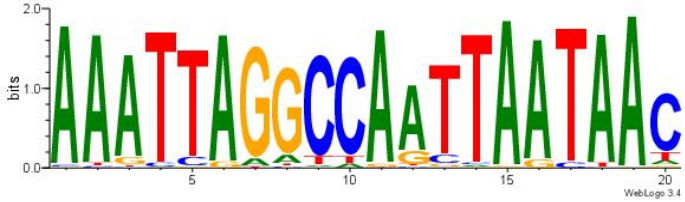

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 9
Motif name: Motif 9
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0918202

Alignment:
CACATGGAGC
ACAATGGACC

Original motif Consensus sequence: CACATGGAGC

Reverse complement motif Consensus sequence: GCTCCATGTG

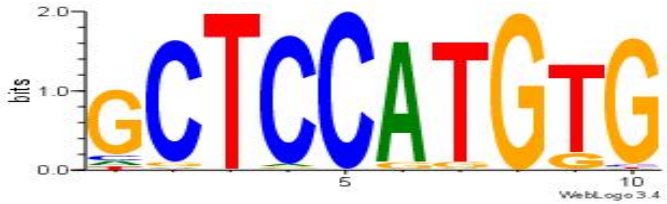

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0924698

Alignment:

```
AGGAGGAAGTCAATTTC
-------GGTCCATTGT
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

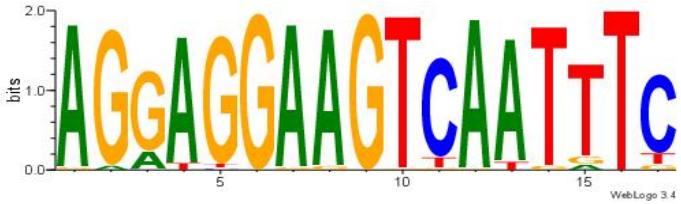

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

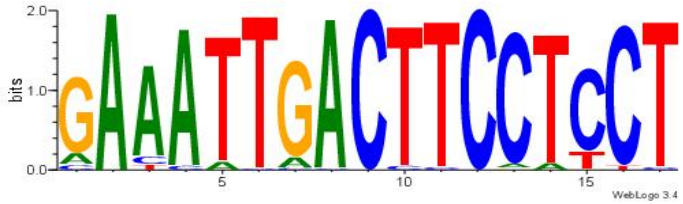

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0925883

Alignment:

```
ACACATCACAAAGCAGTTTC
-------ACAATGGACC---
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

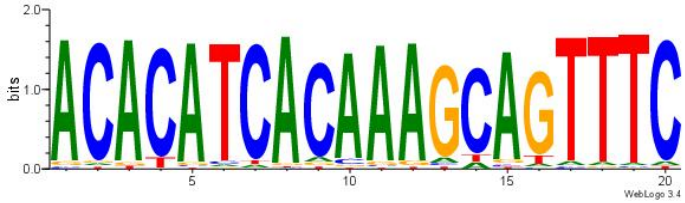

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

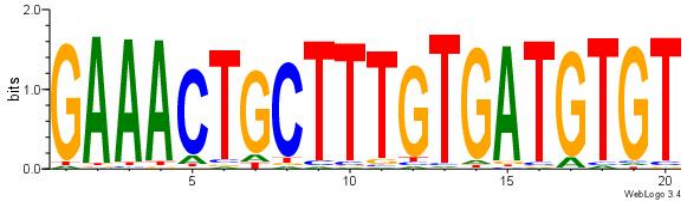

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0927462

Alignment:
GGTTTTCCATTCCTGAG
---GGTCCATTGT----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

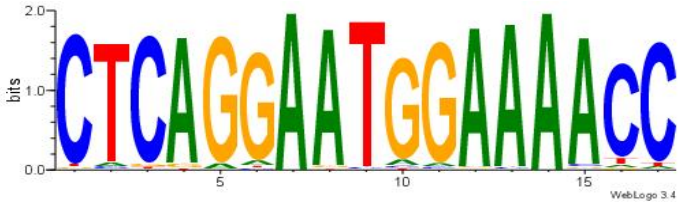

Reverse complement motif Consensus sequence:
GGTTTTCCATTCCTGAG

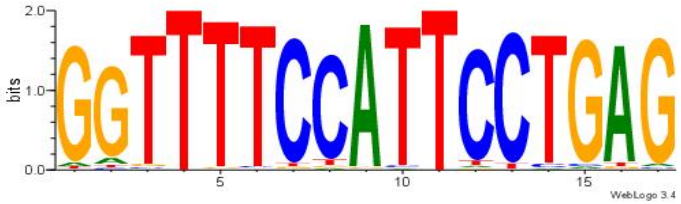

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0928423

Alignment:
GCCAGTCACAAAARGACAMA
-------ACAATGGACC---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

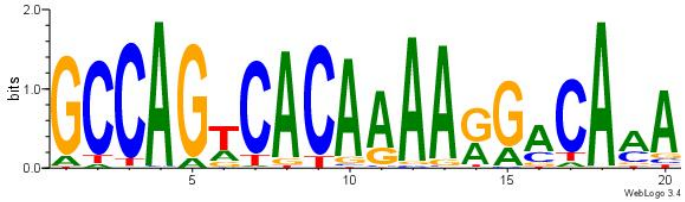

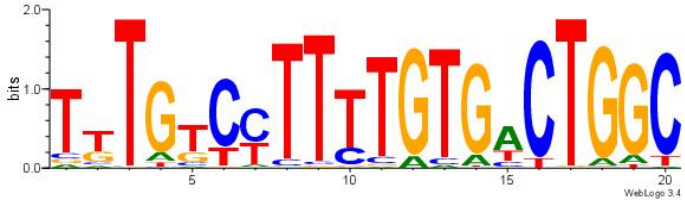

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0928897

Alignment:
HGCTCCTGTGSKCCC
-GGTCCATTGT----

Original motif Consensus sequence: HGCTCCTGTGSKCCC

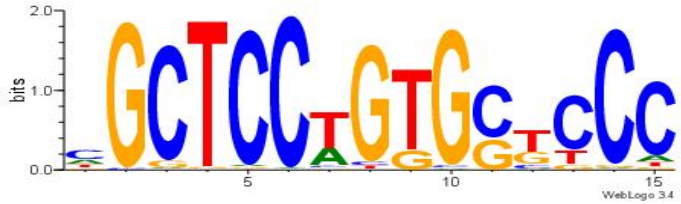

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0930371

Alignment:

```
KKCACCTTGATCTTGGACTT
GGTCCATTGT----------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

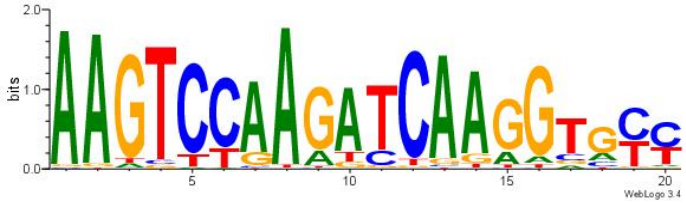

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

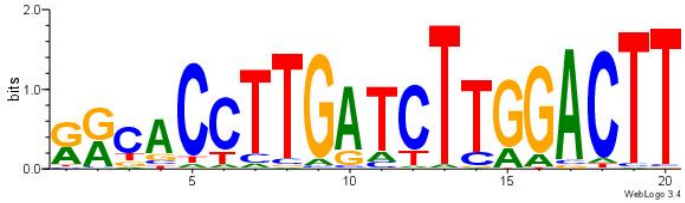

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.0931933

Alignment:
GTTTAACCATTGAGGGCCAG
-----ACAATGGACC-----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

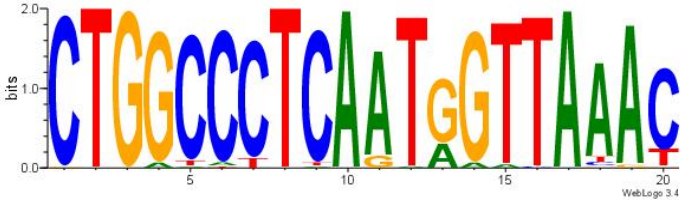

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

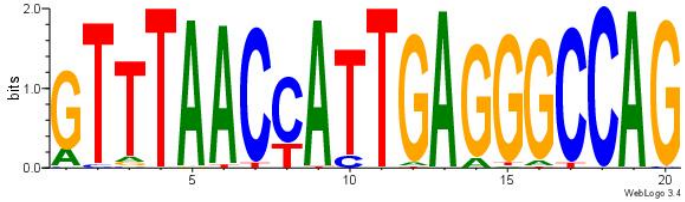

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0935433

Alignment:
CTAGACATAAAGGTTCTCCA
------ACAATGGACC----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

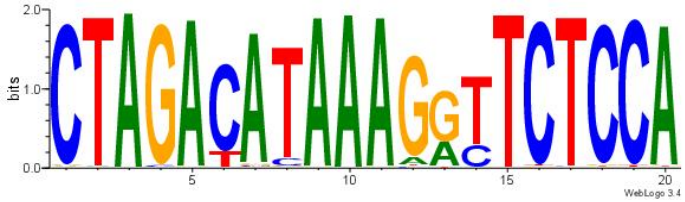

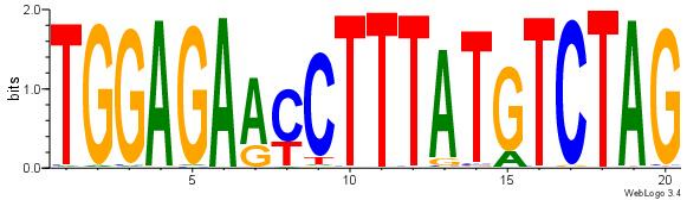

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0938922

Alignment:

```
GCTTCCATGTG
GGTCCATTGT-
```

Original motif Consensus sequence: CACATGGAAGC

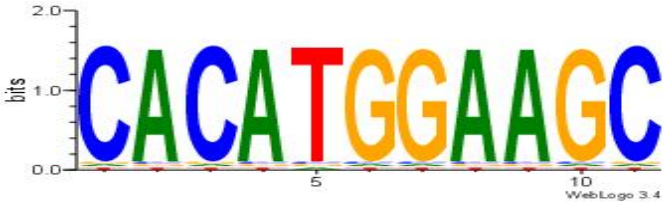

Reverse complement motif Consensus sequence: GCTTCCATGTG

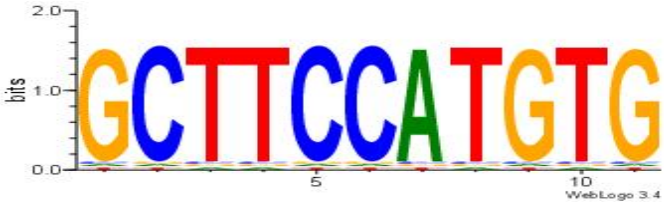

Dataset #:	1
Motif ID:	256

Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0939229

Alignment:

```
RCAGTGTACACTGY
----GGTCCATTGT
```

Original motif Consensus sequence: RCAGTGTACACTGY

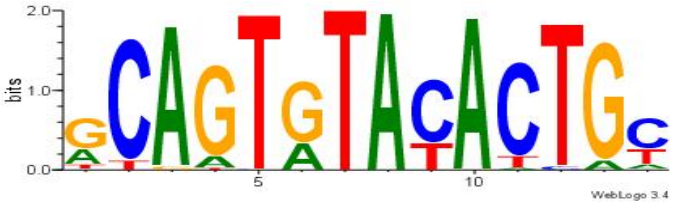

Reverse complement motif Consensus sequence: KCAGTGTACACTG

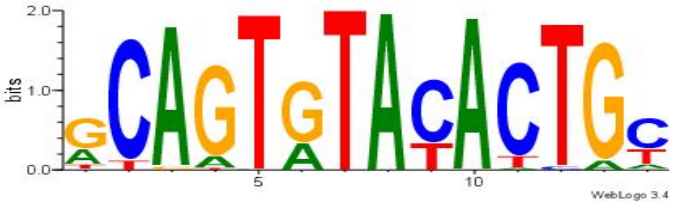

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0940653

Alignment:
GGTTCATCTCACTAGGGAGT
GGTCCATTGT----------

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

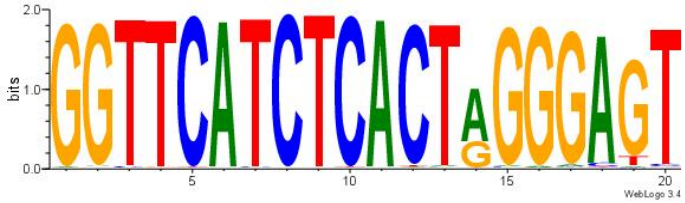

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

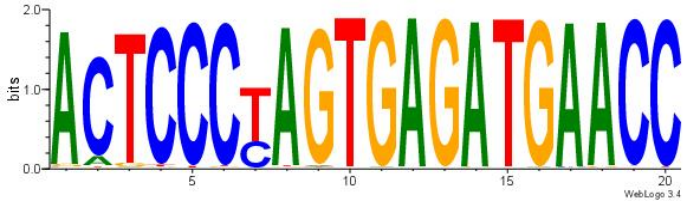

Dataset #:	1
Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0941542

Alignment:
CTCAAGGTCCA
-ACAATGGACC

Original motif Consensus sequence: CTCAAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTTGAG

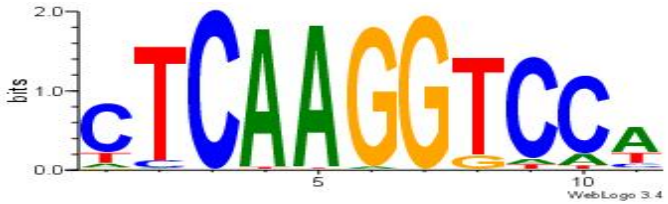

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0945415

Alignment:

```
GAGCCACYGCRCC
---ACAATGGACC
```

Original motif Consensus sequence: GAGCCACYGCRCC

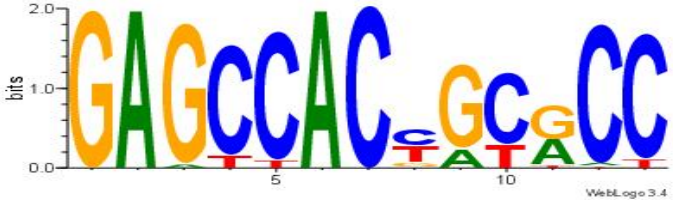

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #: 1 Motif ID: 21 Motif name: Motif 21

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

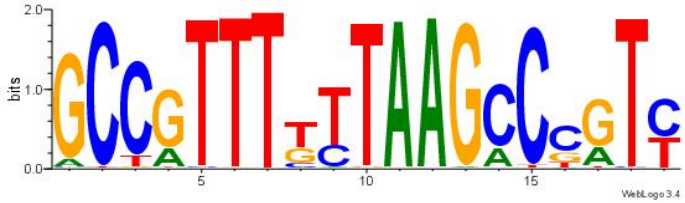

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

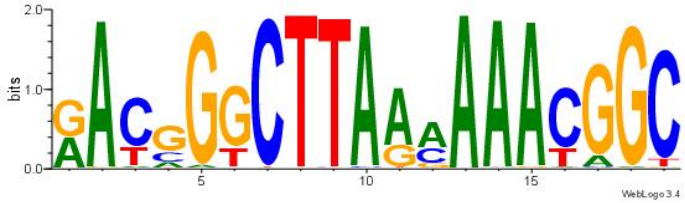

Best Matches for Motif ID 21 (Highest to Lowest)

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116692

Alignment:

```
TAAAAGACTACAWATTGGGT
KACGGGCTTAARAAACGGC-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

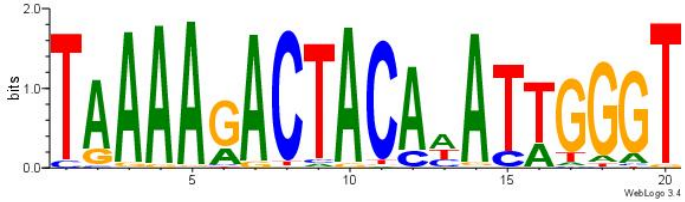

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

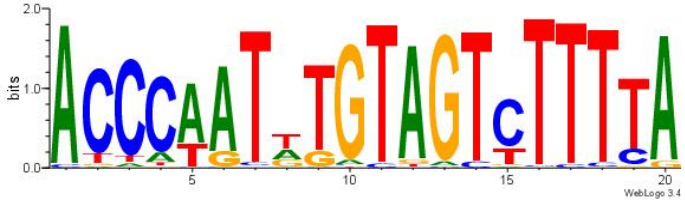

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.119179

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-GCCGTTTKTTAAGCCCGTY
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

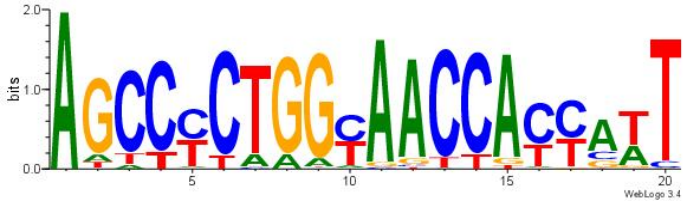

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

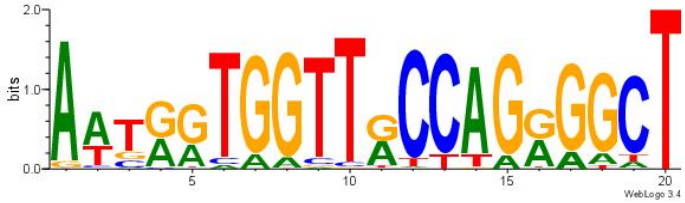

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward

Position number: 2
Number of overlap: 19
Similarity score: 0.119838

Alignment:
CAAGGGTATAYGAGTAGCTG
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

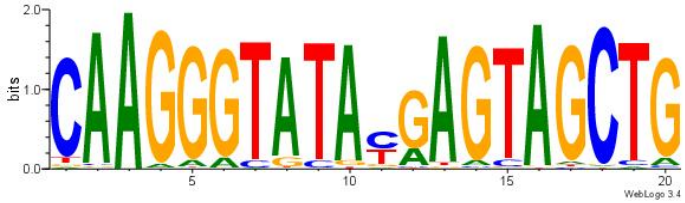

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

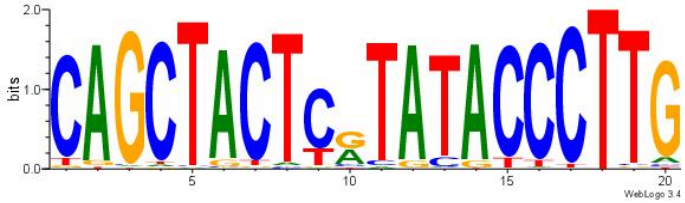

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.120266

Alignment:
CGCGGCGCTTGCGGGCCAGC
-KACGGGCTTAARAAACGGC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

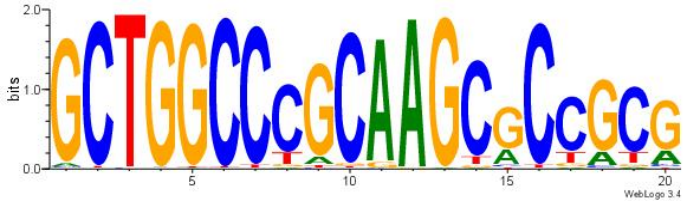

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

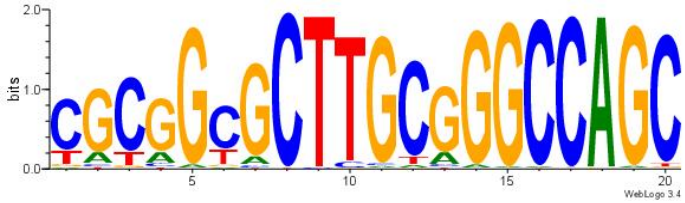

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.122834

Alignment:

```
CMCAGTTCACAATAGGGTT
GCCGTTTKTTAAGCCCGTY
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

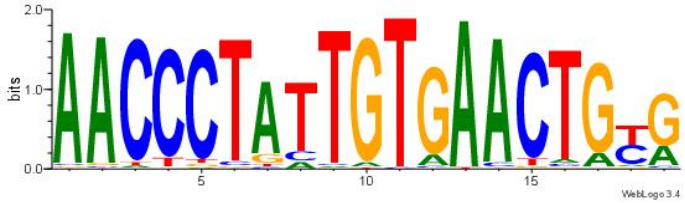

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

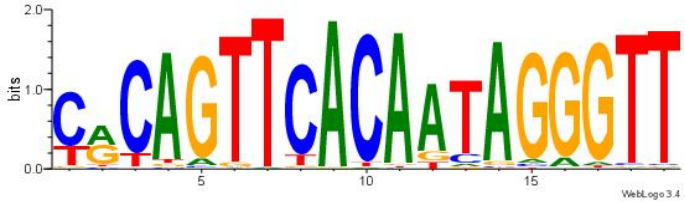

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.123131

Alignment:

```
GACAGGAGATTAACACTGAG
KACGGGCTTAARAAACGGC-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

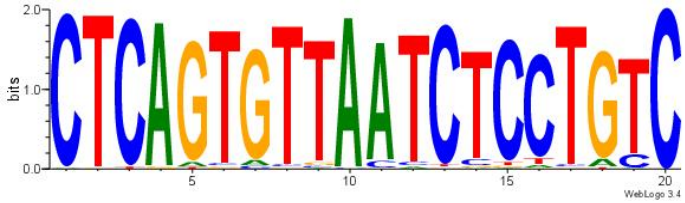

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

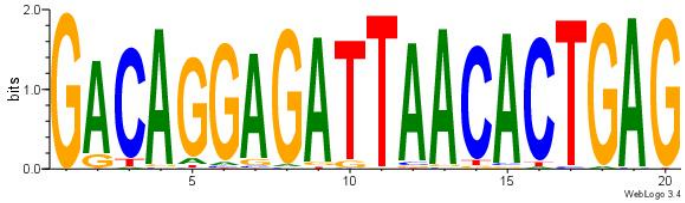

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.123985

Alignment:
TGAGKCAATTAAACCTCTT
GCCGTTTKTTAAGCCCGTY

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

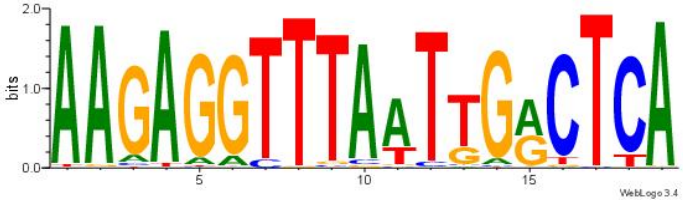

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

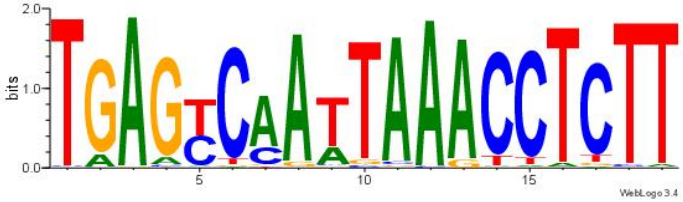

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.124081

Alignment:
GCTGCARTCTCGGCACTTT
GCCGTTTKTTAAGCCCGTY

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

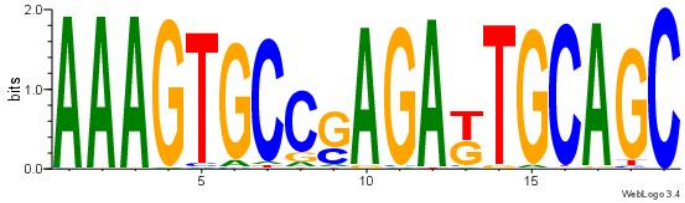

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

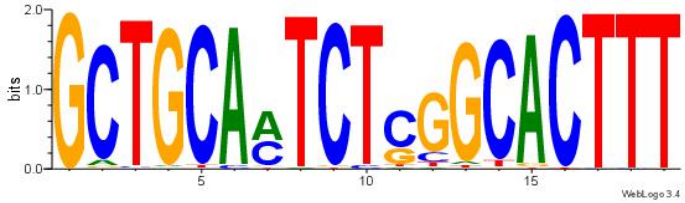

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.124545

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-KACGGGCTTAARAAACGGC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

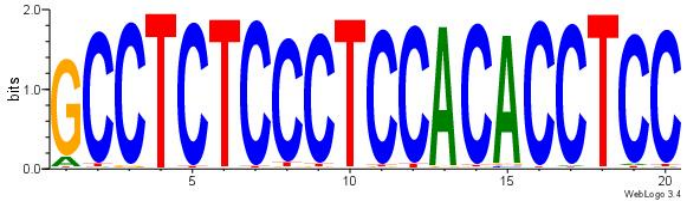

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

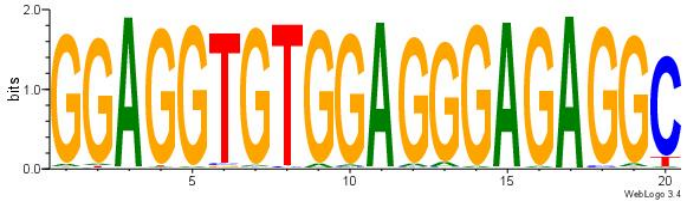

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.124865

Alignment:
GCCAGTCACAAAARGACAMA
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

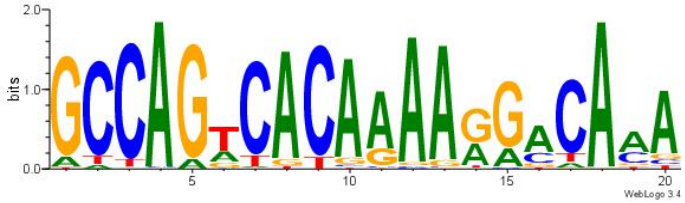

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

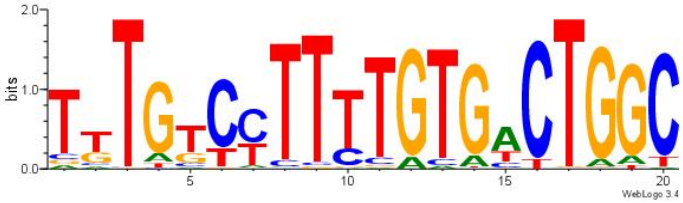

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.127198

Alignment:
GAAGGCAGCTAAGGCCCGGY
-KACGGGCTTAARAAACGGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

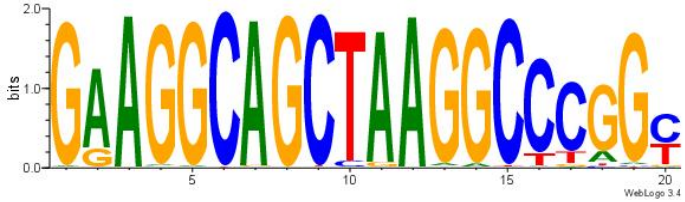

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

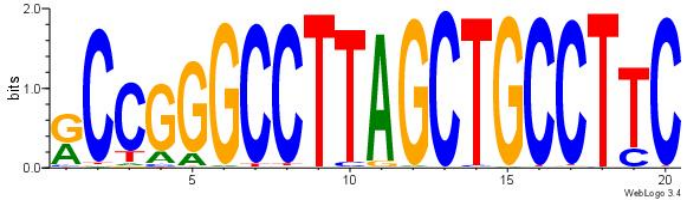

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.127215

Alignment:
AGTAGGTGCTCARTAAATRB
-KACGGGCTTAARAAACGGC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

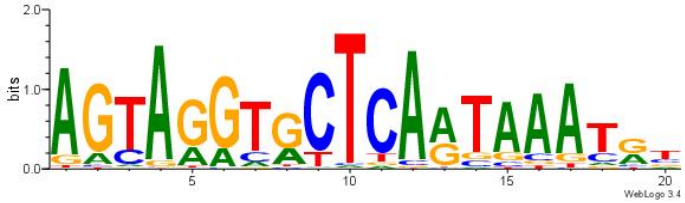

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

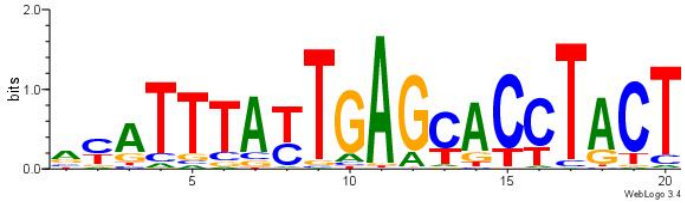

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.128049

Alignment:

```
CCCYAATACTGCGCTTTTC
GCCGTTTKTTAAGCCCGTY
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

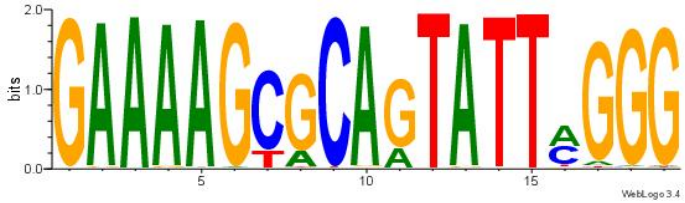

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

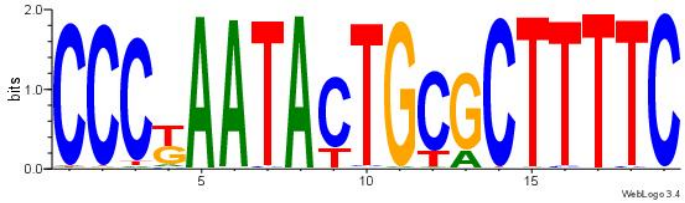

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.130032

Alignment:
CTCATTTAATCCTCACAAC
GCCGTTTKTTAAGCCCGTY

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

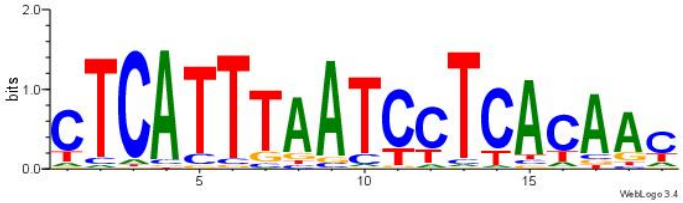

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

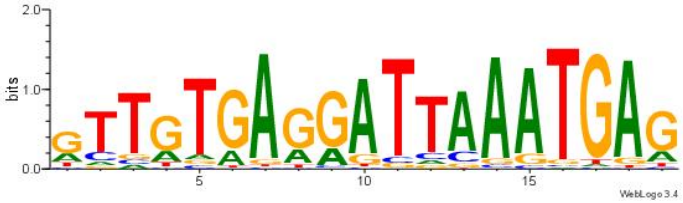

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.130377

Alignment:
ACTGTCTTCCACCTCCACAT
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

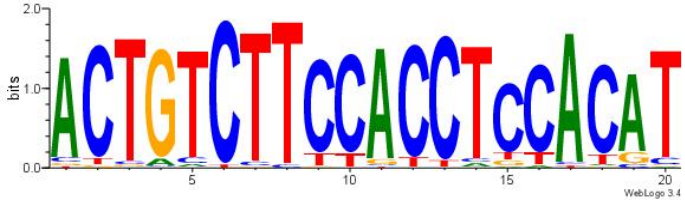

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

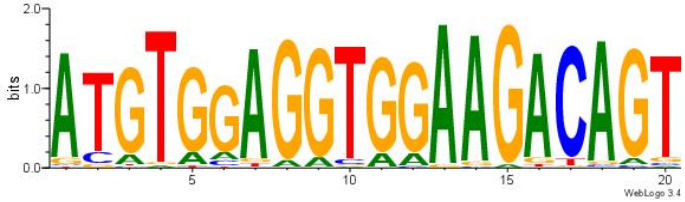

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.131228

Alignment:
ACACATCACAAAGCAGTTTC
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

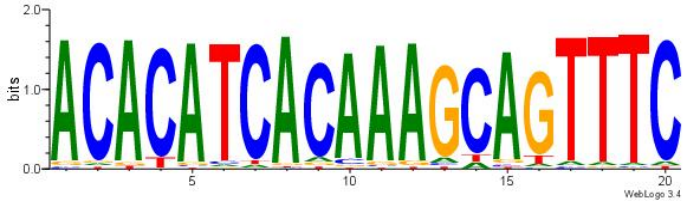

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

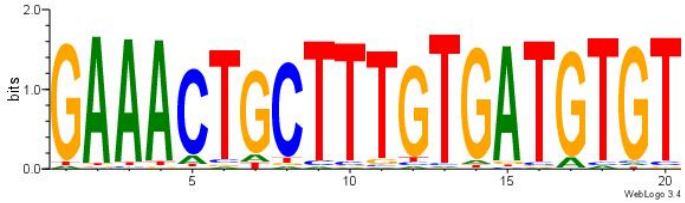

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.135114

Alignment:

```
GTTATTAATTGGCCTAATTT
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

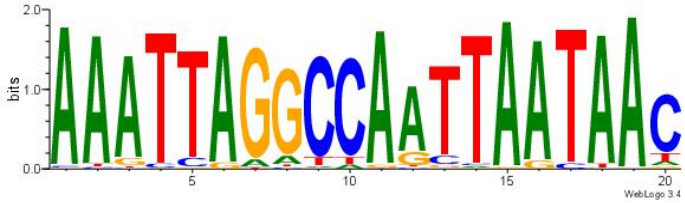

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135191

Alignment:

```
GACTGGCAGGCAGCTCCACC
KACGGGCTTAARAAACGGC-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

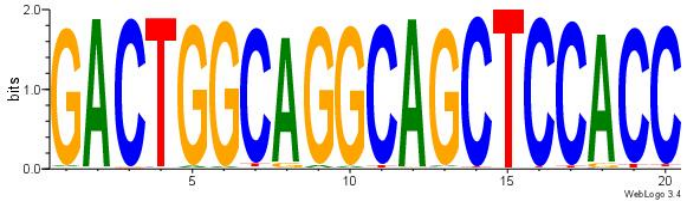

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

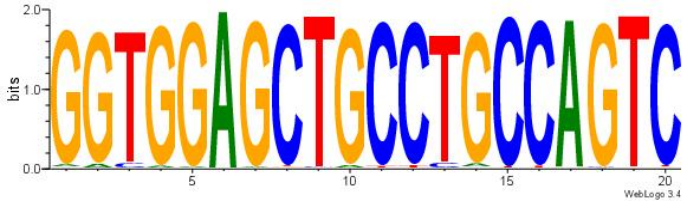

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.135814

Alignment:
AAGCAGGGCGAGGCATTGCC
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

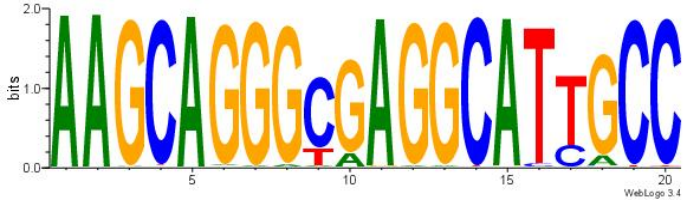

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

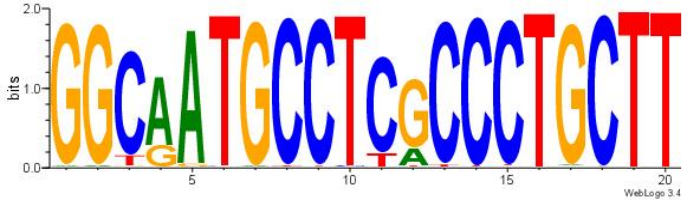

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.136017

Alignment:
CTGGGCTCCTGAGTCTGGTG
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

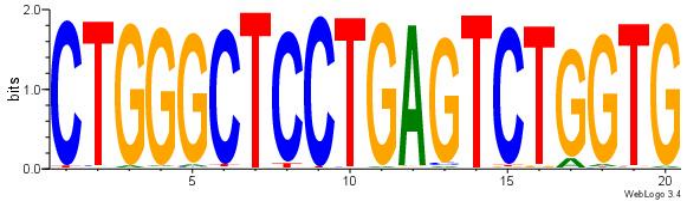

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

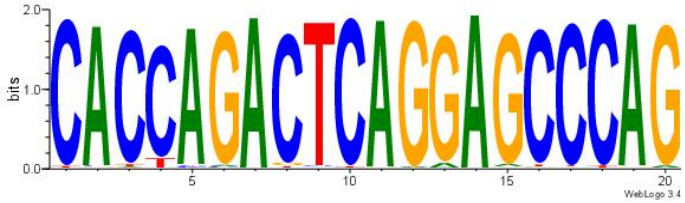

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.136284

Alignment:

```
GCCAATTTCTCCCATTTGGA
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

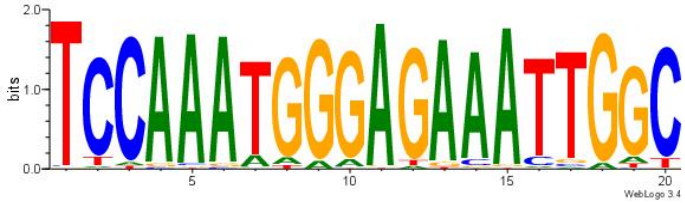

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

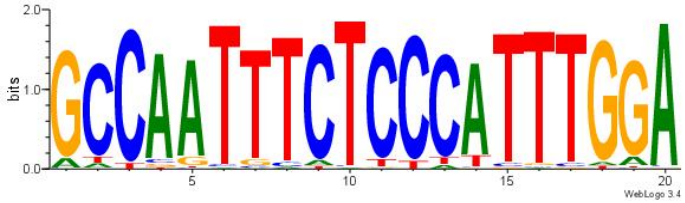

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.136416

Alignment:
GAATACCTCCTGAAGGACCT
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

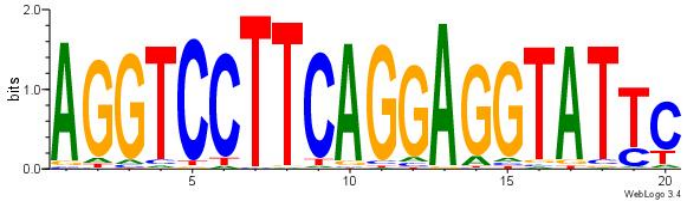

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

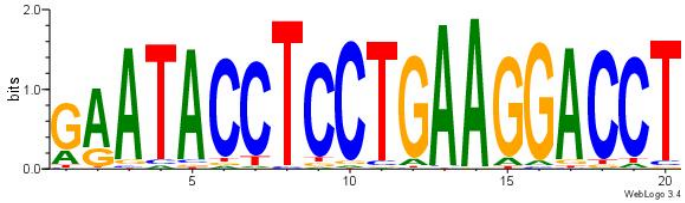

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.137673

Alignment:
AGCTGTGAGAAGAGGGCCAC
-GCCGTTTKTTAAGCCCGTY

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

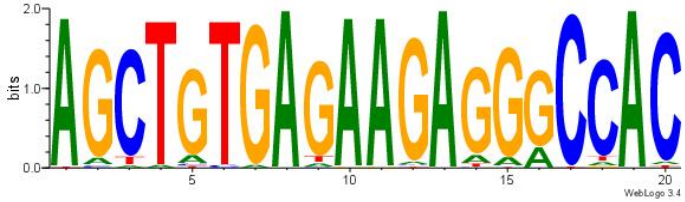

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

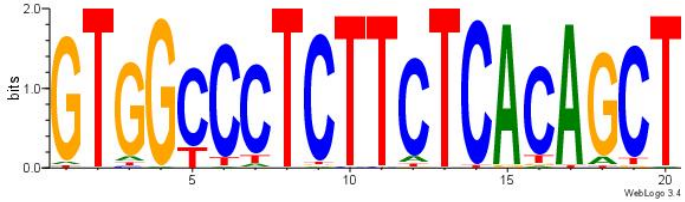

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.138323

Alignment:
GTCTCWAMAAAAAAWAMAAA
-KACGGGCTTAARAAACGGC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

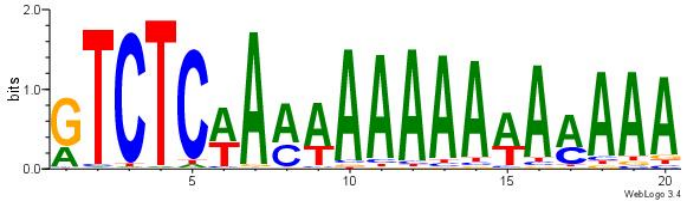

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

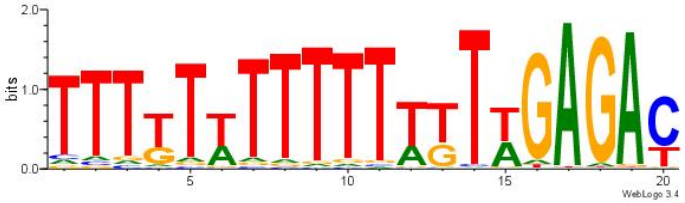

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138723

Alignment:

```
ATGGACAYTTRGGTTGHTTC
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

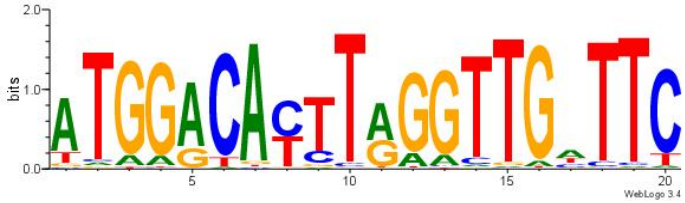

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

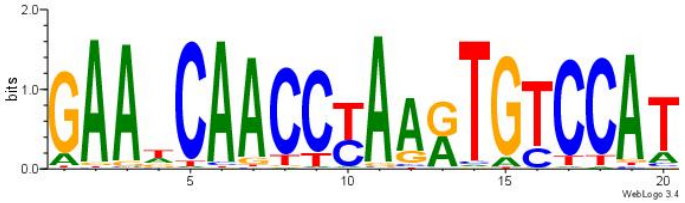

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138979

Alignment:

```
CTCCAGKTMCATCCATGTTG
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

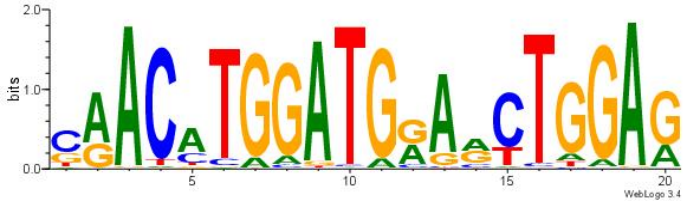

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

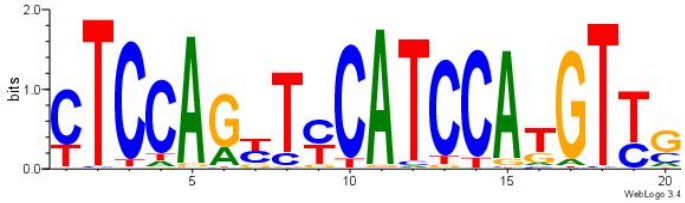

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.139381

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

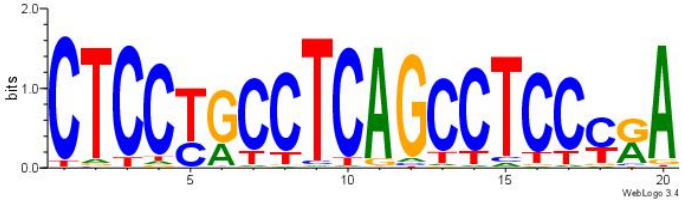

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

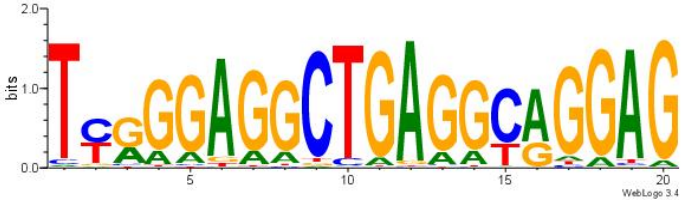

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139484

Alignment:
AGGASCSTCYSWGCCMGGY
GCCGTTTKTTAAGCCCGTY

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

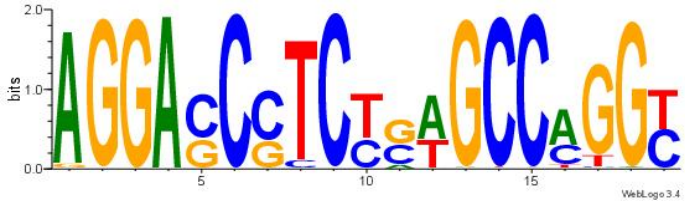

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

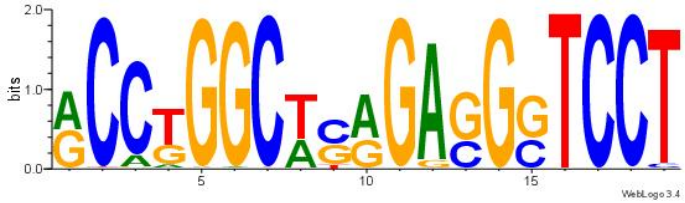

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139506

Alignment:

```
GTKTMTATMTACCACATTTT
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

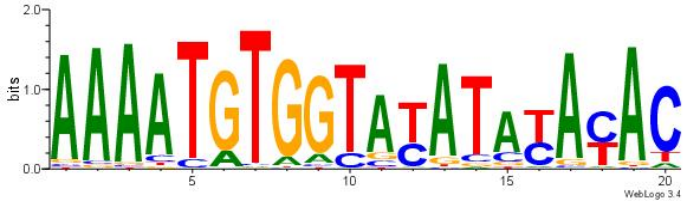

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

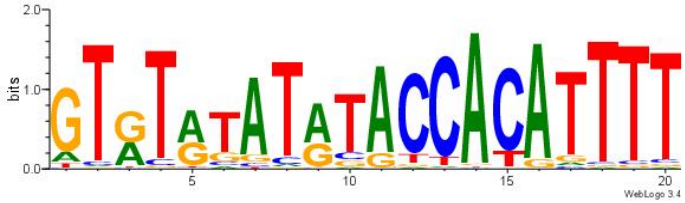

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139554

Alignment:
CCTAGATTTCAGARGATGT
KACGGGCTTAARAAACGGC

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

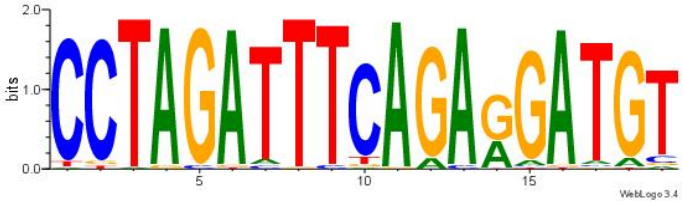

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

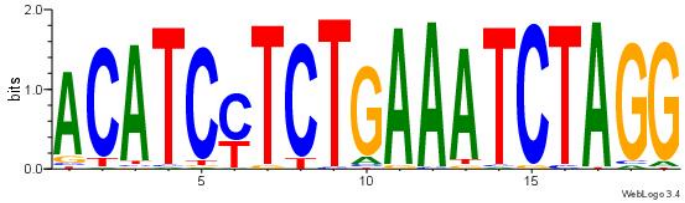

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.140299

Alignment:
GAGAGAGAGAGAGAGAGAGA
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

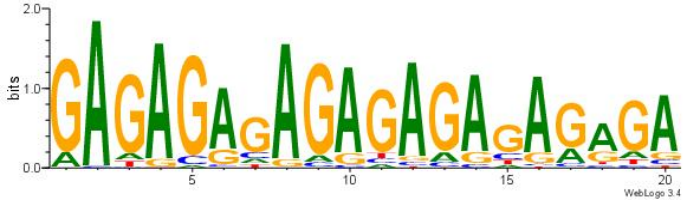

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

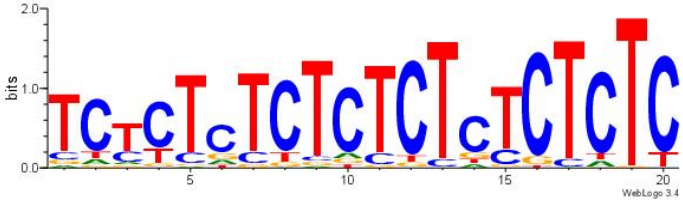

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.140392

Alignment:
GCGCTCKTCGGGGAGGCTCG
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

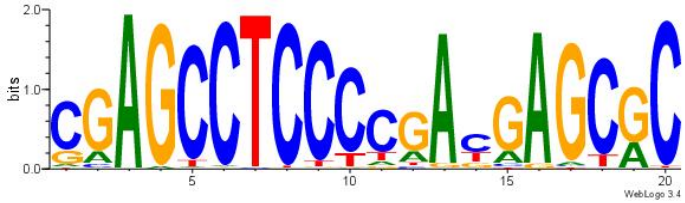

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

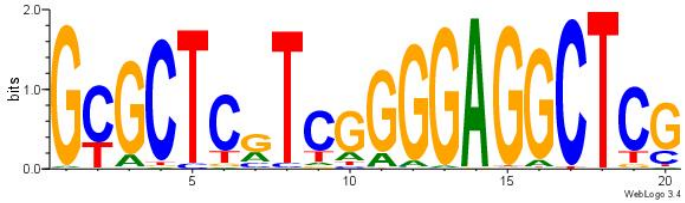

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140623

Alignment:

```
GTTAACTGTAAAACAGCCT
GCCGTTTKTTAAGCCCGTY
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

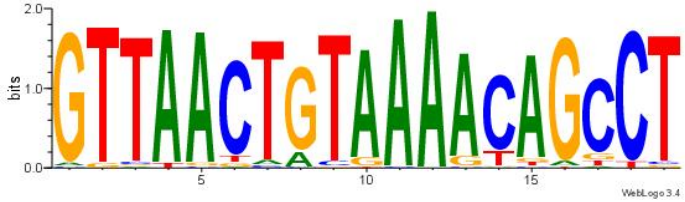

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

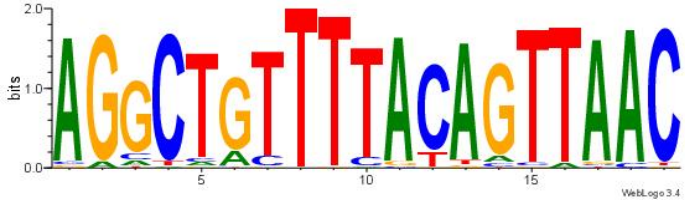

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140972

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

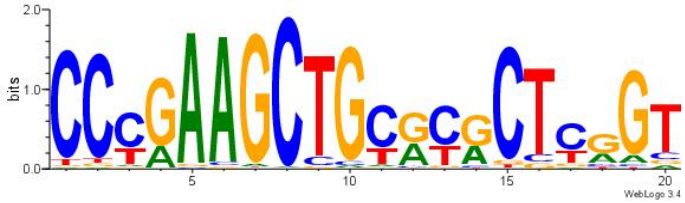

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

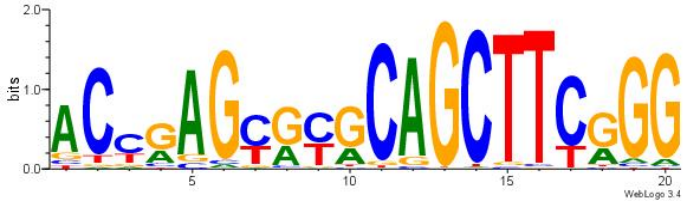

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.141879

Alignment:
CCACCACAGCTCAAGGAGGC
-KACGGGCTTAARAAACGGC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

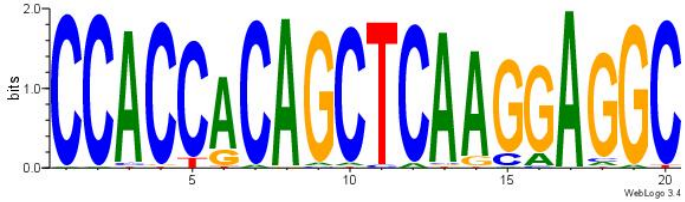

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

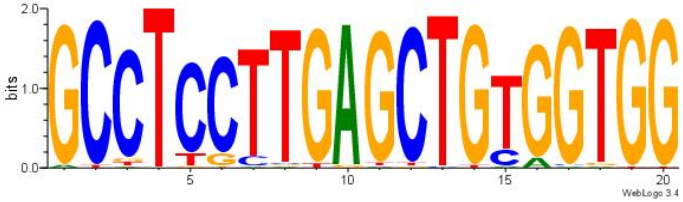

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.144356

Alignment:
GCCKGGMKCMGTGGCTCAKG
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

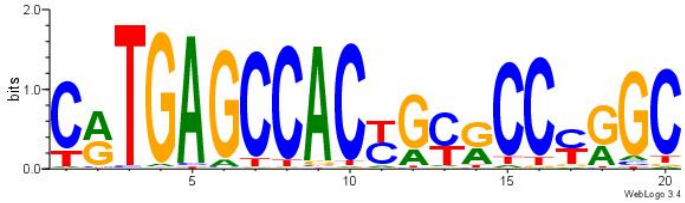

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

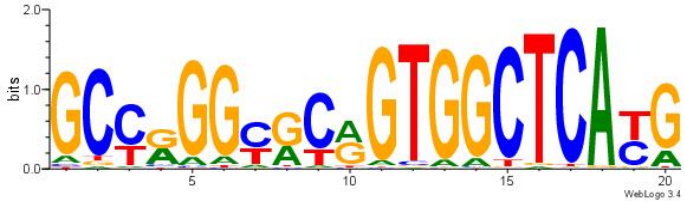

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144598

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-KACGGGCTTAARAAACGGC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

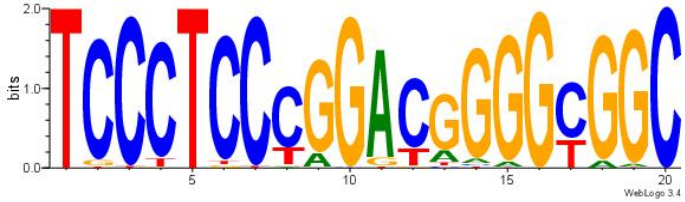

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

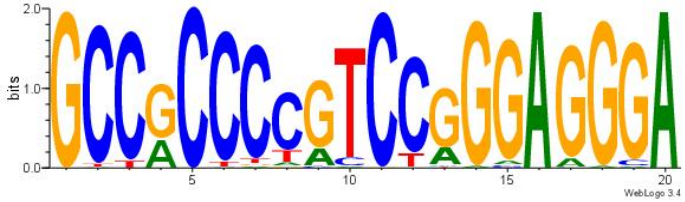

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144617

Alignment:

```
CACCAGGAGATTATATCCCR
-KACGGGCTTAARAAACGGC
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

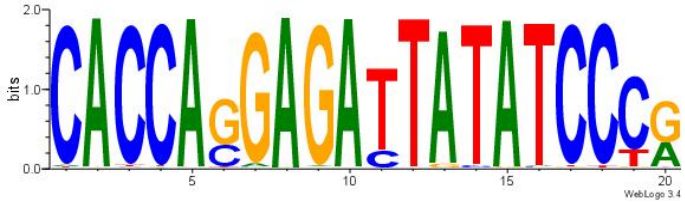

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

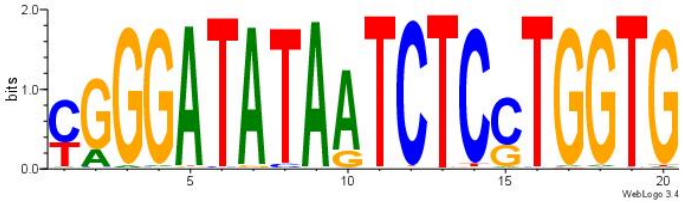

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.144938

Alignment:
TCTGGAGTGGACCTCCAGCA
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

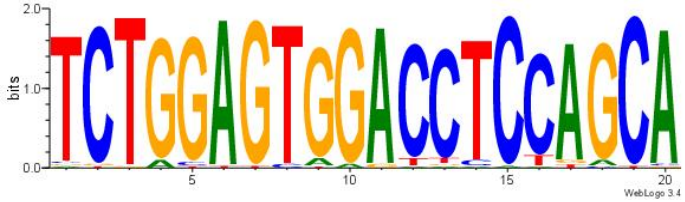

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

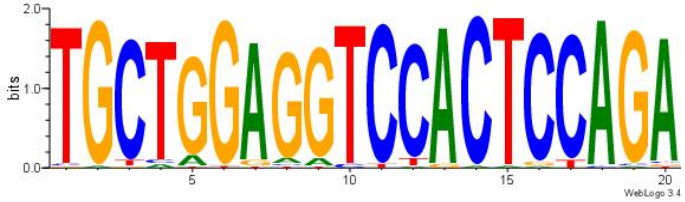

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.145215

Alignment:
GCTGGAGTGCAGTGGCRYGA
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

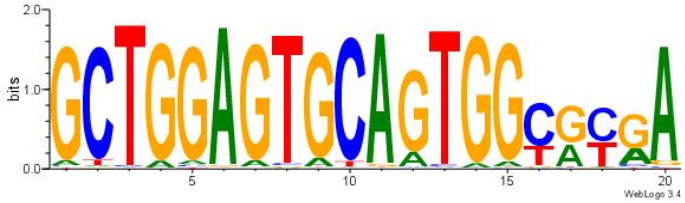

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

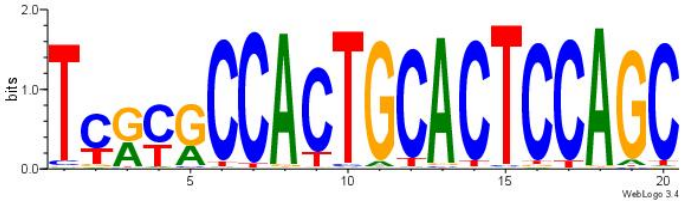

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.14566

Alignment:

```
ATCTGACAGGAGGYRGAGCT
KACGGGCTTAARAAACGGC-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

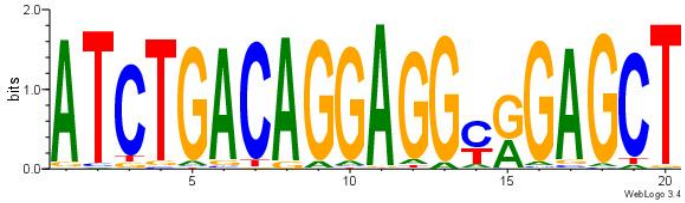

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

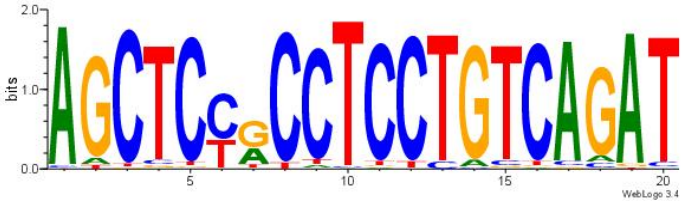

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.146262

Alignment:

```
ATTAGCYRGGCRTGGTGGC
KACGGGCTTAARAAACGGC
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

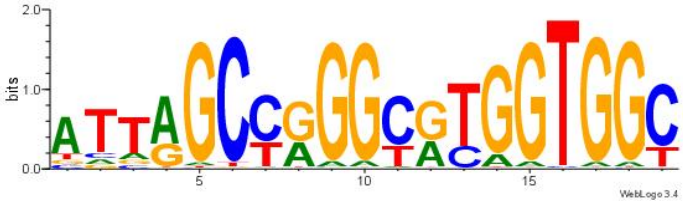

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

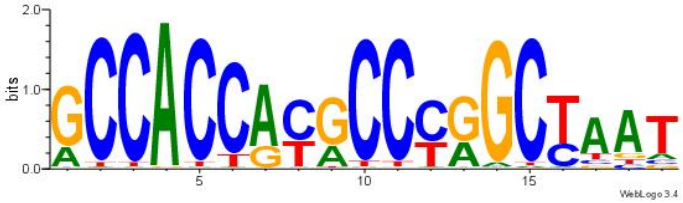

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.146404

Alignment:
CTTGCCCAAGGTCACACAGC
-KACGGGCTTAARAAACGGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

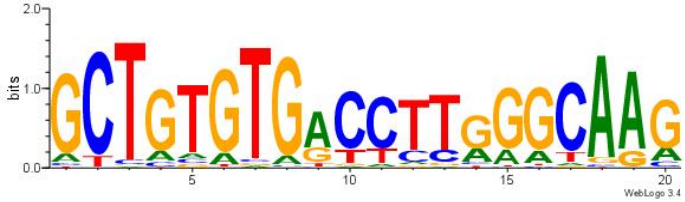

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

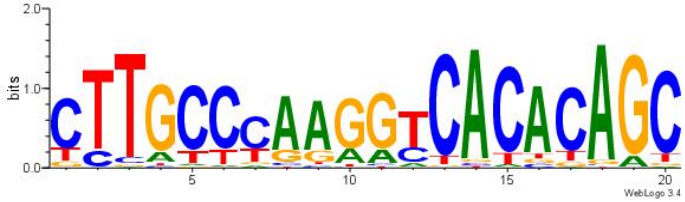

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.146734

Alignment:
KKCACCTTGATCTTGGACTT
-GCCGTTTKTTAAGCCCGTY

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

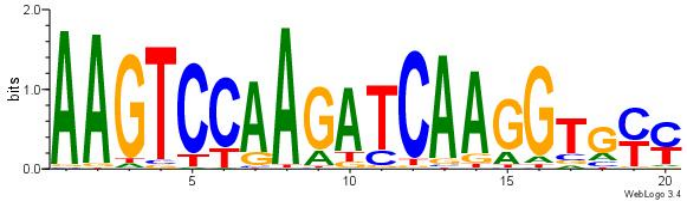

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

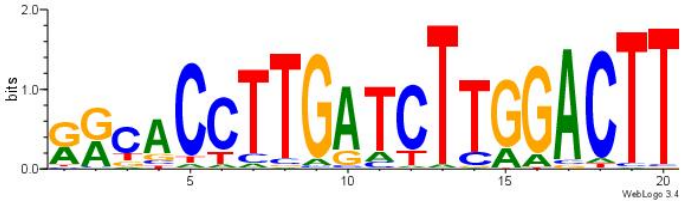

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.147409

Alignment:

```
CCCAAATCTCATSTTGAAT
GCCGTTTKTTAAGCCCGTY
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

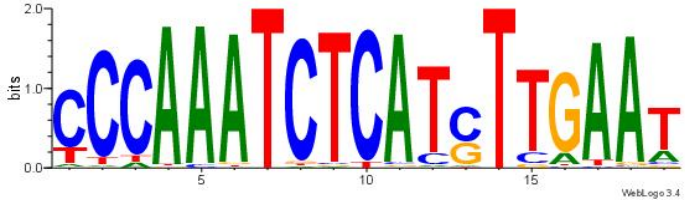

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

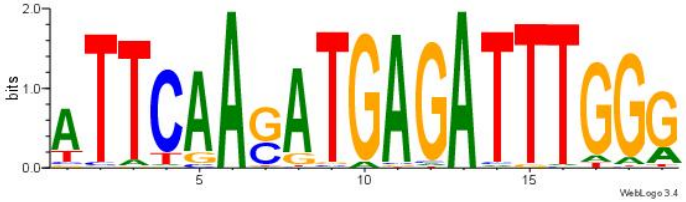

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.147781

Alignment:

```
ATGATCCAGCAATYCCACTH
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

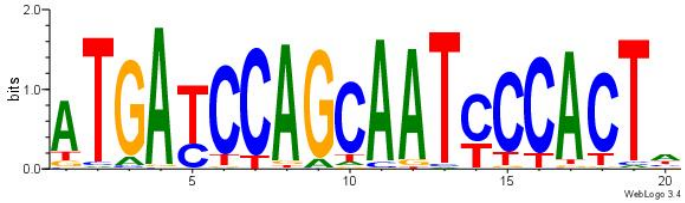

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

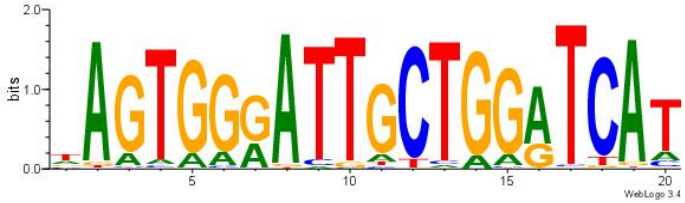

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.147803

Alignment:
GTAACACTCACCGCGARGGT
KACGGGCTTAARAAACGGC-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

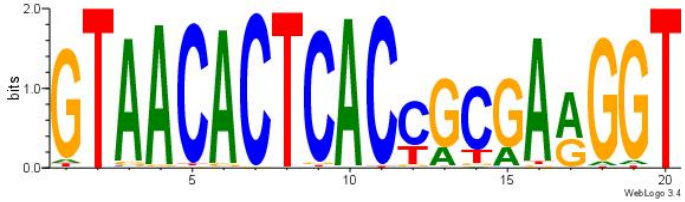

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

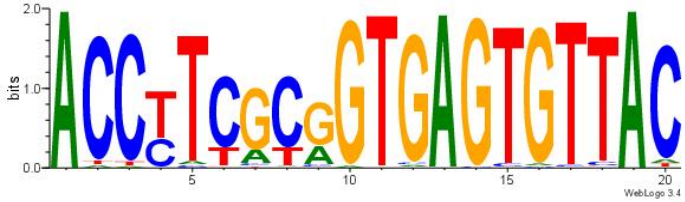

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.148078

Alignment:
TGGCTTCACCCAGTGGATCC
GCCGTTTKTTAAGCCCGTY-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

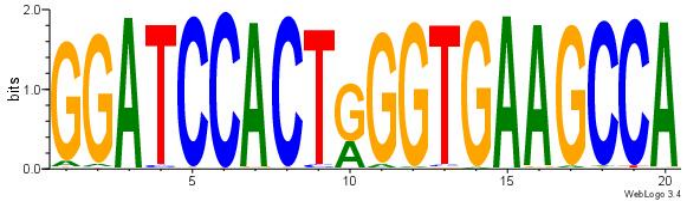

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

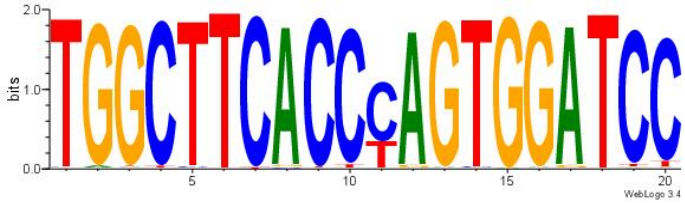

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.148758

Alignment:

```
ATTGGTGTATTTACAATCCC
-GCCGTTTKTTAAGCCCGTY
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

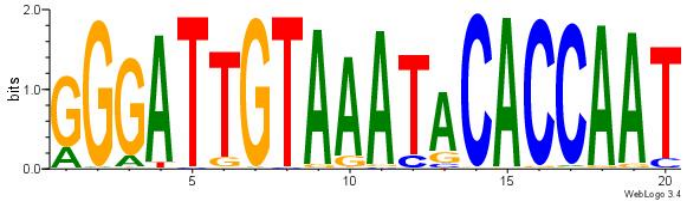

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148948

Alignment:

```
ACTTTGGACTGTGGACTTTT
GCCGTTTKTTAAGCCCGTY-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

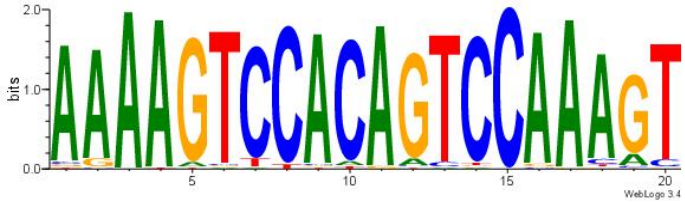

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

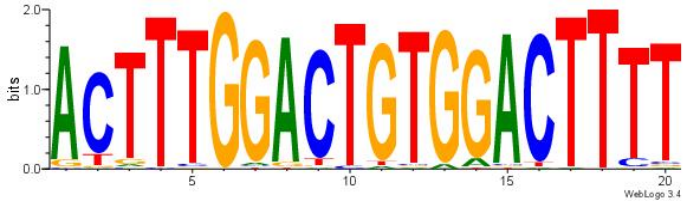

Dataset #: 1 Motif ID: 22 Motif name: Motif 22

Original motif Consensus sequence: ATCTCAGACKRY

Reverse complement motif Consensus sequence: KMRGTCTGAGAT

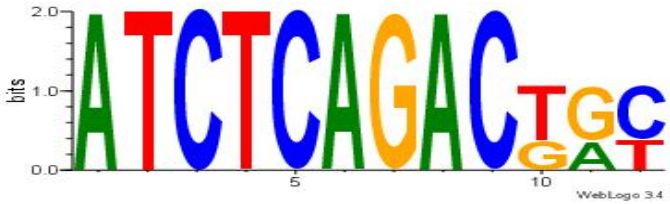

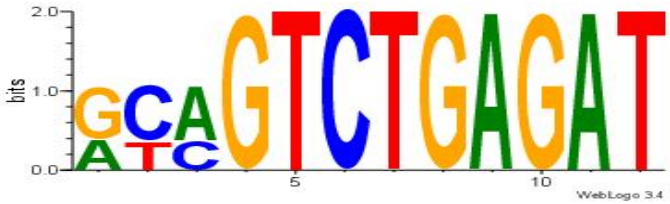

Best Matches for Motif ID 22 (Highest to Lowest)

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0496789

Alignment:

```
ACATCCCAGACGATGGGCG
--ATCTCAGACKRY-----
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

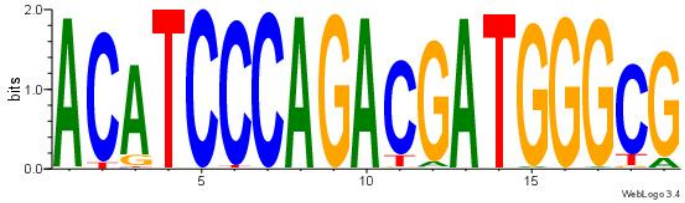

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

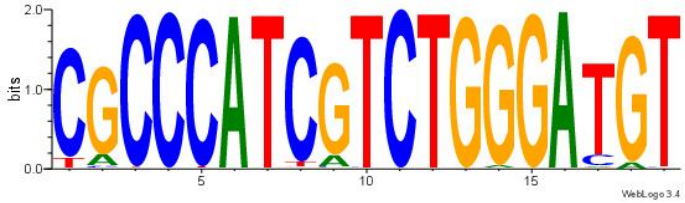

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0600848

Alignment:

```
TAGTGGTGATTTSTGAGAT
-------KMRGTCTGAGAT
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

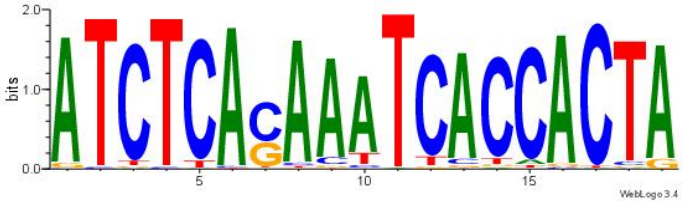

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

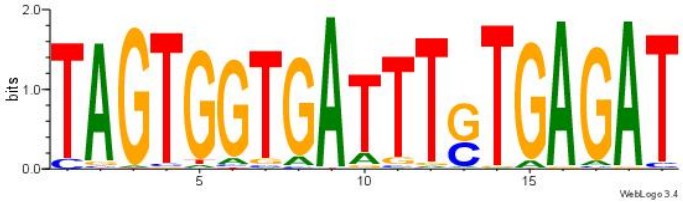

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 12
Similarity score: 0.0627798

Alignment:
CACTTCCCAGACGGGGCG
---ATCTCAGACKRY---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

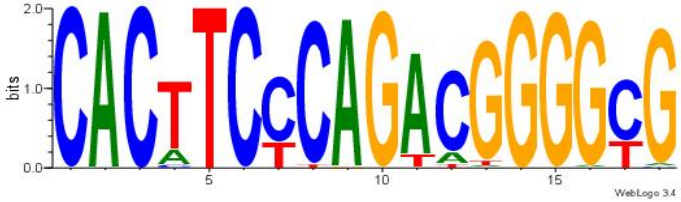

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

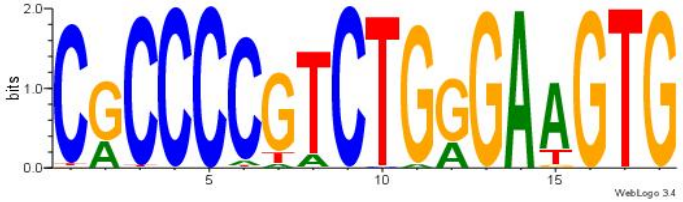

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0718284

Alignment:
CCCATGCAAGTCYRAAATCC
------KMRGTCTGAGAT--

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

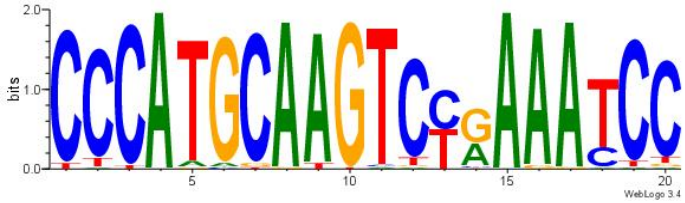

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

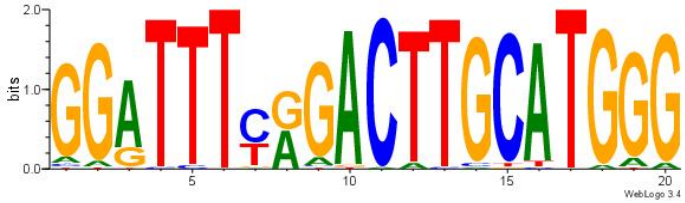

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0718827

Alignment:

```
ATTCAASATGAGATTTGGG
--KMRGTCTGAGAT-----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

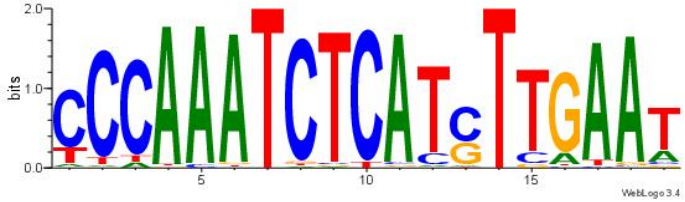

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

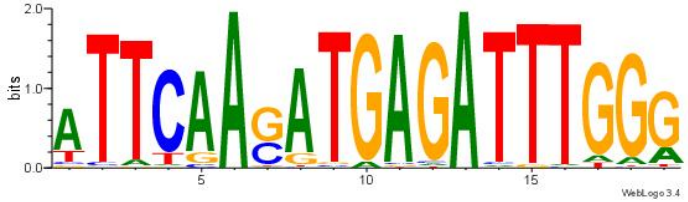

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0720641

Alignment:

```
CACCTCCCAGACMGGGT
---ATCTCAGACKRY--
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

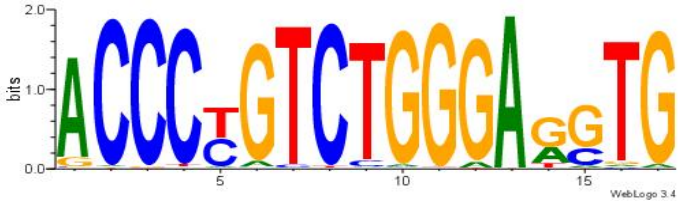

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

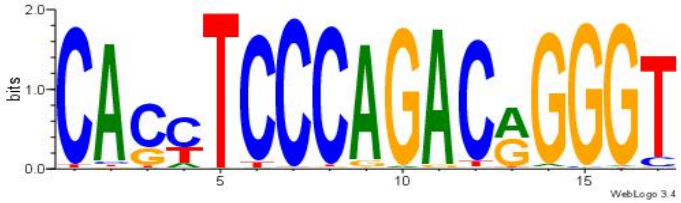

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 12
Similarity score: 0.0725417

Alignment:
CCTAGATTTCAGARGATGT
-----ATCTCAGACKRY--

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

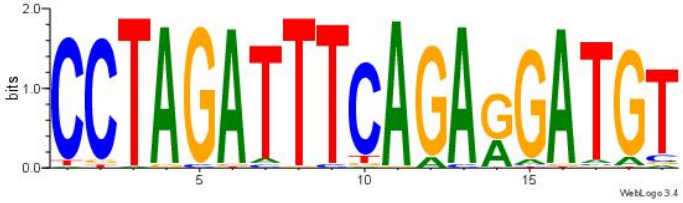

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

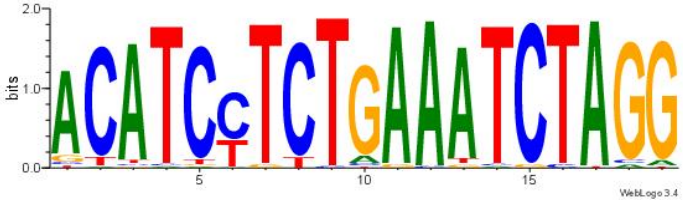

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.0741314

Alignment:
AAATTACCCAGTCTCAGGTA
-------KMRGTCTGAGAT-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

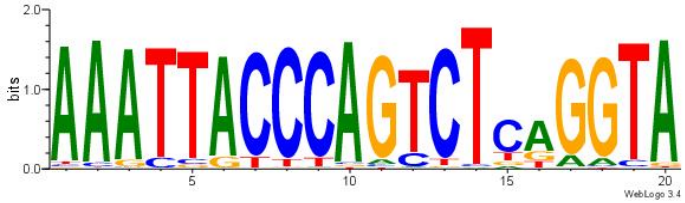

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

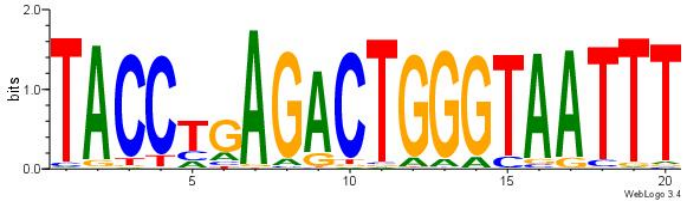

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0750618

Alignment:

```
CATTTCCAWCTGAGGTAC
----KMRGTCTGAGAT--
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

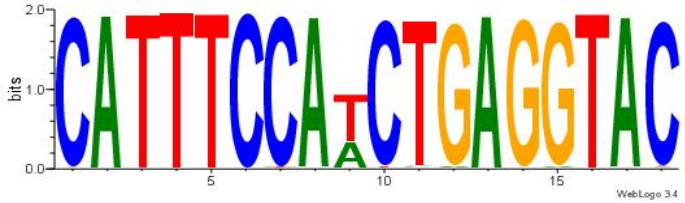

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

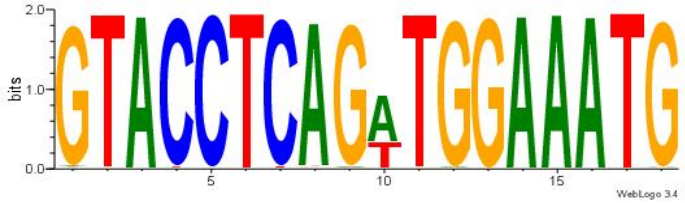

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0793795

Alignment:

```
CMGCTCCGAGTGCGG
-ATCTCAGACKRY--
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

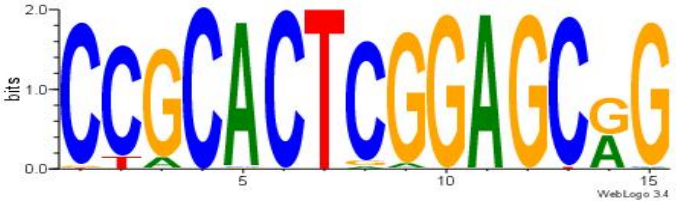

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

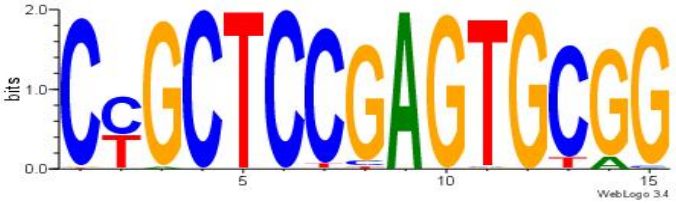

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 12
Similarity score: 0.0802206

Alignment:
TTTCTTTGACTRG
-ATCTCAGACKRY

Original motif Consensus sequence: CKAGTCAAAGAAA

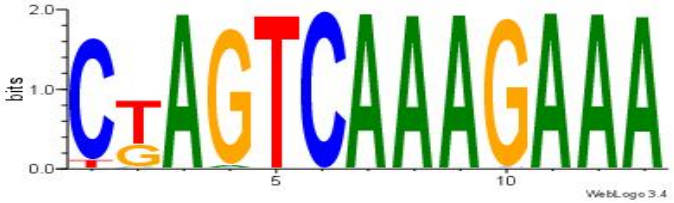

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

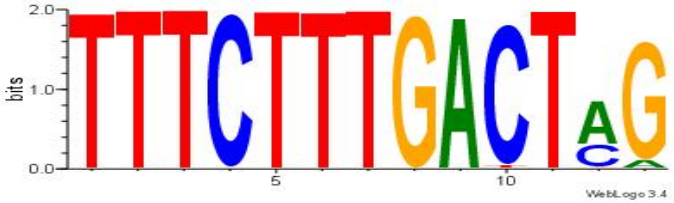

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0802703

Alignment:
CTCCTGCCTCAGCCTCCCRA
-----ATCTCAGACKRY---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

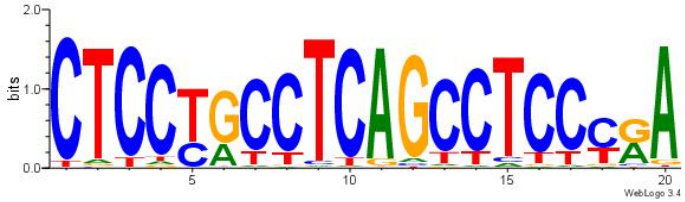

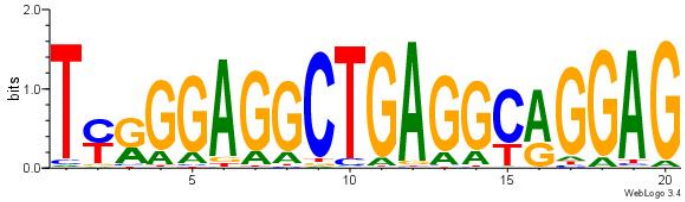

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0809239

Alignment:

```
TGCCCAGTCTGGAAAGTG
---KMRGTCTGAGAT---
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

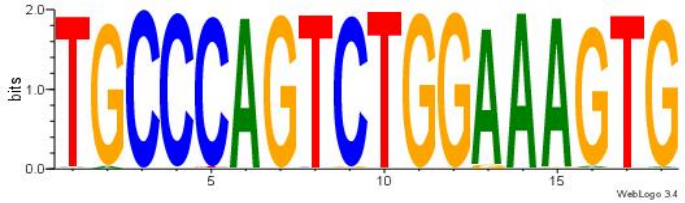

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

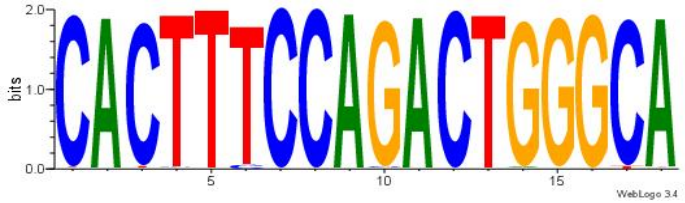

Dataset #: 1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0824239

Alignment:

```
GGTGCCCCTCTGGGACRAA
----KMRGTCTGAGAT---
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

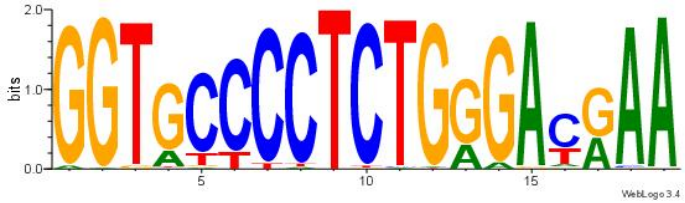

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

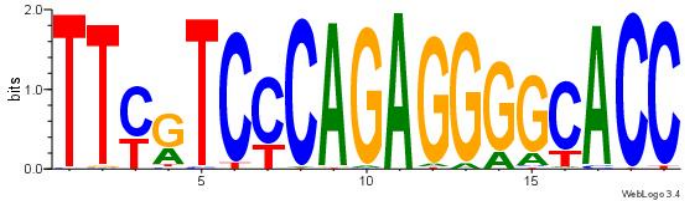

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0827624

Alignment:
TTTAACTCTGTGAG
--KMRGTCTGAGAT

Original motif Consensus sequence: CTCACAGAGTTAAA

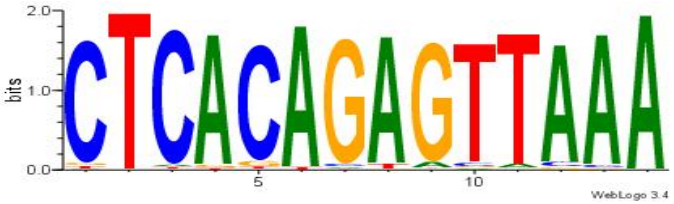

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

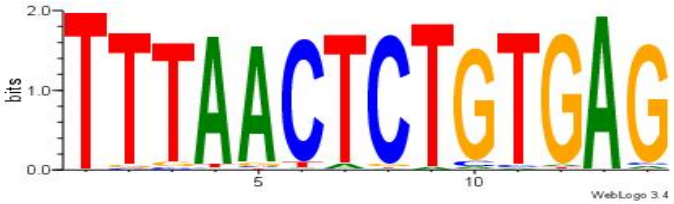

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0837459

Alignment:
AAGCTCGAACTGGGTGGAGC
-ATCTCAGACKRY-------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

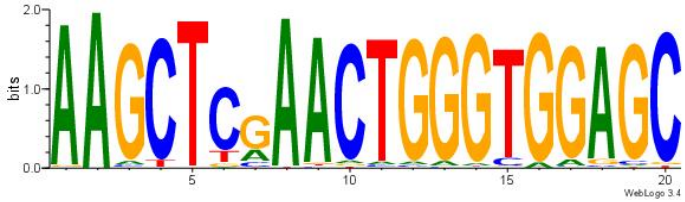

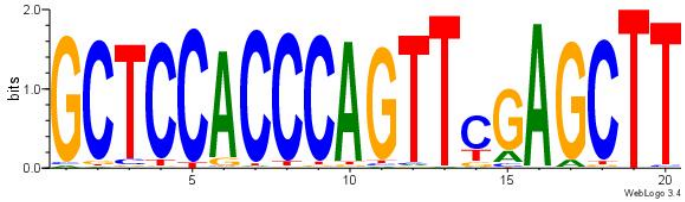

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0838628

Alignment:

```
AGAGTCTCACTCTGT
---ATCTCAGACKRY
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

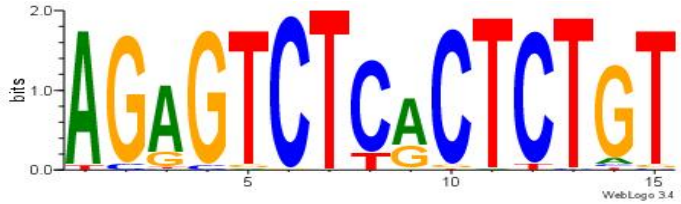

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

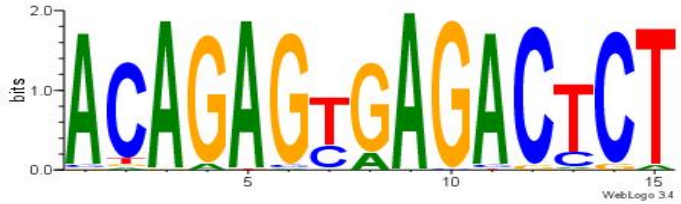

Dataset #:	1
Motif ID:	165

Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0843144

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
ATCTCAGACKRY--------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

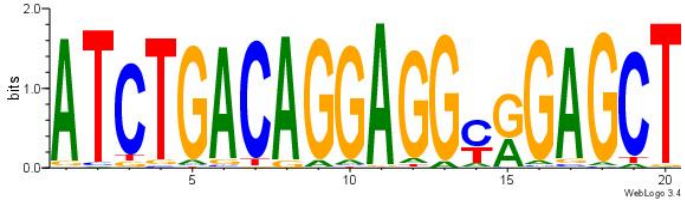

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

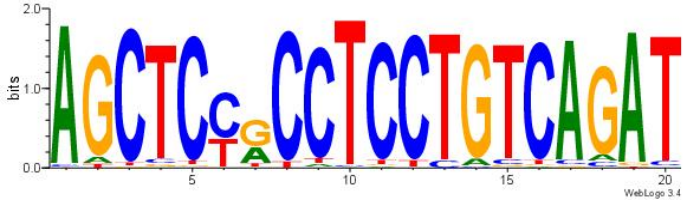

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0845283

Alignment:
GAGCTTTAAGATTT
KMRGTCTGAGAT--

Original motif Consensus sequence: AAATCTTAAAGCTC

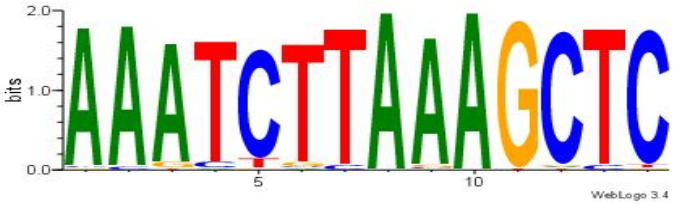

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

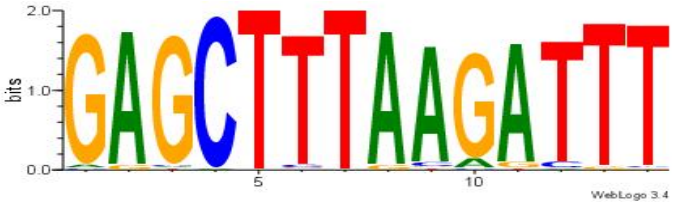

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0857297

Alignment:
AGGCCCCAGTGTSTGTTGTT
-----KMRGTCTGAGAT---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

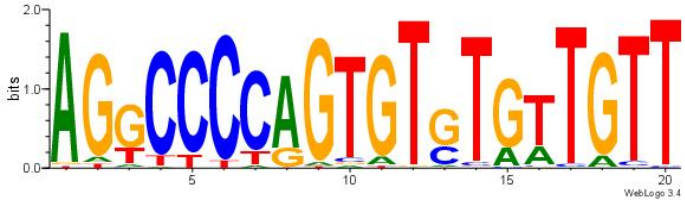

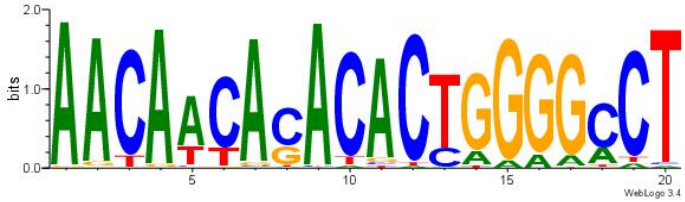

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0858264

Alignment:

```
TAAGTGGGAGCTAARC
KMRGTCTGAGAT----
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

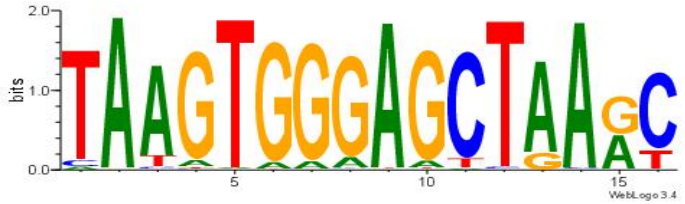

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

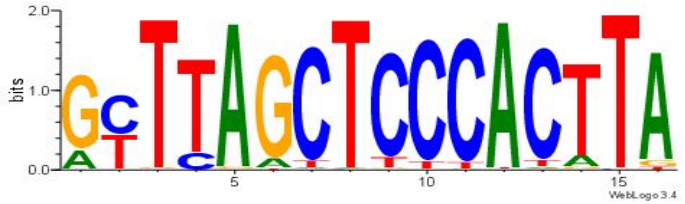

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0862128

Alignment:

```
AGAGCTCTGGCTGGCATCT
-----KMRGTCTGAGAT--
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

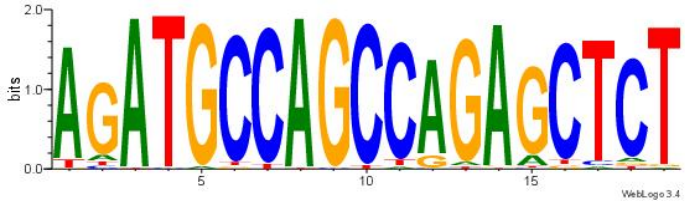

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

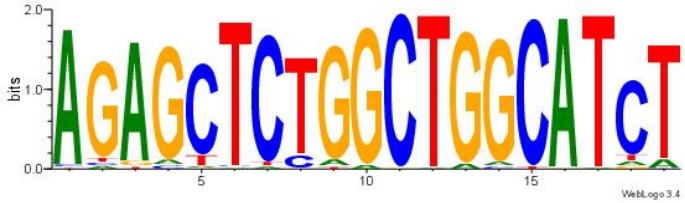

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0873514

Alignment:
CCTCCCSGACGRG
-ATCTCAGACKRY

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

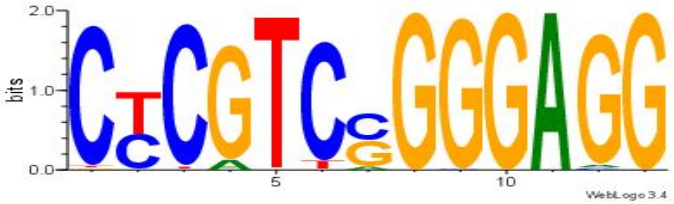

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0877446

Alignment:
GGTTCATCTCACTAGGGAGT
-----ATCTCAGACKRY---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

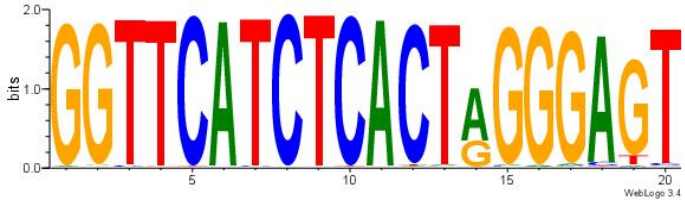

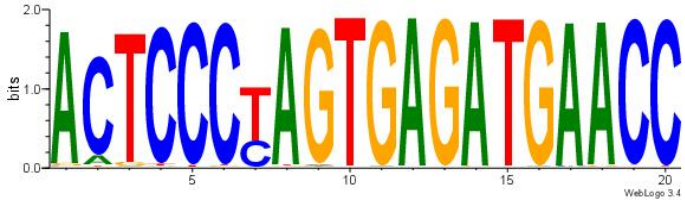

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0888341

Alignment:

```
CTCCCAGCCGCCTG
ATCTCAGACKRY--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

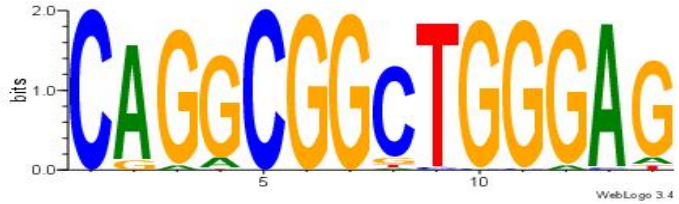

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

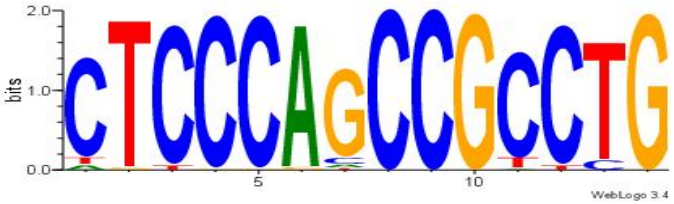

Dataset #:	1
Motif ID:	189

Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0889265

Alignment:

```
ATCCAGTCTATCATTG
--KMRGTCTGAGAT--
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

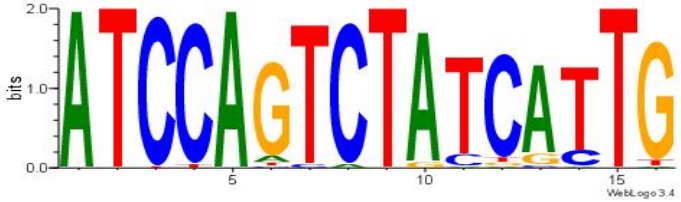

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0889695

Alignment:
CAAAGTCTTAACTCATT
-KMRGTCTGAGAT----

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

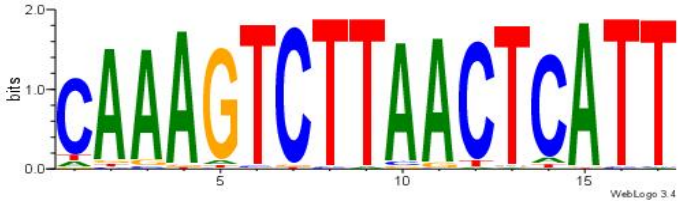

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0891476

Alignment:
ACCKTCGCGGTGAGTGTTAC
------KMRGTCTGAGAT--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

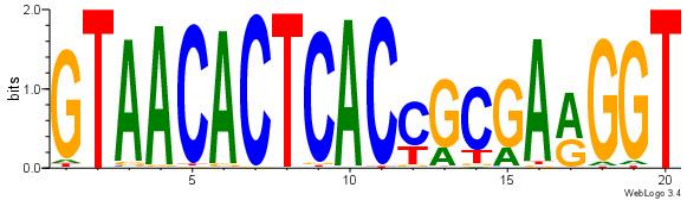

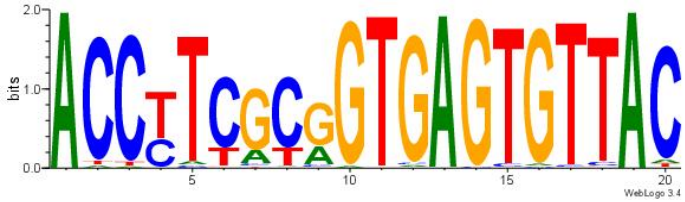

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0897245

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-----KMRGTCTGAGAT---
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

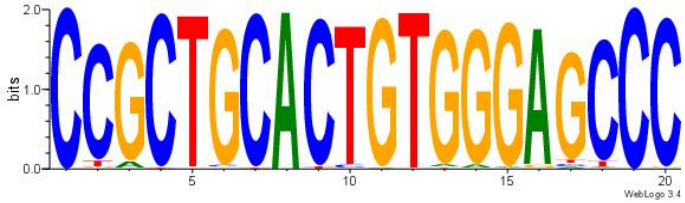

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

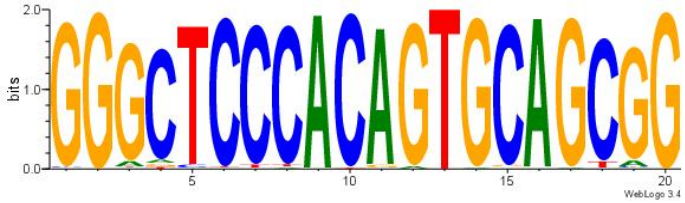

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0900978

Alignment:

```
GCCAGGCAGAGRGKCTCCT
-KMRGTCTGAGAT------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

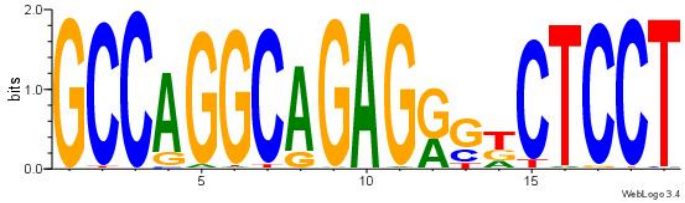

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

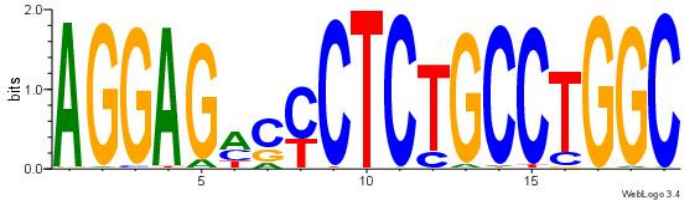

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0901403

Alignment:
CATGGCGGGCTGCAGGTC
-ATCTCAGACKRY-----

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

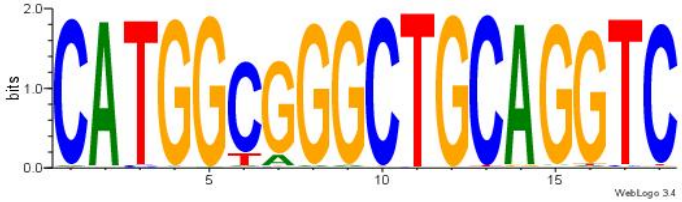

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

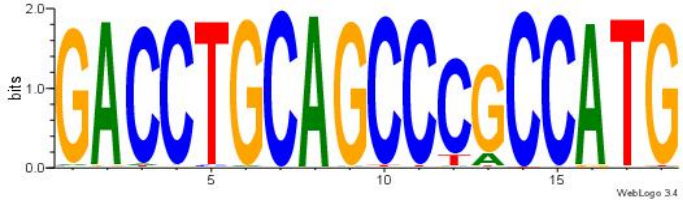

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0905192

Alignment:
GTAGCTGGGAYTACA
--ATCTCAGACKRY-

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

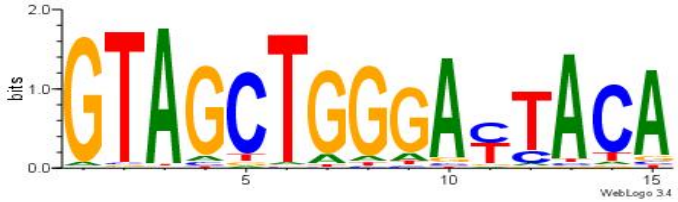

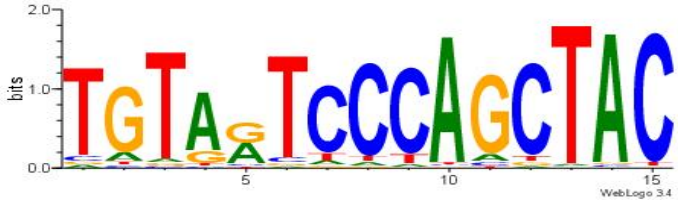

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0911266

Alignment:

```
CGTCGCTCACGCTGGGAGCT
------KMRGTCTGAGAT--
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

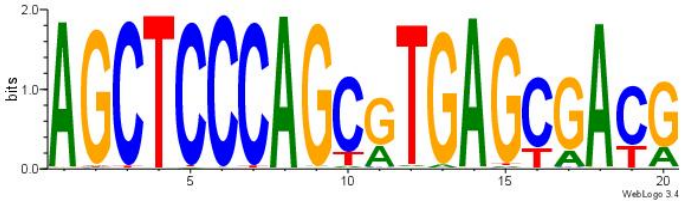

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

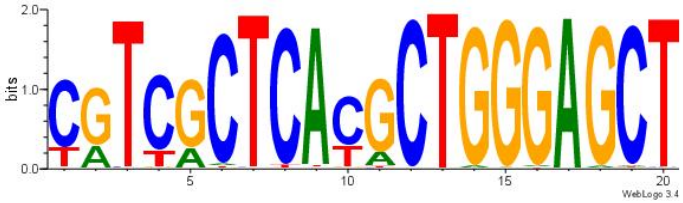

Dataset #: 1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0916433

Alignment:

```
CAAGGTCTGATTGTW
--ATCTCAGACKRY-
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

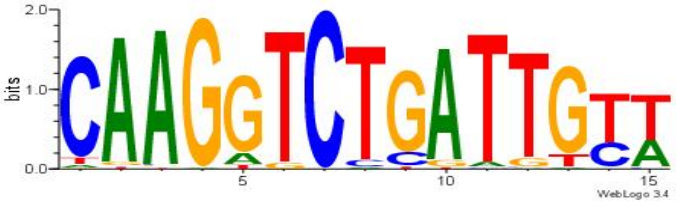

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0919976

Alignment:
CTTCGCTGACTCTCTTT
-ATCTCAGACKRY----

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

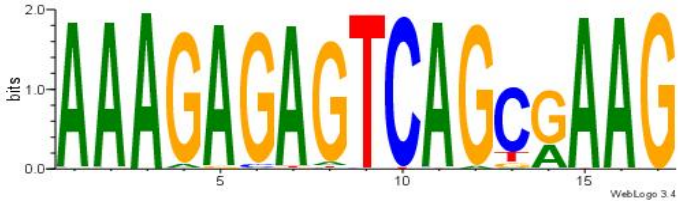

Reverse complement motif Consensus sequence:
CTTCGCTGACTCTCTTT

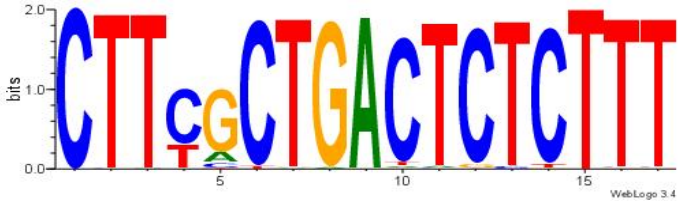

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0922828

Alignment:
GCTGCARTCTCGGCACTTT
---KMRGTCTGAGAT----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

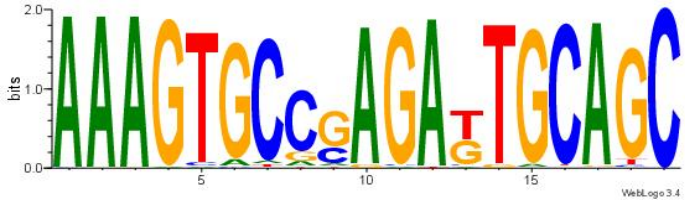

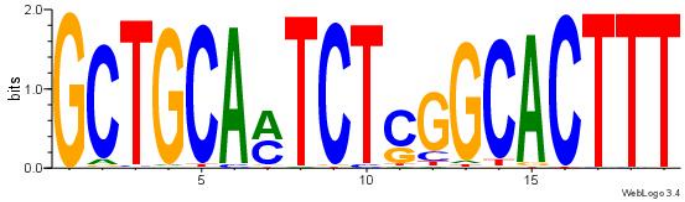

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.093121

Alignment:

```
TGTTATGCCTGAAAGT
---KMRGTCTGAGAT-
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

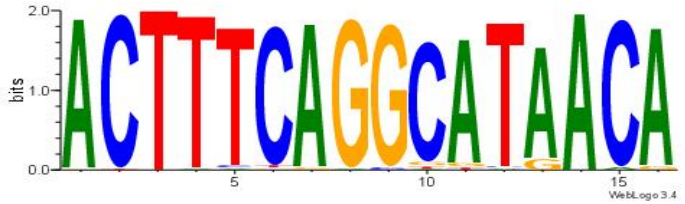

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

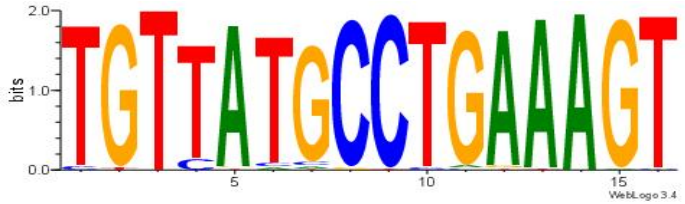

Dataset #: 1

Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0942243

Alignment:

```
CCTCCCAGCCGCCT
-ATCTCAGACKRY-
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

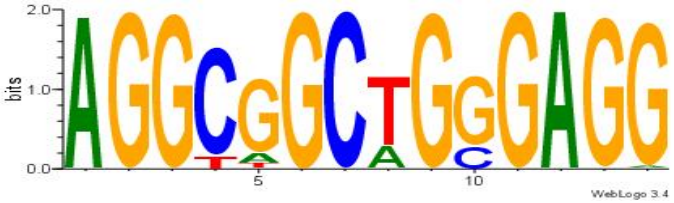

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0946132

Alignment:
GCCGTTTKTTAAGCCCGTY
------ATCTCAGACKRY-

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

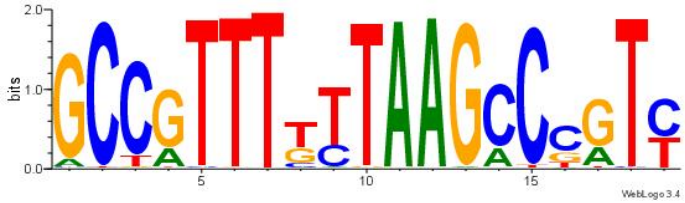

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

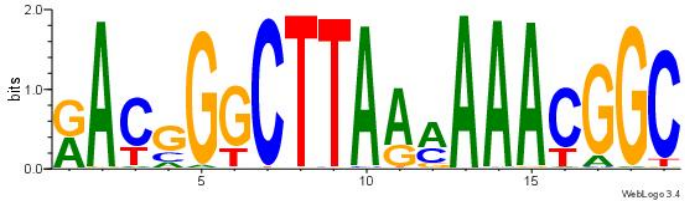

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.094926

Alignment:
GAATCCTGGGACAGCCTGT
KMRGTCTGAGAT-------

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

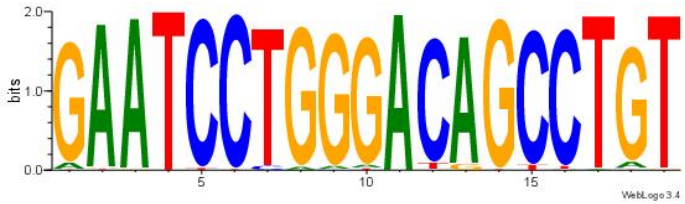

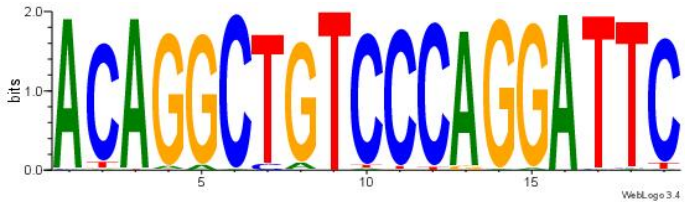

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0954345

Alignment:

```
TCCCTCCCGGACGGGGYGGC
---ATCTCAGACKRY-----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

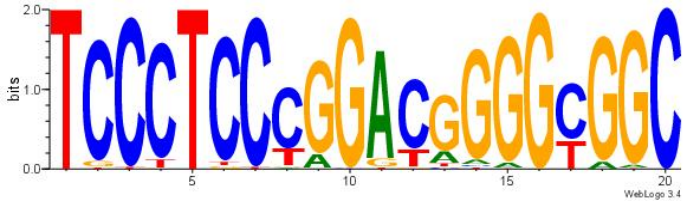

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

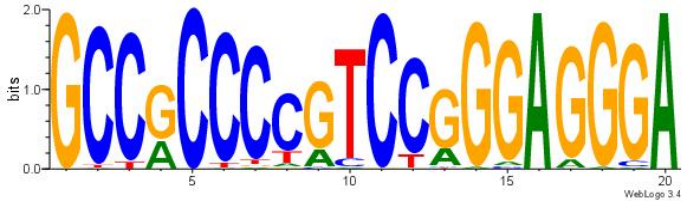

Dataset #:	1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0959405

Alignment:

```
AAYRGACTAATACA
-KMRGTCTGAGAT-
```

Original motif Consensus sequence: AAYRGACTAATACA

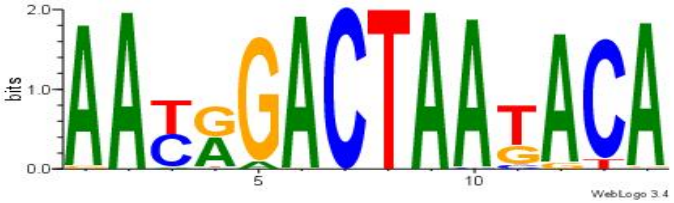

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

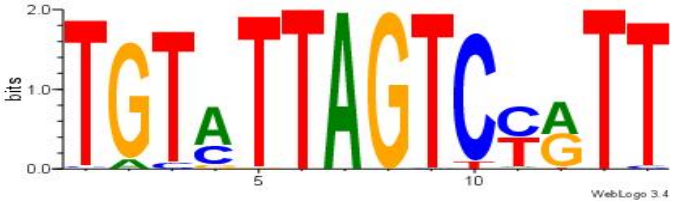

Dataset #:	1
Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0964298

Alignment:
ATCTGAGGTACCG
ATCTCAGACKRY-

Original motif Consensus sequence: ATCTGAGGTACCG

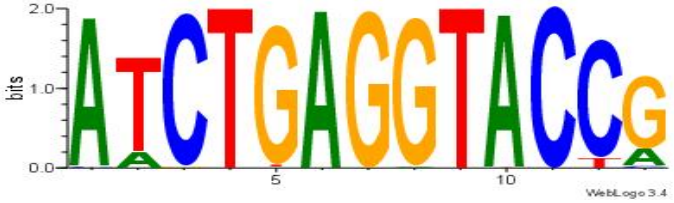

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

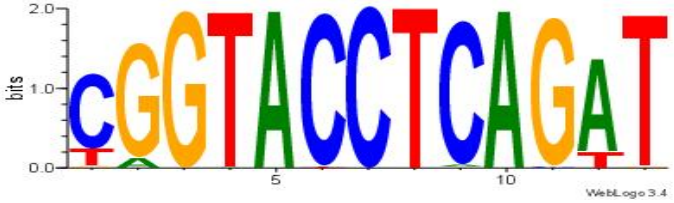

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0968825

Alignment:
ACTTTGGACTGTGGACTTTT
ATCTCAGACKRY--------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

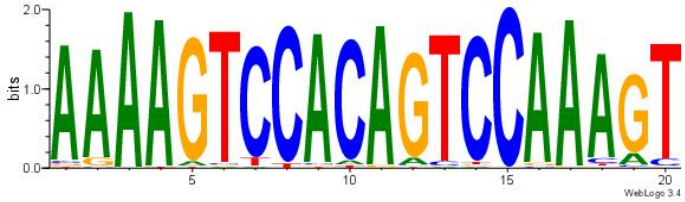

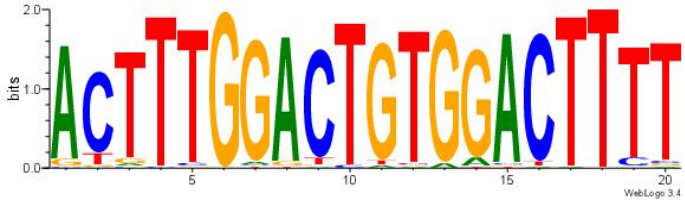

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0971021

Alignment:

```
ATGGCCTATGACYGSTTTG
---ATCTCAGACKRY----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

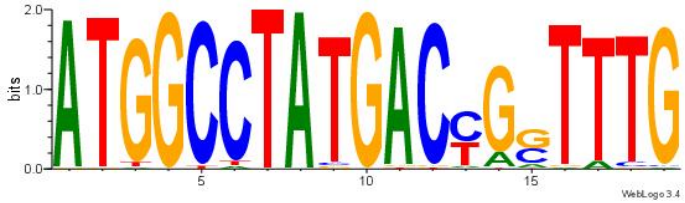

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

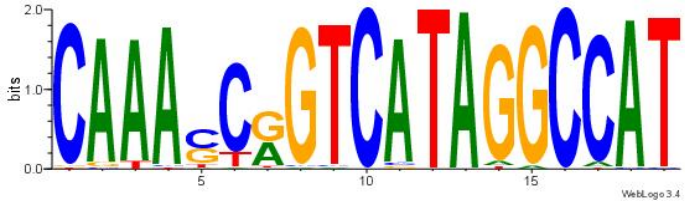

Dataset #:	1

Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0971467

Alignment:

```
CTGTCAGCCCAT
ATCTCAGACKRY
```

Original motif Consensus sequence: CTGTCAGCCCAT

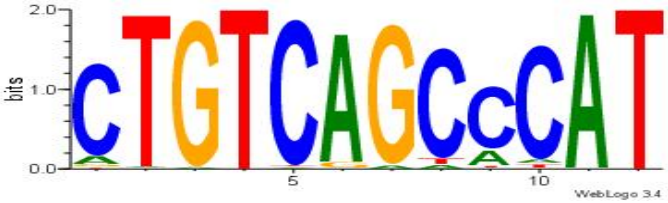

Reverse complement motif Consensus sequence: ATGGGCTGACAG

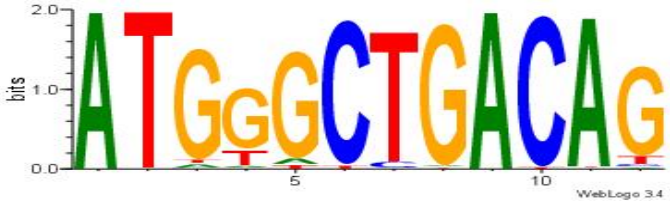

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0973018

Alignment:
CCATCTAGGAAGTG
--ATCTCAGACKRY

Original motif Consensus sequence: CACTTCCTAGATGG

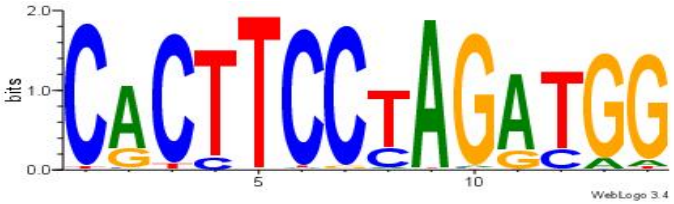

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

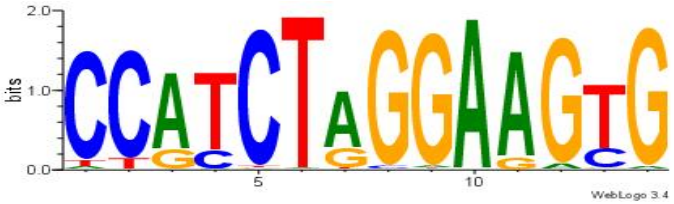

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.09742

Alignment:
KCAGTGTACACTGM
KMRGTCTGAGAT--

Original motif Consensus sequence: RCAGTGTACACTGY

Reverse complement motif Consensus sequence: KCAGTGTACACTG

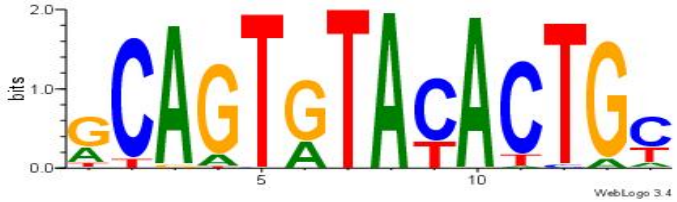

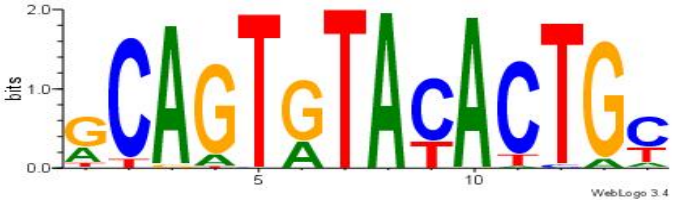

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0984323

Alignment:

```
GCTCTCAATTGGTCATT
-ATCTCAGACKRY----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

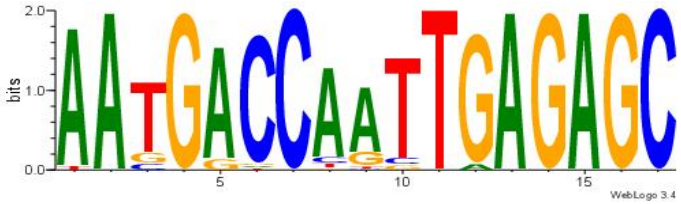

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

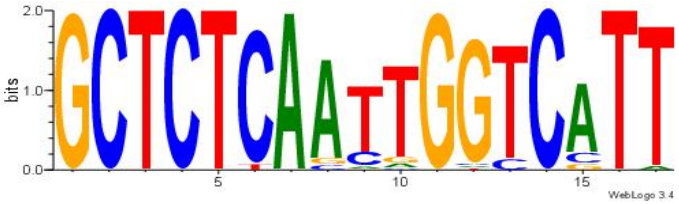

Dataset #: 1

Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0992012

Alignment:

```
AGTGTTTCCAAMCTGCT
----ATCTCAGACKRY-
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

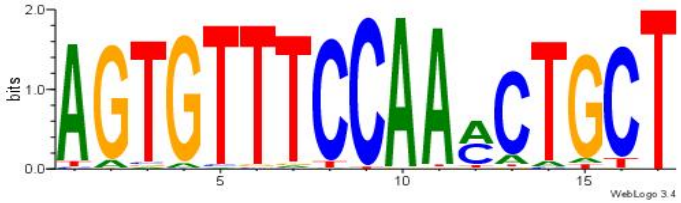

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

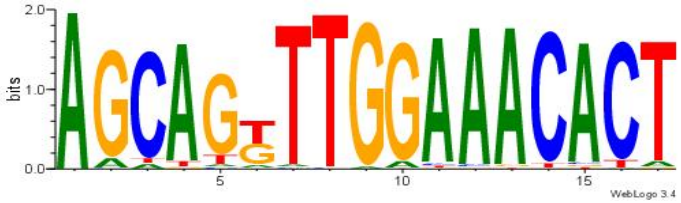

Dataset #: 1 Motif ID: 23 Motif name: Motif 23

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

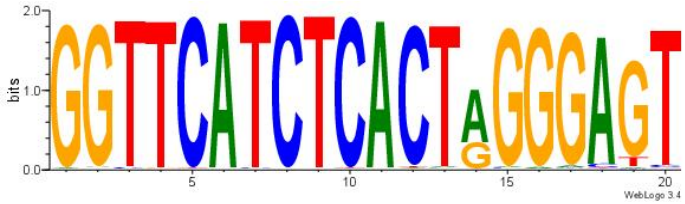

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

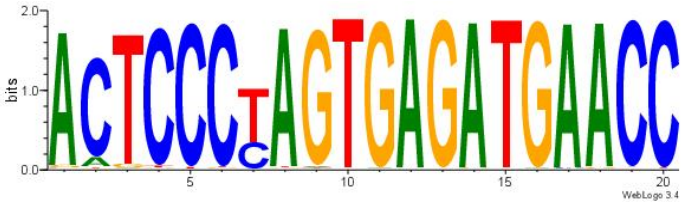

Best Matches for Motif ID 23 (Highest to Lowest)

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116157

Alignment:
AGCTCCCAGCGTGAGCGACG
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

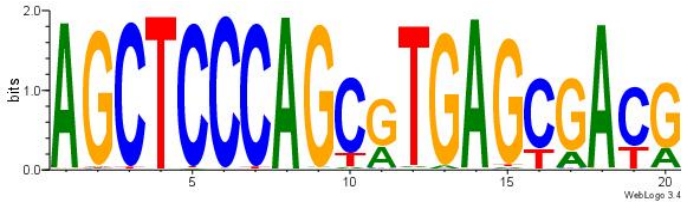

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

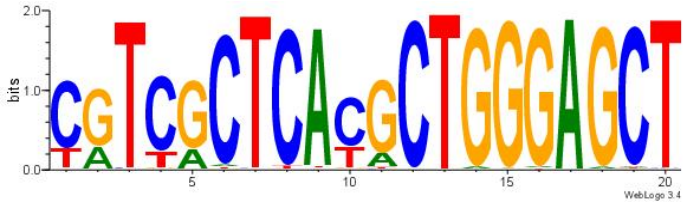

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123973

Alignment:
GCCTCCTTGAGCTGTGGTGG
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

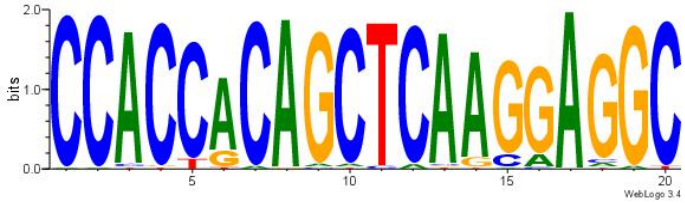

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

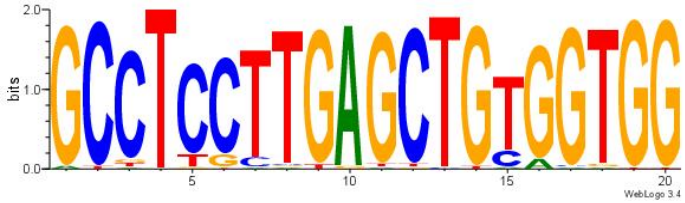

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124427

Alignment:
GCTCCACCCAGTTCGAGCTT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

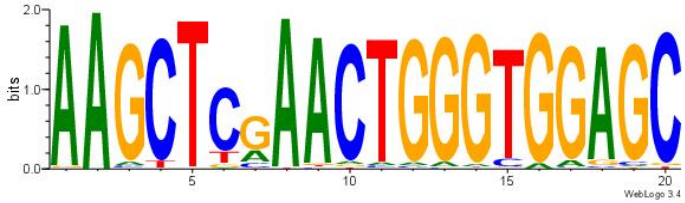

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

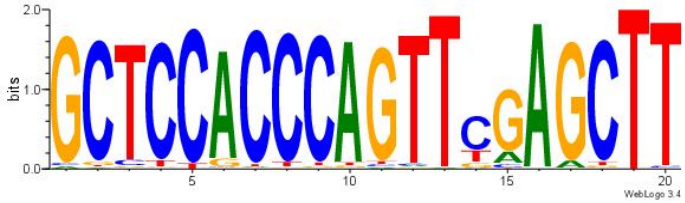

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127278

Alignment:

```
TCKMGCCACTGCACTCCAGC
ACTCCCTAGTGAGATGAACC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

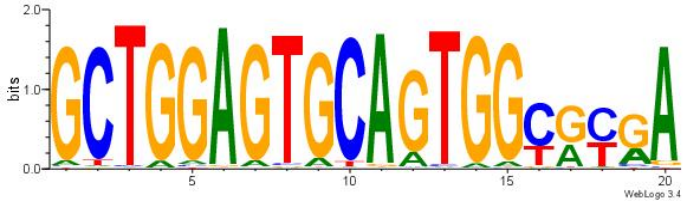

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

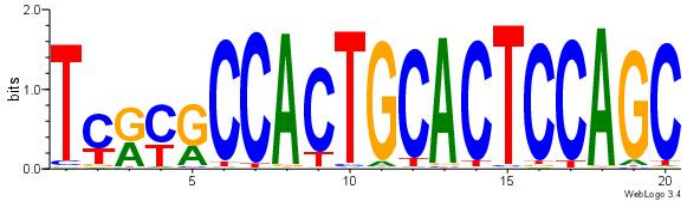

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129596

Alignment:
AACAACASACACTGGGGCCT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

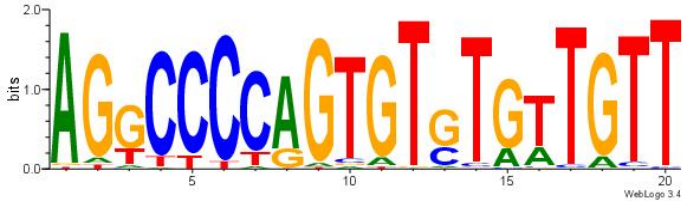

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

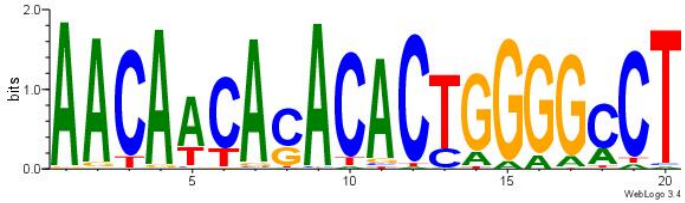

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.132788

Alignment:
KKCACCTTGATCTTGGACTT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

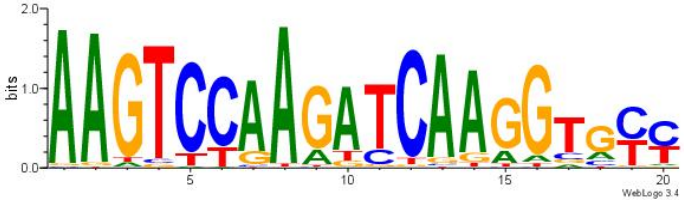

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

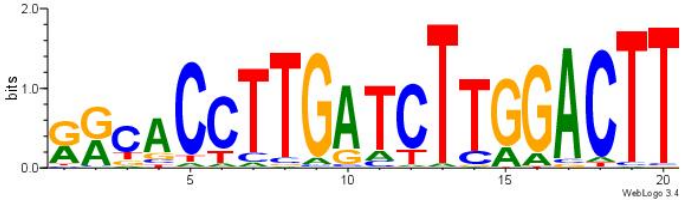

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133356

Alignment:
GGTGGAGCTGCCTGCCAGTC
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

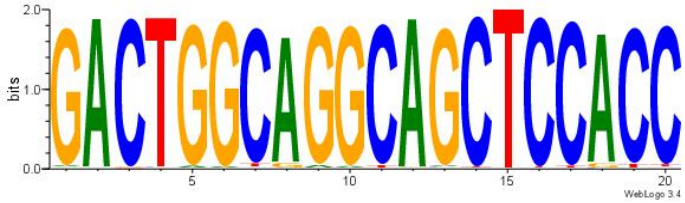

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

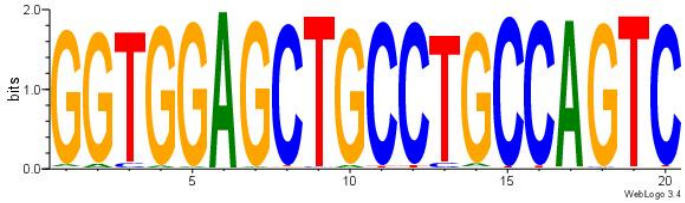

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133494

Alignment:

```
GGGCTCCCACAGTGCAGCGG
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

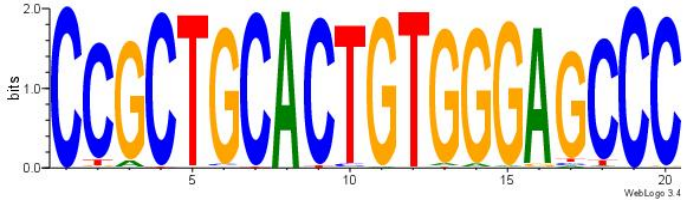

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

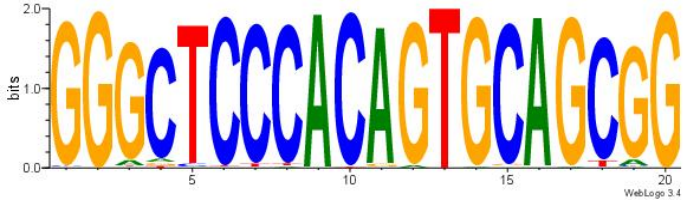

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134188

Alignment:
GGATCCACTGGGTGAAGCCA
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

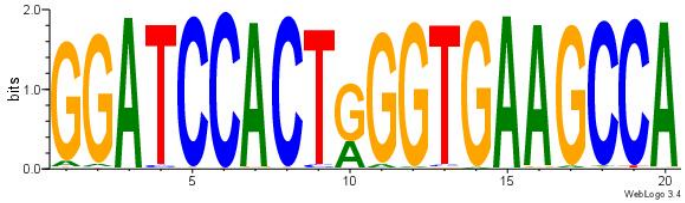

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

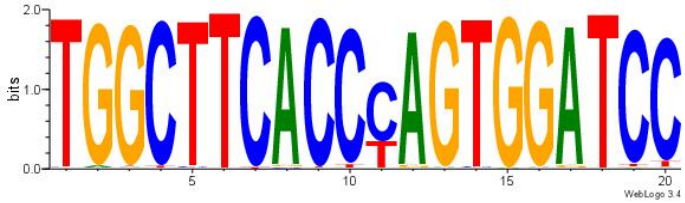

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.134992

Alignment:
GCTGTGTGACCTTGGGCAAG
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

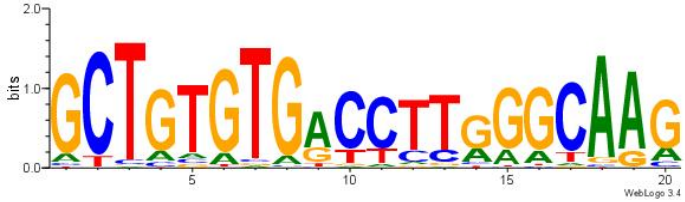

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

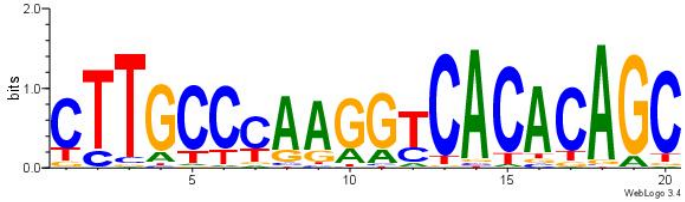

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13508

Alignment:
GCGCTCKTCGGGGAGGCTCG
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

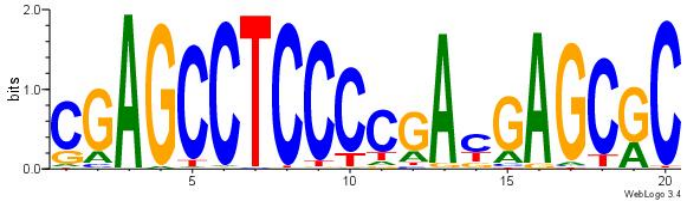

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

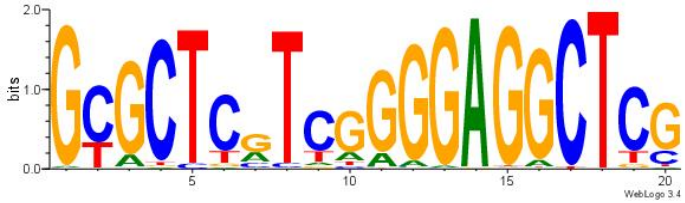

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136002

Alignment:

```
GAAACTGCTTTGTGATGTGT
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

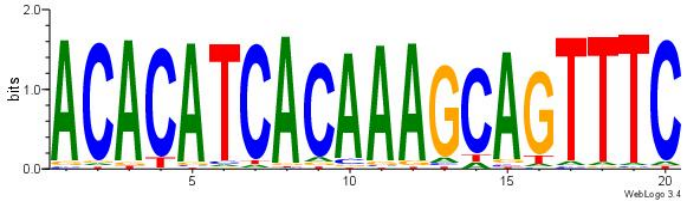

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

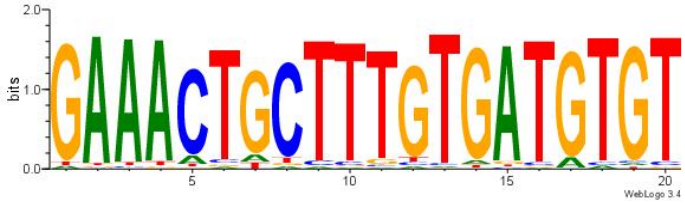

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13621

Alignment:
CATTCTGGGGTCTGGAGGAY
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

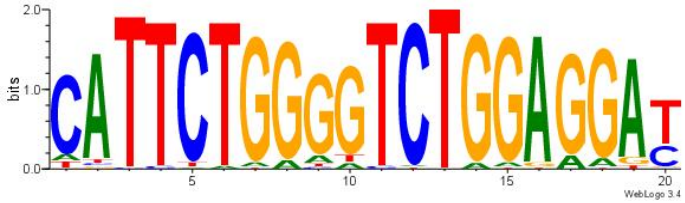

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

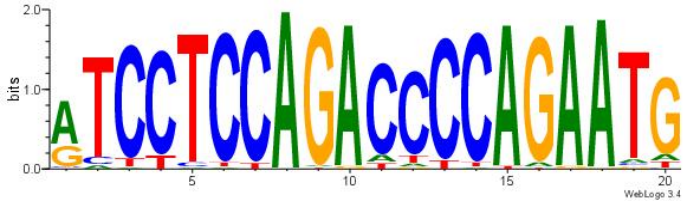

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.136734

Alignment:
TWTACCTATGTAACAAACCT
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

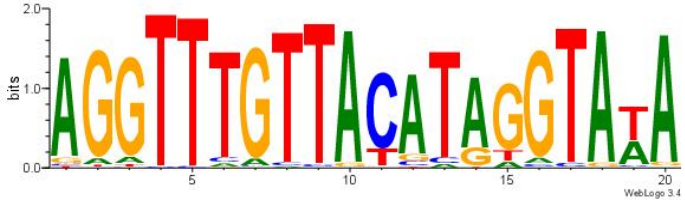

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

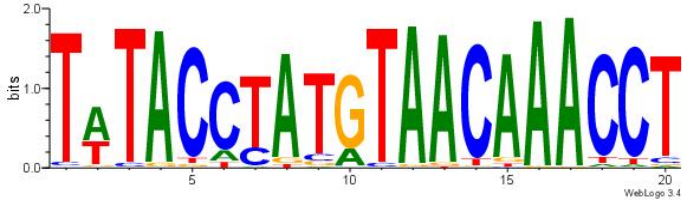

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137916

Alignment:
GAAHCAACCKAAKTGTCCAT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

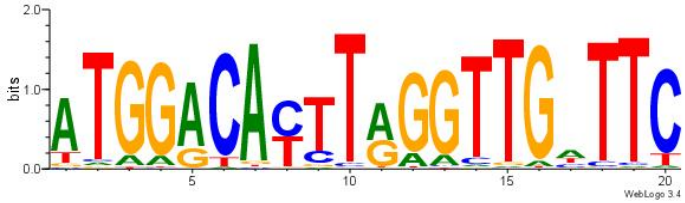

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

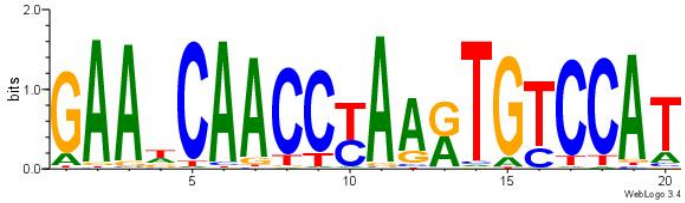

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138028

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

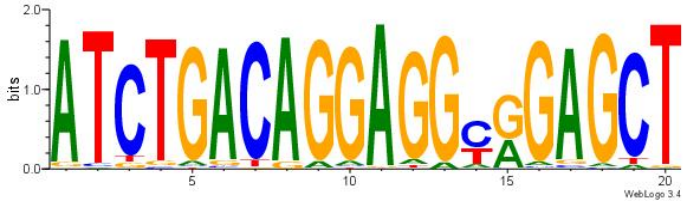

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

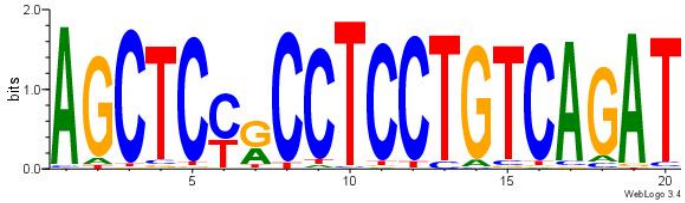

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141811

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

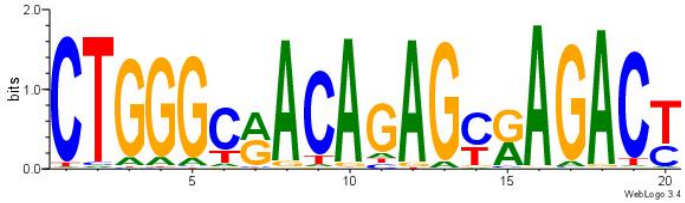

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

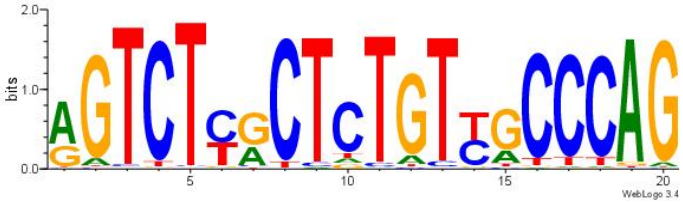

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.141877

Alignment:
CGCGGCGCTTGCGGGCCAGC
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

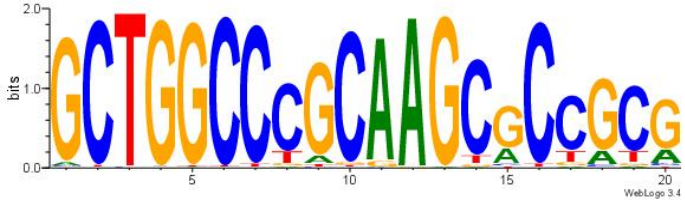

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

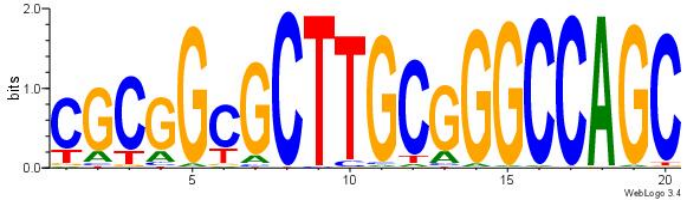

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142948

Alignment:
GCCKCCCCGTCCGGGAGGGA
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

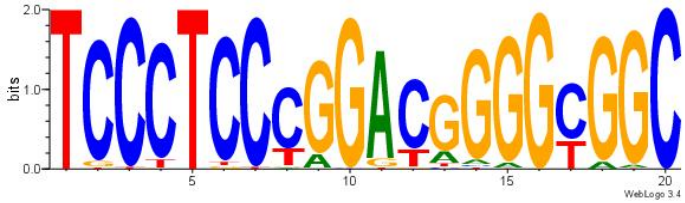

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

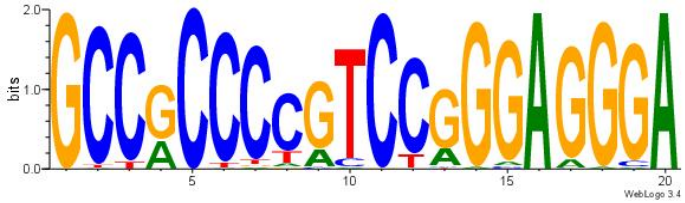

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144637

Alignment:

```
AAGACCTTCCAGTGGGACAA
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

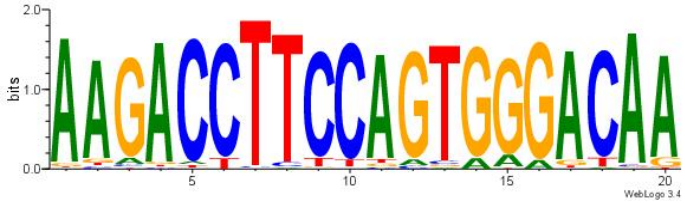

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

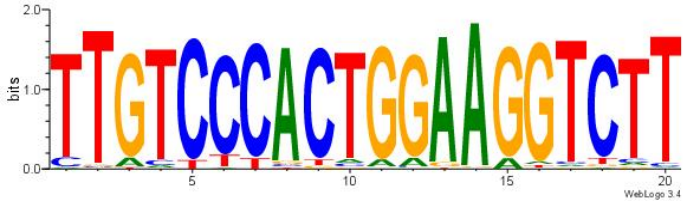

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145212

Alignment:
ATCRCTTGAGSYCAGGAGKT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

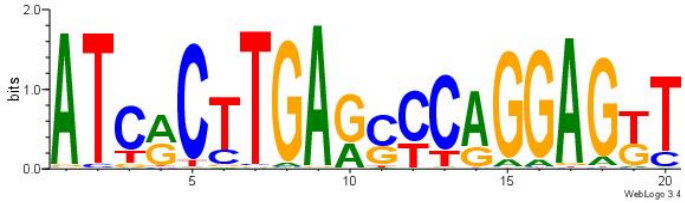

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

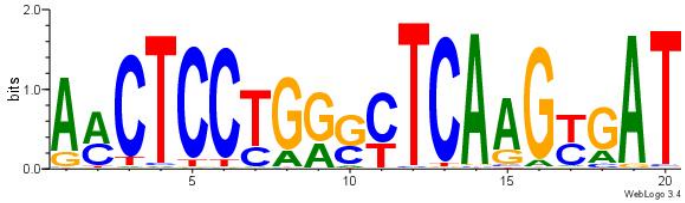

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.145637

Alignment:
AGCCYCTGGYAACCAYYAWT
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

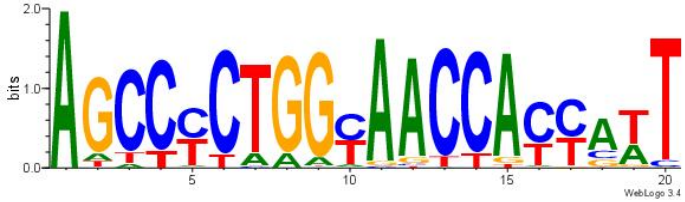

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

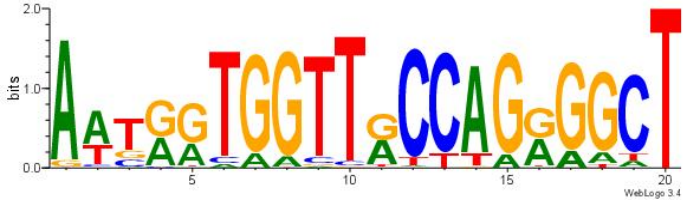

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145935

Alignment:
CTGACTGGGAGACACCTCCC
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

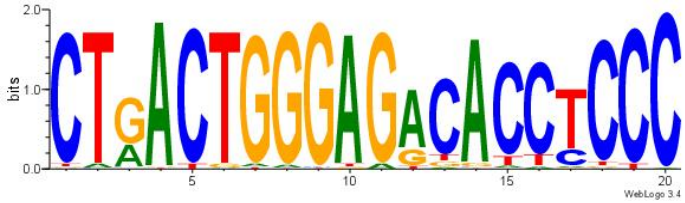

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

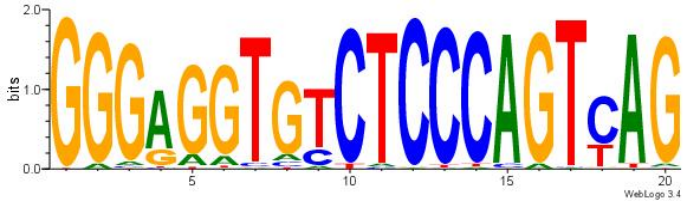

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146993

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
ACTCCCTAGTGAGATGAACC
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

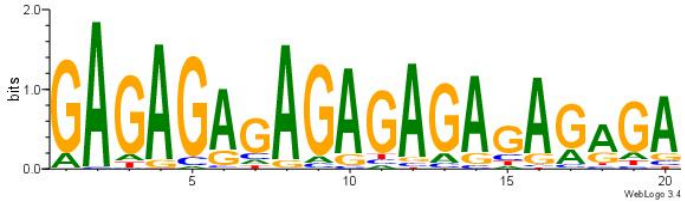

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

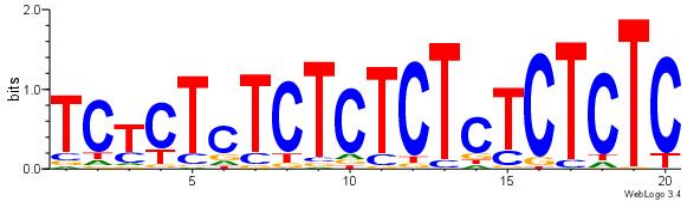

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148803

Alignment:
ACTTTGGACTGTGGACTTTT
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

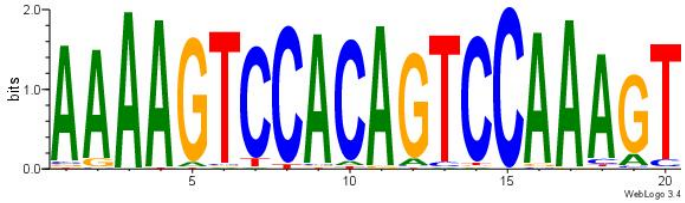

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

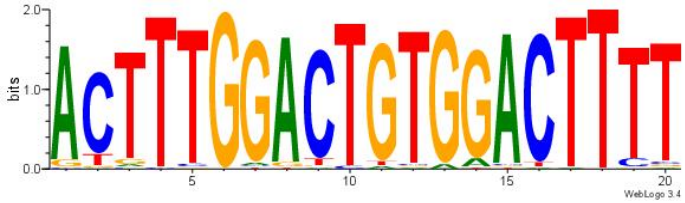

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.148949

Alignment:
AGAGCCAAATCATGARTGAA
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

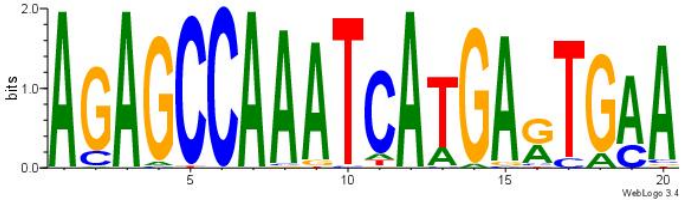

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

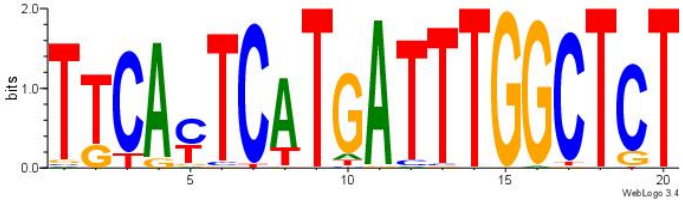

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149178

Alignment:
ACCKTCGCGGTGAGTGTTAC
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

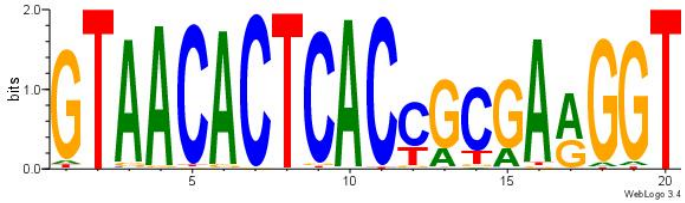

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

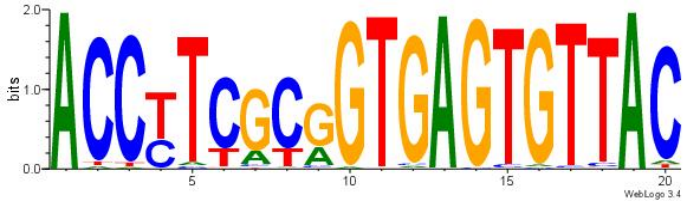

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151786

Alignment:

```
CAAGCCTSKGCAATGGCAGG
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

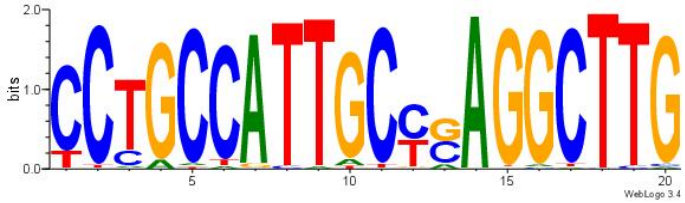

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

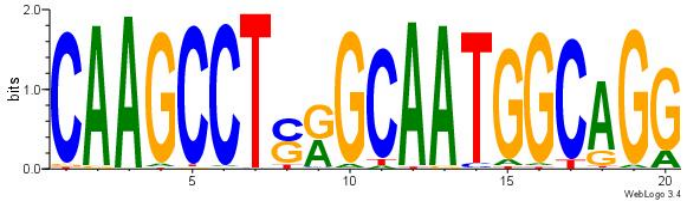

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152088

Alignment:
GTCTCWAMAAAAAAWAMAAA
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

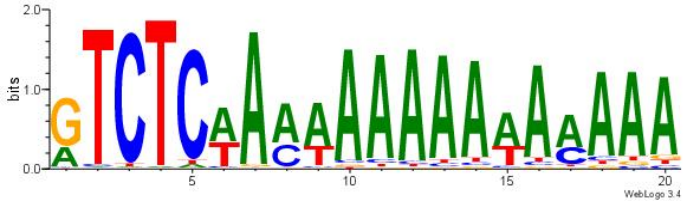

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

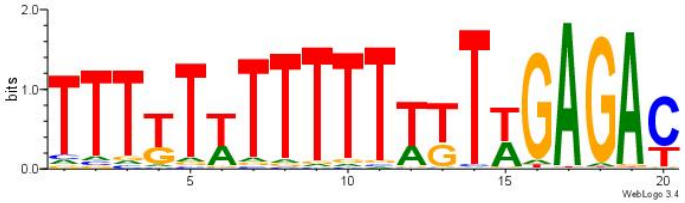

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.152471

Alignment:
ATTGATMKCCAGGGTTGATT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

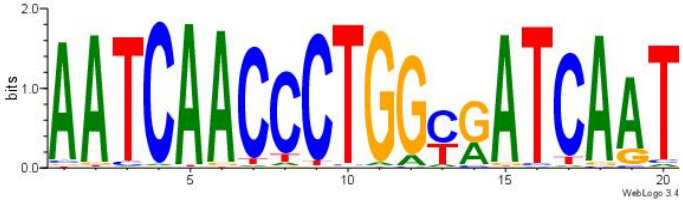

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

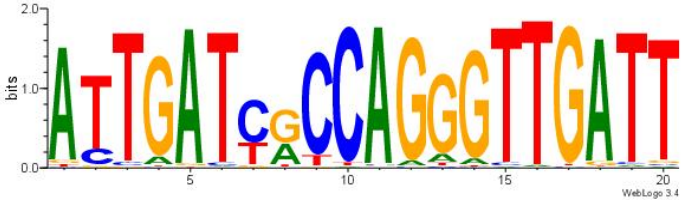

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152749

Alignment:
AGGTCCTTCAGGAGGTATTC
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

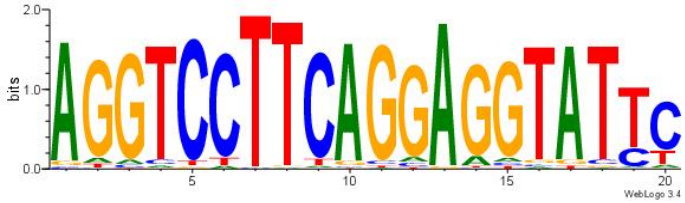

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

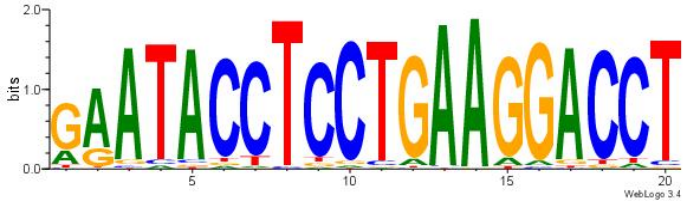

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153028

Alignment:

```
GTTTAACCATTGAGGGCCAG
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

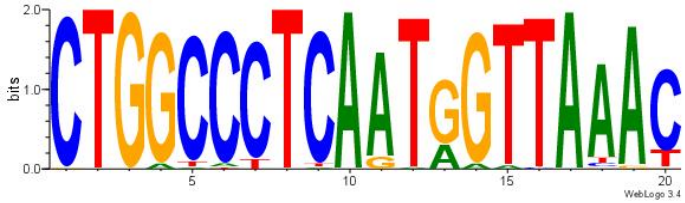

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

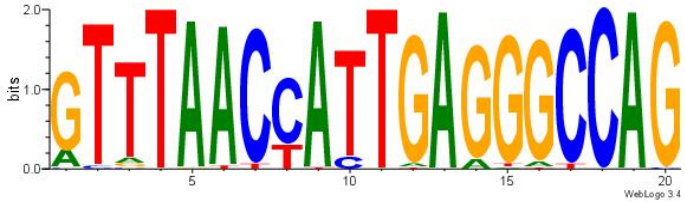

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153806

Alignment:
HAGTGGKATTGCTGGATCAT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

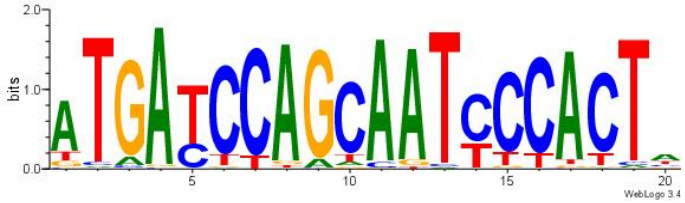

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

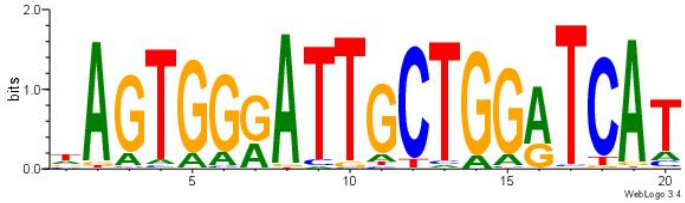

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.153947

Alignment:
GGGTCAGGGAGTTCCCTTTC
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

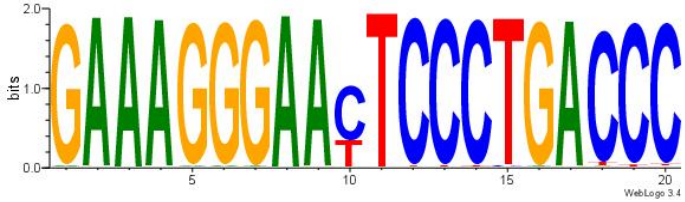

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

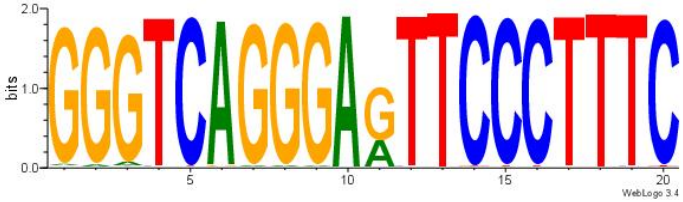

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154842

Alignment:
ATGGAATAYTATTCAGCCAT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

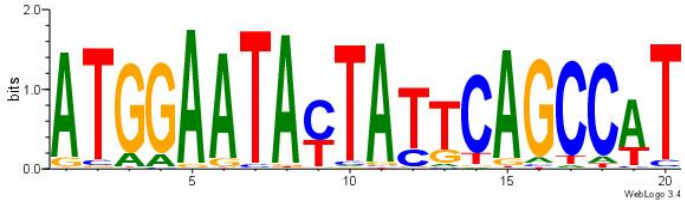

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

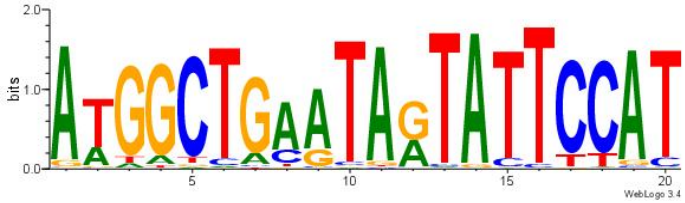

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154872

Alignment:

```
AGGACTGAGGGTGCCYRGGG
ACTCCCTAGTGAGATGAACC
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

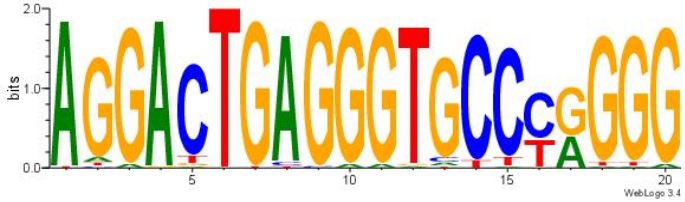

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

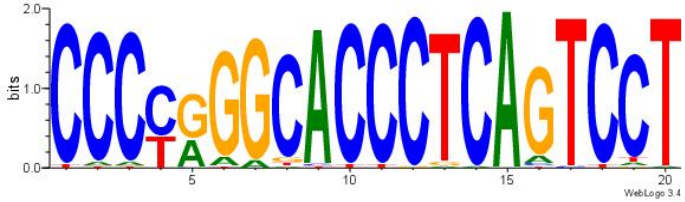

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155287

Alignment:
CCCGAAGCTGCRYRCTCGGT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

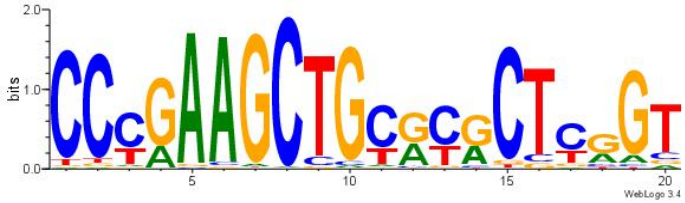

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

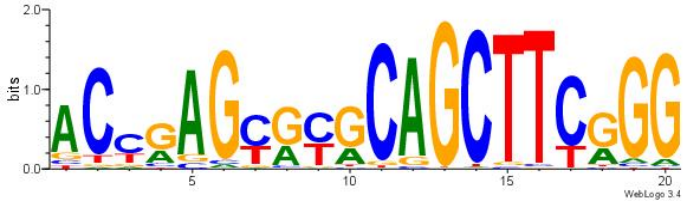

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.156443

Alignment:
AGTAGGTGCTCARTAAATRB
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

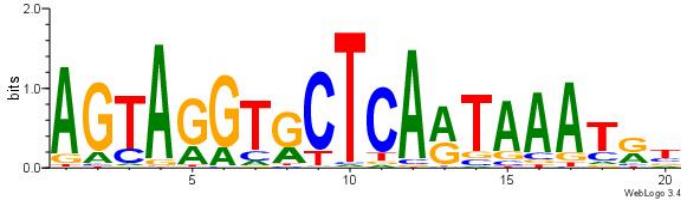

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

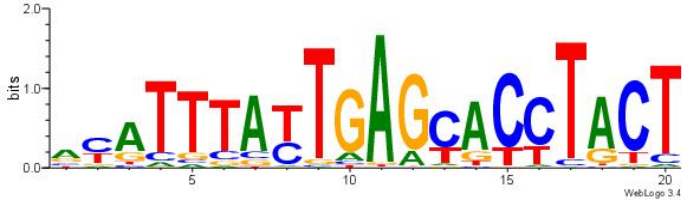

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157301

Alignment:
GTKTMTATMTACCACATTTT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

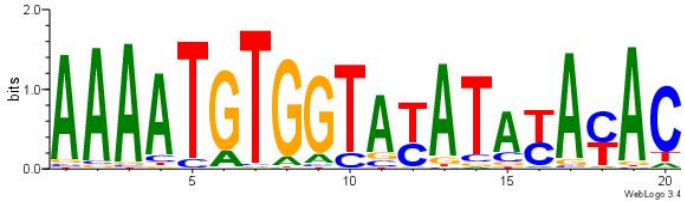

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

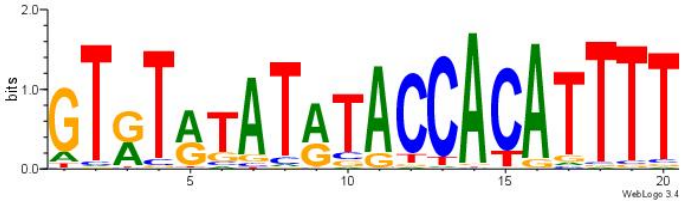

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158094

Alignment:

```
TAAAAGACTACAWATTGGGT
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

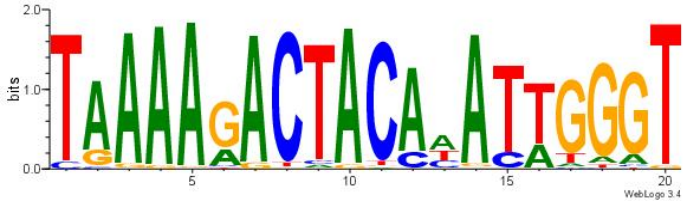

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

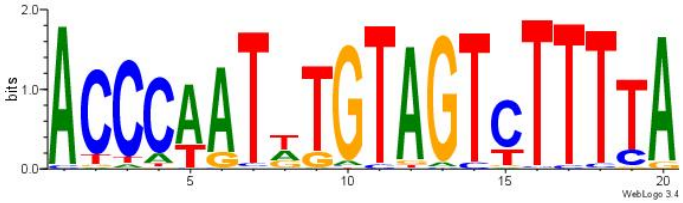

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159221

Alignment:
ACTGTCTTCCACCTCCACAT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

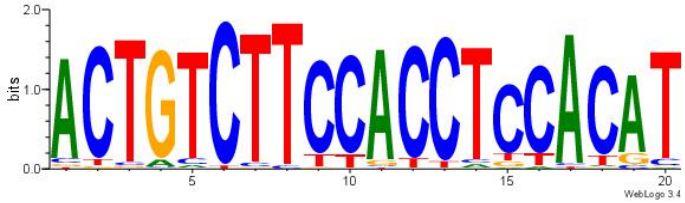

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

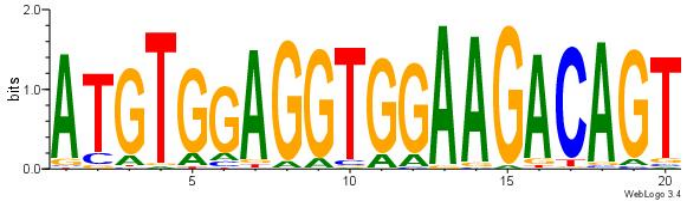

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.159719

Alignment:
GTTATTAATTGGCCTAATTT
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

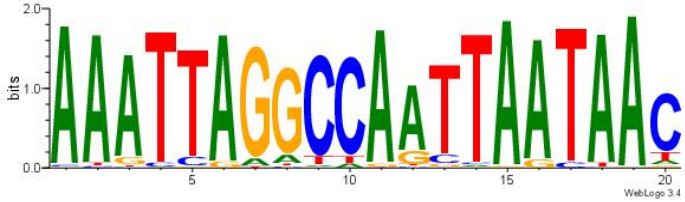

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160888

Alignment:
CRTGAGCCACYGYRCCYGGC
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

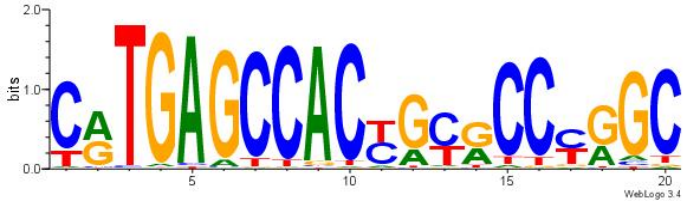

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

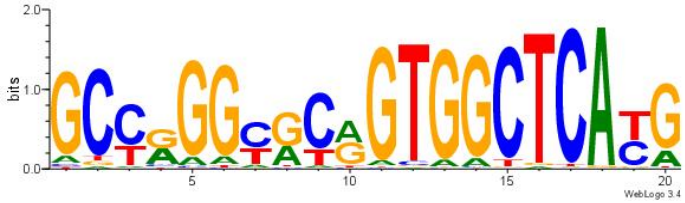

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161671

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

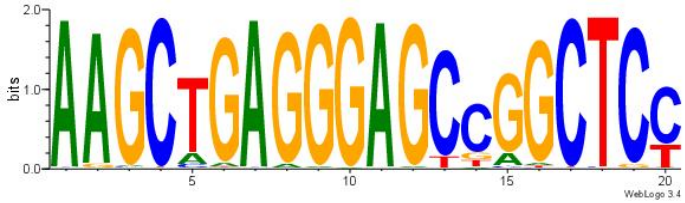

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

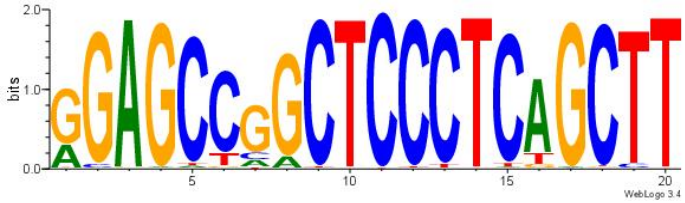

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162955

Alignment:
ACCTGGAAAATCGGGTCACT
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

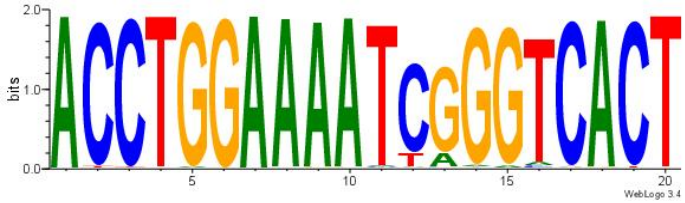

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

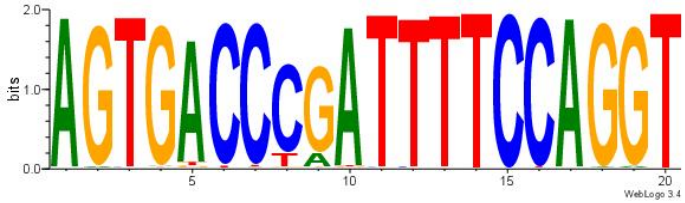

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.163624

Alignment:
CTGGGCTCCTGAGTCTGGTG
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

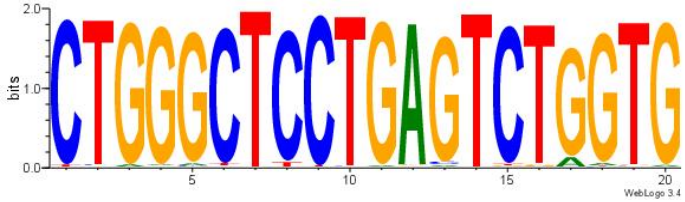

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

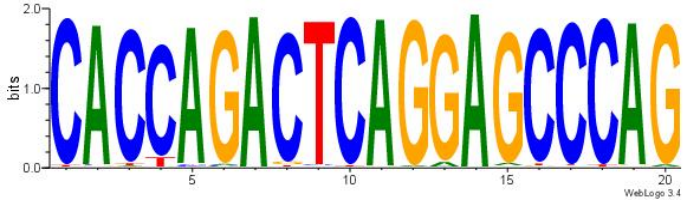

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164504

Alignment:
GTGTCKGGAGTTTGTTCCTT
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

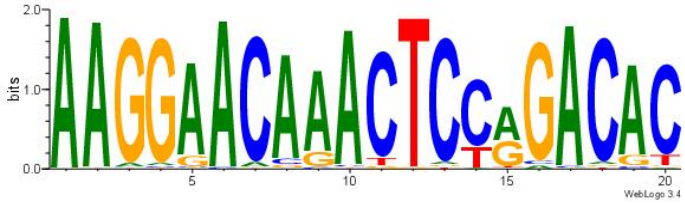

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

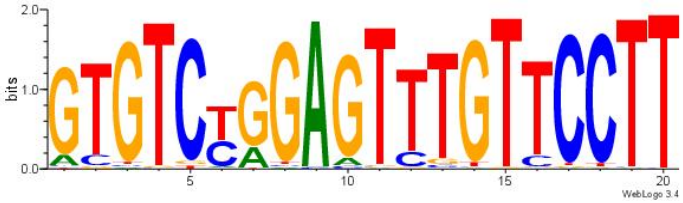

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164555

Alignment:

```
GCACATGTAYCCYAGAACTT
GGTTCATCTCACTAGGGAGT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

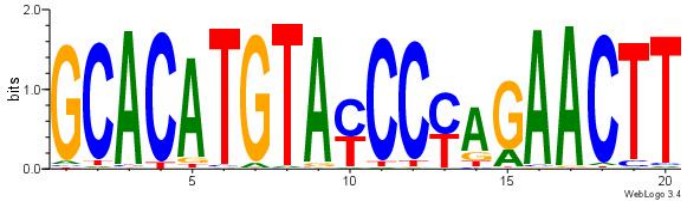

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

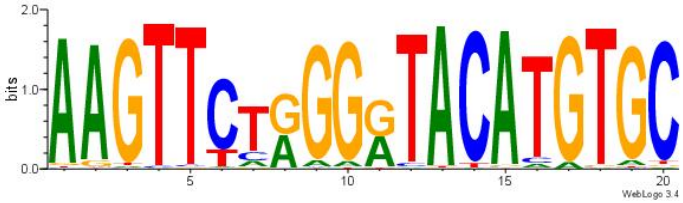

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.164747

Alignment:
CMTAGYACAGTGCCTGGCAC
ACTCCCTAGTGAGATGAACC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

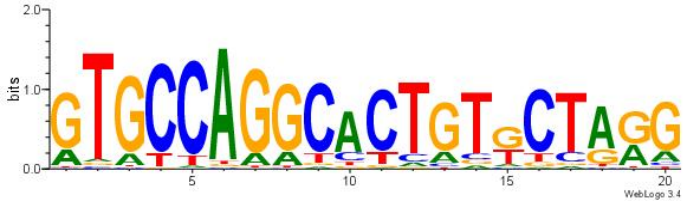

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

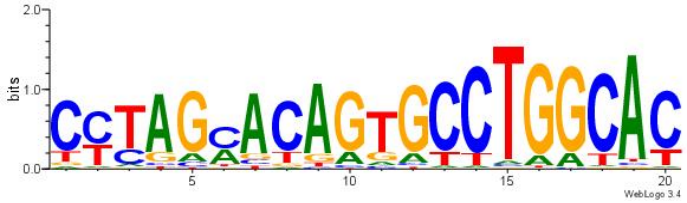

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.168123

Alignment:
CTCCTGCCTCAGCCTCCCRA
GGTTCATCTCACTAGGGAGT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

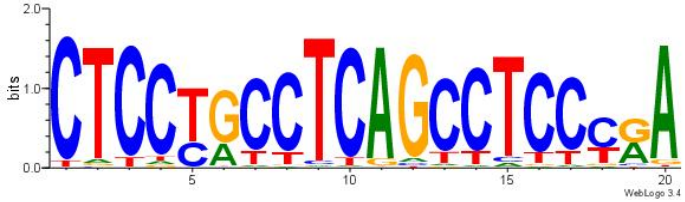

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

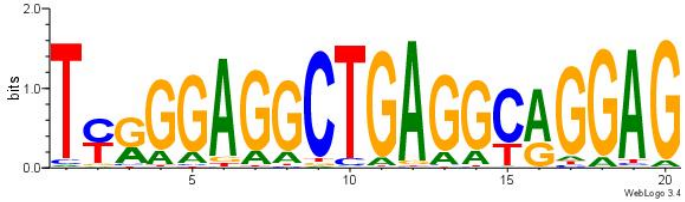

Dataset #: 1 Motif ID: 24 Motif name: Motif 24

Original motif Consensus sequence: CKAGTCAAAGAAA

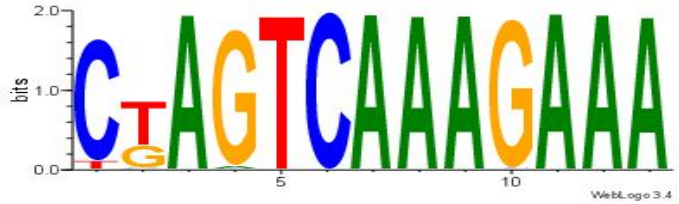

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

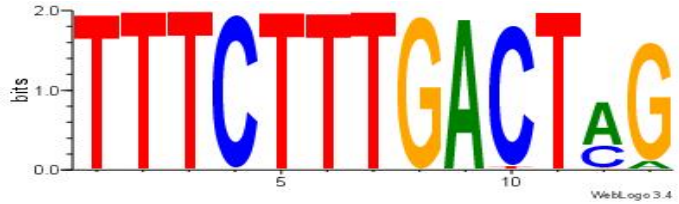

Best Matches for Motif ID 24 (Highest to Lowest)

Dataset #: 1
Motif ID: 274
Motif name: Motif 274
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0524968

Alignment:

```
CTGGTCAAGGAAA
CKAGTCAAAGAAA
```

Original motif Consensus sequence: CTGGTCAAGGAAA

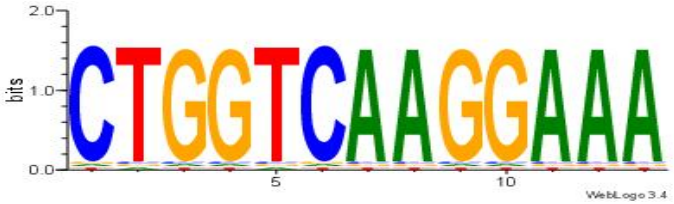

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

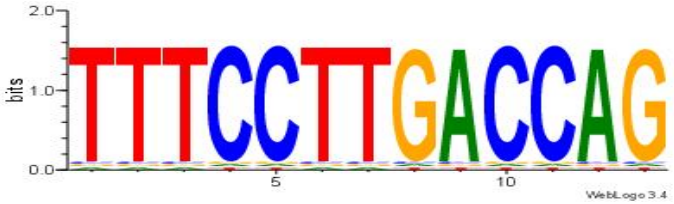

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0775612

Alignment:

ACTCCCTAGTGAGATGAACC
--CKAGTCAAAGAAA-----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

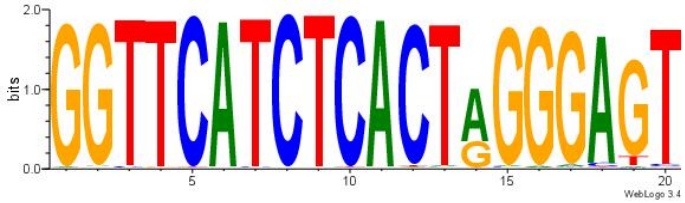

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

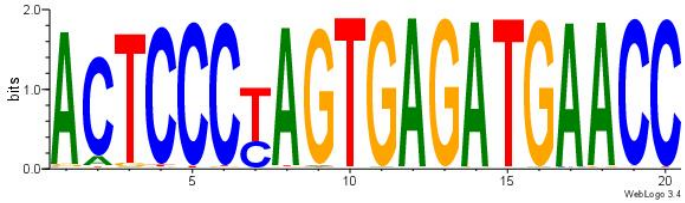

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0797194

Alignment:
TGAGKCAATTAAACCTCTT
CKAGTCAAAGAAA------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

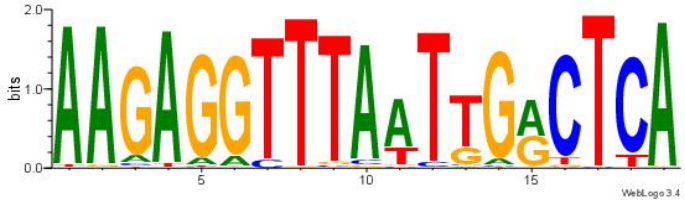

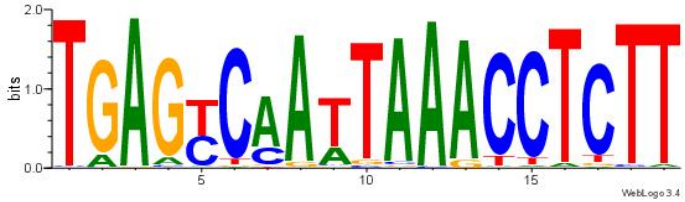

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0798508

Alignment:

```
GCCAGTCACAAAARGACAMA
-CKAGTCAAAGAAA------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

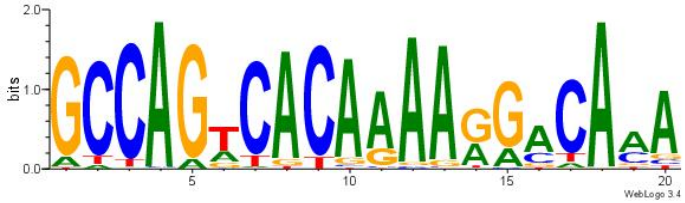

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

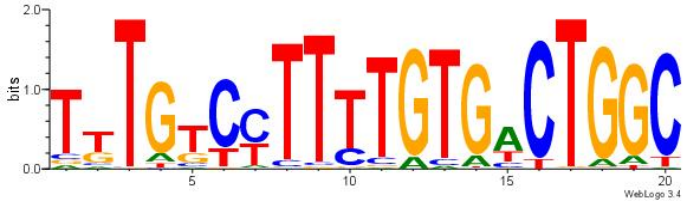

Dataset #: 1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0937628

Alignment:

```
AAAGAGAGTCAGCGAAG
----CKAGTCAAAGAAA
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

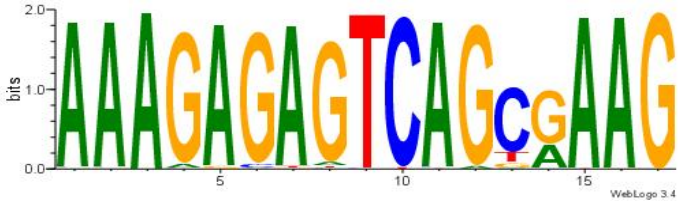

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

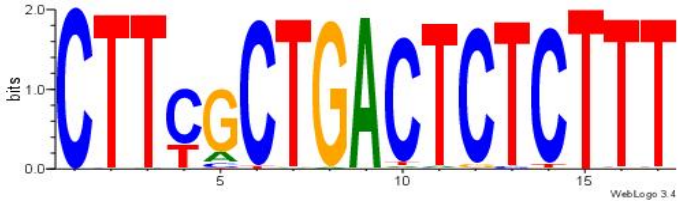

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.0938675

Alignment:
TTTYTWTTTTTTYTWGAGAC
---TTTCTTTGACTRG----

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

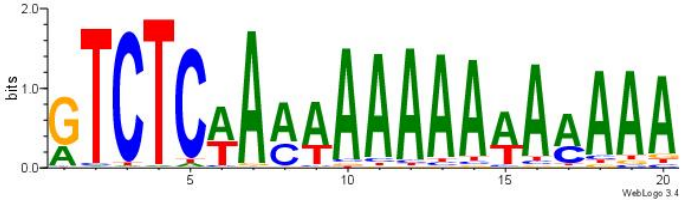

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

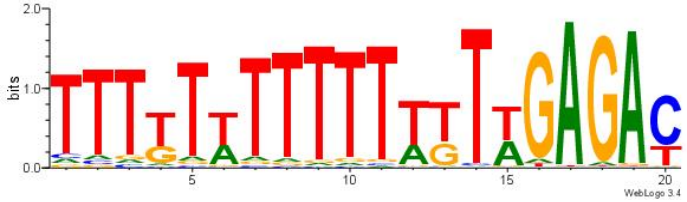

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0974861

Alignment:
TCCAAATGGGAGAAATTGGC
--CKAGTCAAAGAAA-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

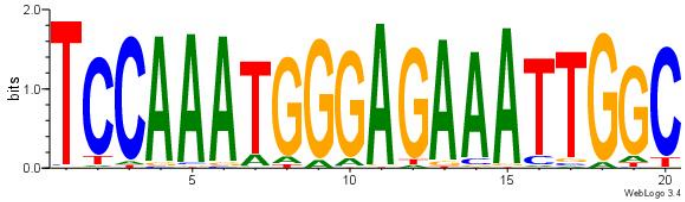

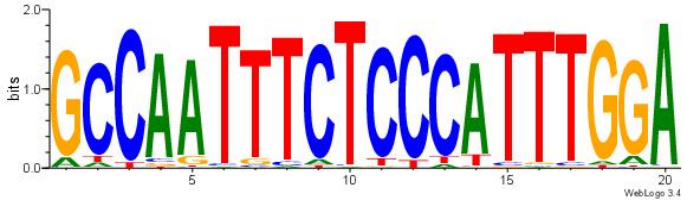

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0984636

Alignment:

```
CTAGACATAAAGGTTCTCCA
CKAGTCAAAGAAA-------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

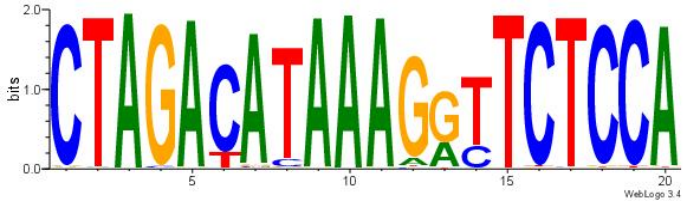

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

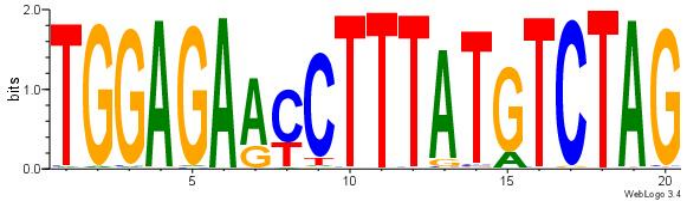

Dataset #:	1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0986251

Alignment:

```
TTTTATAGGATTTGGG
-TTTCTTTGACTRG--
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

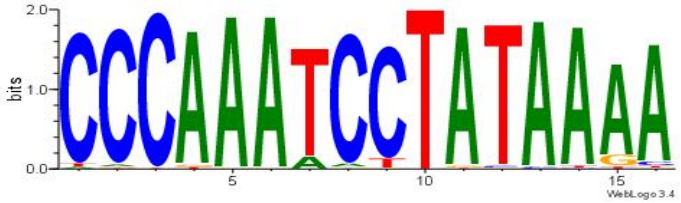

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

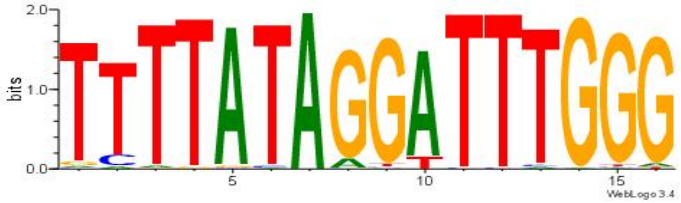

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.0997803

Alignment:
TACCTGAGACTGGGTAATTT
TTTCTTTGACTRG-------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

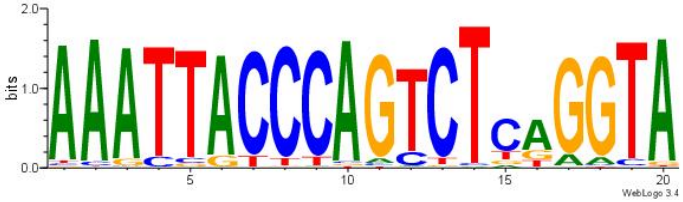

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

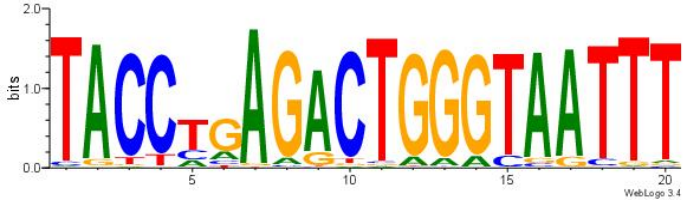

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.100922

Alignment:
AGCTAGAYACAGAGTGC
--CKAGTCAAAGAAA--

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence:
GCACTCTGTMTCTAGCT

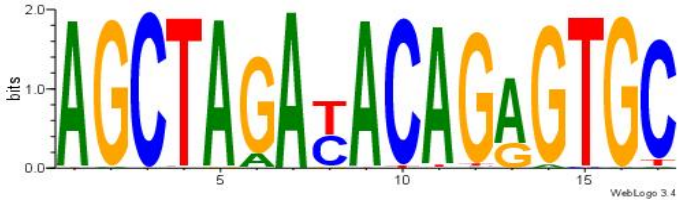

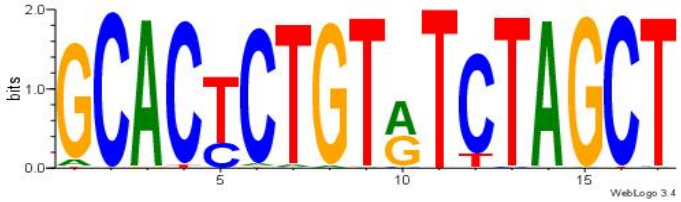

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.102595

Alignment:

```
AGAGCCAAATCATGARTGAA
CKAGTCAAAGAAA-------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

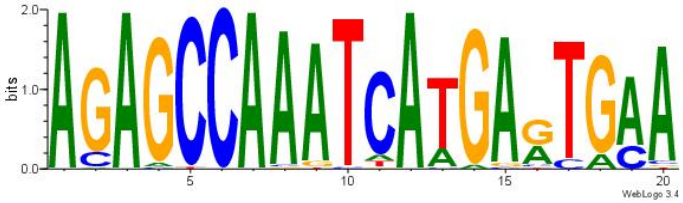

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

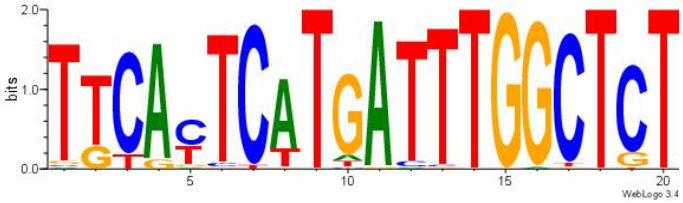

Dataset #:	1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.104132

Alignment:

```
AACTGAGGCTCAGAGA
---CKAGTCAAAGAAA
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

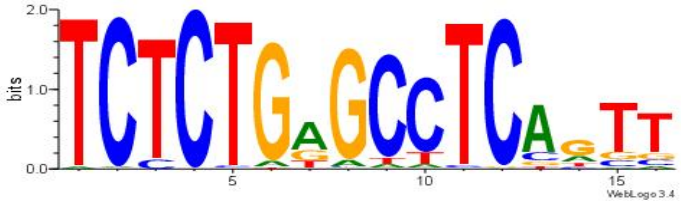

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

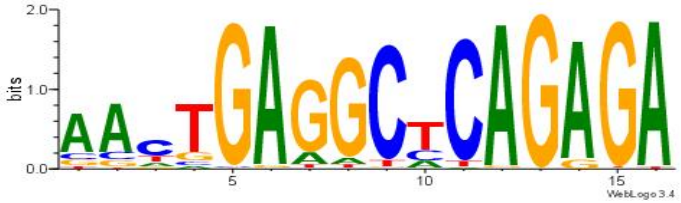

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.104879

Alignment:
GTTATTAATTGGCCTAATTT
----TTTCTTTGACTRG---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

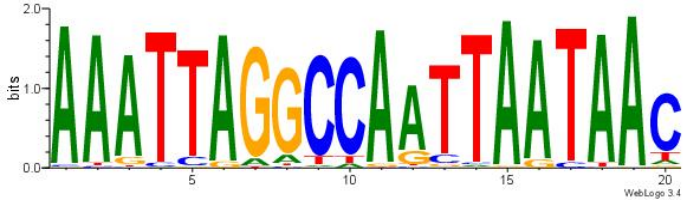

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 255
Motif name: Motif 255
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.104984

Alignment:
TTTGTTATAGCAG
TTTCTTTGACTRG

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

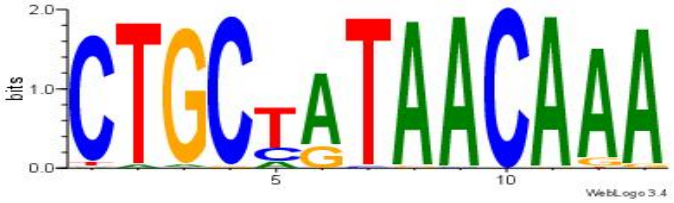

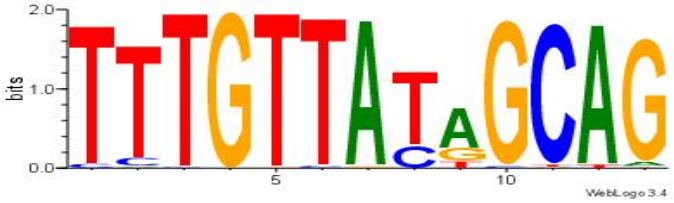

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.1064

Alignment:

```
GGATTTMKGACTTGCATGGG
-TTTCTTTGACTRG------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

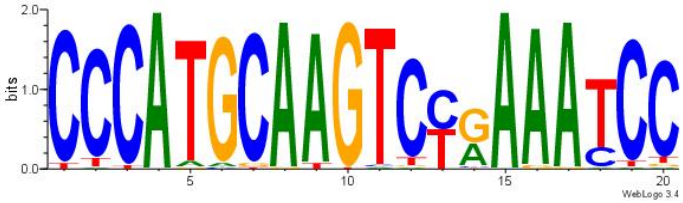

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

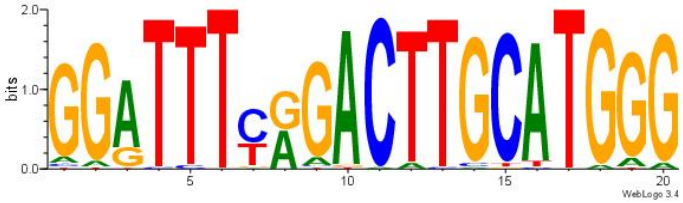

Dataset #:	1

Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106567

Alignment:

```
CTCTTGTTGCCCAG
-TTTCTTTGACTRG
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

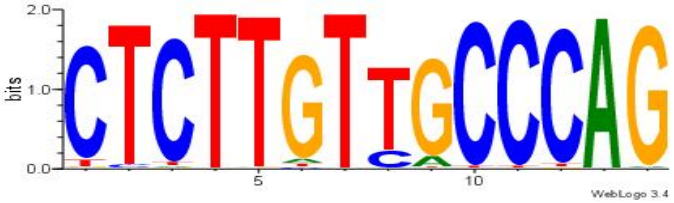

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

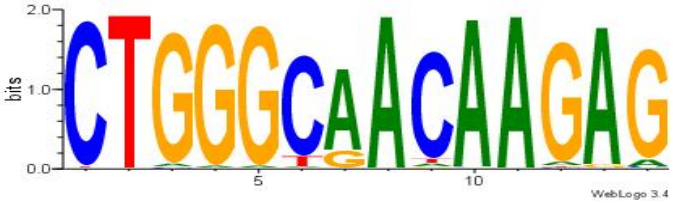

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.106578

Alignment:
CTGGGCTCCTGAGTCTGGTG
-----TTTCTTTGACTRG--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

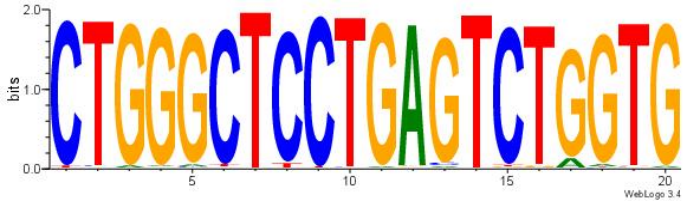

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

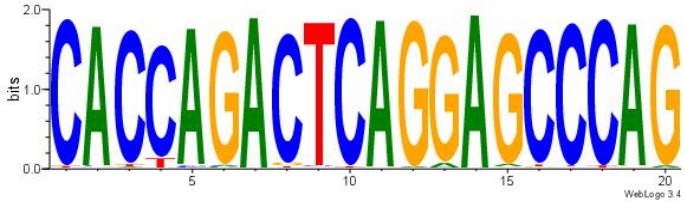

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106653

Alignment:
CAGTCTGTGTCTTTTAATT
-TTTCTTTGACTRG-----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

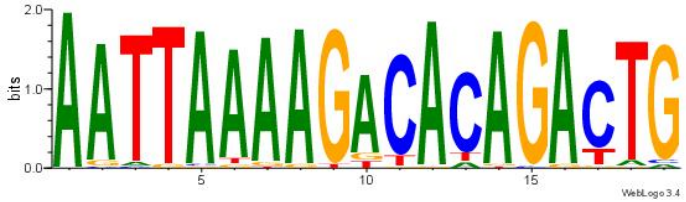

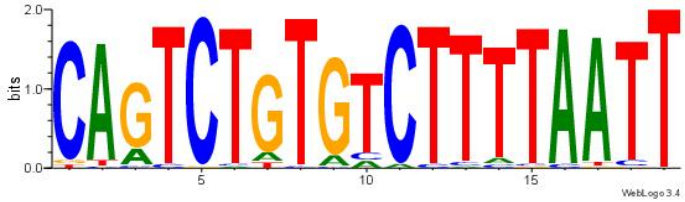

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.106659

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-------TTTCTTTGACTRG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

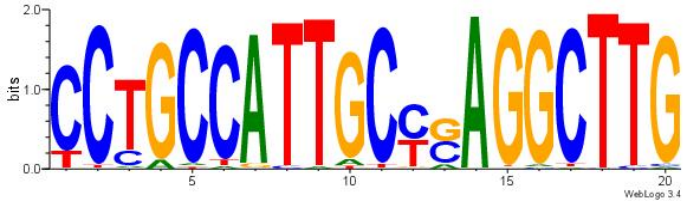

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

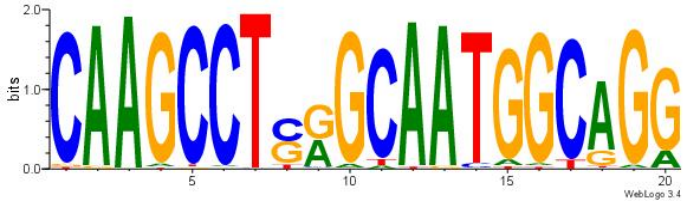

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.10701

Alignment:

```
ATGGCCTATGACYGSTTTG
--TTTCTTTGACTRG----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

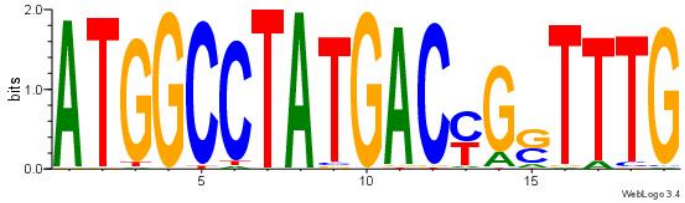

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

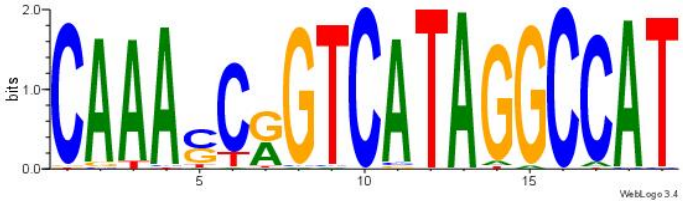

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.10734

Alignment:
GGTTTTCCATTCCTGAG
---TTTCTTTGACTRG-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

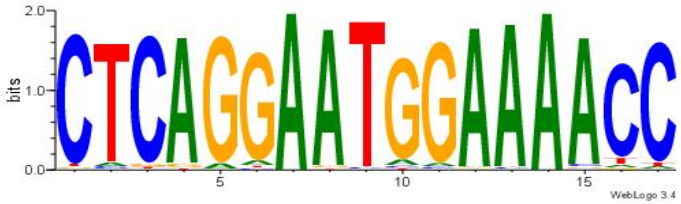

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

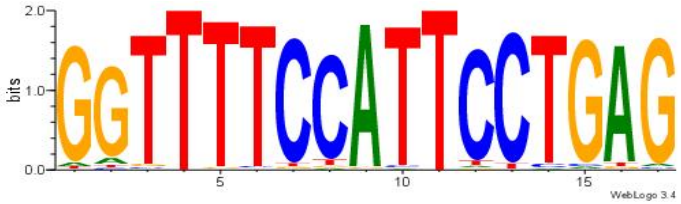

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.108331

Alignment:
CACTTTCCAGACTGGGCA
--TTTCTTTGACTRG---

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

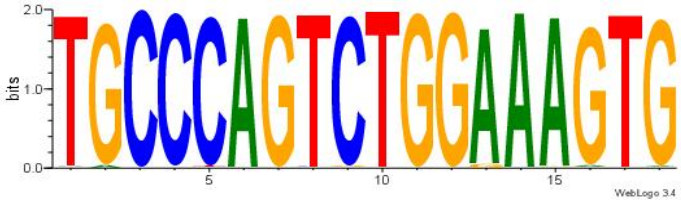

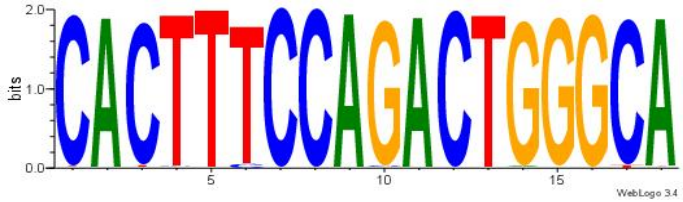

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.108433

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-----TTTCTTTGACTRG-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

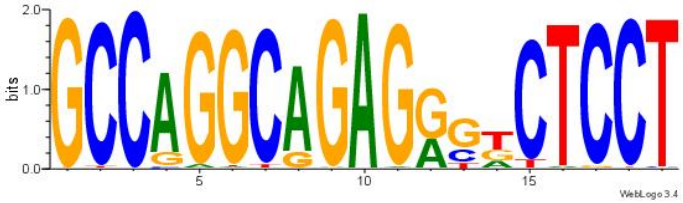

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

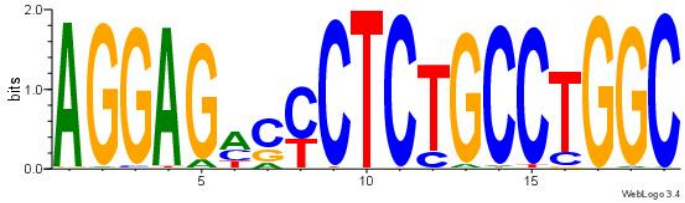

Dataset #:	1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.109599

Alignment:

```
AAYRGACTAATACA
-CKAGTCAAAGAAA
```

Original motif Consensus sequence: AAYRGACTAATACA

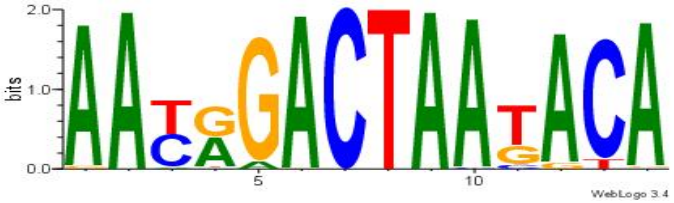

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

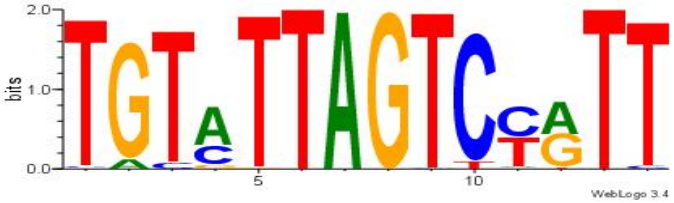

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.109823

Alignment:
AGGTTTGTTACATAGGTAWA
---TTTCTTTGACTRG----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

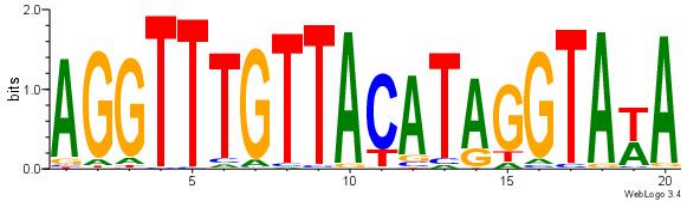

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

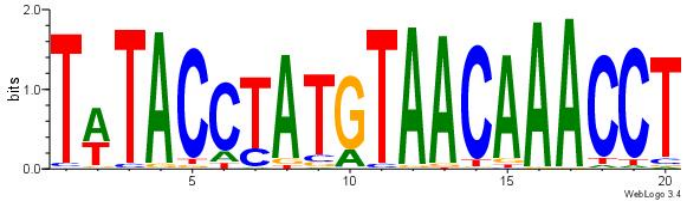

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.1106

Alignment:
CACTTCCCAGACGGGGCG
--TTTCTTTGACTRG---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

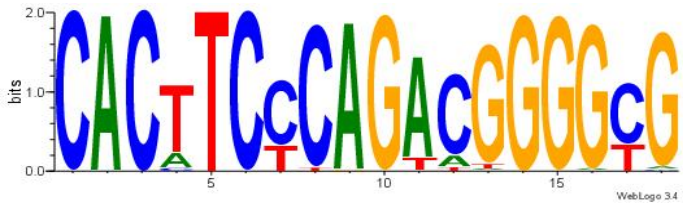

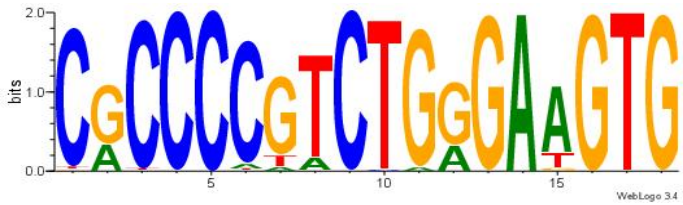

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.111934

Alignment:
AGAGCTCTGGCTGGCATCT
-TTTCTTTGACTRG-----

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

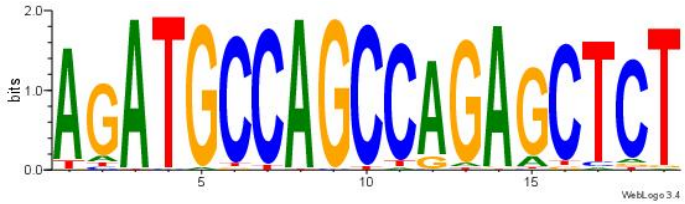

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

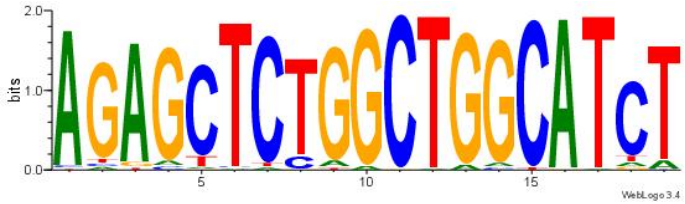

Dataset #: 1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.112052

Alignment:

```
CTTTCTGGGCTGGCCAAGG
TTTCTTTGACTRG------
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

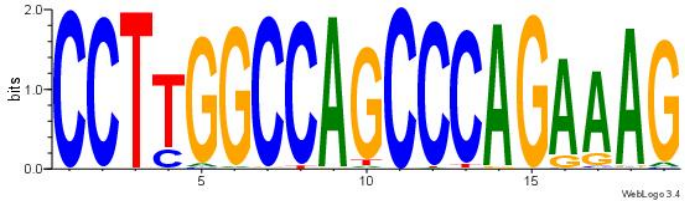

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

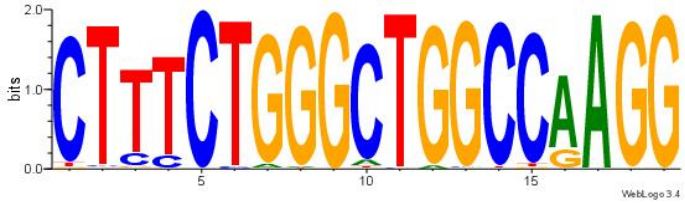

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.11226

Alignment:
CAATGATAGACTGGAT
-TTTCTTTGACTRG--

Original motif Consensus sequence: ATCCAGTCTATCATTG

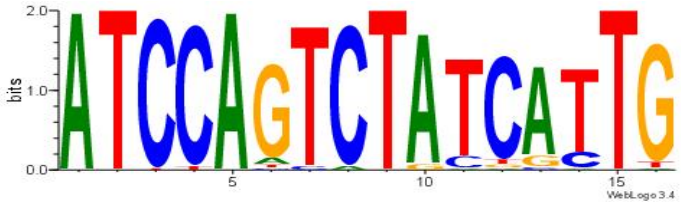

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

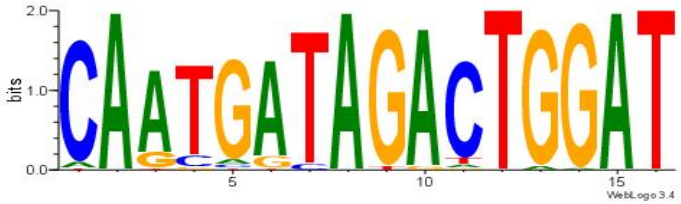

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.11241

Alignment:
GCCGTTTKTTAAGCCCGTY
--TTTCTTTGACTRG----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

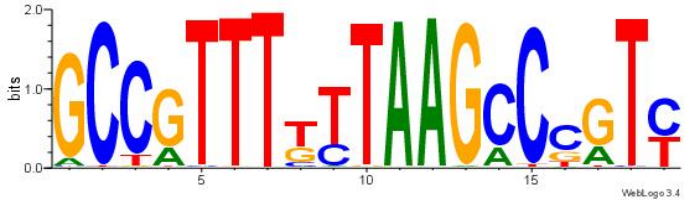

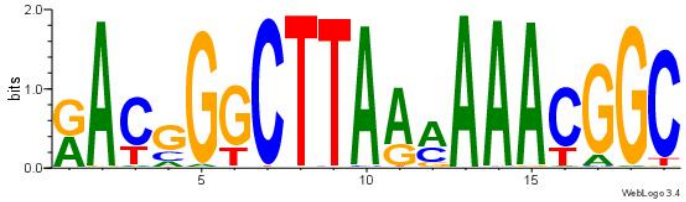

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.112514

Alignment:
ATCATTCTTATGCCTTTG
----TTTCTTTGACTRG-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

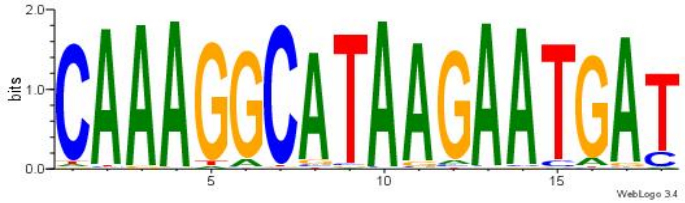

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

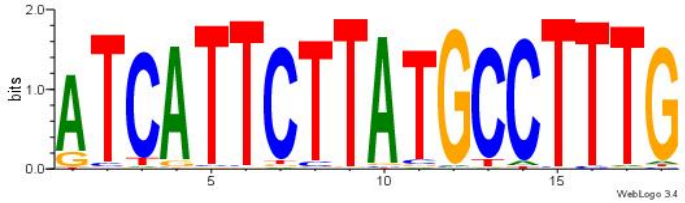

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.112685

Alignment:

```
TAATTTTATGTGTCAACTTG
----TTTCTTTGACTRG---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

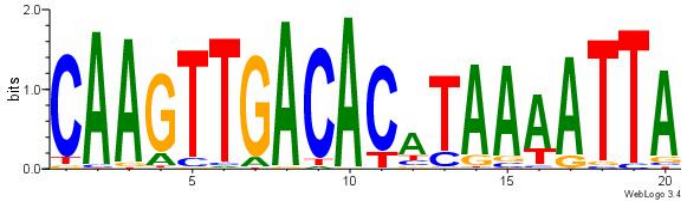

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

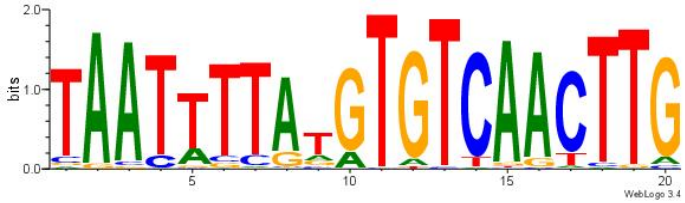

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.112797

Alignment:
GCAGCAMTATTCACAATAG
------CKAGTCAAAGAAA

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

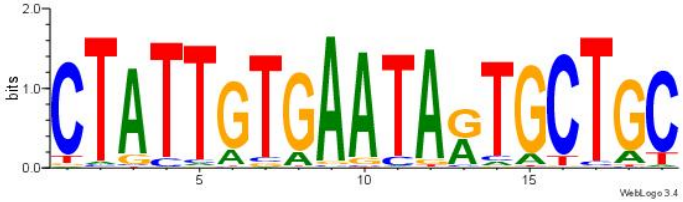

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

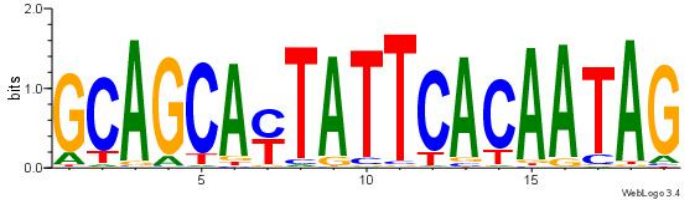

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.11289

Alignment:
ACTGTCTTCCACCTCCACAT
--TTTCTTTGACTRG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

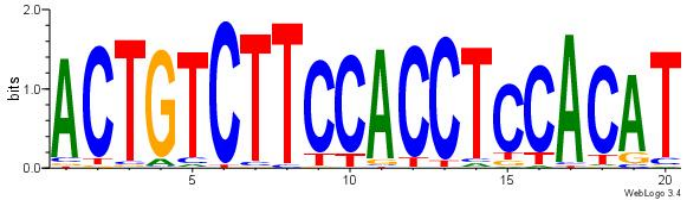

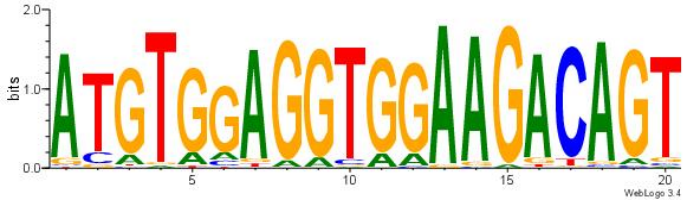

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.113624

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
-CKAGTCAAAGAAA------
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

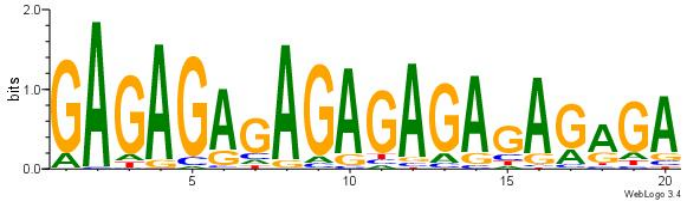

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

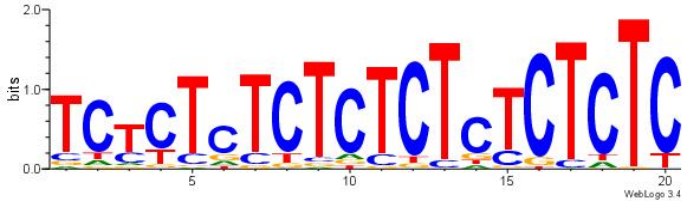

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113839

Alignment:

```
TTMGTCCCAGAGGGGCACC
CKAGTCAAAGAAA------
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

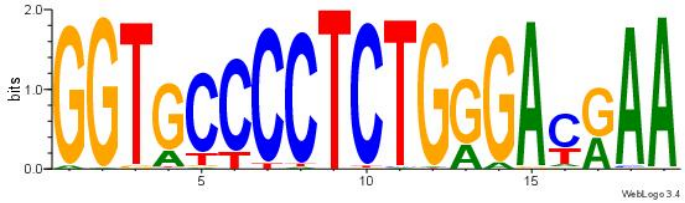

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

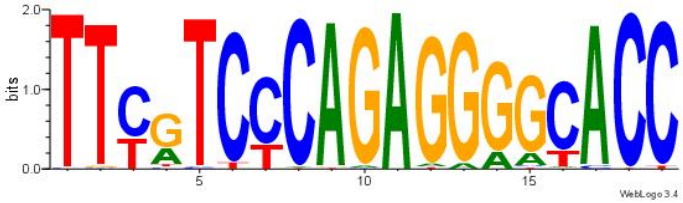

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.114786

Alignment:
GGATCCACTGGGTGAAGCCA
-------CKAGTCAAAGAAA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

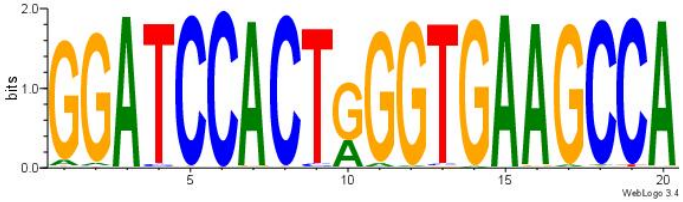

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

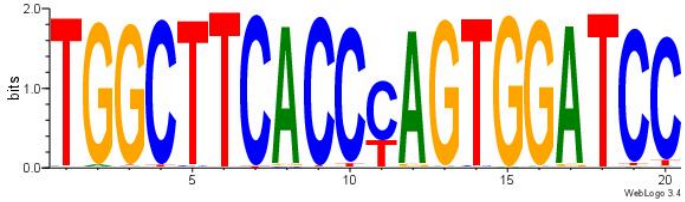

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.116666

Alignment:
ACCATCTTTAAGAACT
--CKAGTCAAAGAAA-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

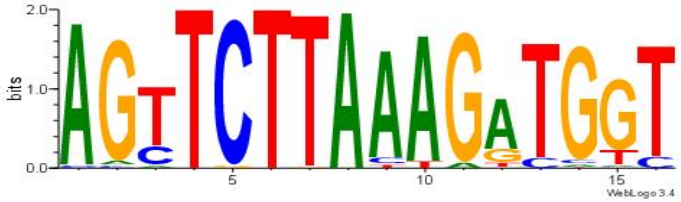

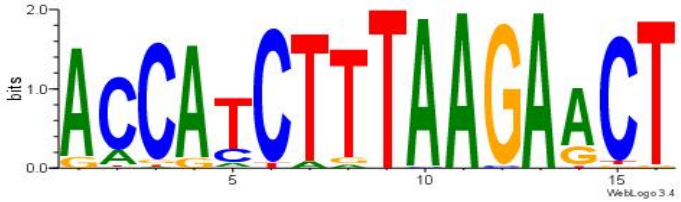

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.116757

Alignment:

```
GAAACTGCTTTGTGATGTGT
----TTTCTTTGACTRG---
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

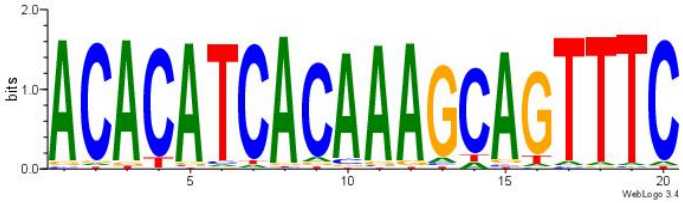

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

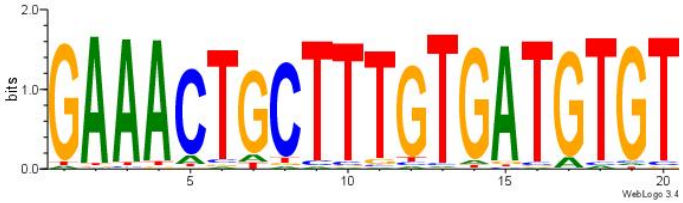

Dataset #: 1

Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.116833

Alignment:

```
TGTAKTCCCAGCTAC
-CKAGTCAAAGAAA-
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

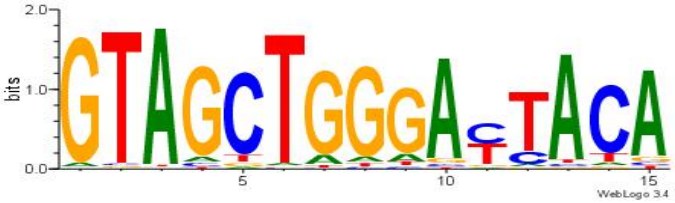

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

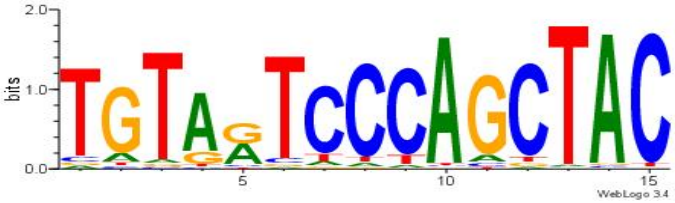

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.117406

Alignment:
CCACCACAGCTCAAGGAGGC
------CKAGTCAAAGAAA-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

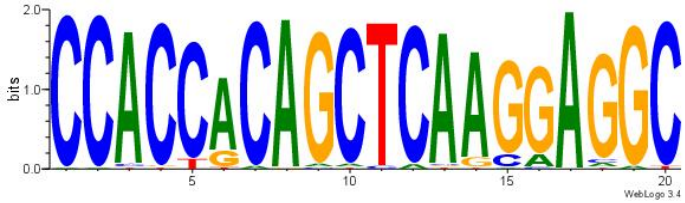

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

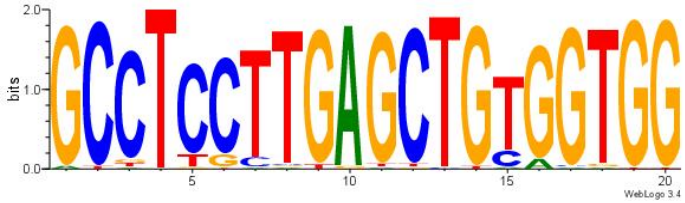

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.118144

Alignment:
CCTCCCSGACGRG
TTTCTTTGACTRG

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGC

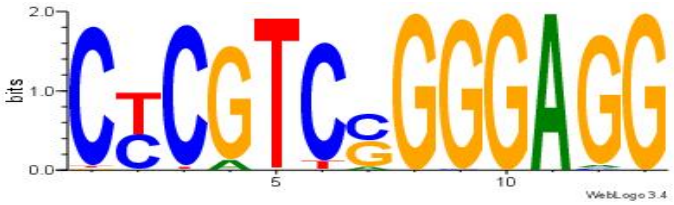

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.118194

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-----TTTCTTTGACTRG--
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

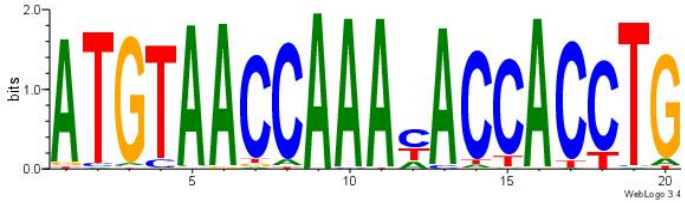

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

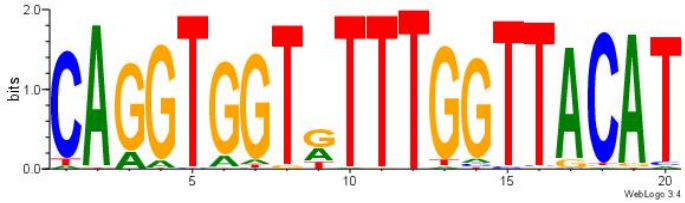

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.118825

Alignment:

```
GTCCCATCGACCACCCAAG
-TTTCTTTGACTRG-----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

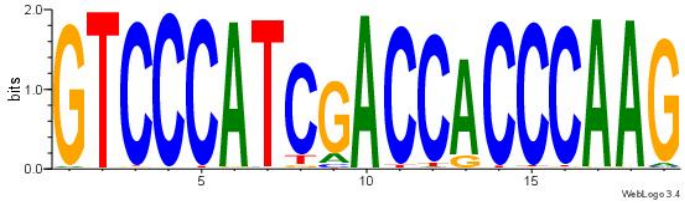

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

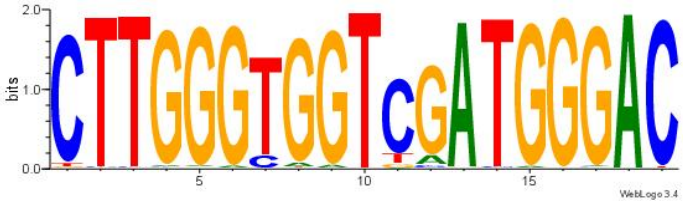

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.119345

Alignment:
TGATACCCAGGCAAACAG
--CKAGTCAAAGAAA---

Original motif Consensus sequence: TGATACCCAGGCAAACAG

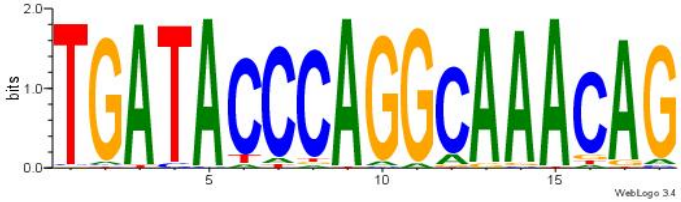

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

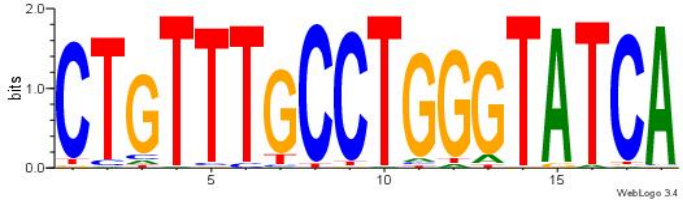

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.120164

Alignment:
GCTGGAGTGCAGTGGCRYGA
-TTTCTTTGACTRG------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

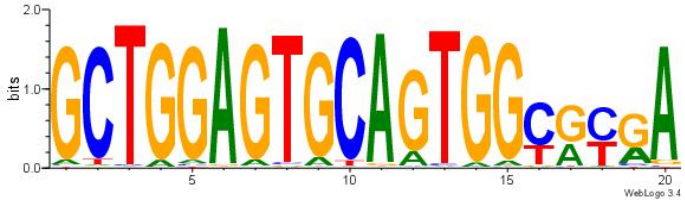

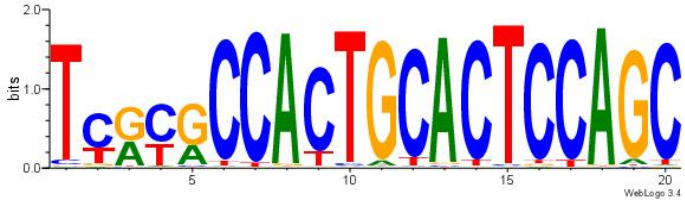

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.120659

Alignment:

```
CAAGGGTATAYGAGTAGCTG
----TTTCTTTGACTRG---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

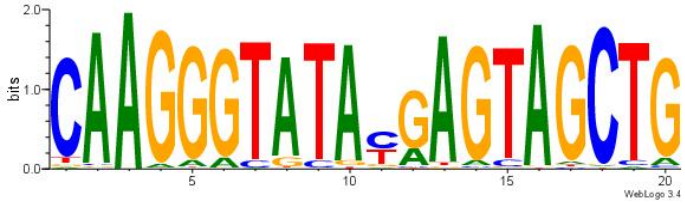

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

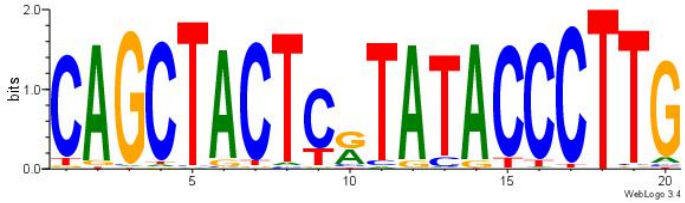

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.120819

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
----TTTCTTTGACTRG---
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

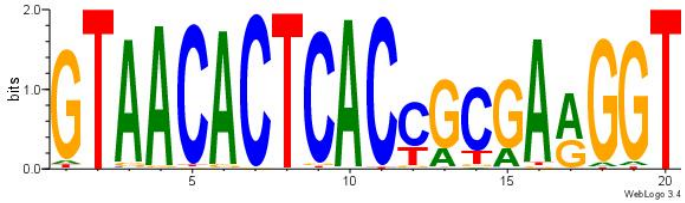

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

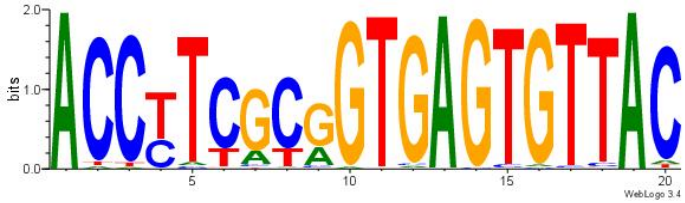

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.120822

Alignment:
GAATACCTCCTGAAGGACCT
------CKAGTCAAAGAAA-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

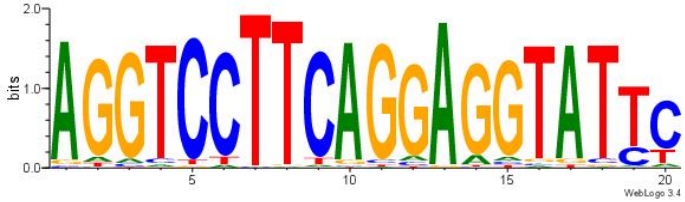

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

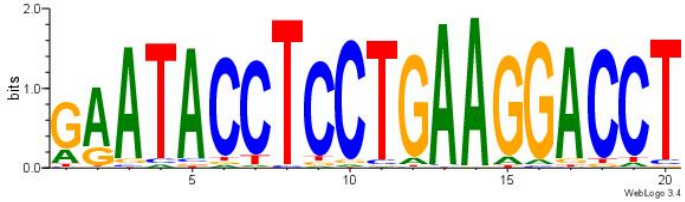

Dataset #: 1 Motif ID: 25 Motif name: Motif 25

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

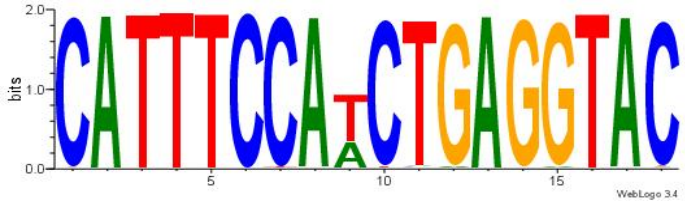

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

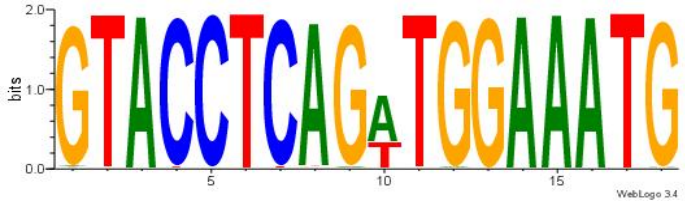

Best Matches for Motif ID 25 (Highest to Lowest)

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0987898

Alignment:

```
GAATACCTCCTGAAGGACCT
CATTTCCAWCTGAGGTAC--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

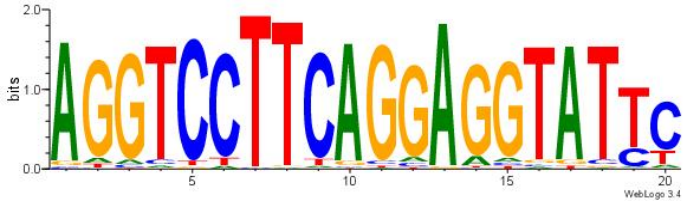

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

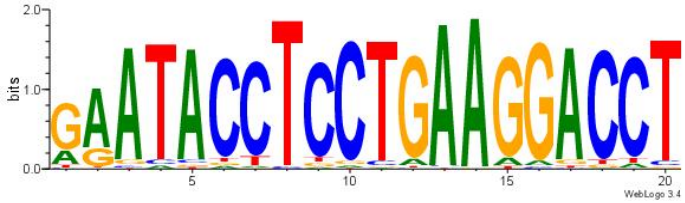

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.110707

Alignment:

GTTTAACCATTGAGGGCCAG
CATTTCCAWCTGAGGTAC--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

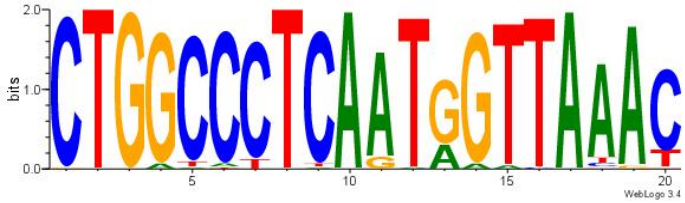

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

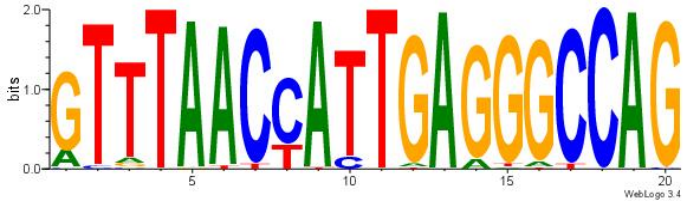

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.117106

Alignment:
CCTTGGCCAGCCCAGAAAG
-CATTTCCAWCTGAGGTAC

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

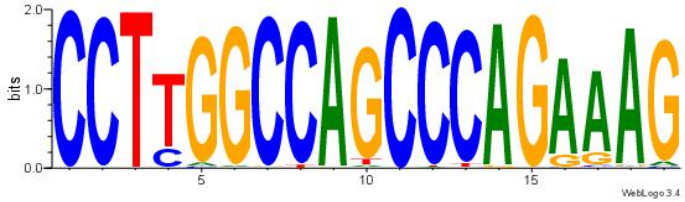

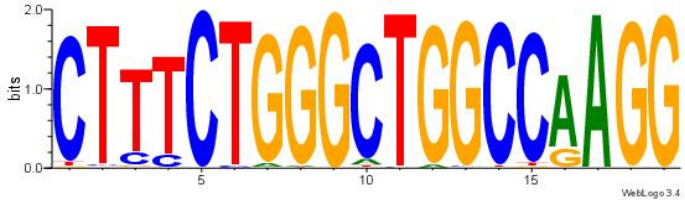

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.118191

Alignment:

```
CATGGCGGGCTGCAGGTC
CATTTCCAWCTGAGGTAC
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

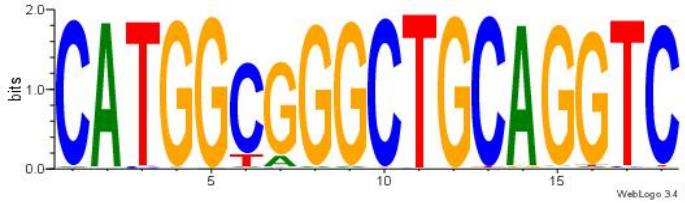

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

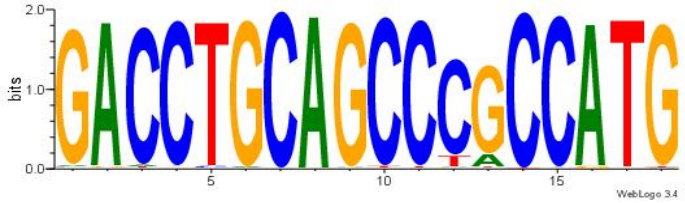

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.118723

Alignment:

```
CCACCACAGCTCAAGGAGGC
GTACCTCAGWTGGAAATG--
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

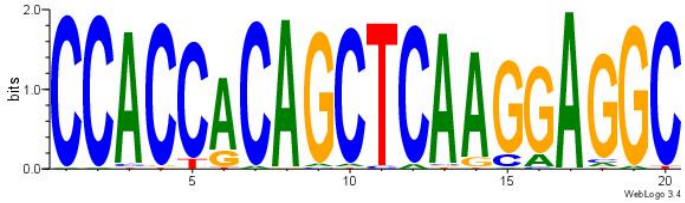

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

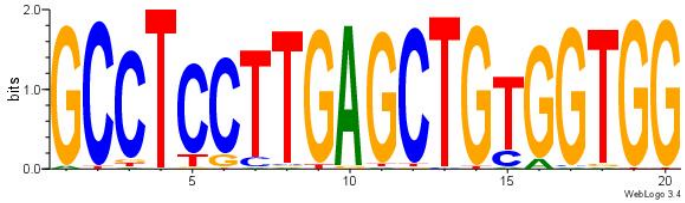

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.119864

Alignment:
AGGTTTGTTACATAGGTAWA
-CATTTCCAWCTGAGGTAC-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

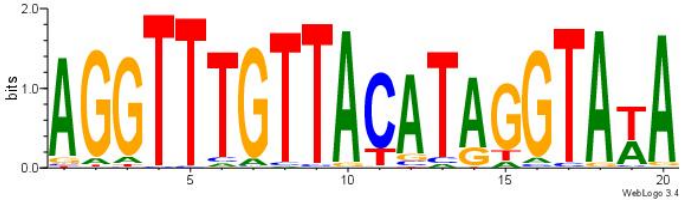

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

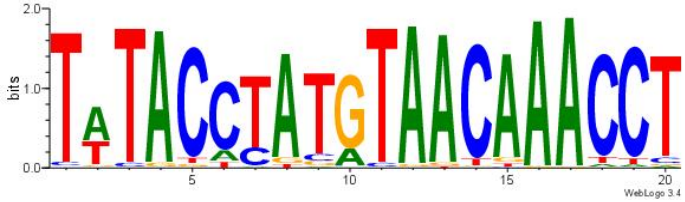

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.122519

Alignment:
CAGGTGGTKTTTGGTTACAT
CATTTCCAWCTGAGGTAC--

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

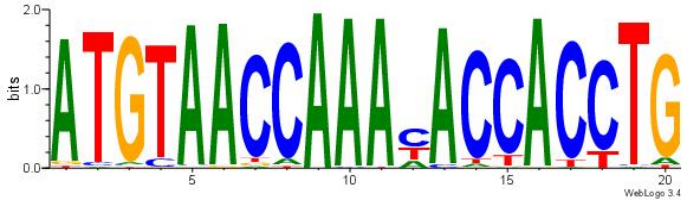

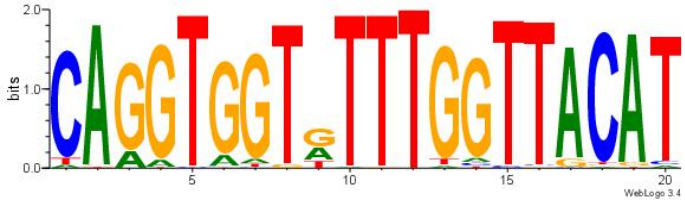

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.122791

Alignment:

```
GTAACACTCACCGCGARGGT
GTACCTCAGWTGGAAATG--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

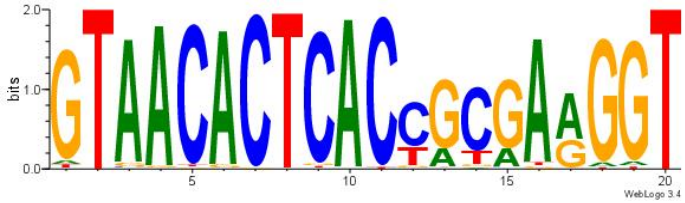

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

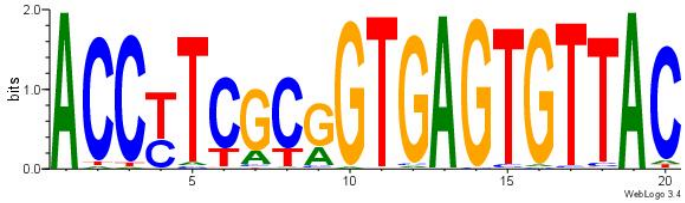

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.122978

Alignment:

```
GGTGCCCCTCTGGGACRAA
CATTTCCAWCTGAGGTAC-
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

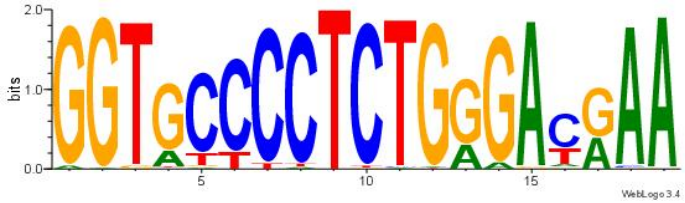

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

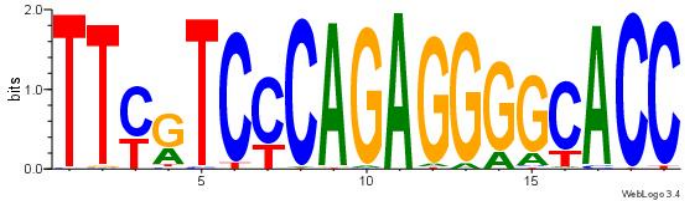

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.123342

Alignment:
GAAACTGCTTTGTGATGTGT
--CATTTCCAWCTGAGGTAC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

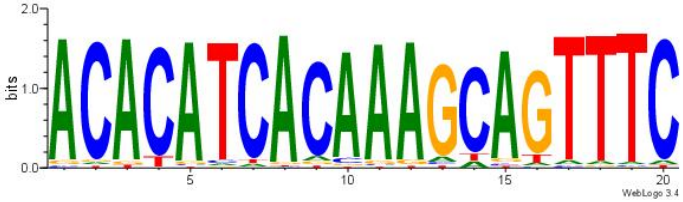

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

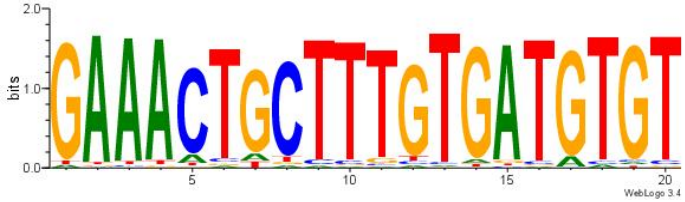

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.124168

Alignment:
MGTCTMKCTCTGTKGCCCAG
CATTTCCAWCTGAGGTAC--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

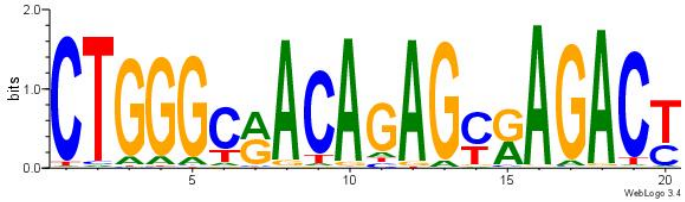

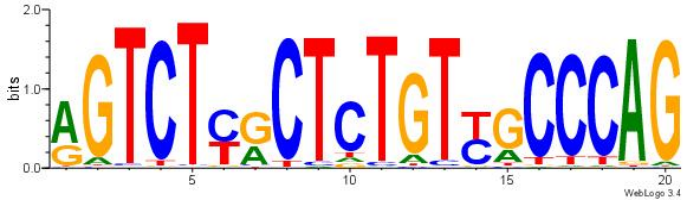

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.125118

Alignment:

```
GCTCCACCCAGTTCGAGCTT
--GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

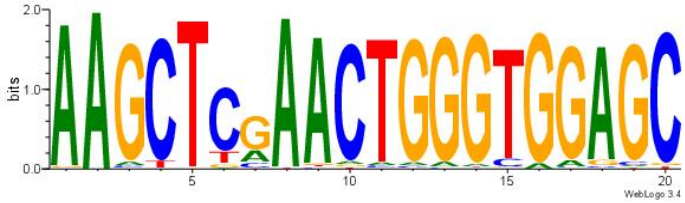

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

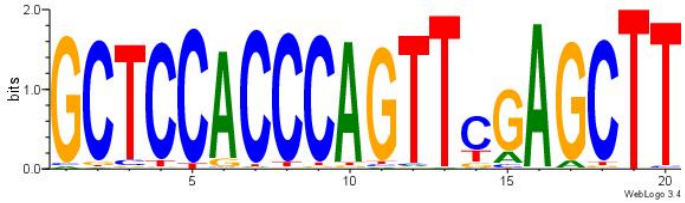

Dataset #:	1

Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.125402

Alignment:

```
CGCCCCGTCTGGGAAGTG
GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

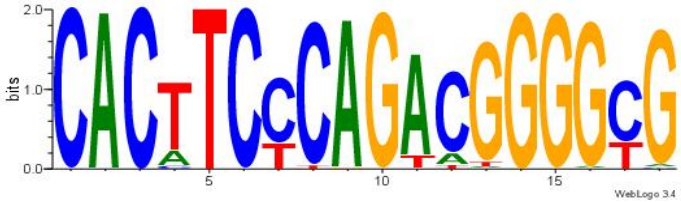

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

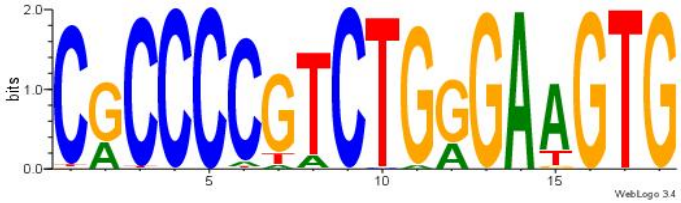

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.125594

Alignment:
CCCATGCAAGTCYRAAATCC
--CATTTCCAWCTGAGGTAC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

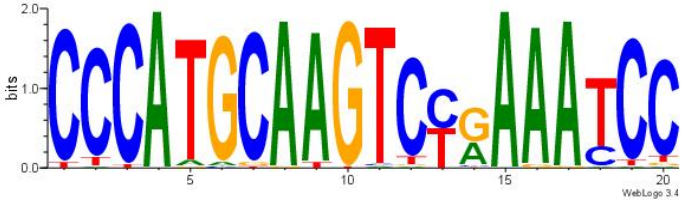

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

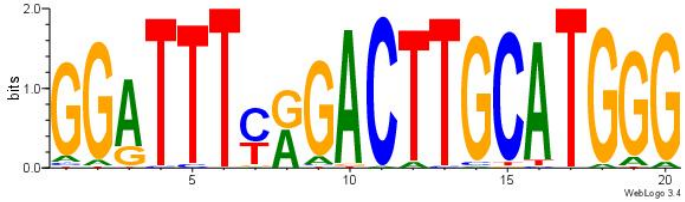

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.125623

Alignment:
GCTTAGCACCYGGGCCAGC
CATTTCCAWCTGAGGTAC-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

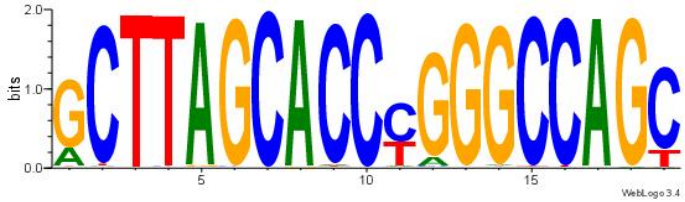

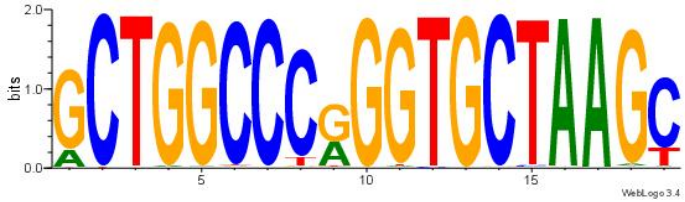

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.127659

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-GTACCTCAGWTGGAAATG-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

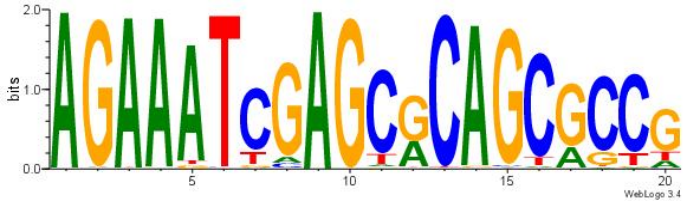

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

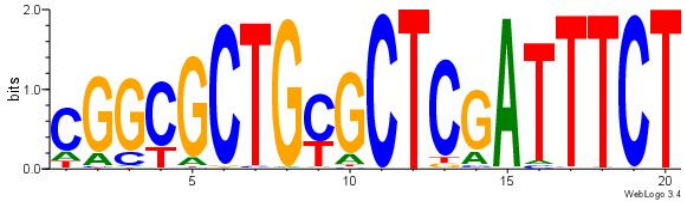

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.128614

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-GTACCTCAGWTGGAAATG-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

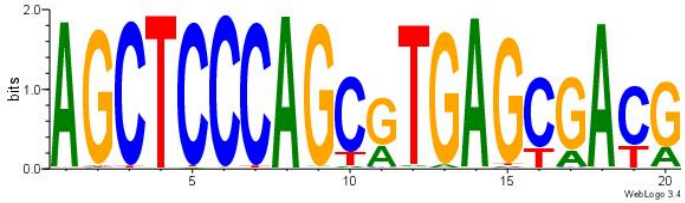

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

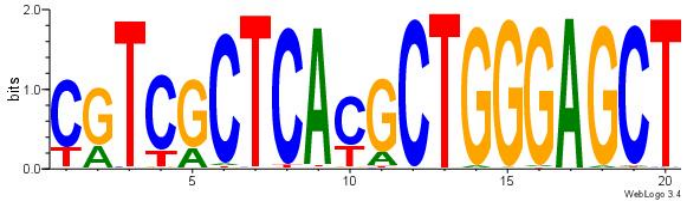

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.128858

Alignment:
GGCACTGCTGGGGGACCCAG
-GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

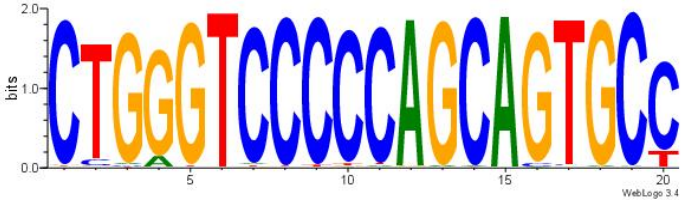

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

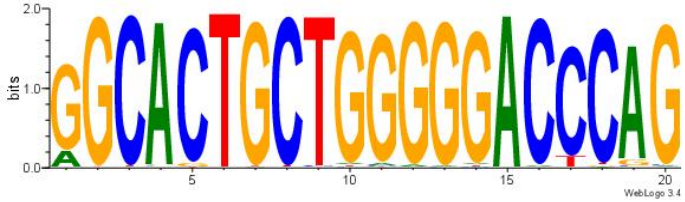

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.13062

Alignment:
TCCTATGAGAATCTAATG
GTACCTCAGWTGGAAATG

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

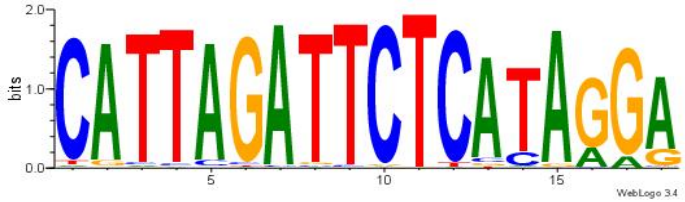

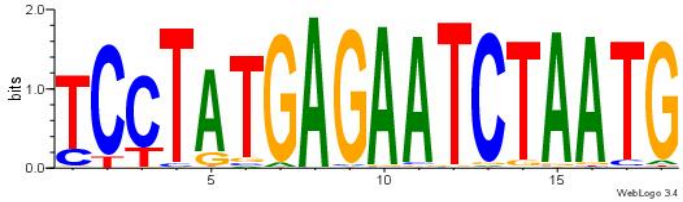

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.130627

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
GTACCTCAGWTGGAAATG--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

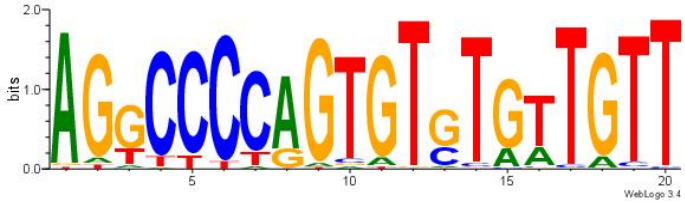

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

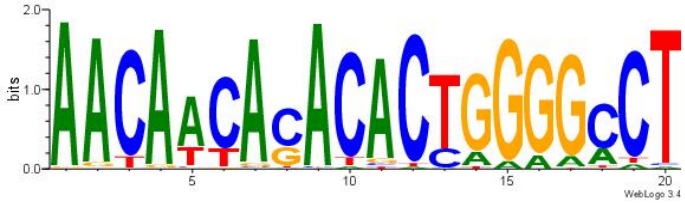

Dataset #: 1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.130667

Alignment:

```
ACATCCCAGACGATGGGCG
CATTTCCAWCTGAGGTAC-
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

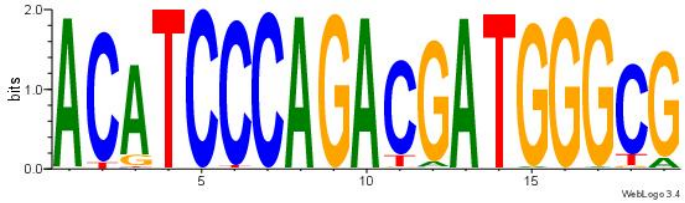

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

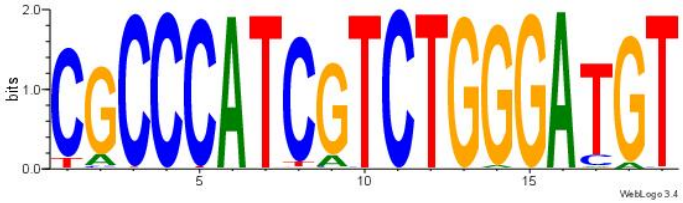

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.130838

Alignment:
GCCTCTCCCTCCACACCTCC
--CATTTCCAWCTGAGGTAC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

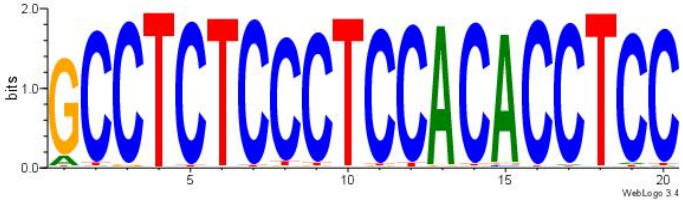

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

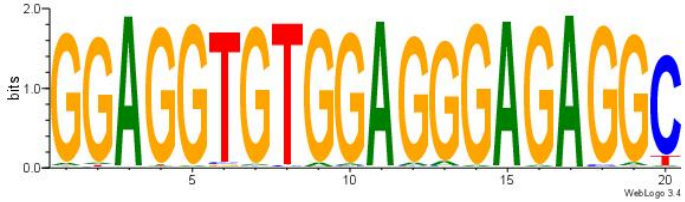

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.131749

Alignment:
AGAGCTCTGGCTGGCATCT
GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

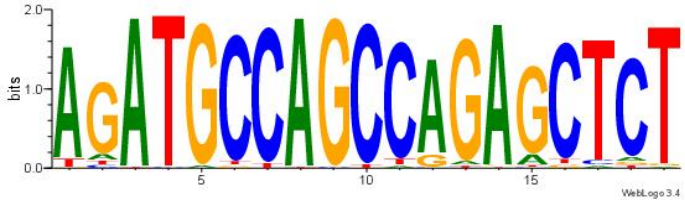

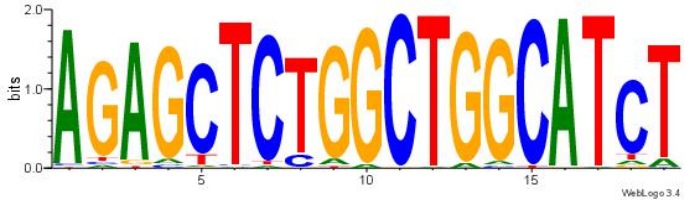

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.13238

Alignment:

```
CTTGCGCTTCCCRRGTGA
CATTTCCAWCTGAGGTAC
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

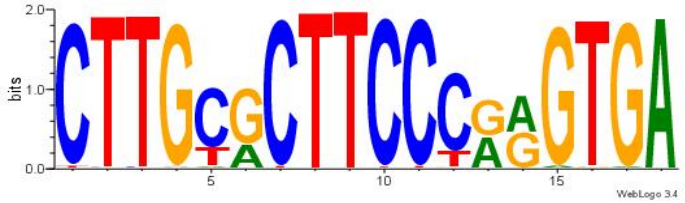

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

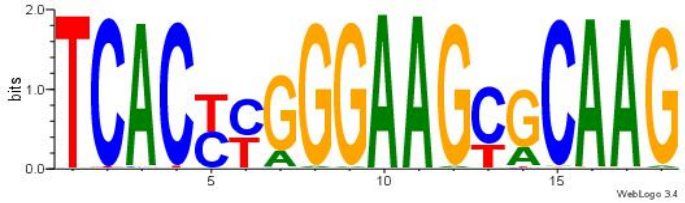

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.133805

Alignment:

```
AAGACCTTCCAGTGGGACAA
--GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

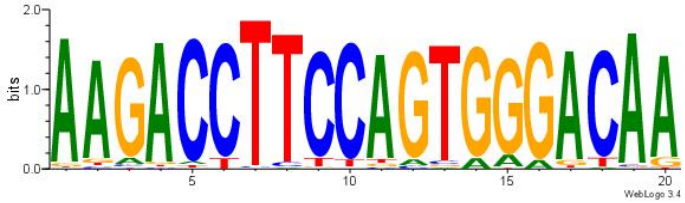

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

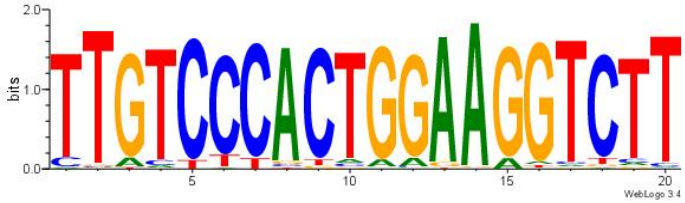

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.133905

Alignment:
GGATCCACTGGGTGAAGCCA
-GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

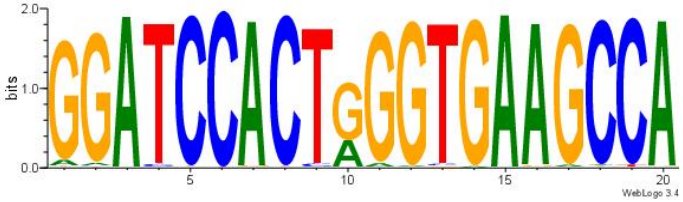

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

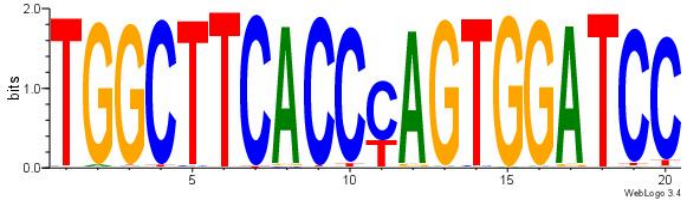

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.133952

Alignment:
GGCATCACGGATCCTACCAA
-GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

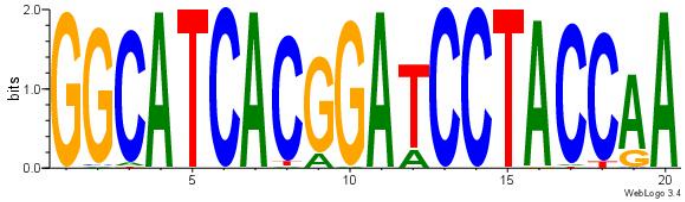

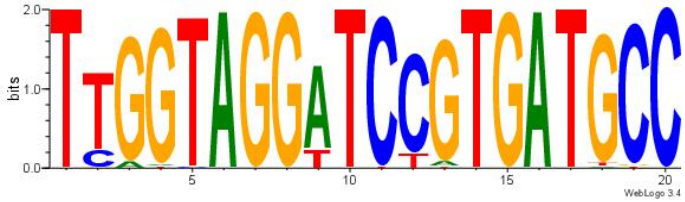

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.134166

Alignment:

```
CTATTGTGAATARTGCTGC
-CATTTCCAWCTGAGGTAC
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

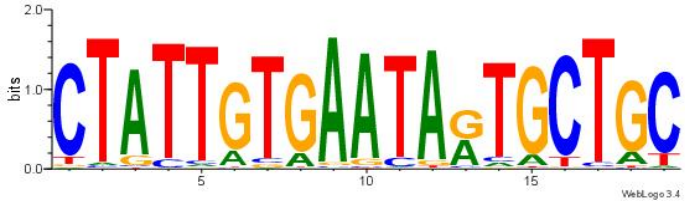

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

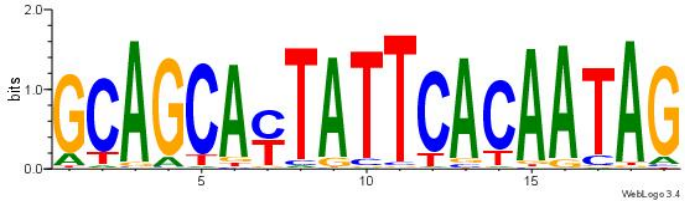

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.134487

Alignment:
CAAAGGCATAAGAATGAT
CATTTCCAWCTGAGGTAC

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

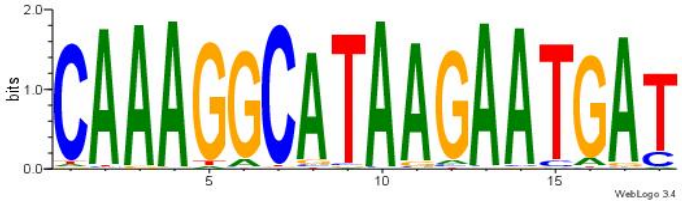

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

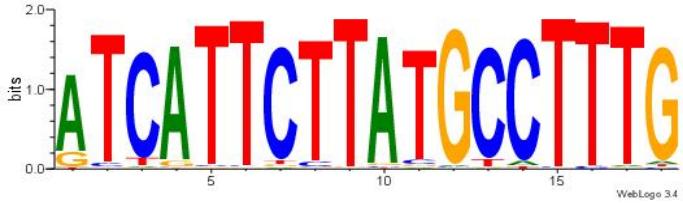

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.134634

Alignment:
CCGCTGCACTGTGGGAGCCC
-CATTTCCAWCTGAGGTAC-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

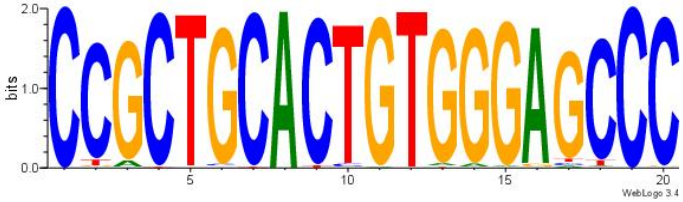

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

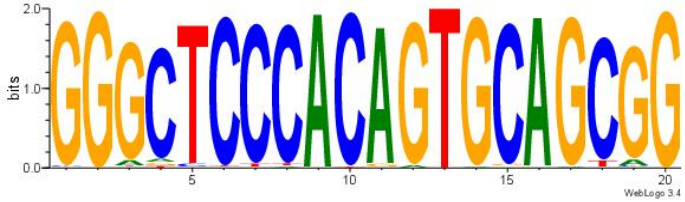

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.135074

Alignment:
CAAGGGTATAYGAGTAGCTG
CATTTCCAWCTGAGGTAC--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

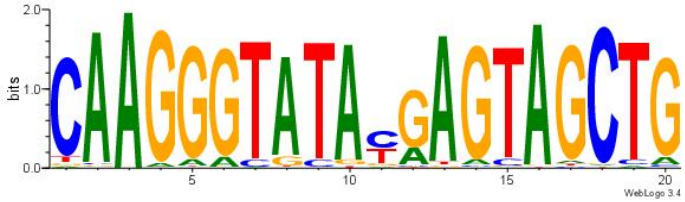

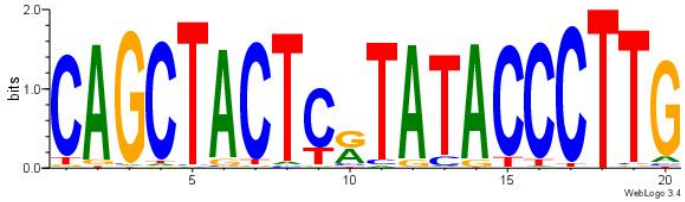

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.135464

Alignment:

```
ATGGCCTATGACYGSTTTG
-GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

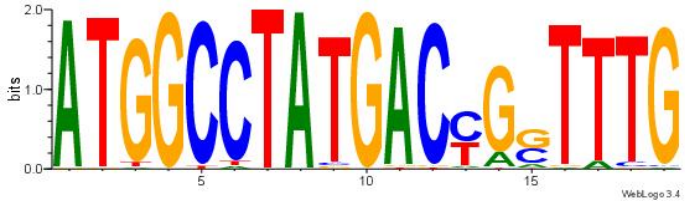

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

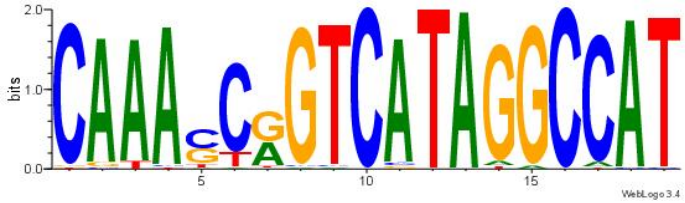

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.13588

Alignment:

```
AGTAGGTGCTCARTAAATRB
-GTACCTCAGWTGGAAATG-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

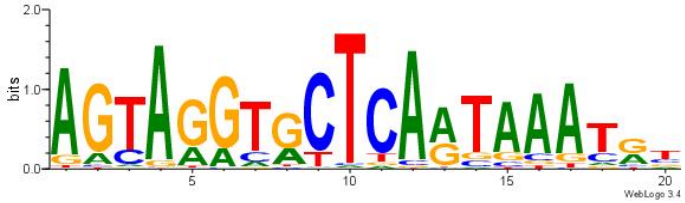

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

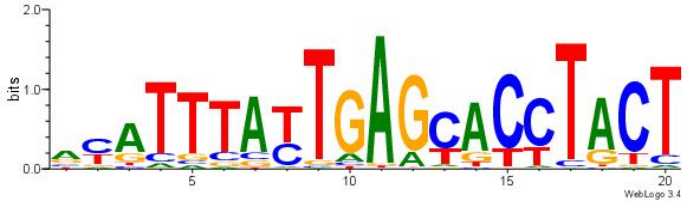

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.138558

Alignment:
ACCTGGAAAATCGGGTCACT
-CATTTCCAWCTGAGGTAC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

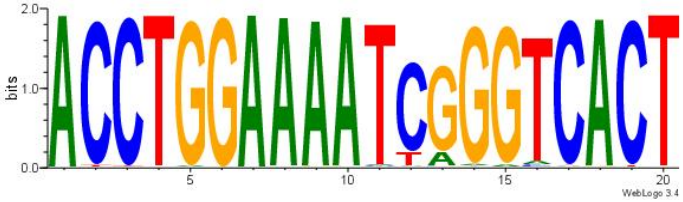

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

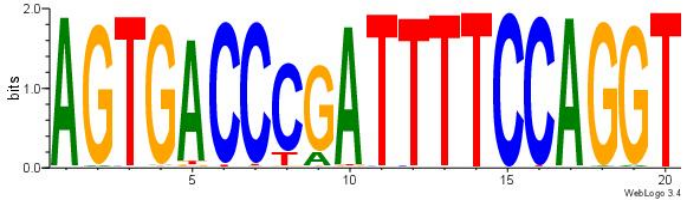

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.138696

Alignment:
CTTGCCCAAGGTCACACAGC
-GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

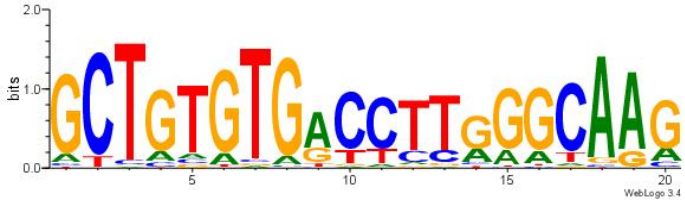

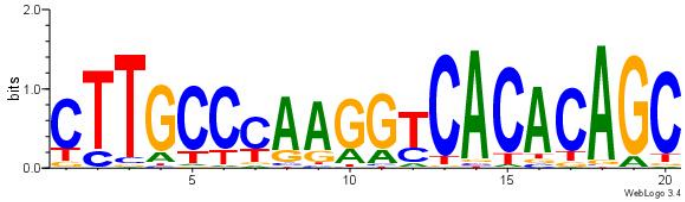

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.138852

Alignment:

```
TGCCCAGTCTGGAAAGTG
GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

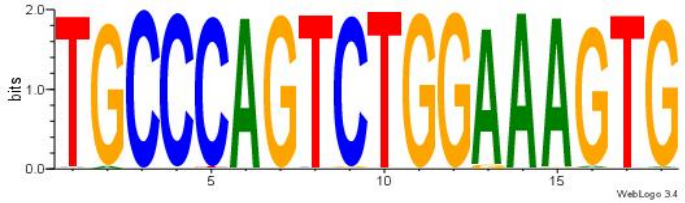

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

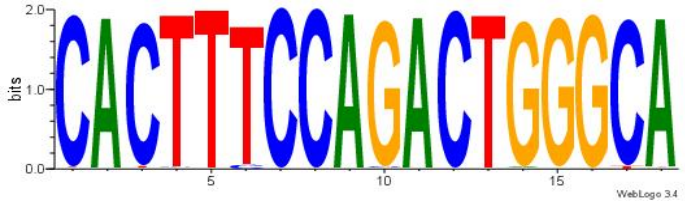

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.139278

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-CATTTCCAWCTGAGGTAC-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

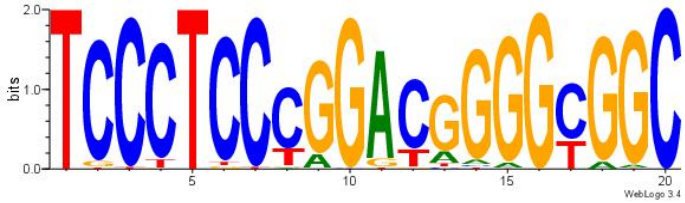

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

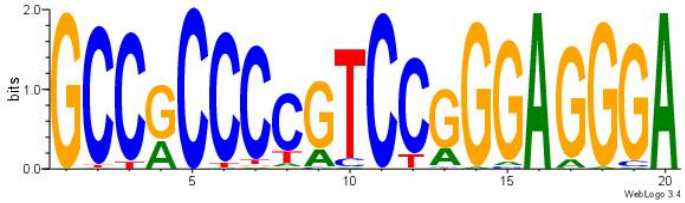

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.139434

Alignment:
ATCTGACAGGAGGYRGAGCT
GTACCTCAGWTGGAAATG--

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

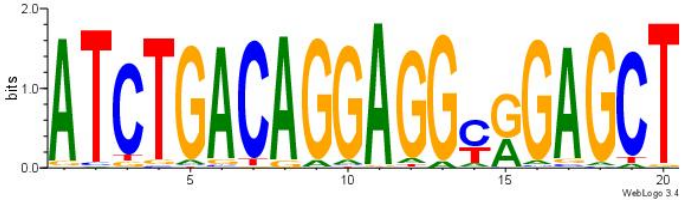

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

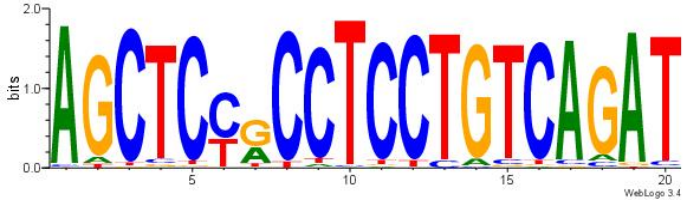

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.140698

Alignment:
GCCKGGMKCMGTGGCTCAKG
--GTACCTCAGWTGGAAATG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

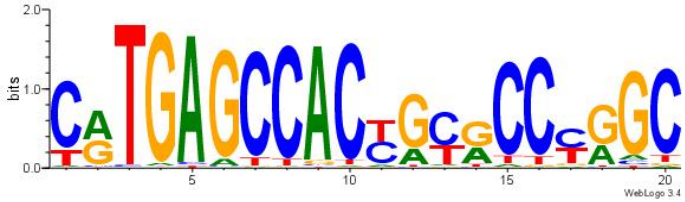

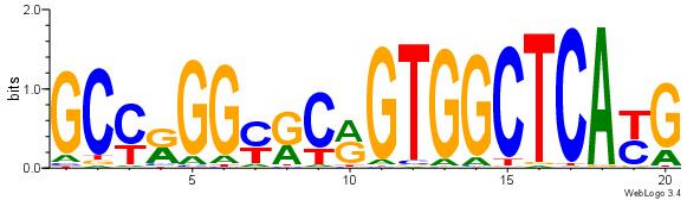

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.140733

Alignment:

```
ATACAATGGGGGTACAGRC
GTACCTCAGWTGGAAATG-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

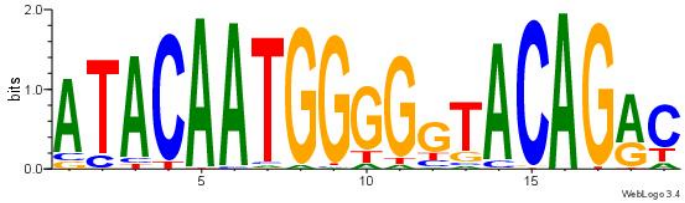

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

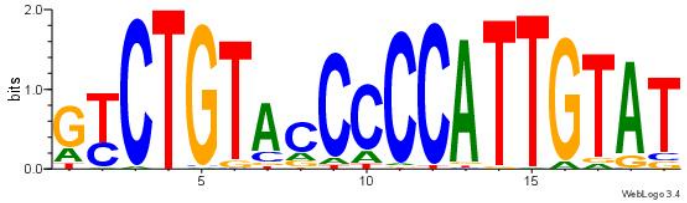

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.140744

Alignment:

```
CAAGTTGACACATAAAATTA
--CATTTCCAWCTGAGGTAC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

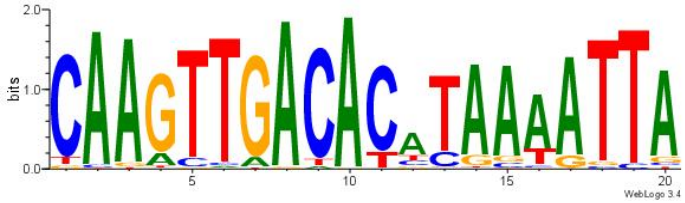

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

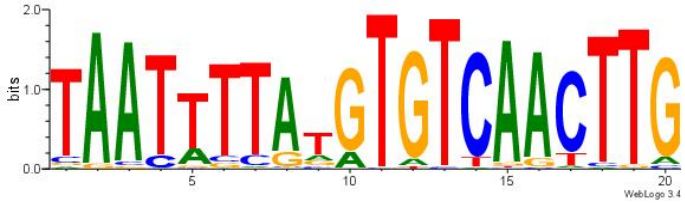

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.140752

Alignment:
CGGCTTCATTCTTGAAGTC
GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

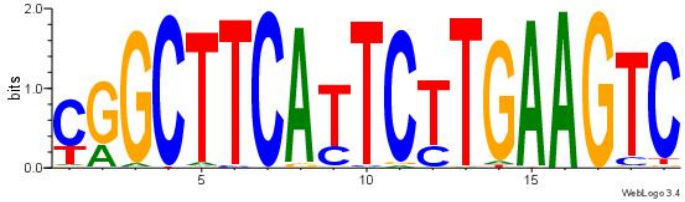

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.140955

Alignment:
CGAGCCTCCCCGAYGAGCGC
-GTACCTCAGWTGGAAATG-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

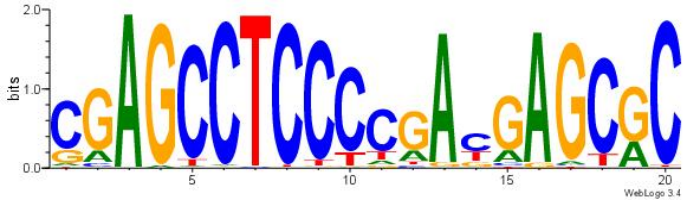

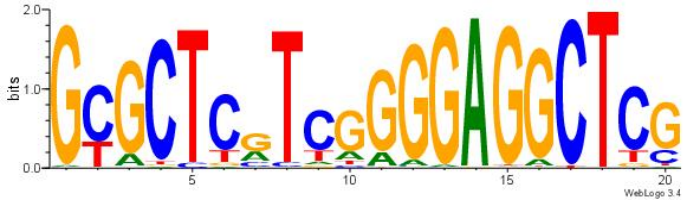

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.141545

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-CATTTCCAWCTGAGGTAC-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

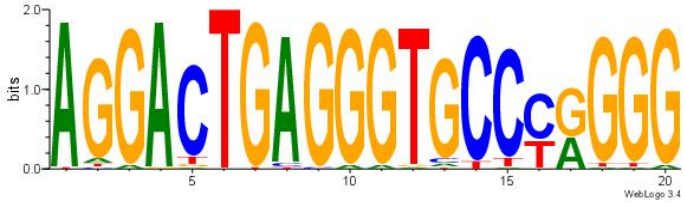

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

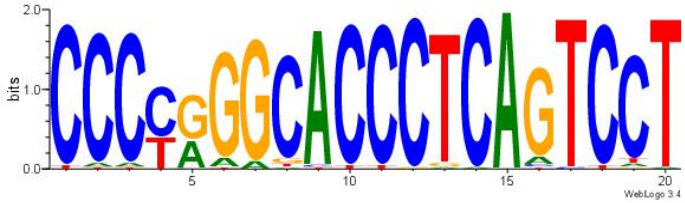

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.141609

Alignment:

```
MGGGATATAATCTCCTGGTG
--GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

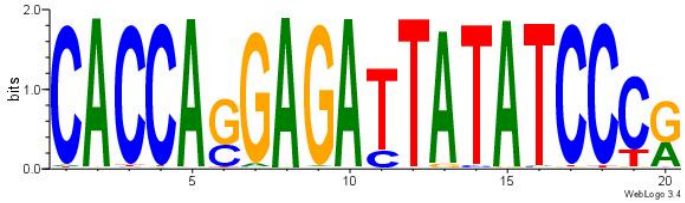

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

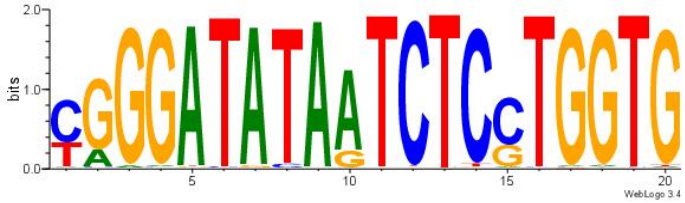

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.142128

Alignment:
AAGTCCAAGATCAAGGTGYY
GTACCTCAGWTGGAAATG--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

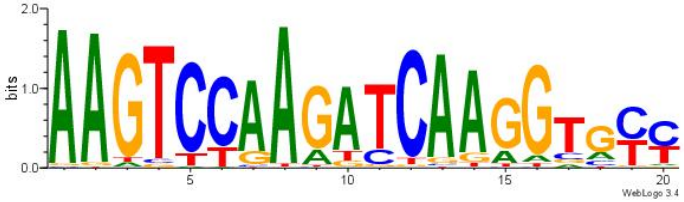

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

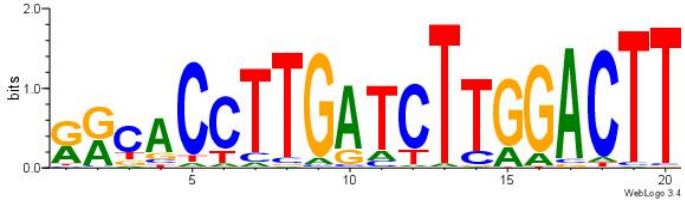

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.142278

Alignment:
GTGGCCCTCTTCTCACAGCT
--GTACCTCAGWTGGAAATG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

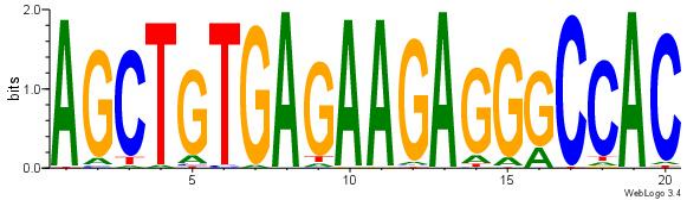

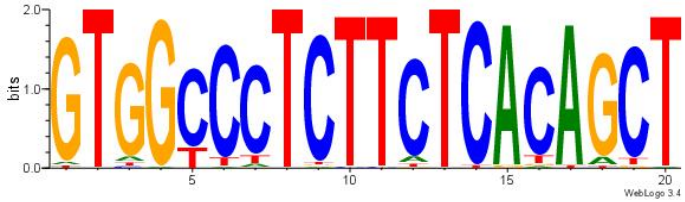

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.142479

Alignment:

```
AAATTACCCAGTCTCAGGTA
--GTACCTCAGWTGGAAATG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

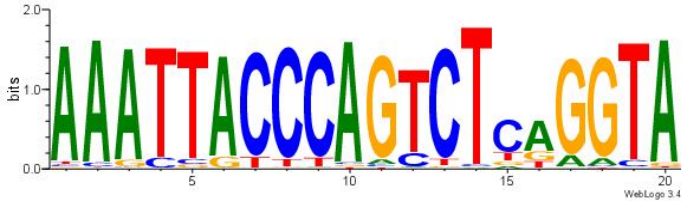

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

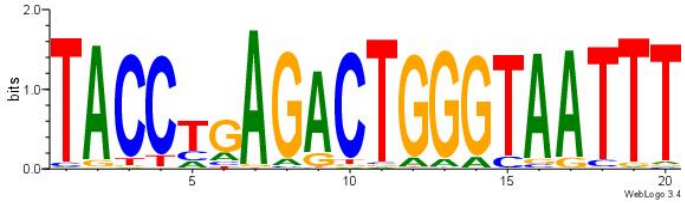

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.142568

Alignment:

```
GCACATGTAYCCYAGAACTT
-CATTTCCAWCTGAGGTAC-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

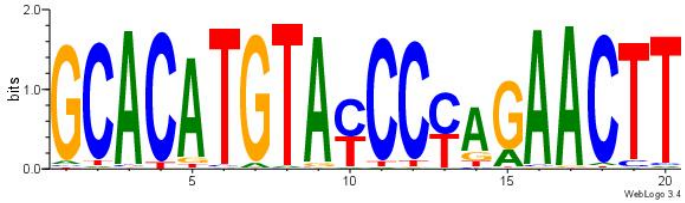

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

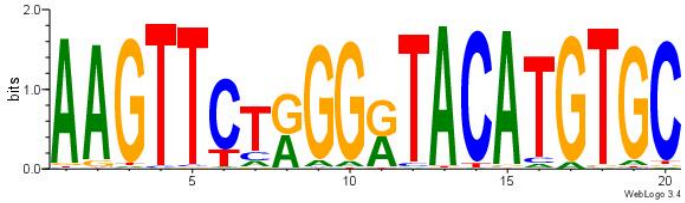

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.142983

Alignment:
CATTCTGGGGTCTGGAGGAY
CATTTCCAWCTGAGGTAC--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

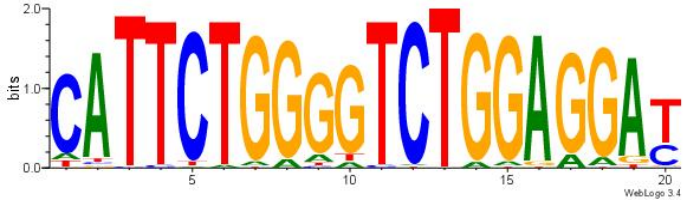

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

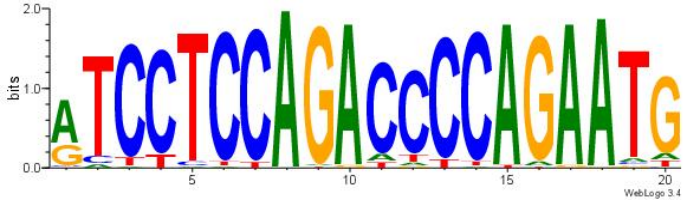

Dataset #: 1 Motif ID: 26 Motif name: Motif 26

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

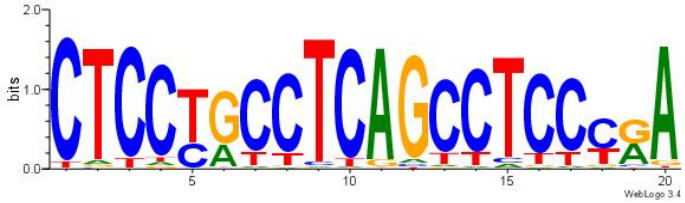

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

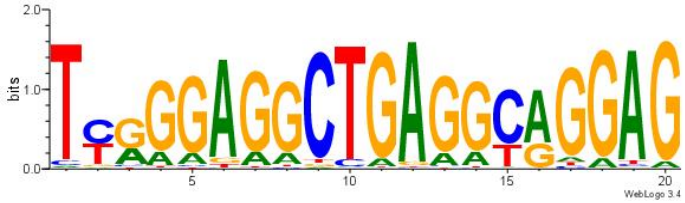

Best Matches for Motif ID 26 (Highest to Lowest)

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0991184

Alignment:
CACCAGACTCAGGAGCCCAG
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

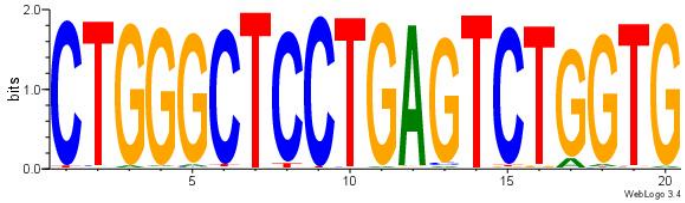

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

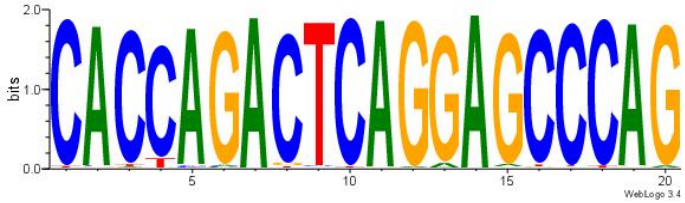

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111358

Alignment:

CAACATGGATGRARCTGGAG
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

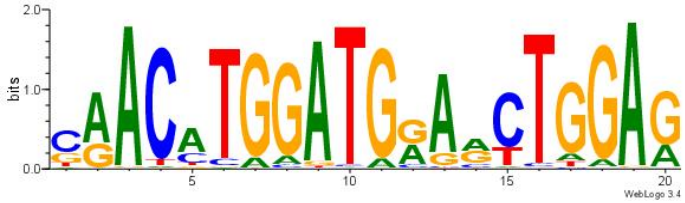

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

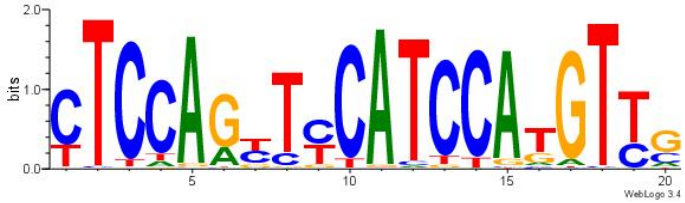

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113787

Alignment:
MGTCTMKCTCTGTKGCCCAG
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

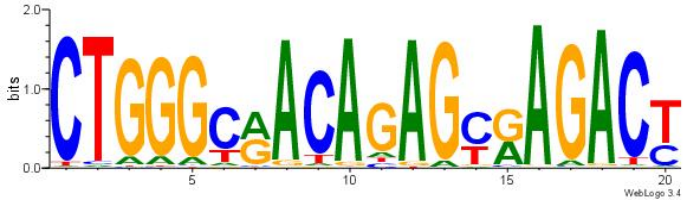

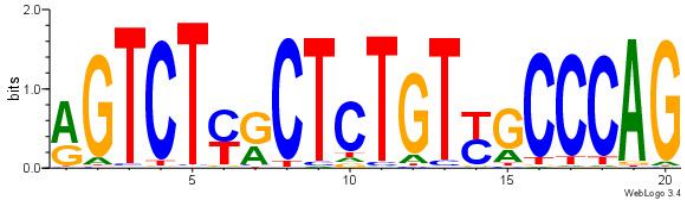

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115298

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
TMGGGAGGCTGAGGCAGGAG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

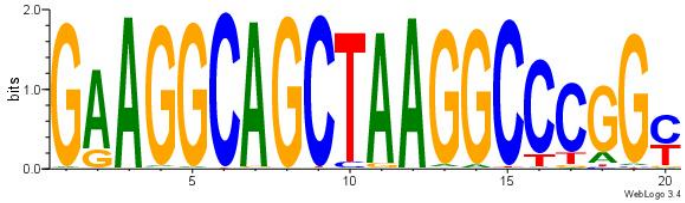

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

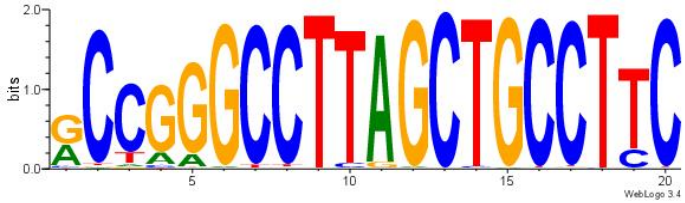

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121771

Alignment:
GAGAGAGAGAGAGAGAGAGA
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

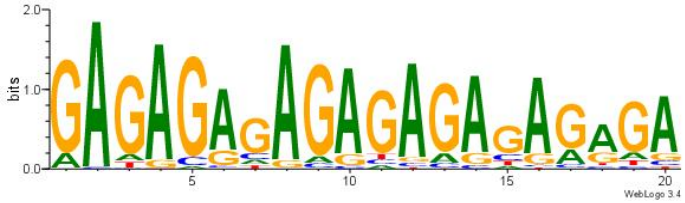

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

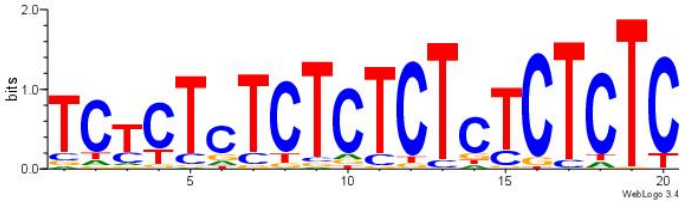

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.122893

Alignment:
HAGTGGKATTGCTGGATCAT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

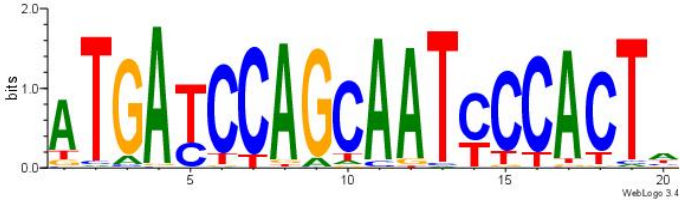

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

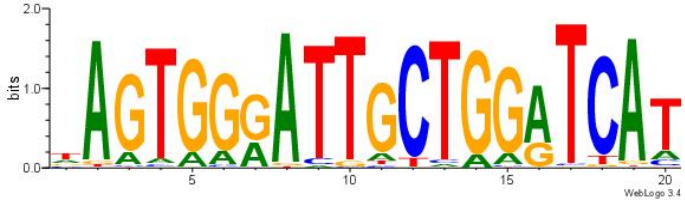

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.123423

Alignment:
GGCATCACGGATCCTACCAA
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

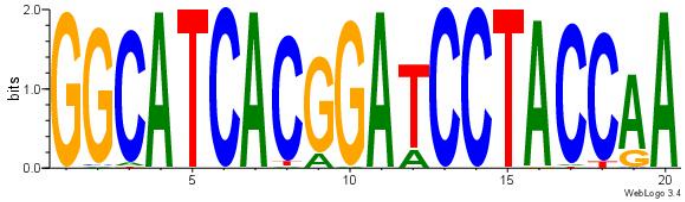

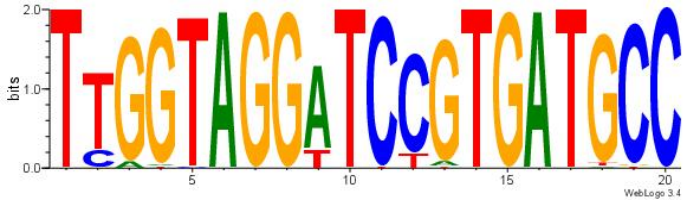

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124122

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CTCCTGCCTCAGCCTCCCRA
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

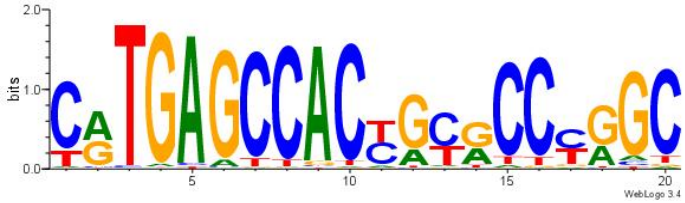

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

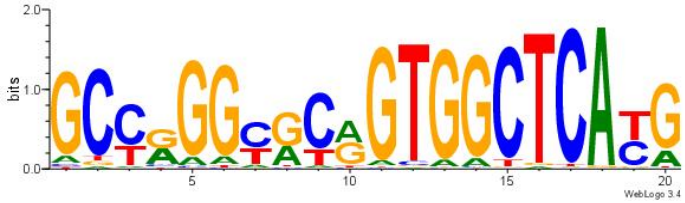

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127878

Alignment:

```
AGCCYCTGGYAACCAYYAWT
CTCCTGCCTCAGCCTCCCRA
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

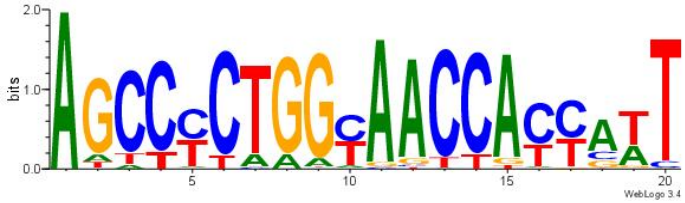

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

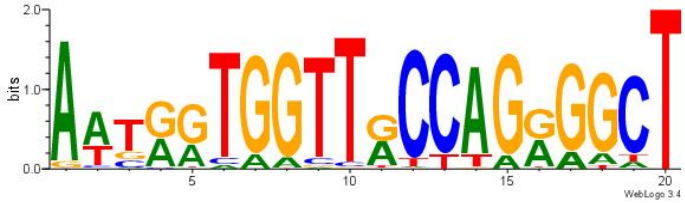

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132951

Alignment:
AGTAGGTGCTCARTAAATRB
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

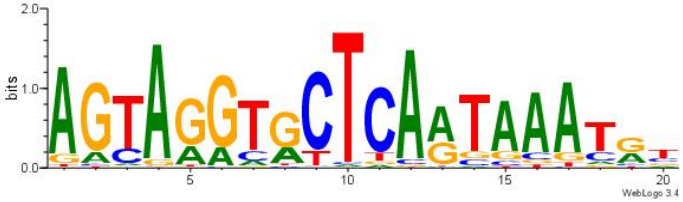

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

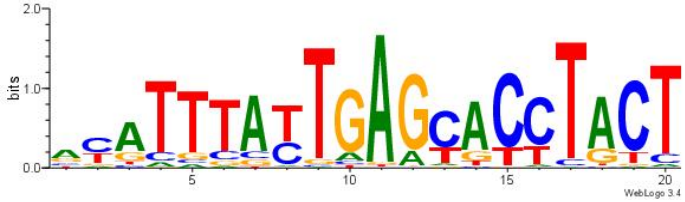

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133891

Alignment:
GTGCCAGGCACTGTKCTARG
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

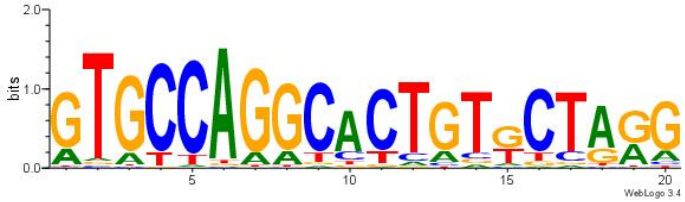

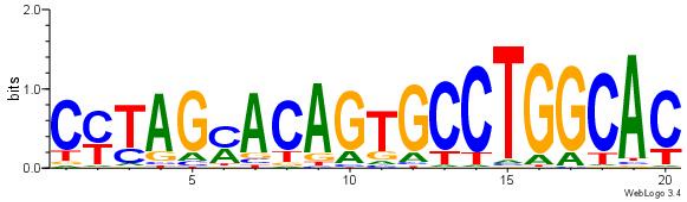

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134391

Alignment:

```
GACAGGAGATTAACACTGAG
TMGGGAGGCTGAGGCAGGAG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

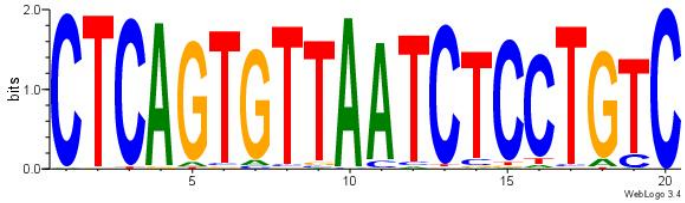

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

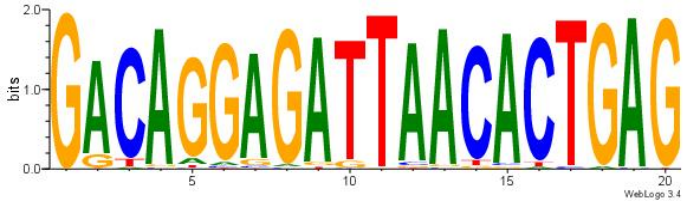

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135966

Alignment:

CTAGACATAAAGGTTCTCCA

CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

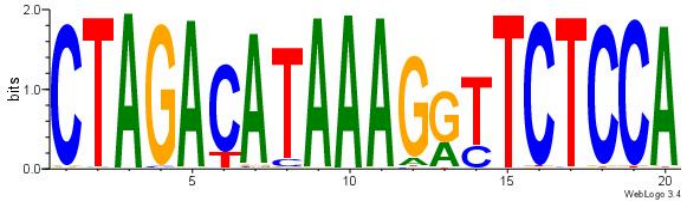

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

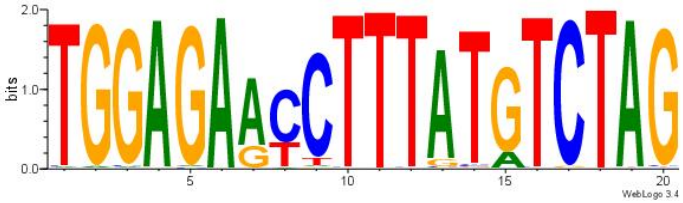

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.137776

Alignment:
TCTGGAGTGGACCTCCAGCA
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

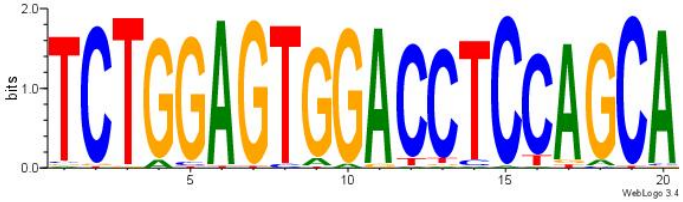

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

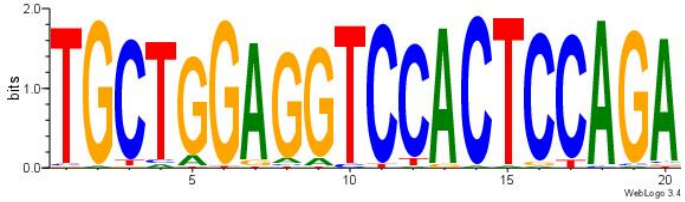

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138121

Alignment:
AAATTAGGCCAATTAATAAC
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

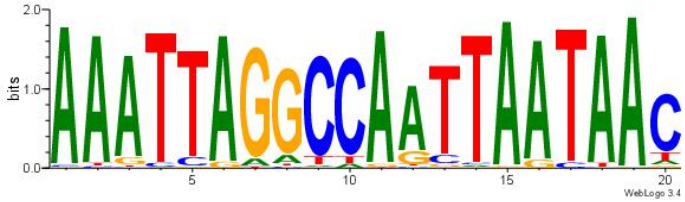

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138702

Alignment:
GGAGCCGGCTCCCTCAGCTT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

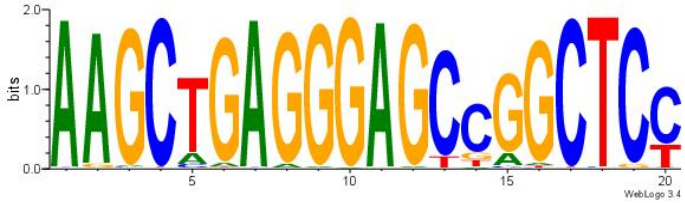

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

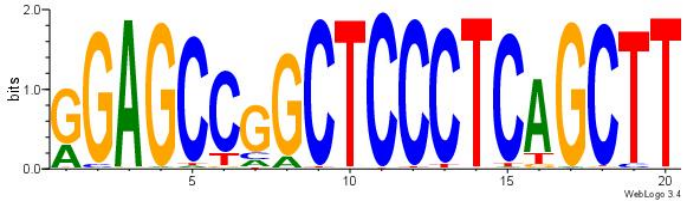

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138928

Alignment:

```
ACTTTGGACTGTGGACTTTT
TMGGGAGGCTGAGGCAGGAG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

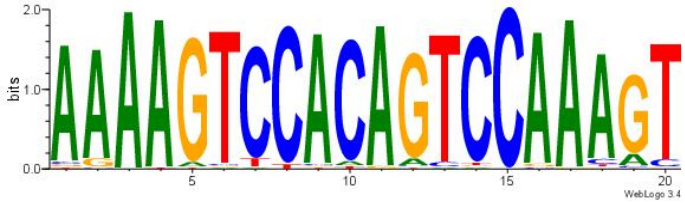

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

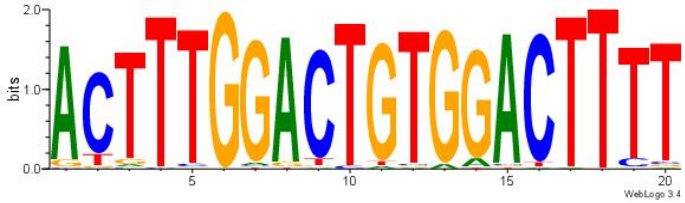

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140164

Alignment:
CATTCTGGGGTCTGGAGGAY
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

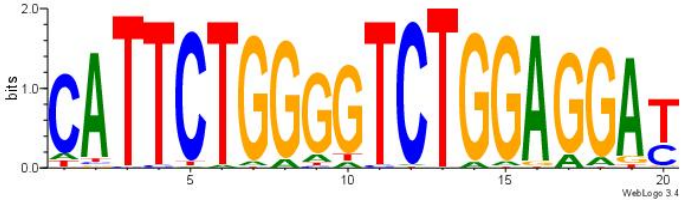

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

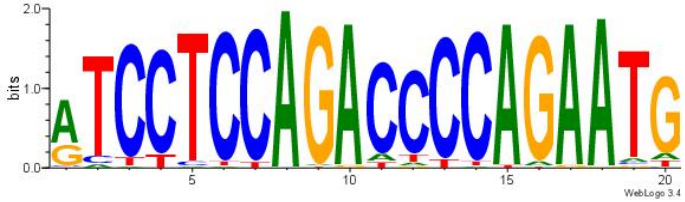

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140403

Alignment:
CCCMKGGCACCCTCAGTCCT
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

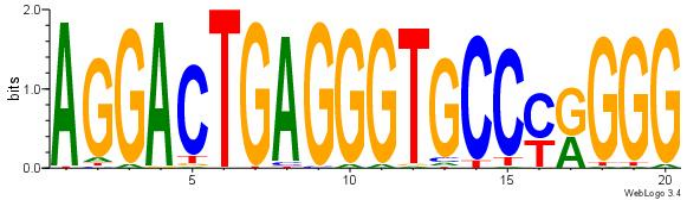

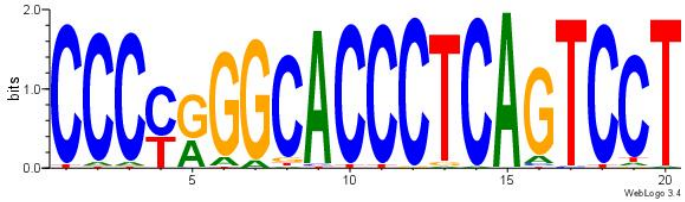

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141096

Alignment:
CGCGGCGCTTGCGGGCCAGC
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

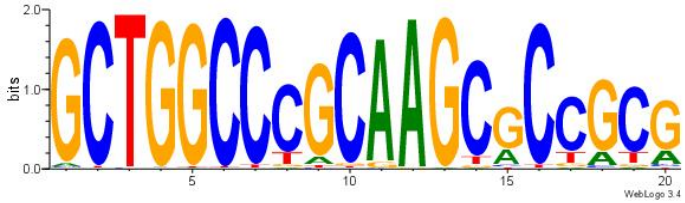

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

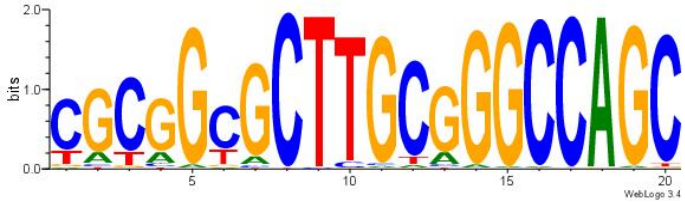

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141271

Alignment:

AAATTACCCAGTCTCAGGTA

TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

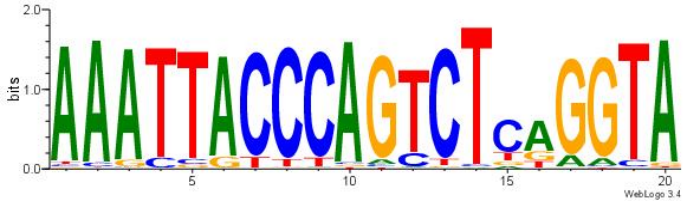

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

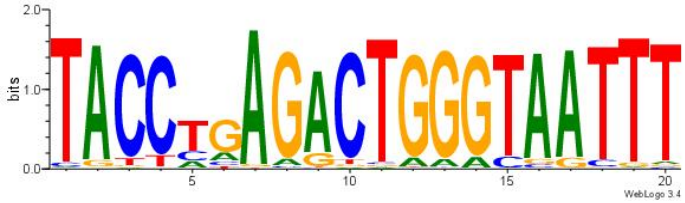

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141625

Alignment:
CCCGAAGCTGCRYRCTCGGT
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

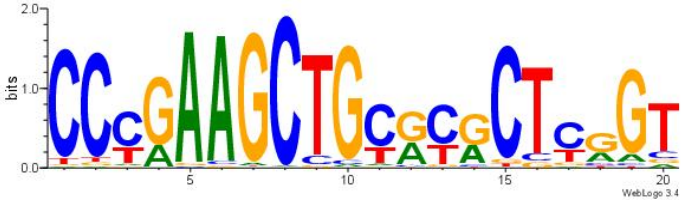

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

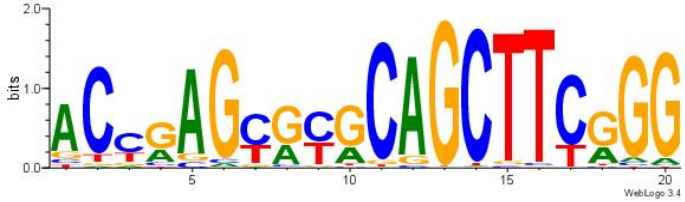

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142083

Alignment:
GGGCTCCCACAGTGCAGCGG
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

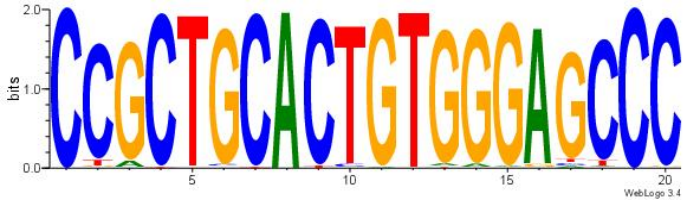

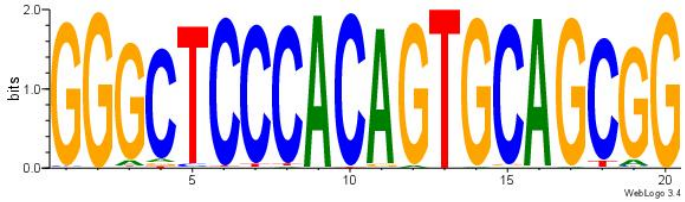

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143691

Alignment:
CAGCTACTCKTATACCCTTG
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

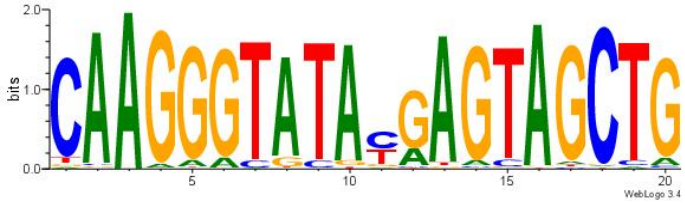

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

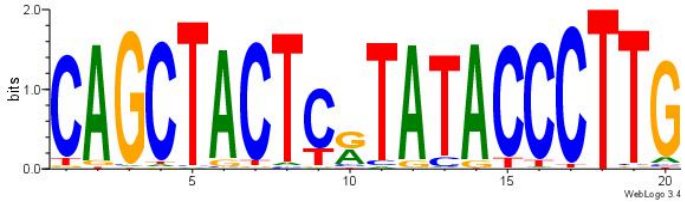

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143869

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
CTCCTGCCTCAGCCTCCCRA
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

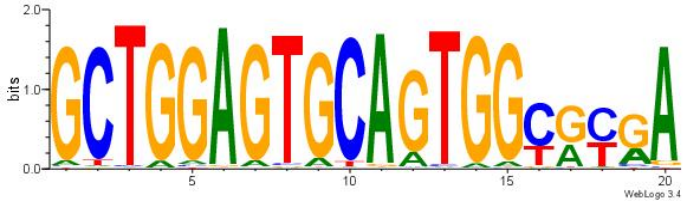

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

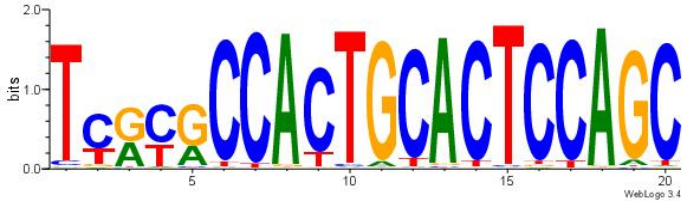

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145352

Alignment:
TYTGTCMTTTTGTGACTGGC
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

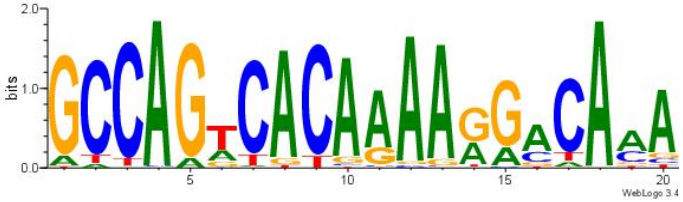

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

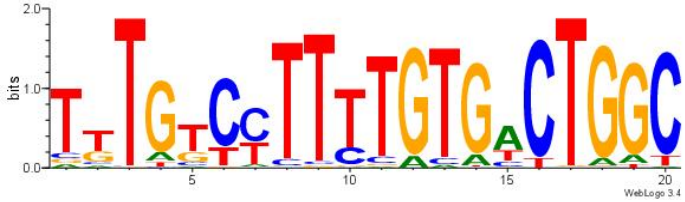

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146013

Alignment:
CAGGTGGTKTTTGGTTACAT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

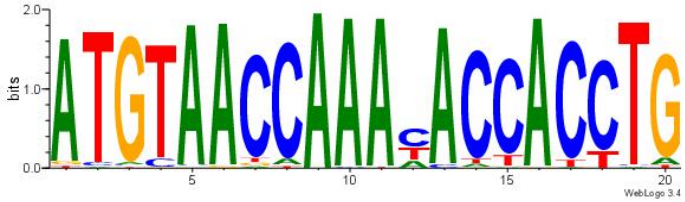

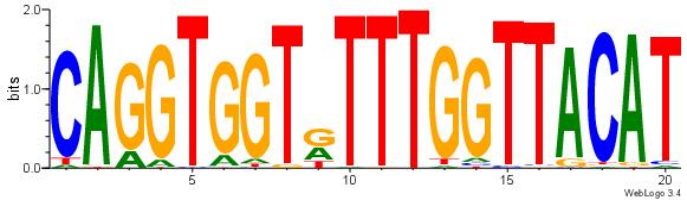

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146797

Alignment:
GCCKCCCCGTCCGGGAGGGA
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

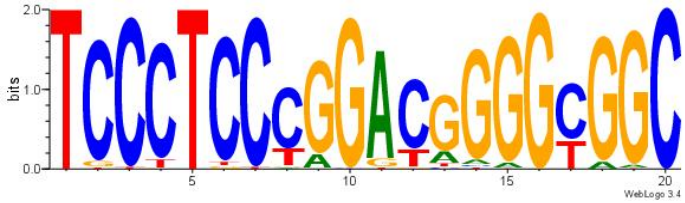

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

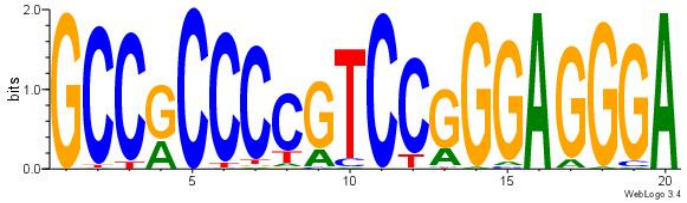

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146984

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
CTCCTGCCTCAGCCTCCCRA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

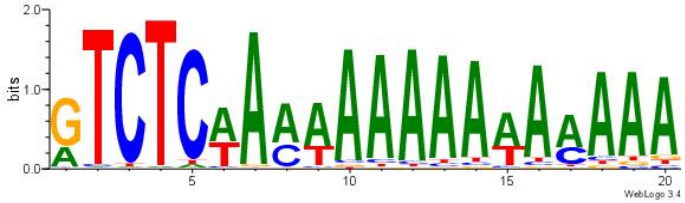

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

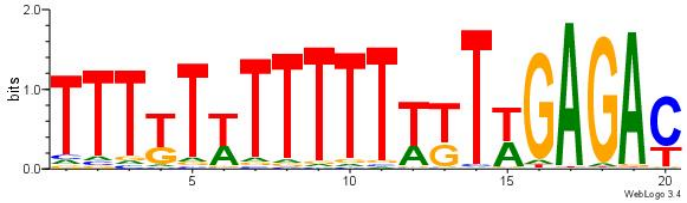

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147062

Alignment:
AGCTCMKCCTCCTGTCAGAT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

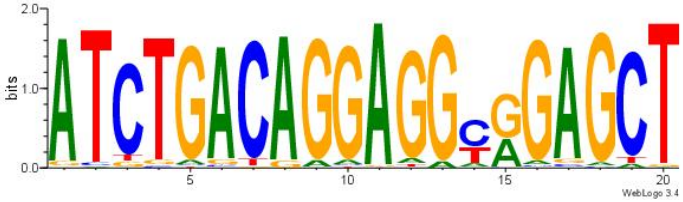

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

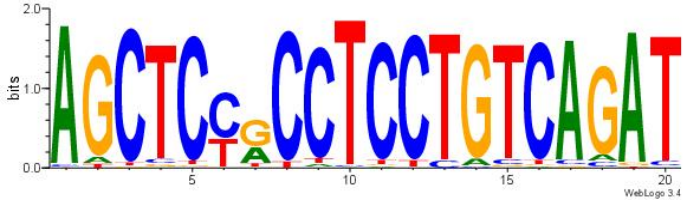

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147256

Alignment:
ACTGTCTTCCACCTCCACAT
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

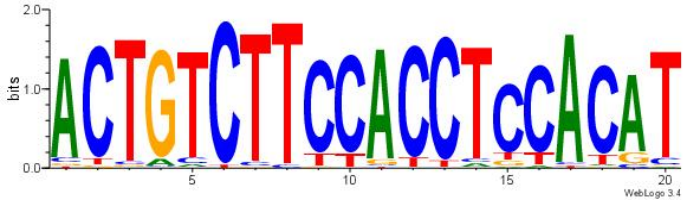

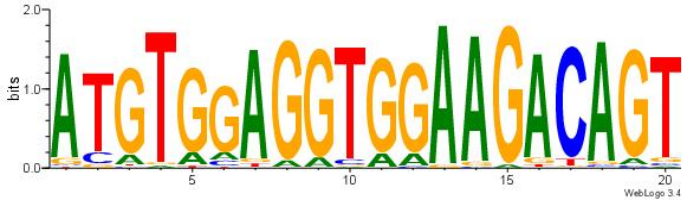

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147669

Alignment:
AATCAACCCTGGYRATCAAT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

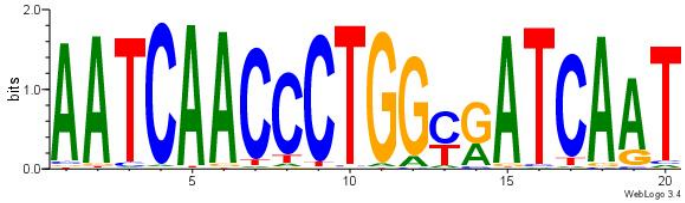

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

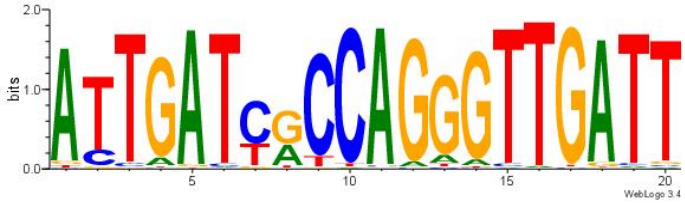

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148002

Alignment:
GGCACTGCTGGGGGACCCAG
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

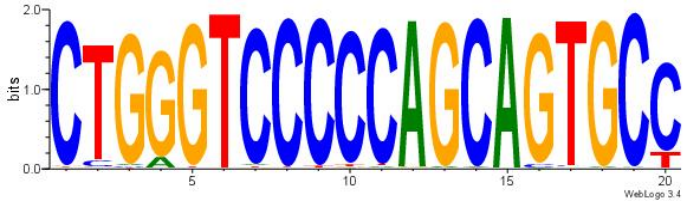

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

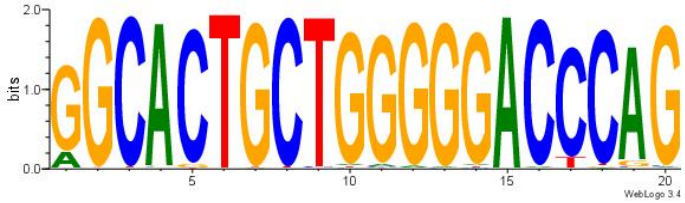

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148101

Alignment:
GGTGGAGCTGCCTGCCAGTC
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

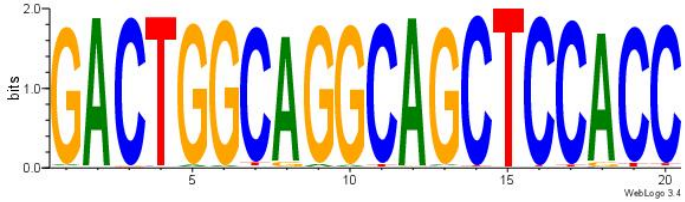

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

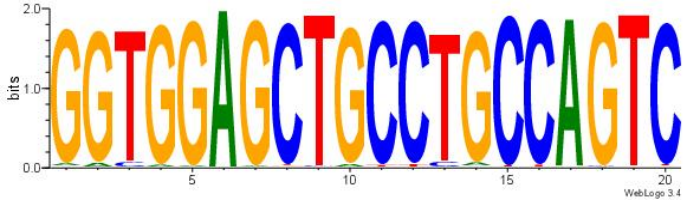

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151555

Alignment:
TTCAMTCATGATTTGGCTCT
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

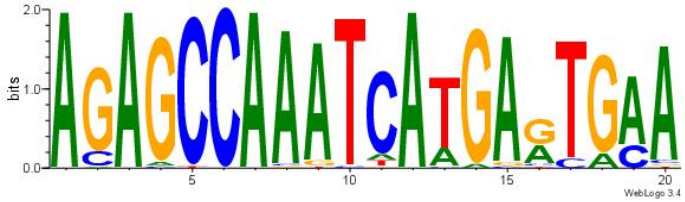

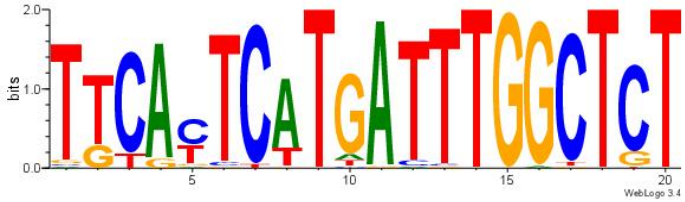

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151875

Alignment:

```
GCTGTGTGACCTTGGGCAAG
TMGGGAGGCTGAGGCAGGAG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

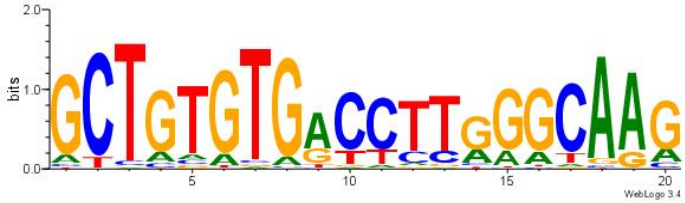

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

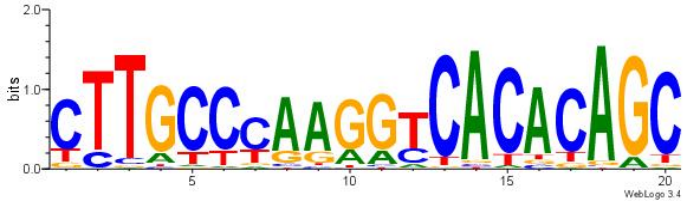

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15208

Alignment:
GCGCTCKTCGGGGAGGCTCG
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

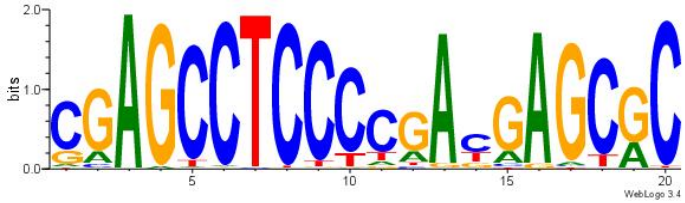

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

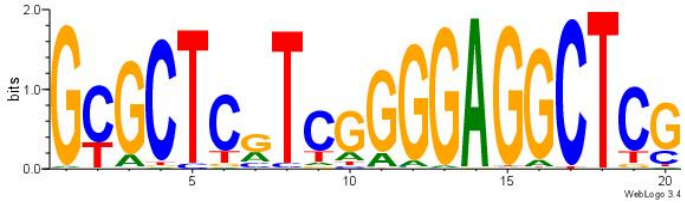

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153286

Alignment:
ATGGAATAYTATTCAGCCAT
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

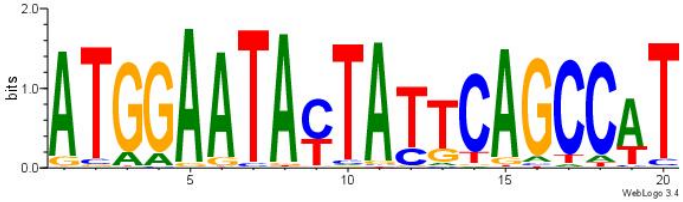

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

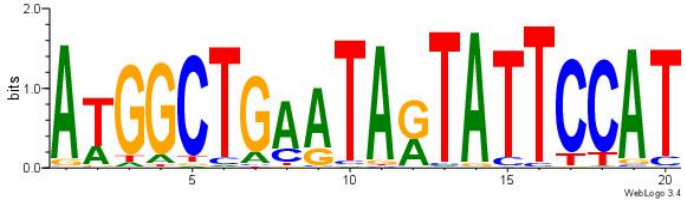

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154579

Alignment:
GAAHCAACCKAAKTGTCCAT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

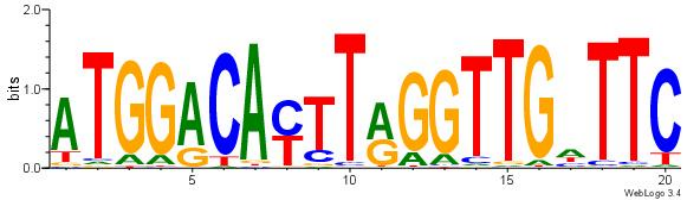

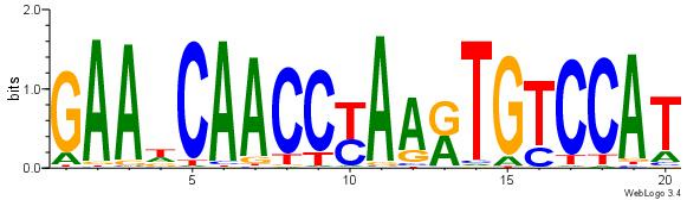

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155959

Alignment:
GGGAGGTGTCTCCCAGTCAG
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

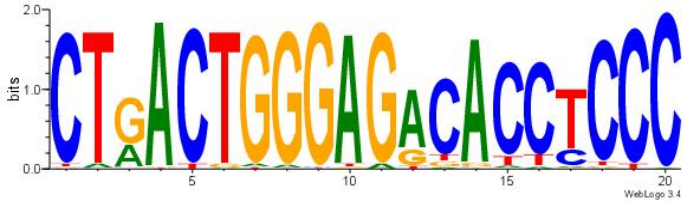

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

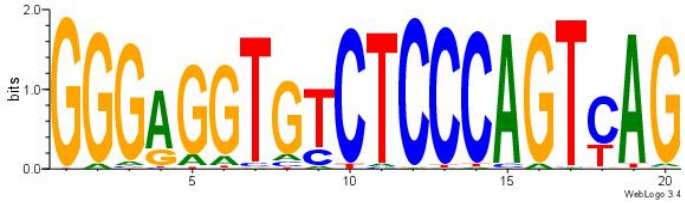

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156982

Alignment:

AAGACCTTCCAGTGGGACAA

CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

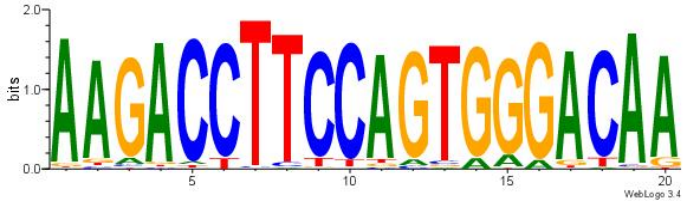

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

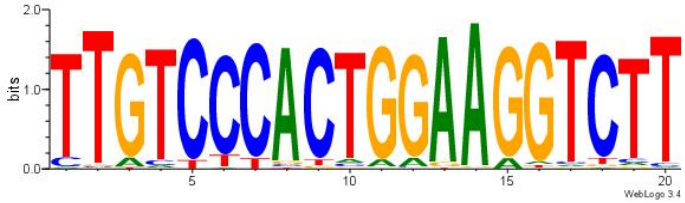

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158375

Alignment:
GCCTCTCCCTCCACACCTCC
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

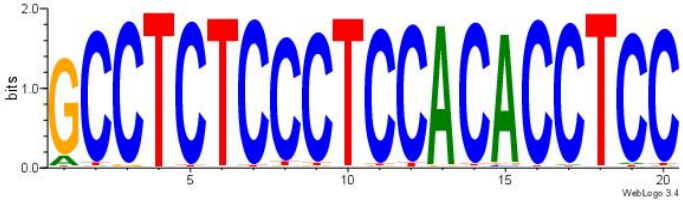

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

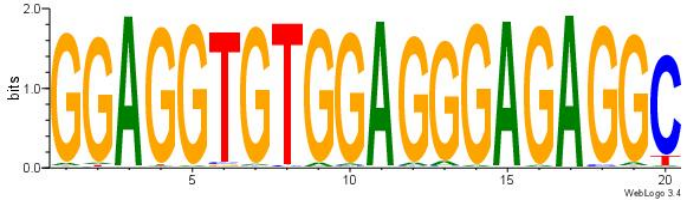

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.159032

Alignment:
ACCKTCGCGGTGAGTGTTAC
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

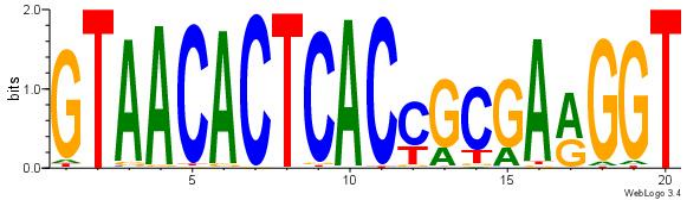

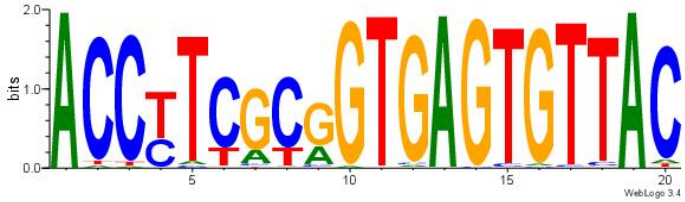

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159372

Alignment:

```
ACCCAATWTGTAGTCTTTTA
CTCCTGCCTCAGCCTCCCRA
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

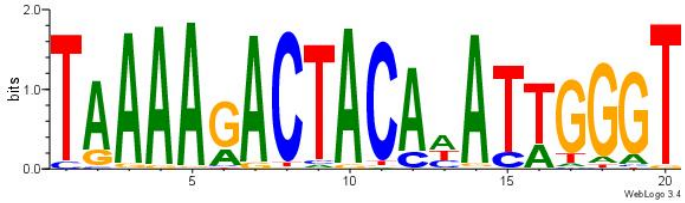

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

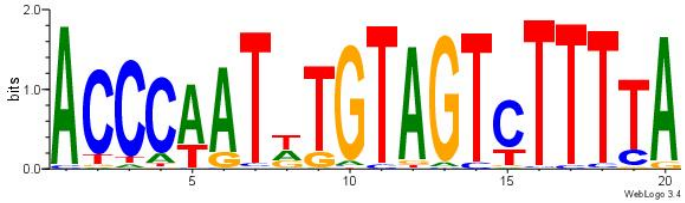

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160111

Alignment:

AGGCCCCAGTGTSTGTTGTT

TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

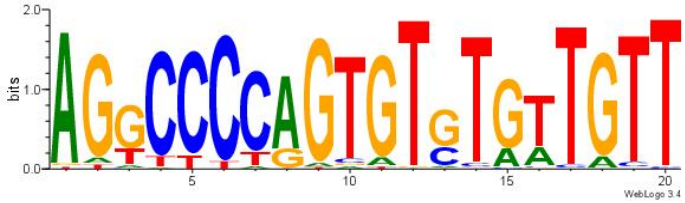

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

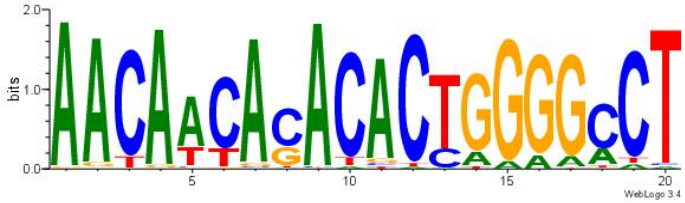

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160161

Alignment:
GTTTAACCATTGAGGGCCAG
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

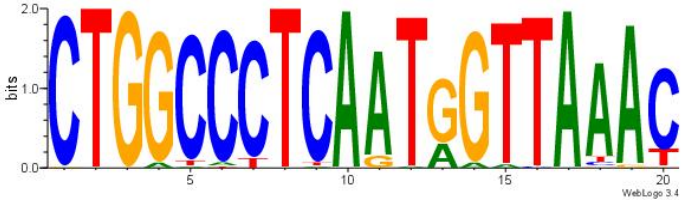

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

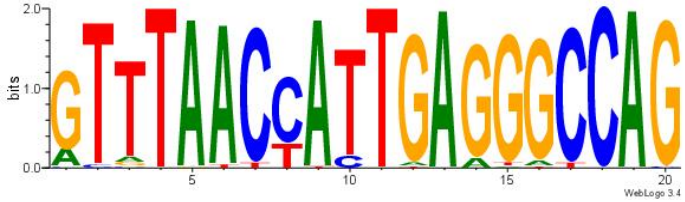

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160269

Alignment:
GCTCCACCCAGTTCGAGCTT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

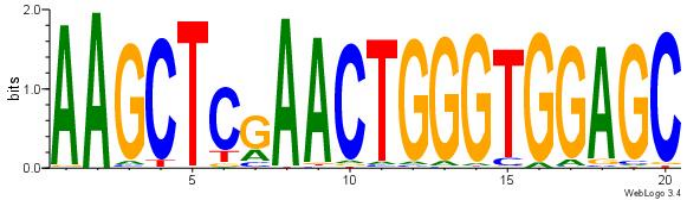

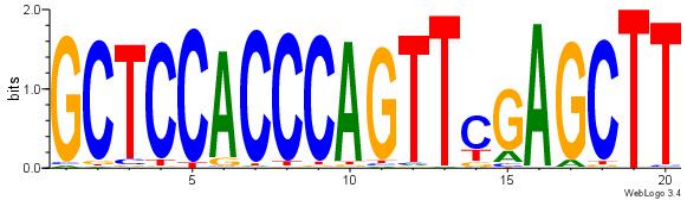

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160714

Alignment:

```
CAAGTTGACACATAAAATTA
TMGGGAGGCTGAGGCAGGAG
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

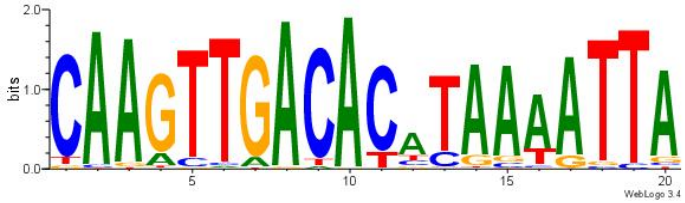

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

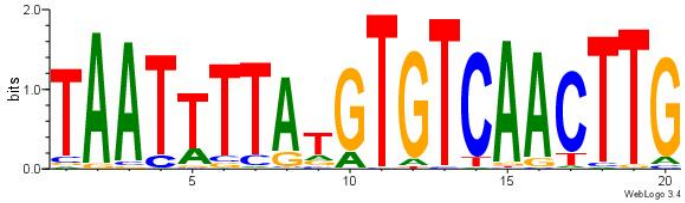

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16168

Alignment:
GTGGCCCTCTTCTCACAGCT
TMGGGAGGCTGAGGCAGGAG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

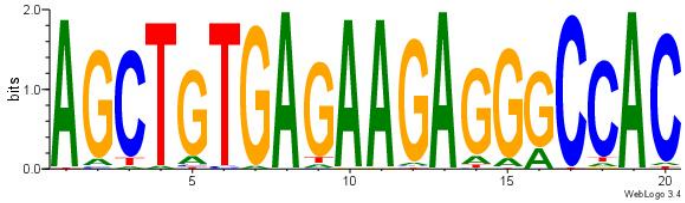

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

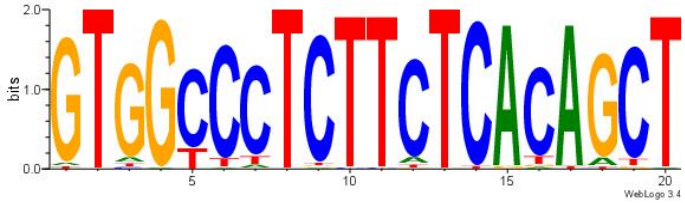

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.162677

Alignment:
CACCAGGAGATTATATCCCR
CTCCTGCCTCAGCCTCCCRA

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

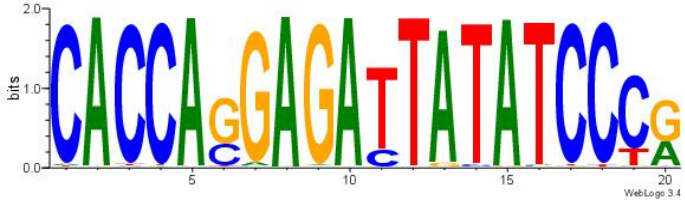

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

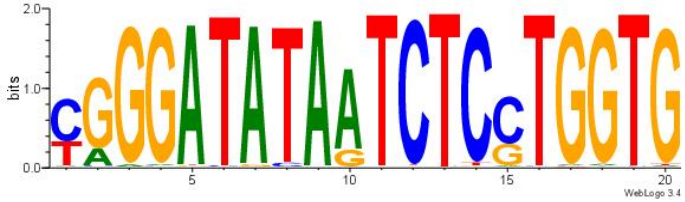

Dataset #: 1 Motif ID: 27 Motif name: Motif 27

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

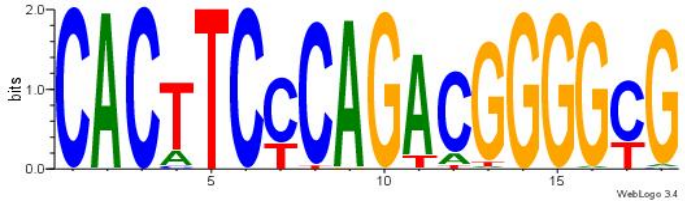

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

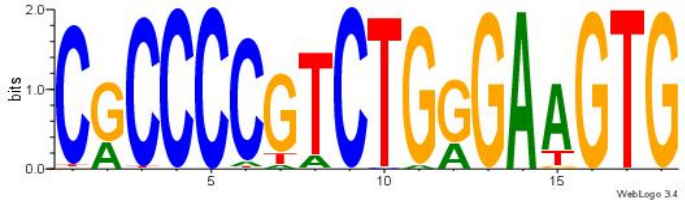

Best Matches for Motif ID 27 (Highest to Lowest)

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0413095

Alignment:

```
CACTTTCCAGACTGGGCA
CACTTCCCAGACGGGGCG
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

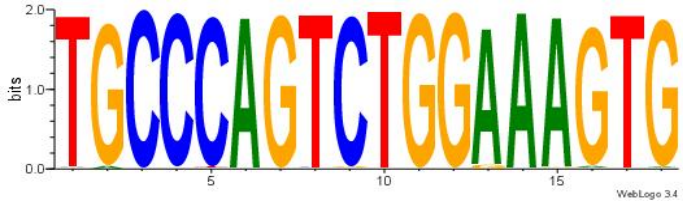

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

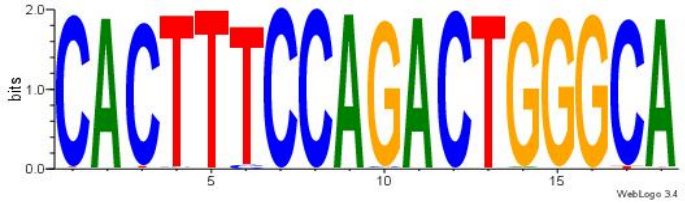

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0525092

Alignment:

TCCCTCCCGGACGGGGYGGC
CACTTCCCAGACGGGGCG--

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

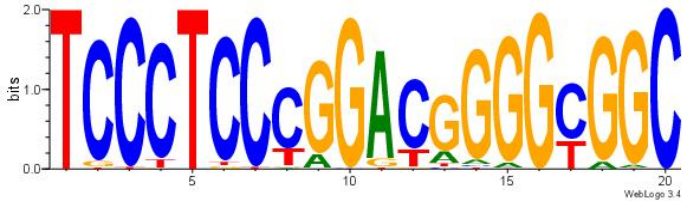

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

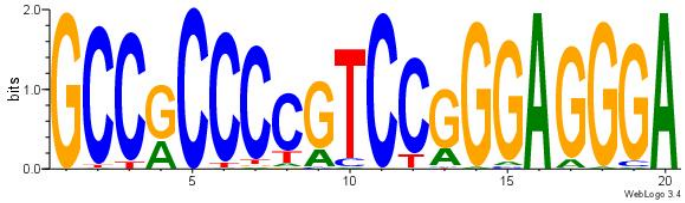

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0884142

Alignment:
GGTGCCCCTCTGGGACRAA
-CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

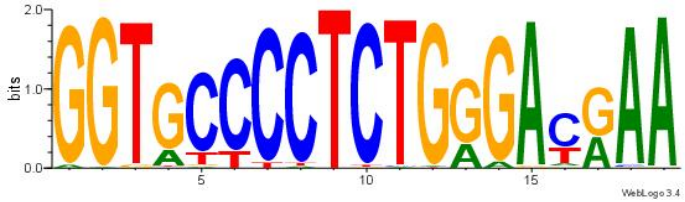

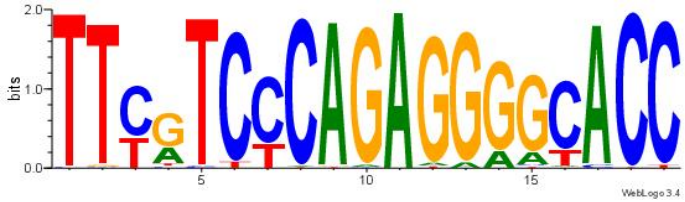

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0977824

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-CGCCCCGTCTGGGAAGTG-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

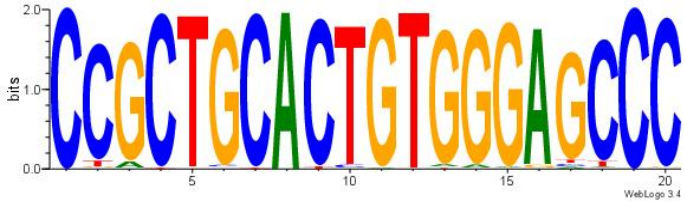

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

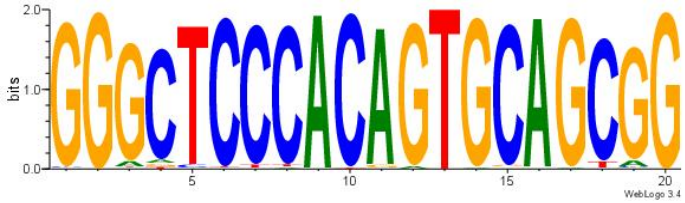

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.0995243

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

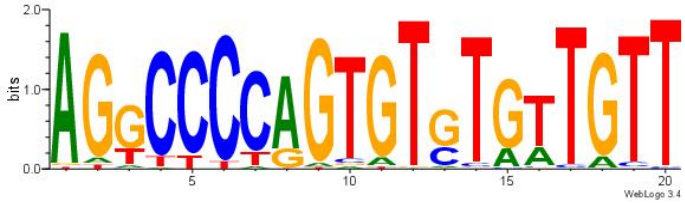

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

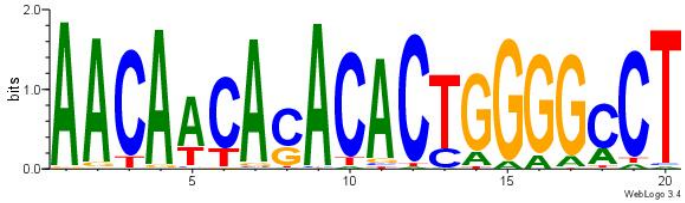

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.101783

Alignment:
AGCTCCCAGCGTGAGCGACG
--CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

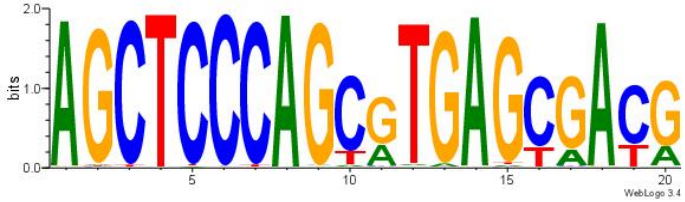

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

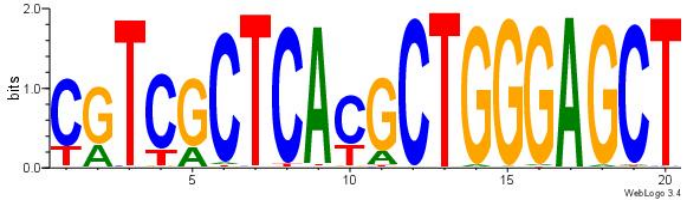

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.104349

Alignment:
AAGCTCGAACTGGGTGGAGC
-CGCCCCGTCTGGGAAGTG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

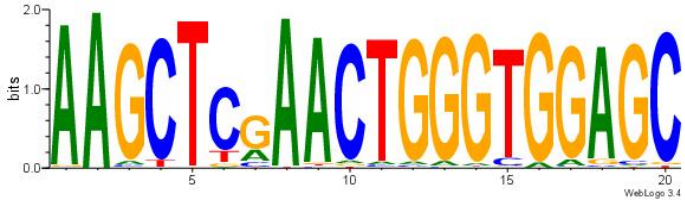

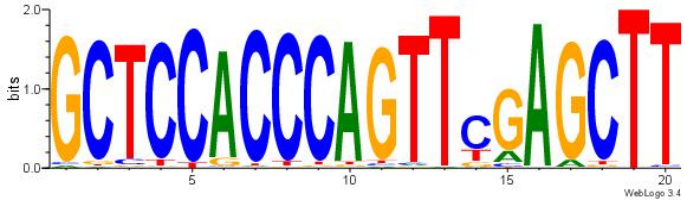

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.106899

Alignment:

```
ACACATCACAAAGCAGTTTC
-CACTTCCCAGACGGGGCG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

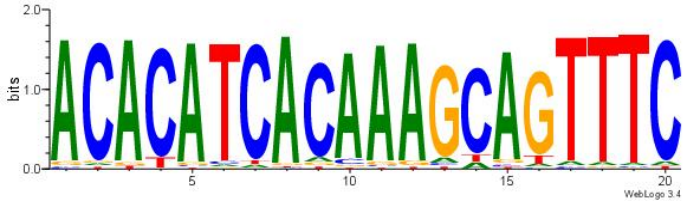

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

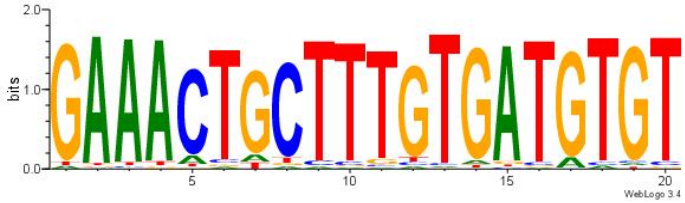

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.108146

Alignment:

```
TTGTCCCACTGGAAGGTCTT
CGCCCCGTCTGGGAAGTG--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

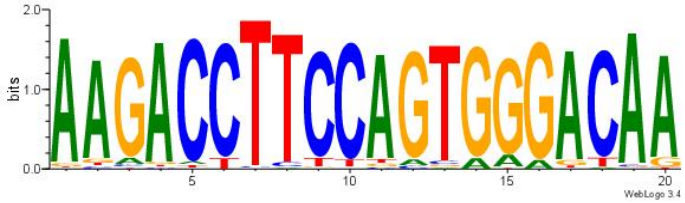

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

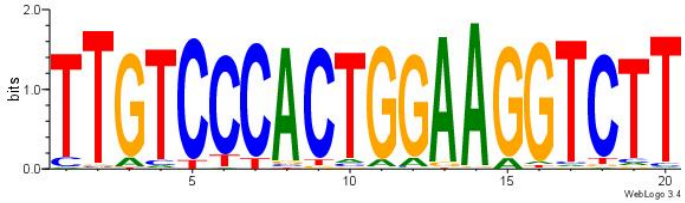

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.109244

Alignment:
CGCCCATCGTCTGGGATGT
CGCCCCGTCTGGGAAGTG-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

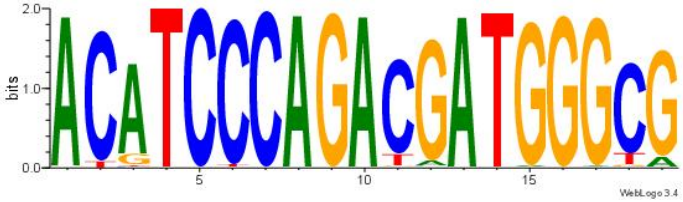

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

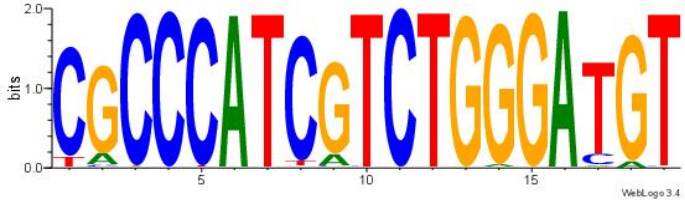

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.111516

Alignment:
CGGCTTCATTCTTGAAGTC
-CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

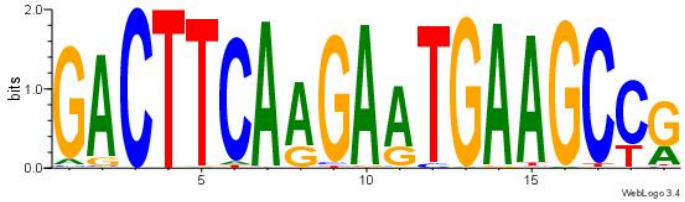

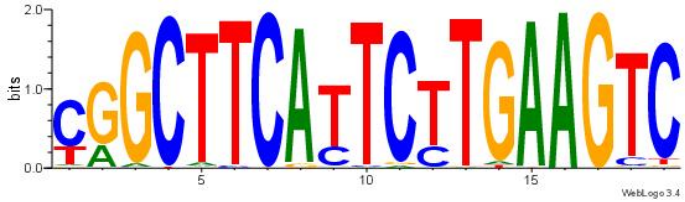

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.111852

Alignment:

```
ACTCCCTAGTGAGATGAACC
CGCCCCGTCTGGGAAGTG--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

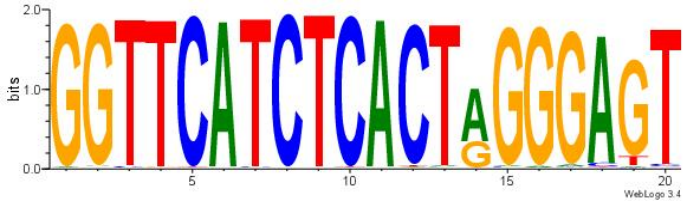

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

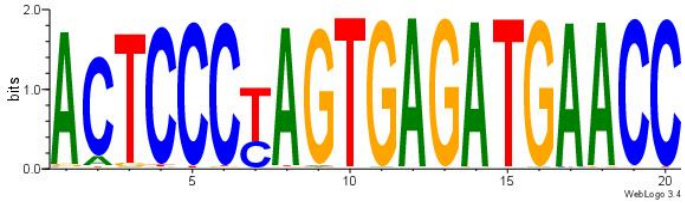

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.112294

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--CACTTCCCAGACGGGGCG
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

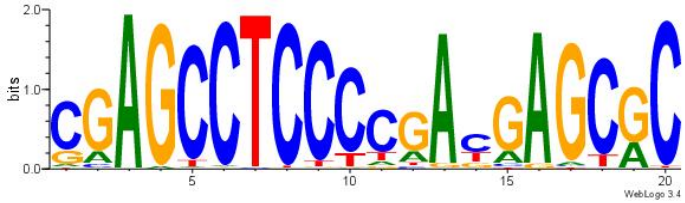

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

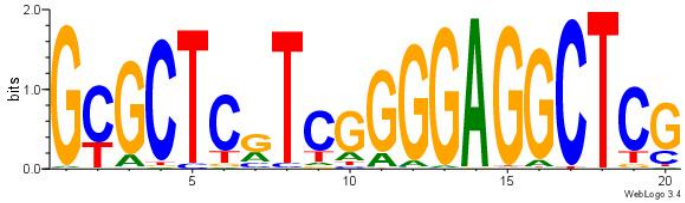

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.112901

Alignment:
AAATTACCCAGTCTCAGGTA
-CACTTCCCAGACGGGGCG-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

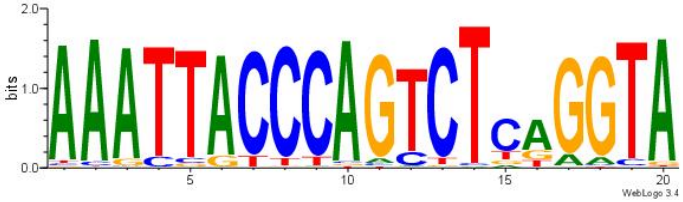

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

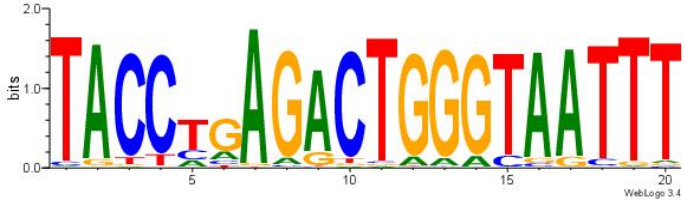

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.114142

Alignment:
CCCACGCCCACCCGGAACT
-CACTTCCCAGACGGGGCG

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

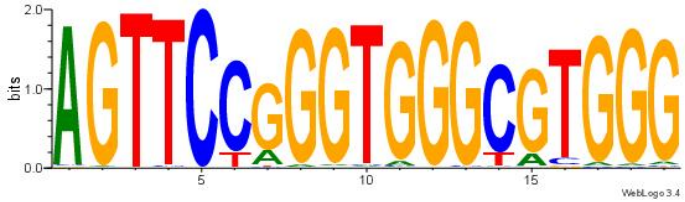

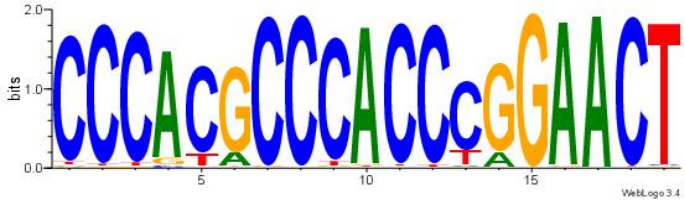

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.115749

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

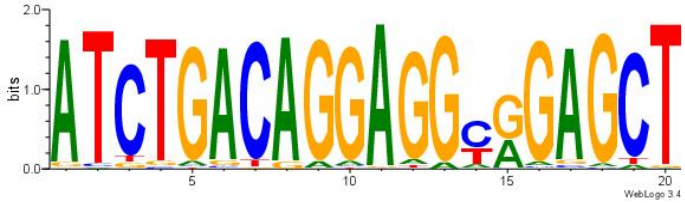

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

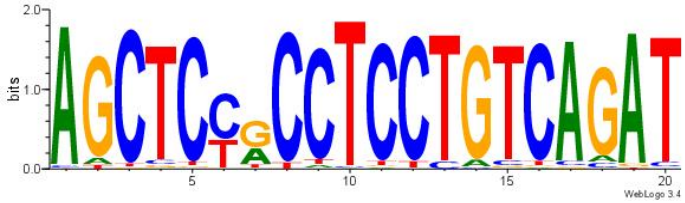

Dataset #:	1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.116616

Alignment:
GTACCTCAGWTGGAAATG
CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

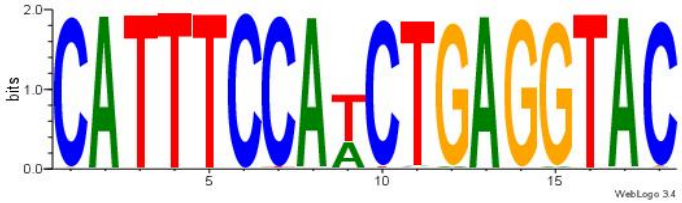

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

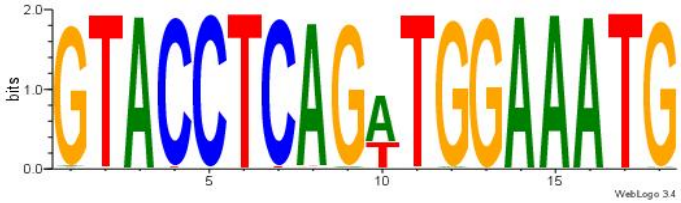

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.11671

Alignment:
GCTGCARTCTCGGCACTTT
CGCCCCGTCTGGGAAGTG-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

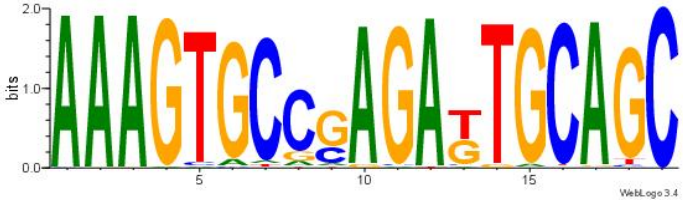

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

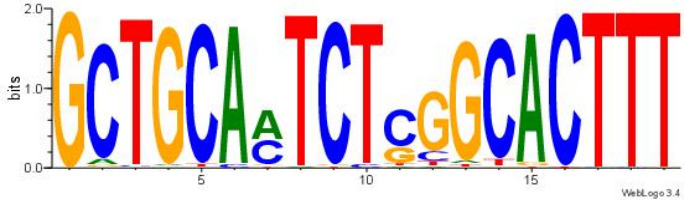

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.118916

Alignment:
AGGASCSTCYSWGCCMGGY
-CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

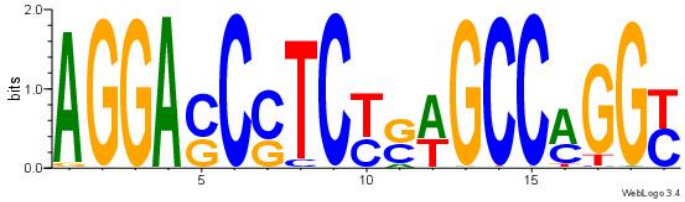

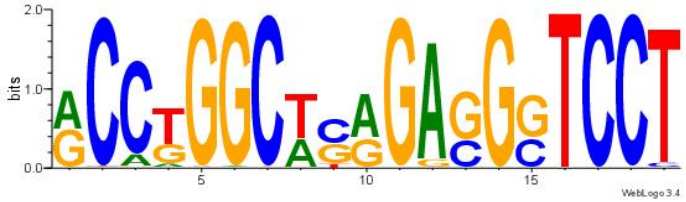

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.119205

Alignment:
ARCTCCTGKSCTCAAGKGAT
CGCCCCGTCTGGGAAGTG--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

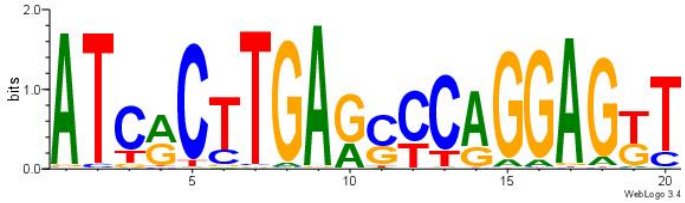

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

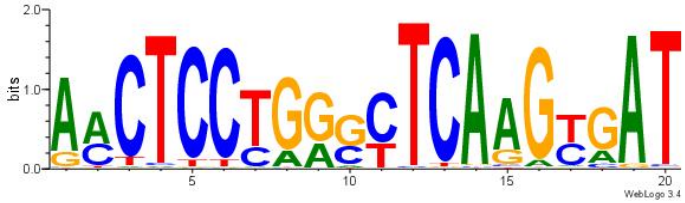

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.119489

Alignment:

```
GAATCCTGGGACAGCCTGT
CACTTCCCAGACGGGGCG-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

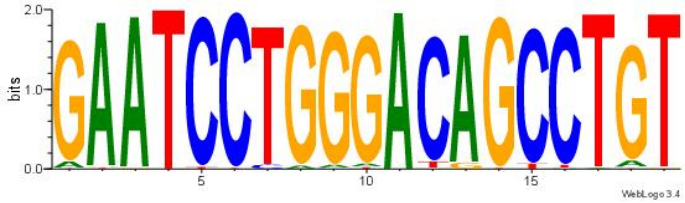

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

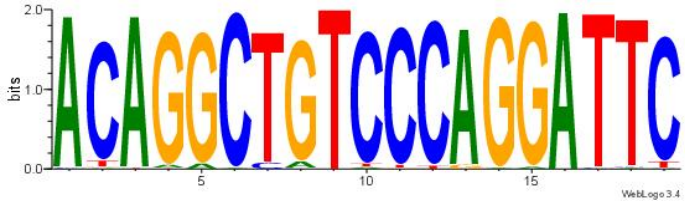

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.119894

Alignment:
GCTGGCCCGCAAGCGCCGCG
--CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

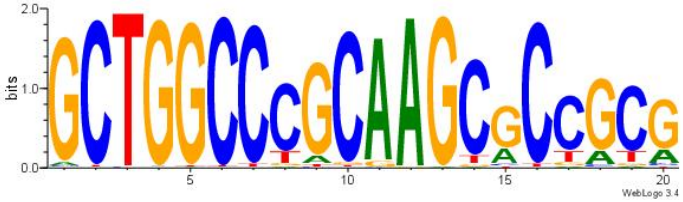

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

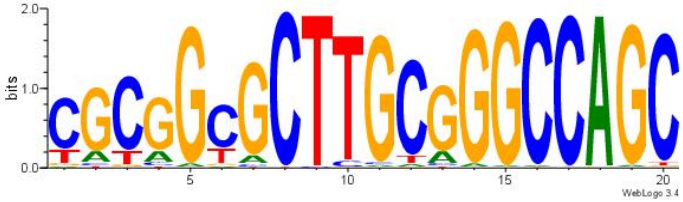

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.120855

Alignment:
TGGCTTCACCCAGTGGATCC
-CACTTCCCAGACGGGGCG-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

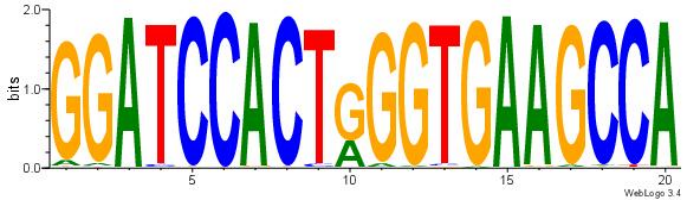

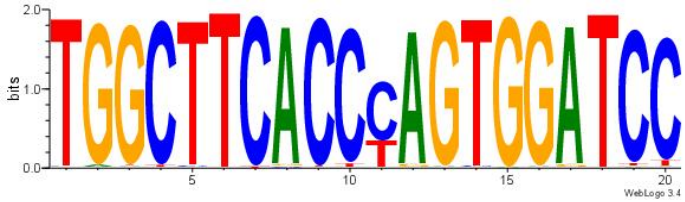

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.121327

Alignment:

```
GGATTTMKGACTTGCATGGG
--CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

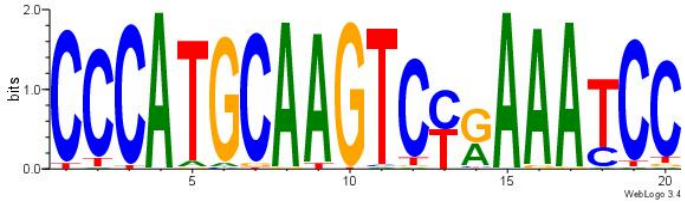

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

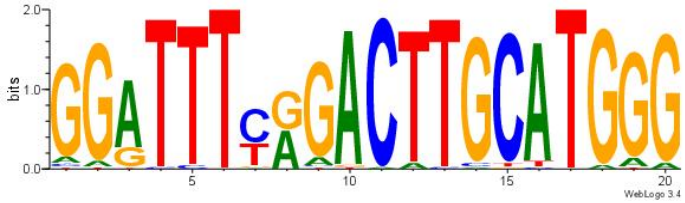

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.121769

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-CGCCCCGTCTGGGAAGTG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

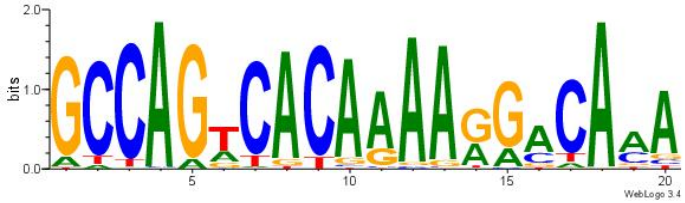

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

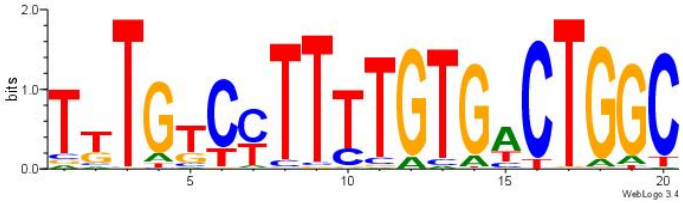

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.123581

Alignment:
CTGGGCTCCTGAGTCTGGTG
--CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

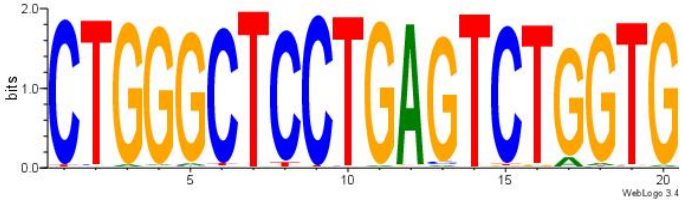

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

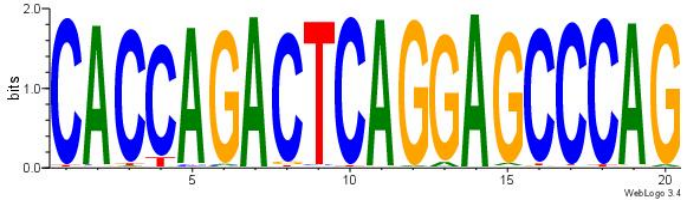

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.123799

Alignment:
CCTGCCATTGCYSAGGCTTG
--CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

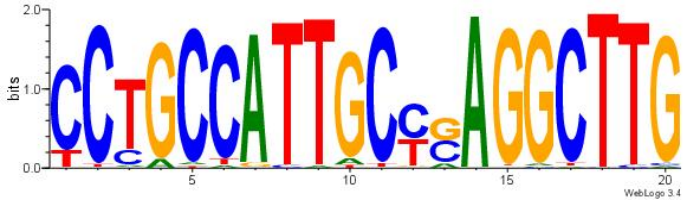

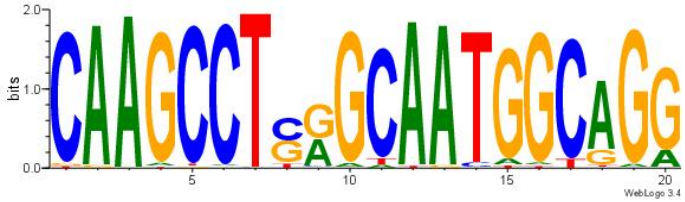

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.123947

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
CACTTCCCAGACGGGGCG--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

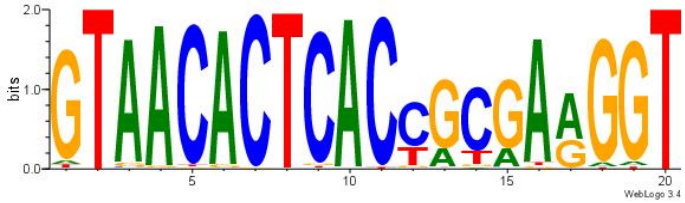

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

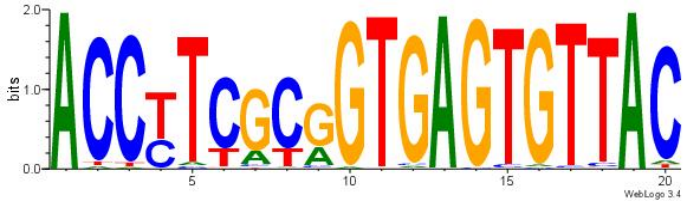

Dataset #:	1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.124

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

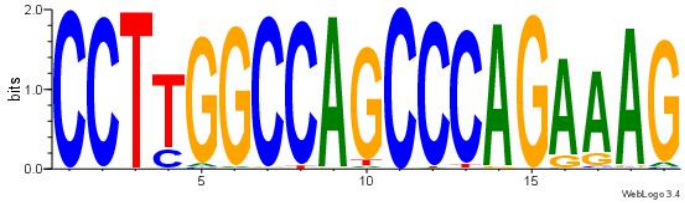

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

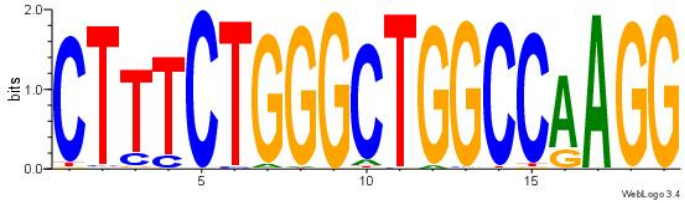

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.124461

Alignment:
GCCTCCTTGAGCTGTGGTGG
-CACTTCCCAGACGGGGCG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

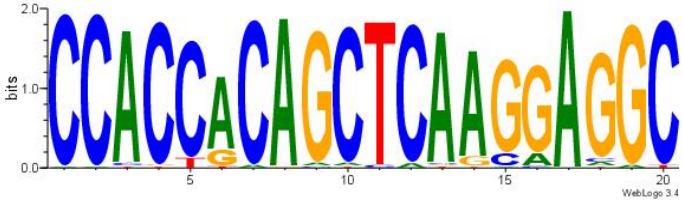

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

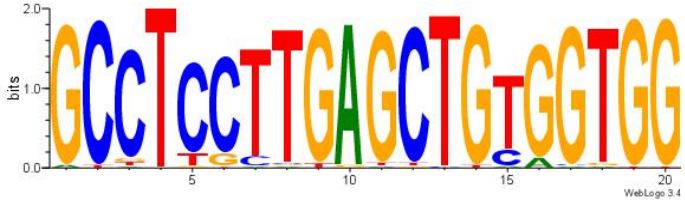

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.12502

Alignment:
CTGTTTGCCTGGGTATCA
CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

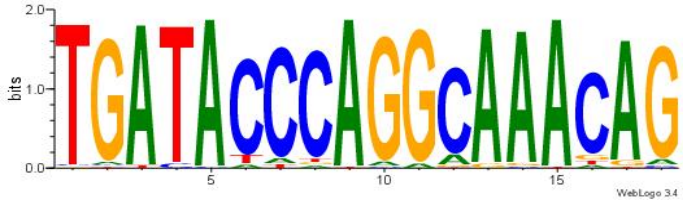

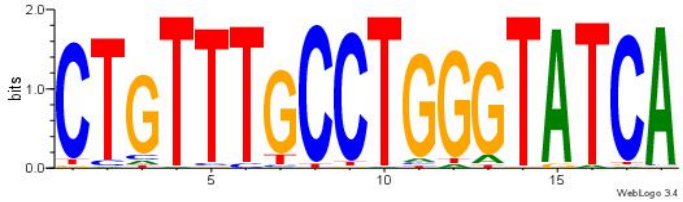

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.125057

Alignment:

```
CMCAGTTCACAATAGGGTT
CACTTCCCAGACGGGGCG-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

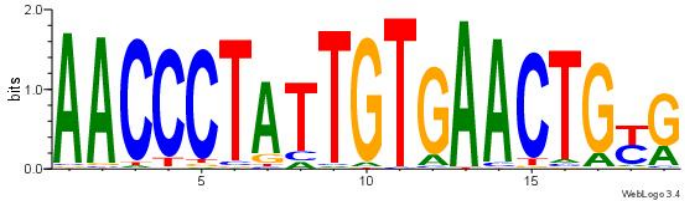

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

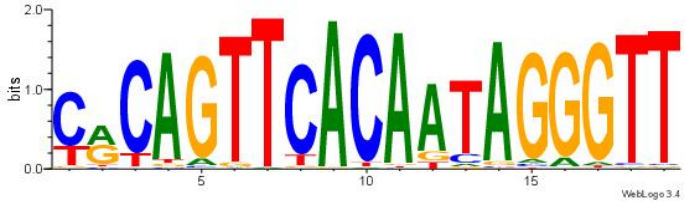

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.126214

Alignment:

```
AGTGACCCGATTTTCCAGGT
--CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

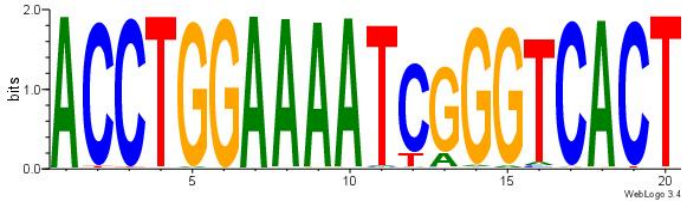

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

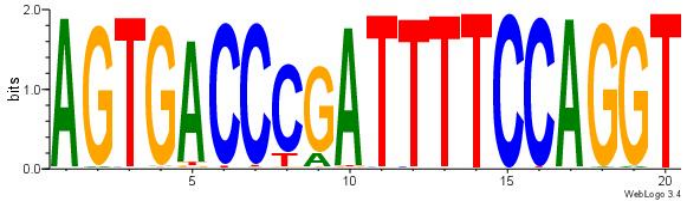

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.12913

Alignment:
CATTCTGGGGTCTGGAGGAY
CACTTCCCAGACGGGGCG--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

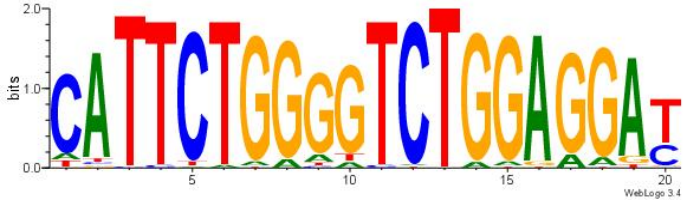

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

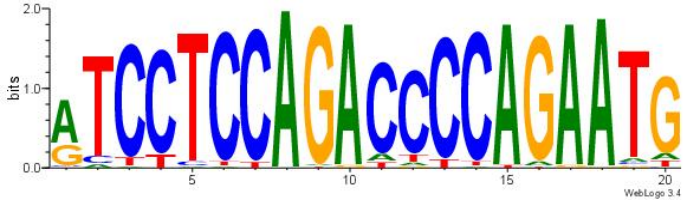

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.129514

Alignment:
CAACATGGATGRARCTGGAG
CGCCCCGTCTGGGAAGTG--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

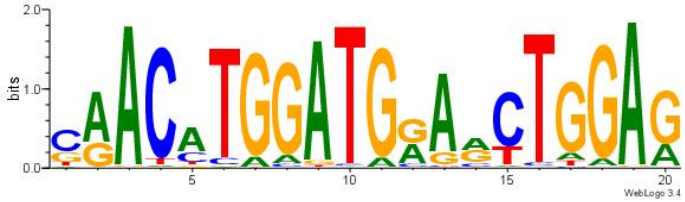

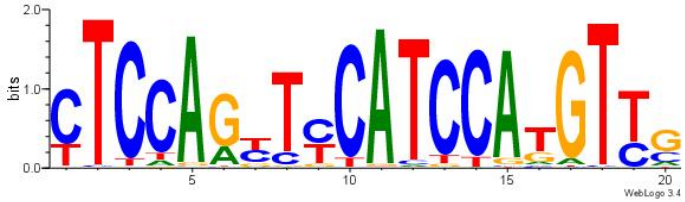

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.130447

Alignment:

```
GCGMGCGGGAACCGGGGCT
-CACTTCCCAGACGGGGCG
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

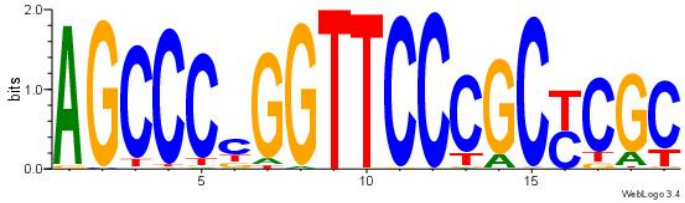

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

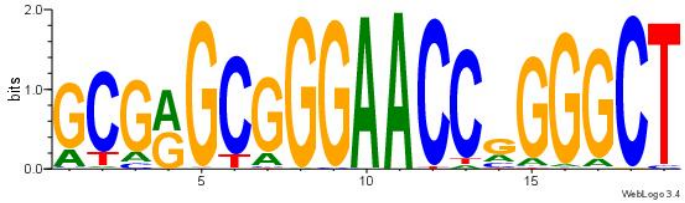

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.130907

Alignment:

```
CCCYAATACTGCGCTTTTC
CGCCCCGTCTGGGAAGTG-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

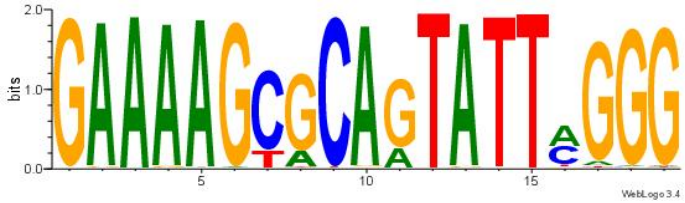

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

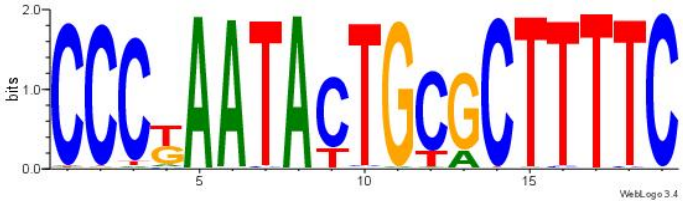

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.131525

Alignment:
AAGCAGGGCGAGGCATTGCC
--CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

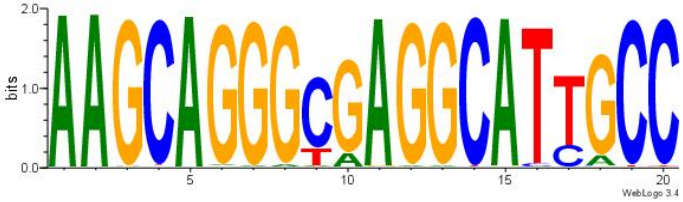

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

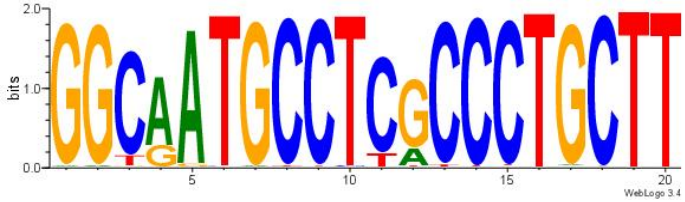

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.132087

Alignment:
TTCAMTCATGATTTGGCTCT
--CACTTCCCAGACGGGGCG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

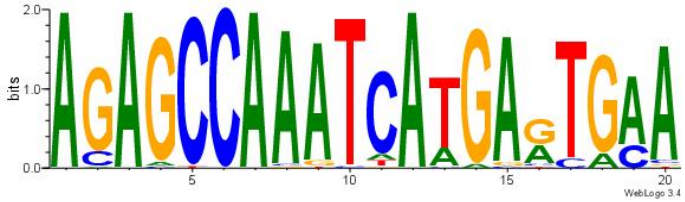

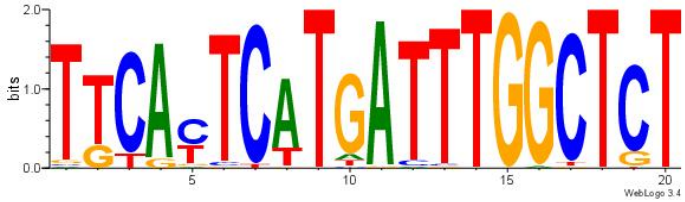

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.132761

Alignment:

GACATGAGCTGGCGCTTG
CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

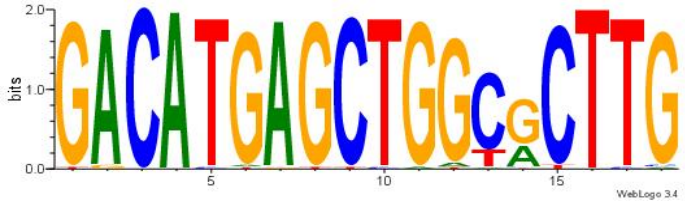

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

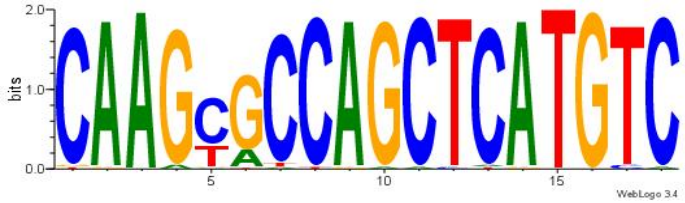

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.133395

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
--CACTTCCCAGACGGGGCG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

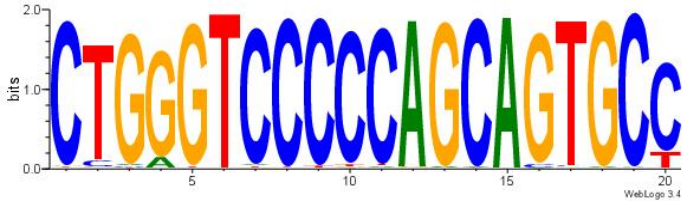

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

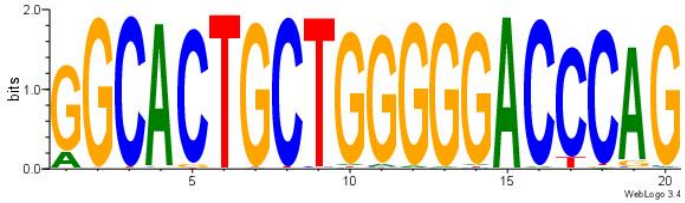

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.134048

Alignment:
TTGGTAGGATCCGTGATGCC
--CGCCCCGTCTGGGAAGTG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

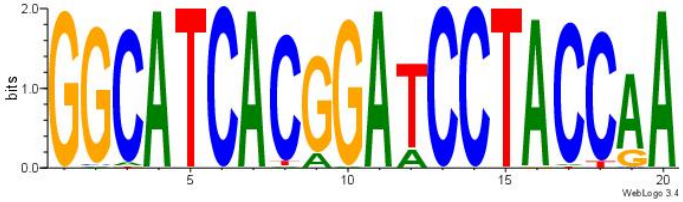

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

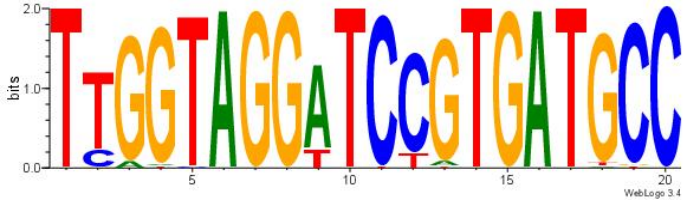

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.134092

Alignment:
ACTTTGGACTGTGGACTTTT
CGCCCCGTCTGGGAAGTG--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

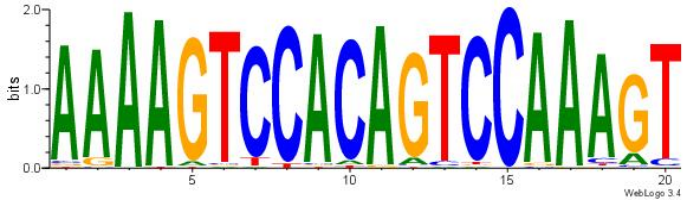

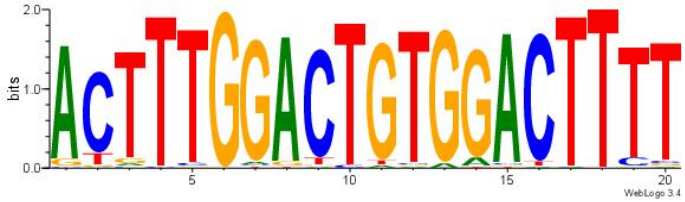

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.134145

Alignment:

```
TCCAAATGGGAGAAATTGGC
--CACTTCCCAGACGGGGCG
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

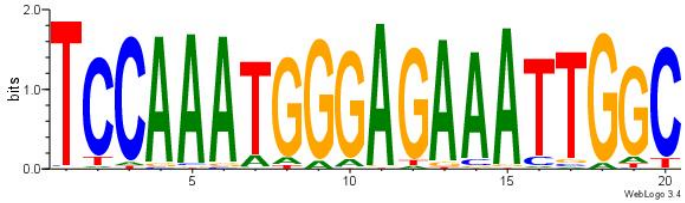

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

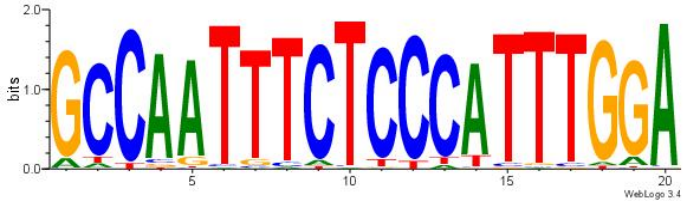

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.134646

Alignment:

```
ATGGCCTATGACYGSTTTG
-CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

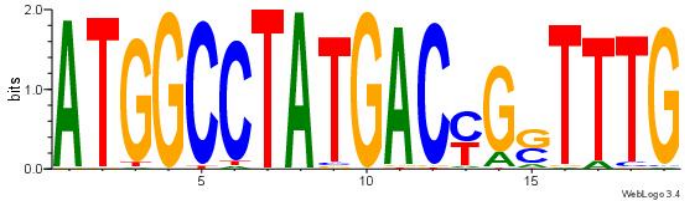

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

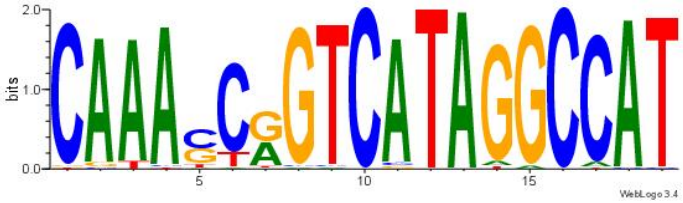

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.13501

Alignment:
GTTTAACCATTGAGGGCCAG
CACTTCCCAGACGGGGCG--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

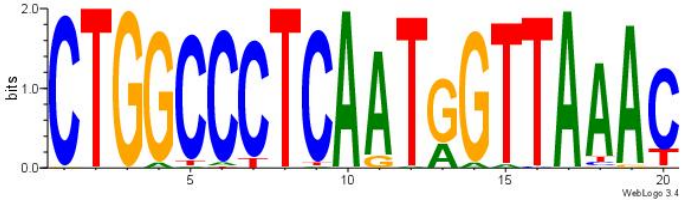

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

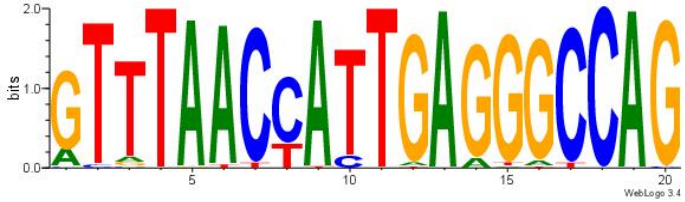

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.135576

Alignment:
GGAGGTGTGGAGGGAGAGGC
CGCCCCGTCTGGGAAGTG--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

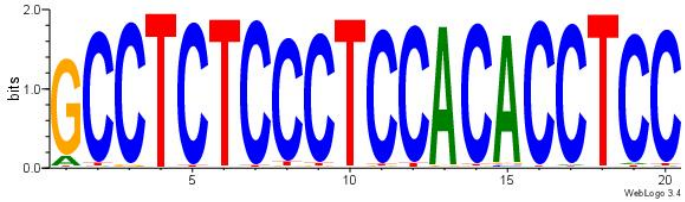

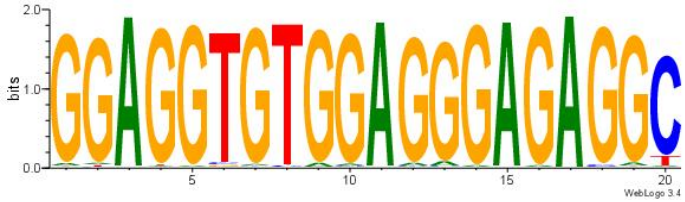

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.136198

Alignment:

```
ATAGGAATGCTTGTGATTTT
--CGCCCCGTCTGGGAAGTG
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

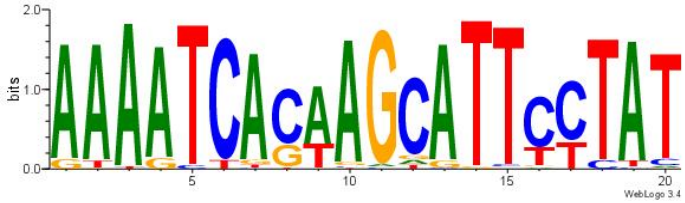

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

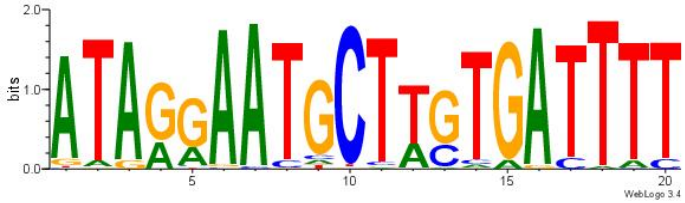

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.136217

Alignment:

```
AAGTCCAAGATCAAGGTGYY
CACTTCCCAGACGGGGCG--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

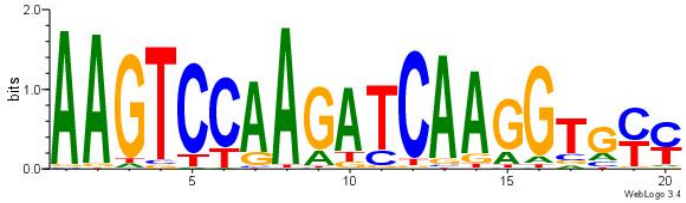

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

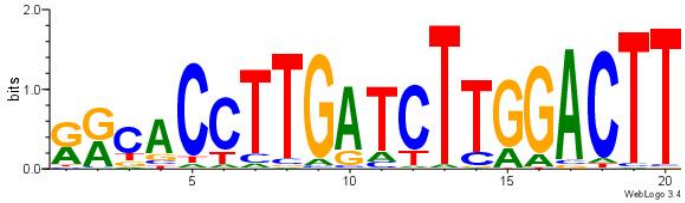

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.136275

Alignment:
CTATTGTGAATARTGCTGC
CACTTCCCAGACGGGGCG-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

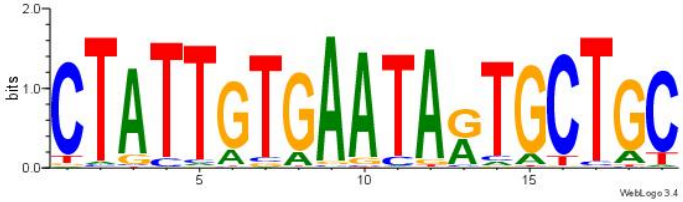

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

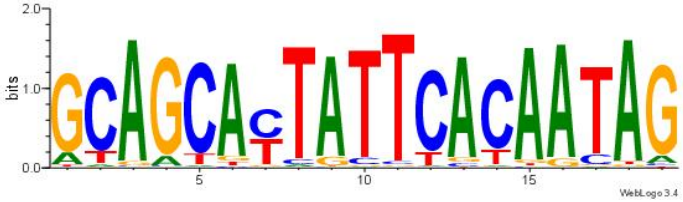

Dataset #: 1 Motif ID: 28 Motif name: Motif 28

Original motif Consensus sequence: GTCACCCCATT

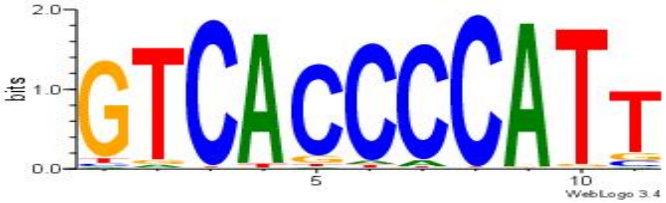

Reverse complement motif Consensus sequence: AATGGGGTGAC

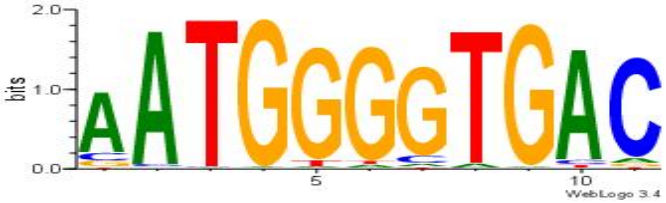

Best Matches for Motif ID 28 (Highest to Lowest)

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0423623

Alignment:

```
ATACAATGGGGGTACAGRC
----AATGGGGTGAC----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

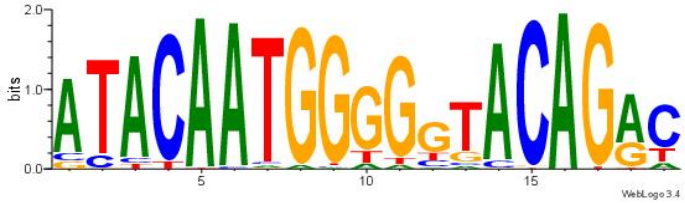

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

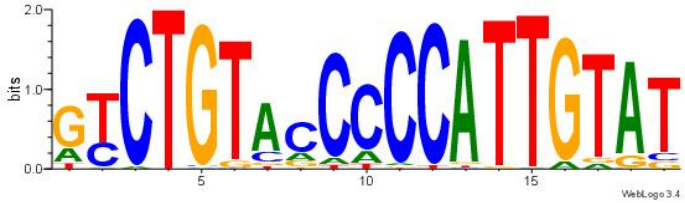

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0486677

Alignment:

```
ACCTGGAAAATCGGGTCACT
-AATGGGGTGAC--------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

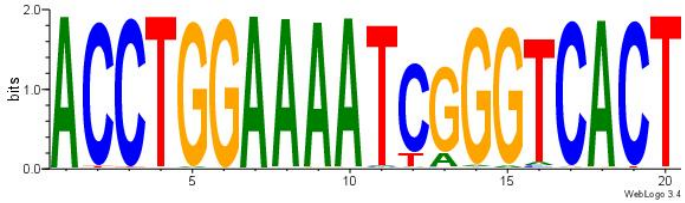

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

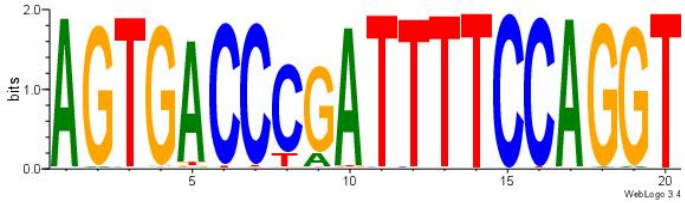

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0491797

Alignment:

```
AGTTGTAATTGGGAGACTT
------AATGGGGTGAC--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

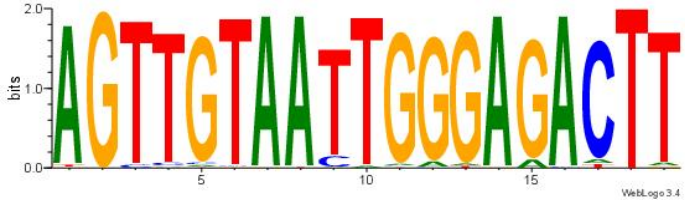

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

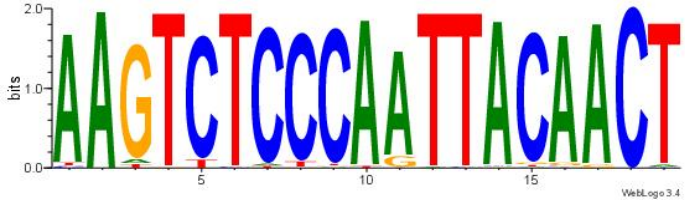

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0587499

Alignment:

```
CATTTGGGAGCCCATTGA
-----GTCACCCCATT--
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

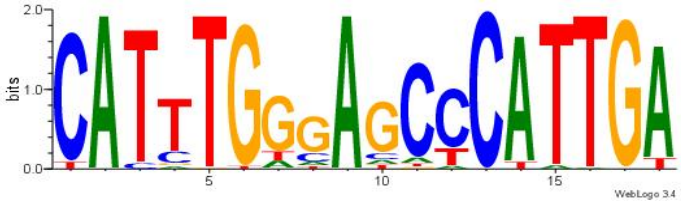

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

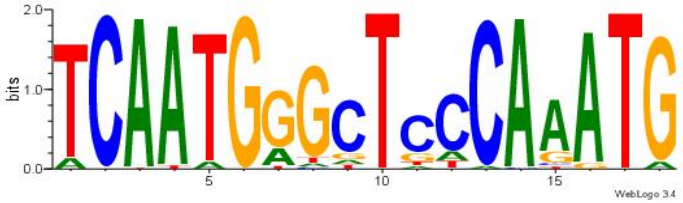

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10

Number of overlap: 11
Similarity score: 0.0773836

Alignment:
TCCCTCCCGGACGGGGYGGC
---------AATGGGGTGAC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

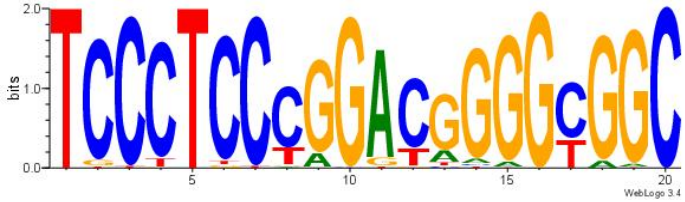

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

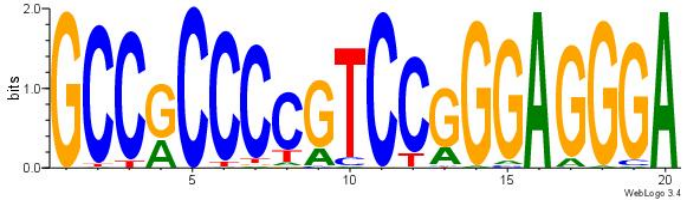

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0777868

Alignment:
CTGACTGGGAGACACCTCCC
--AATGGGGTGAC-------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

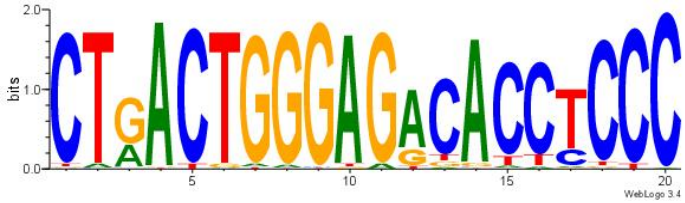

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

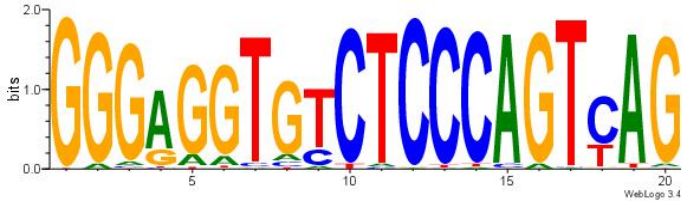

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.078138

Alignment:

```
GCAGGAGGTGAG
-AATGGGGTGAC
```

Original motif Consensus sequence: CTCACCTCCTGC

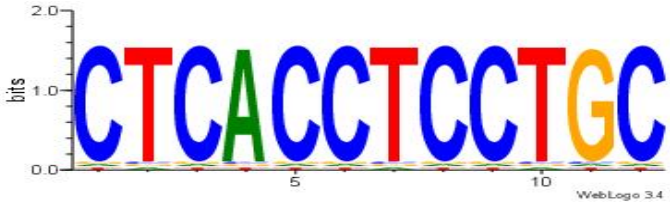

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

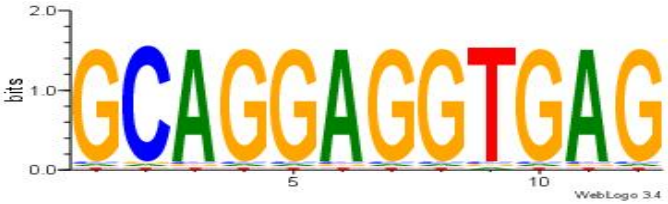

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0799004

Alignment:

```
GACATGAGCTGGCGCTTG
--AATGGGGTGAC-----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

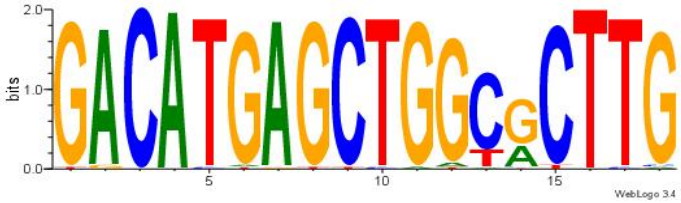

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

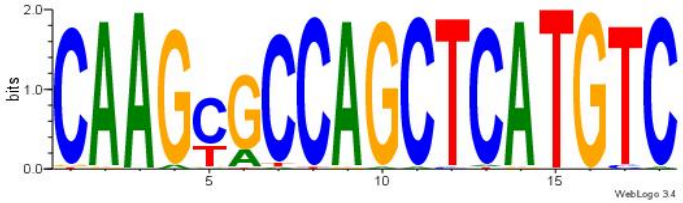

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 11
Similarity score: 0.0799266

Alignment:
CTTTCTGGGCTGGCCAAGG
---AATGGGGTGAC-----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

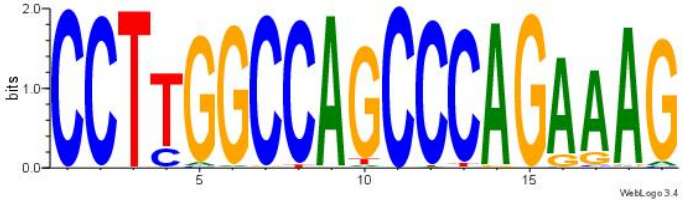

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

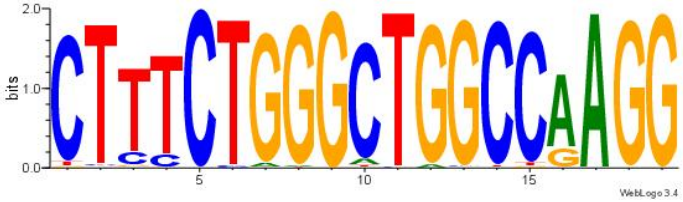

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0821215

Alignment:
CCTTTGACTCCATGTC
---GTCACCCCATT--

Original motif Consensus sequence: GACATGGAGTCAAAGG

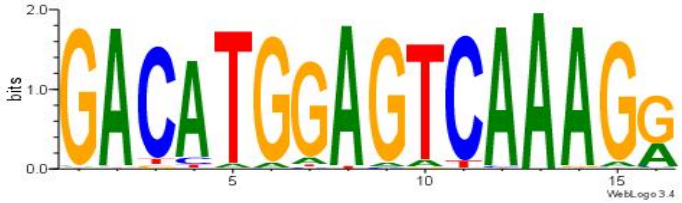

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

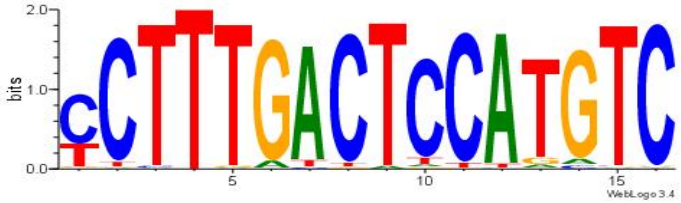

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0824557

Alignment:

```
AAGCTCGAACTGGGTGGAGC
--------AATGGGGTGAC-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

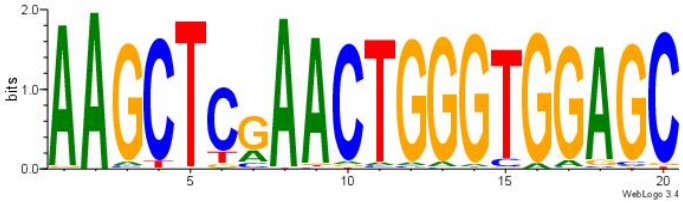

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

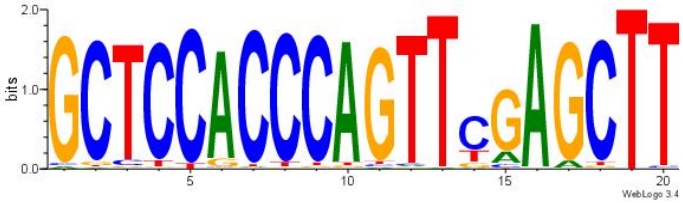

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.082785

Alignment:

```
GTCATCTCCTATG
GTCACCCCATT--
```

Original motif Consensus sequence: CATAGGAGATGAC

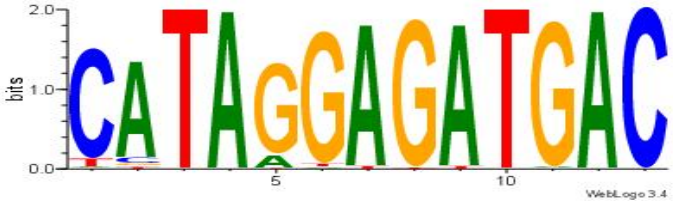

Reverse complement motif Consensus sequence: GTCATCTCCTATG

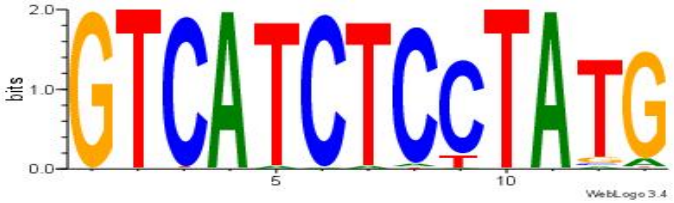

Dataset #:	1
Motif ID:	351
Motif name:	Motif 351
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0830695

Alignment:
CCCACCCYAAT
GTCACCCCATT

Original motif Consensus sequence: ATTMGGGTGGG

Reverse complement motif Consensus sequence: CCCACCCYAAT

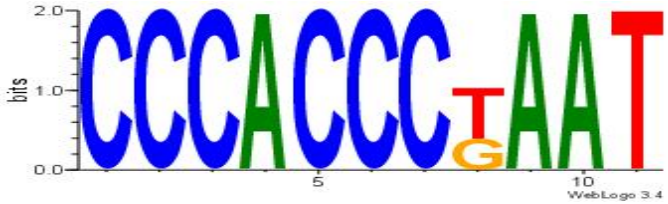

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0845396

Alignment:
ACTCCCTAGTGAGATGAACC
-------AATGGGGTGAC--

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

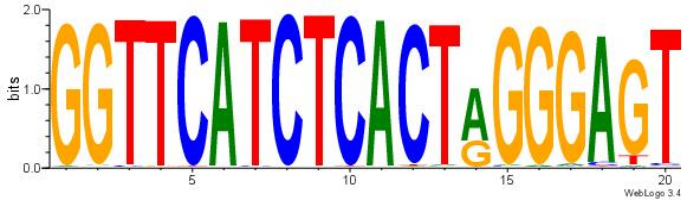

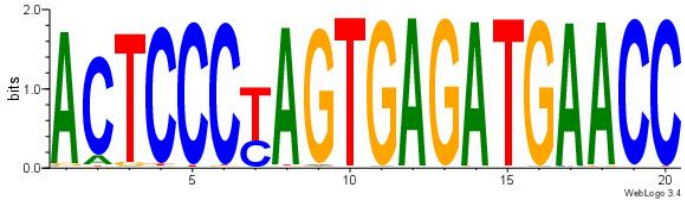

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.085044

Alignment:

```
AATGAGTTAAGACTTTG
AATGGGGTGAC------
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

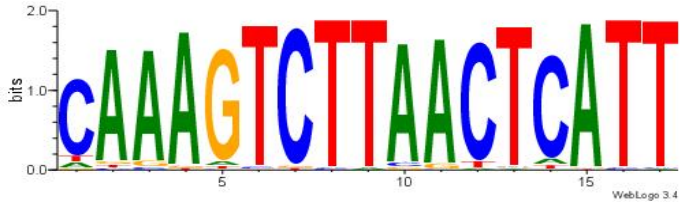

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0855718

Alignment:

```
GCCAATTTCTCCCATTTGGA
------GTCACCCCATT---
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

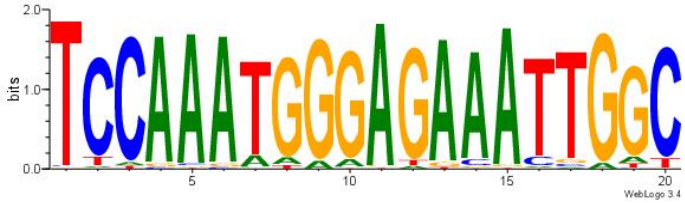

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

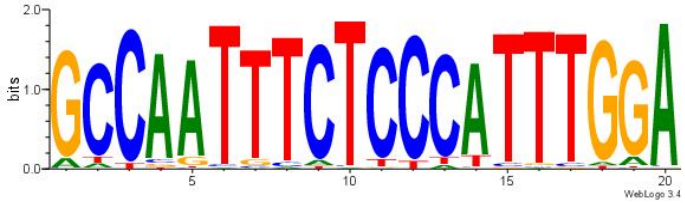

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0860717

Alignment:
GGTTCAAGCGATT
--GTCACCCCATT

Original motif Consensus sequence: AATCGCTTGAACC

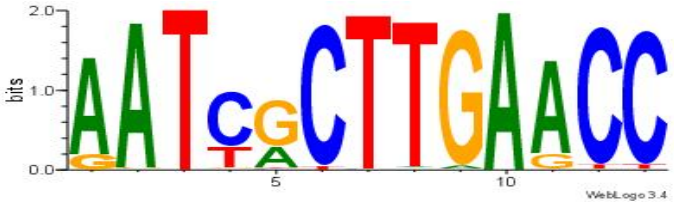

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0864188

Alignment:
TTTGTACCCATTA
-GTCACCCCATT-

Original motif Consensus sequence: TAATGGGTACAAA

Reverse complement motif Consensus sequence: TTTGTACCCATTA

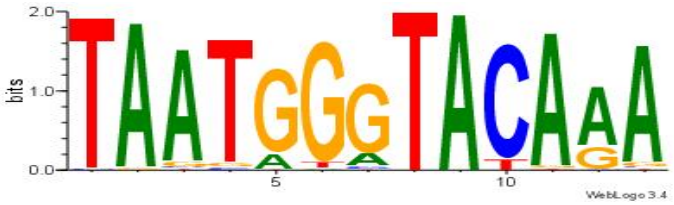

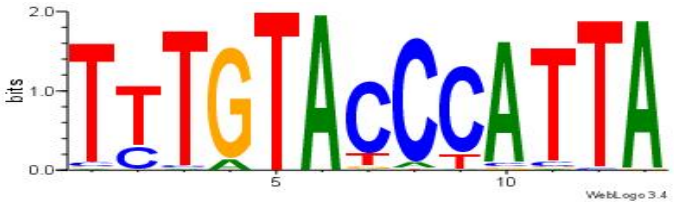

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0865412

Alignment:

```
GGGAGGAAGGGGACAC
-----AATGGGGTGAC
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

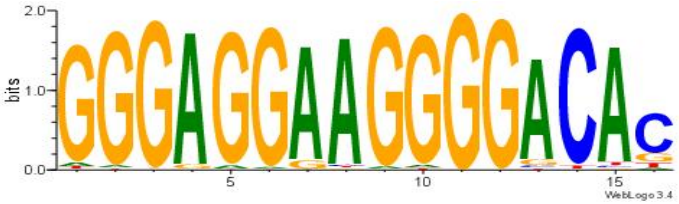

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

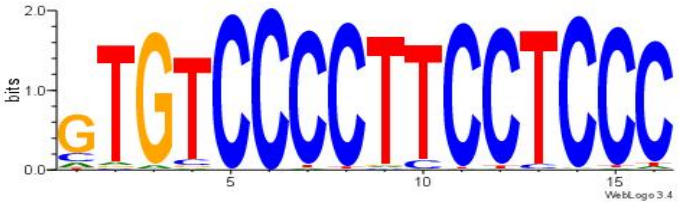

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0872523

Alignment:

```
TGGCTTCACCCAGTGGATCC
----GTCACCCCATT-----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

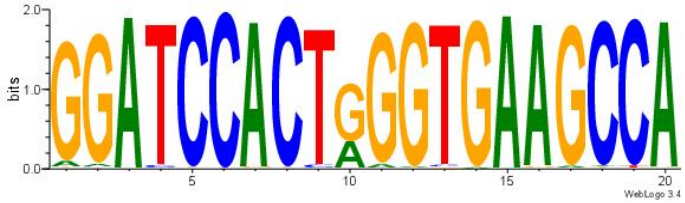

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

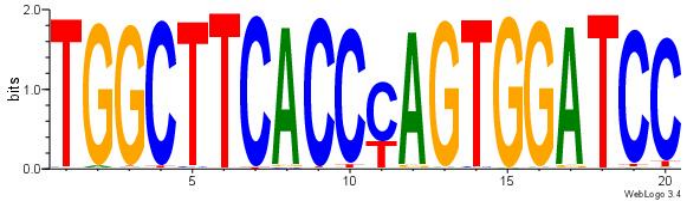

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0873799

Alignment:
TAATAAGGGTGTGGG
----AATGGGGTGAC

Original motif Consensus sequence: CCCACACCCTTATTA

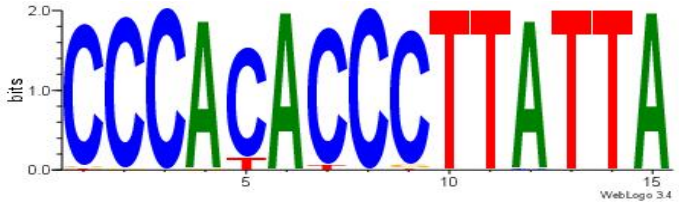

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

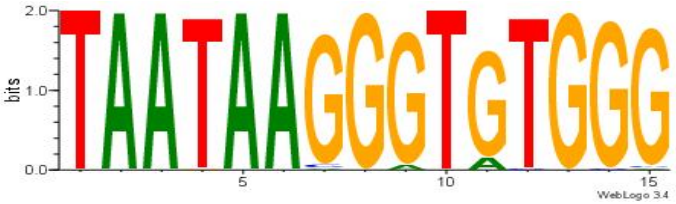

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0881803

Alignment:
TGATGGGTGCACCAAA
-AATGGGGTGAC----

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

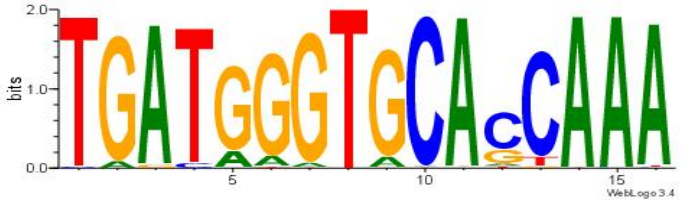

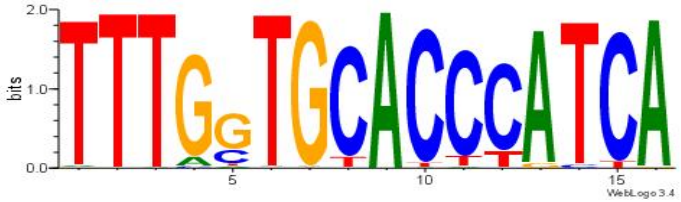

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0887835

Alignment:

```
GTKTMTATMTACCACATTTT
-------GTCACCCCATT--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

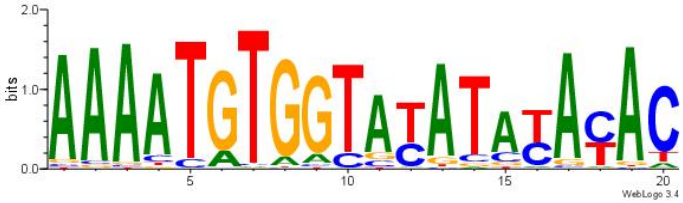

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

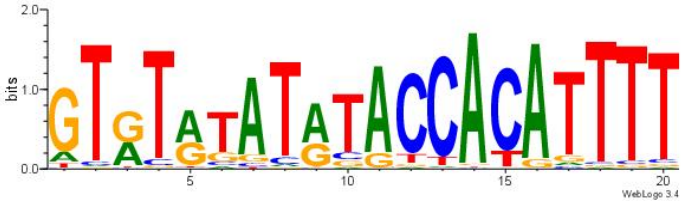

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.088894

Alignment:

```
ACAGGCTGTCCCAGGATTC
-------GTCACCCCATT-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

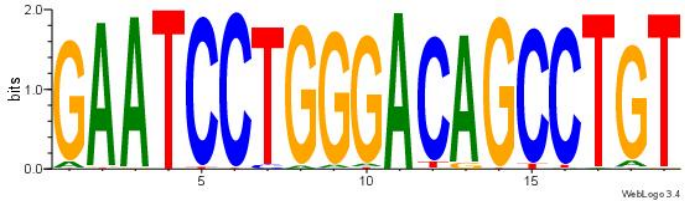

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

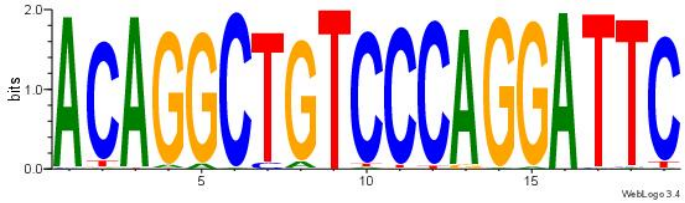

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0904081

Alignment:
AAATGGAATCAT
-AATGGGGTGAC

Original motif Consensus sequence: AAATGGAATCAT

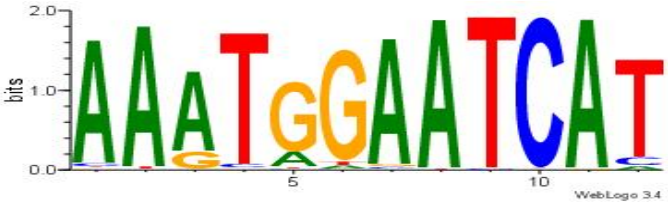

Reverse complement motif Consensus sequence: ATGATTCCATTT

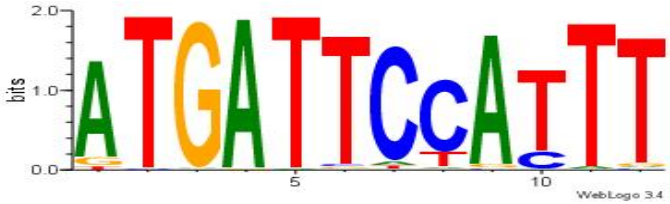

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0907289

Alignment:
AAGACGGGTGATTTCTG
-AATGGGGTGAC-----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

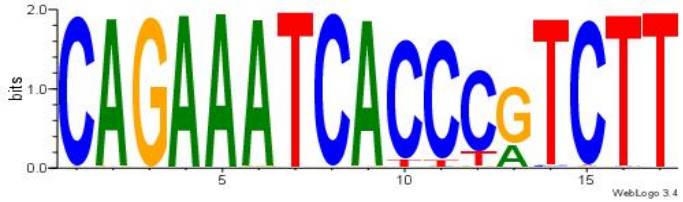

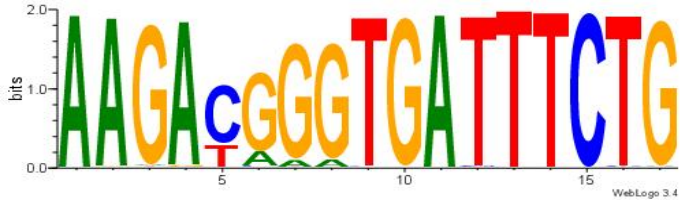

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.090822

Alignment:

```
TCKMGCCACTGCACTCCAGC
-----GTCACCCCATT----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

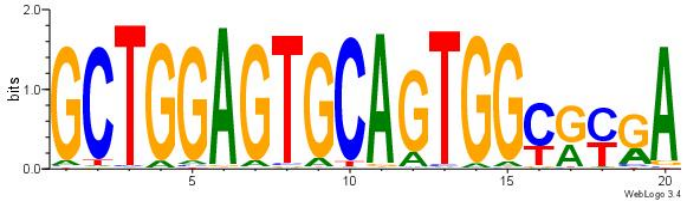

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

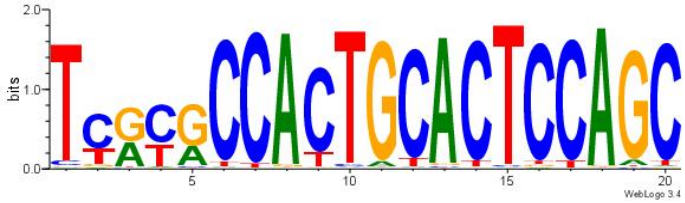

Dataset #:	1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0913293

Alignment:

```
GGCACTCCCTAGTG
GTCACCCCATT---
```

Original motif Consensus sequence: CACTAGGGAGTGCC

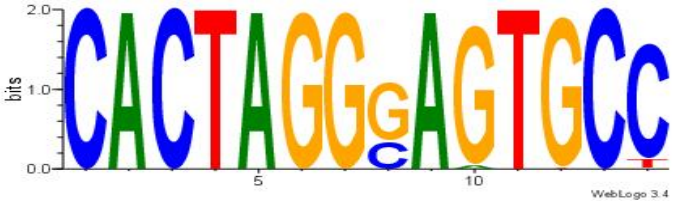

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

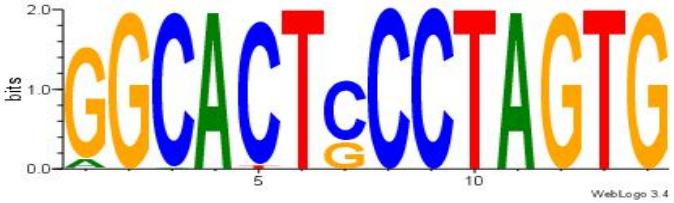

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.091539

Alignment:
ATGATCCAGCAATYCCACTH
--------GTCACCCCATT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

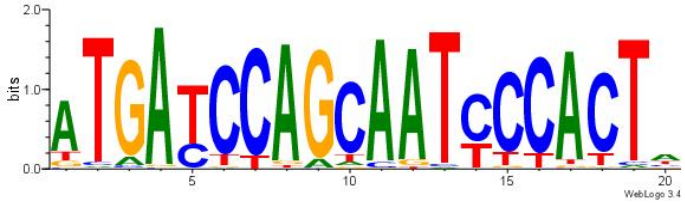

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

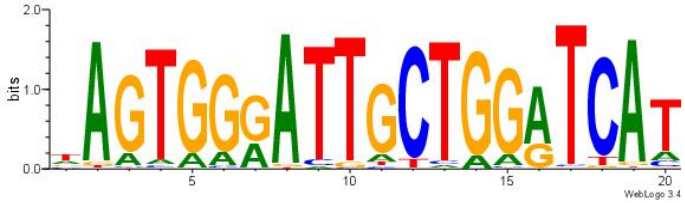

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0918921

Alignment:
GTAGCTGGGAYTACA
---AATGGGGTGAC-

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

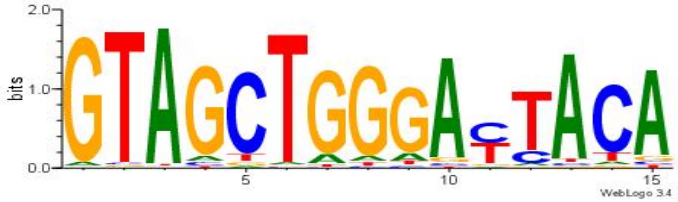

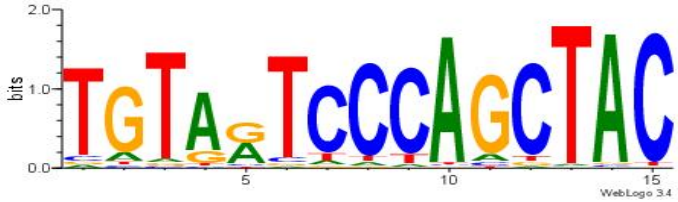

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0922747

Alignment:

```
AAAMAMMKMATGTTCTCACT
--------AATGGGGTGAC-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

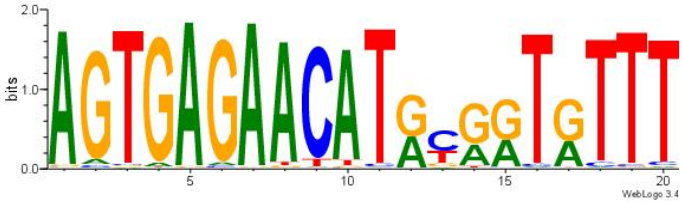

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

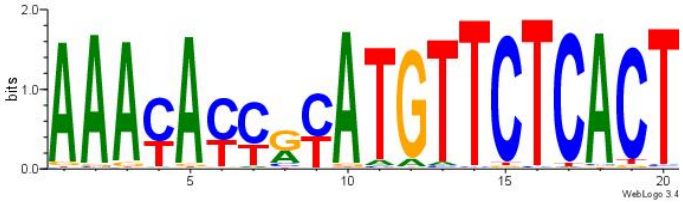

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0926801

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GTCACCCCATT---------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

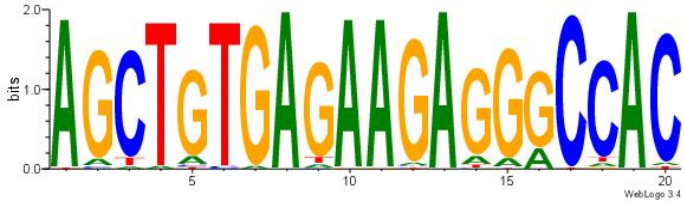

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

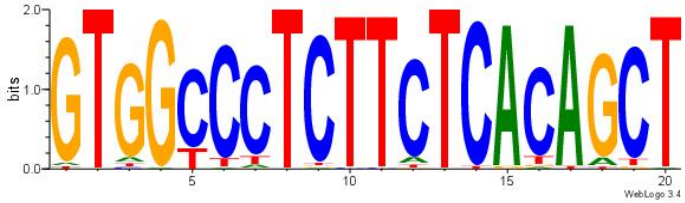

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0930347

Alignment:
GGGASCACATGG
GTCACCCCATT-

Original motif Consensus sequence: CCATGTGSTCCC

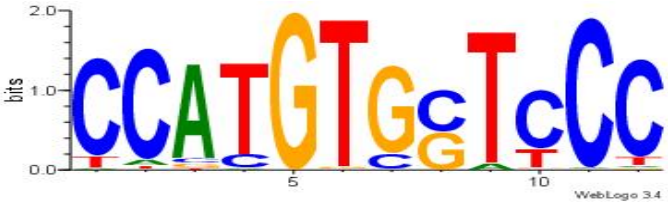

Reverse complement motif Consensus sequence: GGGASCACATGG

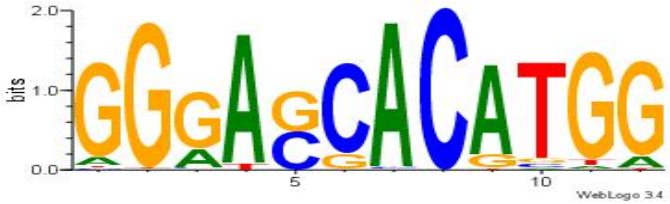

Dataset #: 1
Motif ID: 4
Motif name: Motif 4
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0940136

Alignment:
GCTGGGATTACAGG
---AATGGGGTGAC

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

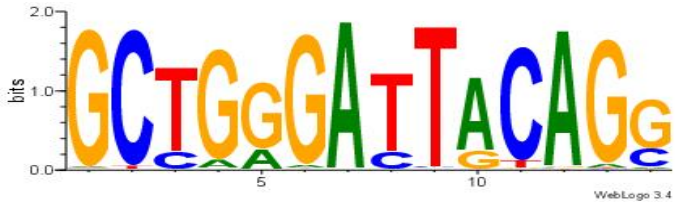

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0940696

Alignment:

```
GTTTAACCATTGAGGGCCAG
GTCACCCCATT---------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

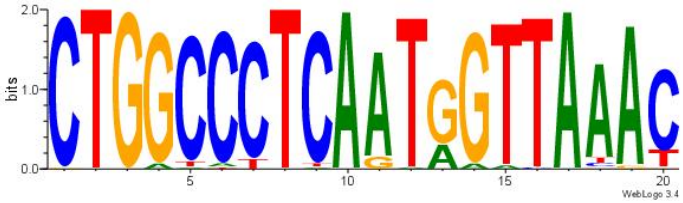

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

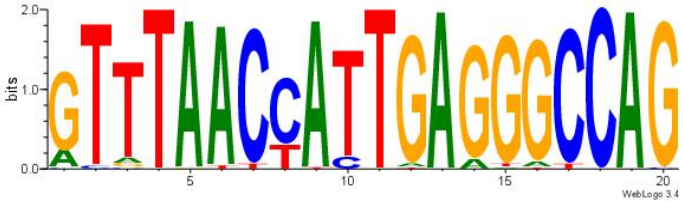

Dataset #: 1

Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0942179

Alignment:

```
RRCCGCTCCATG
-GTCACCCCATT
```

Original motif Consensus sequence: CATGGAGCGGKK

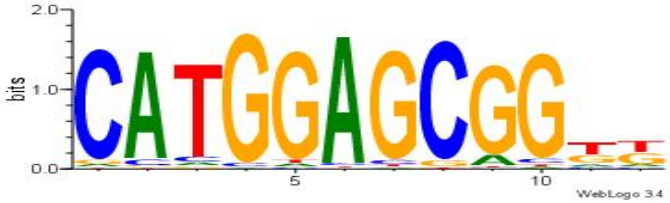

Reverse complement motif Consensus sequence: RRCCGCTCCATG

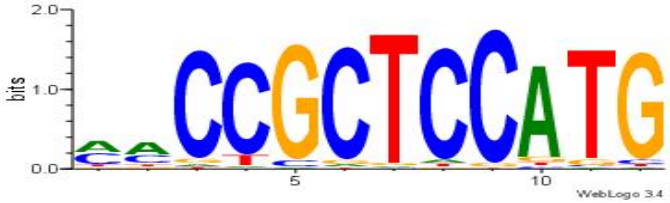

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0947963

Alignment:
TYTGTCMTTTTGTGACTGGC
-----AATGGGGTGAC----

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

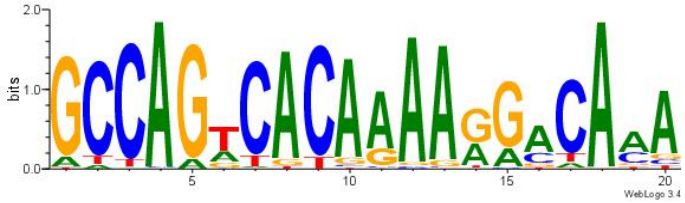

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

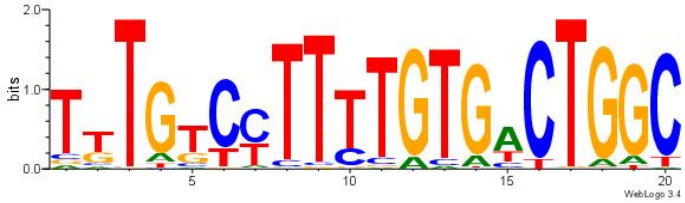

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0951808

Alignment:
MGTGTGATGTCTCCCCC
AATGGGGTGAC------

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence:
MGTGTGATGTCTCCCCC

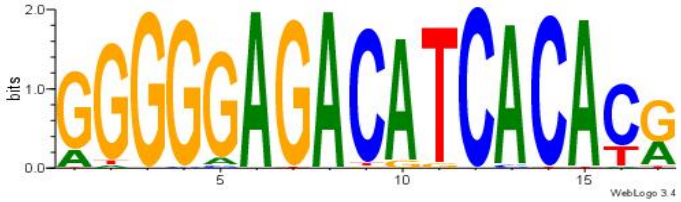

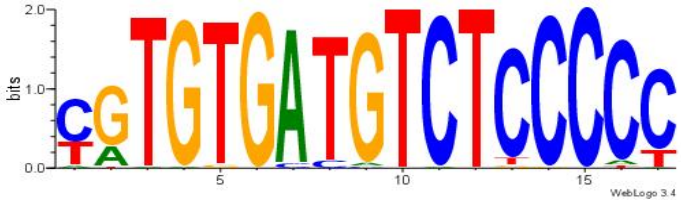

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0959447

Alignment:

```
ACAGAGTGAGACTCT
-AATGGGGTGAC---
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

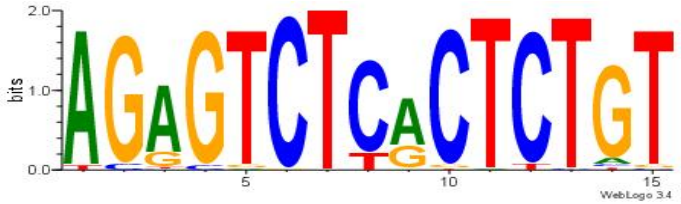

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

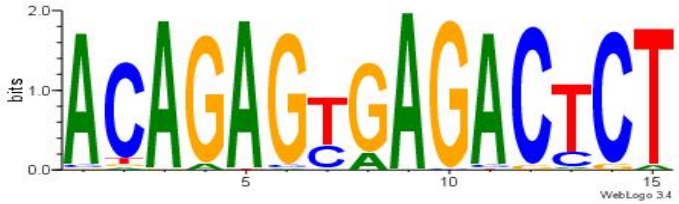

Dataset #:	1
Motif ID:	50

Motif name:	Motif 50
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0962509

Alignment:

```
GATGTGAGGGC
AATGGGGTGAC
```

Original motif Consensus sequence: GATGTGAGGGC

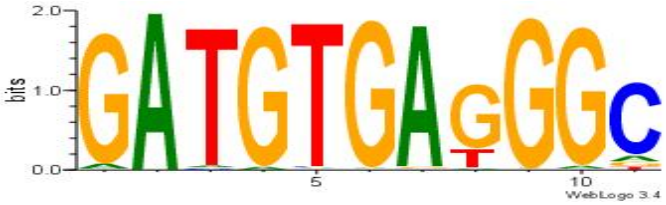

Reverse complement motif Consensus sequence: GCCCTCACATC

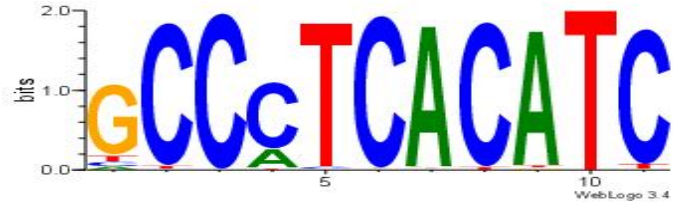

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0963243

Alignment:
ACTCAGCCCRCCTGCACCC
-GTCACCCCATT-------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

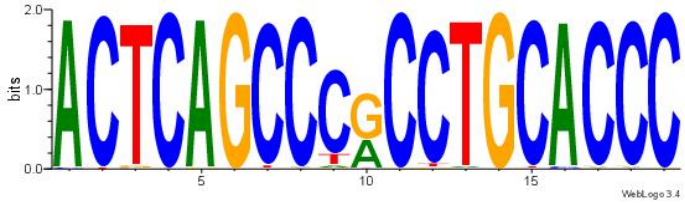

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

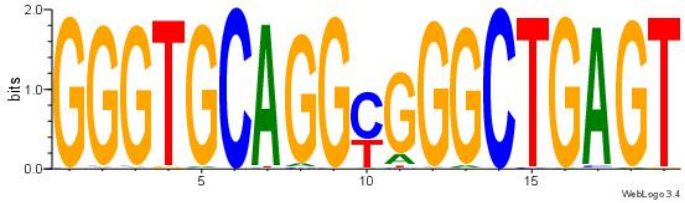

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0970149

Alignment:
GCCGTTTKTTAAGCCCGTY
--------GTCACCCCATT

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

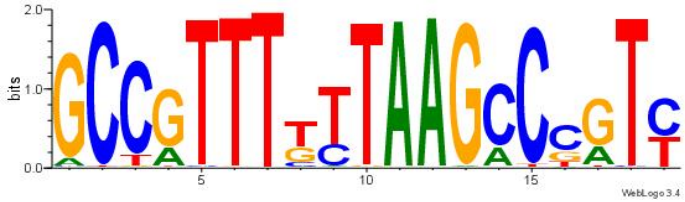

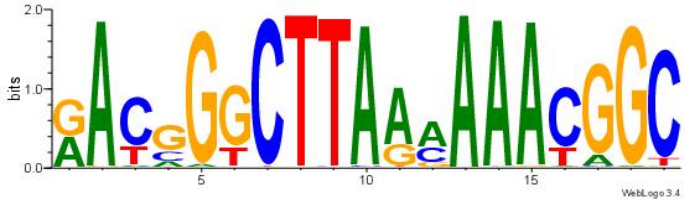

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0974887

Alignment:

```
ATGTAACCAAAYACCACCTG
--GTCACCCCATT-------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

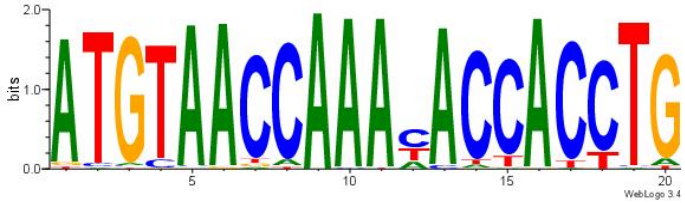

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

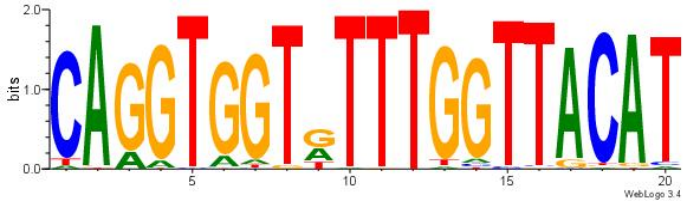

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.097778

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
---GTCACCCCATT------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

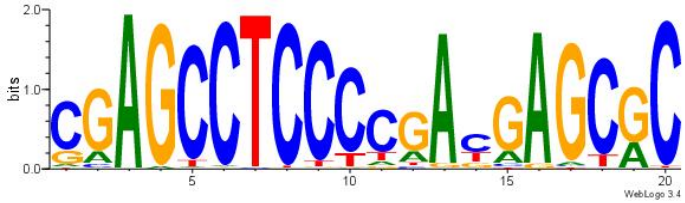

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

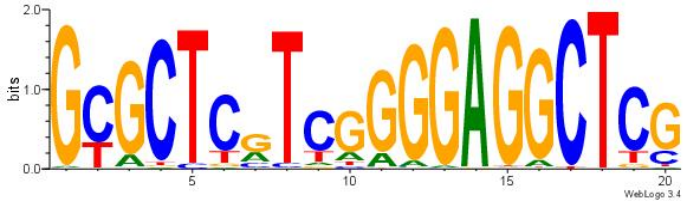

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0990888

Alignment:
TGGATGGATGGATGGAT
--AATGGGGTGAC----

Original motif Consensus sequence: ATCCATCCATCCATCCA

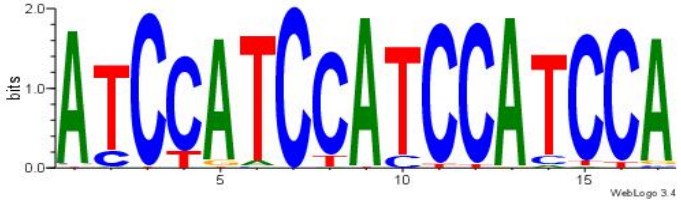

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0991082

Alignment:
GCCCTCACCAGAAGC
---GTCACCCCATT-

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

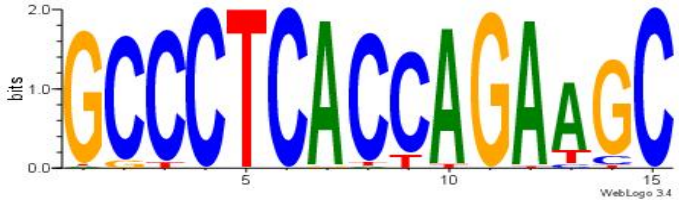

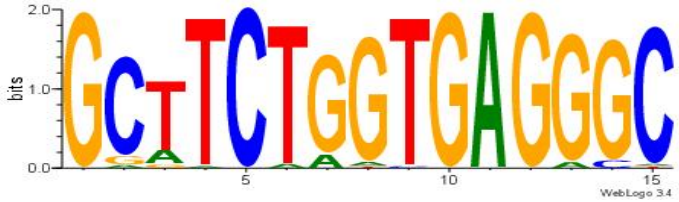

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0992013

Alignment:

```
GCTGCARTCTCGGCACTTT
------GTCACCCCATT--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

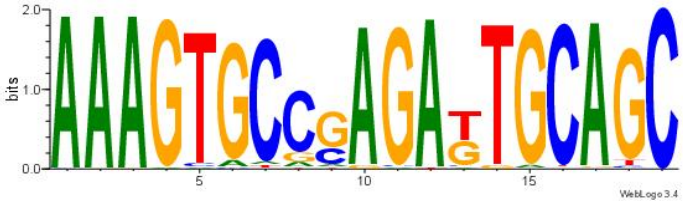

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

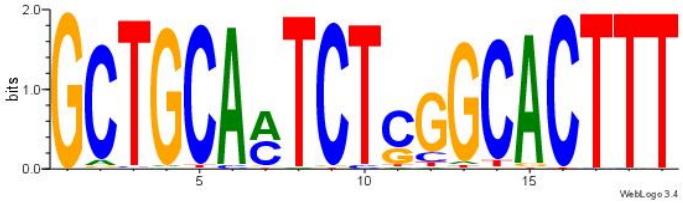

Dataset #:	1

Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0996151

Alignment:

```
CACTGCACTCCAGC
---GTCACCCCATT
```

Original motif Consensus sequence: CACTGCACTCCAGC

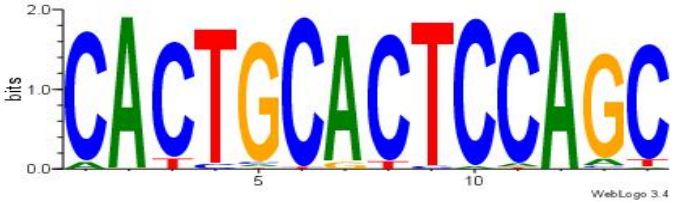

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

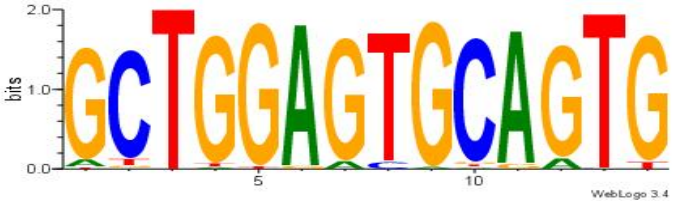

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0998077

Alignment:
CTTGGGTGGTCGATGGGAC
AATGGGGTGAC--------

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

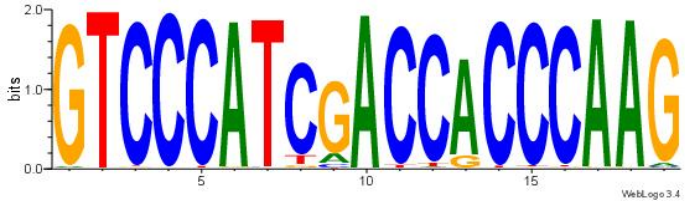

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

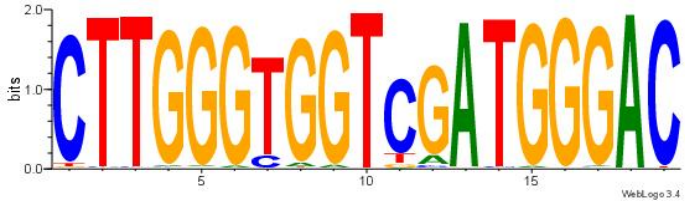

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0998217

Alignment:
ATTGATMKCCAGGGTTGATT
--------AATGGGGTGAC-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

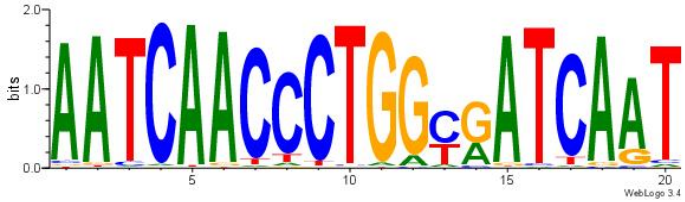

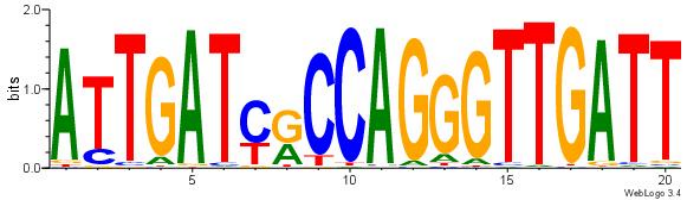

Dataset #: 1 **Motif ID: 29** **Motif name: Motif 29**

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

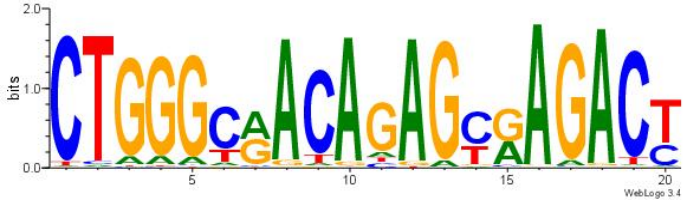

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

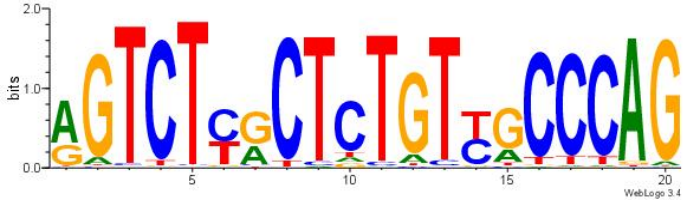

Best Matches for Motif ID 29 (Highest to Lowest)

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0944011

Alignment:

TCTCTCTCTCTCTCTCTCTC
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

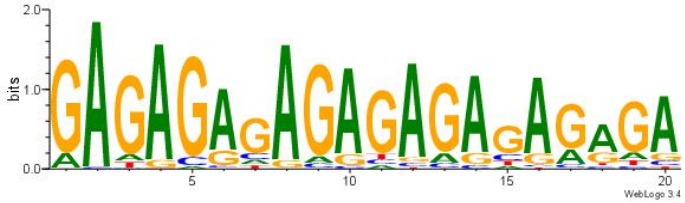

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

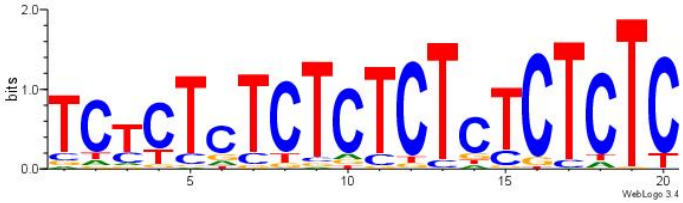

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.100789

Alignment:
CTGGGCTCCTGAGTCTGGTG
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

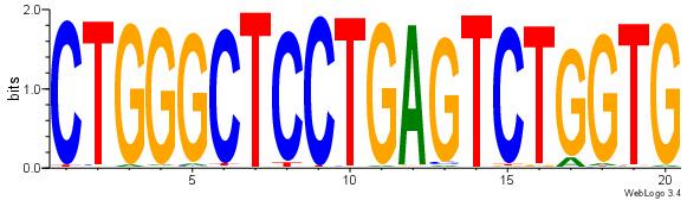

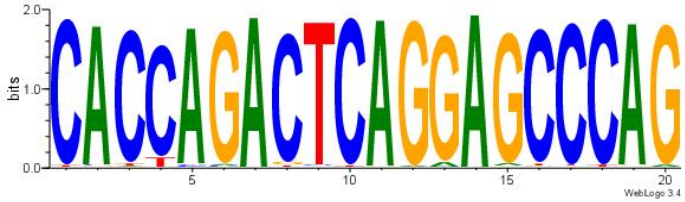

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.103081

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

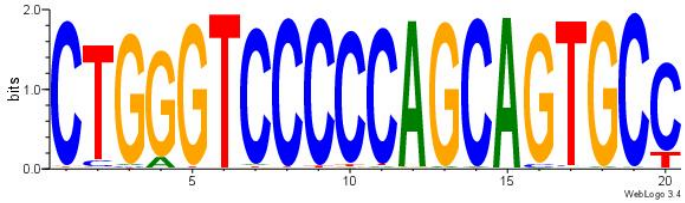

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

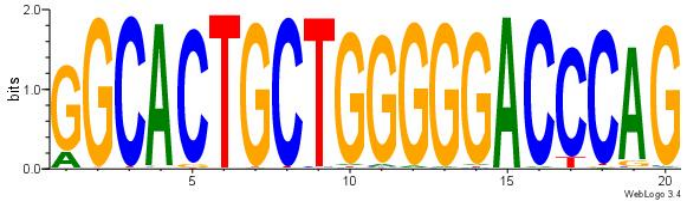

Dataset #:	1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.108553

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

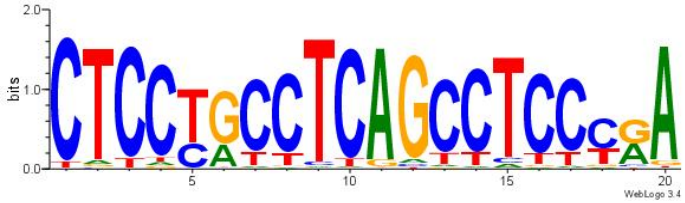

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

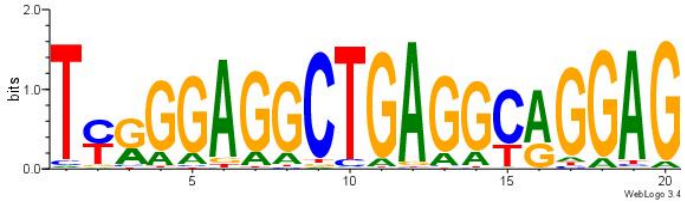

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.11235

Alignment:
GGGCTCCCACAGTGCAGCGG
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

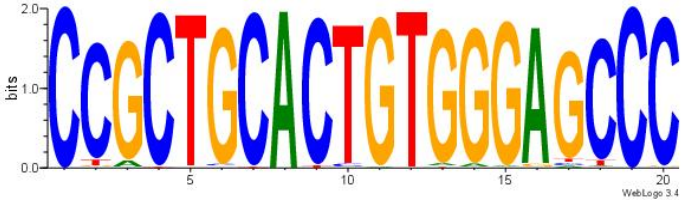

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

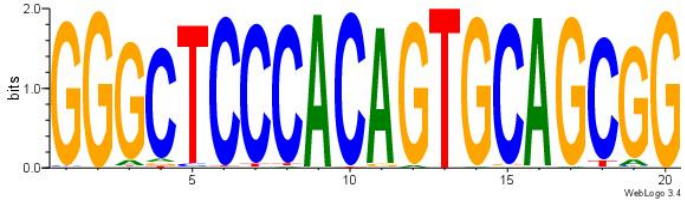

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.116478

Alignment:
GTTTAACCATTGAGGGCCAG
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

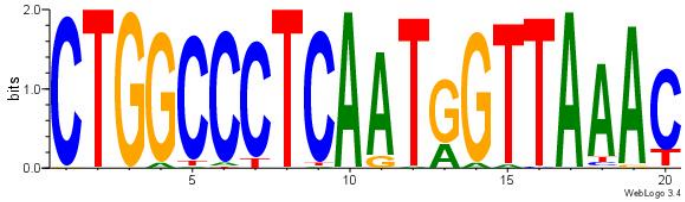

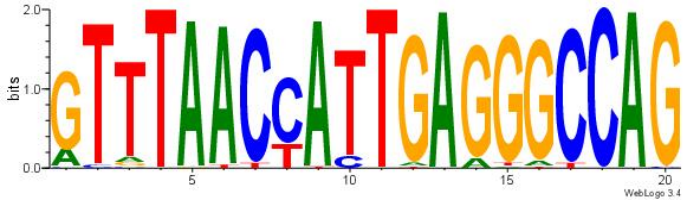

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1199

Alignment:

```
GCTGTGTGACCTTGGGCAAG
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

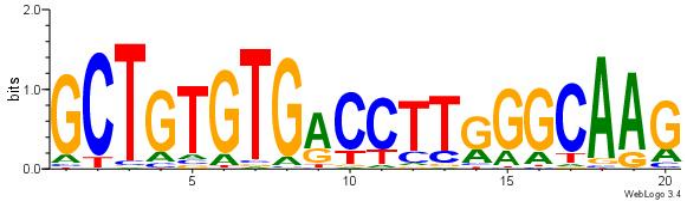

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

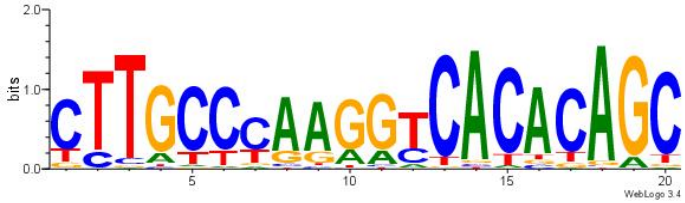

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119981

Alignment:

```
TYTGTCMTTTTGTGACTGGC
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

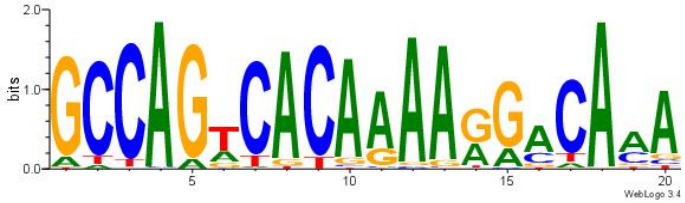

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

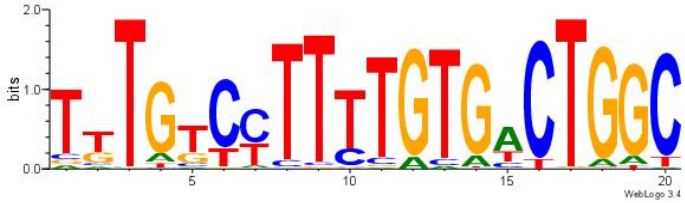

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.122649

Alignment:
AGCTCMKCCTCCTGTCAGAT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

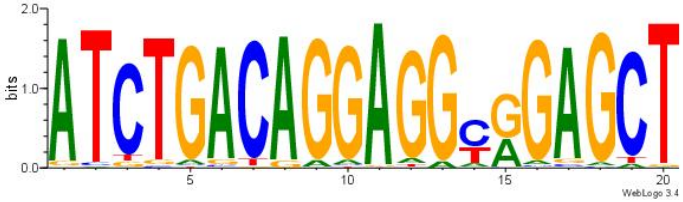

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

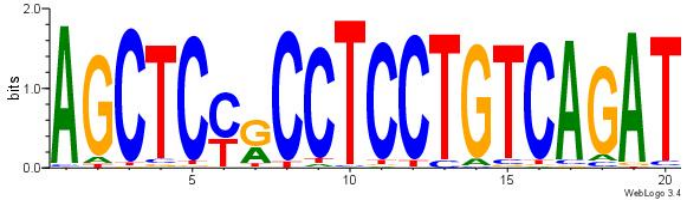

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.123747

Alignment:
CGTCGCTCACGCTGGGAGCT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

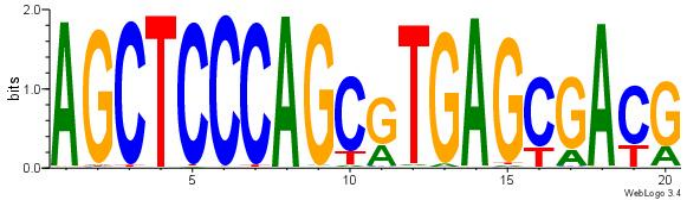

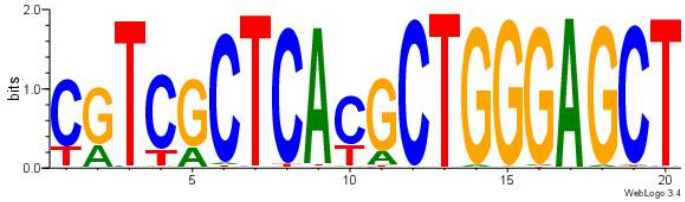

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124742

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

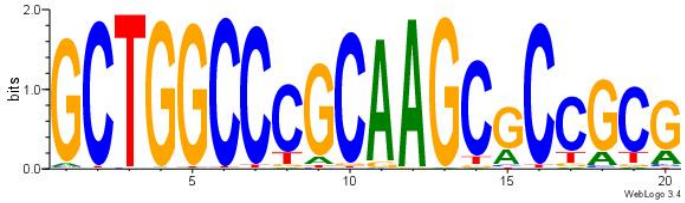

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

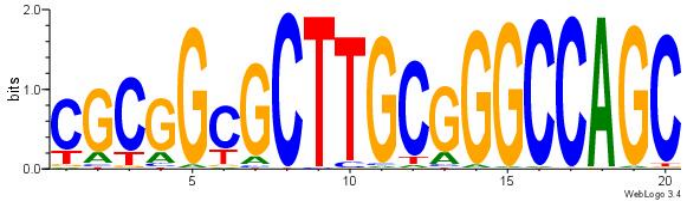

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126146

Alignment:
ACTGTCTTCCACCTCCACAT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

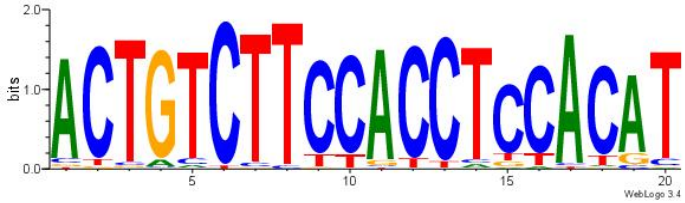

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

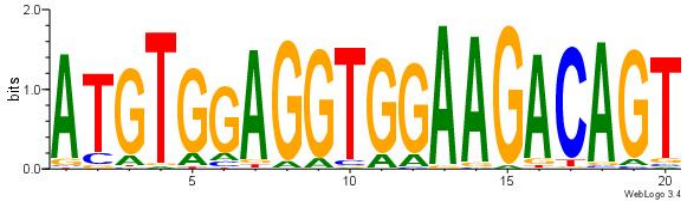

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.128425

Alignment:
CAGCTACTCKTATACCCTTG
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

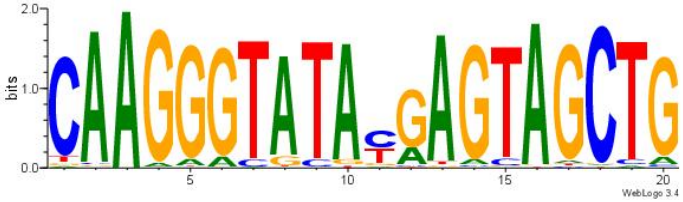

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

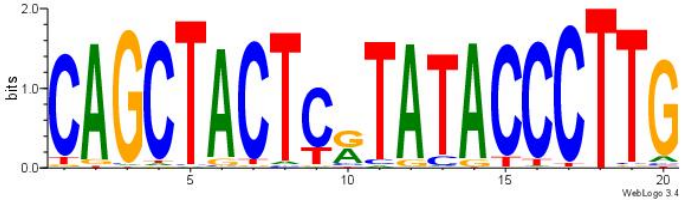

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129032

Alignment:
CAAGTTGACACATAAAATTA
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

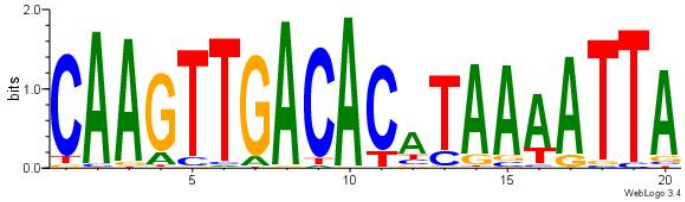

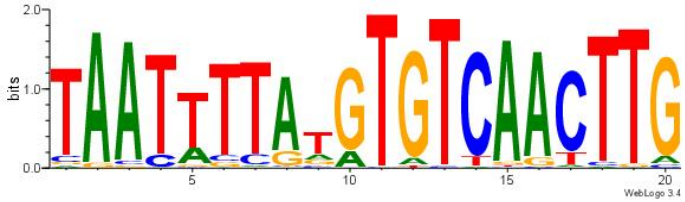

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129456

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

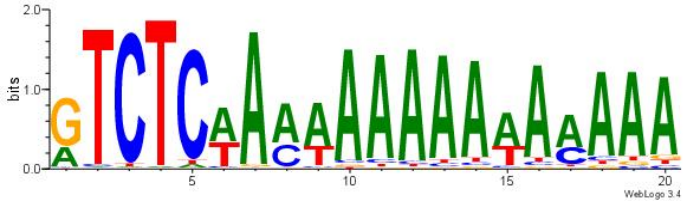

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

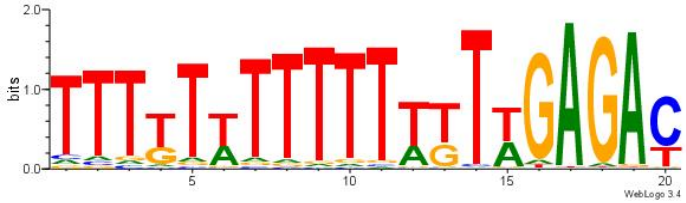

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13081

Alignment:

```
AAGACCTTCCAGTGGGACAA
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

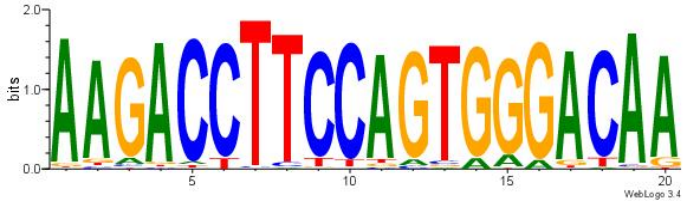

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

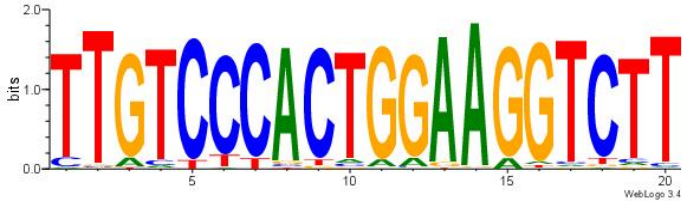

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.130986

Alignment:
ACCKTCGCGGTGAGTGTTAC
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

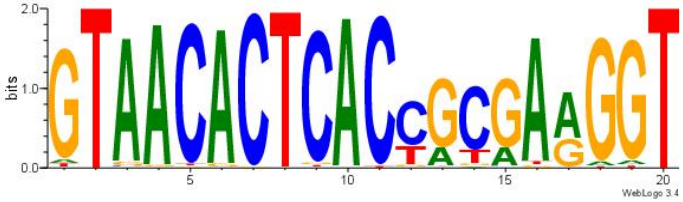

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

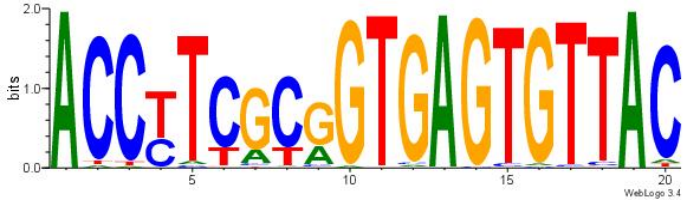

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131431

Alignment:
CRTGAGCCACYGYRCCYGGC
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

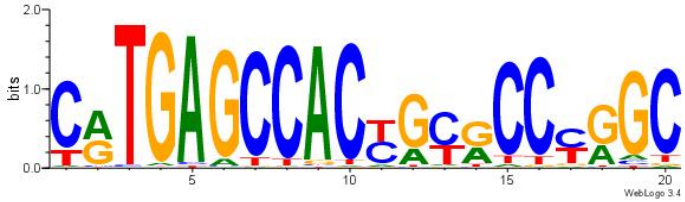

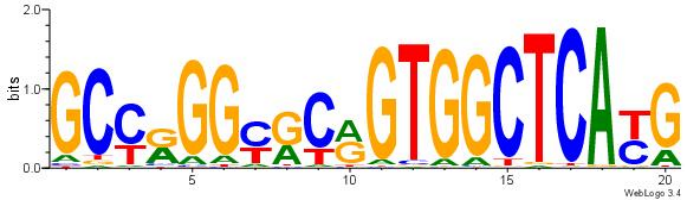

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131458

Alignment:

```
AATCAACCCTGGYRATCAAT
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

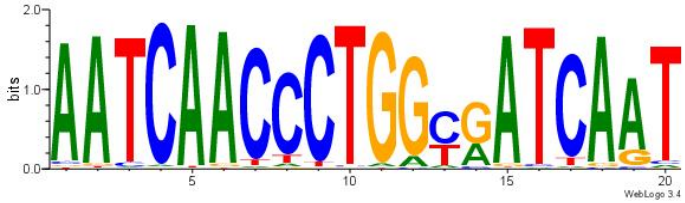

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

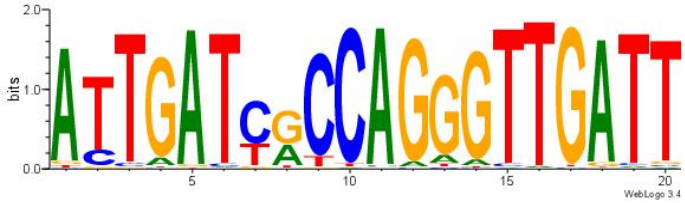

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131474

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

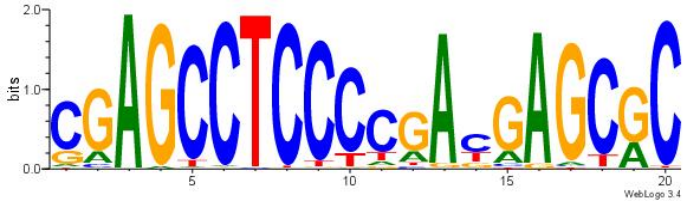

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

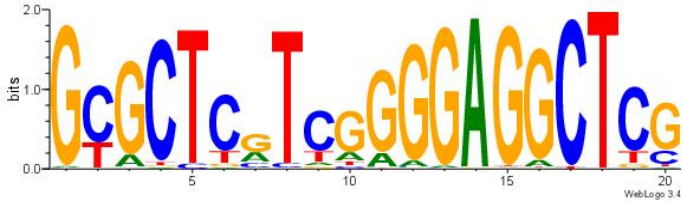

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.13175

Alignment:
HAGTGGKATTGCTGGATCAT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

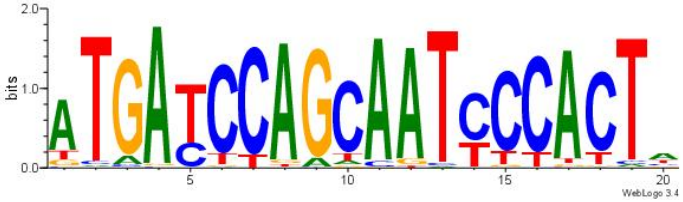

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

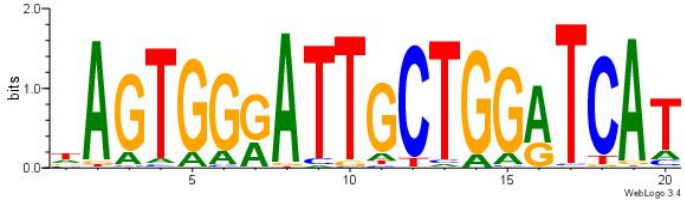

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132119

Alignment:
TCKMGCCACTGCACTCCAGC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

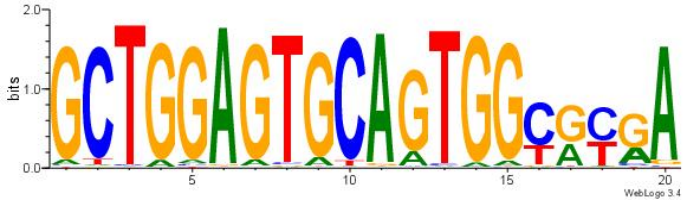

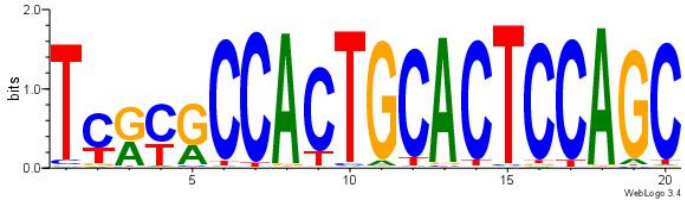

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13215

Alignment:

```
AGTGACCCGATTTTCCAGGT
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

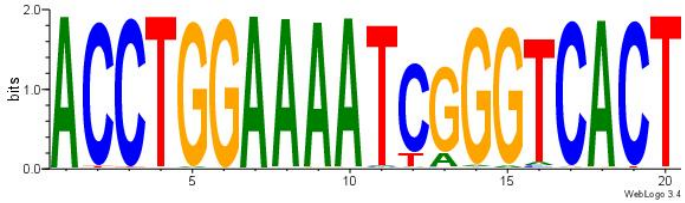

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

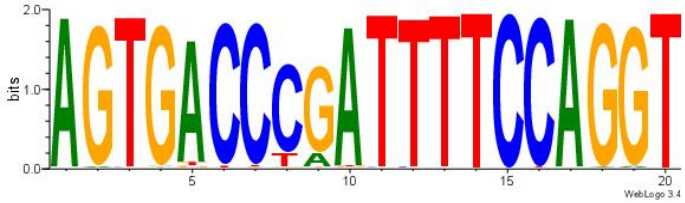

Dataset #: 1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133335

Alignment:

```
GTGCCAGGCACTGTKCTARG
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

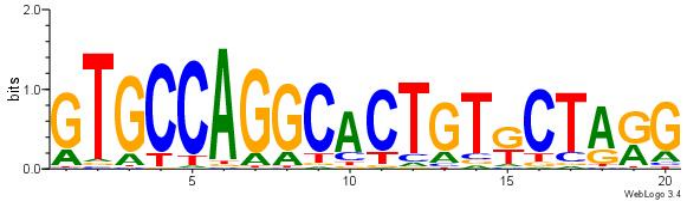

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

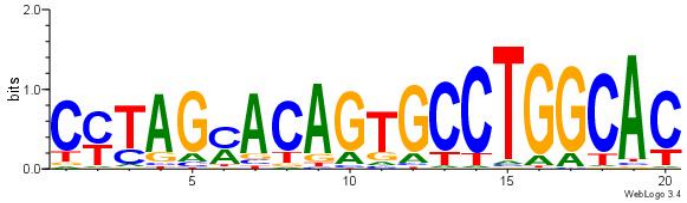

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.133677

Alignment:
ATGGACAYTTRGGTTGHTTC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

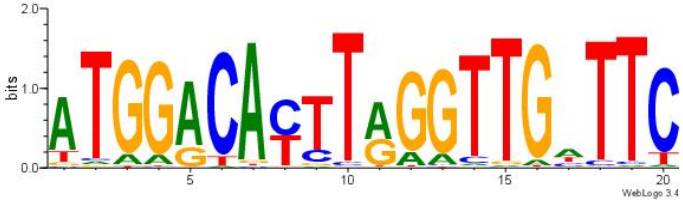

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

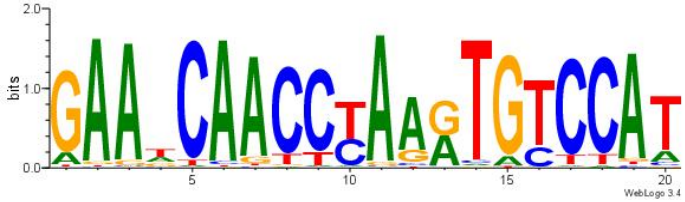

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133726

Alignment:
CTAGACATAAAGGTTCTCCA
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

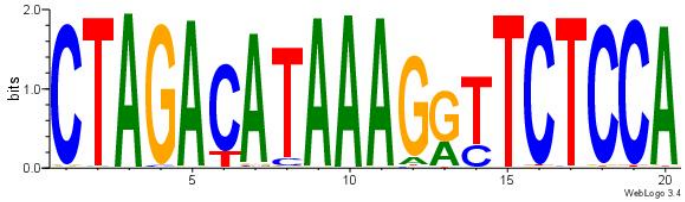

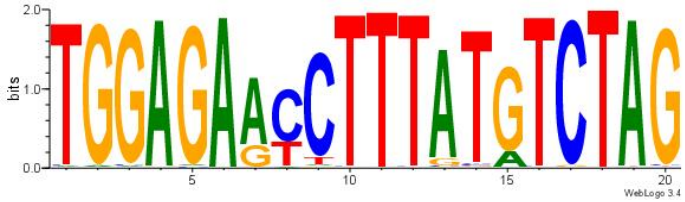

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134108

Alignment:

```
TWTACCTATGTAACAAACCT
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

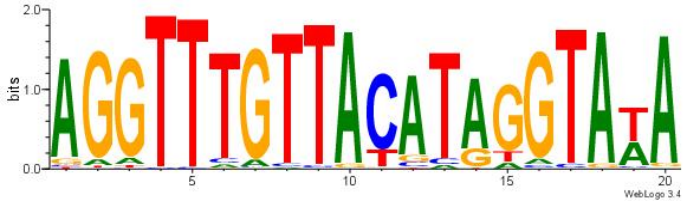

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

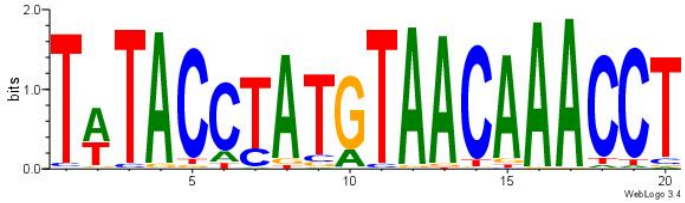

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134604

Alignment:

```
AGTGAGAACATRYRRTRTTT
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

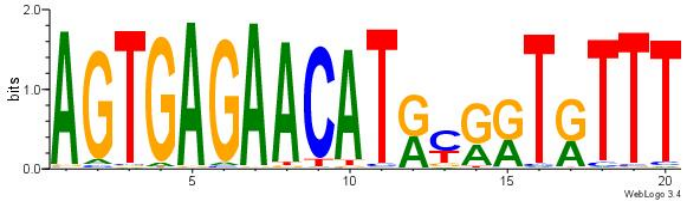

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

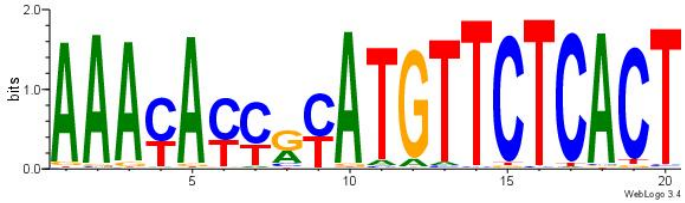

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134788

Alignment:
CTGACTGGGAGACACCTCCC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

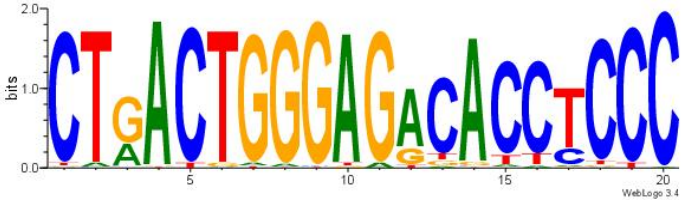

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

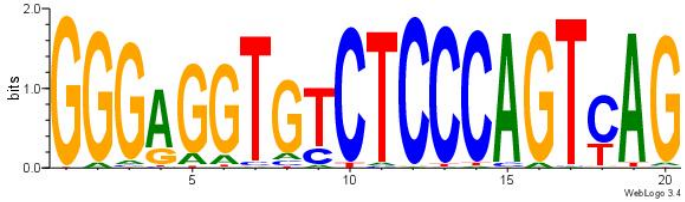

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135221

Alignment:
AAGCTCGAACTGGGTGGAGC
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

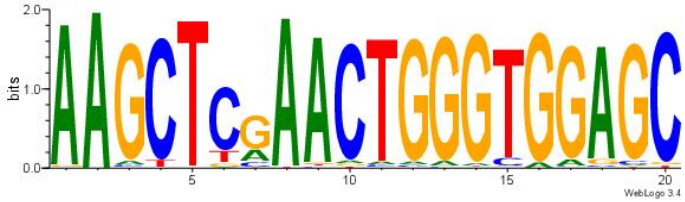

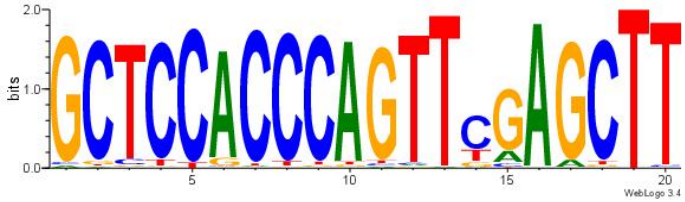

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136303

Alignment:

```
ACTCCCTAGTGAGATGAACC
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

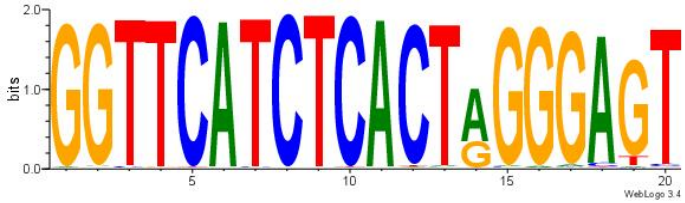

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

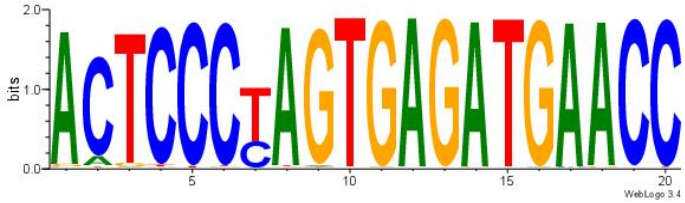

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136576

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

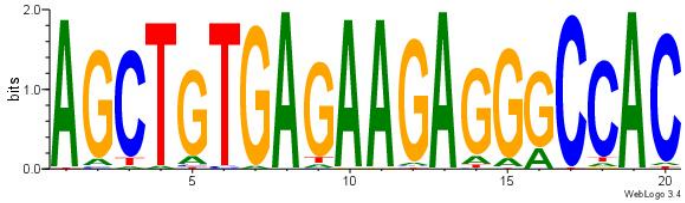

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

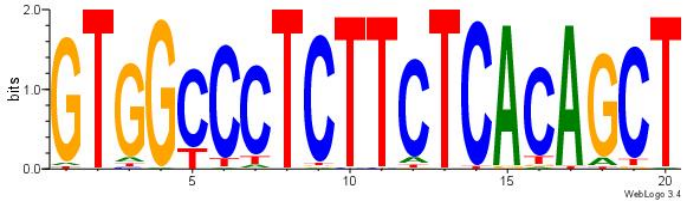

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136617

Alignment:
TTGGTAGGATCCGTGATGCC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

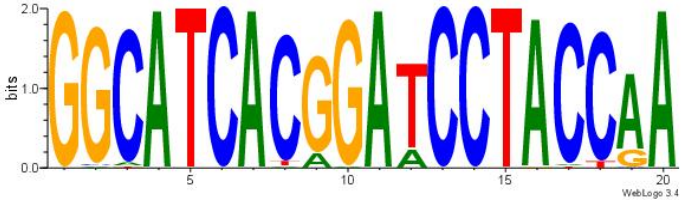

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

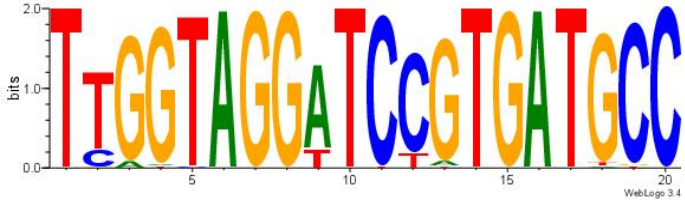

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137578

Alignment:
GGTGGAGCTGCCTGCCAGTC
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

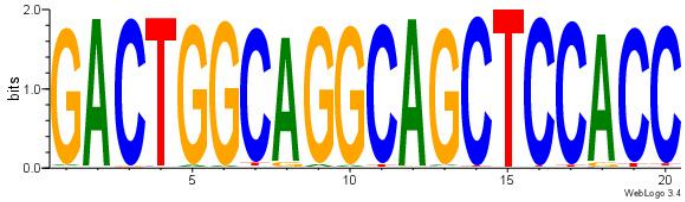

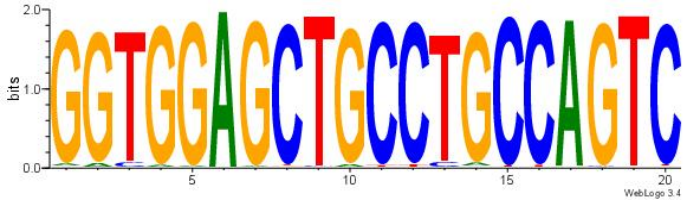

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138061

Alignment:

```
AAGTCCAAGATCAAGGTGYY
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

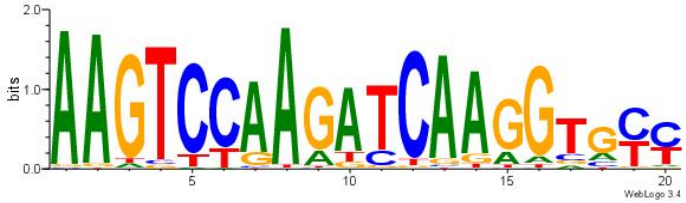

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

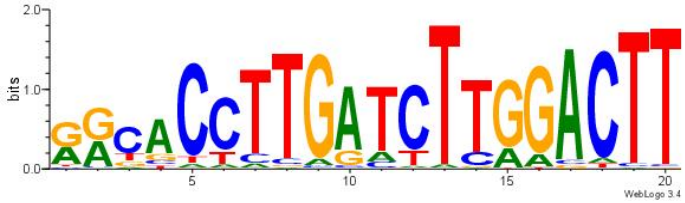

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138963

Alignment:

```
ATGGAATAYTATTCAGCCAT
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

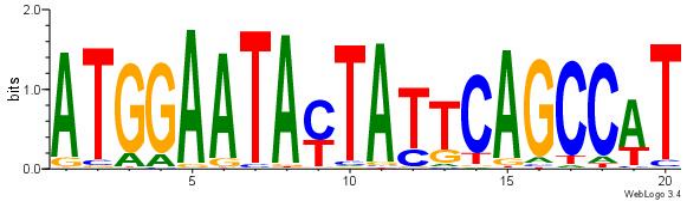

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

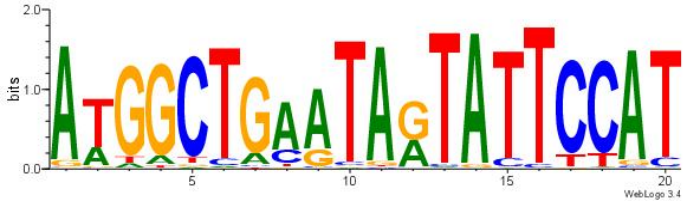

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139286

Alignment:
TGGCTTCACCCAGTGGATCC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

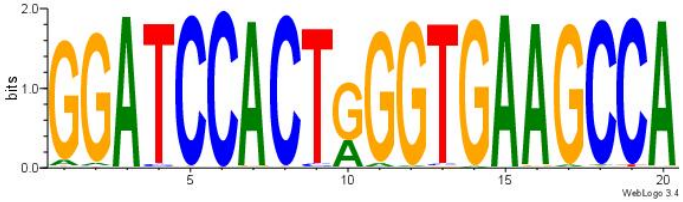

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

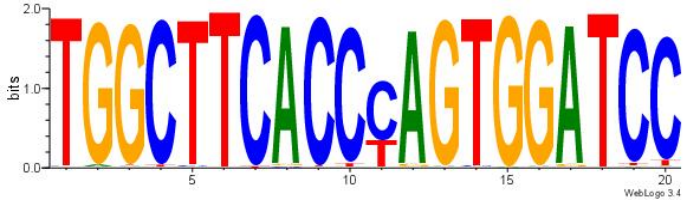

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139667

Alignment:
ATTGGTGTATTTACAATCCC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

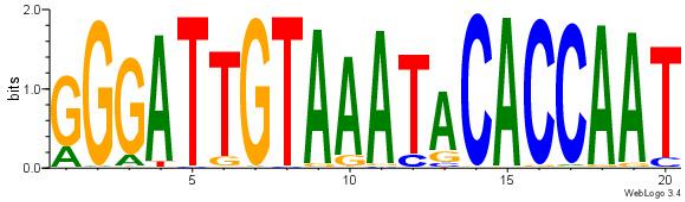

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140526

Alignment:

```
ACACATCACAAAGCAGTTTC
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

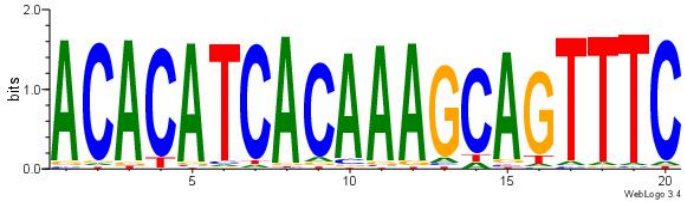

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

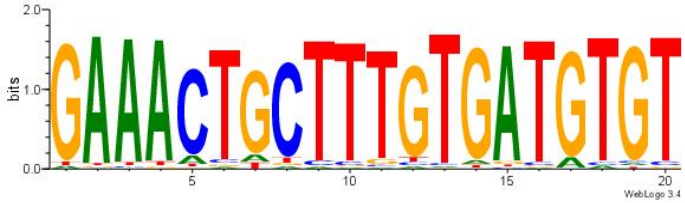

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141115

Alignment:

```
AGTAGGTGCTCARTAAATRB
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

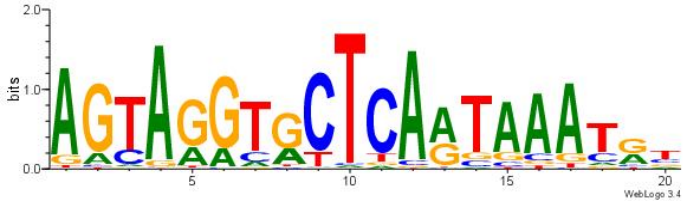

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

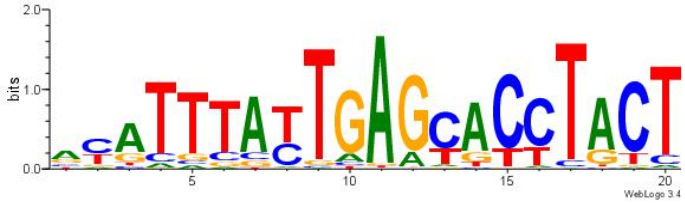

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.141139

Alignment:
ATAGGAATGCTTGTGATTTT
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

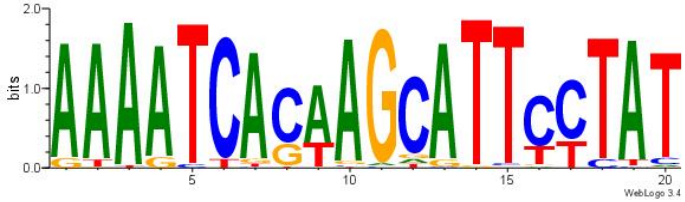

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

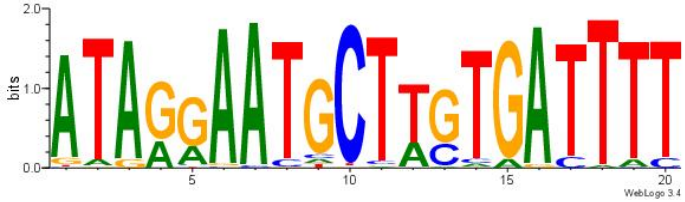

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142384

Alignment:
GAAGGCAGCTAAGGCCCGGY
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

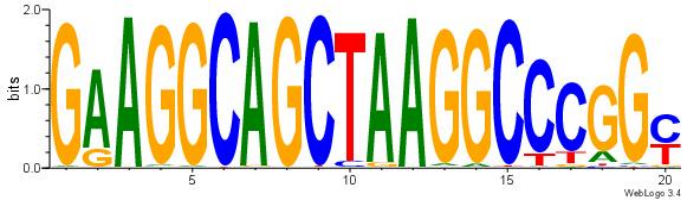

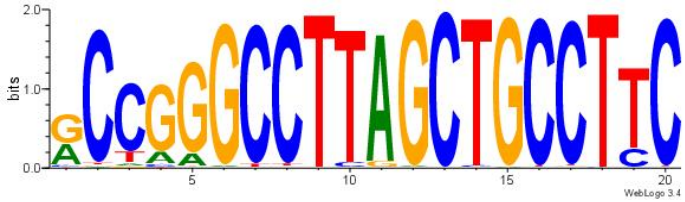

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1432

Alignment:
AGCCYCTGGYAACCAYYAWT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

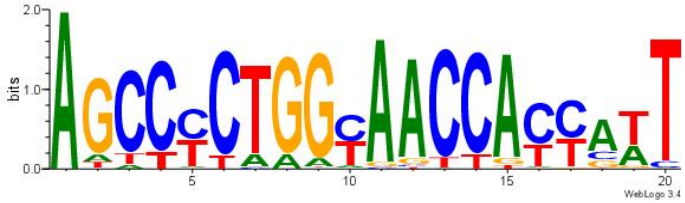

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

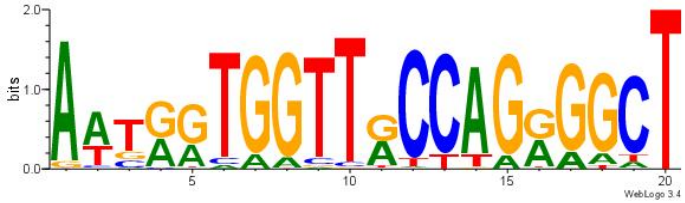

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144386

Alignment:

```
GCAAAKGACATGATYTCATT
CTGGGCRACAGAGYRAGACY
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

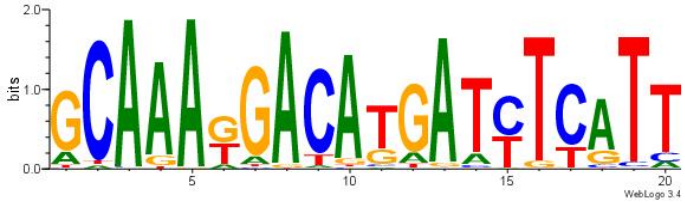

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

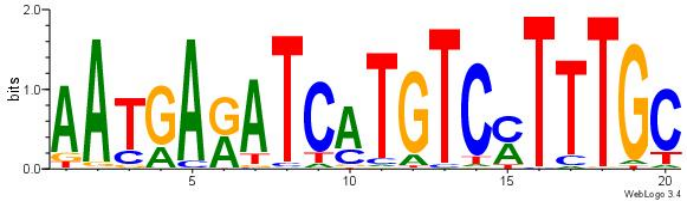

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145422

Alignment:
CCCGAAGCTGCRYRCTCGGT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

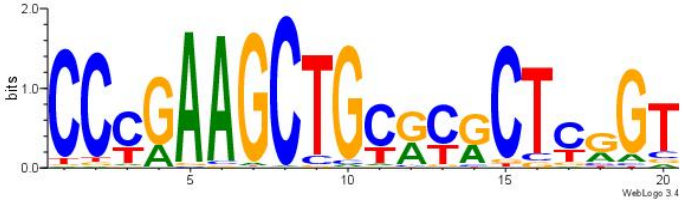

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

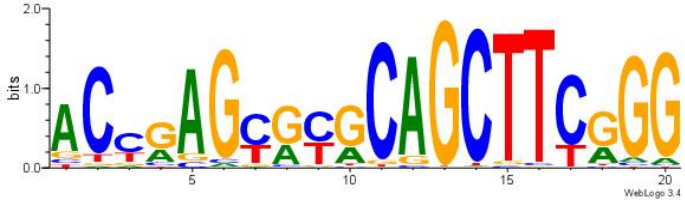

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146452

Alignment:
CATTCTGGGGTCTGGAGGAY
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

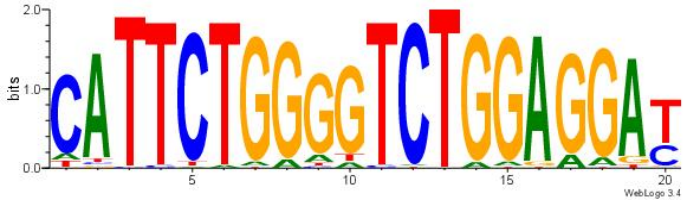

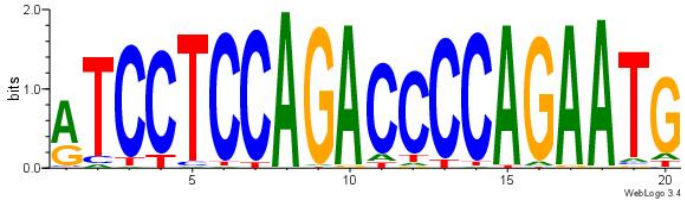

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146608

Alignment:
CAGGTGGTKTTTGGTTACAT
MGTCTMKCTCTGTKGCCCAG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

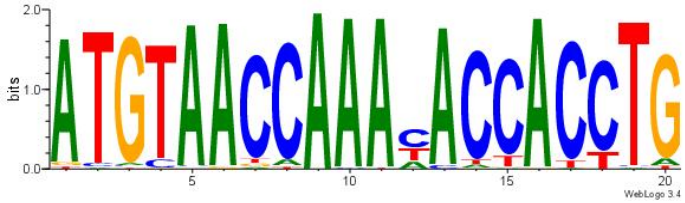

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

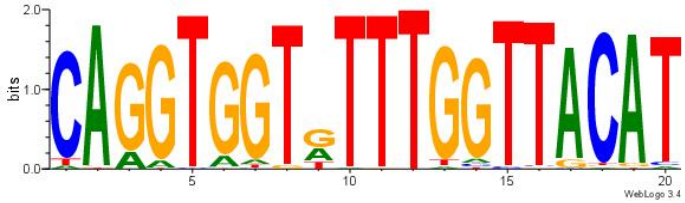

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147037

Alignment:

```
AAATTAGGCCAATTAATAAC
MGTCTMKCTCTGTKGCCCAG
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

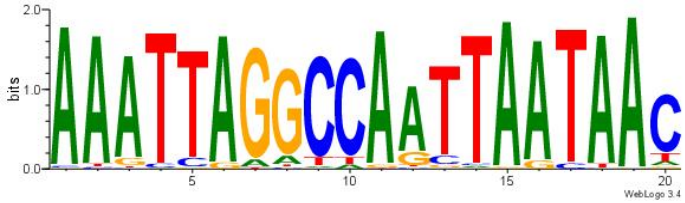

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147569

Alignment:
CGGCGCTGMGCTCGATTTCT
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

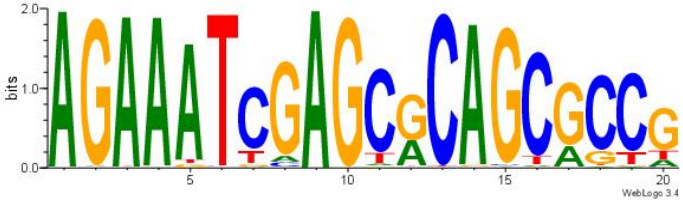

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

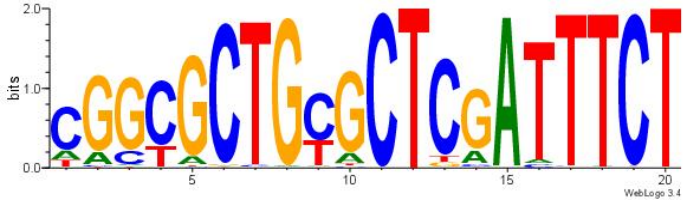

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148354

Alignment:
AAGGAACAAACTCCRGACAC
CTGGGCRACAGAGYRAGACY

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

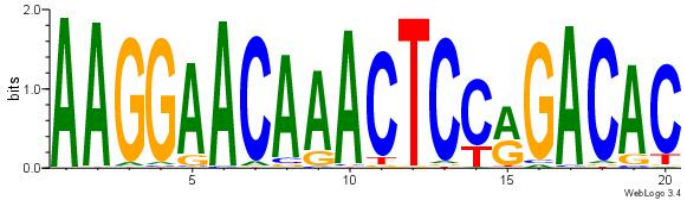

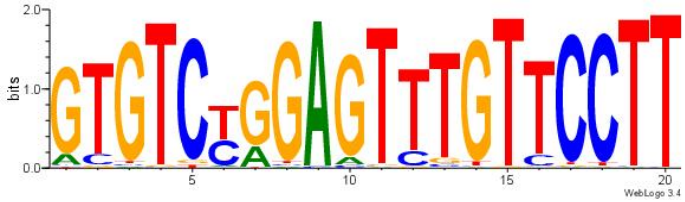

Dataset #: 1 **Motif ID: 30** **Motif name: Motif 30**

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

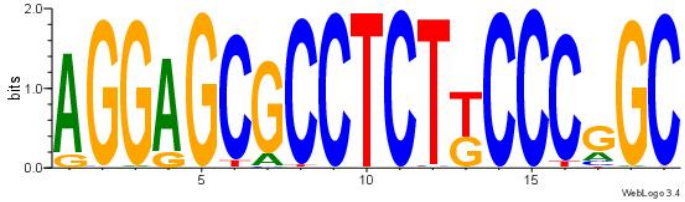

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

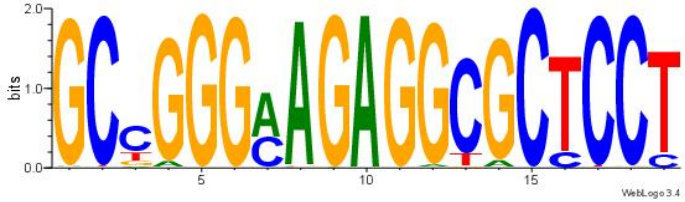

Best Matches for Motif ID 30 (Highest to Lowest)

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0399316

Alignment:

AGGAGRCMCTCTGCCTGGC
AGGAGCGCCTCTKCCCGGC

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

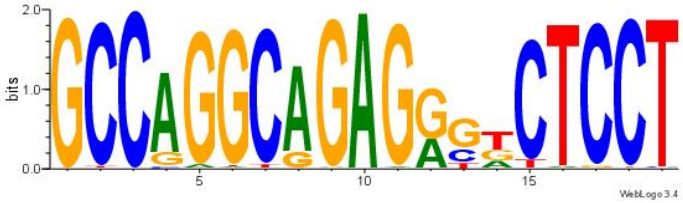

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

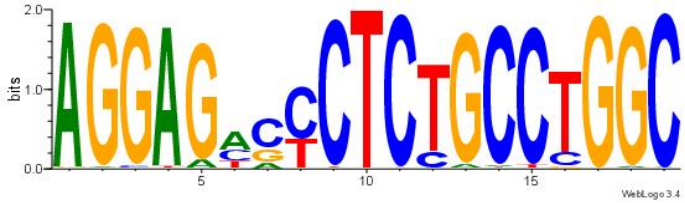

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0610031

Alignment:
AGGASCSTCYSWGCCMGGY
AGGAGCGCCTCTKCCCGGC

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

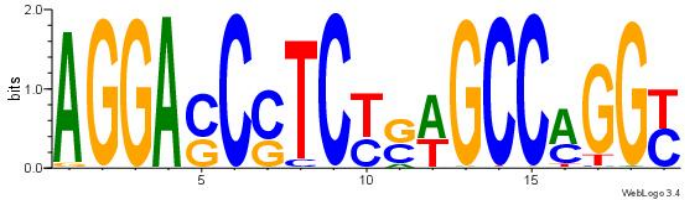

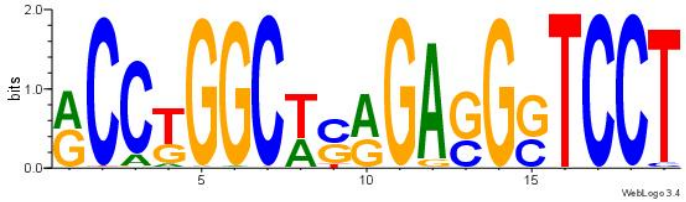

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.077695

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

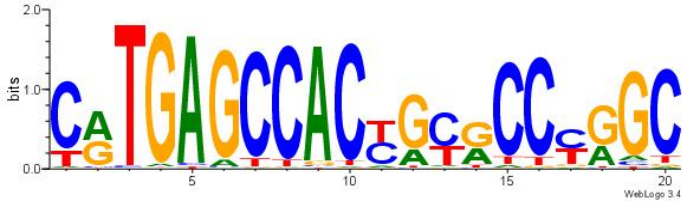

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

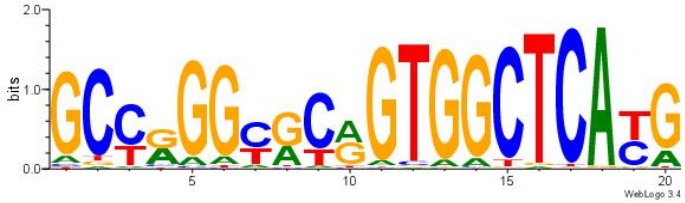

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0937137

Alignment:

```
AGGAACAGCTCCRGTCTAC
AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

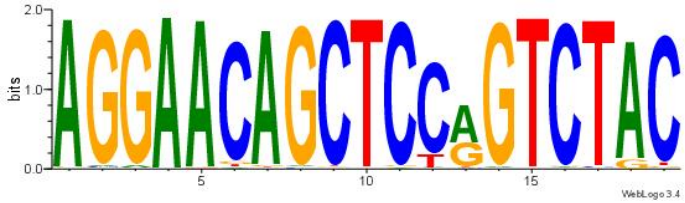

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

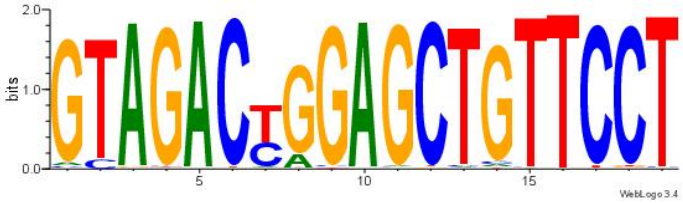

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.0942612

Alignment:
AGGACTGAGGGTGCCYRGGG
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

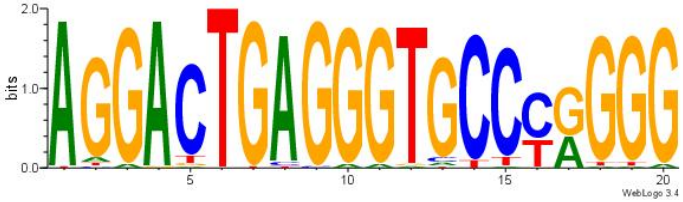

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

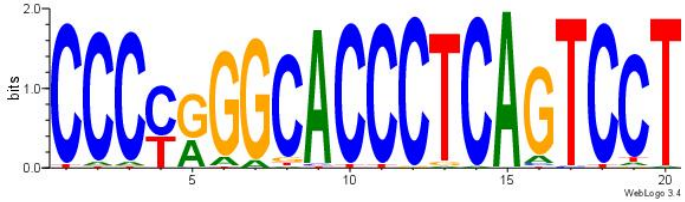

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.101811

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

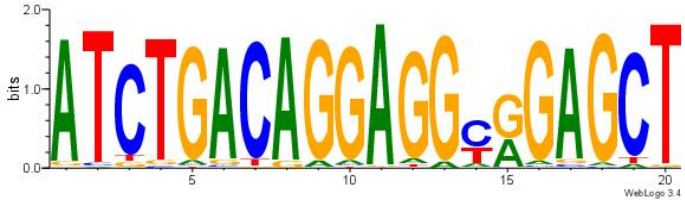

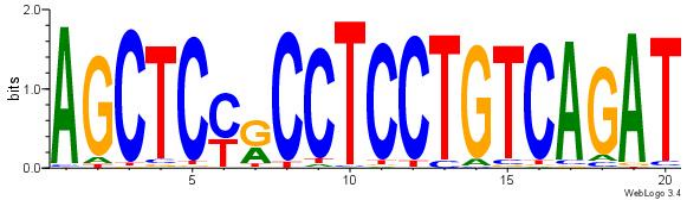

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.104206

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

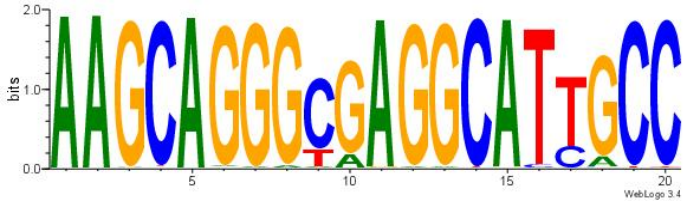

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

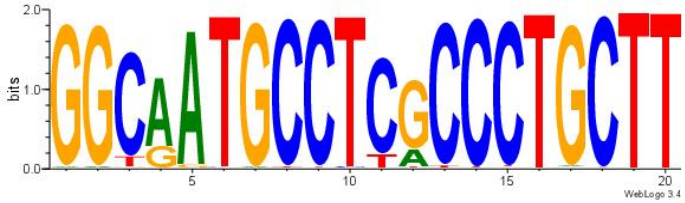

Dataset #:	1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.105076

Alignment:
GGTGGGGGGGTCAGCCCCC
GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

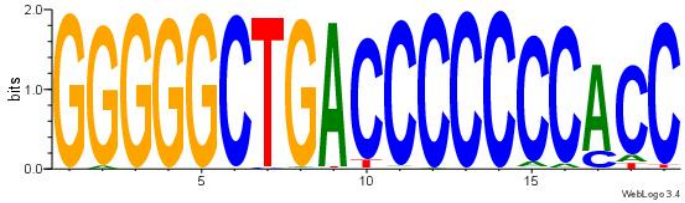

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

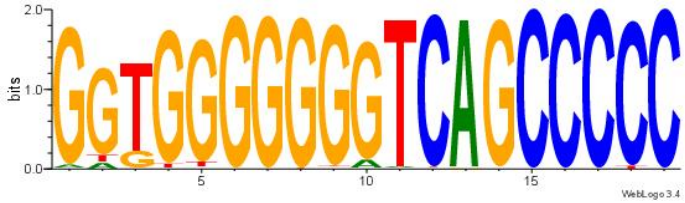

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.105775

Alignment:
GAAGGCAGCTAAGGCCCGGY
-AGGAGCGCCTCTKCCCGGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

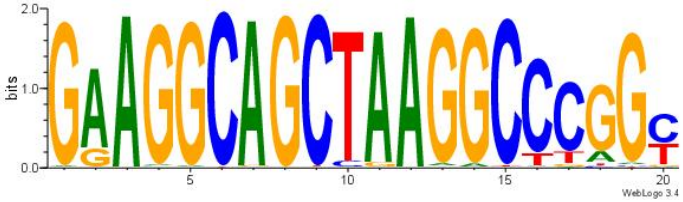

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

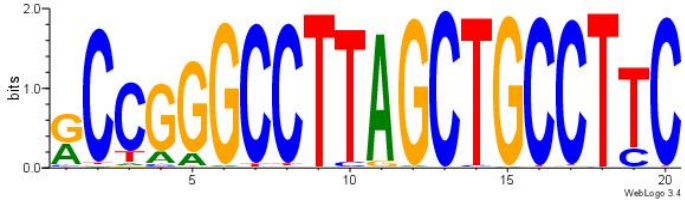

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.106749

Alignment:
GCAAAKGACATGATYTCATT
GCCGGGRAGAGGCGCTCCT-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

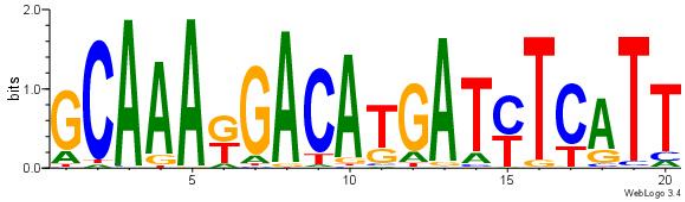

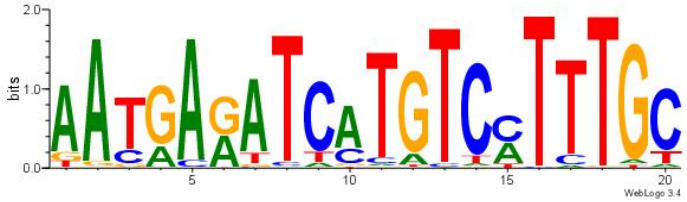

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.107933

Alignment:

```
ACCTGGAAAATCGGGTCACT
-GCCGGGRAGAGGCGCTCCT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

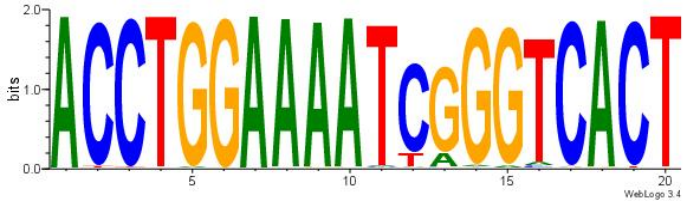

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

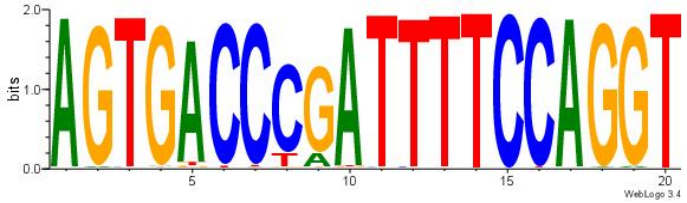

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.109358

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
AGGAGCGCCTCTKCCCGGC-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

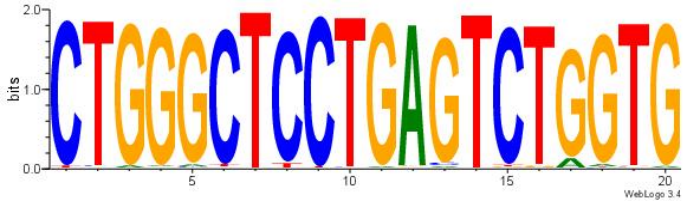

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

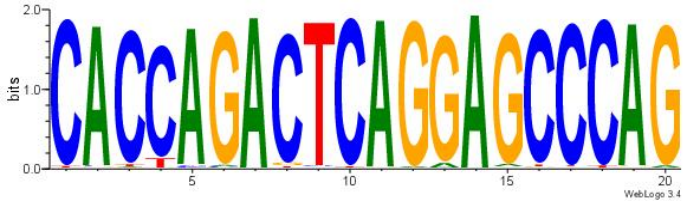

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.112218

Alignment:
AGCCCCGGTTCCCGCYCGC
AGGAGCGCCTCTKCCCGGC

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

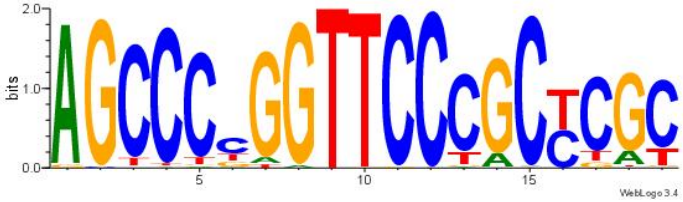

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

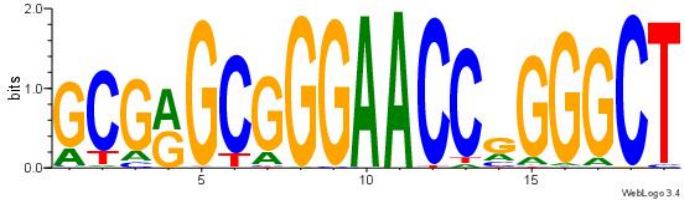

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.112585

Alignment:
AGCTGTGAGAAGAGGGCCAC
GCCGGGRAGAGGCGCTCCT-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

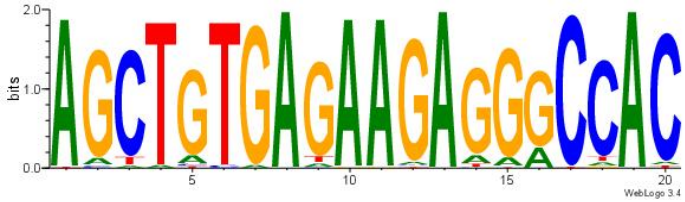

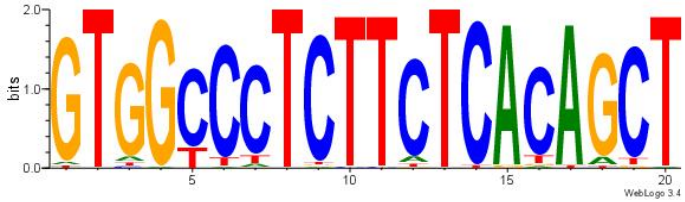

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112744

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
AGGAGCGCCTCTKCCCGGC-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

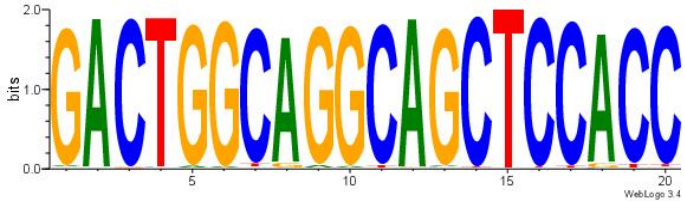

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

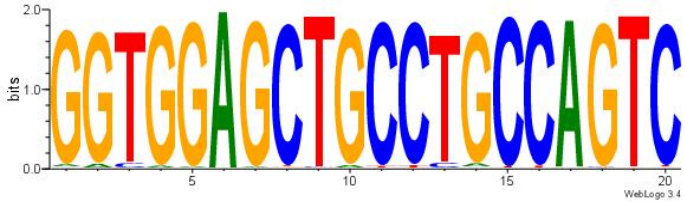

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.114463

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GCCGGGRAGAGGCGCTCCT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

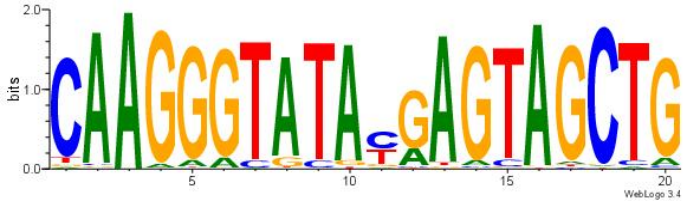

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

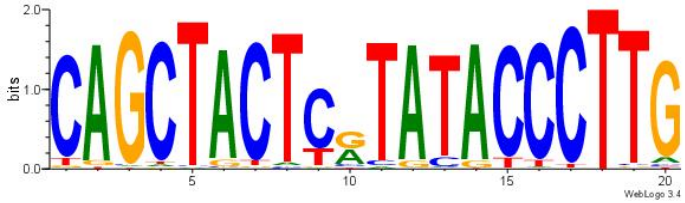

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.11484

Alignment:
CTGGGTCCCCCAGCAGTGCC
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

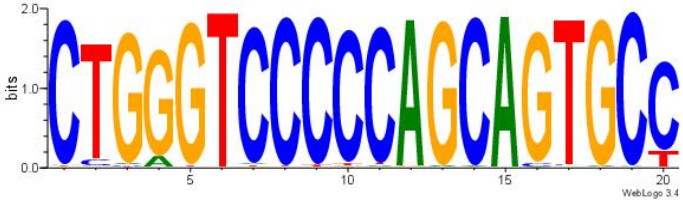

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

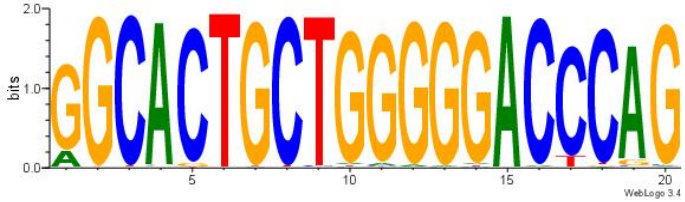

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.118198

Alignment:
AGAAATCGAGCRCAGCGCCG
-GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

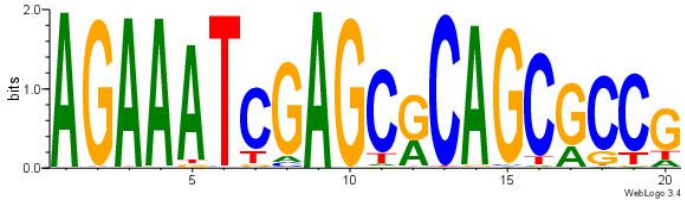

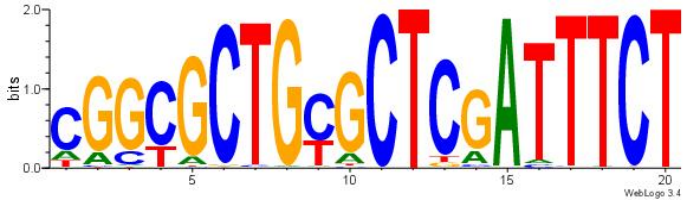

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.120184

Alignment:

```
AAAMAMMKMATGTTCTCACT
-AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

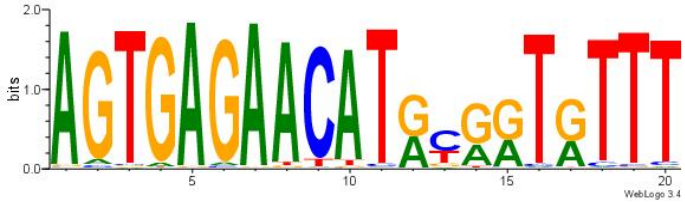

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

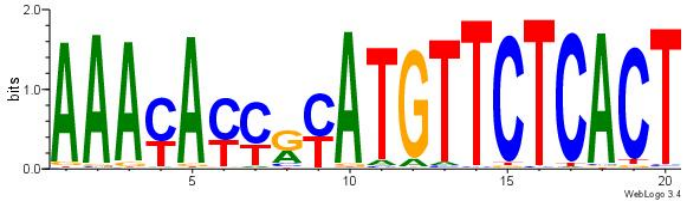

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.122692

Alignment:

```
TCKMGCCACTGCACTCCAGC
AGGAGCGCCTCTKCCCGGC-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

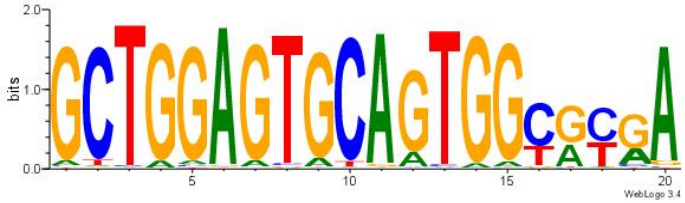

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

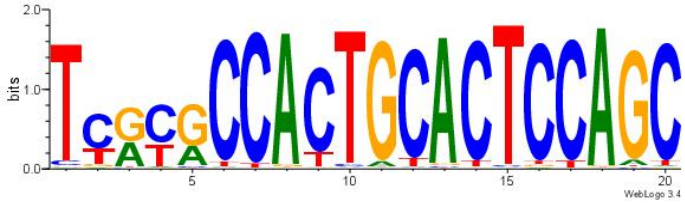

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.124264

Alignment:
AAGCTGAGGGAGCCGGCTCC
-GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

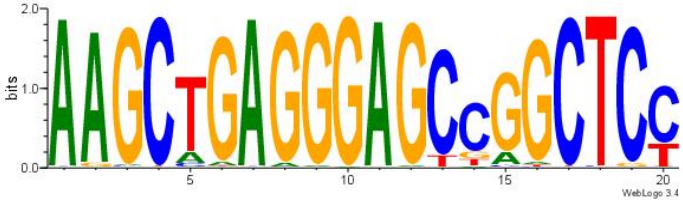

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

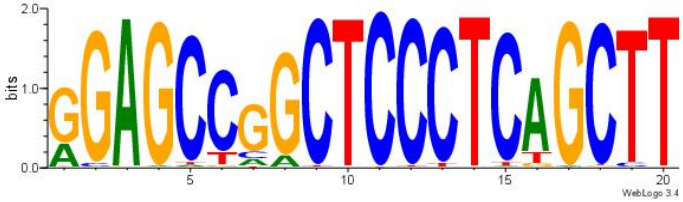

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.12523

Alignment:
MGGGATATAATCTCCTGGTG
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

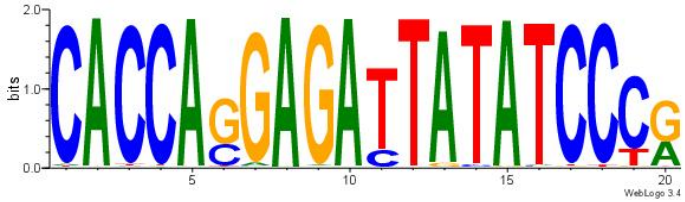

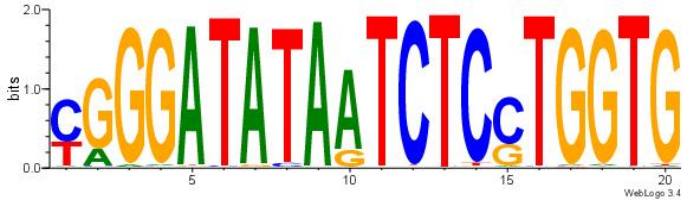

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125837

Alignment:

```
CTGAGGACCTGAGGTCRTA
AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

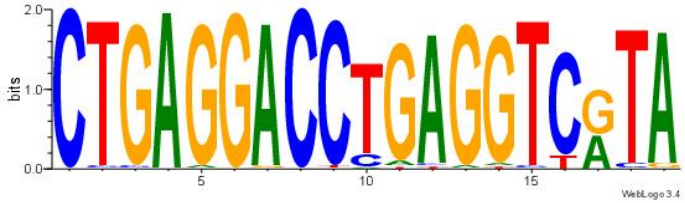

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

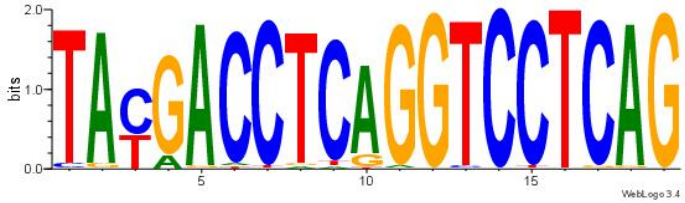

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125991

Alignment:

```
CTAGACATAAAGGTTCTCCA
-GCCGGGRAGAGGCGCTCCT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

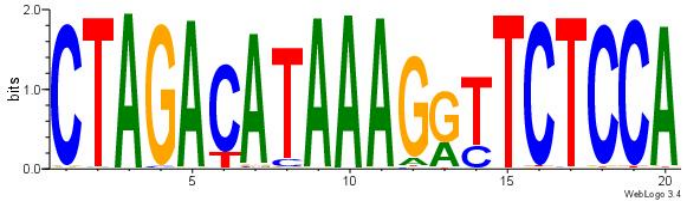

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

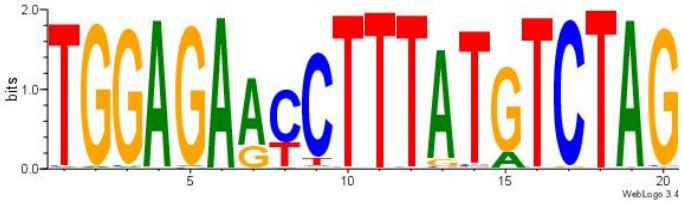

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.126091

Alignment:
GCCACCAMGCCMKGCTAAT
GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

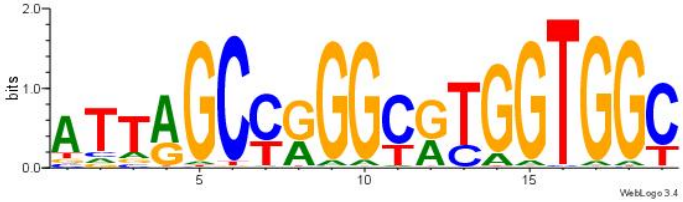

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

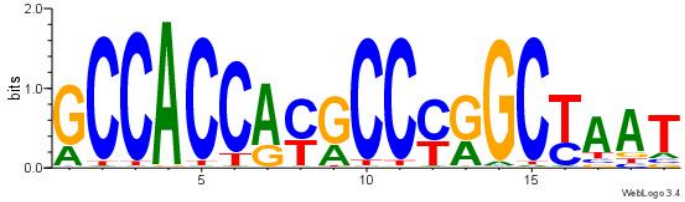

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.126793

Alignment:
CTCCTGCCTCAGCCTCCCRA
GCCGGGRAGAGGCGCTCCT-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

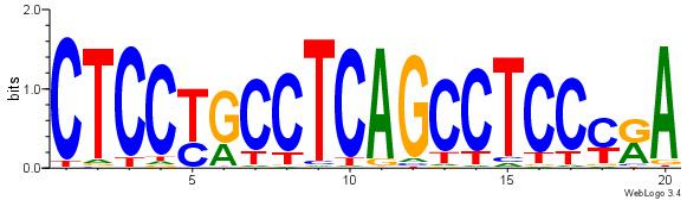

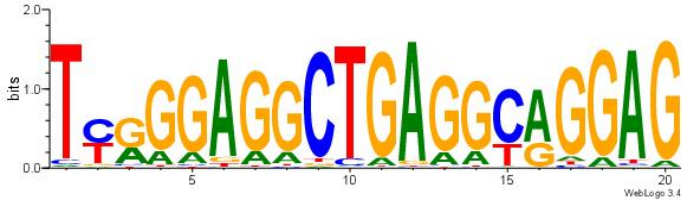

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127374

Alignment:

```
VMATTTAKTGAGCACCTACT
-GCCGGGRAGAGGCGCTCCT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

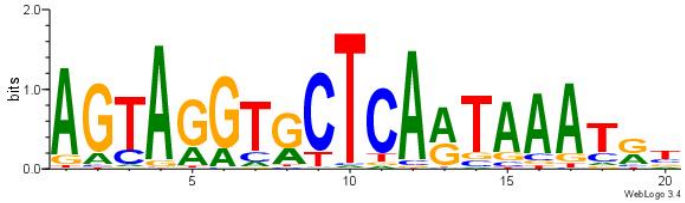

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

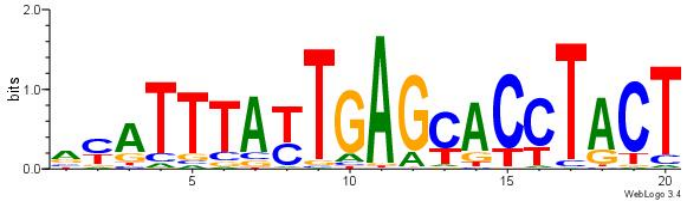

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128071

Alignment:

```
AGTTCCGGGTGGGCGTGGG
AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

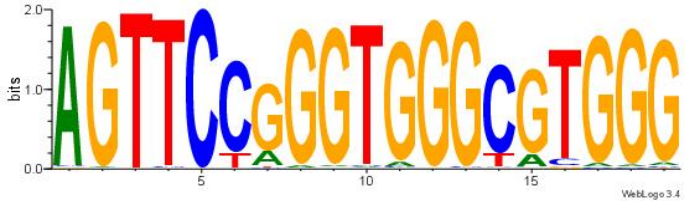

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

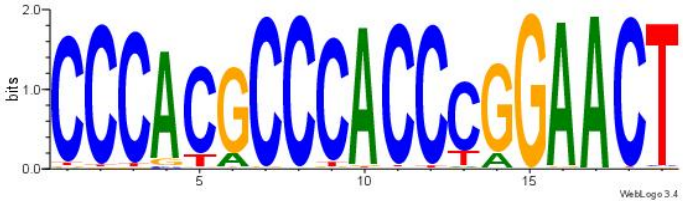

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.128954

Alignment:
TYTGTCMTTTTGTGACTGGC
-AGGAGCGCCTCTKCCCGGC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

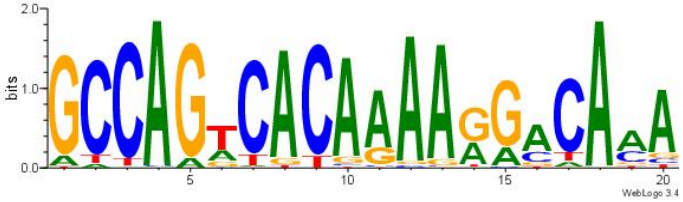

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

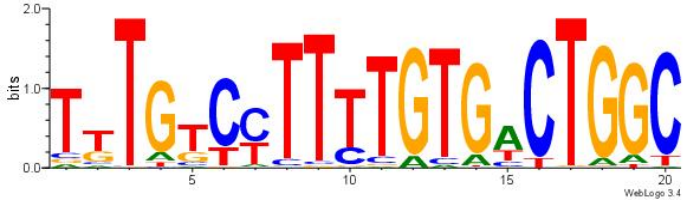

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.128982

Alignment:
GGGTCAGGGAGTTCCCTTTC
-AGGAGCGCCTCTKCCCGGC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

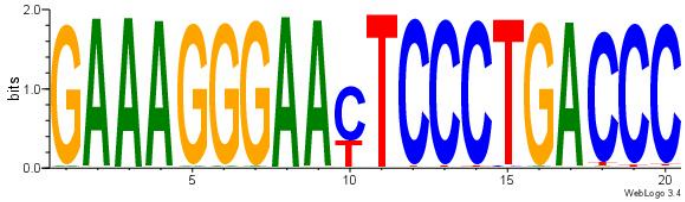

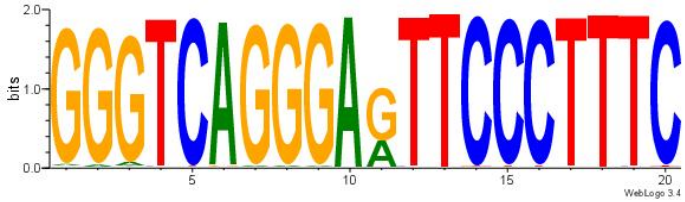

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.130816

Alignment:

```
GCTGGCCCKGGTGCTAAGC
AGGAGCGCCTCTKCCCGGC
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

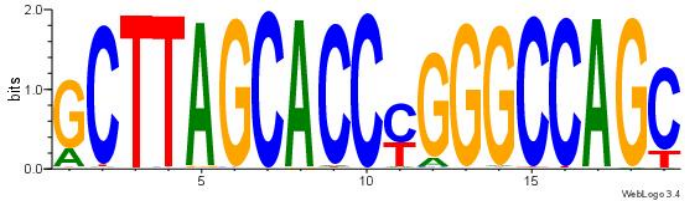

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

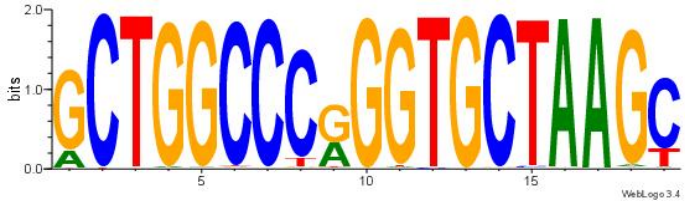

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131311

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
GCCGGGRAGAGGCGCTCCT-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

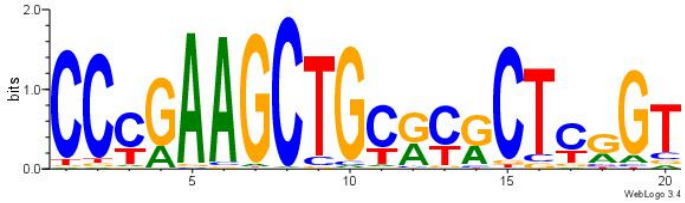

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

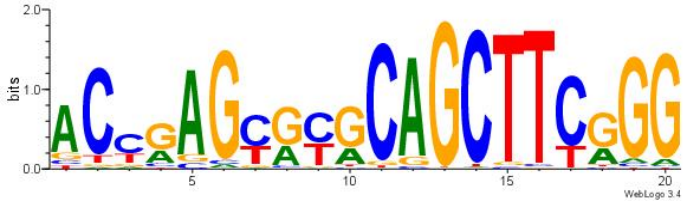

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.131337

Alignment:
AACAACASACACTGGGGCCT
-GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

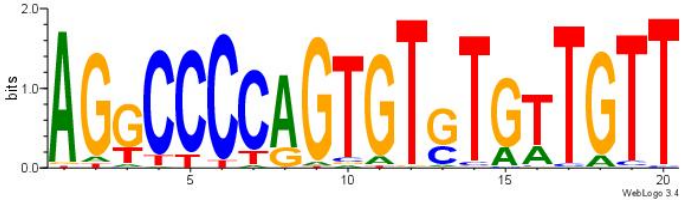

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

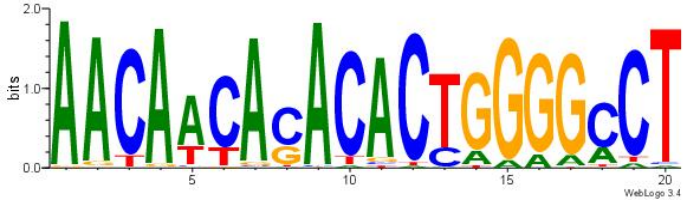

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.131364

Alignment:
CGCGGCGCTTGCGGGCCAGC
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

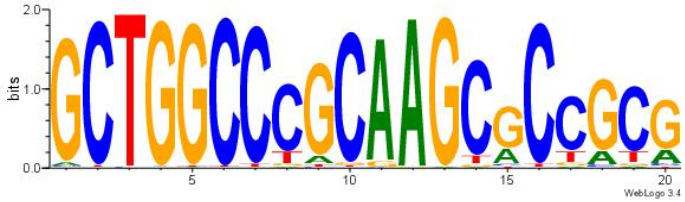

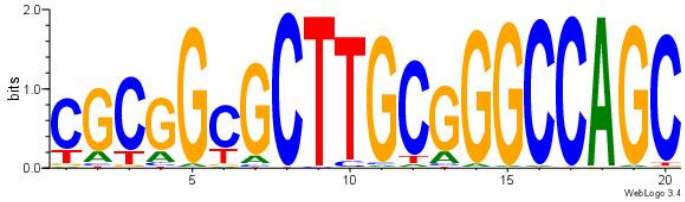

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132314

Alignment:

```
ATTGGTGTATTTACAATCCC
AGGAGCGCCTCTKCCCGGC-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

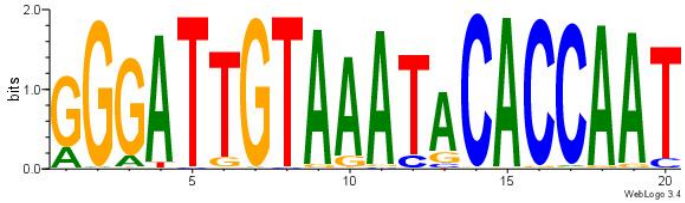

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132702

Alignment:

```
GACAGGAGATTAACACTGAG
-GCCGGGRAGAGGCGCTCCT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

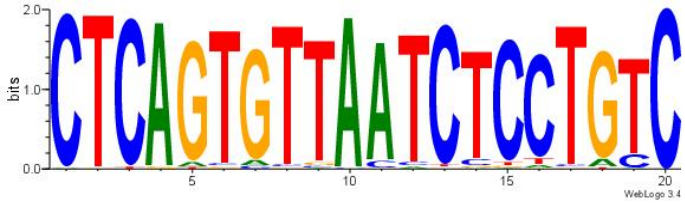

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

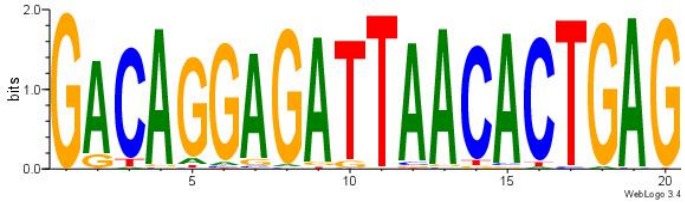

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.133248

Alignment:
GCCTCTCCCTCCACACCTCC
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

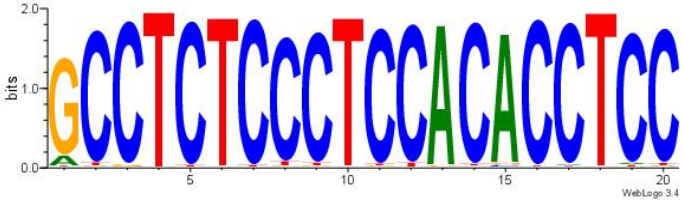

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

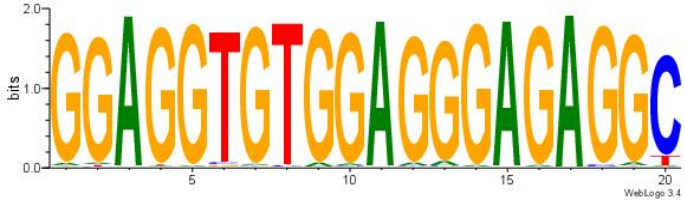

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.13411

Alignment:
GAGAGAGAGAGAGAGAGAGA
GCCGGGRAGAGGCGCTCCT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

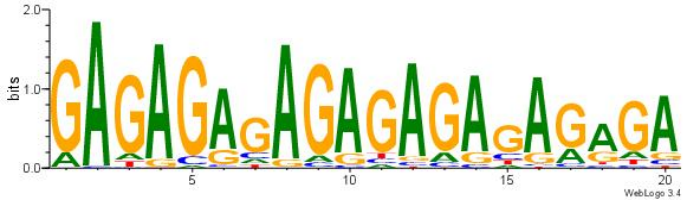

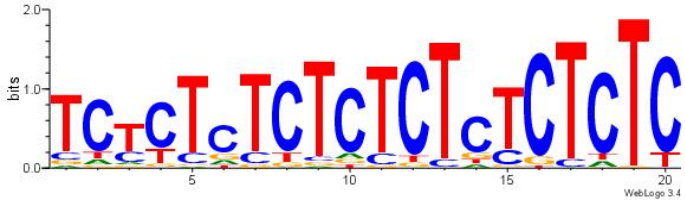

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134452

Alignment:
TGAGKCAATTAAACCTCTT
GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

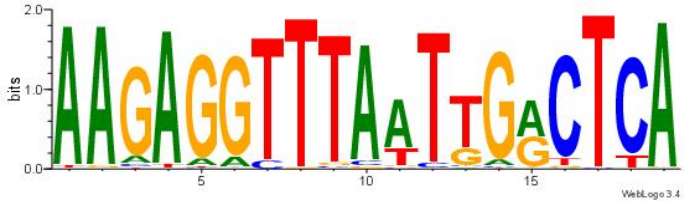

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

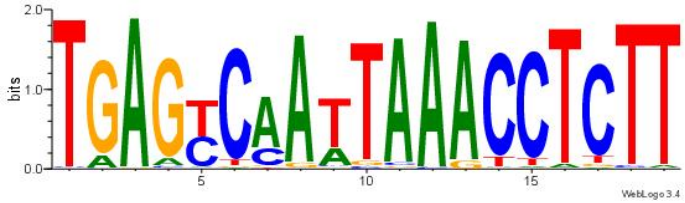

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.135025

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GCCGGGRAGAGGCGCTCCT-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

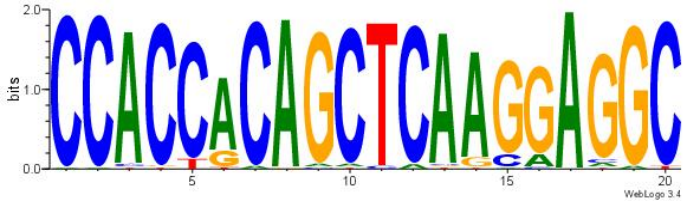

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

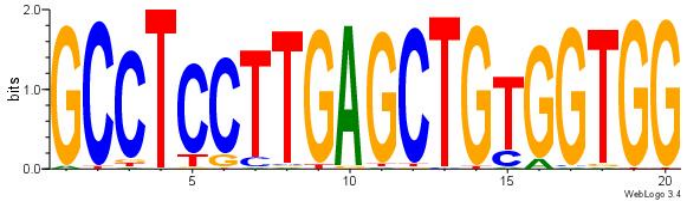

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.135036

Alignment:
GACTTCAAGAATGAAGCCG
GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

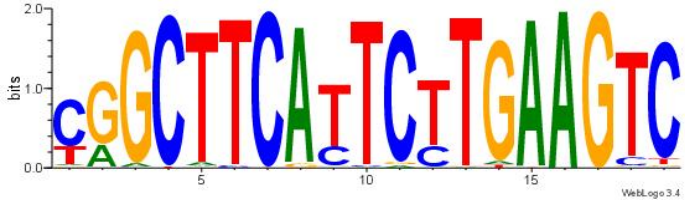

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.135853

Alignment:
AGCCYCTGGYAACCAYYAWT
-GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

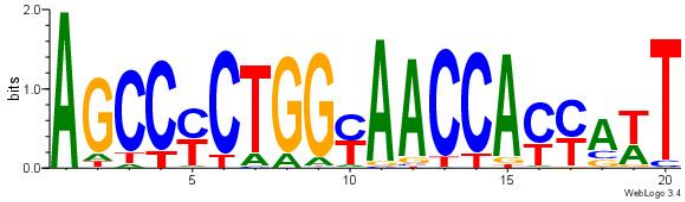

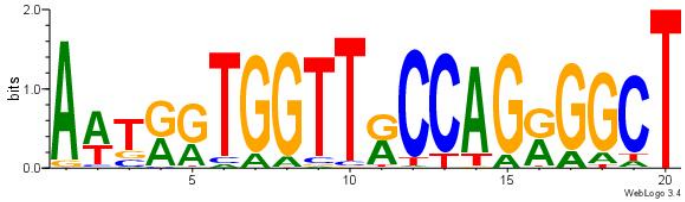

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.135942

Alignment:
CTGACTGGGAGACACCTCCC
GCCGGGRAGAGGCGCTCCT-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

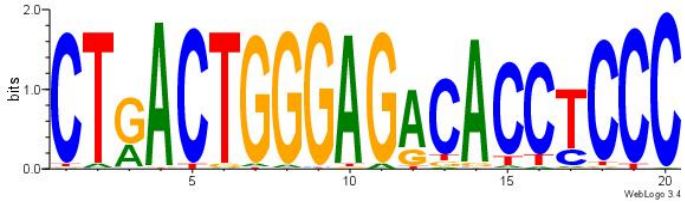

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

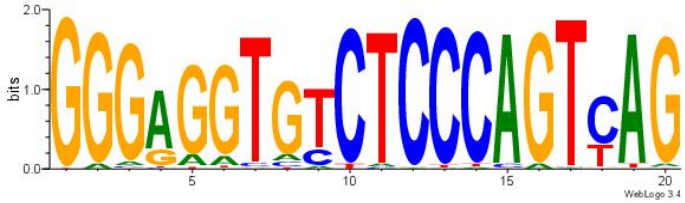

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136112

Alignment:

```
HAGTGGKATTGCTGGATCAT
-GCCGGGRAGAGGCGCTCCT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

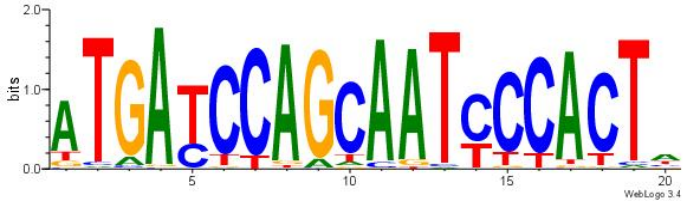

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

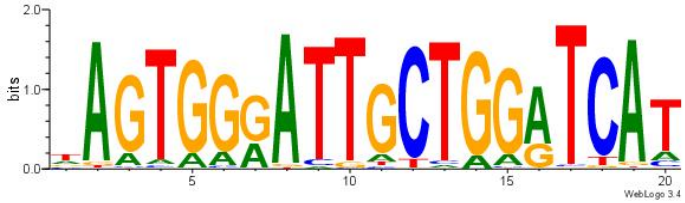

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.137408

Alignment:
GGGTGCAGGMGGGCTGAGT
GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

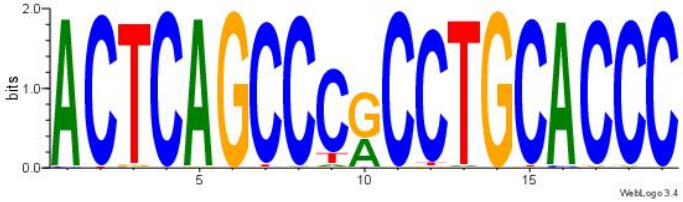

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

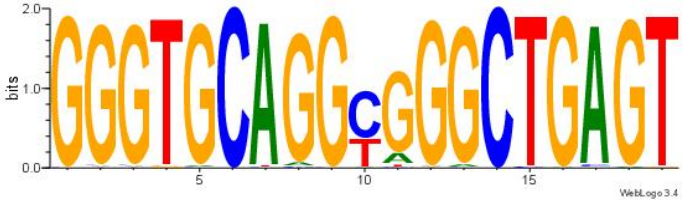

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.137441

Alignment:
GTGTCKGGAGTTTGTTCCTT
GCCGGGRAGAGGCGCTCCT-

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

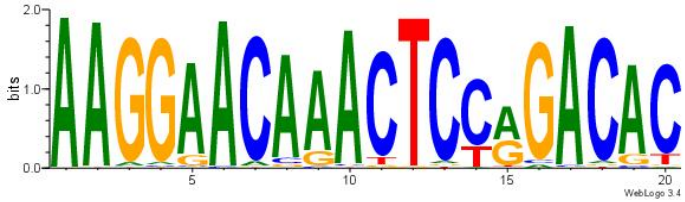

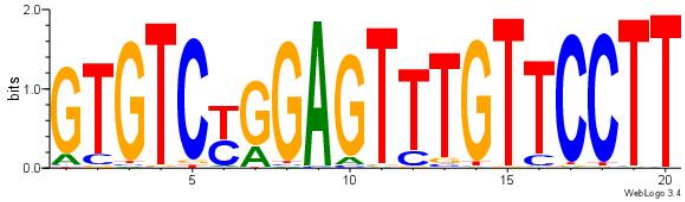

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.137501

Alignment:

```
CTGGGCRACAGAGYRAGACY
AGGAGCGCCTCTKCCCGGC-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

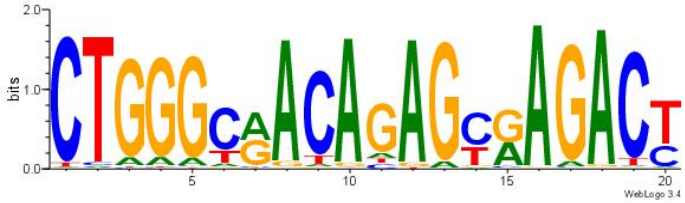

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

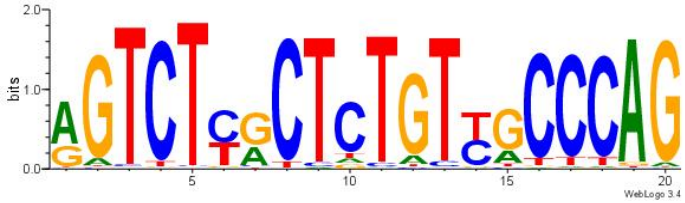

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138864

Alignment:

```
TACCTGAGACTGGGTAATTT
-GCCGGGRAGAGGCGCTCCT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

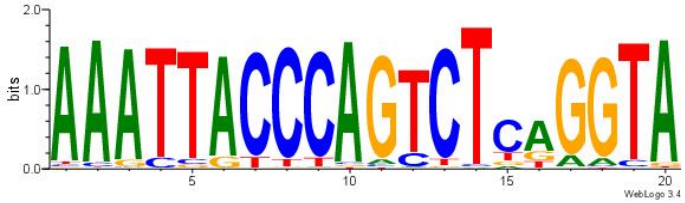

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

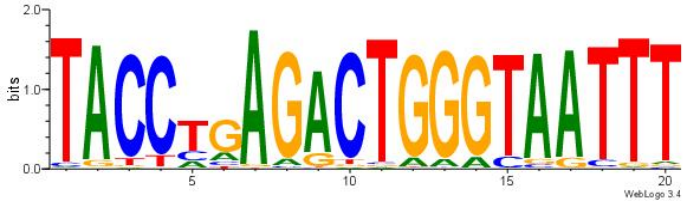

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.140716

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCCGGGRAGAGGCGCTCCT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

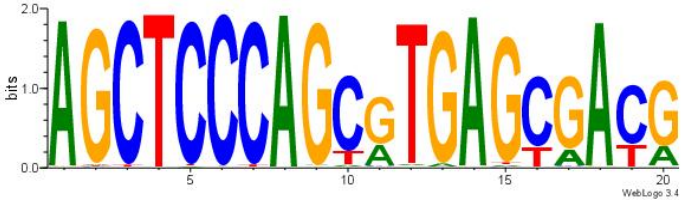

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

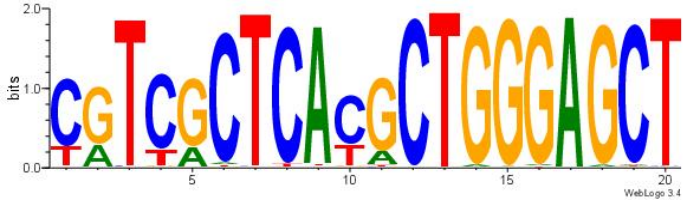

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140961

Alignment:
AAAAGTCCACAGTCCAAAGT
AGGAGCGCCTCTKCCCGGC-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

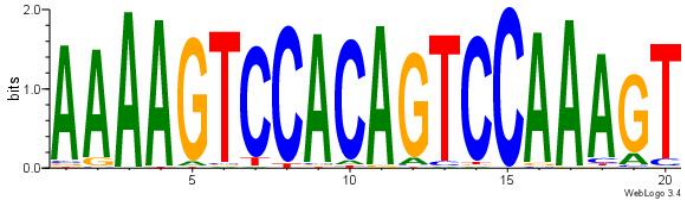

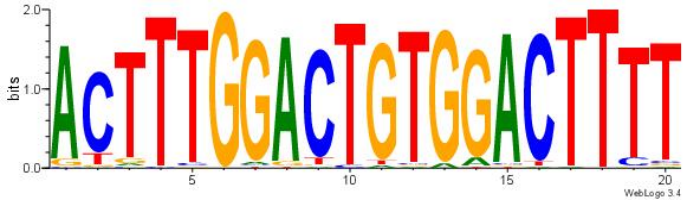

Dataset #: 1 **Motif ID: 31** **Motif name: Motif 31**

Original motif Consensus sequence: CCGTGCGCGAGCCG

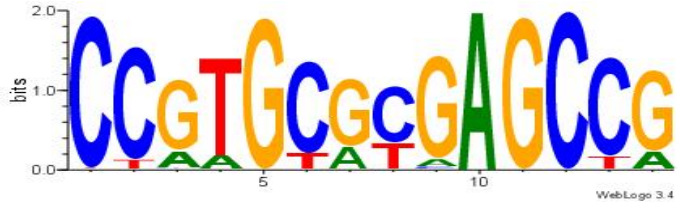

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

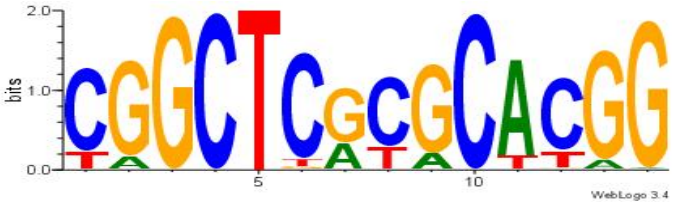

Best Matches for Motif ID 31 (Highest to Lowest)

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0706247

Alignment:

```
TTGGAGGTTCTAGCAGGG
----CGGCTCGCGCACGG
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

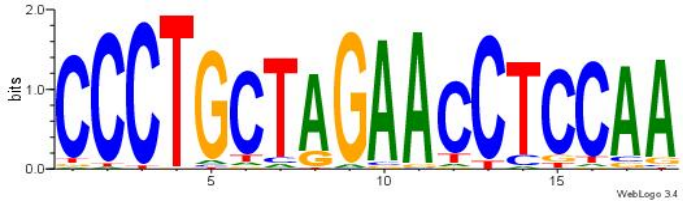

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

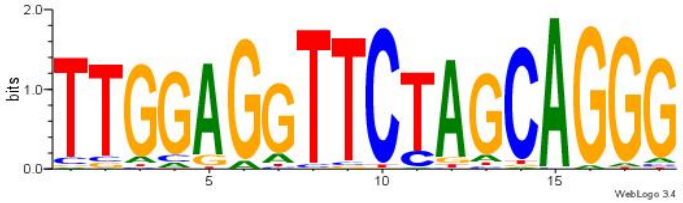

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0742371

Alignment:

```
AGCTCCCAGCGTGAGCGACG
----CCGTGCGCGAGCCG--
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

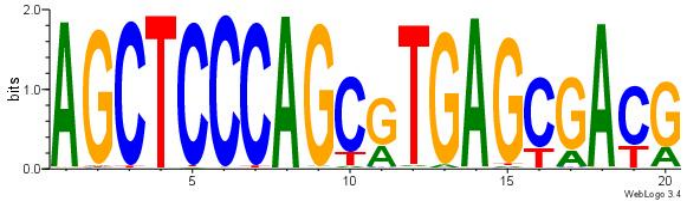

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

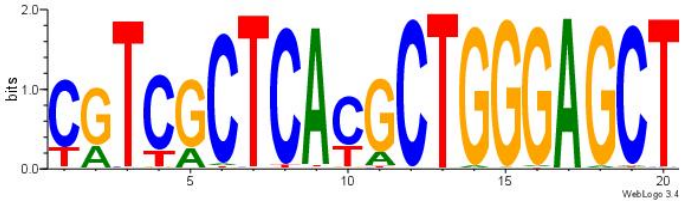

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0791073

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-CCGTGCGCGAGCCG-----
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

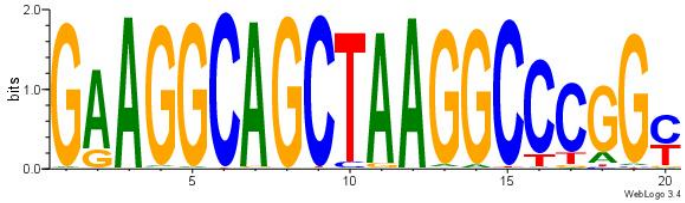

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

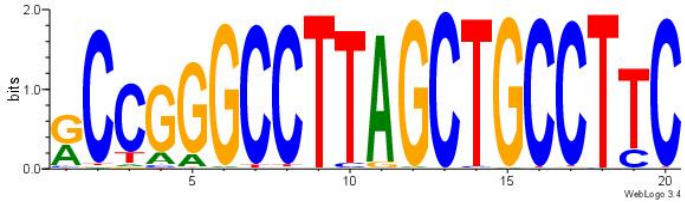

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0804139

Alignment:
GCGMGCGGGAACCGGGGCT
CCGTGCGCGAGCCG-----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

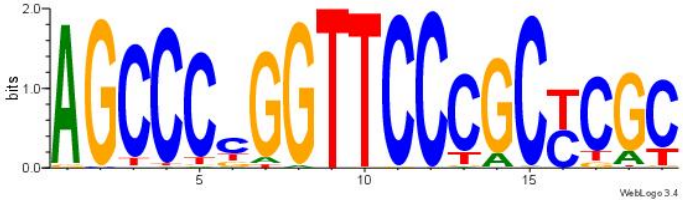

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

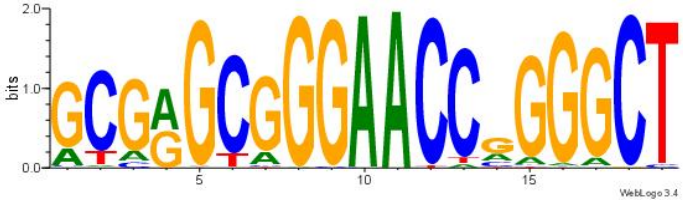

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0852899

Alignment:
GGAGCCGGCTCCCTCAGCTT
-----CGGCTCGCGCACGG-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

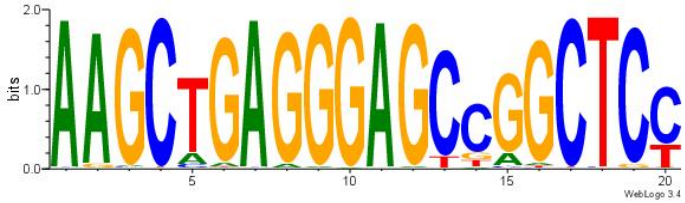

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

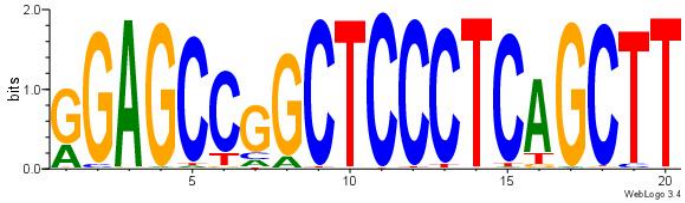

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0864973

Alignment:

```
CCGCTGCACTGTGGGAGCCC
------CCGTGCGCGAGCCG
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

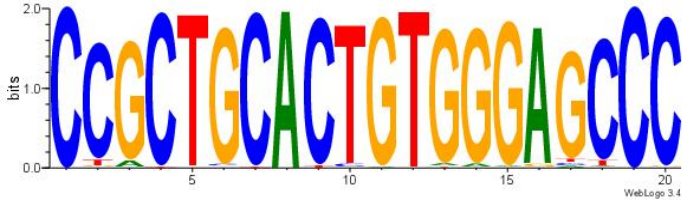

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

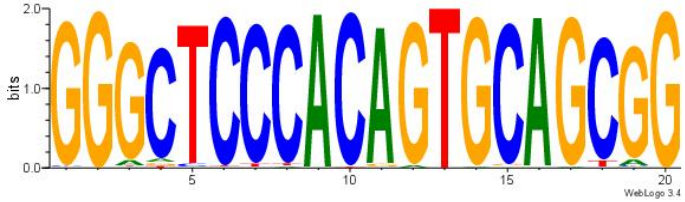

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0913619

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
------CCGTGCGCGAGCCG
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

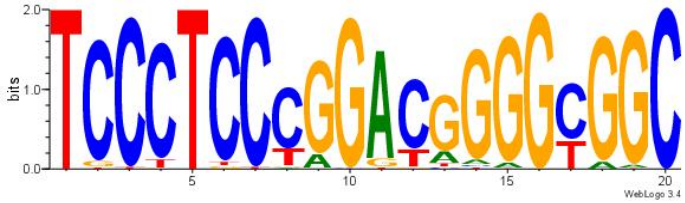

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

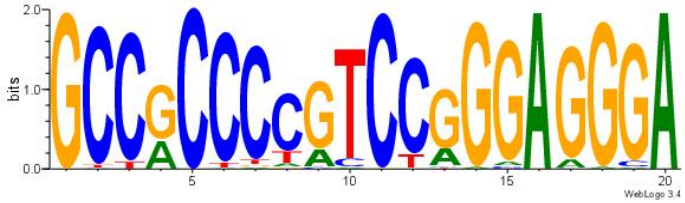

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 14
Similarity score: 0.0934127

Alignment:
ACCCYGTCTGGGAGGTG
---CCGTGCGCGAGCCG

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

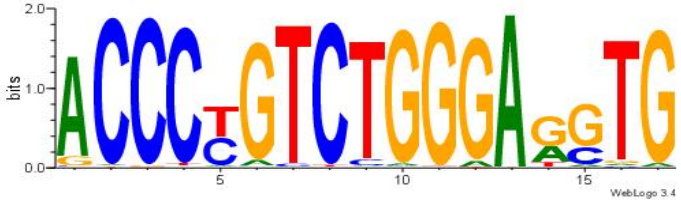

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

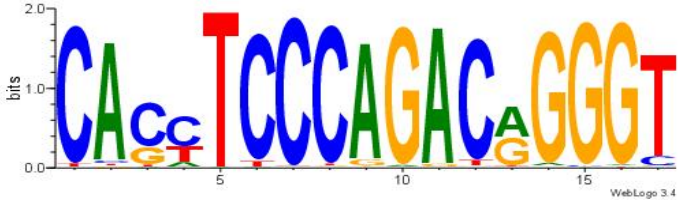

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0947913

Alignment:
GCCTCCTTGAGCTGTGGTGG
CCGTGCGCGAGCCG------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

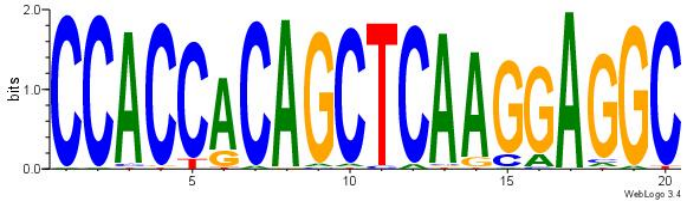

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

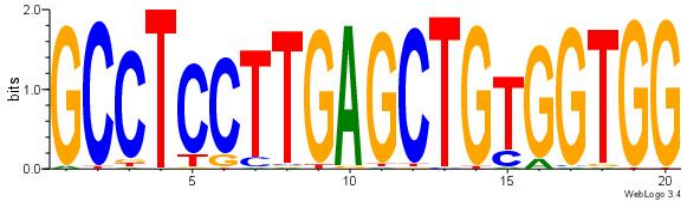

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0961375

Alignment:

```
ACAGGCTGTCCCAGGATTC
--CGGCTCGCGCACGG---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

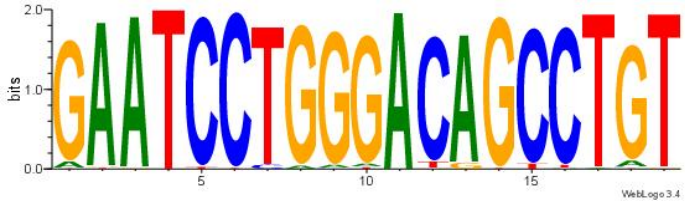

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

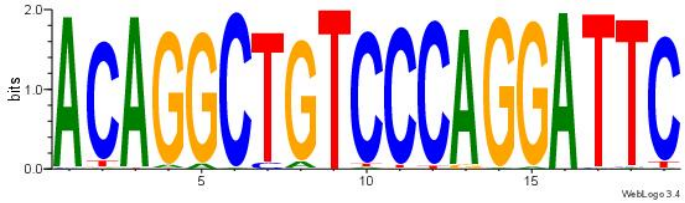

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0966397

Alignment:

```
AAGCTCGAACTGGGTGGAGC
CGGCTCGCGCACGG------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

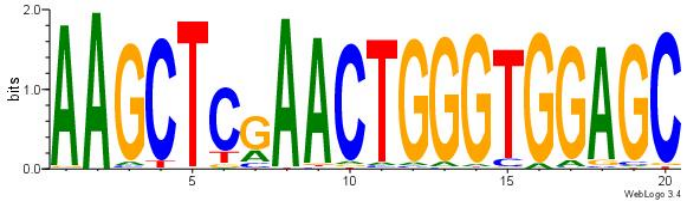

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

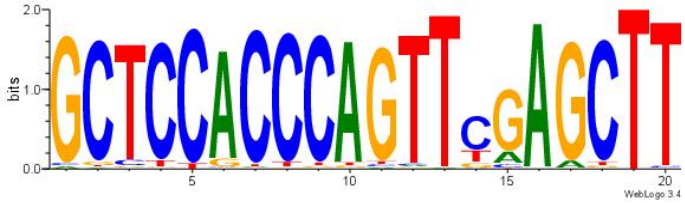

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0970846

Alignment:
CACTTCCCAGACGGGGCG
----CGGCTCGCGCACGG

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

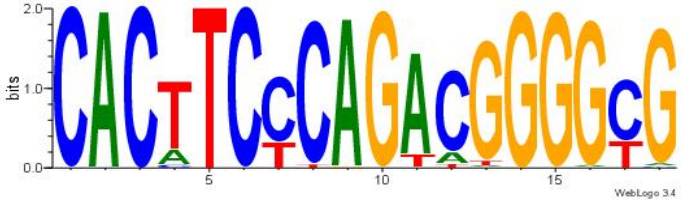

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

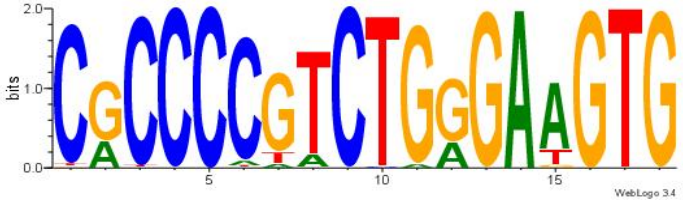

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.100173

Alignment:
CGCGGCGCTTGCGGGCCAGC
--CGGCTCGCGCACGG----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

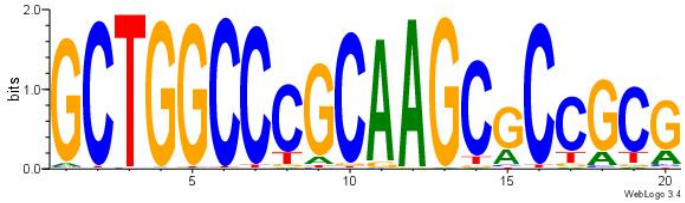

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

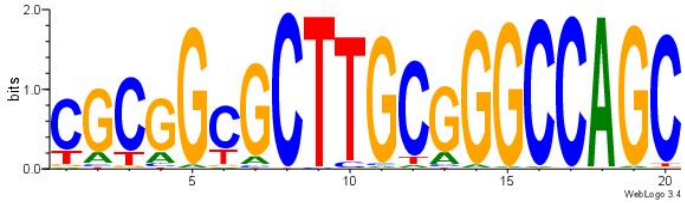

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.100948

Alignment:

```
AGCCTCCAGAACTGT
CGGCTCGCGCACGG-
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

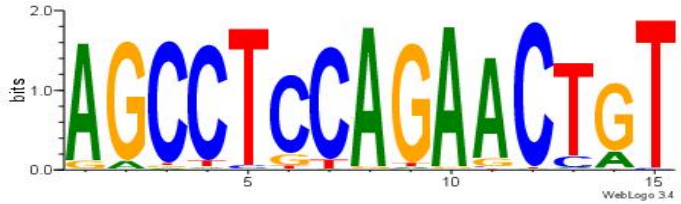

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.102009

Alignment:

```
AGGAGCGCCTCTKCCCGGC
CGGCTCGCGCACGG-----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

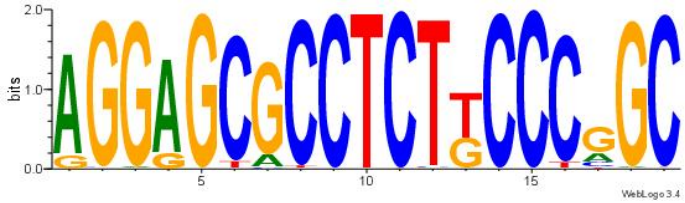

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

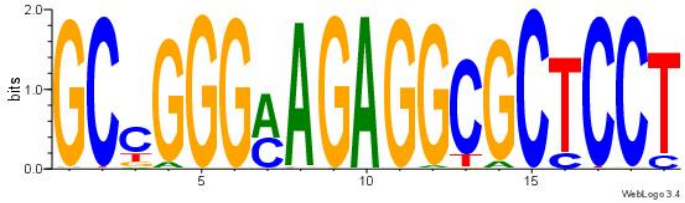

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 14
Similarity score: 0.102231

Alignment:
AGTTCCGGGTGGGCGTGGG
----CCGTGCGCGAGCCG-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

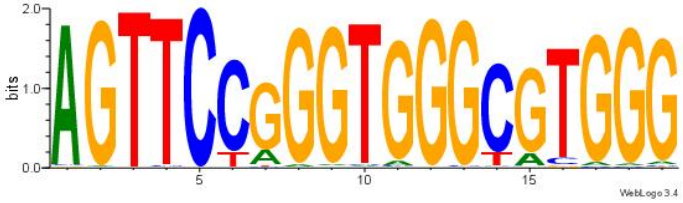

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

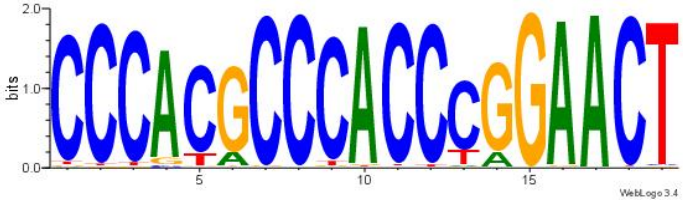

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.102606

Alignment:
CTCCTGCCTCAGCCTCCCRA
-CCGTGCGCGAGCCG-----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

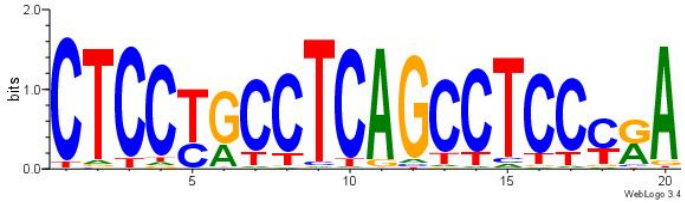

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

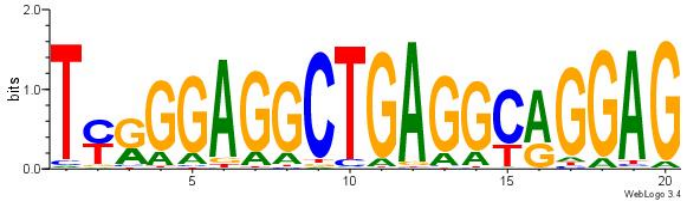

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.1035

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
CGGCTCGCGCACGG------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

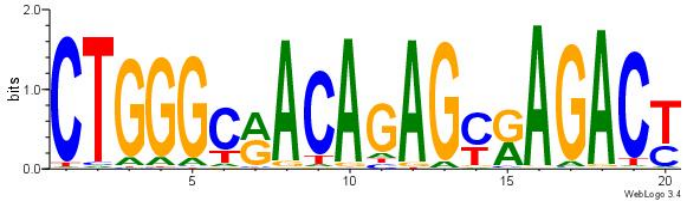

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

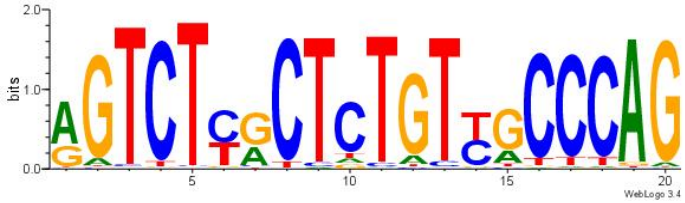

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.105002

Alignment:

```
AGAGTCTCACTCTGT
CGGCTCGCGCACGG-
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

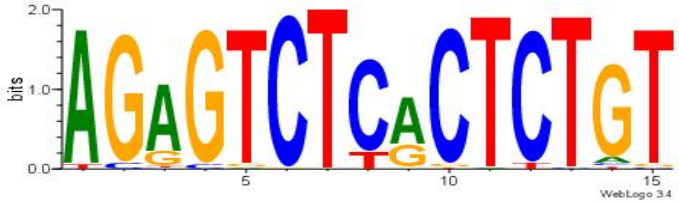

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

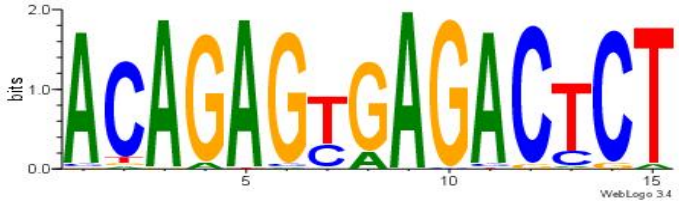

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.105237

Alignment:
CCTGCCATTGCYSAGGCTTG
----CCGTGCGCGAGCCG--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

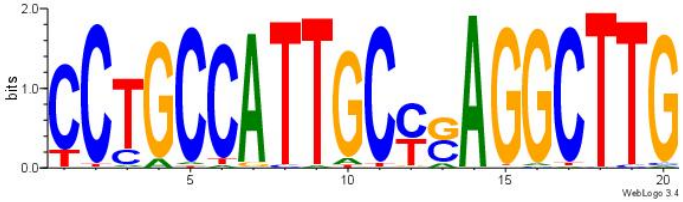

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

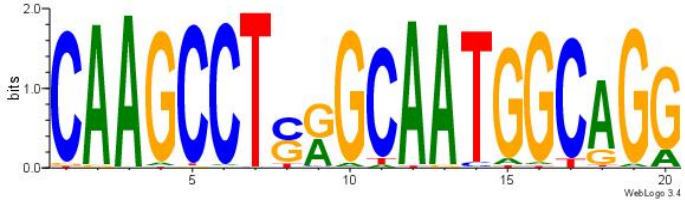

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.106487

Alignment:
CGAGCCTCCCCGAYGAGCGC
--CGGCTCGCGCACGG----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

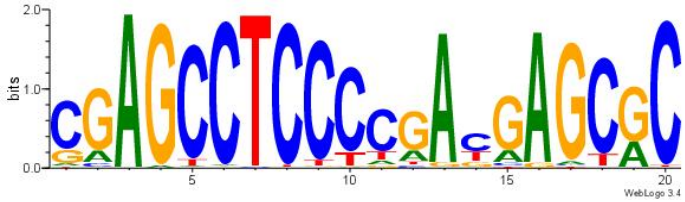

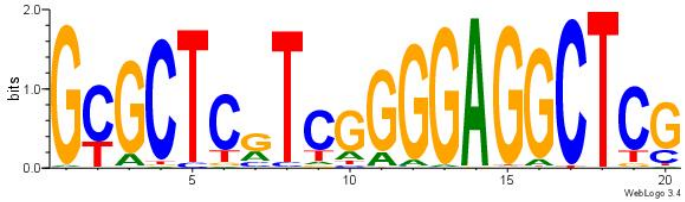

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.10679

Alignment:

```
AACCCTATTGTGAACTGYG
---CCGTGCGCGAGCCG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

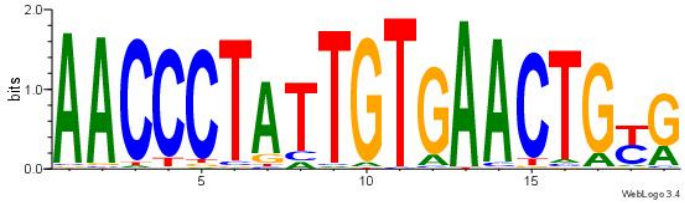

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

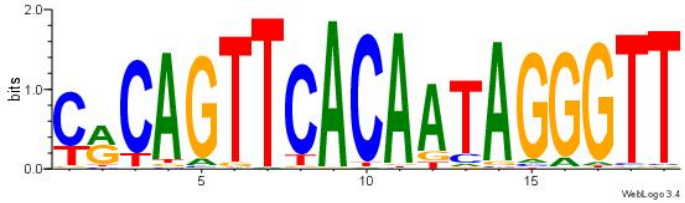

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.108037

Alignment:

```
AGAGCTCTGGCTGGCATCT
-CGGCTCGCGCACGG----
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

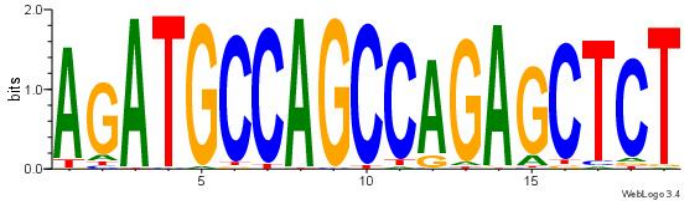

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

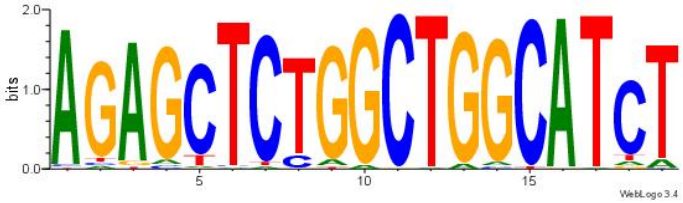

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.108498

Alignment:
AGGCTGTTTTACAGTTAAC
CGGCTCGCGCACGG-----

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

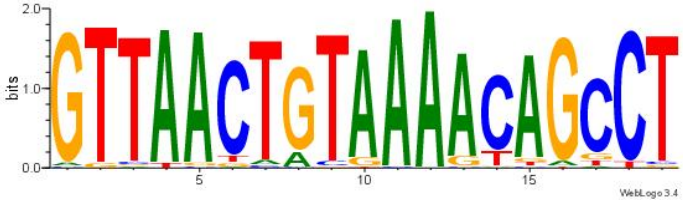

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

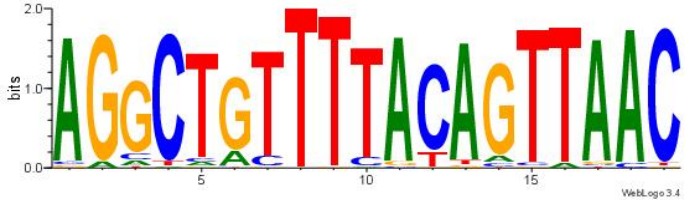

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.108513

Alignment:
GGCACTGCTGGGGGACCCAG
----CGGCTCGCGCACGG--

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

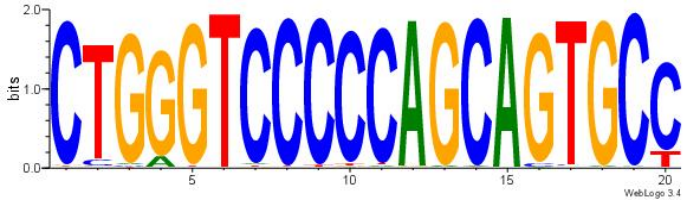

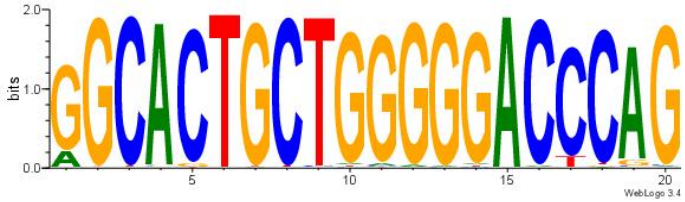

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109429

Alignment:

```
GCACTGAGTGAACGA
-CCGTGCGCGAGCCG
```

Original motif Consensus sequence: GCACTGAGTGAACGA

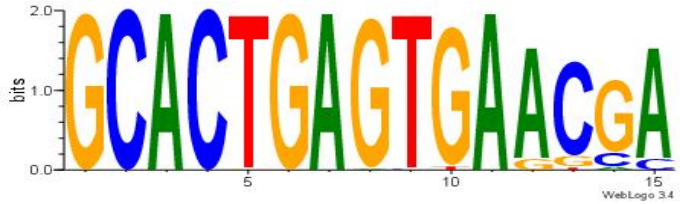

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

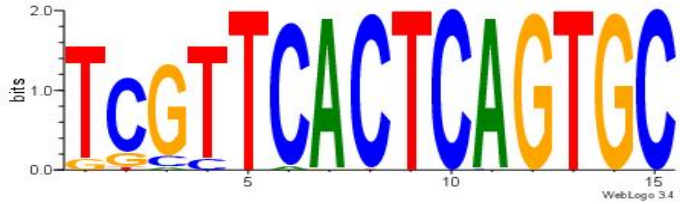

Dataset #:	1
Motif ID:	128

Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109621

Alignment:

```
CMGCTCCGAGTGCGG
-CGGCTCGCGCACGG
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

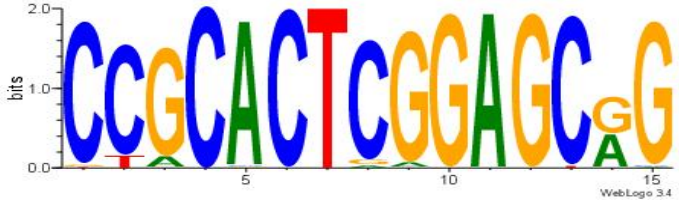

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

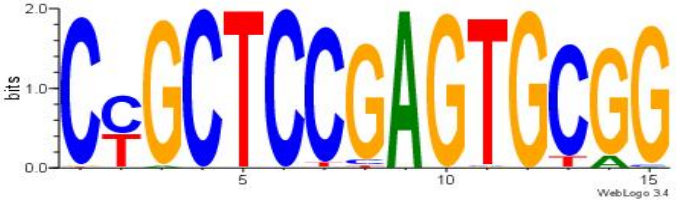

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109851

Alignment:
GCGGCTGGCCGGGCG
-CGGCTCGCGCACGG

Original motif Consensus sequence: CGCCCGGCCAGCCGC

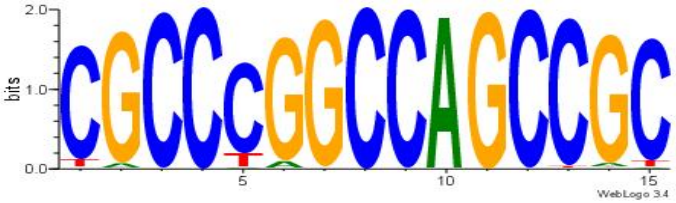

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

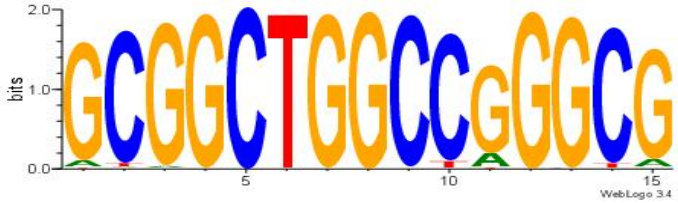

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.11038

Alignment:
AGACAGTGGGYGCAGGHCA
--CGGCTCGCGCACGG---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

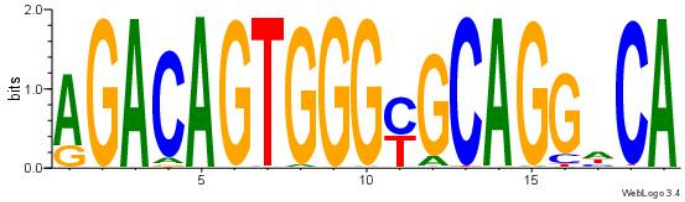

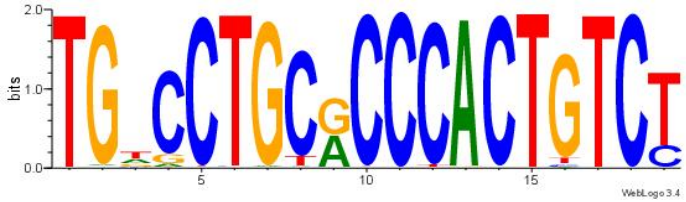

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.110815

Alignment:

```
GGTGCCCCTCTGGGACRAA
----CGGCTCGCGCACGG-
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

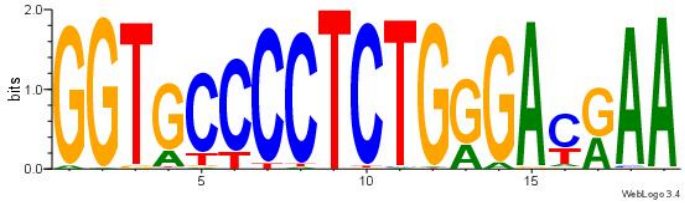

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

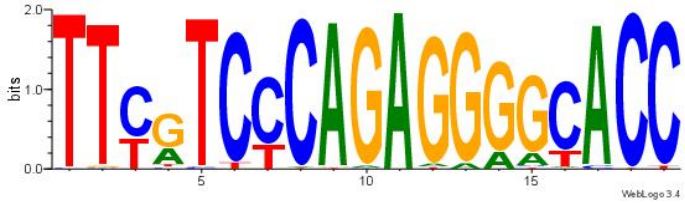

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.11163

Alignment:

```
GTCCCATCGACCACCCAAG
---CCGTGCGCGAGCCG--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

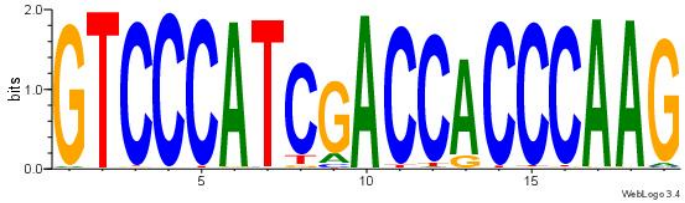

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

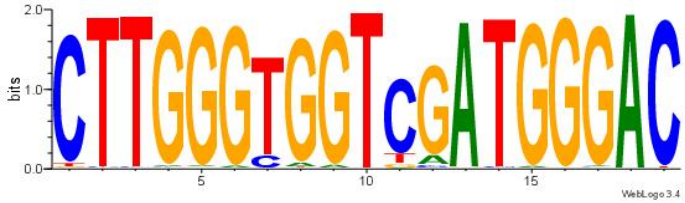

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.113022

Alignment:
CTGACTGGGAGACACCTCCC
CCGTGCGCGAGCCG------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

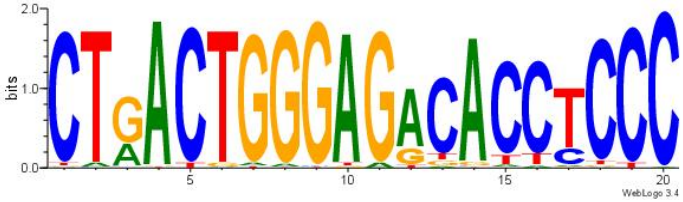

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

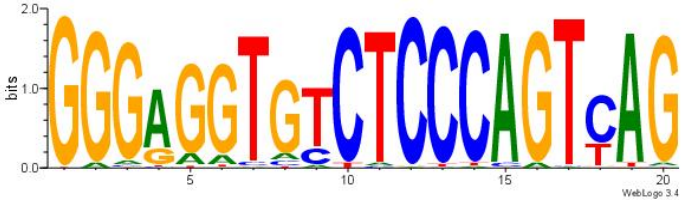

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.113089

Alignment:
CCCGAAGCTGCRYRCTCGGT
-----CGGCTCGCGCACGG-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

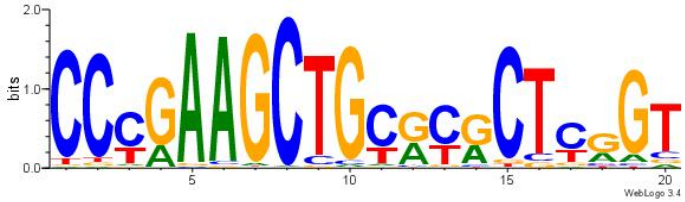

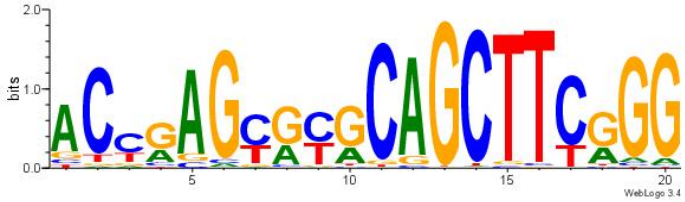

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.113277

Alignment:

```
CGCCCATCGTCTGGGATGT
CGGCTCGCGCACGG-----
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

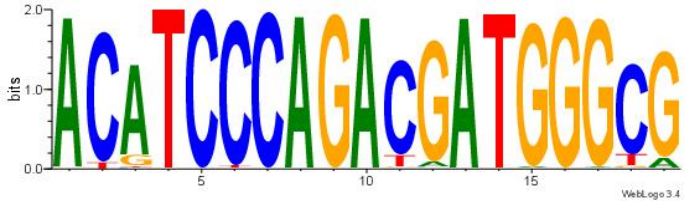

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

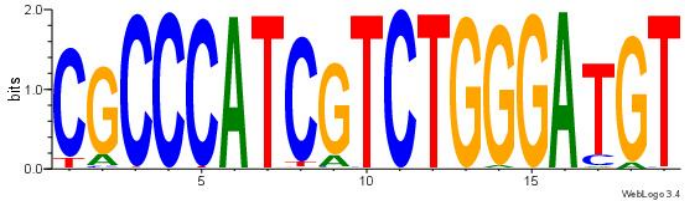

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.113765

Alignment:

```
CCCMKGGCACCCTCAGTCCT
--CCGTGCGCGAGCCG----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

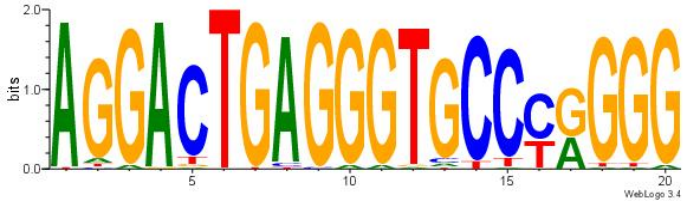

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

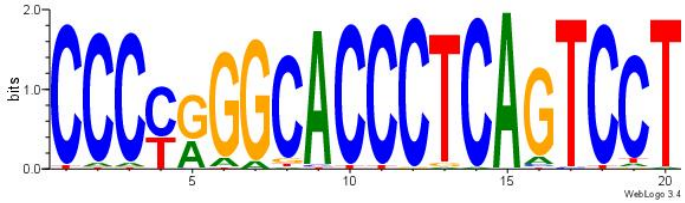

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.114304

Alignment:
AGGCCCCAGTGTSTGTTGTT
----CCGTGCGCGAGCCG--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

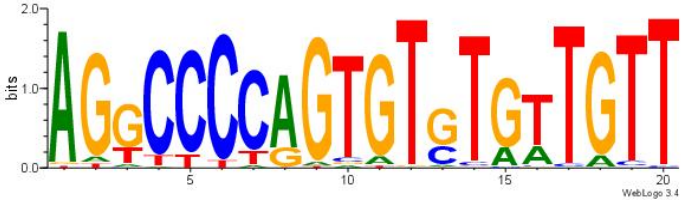

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

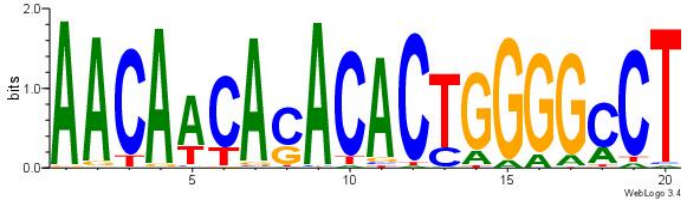

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.115101

Alignment:
CAAGGGTATAYGAGTAGCTG
---CCGTGCGCGAGCCG---

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

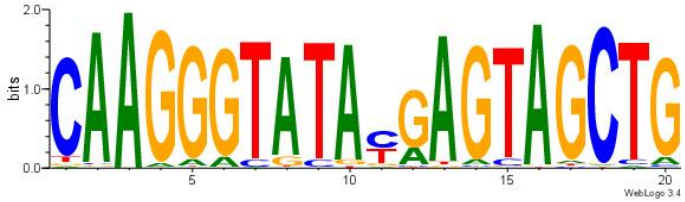

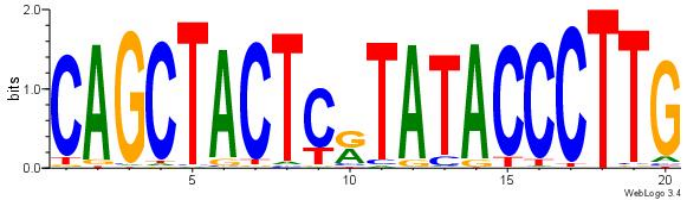

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.115675

Alignment:
AGGASCSTCYSWGCCMGGY
CGGCTCGCGCACGG-----

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

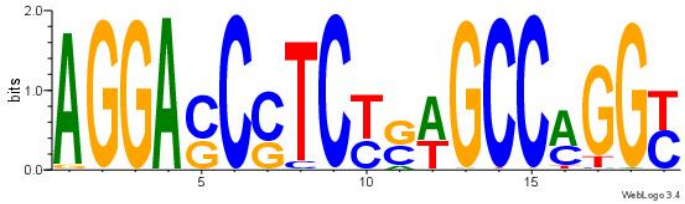

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

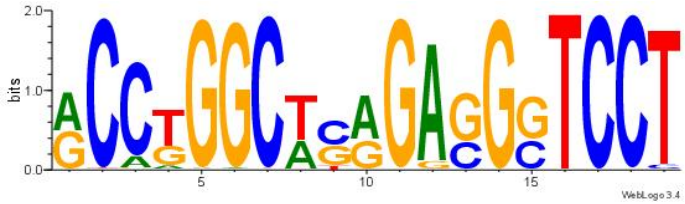

Dataset #: 1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.116197

Alignment:

```
KACGGGCTTAARAAACGGC
---CGGCTCGCGCACGG--
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

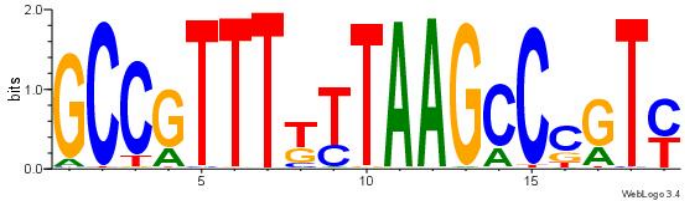

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

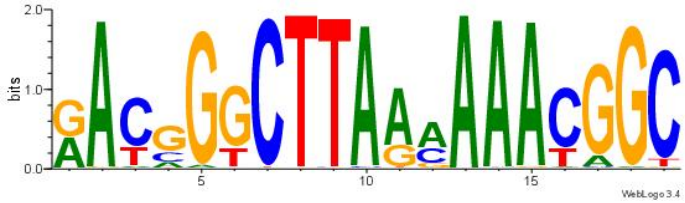

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.116241

Alignment:
CCTTGGCCAGCCCAGAAAG
---CGGCTCGCGCACGG--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

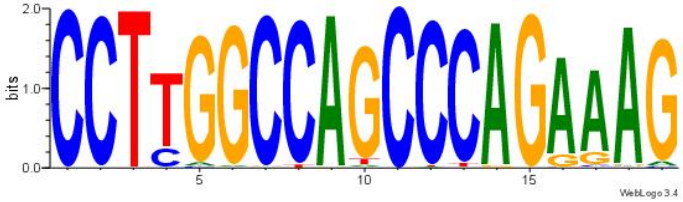

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

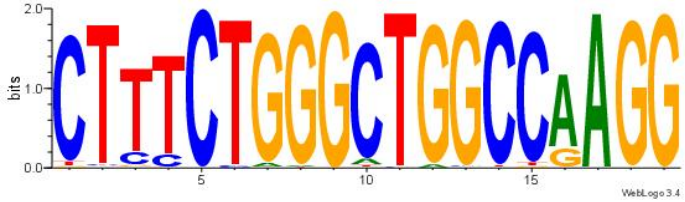

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.116244

Alignment:
AAGCAGGGCGAGGCATTGCC
-CCGTGCGCGAGCCG-----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

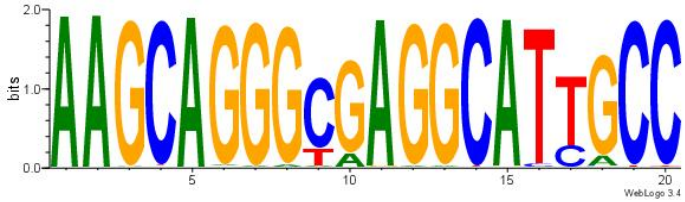

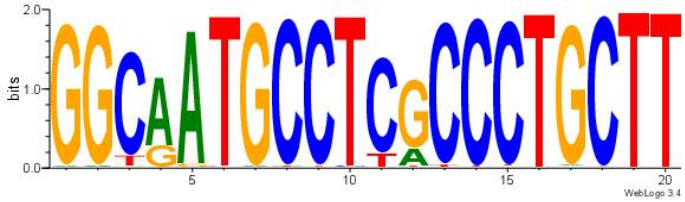

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.116257

Alignment:

```
GGTGGGGGGGTCAGCCCCC
---CCGTGCGCGAGCCG--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

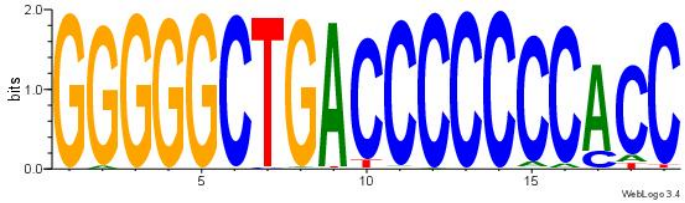

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

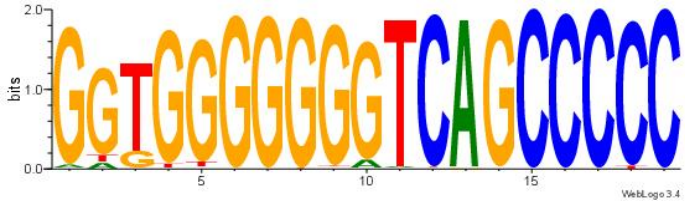

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.116326

Alignment:

```
CCCATGCAAGTCYRAAATCC
-CCGTGCGCGAGCCG-----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

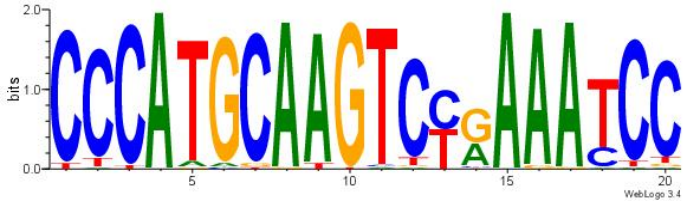

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

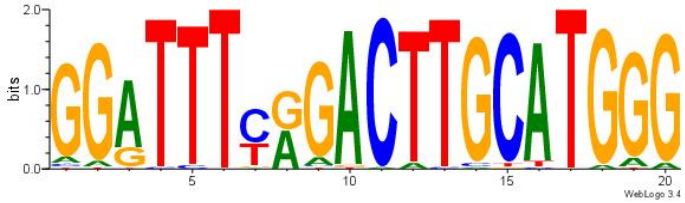

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.116376

Alignment:
ATTAGCYRGGCRTGGTGGC
-----CCGTGCGCGAGCCG

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

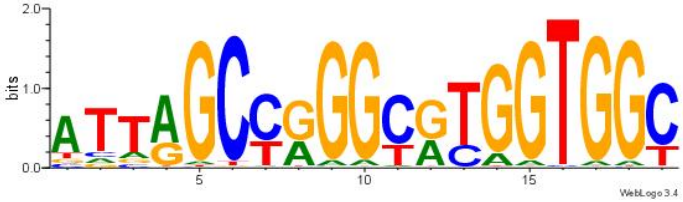

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

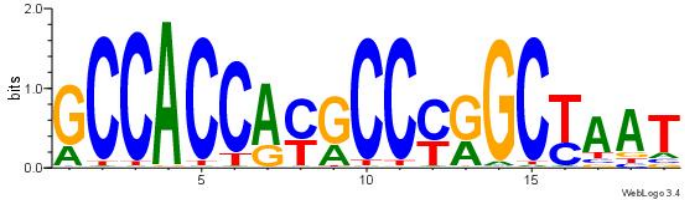

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.116543

Alignment:
KKCACCTTGATCTTGGACTT
--CGGCTCGCGCACGG----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

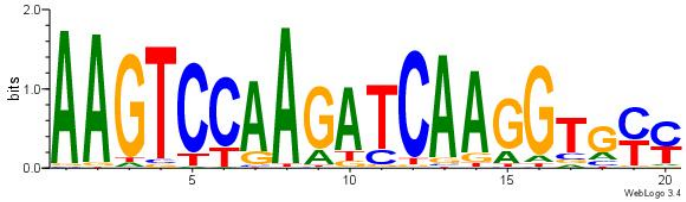

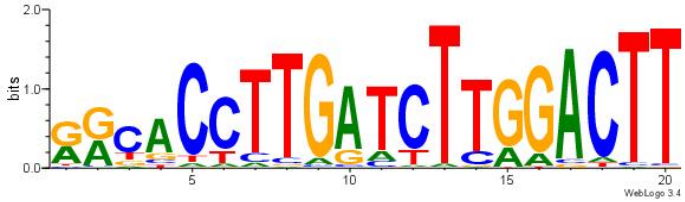

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.117796

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-CCGTGCGCGAGCCG-----
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

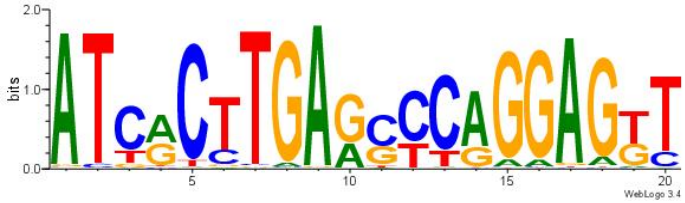

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

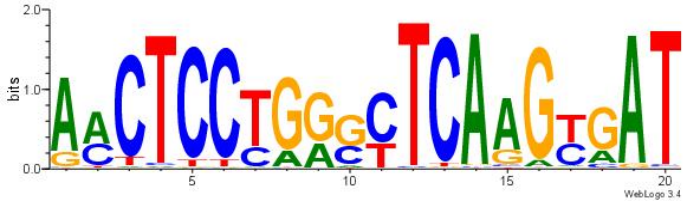

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.117799

Alignment:

```
ATGATCCAGCAATYCCACTH
------CGGCTCGCGCACGG
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

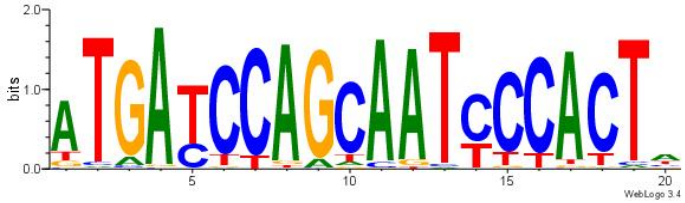

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

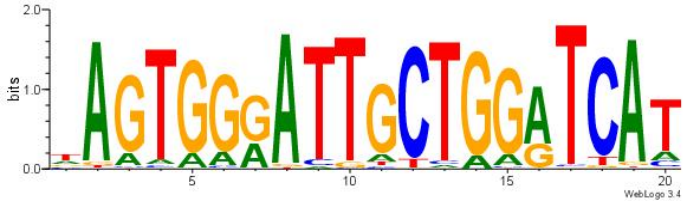

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.117833

Alignment:
ATCTGACAGGAGGYRGAGCT
-CCGTGCGCGAGCCG-----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

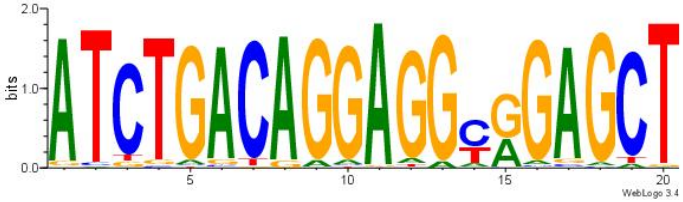

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

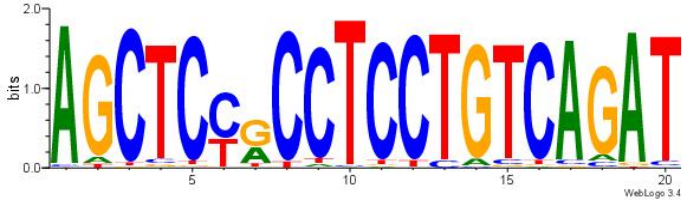

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.118478

Alignment:
CTTGCCCAAGGTCACACAGC
-----CGGCTCGCGCACGG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

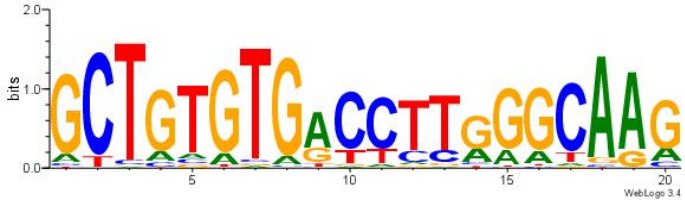

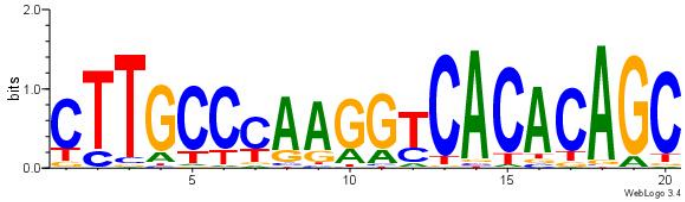

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.118624

Alignment:

```
GCTTAGCACCYGGGCCAGC
---CCGTGCGCGAGCCG--
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

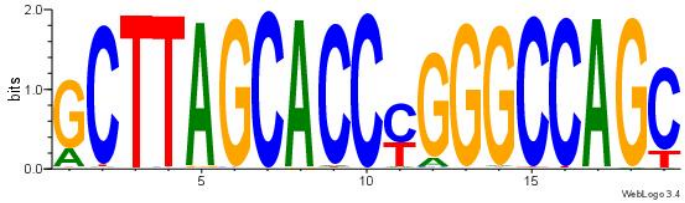

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

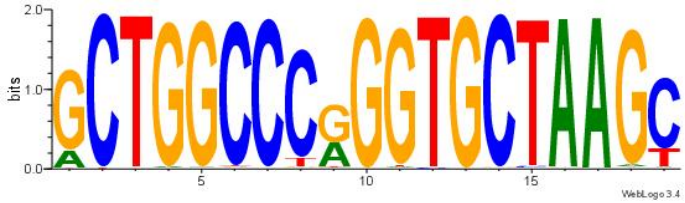

Dataset #: 1 Motif ID: 32 Motif name: Motif 32

Original motif Consensus sequence: ATGGTGAAACCC

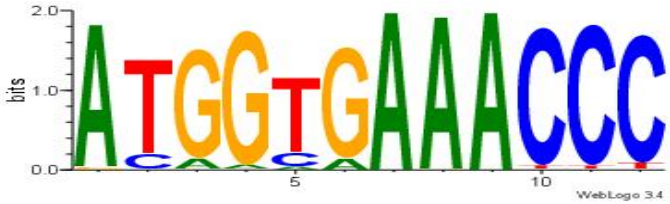

Reverse complement motif Consensus sequence: GGGTTTCACCAT

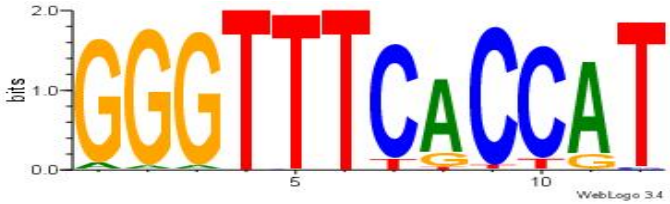

Best Matches for Motif ID 32 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0712132

Alignment:

```
TGGCTTCACCCAGTGGATCC
GGGTTTCACCAT--------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

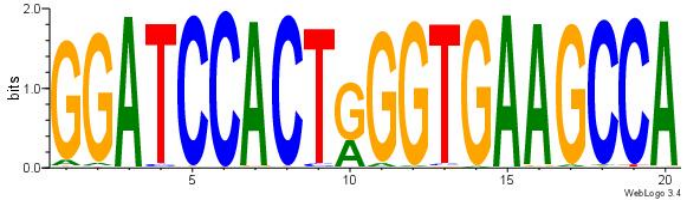

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

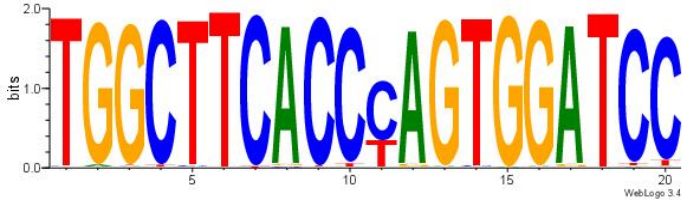

Dataset #:	1
Motif ID:	204
Motif name:	Motif 204
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0785008

Alignment:

```
AGAGYRAGACTCC
ATGGTGAAACCC-
```

Original motif Consensus sequence: AGAGYRAGACTCC

Reverse complement motif Consensus sequence: GGAGTCTMKCTCT

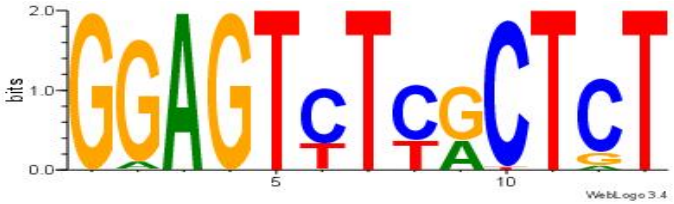

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0802664

Alignment:
AGAGTCTCACTCTGT
-GGGTTTCACCAT--

Original motif Consensus sequence: AGAGTCTCACTCTGT

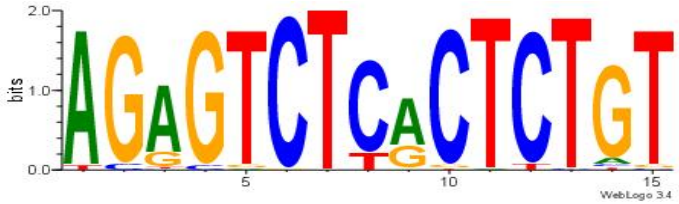

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

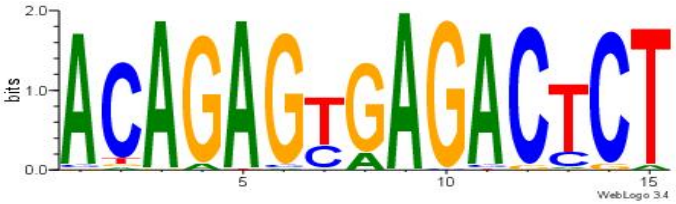

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0852091

Alignment:
CCCATGCAAGTCYRAAATCC
--------ATGGTGAAACCC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

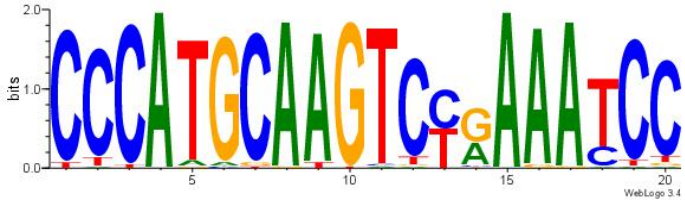

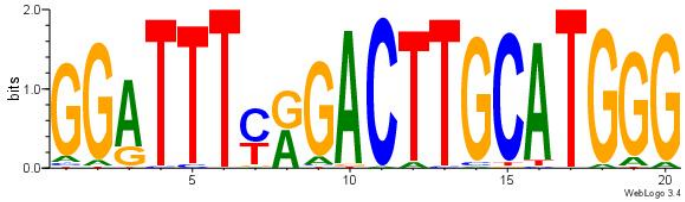

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0877995

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-------GGGTTTCACCAT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

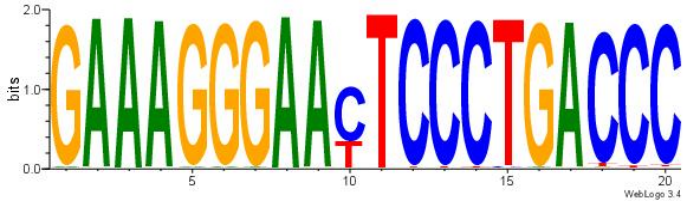

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

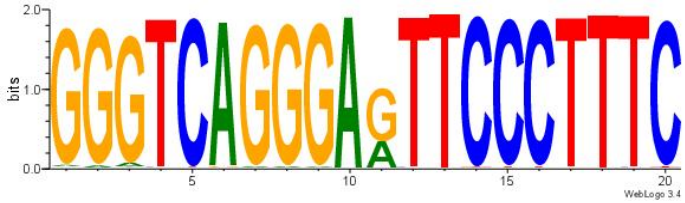

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0915249

Alignment:

```
GKCTGTACCCCCATTGTAT
--GGGTTTCACCAT-----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

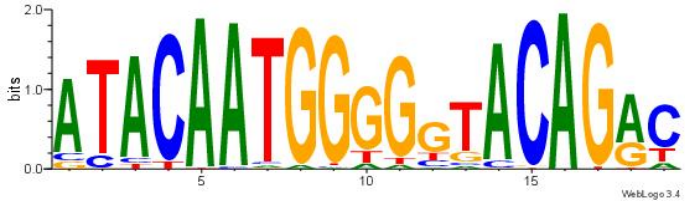

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

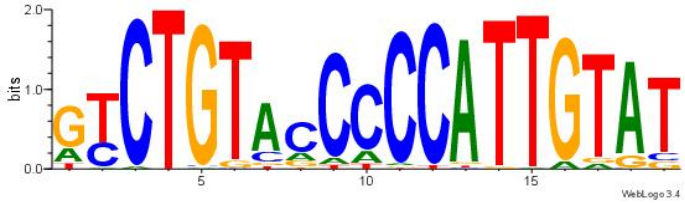

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0921788

Alignment:
GACAGGAGATTAACACTGAG
-----GGGTTTCACCAT---

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

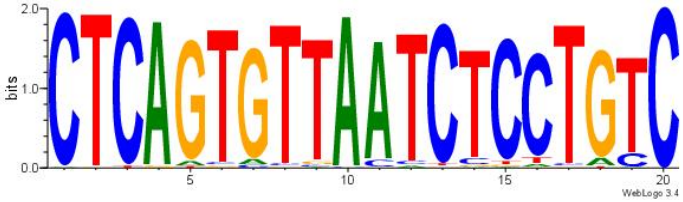

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

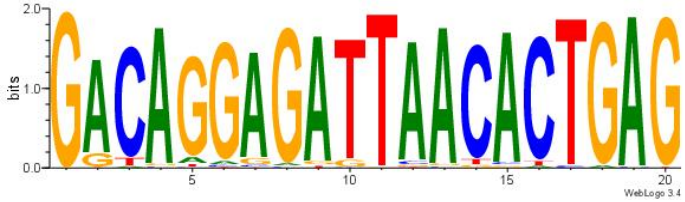

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.09249

Alignment:
AAGTCTCCCAATTACAACT
GGGTTTCACCAT-------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

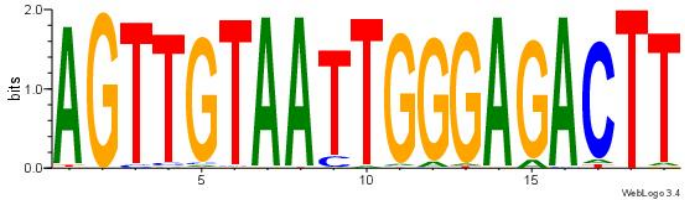

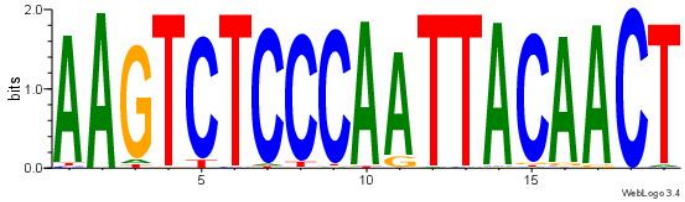

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0928686

Alignment:

```
TTTGGTGCACCCATCA
-ATGGTGAAACCC---
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

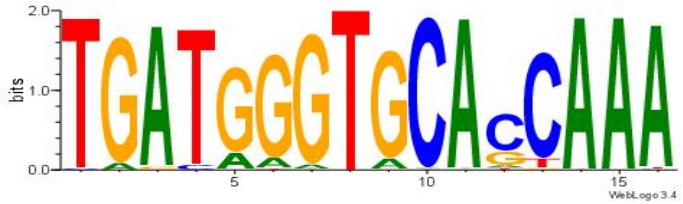

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

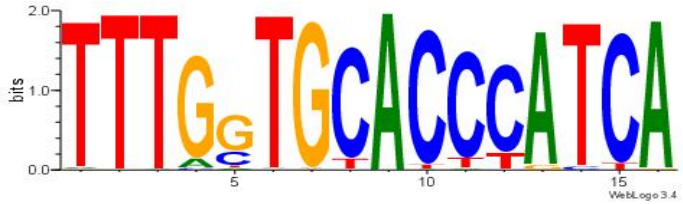

Dataset #:	1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0929694

Alignment:

```
AACCCTATTGTGAACTGYG
------ATGGTGAAACCC-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

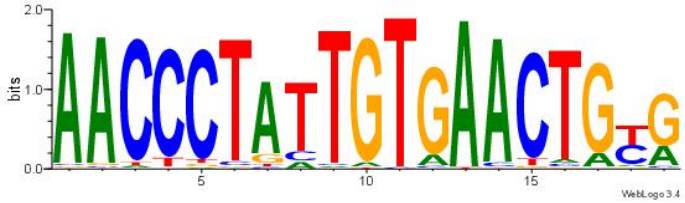

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

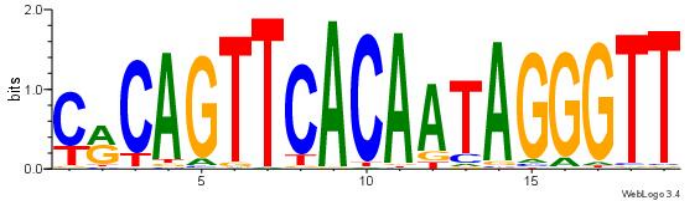

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.0943078

Alignment:
CAAGTTGACACATAAAATTA
-ATGGTGAAACCC-------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

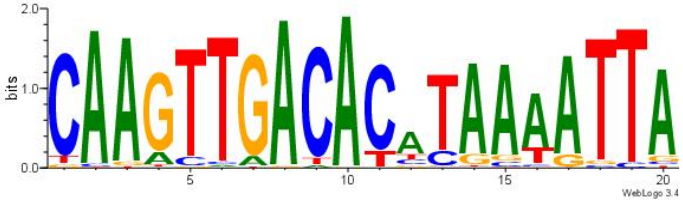

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

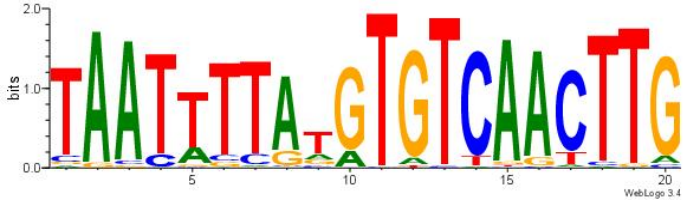

Dataset #: 1
Motif ID: 168
Motif name: Motif 168
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0943944

Alignment:
GGTGGGAGAAATACCT
--ATGGTGAAACCC--

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

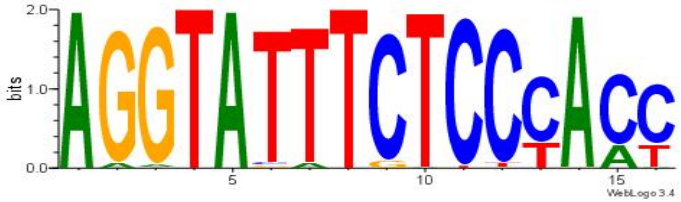

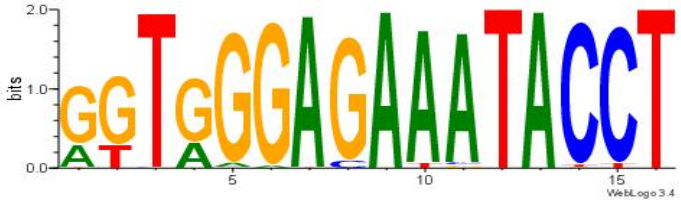

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0955069

Alignment:

```
ACAAGGCAAGTCCCTTCY
--ATGGTGAAACCC----
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

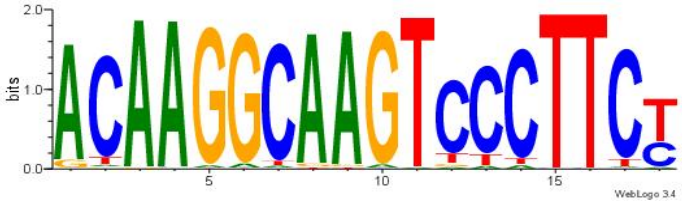

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

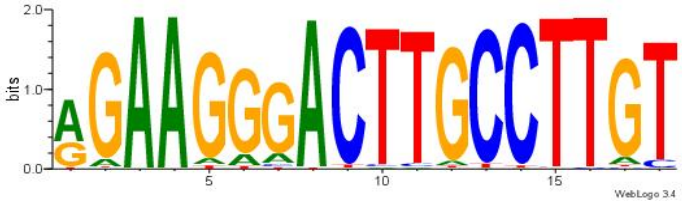

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0958059

Alignment:

```
TCAATGGGCTCCCAAATG
-----GGGTTTCACCAT-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

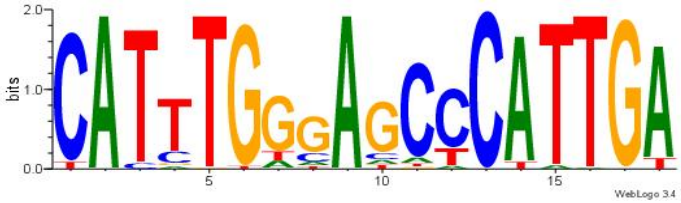

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

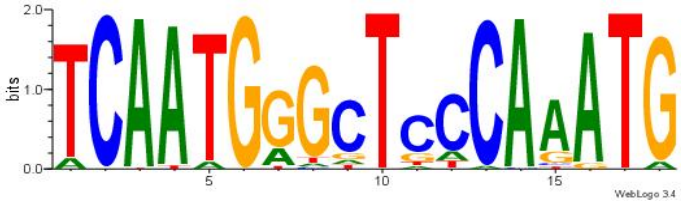

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.096053

Alignment:
CCCTGCTAGAACCTCCAA
--ATGGTGAAACCC----

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

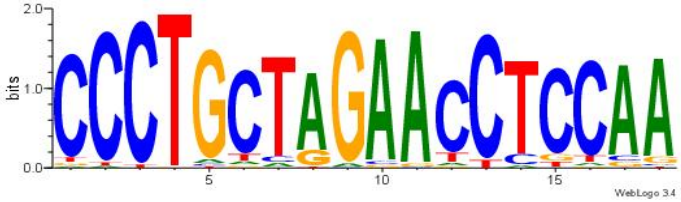

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

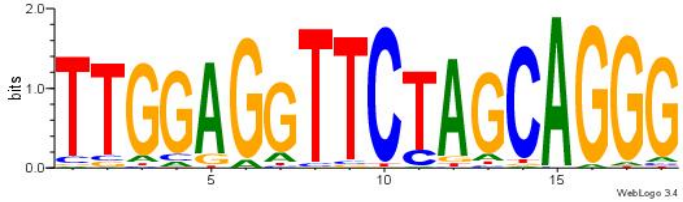

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0969511

Alignment:
GTTAACTGTAAAACAGCCT
----ATGGTGAAACCC---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

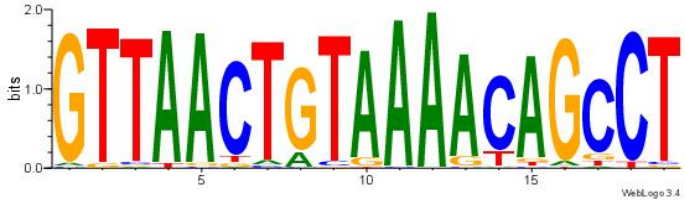

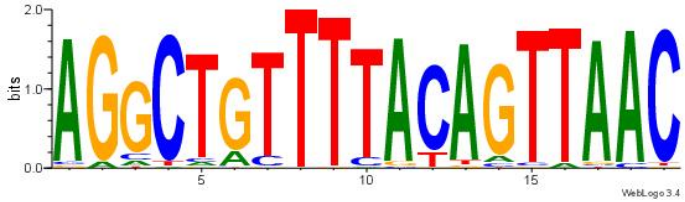

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0969852

Alignment:

```
GGGCTCCCACAGTGCAGCGG
GGGTTTCACCAT--------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

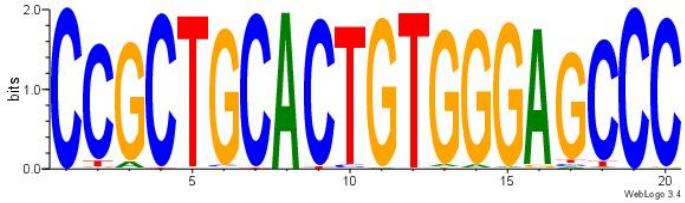

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

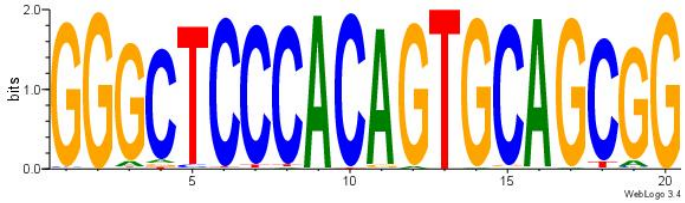

Dataset #: 1

Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0979219

Alignment:

```
AAATCTTAAAGCTC
--ATGGTGAAACCC
```

Original motif Consensus sequence: AAATCTTAAAGCTC

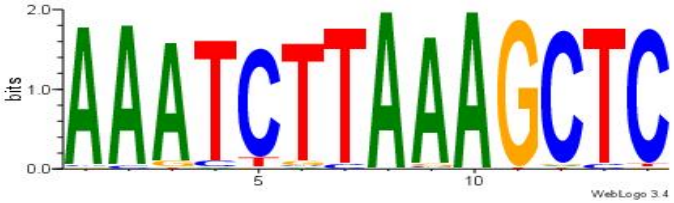

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

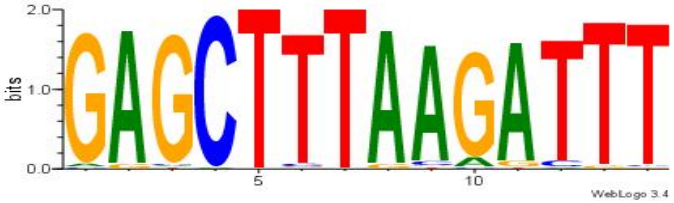

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.098078

Alignment:
GTGTCKGGAGTTTGTTCCTT
-------GGGTTTCACCAT-

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

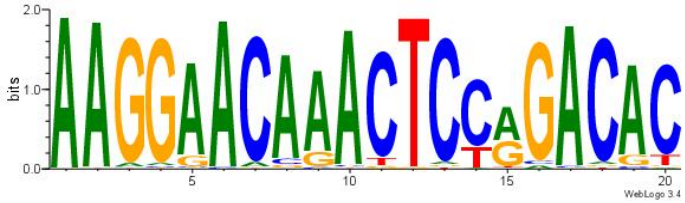

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

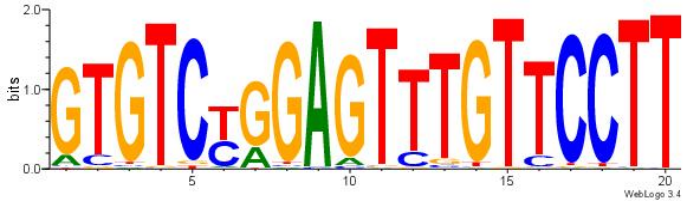

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.098677

Alignment:
CTGGGTCCCCCAGCAGTGCC
-GGGTTTCACCAT-------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

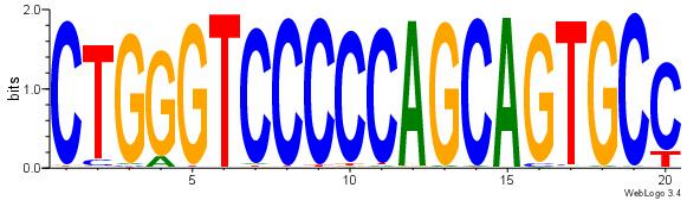

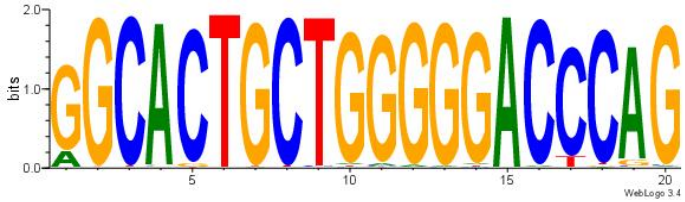

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0994632

Alignment:

```
ATTGGTGTATTTACAATCCC
-----GGGTTTCACCAT---
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

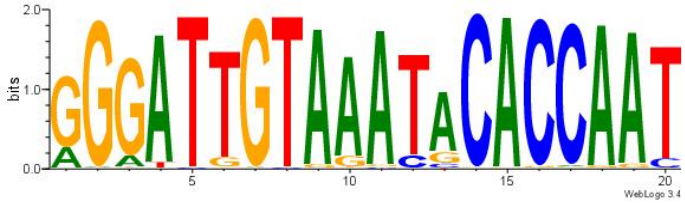

Dataset #: 1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0997186

Alignment:

```
GGTGGGGGGGTCAGCCCCC
-----GGGTTTCACCAT--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

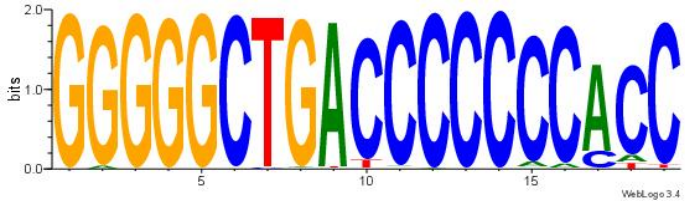

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

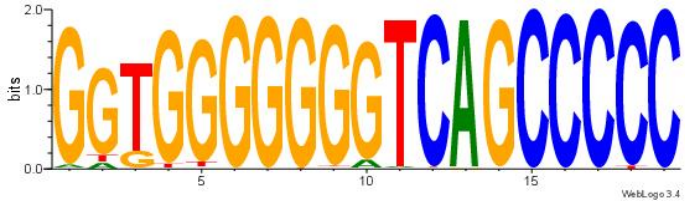

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0997206

Alignment:
ACTGTCTTCCACCTCCACAT
---GGGTTTCACCAT-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

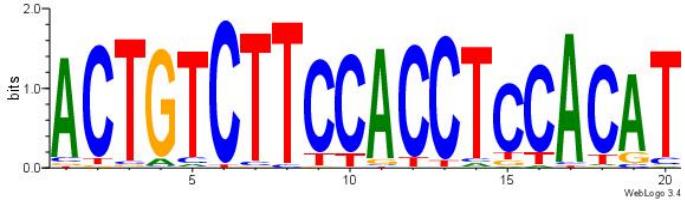

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

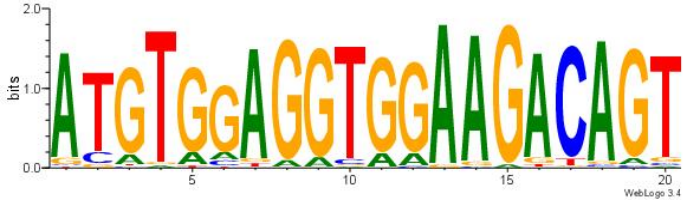

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.100195

Alignment:
CTGACTGGGAGACACCTCCC
-----ATGGTGAAACCC---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

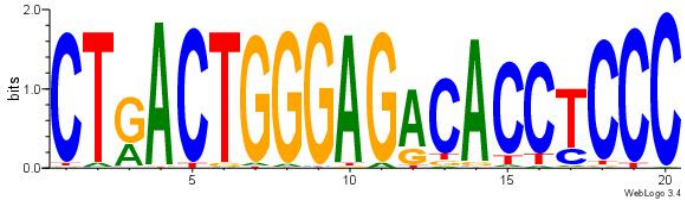

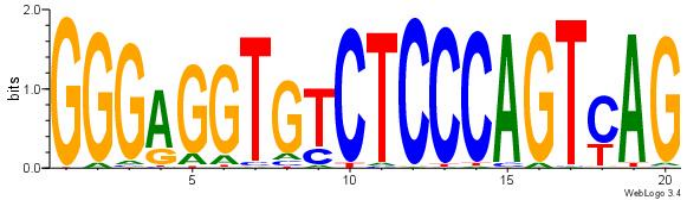

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.100253

Alignment:

```
TTGGTGGTCTCTTCACA
----GGGTTTCACCAT-
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

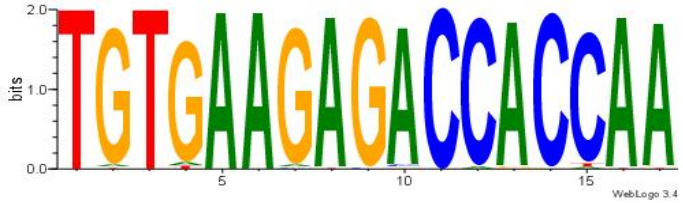

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

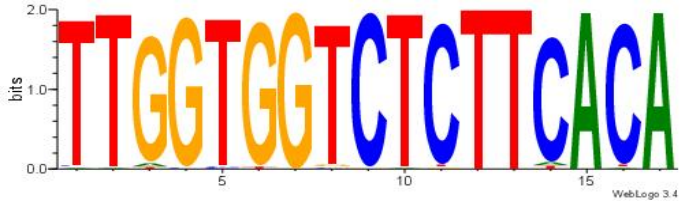

Dataset #: 1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.100434

Alignment:

```
TGGGGCTCCAGATG
-GGGTTTCACCAT-
```

Original motif Consensus sequence: CATCTGGAGCCCCA

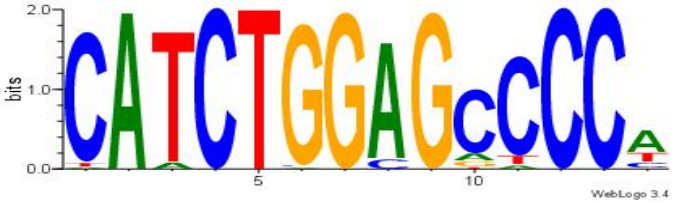

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

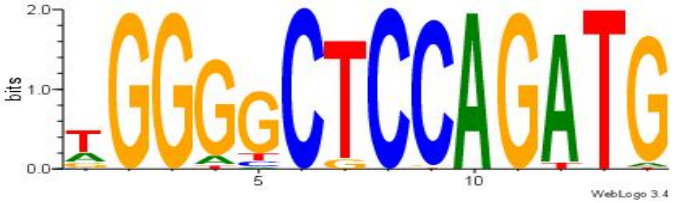

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.100496

Alignment:
AGTGTTTCCAAMCTGCT
-GGGTTTCACCAT----

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

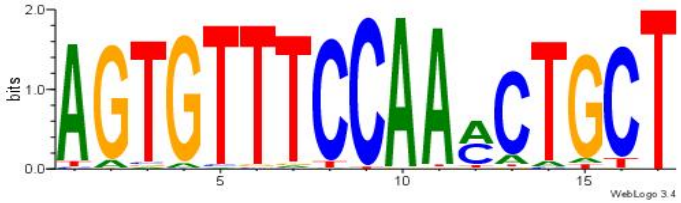

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

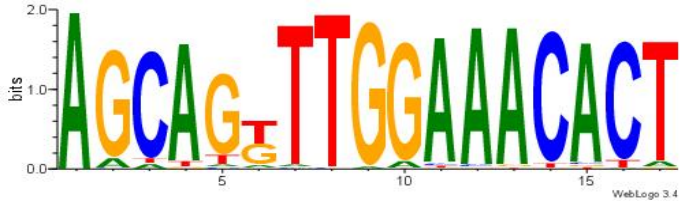

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.100586

Alignment:
TGGGCTGCCAGATG
-GGGTTTCACCAT-

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

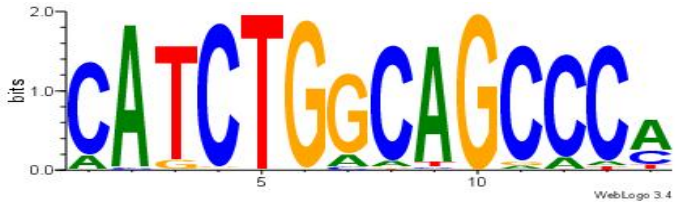

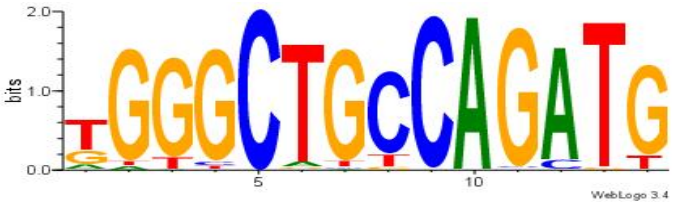

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.101029

Alignment:

```
GACTTCAAGAATGAAGCCG
-------ATGGTGAAACCC
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

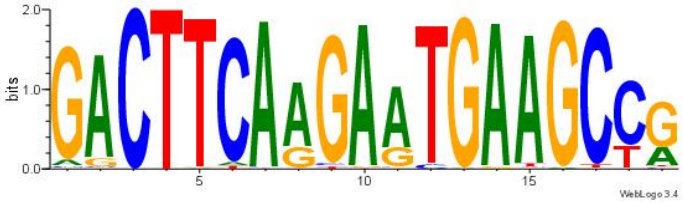

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

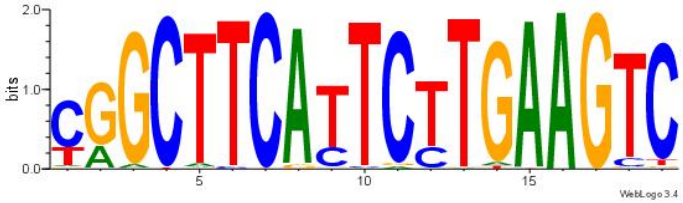

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.101509

Alignment:

```
TWTACCTATGTAACAAACCT
-------ATGGTGAAACCC-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

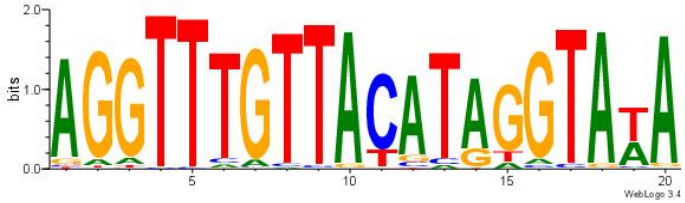

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

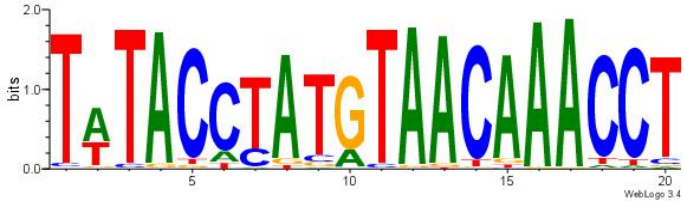

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.101527

Alignment:
TTGTTAAAAACTA
ATGGTGAAACCC-

Original motif Consensus sequence: TAGTTTTTAACAA

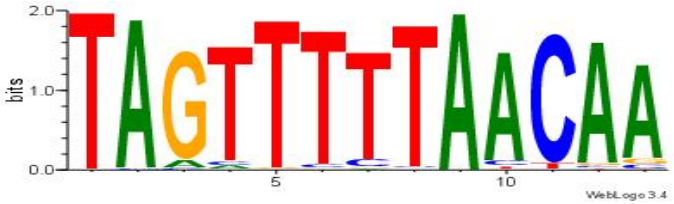

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

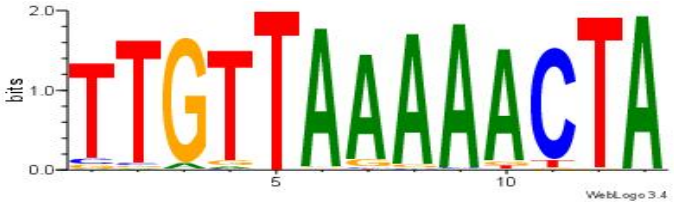

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.102475

Alignment:
GCAGCAMTATTCACAATAG
-----GGGTTTCACCAT--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

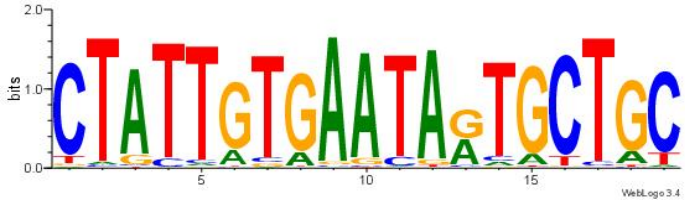

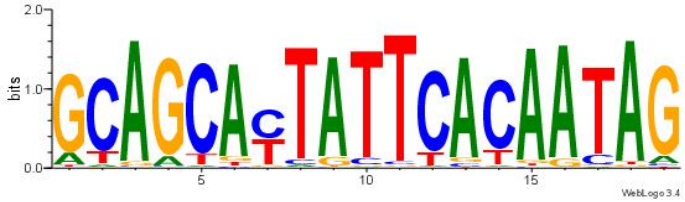

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.102804

Alignment:

```
ACATGCTACAACAT
--ATGGTGAAACCC
```

Original motif Consensus sequence: ACATGCTACAACAT

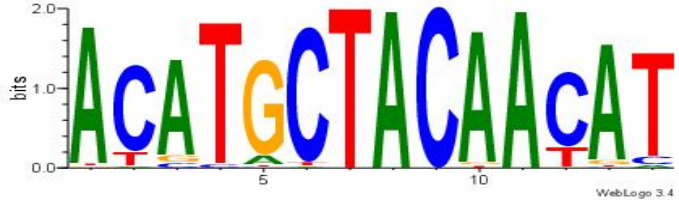

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

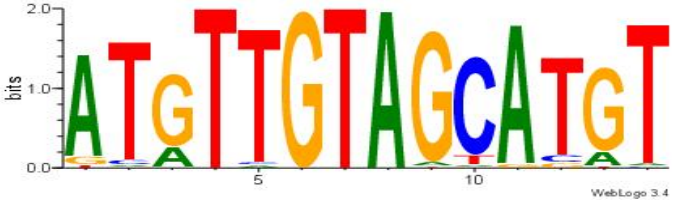

Dataset #:	1
Motif ID:	213

Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.104504

Alignment:

```
TGTATTAGTCMMTT
-GGGTTTCACCAT-
```

Original motif Consensus sequence: AAYRGACTAATACA

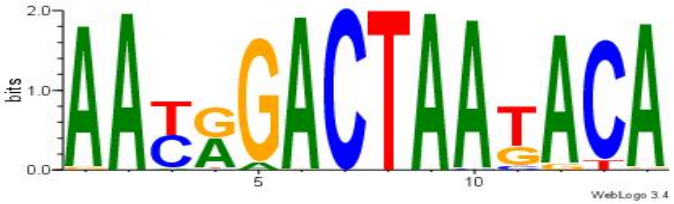

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

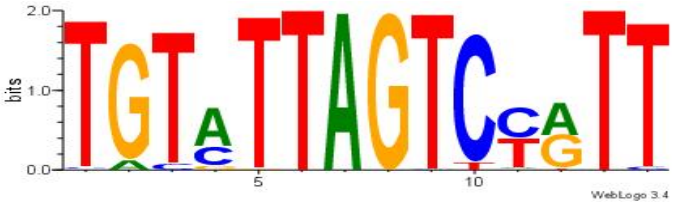

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.10511

Alignment:
GCCGTTTKTTAAGCCCGTY
----ATGGTGAAACCC---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

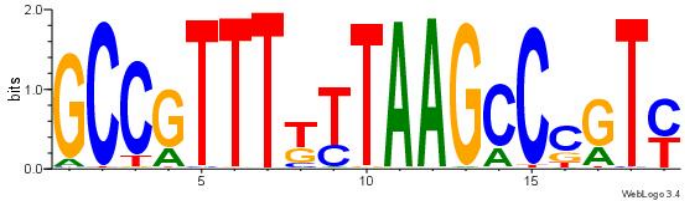

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

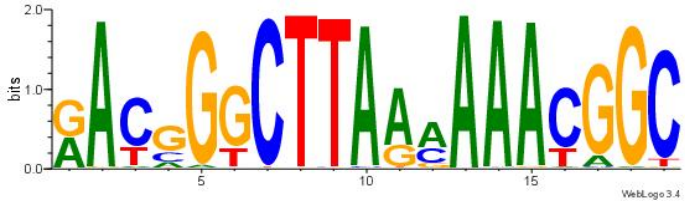

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.105471

Alignment:
AGCCCCGGTTCCCGCYCGC
-----GGGTTTCACCAT--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

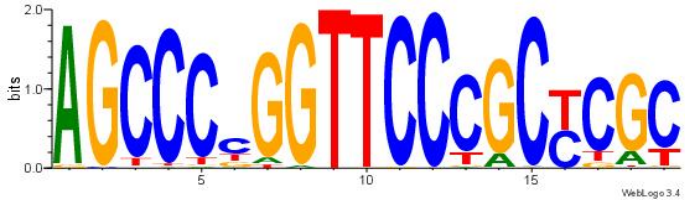

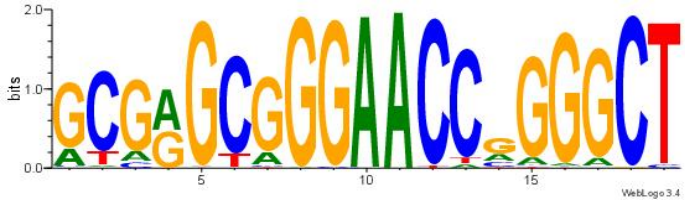

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.106011

Alignment:

```
CAGCTACTCKTATACCCTTG
-----ATGGTGAAACCC---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

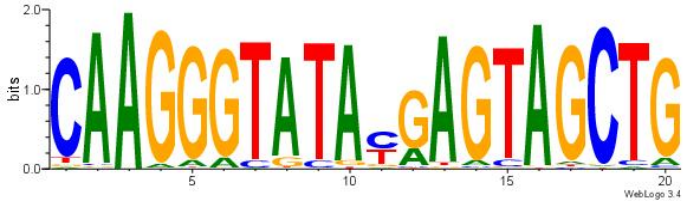

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

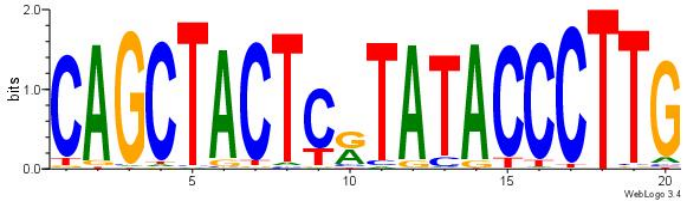

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.106235

Alignment:

```
HAGTGGKATTGCTGGATCAT
-----GGGTTTCACCAT---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

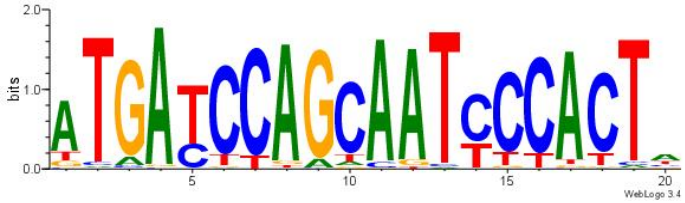

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

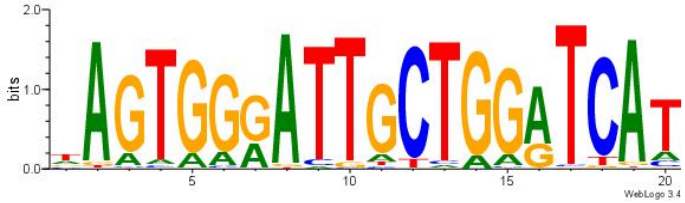

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.106616

Alignment:
MGTGTGATGTCTCCCCC
---ATGGTGAAACCC--

Original motif Consensus sequence: GGGGGAGACATCACACR

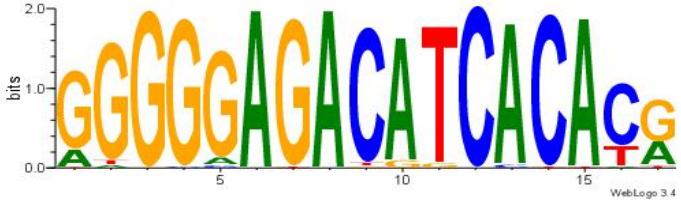

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

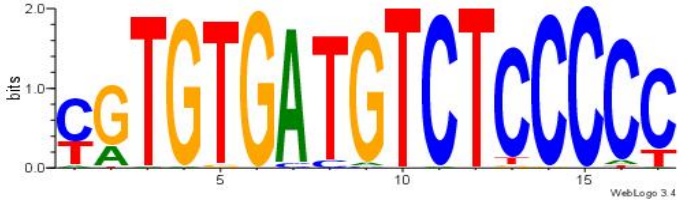

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.108305

Alignment:
CTTTCTGGGCTGGCCAAGG
------GGGTTTCACCAT-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

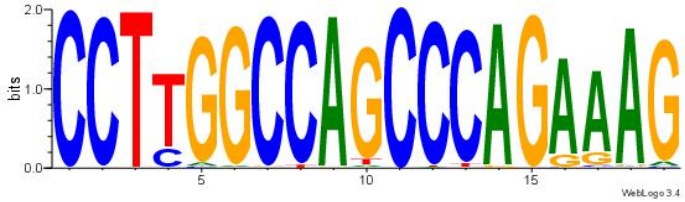

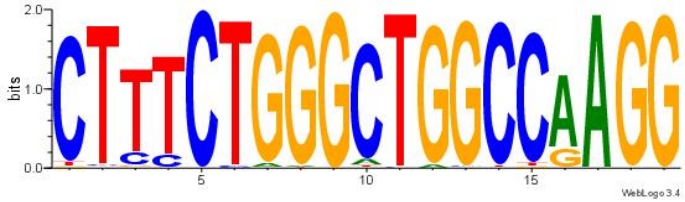

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.10861

Alignment:

```
GACCAMGAACCCA
-ATGGTGAAACCC
```

Original motif Consensus sequence: GACCAMGAACCCA

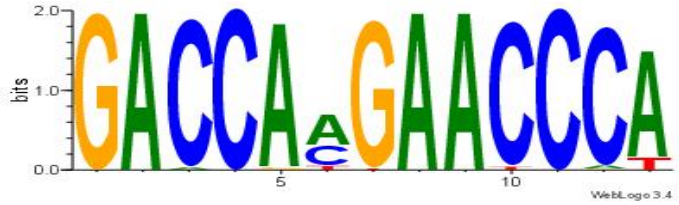

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

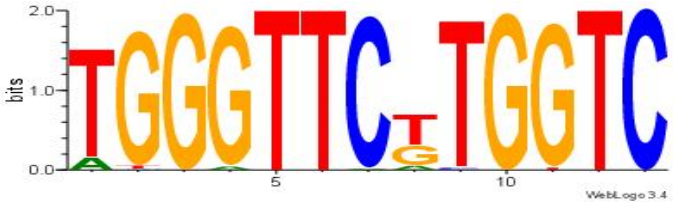

Dataset #:	1
Motif ID:	13

Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.109249

Alignment:

```
AAGCAGGGCGAGGCATTGCC
----ATGGTGAAACCC----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

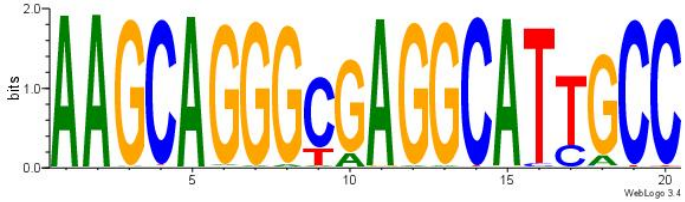

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

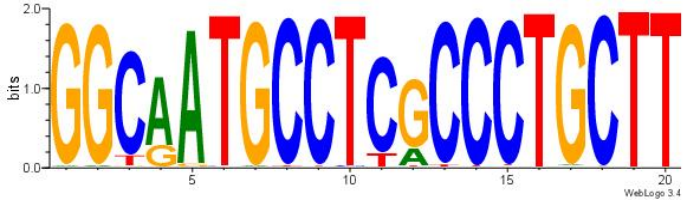

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.10962

Alignment:
TTGGTAGGATCCGTGATGCC
ATGGTGAAACCC--------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

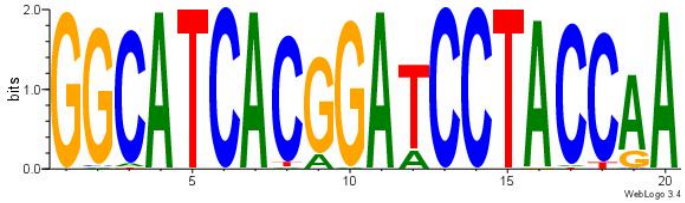

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

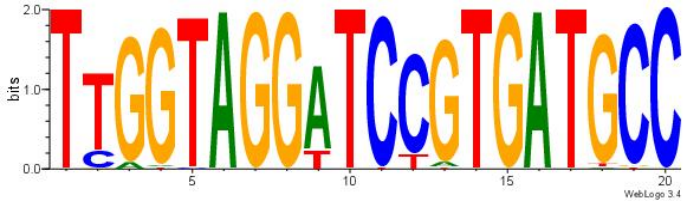

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.109673

Alignment:
AGCCYCTGGYAACCAYYAWT
-------GGGTTTCACCAT-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

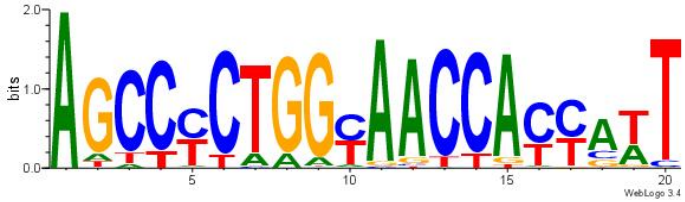

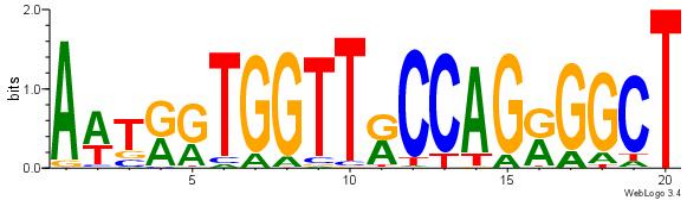

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.110498

Alignment:

```
TCACKMGGGAAGCGCAAG
---ATGGTGAAACCC---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

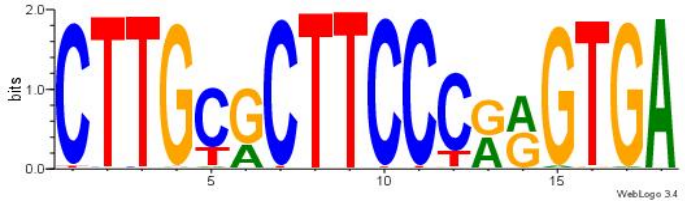

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

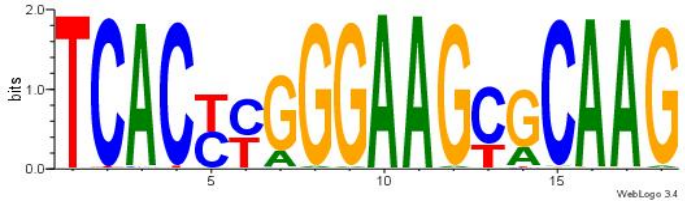

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.110785

Alignment:

```
ACAGGCTGTCCCAGGATTC
---GGGTTTCACCAT----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

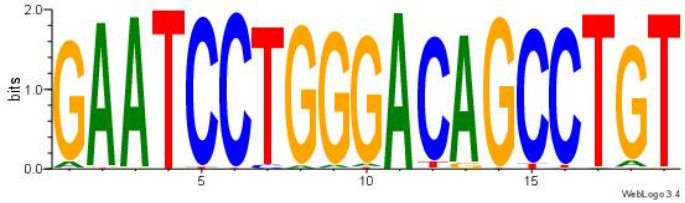

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

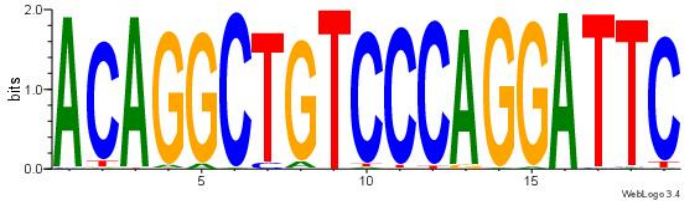

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.110827

Alignment:
CTCARGTGATCCTCC
--ATGGTGAAACCC-

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

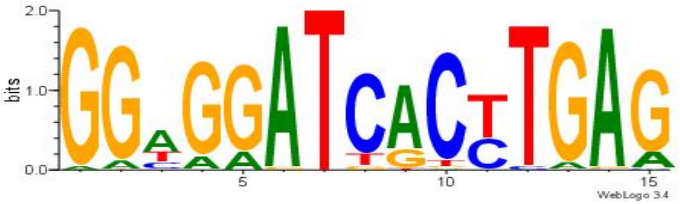

Dataset #: 1
Motif ID: 1
Motif name: Motif 1
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.110887

Alignment:
BCVTCTGTCACCCC
--GGGTTTCACCAT

Original motif Consensus sequence: GGGGTGACAGABGB

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

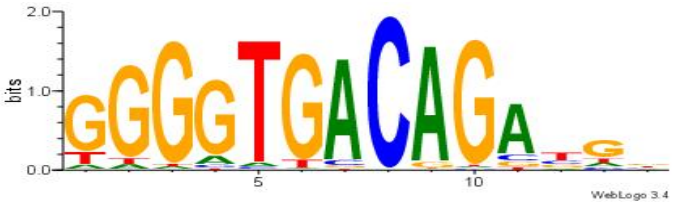

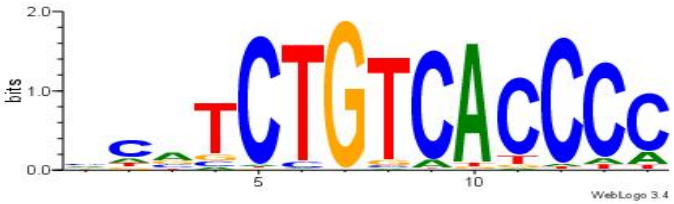

Dataset #:	1
Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.111301

Alignment:

```
GGGGTGAVCAGAT
-GGGTTTCACCAT
```

Original motif Consensus sequence: GGGGTGAVCAGAT

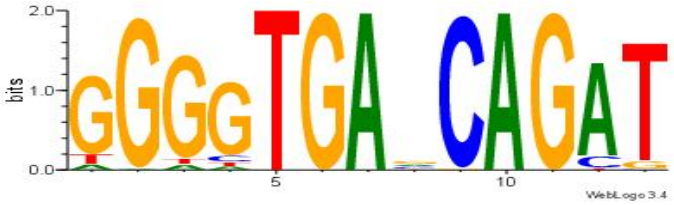

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

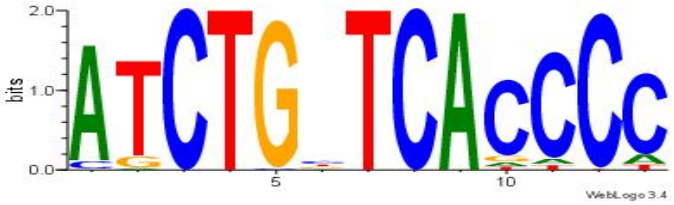

Dataset #:	1
Motif ID:	349

Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.111463

Alignment:

```
AGAGCCAAATCATGARTGAA
ATGGTGAAACCC--------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

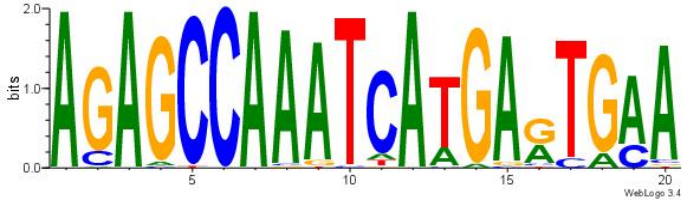

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

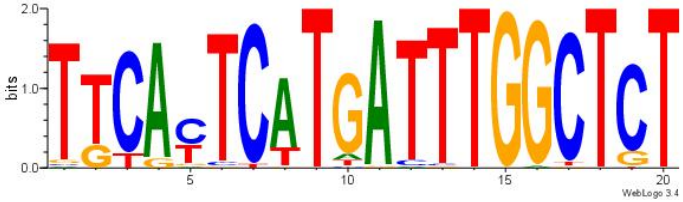

Dataset #: 1 Motif ID: 33 Motif name: Motif 33

Original motif Consensus sequence: ACGCCCACGGAGTCTC

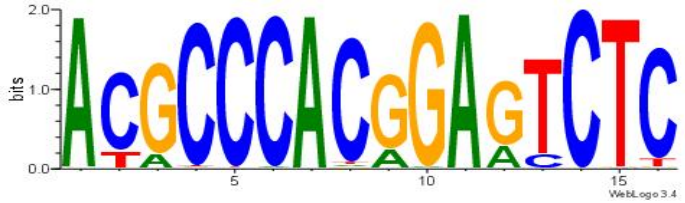

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

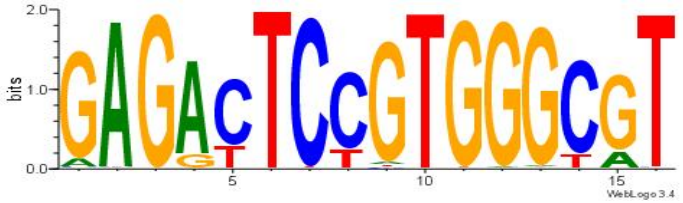

Best Matches for Motif ID 33 (Highest to Lowest)

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0890595

Alignment:

```
CTGAGGACCTGAGGTCRTA
--GAGACTCCGTGGGCGT-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

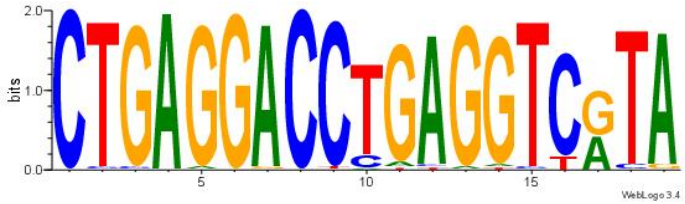

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

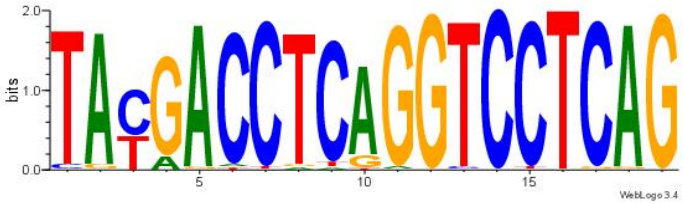

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.100481

Alignment:

```
TGCTCACACAAAGCCTGT
-ACGCCCACGGAGTCTC-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

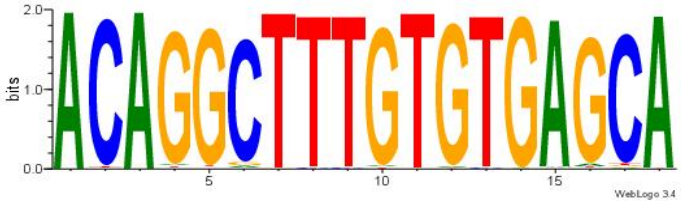

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

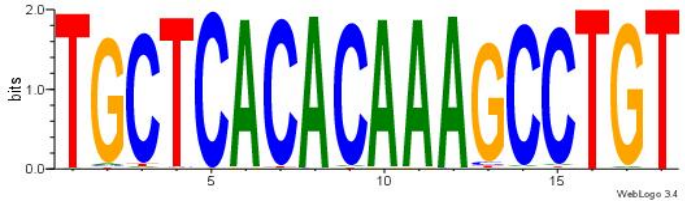

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.102336

Alignment:

```
GGGCTCCCACAGTGCAGCGG
--ACGCCCACGGAGTCTC--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

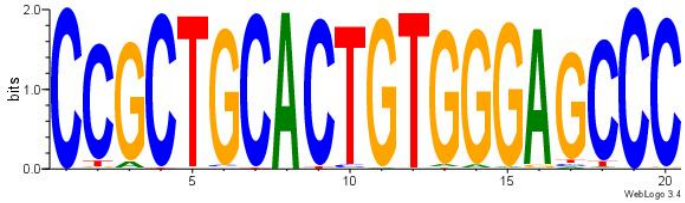

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

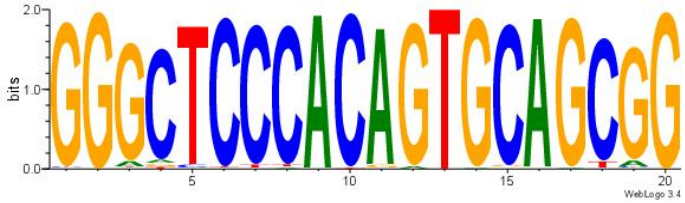

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.103114

Alignment:

```
MCCYGGCWSMGASGSTCCT
--ACGCCCACGGAGTCTC-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

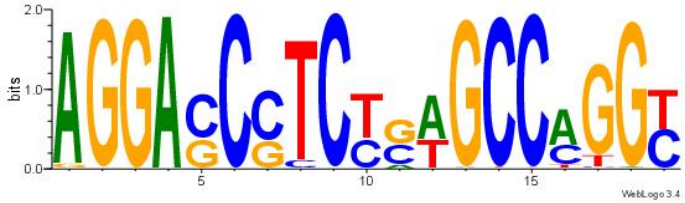

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

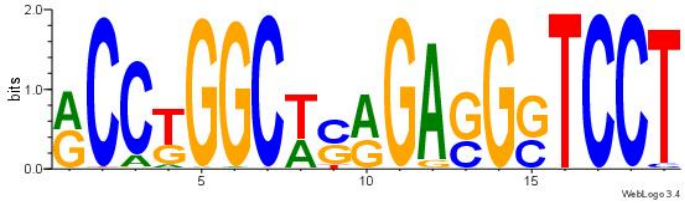

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.103795

Alignment:

```
CACCAGACTCAGGAGCCCAG
---GAGACTCCGTGGGCGT-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

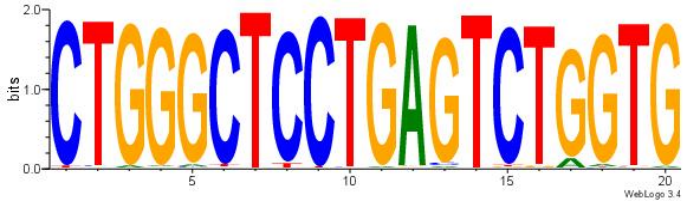

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

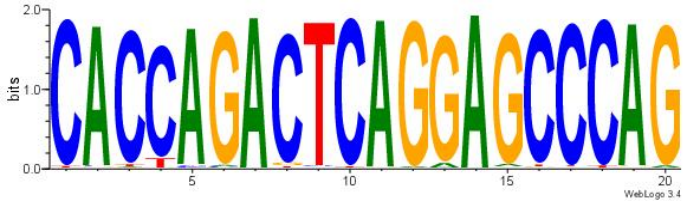

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.104953

Alignment:
GGAGCCGGCTCCCTCAGCTT
----GAGACTCCGTGGGCGT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

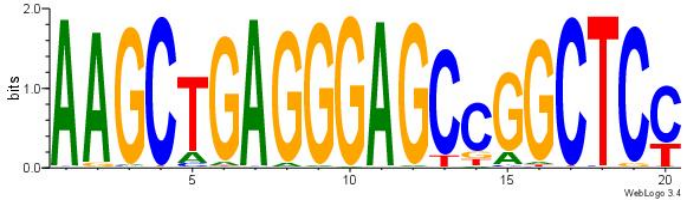

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

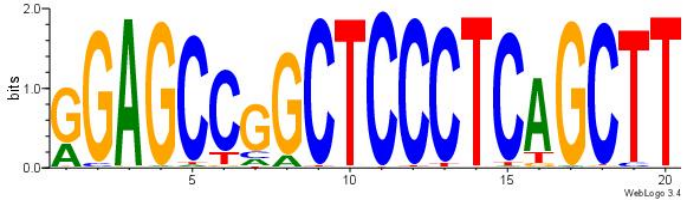

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.10568

Alignment:
ACACATCACAAAGCAGTTTC
----ACGCCCACGGAGTCTC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

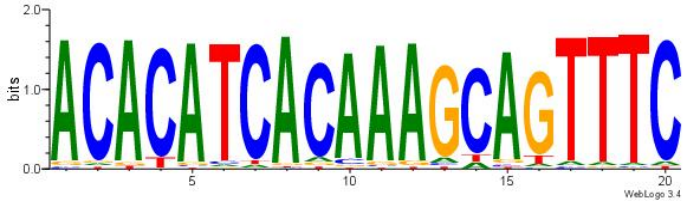

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

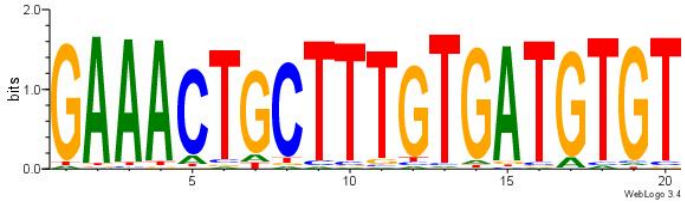

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.107019

Alignment:

```
AGTTCCGGGTGGGCGTGGG
GAGACTCCGTGGGCGT---
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

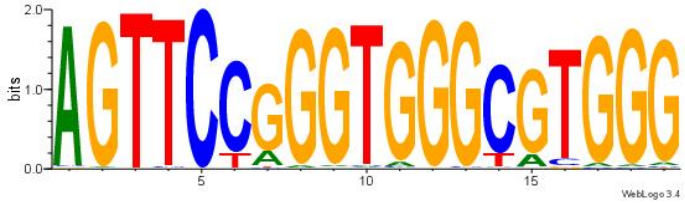

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

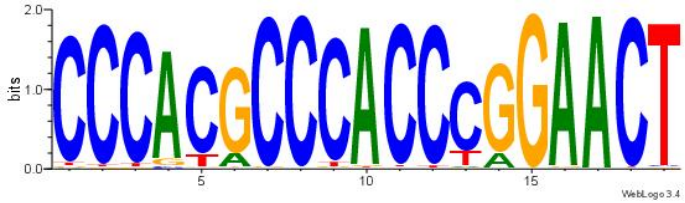

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.107658

Alignment:

```
GCCAGGCAGAGRGKCTCCT
-ACGCCCACGGAGTCTC--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

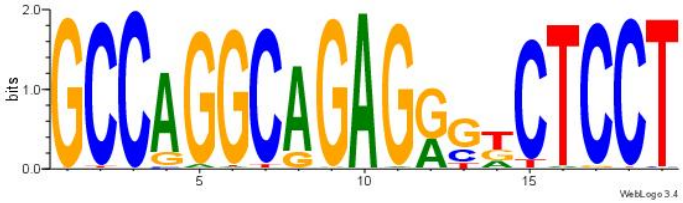

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

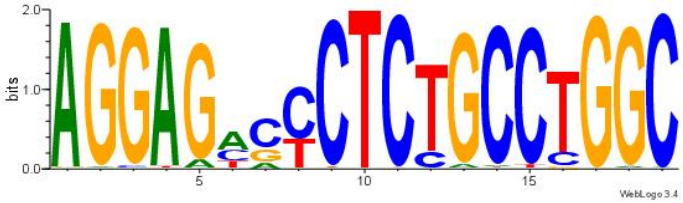

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.109193

Alignment:
CTAGACATAAAGGTTCTCCA
--ACGCCCACGGAGTCTC--

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

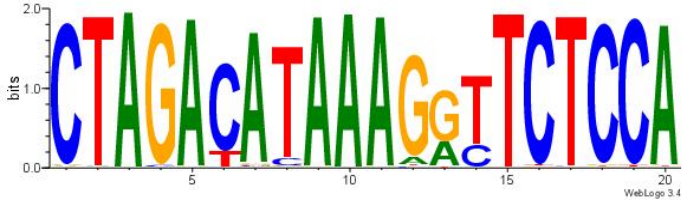

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

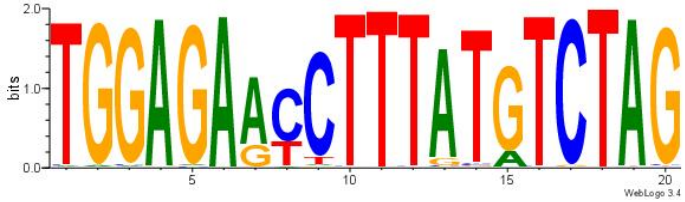

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.11004

Alignment:
AGATGCCAGCCAGAGCTCT
--ACGCCCACGGAGTCTC-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

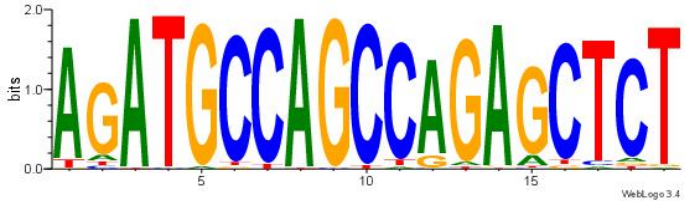

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

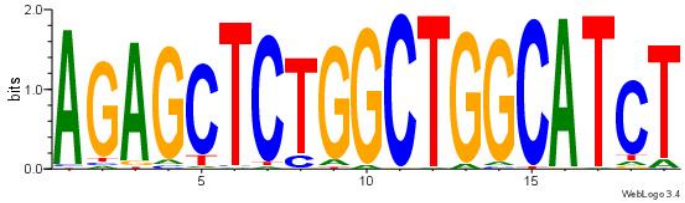

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.11025

Alignment:

```
TTGGTAGGATCCGTGATGCC
----GAGACTCCGTGGGCGT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

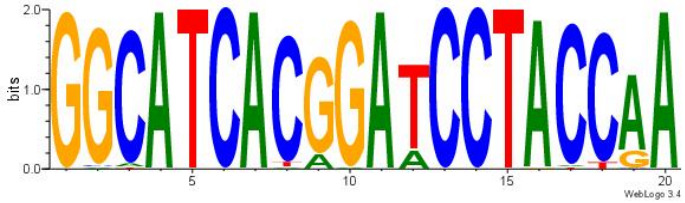

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

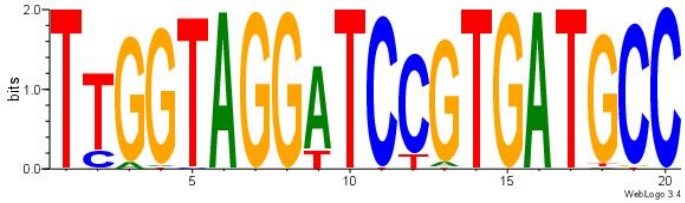

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.111847

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
-GAGACTCCGTGGGCGT---
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

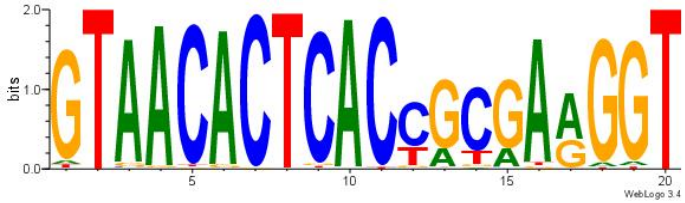

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

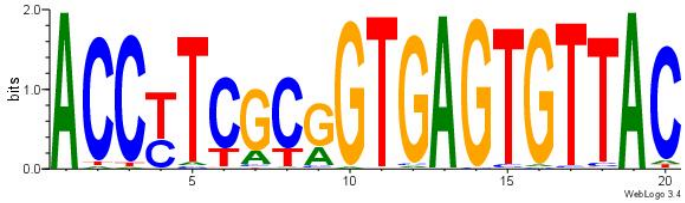

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.111901

Alignment:
CRTGAGCCACYGYRCCYGGC
---GAGACTCCGTGGGCGT-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

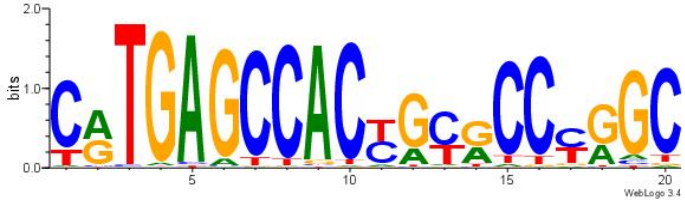

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

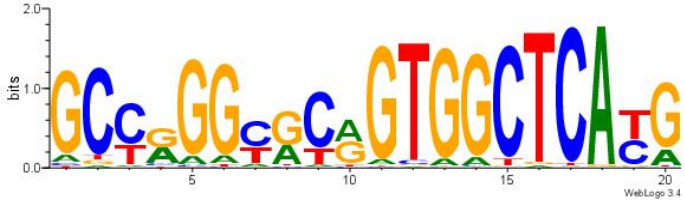

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.112094

Alignment:
TGATACCCAGGCAAACAG
--ACGCCCACGGAGTCTC

Original motif Consensus sequence: TGATACCCAGGCAAACAG

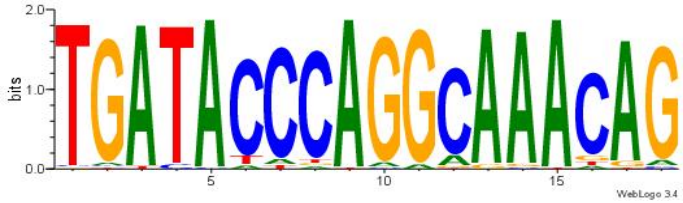

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

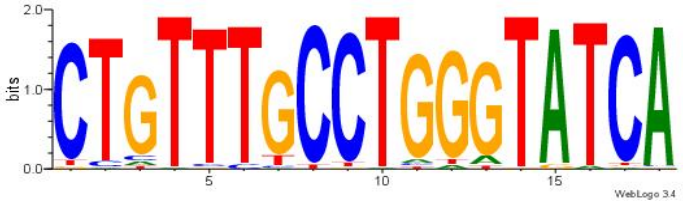

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.112549

Alignment:

```
ACACACAYACACACACACA
ACGCCCACGGAGTCTC---
```

Original motif Consensus sequence: ACACACAYACACACACACA

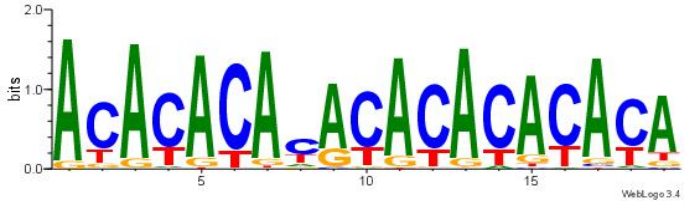

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

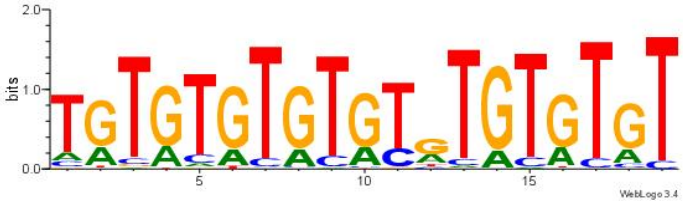

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.112719

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GAGACTCCGTGGGCGT----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

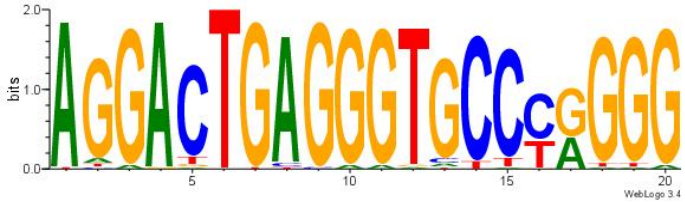

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

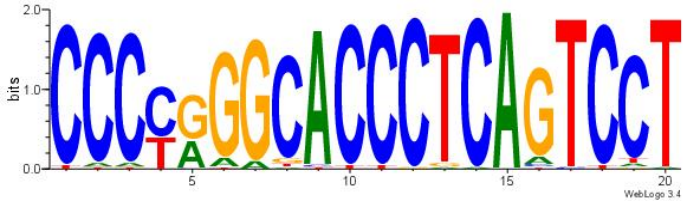

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.112726

Alignment:
GCCTCTCCCTCCACACCTCC
---ACGCCCACGGAGTCTC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

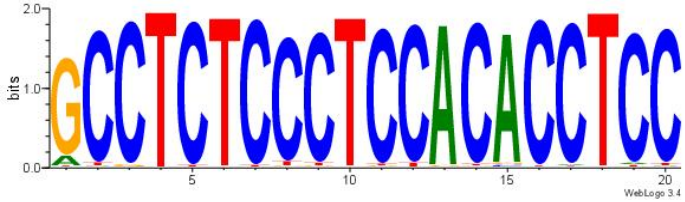

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

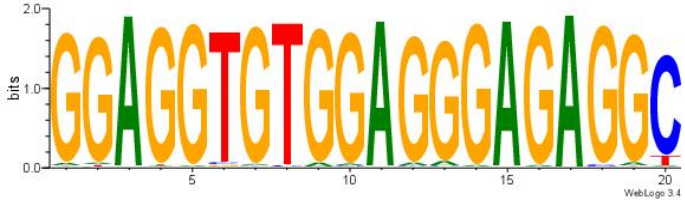

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.113156

Alignment:
AAGAGGTTTAATTGRCTCA
--GAGACTCCGTGGGCGT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

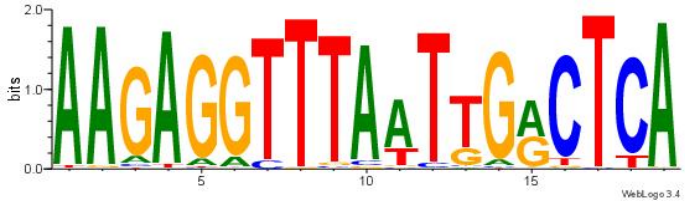

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

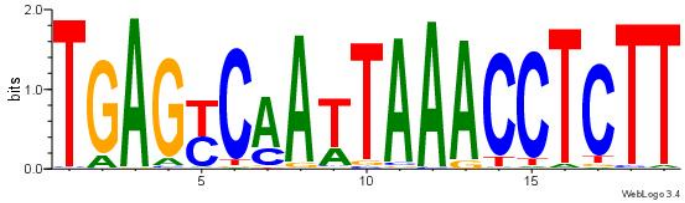

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.11329

Alignment:

```
TTMGTCCCAGAGGGGCACC
--ACGCCCACGGAGTCTC-
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

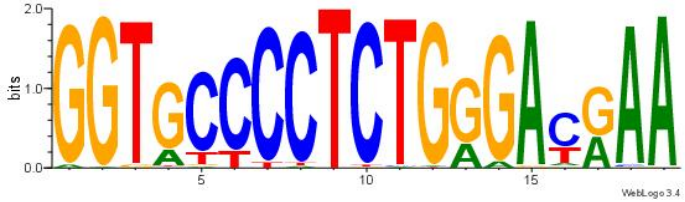

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

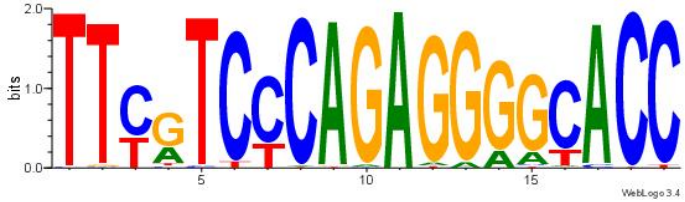

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.114925

Alignment:

```
ATGATCCAGCAATYCCACTH
ACGCCCACGGAGTCTC----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

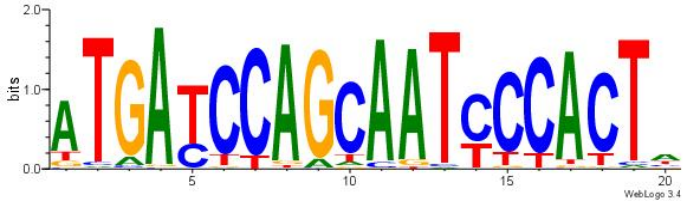

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

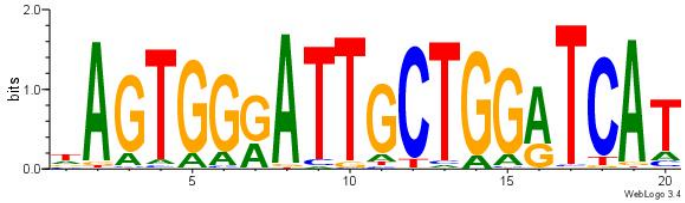

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.116034

Alignment:
KCCGGGCCTTAGCTGCCTTC
---GAGACTCCGTGGGCGT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

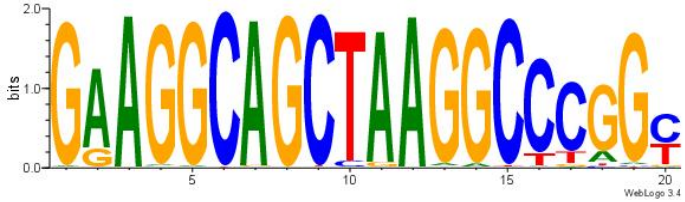

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

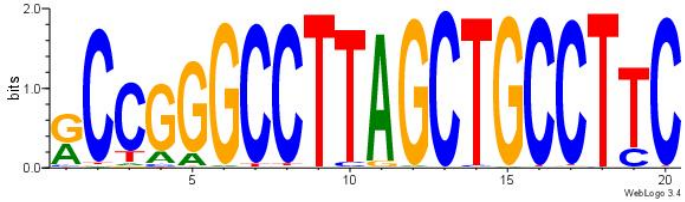

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.116713

Alignment:
CAAGCCTSKGCAATGGCAGG
-ACGCCCACGGAGTCTC---

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

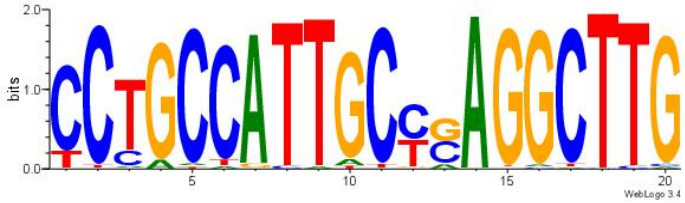

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

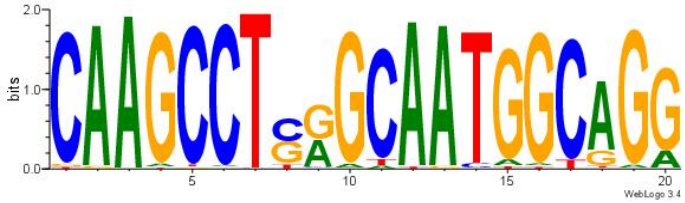

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.117036

Alignment:

```
CTTGCCCAAGGTCACACAGC
-ACGCCCACGGAGTCTC---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

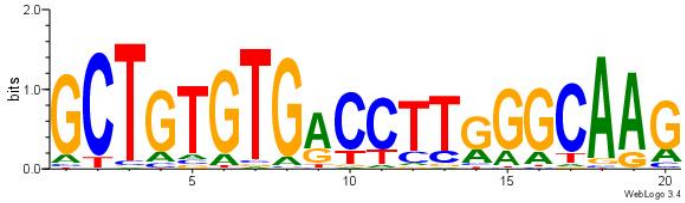

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

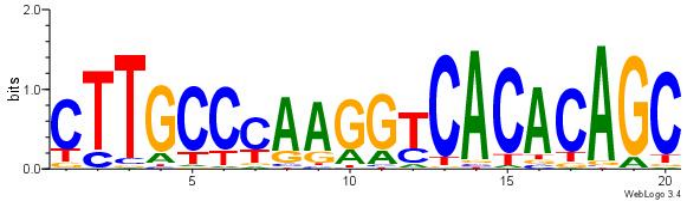

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.117215

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-GAGACTCCGTGGGCGT---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

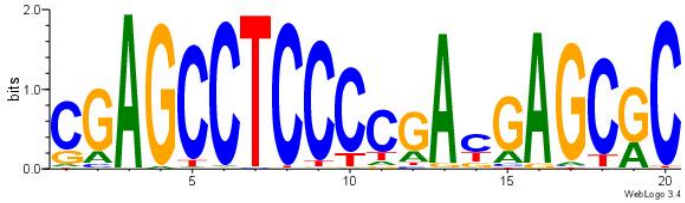

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

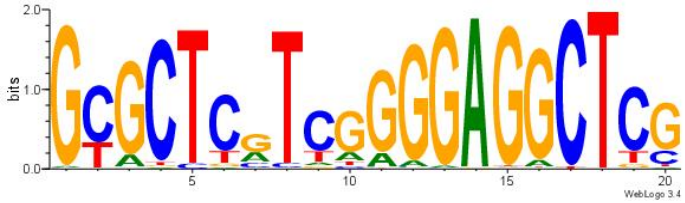

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.117501

Alignment:
AACAACASACACTGGGGCCT
----ACGCCCACGGAGTCTC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

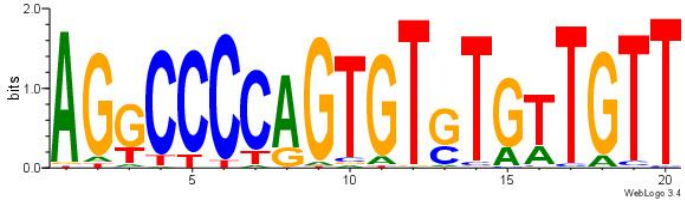

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

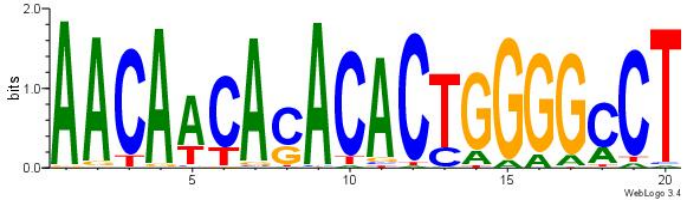

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.118408

Alignment:
AAAACCAGCAAGTTTTTAT
ACGCCCACGGAGTCTC---

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

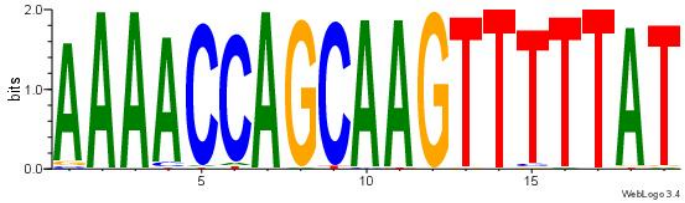

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

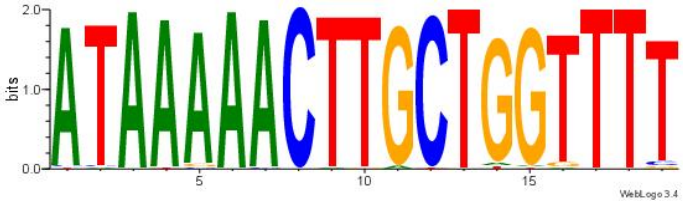

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.11961

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
GAGACTCCGTGGGCGT----
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

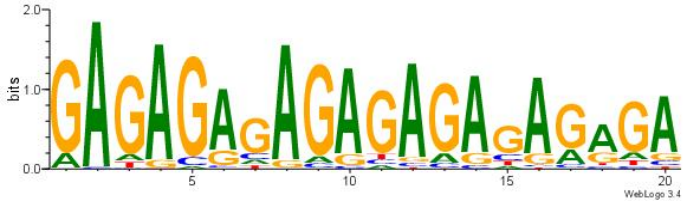

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

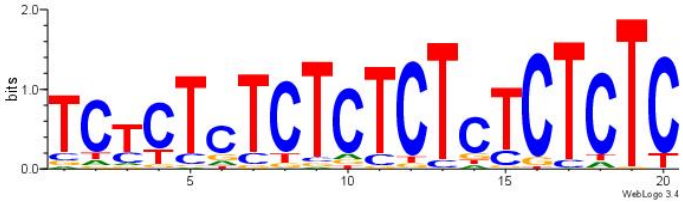

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.11977

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GAGACTCCGTGGGCGT----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

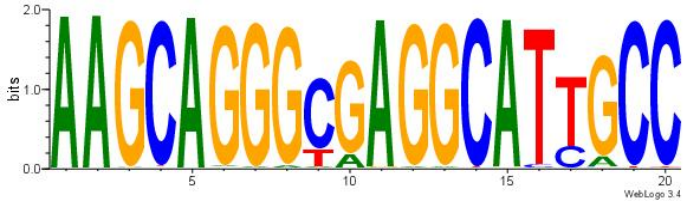

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

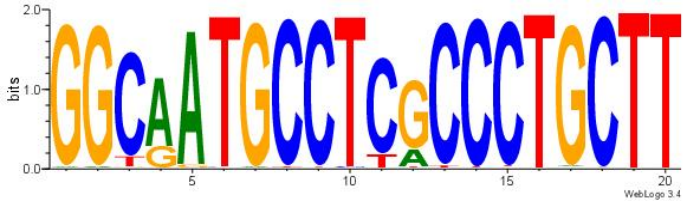

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.119786

Alignment:
ACCCAATWTGTAGTCTTTTA
-GAGACTCCGTGGGCGT---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

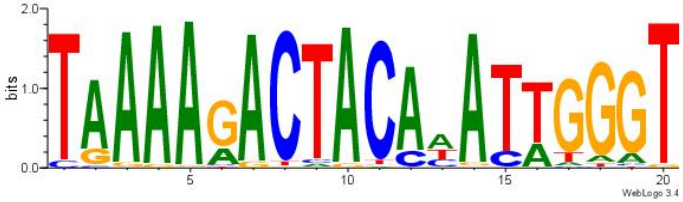

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

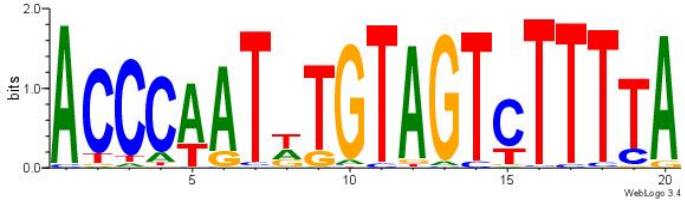

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.119806

Alignment:
AGTGAGAACATRYRRTRTTT
---GAGACTCCGTGGGCGT-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

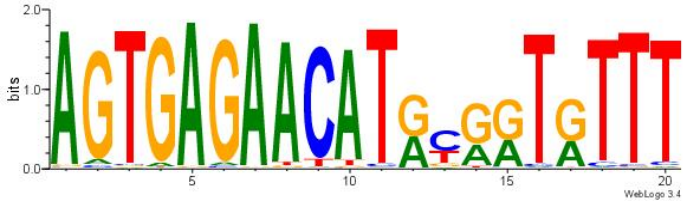

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

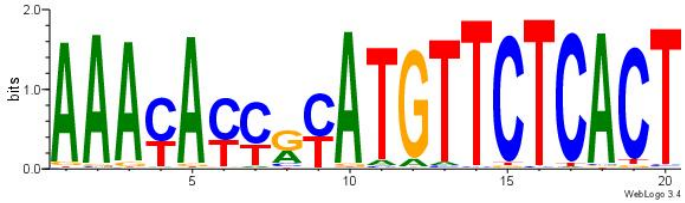

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.119838

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
--GAGACTCCGTGGGCGT--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

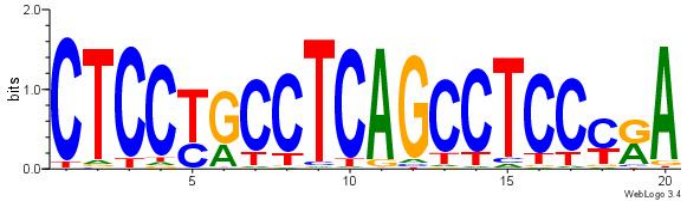

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

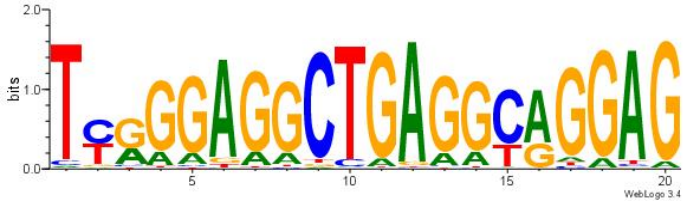

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.120196

Alignment:

```
TTGAGGAGGCAGTCTG
ACGCCCACGGAGTCTC
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

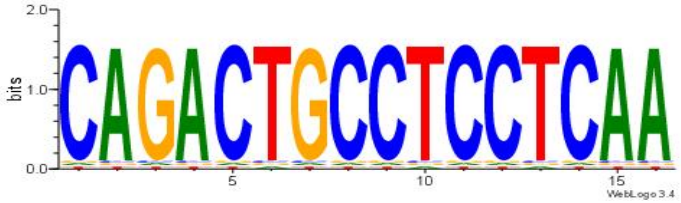

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

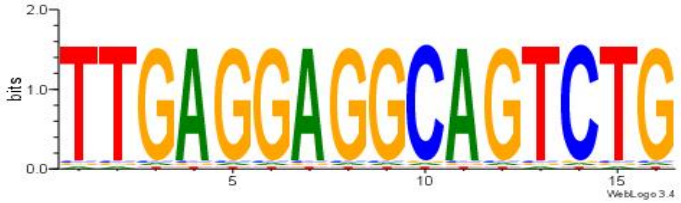

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.120525

Alignment:
GAAHCAACCKAAKTGTCCAT
----GAGACTCCGTGGGCGT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

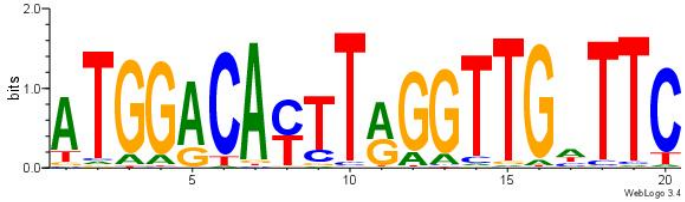

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

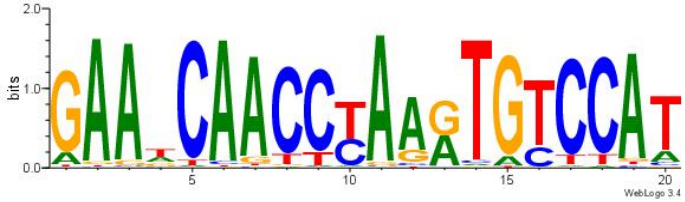

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.121241

Alignment:
CTGGGTCCCCCAGCAGTGCC
----ACGCCCACGGAGTCTC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

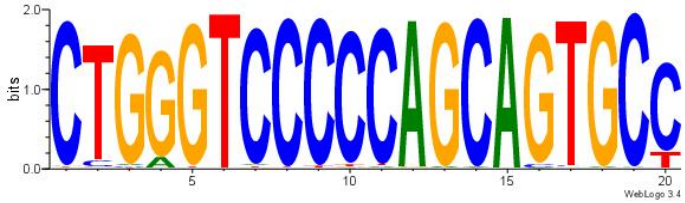

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

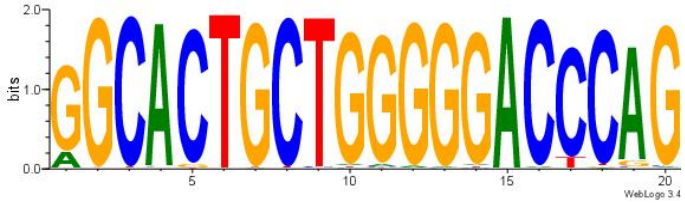

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.121435

Alignment:

```
ATAGGAATGCTTGTGATTTT
--GAGACTCCGTGGGCGT--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

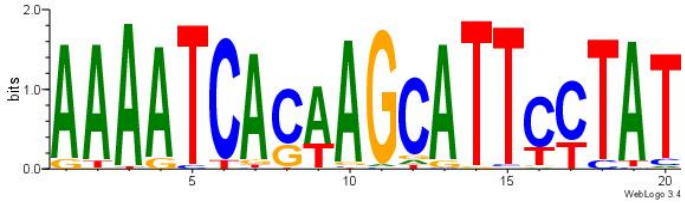

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

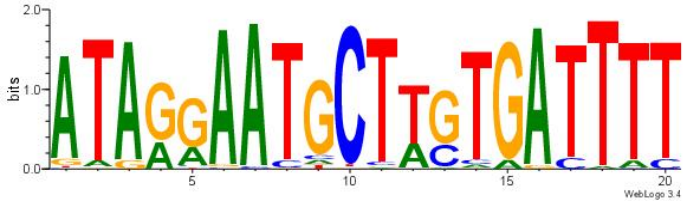

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.121599

Alignment:

```
AGCCYCTGGYAACCAYYAWT
ACGCCCACGGAGTCTC----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

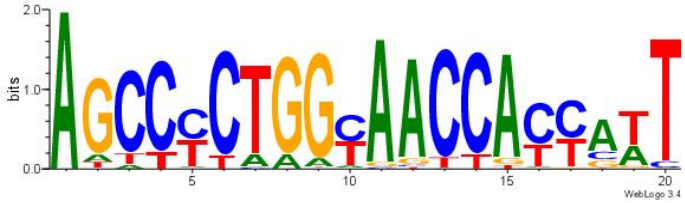

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

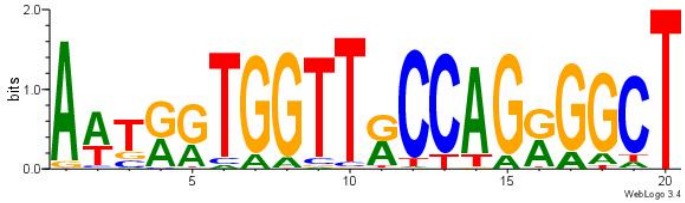

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.121916

Alignment:
TCKMGCCACTGCACTCCAGC
--ACGCCCACGGAGTCTC--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

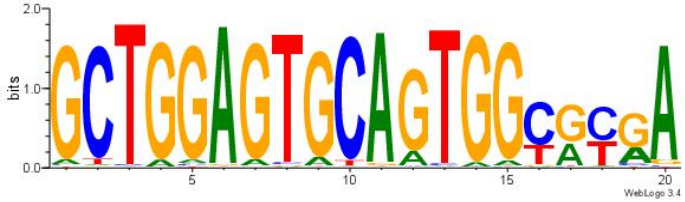

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

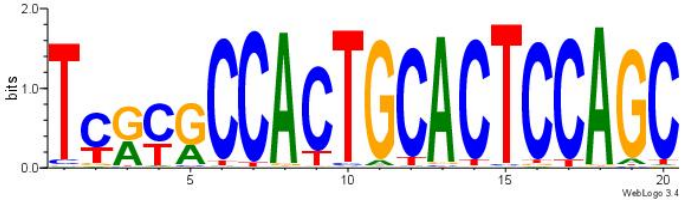

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.12277

Alignment:
GTACCTCAGWTGGAAATG
GAGACTCCGTGGGCGT--

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

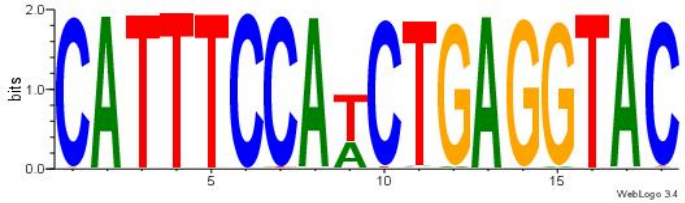

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

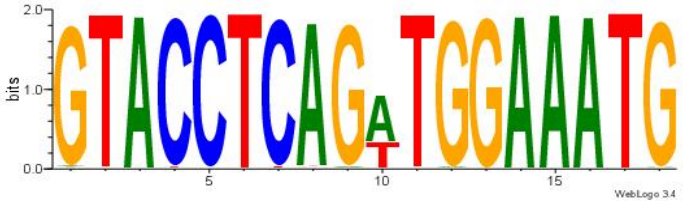

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.123198

Alignment:

```
GAATACCTCCTGAAGGACCT
--ACGCCCACGGAGTCTC--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

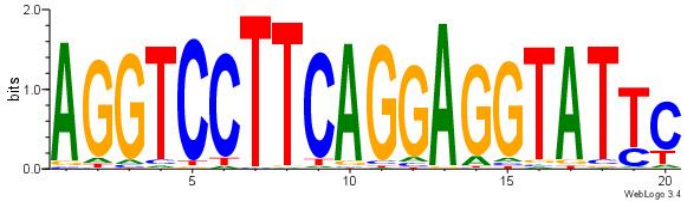

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

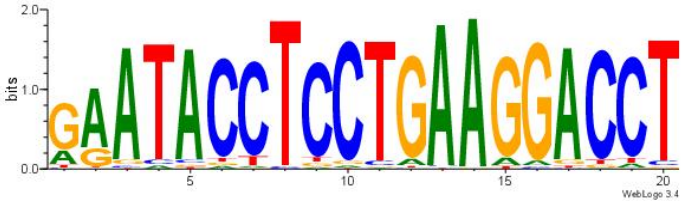

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.123247

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
---GAGACTCCGTGGGCGT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

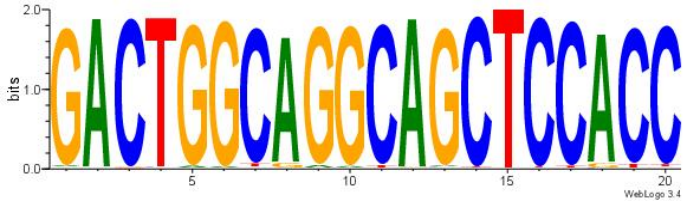

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

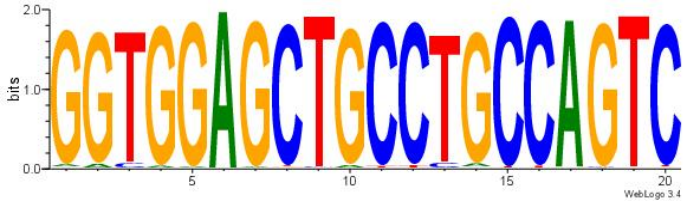

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.123891

Alignment:
TCCCTCCCGGACGGGGYGGC
----ACGCCCACGGAGTCTC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

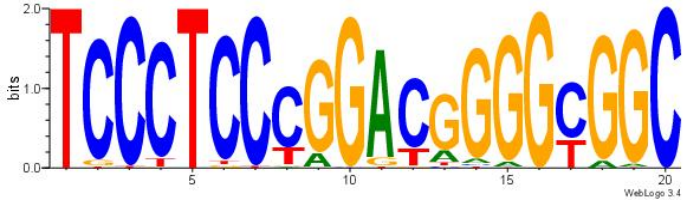

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

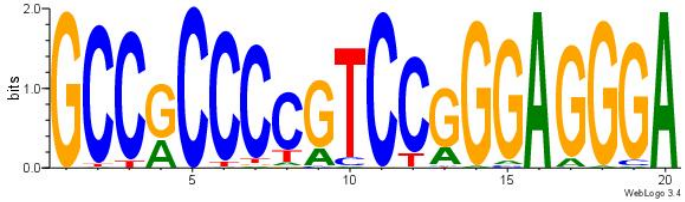

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.124601

Alignment:
CMTAGYACAGTGCCTGGCAC
ACGCCCACGGAGTCTC----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

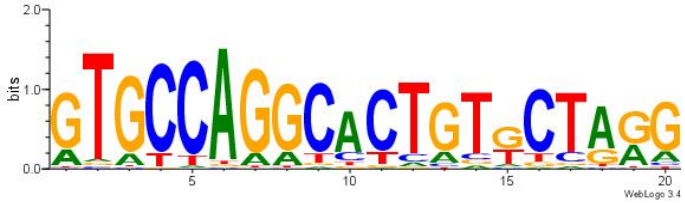

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

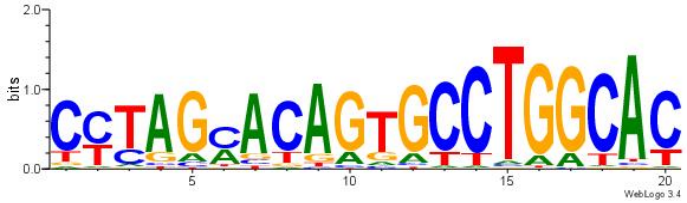

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.124899

Alignment:

```
AATCAACCCTGGYRATCAAT
GAGACTCCGTGGGCGT----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

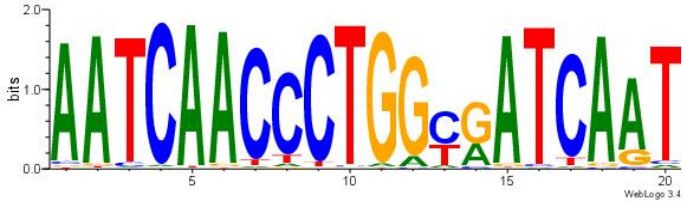

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

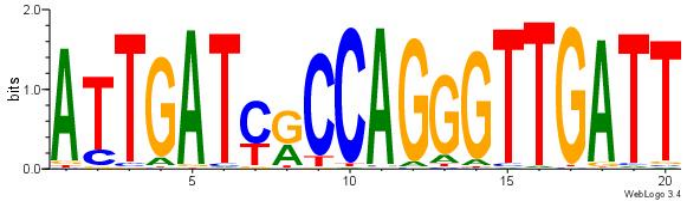

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.125022

Alignment:

```
TGHCCTGCKCCCACTGTCT
-ACGCCCACGGAGTCTC--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

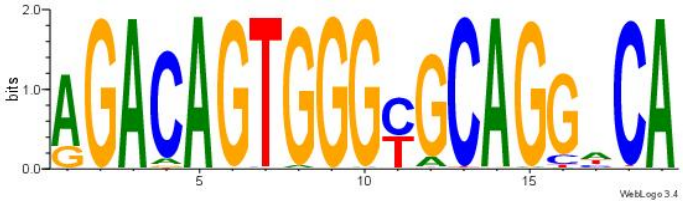

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

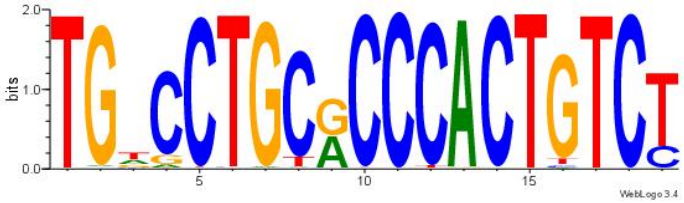

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.125771

Alignment:
GTTATTAATTGGCCTAATTT
GAGACTCCGTGGGCGT----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

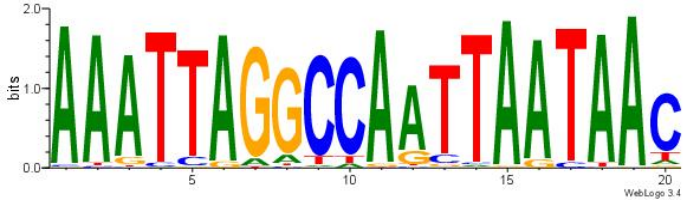

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.126345

Alignment:
CAAGCGCCAGCTCATGTC
--ACGCCCACGGAGTCTC

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

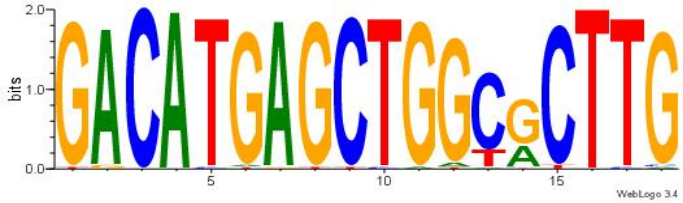

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

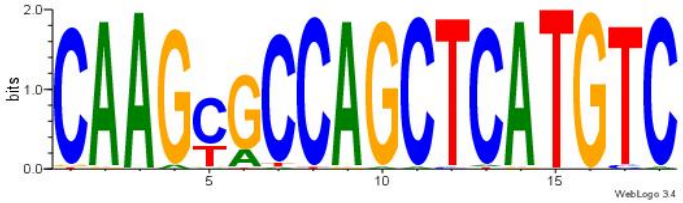

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.126377

Alignment:

```
VCCDCCTCCKCCTCCTC
-ACGCCCACGGAGTCTC
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

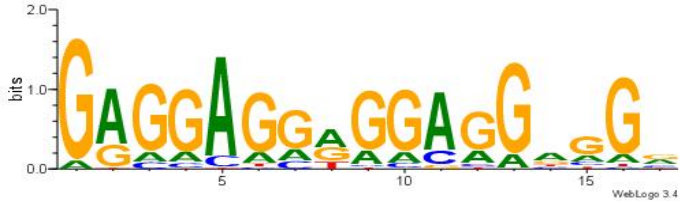

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

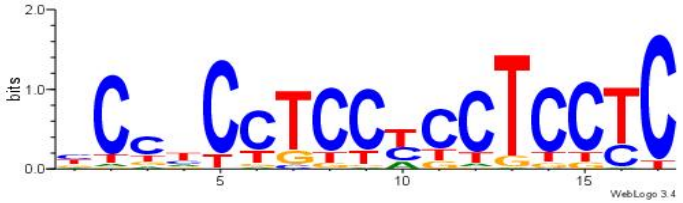

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.127144

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--ACGCCCACGGAGTCTC--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

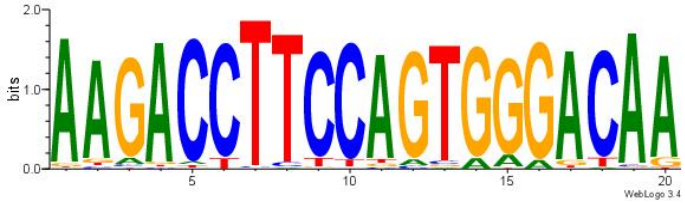

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

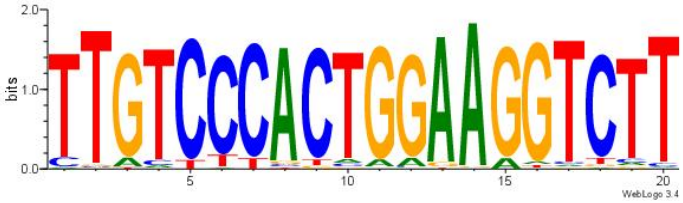

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.127271

Alignment:
AAAAGTCCACAGTCCAAAGT
--ACGCCCACGGAGTCTC--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

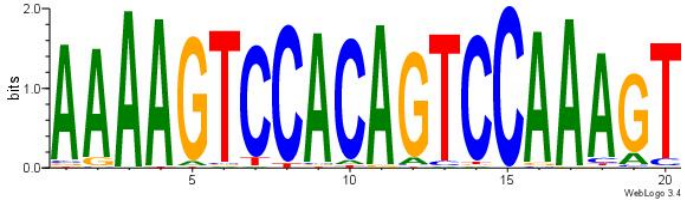

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

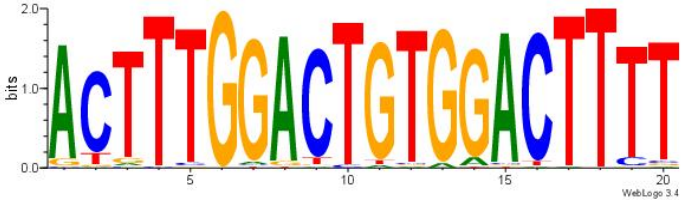

Dataset #: 1 Motif ID: 34 Motif name: Motif 34

Original motif Consensus sequence: GGACGCACA

Reverse complement motif Consensus sequence: TGTGCGTCC

Best Matches for Motif ID 34 (Highest to Lowest)

Dataset #: 1
Motif ID: 314
Motif name: Motif 314
Matching format of first motif: Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0220227

Alignment:

```
ATGTGCGTTCC
-TGTGCGTCC-
```

Original motif Consensus sequence: GGAACGCACAT

Reverse complement motif Consensus sequence: ATGTGCGTTCC

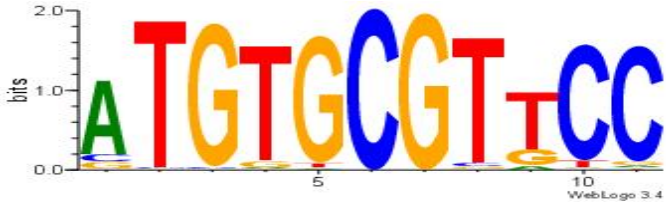

Dataset #:	1
Motif ID:	87
Motif name:	Motif 87
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0275308

Alignment:

GGACACACATG
GGACGCACA--

Original motif Consensus sequence: CATGTGTGTCC

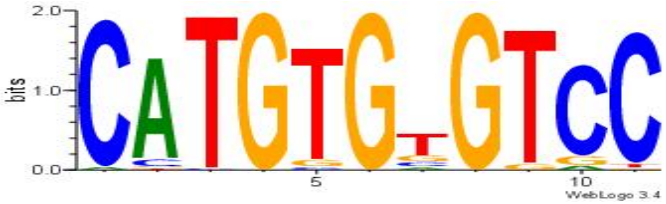

Reverse complement motif Consensus sequence: GGACACACATG

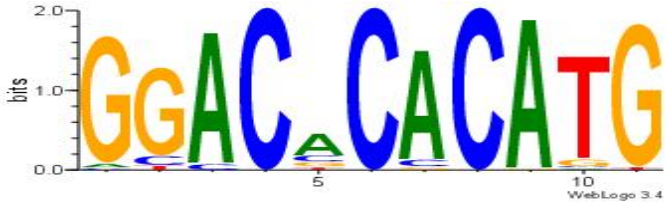

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0465084

Alignment:
GCTCCWGTGYGKCC
-----TGTGCGTCC

Original motif Consensus sequence: GCTCCWGTGYGKCC

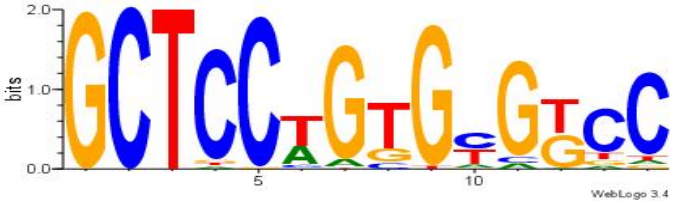

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0483962

Alignment:

```
HGCTCCTGTGSKCCC
------TGTGCGTCC
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

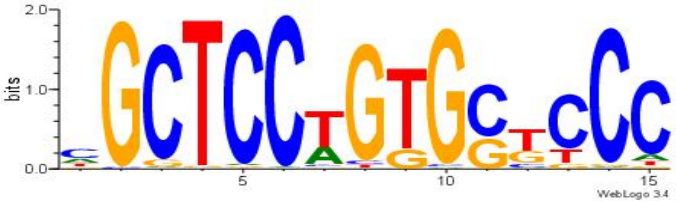

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward

Position number: 1
Number of overlap: 9
Similarity score: 0.0524947

Alignment:
CCATGTGSTCCC
---TGTGCGTCC

Original motif Consensus sequence: CCATGTGSTCCC

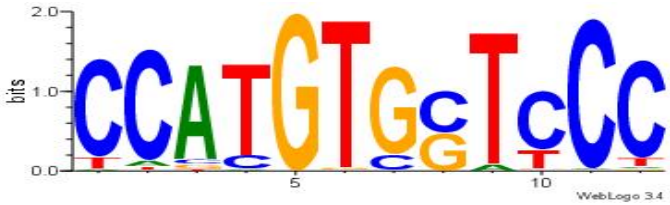

Reverse complement motif Consensus sequence: GGGASCACATGG

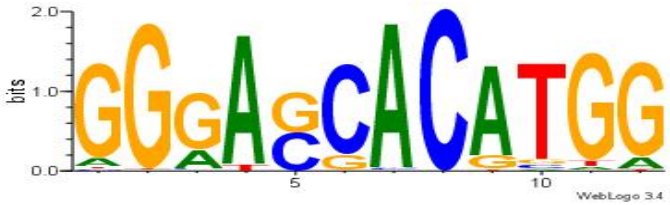

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 9
Similarity score: 0.0583847

Alignment:
TCACKMGGGAAGCGCAAG
--GGACGCACA-------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

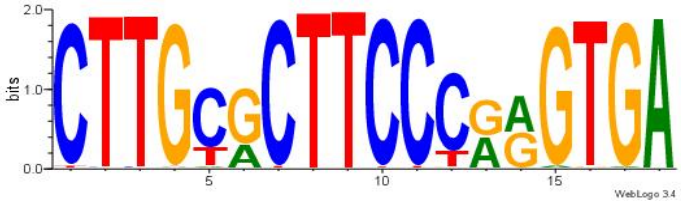

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

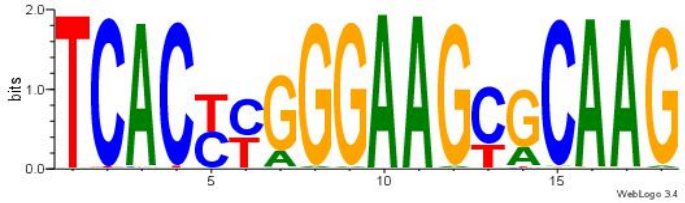

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0627817

Alignment:

```
GGGACWGCACAT
--GGACGCACA-
```

Original motif Consensus sequence: ATGTGCWGTCCC

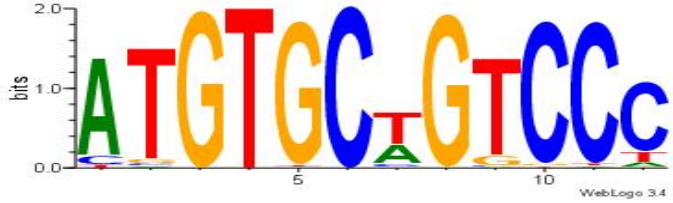

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0651977

Alignment:

```
GTGGGTGCGCGCA
---TGTGCGTCC-
```

Original motif Consensus sequence: GTGGGTGCGCGCA

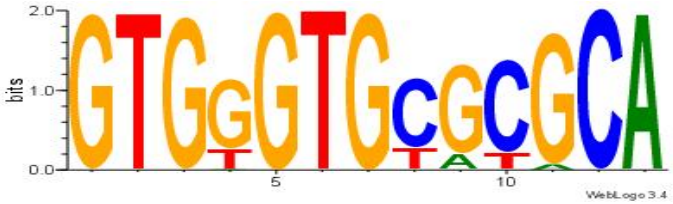

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

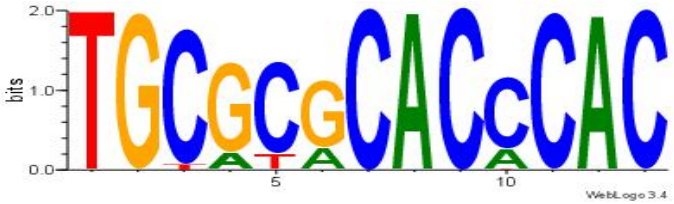

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0682568

Alignment:
GCTGTGTGACCTTGGGCAAG
--TGTGCGTCC---------

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

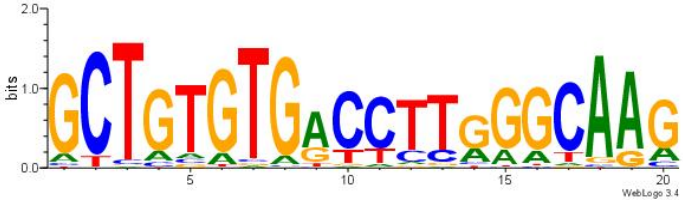

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

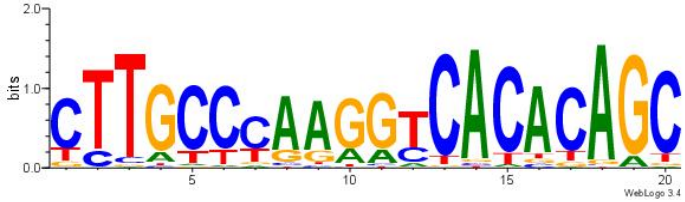

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 9
Similarity score: 0.0703469

Alignment:
GKCTGTACCCCCATTGTAT
---TGTGCGTCC-------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

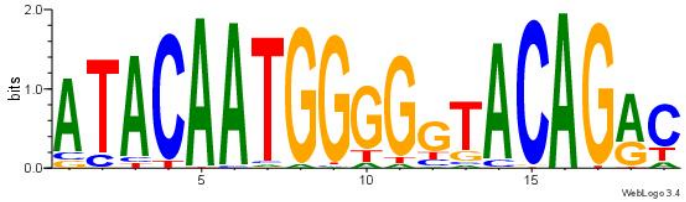

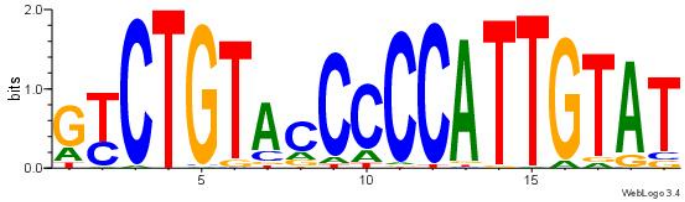

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0707606

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-----------TGTGCGTCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

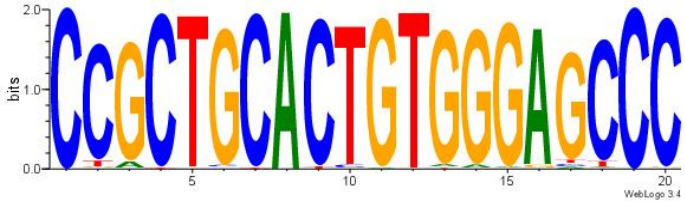

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

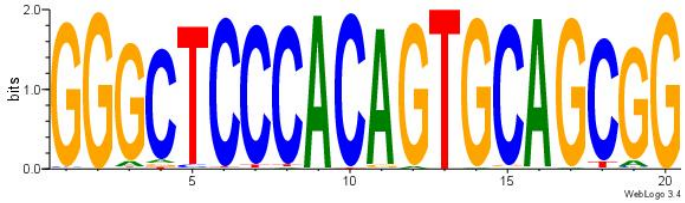

Dataset #: 1

Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0716176

Alignment:

```
CCATGGCGTCC
--TGTGCGTCC
```

Original motif Consensus sequence: CCATGGCGTCC

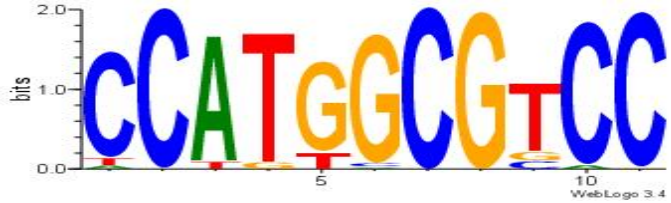

Reverse complement motif Consensus sequence: GGACGCCATGG

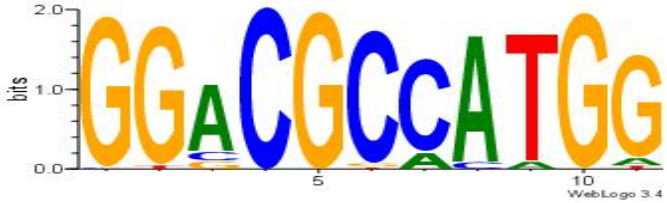

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.072857

Alignment:
GCGGCCGGGCAGAG
--GGACGCACA---

Original motif Consensus sequence: CTCTGCCCGGCCGC

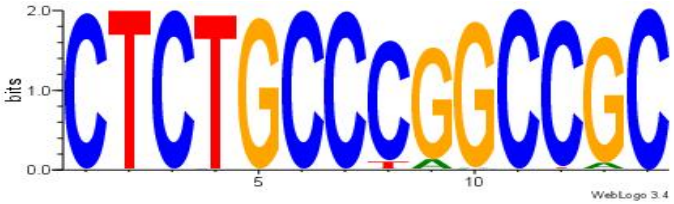

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

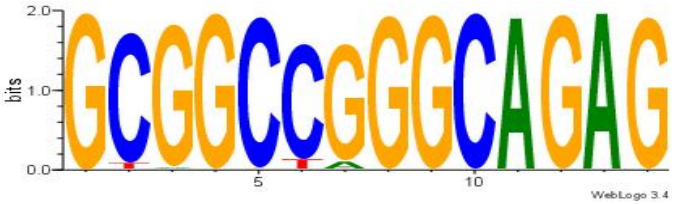

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0732172

Alignment:
CTGTCAGCCCAT
-TGTGCGTCC--

Original motif Consensus sequence: CTGTCAGCCCAT

Reverse complement motif Consensus sequence: ATGGGCTGACAG

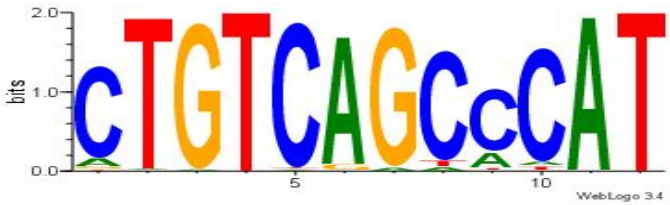

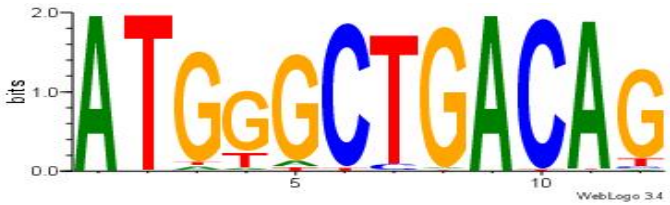

Dataset #:	1
Motif ID:	50
Motif name:	Motif 50
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0738752

Alignment:

```
GCCCTCACATC
GGACGCACA--
```

Original motif Consensus sequence: GATGTGAGGGC

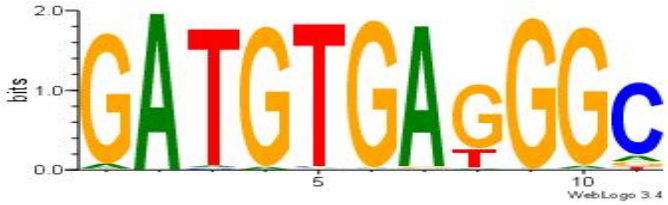

Reverse complement motif Consensus sequence: GCCCTCACATC

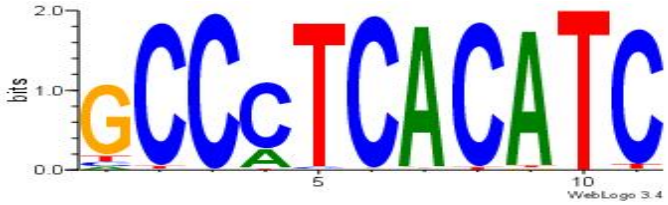

Dataset #:	1
Motif ID:	284

Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0741054

Alignment:

```
TCAATGGGCTCCCAAATG
----TGTGCGTCC-----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

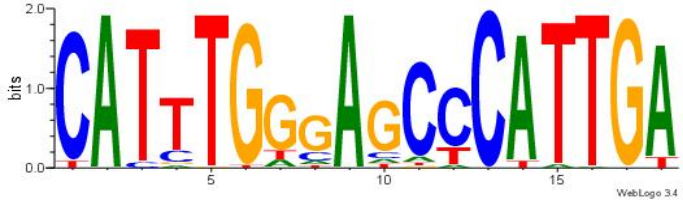

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

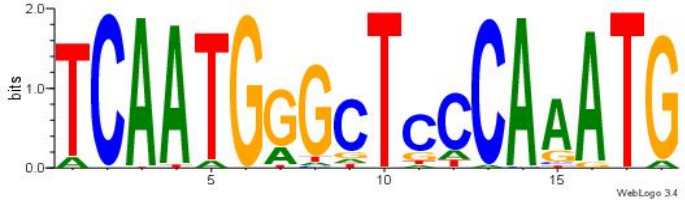

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0741181

Alignment:
CATCTGGCAGCCCA
-----GGACGCACA

Original motif Consensus sequence: CATCTGGCAGCCCA

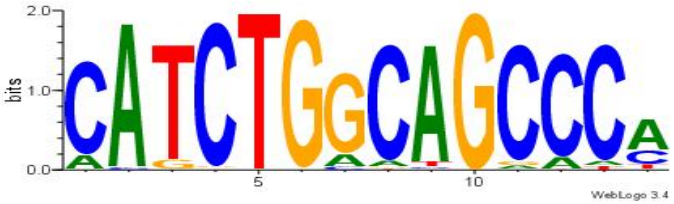

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

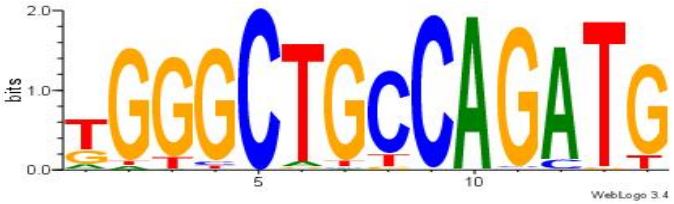

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0751572

Alignment:
CTGGGTCCCCCAGCAGTGCC
---GGACGCACA--------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

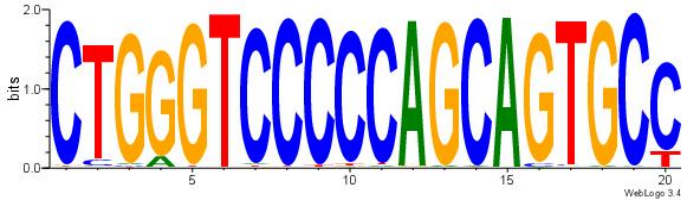

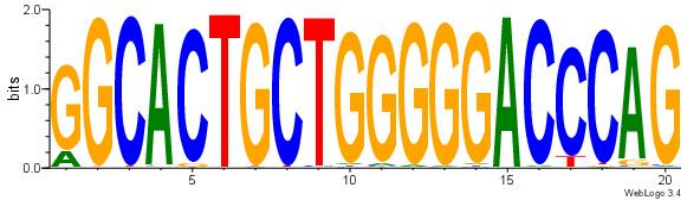

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0757493

Alignment:

```
ACAGGCTTTGTGTGAGCA
--------TGTGCGTCC-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

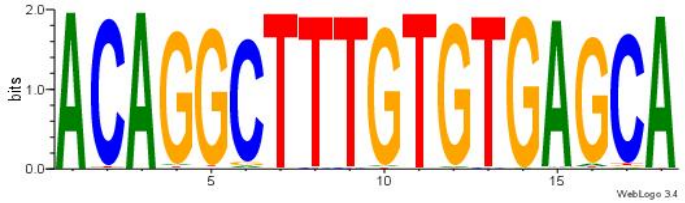

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

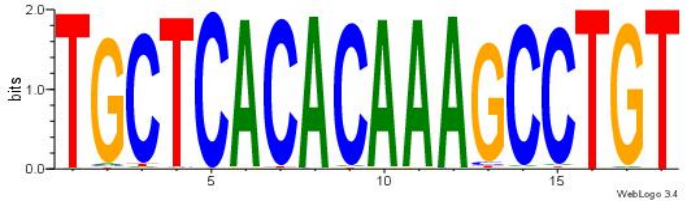

Dataset #:	1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0766163

Alignment:

```
TCTCTGAGCCTCAGTT
----TGTGCGTCC---
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

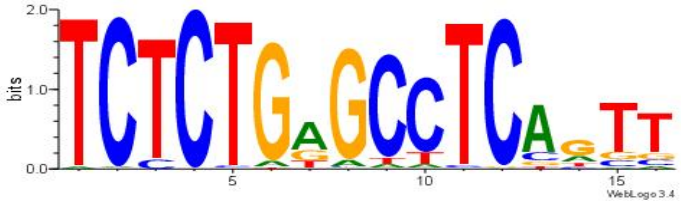

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

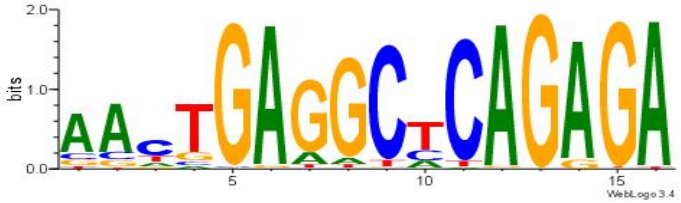

Dataset #:	1
Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0769604

Alignment:
ATTGCTAGCACA
---GGACGCACA

Original motif Consensus sequence: ATTGCTAGCACA

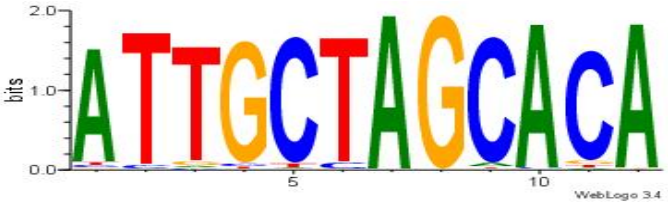

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

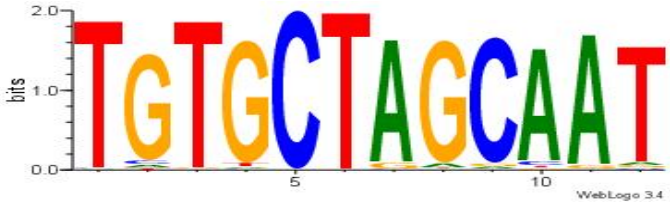

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0770804

Alignment:
TTTGGTGCACCCATCA
---TGTGCGTCC----

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

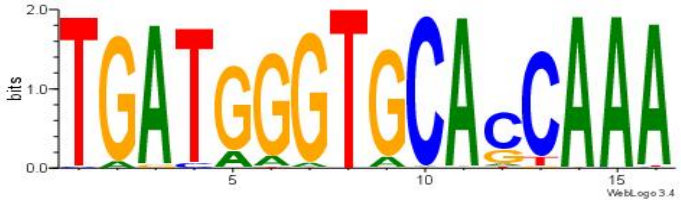

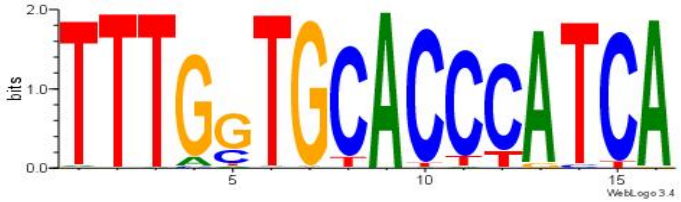

Dataset #:	1
Motif ID:	265
Motif name:	Motif 265
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0772292

Alignment:

```
TGCGCATGCGC
TGTGCGTCC--
```

Original motif Consensus sequence: GCGCATGCGCA

Reverse complement motif Consensus sequence: TGCGCATGCGC

Dataset #:	1
Motif ID:	268

Motif name:	Motif 268
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.077328

Alignment:

```
ATAGTGAGACC
--TGTGCGTCC
```

Original motif Consensus sequence: ATAGTGAGACC

Reverse complement motif Consensus sequence: GGTCTCACTAT

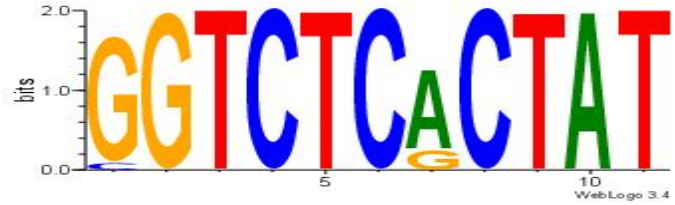

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0788068

Alignment:
GGATCCACTGGGTGAAGCCA
GGACGCACA----------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

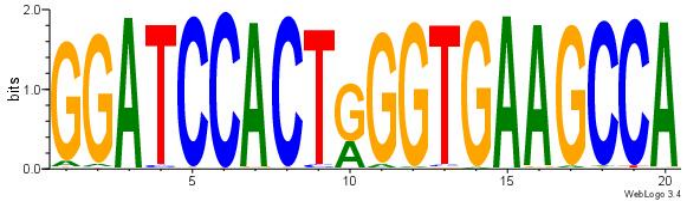

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

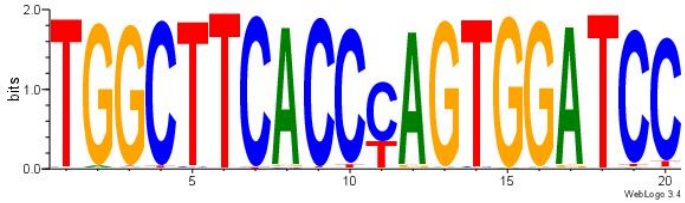

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0793171

Alignment:
TGHCCTGCKCCCACTGTCT
----GGACGCACA------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

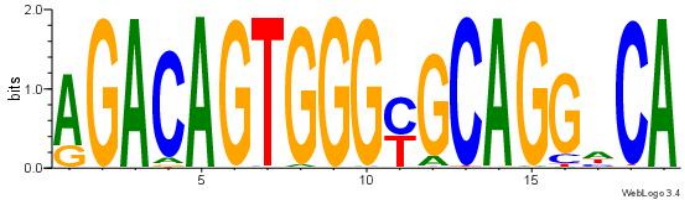

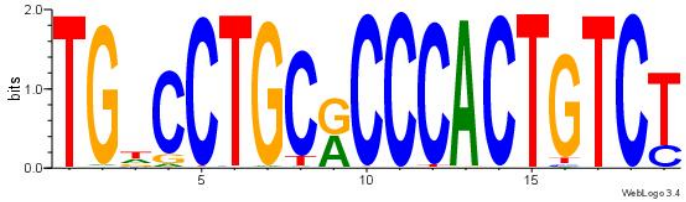

Dataset #:	1
Motif ID:	180
Motif name:	Motif 180
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0797771

Alignment:

```
TGCGCATGCGCA
TGTGCGTCC---
```

Original motif Consensus sequence: TGCGCATGCGCA

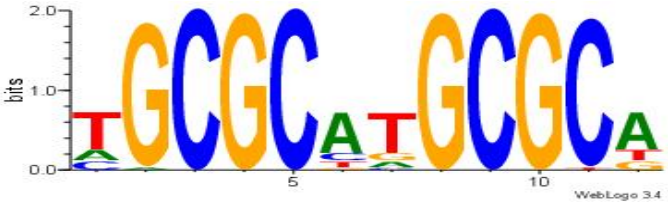

Reverse complement motif Consensus sequence: TGCGCATGCGCA

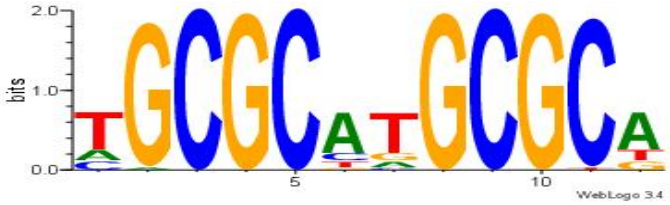

Dataset #:	1
Motif ID:	245

Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.080116

Alignment:

```
TTGAGGAGGCAGTCTG
----GGACGCACA---
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

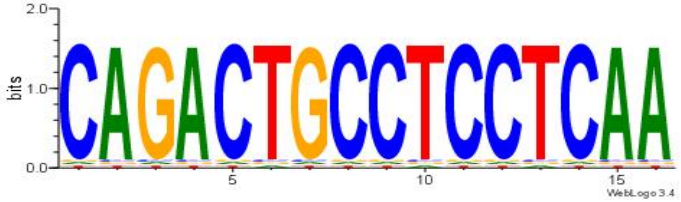

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

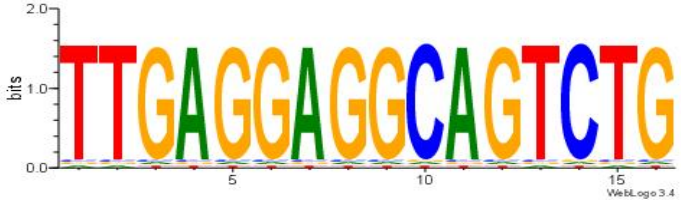

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0809948

Alignment:
CTGACTGGGAGACACCTCCC
-------GGACGCACA----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

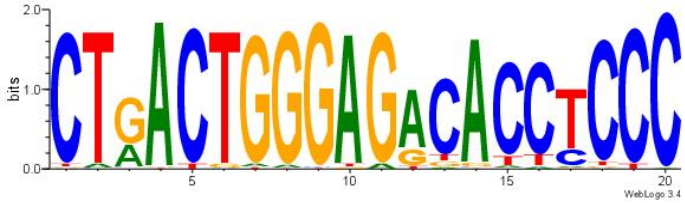

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

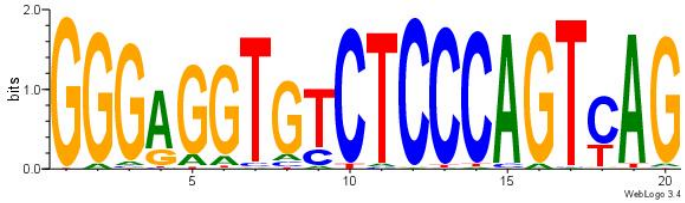

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0817076

Alignment:
AGGACTGAGGGTGCCYRGGG
-----TGTGCGTCC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

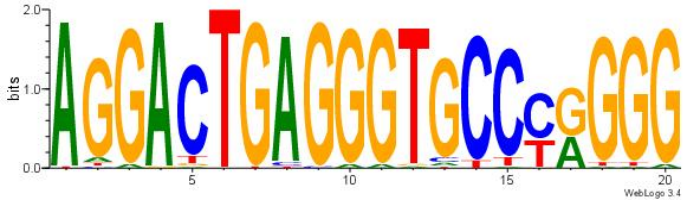

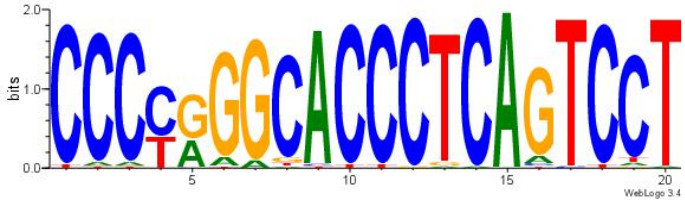

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0817471

Alignment:

```
AGTGTTTCCAAMCTGCT
TGTGCGTCC--------
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

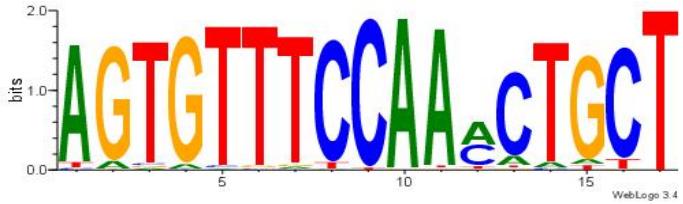

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

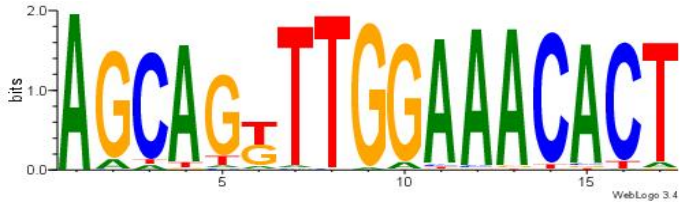

Dataset #:	1

Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0820876

Alignment:

```
GGGAGGGATATATTAGC
-GGACGCACA-------
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

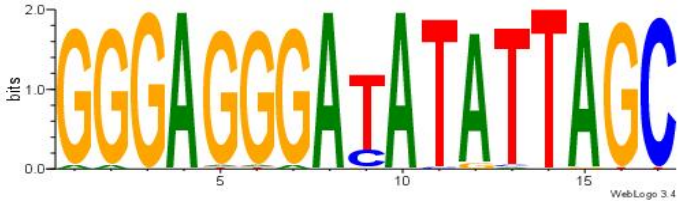

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

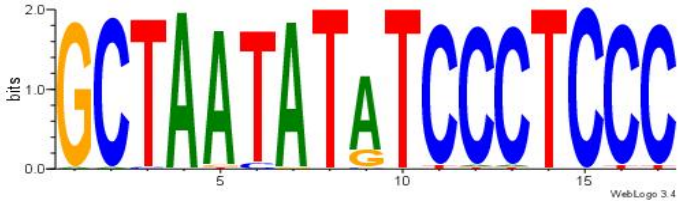

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0821731

Alignment:
CTGCGTCGCTCAC
---GGACGCACA-

Original motif Consensus sequence: CTGCGTCGCTCAC

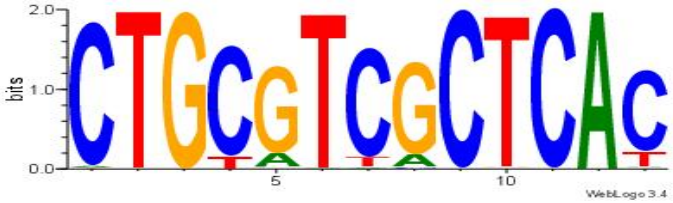

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

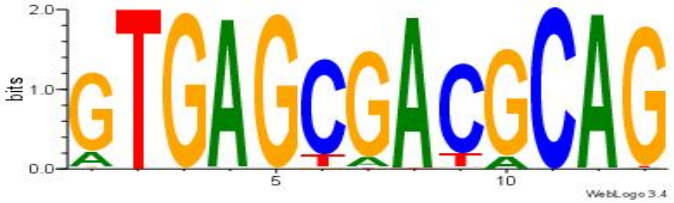

Dataset #: 1
Motif ID: 5
Motif name: Motif 5
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 9
Similarity score: 0.0823928

Alignment:
CCTCRGCCTCC
TGTGCGTCC--

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0832609

Alignment:

```
TCTGGAGTGGACCTCCAGCA
--------GGACGCACA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

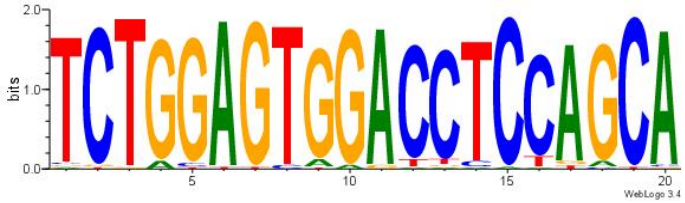

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

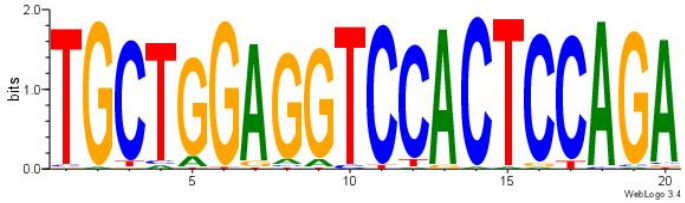

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0840125

Alignment:

```
ATCTGACAGGAGGYRGAGCT
--------GGACGCACA---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

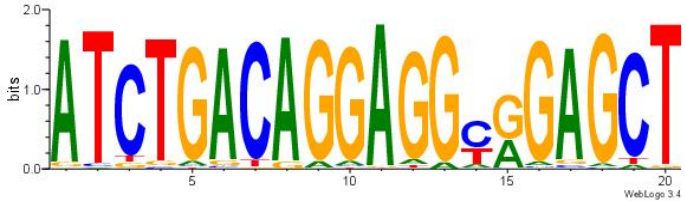

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

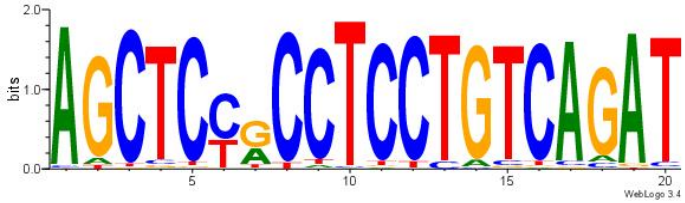

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9

Similarity score: 0.0856003

Alignment:
MGTCTMKCTCTGTKGCCCAG
--------TGTGCGTCC---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

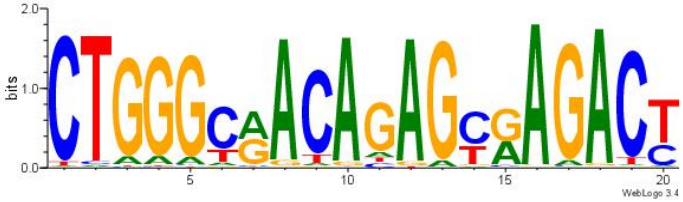

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

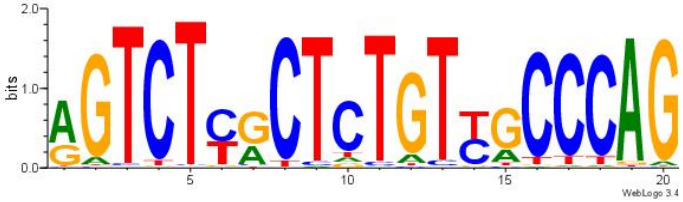

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0857034

Alignment:
GCGCTCKTCGGGGAGGCTCG
-----------GGACGCACA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

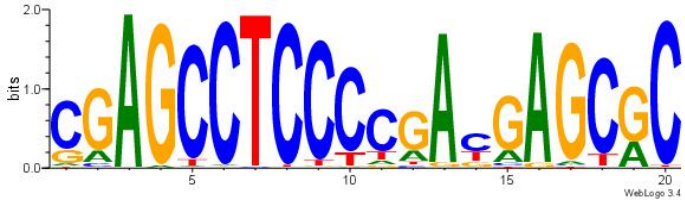

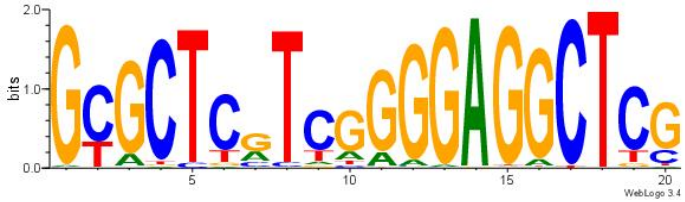

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0857744

Alignment:

```
CCCACGCCCACCCGGAACT
-GGACGCACA---------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

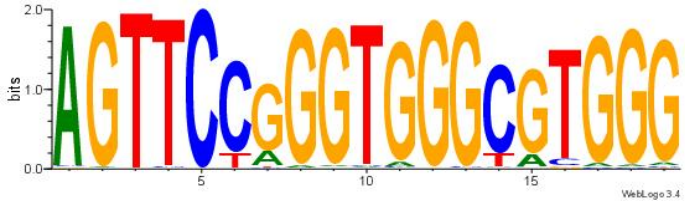

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

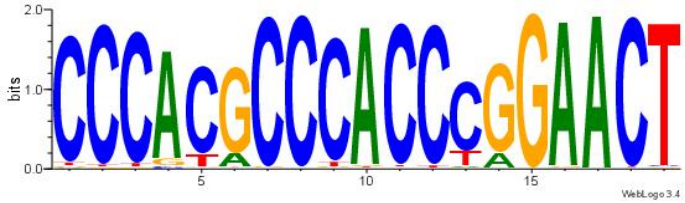

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0861841

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--------GGACGCACA---
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

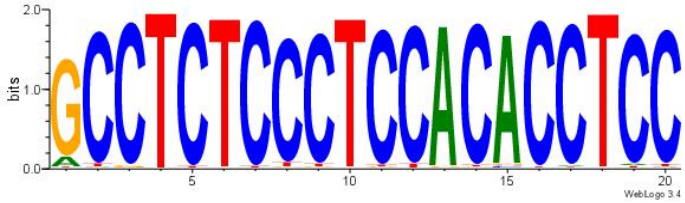

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

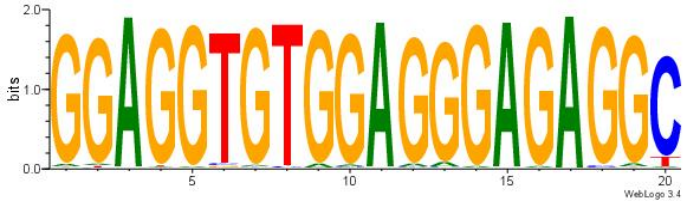

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9

Similarity score: 0.0862375

Alignment:
GACATGGAGTCAAAGG
-----GGACGCACA--

Original motif Consensus sequence: GACATGGAGTCAAAGG

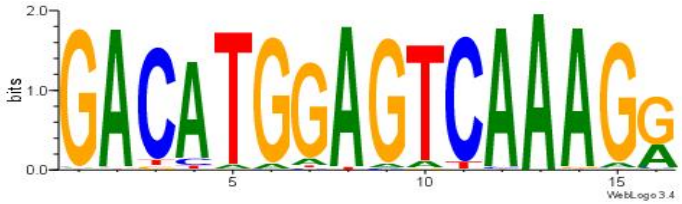

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

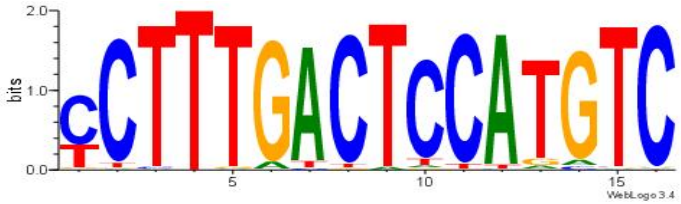

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0867638

Alignment:
TGTATTAGTCMMTT
--TGTGCGTCC---

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

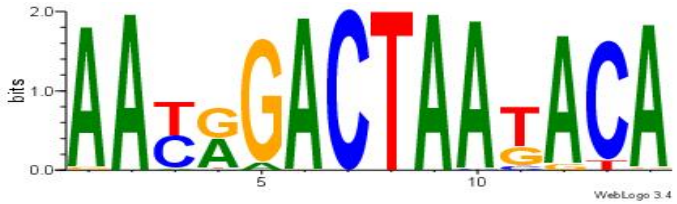

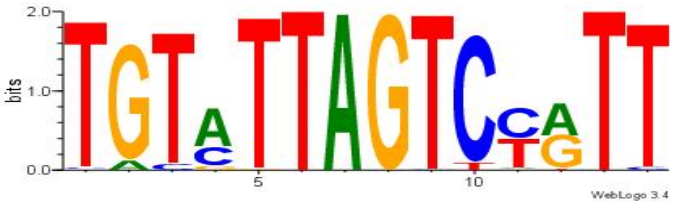

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0872879

Alignment:

```
AATTAAAAGACACAGACTG
-------GGACGCACA---
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

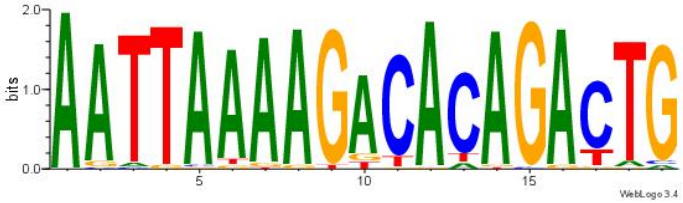

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

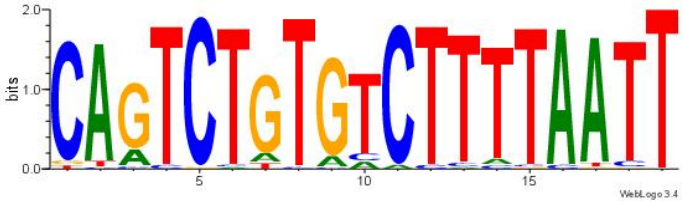

Dataset #:	1

Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0873533

Alignment:

```
CGGCTCGCGCACGG
---GGACGCACA--
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

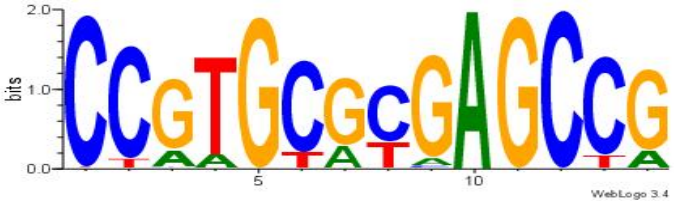

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

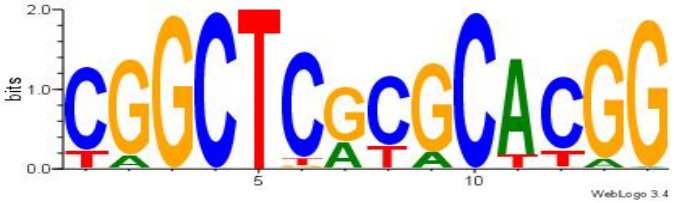

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.088207

Alignment:
CATCTGGAGCCCCA
-----GGACGCACA

Original motif Consensus sequence: CATCTGGAGCCCCA

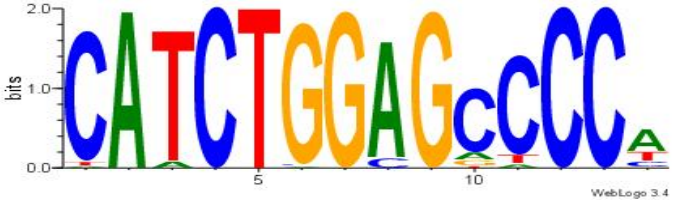

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

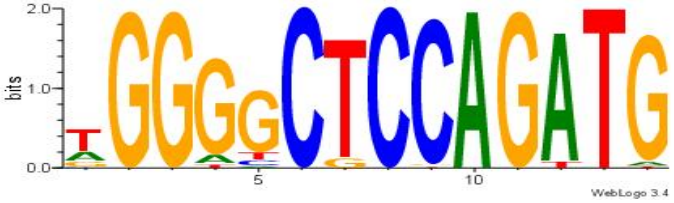

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0884002

Alignment:
TGCACTGCACCCAC
---TGTGCGTCC--

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

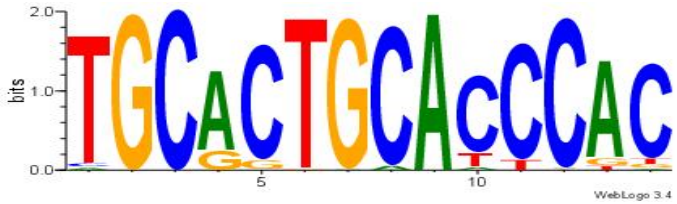

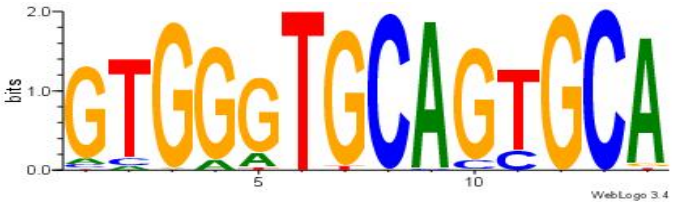

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.089762

Alignment:

```
GCCCTCACCAGAAGC
GGACGCACA------
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

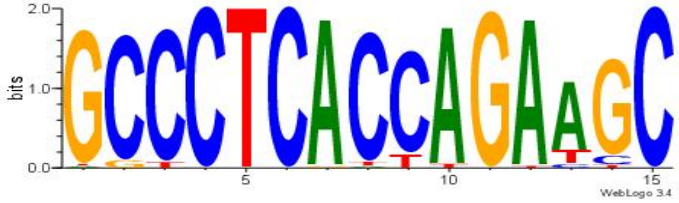

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

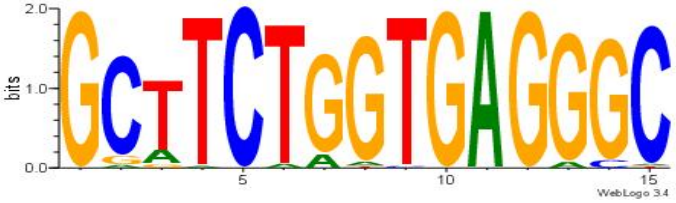

Dataset #:	1
Motif ID:	110

Motif name:	Motif 110
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.090494

Alignment:

```
TGGCACCCCAT
-GGACGCACA-
```

Original motif Consensus sequence: ATGGGGTGCCA

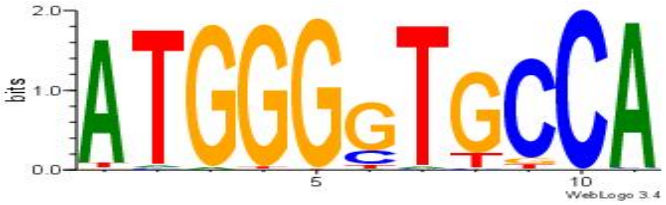

Reverse complement motif Consensus sequence: TGGCACCCCAT

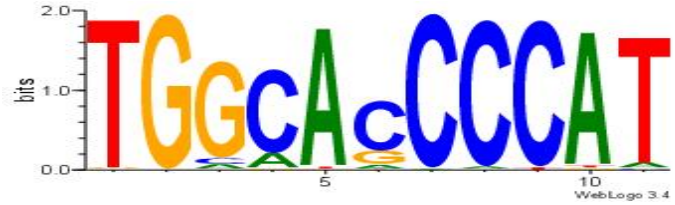

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0907551

Alignment:
CRTGAGCCACYGYRCCYGGC
--TGTGCGTCC---------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

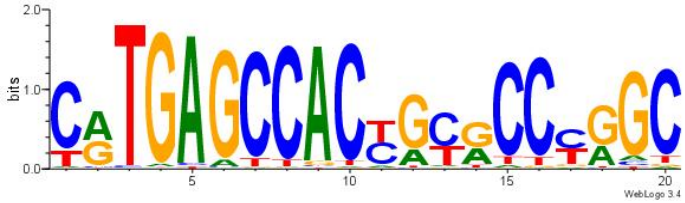

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

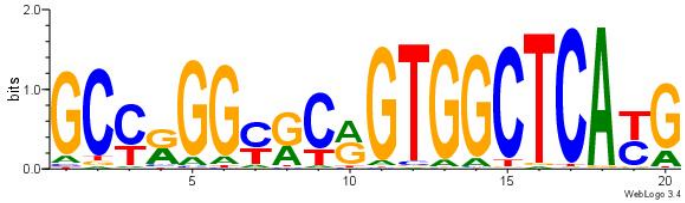

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0910258

Alignment:
GGCATCACGGATCCTACCAA
GGACGCACA-----------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

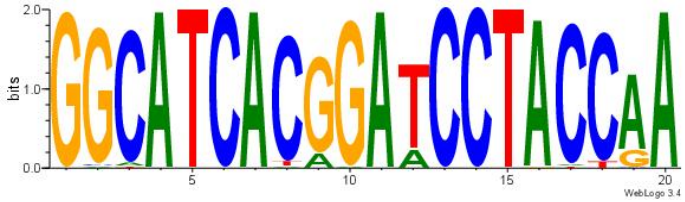

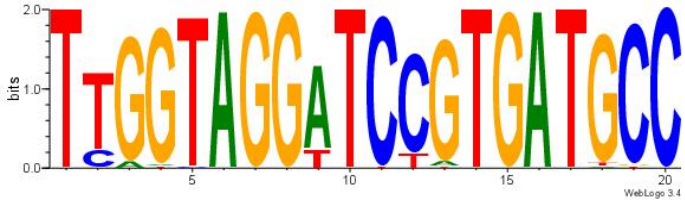

Dataset #: 1 **Motif ID: 35** **Motif name: Motif 35**

Original motif Consensus sequence: CAGAAATCACCCGTCTT

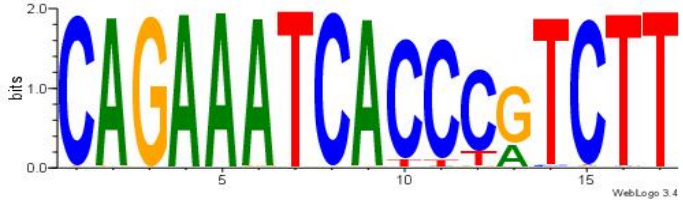

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

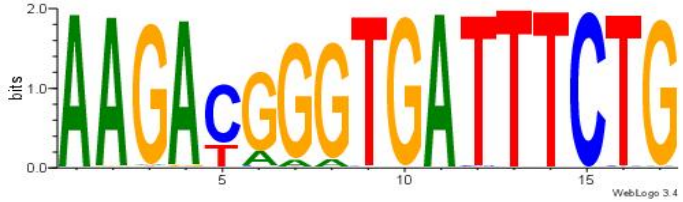

Best Matches for Motif ID 35 (Highest to Lowest)

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.104456

Alignment:

TGGAGAACCTTTATGTCTAG
--AAGACGGGTGATTTCTG-

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

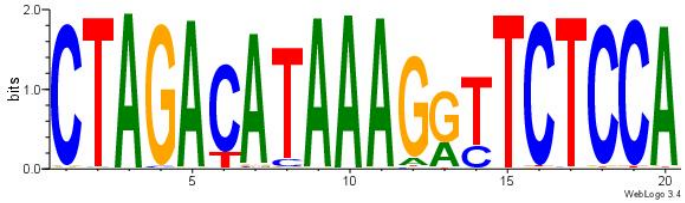

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

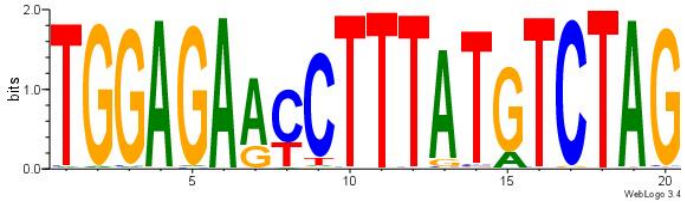

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.109156

Alignment:
GCTGCARTCTCGGCACTTT
-CAGAAATCACCCGTCTT-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

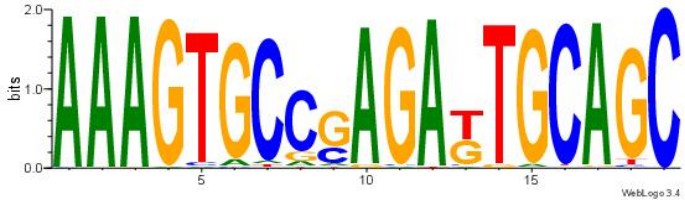

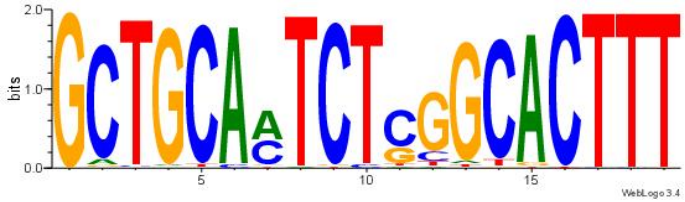

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.112474

Alignment:

```
GTAGACKGGAGCTGTTCCT
-AAGACGGGTGATTTCTG-
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

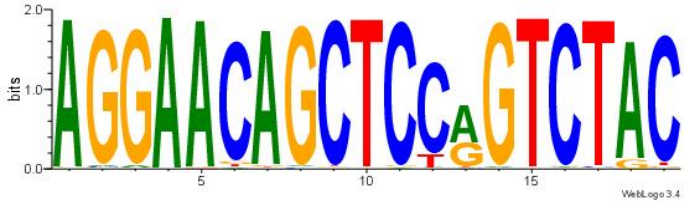

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

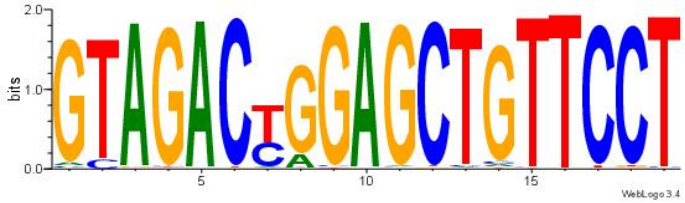

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.113142

Alignment:

```
GGCAATGCCTCGCCCTGCTT
CAGAAATCACCCGTCTT---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

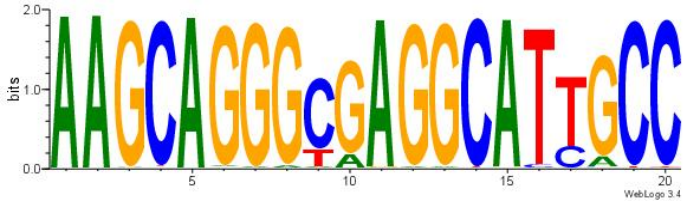

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

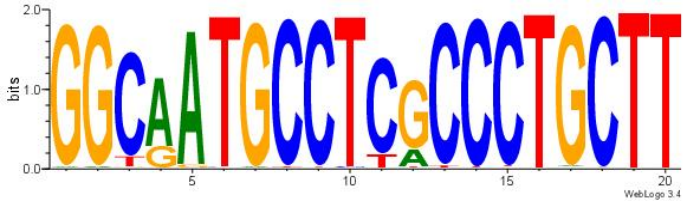

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.11691

Alignment:
GCCAATTTCTCCCATTTGGA
-CAGAAATCACCCGTCTT--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

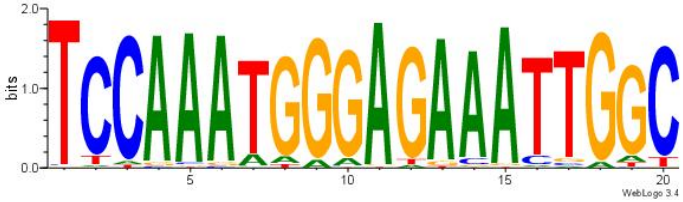

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

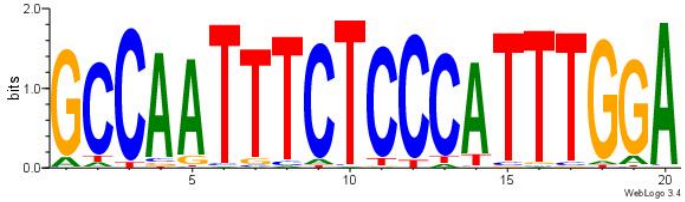

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.117078

Alignment:
AGGACTGAGGGTGCCYRGGG
AAGACGGGTGATTTCTG---

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

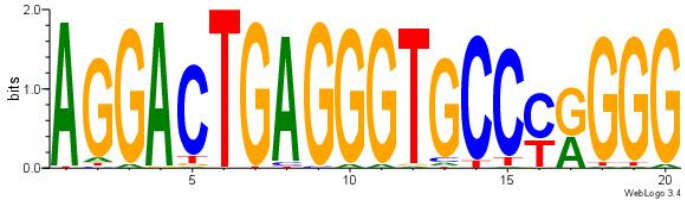

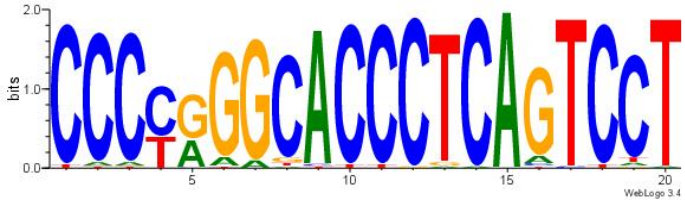

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.118116

Alignment:

```
TGAGKCAATTAAACCTCTT
--CAGAAATCACCCGTCTT
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

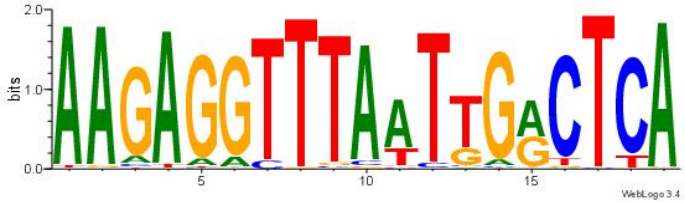

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

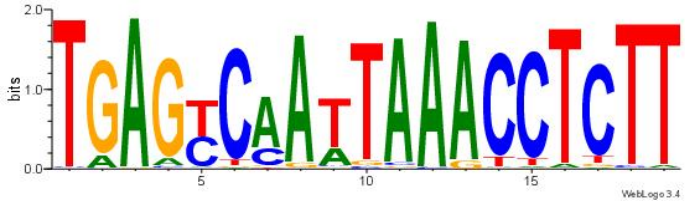

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.119519

Alignment:

```
ATAAAAACTTGCTGGTTTT
--CAGAAATCACCCGTCTT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

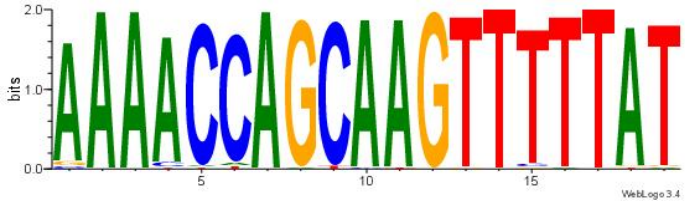

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

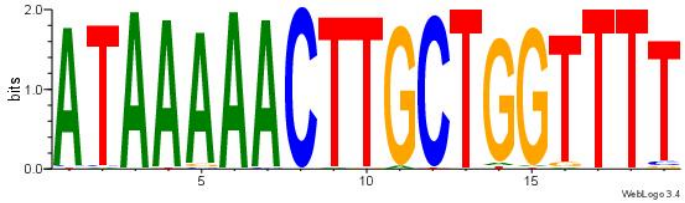

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.120745

Alignment:
CCCAAATCTCATSTTGAAT
CAGAAATCACCCGTCTT--

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

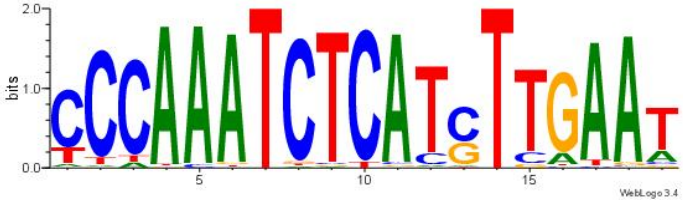

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

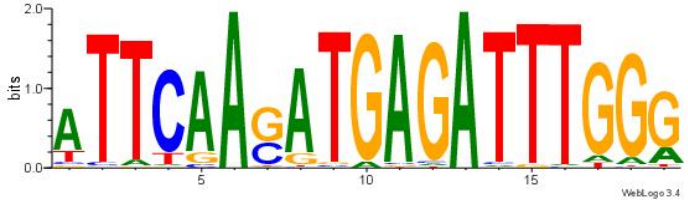

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.124029

Alignment:
KCCGGGCCTTAGCTGCCTTC
--CAGAAATCACCCGTCTT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

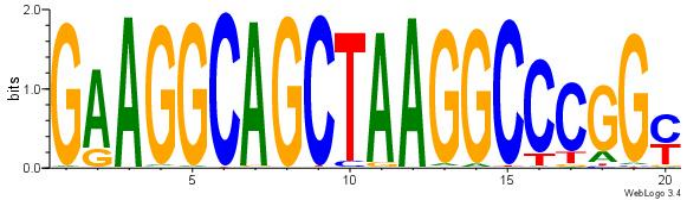

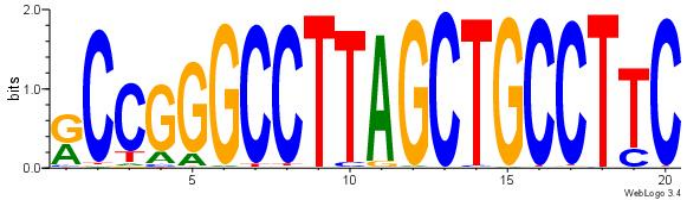

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.124909

Alignment:

```
AAAMAMMKMATGTTCTCACT
--AAGACGGGTGATTTCTG-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

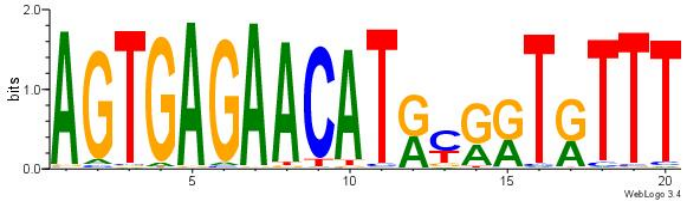

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

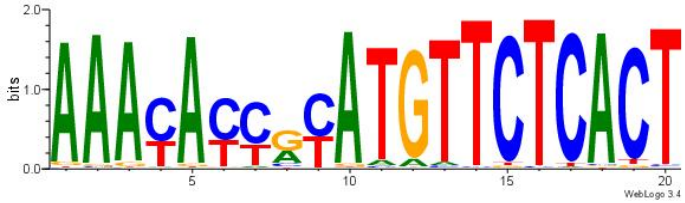

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.125151

Alignment:

```
CCCYAATACTGCGCTTTTC
-CAGAAATCACCCGTCTT-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

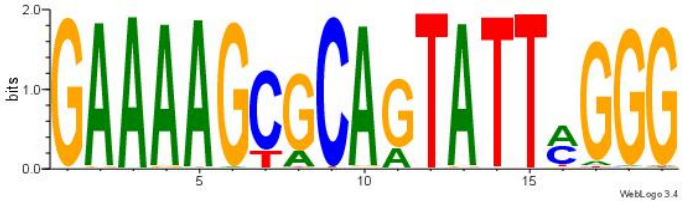

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

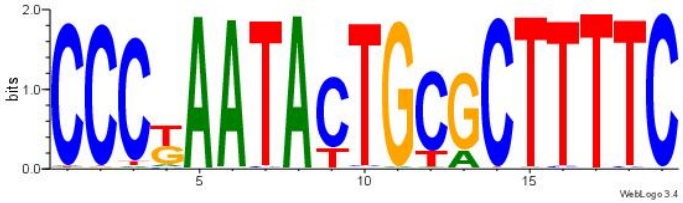

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.12563

Alignment:
GCACATGTAYCCYAGAACTT
---CAGAAATCACCCGTCTT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

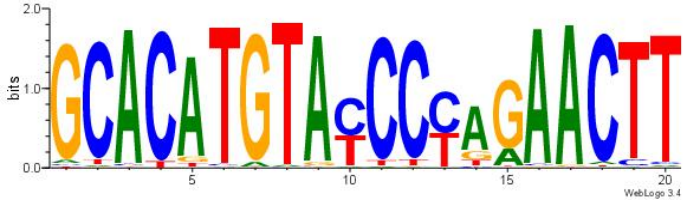

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

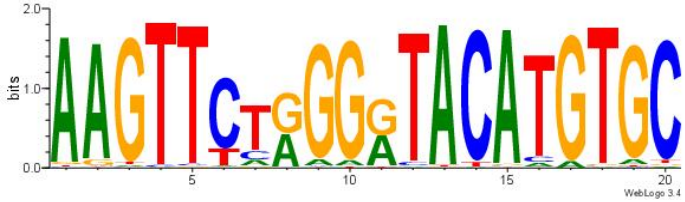

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.127847

Alignment:
GTKTMTATMTACCACATTTT
---CAGAAATCACCCGTCTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

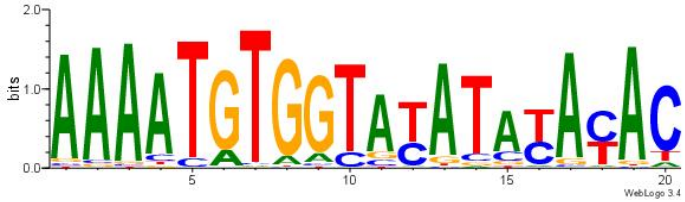

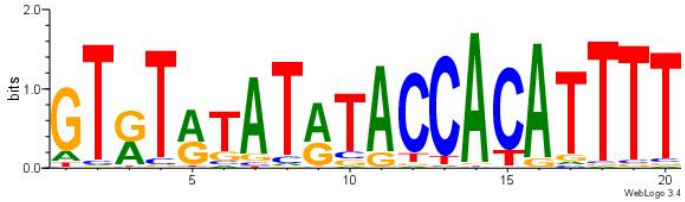

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.128759

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-AAGACGGGTGATTTCTG--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

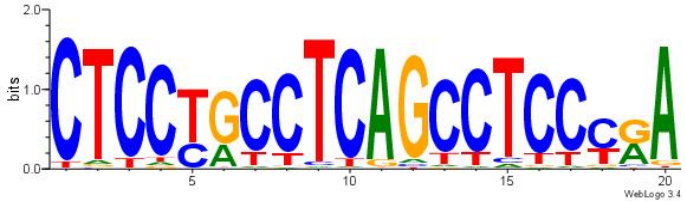

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

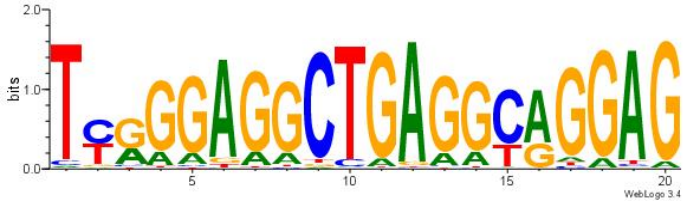

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.129695

Alignment:

```
CACCAGACTCAGGAGCCCAG
---AAGACGGGTGATTTCTG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

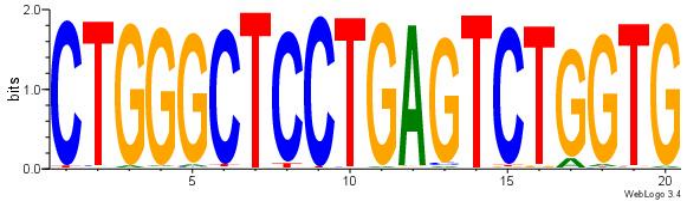

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

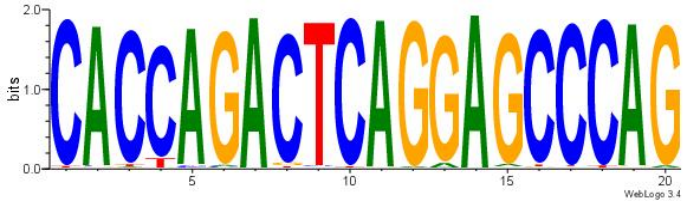

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.130448

Alignment:
CMCAGTTCACAATAGGGTT
--CAGAAATCACCCGTCTT

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

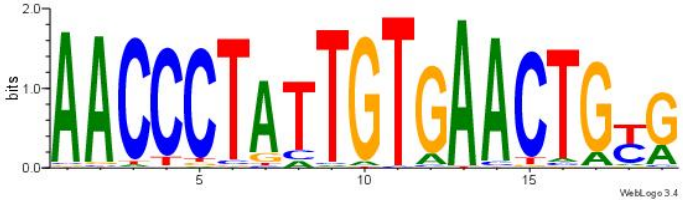

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

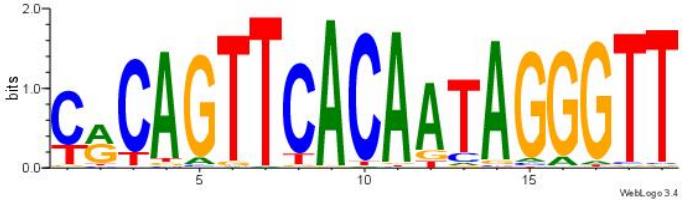

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.130882

Alignment:
TAGATAATAGCTCCAGCTTT
---CAGAAATCACCCGTCTT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

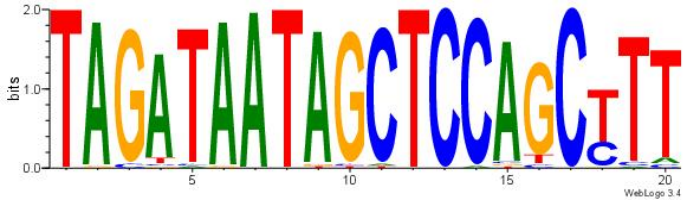

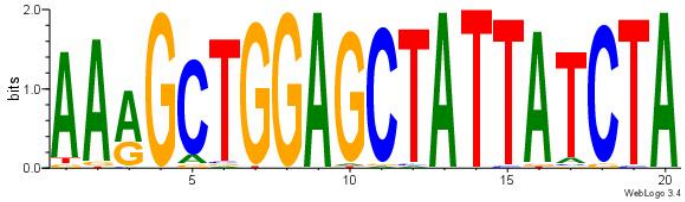

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.130959

Alignment:

```
GAAACTGCTTTGTGATGTGT
AAGACGGGTGATTTCTG---
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

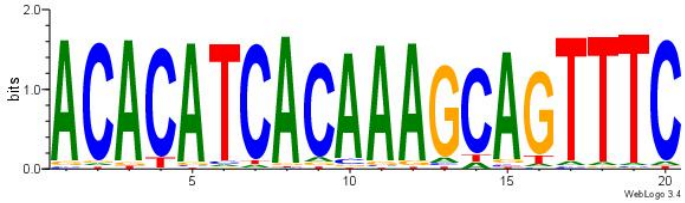

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

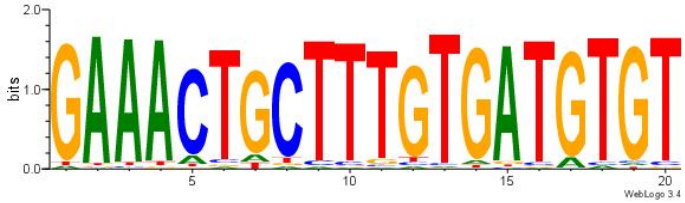

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.131101

Alignment:

```
CAACATGGATGRARCTGGAG
-AAGACGGGTGATTTCTG--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

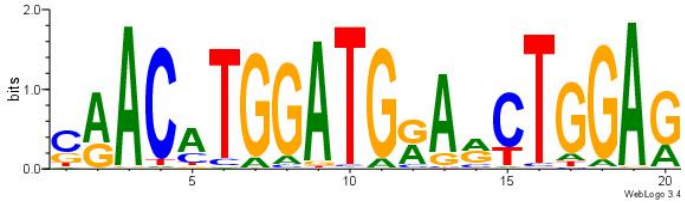

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

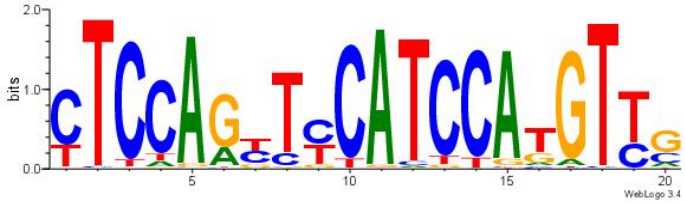

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.131273

Alignment:
TTCAMTCATGATTTGGCTCT
AAGACGGGTGATTTCTG---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

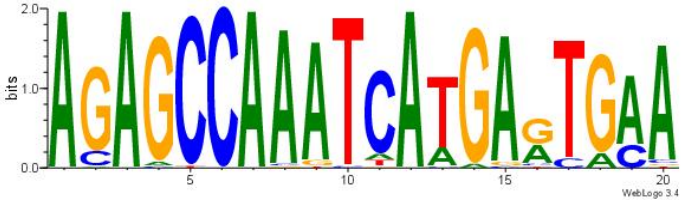

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

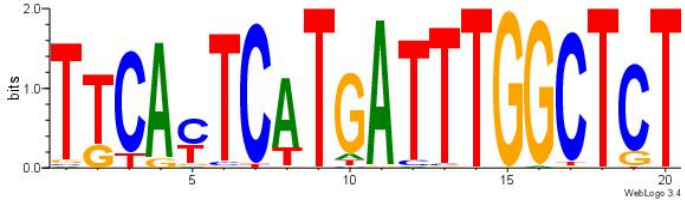

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.1322

Alignment:
AATGAKATCATGTCYTTTGC
-CAGAAATCACCCGTCTT--

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

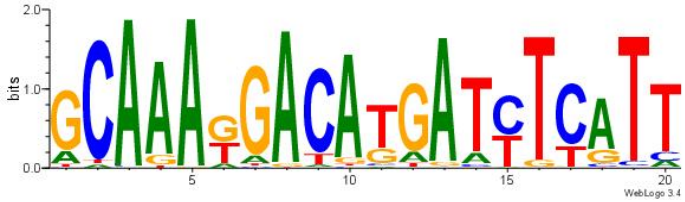

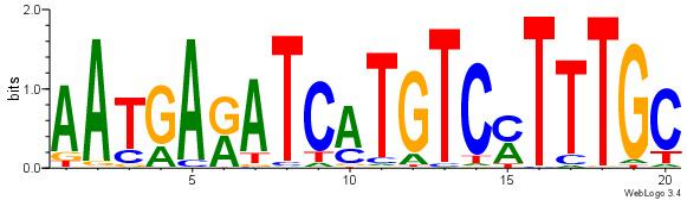

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.132611

Alignment:

```
AAGTCTCCCAATTACAACT
AAGACGGGTGATTTCTG--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

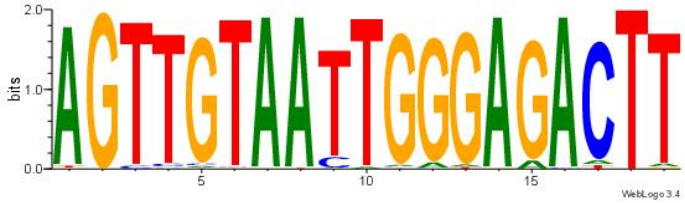

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

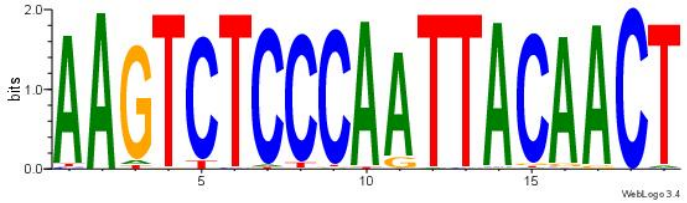

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.132971

Alignment:

```
GAATCCTGGGACAGCCTGT
-AAGACGGGTGATTTCTG-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

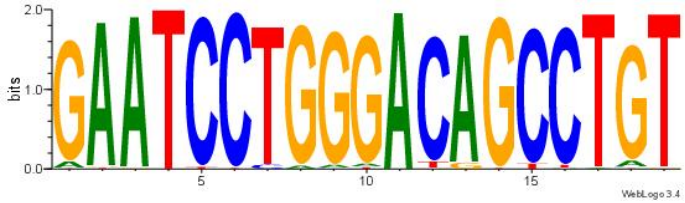

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

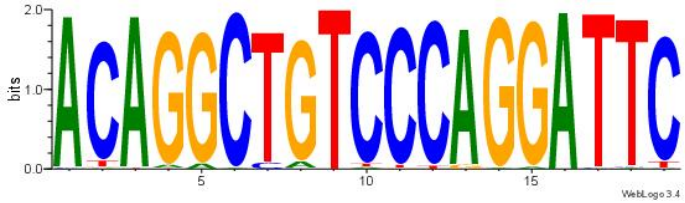

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.133121

Alignment:
AAATTAGGCCAATTAATAAC
-AAGACGGGTGATTTCTG--

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

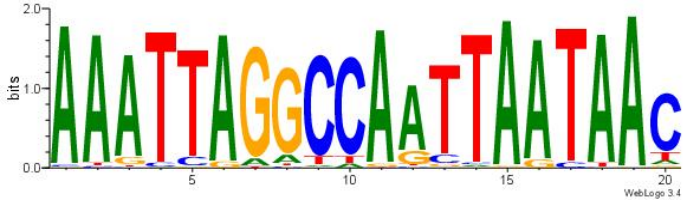

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.133249

Alignment:
GTGTCKGGAGTTTGTTCCTT
AAGACGGGTGATTTCTG---

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

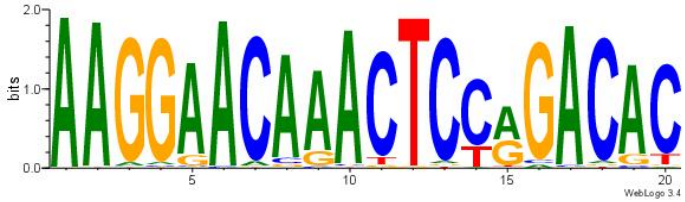

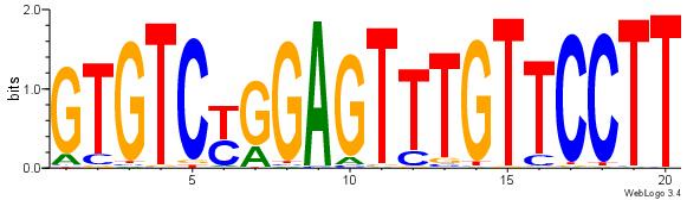

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.133594

Alignment:

```
ACATCMTCTGAAATCTAGG
AAGACGGGTGATTTCTG--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

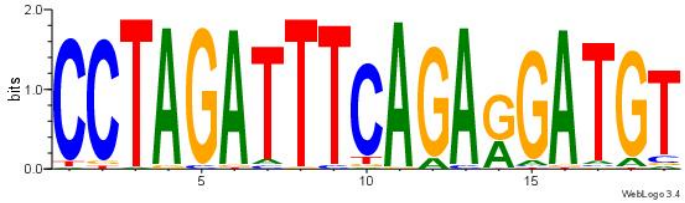

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

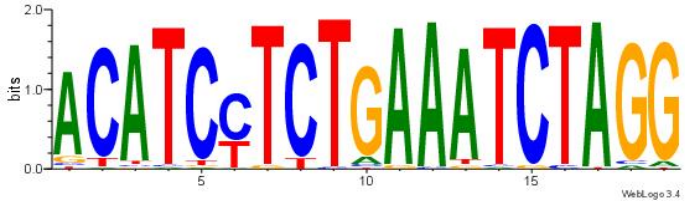

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.133649

Alignment:

```
ACCTGGAAAATCGGGTCACT
--CAGAAATCACCCGTCTT-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

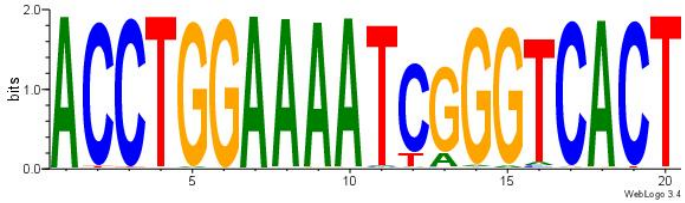

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

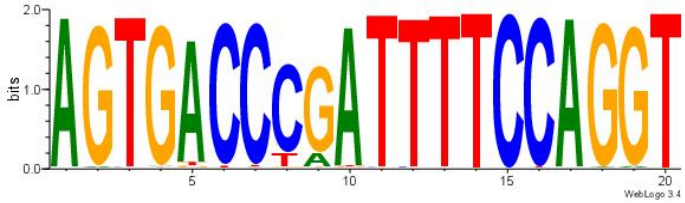

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.134081

Alignment:
ATGGCTGAATAKTATTCCAT
AAGACGGGTGATTTCTG---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

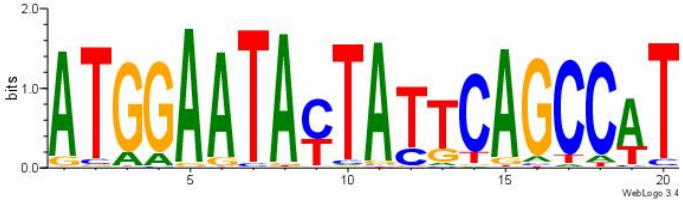

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

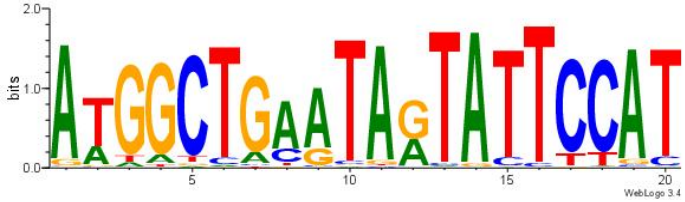

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.136036

Alignment:
ATGGCCTATGACYGSTTTG
AAGACGGGTGATTTCTG--

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

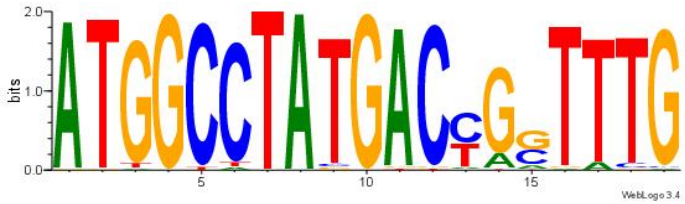

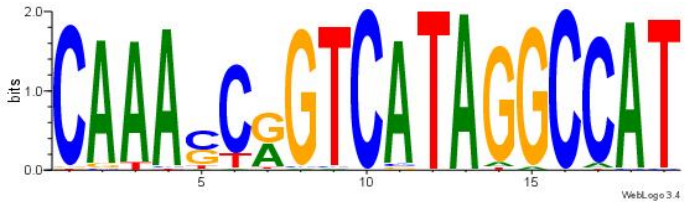

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.136369

Alignment:

```
AGGAGRCMCTCTGCCTGGC
AAGACGGGTGATTTCTG--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

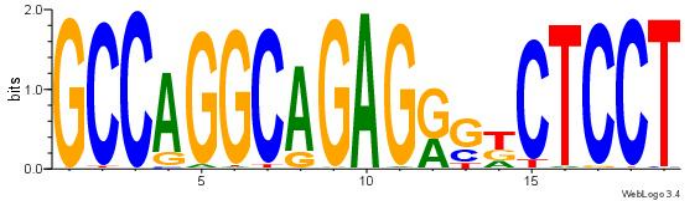

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

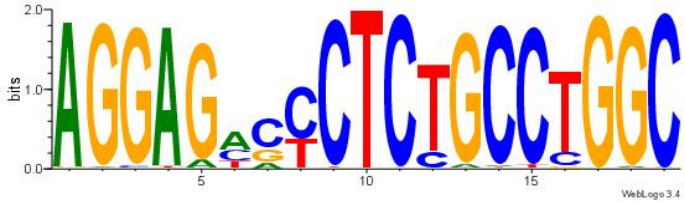

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.136492

Alignment:

```
AAAATCACAAGCATTCCTAT
--AAGACGGGTGATTTCTG-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

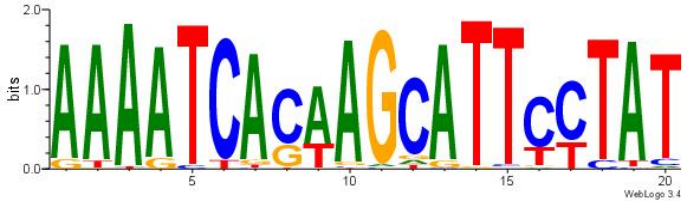

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

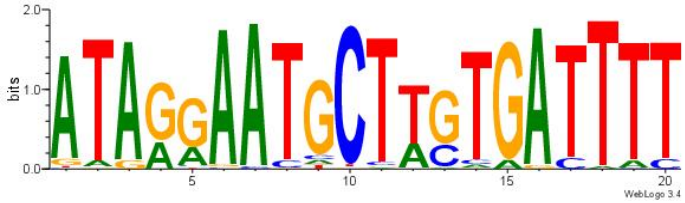

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.136692

Alignment:
ACCCAATWTGTAGTCTTTTA
CAGAAATCACCCGTCTT---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

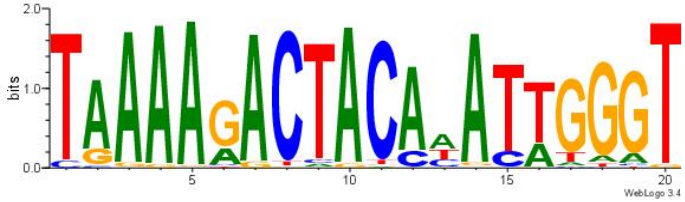

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

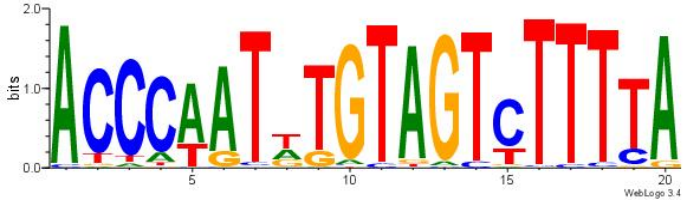

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.137425

Alignment:
CRTGAGCCACYGYRCCYGGC
CAGAAATCACCCGTCTT---

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

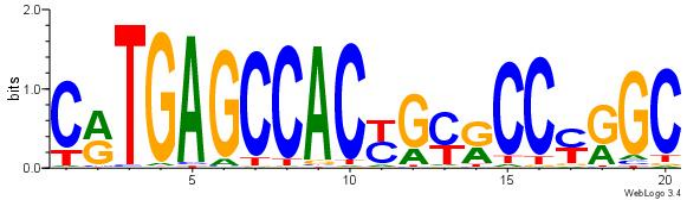

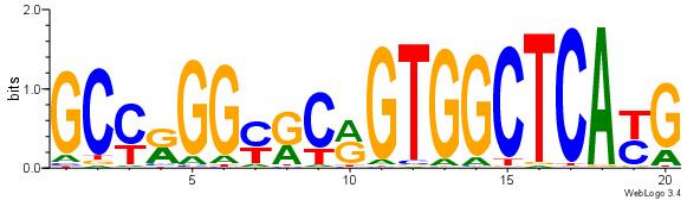

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.137481

Alignment:

```
GCAGCAMTATTCACAATAG
-CAGAAATCACCCGTCTT-
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

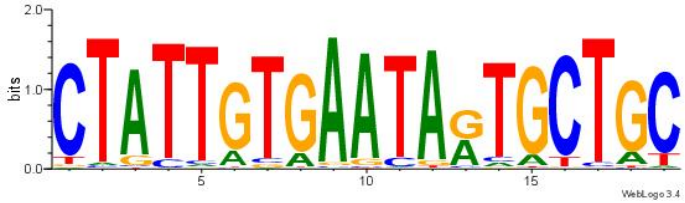

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

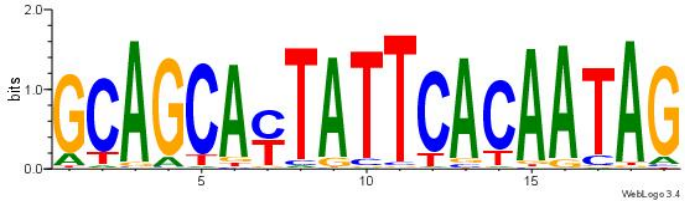

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.138296

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-CAGAAATCACCCGTCTT--
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

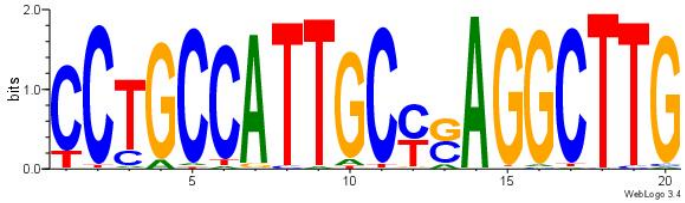

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

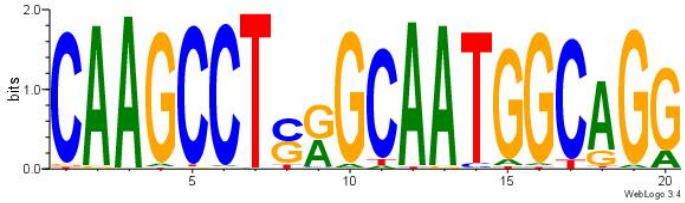

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.139119

Alignment:
TTGGTAGGATCCGTGATGCC
CAGAAATCACCCGTCTT---

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

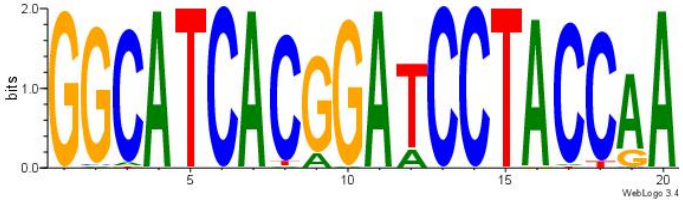

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

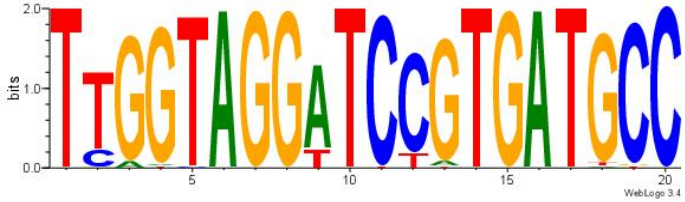

Dataset #: 1
Motif ID: 148
Motif name: Motif 148
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.139937

Alignment:
AAAGAGAGTCAGCGAAG
AAGACGGGTGATTTCTG

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence:
CTTCGCTGACTCTCTTT

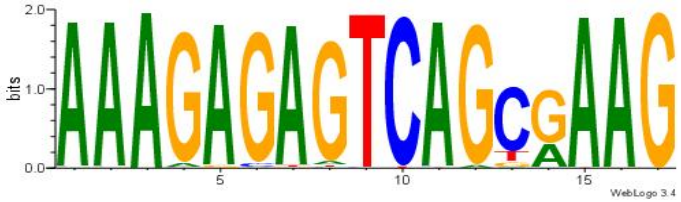

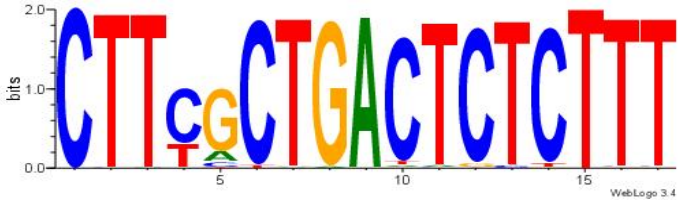

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.139964

Alignment:

```
AACAACASACACTGGGGCCT
--CAGAAATCACCCGTCTT-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

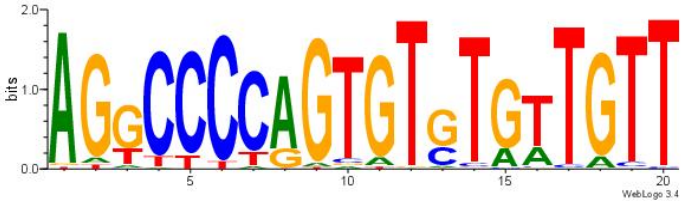

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

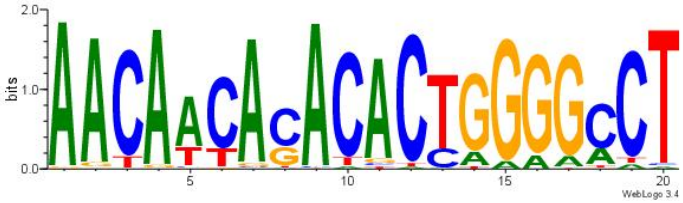

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.140311

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CAGAAATCACCCGTCTT---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

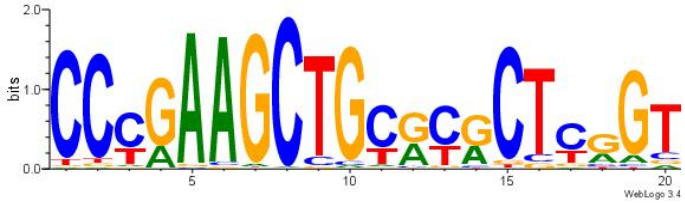

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

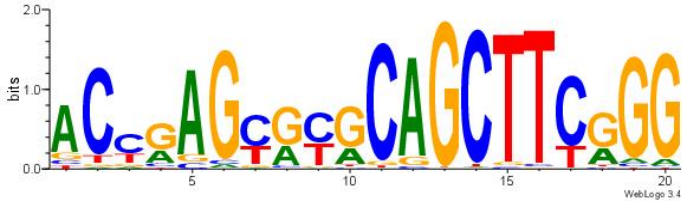

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.140313

Alignment:
AAGCTGAGGGAGCCGGCTCC
AAGACGGGTGATTTCTG---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

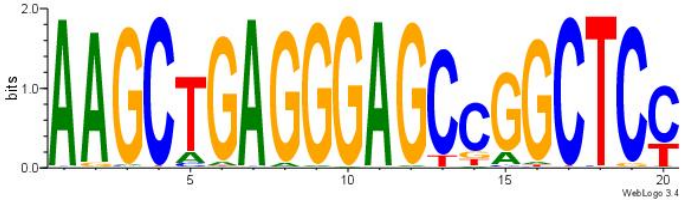

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

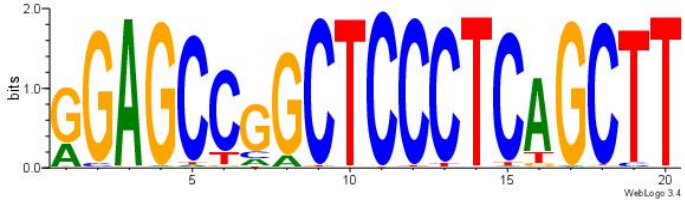

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.140364

Alignment:
TGCTGGAGGTCCACTCCAGA
--AAGACGGGTGATTTCTG-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

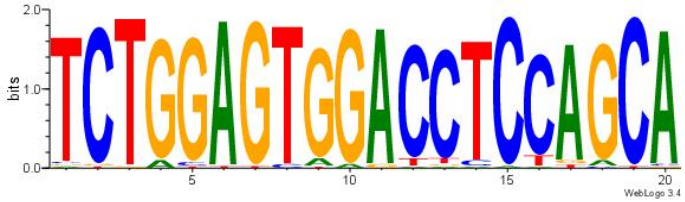

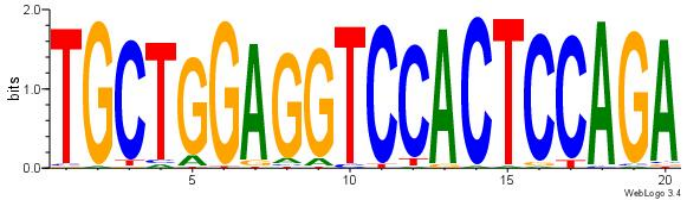

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.141076

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--CAGAAATCACCCGTCTT-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

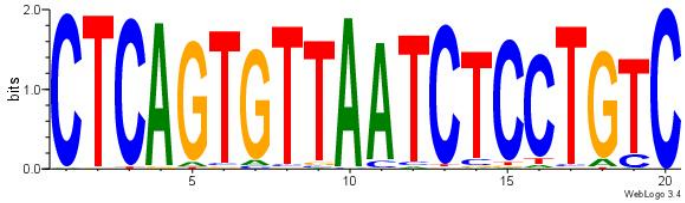

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

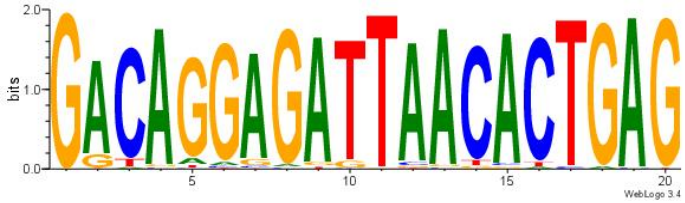

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.141156

Alignment:

```
GAAAGGGAACTCCCTGACCC
---CAGAAATCACCCGTCTT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

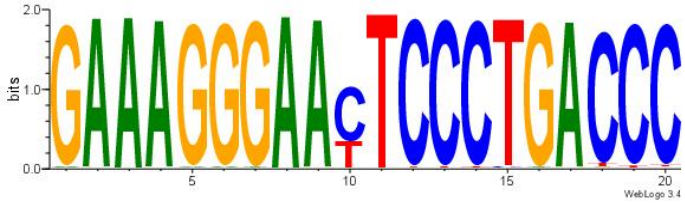

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

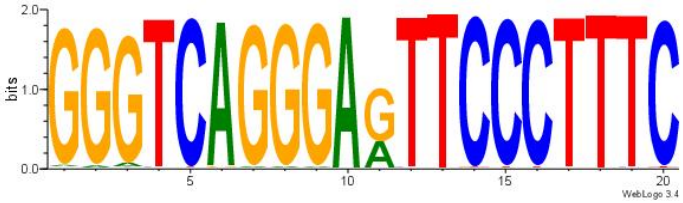

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.141406

Alignment:
ATGTGGAGGTGGAAGACAGT
--AAGACGGGTGATTTCTG-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

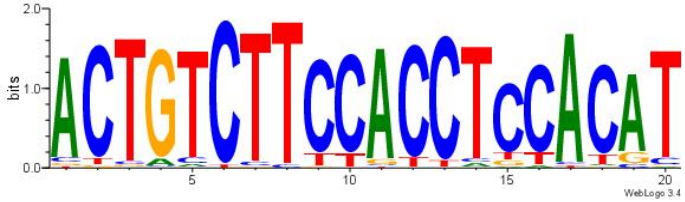

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

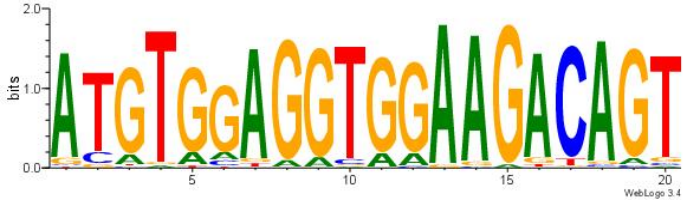

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.141481

Alignment:
TYTGTCMTTTTGTGACTGGC
-AAGACGGGTGATTTCTG--

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

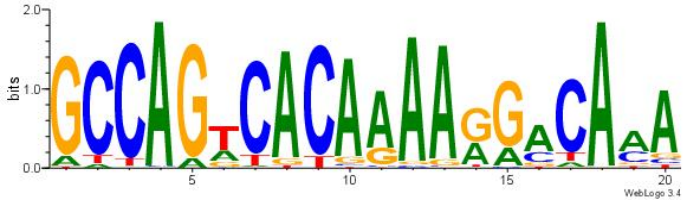

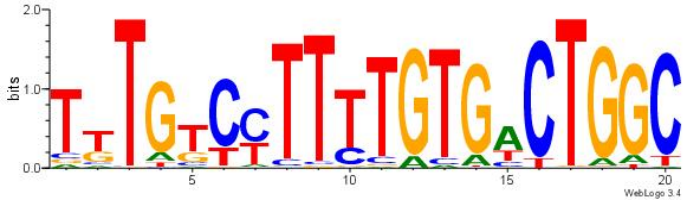

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.141656

Alignment:

```
AATTAAAAGACACAGACTG
-CAGAAATCACCCGTCTT-
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

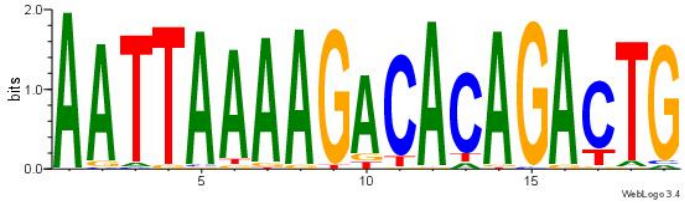

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

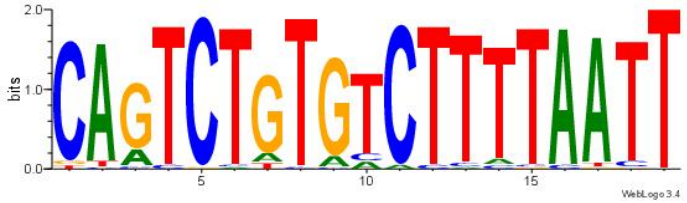

Dataset #: 1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.142253

Alignment:
ATCCATCCATCCATCCA
CAGAAATCACCCGTCTT

Original motif Consensus sequence: ATCCATCCATCCATCCA

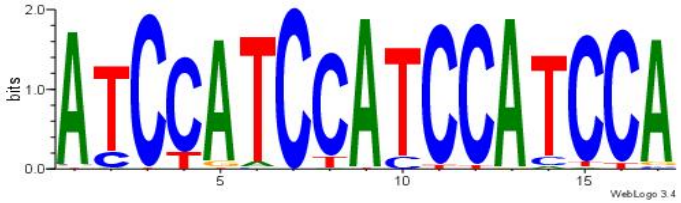

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.143733

Alignment:
ACCKTCGCGGTGAGTGTTAC
--AAGACGGGTGATTTCTG-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

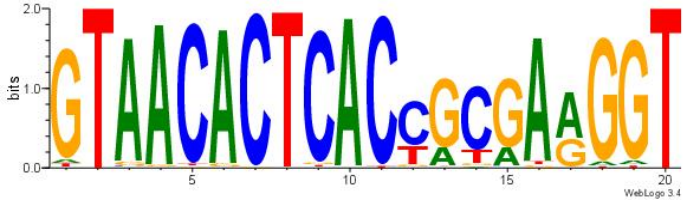

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

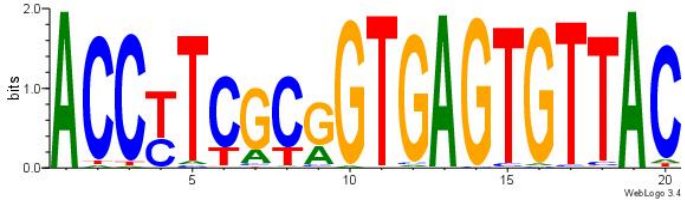

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.143744

Alignment:
GATACAAAATCAATGTR
CAGAAATCACCCGTCTT

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

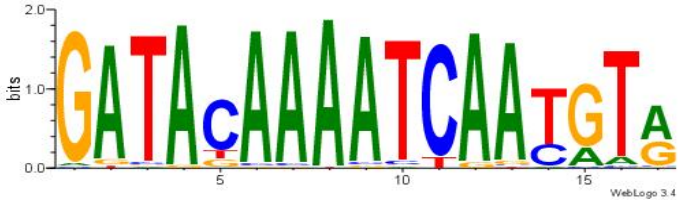

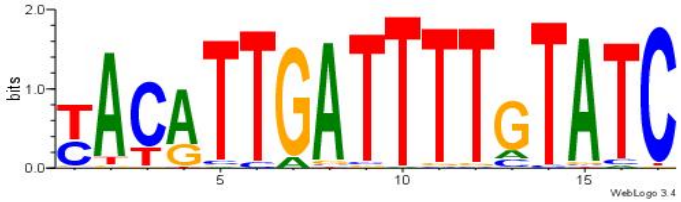

Dataset #: 1 **Motif ID: 36** **Motif name: Motif 36**

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

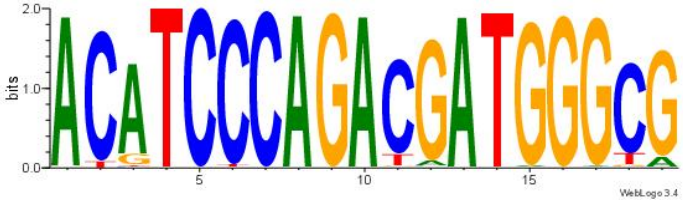

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

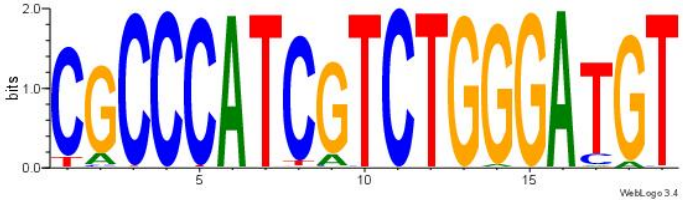

Best Matches for Motif ID 36 (Highest to Lowest)

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.102313

Alignment:

GCCKCCCCGTCCGGGAGGGA
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

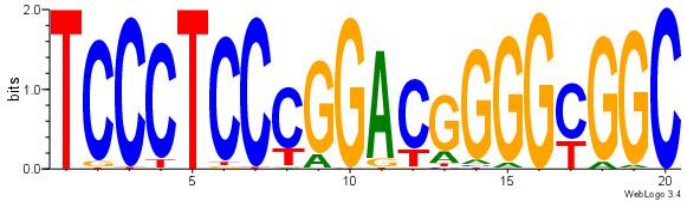

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

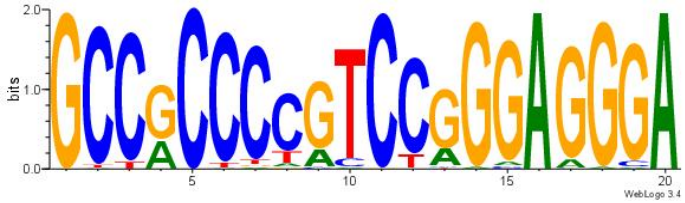

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.105478

Alignment:
AACAACASACACTGGGGCCT
-ACATCCCAGACGATGGGCG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

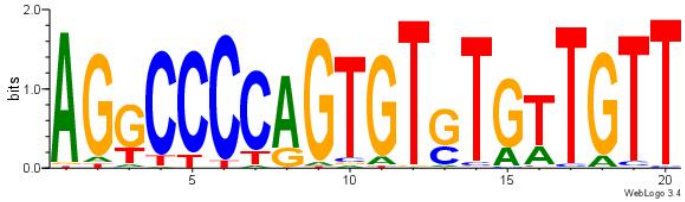

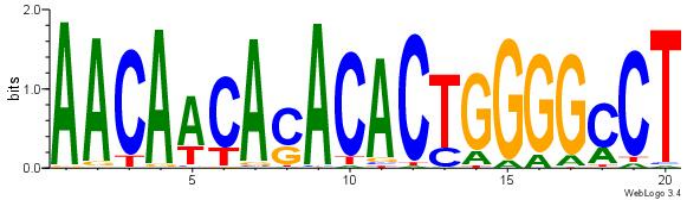

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.110347

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

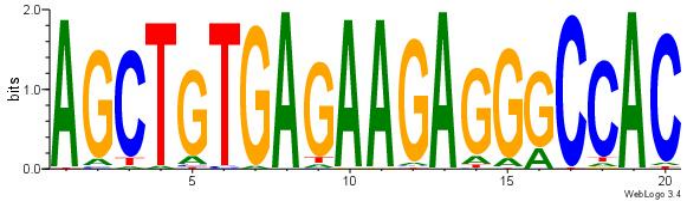

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

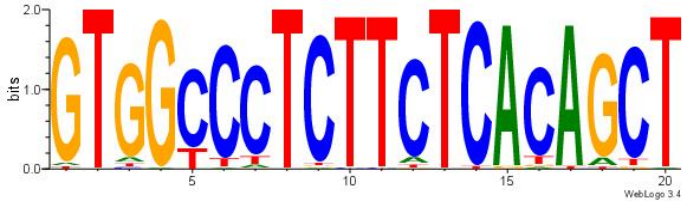

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.111784

Alignment:
AGATGCCAGCCAGAGCTCT
ACATCCCAGACGATGGGCG

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

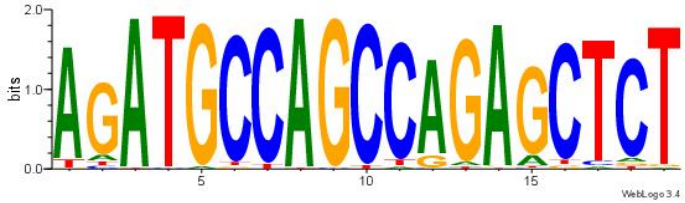

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

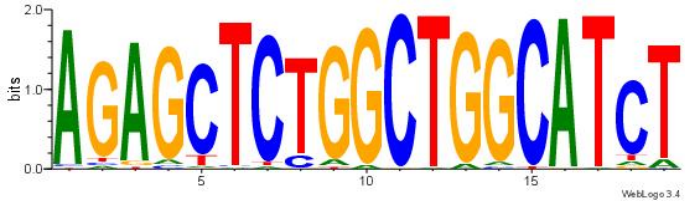

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.112924

Alignment:
TTGTCCCACTGGAAGGTCTT
ACATCCCAGACGATGGGCG-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

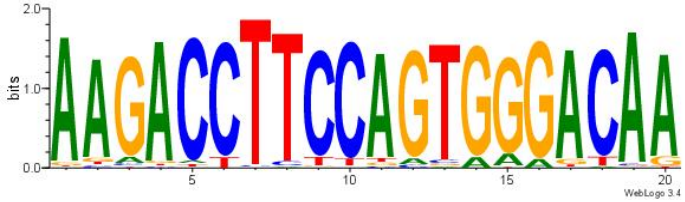

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

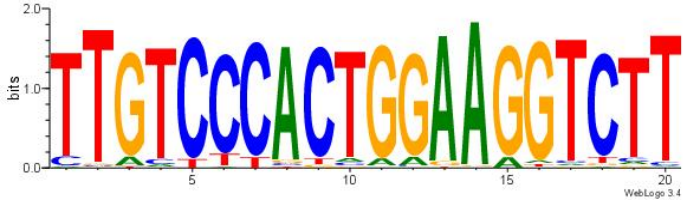

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.113352

Alignment:
GCCTCCTTGAGCTGTGGTGG
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

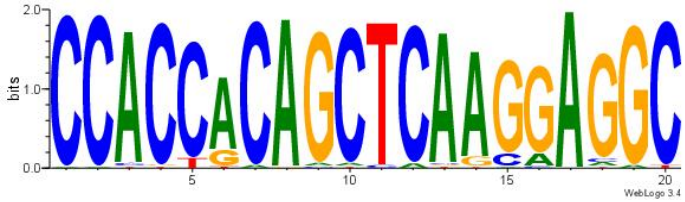

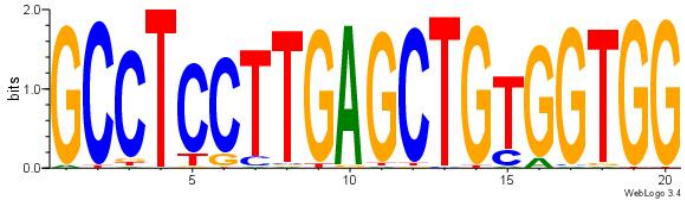

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.114682

Alignment:

```
AAGTCCAAGATCAAGGTGYY
ACATCCCAGACGATGGGCG-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

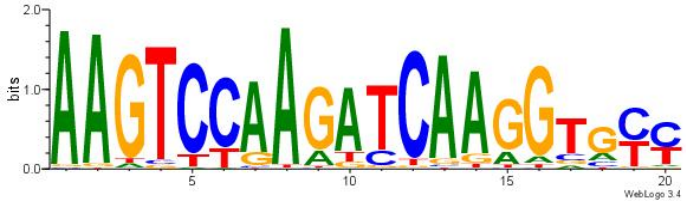

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

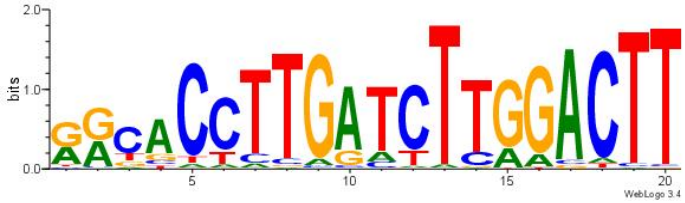

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116224

Alignment:

```
CAAGCCTSKGCAATGGCAGG
ACATCCCAGACGATGGGCG-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

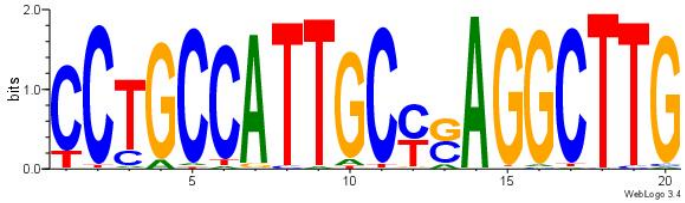

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

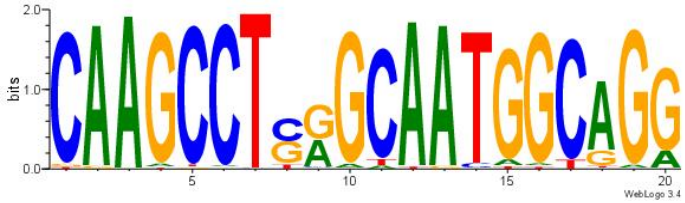

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.118135

Alignment:
CGAGCCTCCCCGAYGAGCGC
ACATCCCAGACGATGGGCG-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

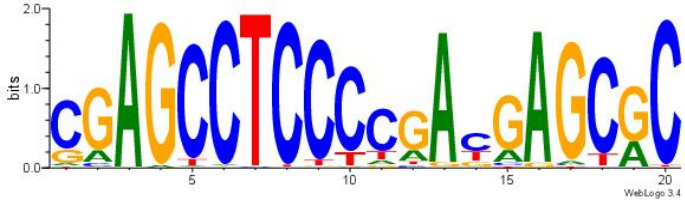

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

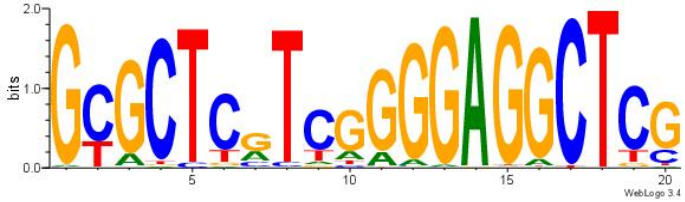

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.118926

Alignment:
CGTCGCTCACGCTGGGAGCT
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

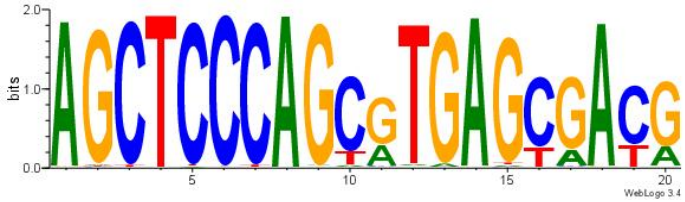

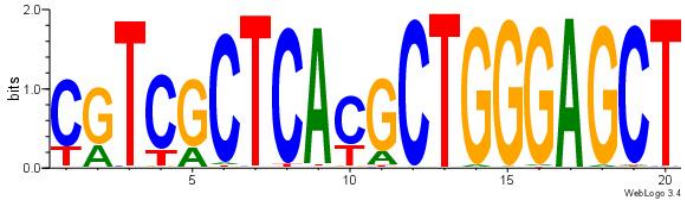

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.123372

Alignment:

```
GAATACCTCCTGAAGGACCT
ACATCCCAGACGATGGGCG-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

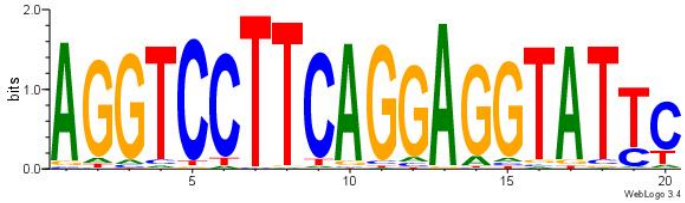

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

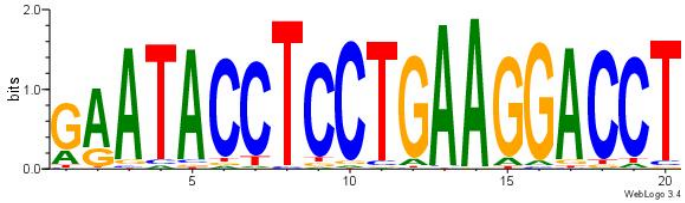

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.124434

Alignment:
AGTTCCGGGTGGGCGTGGG
ACATCCCAGACGATGGGCG

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

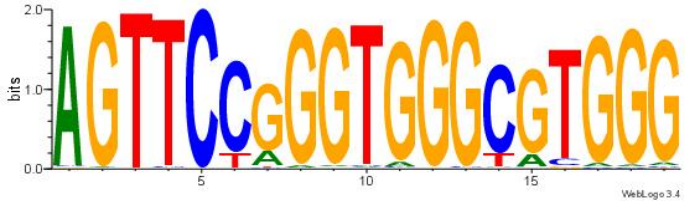

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

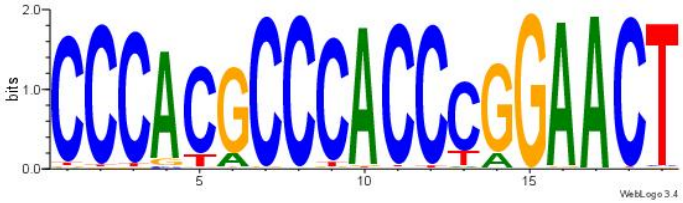

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.125297

Alignment:
AGCTCMKCCTCCTGTCAGAT
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

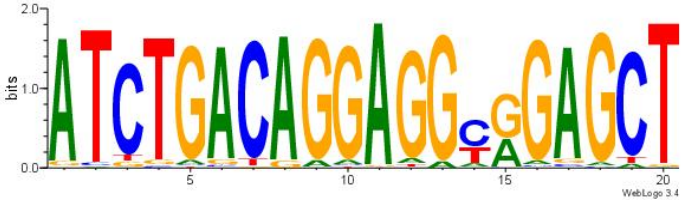

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

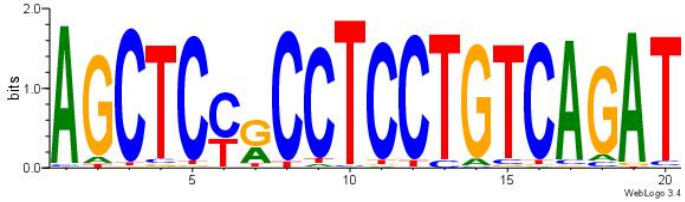

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.129618

Alignment:
ACATCMTCTGAAATCTAGG
ACATCCCAGACGATGGGCG

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

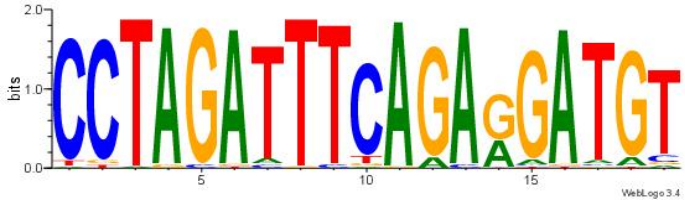

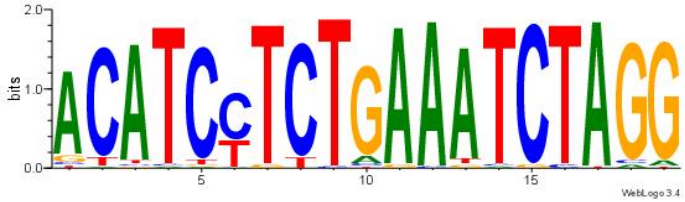

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132629

Alignment:

```
TTGGTAGGATCCGTGATGCC
CGCCCATCGTCTGGGATGT-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

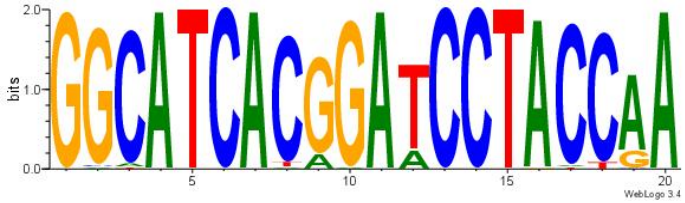

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

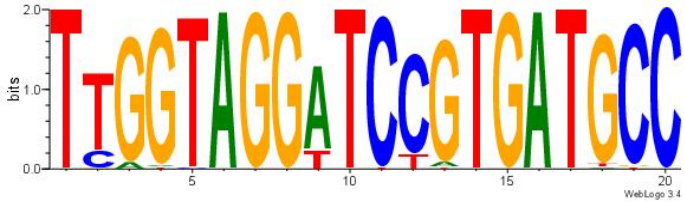

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.132894

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

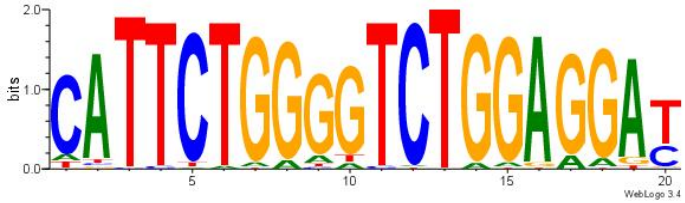

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

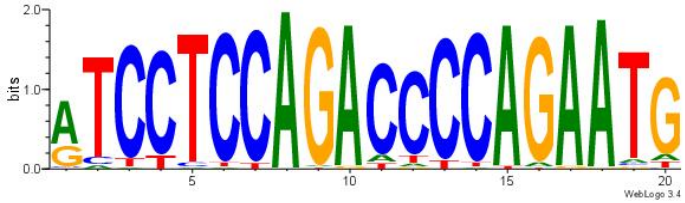

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.133266

Alignment:
CCGCTGCACTGTGGGAGCCC
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

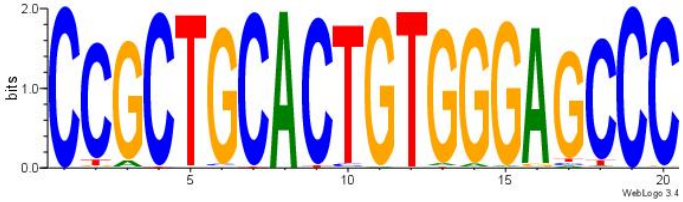

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

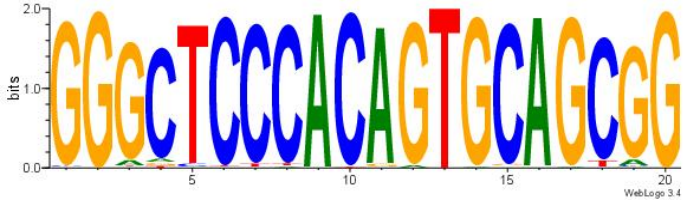

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.133717

Alignment:
AGCCCCGGTTCCCGCYCGC
CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

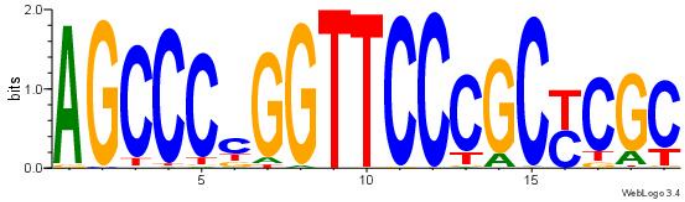

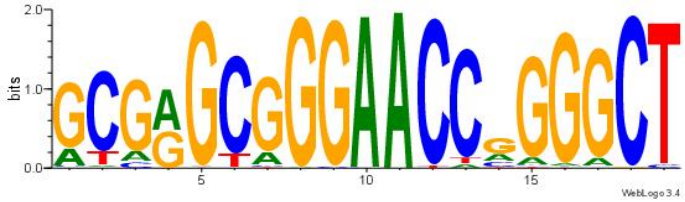

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133778

Alignment:

```
CAGTCTGTGTCTTTTAATT
CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

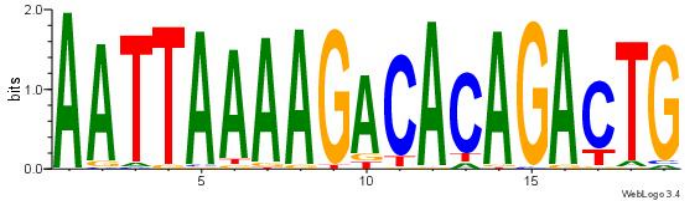

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

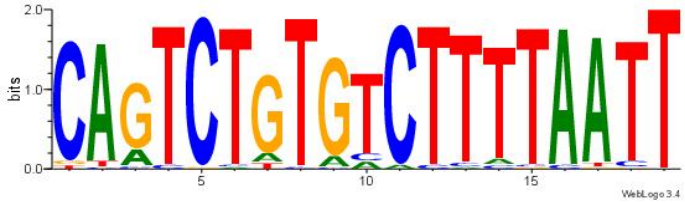

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.133876

Alignment:

```
CCCATGCAAGTCYRAAATCC
-ACATCCCAGACGATGGGCG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

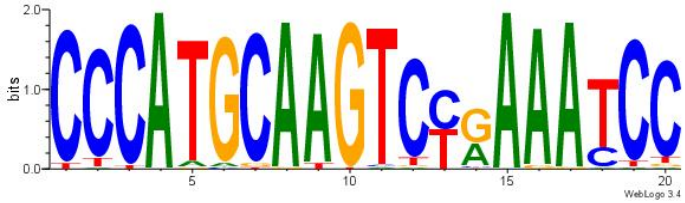

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

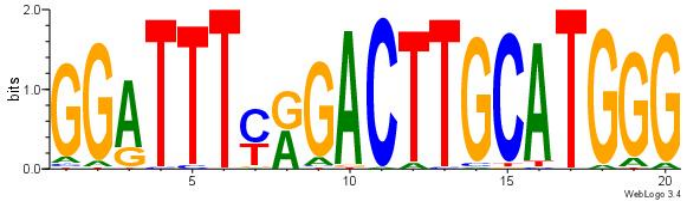

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.134478

Alignment:
GCTCCACCCAGTTCGAGCTT
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

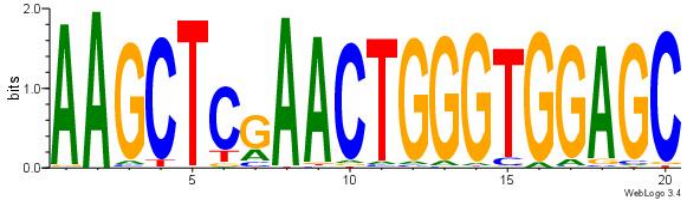

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

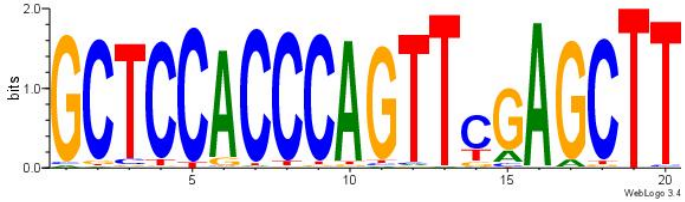

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.134945

Alignment:
GTCCCATCGACCACCCAAG
CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

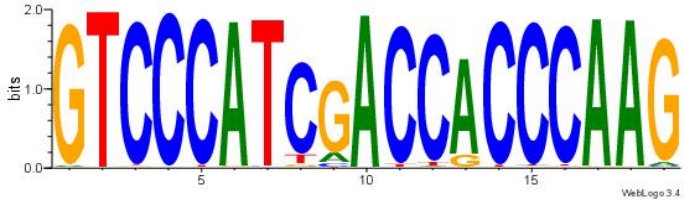

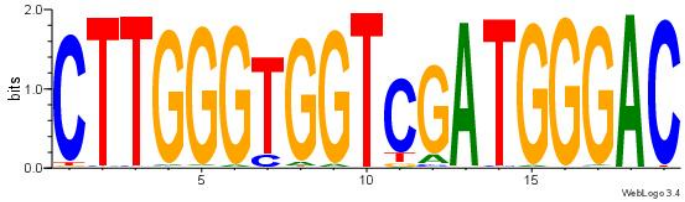

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135515

Alignment:

```
CGGCTTCATTCTTGAAGTC
CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

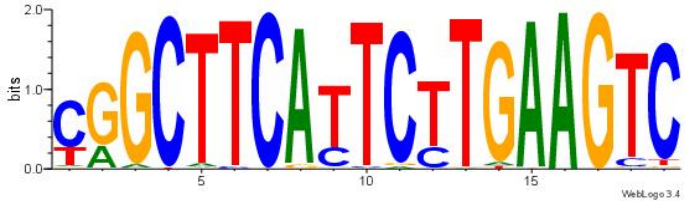

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.136846

Alignment:

```
AAGGAACAAACTCCRGACAC
ACATCCCAGACGATGGGCG-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

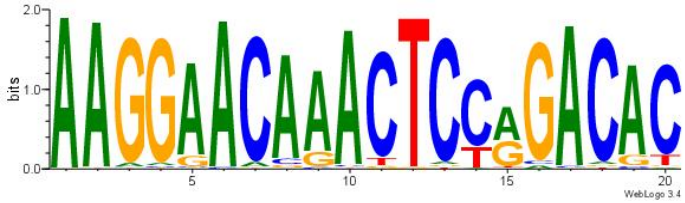

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

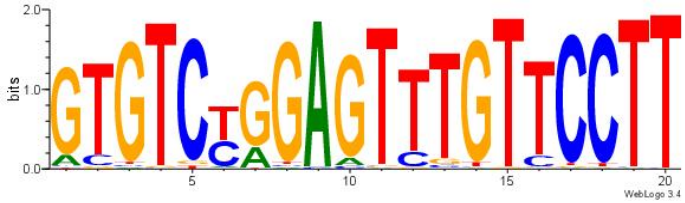

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.137025

Alignment:
CGCGGCGCTTGCGGGCCAGC
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

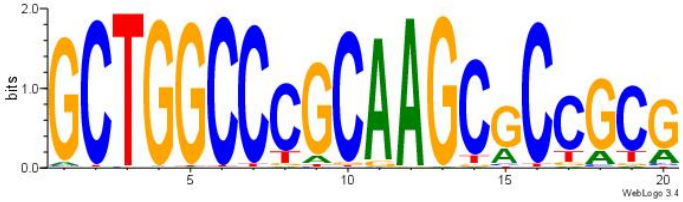

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

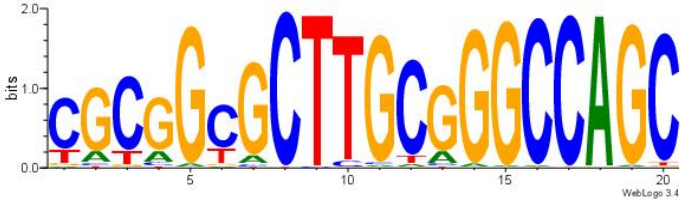

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.139343

Alignment:
CMTAGYACAGTGCCTGGCAC
-ACATCCCAGACGATGGGCG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

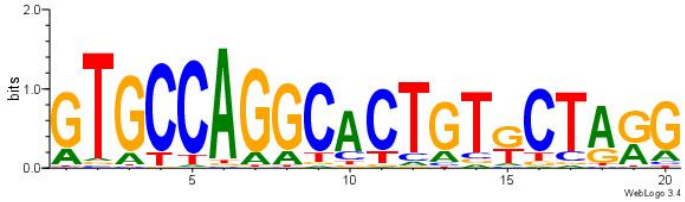

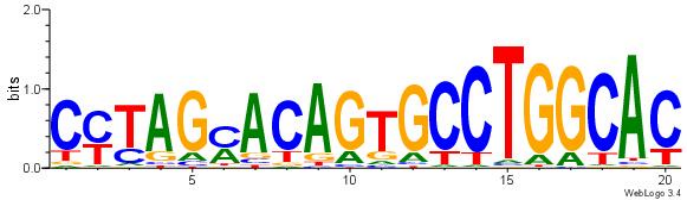

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.140012

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
ACATCCCAGACGATGGGCG-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

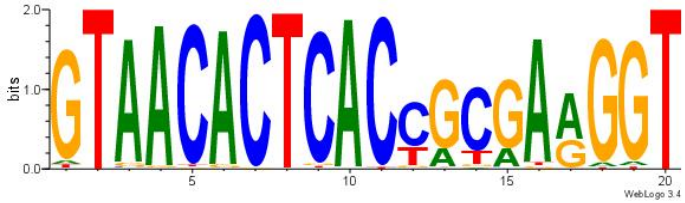

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

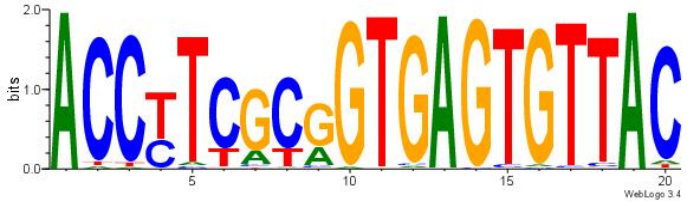

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140098

Alignment:

```
CGGCGCTGMGCTCGATTTCT
CGCCCATCGTCTGGGATGT-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

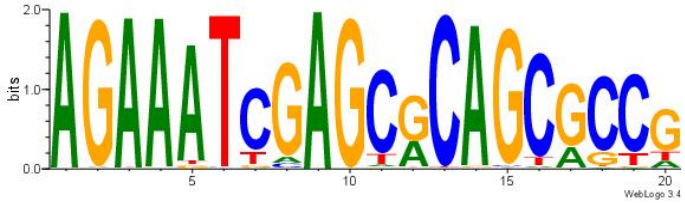

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

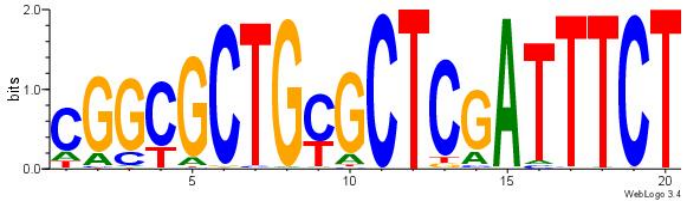

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.140406

Alignment:
ATAGGAATGCTTGTGATTTT
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

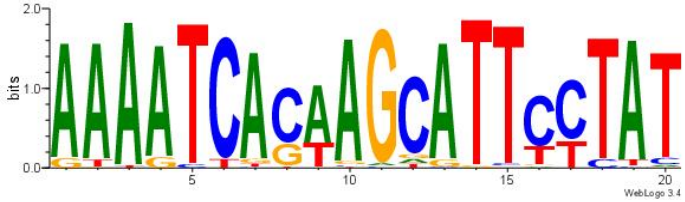

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

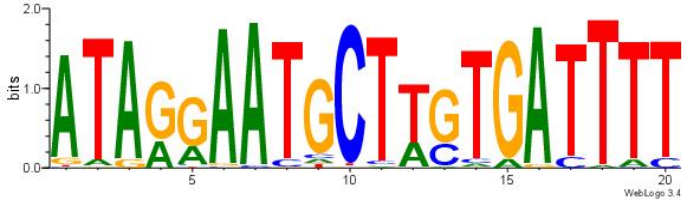

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.14106

Alignment:
GCACATGTAYCCYAGAACTT
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

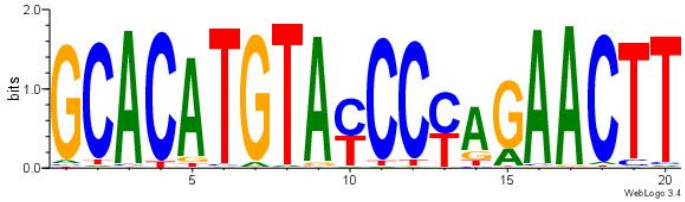

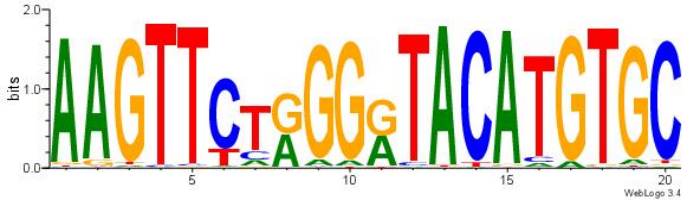

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.1411

Alignment:

```
ATTAGCYRGGCRTGGTGGC
ACATCCCAGACGATGGGCG
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

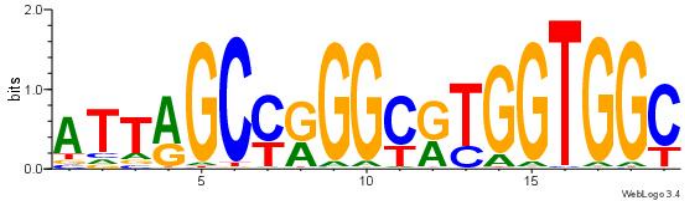

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

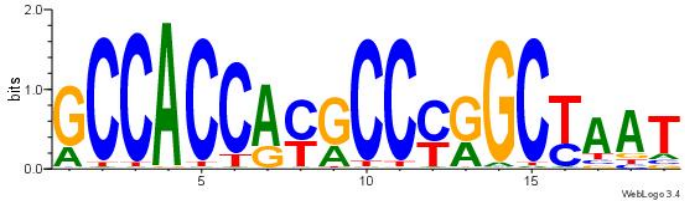

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.14161

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-ACATCCCAGACGATGGGCG
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

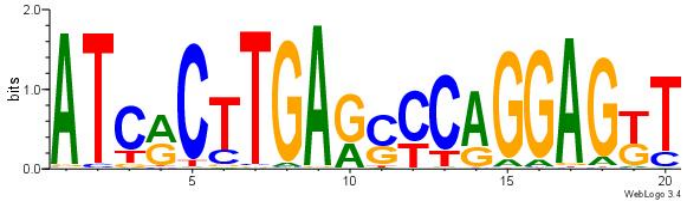

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

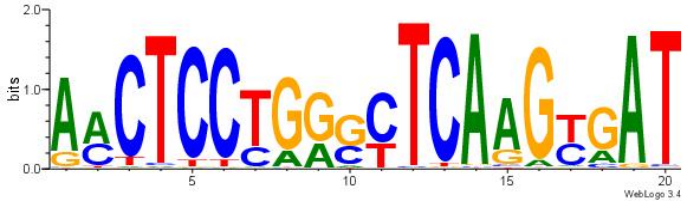

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.142814

Alignment:
TACCTGAGACTGGGTAATTT
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

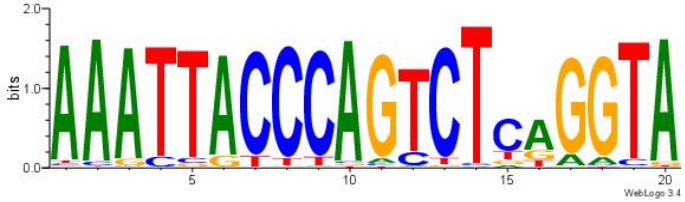

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

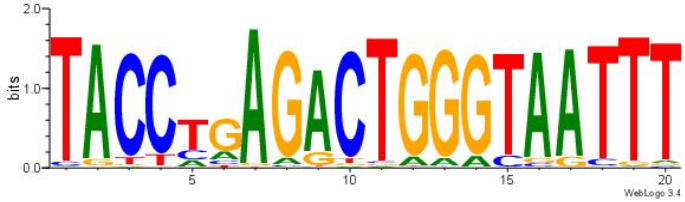

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.142852

Alignment:
GTTTAACCATTGAGGGCCAG
ACATCCCAGACGATGGGCG-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

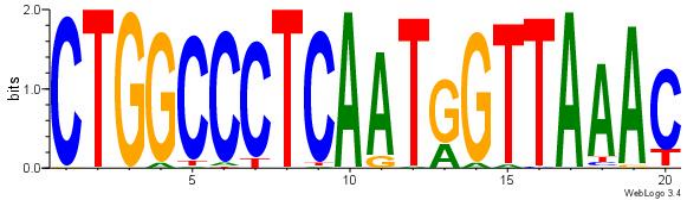

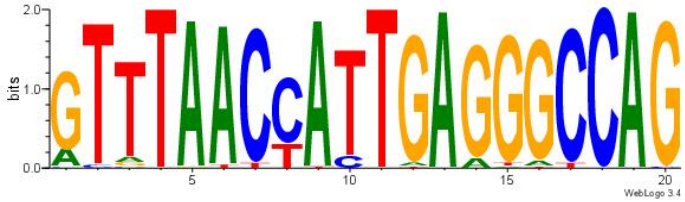

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.14294

Alignment:

```
ACTCCCTAGTGAGATGAACC
-ACATCCCAGACGATGGGCG
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

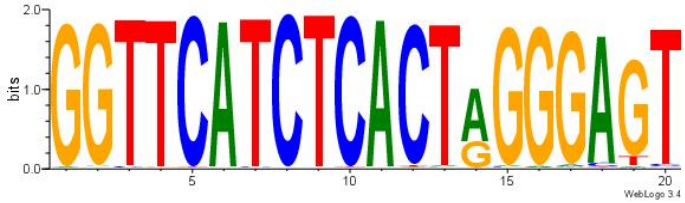

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

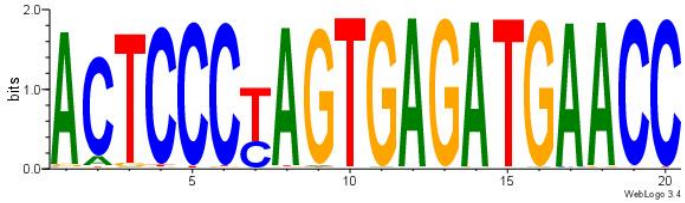

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143394

Alignment:

```
CAGCTACTCKTATACCCTTG
-CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

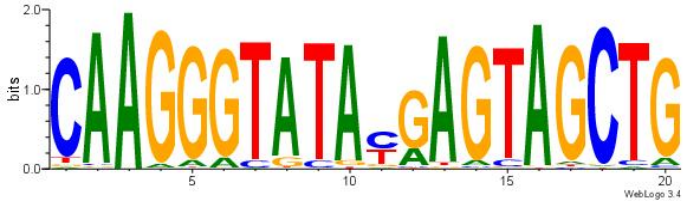

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

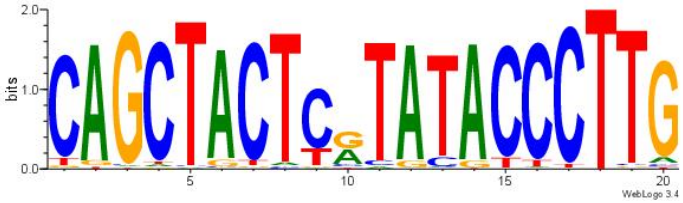

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.144296

Alignment:
ACTGTCTTCCACCTCCACAT
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

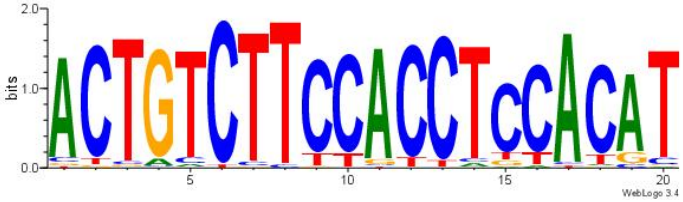

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

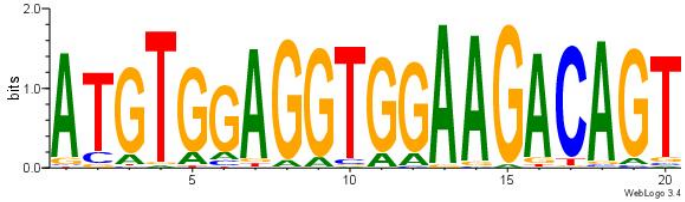

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.144513

Alignment:
AATGAKATCATGTCYTTTGC
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

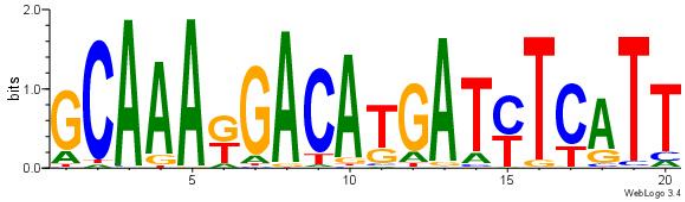

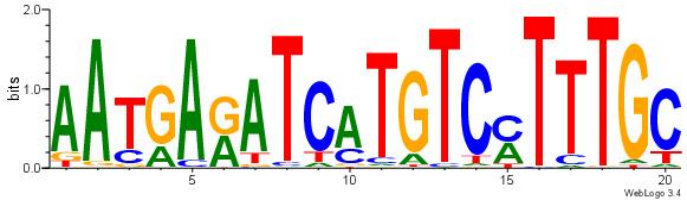

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144672

Alignment:
TGHCCTGCKCCCACTGTCT
CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

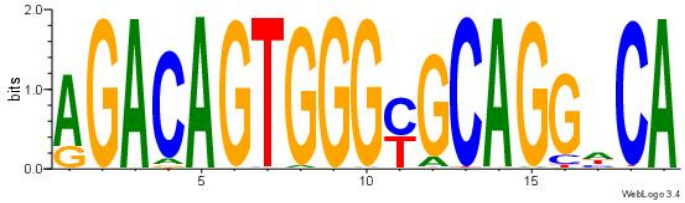

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

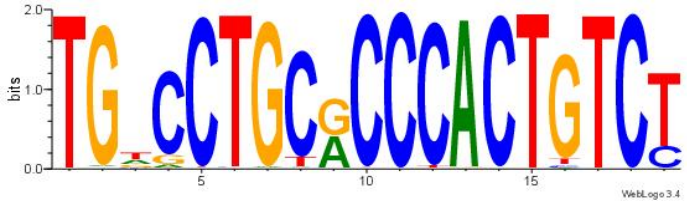

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145578

Alignment:

```
AGGAGRCMCTCTGCCTGGC
CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

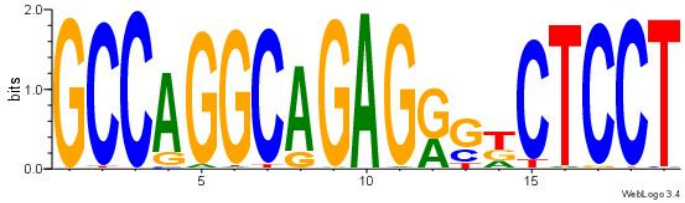

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

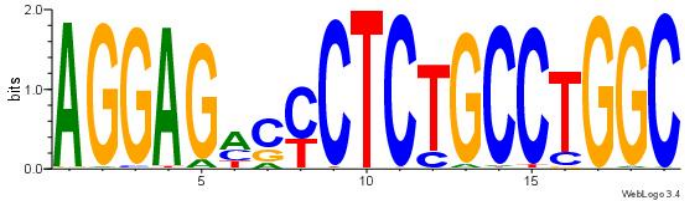

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.145864

Alignment:
CCCAAATCTCATSTTGAAT
CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

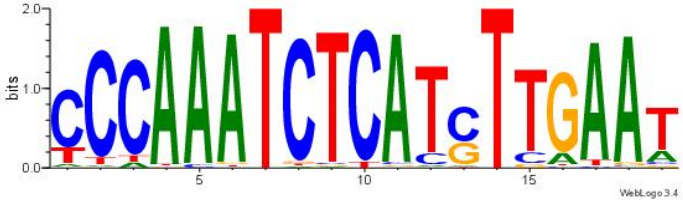

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

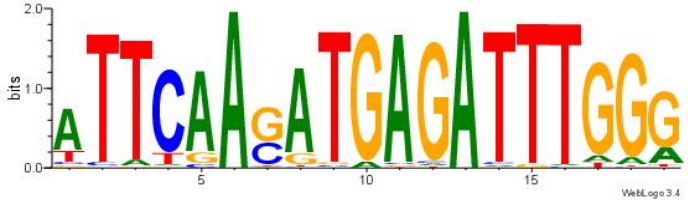

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.145875

Alignment:
TYTGTCMTTTTGTGACTGGC
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

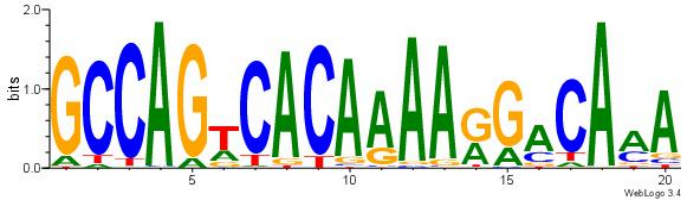

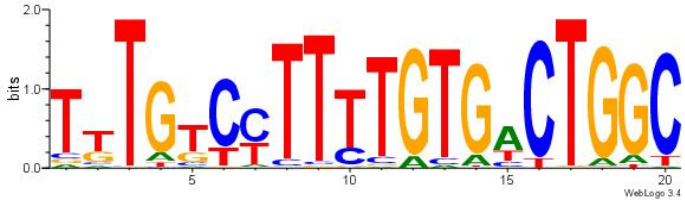

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.146063

Alignment:

```
ACACATCACAAAGCAGTTTC
ACATCCCAGACGATGGGCG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

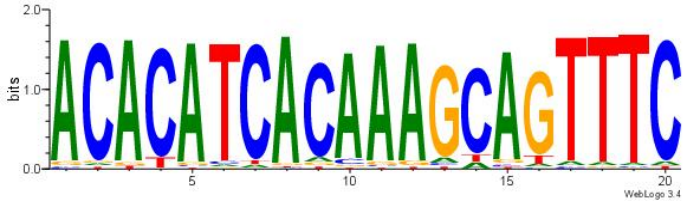

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

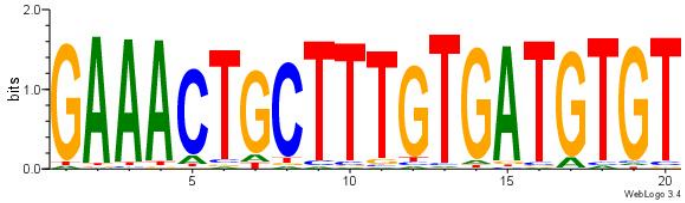

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146369

Alignment:

```
CCCYAATACTGCGCTTTTC
CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

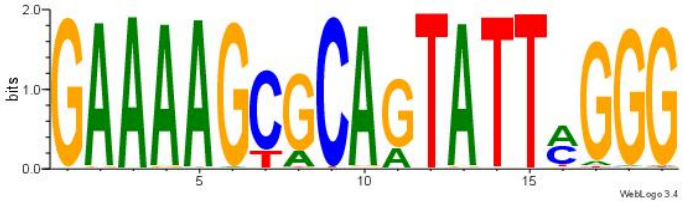

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

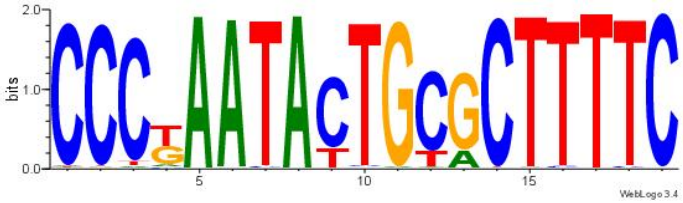

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.146396

Alignment:
AAGCTGAGGGAGCCGGCTCC
-CGCCCATCGTCTGGGATGT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

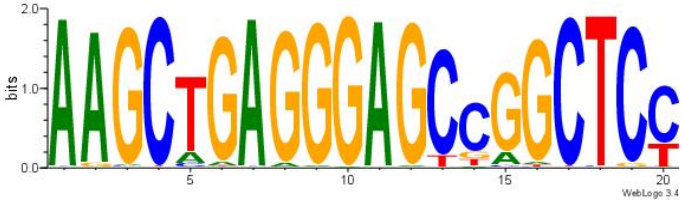

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

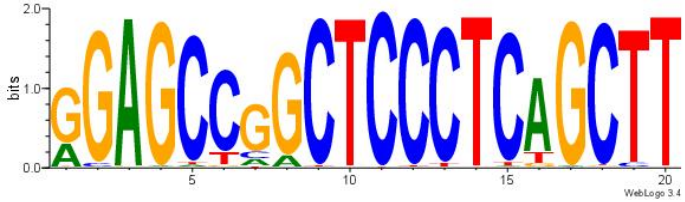

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.146757

Alignment:
CTGGGCTCCTGAGTCTGGTG
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

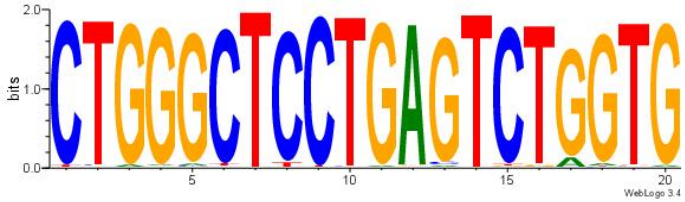

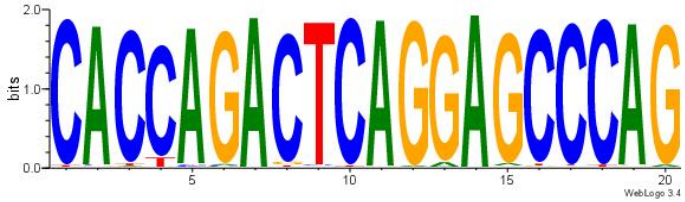

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.146872

Alignment:

```
ATAAAAACTTGCTGGTTTT
CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

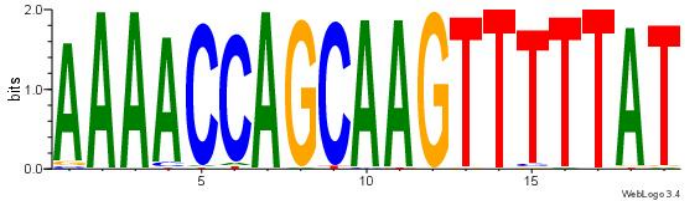

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

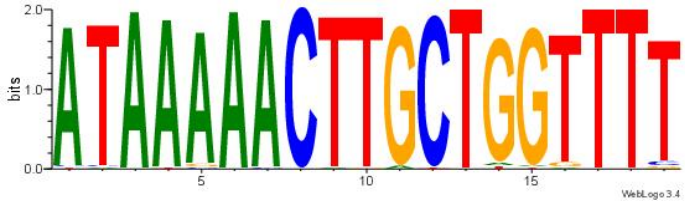

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.147046

Alignment:

```
AGTGAGAACATRYRRTRTTT
-CGCCCATCGTCTGGGATGT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

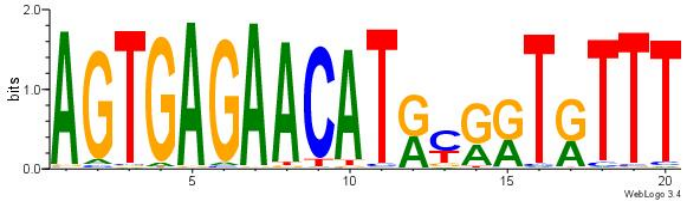

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

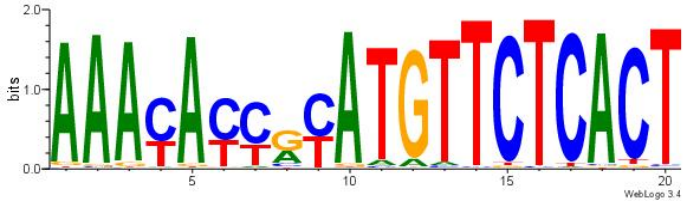

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.147166

Alignment:
GGATCCACTGGGTGAAGCCA
ACATCCCAGACGATGGGCG-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

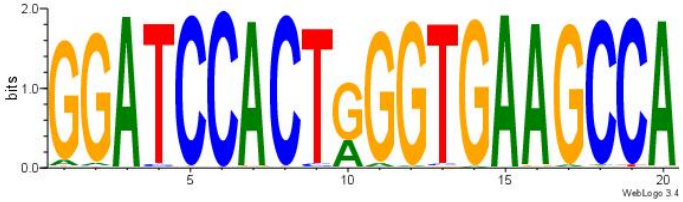

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

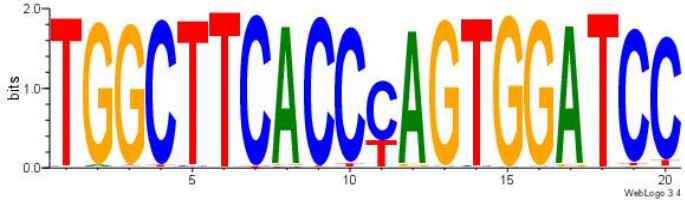

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.147376

Alignment:
ACCTGGAAAATCGGGTCACT
CGCCCATCGTCTGGGATGT-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

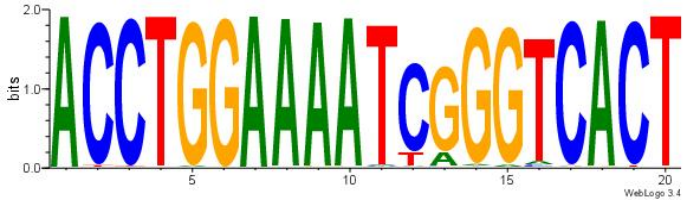

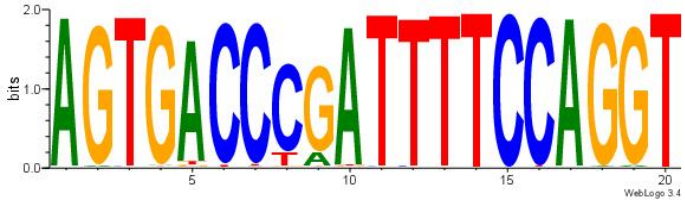

Dataset #: 1 Motif ID: 37 Motif name: Motif 37

Original motif Consensus sequence: CCTTGAGAGCW

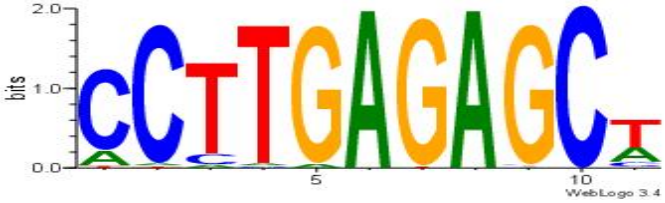

Reverse complement motif Consensus sequence: WGCTCTCAAGG

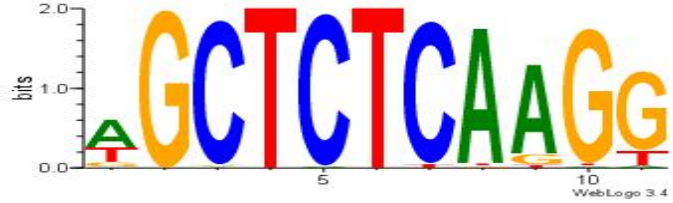

Best Matches for Motif ID 37 (Highest to Lowest)

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0617144

Alignment:

```
GTTTAACCATTGAGGGCCAG
-------CCTTGAGAGCW--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

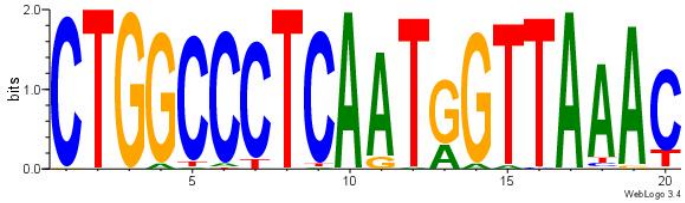

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

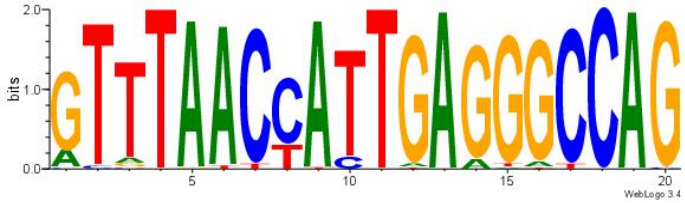

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0637615

Alignment:

```
AGTTCTTAAAGATGGT
WGCTCTCAAGG-----
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

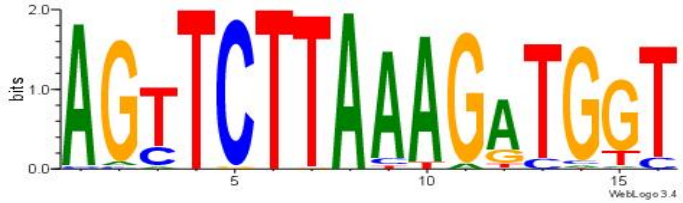

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

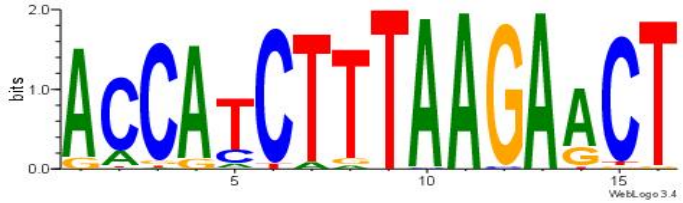

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0663901

Alignment:

```
CGTCGCTCACGCTGGGAGCT
---------CCTTGAGAGCW
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

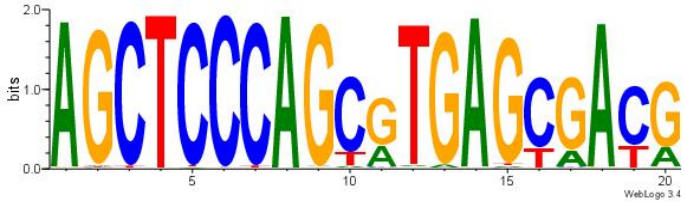

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

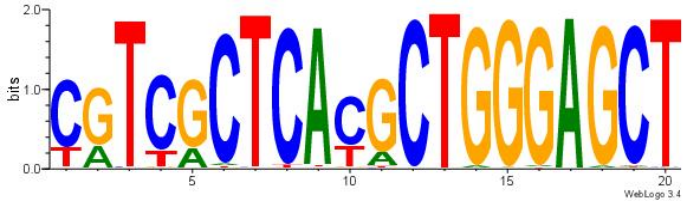

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 11
Similarity score: 0.0666861

Alignment:
AGCCTCCAGAACTGT
--CCTTGAGAGCW--

Original motif Consensus sequence: AGCCTCCAGAACTGT

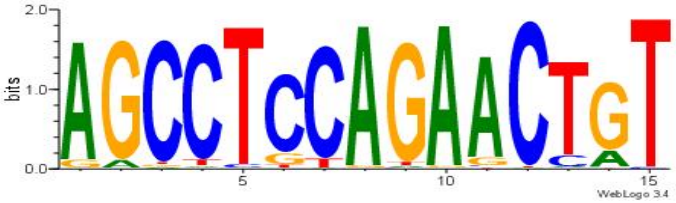

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0705972

Alignment:
GCCTCCTTGAGCTGTGGTGG
----CCTTGAGAGCW-----

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

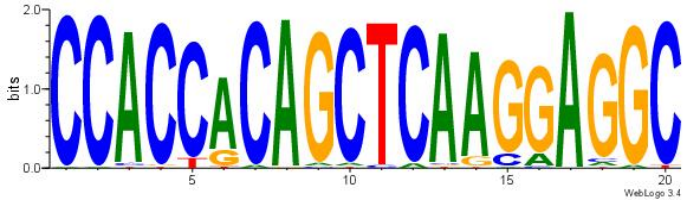

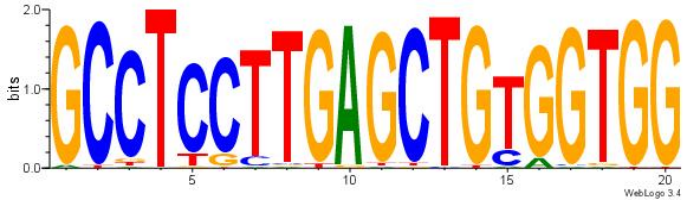

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0750539

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
------WGCTCTCAAGG---
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

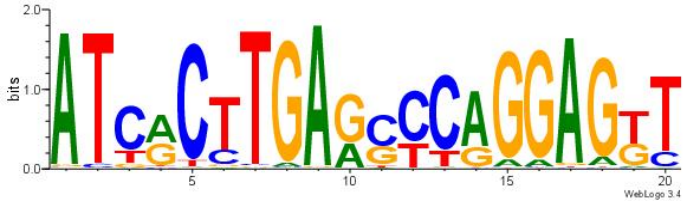

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

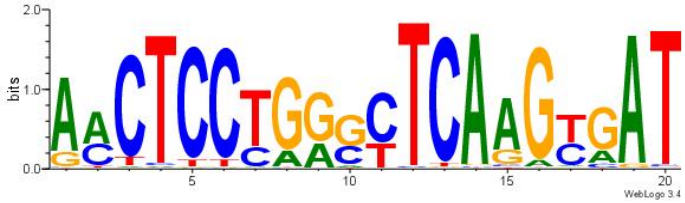

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0750776

Alignment:

```
GGTTCATCTCACTAGGGAGT
----WGCTCTCAAGG-----
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

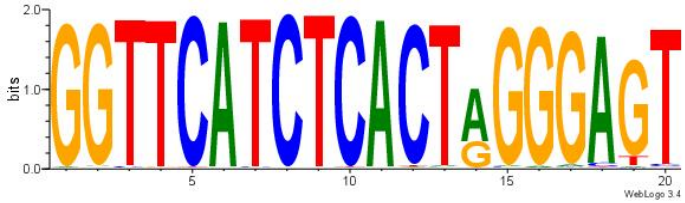

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

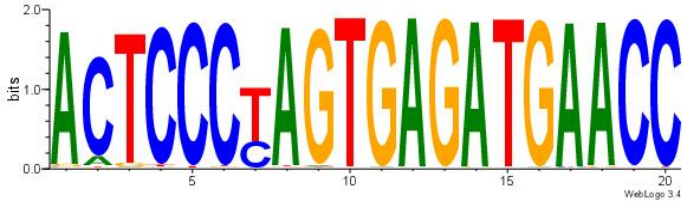

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0751975

Alignment:
CACTGCACTCCAGC
---WGCTCTCAAGG

Original motif Consensus sequence: CACTGCACTCCAGC

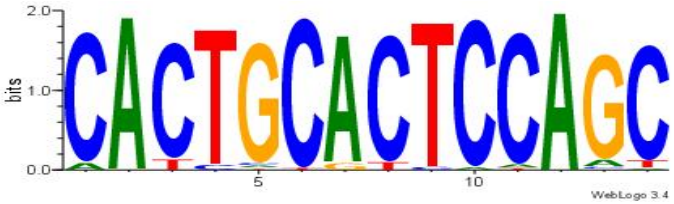

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

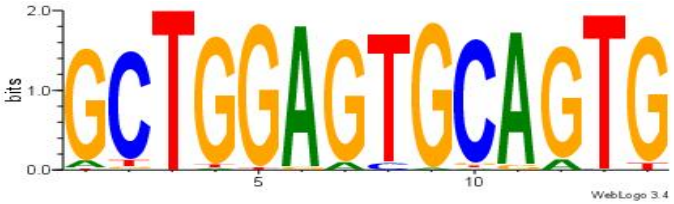

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.0759098

Alignment:
TCKMGCCACTGCACTCCAGC
---------WGCTCTCAAGG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

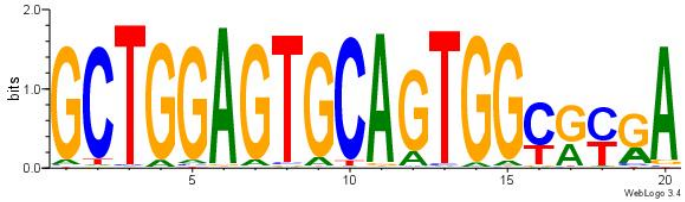

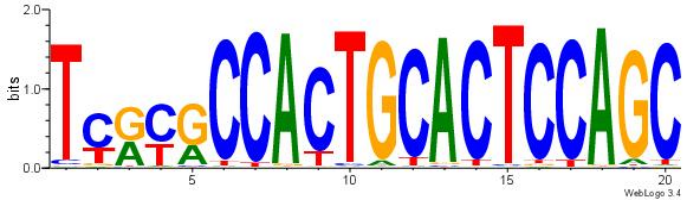

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0793083

Alignment:

```
ATTGATMKCCAGGGTTGATT
--WGCTCTCAAGG-------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

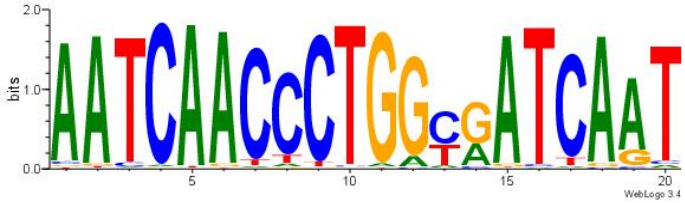

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

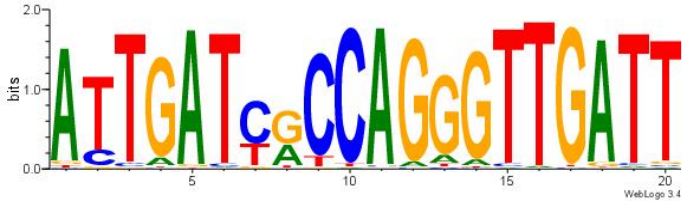

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0800106

Alignment:

```
CATTTGGGAGCCCATTGA
-CCTTGAGAGCW------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

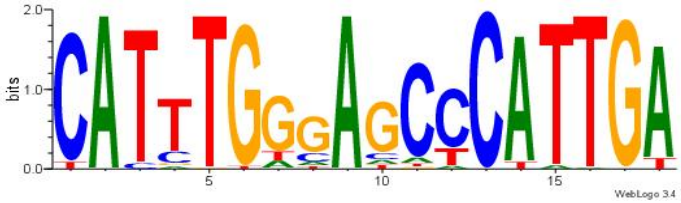

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

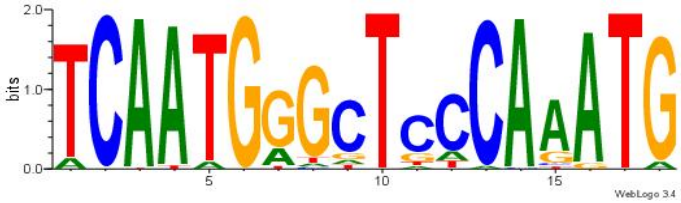

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0813846

Alignment:
CCGCTGCACTGTGGGAGCCC
--------CCTTGAGAGCW-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

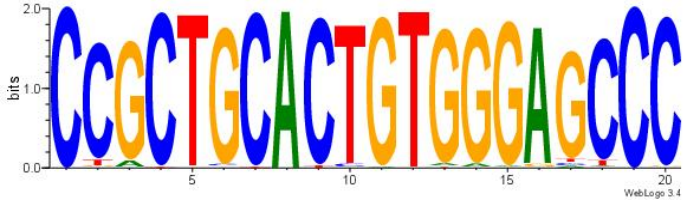

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

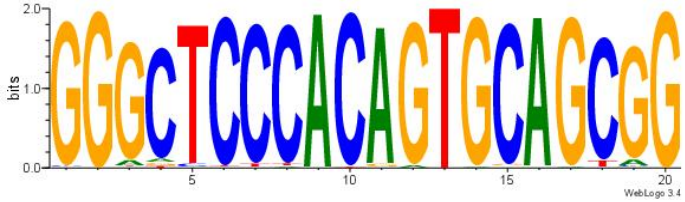

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 11
Similarity score: 0.0819104

Alignment:
CGCGGCGCTTGCGGGCCAGC
------CCTTGAGAGCW---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

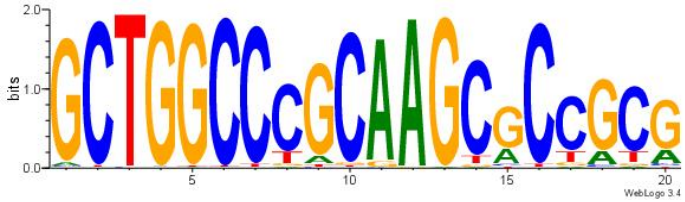

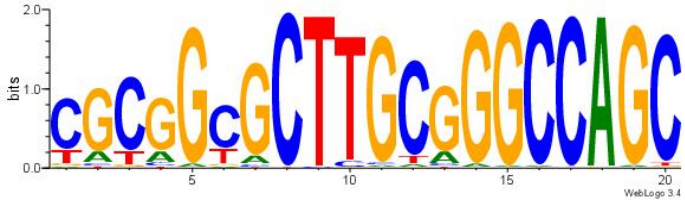

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0825014

Alignment:

```
MTCCTCCAGACCCCAGAATG
--CCTTGAGAGCW-------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

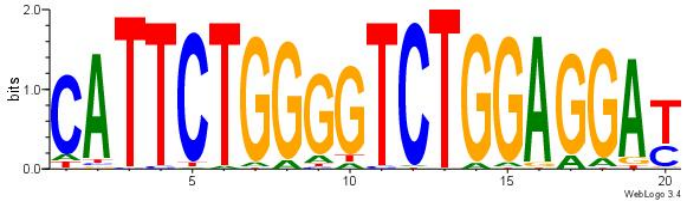

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

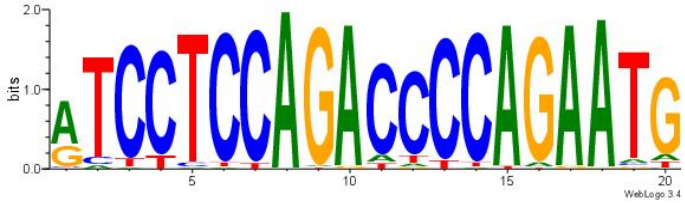

Dataset #:	1

Motif ID:	40
Motif name:	Motif 40
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0830386

Alignment:

```
ACTTTGGGAGGC
-CCTTGAGAGCW
```

Original motif Consensus sequence: ACTTTGGGAGGC

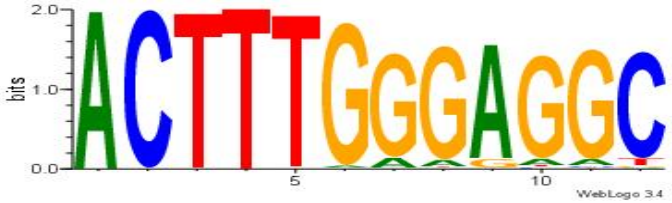

Reverse complement motif Consensus sequence: GCCTCCCAAAGT

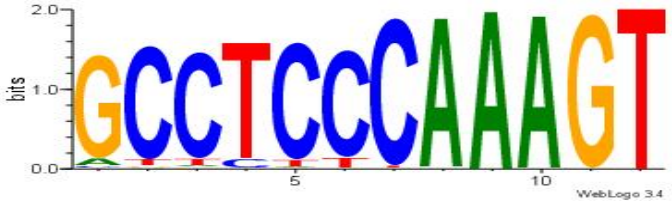

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0841528

Alignment:
CMCAGTTCACAATAGGGTT
---WGCTCTCAAGG-----

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

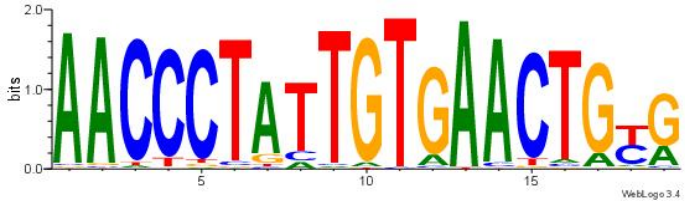

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

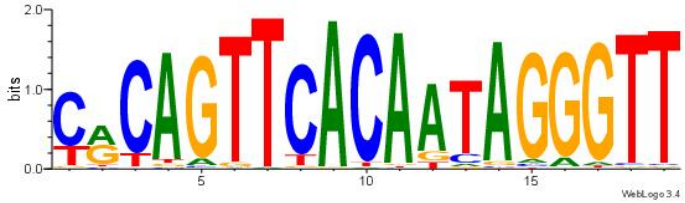

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0848766

Alignment:
GTAACACTCACCGCGARGGT
--WGCTCTCAAGG-------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

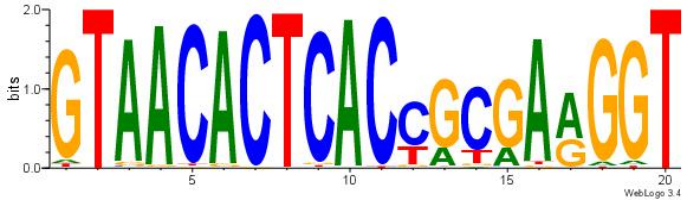

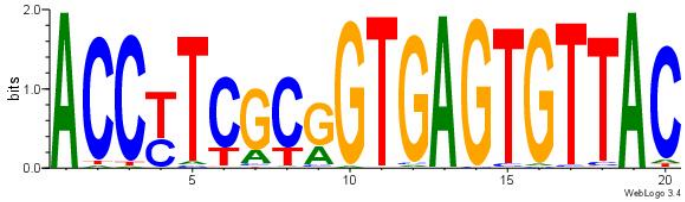

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0855521

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----WGCTCTCAAGG---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

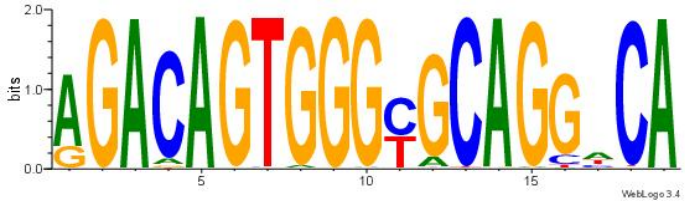

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

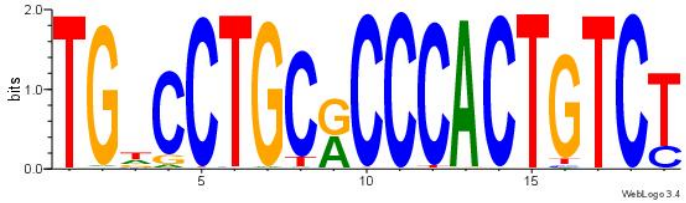

Dataset #:	1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0861886

Alignment:

```
CAAGGTCTGATTGTW
--WGCTCTCAAGG--
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

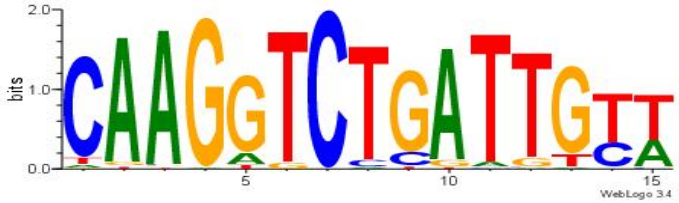

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0863702

Alignment:
TAAGTGGGAGCTAARC
-CCTTGAGAGCW----

Original motif Consensus sequence: TAAGTGGGAGCTAARC

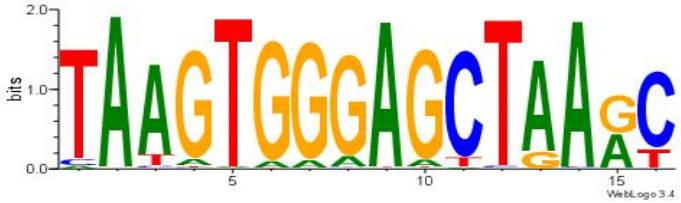

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

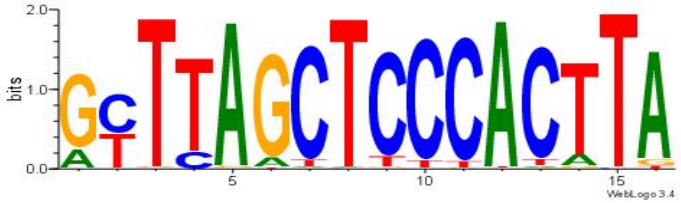

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0867353

Alignment:
AAAGTGCCGAGAKTGCAGC
------CCTTGAGAGCW--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

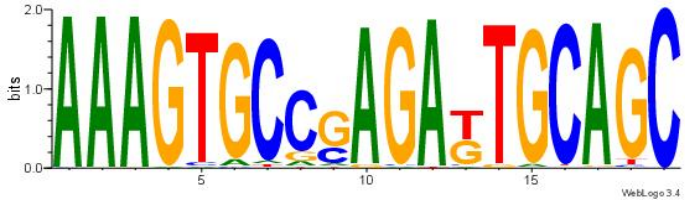

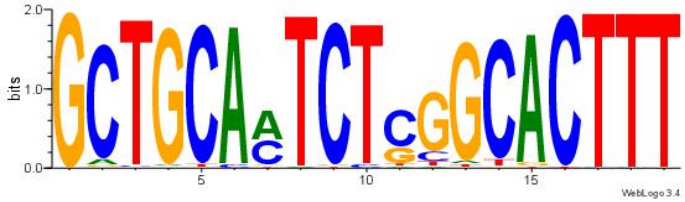

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0871463

Alignment:

```
AGCAGCTGTAAATA
---WGCTCTCAAGG
```

Original motif Consensus sequence: AGCAGCTGTAAATA

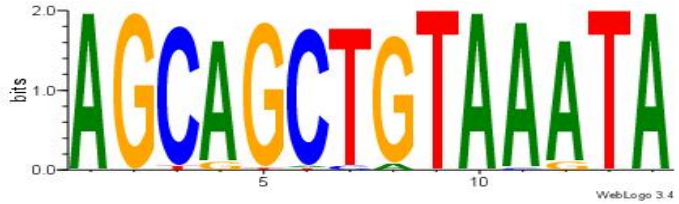

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

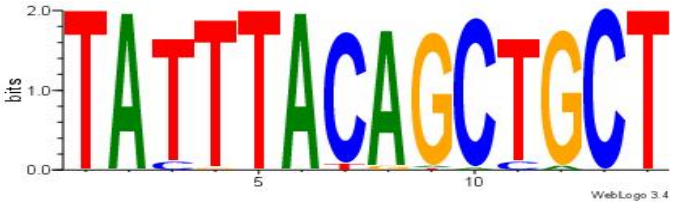

Dataset #:	1
Motif ID:	159

Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0894584

Alignment:

```
TGCTCACACAAAGCCTGT
WGCTCTCAAGG-------
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

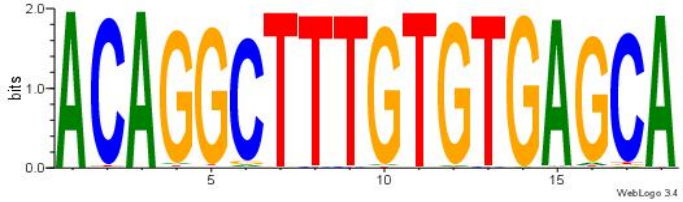

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

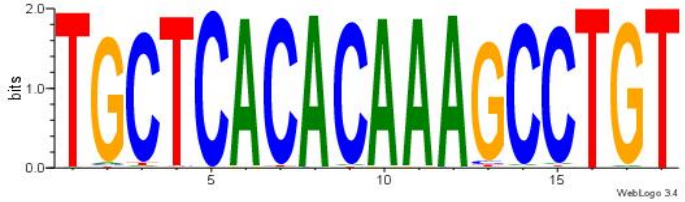

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0898454

Alignment:
GCTCCACCCAGTTCGAGCTT
--------CCTTGAGAGCW-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

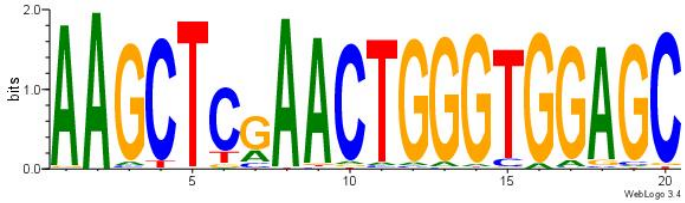

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

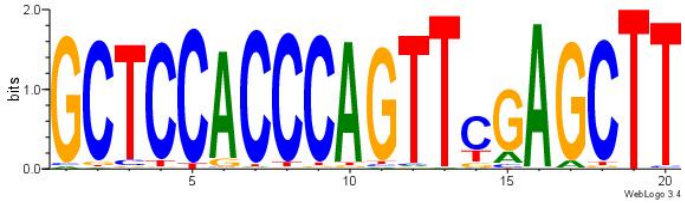

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0901025

Alignment:
GCCRGCCCTGCYGGCC
---WGCTCTCAAGG--

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

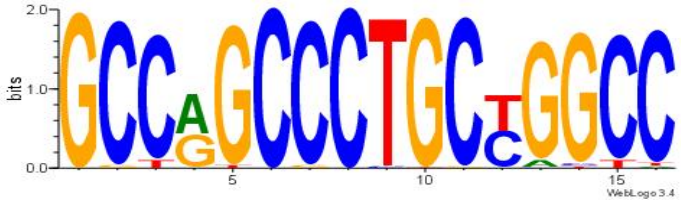

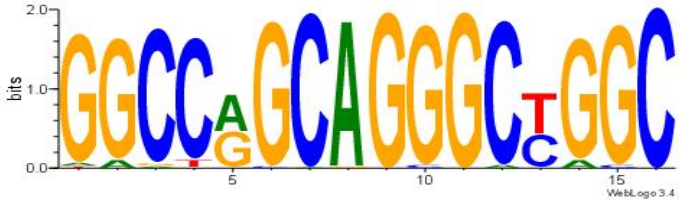

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0905578

Alignment:

```
CMGCTCCGAGTGCGG
-WGCTCTCAAGG---
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

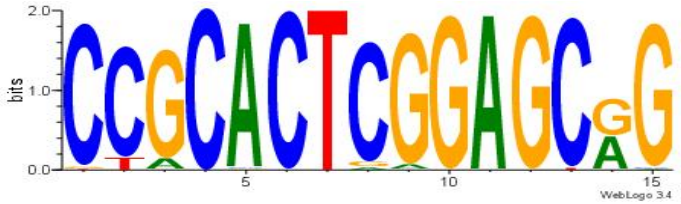

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

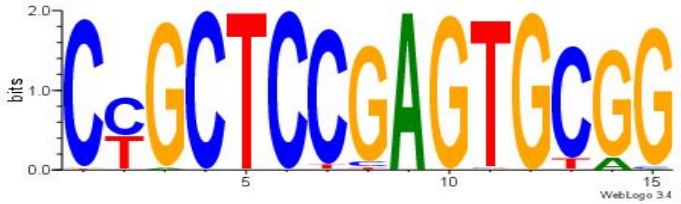

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0906781

Alignment:

```
KGCAACCTAGATCCCT
-----CCTTGAGAGCW
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

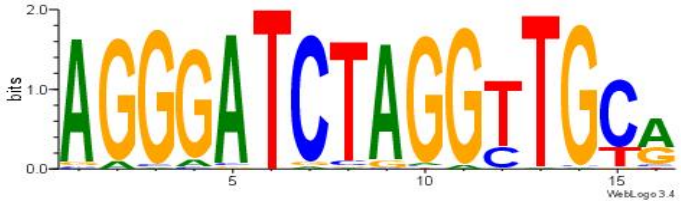

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

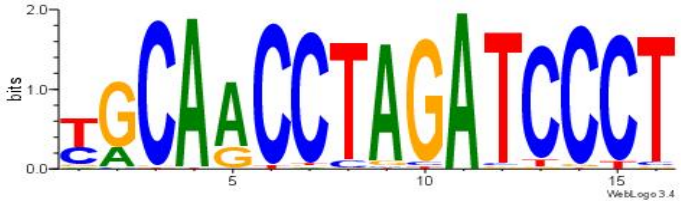

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.090987

Alignment:
CATGGAGCGGKK
CCTTGAGAGCW-

Original motif Consensus sequence: CATGGAGCGGKK

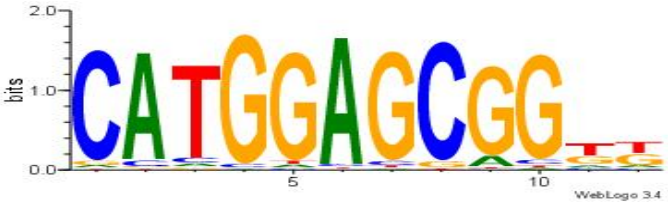

Reverse complement motif Consensus sequence: RRCCGCTCCATG

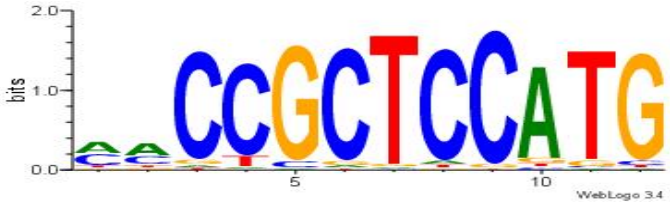

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0912561

Alignment:
MGGGATATAATCTCCTGGTG
-------WGCTCTCAAGG--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

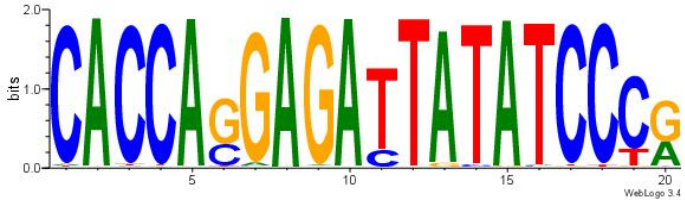

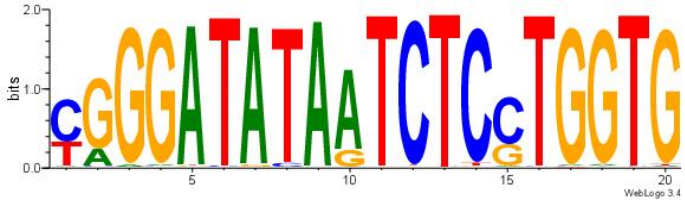

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0913548

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-WGCTCTCAAGG--------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

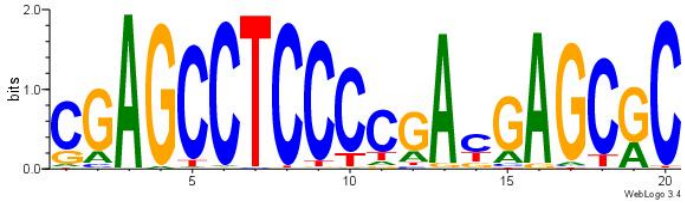

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

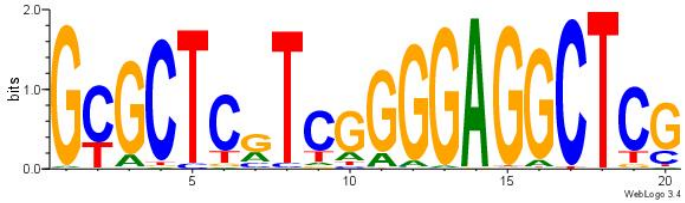

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0924199

Alignment:

```
ACATCMTCTGAAATCTAGG
-----CCTTGAGAGCW---
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

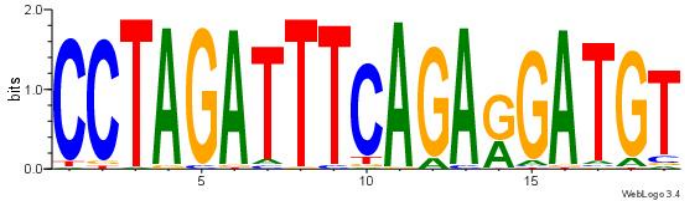

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

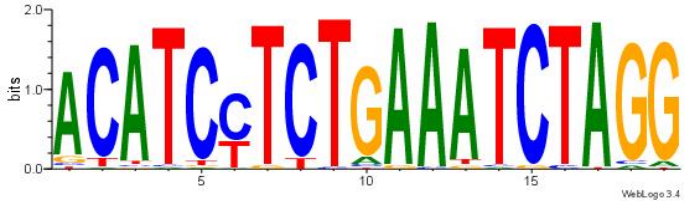

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0924489

Alignment:
CCCMKGGCACCCTCAGTCCT
---------CCTTGAGAGCW

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

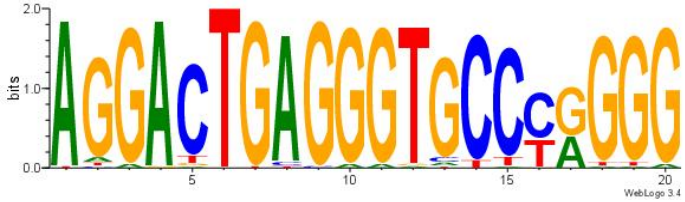

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

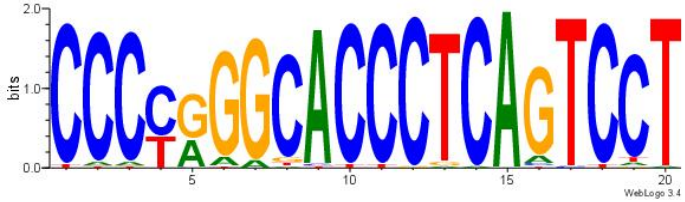

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0927063

Alignment:
GACCTGCAGCCCGCCATG
-------WGCTCTCAAGG

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

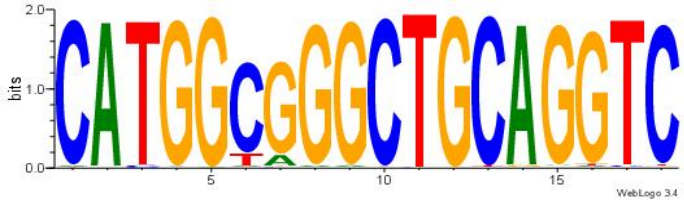

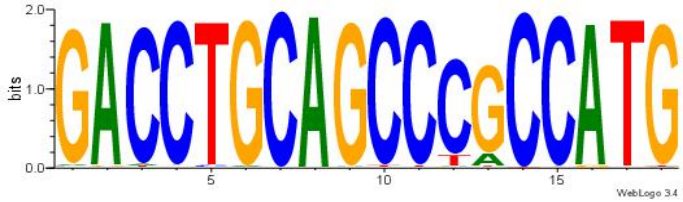

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0928728

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-------WGCTCTCAAGG--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

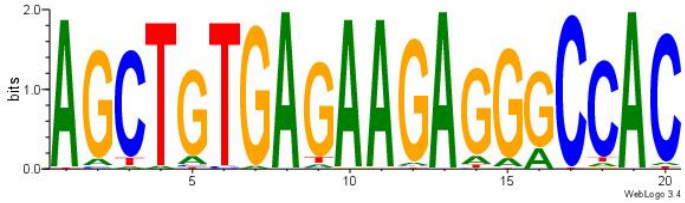

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

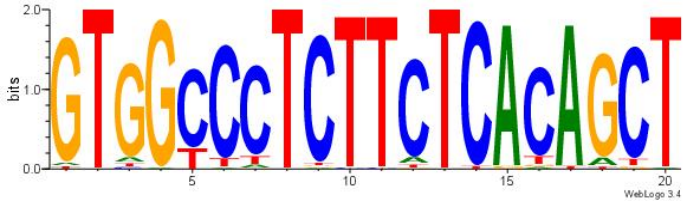

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0929916

Alignment:

```
CTAGACATAAAGGTTCTCCA
--WGCTCTCAAGG-------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

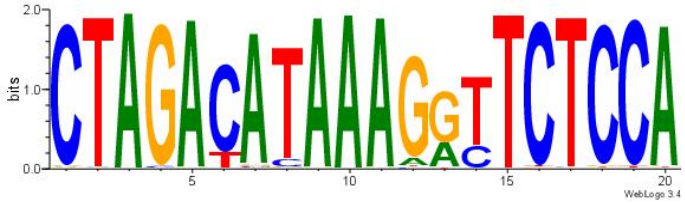

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

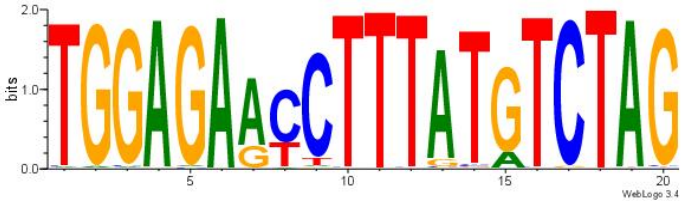

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0931525

Alignment:
CCATCTAGGAAGTG
--WGCTCTCAAGG-

Original motif Consensus sequence: CACTTCCTAGATGG

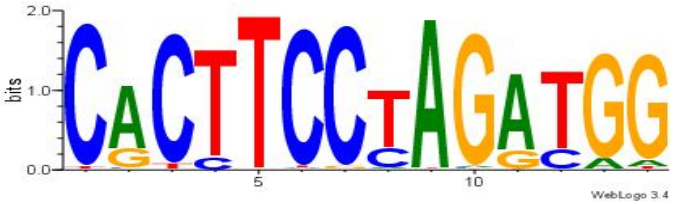

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

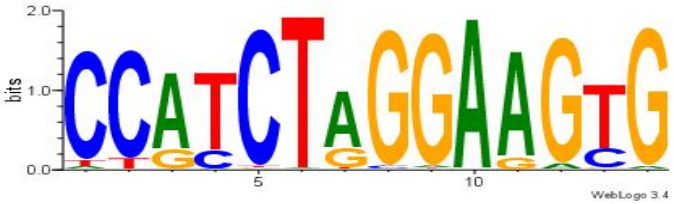

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0934497

Alignment:
ACCGAGMKMGCAGCTTCGGG
-CCTTGAGAGCW--------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

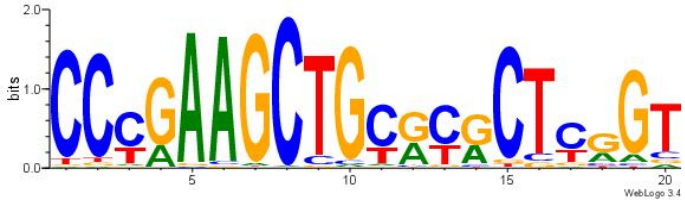

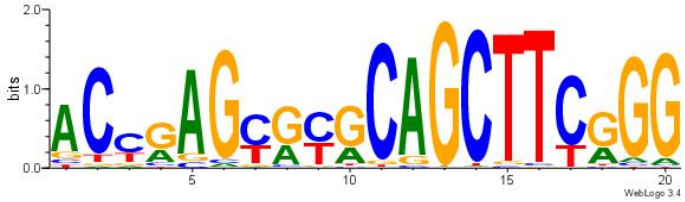

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0934964

Alignment:

```
TAMGACCTCAGGTCCTCAG
--WGCTCTCAAGG------
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

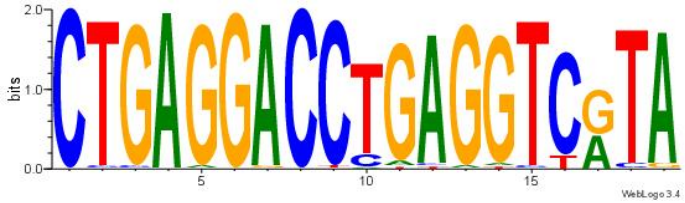

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

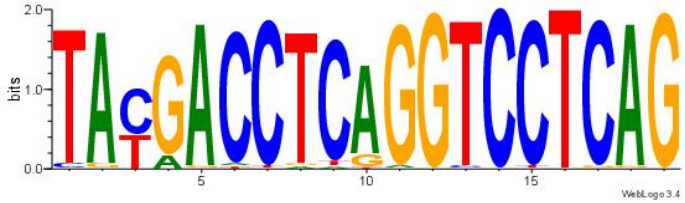

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0935031

Alignment:

```
GCCTCTCCCTCCACACCTCC
-------CCTTGAGAGCW--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

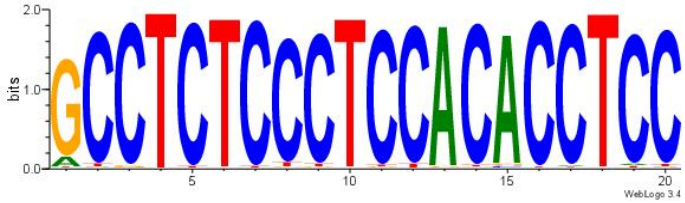

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

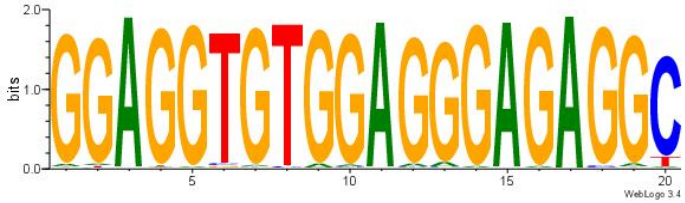

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0935288

Alignment:
AGAGCTCTGGCTGGCATCT
--WGCTCTCAAGG------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

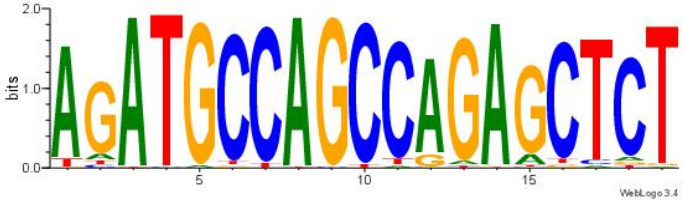

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

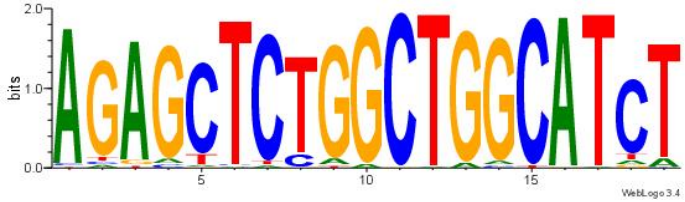

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0935398

Alignment:
TGCTGGAGGTCCACTCCAGA
---------WGCTCTCAAGG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

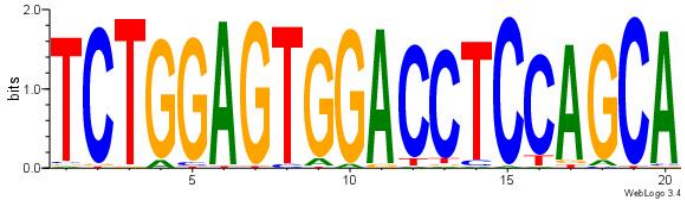

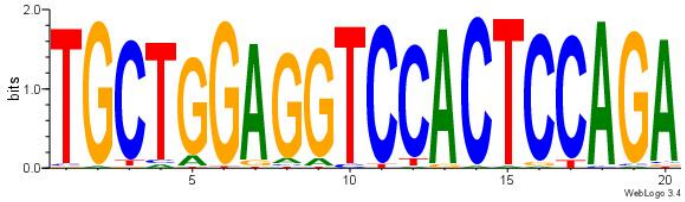

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0935589

Alignment:

```
ACACATCACAAAGCAGTTTC
--WGCTCTCAAGG-------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

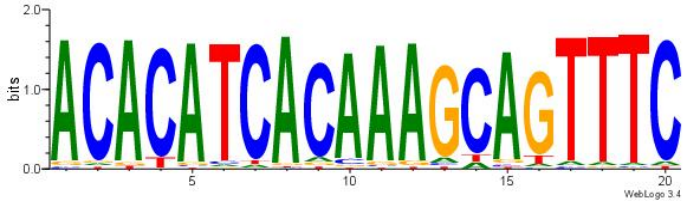

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

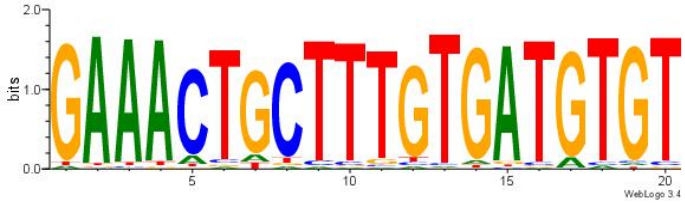

Dataset #:	1

Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0936693

Alignment:

```
GCTCACTGCAASCTC
---CCTTGAGAGCW-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

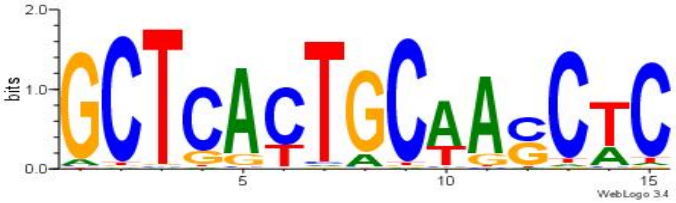

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

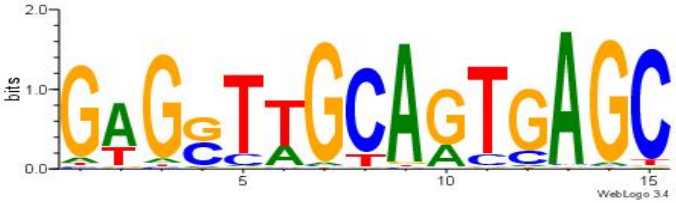

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0938553

Alignment:
TGTCCATGTGTTCTC
---CCTTGAGAGCW-

Original motif Consensus sequence: GAGAACACATGGACA

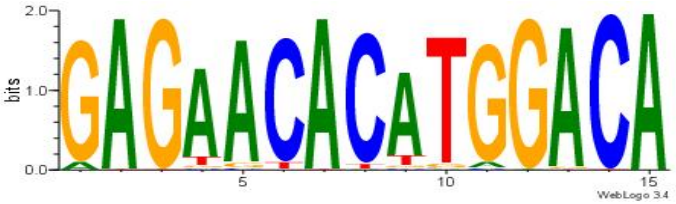

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

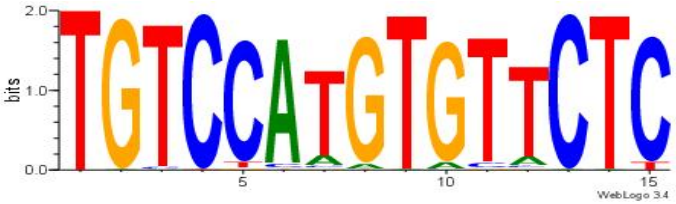

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0941672

Alignment:
TAGTGGTGATTTSTGAGAT
--------CCTTGAGAGCW

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

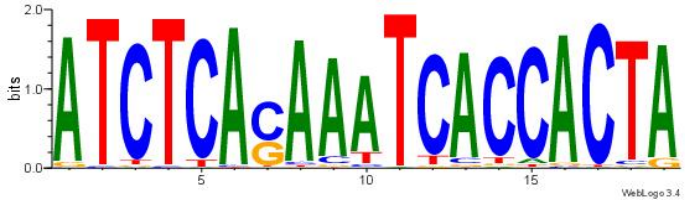

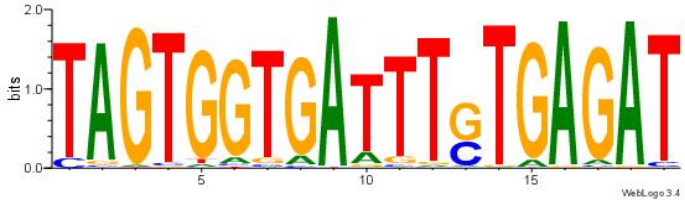

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0944086

Alignment:

```
AGTTGTAATTGGGAGACTT
------CCTTGAGAGCW--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

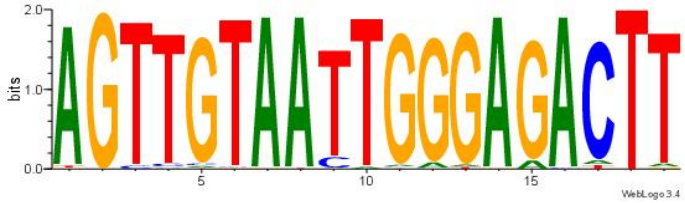

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

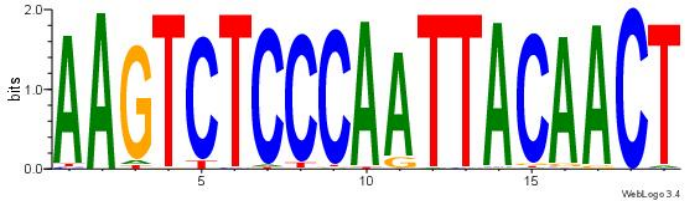

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0946597

Alignment:

```
ATTCAASATGAGATTTGGG
-----CCTTGAGAGCW---
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

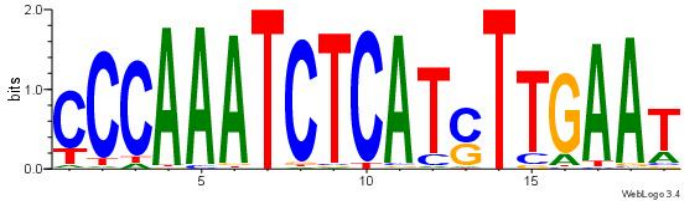

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

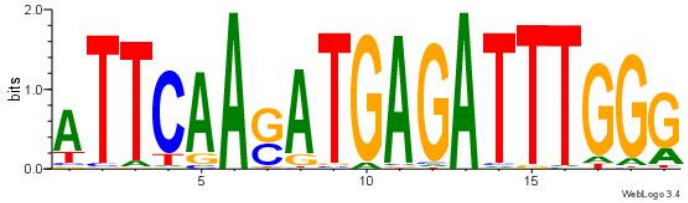

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0950149

Alignment:
GAGCTTTAAGATTT
---CCTTGAGAGCW

Original motif Consensus sequence: AAATCTTAAAGCTC

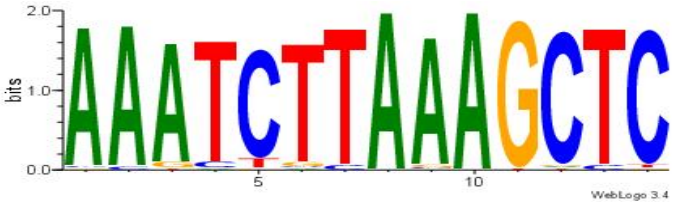

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

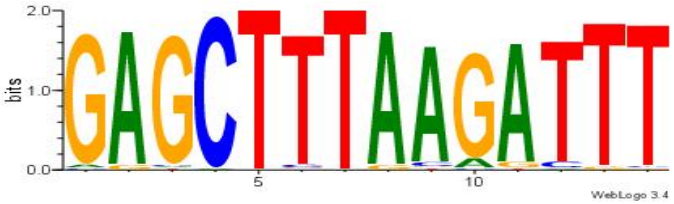

Dataset #: 1
Motif ID: 31
Motif name: Motif 31
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0957834

Alignment:
CGGCTCGCGCACGG
---WGCTCTCAAGG

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

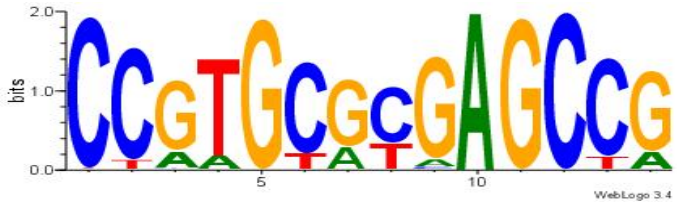

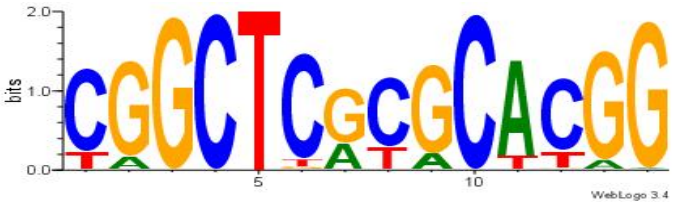

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0958392

Alignment:

```
CCTMACAATCATGG
---WGCTCTCAAGG
```

Original motif Consensus sequence: CCATGATTGTRAGG

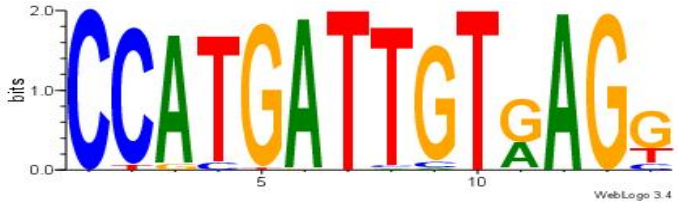

Reverse complement motif Consensus sequence: CCTMACAATCATG

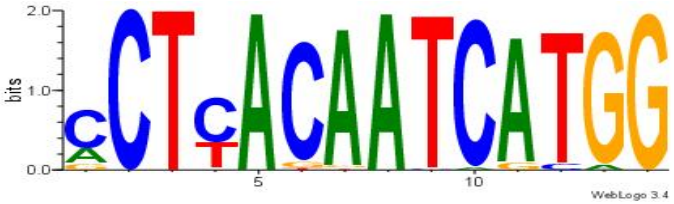

Dataset #: 1 Motif ID: 38 Motif name: Motif 38

Original motif Consensus sequence: GCAGTGAGCYRAGA

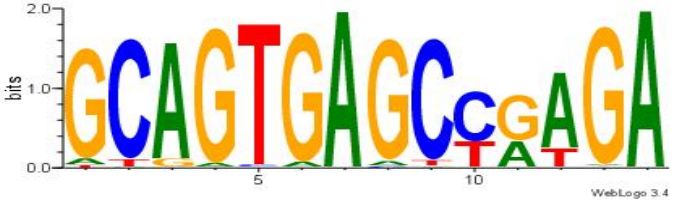

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

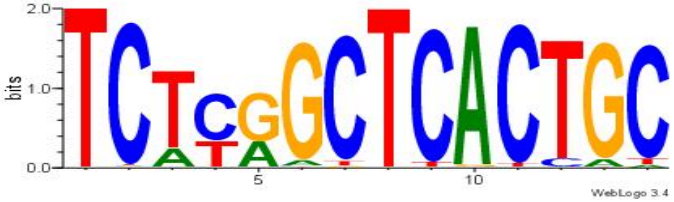

Best Matches for Motif ID 38 (Highest to Lowest)

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0688783

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-----TCTMKGCTCACTGC-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

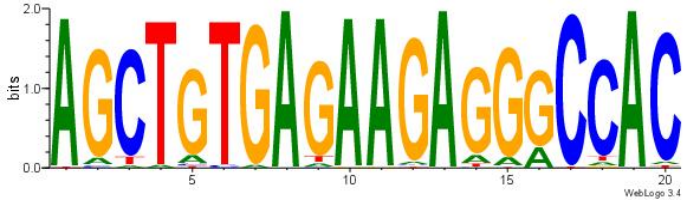

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

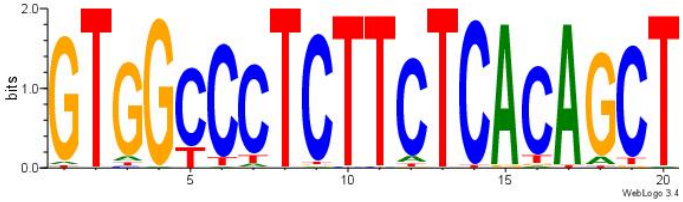

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0904176

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
GCAGTGAGCYRAGA------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

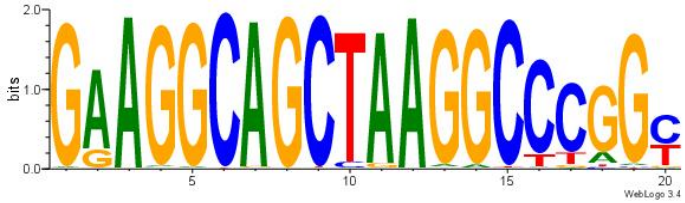

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

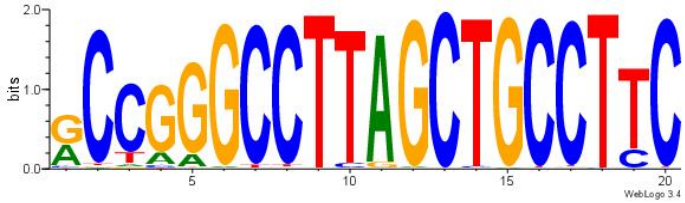

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0919739

Alignment:
AGACAGTGGGYGCAGGHCA
--GCAGTGAGCYRAGA---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

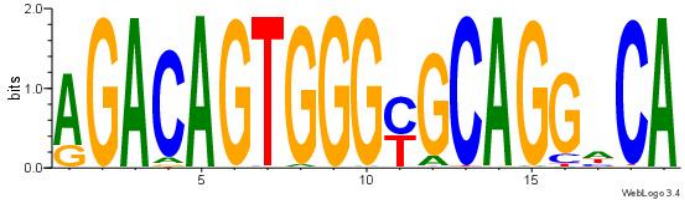

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

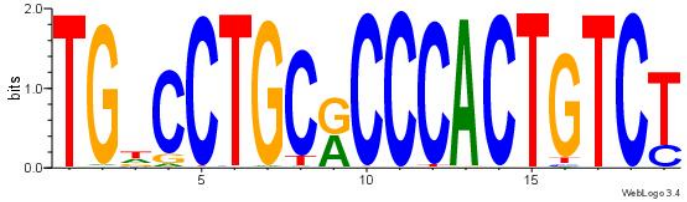

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0928109

Alignment:
TAGTGGTGATTTSTGAGAT
--GCAGTGAGCYRAGA---

Original motif Consensus sequence: ATCTCASAAATCACCACTA

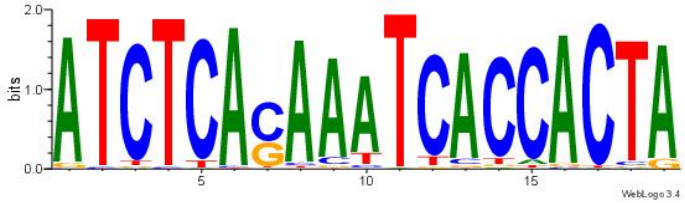

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

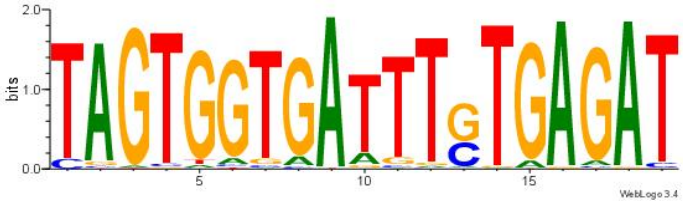

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0951907

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
---GCAGTGAGCYRAGA---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

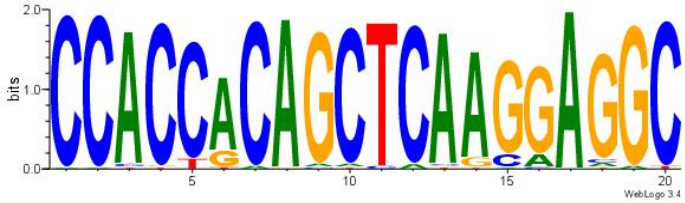

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

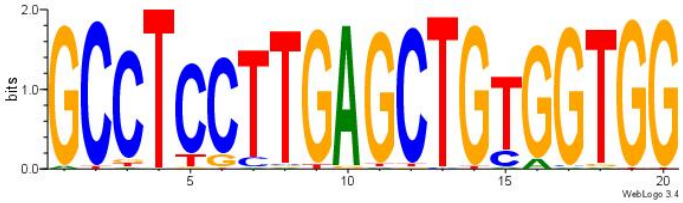

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0957241

Alignment:

```
GCACTGAGTGAACGA
GCAGTGAGCYRAGA-
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

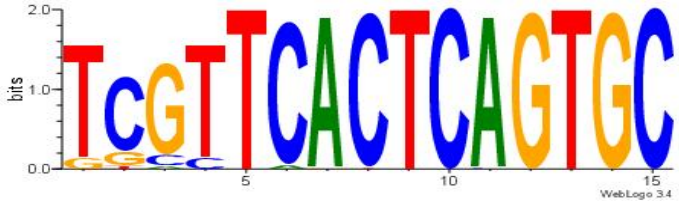

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.0966464

Alignment:
ARCTCCTGKSCTCAAGKGAT
----TCTMKGCTCACTGC--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

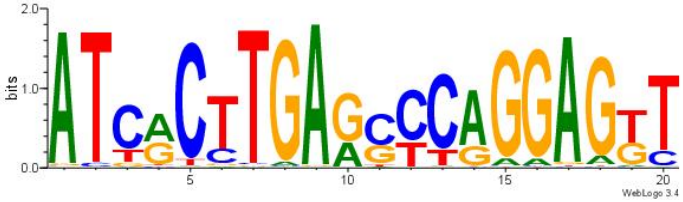

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

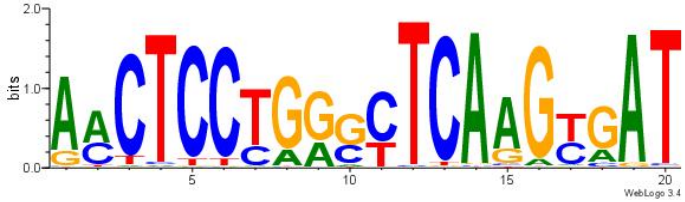

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0969712

Alignment:
GCCTCTCCCTCCACACCTCC
-----TCTMKGCTCACTGC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

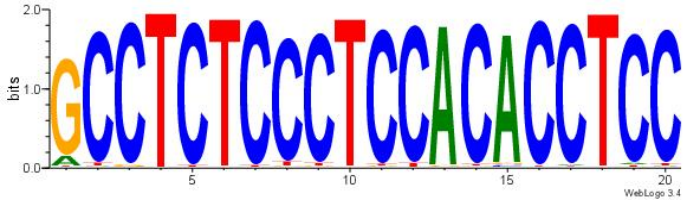

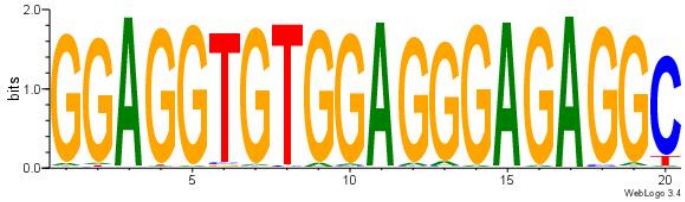

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0972585

Alignment:

```
TGCTGGAGGTCCACTCCAGA
---TCTMKGCTCACTGC---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

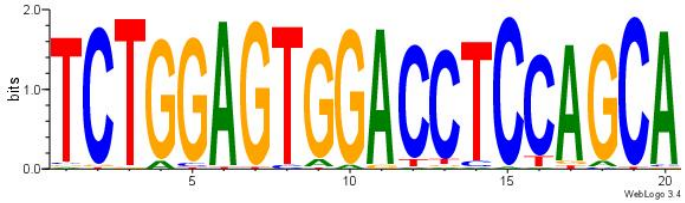

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

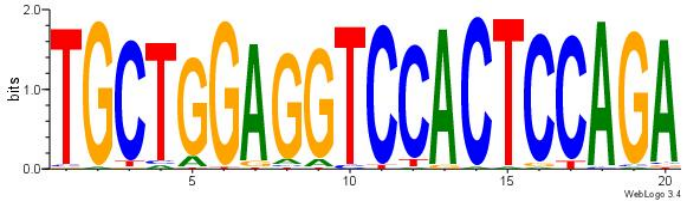

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0992256

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GCAGTGAGCYRAGA------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

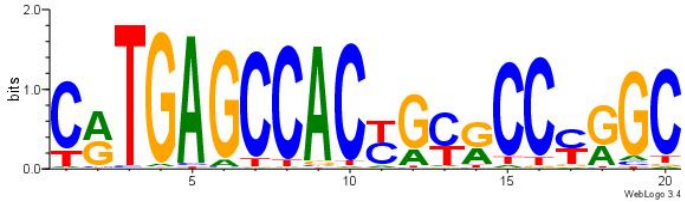

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

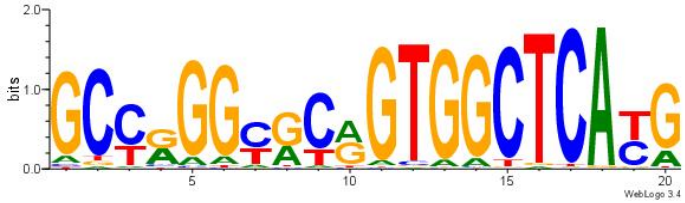

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.100159

Alignment:
KCAGTGTACACTGM
TCTMKGCTCACTGC

Original motif Consensus sequence: RCAGTGTACACTGY

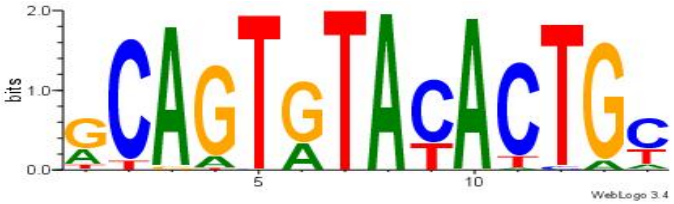

Reverse complement motif Consensus sequence: KCAGTGTACACTG

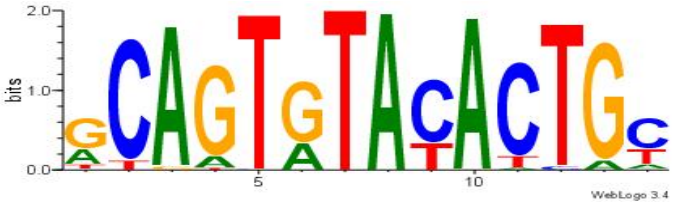

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.101537

Alignment:
GGTTCATCTCACTAGGGAGT
-----TCTMKGCTCACTGC-

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

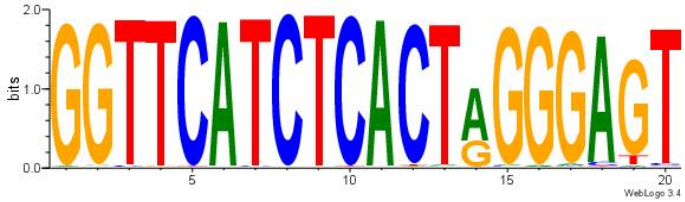

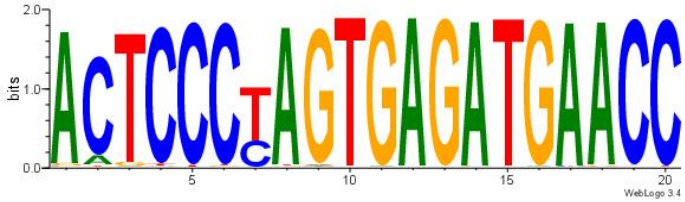

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.101927

Alignment:

```
CCTGTAATCCCAGC
TCTMKGCTCACTGC
```

Original motif Consensus sequence: GCTGGGATTACAGG

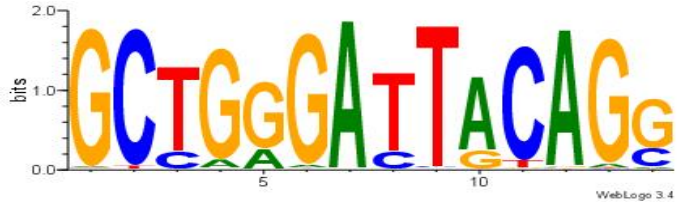

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	122

Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.102873

Alignment:

```
CCTTGGCCAGCCCAGAAAG
--GCAGTGAGCYRAGA---
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

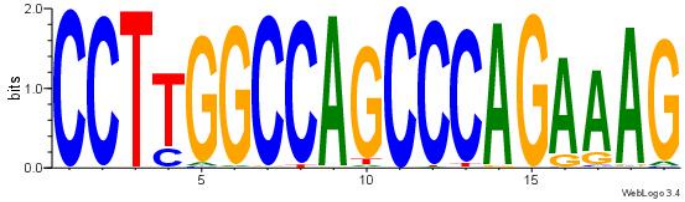

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

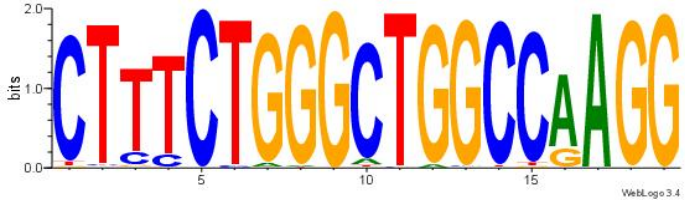

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.103682

Alignment:
GGAGCCGGCTCCCTCAGCTT
--TCTMKGCTCACTGC----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

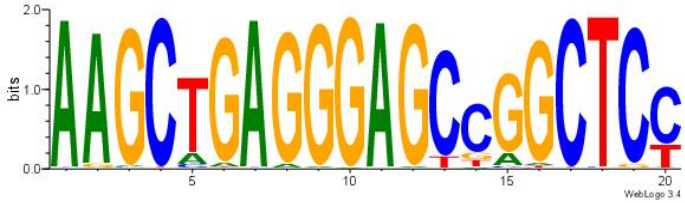

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

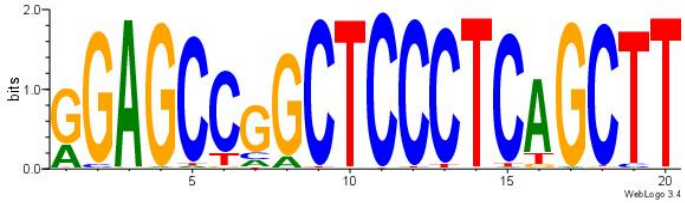

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.104289

Alignment:
CTGGGTCCCCCAGCAGTGCC
-----TCTMKGCTCACTGC-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

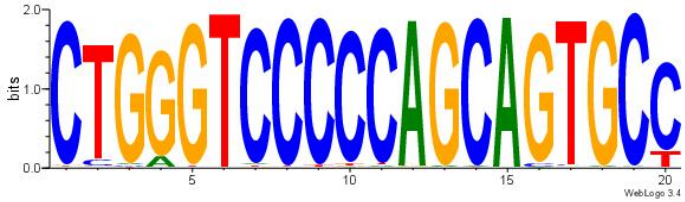

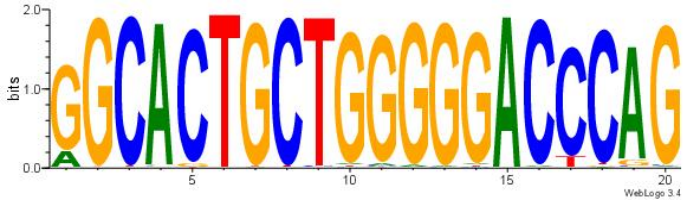

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.104459

Alignment:

```
KKCACCTTGATCTTGGACTT
---GCAGTGAGCYRAGA---
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

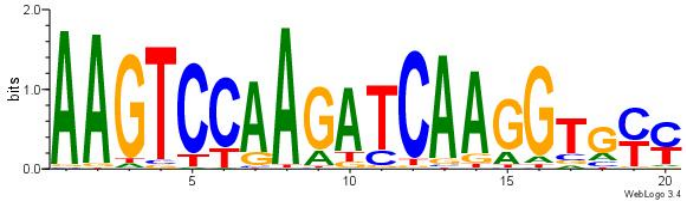

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

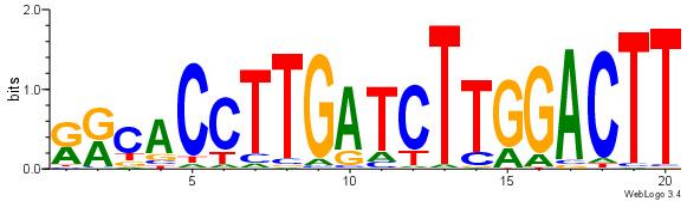

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.104877

Alignment:

```
TCAATGGGCTCCCAAATG
GCAGTGAGCYRAGA----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

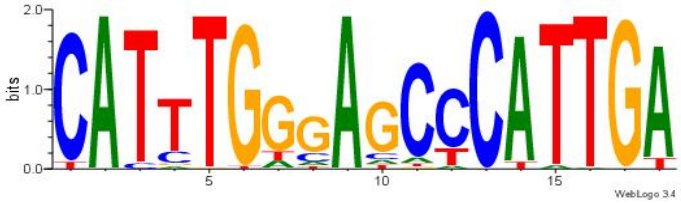

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

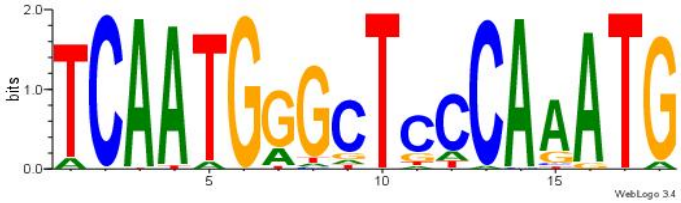

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.10513

Alignment:
CCGCGGGGCAGGGCTCG
TCTMKGCTCACTGC---

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

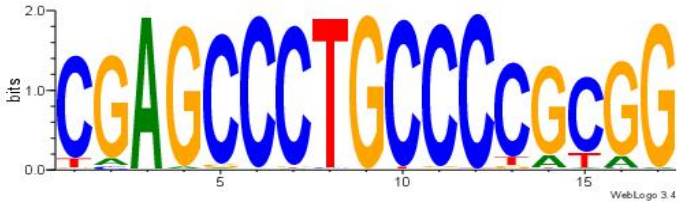

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

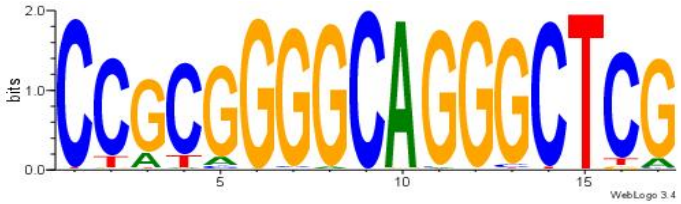

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.105255

Alignment:
GKCTGTACCCCCATTGTAT
---TCTMKGCTCACTGC--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

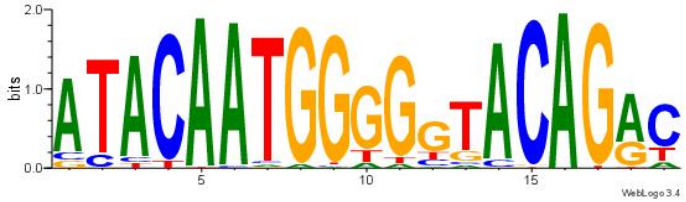

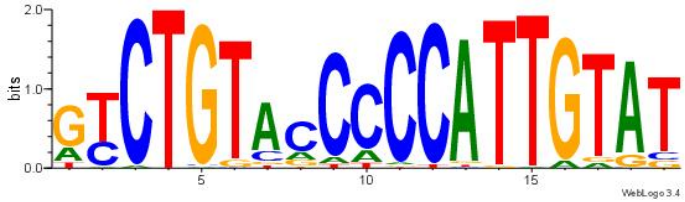

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.10528

Alignment:

```
GTAACACTCACCGCGARGGT
TCTMKGCTCACTGC------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

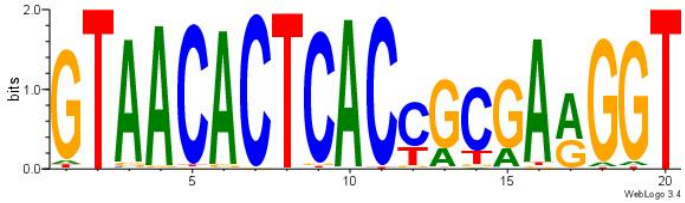

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

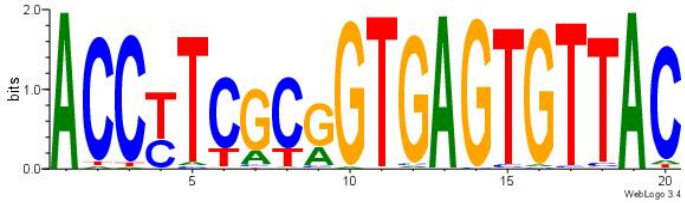

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.105633

Alignment:

```
AAGTTCTKGGKTACATGTGC
----TCTMKGCTCACTGC--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

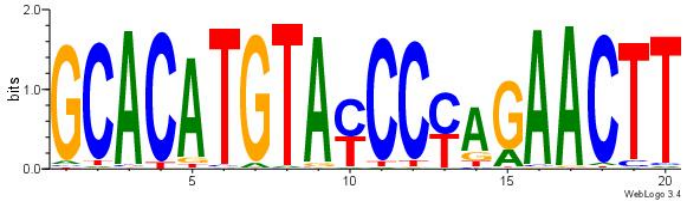

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

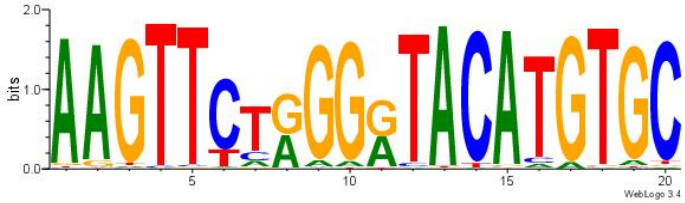

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.106252

Alignment:
AGCAGYTTGGAAACACT
-GCAGTGAGCYRAGA--

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

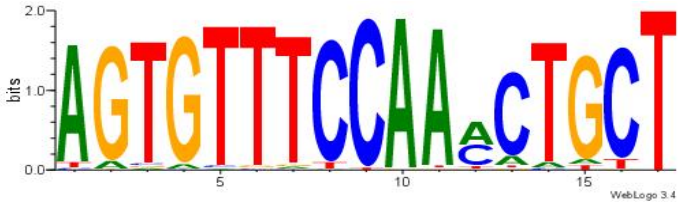

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

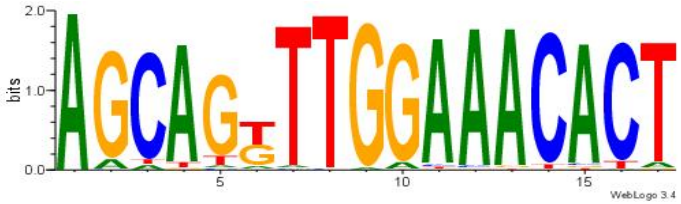

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.106945

Alignment:
VMATTTAKTGAGCACCTACT
----GCAGTGAGCYRAGA--

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

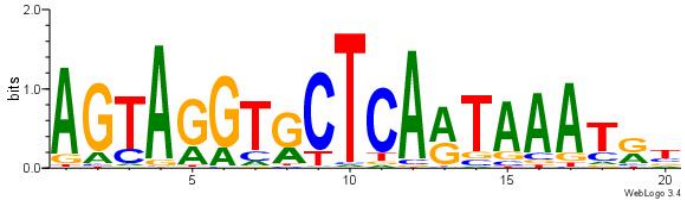

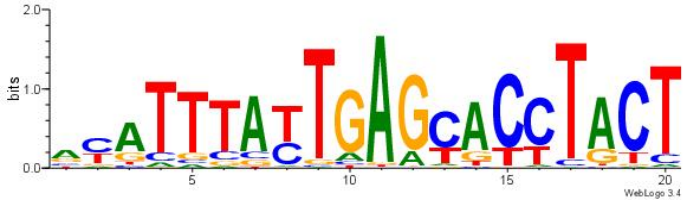

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.107048

Alignment:

```
GGGAGGAAGGGGACAC
-GCAGTGAGCYRAGA-
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

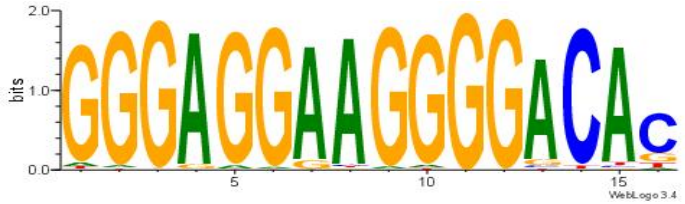

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

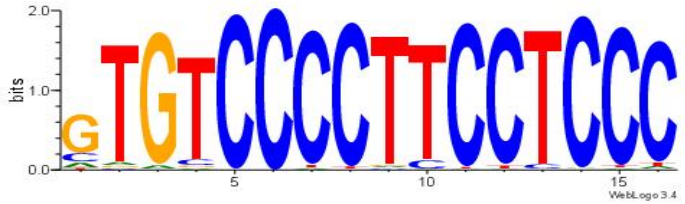

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.107938

Alignment:

```
CTGGGCRACAGAGYRAGACY
----GCAGTGAGCYRAGA--
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

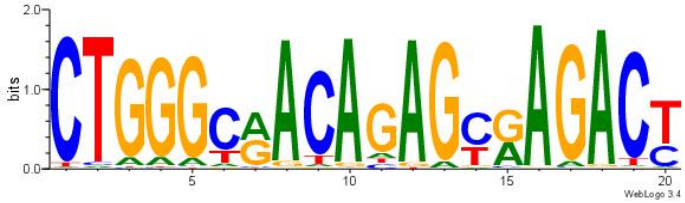

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

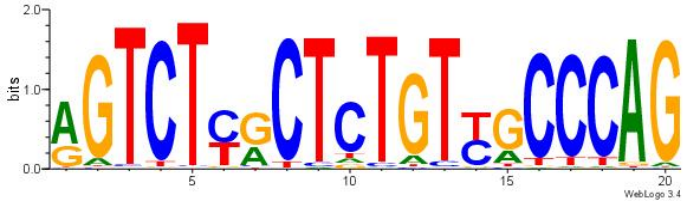

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14

Similarity score: 0.108636

Alignment:
AAGCTCGAACTGGGTGGAGC
------GCAGTGAGCYRAGA

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

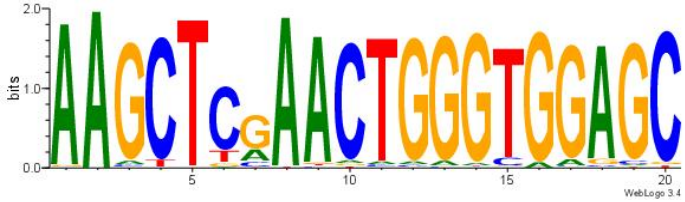

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

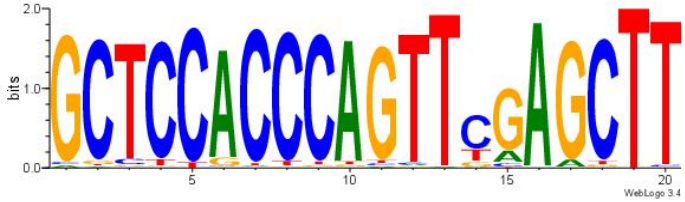

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.108858

Alignment:
ATCTGACAGGAGGYRGAGCT
-----GCAGTGAGCYRAGA-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

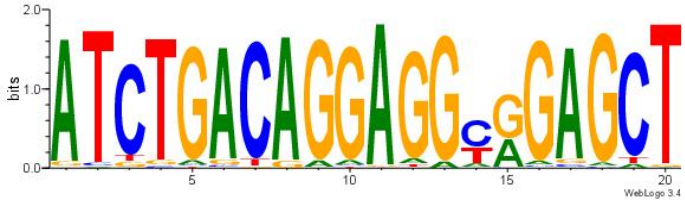

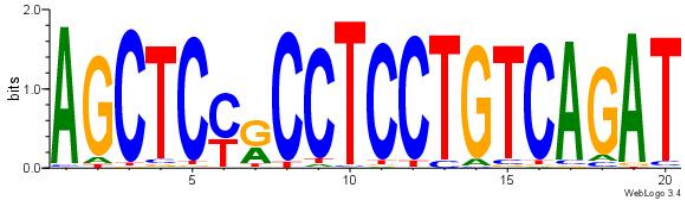

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.109622

Alignment:

```
TTGGTGGTCTCTTCACA
TCTMKGCTCACTGC---
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

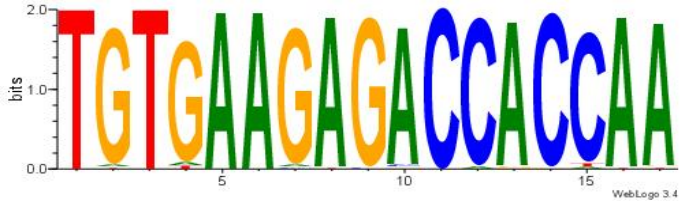

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

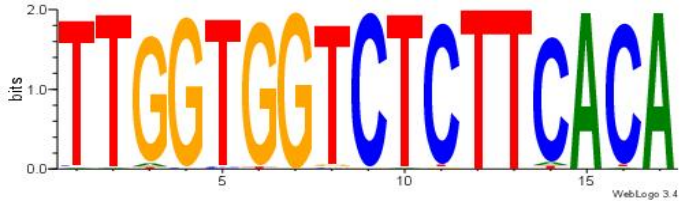

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109905

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
------GCAGTGAGCYRAGA
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

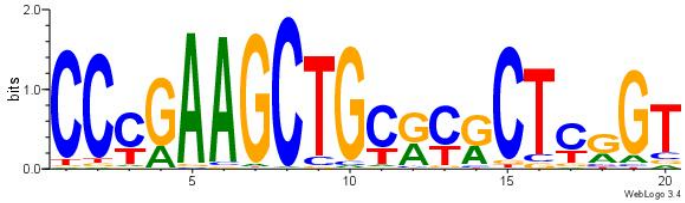

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

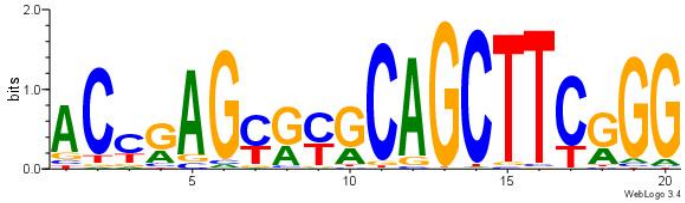

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.109929

Alignment:
GGCATCACGGATCCTACCAA
----TCTMKGCTCACTGC--

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

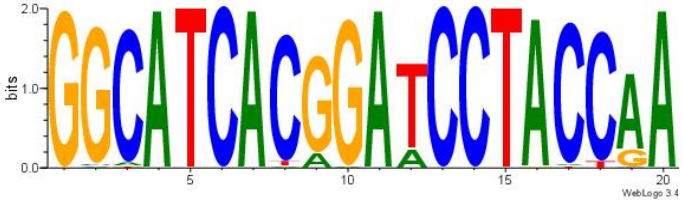

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

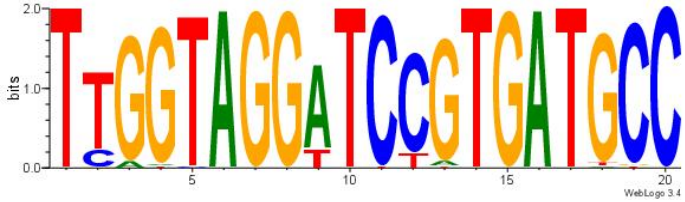

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.109989

Alignment:
GCTGGCCCKGGTGCTAAGC
-----GCAGTGAGCYRAGA

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

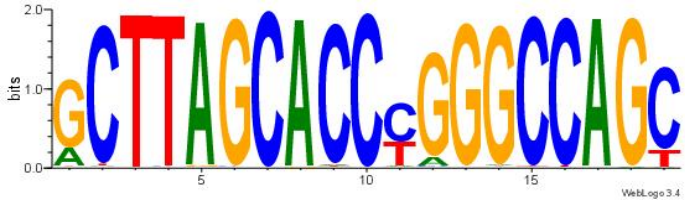

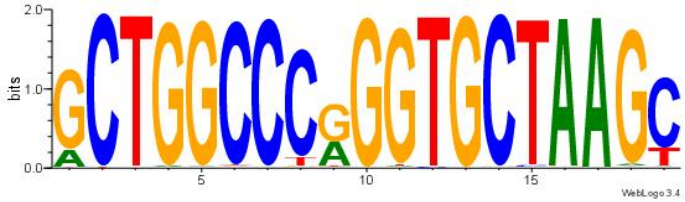

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.110509

Alignment:

```
GACTGGCAGGCAGCTCCACC
-----GCAGTGAGCYRAGA-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

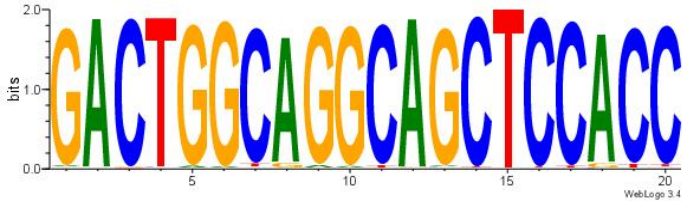

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

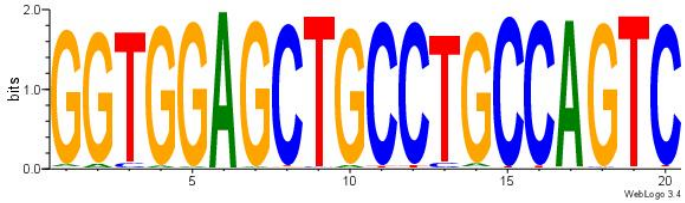

Dataset #:	1

Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.110653

Alignment:

```
GCGGCTGGCCGGGCG
GCAGTGAGCYRAGA-
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

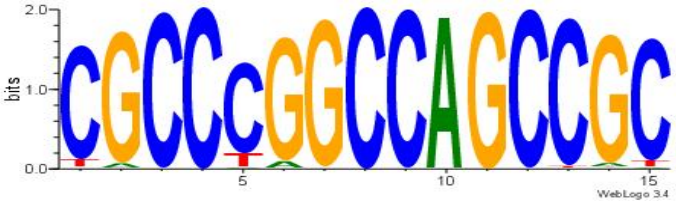

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

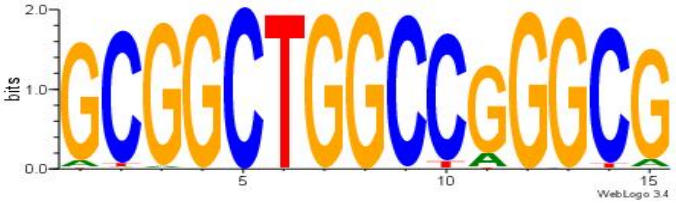

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.110749

Alignment:
GACATGAGCTGGCGCTTG
GCAGTGAGCYRAGA----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

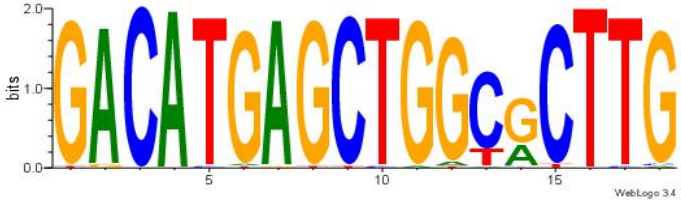

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

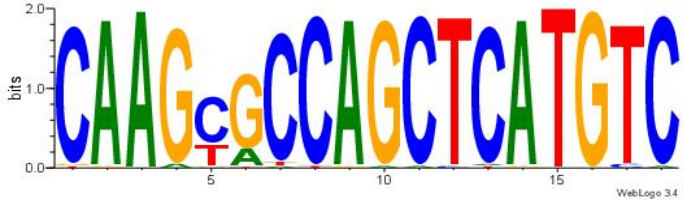

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.110828

Alignment:
CTTGCCCAAGGTCACACAGC
------TCTMKGCTCACTGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

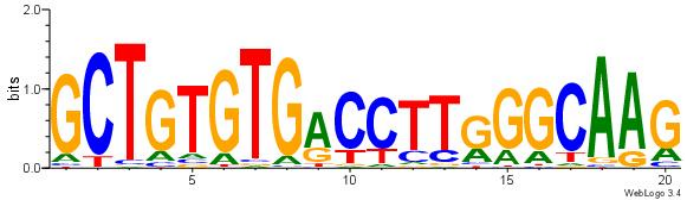

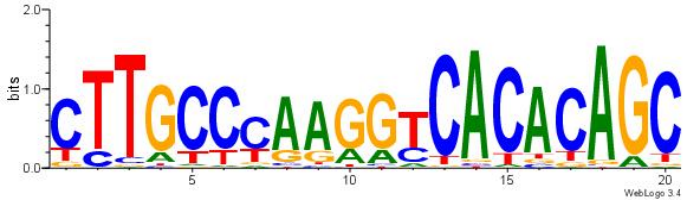

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.110831

Alignment:

```
CTCATTTAATCCTCACAAC
-----TCTMKGCTCACTGC
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

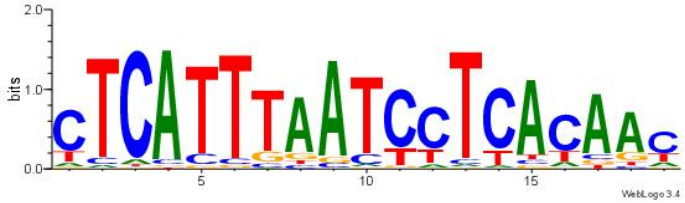

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

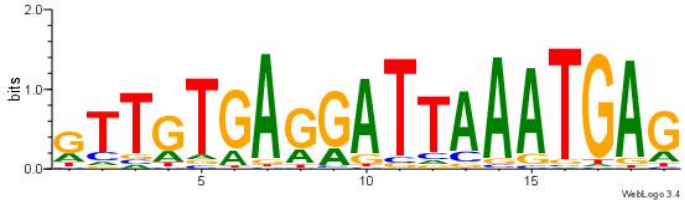

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.111594

Alignment:

```
TAAGTGGGAGCTAARC
--GCAGTGAGCYRAGA
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

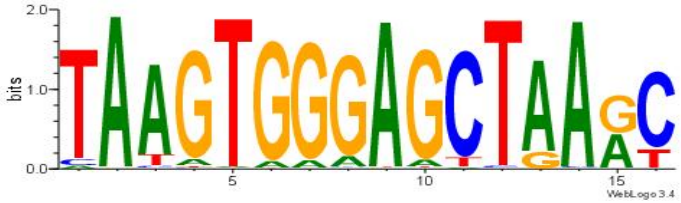

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

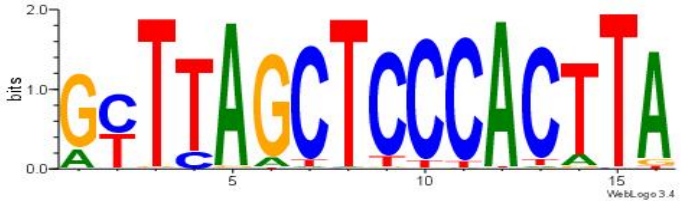

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.111968

Alignment:
GTGCCAGGCACTGTKCTARG
--TCTMKGCTCACTGC----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

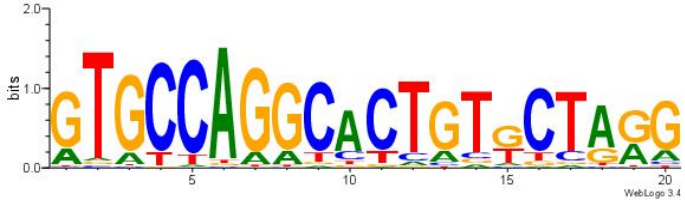

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

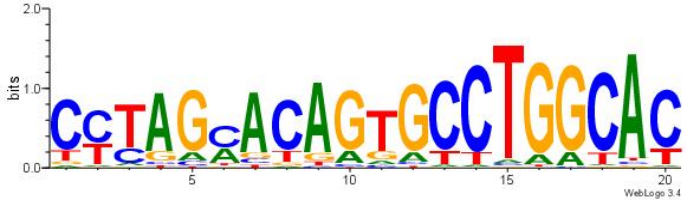

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.112057

Alignment:
GCCGTTTKTTAAGCCCGTY
GCAGTGAGCYRAGA-----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

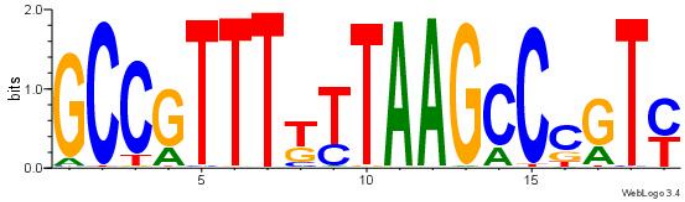

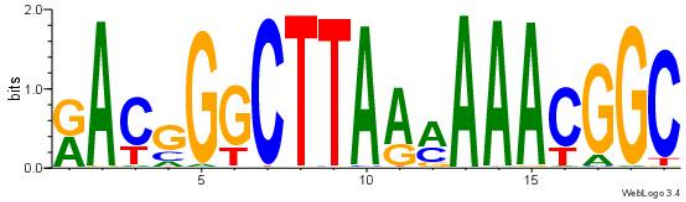

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.112418

Alignment:
TMGGGAGGCTGAGGCAGGAG
-GCAGTGAGCYRAGA-----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

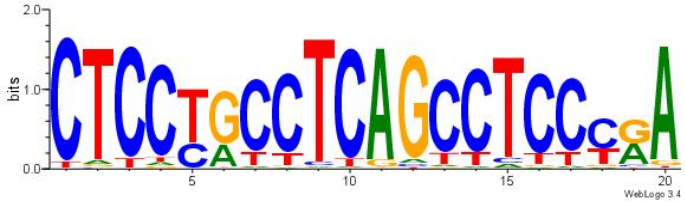

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

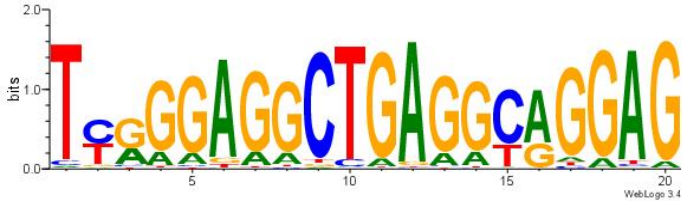

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112903

Alignment:

```
GAAACTGCTTTGTGATGTGT
------GCAGTGAGCYRAGA
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

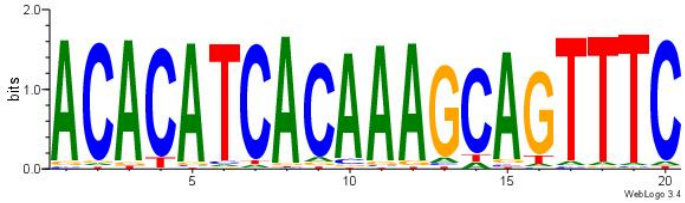

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

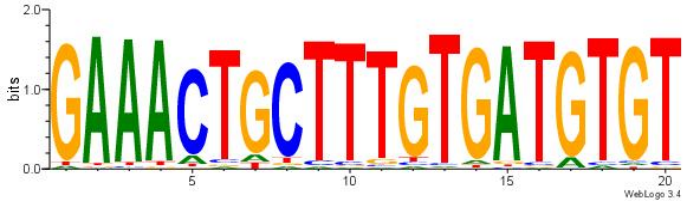

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.113367

Alignment:
AAAGTGCCGAGAKTGCAGC
-----GCAGTGAGCYRAGA

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

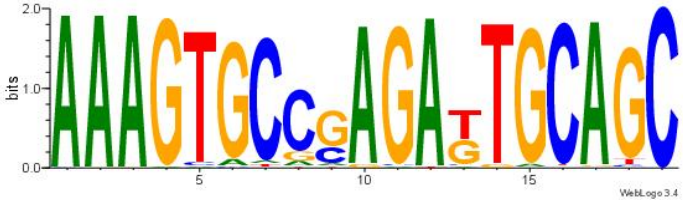

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

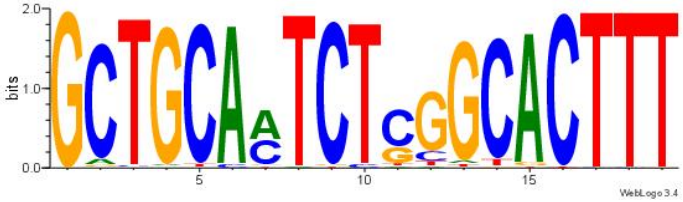

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.113572

Alignment:
AGGACTGAGGGTGCCYRGGG
-----GCAGTGAGCYRAGA-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

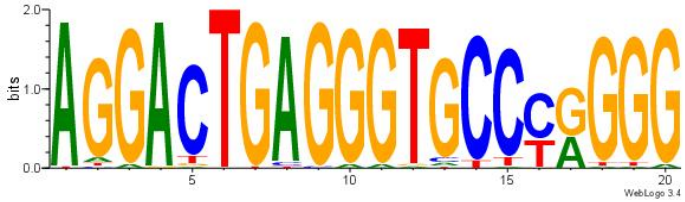

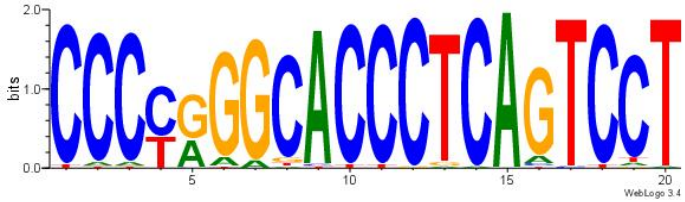

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.113641

Alignment:

```
AGCCCCGGTTCCCGCYCGC
-TCTMKGCTCACTGC----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

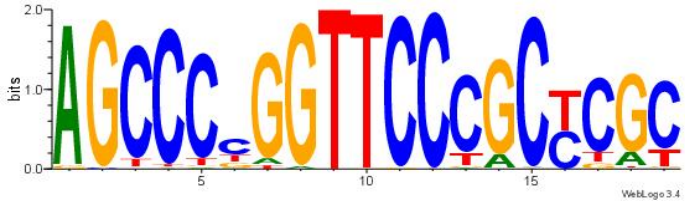

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

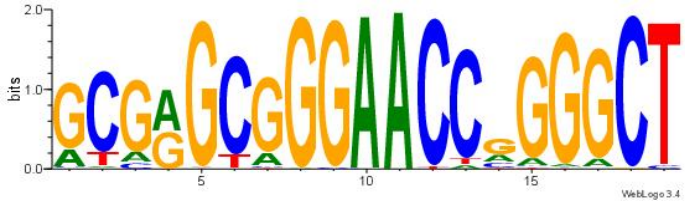

Dataset #: 1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.114064

Alignment:

```
AACTGAGGCTCAGAGA
--TCTMKGCTCACTGC
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

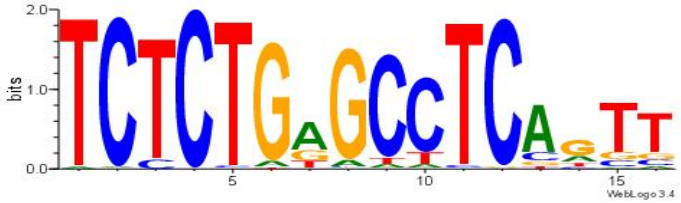

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

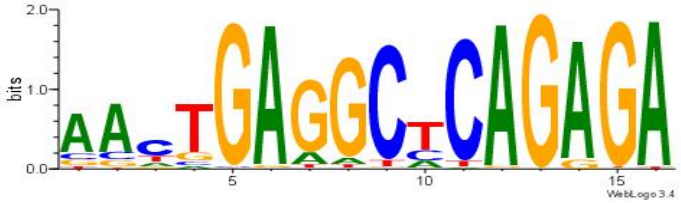

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.114945

Alignment:
TGCCCAGTCTGGAAAGTG
---GCAGTGAGCYRAGA-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

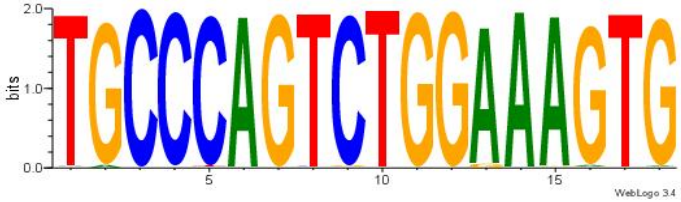

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

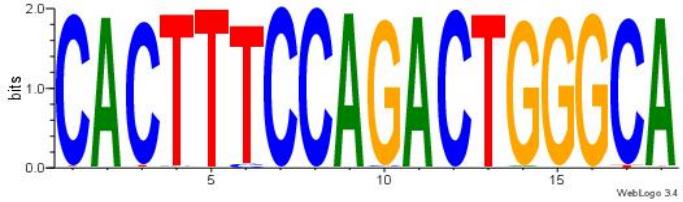

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.115062

Alignment:
AGGAGGAAGTCAATTTC
-GCAGTGAGCYRAGA--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

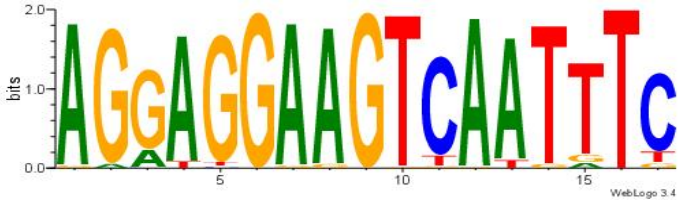

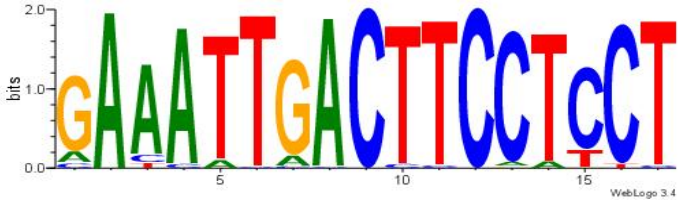

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.115769

Alignment:

```
GCCACCAMGCCMKGCTAAT
-TCTMKGCTCACTGC----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

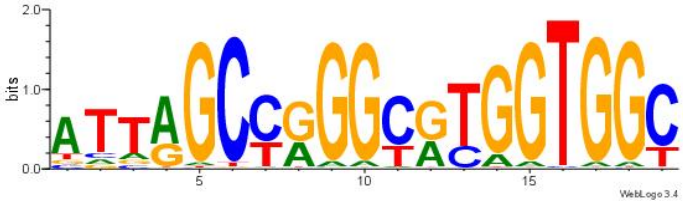

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

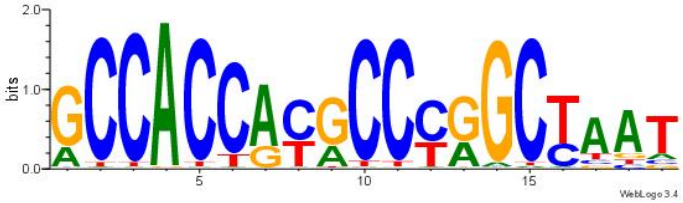

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.11578

Alignment:

```
TCKMGCCACTGCACTCCAGC
TCTMKGCTCACTGC------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

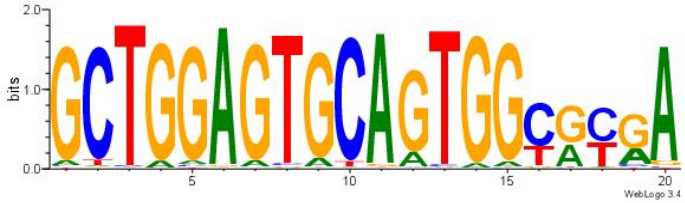

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

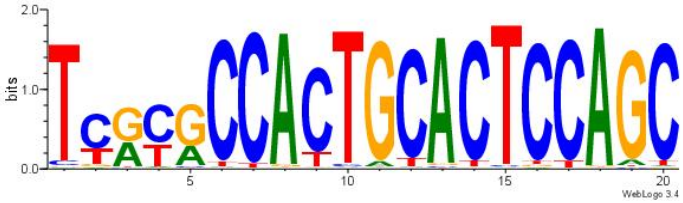

Dataset #: 1 Motif ID: 39 Motif name: Motif 39

Original motif Consensus sequence: AGGCGGCTGGGAGG

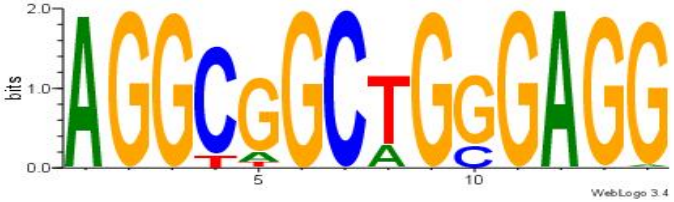

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Best Matches for Motif ID 39 (Highest to Lowest)

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0839569

Alignment:
AGGASCSTCYSWGCCMGGY
CCTCCCAGCCGCCT-----

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

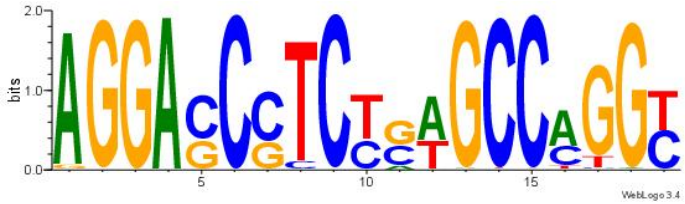

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

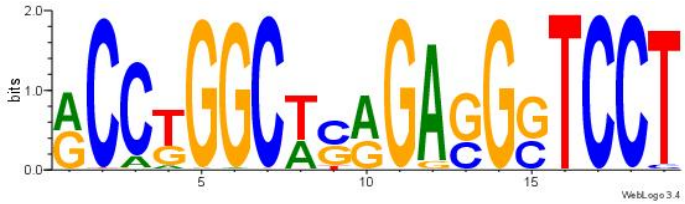

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0883656

Alignment:
GACCTGCAGCCCGCCATG
--CCTCCCAGCCGCCT--

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

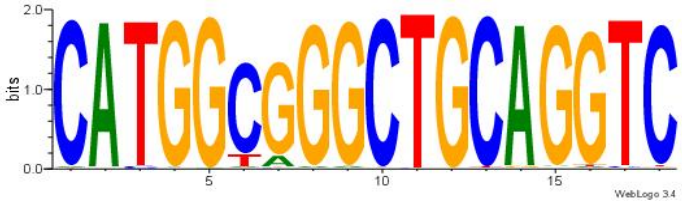

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

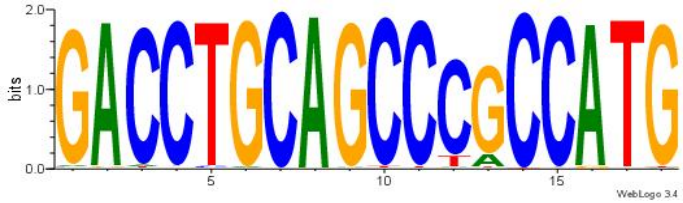

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0920495

Alignment:
GCCRGCCCTGCYGGCC
--CCTCCCAGCCGCCT

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

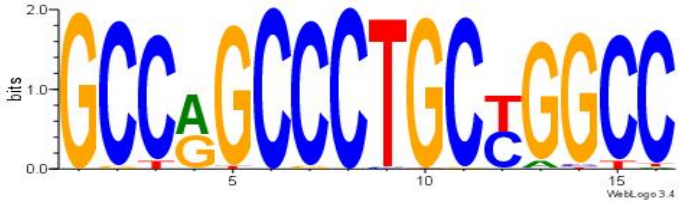

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

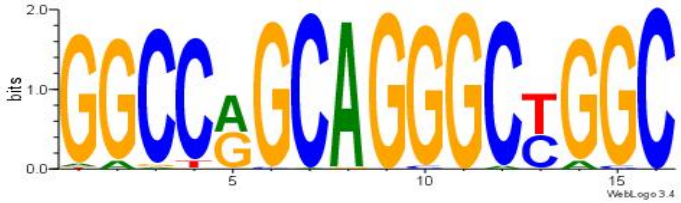

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0926326

Alignment:

```
ACATCCCAGACGATGGGCG
----CCTCCCAGCCGCCT-
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

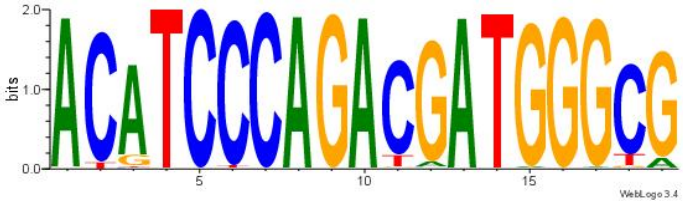

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

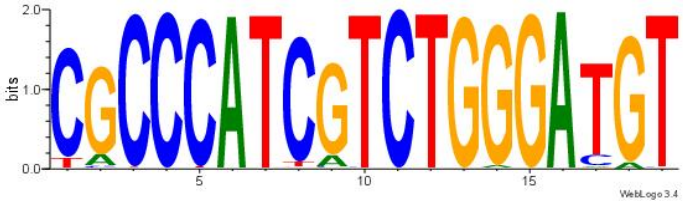

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0926448

Alignment:

```
CGCCCCGTCTGGGAAGTG
--AGGCGGCTGGGAGG--
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

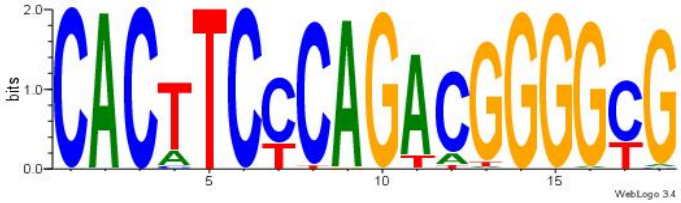

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

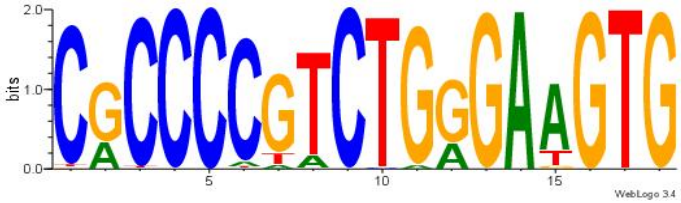

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.0951714

Alignment:
CCCCGGGCAGTGAGGG
-AGGCGGCTGGGAGG-

Original motif Consensus sequence: CCCTCACTGCCCGGGG

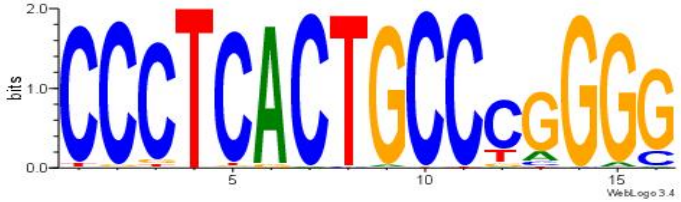

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

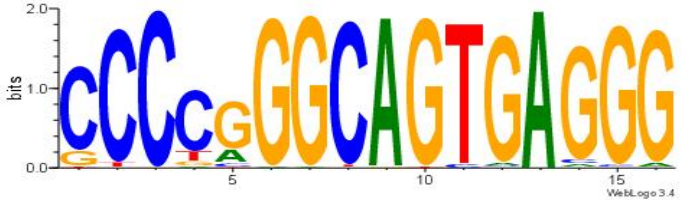

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0952097

Alignment:
GCCKCCCCGTCCGGGAGGGA
----AGGCGGCTGGGAGG--

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

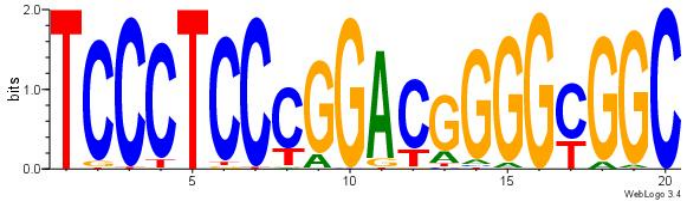

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

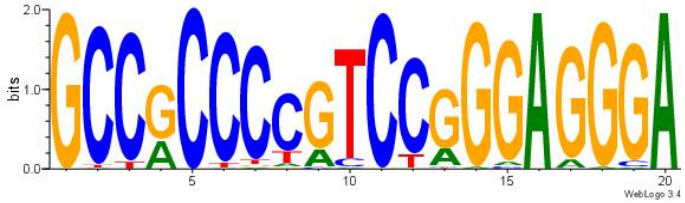

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0956147

Alignment:

```
ACCCYGTCTGGGAGGTG
-AGGCGGCTGGGAGG--
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

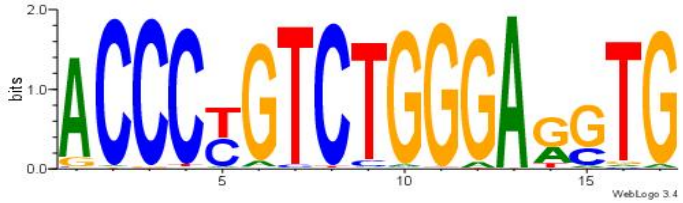

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

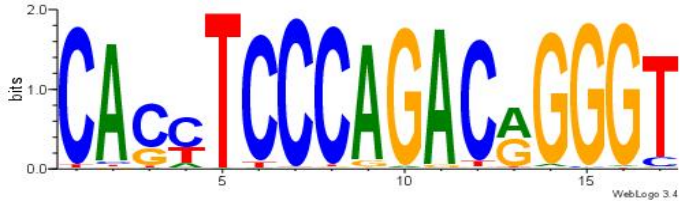

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0980005

Alignment:
GAGSTTGCAGTGAGC
AGGCGGCTGGGAGG-

Original motif Consensus sequence: GCTCACTGCAASCTC

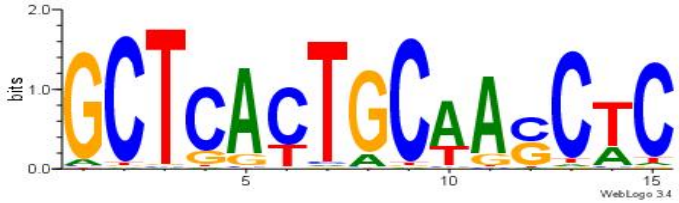

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

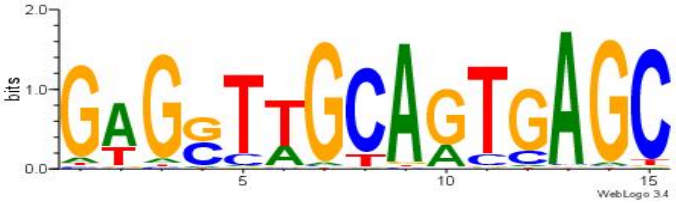

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.0998725

Alignment:
CGAGCCTCCCCGAYGAGCGC
----CCTCCCAGCCGCCT--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

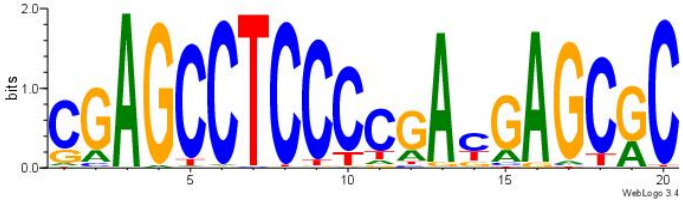

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

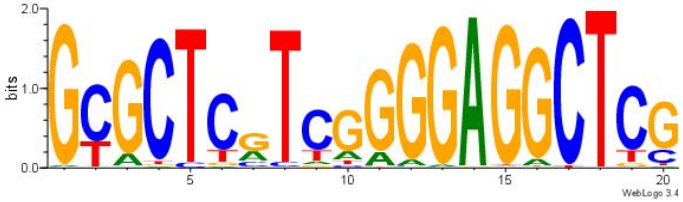

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.100904

Alignment:
ATGTGGAGGTGGAAGACAGT
------AGGCGGCTGGGAGG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

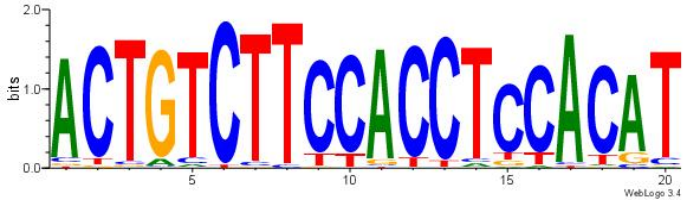

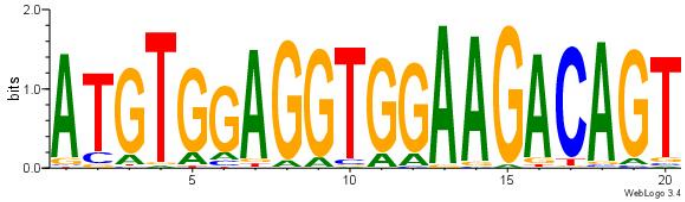

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.101078

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
-----AGGCGGCTGGGAGG-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

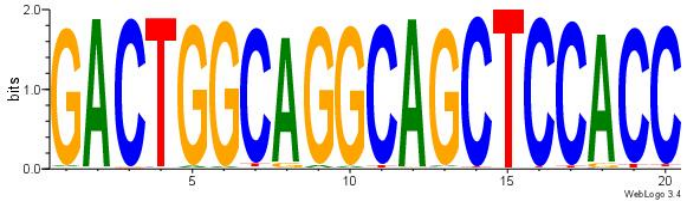

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

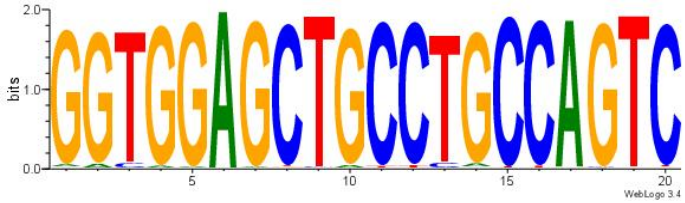

Dataset #:	1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.101761

Alignment:

```
TCTCTGAGCCTCAGTT
CCTCCCAGCCGCCT--
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

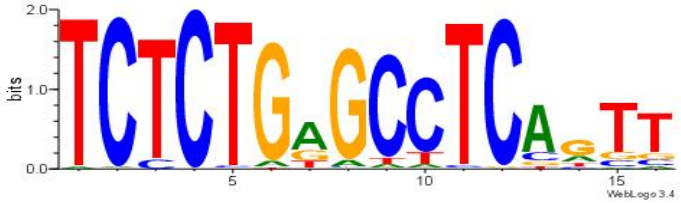

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

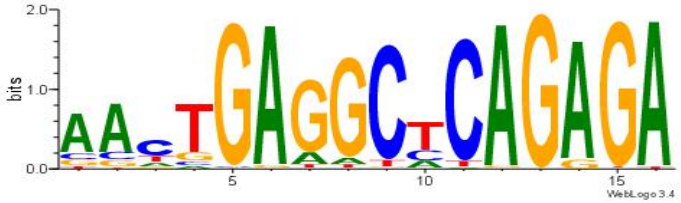

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.103101

Alignment:
GAAGGCAGCTAAGGCCCGGY
--AGGCGGCTGGGAGG----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

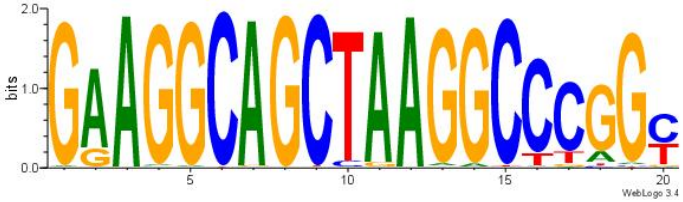

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

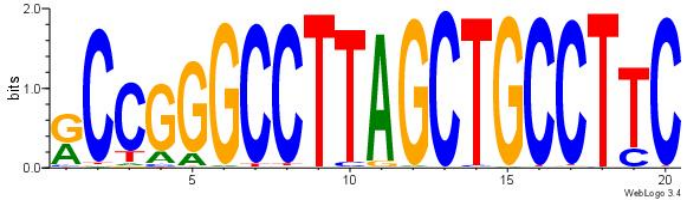

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.103497

Alignment:
TMGGGAGGCTGAGGCAGGAG
----AGGCGGCTGGGAGG--

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

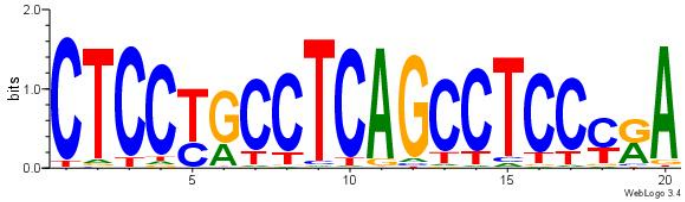

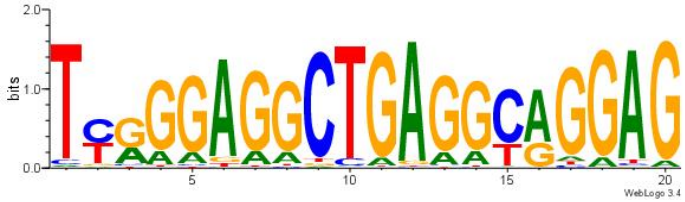

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.10484

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
---AGGCGGCTGGGAGG---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

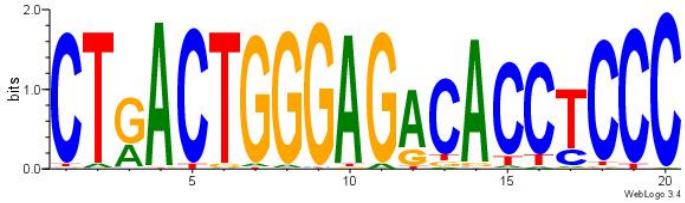

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

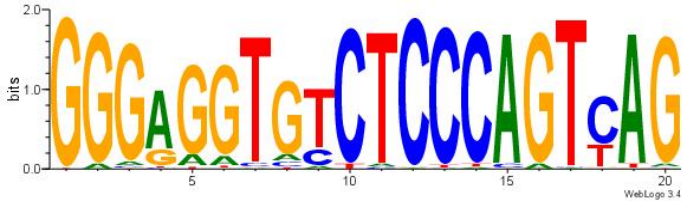

Dataset #:	1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.106709

Alignment:

```
AGGAGCCCCTCHGCCCR
--CCTCCCAGCCGCCT-
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

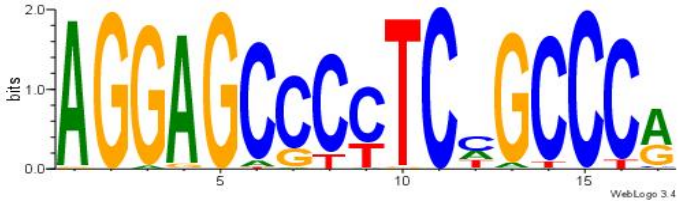

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.107104

Alignment:
AGCTCCCAGCGTGAGCGACG
-CCTCCCAGCCGCCT-----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

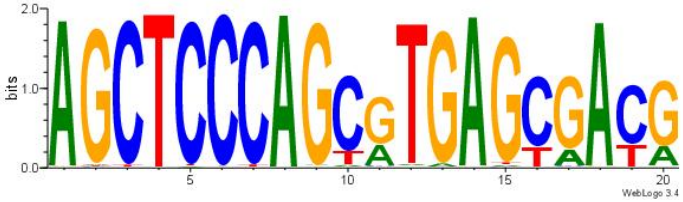

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

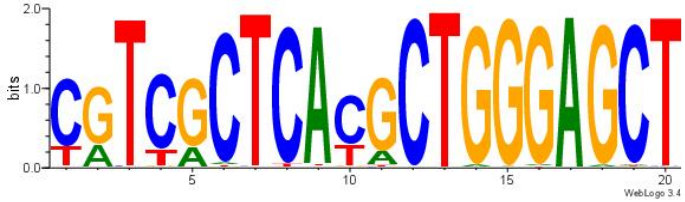

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.107762

Alignment:
AGGGATCTAGGTTGCR
AGGCGGCTGGGAGG--

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

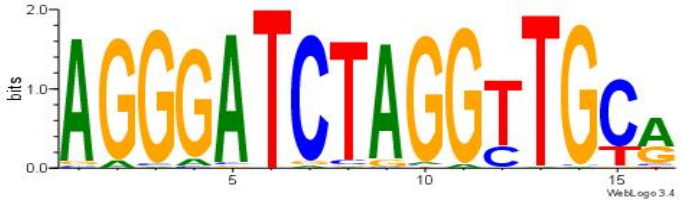

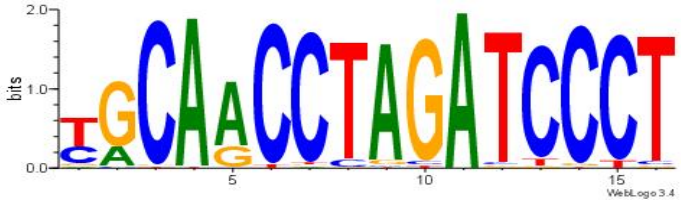

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.108044

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-----AGGCGGCTGGGAGG-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

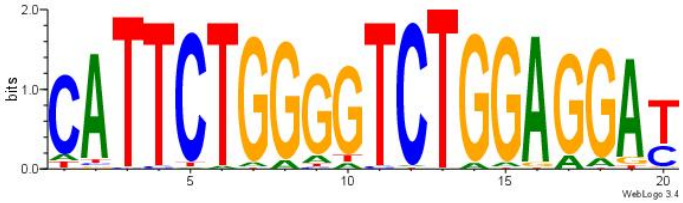

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

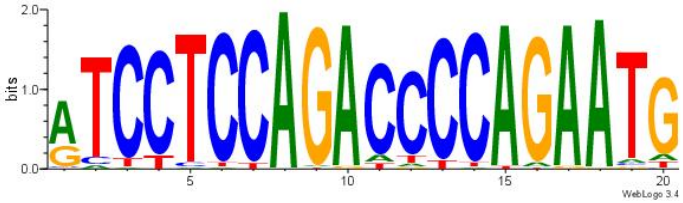

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.109038

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
-----CCTCCCAGCCGCCT-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

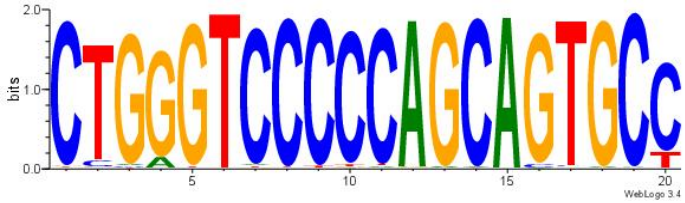

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

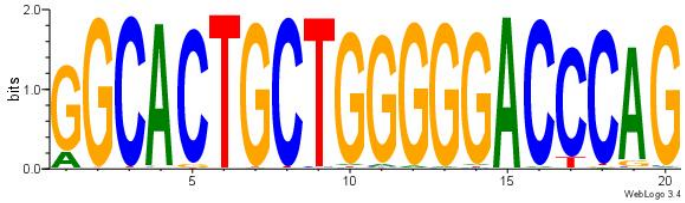

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.109387

Alignment:
AGATGCCAGCCAGAGCTCT
-----CCTCCCAGCCGCCT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

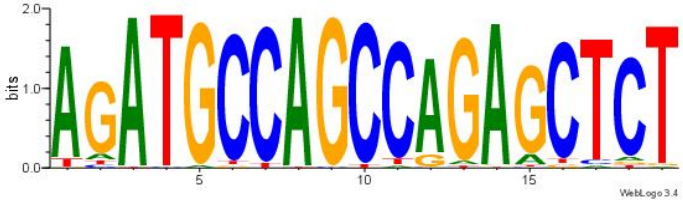

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

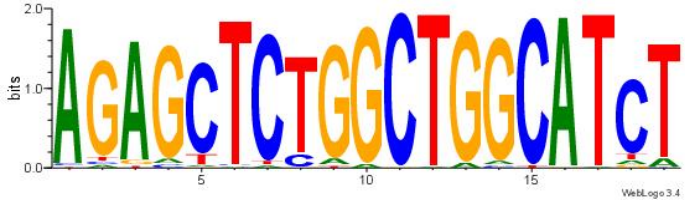

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.109966

Alignment:
AAGACCTTCCAGTGGGACAA
----CCTCCCAGCCGCCT--

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

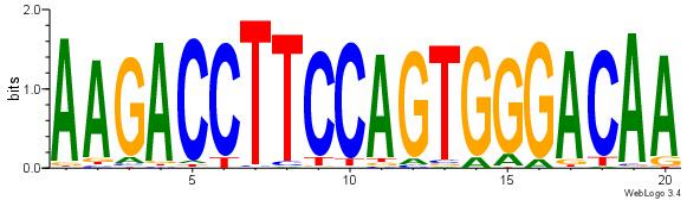

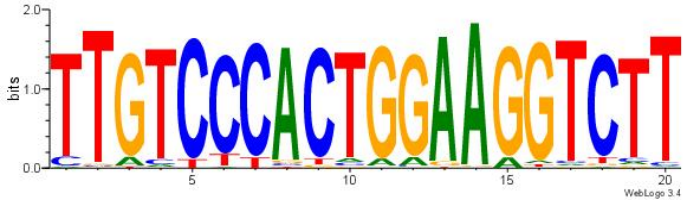

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.109976

Alignment:

```
CCCACGCCCACCCGGAACT
---CCTCCCAGCCGCCT--
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

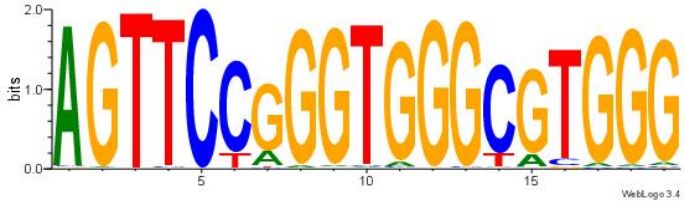

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

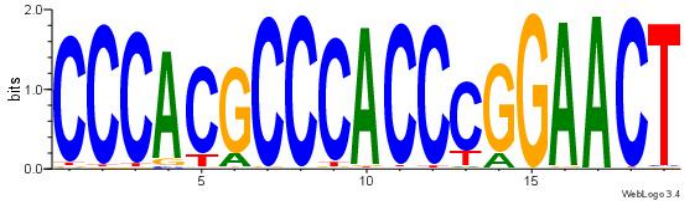

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.111659

Alignment:

```
AACAACASACACTGGGGCCT
------CCTCCCAGCCGCCT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

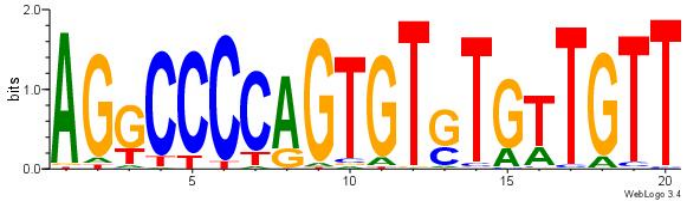

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

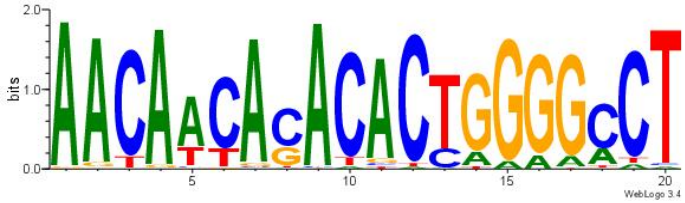

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.112111

Alignment:
CGCGGCGCTTGCGGGCCAGC
--AGGCGGCTGGGAGG----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

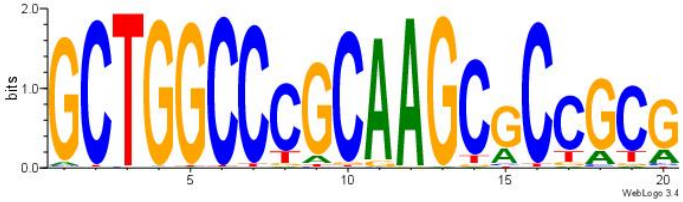

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

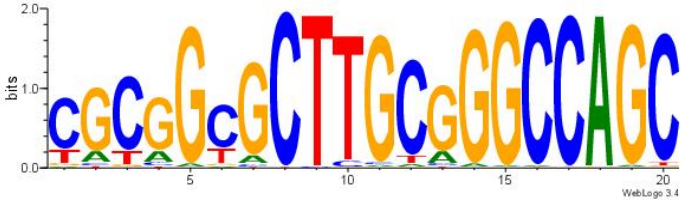

Dataset #: 1
Motif ID: 341
Motif name: Motif 341
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.112916

Alignment:
TGGATGGATGGATGGAT
-AGGCGGCTGGGAGG--

Original motif Consensus sequence: ATCCATCCATCCATCCA

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

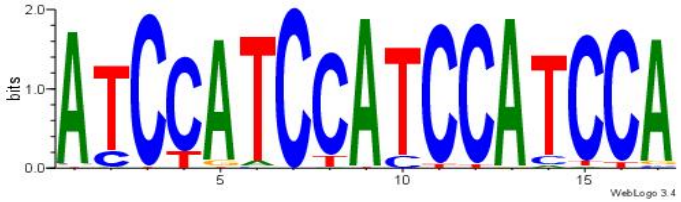

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.112948

Alignment:

```
GGTGCCCCTCTGGGACRAA
---AGGCGGCTGGGAGG--
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

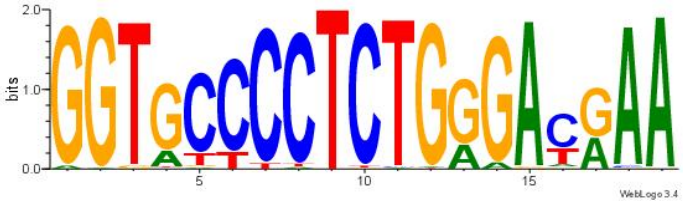

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

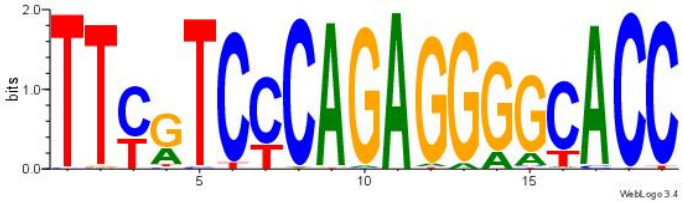

Dataset #: 1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.113894

Alignment:

```
GGGCTCCCACAGTGCAGCGG
------CCTCCCAGCCGCCT
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

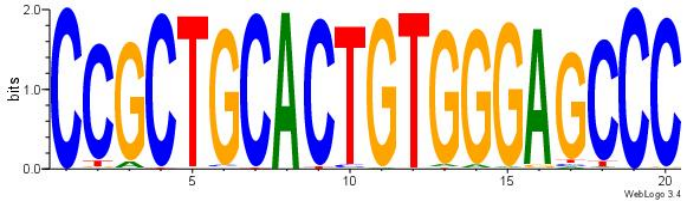

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

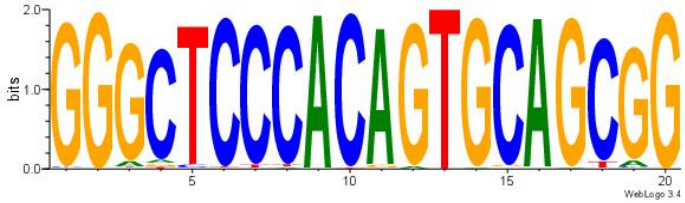

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.11406

Alignment:
CTTCGCTGACTCTCTTT
CCTCCCAGCCGCCT---

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

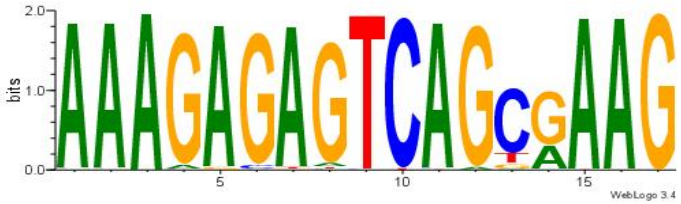

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

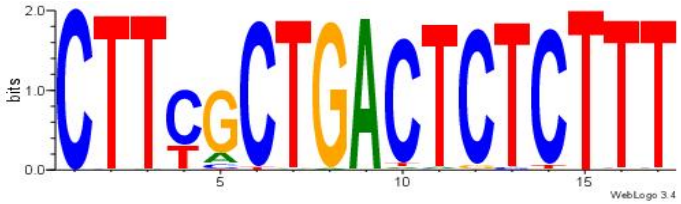

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.114222

Alignment:
ATCRCTTGAGSYCAGGAGKT
-----AGGCGGCTGGGAGG-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

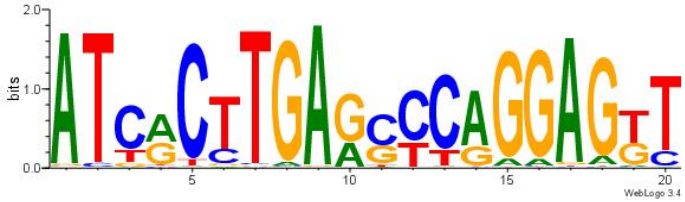

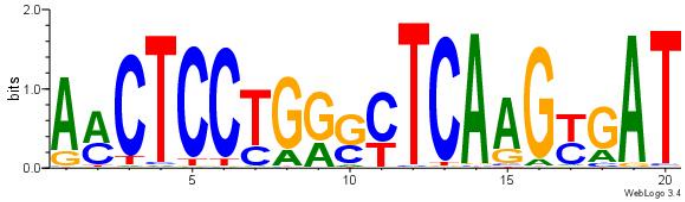

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.115105

Alignment:

```
ATTAGCYRGGCRTGGTGGC
---AGGCGGCTGGGAGG--
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

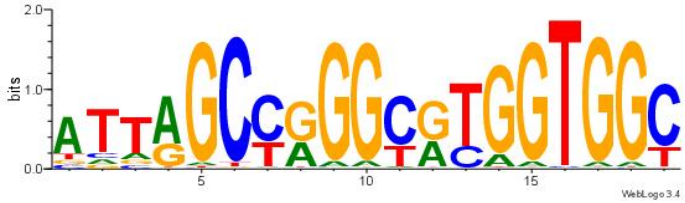

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

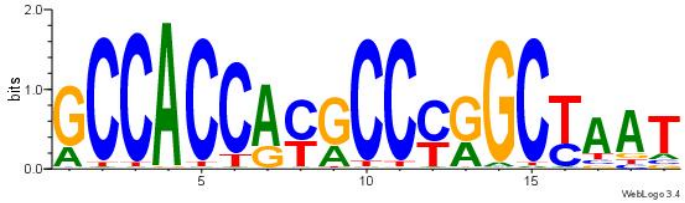

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.11553

Alignment:

```
GTGTCCCCTTCCTCCC
--CCTCCCAGCCGCCT
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

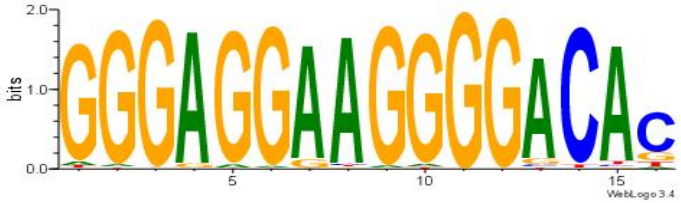

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

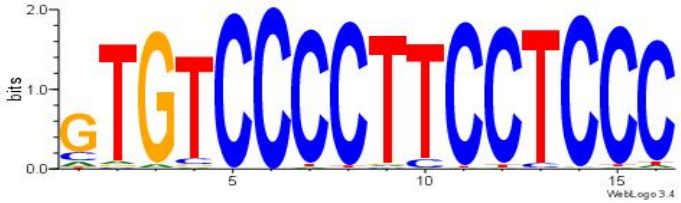

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.115657

Alignment:
GCCTCTCCCTCCACACCTCC
---CCTCCCAGCCGCCT---

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

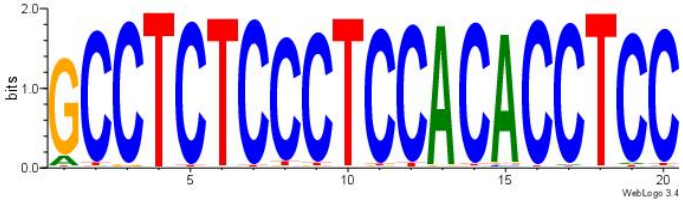

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

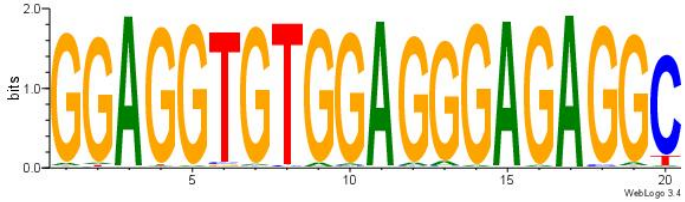

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.116035

Alignment:
GAAATTGACTTCCTCCT
---CCTCCCAGCCGCCT

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

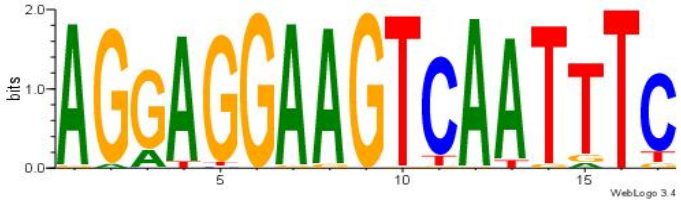

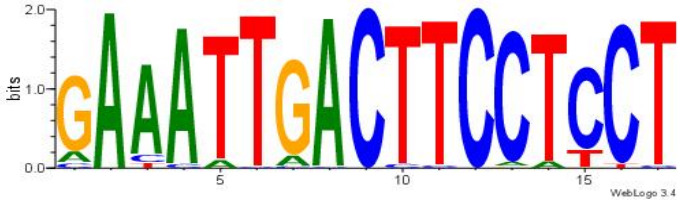

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.116541

Alignment:

```
VCCDCCTCCKCCTCCTC
--CCTCCCAGCCGCCT-
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

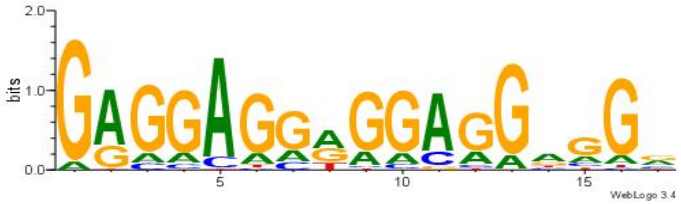

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

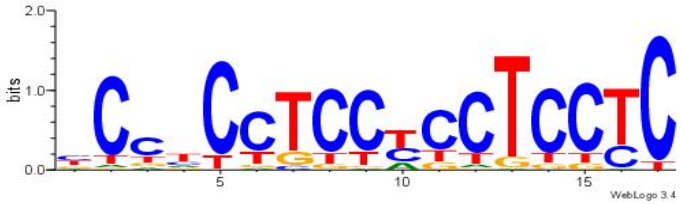

Dataset #:	1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.116857

Alignment:

```
AGCCCCGGTTCCCGCYCGC
---CCTCCCAGCCGCCT--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

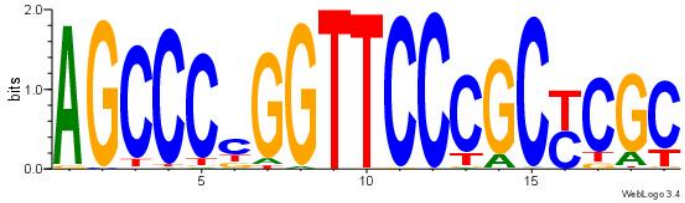

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

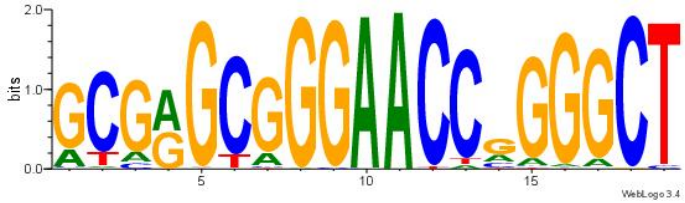

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.116876

Alignment:
CCCMKGGCACCCTCAGTCCT
------CCTCCCAGCCGCCT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

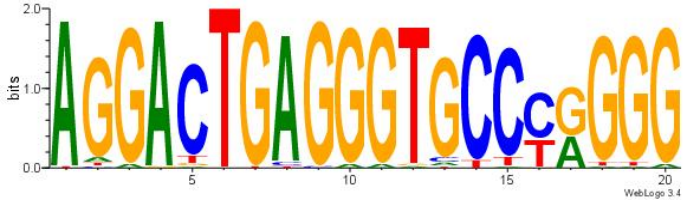

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

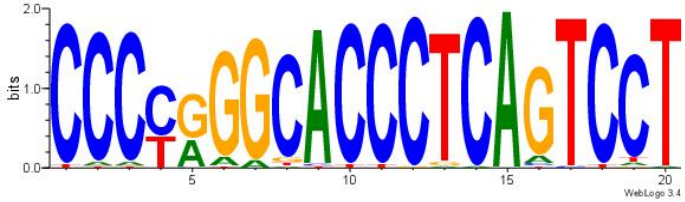

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.117656

Alignment:
TAMGACCTCAGGTCCTCAG
-----CCTCCCAGCCGCCT

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

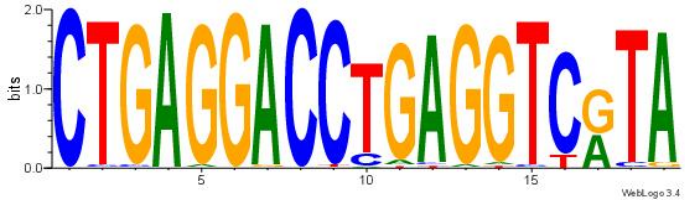

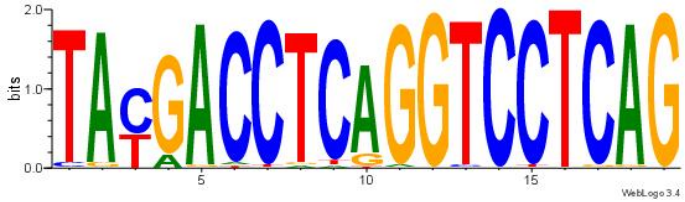

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.117792

Alignment:

```
GTCCCATCGACCACCCAAG
--CCTCCCAGCCGCCT---
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

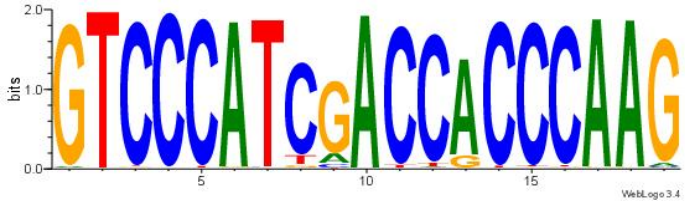

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

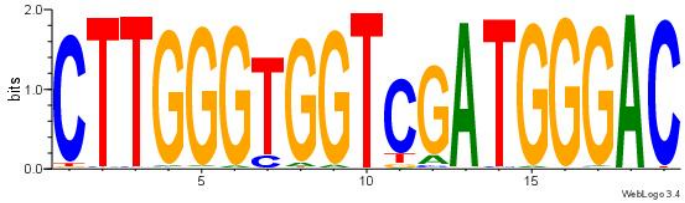

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.11808

Alignment:

```
CAAGCCTSKGCAATGGCAGG
-AGGCGGCTGGGAGG-----
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

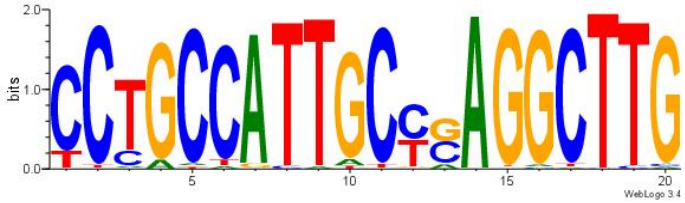

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

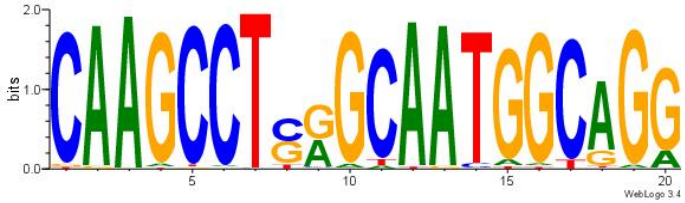

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.118313

Alignment:
AGTGTTTCCAAMCTGCT
---CCTCCCAGCCGCCT

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

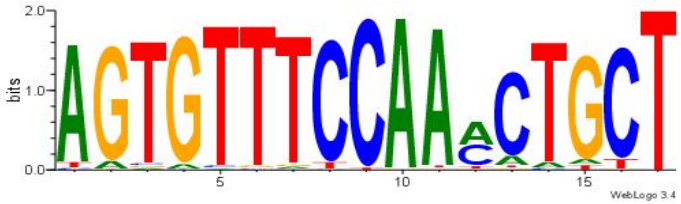

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

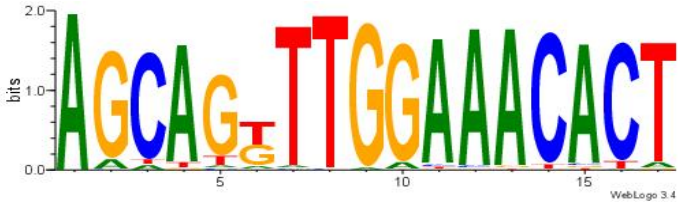

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.118513

Alignment:
CCCTGCTAGAACCTCCAA
-CCTCCCAGCCGCCT---

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

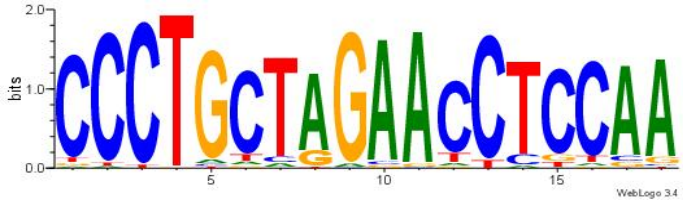

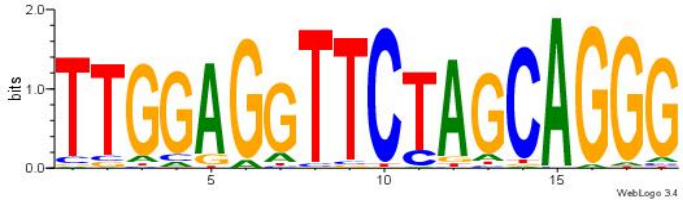

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.118605

Alignment:

```
AGCCYCTGGYAACCAYYAWT
----CCTCCCAGCCGCCT--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

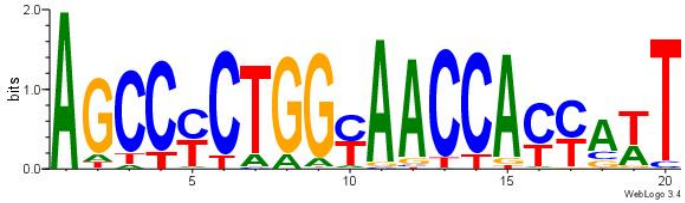

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

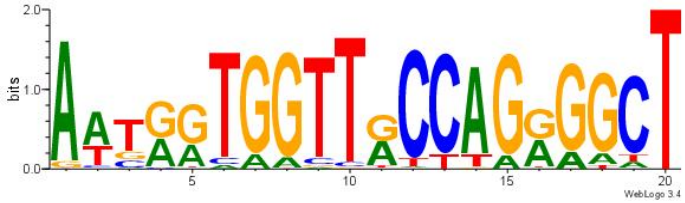

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.118974

Alignment:

```
ACTCAGCCCRCCTGCACCC
---CCTCCCAGCCGCCT--
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

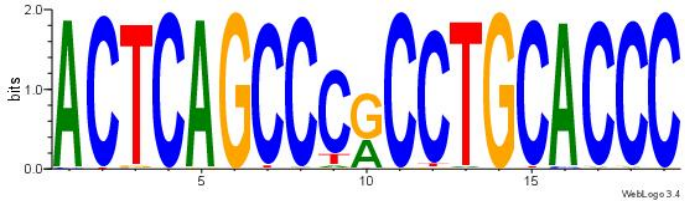

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

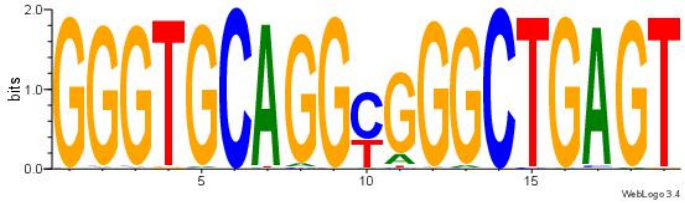

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.119122

Alignment:
CGAGCCCTGCCCCGCGG
-CCTCCCAGCCGCCT--

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

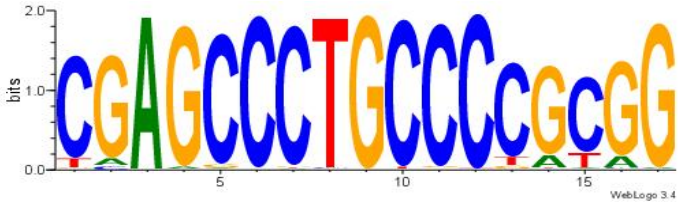

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

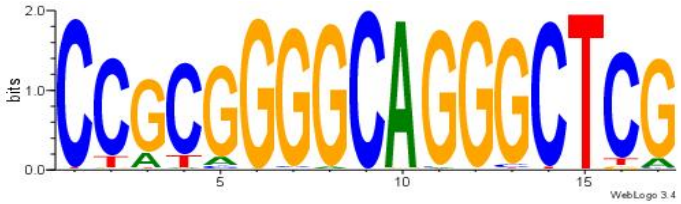

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.119358

Alignment:
TAGATAATAGCTCCAGCTTT
-----CCTCCCAGCCGCCT-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

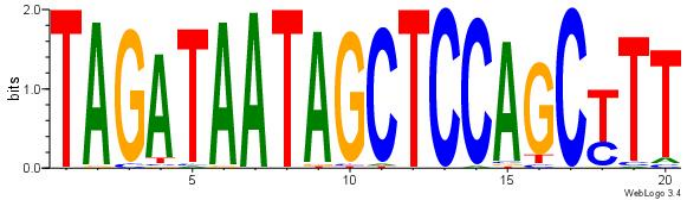

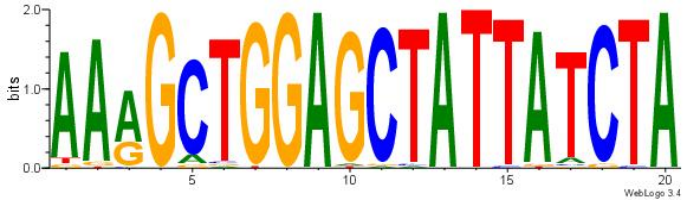

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.120013

Alignment:

```
CAGCTACTCKTATACCCTTG
-----CCTCCCAGCCGCCT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

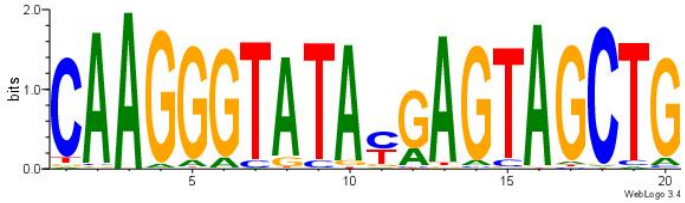

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

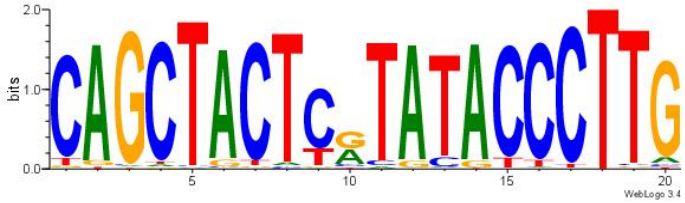

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.120025

Alignment:

```
ATGATCCAGCAATYCCACTH
-----CCTCCCAGCCGCCT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

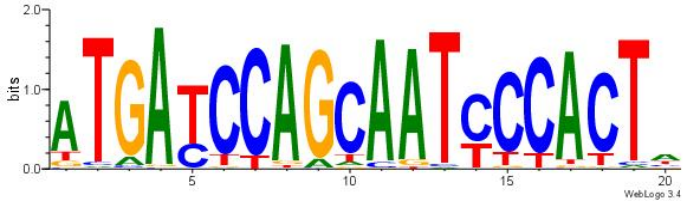

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

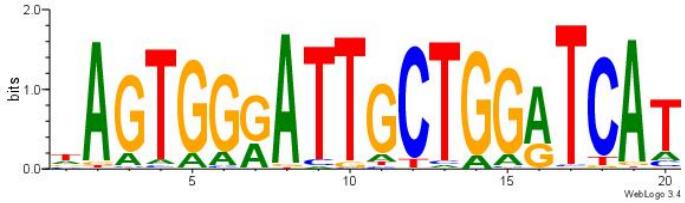

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.120262

Alignment:
CCACCACAGCTCAAGGAGGC
-----AGGCGGCTGGGAGG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

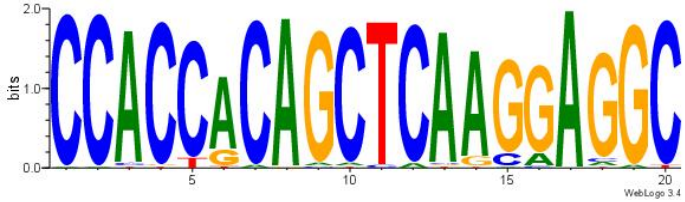

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

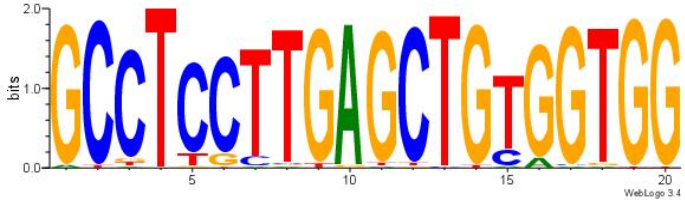

Dataset #: 1 Motif ID: 40 Motif name: Motif 40

Original motif Consensus sequence: ACTTTGGGAGGC

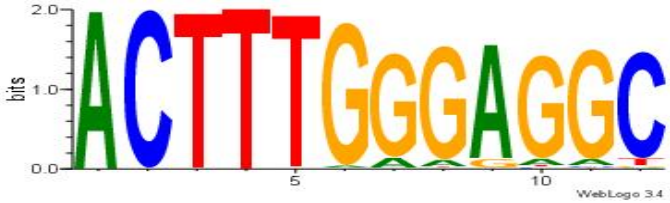

Reverse complement motif Consensus sequence: GCCTCCCAAAGT

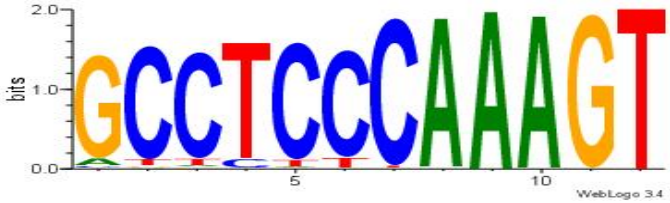

Best Matches for Motif ID 40 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0448889

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-GCCTCCCAAAGT-------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

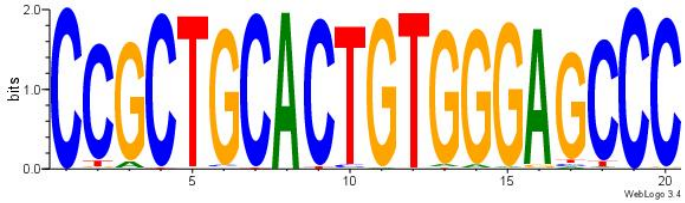

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

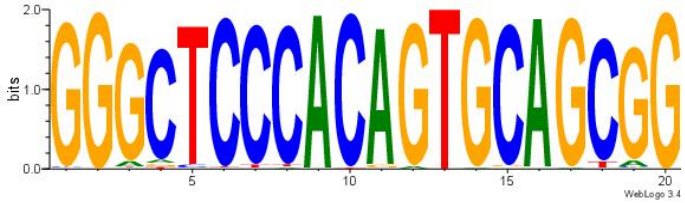

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0724344

Alignment:

```
ACAGTTCTGGAGGCT
--ACTTTGGGAGGC-
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

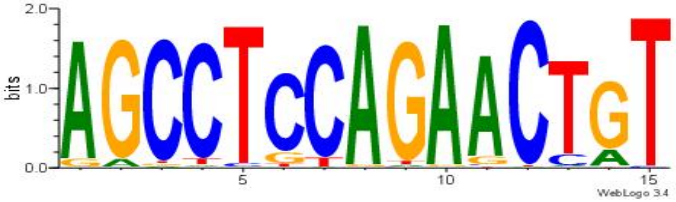

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0760424

Alignment:

```
TGGCTTCACCCAGTGGATCC
--GCCTCCCAAAGT------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

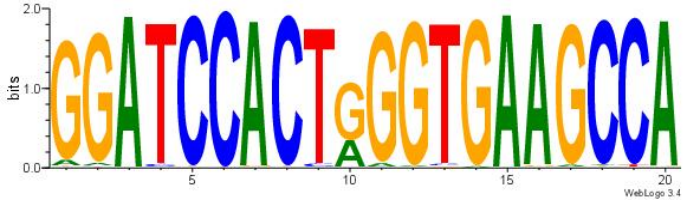

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

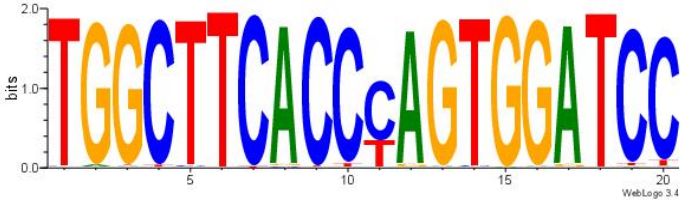

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0785575

Alignment:

```
TCAATGGGCTCCCAAATG
------GCCTCCCAAAGT
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

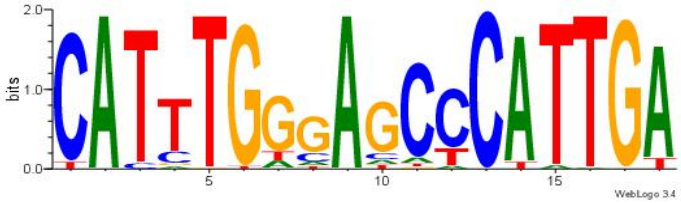

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

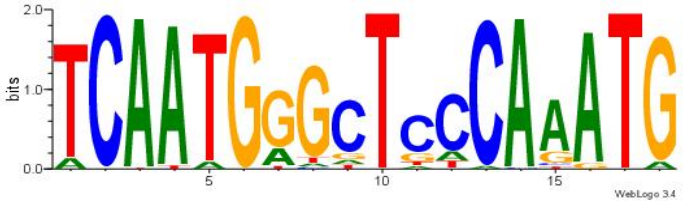

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 12
Similarity score: 0.081011

Alignment:
GCGCTCKTCGGGGAGGCTCG
-----ACTTTGGGAGGC---

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

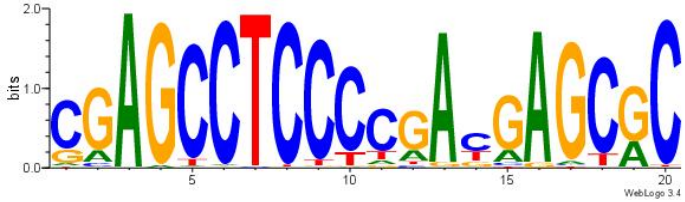

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

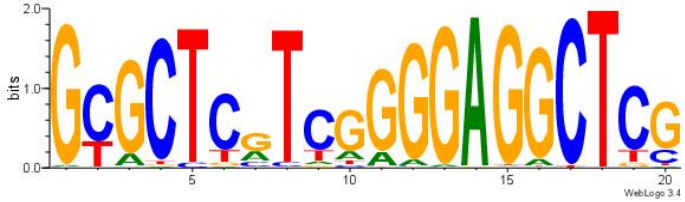

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0825713

Alignment:
AGGTCCTTCAGGAGGTATTC
----ACTTTGGGAGGC----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

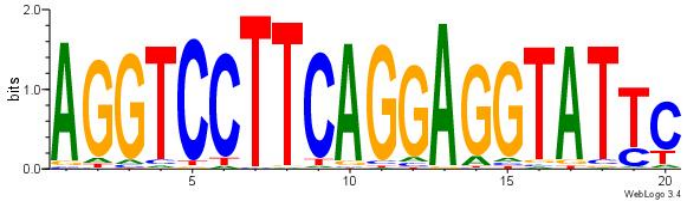

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

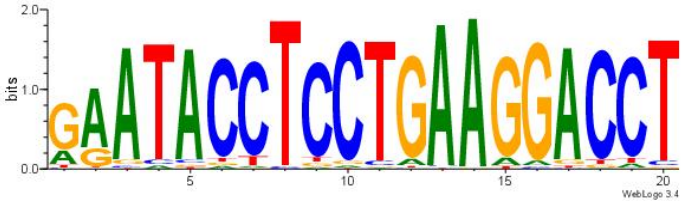

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0835148

Alignment:

```
ACTTTGGACTGTGGACTTTT
ACTTTGGGAGGC--------
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

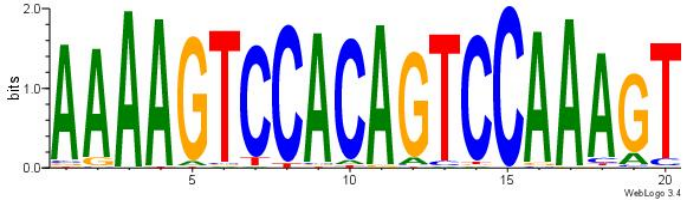

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

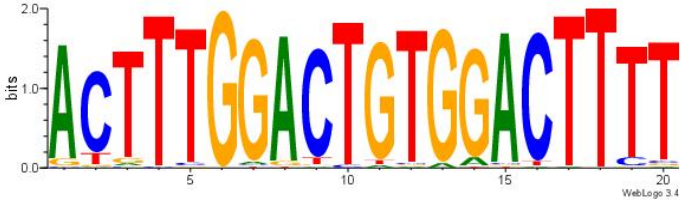

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0841472

Alignment:

```
ACACATCACAAAGCAGTTTC
--GCCTCCCAAAGT------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

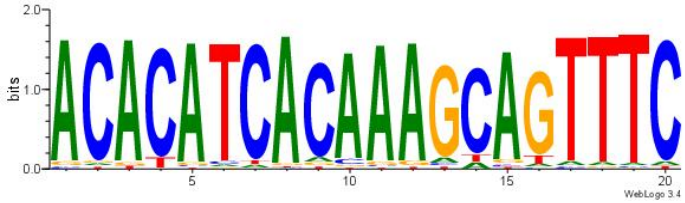

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

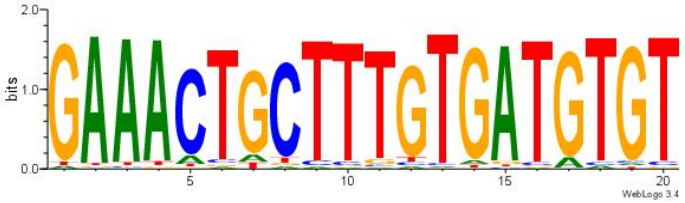

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 12
Similarity score: 0.0842835

Alignment:
AGGACTGAGGGTGCCYRGGG
---ACTTTGGGAGGC-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

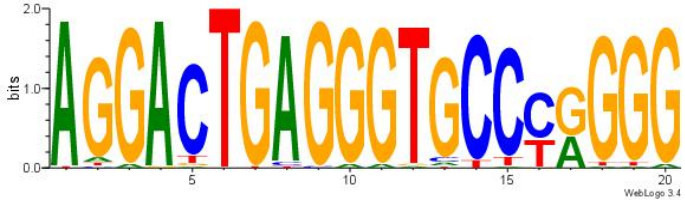

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

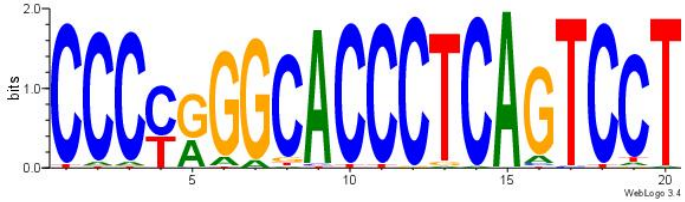

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0858275

Alignment:
AGTTGTAATTGGGAGACTT
-----ACTTTGGGAGGC--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

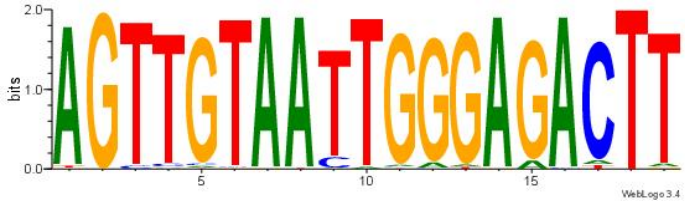

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

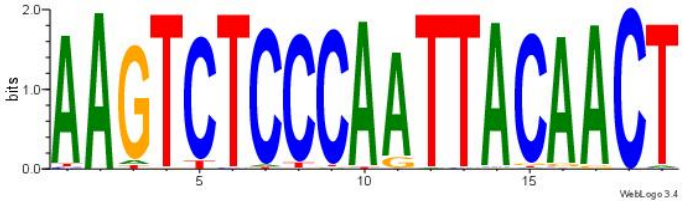

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0866457

Alignment:

```
CCACCACAGCTCAAGGAGGC
--------ACTTTGGGAGGC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

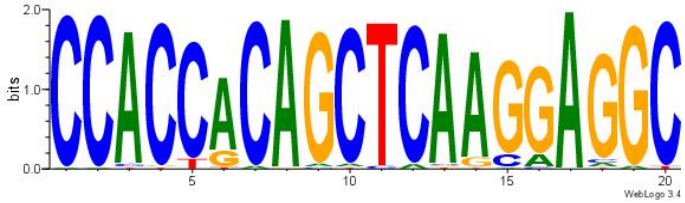

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

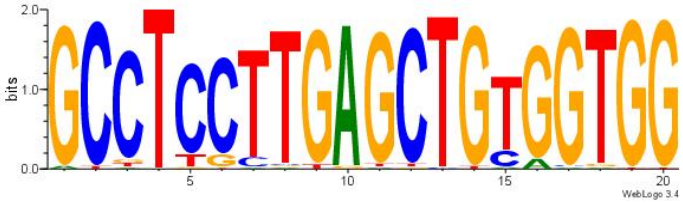

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0875659

Alignment:

```
CGTCGCTCACGCTGGGAGCT
--------ACTTTGGGAGGC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

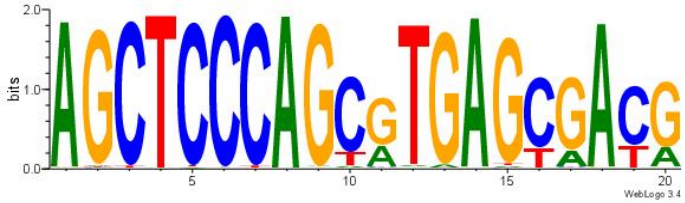

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

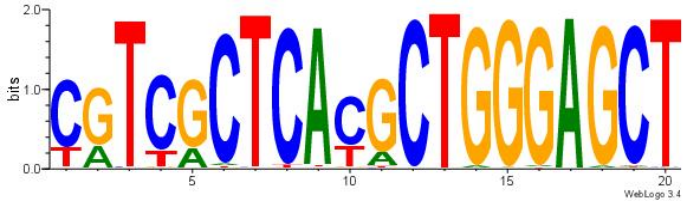

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 12
Similarity score: 0.0884781

Alignment:
TTMGTCCCAGAGGGGCACC
-GCCTCCCAAAGT------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

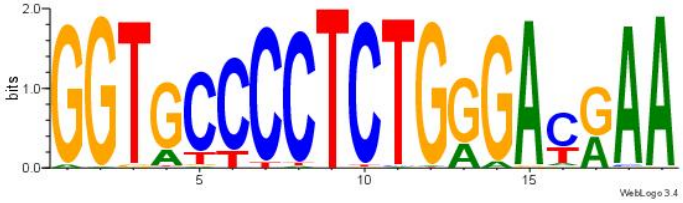

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

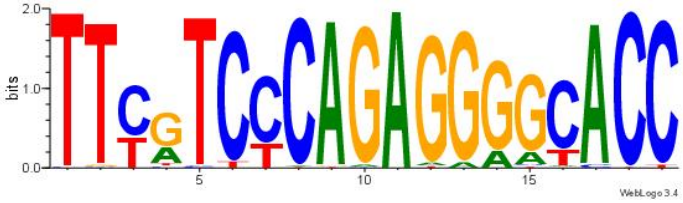

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0906046

Alignment:
AGATGCCAGCCAGAGCTCT
----GCCTCCCAAAGT---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

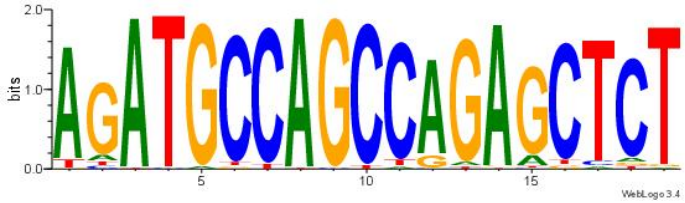

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

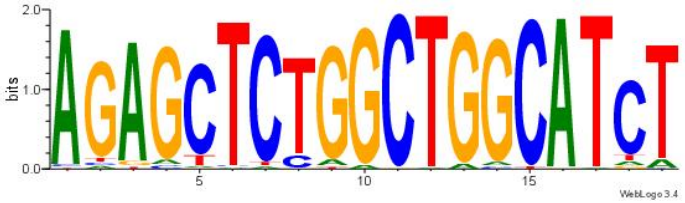

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0917075

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
------GCCTCCCAAAGT--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

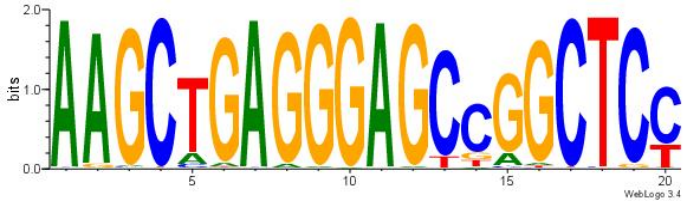

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

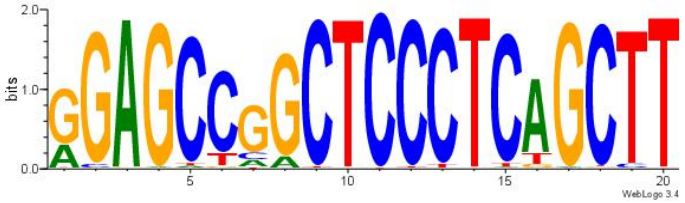

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0931065

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----GCCTCCCAAAGT--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

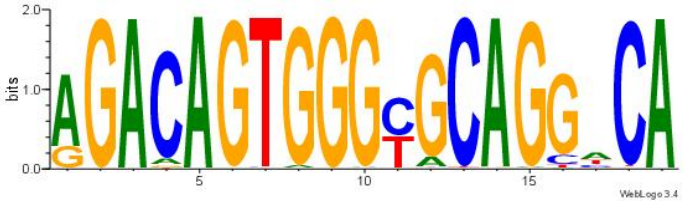

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

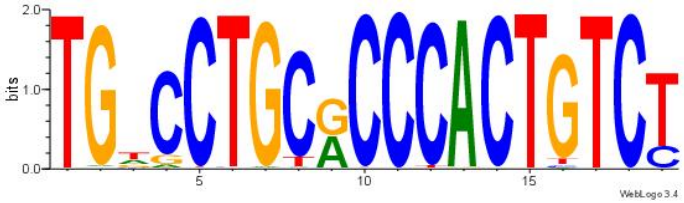

Dataset #:	1
Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 12
Similarity score: 0.0934924

Alignment:
AGCCTCCYGAGTA
-GCCTCCCAAAGT

Original motif Consensus sequence: AGCCTCCYGAGTA

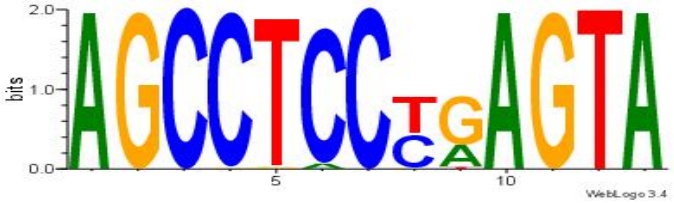

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

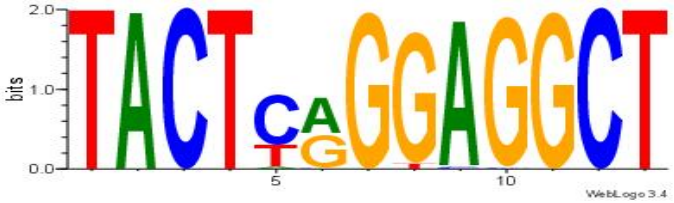

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0940287

Alignment:
ACCCYGTCTGGGAGGTG
----ACTTTGGGAGGC-

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

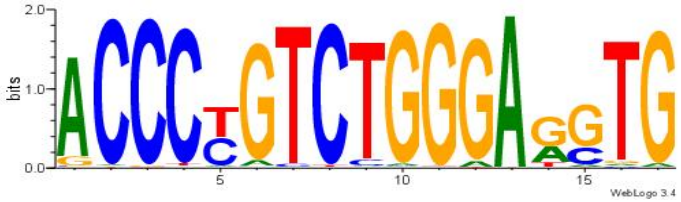

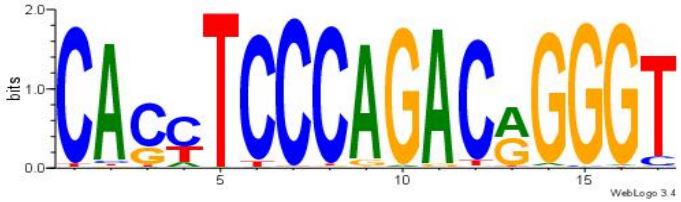

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0992808

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-------ACTTTGGGAGGC
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

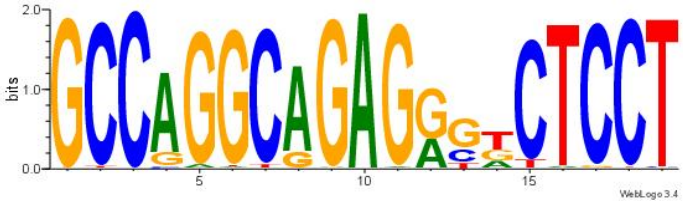

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

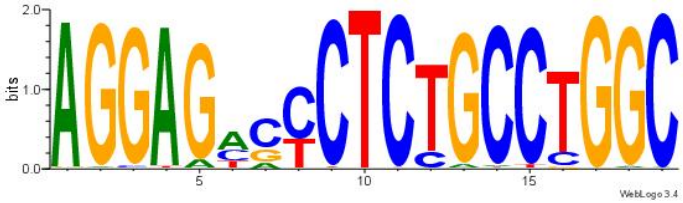

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0998652

Alignment:

```
CTGACTGGGAGACACCTCCC
-ACTTTGGGAGGC-------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

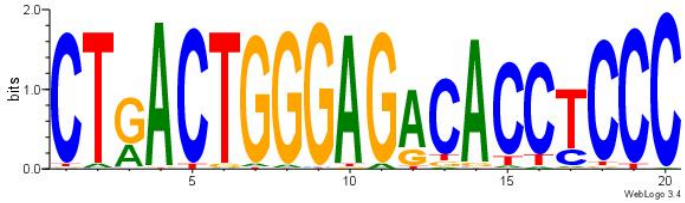

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

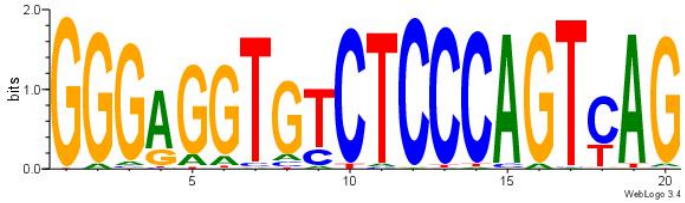

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12

Similarity score: 0.0998722

Alignment:
GCTCCACCCAGTTCGAGCTT
GCCTCCCAAAGT--------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

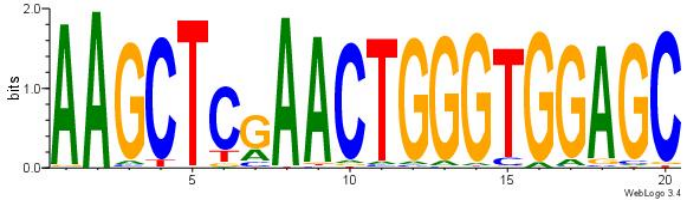

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

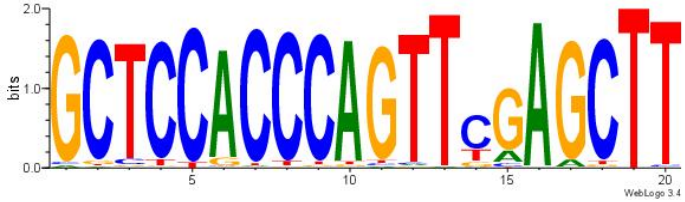

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.100845

Alignment:
TGCCCAGTCTGGAAAGTG
-----ACTTTGGGAGGC-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

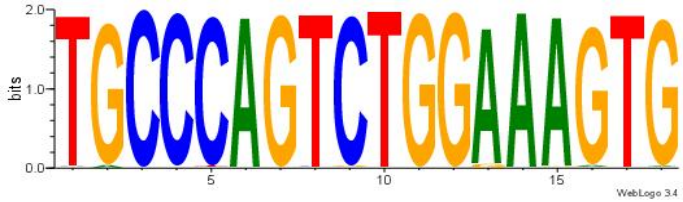

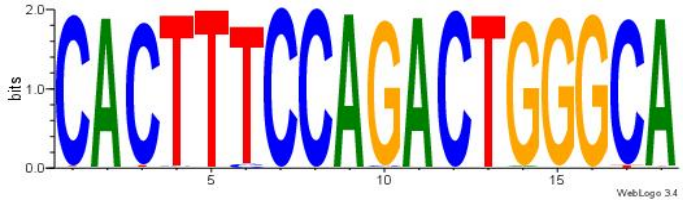

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.101194

Alignment:

```
CTGGCCCTCAATGGTTAAAC
---GCCTCCCAAAGT-----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

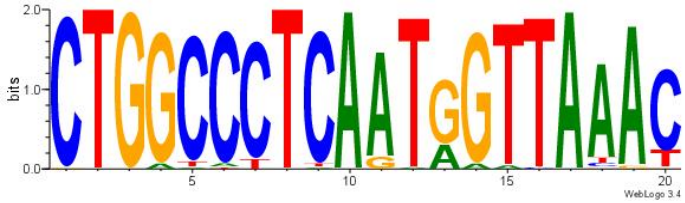

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

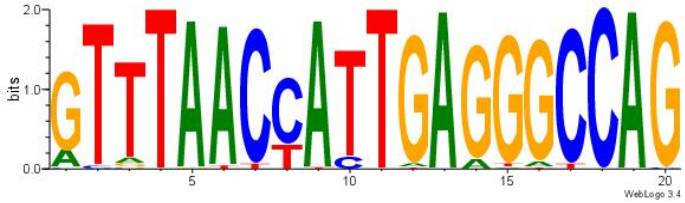

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.101277

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-ACTTTGGGAGGC-------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

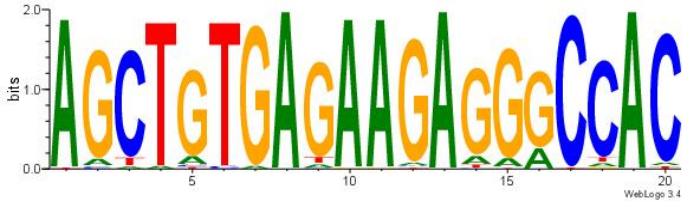

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

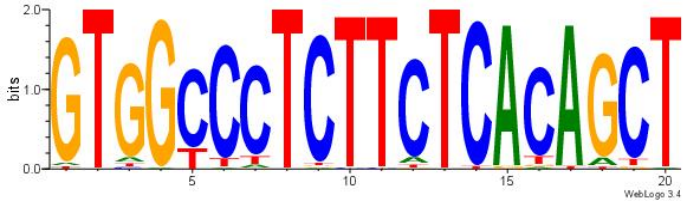

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.101451

Alignment:
TGCTCACACAAAGCCTGT
--GCCTCCCAAAGT----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

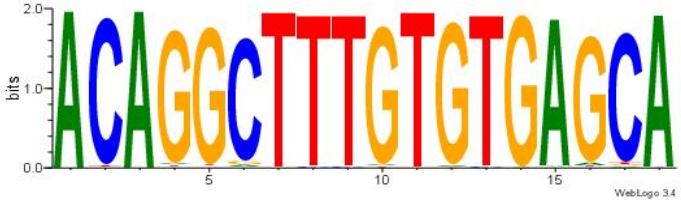

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

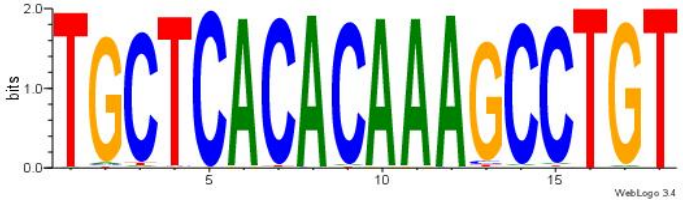

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.101545

Alignment:
ACATCCCAGACGATGGGCG
-------GCCTCCCAAAGT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

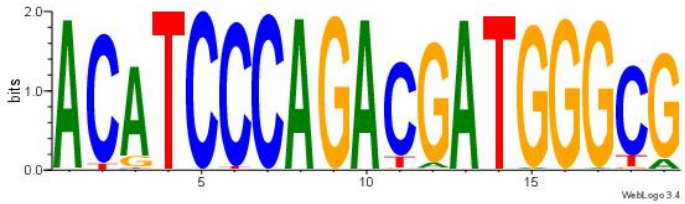

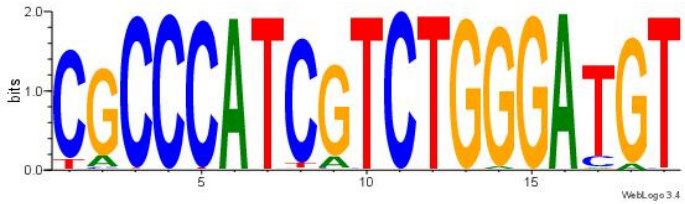

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.101593

Alignment:

```
ACAGAGTGAGACTCT
ACTTTGGGAGGC---
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

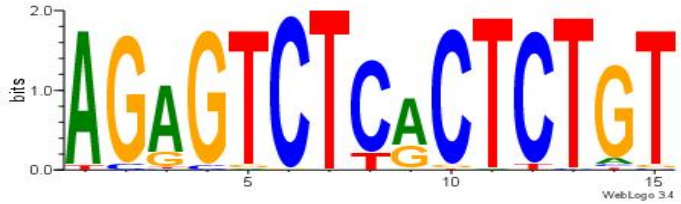

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

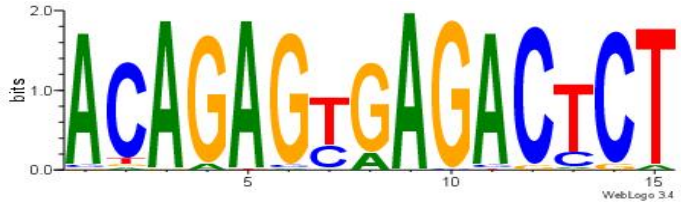

Dataset #:	1
Motif ID:	205

Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.10277

Alignment:

```
CATCTGGCAGCCCA
ACTTTGGGAGGC--
```

Original motif Consensus sequence: CATCTGGCAGCCCA

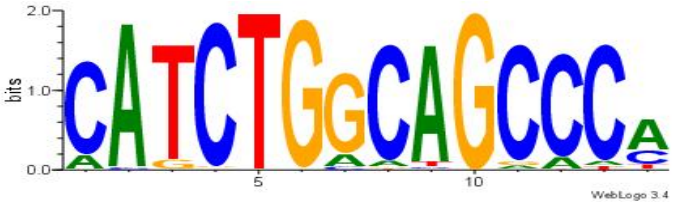

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

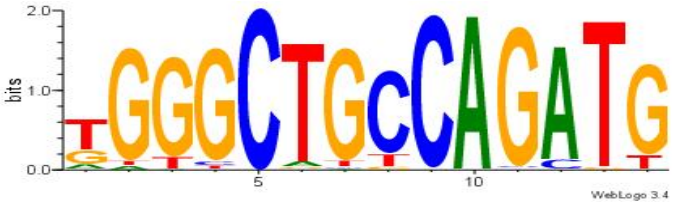

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.102821

Alignment:
TCACKMGGGAAGCGCAAG
----ACTTTGGGAGGC--

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

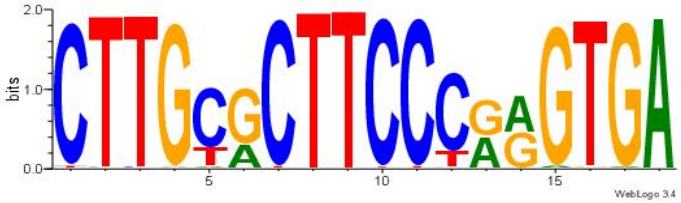

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

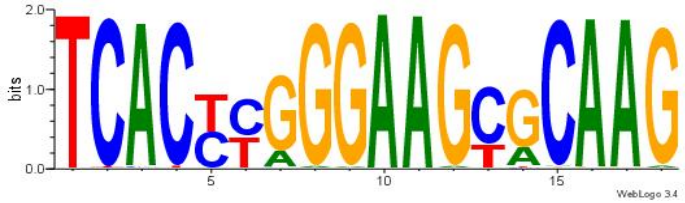

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.103755

Alignment:
GGCACTGCTGGGGGACCCAG
------ACTTTGGGAGGC--

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

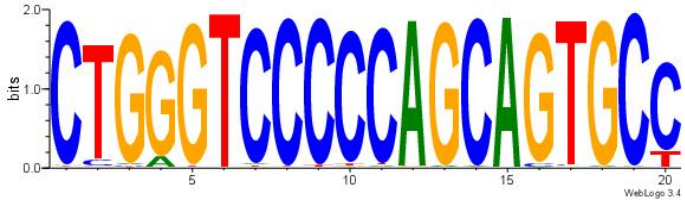

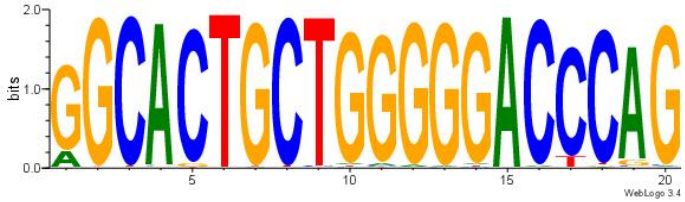

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.104363

Alignment:

```
CTCCTGCCTCAGCY
-GCCTCCCAAAGT-
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

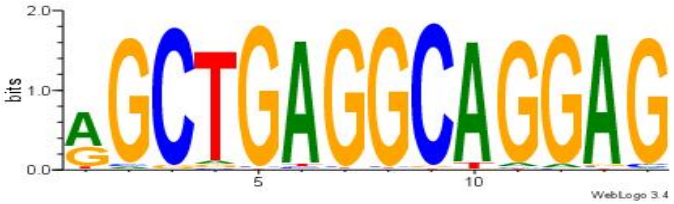

Dataset #:	1
Motif ID:	292

Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.104532

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-----ACTTTGGGAGGC---
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

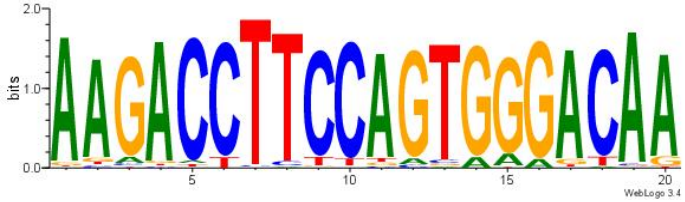

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

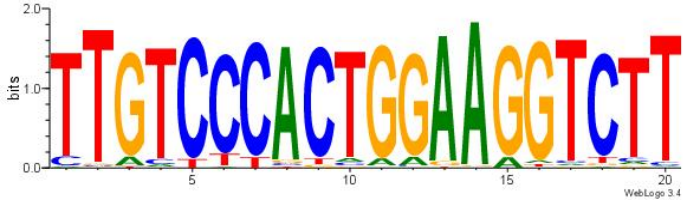

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.104675

Alignment:
TCCTATGAGAATCTAATG
-ACTTTGGGAGGC-----

Original motif Consensus sequence: CATTAGATTCTCATAGGA

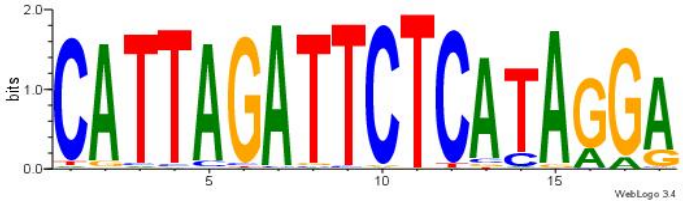

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

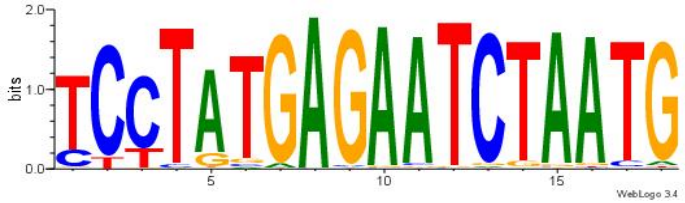

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.104896

Alignment:
GACTTCAAGAATGAAGCCG
GCCTCCCAAAGT-------

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

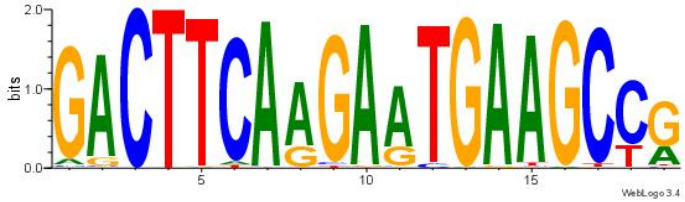

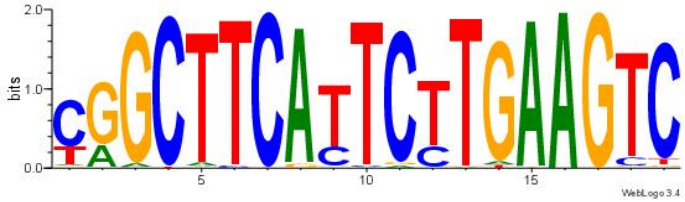

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.104912

Alignment:

```
CAAGTTGACACATAAAATTA
------GCCTCCCAAAGT--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

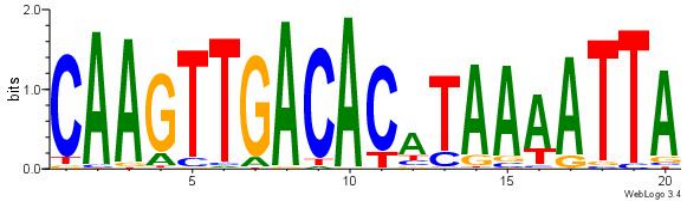

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

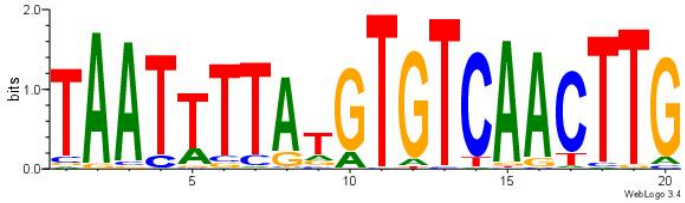

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.105761

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--ACTTTGGGAGGC------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

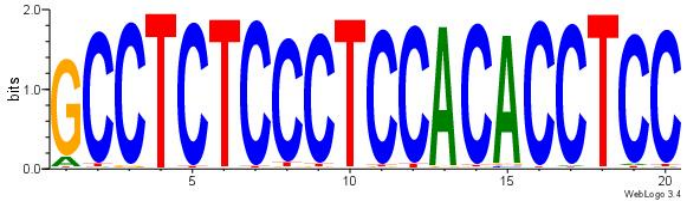

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

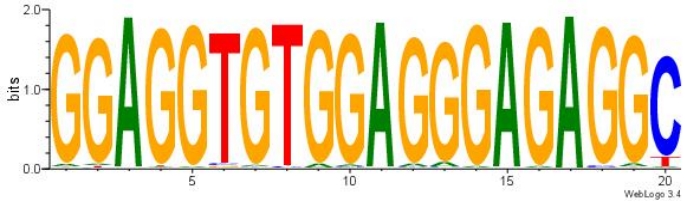

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.106548

Alignment:
GGCAATGCCTCGCCCTGCTT
------GCCTCCCAAAGT--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

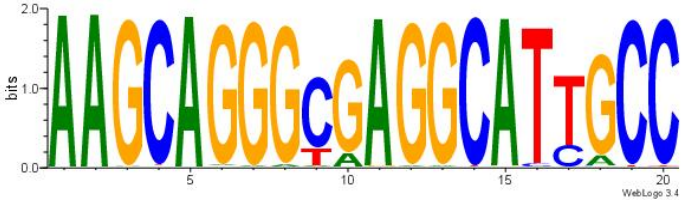

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

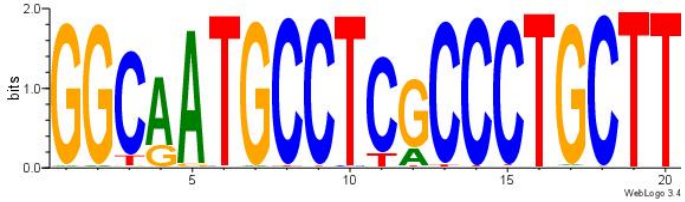

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.106563

Alignment:
ATACAATGGGGGTACAGRC
--ACTTTGGGAGGC-----

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

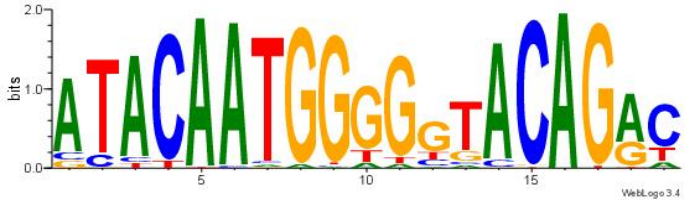

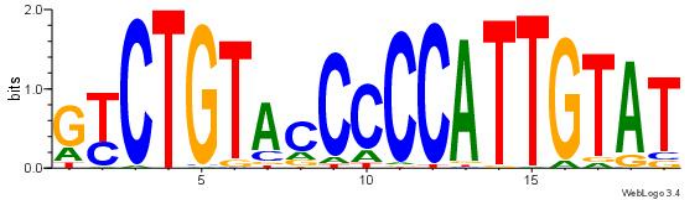

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.106676

Alignment:

```
GACATGAGCTGGCGCTTG
-ACTTTGGGAGGC-----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

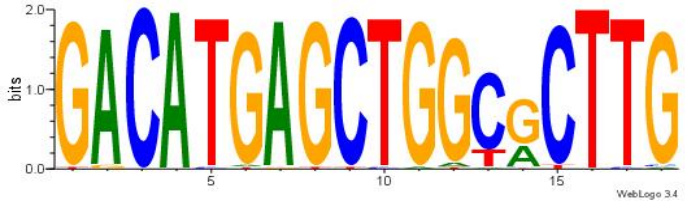

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

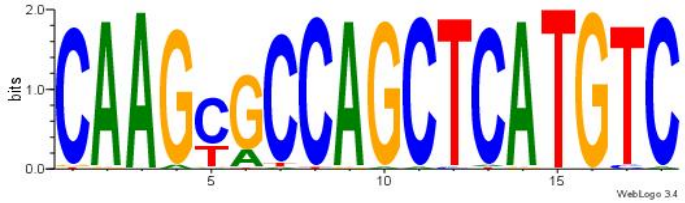

Dataset #: 1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.107185

Alignment:

```
CACTAGGGAGTGCC
-ACTTTGGGAGGC-
```

Original motif Consensus sequence: CACTAGGGAGTGCC

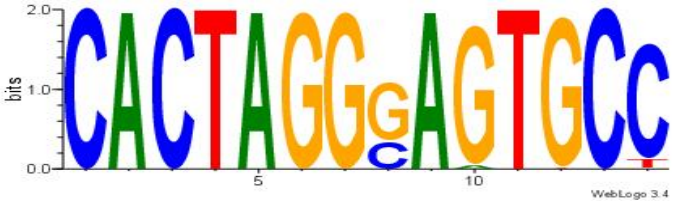

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

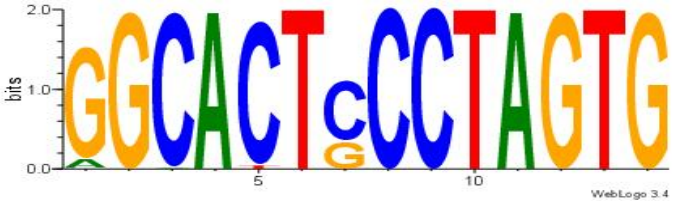

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.107454

Alignment:
CCTAGATTTCAGARGATGT
----ACTTTGGGAGGC---

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

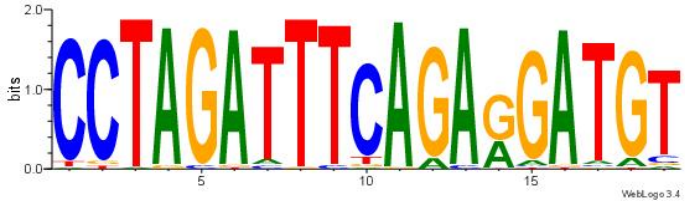

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

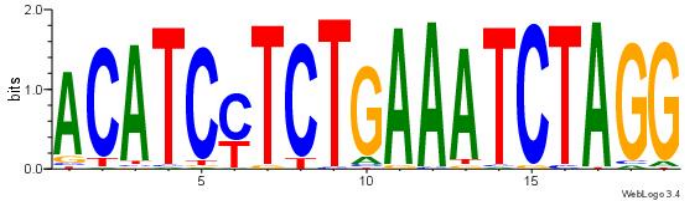

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107657

Alignment:
CTTTCTGGGCTGGCCAAGG
-------GCCTCCCAAAGT

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

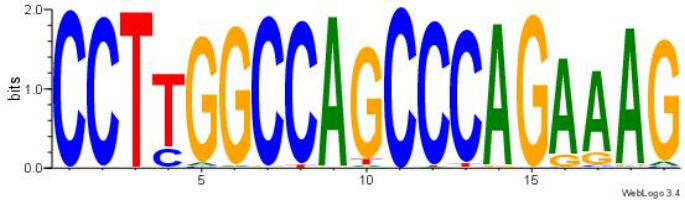

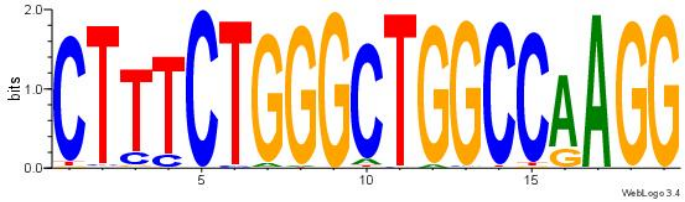

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.108445

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-GCCTCCCAAAGT-------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

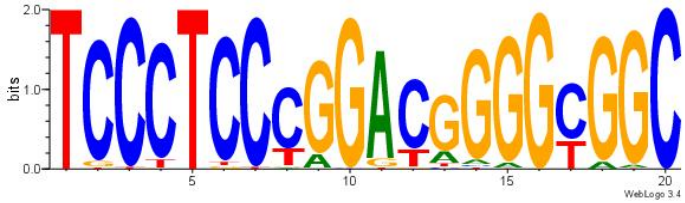

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

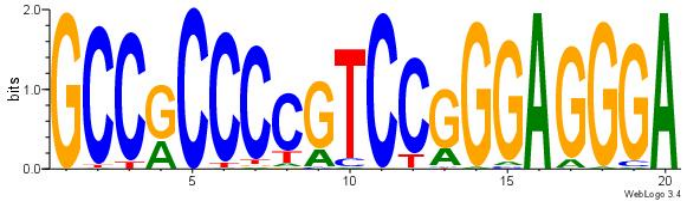

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.109131

Alignment:

```
GTKTMTATMTACCACATTTT
------GCCTCCCAAAGT--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

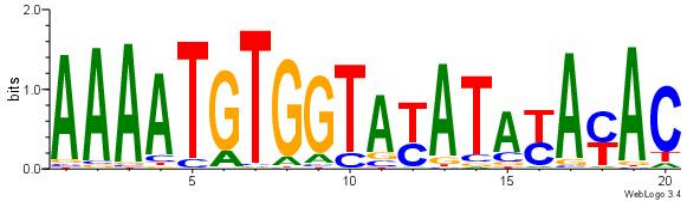

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

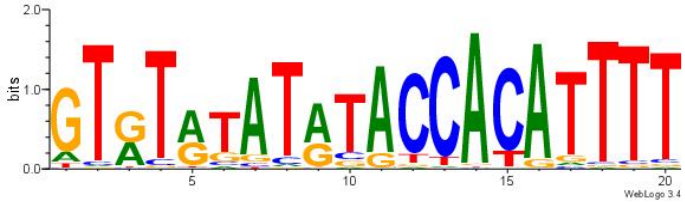

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.109506

Alignment:
AATCAACCCTGGYRATCAAT
-----ACTTTGGGAGGC---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

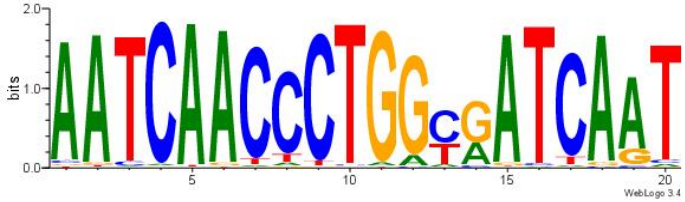

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

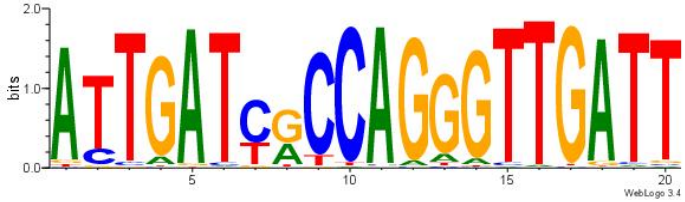

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.109508

Alignment:
CTGGGCRACAGAGYRAGACY
-------ACTTTGGGAGGC-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

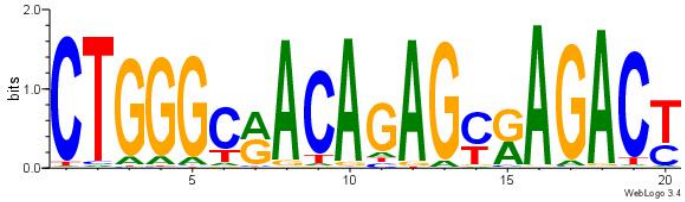

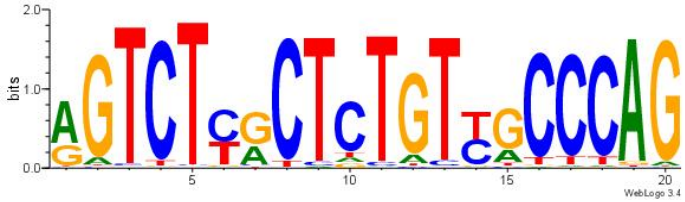

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.109886

Alignment:

```
AGCAGYTTGGAAACACT
---ACTTTGGGAGGC--
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

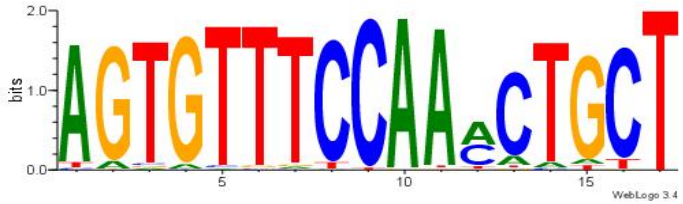

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

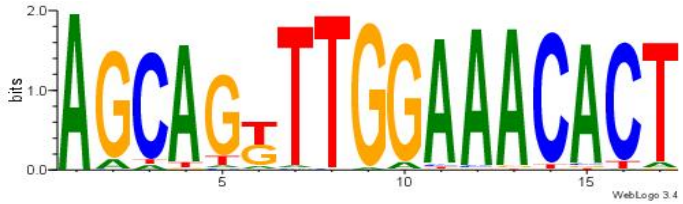

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.110321

Alignment:

```
GAAHCAACCKAAKTGTCCAT
--GCCTCCCAAAGT------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

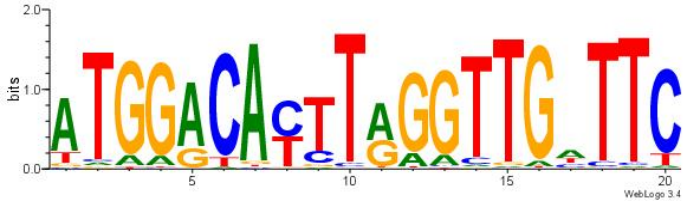

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

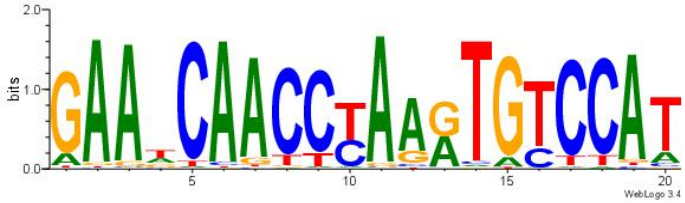

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.110503

Alignment:
CGCCCCGTCTGGGAAGTG
-ACTTTGGGAGGC-----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

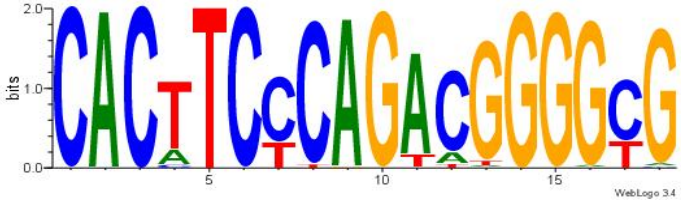

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

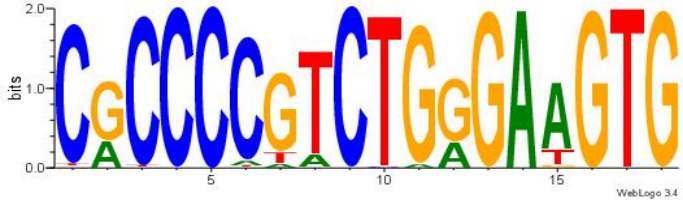

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.111948

Alignment:
CAAGCCTSKGCAATGGCAGG
---GCCTCCCAAAGT-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

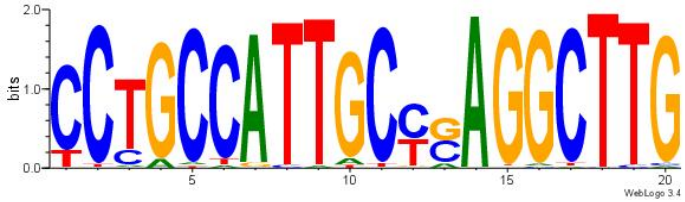

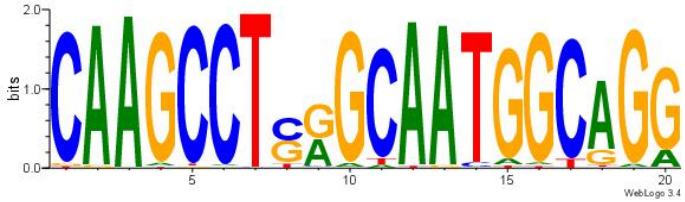

Dataset #: 1 **Motif ID: 41** **Motif name: Motif 41**

Original motif Consensus sequence: AAAYAAAAAAA

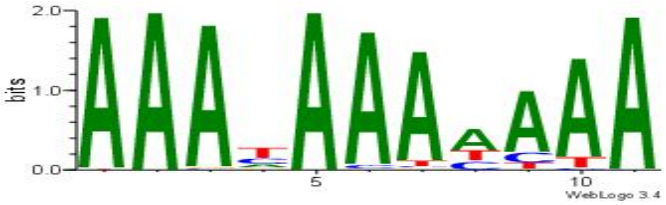

Reverse complement motif Consensus sequence: TTTTTTTMTTT

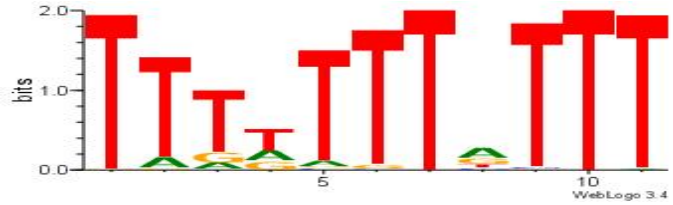

Best Matches for Motif ID 41 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0197219

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
---------AAAYAAAAAAA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

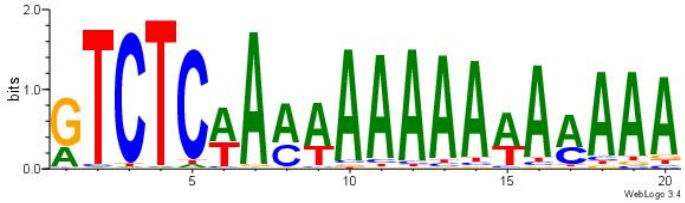

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

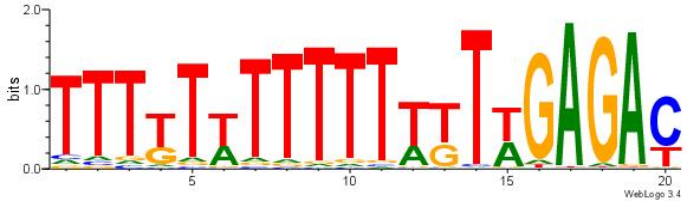

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0476983

Alignment:

```
TTTCTTTTCCTT
-TTTTTTTMTTT
```

Original motif Consensus sequence: AAGGAAAAGAAA

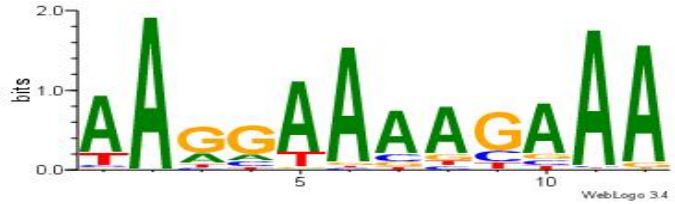

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

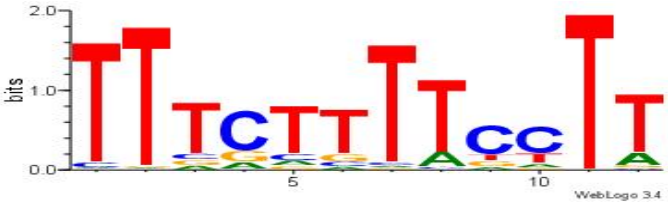

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.055347

Alignment:

```
AACAACAACAACAAMAA
-----AAAYAAAAAAA-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

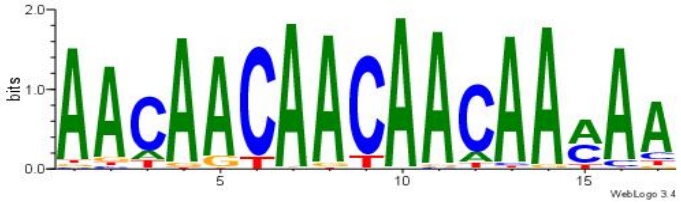

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

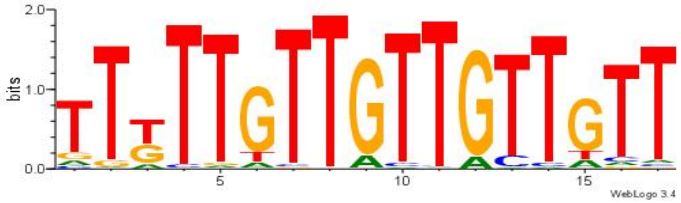

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9

Number of overlap: 11
Similarity score: 0.0567271

Alignment:
GGGATTGTAAATACACCAAT
--------AAAYAAAAAAA-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

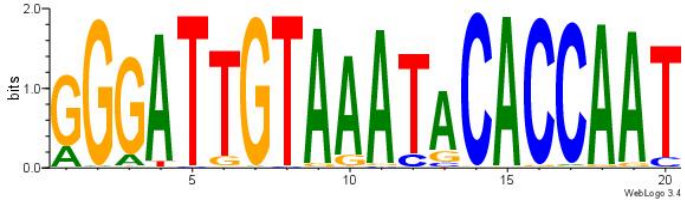

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0636192

Alignment:
GATACAAAATCAATGTR
-AAAYAAAAAAA-----

Original motif Consensus sequence: GATACAAAATCAATGTR

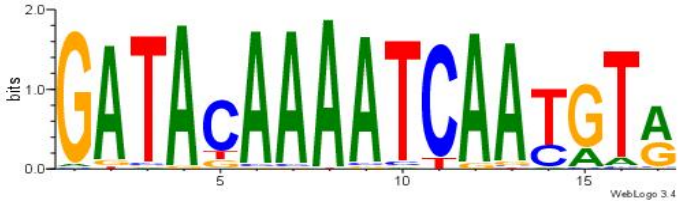

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

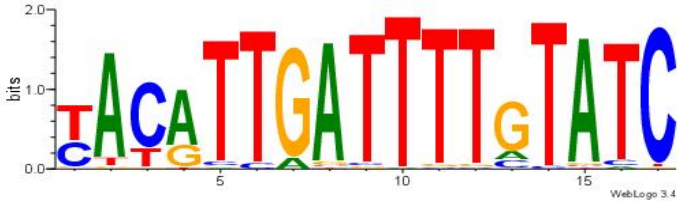

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0641764

Alignment:

```
CAGTCTGTGTCTTTTAATT
--------TTTTTTTMTTT
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

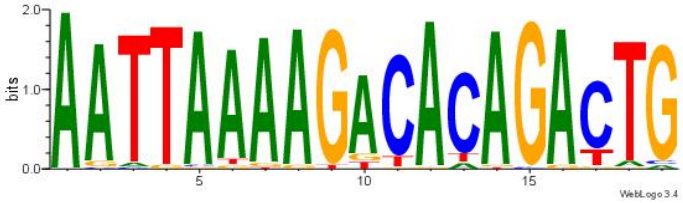

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

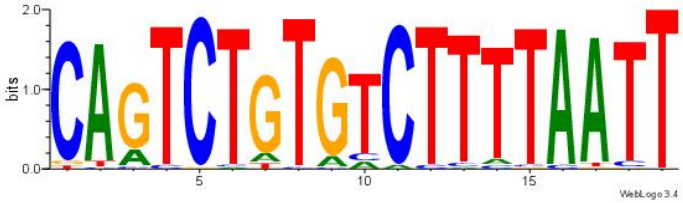

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0649387

Alignment:

```
AAAMAMMKMATGTTCTCACT
AAAYAAAAAAA---------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

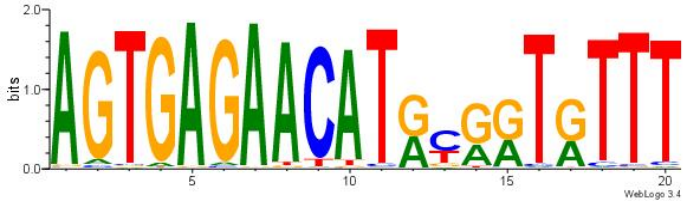

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

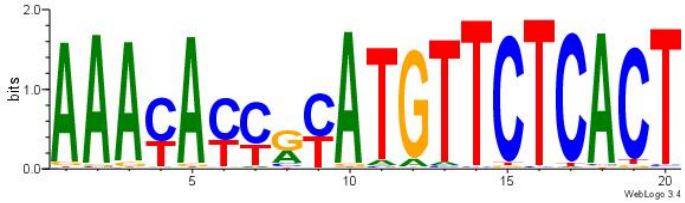

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0680828

Alignment:
AAGTGAAATAA
AAAYAAAAAAA

Original motif Consensus sequence: AAGTGAAATAA

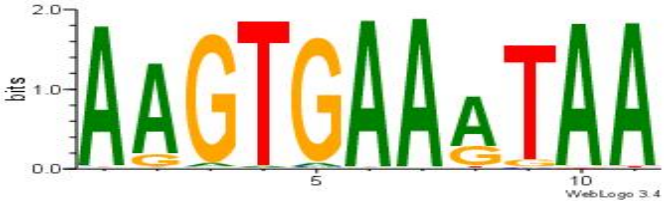

Reverse complement motif Consensus sequence: TTATTTCACTT

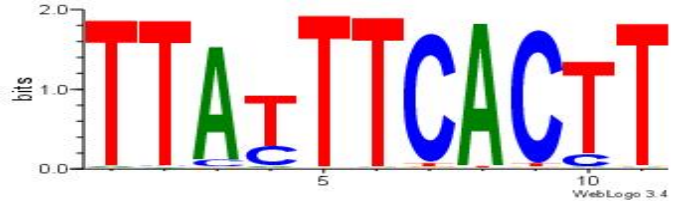

Dataset #: 1
Motif ID: 24
Motif name: Motif 24
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0685198

Alignment:
CKAGTCAAAGAAA
--AAAYAAAAAAA

Original motif Consensus sequence: CKAGTCAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

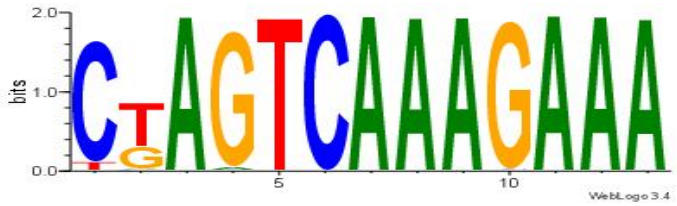

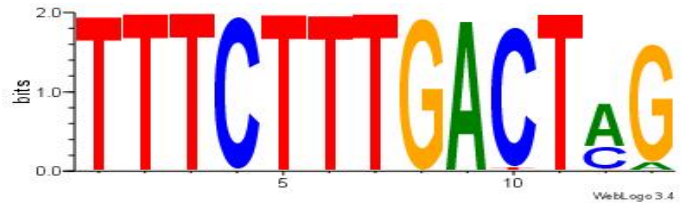

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0695003

Alignment:

```
TGTGTGTGTGTKTGTGTGT
--------TTTTTTTMTTT
```

Original motif Consensus sequence: ACACACAYACACACACACA

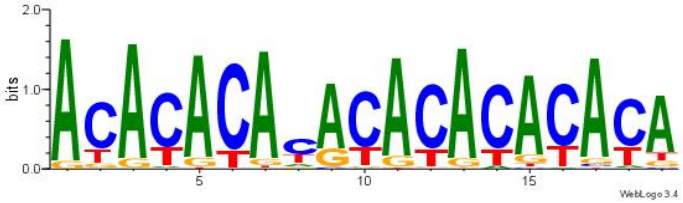

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

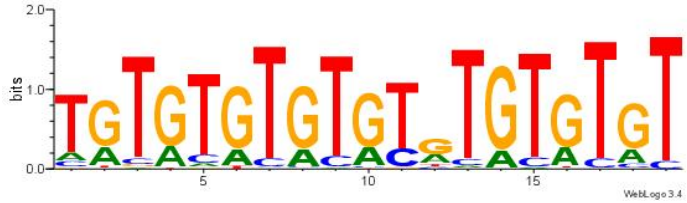

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0696509

Alignment:

```
ATGTAACCAAAYACCACCTG
----AAAYAAAAAAA-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

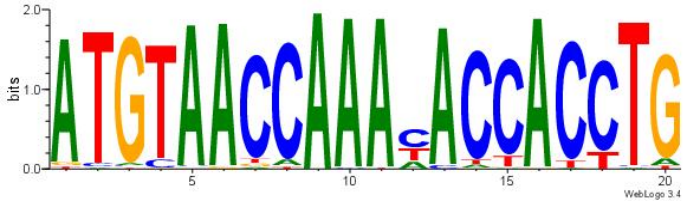

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

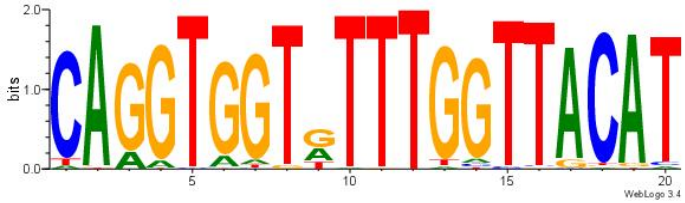

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.0703254

Alignment:
GCCAGTCACAAAARGACAMA
---------AAAYAAAAAAA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

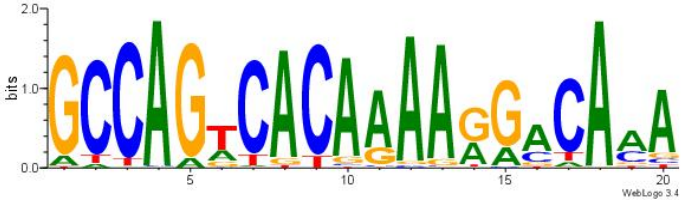

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

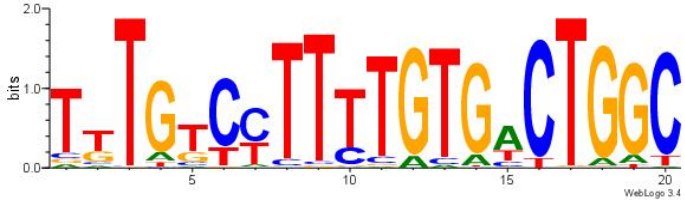

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.0716018

Alignment:
TAATTTTATGTGTCAACTTG
TTTTTTTMTTT---------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

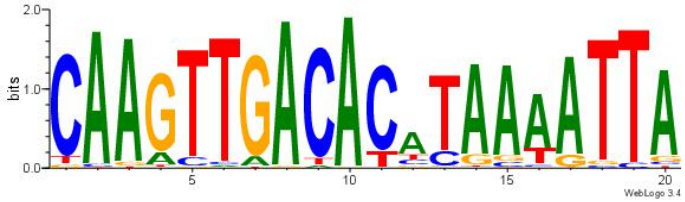

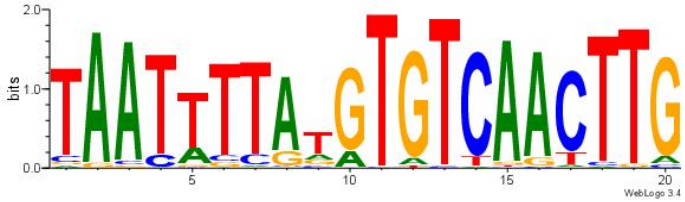

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0717997

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-AAAYAAAAAAA--------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

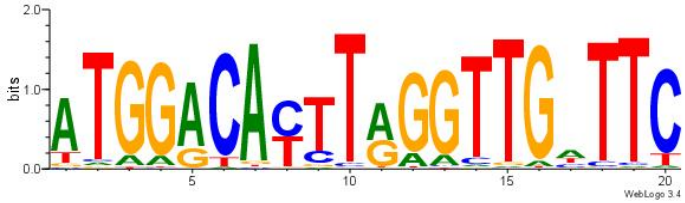

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

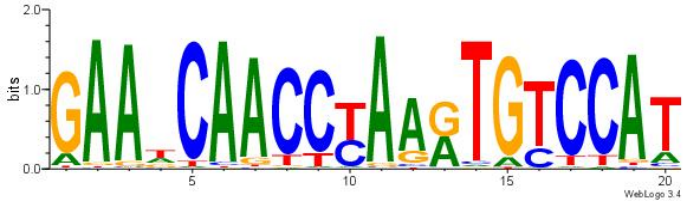

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0740961

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
---------TTTTTTTMTTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

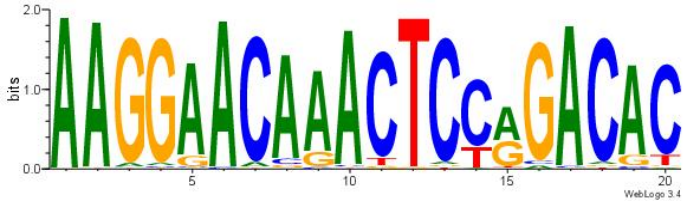

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

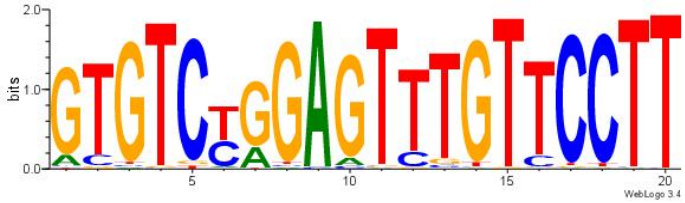

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0752322

Alignment:
CTTCGCTGACTCTCTTT
------TTTTTTTMTTT

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

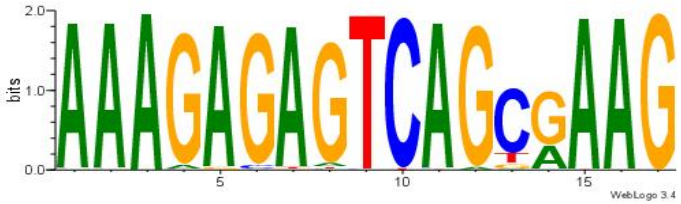

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

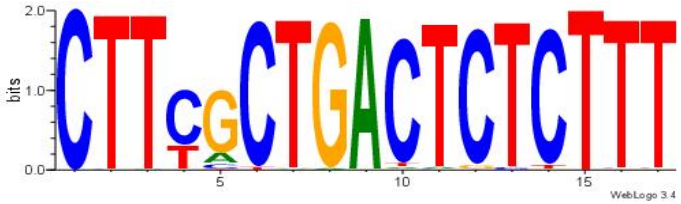

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0758895

Alignment:
ACCCAATWTGTAGTCTTTTA
-------TTTTTTTMTTT--

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

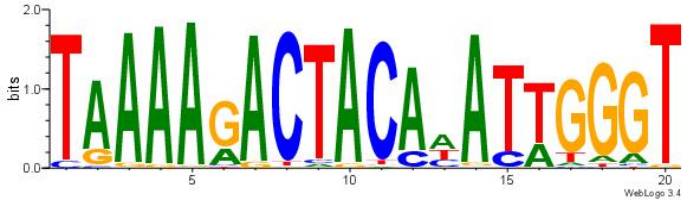

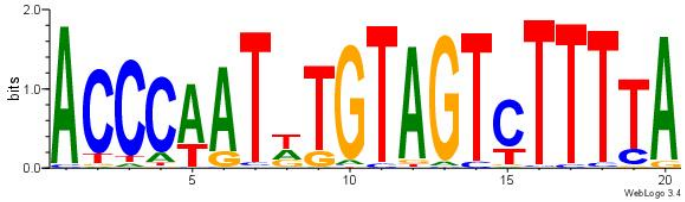

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0764079

Alignment:

```
GTTATTAATTGGCCTAATTT
TTTTTTTMTTT---------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

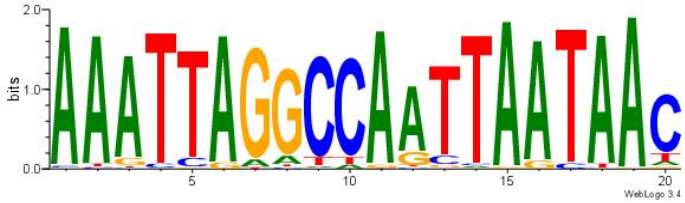

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0780833

Alignment:

```
GCAAAKGACATGATYTCATT
--AAAYAAAAAAA-------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

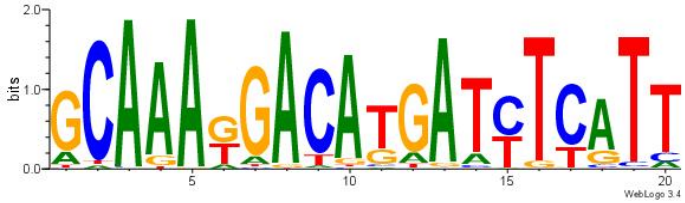

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

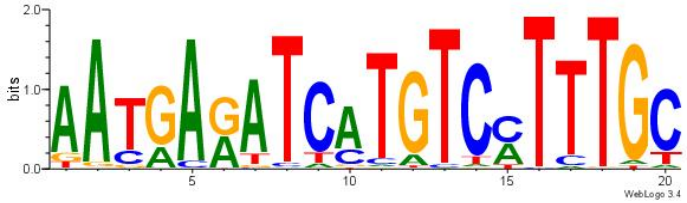

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0795444

Alignment:
TTTAACTCTGTGAG
TTTTTTTMTTT---

Original motif Consensus sequence: CTCACAGAGTTAAA

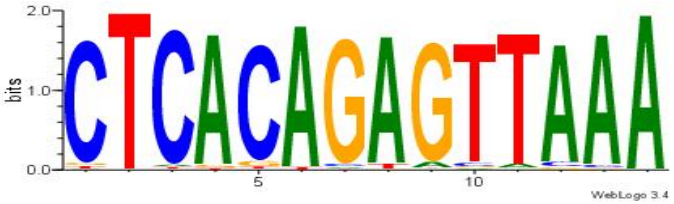

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

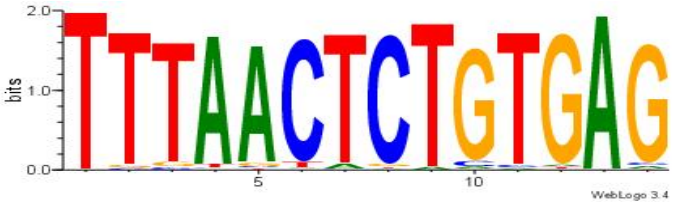

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0795681

Alignment:
GCCAATTTCTCCCATTTGGA
-----TTTTTTTMTTT----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

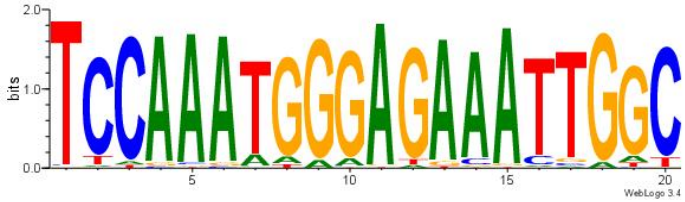

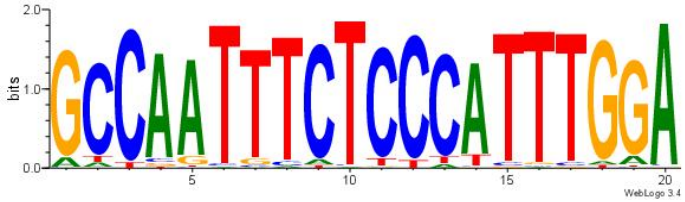

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0796078

Alignment:

```
TGGAGAACCTTTATGTCTAG
---------TTTTTTTMTTT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

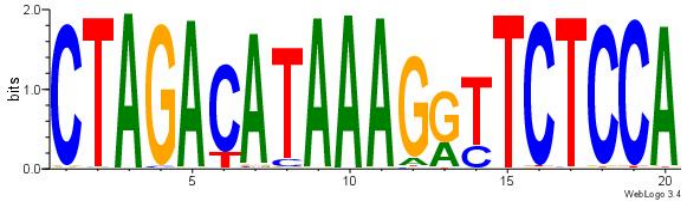

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

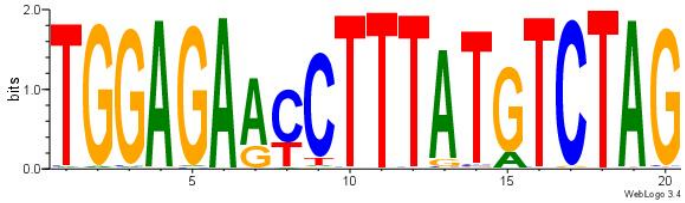

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0802417

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
TTTTTTTMTTT---------
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

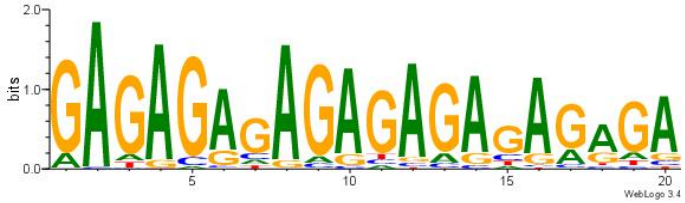

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

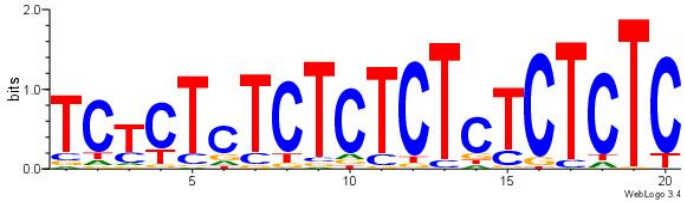

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0805872

Alignment:
TGAGKCAATTAAACCTCTT
--AAAYAAAAAAA------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

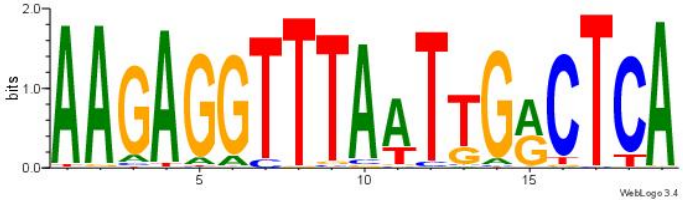

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

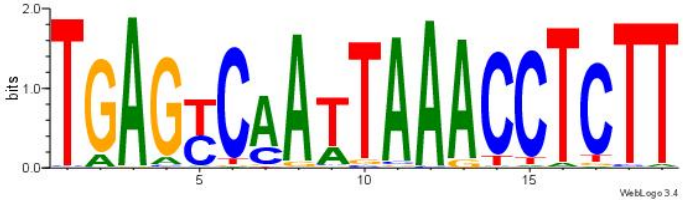

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0818572

Alignment:
ATCATTCTTATGCCTTTG
------TTTTTTTMTTT-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

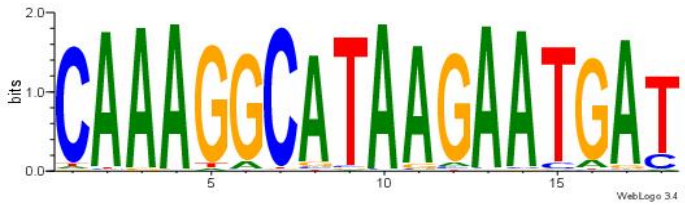

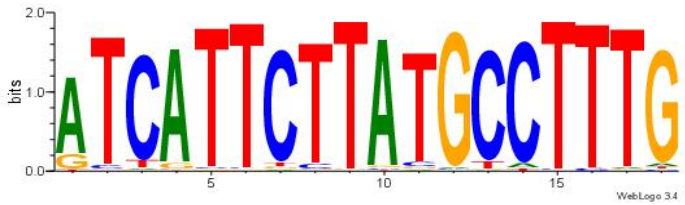

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0827652

Alignment:

```
TTTTATAGGATTTGGG
--TTTTTTTMTTT---
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

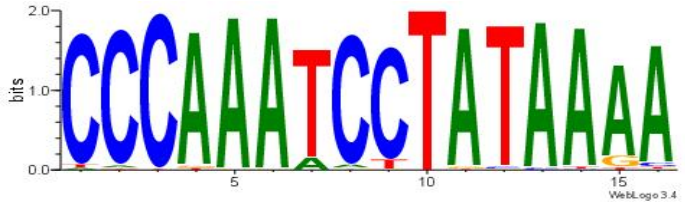

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

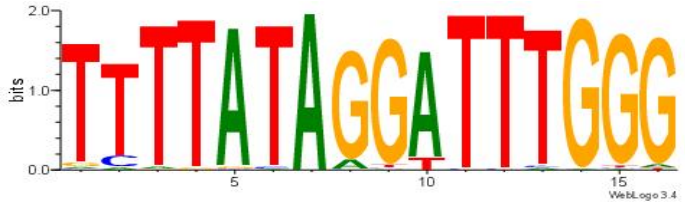

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0830193

Alignment:

```
ATAAAAACTTGCTGGTTTT
--------TTTTTTTMTTT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

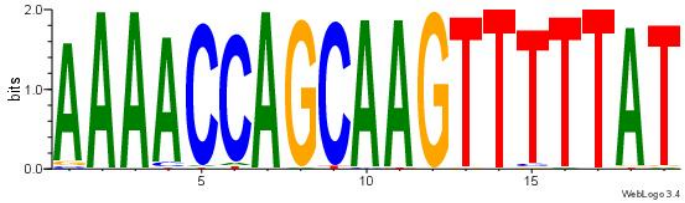

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

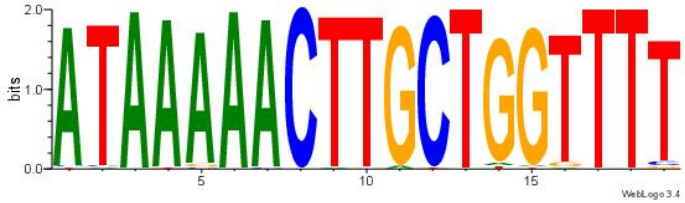

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0830736

Alignment:
MGTCTMKCTCTGTKGCCCAG
--TTTTTTTMTTT-------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

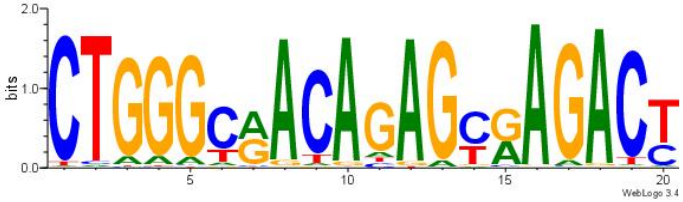

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

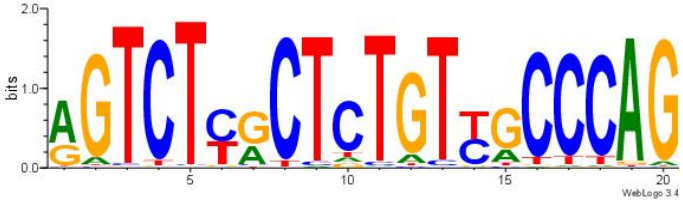

Dataset #: 1
Motif ID: 79
Motif name: Motif 79
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0832275

Alignment:
ATTCATTCATT
TTTTTTTMTTT

Original motif Consensus sequence: AATGAATGAAT

Reverse complement motif Consensus sequence: ATTCATTCATT

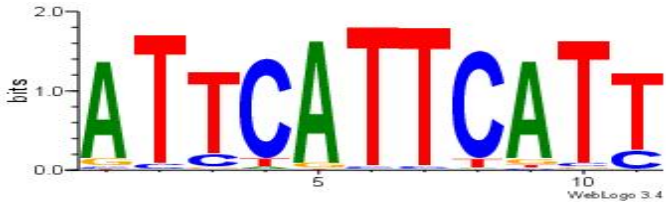

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0833234

Alignment:

```
AACAACASACACTGGGGCCT
AAAYAAAAAAA---------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

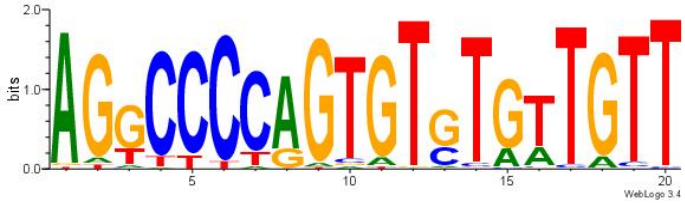

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

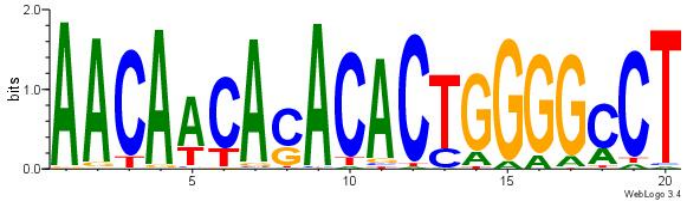

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0834243

Alignment:

```
TWTACCTATGTAACAAACCT
------AAAYAAAAAAA---
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

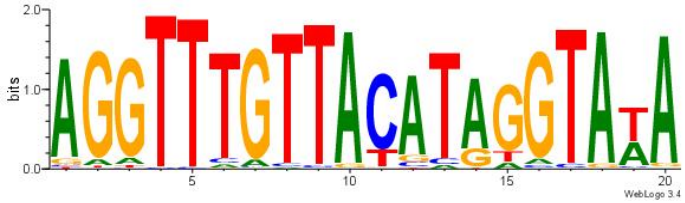

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

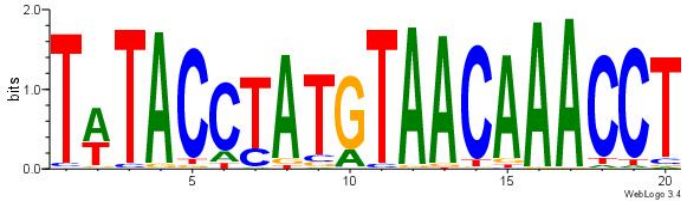

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0852696

Alignment:
AAATGGAATCAT
AAAYAAAAAAA-

Original motif Consensus sequence: AAATGGAATCAT

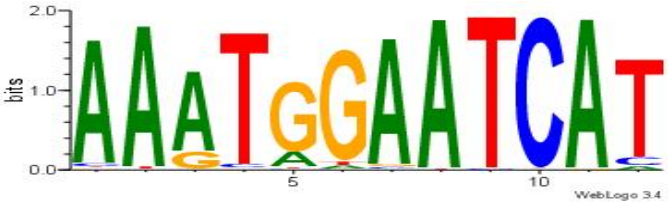

Reverse complement motif Consensus sequence: ATGATTCCATTT

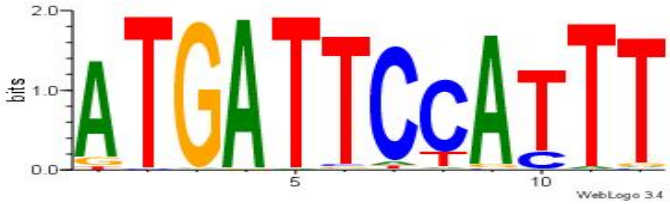

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0859301

Alignment:
ATAGGAATGCTTGTGATTTT
--------TTTTTTTMTTT-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

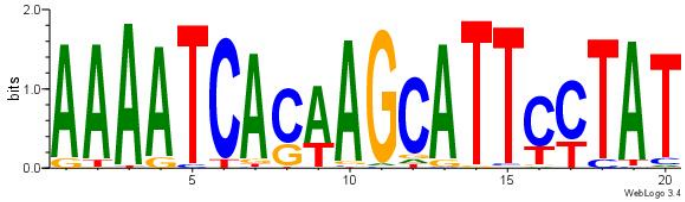

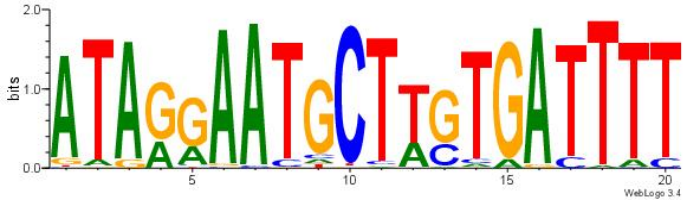

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0870026

Alignment:

```
GTKTMTATMTACCACATTTT
-TTTTTTTMTTT--------
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

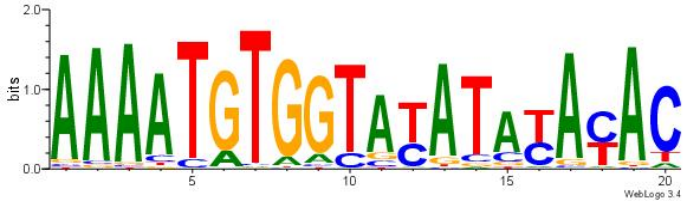

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

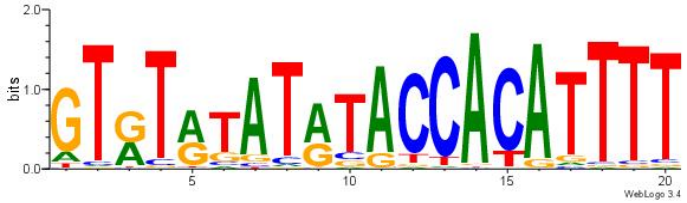

Dataset #:	1

Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0870612

Alignment:

```
CCAAACCATATCA
--AAAYAAAAAAA
```

Original motif Consensus sequence: CCAAACCATATCA

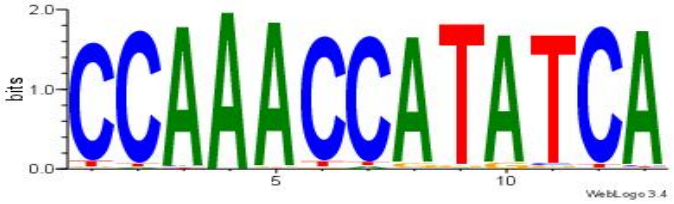

Reverse complement motif Consensus sequence: TGATATGGTTTGG

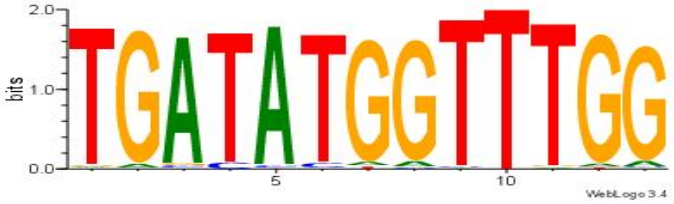

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0877718

Alignment:
GAAACTGCTTTGTGATGTGT
-------TTTTTTTMTTT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

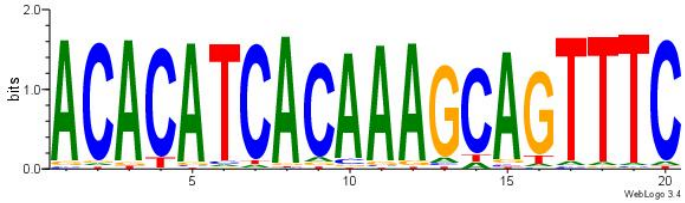

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

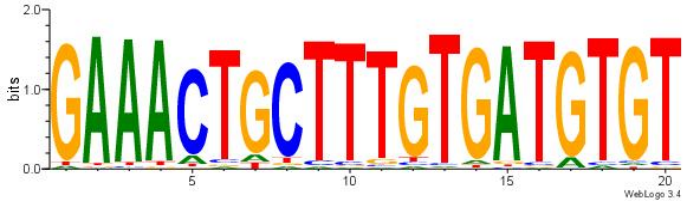

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0880281

Alignment:
CTCATTTAATCCTCACAAC
TTTTTTTMTTT--------

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

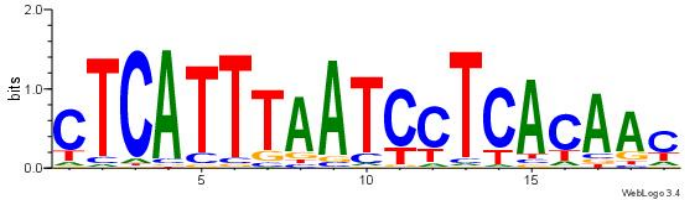

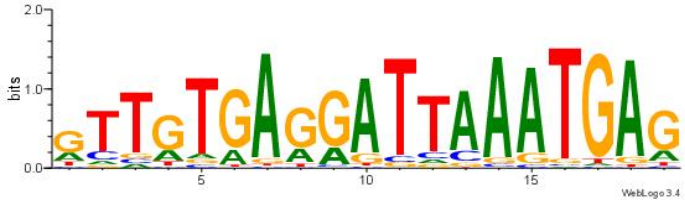

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0883562

Alignment:

```
GGATTTMKGACTTGCATGGG
---TTTTTTTMTTT------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

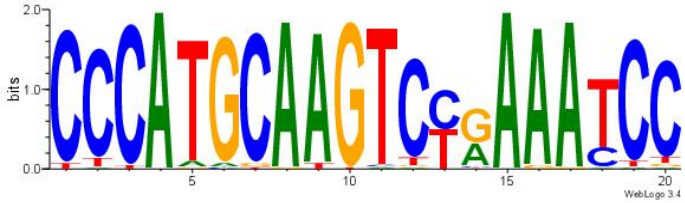

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

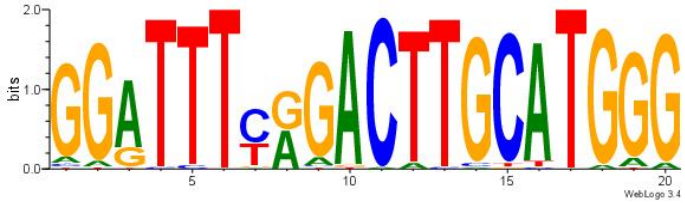

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0884677

Alignment:

```
AGAGCCAAATCATGARTGAA
------AAAYAAAAAAA---
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

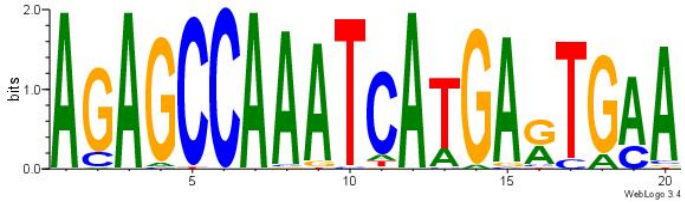

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

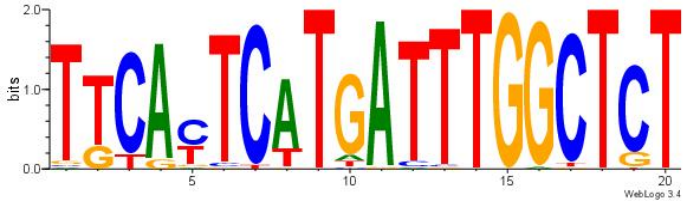

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0890332

Alignment:
CCCTACTGTTCTCY
---TTTTTTTMTTT

Original motif Consensus sequence: CCCTACTGTTCTCY

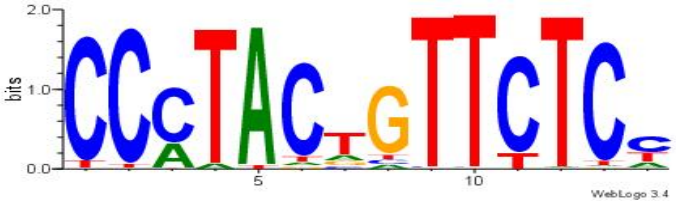

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0896396

Alignment:
AGGCTGTTTTACAGTTAAC
-----TTTTTTTMTTT---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

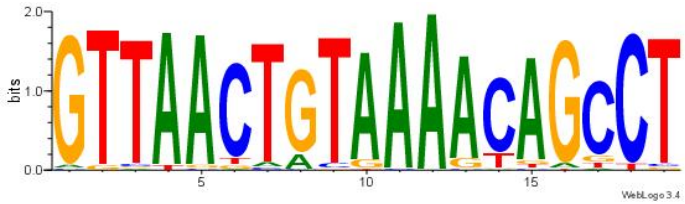

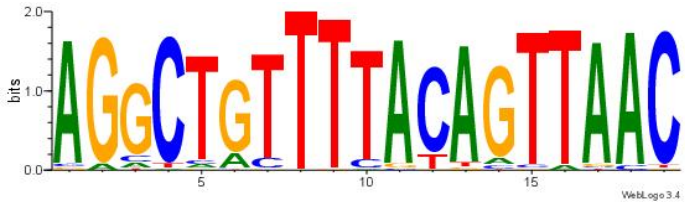

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0907165

Alignment:

```
AAYRGACTAATACA
---AAAYAAAAAAA
```

Original motif Consensus sequence: AAYRGACTAATACA

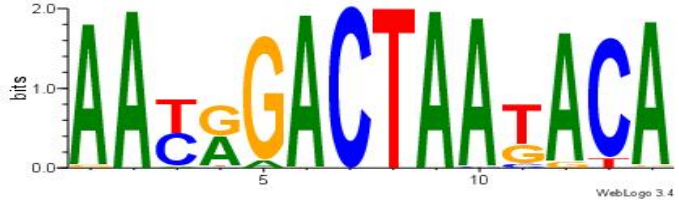

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

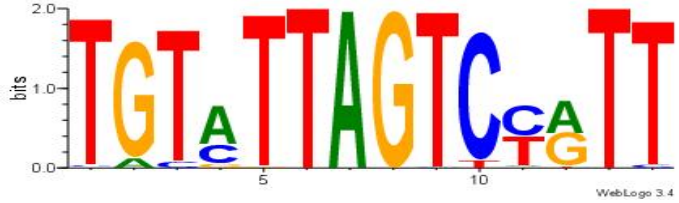

Dataset #:	1
Motif ID:	160

Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0911169

Alignment:

```
AAATTACCCAGTCTCAGGTA
AAAYAAAAAAA---------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

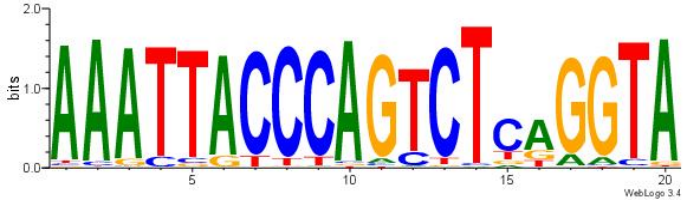

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

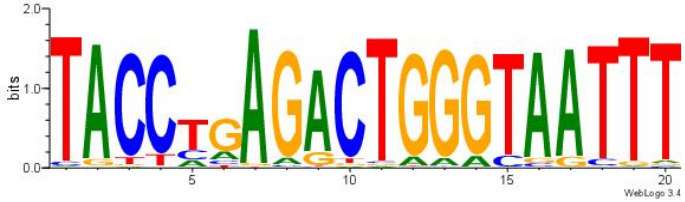

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0912024

Alignment:
CTCAGGAATGGAAAACC
-----AAAYAAAAAAA-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

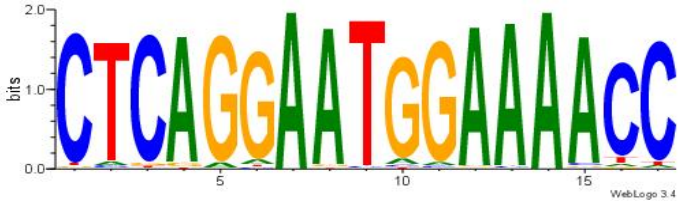

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

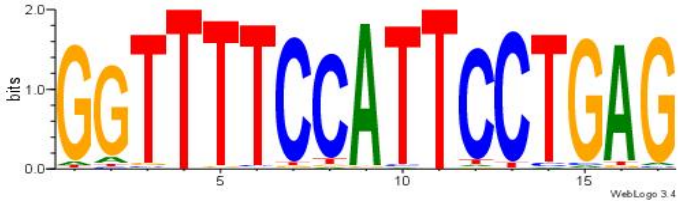

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0912122

Alignment:
GAGCTTTAAGATTT
---TTTTTTTMTTT

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

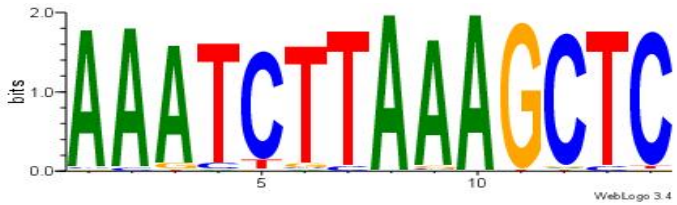

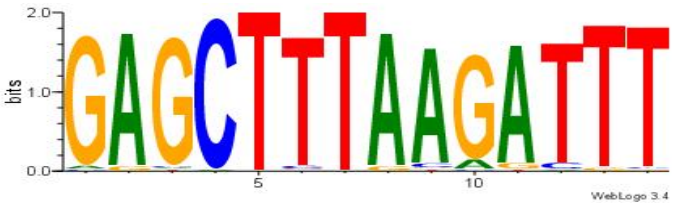

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0920717

Alignment:

```
CGGCTTCATTCTTGAAGTC
---TTTTTTTMTTT-----
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

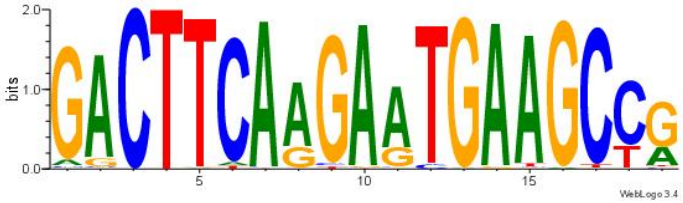

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

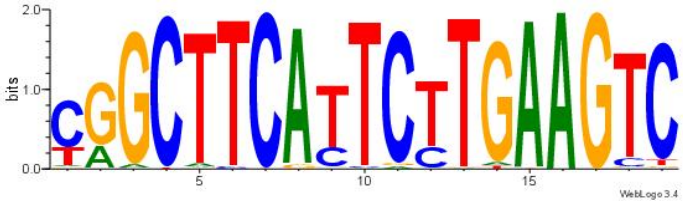

Dataset #: 1

Motif ID:	237
Motif name:	Motif 237
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0921227

Alignment:

```
TAGCCAAGGRAA
-AAAYAAAAAAA
```

Original motif Consensus sequence: TAGCCAAGGRAA

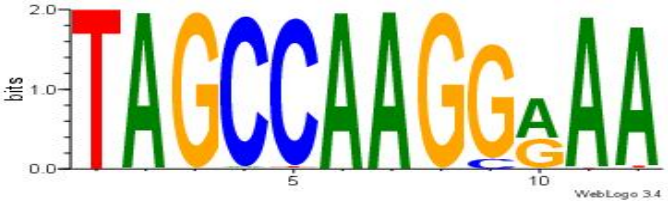

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

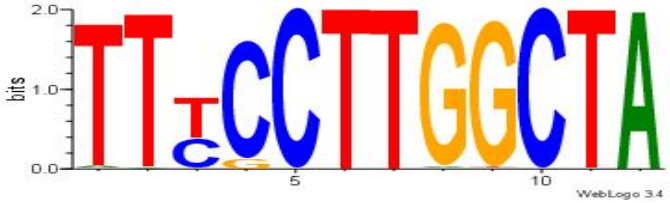

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0924317

Alignment:
GCCGTTTKTTAAGCCCGTY
----TTTTTTTMTTT----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

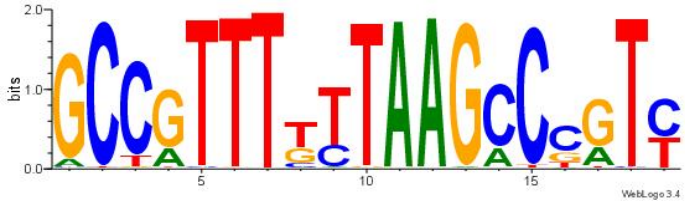

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

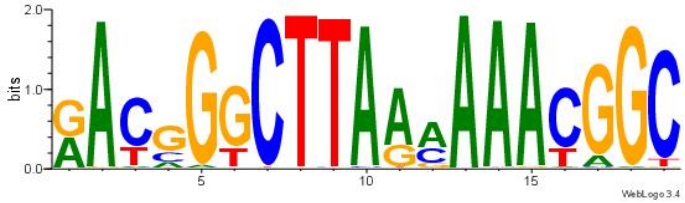

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0925923

Alignment:
AGCTAGAYACAGAGTGC
AAAYAAAAAAA------

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence:
GCACTCTGTMTCTAGCT

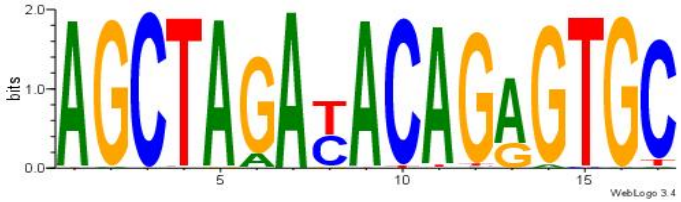

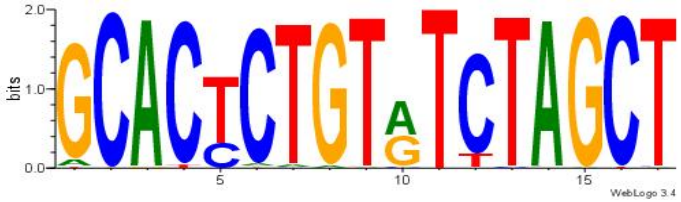

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0927603

Alignment:

```
CTGGCCCTCAATGGTTAAAC
--------AAAYAAAAAAA-
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

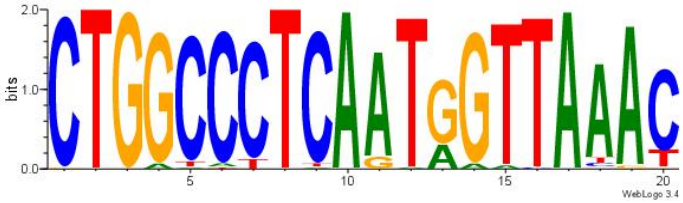

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

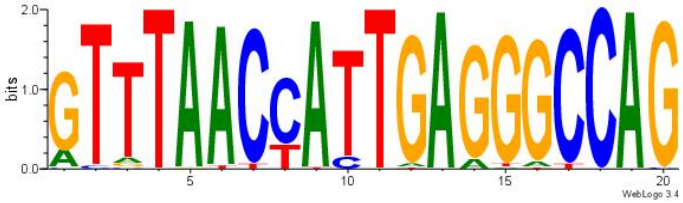

Dataset #: 1 Motif ID: 42 Motif name: Motif 42

Original motif Consensus sequence: CTCTGCCCGGCCGC

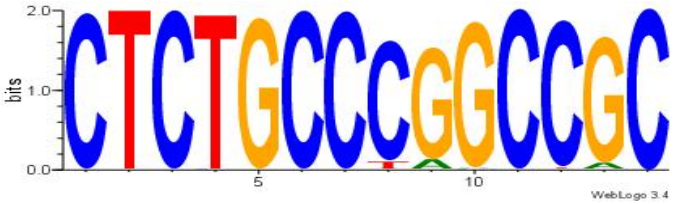

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

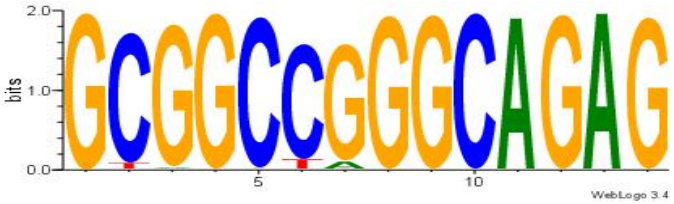

Best Matches for Motif ID 42 (Highest to Lowest)

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0584472

Alignment:

```
GGGTGCAGGMGGGCTGAGT
----GCGGCCGGGCAGAG-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

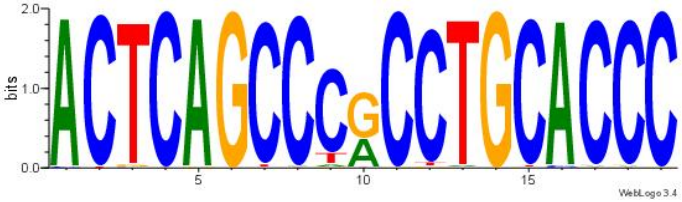

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

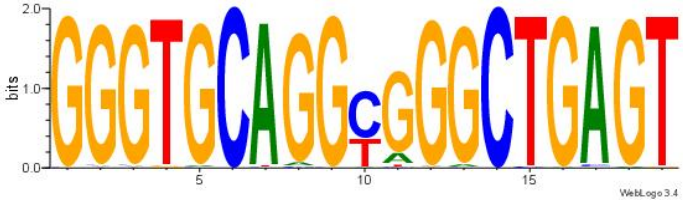

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0775689

Alignment:

```
AGAGCTCTGGCTGGCATCT
----CTCTGCCCGGCCGC-
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

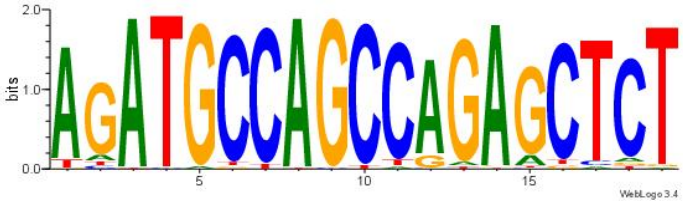

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

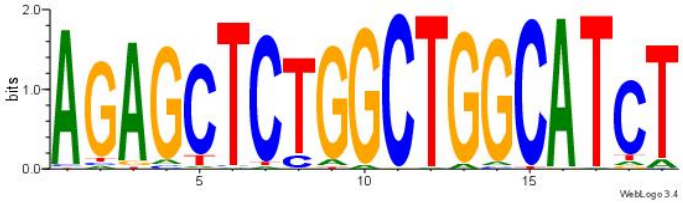

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0841912

Alignment:
CGCCCGGCCAGCCGC
-CTCTGCCCGGCCGC

Original motif Consensus sequence: CGCCCGGCCAGCCGC

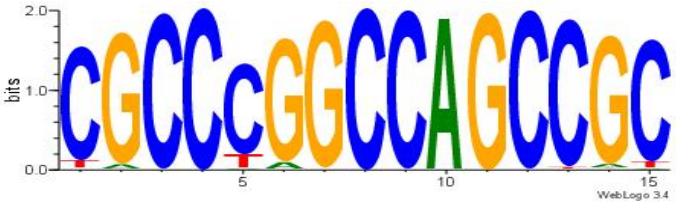

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

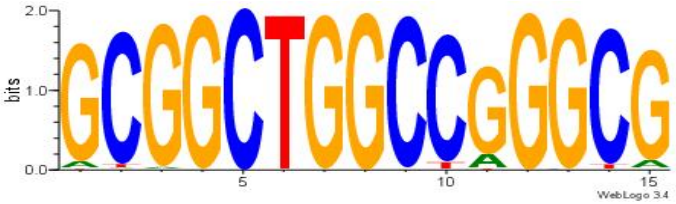

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0856029

Alignment:
GGTGGAGCTGCCTGCCAGTC
------GCGGCCGGGCAGAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

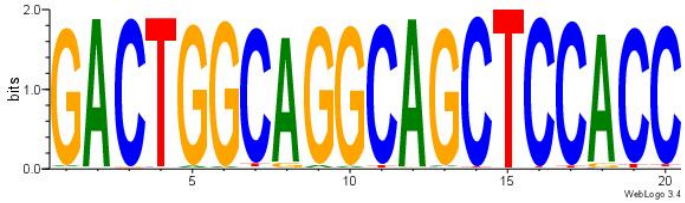

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

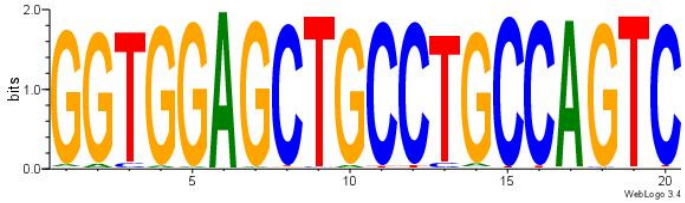

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0882618

Alignment:

```
GCTGGAGTGCAGTG
GCGGCCGGGCAGAG
```

Original motif Consensus sequence: CACTGCACTCCAGC

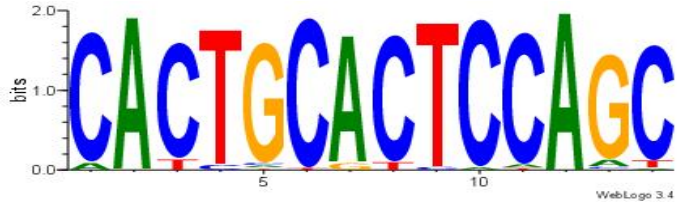

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

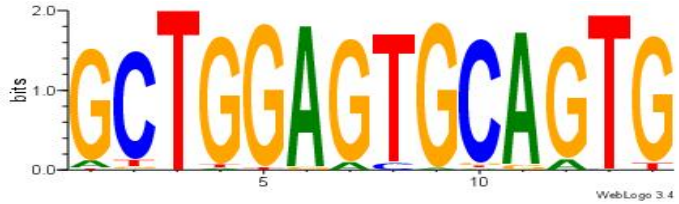

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0923953

Alignment:

```
TCKMGCCACTGCACTCCAGC
CTCTGCCCGGCCGC------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

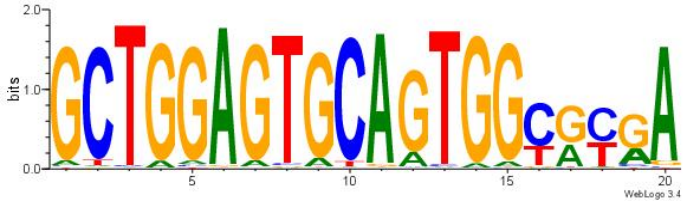

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

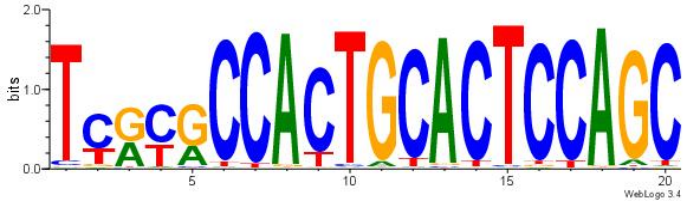

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0954742

Alignment:
AGCTCMKCCTCCTGTCAGAT
------GCGGCCGGGCAGAG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

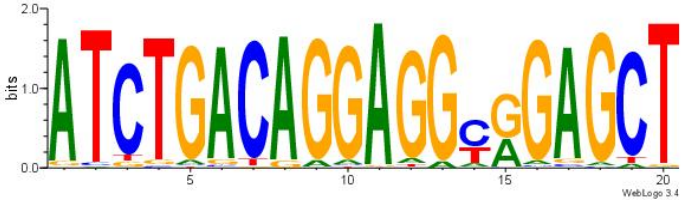

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

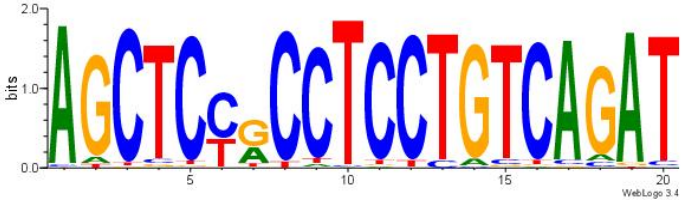

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0955199

Alignment:
AGCCCCGGTTCCCGCYCGC
-----CTCTGCCCGGCCGC

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

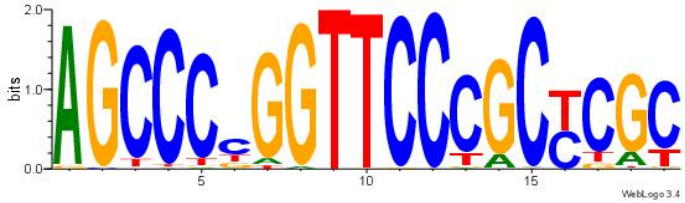

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

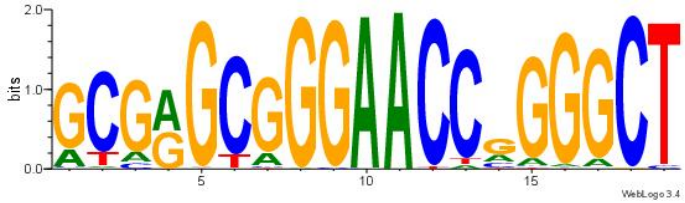

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0961122

Alignment:

```
CACTTCCCAGACGGGGCG
CTCTGCCCGGCCGC----
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

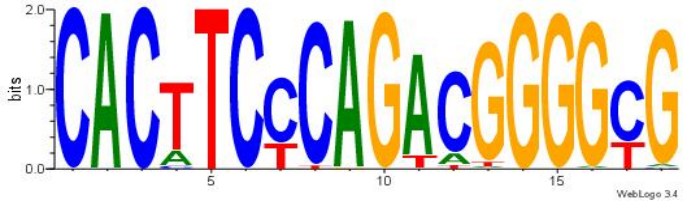

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

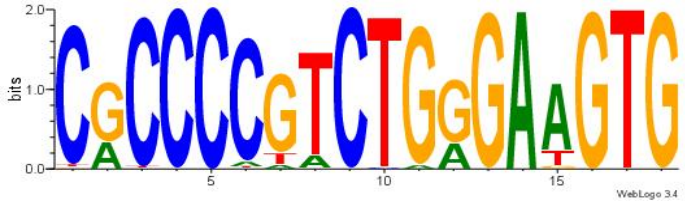

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0966596

Alignment:

```
GCCRGCCCTGCYGGCC
CTCTGCCCGGCCGC--
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

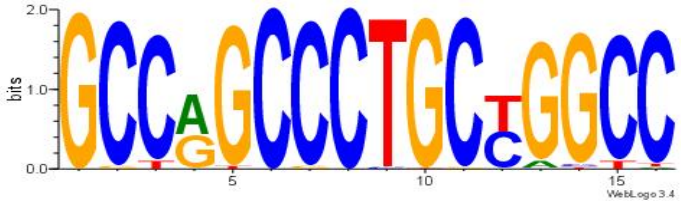

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

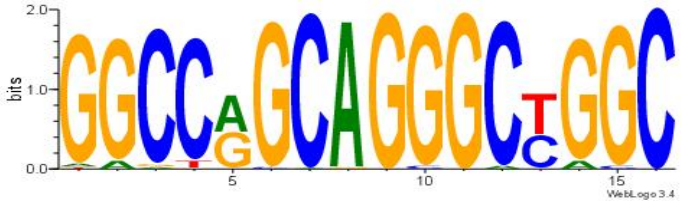

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.0997849

Alignment:
CCTTGGCCAGCCCAGAAAG
-CTCTGCCCGGCCGC----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

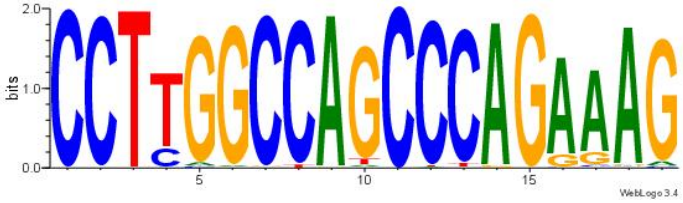

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

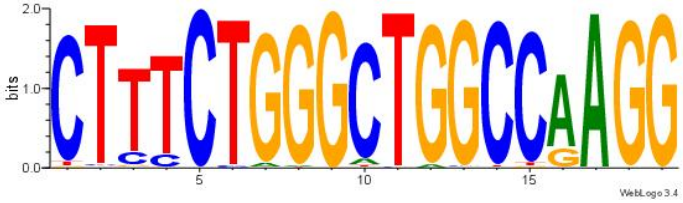

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.101603

Alignment:
GGGAGGAAGGGGACAC
--GCGGCCGGGCAGAG

Original motif Consensus sequence: GGGAGGAAGGGGACAC

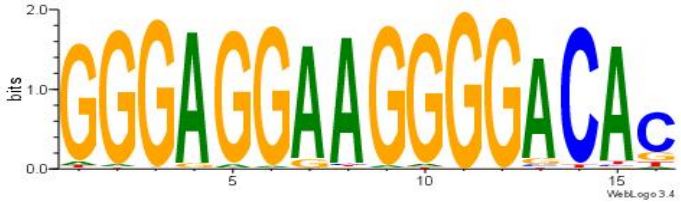

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

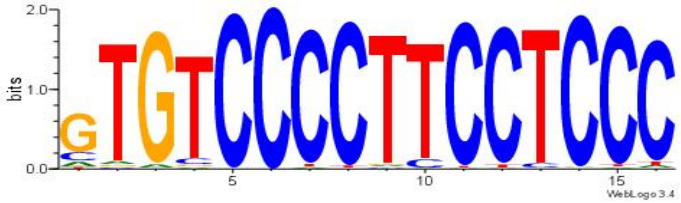

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.102042

Alignment:

```
GCCTCTCCCTCCACACCTCC
--CTCTGCCCGGCCGC----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

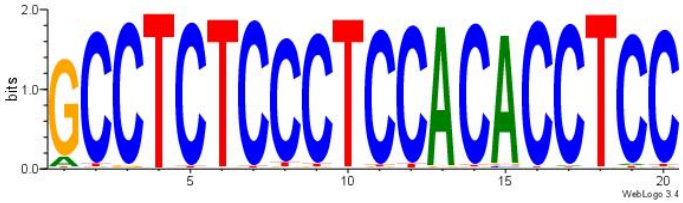

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

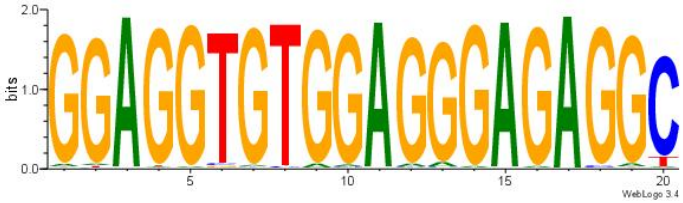

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.102107

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----GCGGCCGGGCAGAG-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

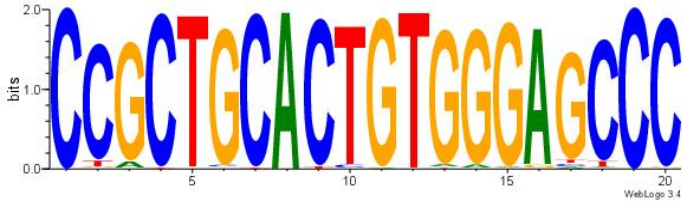

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

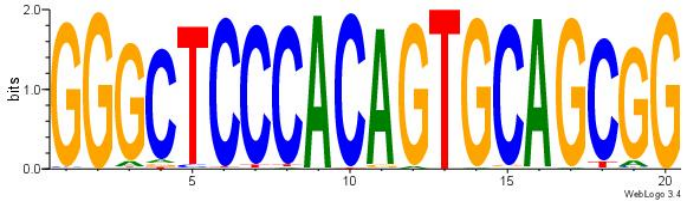

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.102878

Alignment:
AACTGAGGCTCAGAGA
-GCGGCCGGGCAGAG-

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

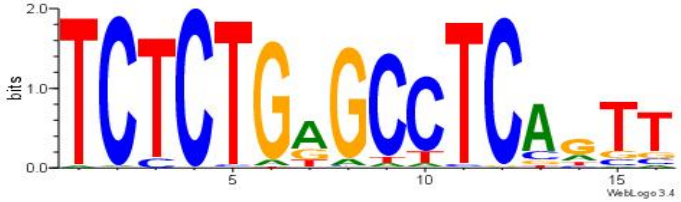

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

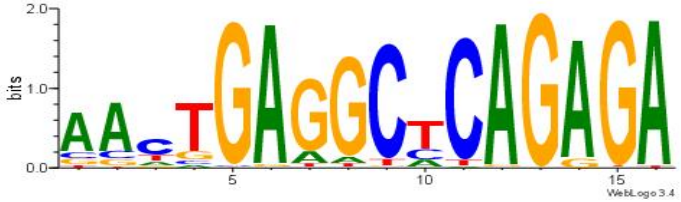

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.103349

Alignment:
GGCACTGCTGGGGGACCCAG
--CTCTGCCCGGCCGC----

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

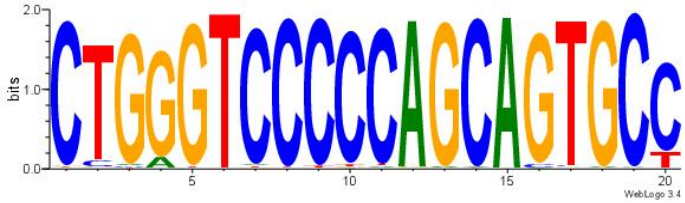

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

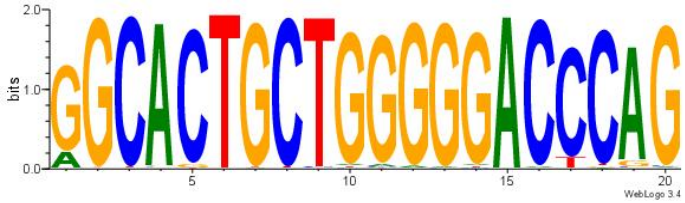

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.104225

Alignment:

```
GCCCTCACCAGAAGC
-CTCTGCCCGGCCGC
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

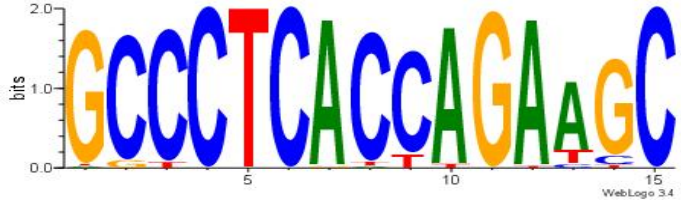

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

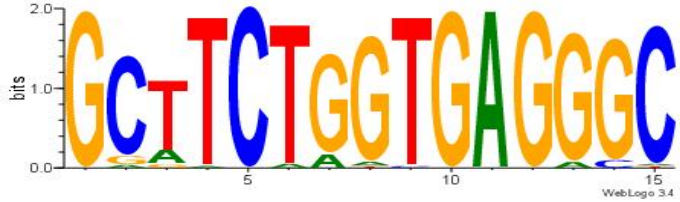

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.104317

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-----CTCTGCCCGGCCGC-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

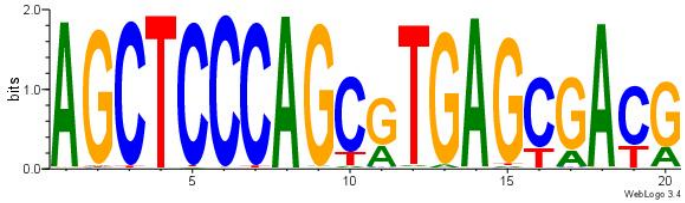

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

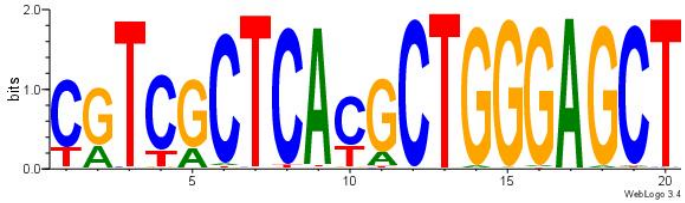

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.104774

Alignment:
GAATCCTGGGACAGCCTGT
GCGGCCGGGCAGAG-----

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

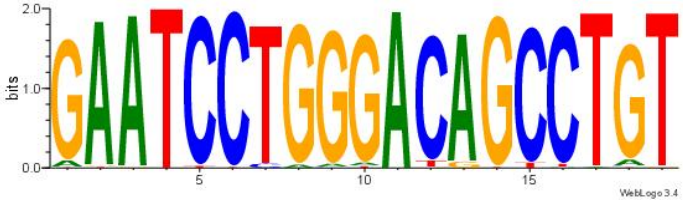

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

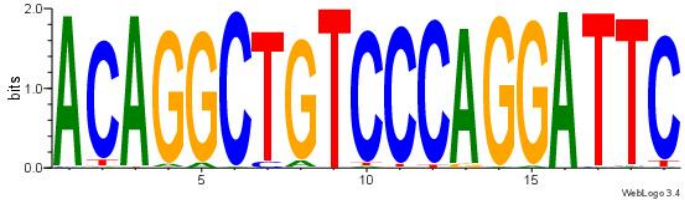

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.105454

Alignment:
AAGCAGGGCGAGGCATTGCC
--GCGGCCGGGCAGAG----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

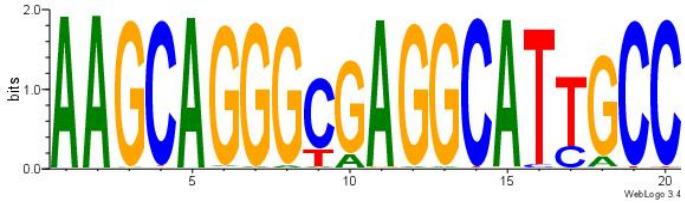

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

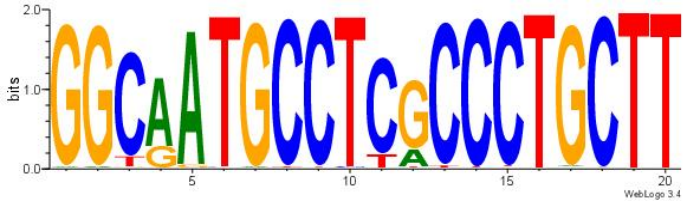

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.105927

Alignment:

```
MTCCTCCAGACCCCAGAATG
CTCTGCCCGGCCGC------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

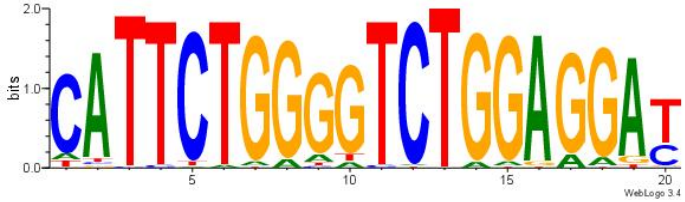

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

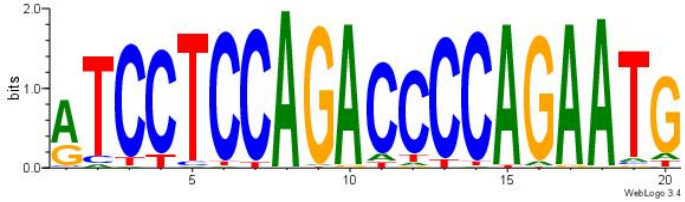

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.106403

Alignment:

```
GCCACCAMGCCMKGCTAAT
-CTCTGCCCGGCCGC----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

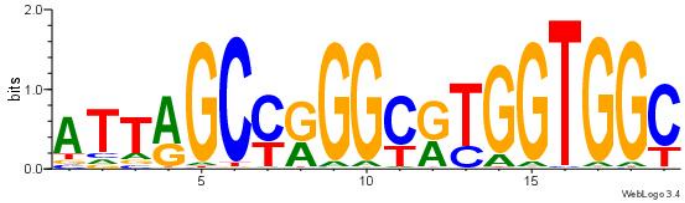

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

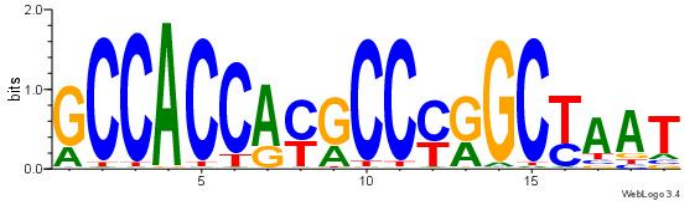

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.106726

Alignment:
CGCGGCGCTTGCGGGCCAGC
-----CTCTGCCCGGCCGC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

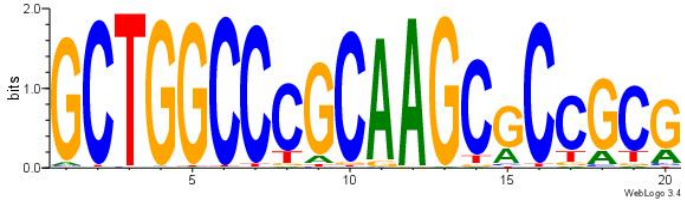

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

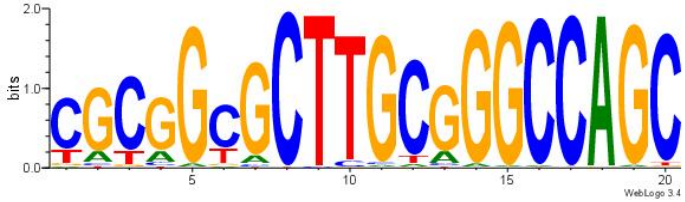

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.107614

Alignment:
CTTGCGCTTCCCRRGTGA
----CTCTGCCCGGCCGC

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

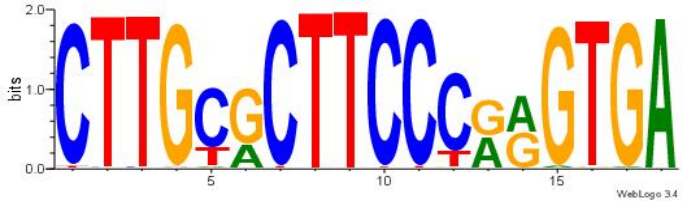

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

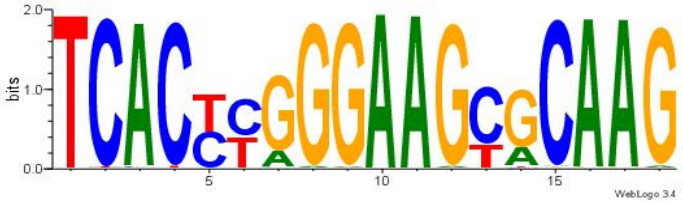

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.107628

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
---CTCTGCCCGGCCGC---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

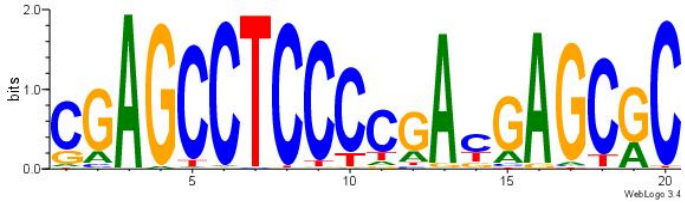

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

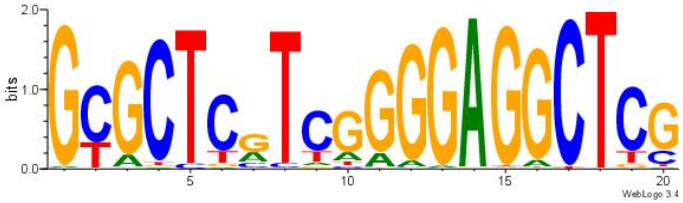

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.108684

Alignment:

```
AGTTCCGGGTGGGCGTGGG
----GCGGCCGGGCAGAG-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

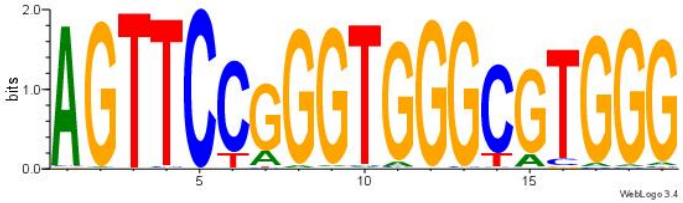

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

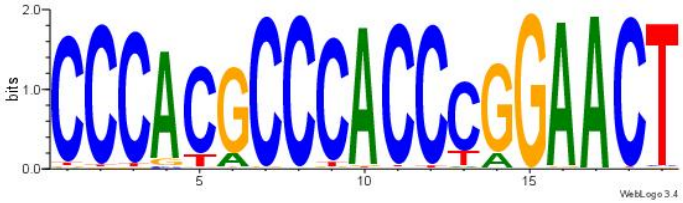

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.110042

Alignment:
TCCCTCCCGGACGGGGYGGC
--GCGGCCGGGCAGAG----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

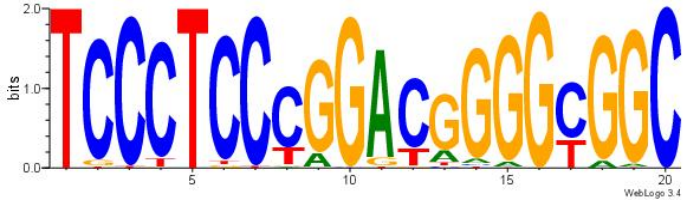

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

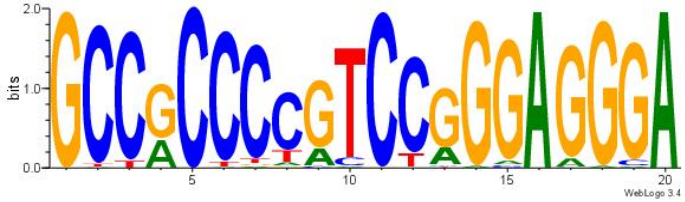

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.11134

Alignment:
CCCTCACTGCCCGGGG
CTCTGCCCGGCCGC--

Original motif Consensus sequence: CCCTCACTGCCCGGGG

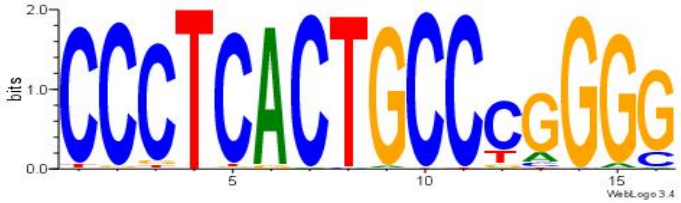

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

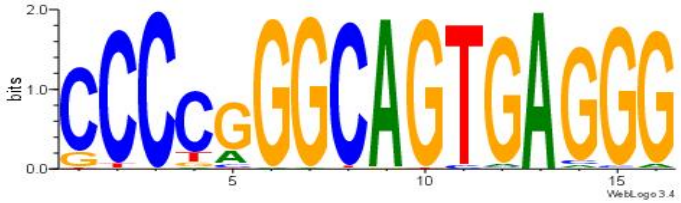

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.111463

Alignment:

```
GCTTAGCACCYGGGCCAGC
-----GCGGCCGGGCAGAG
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

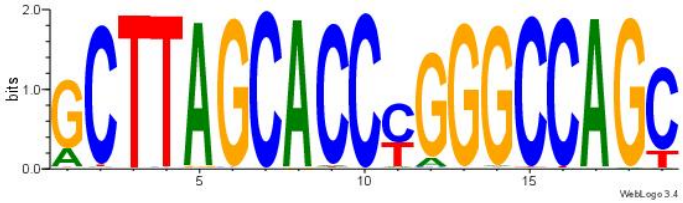

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

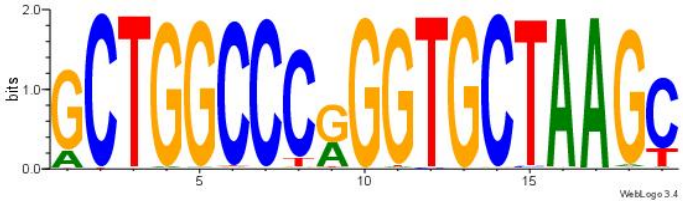

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.112829

Alignment:

```
ACCCYGTCTGGGAGGTG
-CTCTGCCCGGCCGC--
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

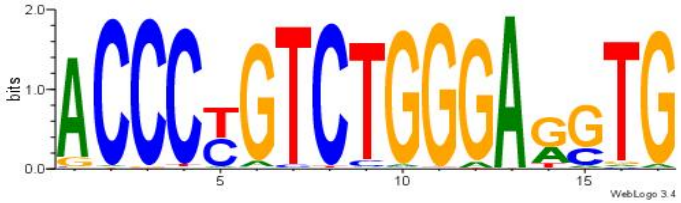

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

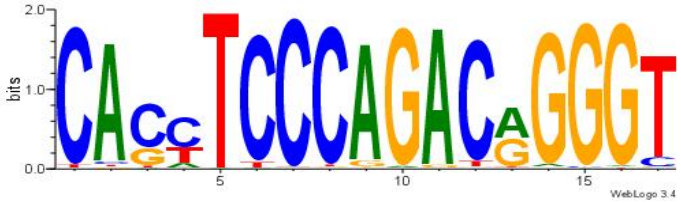

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.114006

Alignment:
CACTTCCTAGATGG
CTCTGCCCGGCCGC

Original motif Consensus sequence: CACTTCCTAGATGG

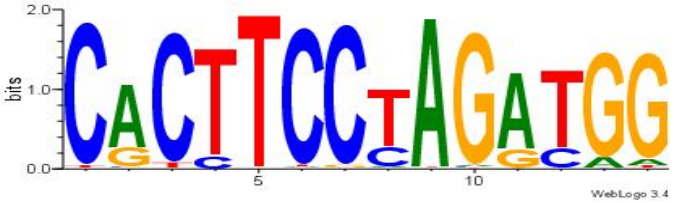

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

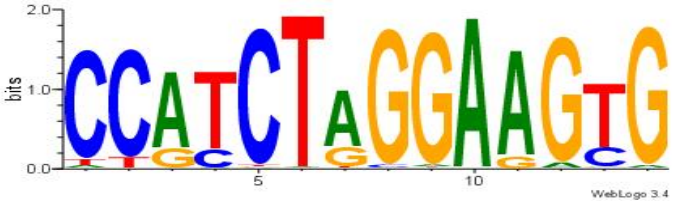

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.114654

Alignment:
AGACCAGCCTGGCCAAC
GCGGCCGGGCAGAG---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

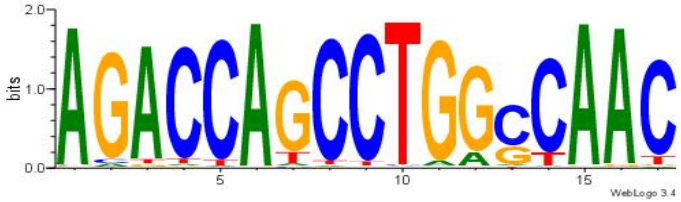

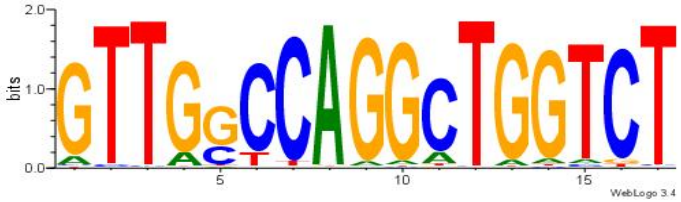

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.117527

Alignment:

```
TGTAKTCCCAGCTAC
-CTCTGCCCGGCCGC
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

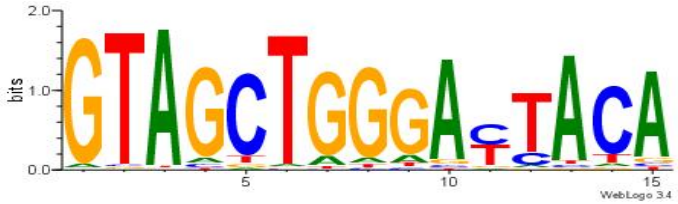

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

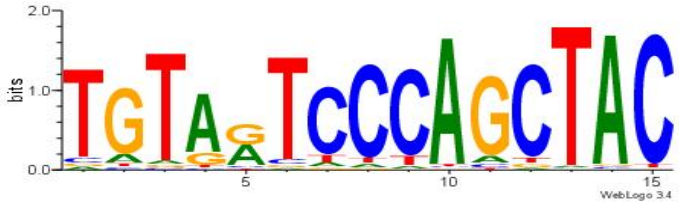

Dataset #:	1
Motif ID:	170

Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.11784

Alignment:

```
ATTGATMKCCAGGGTTGATT
-----GCGGCCGGGCAGAG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

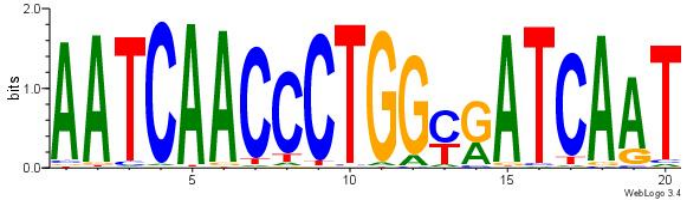

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

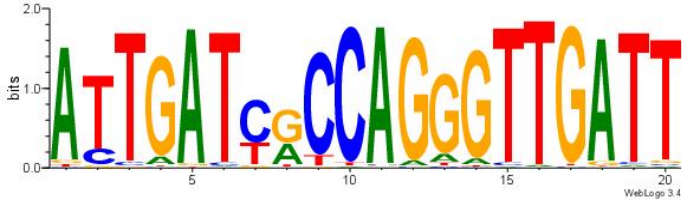

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.117915

Alignment:
CTCTTGTTGCCCAG
CTCTGCCCGGCCGC

Original motif Consensus sequence: CTCTTGTTGCCCAG

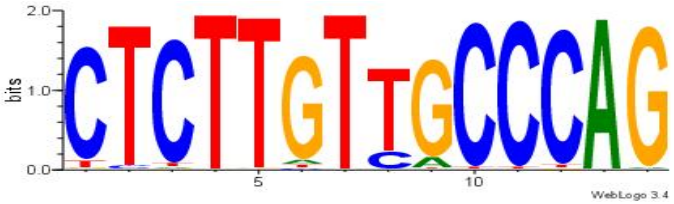

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

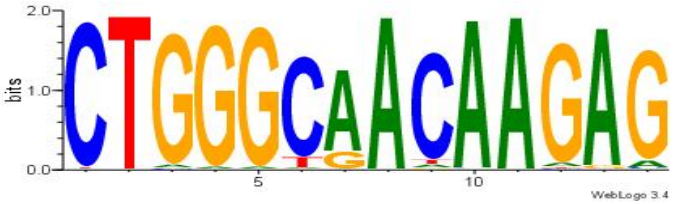

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.118355

Alignment:
GGGGGCTGACCCCCCCACC
-----CTCTGCCCGGCCGC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

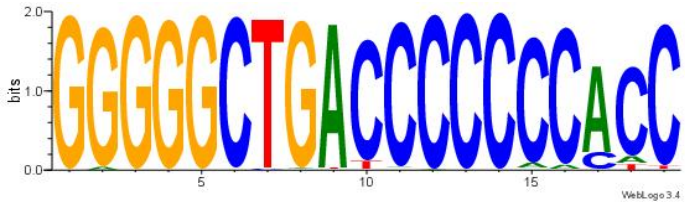

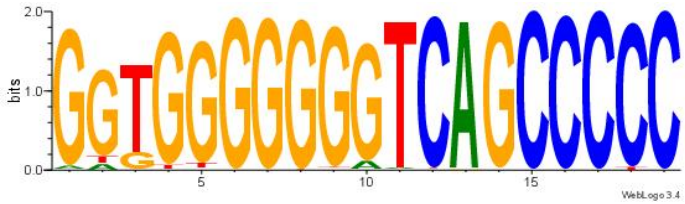

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.118532

Alignment:

```
KGGGCDGAGGGGCTCCT
---GCGGCCGGGCAGAG
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

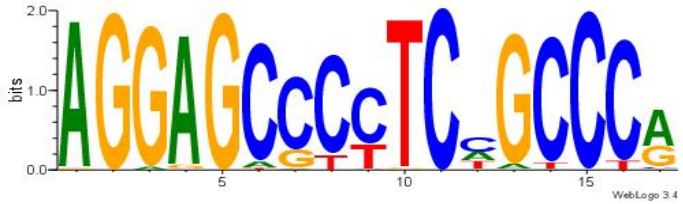

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

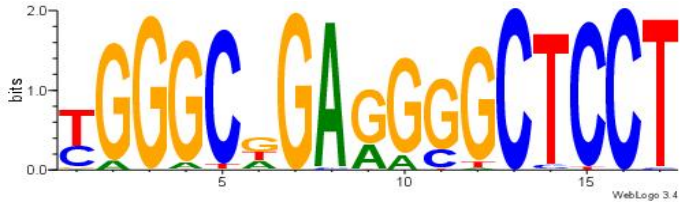

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.119177

Alignment:

```
CAAASCKGTCATAGGCCAT
GCGGCCGGGCAGAG-----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

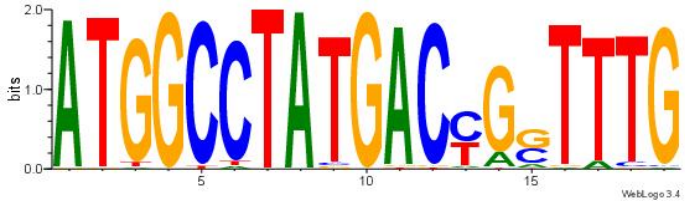

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

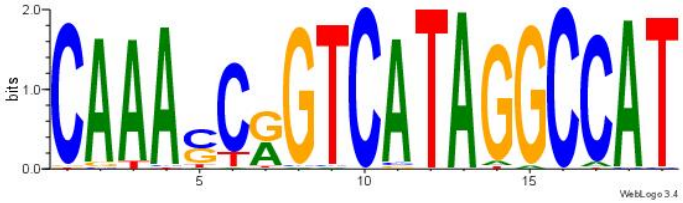

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.119589

Alignment:
AAGCTCGAACTGGGTGGAGC
-----GCGGCCGGGCAGAG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

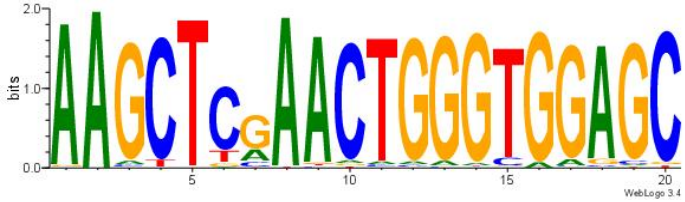

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

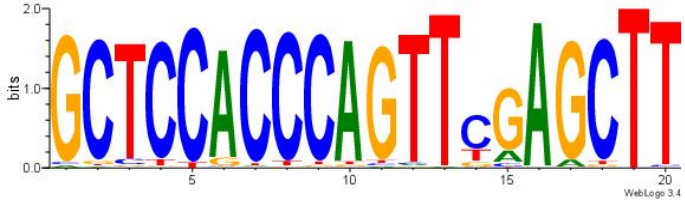

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.120374

Alignment:
CACTTTCCAGACTGGGCA
CTCTGCCCGGCCGC----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence:
CACTTTCCAGACTGGGCA

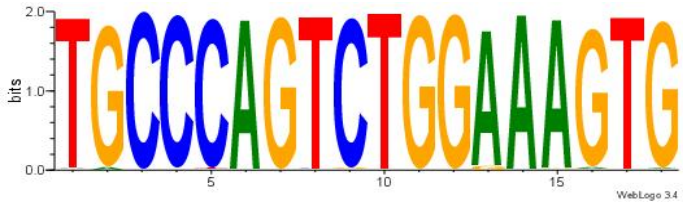

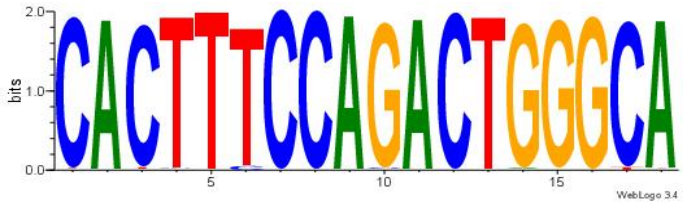

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.120587

Alignment:

```
GTCCCATCGACCACCCAAG
CTCTGCCCGGCCGC-----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

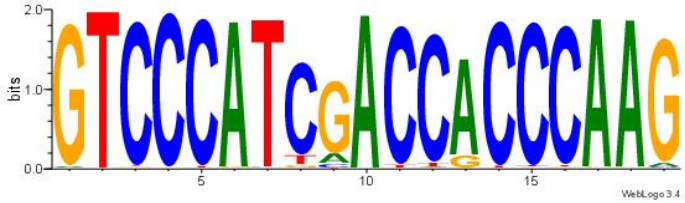

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

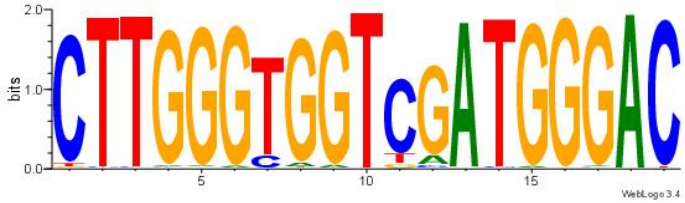

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.120947

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-GCGGCCGGGCAGAG-----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

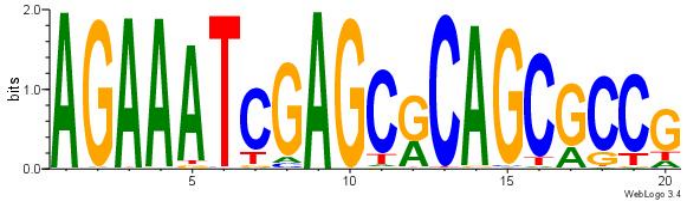

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

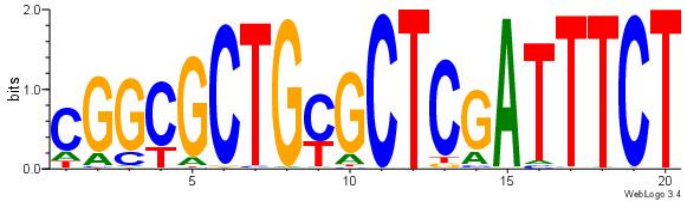

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.121094

Alignment:
GCCKGGMKCMGTGGCTCAKG
-----GCGGCCGGGCAGAG-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

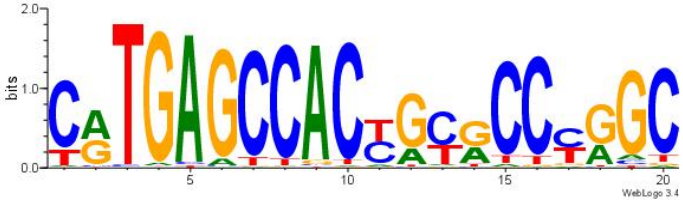

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

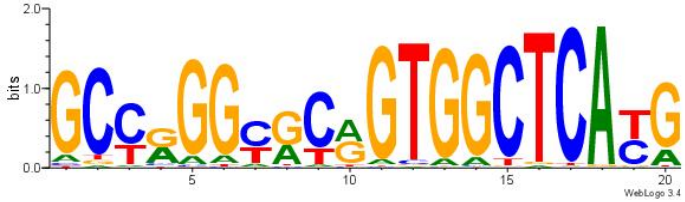

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.121209

Alignment:
AGGACTGAGGGTGCCYRGGG
------GCGGCCGGGCAGAG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

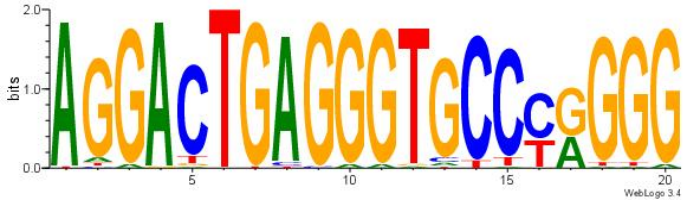

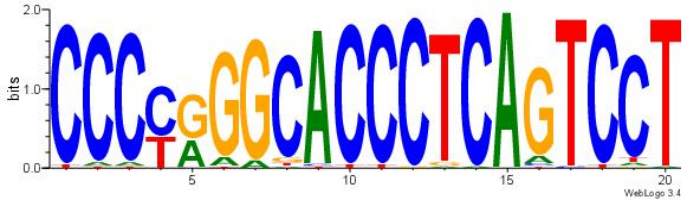

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.121396

Alignment:

```
GACCTGCAGCCCGCCATG
---CTCTGCCCGGCCGC-
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

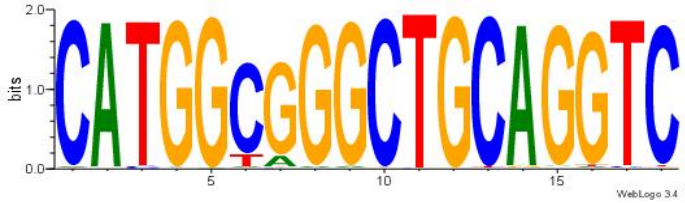

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

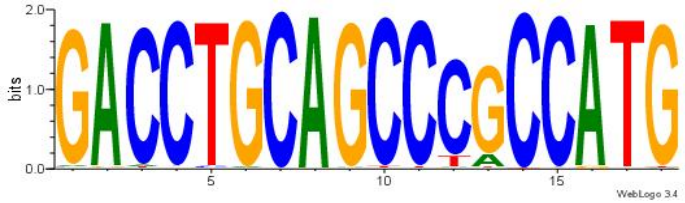

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.121736

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-----CTCTGCCCGGCCGC-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

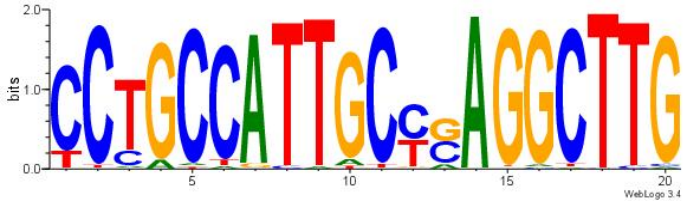

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

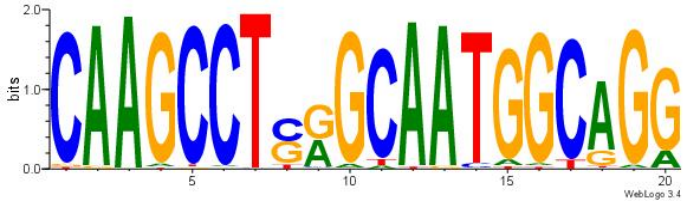

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14

Similarity score: 0.123125

Alignment:
TGCTGGAGGTCCACTCCAGA
CTCTGCCCGGCCGC------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

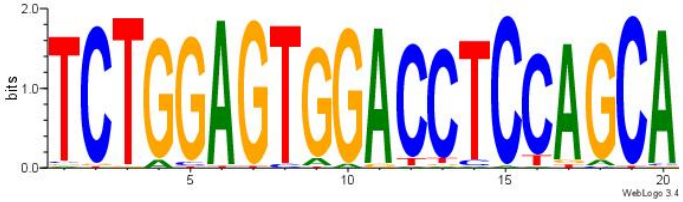

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

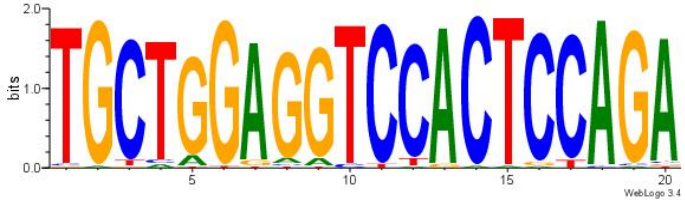

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.123209

Alignment:
CTGTTTGCCTGGGTATCA
--CTCTGCCCGGCCGC--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence:
CTGTTTGCCTGGGTATCA

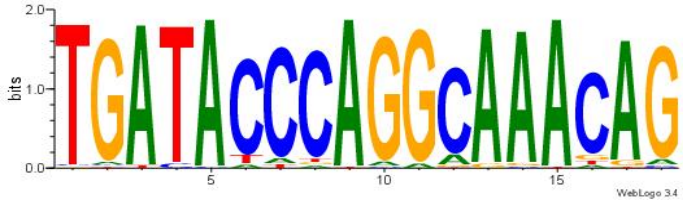

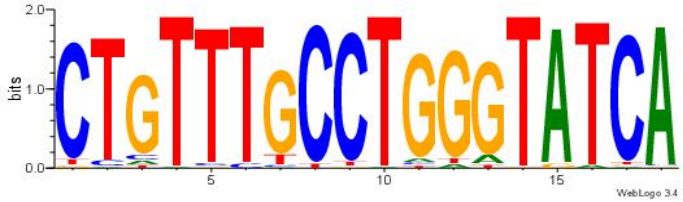

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.123254

Alignment:

```
CTCCCAGCCGCCTG
CTCTGCCCGGCCGC
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

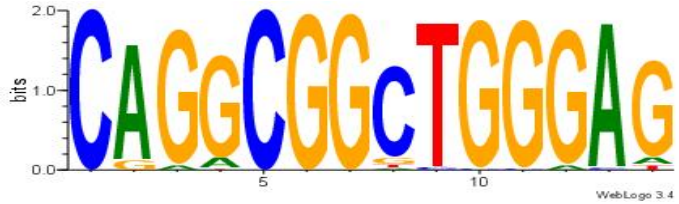

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

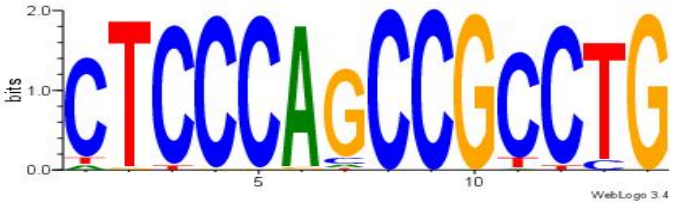

Dataset #:	1
Motif ID:	310

Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.123273

Alignment:

```
GGATTTMKGACTTGCATGGG
-----GCGGCCGGGCAGAG-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

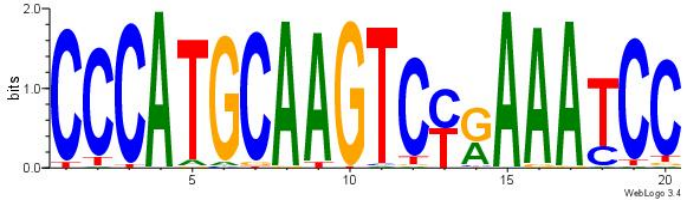

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

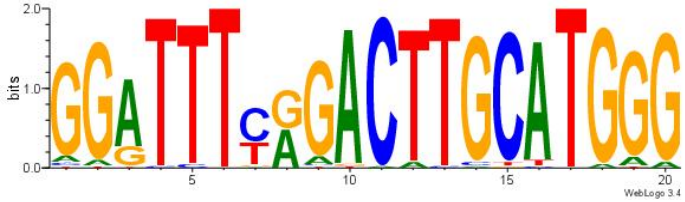

Dataset #: 1 Motif ID: 43 Motif name: Motif 43

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

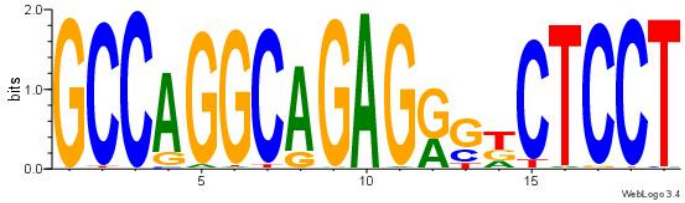

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

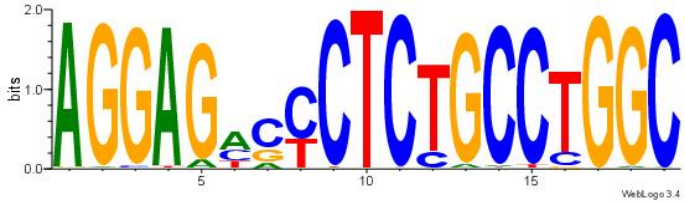

Best Matches for Motif ID 43 (Highest to Lowest)

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.049578

Alignment:
GCCGGGRAGAGGCGCTCCT
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

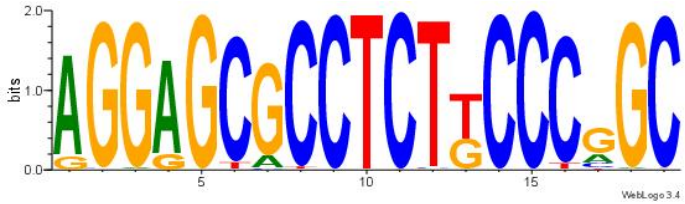

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

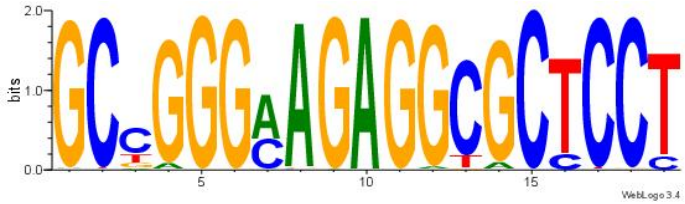

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0674635

Alignment:
AGGASCSTCYSWGCCMGGY
AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

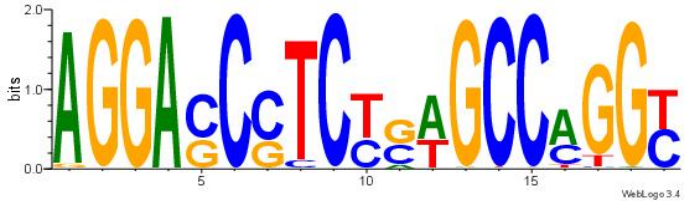

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

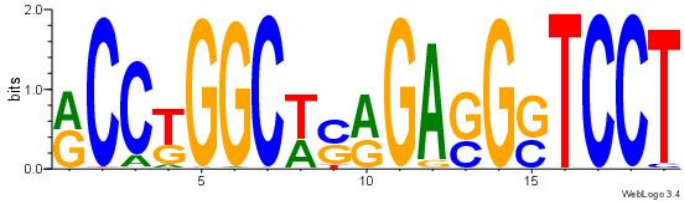

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0870511

Alignment:
CRTGAGCCACYGYRCCYGGC
-AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

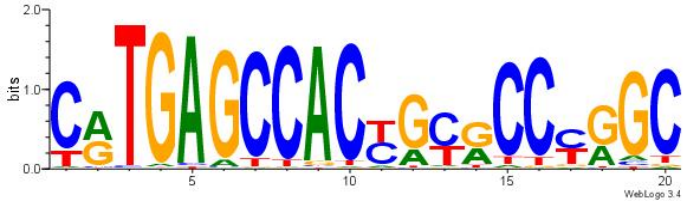

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

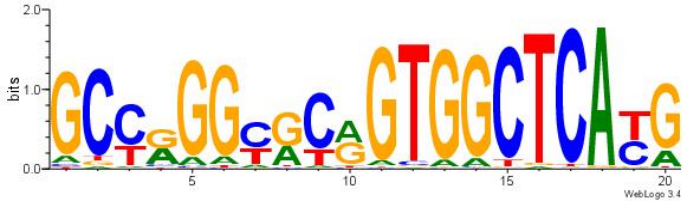

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.101843

Alignment:

```
AGGACTGAGGGTGCCYRGGG
AGGAGRCMCTCTGCCTGGC-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

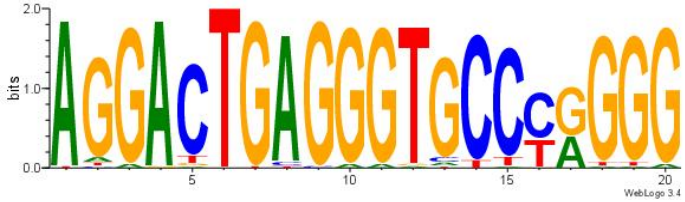

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

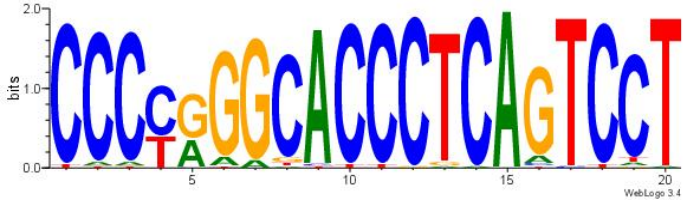

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.106781

Alignment:

```
AATGAKATCATGTCYTTTGC
-AGGAGRCMCTCTGCCTGGC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

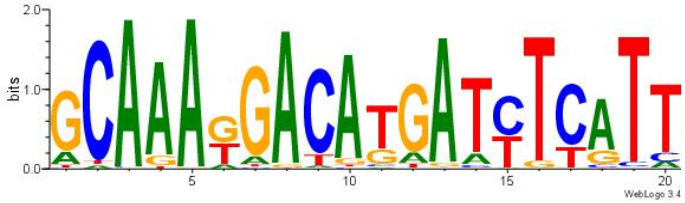

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

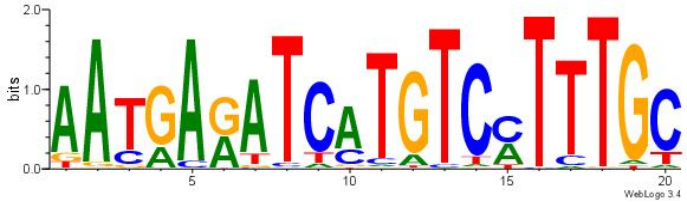

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.108718

Alignment:
GGCAATGCCTCGCCCTGCTT
AGGAGRCMCTCTGCCTGGC-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

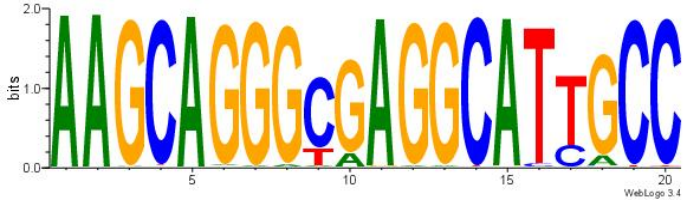

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

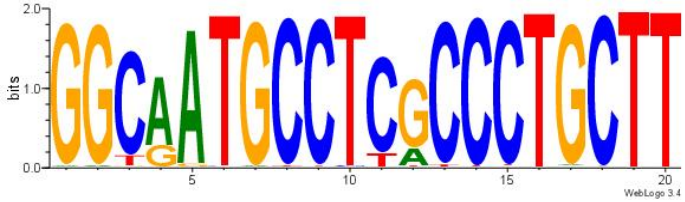

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.112934

Alignment:
CACCAGACTCAGGAGCCCAG
-GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

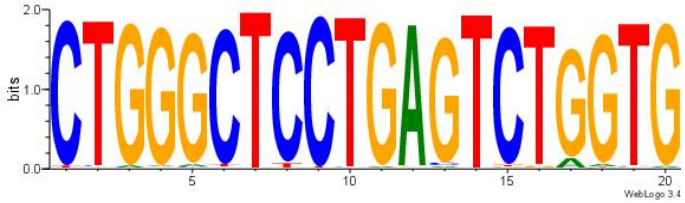

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

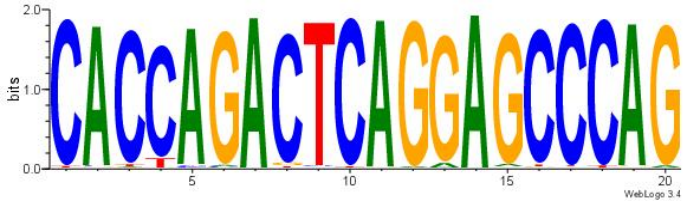

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.113202

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
AGGAGRCMCTCTGCCTGGC-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

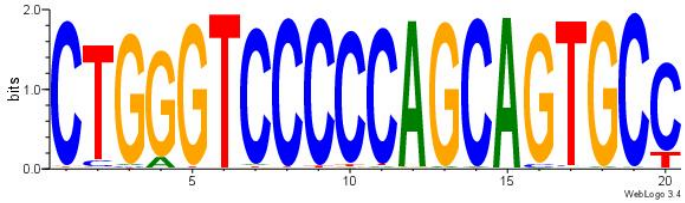

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

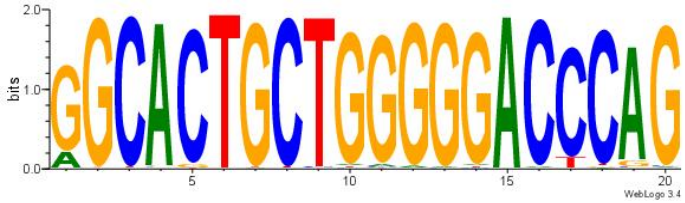

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.113444

Alignment:

```
GCCAGTCACAAAARGACAMA
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

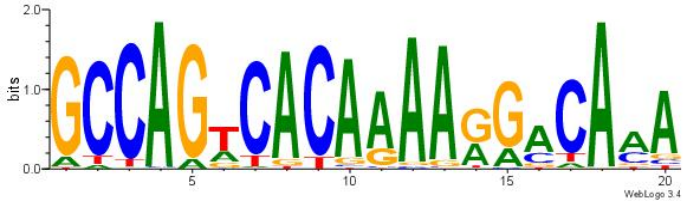

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

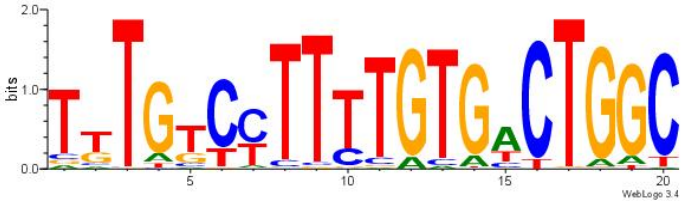

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.114884

Alignment:
CTAGACATAAAGGTTCTCCA
-GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

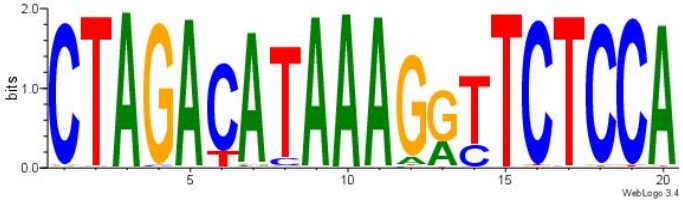

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

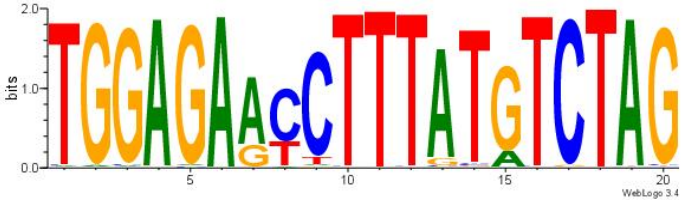

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.121699

Alignment:
ATTAGCYRGGCRTGGTGGC
AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

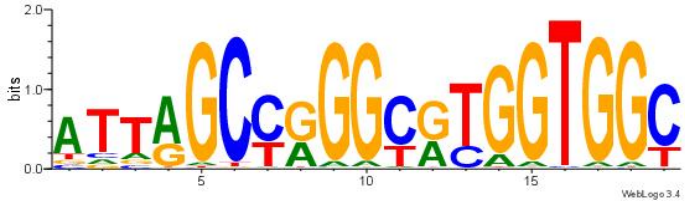

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

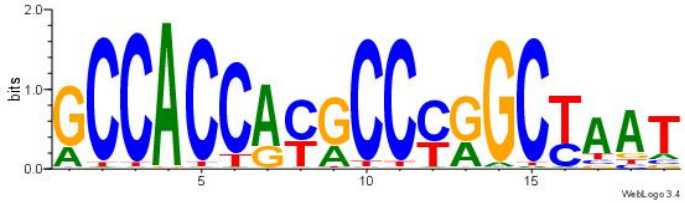

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.121965

Alignment:

```
MGGGATATAATCTCCTGGTG
-AGGAGRCMCTCTGCCTGGC
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

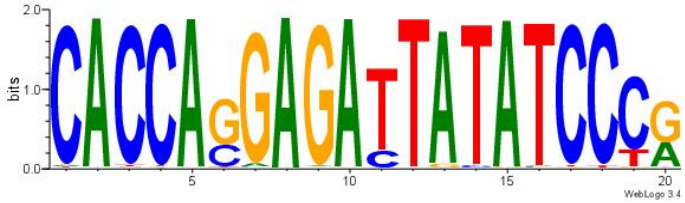

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

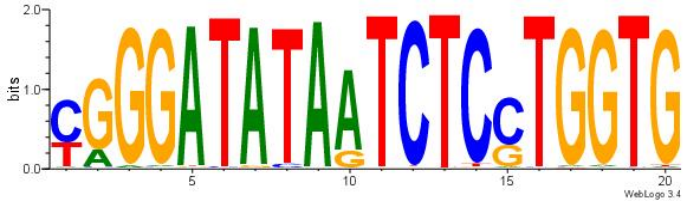

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.122533

Alignment:

```
GACTGGCAGGCAGCTCCACC
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

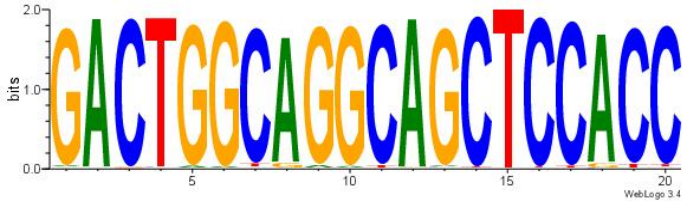

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

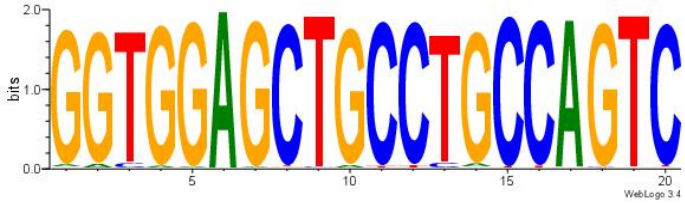

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.122936

Alignment:
GTAGACKGGAGCTGTTCCT
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

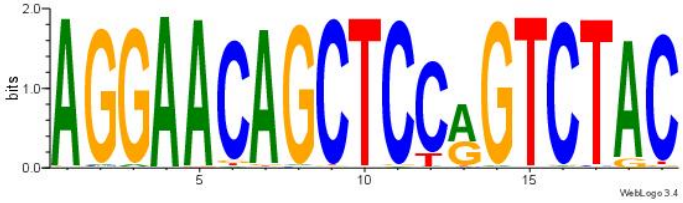

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

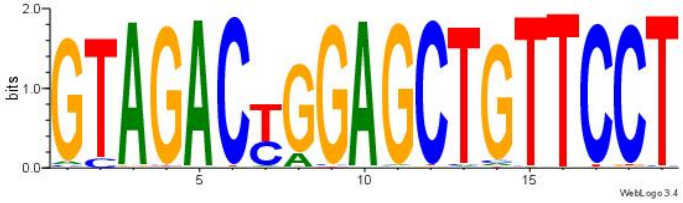

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.123182

Alignment:
GAAGGCAGCTAAGGCCCGGY
-AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

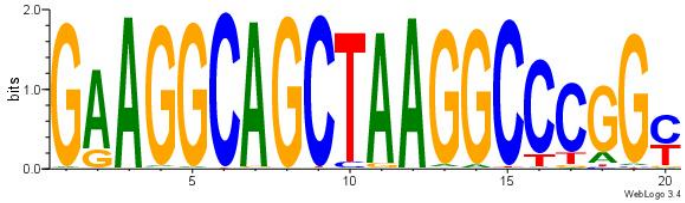

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

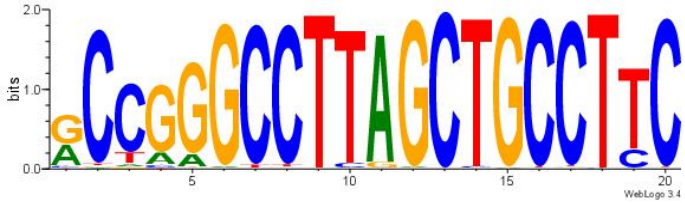

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.124833

Alignment:

```
ACCTGGAAAATCGGGTCACT
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

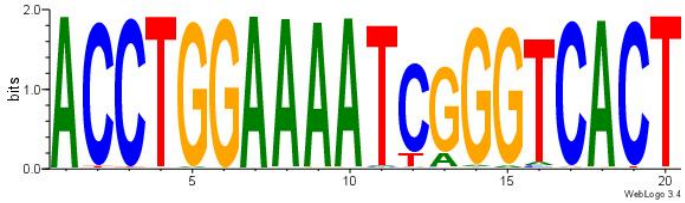

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

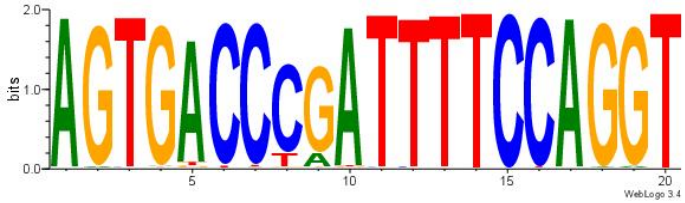

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12739

Alignment:
CCCACGCCCACCCGGAACT
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

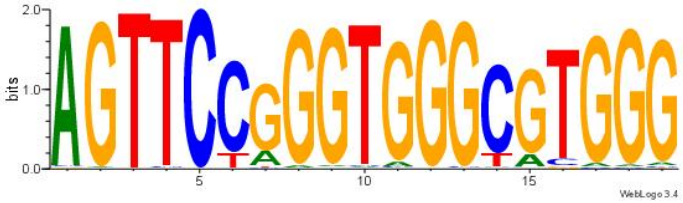

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

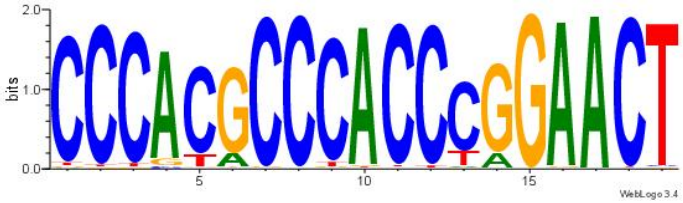

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.128365

Alignment:
GCGMGCGGGAACCGGGGCT
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

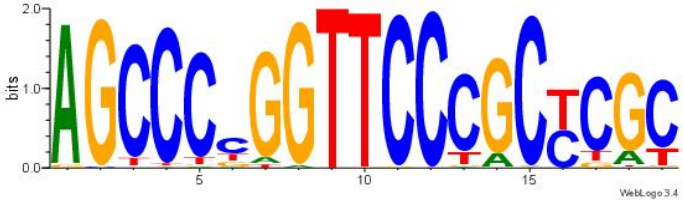

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

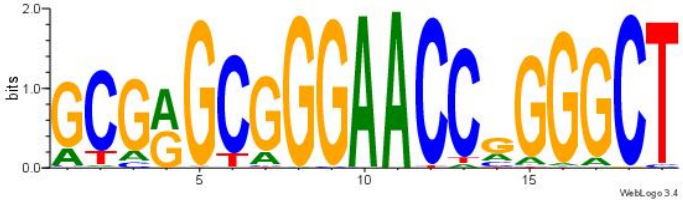

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.128684

Alignment:
GAGAGAGAGAGAGAGAGAGA
GCCAGGCAGAGRGKCTCCT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

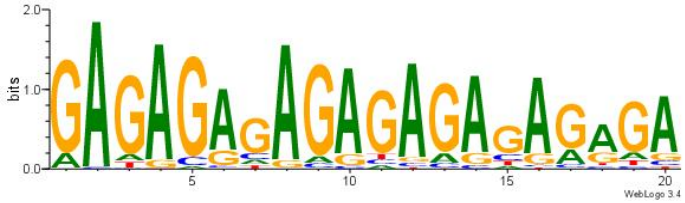

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

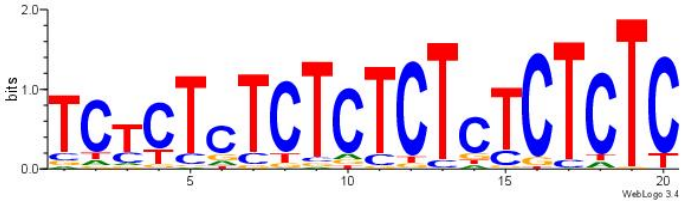

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13002

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-AGGAGRCMCTCTGCCTGGC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

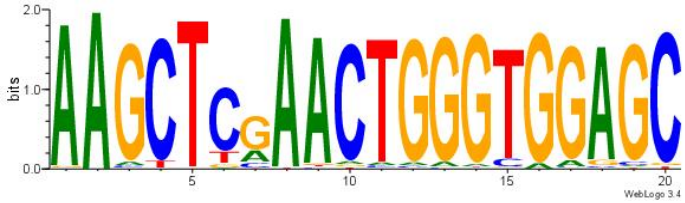

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

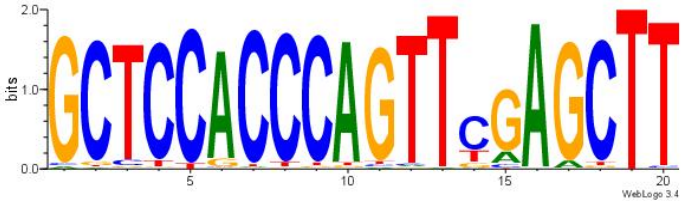

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.130979

Alignment:
CGGCTTCATTCTTGAAGTC
AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

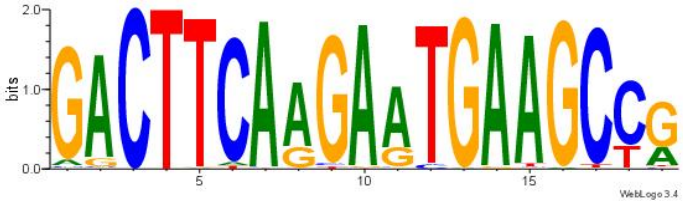

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

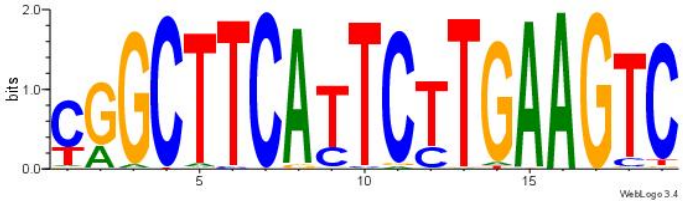

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.131708

Alignment:
CTCCTGCCTCAGCCTCCCRA
-GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

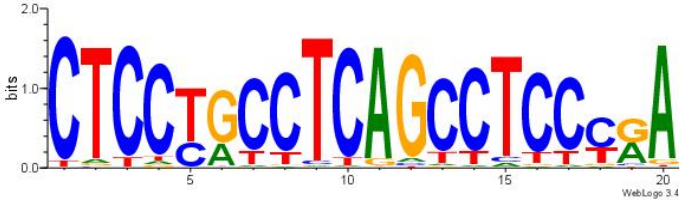

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

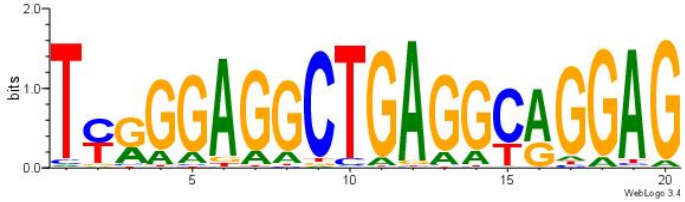

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.131801

Alignment:
AACAACASACACTGGGGCCT
-GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

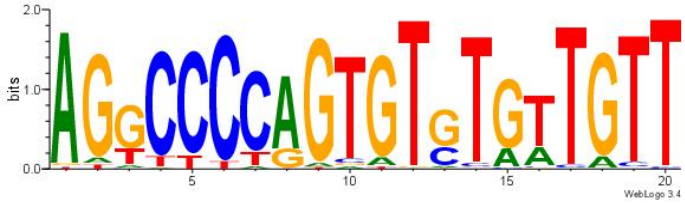

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

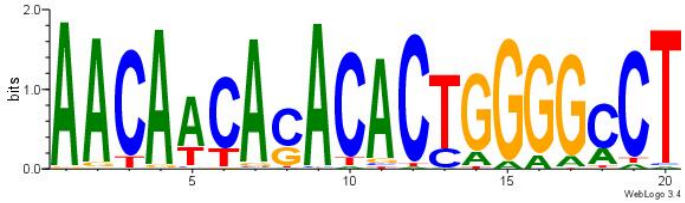

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132085

Alignment:

```
AGTAGGTGCTCARTAAATRB
AGGAGRCMCTCTGCCTGGC-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

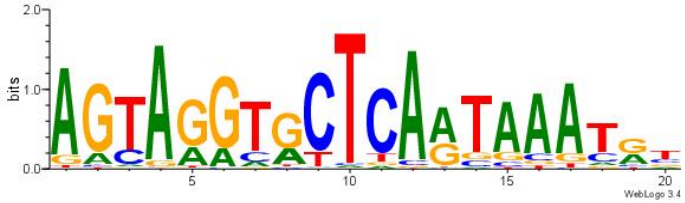

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

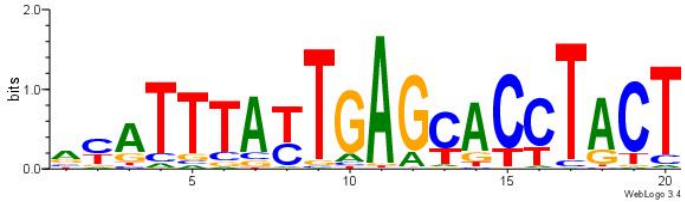

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.133361

Alignment:

```
CCGCTGCACTGTGGGAGCCC
AGGAGRCMCTCTGCCTGGC-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

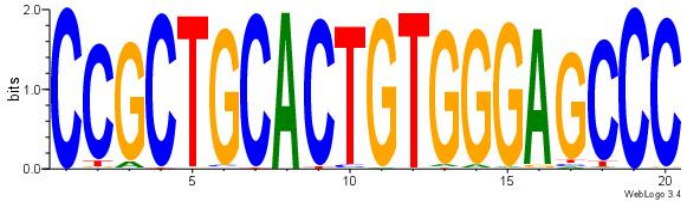

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

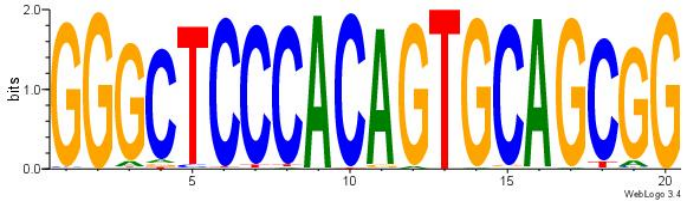

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.136029

Alignment:
AAATTACCCAGTCTCAGGTA
AGGAGRCMCTCTGCCTGGC-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

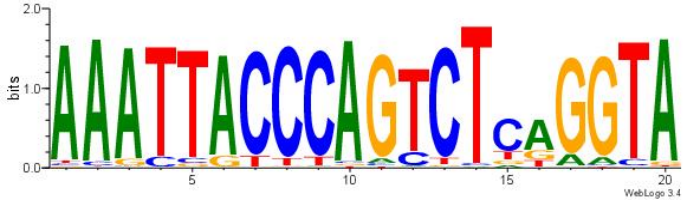

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

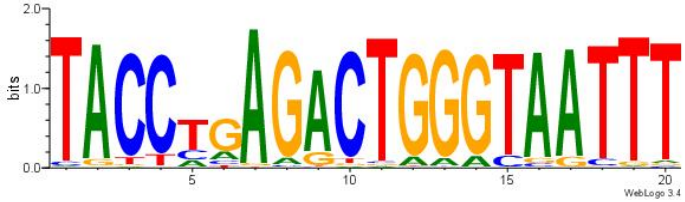

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.136218

Alignment:
ATCTGACAGGAGGYRGAGCT
-GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

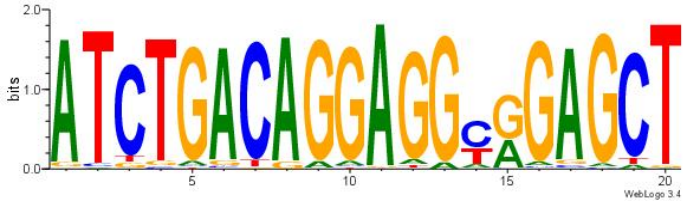

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

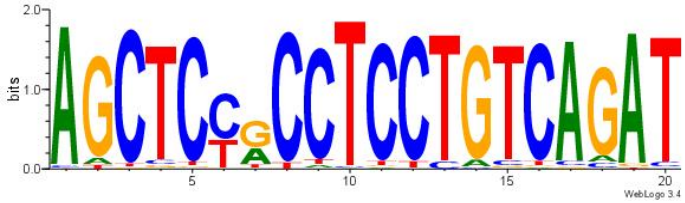

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.137001

Alignment:

```
CGGCGCTGMGCTCGATTTCT
AGGAGRCMCTCTGCCTGGC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

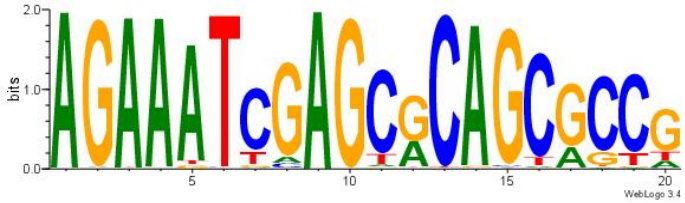

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

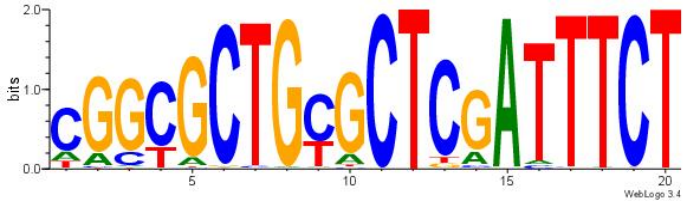

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138231

Alignment:

```
CTGGGCRACAGAGYRAGACY
-AGGAGRCMCTCTGCCTGGC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

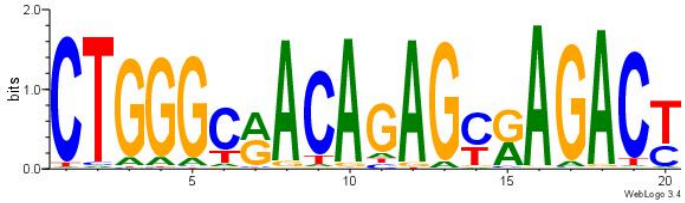

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

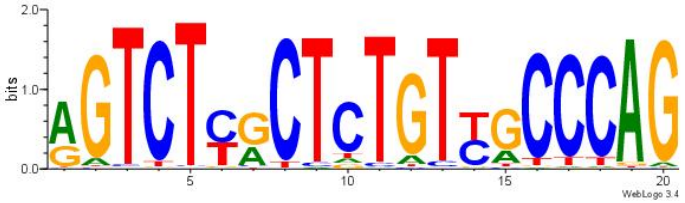

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.138605

Alignment:
GGTGGGGGGGTCAGCCCCC
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

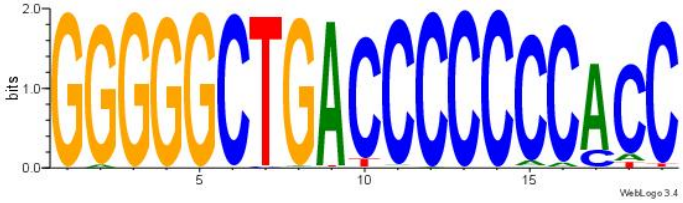

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

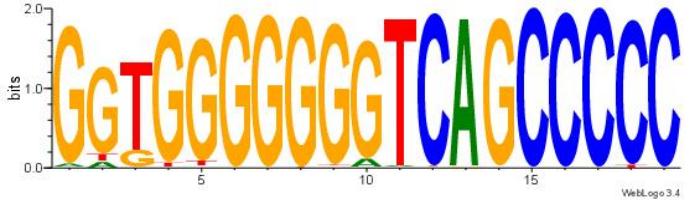

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139136

Alignment:
GTGGCCCTCTTCTCACAGCT
-AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

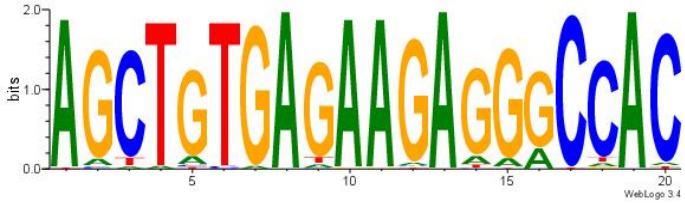

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

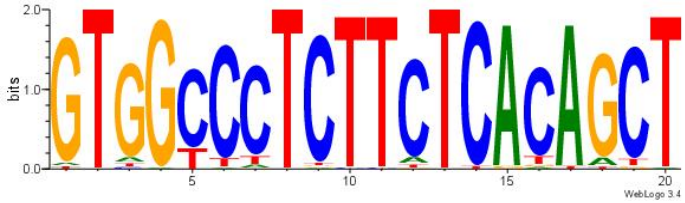

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139156

Alignment:

```
ATGATCCAGCAATYCCACTH
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

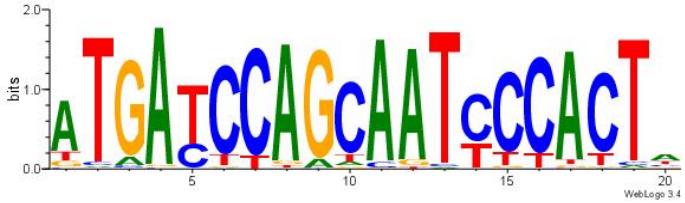

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

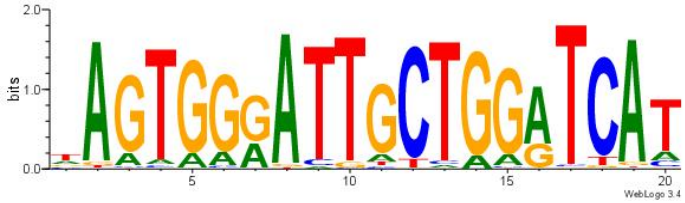

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.139161

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-GCCAGGCAGAGRGKCTCCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

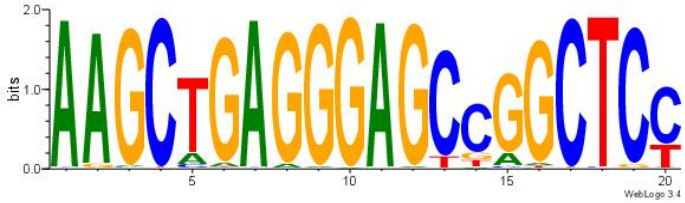

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

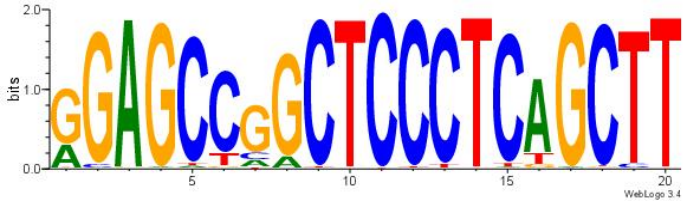

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.139784

Alignment:
CTGACTGGGAGACACCTCCC
GCCAGGCAGAGRGKCTCCT-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

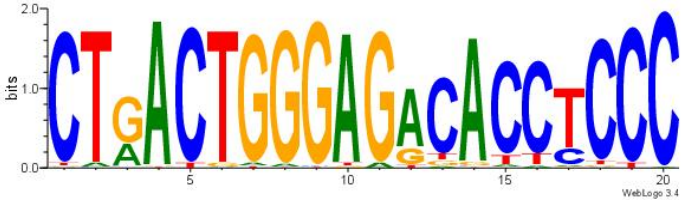

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

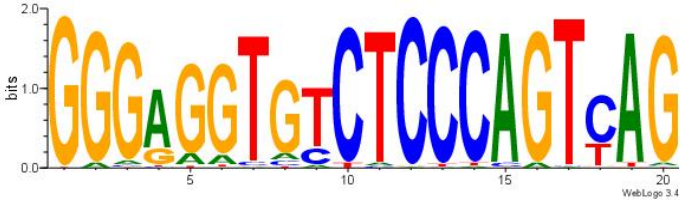

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140488

Alignment:
GTAACACTCACCGCGARGGT
AGGAGRCMCTCTGCCTGGC-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

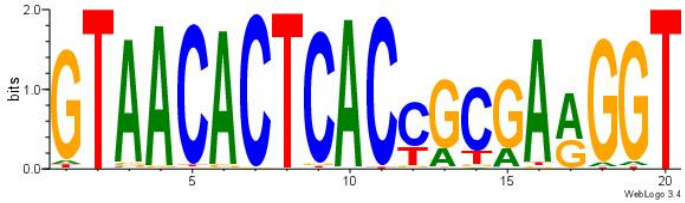

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

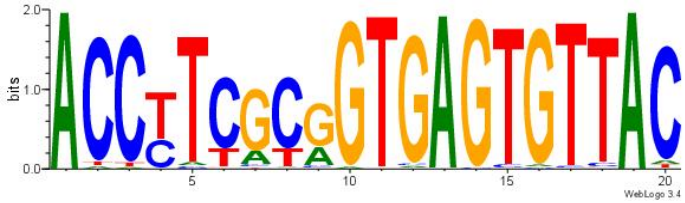

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.140537

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

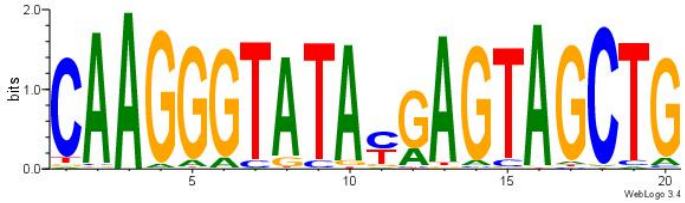

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

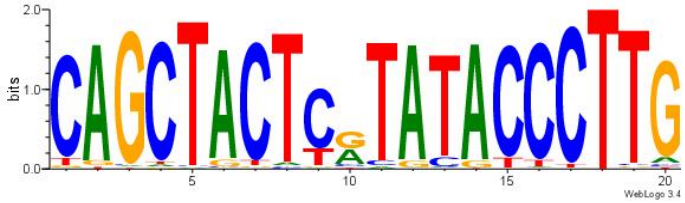

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141175

Alignment:
CTGAGGACCTGAGGTCRTA
AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

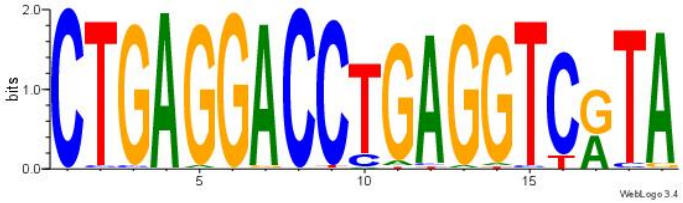

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

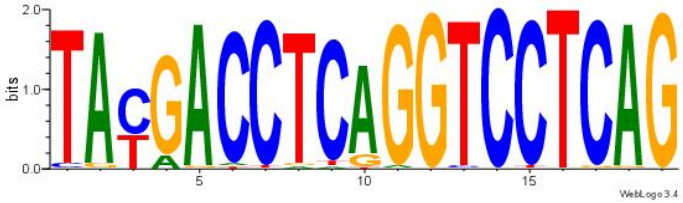

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.142061

Alignment:
ACCGAGMKMGCAGCTTCGGG
AGGAGRCMCTCTGCCTGGC-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

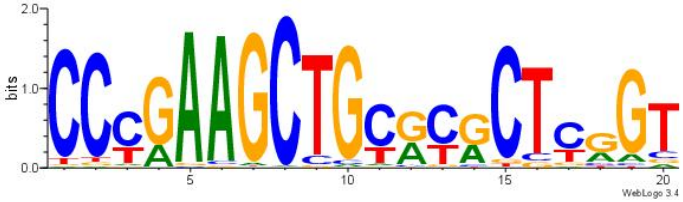

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

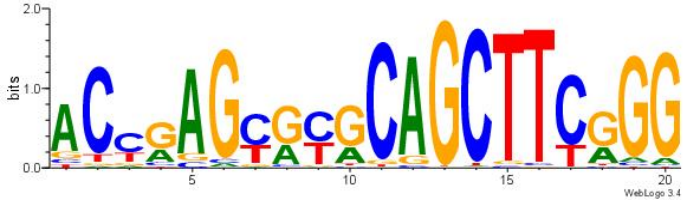

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.14222

Alignment:
GCTTAGCACCYGGGCCAGC
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

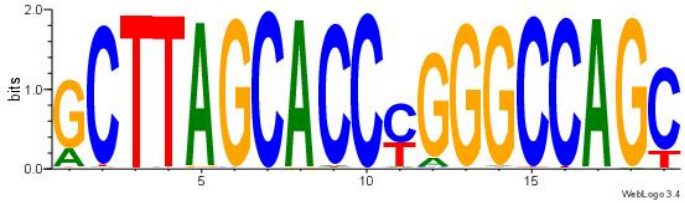

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

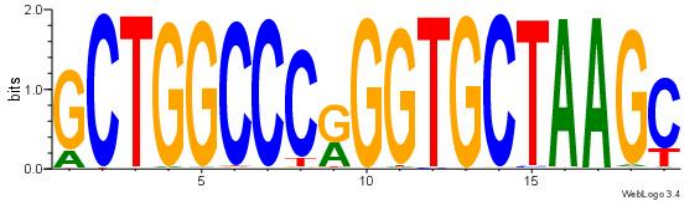

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.144447

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

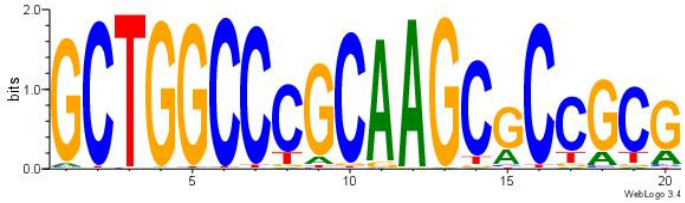

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

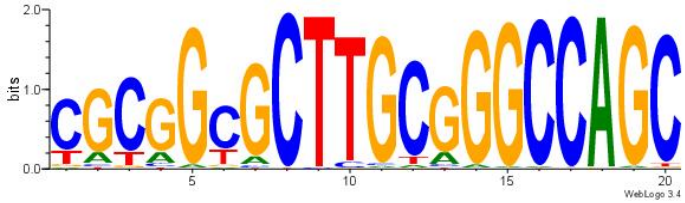

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144741

Alignment:
AGATGCCAGCCAGAGCTCT
GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

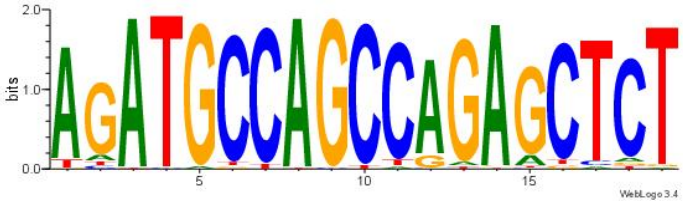

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

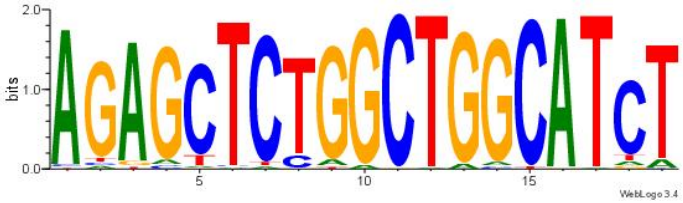

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.144905

Alignment:
CGCCCATCGTCTGGGATGT
AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

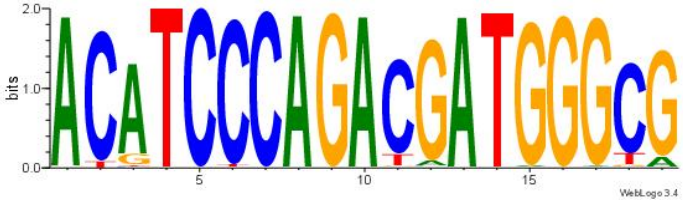

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

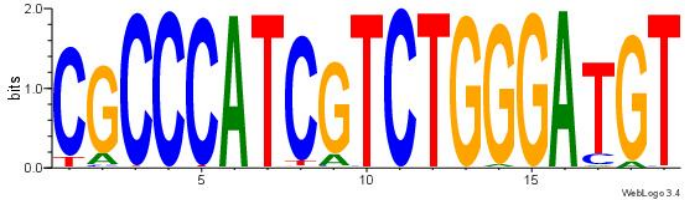

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.145275

Alignment:
KKCACCTTGATCTTGGACTT
GCCAGGCAGAGRGKCTCCT-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

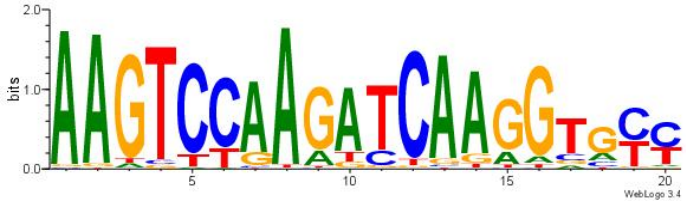

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

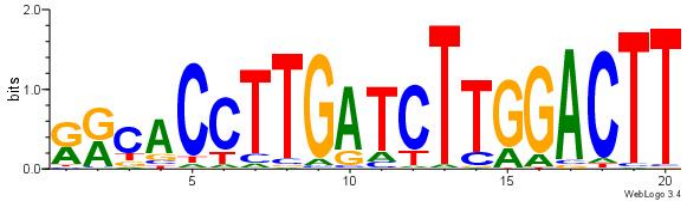

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145541

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-GCCAGGCAGAGRGKCTCCT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

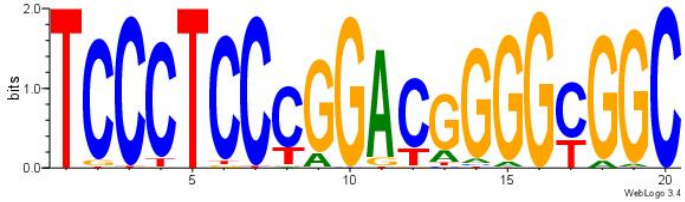

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

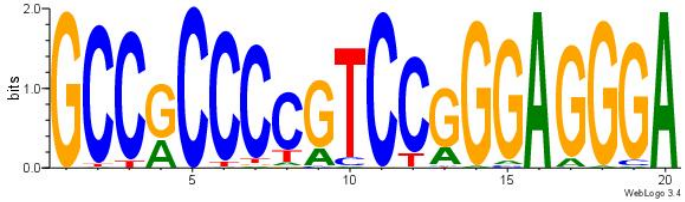

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146297

Alignment:

```
AGTGAGAACATRYRRTRTTT
GCCAGGCAGAGRGKCTCCT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

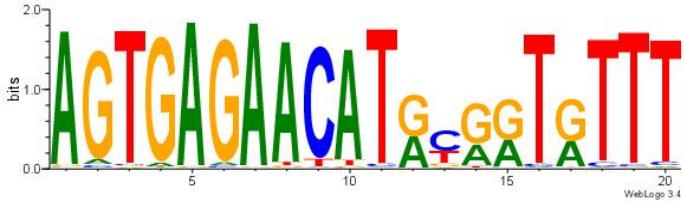

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

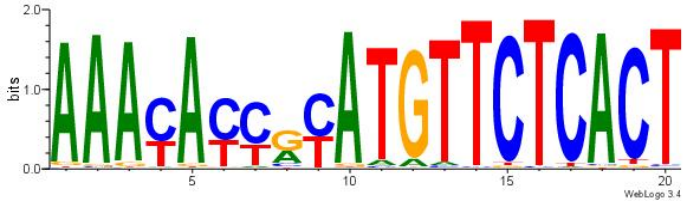

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.146337

Alignment:
GACAGGAGATTAACACTGAG
-AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

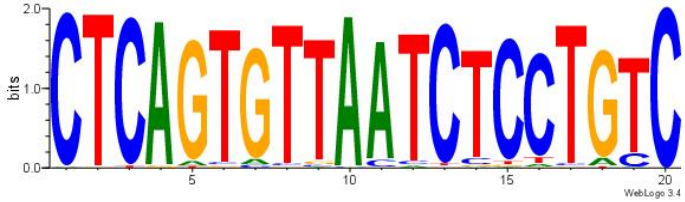

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

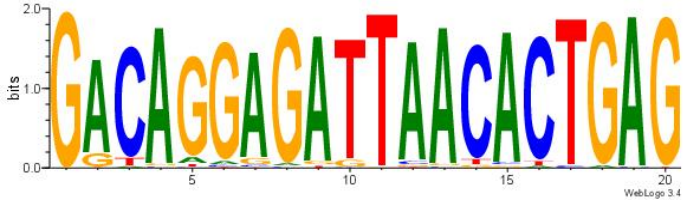

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.146693

Alignment:
CATTCTGGGGTCTGGAGGAY
-AGGAGRCMCTCTGCCTGGC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

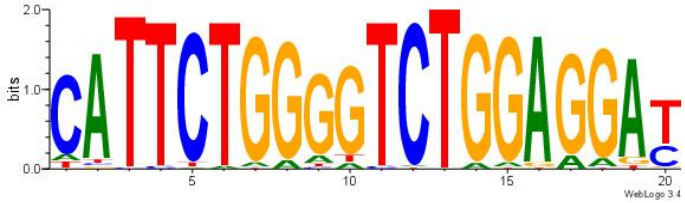

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

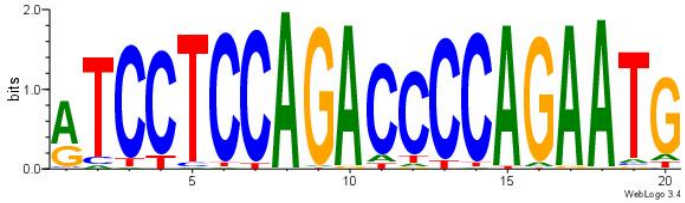

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.146776

Alignment:

```
TGGCTTCACCCAGTGGATCC
AGGAGRCMCTCTGCCTGGC-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

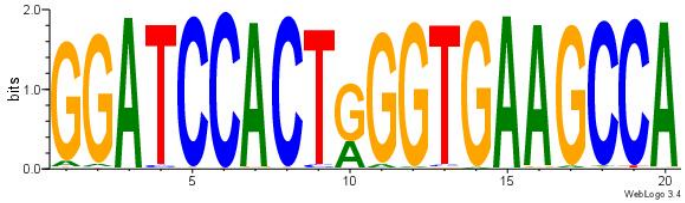

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

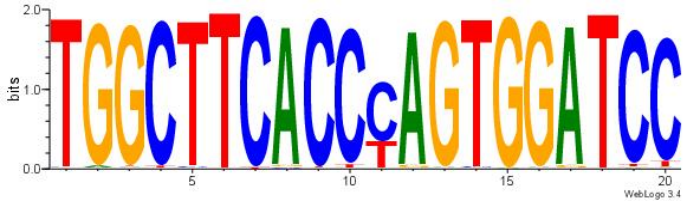

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.147738

Alignment:

```
GGCATCACGGATCCTACCAA
-GCCAGGCAGAGRGKCTCCT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

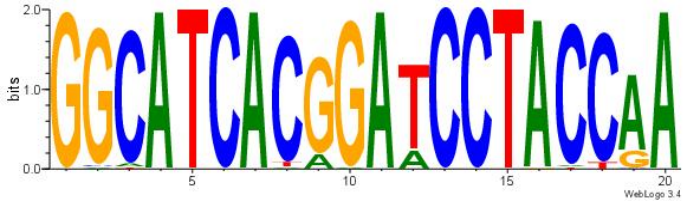

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

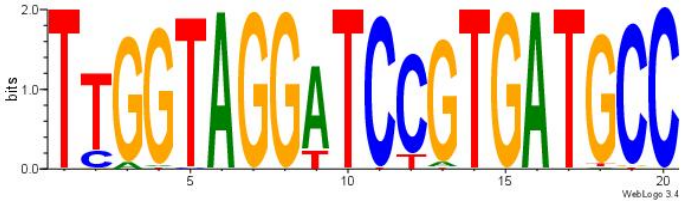

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.147993

Alignment:
TCCAAATGGGAGAAATTGGC
-GCCAGGCAGAGRGKCTCCT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

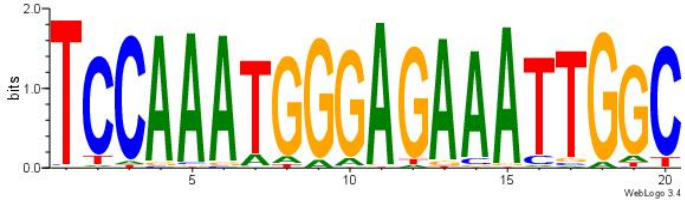

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

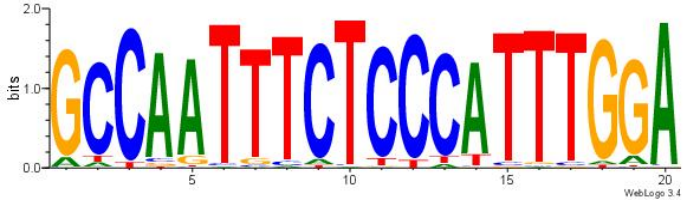

Dataset #: 1 Motif ID: 44 Motif name: Motif 44

Original motif Consensus sequence: AATCGCTTGAACC

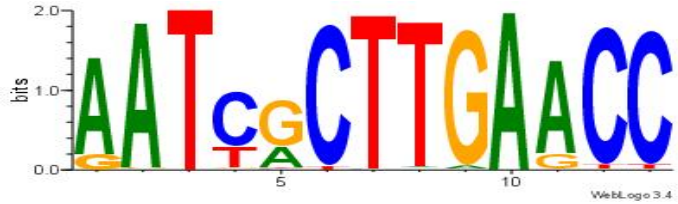

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

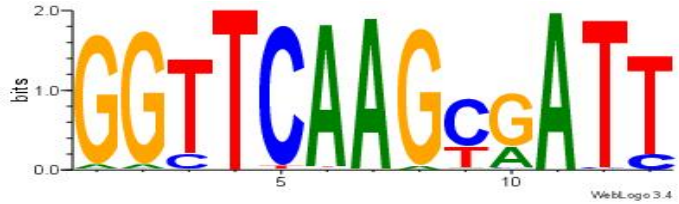

Best Matches for Motif ID 44 (Highest to Lowest)

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0728317

Alignment:

```
GAAAGGGAACTCCCTGACCC
-------AATCGCTTGAACC
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

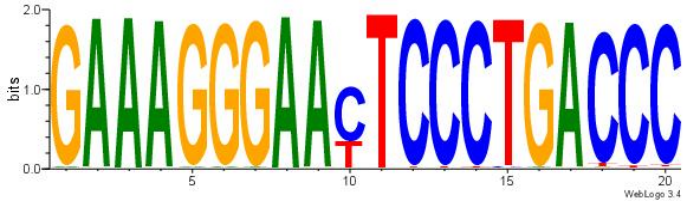

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

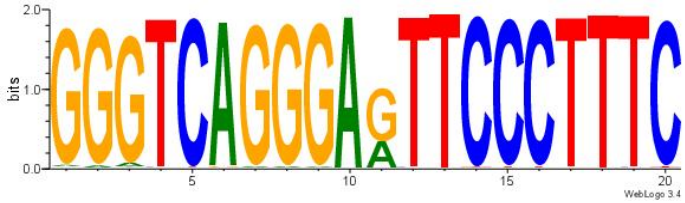

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0766097

Alignment:

ATGTGGAGGTGGAAGACAGT
-------GGTTCAAGCGATT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

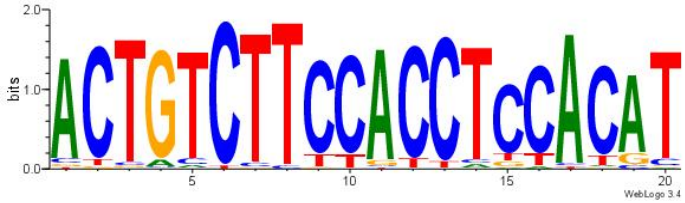

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

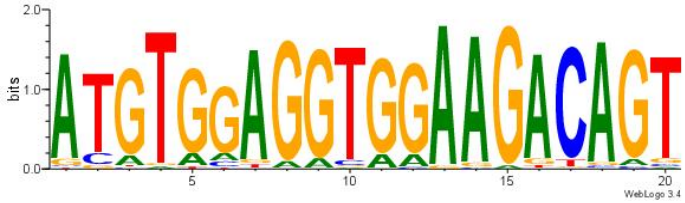

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0779699

Alignment:
TGAGKCAATTAAACCTCTT
--AATCGCTTGAACC----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

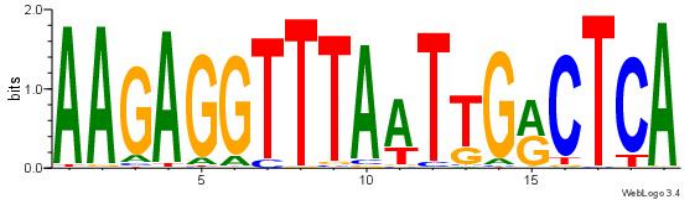

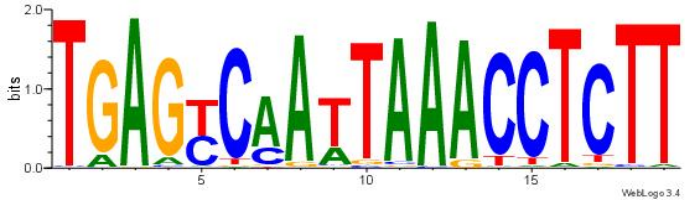

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0810095

Alignment:

```
TAGATAATAGCTCCAGCTTT
-----AATCGCTTGAACC--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

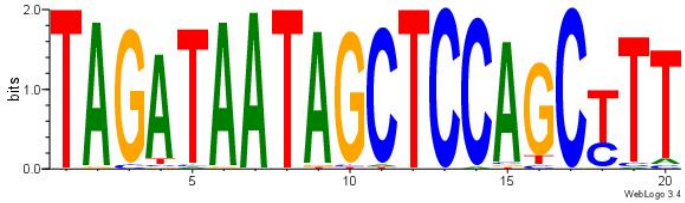

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

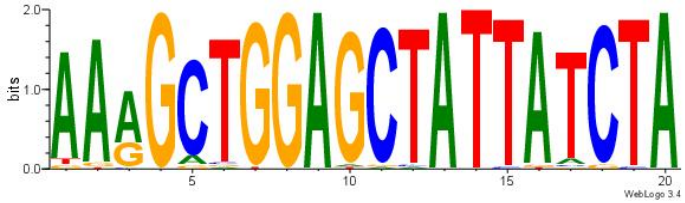

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.081536

Alignment:

```
GGTTCATCTCACTAGGGAGT
-------GGTTCAAGCGATT
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

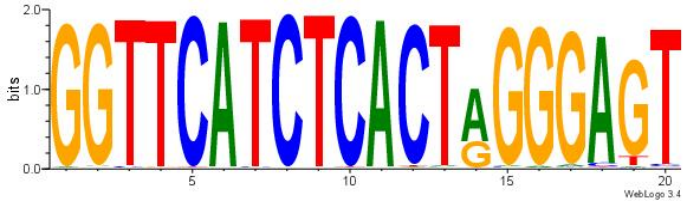

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

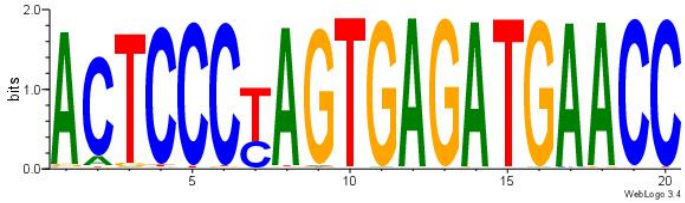

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.0874778

Alignment:
ACTCAGCCCRCCTGCACCC
-----AATCGCTTGAACC-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

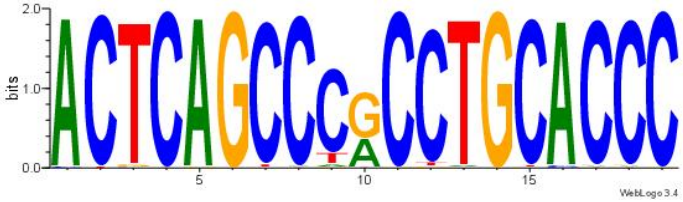

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

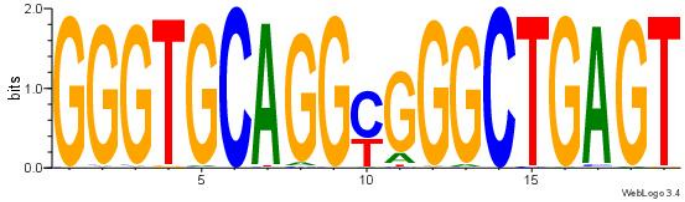

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0886438

Alignment:
HAGTGGKATTGCTGGATCAT
------AATCGCTTGAACC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

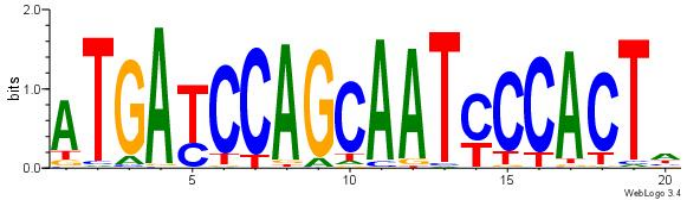

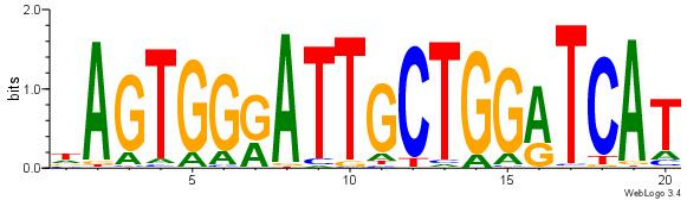

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0890764

Alignment:

```
CCCTGCTAGAACCTCCAA
AATCGCTTGAACC-----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

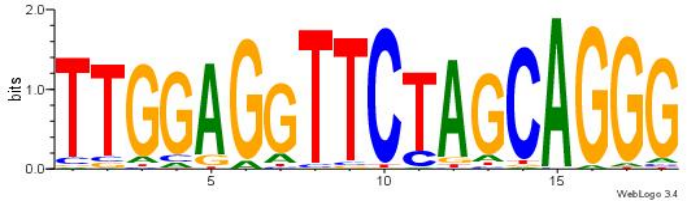

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0937378

Alignment:

```
GAAHCAACCKAAKTGTCCAT
GGTTCAAGCGATT-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

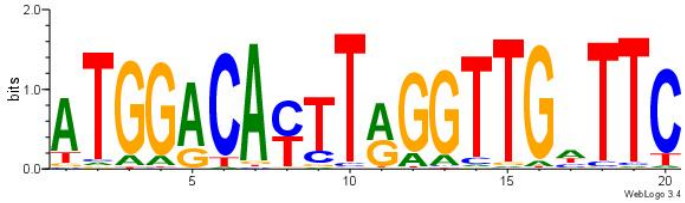

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

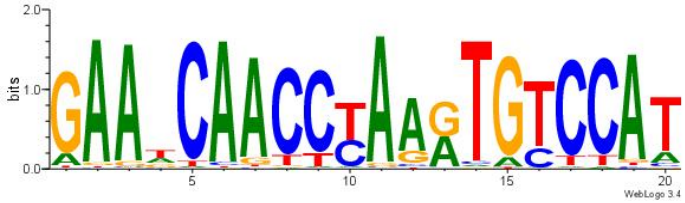

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.0938177

Alignment:
GCGMGCGGGAACCGGGGCT
AATCGCTTGAACC------

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

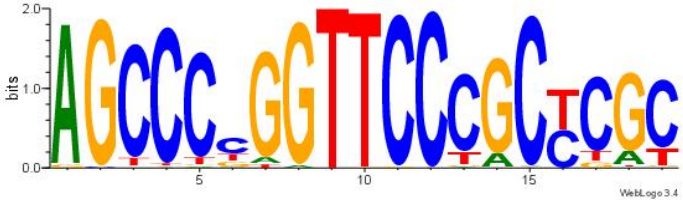

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

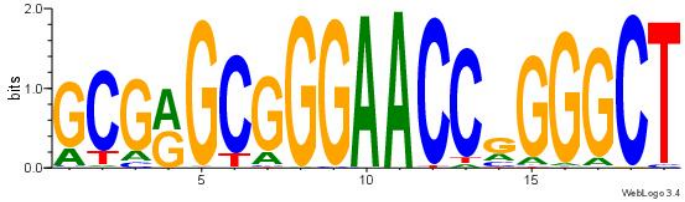

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0939395

Alignment:
AATGAGTTAAGACTTTG
AATCGCTTGAACC----

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

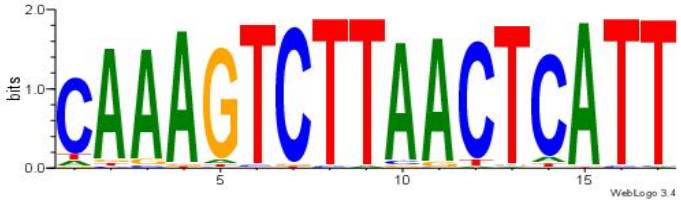

Dataset #:	1
Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0951151

Alignment:

```
AGGTCAGGAGTTC
GGTTCAAGCGATT
```

Original motif Consensus sequence: AGGTCAGGAGTTC

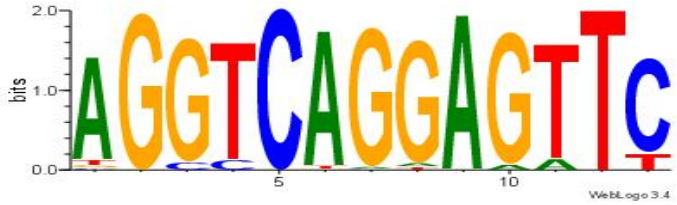

Reverse complement motif Consensus sequence: GAACTCCTGACCT

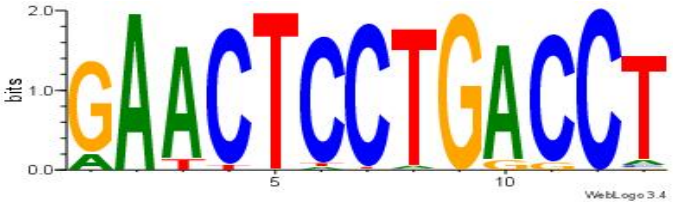

Dataset #:	1
Motif ID:	6

Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0956664

Alignment:

```
GCTCACTGCAASCTC
AATCGCTTGAACC--
```

Original motif Consensus sequence: GCTCACTGCAASCTC

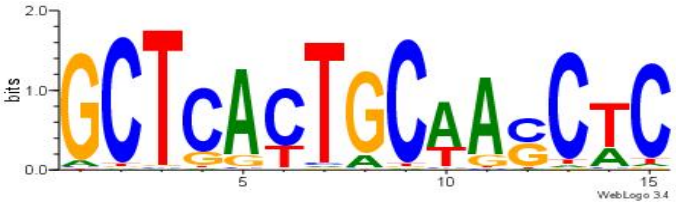

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

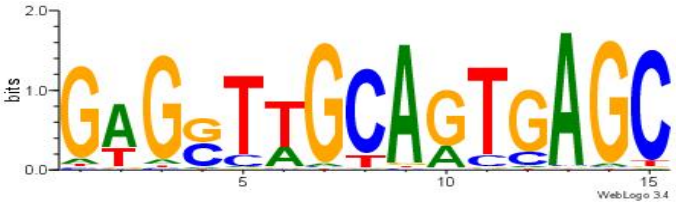

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0975344

Alignment:
AWTKKTGGTTKCCAGKGGCT
-------GGTTCAAGCGATT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

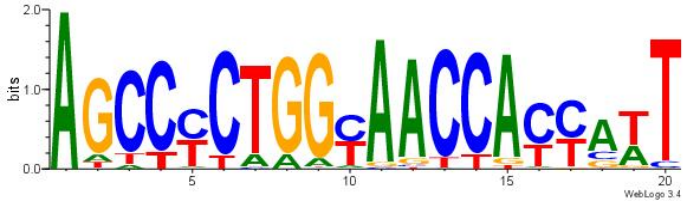

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

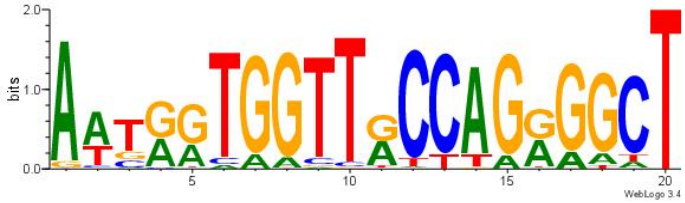

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0975373

Alignment:
GAAATTGACTTCCTCCT
---AATCGCTTGAACC-

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence:
GAAATTGACTTCCTCCT

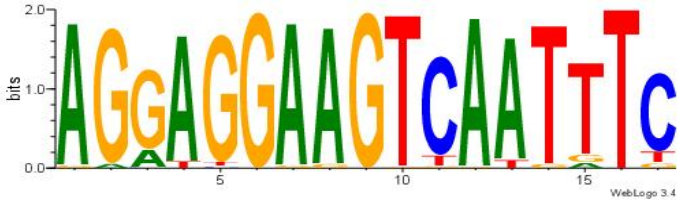

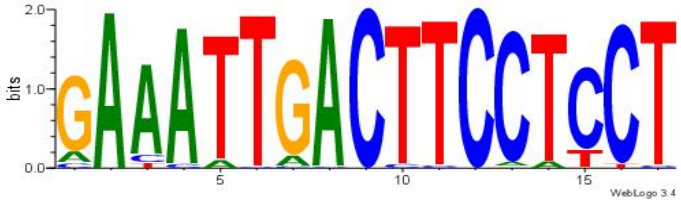

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0985803

Alignment:

```
GGATCCACTGGGTGAAGCCA
-----AATCGCTTGAACC--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

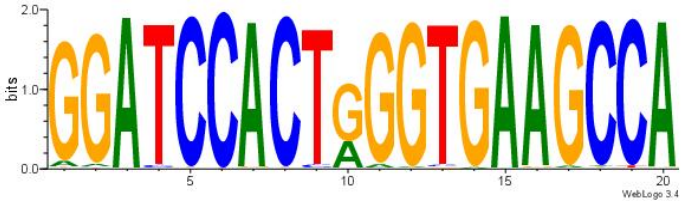

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

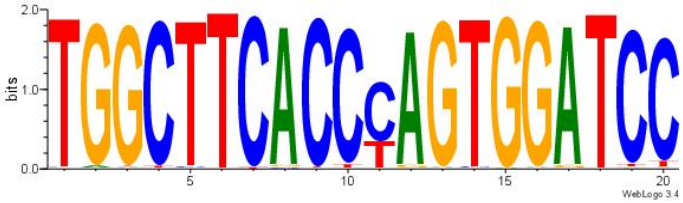

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0987192

Alignment:

```
AGAAATCGAGCRCAGCGCCG
---AATCGCTTGAACC----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

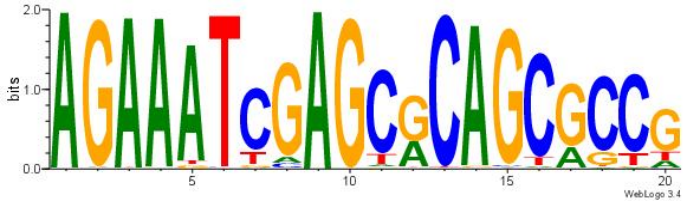

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

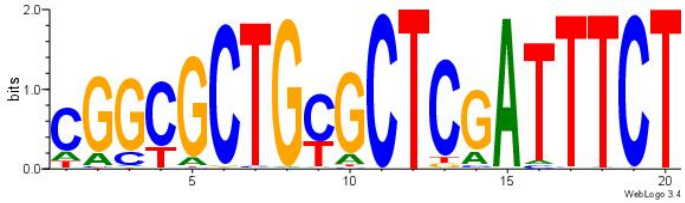

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.0997737

Alignment:
CCTAGATTTCAGARGATGT
-----GGTTCAAGCGATT-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

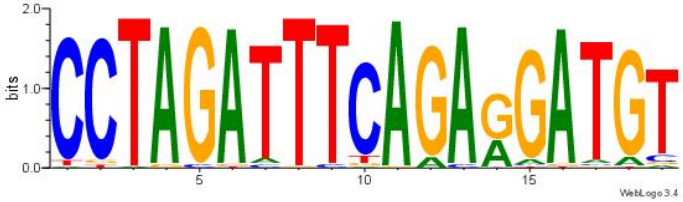

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

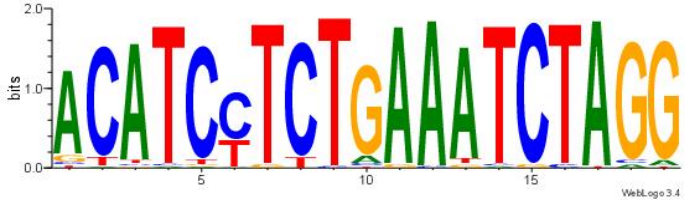

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 13
Similarity score: 0.100045

Alignment:
GTGTCKGGAGTTTGTTCCTT
GGTTCAAGCGATT-------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

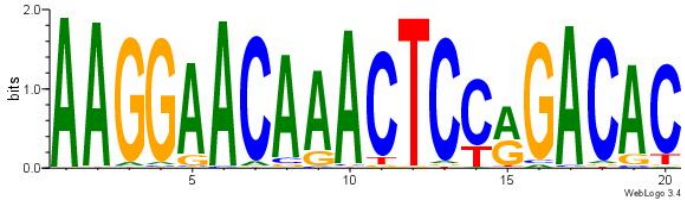

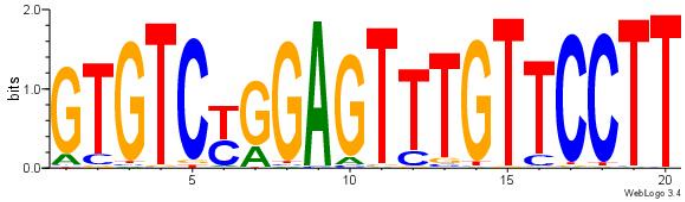

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10048

Alignment:

```
GCCCTCACCAGAAGC
--AATCGCTTGAACC
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

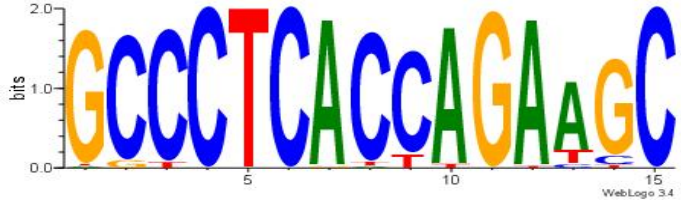

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

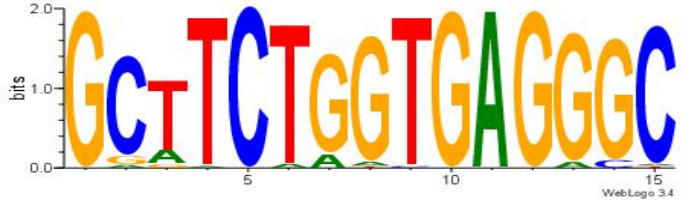

Dataset #:	1
Motif ID:	86

Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.100584

Alignment:

```
VMATTTAKTGAGCACCTACT
-AATCGCTTGAACC------
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

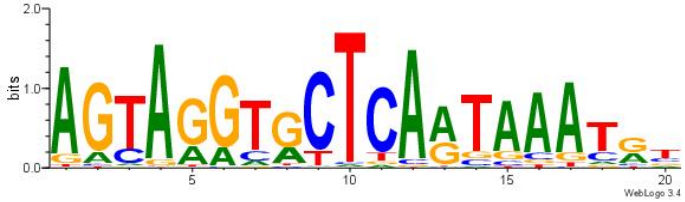

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

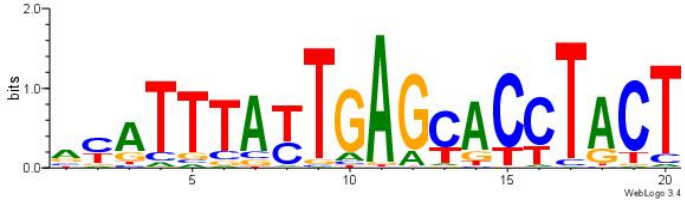

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.100774

Alignment:
AAAATCACAAGCATTCCTAT
--AATCGCTTGAACC-----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

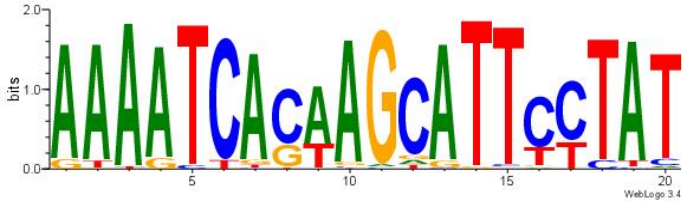

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

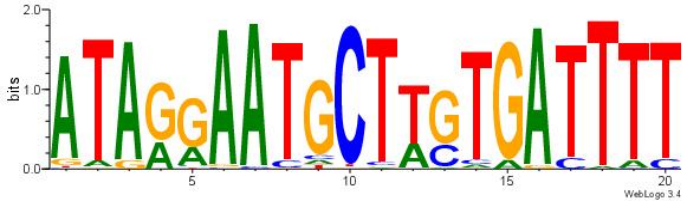

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.101017

Alignment:
GAGAACACATGGACA
--AATCGCTTGAACC

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

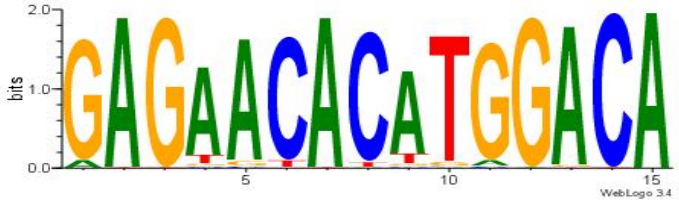

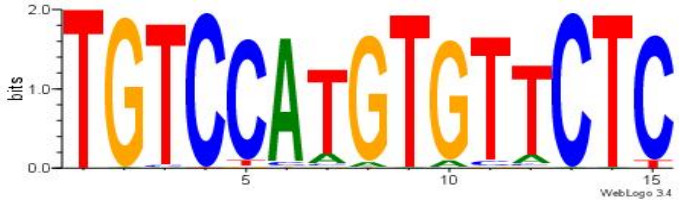

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.101914

Alignment:

```
GCAAAKGACATGATYTCATT
---AATCGCTTGAACC----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

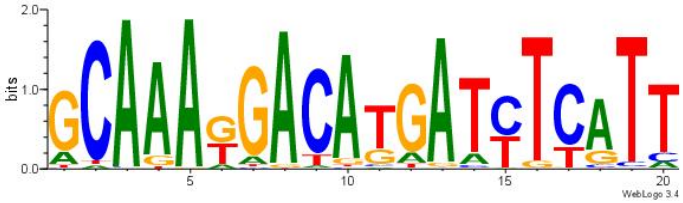

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

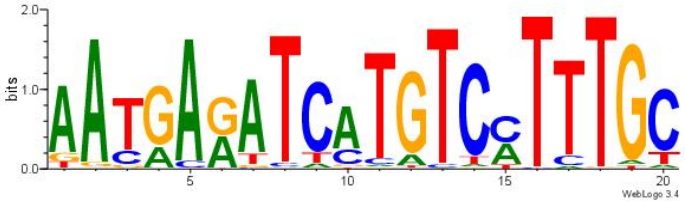

Dataset #:	1

Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.102392

Alignment:

```
GCACTGAGTGAACGA
-AATCGCTTGAACC-
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

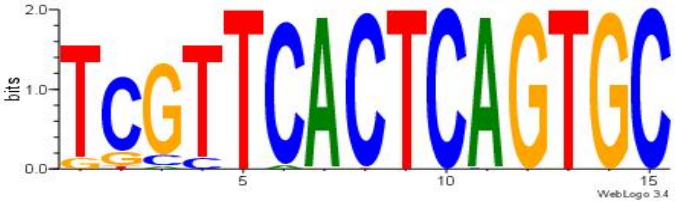

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.102698

Alignment:
CTGGGCTCCTGAGTCTGGTG
---GGTTCAAGCGATT----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

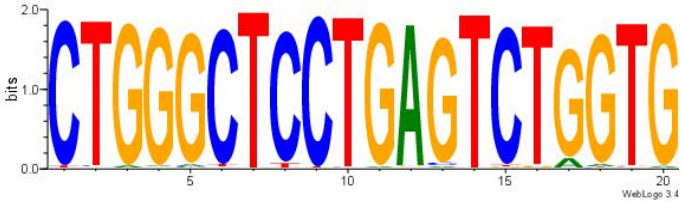

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

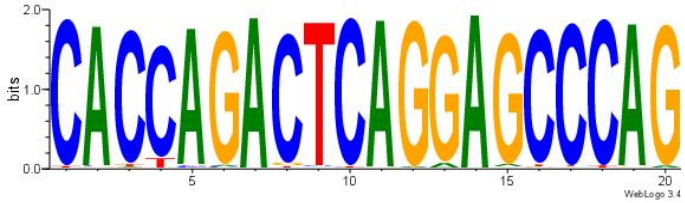

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.102743

Alignment:
GGTGGGAGAAATACCT
GGTTCAAGCGATT---

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence:
GGTGGGAGAAATACCT

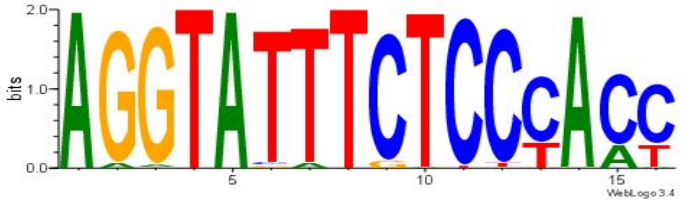

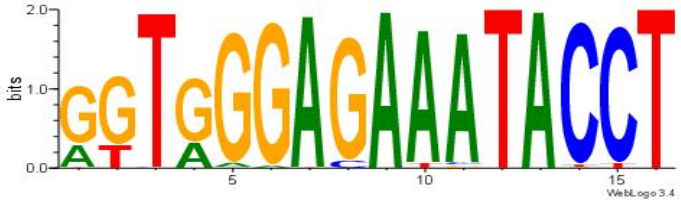

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.102811

Alignment:

```
TGGATGGATGGATGGAT
-GGTTCAAGCGATT---
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

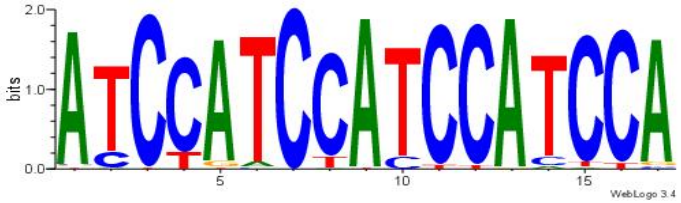

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.103177

Alignment:

```
AGGTCCTTCAGGAGGTATTC
----GGTTCAAGCGATT---
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

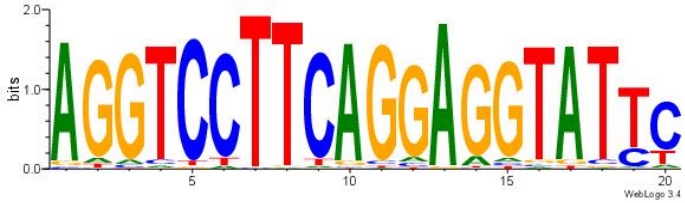

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

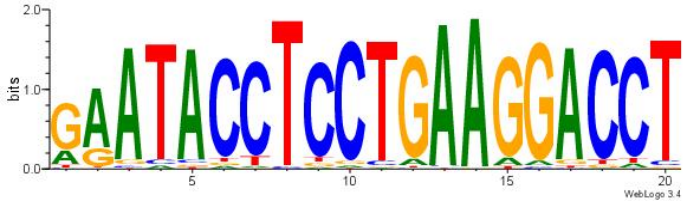

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.103369

Alignment:
CATTCTGGGGTCTGGAGGAY
-------GGTTCAAGCGATT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

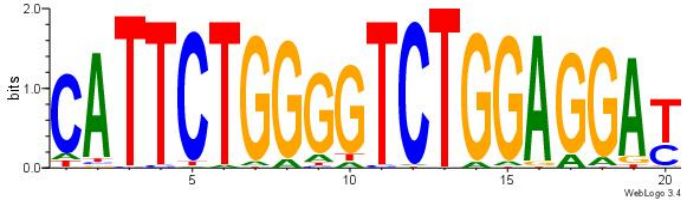

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

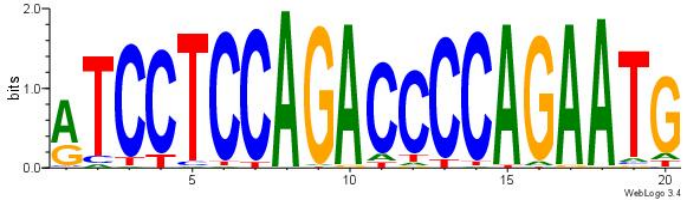

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.103478

Alignment:
CMCAGTTCACAATAGGGTT
---GGTTCAAGCGATT---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

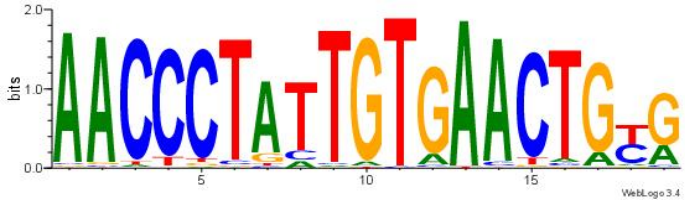

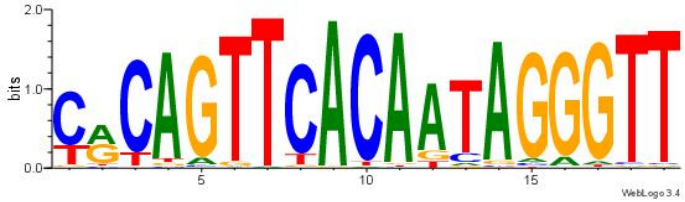

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.103757

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-------GGTTCAAGCGATT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

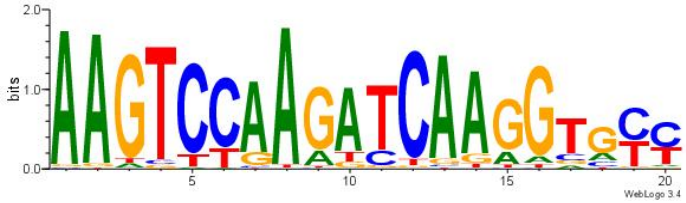

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

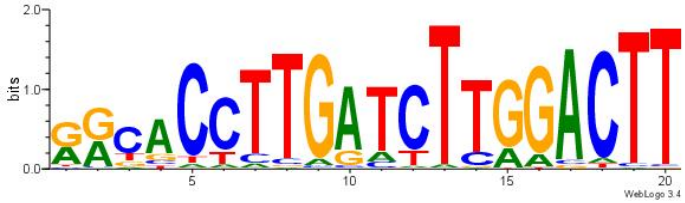

Dataset #: 1

Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.103894

Alignment:

```
ACAGTTCTGGAGGCT
--GGTTCAAGCGATT
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

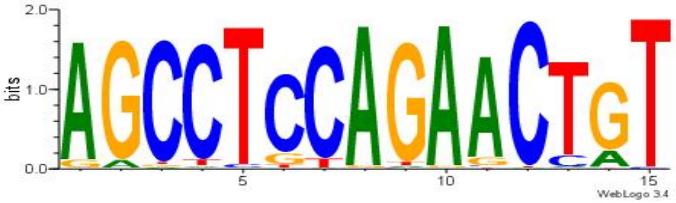

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.103931

Alignment:
GGCAATGCCTCGCCCTGCTT
----AATCGCTTGAACC---

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

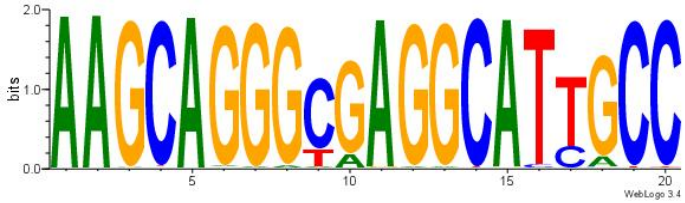

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

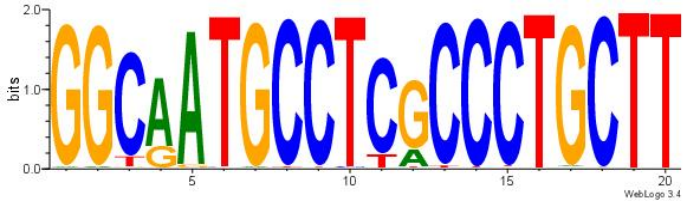

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.104341

Alignment:
AAGCTCGAACTGGGTGGAGC
-------AATCGCTTGAACC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

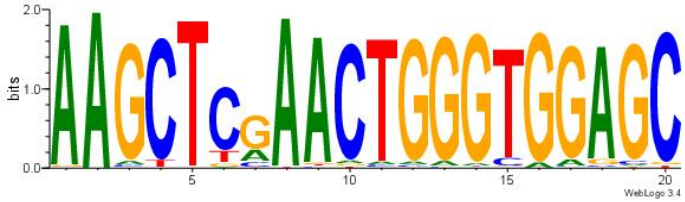

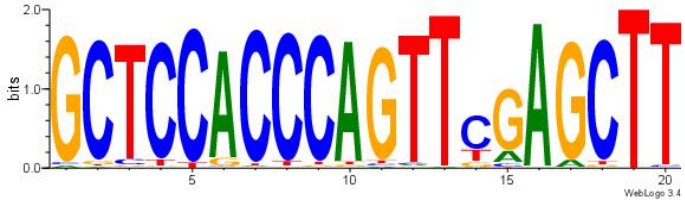

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.106093

Alignment:

```
AACAACASACACTGGGGCCT
------AATCGCTTGAACC-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

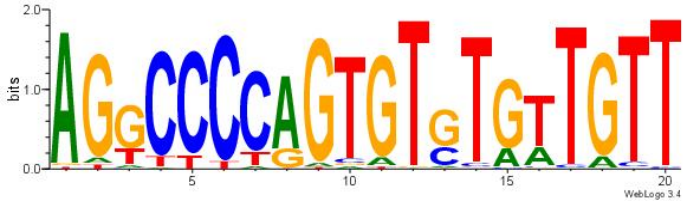

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

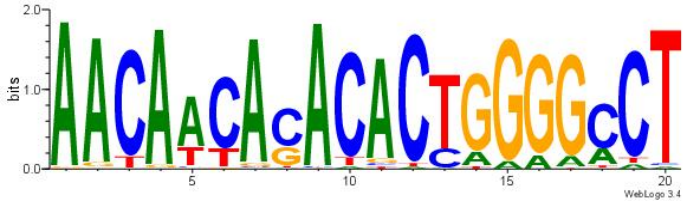

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106388

Alignment:

```
GCCGTTTKTTAAGCCCGTY
-GGTTCAAGCGATT-----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

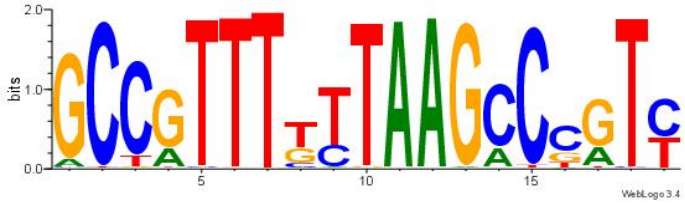

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

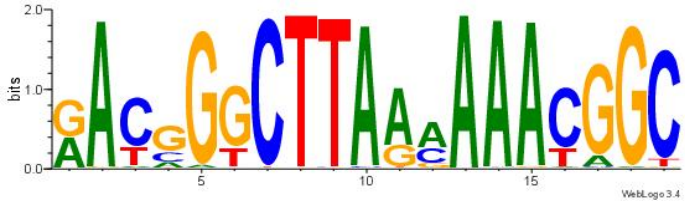

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.106451

Alignment:
AGGAGCCCCTCHGCCCR
--AATCGCTTGAACC--

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

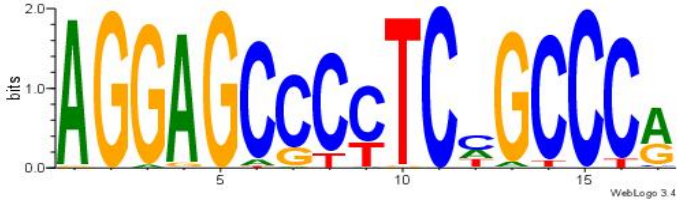

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.10724

Alignment:
AGGAGCGCCTCTKCCCGGC
--AATCGCTTGAACC----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

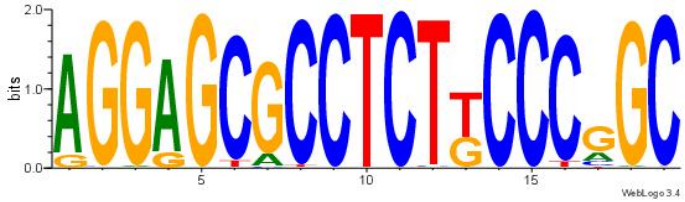

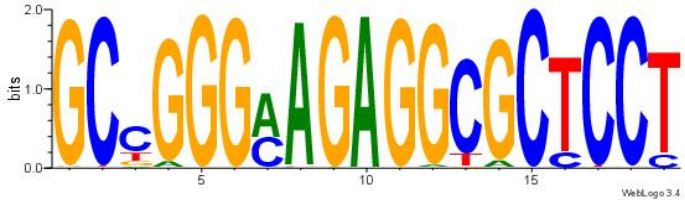

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.107485

Alignment:

```
ACATGCTACAACAT
AATCGCTTGAACC-
```

Original motif Consensus sequence: ACATGCTACAACAT

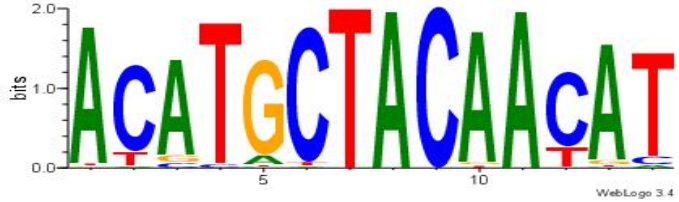

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

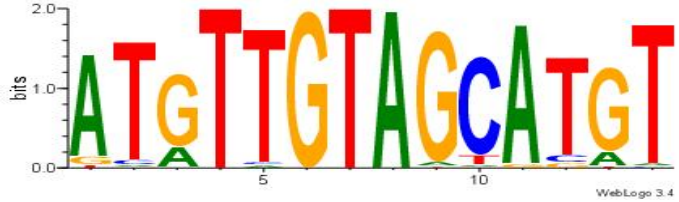

Dataset #:	1
Motif ID:	55

Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.107683

Alignment:

```
ATGGCTGAATAKTATTCCAT
--GGTTCAAGCGATT-----
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

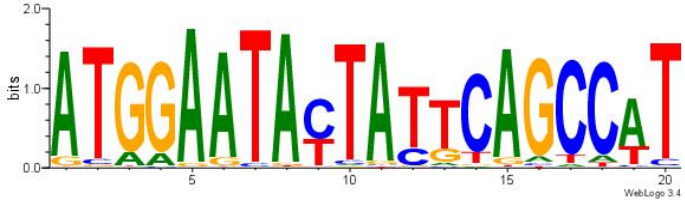

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

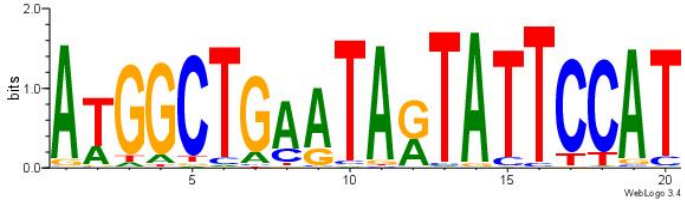

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.109192

Alignment:
TCTGGAGTGGACCTCCAGCA
AATCGCTTGAACC-------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

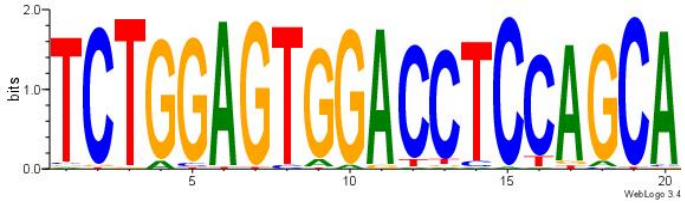

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

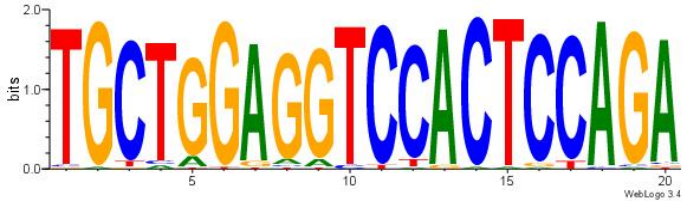

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.109921

Alignment:
CTCCTGCCTCAGCCTCCCRA
-AATCGCTTGAACC------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

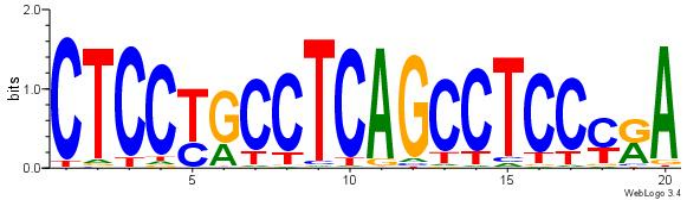

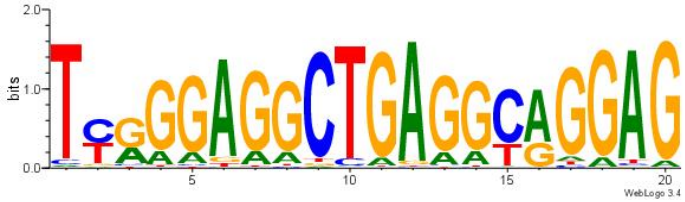

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.110132

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AATCGCTTGAACC-------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

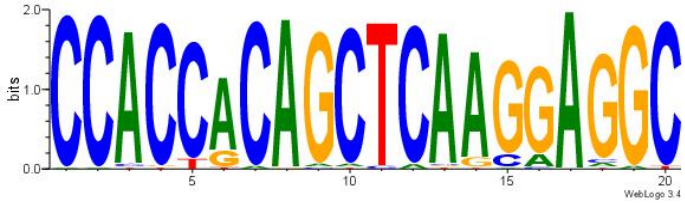

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

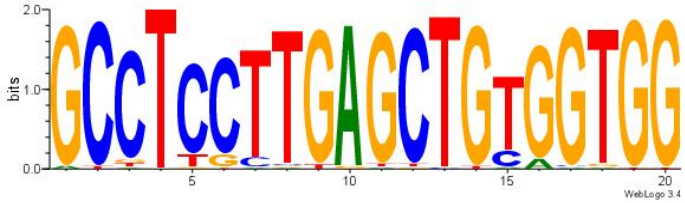

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.110496

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
------GGTTCAAGCGATT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

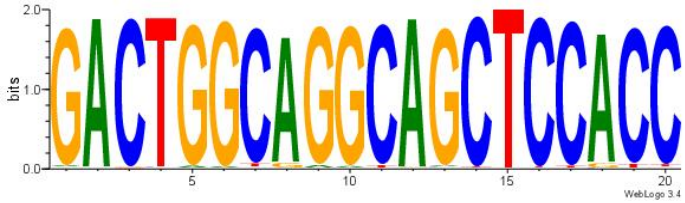

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

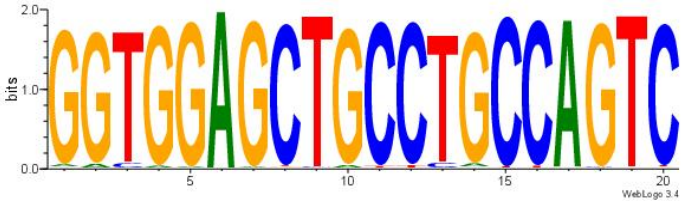

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.110945

Alignment:
AGTTCTTAAAGATGGT
---GGTTCAAGCGATT

Original motif Consensus sequence: AGTTCTTAAAGATGGT

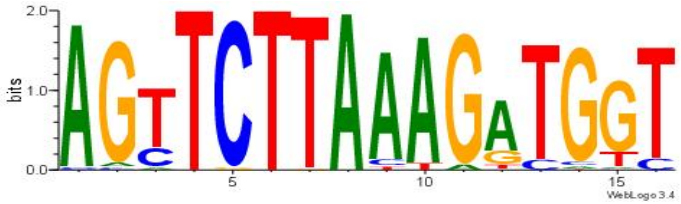

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

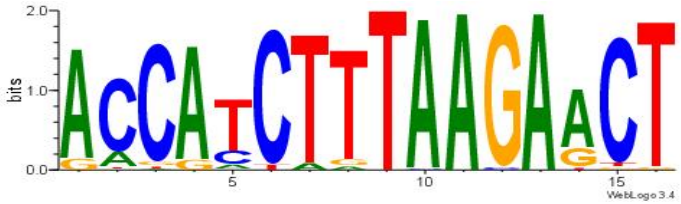

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.111108

Alignment:
GTCTCWAMAAAAAAWAMAAA
-------GGTTCAAGCGATT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

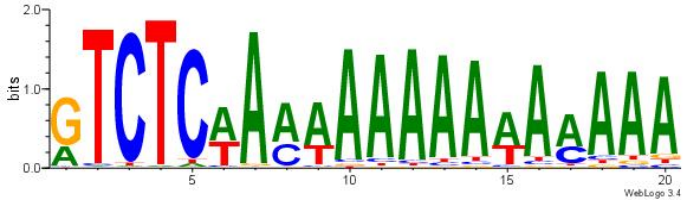

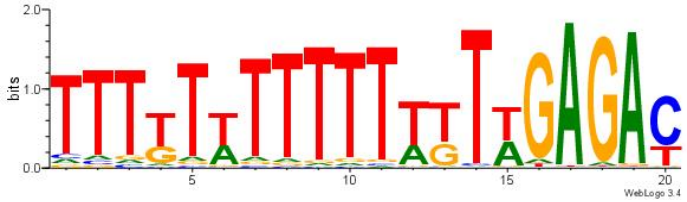

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111113

Alignment:

```
GGGRSCACAGGAGCD
--AATCGCTTGAACC
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

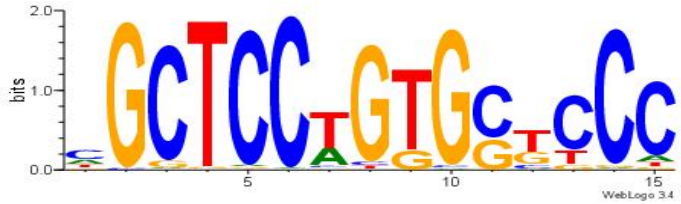

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.111135

Alignment:

```
GTAGACKGGAGCTGTTCCT
---GGTTCAAGCGATT---
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

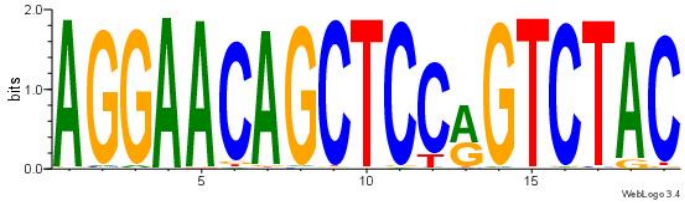

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

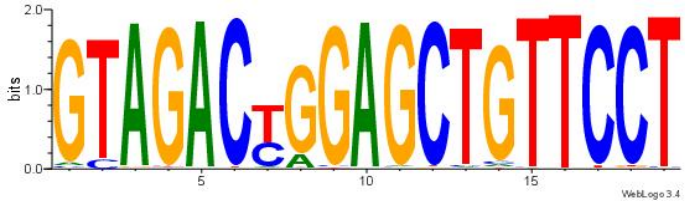

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.111166

Alignment:
GTTATTAATTGGCCTAATTT
--AATCGCTTGAACC-----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

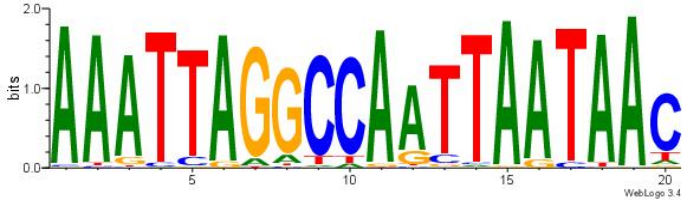

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1 Motif ID: 45 Motif name: Motif 45

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

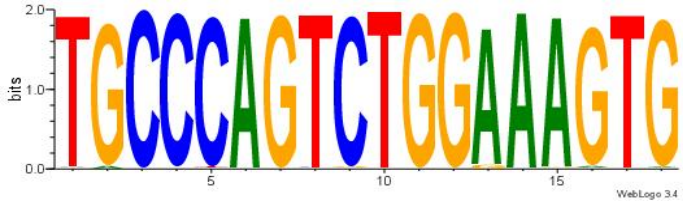

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

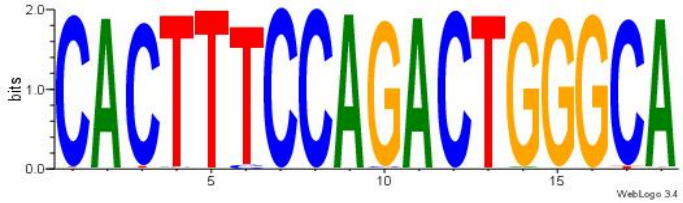

Best Matches for Motif ID 45 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0555298

Alignment:

```
CGCCCCGTCTGGGAAGTG
TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

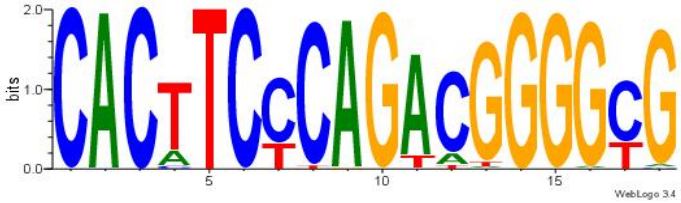

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

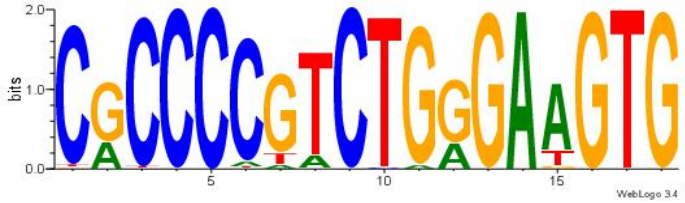

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.104002

Alignment:

TCCCTCCCGGACGGGGYGGC
CACTTTCCAGACTGGGCA--

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

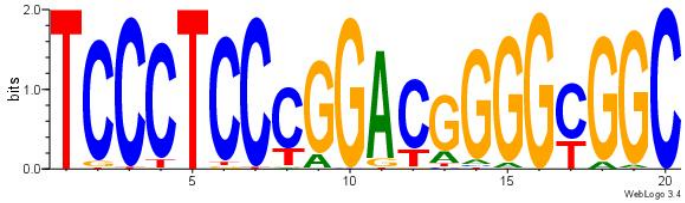

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

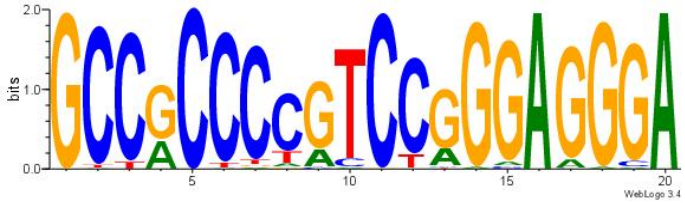

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.11381

Alignment:
AAGACCTTCCAGTGGGACAA
--CACTTTCCAGACTGGGCA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

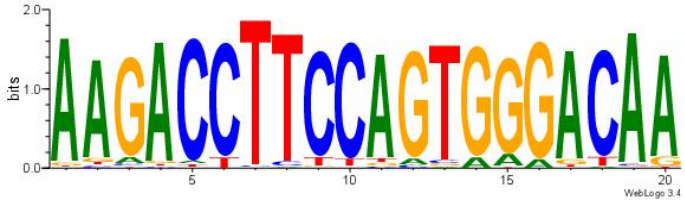

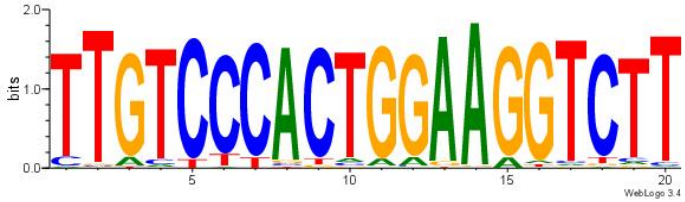

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.114247

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

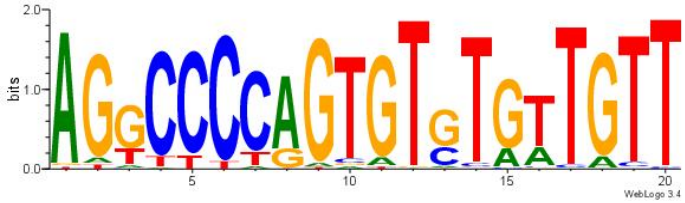

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

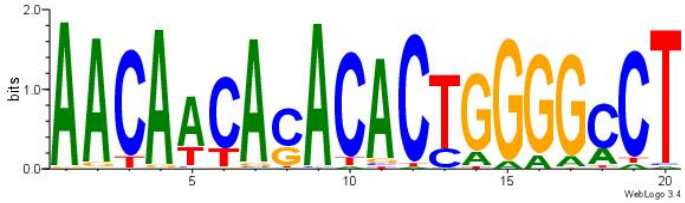

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.12083

Alignment:

```
AGAGCCAAATCATGARTGAA
--TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

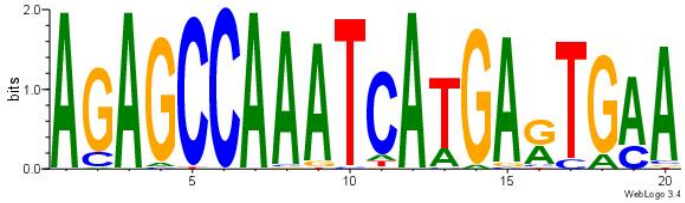

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

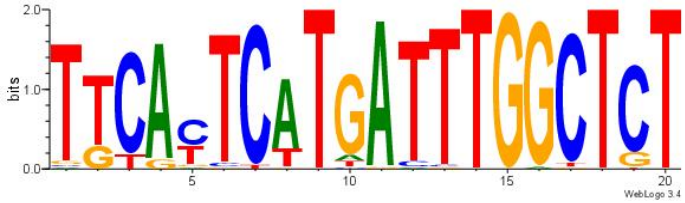

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.122949

Alignment:
AAATTACCCAGTCTCAGGTA
-CACTTTCCAGACTGGGCA-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

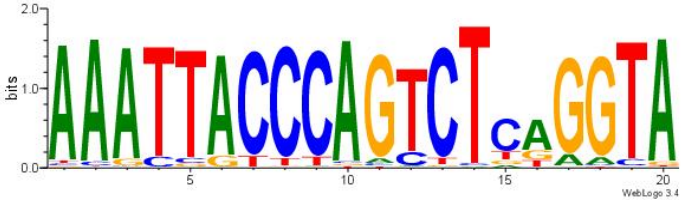

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

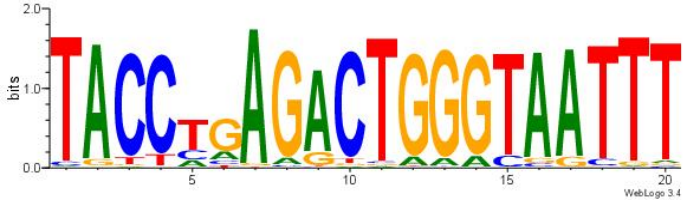

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.123334

Alignment:
GCCAATTTCTCCCATTTGGA
--CACTTTCCAGACTGGGCA

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

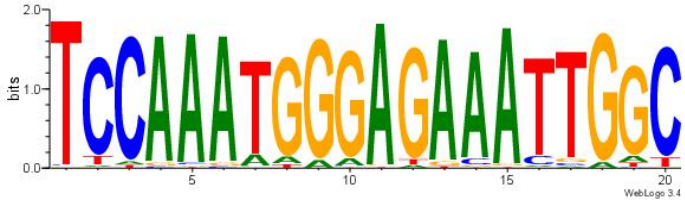

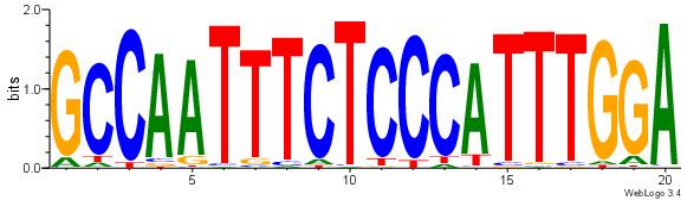

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.123936

Alignment:

```
CCTTGGCCAGCCCAGAAAG
CACTTTCCAGACTGGGCA-
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

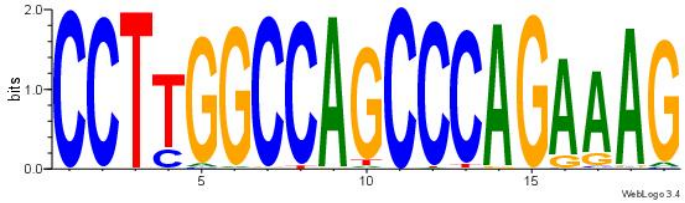

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

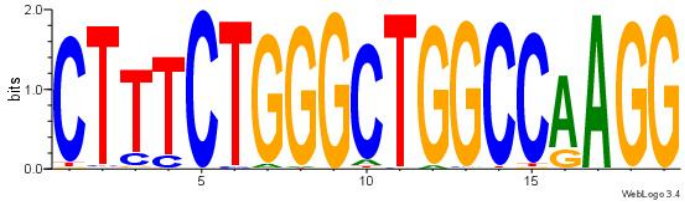

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.124689

Alignment:

```
CMCAGTTCACAATAGGGTT
CACTTTCCAGACTGGGCA-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

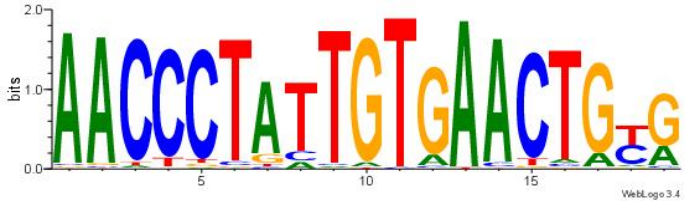

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

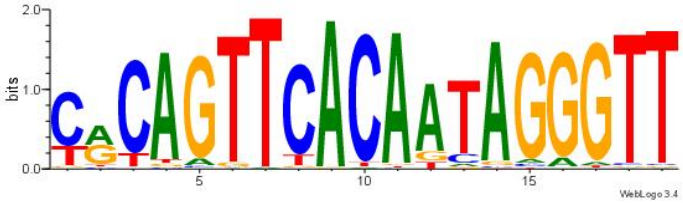

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.125199

Alignment:
AAGCTCGAACTGGGTGGAGC
-TGCCCAGTCTGGAAAGTG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

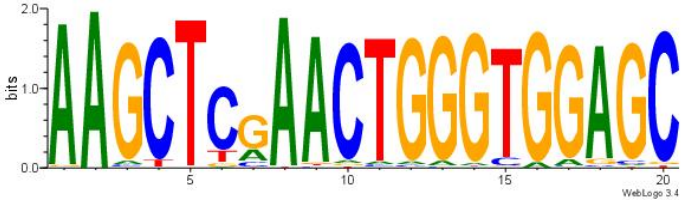

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

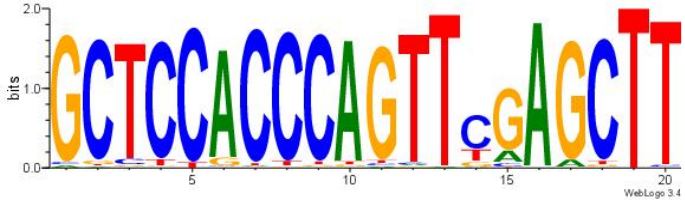

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.125803

Alignment:
CATTCTGGGGTCTGGAGGAY
CACTTTCCAGACTGGGCA--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

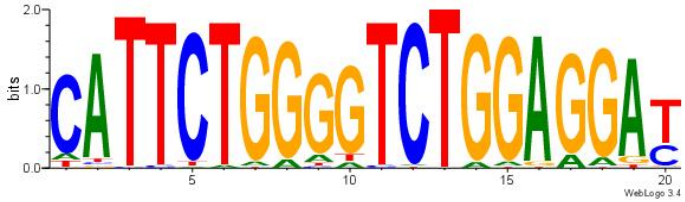

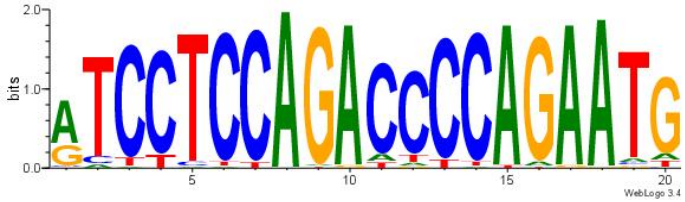

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.128635

Alignment:

```
GCTGCARTCTCGGCACTTT
TGCCCAGTCTGGAAAGTG-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

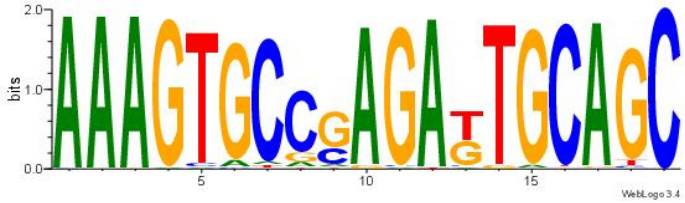

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

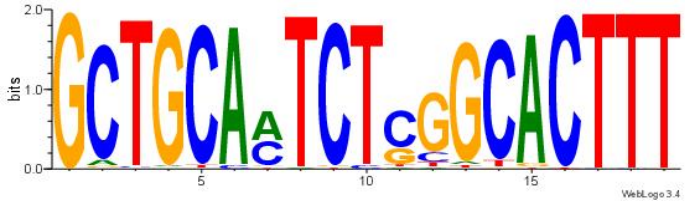

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.130158

Alignment:

```
AGCTCCCAGCGTGAGCGACG
--TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

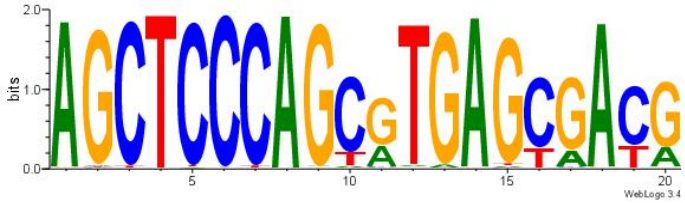

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

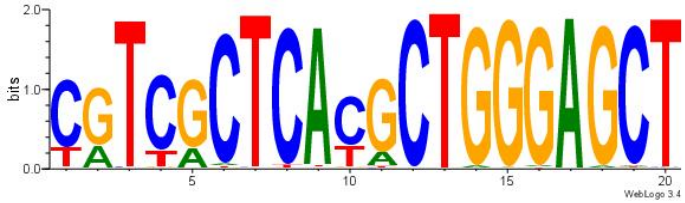

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.131099

Alignment:
TTMGTCCCAGAGGGGCACC
CACTTTCCAGACTGGGCA-

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

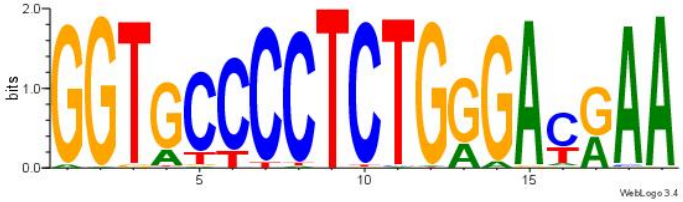

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

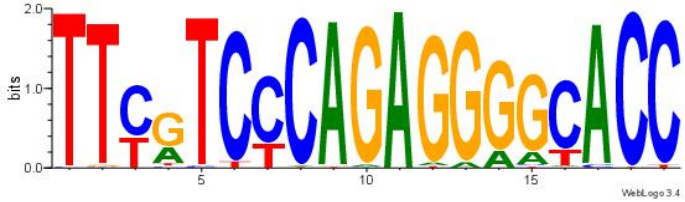

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.13175

Alignment:
ACTCCCTAGTGAGATGAACC
TGCCCAGTCTGGAAAGTG--

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

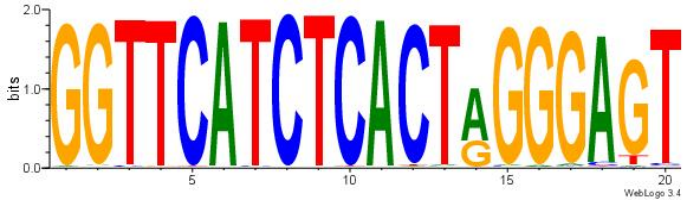

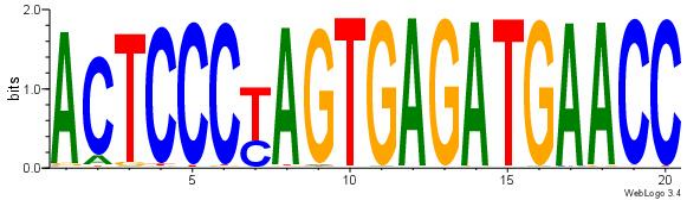

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.135176

Alignment:

```
GGATCCACTGGGTGAAGCCA
-TGCCCAGTCTGGAAAGTG-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

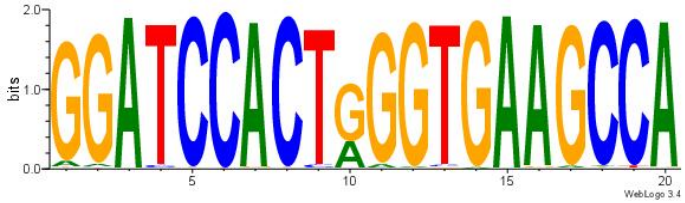

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

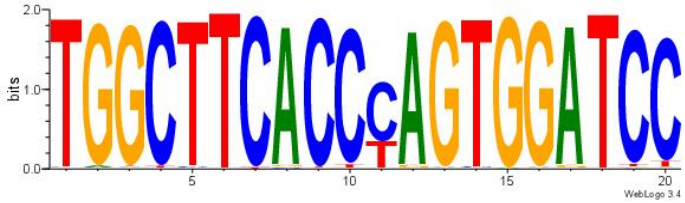

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.136141

Alignment:

```
ACCTGGAAAATCGGGTCACT
--CACTTTCCAGACTGGGCA
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

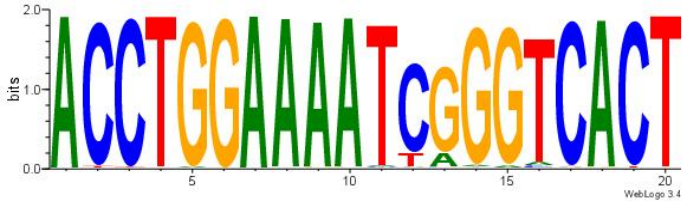

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

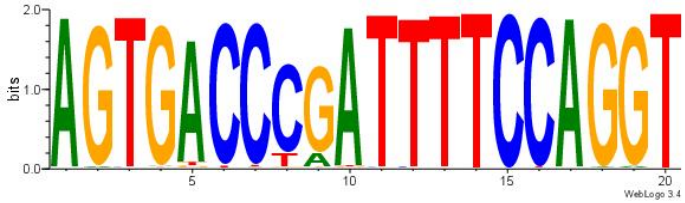

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.136468

Alignment:
AGACAGTGGGYGCAGGHCA
CACTTTCCAGACTGGGCA-

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

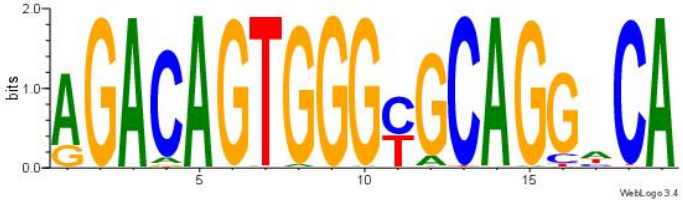

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

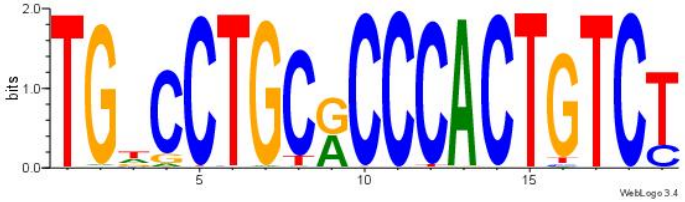

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.136666

Alignment:
GCTGGCCCGCAAGCGCCGCG
--TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

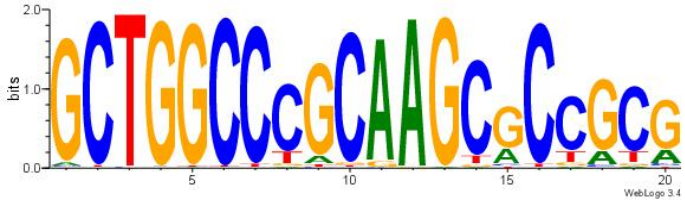

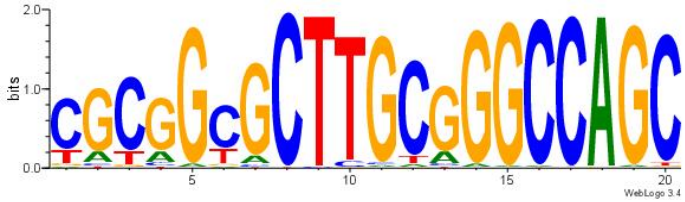

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.137605

Alignment:

```
CCCATGCAAGTCYRAAATCC
CACTTTCCAGACTGGGCA--
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

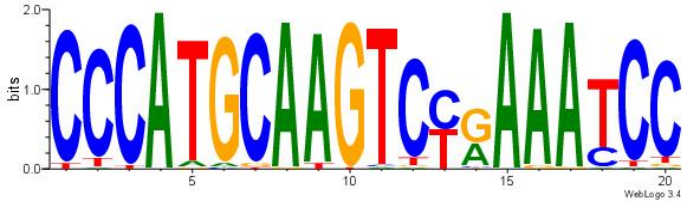

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

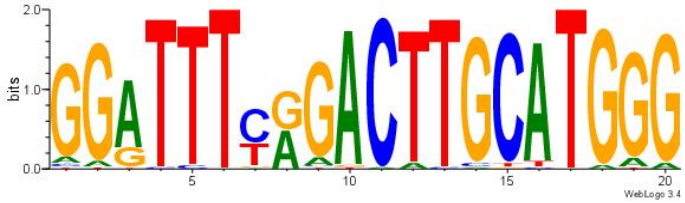

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.138255

Alignment:

```
CGCCCATCGTCTGGGATGT
-TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

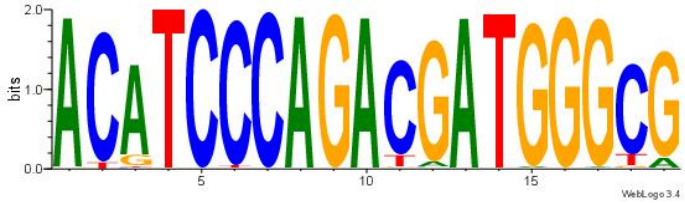

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

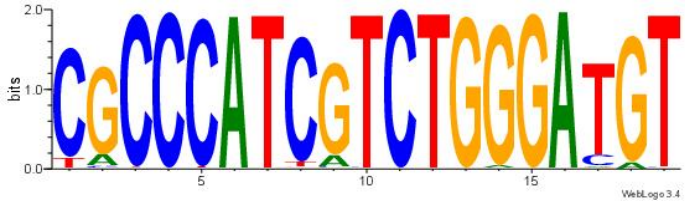

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.138351

Alignment:
CCGCTGCACTGTGGGAGCCC
-CACTTTCCAGACTGGGCA-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

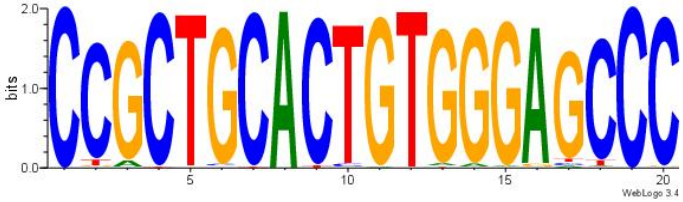

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

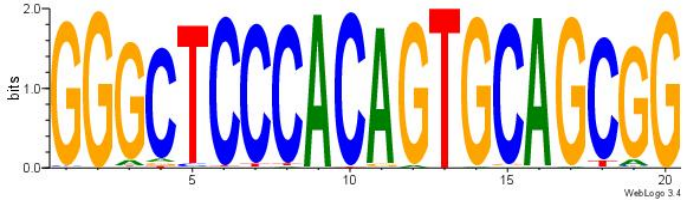

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.139552

Alignment:
AAAAGTCCACAGTCCAAAGT
CACTTTCCAGACTGGGCA--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

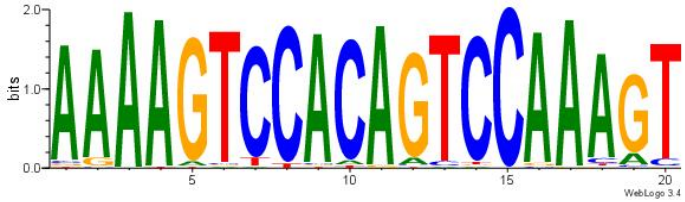

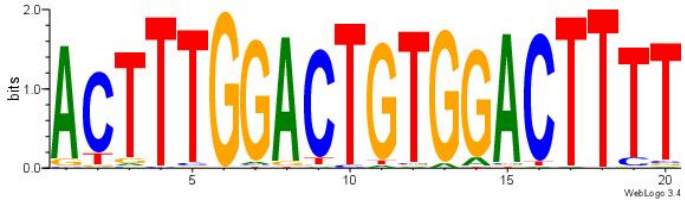

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.139873

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-CACTTTCCAGACTGGGCA-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

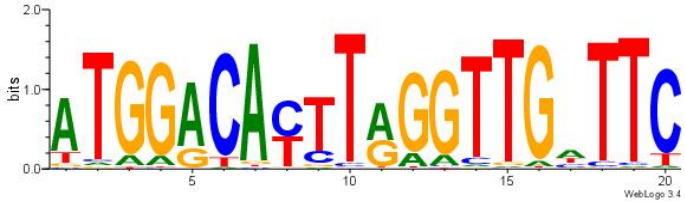

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

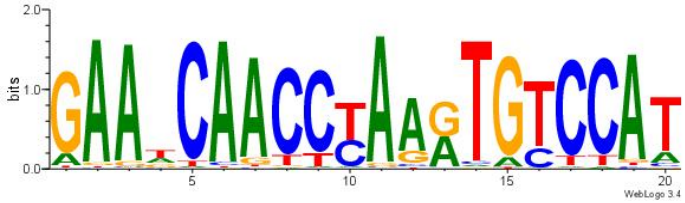

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.140156

Alignment:

```
GAAACTGCTTTGTGATGTGT
-TGCCCAGTCTGGAAAGTG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

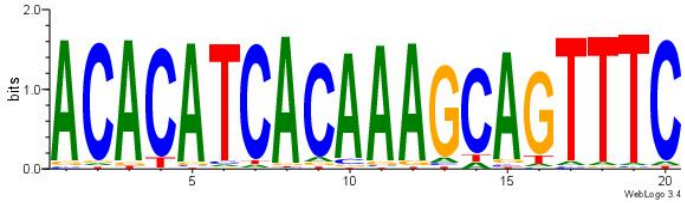

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

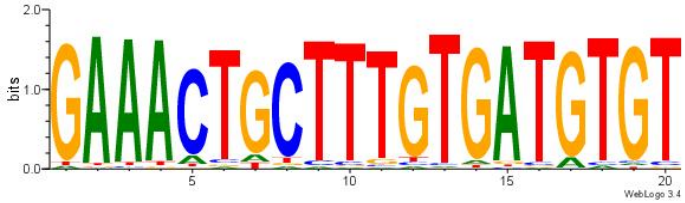

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.140298

Alignment:
GTTTAACCATTGAGGGCCAG
CACTTTCCAGACTGGGCA--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

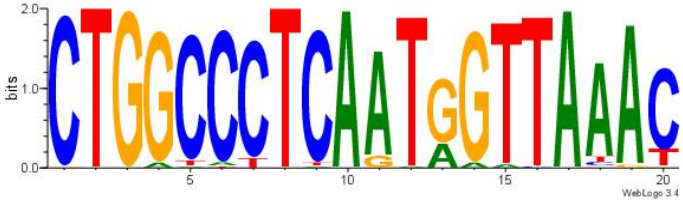

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

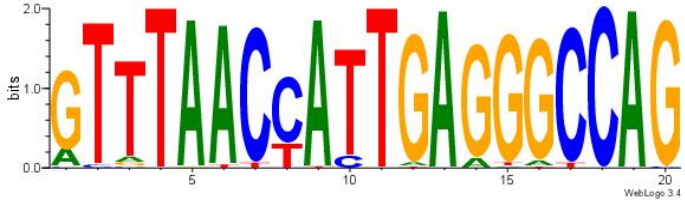

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.140866

Alignment:
GTGGCCCTCTTCTCACAGCT
--TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

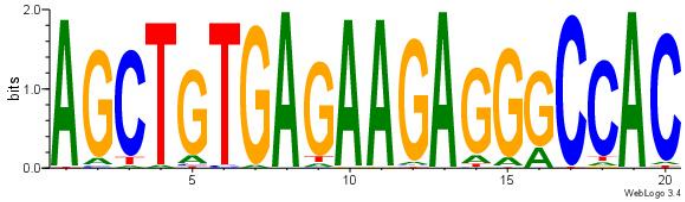

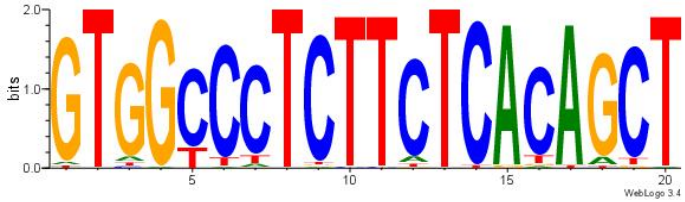

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.141091

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-TGCCCAGTCTGGAAAGTG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

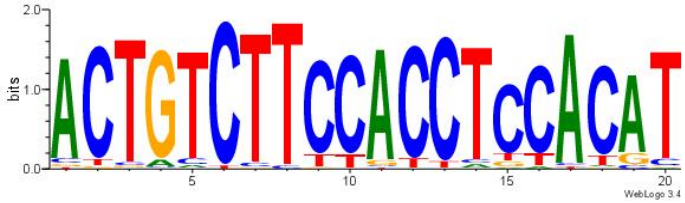

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

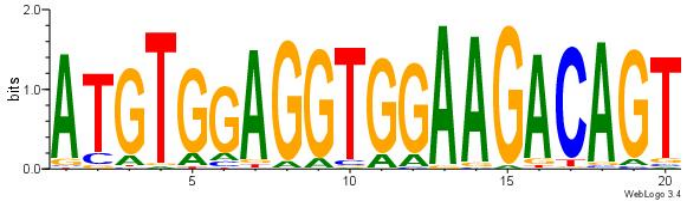

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.142156

Alignment:

```
CCTGCCATTGCYSAGGCTTG
--TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

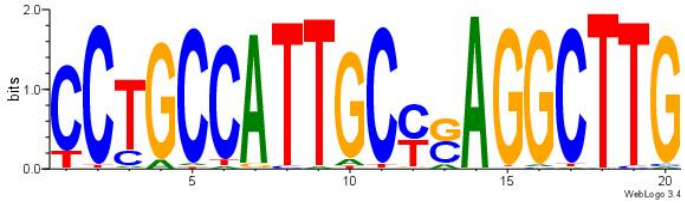

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

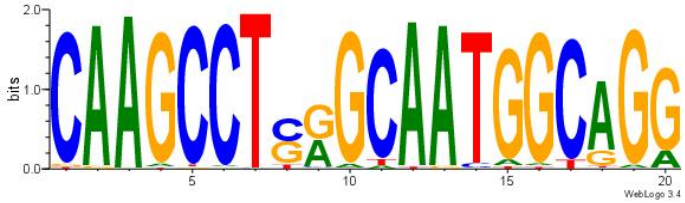

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.142282

Alignment:
CGAGCCTCCCCGAYGAGCGC
-CACTTTCCAGACTGGGCA-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

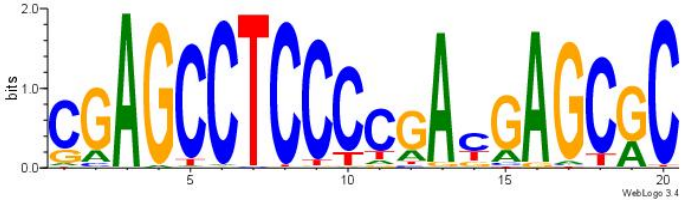

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

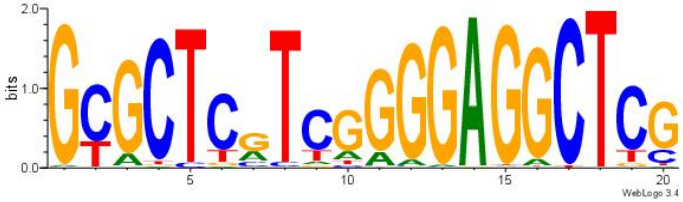

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.142818

Alignment:
GCGMGCGGGAACCGGGGCT
-CACTTTCCAGACTGGGCA

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

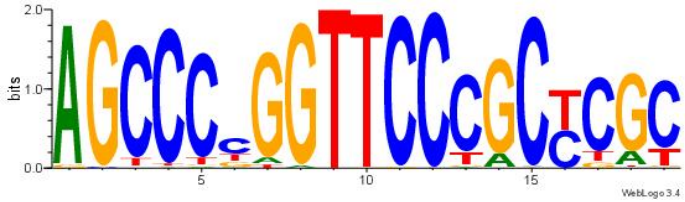

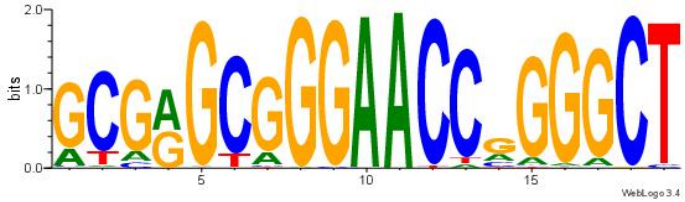

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.14288

Alignment:

```
GTTGTGAGGATTAAATGAG
-TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

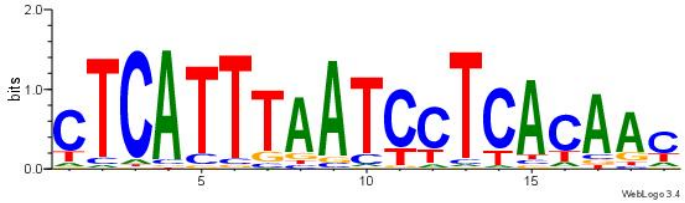

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

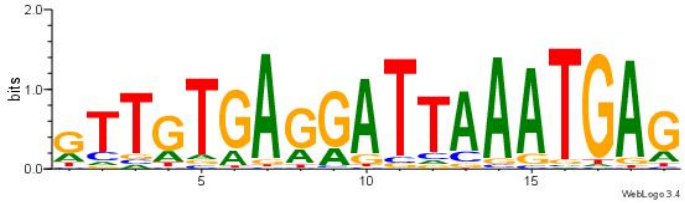

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.143251

Alignment:

```
CATTTGGGAGCCCATTGA
CACTTTCCAGACTGGGCA
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

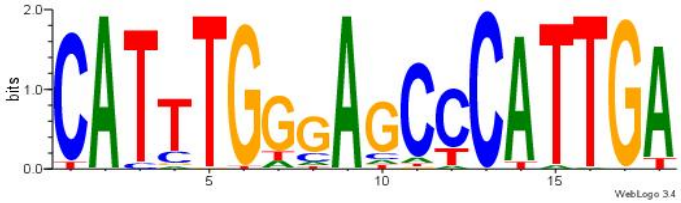

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

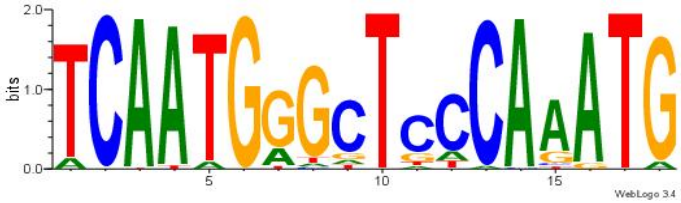

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.143812

Alignment:
AATCAACCCTGGYRATCAAT
TGCCCAGTCTGGAAAGTG--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

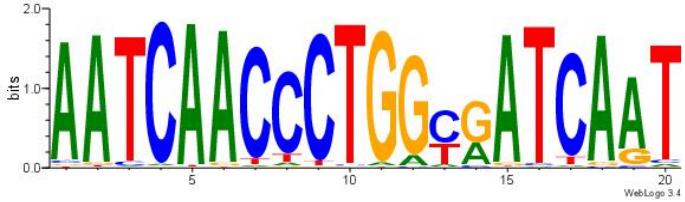

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

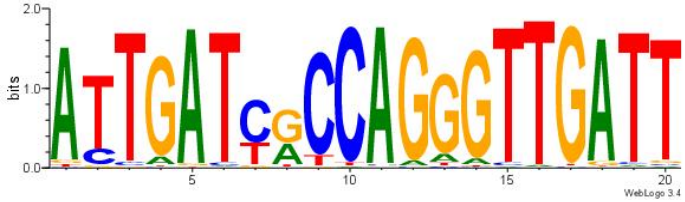

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.144286

Alignment:
CATTTCCAWCTGAGGTAC
CACTTTCCAGACTGGGCA

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence:
GTACCTCAGWTGGAAATG

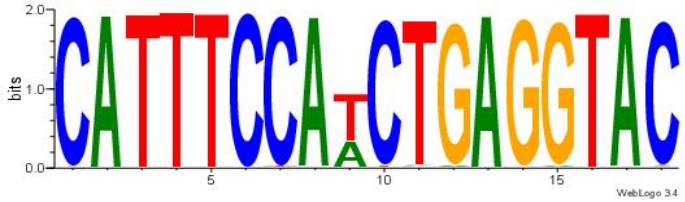

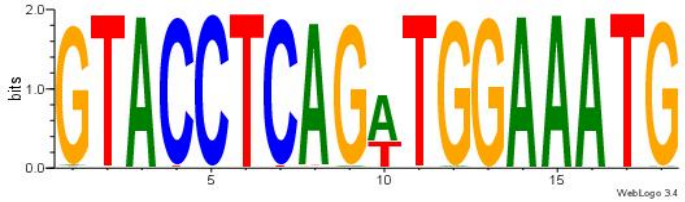

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.145248

Alignment:

```
CAACATGGATGRARCTGGAG
TGCCCAGTCTGGAAAGTG--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

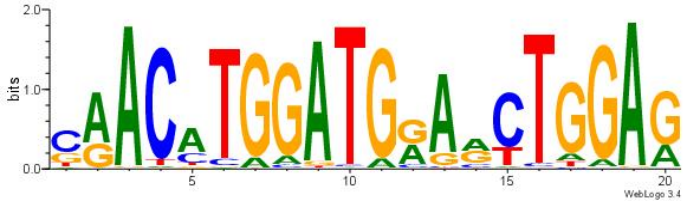

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

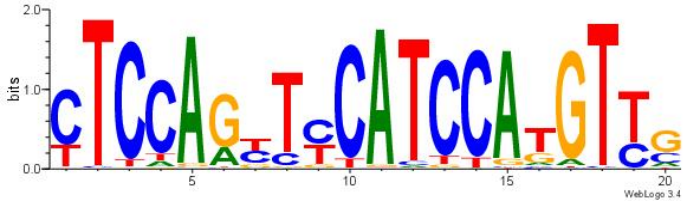

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.145322

Alignment:
GACATGAGCTGGCGCTTG
TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

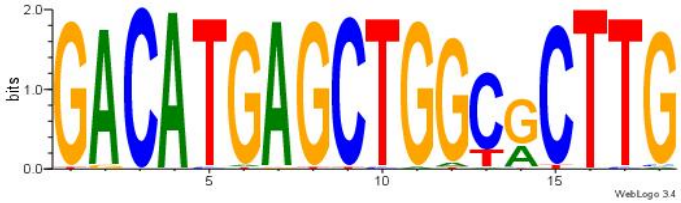

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

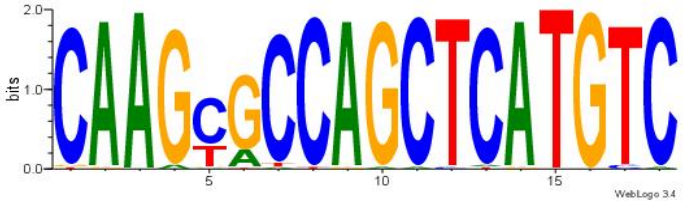

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.145738

Alignment:
TMGGGAGGCTGAGGCAGGAG
--TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

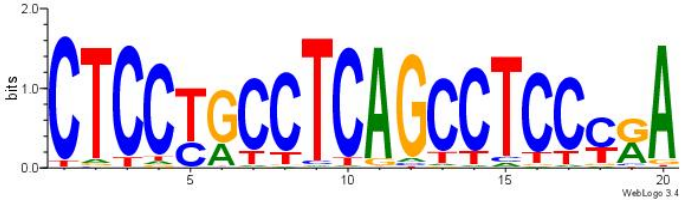

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

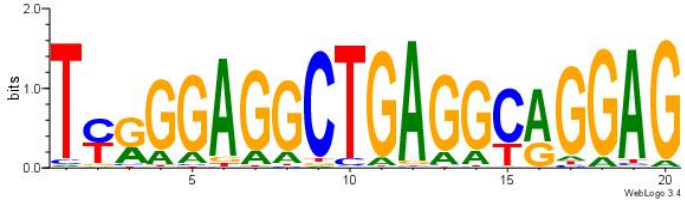

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.146588

Alignment:
CCCMKGGCACCCTCAGTCCT
CACTTTCCAGACTGGGCA--

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

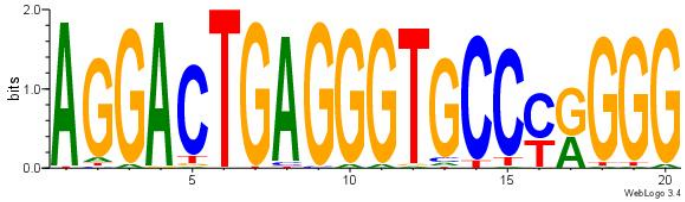

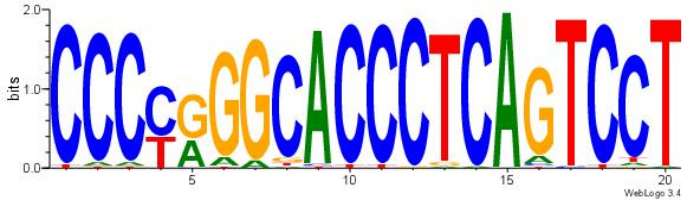

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.14696

Alignment:

```
CGGCTTCATTCTTGAAGTC
-TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

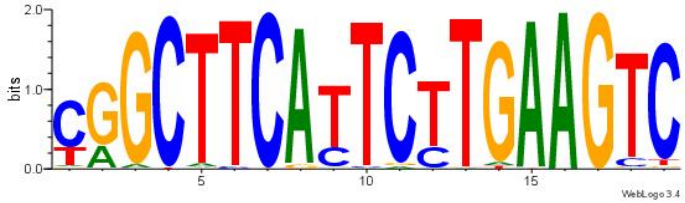

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.147927

Alignment:

```
GGCACTGCTGGGGGACCCAG
TGCCCAGTCTGGAAAGTG--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

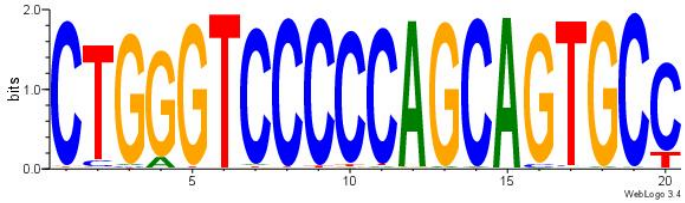

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

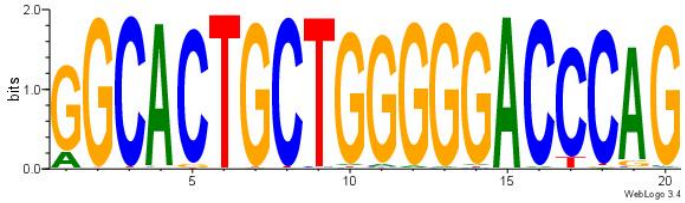

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.148008

Alignment:
AGTTCCGGGTGGGCGTGGG
-TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

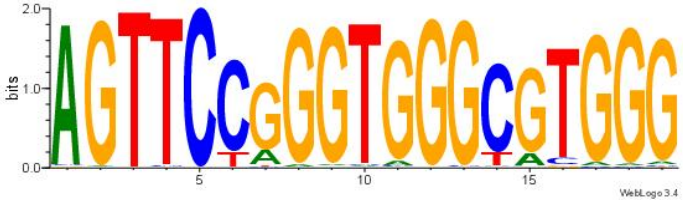

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

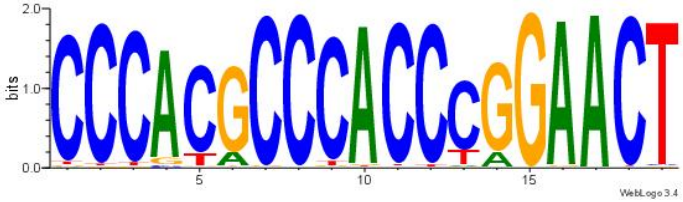

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.148323

Alignment:
ATGGCCTATGACYGSTTTG
-TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

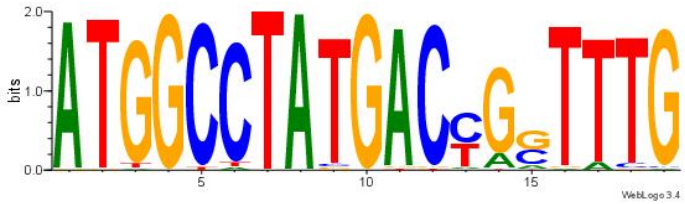

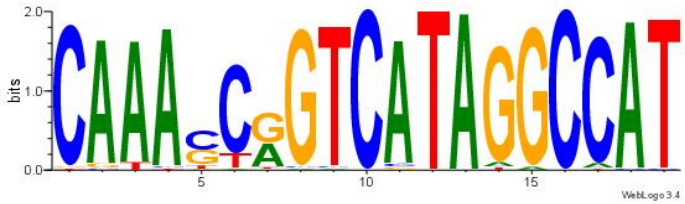

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.148643

Alignment:

```
CTGTTTGCCTGGGTATCA
CACTTTCCAGACTGGGCA
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

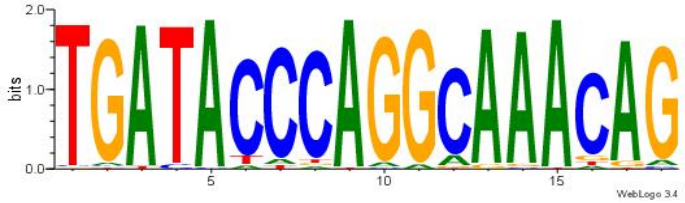

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

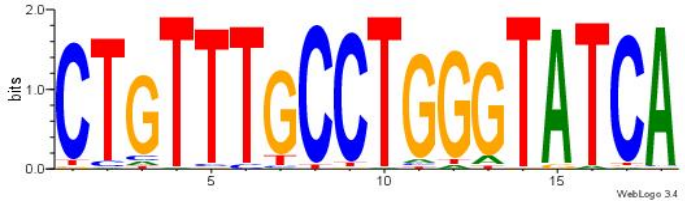

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.14891

Alignment:

```
GCCGTTTKTTAAGCCCGTY
CACTTTCCAGACTGGGCA-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

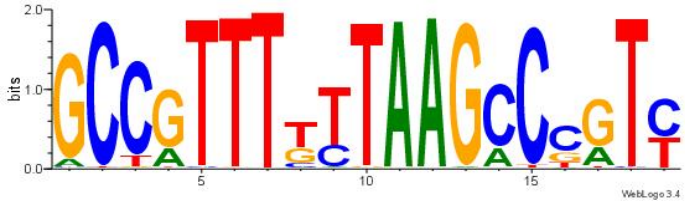

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

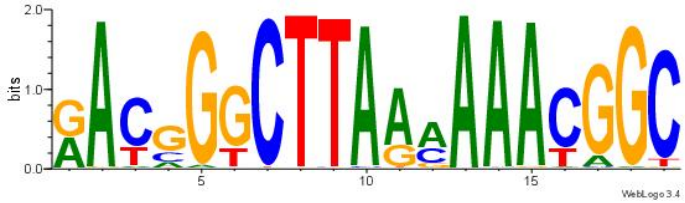

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.149241

Alignment:
CTGGGCTCCTGAGTCTGGTG
--TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

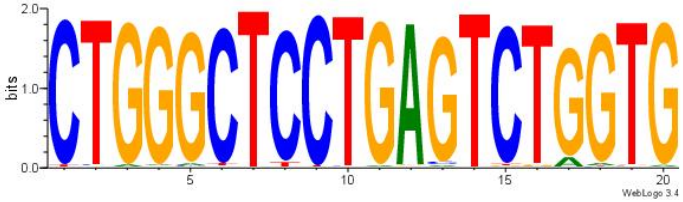

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

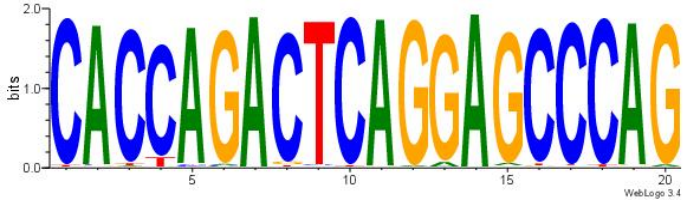

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.149712

Alignment:
TYTGTCMTTTTGTGACTGGC
--TGCCCAGTCTGGAAAGTG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

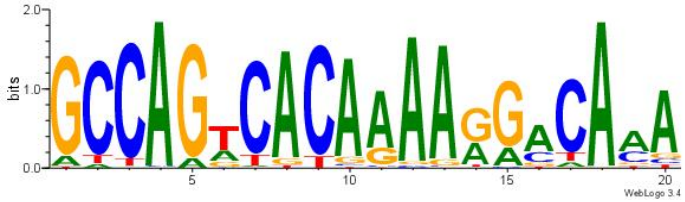

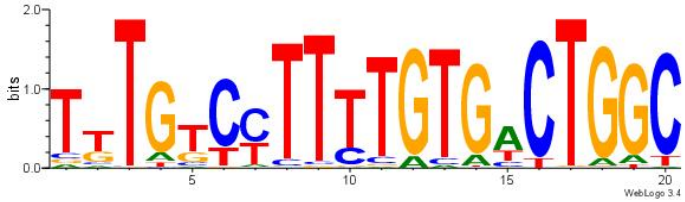

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.149834

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

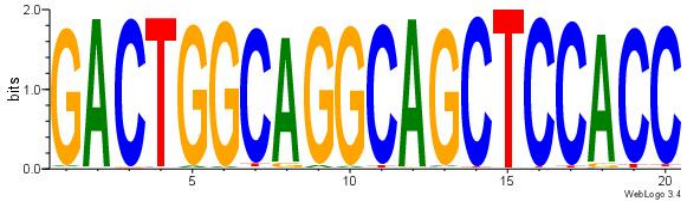

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

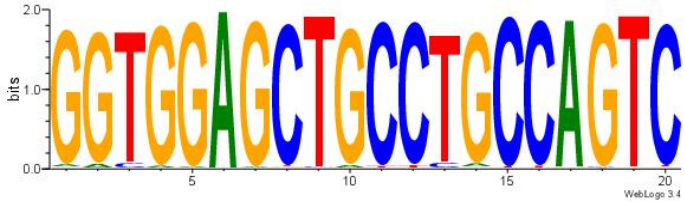

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.149881

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--TGCCCAGTCTGGAAAGTG
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

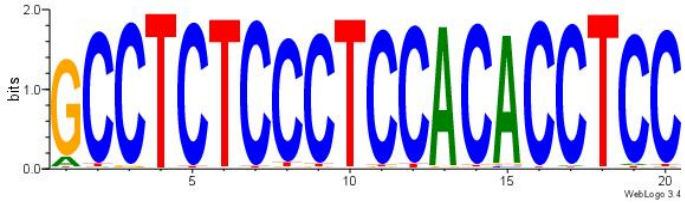

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

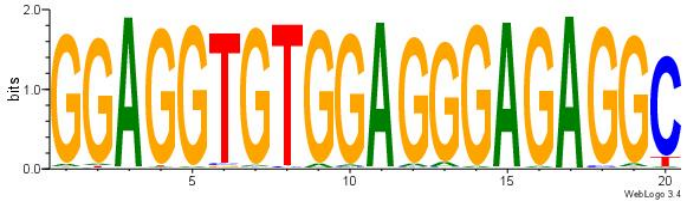

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.149899

Alignment:
AGGTTTGTTACATAGGTAWA
CACTTTCCAGACTGGGCA--

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

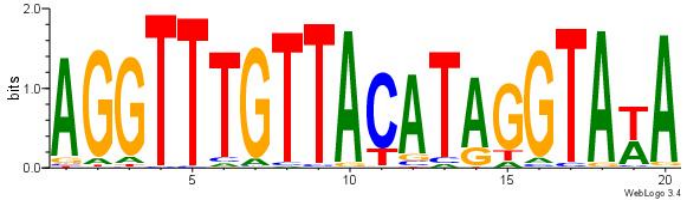

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

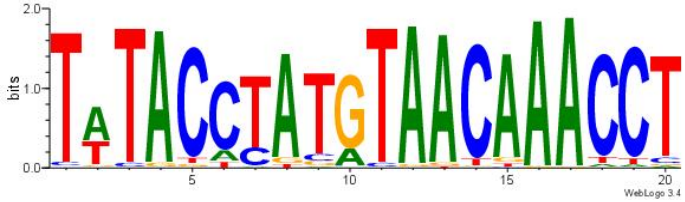

Dataset #: 1 Motif ID: 46 Motif name: Motif 46

Original motif Consensus sequence: CCCCWCCCCCA

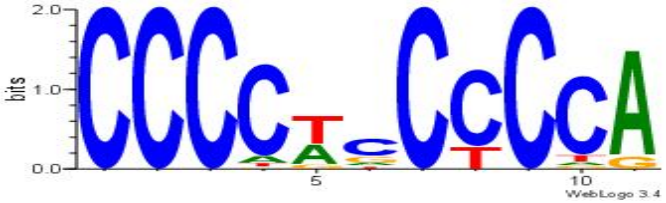

Reverse complement motif Consensus sequence: TGGGGGWGGGG

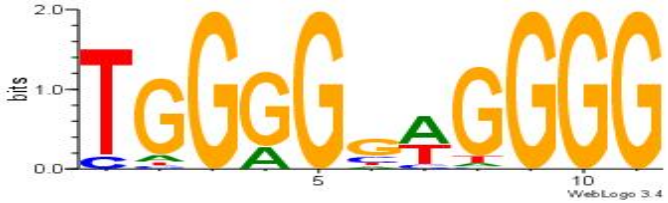

Best Matches for Motif ID 46 (Highest to Lowest)

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0694266

Alignment:
CGAGCCCTGCCCCGCGG
---CCCCWCCCCCA---

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

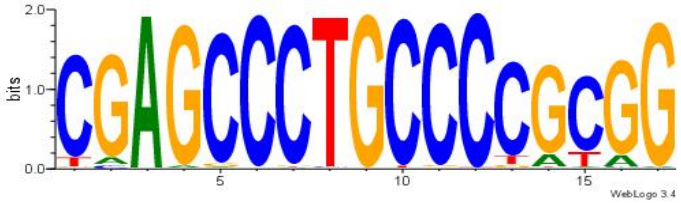

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

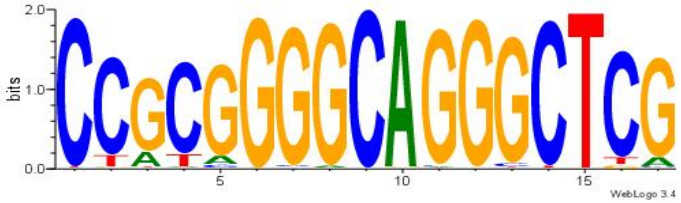

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0733808

Alignment:
GGGAGGAAGGGGACAC
-TGGGGGWGGGG----

Original motif Consensus sequence: GGGAGGAAGGGGACAC

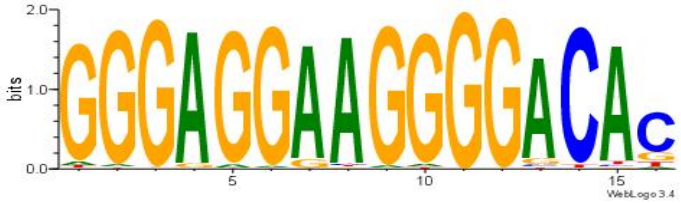

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

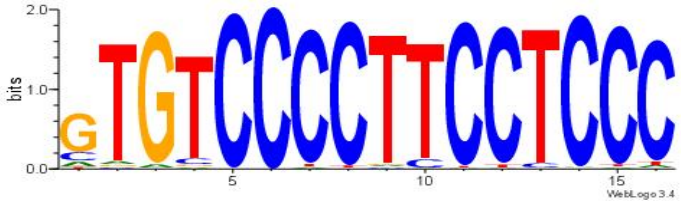

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0736838

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
CCCCWCCCCCA---------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

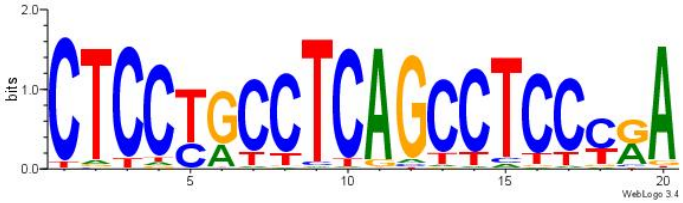

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

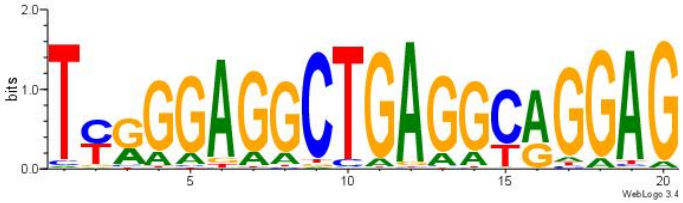

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0739686

Alignment:

```
CTTGGGTGGTCGATGGGAC
------TGGGGGWGGGG--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

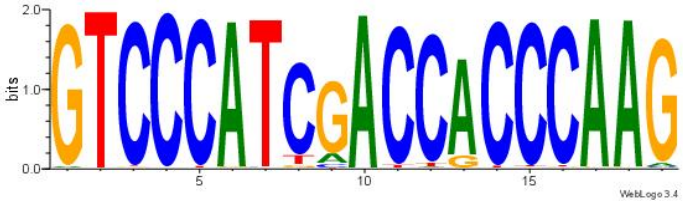

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

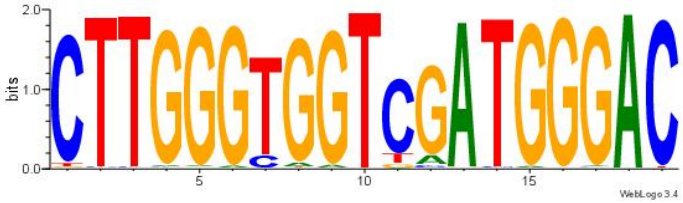

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0768738

Alignment:
MGCTGAGGCAGGAG
---TGGGGGWGGGG

Original motif Consensus sequence: CTCCTGCCTCAGCY

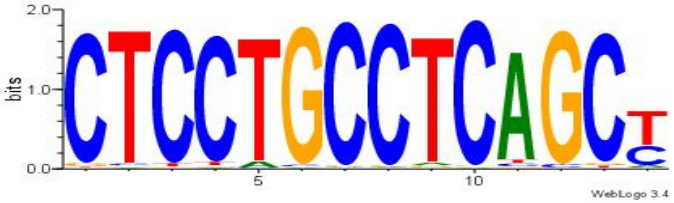

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

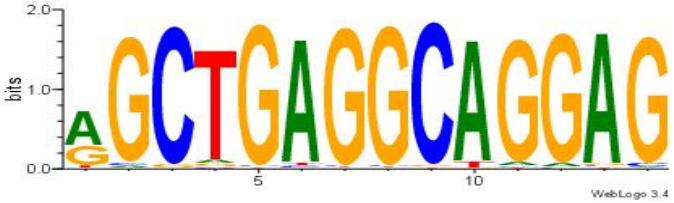

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0816313

Alignment:
VCCDCCTCCKCCTCCTC
-----CCCCWCCCCCA-

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

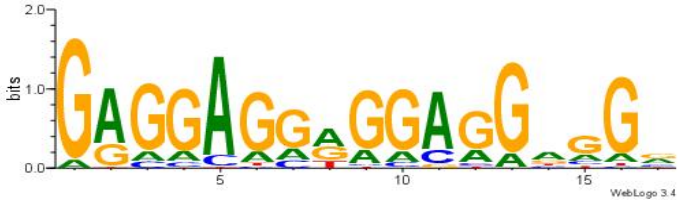

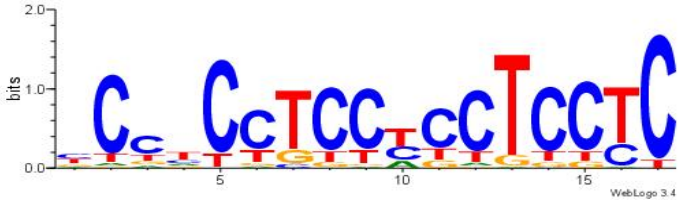

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0818128

Alignment:

```
GKCTGTACCCCCATTGTAT
--CCCCWCCCCCA------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

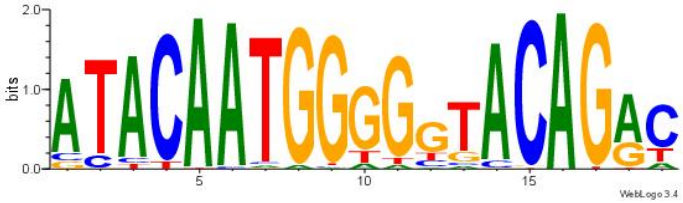

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

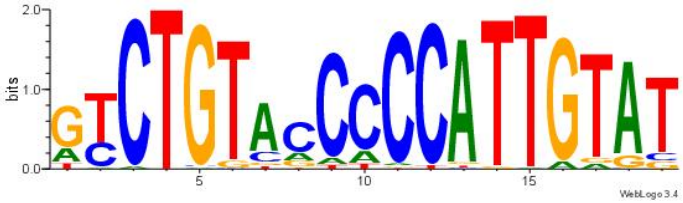

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0831003

Alignment:

```
TCCCTCCCGGACGGGGYGGC
CCCCWCCCCCA---------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

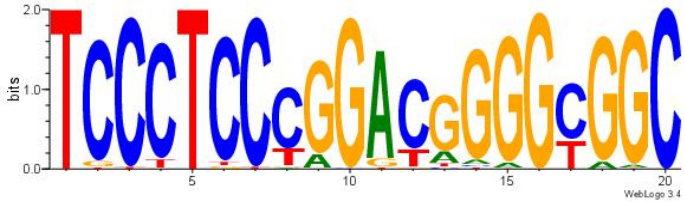

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

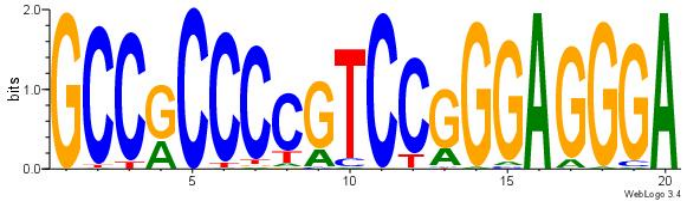

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0848106

Alignment:
GCCGGGRAGAGGCGCTCCT
-TGGGGGWGGGG-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

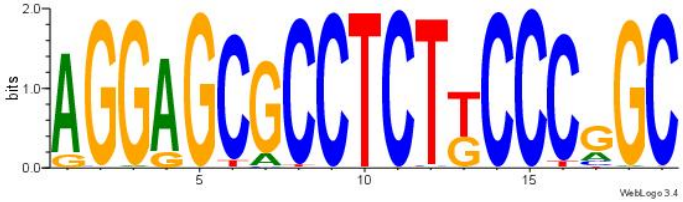

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

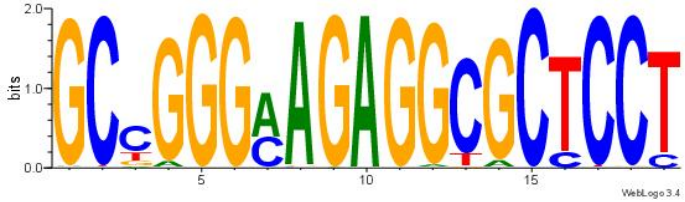

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0849663

Alignment:
ACTCAGCCCRCCTGCACCC
-----CCCCWCCCCCA---

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

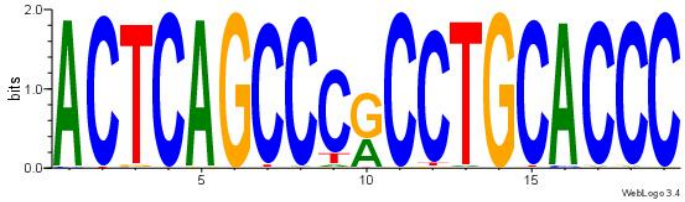

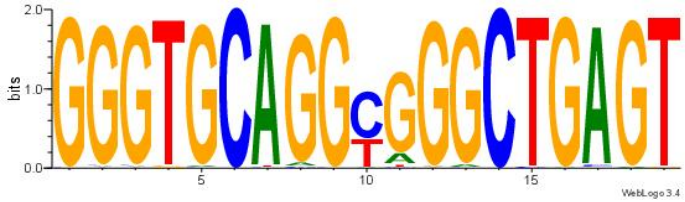

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0855036

Alignment:

```
KGGGCDGAGGGGCTCCT
-TGGGGGWGGGG-----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

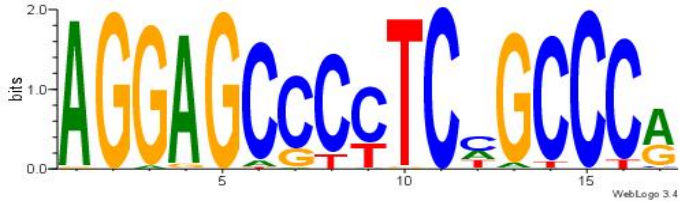

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

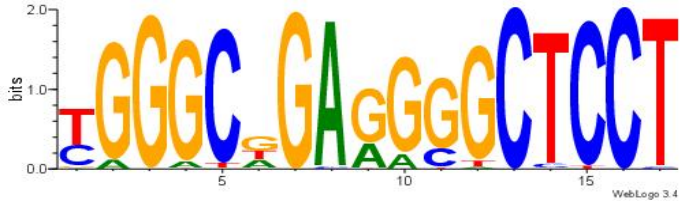

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0867636

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CCCCWCCCCCA-------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

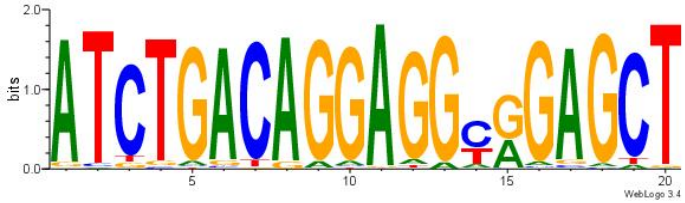

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

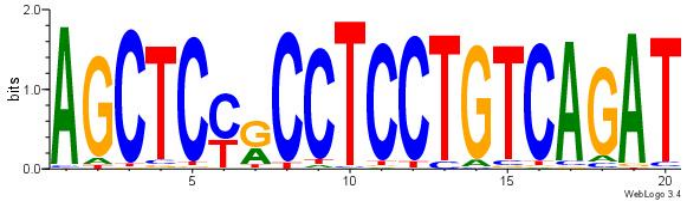

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0868439

Alignment:
ACTGTCTTCCACCTCCACAT
------CCCCWCCCCCA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

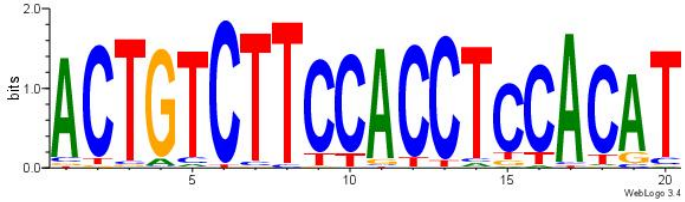

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

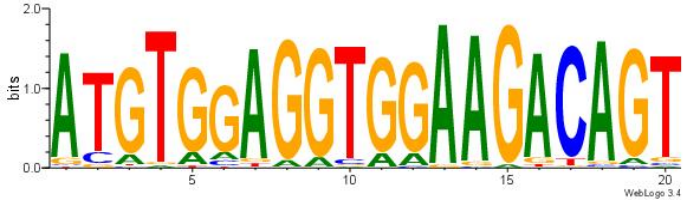

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0868846

Alignment:
GCCKGGMKCMGTGGCTCAKG
---TGGGGGWGGGG------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

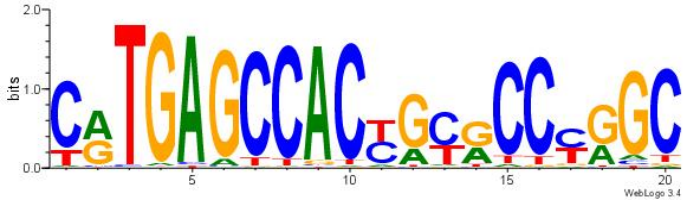

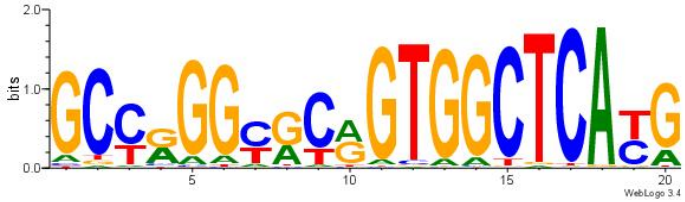

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0882334

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--------TGGGGGWGGGG-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

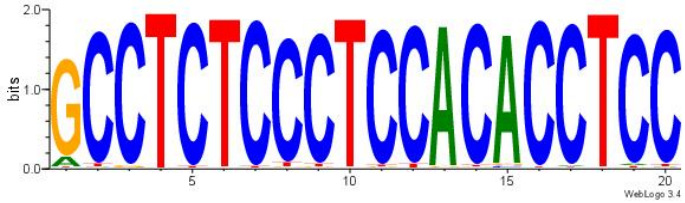

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

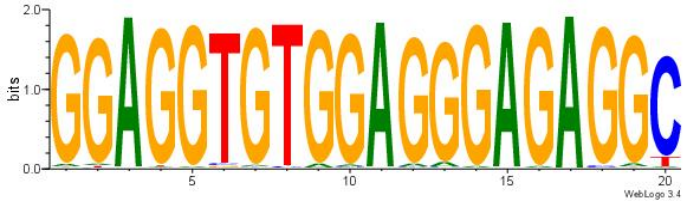

Dataset #:	1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0888491

Alignment:

```
GCCACCAMGCCMKGCTAAT
------CCCCWCCCCCA--
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

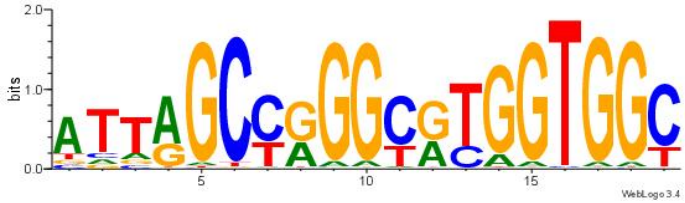

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

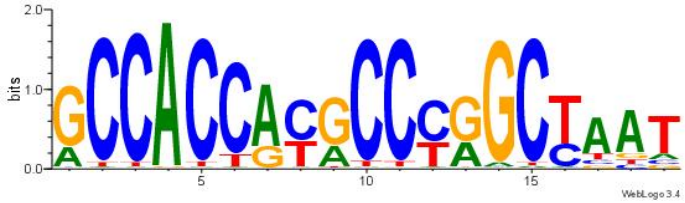

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0893891

Alignment:
CCACCACAGCTCAAGGAGGC
---CCCCWCCCCCA------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

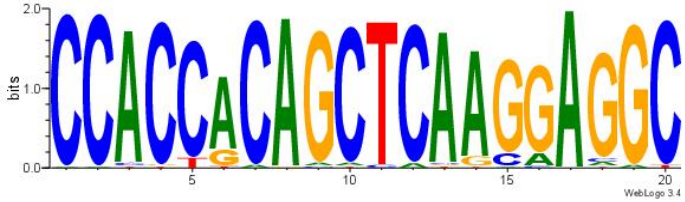

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

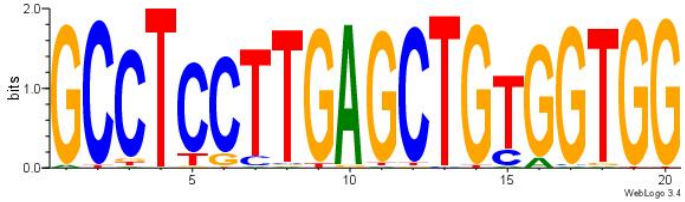

Dataset #: 1
Motif ID: 259
Motif name: Motif 259
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.090284

Alignment:
CCCACACCCTTATTA
-CCCCWCCCCCA---

Original motif Consensus sequence: CCCACACCCTTATTA

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

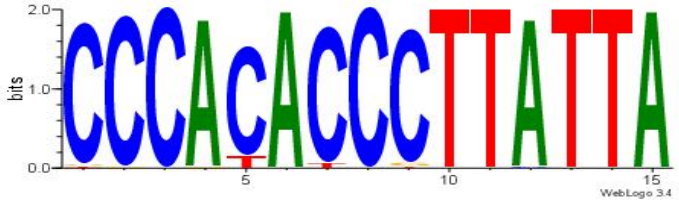

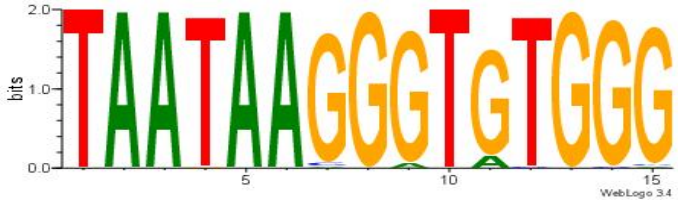

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0906751

Alignment:

```
MTCCTCCAGACCCCAGAATG
----CCCCWCCCCCA-----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

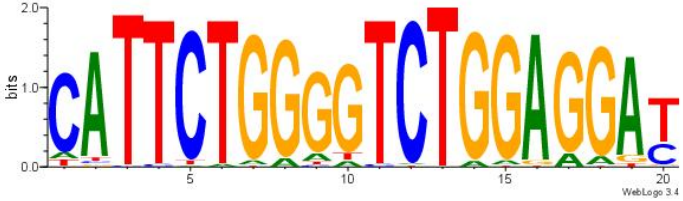

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

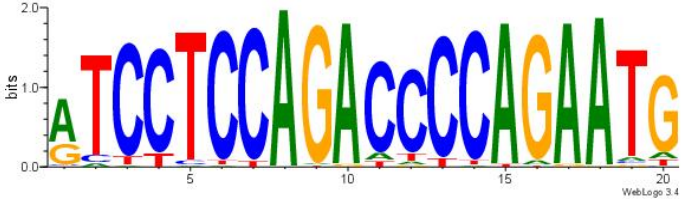

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0906902

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--CCCCWCCCCCA-------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

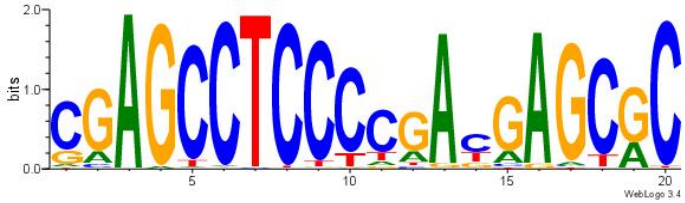

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

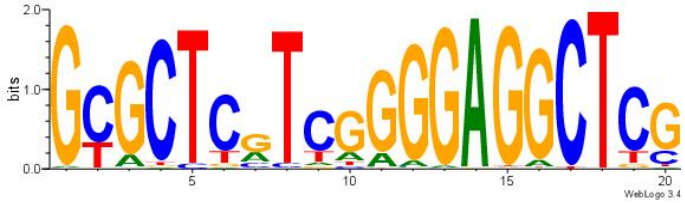

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0907093

Alignment:
GGCTGCGGAGGGTGTA
---TGGGGGWGGGG--

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

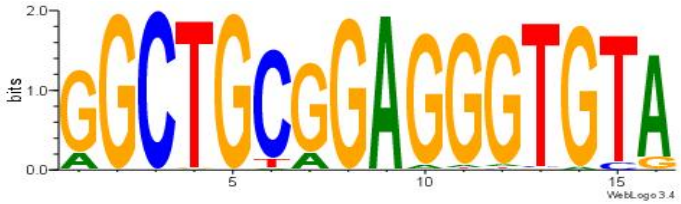

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

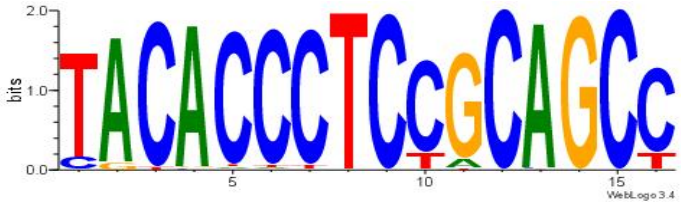

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0909899

Alignment:
CTCCCAGCCGCCTG
--CCCCWCCCCCA-

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

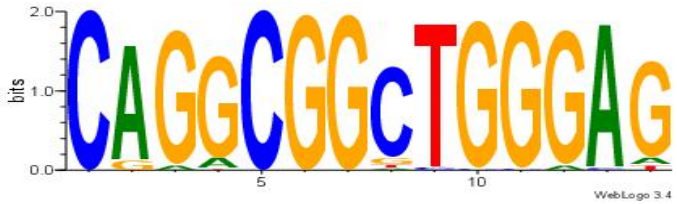

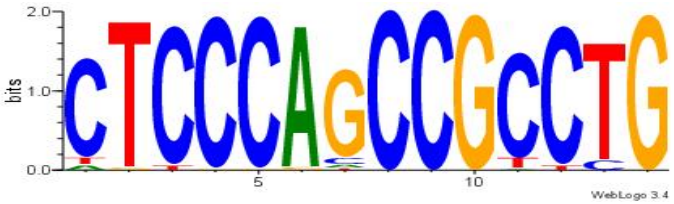

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.091113

Alignment:

```
AGTTCCGGGTGGGCGTGGG
---TGGGGGWGGGG-----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

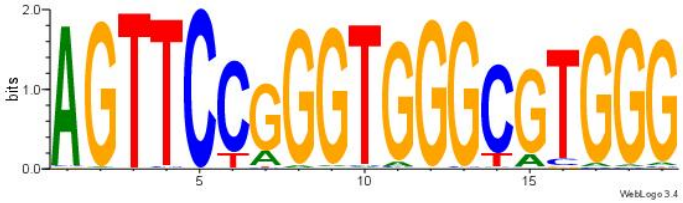

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

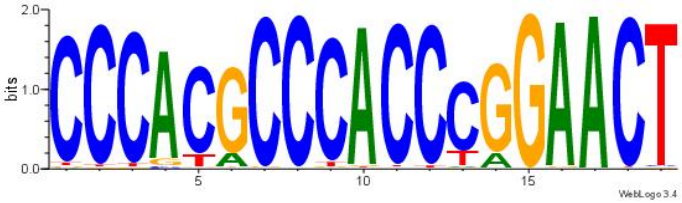

Dataset #: 1

Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0942067

Alignment:

```
GTGGGTGCAGTGCA
-TGGGGGWGGGG--
```

Original motif Consensus sequence: TGCACTGCACCCAC

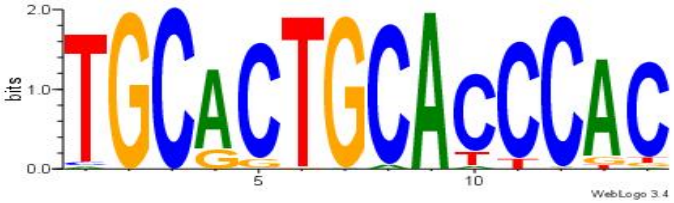

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

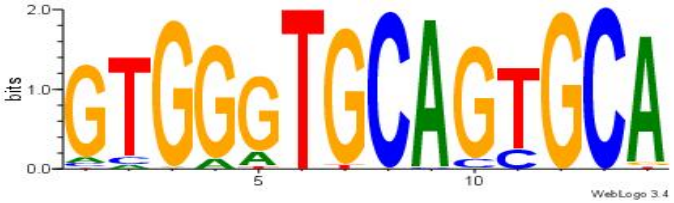

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0942377

Alignment:
AGACYCYGTCTCAA
---CCCCWCCCCCA

Original motif Consensus sequence: AGACYCYGTCTCAA

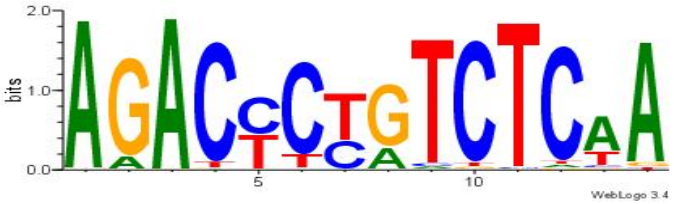

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

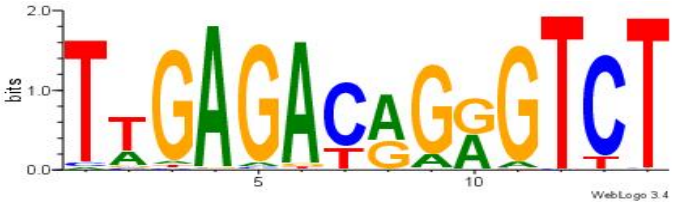

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0945689

Alignment:
CGCCGCCGCCGC
CCCCWCCCCCA-

Original motif Consensus sequence: CGCCGCCGCCGC

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

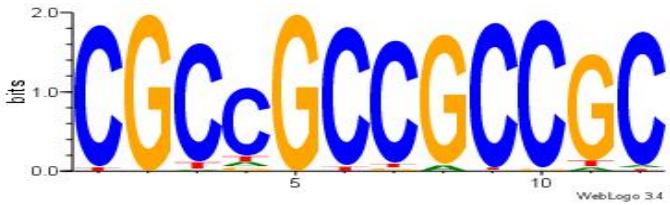

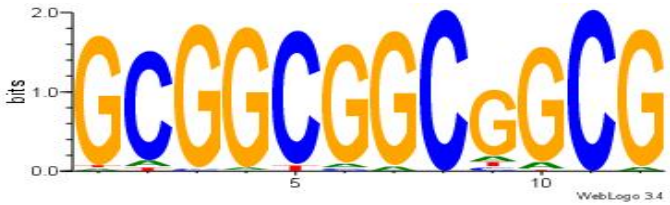

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0948759

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CCCCWCCCCCA----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

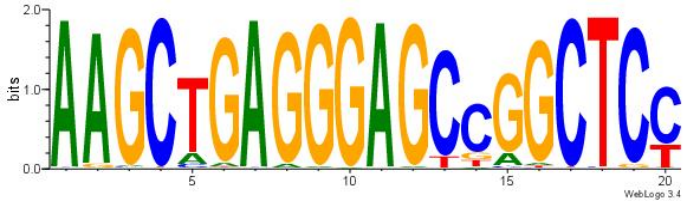

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

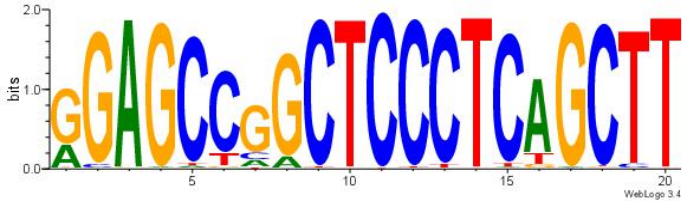

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0950199

Alignment:

```
GCTGGCCCKGGTGCTAAGC
--TGGGGGWGGGG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

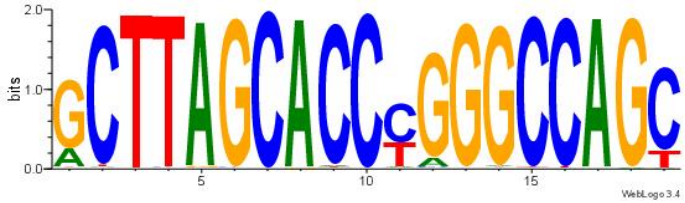

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

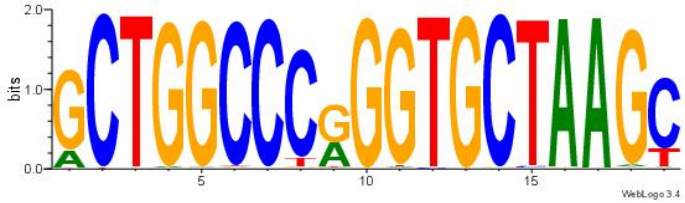

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.0957662

Alignment:
AGACAGTGGGYGCAGGHCA
--TGGGGGWGGGG------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

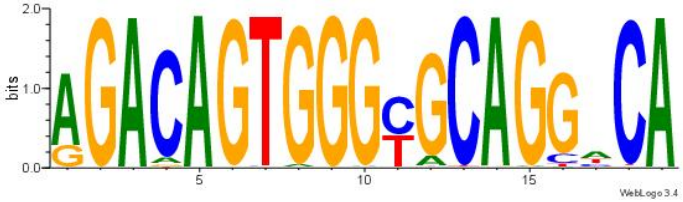

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

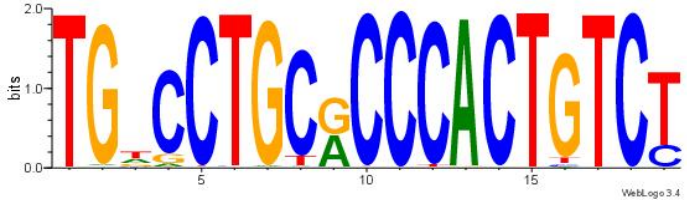

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0965858

Alignment:
ACTTTGGACTGTGGACTTTT
---TGGGGGWGGGG------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

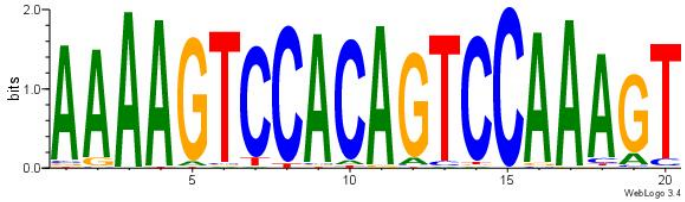

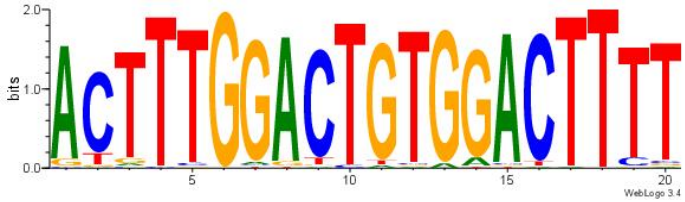

Dataset #:	1
Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0967429

Alignment:

```
CTGYGTCCCCA
CCCCWCCCCCA
```

Original motif Consensus sequence: CTGYGTCCCCA

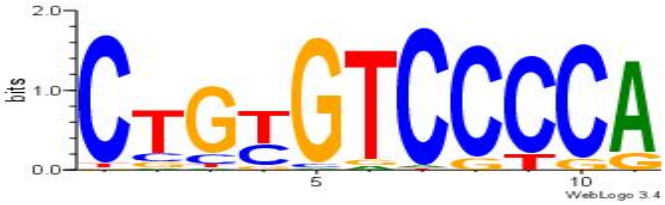

Reverse complement motif Consensus sequence: TGGGGACMCAG

Dataset #:	1
Motif ID:	247

Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.096863

Alignment:

```
GCCTCACTGCCRC
-CCCCWCCCCCA-
```

Original motif Consensus sequence: GCCTCACTGCCRC

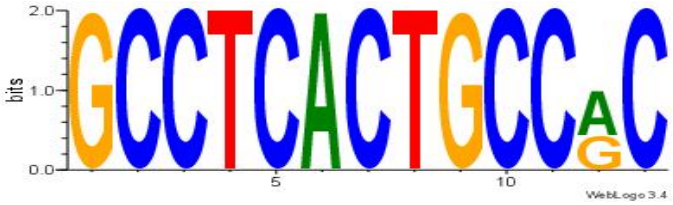

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

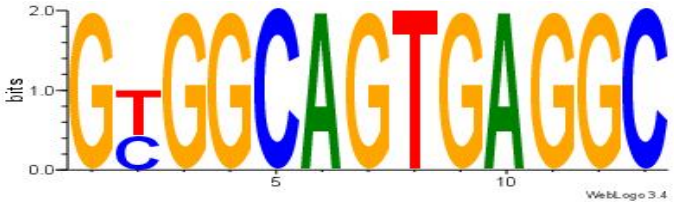

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0974474

Alignment:
AGGASCSTCYSWGCCMGGY
-----CCCCWCCCCCA---

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

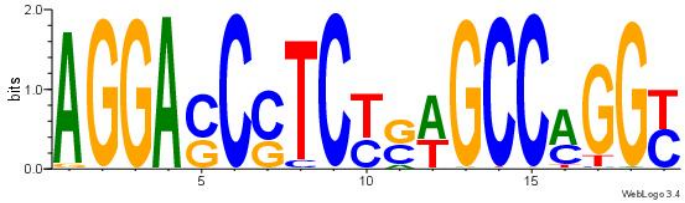

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

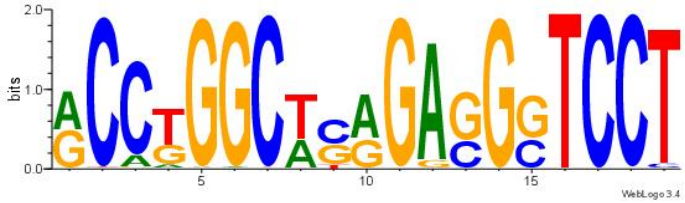

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0980058

Alignment:
AGGCGGCTGGGAGG
---TGGGGGWGGGG

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

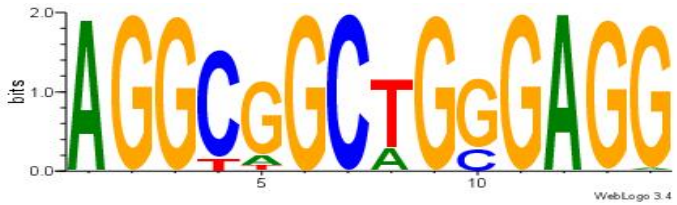

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0981161

Alignment:

```
CACCTCCCAGACMGGGT
CCCCWCCCCCA------
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

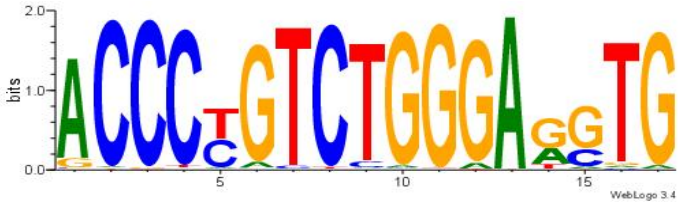

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

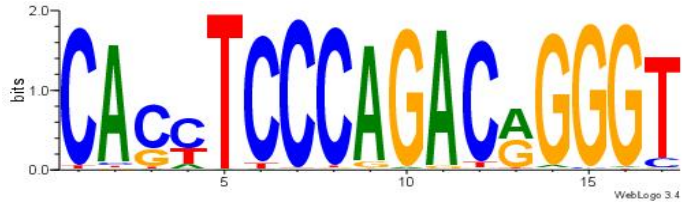

Dataset #: 1

Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0982947

Alignment:

```
GGAGGCKGAGG
TGGGGGWGGGG
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

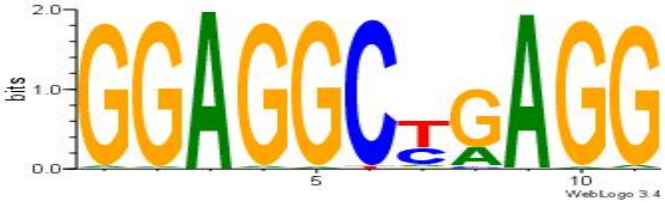

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0986257

Alignment:
GGTGGGGGGGTCAGCCCCC
TGGGGGWGGGG--------

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

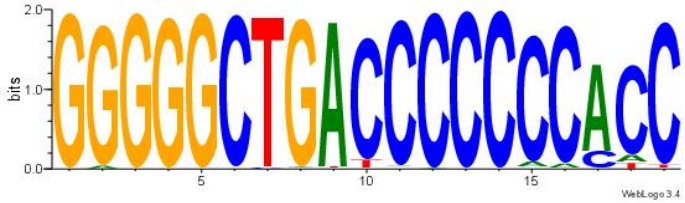

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

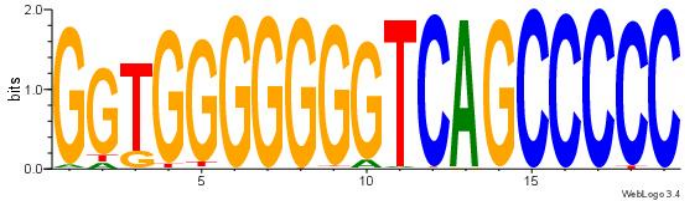

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0991159

Alignment:
CCAAGACYCCAGAC
CCCCWCCCCCA---

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

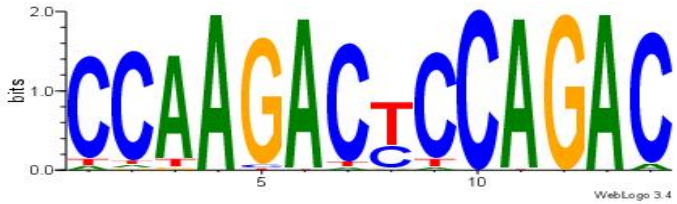

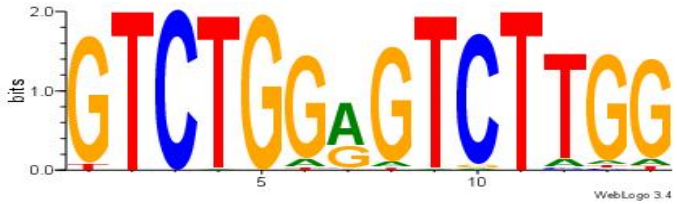

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0991323

Alignment:

```
CAGACTGCCTCCTCAA
-----CCCCWCCCCCA
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

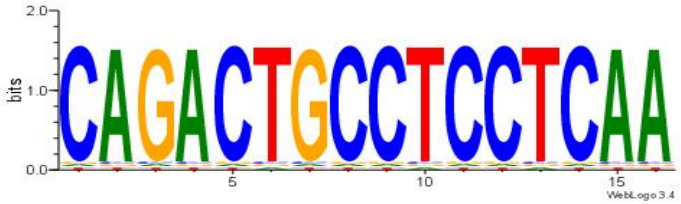

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

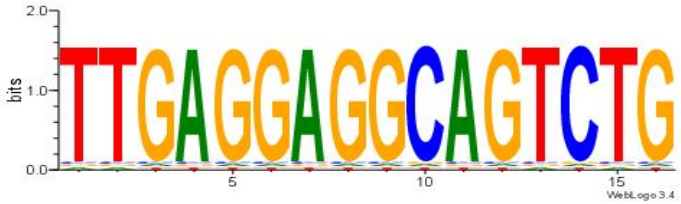

Dataset #: 1

Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0992307

Alignment:

```
GACCAMGAACCCA
--CCCCWCCCCCA
```

Original motif Consensus sequence: GACCAMGAACCCA

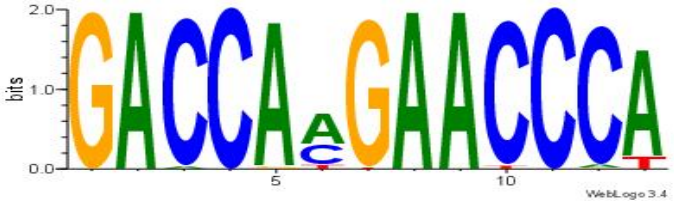

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

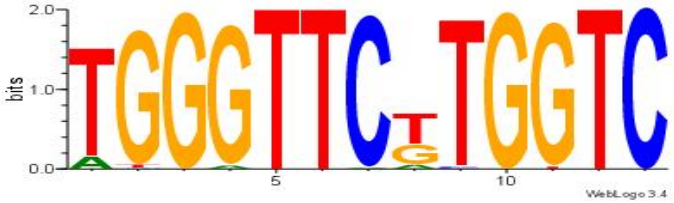

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0993513

Alignment:
GATGTGTCTGGAG
--TGGGGGWGGGG

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

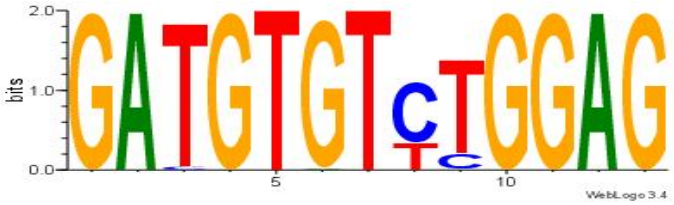

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.100055

Alignment:
CCCAAATCCTATAAAA
CCCCWCCCCCA-----

Original motif Consensus sequence: CCCAAATCCTATAAAA

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

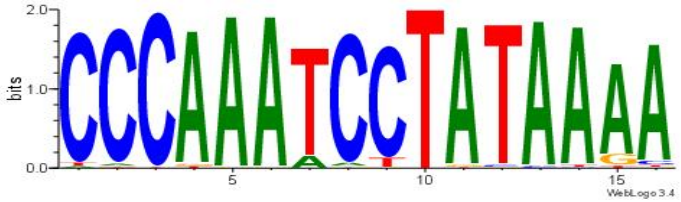

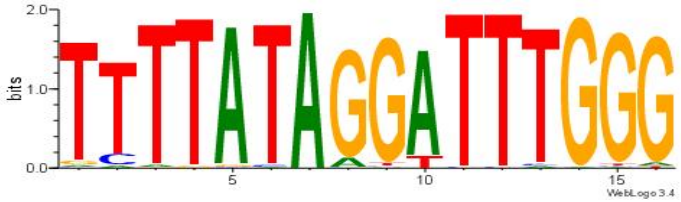

Dataset #:	1
Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.100367

Alignment:

```
GGTCCTCCTCTAT
-CCCCWCCCCCA-
```

Original motif Consensus sequence: ATAGAGGAGGACC

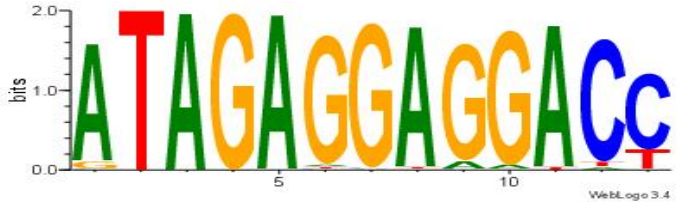

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

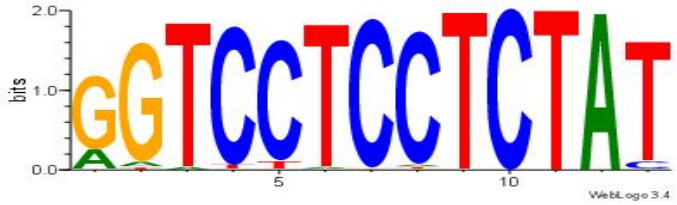

Dataset #:	1
Motif ID:	104

Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.100651

Alignment:

```
CAACATGGATGRARCTGGAG
---------TGGGGGWGGGG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

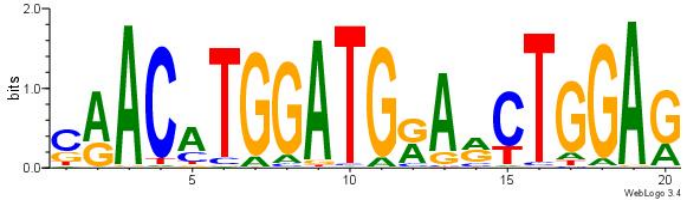

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

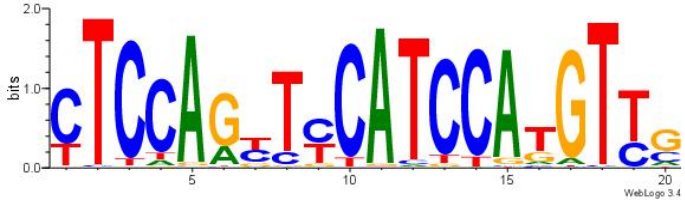

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.101083

Alignment:
GGATGGTGAGGGC
TGGGGGWGGGG--

Original motif Consensus sequence: GCCCTCACCATCC

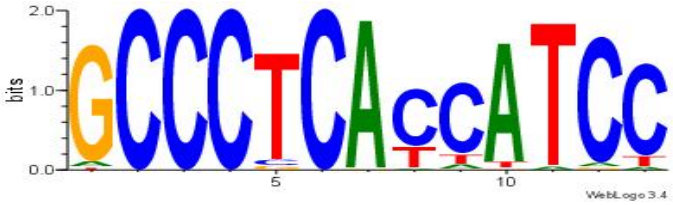

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

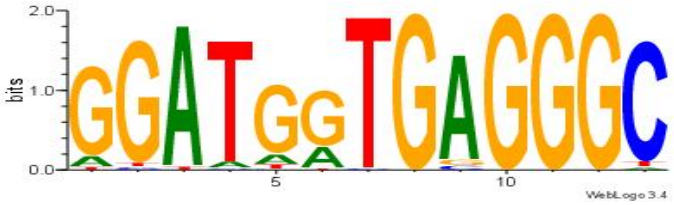

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.101965

Alignment:
CTGGGCTCCTGAGTCTGGTG
---------TGGGGGWGGGG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

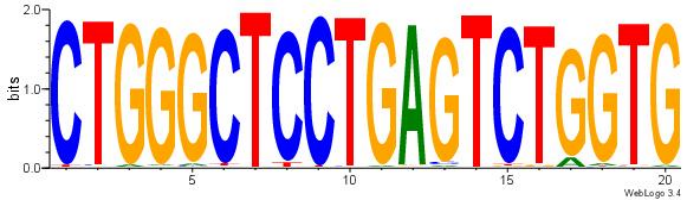

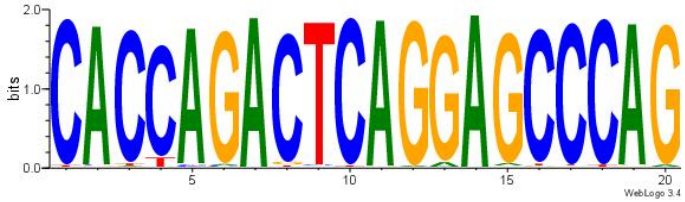

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.102945

Alignment:

```
TGTGTGTGTGTKTGTGTGT
------TGGGGGWGGGG--
```

Original motif Consensus sequence: ACACACAYACACACACACA

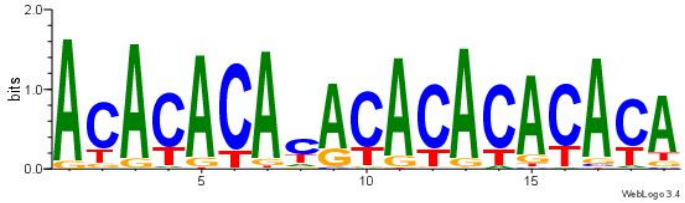

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

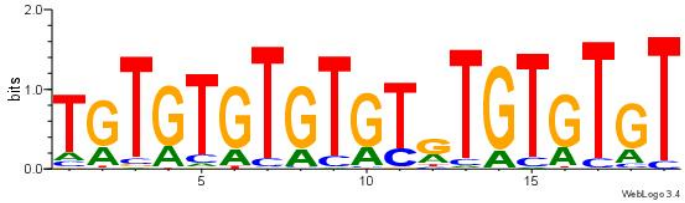

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.103051

Alignment:

```
AGGACTGAGGGTGCCYRGGG
--------TGGGGGWGGGG-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

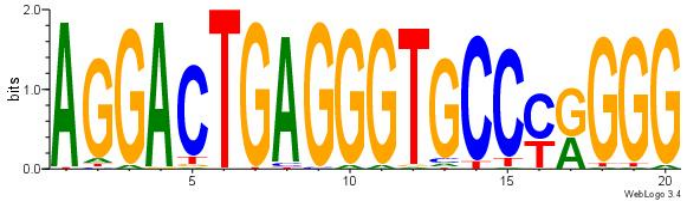

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

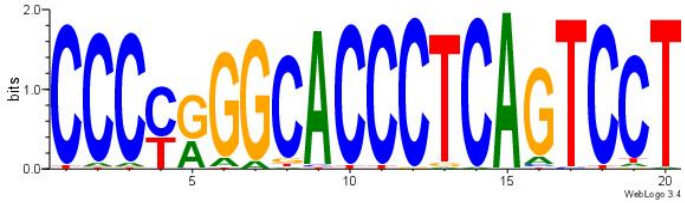

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.103591

Alignment:
TGCGCGCACCCAC
-CCCCWCCCCCA-

Original motif Consensus sequence: GTGGGTGCGCGCA

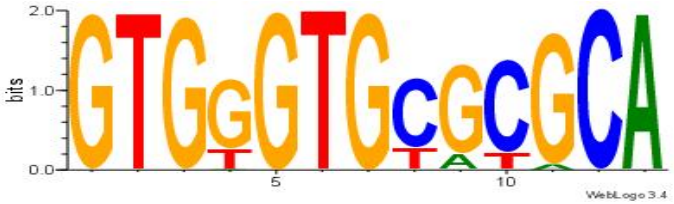

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

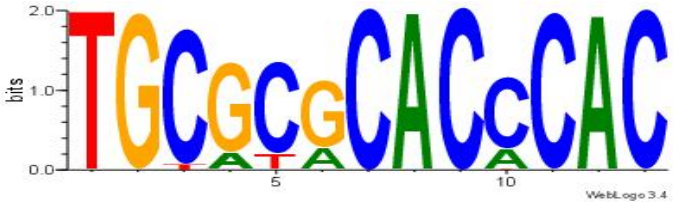

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.103772

Alignment:
AAATTACCCAGTCTCAGGTA
-----CCCCWCCCCCA----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

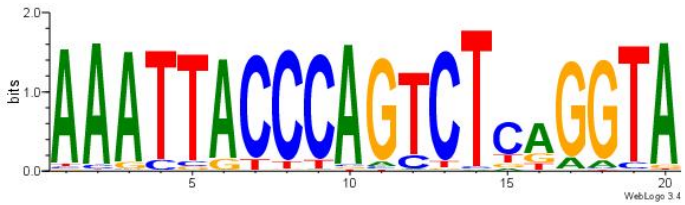

Dataset #: 1 Motif ID: 47 Motif name: Motif 47

Original motif Consensus sequence: GCCTCAGTTTCCY

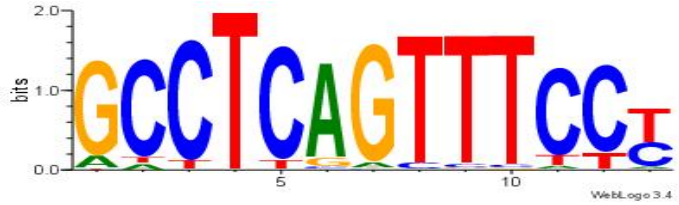

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

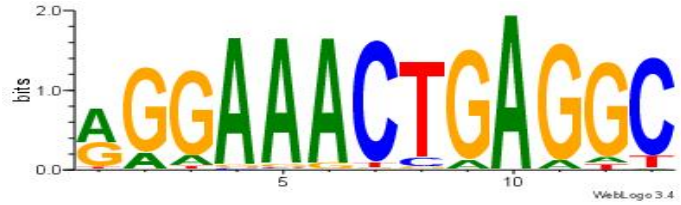

Best Matches for Motif ID 47 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0351242

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-----GCCTCAGTTTCCY--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

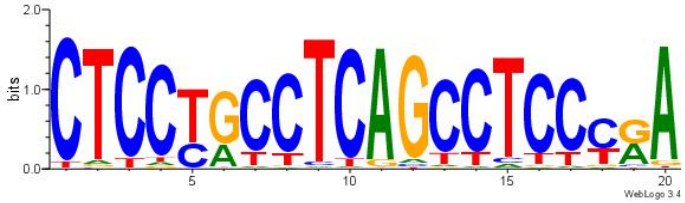

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

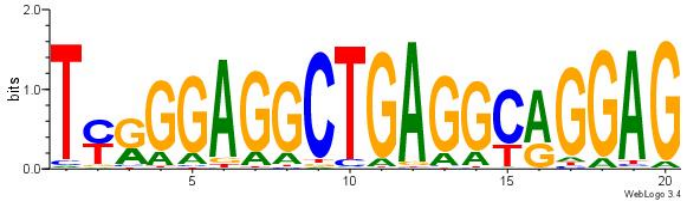

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0624672

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-----GCCTCAGTTTCCY--
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

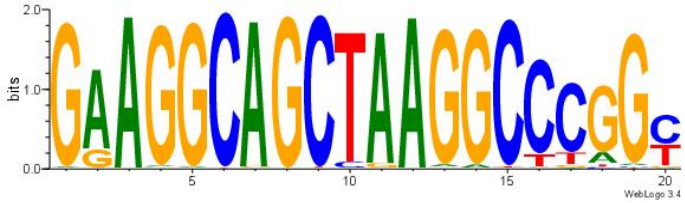

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

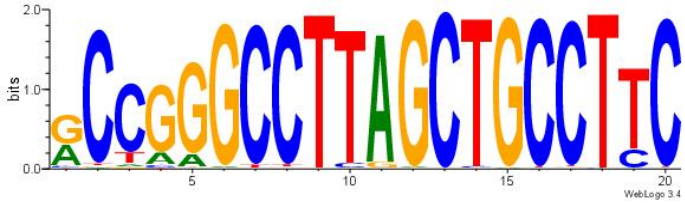

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.067911

Alignment:

```
GCGMGCGGGAACCGGGGCT
-----MGGAAACTGAGGC-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

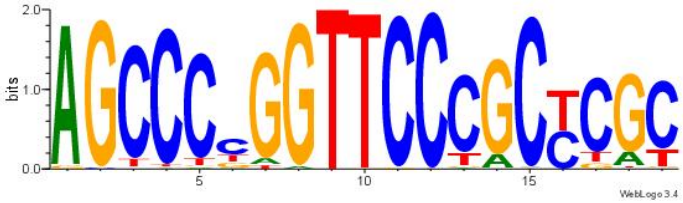

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

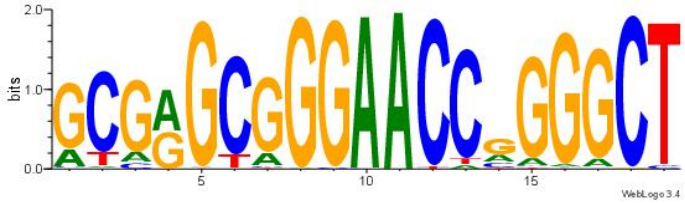

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 13
Similarity score: 0.0734205

Alignment:
AACAACASACACTGGGGCCT
-----MGGAAACTGAGGC--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

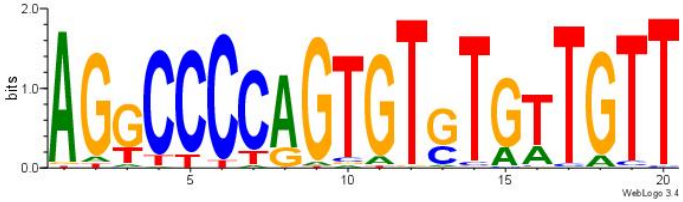

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

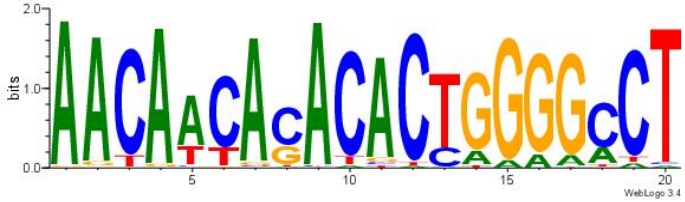

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.0791421

Alignment:
TAMGACCTCAGGTCCTCAG
----GCCTCAGTTTCCY--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

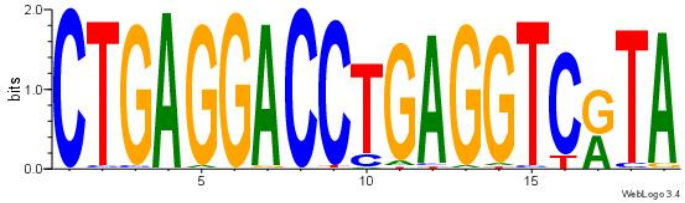

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

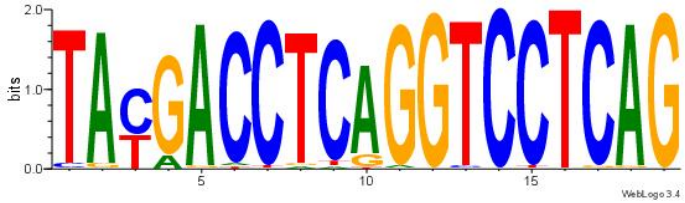

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0804278

Alignment:

```
CCCCGGGCAGTGAGGG
---MGGAAACTGAGGC
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

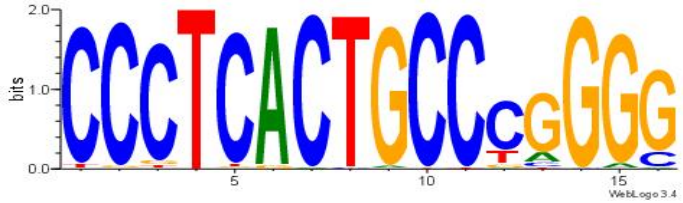

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

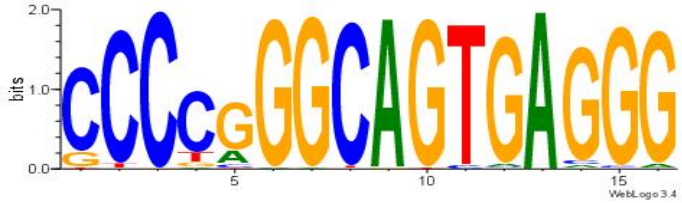

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0829582

Alignment:

GKGGCAGTGAGGC

MGGAAACTGAGGC

Original motif Consensus sequence: GCCTCACTGCCRC

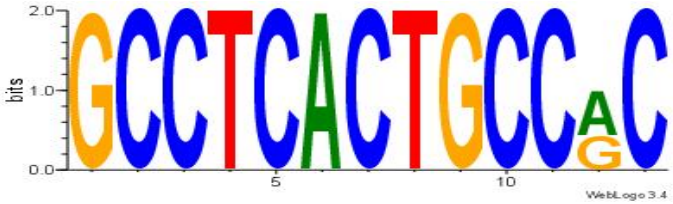

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

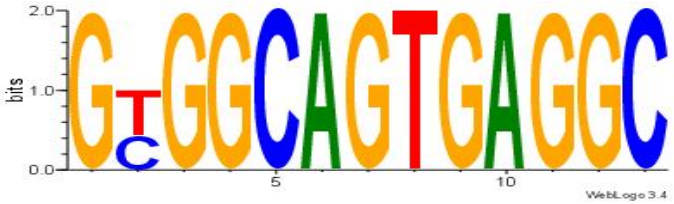

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.0829866

Alignment:
CTGGGCRACAGAGYRAGACY
-----MGGAAACTGAGGC--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

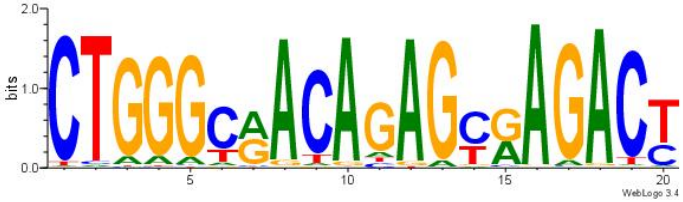

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

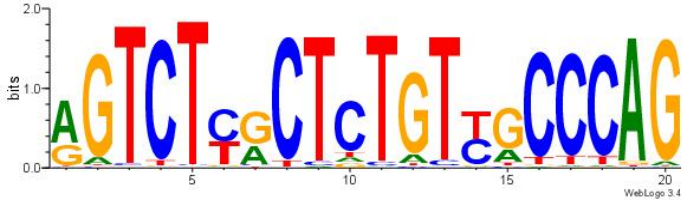

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0840875

Alignment:
CACCAGACTCAGGAGCCCAG
-----GCCTCAGTTTCCY--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

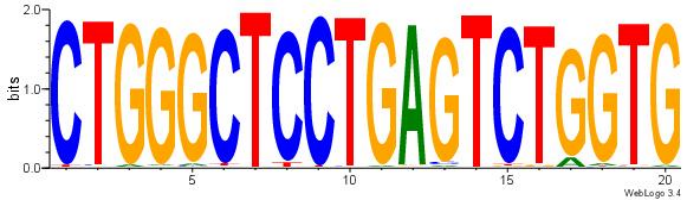

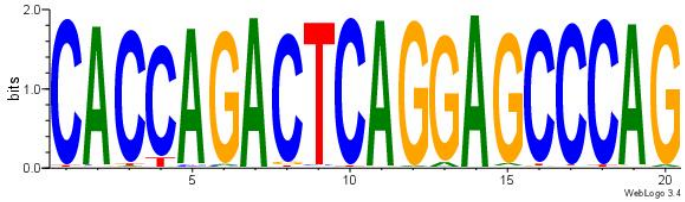

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0856849

Alignment:

```
TACCTGAGACTGGGTAATTT
---MGGAAACTGAGGC----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

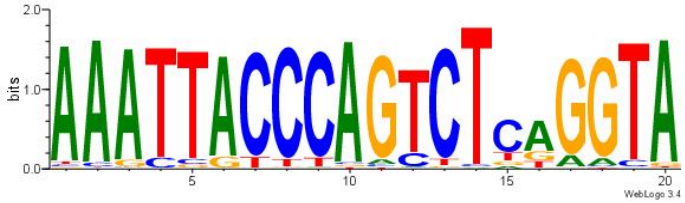

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

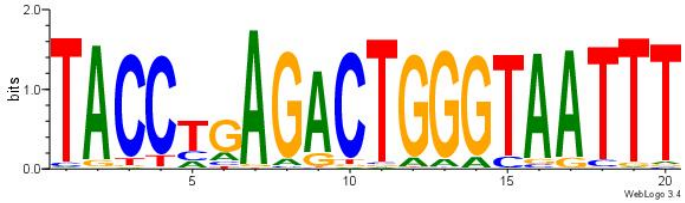

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0865798

Alignment:

```
GCCTCTCCCTCCACACCTCC
GCCTCAGTTTCCY-------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

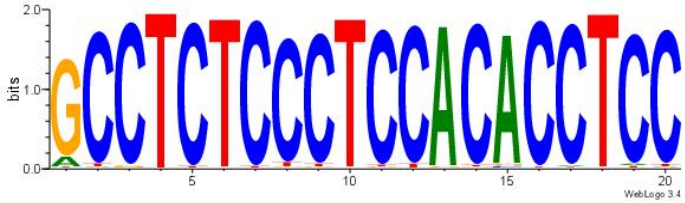

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

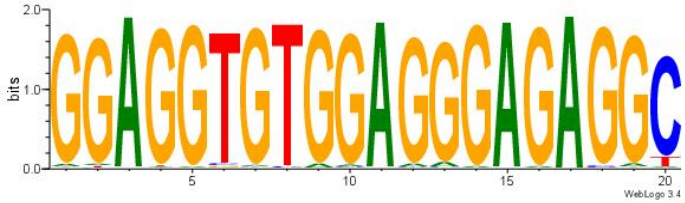

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.0871381

Alignment:
AGTGACCCGATTTTCCAGGT
---GCCTCAGTTTCCY----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

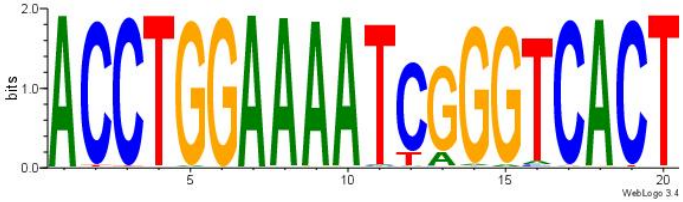

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

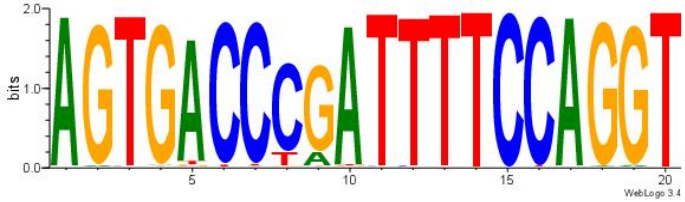

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0884558

Alignment:
GCCKGGMKCMGTGGCTCAKG
--MGGAAACTGAGGC-----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

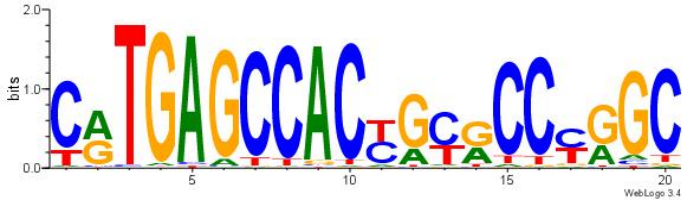

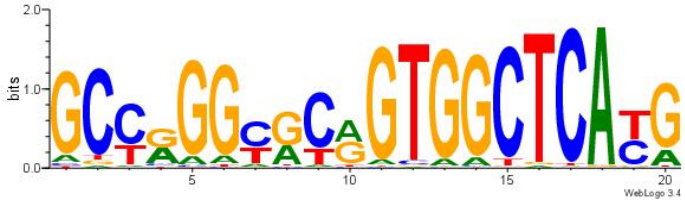

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0889439

Alignment:

```
GAAHCAACCKAAKTGTCCAT
------GCCTCAGTTTCCY-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

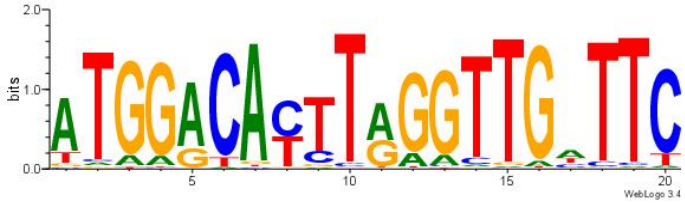

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

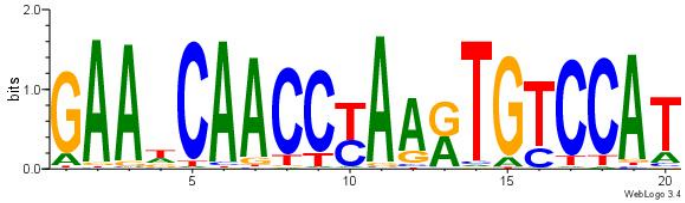

Dataset #:	1

Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0911409

Alignment:

```
AGACYCYGTCTCAA
-GCCTCAGTTTCCY
```

Original motif Consensus sequence: AGACYCYGTCTCAA

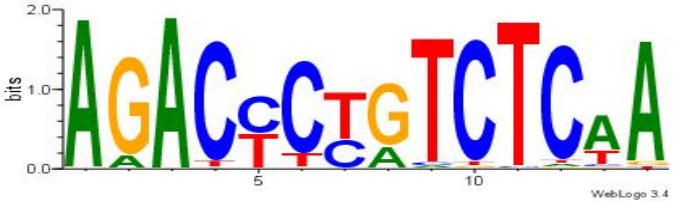

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

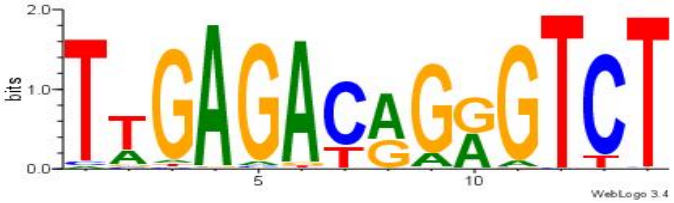

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0918659

Alignment:
AGCTCMKCCTCCTGTCAGAT
GCCTCAGTTTCCY-------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

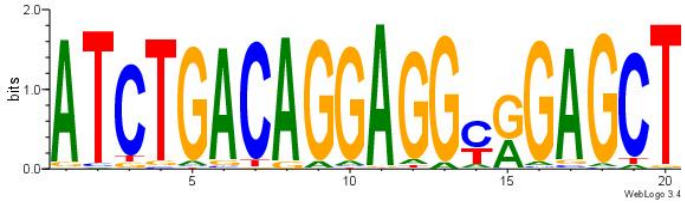

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

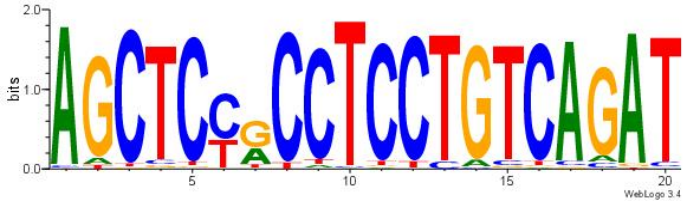

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0921873

Alignment:
VCCDCCTCCKCCTCCTC
---GCCTCAGTTTCCY-

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence:
VCCDCCTCCKCCTCCTC

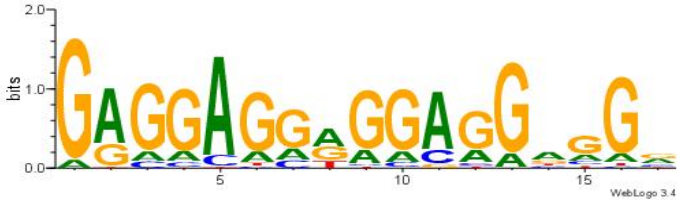

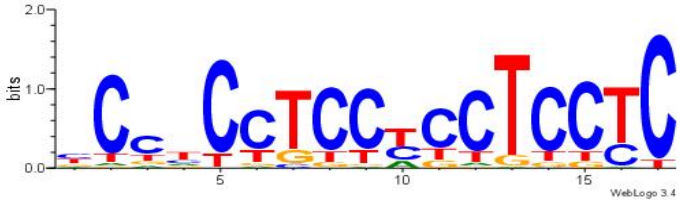

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0923691

Alignment:

```
CTCAGTGTTAATCTCCTGTC
----GCCTCAGTTTCCY---
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

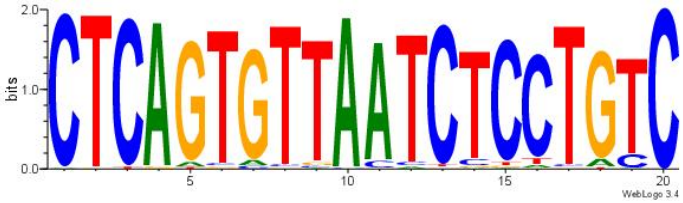

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

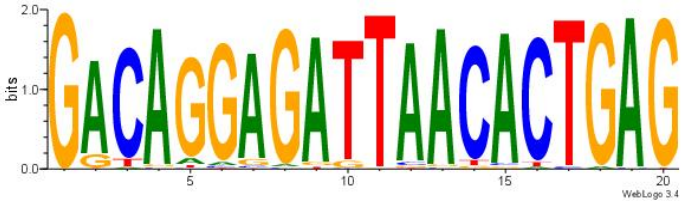

Dataset #: 1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0929893

Alignment:

```
GGGGTGACAGABGB
MGGAAACTGAGGC-
```

Original motif Consensus sequence: GGGGTGACAGABGB

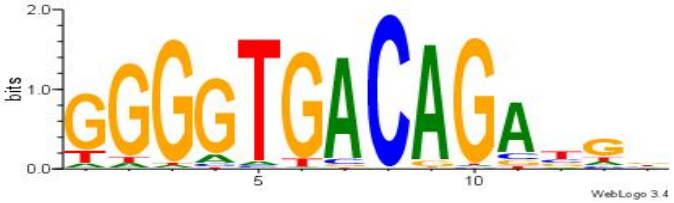

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

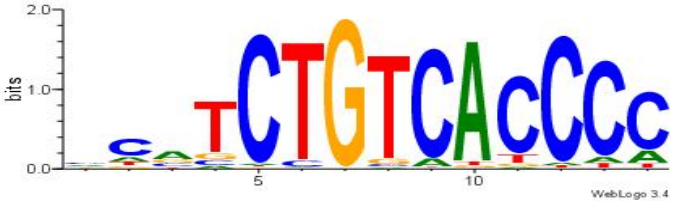

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0941481

Alignment:
GCCKCCCCGTCCGGGAGGGA
GCCTCAGTTTCCY-------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

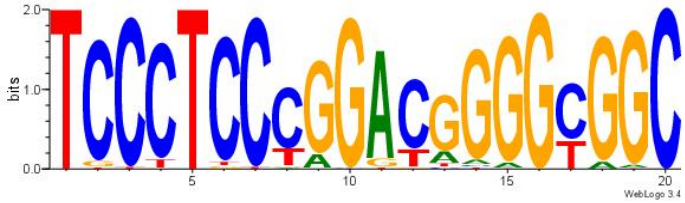

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

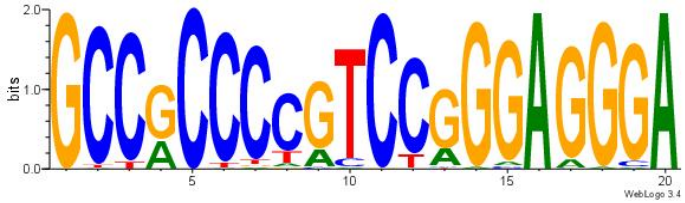

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.094896

Alignment:
AGCCYCTGGYAACCAYYAWT
-GCCTCAGTTTCCY------

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

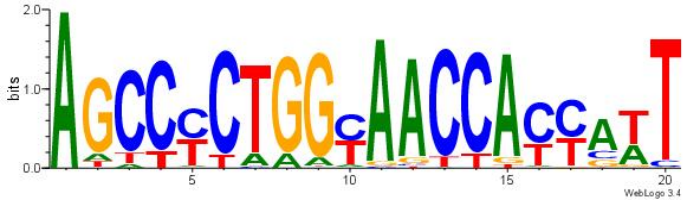

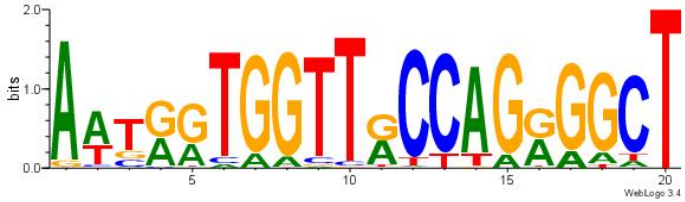

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0953806

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-GCCTCAGTTTCCY------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

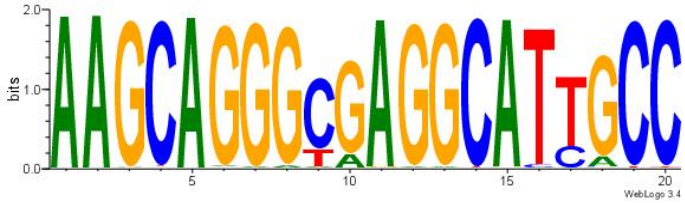

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

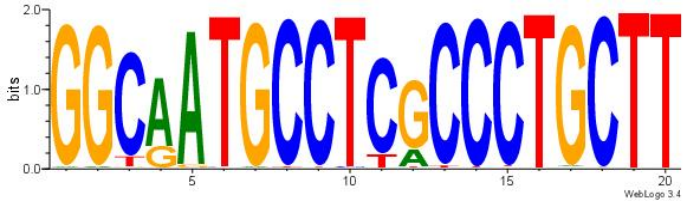

Dataset #:	1

Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0956827

Alignment:

```
CGGTACCTCAGAT
MGGAAACTGAGGC
```

Original motif Consensus sequence: ATCTGAGGTACCG

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

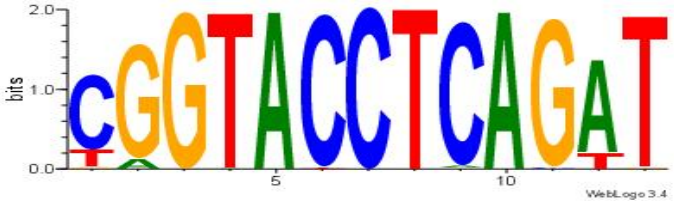

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0958011

Alignment:
CCACCACAGCTCAAGGAGGC
-------MGGAAACTGAGGC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

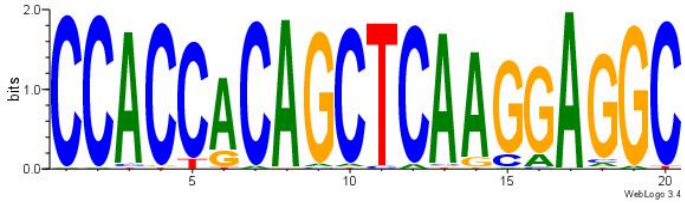

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

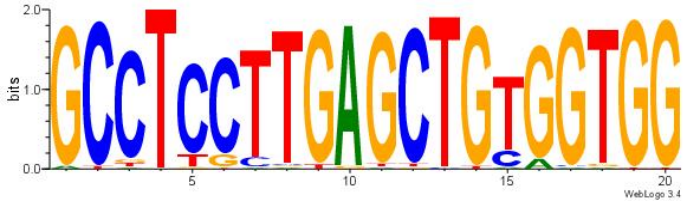

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0960086

Alignment:
AGGACTGAGGGTGCCYRGGG
--GCCTCAGTTTCCY-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

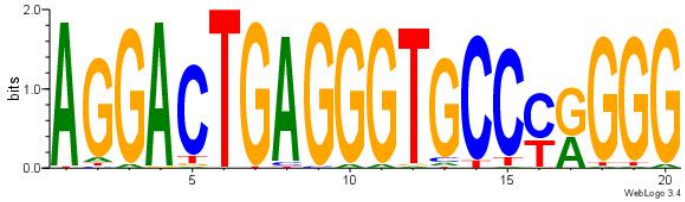

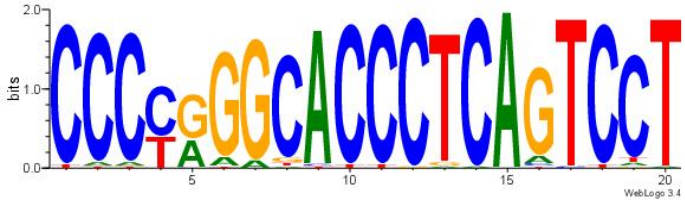

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0968604

Alignment:

```
GCCAATTTCTCCCATTTGGA
GCCTCAGTTTCCY-------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

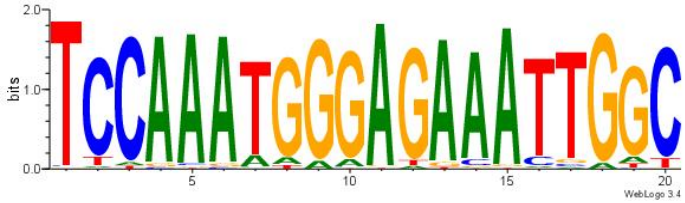

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

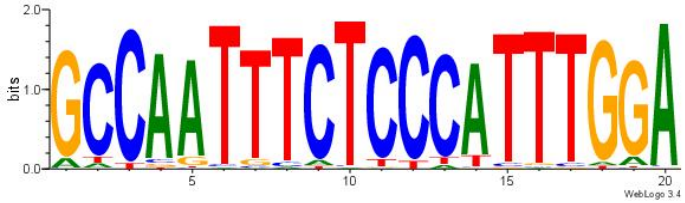

Dataset #:	1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0972258

Alignment:

```
GTACCTCAGWTGGAAATG
---GCCTCAGTTTCCY--
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

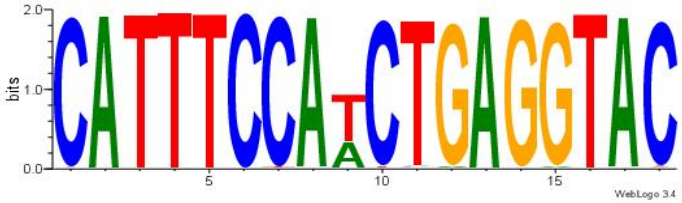

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

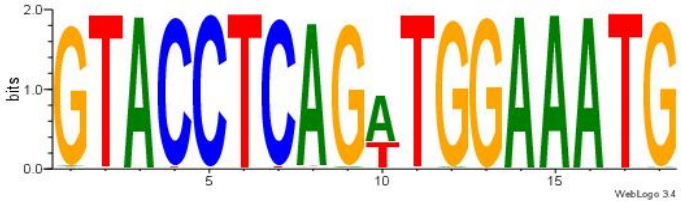

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.0977182

Alignment:
CCCGAAGCTGCRYRCTCGGT
-MGGAAACTGAGGC------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

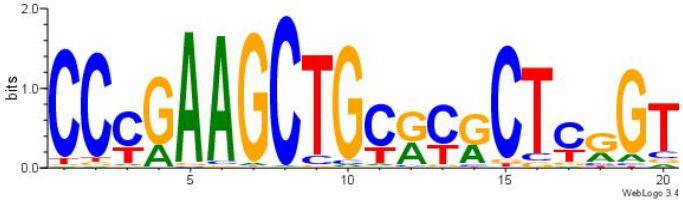

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

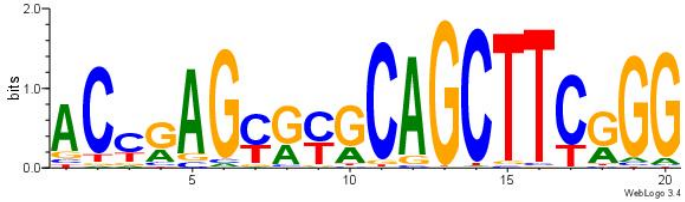

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.0983253

Alignment:
GCTGCARTCTCGGCACTTT
GCCTCAGTTTCCY------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

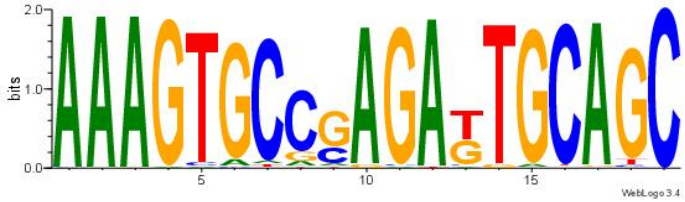

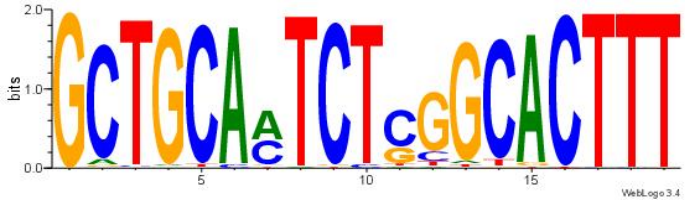

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0986121

Alignment:

```
GCACATGTAYCCYAGAACTT
GCCTCAGTTTCCY-------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

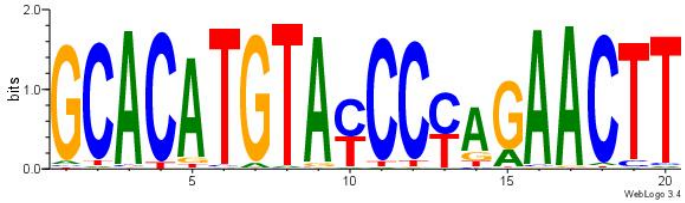

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

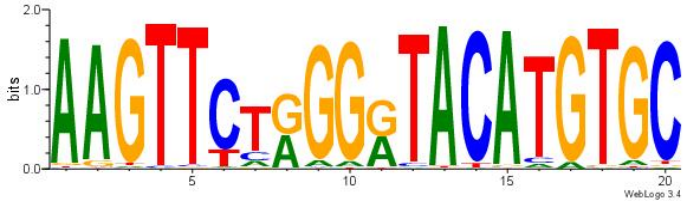

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0992203

Alignment:

```
GGGAGGAAGGGGACAC
---MGGAAACTGAGGC
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

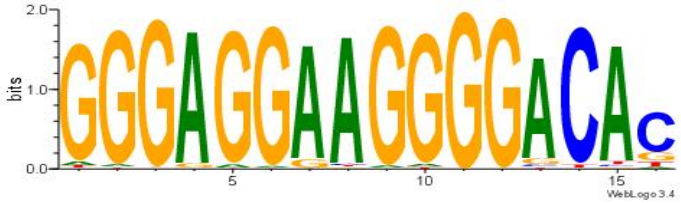

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

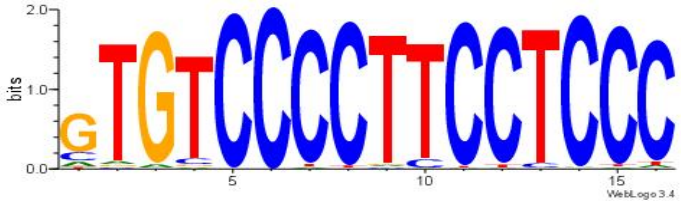

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.100874

Alignment:
GAGACTCCGTGGGCGT
-GCCTCAGTTTCCY--

Original motif Consensus sequence: ACGCCCACGGAGTCTC

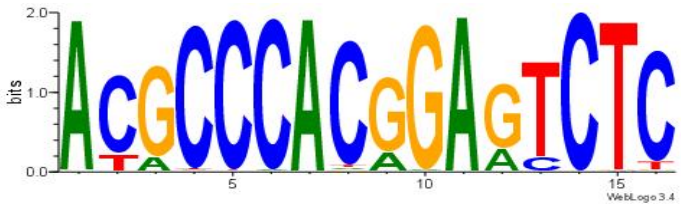

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

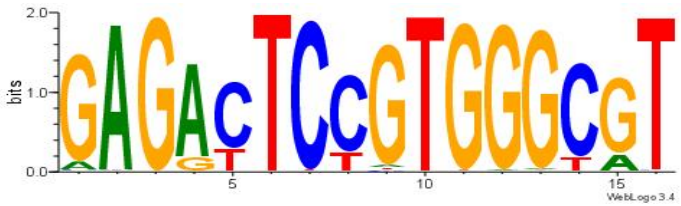

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.101863

Alignment:
ATCATTCTTATGCCTTTG
MGGAAACTGAGGC-----

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

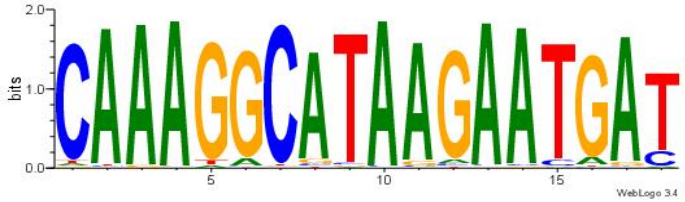

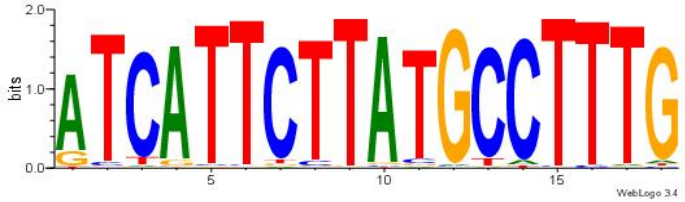

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.102006

Alignment:

```
TGAGKCAATTAAACCTCTT
--MGGAAACTGAGGC----
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

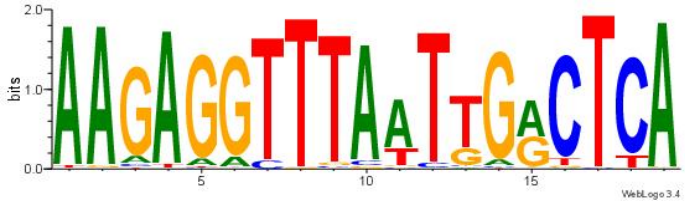

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

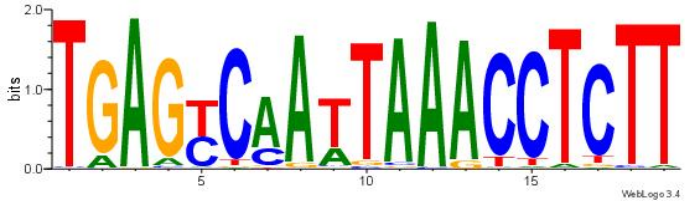

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.102342

Alignment:

```
CGGCTTCATTCTTGAAGTC
--GCCTCAGTTTCCY----
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

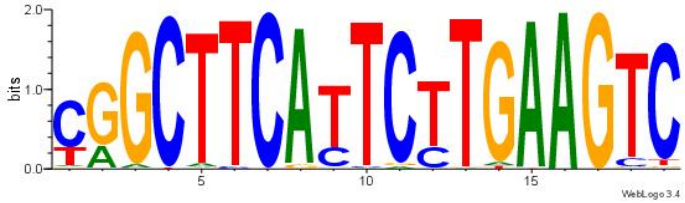

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.103161

Alignment:
AAGCTCGAACTGGGTGGAGC
---MGGAAACTGAGGC----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

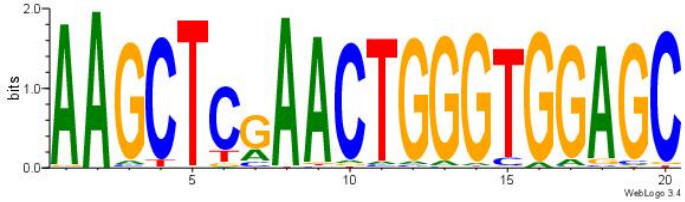

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

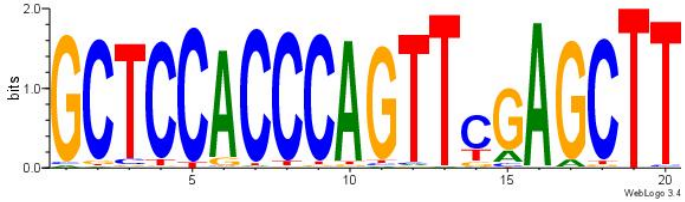

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.103528

Alignment:
AAAMAMMKMATGTTCTCACT
----GCCTCAGTTTCCY---

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

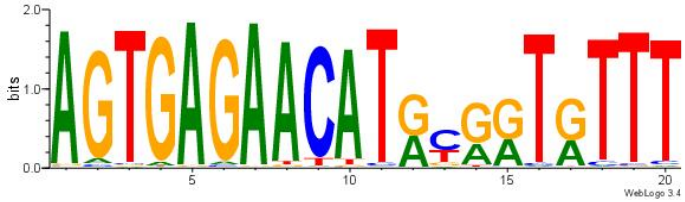

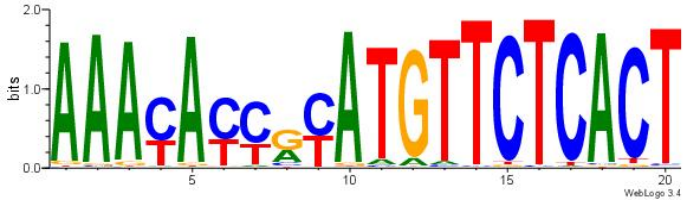

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.103715

Alignment:
GCAGCAMTATTCACAATAG
GCCTCAGTTTCCY------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

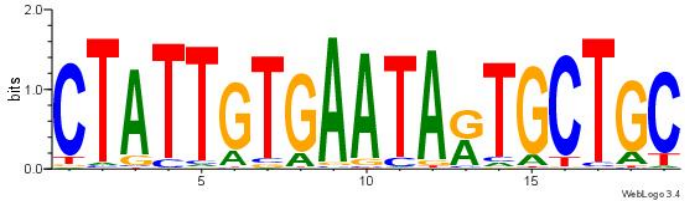

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

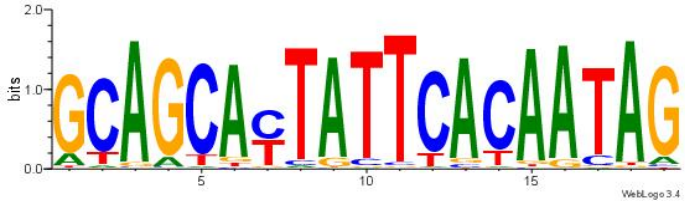

Dataset #: 1

Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.104476

Alignment:

```
CCCTACTGTTCTCY
-GCCTCAGTTTCCY
```

Original motif Consensus sequence: CCCTACTGTTCTCY

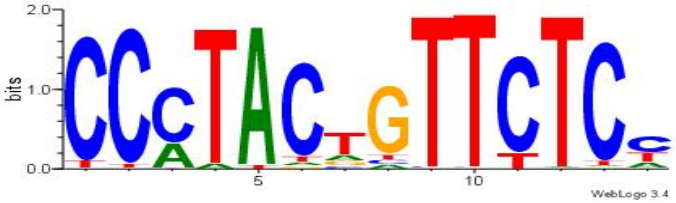

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.104804

Alignment:
AAGGAACAAACTCCRGACAC
----MGGAAACTGAGGC---

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

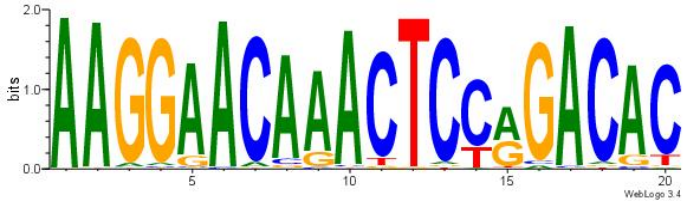

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

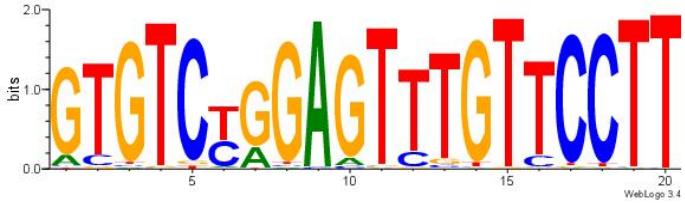

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.10537

Alignment:
GCCGGGRAGAGGCGCTCCT
--MGGAAACTGAGGC----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

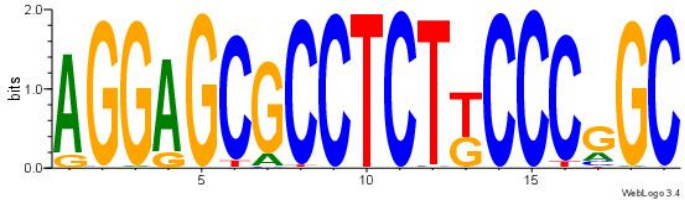

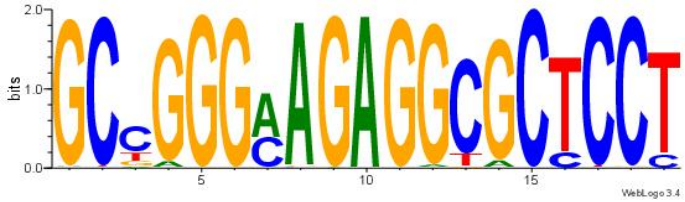

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.105845

Alignment:

```
GTAGACKGGAGCTGTTCCT
-----MGGAAACTGAGGC-
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

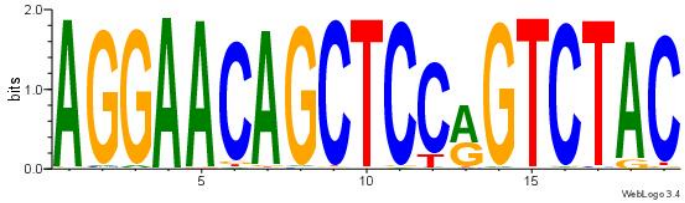

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

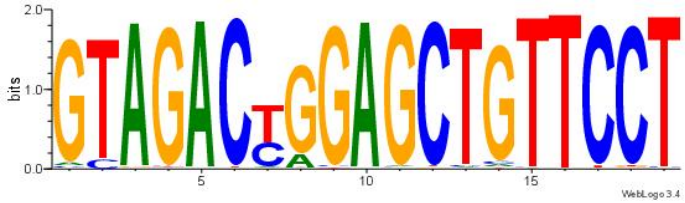

Dataset #:	1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.106135

Alignment:

```
CTTCGCTGACTCTCTTT
---GCCTCAGTTTCCY-
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

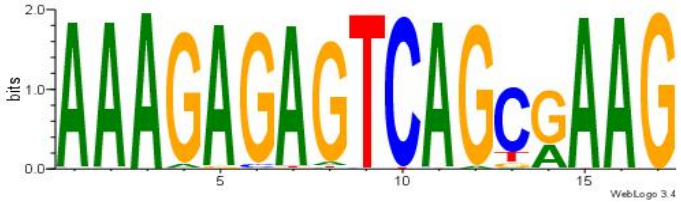

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

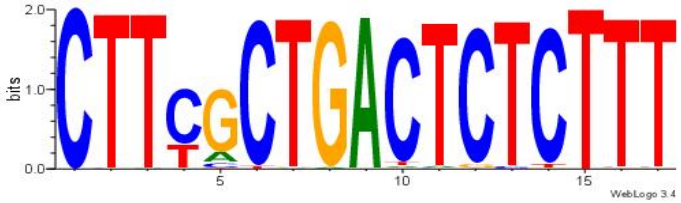

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.106319

Alignment:
GCACTCTGTMTCTAGCT
-GCCTCAGTTTCCY---

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

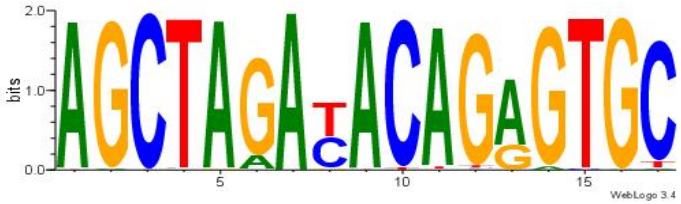

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

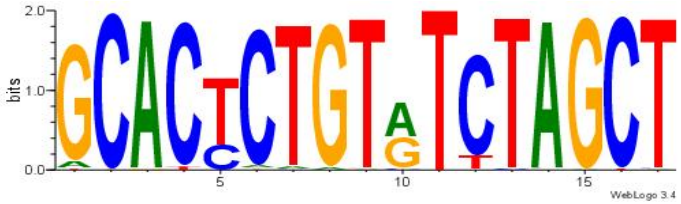

Dataset #: 1
Motif ID: 257
Motif name: Motif 257
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.10687

Alignment:
GAGAACACATGGACA
-MGGAAACTGAGGC-

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

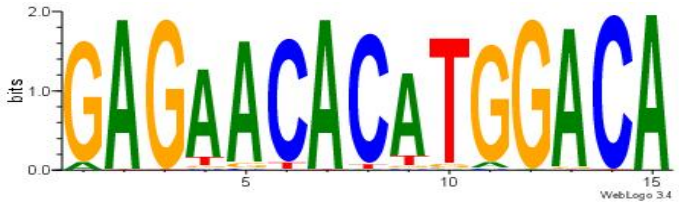

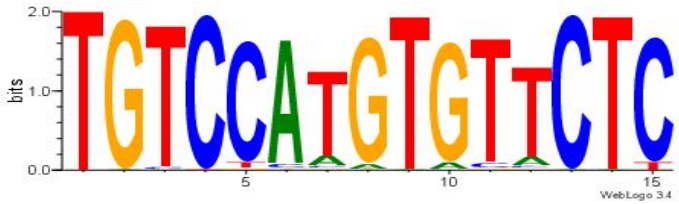

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10713

Alignment:

```
KGCAACCTAGATCCCT
---GCCTCAGTTTCCY
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

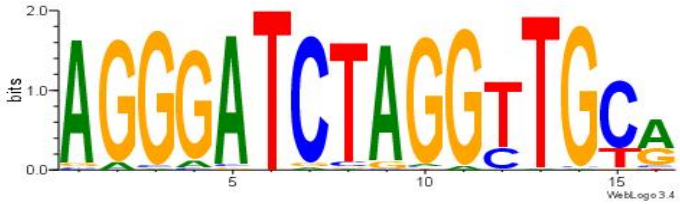

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

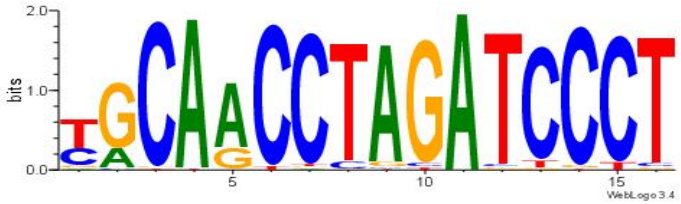

Dataset #:	1

Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.107547

Alignment:

```
CAGTCTGTGTCTTTTAATT
GCCTCAGTTTCCY------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

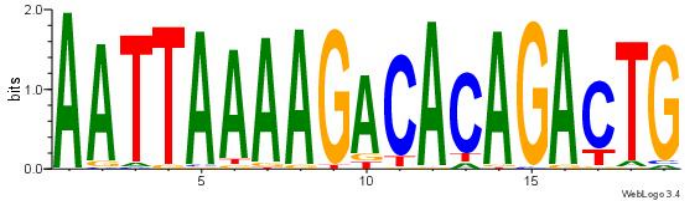

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

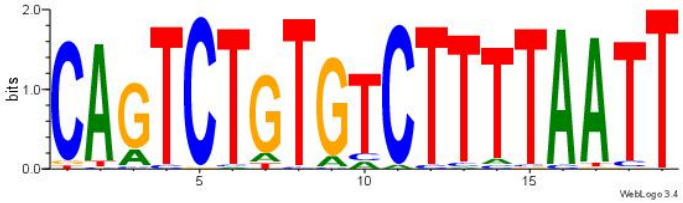

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.108367

Alignment:
ATGGAATAYTATTCAGCCAT
-MGGAAACTGAGGC------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

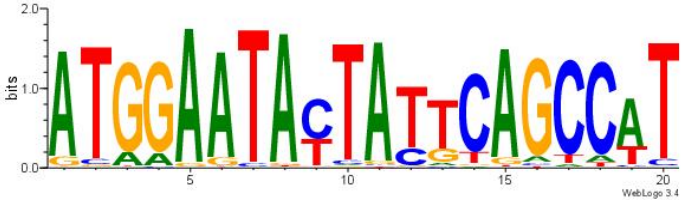

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

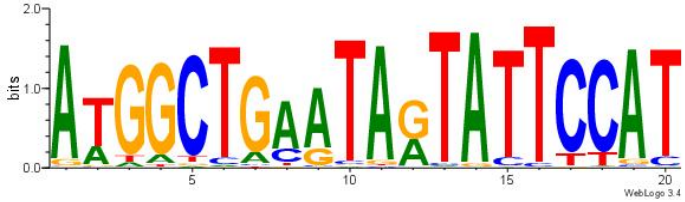

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.108396

Alignment:
TCTCTCTCTCTCTCTCTCTC
-----GCCTCAGTTTCCY--

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

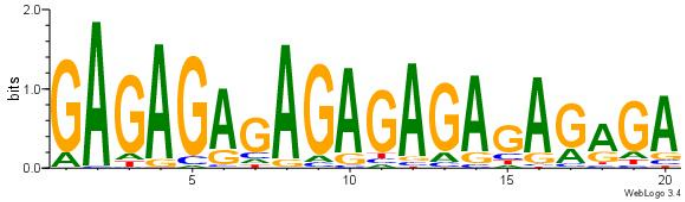

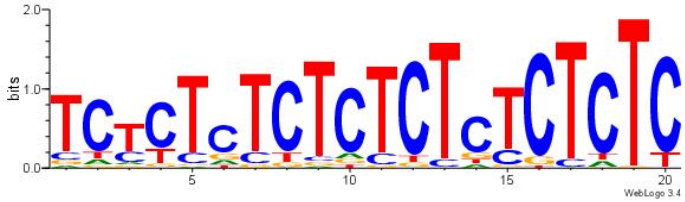

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.108855

Alignment:

```
GCTGTGTGACCTTGGGCAAG
----MGGAAACTGAGGC---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

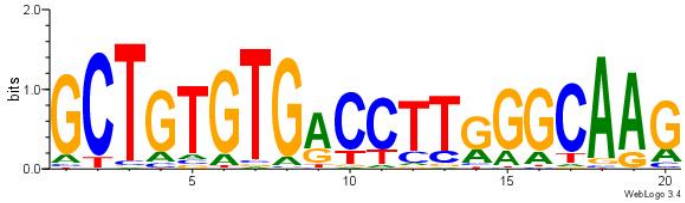

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

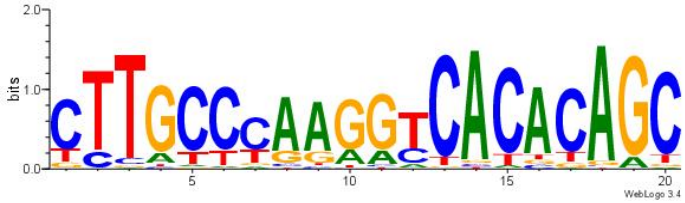

Dataset #: 1 Motif ID: 48 Motif name: Motif 48

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

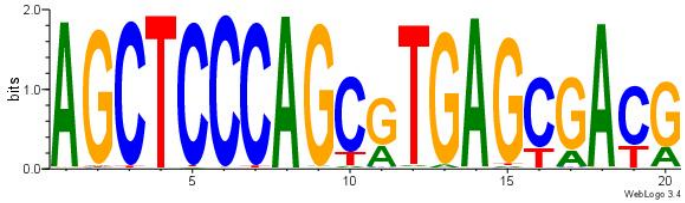

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

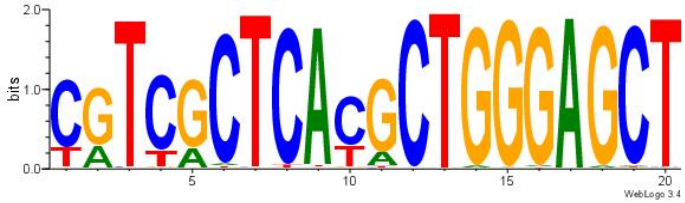

Best Matches for Motif ID 48 (Highest to Lowest)

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113918

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AGCTCCCAGCGTGAGCGACG
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

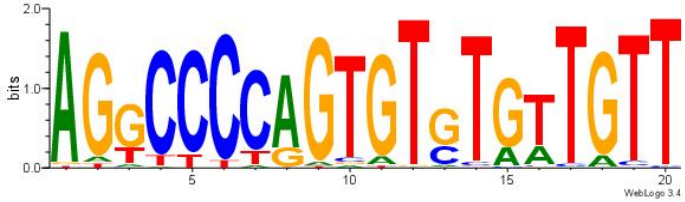

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

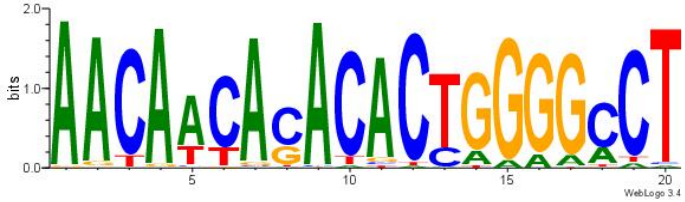

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121076

Alignment:
CCCMKGGCACCCTCAGTCCT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

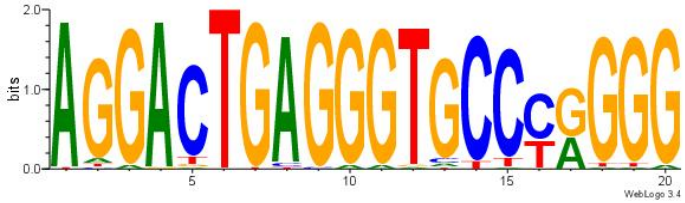

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

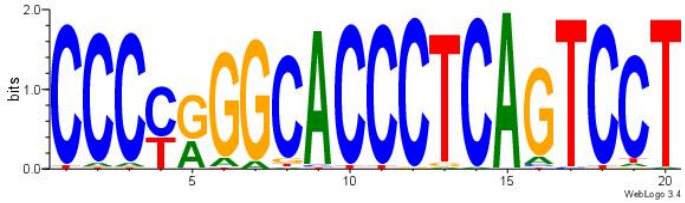

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward

Position number:	1
Number of overlap:	20
Similarity score:	0.123602

Alignment:
GGTTCATCTCACTAGGGAGT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

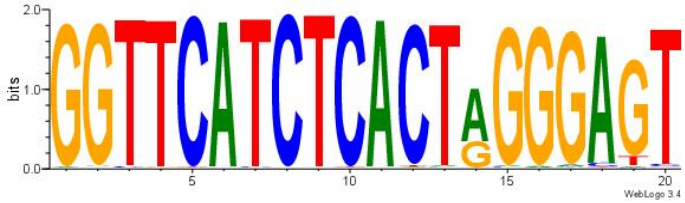

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

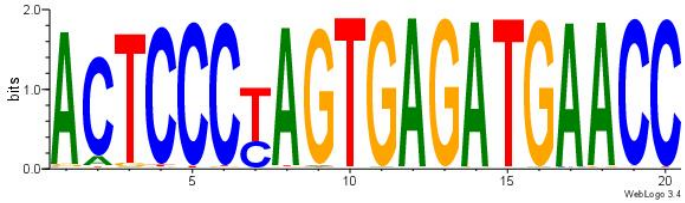

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124233

Alignment:
ARCTCCTGKSCTCAAGKGAT
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

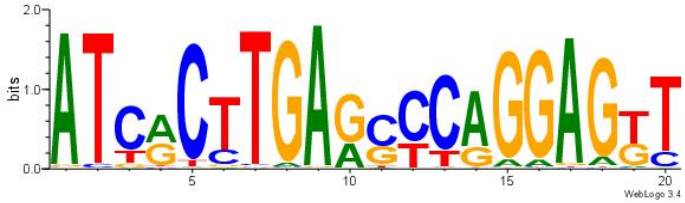

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

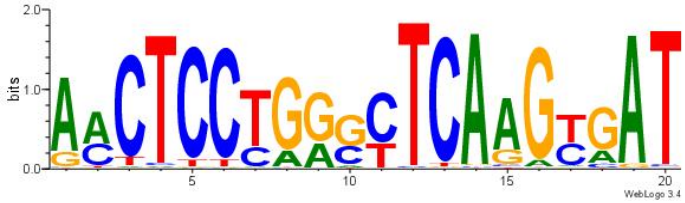

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129197

Alignment:

```
KKCACCTTGATCTTGGACTT
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

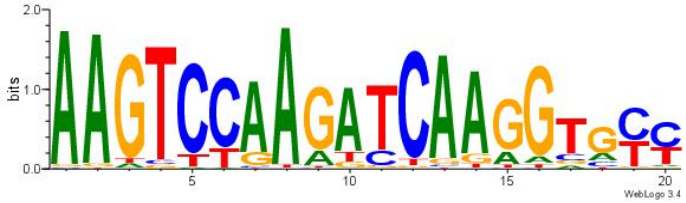

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

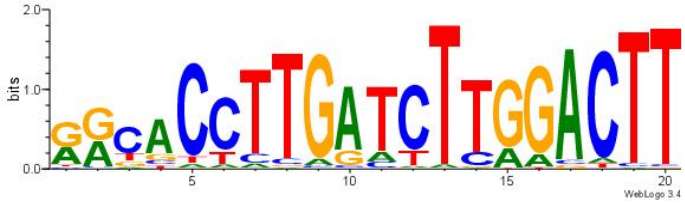

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134119

Alignment:
AGCTCMKCCTCCTGTCAGAT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

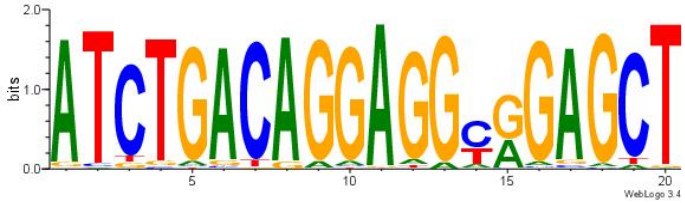

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

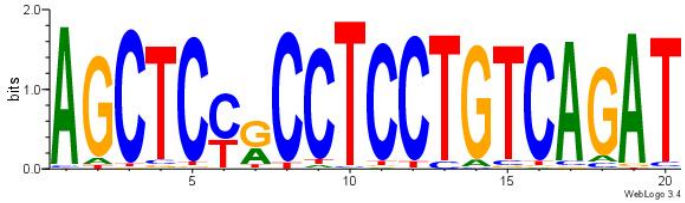

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.13627

Alignment:
GCTGGCCCGCAAGCGCCGCG
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

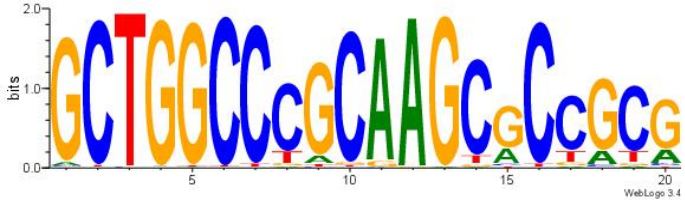

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

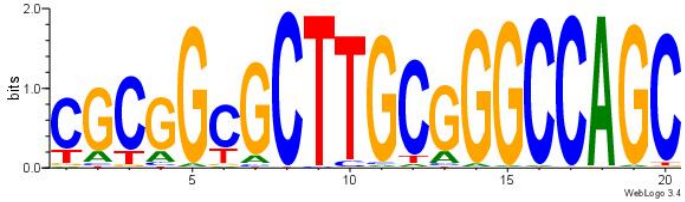

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136358

Alignment:
CGGCGCTGMGCTCGATTTCT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

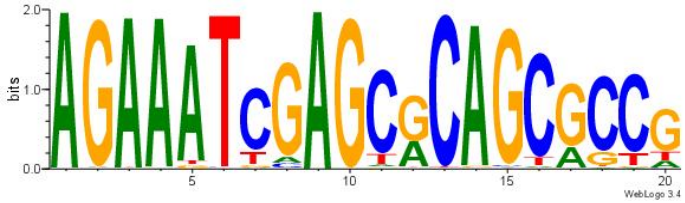

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

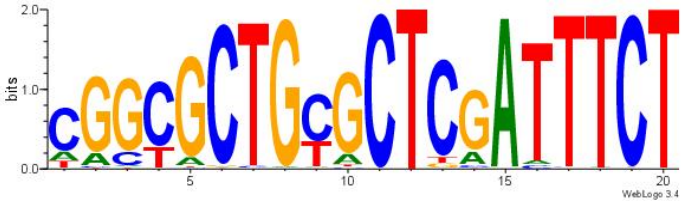

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136699

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

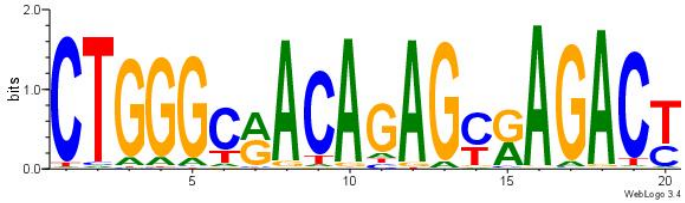

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

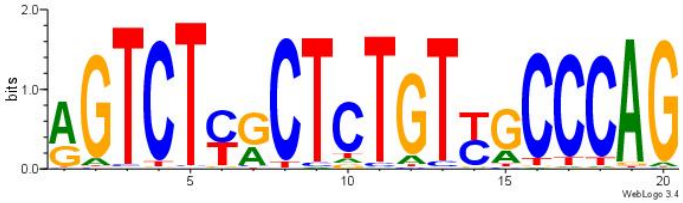

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139084

Alignment:
GACTGGCAGGCAGCTCCACC
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

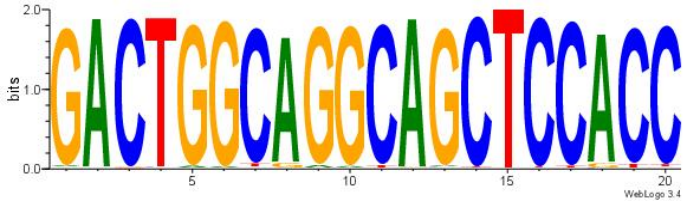

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

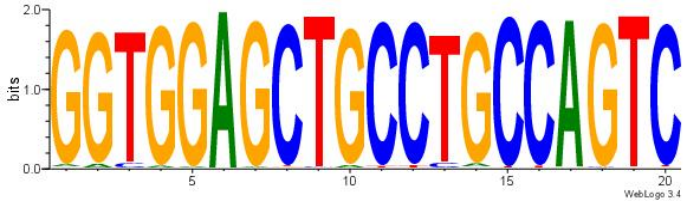

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.140978

Alignment:
AGTGACCCGATTTTCCAGGT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

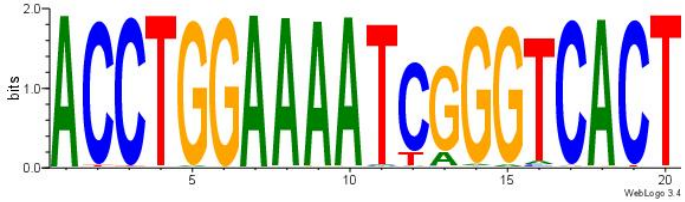

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

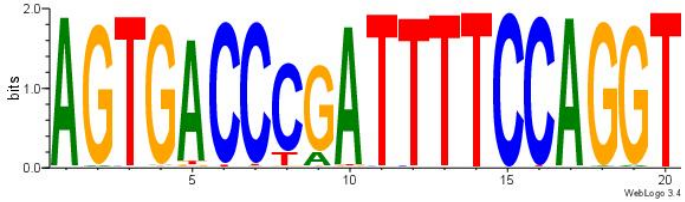

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140995

Alignment:
AGCCYCTGGYAACCAYYAWT
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

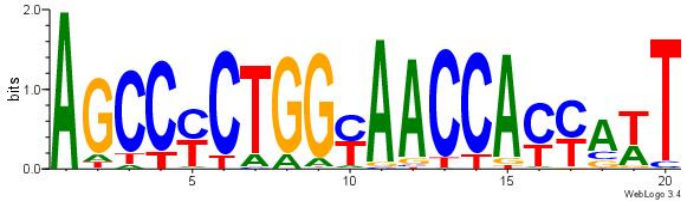

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

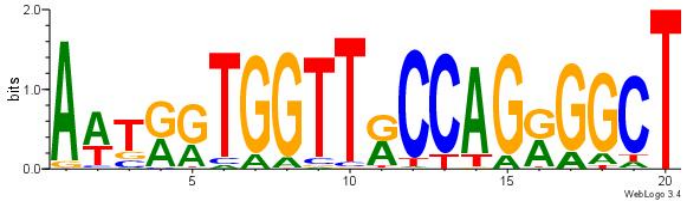

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143091

Alignment:

```
MTCCTCCAGACCCCAGAATG
AGCTCCCAGCGTGAGCGACG
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

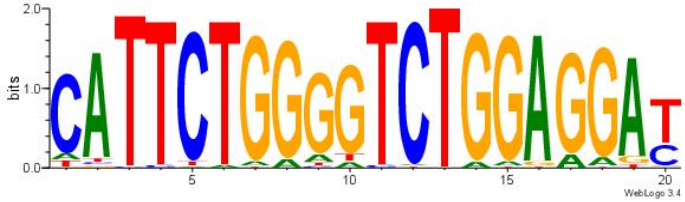

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

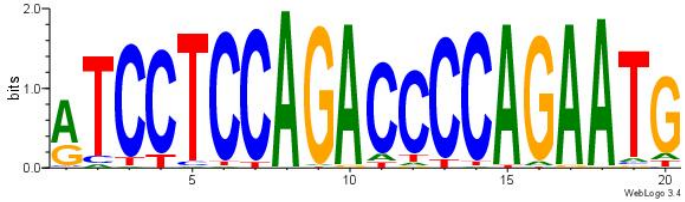

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143543

Alignment:
GCCKCCCCGTCCGGGAGGGA
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

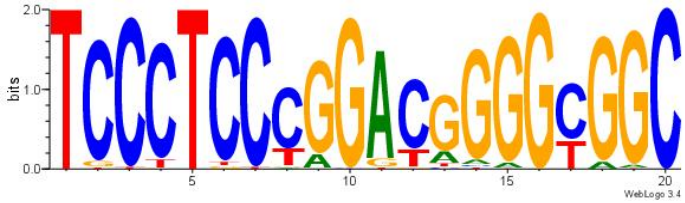

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

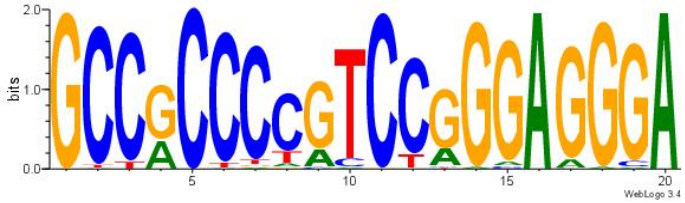

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.144316

Alignment:
TTGTCCCACTGGAAGGTCTT
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

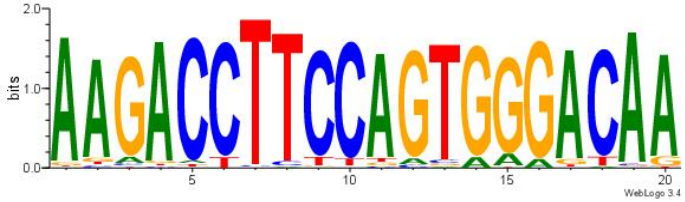

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

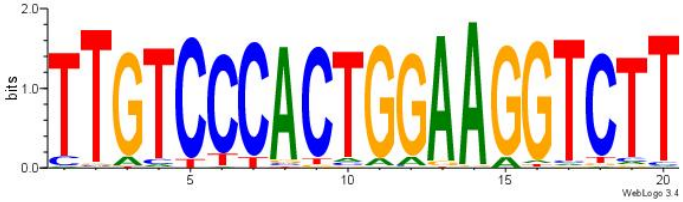

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146242

Alignment:
ATGATCCAGCAATYCCACTH
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

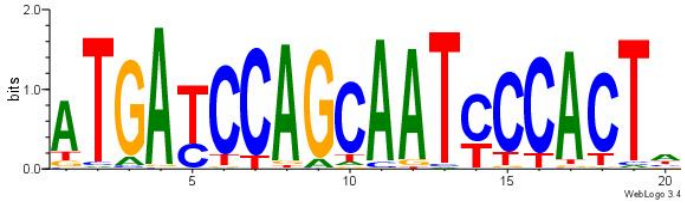

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

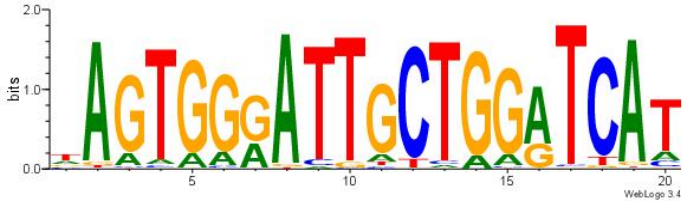

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147274

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

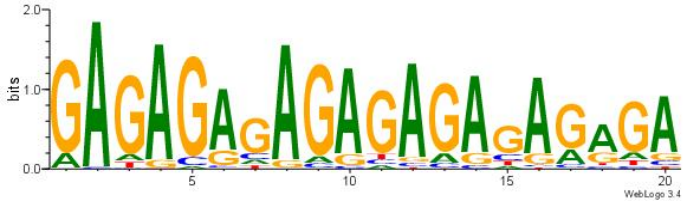

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

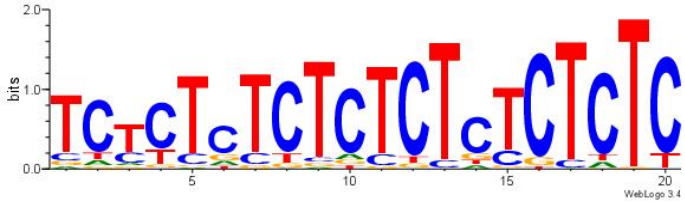

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148848

Alignment:
CTTGCCCAAGGTCACACAGC
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

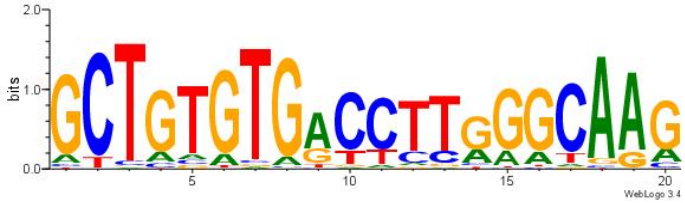

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

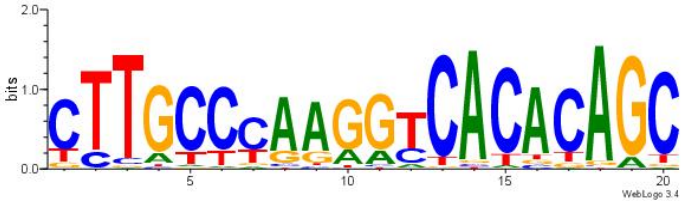

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.14952

Alignment:
AGGTCCTTCAGGAGGTATTC
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

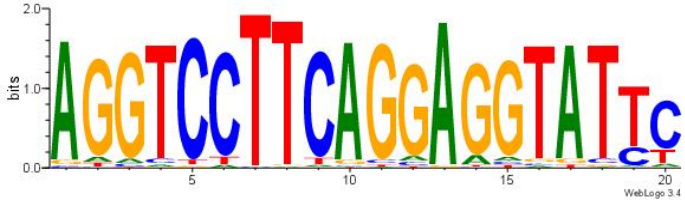

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

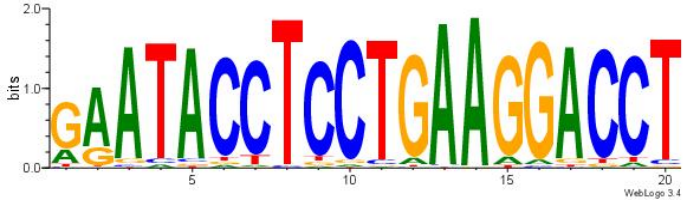

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151377

Alignment:
GGGCTCCCACAGTGCAGCGG
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

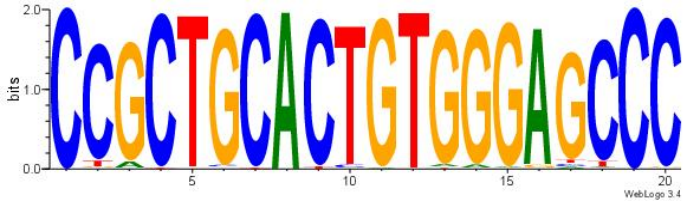

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

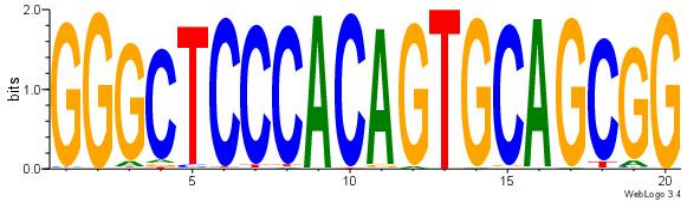

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152629

Alignment:

```
ACTGTCTTCCACCTCCACAT
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

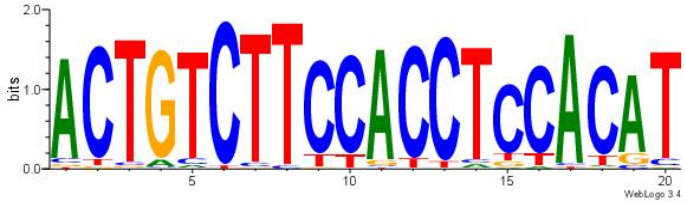

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

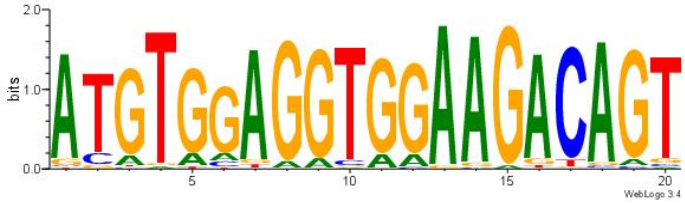

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153323

Alignment:

```
CCACCACAGCTCAAGGAGGC
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

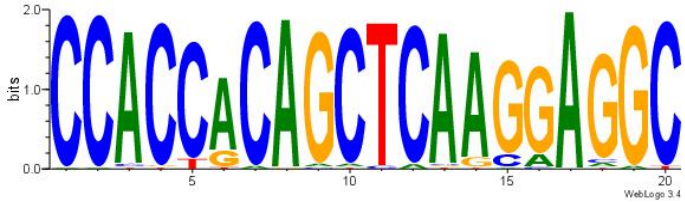

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

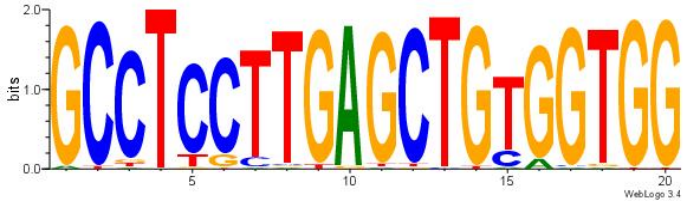

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.153348

Alignment:
GCCKGGMKCMGTGGCTCAKG
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

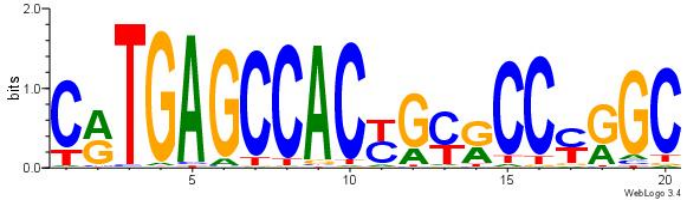

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

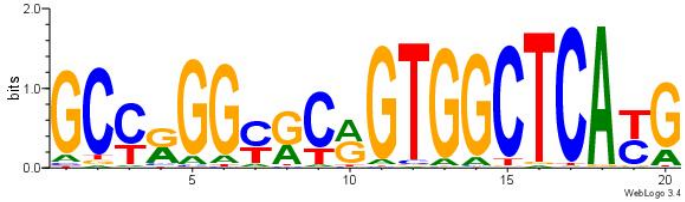

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154263

Alignment:
GTGGCCCTCTTCTCACAGCT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

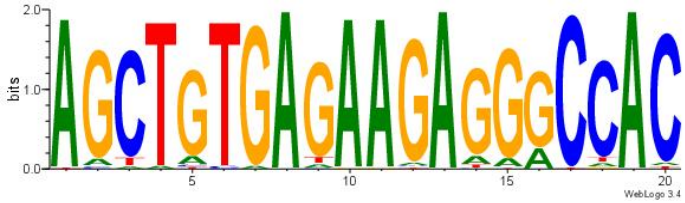

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

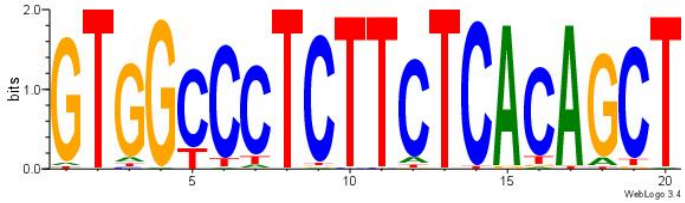

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156082

Alignment:

```
GCTCCACCCAGTTCGAGCTT
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

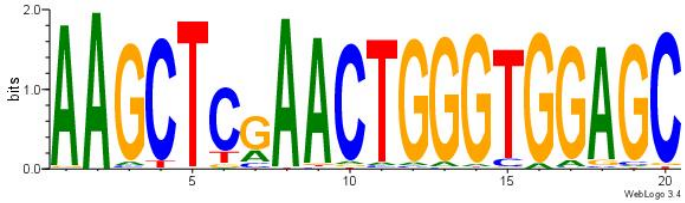

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

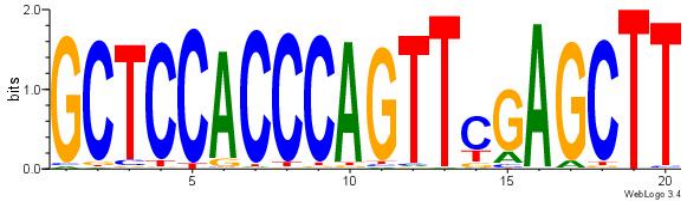

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156377

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

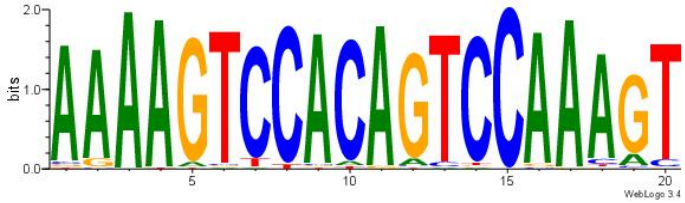

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

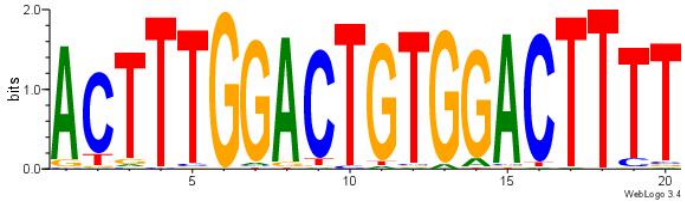

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.156792

Alignment:
GCACATGTAYCCYAGAACTT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

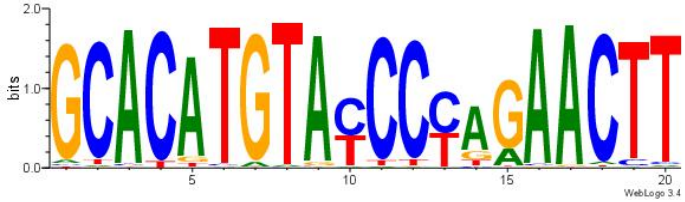

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

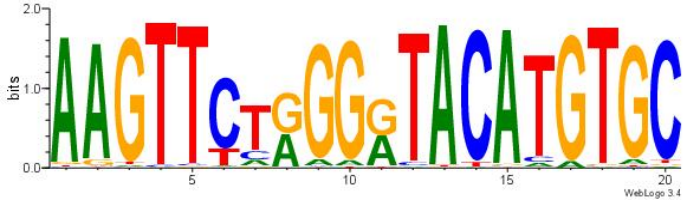

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156909

Alignment:
TGGCTTCACCCAGTGGATCC
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

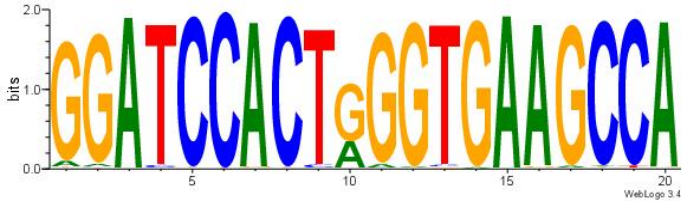

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

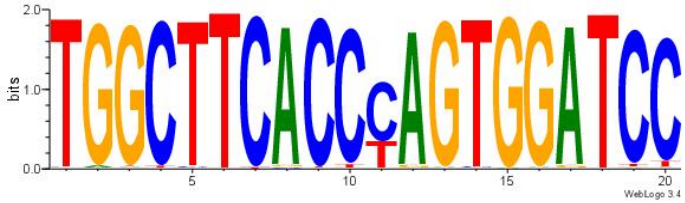

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158409

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

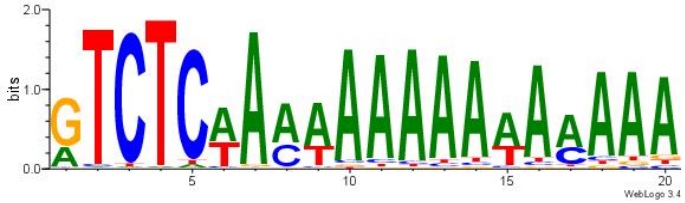

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

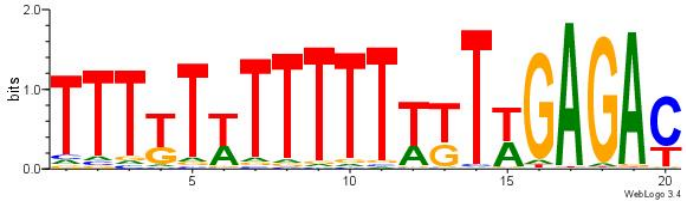

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1596

Alignment:
GGGTCAGGGAGTTCCCTTTC
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

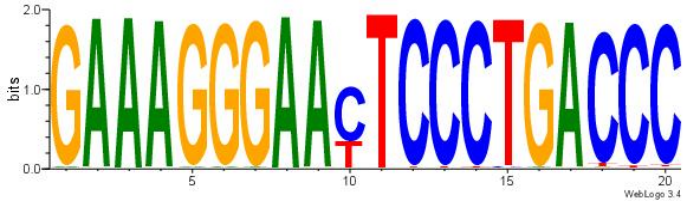

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

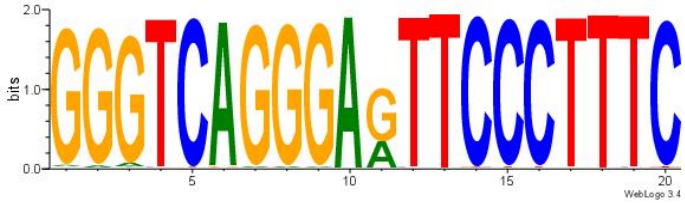

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.160132

Alignment:
CTGGGCTCCTGAGTCTGGTG
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

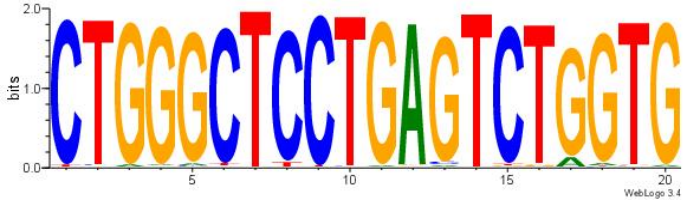

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

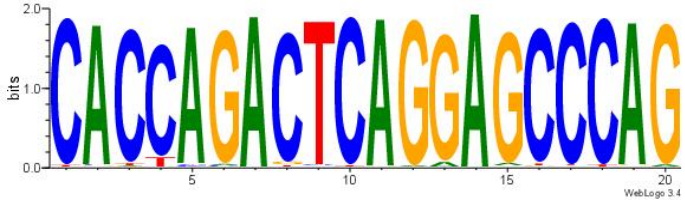

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160244

Alignment:
GTGCCAGGCACTGTKCTARG
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

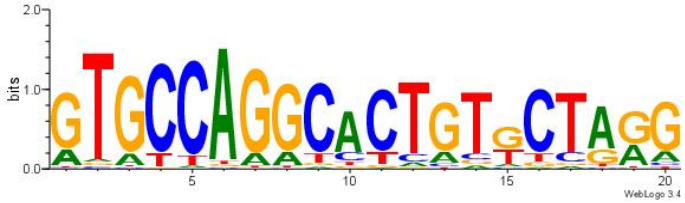

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

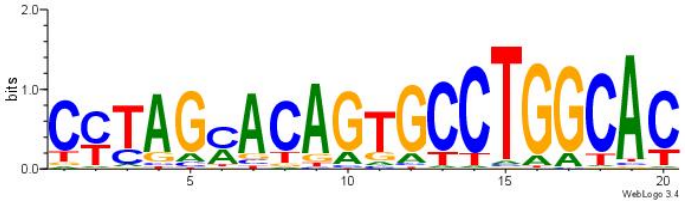

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160244

Alignment:

```
GCCAGTCACAAAARGACAMA
AGCTCCCAGCGTGAGCGACG
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

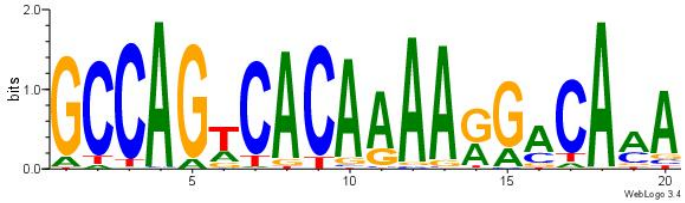

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

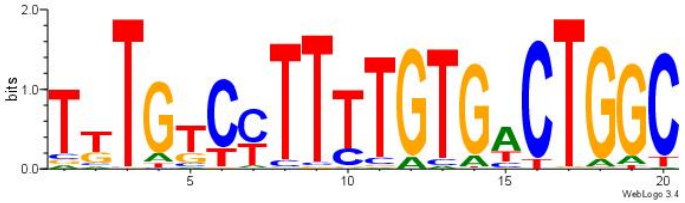

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160258

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

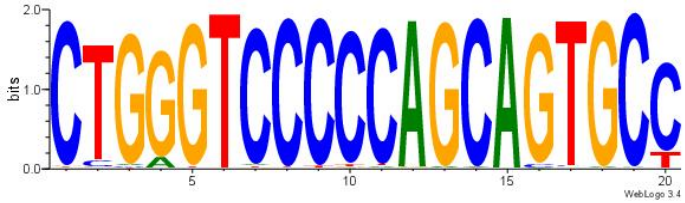

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

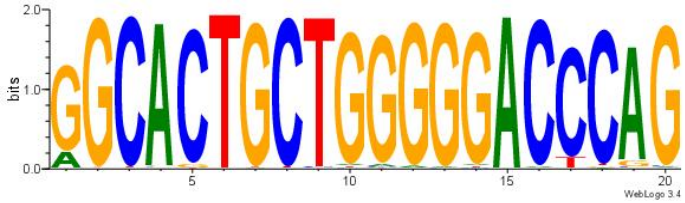

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.160384

Alignment:
MGGGATATAATCTCCTGGTG
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

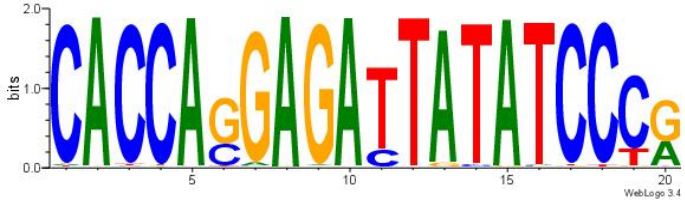

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

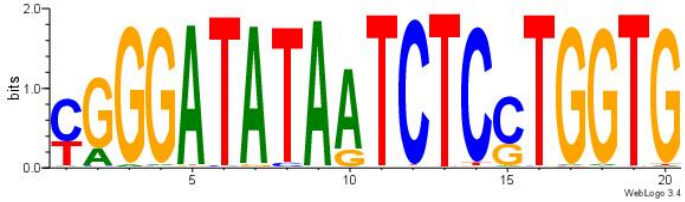

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162668

Alignment:
CGAGCCTCCCCGAYGAGCGC
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

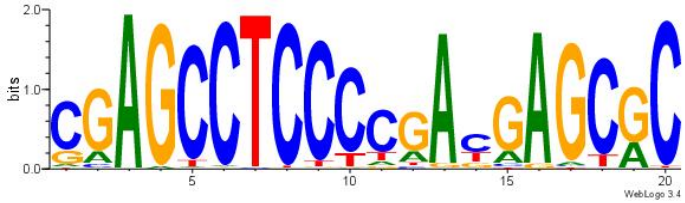

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

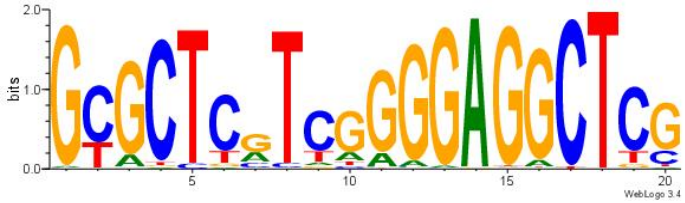

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163337

Alignment:

```
CCCATGCAAGTCYRAAATCC
CGTCGCTCACGCTGGGAGCT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

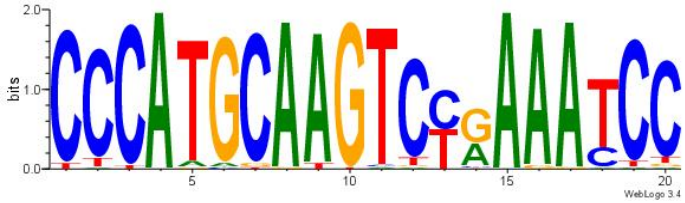

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

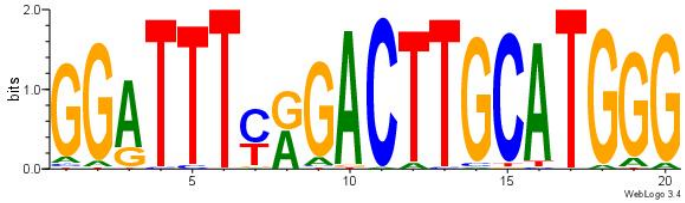

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163586

Alignment:
AGAGCCAAATCATGARTGAA
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

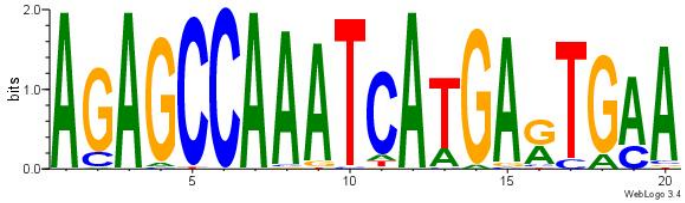

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

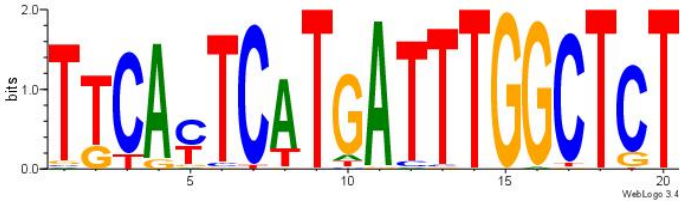

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.16437

Alignment:
TACCTGAGACTGGGTAATTT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

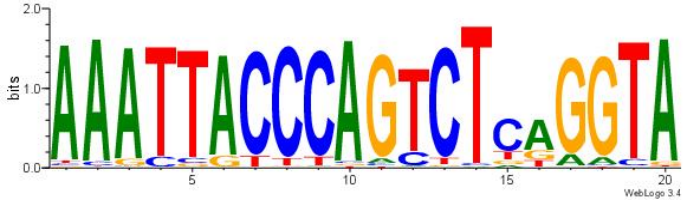

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

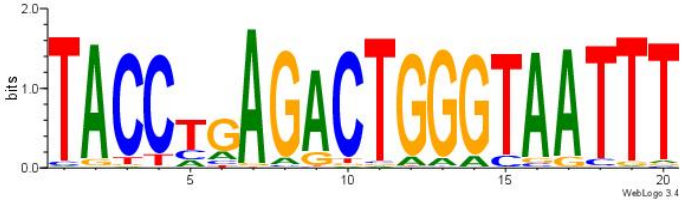

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164711

Alignment:
ATTGATMKCCAGGGTTGATT
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

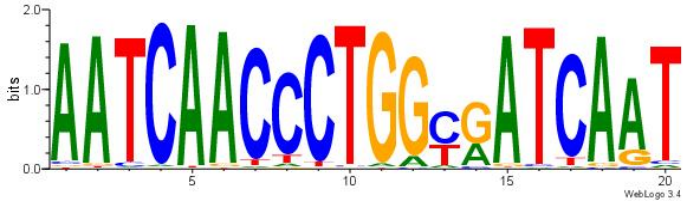

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

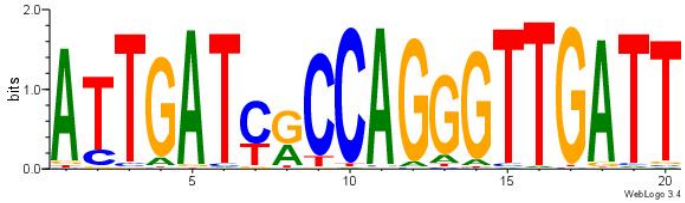

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165294

Alignment:

```
CTGGCCCTCAATGGTTAAAC
AGCTCCCAGCGTGAGCGACG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

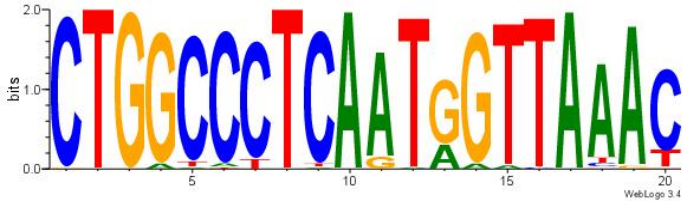

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

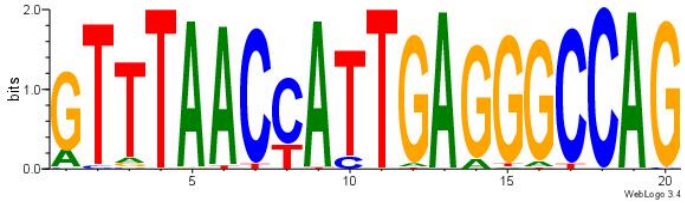

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165348

Alignment:
TWTACCTATGTAACAAACCT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

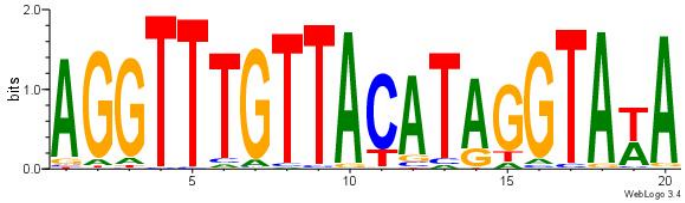

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

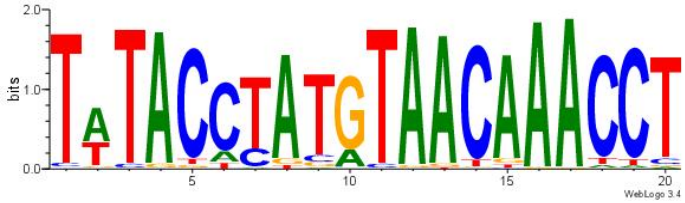

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.166404

Alignment:
TCKMGCCACTGCACTCCAGC
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

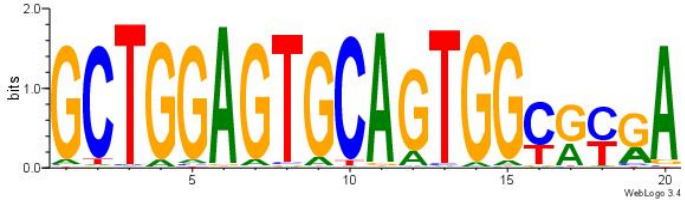

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

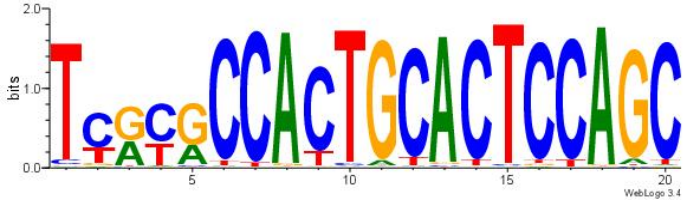

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166842

Alignment:
TGCTGGAGGTCCACTCCAGA
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

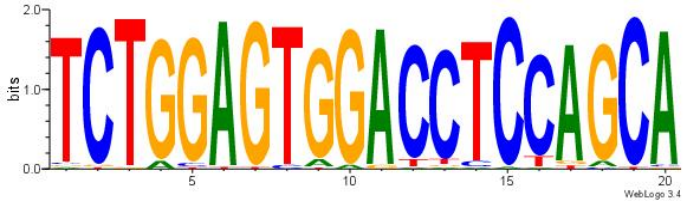

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

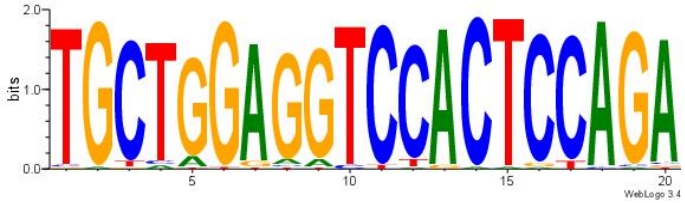

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167569

Alignment:

```
CCTGCCATTGCYSAGGCTTG
AGCTCCCAGCGTGAGCGACG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

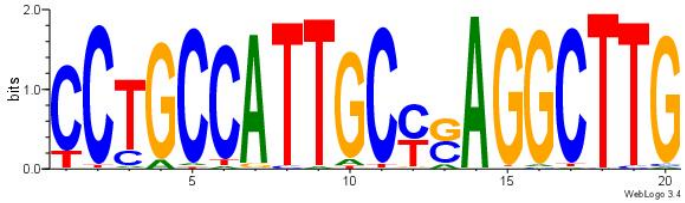

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

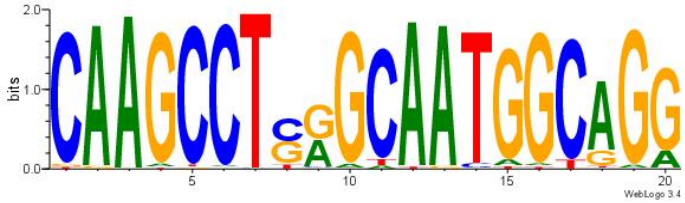

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16779

Alignment:
GGGAGGTGTCTCCCAGTCAG
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

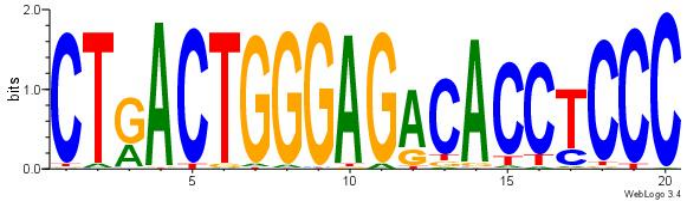

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

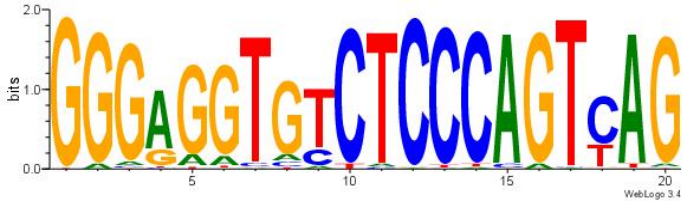

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.168267

Alignment:
AAAATCACAAGCATTCCTAT
CGTCGCTCACGCTGGGAGCT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

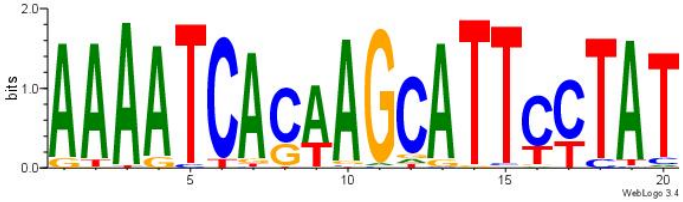

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

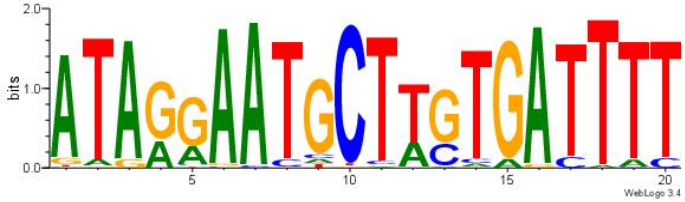

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.168779

Alignment:
CTCCAGKTMCATCCATGTTG
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

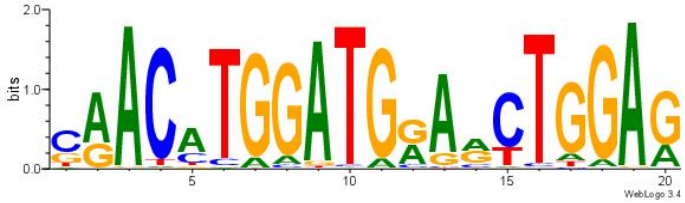

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

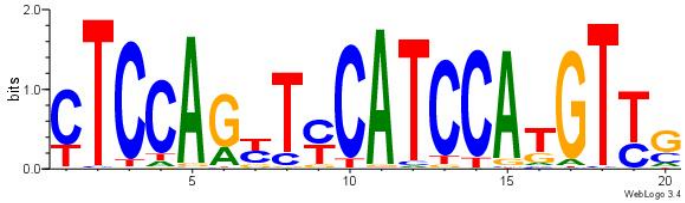

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.170276

Alignment:

```
GCCTCTCCCTCCACACCTCC
AGCTCCCAGCGTGAGCGACG
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

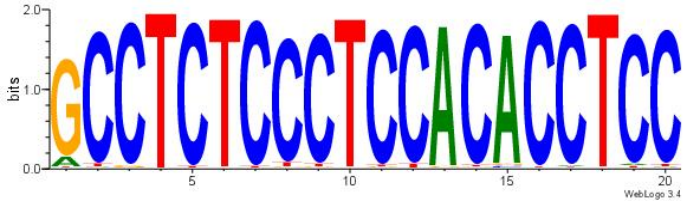

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

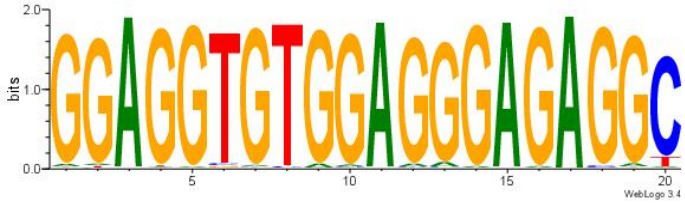

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.17099

Alignment:
VMATTTAKTGAGCACCTACT
AGCTCCCAGCGTGAGCGACG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

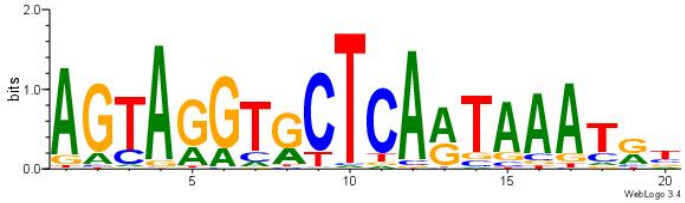

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

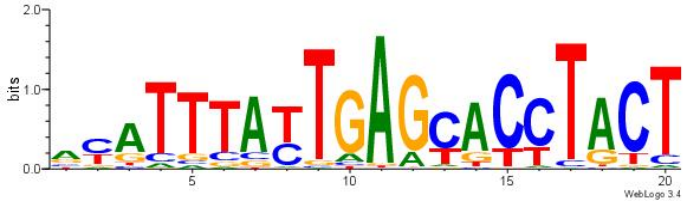

Dataset #: 1 Motif ID: 49 Motif name: Motif 49

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

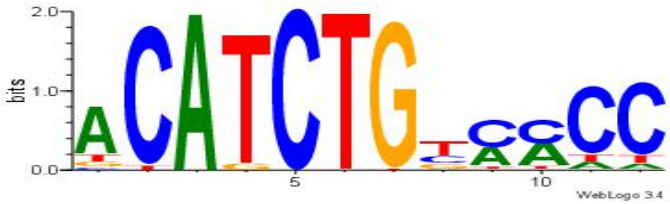

Best Matches for Motif ID 49 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0495311

Alignment:

```
GGGGTGACAGABGB
GGRRMCAGATGT--
```

Original motif Consensus sequence: GGGGTGACAGABGB

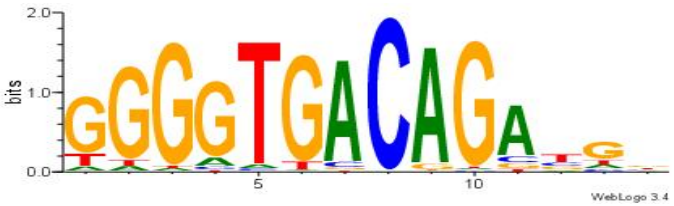

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

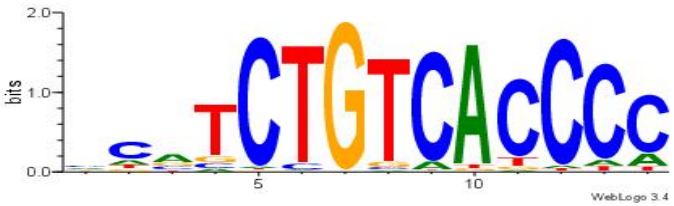

Dataset #: 1

Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0505389

Alignment:

```
ACAGCTGGCACC
ACATCTGYMMCC
```

Original motif Consensus sequence: ACAGCTGGCACC

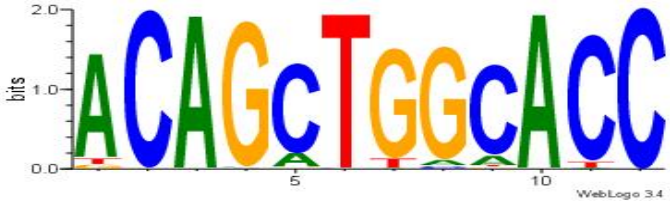

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

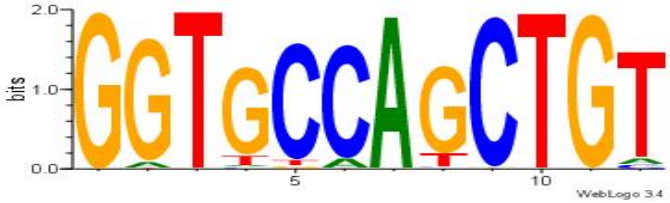

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0662574

Alignment:
GGGASCACATGG
GGRRMCAGATGT

Original motif Consensus sequence: CCATGTGSTCCC

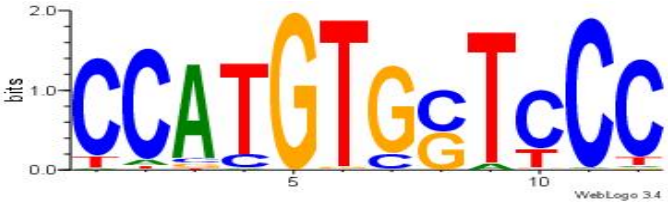

Reverse complement motif Consensus sequence: GGGASCACATGG

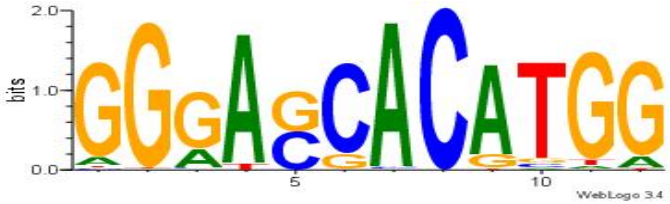

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0777612

Alignment:
GCACATGTAYCCYAGAACTT
--ACATCTGYMMCC------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

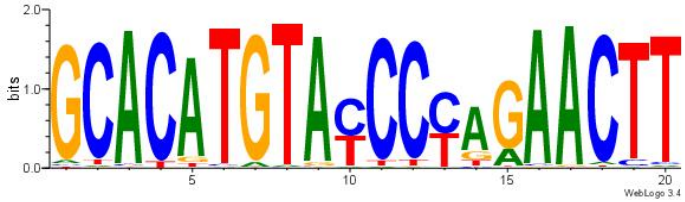

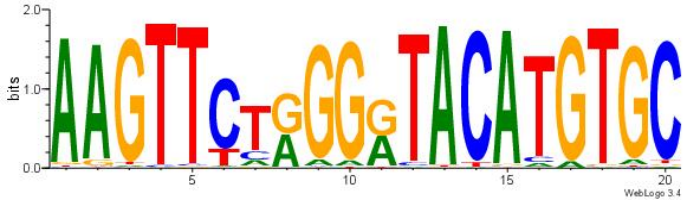

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0790361

Alignment:

```
GAGAACACATGGACA
GGRRMCAGATGT---
```

Original motif Consensus sequence: GAGAACACATGGACA

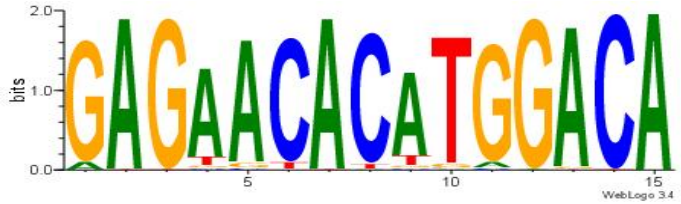

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

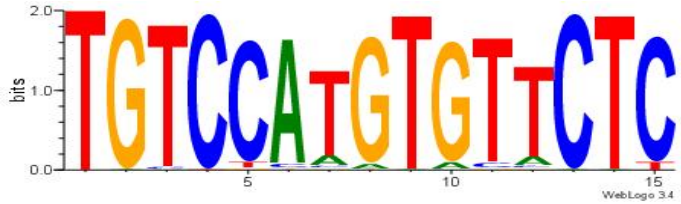

Dataset #:	1
Motif ID:	29

Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0796411

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
---ACATCTGYMMCC-----
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

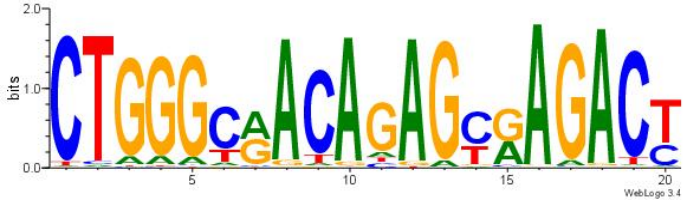

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

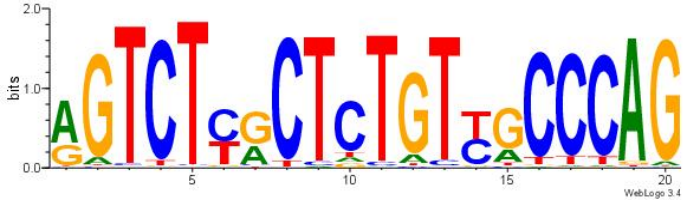

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0800418

Alignment:
MGGAAACTGAGGC
-GGRRMCAGATGT

Original motif Consensus sequence: GCCTCAGTTTCCY

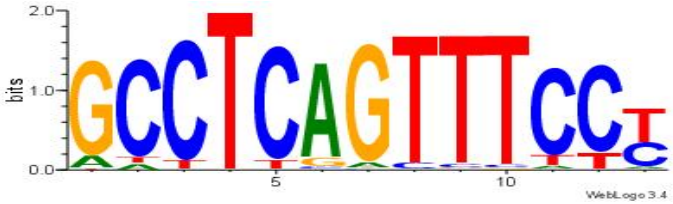

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

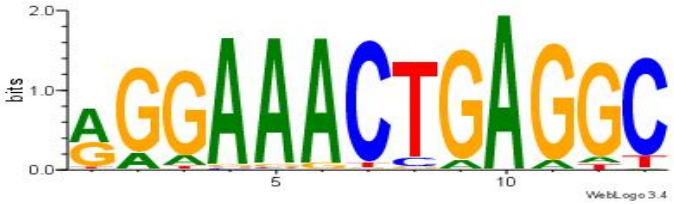

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0808671

Alignment:
TMGGGAGGCTGAGGCAGGAG
---GGRRMCAGATGT-----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

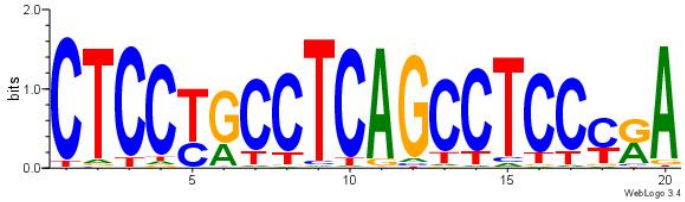

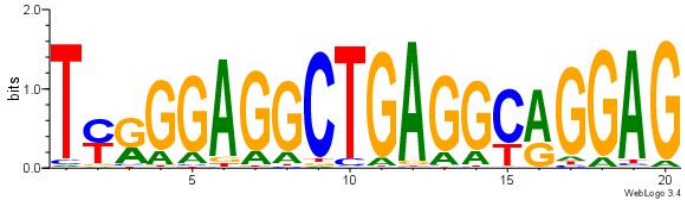

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0818568

Alignment:

```
GTGTGCGAATAGGTGT
----GGRRMCAGATGT
```

Original motif Consensus sequence: ACACCTATTCGCACAC

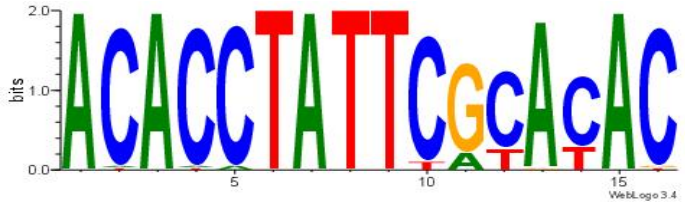

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

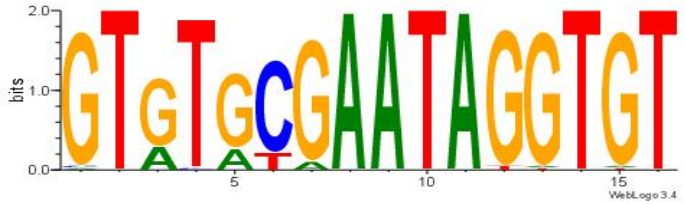

Dataset #:	1

Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0833635

Alignment:

```
GGGRSCACAGGAGCD
GGRRMCAGATGT---
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

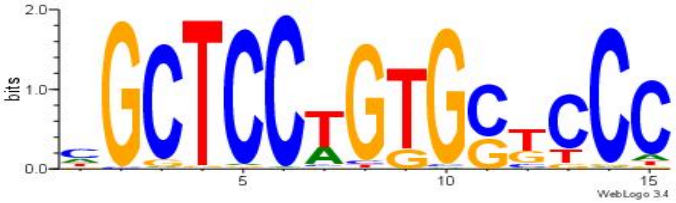

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0835964

Alignment:
ACATCMTCTGAAATCTAGG
---ACATCTGYMMCC----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

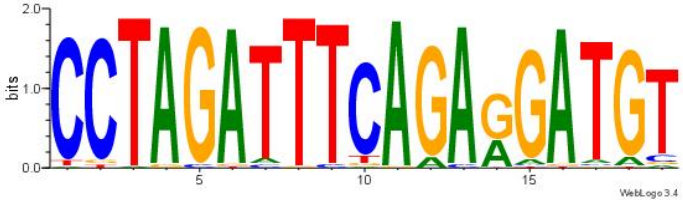

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

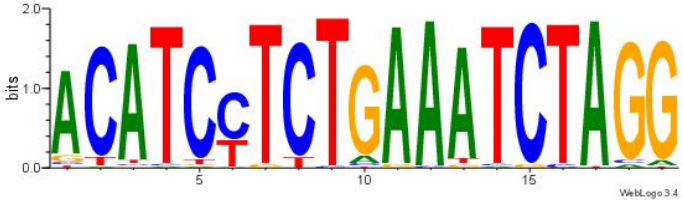

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0839207

Alignment:
ACTCAGCCCRCCTGCACCC
-------ACATCTGYMMCC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

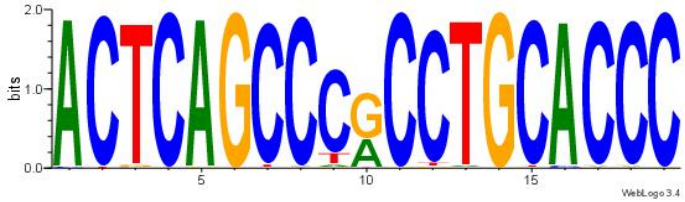

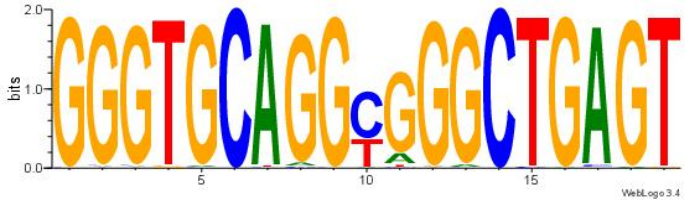

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0844026

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--------GGRRMCAGATGT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

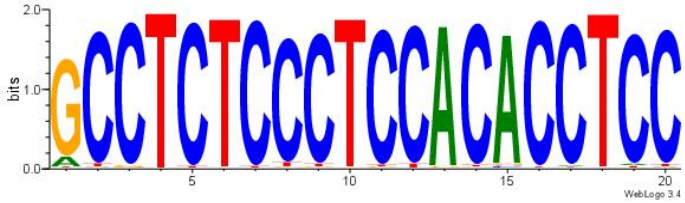

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

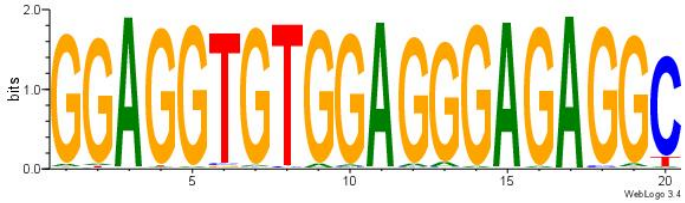

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0875391

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
-GGRRMCAGATGT-------
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

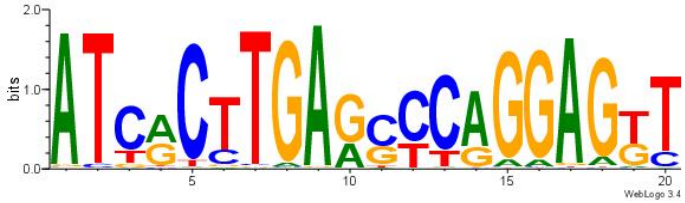

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

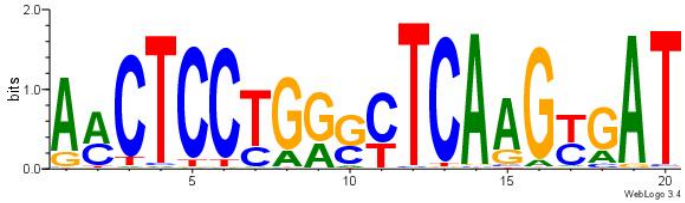

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0881577

Alignment:
AGTGACCCGATTTTCCAGGT
-GGRRMCAGATGT-------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

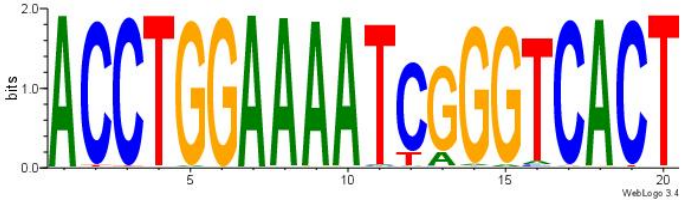

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

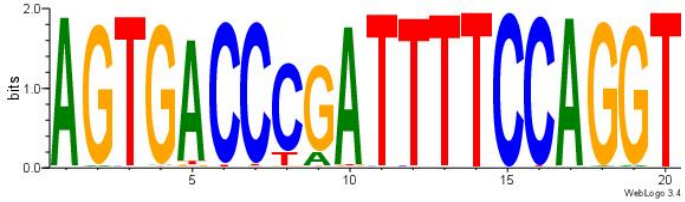

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0883696

Alignment:
GTCCCATCGACCACCCAAG
---ACATCTGYMMCC----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

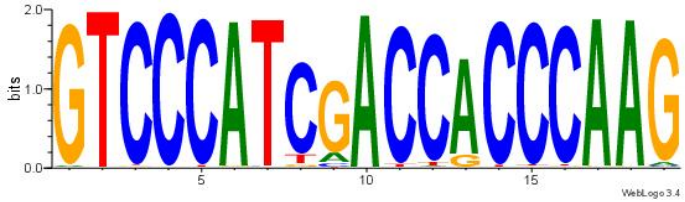

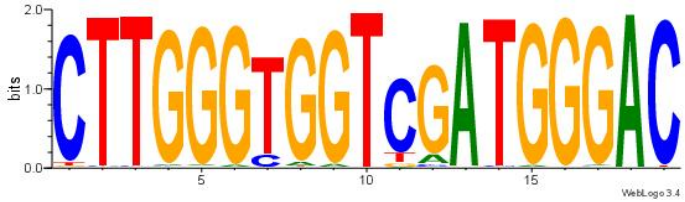

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0888986

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---ACATCTGYMMCC-----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

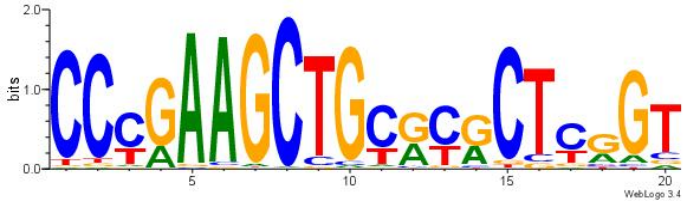

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

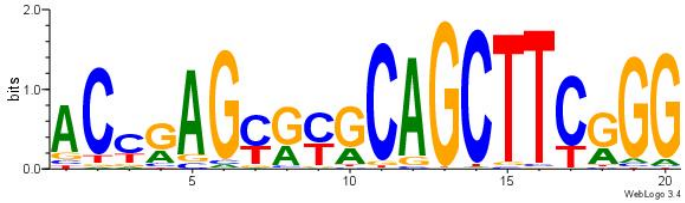

Dataset #:	1

Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0895578

Alignment:

```
GAGGAGGRGGAGGDGGV
-----GGRRMCAGATGT
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

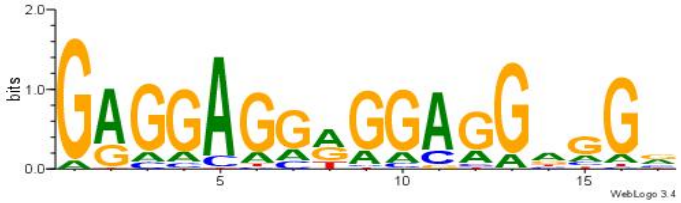

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

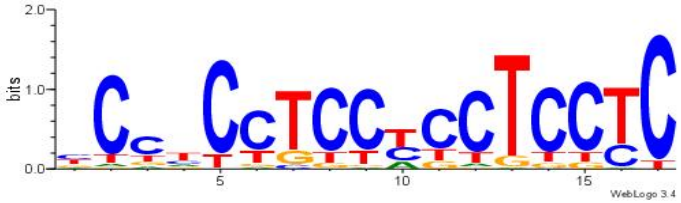

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.0900559

Alignment:
TWTACCTATGTAACAAACCT
---ACATCTGYMMCC-----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

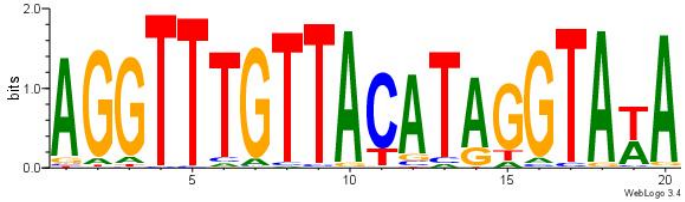

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

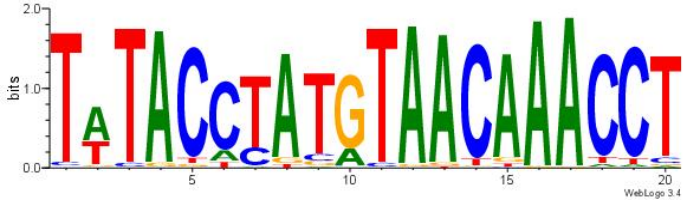

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 12
Similarity score: 0.0907574

Alignment:
ATCTGACAGGAGGYRGAGCT
--------GGRRMCAGATGT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

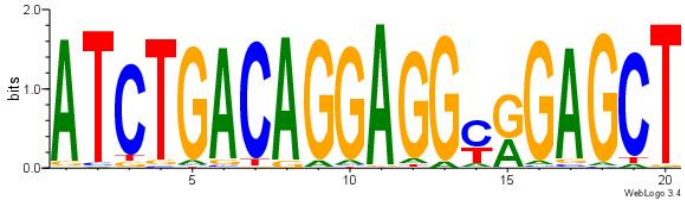

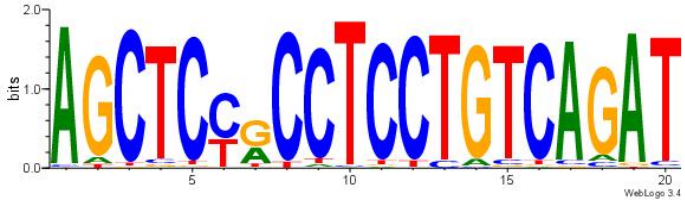

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0913829

Alignment:

```
AGGTATTTCTCCCACC
----ACATCTGYMMCC
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

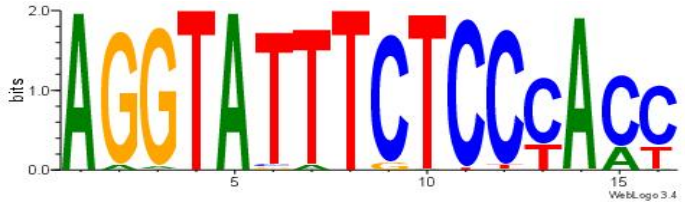

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

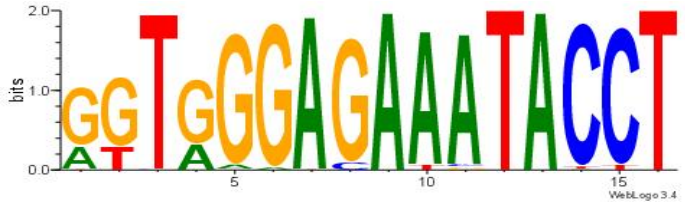

Dataset #: 1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0915131

Alignment:

```
TTMGTCCCAGAGGGGCACC
--GGRRMCAGATGT-----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

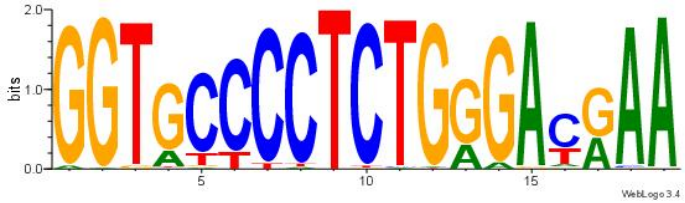

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

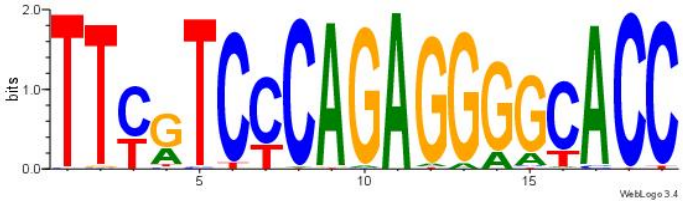

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0915552

Alignment:
ACACATCACAAAGCAGTTTC
--ACATCTGYMMCC------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

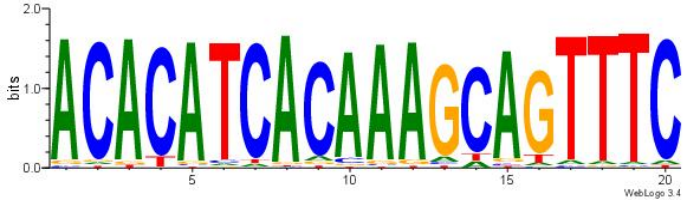

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

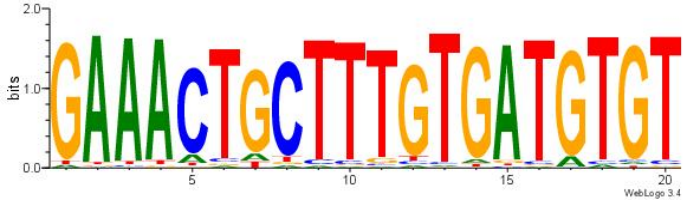

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0922401

Alignment:
CTGAGGACCTGAGGTCRTA
---GGRRMCAGATGT----

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

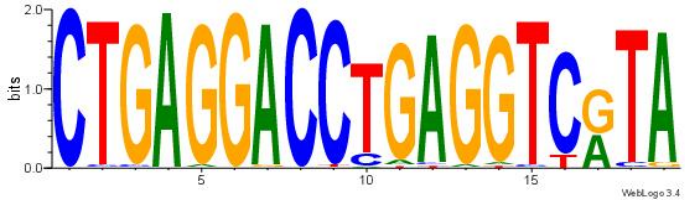

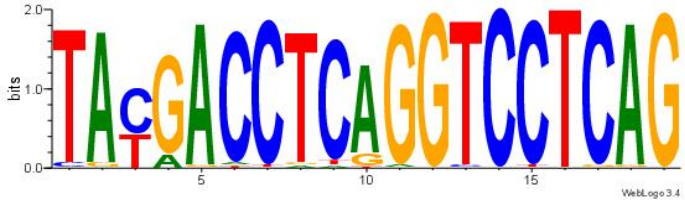

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0925516

Alignment:

```
GGGAGGGATATATTAGC
-GGRRMCAGATGT----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

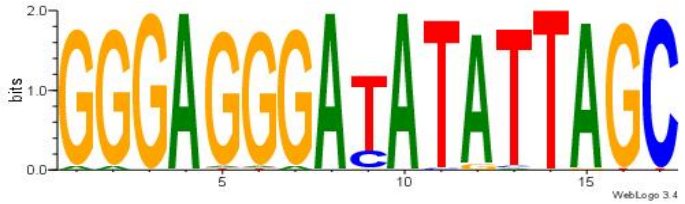

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

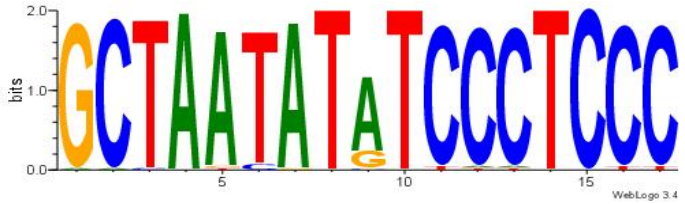

Dataset #: 1

Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0939282

Alignment:

```
GGRCKCACWGGAGC
GGRRMCAGATGT--
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

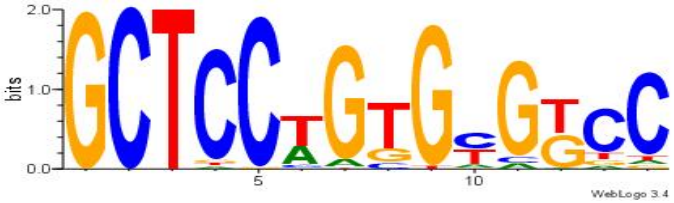

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0943372

Alignment:
CRTGAGCCACYGYRCCYGGC
-----ACATCTGYMMCC---

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

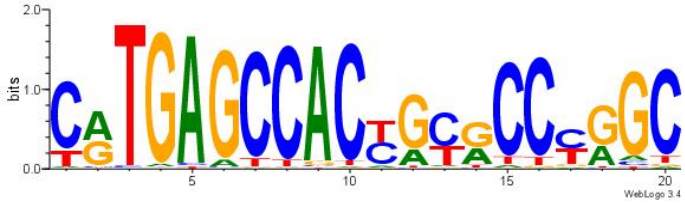

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

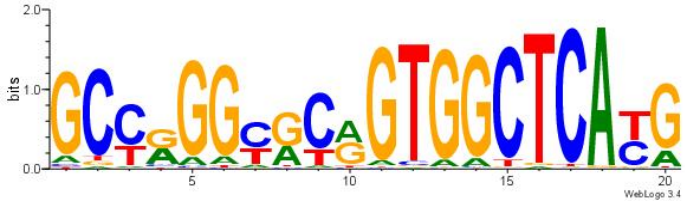

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0943787

Alignment:
ACTCCCTAGTGAGATGAACC
-----GGRRMCAGATGT---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

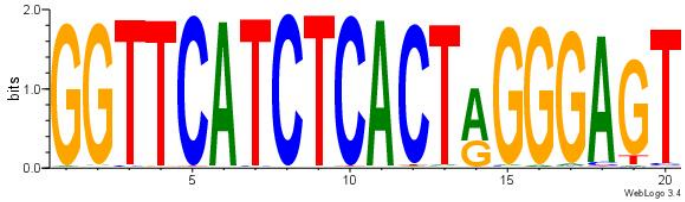

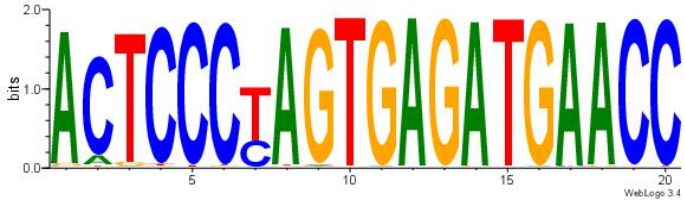

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0948764

Alignment:

```
GCCGGGRAGAGGCGCTCCT
---GGRRMCAGATGT----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

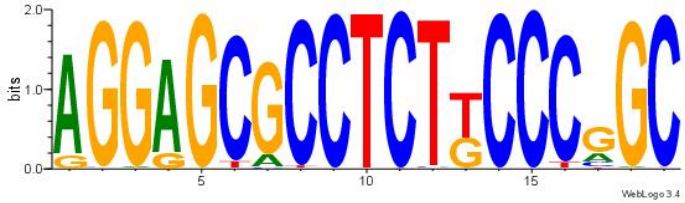

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

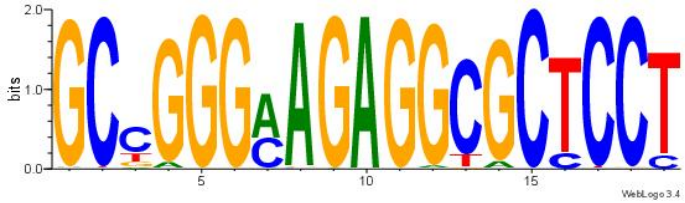

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0951175

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-ACATCTGYMMCC-------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

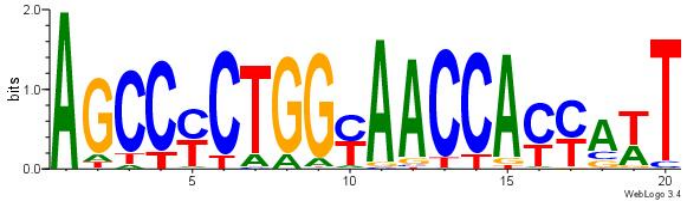

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

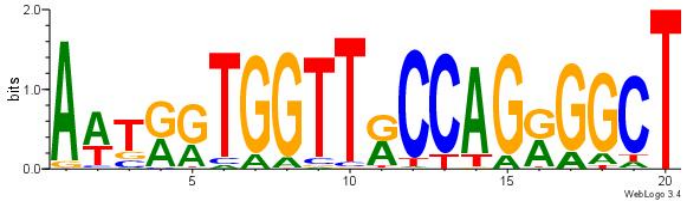

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.0952949

Alignment:
AGGAACAGCTCCRGTCTAC
----ACATCTGYMMCC---

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

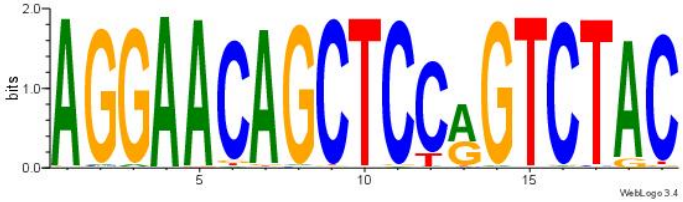

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

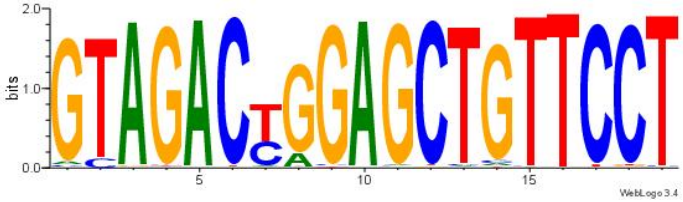

Dataset #: 1
Motif ID: 325
Motif name: Motif 325
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0962531

Alignment:
AGCAGCTGTAAATA
-ACATCTGYMMCC-

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

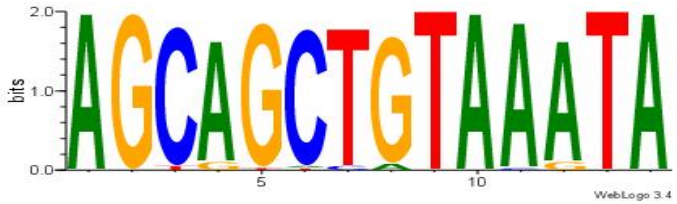

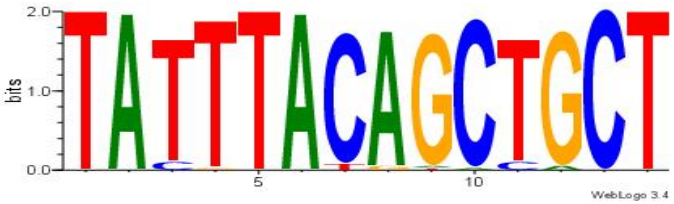

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0968509

Alignment:

```
GGGGGAGACATCACACR
-GGRRMCAGATGT----
```

Original motif Consensus sequence: GGGGGAGACATCACACR

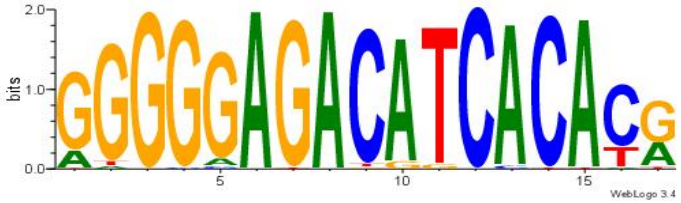

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

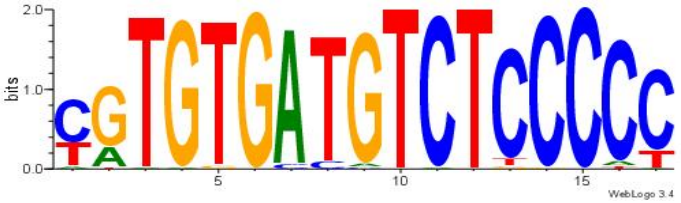

Dataset #: 1

Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0971069

Alignment:

```
CTCRAATGTCCCTT
-ACATCTGYMMCC-
```

Original motif Consensus sequence: AAGGGACATTKGAG

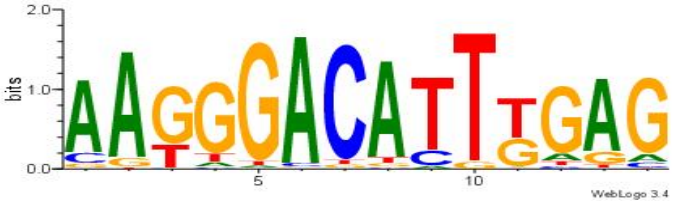

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

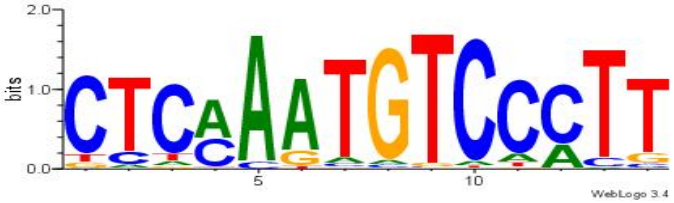

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0971277

Alignment:
ACAGTTCTGGAGGCT
--ACATCTGYMMCC-

Original motif Consensus sequence: AGCCTCCAGAACTGT

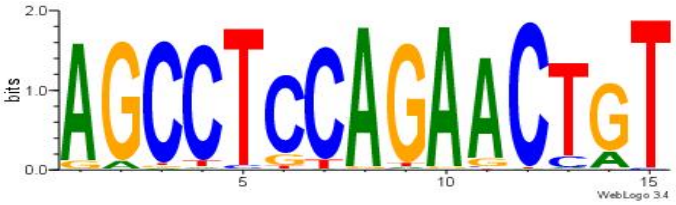

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

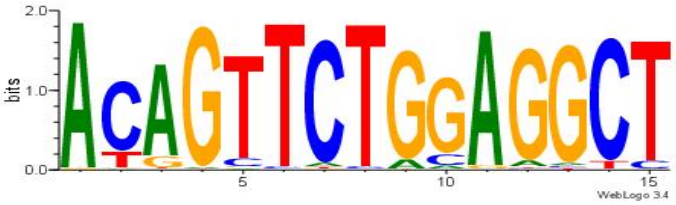

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0972068

Alignment:
TAATTTTATGTGTCAACTTG
-----ACATCTGYMMCC---

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

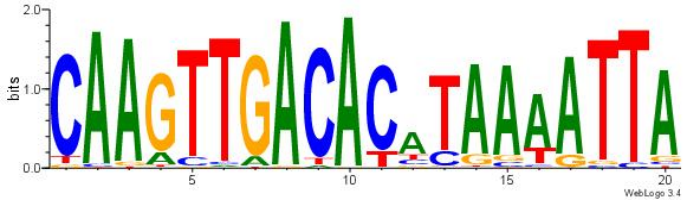

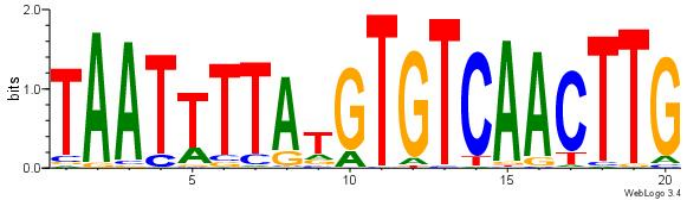

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 12
Similarity score: 0.0973736

Alignment:
GAAGGCAGCTAAGGCCCGGY
GGRRMCAGATGT--------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

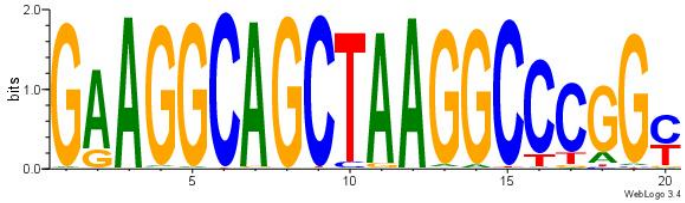

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

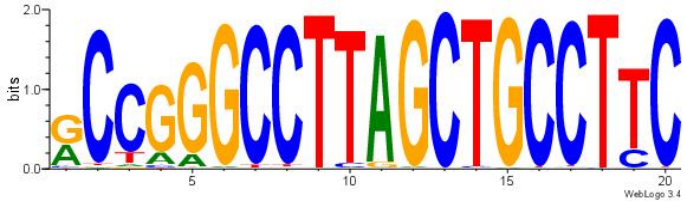

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0975589

Alignment:

```
CAACATGGATGRARCTGGAG
GGRRMCAGATGT--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

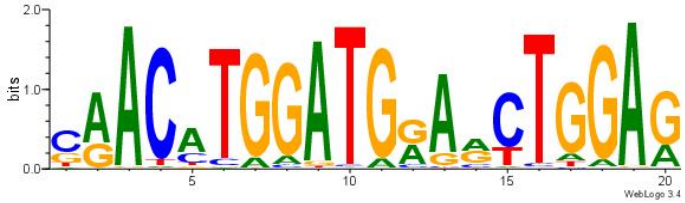

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

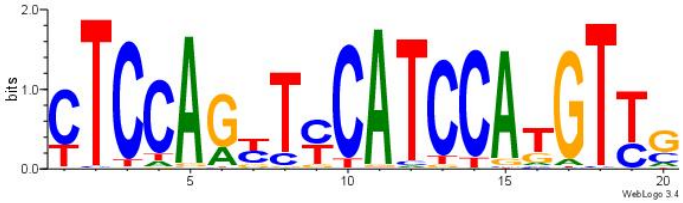

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.098464

Alignment:
AGGASCSTCYSWGCCMGGY
----ACATCTGYMMCC---

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

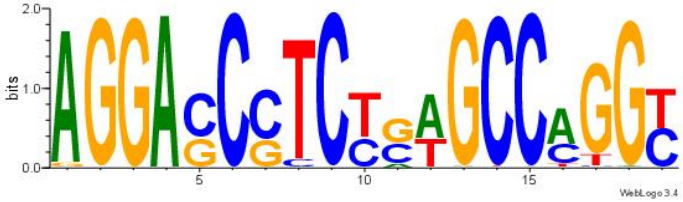

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

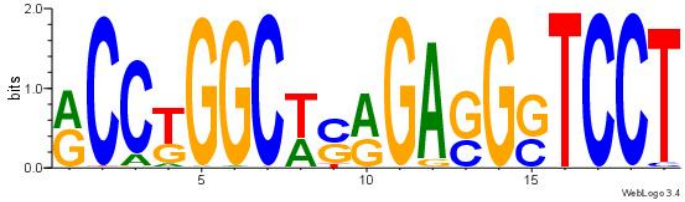

Dataset #: 1
Motif ID: 126
Motif name: Motif 126
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0986648

Alignment:
AYGCCTGTAATC
ACATCTGYMMCC

Original motif Consensus sequence: AYGCCTGTAATC

Reverse complement motif Consensus sequence: GATTACAGGCMT

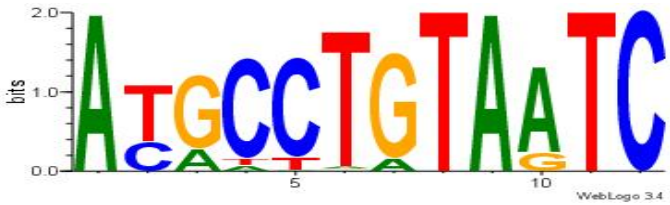

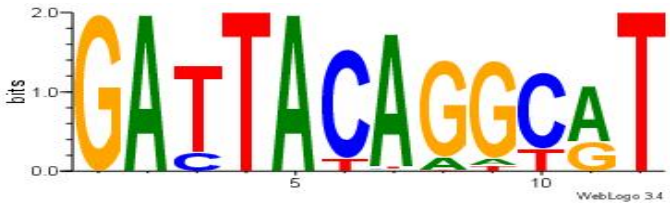

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0989608

Alignment:

```
ACTGTCTTCCACCTCCACAT
-ACATCTGYMMCC-------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

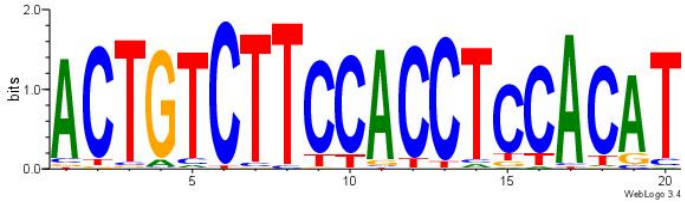

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

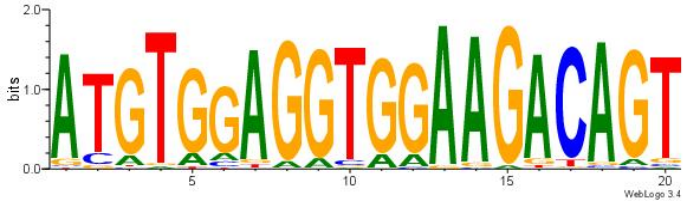

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0993052

Alignment:

```
AGAGCCAAATCATGARTGAA
GGRRMCAGATGT--------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

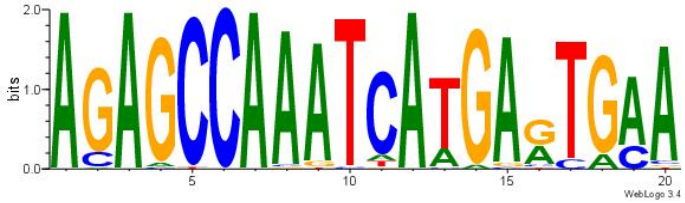

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

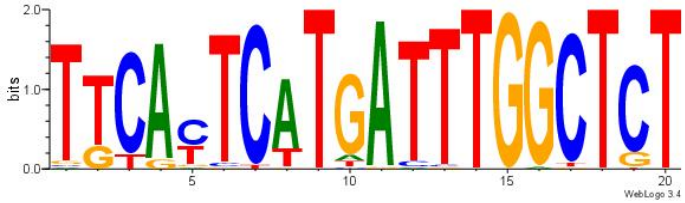

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0997111

Alignment:
GTKTMTATMTACCACATTTT
----ACATCTGYMMCC----

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

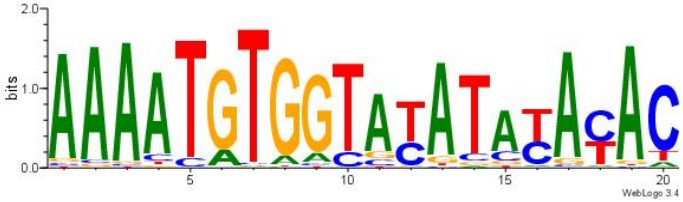

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

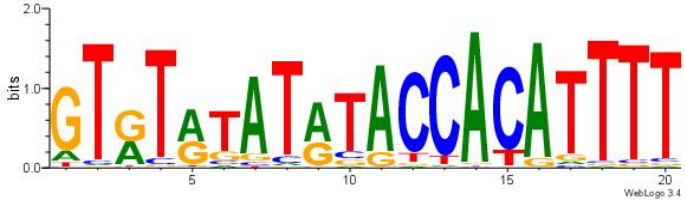

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.099879

Alignment:
AATTAAAAGACACAGACTG
-------GGRRMCAGATGT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

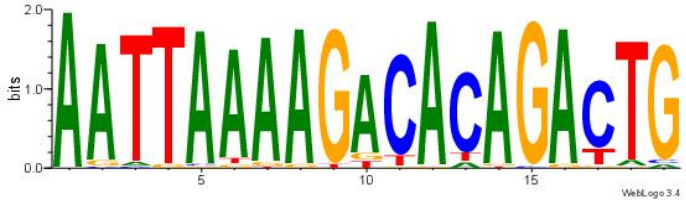

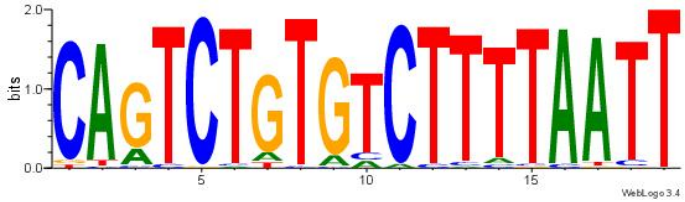

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0998972

Alignment:

```
TACACCCTCCGCAGCC
----ACATCTGYMMCC
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

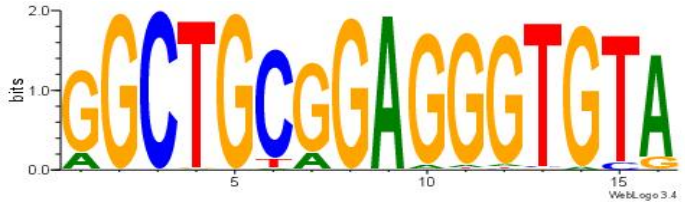

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

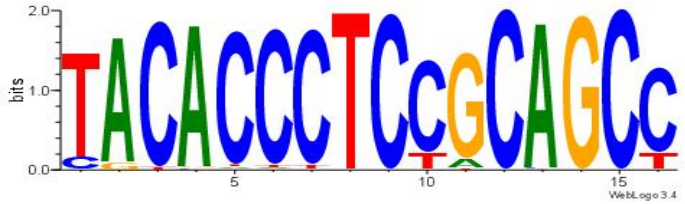

Dataset #: 1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0999917

Alignment:

```
GACATGAGCTGGCGCTTG
----ACATCTGYMMCC--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

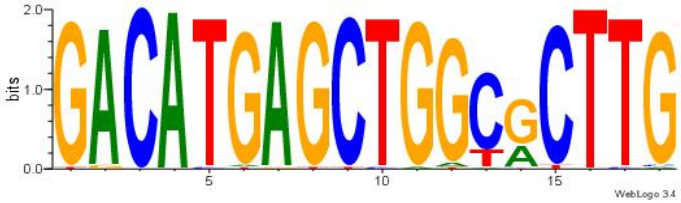

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

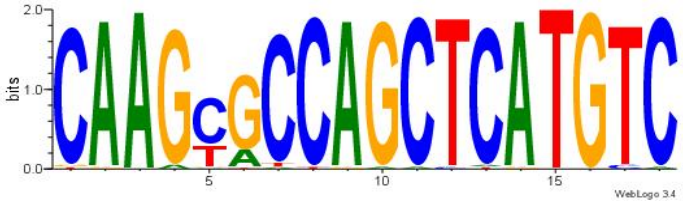

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.10035

Alignment:
GCAGCTTCACTCCTGA
ACATCTGYMMCC----

Original motif Consensus sequence: GCAGCTTCACTCCTGA

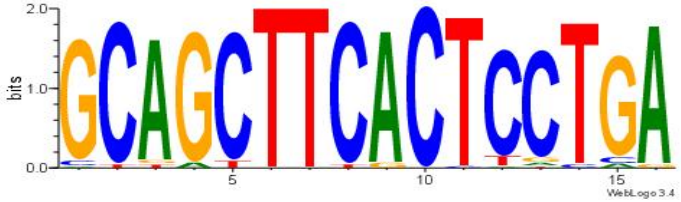

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

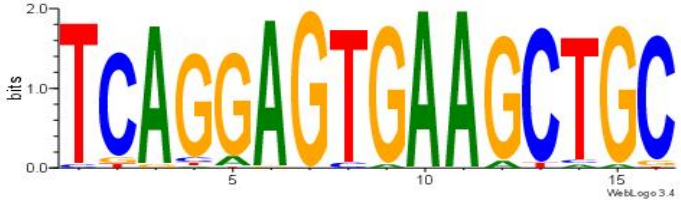

Dataset #: 1
Motif ID: 346
Motif name: Motif 346
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.100503

Alignment:
AAATCTTAAAGCTC
ACATCTGYMMCC--

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

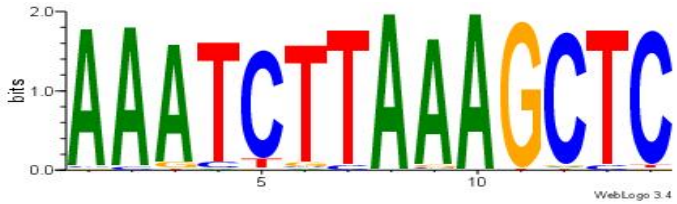

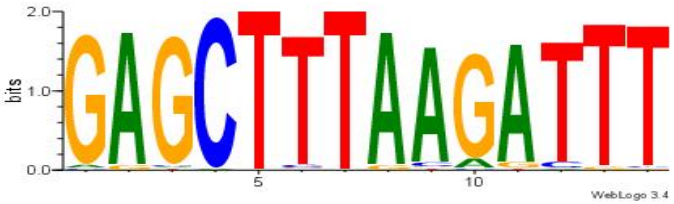

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.100542

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
----GGRRMCAGATGT----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

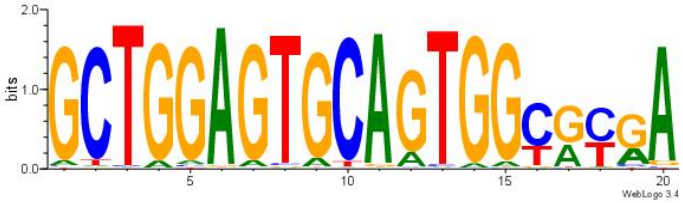

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

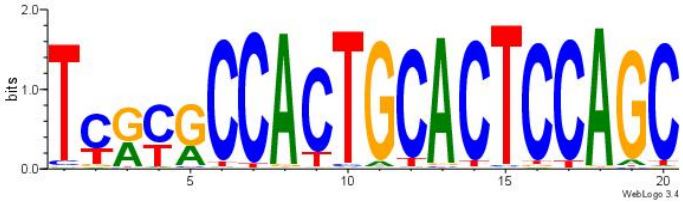

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.10093

Alignment:

```
MTCCTCCAGACCCCAGAATG
-ACATCTGYMMCC-------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

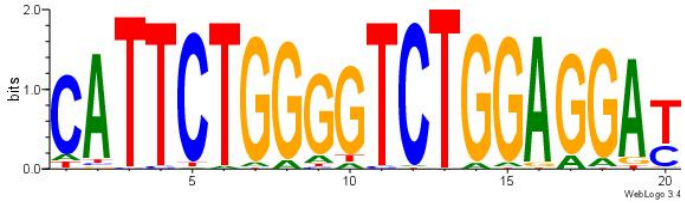

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

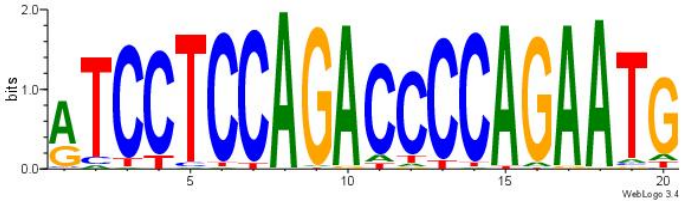

Dataset #: 1 Motif ID: 50 Motif name: Motif 50

Original motif Consensus sequence: GATGTGAGGGC

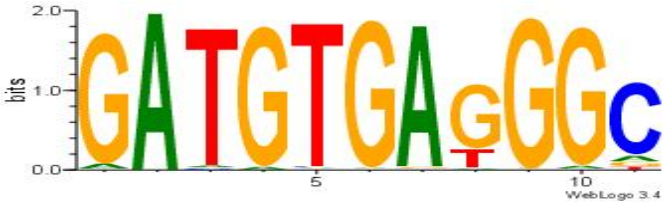

Reverse complement motif Consensus sequence: GCCCTCACATC

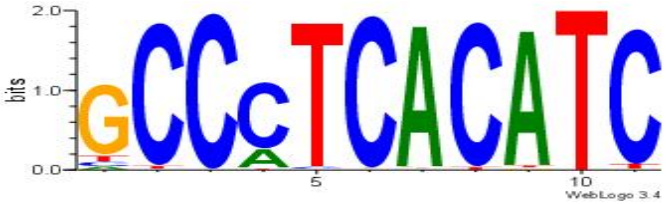

Best Matches for Motif ID 50 (Highest to Lowest)

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0679708

Alignment:

```
GCTTCTGGTGAGGGC
----GATGTGAGGGC
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

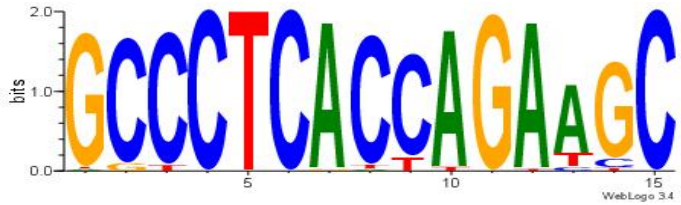

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

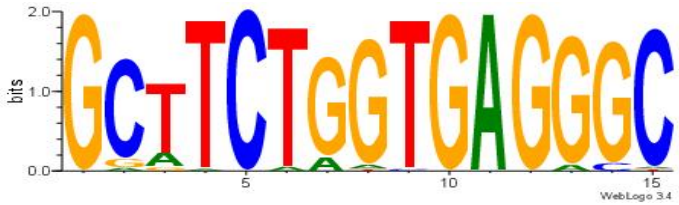

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0702987

Alignment:

```
GGATGGTGAGGGC
--GATGTGAGGGC
```

Original motif Consensus sequence: GCCCTCACCATCC

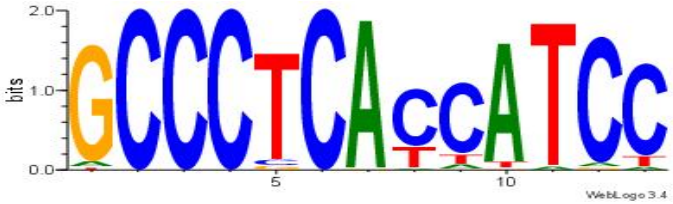

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

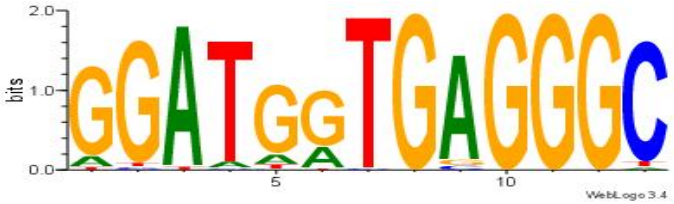

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0711373

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
------GATGTGAGGGC---
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

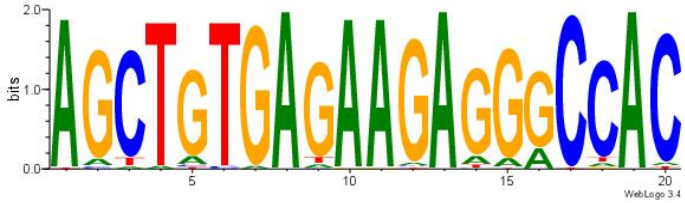

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

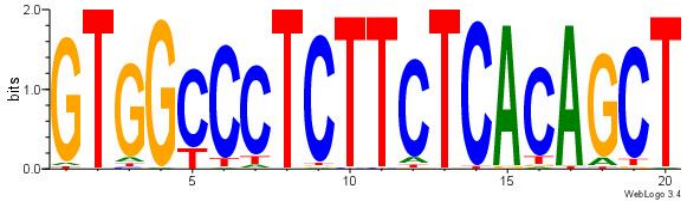

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0726313

Alignment:

```
TAMGACCTCAGGTCCTCAG
---GCCCTCACATC-----
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

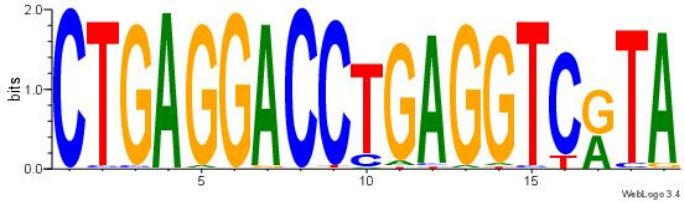

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

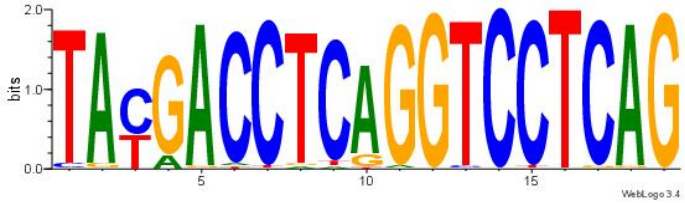

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0745066

Alignment:

```
TGGACCTGAGAGC
--GATGTGAGGGC
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

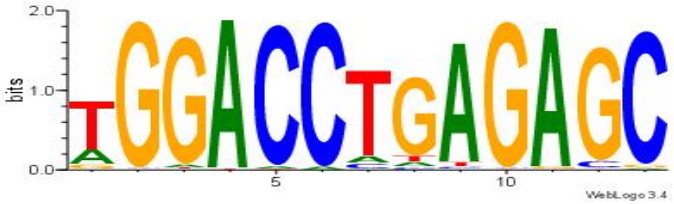

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.077635

Alignment:
GGGGTGATGGACG
GATGTGAGGGC--

Original motif Consensus sequence: CGTCCATCACCCC

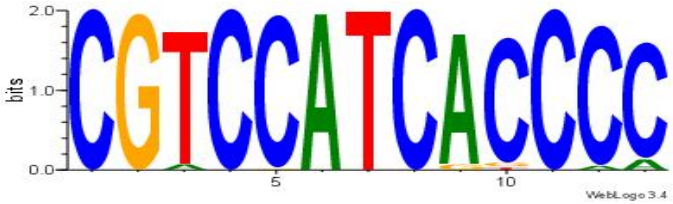

Reverse complement motif Consensus sequence: GGGGTGATGGACG

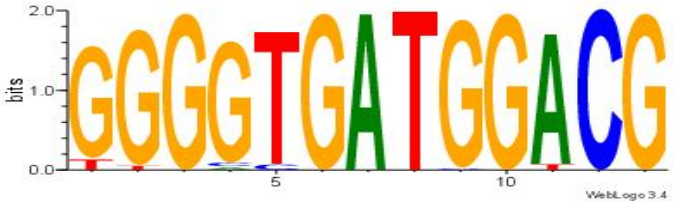

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0777222

Alignment:
GCCTCTCCCTCCACACCTCC
------GCCCTCACATC---

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

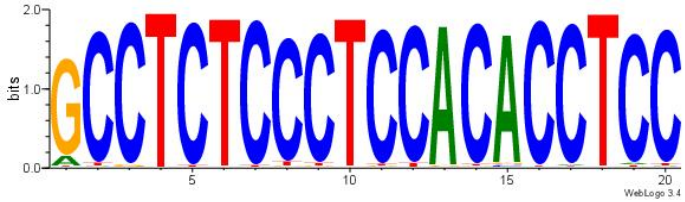

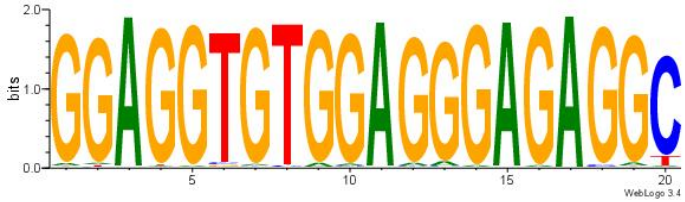

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0796424

Alignment:

```
MGTGTGATGTCTCCCCC
GATGTGAGGGC------
```

Original motif Consensus sequence: GGGGGAGACATCACACR

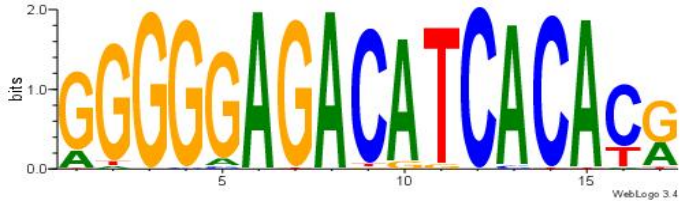

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

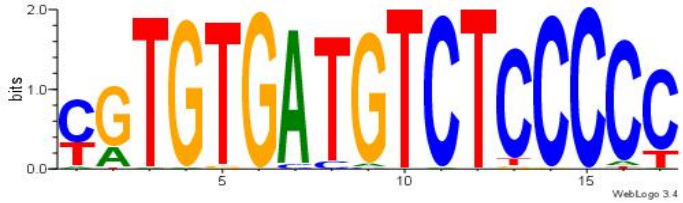

Dataset #:	1

Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0799551

Alignment:

```
GATGTGTCTGGAG
GATGTGAGGGC--
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

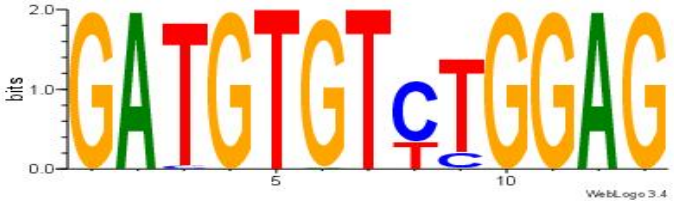

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0800574

Alignment:
ACCKTCGCGGTGAGTGTTAC
------GATGTGAGGGC---

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

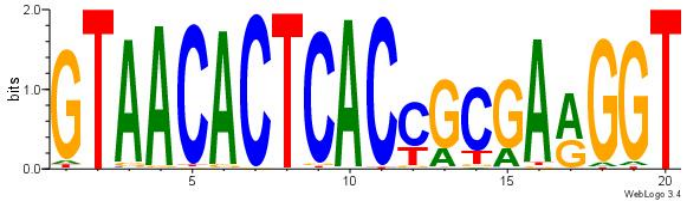

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

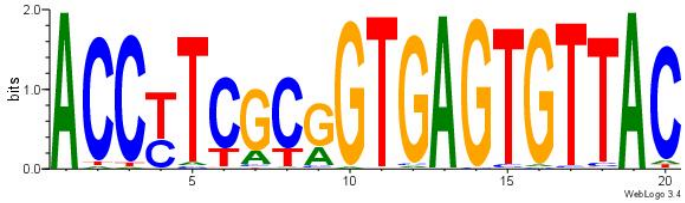

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0807694

Alignment:
GACATGAGCTGGCGCTTG
--GATGTGAGGGC-----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence:
CAAGCGCCAGCTCATGTC

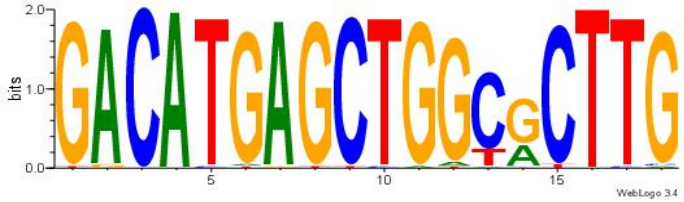

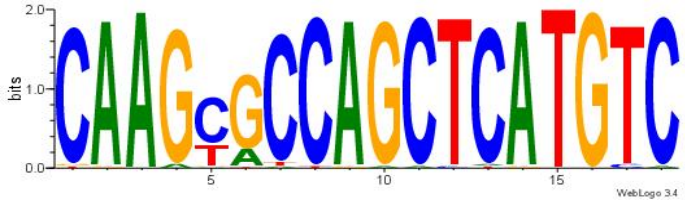

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0808088

Alignment:

```
GTTTAACCATTGAGGGCCAG
------GATGTGAGGGC---
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

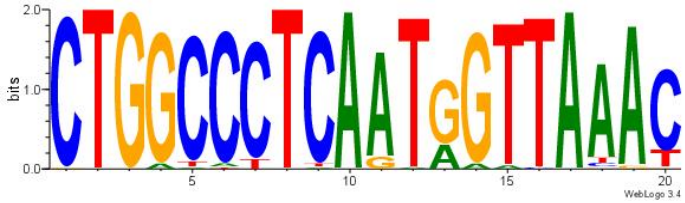

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

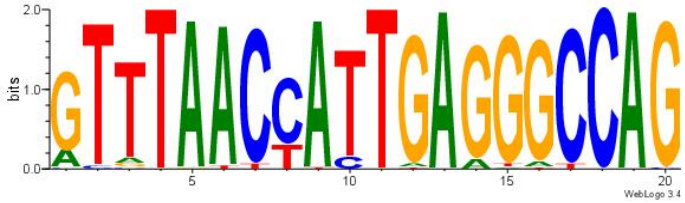

Dataset #: 1

Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0814569

Alignment:

```
AGCCTCCAGAACTGT
-GCCCTCACATC---
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

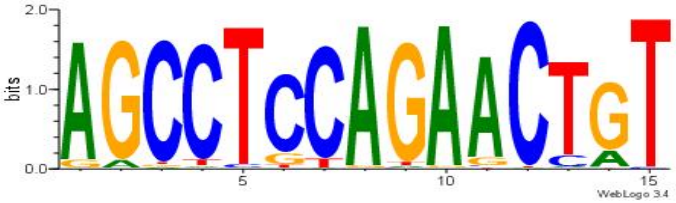

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0838395

Alignment:
TCCCTCCCGGACGGGGYGGC
---------GATGTGAGGGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

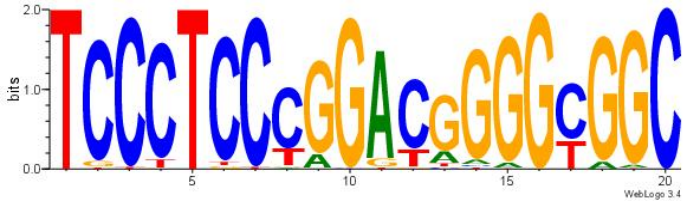

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

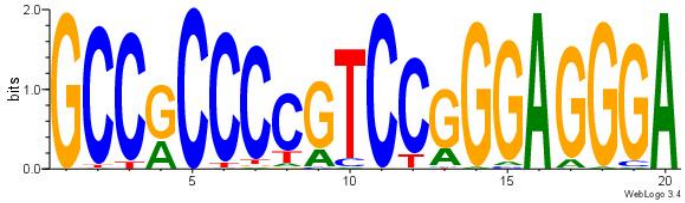

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0856797

Alignment:
CTCATTTAATCCTCACAAC
--------GCCCTCACATC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

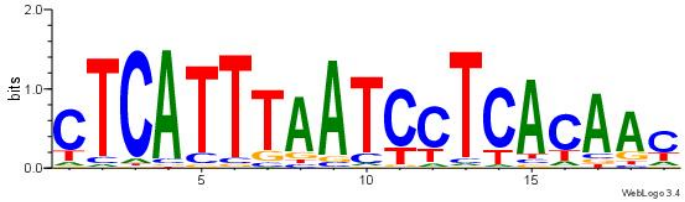

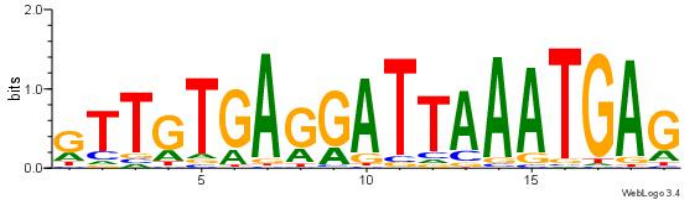

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0863589

Alignment:

```
TCAATGGGCTCCCAAATG
-------GCCCTCACATC
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

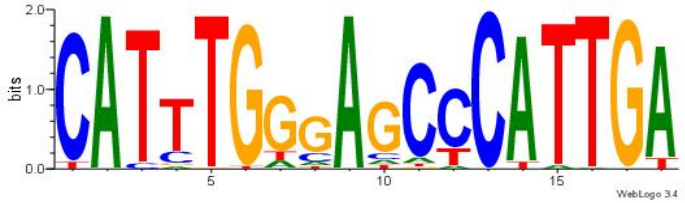

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

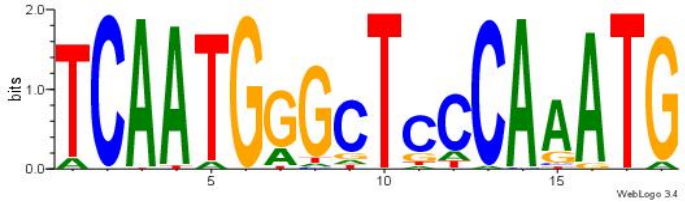

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0866477

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-GATGTGAGGGC--------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

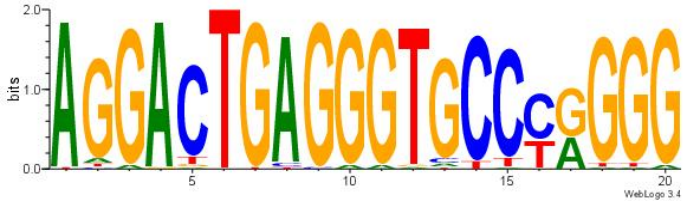

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

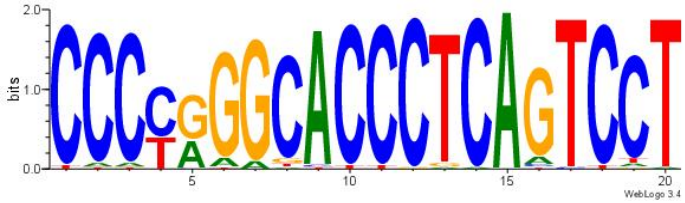

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0869769

Alignment:
TAAGTGGGAGCTAARC
GATGTGAGGGC-----

Original motif Consensus sequence: TAAGTGGGAGCTAARC

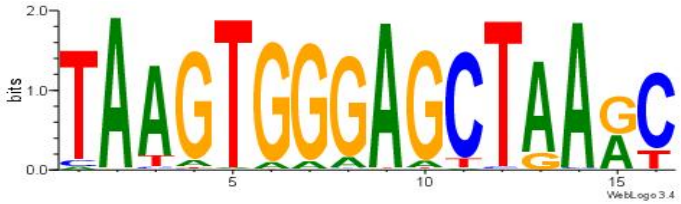

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

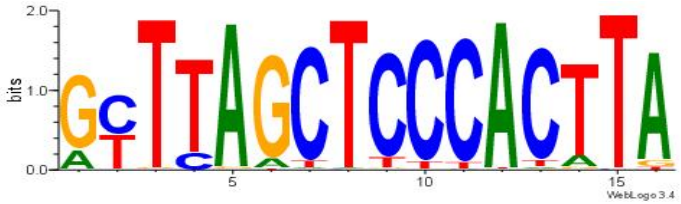

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0875545

Alignment:
GCGGCTGGCCGGGCG
---GATGTGAGGGC-

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

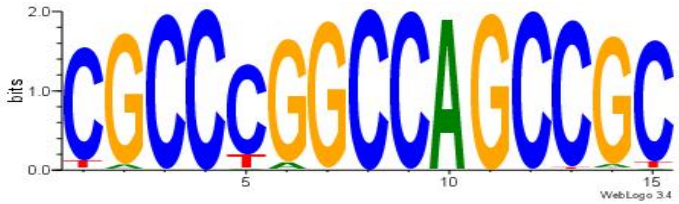

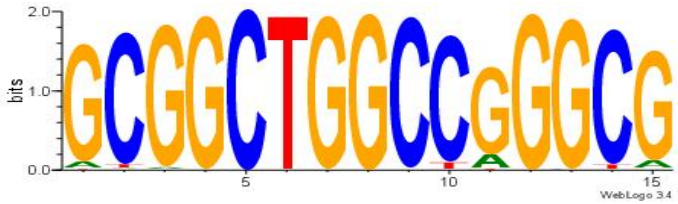

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0878257

Alignment:

```
GGACCTTCAGAGC
--GCCCTCACATC
```

Original motif Consensus sequence: GCTCTGAAGGTCC

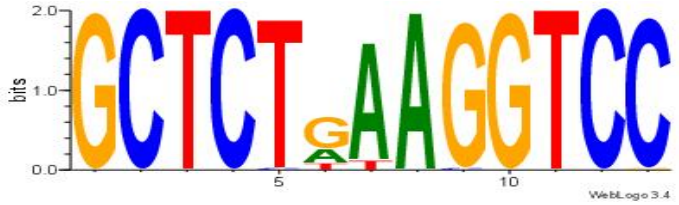

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

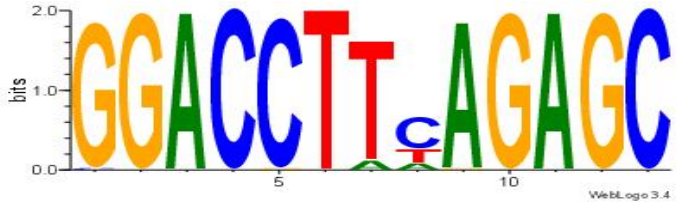

Dataset #:	1
Motif ID:	92

Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0880726

Alignment:

```
GGGGGCTGACCCCCCCACC
--------GCCCTCACATC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

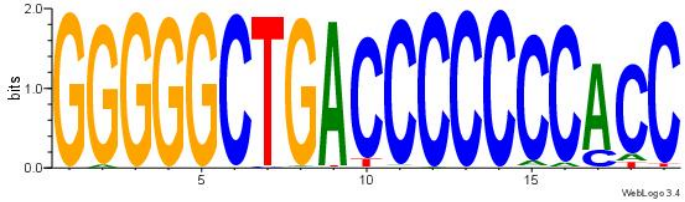

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

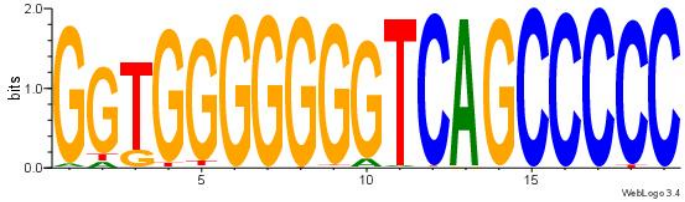

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0881975

Alignment:
CTCCTGACCTCGTGATC
GCCCTCACATC------

Original motif Consensus sequence: GATCACGAGGTCAGGAG

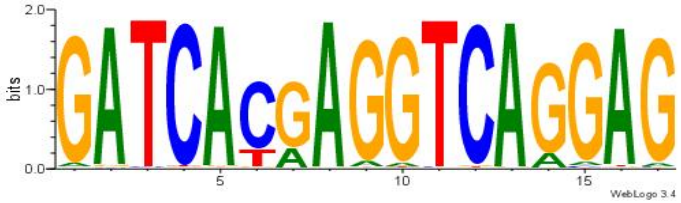

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

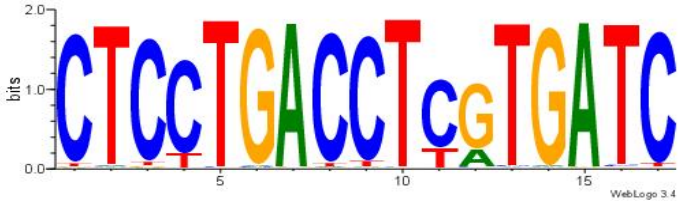

Dataset #:	1
Motif ID:	87
Motif name:	Motif 87
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0885239

Alignment:
CATGTGTGTCC
GATGTGAGGGC

Original motif Consensus sequence: CATGTGTGTCC

Reverse complement motif Consensus sequence: GGACACACATG

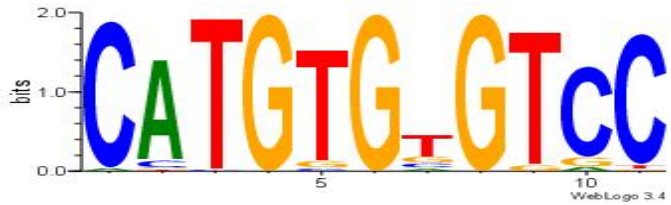

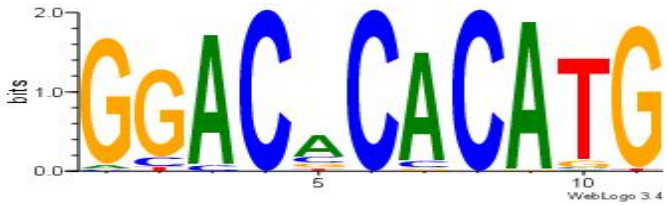

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0889411

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
GATGTGAGGGC---------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

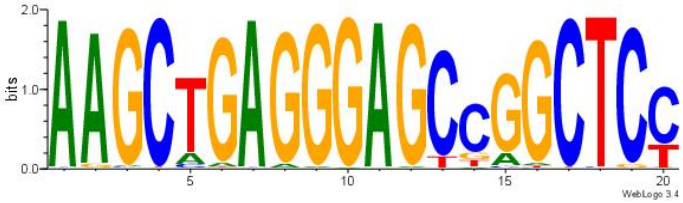

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

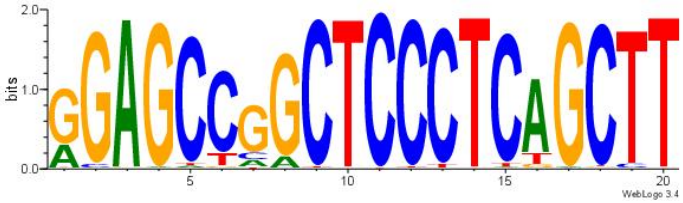

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0893807

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-------GATGTGAGGGC--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

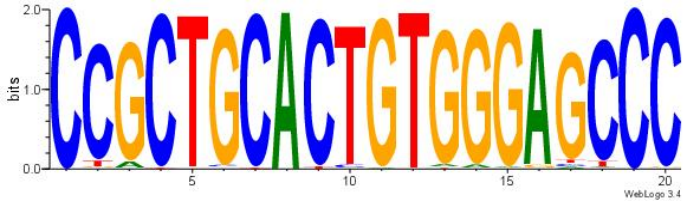

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

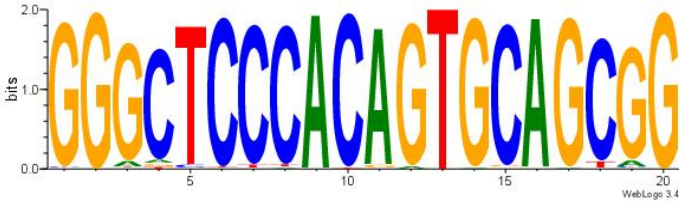

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0899003

Alignment:
ATTAGCYRGGCRTGGTGGC
--------GATGTGAGGGC

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

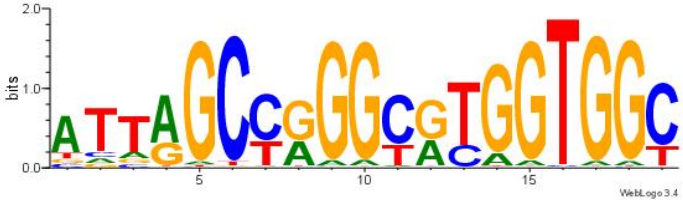

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

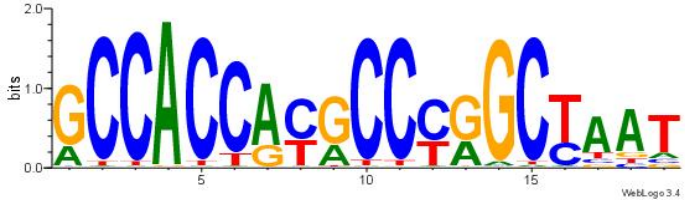

Dataset #: 1
Motif ID: 197
Motif name: Motif 197
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0900642

Alignment:
CGCCCGGCCAGC
-GCCCTCACATC

Original motif Consensus sequence: CGCCCGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

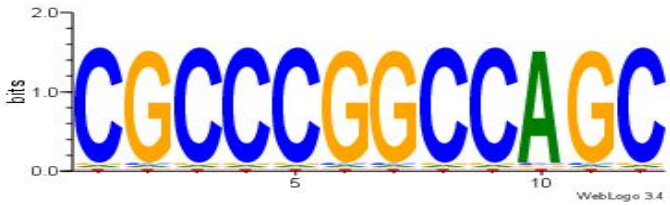

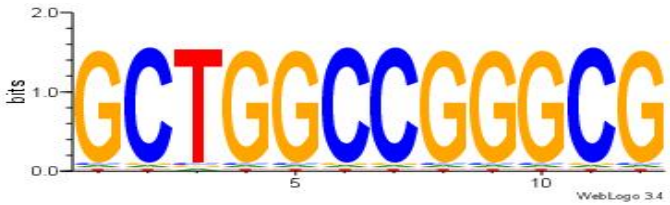

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0901947

Alignment:

```
TGCTCACACAAAGCCTGT
-GCCCTCACATC------
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

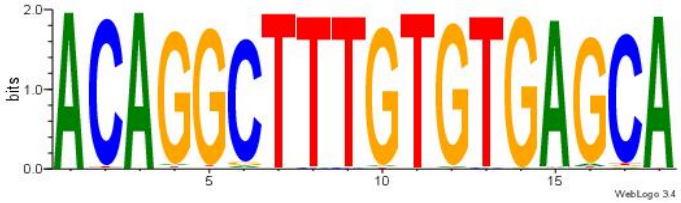

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

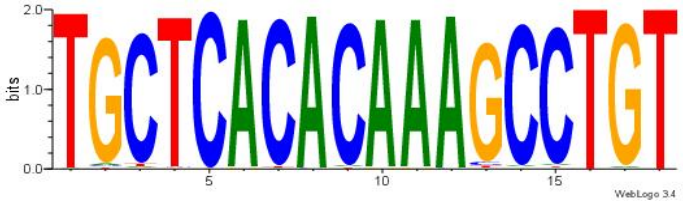

Dataset #: 1

Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0914533

Alignment:

```
CCGCACTCGGAGCRG
--GCCCTCACATC--
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

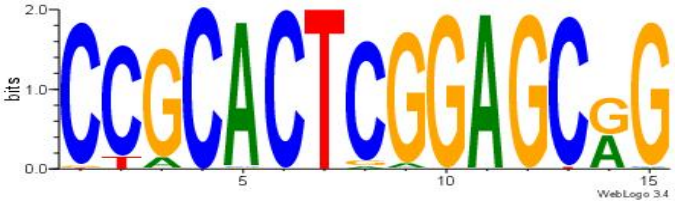

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

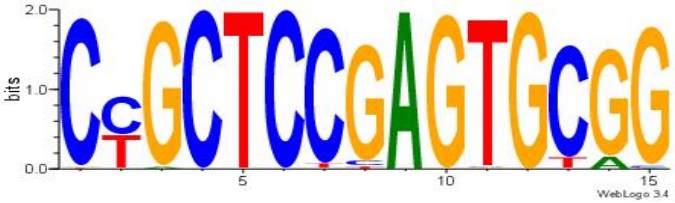

Dataset #:	1
Motif ID:	302
Motif name:	Motif 302
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0922239

Alignment:
GACCCTGAGAGC
-GCCCTCACATC

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

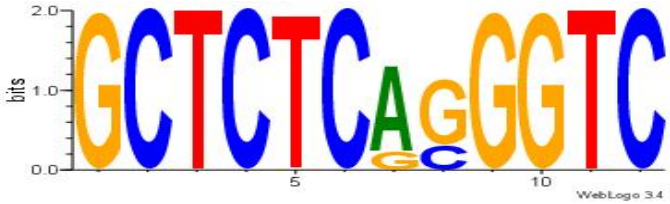

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0923311

Alignment:
ACATCMTCTGAAATCTAGG
----GCCCTCACATC----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

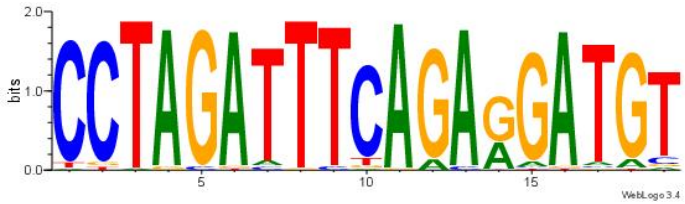

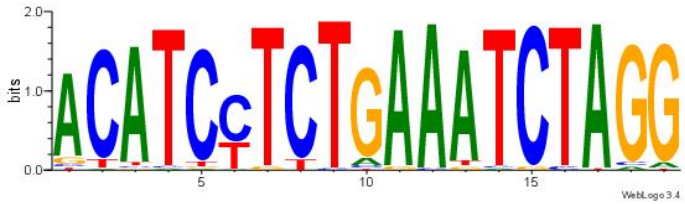

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0924524

Alignment:

```
GCTCTCAATTGGTCATT
GCCCTCACATC------
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

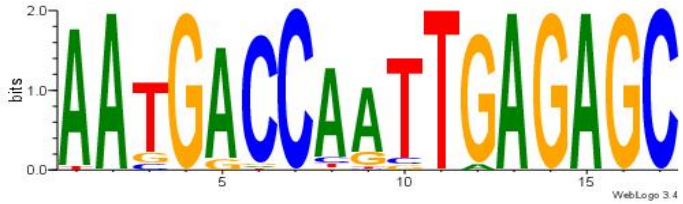

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

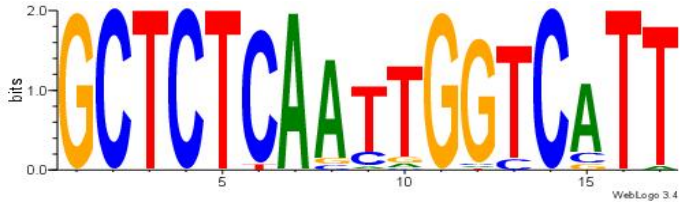

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0933137

Alignment:

```
CATTTCCAWCTGAGGTAC
------GATGTGAGGGC-
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

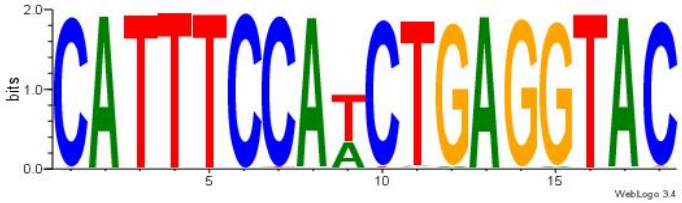

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

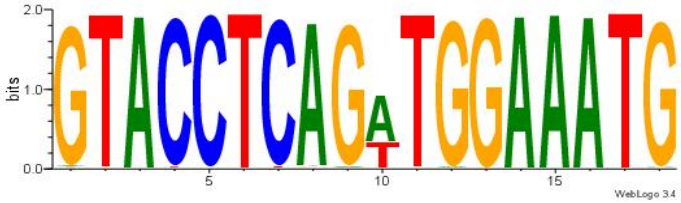

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0935588

Alignment:
TTTGGTGCACCCATCA
----GCCCTCACATC-

Original motif Consensus sequence: TGATGGGTGCACCAAA

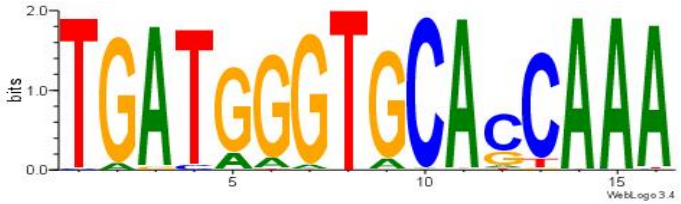

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

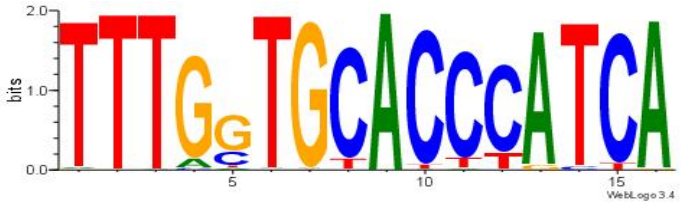

Dataset #: 1
Motif ID: 183
Motif name: Motif 183
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0952242

Alignment:
GGCCMGCAGGGCKGGC
-----GATGTGAGGGC

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

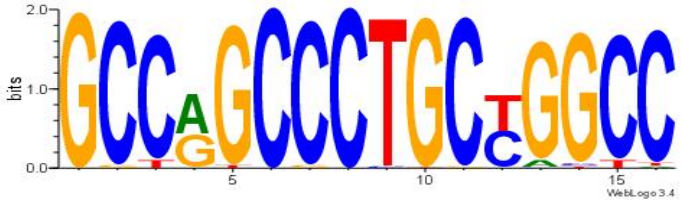

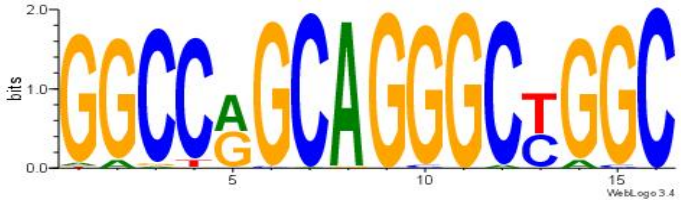

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0957929

Alignment:

```
CAAGGTCTGATTGTW
---GATGTGAGGGC-
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

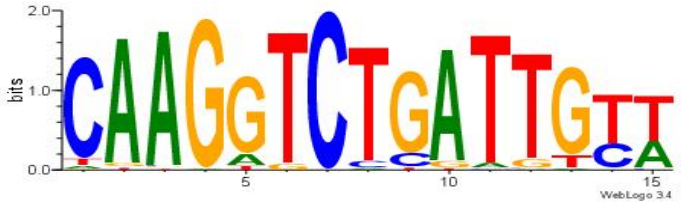

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	112

Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0958185

Alignment:

```
GCTGTGTGACCTTGGGCAAG
GATGTGAGGGC---------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

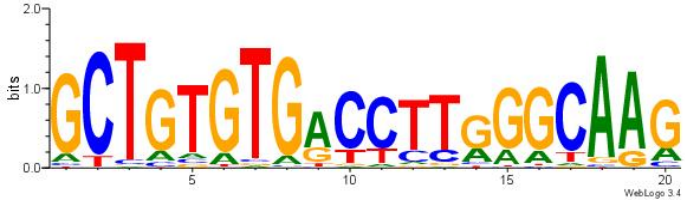

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

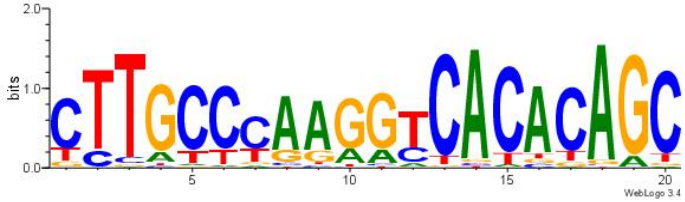

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0968804

Alignment:
MCCYGGCWSMGASGSTCCT
---GATGTGAGGGC-----

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

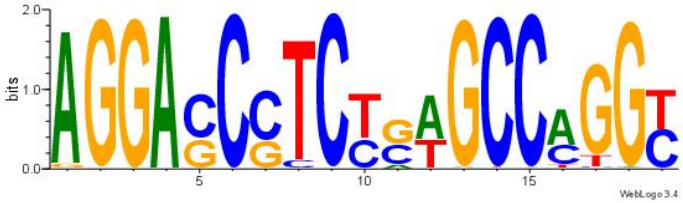

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

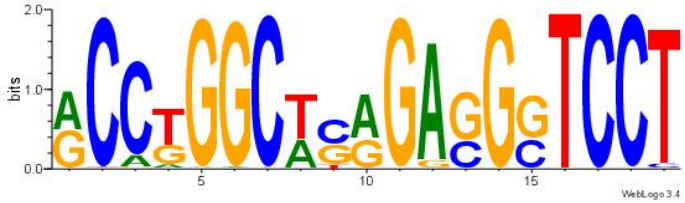

Dataset #:	1
Motif ID:	28
Motif name:	Motif 28
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0969047

Alignment:
GTCACCCCATT
GCCCTCACATC

Original motif Consensus sequence: GTCACCCCATT

Reverse complement motif Consensus sequence: AATGGGGTGAC

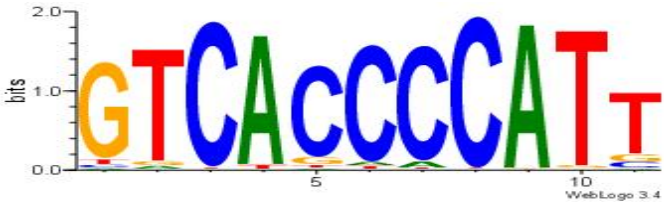

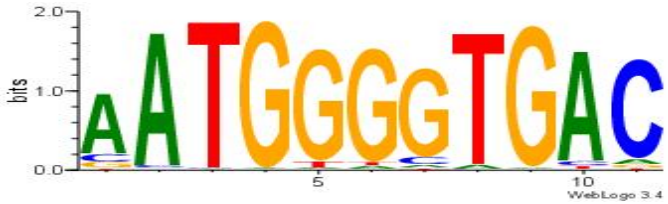

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0974687

Alignment:

```
TTTGTTATAGCAG
GATGTGAGGGC--
```

Original motif Consensus sequence: CTGCTATAACAAA

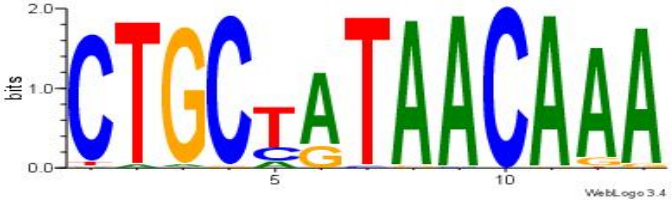

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

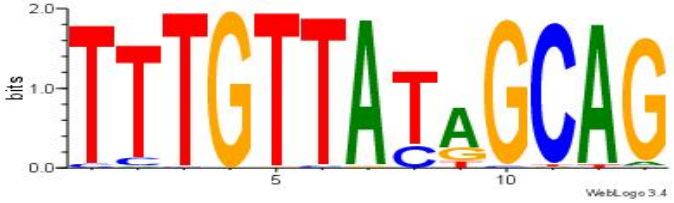

Dataset #:	1
Motif ID:	261

Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0978053

Alignment:

```
ATCTCASAAATCACCACTA
-GCCCTCACATC-------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

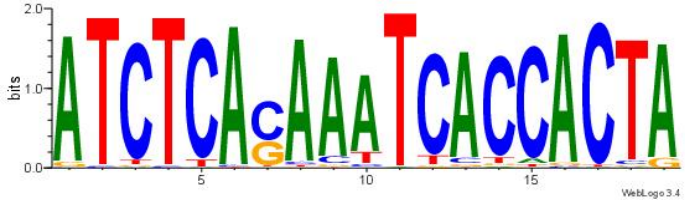

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

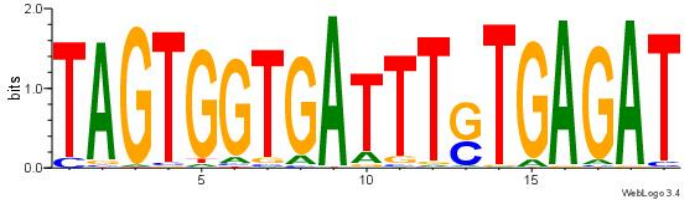

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0978097

Alignment:
GCAGCTTCACTCCTGA
--GCCCTCACATC---

Original motif Consensus sequence: GCAGCTTCACTCCTGA

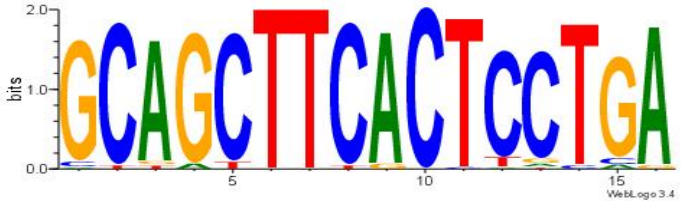

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

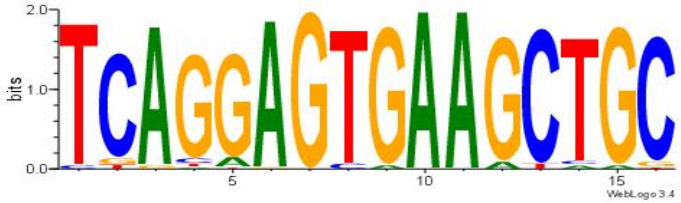

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0978446

Alignment:
AAAGTGCCGAGAKTGCAGC
-----GATGTGAGGGC---

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

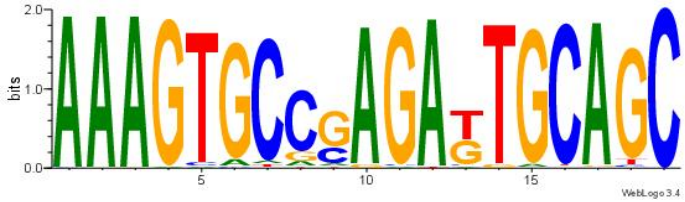

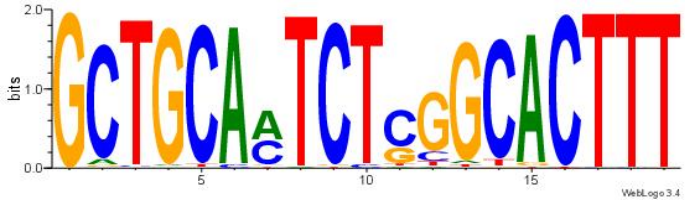

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0978908

Alignment:

```
TGGGGCTCCAGATG
---GCCCTCACATC
```

Original motif Consensus sequence: CATCTGGAGCCCCA

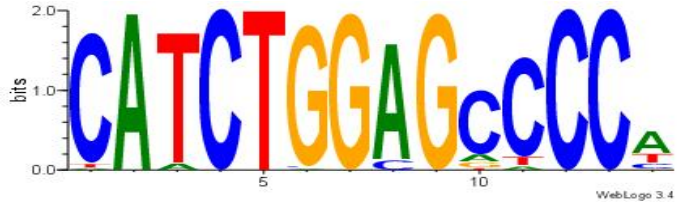

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

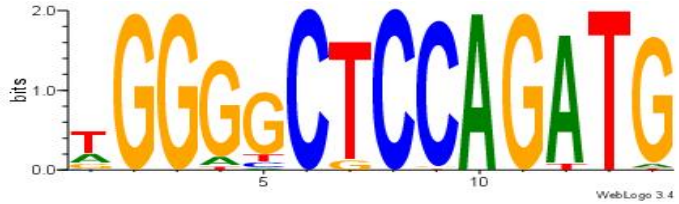

Dataset #:	1
Motif ID:	232

Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0986075

Alignment:

```
AGTTGTAATTGGGAGACTT
-GATGTGAGGGC-------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

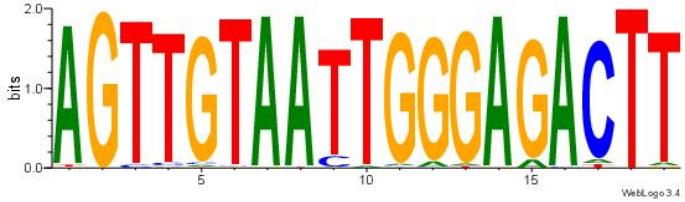

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

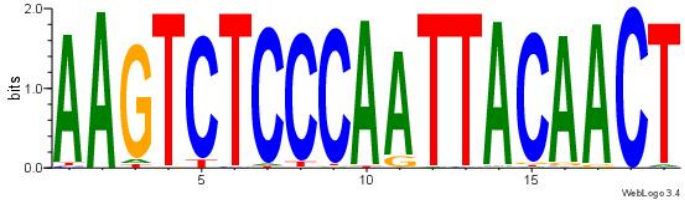

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0998783

Alignment:
CTGTTTGCCTGGGTATCA
------GCCCTCACATC-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

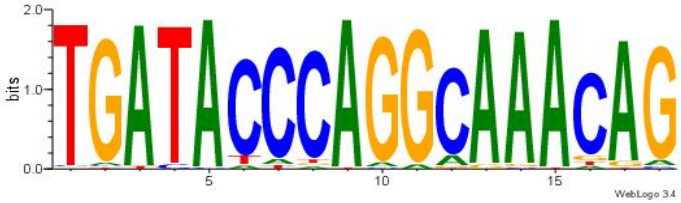

Reverse complement motif Consensus sequence:
CTGTTTGCCTGGGTATCA

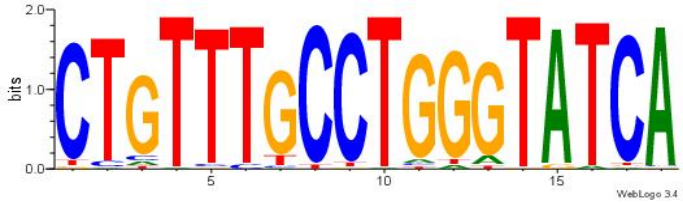

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0999059

Alignment:
GGATCCACTGGGTGAAGCCA
--------GATGTGAGGGC-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

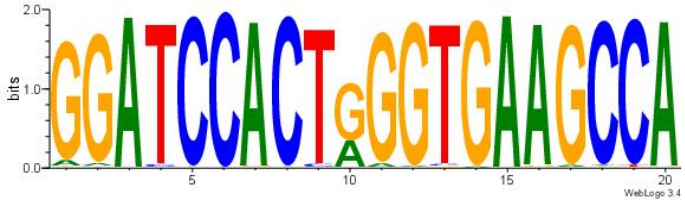

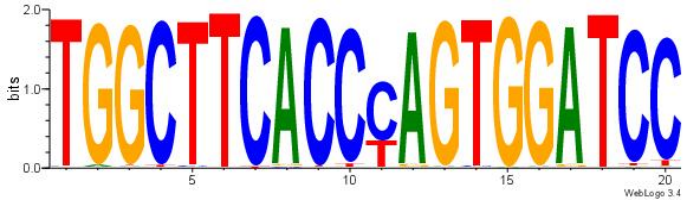

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.100306

Alignment:

```
GAAACTGCTTTGTGATGTGT
--------GATGTGAGGGC-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

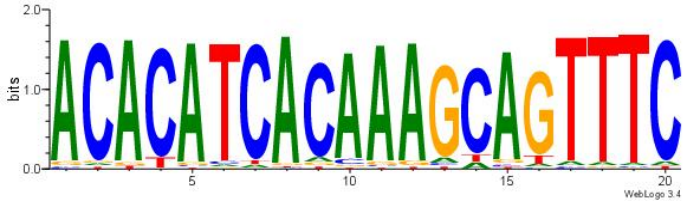

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

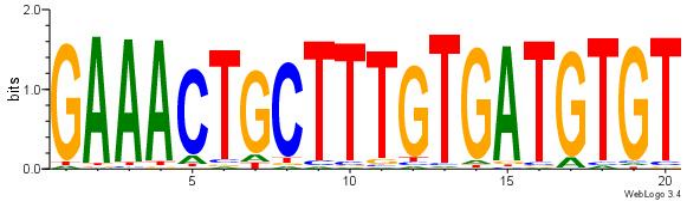

Dataset #:	1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.100549

Alignment:

```
CCTTTGACTCCATGTC
-----GCCCTCACATC
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

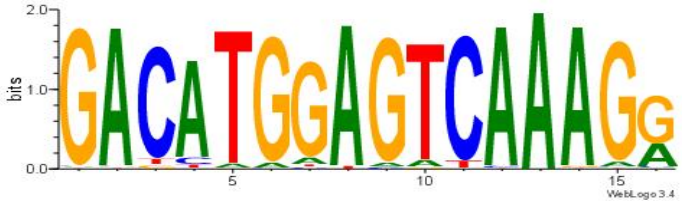

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

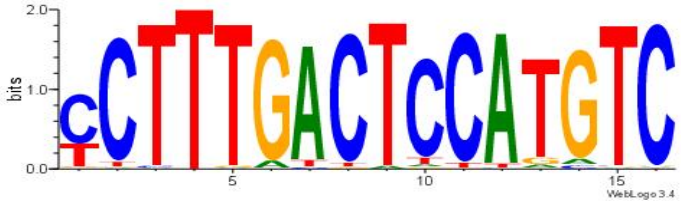

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.100623

Alignment:
GGTGGAGCTGCCTGCCAGTC
---------GCCCTCACATC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

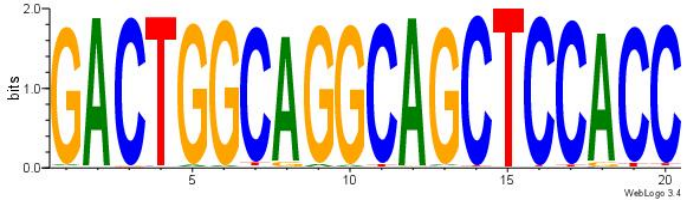

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

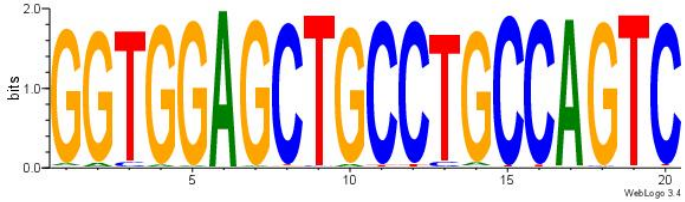

Dataset #: 1 Motif ID: 51 Motif name: Motif 51

Original motif Consensus sequence: GTGGGTGCGCGCA

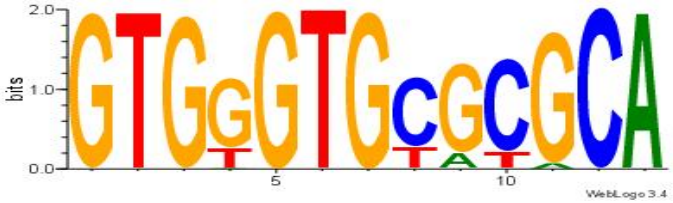

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

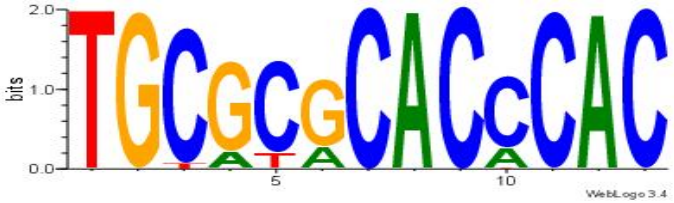

Best Matches for Motif ID 51 (Highest to Lowest)

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0746013

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----TGCGCGCACCCAC-
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

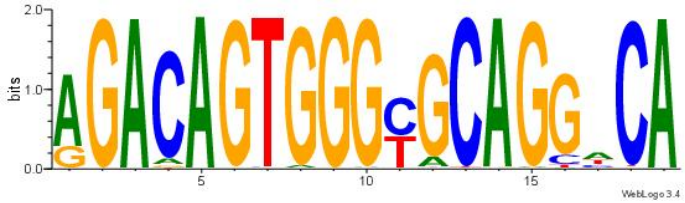

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

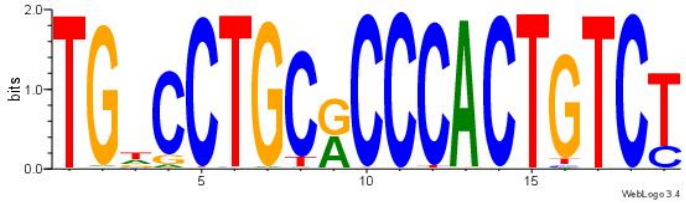

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0830854

Alignment:

```
ACAGGCTTTGTGTGAGCA
-----GTGGGTGCGCGCA
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

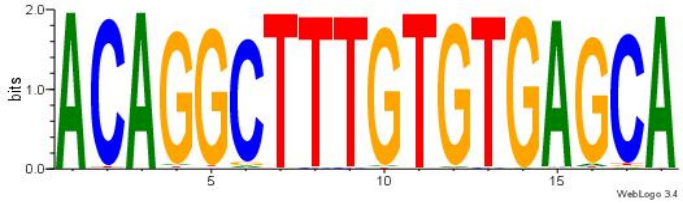

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

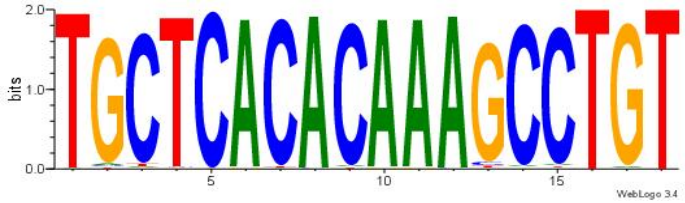

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0852016

Alignment:

```
TGATGGGTGCACCAAA
--GTGGGTGCGCGCA-
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

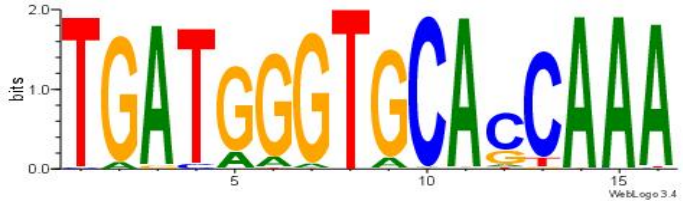

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

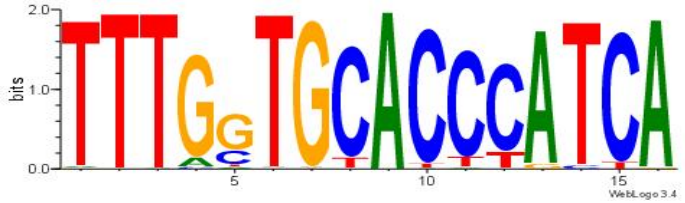

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0893244

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-TGCGCGCACCCAC------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

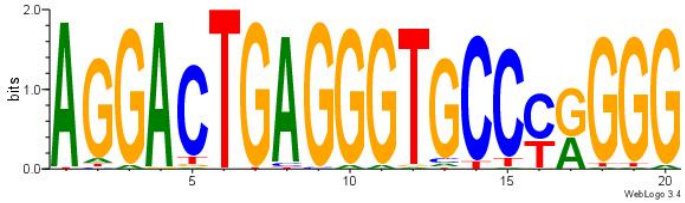

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

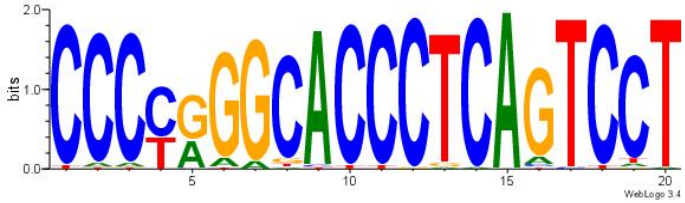

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0903644

Alignment:
CTTCGCTGACTCTCTTT
-TGCGCGCACCCAC---

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

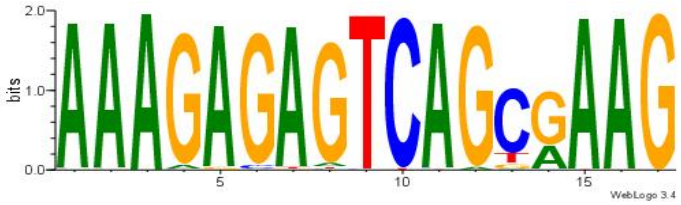

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

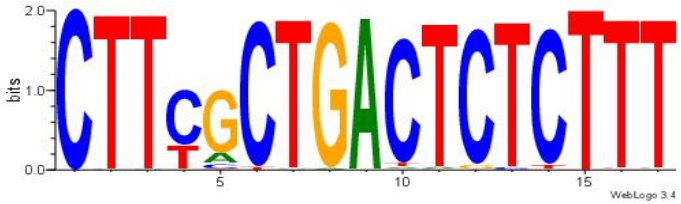

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0933097

Alignment:
GGAGCCGGCTCCCTCAGCTT
--TGCGCGCACCCAC-----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

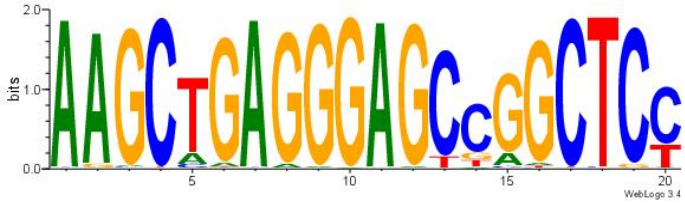

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

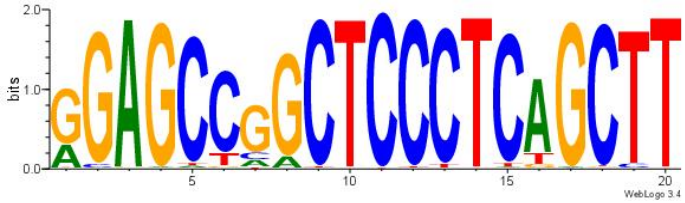

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0946481

Alignment:

```
TGGCTTCACCCAGTGGATCC
TGCGCGCACCCAC-------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

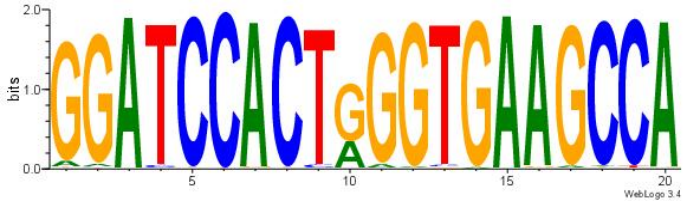

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

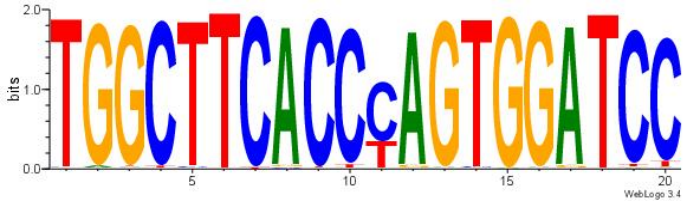

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0947064

Alignment:

```
GGGGGCTGACCCCCCCACC
-TGCGCGCACCCAC-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

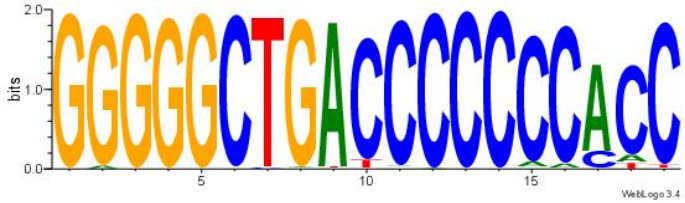

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

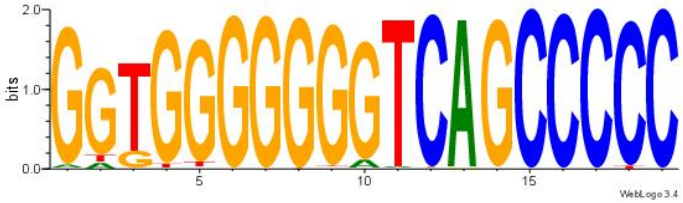

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 13
Similarity score: 0.0947548

Alignment:
GCTGGCCCGCAAGCGCCGCG
---TGCGCGCACCCAC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

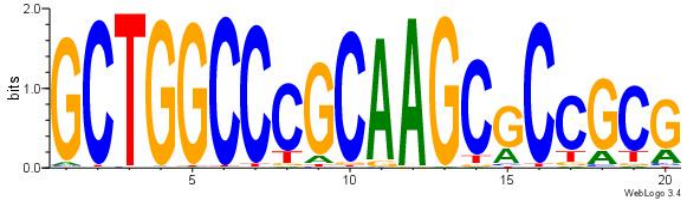

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

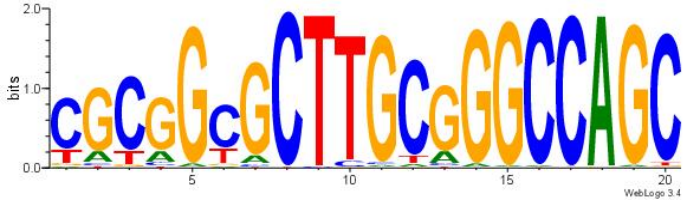

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.095121

Alignment:
GTGGGTGCAGTGCA
GTGGGTGCGCGCA-

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

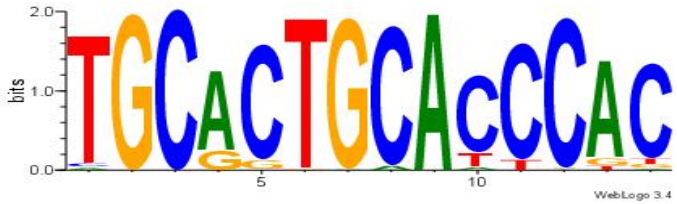

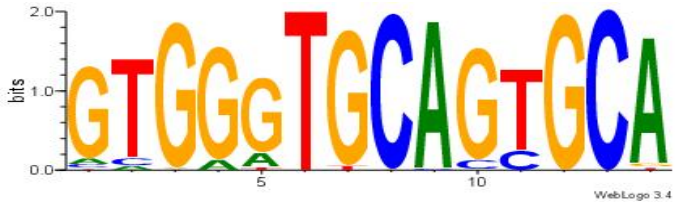

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0959263

Alignment:

```
CCCTGCTAGAACCTCCAA
---TGCGCGCACCCAC--
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

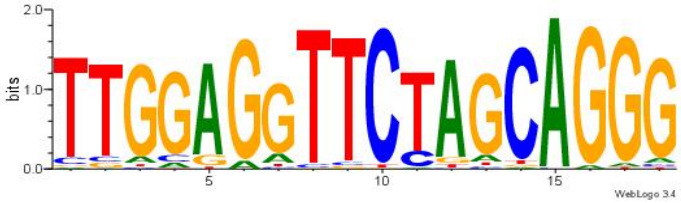

Dataset #: 1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.097565

Alignment:

```
GTCCCATCGACCACCCAAG
-----TGCGCGCACCCAC-
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

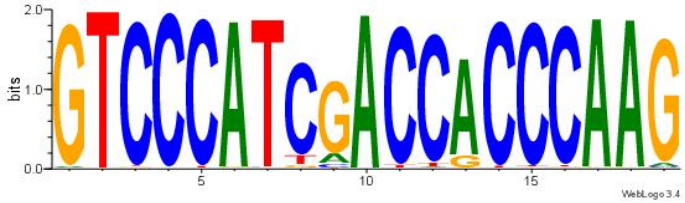

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

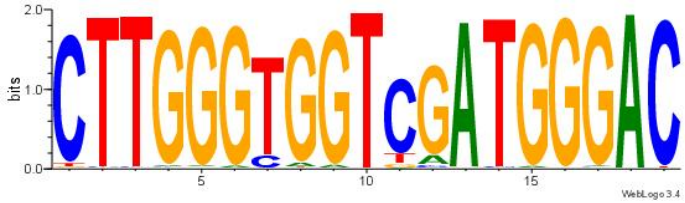

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.0980823

Alignment:
GGGTGCAGGMGGGCTGAGT
--GTGGGTGCGCGCA----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

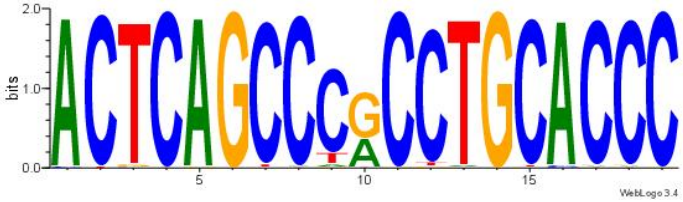

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

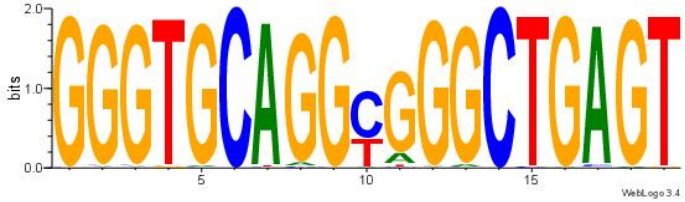

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0981809

Alignment:
AGTTCCGGGTGGGCGTGGG
----GTGGGTGCGCGCA--

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

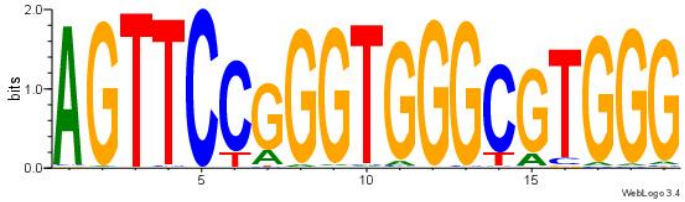

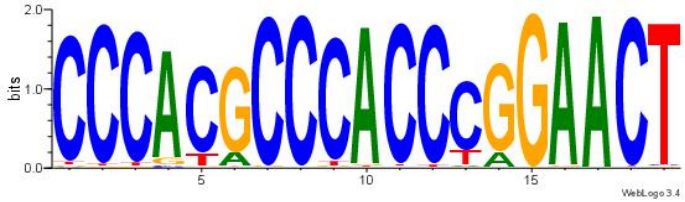

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0997112

Alignment:

```
GKCTGTACCCCCATTGTAT
GTGGGTGCGCGCA------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

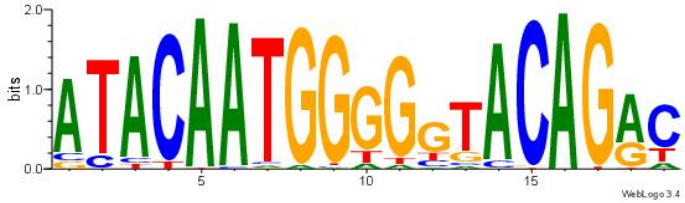

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

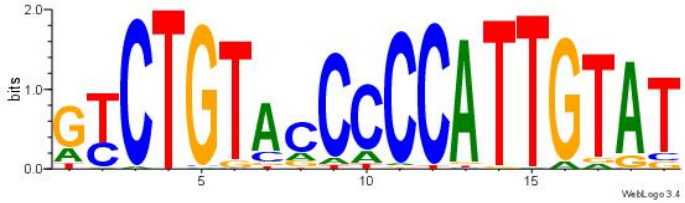

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.09978

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
----TGCGCGCACCCAC---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

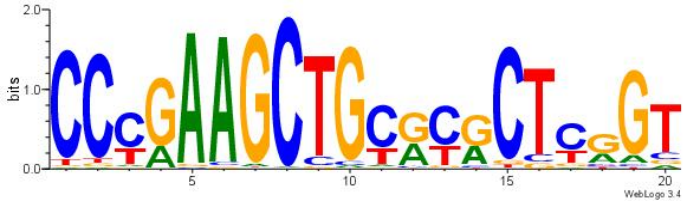

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

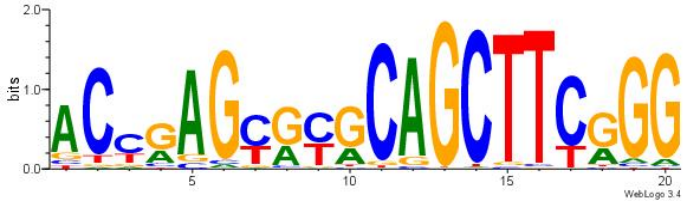

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.103053

Alignment:
AGAAATCGAGCRCAGCGCCG
------TGCGCGCACCCAC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

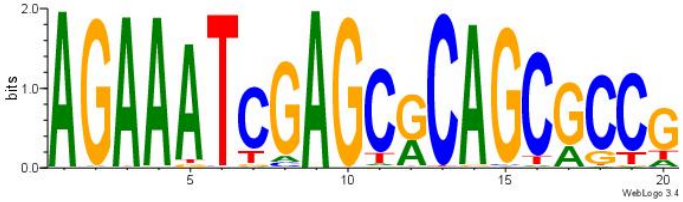

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

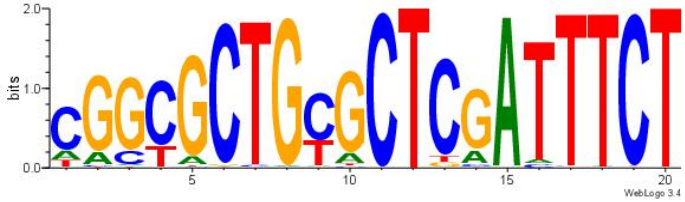

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.104557

Alignment:
GCTGTGTGACCTTGGGCAAG
-----GTGGGTGCGCGCA--

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

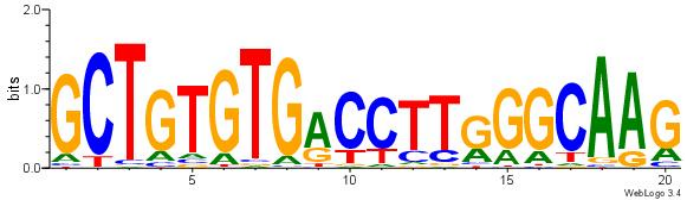

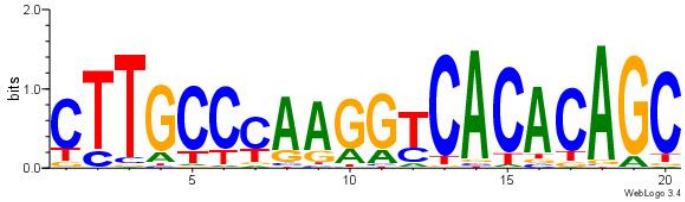

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.106461

Alignment:

```
GMTTAGCTCCCACTTA
TGCGCGCACCCAC---
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

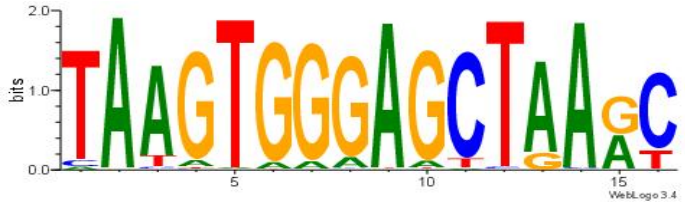

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

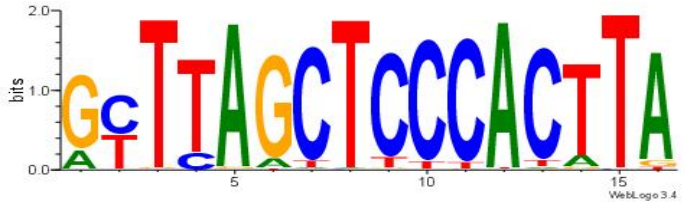

Dataset #:	1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.106928

Alignment:

```
MGTGTGATGTCTCCCCC
----TGCGCGCACCCAC
```

Original motif Consensus sequence: GGGGGAGACATCACACR

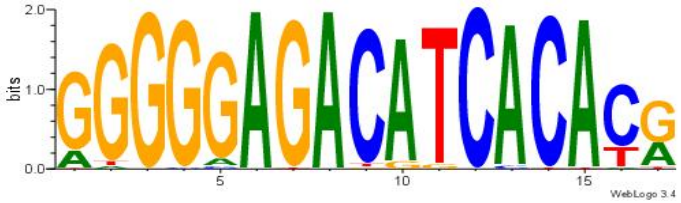

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

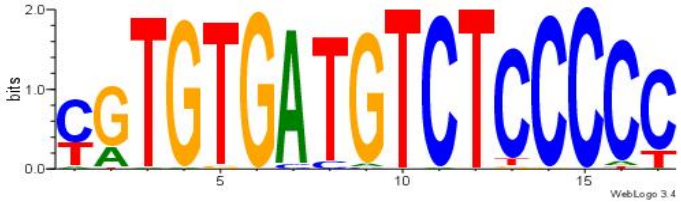

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.107096

Alignment:
TCACKMGGGAAGCGCAAG
--GTGGGTGCGCGCA---

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

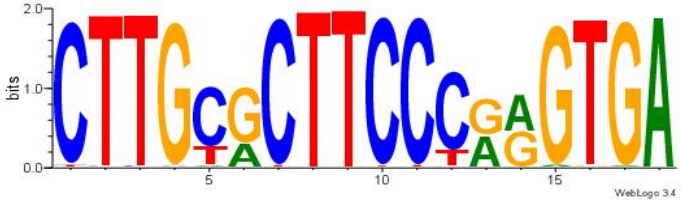

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

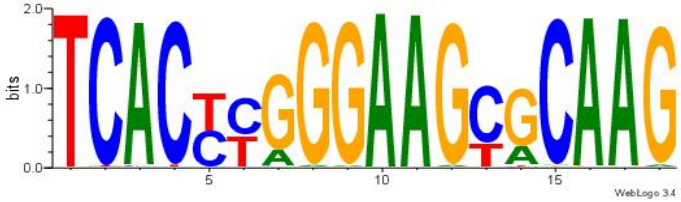

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.107709

Alignment:
VMATTTAKTGAGCACCTACT
------TGCGCGCACCCAC-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

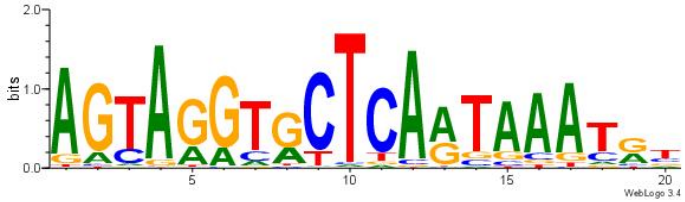

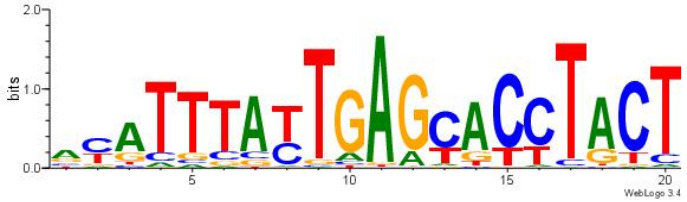

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.107982

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-TGCGCGCACCCAC------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

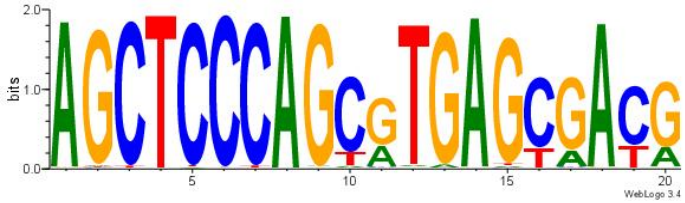

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

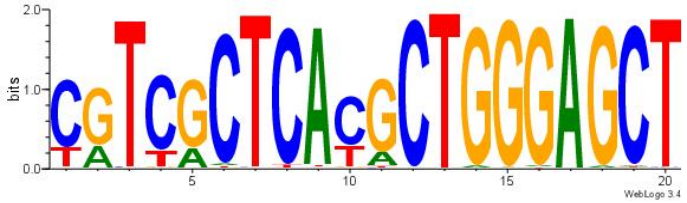

Dataset #:	1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.108093

Alignment:

```
TGTGTGTGTGTKTGTGTGT
---GTGGGTGCGCGCA---
```

Original motif Consensus sequence: ACACACAYACACACACACA

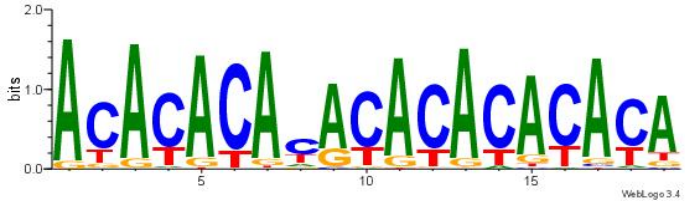

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

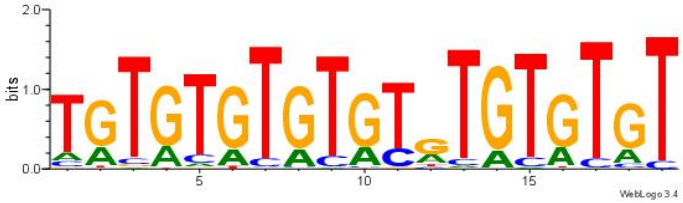

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.109126

Alignment:
CTTTCTGGGCTGGCCAAGG
-----TGCGCGCACCCAC-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

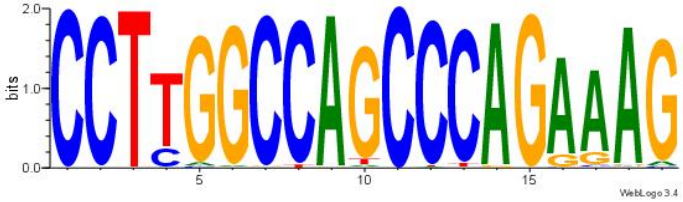

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

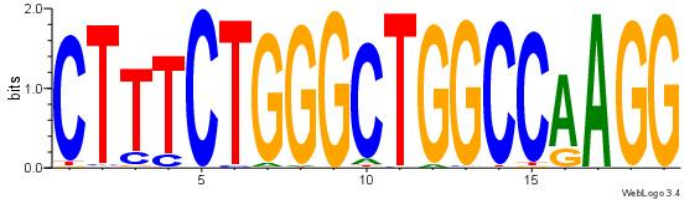

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.109245

Alignment:
CATGGCGGGCTGCAGGTC
-GTGGGTGCGCGCA----

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence:
GACCTGCAGCCCGCCATG

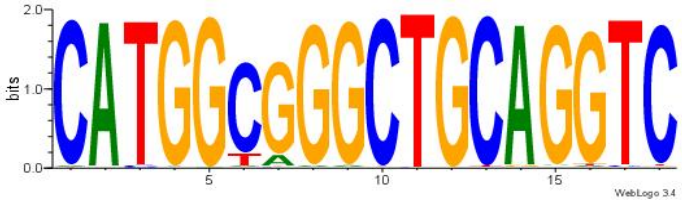

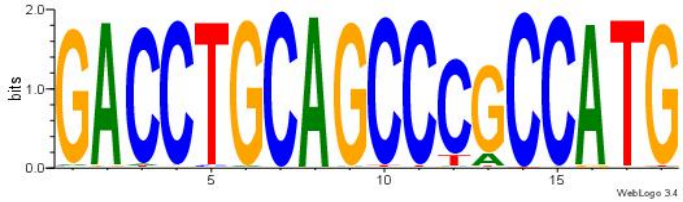

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.109325

Alignment:

```
TCAATGGGCTCCCAAATG
----TGCGCGCACCCAC-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

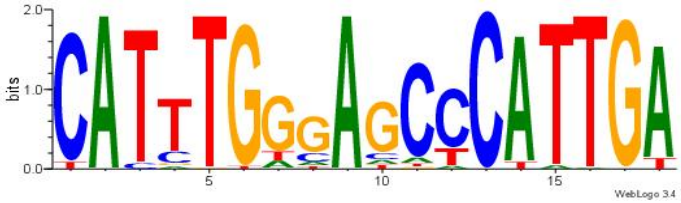

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

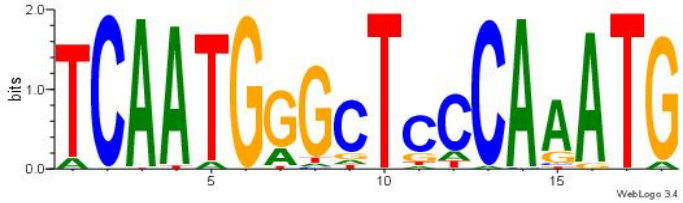

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.10947

Alignment:

```
AGCCYCTGGYAACCAYYAWT
---TGCGCGCACCCAC----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

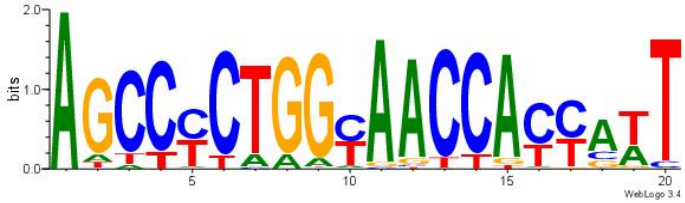

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

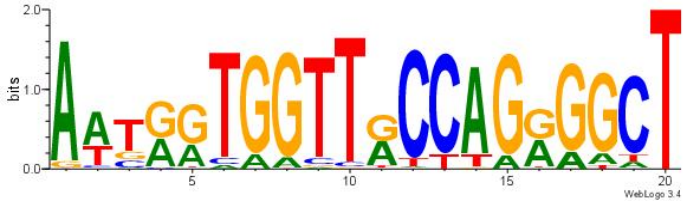

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.109621

Alignment:
CAAGGGTATAYGAGTAGCTG
---GTGGGTGCGCGCA----

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

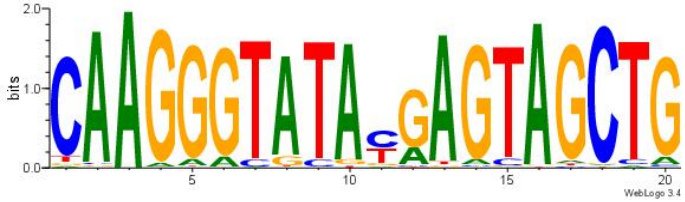

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

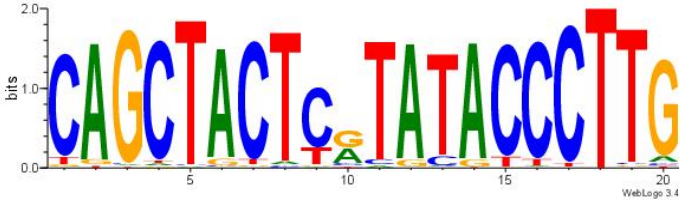

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.110184

Alignment:
TGTAKTCCCAGCTAC
--TGCGCGCACCCAC

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

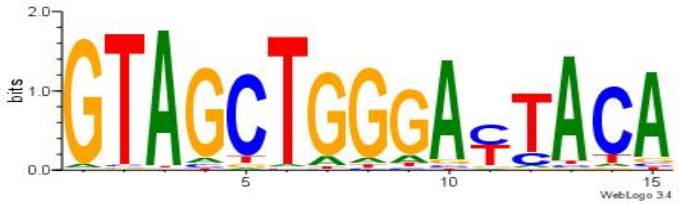

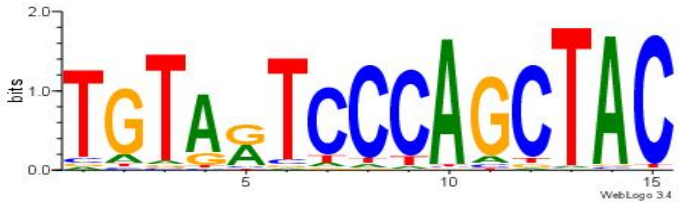

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.110635

Alignment:

```
CCGTGCGCGAGCCG
GTGGGTGCGCGCA-
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

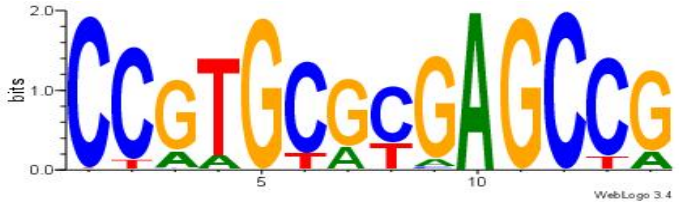

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

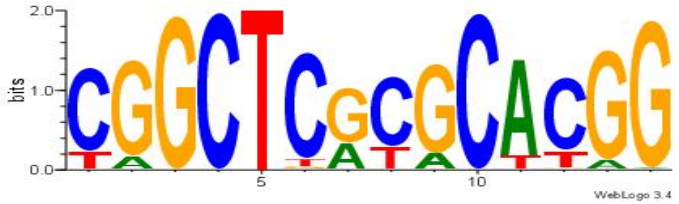

Dataset #:	1
Motif ID:	6

Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.111085

Alignment:

```
GCTCACTGCAASCTC
TGCGCGCACCCAC--
```

Original motif Consensus sequence: GCTCACTGCAASCTC

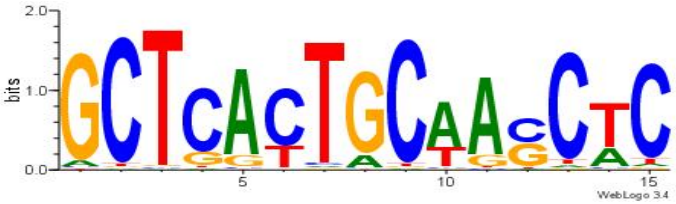

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

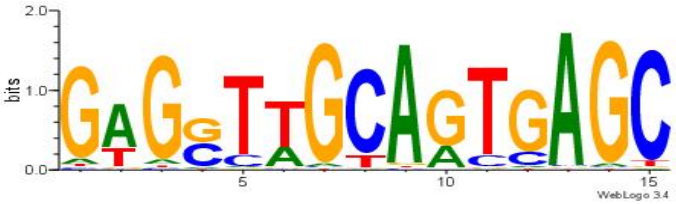

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.111436

Alignment:
CAGGTGGTKTTTGGTTACAT
------GTGGGTGCGCGCA-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

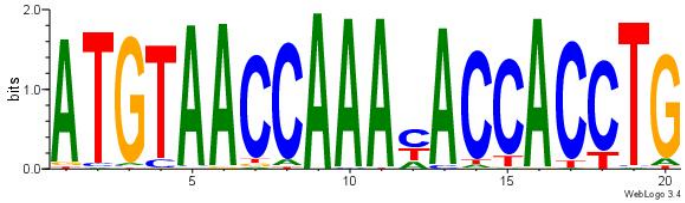

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

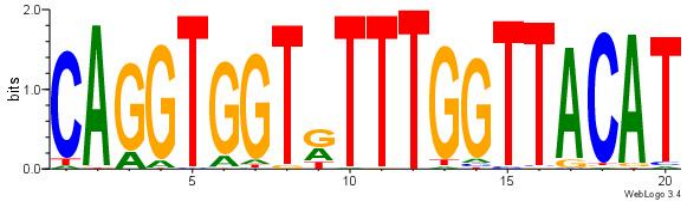

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.11162

Alignment:
GGCACTGCTGGGGGACCCAG
------GTGGGTGCGCGCA-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

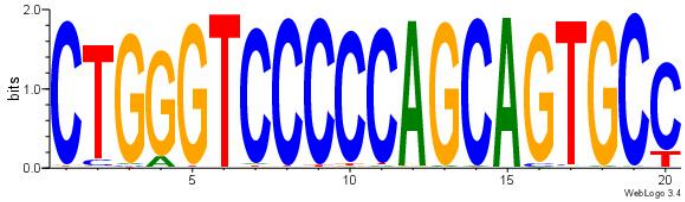

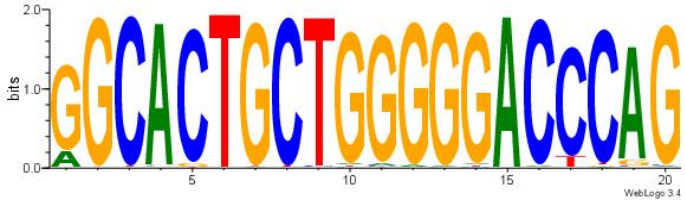

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.112321

Alignment:

```
AGCCCCGGTTCCCGCYCGC
---GTGGGTGCGCGCA---
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

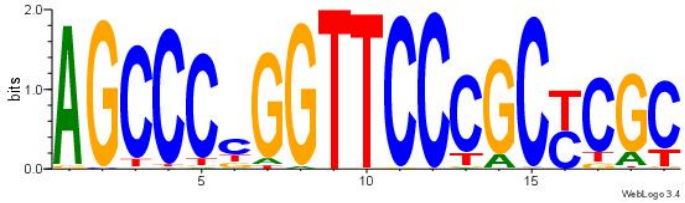

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

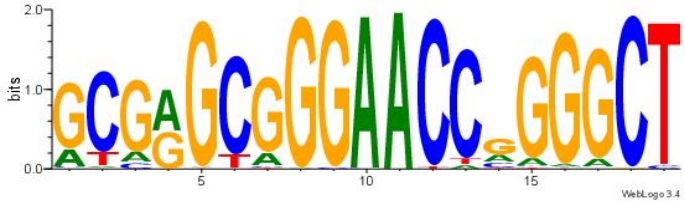

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.112569

Alignment:

```
GGGAGGAAGGGGACAC
--GTGGGTGCGCGCA-
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

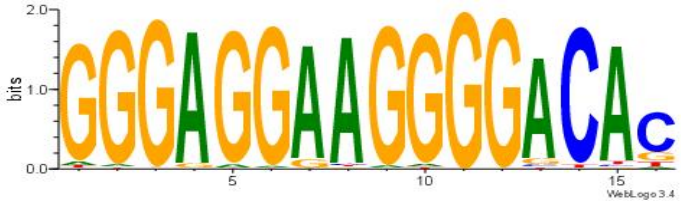

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

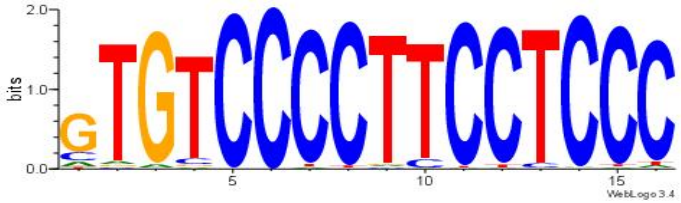

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.112646

Alignment:
CAAGCGCCAGCTCATGTC
--TGCGCGCACCCAC---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

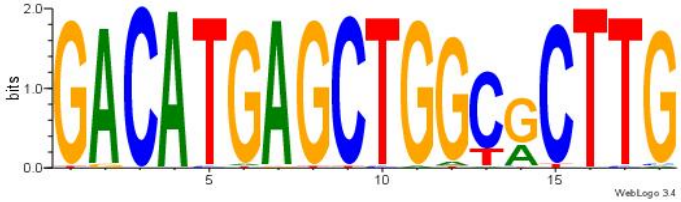

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

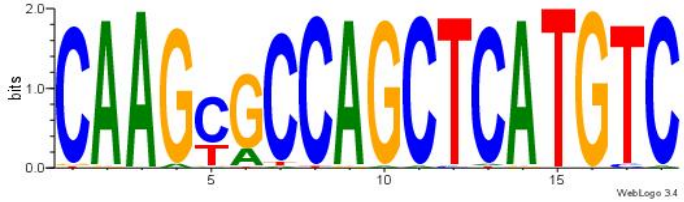

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.112998

Alignment:
GGTGGAGCTGCCTGCCAGTC
---GTGGGTGCGCGCA----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

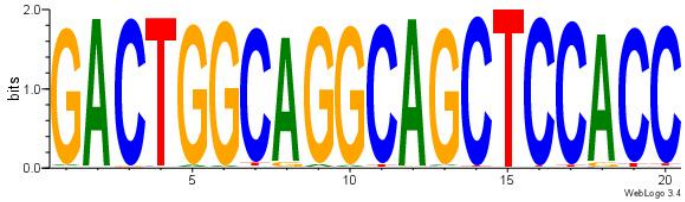

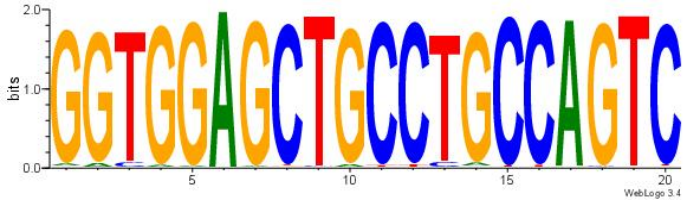

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113292

Alignment:

```
ATTGGTGTATTTACAATCCC
GTGGGTGCGCGCA-------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

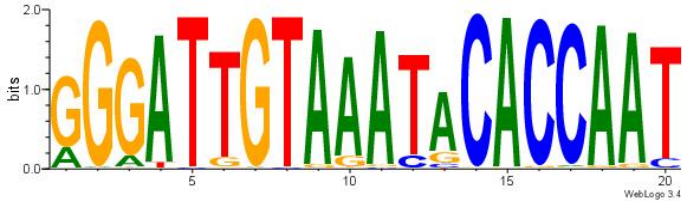

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.11351

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--GTGGGTGCGCGCA-----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

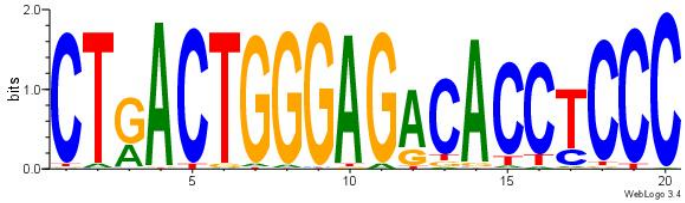

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

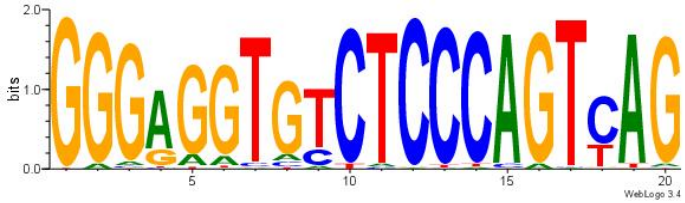

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.11365

Alignment:
TGGATGGATGGATGGAT
---GTGGGTGCGCGCA-

Original motif Consensus sequence: ATCCATCCATCCATCCA

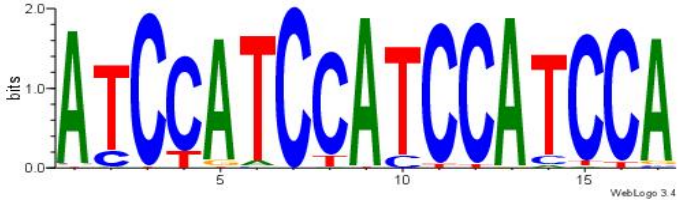

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.114078

Alignment:
CGAGCCCTGCCCCGCGG
--TGCGCGCACCCAC--

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

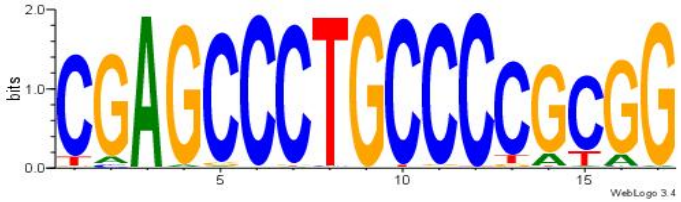

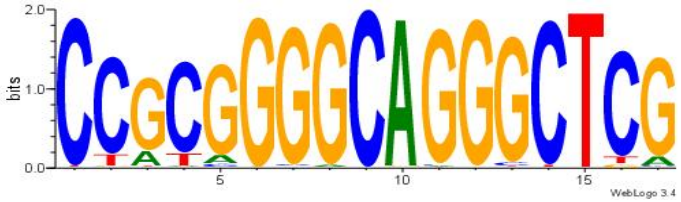

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.114507

Alignment:

```
GGAGCCCACGGAGG
TGCGCGCACCCAC-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

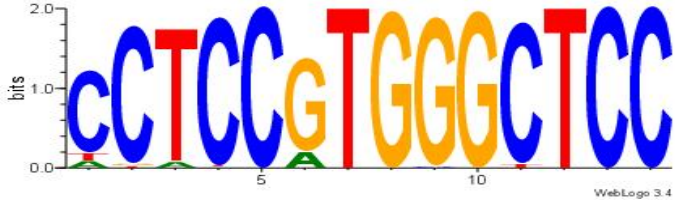

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

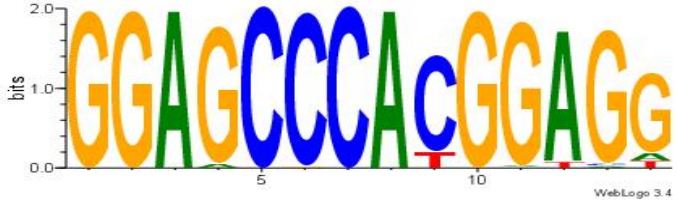

Dataset #:	1
Motif ID:	42

Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.115814

Alignment:

```
GCGGCCGGGCAGAG
-GTGGGTGCGCGCA
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

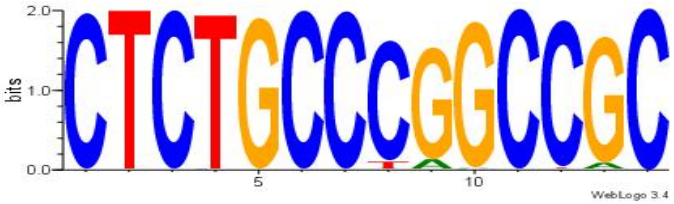

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

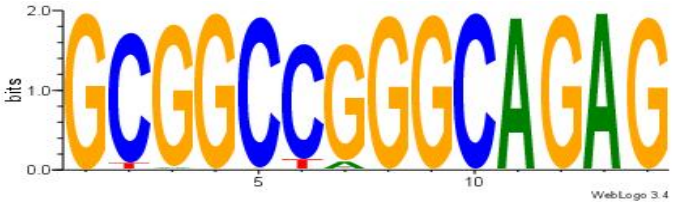

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.115837

Alignment:
AGTGAGAACATRYRRTRTTT
-GTGGGTGCGCGCA------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

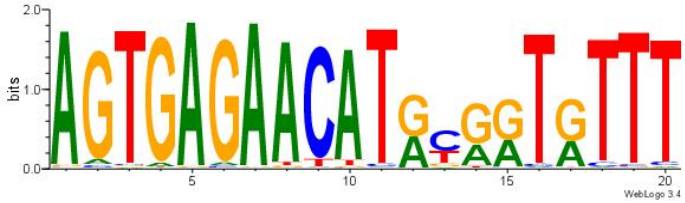

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

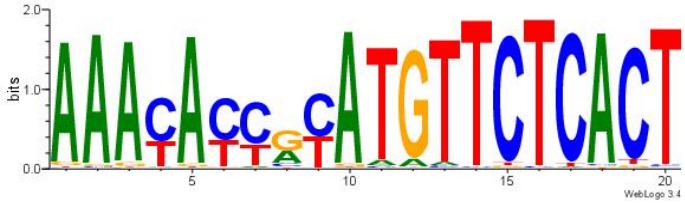

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.116985

Alignment:
AGGAGCGCCTCTGC
-TGCGCGCACCCAC

Original motif Consensus sequence: GCAGAGGCGCTCCT

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

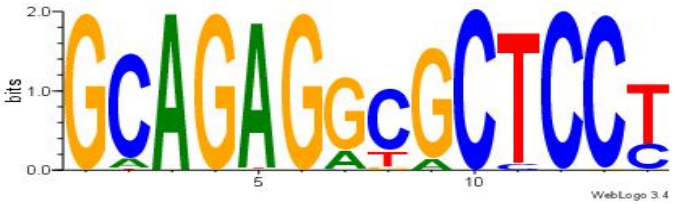

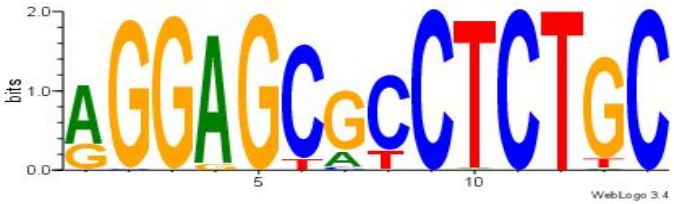

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.117353

Alignment:

```
CGCCCGGCCAGCCGC
--TGCGCGCACCCAC
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

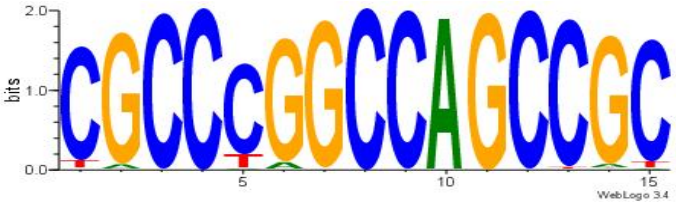

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

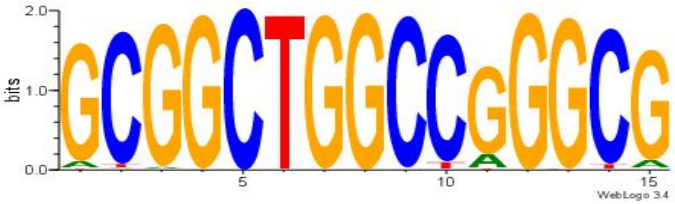

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.117555

Alignment:

```
TGCTGGAGGTCCACTCCAGA
----GTGGGTGCGCGCA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

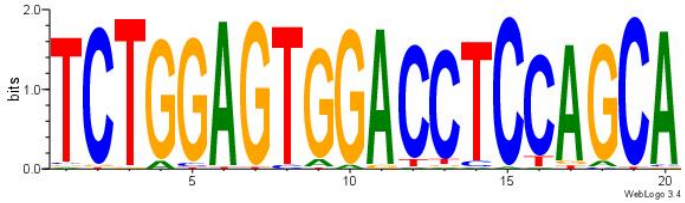

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

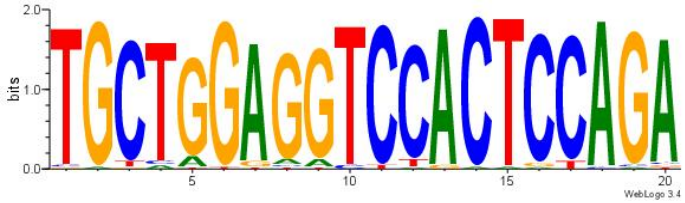

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.118624

Alignment:
KGGGCDGAGGGGCTCCT
TGCGCGCACCCAC----

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

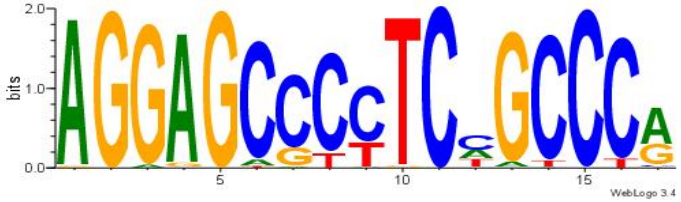

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.118811

Alignment:
CCTGCCATTGCYSAGGCTTG
--TGCGCGCACCCAC-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

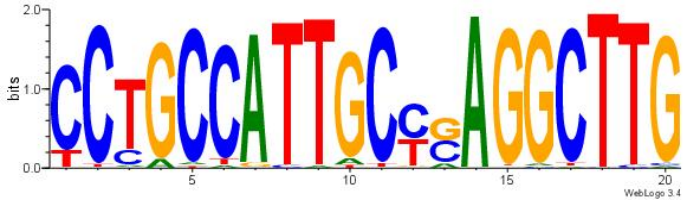

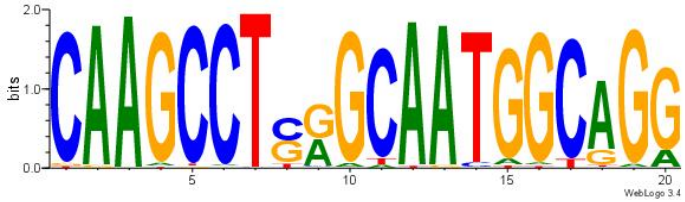

Dataset #: 1 **Motif ID: 52** **Motif name: Motif 52**

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

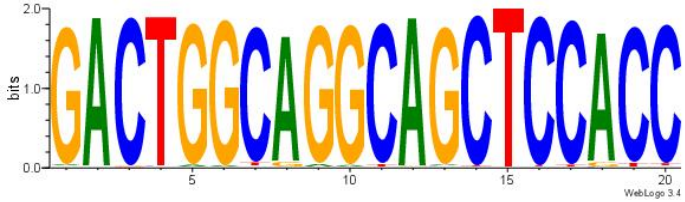

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

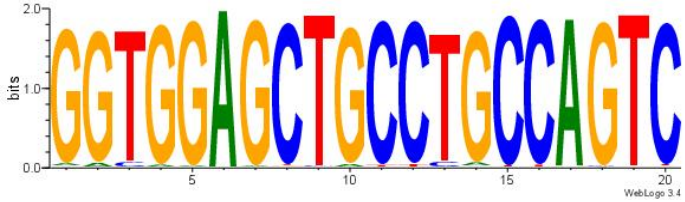

Best Matches for Motif ID 52 (Highest to Lowest)

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.108621

Alignment:

TGCTGGAGGTCCACTCCAGA
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

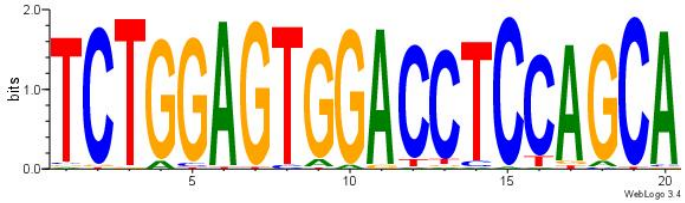

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

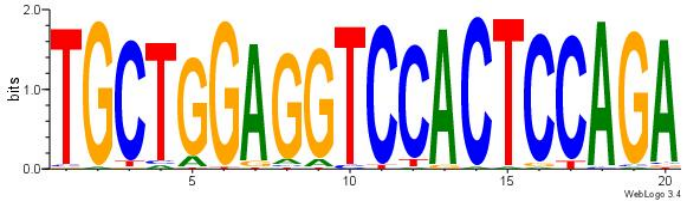

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118973

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

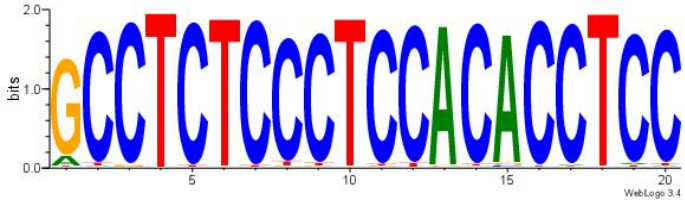

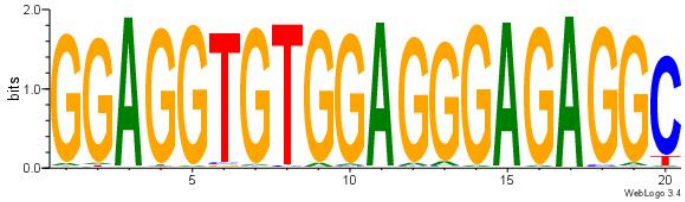

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11909

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

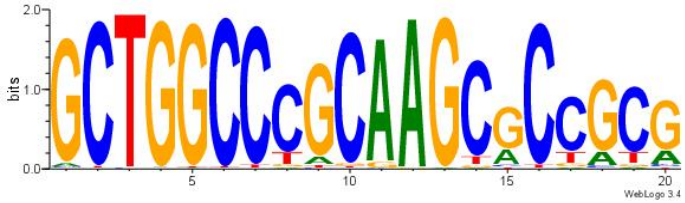

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

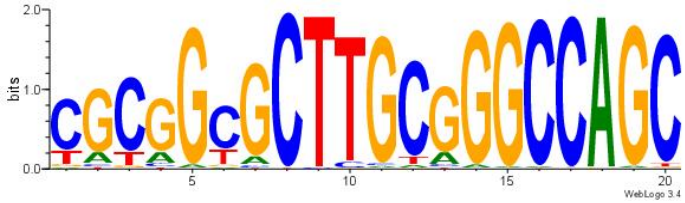

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122785

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

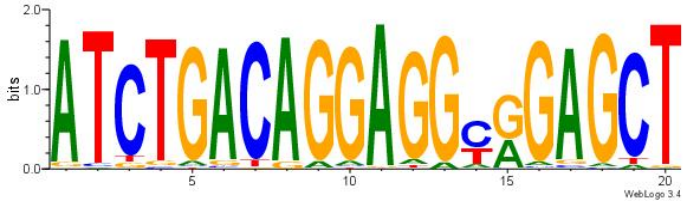

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

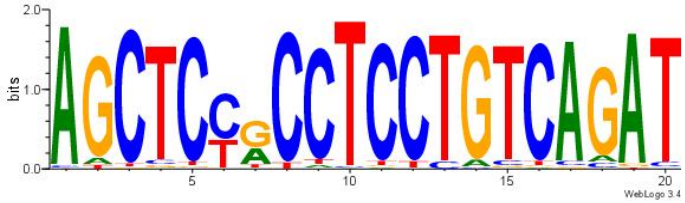

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.125451

Alignment:
CCCGAAGCTGCRYRCTCGGT
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

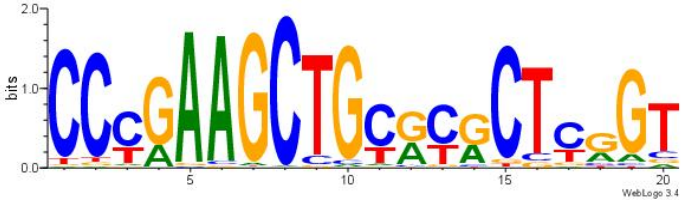

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

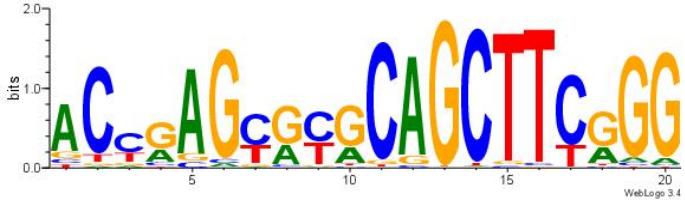

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131044

Alignment:
GGGTCAGGGAGTTCCCTTTC
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

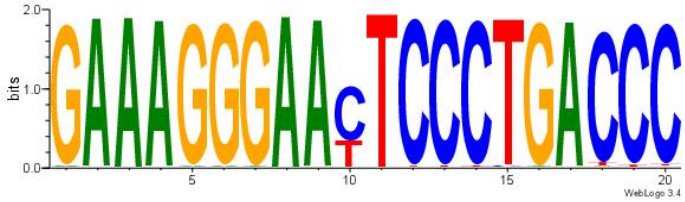

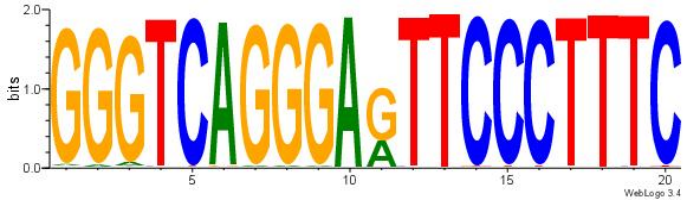

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131712

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

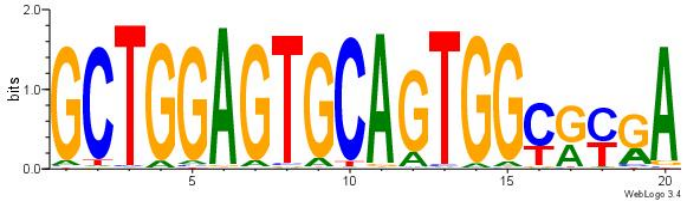

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

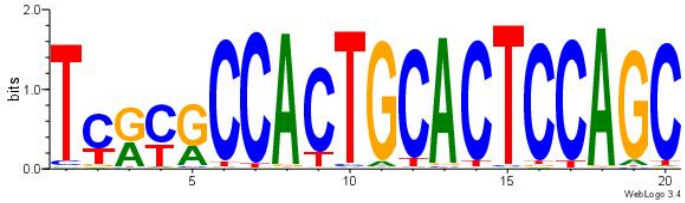

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131779

Alignment:

```
AGTGACCCGATTTTCCAGGT
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

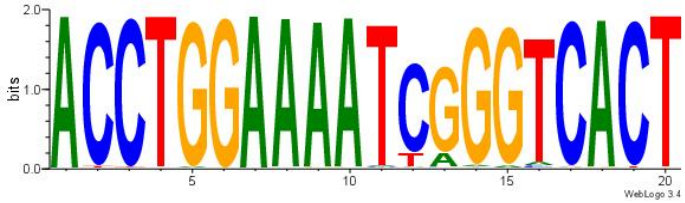

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

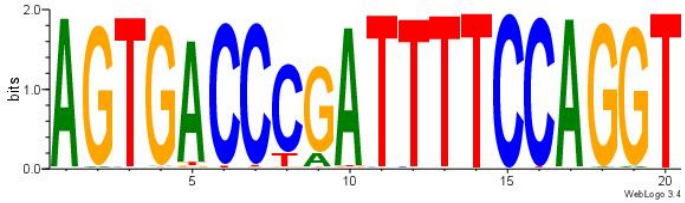

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137092

Alignment:
AGCTCCCAGCGTGAGCGACG
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

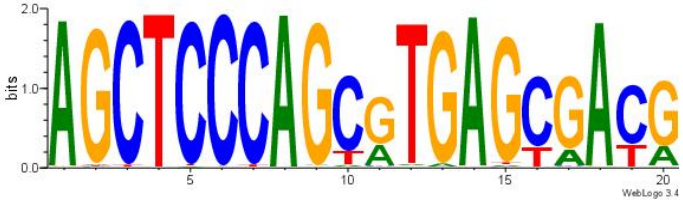

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

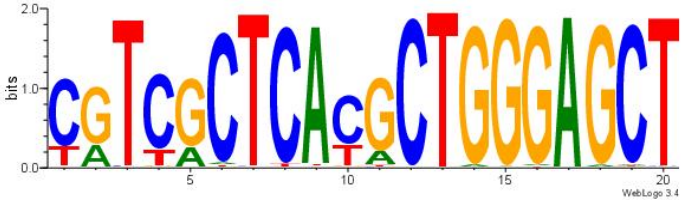

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138189

Alignment:
GCCAGTCACAAAARGACAMA
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

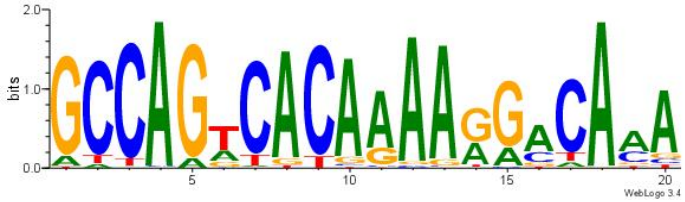

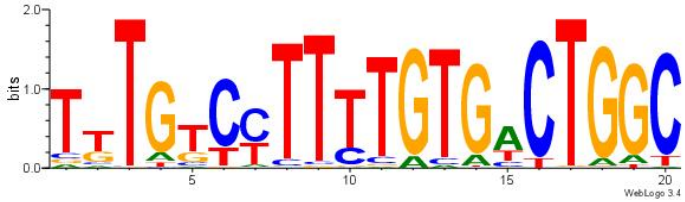

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138809

Alignment:

```
ACTCCCTAGTGAGATGAACC
GACTGGCAGGCAGCTCCACC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

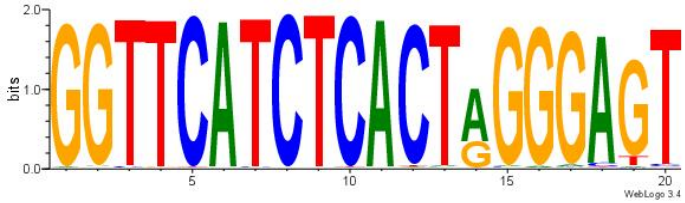

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

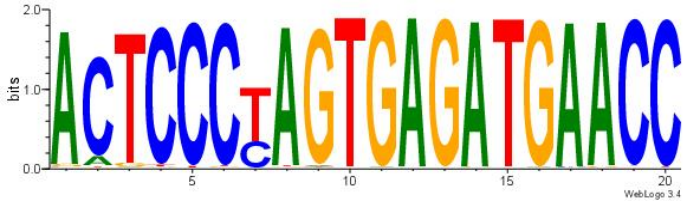

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13941

Alignment:

```
CRTGAGCCACYGYRCCYGGC
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

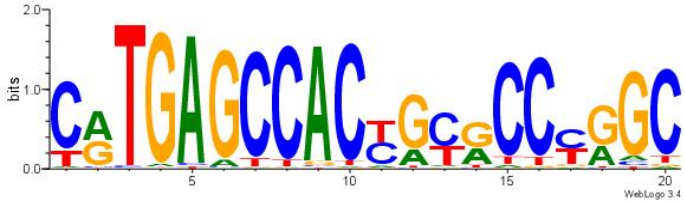

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

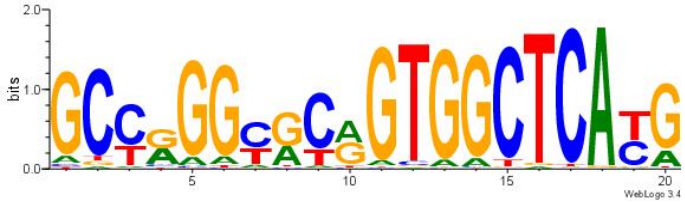

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14284

Alignment:
GAGAGAGAGAGAGAGAGAGA
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

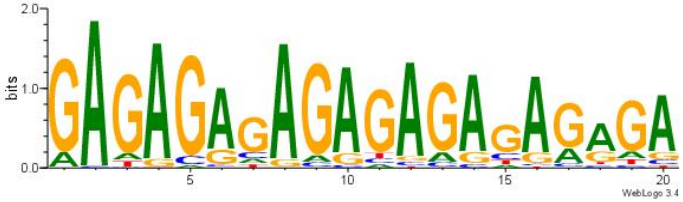

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

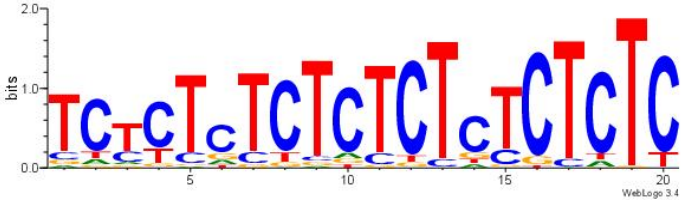

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143722

Alignment:
GGCACTGCTGGGGGACCCAG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

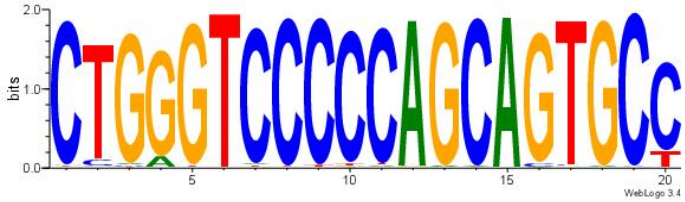

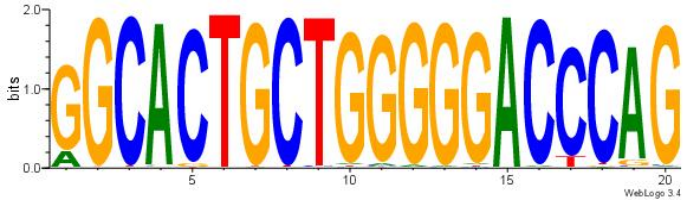

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147038

Alignment:

```
CTCAGTGTTAATCTCCTGTC
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

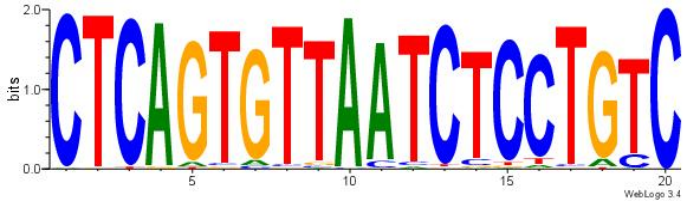

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

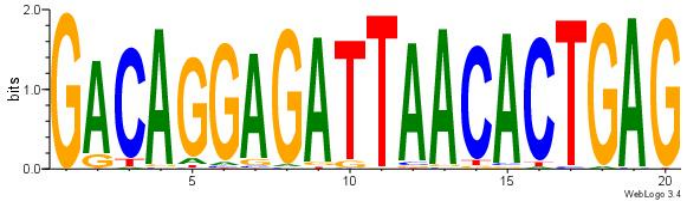

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14804

Alignment:

GGAGCCGGCTCCCTCAGCTT

GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

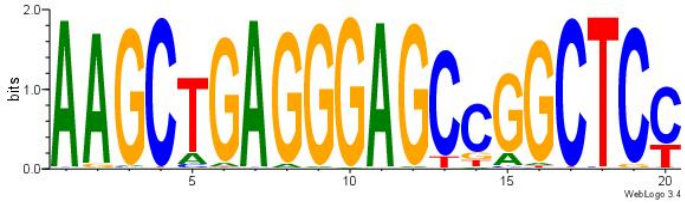

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

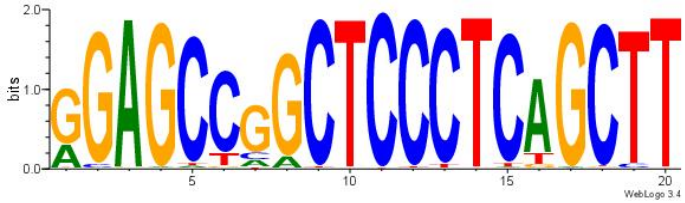

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148538

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

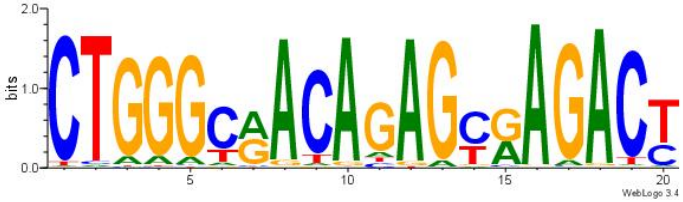

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

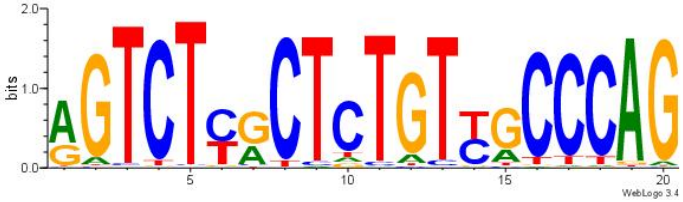

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149899

Alignment:
GAAGGCAGCTAAGGCCCGGY
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

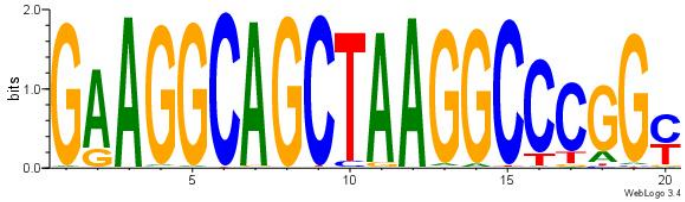

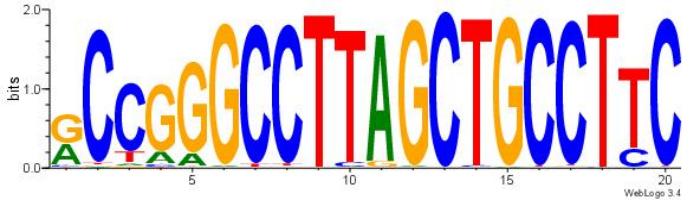

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151019

Alignment:
TTGGTAGGATCCGTGATGCC
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

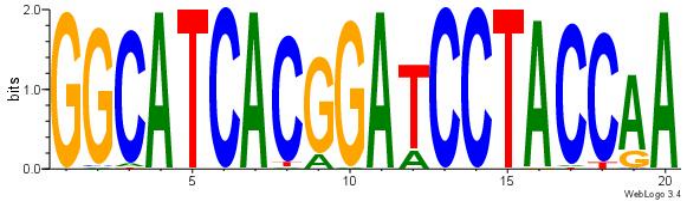

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

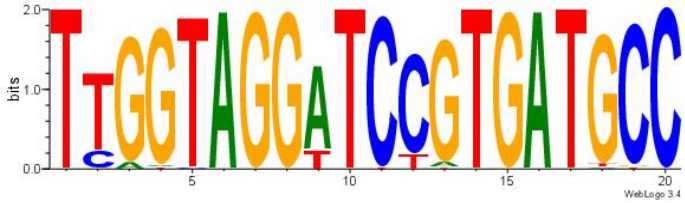

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151337

Alignment:

```
AAGCAGGGCGAGGCATTGCC
GACTGGCAGGCAGCTCCACC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

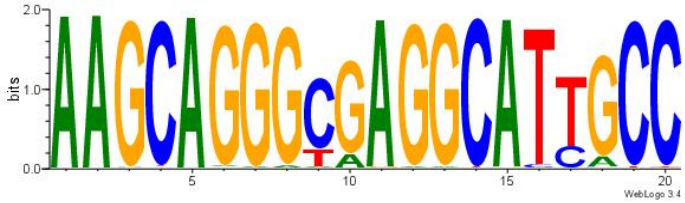

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

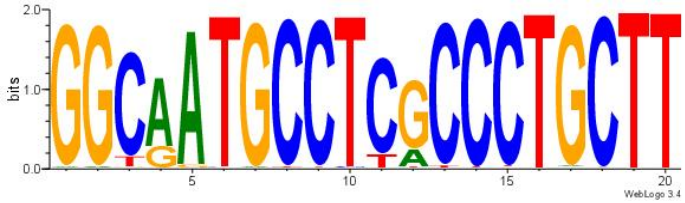

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152033

Alignment:
CATTCTGGGGTCTGGAGGAY
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

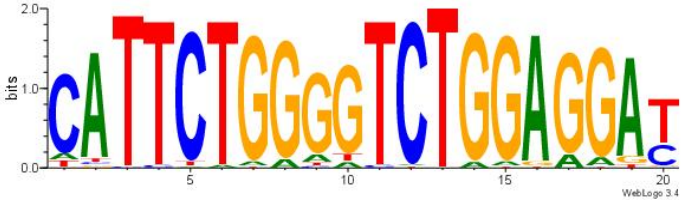

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

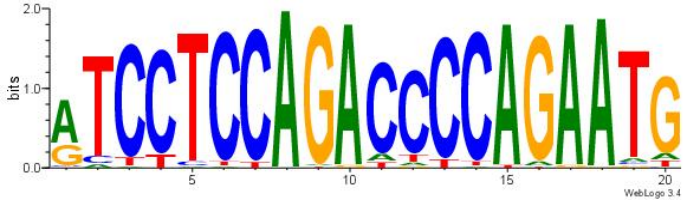

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153827

Alignment:
TMGGGAGGCTGAGGCAGGAG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

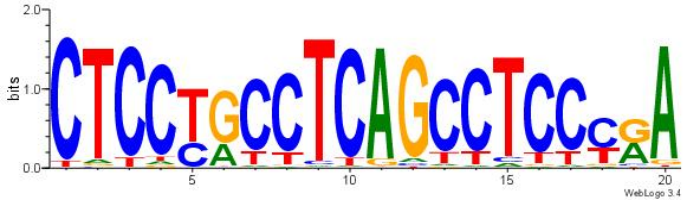

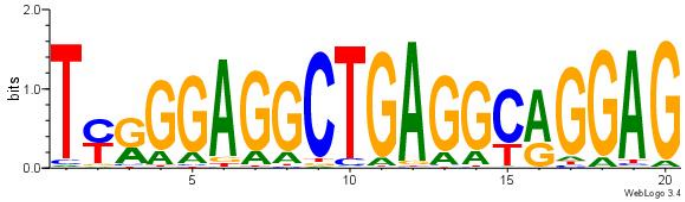

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155443

Alignment:
GGATTTMKGACTTGCATGGG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

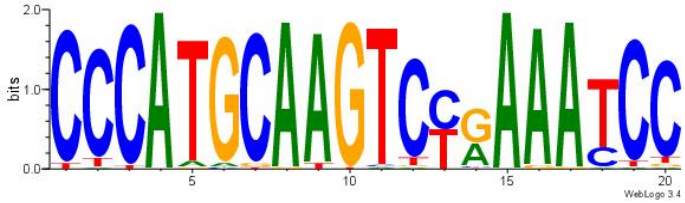

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

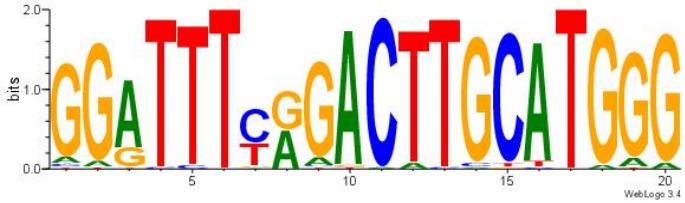

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157075

Alignment:

GCCKCCCCGTCCGGGAGGGA

GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

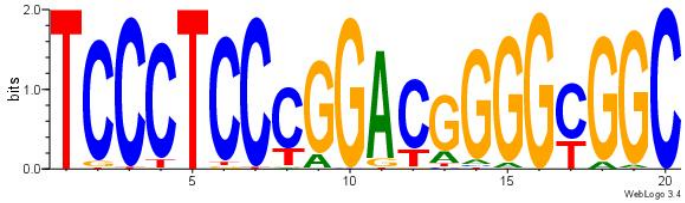

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

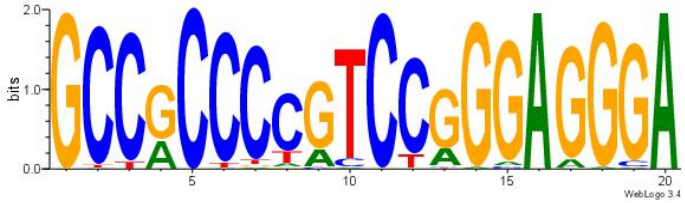

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157684

Alignment:
GTGGCCCTCTTCTCACAGCT
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

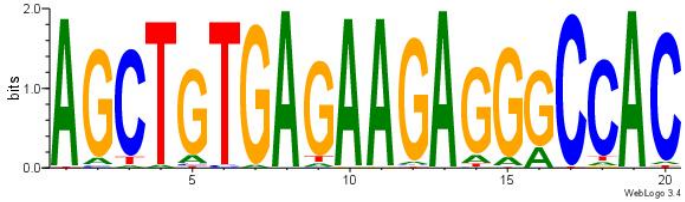

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

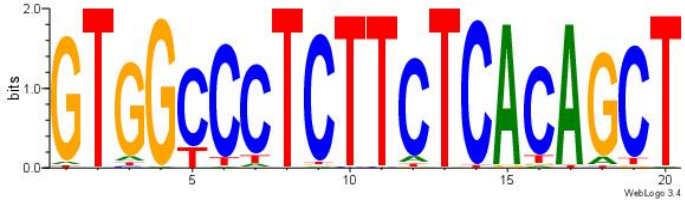

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158398

Alignment:
CACCAGGAGATTATATCCCR
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

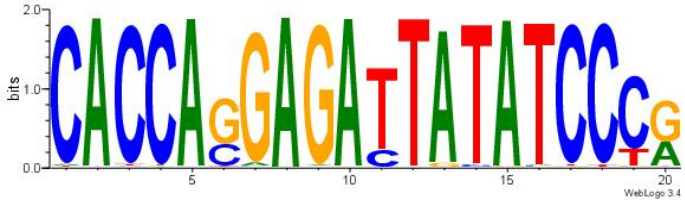

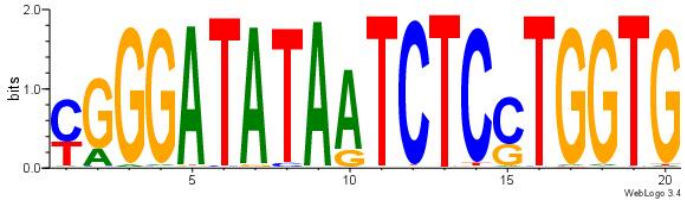

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16062

Alignment:

```
GGATCCACTGGGTGAAGCCA
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

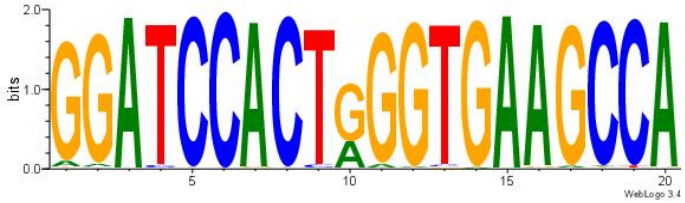

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

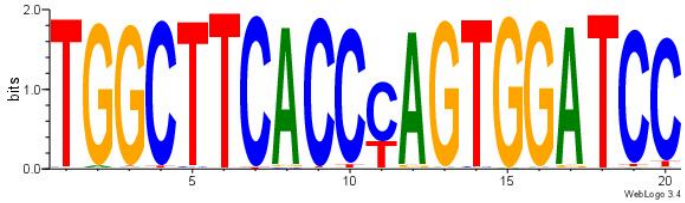

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16062

Alignment:

```
GCACATGTAYCCYAGAACTT
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

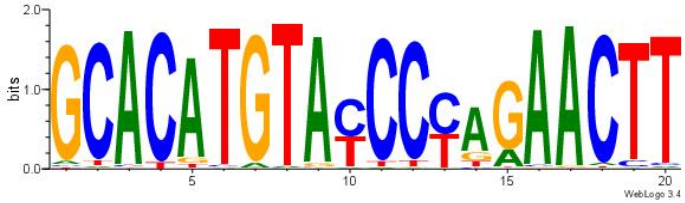

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

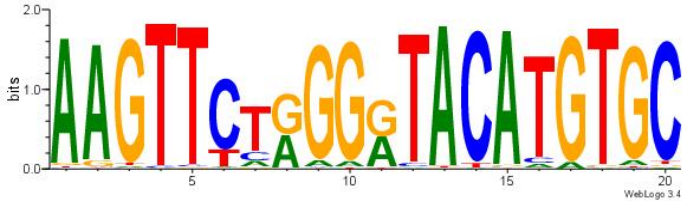

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162261

Alignment:
CAAGCCTSKGCAATGGCAGG
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

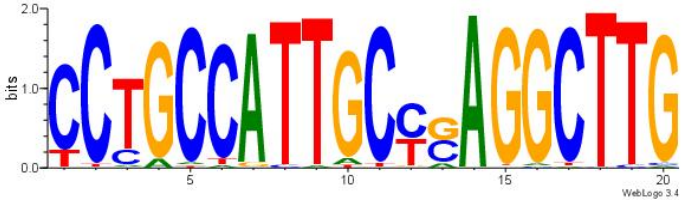

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

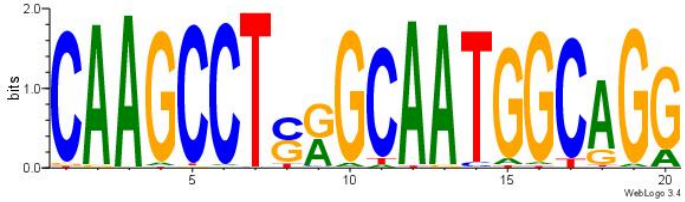

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164975

Alignment:
AAGCTCGAACTGGGTGGAGC
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

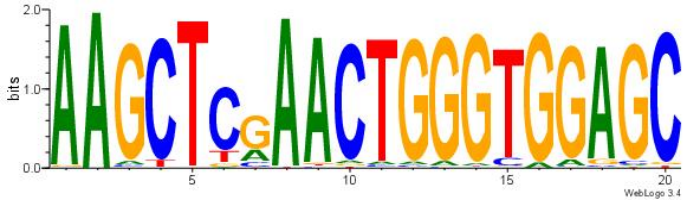

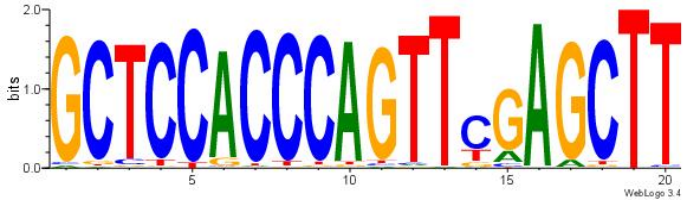

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165598

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
GACTGGCAGGCAGCTCCACC
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

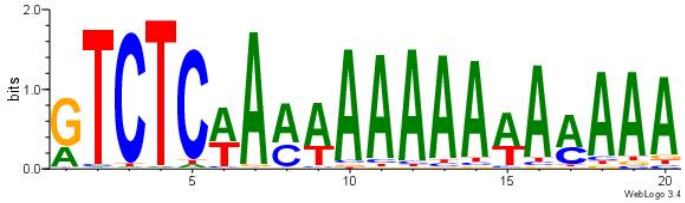

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

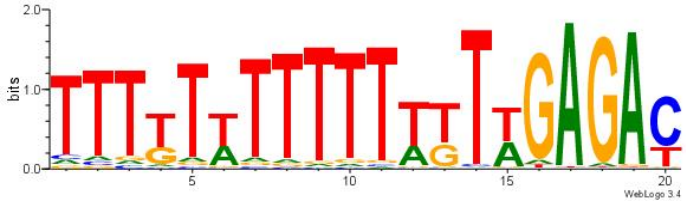

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165956

Alignment:

```
HAGTGGKATTGCTGGATCAT
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

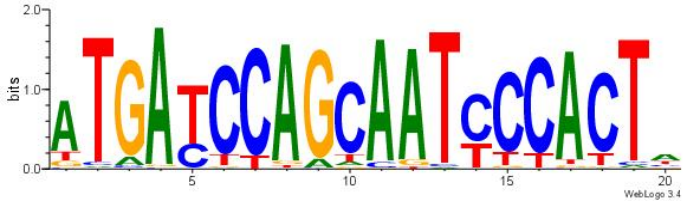

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

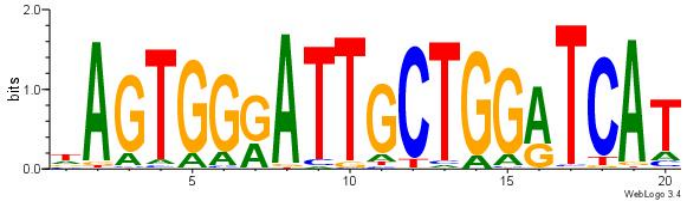

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16614

Alignment:
CTGGGCTCCTGAGTCTGGTG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

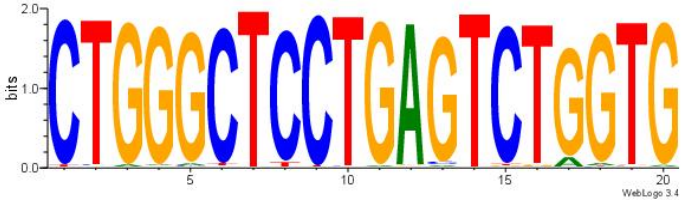

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

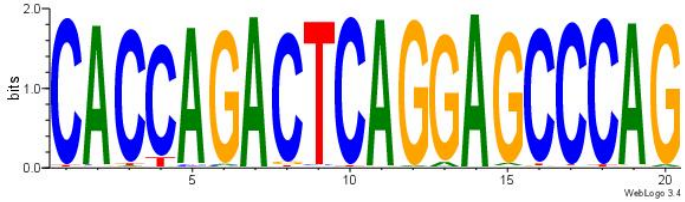

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166737

Alignment:
AGCCYCTGGYAACCAYYAWT
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

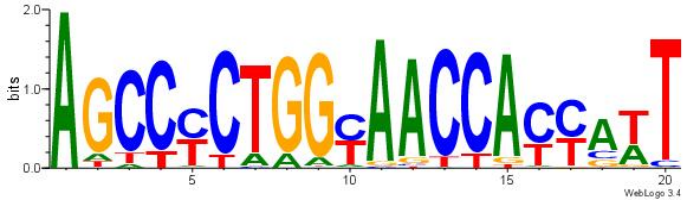

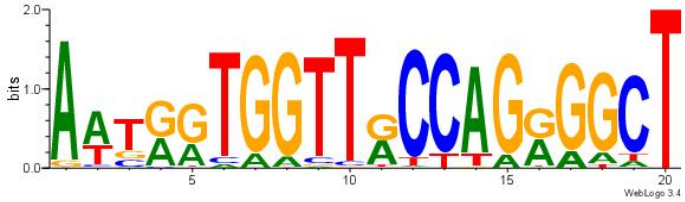

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167011

Alignment:

```
ACACATCACAAAGCAGTTTC
GACTGGCAGGCAGCTCCACC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

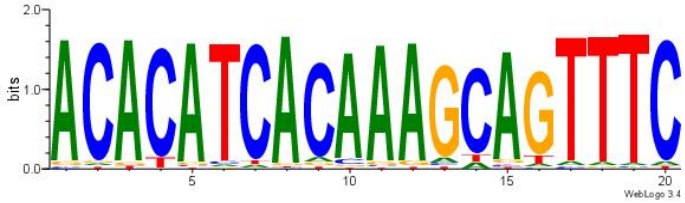

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

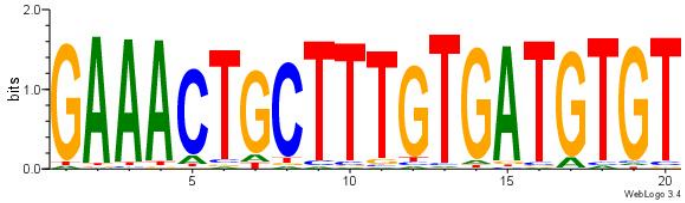

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167485

Alignment:
GGGCTCCCACAGTGCAGCGG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

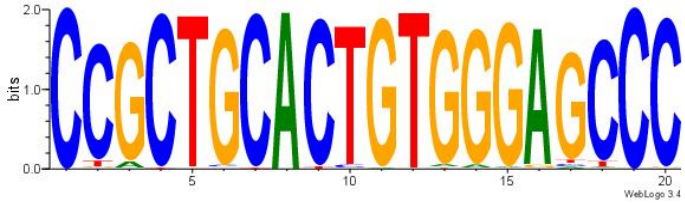

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

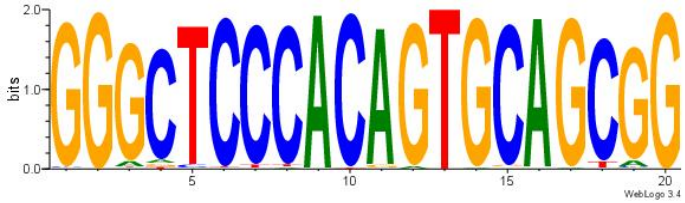

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.167842

Alignment:
AGGACTGAGGGTGCCYRGGG
GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

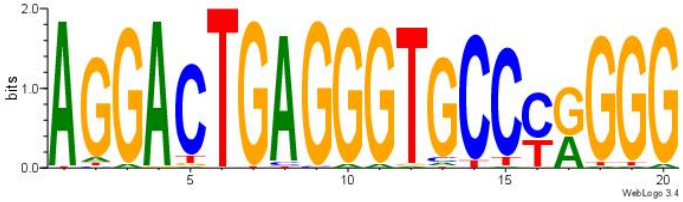

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

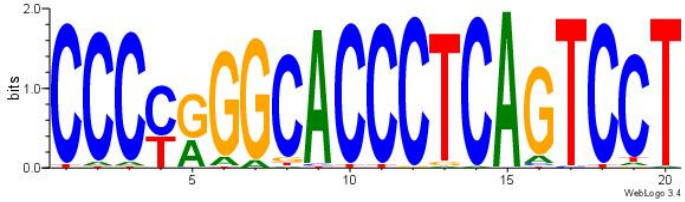

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16852

Alignment:
AAGGAACAAACTCCRGACAC
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

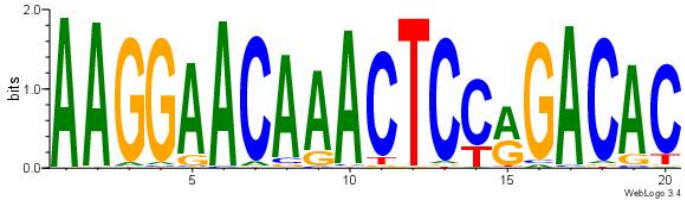

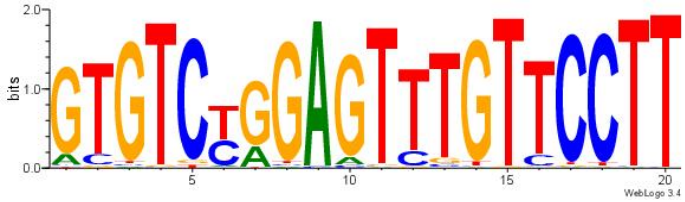

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168687

Alignment:

```
ACTGTCTTCCACCTCCACAT
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

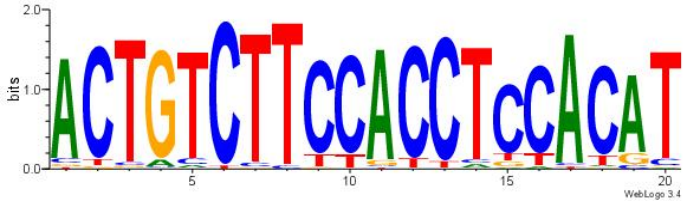

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

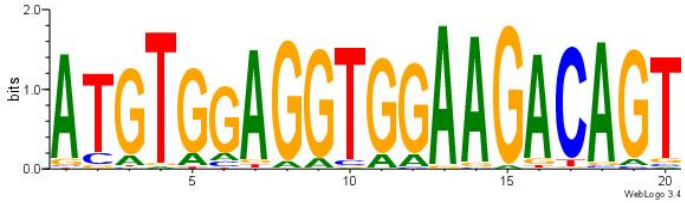

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168899

Alignment:

```
CAAGTTGACACATAAAATTA
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

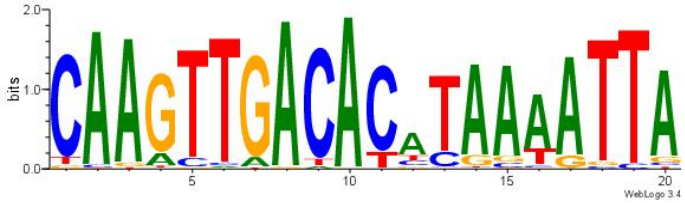

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

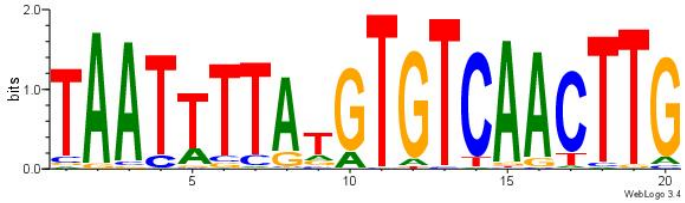

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16969

Alignment:
ARCTCCTGKSCTCAAGKGAT
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

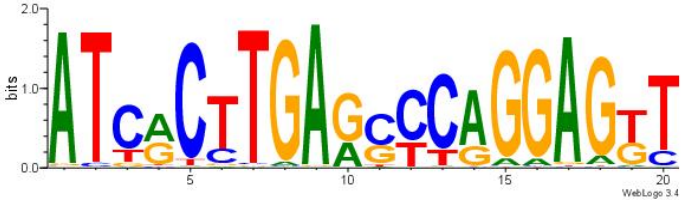

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

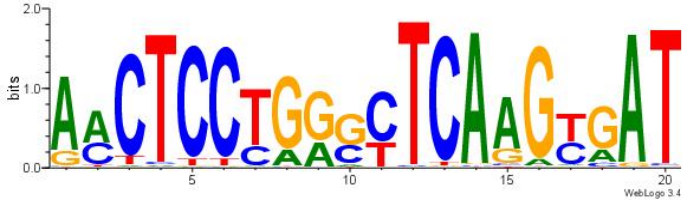

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.170856

Alignment:
CAAGGGTATAYGAGTAGCTG
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

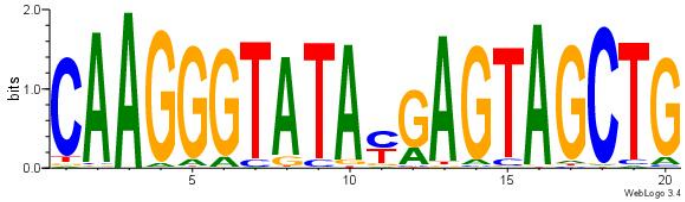

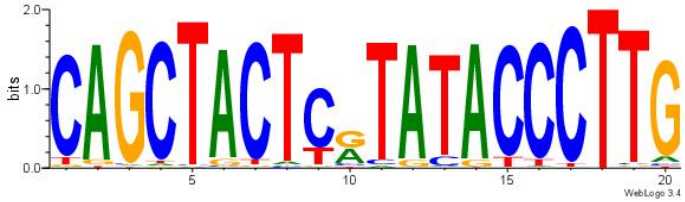

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.170987

Alignment:

```
AGGTTTGTTACATAGGTAWA
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

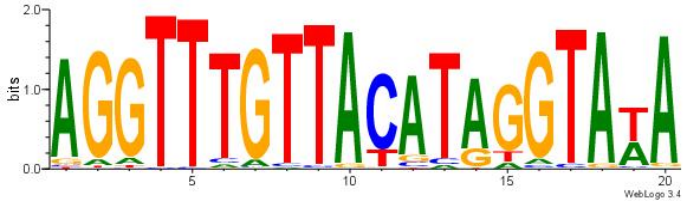

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

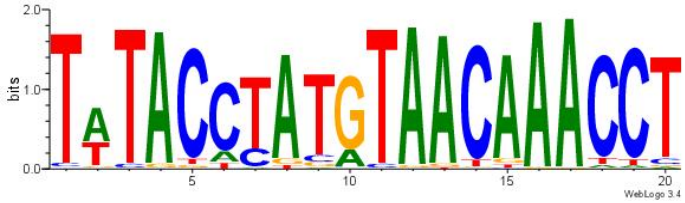

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.171791

Alignment:

GCTGTGTGACCTTGGGCAAG

GGTGGAGCTGCCTGCCAGTC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

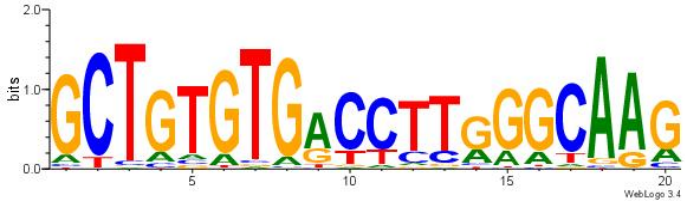

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

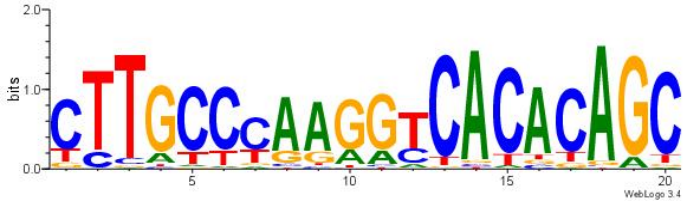

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.171942

Alignment:
AAGTCCAAGATCAAGGTGYY
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

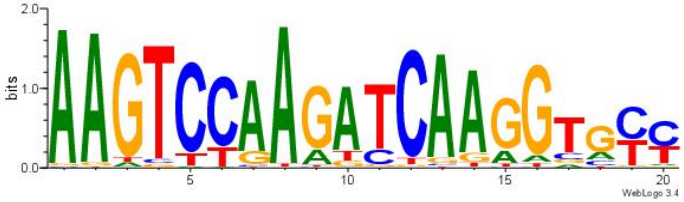

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

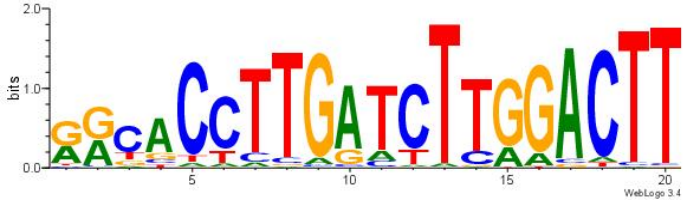

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.173196

Alignment:
ACCKTCGCGGTGAGTGTTAC
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

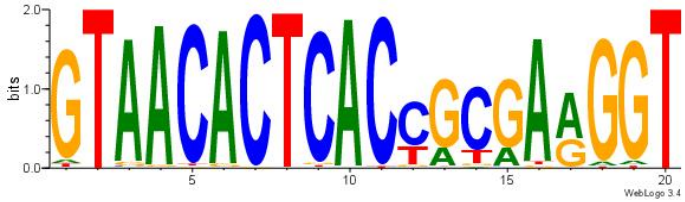

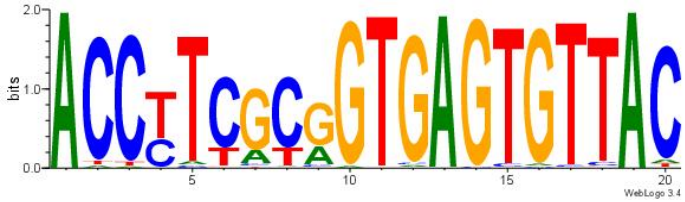

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.173328

Alignment:

```
AGTGAGAACATRYRRTRTTT
GGTGGAGCTGCCTGCCAGTC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

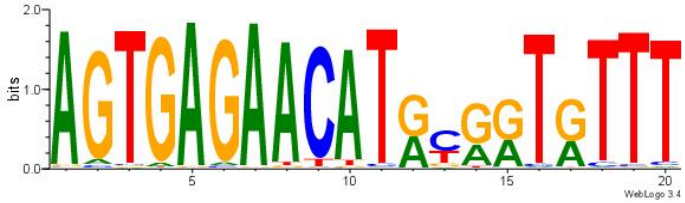

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

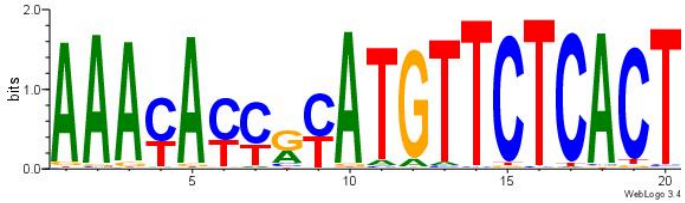

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.173554

Alignment:

```
CMTAGYACAGTGCCTGGCAC
GACTGGCAGGCAGCTCCACC
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

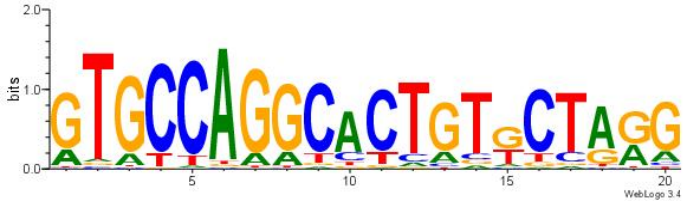

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

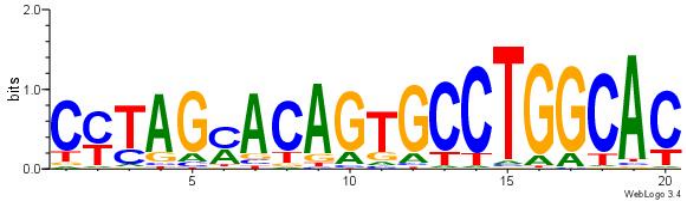

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.17358

Alignment:
GAAHCAACCKAAKTGTCCAT
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

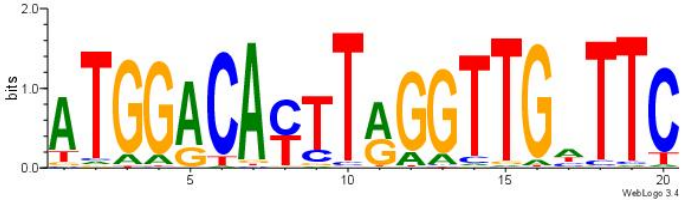

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

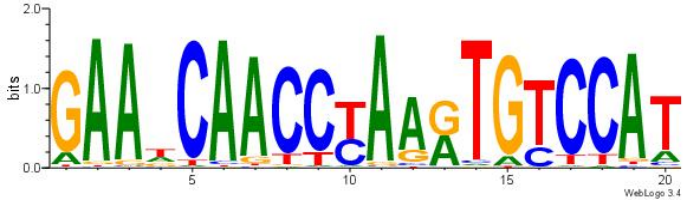

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.174602

Alignment:
GCGCTCKTCGGGGAGGCTCG
GACTGGCAGGCAGCTCCACC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

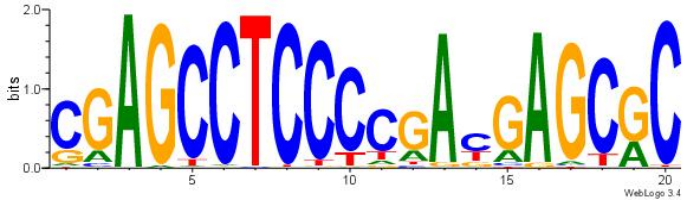

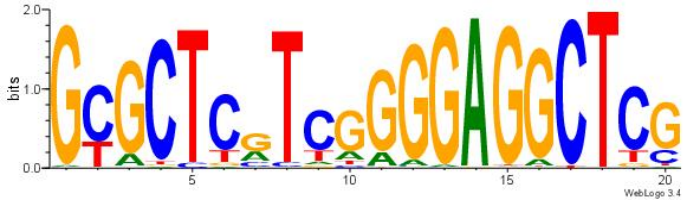

Dataset #: 1 **Motif ID: 53** **Motif name: Motif 53**

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

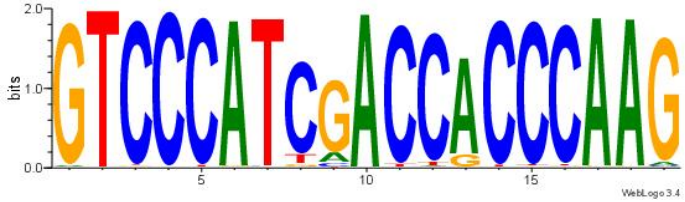

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

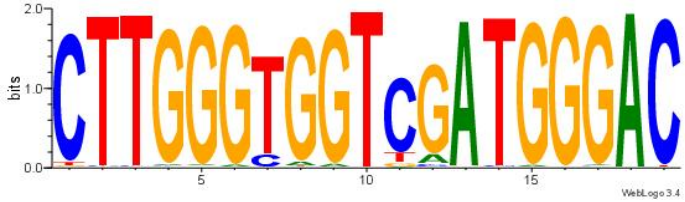

Best Matches for Motif ID 53 (Highest to Lowest)

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.113725

Alignment:

CATTCTGGGGTCTGGAGGAY
-CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

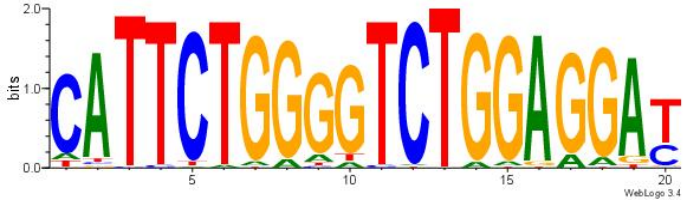

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

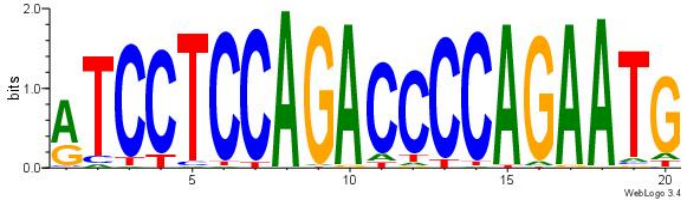

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.118023

Alignment:
ATGTGGAGGTGGAAGACAGT
CTTGGGTGGTCGATGGGAC-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

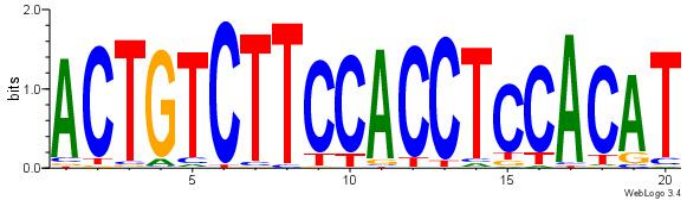

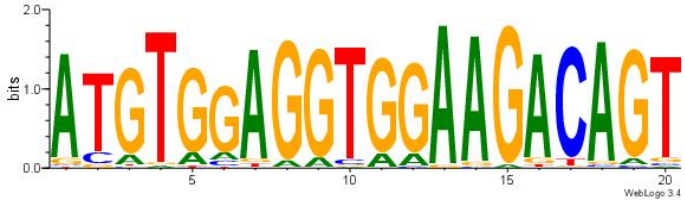

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.119118

Alignment:

```
GTAACACTCACCGCGARGGT
GTCCCATCGACCACCCAAG-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

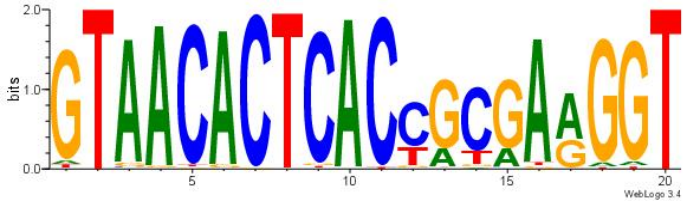

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

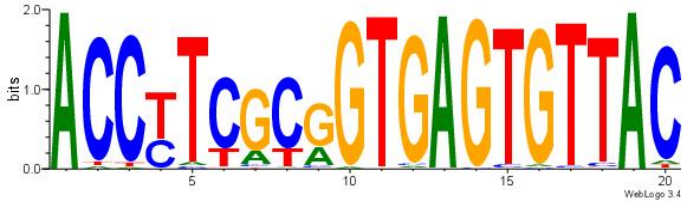

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.119924

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

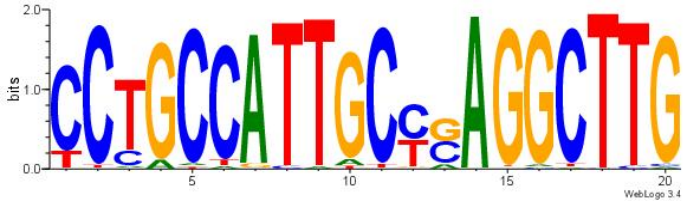

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

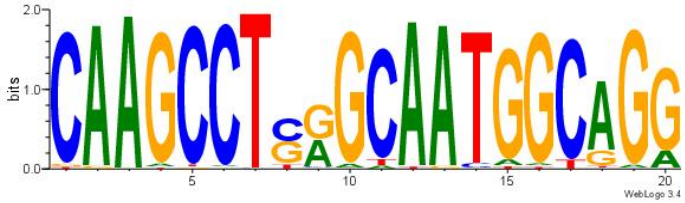

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.127526

Alignment:
GCCACCAMGCCMKGCTAAT
GTCCCATCGACCACCCAAG

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

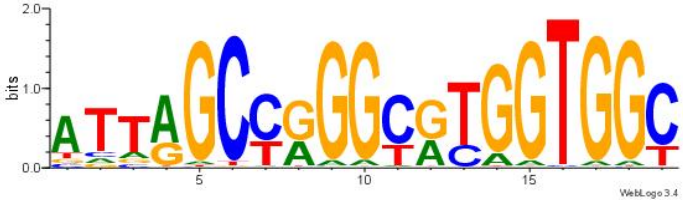

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

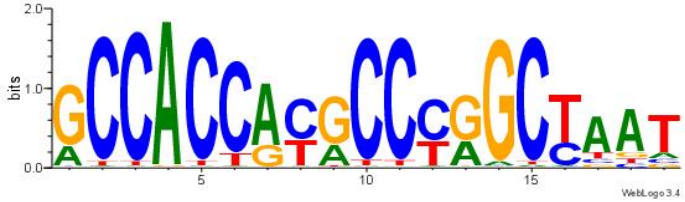

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.127807

Alignment:
GTGCCAGGCACTGTKCTARG
GTCCCATCGACCACCCAAG-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

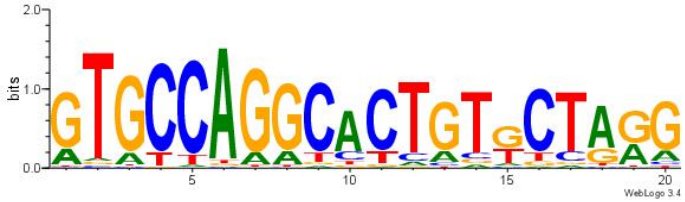

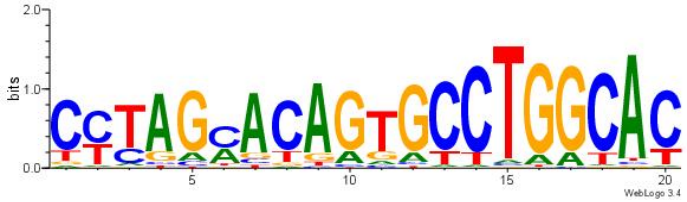

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12811

Alignment:

```
ATCTCASAAATCACCACTA
GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

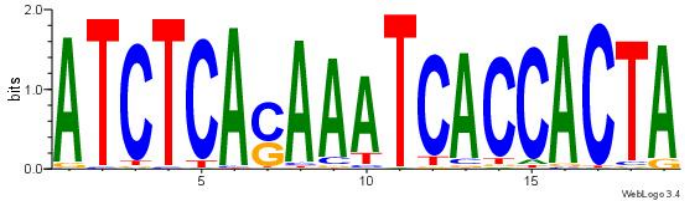

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

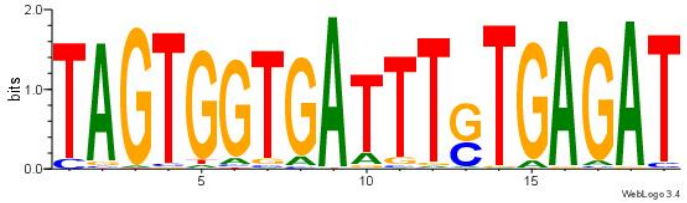

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.128675

Alignment:

```
GCCTCTCCCTCCACACCTCC
GTCCCATCGACCACCCAAG-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

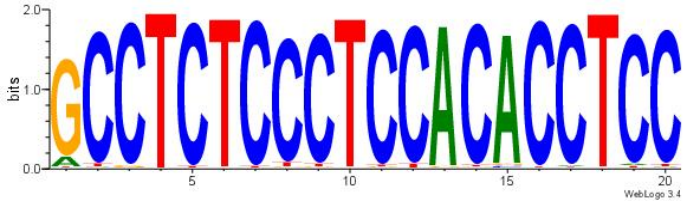

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

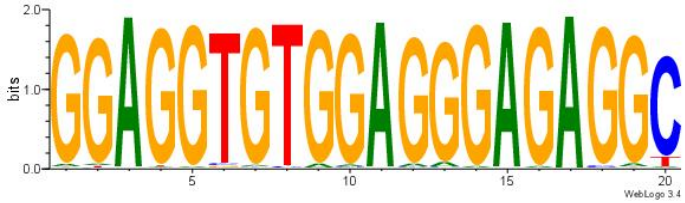

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.129793

Alignment:
GCTGTGTGACCTTGGGCAAG
CTTGGGTGGTCGATGGGAC-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

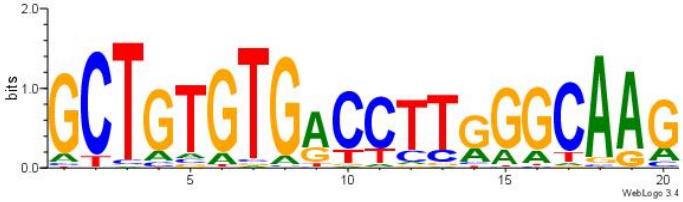

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

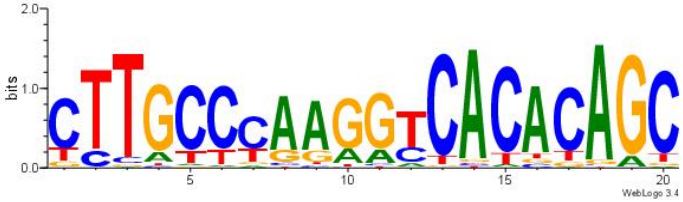

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.129809

Alignment:
TGCTGGAGGTCCACTCCAGA
GTCCCATCGACCACCCAAG-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

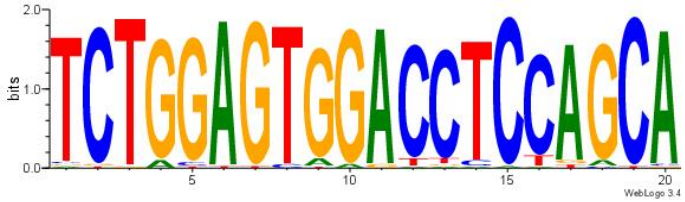

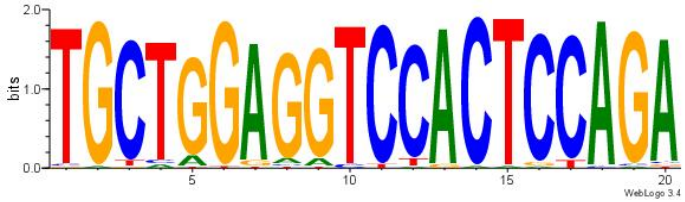

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134182

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
GTCCCATCGACCACCCAAG-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

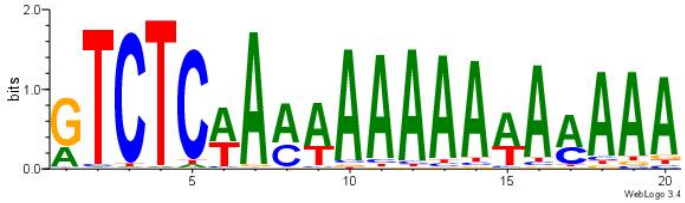

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

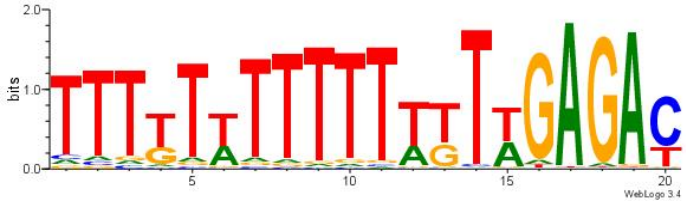

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136282

Alignment:

```
ACTCCCTAGTGAGATGAACC
-CTTGGGTGGTCGATGGGAC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

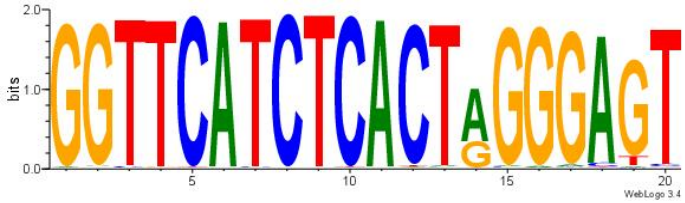

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

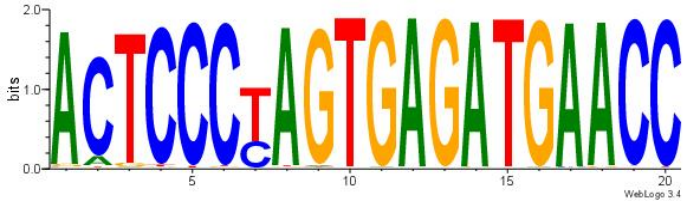

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.136865

Alignment:
MGTCTMKCTCTGTKGCCCAG
GTCCCATCGACCACCCAAG-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

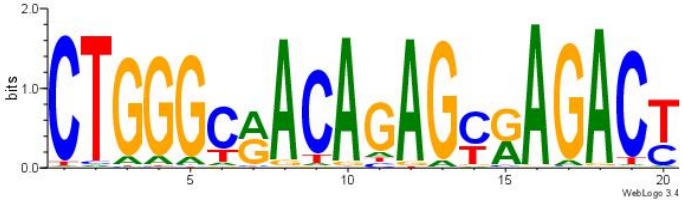

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

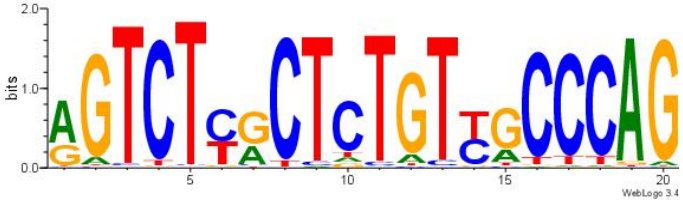

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.137252

Alignment:
CAGCTACTCKTATACCCTTG
-GTCCCATCGACCACCCAAG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

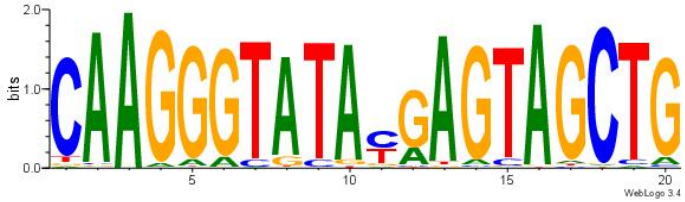

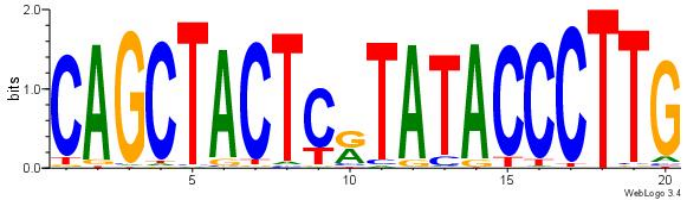

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.137655

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
CTTGGGTGGTCGATGGGAC-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

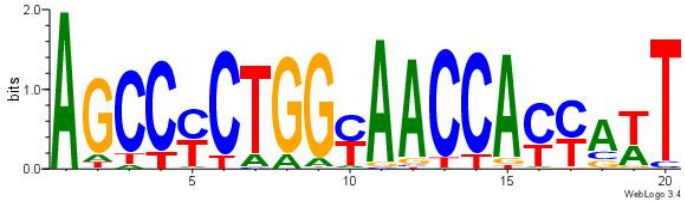

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

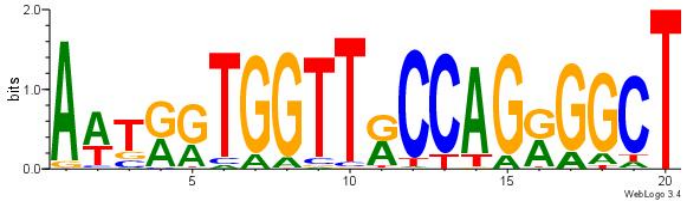

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.139157

Alignment:

```
GTKTMTATMTACCACATTTT
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

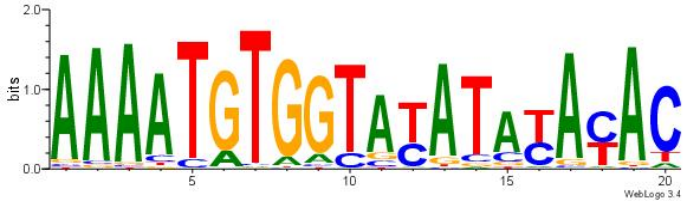

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

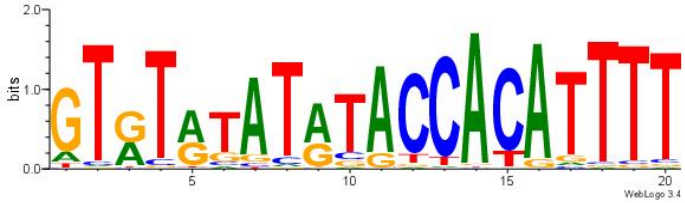

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.139174

Alignment:
GGTGGAGCTGCCTGCCAGTC
-GTCCCATCGACCACCCAAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

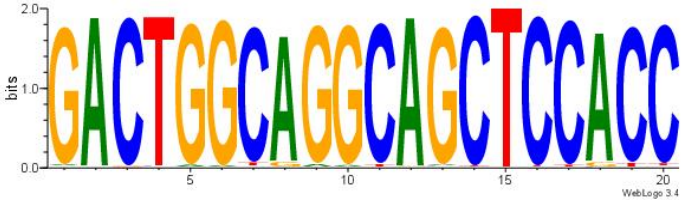

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

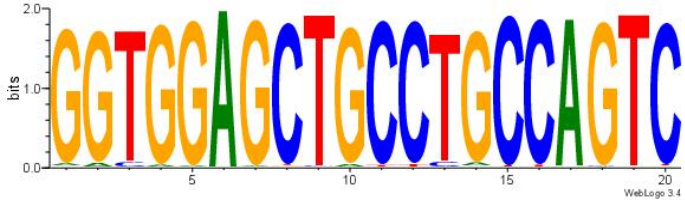

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.139417

Alignment:
CTATTGTGAATARTGCTGC
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

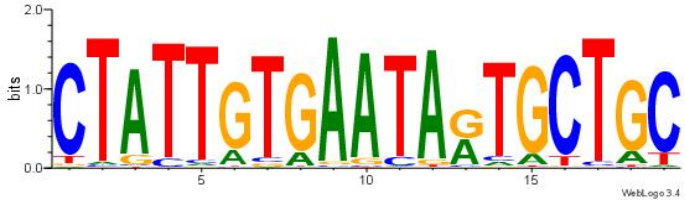

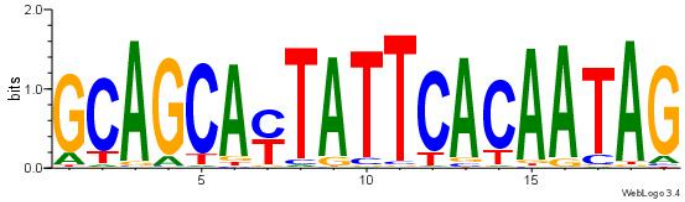

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13964

Alignment:
GGTGGGGGGGTCAGCCCCC
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

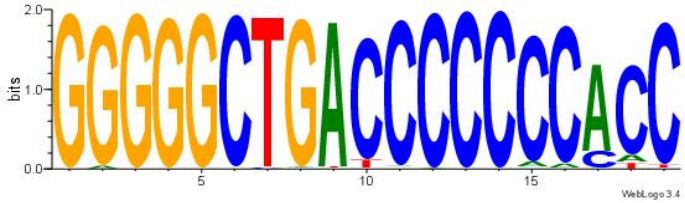

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

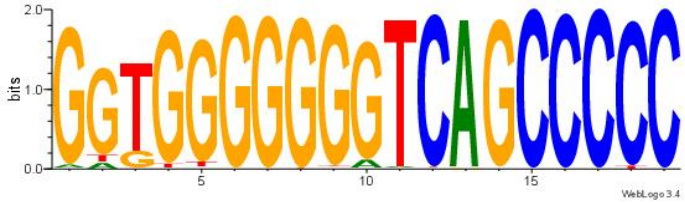

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139835

Alignment:

```
CACCAGACTCAGGAGCCCAG
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

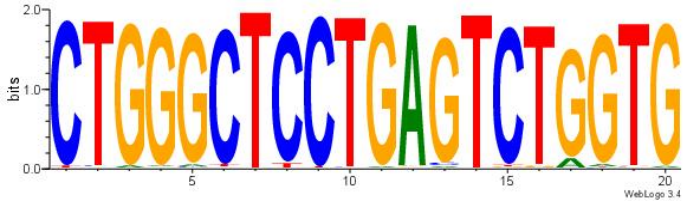

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

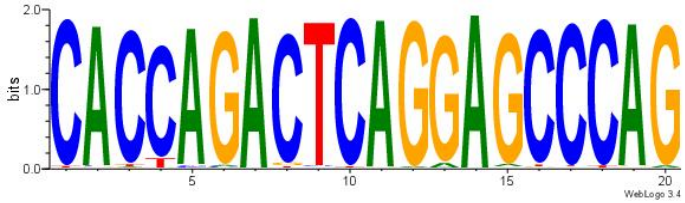

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.140031

Alignment:
ACATCCCAGACGATGGGCG
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

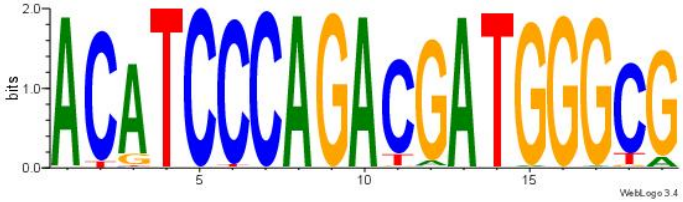

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

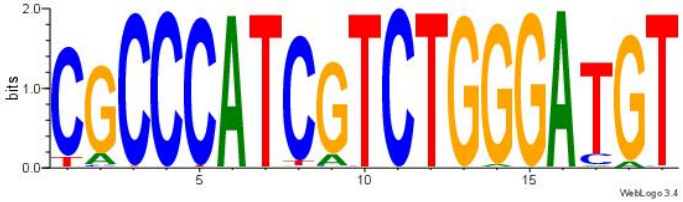

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.140506

Alignment:
CTCATTTAATCCTCACAAC
GTCCCATCGACCACCCAAG

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

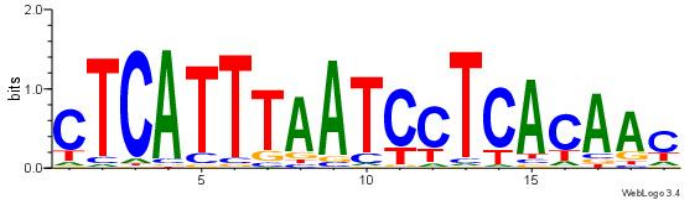

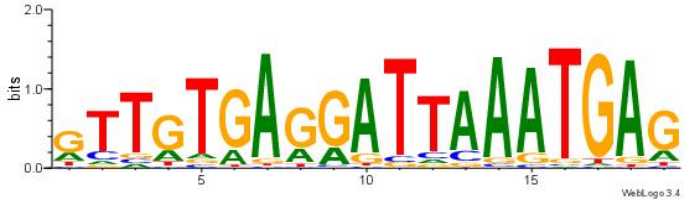

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.140942

Alignment:

```
GAAAGGGAACTCCCTGACCC
CTTGGGTGGTCGATGGGAC-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

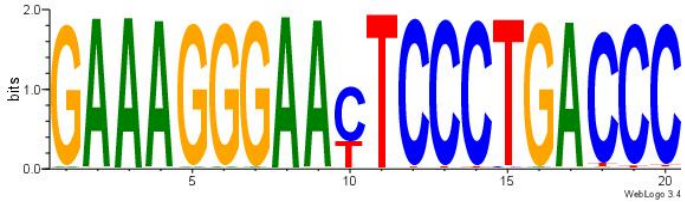

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

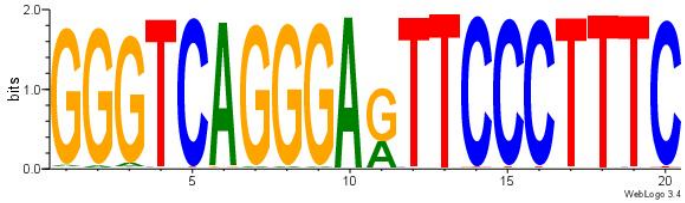

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.142015

Alignment:

```
VMATTTAKTGAGCACCTACT
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

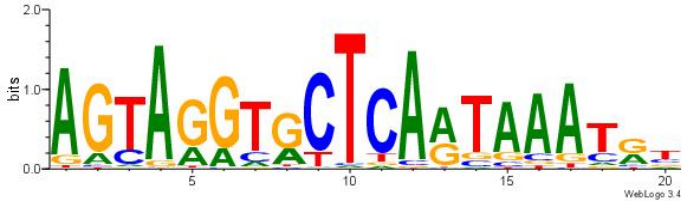

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

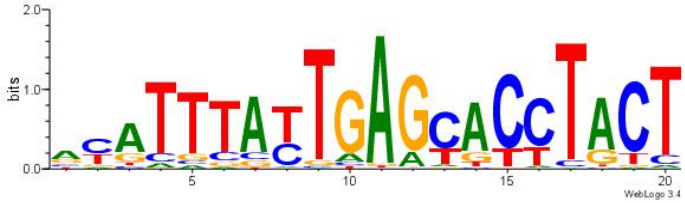

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.142093

Alignment:
TCCCTCCCGGACGGGGYGGC
-CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

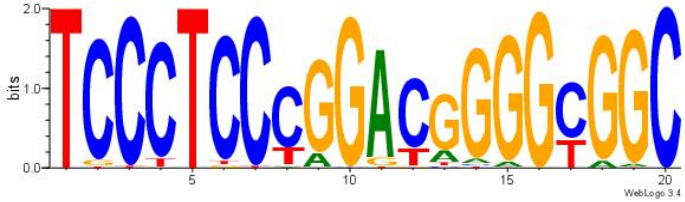

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

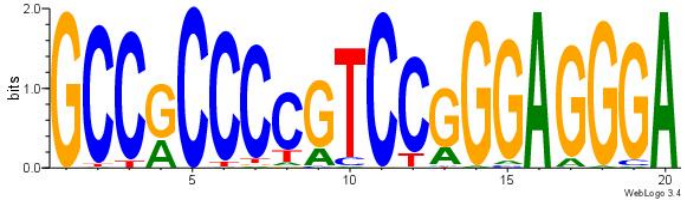

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.142235

Alignment:
GCCTCCTTGAGCTGTGGTGG
-CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

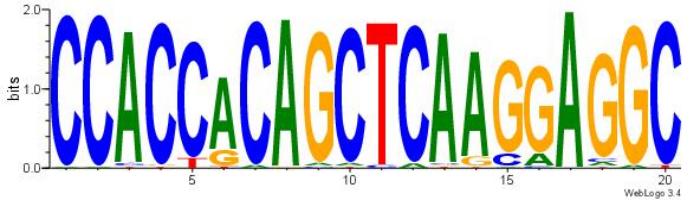

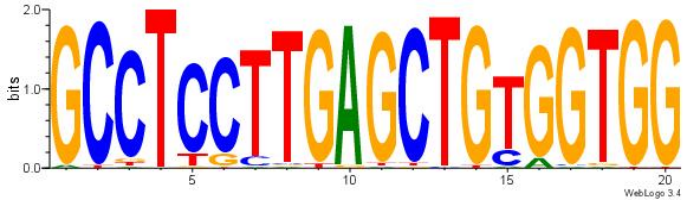

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142304

Alignment:

```
TTGGTAGGATCCGTGATGCC
CTTGGGTGGTCGATGGGAC-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

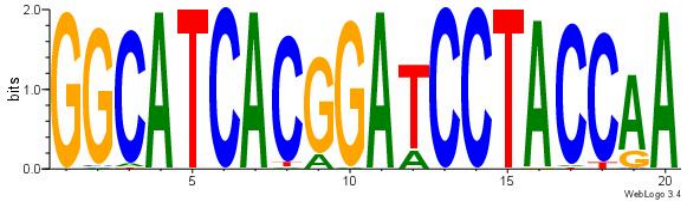

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

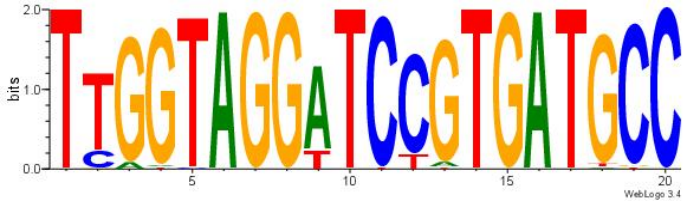

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142913

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GTCCCATCGACCACCCAAG-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

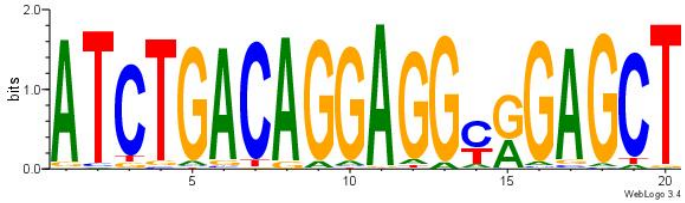

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

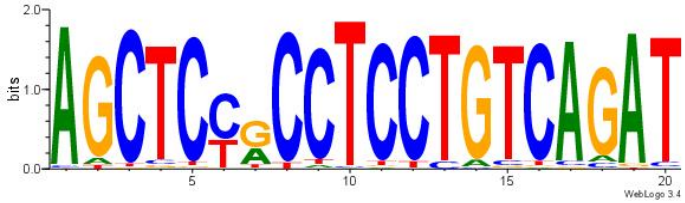

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.14292

Alignment:
ACAGGCTGTCCCAGGATTC
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

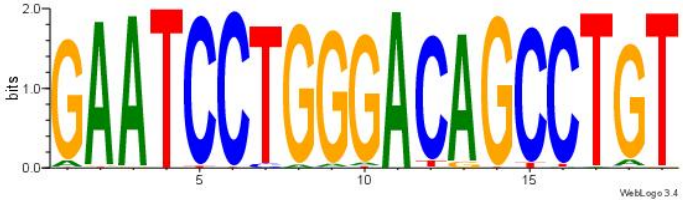

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

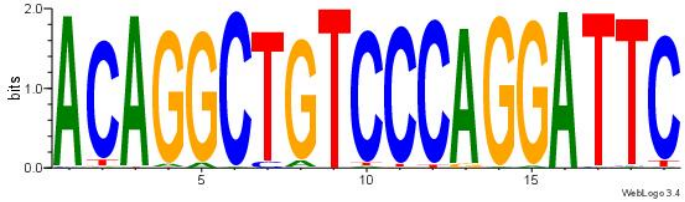

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.144834

Alignment:
AGACAGTGGGYGCAGGHCA
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

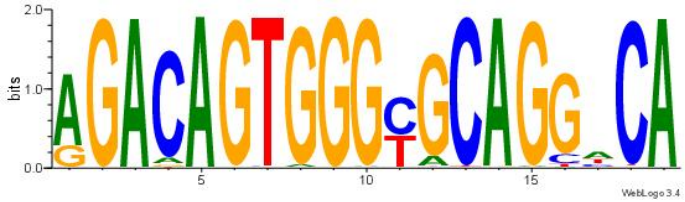

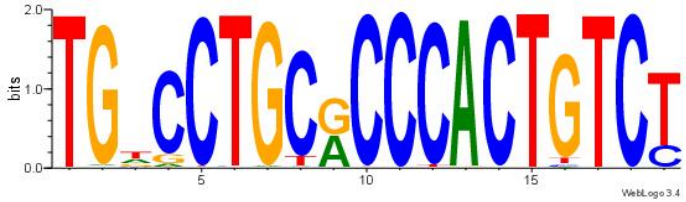

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145564

Alignment:

```
GGGATTGTAAATACACCAAT
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

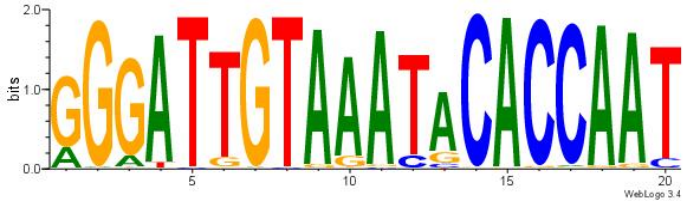

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.145698

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CTTGGGTGGTCGATGGGAC-
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

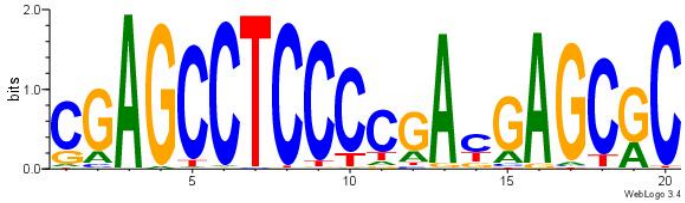

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

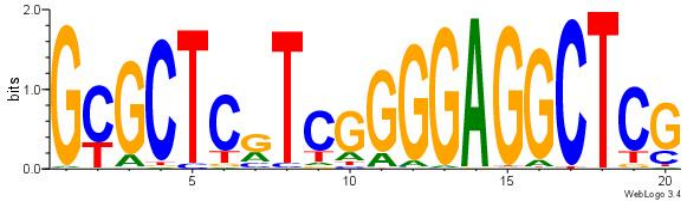

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.146266

Alignment:
KKCACCTTGATCTTGGACTT
GTCCCATCGACCACCCAAG-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

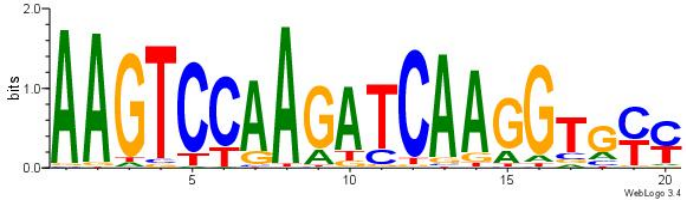

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

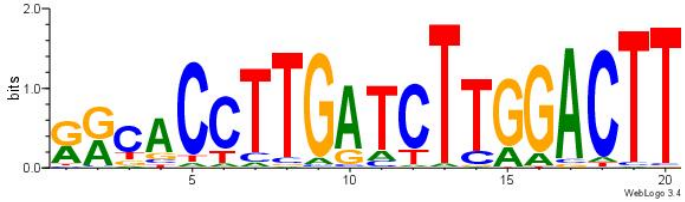

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.14683

Alignment:
CAGGTGGTKTTTGGTTACAT
-CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

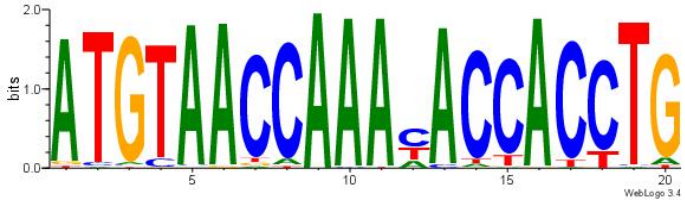

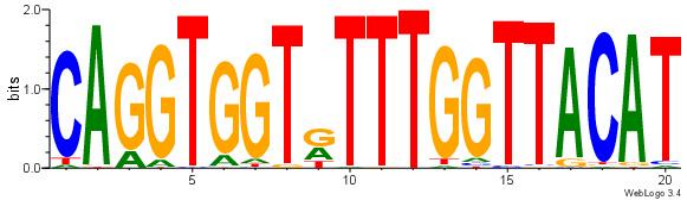

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.148921

Alignment:

```
ATACAATGGGGGTACAGRC
CTTGGGTGGTCGATGGGAC
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

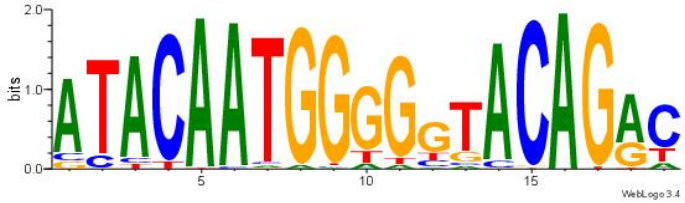

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

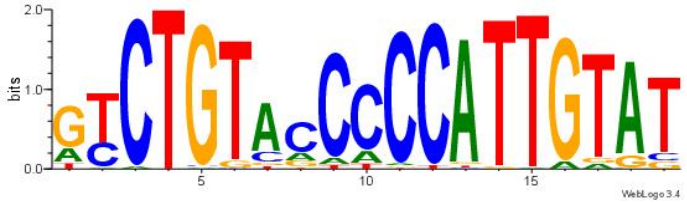

Dataset #:	1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.149677

Alignment:

```
CTTTCTGGGCTGGCCAAGG
GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

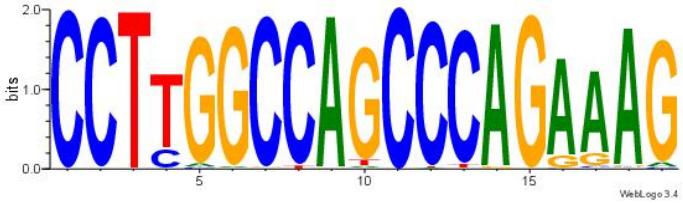

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

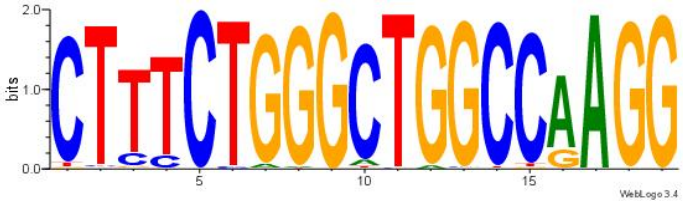

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.15017

Alignment:
GAAGGCAGCTAAGGCCCGGY
-GTCCCATCGACCACCCAAG

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

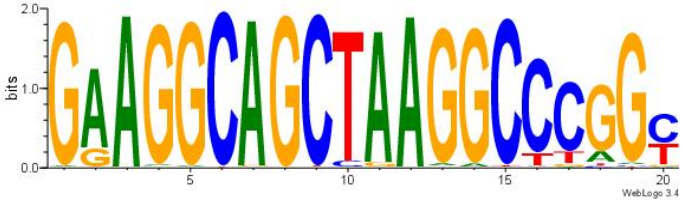

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

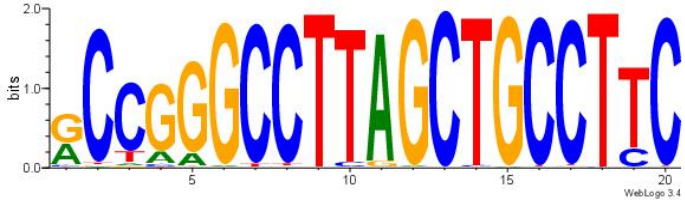

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.150751

Alignment:
CCTAGATTTCAGARGATGT
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

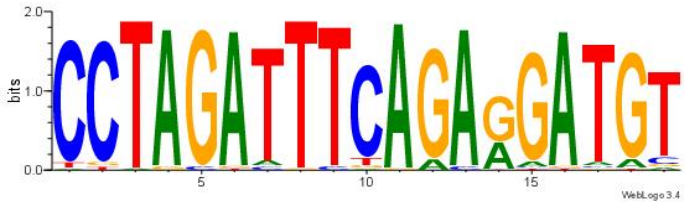

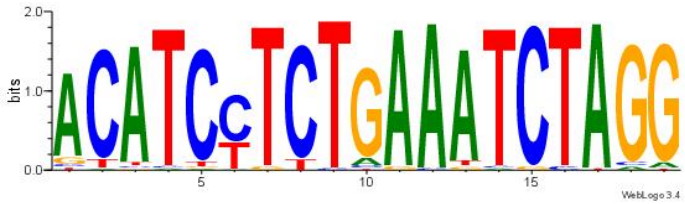

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.150823

Alignment:

```
AGTTCCGGGTGGGCGTGGG
CTTGGGTGGTCGATGGGAC
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

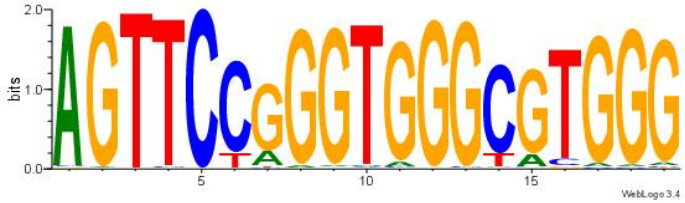

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

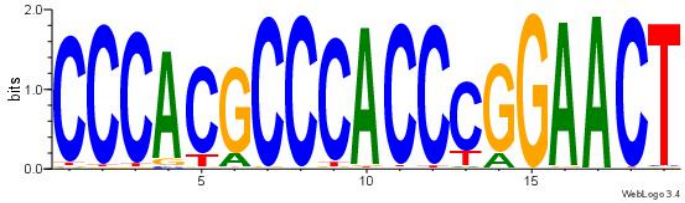

Dataset #:	1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.151124

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-CTTGGGTGGTCGATGGGAC
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

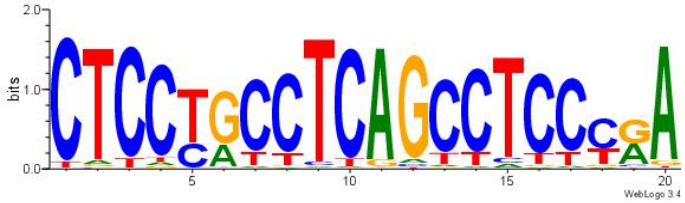

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

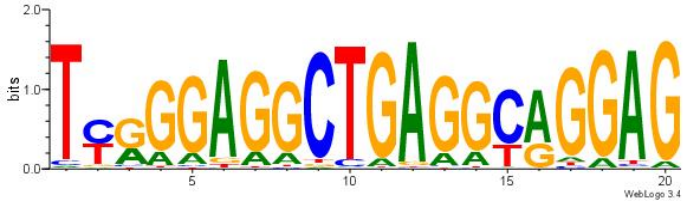

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.151344

Alignment:
ARCTCCTGKSCTCAAGKGAT
-CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

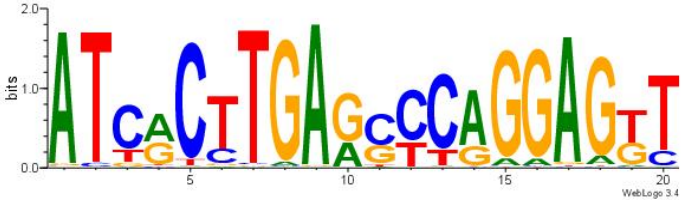

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

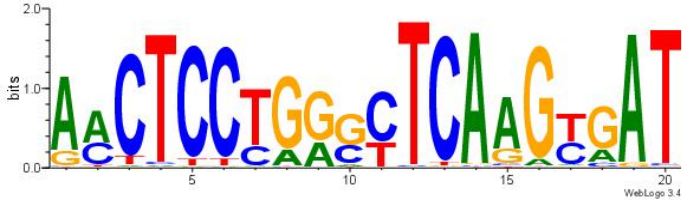

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.15227

Alignment:
TCKMGCCACTGCACTCCAGC
-GTCCCATCGACCACCCAAG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

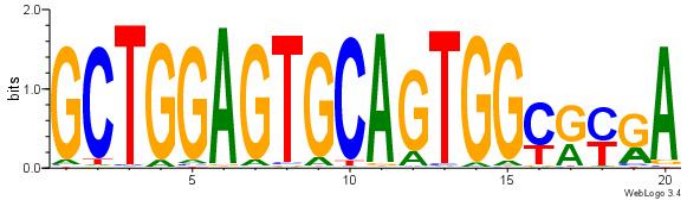

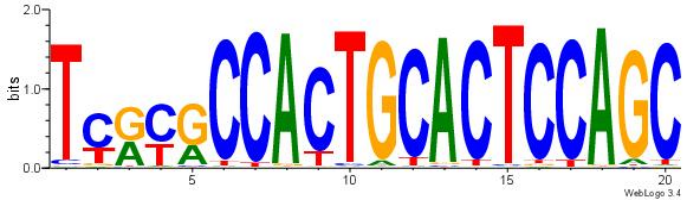

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.153083

Alignment:

```
AGCTCCCAGCGTGAGCGACG
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

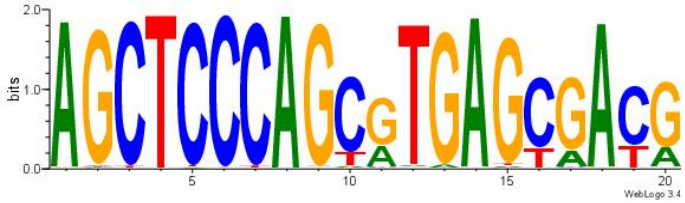

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

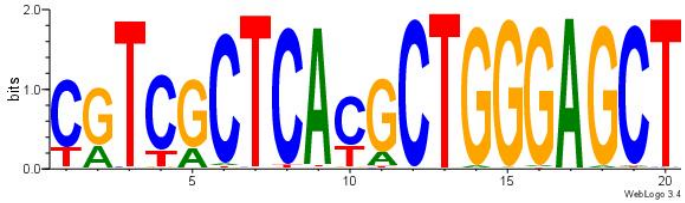

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.153216

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GTCCCATCGACCACCCAAG-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

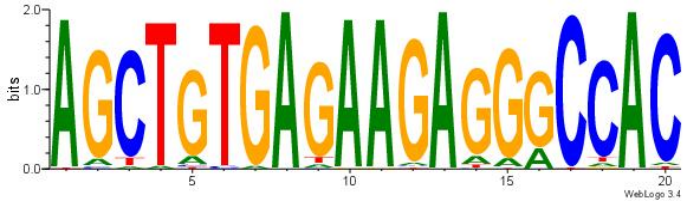

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

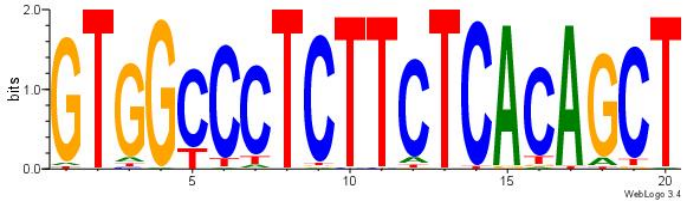

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.153584

Alignment:
AATCAACCCTGGYRATCAAT
-GTCCCATCGACCACCCAAG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

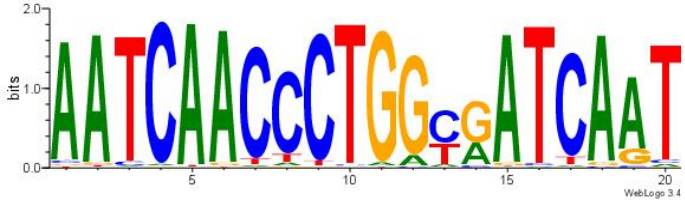

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

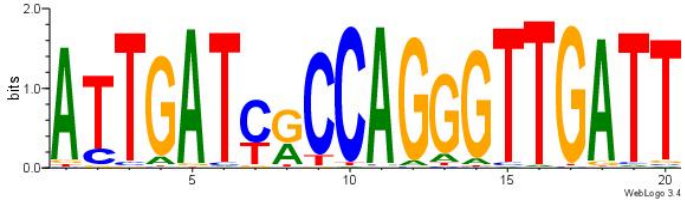

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.1536

Alignment:
GGCACTGCTGGGGGACCCAG
-GTCCCATCGACCACCCAAG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

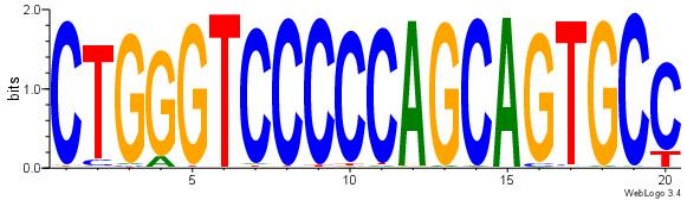

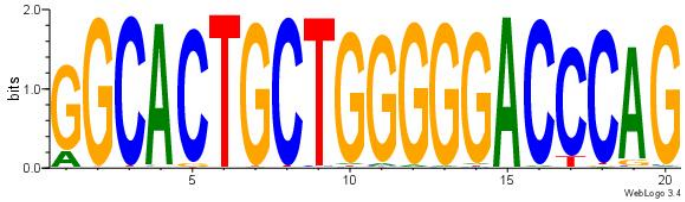

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.153892

Alignment:

```
CTGGCCCTCAATGGTTAAAC
-GTCCCATCGACCACCCAAG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

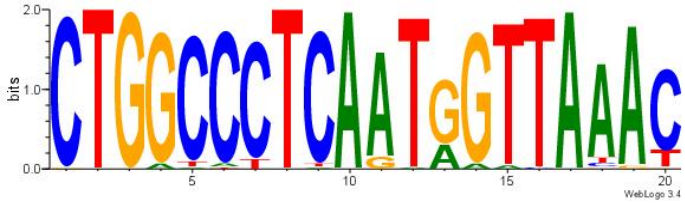

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

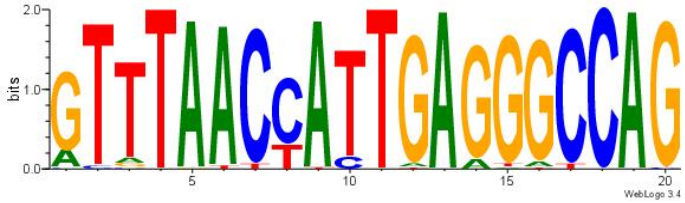

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.154042

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
CTTGGGTGGTCGATGGGAC-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

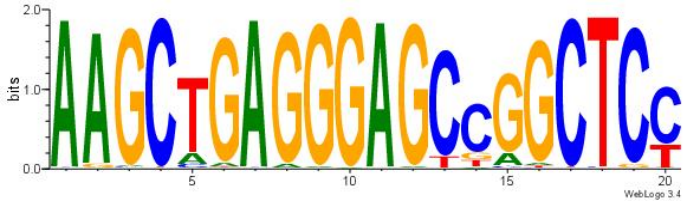

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

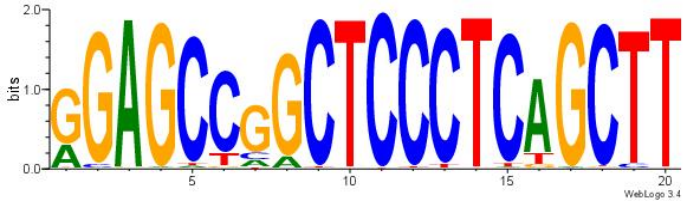

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.154892

Alignment:
TGTGTGTGTGTKTGTGTGT
CTTGGGTGGTCGATGGGAC

Original motif Consensus sequence: ACACACAYACACACACACA

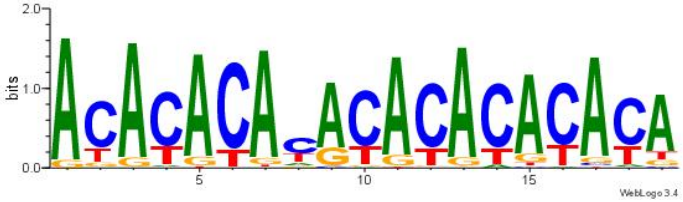

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

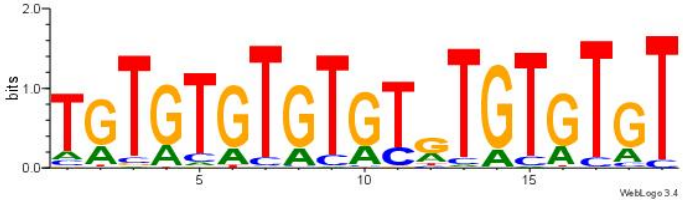

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.155336

Alignment:
ACCTGGAAAATCGGGTCACT
CTTGGGTGGTCGATGGGAC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

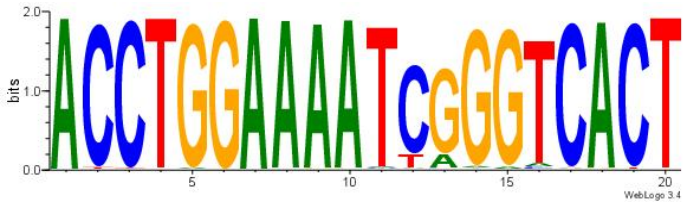

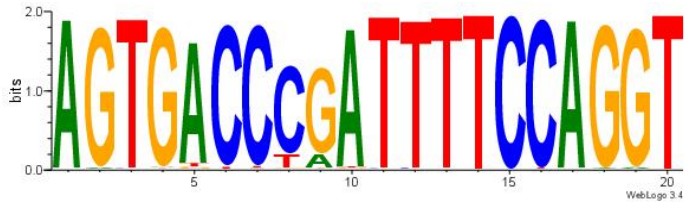

Dataset #: 1 **Motif ID: 54** **Motif name: Motif 54**

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

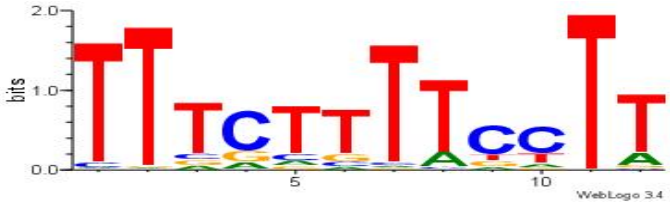

Best Matches for Motif ID 54 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0346455

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
--------AAGGAAAAGAAA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

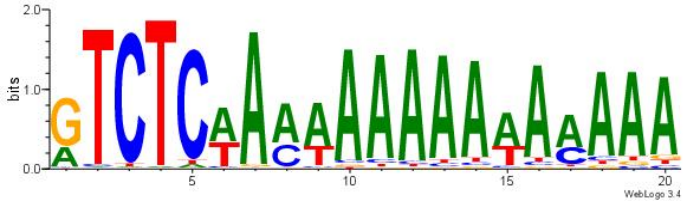

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

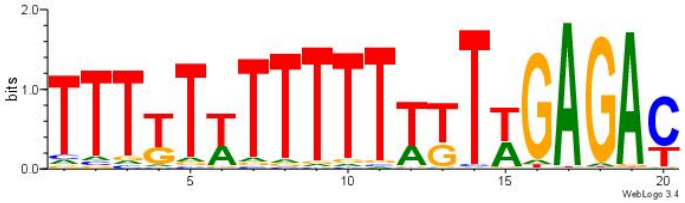

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0458962

Alignment:

```
CAGTCTGTGTCTTTTAATT
-------TTTCTTTTCCTT
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

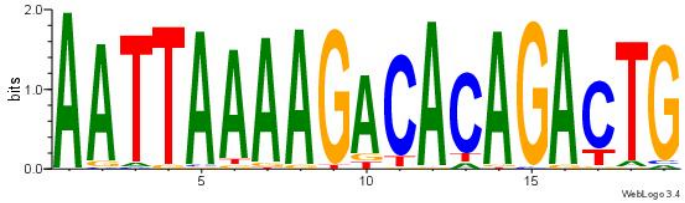

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

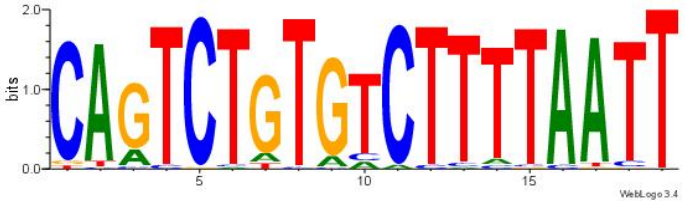

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0516933

Alignment:

```
CTCAGGAATGGAAAACC
--AAGGAAAAGAAA---
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

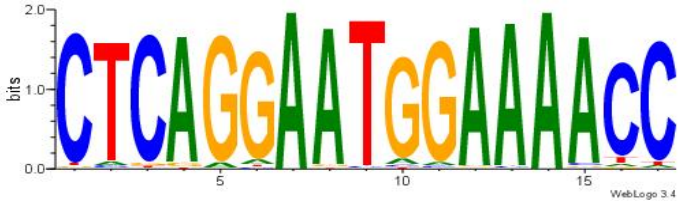

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

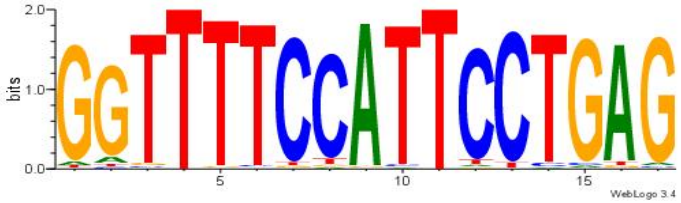

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 12
Similarity score: 0.052923

Alignment:
TTTCTTTGACTRG
TTTCTTTTCCTT-

Original motif Consensus sequence: CKAGTCAAAGAAA

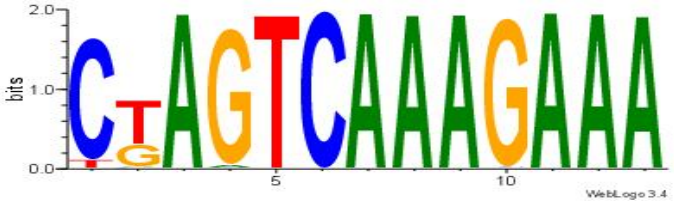

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

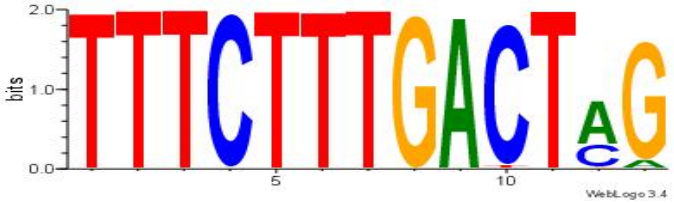

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0590252

Alignment:
AATGAKATCATGTCYTTTGC
-----TTTCTTTTCCTT---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

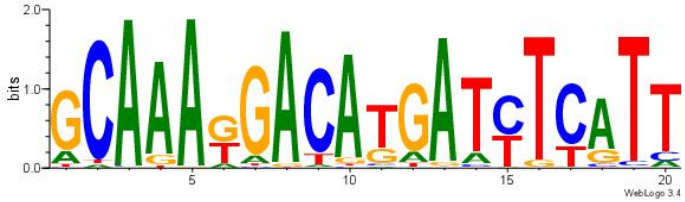

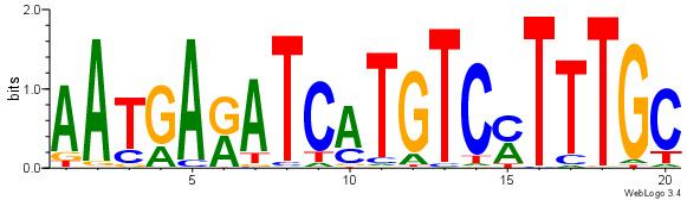

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0632058

Alignment:

```
ATCATTCTTATGCCTTTG
----TTTCTTTTCCTT--
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

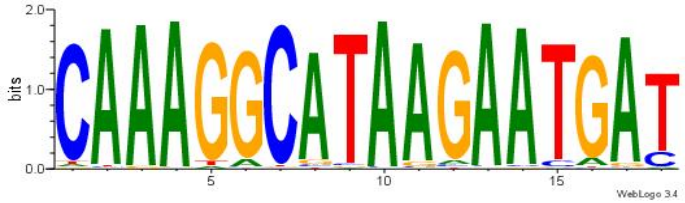

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

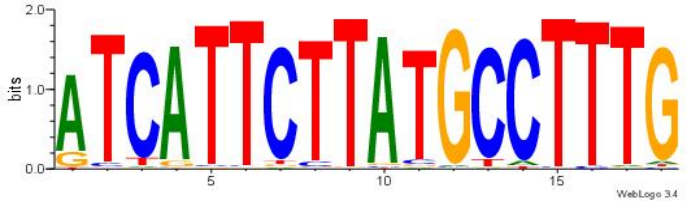

Dataset #:	1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0638645

Alignment:

```
TGAGKCAATTAAACCTCTT
-AAGGAAAAGAAA------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

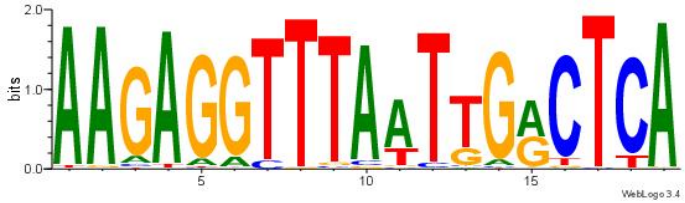

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

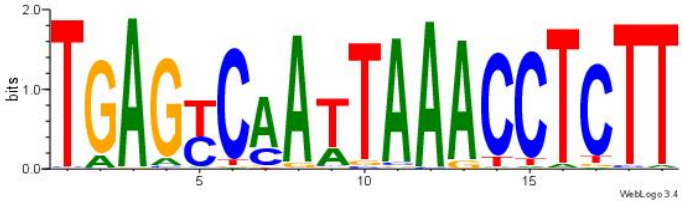

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.0653491

Alignment:
GAGAGAGAGAGAGAGAGAGA
------AAGGAAAAGAAA--

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

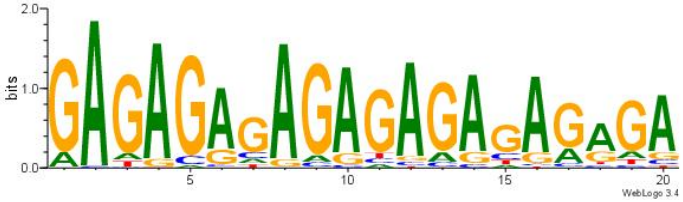

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

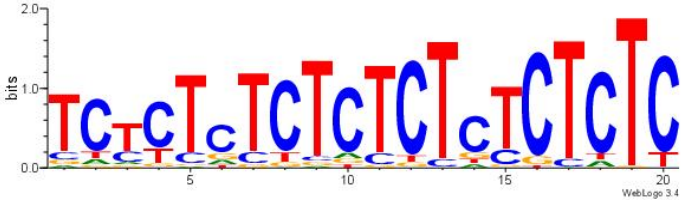

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.066443

Alignment:
TAAAAGACTACAWATTGGGT
--AAGGAAAAGAAA------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

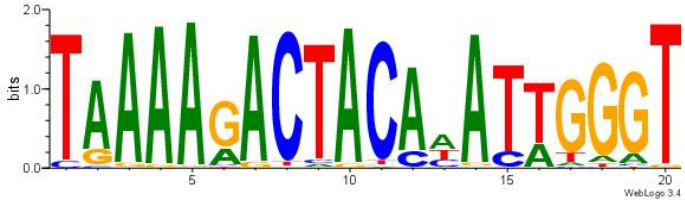

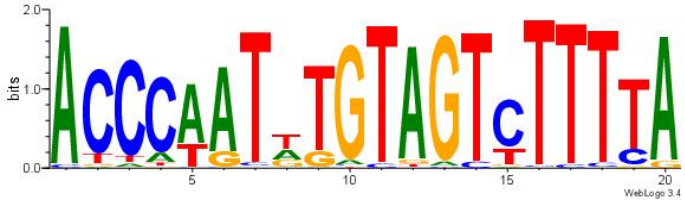

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0674271

Alignment:

```
GCCAGTCACAAAARGACAMA
------AAGGAAAAGAAA--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

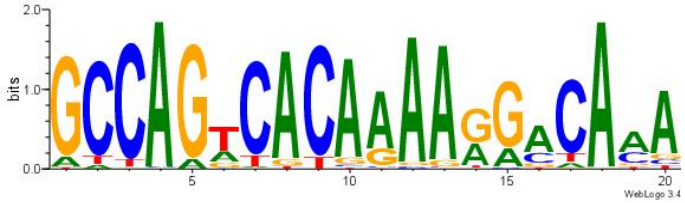

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

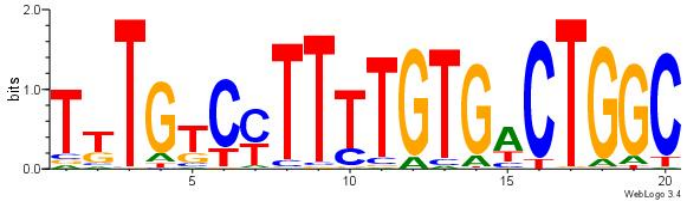

Dataset #:	1

Motif ID:	237
Motif name:	Motif 237
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0683956

Alignment:

```
TAGCCAAGGRAA
AAGGAAAAGAAA
```

Original motif Consensus sequence: TAGCCAAGGRAA

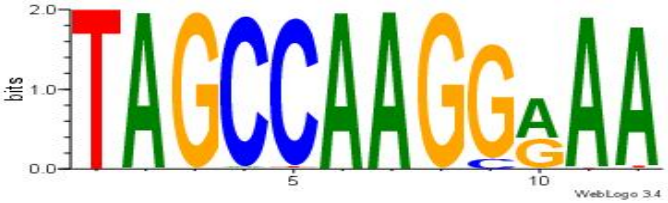

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

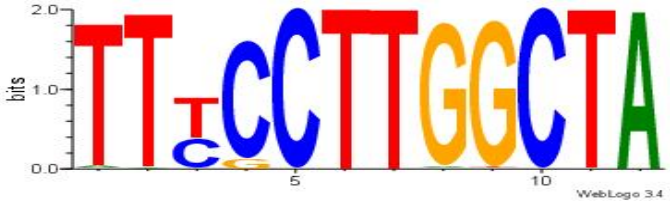

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.06888

Alignment:
GTGTCKGGAGTTTGTTCCTT
--------TTTCTTTTCCTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

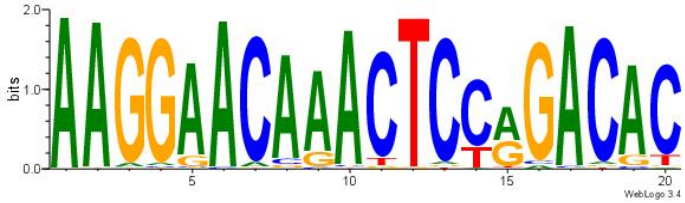

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

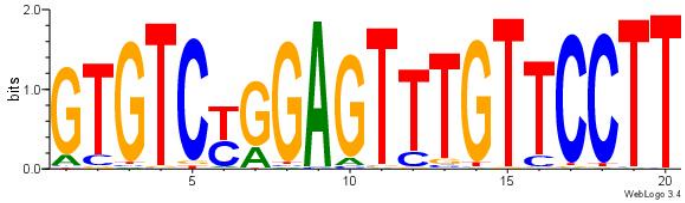

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0703656

Alignment:
TTYTTGTTGTTGTTGTT
--TTTCTTTTCCTT---

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

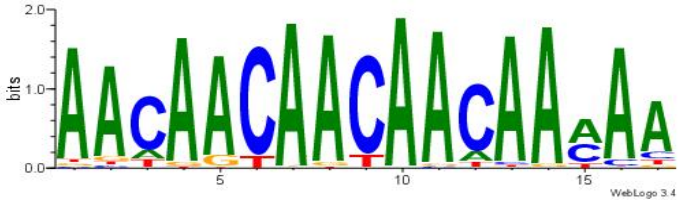

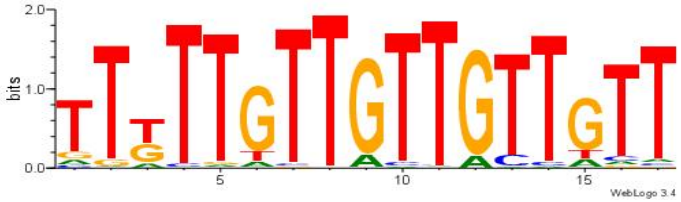

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0705893

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-------TTTCTTTTCCTT-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

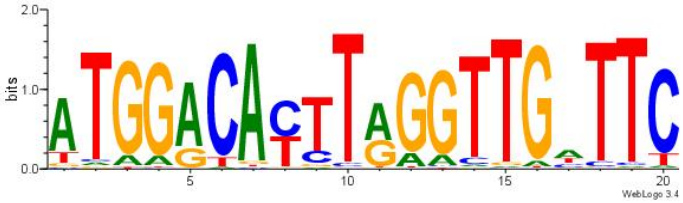

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

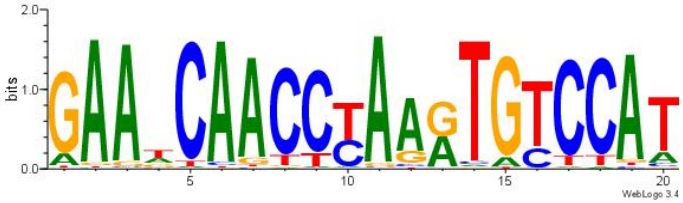

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0708402

Alignment:

```
GATACAAAATCAATGTR
-AAGGAAAAGAAA----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

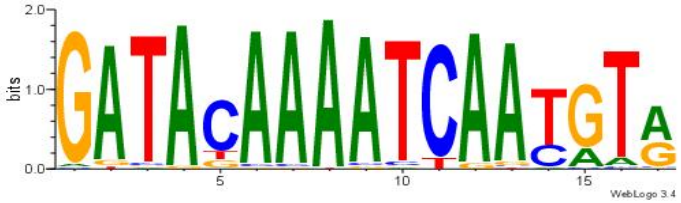

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

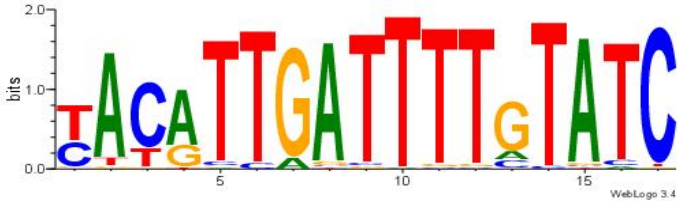

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.072752

Alignment:
CTTGCGCTTCCCRRGTGA
-----TTTCTTTTCCTT-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

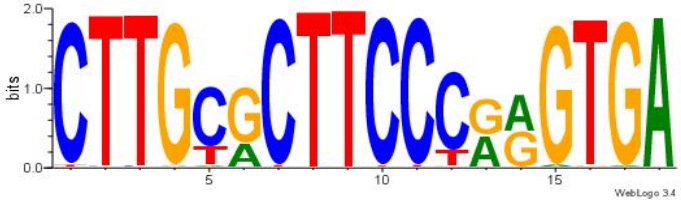

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

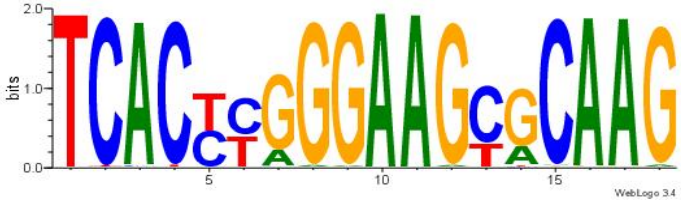

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0737441

Alignment:
TCCAAATGGGAGAAATTGGC
---AAGGAAAAGAAA-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

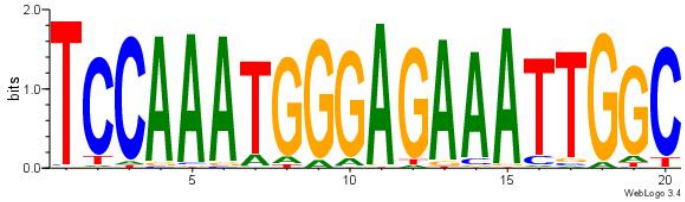

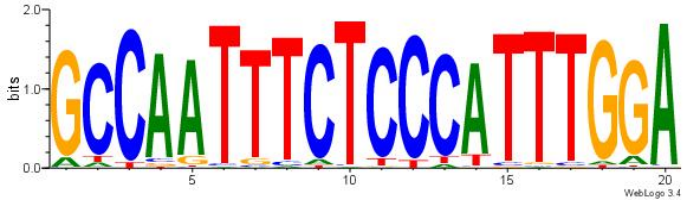

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0739118

Alignment:

```
AAATTAGGCCAATTAATAAC
----AAGGAAAAGAAA----
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

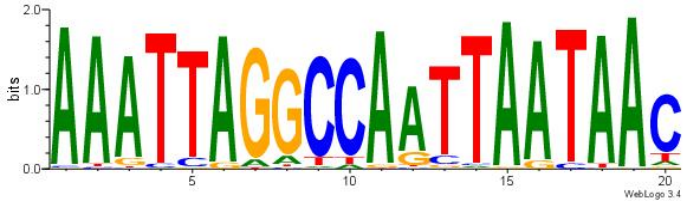

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0755648

Alignment:

```
GAGGAGGRGGAGGDGGV
---AAGGAAAAGAAA--
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

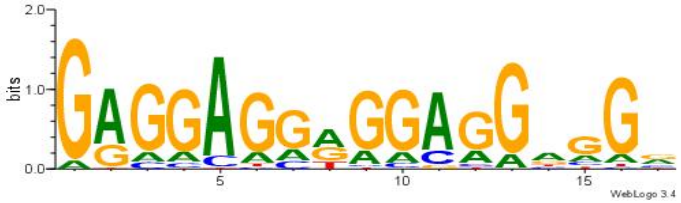

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

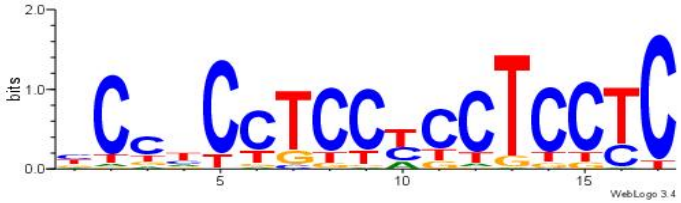

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0763319

Alignment:
GGTCAGGATCATCAATAT
---AAGGAAAAGAAA---

Original motif Consensus sequence: ATATTGATGATCCTGACC

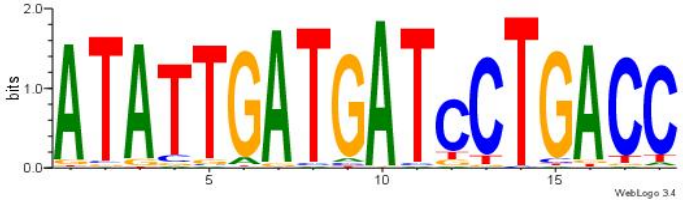

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

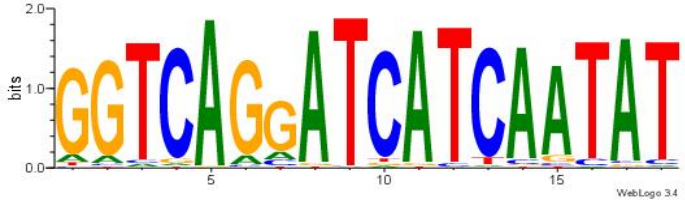

Dataset #: 1
Motif ID: 274
Motif name: Motif 274
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0777119

Alignment:
TTTCCTTGACCAG
TTTCTTTTCCTT-

Original motif Consensus sequence: CTGGTCAAGGAAA

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

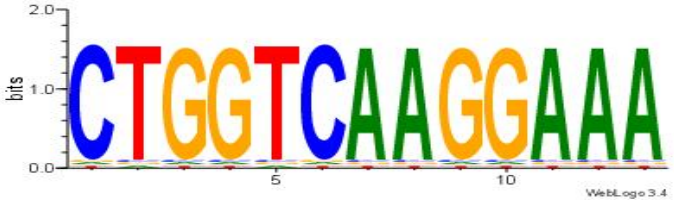

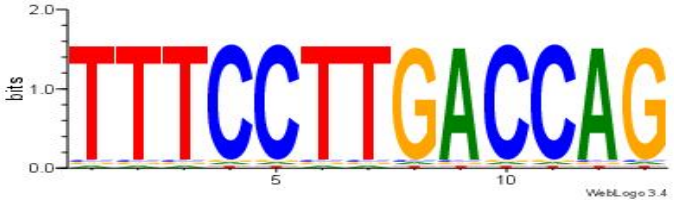

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0794336

Alignment:

```
GAAATTGACTTCCTCCT
---TTTCTTTTCCTT--
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

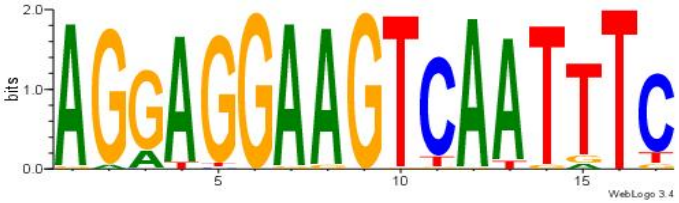

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

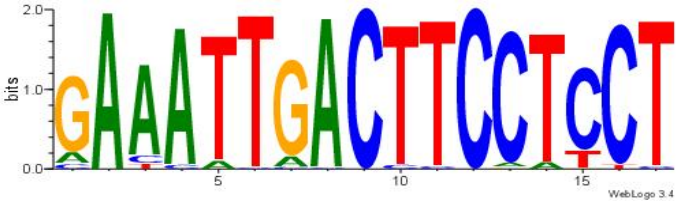

Dataset #: 1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0797186

Alignment:

```
AGAAAGGCATGTGAAAA
---AAGGAAAAGAAA--
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

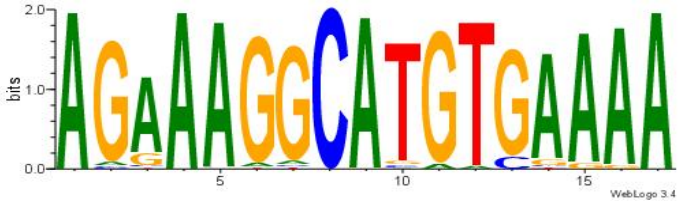

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

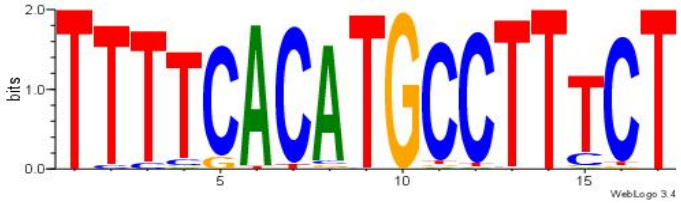

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0797785

Alignment:
ATTGGTGTATTTACAATCCC
-----TTTCTTTTCCTT---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

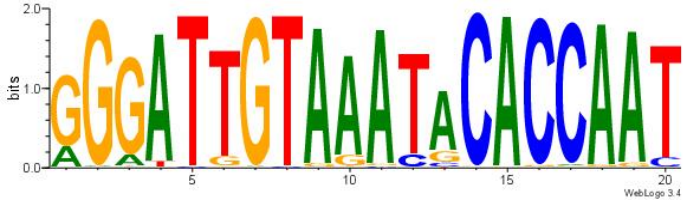

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0798774

Alignment:
ATAGGAATGCTTGTGATTTT
------TTTCTTTTCCTT--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

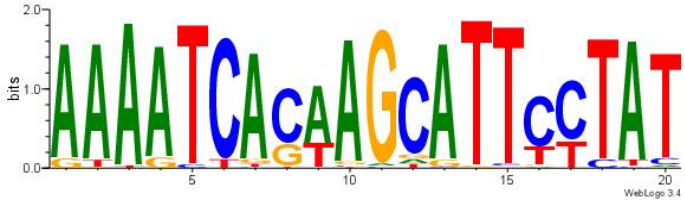

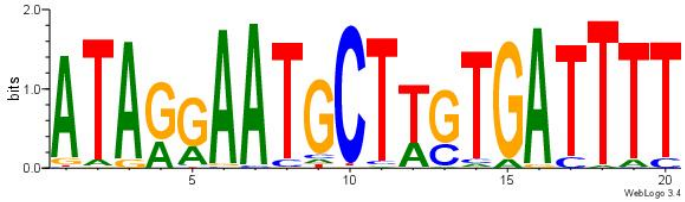

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0800997

Alignment:

```
KKCACCTTGATCTTGGACTT
--------TTTCTTTTCCTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

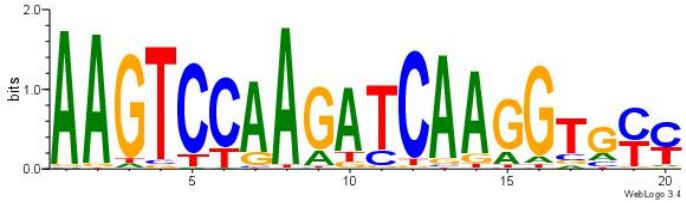

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

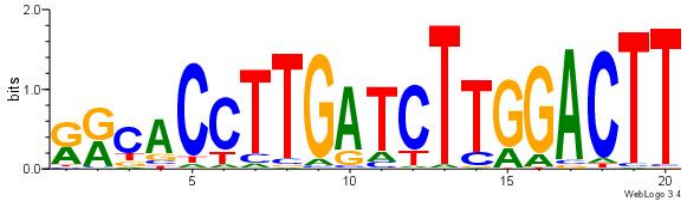

Dataset #:	1

Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0801126

Alignment:

```
TAATGGGTACAAA
-AAGGAAAAGAAA
```

Original motif Consensus sequence: TAATGGGTACAAA

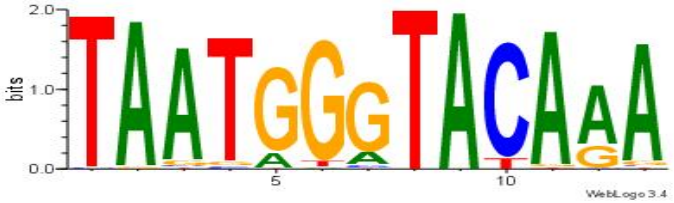

Reverse complement motif Consensus sequence: TTTGTACCCATTA

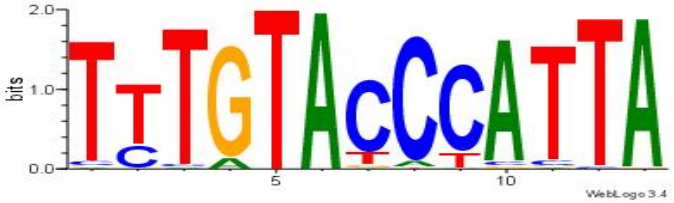

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.080142

Alignment:
TGTGTGTGTGTKTGTGTGT
------TTTCTTTTCCTT-

Original motif Consensus sequence: ACACACAYACACACACACA

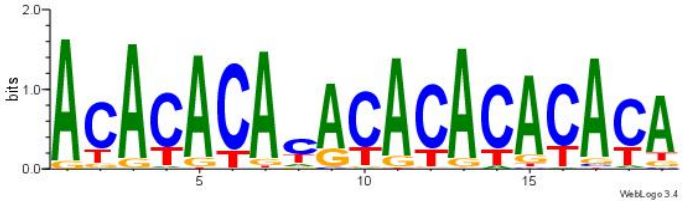

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

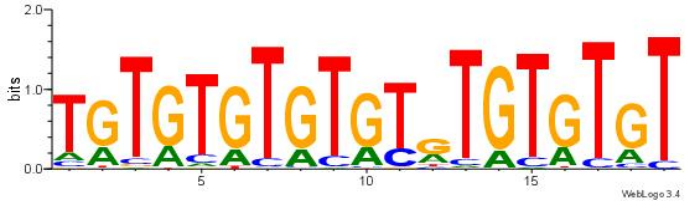

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0807552

Alignment:
CAGGTGGTKTTTGGTTACAT
----TTTCTTTTCCTT----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

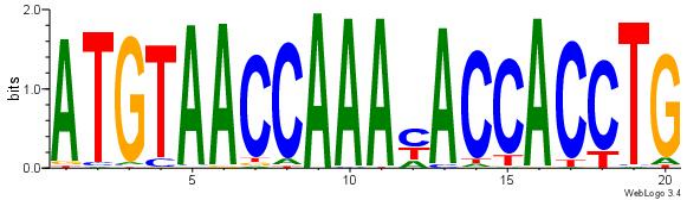

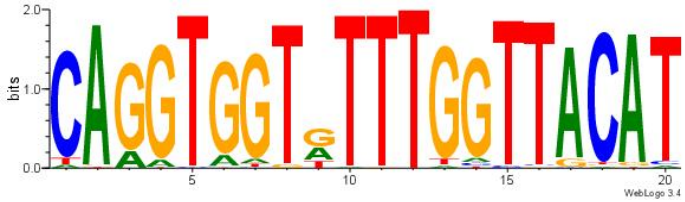

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.080799

Alignment:

```
KGAGAACAGTAGGG
AAGGAAAAGAAA--
```

Original motif Consensus sequence: CCCTACTGTTCTCY

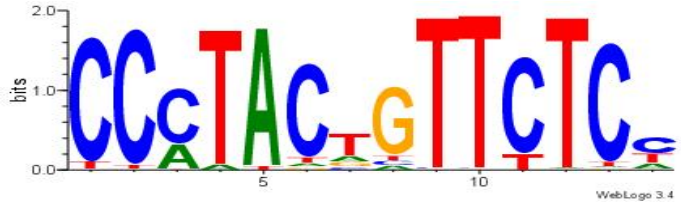

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

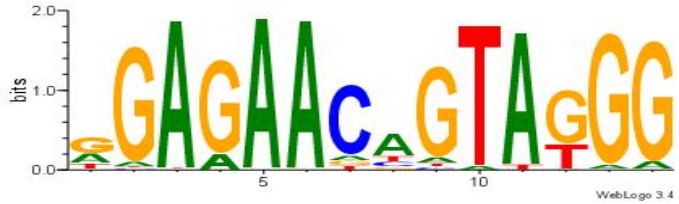

Dataset #:	1
Motif ID:	55

Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0808138

Alignment:

```
ATGGAATAYTATTCAGCCAT
AAGGAAAAGAAA--------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

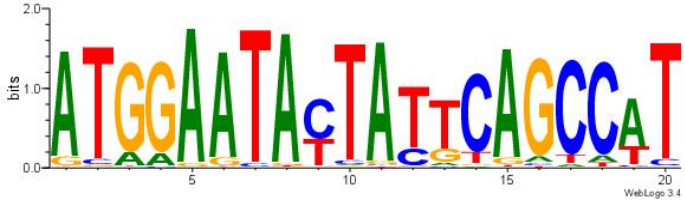

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

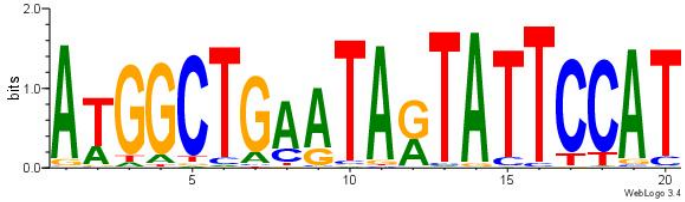

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0834796

Alignment:
GTTGTGAGGATTAAATGAG
TTTCTTTTCCTT-------

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

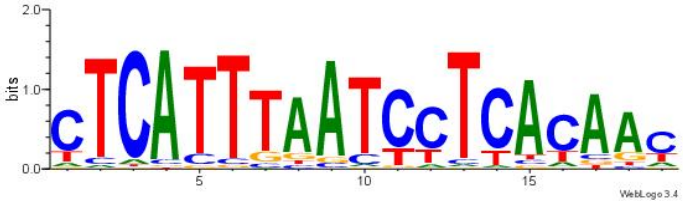

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

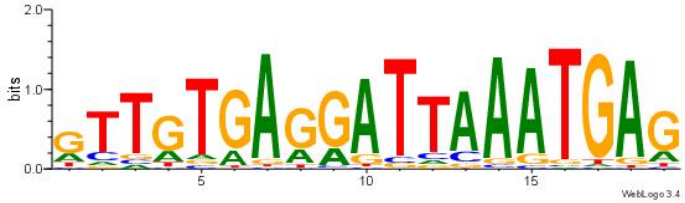

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0835801

Alignment:
GACAGGAGATTAACACTGAG
--AAGGAAAAGAAA------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

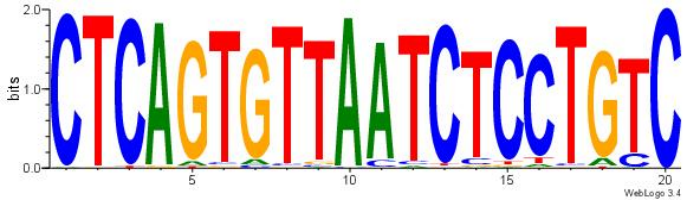

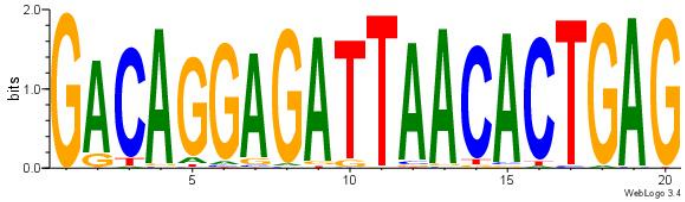

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0840188

Alignment:

```
AGGTTTGTTACATAGGTAWA
--TTTCTTTTCCTT------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

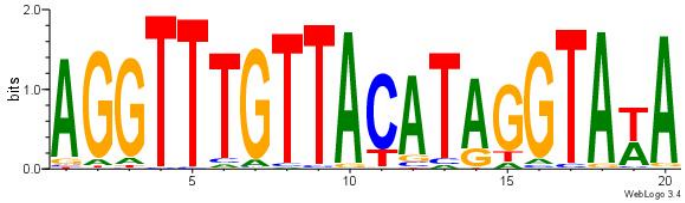

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

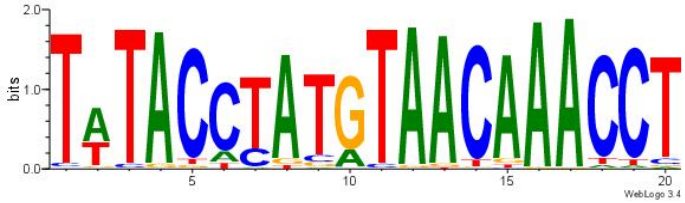

Dataset #: 1

Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0840446

Alignment:

```
TAGGGTAGTCAAR
-AAGGAAAAGAAA
```

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

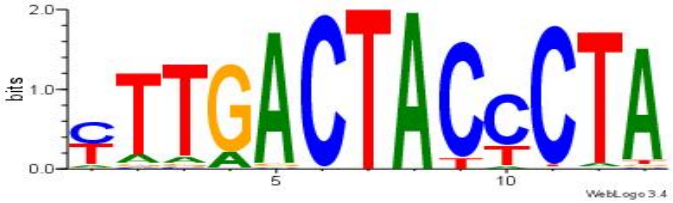

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0841593

Alignment:
CCTTTGACTCCATGTC
--TTTCTTTTCCTT--

Original motif Consensus sequence: GACATGGAGTCAAAGG

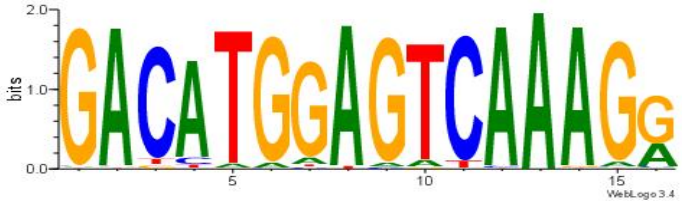

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

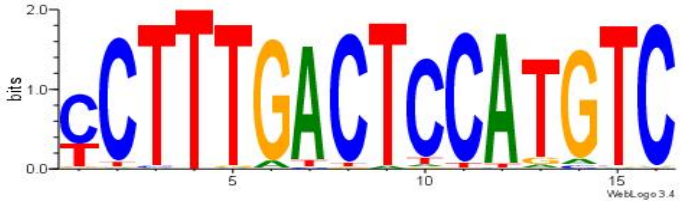

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0846139

Alignment:
AWTKKTGGTTKCCAGKGGCT
---TTTCTTTTCCTT-----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

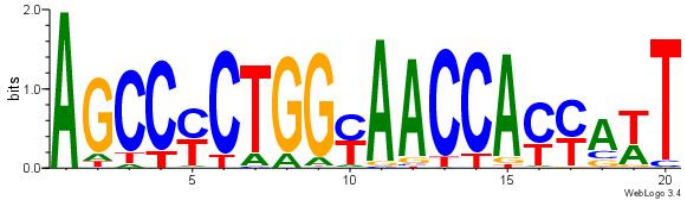

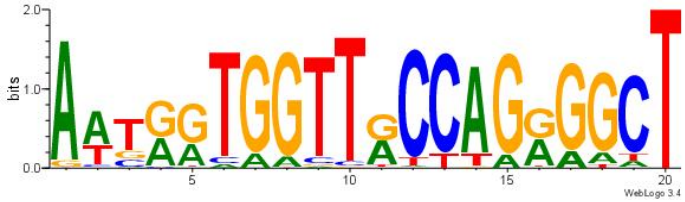

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0854333

Alignment:

```
ACACATCACAAAGCAGTTTC
AAGGAAAAGAAA--------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

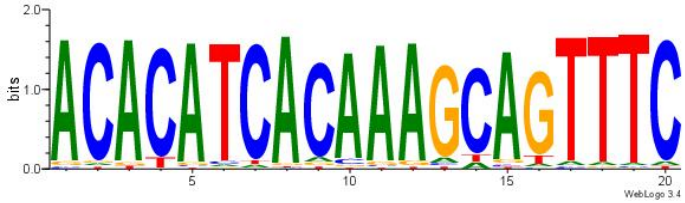

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

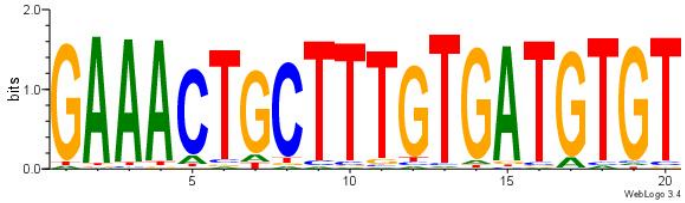

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.085512

Alignment:

```
AGTAGGTGCTCARTAAATRB
-----AAGGAAAAGAAA---
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

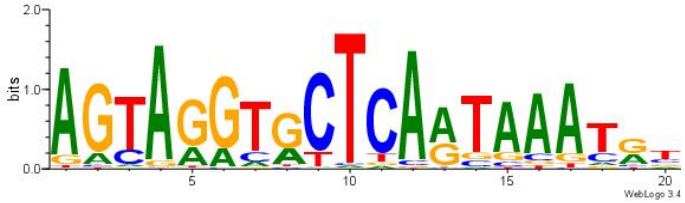

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

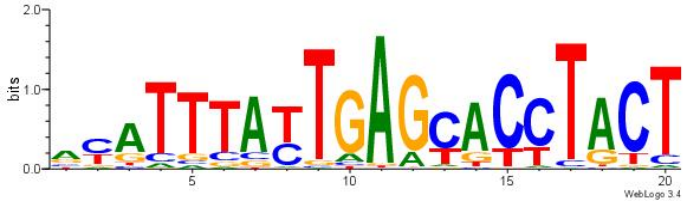

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.0855539

Alignment:
AACTGAGGCTCAGAGA
----AAGGAAAAGAAA

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

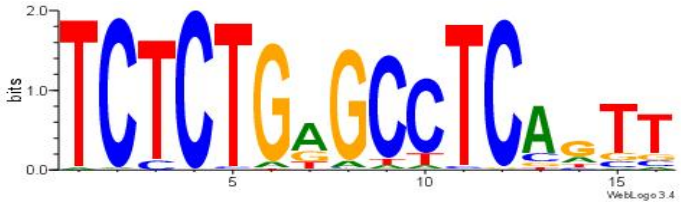

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

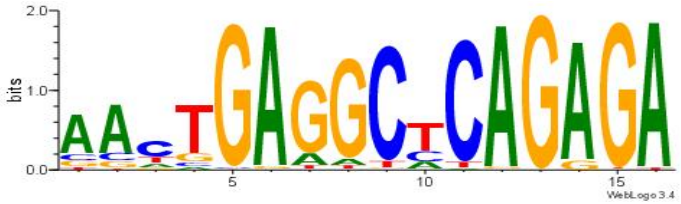

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0856422

Alignment:
CCTGCCATTGCYSAGGCTTG
-------TTTCTTTTCCTT-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

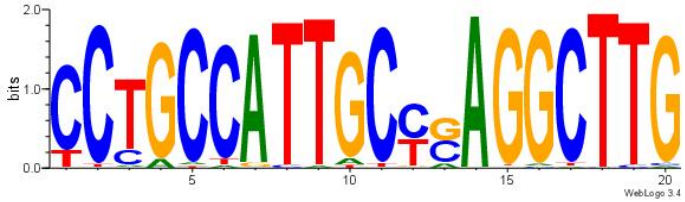

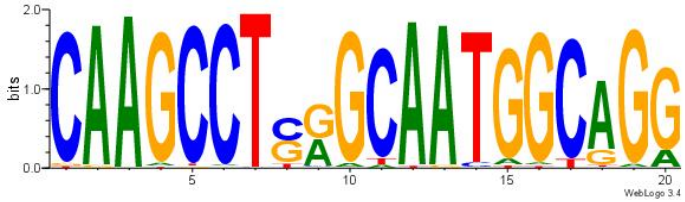

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.08626

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-AAGGAAAAGAAA-------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

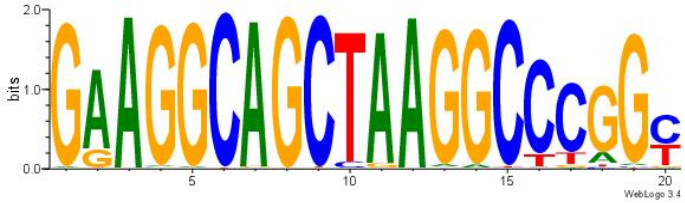

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

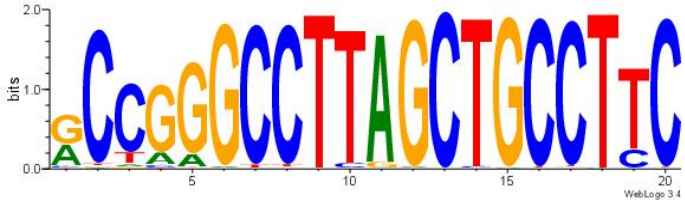

Dataset #:	1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0863268

Alignment:

```
TGTATTAGTCMMTT
--TTTCTTTTCCTT
```

Original motif Consensus sequence: AAYRGACTAATACA

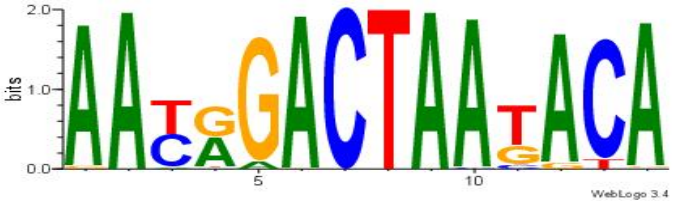

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

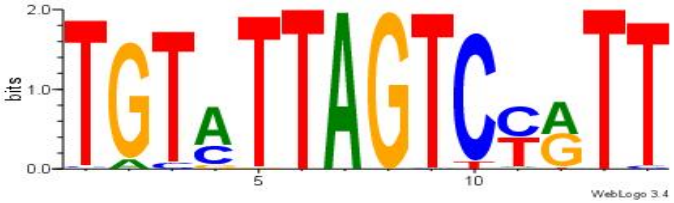

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0866789

Alignment:
ACTGTCTTCCACCTCCACAT
--TTTCTTTTCCTT------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

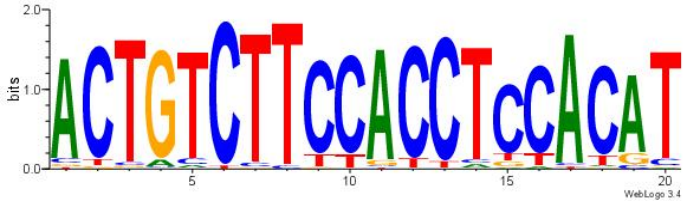

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

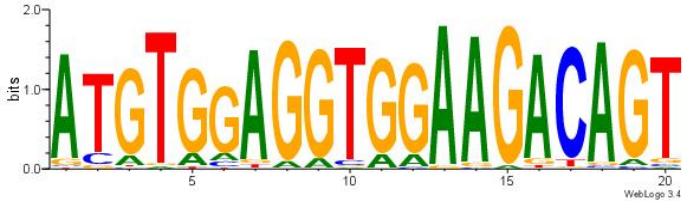

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0872576

Alignment:
GTGTCCCCTTCCTCCC
--TTTCTTTTCCTT--

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

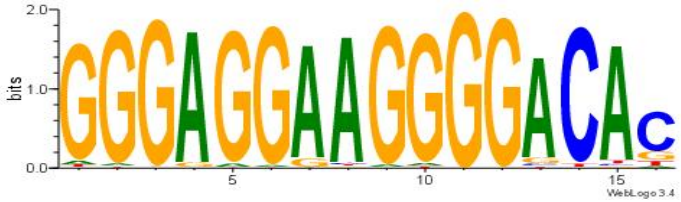

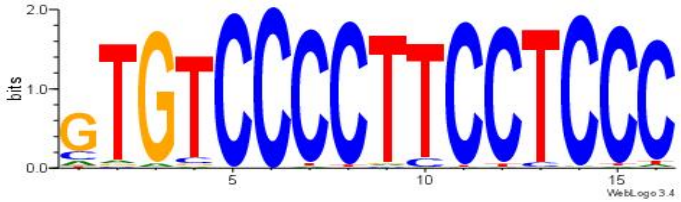

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0873559

Alignment:

```
CAACATGGATGRARCTGGAG
--------AAGGAAAAGAAA
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

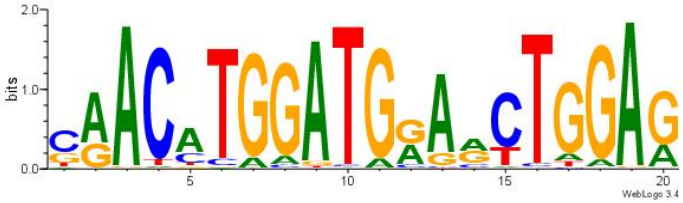

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

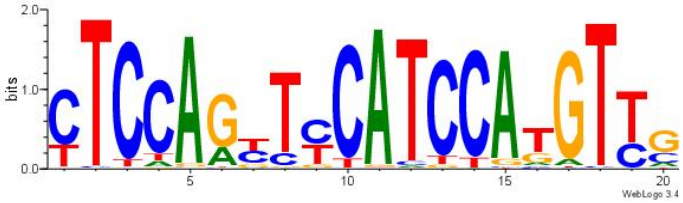

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0881186

Alignment:

```
GCCGTTTKTTAAGCCCGTY
---TTTCTTTTCCTT----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

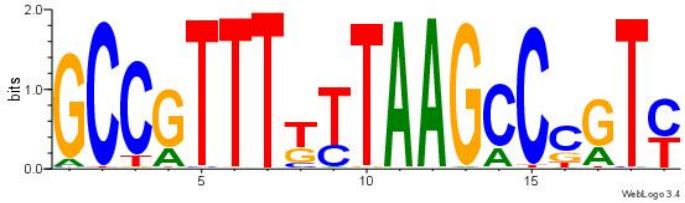

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

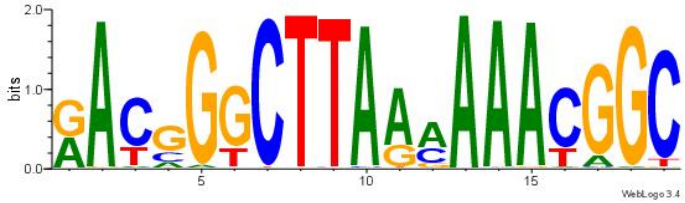

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0886383

Alignment:
HAGTGGKATTGCTGGATCAT
--TTTCTTTTCCTT------

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

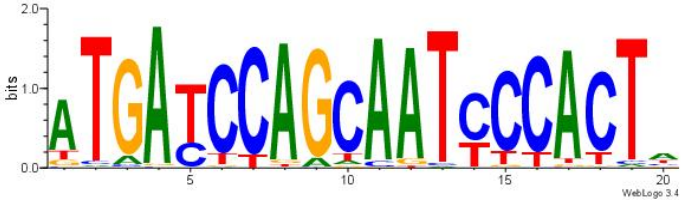

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

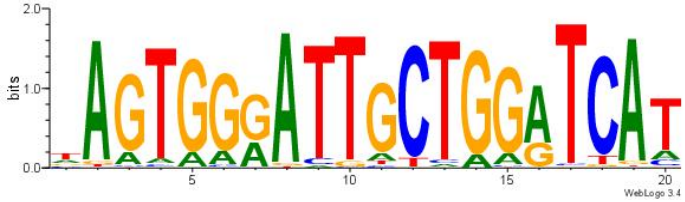

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.0889422

Alignment:
MGTCTMKCTCTGTKGCCCAG
--TTTCTTTTCCTT------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

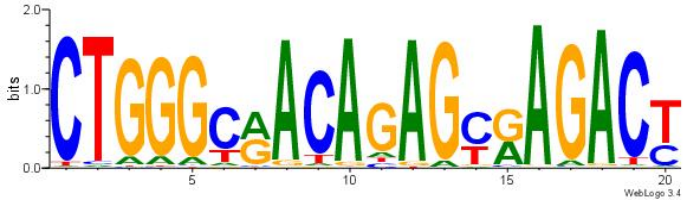

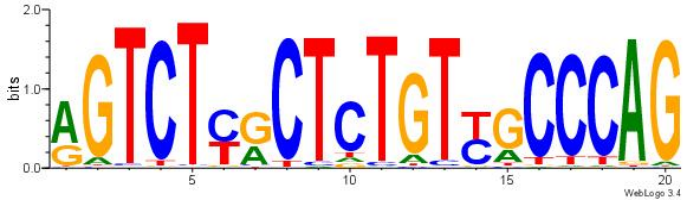

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0889955

Alignment:

```
CACCAGGAGATTATATCCCR
---AAGGAAAAGAAA-----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

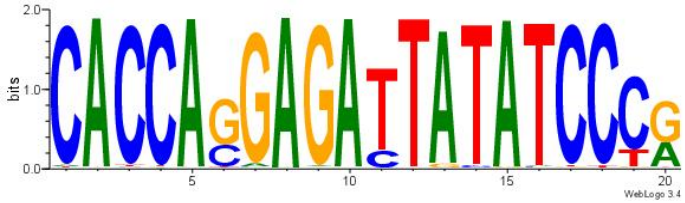

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

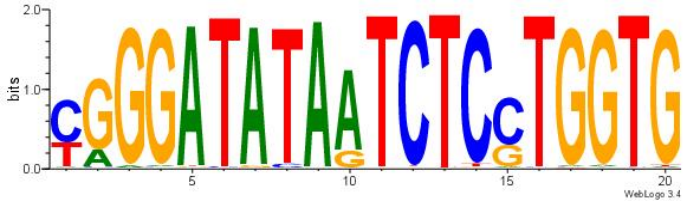

Dataset #: 1 Motif ID: 55 Motif name: Motif 55

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

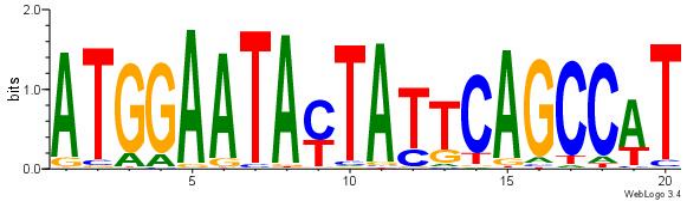

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

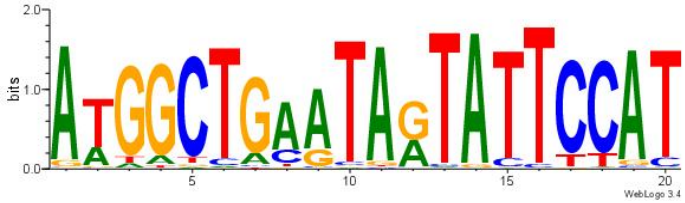

Best Matches for Motif ID 55 (Highest to Lowest)

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0832183

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

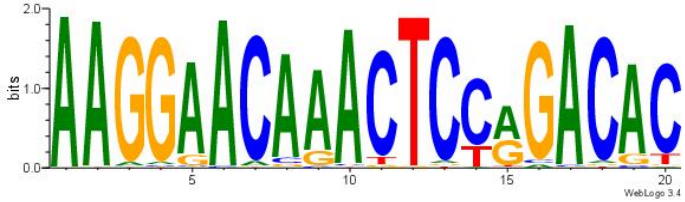

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

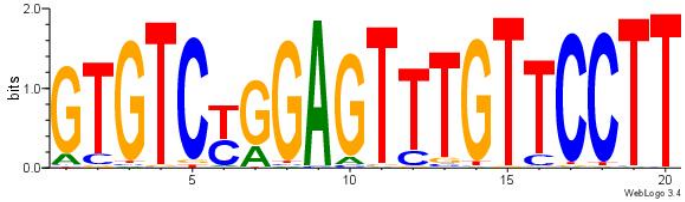

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.102251

Alignment:

```
CAGGTGGTKTTTGGTTACAT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

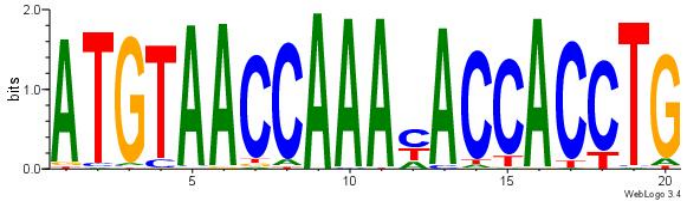

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

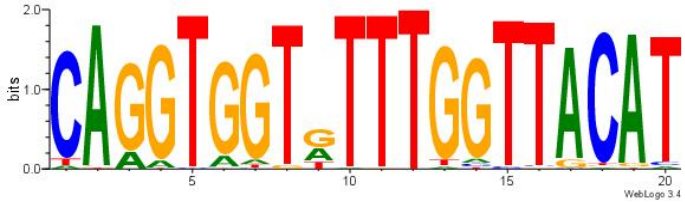

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number: 1
Number of overlap: 20
Similarity score: 0.109578

Alignment:
ATTGATMKCCAGGGTTGATT
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

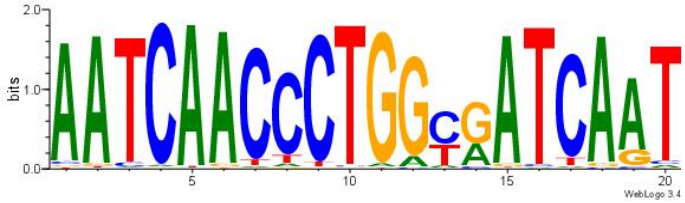

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

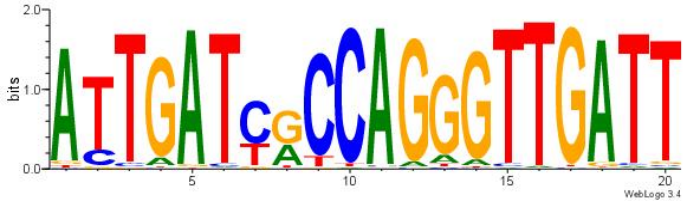

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.110655

Alignment:
ATGGACAYTTRGGTTGHTTC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

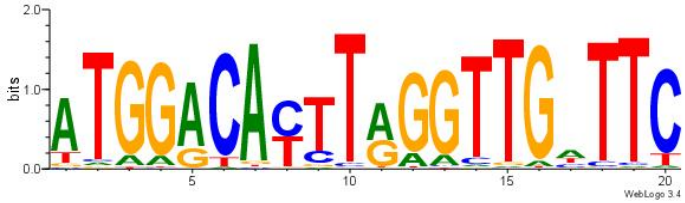

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

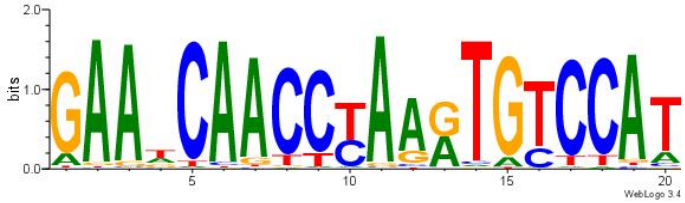

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116225

Alignment:

```
TTGTCCCACTGGAAGGTCTT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

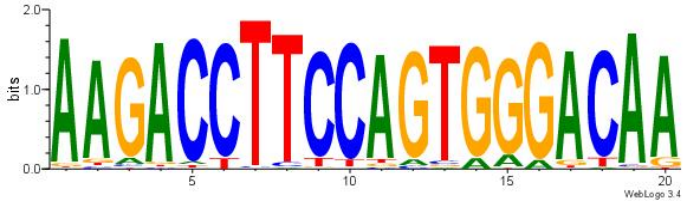

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

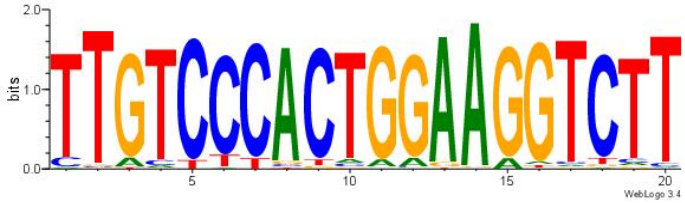

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.116747

Alignment:
GTGGCCCTCTTCTCACAGCT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

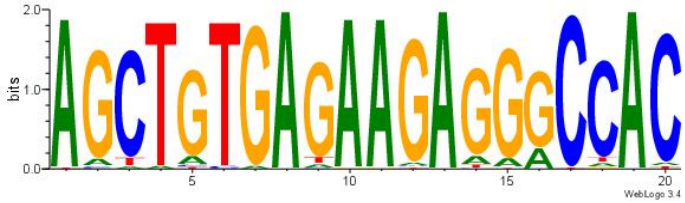

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

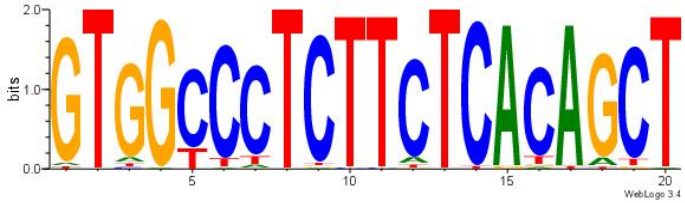

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.117228

Alignment:
ACACATCACAAAGCAGTTTC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

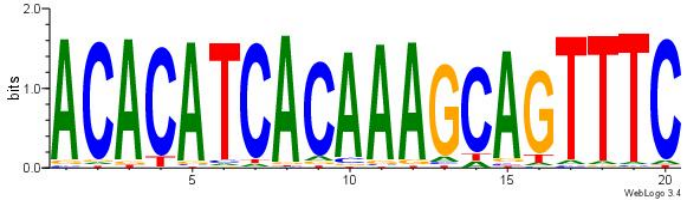

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

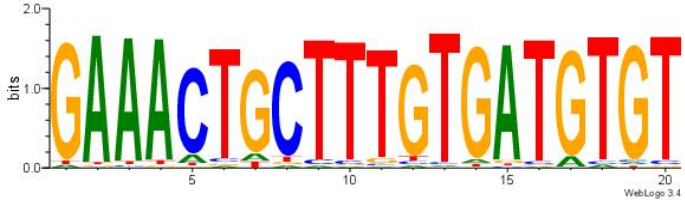

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.117669

Alignment:
ATCTGACAGGAGGYRGAGCT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

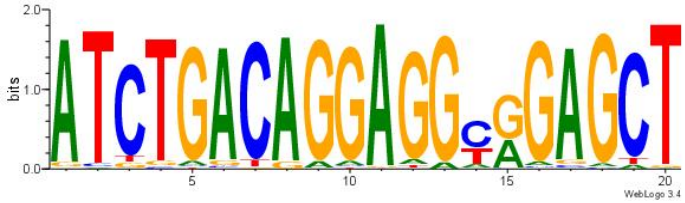

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

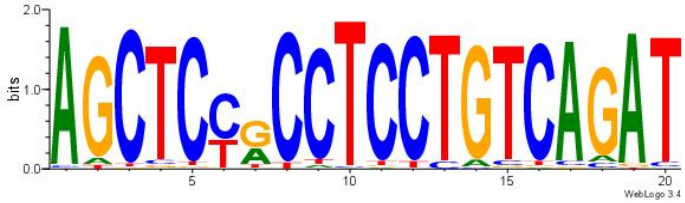

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.119342

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

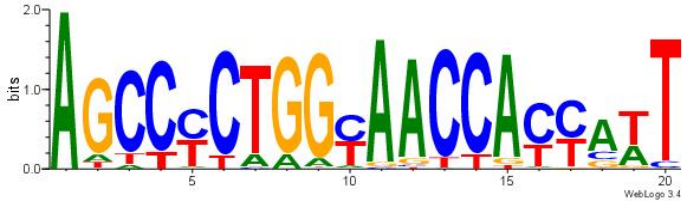

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

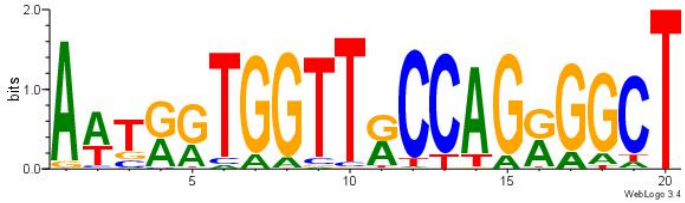

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119985

Alignment:
HAGTGGKATTGCTGGATCAT
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

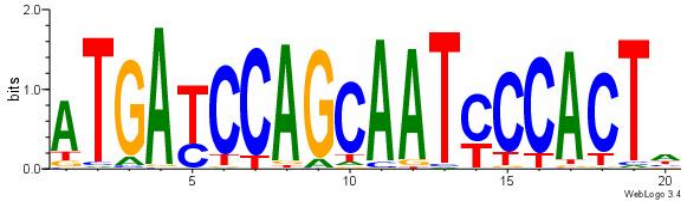

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

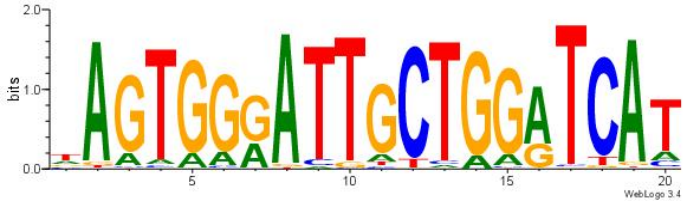

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.120089

Alignment:
CTGGCCCTCAATGGTTAAAC
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

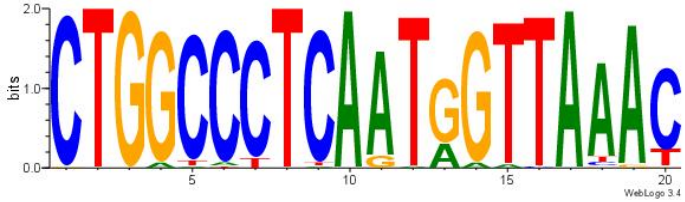

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

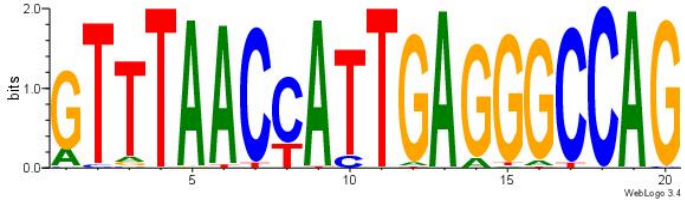

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.12201

Alignment:
ACTGTCTTCCACCTCCACAT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

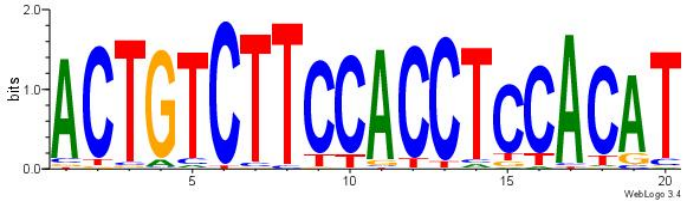

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

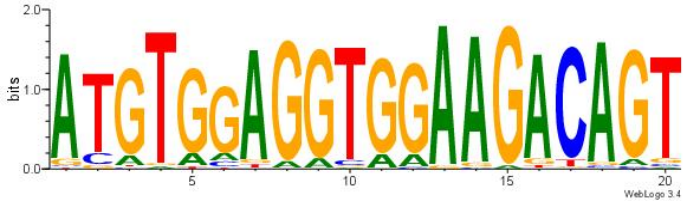

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122097

Alignment:

```
TTCAMTCATGATTTGGCTCT
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

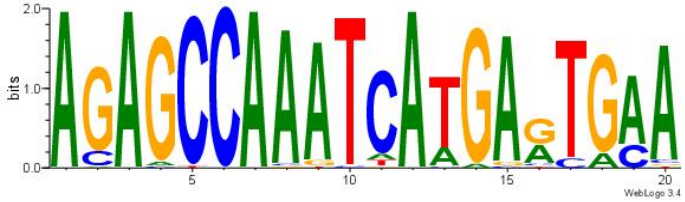

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

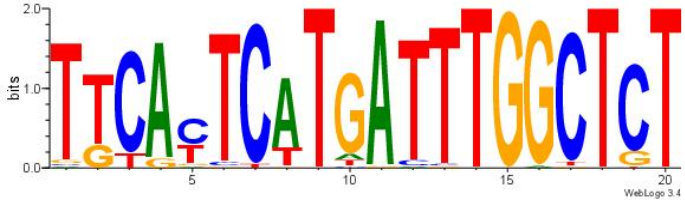

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122505

Alignment:

```
CAACATGGATGRARCTGGAG
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

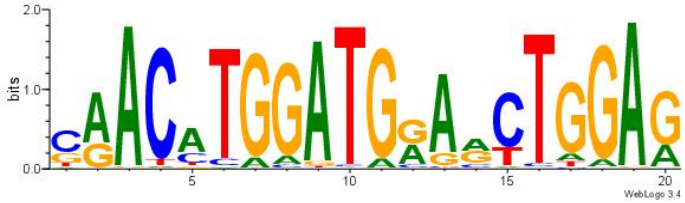

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

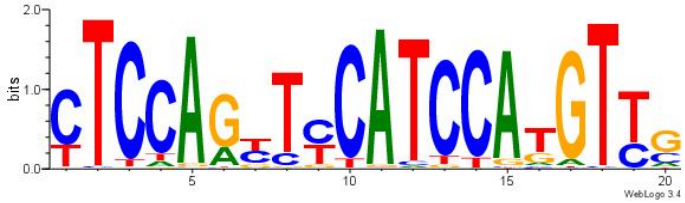

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.122564

Alignment:
AAAGCTGGAGCTATTATCTA
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

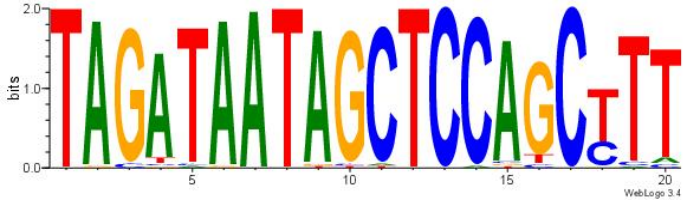

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

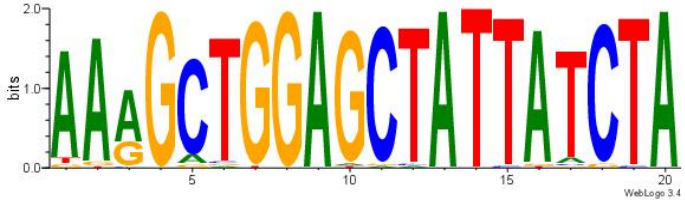

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.123881

Alignment:
GGGATTGTAAATACACCAAT
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

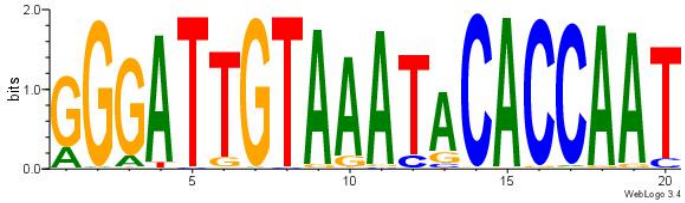

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123989

Alignment:

```
AAAATGTGGTAYATAYAYAC
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

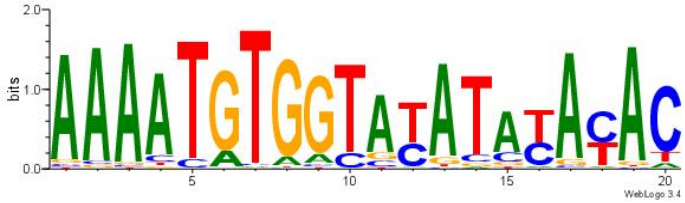

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

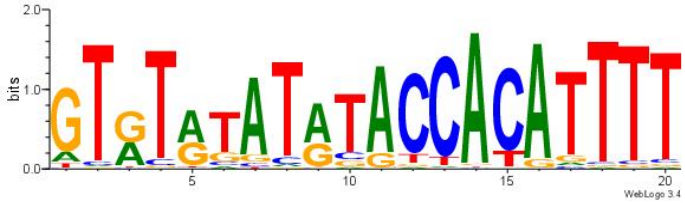

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124358

Alignment:
CTTGCCCAAGGTCACACAGC
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

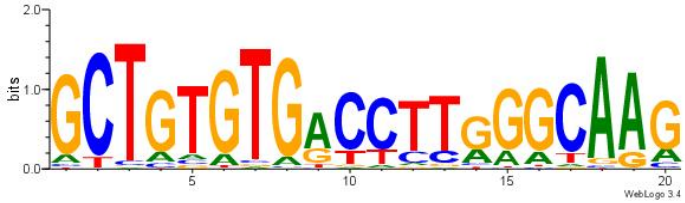

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

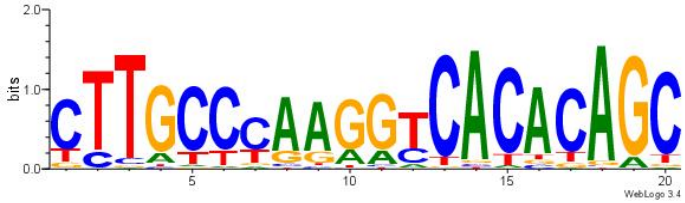

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.124402

Alignment:
TTTYTWTTTTTTYTWGAGAC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

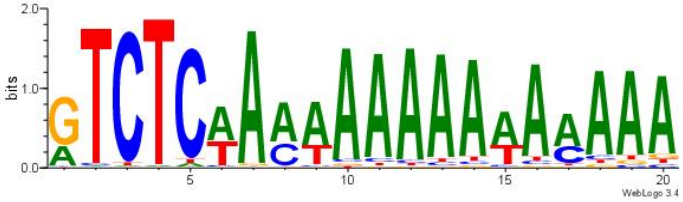

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

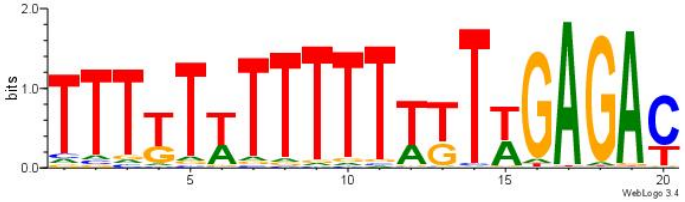

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128062

Alignment:
ARCTCCTGKSCTCAAGKGAT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

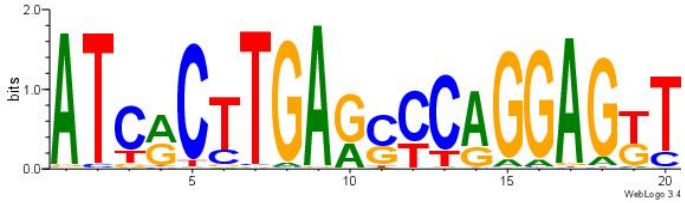

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

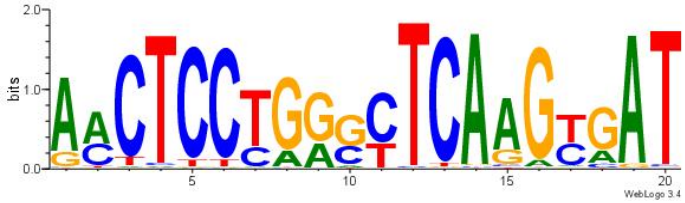

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128818

Alignment:

```
AGTAGGTGCTCARTAAATRB
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

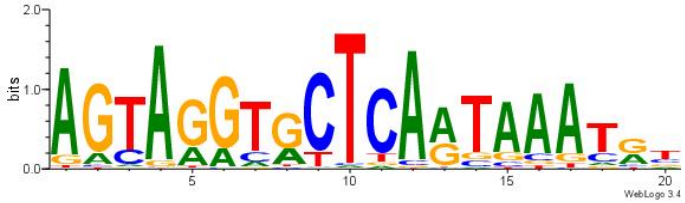

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

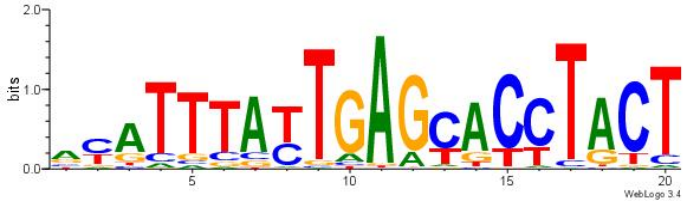

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132505

Alignment:
AACAACASACACTGGGGCCT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

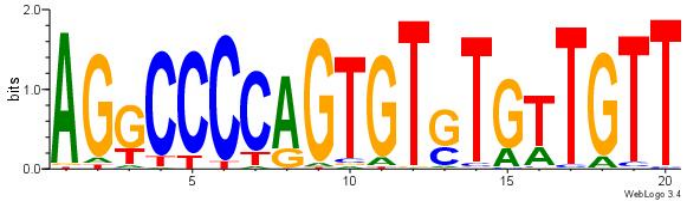

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

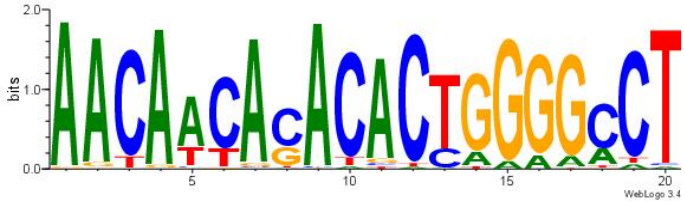

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.132723

Alignment:
CTGGGCRACAGAGYRAGACY
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

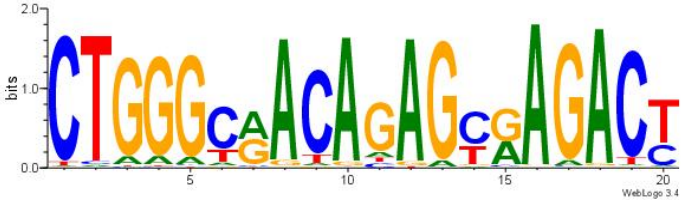

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

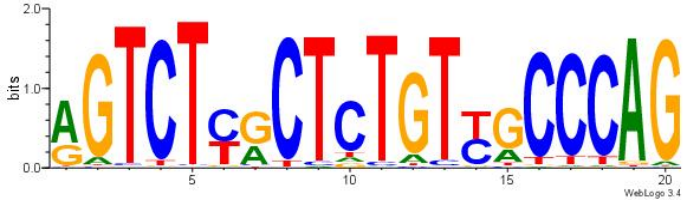

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.132887

Alignment:
GGGAGGTGTCTCCCAGTCAG
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

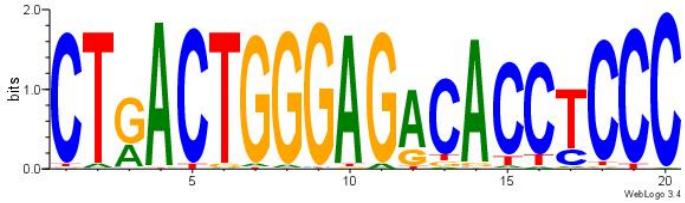

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

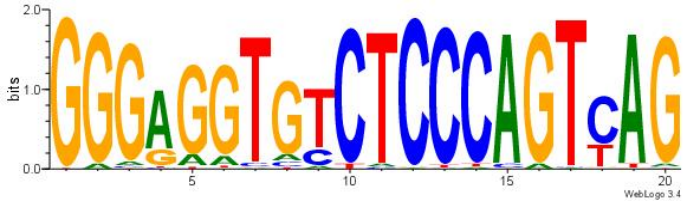

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133674

Alignment:

```
AAAMAMMKMATGTTCTCACT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

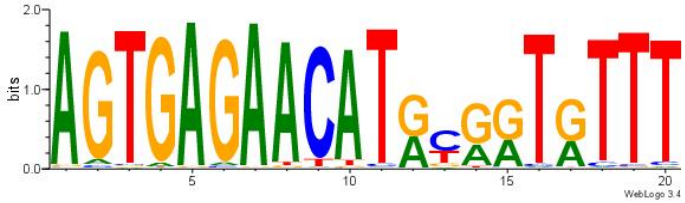

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

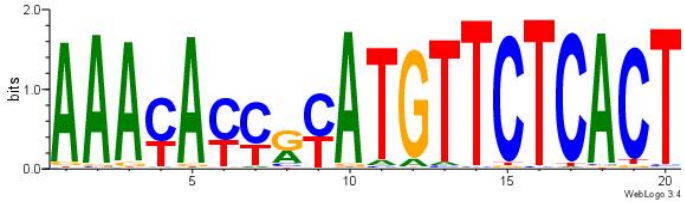

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135037

Alignment:

```
AAAAGTCCACAGTCCAAAGT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

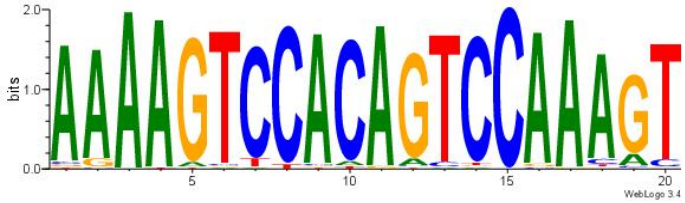

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

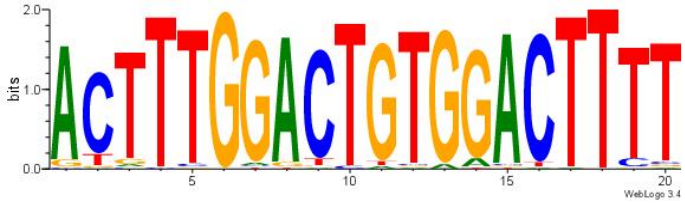

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.135629

Alignment:
TWTACCTATGTAACAAACCT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

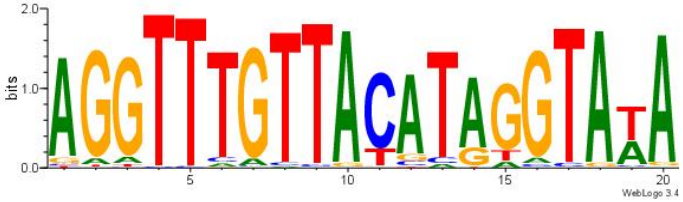

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

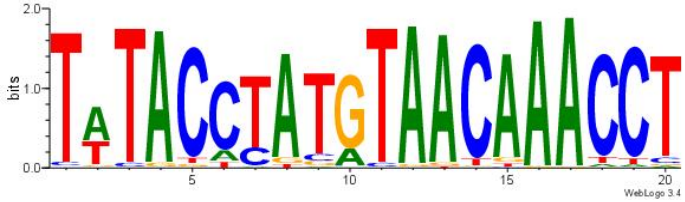

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135644

Alignment:
AAGCAGGGCGAGGCATTGCC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

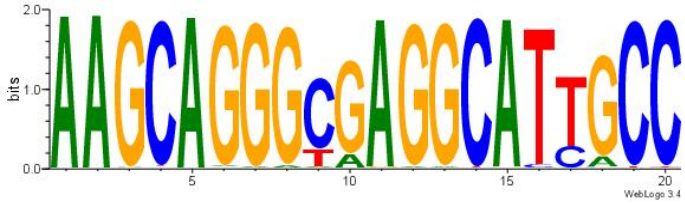

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

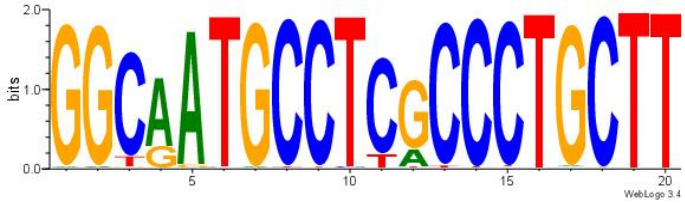

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135722

Alignment:

```
TAATTTTATGTGTCAACTTG
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

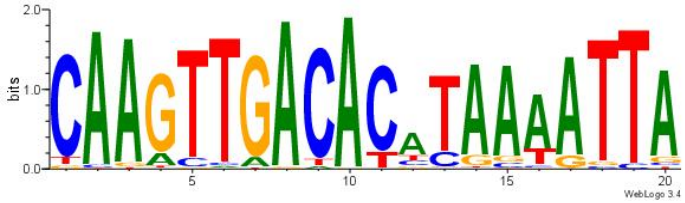

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

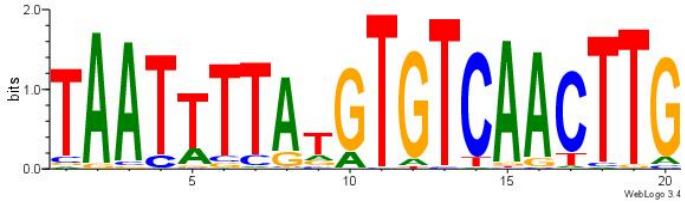

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135794

Alignment:

```
AAATTAGGCCAATTAATAAC
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

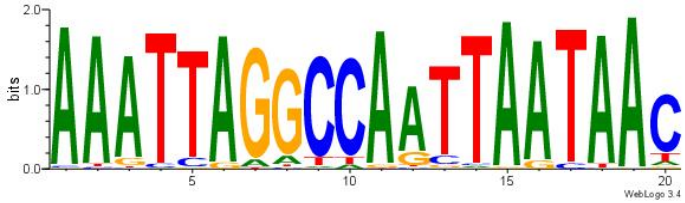

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.136167

Alignment:
CMTAGYACAGTGCCTGGCAC
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

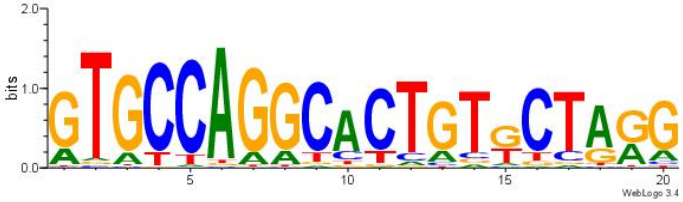

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

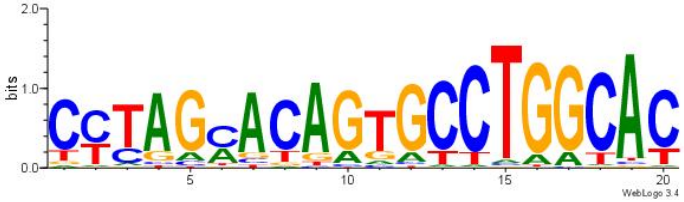

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137051

Alignment:
GCAAAKGACATGATYTCATT
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

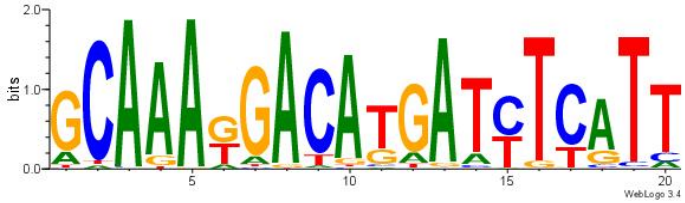

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

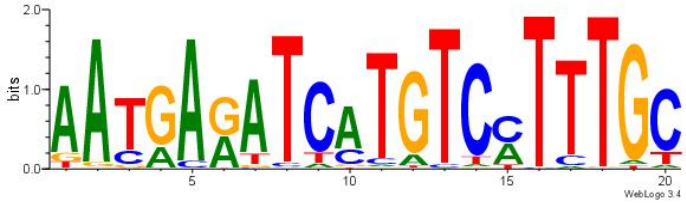

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138142

Alignment:

```
KKCACCTTGATCTTGGACTT
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

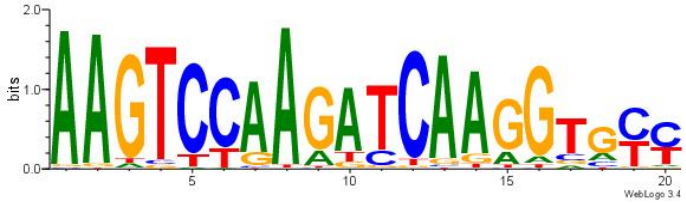

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

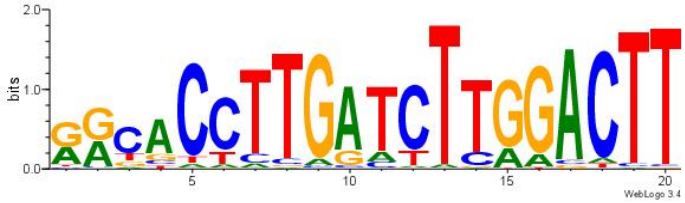

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139538

Alignment:
GCACATGTAYCCYAGAACTT
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

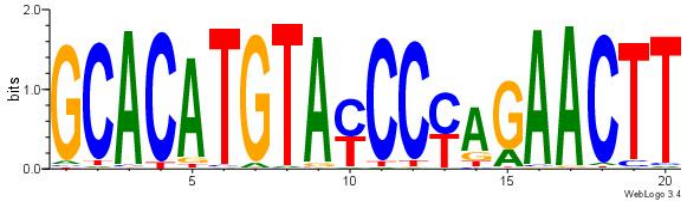

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

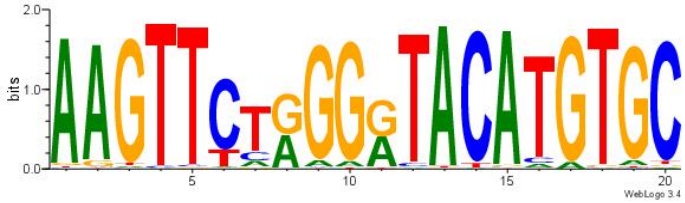

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.139703

Alignment:
CTGGGTCCCCCAGCAGTGCC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

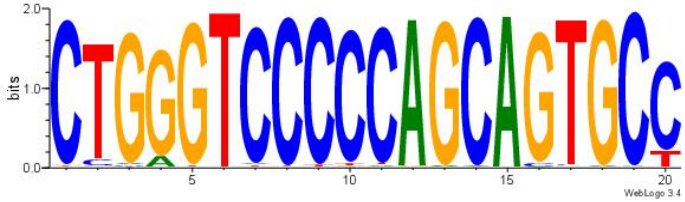

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

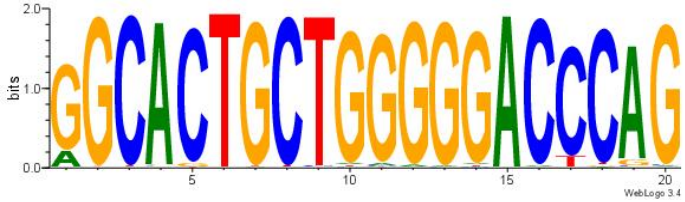

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140948

Alignment:
CATTCTGGGGTCTGGAGGAY
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

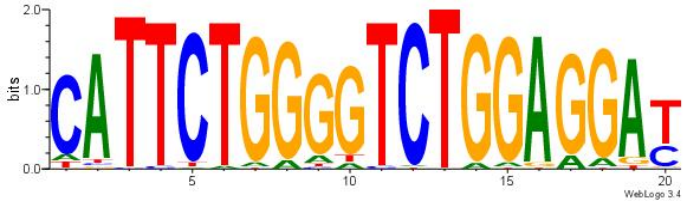

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

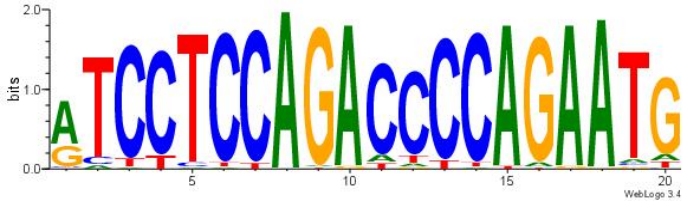

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14173

Alignment:

```
AGGACTGAGGGTGCCYRGGG
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

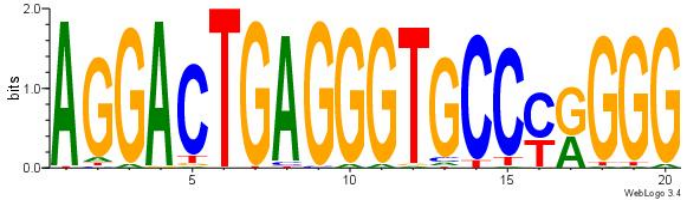

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

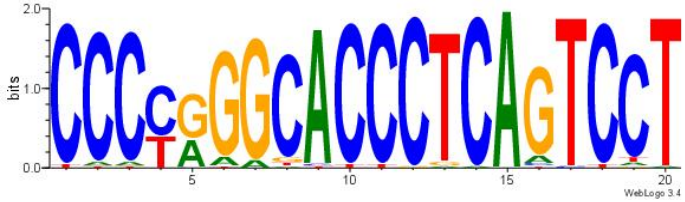

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141812

Alignment:
CTCCTGCCTCAGCCTCCCRA
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

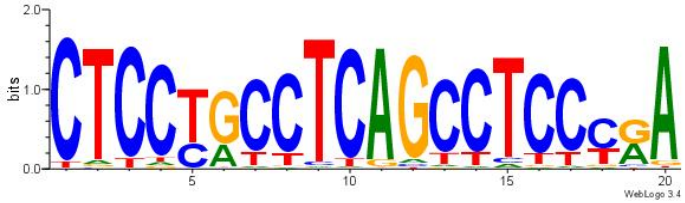

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

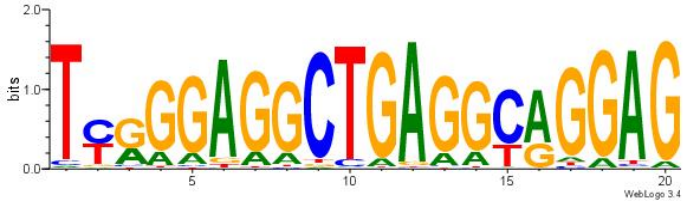

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.14191

Alignment:
ACCGAGMKMGCAGCTTCGGG
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

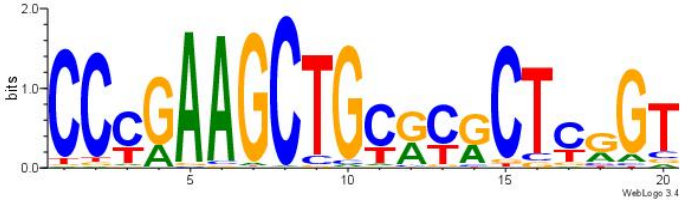

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

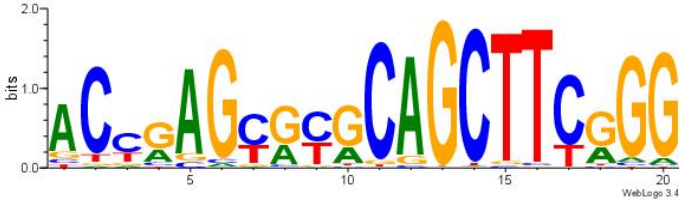

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142359

Alignment:
AAGCTCGAACTGGGTGGAGC
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

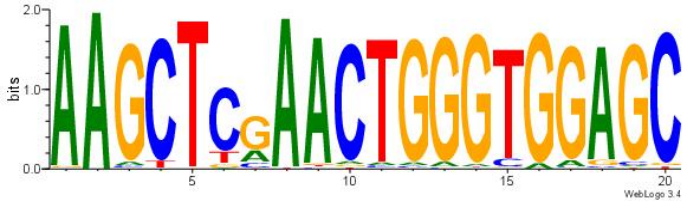

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

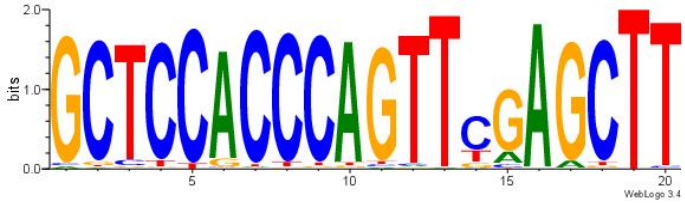

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142852

Alignment:

```
TGGAGAACCTTTATGTCTAG
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

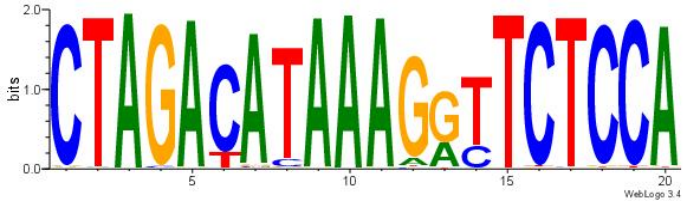

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

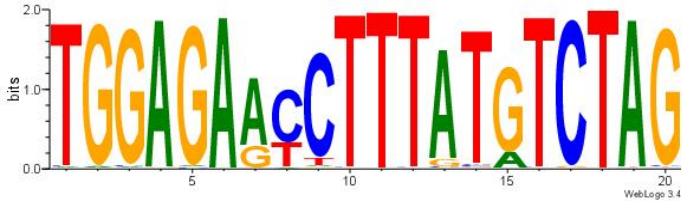

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142868

Alignment:

```
AAAATCACAAGCATTCCTAT
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

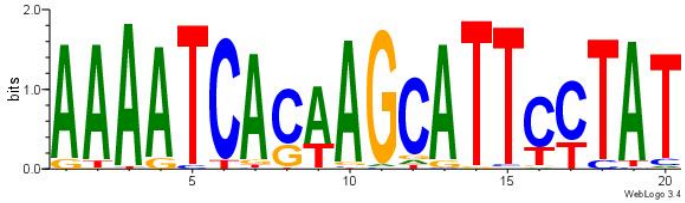

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

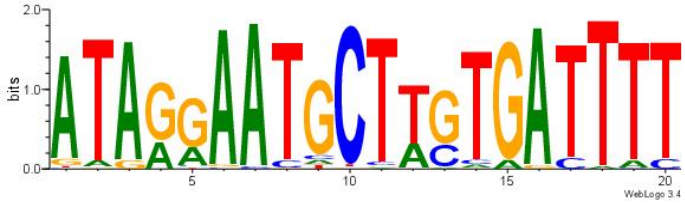

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.143078

Alignment:
AAGCTGAGGGAGCCGGCTCC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

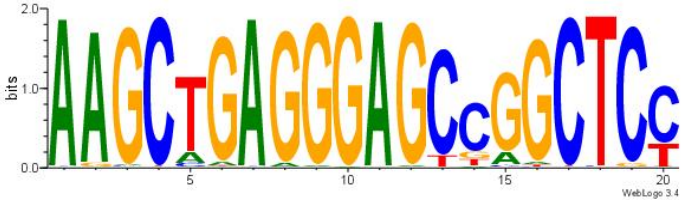

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

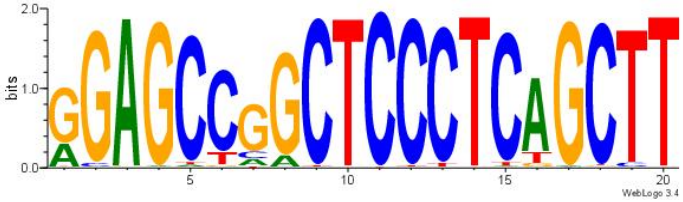

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143095

Alignment:
GGTTCATCTCACTAGGGAGT
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

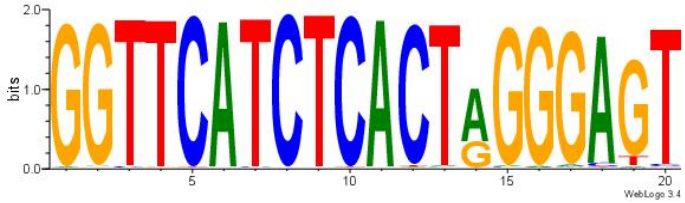

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

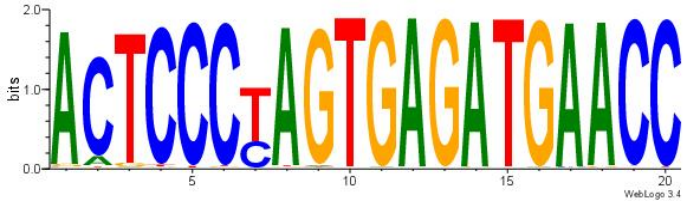

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143451

Alignment:

```
MGGGATATAATCTCCTGGTG
ATGGCTGAATAKTATTCCAT
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

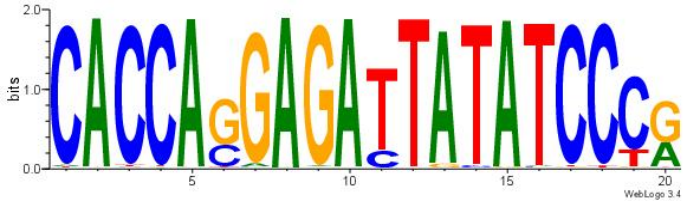

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

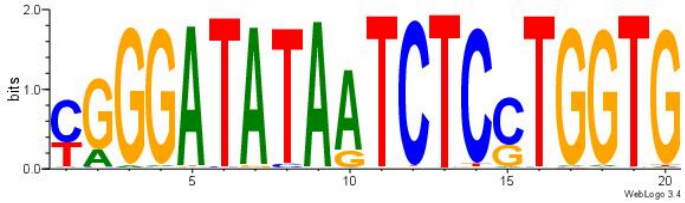

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144853

Alignment:
TCKMGCCACTGCACTCCAGC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

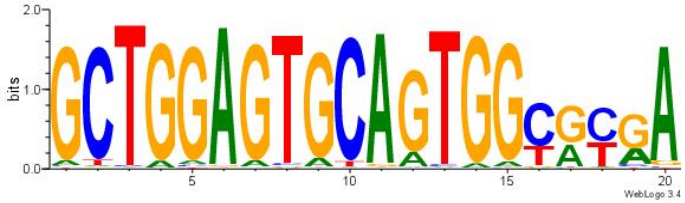

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

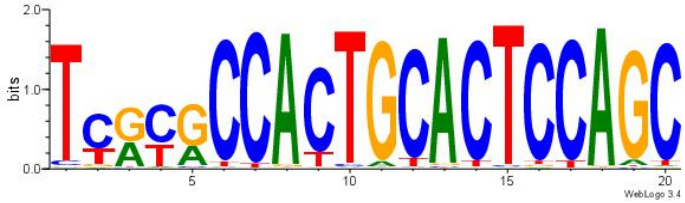

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.145567

Alignment:
AGAAATCGAGCRCAGCGCCG
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

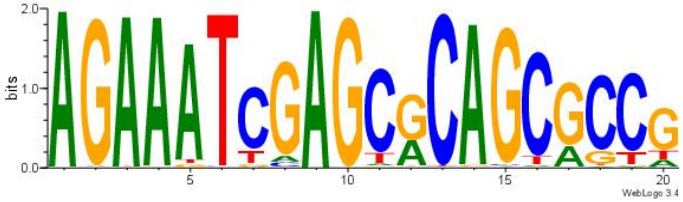

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

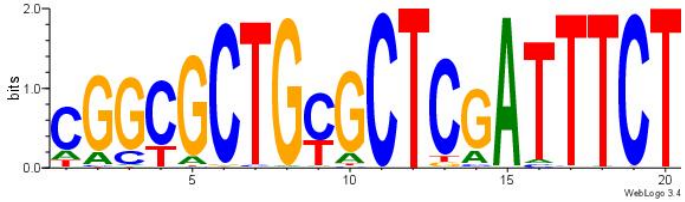

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149168

Alignment:
CACCAGACTCAGGAGCCCAG
ATGGCTGAATAKTATTCCAT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

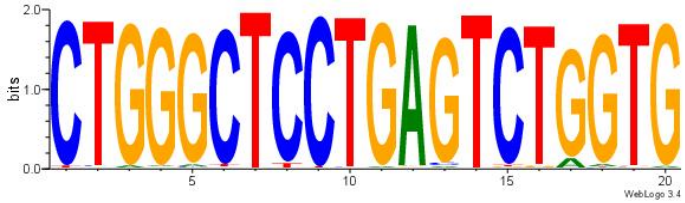

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

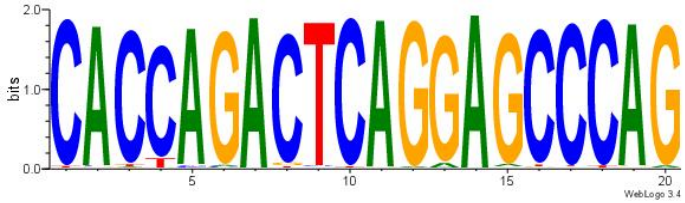

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149428

Alignment:

```
GTAACACTCACCGCGARGGT
ATGGAATAYTATTCAGCCAT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

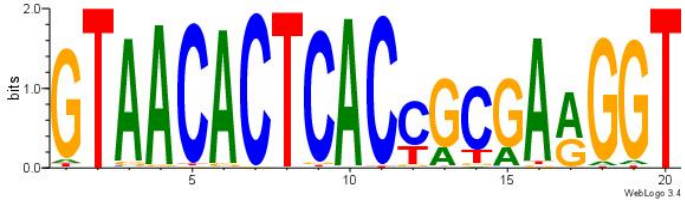

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

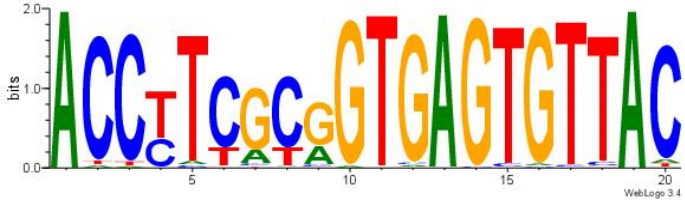

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150112

Alignment:
TCTCTCTCTCTCTCTCTCTC
ATGGAATAYTATTCAGCCAT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

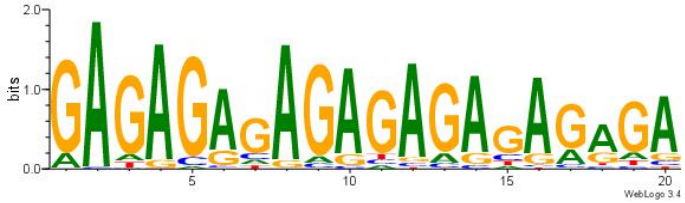

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

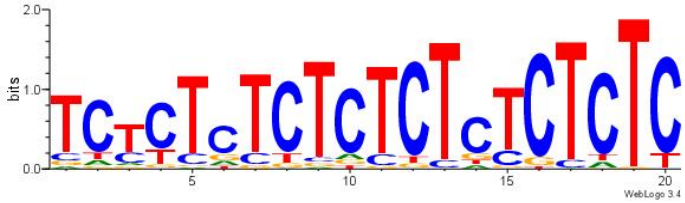

Dataset #: 1 Motif ID: 56 Motif name: Motif 56

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

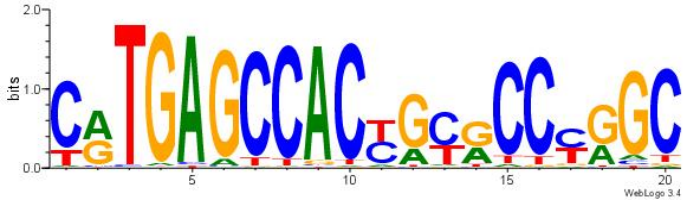

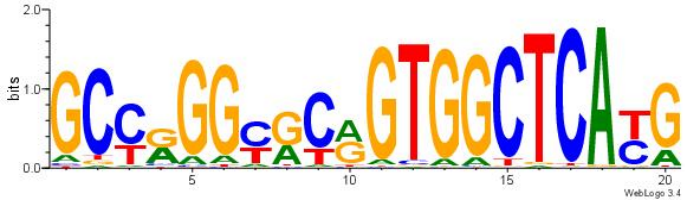

Best Matches for Motif ID 56 (Highest to Lowest)

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0865863

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

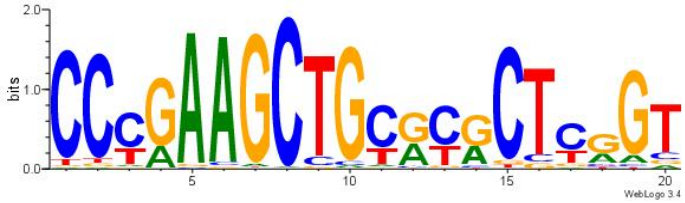

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

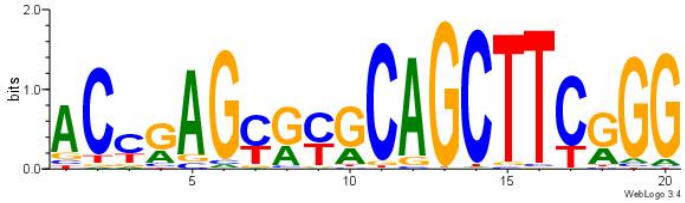

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.103187

Alignment:
CTTGCCCAAGGTCACACAGC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

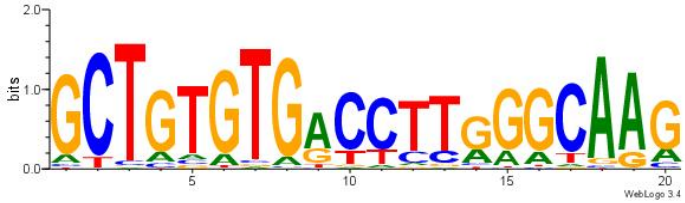

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

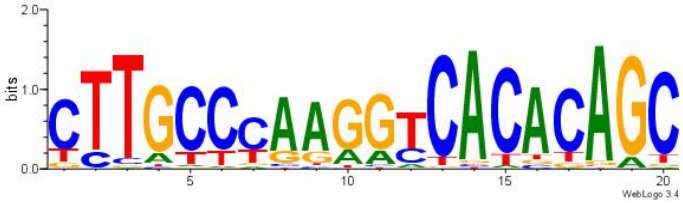

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.10735

Alignment:
AGTGACCCGATTTTCCAGGT
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

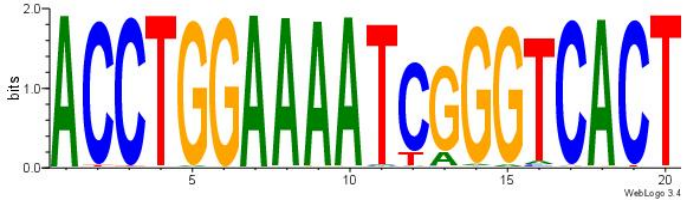

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

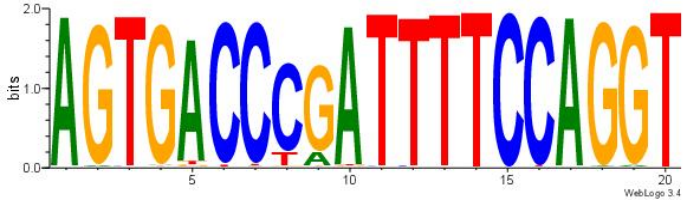

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.113075

Alignment:
TYTGTCMTTTTGTGACTGGC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

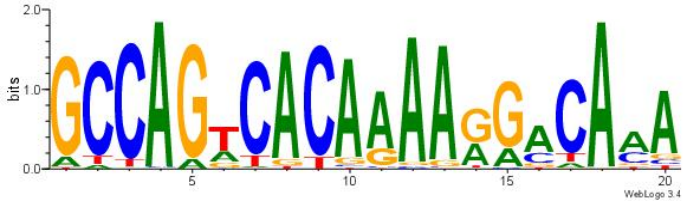

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

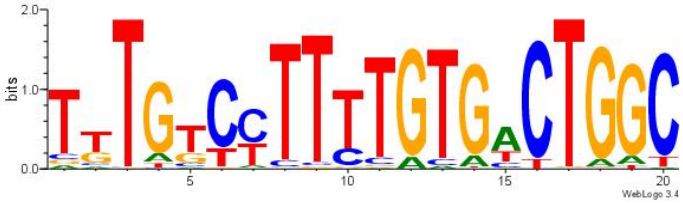

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117573

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

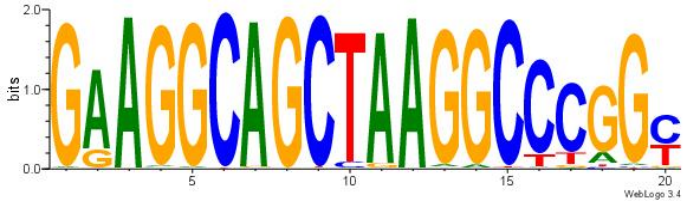

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

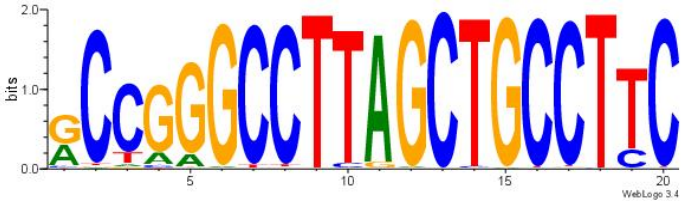

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.119066

Alignment:
CTCCTGCCTCAGCCTCCCRA
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

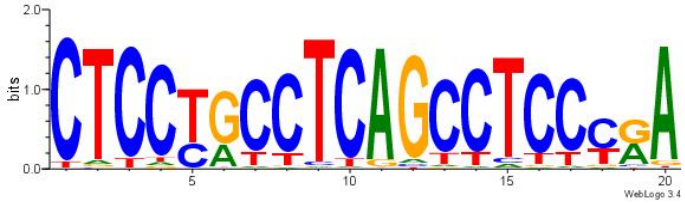

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

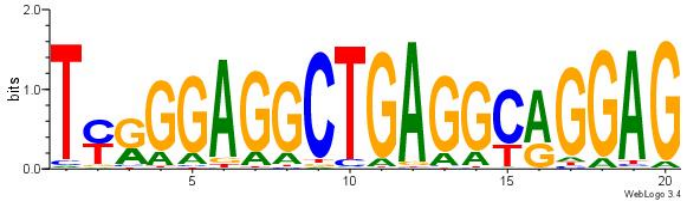

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.12006

Alignment:
AATGAKATCATGTCYTTTGC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

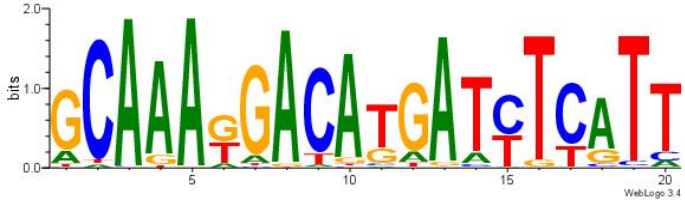

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

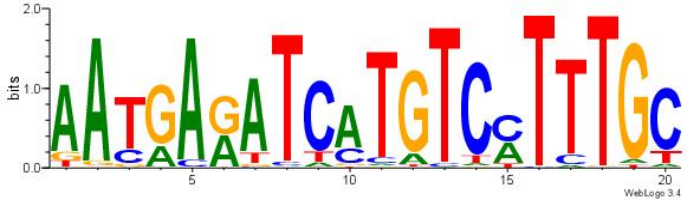

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.121495

Alignment:
ATTGATMKCCAGGGTTGATT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

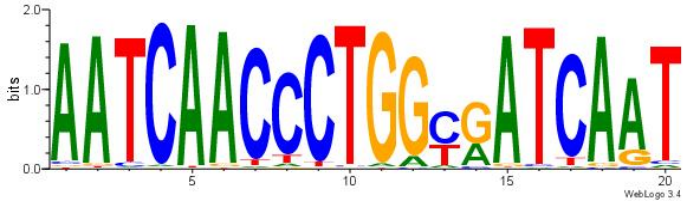

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

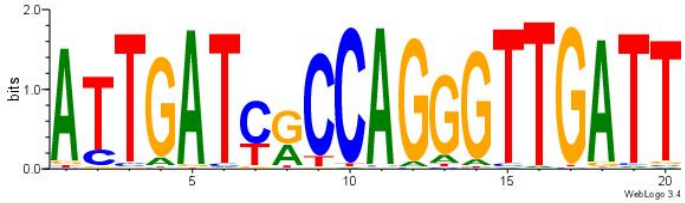

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122223

Alignment:

```
GGATTTMKGACTTGCATGGG
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

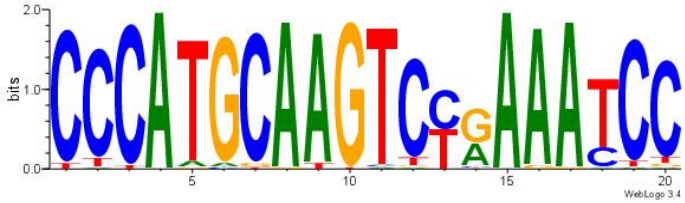

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

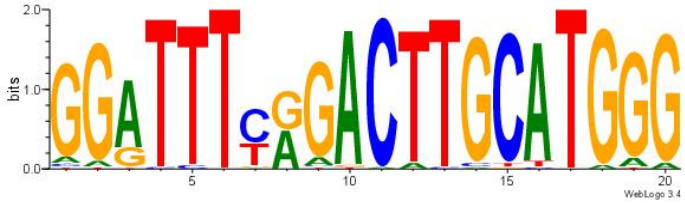

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127444

Alignment:

```
AAAMAMMKMATGTTCTCACT
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

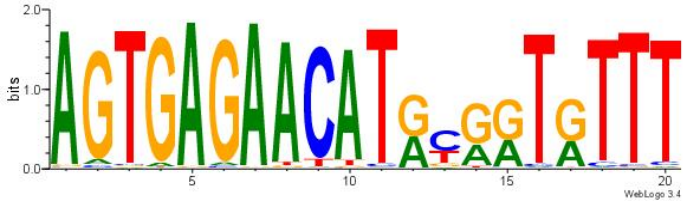

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

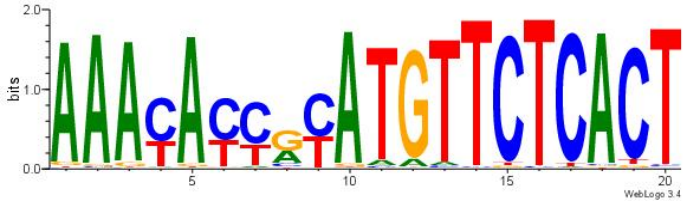

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.127578

Alignment:
CGCGGCGCTTGCGGGCCAGC
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

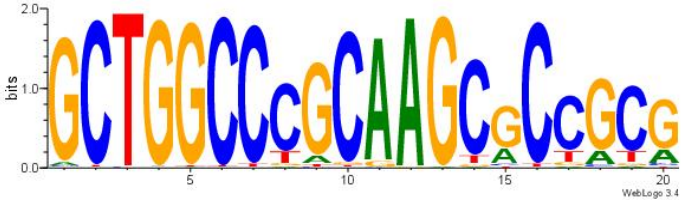

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

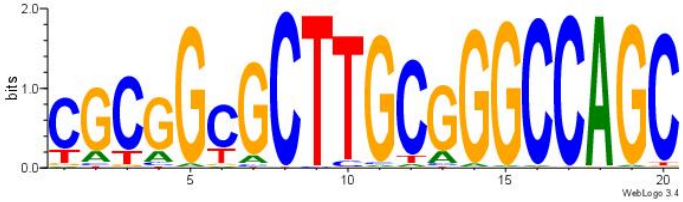

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.12845

Alignment:
ACTTTGGACTGTGGACTTTT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

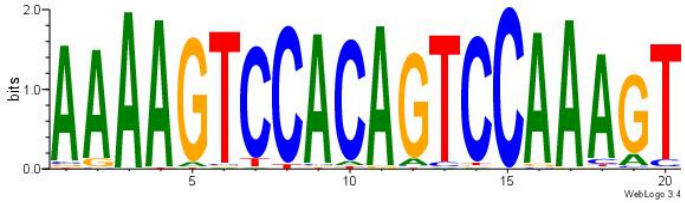

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

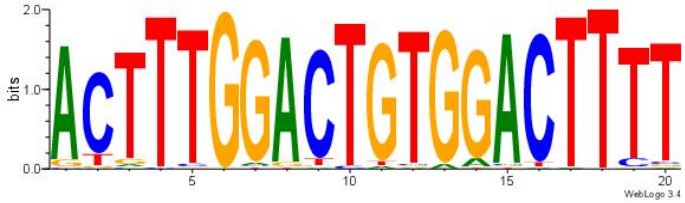

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128628

Alignment:

```
GACTGGCAGGCAGCTCCACC
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

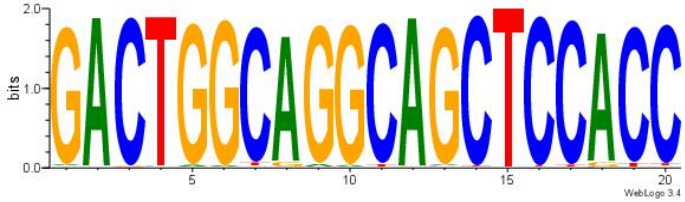

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

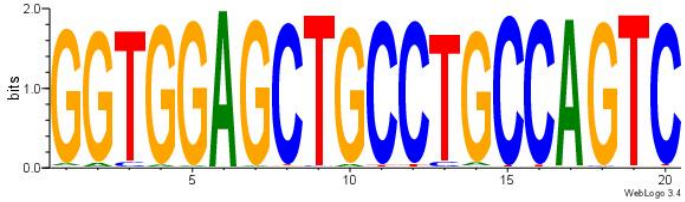

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129383

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

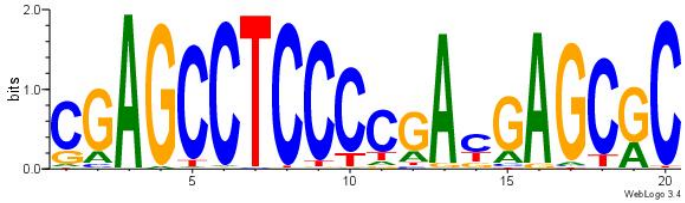

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

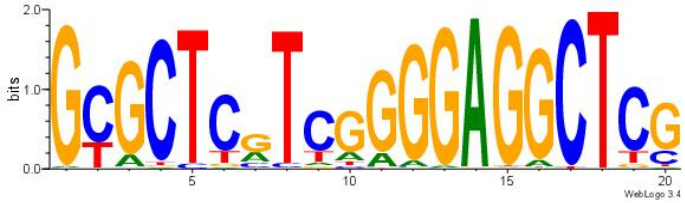

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.129575

Alignment:
GTGCCAGGCACTGTKCTARG
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

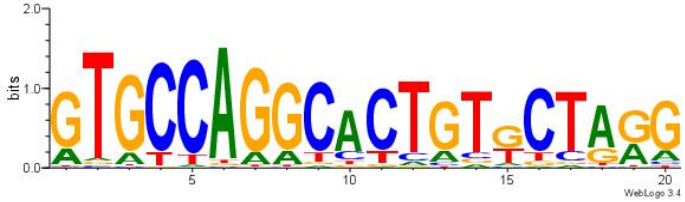

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

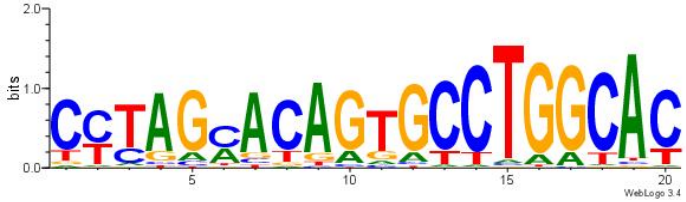

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131609

Alignment:
CTGGGCRACAGAGYRAGACY
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

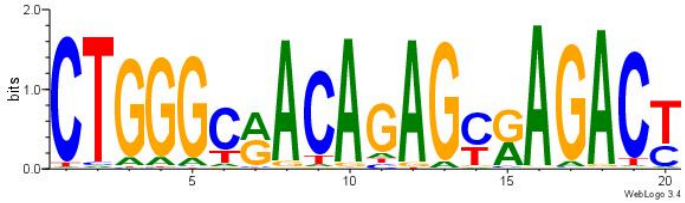

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

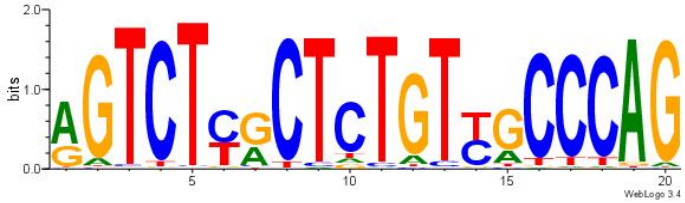

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132534

Alignment:

```
GGGCTCCCACAGTGCAGCGG
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

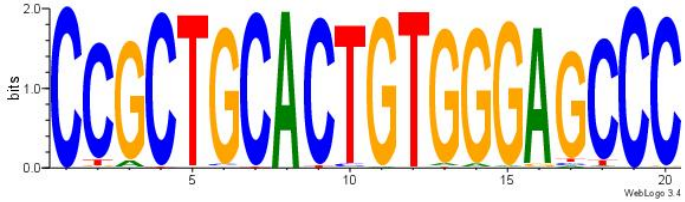

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

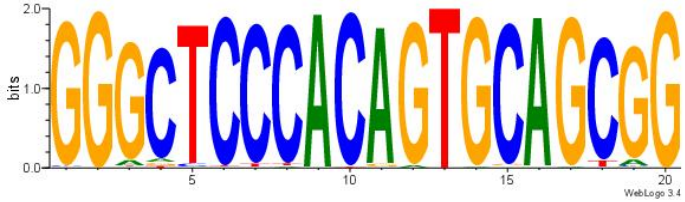

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132699

Alignment:

```
CACCAGACTCAGGAGCCCAG
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

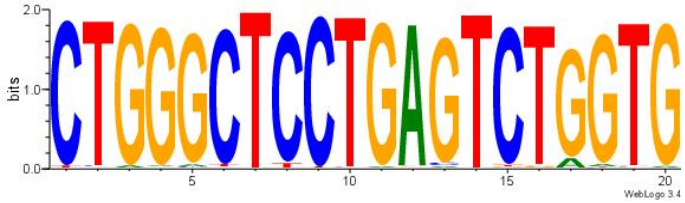

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

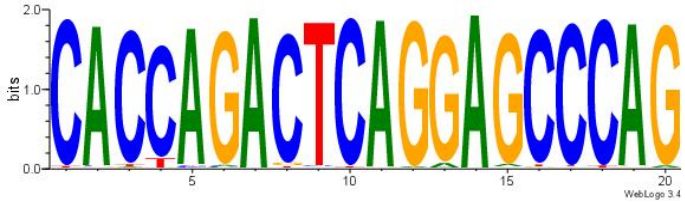

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.135011

Alignment:
TAAAAGACTACAWATTGGGT
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

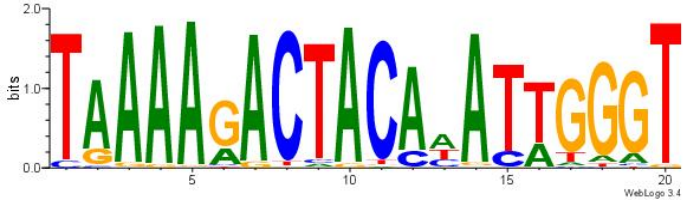

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

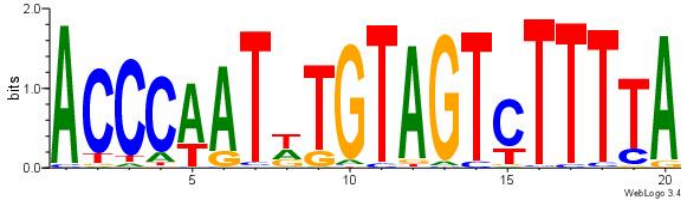

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135085

Alignment:
GTGTCKGGAGTTTGTTCCTT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

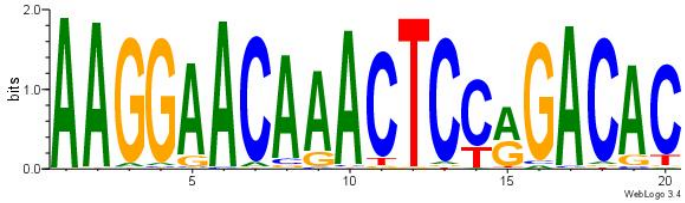

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

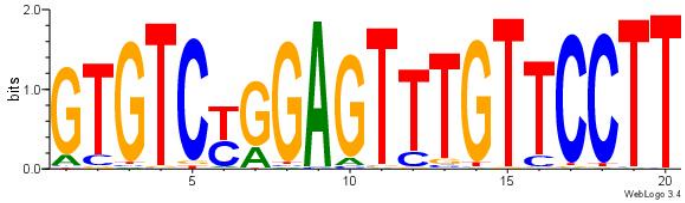

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136048

Alignment:

```
CTGGCCCTCAATGGTTAAAC
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

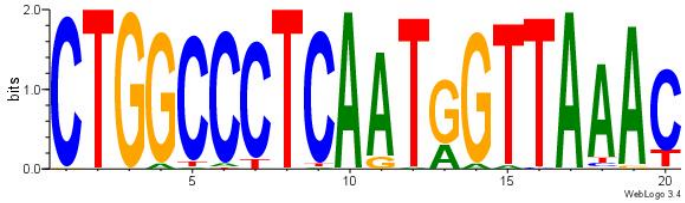

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

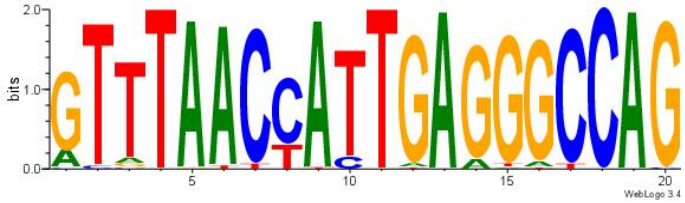

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136932

Alignment:
ATGTGGAGGTGGAAGACAGT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

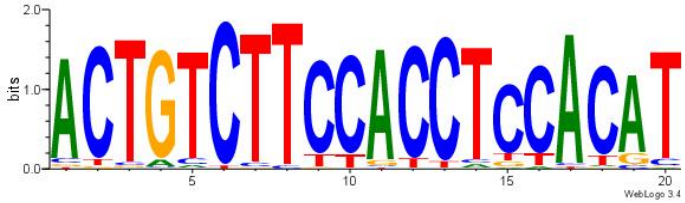

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

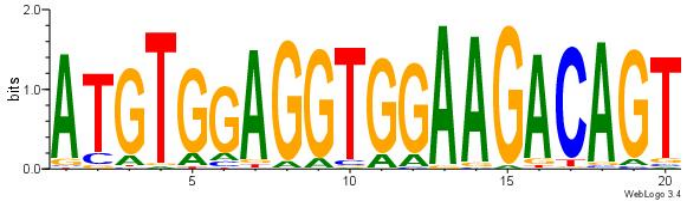

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.138681

Alignment:
CTGGGTCCCCCAGCAGTGCC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

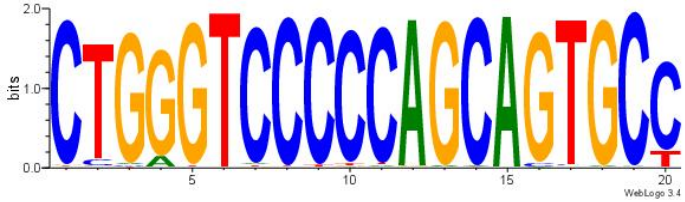

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

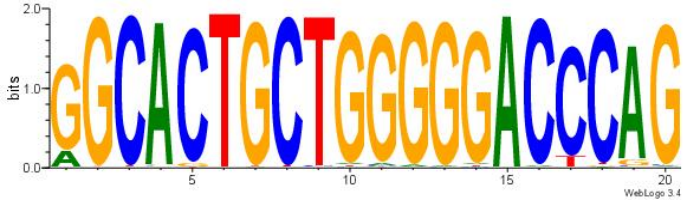

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140416

Alignment:
GCCTCCTTGAGCTGTGGTGG
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

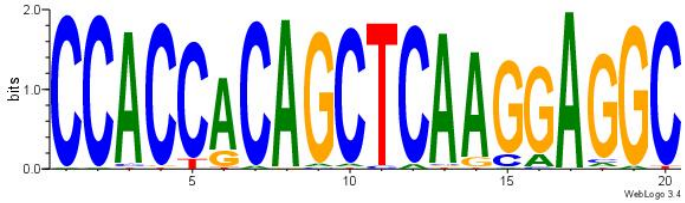

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

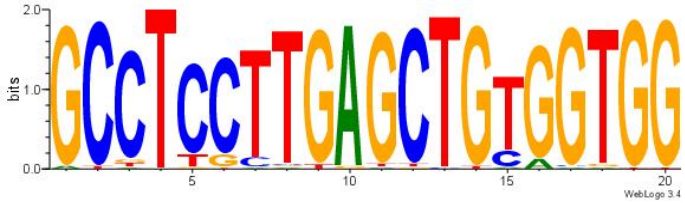

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140574

Alignment:

```
CGTCGCTCACGCTGGGAGCT
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

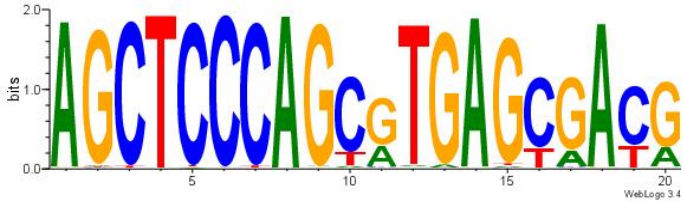

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

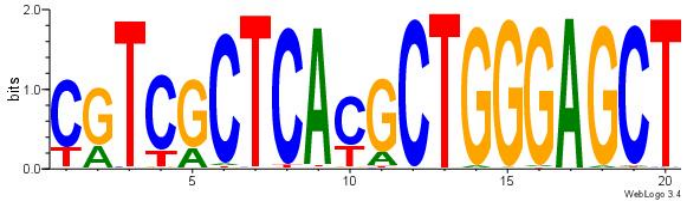

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14105

Alignment:
AGAAATCGAGCRCAGCGCCG
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

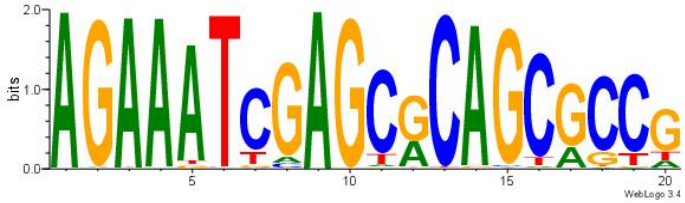

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

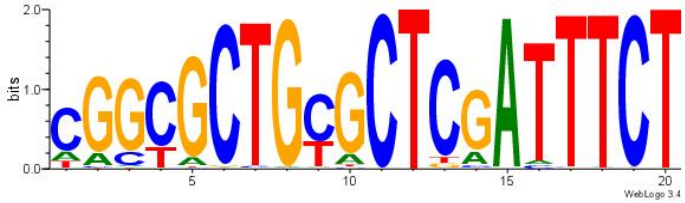

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.141169

Alignment:
CTCCAGKTMCATCCATGTTG
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

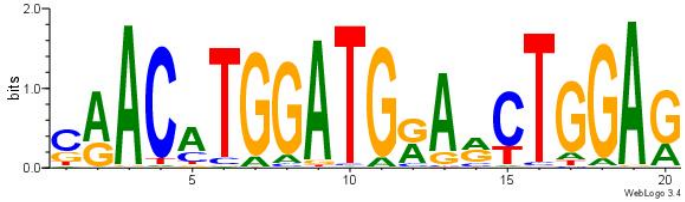

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

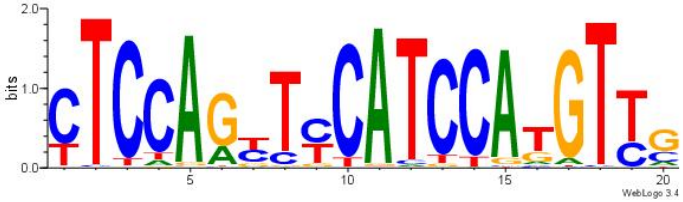

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141376

Alignment:
TCTCTCTCTCTCTCTCTCTC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

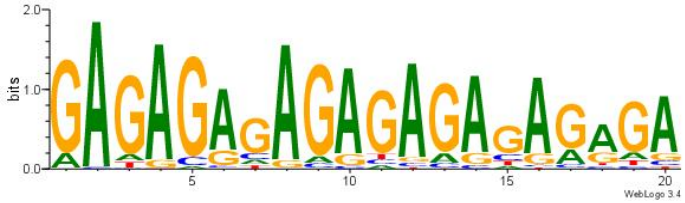

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

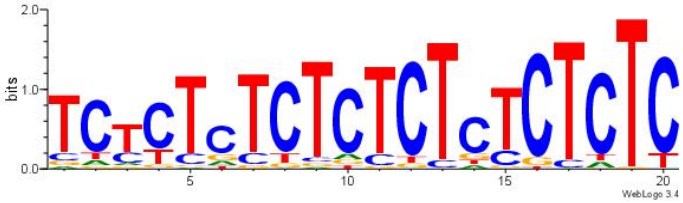

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141521

Alignment:

```
TACCTGAGACTGGGTAATTT
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

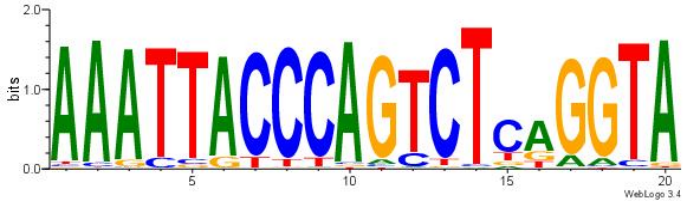

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

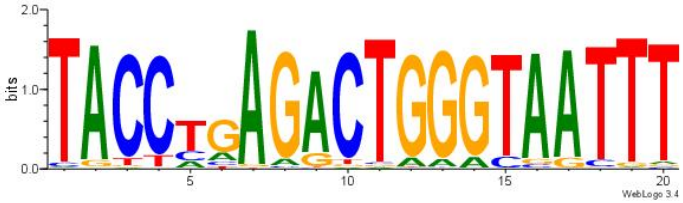

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142234

Alignment:

```
TCKMGCCACTGCACTCCAGC
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

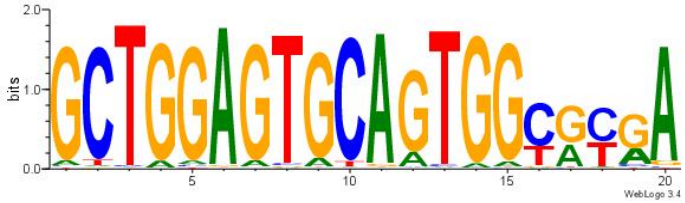

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

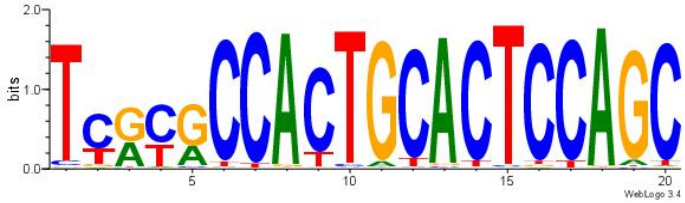

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.142543

Alignment:
AAGCTCGAACTGGGTGGAGC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

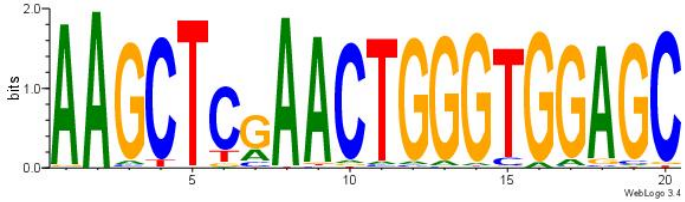

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

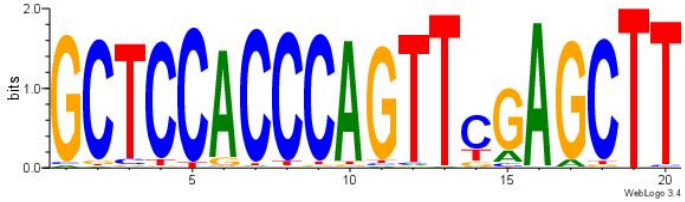

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145323

Alignment:
TGCTGGAGGTCCACTCCAGA
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

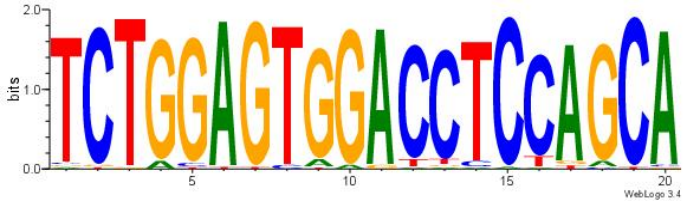

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

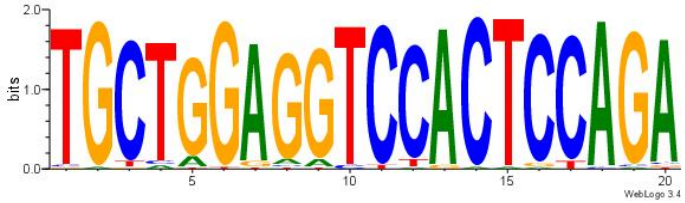

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1456

Alignment:

```
CAGCTACTCKTATACCCTTG
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

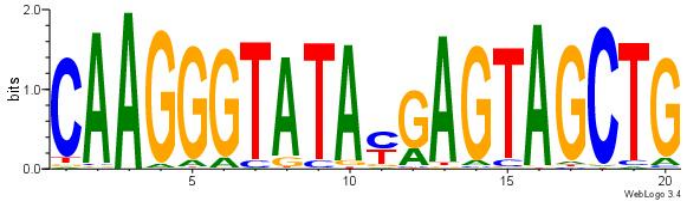

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

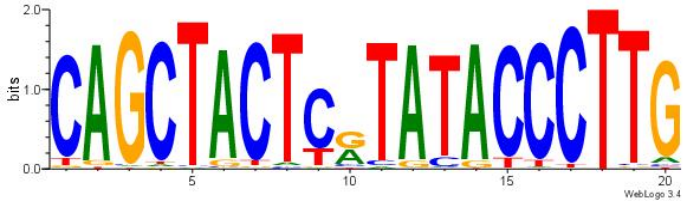

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146938

Alignment:

```
CACCAGGAGATTATATCCCR
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

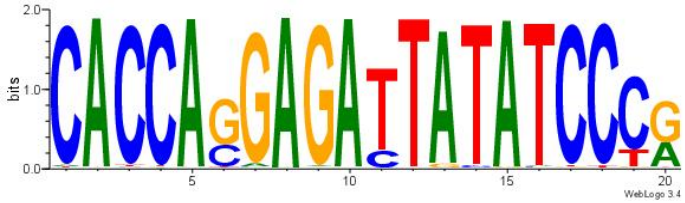

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

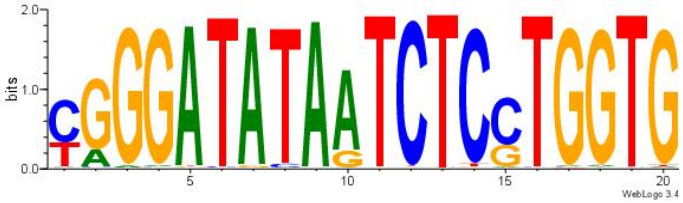

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.14714

Alignment:
CAGGTGGTKTTTGGTTACAT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

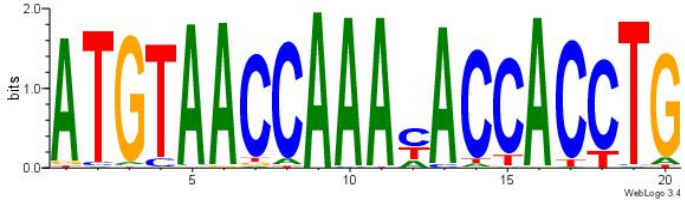

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

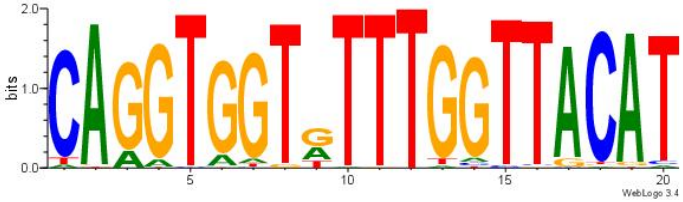

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149357

Alignment:
GAAHCAACCKAAKTGTCCAT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

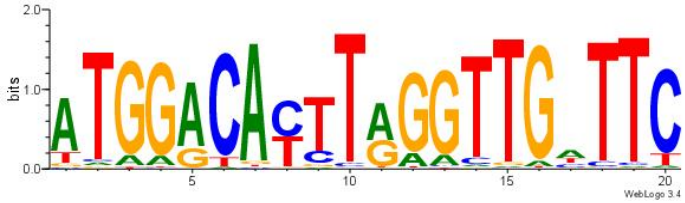

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

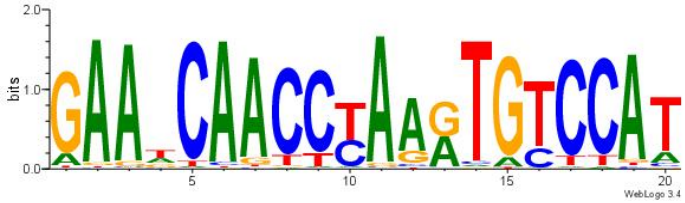

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150117

Alignment:

```
TGGAGAACCTTTATGTCTAG
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

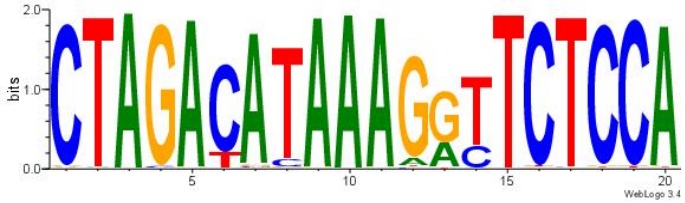

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

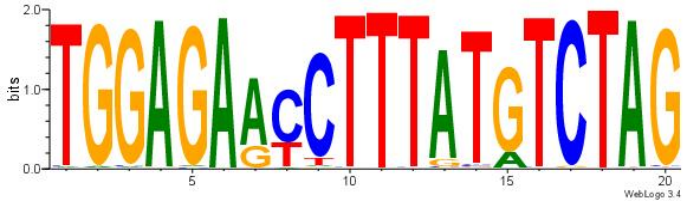

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150448

Alignment:
GCCKCCCCGTCCGGGAGGGA
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

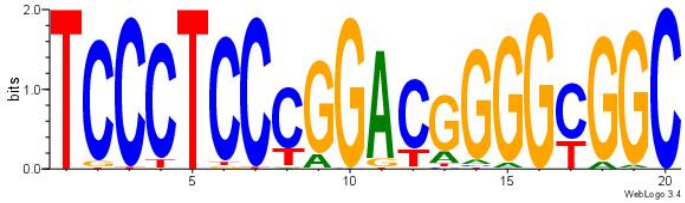

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

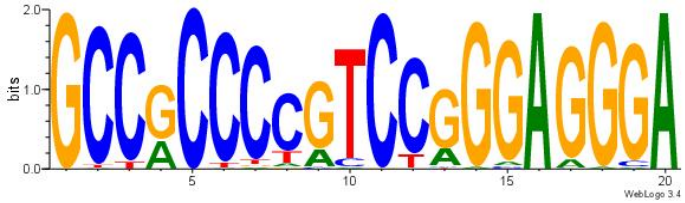

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.15065

Alignment:
AGGTCCTTCAGGAGGTATTC
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

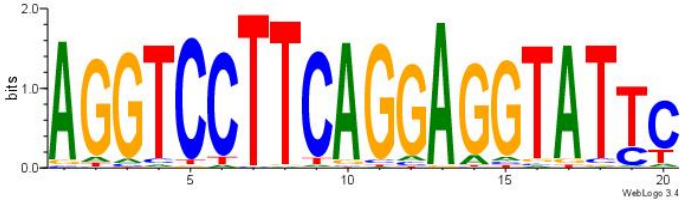

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

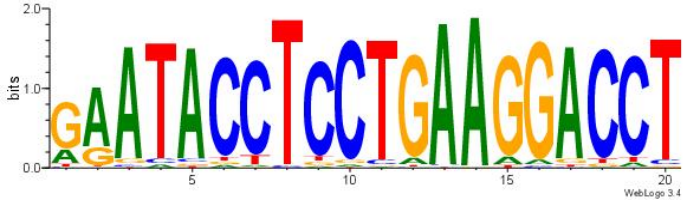

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151477

Alignment:
CCCMKGGCACCCTCAGTCCT
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

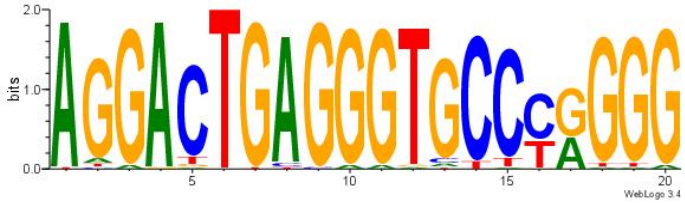

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

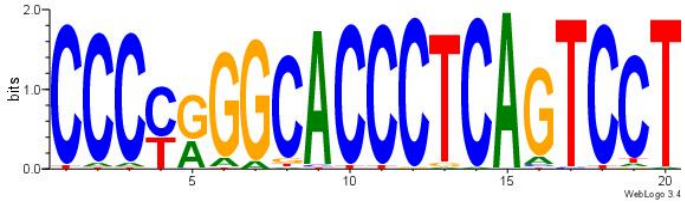

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151712

Alignment:

```
VMATTTAKTGAGCACCTACT
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

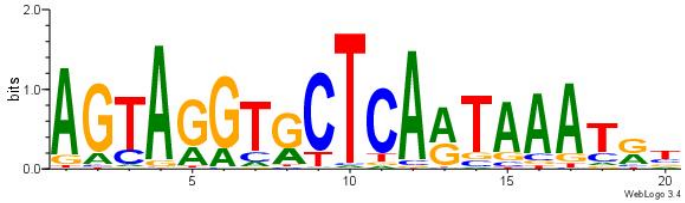

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

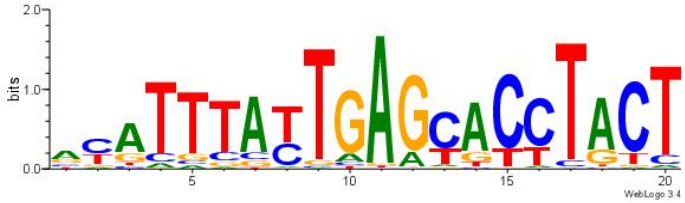

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153119

Alignment:
CTGACTGGGAGACACCTCCC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

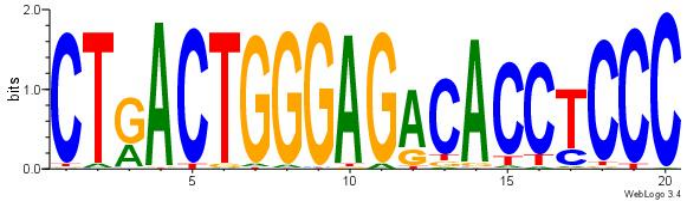

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

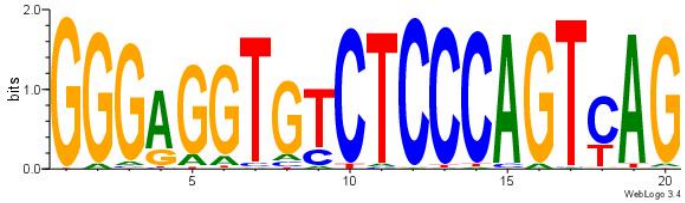

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.153605

Alignment:
TCCAAATGGGAGAAATTGGC
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

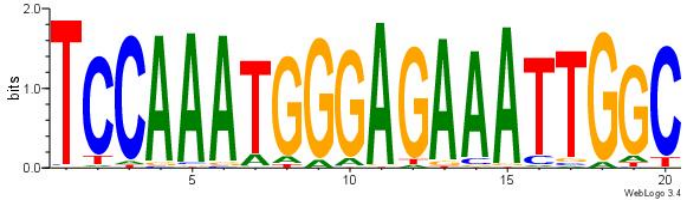

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

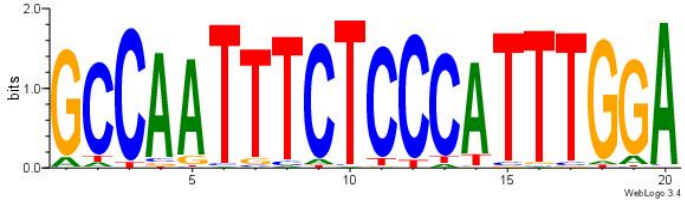

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154313

Alignment:
GACAGGAGATTAACACTGAG
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

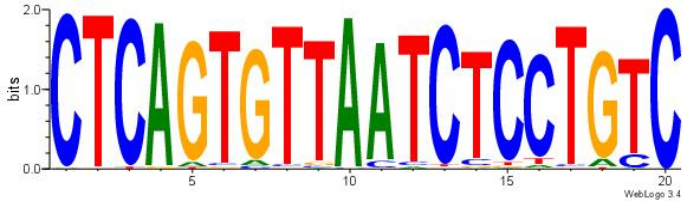

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

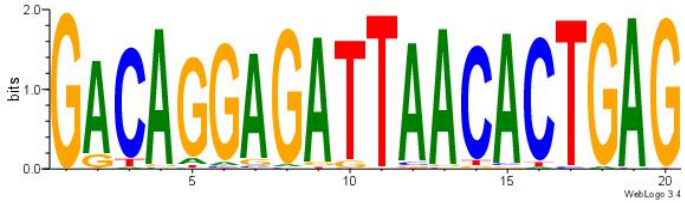

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155559

Alignment:

```
GGTTCATCTCACTAGGGAGT
CRTGAGCCACYGYRCCYGGC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

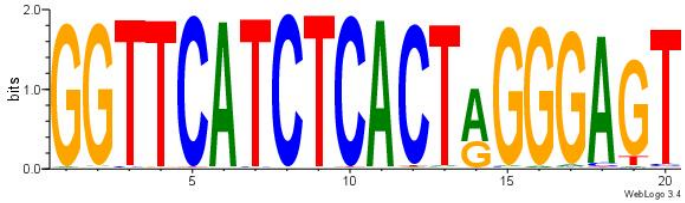

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

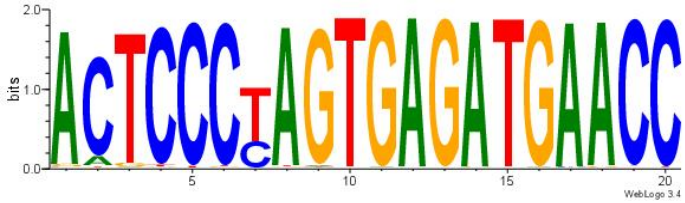

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15622

Alignment:
ATAGGAATGCTTGTGATTTT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

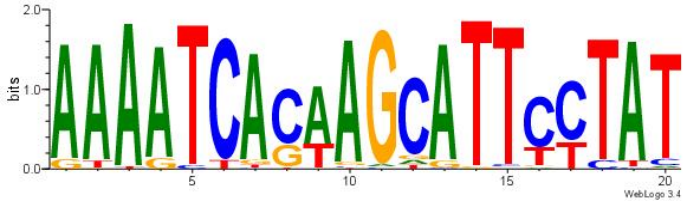

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

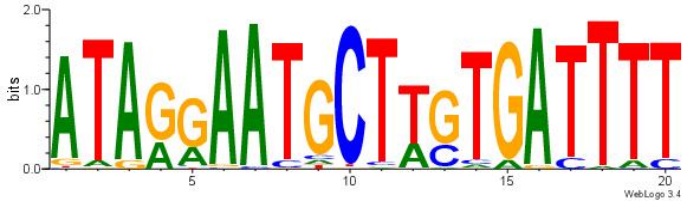

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.15632

Alignment:
CCTGCCATTGCYSAGGCTTG
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

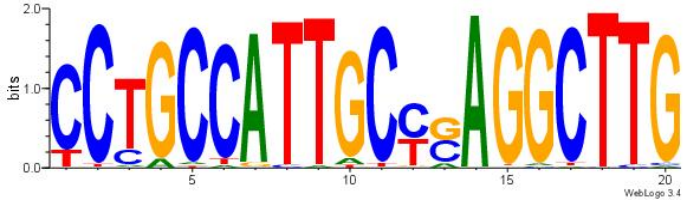

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

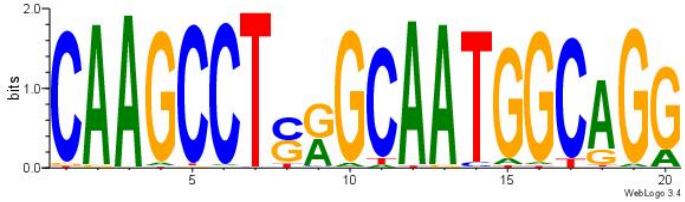

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157332

Alignment:
AGGCCCCAGTGTSTGTTGTT
GCCKGGMKCMGTGGCTCAKG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

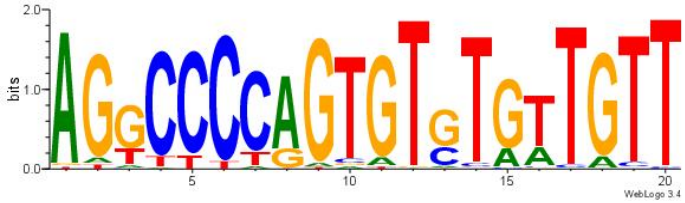

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

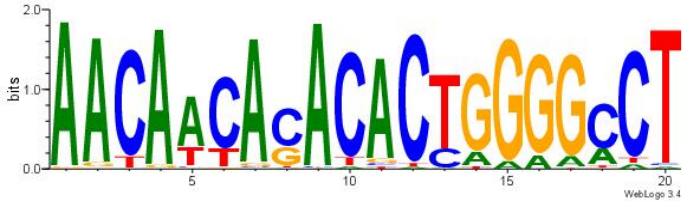

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15829

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
GCCKGGMKCMGTGGCTCAKG
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

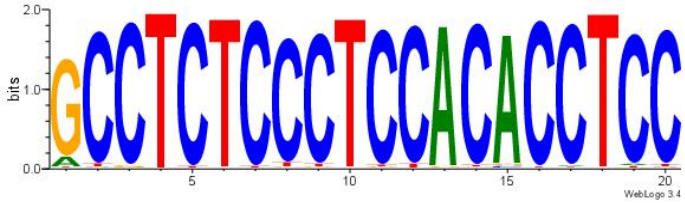

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

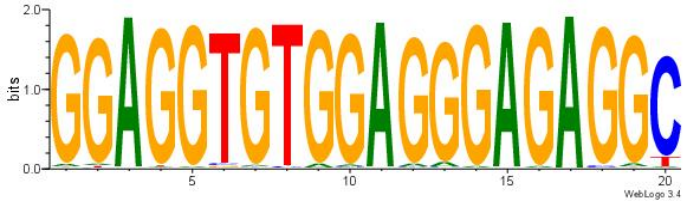

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159195

Alignment:
AGAGCCAAATCATGARTGAA
CRTGAGCCACYGYRCCYGGC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

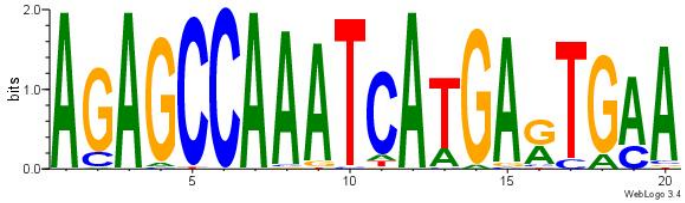

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

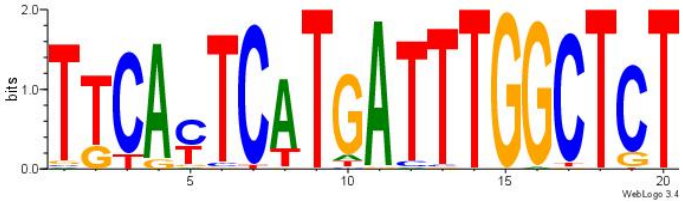

Dataset #: 1 Motif ID: 57 Motif name: Motif 57

Original motif Consensus sequence: AAATATTTATT

Reverse complement motif Consensus sequence: AATAAATATTT

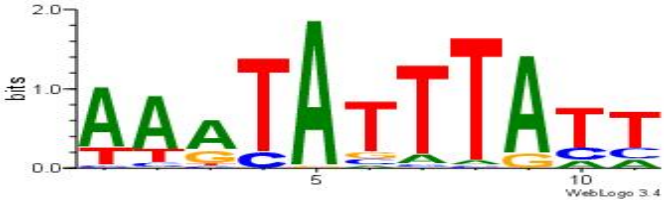

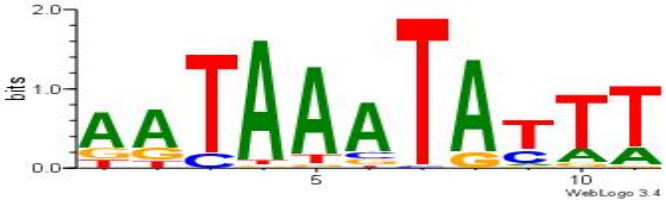

Best Matches for Motif ID 57 (Highest to Lowest)

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0640425

Alignment:

```
ATGGCTGAATAKTATTCCAT
---AATAAATATTT------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

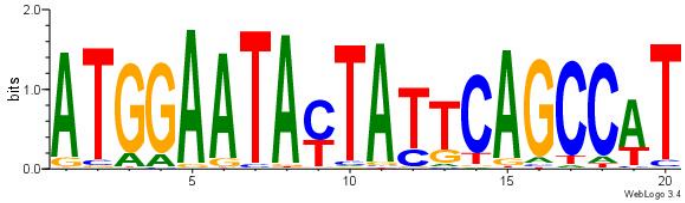

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

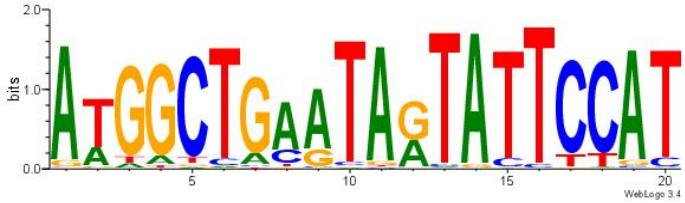

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0653502

Alignment:

```
GCAGCAMTATTCACAATAG
----AAATATTTATT----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

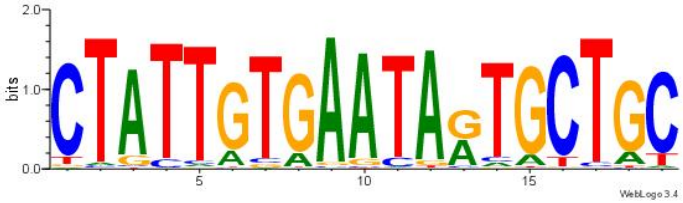

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

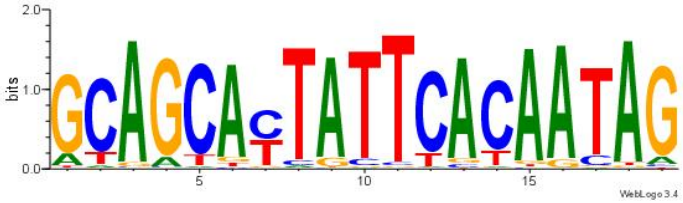

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10

Number of overlap: 11
Similarity score: 0.0659605

Alignment:
AGGTTTGTTACATAGGTAWA
---------AAATATTTATT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

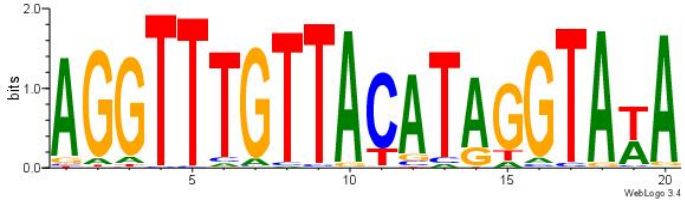

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

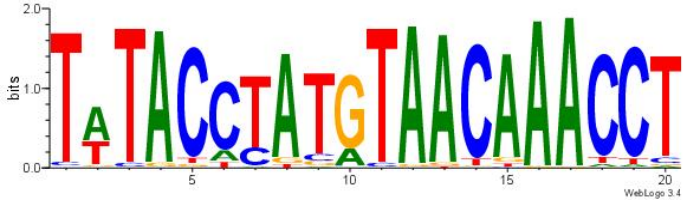

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0663702

Alignment:
TAAAAGACTACAWATTGGGT
------AATAAATATTT---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

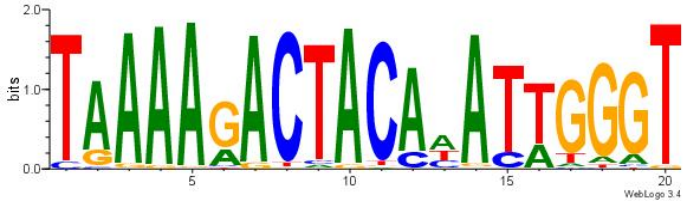

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

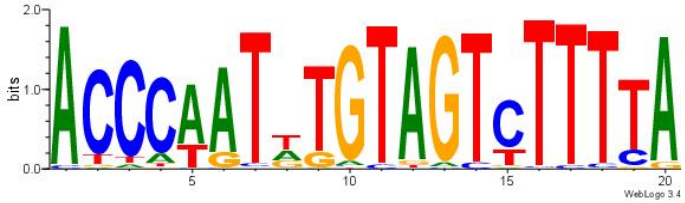

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.066951

Alignment:

```
AGGTATTTCTCCCACC
AAATATTTATT-----
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

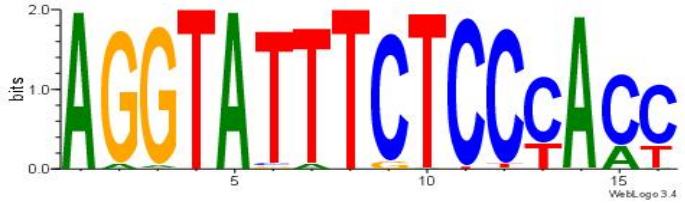

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

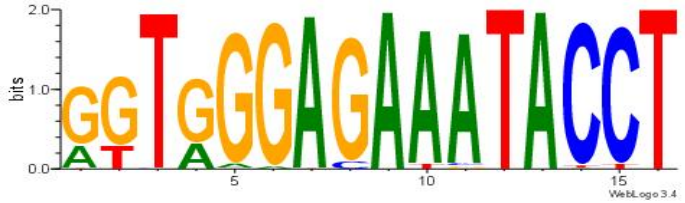

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0676206

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
---AATAAATATTT------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

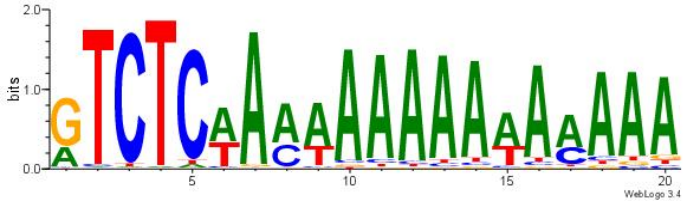

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

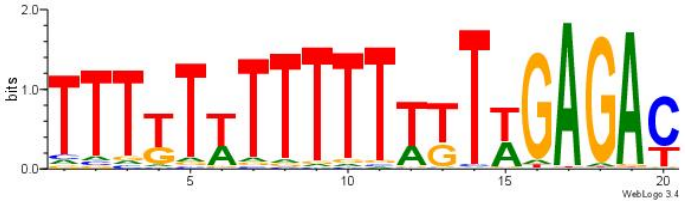

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 11
Similarity score: 0.0691531

Alignment:
TGAGKCAATTAAACCTCTT
-------AATAAATATTT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

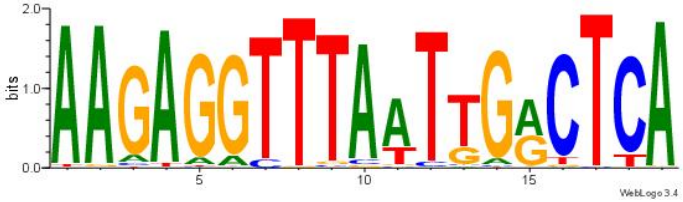

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

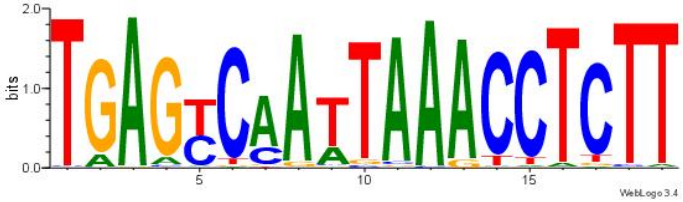

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0705178

Alignment:
TTCAMTCATGATTTGGCTCT
---AATAAATATTT------

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

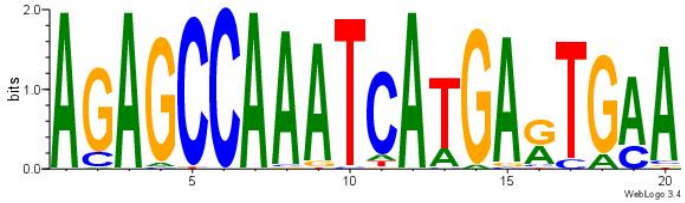

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

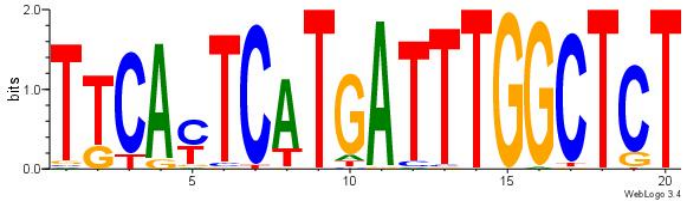

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.070587

Alignment:

```
CCATGTTTATT
AAATATTTATT
```

Original motif Consensus sequence: AATAAACATGG

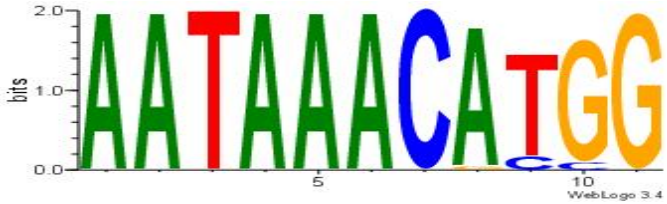

Reverse complement motif Consensus sequence: CCATGTTTATT

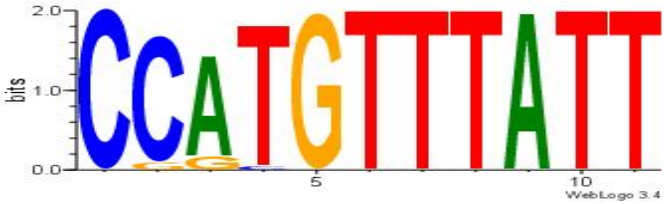

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0710381

Alignment:

```
CAAAGTCTTAACTCATT
--AAATATTTATT----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

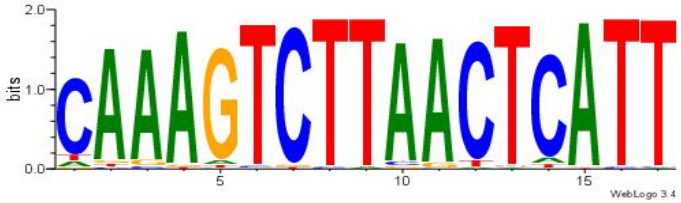

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 11
Similarity score: 0.0713416

Alignment:
ATTGGTGTATTTACAATCCC
----AAATATTTATT-----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

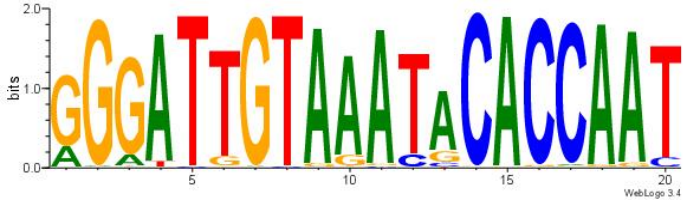

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0717986

Alignment:
CTGGCCCTCAATGGTTAAAC
-----AATAAATATTT----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

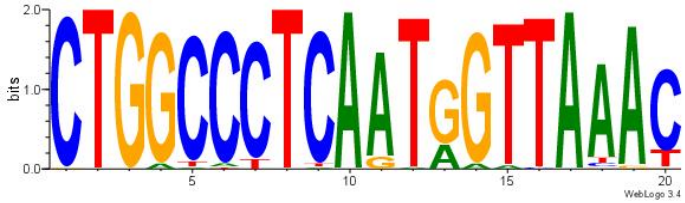

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

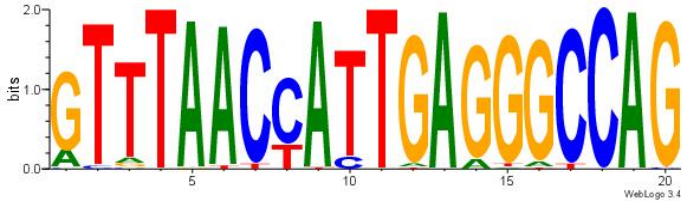

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0721335

Alignment:

```
AAAATGTGGTAYATAYAYAC
--------AAATATTTATT-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

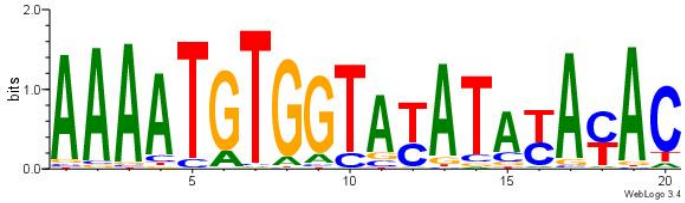

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

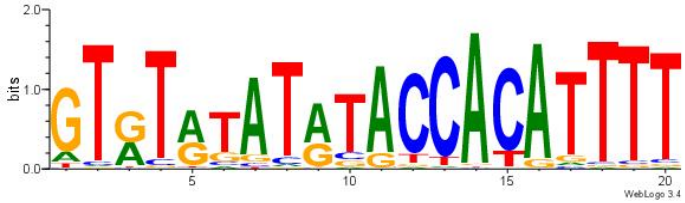

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0723356

Alignment:

```
CTAGACATAAAGGTTCTCCA
-----AATAAATATTT----
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

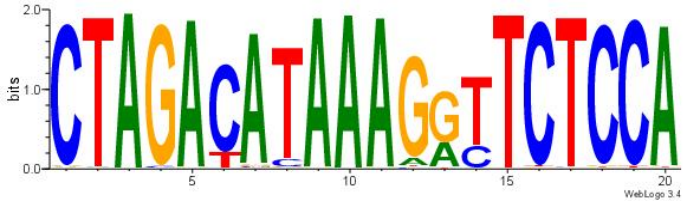

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

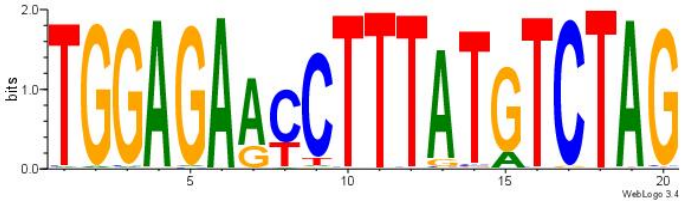

Dataset #:	1
Motif ID:	79
Motif name:	Motif 79
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.072596

Alignment:
ATTCATTCATT
AAATATTTATT

Original motif Consensus sequence: AATGAATGAAT

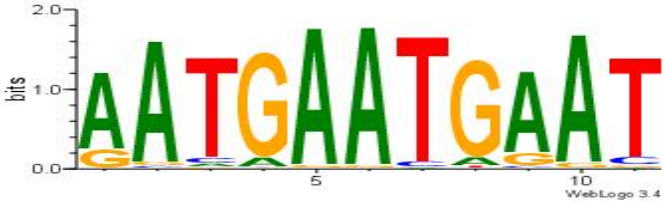

Reverse complement motif Consensus sequence: ATTCATTCATT

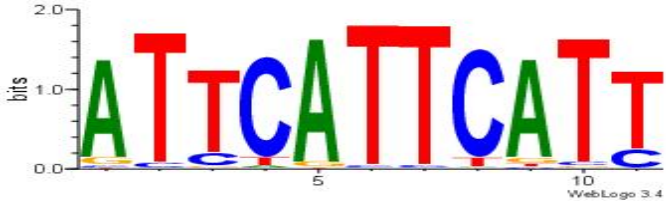

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0730618

Alignment:
GTTGTGAGGATTAAATGAG
-----AAATATTTATT---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

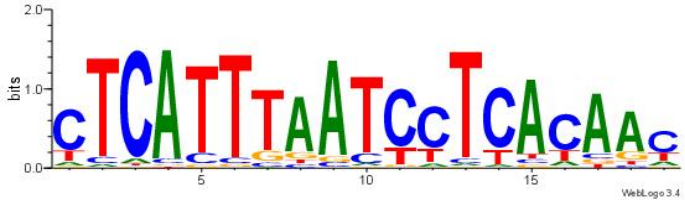

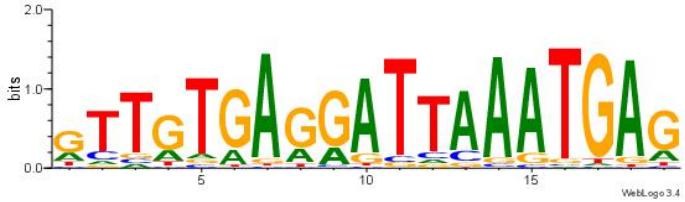

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0731123

Alignment:

```
GGGAGGGATATATTAGC
---AAATATTTATT---
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

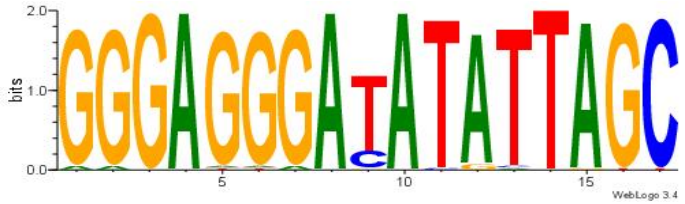

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

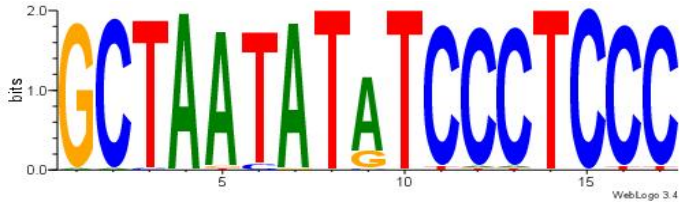

Dataset #: 1

Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0739443

Alignment:

```
TAGTTTTTAACAA
AAATATTTATT--
```

Original motif Consensus sequence: TAGTTTTTAACAA

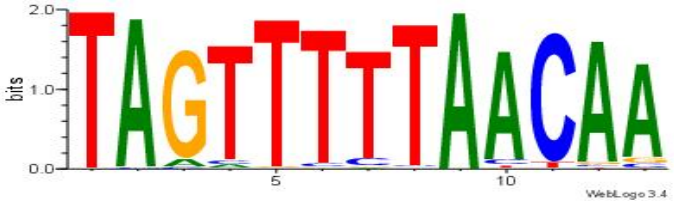

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

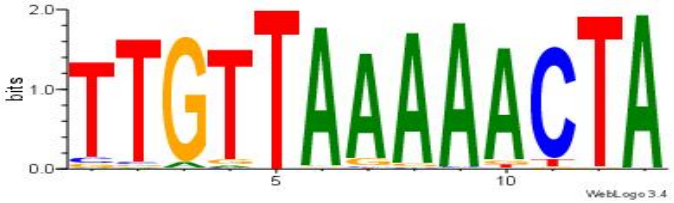

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0748024

Alignment:
AGTAGGTGCTCARTAAATRB
-------AATAAATATTT--

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

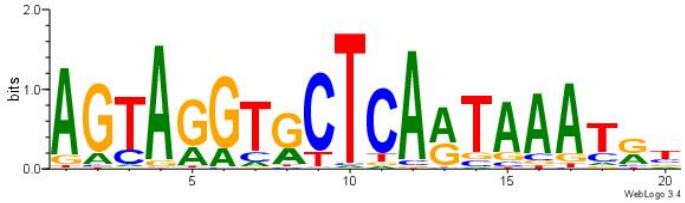

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

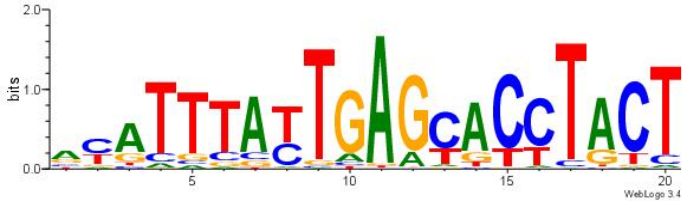

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0748808

Alignment:
GAGCTTTAAGATTT
---AATAAATATTT

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

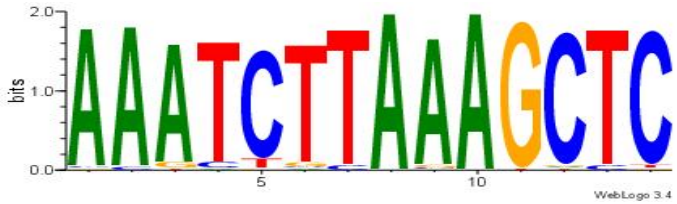

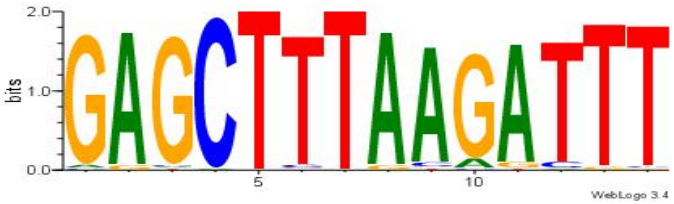

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0768848

Alignment:

```
AAAATCACAAGCATTCCTAT
--------AAATATTTATT-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

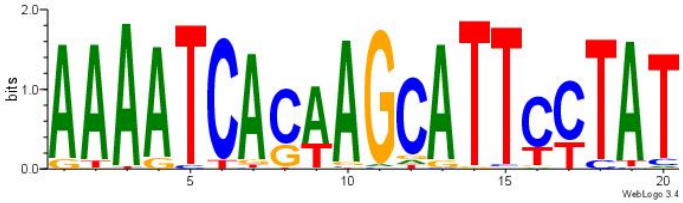

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

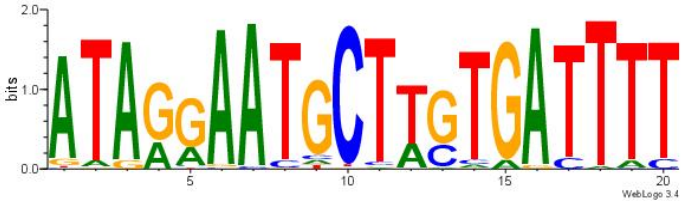

Dataset #: 1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.077399

Alignment:

```
ATAAAAACTTGCTGGTTTT
--AAATATTTATT------
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

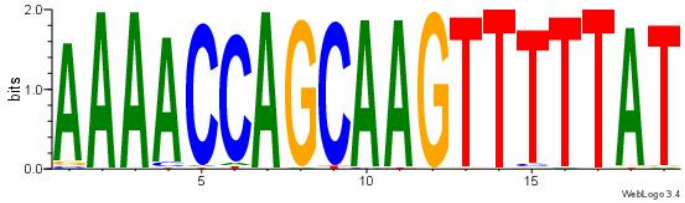

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

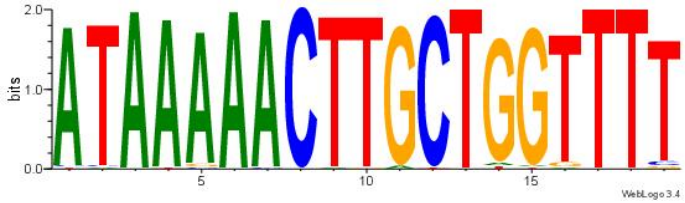

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0776283

Alignment:
GCTCTCAATTGGTCATT
------AAATATTTATT

Original motif Consensus sequence: AATGACCAATTGAGAGC

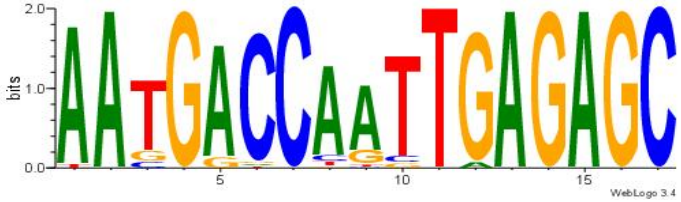

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

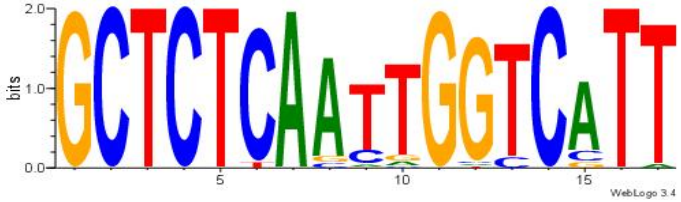

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0780502

Alignment:
AGGTCCTTCAGGAGGTATTC
--------AAATATTTATT-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

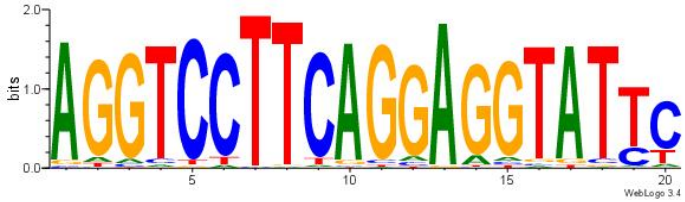

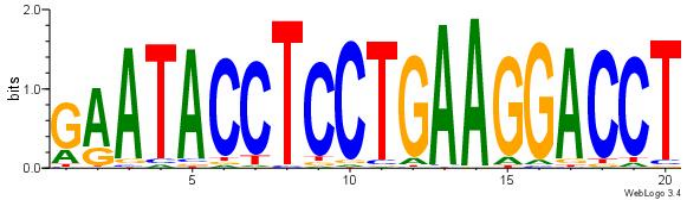

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0784055

Alignment:

```
ACACATCACAAAGCAGTTTC
-------AATAAATATTT--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

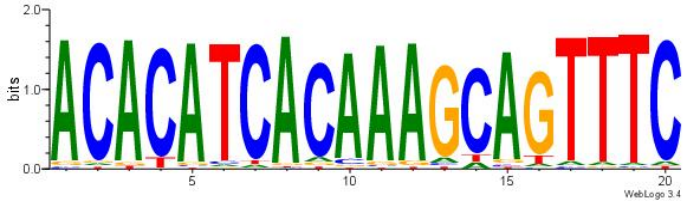

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

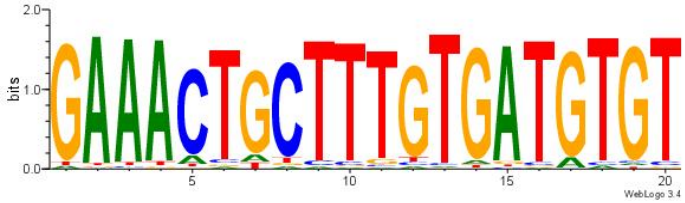

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0792017

Alignment:

```
AATGAKATCATGTCYTTTGC
AAATATTTATT---------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

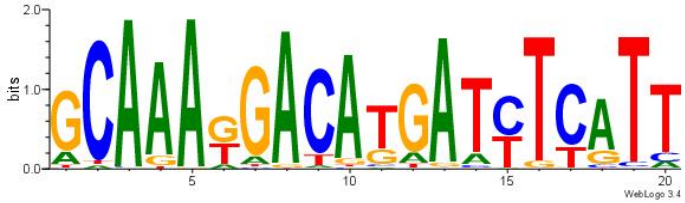

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

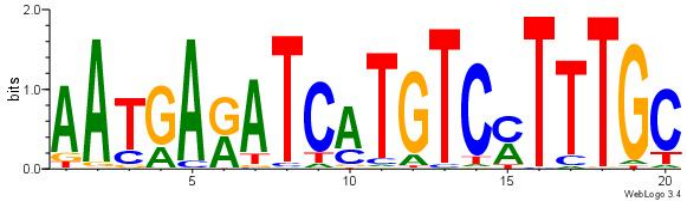

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0798861

Alignment:
AGGCCCCAGTGTSTGTTGTT
------AAATATTTATT---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

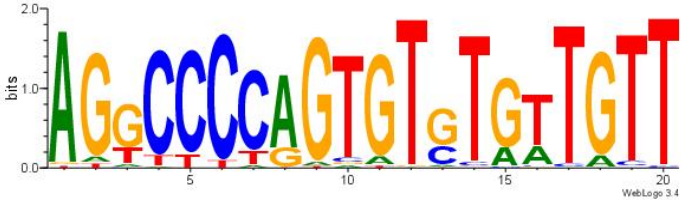

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

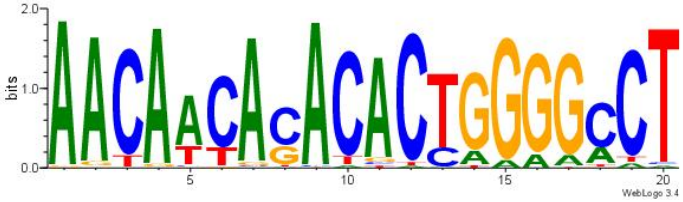

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0815975

Alignment:
TAGTGGTGATTTSTGAGAT
AAATATTTATT--------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

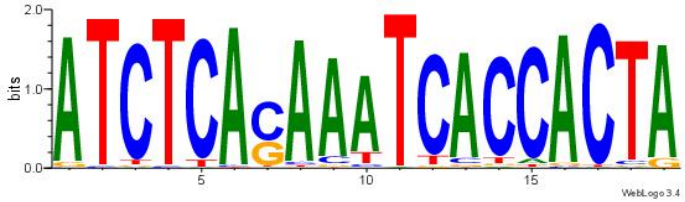

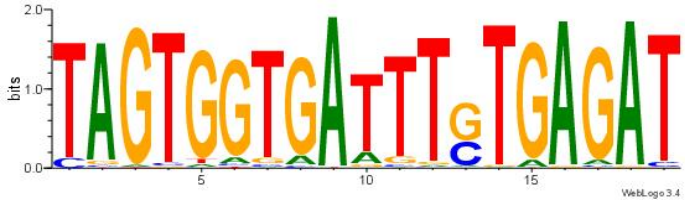

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0818577

Alignment:

```
CAAGTTGACACATAAAATTA
---------AATAAATATTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

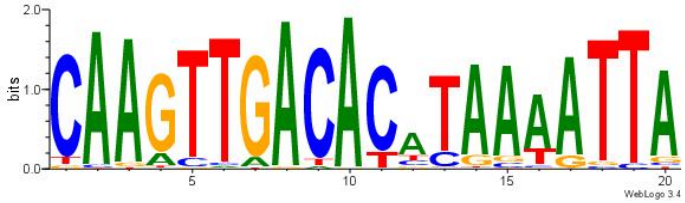

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

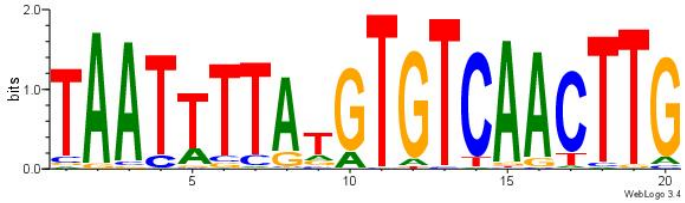

Dataset #: 1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0825023

Alignment:

```
GATACAAAATCAATGTR
---AATAAATATTT---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

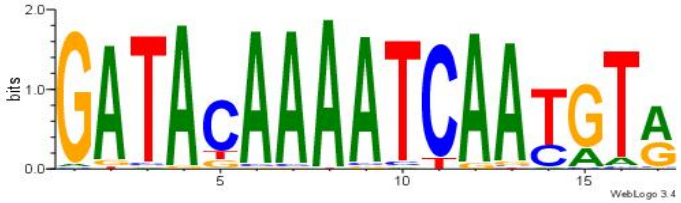

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

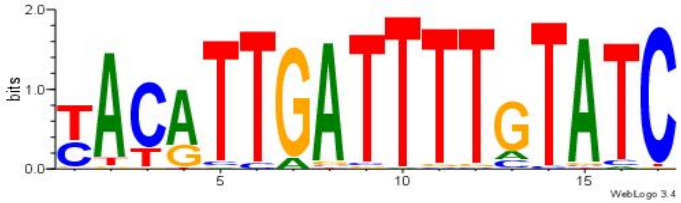

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0825244

Alignment:
TTTAACTCTGTGAG
AATAAATATTT---

Original motif Consensus sequence: CTCACAGAGTTAAA

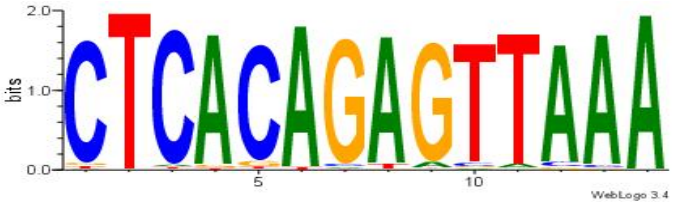

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

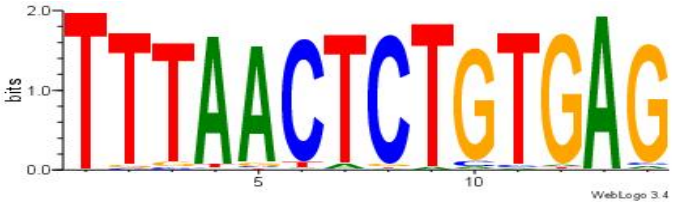

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.082949

Alignment:
CCCACACCCTTATTA
---AAATATTTATT-

Original motif Consensus sequence: CCCACACCCTTATTA

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

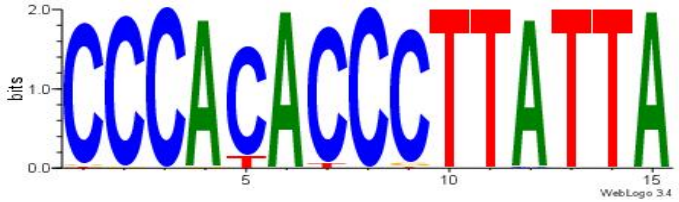

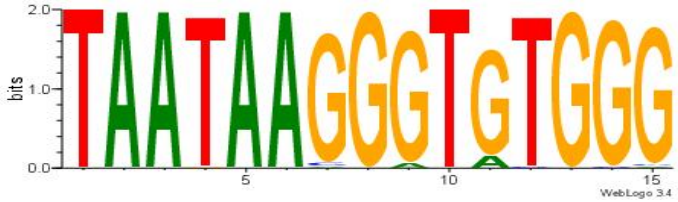

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0837432

Alignment:

```
AAGGGACATTKGAG
AATAAATATTT---
```

Original motif Consensus sequence: AAGGGACATTKGAG

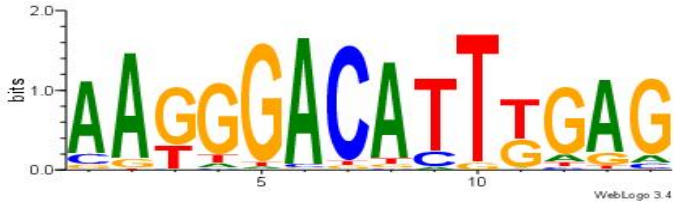

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

Dataset #:	1
Motif ID:	194

Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0849005

Alignment:

```
CAAGGGTATAYGAGTAGCTG
--------AATAAATATTT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

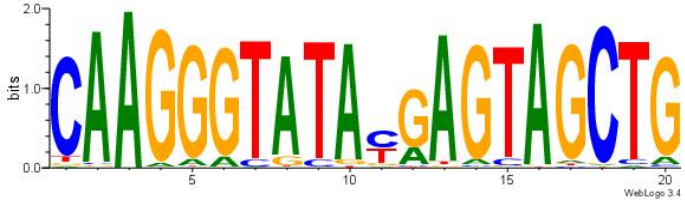

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

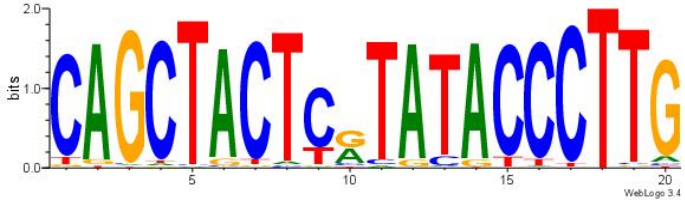

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0850872

Alignment:
TACCTGAGACTGGGTAATTT
--------AATAAATATTT-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

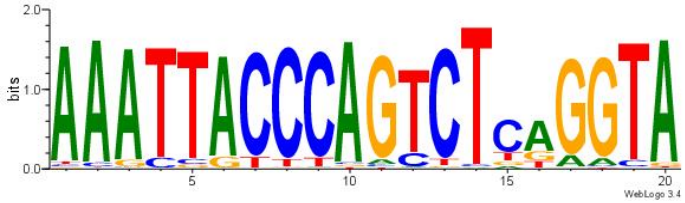

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

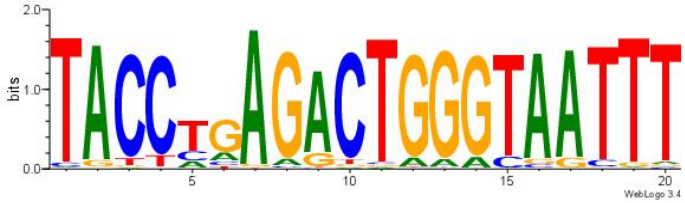

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0858524

Alignment:
CAAAGGCATAAGAATGAT
------AATAAATATTT-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence:
ATCATTCTTATGCCTTTG

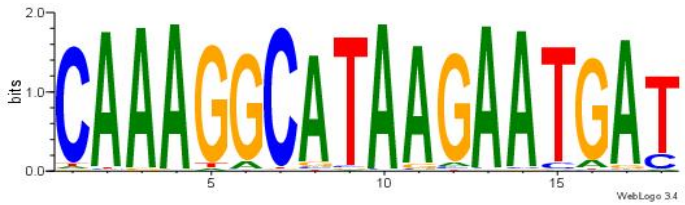

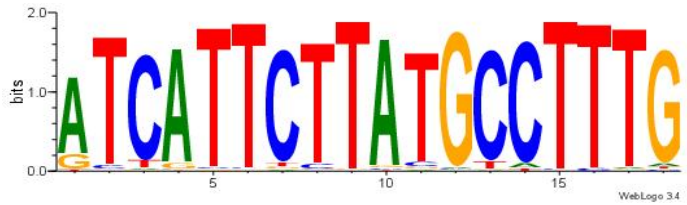

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0868132

Alignment:

```
KKCACCTTGATCTTGGACTT
-AAATATTTATT--------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

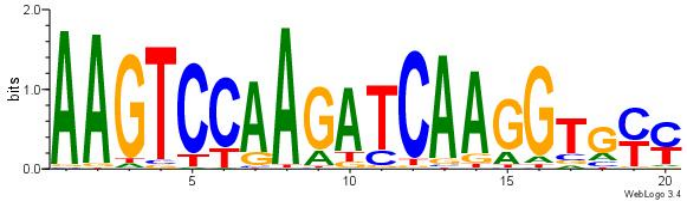

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

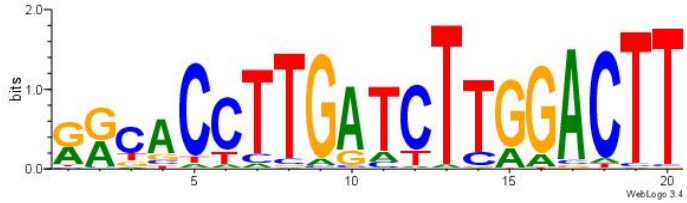

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0869092

Alignment:

```
ATGGACAYTTRGGTTGHTTC
--AAATATTTATT-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

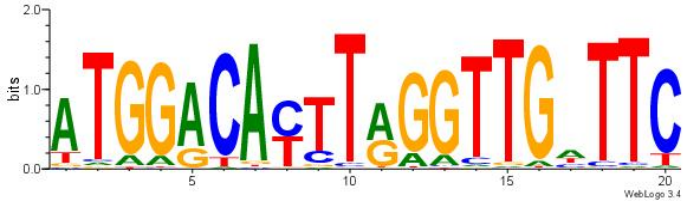

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

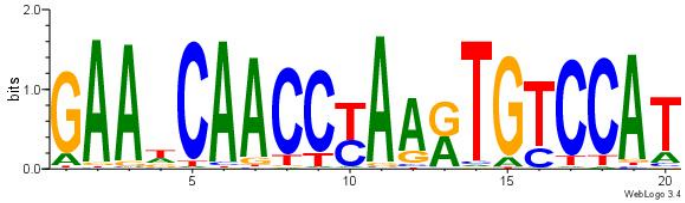

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0874022

Alignment:
CTCAGTGTTAATCTCCTGTC
--AAATATTTATT-------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

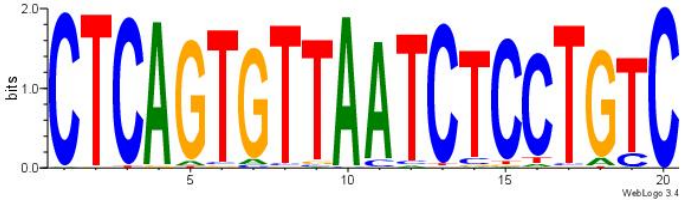

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

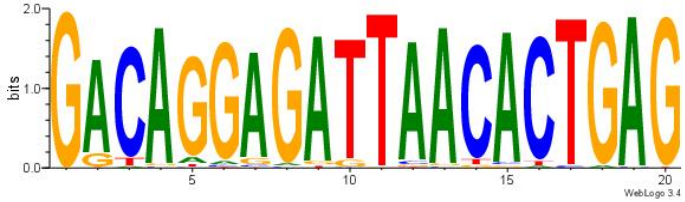

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0880438

Alignment:
ATTCAASATGAGATTTGGG
AATAAATATTT--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

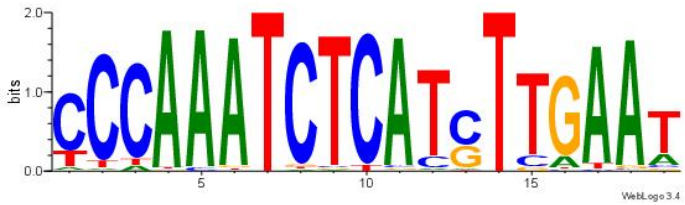

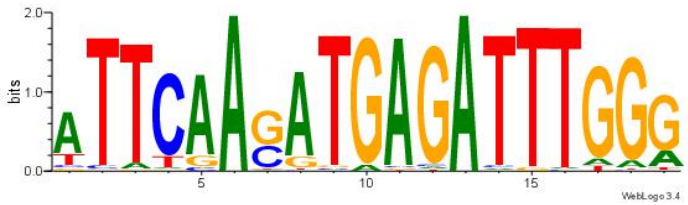

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0880556

Alignment:

```
TCCTATGAGAATCTAATG
------AAATATTTATT-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

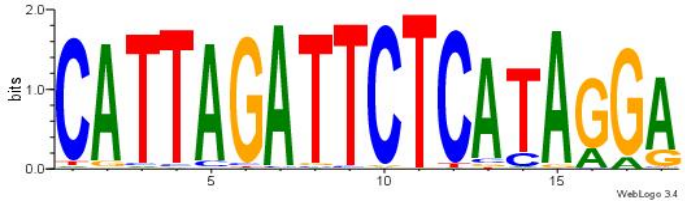

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

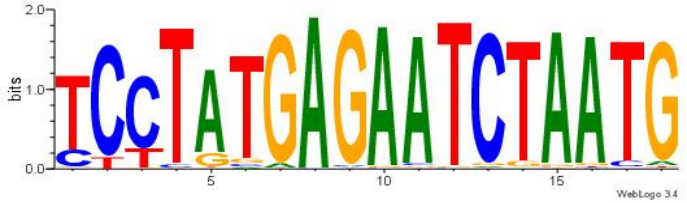

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0881102

Alignment:

```
CACCAGGAGATTATATCCCR
AATAAATATTT---------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

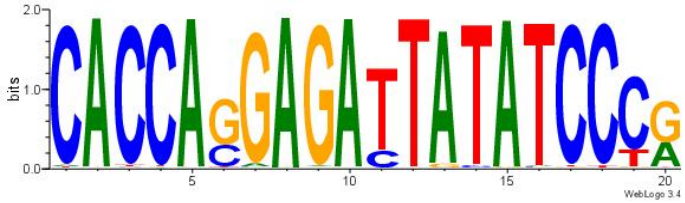

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

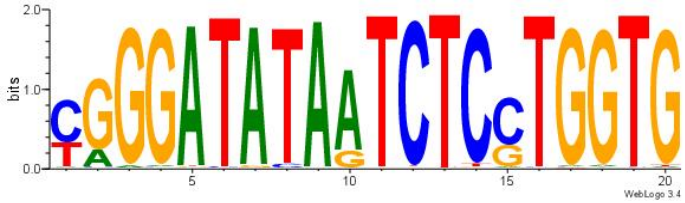

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0884074

Alignment:
GCACATGTAYCCYAGAACTT
AAATATTTATT---------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

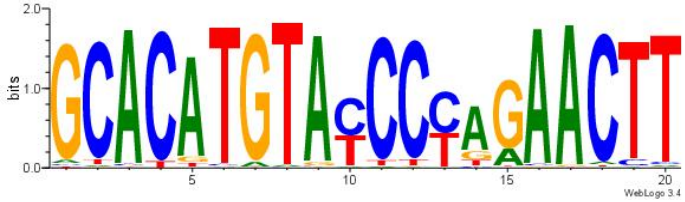

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

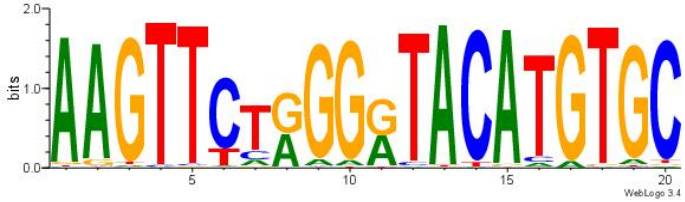

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0885384

Alignment:
ACACACAYACACACACACA
--------AAATATTTATT

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

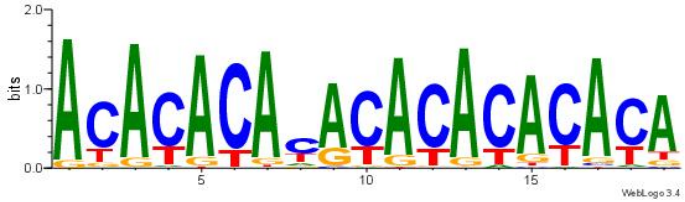

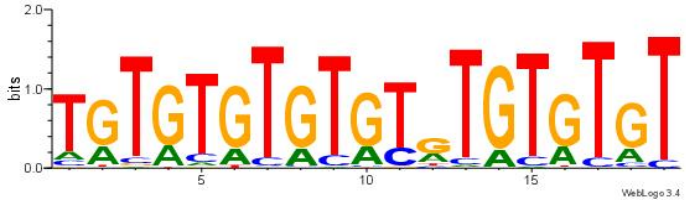

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0885514

Alignment:

```
TTTCTTTTCCTT
AAATATTTATT-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

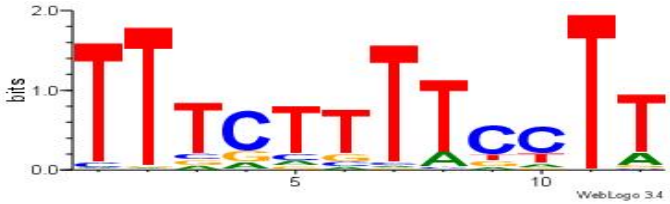

Dataset #:	1
Motif ID:	356

Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0888175

Alignment:

```
AATTAAAAGACACAGACTG
AATAAATATTT--------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

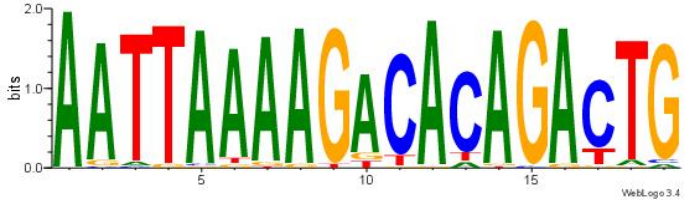

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

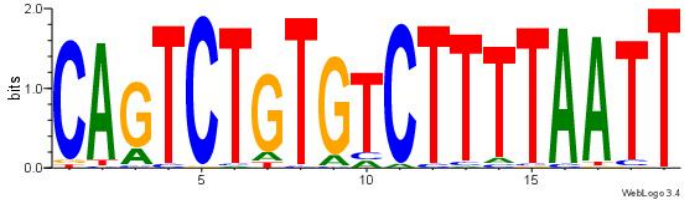

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0890699

Alignment:
GTTATTAATTGGCCTAATTT
--AAATATTTATT-------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

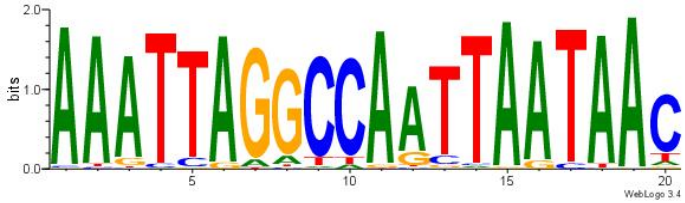

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0891787

Alignment:
AGTTCTTAAAGATGGT
----AATAAATATTT-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence:
ACCATCTTTAAGAACT

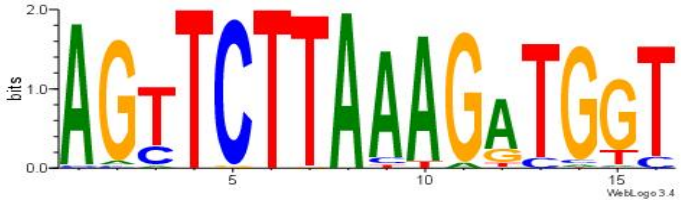

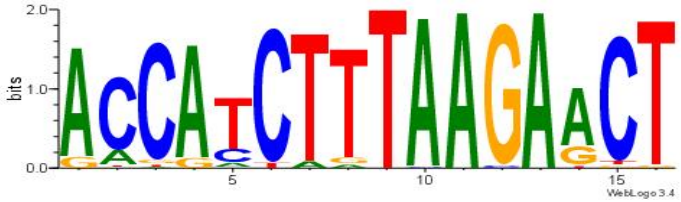

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0892584

Alignment:

```
AGTGAGAACATRYRRTRTTT
---------AATAAATATTT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

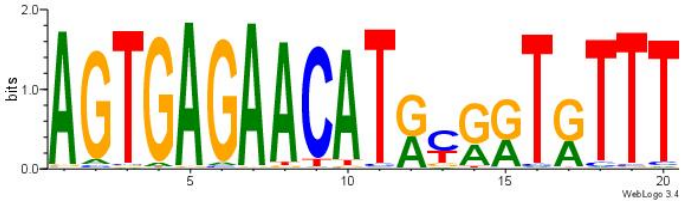

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

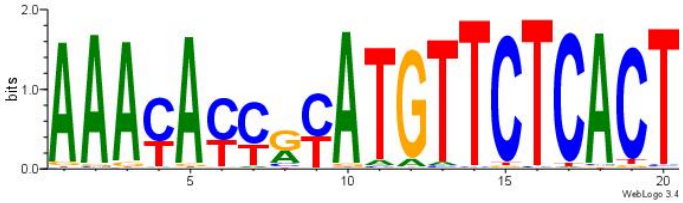

Dataset #: 1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897296

Alignment:

```
AAYRGACTAATACA
-AAATATTTATT--
```

Original motif Consensus sequence: AAYRGACTAATACA

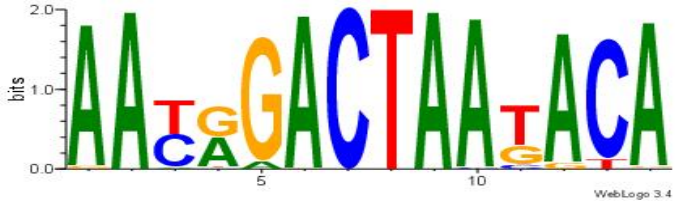

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

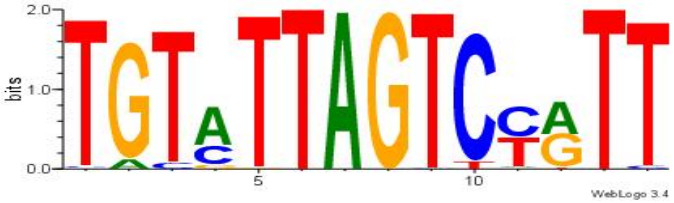

Dataset #: 1 Motif ID: 58 Motif name: Motif 58

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

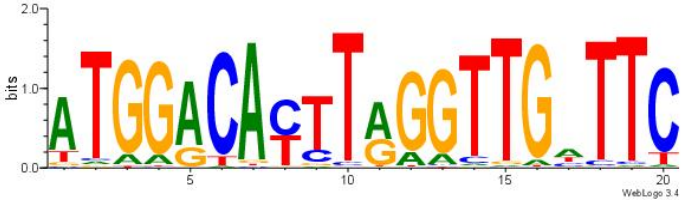

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

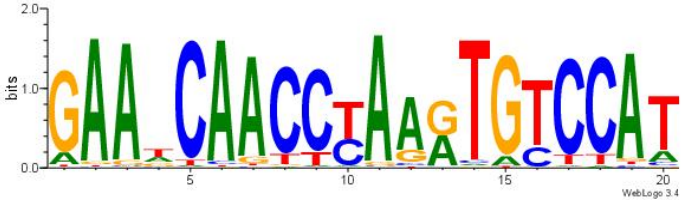

Best Matches for Motif ID 58 (Highest to Lowest)

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.107048

Alignment:
CTAGACATAAAGGTTCTCCA
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

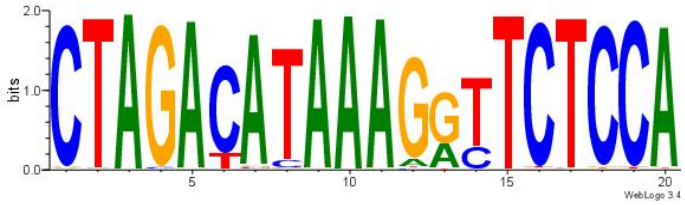

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

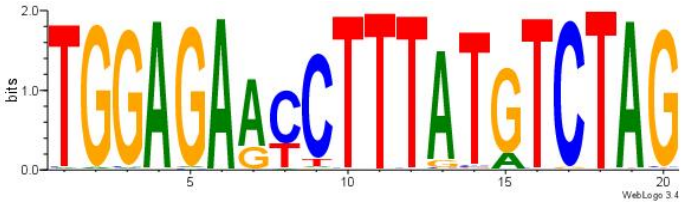

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.10886

Alignment:
GTTATTAATTGGCCTAATTT
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

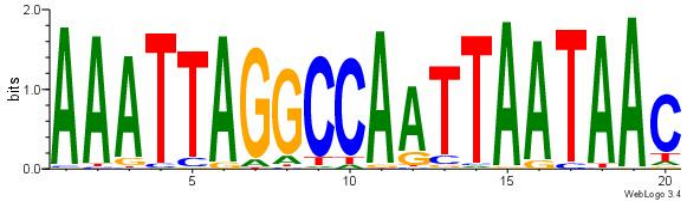

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111911

Alignment:
CTGGGCTCCTGAGTCTGGTG
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

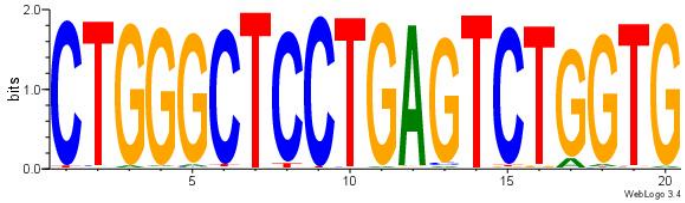

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

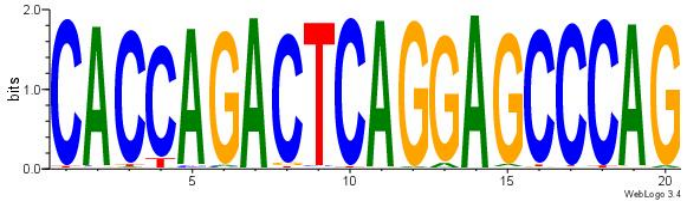

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.111988

Alignment:

```
ATGGAATAYTATTCAGCCAT
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

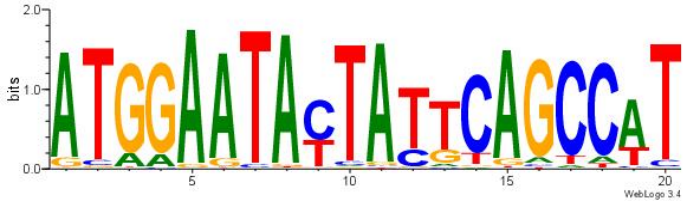

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

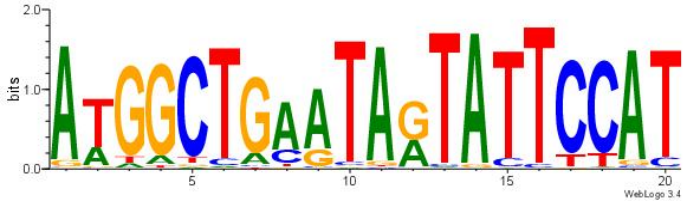

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112726

Alignment:

```
ATTGATMKCCAGGGTTGATT
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

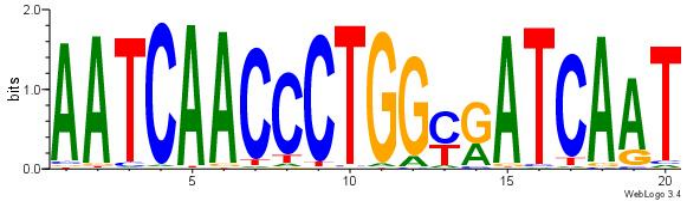

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

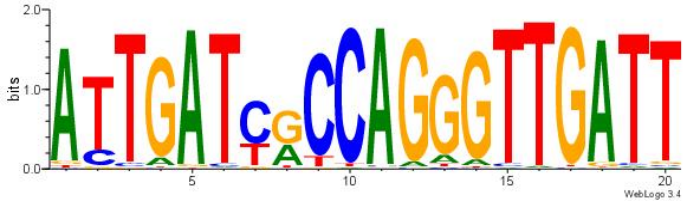

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.114356

Alignment:
KCCGGGCCTTAGCTGCCTTC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

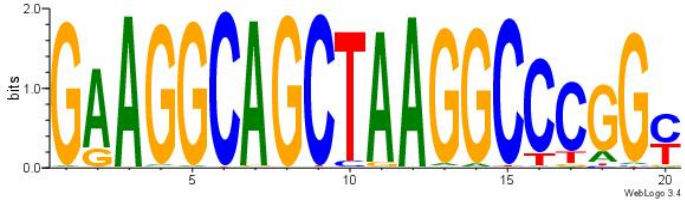

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

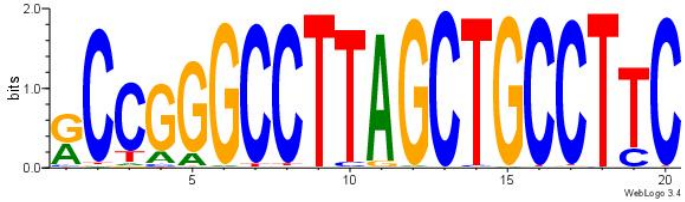

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.117116

Alignment:
ATAGGAATGCTTGTGATTTT
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

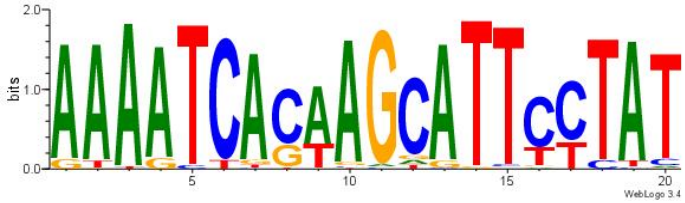

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

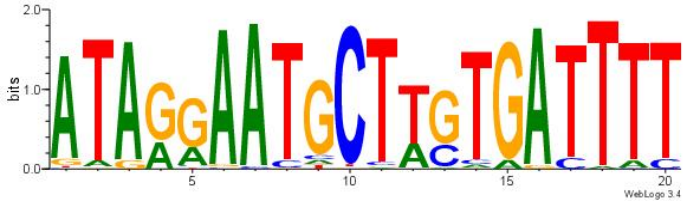

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119149

Alignment:

```
GTKTMTATMTACCACATTTT
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

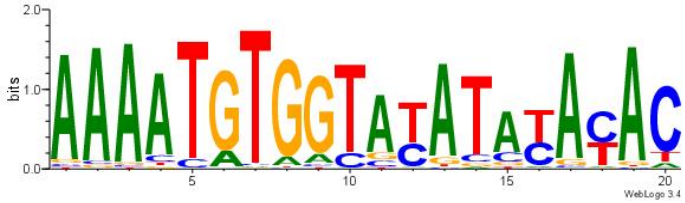

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

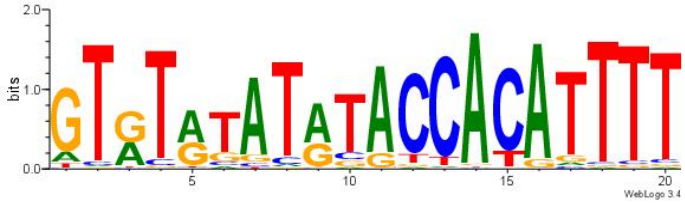

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119376

Alignment:

```
CAAGCCTSKGCAATGGCAGG
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

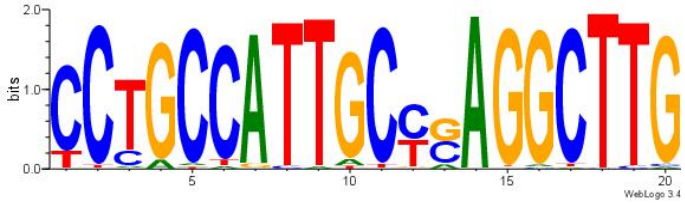

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

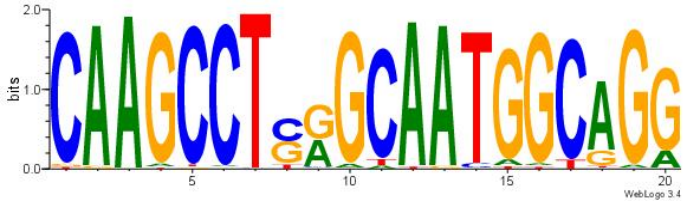

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.119866

Alignment:
AAAMAMMKMATGTTCTCACT
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

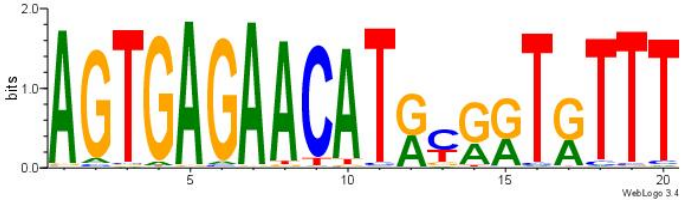

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

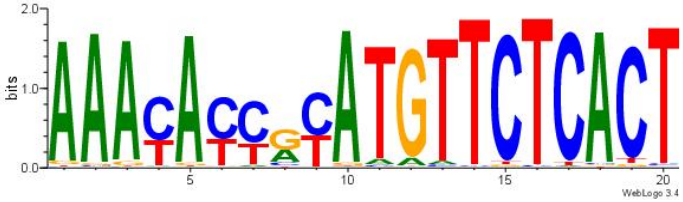

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.12062

Alignment:
AACAACASACACTGGGGCCT
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

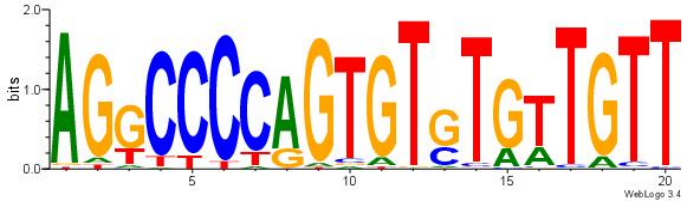

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

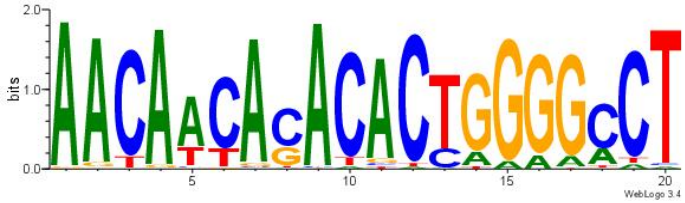

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121398

Alignment:

```
TTGTCCCACTGGAAGGTCTT
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

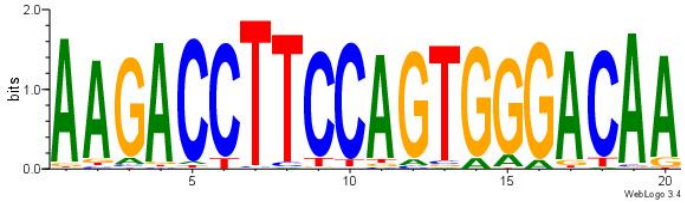

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

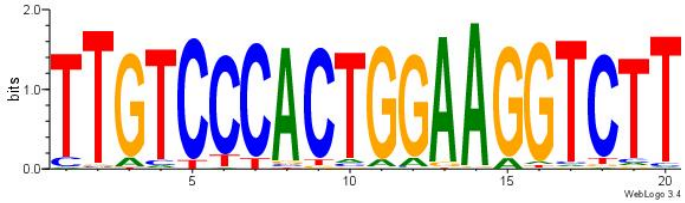

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121757

Alignment:

```
AGGTCCTTCAGGAGGTATTC
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

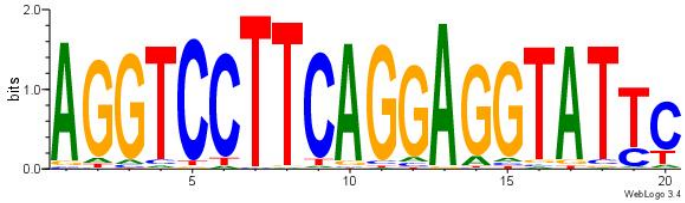

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

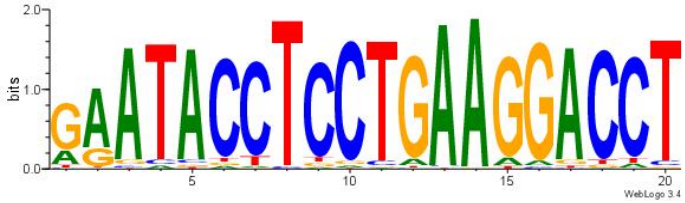

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.121832

Alignment:
TTTYTWTTTTTTYTWGAGAC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

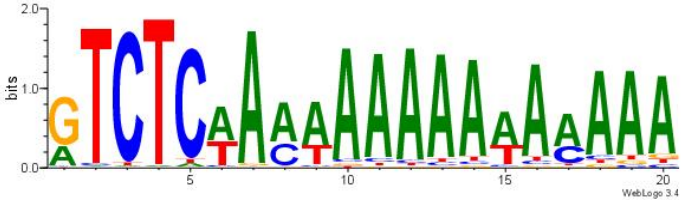

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

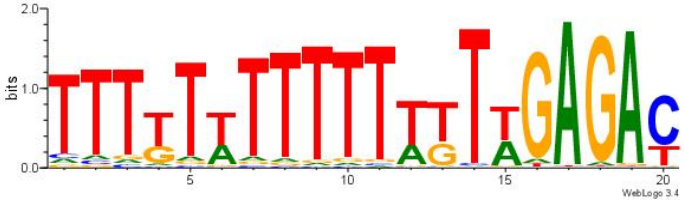

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.122102

Alignment:
ACACATCACAAAGCAGTTTC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

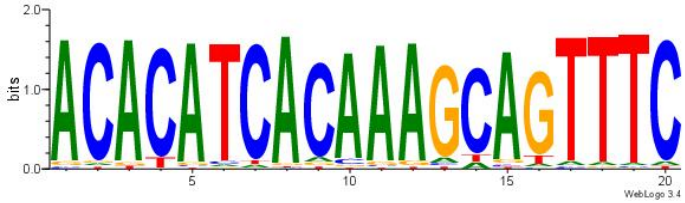

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

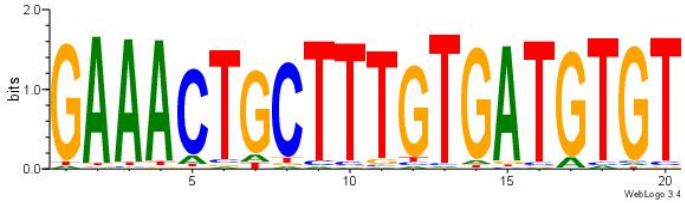

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122198

Alignment:

```
GTTTAACCATTGAGGGCCAG
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

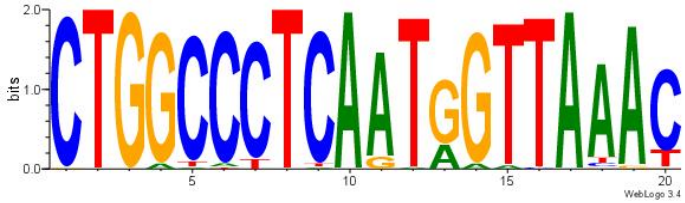

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

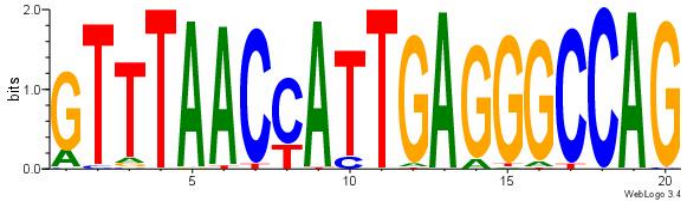

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123649

Alignment:
GCTCCACCCAGTTCGAGCTT
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

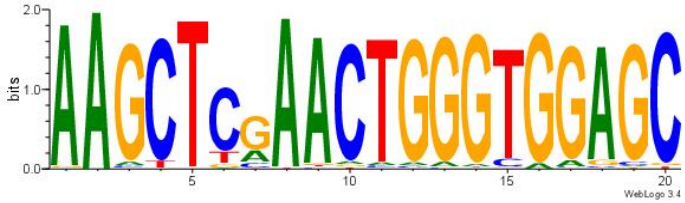

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

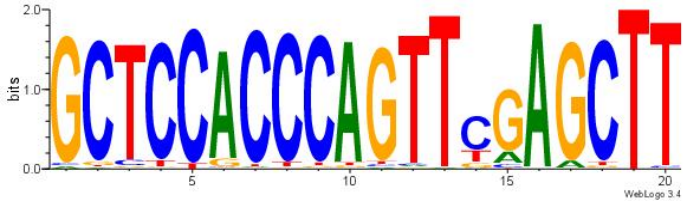

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.124396

Alignment:
AATGAKATCATGTCYTTTGC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

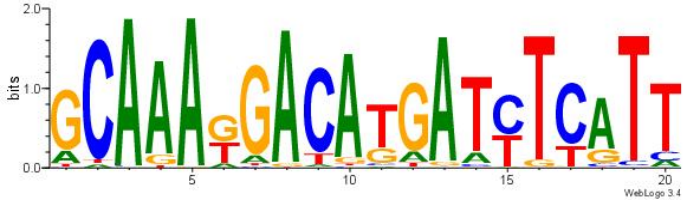

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

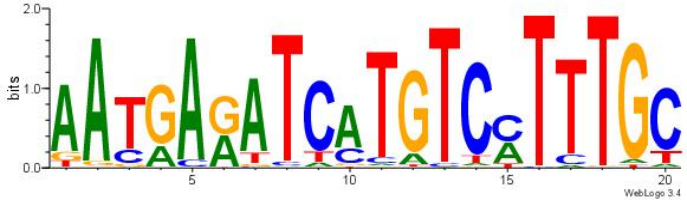

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.124656

Alignment:
ACCKTCGCGGTGAGTGTTAC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

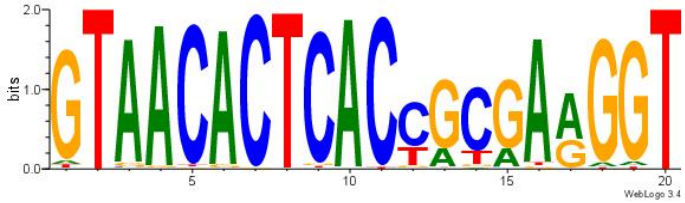

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

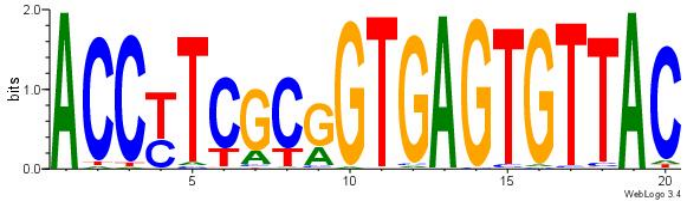

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126005

Alignment:

```
GTGCCAGGCACTGTKCTARG
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

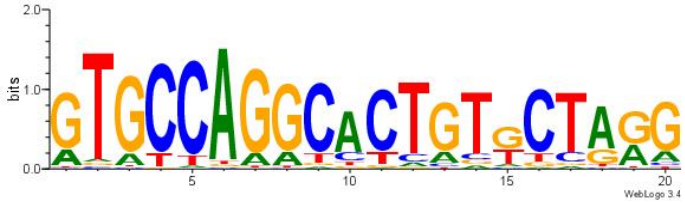

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

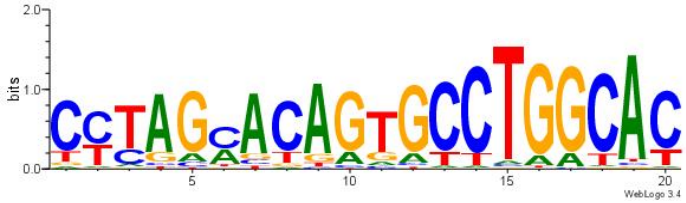

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126224

Alignment:
TYTGTCMTTTTGTGACTGGC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

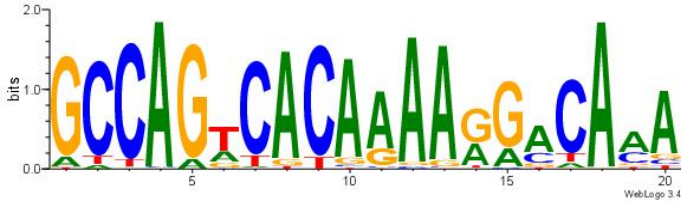

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

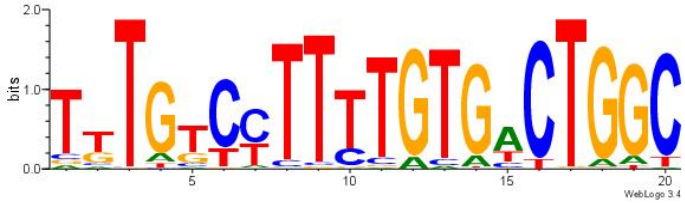

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.127502

Alignment:
ACTCCCTAGTGAGATGAACC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

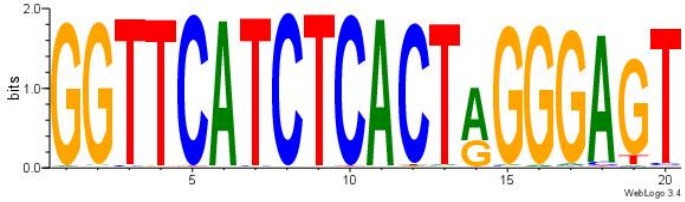

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

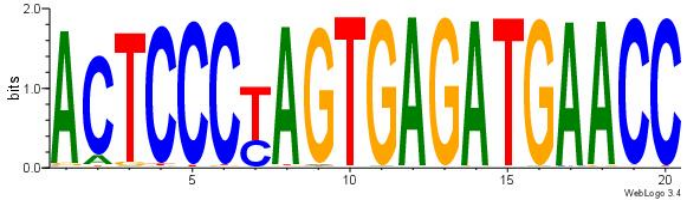

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128064

Alignment:
KKCACCTTGATCTTGGACTT
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

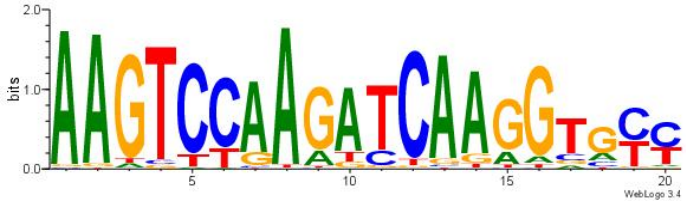

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

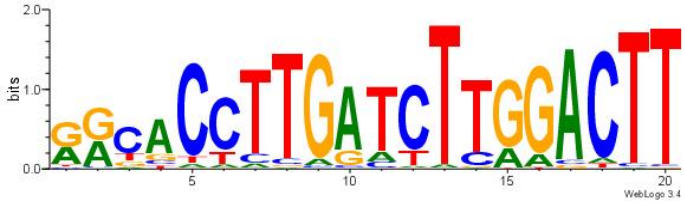

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128771

Alignment:

```
CTGGGCRACAGAGYRAGACY
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

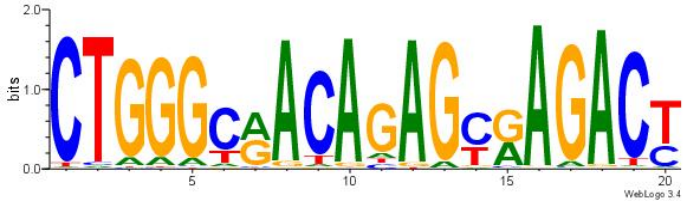

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

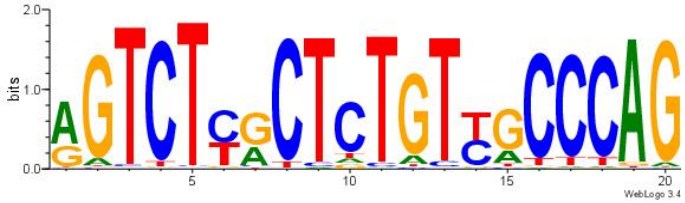

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128925

Alignment:
ACCCAATWTGTAGTCTTTTA
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

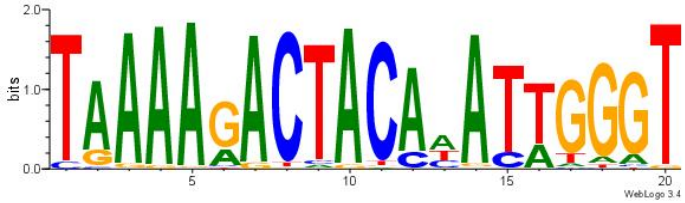

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

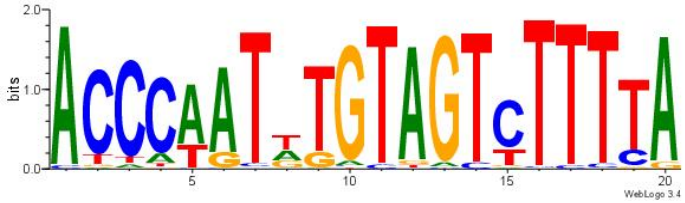

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.129096

Alignment:
TACCTGAGACTGGGTAATTT
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

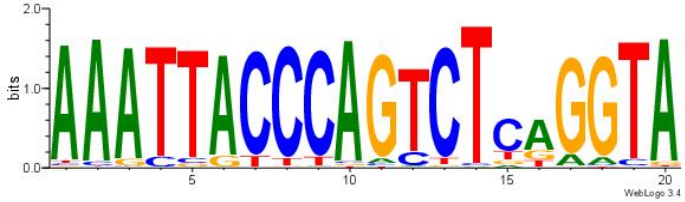

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

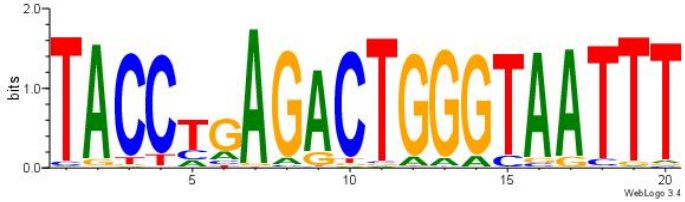

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131386

Alignment:
ATGATCCAGCAATYCCACTH
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

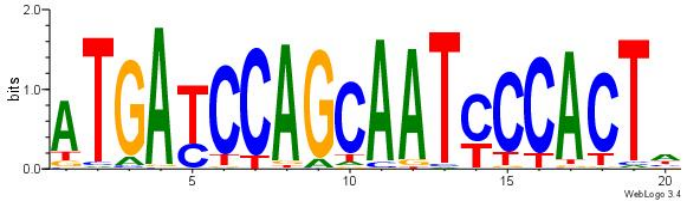

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

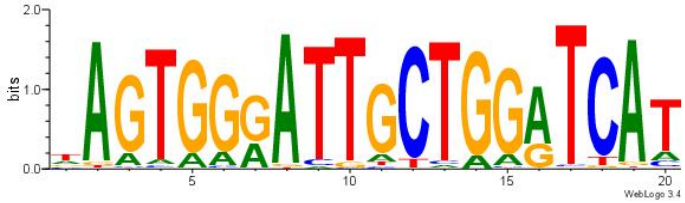

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1315

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

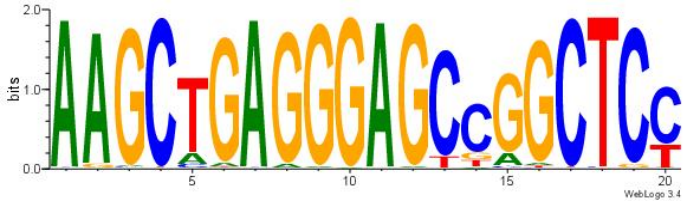

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

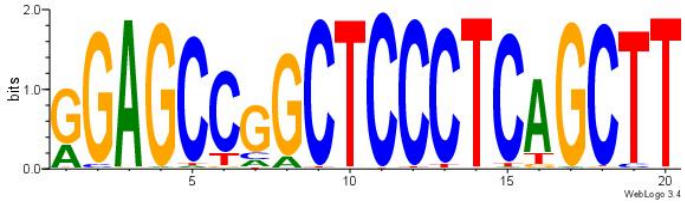

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132359

Alignment:
GCGCTCKTCGGGGAGGCTCG
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

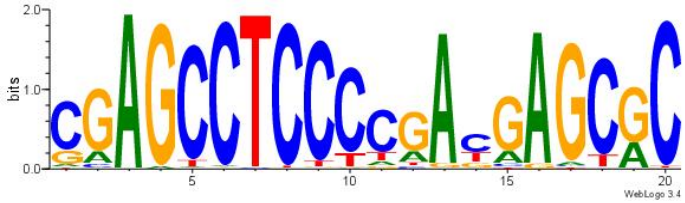

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

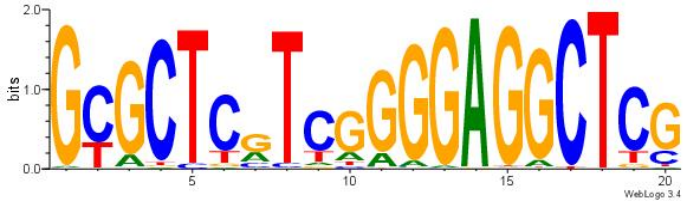

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.132535

Alignment:
AGCTCMKCCTCCTGTCAGAT
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

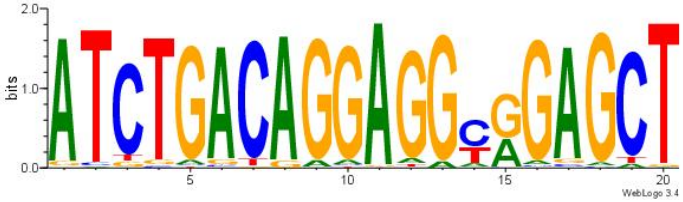

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

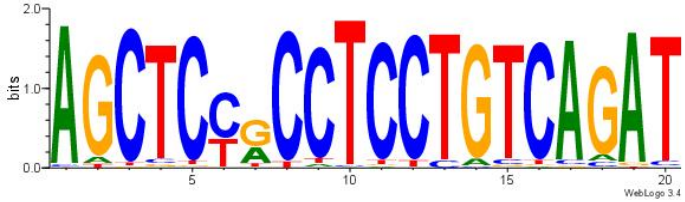

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.132618

Alignment:
GGCATCACGGATCCTACCAA
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

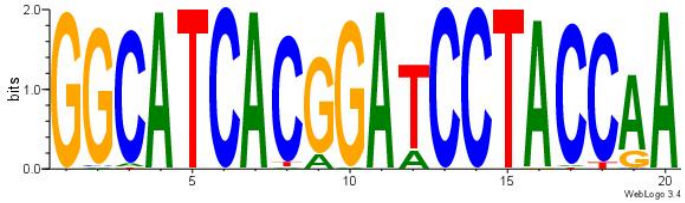

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

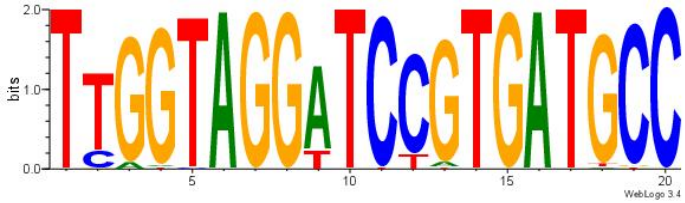

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133943

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

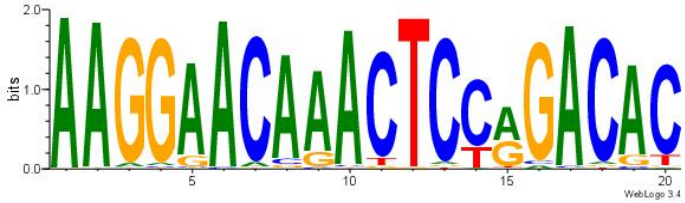

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

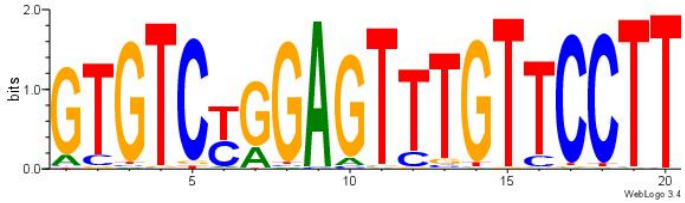

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135042

Alignment:

```
TTCAMTCATGATTTGGCTCT
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

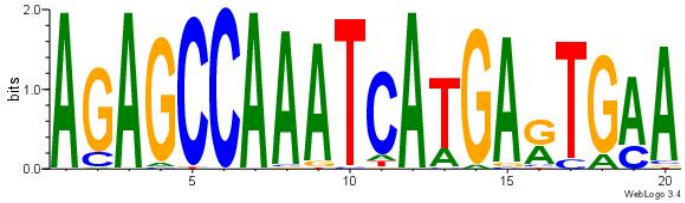

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

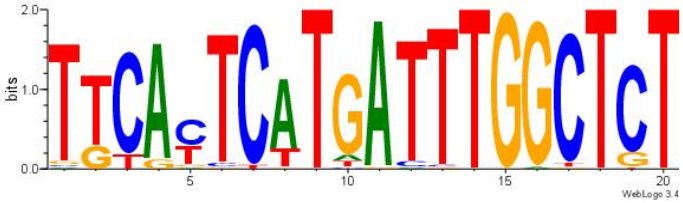

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.135082

Alignment:
CTGGGTCCCCCAGCAGTGCC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

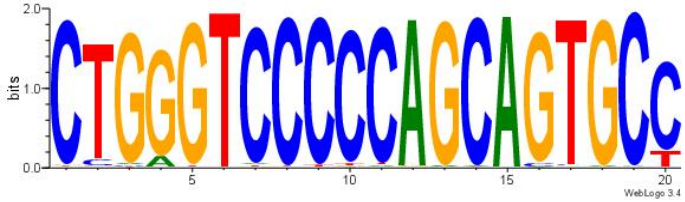

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

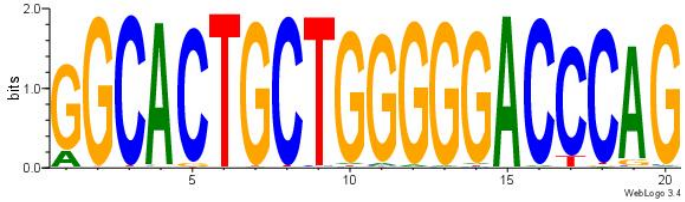

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135838

Alignment:
ATGTGGAGGTGGAAGACAGT
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

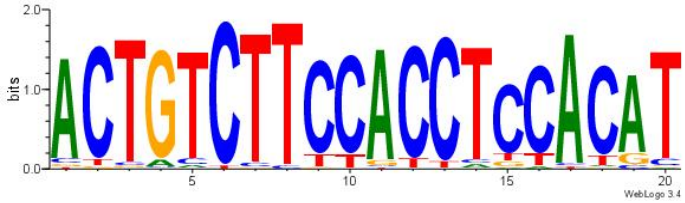

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

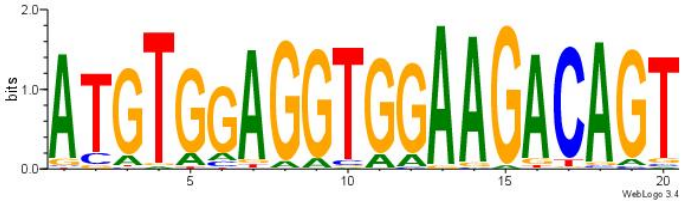

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136224

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

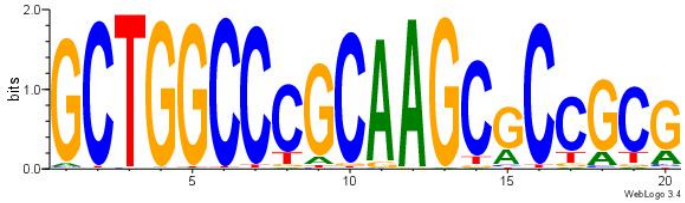

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

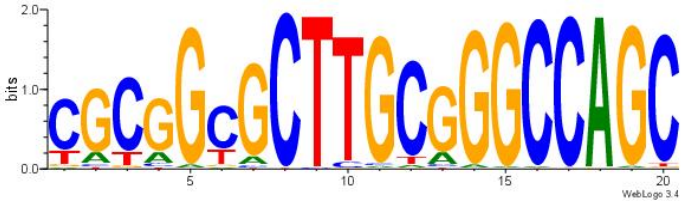

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136626

Alignment:

```
GGATCCACTGGGTGAAGCCA
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

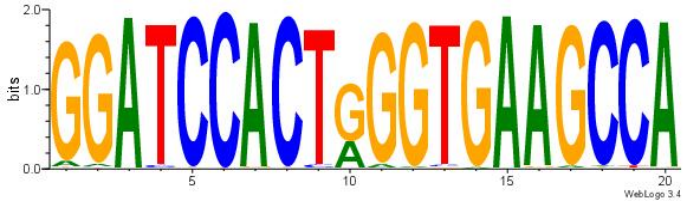

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

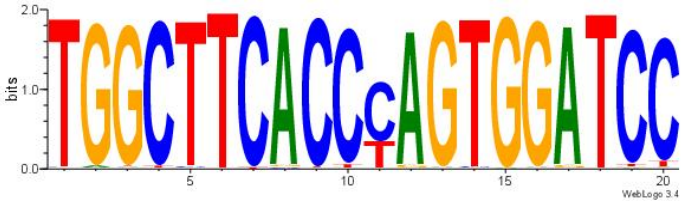

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.137526

Alignment:
ACCGAGMKMGCAGCTTCGGG
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

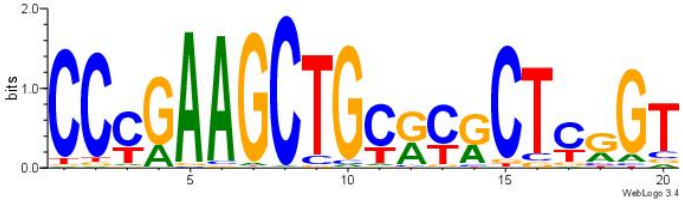

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

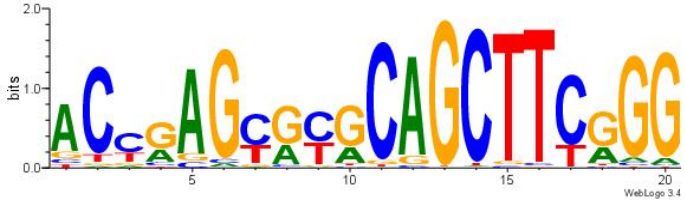

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138393

Alignment:
TCTCTCTCTCTCTCTCTCTC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

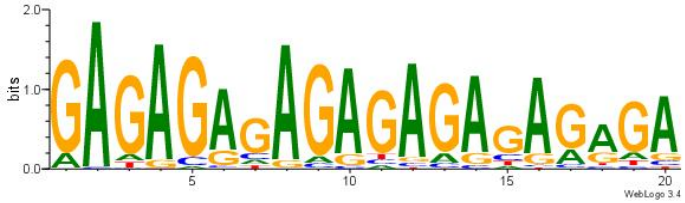

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

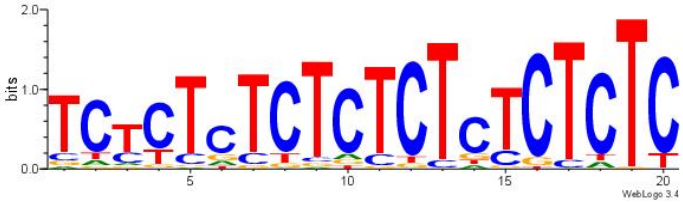

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140877

Alignment:

```
AGTAGGTGCTCARTAAATRB
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

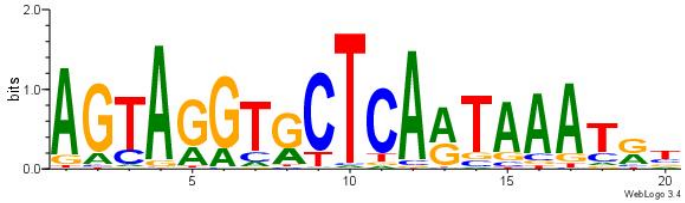

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

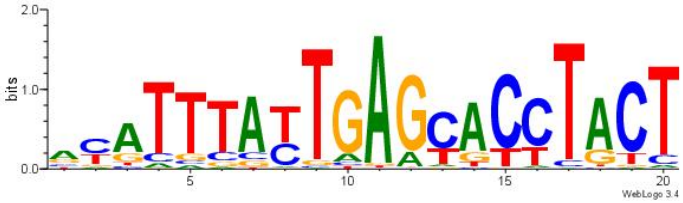

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141986

Alignment:
GGAGGTGTGGAGGGAGAGGC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

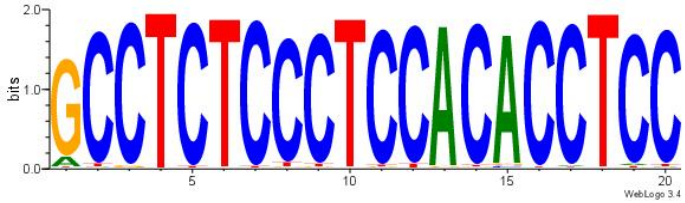

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

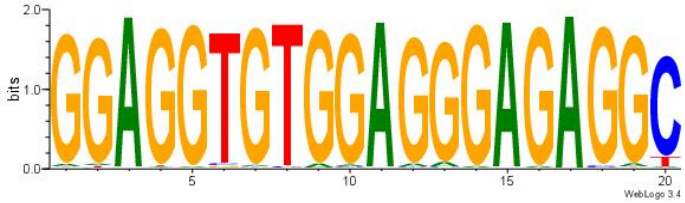

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.142759

Alignment:
CAGCTACTCKTATACCCTTG
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

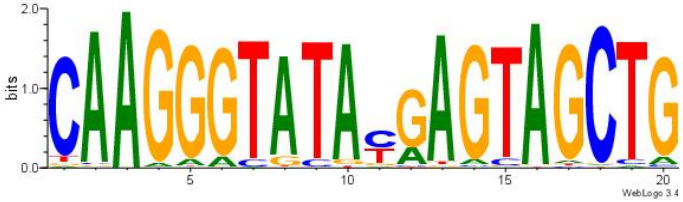

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

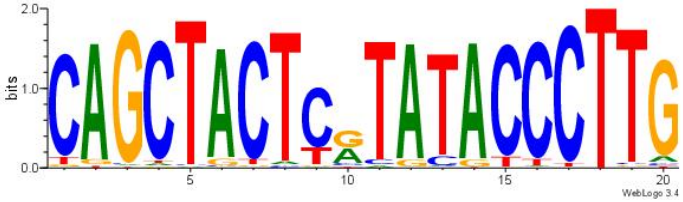

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142829

Alignment:
ATGTAACCAAAYACCACCTG
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

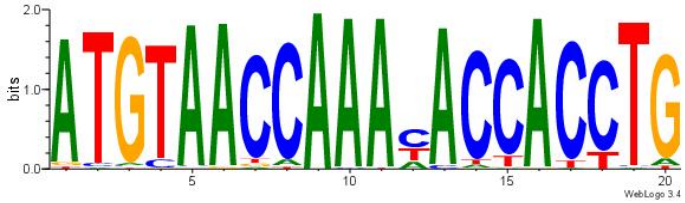

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

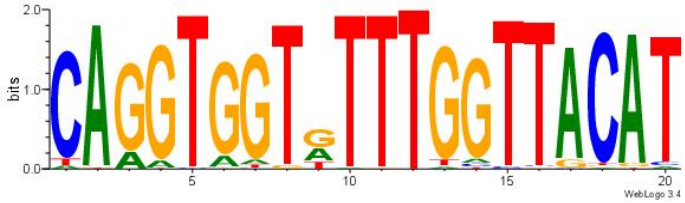

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142918

Alignment:

```
CATTCTGGGGTCTGGAGGAY
GAAHCAACCKAAKTGTCCAT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

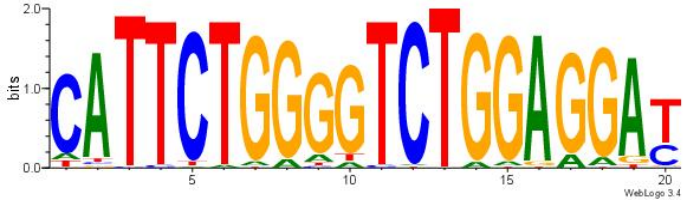

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

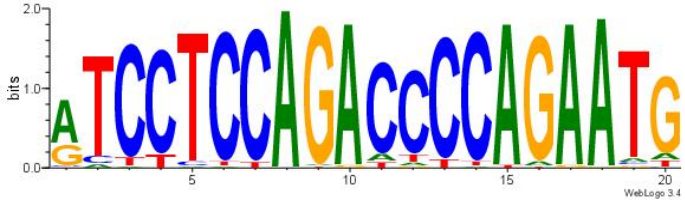

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143062

Alignment:

CAACATGGATGRARCTGGAG
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

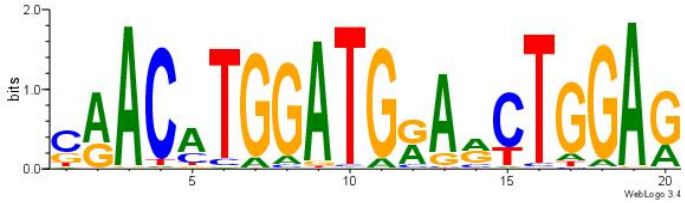

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

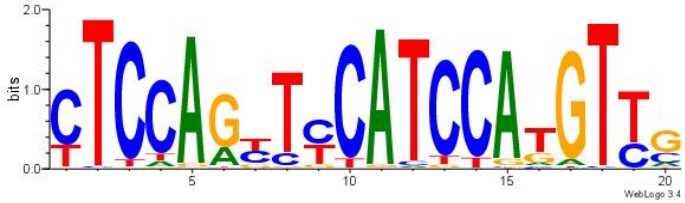

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.143343

Alignment:
CTTGCCCAAGGTCACACAGC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

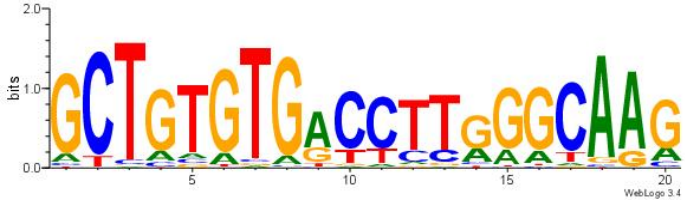

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

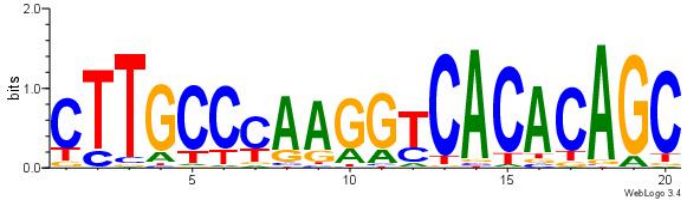

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143505

Alignment:
AAGCAGGGCGAGGCATTGCC
ATGGACAYTTRGGTTGHTTC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

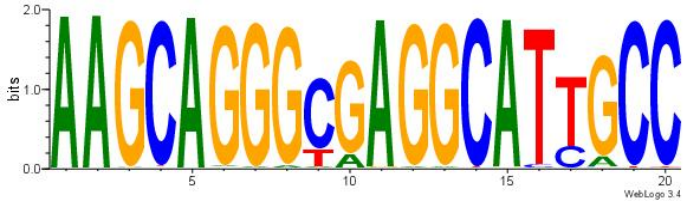

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

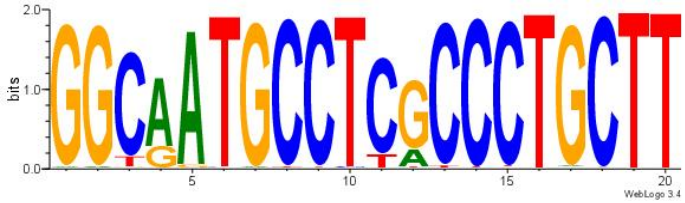

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14364

Alignment:

```
GTGGCCCTCTTCTCACAGCT
ATGGACAYTTRGGTTGHTTC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

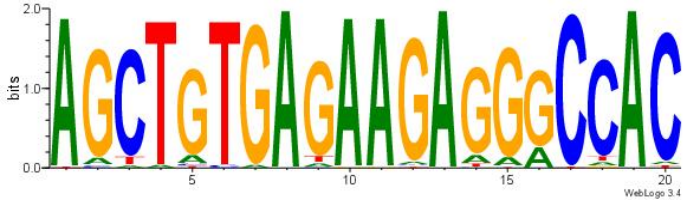

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

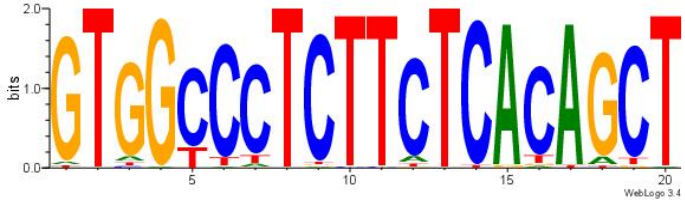

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144272

Alignment:
GCCKGGMKCMGTGGCTCAKG
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

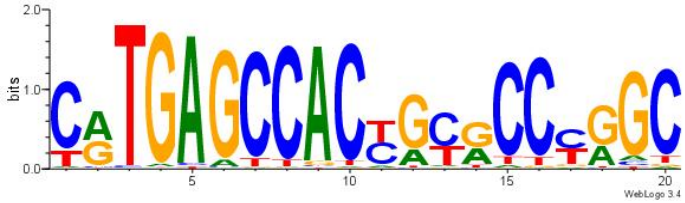

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

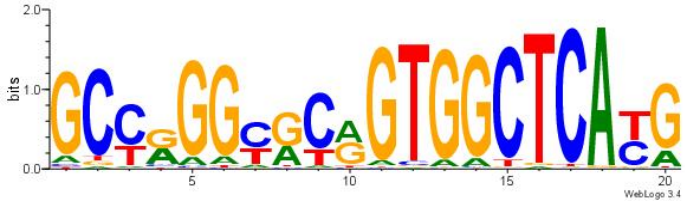

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.144439

Alignment:
TMGGGAGGCTGAGGCAGGAG
GAAHCAACCKAAKTGTCCAT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

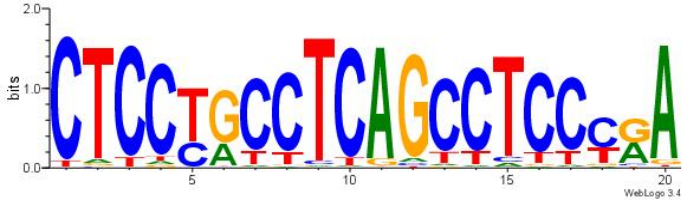

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

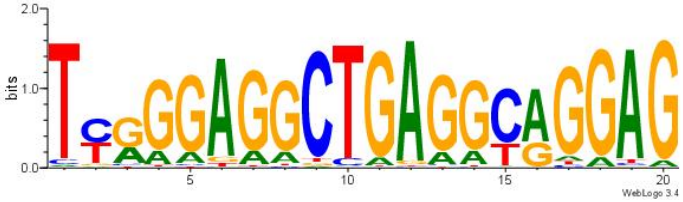

Dataset #: 1 Motif ID: 59 Motif name: Motif 59

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

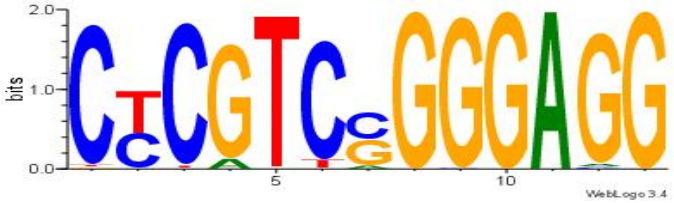

Best Matches for Motif ID 59 (Highest to Lowest)

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0335165

Alignment:

```
TCCCTCCCGGACGGGGYGGC
--CCTCCCSGACGRG-----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

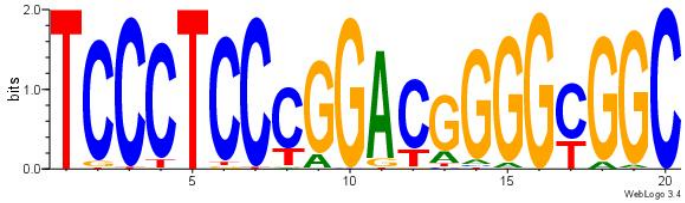

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

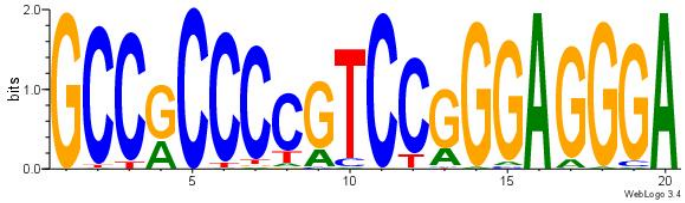

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0365108

Alignment:

GCGCTCKTCGGGGAGGCTCG
---CKCGTCSGGGAGG----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

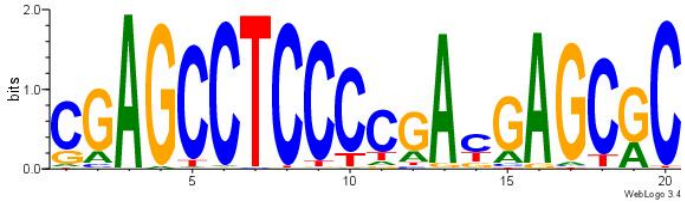

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

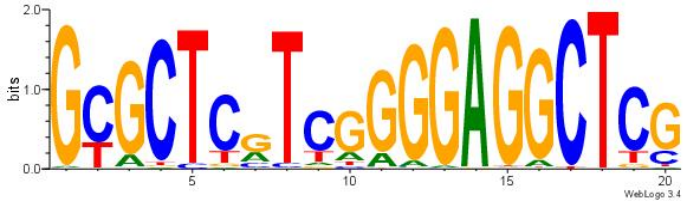

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0569667

Alignment:
CACTTCCCAGACGGGGCG
--CCTCCCSGACGRG---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

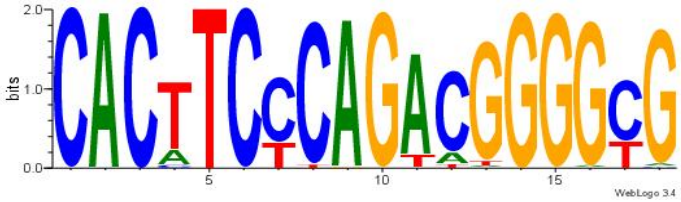

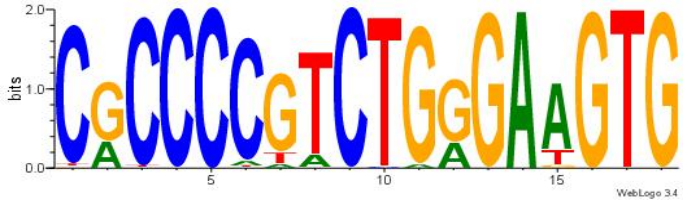

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0606018

Alignment:

```
ACCCYGTCTGGGAGGTG
--CKCGTCSGGGAGG--
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

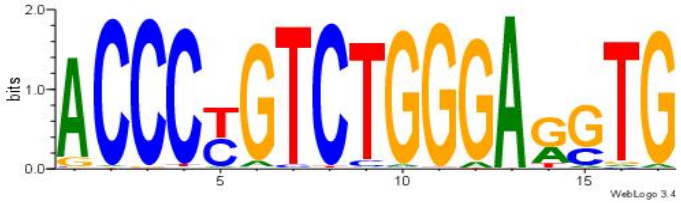

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

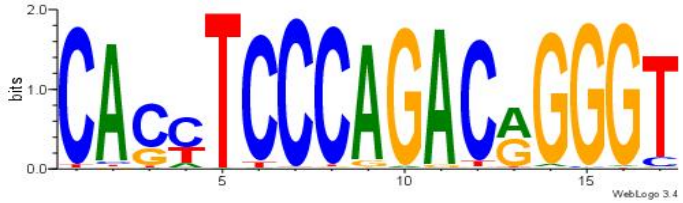

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0628382

Alignment:

```
CGCCCATCGTCTGGGATGT
-----CKCGTCSGGGAGG-
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

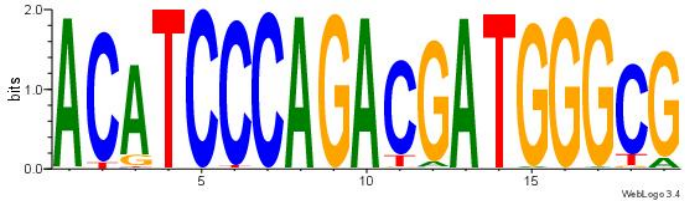

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

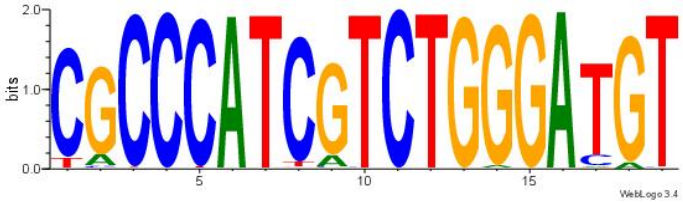

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.0743232

Alignment:
CCTCCCAGCCGCCT
-CCTCCCSGACGRG

Original motif Consensus sequence: AGGCGGCTGGGAGG

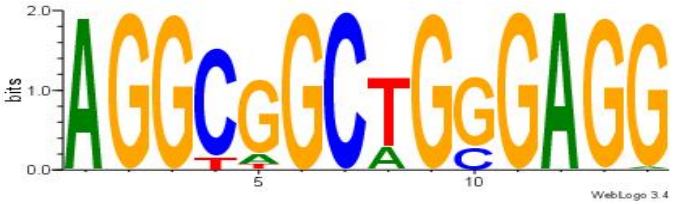

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0817885

Alignment:
TTMGTCCCAGAGGGGCACC
--CCTCCCSGACGRG----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

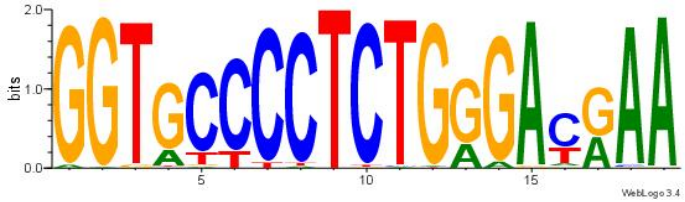

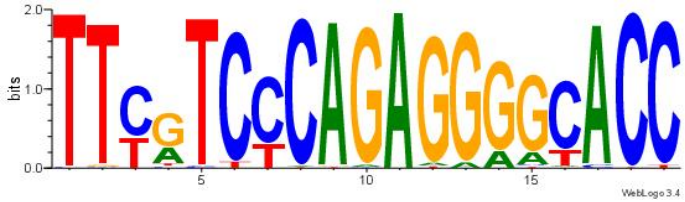

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0829215

Alignment:

```
CCCTCACTGCCCGGGG
-CCTCCCSGACGRG--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

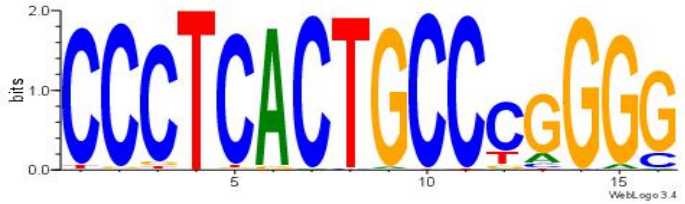

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

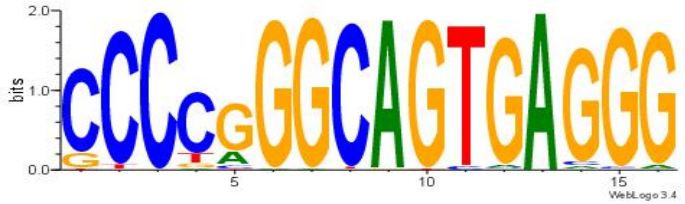

Dataset #: 1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0870558

Alignment:

```
TGCCCAGTCTGGAAAGTG
--CKCGTCSGGGAGG---
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

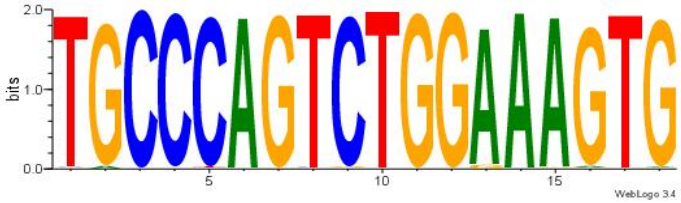

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

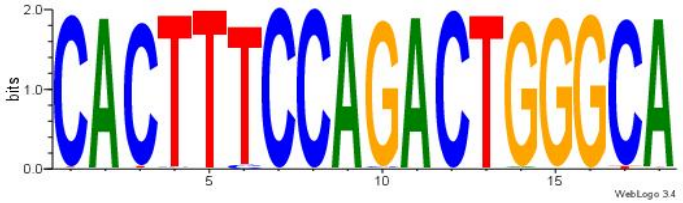

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.0941762

Alignment:
GGTTCATCTCACTAGGGAGT
CKCGTCSGGGAGG-------

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

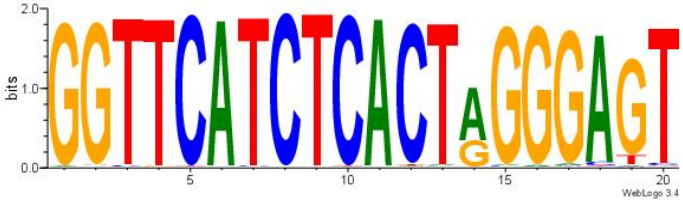

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

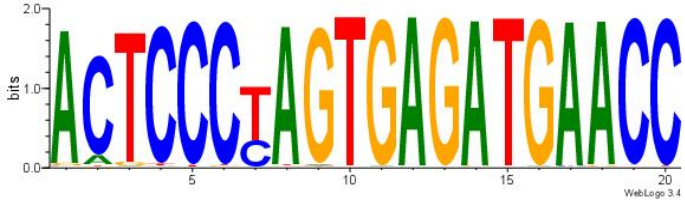

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.094625

Alignment:
GAATACCTCCTGAAGGACCT
-----CCTCCCSGACGRG--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

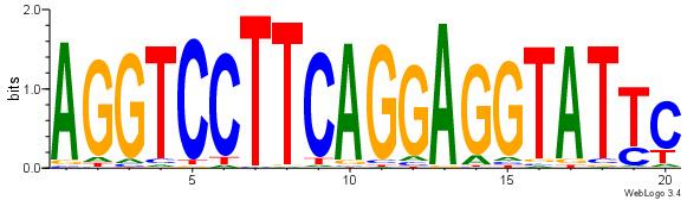

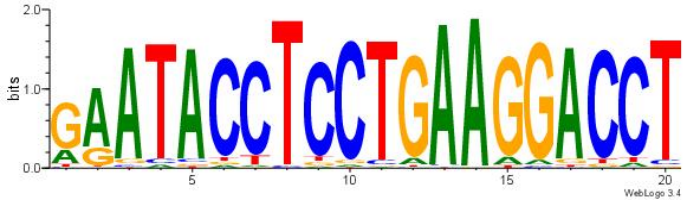

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0952265

Alignment:

```
CCATCTAGGAAGTG
-CCTCCCSGACGRG
```

Original motif Consensus sequence: CACTTCCTAGATGG

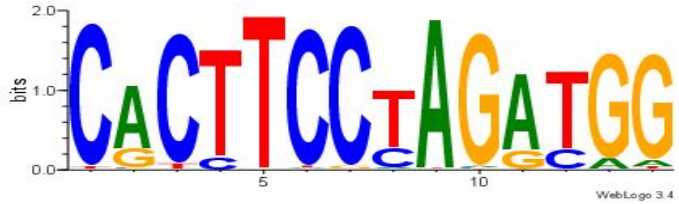

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

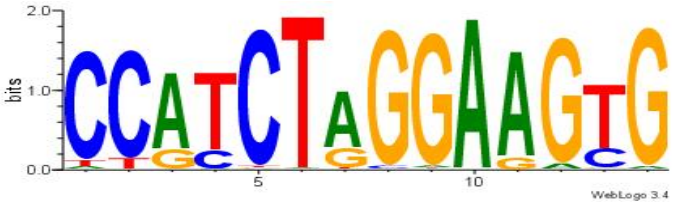

Dataset #:	1
Motif ID:	10

Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0963035

Alignment:

```
AGGASCSTCYSWGCCMGGY
-----CCTCCCSGACGRG-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

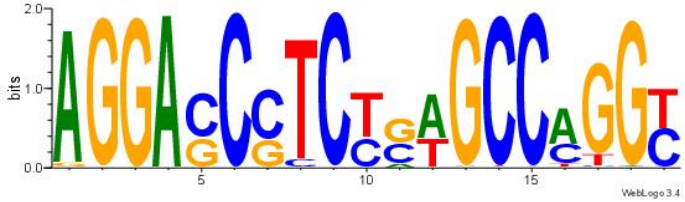

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

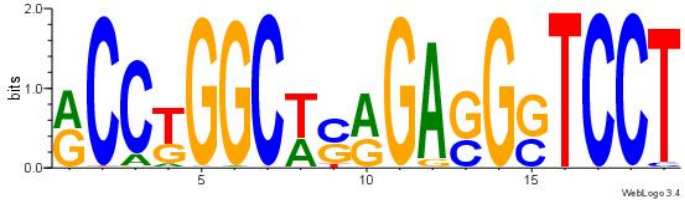

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0972284

Alignment:
CCACCACAGCTCAAGGAGGC
------CKCGTCSGGGAGG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

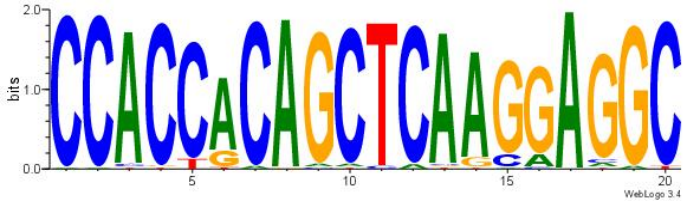

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

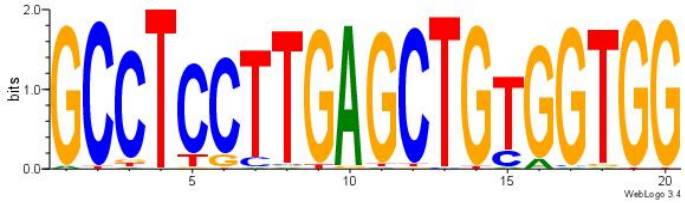

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0972392

Alignment:
AGCCTCCAGAACTGT
--CCTCCCSGACGRG

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0999645

Alignment:

```
ATTAGCYRGGCRTGGTGGC
-CKCGTCSGGGAGG-----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

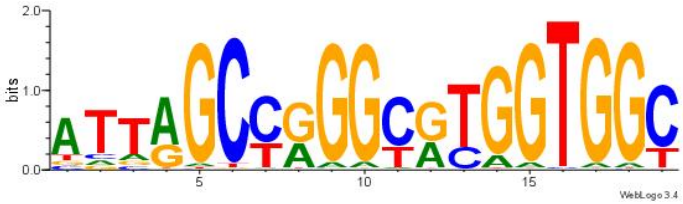

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

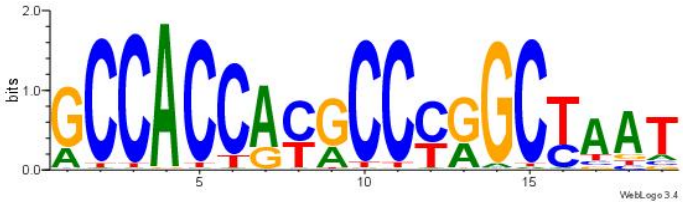

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.100456

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-----CKCGTCSGGGAGG-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

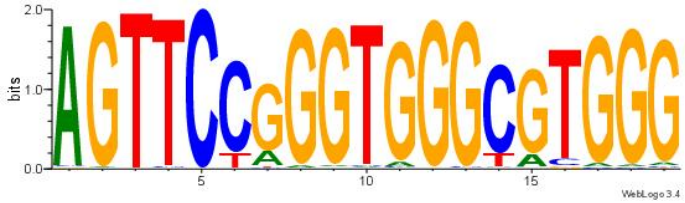

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

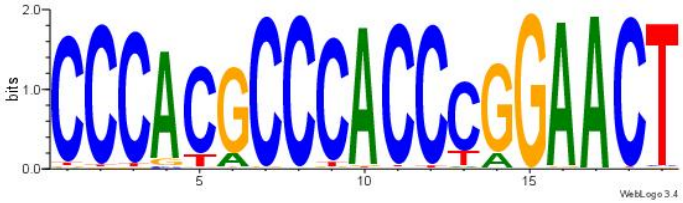

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.102756

Alignment:
ACCKTCGCGGTGAGTGTTAC
--CKCGTCSGGGAGG-----

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

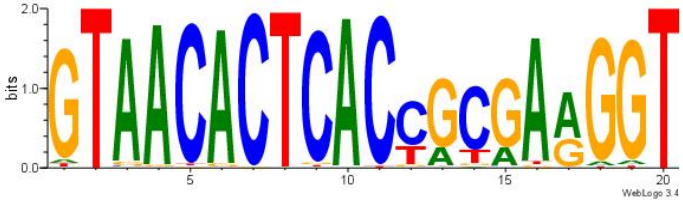

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

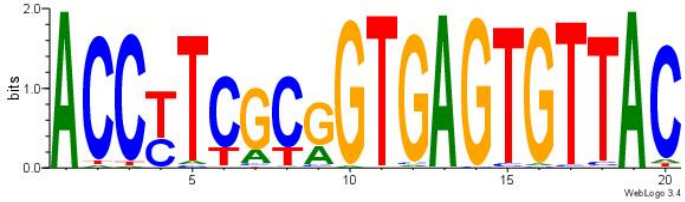

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.102881

Alignment:
GCTTAGCACCYGGGCCAGC
-----CCTCCCSGACGRG-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

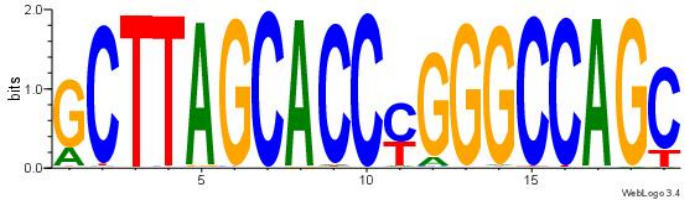

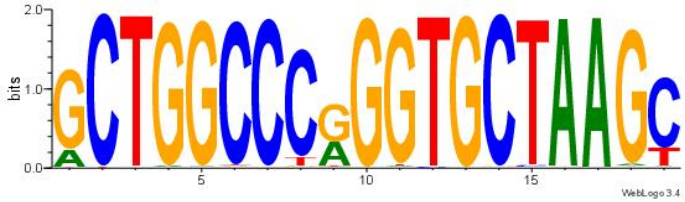

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.103291

Alignment:

```
TTTCCTTGACCAG
CCTCCCSGACGRG
```

Original motif Consensus sequence: CTGGTCAAGGAAA

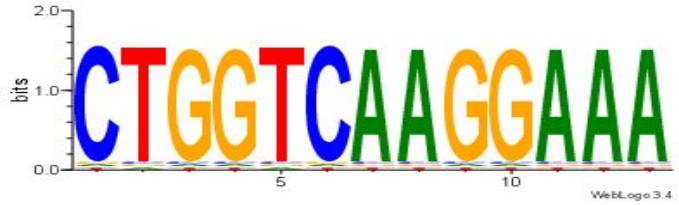

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

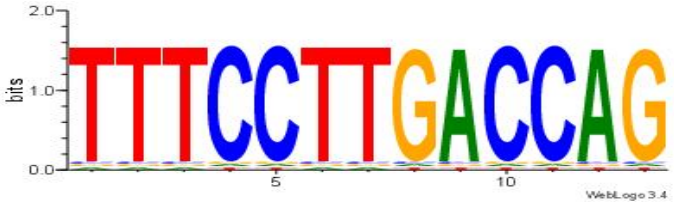

Dataset #:	1
Motif ID:	292

Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.105647

Alignment:

```
AAGACCTTCCAGTGGGACAA
----CCTCCCSGACGRG---
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

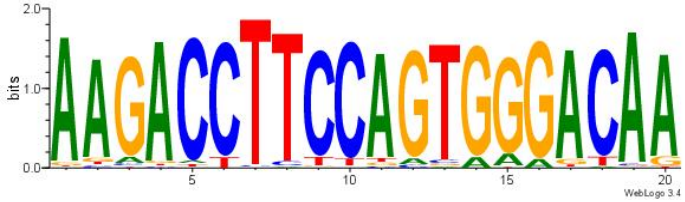

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

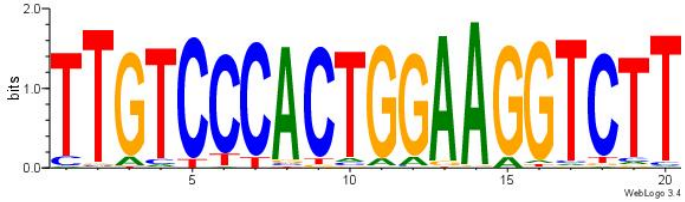

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.107343

Alignment:
CRTGAGCCACYGYRCCYGGC
------CCTCCCSGACGRG-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

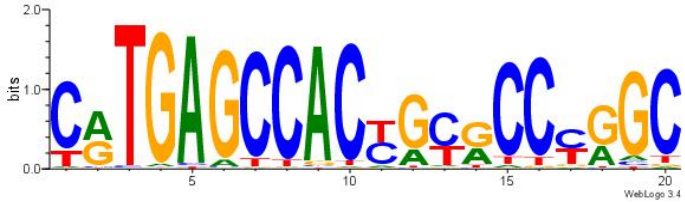

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

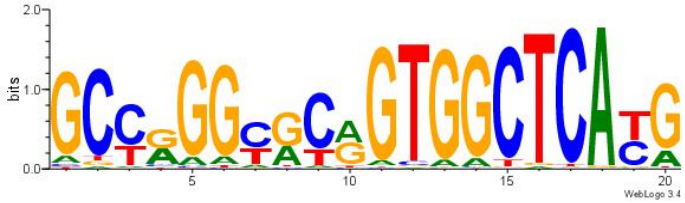

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107537

Alignment:
CCGCACTCGGAGCRG
--CCTCCCSGACGRG

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

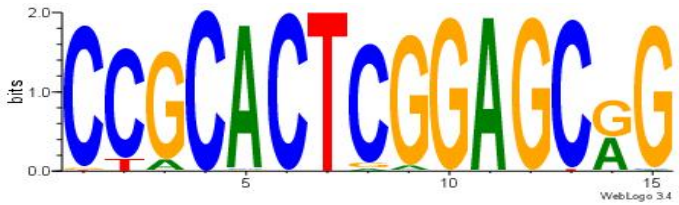

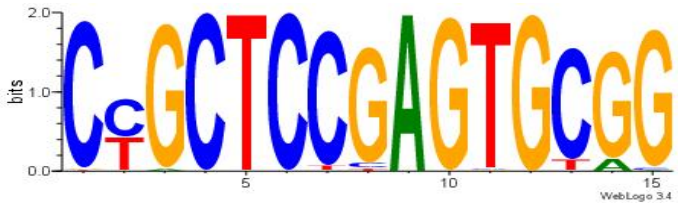

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.108033

Alignment:

```
GGCCMGCAGGGCKGGC
--CCTCCCSGACGRG-
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

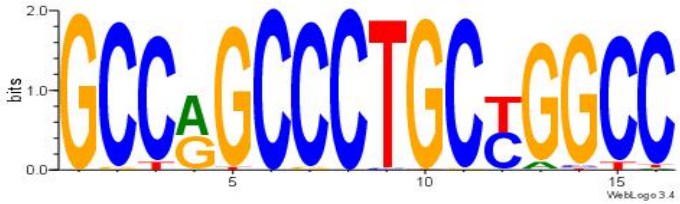

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

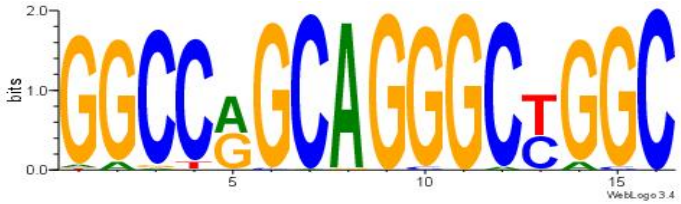

Dataset #:	1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.109569

Alignment:

```
AAAGAGAGTCAGCGAAG
----CKCGTCSGGGAGG
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

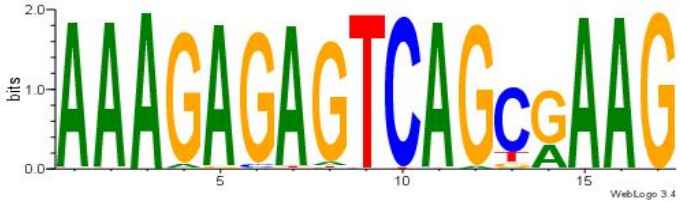

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

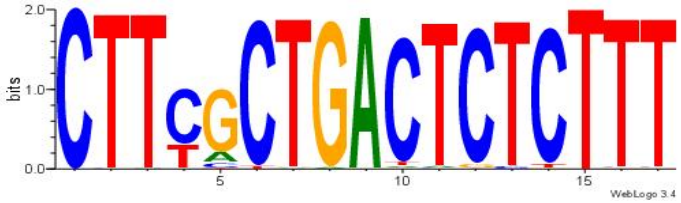

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.110154

Alignment:
ATCTGACAGGAGGYRGAGCT
CKCGTCSGGGAGG-------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

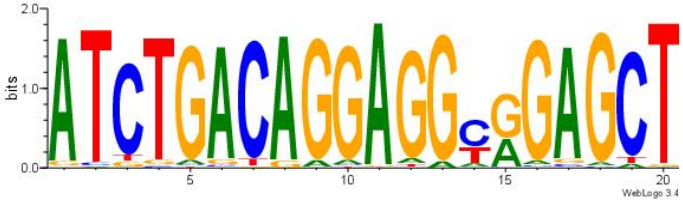

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

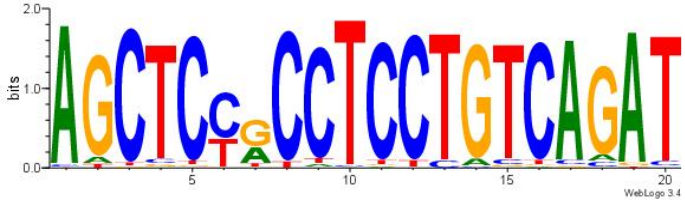

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.111249

Alignment:
GGCACTGCTGGGGGACCCAG
----CKCGTCSGGGAGG---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

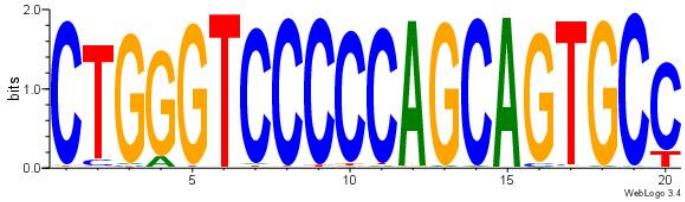

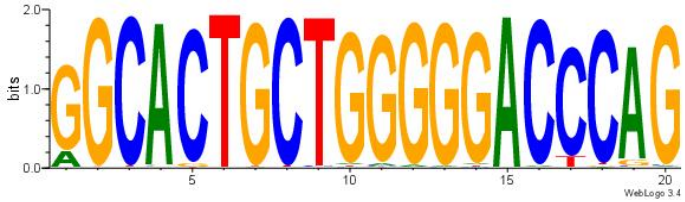

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.112008

Alignment:

```
TGGCTTCACCCAGTGGATCC
---CCTCCCSGACGRG----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

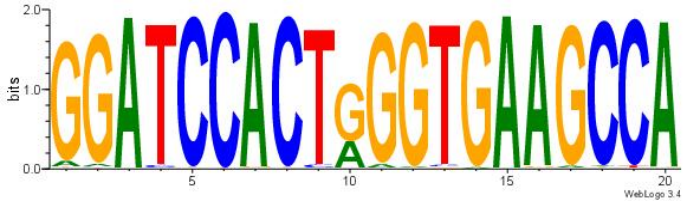

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

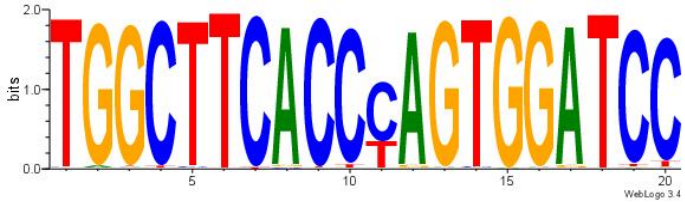

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.11219

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CCTCCCSGACGRG------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

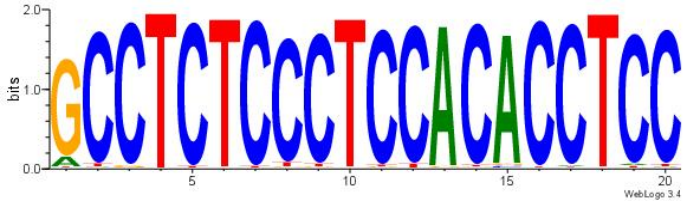

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

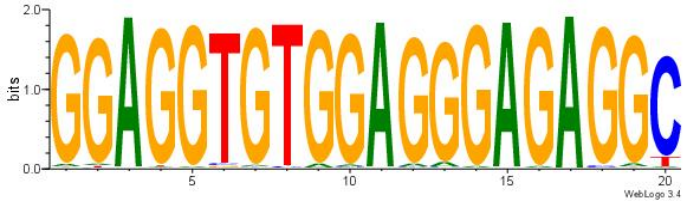

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.113061

Alignment:
GCTGGCCCGCAAGCGCCGCG
-CKCGTCSGGGAGG------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

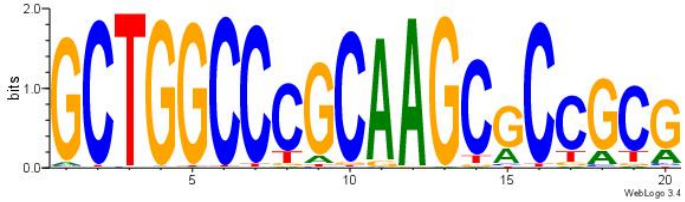

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

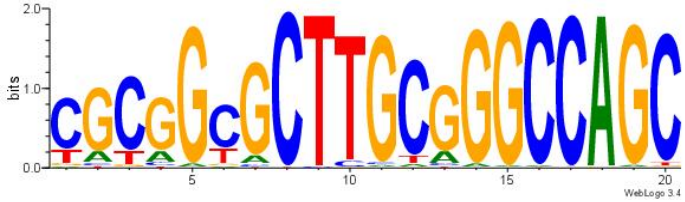

Dataset #: 1
Motif ID: 42
Motif name: Motif 42
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.113277

Alignment:
CTCTGCCCGGCCGC
-CCTCCCSGACGRG

Original motif Consensus sequence: CTCTGCCCGGCCGC

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

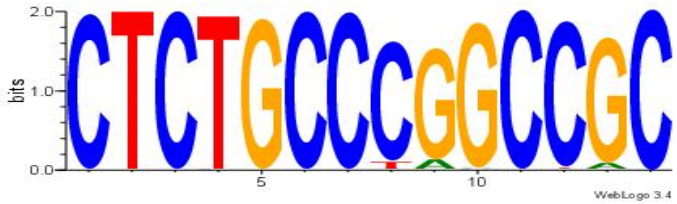

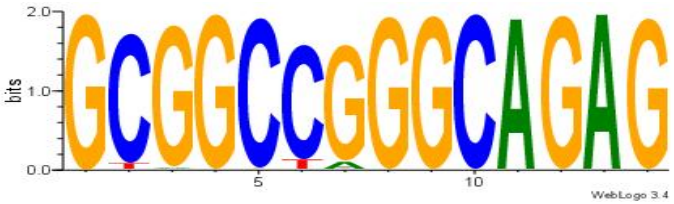

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.113624

Alignment:

```
TTGGTAGGATCCGTGATGCC
-----CKCGTCSGGGAGG--
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

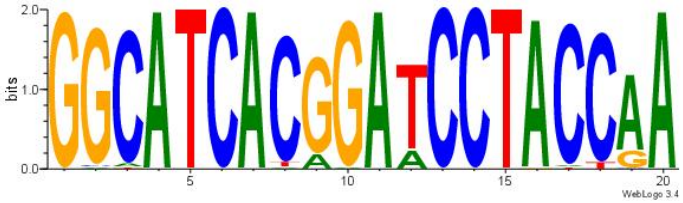

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

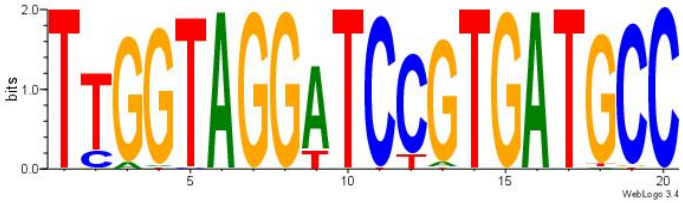

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.115067

Alignment:

```
CCGCGGGGCAGGGCTCG
CCTCCCSGACGRG----
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

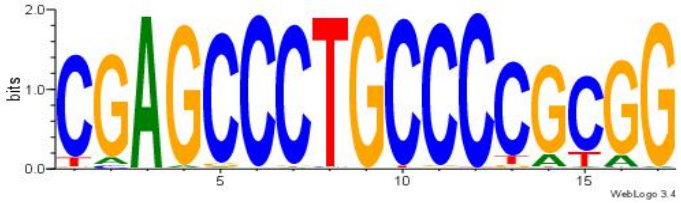

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

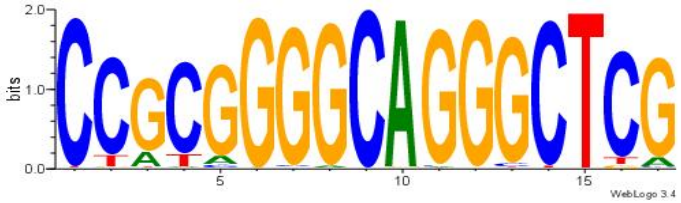

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.115071

Alignment:
ARCTCCTGKSCTCAAGKGAT
------CCTCCCSGACGRG-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

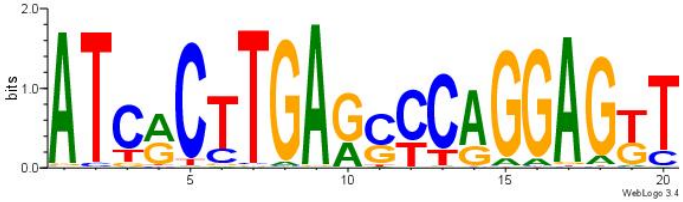

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

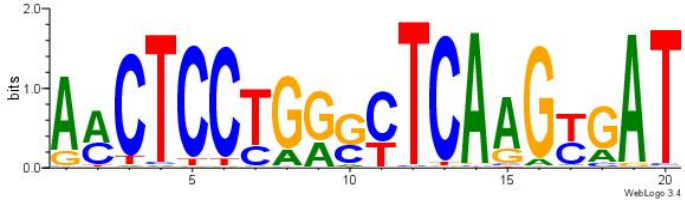

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.115459

Alignment:
TCACKMGGGAAGCGCAAG
----CCTCCCSGACGRG-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

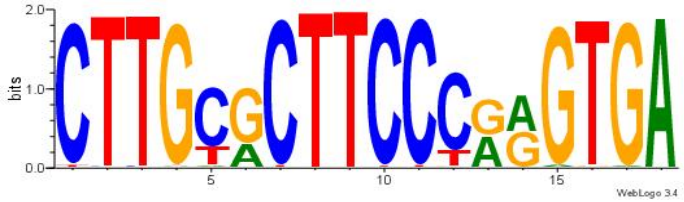

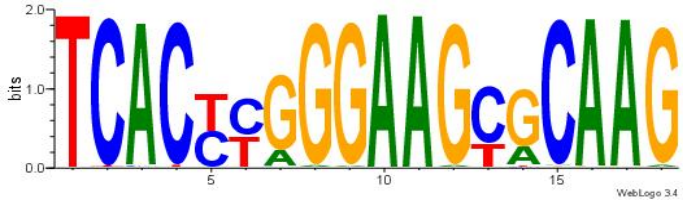

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.115836

Alignment:

```
AATCAACCCTGGYRATCAAT
---CCTCCCSGACGRG----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

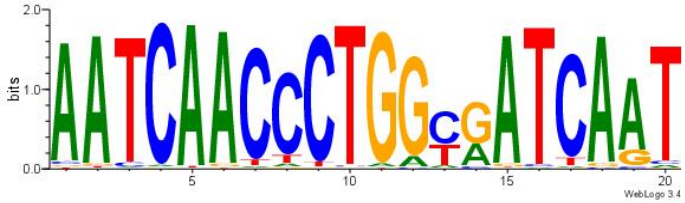

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

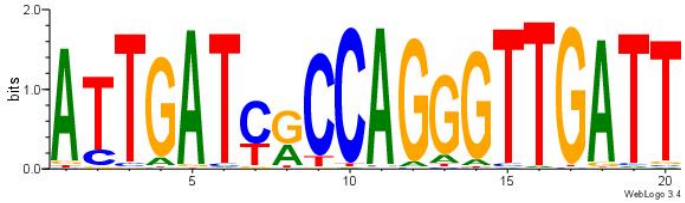

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.116124

Alignment:

```
TTGGAGGTTCTAGCAGGG
----CKCGTCSGGGAGG-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

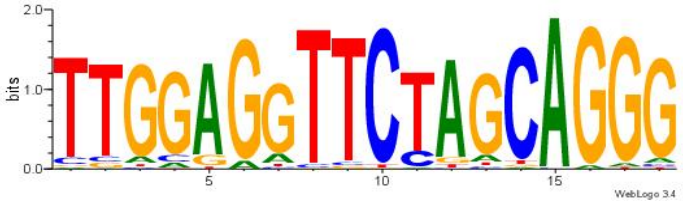

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.116454

Alignment:
CKAGTCAAAGAAA
CKCGTCSGGGAGG

Original motif Consensus sequence: CKAGTCAAAGAAA

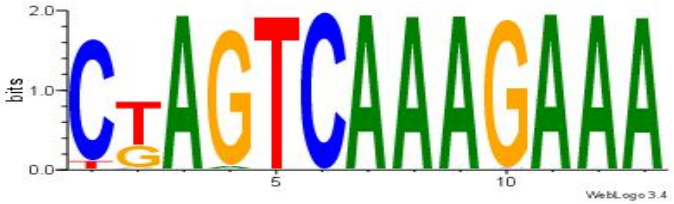

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

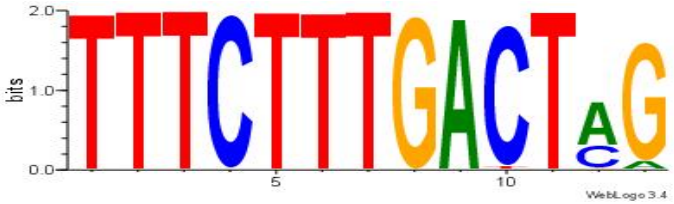

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.117386

Alignment:
CTTTCTGGGCTGGCCAAGG
CCTCCCSGACGRG------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

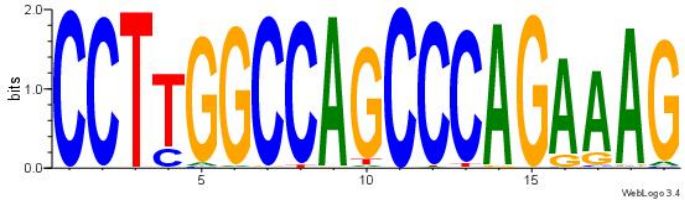

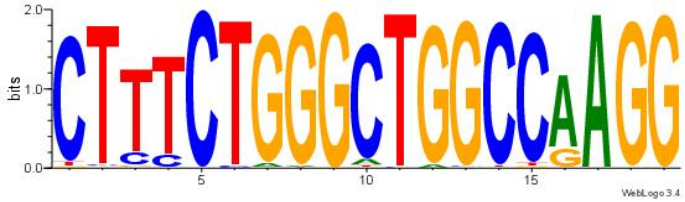

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.117575

Alignment:

```
GCTCCWGTGYGKCC
CCTCCCSGACGRG-
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

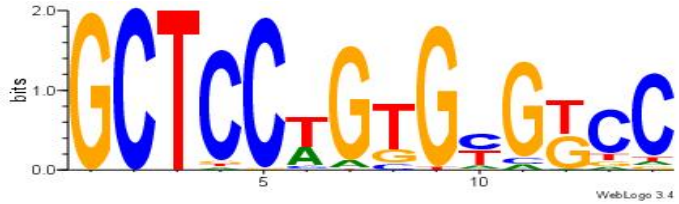

Reverse complement motif Consensus sequence: GGRCKCACWGGA

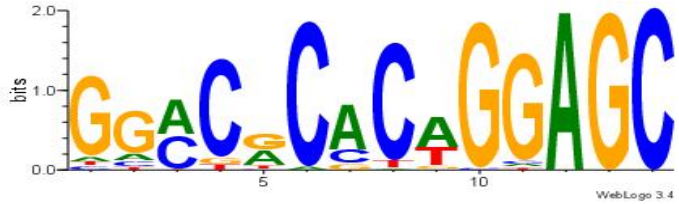

Dataset #:	1
Motif ID:	68

Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.117739

Alignment:

```
CATGGCGGGCTGCAGGTC
---CKCGTCSGGGAGG--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

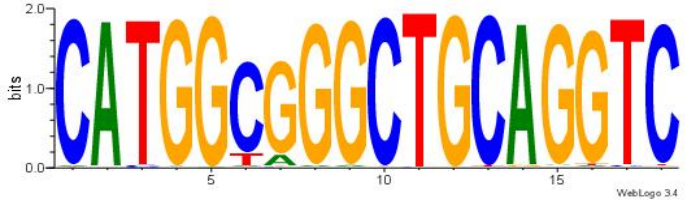

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

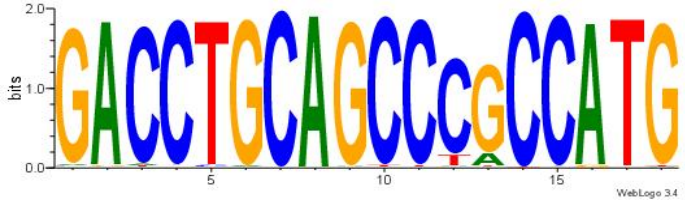

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.118448

Alignment:
CATTCTGGGGTCTGGAGGAY
-----CKCGTCSGGGAGG--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

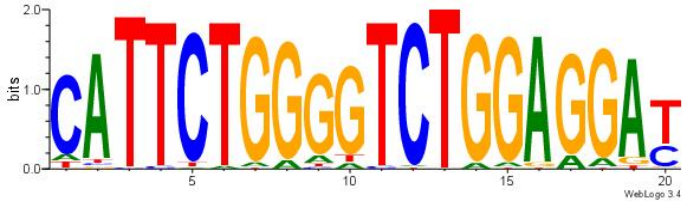

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

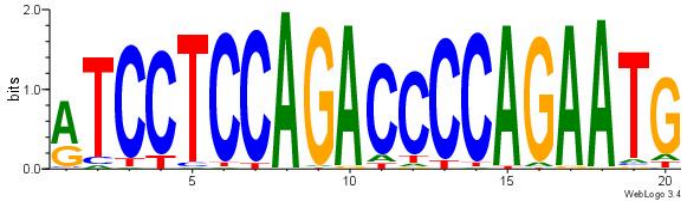

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.118998

Alignment:
GCGGCTGGCCGGGCG
CCTCCCSGACGRG--

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

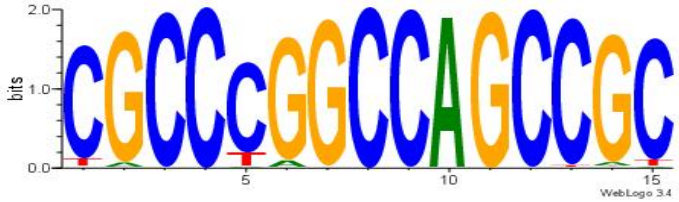

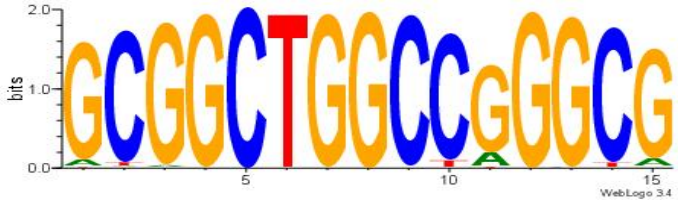

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.119274

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-------CCTCCCSGACGRG
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

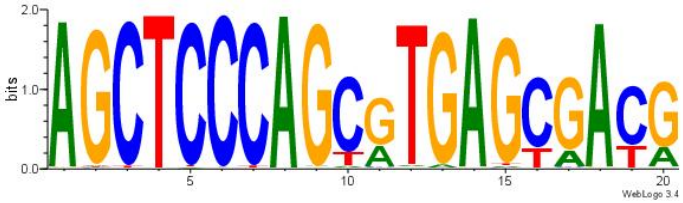

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

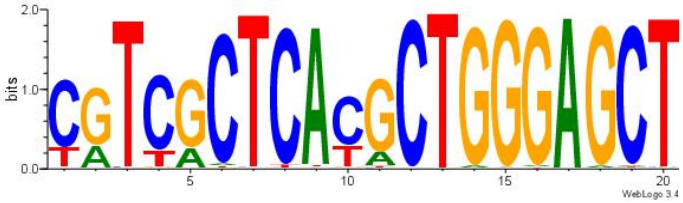

Dataset #:	1

Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.119845

Alignment:

```
CGGCTCGCGCACGG
CKCGTCSGGGAGG-
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

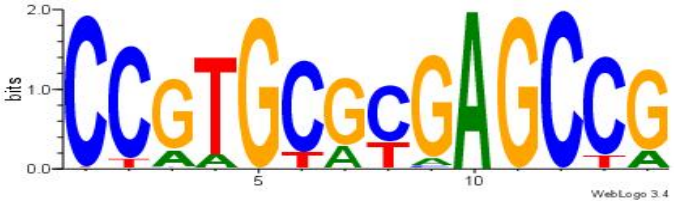

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

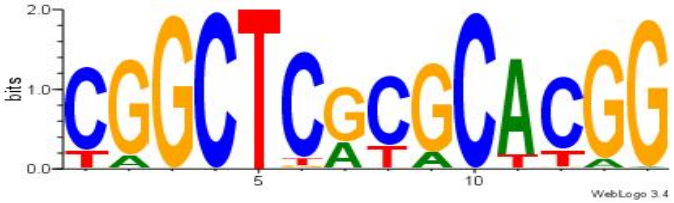

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.120486

Alignment:
AAGCTCGAACTGGGTGGAGC
---CKCGTCSGGGAGG----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

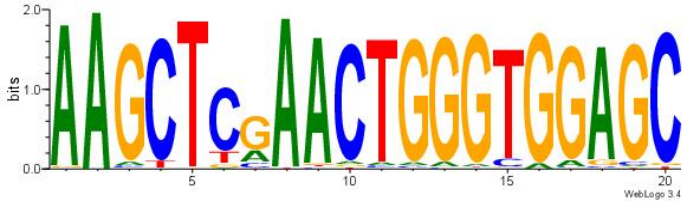

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

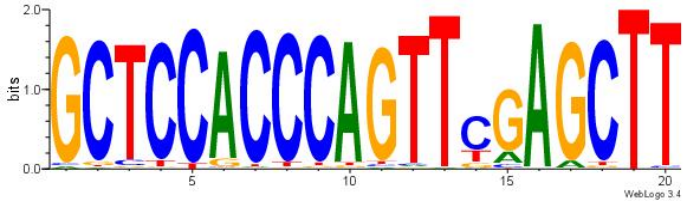

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.120938

Alignment:
CAAGCCTSKGCAATGGCAGG
--CKCGTCSGGGAGG-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

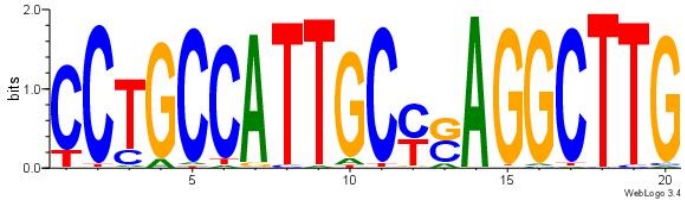

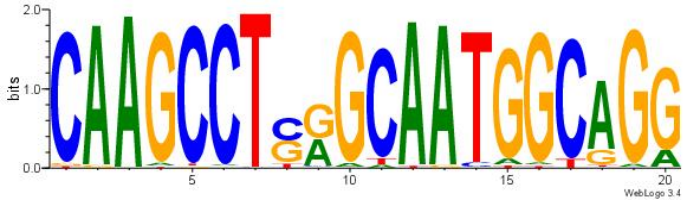

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.121631

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-CKCGTCSGGGAGG------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

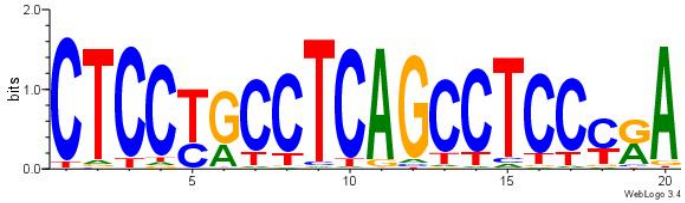

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

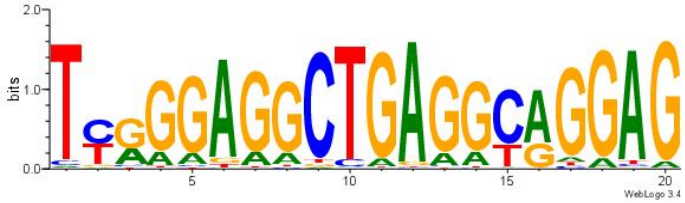

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.121977

Alignment:

```
GCCAGGCAGAGRGKCTCCT
-CCTCCCSGACGRG-----
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

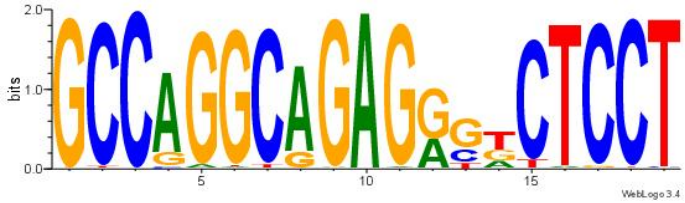

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

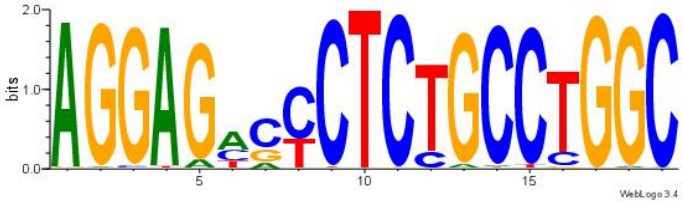

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.121985

Alignment:
GTGGCCCTCTTCTCACAGCT
------CKCGTCSGGGAGG-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

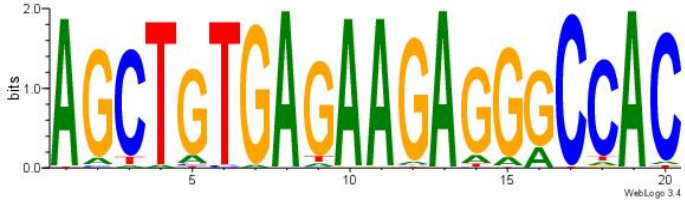

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

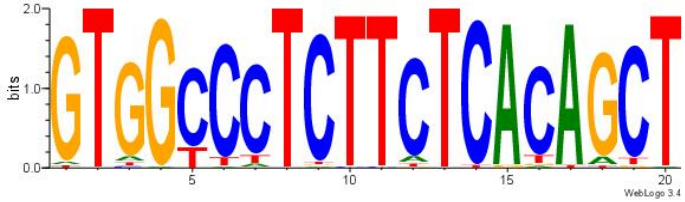

Dataset #: 1 Motif ID: 60 Motif name: Motif 60

Original motif Consensus sequence: GATCACGAGGTCAGGAG

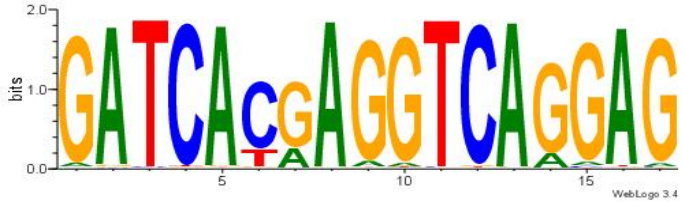

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

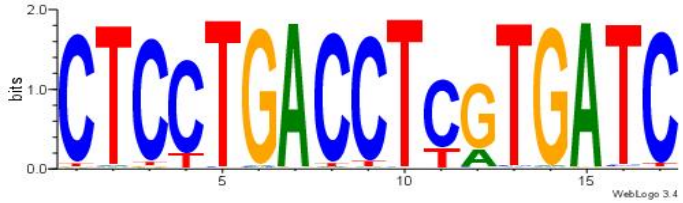

Best Matches for Motif ID 60 (Highest to Lowest)

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.08025

Alignment:

```
CATTCTGGGGTCTGGAGGAY
GATCACGAGGTCAGGAG---
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

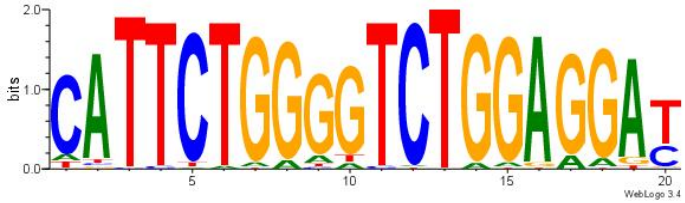

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

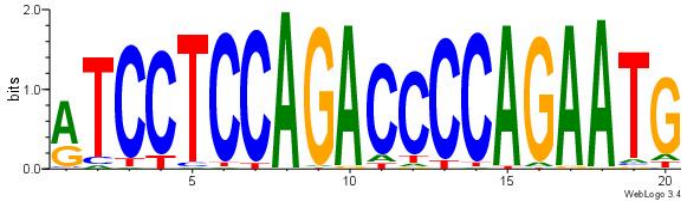

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0894593

Alignment:

CTGTTTGCCTGGGTATCA
CTCCTGACCTCGTGATC-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

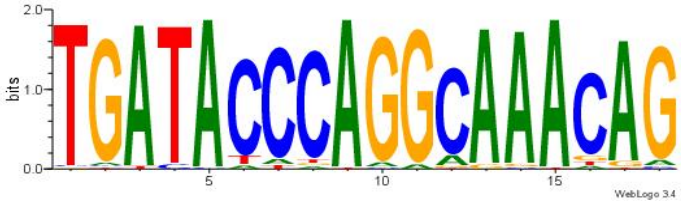

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

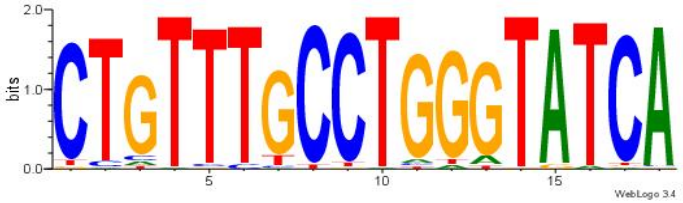

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0913916

Alignment:
ATCRCTTGAGSYCAGGAGKT
-GATCACGAGGTCAGGAG--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

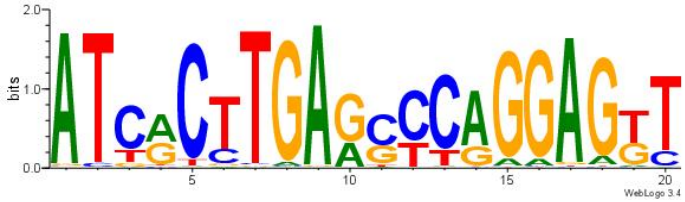

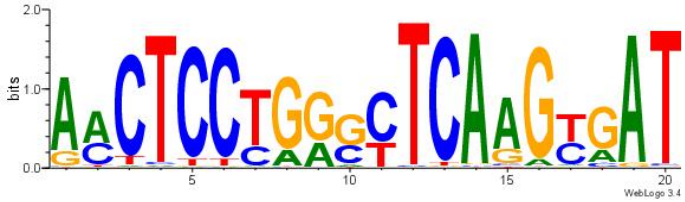

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.101368

Alignment:

```
CGGCGCTGMGCTCGATTTCT
--CTCCTGACCTCGTGATC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

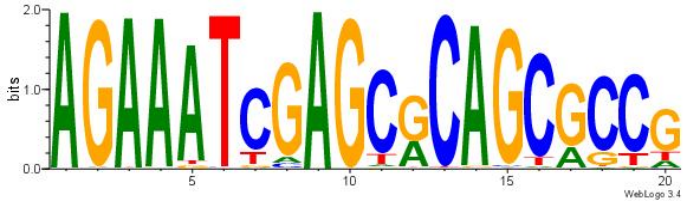

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

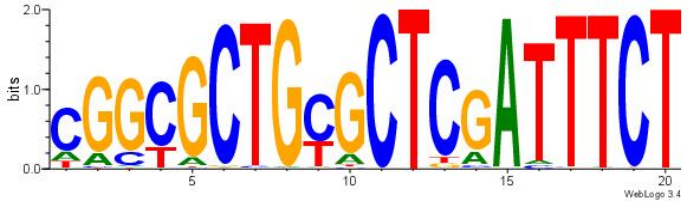

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.1095

Alignment:

```
GACATGAGCTGGCGCTTG
CTCCTGACCTCGTGATC-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

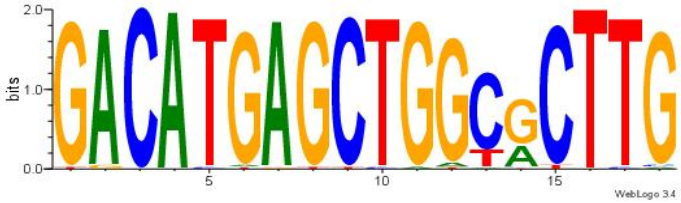

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

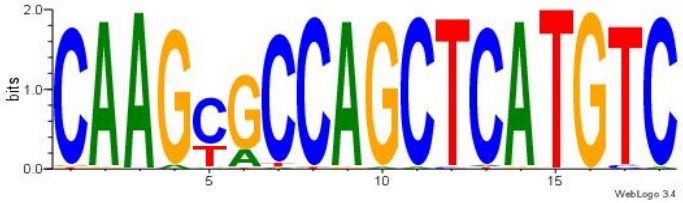

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.109645

Alignment:
AATCAACCCTGGYRATCAAT
CTCCTGACCTCGTGATC---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

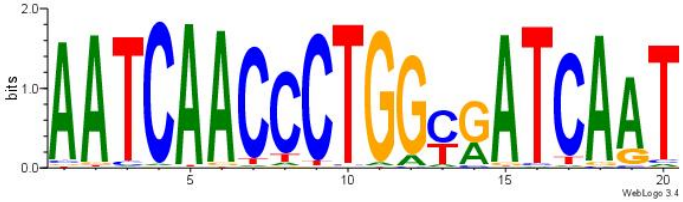

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

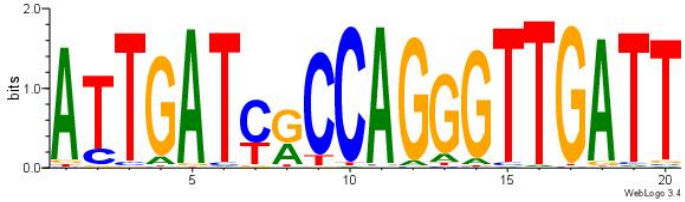

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.110188

Alignment:
GCACATGTAYCCYAGAACTT
-CTCCTGACCTCGTGATC--

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

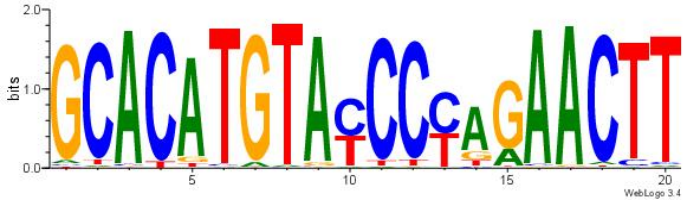

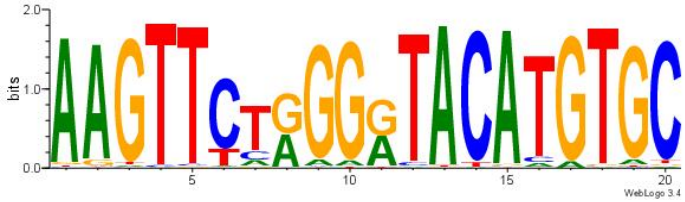

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.112167

Alignment:

```
GGTGGGGGGGTCAGCCCCC
GATCACGAGGTCAGGAG--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

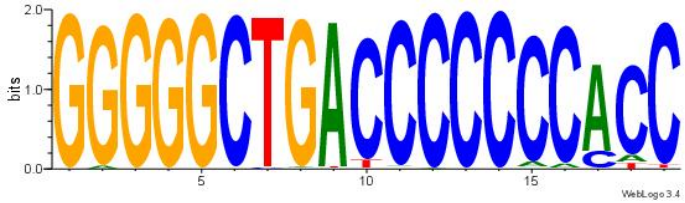

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

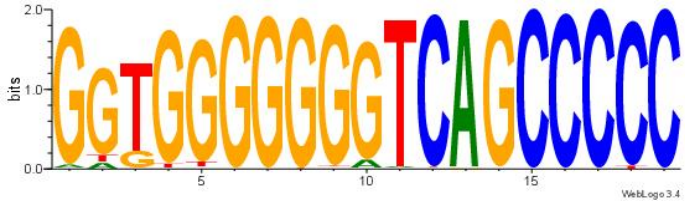

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.112256

Alignment:

```
CCACCACAGCTCAAGGAGGC
-GATCACGAGGTCAGGAG--
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

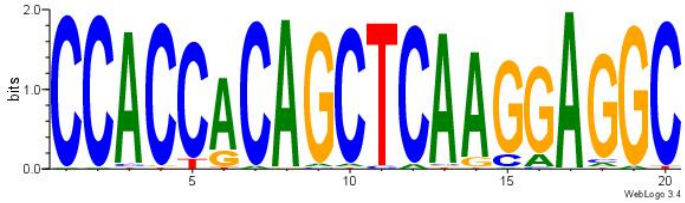

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

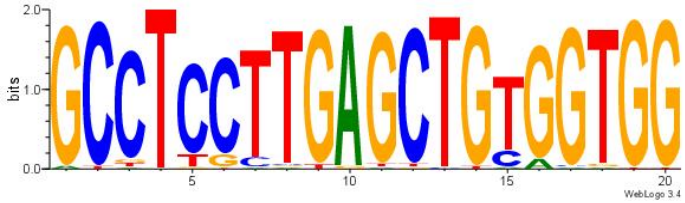

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.113584

Alignment:
TMGGGAGGCTGAGGCAGGAG
GATCACGAGGTCAGGAG---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

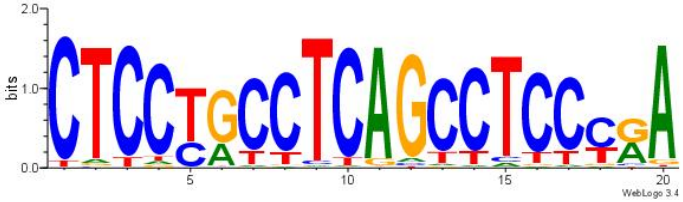

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

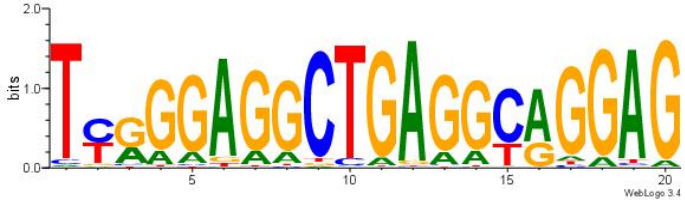

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.114196

Alignment:
AAGTCCAAGATCAAGGTGYY
GATCACGAGGTCAGGAG---

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

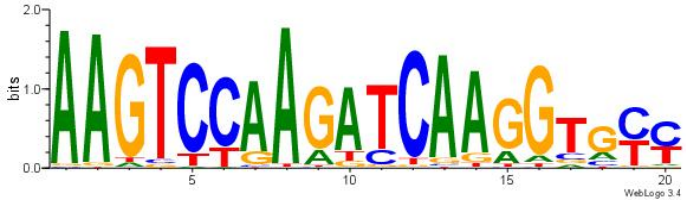

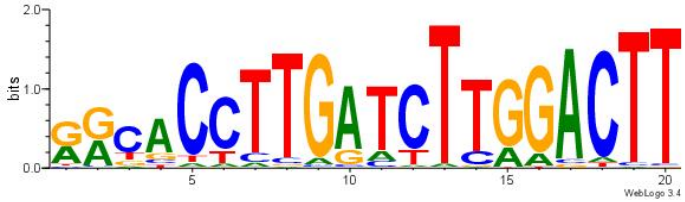

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.116317

Alignment:

```
GGATCCACTGGGTGAAGCCA
--GATCACGAGGTCAGGAG-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

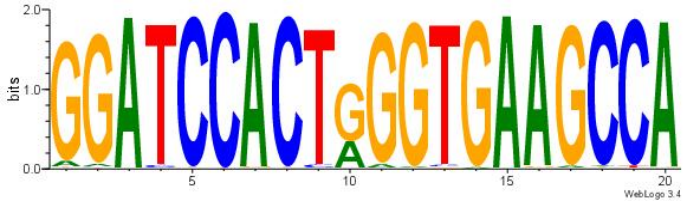

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

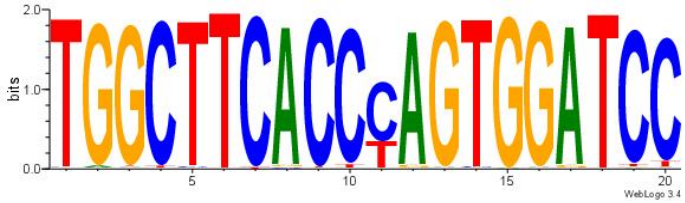

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.116328

Alignment:

```
AAGCTCGAACTGGGTGGAGC
--GATCACGAGGTCAGGAG-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

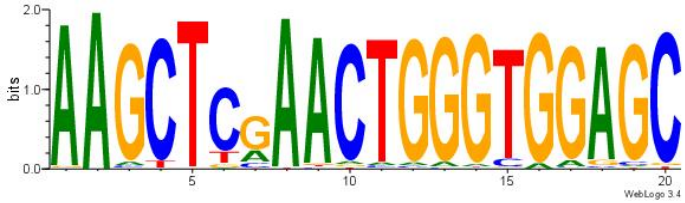

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

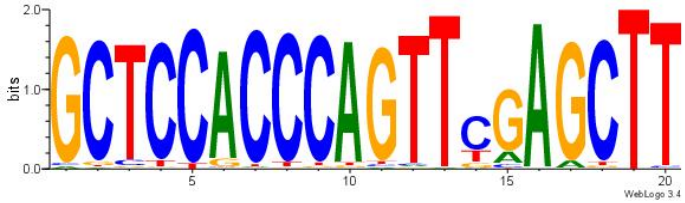

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.116601

Alignment:
AGACAGTGGGYGCAGGHCA
-GATCACGAGGTCAGGAG-

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

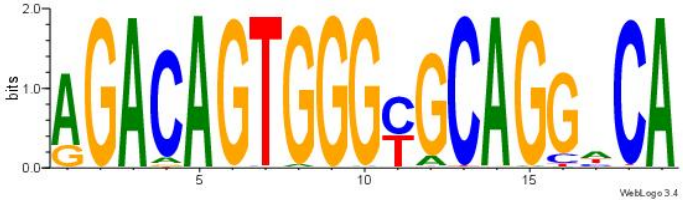

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

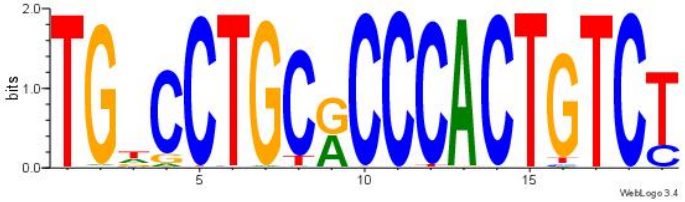

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.117351

Alignment:
MGGGATATAATCTCCTGGTG
---CTCCTGACCTCGTGATC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

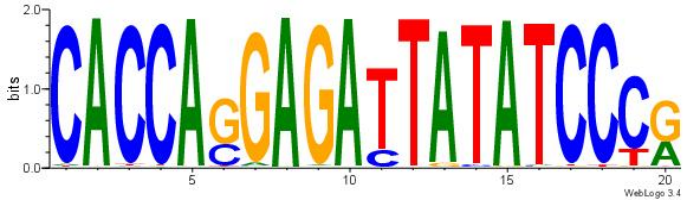

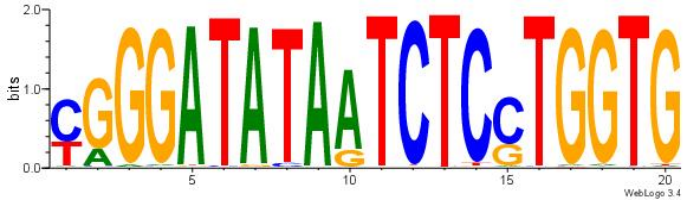

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.117355

Alignment:
CGGCTTCATTCTTGAAGTC
CTCCTGACCTCGTGATC--

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

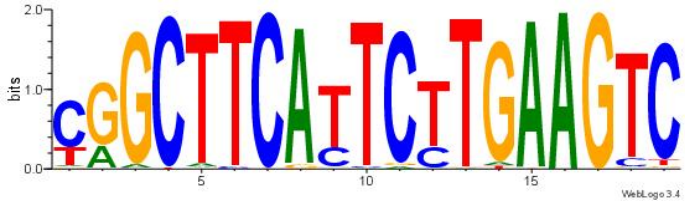

Dataset #: 1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.117487

Alignment:

```
GGGCTCCCACAGTGCAGCGG
--GATCACGAGGTCAGGAG-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

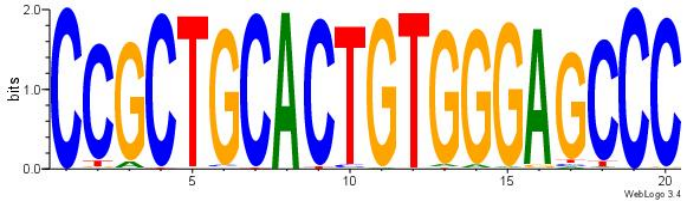

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

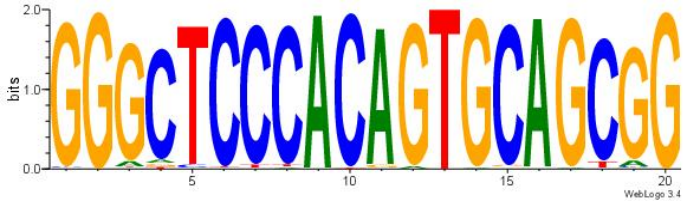

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.11773

Alignment:
AAATTACCCAGTCTCAGGTA
-GATCACGAGGTCAGGAG--

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

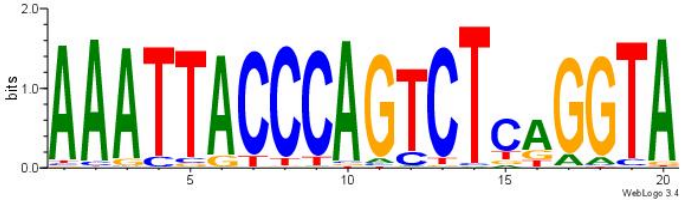

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

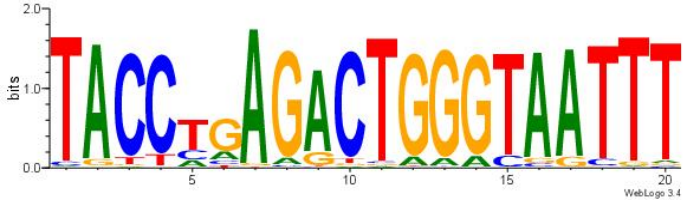

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.118313

Alignment:
CTGAGGACCTGAGGTCRTA
CTCCTGACCTCGTGATC--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

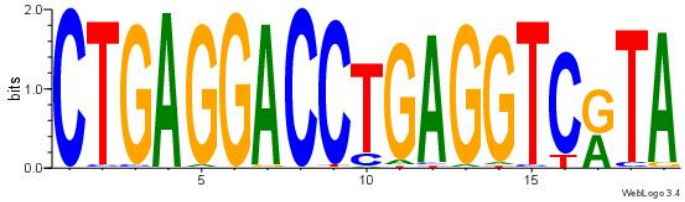

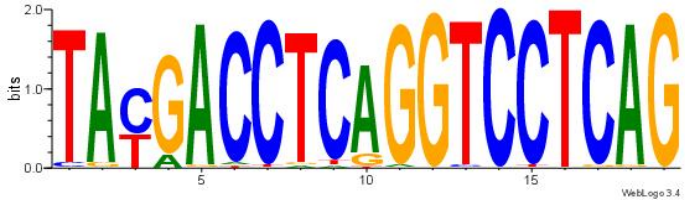

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.119036

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CTCCTGACCTCGTGATC-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

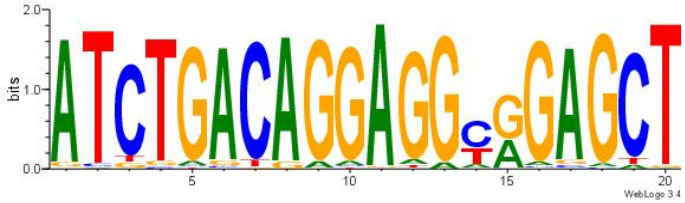

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

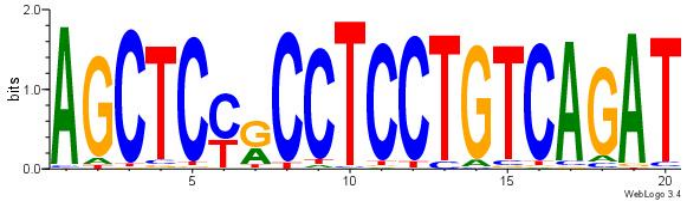

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.119441

Alignment:

```
CACCAGACTCAGGAGCCCAG
CTCCTGACCTCGTGATC---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

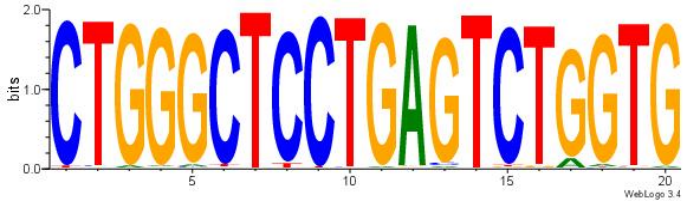

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

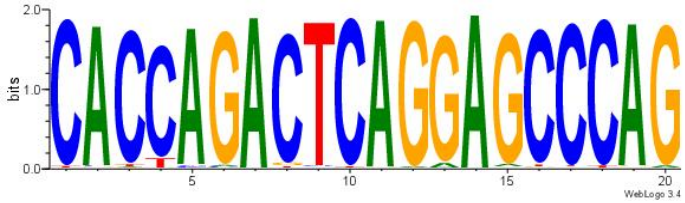

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.119681

Alignment:
CTCATTTAATCCTCACAAC
CTCCTGACCTCGTGATC--

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

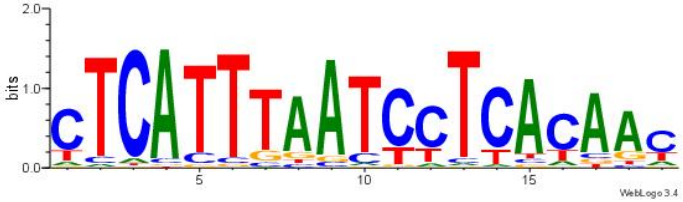

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

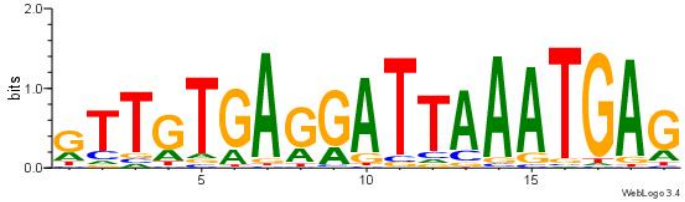

Dataset #: 1
Motif ID: 249
Motif name: Motif 249
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.119778

Alignment:
TTGGTGGTCTCTTCACA
CTCCTGACCTCGTGATC

Original motif Consensus sequence: TGTGAAGAGACCACCAA

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

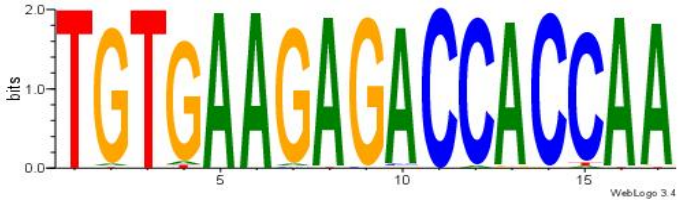

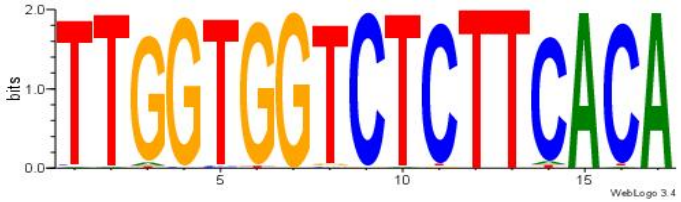

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.120226

Alignment:

```
GGGTGCAGGMGGGCTGAGT
--GATCACGAGGTCAGGAG
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

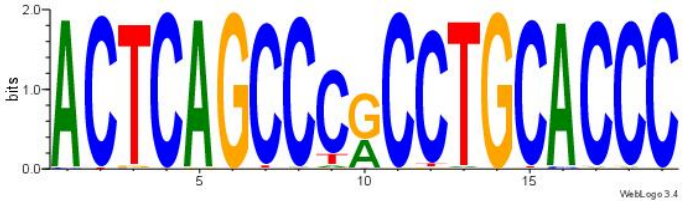

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

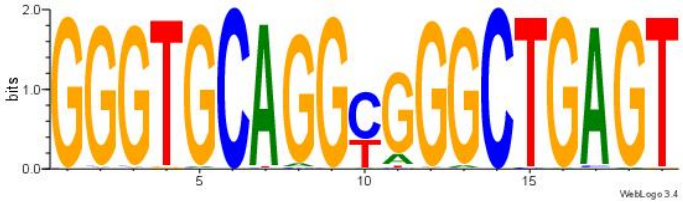

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.120447

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CTCCTGACCTCGTGATC---
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

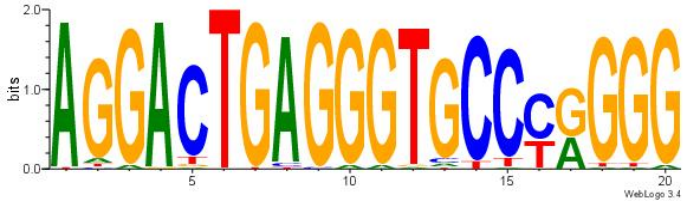

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

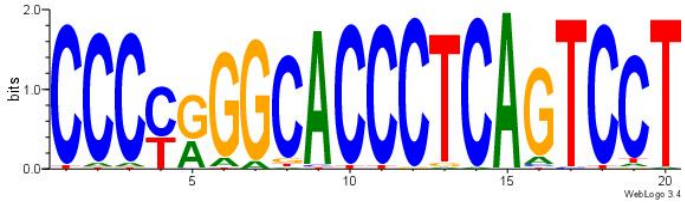

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.120744

Alignment:
AGCTCCCAGCGTGAGCGACG
-GATCACGAGGTCAGGAG--

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

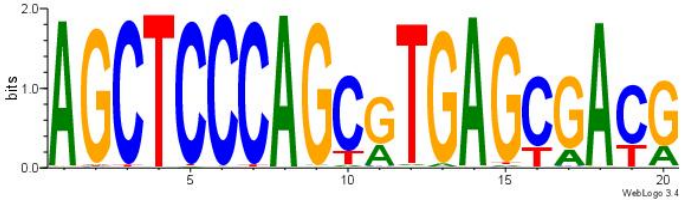

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

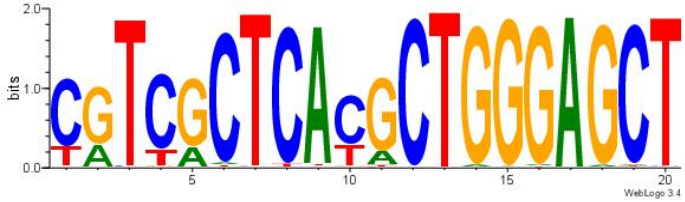

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.121841

Alignment:
ACAGGCTGTCCCAGGATTC
--CTCCTGACCTCGTGATC

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

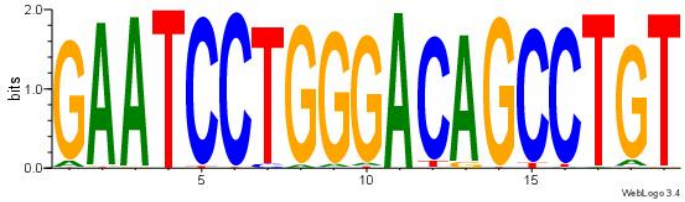

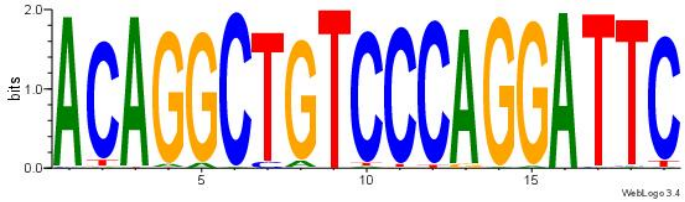

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.123063

Alignment:

```
TWTACCTATGTAACAAACCT
GATCACGAGGTCAGGAG---
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

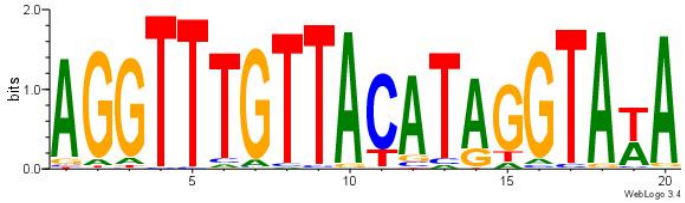

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

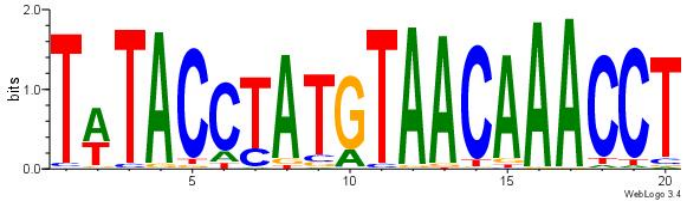

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.123182

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
GATCACGAGGTCAGGAG---
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

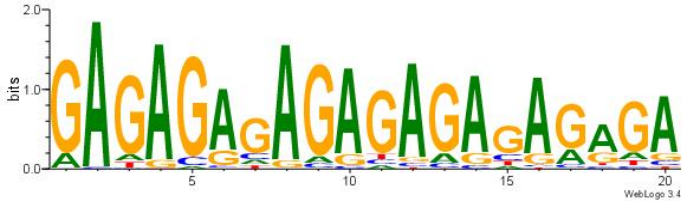

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

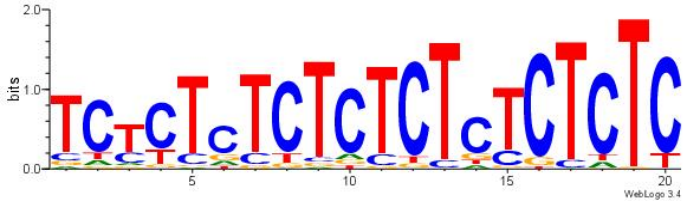

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.123388

Alignment:
CATTTCCAWCTGAGGTAC
GATCACGAGGTCAGGAG-

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

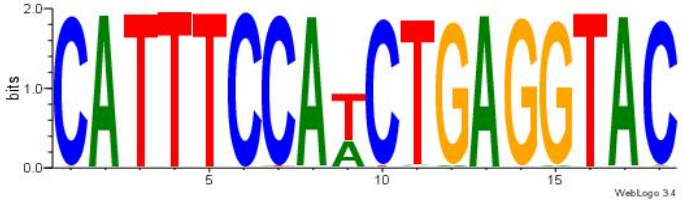

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

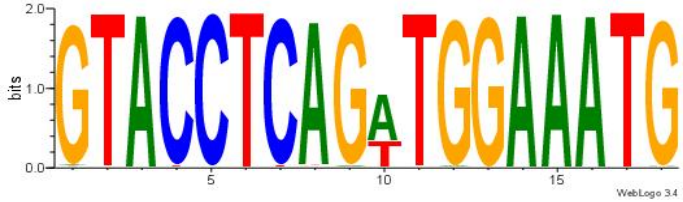

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.123933

Alignment:
CCCAAATCTCATSTTGAAT
--CTCCTGACCTCGTGATC

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

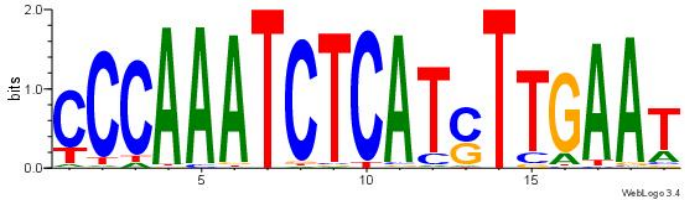

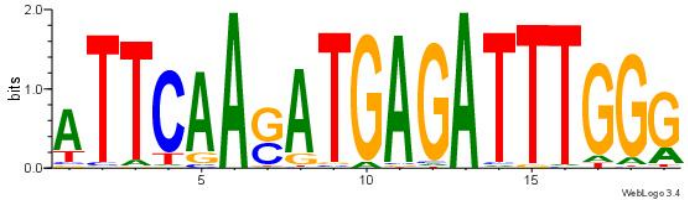

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.12414

Alignment:

```
CTTGCCCAAGGTCACACAGC
-GATCACGAGGTCAGGAG--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

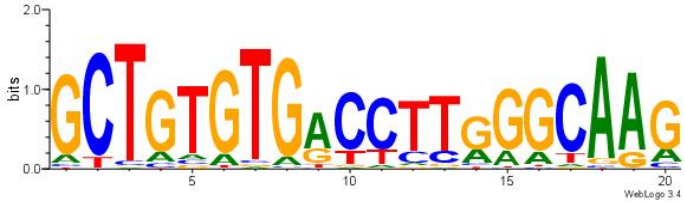

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

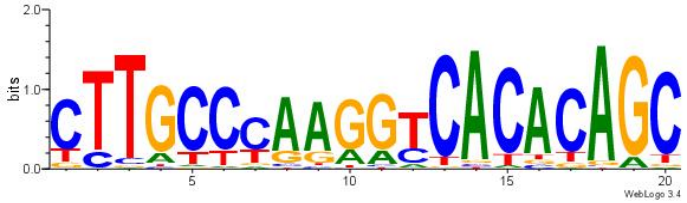

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.124164

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-GATCACGAGGTCAGGAG--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

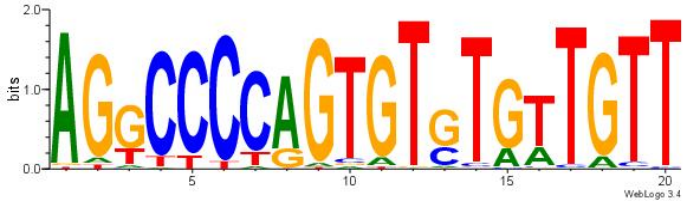

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

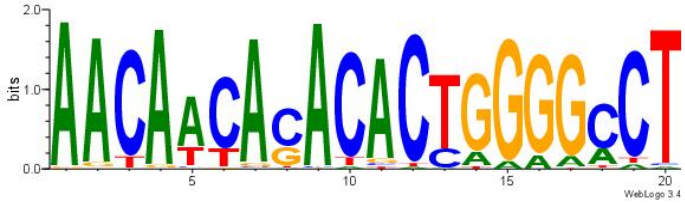

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.124292

Alignment:
AAGGAACAAACTCCRGACAC
-GATCACGAGGTCAGGAG--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

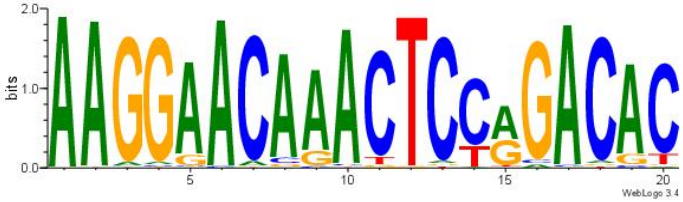

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

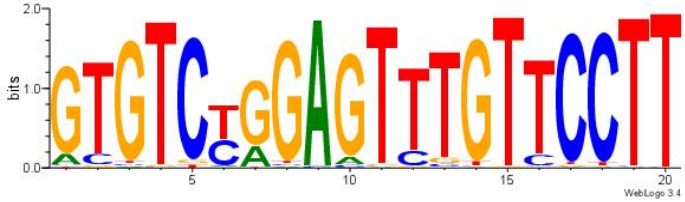

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.124695

Alignment:
AATTAAAAGACACAGACTG
GATCACGAGGTCAGGAG--

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

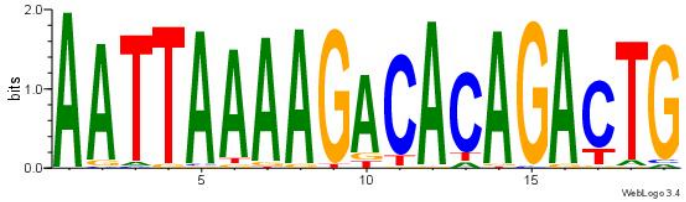

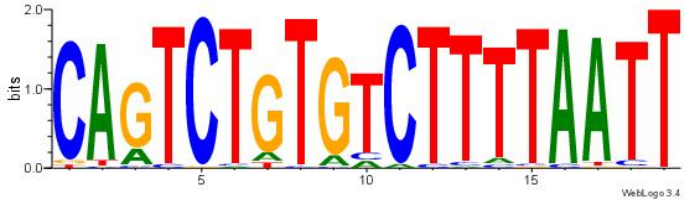

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.124965

Alignment:
GCGMGCGGGAACCGGGGCT
GATCACGAGGTCAGGAG--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

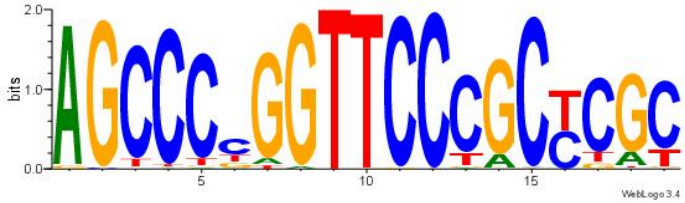

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

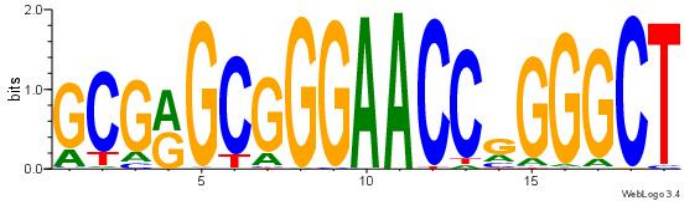

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.125032

Alignment:

```
TCCCTCCCGGACGGGGYGGC
---CTCCTGACCTCGTGATC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

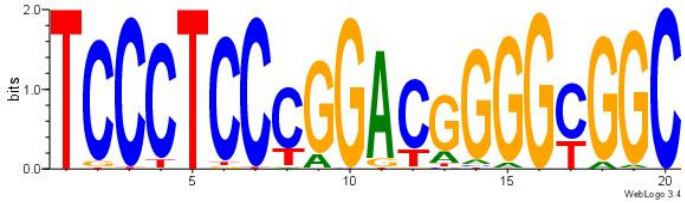

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

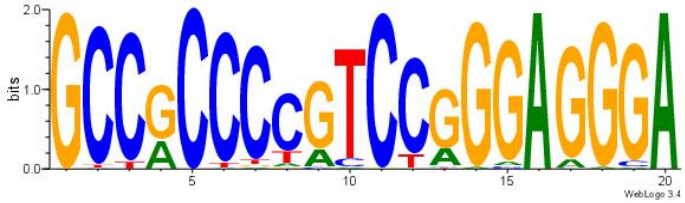

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.125485

Alignment:
AATGACCAATTGAGAGC
GATCACGAGGTCAGGAG

Original motif Consensus sequence: AATGACCAATTGAGAGC

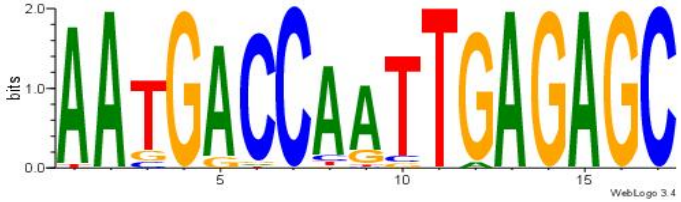

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

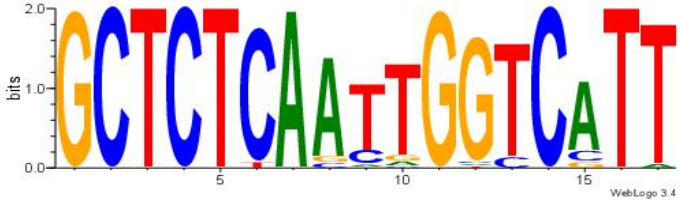

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.125916

Alignment:
CMTAGYACAGTGCCTGGCAC
--GATCACGAGGTCAGGAG-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

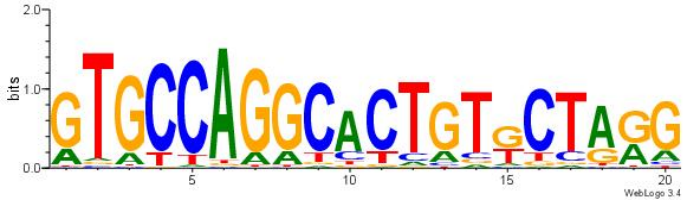

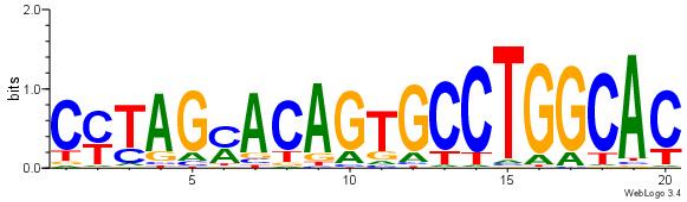

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.125968

Alignment:

```
ATTAGCYRGGCRTGGTGGC
GATCACGAGGTCAGGAG--
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

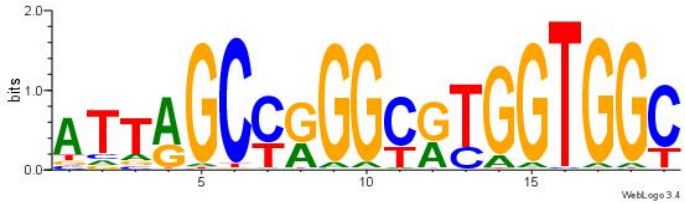

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

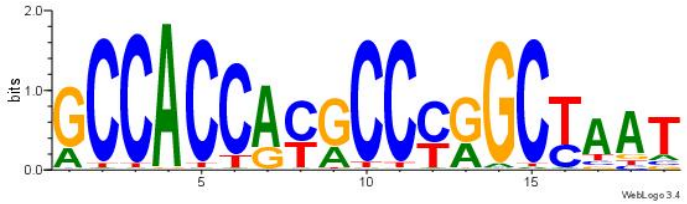

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.126

Alignment:

```
GGGATTGTAAATACACCAAT
--GATCACGAGGTCAGGAG-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

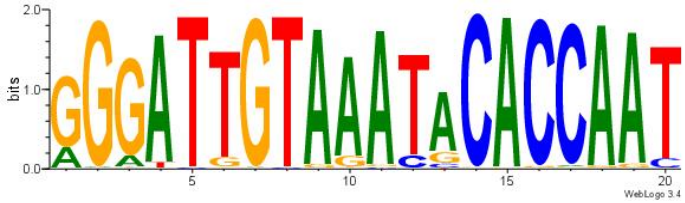

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.126373

Alignment:
GAGGAGGRGGAGGDGGV
GATCACGAGGTCAGGAG

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

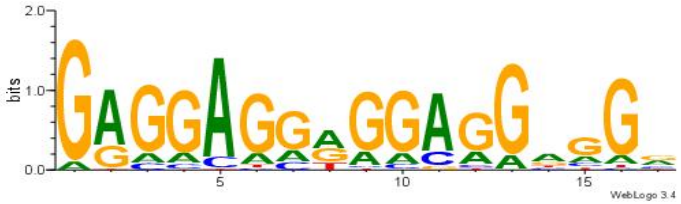

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

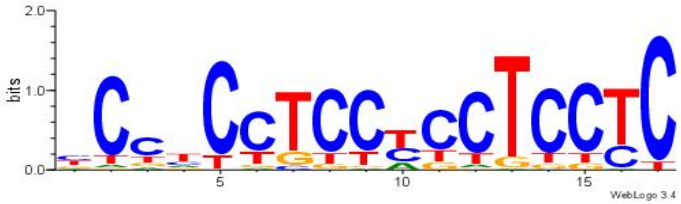

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.1269

Alignment:
CCTTGGCCAGCCCAGAAAG
-GATCACGAGGTCAGGAG-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

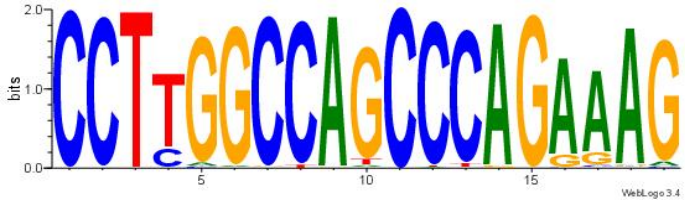

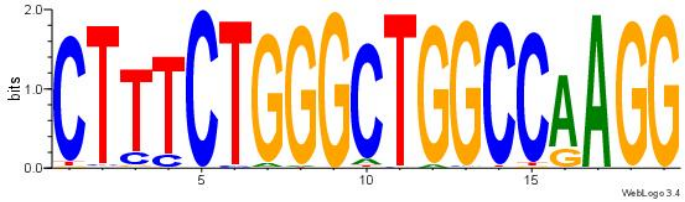

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.127912

Alignment:

```
CTGGGCRACAGAGYRAGACY
--GATCACGAGGTCAGGAG-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

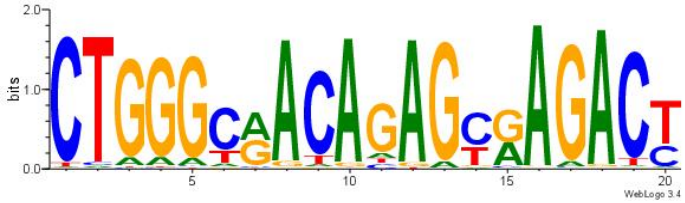

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

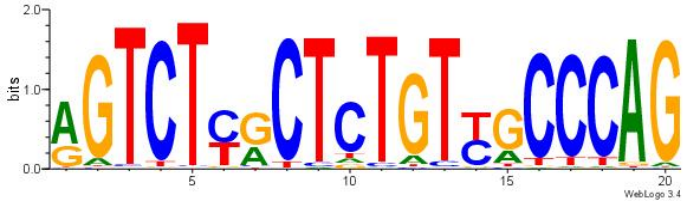

Dataset #:	1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.128088

Alignment:

```
CATTAGATTCTCATAGGA
GATCACGAGGTCAGGAG-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

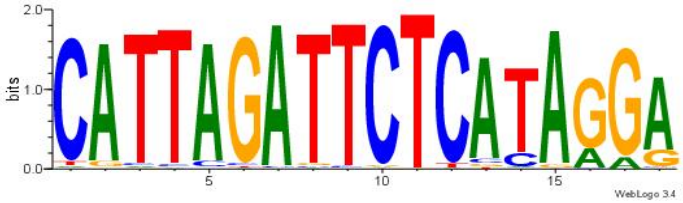

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

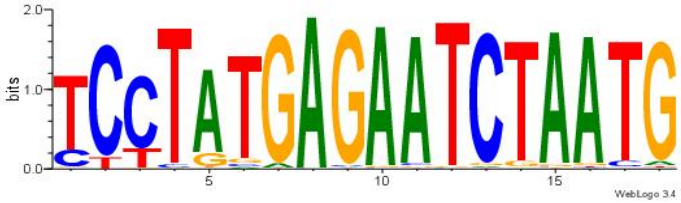

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.128734

Alignment:
GGTTTTCCATTCCTGAG
GATCACGAGGTCAGGAG

Original motif Consensus sequence: CTCAGGAATGGAAAACC

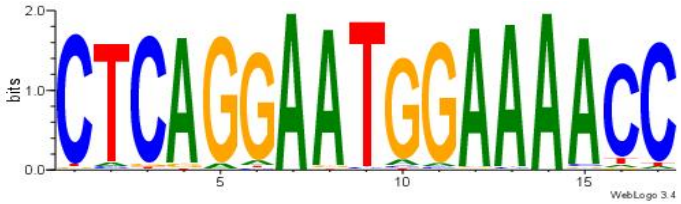

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

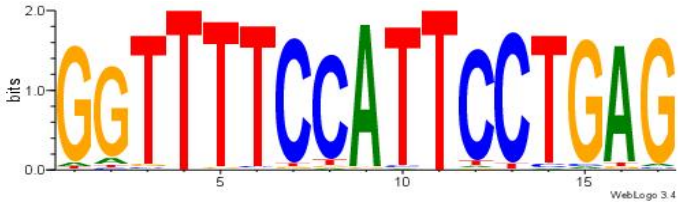

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.129172

Alignment:
ACACATCACAAAGCAGTTTC
-CTCCTGACCTCGTGATC--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

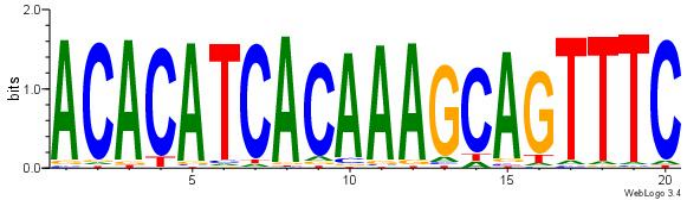

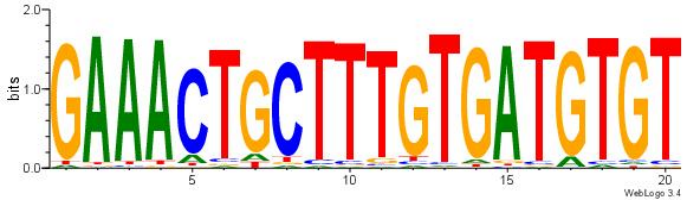

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.129476

Alignment:

```
AGGTCCTTCAGGAGGTATTC
--CTCCTGACCTCGTGATC-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

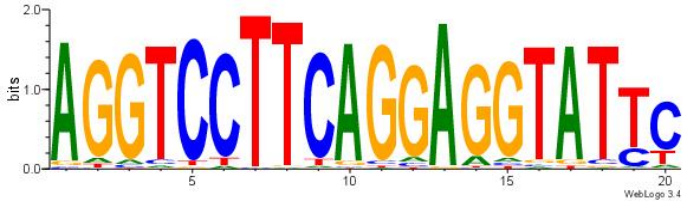

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

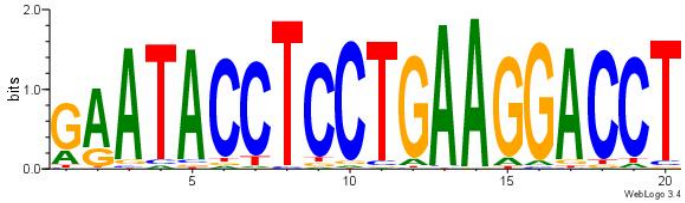

Dataset #:	1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.130165

Alignment:
TTYTTGTTGTTGTTGTT
CTCCTGACCTCGTGATC

Original motif Consensus sequence: AACAACAACAACAAMAA

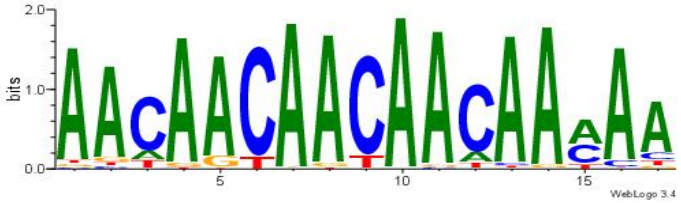

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

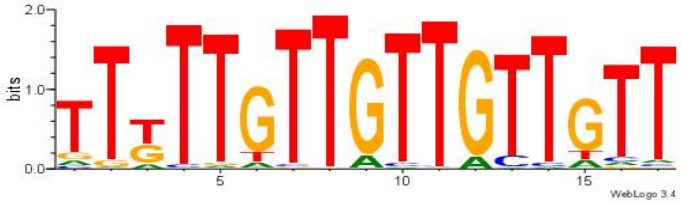

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.13022

Alignment:
CCCACGCCCACCCGGAACT
-CTCCTGACCTCGTGATC-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

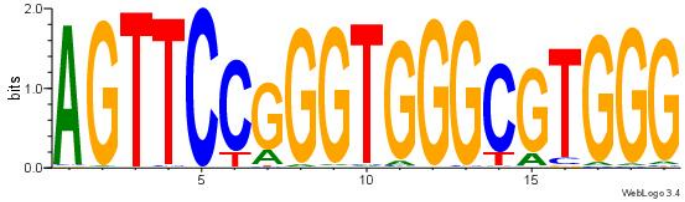

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

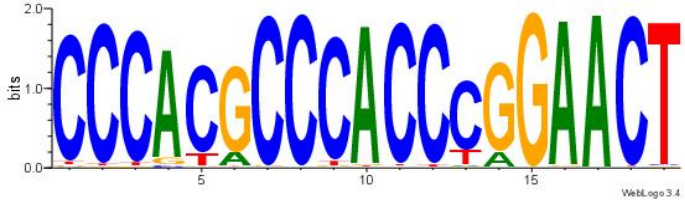

Dataset #: 1 Motif ID: 61 Motif name: Motif 61

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

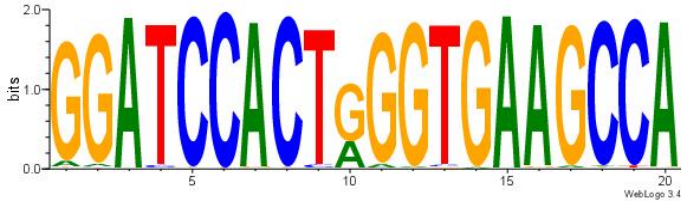

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

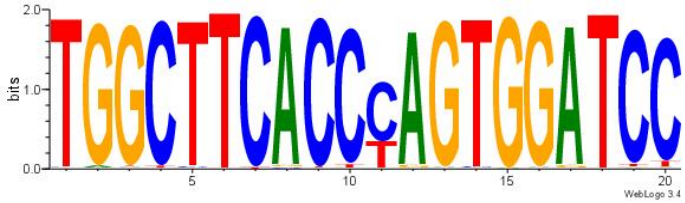

Best Matches for Motif ID 61 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.110456

Alignment:
GGCACTGCTGGGGGACCCAG
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

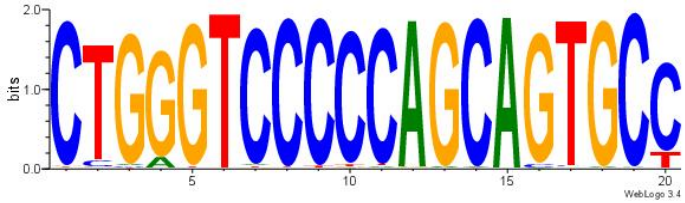

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

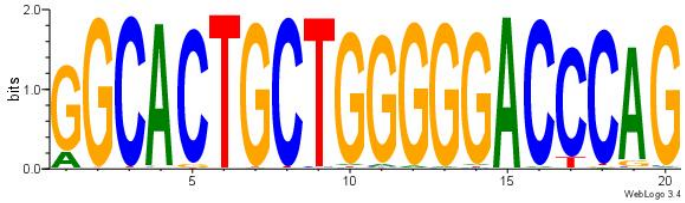

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116364

Alignment:

ACACATCACAAAGCAGTTTC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

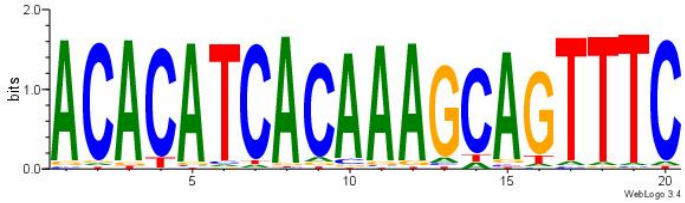

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

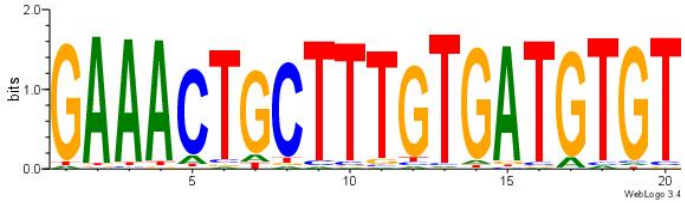

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117839

Alignment:
CCGCTGCACTGTGGGAGCCC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

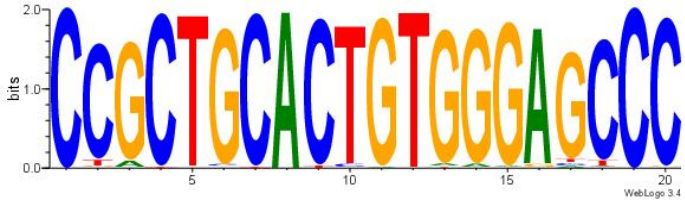

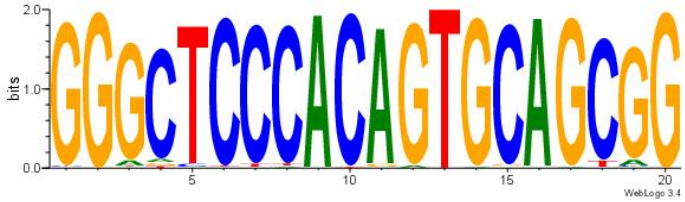

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125399

Alignment:

```
AGAGCCAAATCATGARTGAA
GGATCCACTGGGTGAAGCCA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

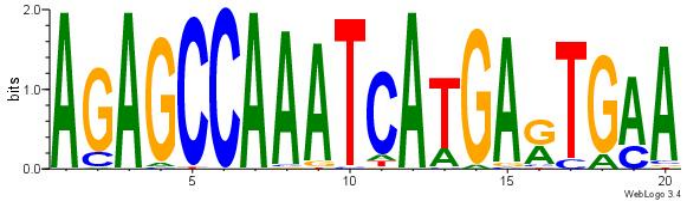

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

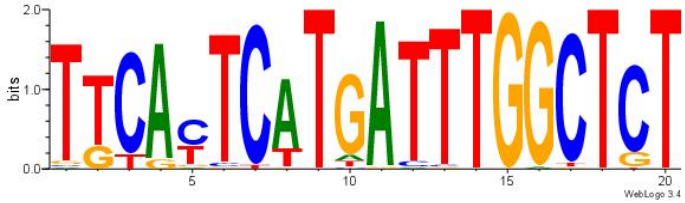

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128668

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
GGATCCACTGGGTGAAGCCA
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

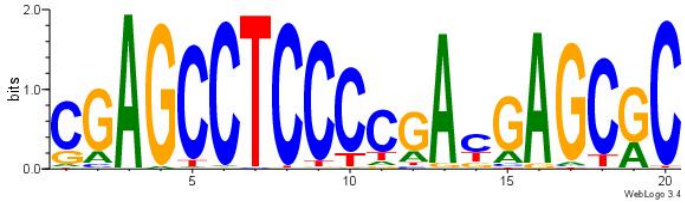

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

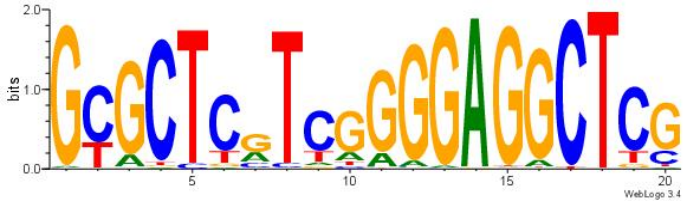

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.130927

Alignment:
TTGGTAGGATCCGTGATGCC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

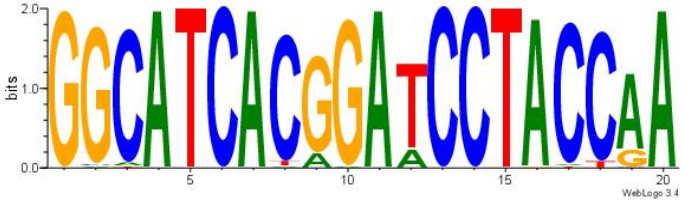

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

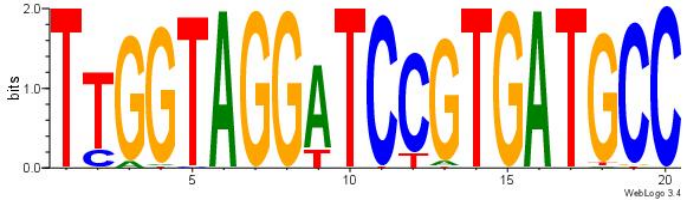

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133658

Alignment:
GCCKCCCCGTCCGGGAGGGA
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

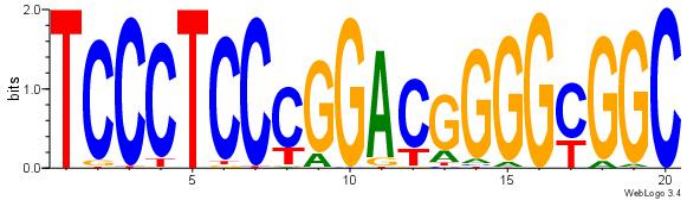

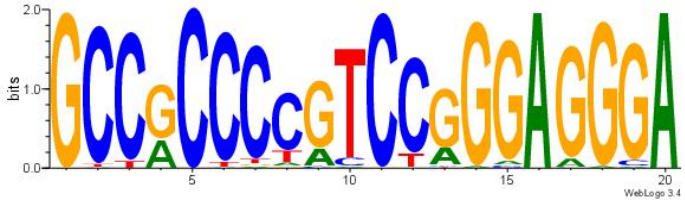

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136726

Alignment:

```
GCTCCACCCAGTTCGAGCTT
GGATCCACTGGGTGAAGCCA
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

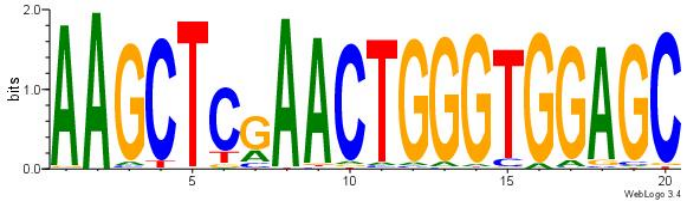

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

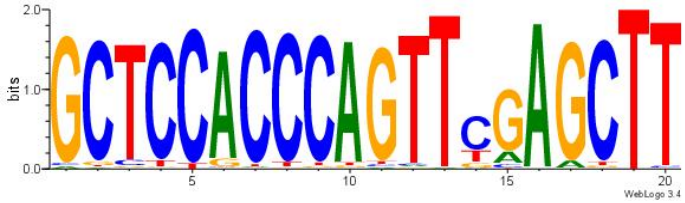

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137252

Alignment:
GGTTCATCTCACTAGGGAGT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

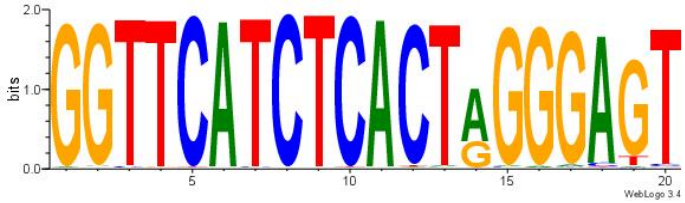

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

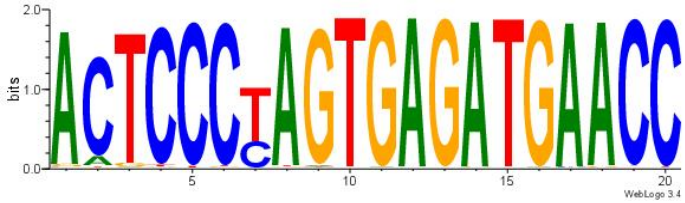

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140609

Alignment:
GCCTCCTTGAGCTGTGGTGG
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

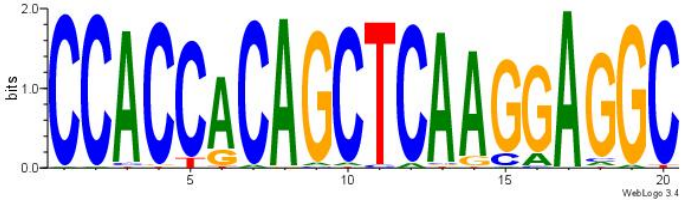

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

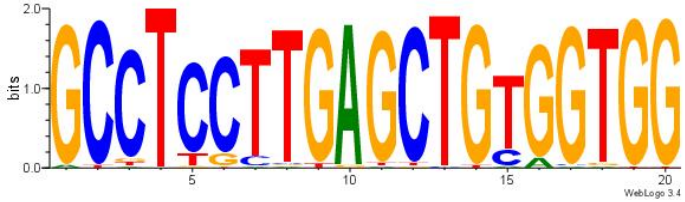

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142947

Alignment:
AAGCTGAGGGAGCCGGCTCC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

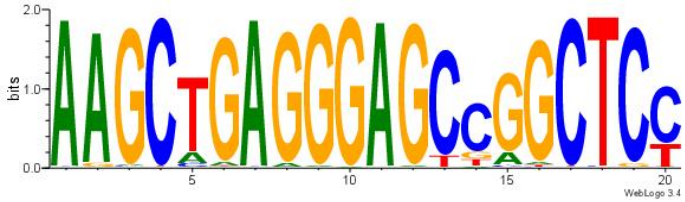

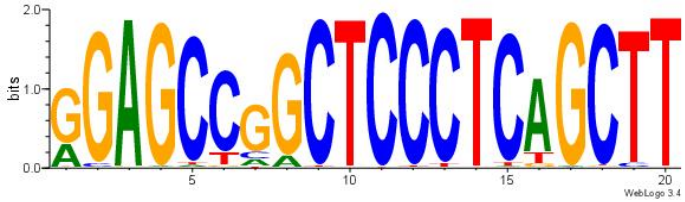

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14595

Alignment:

```
ATGATCCAGCAATYCCACTH
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

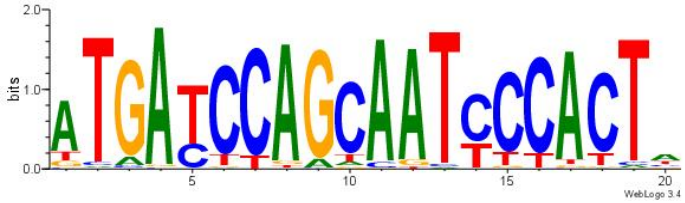

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

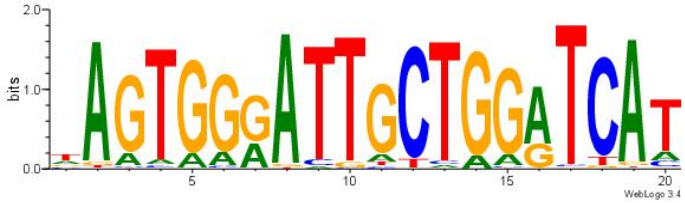

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147235

Alignment:
AGGTCCTTCAGGAGGTATTC
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

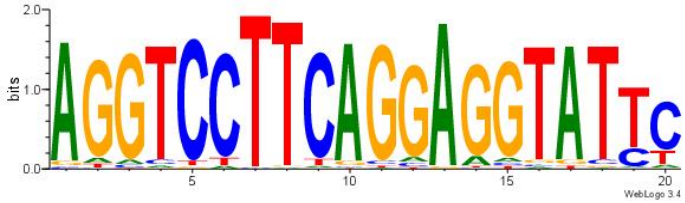

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

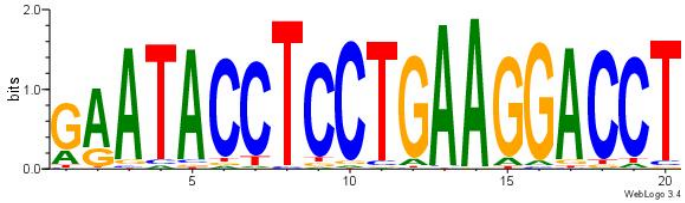

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147858

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

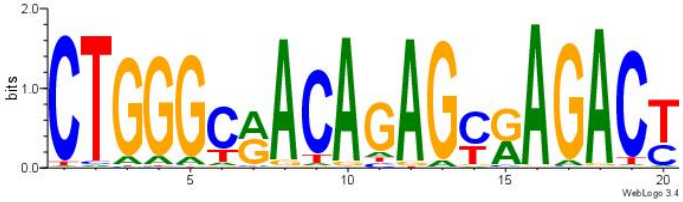

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

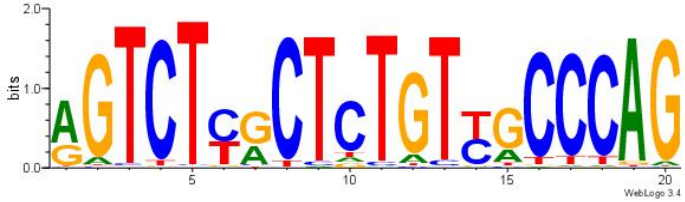

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148174

Alignment:
TAATTTTATGTGTCAACTTG
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

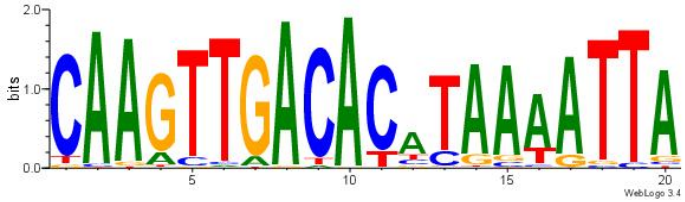

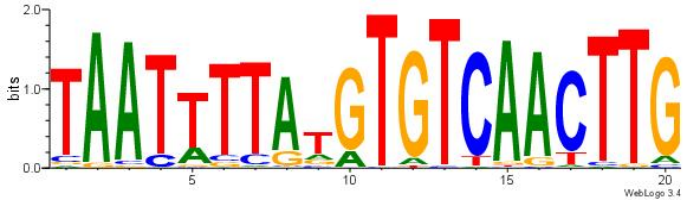

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148531

Alignment:

```
TGGAGAACCTTTATGTCTAG
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

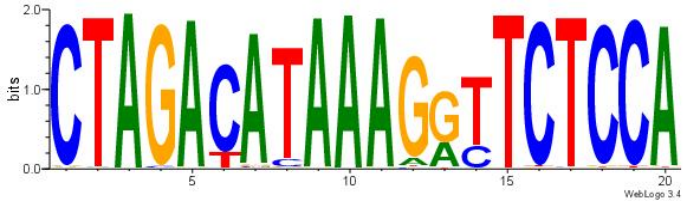

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

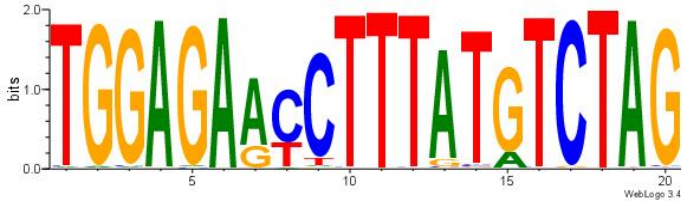

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14888

Alignment:
GTCTCWAMAAAAAAWAMAAA
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

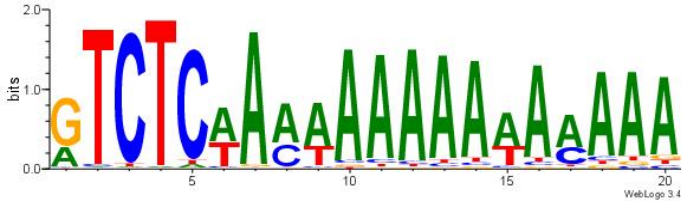

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

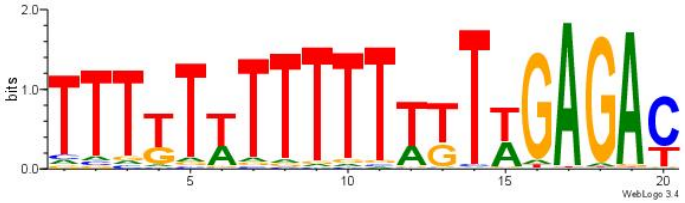

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149225

Alignment:
TWTACCTATGTAACAAACCT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

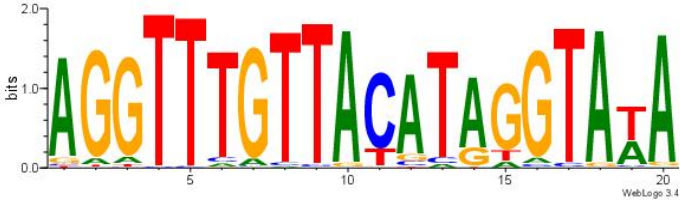

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

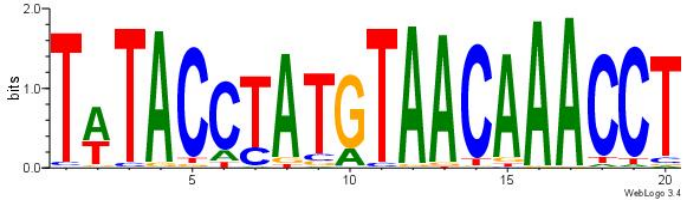

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149458

Alignment:
CAAGGGTATAYGAGTAGCTG
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

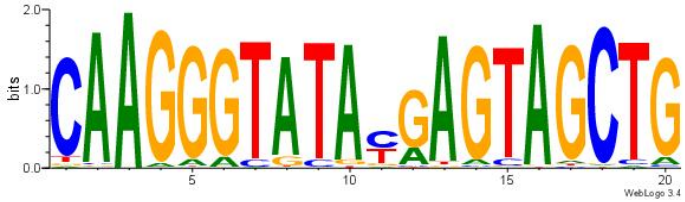

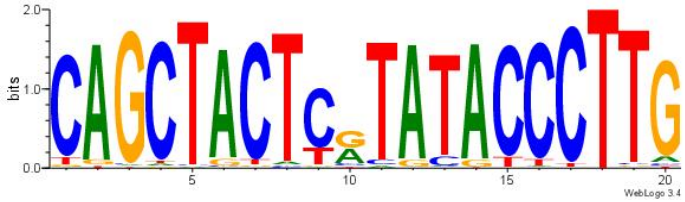

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149583

Alignment:
GGATTTMKGACTTGCATGGG
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

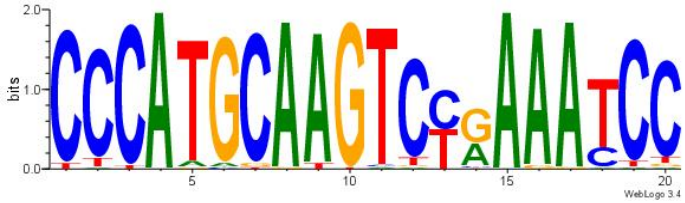

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

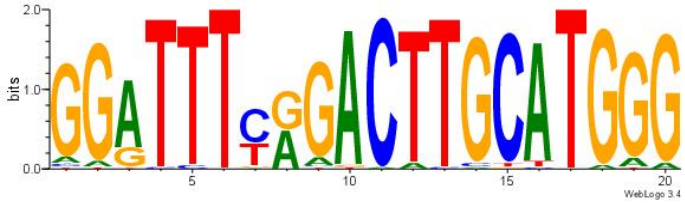

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150104

Alignment:

```
ATGGACAYTTRGGTTGHTTC
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

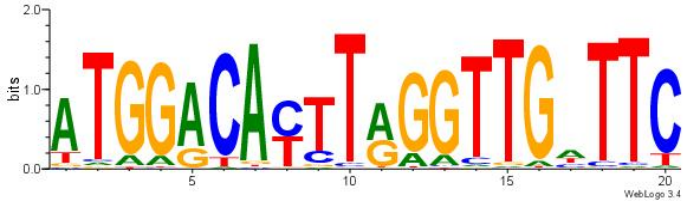

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

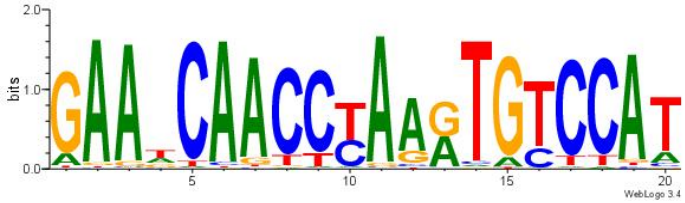

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150699

Alignment:
AAGGAACAAACTCCRGACAC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

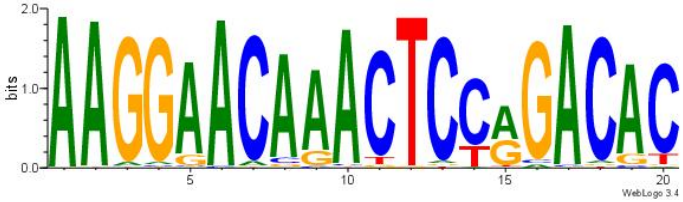

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

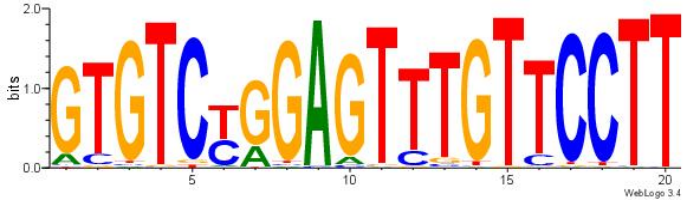

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15097

Alignment:
AAGACCTTCCAGTGGGACAA
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

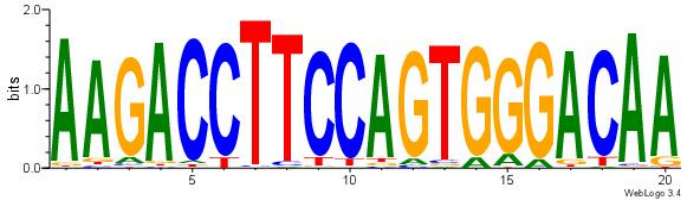

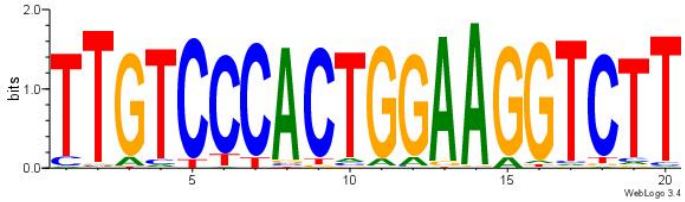

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1511

Alignment:

```
AGTAGGTGCTCARTAAATRB
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

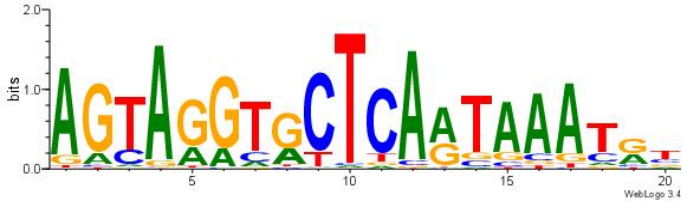

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

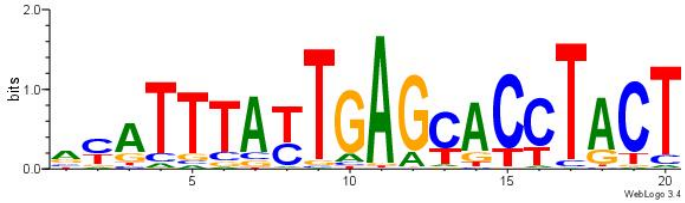

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151624

Alignment:

```
ATCTGACAGGAGGYRGAGCT
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

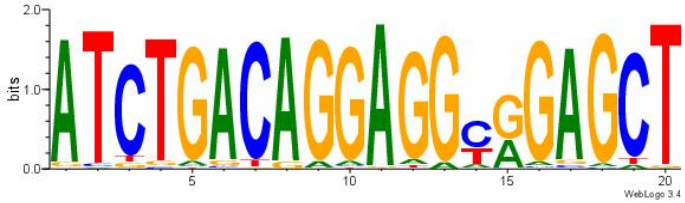

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

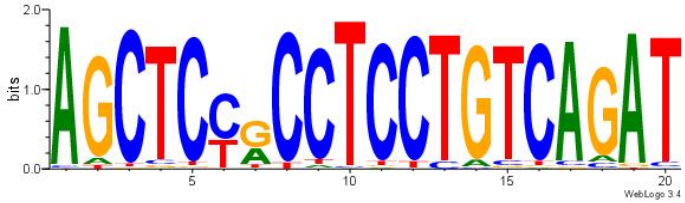

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152469

Alignment:
AAATTACCCAGTCTCAGGTA
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

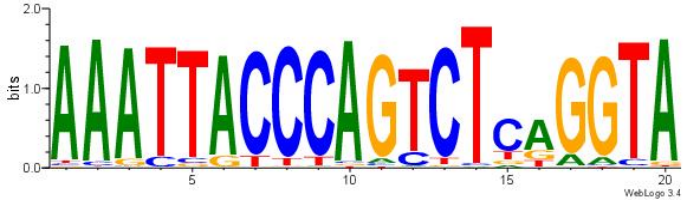

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

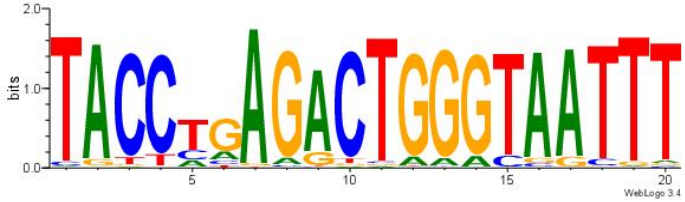

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152529

Alignment:
CGTCGCTCACGCTGGGAGCT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

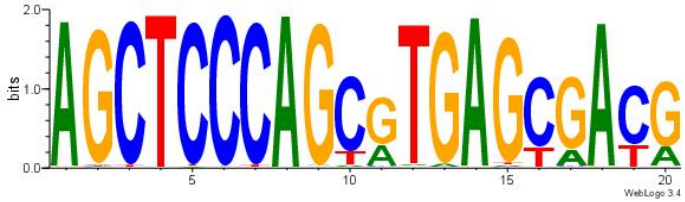

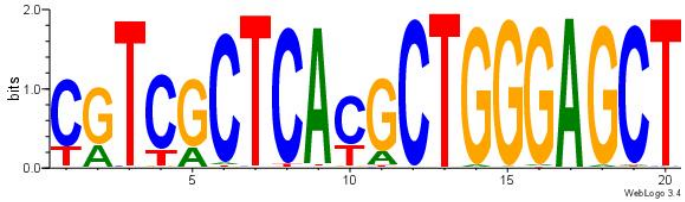

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153697

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

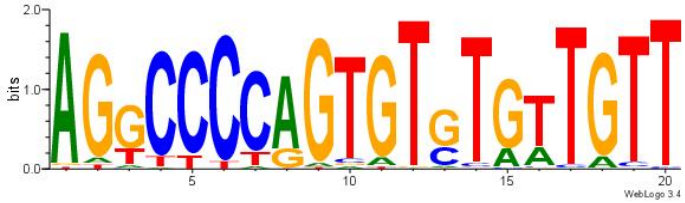

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

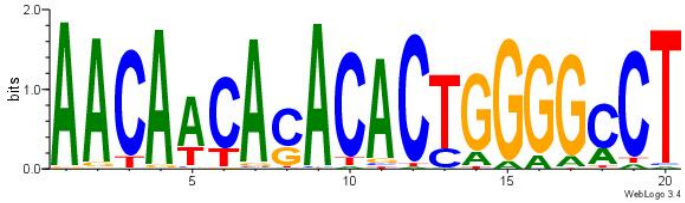

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154891

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

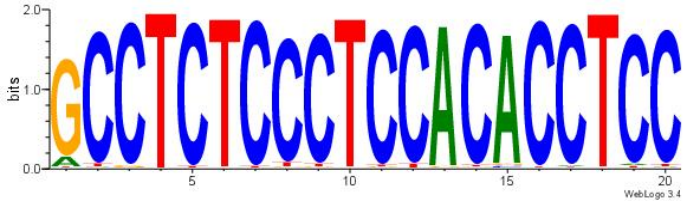

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

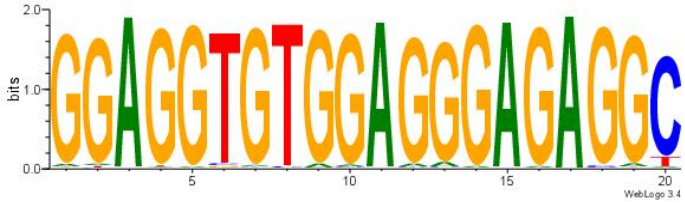

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154921

Alignment:
MTCCTCCAGACCCCAGAATG
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

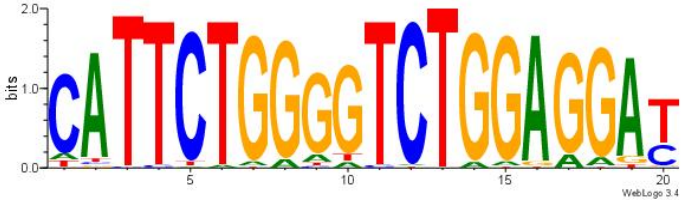

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

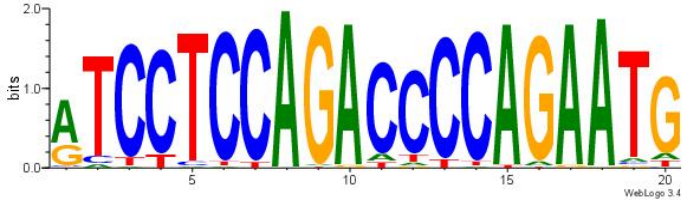

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158231

Alignment:
GACTGGCAGGCAGCTCCACC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

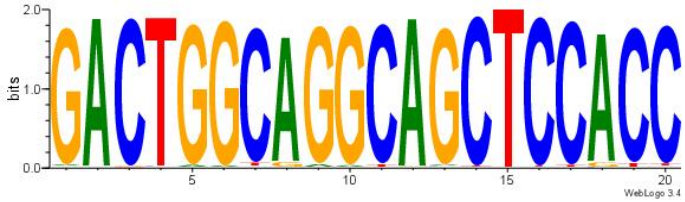

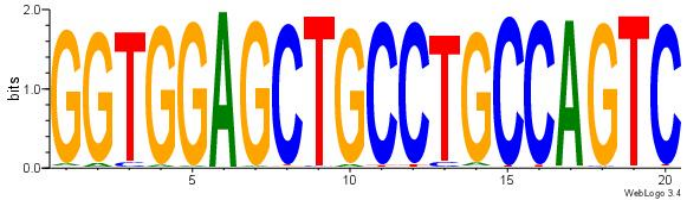

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158364

Alignment:
TCKMGCCACTGCACTCCAGC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

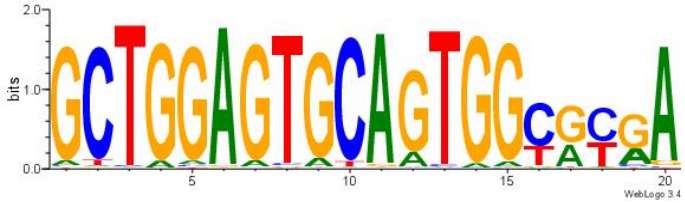

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

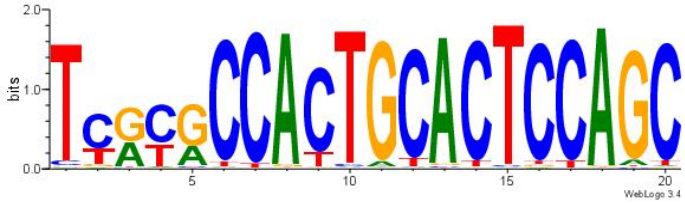

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159709

Alignment:
TYTGTCMTTTTGTGACTGGC
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

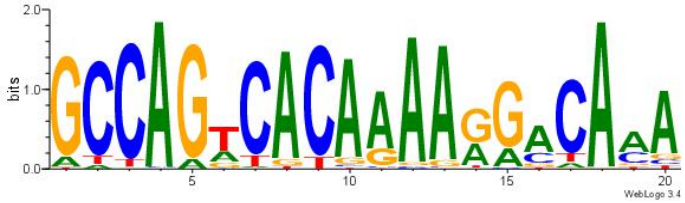

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

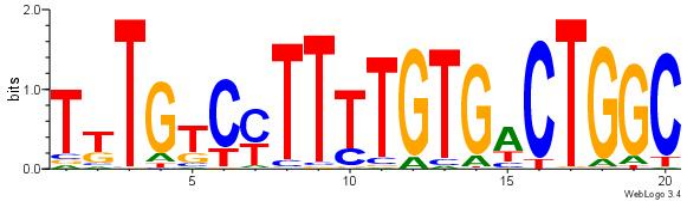

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.162359

Alignment:
GTGCCAGGCACTGTKCTARG
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

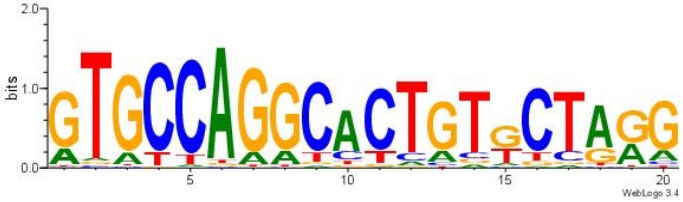

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

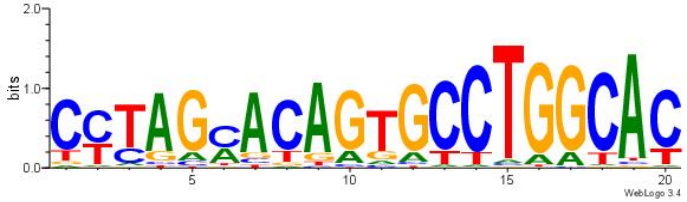

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.16239

Alignment:
CGGCGCTGMGCTCGATTTCT
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

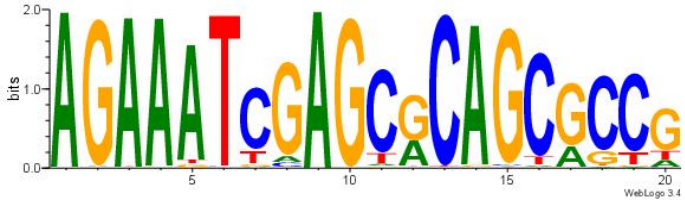

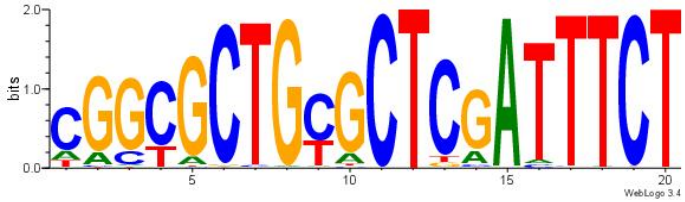

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164031

Alignment:
CGCGGCGCTTGCGGGCCAGC
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

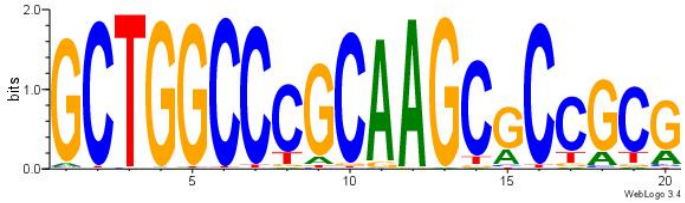

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

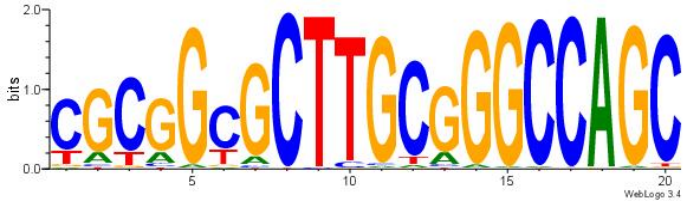

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.164614

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

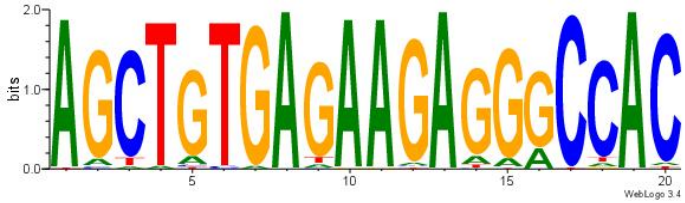

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

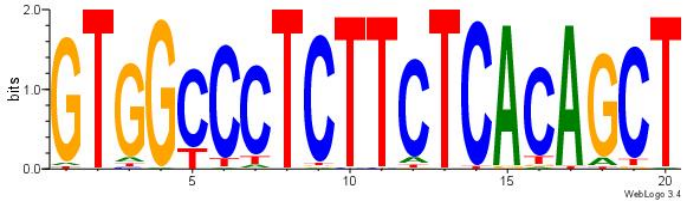

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.164673

Alignment:
GGCAATGCCTCGCCCTGCTT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

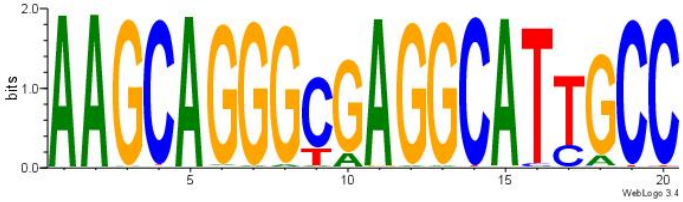

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

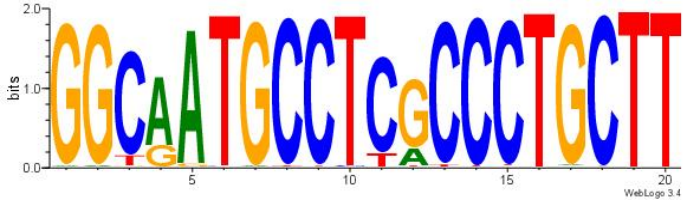

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.164896

Alignment:
AAATTAGGCCAATTAATAAC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

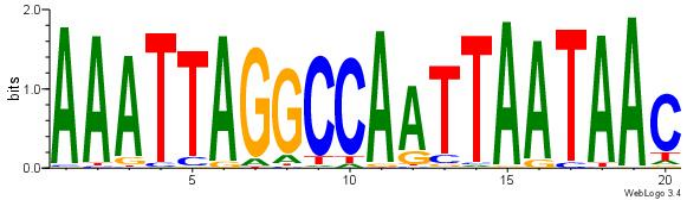

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.166061

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

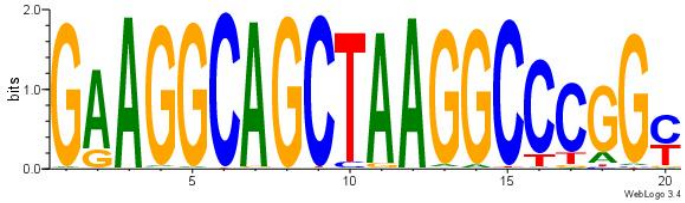

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

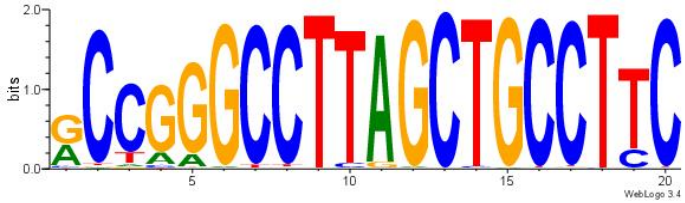

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.166155

Alignment:
TAAAAGACTACAWATTGGGT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

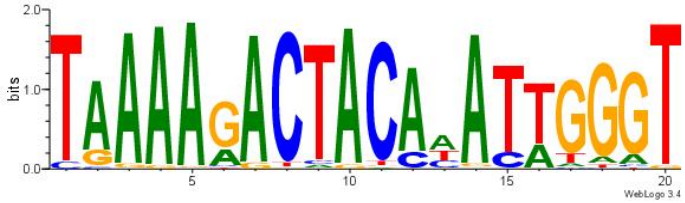

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

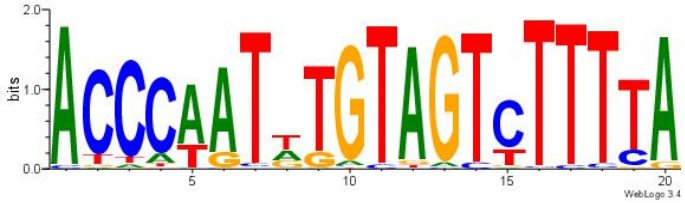

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.166559

Alignment:
GAAAGGGAACTCCCTGACCC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

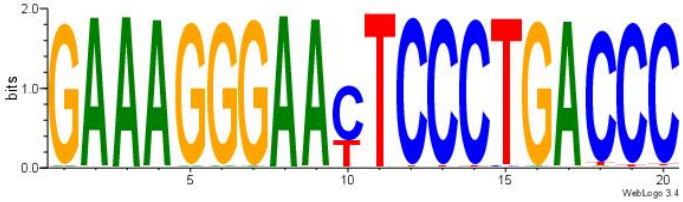

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

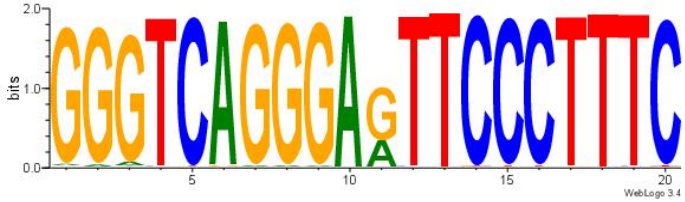

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.167573

Alignment:
CTGGCCCTCAATGGTTAAAC
TGGCTTCACCCAGTGGATCC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

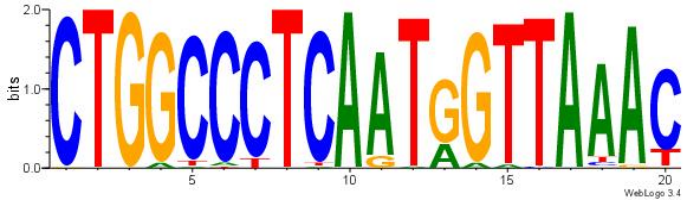

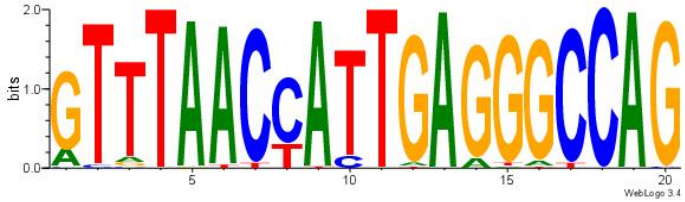

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167768

Alignment:
KKCACCTTGATCTTGGACTT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

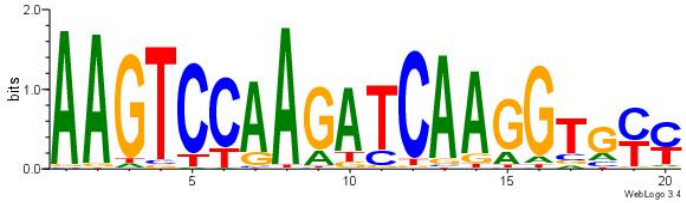

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

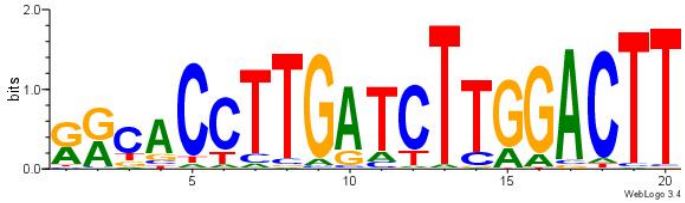

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.169073

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

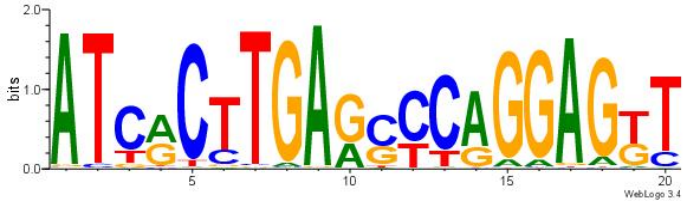

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

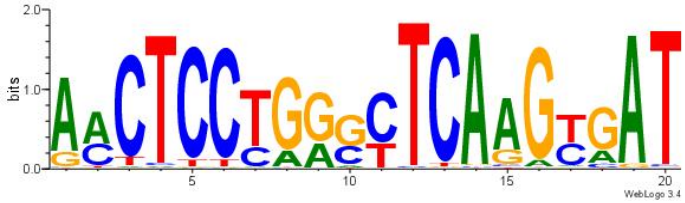

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.170765

Alignment:
CTTGCCCAAGGTCACACAGC
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

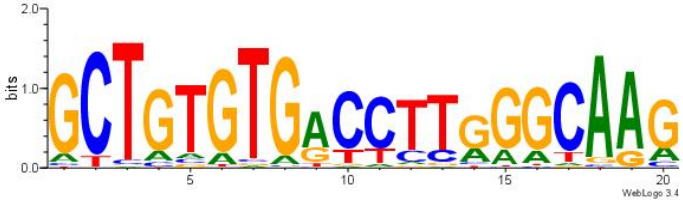

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

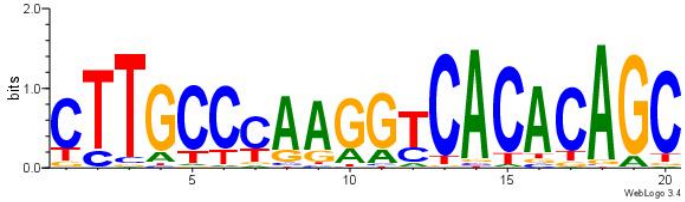

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.17136

Alignment:
AAAATCACAAGCATTCCTAT
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

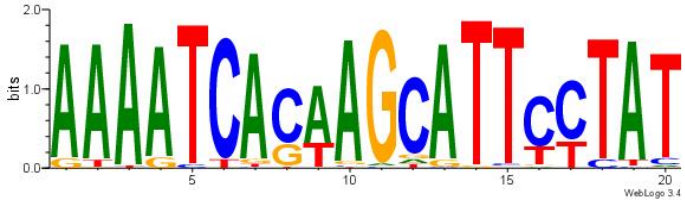

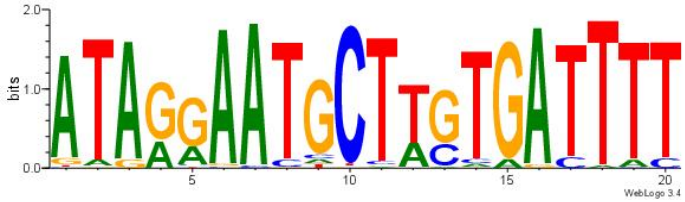

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.172002

Alignment:

```
AGTGAGAACATRYRRTRTTT
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

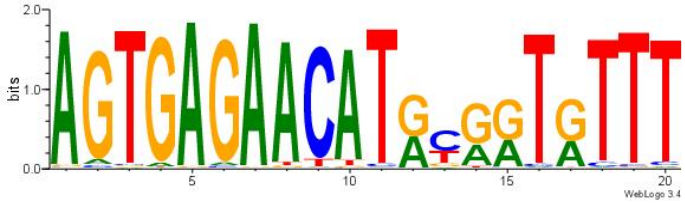

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

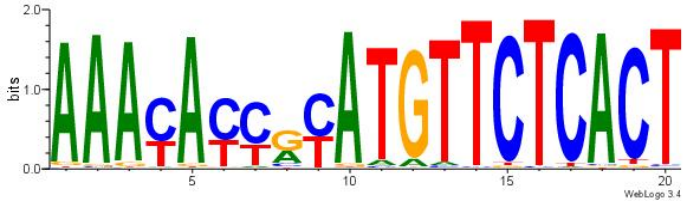

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.172208

Alignment:

```
AGGACTGAGGGTGCCYRGGG
TGGCTTCACCCAGTGGATCC
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

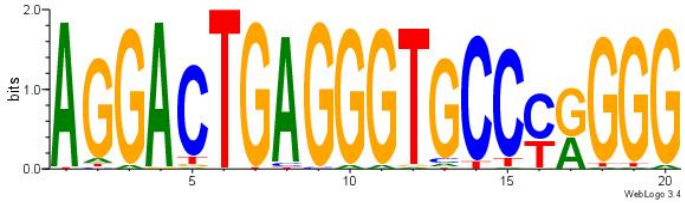

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

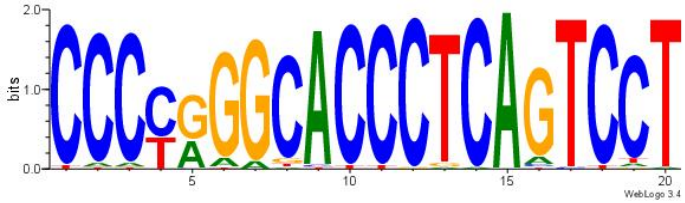

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.172932

Alignment:
AAGTTCTKGGKTACATGTGC
GGATCCACTGGGTGAAGCCA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

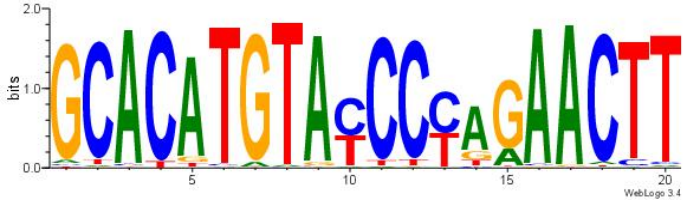

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

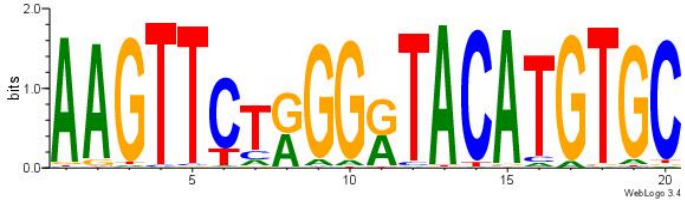

Dataset #: 1 Motif ID: 62 Motif name: Motif 62

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

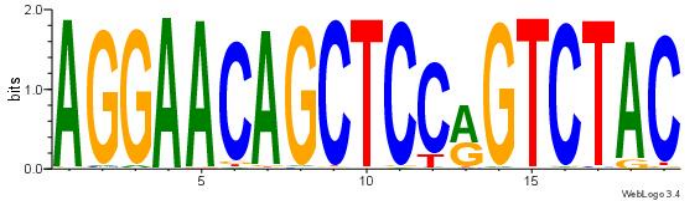

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

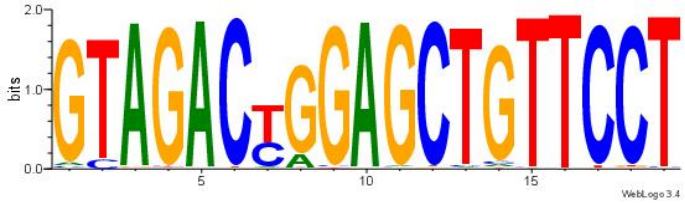

Best Matches for Motif ID 62 (Highest to Lowest)

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.108892

Alignment:

```
AGGAGCGCCTCTKCCCGGC
AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

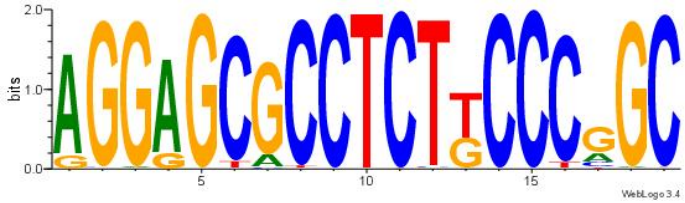

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

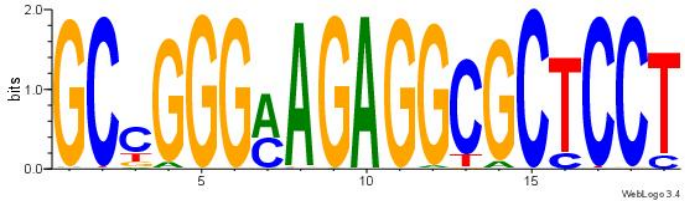

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.110299

Alignment:

AAGGAACAAACTCCRGACAC
-AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

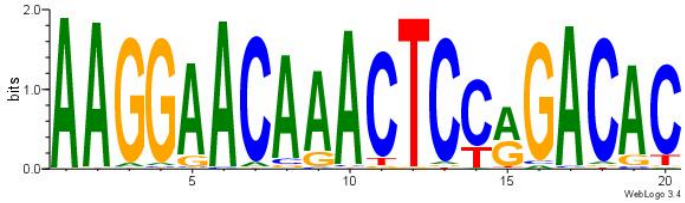

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

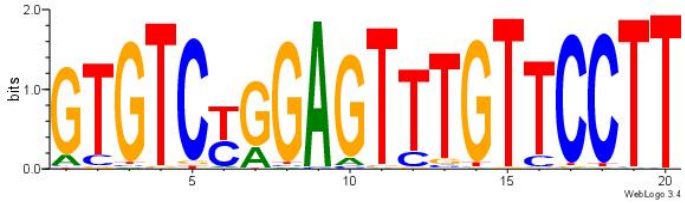

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.116495

Alignment:
ATCTGACAGGAGGYRGAGCT
-GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

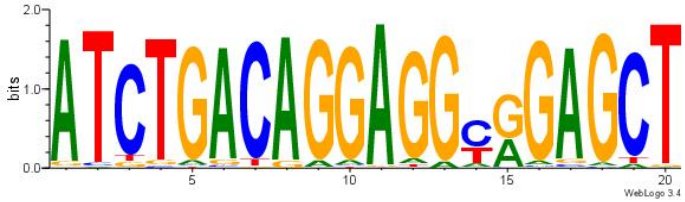

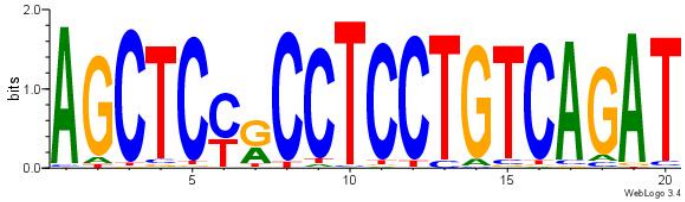

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.118299

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GTAGACKGGAGCTGTTCCT-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

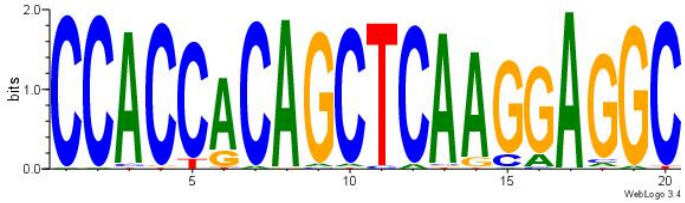

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

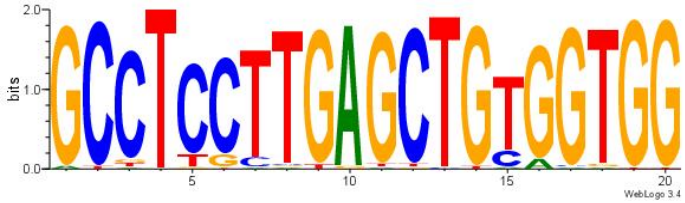

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.120152

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-GTAGACKGGAGCTGTTCCT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

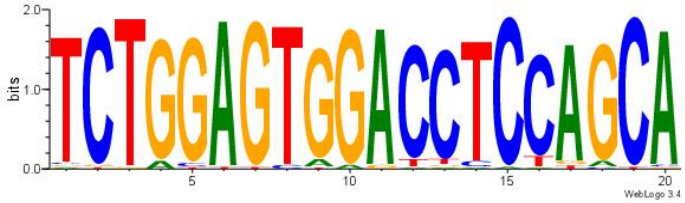

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

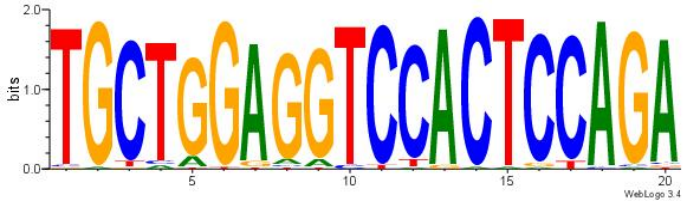

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.123707

Alignment:
AGGCTGTTTTACAGTTAAC
AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

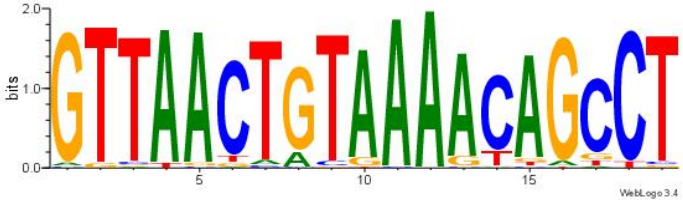

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

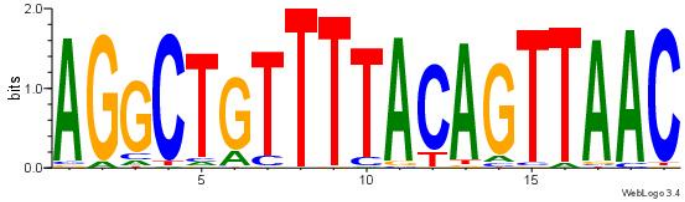

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.123724

Alignment:
KKCACCTTGATCTTGGACTT
GTAGACKGGAGCTGTTCCT-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

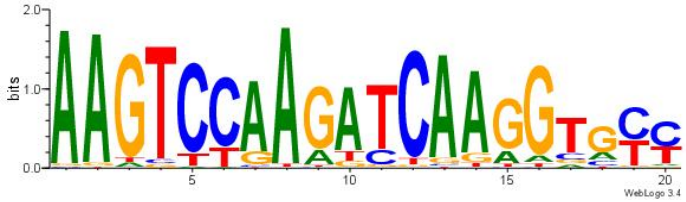

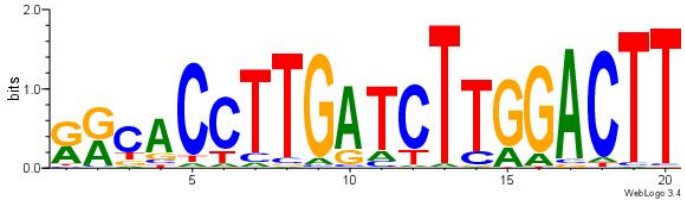

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125459

Alignment:

```
AGCCCCGGTTCCCGCYCGC
AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

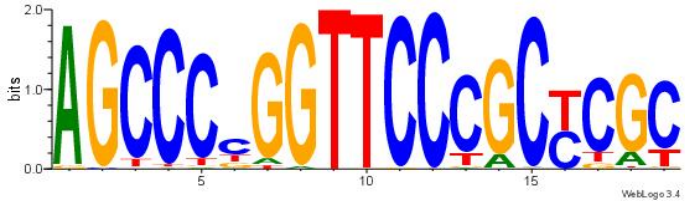

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

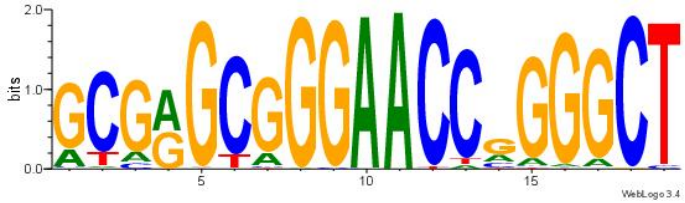

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128468

Alignment:

```
AGGAGRCMCTCTGCCTGGC
AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

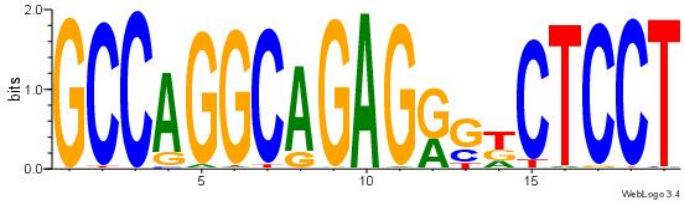

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

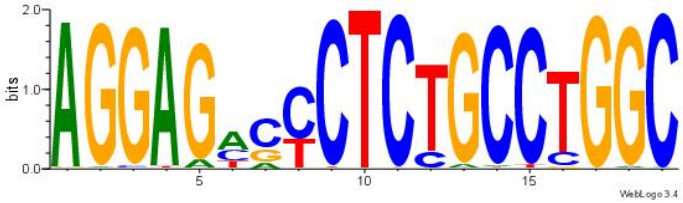

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.1291

Alignment:
AAAACCAGCAAGTTTTTAT
AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

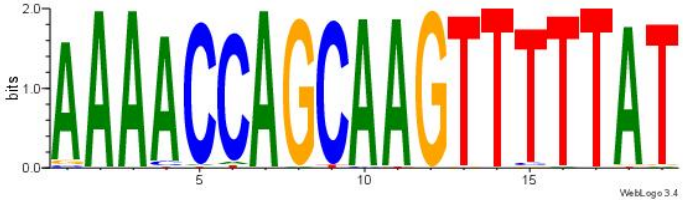

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

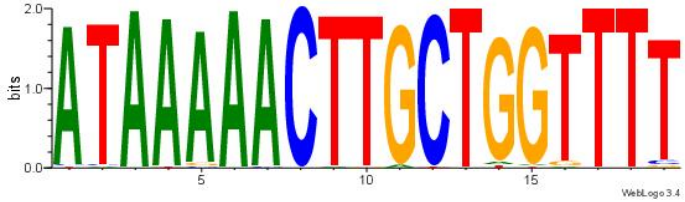

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.129269

Alignment:
CGGCGCTGMGCTCGATTTCT
AGGAACAGCTCCRGTCTAC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

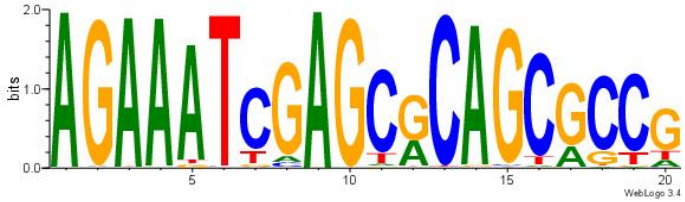

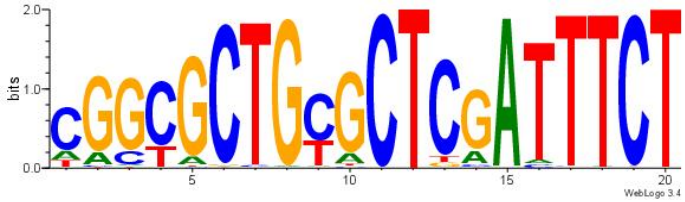

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132533

Alignment:

```
AGGASCSTCYSWGCCMGGY
AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

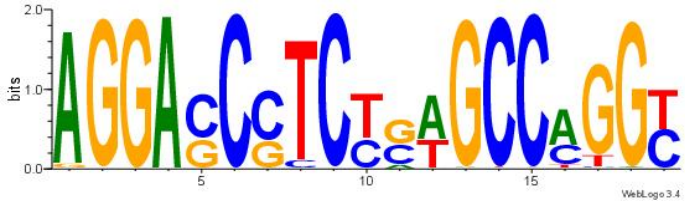

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

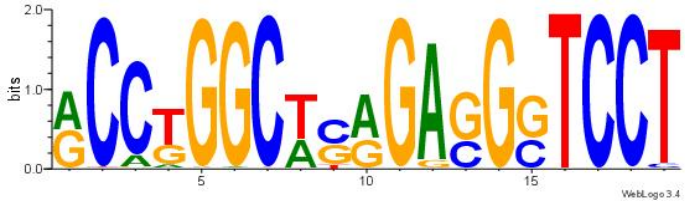

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132794

Alignment:

```
TGGAGAACCTTTATGTCTAG
-AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

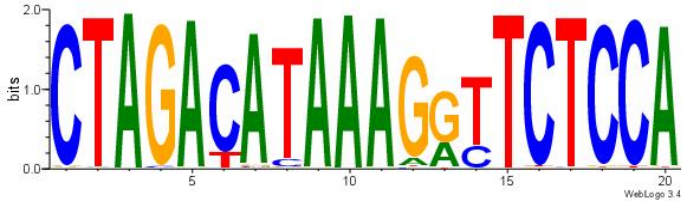

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

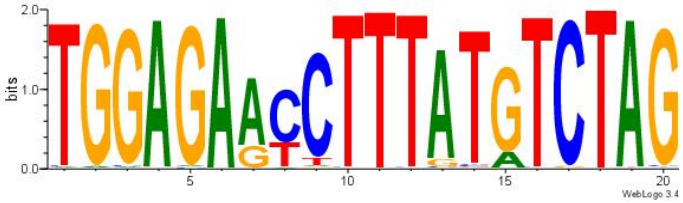

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.134409

Alignment:
GAATCCTGGGACAGCCTGT
GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

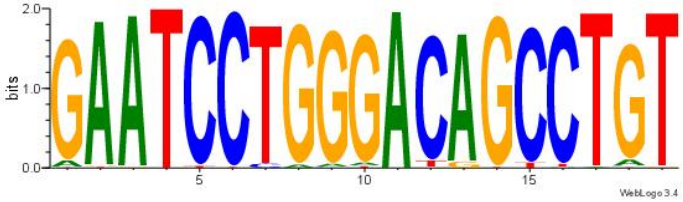

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

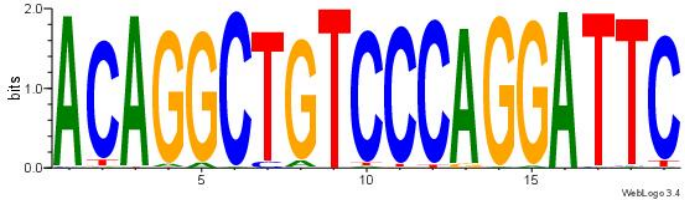

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.134537

Alignment:
GCTGGAGTGCAGTGGCRYGA
GTAGACKGGAGCTGTTCCT-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

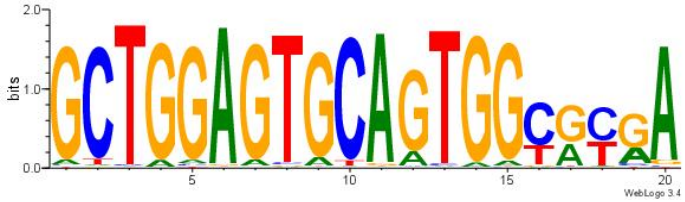

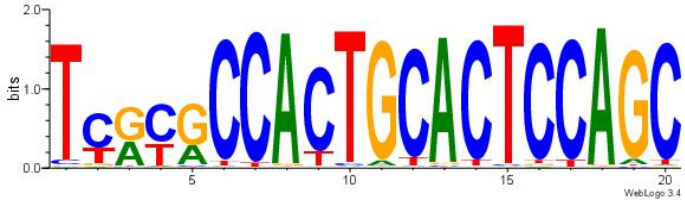

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.134573

Alignment:

```
AATCAACCCTGGYRATCAAT
-AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

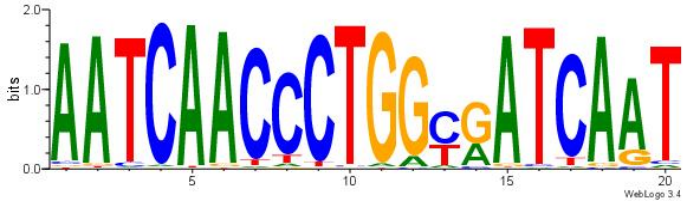

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

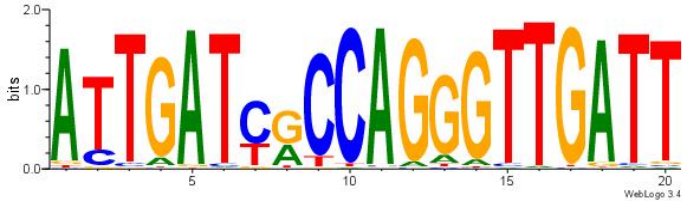

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134615

Alignment:

```
AGAGCCAAATCATGARTGAA
AGGAACAGCTCCRGTCTAC-
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

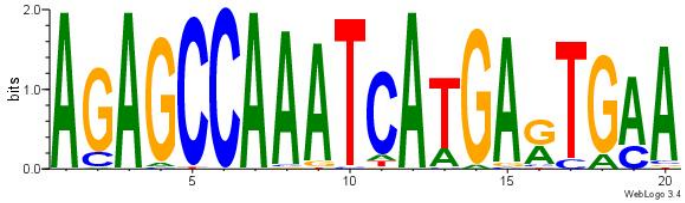

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

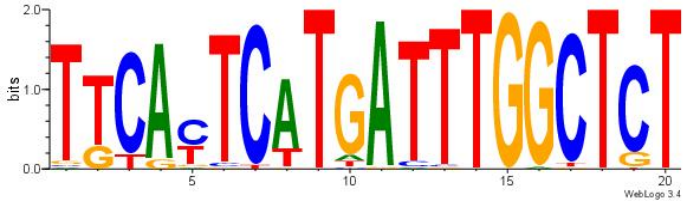

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.134646

Alignment:
TAMGACCTCAGGTCCTCAG
GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

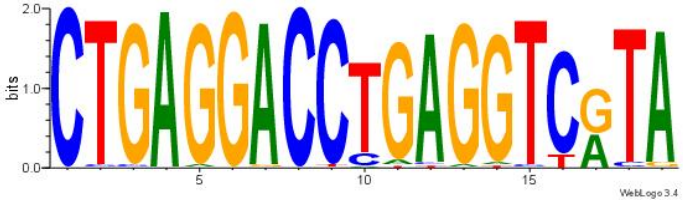

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

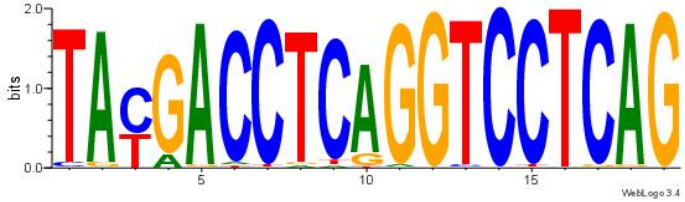

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.135452

Alignment:
GGAGCCGGCTCCCTCAGCTT
GTAGACKGGAGCTGTTCCT-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

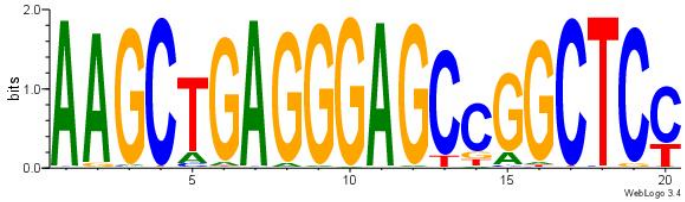

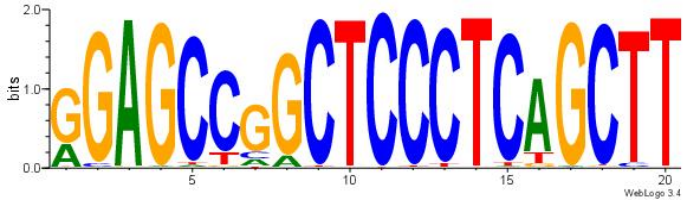

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136208

Alignment:
GGTGGGGGGGTCAGCCCCC
GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

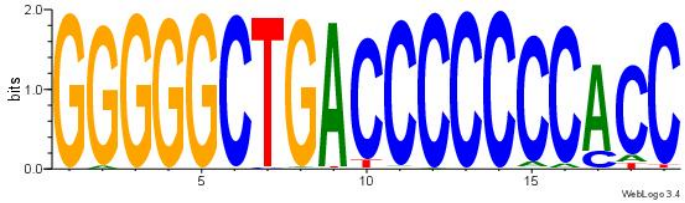

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

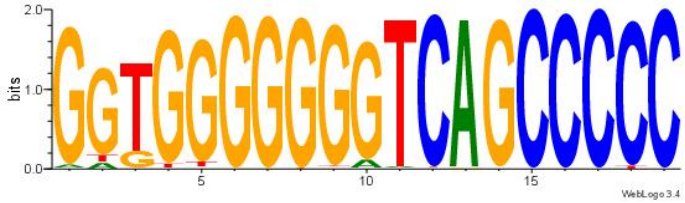

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136454

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

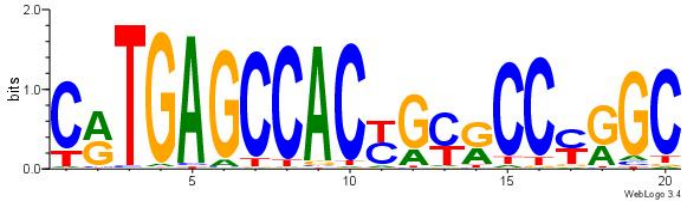

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

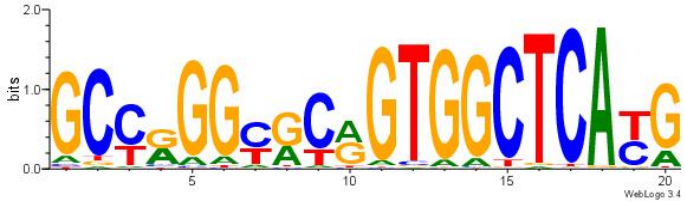

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.136592

Alignment:
TCCAAATGGGAGAAATTGGC
-GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

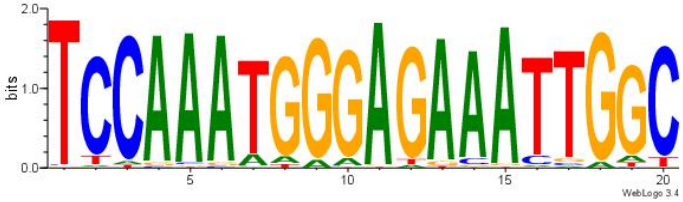

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

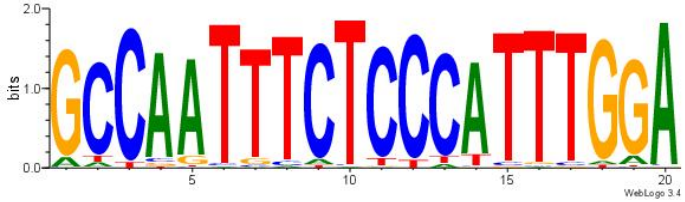

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.136761

Alignment:
AGGCCCCAGTGTSTGTTGTT
-GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

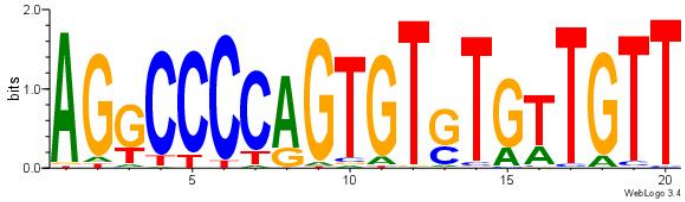

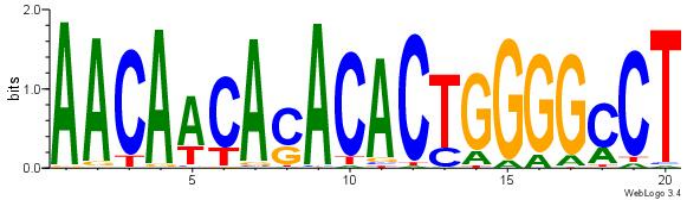

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137657

Alignment:

```
AGTGAGAACATRYRRTRTTT
-AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

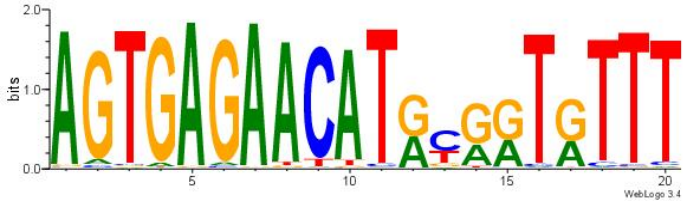

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

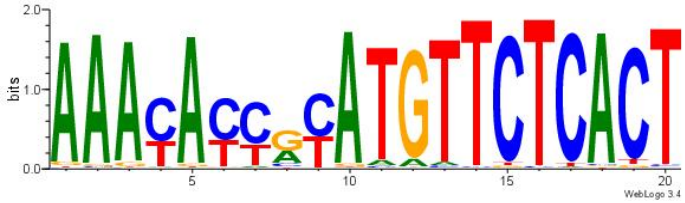

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.138548

Alignment:

```
AGTAGGTGCTCARTAAATRB
AGGAACAGCTCCRGTCTAC-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

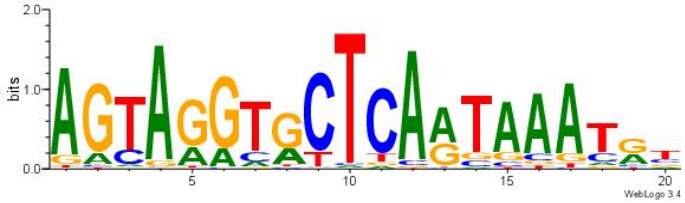

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

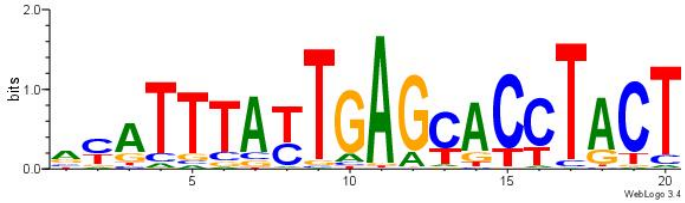

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.140852

Alignment:
GKCTGTACCCCCATTGTAT
AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

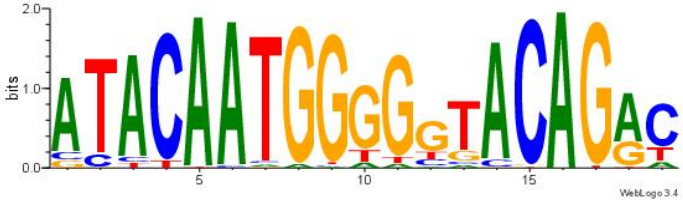

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

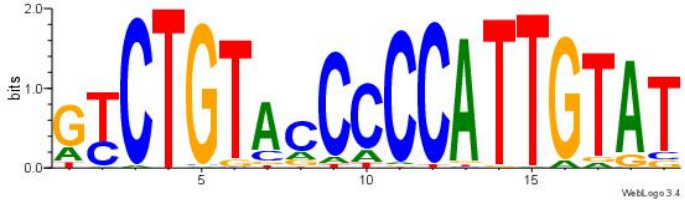

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.14102

Alignment:
GCAAAKGACATGATYTCATT
GTAGACKGGAGCTGTTCCT-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

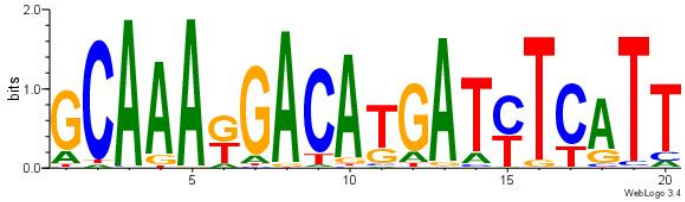

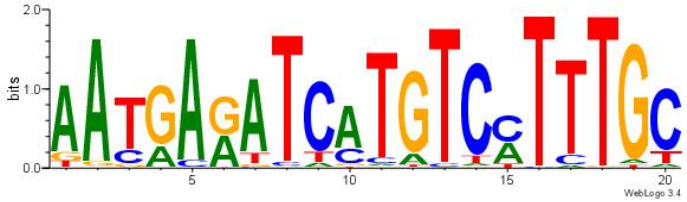

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.14132

Alignment:

```
CAGCTACTCKTATACCCTTG
-AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

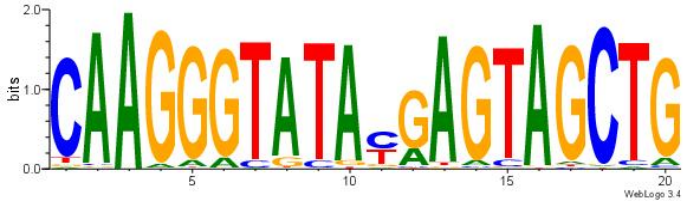

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

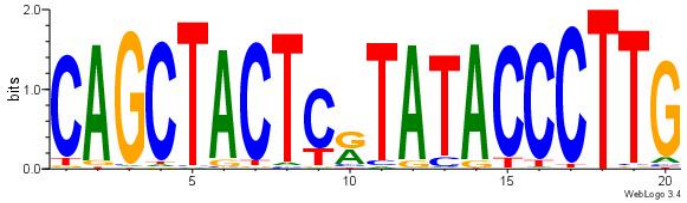

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142101

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
AGGAACAGCTCCRGTCTAC-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

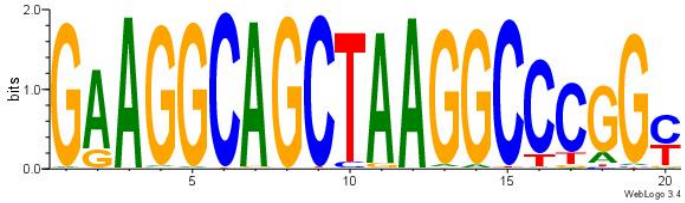

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

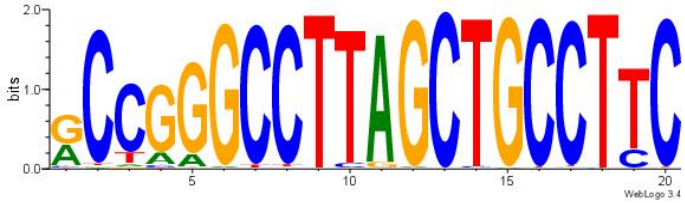

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.142729

Alignment:
AAAATCACAAGCATTCCTAT
AGGAACAGCTCCRGTCTAC-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

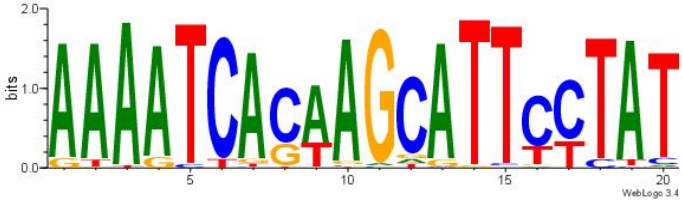

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

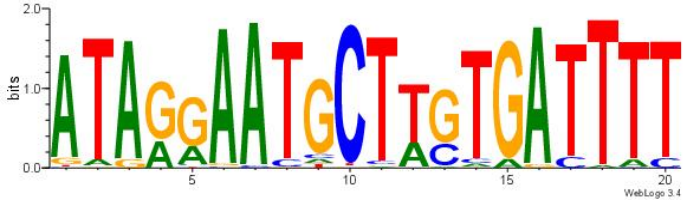

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.144978

Alignment:
GTGCCAGGCACTGTKCTARG
AGGAACAGCTCCRGTCTAC-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

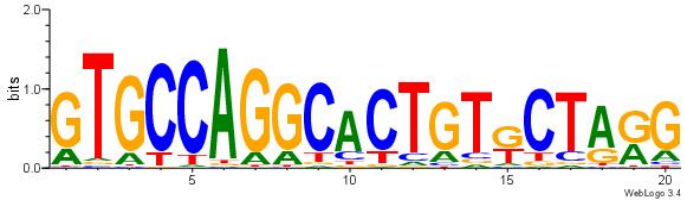

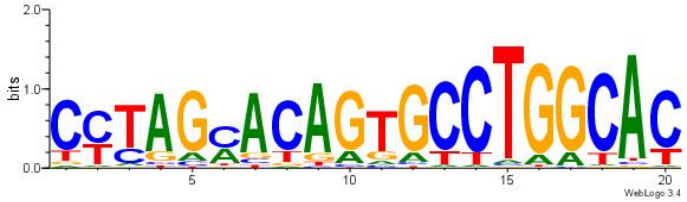

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.145305

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AGGAACAGCTCCRGTCTAC-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

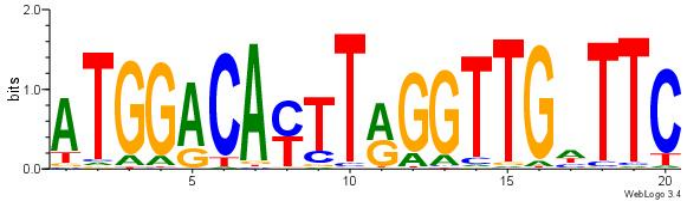

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

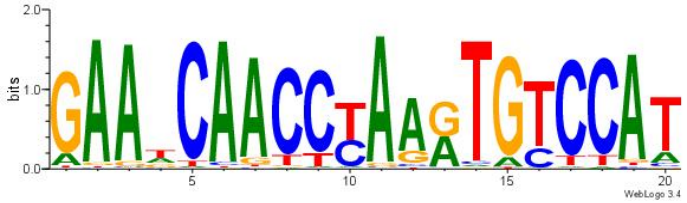

Dataset #:	1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145308

Alignment:

```
GTTTAACCATTGAGGGCCAG
-AGGAACAGCTCCRGTCTAC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

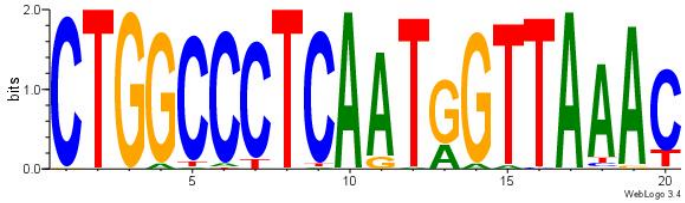

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

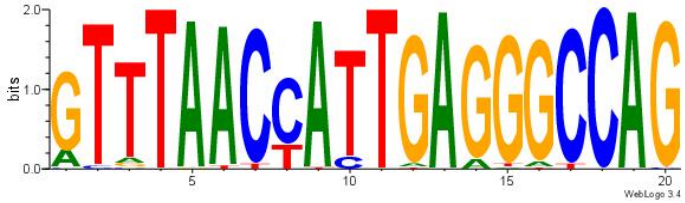

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.147004

Alignment:
TTGGTAGGATCCGTGATGCC
AGGAACAGCTCCRGTCTAC-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

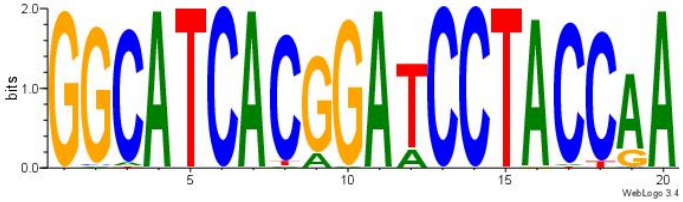

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

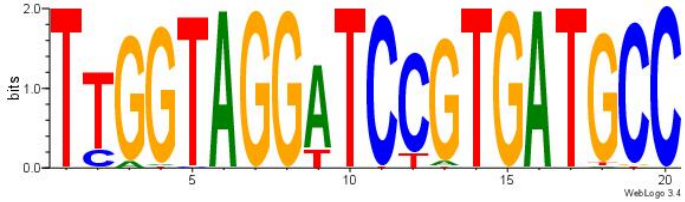

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.147282

Alignment:
GCCACCAMGCCMKGCTAAT
AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

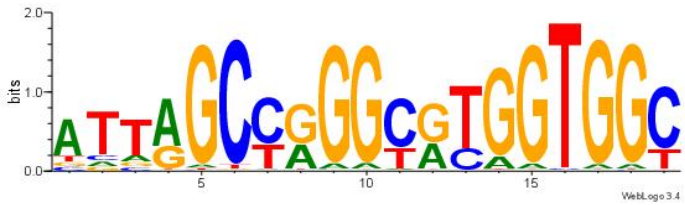

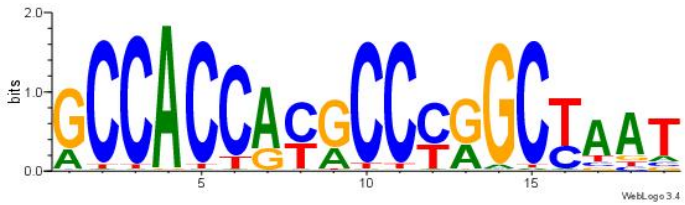

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.147577

Alignment:

```
MGGGATATAATCTCCTGGTG
GTAGACKGGAGCTGTTCCT-
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

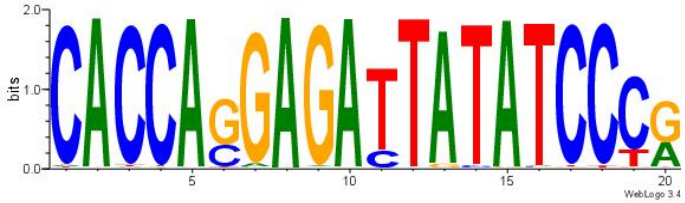

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

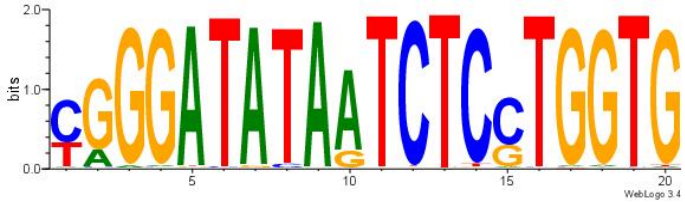

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.147701

Alignment:

```
ATGGCTGAATAKTATTCCAT
GTAGACKGGAGCTGTTCCT-
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

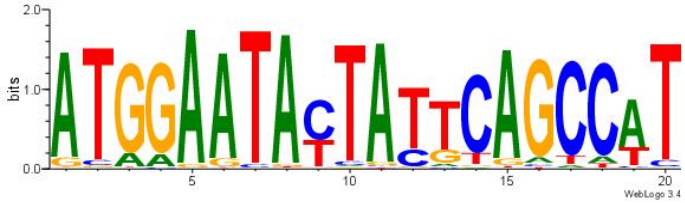

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

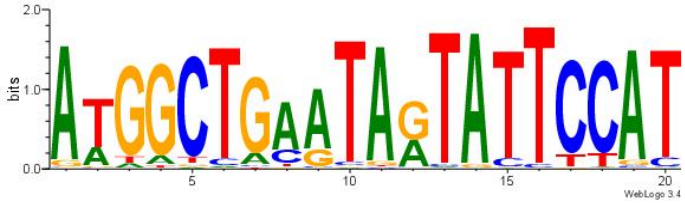

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.148389

Alignment:
TGGCTTCACCCAGTGGATCC
AGGAACAGCTCCRGTCTAC-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

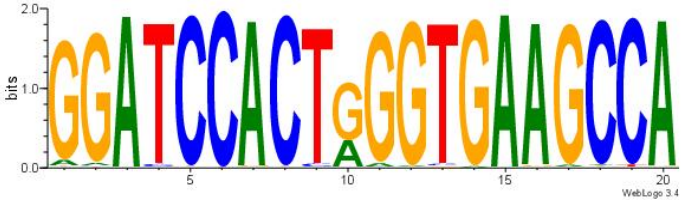

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

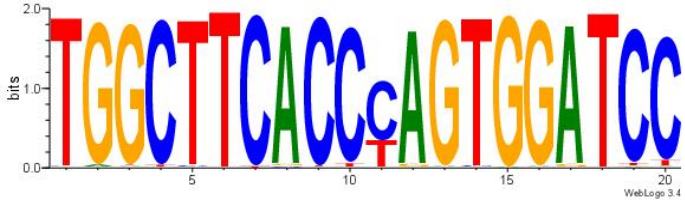

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.148865

Alignment:
TGTGTGTGTGTKTGTGTGT
GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

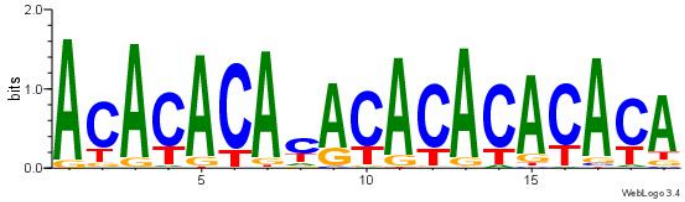

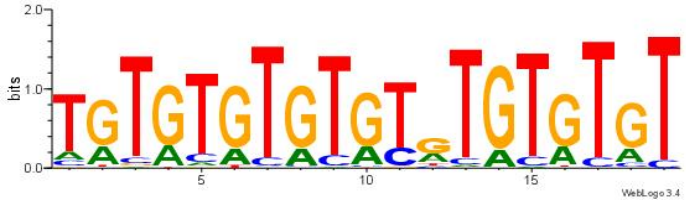

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.149255

Alignment:

GGGTGCAGGMGGGCTGAGT

GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

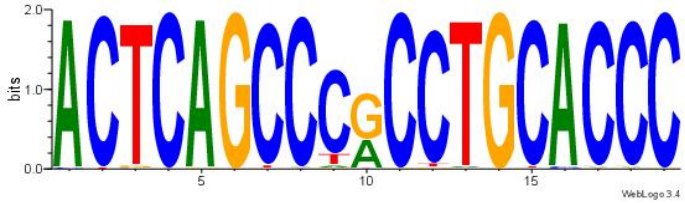

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

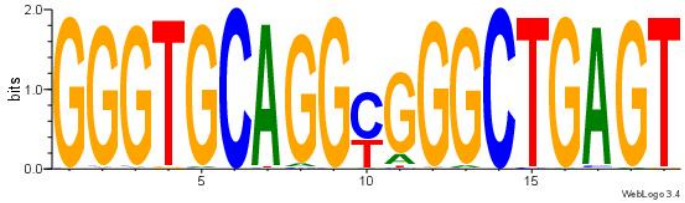

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.150178

Alignment:

```
AAGCAGGGCGAGGCATTGCC
AGGAACAGCTCCRGTCTAC-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

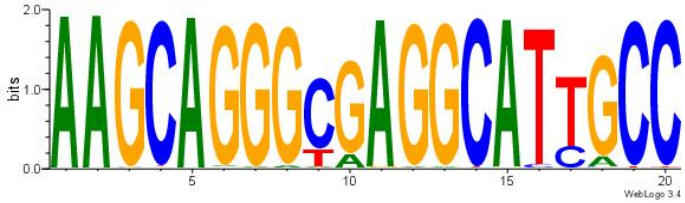

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

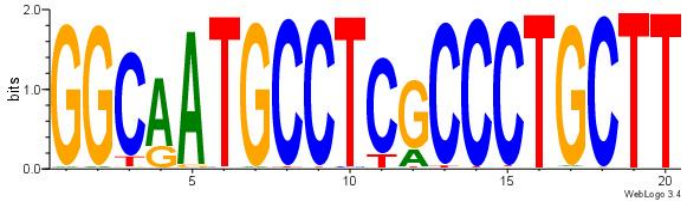

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.150695

Alignment:
CGCGGCGCTTGCGGGCCAGC
AGGAACAGCTCCRGTCTAC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

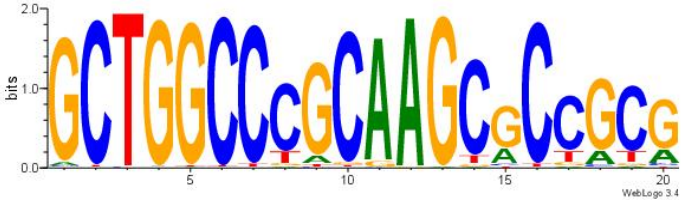

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

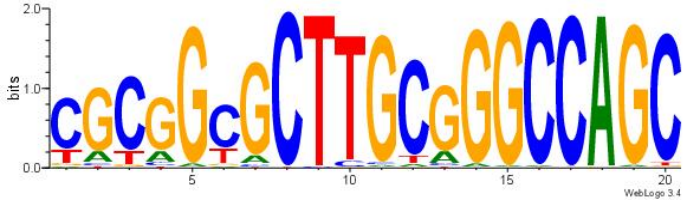

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.150903

Alignment:
GAAAAGCGCAGTATTMGGG
GTAGACKGGAGCTGTTCCT

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

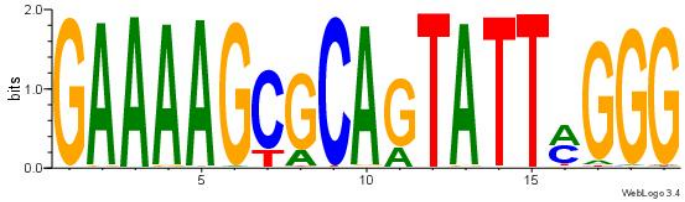

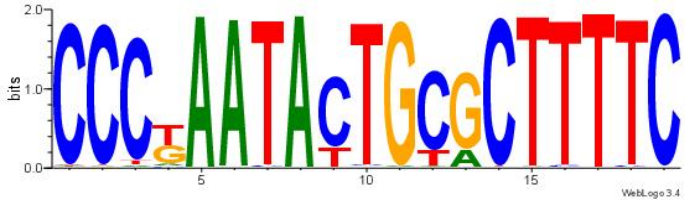

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.15101

Alignment:
CCCATGCAAGTCYRAAATCC
-AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

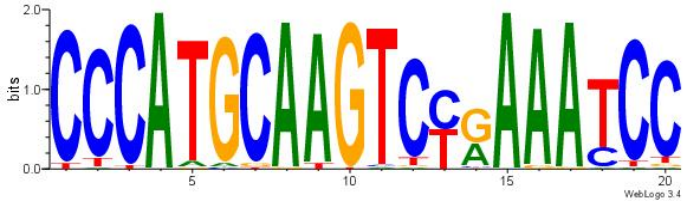

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

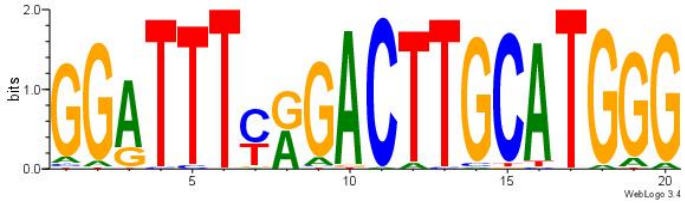

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.151058

Alignment:

```
GCACATGTAYCCYAGAACTT
GTAGACKGGAGCTGTTCCT-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

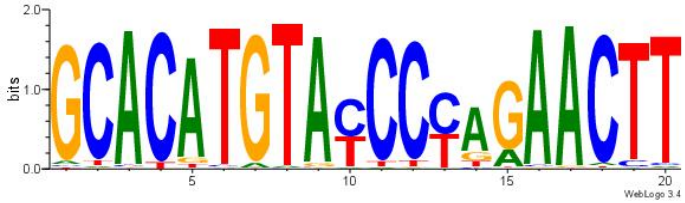

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

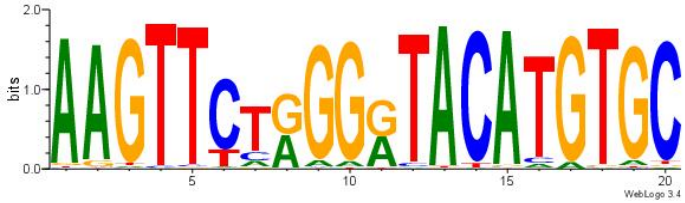

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.151179

Alignment:
CTGACTGGGAGACACCTCCC
GTAGACKGGAGCTGTTCCT-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

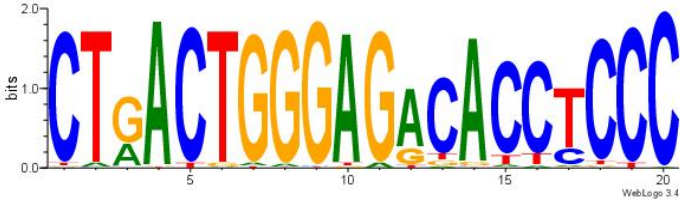

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

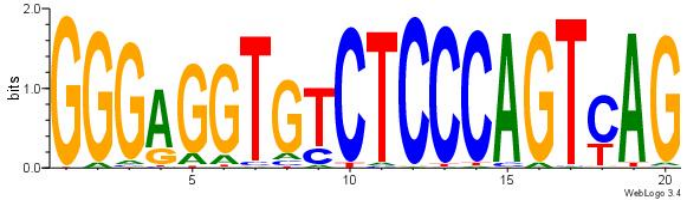

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.151945

Alignment:
GGGTCAGGGAGTTCCCTTTC
GTAGACKGGAGCTGTTCCT-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

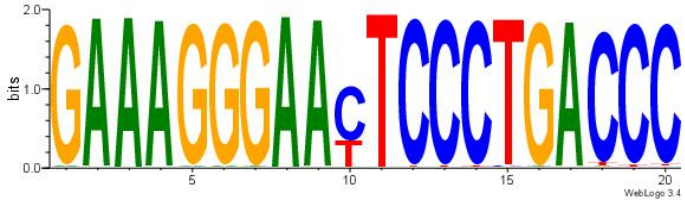

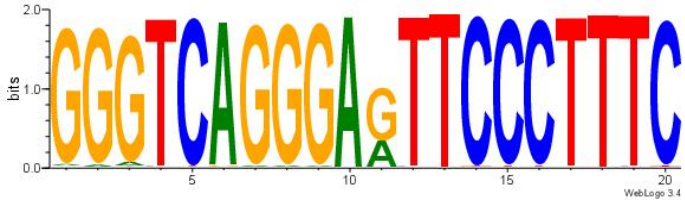

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.152185

Alignment:

```
GTGGCCCTCTTCTCACAGCT
AGGAACAGCTCCRGTCTAC-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

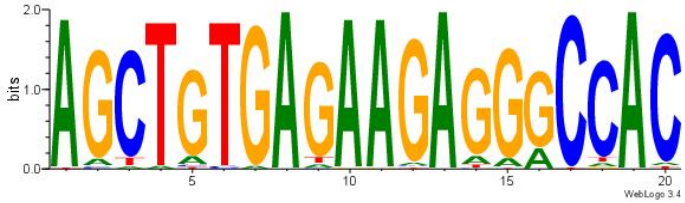

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

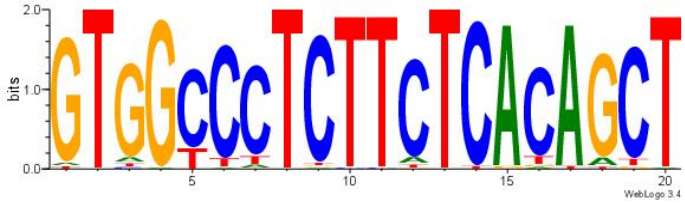

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.153343

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-GTAGACKGGAGCTGTTCCT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

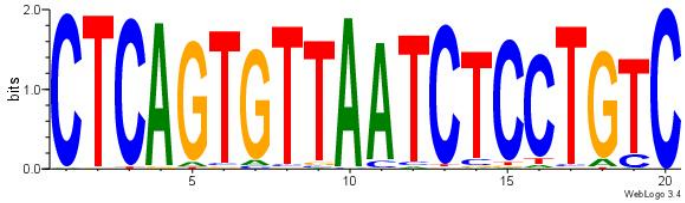

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

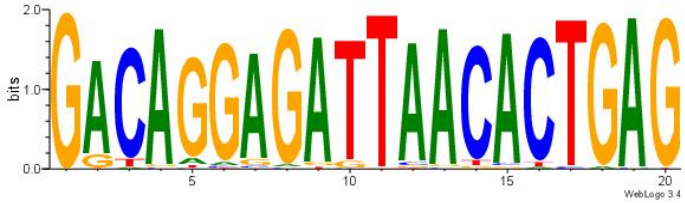

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.153909

Alignment:
GAGAGAGAGAGAGAGAGAGA
-AGGAACAGCTCCRGTCTAC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

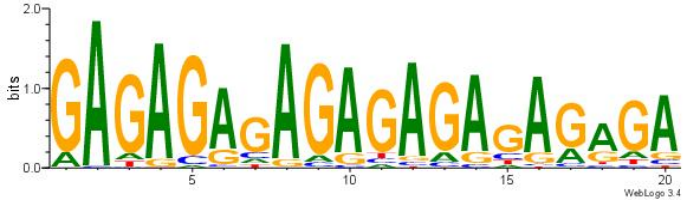

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

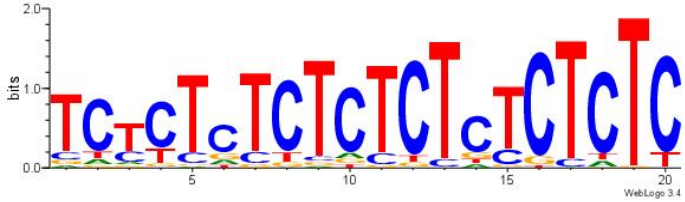

Dataset #: 1 Motif ID: 63 Motif name: Motif 63

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

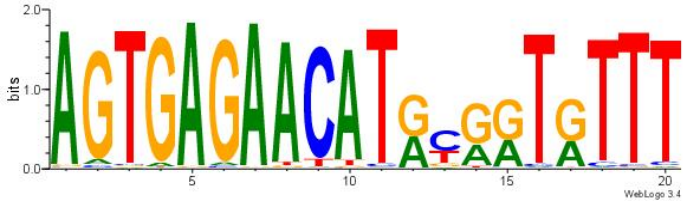

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

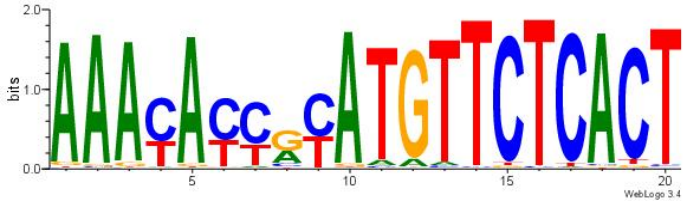

Best Matches for Motif ID 63 (Highest to Lowest)

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.10502

Alignment:

```
AATCAACCCTGGYRATCAAT
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

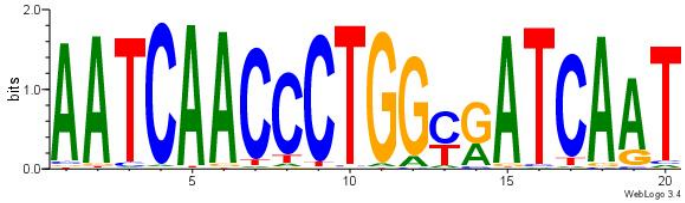

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

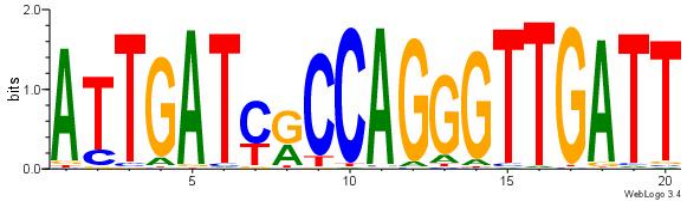

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106569

Alignment:

GCAAAKGACATGATYTCATT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

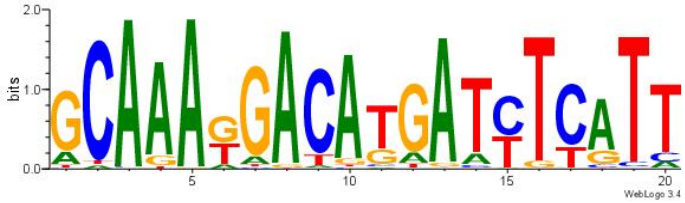

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

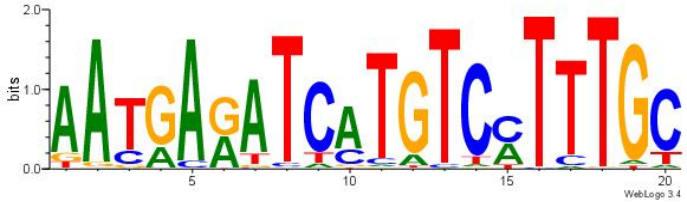

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121267

Alignment:
AAAAGTCCACAGTCCAAAGT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

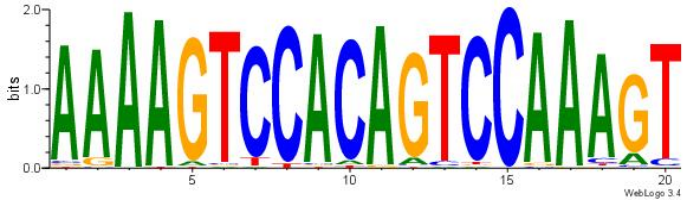

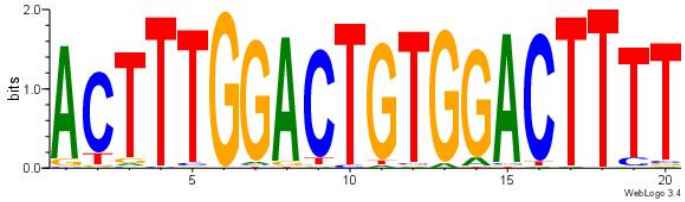

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121353

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

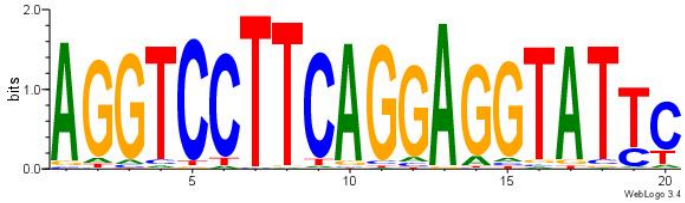

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

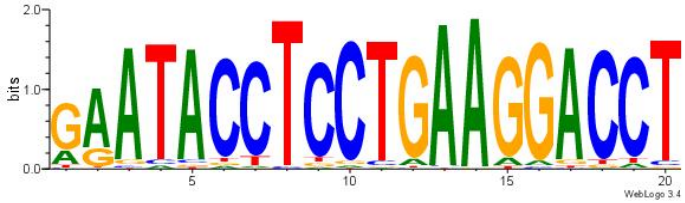

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.123743

Alignment:

```
CACCAGGAGATTATATCCCR
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

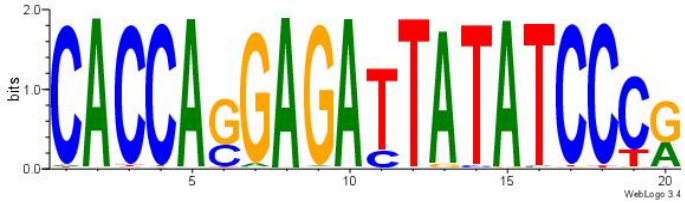

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

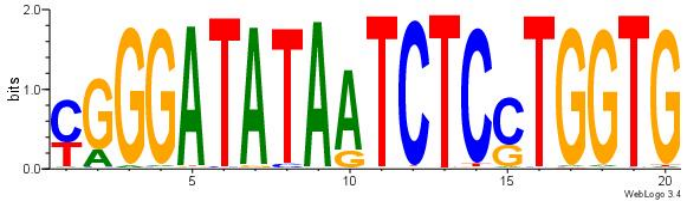

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.123914

Alignment:
AGTGACCCGATTTTCCAGGT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

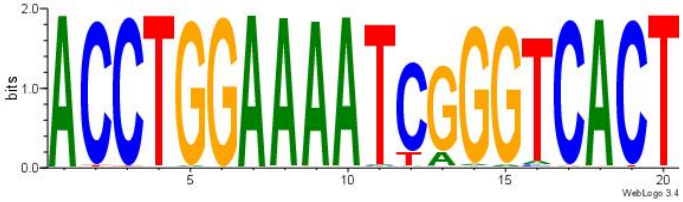

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

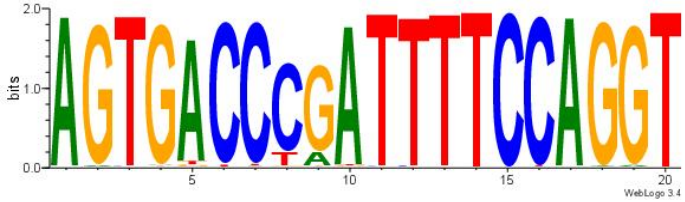

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.126486

Alignment:
AAAATCACAAGCATTCCTAT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

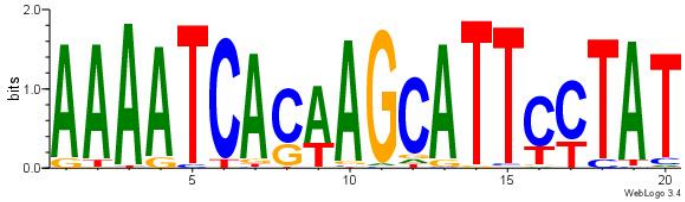

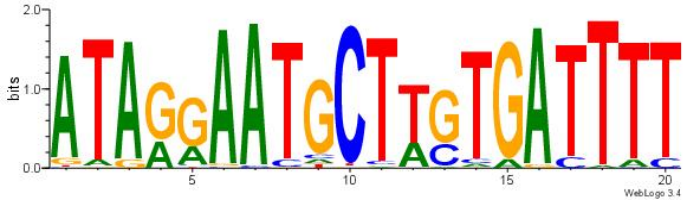

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129776

Alignment:

```
CAAGTTGACACATAAAATTA
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

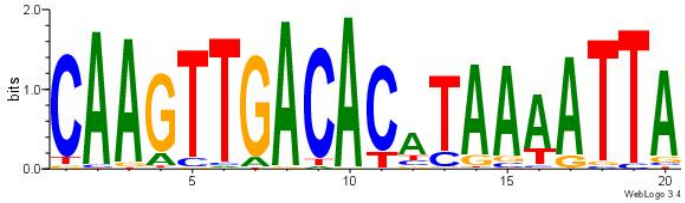

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

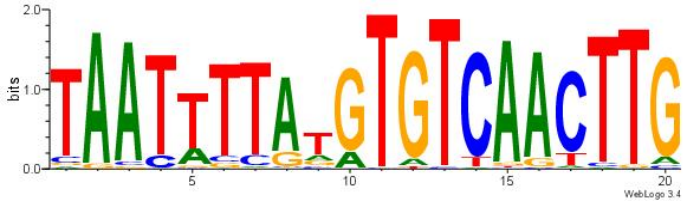

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13279

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

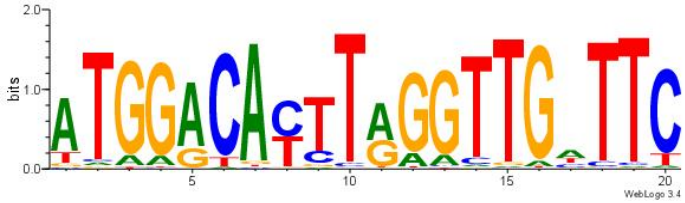

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

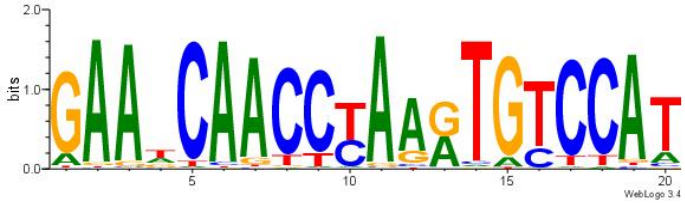

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.13284

Alignment:
AACAACASACACTGGGGCCT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

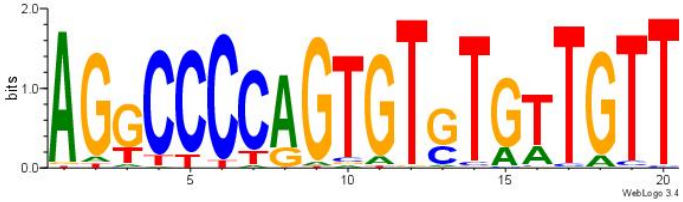

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

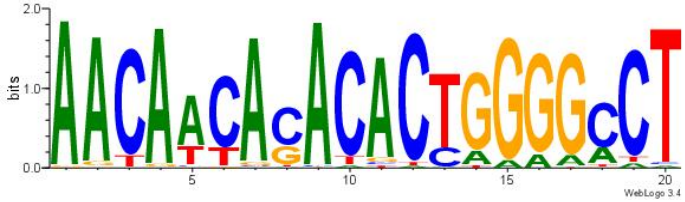

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.134195

Alignment:
AGTAGGTGCTCARTAAATRB
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

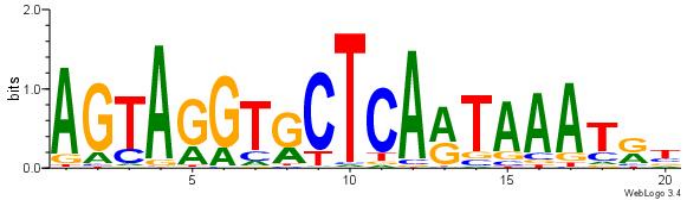

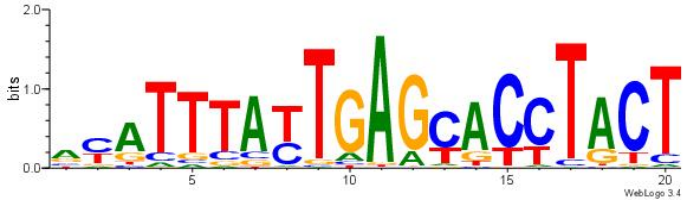

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135284

Alignment:
GCCKGGMKCMGTGGCTCAKG
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

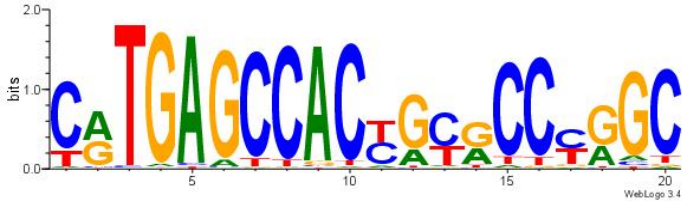

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

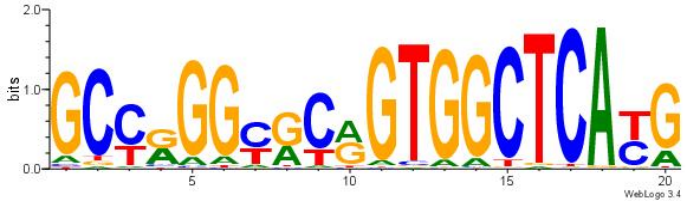

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13569

Alignment:

```
ACACATCACAAAGCAGTTTC
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

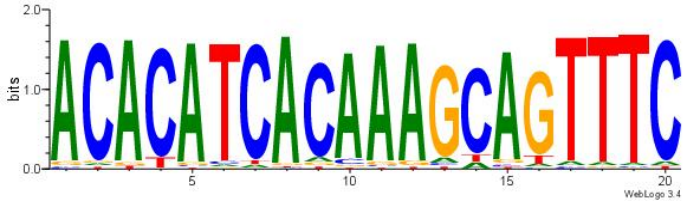

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

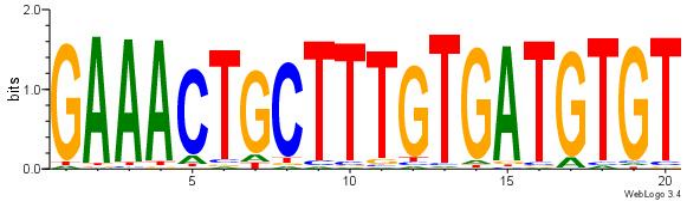

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138234

Alignment:
AAATTACCCAGTCTCAGGTA
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

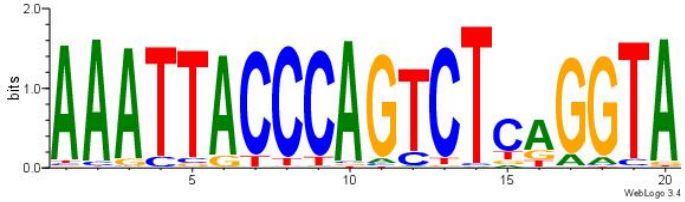

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

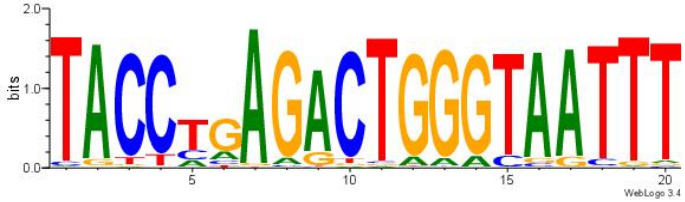

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138345

Alignment:
GGCAATGCCTCGCCCTGCTT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

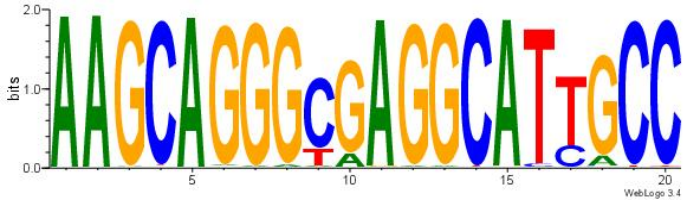

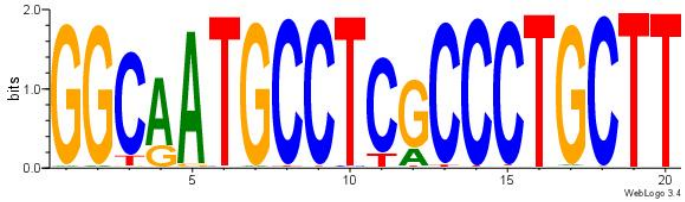

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139003

Alignment:

```
CAGCTACTCKTATACCCTTG
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

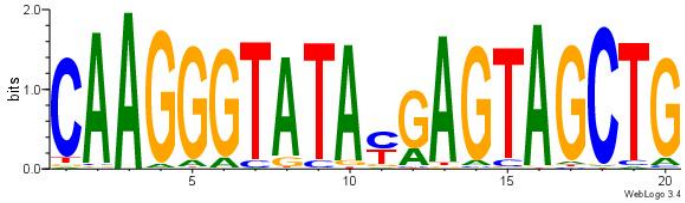

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

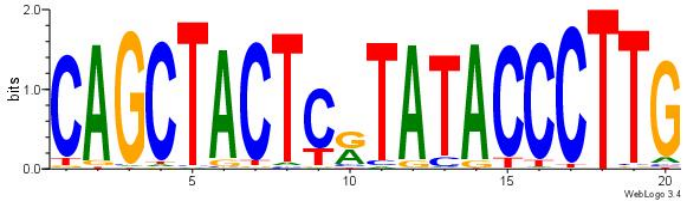

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139299

Alignment:

```
AAATTAGGCCAATTAATAAC
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

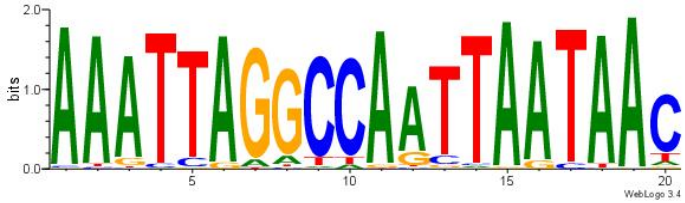

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140401

Alignment:
TAAAAGACTACAWATTGGGT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

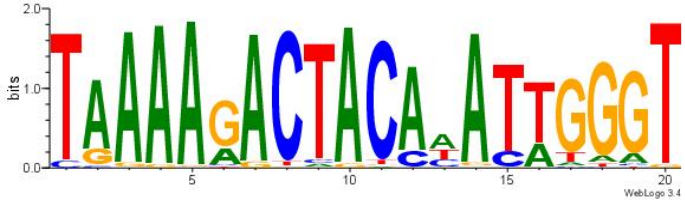

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

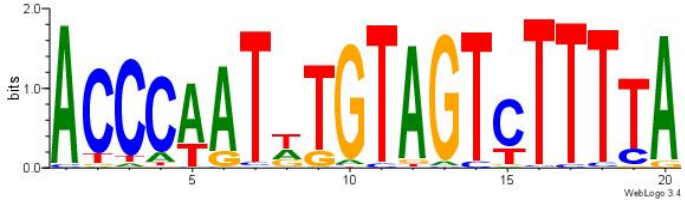

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142622

Alignment:
CTGGGCRACAGAGYRAGACY
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

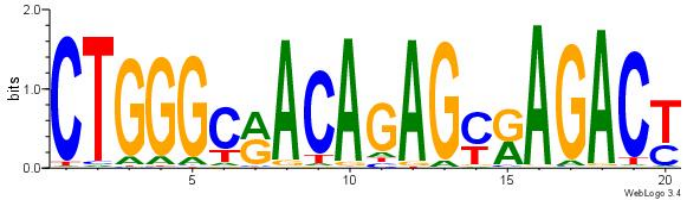

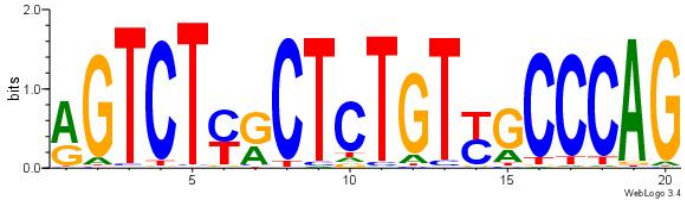

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144984

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

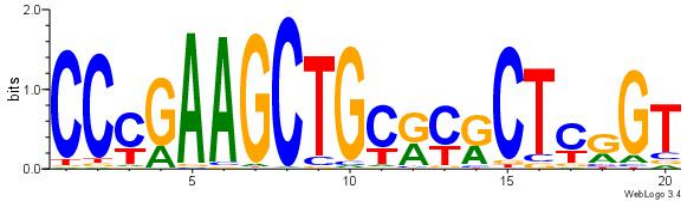

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

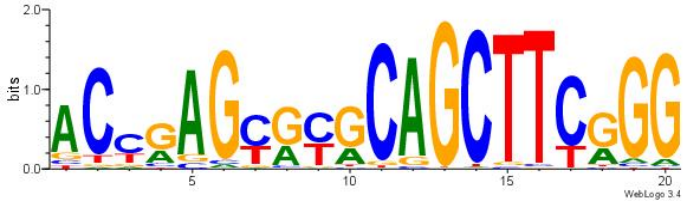

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146324

Alignment:

```
CTAGACATAAAGGTTCTCCA
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

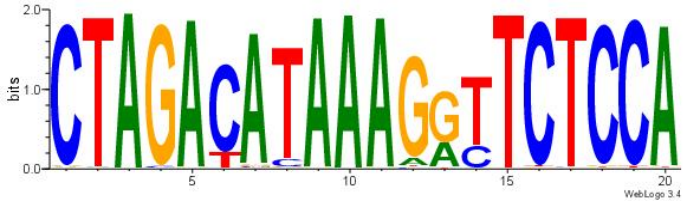

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

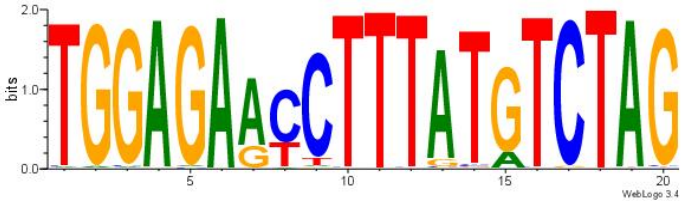

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147931

Alignment:
ATGGCTGAATAKTATTCCAT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

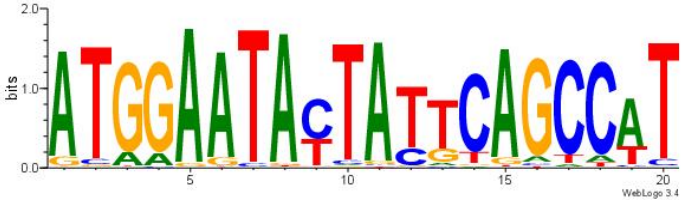

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

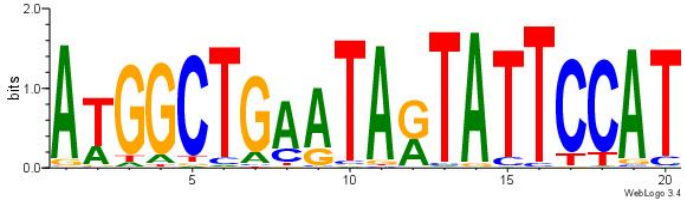

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148524

Alignment:
AAGTCCAAGATCAAGGTGYY
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

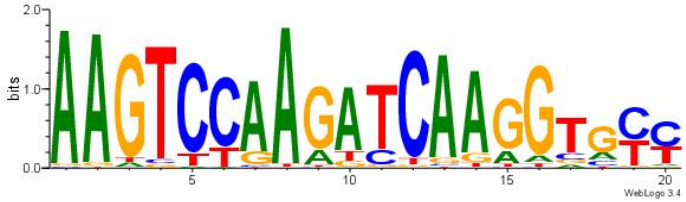

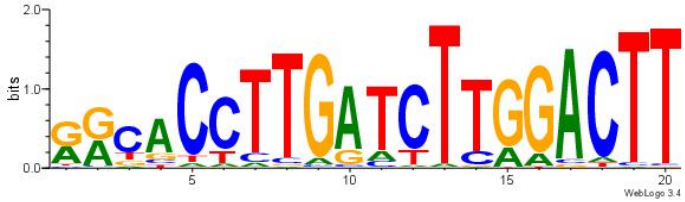

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149214

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

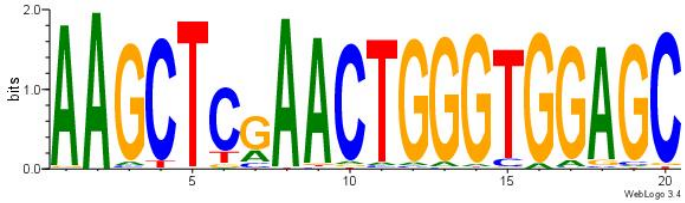

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

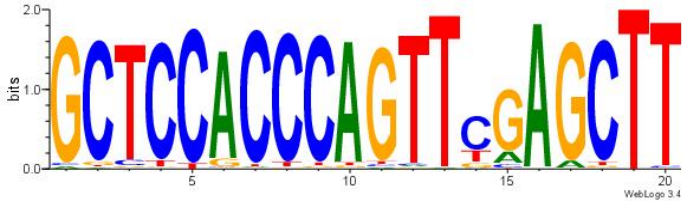

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150038

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

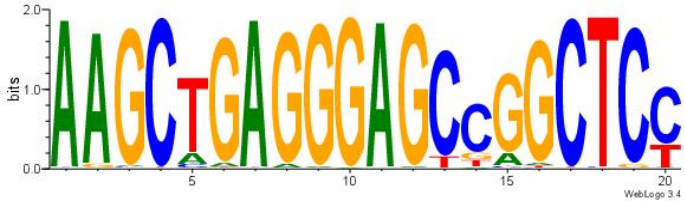

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

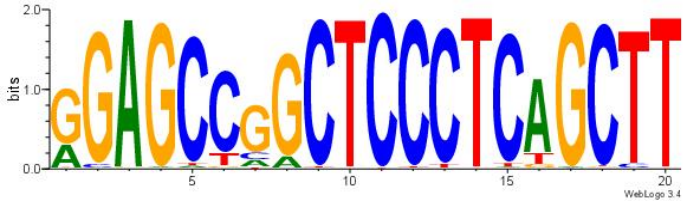

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.151159

Alignment:
CTCCAGKTMCATCCATGTTG
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

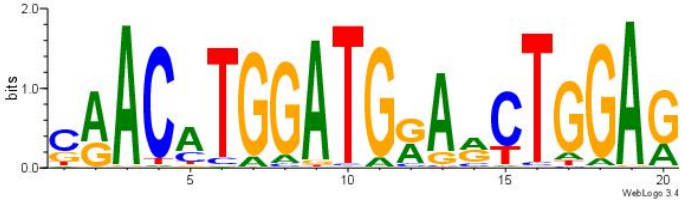

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

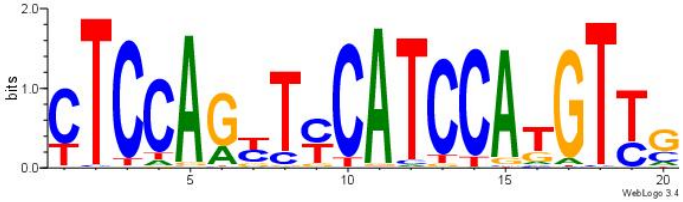

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151585

Alignment:
AAGGAACAAACTCCRGACAC
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

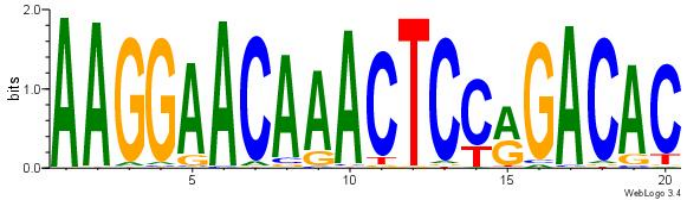

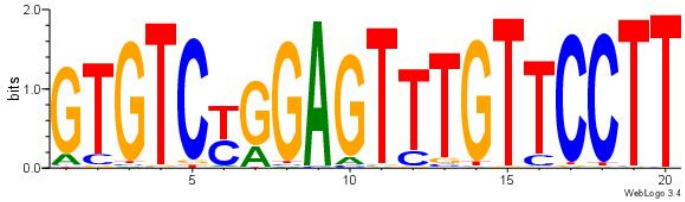

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151734

Alignment:

```
TTCAMTCATGATTTGGCTCT
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

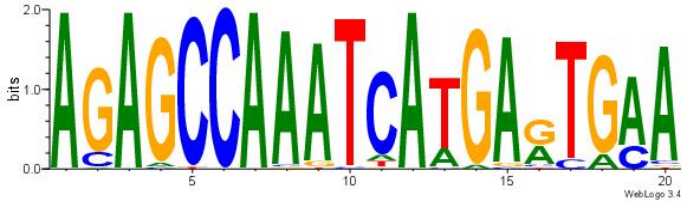

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

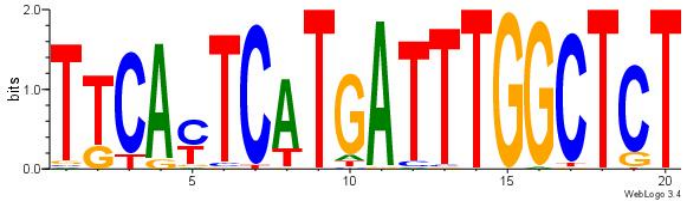

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152156

Alignment:

```
GTKTMTATMTACCACATTTT
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

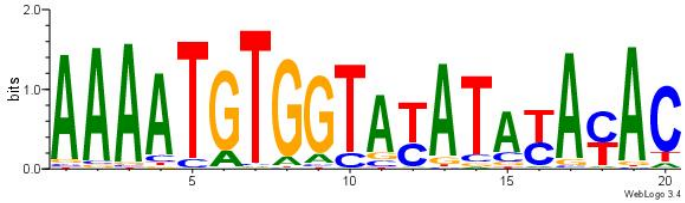

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

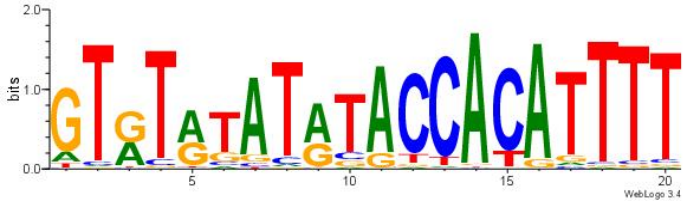

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152877

Alignment:
AGAAATCGAGCRCAGCGCCG
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

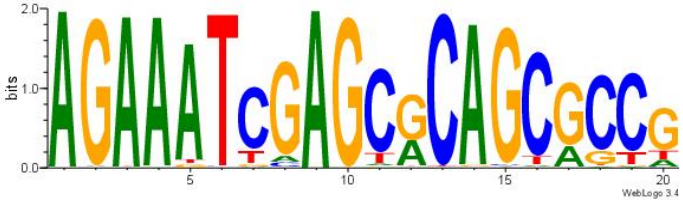

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

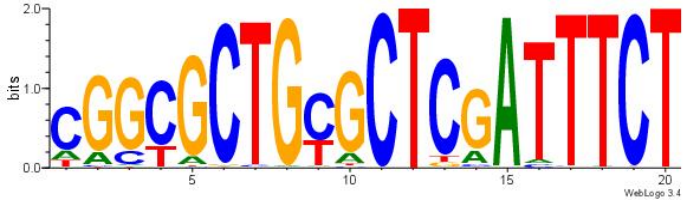

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153342

Alignment:
AWTKKTGGTTKCCAGKGGCT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

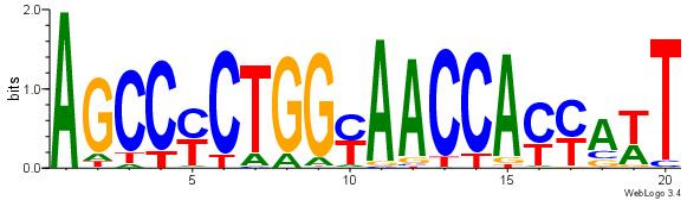

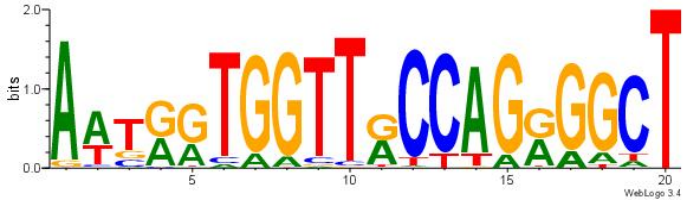

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15497

Alignment:

```
ATGTAACCAAAYACCACCTG
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

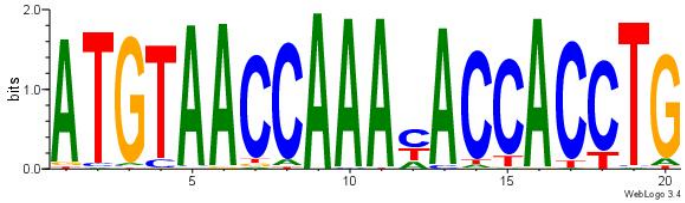

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

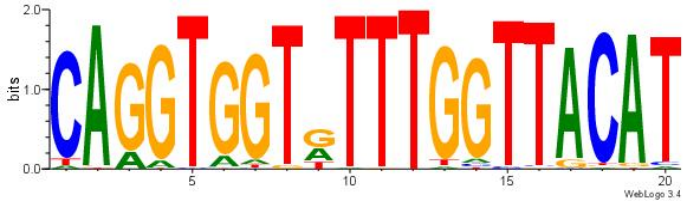

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156038

Alignment:

```
GTGGCCCTCTTCTCACAGCT
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

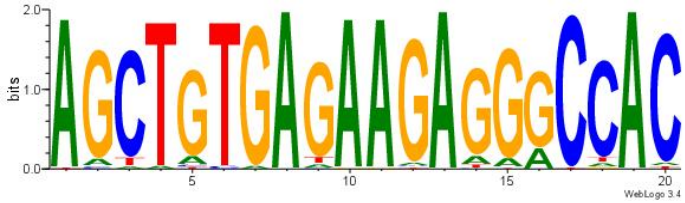

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

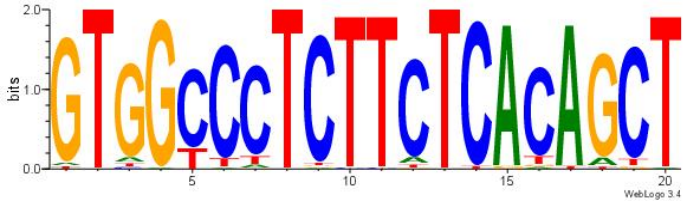

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156617

Alignment:
CCCATGCAAGTCYRAAATCC
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

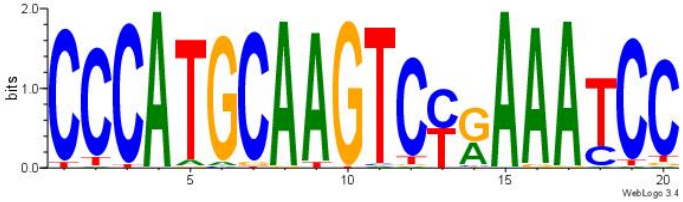

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

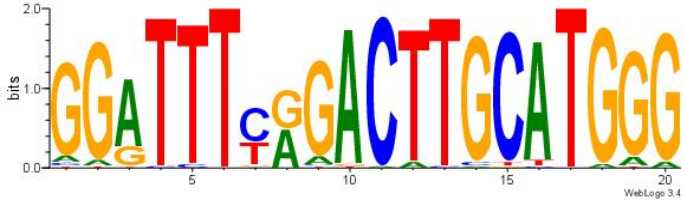

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157331

Alignment:
CTTGCCCAAGGTCACACAGC
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

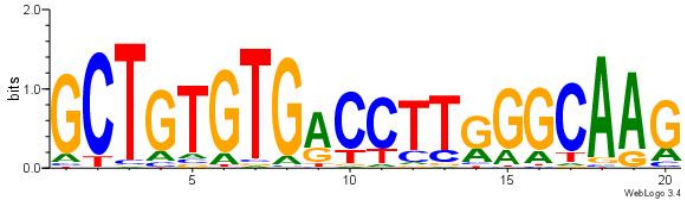

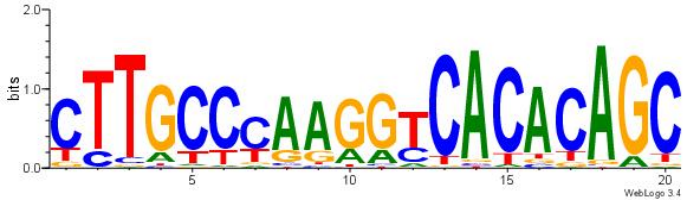

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157605

Alignment:
GCTGGAGTGCAGTGGCRYGA
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

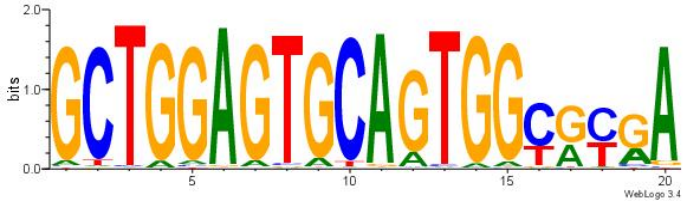

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

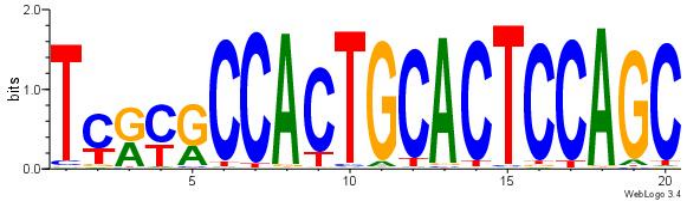

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157637

Alignment:

```
CCTGCCATTGCYSAGGCTTG
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

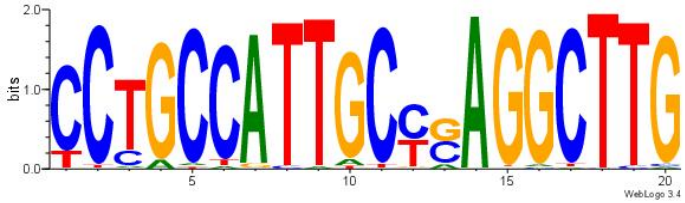

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

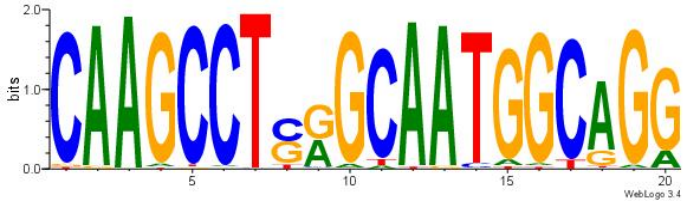

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.158753

Alignment:
GAAGGCAGCTAAGGCCCGGY
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

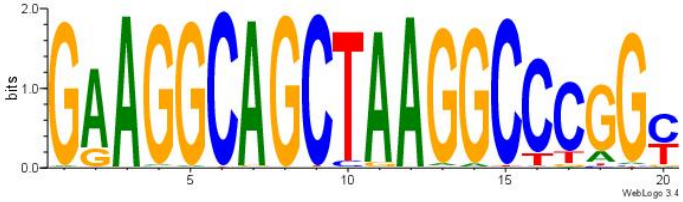

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

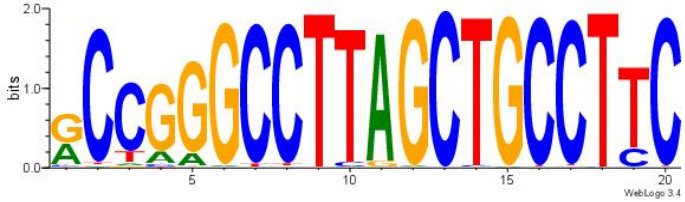

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159565

Alignment:
ACTGTCTTCCACCTCCACAT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

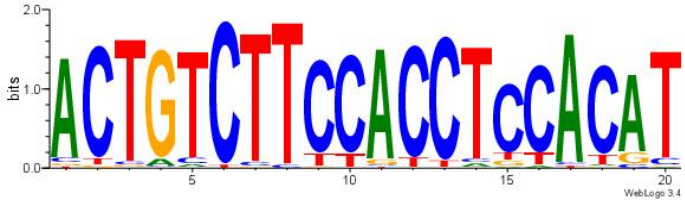

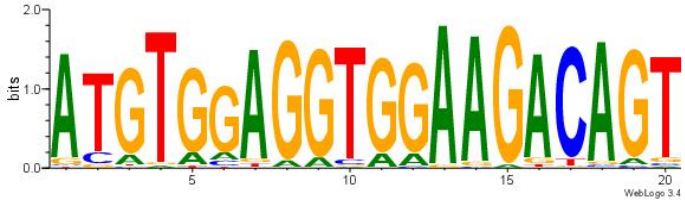

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159817

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

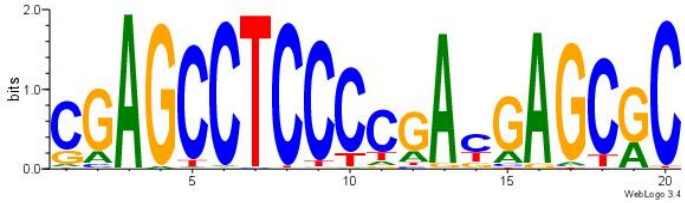

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

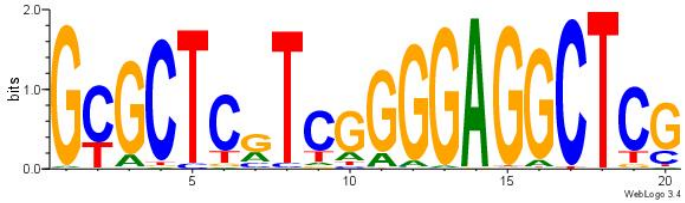

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161458

Alignment:
AAGACCTTCCAGTGGGACAA
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

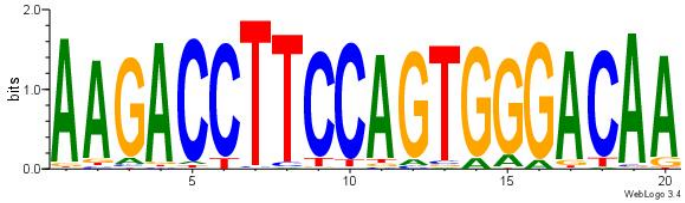

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

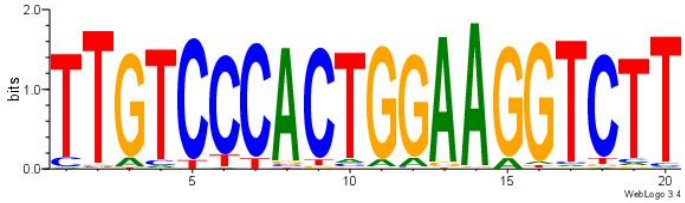

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.162118

Alignment:
ATCRCTTGAGSYCAGGAGKT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

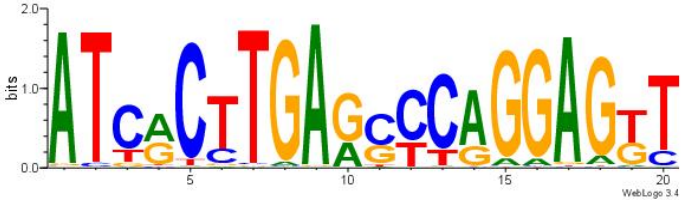

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

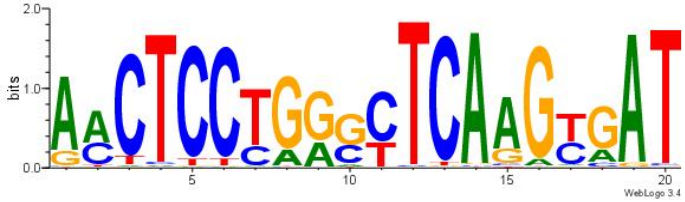

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162984

Alignment:
AGGTTTGTTACATAGGTAWA
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

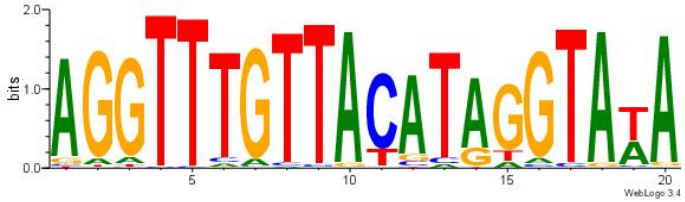

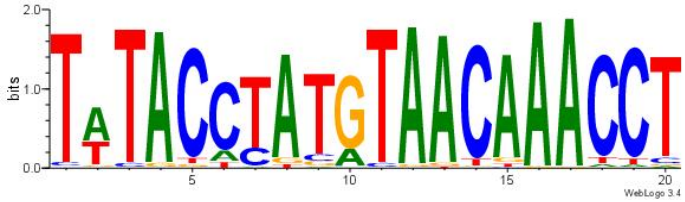

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163038

Alignment:

```
TYTGTCMTTTTGTGACTGGC
AGTGAGAACATRYRRTRTTT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

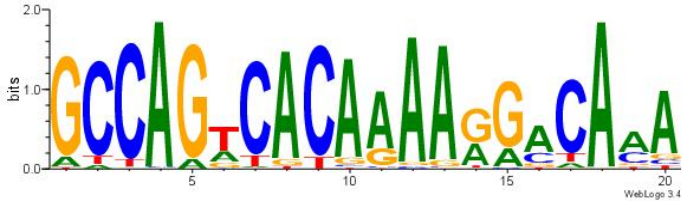

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

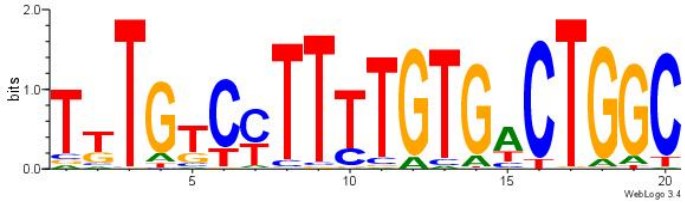

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163451

Alignment:

GTGCCAGGCACTGTKCTARG

AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

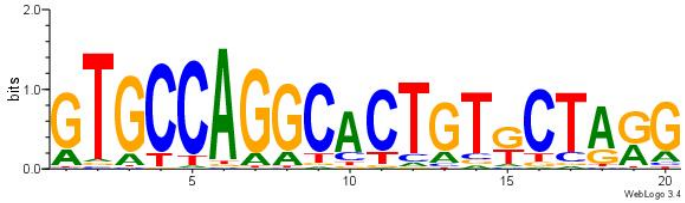

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

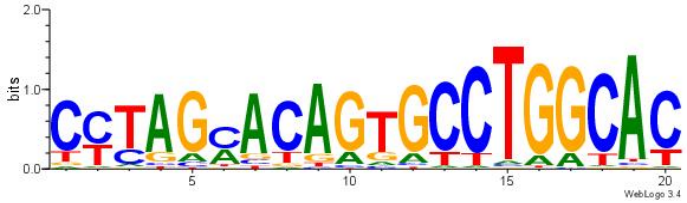

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.164991

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

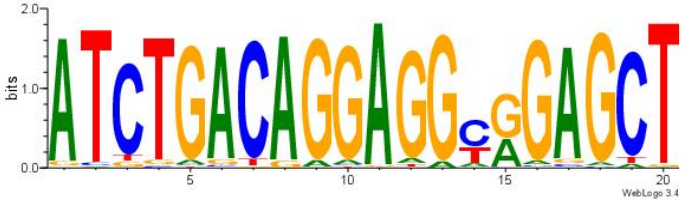

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

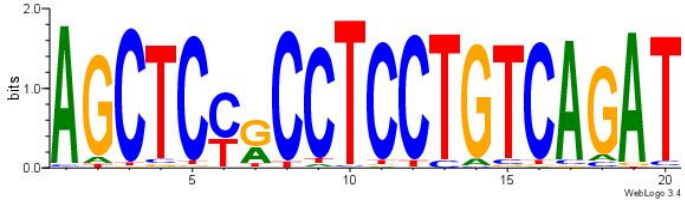

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16626

Alignment:
GCACATGTAYCCYAGAACTT
AGTGAGAACATRYRRTRTTT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

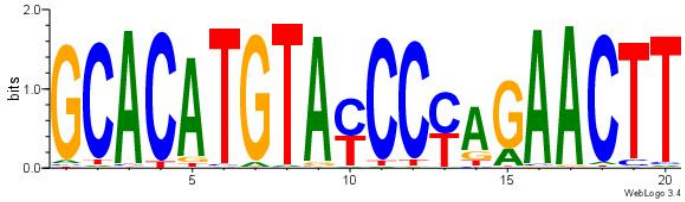

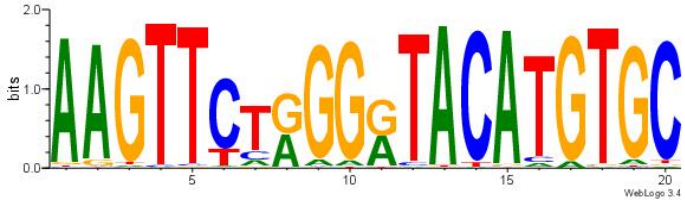

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166666

Alignment:

```
GTAACACTCACCGCGARGGT
AAAMAMMKMATGTTCTCACT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

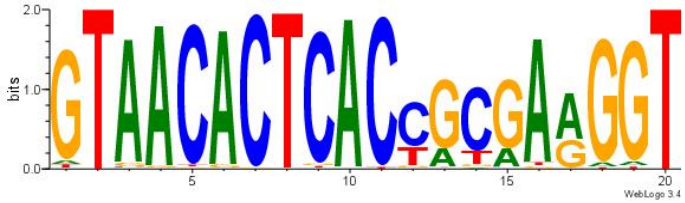

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

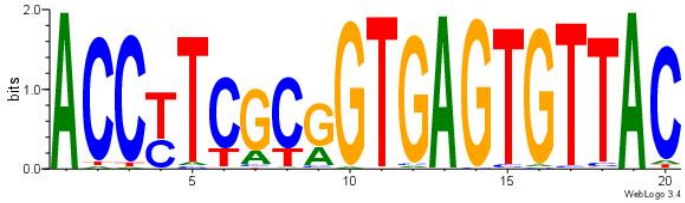

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167013

Alignment:
CGTCGCTCACGCTGGGAGCT
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

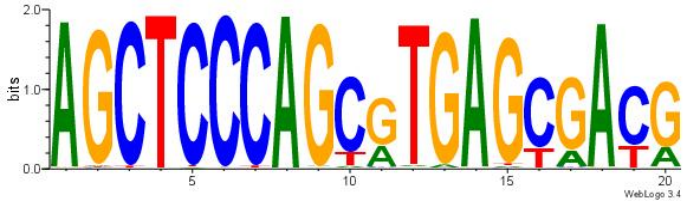

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

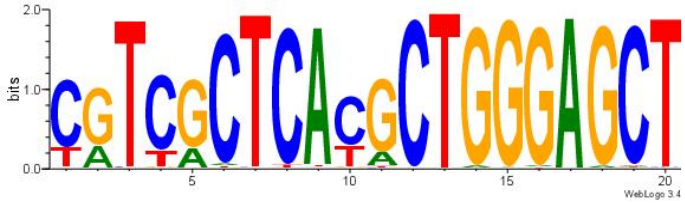

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.167382

Alignment:
GTTTAACCATTGAGGGCCAG
AAAMAMMKMATGTTCTCACT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

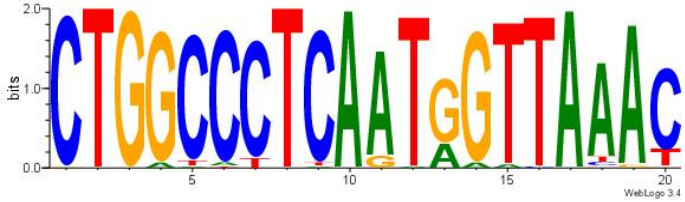

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

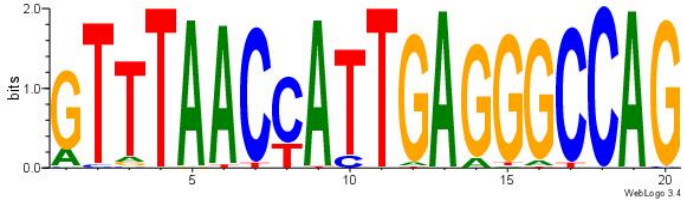

Dataset #: 1 Motif ID: 64 Motif name: Motif 64

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

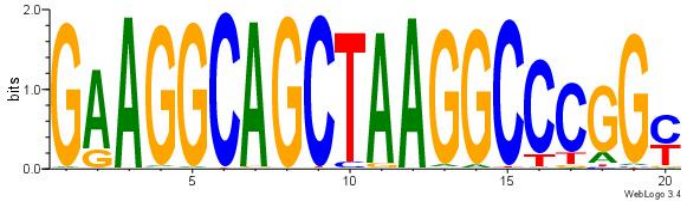

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

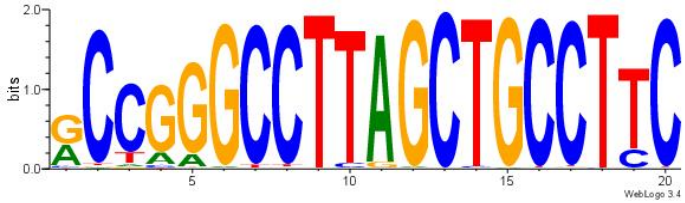

Best Matches for Motif ID 64 (Highest to Lowest)

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.088142

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
KCCGGGCCTTAGCTGCCTTC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

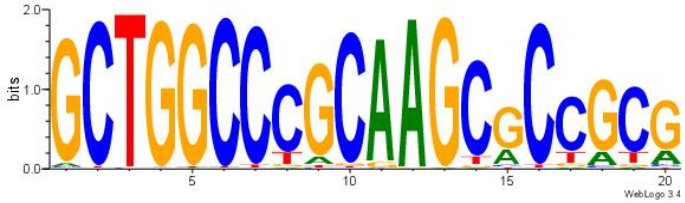

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

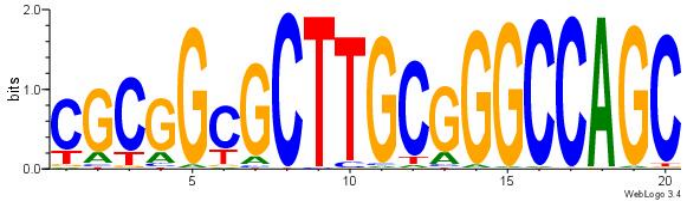

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0936635

Alignment:

CTCCTGCCTCAGCCTCCCRA
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

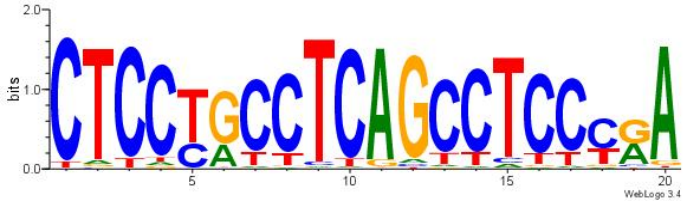

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

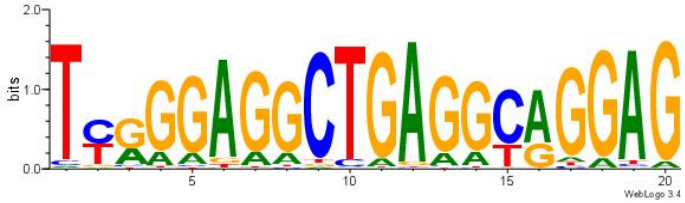

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0969655

Alignment:
GGAGGTGTGGAGGGAGAGGC
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

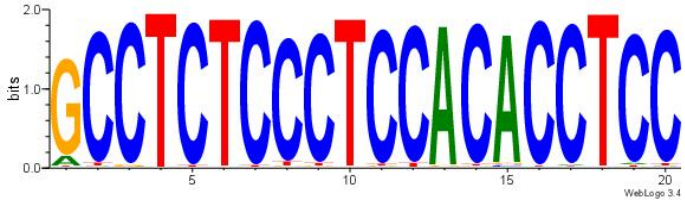

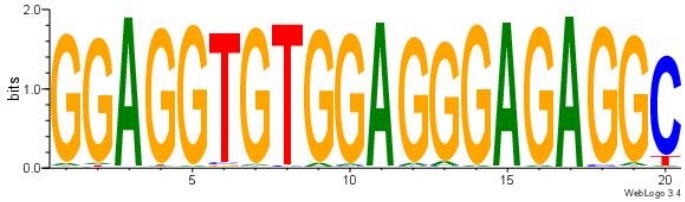

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.100994

Alignment:

```
CRTGAGCCACYGYRCCYGGC
KCCGGGCCTTAGCTGCCTTC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

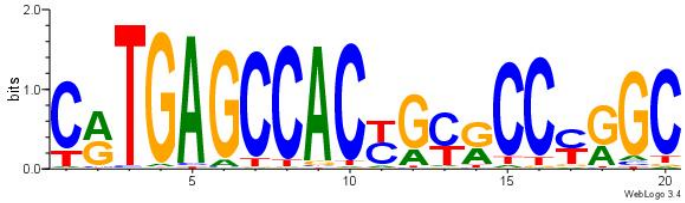

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

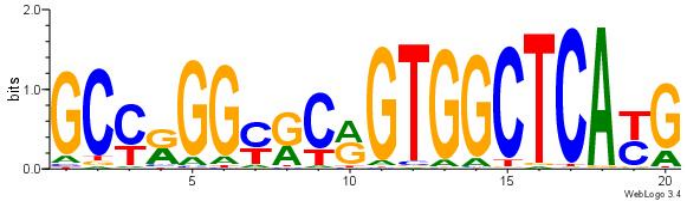

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.102861

Alignment:

```
GAAHCAACCKAAKTGTCCAT
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

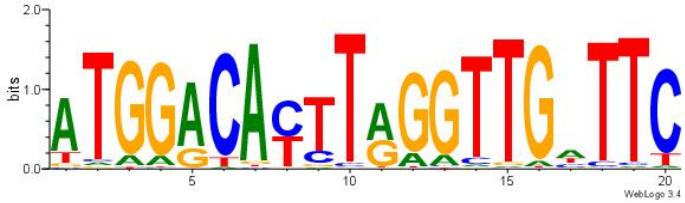

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

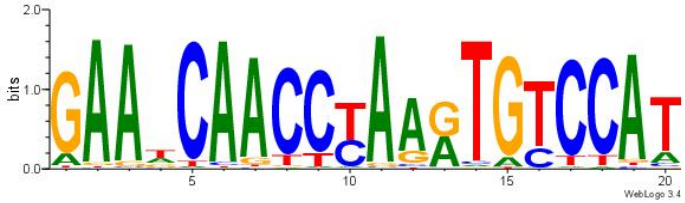

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.103677

Alignment:
CTGGGCTCCTGAGTCTGGTG
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

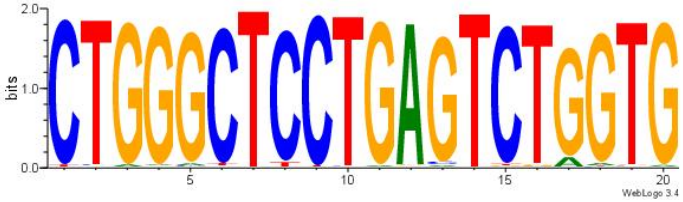

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

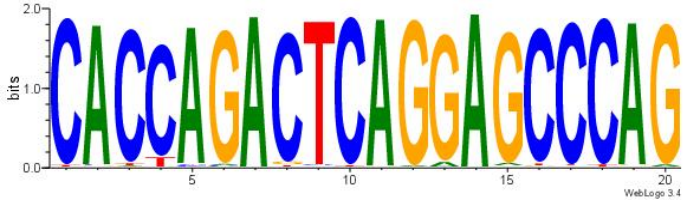

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.103694

Alignment:
TTCAMTCATGATTTGGCTCT
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

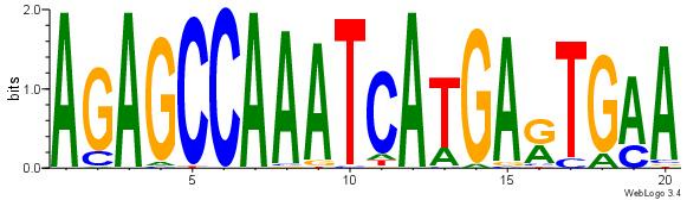

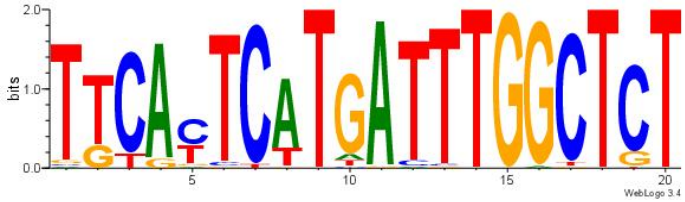

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.107773

Alignment:

```
GACAGGAGATTAACACTGAG
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

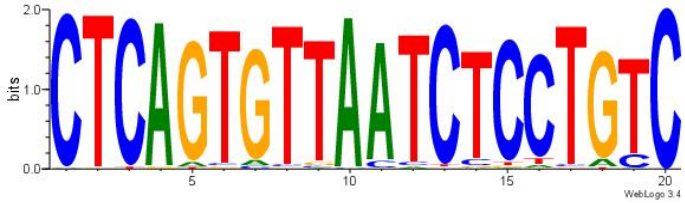

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

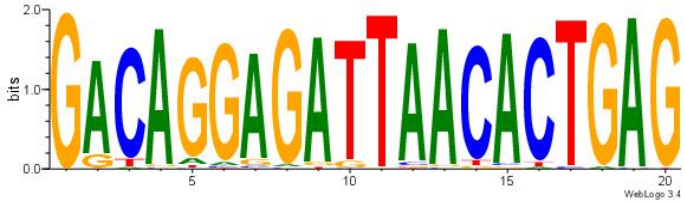

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112318

Alignment:
GGAGCCGGCTCCCTCAGCTT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

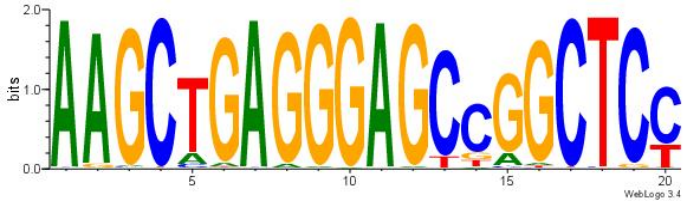

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

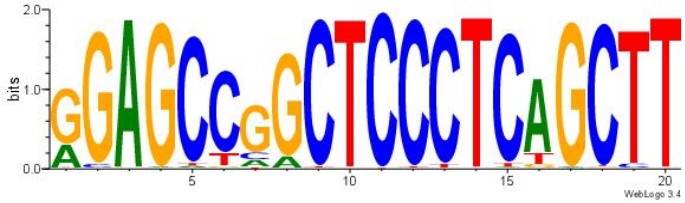

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.116868

Alignment:
TCCCTCCCGGACGGGGYGGC
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

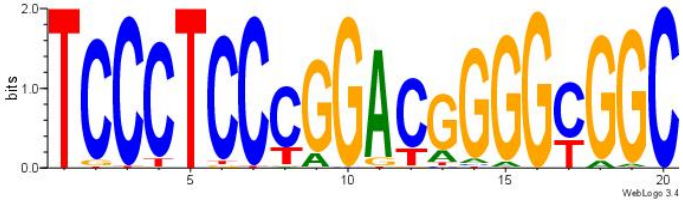

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

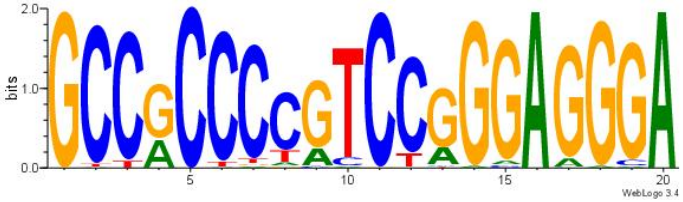

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.119157

Alignment:
TYTGTCMTTTTGTGACTGGC
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

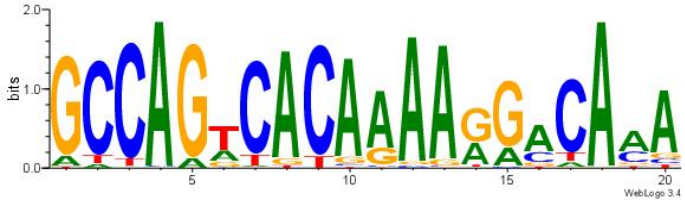

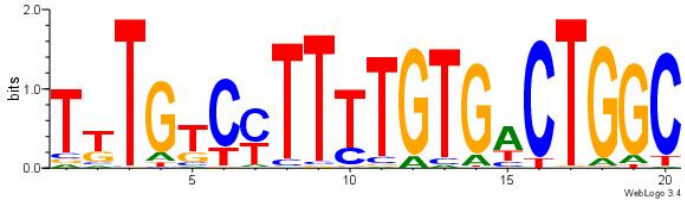

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120114

Alignment:
ACCGAGMKMGCAGCTTCGGG
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

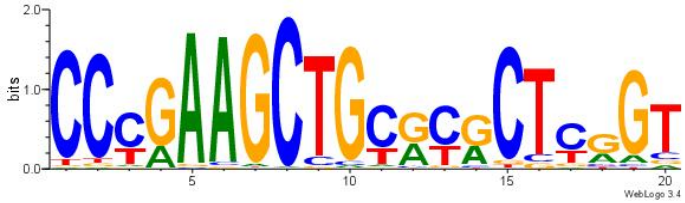

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

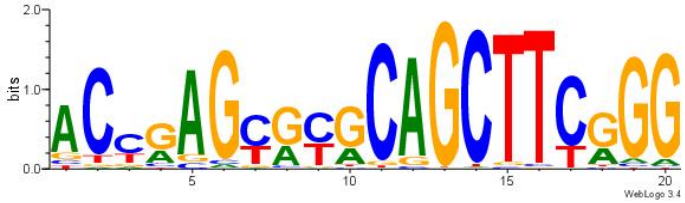

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120308

Alignment:

```
CCTGCCATTGCYSAGGCTTG
KCCGGGCCTTAGCTGCCTTC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

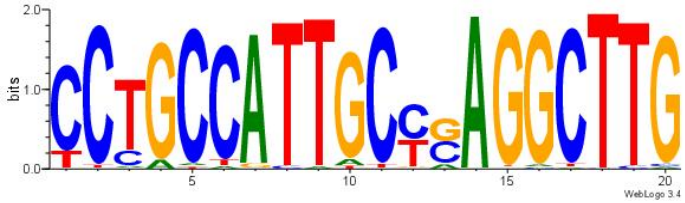

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

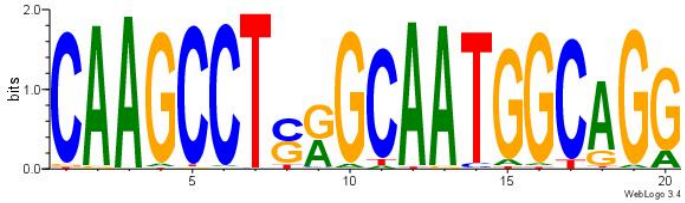

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.122078

Alignment:
TCKMGCCACTGCACTCCAGC
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

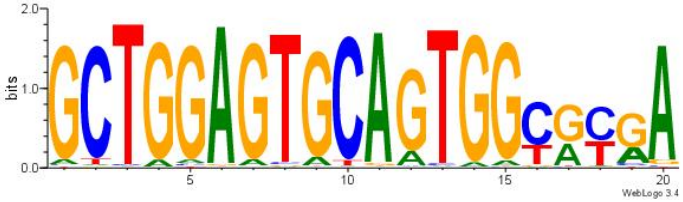

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

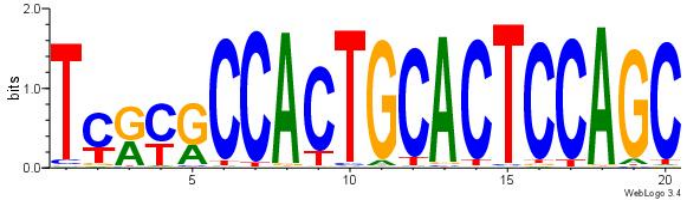

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.122538

Alignment:
GACTGGCAGGCAGCTCCACC
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

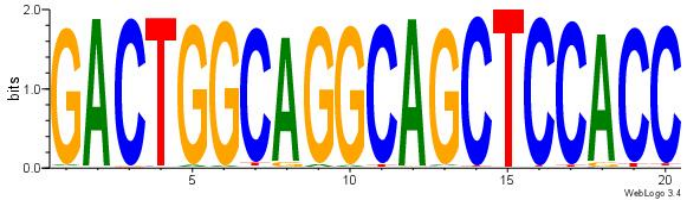

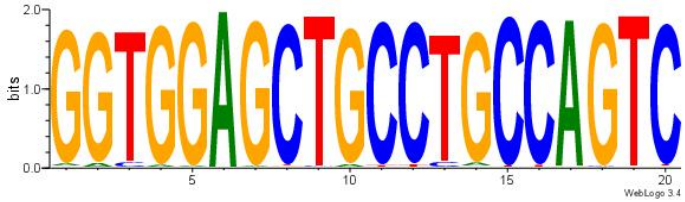

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124329

Alignment:

```
CAACATGGATGRARCTGGAG
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

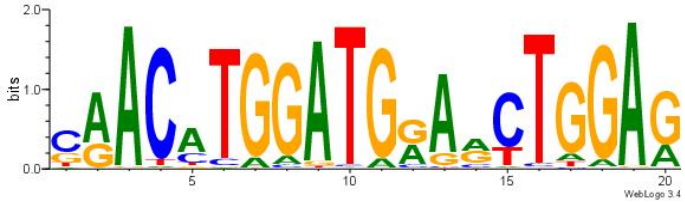

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

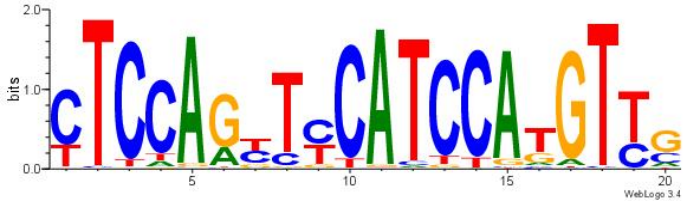

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125983

Alignment:

```
CTGGGCRACAGAGYRAGACY
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

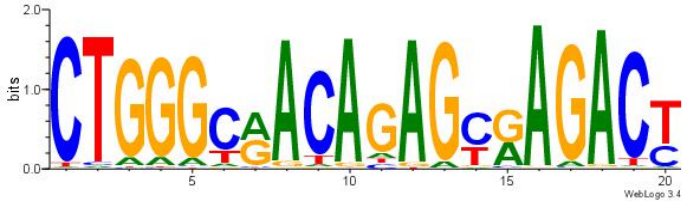

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

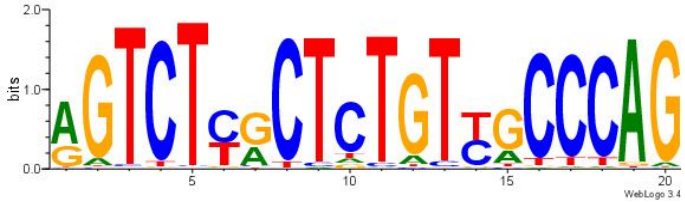

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.126141

Alignment:
TGGAGAACCTTTATGTCTAG
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

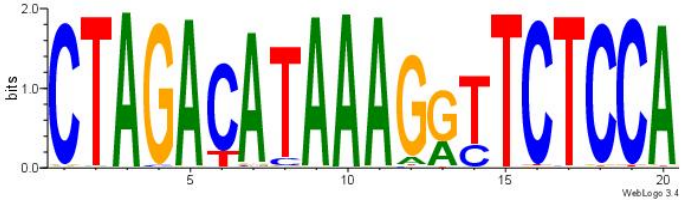

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

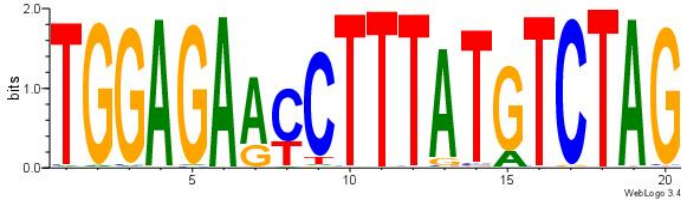

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.126272

Alignment:
GTGGCCCTCTTCTCACAGCT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

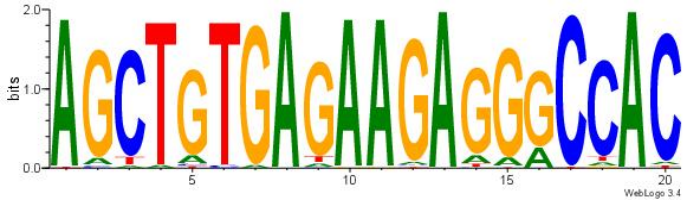

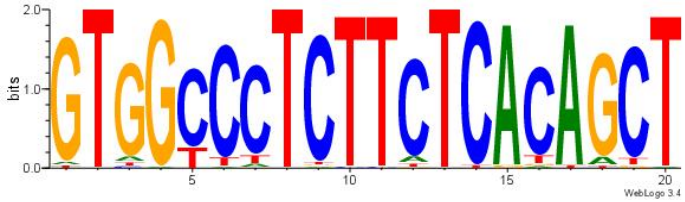

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128034

Alignment:

```
AGTAGGTGCTCARTAAATRB
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

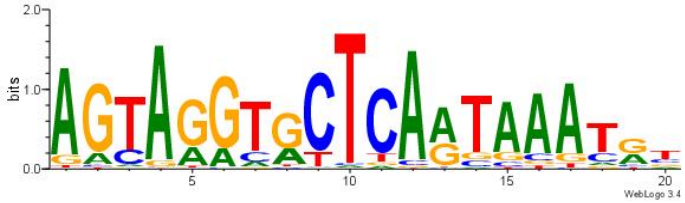

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

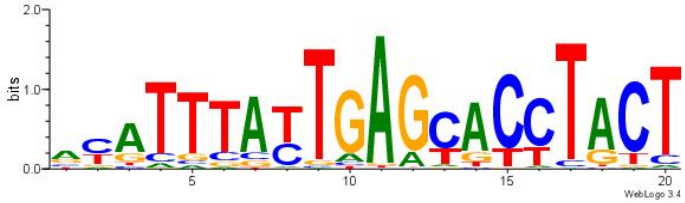

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128949

Alignment:

```
TCTGGAGTGGACCTCCAGCA
KCCGGGCCTTAGCTGCCTTC
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

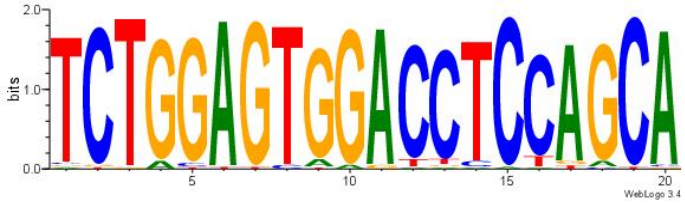

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

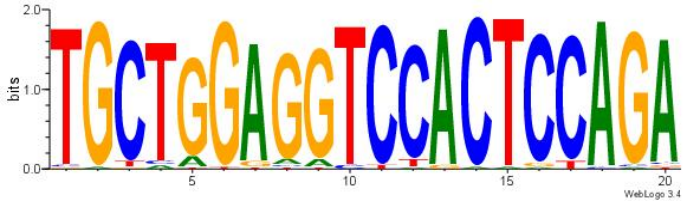

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.129097

Alignment:
TCTCTCTCTCTCTCTCTCTC
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

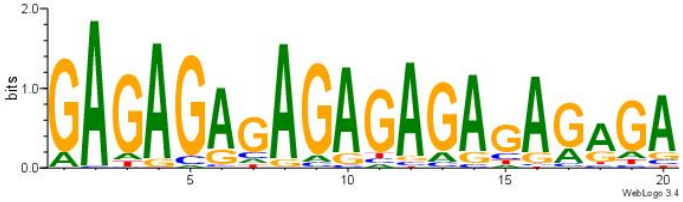

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

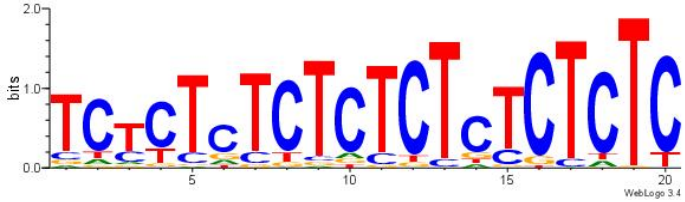

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129368

Alignment:
AGCCYCTGGYAACCAYYAWT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

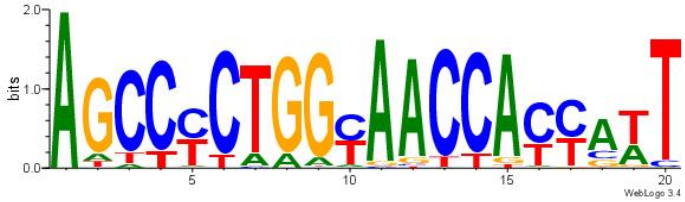

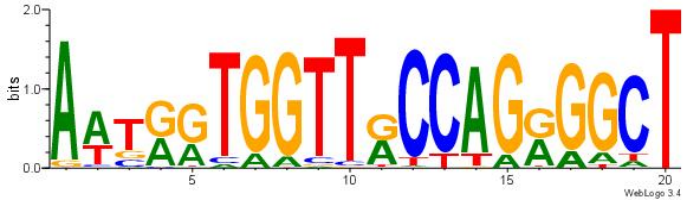

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130748

Alignment:
GGATTTMKGACTTGCATGGG
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

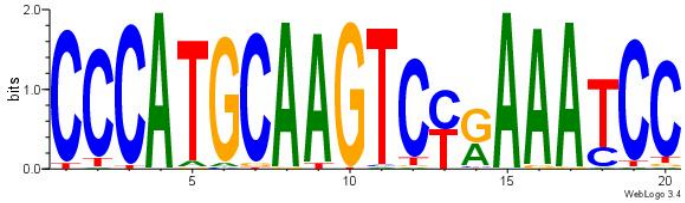

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

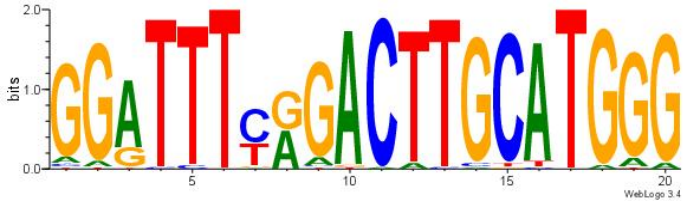

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131915

Alignment:

CTGGGTCCCCCAGCAGTGCC
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

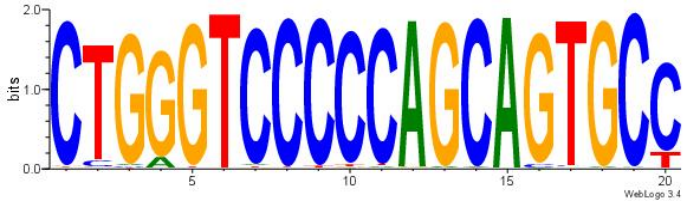

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

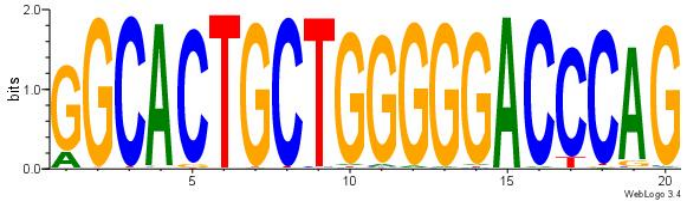

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132213

Alignment:
GTTATTAATTGGCCTAATTT
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

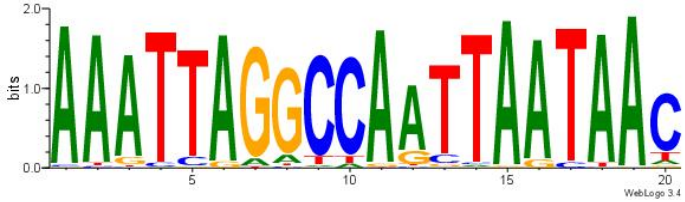

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.132332

Alignment:
GAAACTGCTTTGTGATGTGT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

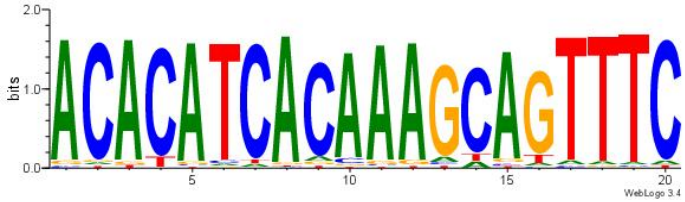

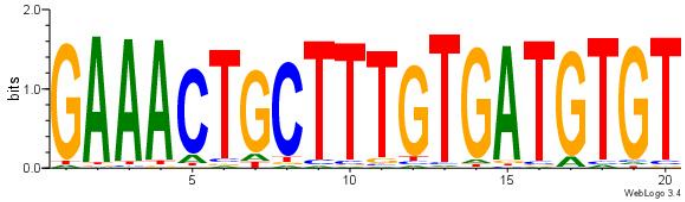

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132745

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

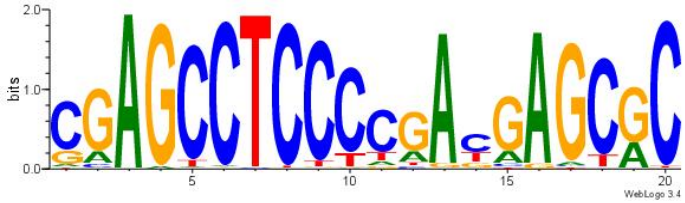

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

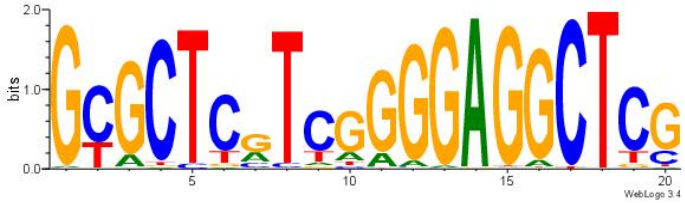

Dataset #:	1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132922

Alignment:

GTTTAACCATTGAGGGCCAG

KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

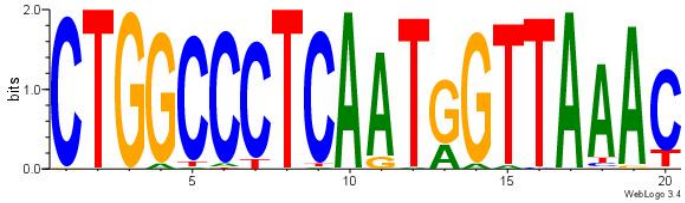

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

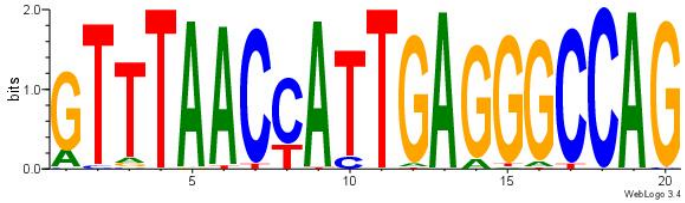

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133344

Alignment:
AAGCAGGGCGAGGCATTGCC
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

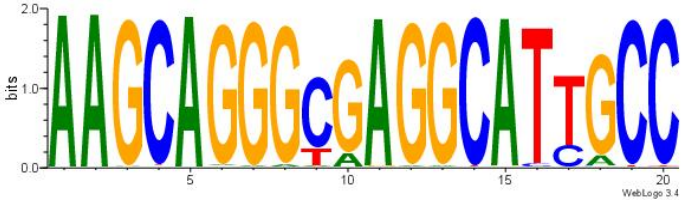

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

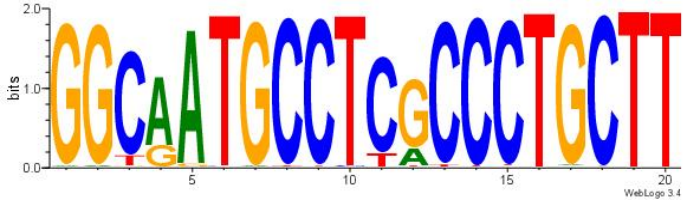

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133388

Alignment:
TAAAAGACTACAWATTGGGT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

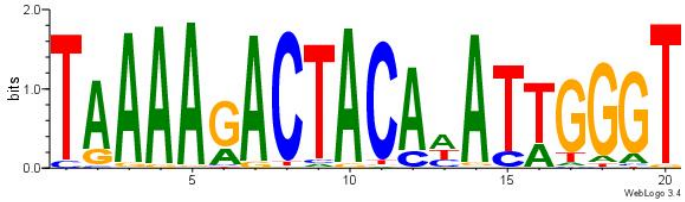

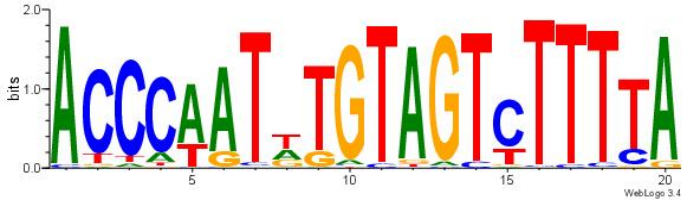

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133504

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
KCCGGGCCTTAGCTGCCTTC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

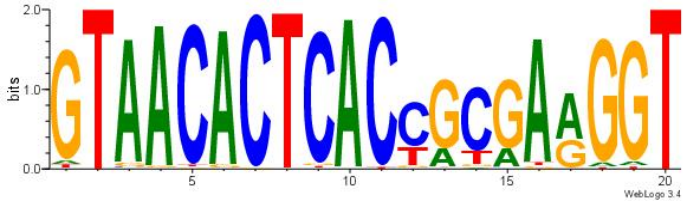

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

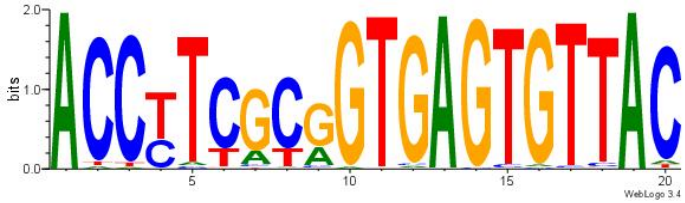

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133626

Alignment:
ACTGTCTTCCACCTCCACAT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

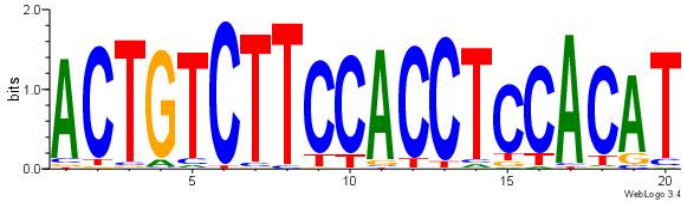

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

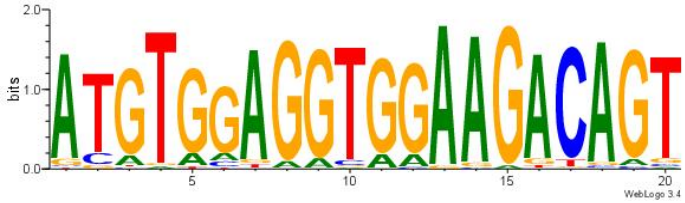

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133654

Alignment:
ATTGATMKCCAGGGTTGATT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

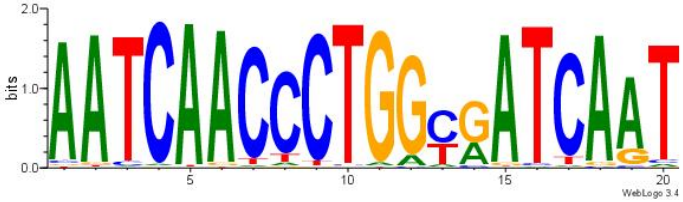

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

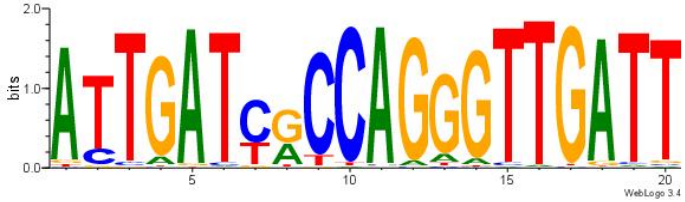

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133813

Alignment:
AAAAGTCCACAGTCCAAAGT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

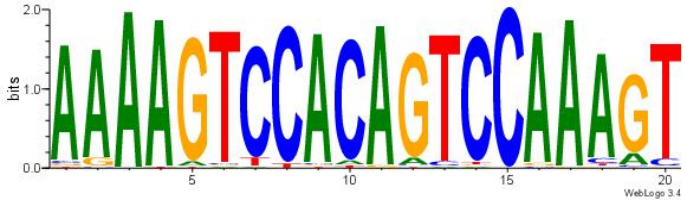

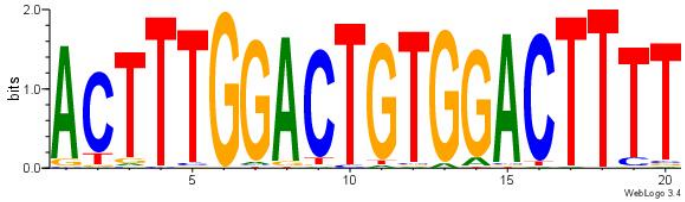

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133882

Alignment:

```
AAAATCACAAGCATTCCTAT
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

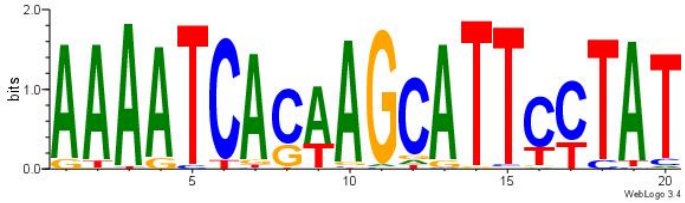

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

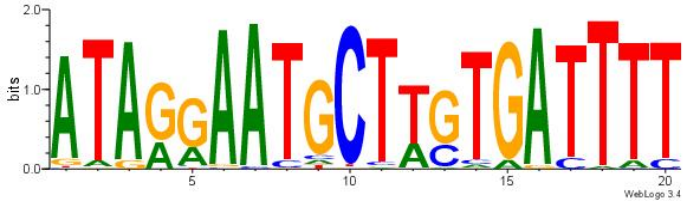

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134334

Alignment:
AGTGAGAACATRYRRTRTTT
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

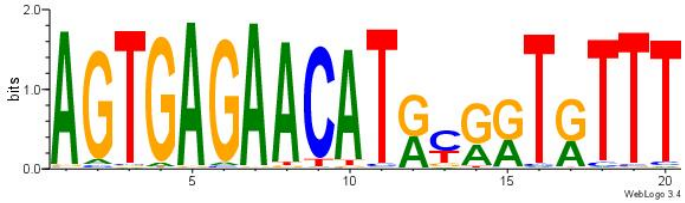

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

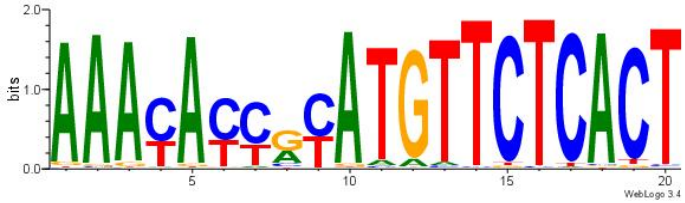

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136149

Alignment:
CTTGCCCAAGGTCACACAGC
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

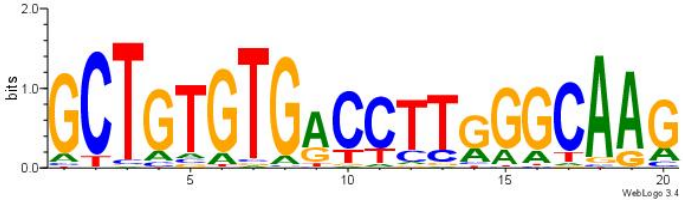

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

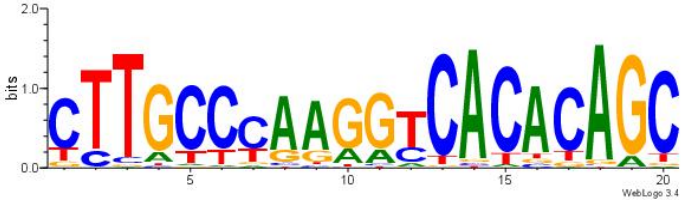

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136455

Alignment:
AAAATGTGGTAYATAYAYAC
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

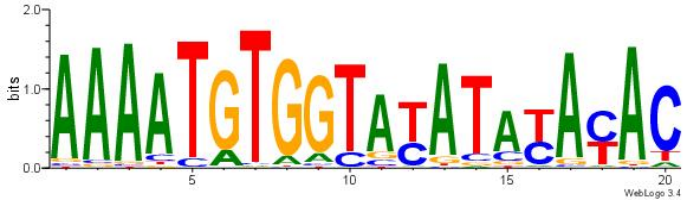

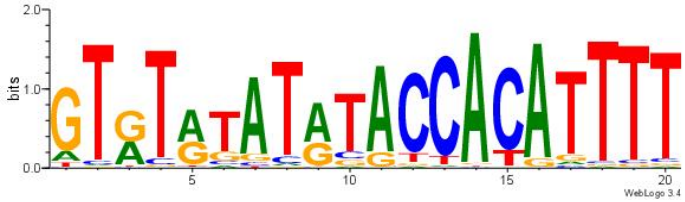

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137115

Alignment:
GGGCTCCCACAGTGCAGCGG
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

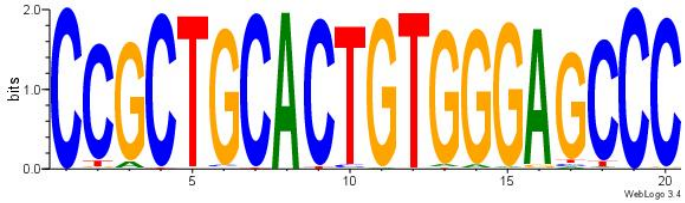

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

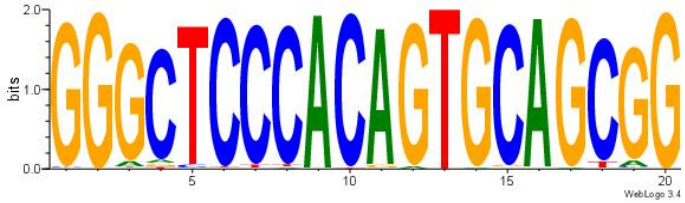

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137212

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

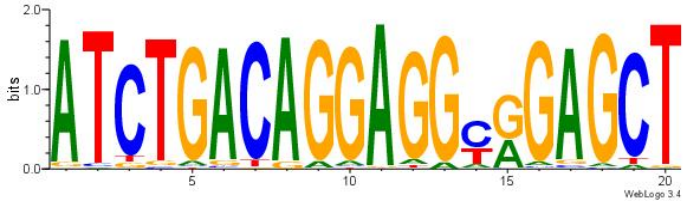

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

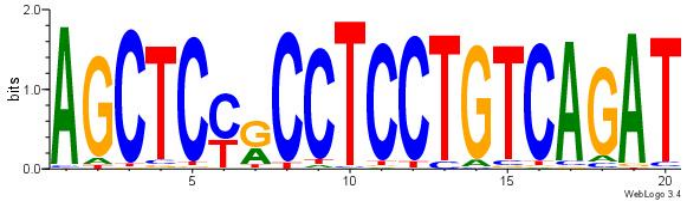

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.13739

Alignment:
ACCTGGAAAATCGGGTCACT
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

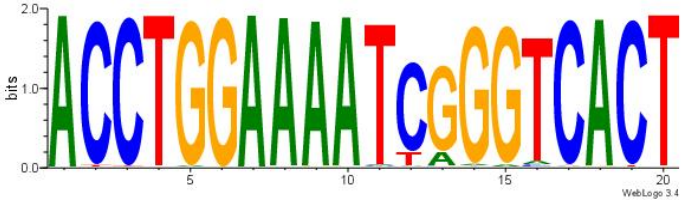

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

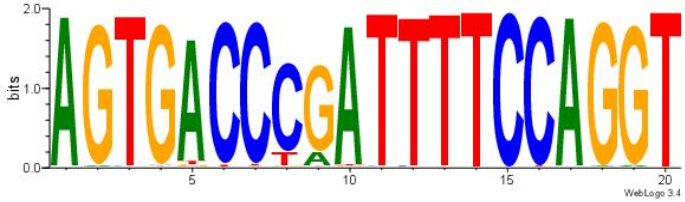

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.137467

Alignment:
GTGCCAGGCACTGTKCTARG
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

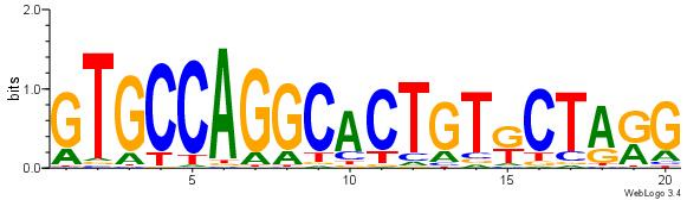

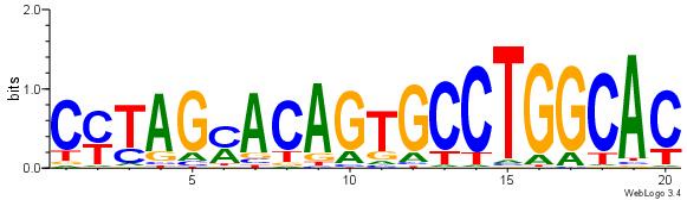

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139247

Alignment:

```
CAGCTACTCKTATACCCTTG
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

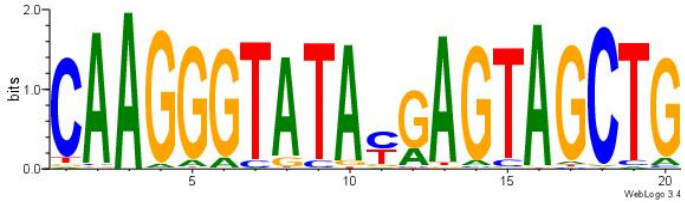

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

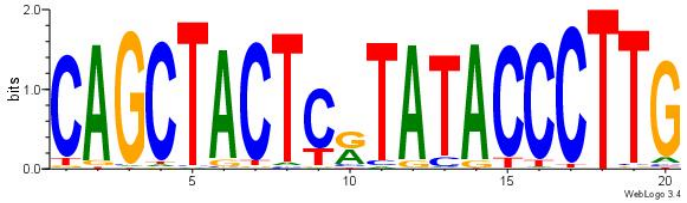

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140016

Alignment:

```
HAGTGGKATTGCTGGATCAT
KCCGGGCCTTAGCTGCCTTC
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

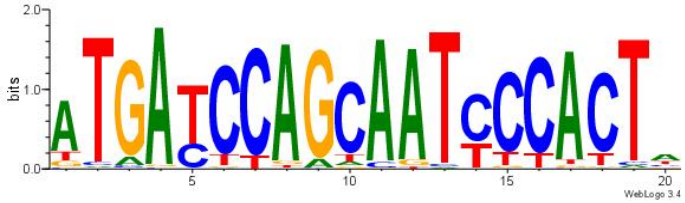

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

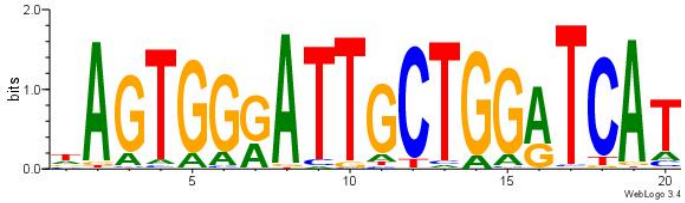

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140858

Alignment:
GCAAAKGACATGATYTCATT
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

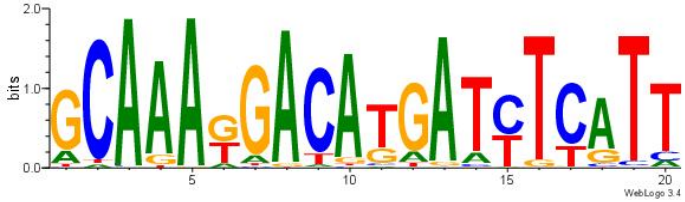

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

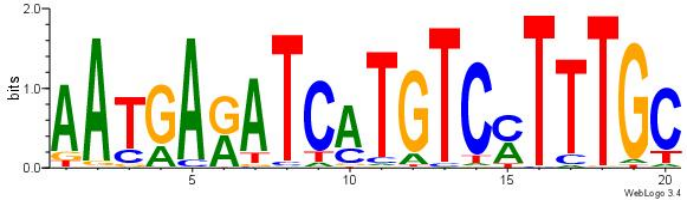

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141088

Alignment:
TGGCTTCACCCAGTGGATCC
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

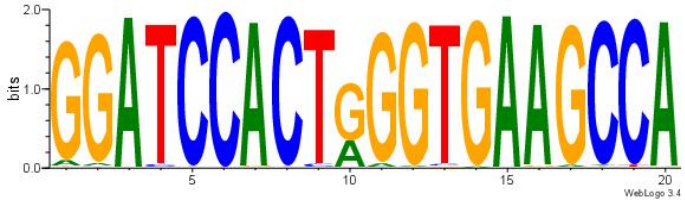

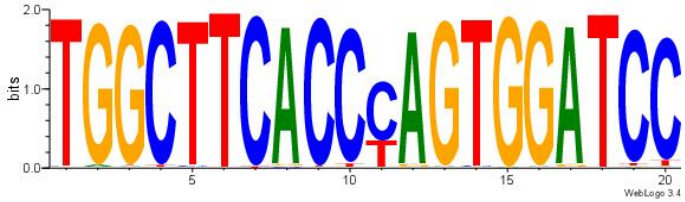

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141755

Alignment:

```
TACCTGAGACTGGGTAATTT
GAAGGCAGCTAAGGCCCGGY
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

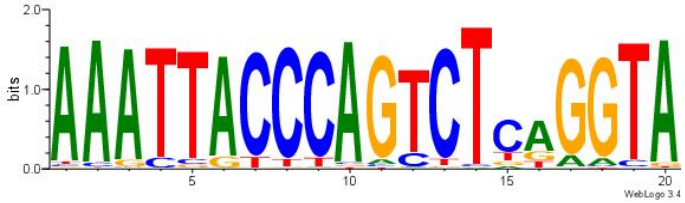

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

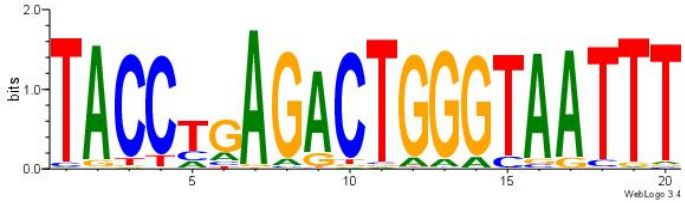

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141932

Alignment:
AACAACASACACTGGGGCCT
GAAGGCAGCTAAGGCCCGGY

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

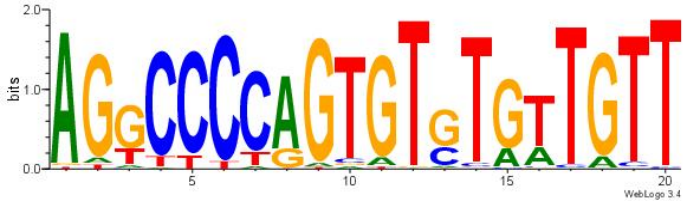

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

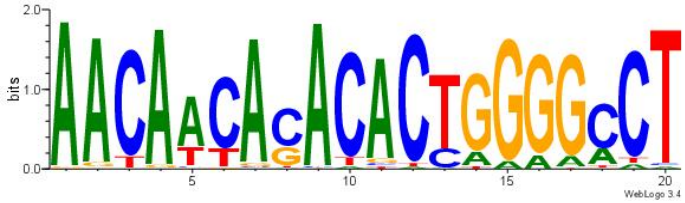

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.142275

Alignment:
TAATTTTATGTGTCAACTTG
KCCGGGCCTTAGCTGCCTTC

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

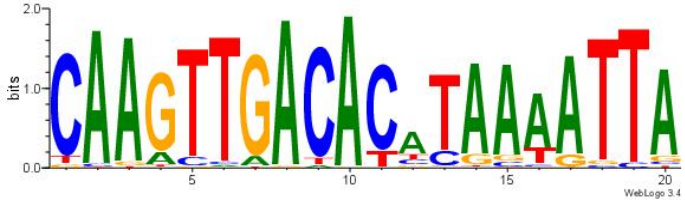

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

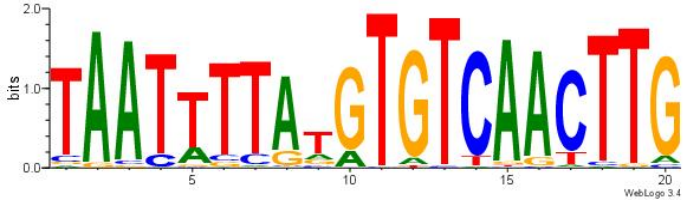

Dataset #: 1 Motif ID: 65 Motif name: Motif 65

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

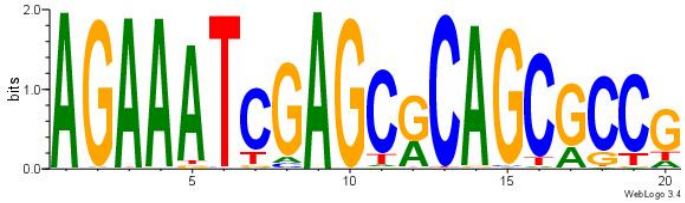

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

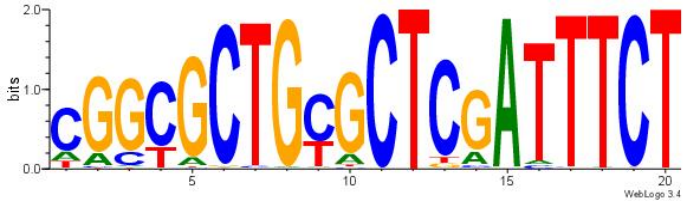

Best Matches for Motif ID 65 (Highest to Lowest)

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126973

Alignment:

ARCTCCTGKSCTCAAGKGAT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

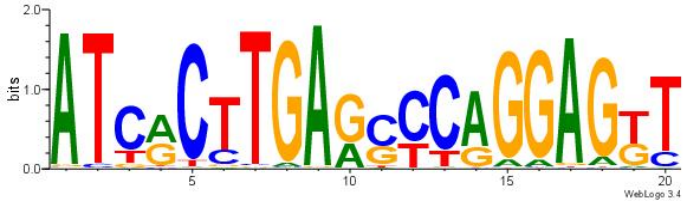

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

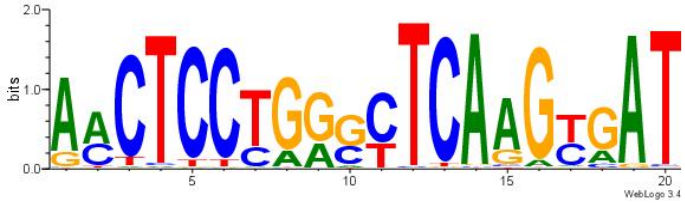

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134703

Alignment:

CGTCGCTCACGCTGGGAGCT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

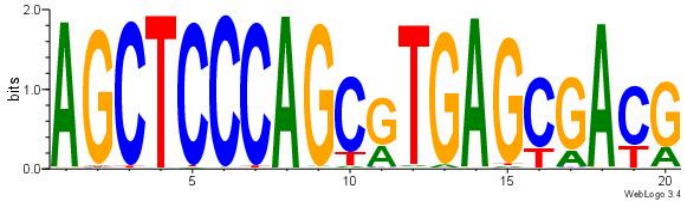

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

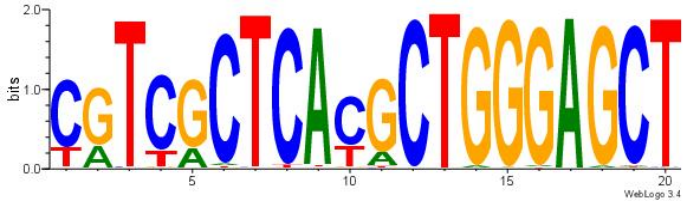

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135709

Alignment:
AGCCYCTGGYAACCAYYAWT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

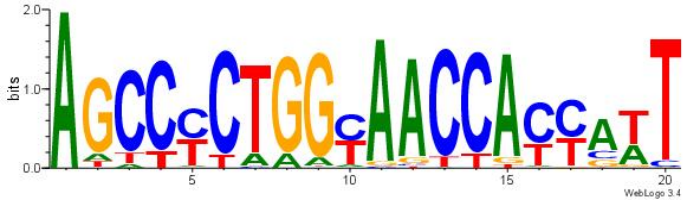

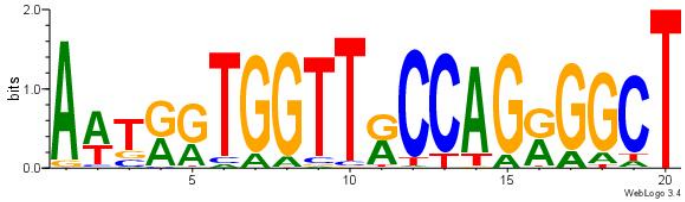

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135953

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

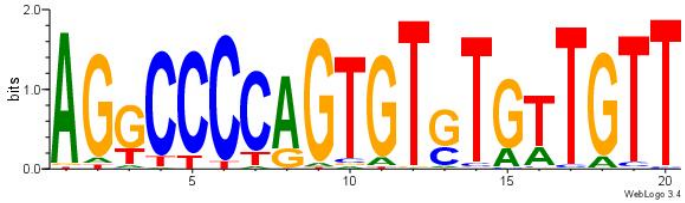

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

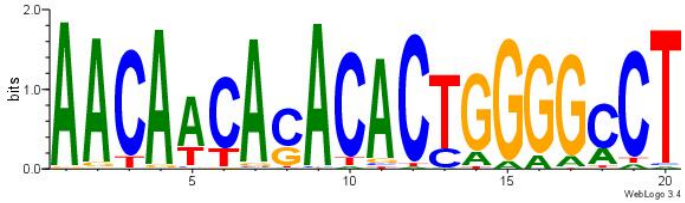

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137378

Alignment:
GCACATGTAYCCYAGAACTT
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

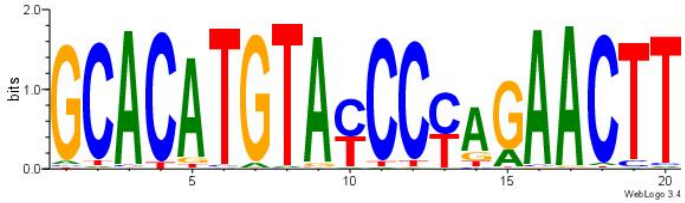

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

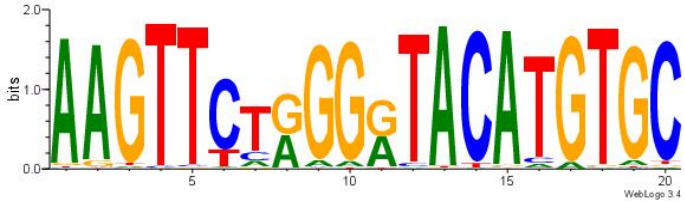

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137907

Alignment:
CTGACTGGGAGACACCTCCC
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

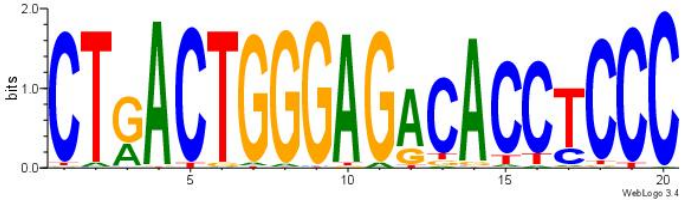

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

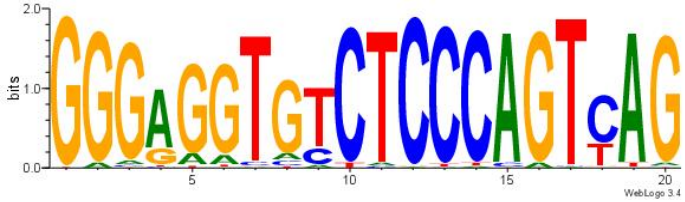

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139423

Alignment:
AAGCAGGGCGAGGCATTGCC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

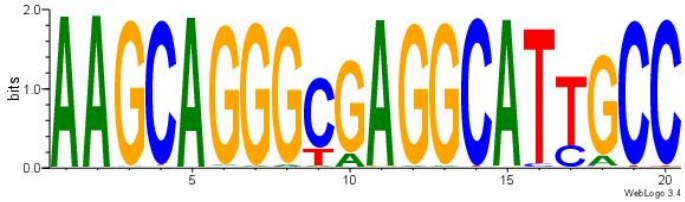

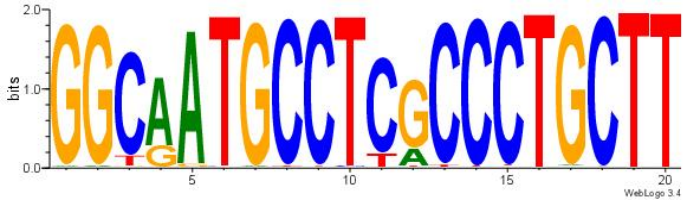

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140042

Alignment:

```
CAACATGGATGRARCTGGAG
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

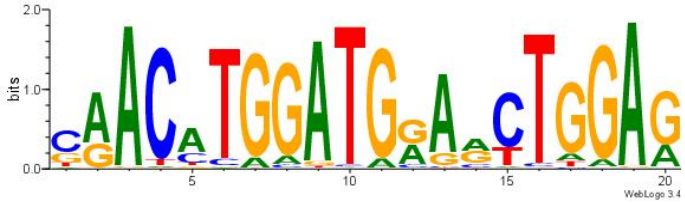

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

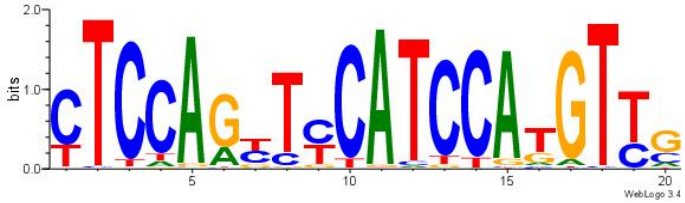

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14149

Alignment:

```
TAGATAATAGCTCCAGCTTT
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

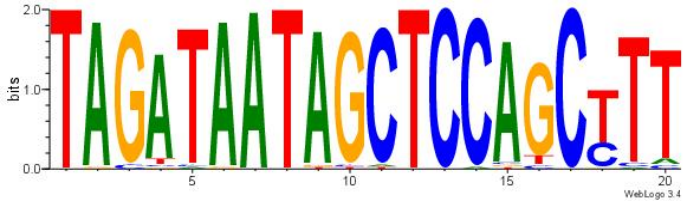

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

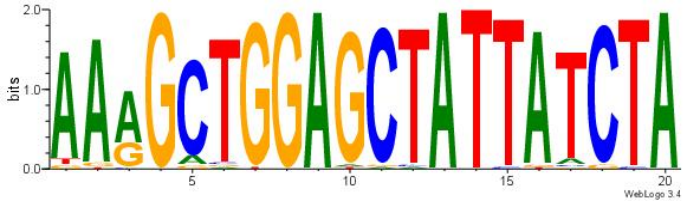

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.142768

Alignment:
CCCMKGGCACCCTCAGTCCT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

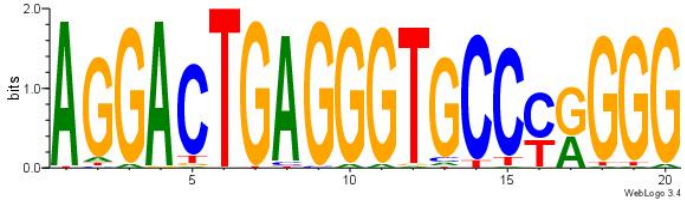

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

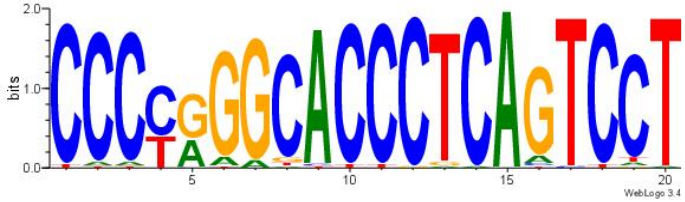

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143418

Alignment:
AGGTCCTTCAGGAGGTATTC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

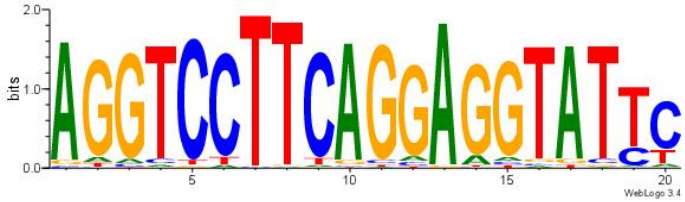

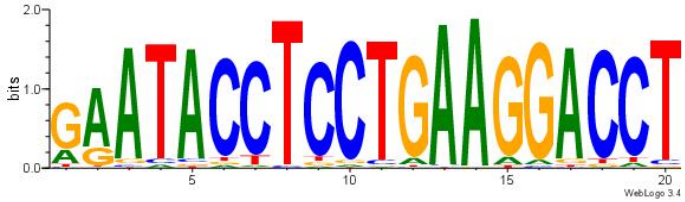

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144781

Alignment:

```
VMATTTAKTGAGCACCTACT
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

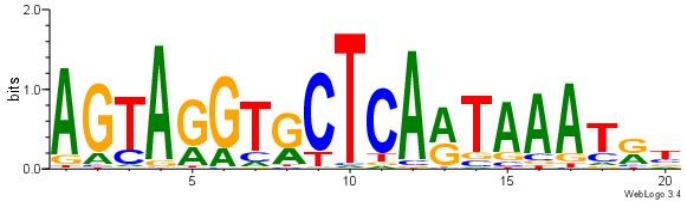

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

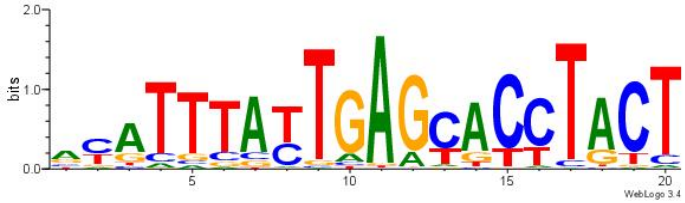

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147616

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

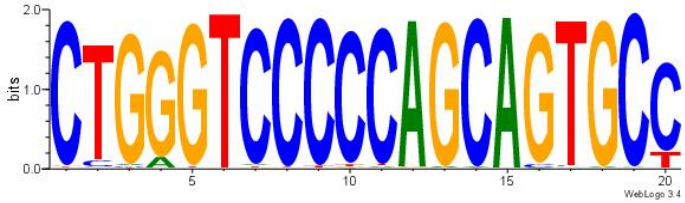

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

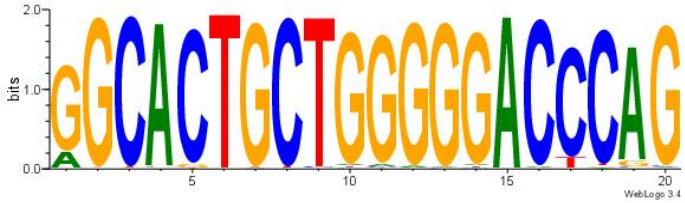

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150461

Alignment:
GTGTCKGGAGTTTGTTCCTT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

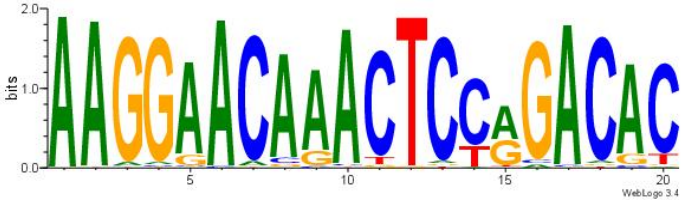

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

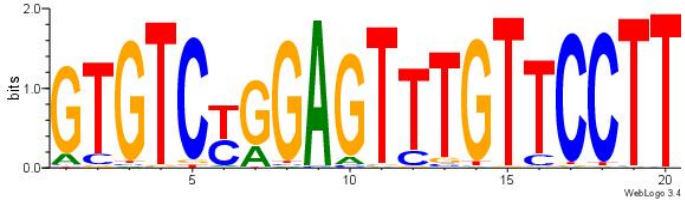

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152168

Alignment:
CRTGAGCCACYGYRCCYGGC
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

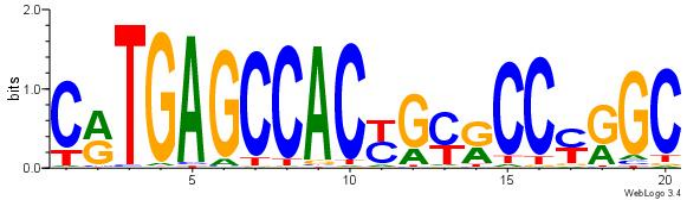

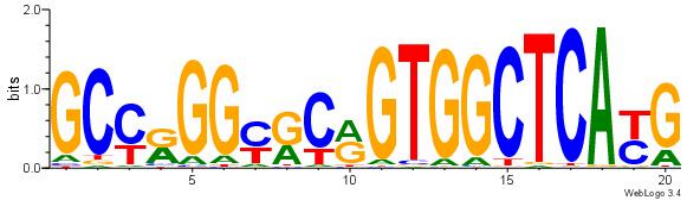

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152266

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

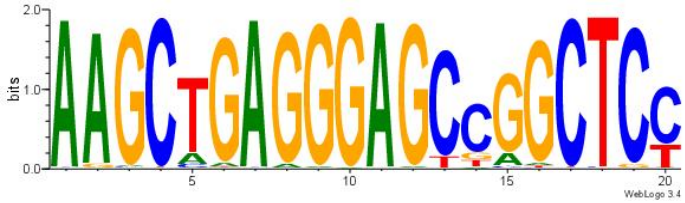

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

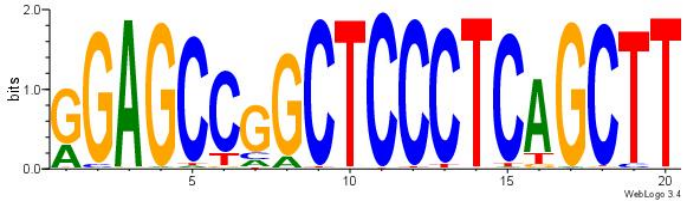

Dataset #: 1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152273

Alignment:

```
CMTAGYACAGTGCCTGGCAC
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

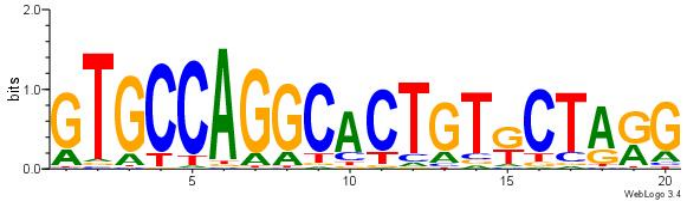

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

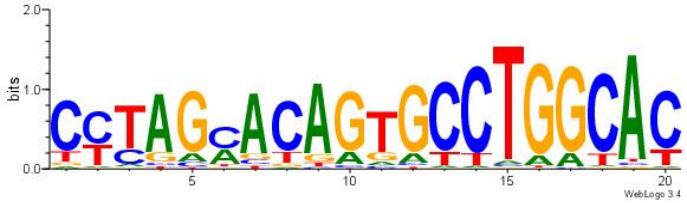

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152472

Alignment:
AAAAGTCCACAGTCCAAAGT
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

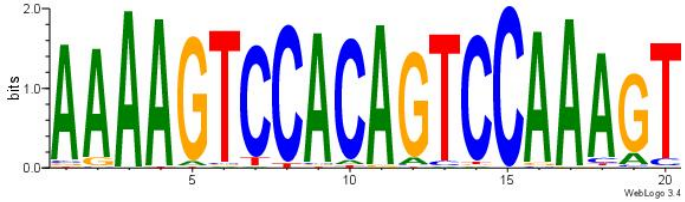

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

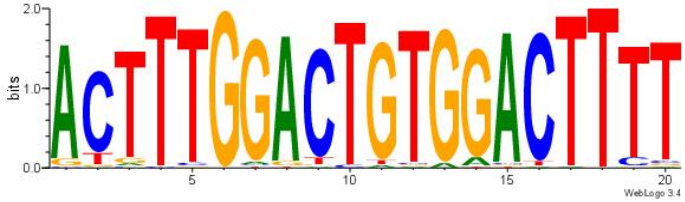

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154129

Alignment:
ACCGAGMKMGCAGCTTCGGG
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

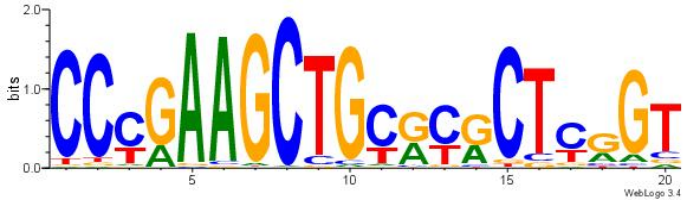

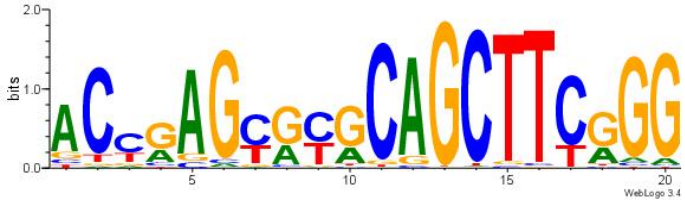

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154853

Alignment:
TGGAGAACCTTTATGTCTAG
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

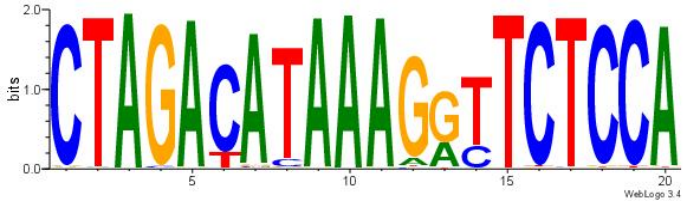

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

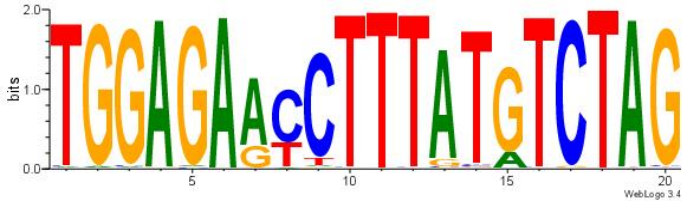

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155424

Alignment:

```
TAAAAGACTACAWATTGGGT
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

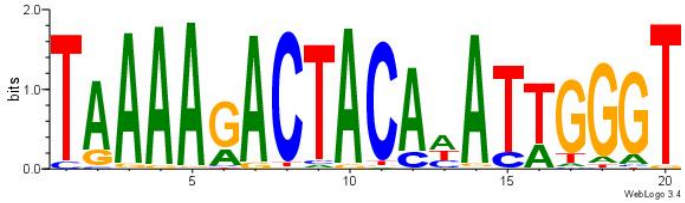

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

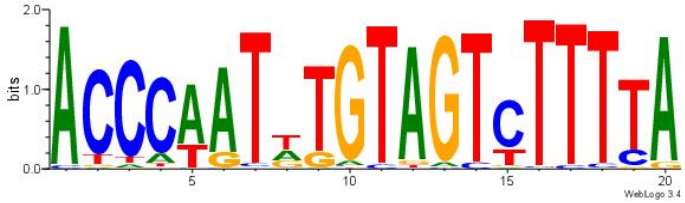

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156155

Alignment:
AGTGAGAACATRYRRTRTTT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

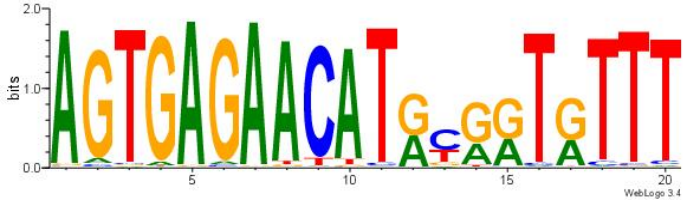

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

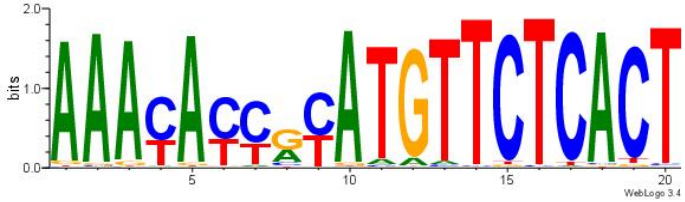

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158866

Alignment:
MGTCTMKCTCTGTKGCCCAG
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

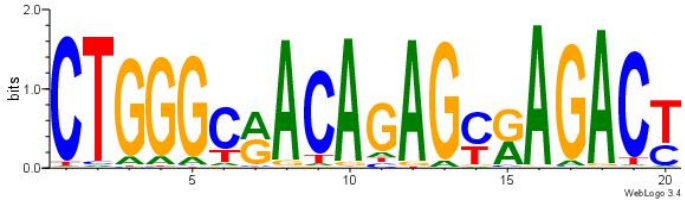

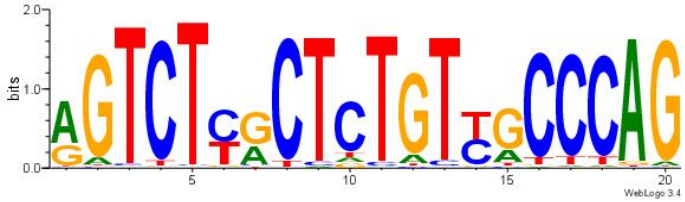

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160318

Alignment:

```
CCCATGCAAGTCYRAAATCC
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

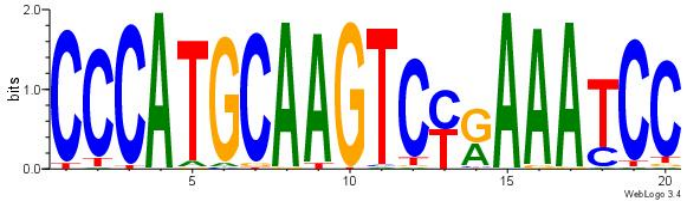

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

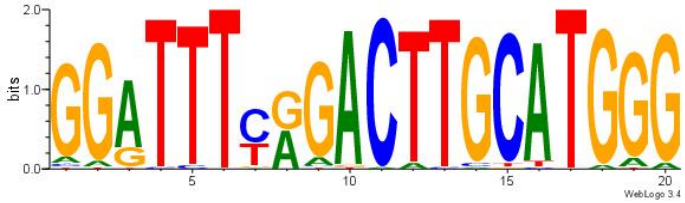

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160456

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

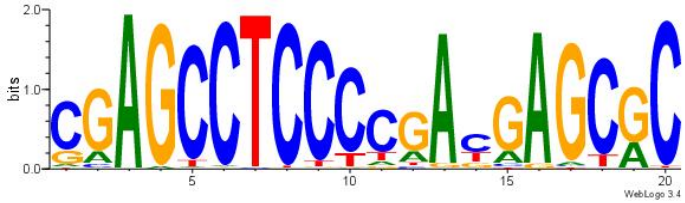

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

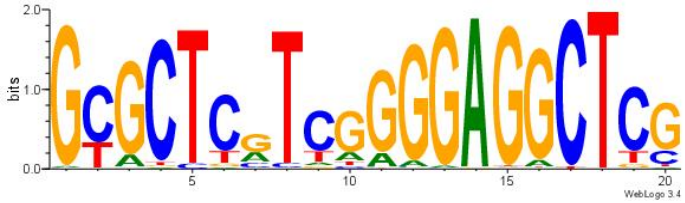

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.160847

Alignment:
TCCAAATGGGAGAAATTGGC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

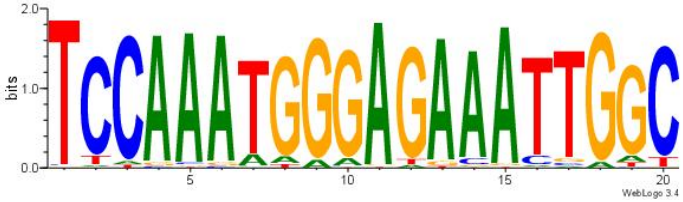

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

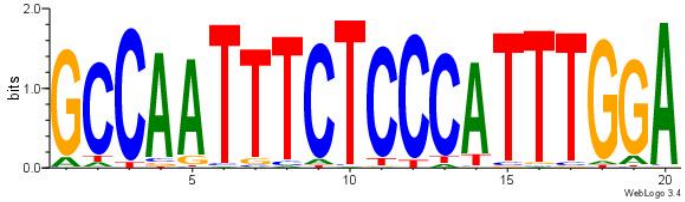

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.161073

Alignment:
CTGGGCTCCTGAGTCTGGTG
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

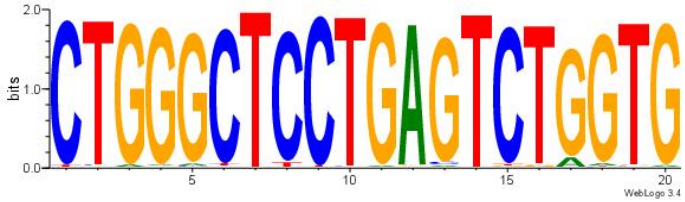

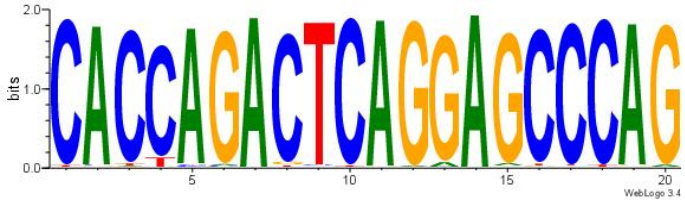

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162302

Alignment:

```
CTGGCCCTCAATGGTTAAAC
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

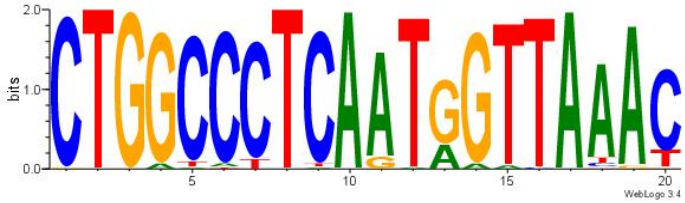

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

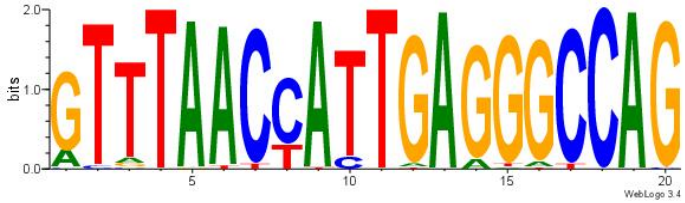

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162303

Alignment:

CACCAGGAGATTATATCCCR

CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

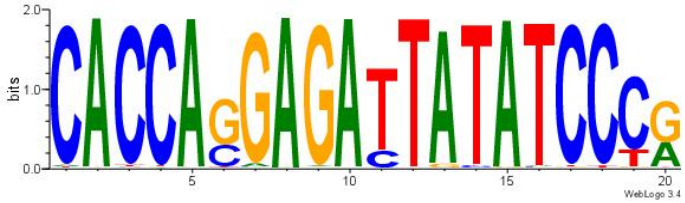

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

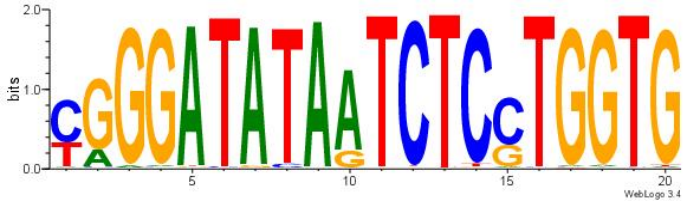

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162632

Alignment:
GTKTMTATMTACCACATTTT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

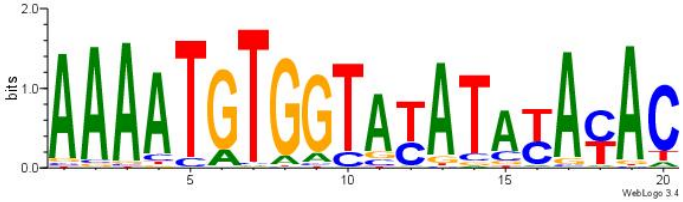

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

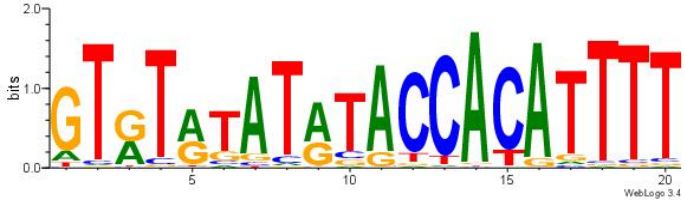

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162695

Alignment:
ATTGATMKCCAGGGTTGATT
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

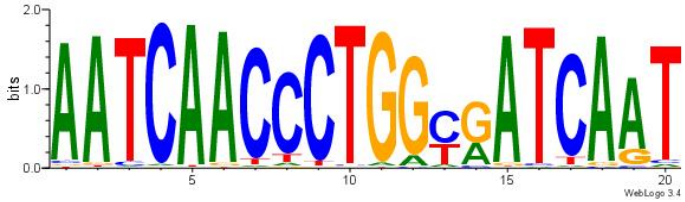

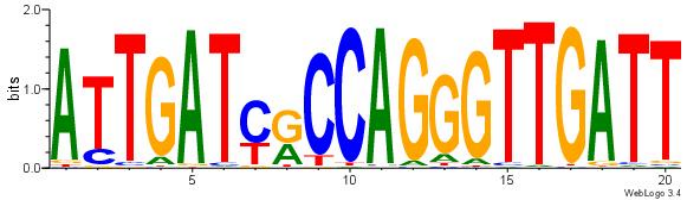

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163103

Alignment:

```
ATGGAATAYTATTCAGCCAT
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

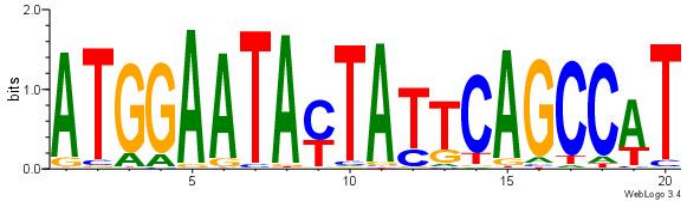

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

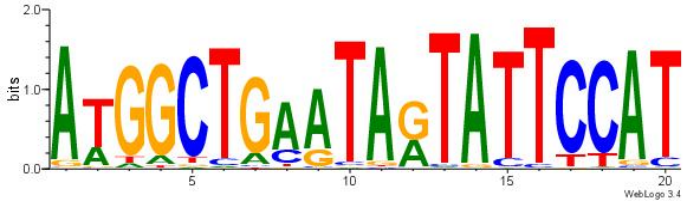

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163273

Alignment:
AGAGCCAAATCATGARTGAA
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

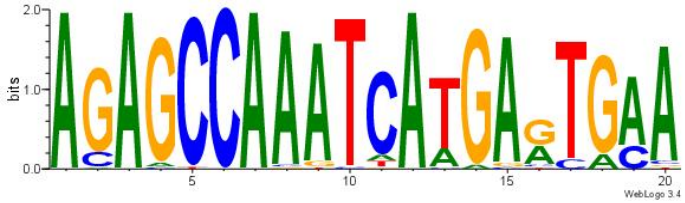

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

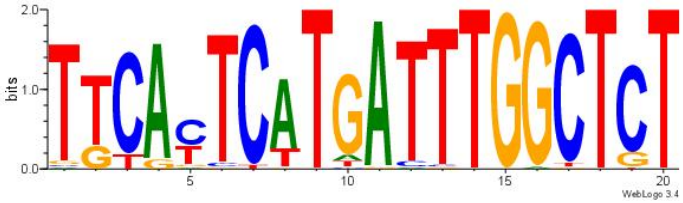

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.16349

Alignment:
AGGTTTGTTACATAGGTAWA
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

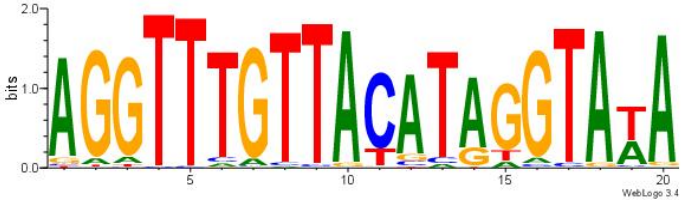

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

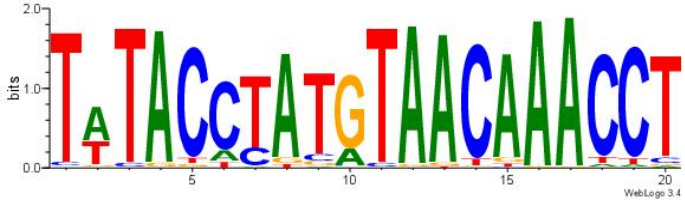

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.165115

Alignment:
TGGCTTCACCCAGTGGATCC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

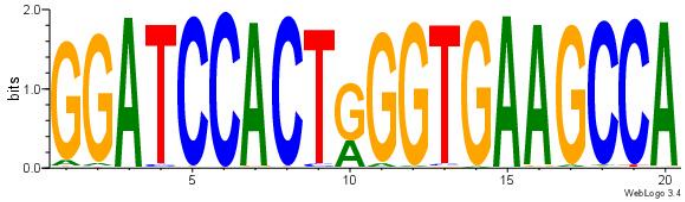

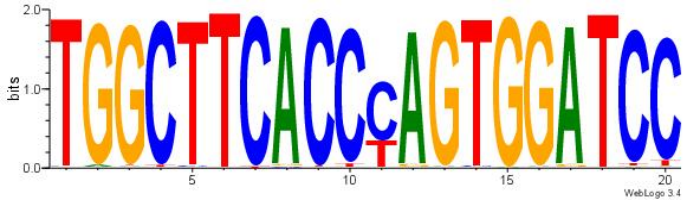

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16527

Alignment:

```
ATGATCCAGCAATYCCACTH
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

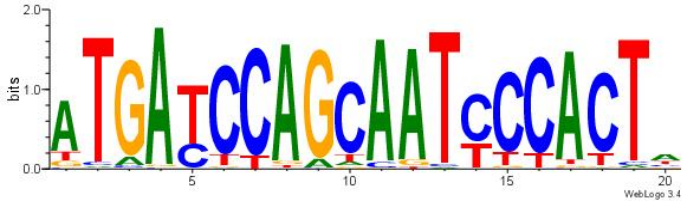

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

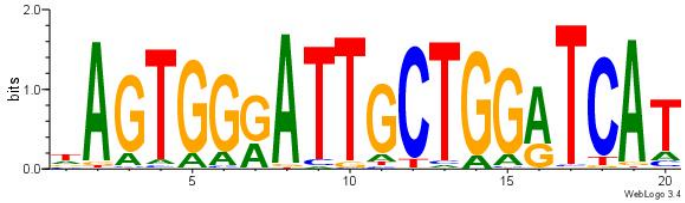

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16568

Alignment:

```
GAAAGGGAACTCCCTGACCC
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

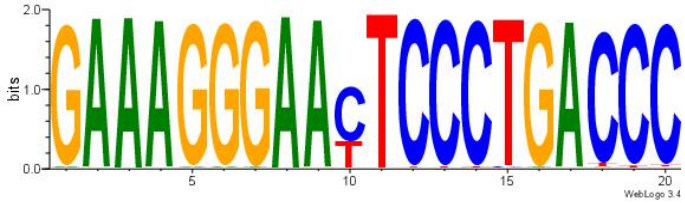

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

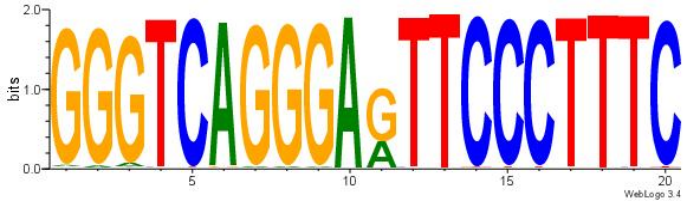

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.166105

Alignment:
CCGCTGCACTGTGGGAGCCC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

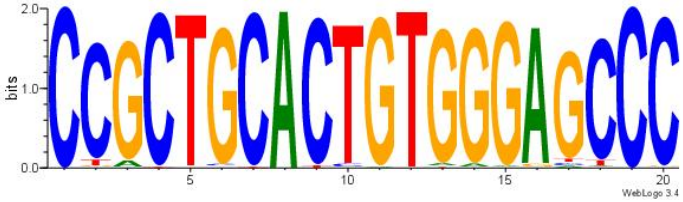

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

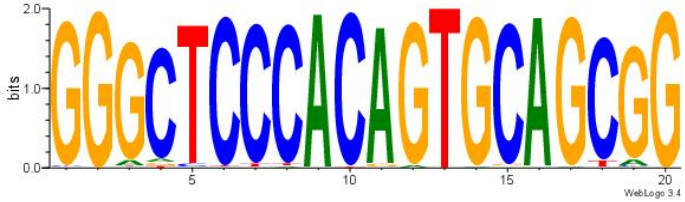

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16637

Alignment:
ATTGGTGTATTTACAATCCC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

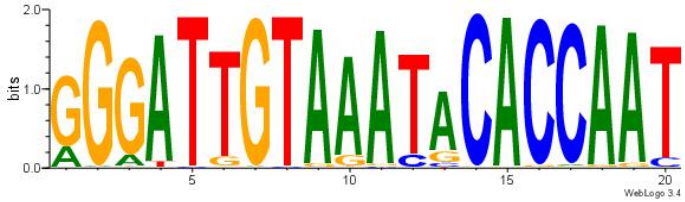

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166418

Alignment:
CAAGCCTSKGCAATGGCAGG
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

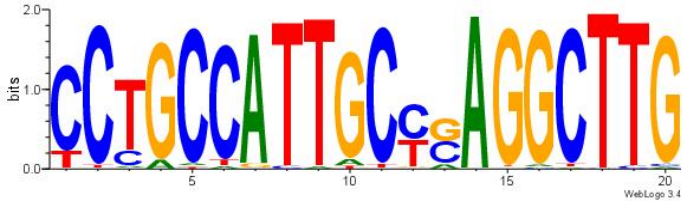

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

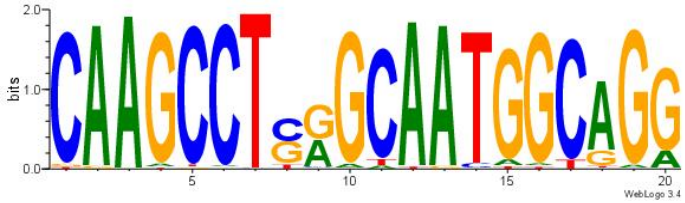

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166434

Alignment:

```
TACCTGAGACTGGGTAATTT
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

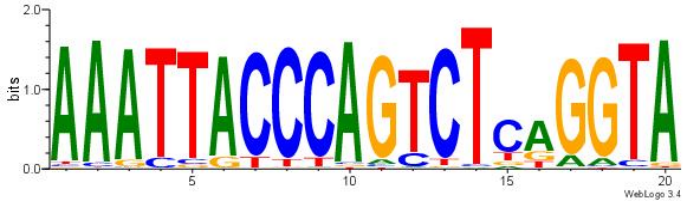

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

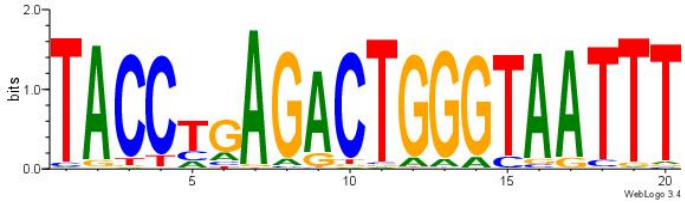

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16764

Alignment:
CTTGCCCAAGGTCACACAGC
AGAAATCGAGCRCAGCGCCG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

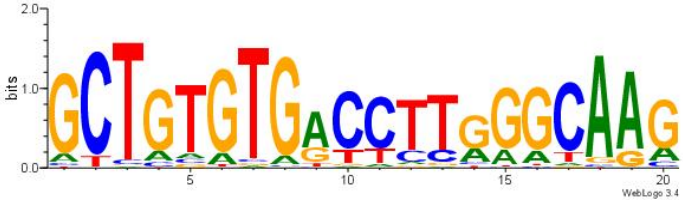

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

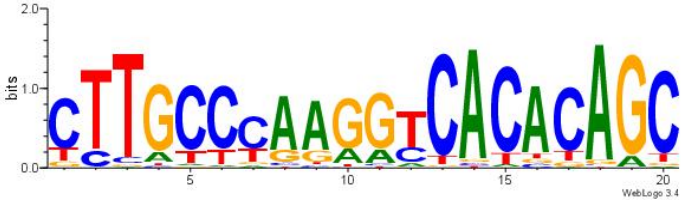

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.16796

Alignment:
TTGGTAGGATCCGTGATGCC
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

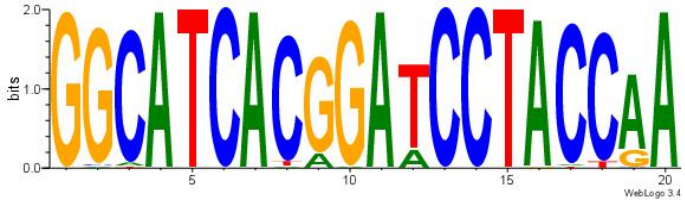

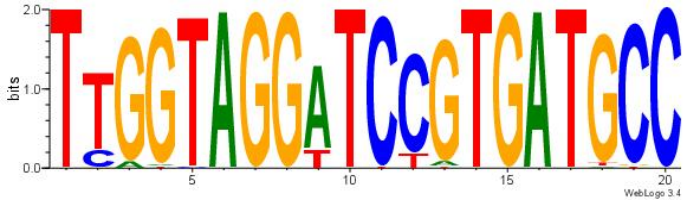

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16833

Alignment:

```
CAGGTGGTKTTTGGTTACAT
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

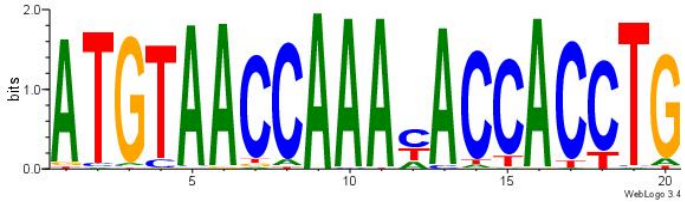

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

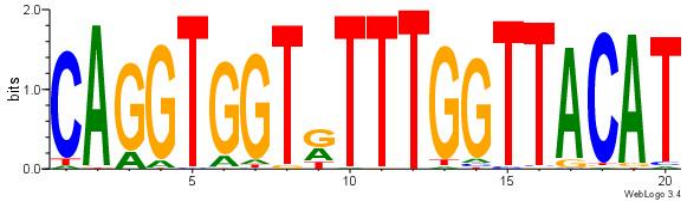

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168839

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
CGGCGCTGMGCTCGATTTCT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

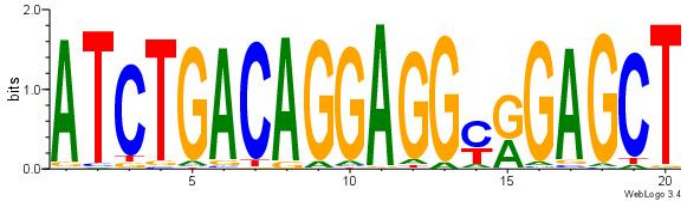

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

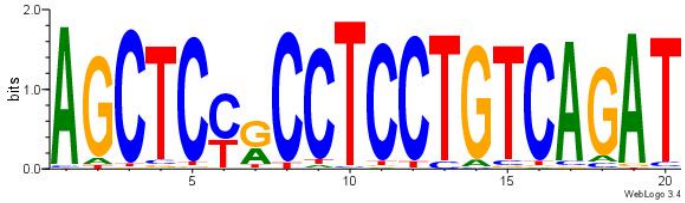

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.168959

Alignment:
GTGGCCCTCTTCTCACAGCT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

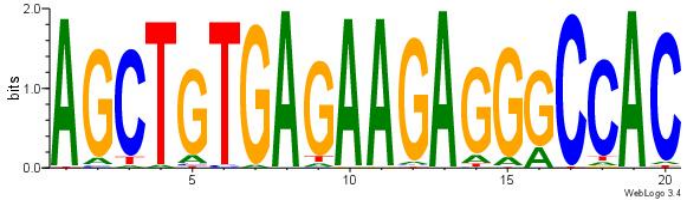

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

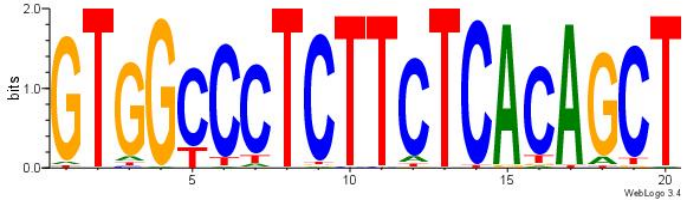

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.170289

Alignment:
MTCCTCCAGACCCCAGAATG
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

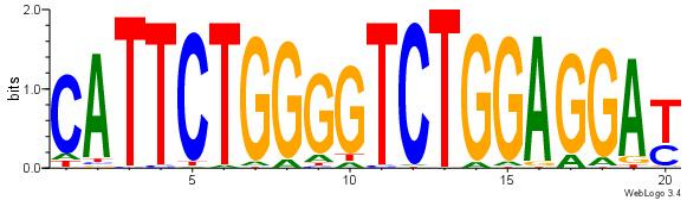

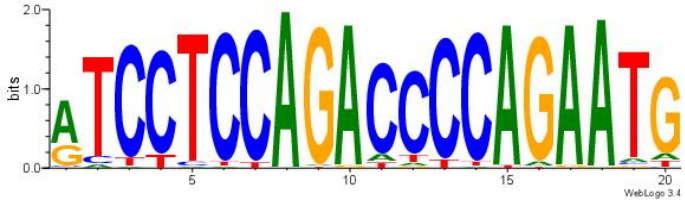

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.170575

Alignment:

```
ACACATCACAAAGCAGTTTC
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

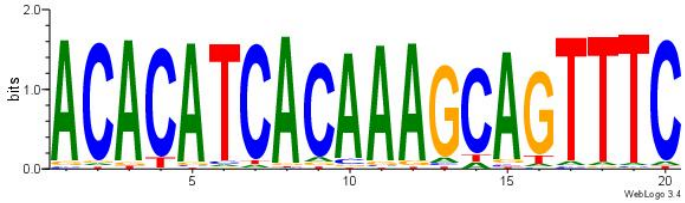

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

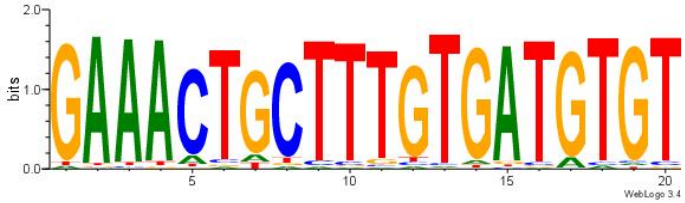

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.171276

Alignment:

```
CAAGGGTATAYGAGTAGCTG
AGAAATCGAGCRCAGCGCCG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

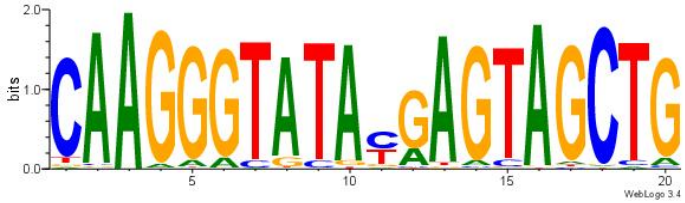

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

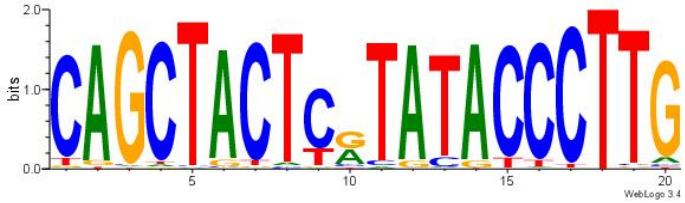

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.172288

Alignment:
ACTGTCTTCCACCTCCACAT
CGGCGCTGMGCTCGATTTCT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

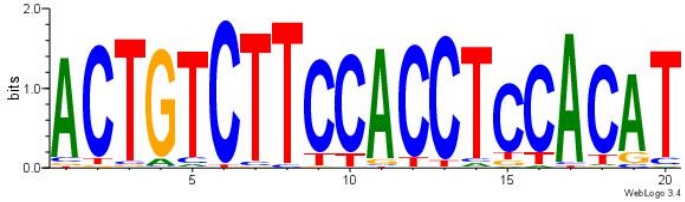

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

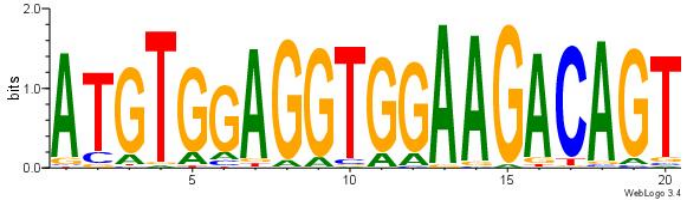

Dataset #: 1 Motif ID: 66 Motif name: Motif 66

Original motif Consensus sequence: ACACACAYACACACACACA

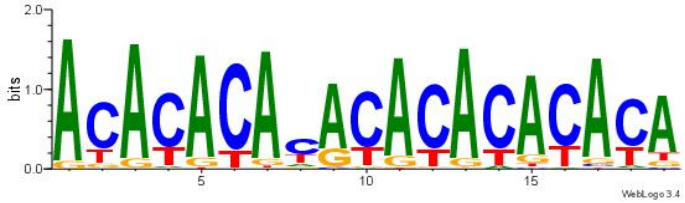

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

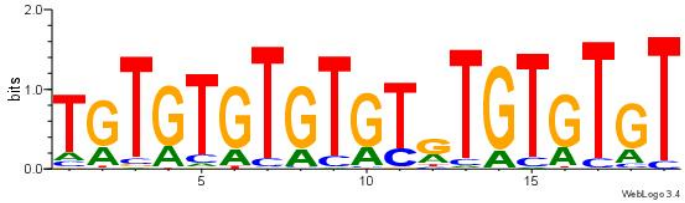

Best Matches for Motif ID 66 (Highest to Lowest)

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0762936

Alignment:

```
TYTGTCMTTTTGTGACTGGC
TGTGTGTGTGTKTGTGTGT-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

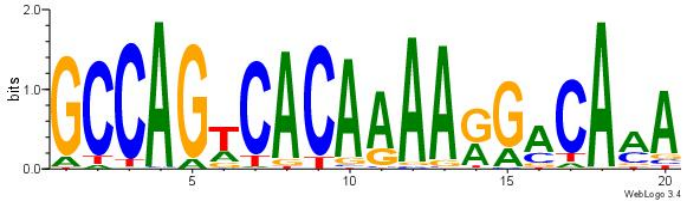

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

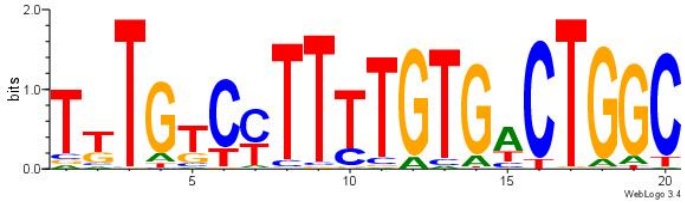

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.084962

Alignment:

GAGAGAGAGAGAGAGAGAGA
-ACACACAYACACACACACA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

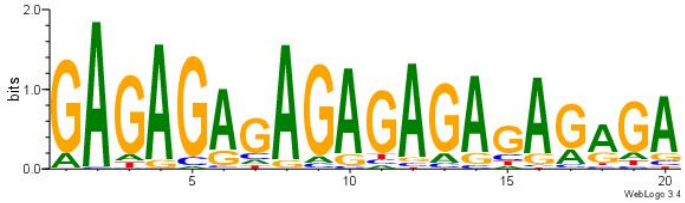

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

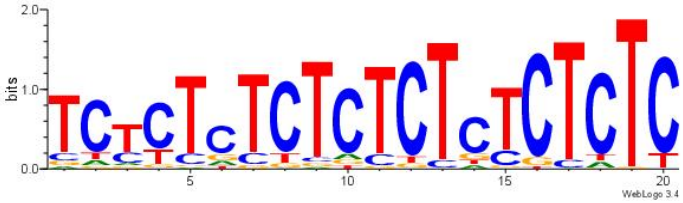

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0883926

Alignment:
AWTKKTGGTTKCCAGKGGCT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

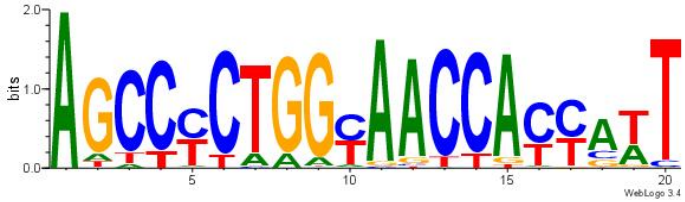

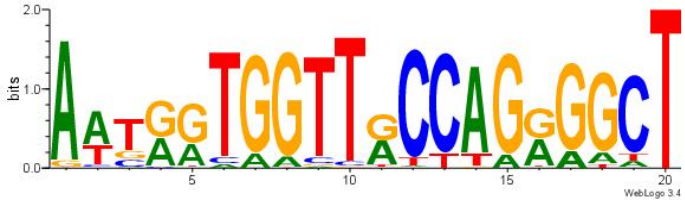

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0886505

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
TGTGTGTGTGTKTGTGTGT-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

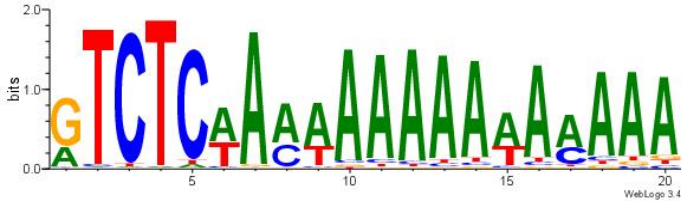

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

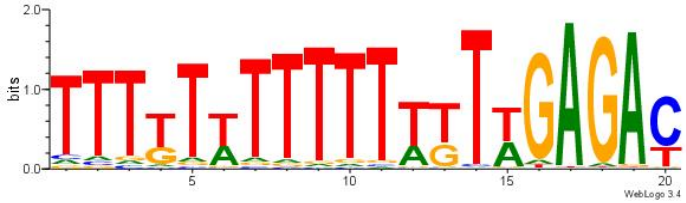

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0911508

Alignment:

```
ATAGGAATGCTTGTGATTTT
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

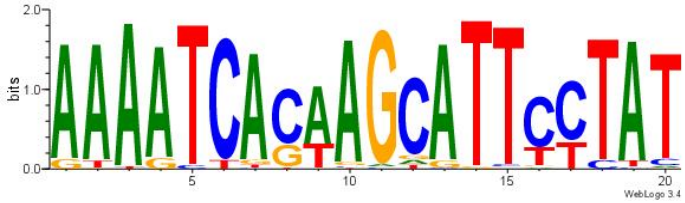

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

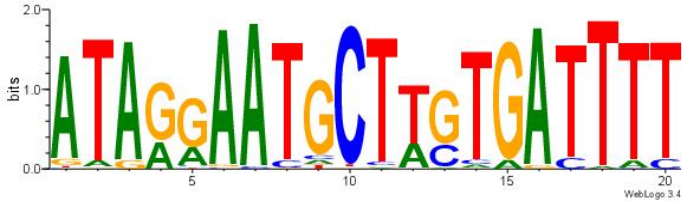

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.0925747

Alignment:
AAAATGTGGTAYATAYAYAC
ACACACAYACACACACACA-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

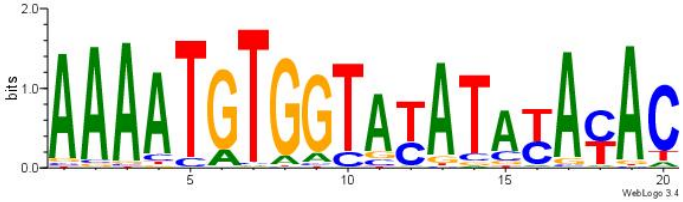

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

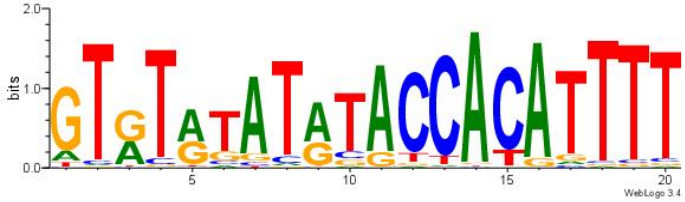

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.0959954

Alignment:
ATGTGGAGGTGGAAGACAGT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

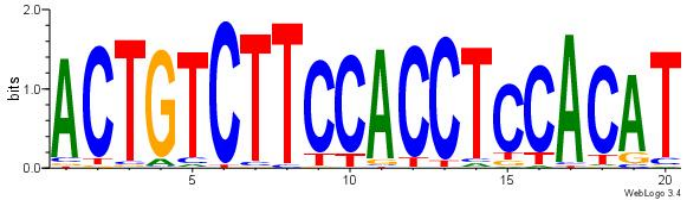

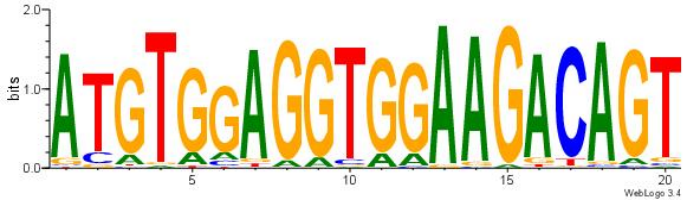

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0980022

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

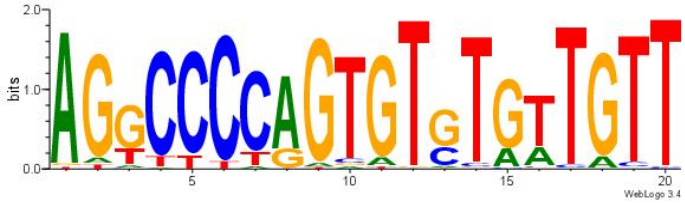

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

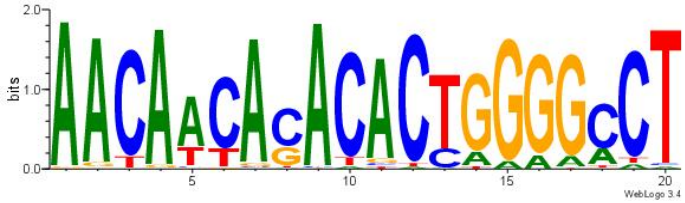

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0986553

Alignment:

```
CTTGCCCAAGGTCACACAGC
-ACACACAYACACACACACA
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

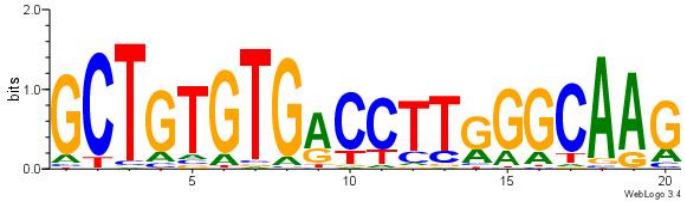

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

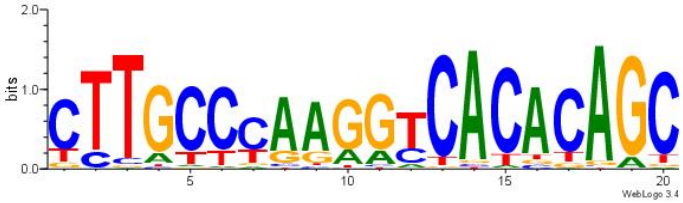

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.103311

Alignment:
AAGTTCTKGGKTACATGTGC
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

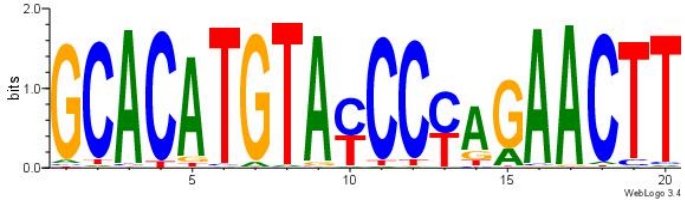

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

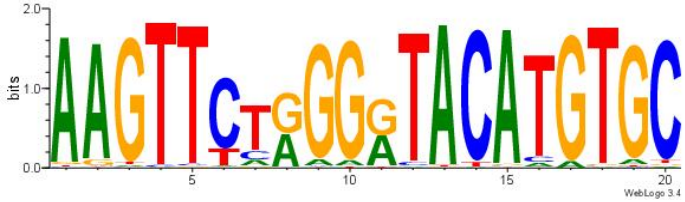

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.105198

Alignment:
CAAGTTGACACATAAAATTA
-ACACACAYACACACACACA

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

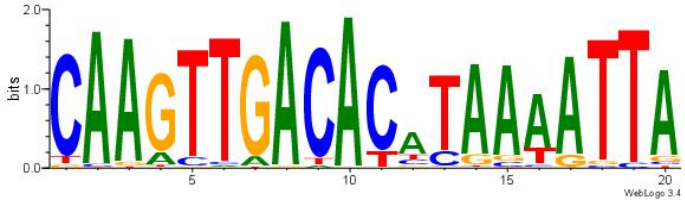

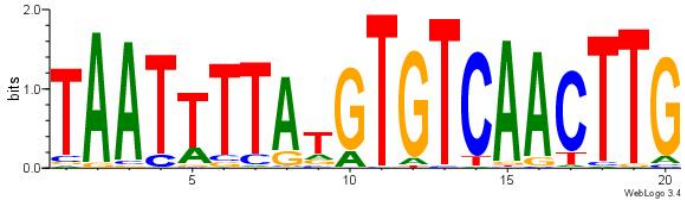

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.106473

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
TGTGTGTGTGTKTGTGTGT-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

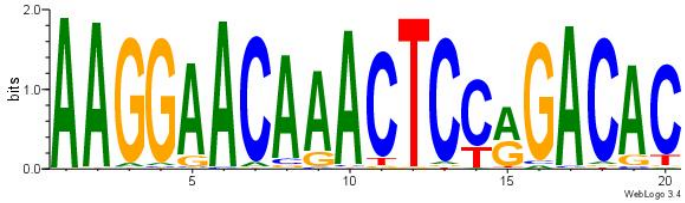

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

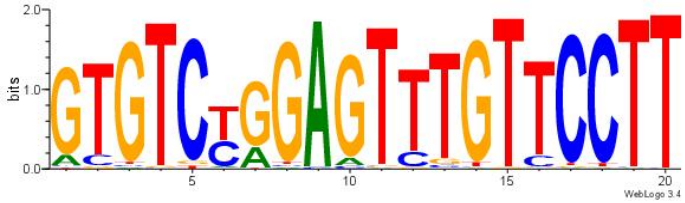

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.106722

Alignment:

```
GAAACTGCTTTGTGATGTGT
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

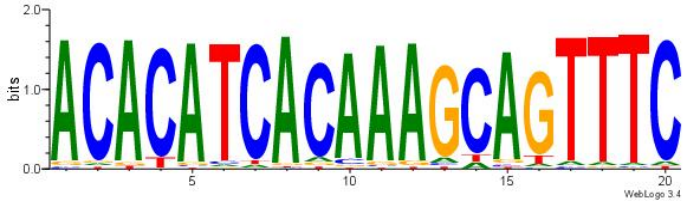

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

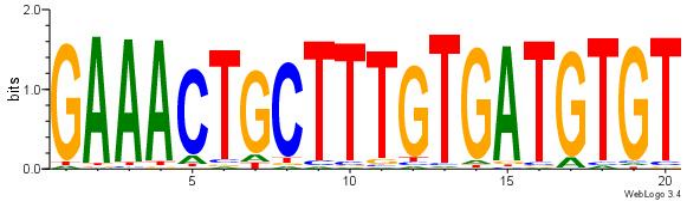

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.109021

Alignment:
CAGGTGGTKTTTGGTTACAT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

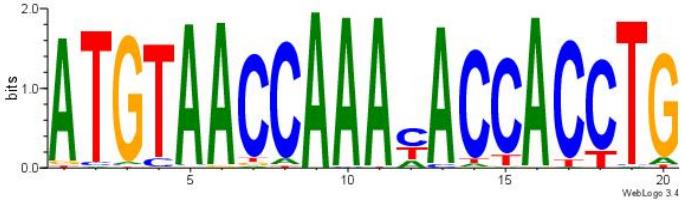

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

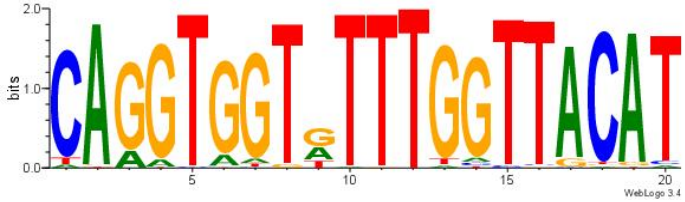

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.110314

Alignment:
AAATTACCCAGTCTCAGGTA
-ACACACAYACACACACACA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

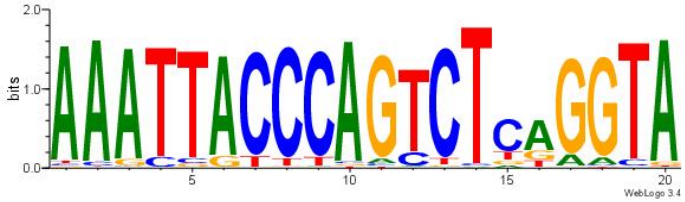

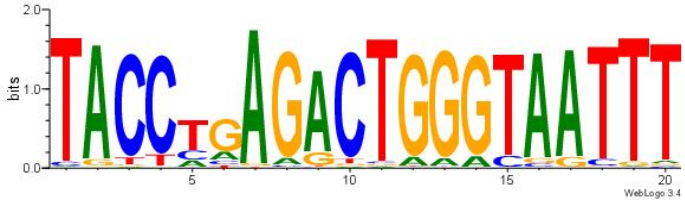

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.110757

Alignment:

```
HAGTGGKATTGCTGGATCAT
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

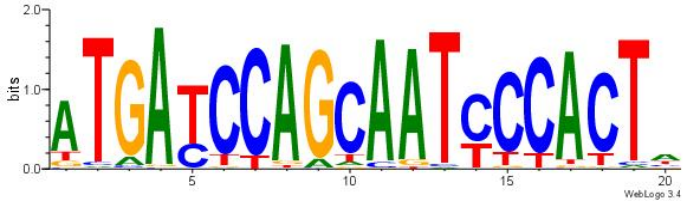

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

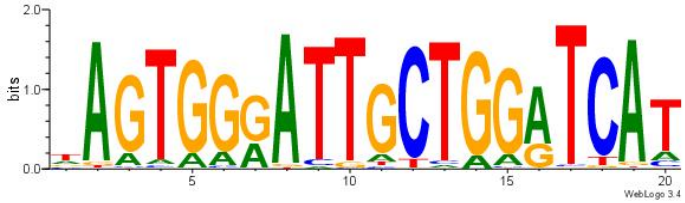

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.112313

Alignment:

```
CAGCTACTCKTATACCCTTG
-ACACACAYACACACACACA
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

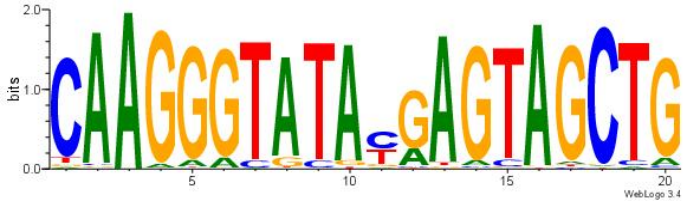

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

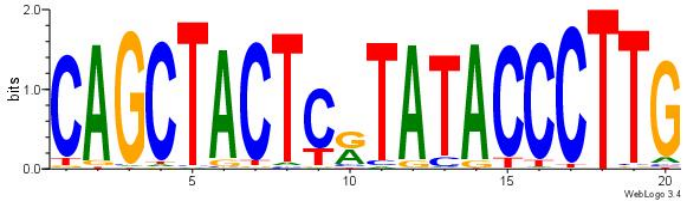

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.112503

Alignment:
CTAGACATAAAGGTTCTCCA
ACACACAYACACACACACA-

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

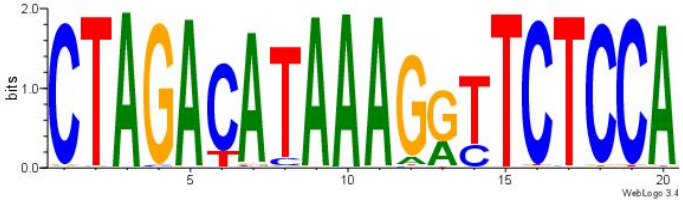

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

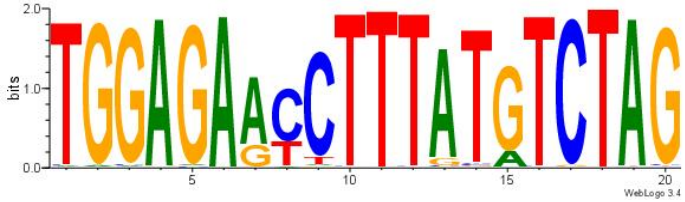

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.114774

Alignment:
CTCCAGKTMCATCCATGTTG
ACACACAYACACACACACA-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

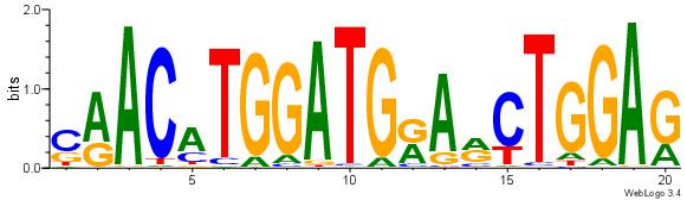

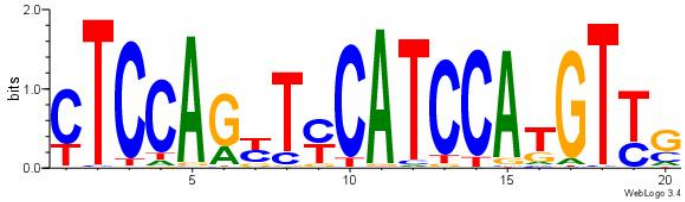

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.114871

Alignment:
GTTGTGAGGATTAAATGAG
TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

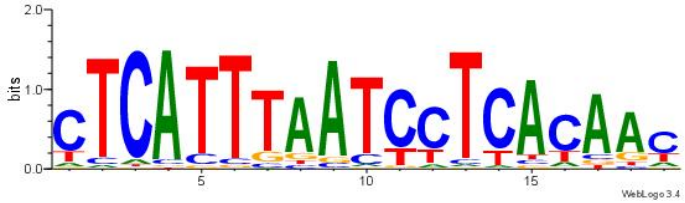

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

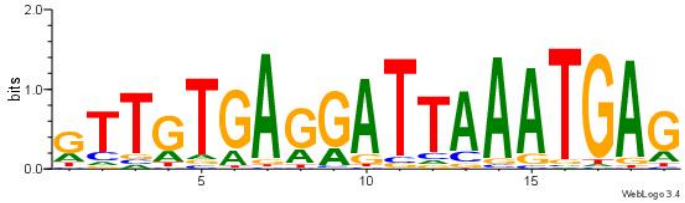

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.115408

Alignment:

```
GACTGGCAGGCAGCTCCACC
-ACACACAYACACACACACA
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

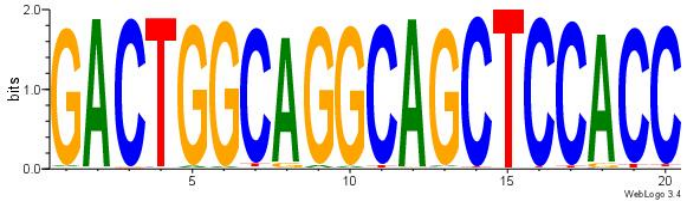

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

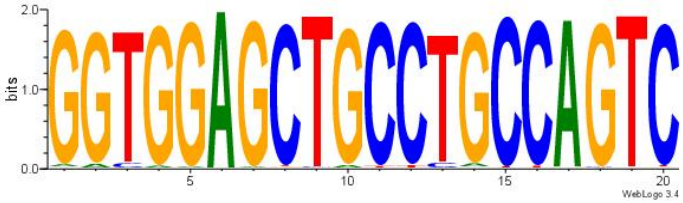

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.115546

Alignment:
ACCKTCGCGGTGAGTGTTAC
TGTGTGTGTGTKTGTGTGT-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

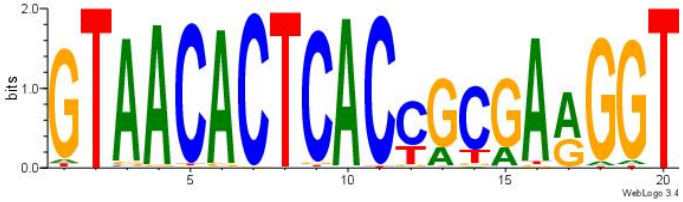

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

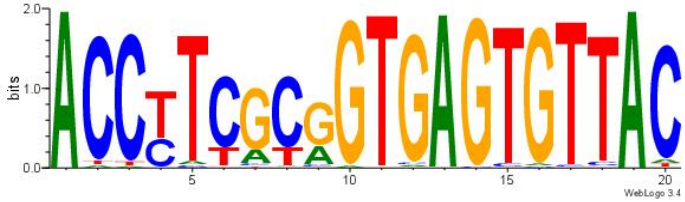

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.115679

Alignment:
ACTTTGGACTGTGGACTTTT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

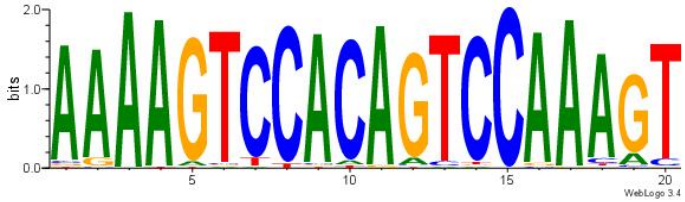

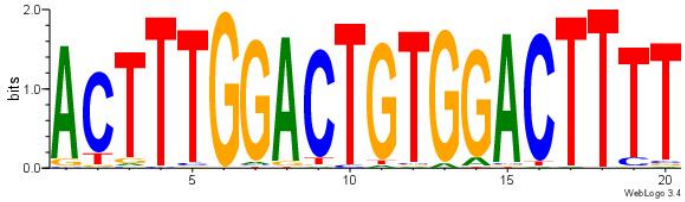

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.117223

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-ACACACAYACACACACACA
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

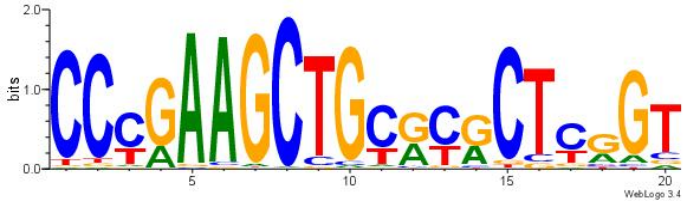

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

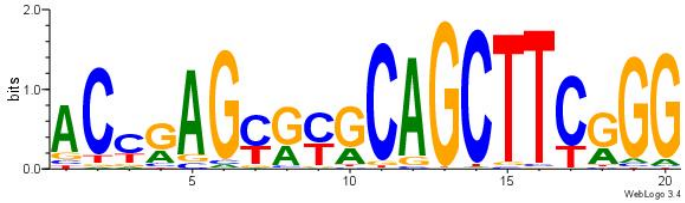

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.117429

Alignment:

```
AATGAKATCATGTCYTTTGC
TGTGTGTGTGTKTGTGTGT-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

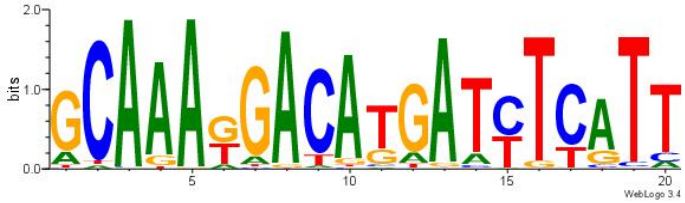

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

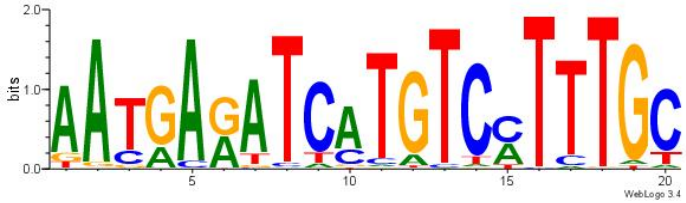

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.117501

Alignment:
ATGGCTGAATAKTATTCCAT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

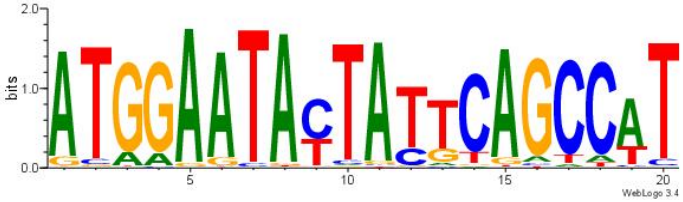

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

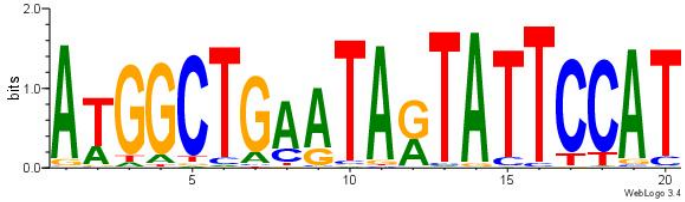

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.117898

Alignment:
AGTGAGAACATRYRRTRTTT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

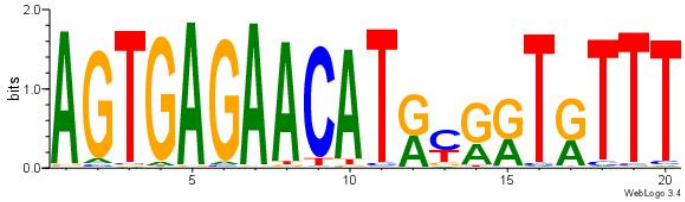

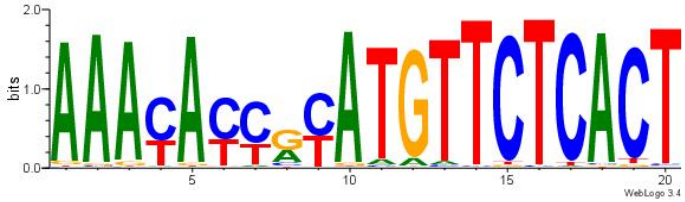

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.118393

Alignment:
GCAGCAMTATTCACAATAG
ACACACAYACACACACACA

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

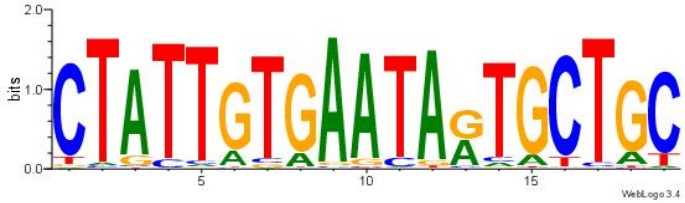

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

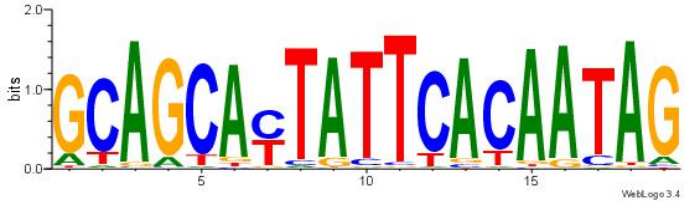

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.118767

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-ACACACAYACACACACACA
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

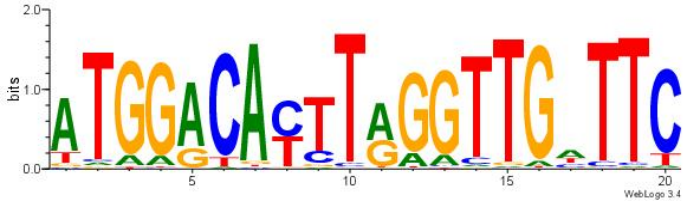

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

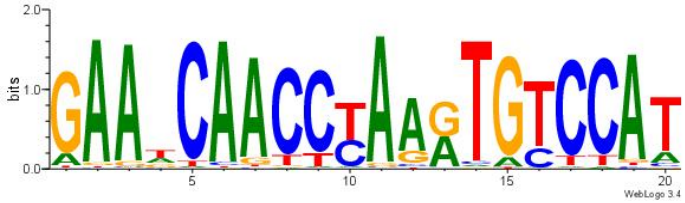

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.118848

Alignment:
MGTCTMKCTCTGTKGCCCAG
TGTGTGTGTGTKTGTGTGT-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

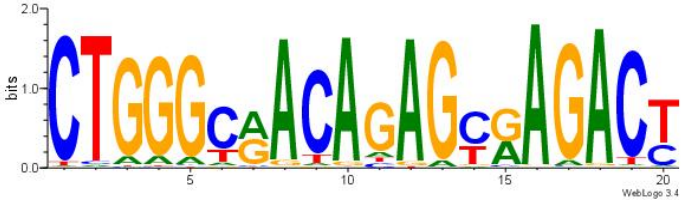

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

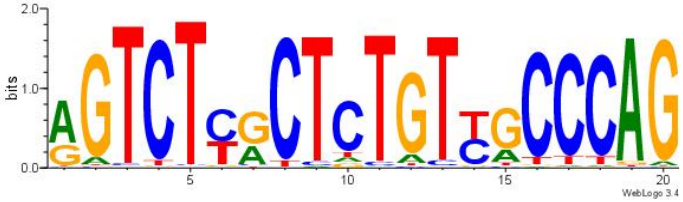

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.119414

Alignment:
GTGCCAGGCACTGTKCTARG
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

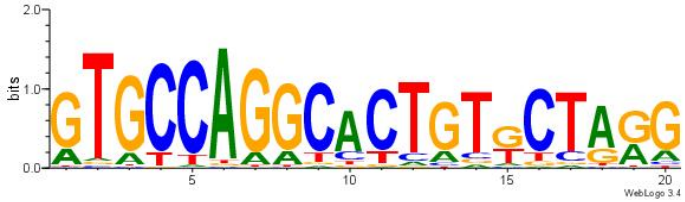

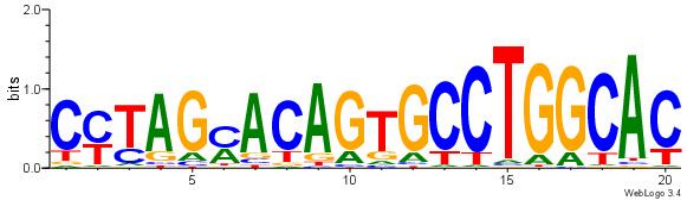

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.119537

Alignment:

```
KKCACCTTGATCTTGGACTT
TGTGTGTGTGTKTGTGTGT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

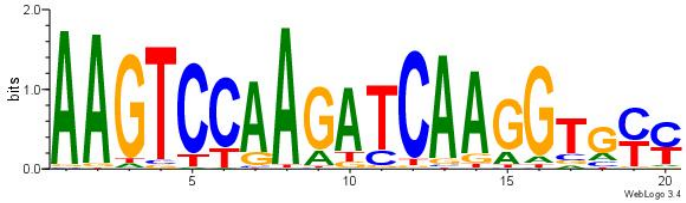

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

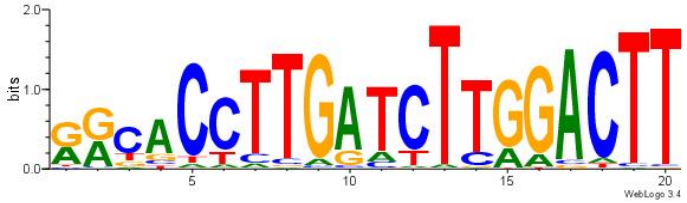

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.119975

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

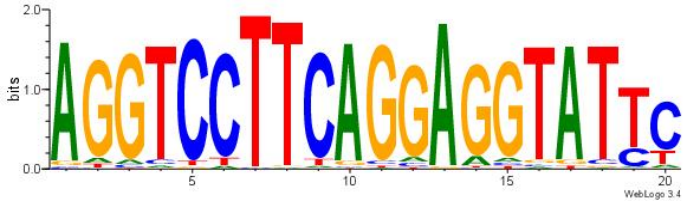

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

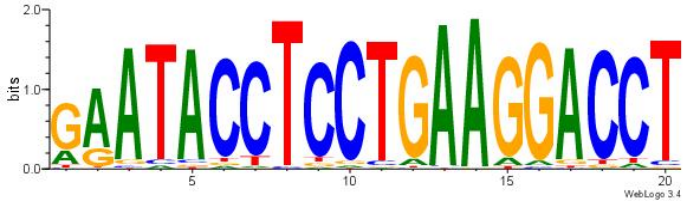

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.120391

Alignment:
GCCACCAMGCCMKGCTAAT
ACACACAYACACACACACA

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

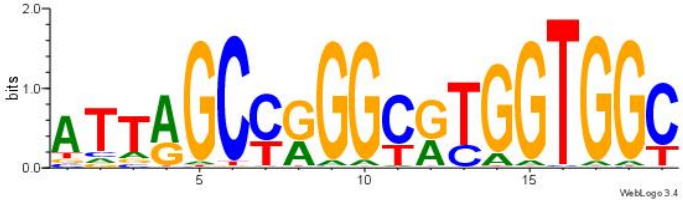

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

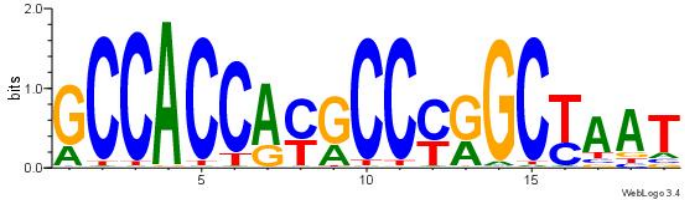

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.121176

Alignment:
CTGGGCTCCTGAGTCTGGTG
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

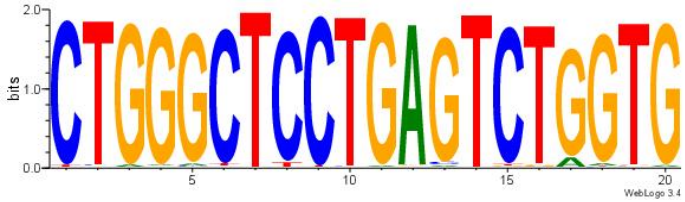

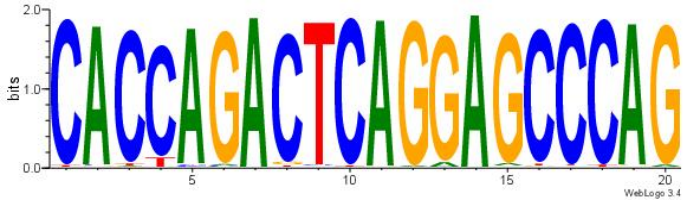

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.121904

Alignment:

```
AGGTTTGTTACATAGGTAWA
TGTGTGTGTGTKTGTGTGT-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

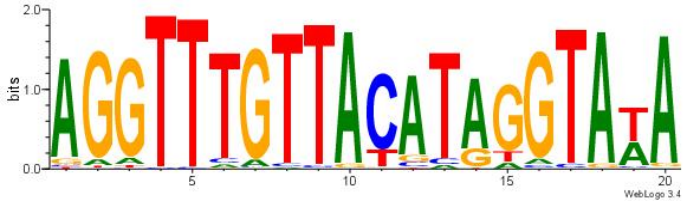

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

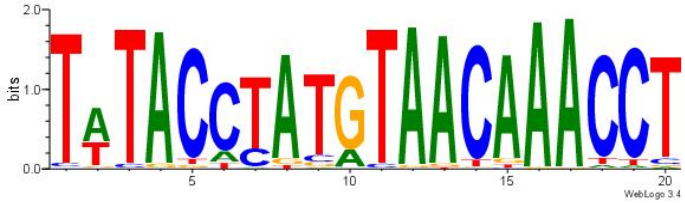

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.121963

Alignment:

```
CTGACTGGGAGACACCTCCC
-ACACACAYACACACACACA
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

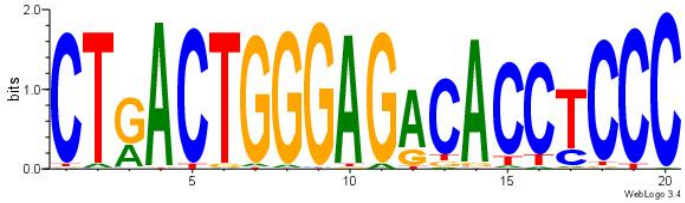

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

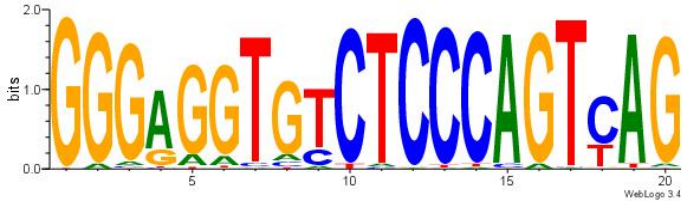

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.122141

Alignment:
AGGCTGTTTTACAGTTAAC
TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

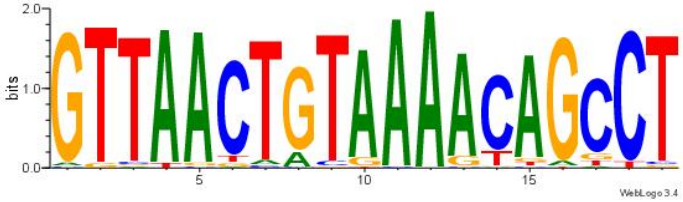

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

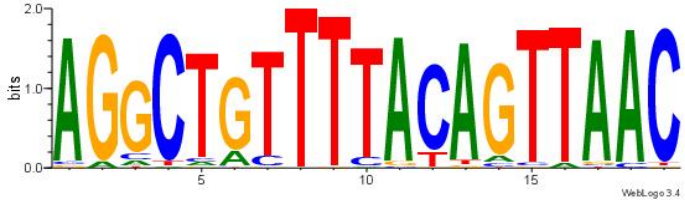

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.122397

Alignment:
AGGACTGAGGGTGCCYRGGG
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

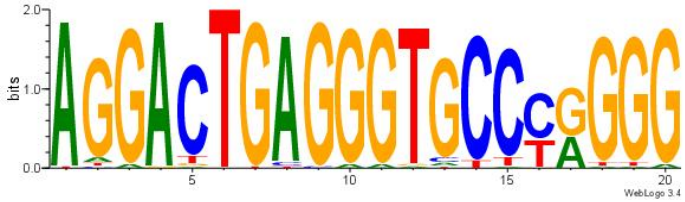

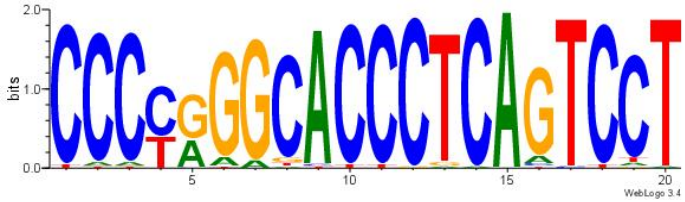

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.122488

Alignment:
ACATCMTCTGAAATCTAGG
ACACACAYACACACACACA

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

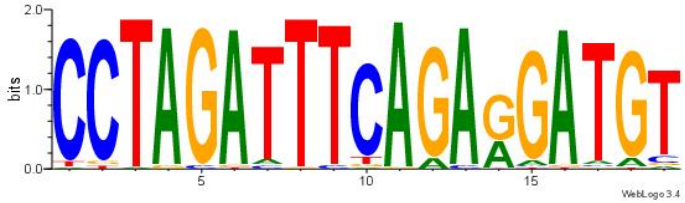

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

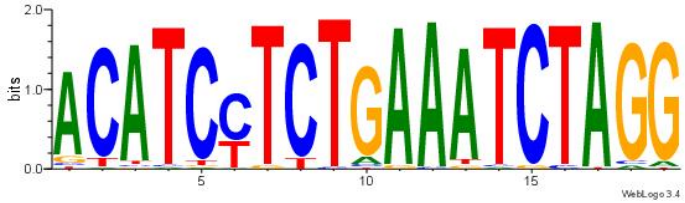

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.123814

Alignment:

```
TAAAAGACTACAWATTGGGT
-ACACACAYACACACACACA
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

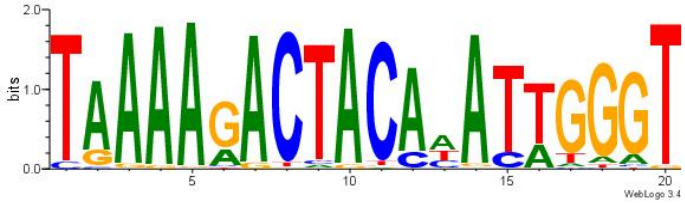

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

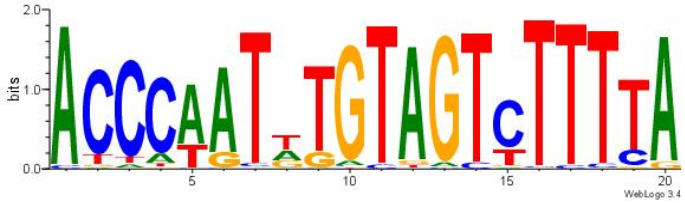

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.124394

Alignment:
TTCAMTCATGATTTGGCTCT
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

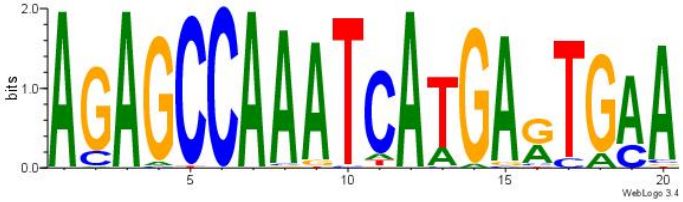

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

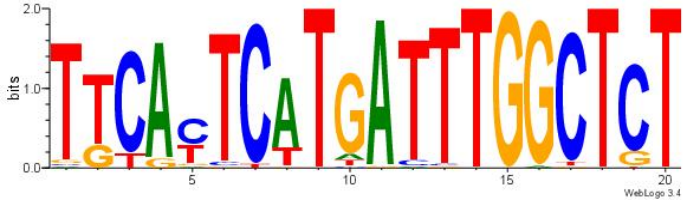

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.124471

Alignment:
TCKMGCCACTGCACTCCAGC
-ACACACAYACACACACACA

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

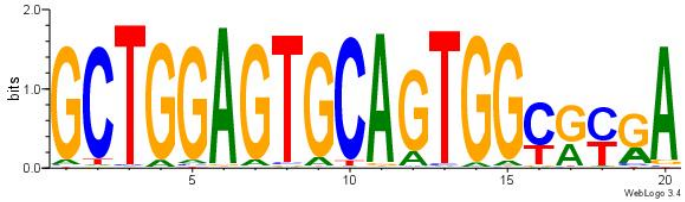

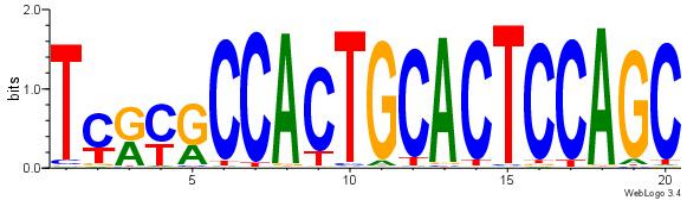

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.12459

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

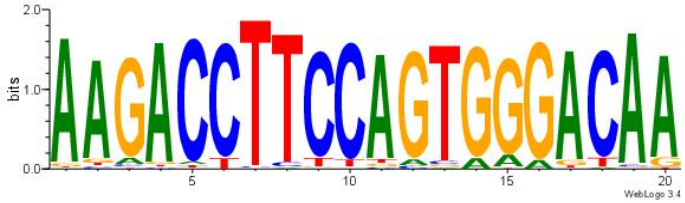

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

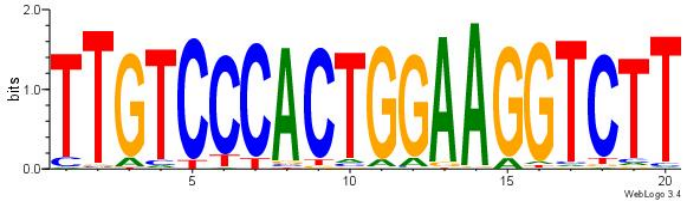

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.124834

Alignment:

```
GTTATTAATTGGCCTAATTT
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

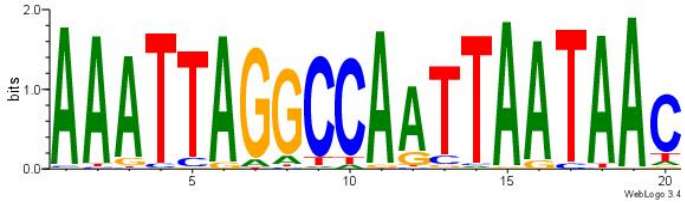

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.125303

Alignment:
ATTGATMKCCAGGGTTGATT
TGTGTGTGTGTKTGTGTGT-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

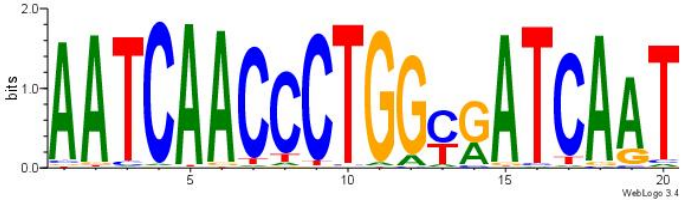

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

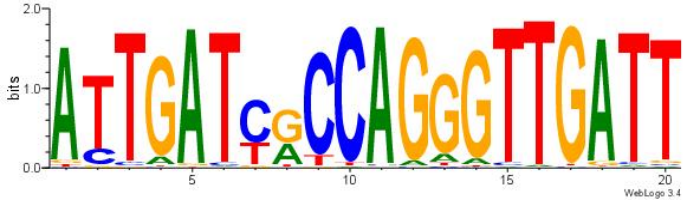

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.125635

Alignment:
TMGGGAGGCTGAGGCAGGAG
-TGTGTGTGTGTKTGTGTGT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

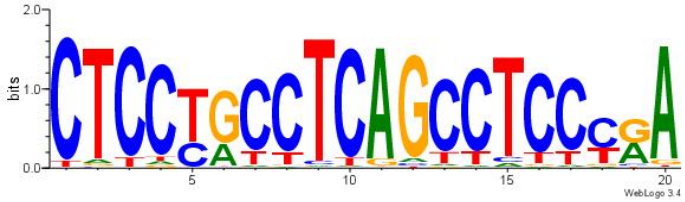

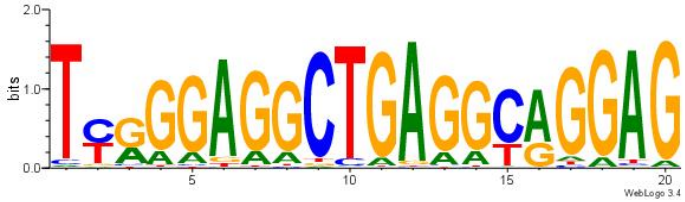

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.125728

Alignment:

```
CCCATGCAAGTCYRAAATCC
-ACACACAYACACACACACA
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

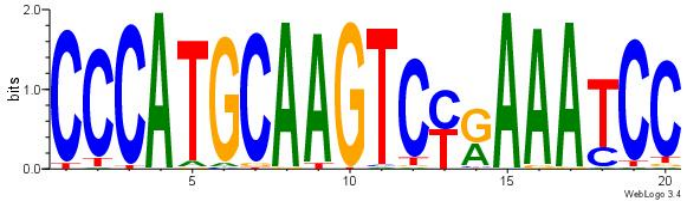

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

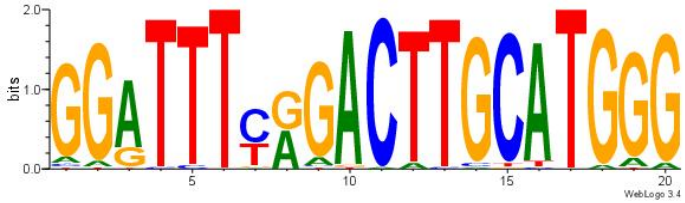

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.127113

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-TGTGTGTGTGTKTGTGTGT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

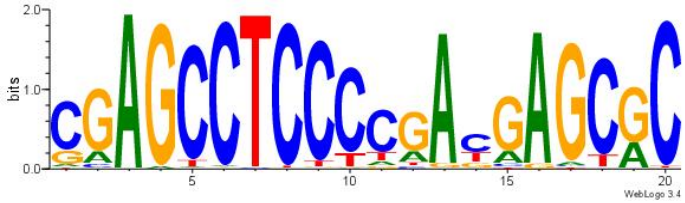

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

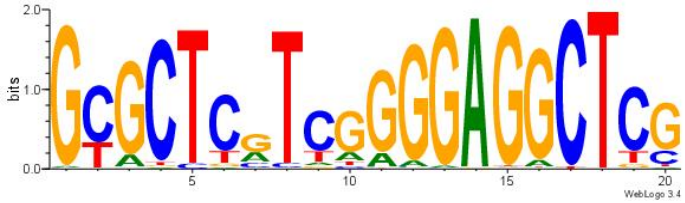

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.127187

Alignment:
ARCTCCTGKSCTCAAGKGAT
ACACACAYACACACACACA-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

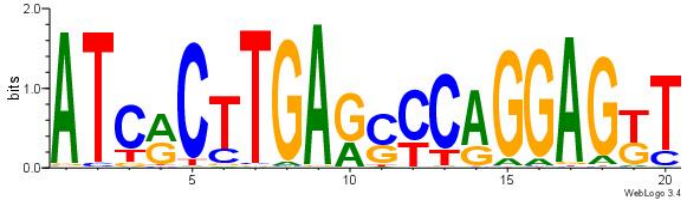

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

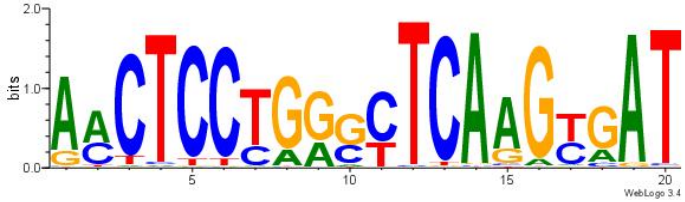

Dataset #: 1 Motif ID: 67 Motif name: Motif 67

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

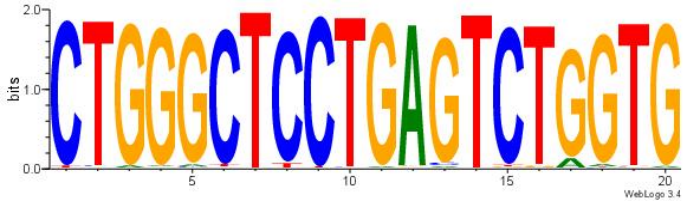

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

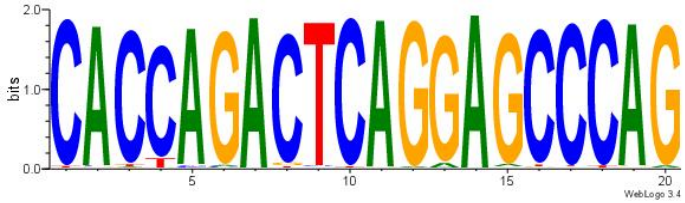

Best Matches for Motif ID 67 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.10051

Alignment:
TMGGGAGGCTGAGGCAGGAG
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

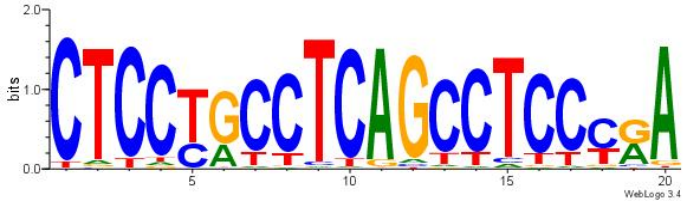

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

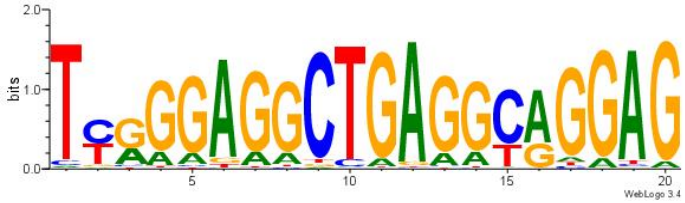

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.107414

Alignment:

CTGGGCRACAGAGYRAGACY
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

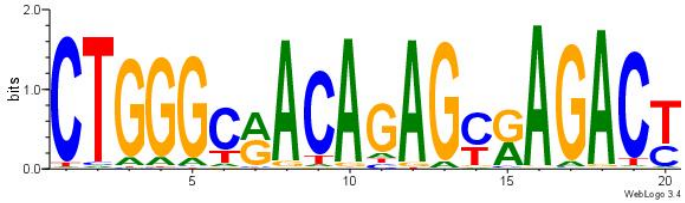

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

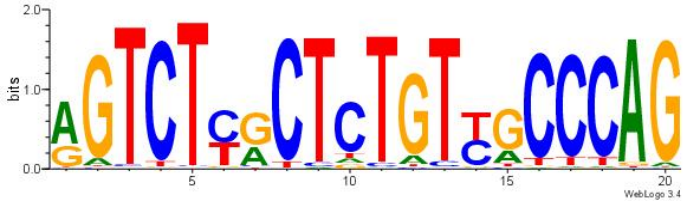

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116021

Alignment:
GGCACTGCTGGGGGACCCAG
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

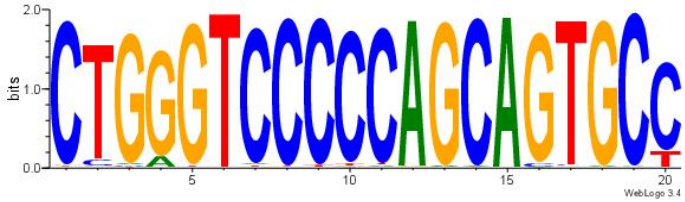

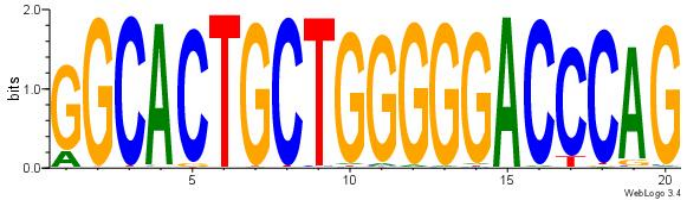

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123442

Alignment:

```
ATGGACAYTTRGGTTGHTTC
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

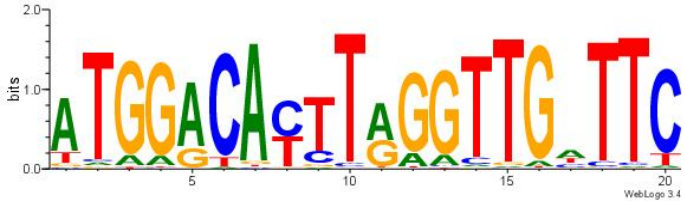

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

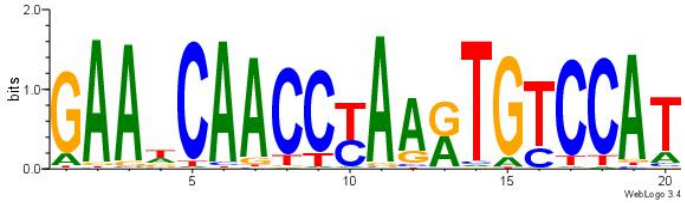

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126703

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

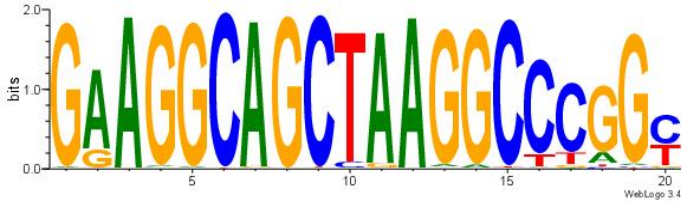

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

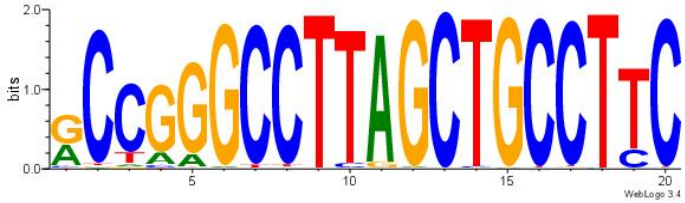

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133508

Alignment:
CACCAGGAGATTATATCCCR
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

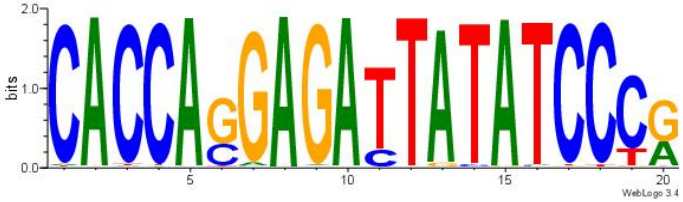

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

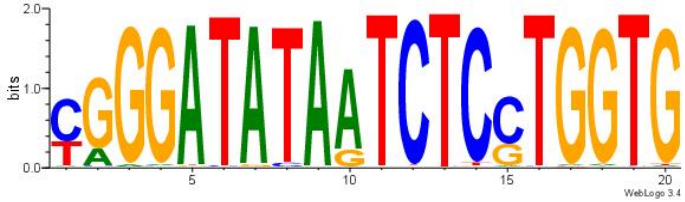

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.136168

Alignment:
AACAACASACACTGGGGCCT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

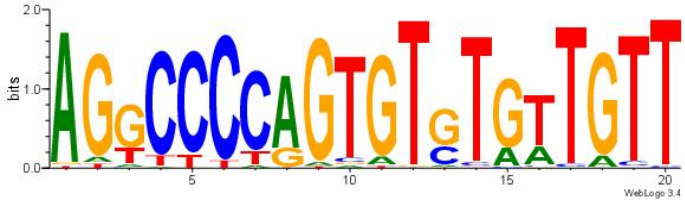

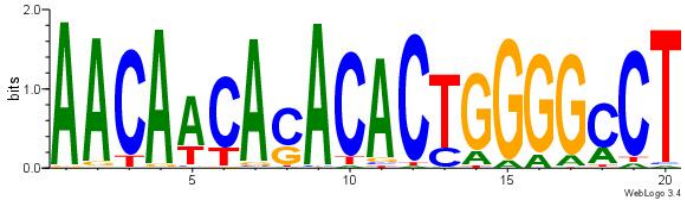

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137833

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

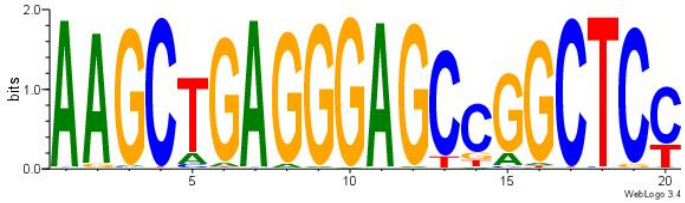

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

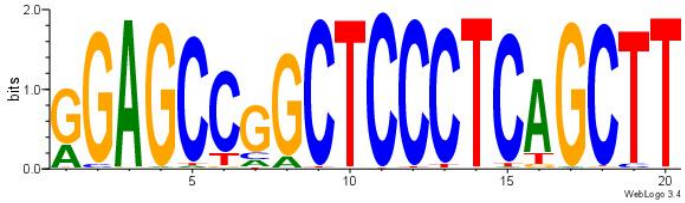

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139146

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

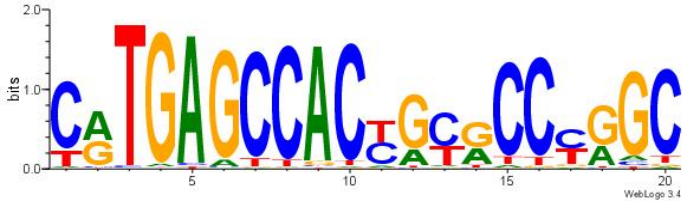

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

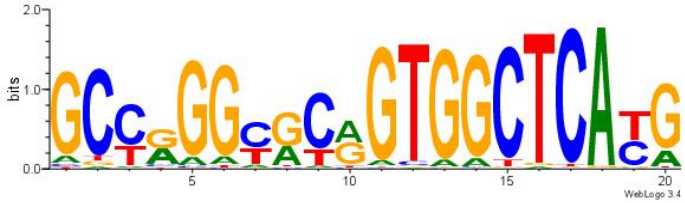

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139668

Alignment:
TACCTGAGACTGGGTAATTT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

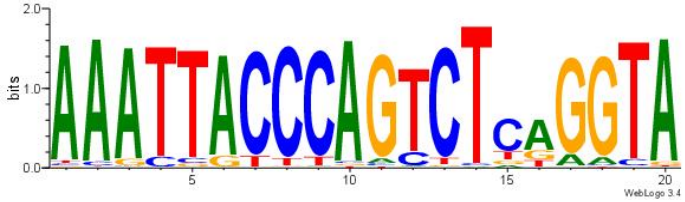

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

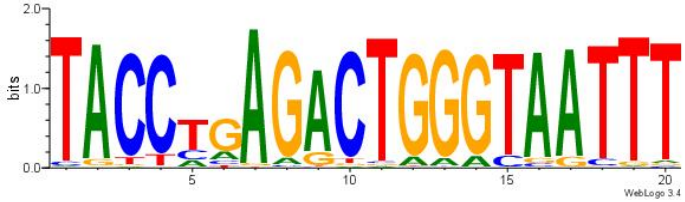

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.139908

Alignment:
CTGGCCCTCAATGGTTAAAC
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

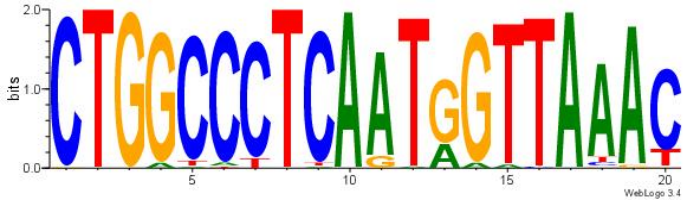

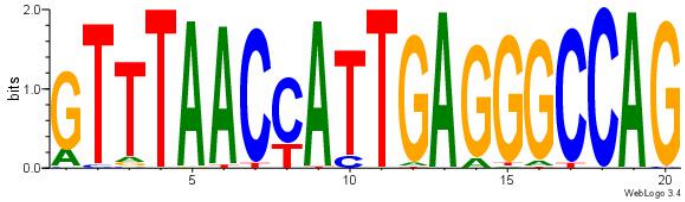

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140952

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

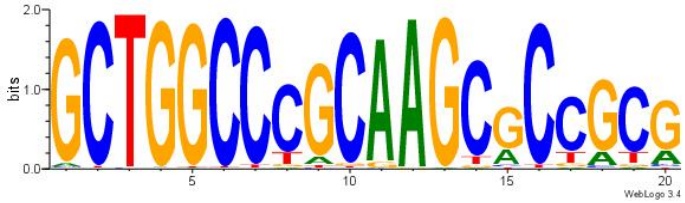

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

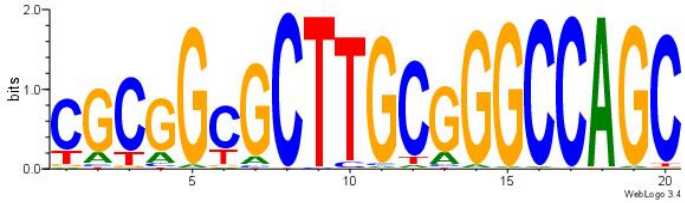

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142415

Alignment:

```
CAACATGGATGRARCTGGAG
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

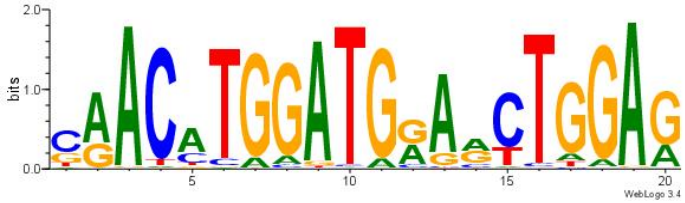

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

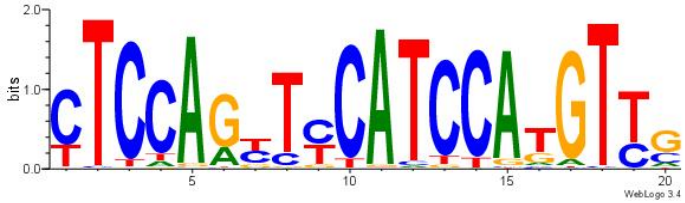

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.143088

Alignment:
CTAGACATAAAGGTTCTCCA
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

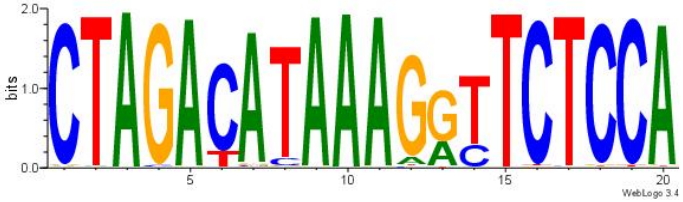

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

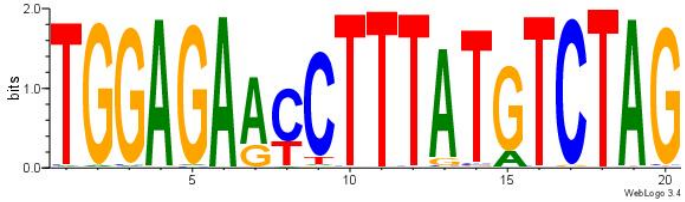

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144387

Alignment:
CCTGCCATTGCYSAGGCTTG
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

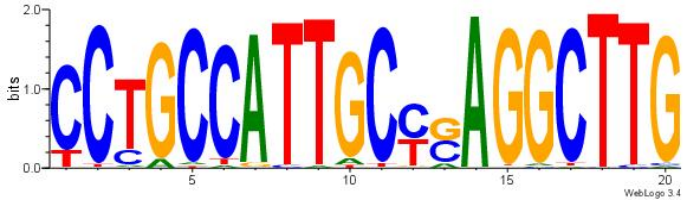

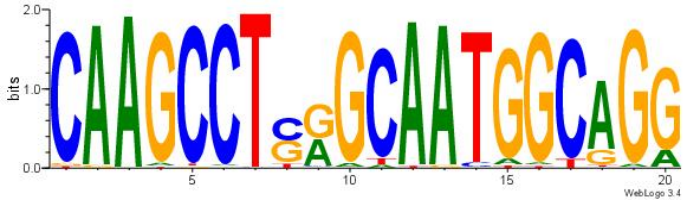

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145525

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

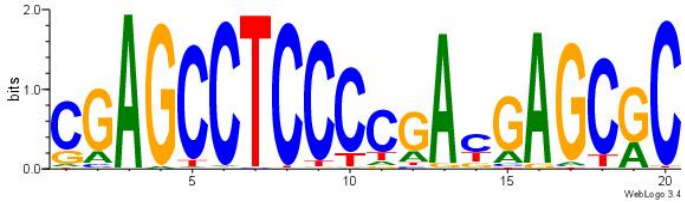

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

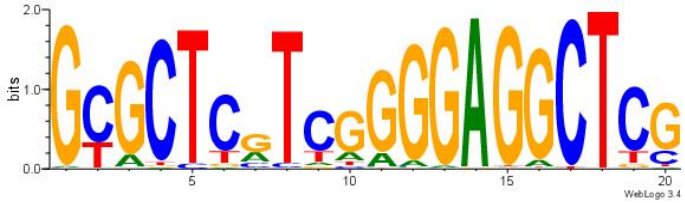

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146677

Alignment:

GGCAATGCCTCGCCCTGCTT
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

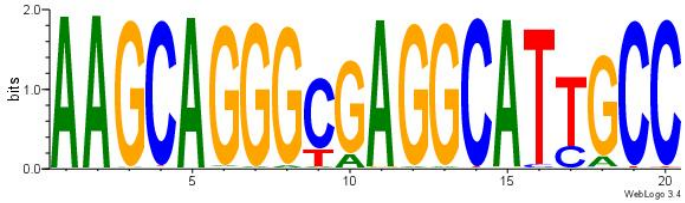

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

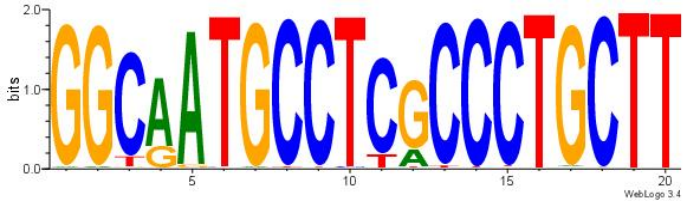

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149044

Alignment:
CAAGGGTATAYGAGTAGCTG
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

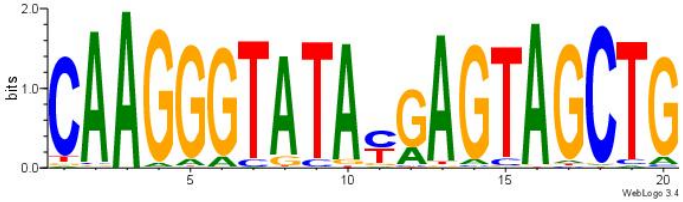

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

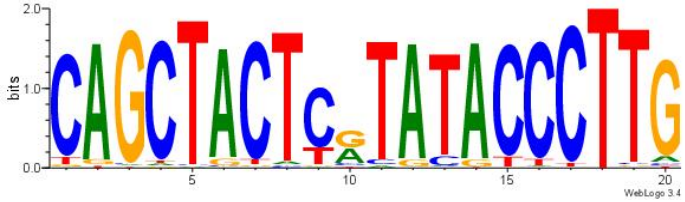

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149414

Alignment:
AGGACTGAGGGTGCCYRGGG
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

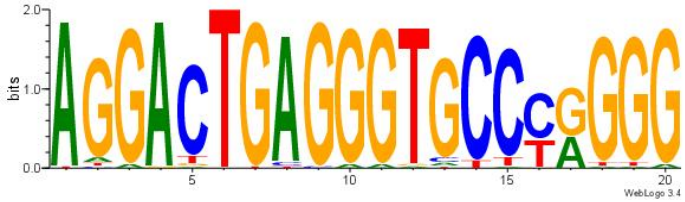

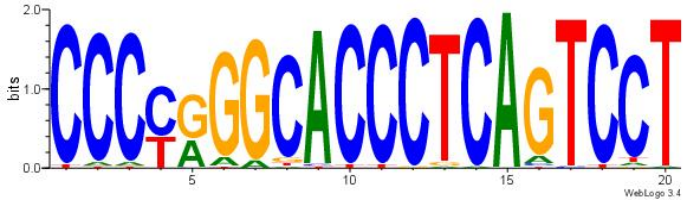

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149575

Alignment:

```
ACCCAATWTGTAGTCTTTTA
CTGGGCTCCTGAGTCTGGTG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

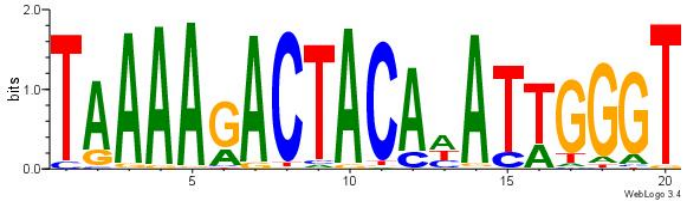

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

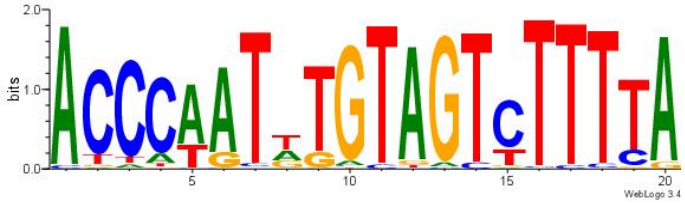

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150049

Alignment:
AAGACCTTCCAGTGGGACAA
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

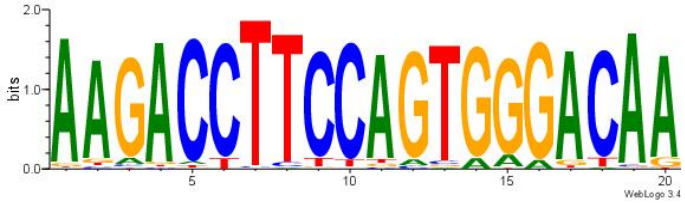

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

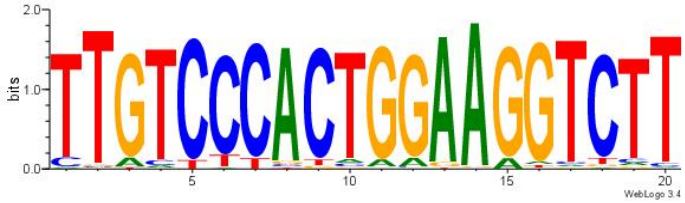

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150133

Alignment:
AGCTGTGAGAAGAGGGCCAC
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

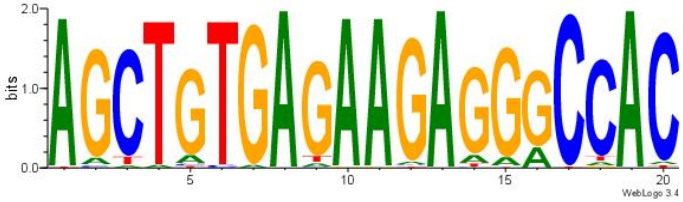

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

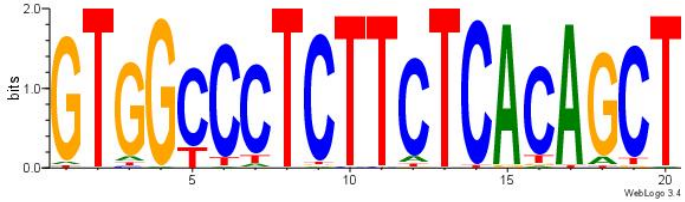

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150434

Alignment:
AATCAACCCTGGYRATCAAT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

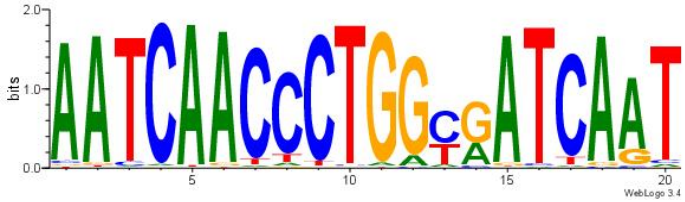

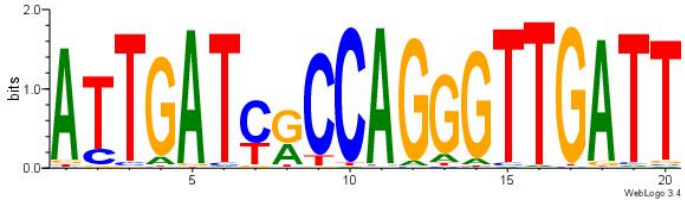

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151678

Alignment:
GAATACCTCCTGAAGGACCT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

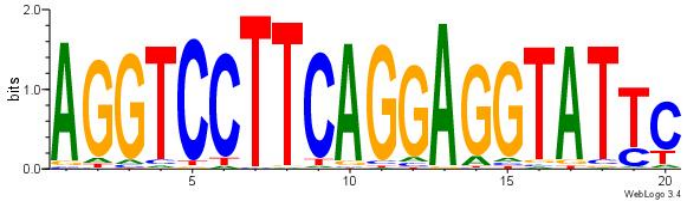

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

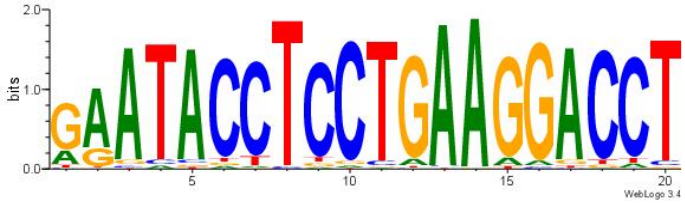

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151826

Alignment:
GACAGGAGATTAACACTGAG
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

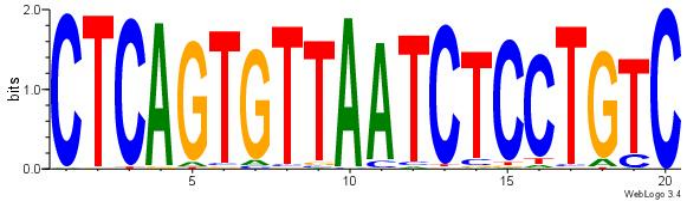

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

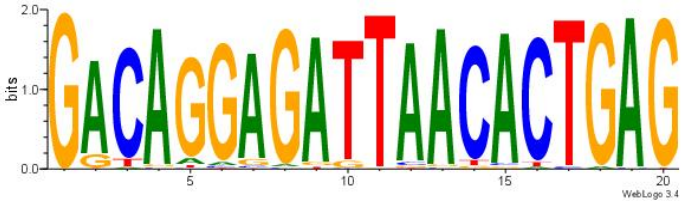

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.151979

Alignment:
GGGCTCCCACAGTGCAGCGG
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

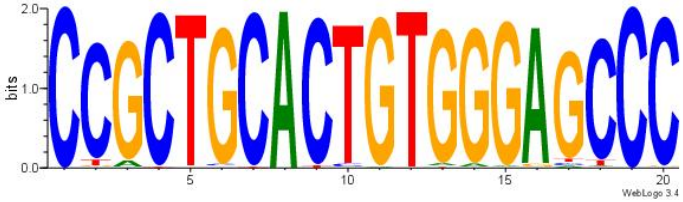

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

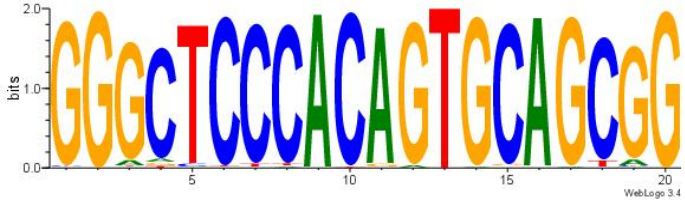

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.153692

Alignment:
TTGGTAGGATCCGTGATGCC
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

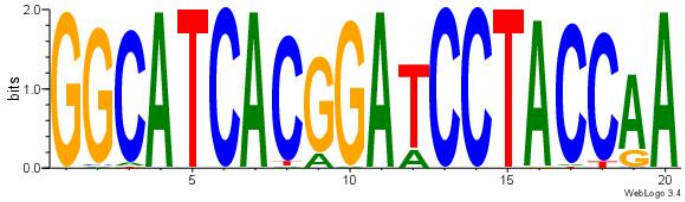

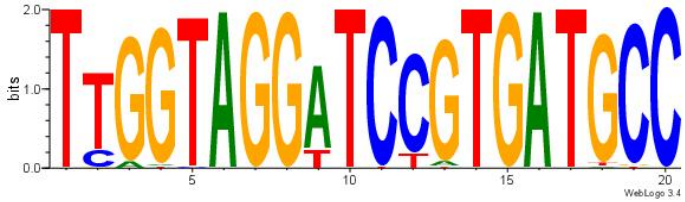

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153805

Alignment:

```
AGCTCCCAGCGTGAGCGACG
CACCAGACTCAGGAGCCCAG
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

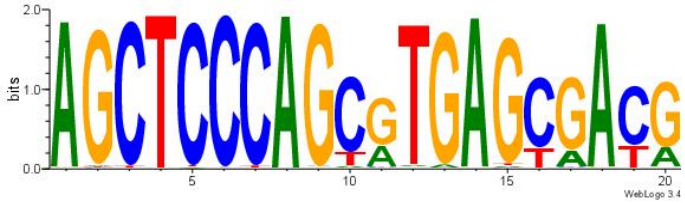

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

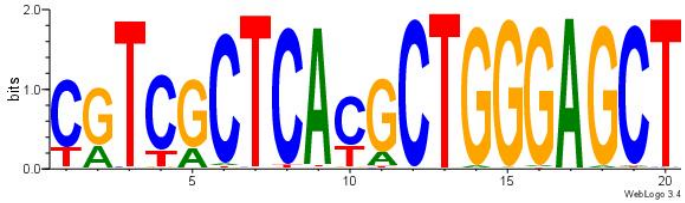

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154046

Alignment:

```
VMATTTAKTGAGCACCTACT
CACCAGACTCAGGAGCCCAG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

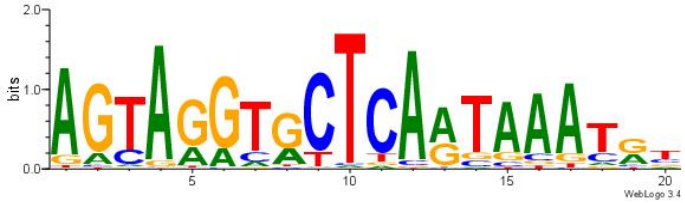

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

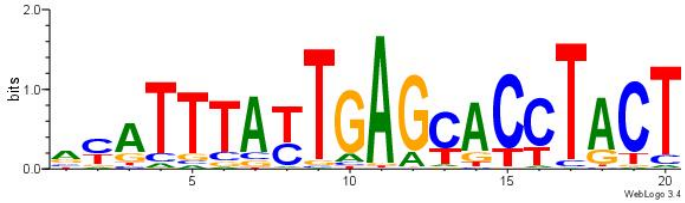

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155153

Alignment:
CCCGAAGCTGCRYRCTCGGT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

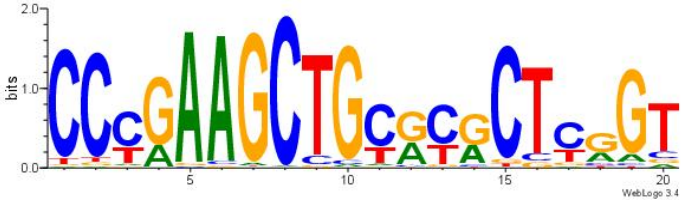

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

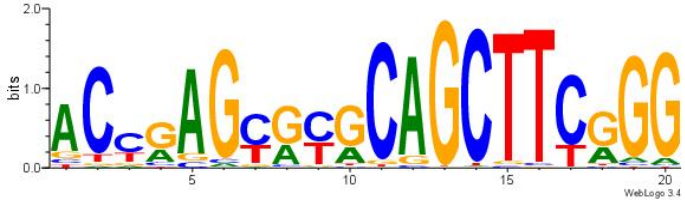

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155941

Alignment:
ATGATCCAGCAATYCCACTH
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

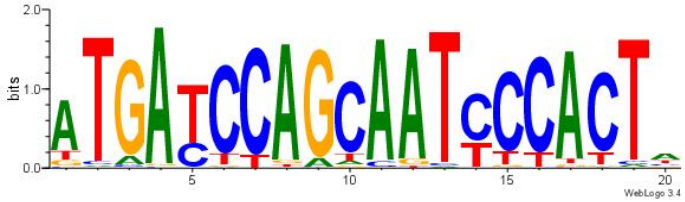

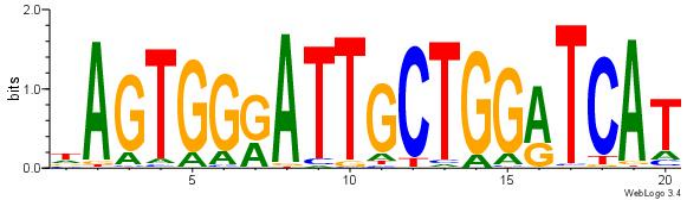

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156402

Alignment:

```
AGAAATCGAGCRCAGCGCCG
CACCAGACTCAGGAGCCCAG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

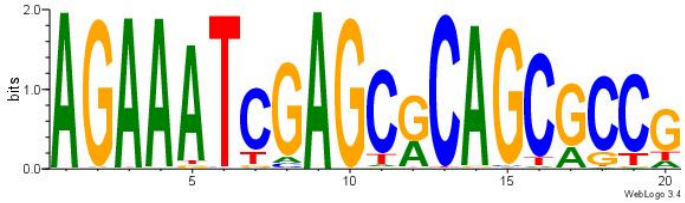

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

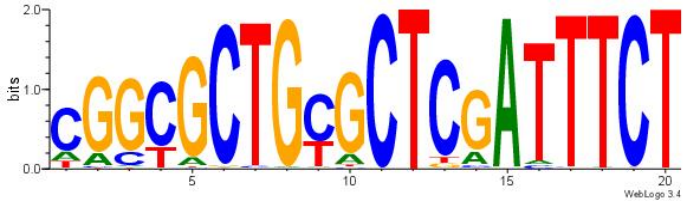

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159775

Alignment:

```
CAGGTGGTKTTTGGTTACAT
CACCAGACTCAGGAGCCCAG
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

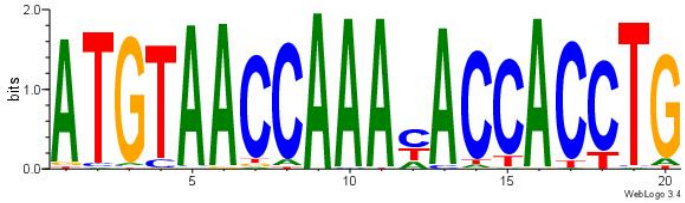

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

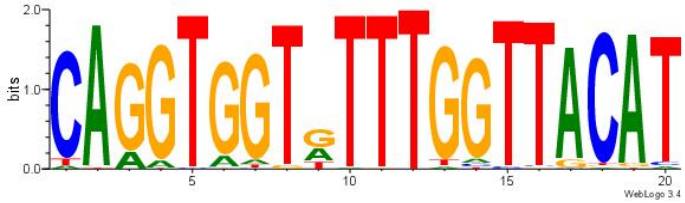

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160409

Alignment:
GCCKCCCCGTCCGGGAGGGA
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

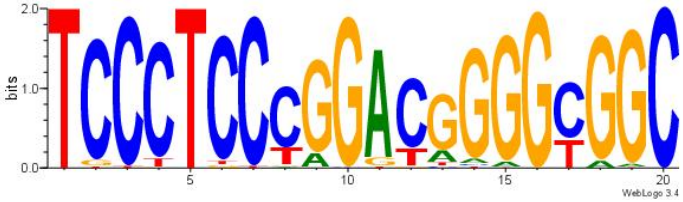

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

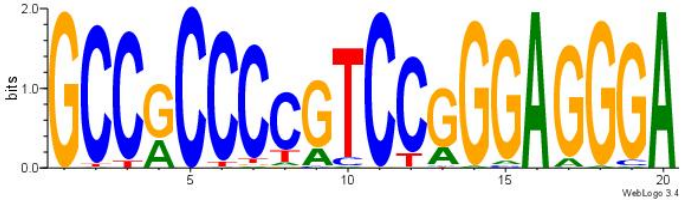

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.160716

Alignment:
ACTGTCTTCCACCTCCACAT
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

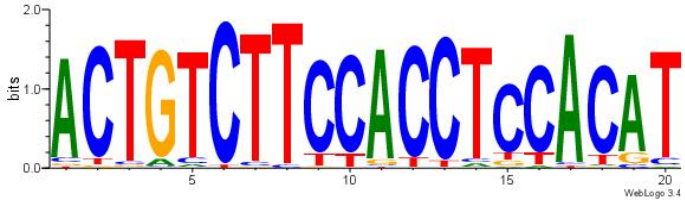

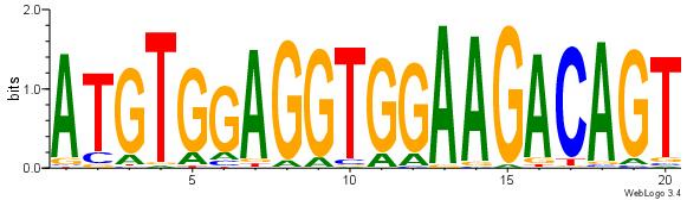

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161415

Alignment:
CMTAGYACAGTGCCTGGCAC
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

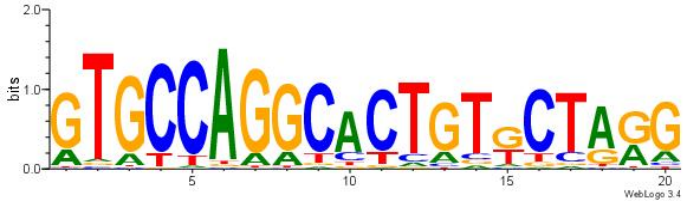

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

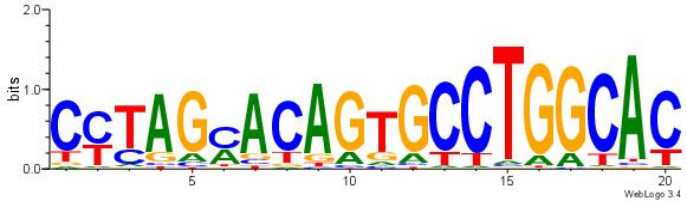

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161805

Alignment:

GACTGGCAGGCAGCTCCACC
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

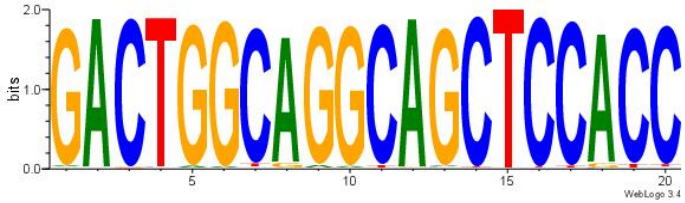

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

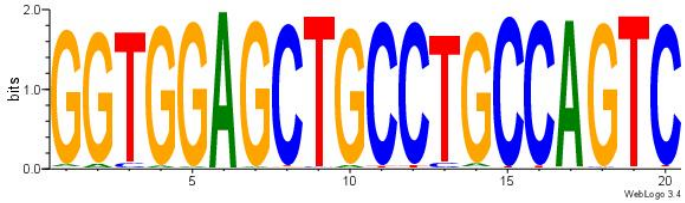

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.162002

Alignment:
TTTYTWTTTTTTYTWGAGAC
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

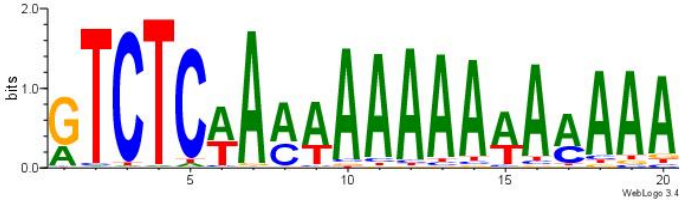

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

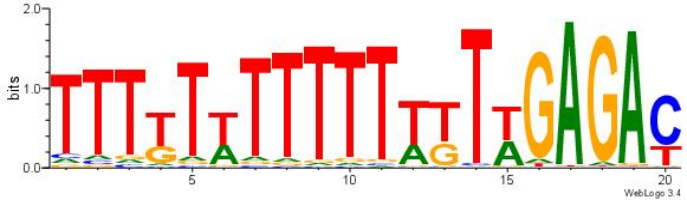

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162033

Alignment:
ATGGCTGAATAKTATTCCAT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

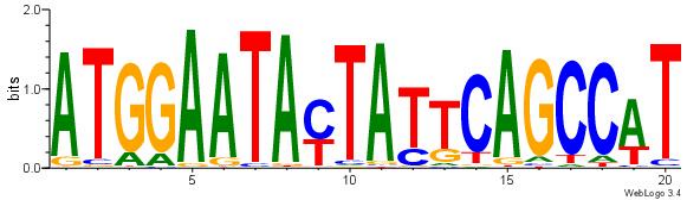

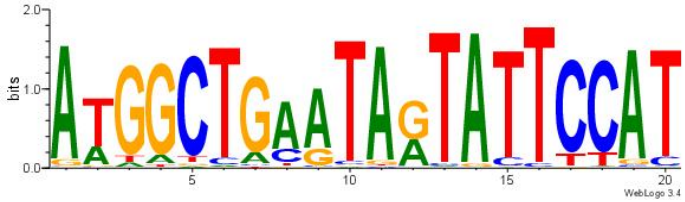

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162065

Alignment:
CTTGCCCAAGGTCACACAGC
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

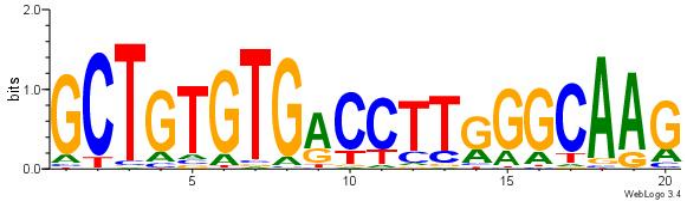

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

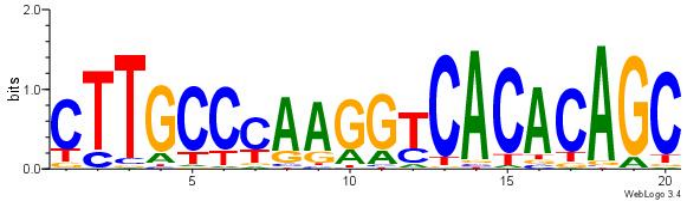

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162166

Alignment:
TCTCTCTCTCTCTCTCTCTC
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

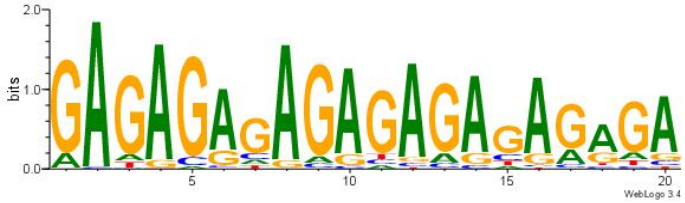

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

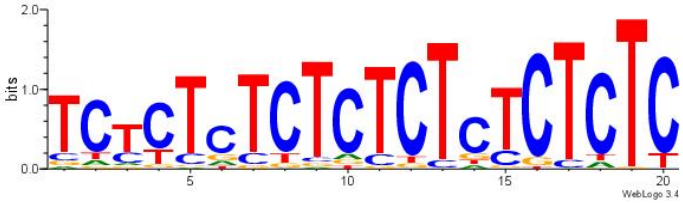

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.164386

Alignment:
AGTGACCCGATTTTCCAGGT
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

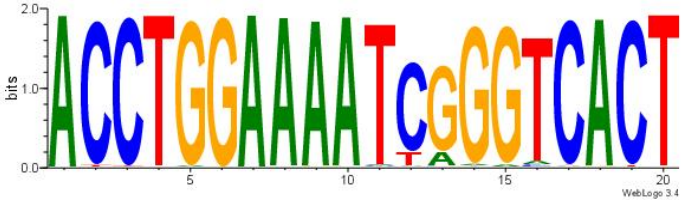

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

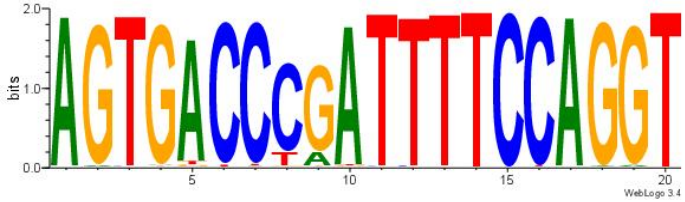

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164544

Alignment:
AWTKKTGGTTKCCAGKGGCT
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

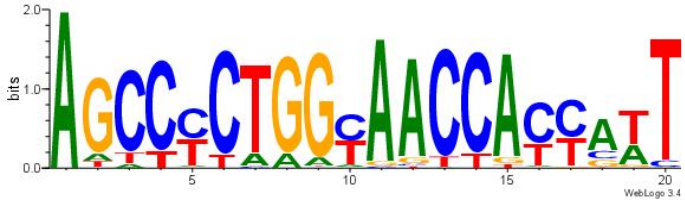

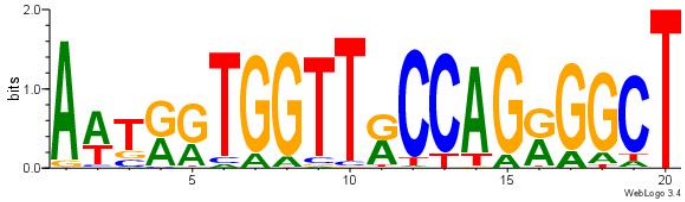

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164742

Alignment:

```
GGTTCATCTCACTAGGGAGT
CACCAGACTCAGGAGCCCAG
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

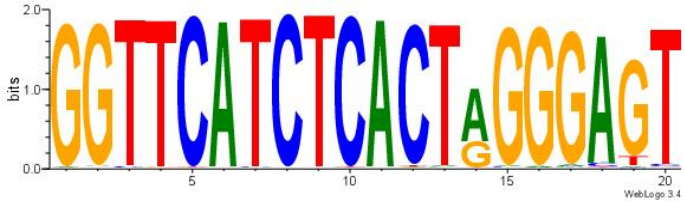

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

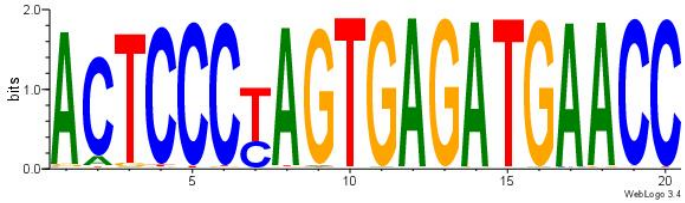

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166201

Alignment:

GGGAGGTGTCTCCCAGTCAG

CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

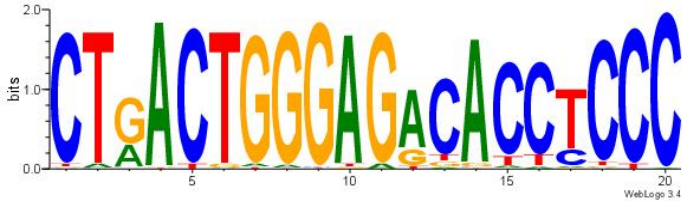

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

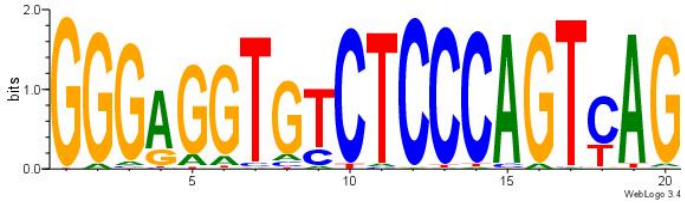

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.167157

Alignment:
TCKMGCCACTGCACTCCAGC
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

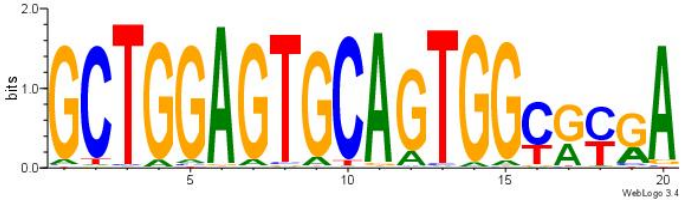

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

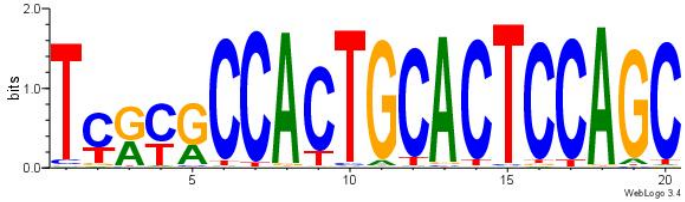

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.167845

Alignment:
ATAGGAATGCTTGTGATTTT
CTGGGCTCCTGAGTCTGGTG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

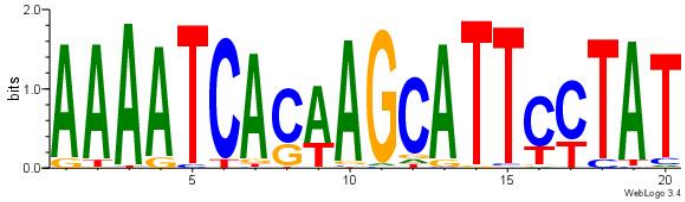

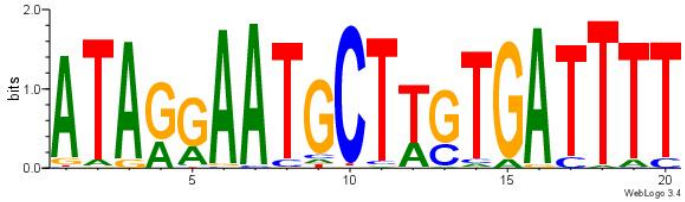

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16799

Alignment:
TTCAMTCATGATTTGGCTCT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

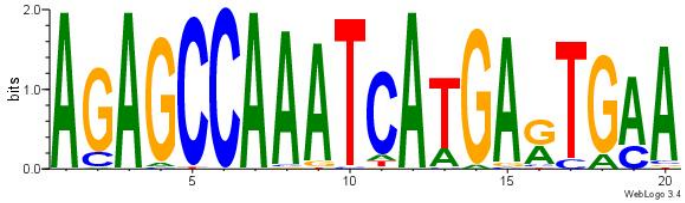

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

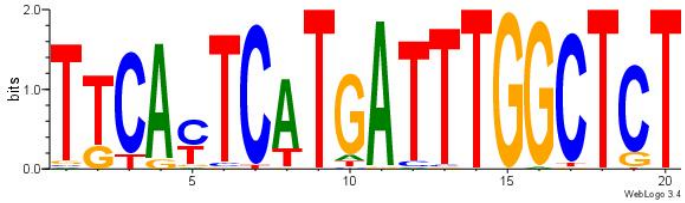

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.170584

Alignment:

```
TCCAAATGGGAGAAATTGGC
CACCAGACTCAGGAGCCCAG
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

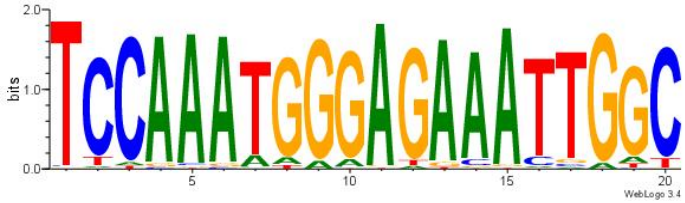

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

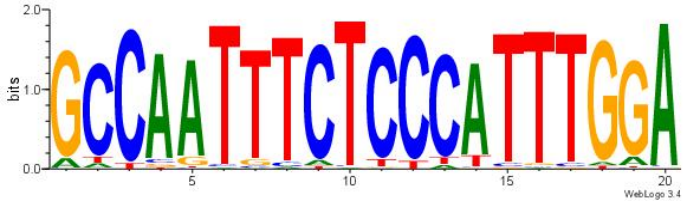

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.170639

Alignment:
AAAMAMMKMATGTTCTCACT
CACCAGACTCAGGAGCCCAG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

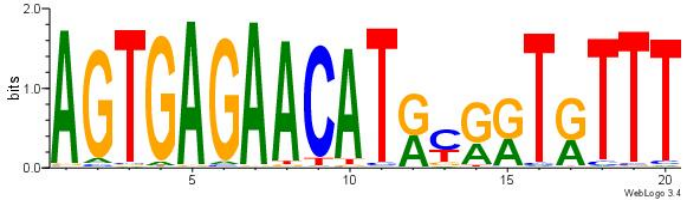

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

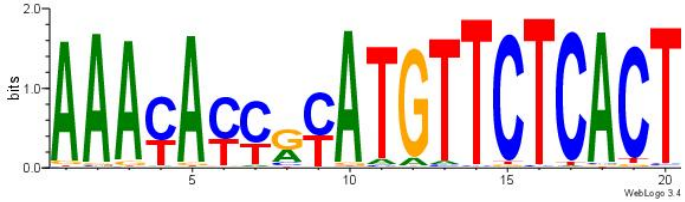

Dataset #: 1 Motif ID: 68 Motif name: Motif 68

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

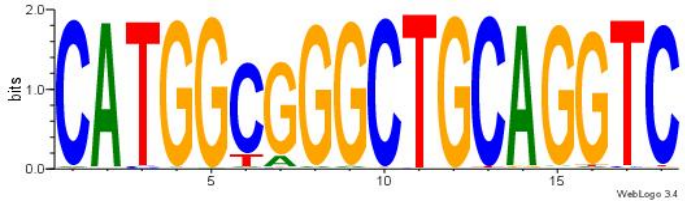

Reverse complement motif Consensus sequence:
GACCTGCAGCCCGCCATG

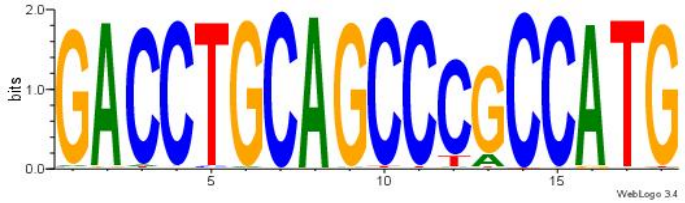

Best Matches for Motif ID 68 (Highest to Lowest)

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.102941

Alignment:

```
GACTGGCAGGCAGCTCCACC
-CATGGCGGGCTGCAGGTC-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

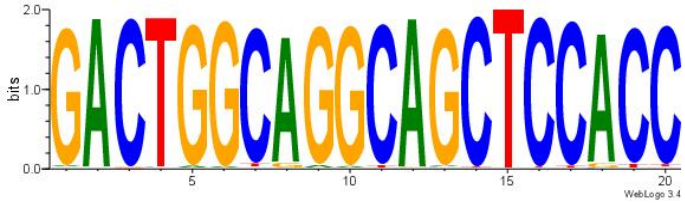

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

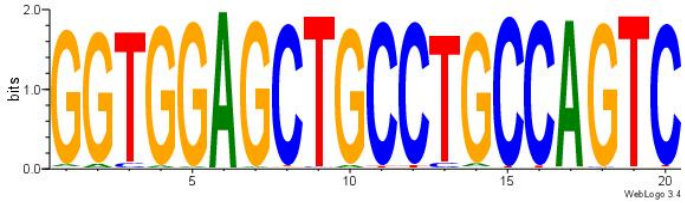

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.111785

Alignment:

AGCCCCGGTTCCCGCYCGC
-GACCTGCAGCCCGCCATG

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

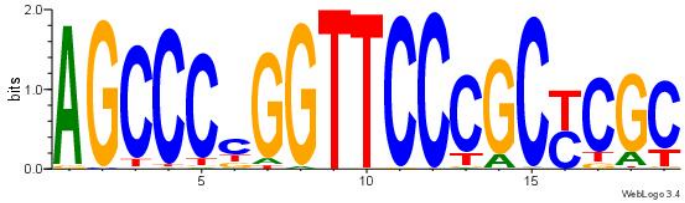

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

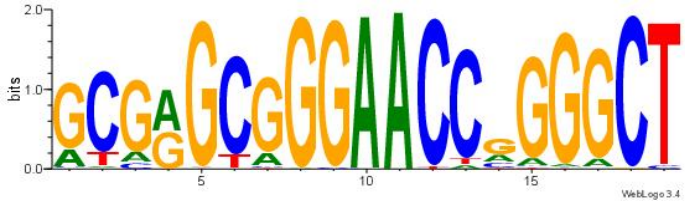

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.116332

Alignment:
CATTCTGGGGTCTGGAGGAY
--CATGGCGGGCTGCAGGTC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

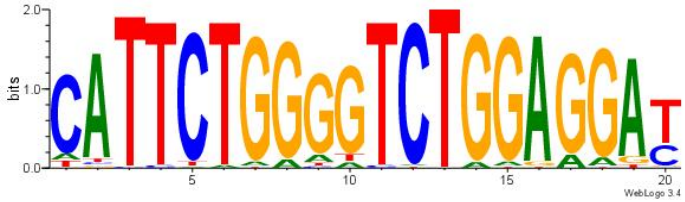

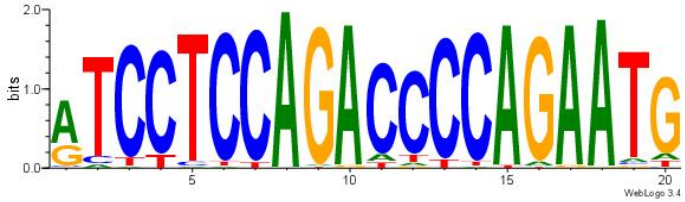

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.116432

Alignment:

```
CTTGGGTGGTCGATGGGAC
-CATGGCGGGCTGCAGGTC
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

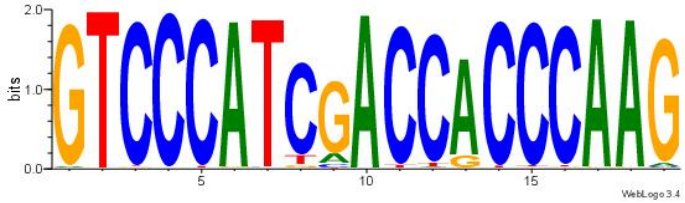

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

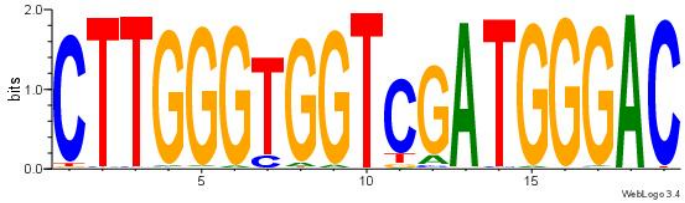

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.116568

Alignment:

```
CCCATGCAAGTCYRAAATCC
--CATGGCGGGCTGCAGGTC
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

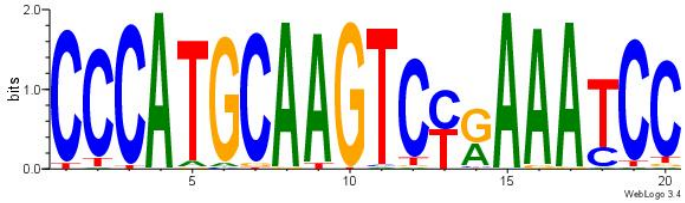

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

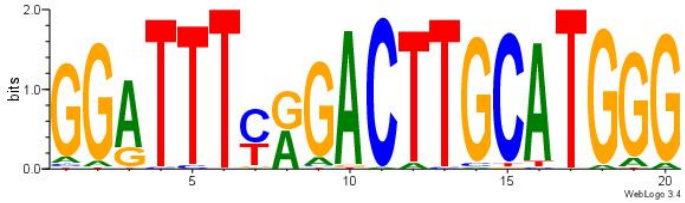

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.117844

Alignment:
ATCTGACAGGAGGYRGAGCT
-CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

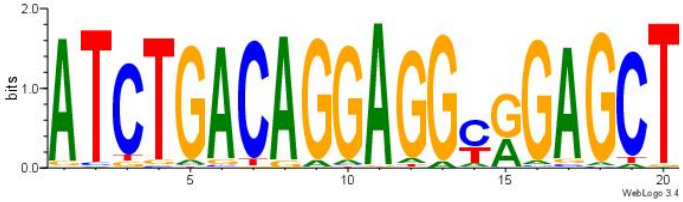

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

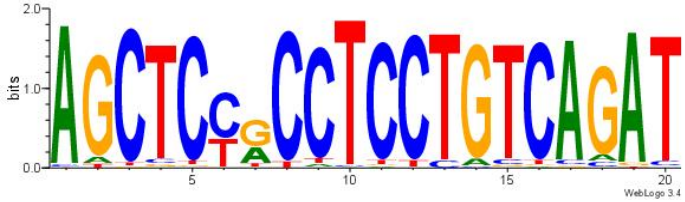

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.118357

Alignment:
CATTTCCAWCTGAGGTAC
CATGGCGGGCTGCAGGTC

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

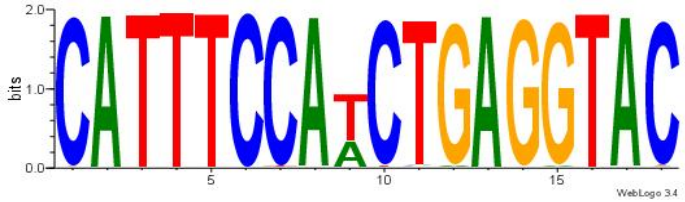

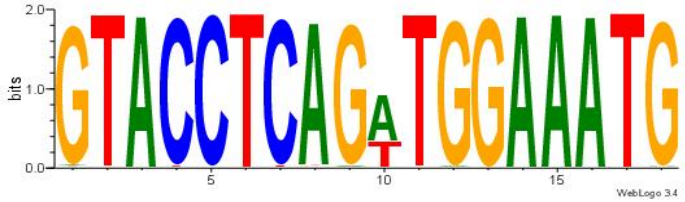

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.119282

Alignment:

```
TCKMGCCACTGCACTCCAGC
--GACCTGCAGCCCGCCATG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

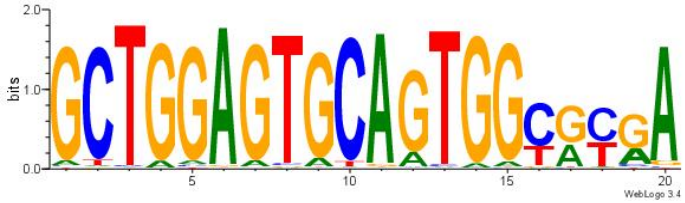

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

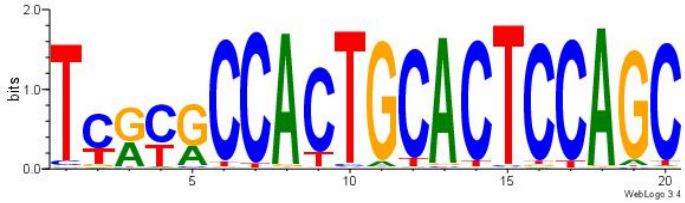

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.119683

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

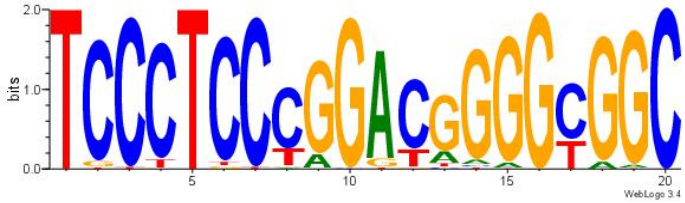

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

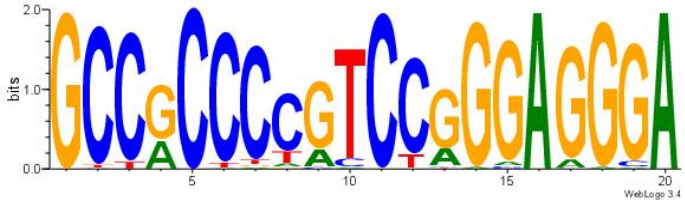

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.120708

Alignment:
GCACATGTAYCCYAGAACTT
-GACCTGCAGCCCGCCATG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

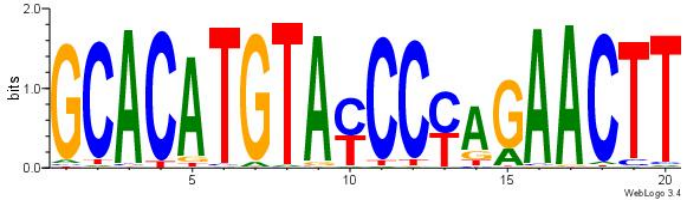

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

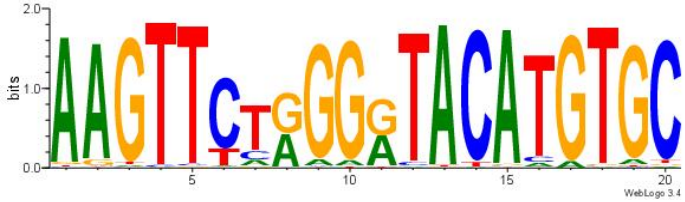

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.121611

Alignment:
GAATACCTCCTGAAGGACCT
CATGGCGGGCTGCAGGTC--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

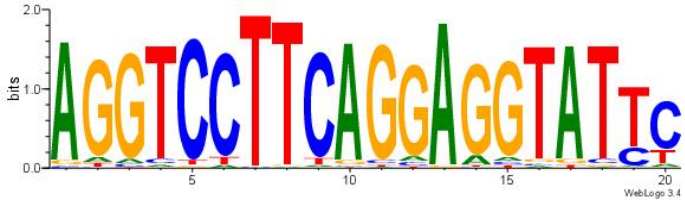

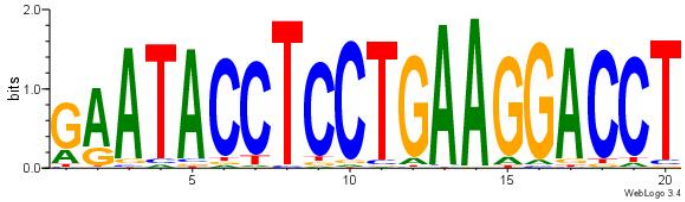

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.12266

Alignment:

```
AGACAGTGGGYGCAGGHCA
CATGGCGGGCTGCAGGTC-
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

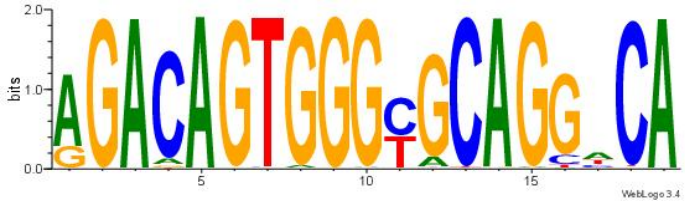

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

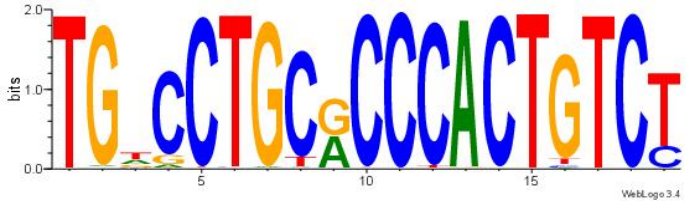

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.124454

Alignment:

```
GCTTAGCACCYGGGCCAGC
GACCTGCAGCCCGCCATG-
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

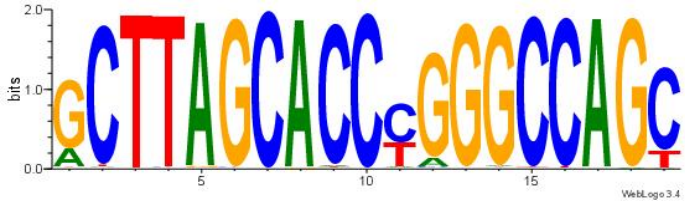

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

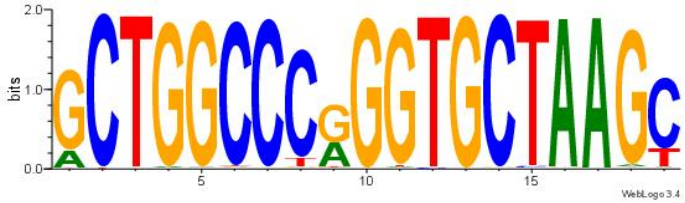

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.125715

Alignment:
AWTKKTGGTTKCCAGKGGCT
CATGGCGGGCTGCAGGTC--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

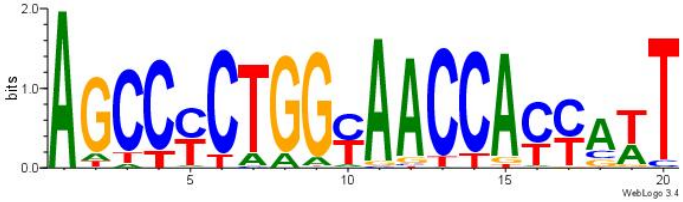

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

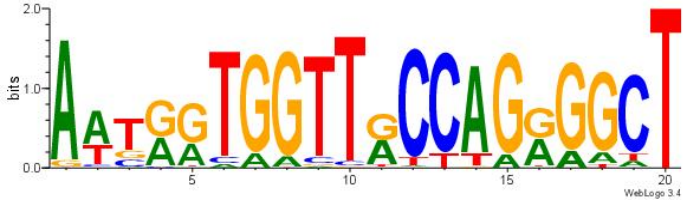

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.128388

Alignment:
CMTAGYACAGTGCCTGGCAC
CATGGCGGGCTGCAGGTC--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

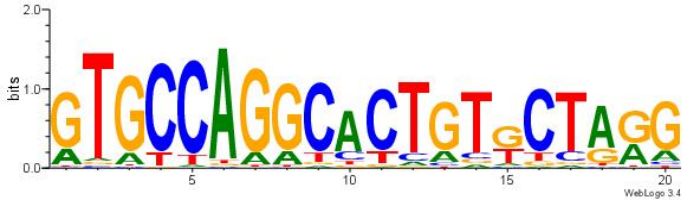

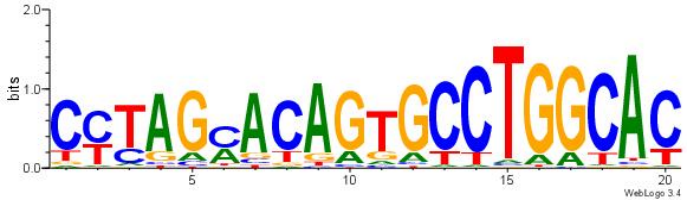

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.129118

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-CATGGCGGGCTGCAGGTC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

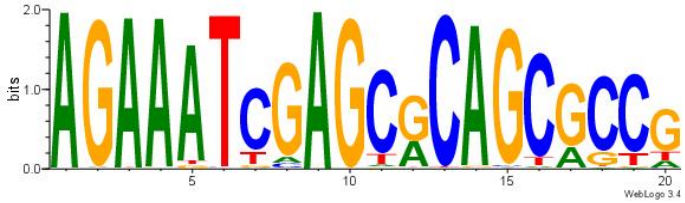

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

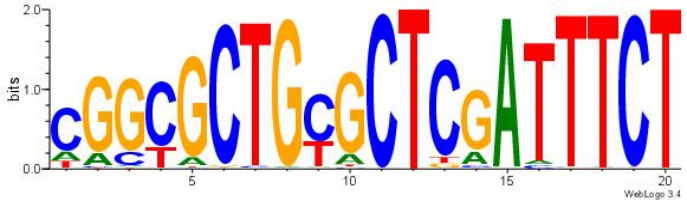

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.129344

Alignment:

```
CAAGCGCCAGCTCATGTC
CATGGCGGGCTGCAGGTC
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

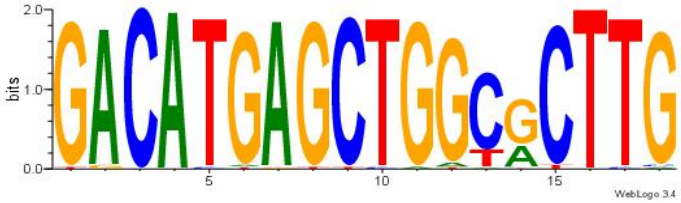

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

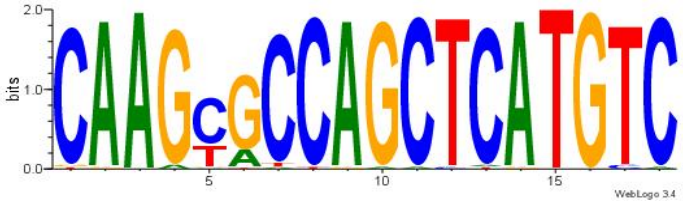

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.129945

Alignment:
GCCAGGCAGAGRGKCTCCT
-GACCTGCAGCCCGCCATG

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

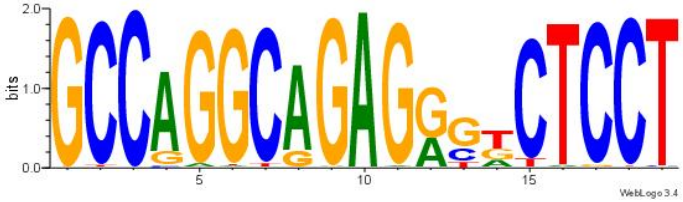

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

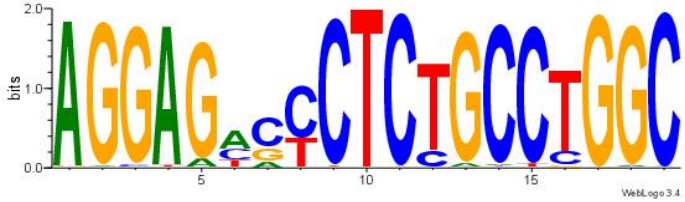

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.130197

Alignment:
GGCACTGCTGGGGGACCCAG
-GACCTGCAGCCCGCCATG-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

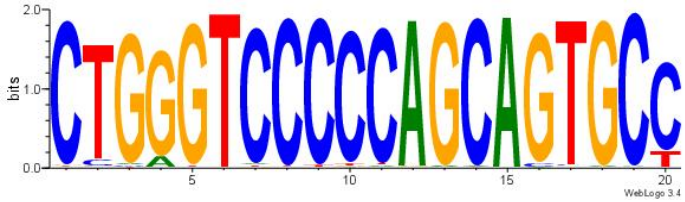

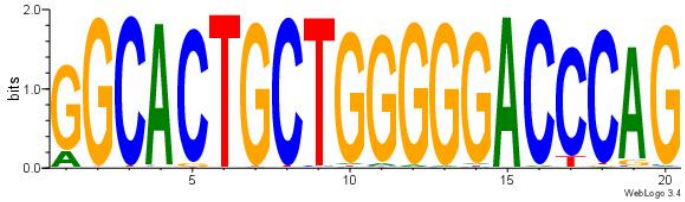

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.130472

Alignment:

```
CCCMKGGCACCCTCAGTCCT
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

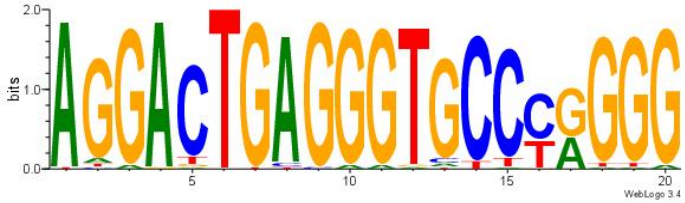

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

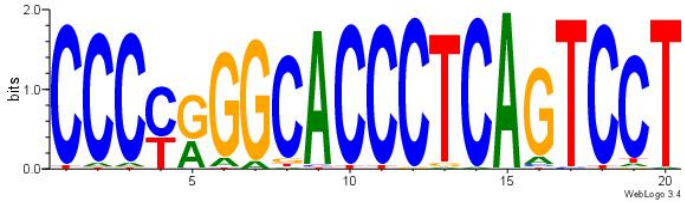

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.130855

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--GACCTGCAGCCCGCCATG
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

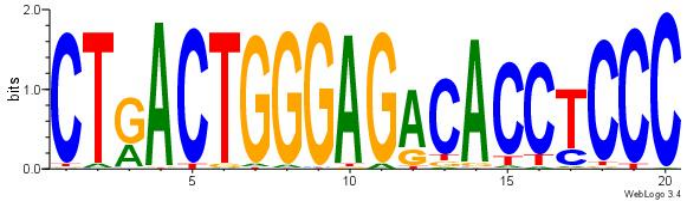

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

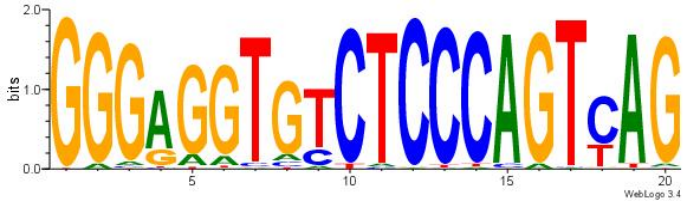

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.13099

Alignment:
AGATGCCAGCCAGAGCTCT
CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

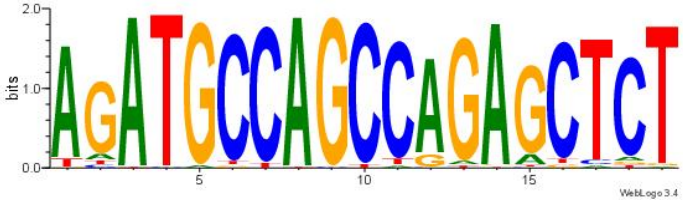

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

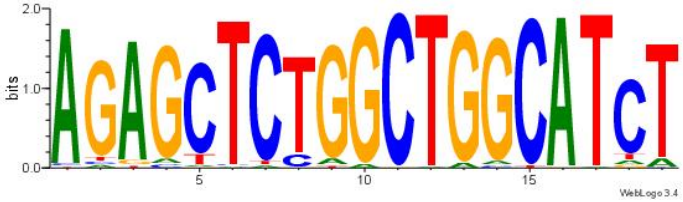

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.131212

Alignment:
CCTTGGCCAGCCCAGAAAG
-GACCTGCAGCCCGCCATG

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

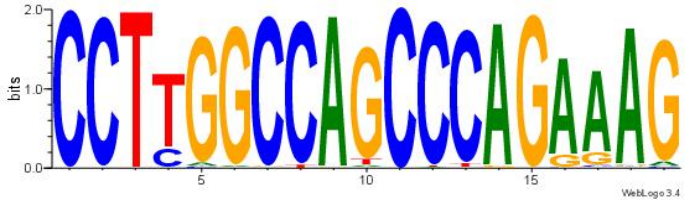

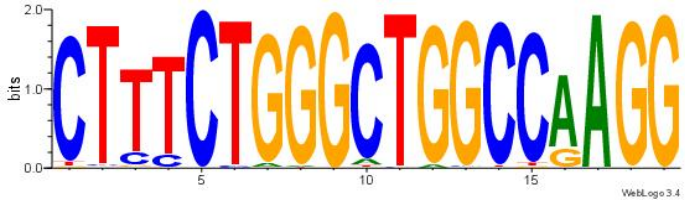

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.131577

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CATGGCGGGCTGCAGGTC-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

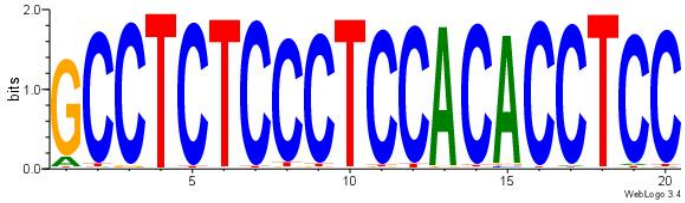

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

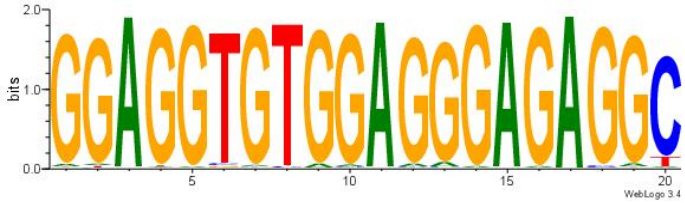

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.13236

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-GACCTGCAGCCCGCCATG-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

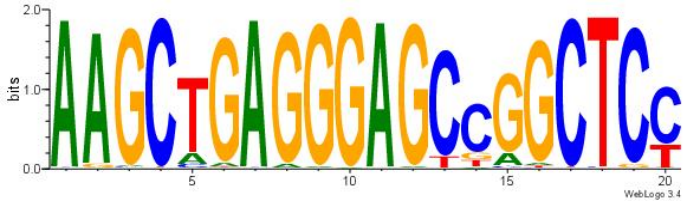

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

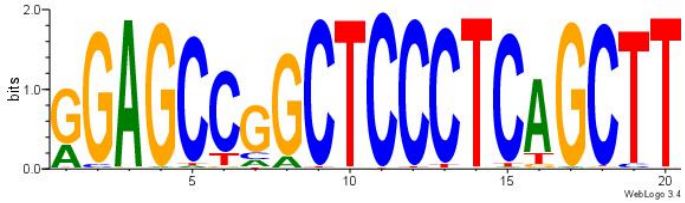

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.132483

Alignment:
ACACATCACAAAGCAGTTTC
-CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

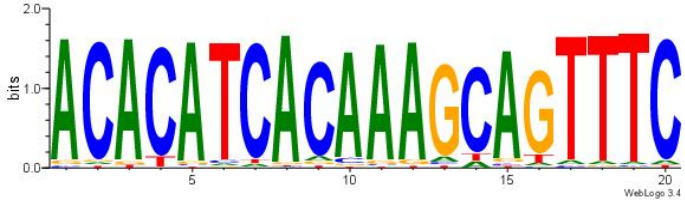

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

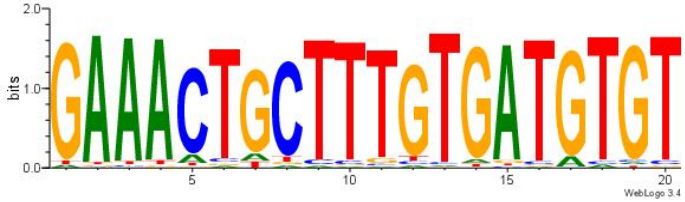

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.132627

Alignment:
ACCGAGMKMGCAGCTTCGGG
-CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

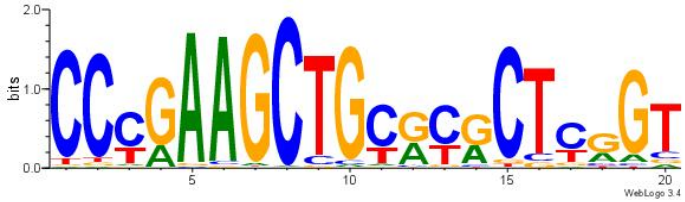

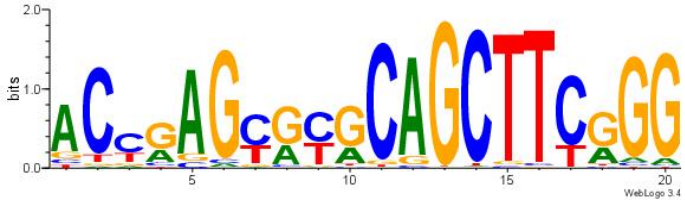

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.132888

Alignment:

```
ACATCCCAGACGATGGGCG
-CATGGCGGGCTGCAGGTC
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

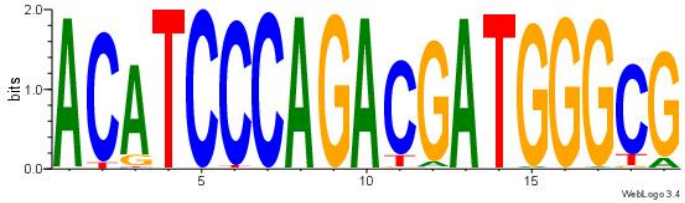

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

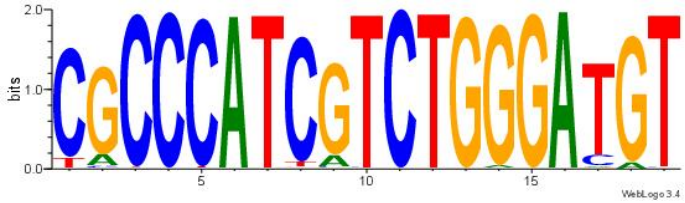

Dataset #:	1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.132977

Alignment:

```
GCCACCAMGCCMKGCTAAT
GACCTGCAGCCCGCCATG-
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

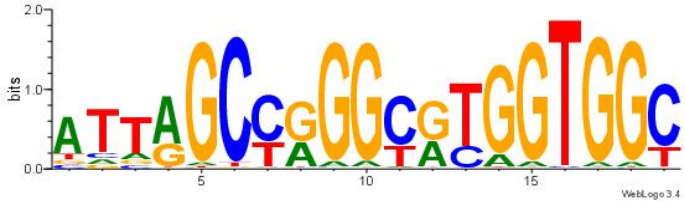

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

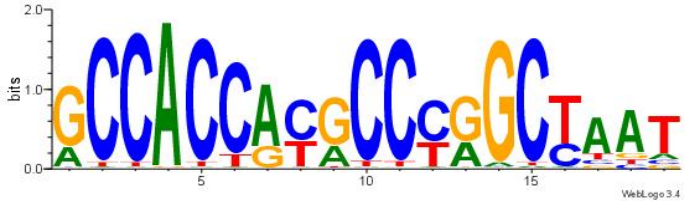

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.133922

Alignment:
GGTGGGGGGGTCAGCCCCC
CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

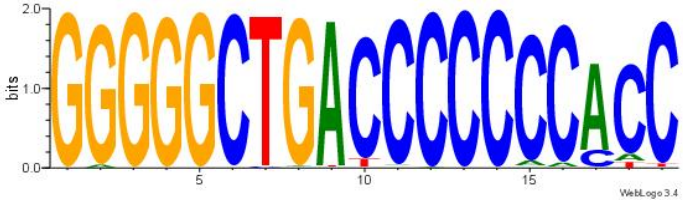

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

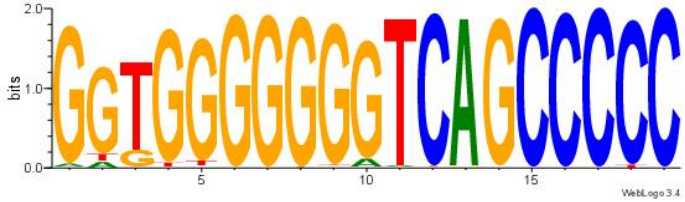

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.134923

Alignment:
ARCTCCTGKSCTCAAGKGAT
--CATGGCGGGCTGCAGGTC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

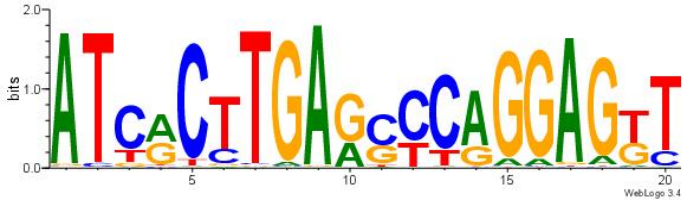

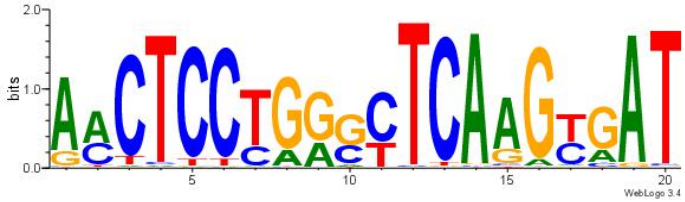

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.136073

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
--GACCTGCAGCCCGCCATG
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

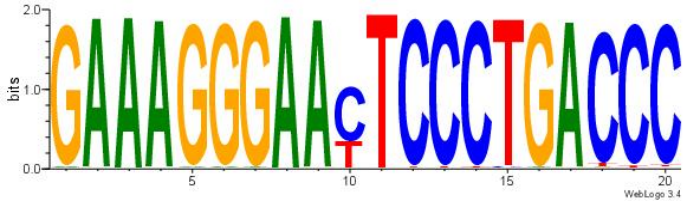

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

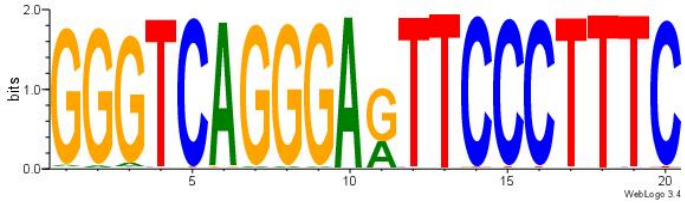

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.138339

Alignment:

```
CCACCACAGCTCAAGGAGGC
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

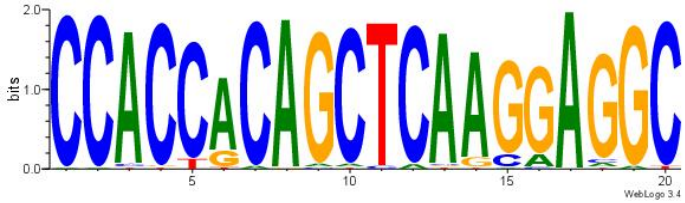

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

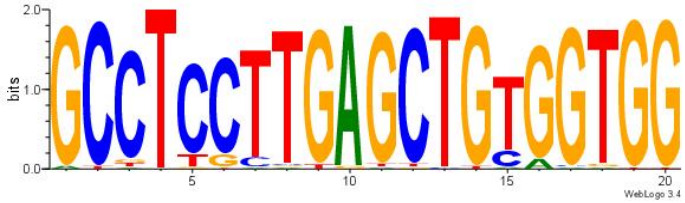

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.139138

Alignment:
AAATTACCCAGTCTCAGGTA
--CATGGCGGGCTGCAGGTC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

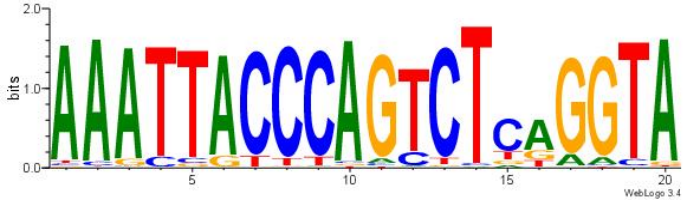

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

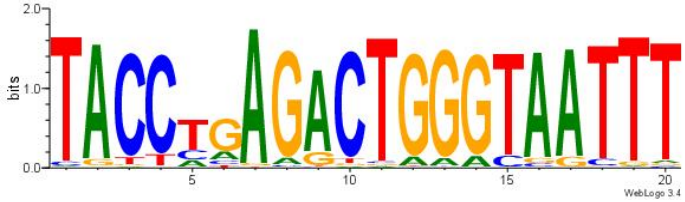

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.14007

Alignment:
ACCKTCGCGGTGAGTGTTAC
--CATGGCGGGCTGCAGGTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

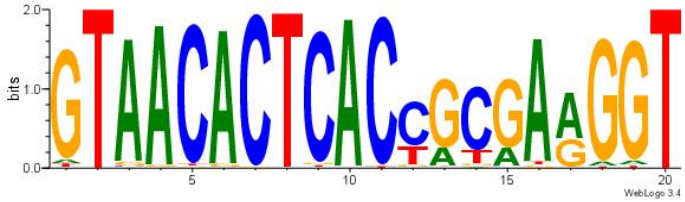

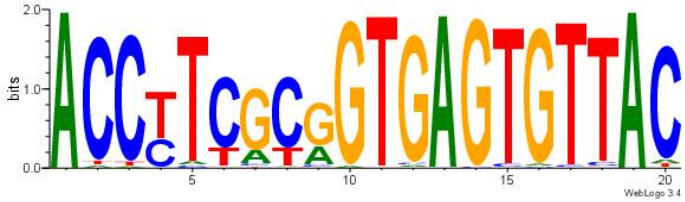

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.140323

Alignment:

```
AAGTCCAAGATCAAGGTGYY
CATGGCGGGCTGCAGGTC--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

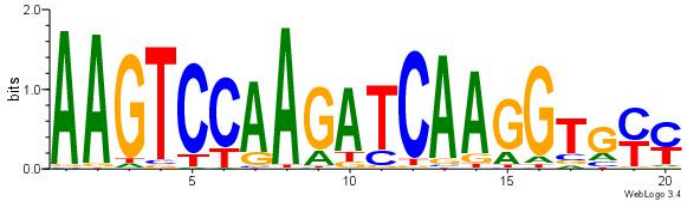

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

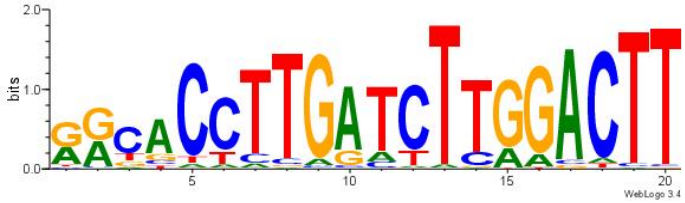

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.141085

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

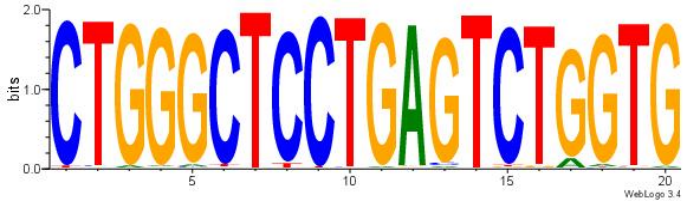

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

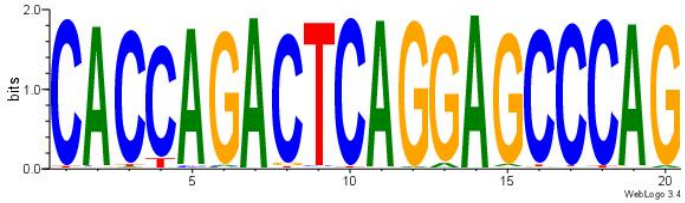

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.141199

Alignment:
CCTAGATTTCAGARGATGT
CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

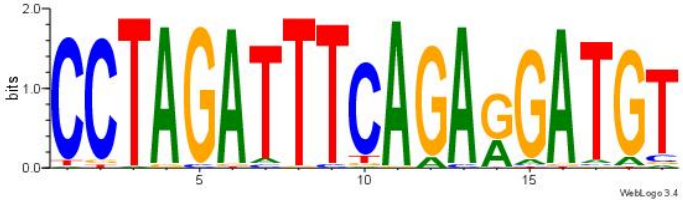

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

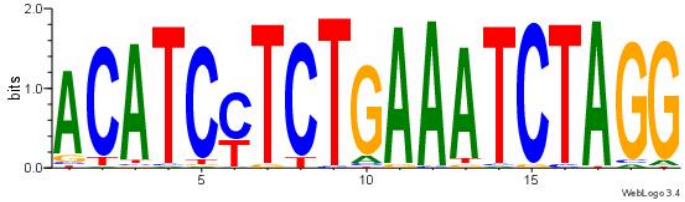

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.141269

Alignment:
GGCAATGCCTCGCCCTGCTT
-GACCTGCAGCCCGCCATG-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

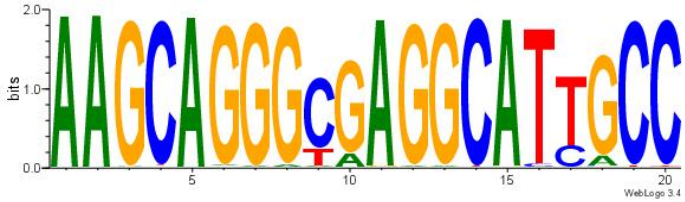

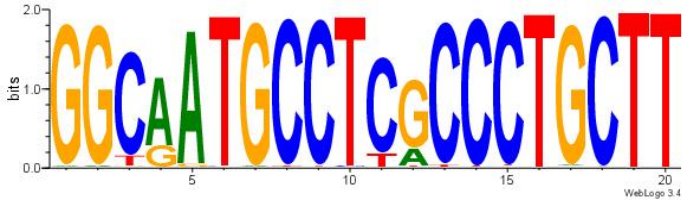

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.141487

Alignment:

```
CCTGCCATTGCYSAGGCTTG
CATGGCGGGCTGCAGGTC--
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

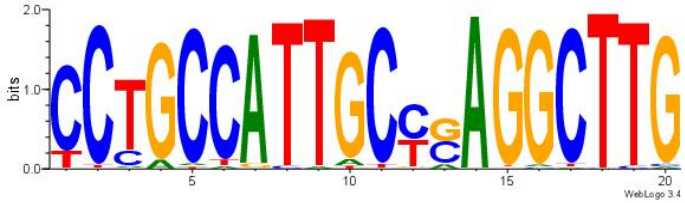

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

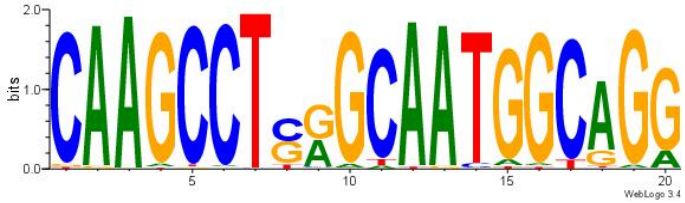

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.142313

Alignment:

```
GACAGGAGATTAACACTGAG
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

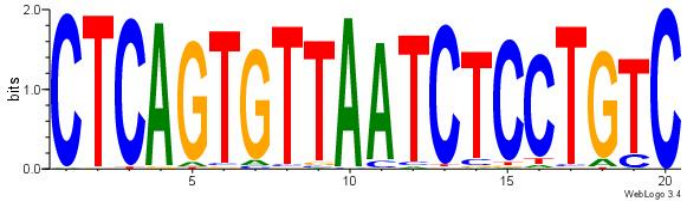

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

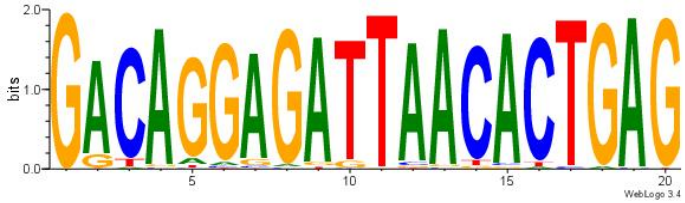

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.142909

Alignment:
CRTGAGCCACYGYRCCYGGC
CATGGCGGGCTGCAGGTC--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

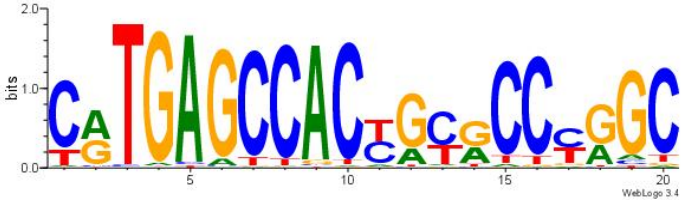

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

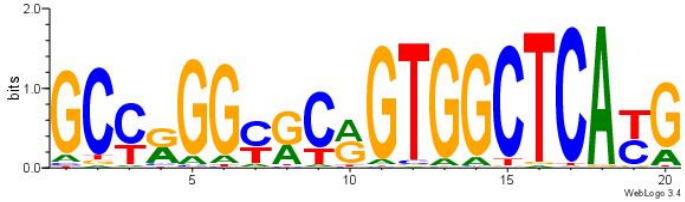

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.142959

Alignment:
ACTTTGGACTGTGGACTTTT
-CATGGCGGGCTGCAGGTC-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

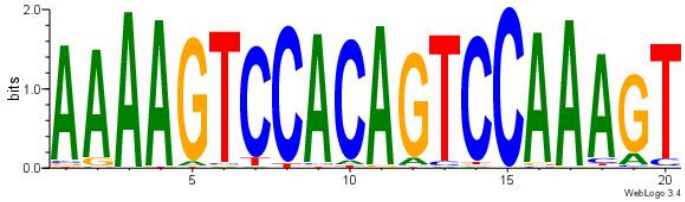

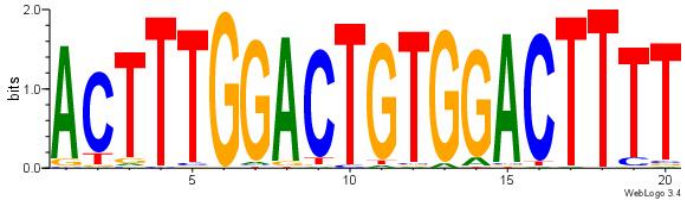

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.142986

Alignment:

```
CCCACGCCCACCCGGAACT
-GACCTGCAGCCCGCCATG
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

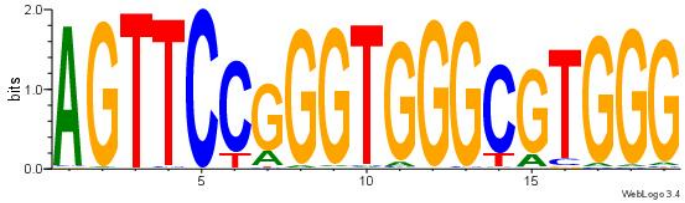

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

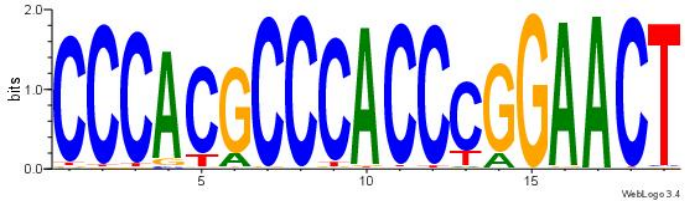

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.143071

Alignment:

```
GGGCTCCCACAGTGCAGCGG
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

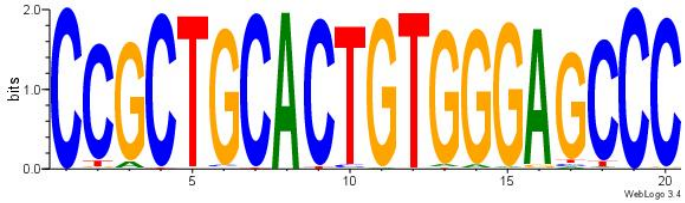

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

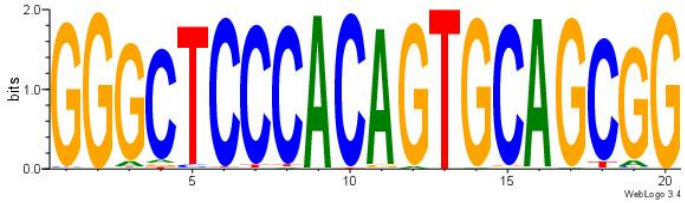

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.143146

Alignment:
GGGATTGTAAATACACCAAT
--GACCTGCAGCCCGCCATG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

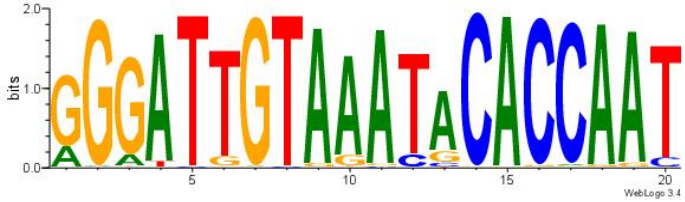

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.143313

Alignment:
ACTCAGCCCRCCTGCACCC
GACCTGCAGCCCGCCATG-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

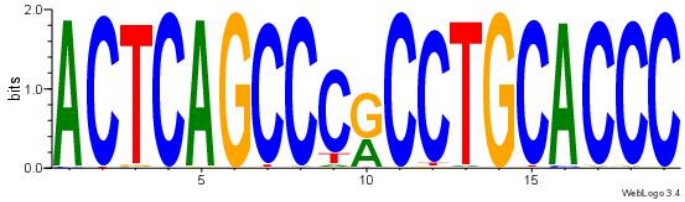

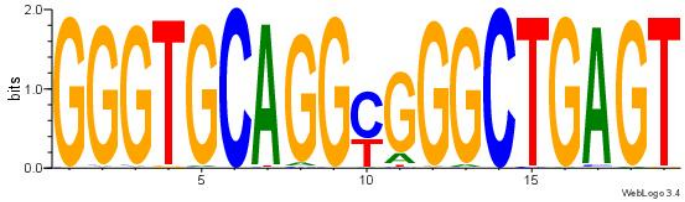

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.14382

Alignment:

```
TTGTCCCACTGGAAGGTCTT
CATGGCGGGCTGCAGGTC--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

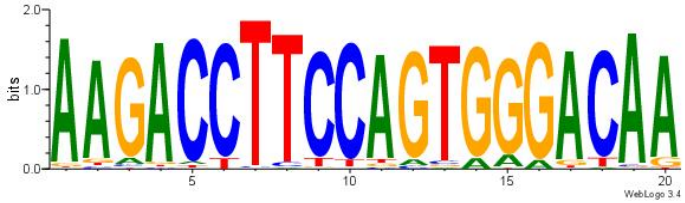

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

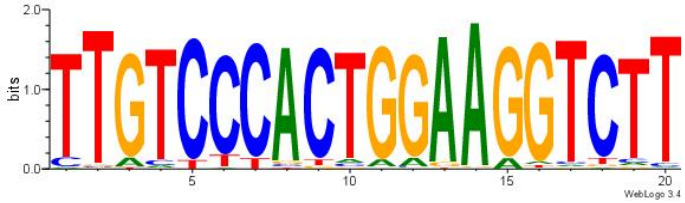

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.144348

Alignment:

```
CTGGGCRACAGAGYRAGACY
GACCTGCAGCCCGCCATG--
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

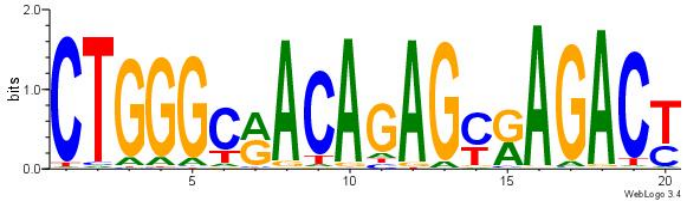

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

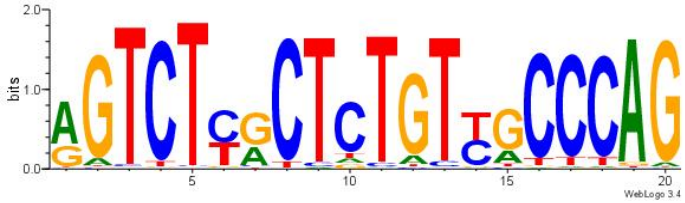

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.144526

Alignment:
TCTGGAGTGGACCTCCAGCA
-GACCTGCAGCCCGCCATG-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

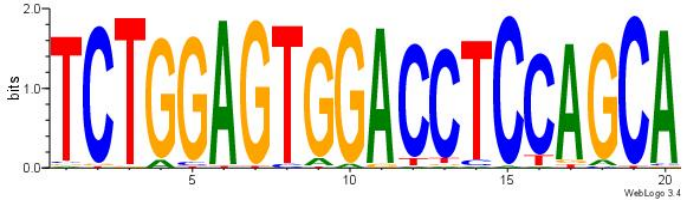

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

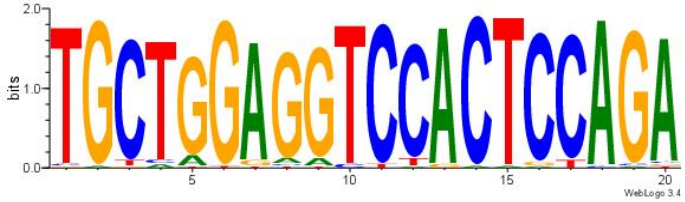

Dataset #: 1 Motif ID: 69 Motif name: Motif 69

Original motif Consensus sequence: GTAGCTGGGAYTACA

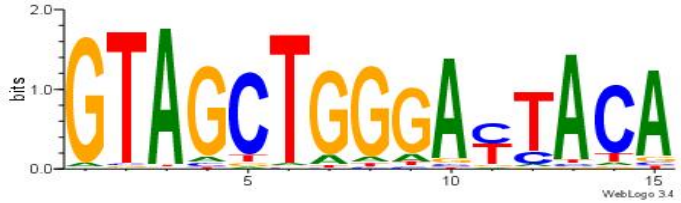

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

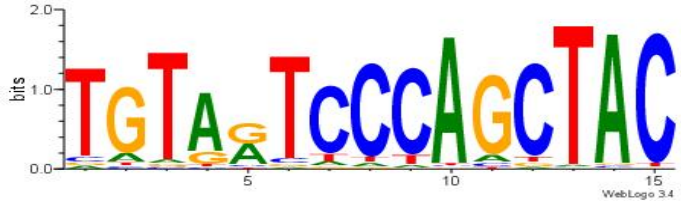

Best Matches for Motif ID 69 (Highest to Lowest)

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0936422

Alignment:
GTTGTGAGGATTAAATGAG
GTAGCTGGGAYTACA----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

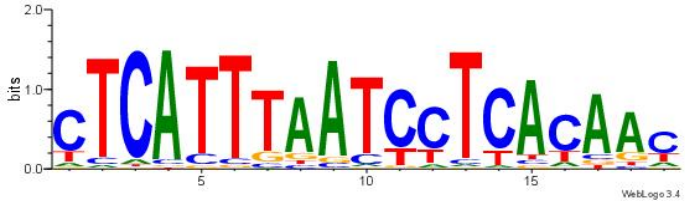

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

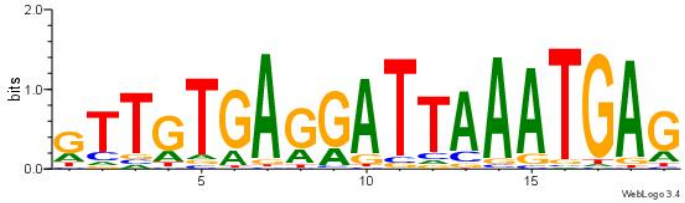

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.0994445

Alignment:
ATTGGTGTATTTACAATCCC
GTAGCTGGGAYTACA-----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

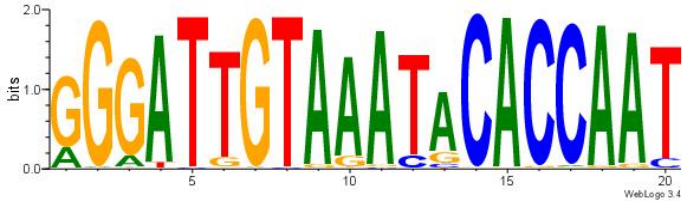

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0999355

Alignment:

```
CTGTTTGCCTGGGTATCA
-TGTAKTCCCAGCTAC--
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

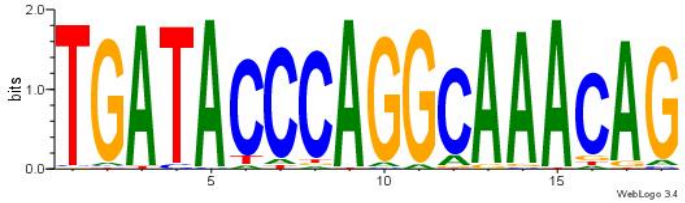

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

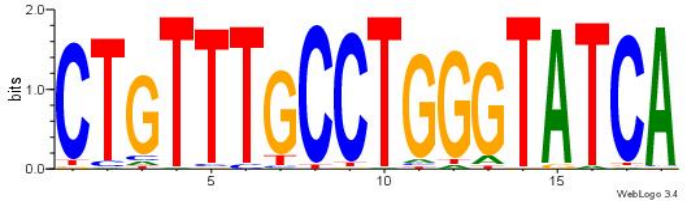

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.102257

Alignment:

```
CAACATGGATGRARCTGGAG
----GTAGCTGGGAYTACA-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

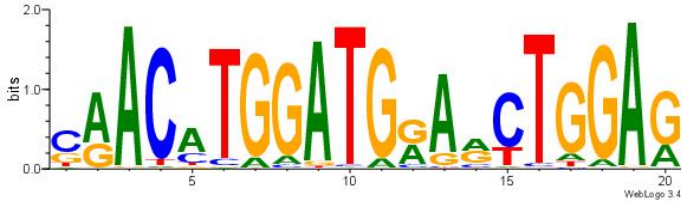

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

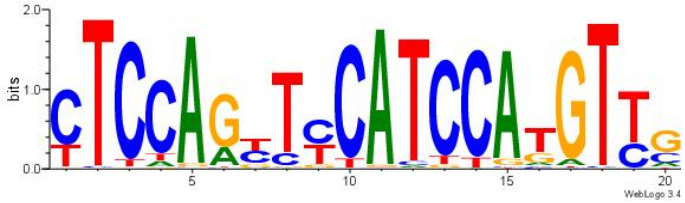

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 15
Similarity score: 0.102692

Alignment:
GTGCCAGGCACTGTKCTARG
GTAGCTGGGAYTACA-----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

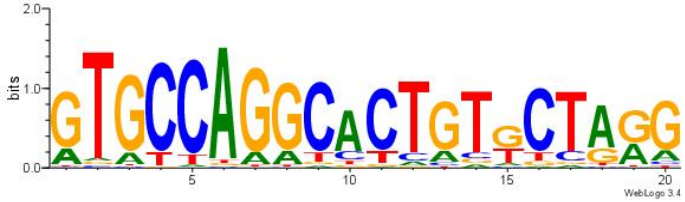

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

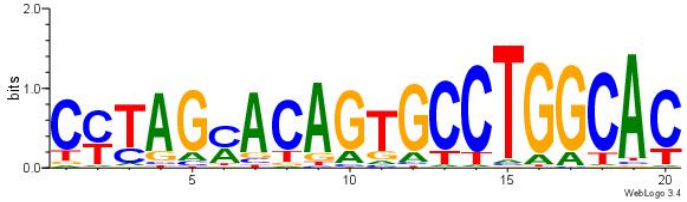

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.103081

Alignment:
GKCTGTACCCCCATTGTAT
---TGTAKTCCCAGCTAC-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

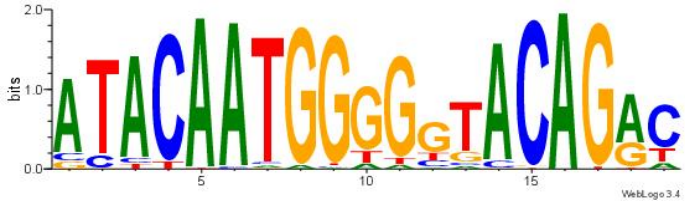

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

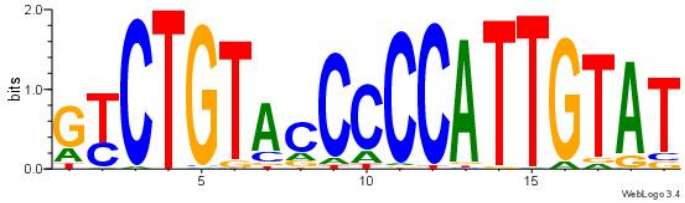

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.103142

Alignment:

```
AGTTGTAATTGGGAGACTT
----GTAGCTGGGAYTACA
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

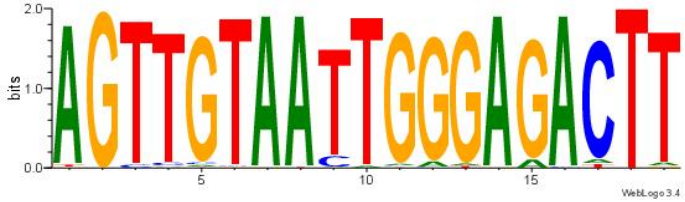

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

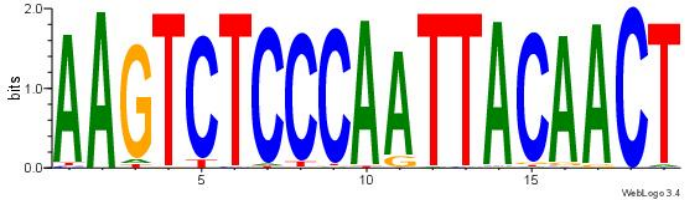

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.105888

Alignment:

```
CTGAGGACCTGAGGTCRTA
----GTAGCTGGGAYTACA
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

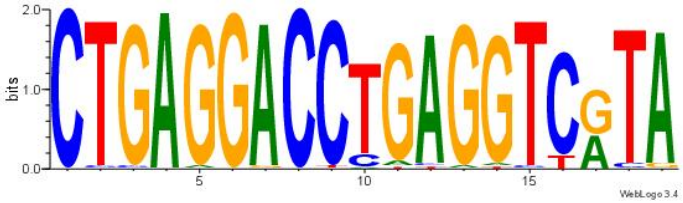

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

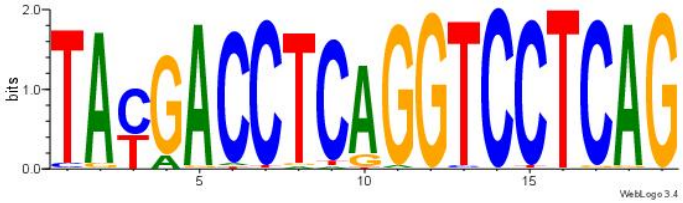

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.106057

Alignment:
ACTTTCAGGCATAACA
-GTAGCTGGGAYTACA

Original motif Consensus sequence: ACTTTCAGGCATAACA

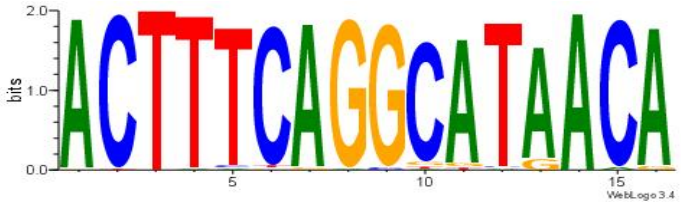

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

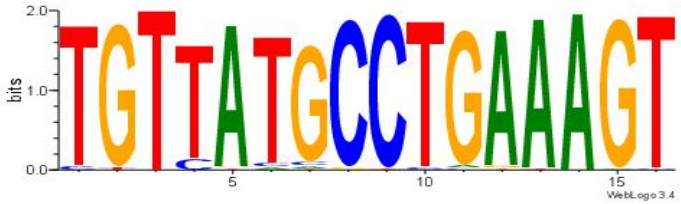

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.106744

Alignment:
CCCGAAGCTGCRYRCTCGGT
---GTAGCTGGGAYTACA--

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

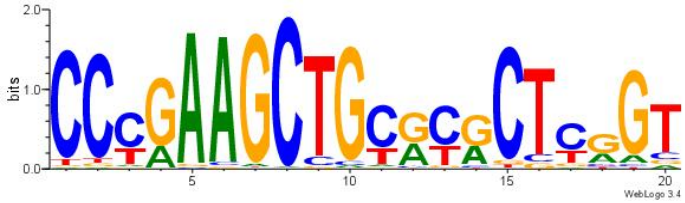

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

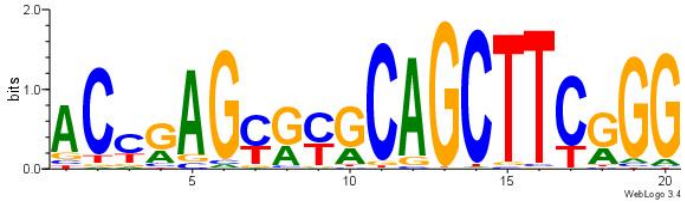

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.106934

Alignment:

```
AAAGCTGGAGCTATTATCTA
GTAGCTGGGAYTACA-----
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

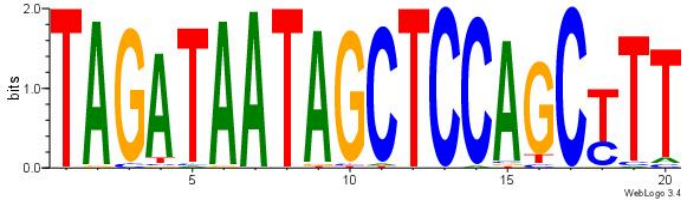

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

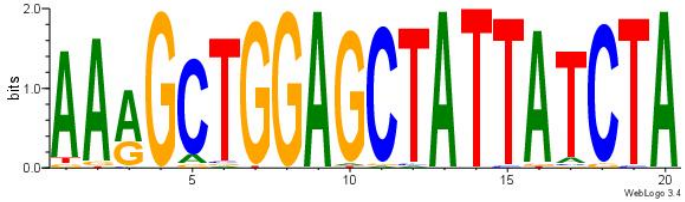

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.107064

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-GTAGCTGGGAYTACA----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

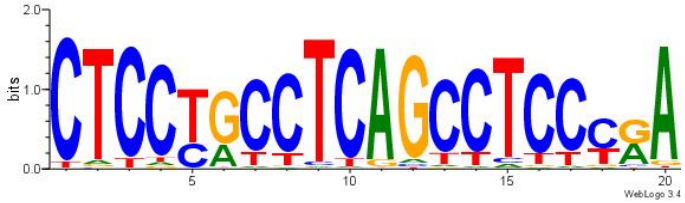

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

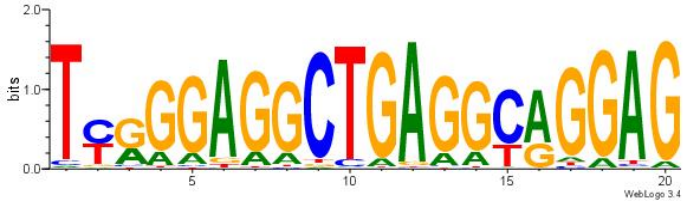

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.108122

Alignment:
CATTTCCAWCTGAGGTAC
TGTAKTCCCAGCTAC---

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

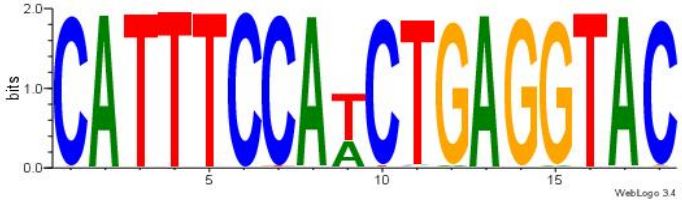

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

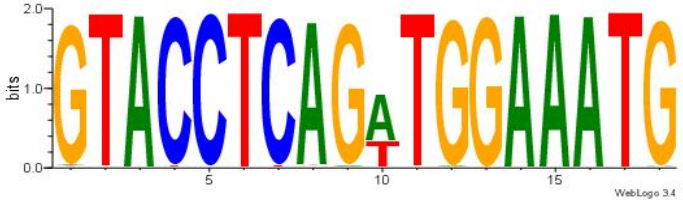

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.108557

Alignment:
GCAGCAMTATTCACAATAG
GTAGCTGGGAYTACA----

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

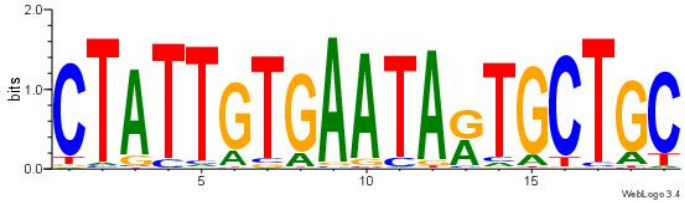

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

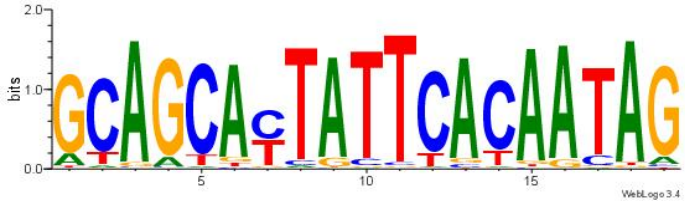

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.109976

Alignment:

```
AGGCTGTTTTACAGTTAAC
----TGTAKTCCCAGCTAC
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

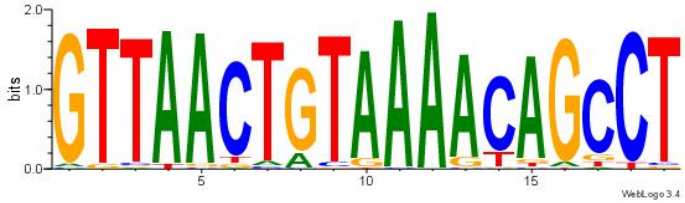

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

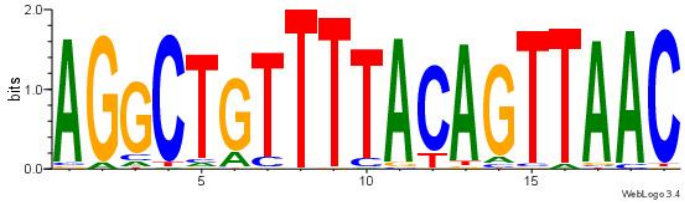

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.110195

Alignment:

```
AGTGTTTCCAAMCTGCT
-TGTAKTCCCAGCTAC-
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

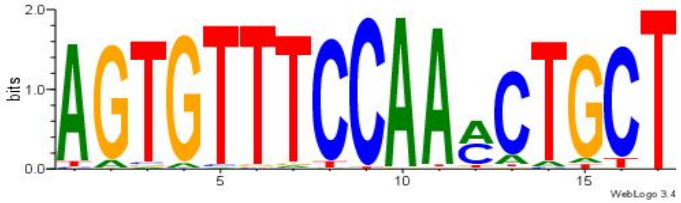

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

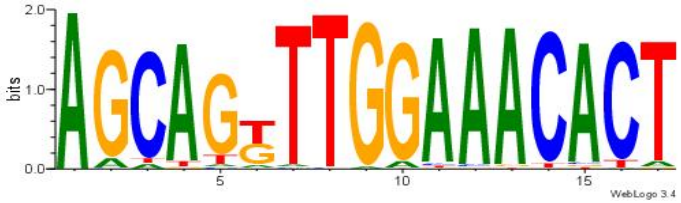

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 15
Similarity score: 0.110397

Alignment:
ATTAGCYRGGCRTGGTGGC
-GTAGCTGGGAYTACA---

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

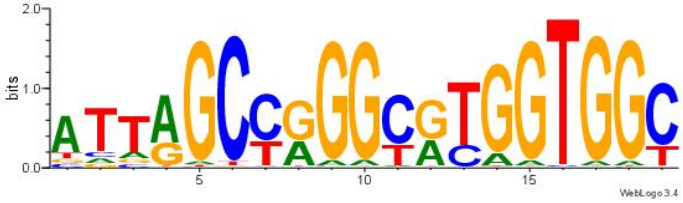

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

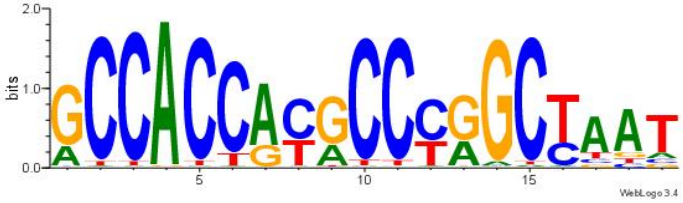

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.110416

Alignment:
ATGGAATAYTATTCAGCCAT
----TGTAKTCCCAGCTAC-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

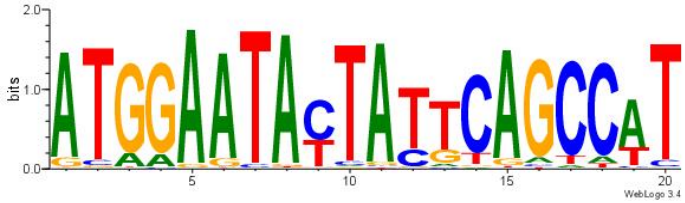

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

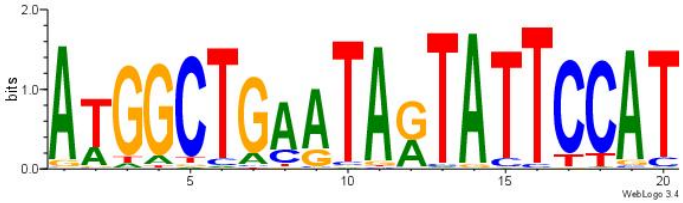

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.110893

Alignment:

```
GCTGCARTCTCGGCACTTT
--TGTAKTCCCAGCTAC--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

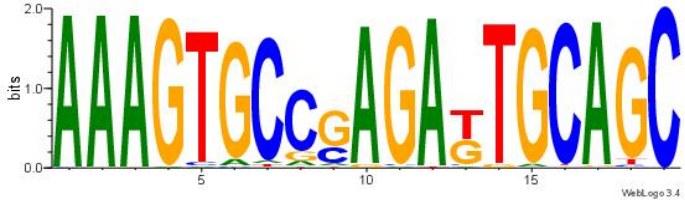

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

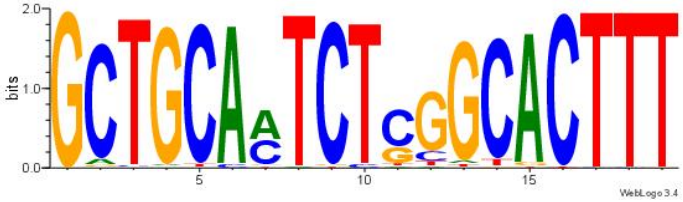

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.111804

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-----GTAGCTGGGAYTACA
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

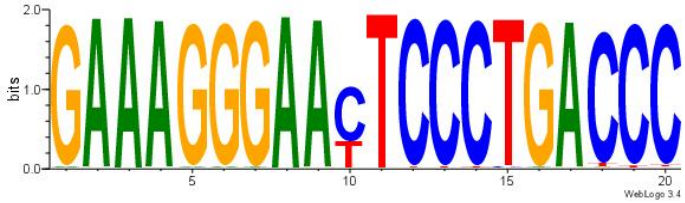

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

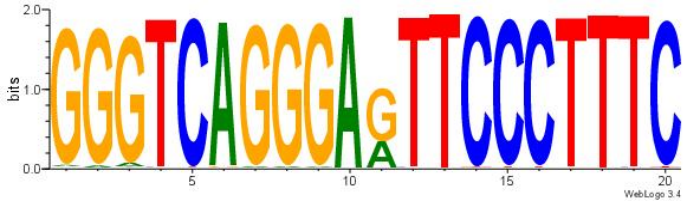

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 15
Similarity score: 0.113698

Alignment:
GCCTCTCCCTCCACACCTCC
-----TGTAKTCCCAGCTAC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

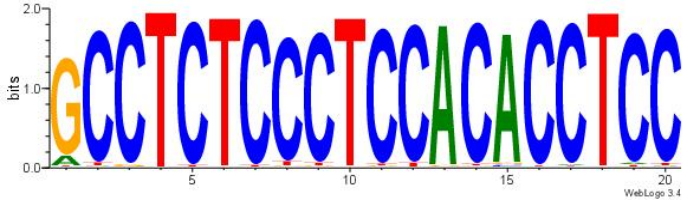

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

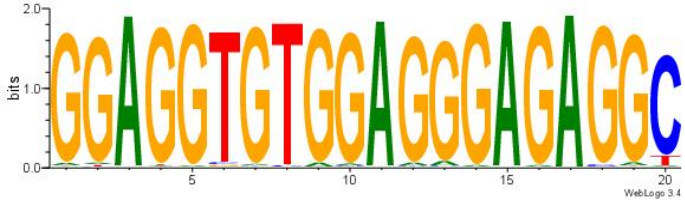

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.113747

Alignment:
HAGTGGKATTGCTGGATCAT
----TGTAKTCCCAGCTAC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

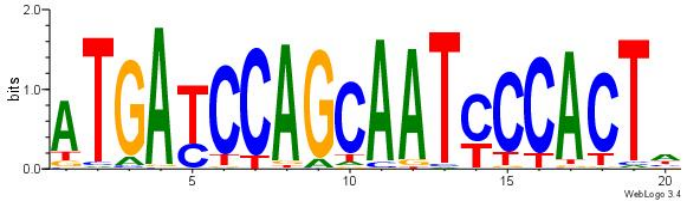

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

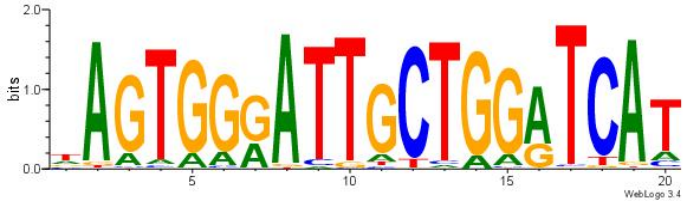

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.113942

Alignment:

```
GCTCCACCCAGTTCGAGCTT
TGTAKTCCCAGCTAC-----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

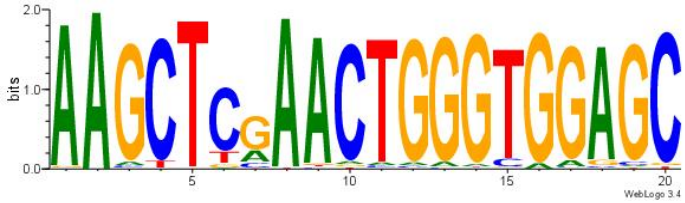

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

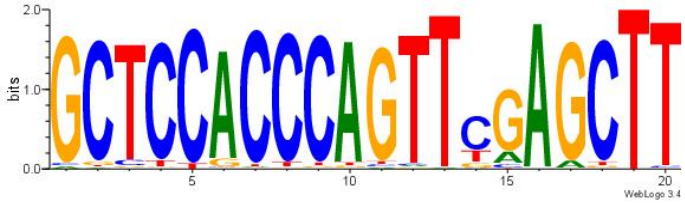

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.114535

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
----TGTAKTCCCAGCTAC-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

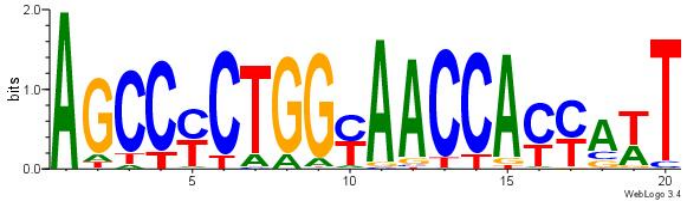

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

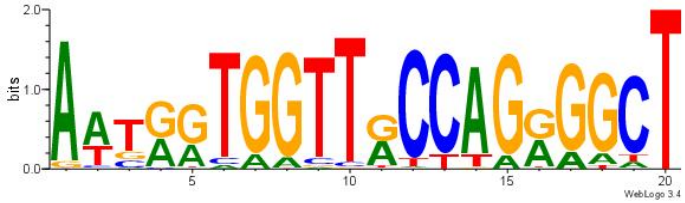

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.11524

Alignment:
GTCCCATCGACCACCCAAG
GTAGCTGGGAYTACA----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

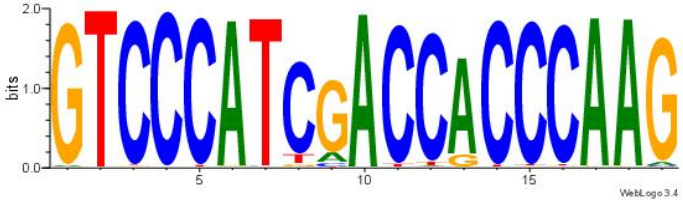

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

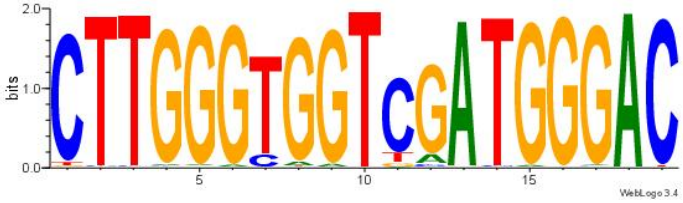

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.115411

Alignment:
ACCTGGAAAATCGGGTCACT
-----GTAGCTGGGAYTACA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

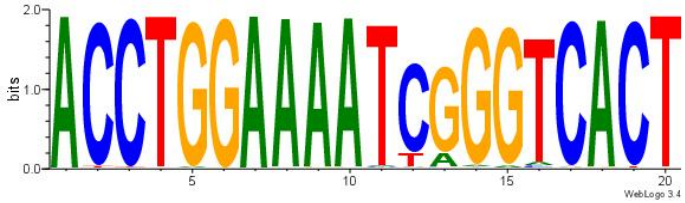

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

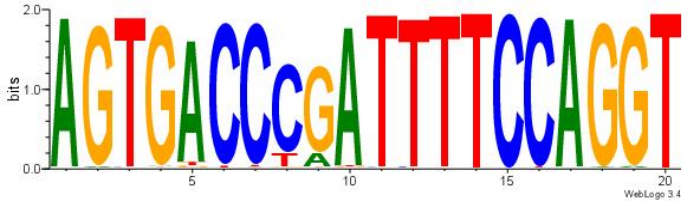

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.115619

Alignment:

```
AGGAACAGCTCCRGTCTAC
TGTAKTCCCAGCTAC----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

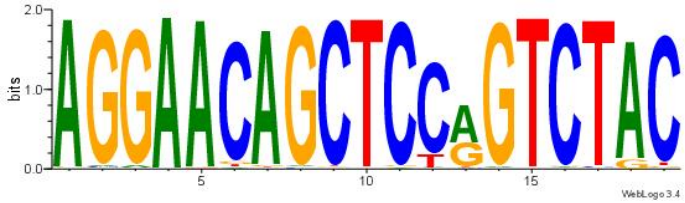

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

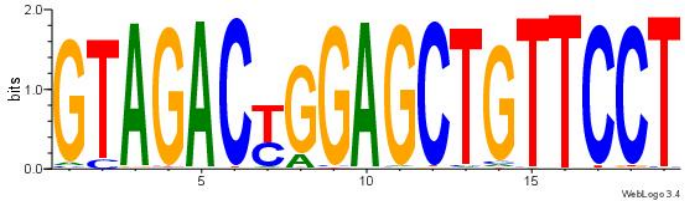

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.115643

Alignment:

```
VMATTTAKTGAGCACCTACT
----TGTAKTCCCAGCTAC-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

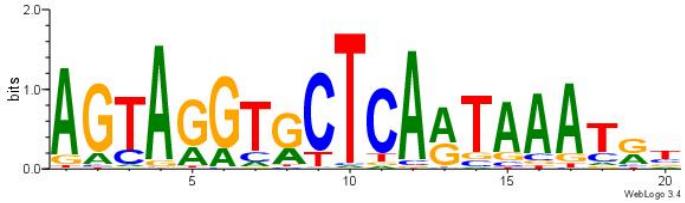

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

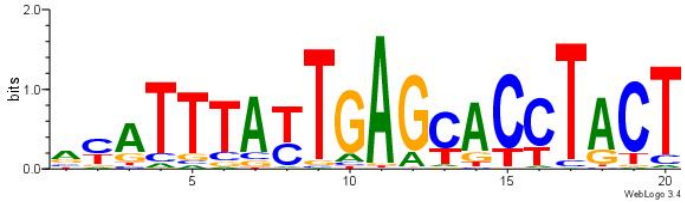

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 15
Similarity score: 0.115729

Alignment:
TTTYTWTTTTTTYTWGAGAC
-----TGTAKTCCCAGCTAC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

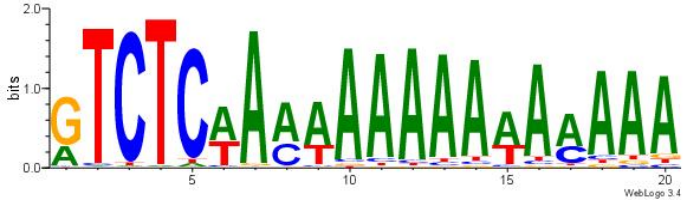

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

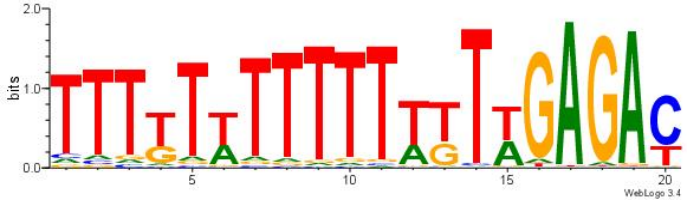

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.115982

Alignment:
AACCCTATTGTGAACTGYG
---TGTAKTCCCAGCTAC-

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

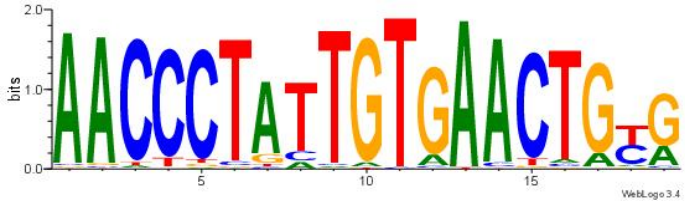

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

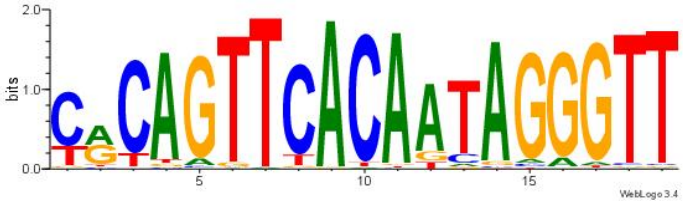

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.116022

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
---GTAGCTGGGAYTACA--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

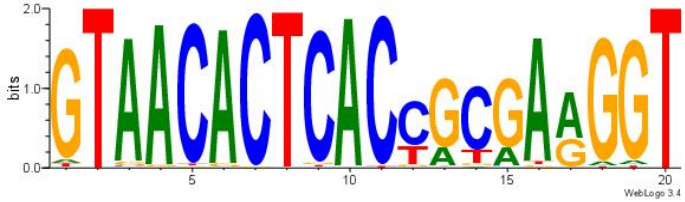

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

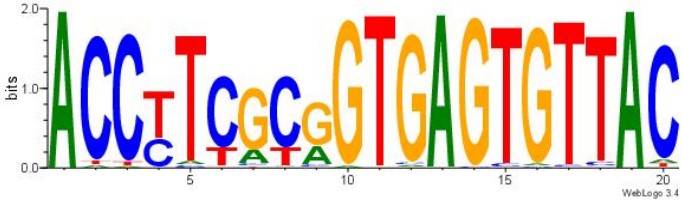

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.116179

Alignment:

```
GCTGTGTGACCTTGGGCAAG
----TGTAKTCCCAGCTAC-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

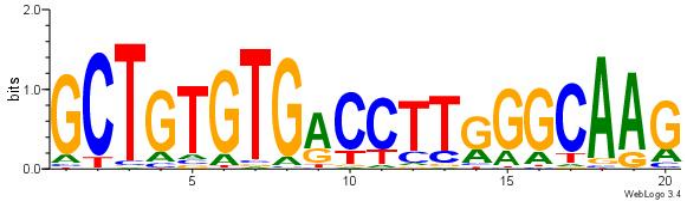

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

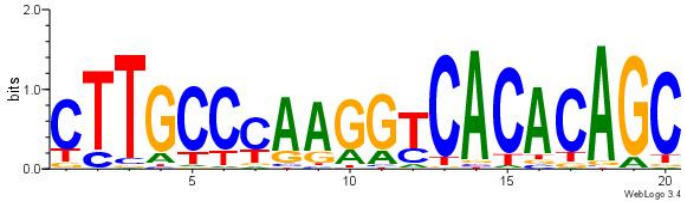

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 15
Similarity score: 0.116189

Alignment:
ATGTGGAGGTGGAAGACAGT
----GTAGCTGGGAYTACA-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

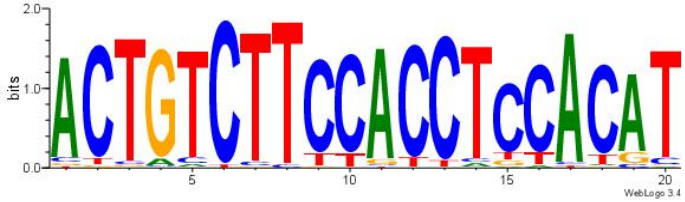

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

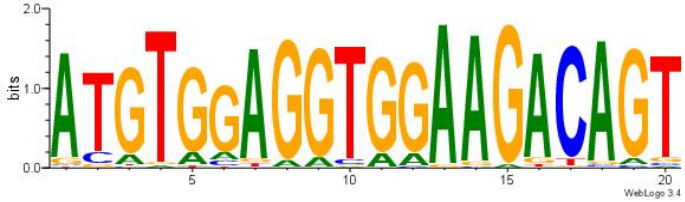

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.116238

Alignment:
TAATTTTATGTGTCAACTTG
-----TGTAKTCCCAGCTAC

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

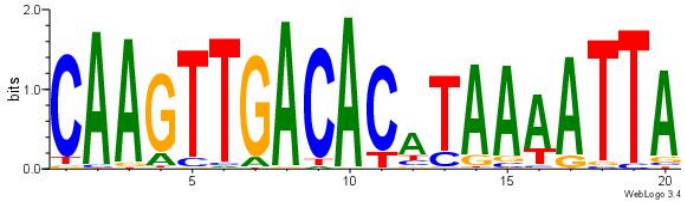

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

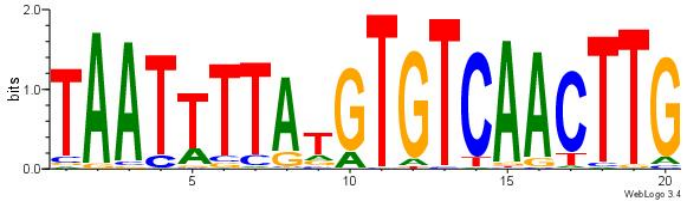

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.116334

Alignment:

```
CTGACTGGGAGACACCTCCC
GTAGCTGGGAYTACA-----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

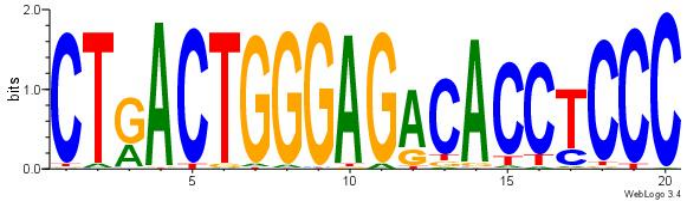

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

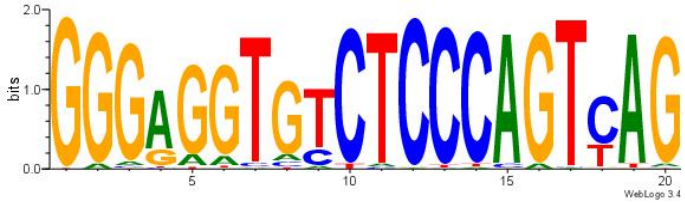

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.117365

Alignment:

```
ACTCAGCCCRCCTGCACCC
TGTAKTCCCAGCTAC----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

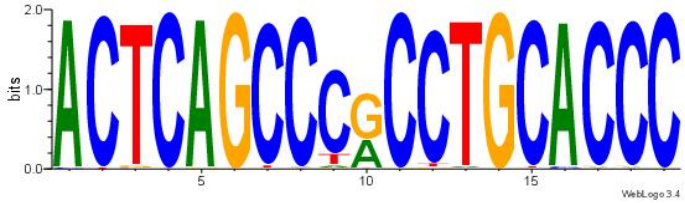

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

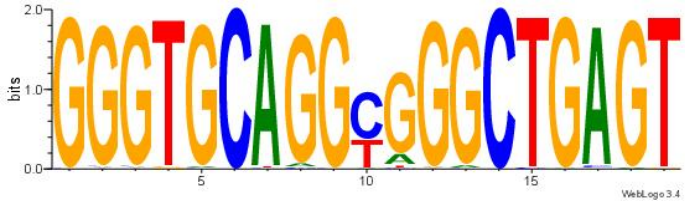

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.11737

Alignment:
GTTATTAATTGGCCTAATTT
----GTAGCTGGGAYTACA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

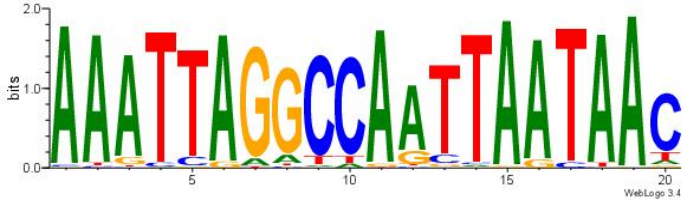

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.117888

Alignment:
CCCTGCTAGAACCTCCAA
-GTAGCTGGGAYTACA--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

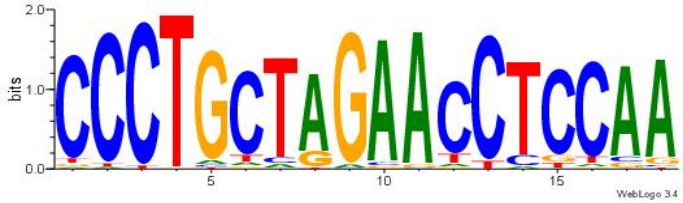

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

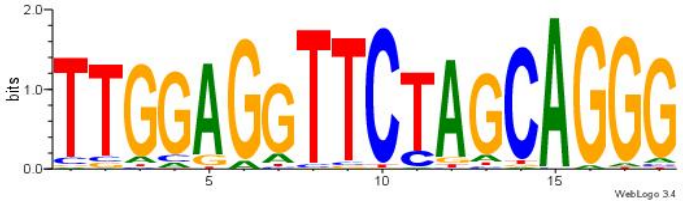

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.11793

Alignment:

```
GGCATCACGGATCCTACCAA
-GTAGCTGGGAYTACA----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

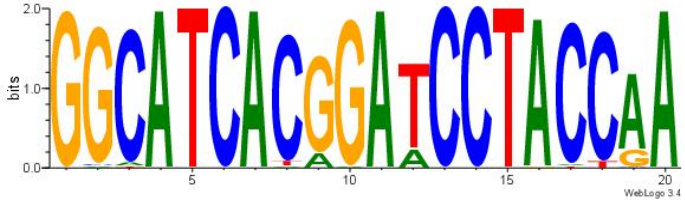

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

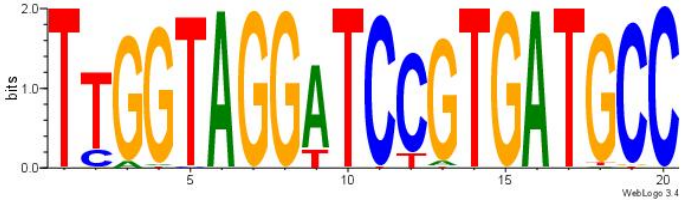

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.117937

Alignment:

```
CGTCGCTCACGCTGGGAGCT
TGTAKTCCCAGCTAC-----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

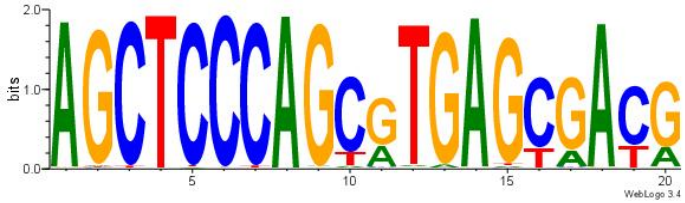

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

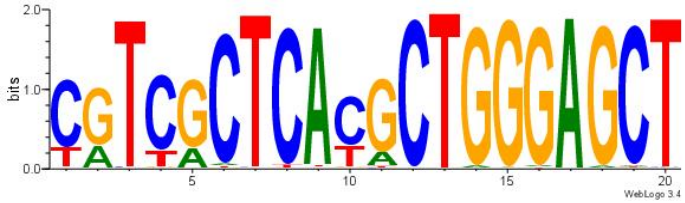

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.117982

Alignment:
CTGGGCRACAGAGYRAGACY
---TGTAKTCCCAGCTAC--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

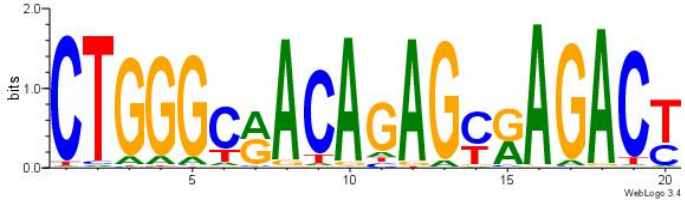

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

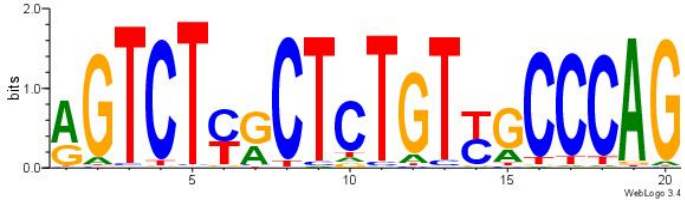

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.11799

Alignment:
GCCAATTTCTCCCATTTGGA
----TGTAKTCCCAGCTAC-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

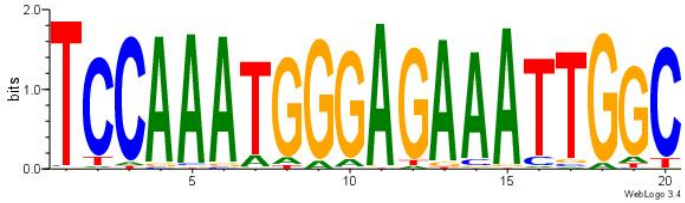

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

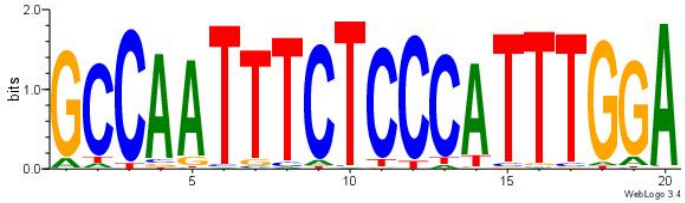

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.118161

Alignment:

```
CAAGGTCTGATTGTW
GTAGCTGGGAYTACA
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

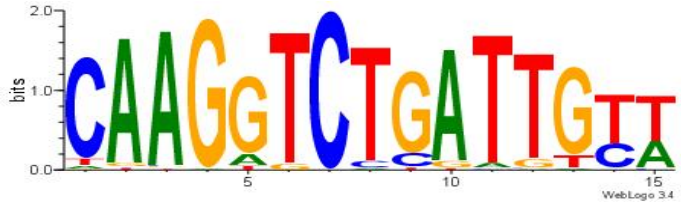

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.118186

Alignment:

```
ATTCAASATGAGATTTGGG
---GTAGCTGGGAYTACA-
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

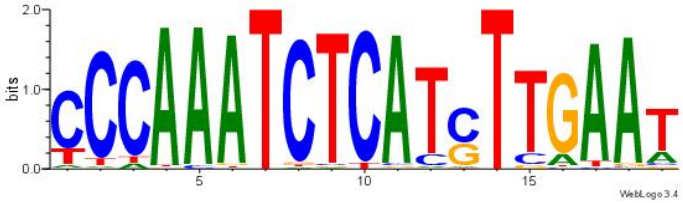

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

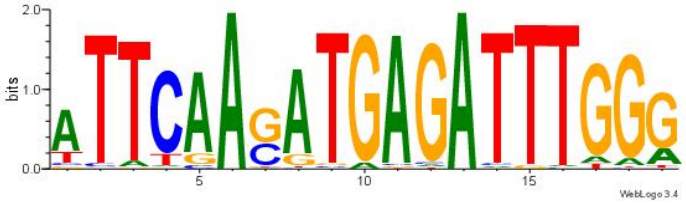

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.118723

Alignment:
AGGGCCTTTGCASWTGC
--TGTAKTCCCAGCTAC

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

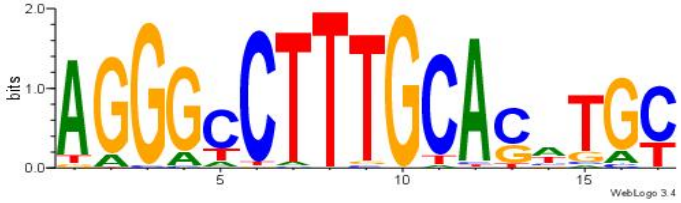

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

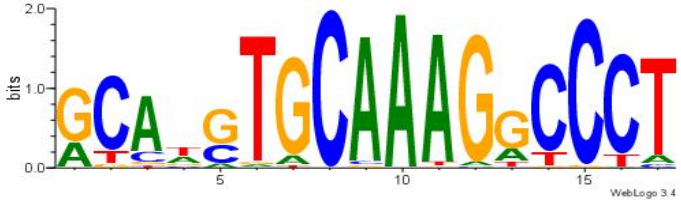

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.119141

Alignment:
CTTTCTGGGCTGGCCAAGG
GTAGCTGGGAYTACA----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

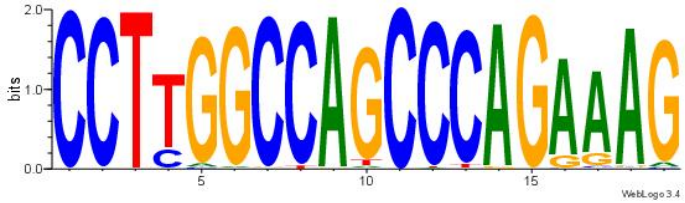

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

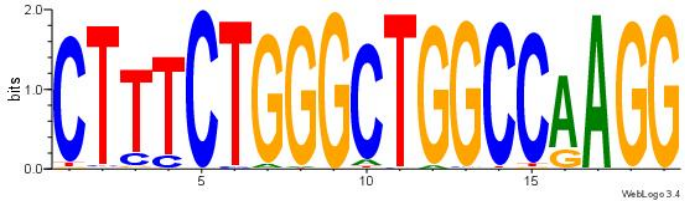

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.119422

Alignment:

```
GGGGGAGACATCACACR
GTAGCTGGGAYTACA--
```

Original motif Consensus sequence: GGGGGAGACATCACACR

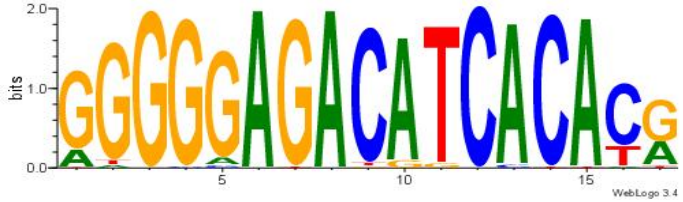

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

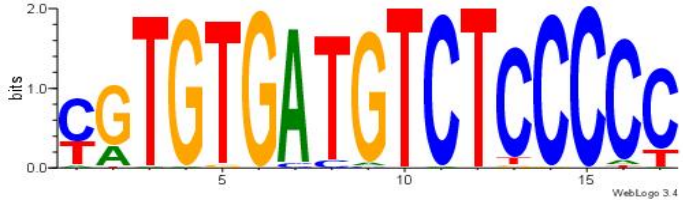

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.120495

Alignment:

```
GTKTMTATMTACCACATTTT
-TGTAKTCCCAGCTAC----
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

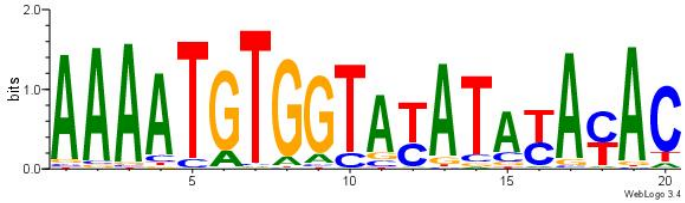

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

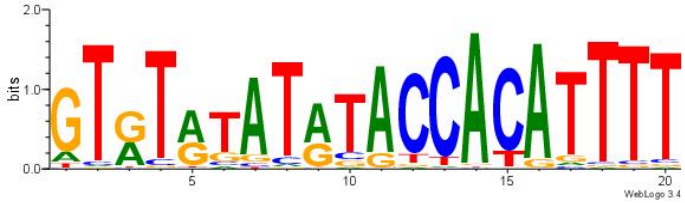

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.120769

Alignment:
GAAACTGCTTTGTGATGTGT
GTAGCTGGGAYTACA-----

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

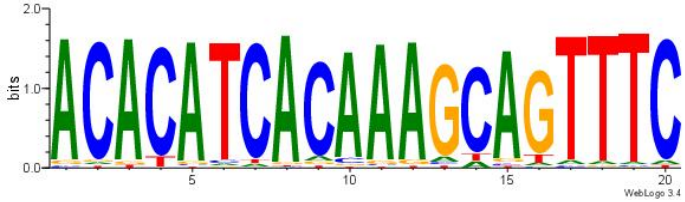

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

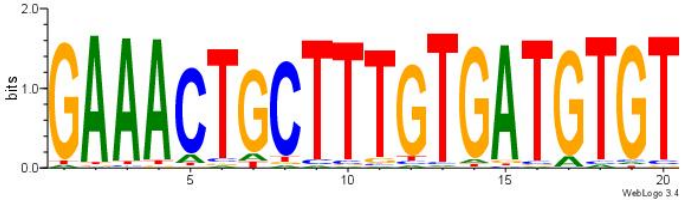

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.121164

Alignment:
GCTGGCCCGCAAGCGCCGCG
--TGTAKTCCCAGCTAC---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

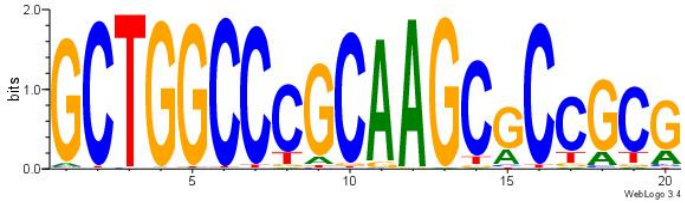

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

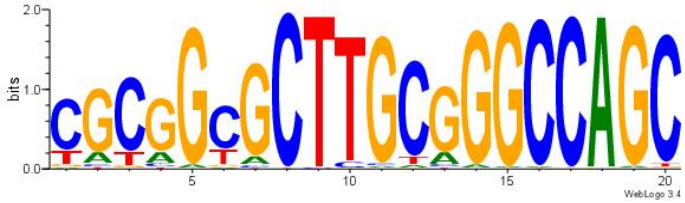

Dataset #: 1 Motif ID: 70 Motif name: Motif 70

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

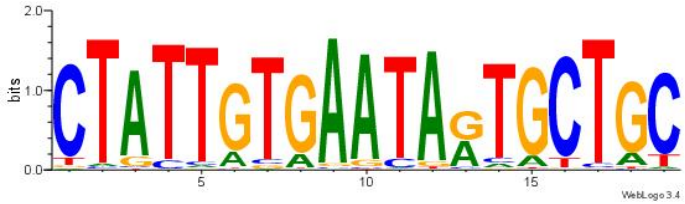

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

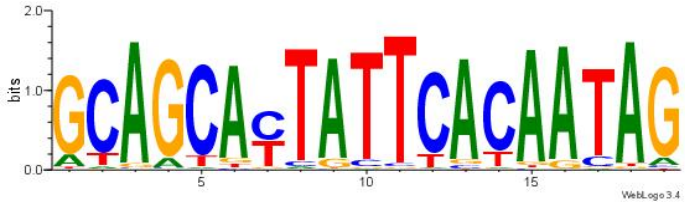

Best Matches for Motif ID 70 (Highest to Lowest)

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0948966

Alignment:
GCTGCARTCTCGGCACTTT
GCAGCAMTATTCACAATAG

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

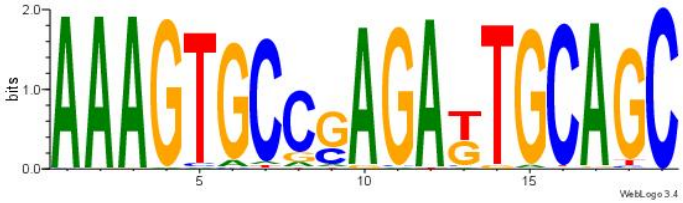

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

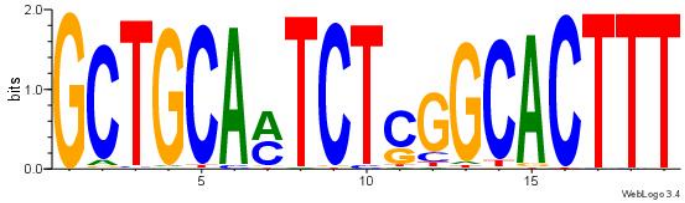

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.100944

Alignment:
GGGATTGTAAATACACCAAT
-CTATTGTGAATARTGCTGC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

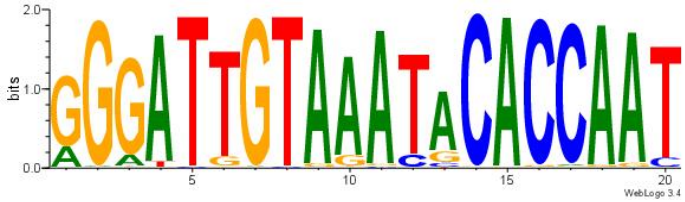

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.102726

Alignment:

```
TGGAGAACCTTTATGTCTAG
-GCAGCAMTATTCACAATAG
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

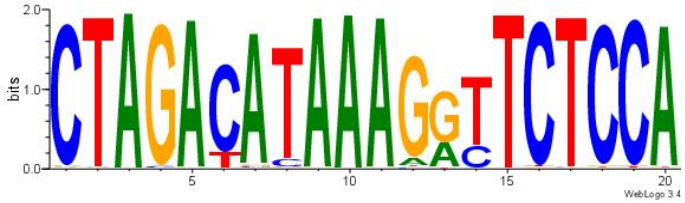

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

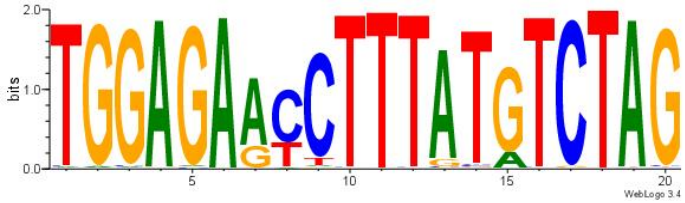

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.10487

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GCAGCAMTATTCACAATAG-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

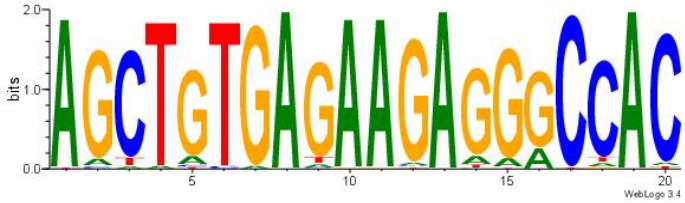

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

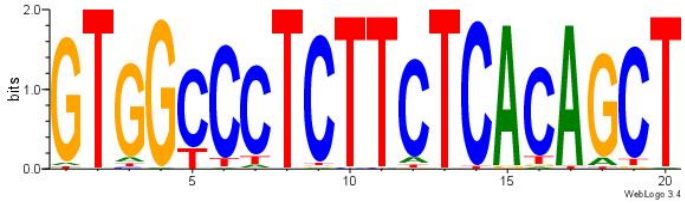

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.105823

Alignment:
GTAACACTCACCGCGARGGT
GCAGCAMTATTCACAATAG-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

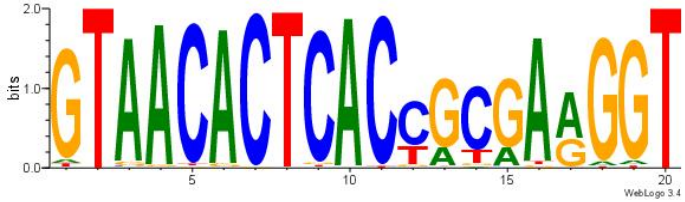

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

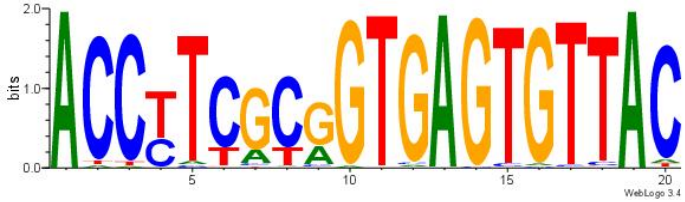

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.11037

Alignment:
TTGGTAGGATCCGTGATGCC
CTATTGTGAATARTGCTGC-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

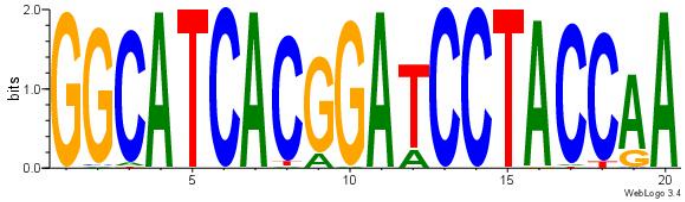

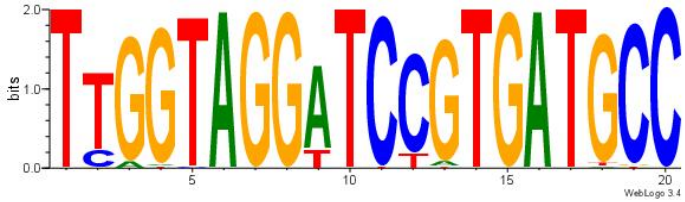

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.112319

Alignment:

```
TAGTGGTGATTTSTGAGAT
CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

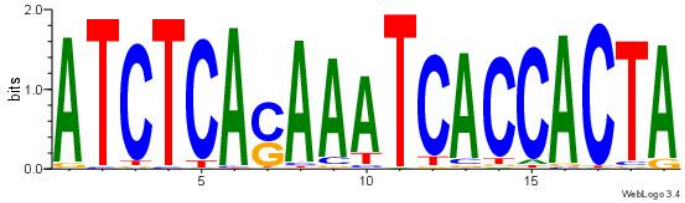

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

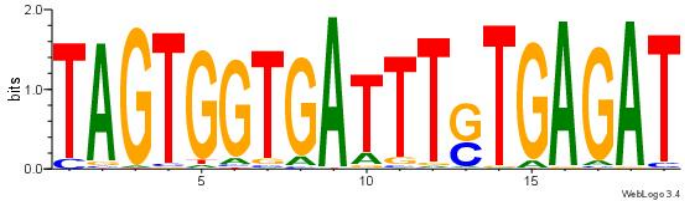

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.113072

Alignment:

```
GACAGGAGATTAACACTGAG
GCAGCAMTATTCACAATAG-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

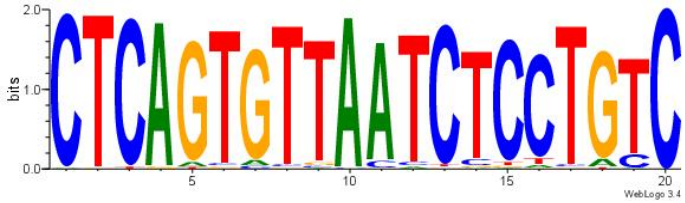

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

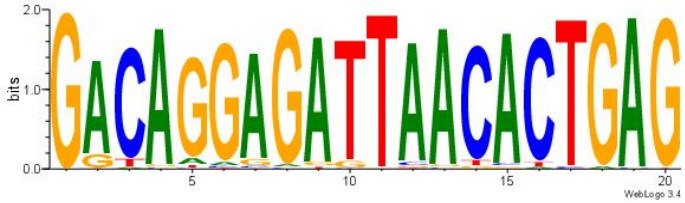

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.113798

Alignment:
GTKTMTATMTACCACATTTT
GCAGCAMTATTCACAATAG-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

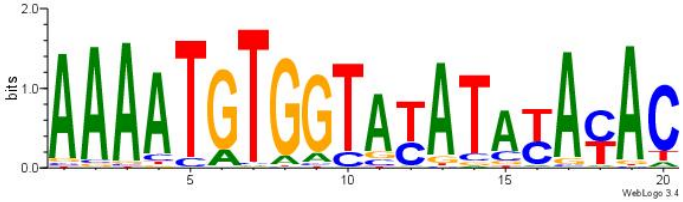

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

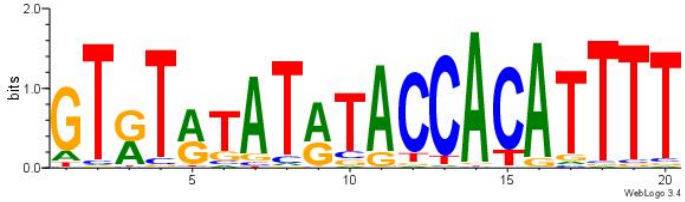

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.113809

Alignment:
TCCCTCCCGGACGGGGYGGC
-CTATTGTGAATARTGCTGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

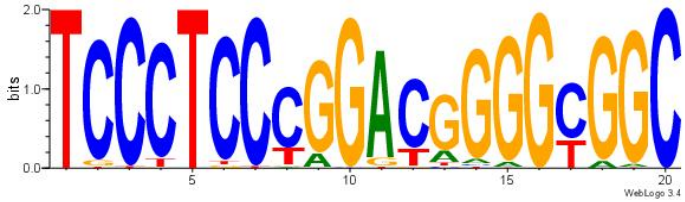

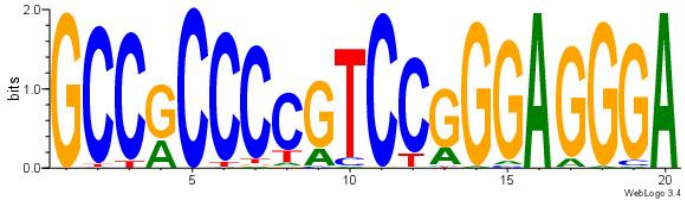

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.114356

Alignment:

```
GTGCCAGGCACTGTKCTARG
CTATTGTGAATARTGCTGC-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

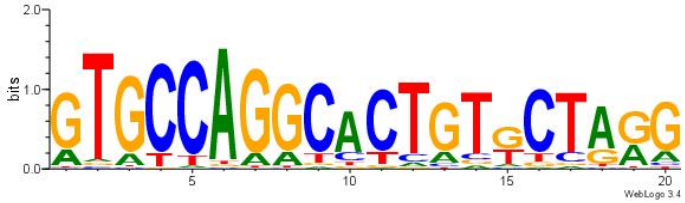

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

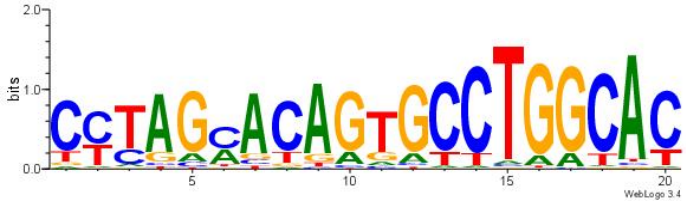

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.114584

Alignment:

```
TYTGTCMTTTTGTGACTGGC
GCAGCAMTATTCACAATAG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

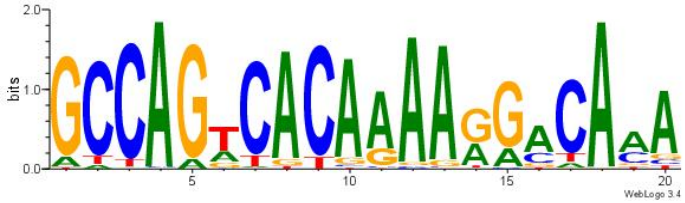

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

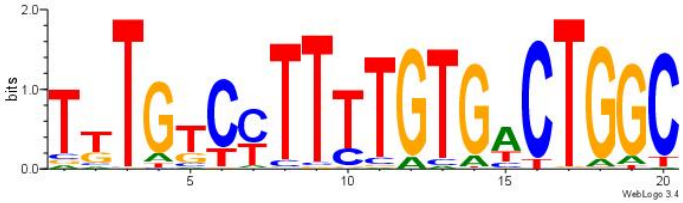

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.114702

Alignment:
TTTYTWTTTTTTYTWGAGAC
-CTATTGTGAATARTGCTGC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

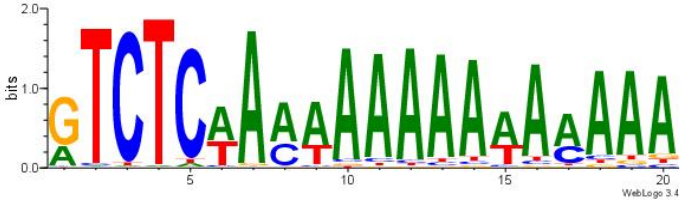

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

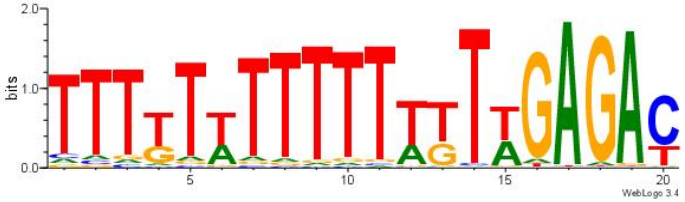

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.118782

Alignment:
CCACCACAGCTCAAGGAGGC
GCAGCAMTATTCACAATAG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

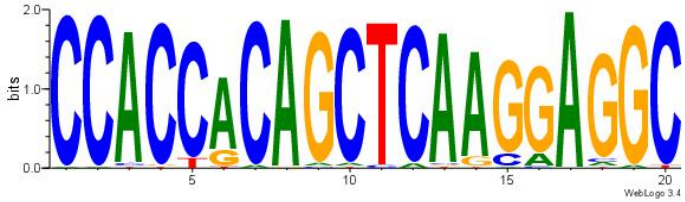

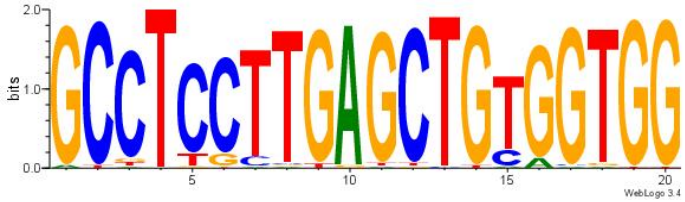

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.119545

Alignment:

```
AGAGCCAAATCATGARTGAA
GCAGCAMTATTCACAATAG-
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

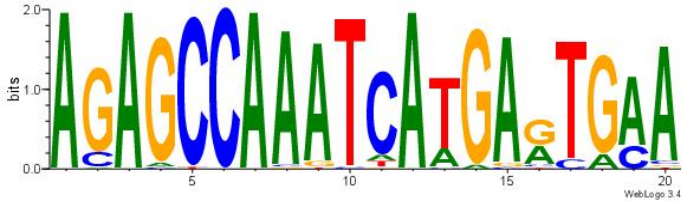

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

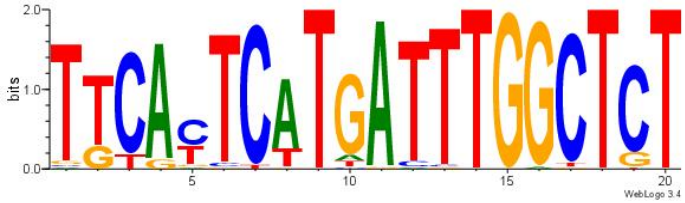

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.120347

Alignment:

```
GCCTCTCCCTCCACACCTCC
GCAGCAMTATTCACAATAG-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

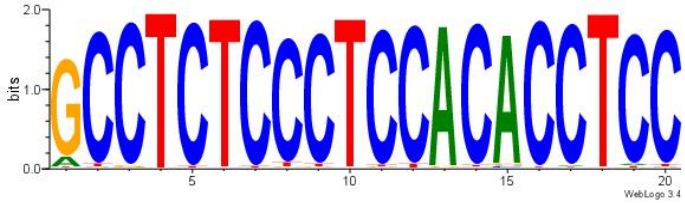

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

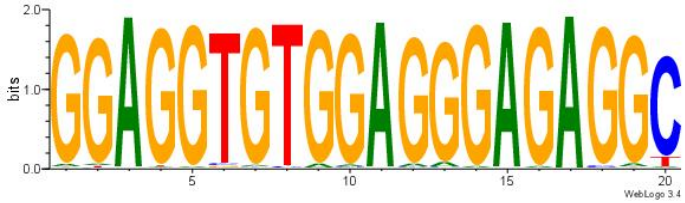

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.120878

Alignment:
CTTGCCCAAGGTCACACAGC
GCAGCAMTATTCACAATAG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

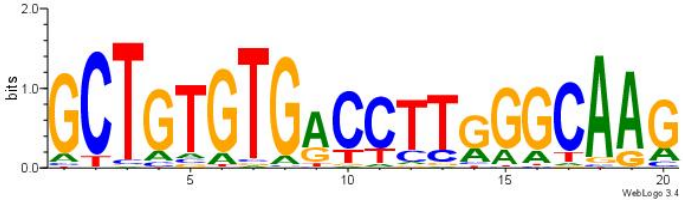

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

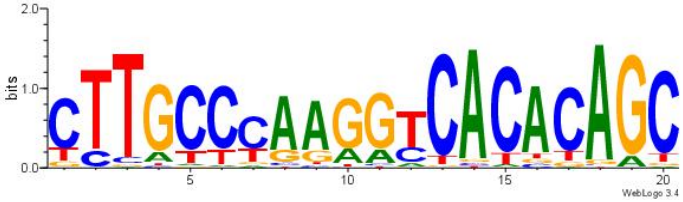

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.120991

Alignment:
CTGACTGGGAGACACCTCCC
CTATTGTGAATARTGCTGC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

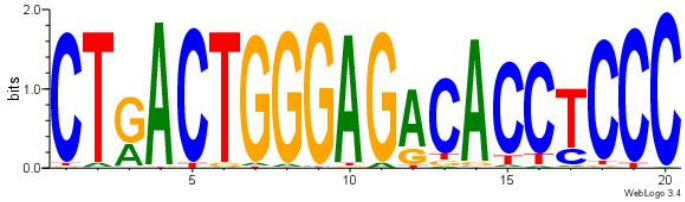

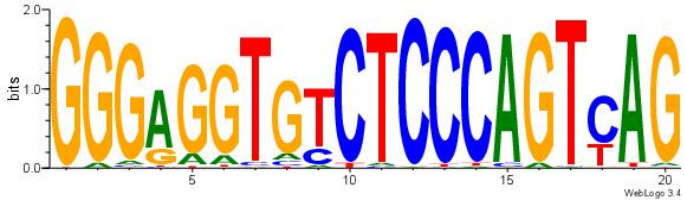

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.121548

Alignment:
GTTATTAATTGGCCTAATTT
-GCAGCAMTATTCACAATAG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

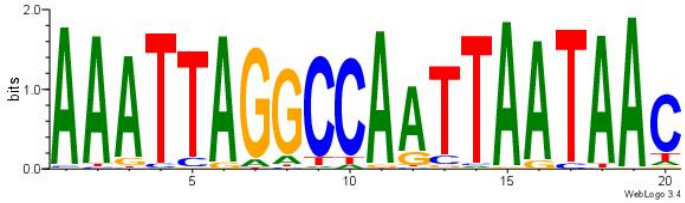

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.121834

Alignment:
GTTGTGAGGATTAAATGAG
GCAGCAMTATTCACAATAG

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

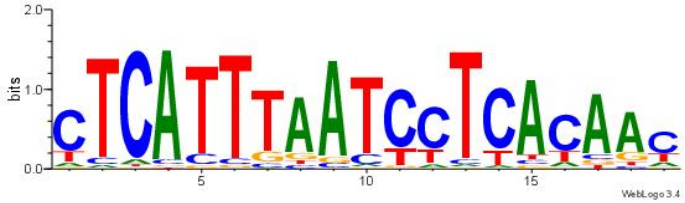

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

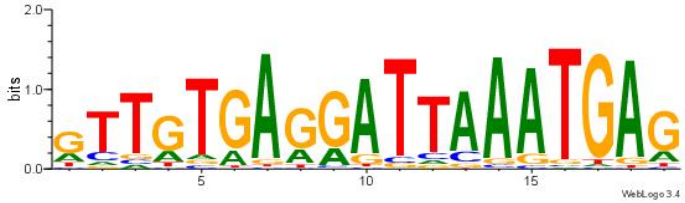

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.122465

Alignment:
GTCCCATCGACCACCCAAG
GCAGCAMTATTCACAATAG

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

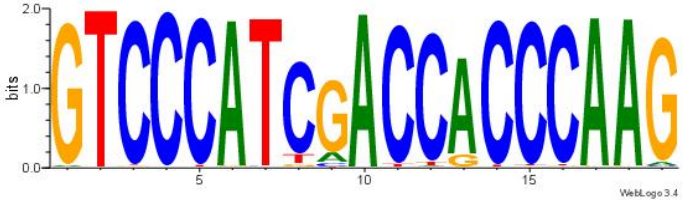

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

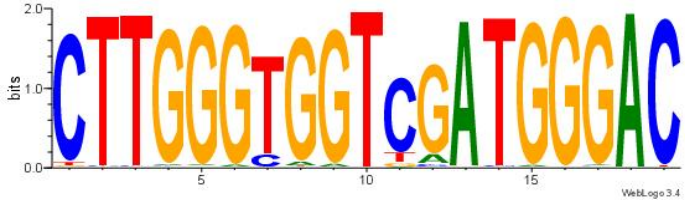

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.122512

Alignment:
TGTGTGTGTGTKTGTGTGT
CTATTGTGAATARTGCTGC

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

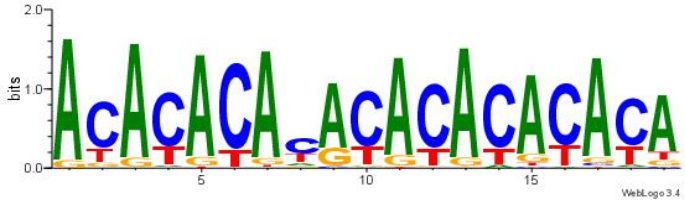

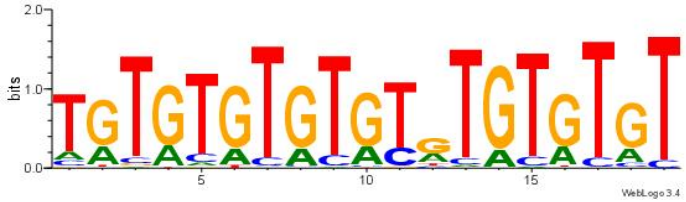

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.123436

Alignment:

```
GCACATGTAYCCYAGAACTT
GCAGCAMTATTCACAATAG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

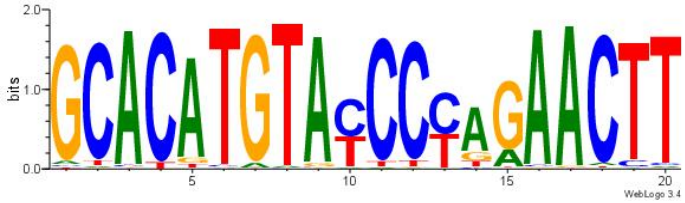

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

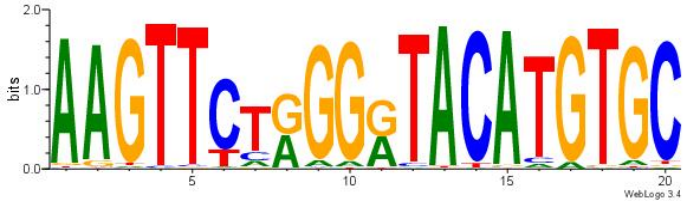

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.123451

Alignment:

```
AAAATCACAAGCATTCCTAT
-CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

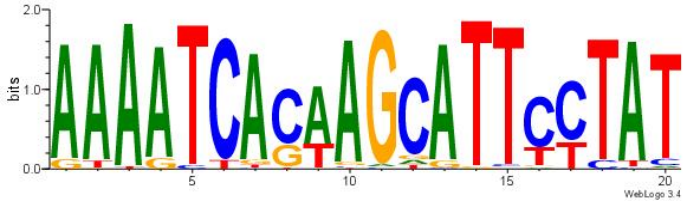

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

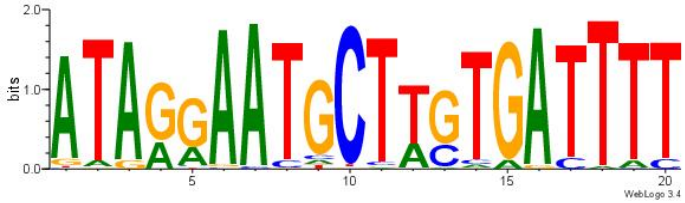

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.123464

Alignment:
GCTGGAGTGCAGTGGCRYGA
-CTATTGTGAATARTGCTGC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

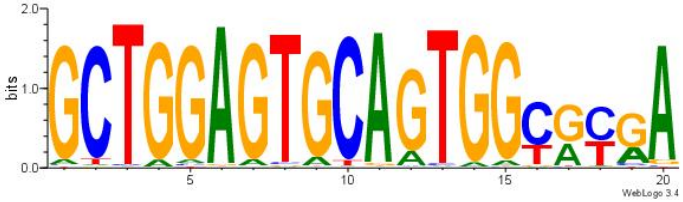

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

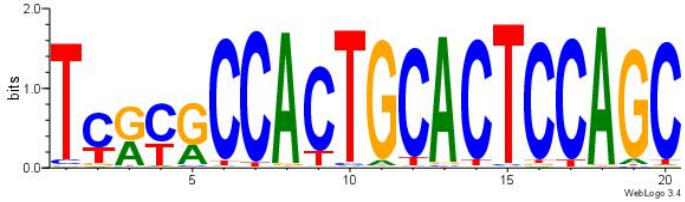

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.125063

Alignment:
TCCAAATGGGAGAAATTGGC
-CTATTGTGAATARTGCTGC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

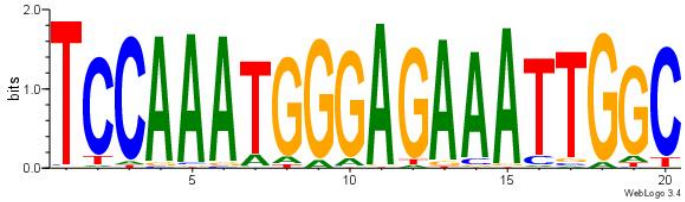

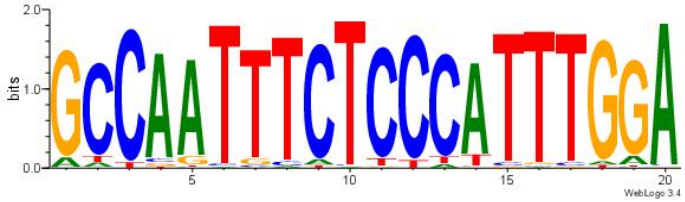

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125506

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-GCAGCAMTATTCACAATAG
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

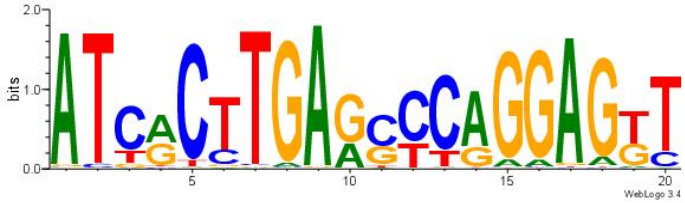

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

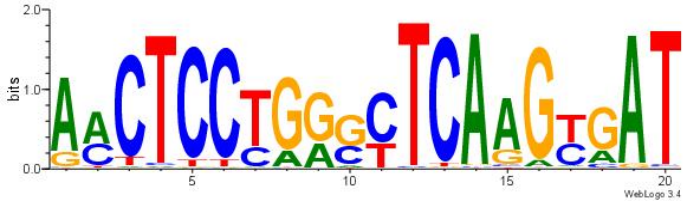

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.126654

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

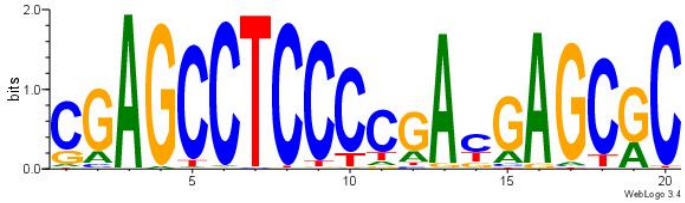

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

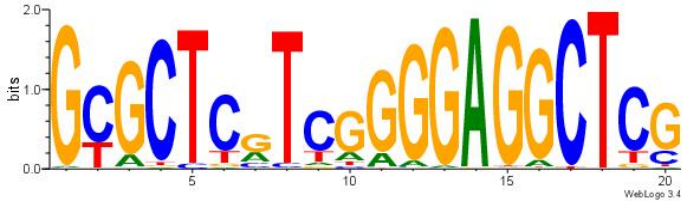

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.12677

Alignment:
CCCATGCAAGTCYRAAATCC
-GCAGCAMTATTCACAATAG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

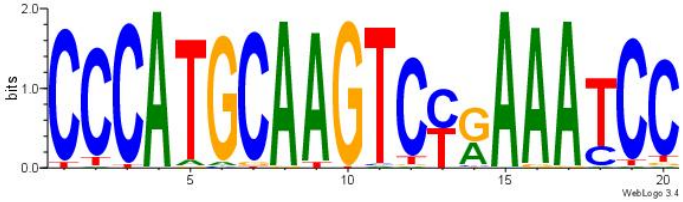

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

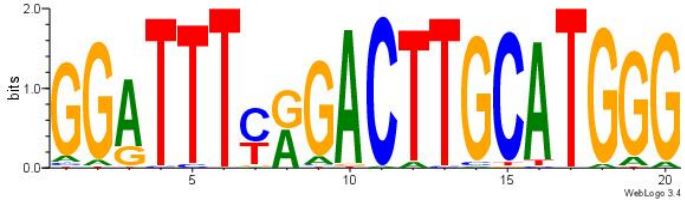

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.12728

Alignment:
GAAACTGCTTTGTGATGTGT
GCAGCAMTATTCACAATAG-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

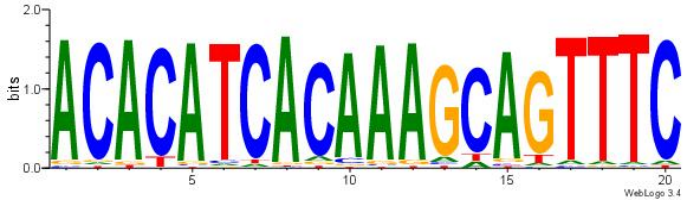

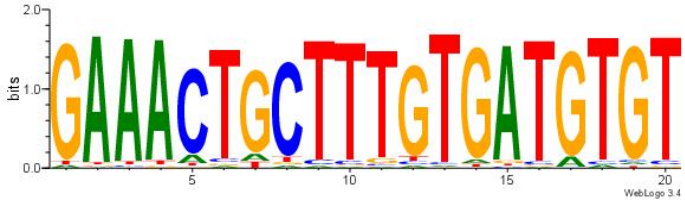

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127556

Alignment:

```
AGTAGGTGCTCARTAAATRB
-GCAGCAMTATTCACAATAG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

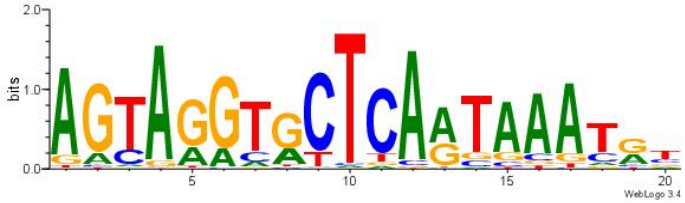

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

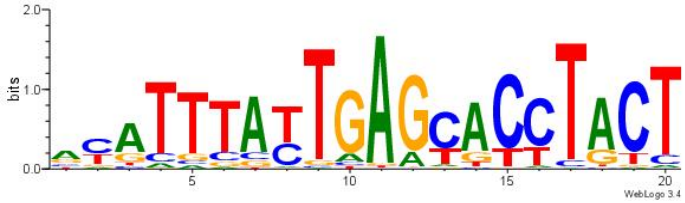

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128235

Alignment:

```
CTGGGCRACAGAGYRAGACY
CTATTGTGAATARTGCTGC-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

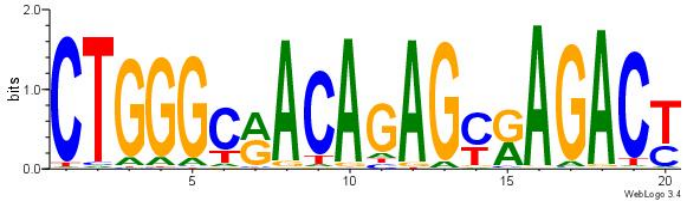

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

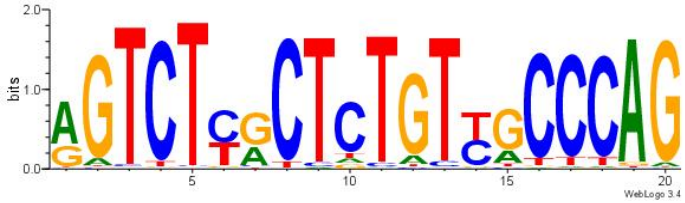

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.128575

Alignment:
ACCTGGAAAATCGGGTCACT
CTATTGTGAATARTGCTGC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

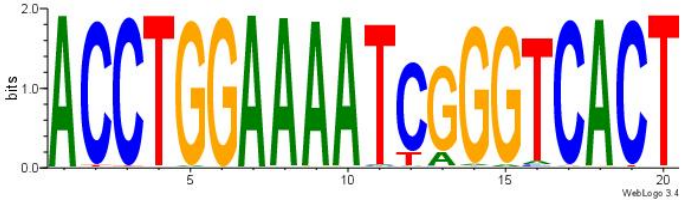

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

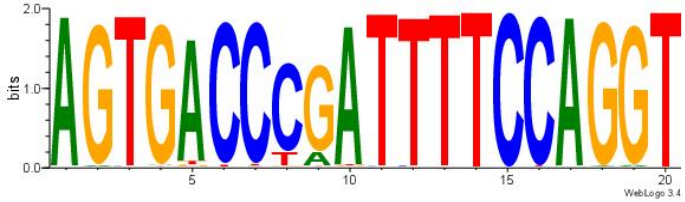

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.129601

Alignment:
AAGTCCAAGATCAAGGTGYY
CTATTGTGAATARTGCTGC-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

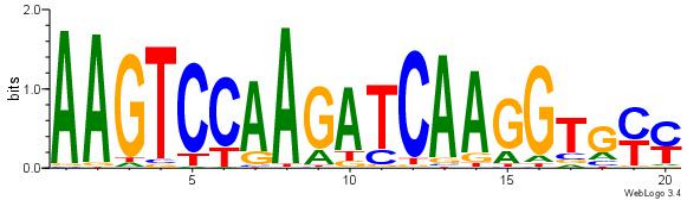

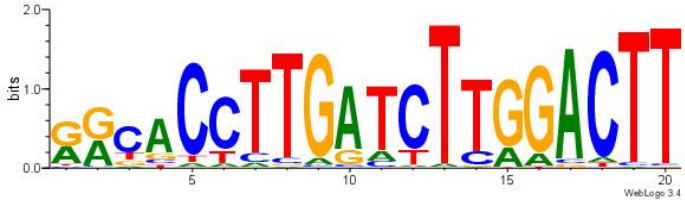

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130487

Alignment:

```
GCAAAKGACATGATYTCATT
-CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

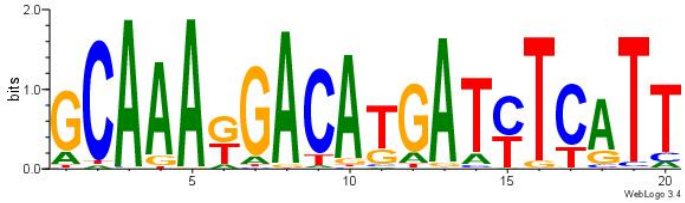

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

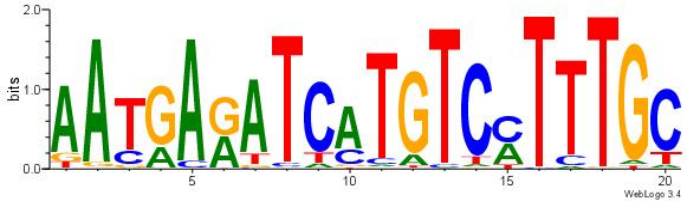

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130717

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

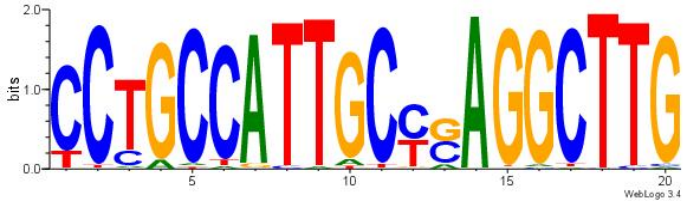

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

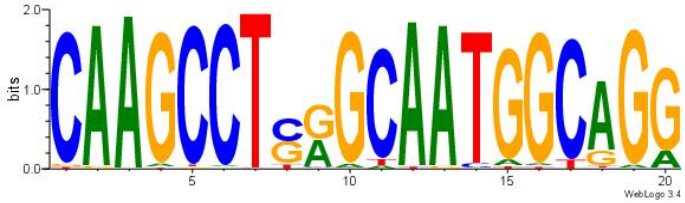

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.130834

Alignment:
TWTACCTATGTAACAAACCT
-GCAGCAMTATTCACAATAG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

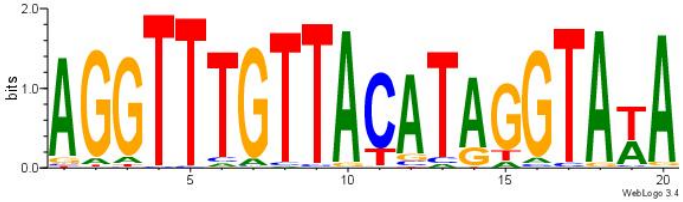

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

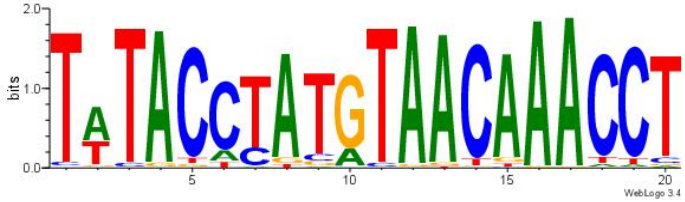

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.130921

Alignment:
GGAGCCGGCTCCCTCAGCTT
GCAGCAMTATTCACAATAG-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

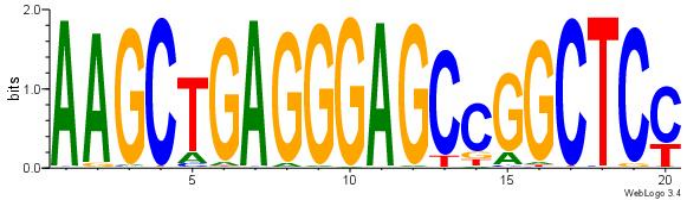

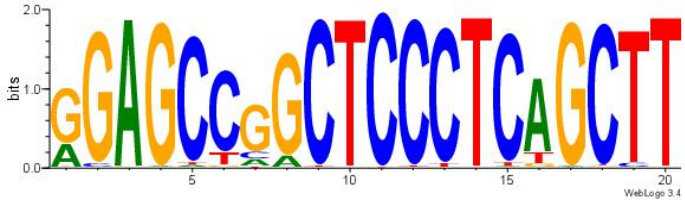

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131699

Alignment:

```
GAATCCTGGGACAGCCTGT
CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

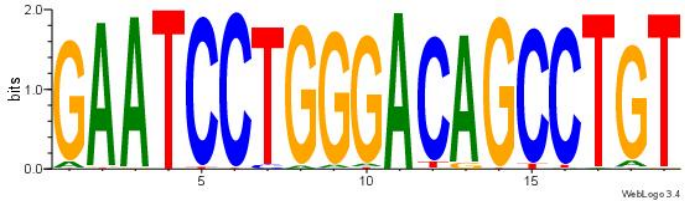

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

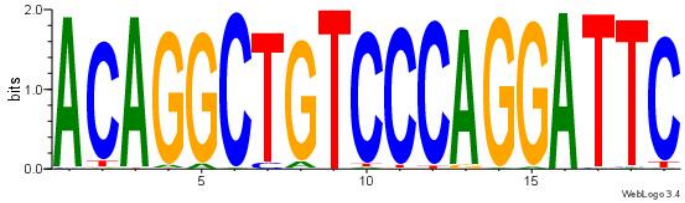

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133143

Alignment:

```
TTMGTCCCAGAGGGGCACC
CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

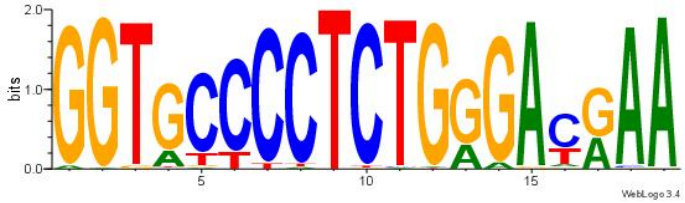

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

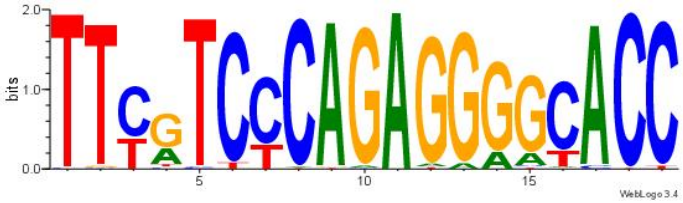

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.133154

Alignment:
MTCCTCCAGACCCCAGAATG
-GCAGCAMTATTCACAATAG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

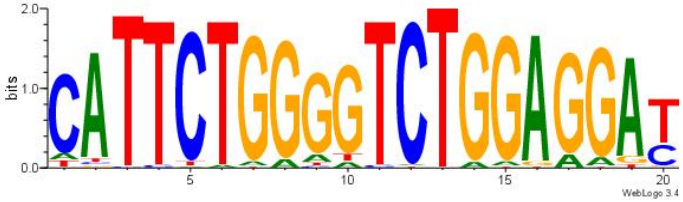

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

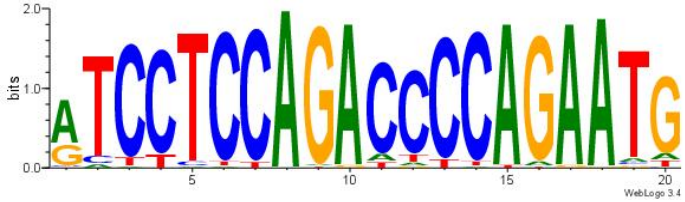

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.133915

Alignment:
AGATGCCAGCCAGAGCTCT
CTATTGTGAATARTGCTGC

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

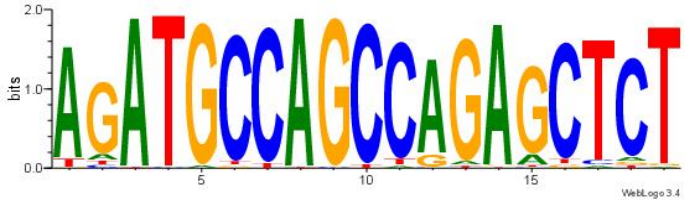

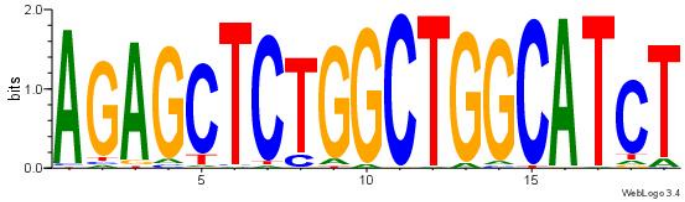

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.133941

Alignment:

```
CTGGCCCTCAATGGTTAAAC
-CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

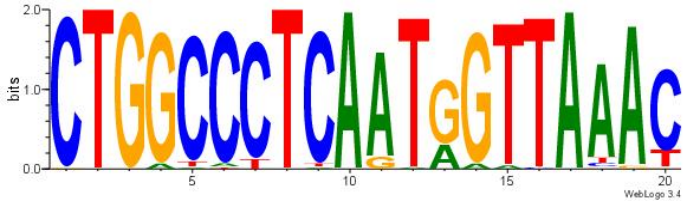

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

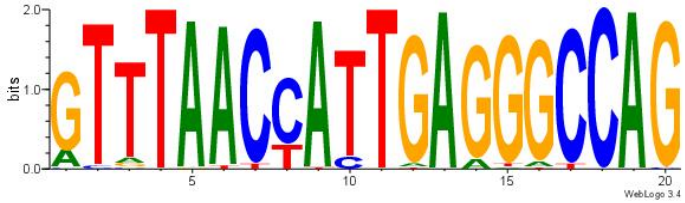

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.134048

Alignment:

```
TAAAAGACTACAWATTGGGT
-GCAGCAMTATTCACAATAG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

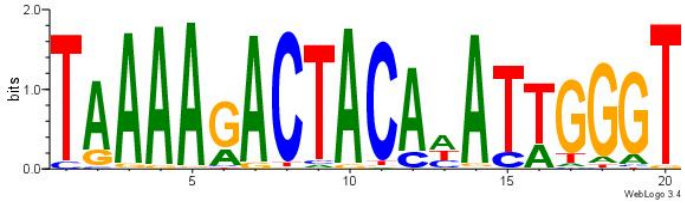

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

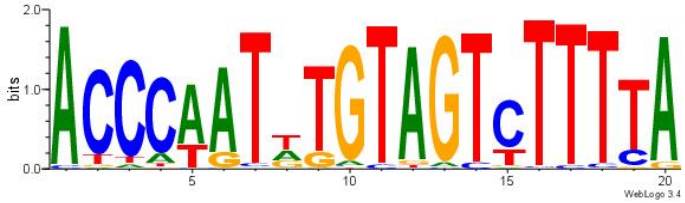

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.134488

Alignment:
GAGAGAGAGAGAGAGAGAGA
-GCAGCAMTATTCACAATAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

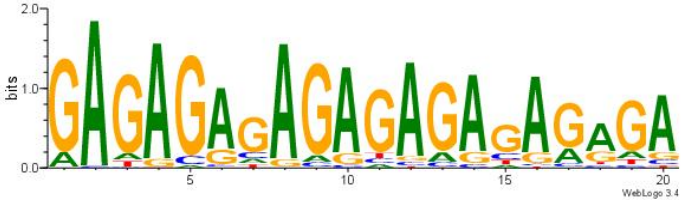

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

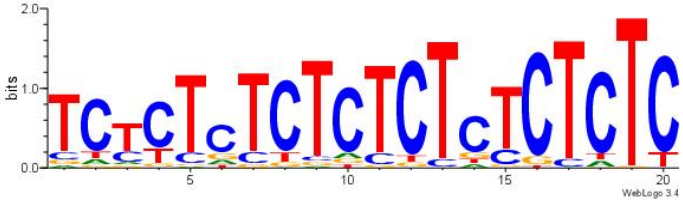

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.134589

Alignment:
AAAMAMMKMATGTTCTCACT
-CTATTGTGAATARTGCTGC

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

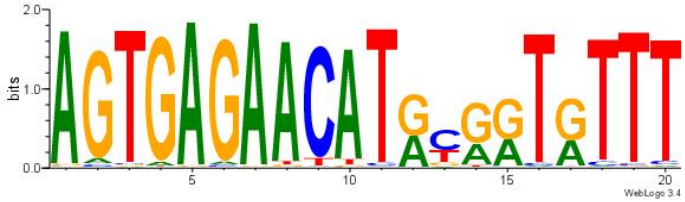

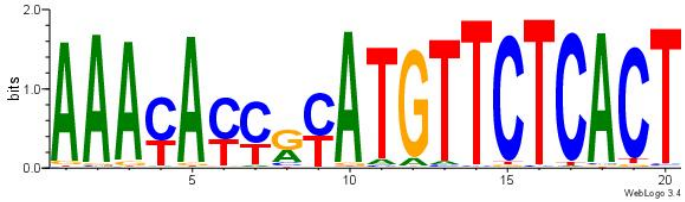

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135539

Alignment:

```
TAGATAATAGCTCCAGCTTT
-CTATTGTGAATARTGCTGC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

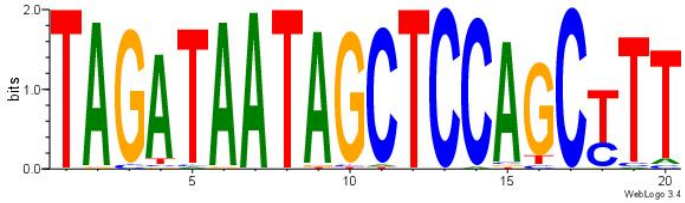

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

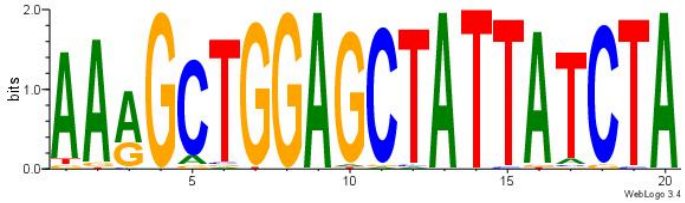

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.135862

Alignment:

```
TACCTGAGACTGGGTAATTT
-GCAGCAMTATTCACAATAG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

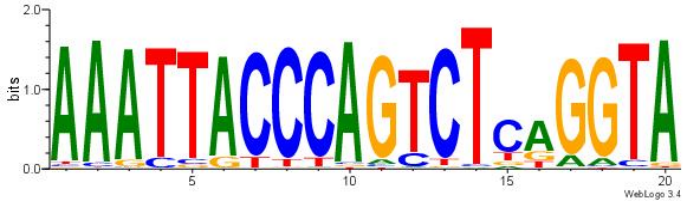

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

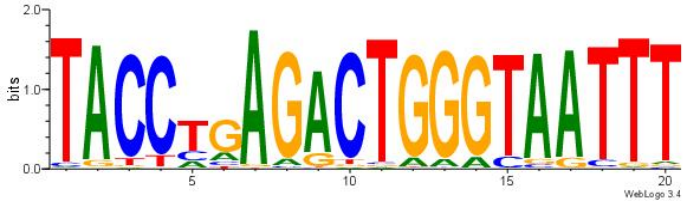

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.136836

Alignment:
AGAAATCGAGCRCAGCGCCG
CTATTGTGAATARTGCTGC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

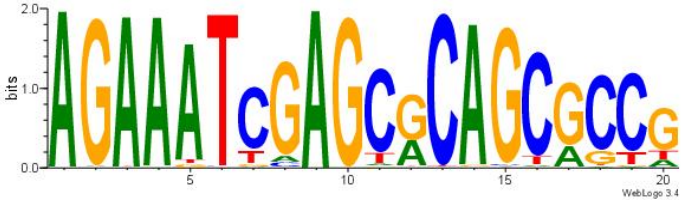

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

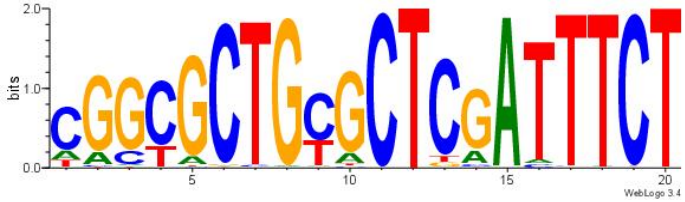

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137116

Alignment:
ACATCMTCTGAAATCTAGG
CTATTGTGAATARTGCTGC

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

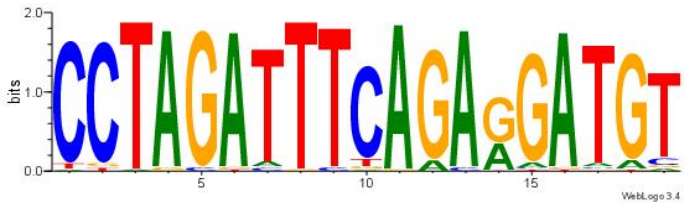

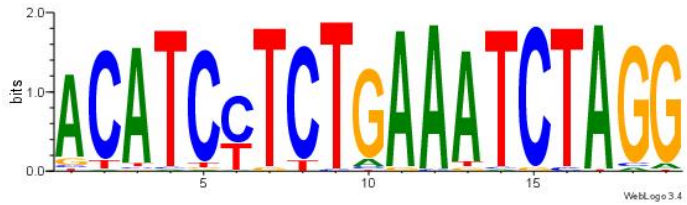

Dataset #: 1 **Motif ID: 71** **Motif name: Motif 71**

Original motif Consensus sequence: AGCACTTTG

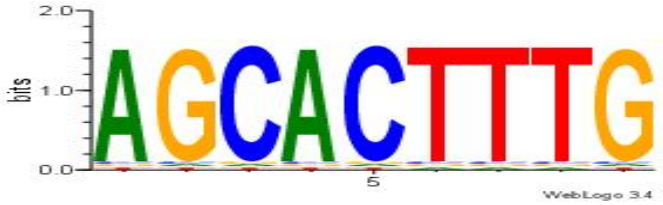

Reverse complement motif Consensus sequence: CAAAGTGCT

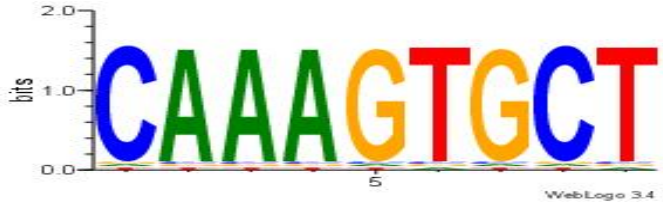

Best Matches for Motif ID 71 (Highest to Lowest)

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.039262

Alignment:

```
AGCAGYTTGGAAACACT
AGCACTTTG--------
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

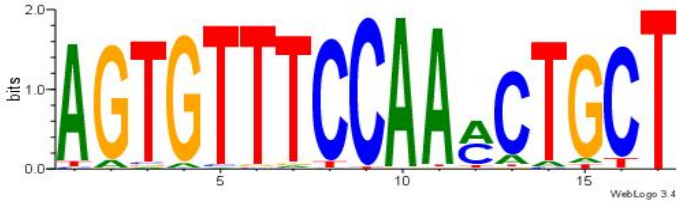

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

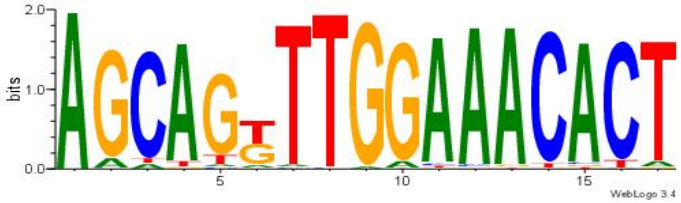

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0420544

Alignment:

```
CAAACTGCAAG
CAAAGTGCT--
```

Original motif Consensus sequence: CAAACTGCAAG

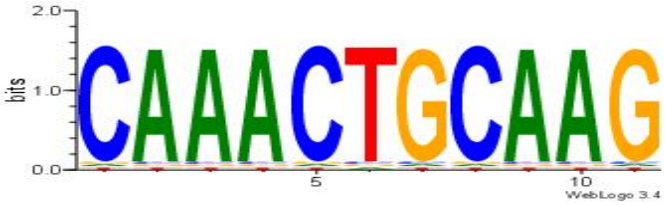

Reverse complement motif Consensus sequence: CTTGCAGTTTG

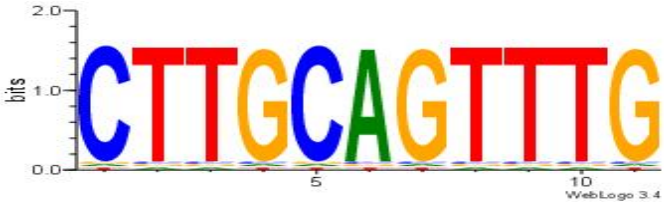

Dataset #:	1
Motif ID:	134
Motif name:	Motif 134
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0420544

Alignment:

```
CAAACTGCA
CAAAGTGCT
```

Original motif Consensus sequence: CAAACTGCA

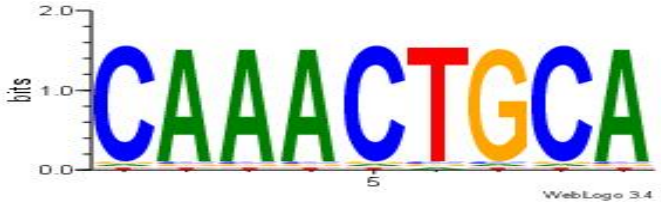

Reverse complement motif Consensus sequence: TGCAGTTTG

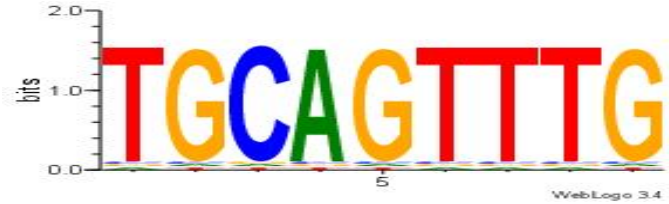

Dataset #:	1
Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0420544

Alignment:
CTCAGACTGCT
--CAAAGTGCT

Original motif Consensus sequence: AGCAGTCTGAG

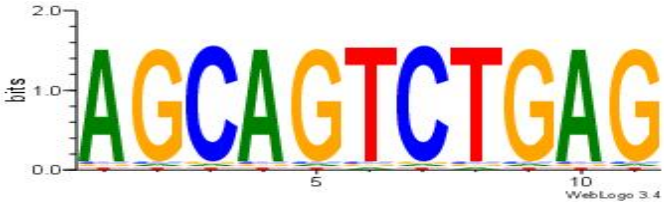

Reverse complement motif Consensus sequence: CTCAGACTGCT

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 9
Similarity score: 0.0501263

Alignment:
GAAACTGCTTTGTGATGTGT
CAAAGTGCT----------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

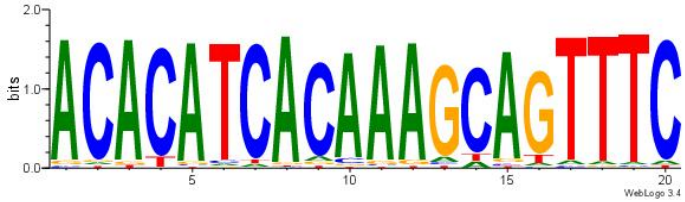

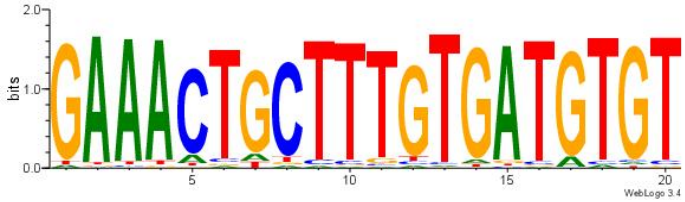

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0513335

Alignment:

```
TCAATGGGCTCCCAAATG
-CAAAGTGCT--------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

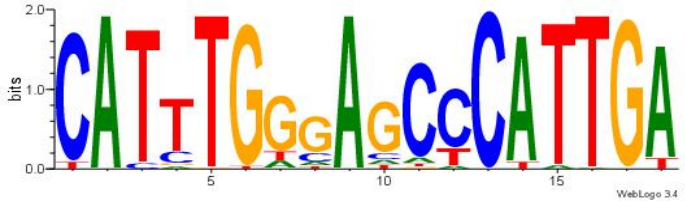

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

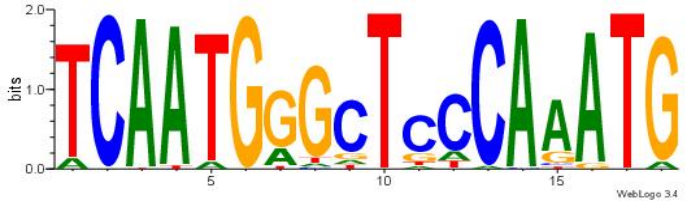

Dataset #:	1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0519557

Alignment:

```
CAAAGTCTTAACTCATT
CAAAGTGCT--------
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

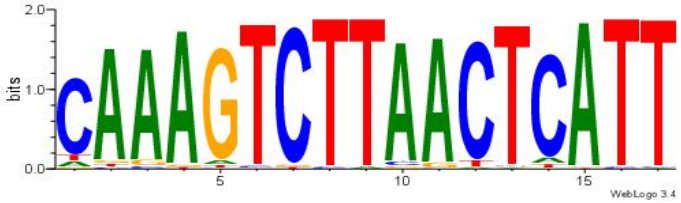

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0550113

Alignment:
GGGCTCCCACAGTGCAGCGG
-------CAAAGTGCT----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

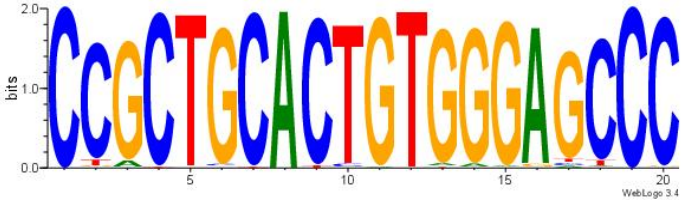

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

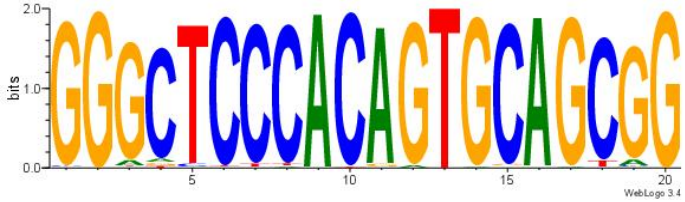

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 12
Number of overlap: 9
Similarity score: 0.0604828

Alignment:
AAGTCCAAGATCAAGGTGYY
-----------CAAAGTGCT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

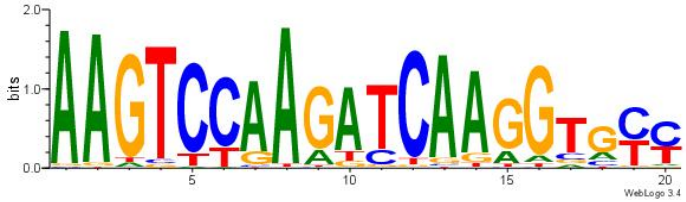

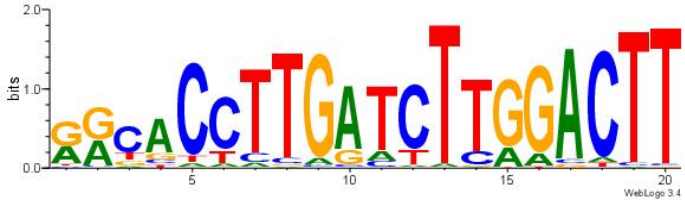

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0639384

Alignment:

```
CTATTGTGAATARTGCTGC
--CAAAGTGCT--------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

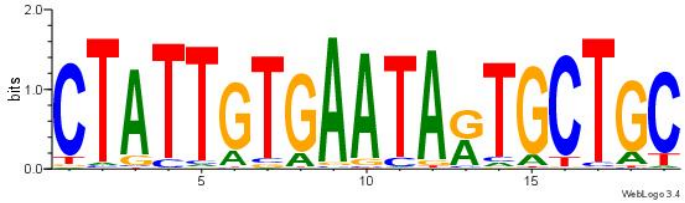

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

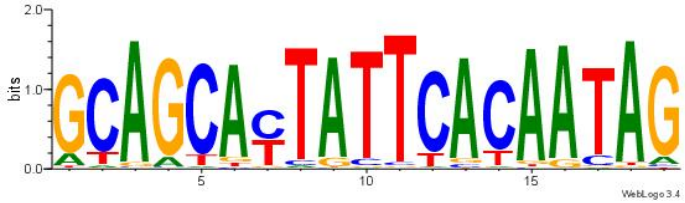

Dataset #: 1

Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.066974

Alignment:

```
CCATGTGSTCCC
CAAAGTGCT---
```

Original motif Consensus sequence: CCATGTGSTCCC

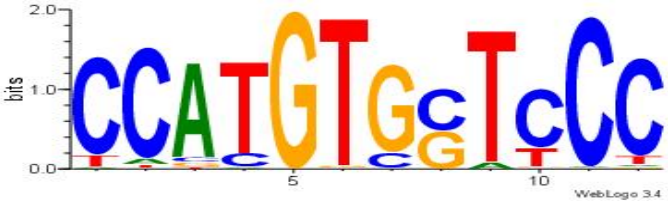

Reverse complement motif Consensus sequence: GGGASCACATGG

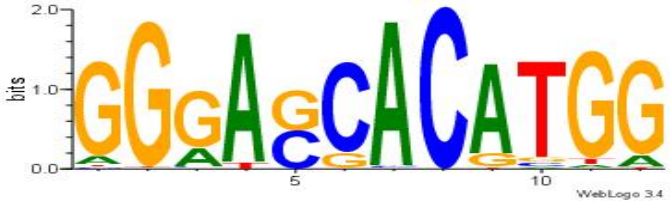

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0673069

Alignment:
CAGACTGCCTCCTCAA
CAAAGTGCT-------

Original motif Consensus sequence: CAGACTGCCTCCTCAA

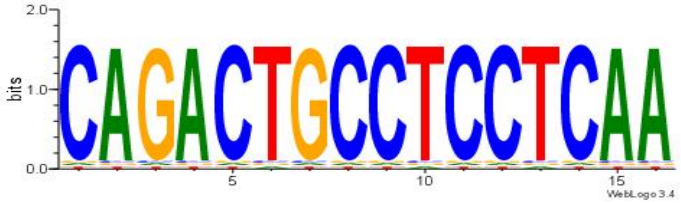

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

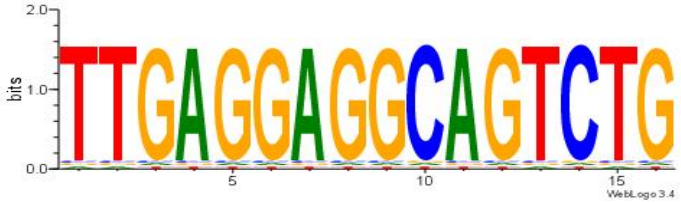

Dataset #:	1
Motif ID:	360
Motif name:	Motif 360
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0673069

Alignment:
CAATGGGGTG
CAAAGTGCT-

Original motif Consensus sequence: CAATGGGGTG

Reverse complement motif Consensus sequence: CACCCCATTG

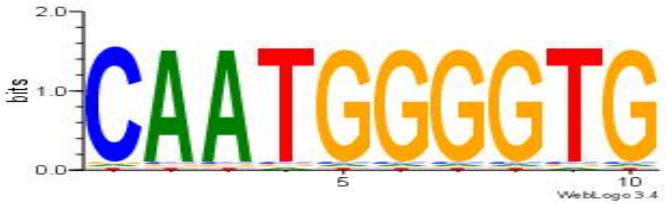

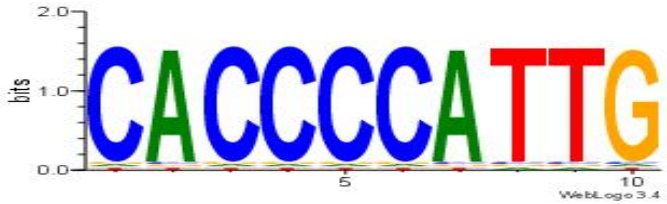

Dataset #:	1
Motif ID:	228
Motif name:	Motif 228
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0673069

Alignment:

```
AGCTACTTG
AGCACTTTG
```

Original motif Consensus sequence: AGCTACTTG

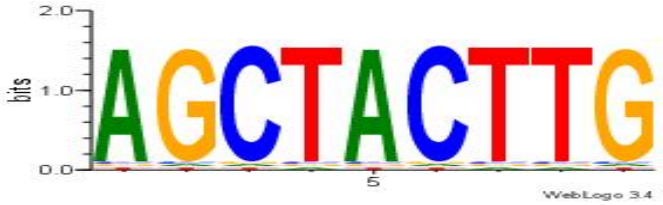

Reverse complement motif Consensus sequence: CAAGTAGCT

Dataset #:	1
Motif ID:	82

Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.069192

Alignment:

```
GCTTAGCACCYGGGCCAGC
----AGCACTTTG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

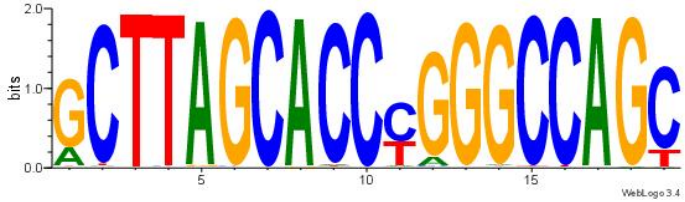

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

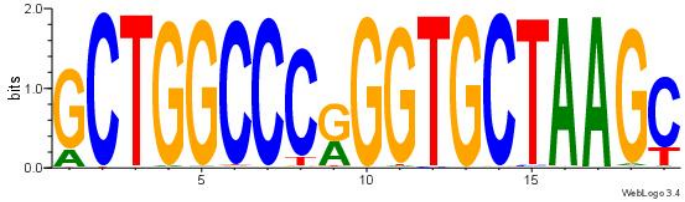

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0707989

Alignment:
GCAWSTGCAAAGGCCCT
-------CAAAGTGCT-

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

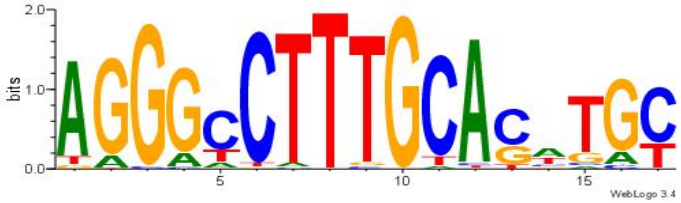

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

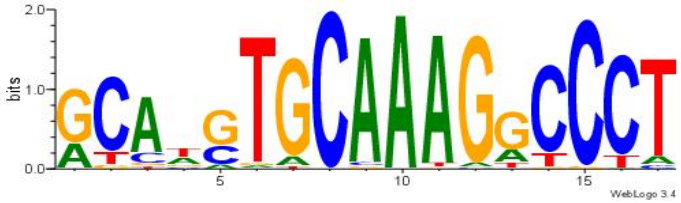

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0727809

Alignment:
ATGGCCTATGACYGSTTTG
----------AGCACTTTG

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

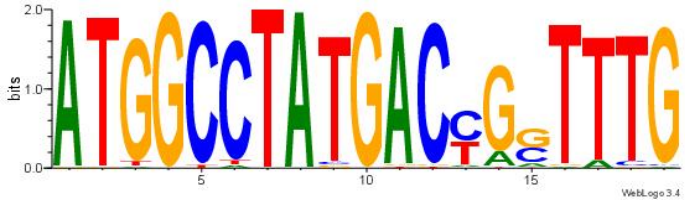

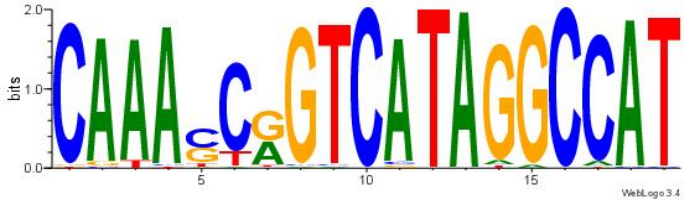

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0730236

Alignment:

```
ATCATTCTTATGCCTTTG
---------AGCACTTTG
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

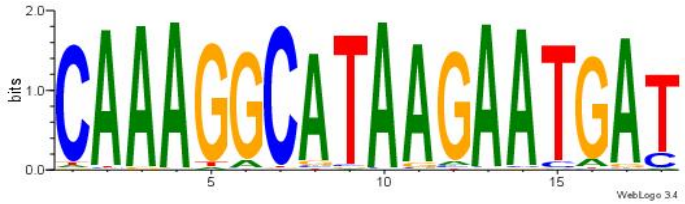

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

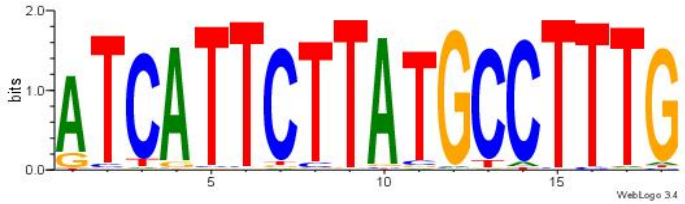

Dataset #: 1

Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.073693

Alignment:

```
GAGAACGTAG
-AGCACTTTG
```

Original motif Consensus sequence: CTACGTTCTC

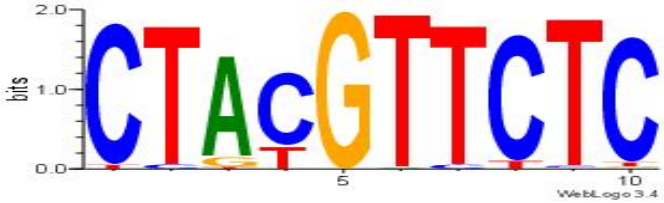

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.073995

Alignment:
CTCACAGAGTTAAA
--CAAAGTGCT---

Original motif Consensus sequence: CTCACAGAGTTAAA

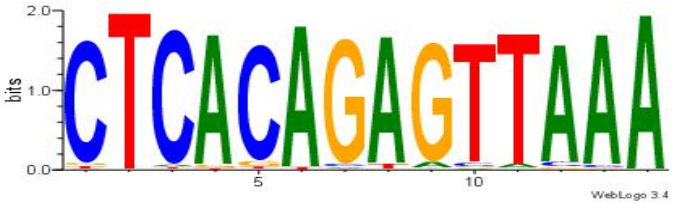

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

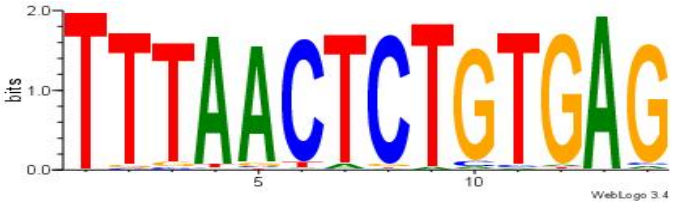

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0741185

Alignment:
TGTCCATGTGTTCTC
---CAAAGTGCT---

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

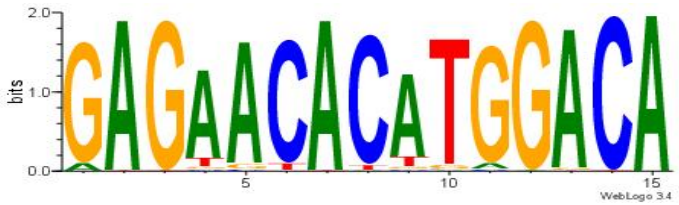

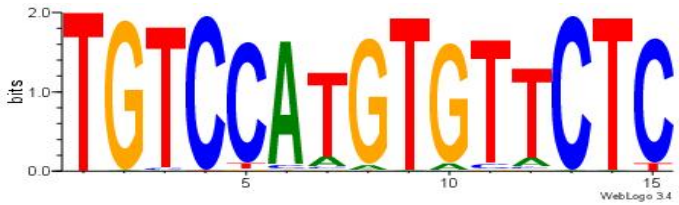

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.074237

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-----CAAAGTGCT------
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

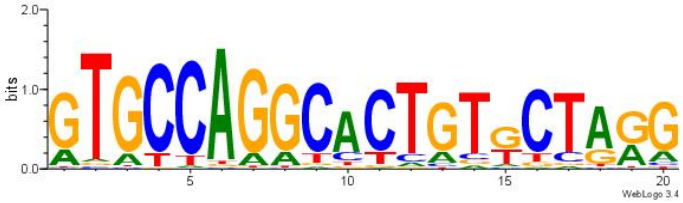

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

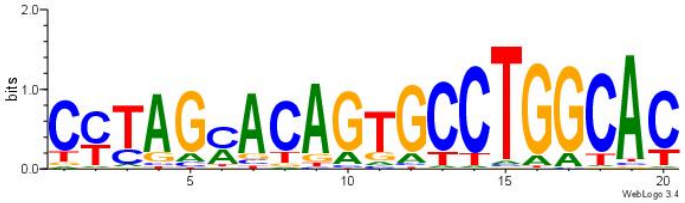

Dataset #:	1

Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0754115

Alignment:

```
TGGACCTTGAG
--AGCACTTTG
```

Original motif Consensus sequence: CTCAAGGTCCA

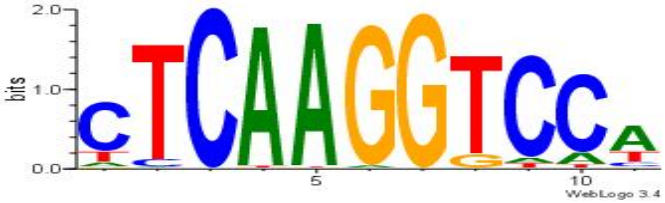

Reverse complement motif Consensus sequence: TGGACCTTGAG

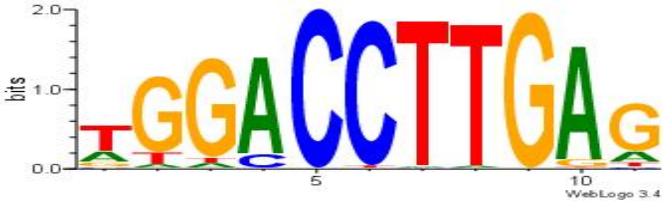

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0761247

Alignment:
AAAAGTCCACAGTCCAAAGT
-------CAAAGTGCT----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

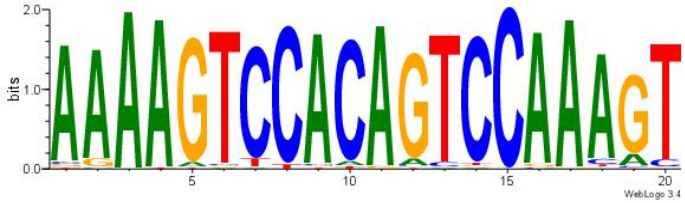

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

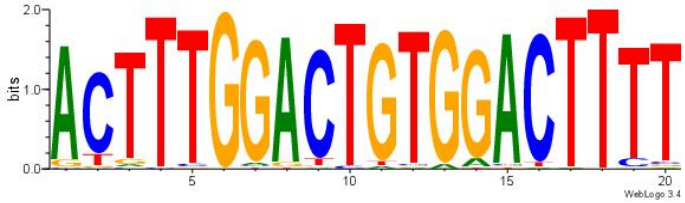

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0765498

Alignment:
GCCAATTTCTCCCATTTGGA
-CAAAGTGCT----------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

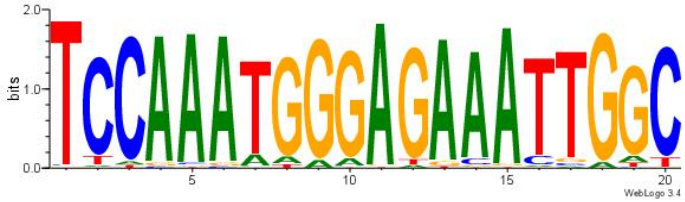

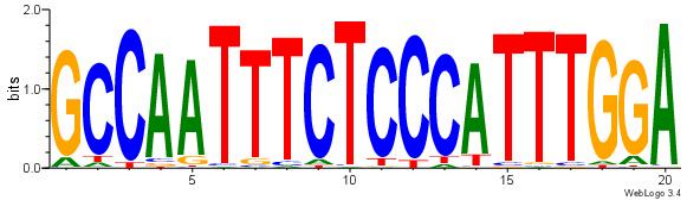

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0770602

Alignment:

```
GACAGGAGATTAACACTGAG
-----------AGCACTTTG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

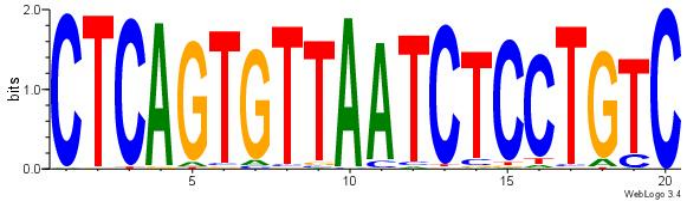

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

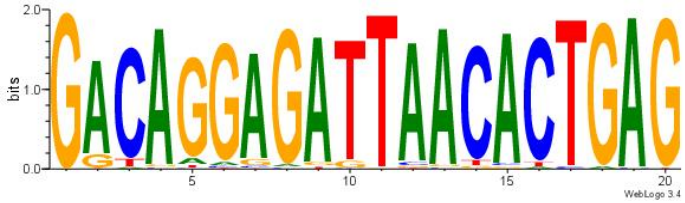

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0776054

Alignment:

```
AGATGCCAGCCAGAGCTCT
----------CAAAGTGCT
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

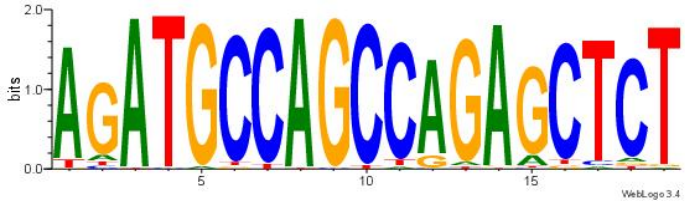

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

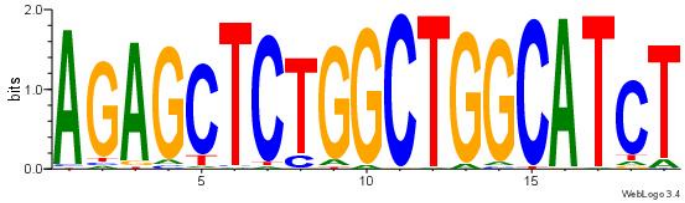

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9

Similarity score: 0.0780341

Alignment:
CCCYAATACTGCGCTTTTC
-AGCACTTTG---------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

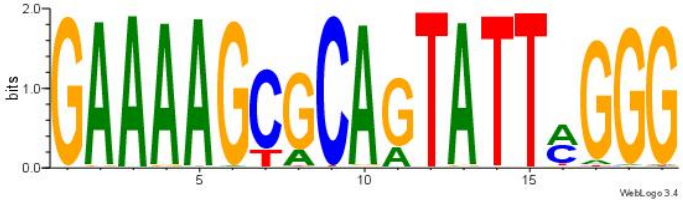

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

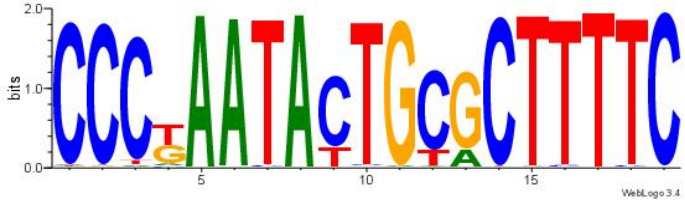

Dataset #: 1
Motif ID: 128
Motif name: Motif 128
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0782181

Alignment:
CMGCTCCGAGTGCGG
-----CAAAGTGCT-

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

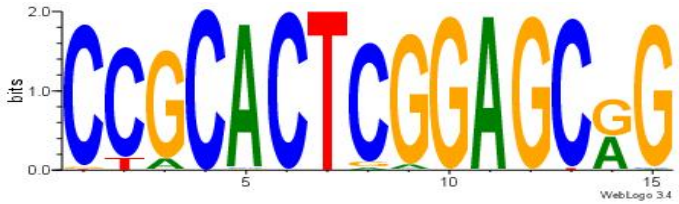

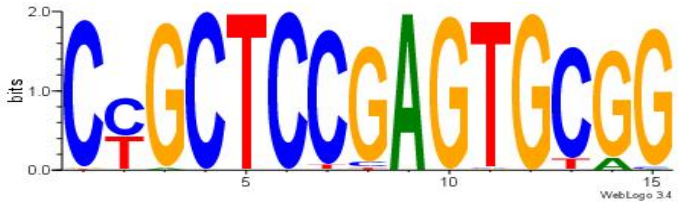

Dataset #:	1
Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0792693

Alignment:

```
CCCAAGTCCC
-CAAAGTGCT
```

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	312

Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0795951

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----------CAAAGTGCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

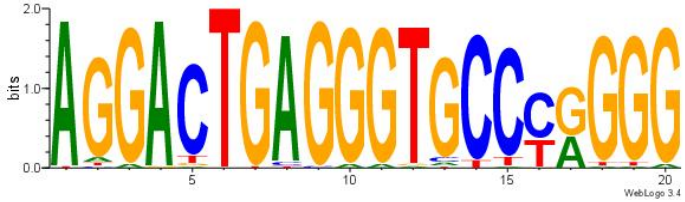

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

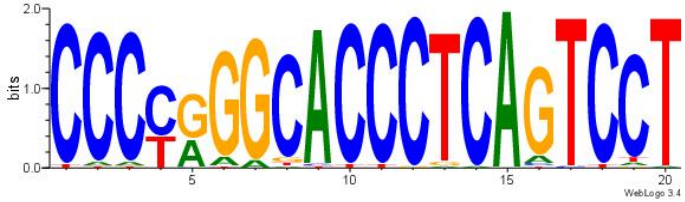

Dataset #:	1
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0801239

Alignment:
CCATGTGCGG
CAAAGTGCT-

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0804084

Alignment:
GTKTMTATMTACCACATTTT
----------AGCACTTTG-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

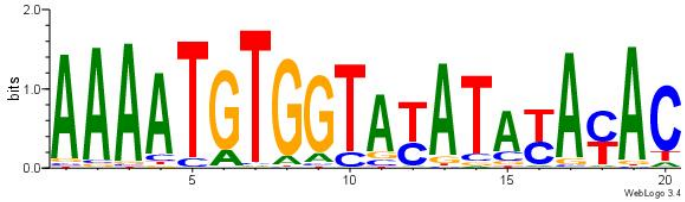

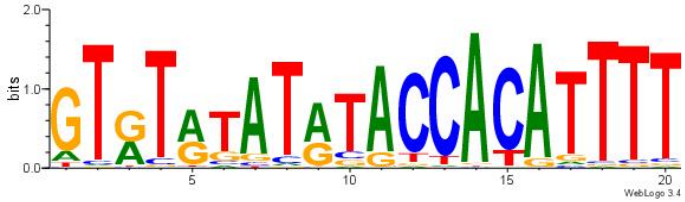

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0805201

Alignment:

```
TTTTATAGGATTTGGG
------AGCACTTTG-
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

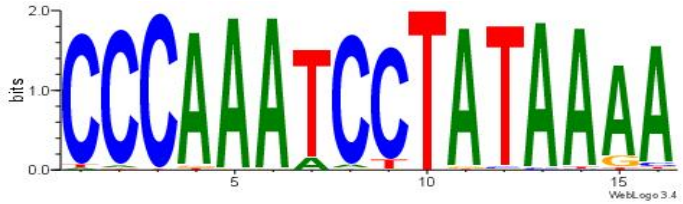

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

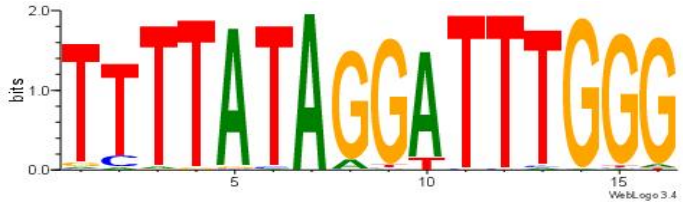

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0810323

Alignment:

```
ATAAAAACTTGCTGGTTTT
----CAAAGTGCT------
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

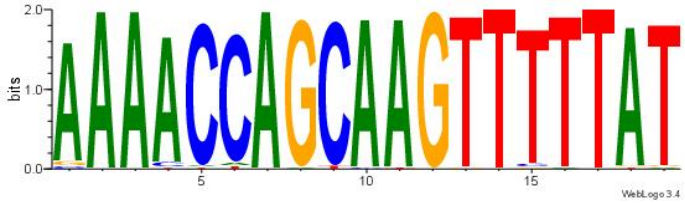

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

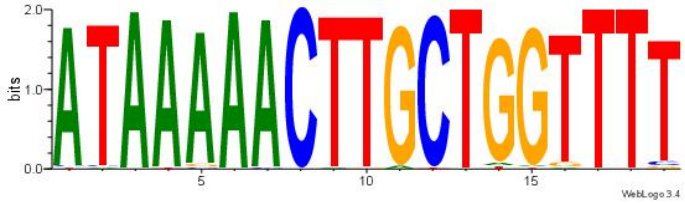

Dataset #:	1
Motif ID:	162
Motif name:	Motif 162
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0818139

Alignment:
CAAGGTCCAT
CAAAGTGCT-

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

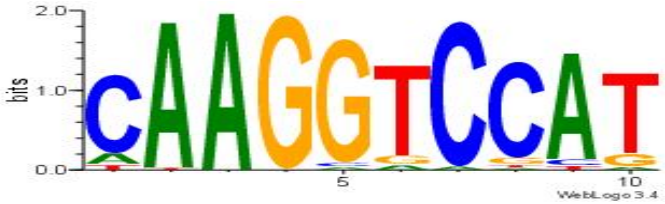

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.0820915

Alignment:
AAAGTGCCGAGAKTGCAGC
--------CAAAGTGCT--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

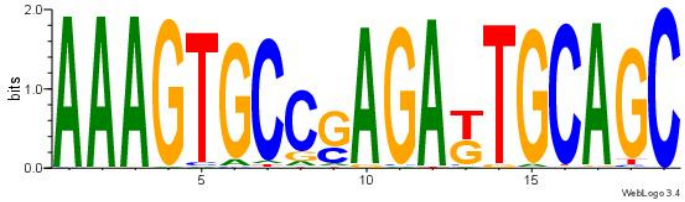

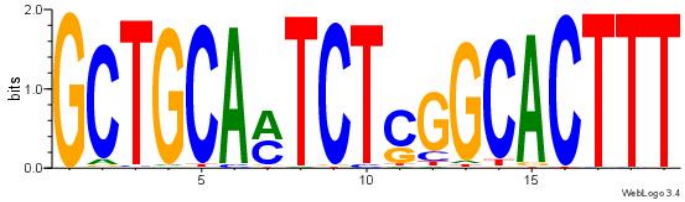

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0820985

Alignment:

```
AAGGAACAAACTCCRGACAC
------CAAAGTGCT-----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

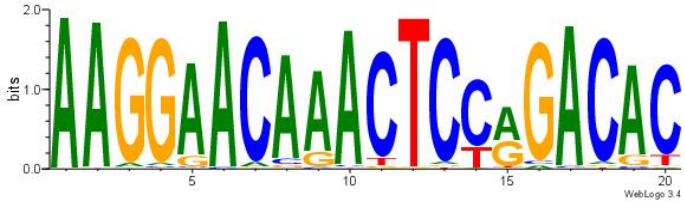

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

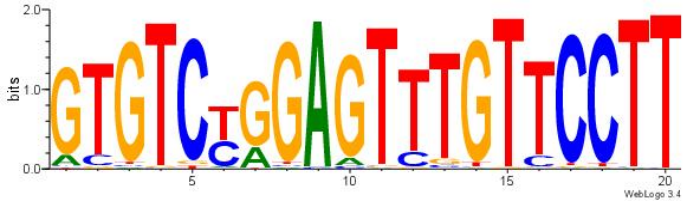

Dataset #: 1

Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0834729

Alignment:

```
CATTATGCTAARTG
CAAAGTGCT-----
```

Original motif Consensus sequence: CATTATGCTAARTG

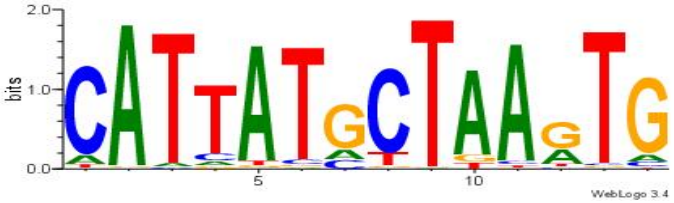

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

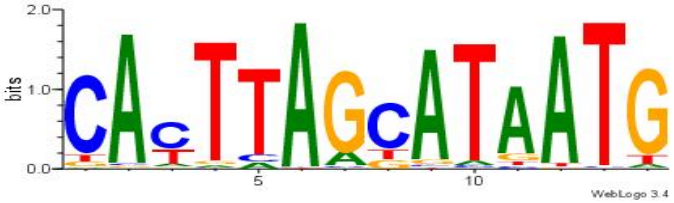

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0836729

Alignment:
AGTAGGTGCTCARTAAATRB
-CAAAGTGCT----------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

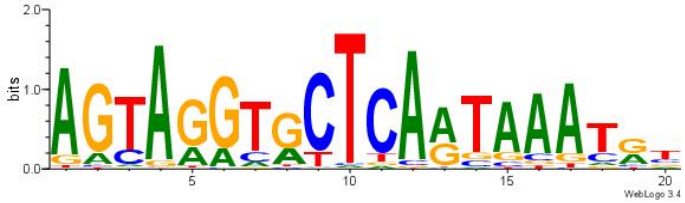

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

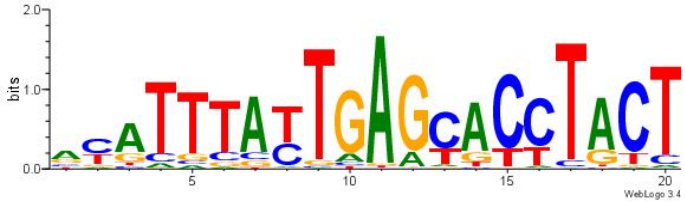

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0842833

Alignment:
ATGGACAYTTRGGTTGHTTC
---AGCACTTTG--------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

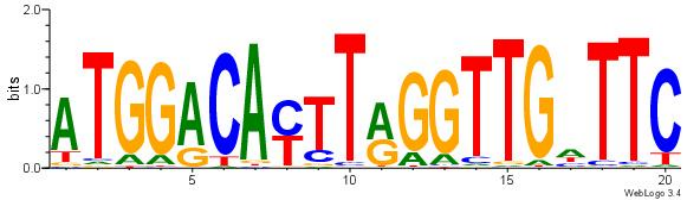

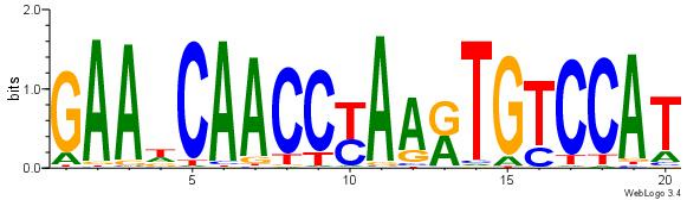

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0863494

Alignment:

```
AAAMAMMKMATGTTCTCACT
-------CAAAGTGCT----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

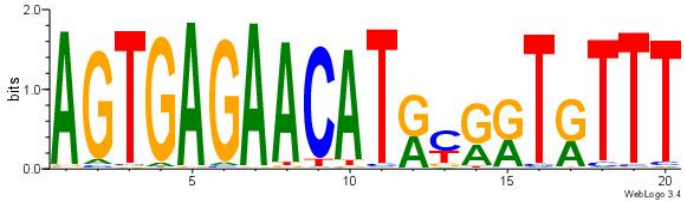

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

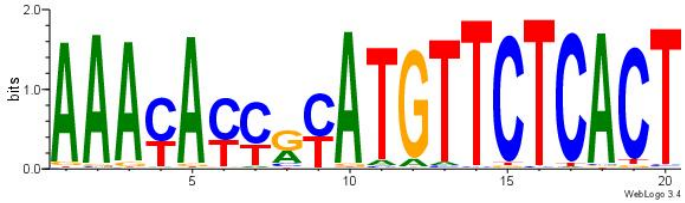

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0868836

Alignment:

```
CTGGGCRACAGAGYRAGACY
-----CAAAGTGCT------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

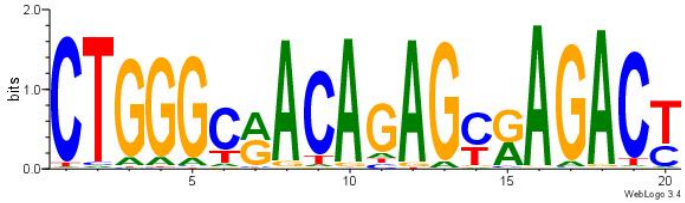

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

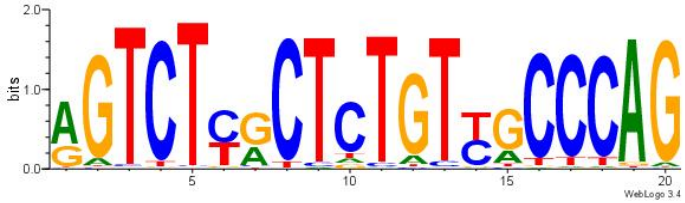

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.087856

Alignment:
AAAATCACAAGCATTCCTAT
---------AGCACTTTG--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

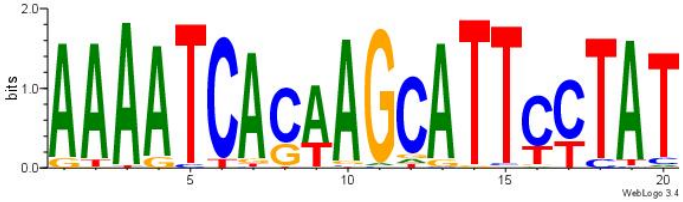

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

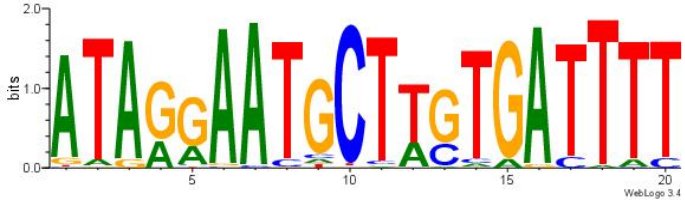

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0882439

Alignment:
AATGAKATCATGTCYTTTGC
----------AGCACTTTG-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

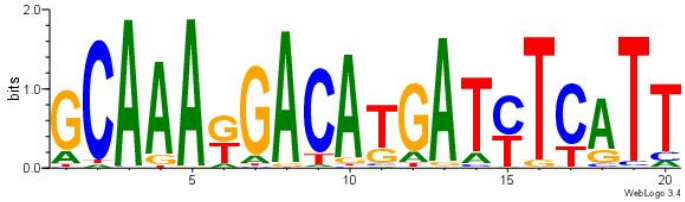

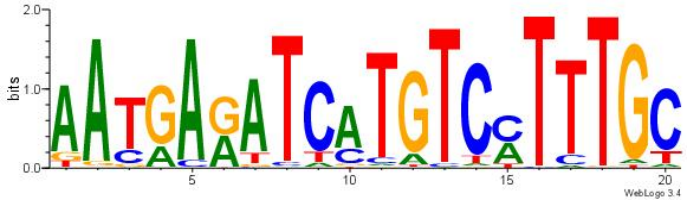

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0884275

Alignment:

```
AGAGTCTCACTCTGT
-----AGCACTTTG-
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

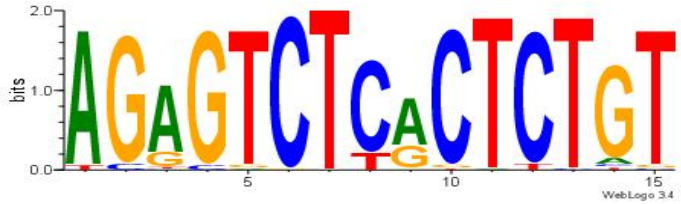

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

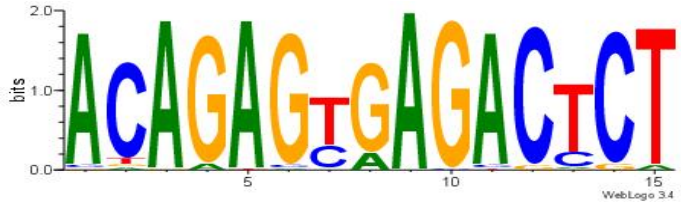

Dataset #:	1
Motif ID:	139

Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0884852

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----------CAAAGTGCT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

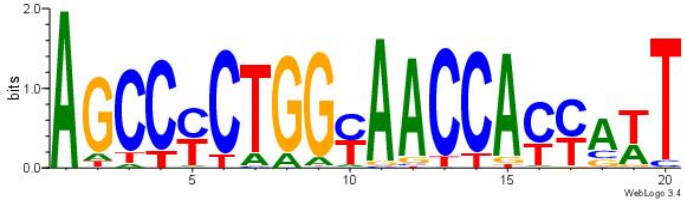

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

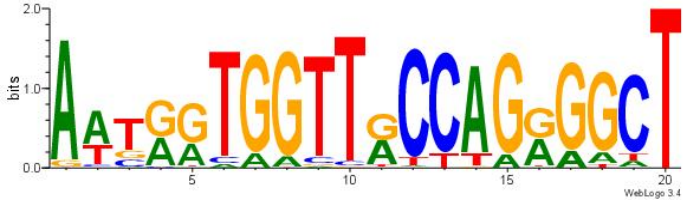

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0898504

Alignment:
ATGATCCAGCAATYCCACTH
-------AGCACTTTG----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

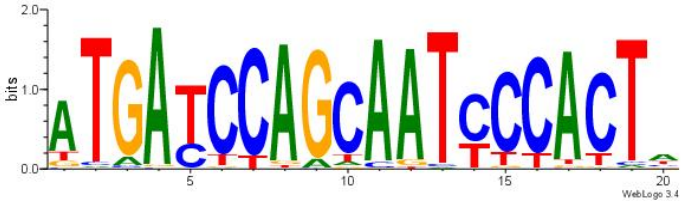

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

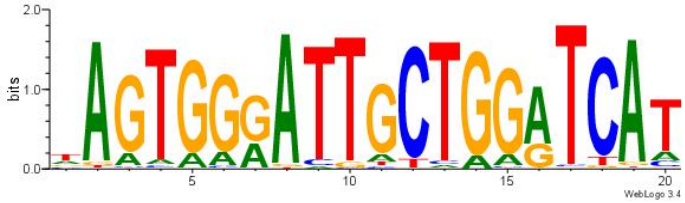

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0902117

Alignment:
CTAGACATAAAGGTTCTCCA
--------CAAAGTGCT---

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

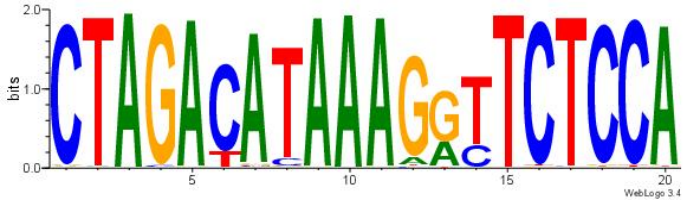

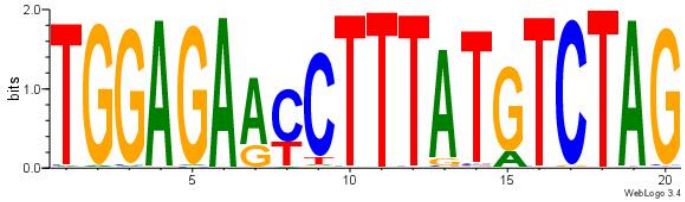

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0910972

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-----------AGCACTTTG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

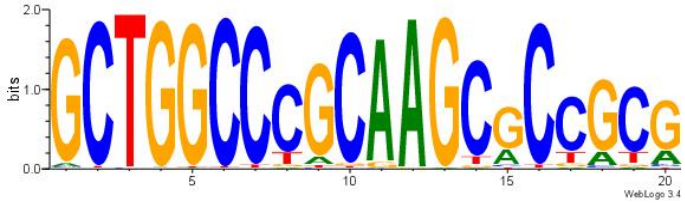

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

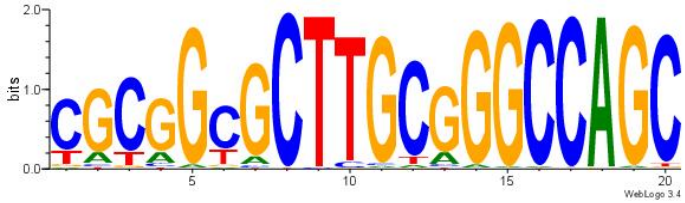

Dataset #: 1 Motif ID: 72 Motif name: Motif 72

Original motif Consensus sequence: CGCACTCCTCAGCC

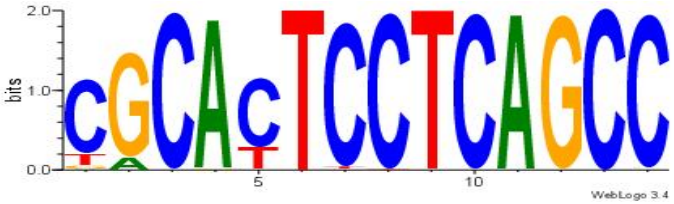

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

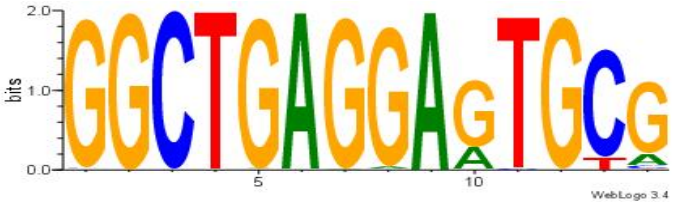

Best Matches for Motif ID 72 (Highest to Lowest)

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0631515

Alignment:

```
TACACCCTCCGCAGCC
--CGCACTCCTCAGCC
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

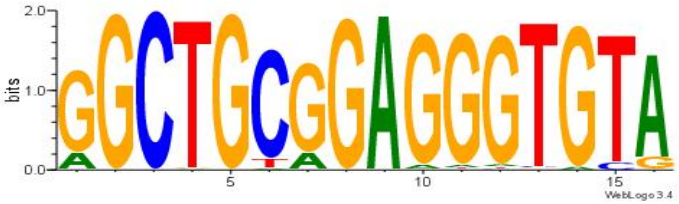

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

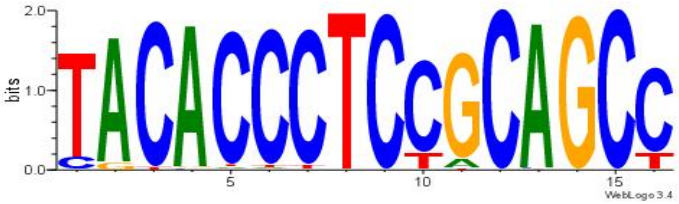

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0793425

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
CGCACTCCTCAGCC------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

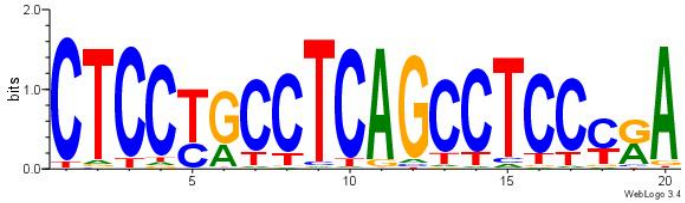

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

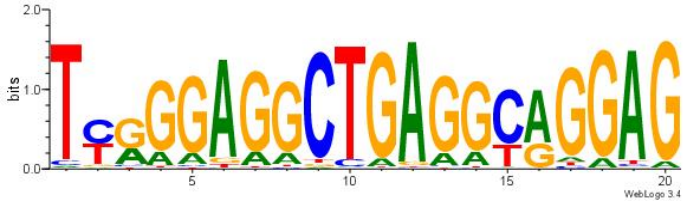

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0845425

Alignment:
CTCCTGCCTCAGCY
CGCACTCCTCAGCC

Original motif Consensus sequence: CTCCTGCCTCAGCY

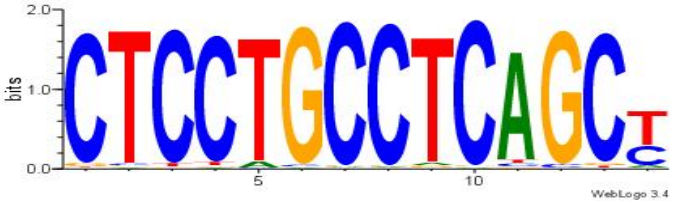

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

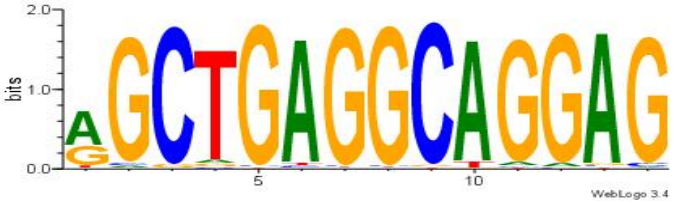

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.0925295

Alignment:
CTGGGCTCCTGAGTCTGGTG
-CGCACTCCTCAGCC-----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

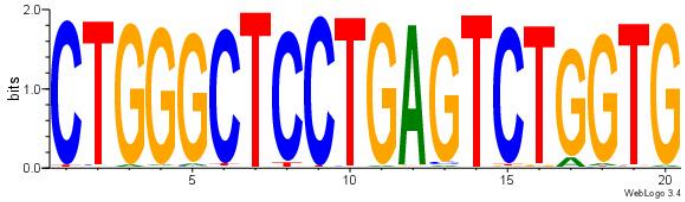

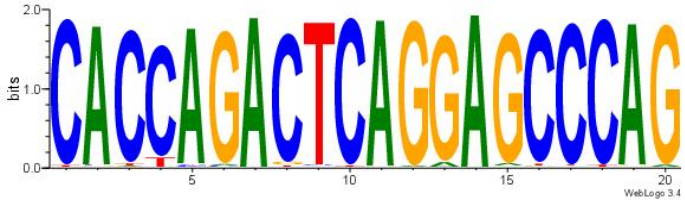

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0943803

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--GGCTGAGGAGTGCG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

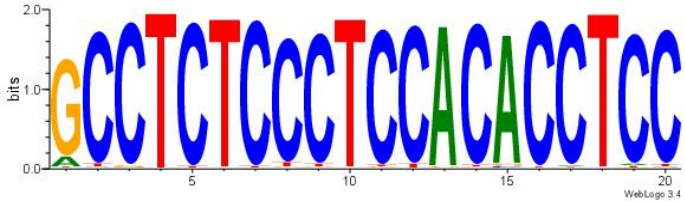

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

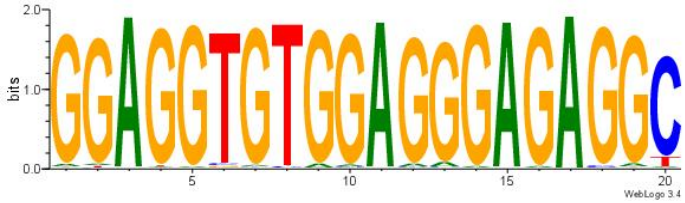

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0954286

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CGCACTCCTCAGCC-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

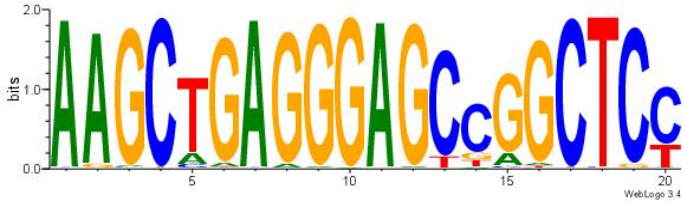

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

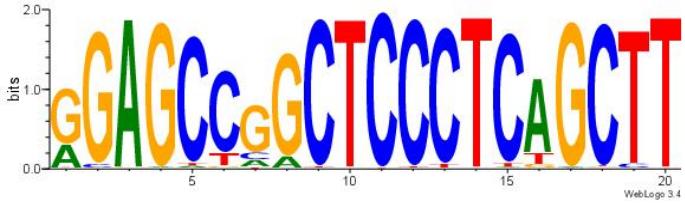

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0974785

Alignment:
KGGGCDGAGGGGCTCCT
--GGCTGAGGAGTGCG-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

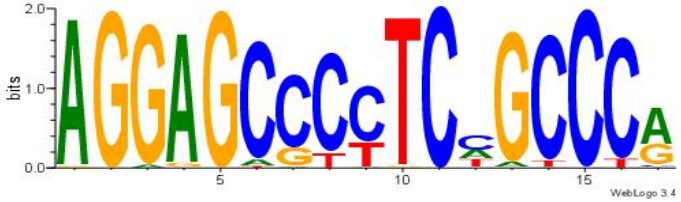

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 153
Motif name: Motif 153
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0985815

Alignment:
GGCACTCCCTAGTG
CGCACTCCTCAGCC

Original motif Consensus sequence: CACTAGGGAGTGCC

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

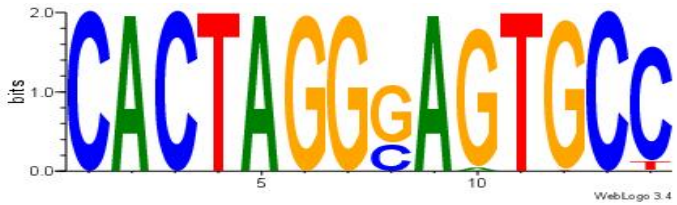

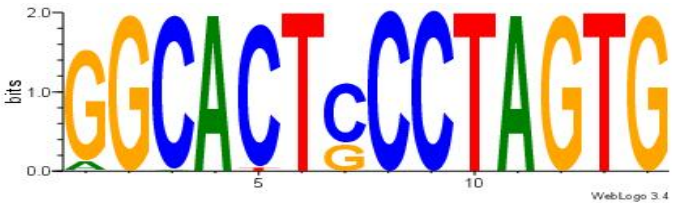

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0987014

Alignment:
ATGGAATAYTATTCAGCCAT
----CGCACTCCTCAGCC--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

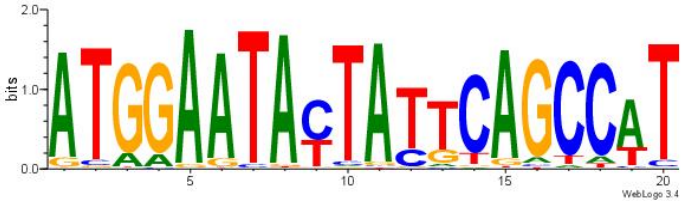

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

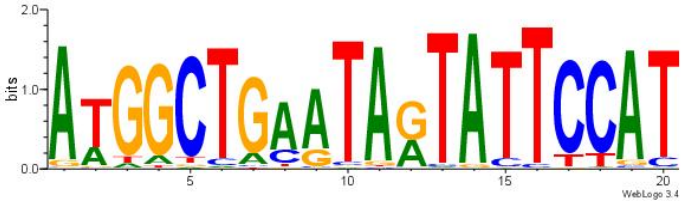

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.102626

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-GGCTGAGGAGTGCG----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

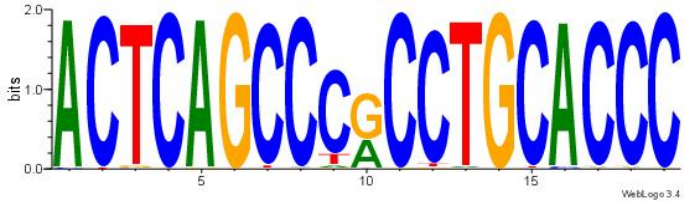

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

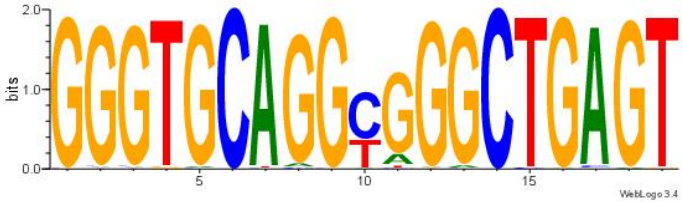

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.103257

Alignment:
AGGACTGAGGGTGCCYRGGG
--GGCTGAGGAGTGCG----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

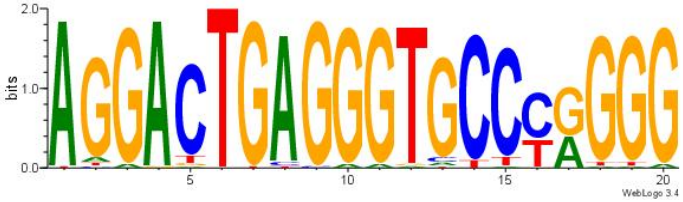

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

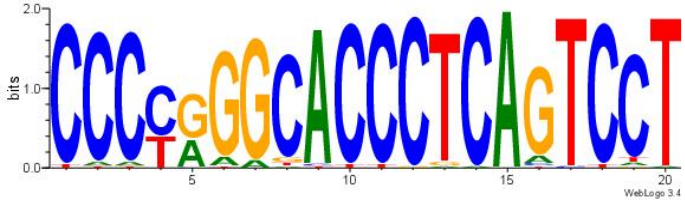

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.103293

Alignment:
AGGAGCGCCTCTKCCCGGC
-CGCACTCCTCAGCC----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

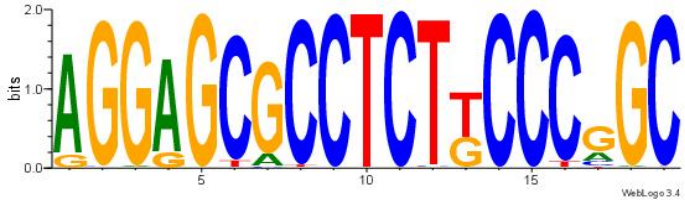

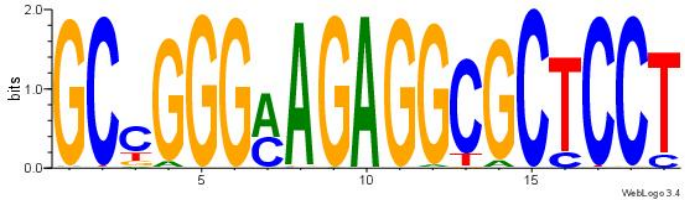

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.103533

Alignment:

```
ATCATTCTTATGCCTTTG
CGCACTCCTCAGCC----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

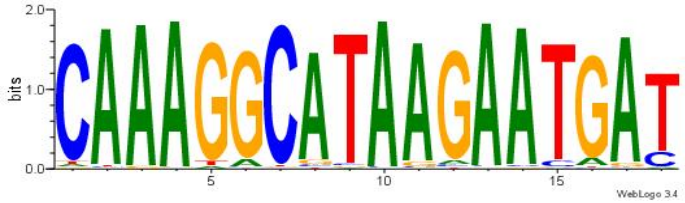

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

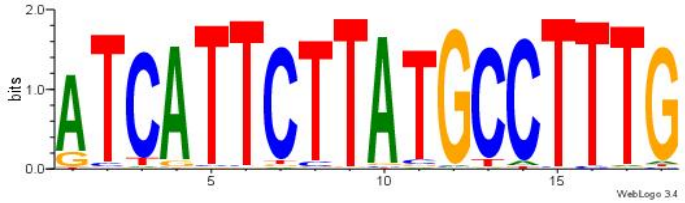

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.104208

Alignment:

```
AGGAGRCMCTCTGCCTGGC
----CGCACTCCTCAGCC-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

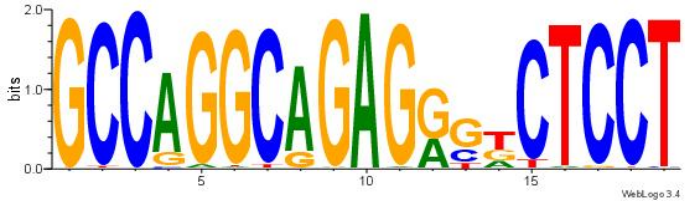

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

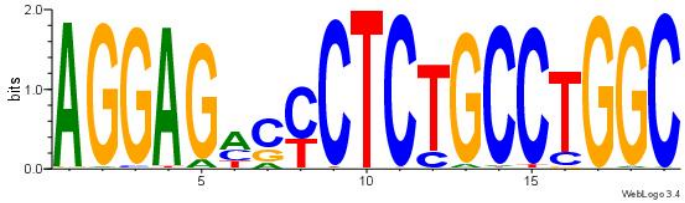

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.105719

Alignment:
CCTGCCATTGCYSAGGCTTG
---CGCACTCCTCAGCC---

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

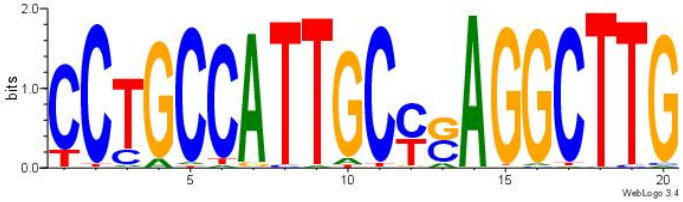

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

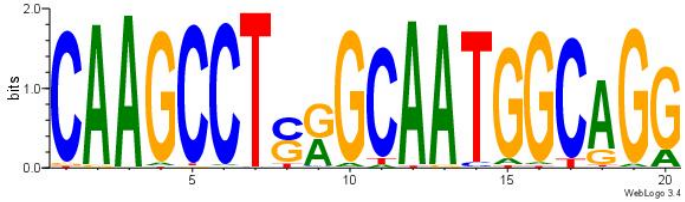

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.106466

Alignment:
AAAAGTCCACAGTCCAAAGT
CGCACTCCTCAGCC------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

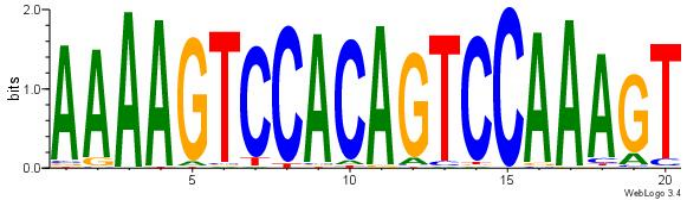

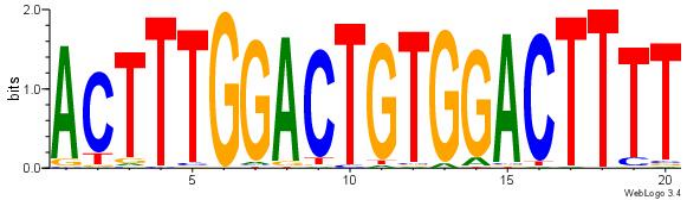

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.108025

Alignment:

```
ATGGCCTATGACYGSTTTG
--GGCTGAGGAGTGCG---
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

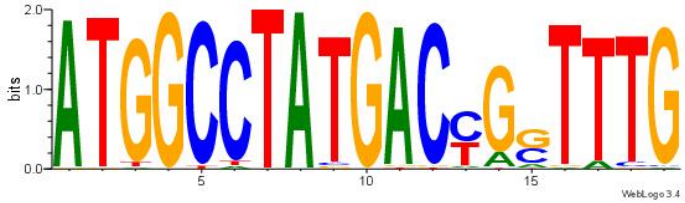

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

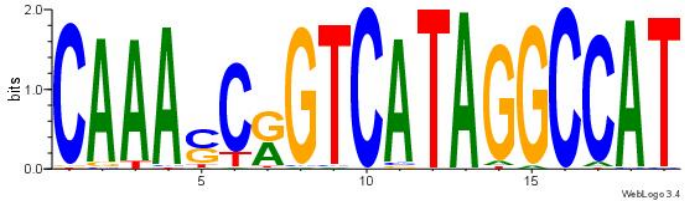

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.109112

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
------GGCTGAGGAGTGCG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

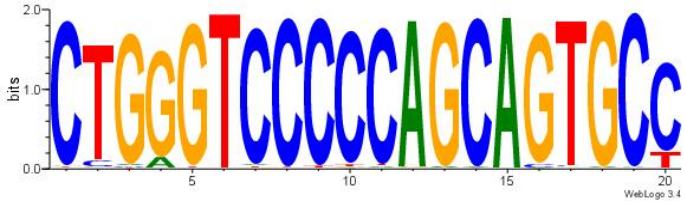

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

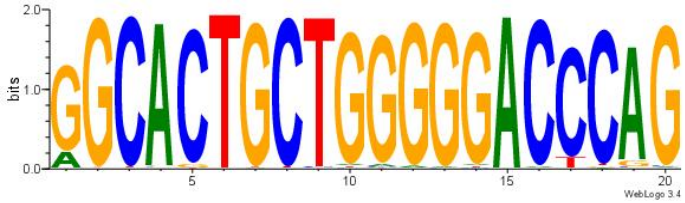

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.109206

Alignment:
GAAAGGGAACTCCCTGACCC
-----CGCACTCCTCAGCC-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

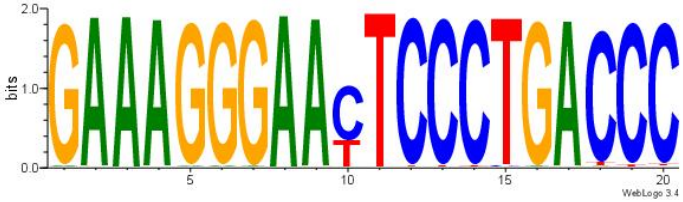

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

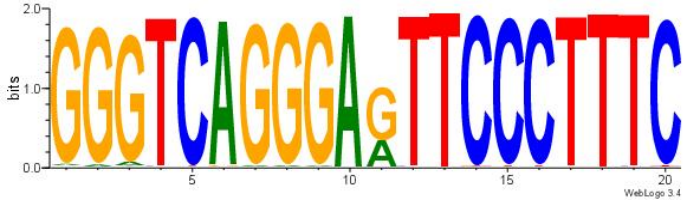

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.111463

Alignment:
GGTGGGGGGGTCAGCCCCC
GGCTGAGGAGTGCG-----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

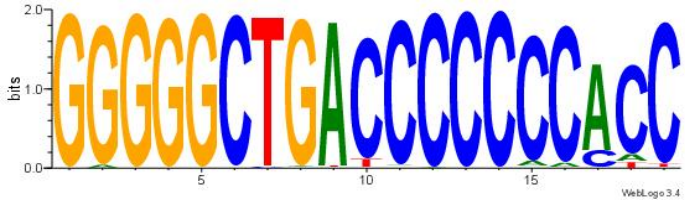

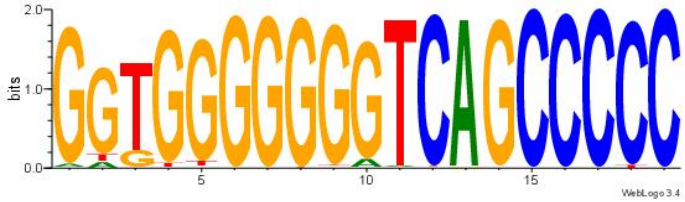

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.112877

Alignment:

```
GGCAATGCCTCGCCCTGCTT
------CGCACTCCTCAGCC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

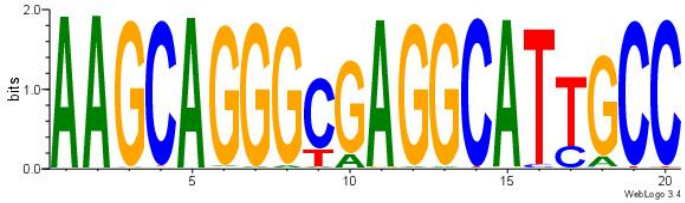

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

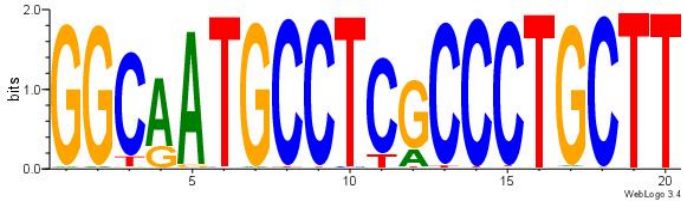

Dataset #:	1

Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.113128

Alignment:

```
CCCTCACTGCCCGGGG
--CGCACTCCTCAGCC
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

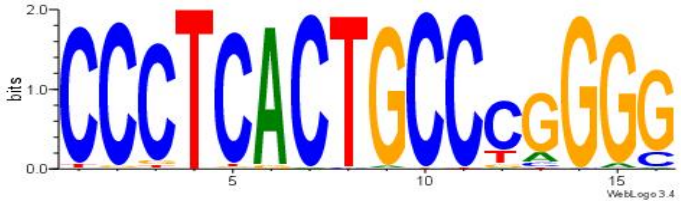

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

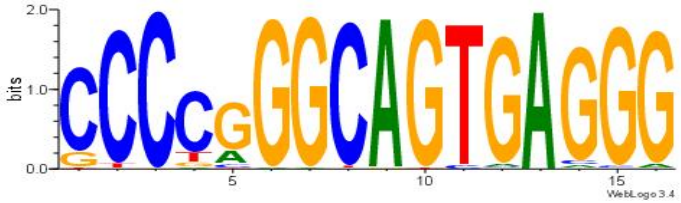

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.113157

Alignment:
GTGTCKGGAGTTTGTTCCTT
GGCTGAGGAGTGCG------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

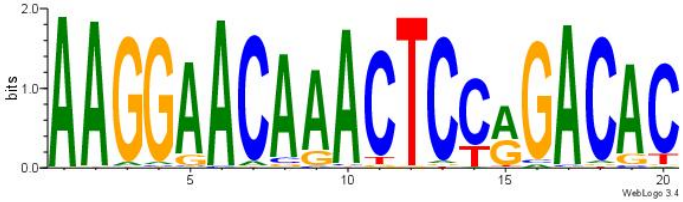

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

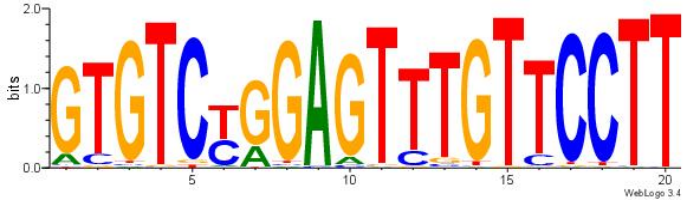

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.1137

Alignment:
ATTCAASATGAGATTTGGG
-----GGCTGAGGAGTGCG

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

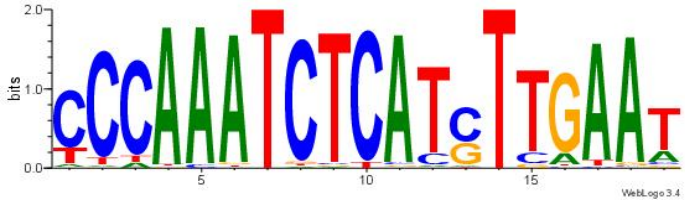

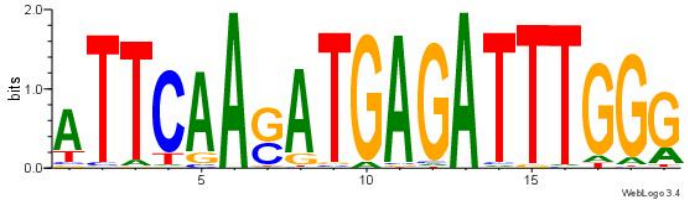

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.114218

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----CGCACTCCTCAGCC-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

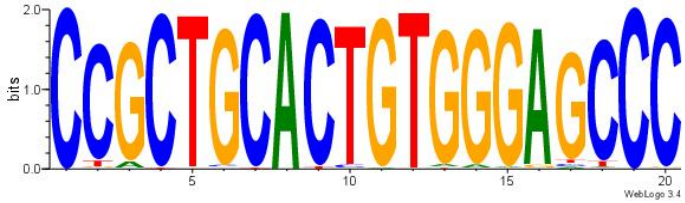

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

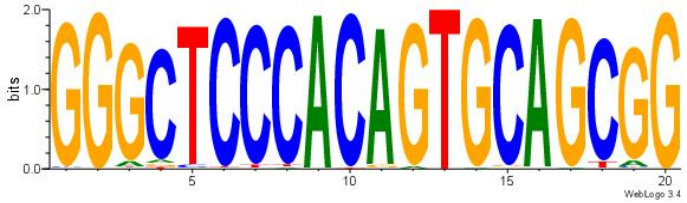

Dataset #: 1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.114271

Alignment:

```
CCGCGGGGCAGGGCTCG
-GGCTGAGGAGTGCG--
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

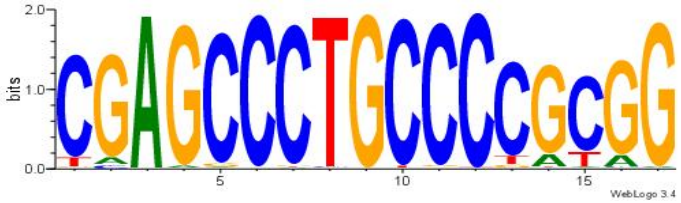

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

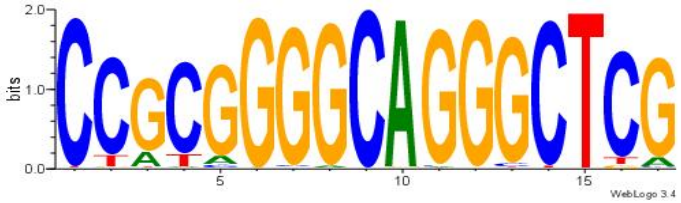

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.116307

Alignment:
GTGGCCCTCTTCTCACAGCT
--CGCACTCCTCAGCC----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

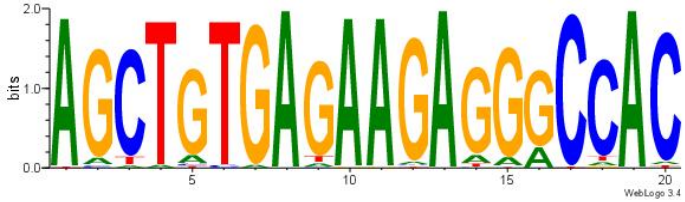

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

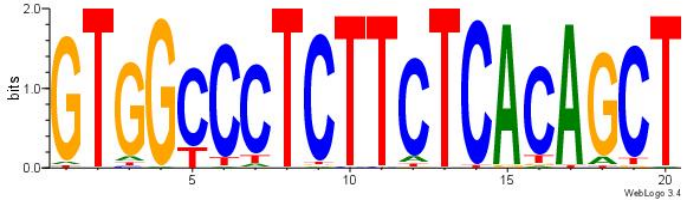

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.116422

Alignment:
TAGTGGTGATTTSTGAGAT
---GGCTGAGGAGTGCG--

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

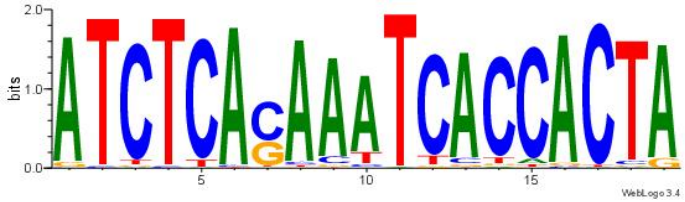

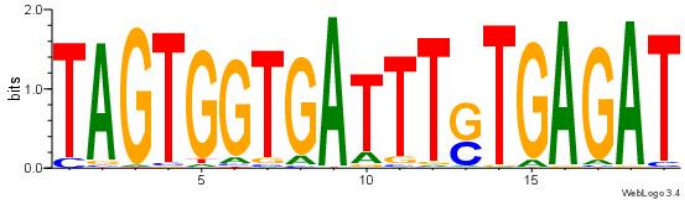

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.116486

Alignment:

```
AGGGATCTAGGTTGCR
--GGCTGAGGAGTGCG
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

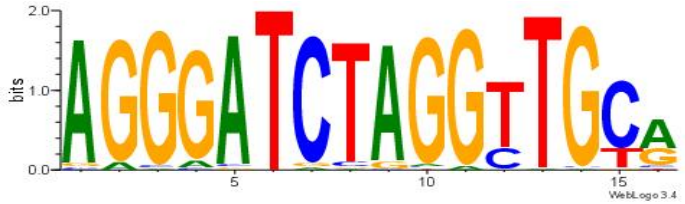

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

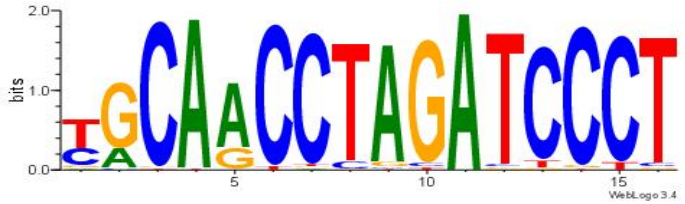

Dataset #:	1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.116803

Alignment:

```
AGGASCSTCYSWGCCMGGY
-CGCACTCCTCAGCC----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

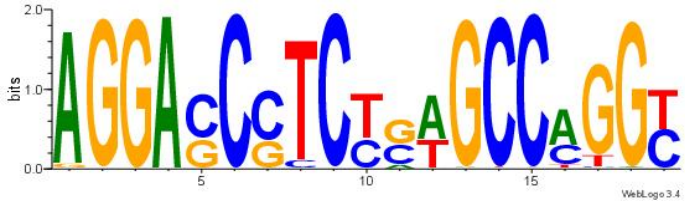

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

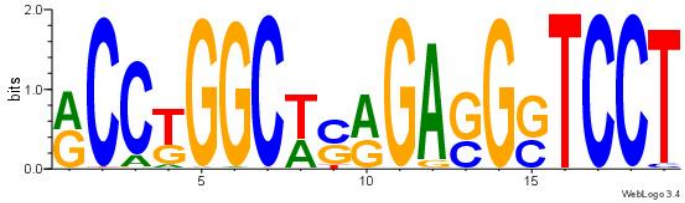

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.117621

Alignment:
VCCDCCTCCKCCTCCTC
-CGCACTCCTCAGCC--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

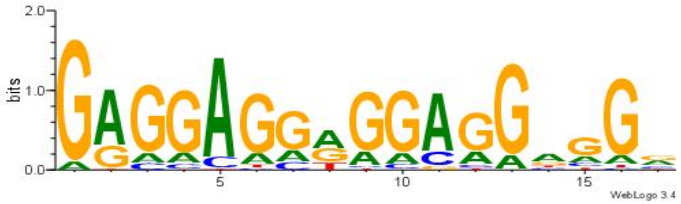

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

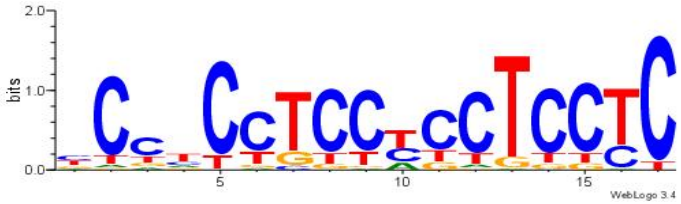

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.117864

Alignment:
GTGGGTGCAGTGCA
GGCTGAGGAGTGCG

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

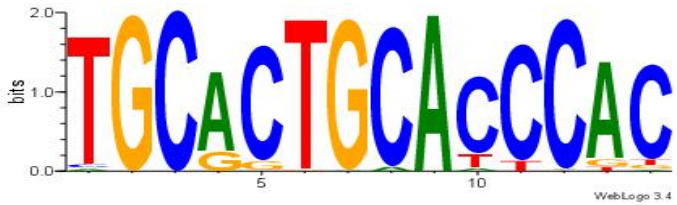

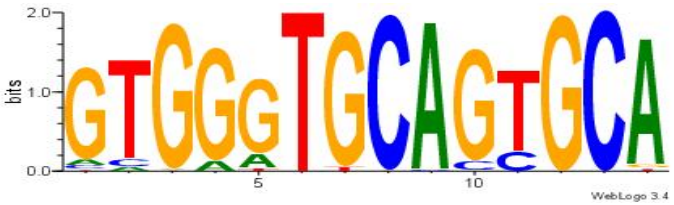

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.118755

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
------CGCACTCCTCAGCC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

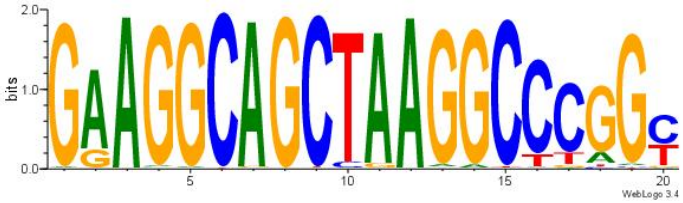

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

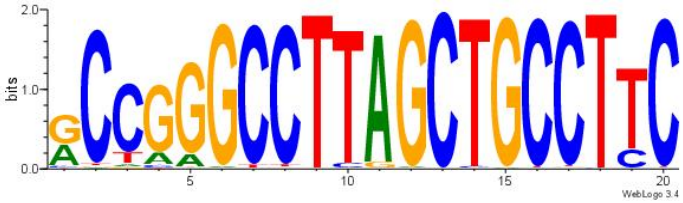

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.119297

Alignment:

```
CCAAGACYCCAGAC
CGCACTCCTCAGCC
```

Original motif Consensus sequence: CCAAGACYCCAGAC

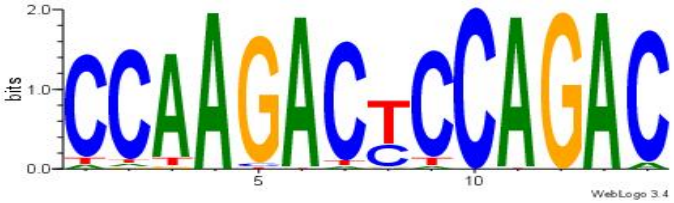

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

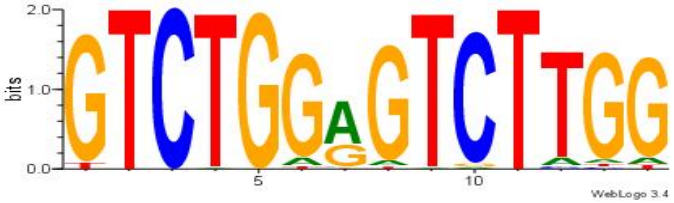

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.120029

Alignment:
GCCGTTTKTTAAGCCCGTY
-CGCACTCCTCAGCC----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

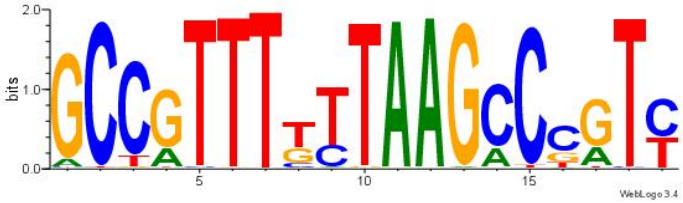

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

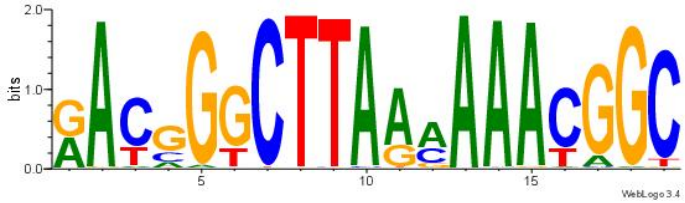

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.120906

Alignment:
GTTTAACCATTGAGGGCCAG
GGCTGAGGAGTGCG------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

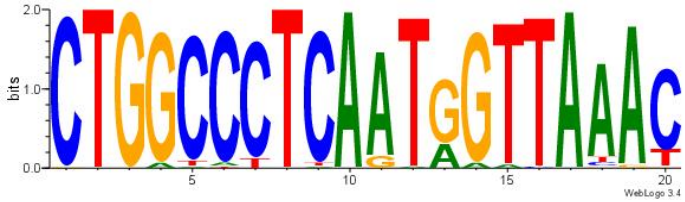

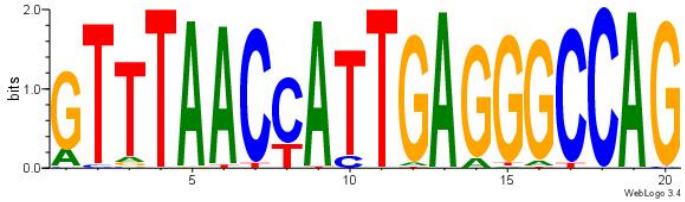

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.121174

Alignment:

```
AACCCTATTGTGAACTGYG
-----GGCTGAGGAGTGCG
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

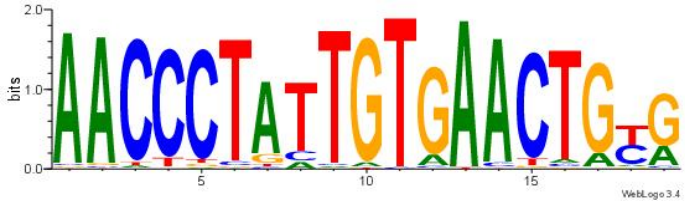

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

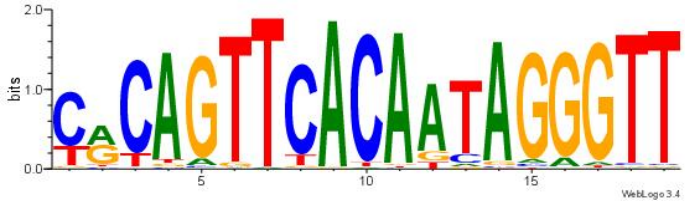

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.121758

Alignment:

```
GGTGCCCCTCTGGGACRAA
CGCACTCCTCAGCC-----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

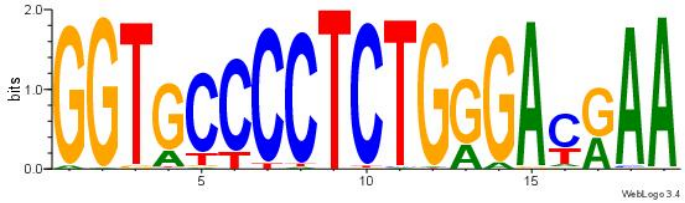

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

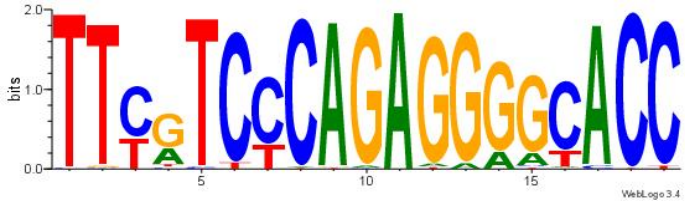

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.121782

Alignment:
GCAGCAMTATTCACAATAG
---CGCACTCCTCAGCC--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

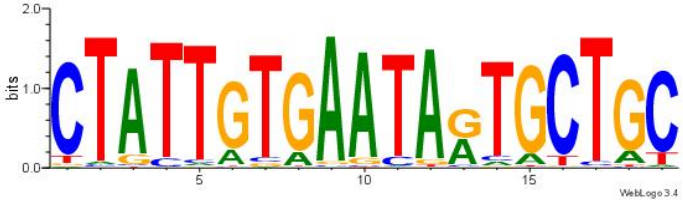

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

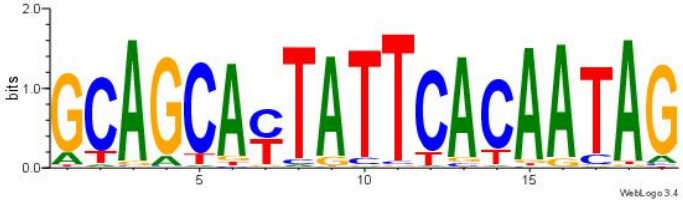

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.122097

Alignment:
AGGCCCCAGTGTSTGTTGTT
-GGCTGAGGAGTGCG-----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

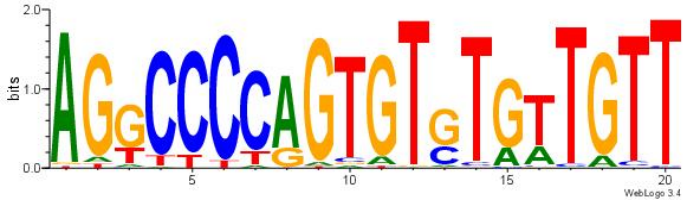

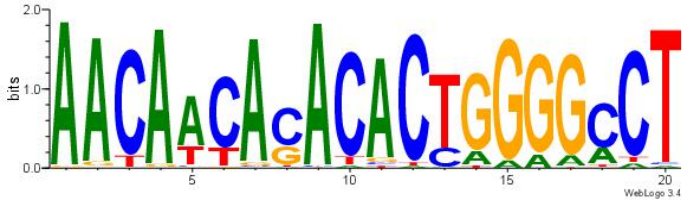

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.122578

Alignment:

```
GGCATCACGGATCCTACCAA
CGCACTCCTCAGCC------
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

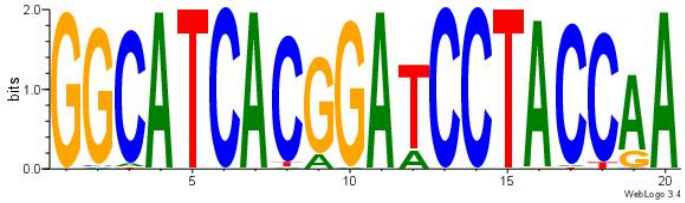

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

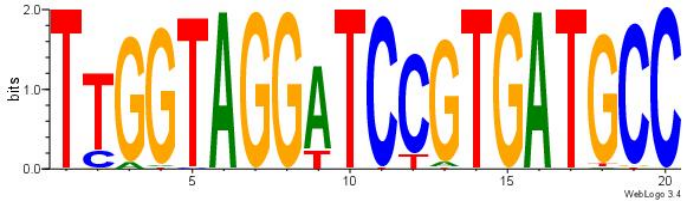

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.122943

Alignment:

```
GTCCCATCGACCACCCAAG
--CGCACTCCTCAGCC---
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

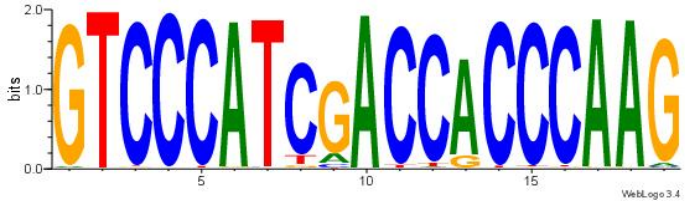

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

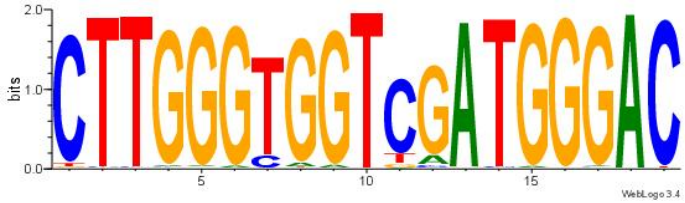

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.123014

Alignment:
AAGACGGGTGATTTCTG
--GGCTGAGGAGTGCG-

Original motif Consensus sequence: CAGAAATCACCCGTCTT

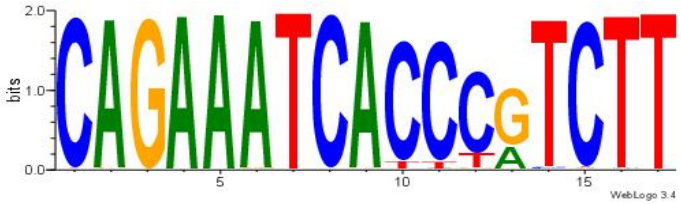

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

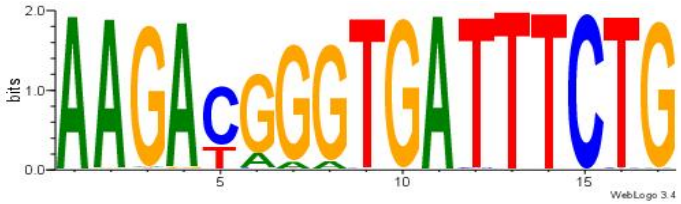

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.12319

Alignment:
MGTCTMKCTCTGTKGCCCAG
---CGCACTCCTCAGCC---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

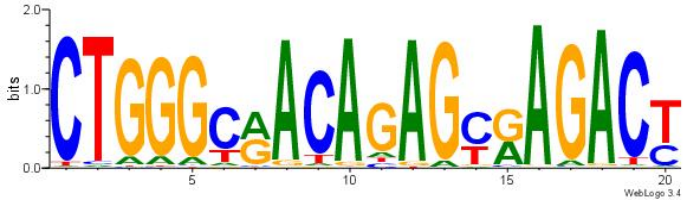

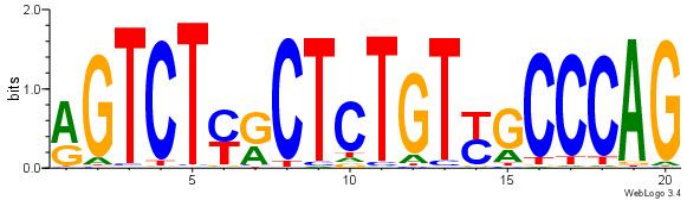

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.123399

Alignment:

```
GAAAAGCGCAGTATTMGGG
-GGCTGAGGAGTGCG----
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

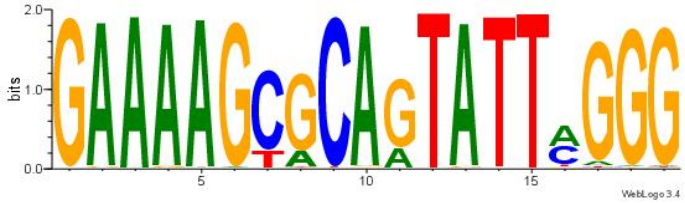

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

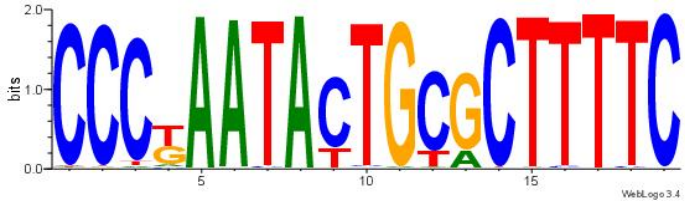

Dataset #: 1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.12489

Alignment:

```
CAAAGTCTTAACTCATT
CGCACTCCTCAGCC---
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

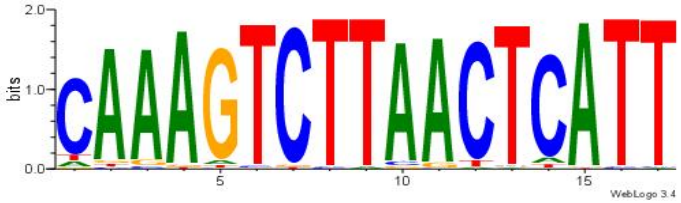

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.125307

Alignment:
GAGSTTGCAGTGAGC
GGCTGAGGAGTGCG-

Original motif Consensus sequence: GCTCACTGCAASCTC

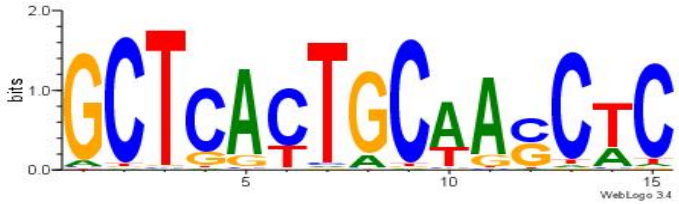

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

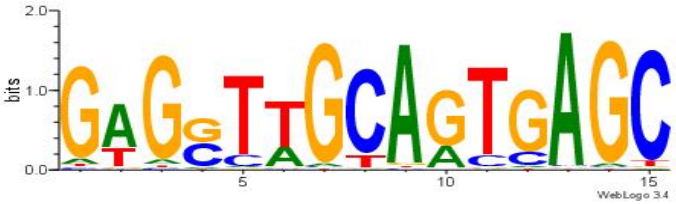

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.125366

Alignment:
CCCGAAGCTGCRYRCTCGGT
-----GGCTGAGGAGTGCG-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

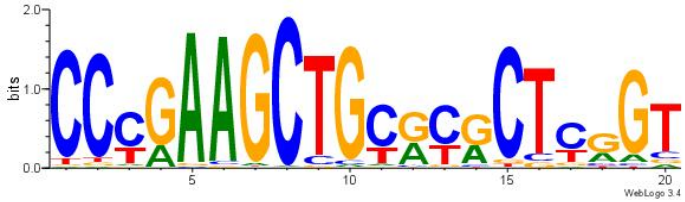

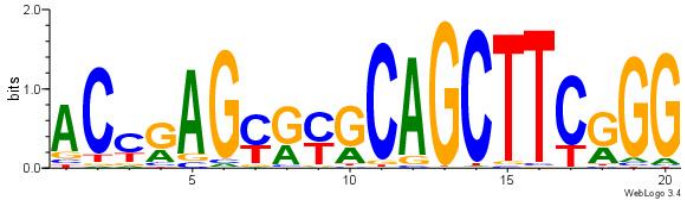

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.125798

Alignment:

```
AGAGCTCTGGCTGGCATCT
--GGCTGAGGAGTGCG---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

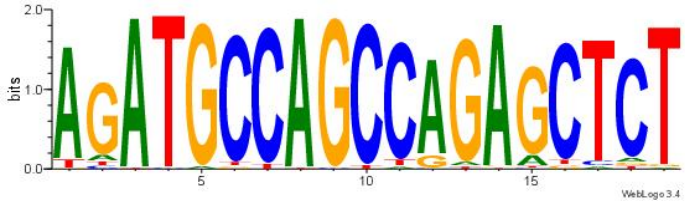

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

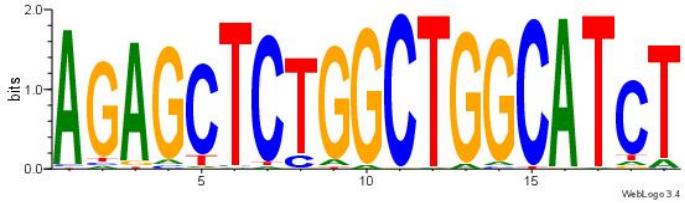

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.126496

Alignment:

```
GACAGGAGATTAACACTGAG
------GGCTGAGGAGTGCG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

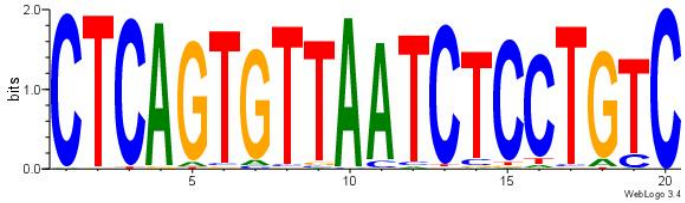

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

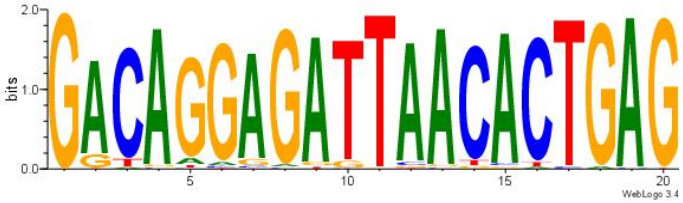

Dataset #: 1 Motif ID: 73 Motif name: Motif 73

Original motif Consensus sequence: CAAACTGCAAG

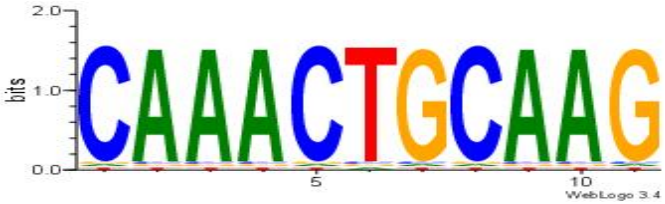

Reverse complement motif Consensus sequence: CTTGCAGTTTG

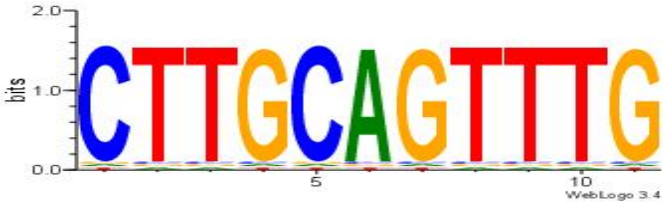

Best Matches for Motif ID 73 (Highest to Lowest)

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0679381

Alignment:

```
TTGTCCCACTGGAAGGTCTT
----CAAACTGCAAG-----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

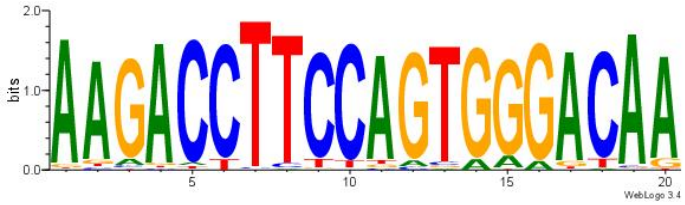

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

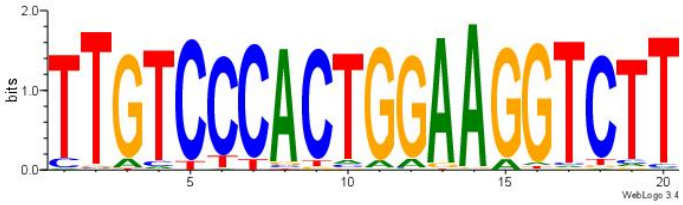

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0730245

Alignment:

```
GAGSTTGCAGTGAGC
---CTTGCAGTTTG-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

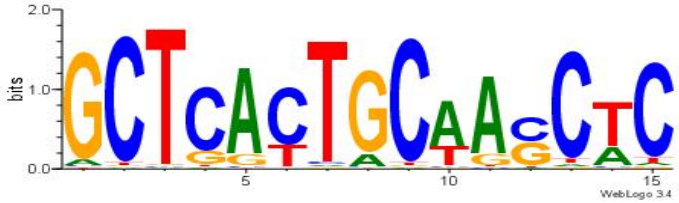

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

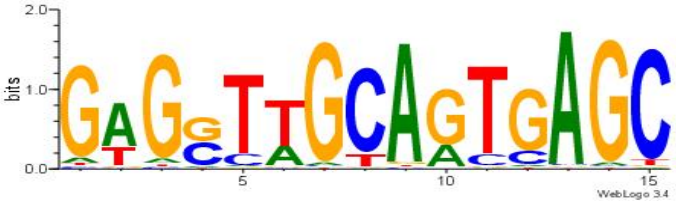

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0750068

Alignment:

```
ATAAAAACTTGCTGGTTTT
-------CTTGCAGTTTG-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

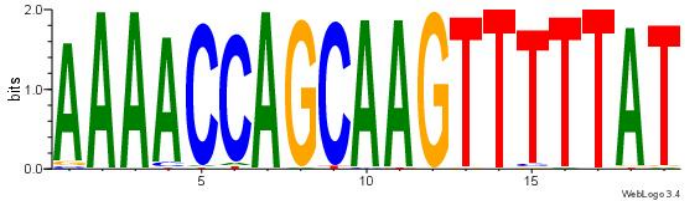

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

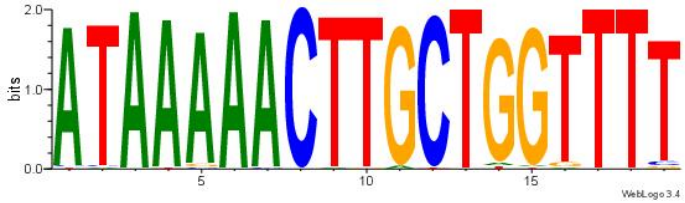

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0826446

Alignment:

```
TTGAGGAGGCAGTCTG
-----CTTGCAGTTTG
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

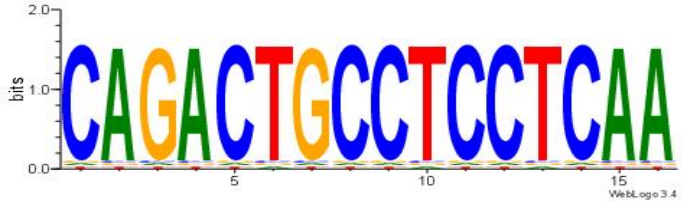

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

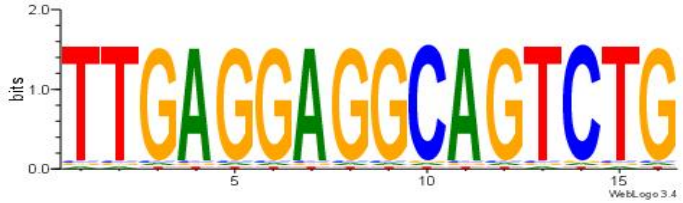

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0847484

Alignment:

```
CTGACTGGGAGACACCTCCC
CAAACTGCAAG---------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

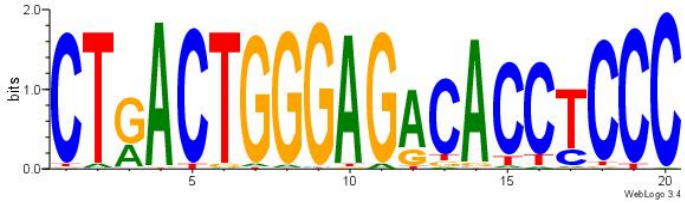

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

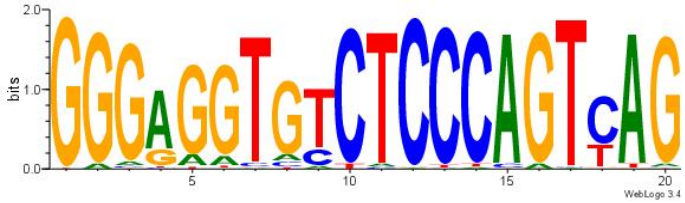

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 11
Similarity score: 0.0853508

Alignment:
AAGGAACAAACTCCRGACAC
------CAAACTGCAAG---

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

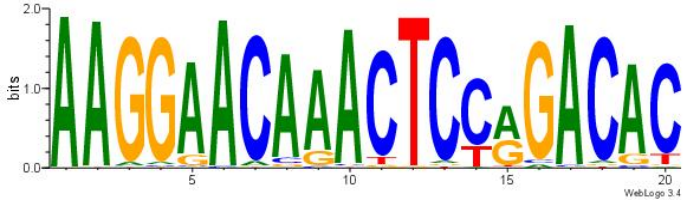

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

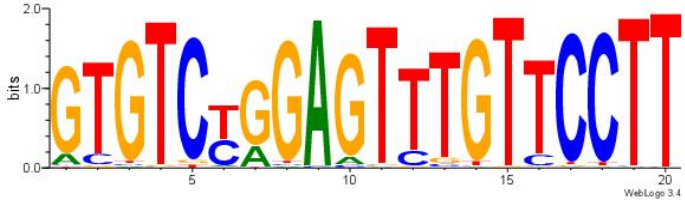

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0868785

Alignment:
AGCTCCCAGCGTGAGCGACG
-------CTTGCAGTTTG--

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

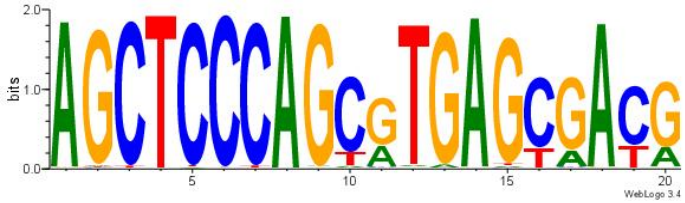

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

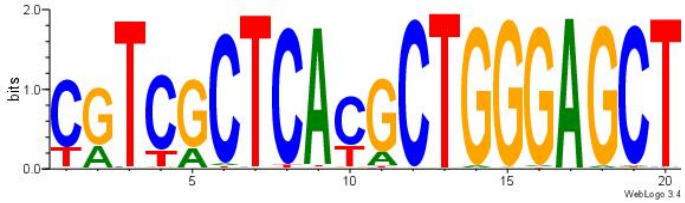

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0875387

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-----CAAACTGCAAG----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

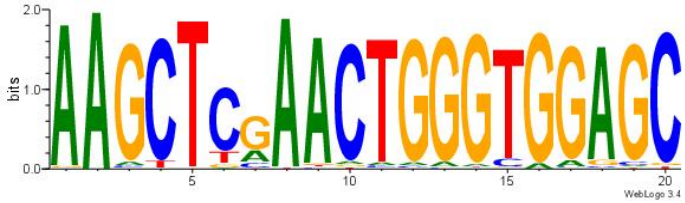

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

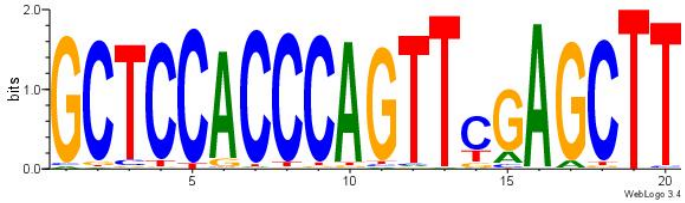

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0887887

Alignment:

```
KKCACCTTGATCTTGGACTT
-----CTTGCAGTTTG----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

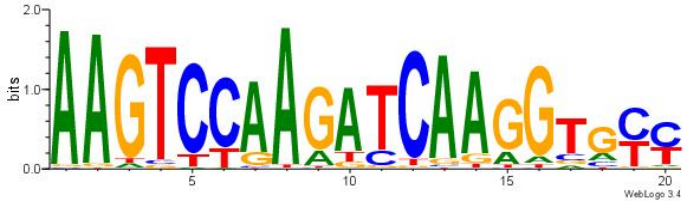

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

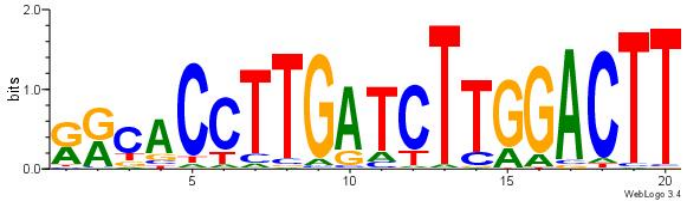

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 11
Similarity score: 0.0905613

Alignment:
ACTTTGGACTGTGGACTTTT
--CTTGCAGTTTG-------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

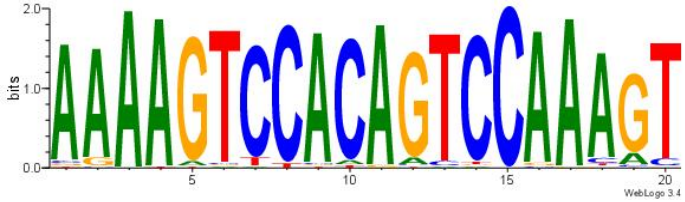

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

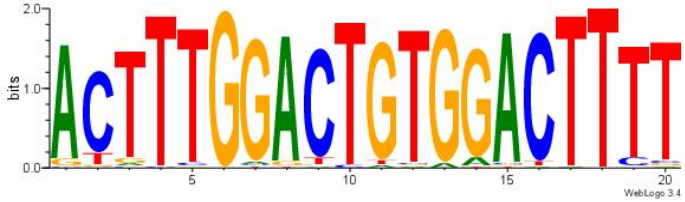

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.0909218

Alignment:
ACACATCACAAAGCAGTTTC
---------CTTGCAGTTTG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

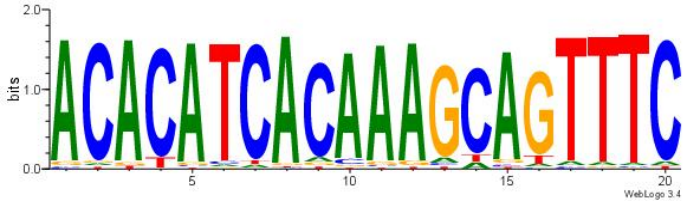

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

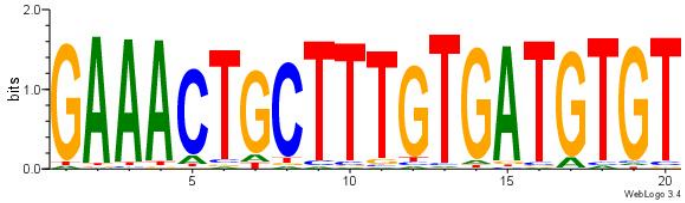

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0914185

Alignment:

```
CCCCGGGCAGTGAGGG
---CTTGCAGTTTG--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

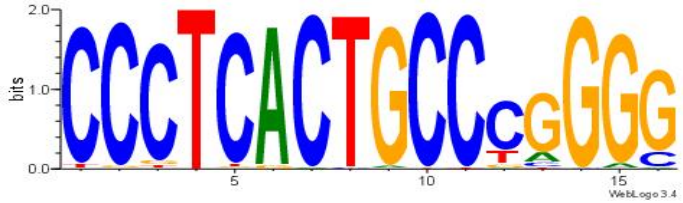

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

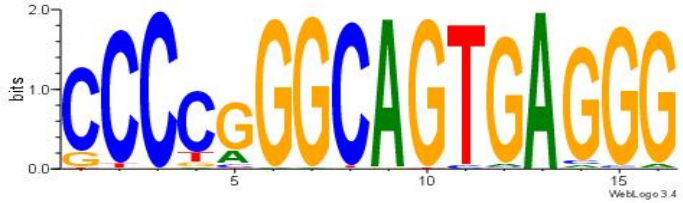

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0921016

Alignment:

```
TCCAAATGGGAGAAATTGGC
-CAAACTGCAAG--------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

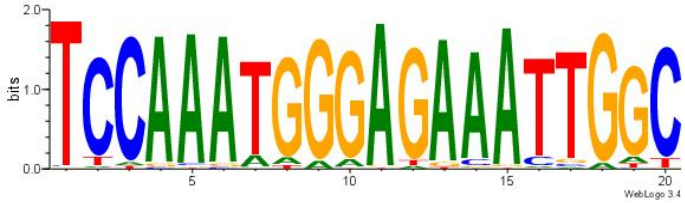

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

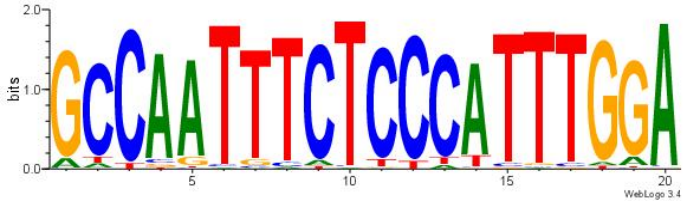

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 11
Similarity score: 0.0927764

Alignment:
TCACKMGGGAAGCGCAAG
CAAACTGCAAG-------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

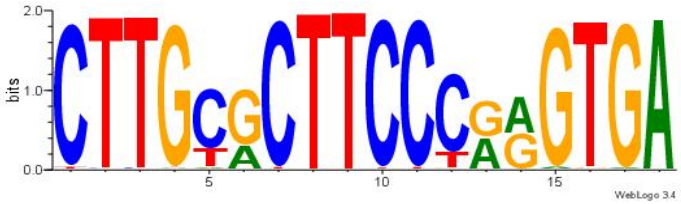

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

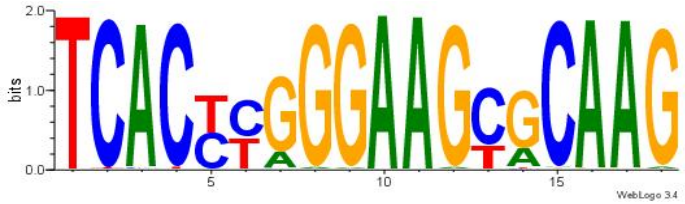

Dataset #: 1
Motif ID: 346
Motif name: Motif 346
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0934046

Alignment:
GAGCTTTAAGATTT
---CTTGCAGTTTG

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

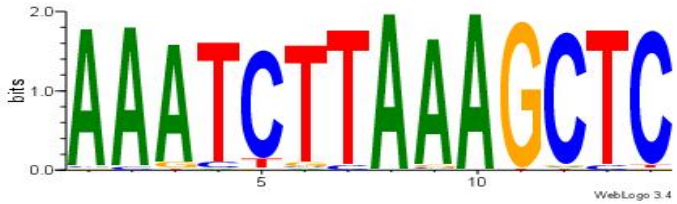

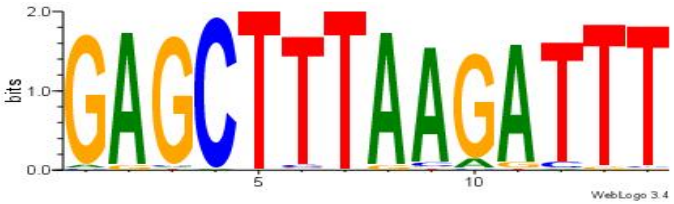

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.093663

Alignment:

```
AATGAKATCATGTCYTTTGC
--------CTTGCAGTTTG-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

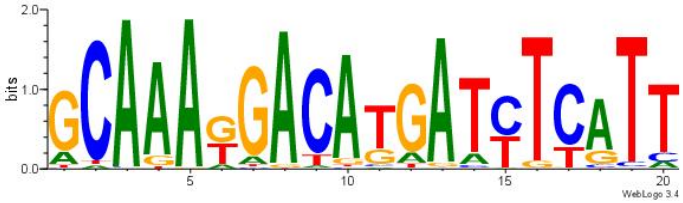

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

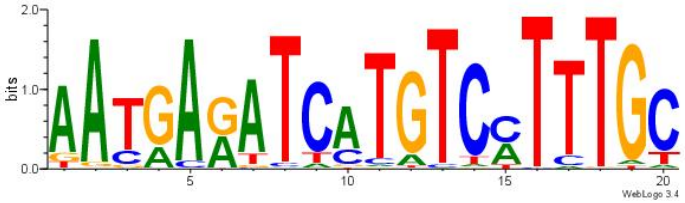

Dataset #: 1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0938115

Alignment:

```
CATGGCGGGCTGCAGGTC
-----CAAACTGCAAG--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

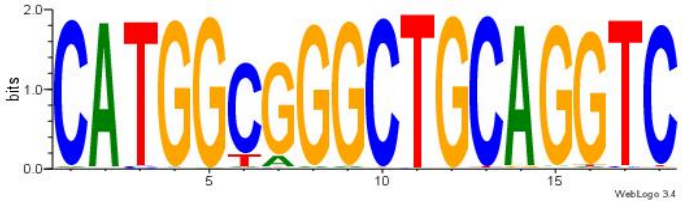

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

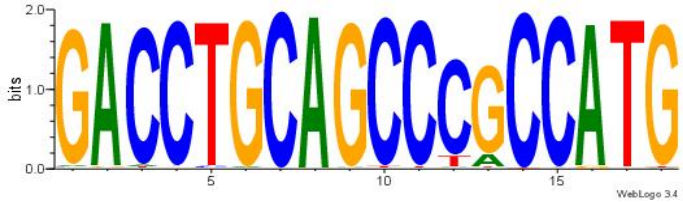

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0939917

Alignment:
GGTGGAGCTGCCTGCCAGTC
--CAAACTGCAAG-------

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

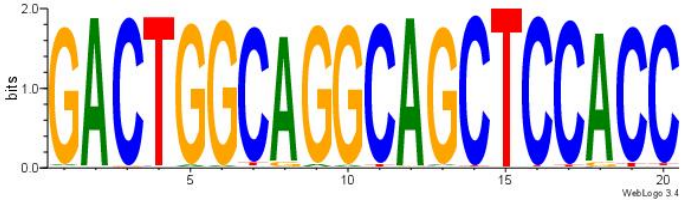

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

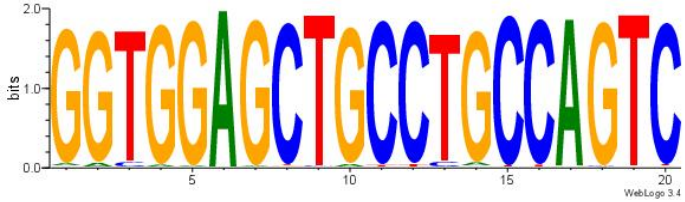

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0940426

Alignment:
AGTTCTTAAAGATGGT
----CTTGCAGTTTG-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence:
ACCATCTTTAAGAACT

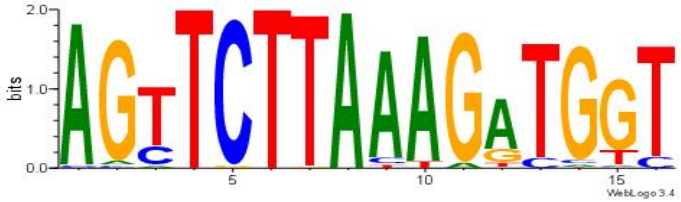

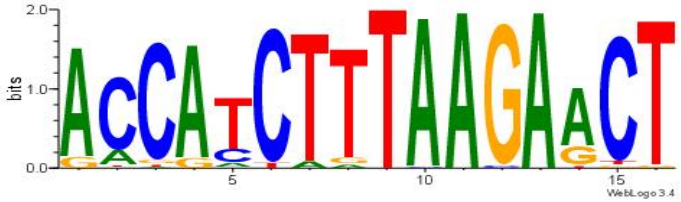

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0943529

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---CAAACTGCAAG------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

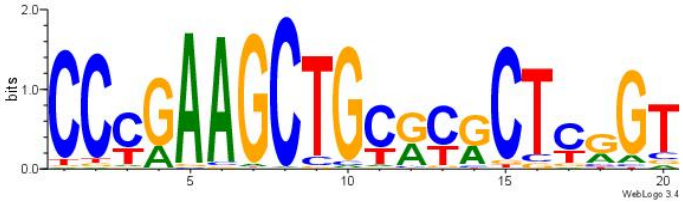

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

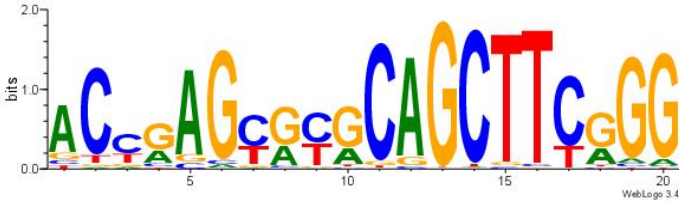

Dataset #:	1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0945212

Alignment:

```
AAGTCTCCCAATTACAACT
-------CAAACTGCAAG-
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

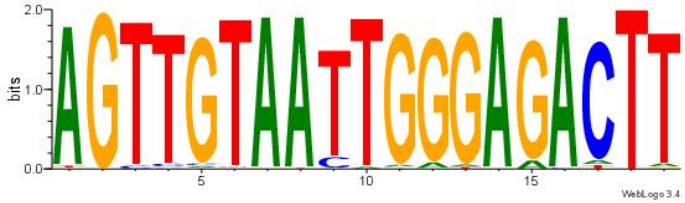

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

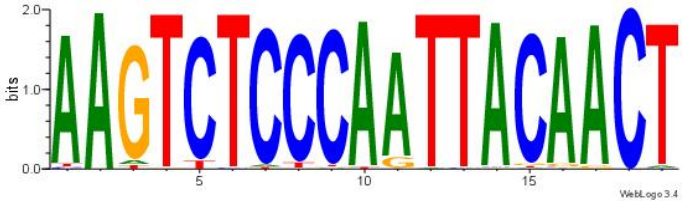

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0949993

Alignment:
GTTAACTGTAAAACAGCCT
-CAAACTGCAAG-------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

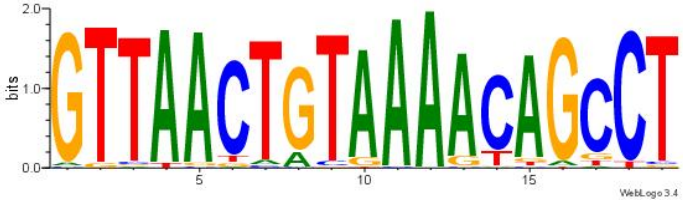

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

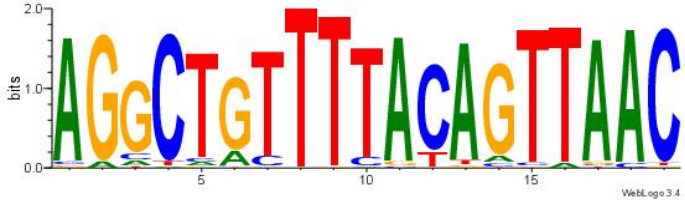

Dataset #: 1
Motif ID: 317
Motif name: Motif 317
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0952751

Alignment:
ACATGCTACAACAT
-CAAACTGCAAG--

Original motif Consensus sequence: ACATGCTACAACAT

Reverse complement motif Consensus sequence: ATGTTGTAGCATG

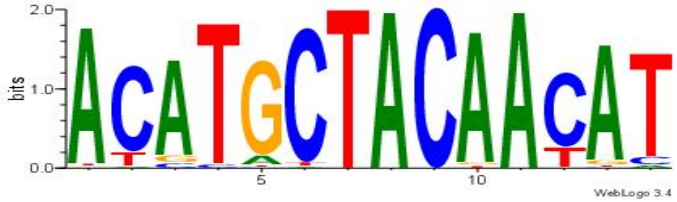

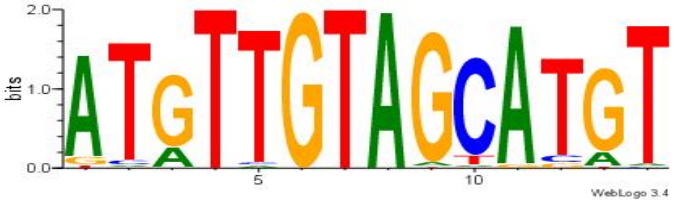

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0953304

Alignment:

```
CCGCTGCACTGTGGGAGCCC
--CTTGCAGTTTG-------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

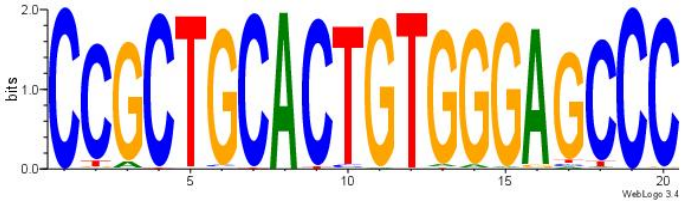

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

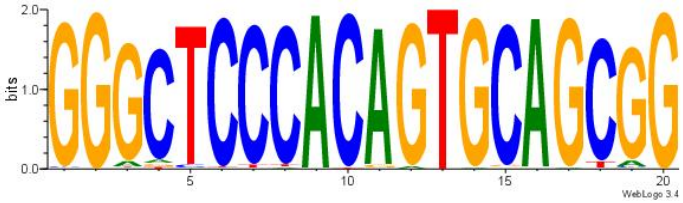

Dataset #:	1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0961265

Alignment:

```
GCTGCARTCTCGGCACTTT
CTTGCAGTTTG--------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

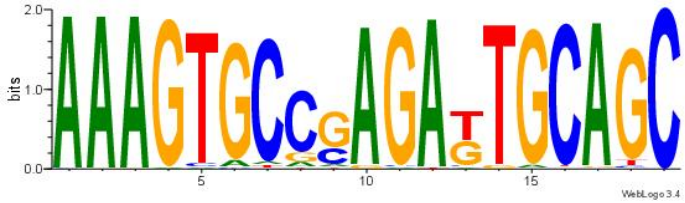

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

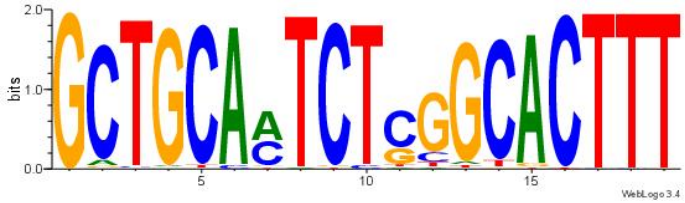

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0974471

Alignment:
TGCCCAGTCTGGAAAGTG
----CAAACTGCAAG---

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

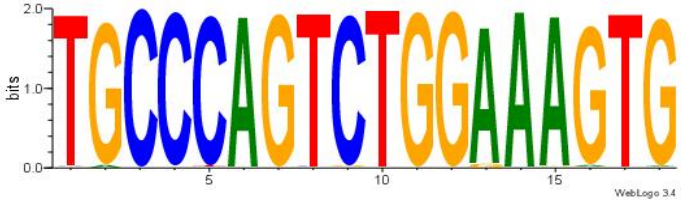

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

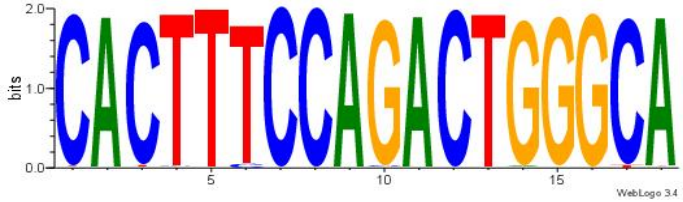

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0976924

Alignment:
AATGACCAATTGAGAGC
-----CAAACTGCAAG-

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

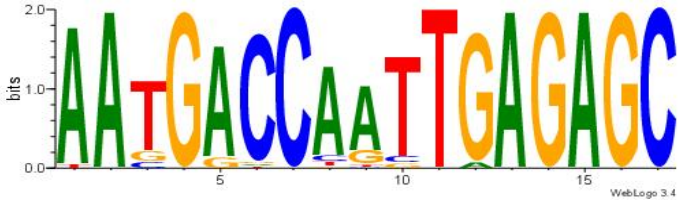

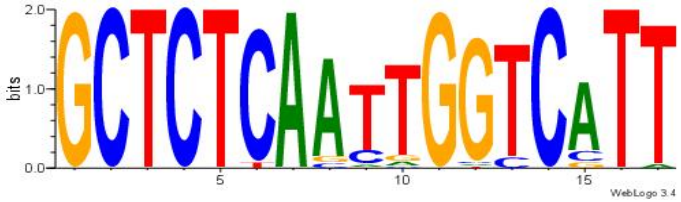

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0977109

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-----CTTGCAGTTTG----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

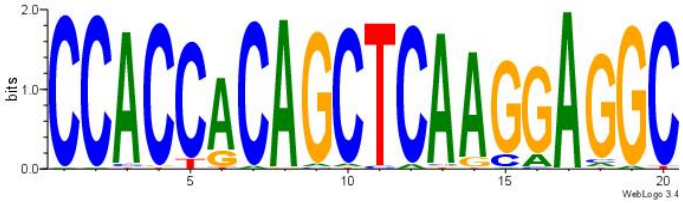

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

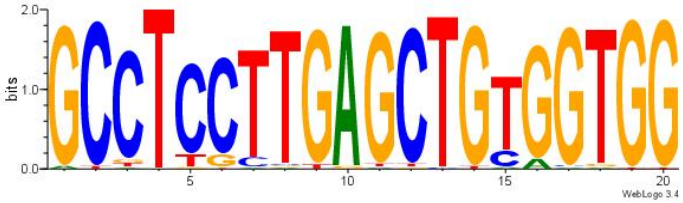

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0977531

Alignment:

```
TAAAAGACTACAWATTGGGT
---CAAACTGCAAG------
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

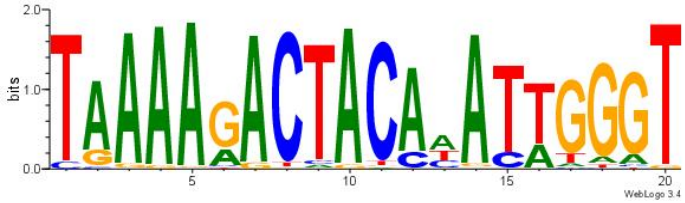

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

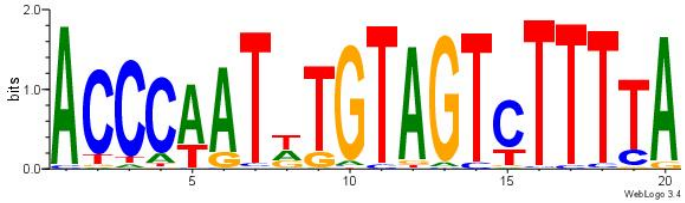

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0979736

Alignment:
KACATTGATTTTGTATC
--CTTGCAGTTTG----

Original motif Consensus sequence: GATACAAAATCAATGTR

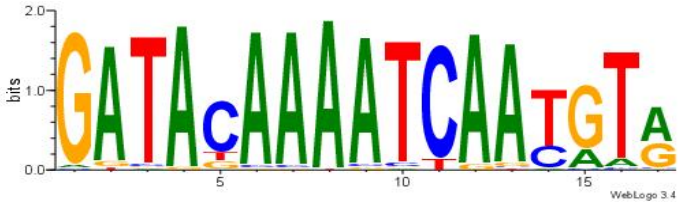

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

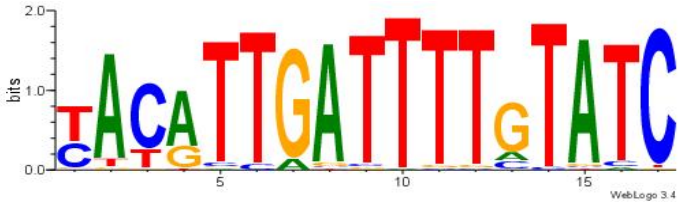

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0981197

Alignment:
CGGCTTCATTCTTGAAGTC
------CAAACTGCAAG--

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

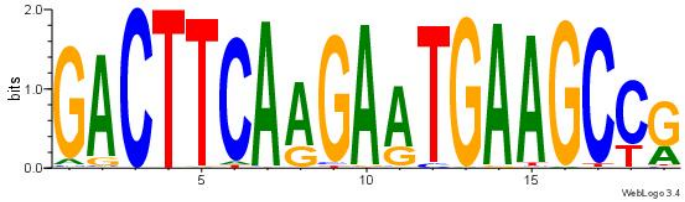

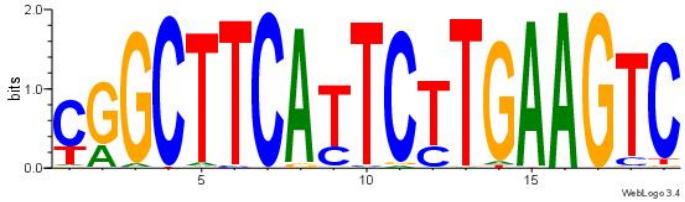

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0987138

Alignment:

```
GCAWSTGCAAAGGCCCT
CAAACTGCAAG------
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

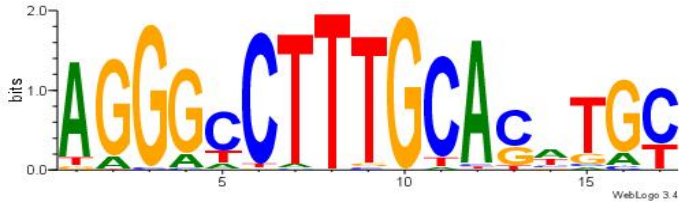

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

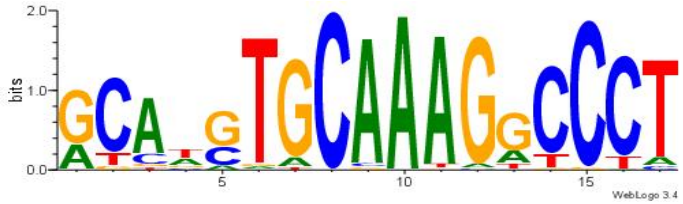

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0993483

Alignment:

```
CAACATGGATGRARCTGGAG
CAAACTGCAAG---------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

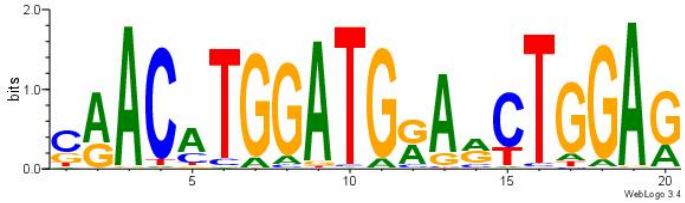

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

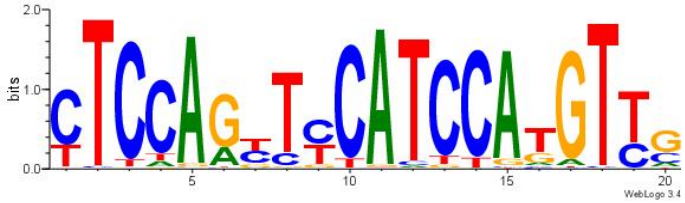

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.0995493

Alignment:
TYTGTCMTTTTGTGACTGGC
-CTTGCAGTTTG--------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

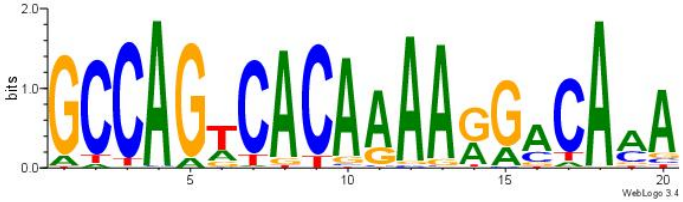

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

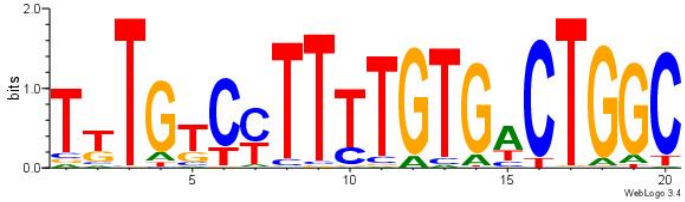

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.10079

Alignment:
GTAACACTCACCGCGARGGT
------CAAACTGCAAG---

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

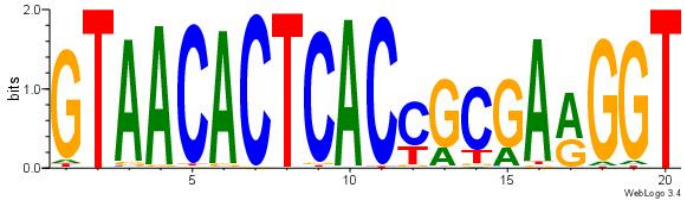

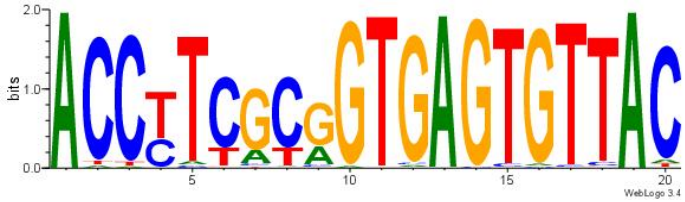

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.101233

Alignment:

```
AAAATCACAAGCATTCCTAT
CAAACTGCAAG---------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

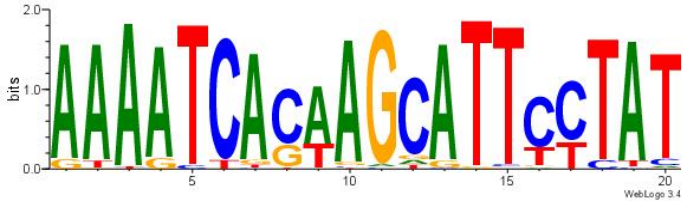

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

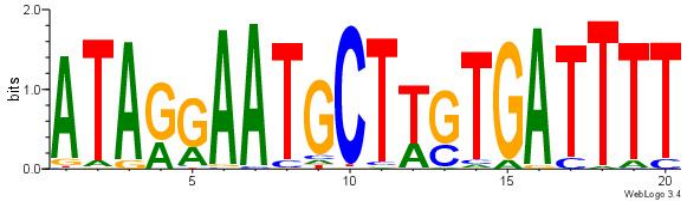

Dataset #: 1

Motif ID:	197
Motif name:	Motif 197
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.103306

Alignment:

```
CGCCCGGCCAGC
CAAACTGCAAG-
```

Original motif Consensus sequence: CGCCCGGCCAGC

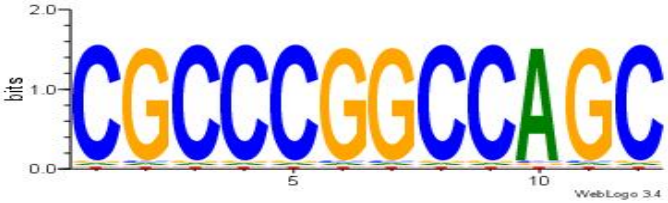

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

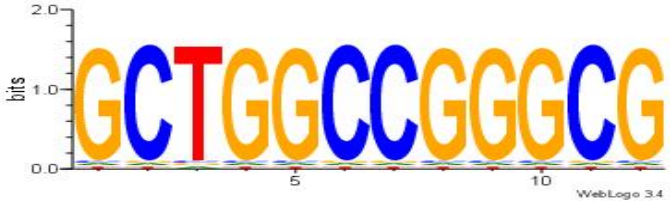

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.103649

Alignment:
MGTCTMKCTCTGTKGCCCAG
---CTTGCAGTTTG------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

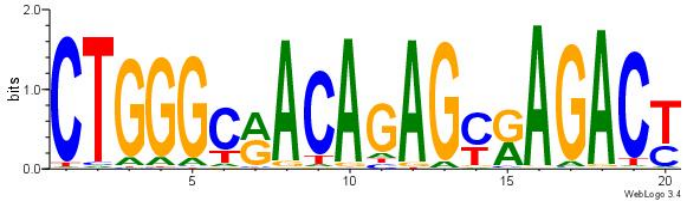

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

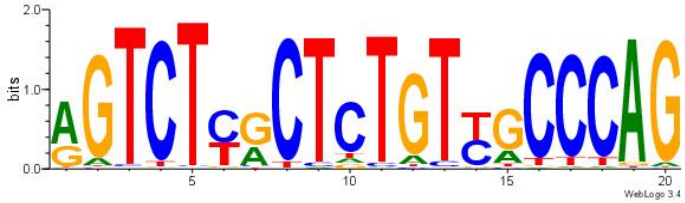

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.103922

Alignment:
CAGGTGGTKTTTGGTTACAT
--CTTGCAGTTTG-------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

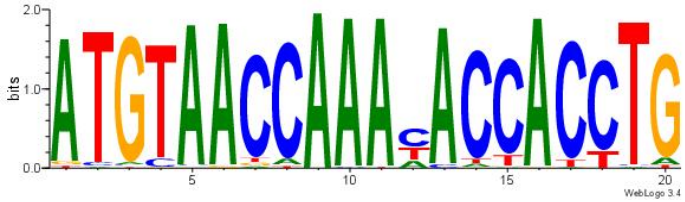

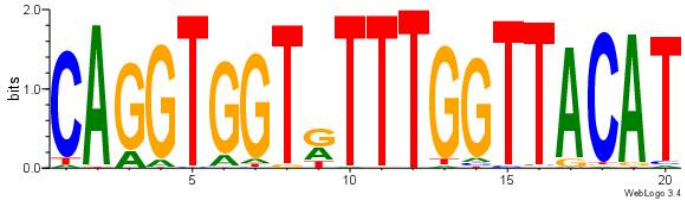

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.104169

Alignment:

```
ATTCAASATGAGATTTGGG
------CTTGCAGTTTG--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

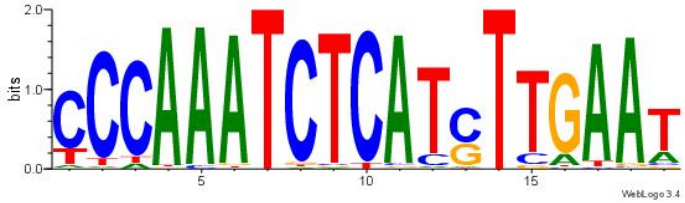

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

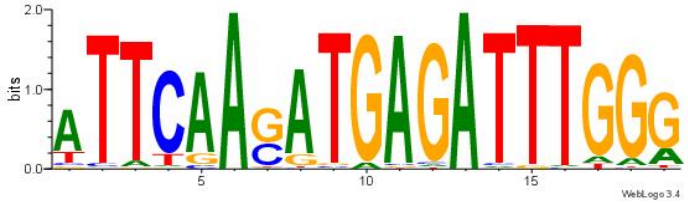

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.104233

Alignment:

```
TTYTTGTTGTTGTTGTT
--CTTGCAGTTTG----
```

Original motif Consensus sequence: AACAACAACAACAAMAA

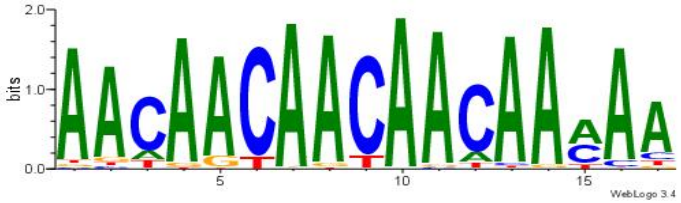

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

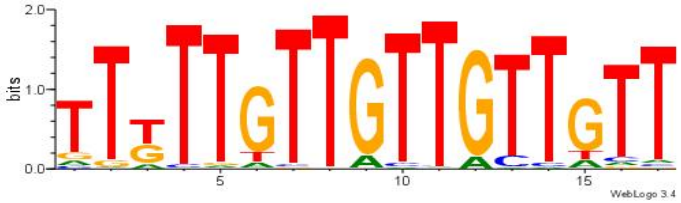

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.104468

Alignment:
CMTAGYACAGTGCCTGGCAC
-----CAAACTGCAAG----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

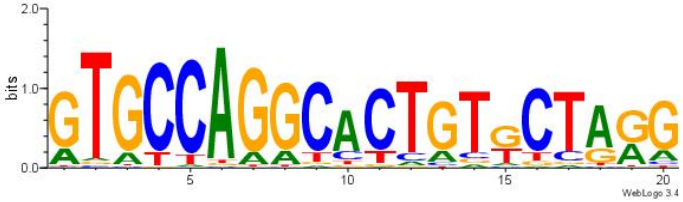

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

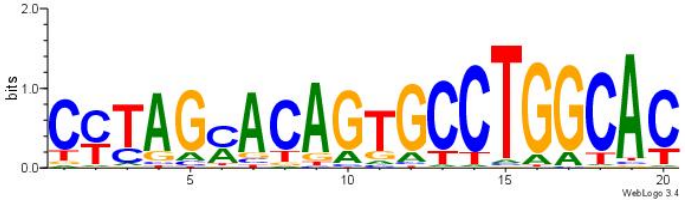

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.105298

Alignment:
AGTGAGAACATRYRRTRTTT
-CTTGCAGTTTG--------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

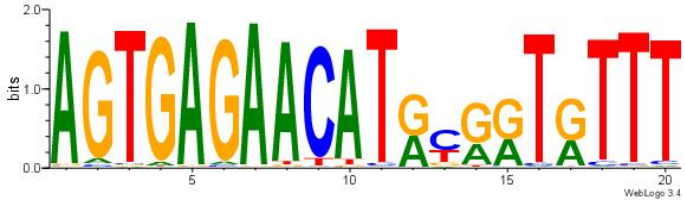

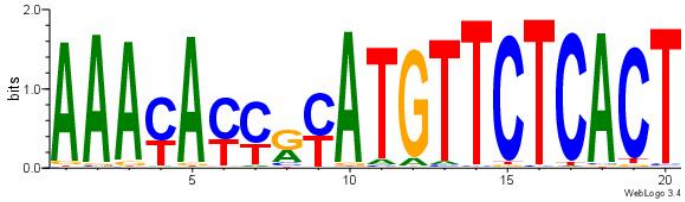

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.105693

Alignment:

```
KGAGAACAGTAGGG
--CAAACTGCAAG-
```

Original motif Consensus sequence: CCCTACTGTTCTCY

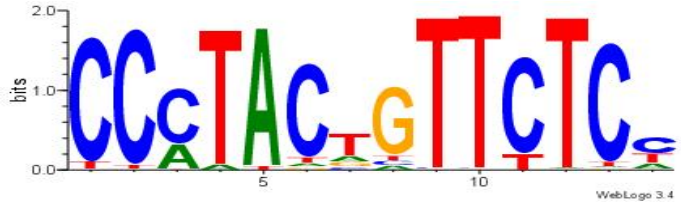

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	178

Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.10586

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-CTTGCAGTTTG--------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

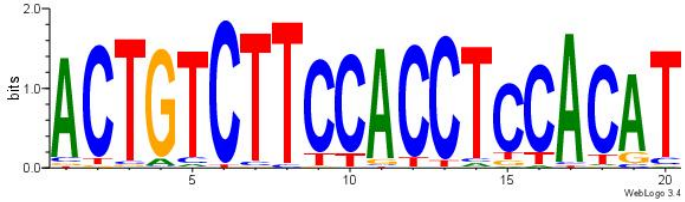

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

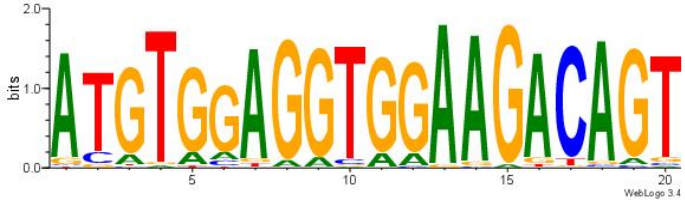

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.106143

Alignment:
TGGGCTGCCAGATG
CAAACTGCAAG---

Original motif Consensus sequence: CATCTGGCAGCCCA

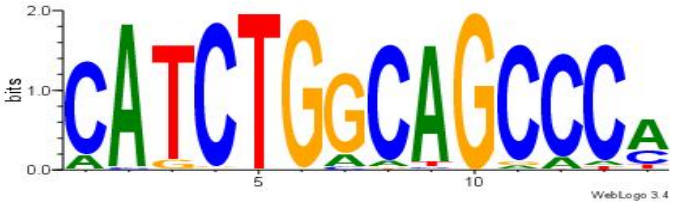

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

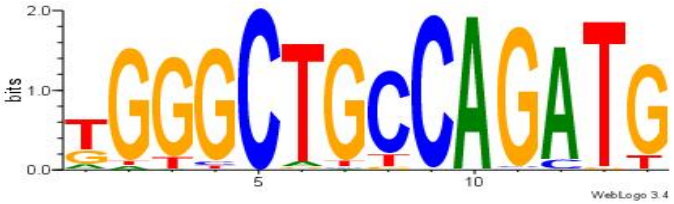

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.106363

Alignment:
ACTCAGCCCRCCTGCACCC
-------CAAACTGCAAG-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

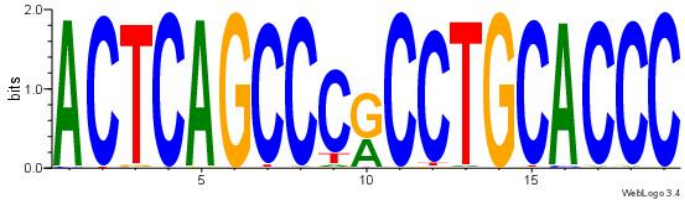

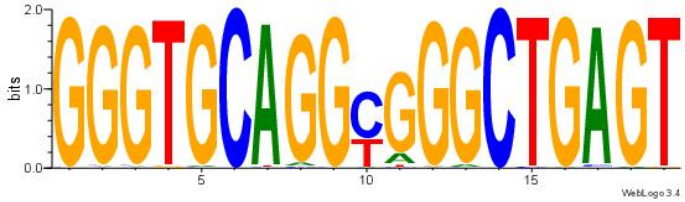

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.10716

Alignment:

```
GKGGCAGTGAGGC
CTTGCAGTTTG--
```

Original motif Consensus sequence: GCCTCACTGCCRC

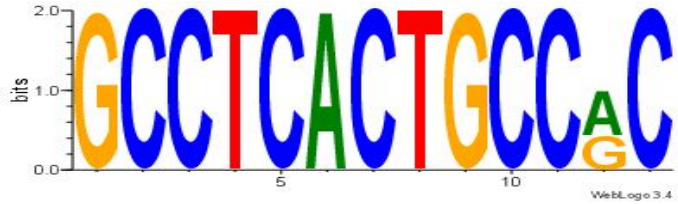

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

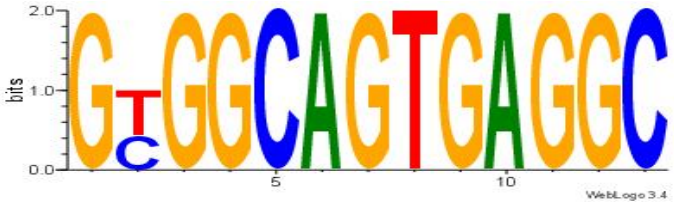

Dataset #:	1
Motif ID:	301

Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.107706

Alignment:

```
GTCTGGMGTCTTGG
--CTTGCAGTTTG-
```

Original motif Consensus sequence: CCAAGACYCCAGAC

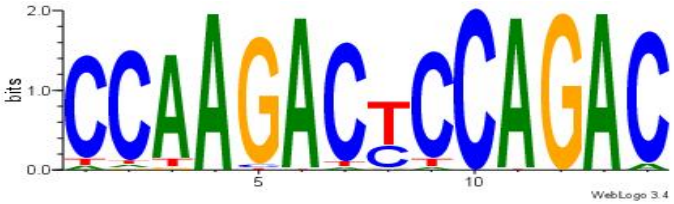

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

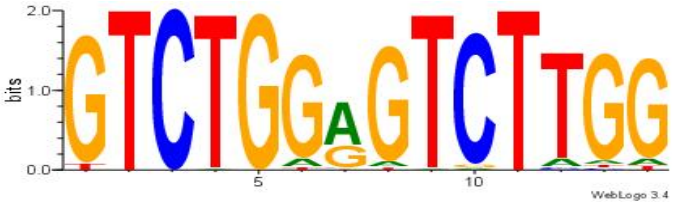

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.108285

Alignment:
GAATACCTCCTGAAGGACCT
-----CAAACTGCAAG----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

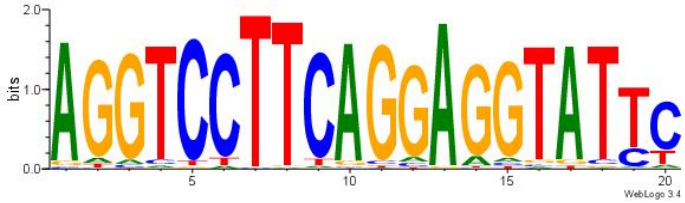

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

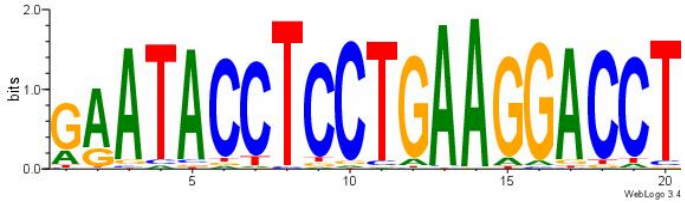

Dataset #: 1 Motif ID: 74 Motif name: Motif 74

Original motif Consensus sequence: CACTTCCTAGATGG

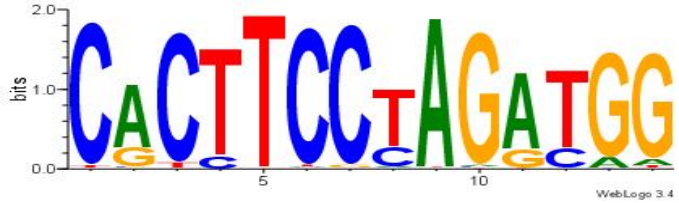

Reverse complement motif Consensus sequence: CCATCTAGGAAGTG

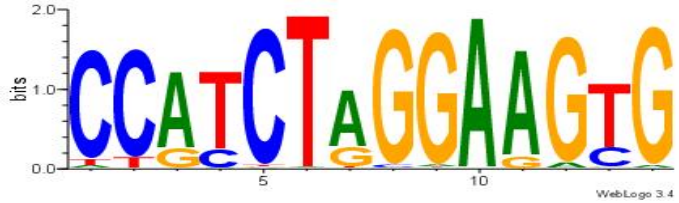

Best Matches for Motif ID 74 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 1
Number of overlap: 14
Similarity score: 0.0286091

Alignment:
CACTTCCCAGACGGGGCG
CACTTCCTAGATGG----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

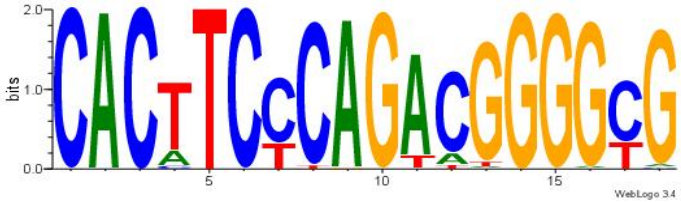

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

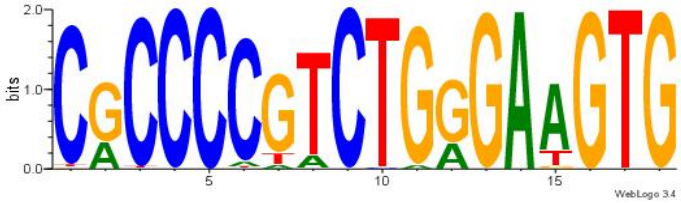

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0523125

Alignment:
ACCCYGTCTGGGAGGTG
---CCATCTAGGAAGTG

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

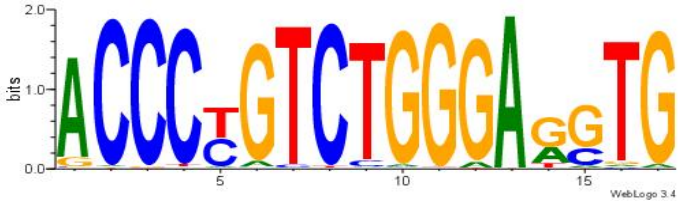

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

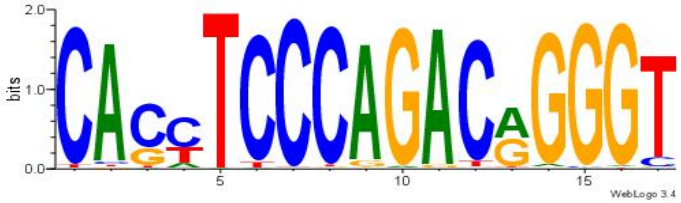

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0563676

Alignment:

```
TGCCCAGTCTGGAAAGTG
CCATCTAGGAAGTG----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

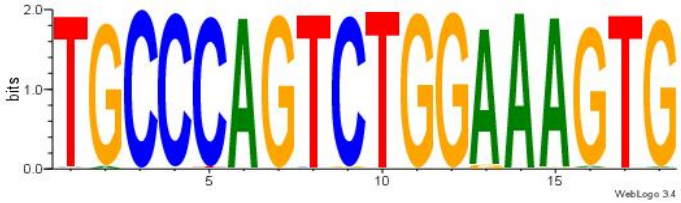

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

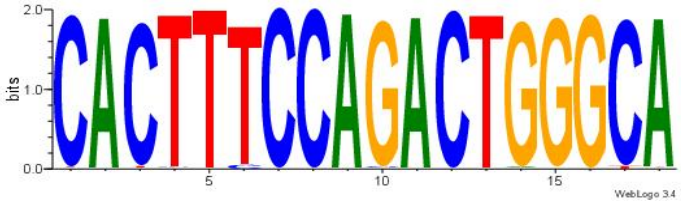

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0605408

Alignment:

```
CTTGCGCTTCCCRRGTGA
----CACTTCCTAGATGG
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

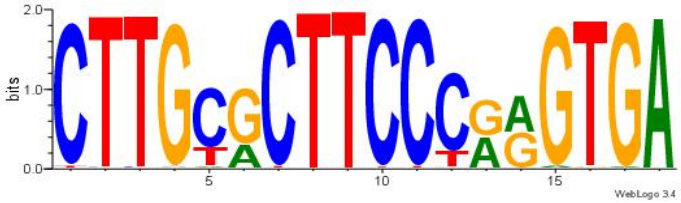

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

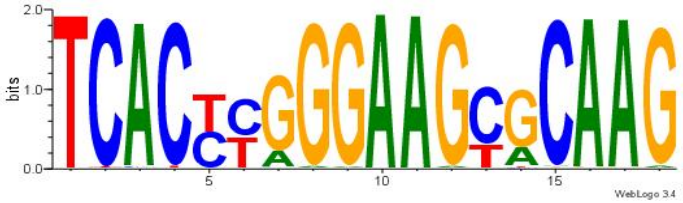

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.0688109

Alignment:
TCCCTCCCGGACGGGGYGGC
-CCATCTAGGAAGTG-----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

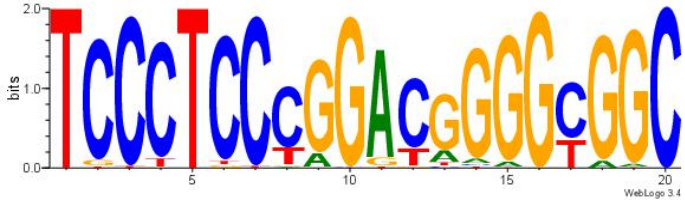

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

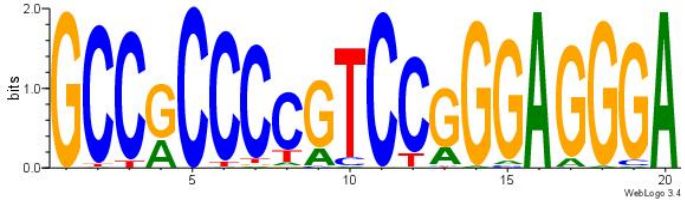

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0783445

Alignment:
TTMGTCCCAGAGGGGCACC
CACTTCCTAGATGG-----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

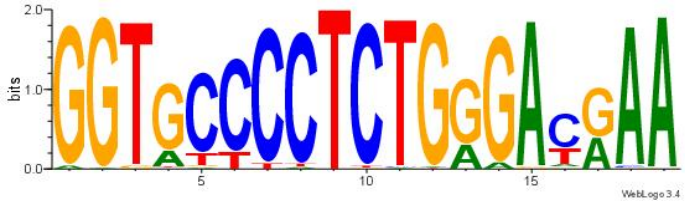

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

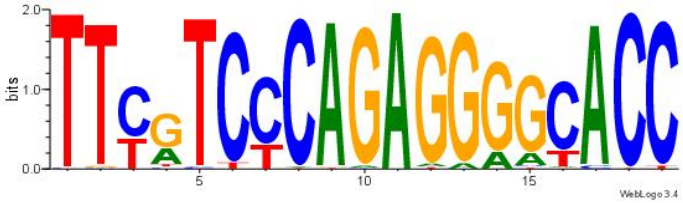

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0831946

Alignment:

```
GCTGCARTCTCGGCACTTT
----CCATCTAGGAAGTG-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

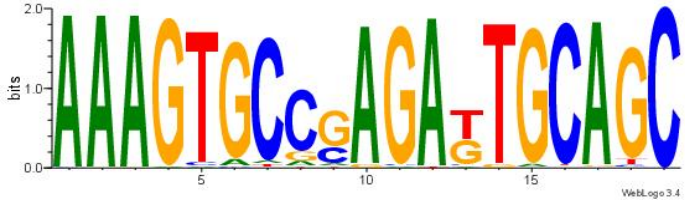

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

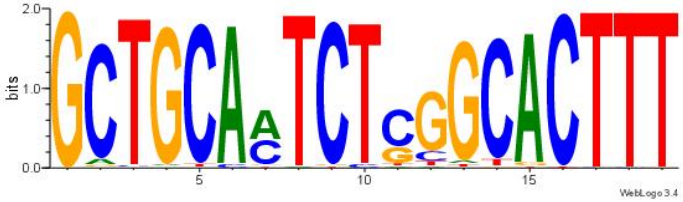

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0844368

Alignment:

```
AAGACCTTCCAGTGGGACAA
--CACTTCCTAGATGG----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

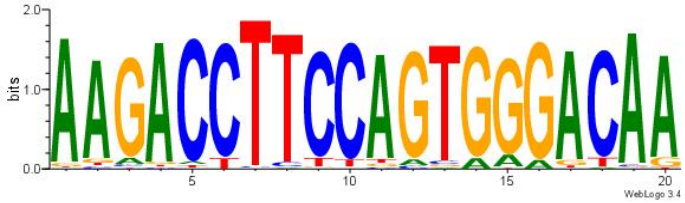

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

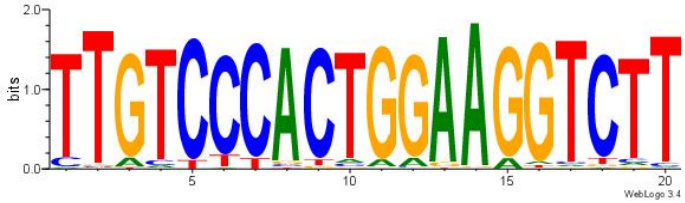

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.085019

Alignment:
GCTCCACCCAGTTCGAGCTT
-CACTTCCTAGATGG-----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

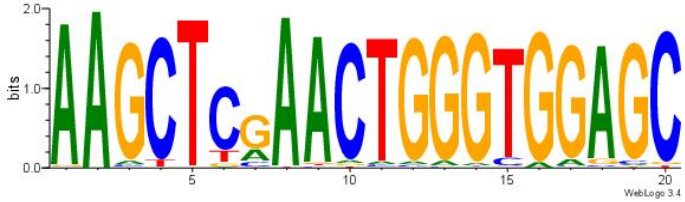

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

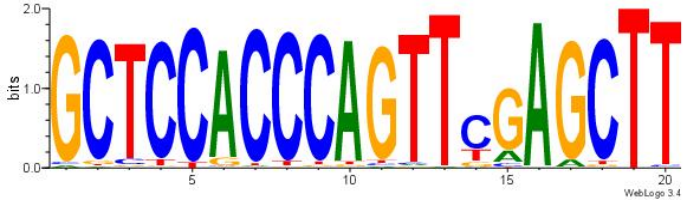

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0871379

Alignment:
GCCCTCACCAGAAGC
-CACTTCCTAGATGG

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

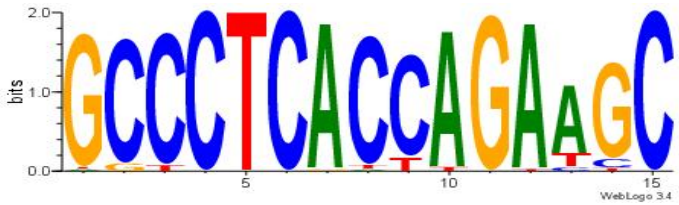

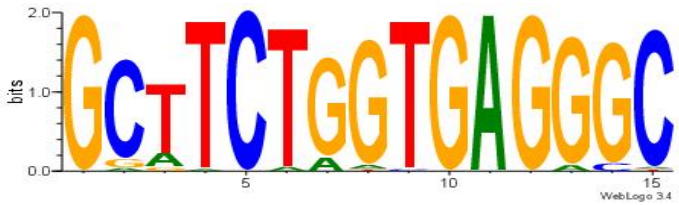

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0883

Alignment:

```
AGGGATCTAGGTTGCR
--CCATCTAGGAAGTG
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

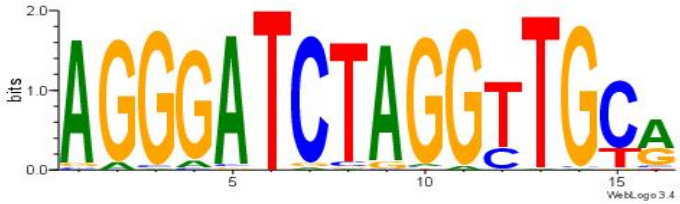

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

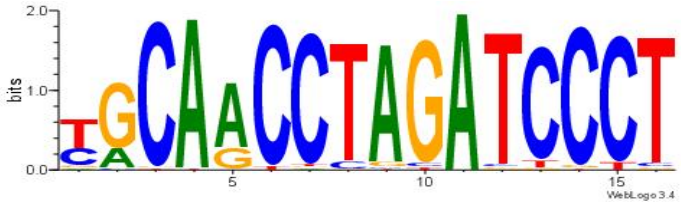

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0885905

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-CCATCTAGGAAGTG-----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

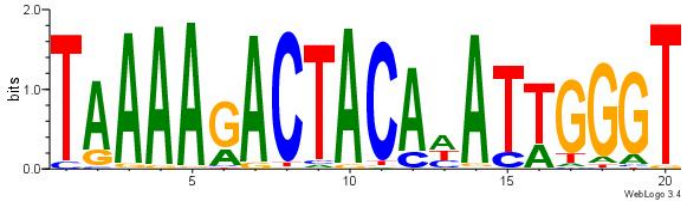

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

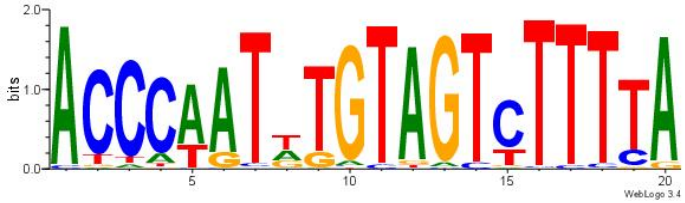

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0888581

Alignment:
CMCAGTTCACAATAGGGTT
--CACTTCCTAGATGG---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

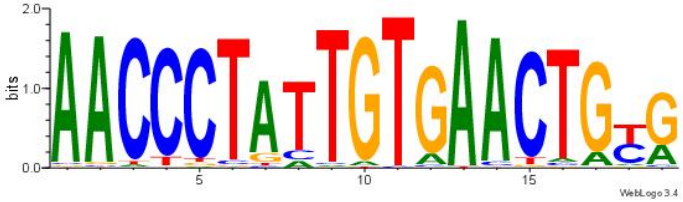

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

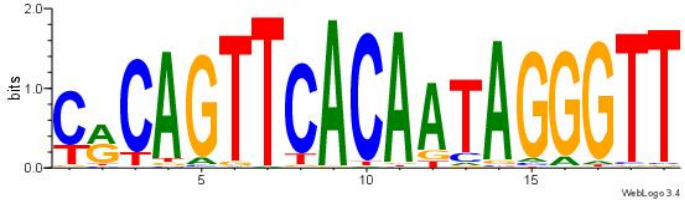

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0902566

Alignment:
GGATTTMKGACTTGCATGGG
CCATCTAGGAAGTG------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

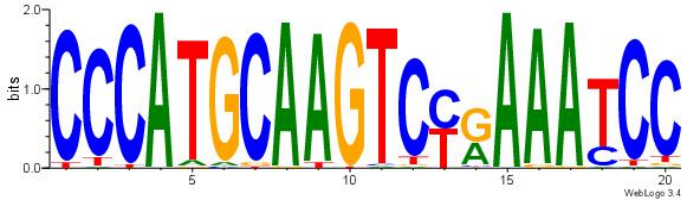

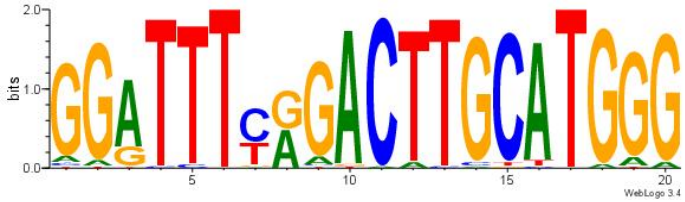

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0908115

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--CACTTCCTAGATGG----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

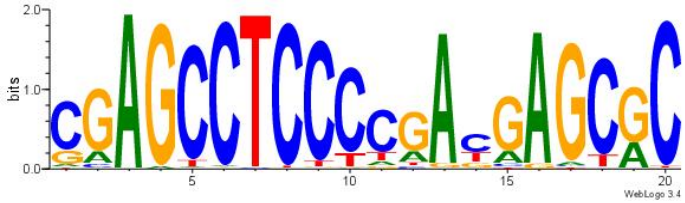

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

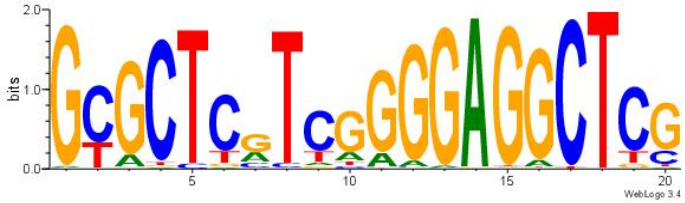

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0926383

Alignment:

```
MTCCTCCAGACCCCAGAATG
------CACTTCCTAGATGG
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

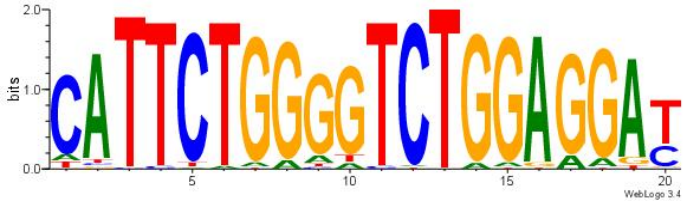

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

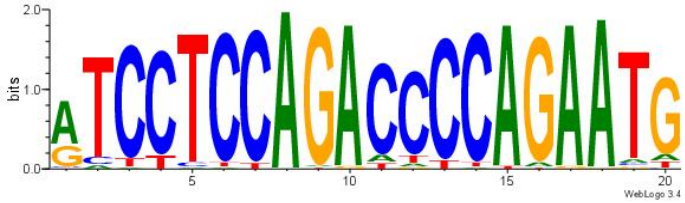

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.0929043

Alignment:
GCCGTTTKTTAAGCCCGTY
----CCATCTAGGAAGTG-

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

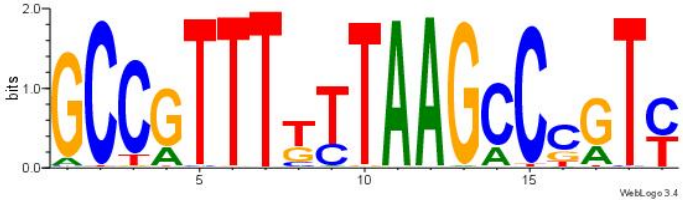

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

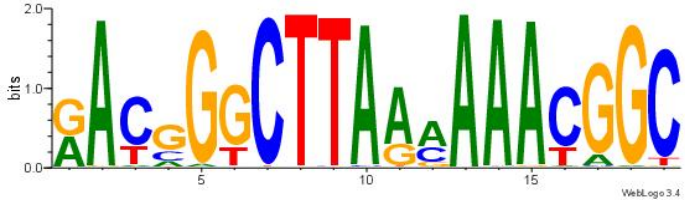

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.0929622

Alignment:
CCCTGCTAGAACCTCCAA
-CCATCTAGGAAGTG---

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

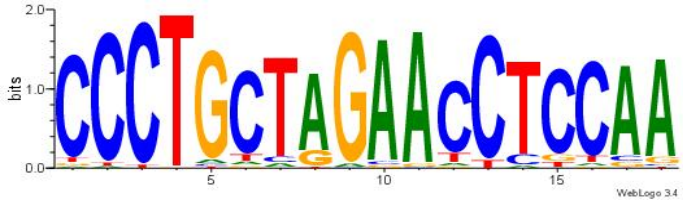

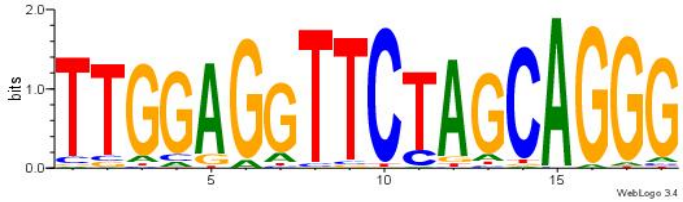

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0930728

Alignment:

```
ACTCCCTAGTGAGATGAACC
---CACTTCCTAGATGG---
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

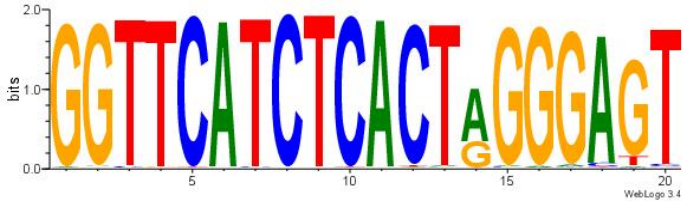

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

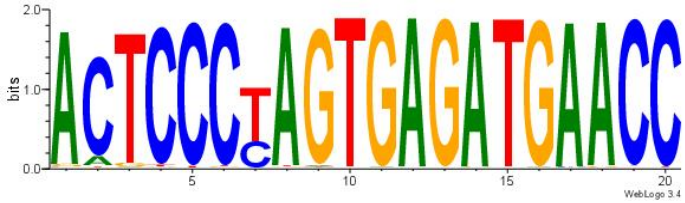

Dataset #: 1

Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0931863

Alignment:

```
CCGCACTCGGAGCRG
-CCATCTAGGAAGTG
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

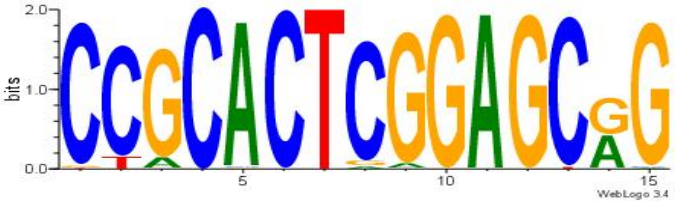

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

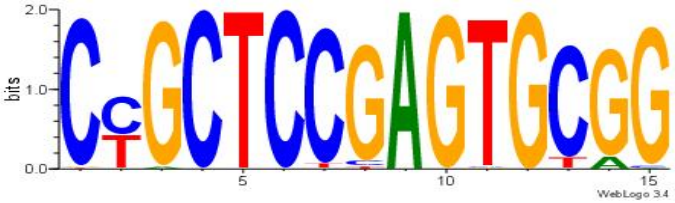

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.0934065

Alignment:
AGGTCCTTCAGGAGGTATTC
---CCATCTAGGAAGTG---

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

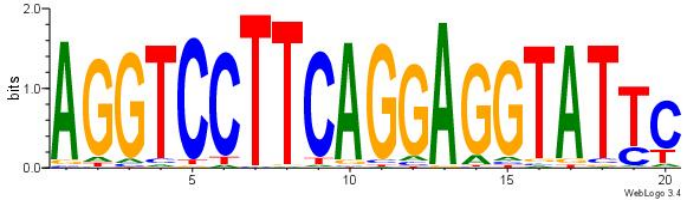

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

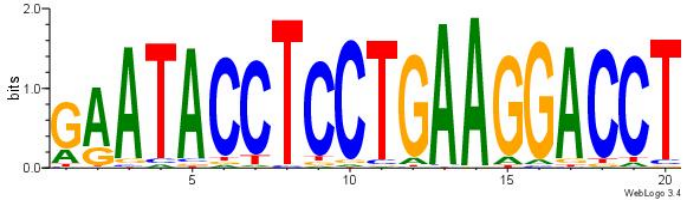

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0958136

Alignment:
GACTTCAAGAATGAAGCCG
CACTTCCTAGATGG-----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

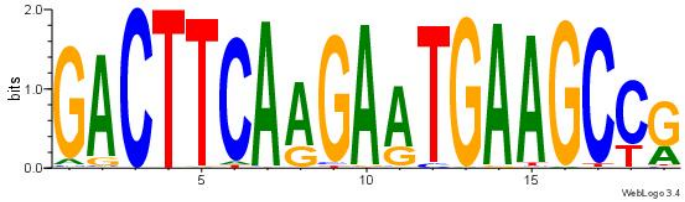

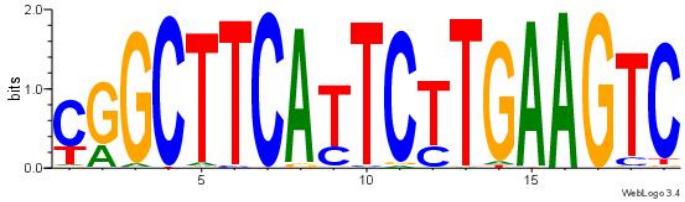

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.09801

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
----CCATCTAGGAAGTG--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

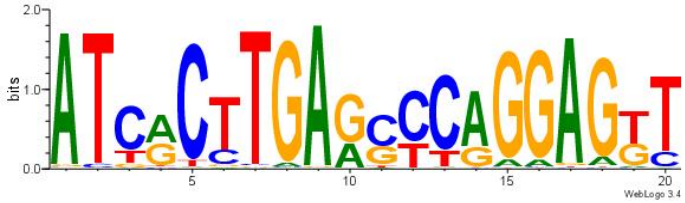

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

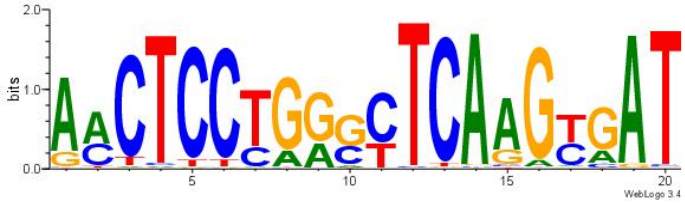

Dataset #:	1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0980742

Alignment:

```
CCCAAATCCTATAAAA
--CACTTCCTAGATGG
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

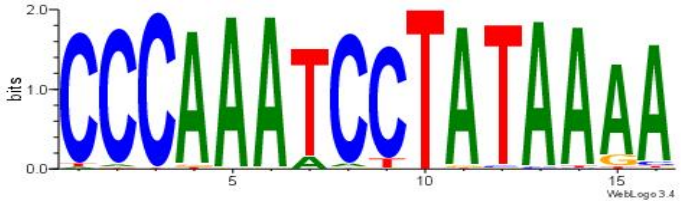

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

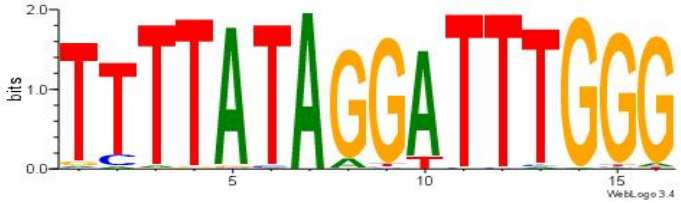

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.0983365

Alignment:
CATTATGCTAARTG
CCATCTAGGAAGTG

Original motif Consensus sequence: CATTATGCTAARTG

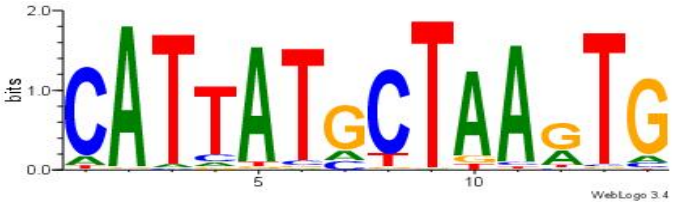

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

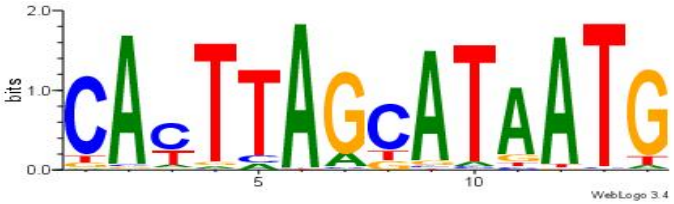

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0983445

Alignment:
AGCAGYTTGGAAACACT
-CCATCTAGGAAGTG--

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

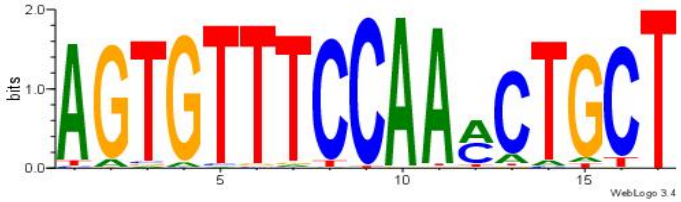

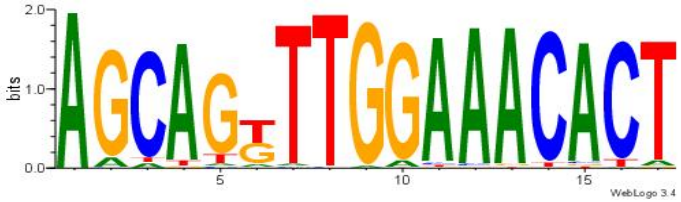

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0989637

Alignment:

```
AAAACCAGCAAGTTTTTAT
CCATCTAGGAAGTG-----
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

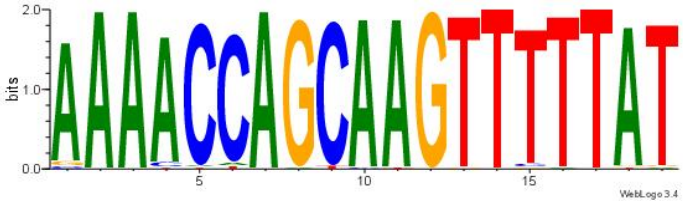

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

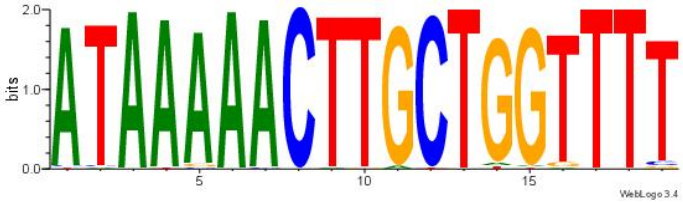

Dataset #: 1

Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0990731

Alignment:

```
CTCTGCCCGGCCGC
CACTTCCTAGATGG
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

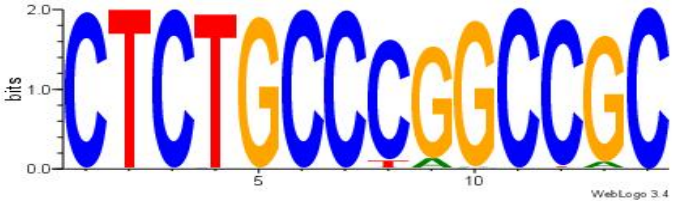

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

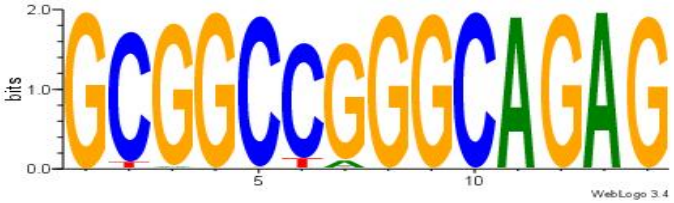

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0992638

Alignment:
GTAACACTCACCGCGARGGT
----CACTTCCTAGATGG--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

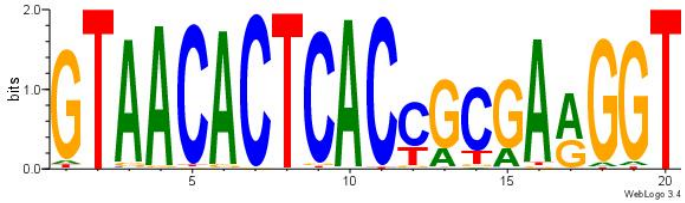

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

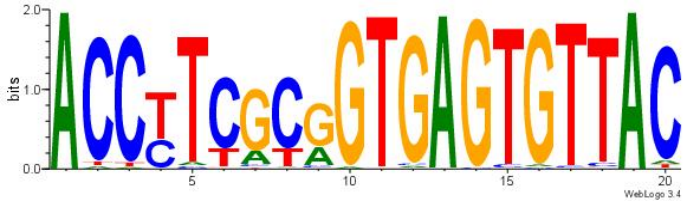

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0998779

Alignment:
GTTTAACCATTGAGGGCCAG
------CCATCTAGGAAGTG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

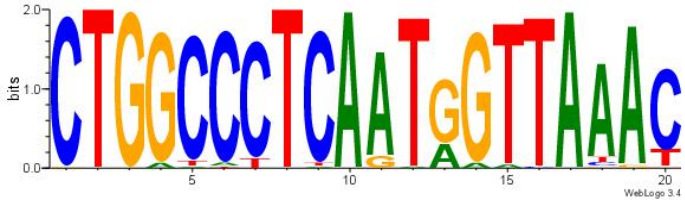

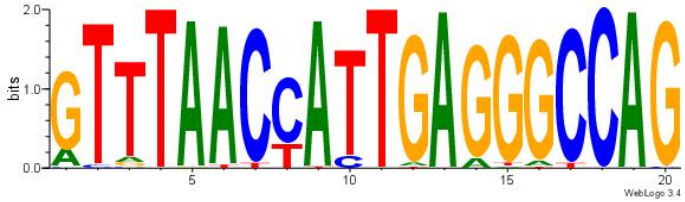

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.100331

Alignment:

```
CCTTGGCCAGCCCAGAAAG
-----CACTTCCTAGATGG
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

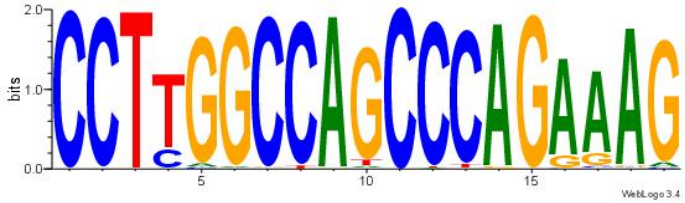

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

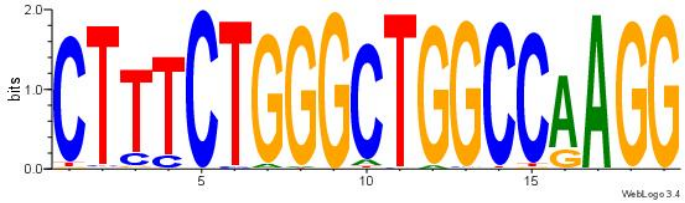

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.100989

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-CACTTCCTAGATGG-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

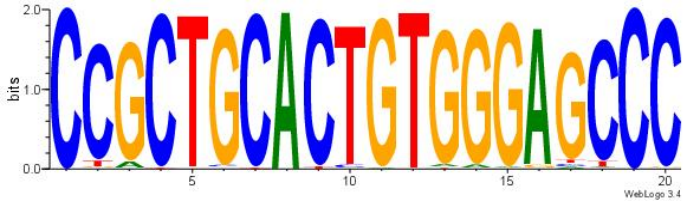

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

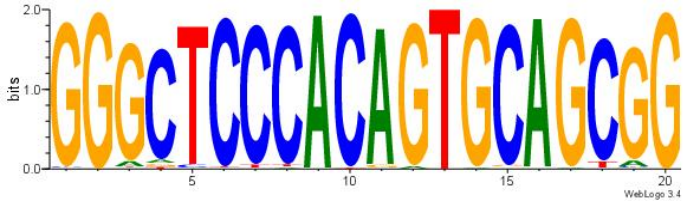

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.101732

Alignment:
AGAGCCAAATCATGARTGAA
----CCATCTAGGAAGTG--

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

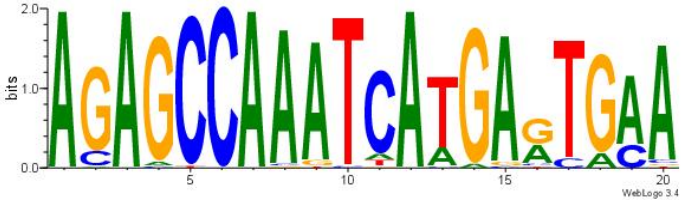

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

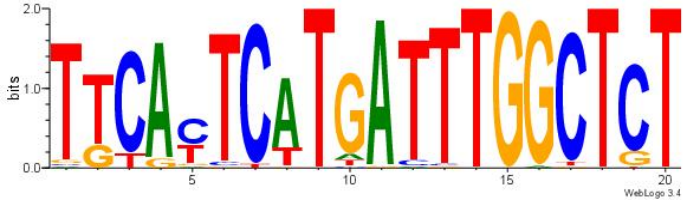

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.101835

Alignment:
GAAHCAACCKAAKTGTCCAT
----CACTTCCTAGATGG--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

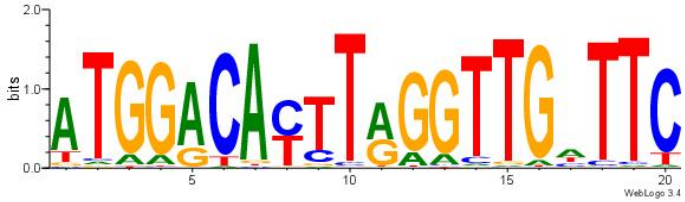

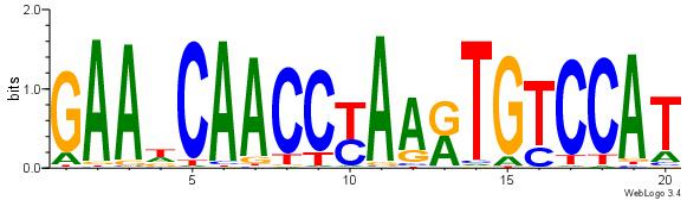

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.102082

Alignment:

```
GTACCTCAGWTGGAAATG
----CCATCTAGGAAGTG
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

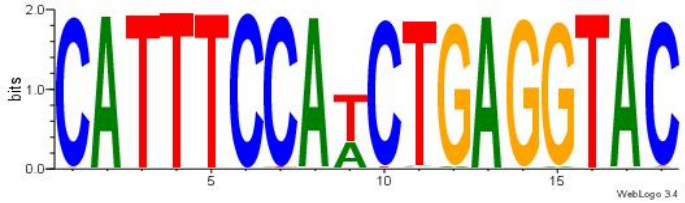

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

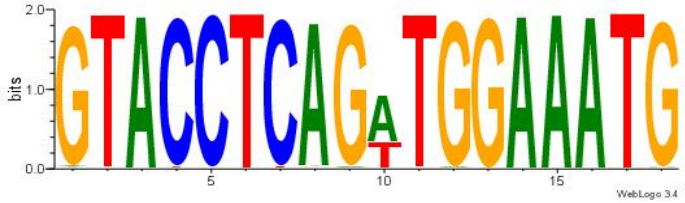

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.102151

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-----CACTTCCTAGATGG-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

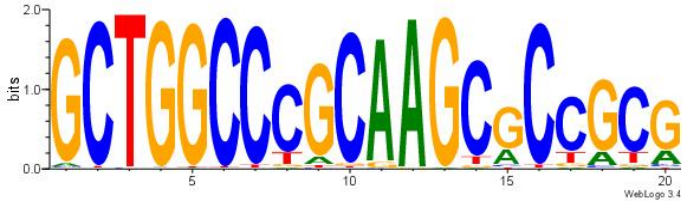

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

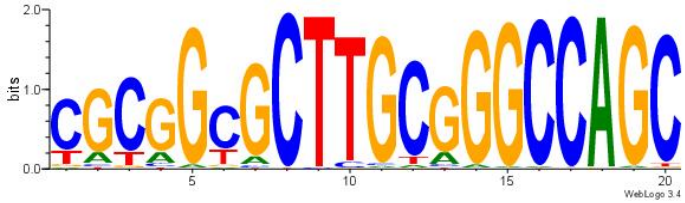

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.102861

Alignment:
GCAWSTGCAAAGGCCCT
CCATCTAGGAAGTG---

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

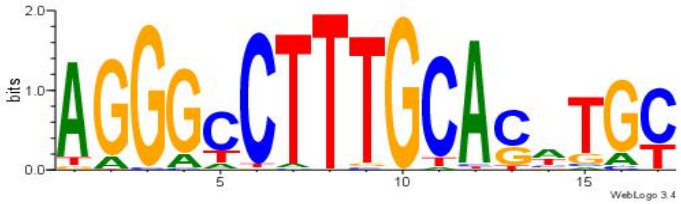

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

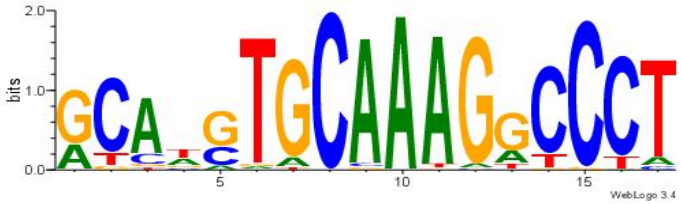

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.1034

Alignment:
GCCAATTTCTCCCATTTGGA
-----CACTTCCTAGATGG-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

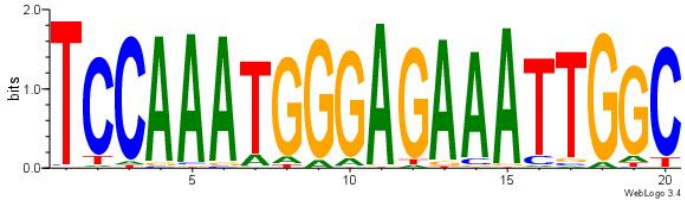

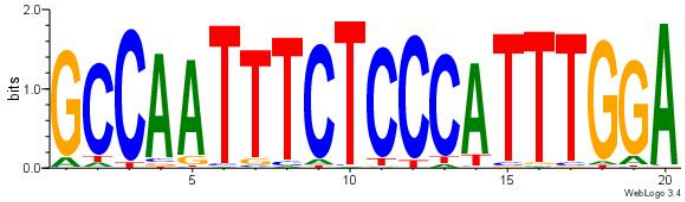

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.103815

Alignment:

```
ACACATCACAAAGCAGTTTC
-CACTTCCTAGATGG-----
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

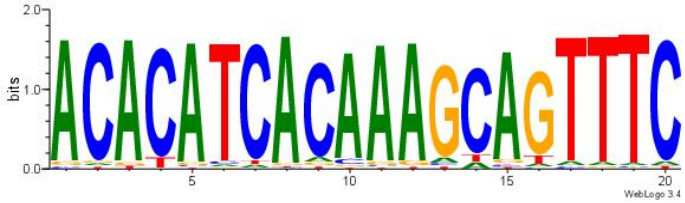

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

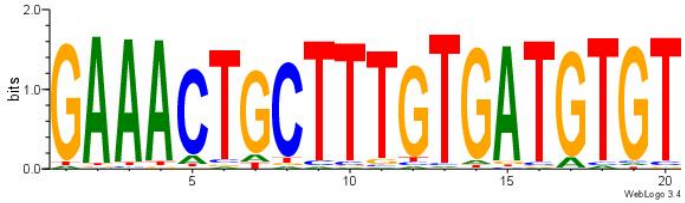

Dataset #: 1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.10452

Alignment:

```
ATTCAASATGAGATTTGGG
---CCATCTAGGAAGTG--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

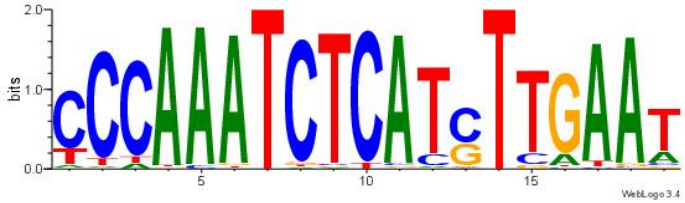

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

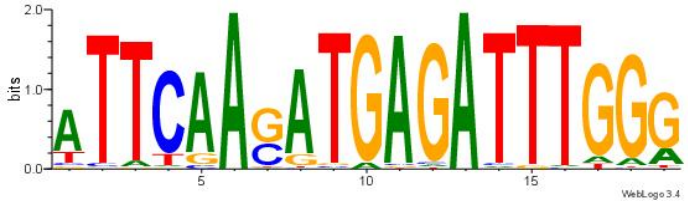

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.104702

Alignment:
CCTGCCATTGCYSAGGCTTG
-----CACTTCCTAGATGG-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

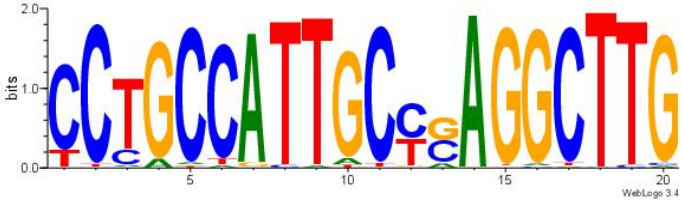

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

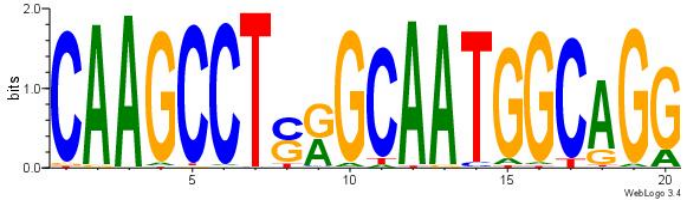

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.104982

Alignment:
AGTAGGTGCTCARTAAATRB
------CACTTCCTAGATGG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

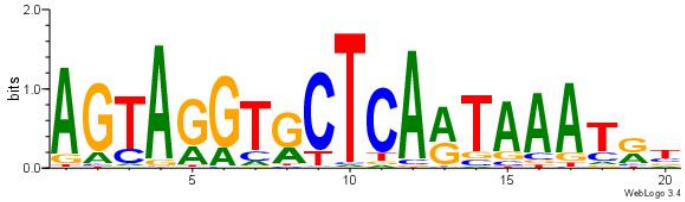

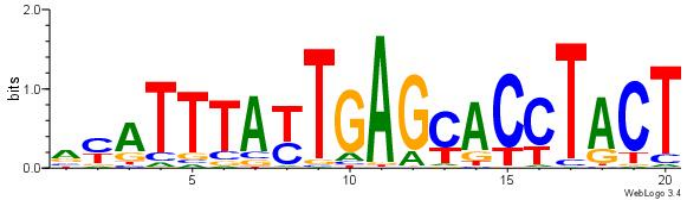

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.105095

Alignment:

```
GTGGCCCTCTTCTCACAGCT
------CACTTCCTAGATGG
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

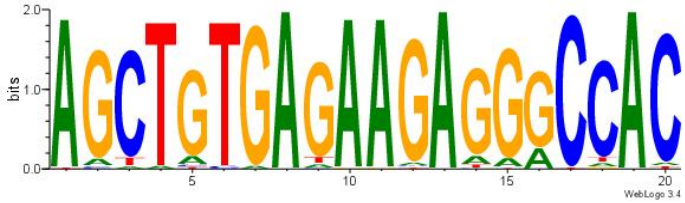

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

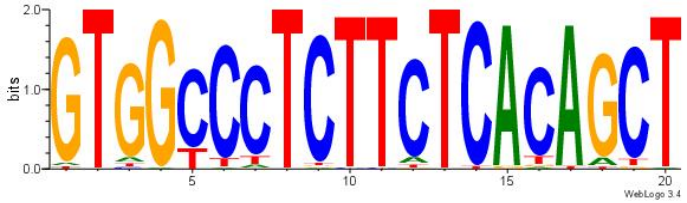

Dataset #:	1

Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.105444

Alignment:

```
GGCCMGCAGGGCKGGC
--CCATCTAGGAAGTG
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

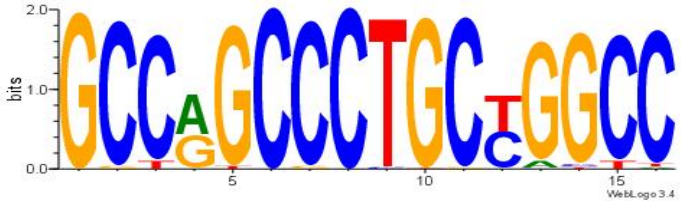

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

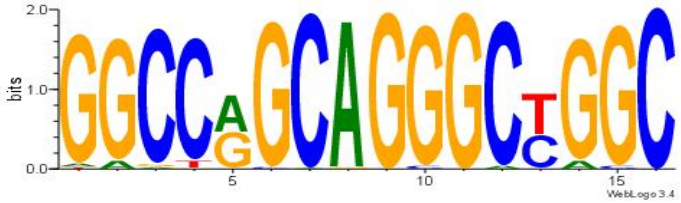

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.105486

Alignment:
CCCCGGGCAGTGAGGG
--CCATCTAGGAAGTG

Original motif Consensus sequence: CCCTCACTGCCCGGGG

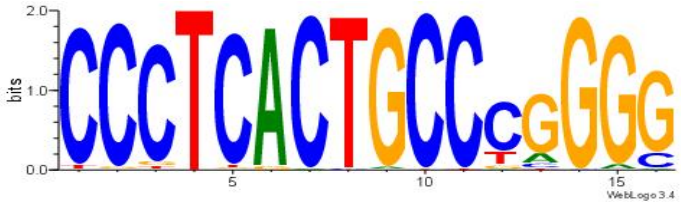

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

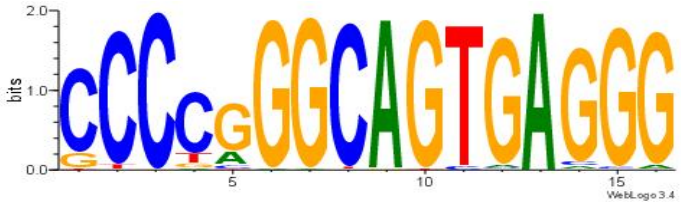

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.105683

Alignment:
MCCYGGCWSMGASGSTCCT
----CACTTCCTAGATGG-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

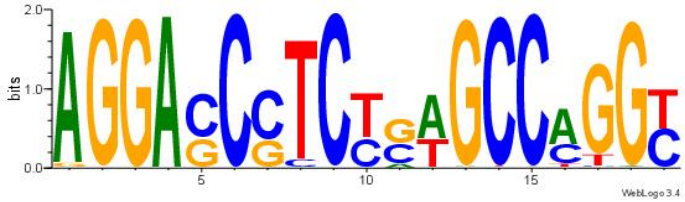

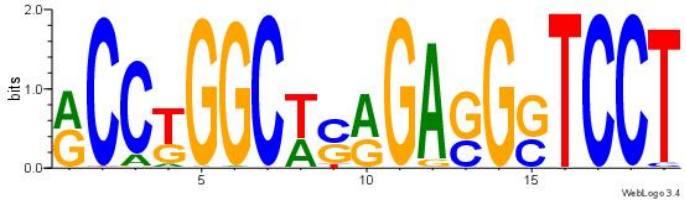

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.106223

Alignment:

```
AGGTTTGTTACATAGGTAWA
-CACTTCCTAGATGG-----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

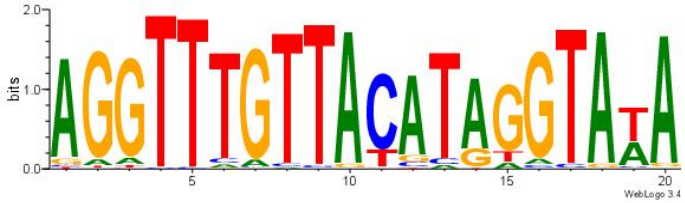

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

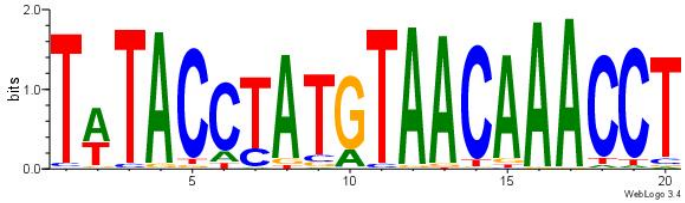

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.10661

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-CCATCTAGGAAGTG-----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

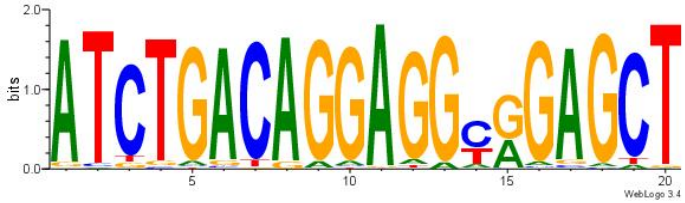

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

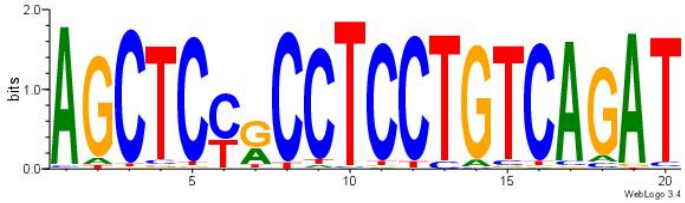

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.106695

Alignment:
GGGAGGTGTCTCCCAGTCAG
------CACTTCCTAGATGG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

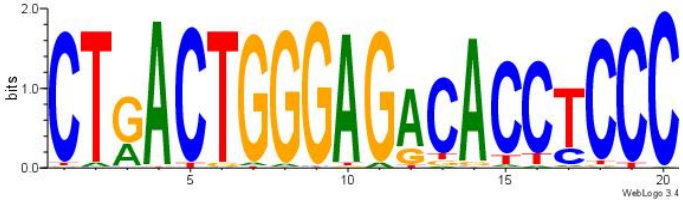

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

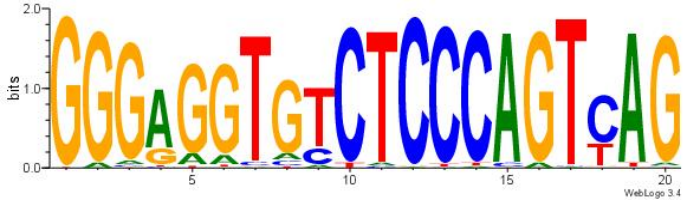

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.106925

Alignment:
CGCCCATCGTCTGGGATGT
CACTTCCTAGATGG-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

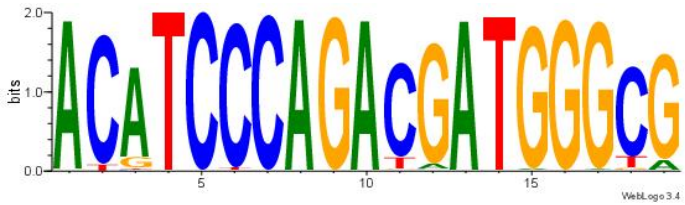

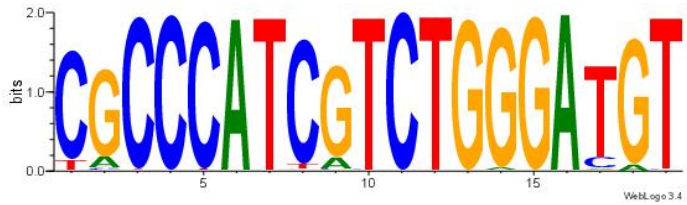

Dataset #: 1 **Motif ID: 75** **Motif name: Motif 75**

Original motif Consensus sequence: CATGGAGCGGKK

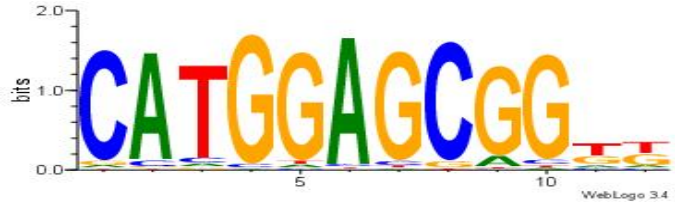

Reverse complement motif Consensus sequence: RRCCGCTCCATG

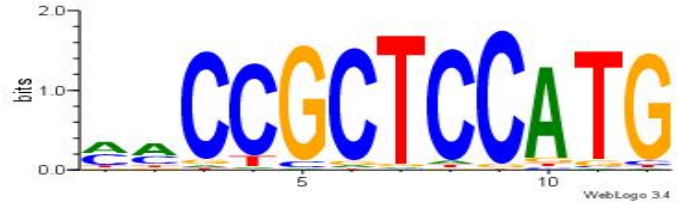

Best Matches for Motif ID 75 (Highest to Lowest)

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0720918

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
----CATGGAGCGGKK----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

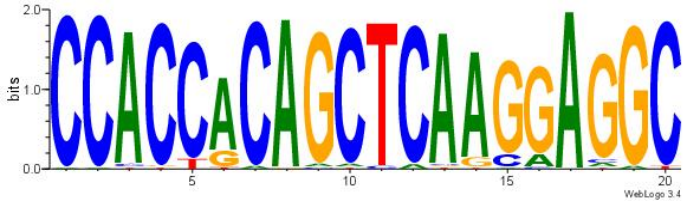

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

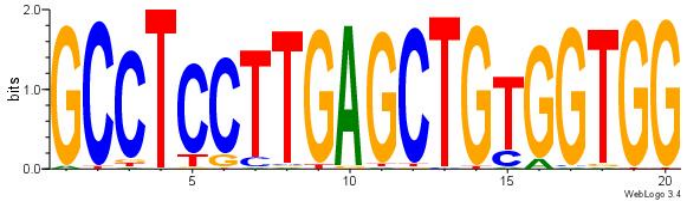

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0764369

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-RRCCGCTCCATG-------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

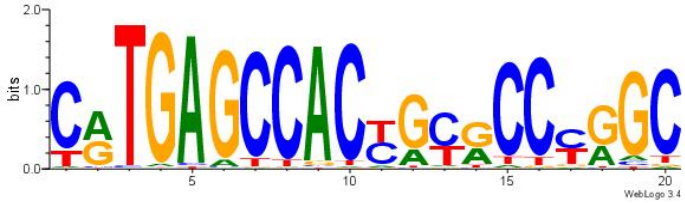

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

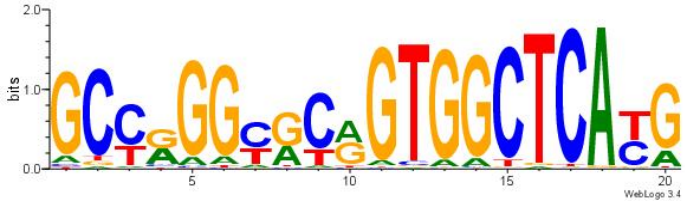

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0782422

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--------CATGGAGCGGKK
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

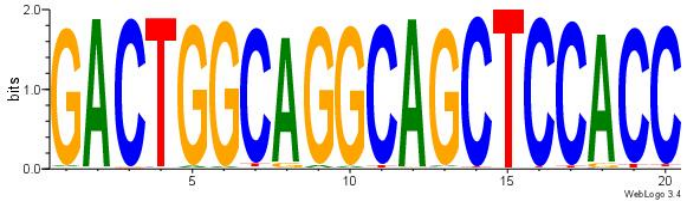

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

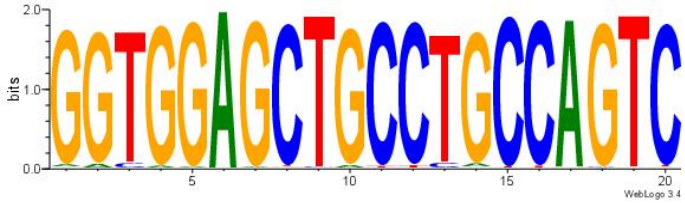

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 12
Similarity score: 0.0795317

Alignment:
GCCAGGCAGAGRGKCTCCT
--CATGGAGCGGKK-----

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

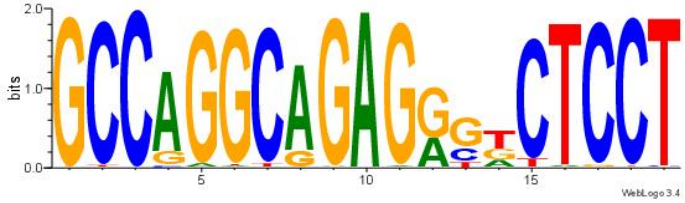

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

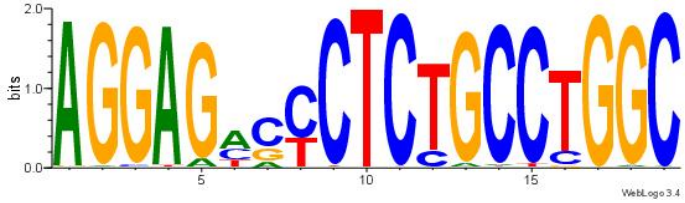

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0797618

Alignment:
CATGGCGGGCTGCAGGTC
CATGGAGCGGKK------

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

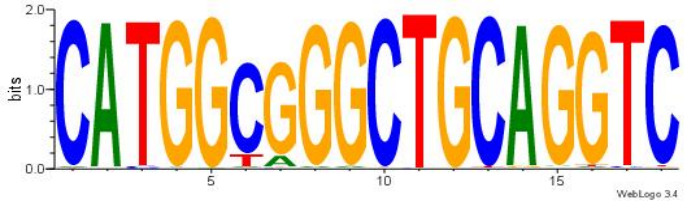

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

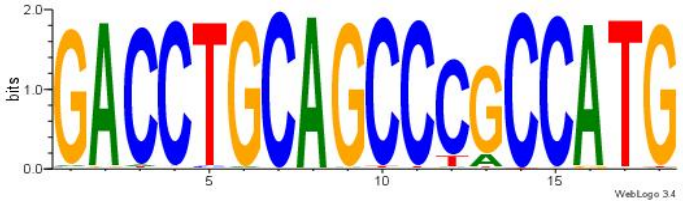

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0820416

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
---RRCCGCTCCATG-----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

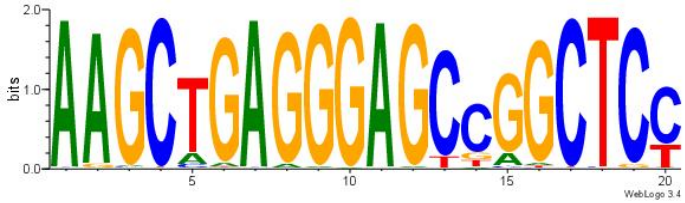

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

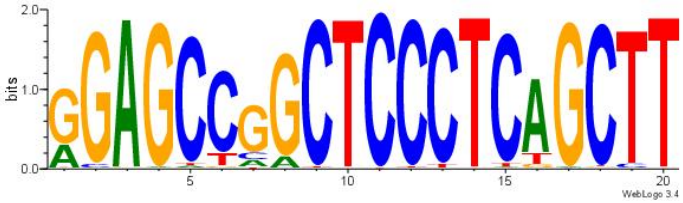

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.082778

Alignment:

```
GTAGACKGGAGCTGTTCCT
---CATGGAGCGGKK----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

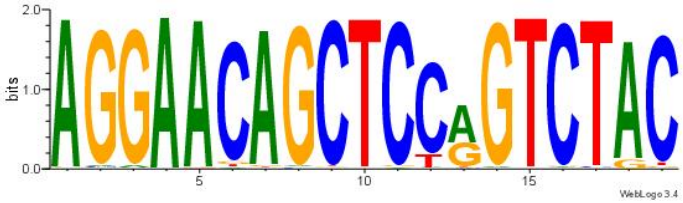

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

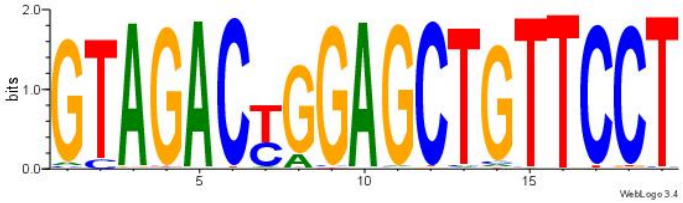

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 12
Similarity score: 0.0838376

Alignment:
TGCTGGAGGTCCACTCCAGA
--------RRCCGCTCCATG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

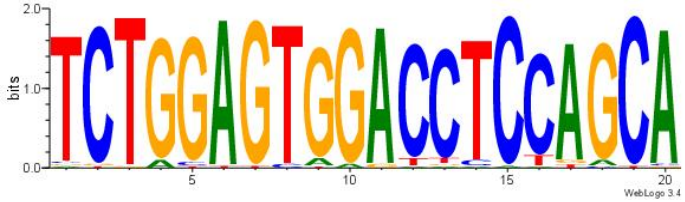

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

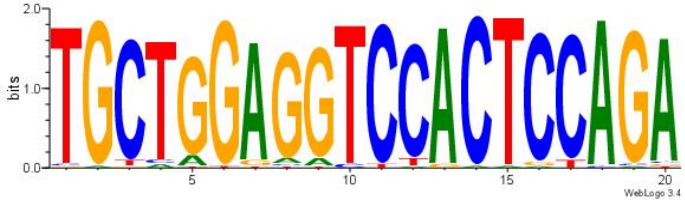

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0848607

Alignment:
CTCCAGKTMCATCCATGTTG
-----RRCCGCTCCATG---

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

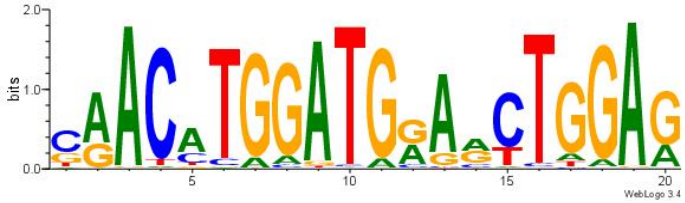

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

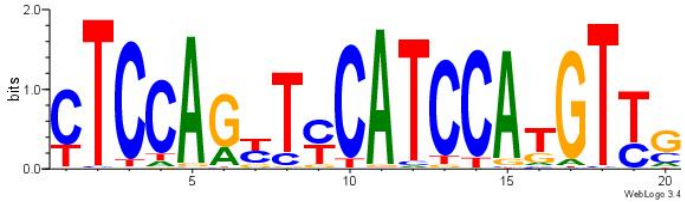

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0856133

Alignment:

```
GCCACCAMGCCMKGCTAAT
--RRCCGCTCCATG-----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

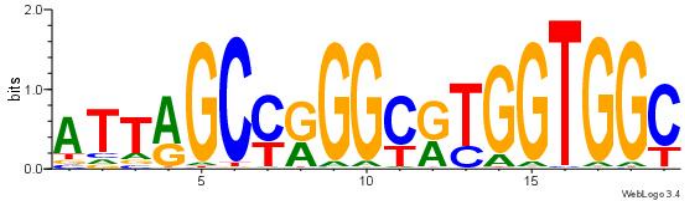

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

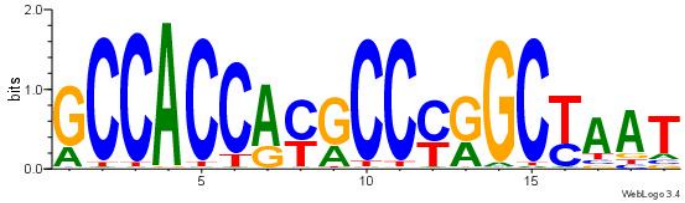

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0863278

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-----RRCCGCTCCATG---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

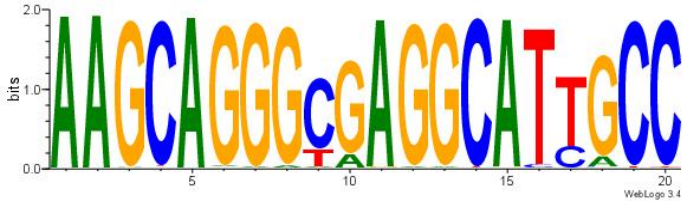

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

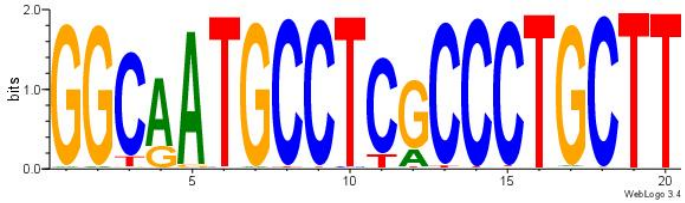

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0867403

Alignment:
GCAGTGAGCYRAGA
-CATGGAGCGGKK-

Original motif Consensus sequence: GCAGTGAGCYRAGA

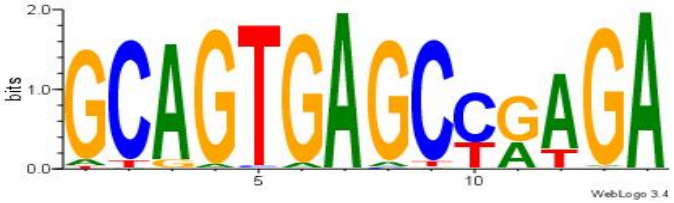

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

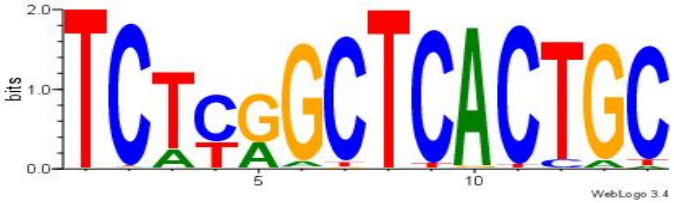

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 12
Similarity score: 0.0875633

Alignment:
CCCGAAGCTGCRYRCTCGGT
CATGGAGCGGKK--------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

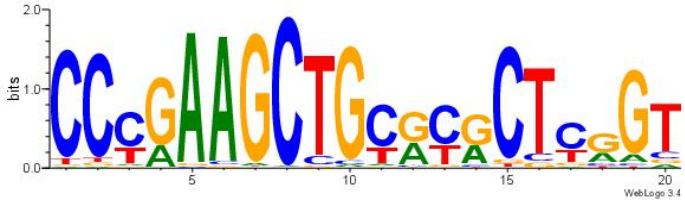

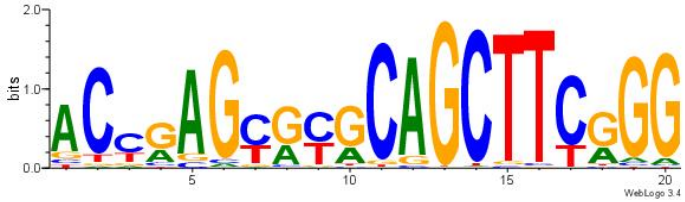

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0895574

Alignment:

```
ACACATCACAAAGCAGTTTC
------CATGGAGCGGKK--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

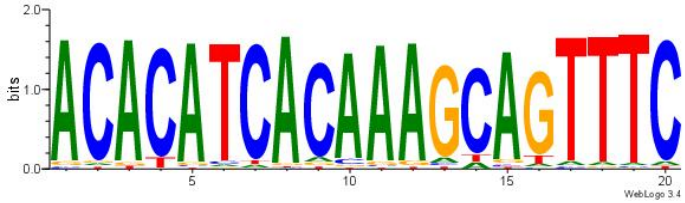

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

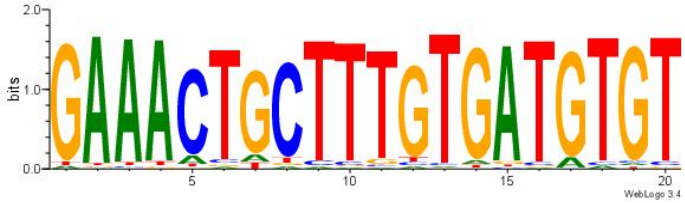

Dataset #:	1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0907685

Alignment:

```
CCTTTGACTCCATGTC
--RRCCGCTCCATG--
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

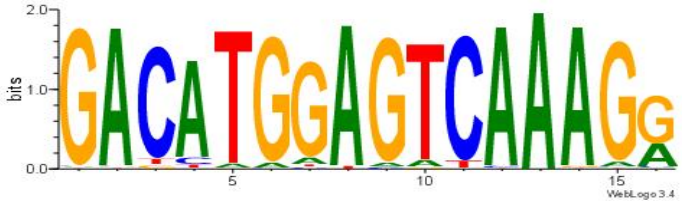

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

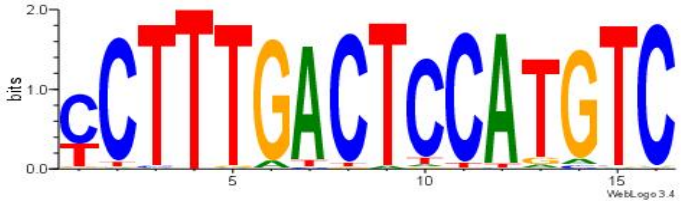

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.0911034

Alignment:
AGAAATCGAGCRCAGCGCCG
---CATGGAGCGGKK-----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

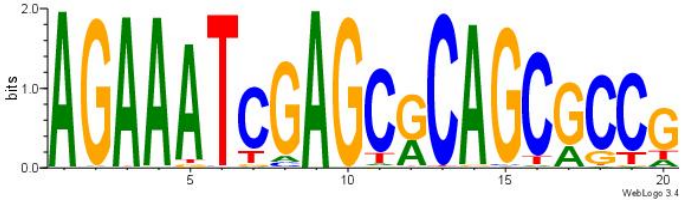

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

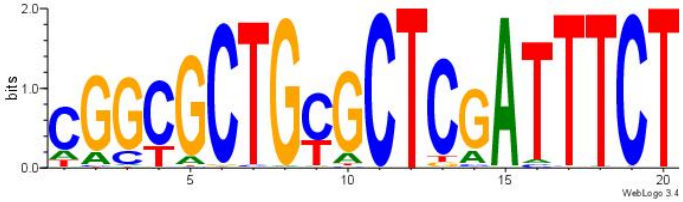

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0919916

Alignment:
TAGATAATAGCTCCAGCTTT
-----RRCCGCTCCATG---

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

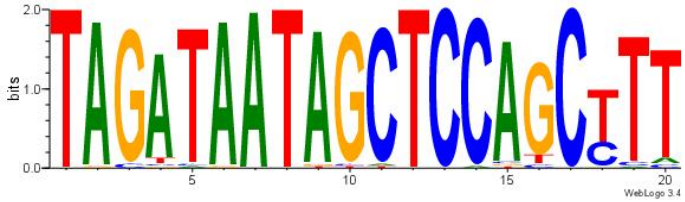

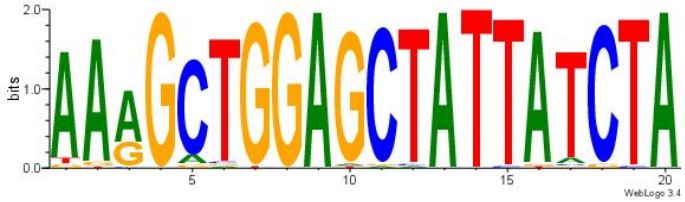

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0926329

Alignment:

```
GCCCTCACCATCC
RRCCGCTCCATG-
```

Original motif Consensus sequence: GCCCTCACCATCC

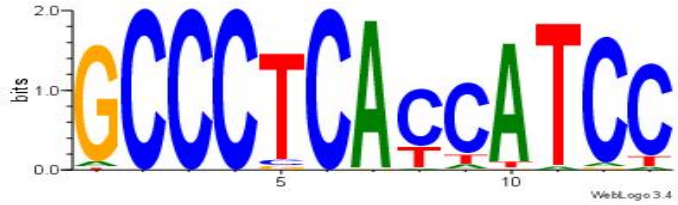

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

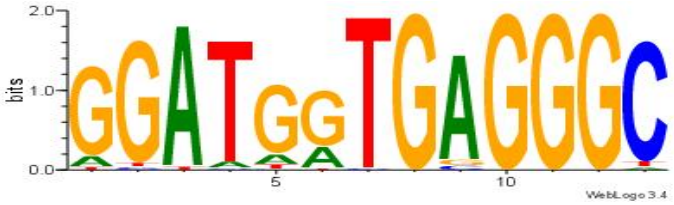

Dataset #:	1
Motif ID:	332

Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0934826

Alignment:

```
CTGGCCCTCAATGGTTAAAC
-RRCCGCTCCATG-------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

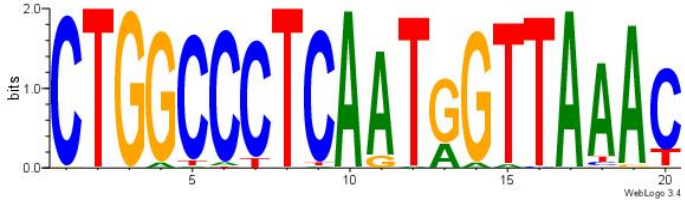

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

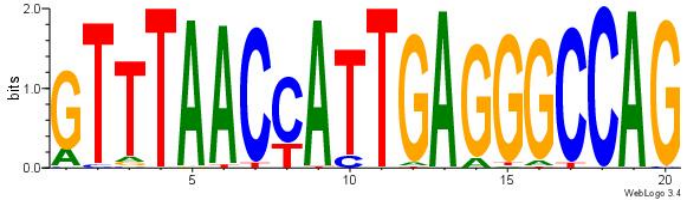

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0938303

Alignment:
TGGATGGATGGATGGAT
--CATGGAGCGGKK---

Original motif Consensus sequence: ATCCATCCATCCATCCA

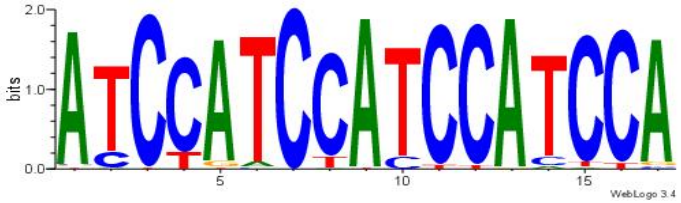

Reverse complement motif Consensus sequence:
TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.094777

Alignment:
TCCCTCCCGGACGGGGYGGC
-----CATGGAGCGGKK---

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

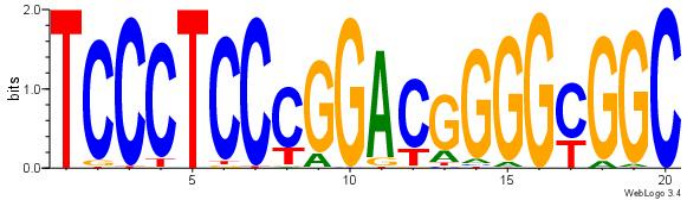

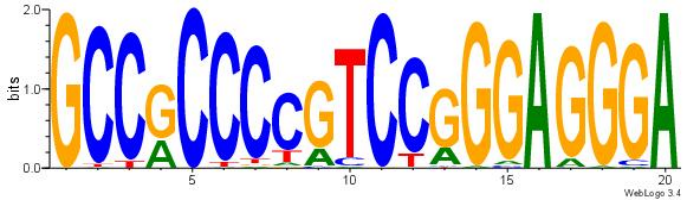

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0950448

Alignment:

```
ATCTGACAGGAGGYRGAGCT
------CATGGAGCGGKK--
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

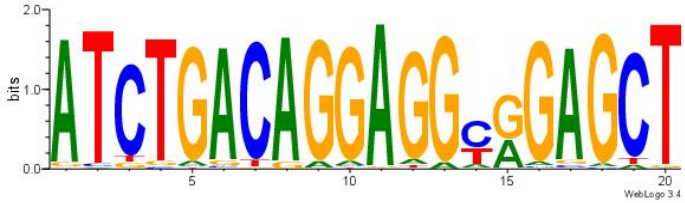

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

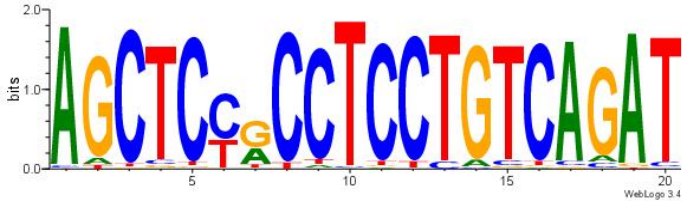

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0953526

Alignment:

```
GCACATGTAYCCYAGAACTT
---CATGGAGCGGKK-----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

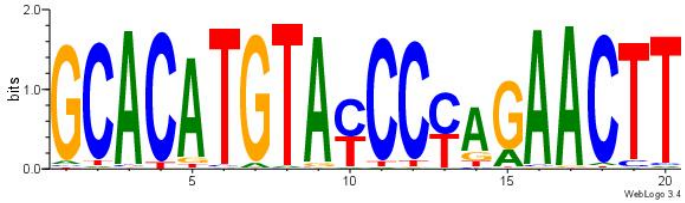

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

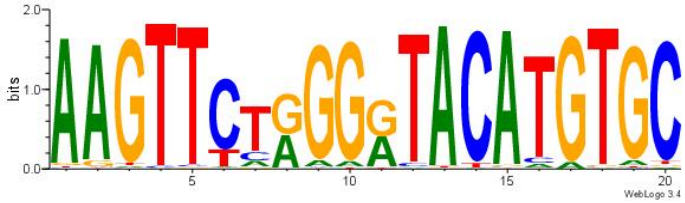

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0959359

Alignment:
GGGGGCTGACCCCCCCACC
-------RRCCGCTCCATG

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

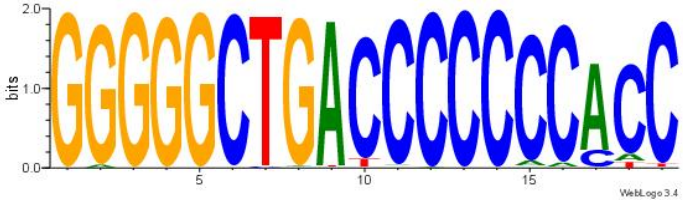

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

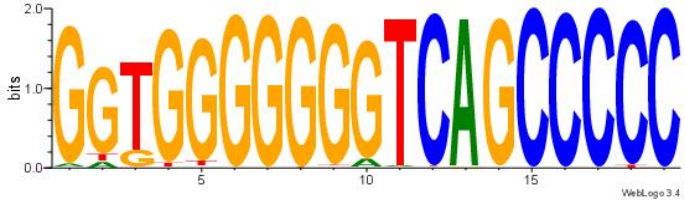

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.096047

Alignment:
GCTGGAGTGCAGTGGCRYGA
-----CATGGAGCGGKK---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

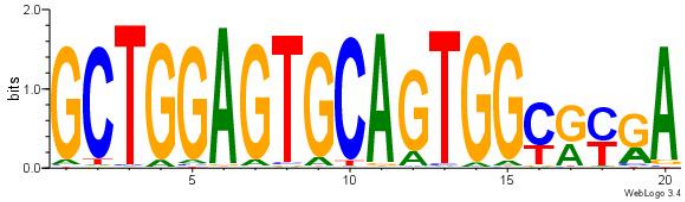

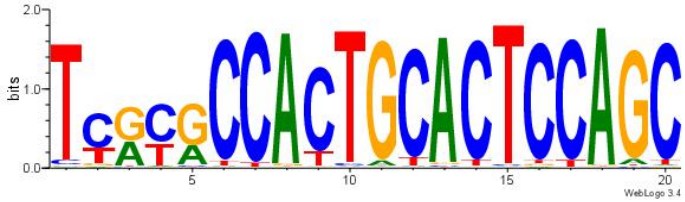

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0971517

Alignment:

```
MTCCTCCAGACCCCAGAATG
--------RRCCGCTCCATG
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

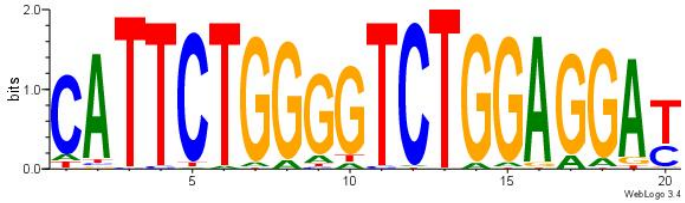

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

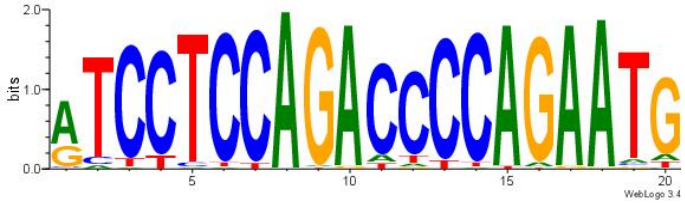

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0979193

Alignment:

```
AGTAGGTGCTCARTAAATRB
---RRCCGCTCCATG-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

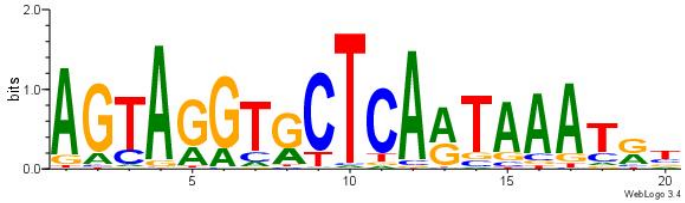

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

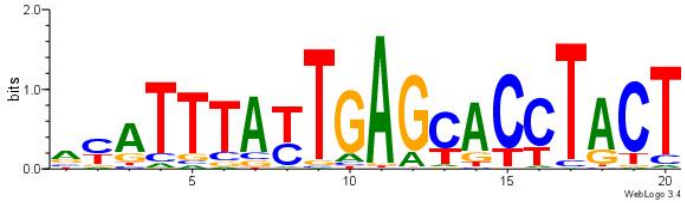

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0985352

Alignment:
CCGCGGGGCAGGGCTCG
-CATGGAGCGGKK----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

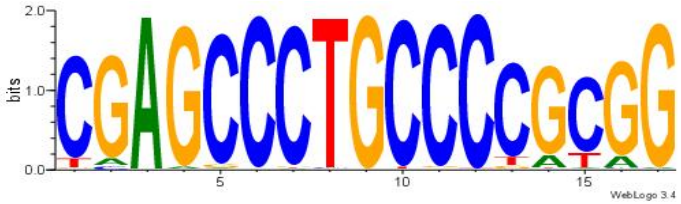

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

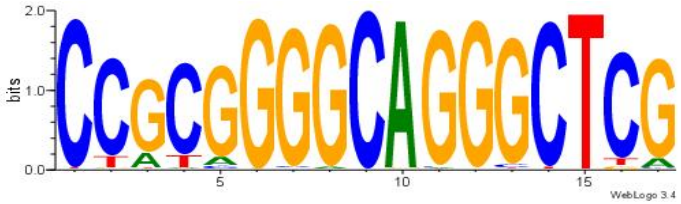

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0996862

Alignment:
GCTGGAGTGCAGTG
CATGGAGCGGKK--

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

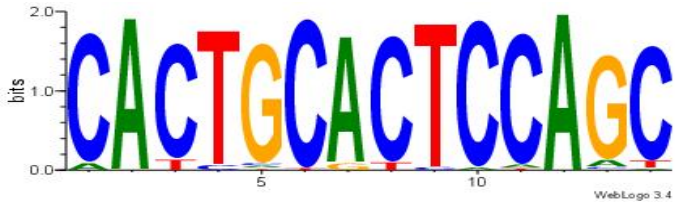

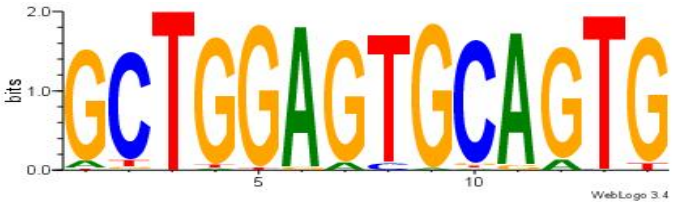

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0998976

Alignment:

```
TGGGCTGCCAGATG
--RRCCGCTCCATG
```

Original motif Consensus sequence: CATCTGGCAGCCCA

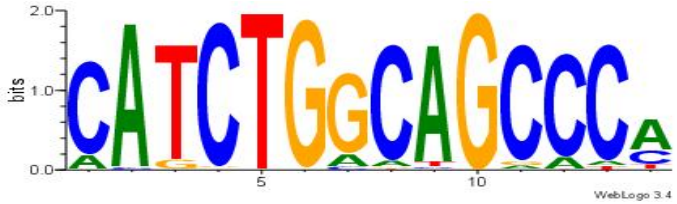

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

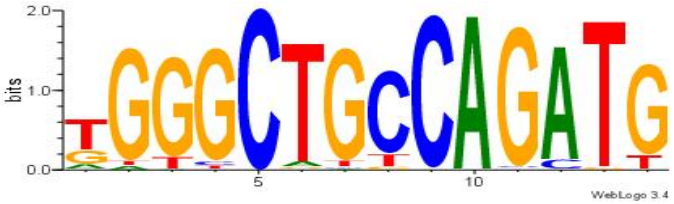

Dataset #:	1
Motif ID:	192

Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.10029

Alignment:

```
ACAGGCTGTCCCAGGATTC
---RRCCGCTCCATG----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

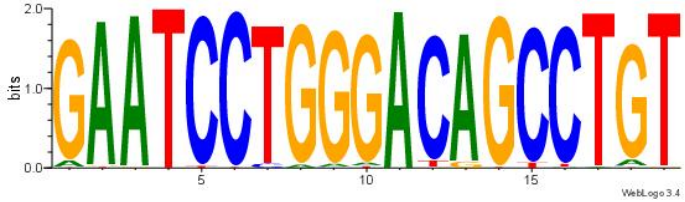

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

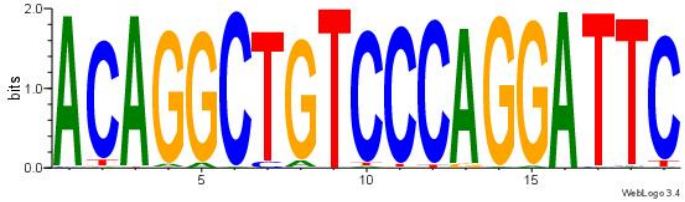

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.100482

Alignment:
CTTGGGTGGTCGATGGGAC
---RRCCGCTCCATG----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

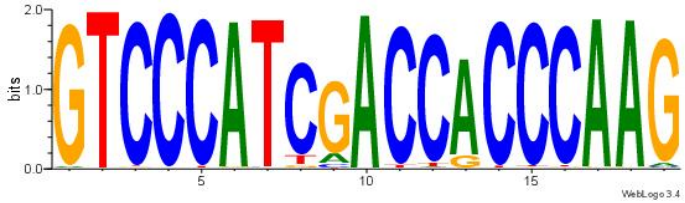

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

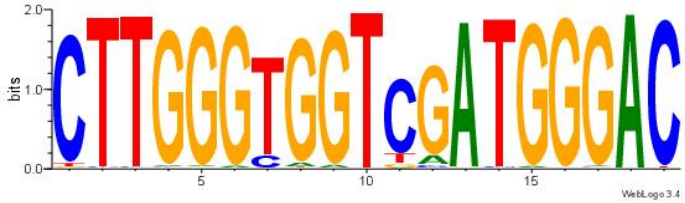

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.100896

Alignment:
AGGAGCGCCTCTKCCCGGC
--RRCCGCTCCATG-----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

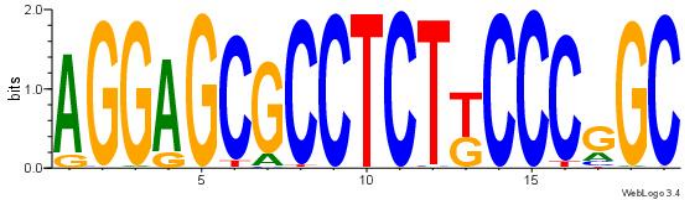

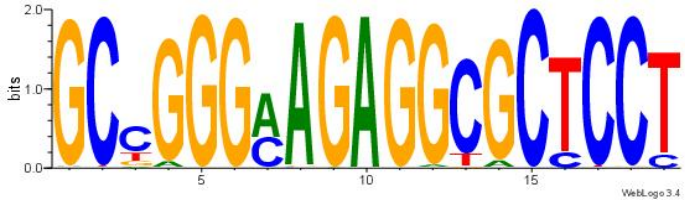

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.10114

Alignment:

```
CAAGCGCCAGCTCATGTC
----RRCCGCTCCATG--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

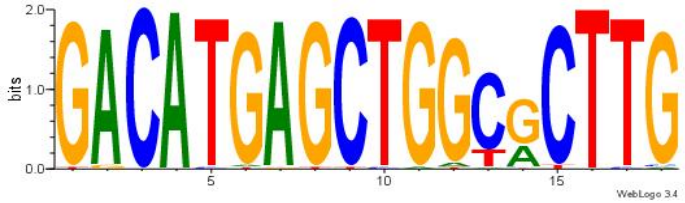

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

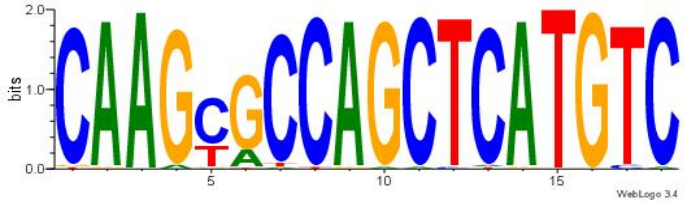

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.101292

Alignment:

```
GTGTCCCCTTCCTCCC
--RRCCGCTCCATG--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

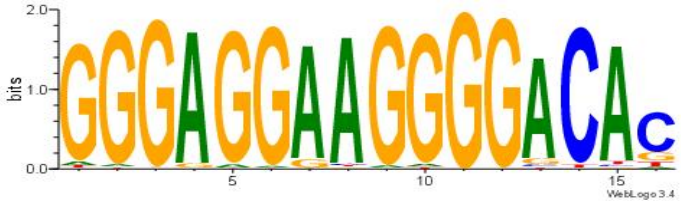

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

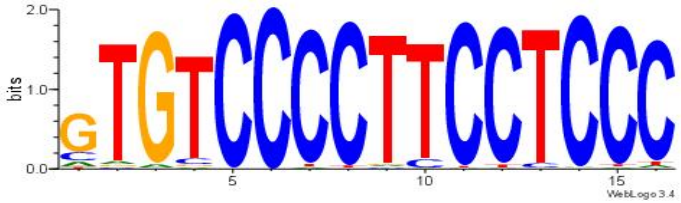

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.101325

Alignment:
GAGGAGGRGGAGGDGGV
---CATGGAGCGGKK--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

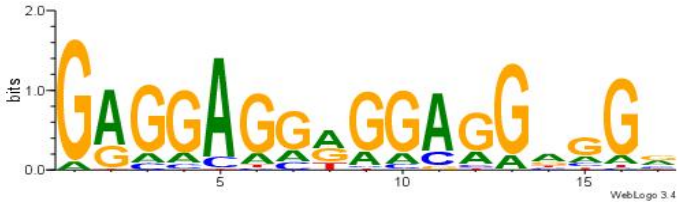

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

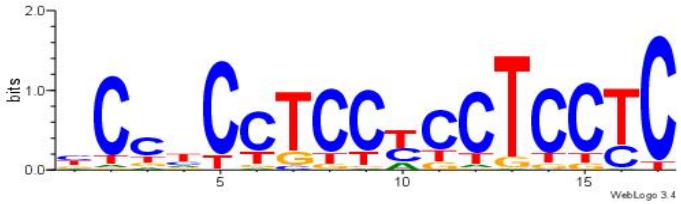

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.102171

Alignment:
GGGCTCCCACAGTGCAGCGG
-------CATGGAGCGGKK-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

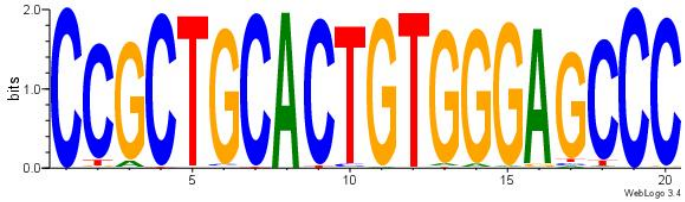

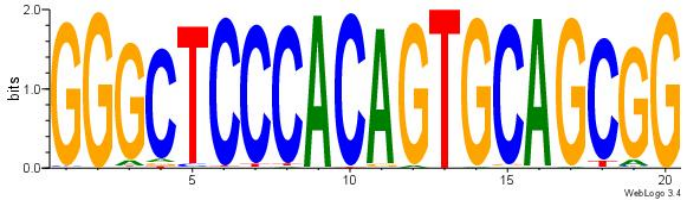

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.102698

Alignment:

```
CCCTCACTGCCCGGGG
----CATGGAGCGGKK
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

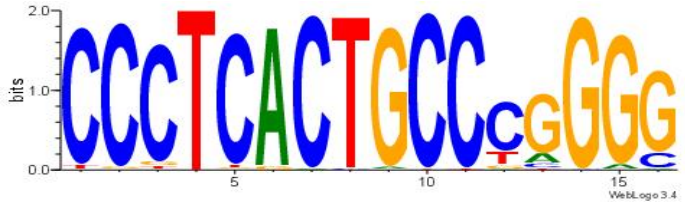

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

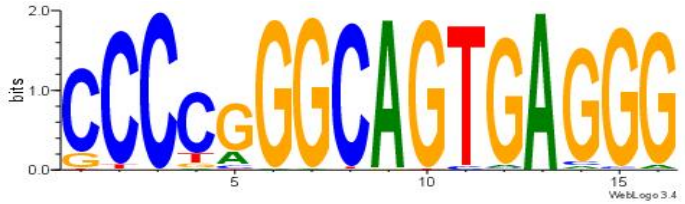

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102956

Alignment:

```
AGTGAGAACATRYRRTRTTT
--------CATGGAGCGGKK
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

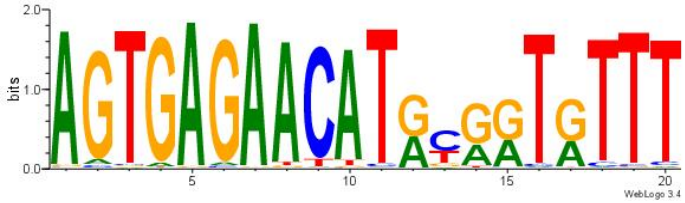

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

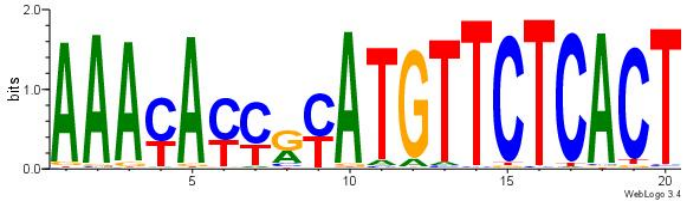

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.103206

Alignment:
GGGTCAGGGAGTTCCCTTTC
----CATGGAGCGGKK----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

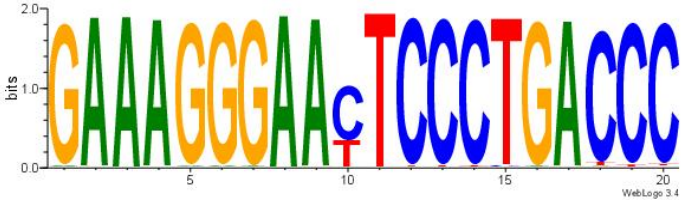

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

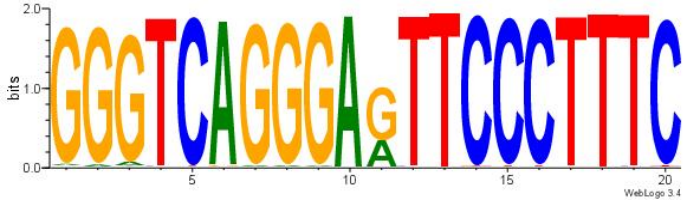

Dataset #: 1
Motif ID: 286
Motif name: Motif 286
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.103294

Alignment:
CAGGCGGCTGGGAG
CATGGAGCGGKK--

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

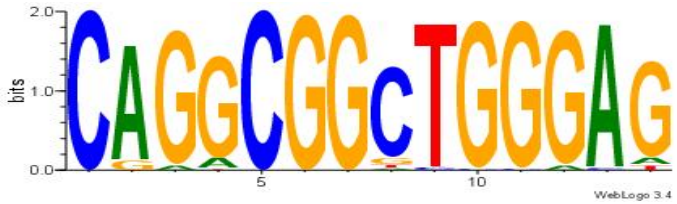

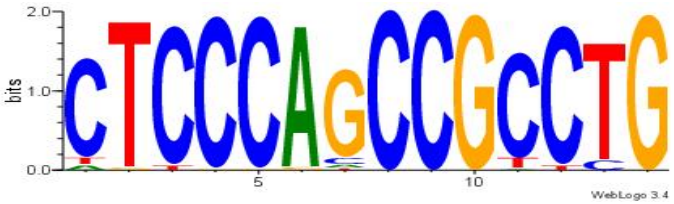

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.103424

Alignment:

```
TGGGGCTCCAGATG
RRCCGCTCCATG--
```

Original motif Consensus sequence: CATCTGGAGCCCCA

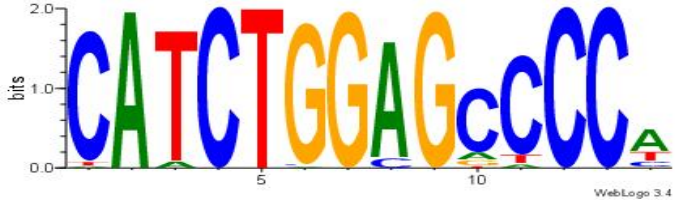

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

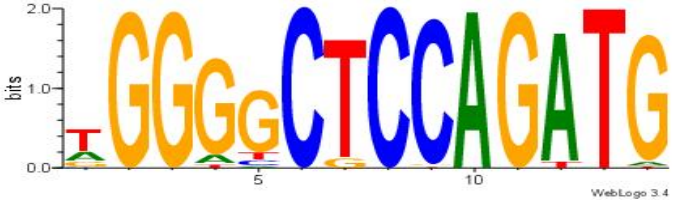

Dataset #:	1
Motif ID:	178

Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.103796

Alignment:

```
ACTGTCTTCCACCTCCACAT
-------RRCCGCTCCATG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

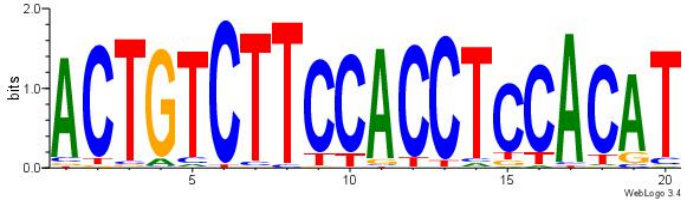

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

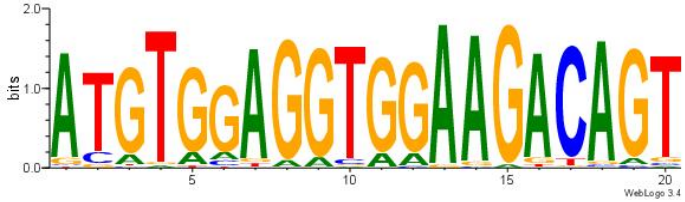

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.103845

Alignment:
AAGACCTTCCAGTGGGACAA
-----CATGGAGCGGKK---

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

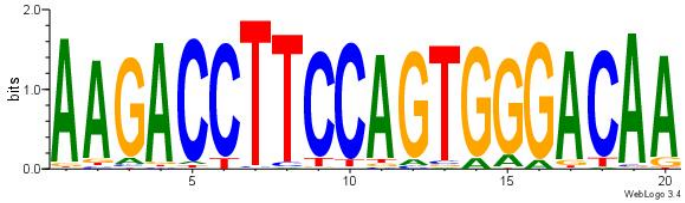

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

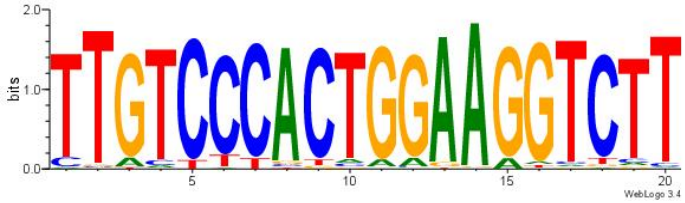

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.104263

Alignment:
TTMGTCCCAGAGGGGCACC
-----CATGGAGCGGKK--

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

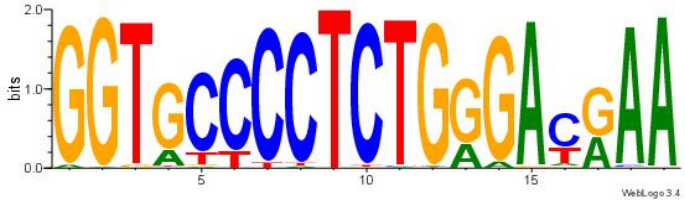

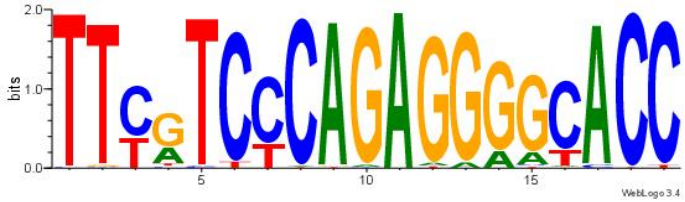

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.104266

Alignment:

```
CMTAGYACAGTGCCTGGCAC
CATGGAGCGGKK--------
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

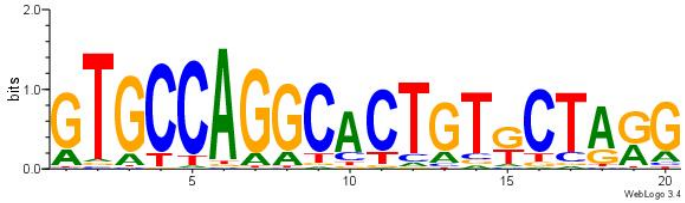

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

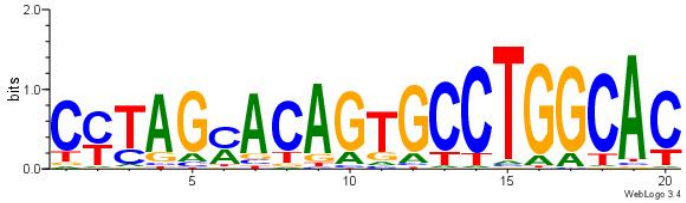

Dataset #:	1

Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.104685

Alignment:

```
GGCCMGCAGGGCKGGC
--CATGGAGCGGKK--
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

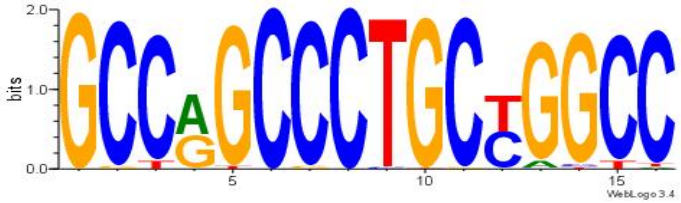

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

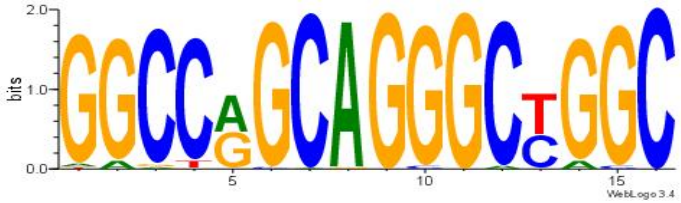

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.104931

Alignment:
CAGACTGCCTCCTCAA
--RRCCGCTCCATG--

Original motif Consensus sequence: CAGACTGCCTCCTCAA

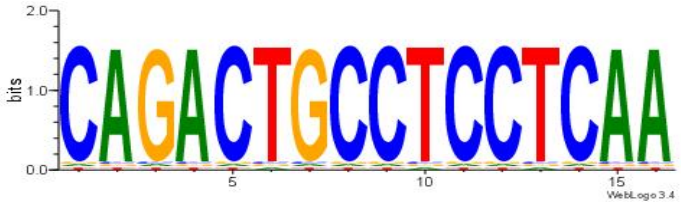

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

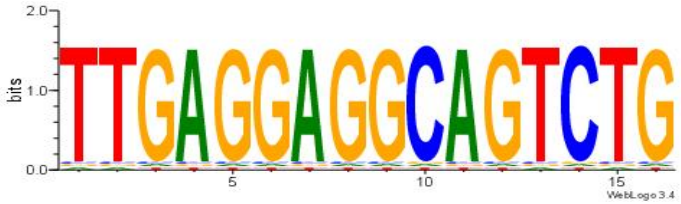

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.105194

Alignment:
GGATCCACTGGGTGAAGCCA
------RRCCGCTCCATG--

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

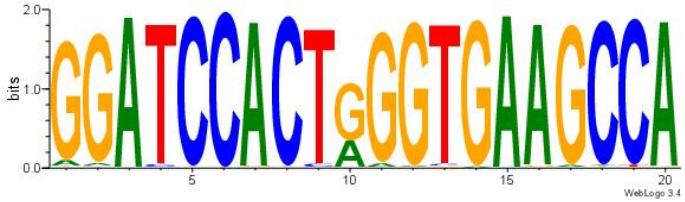

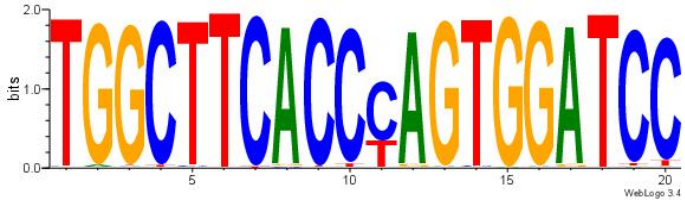

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.105279

Alignment:

```
CACCTCCCAGACMGGGT
-----CATGGAGCGGKK
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

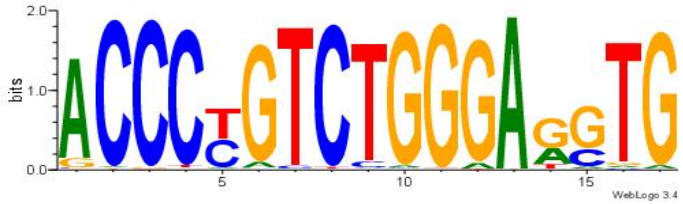

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

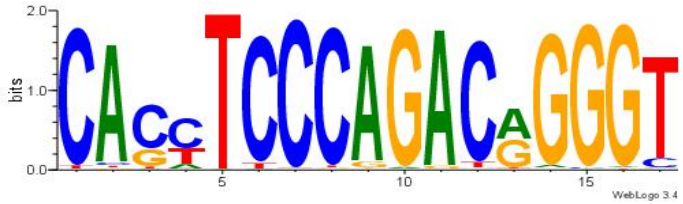

Dataset #: 1 Motif ID: 76 Motif name: Motif 76

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

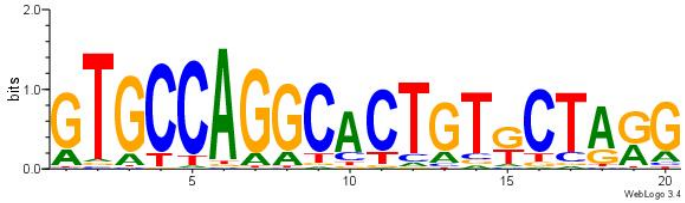

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

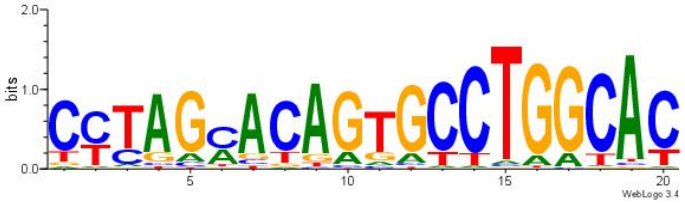

Best Matches for Motif ID 76 (Highest to Lowest)

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.101723

Alignment:

```
GTAACACTCACCGCGARGGT
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

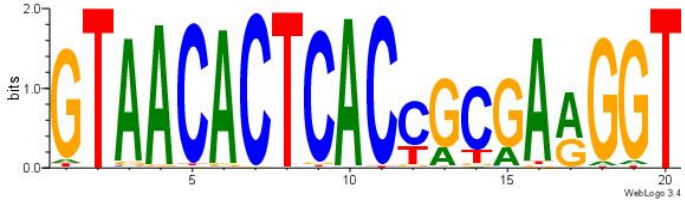

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

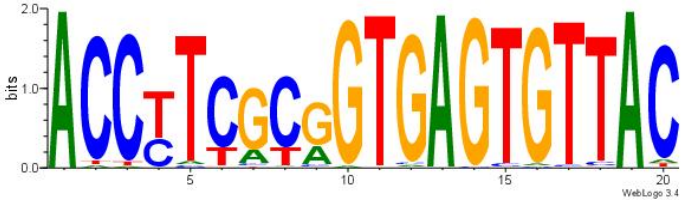

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.102379

Alignment:
TCTCTCTCTCTCTCTCTCTC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

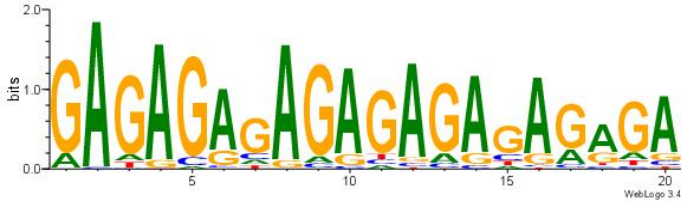

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

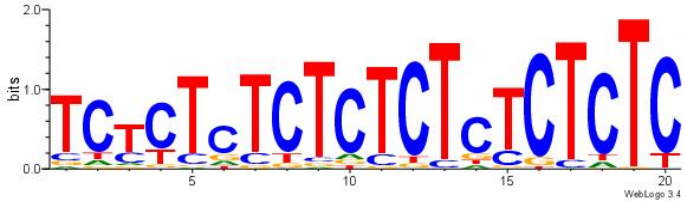

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number:	1
Number of overlap:	20
Similarity score:	0.103246

Alignment:
GGGTCAGGGAGTTCCCTTTC
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

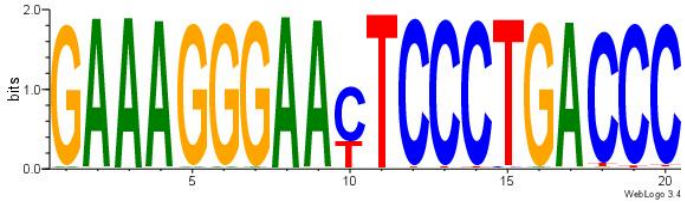

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

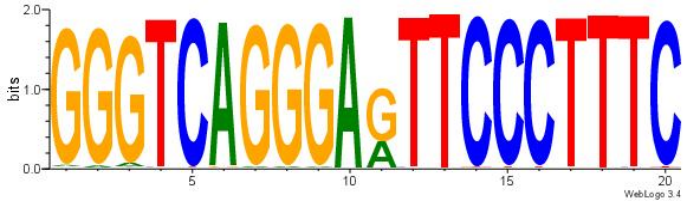

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110477

Alignment:
AAGCTCGAACTGGGTGGAGC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

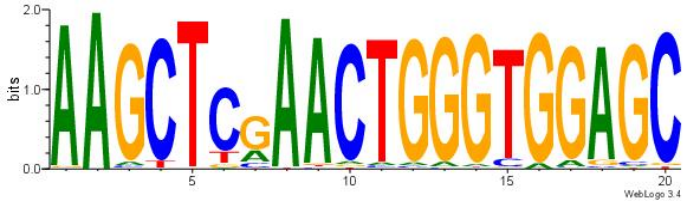

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

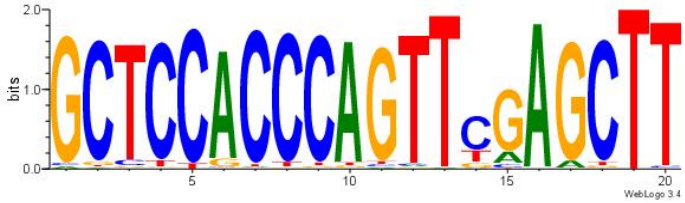

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110507

Alignment:

```
GGCATCACGGATCCTACCAA
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

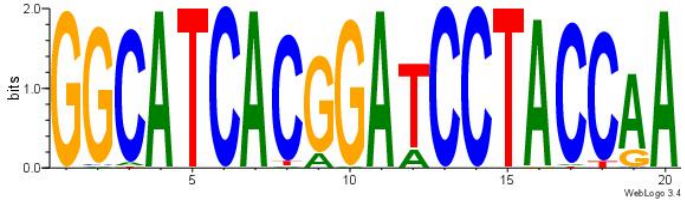

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

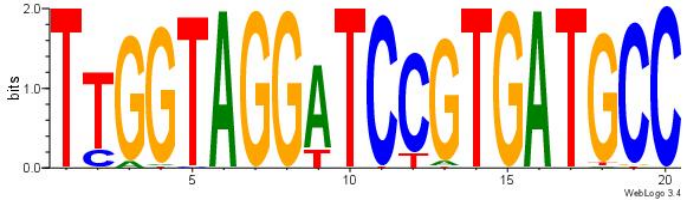

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113389

Alignment:
CTTGCCCAAGGTCACACAGC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

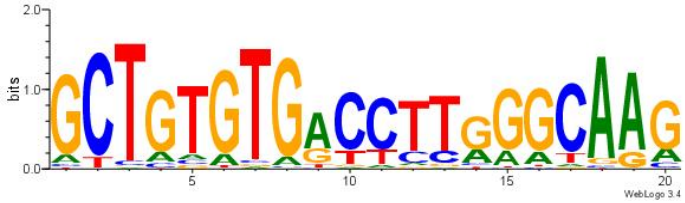

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

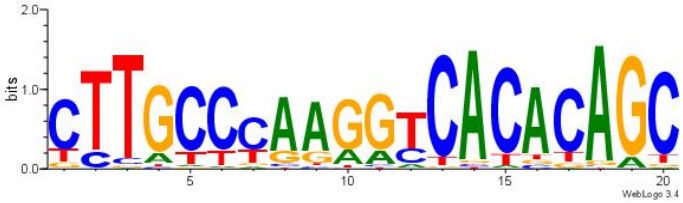

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.115632

Alignment:
AATGAKATCATGTCYTTTGC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

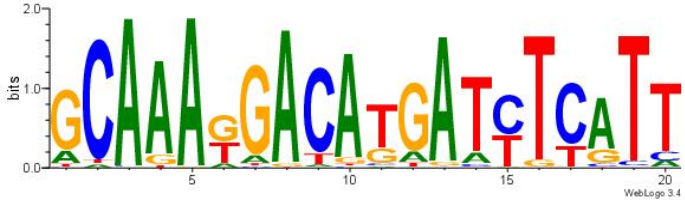

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

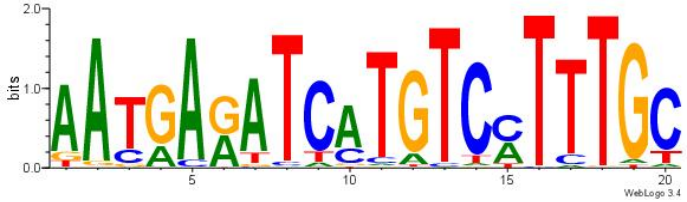

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.116373

Alignment:
CTCCTGCCTCAGCCTCCCRA
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

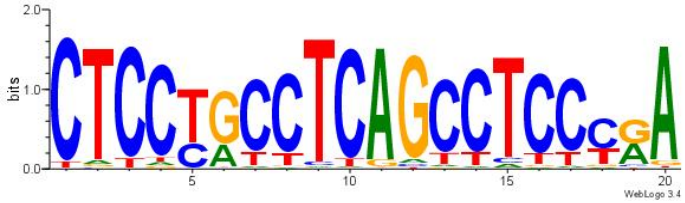

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

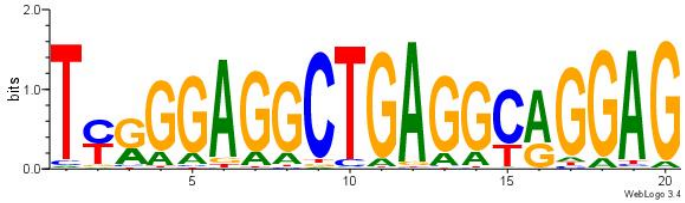

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117019

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

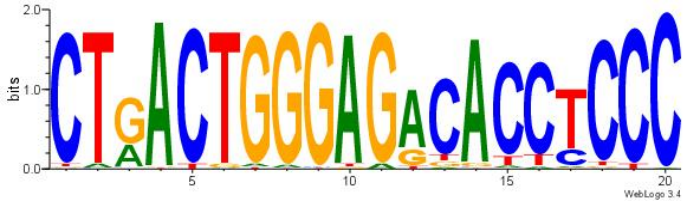

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

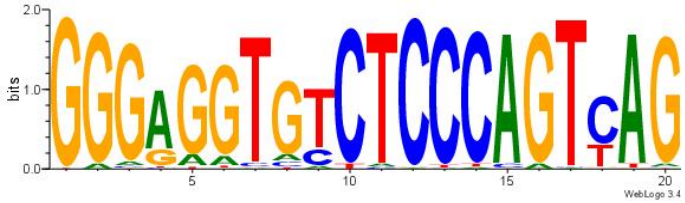

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117113

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

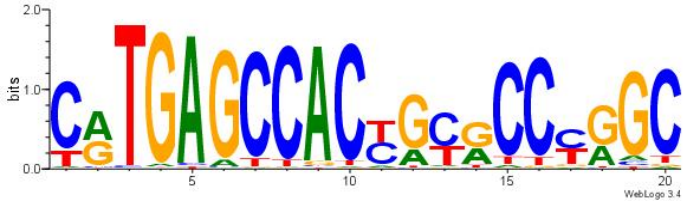

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

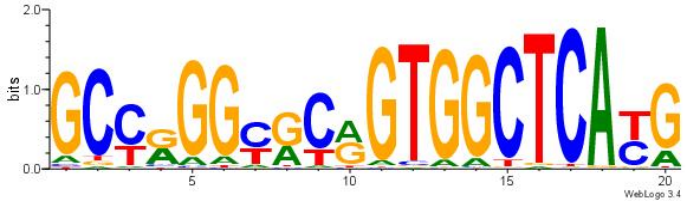

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.117391

Alignment:
AAATTAGGCCAATTAATAAC
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

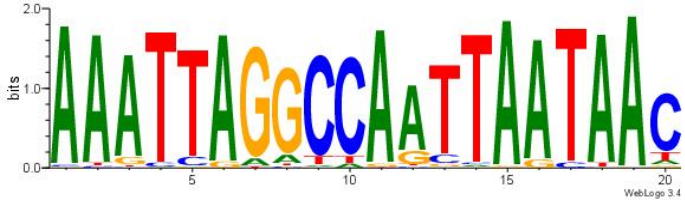

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.117458

Alignment:
AGGCCCCAGTGTSTGTTGTT
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

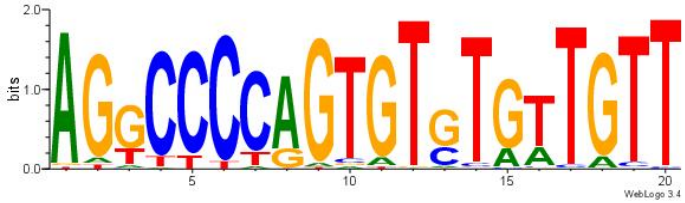

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

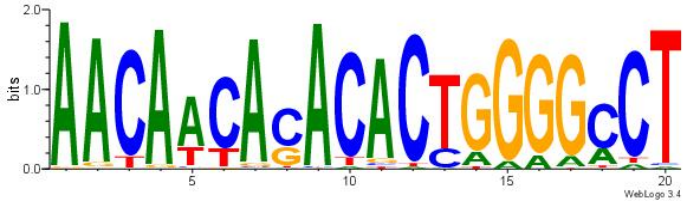

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118627

Alignment:

```
ATGGACAYTTRGGTTGHTTC
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

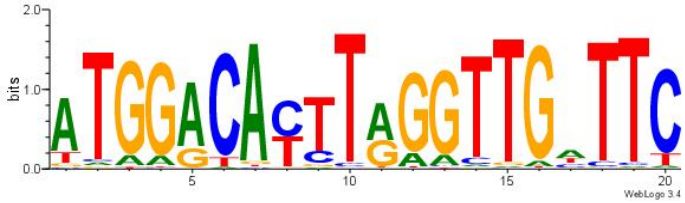

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

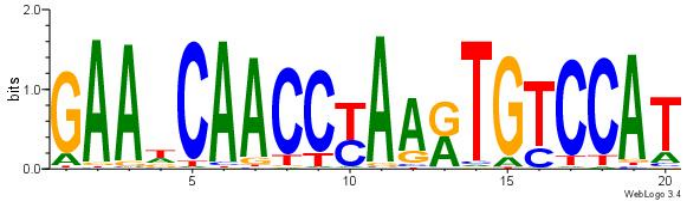

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119855

Alignment:

```
CTGGCCCTCAATGGTTAAAC
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

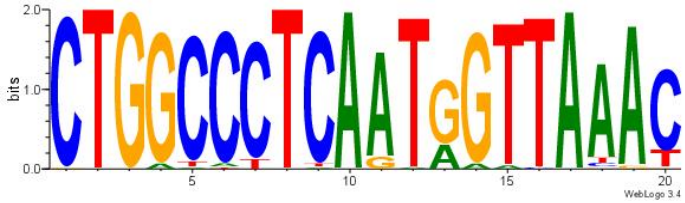

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

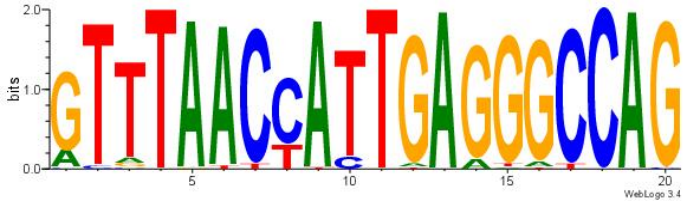

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.12027

Alignment:
AAGGAACAAACTCCRGACAC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

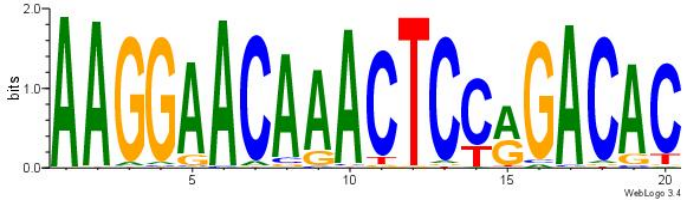

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

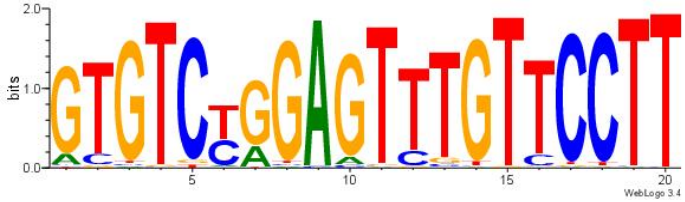

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.120367

Alignment:
CCCMKGGCACCCTCAGTCCT
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

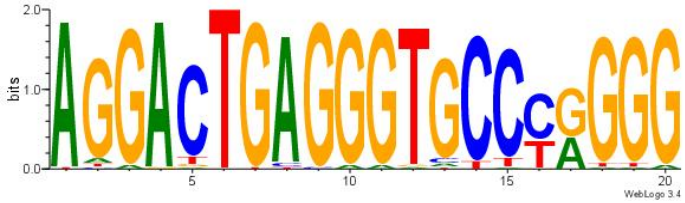

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

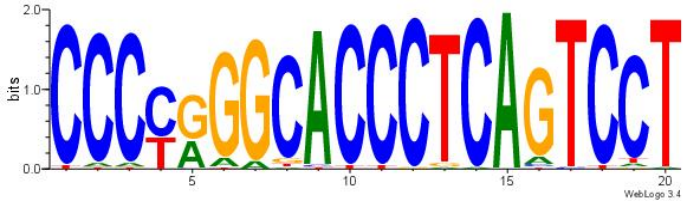

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120703

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

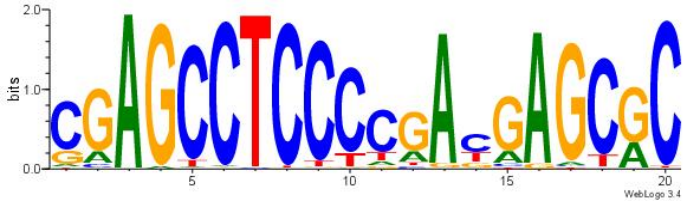

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

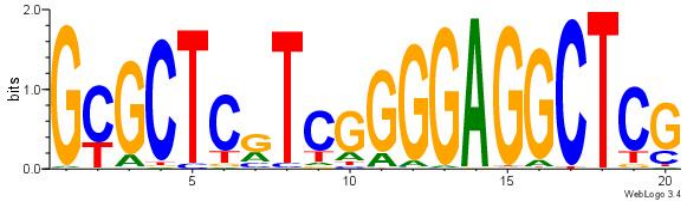

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121051

Alignment:
CTGGGCRACAGAGYRAGACY
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

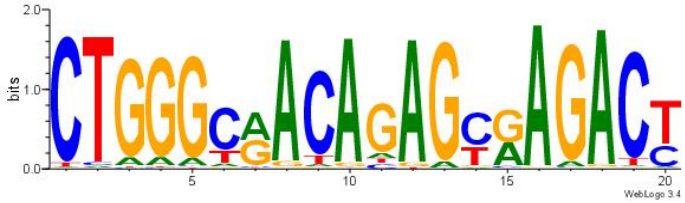

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

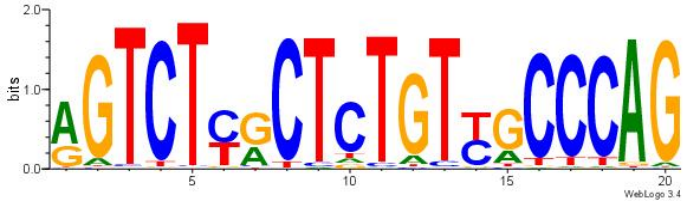

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.121376

Alignment:
GTCTCWAMAAAAAAWAMAAA
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

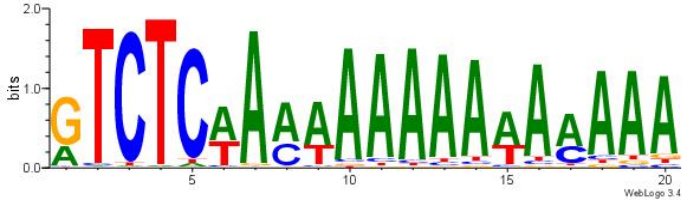

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

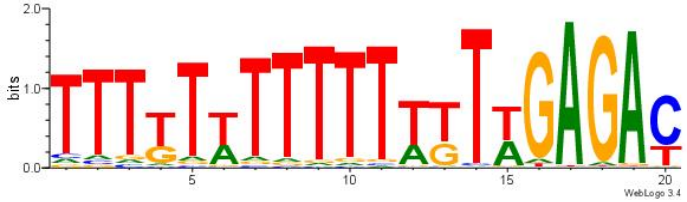

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.122371

Alignment:
AGGTTTGTTACATAGGTAWA
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

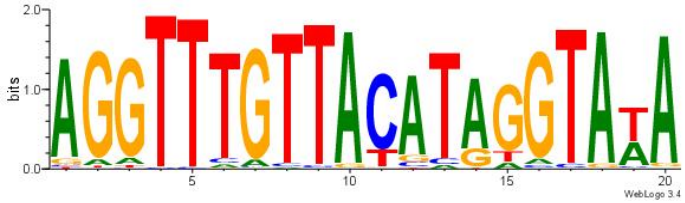

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

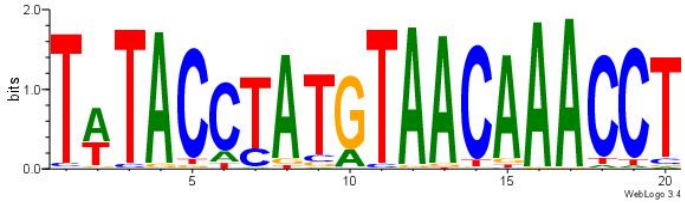

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122997

Alignment:

```
VMATTTAKTGAGCACCTACT
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

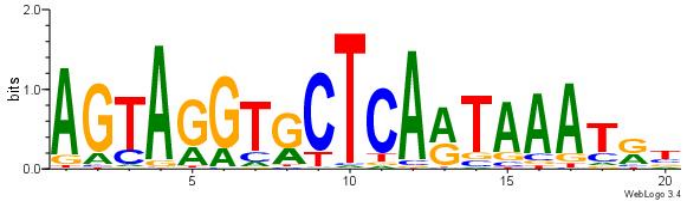

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

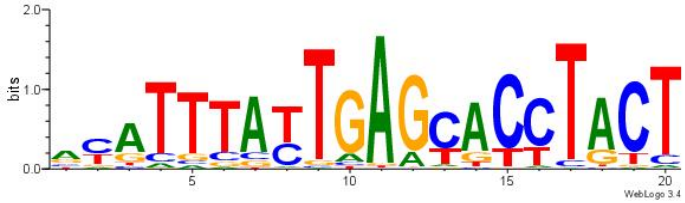

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.123533

Alignment:

```
TAGATAATAGCTCCAGCTTT
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

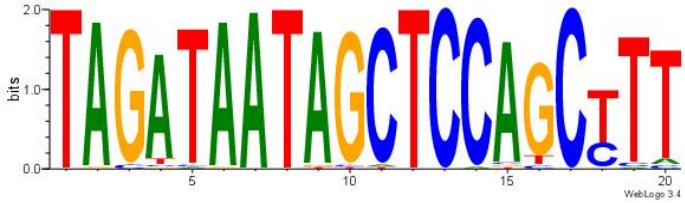

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

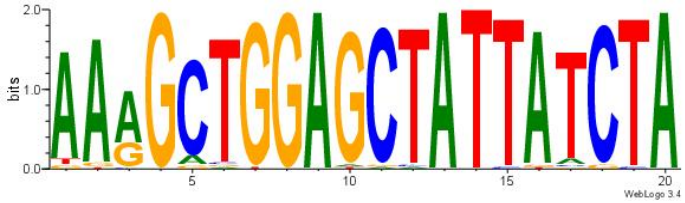

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.123914

Alignment:
TCKMGCCACTGCACTCCAGC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

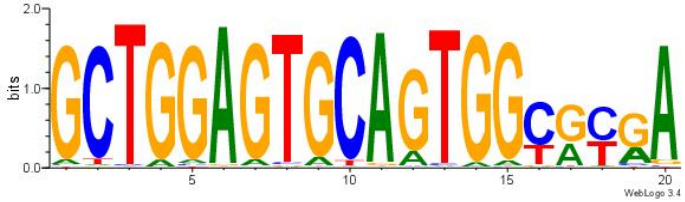

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

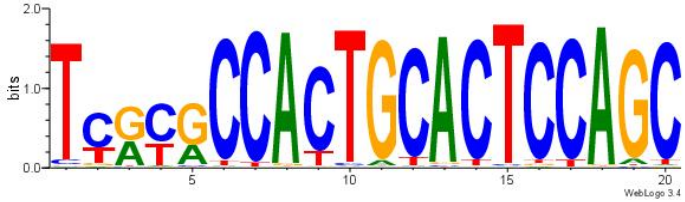

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.125769

Alignment:
GACAGGAGATTAACACTGAG
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

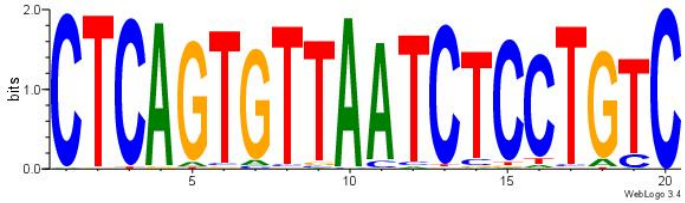

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

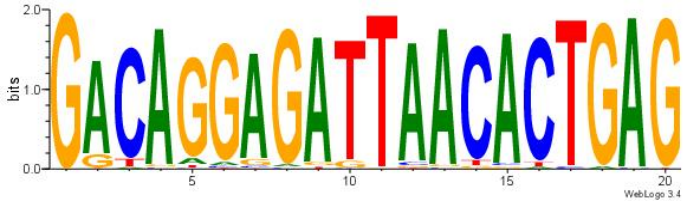

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126327

Alignment:

```
ATAGGAATGCTTGTGATTTT
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

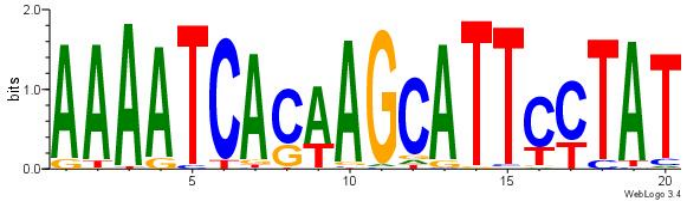

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

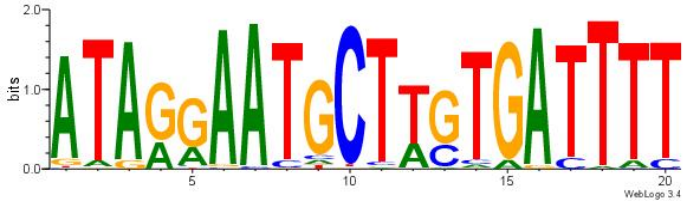

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127124

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

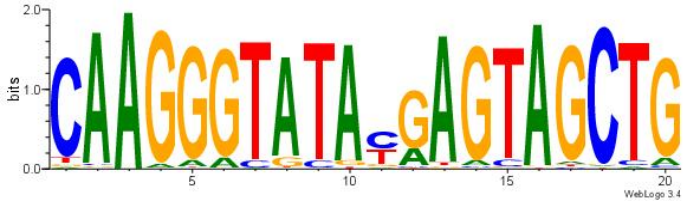

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

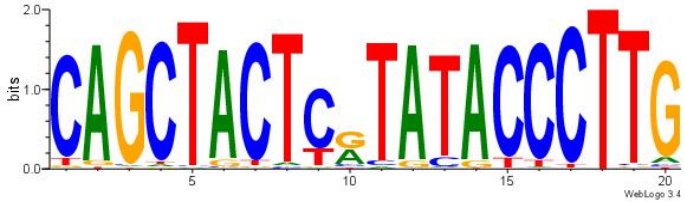

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.127219

Alignment:
ATTGGTGTATTTACAATCCC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

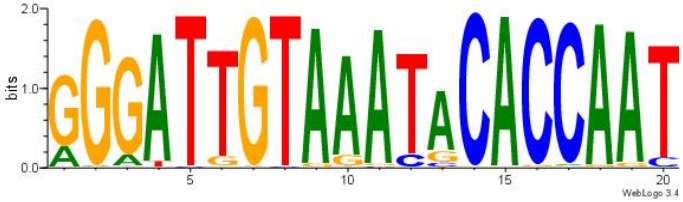

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128561

Alignment:
TGGAGAACCTTTATGTCTAG
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

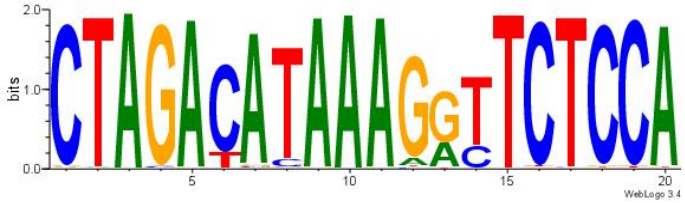

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

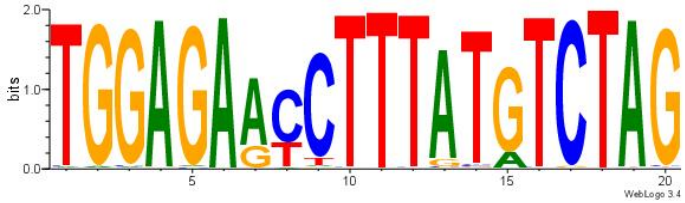

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128692

Alignment:

```
CGGCGCTGMGCTCGATTTCT
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

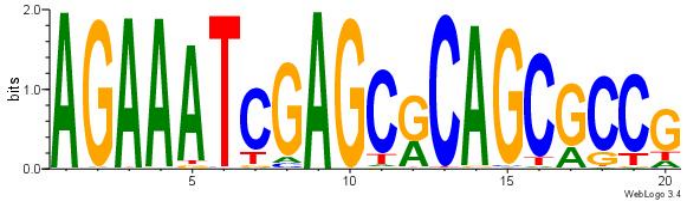

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

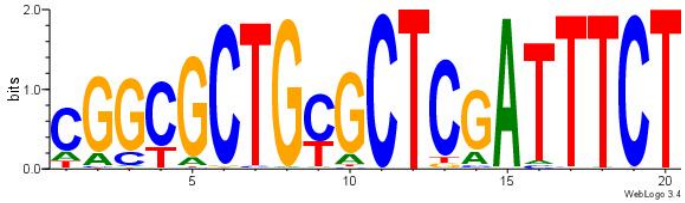

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129037

Alignment:
GGATTTMKGACTTGCATGGG
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

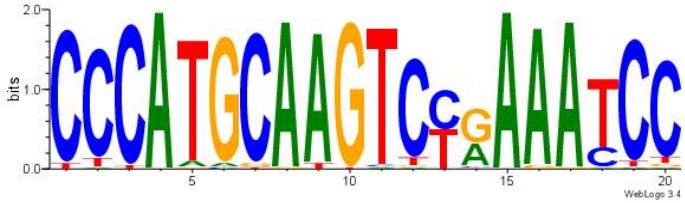

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

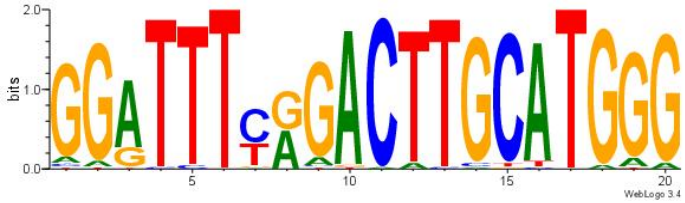

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.129094

Alignment:
GGCAATGCCTCGCCCTGCTT
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

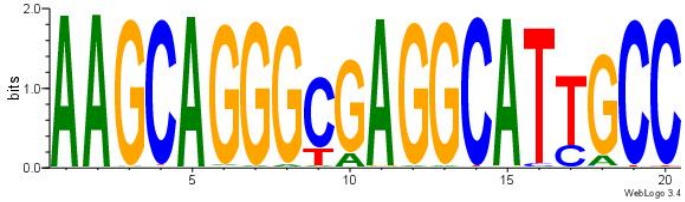

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

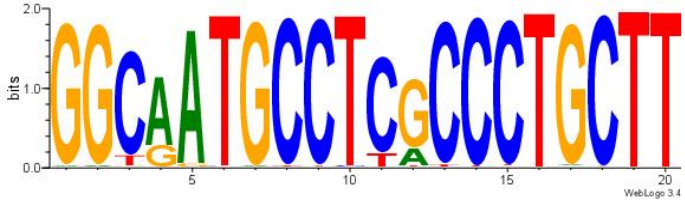

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.129275

Alignment:
AAGCTGAGGGAGCCGGCTCC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

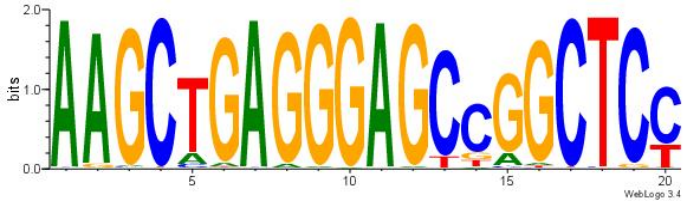

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

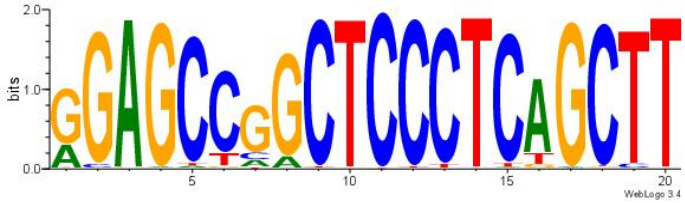

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129646

Alignment:

```
AAGTCCAAGATCAAGGTGYY
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

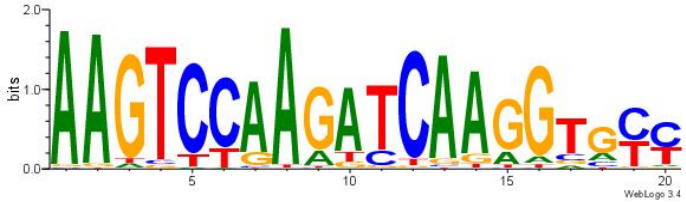

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

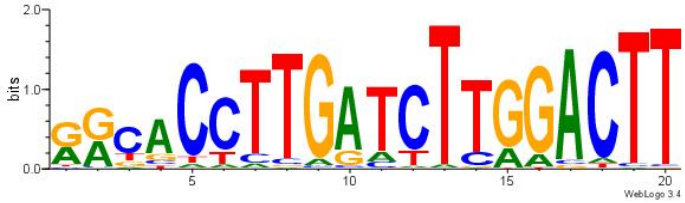

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130122

Alignment:
ATGGCTGAATAKTATTCCAT
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

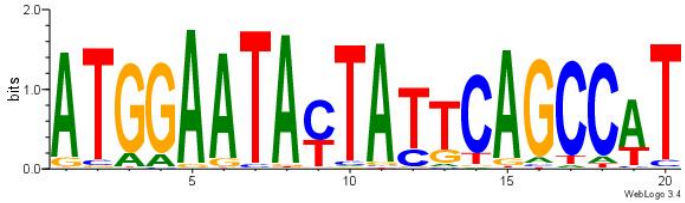

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

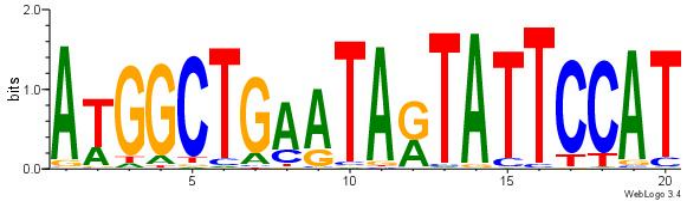

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.130363

Alignment:
AAGACCTTCCAGTGGGACAA
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

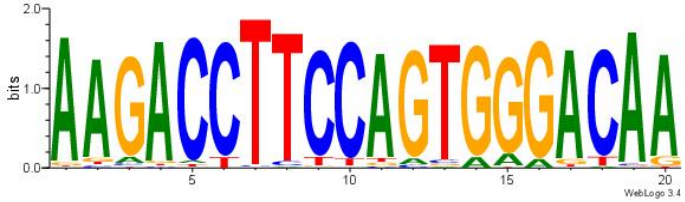

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

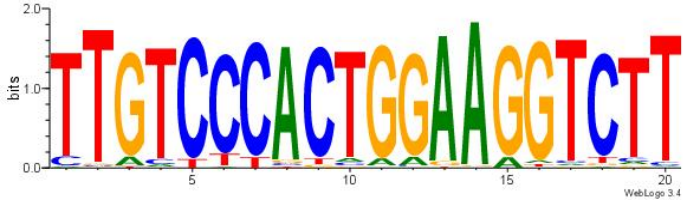

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.130609

Alignment:
CCCGAAGCTGCRYRCTCGGT
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

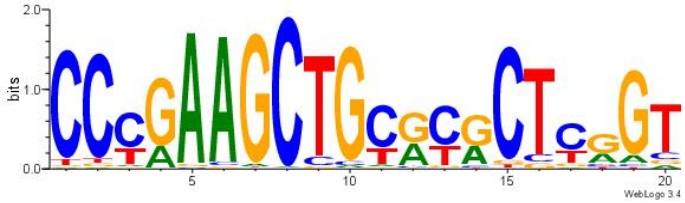

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

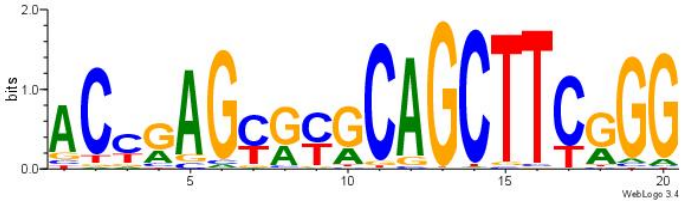

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131183

Alignment:

```
CAACATGGATGRARCTGGAG
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

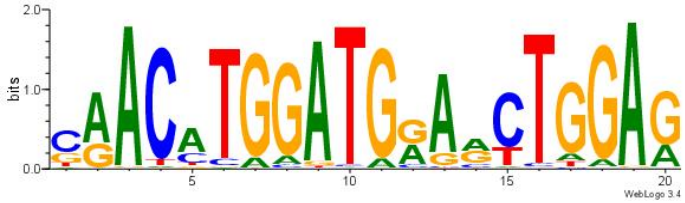

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

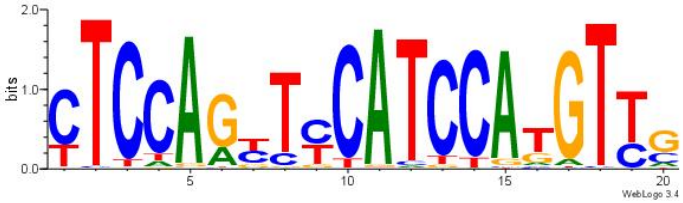

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132338

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
CMTAGYACAGTGCCTGGCAC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

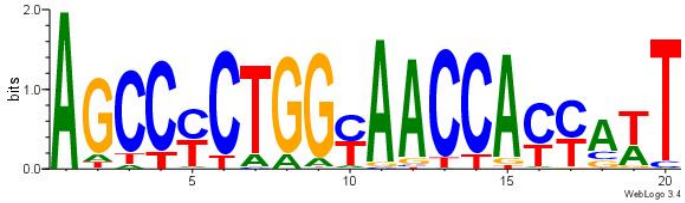

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

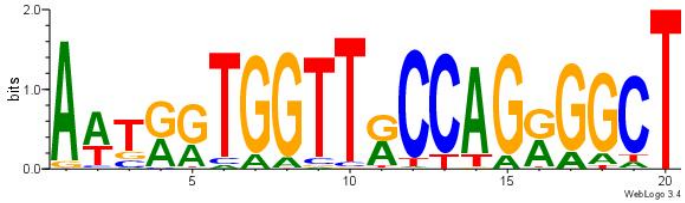

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.132441

Alignment:
CATTCTGGGGTCTGGAGGAY
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

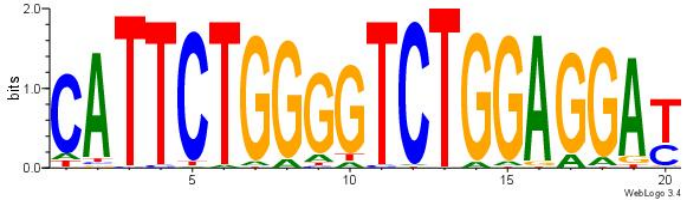

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

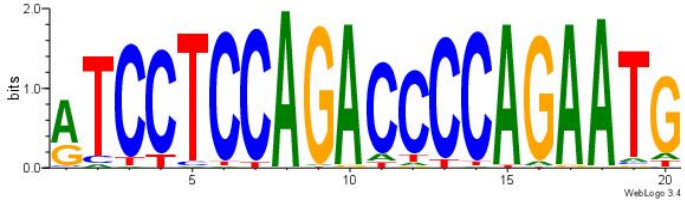

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133287

Alignment:
AAAAGTCCACAGTCCAAAGT
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

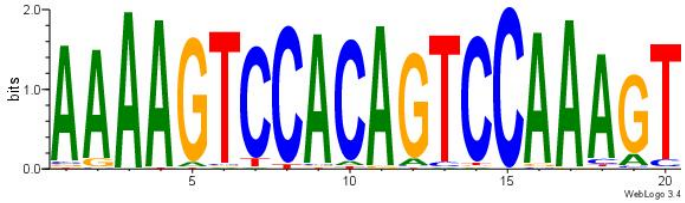

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

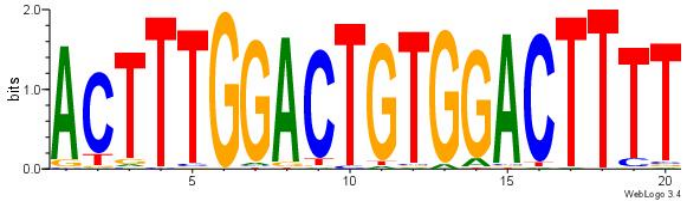

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133592

Alignment:

```
CAAGCCTSKGCAATGGCAGG
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

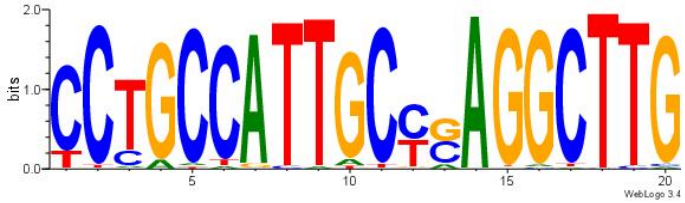

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

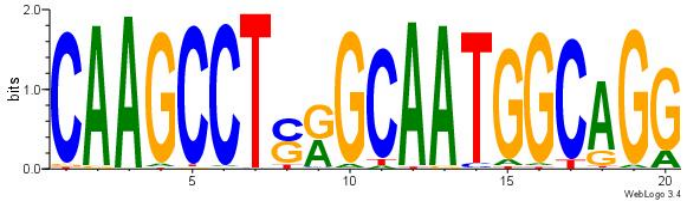

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134032

Alignment:
AGCTCMKCCTCCTGTCAGAT
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

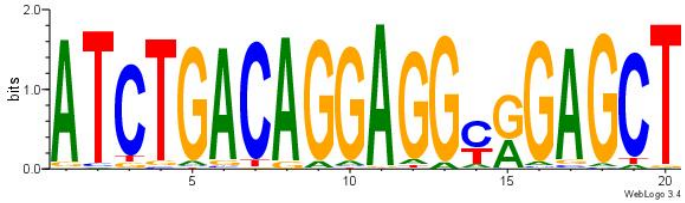

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

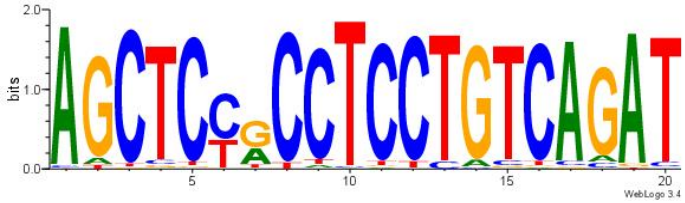

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.135007

Alignment:
AGCTCCCAGCGTGAGCGACG
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

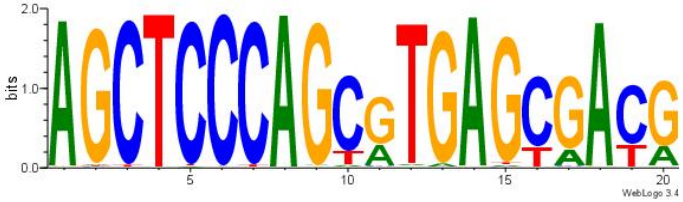

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

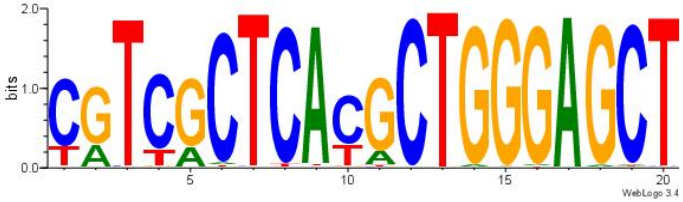

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.135133

Alignment:
AAATTACCCAGTCTCAGGTA
GTGCCAGGCACTGTKCTARG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

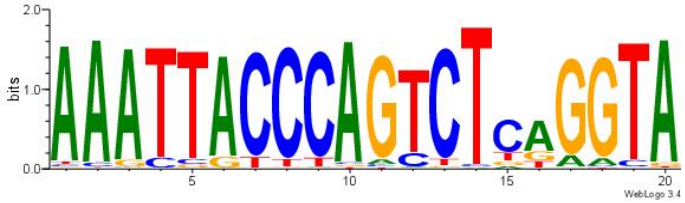

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

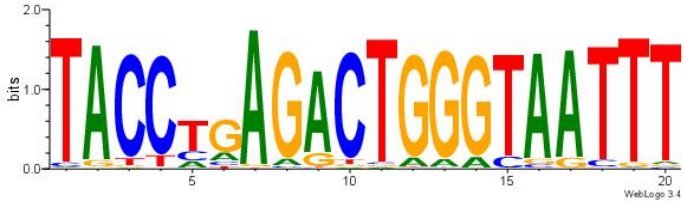

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135369

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

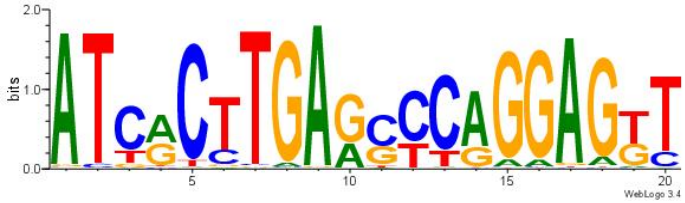

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

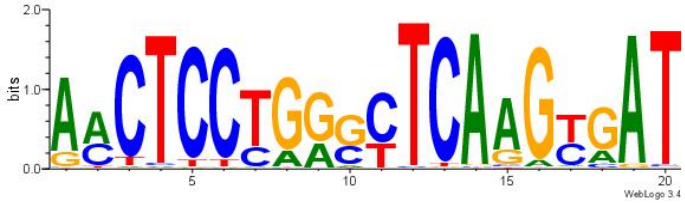

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135632

Alignment:
TYTGTCMTTTTGTGACTGGC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

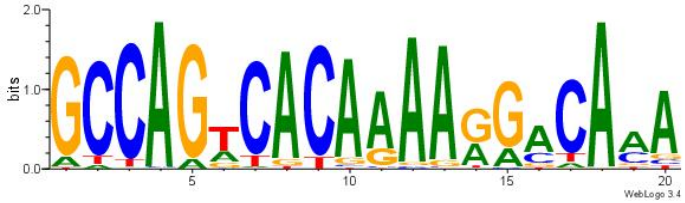

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

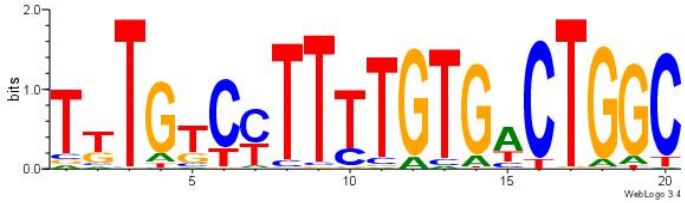

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.135709

Alignment:
AGCTGTGAGAAGAGGGCCAC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

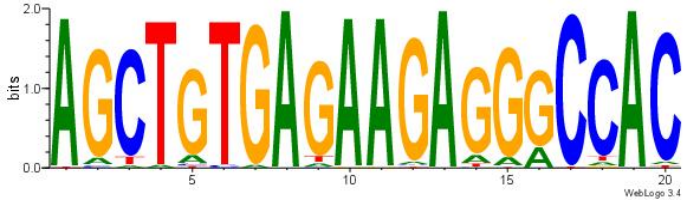

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

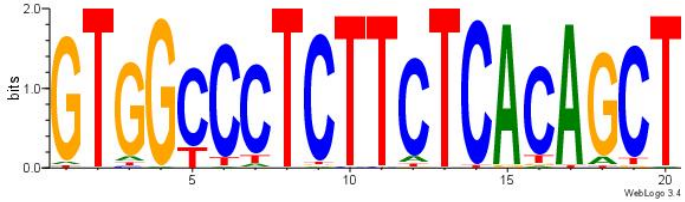

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136104

Alignment:
AAGTTCTKGGKTACATGTGC
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

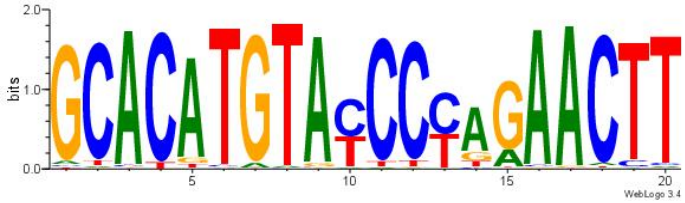

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

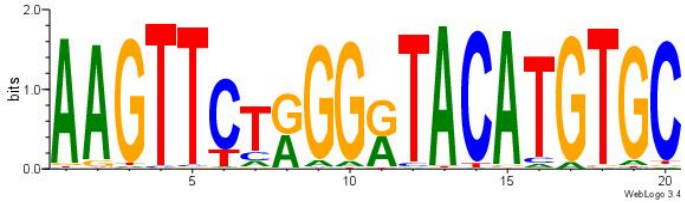

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138073

Alignment:

```
ACCCAATWTGTAGTCTTTTA
GTGCCAGGCACTGTKCTARG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

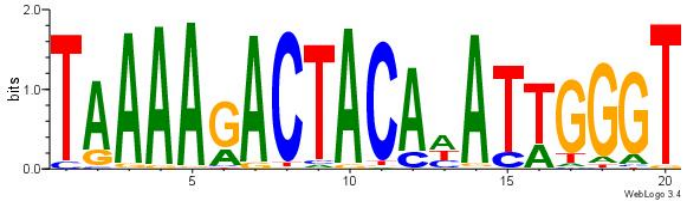

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

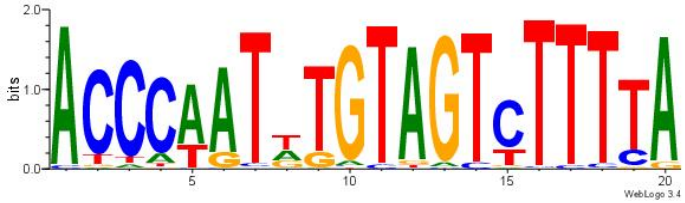

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138221

Alignment:
GAAACTGCTTTGTGATGTGT
CMTAGYACAGTGCCTGGCAC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

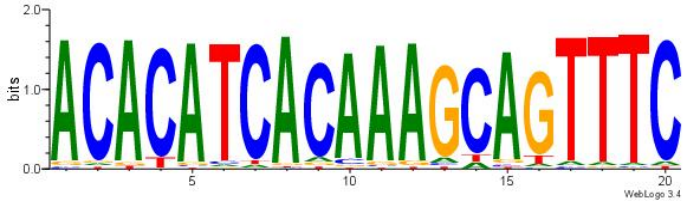

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

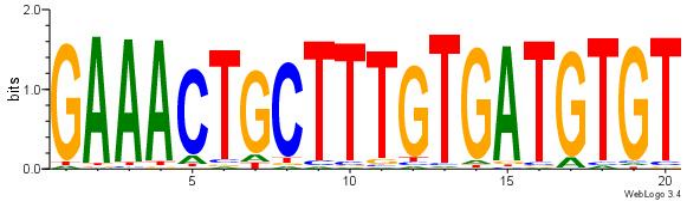

Dataset #: 1 Motif ID: 77 Motif name: Motif 77

Original motif Consensus sequence: AGGAAGAAA

Reverse complement motif Consensus sequence: TTTCTTCCT

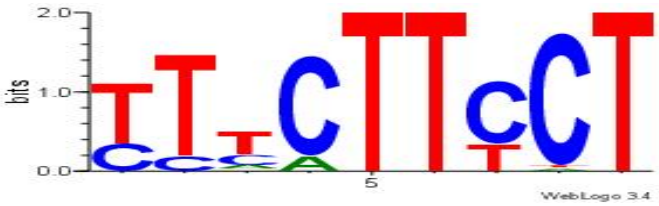

Best Matches for Motif ID 77 (Highest to Lowest)

Dataset #:	1
Motif ID:	173
Motif name:	Motif 173
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0441796

Alignment:

```
TTGTTTCCTT
TTTCTTCCT-
```

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

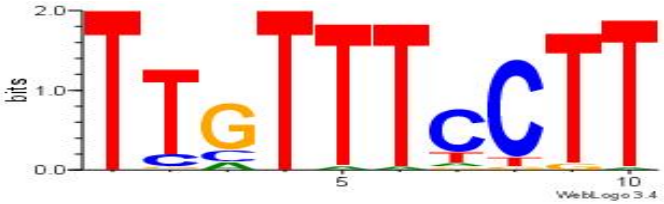

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0447051

Alignment:

```
AAGGAACAAACTCCRGACAC
-AGGAAGAAA----------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

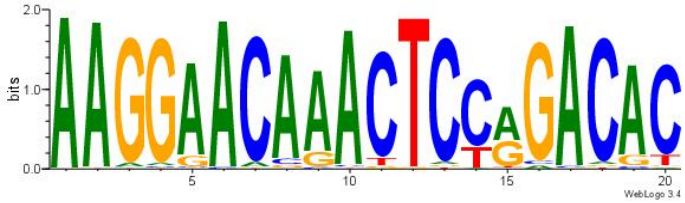

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

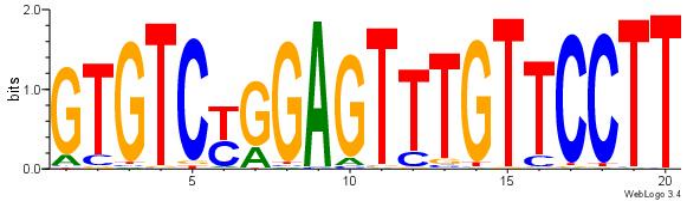

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9

Similarity score: 0.0555228

Alignment:
GAAATTGACTTCCTCCT
-----TTTCTTCCT---

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

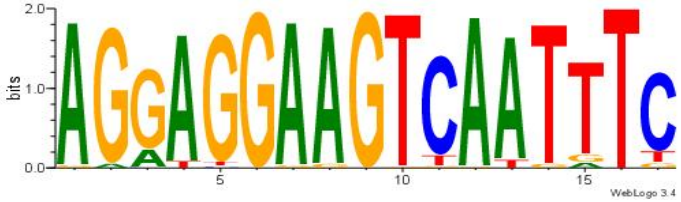

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

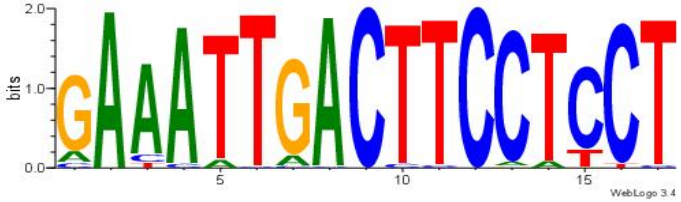

Dataset #: 1
Motif ID: 54
Motif name: Motif 54
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0606671

Alignment:
TTTCTTTTCCTT
--TTTCTTCCT-

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

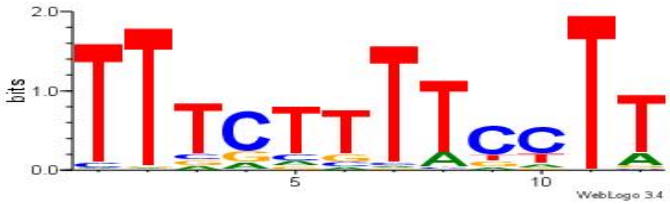

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0607922

Alignment:

```
AGAAAGGCATGTGAAAA
AGGAAGAAA--------
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

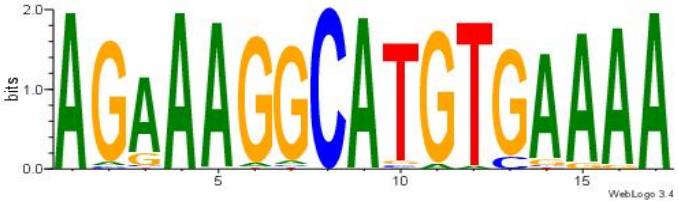

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

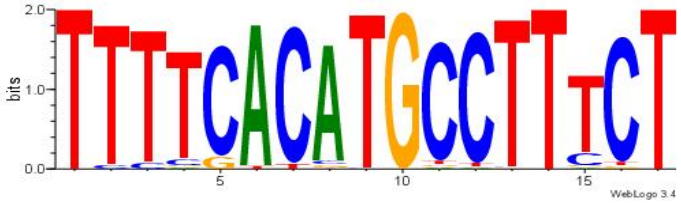

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0646774

Alignment:

```
GGGAGGAAGGGGACAC
---AGGAAGAAA----
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

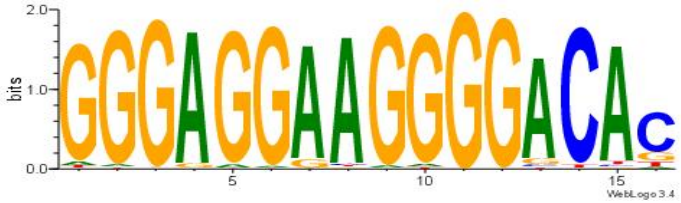

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

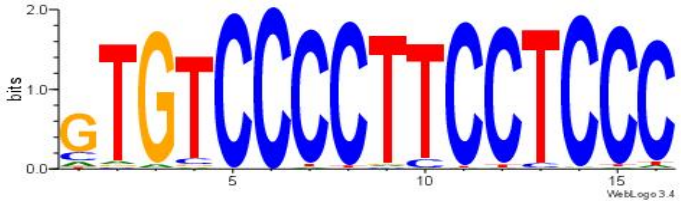

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9

Similarity score: 0.0684354

Alignment:
TCCAAATGGGAGAAATTGGC
------AGGAAGAAA-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

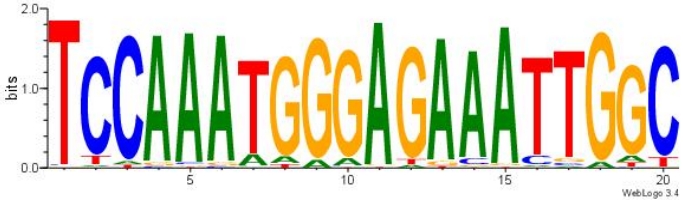

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

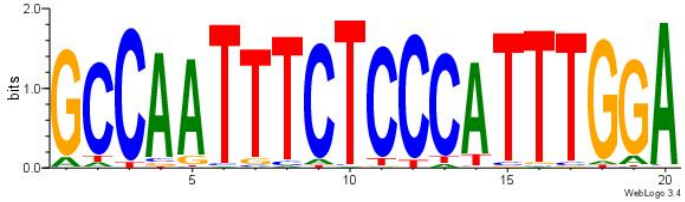

Dataset #: 1
Motif ID: 214
Motif name: Motif 214
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0690253

Alignment:
CTCAGGAATGGAAAACC
---AGGAAGAAA-----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

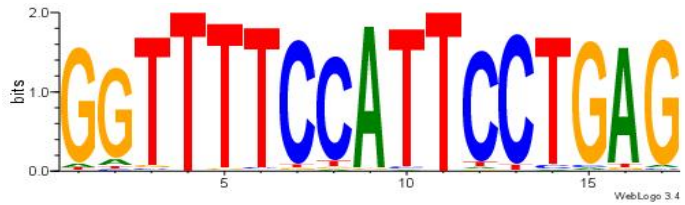

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0692476

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-----------TTTCTTCCT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

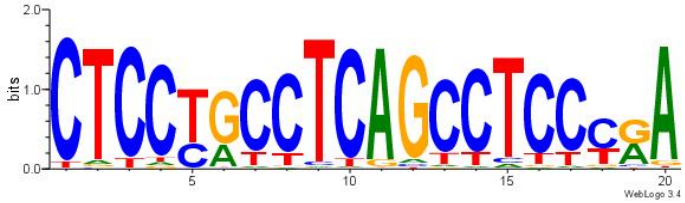

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

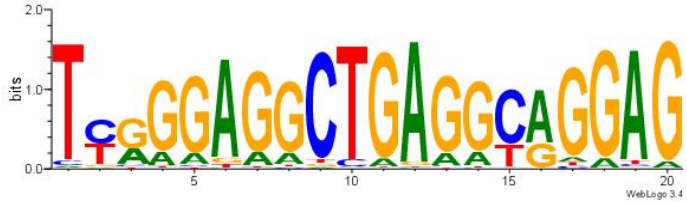

Dataset #:	1

Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0693526

Alignment:

```
MGCTGAGGCAGGAG
-----AGGAAGAAA
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

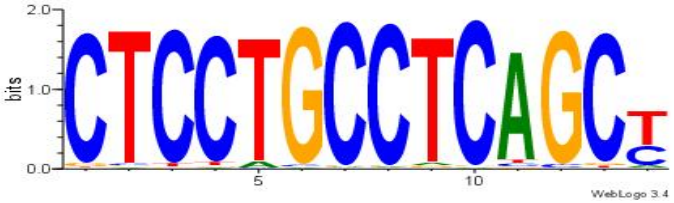

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

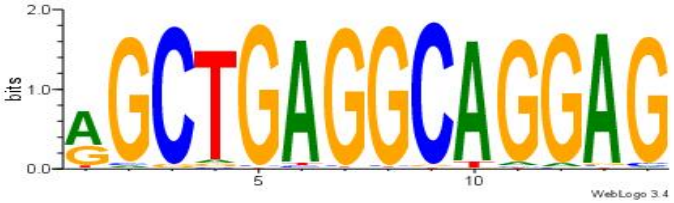

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0695218

Alignment:
AAAMAMMKMATGTTCTCACT
----------TTTCTTCCT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

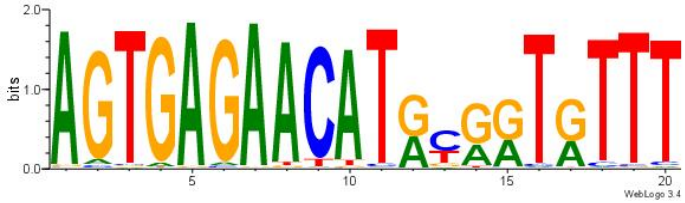

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

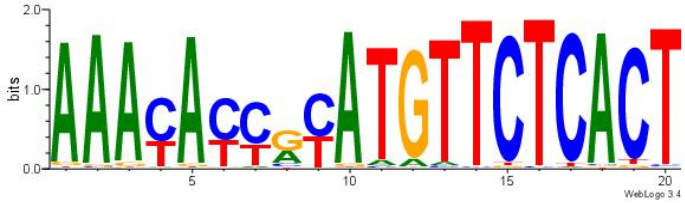

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0697081

Alignment:
CAACATGGATGRARCTGGAG
-----AGGAAGAAA------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

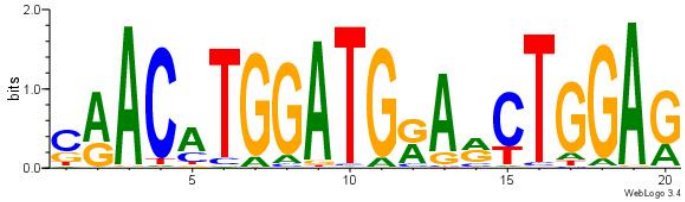

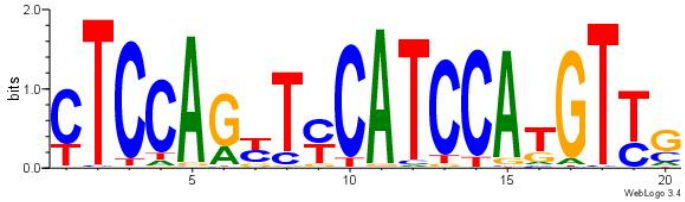

Dataset #:	1
Motif ID:	79
Motif name:	Motif 79
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.070812

Alignment:

```
AATGAATGAAT
-AGGAAGAAA-
```

Original motif Consensus sequence: AATGAATGAAT

Reverse complement motif Consensus sequence: ATTCATTCATT

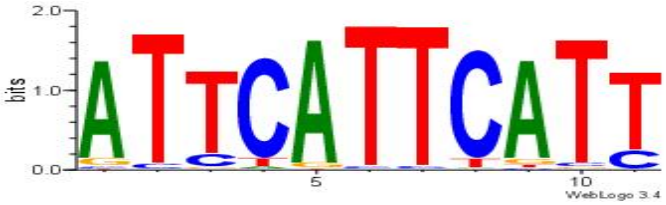

Dataset #:	1
Motif ID:	178

Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0709465

Alignment:

```
ACTGTCTTCCACCTCCACAT
--TTTCTTCCT---------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

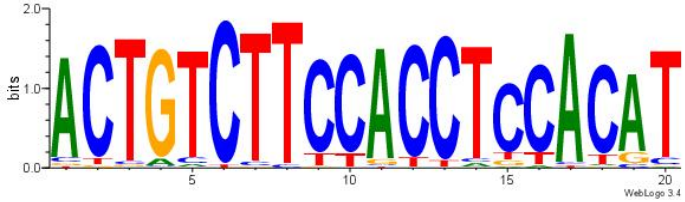

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

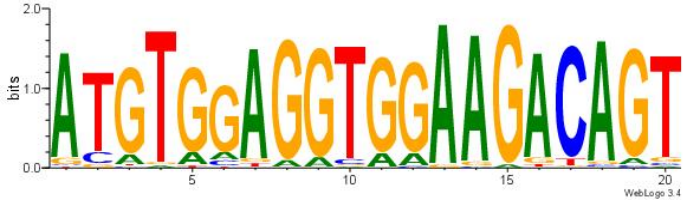

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.071964

Alignment:
TTTYTWTTTTTTYTWGAGAC
-----TTTCTTCCT------

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

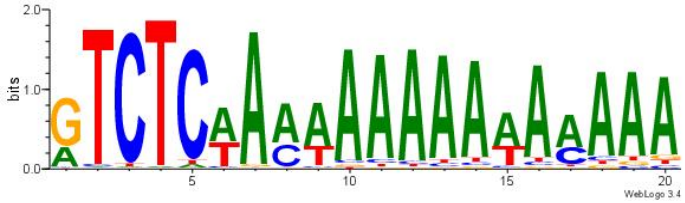

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

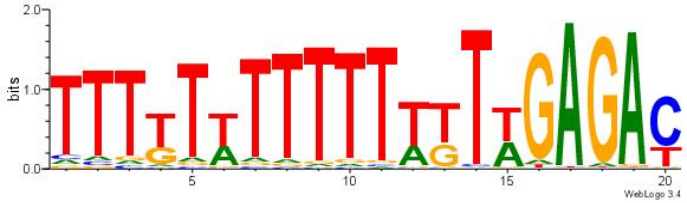

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0721728

Alignment:
TTTTTTTMTTT
-TTTCTTCCT-

Original motif Consensus sequence: AAAYAAAAAAA

Reverse complement motif Consensus sequence: TTTTTTTMTTT

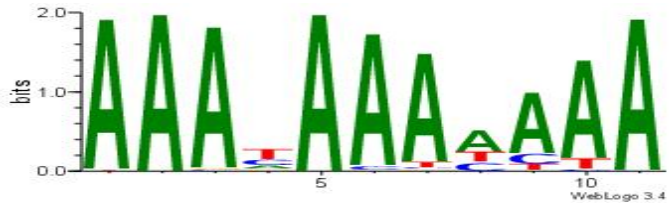

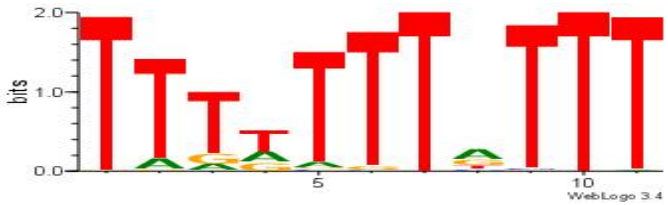

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0724426

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
---AGGAAGAAA--------
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

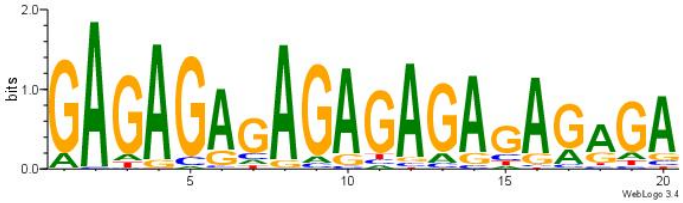

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

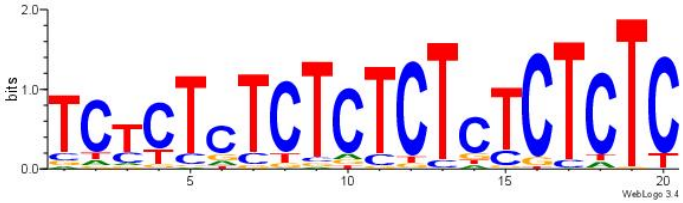

Dataset #: 1

Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0735592

Alignment:

```
GGTCCTCCTCTAT
TTTCTTCCT----
```

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

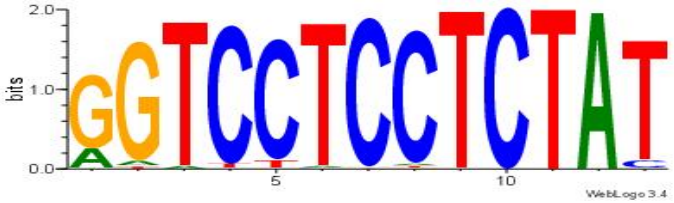

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0739544

Alignment:
GTTGTGAGGATTAAATGAG
------AGGAAGAAA----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

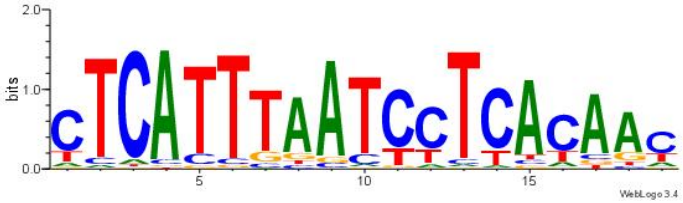

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

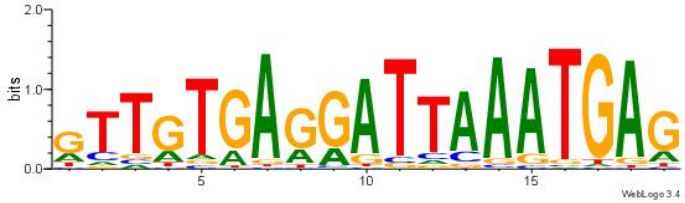

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0742504

Alignment:
TTGAGGAGGCAGTCTG
---AGGAAGAAA----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence:
TTGAGGAGGCAGTCTG

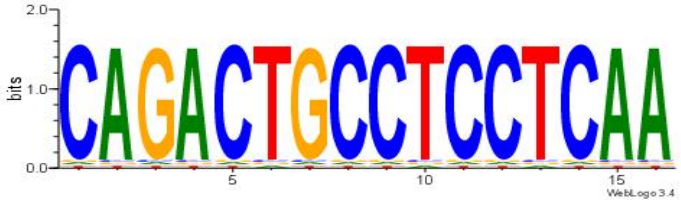

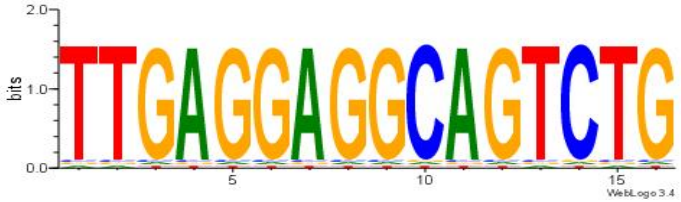

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0755845

Alignment:

```
AGGTCCTTCAGGAGGTATTC
---------AGGAAGAAA--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

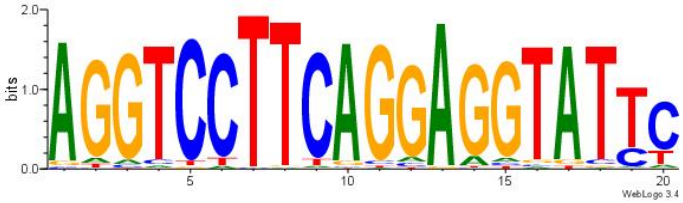

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

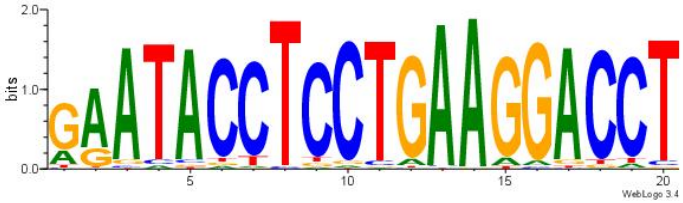

Dataset #:	1

Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0774325

Alignment:

```
AGAAACAGAA
AGGAAGAAA-
```

Original motif Consensus sequence: AGAAACAGAA

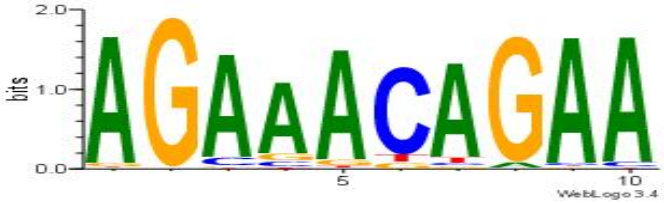

Reverse complement motif Consensus sequence: TTCTGTTTCT

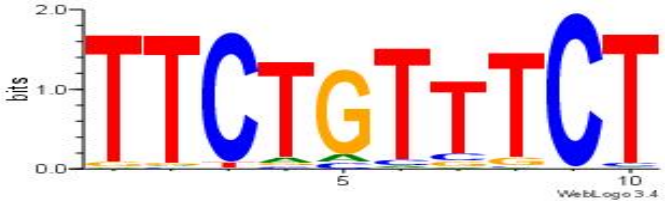

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0778483

Alignment:
TCACKMGGGAAGCGCAAG
---AGGAAGAAA------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

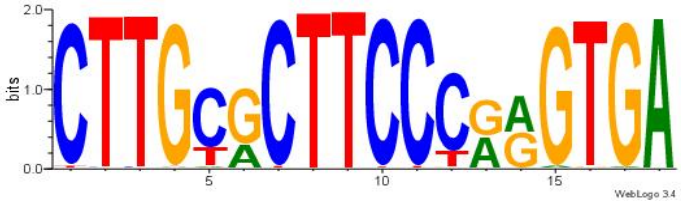

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

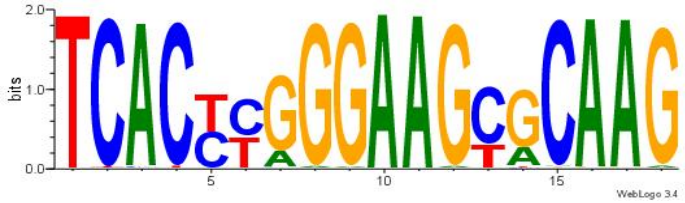

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0781158

Alignment:
CAAAGGCATAAGAATGAT
---AGGAAGAAA------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence:
ATCATTCTTATGCCTTTG

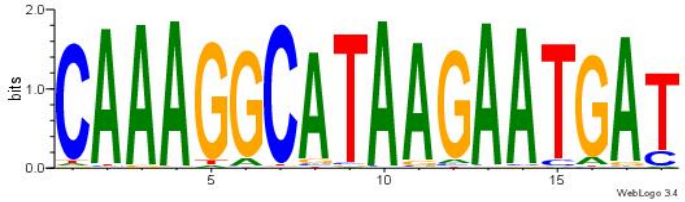

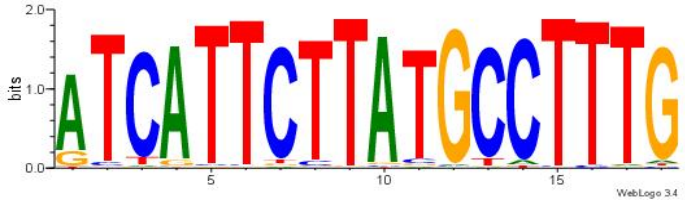

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0781464

Alignment:

```
GACTTCAAGAATGAAGCCG
------AGGAAGAAA----
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

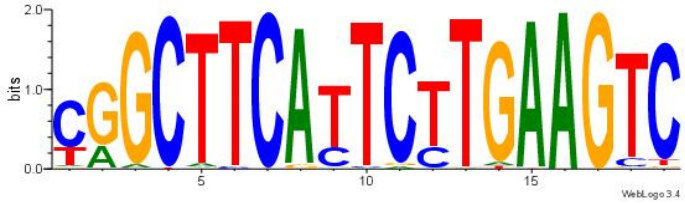

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0781576

Alignment:

```
GTAGACKGGAGCTGTTCCT
----------TTTCTTCCT
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

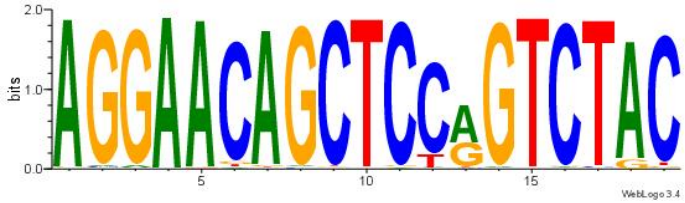

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

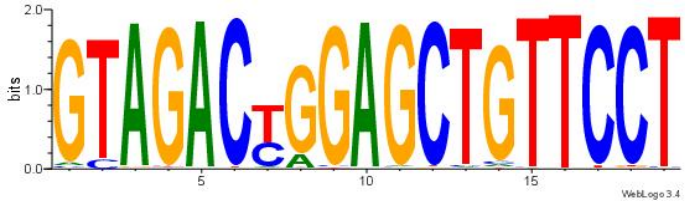

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9

Similarity score: 0.0781967

Alignment:
GAGGAGGRGGAGGDGGV
-AGGAAGAAA-------

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

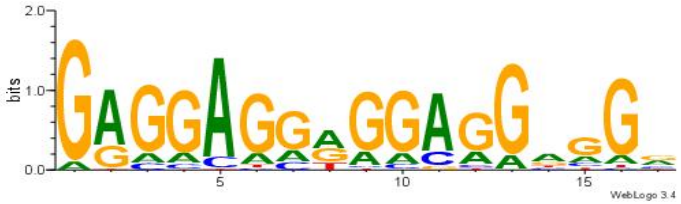

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

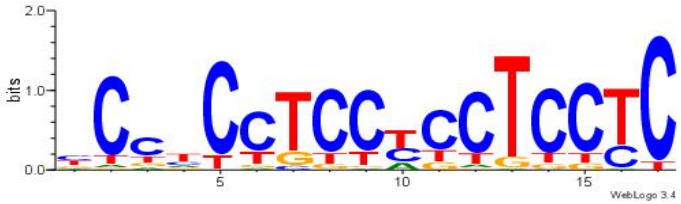

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0785643

Alignment:
TCAGGAGTGAAGCTGC
--AGGAAGAAA-----

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

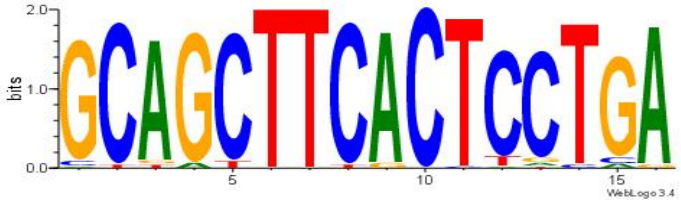

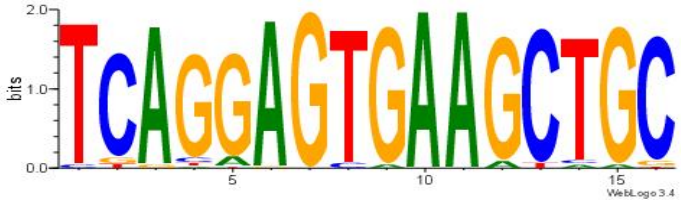

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0787319

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-------AGGAAGAAA----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

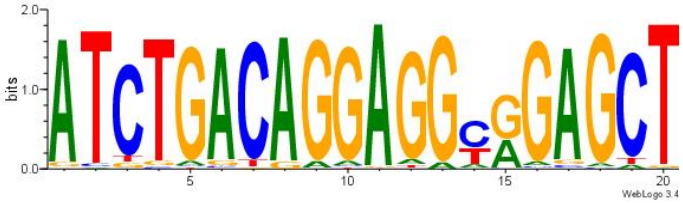

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

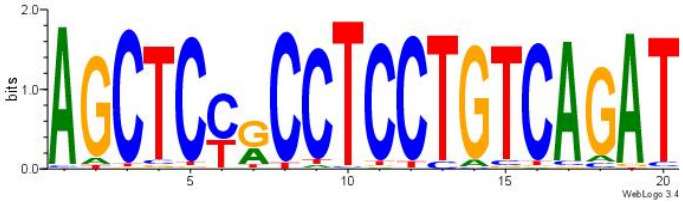

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0787361

Alignment:

```
TYTGTCMTTTTGTGACTGGC
--------TTTCTTCCT---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

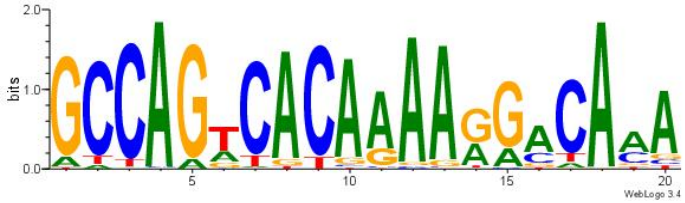

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

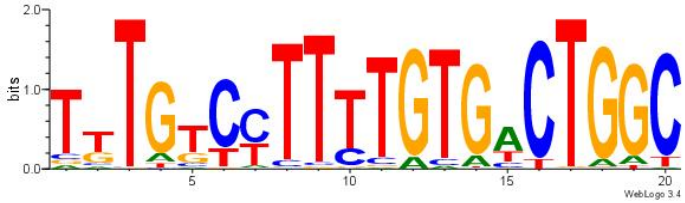

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9

Similarity score: 0.0795154

Alignment:
GCCAGGCAGAGRGKCTCCT
---AGGAAGAAA-------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

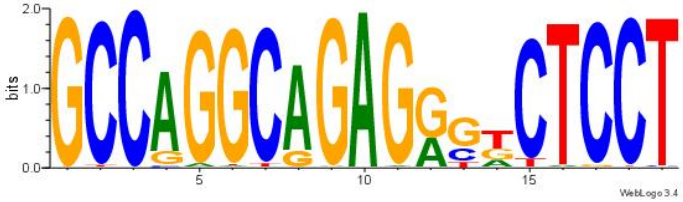

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

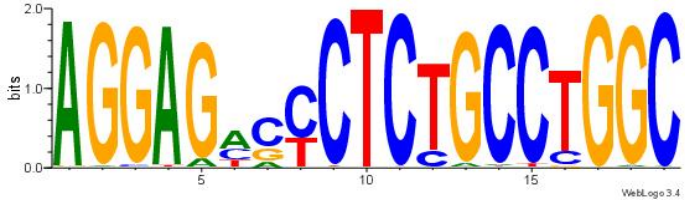

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.079559

Alignment:
GGATTTMKGACTTGCATGGG
---TTTCTTCCT--------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

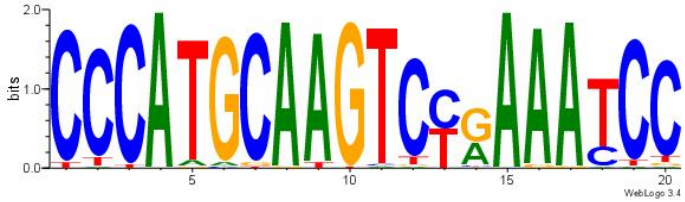

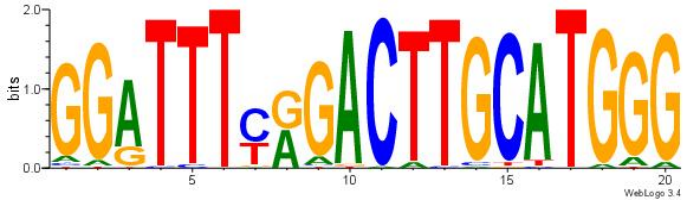

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0805127

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
----------AGGAAGAAA-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

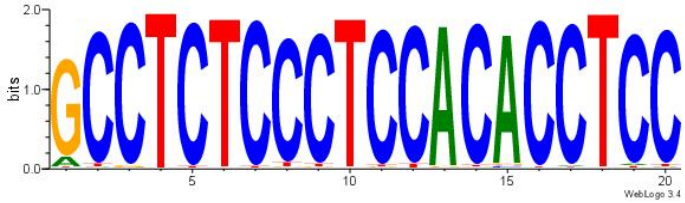

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

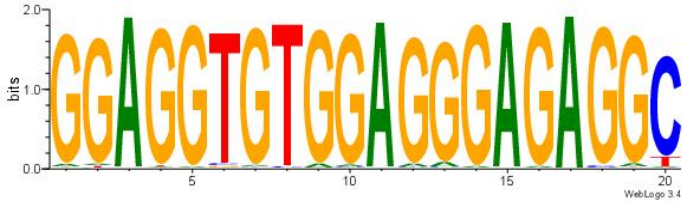

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0808674

Alignment:

```
ACACATCACAAAGCAGTTTC
-------AGGAAGAAA----
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

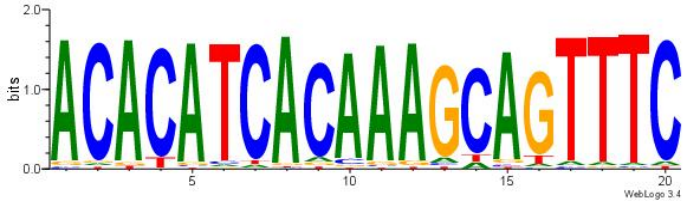

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

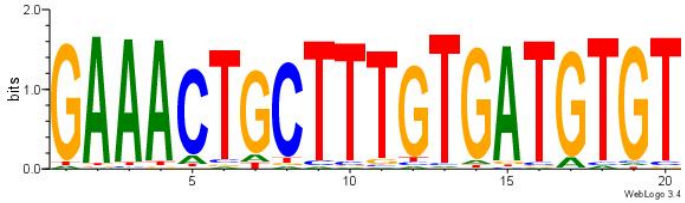

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0811428

Alignment:
CTAGACATAAAGGTTCTCCA
--AGGAAGAAA---------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

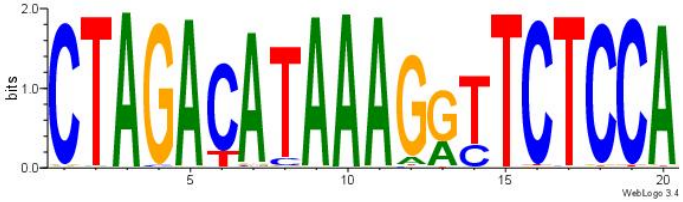

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

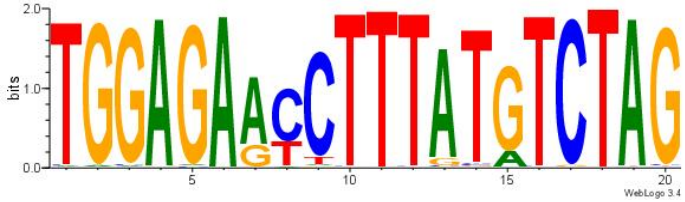

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 9
Similarity score: 0.0814887

Alignment:
KCCGGGCCTTAGCTGCCTTC
---------TTTCTTCCT--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

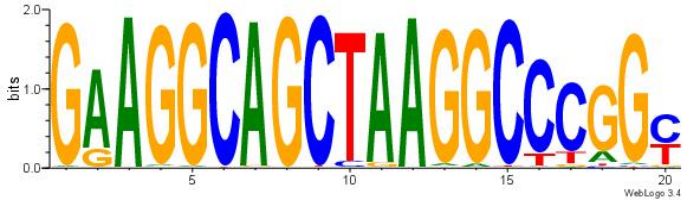

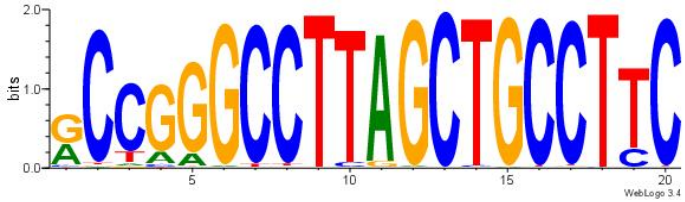

Dataset #:	1
Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0821089

Alignment:

```
GAGAACGTAG
-AGGAAGAAA
```

Original motif Consensus sequence: CTACGTTCTC

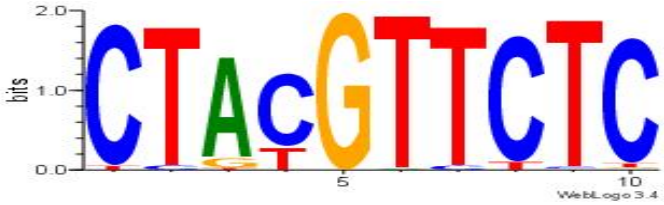

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #:	1
Motif ID:	339

Motif name:	Motif 339
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0824167

Alignment:

```
GCAGGAGGTGAG
--AGGAAGAAA-
```

Original motif Consensus sequence: CTCACCTCCTGC

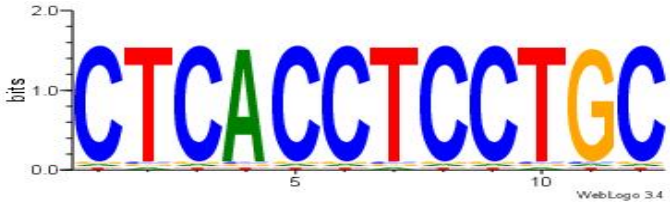

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

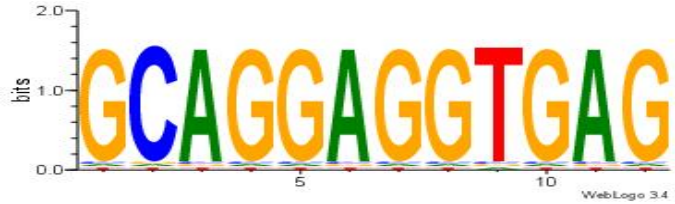

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0827026

Alignment:
TGTTATGCCTGAAAGT
-TTTCTTCCT------

Original motif Consensus sequence: ACTTTCAGGCATAACA

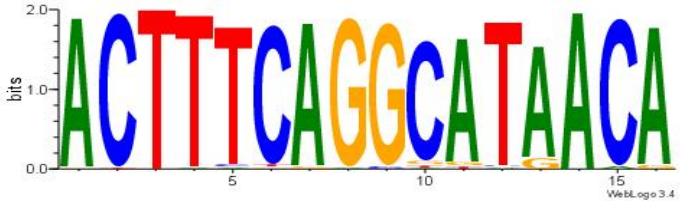

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

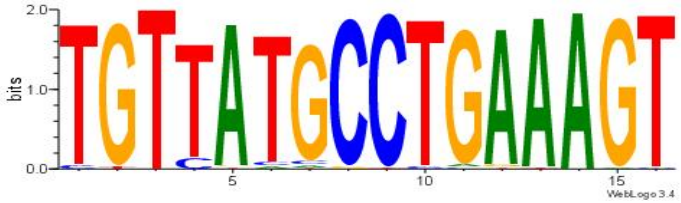

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0831523

Alignment:
AGGTATTTCTCCCACC
-----TTTCTTCCT--

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

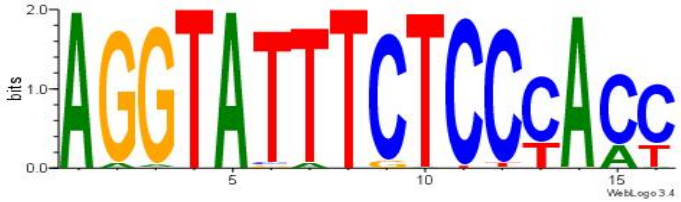

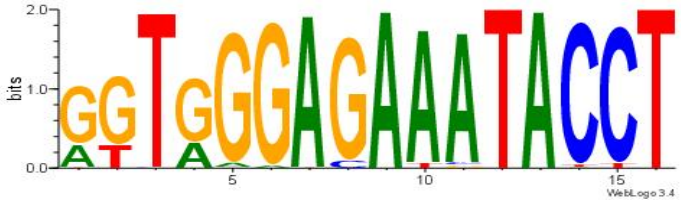

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0834171

Alignment:

```
AAGACGGGTGATTTCTG
-------TTTCTTCCT-
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

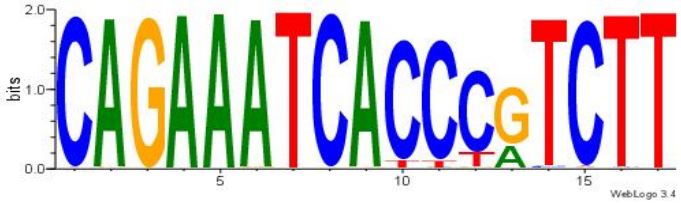

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

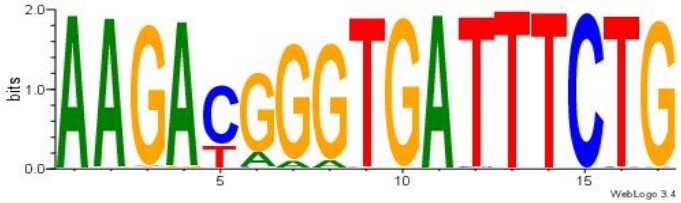

Dataset #: 1

Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0848431

Alignment:

```
GGTGATTTCTG
-TTTCTTCCT-
```

Original motif Consensus sequence: CAGAAATCACC

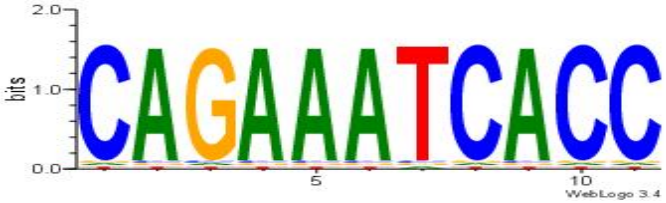

Reverse complement motif Consensus sequence: GGTGATTTCTG

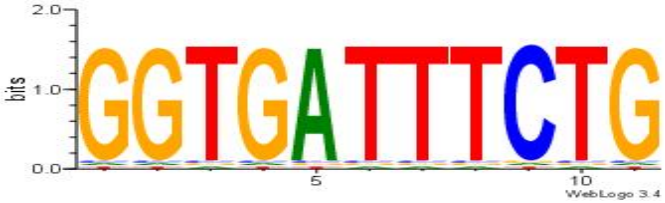

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0854953

Alignment:
AGAAATCGAGCRCAGCGCCG
AGGAAGAAA----------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

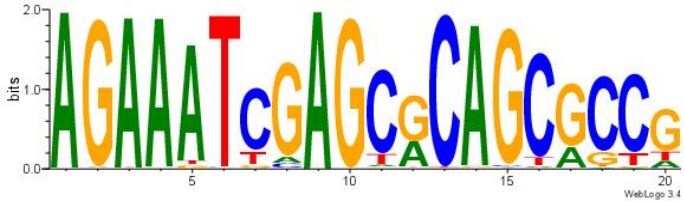

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

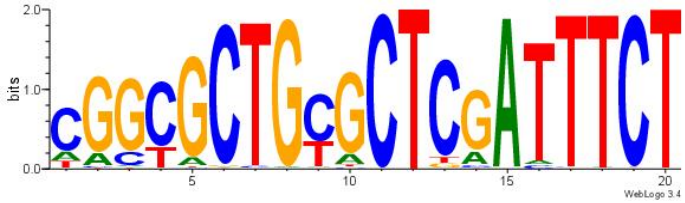

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0856205

Alignment:
CGGAAGTGACGT
AGGAAGAAA---

Original motif Consensus sequence: CGGAAGTGACGT

Reverse complement motif Consensus sequence: ACGTCACTTCCG

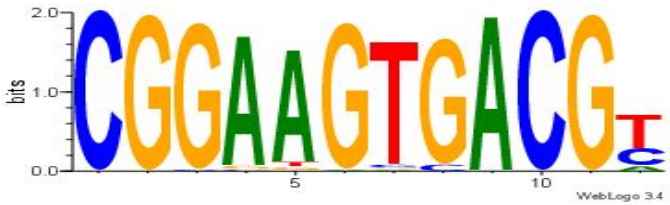

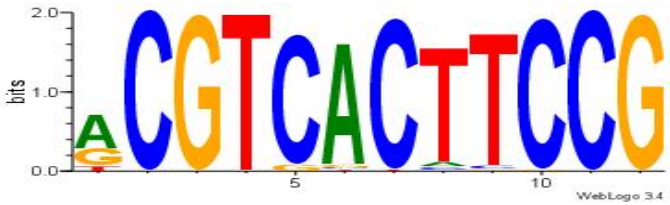

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0858639

Alignment:

```
GGTGCCCCTCTGGGACRAA
----------AGGAAGAAA
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

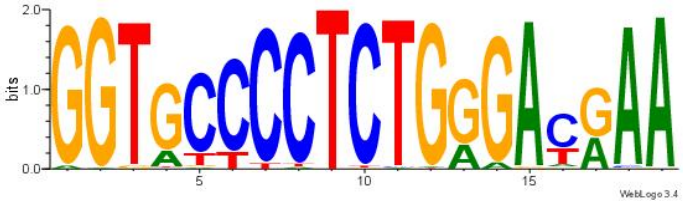

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

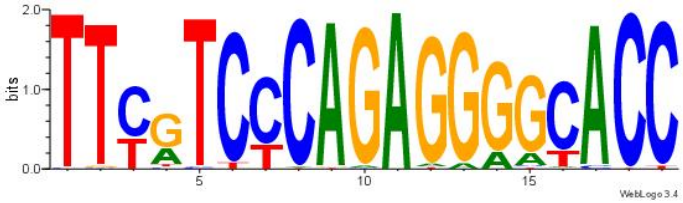

Dataset #:	1

Motif ID:	268
Motif name:	Motif 268
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0868667

Alignment:

```
GGTCTCACTAT
TTTCTTCCT--
```

Original motif Consensus sequence: ATAGTGAGACC

Reverse complement motif Consensus sequence: GGTCTCACTAT

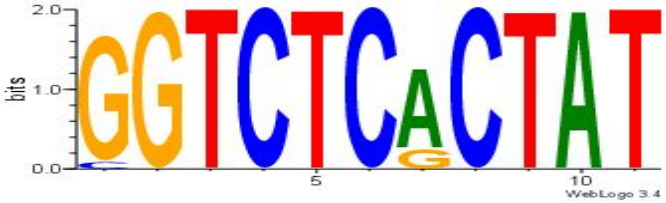

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0869176

Alignment:
GCGGCAGCAAGGC
-AGGAAGAAA---

Original motif Consensus sequence: GCCTTGCTGCCGC

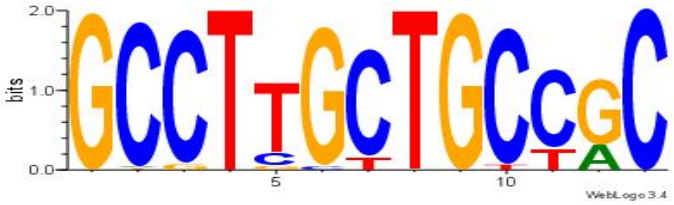

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

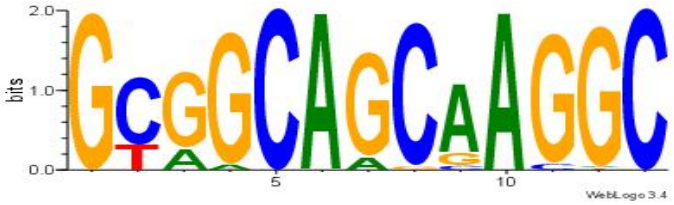

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0873569

Alignment:
GGGAGGTGTCTCCCAGTCAG
------TTTCTTCCT-----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

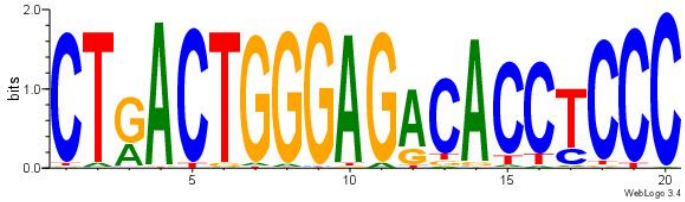

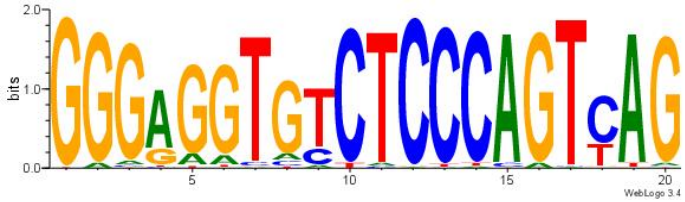

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0875183

Alignment:

```
CKAGTCAAAGAAA
----AGGAAGAAA
```

Original motif Consensus sequence: CKAGTCAAAGAAA

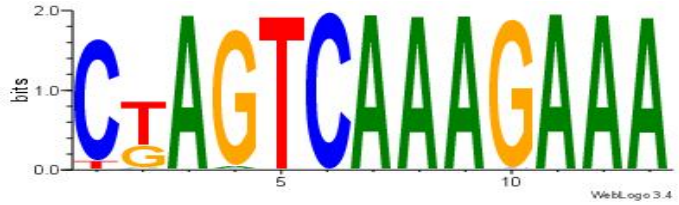

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

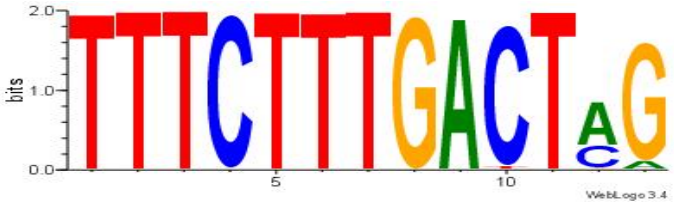

Dataset #:	1
Motif ID:	290

Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0876319

Alignment:

```
CTGTTTGCCTGGGTATCA
-TTTCTTCCT--------
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

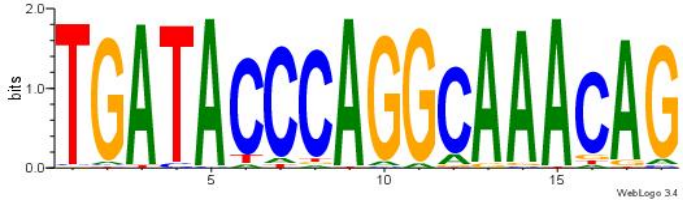

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

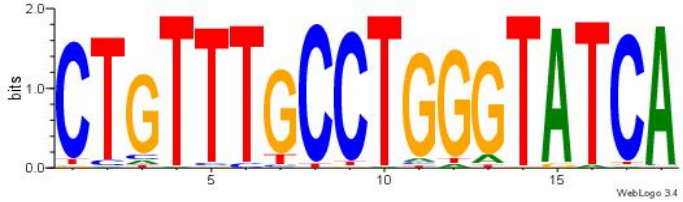

Dataset #: 1 Motif ID: 78 Motif name: Motif 78

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

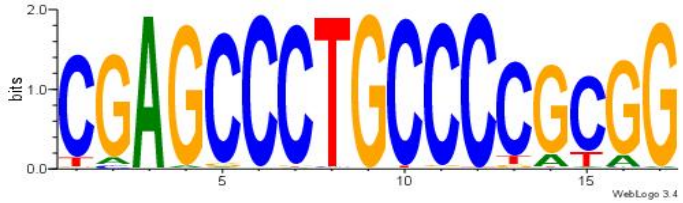

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

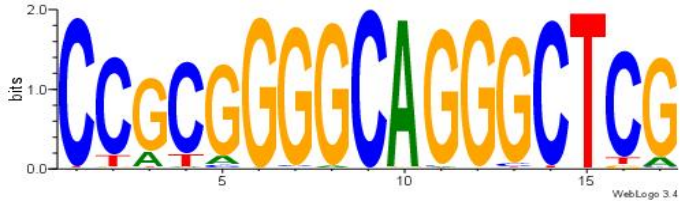

Best Matches for Motif ID 78 (Highest to Lowest)

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0803184

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

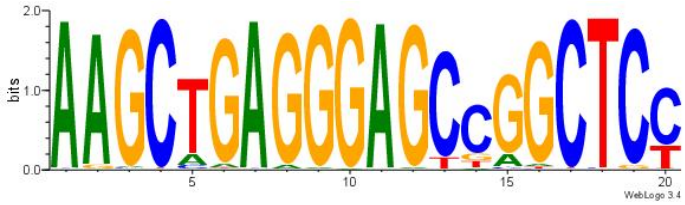

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

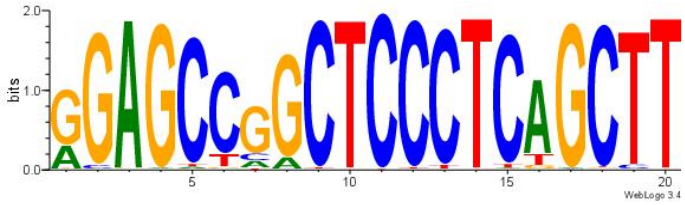

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0851642

Alignment:
GCCGGGRAGAGGCGCTCCT
-CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

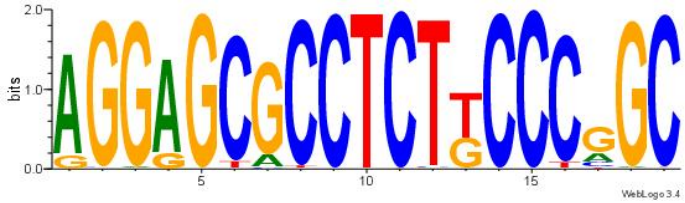

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

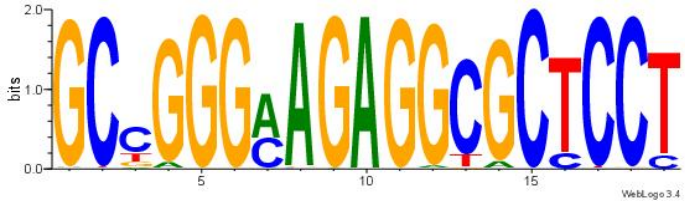

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0879196

Alignment:
AGAGCTCTGGCTGGCATCT
CGAGCCCTGCCCCGCGG--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

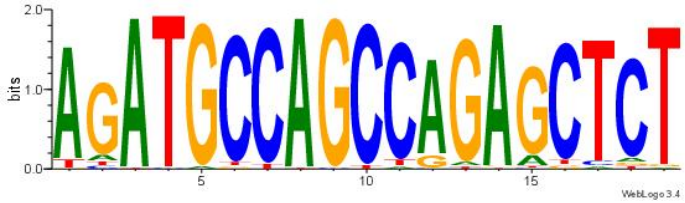

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

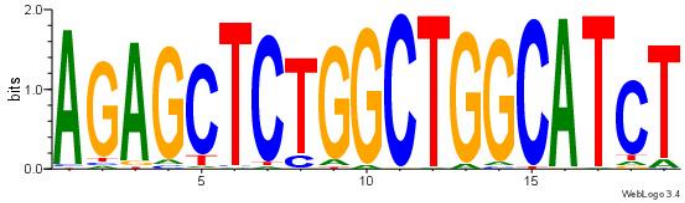

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0902181

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-CCGCGGGGCAGGGCTCG--
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

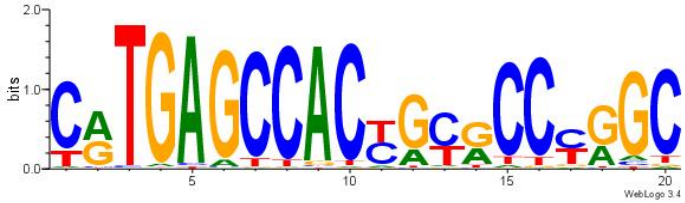

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

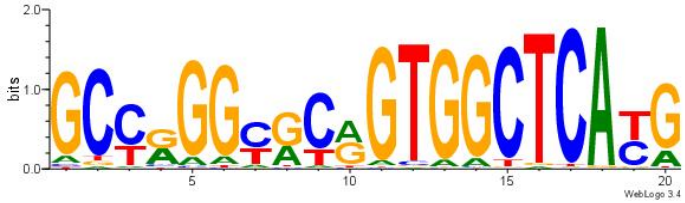

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0910467

Alignment:

```
TAMGACCTCAGGTCCTCAG
--CGAGCCCTGCCCCGCGG
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

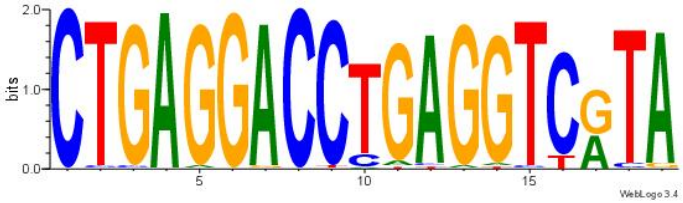

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

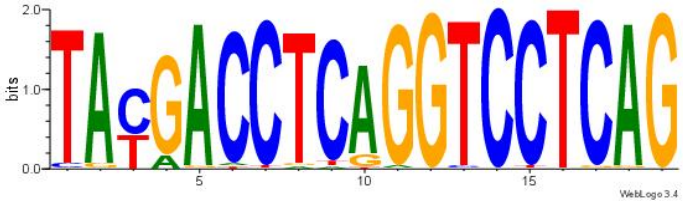

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.091722

Alignment:
CTTGCGCTTCCCRRGTGA
CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

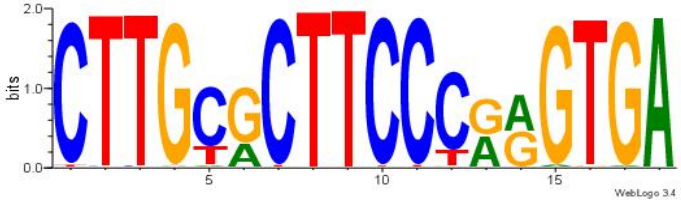

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

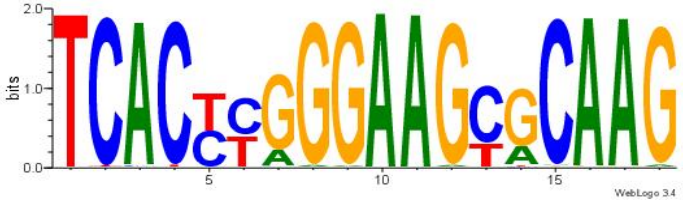

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.092286

Alignment:
CTTTCTGGGCTGGCCAAGG
-CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

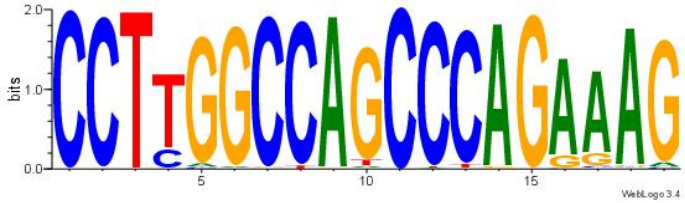

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

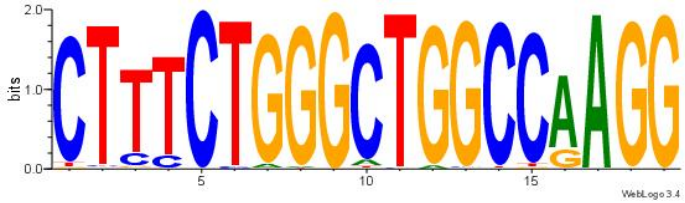

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0960782

Alignment:

```
TCCCTCCCGGACGGGGYGGC
--CCGCGGGGCAGGGCTCG-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

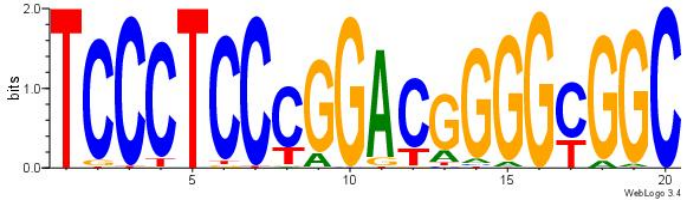

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

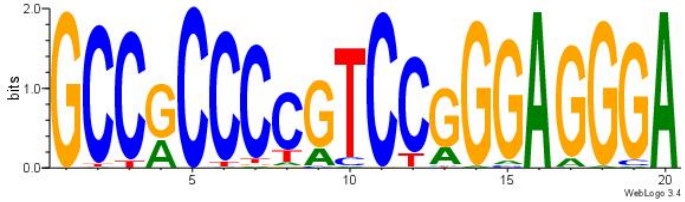

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0966974

Alignment:

```
AAGCAGGGCGAGGCATTGCC
---CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

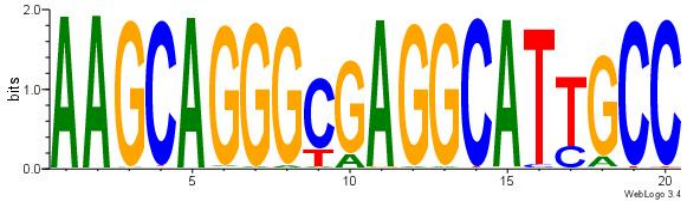

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

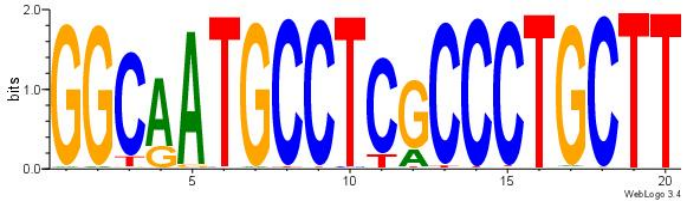

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.0985669

Alignment:
CGAGCCTCCCCGAYGAGCGC
CGAGCCCTGCCCCGCGG---

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

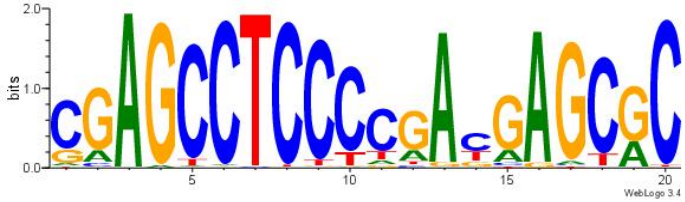

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

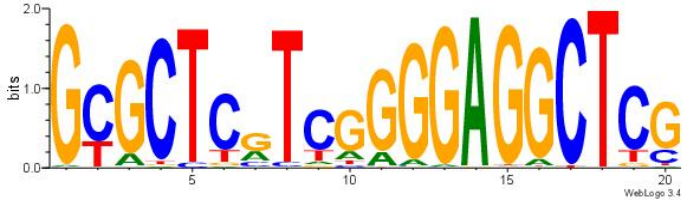

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0993905

Alignment:
CCGCTGCACTGTGGGAGCCC
CCGCGGGGCAGGGCTCG---

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

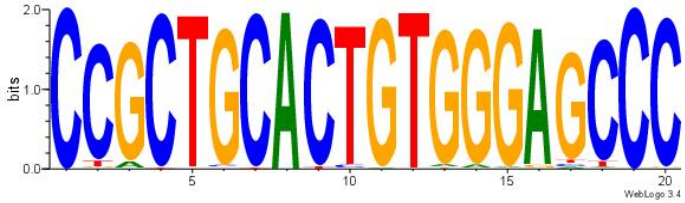

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

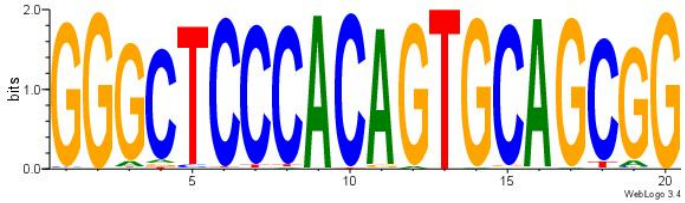

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0997929

Alignment:

```
ATTAGCYRGGCRTGGTGGC
-CGAGCCCTGCCCCGCGG-
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

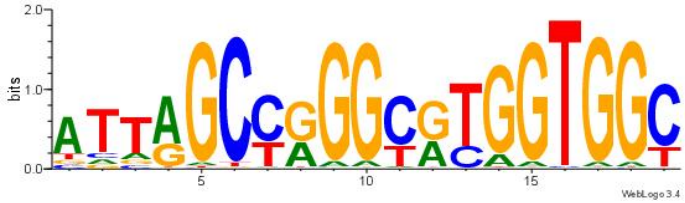

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

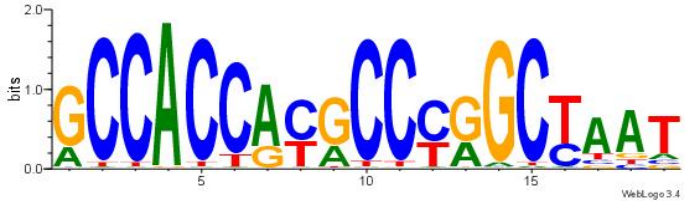

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0998539

Alignment:
MGTCTMKCTCTGTKGCCCAG
CGAGCCCTGCCCCGCGG---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

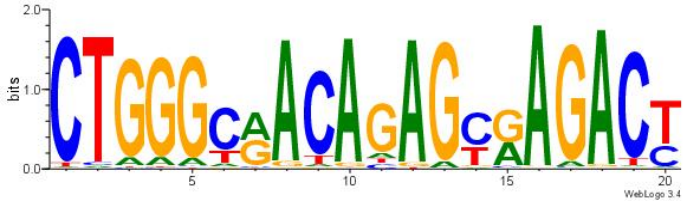

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

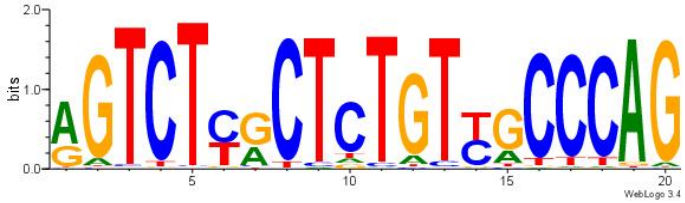

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.100805

Alignment:
AGGAGRCMCTCTGCCTGGC
-CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

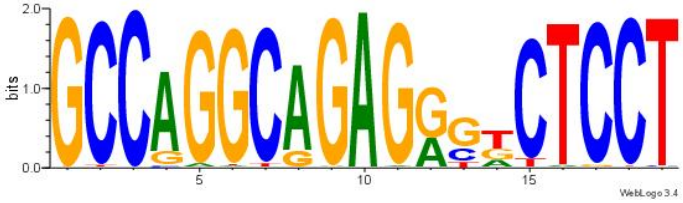

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

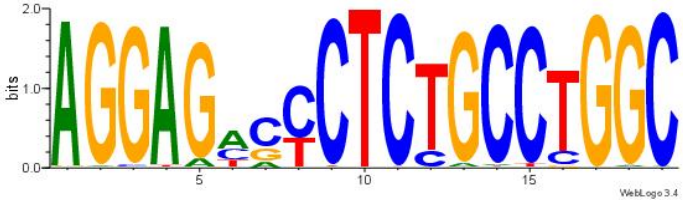

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.102072

Alignment:
CGCGGCGCTTGCGGGCCAGC
--CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

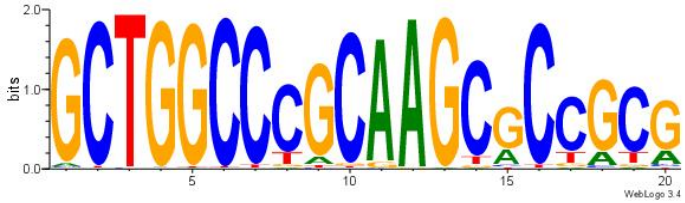

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

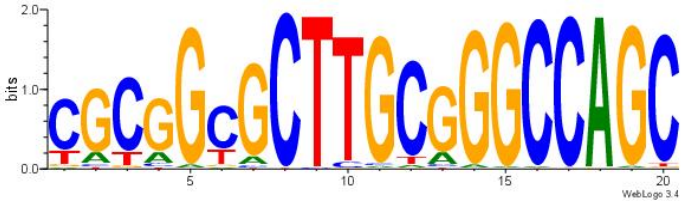

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.104516

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---CGAGCCCTGCCCCGCGG
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

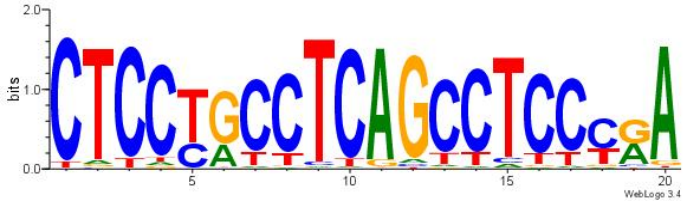

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

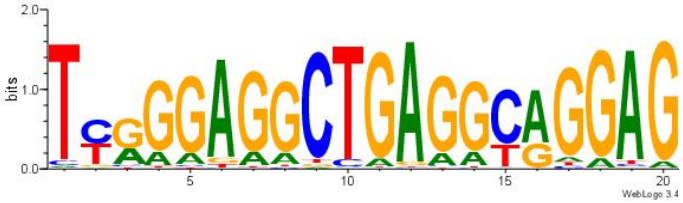

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.10473

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--CGAGCCCTGCCCCGCGG-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

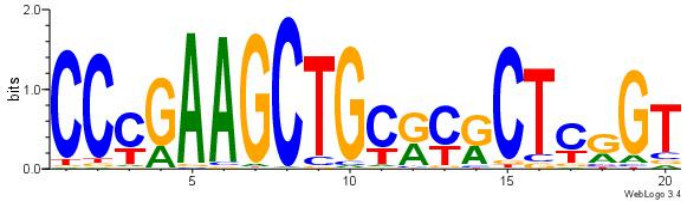

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

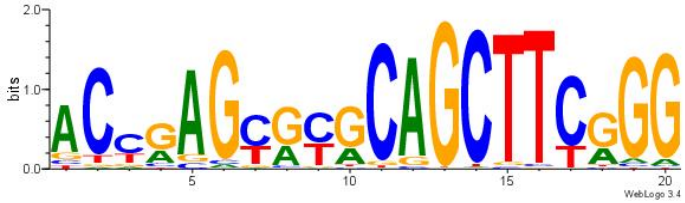

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.105909

Alignment:
GCTGGCCCKGGTGCTAAGC
-CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

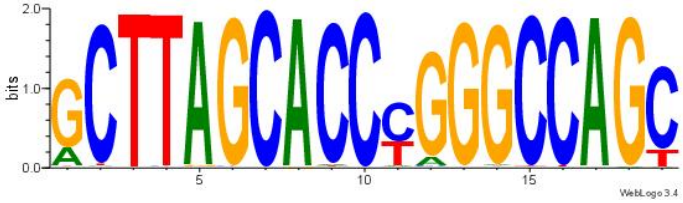

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

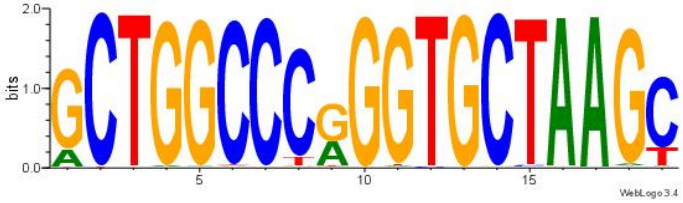

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.106005

Alignment:
AGCCCCGGTTCCCGCYCGC
-CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

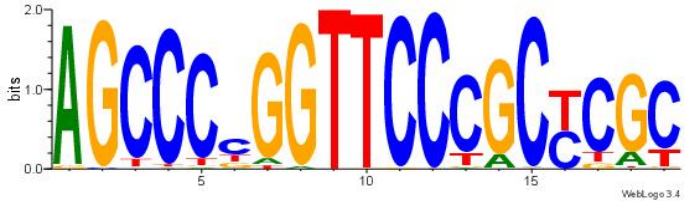

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

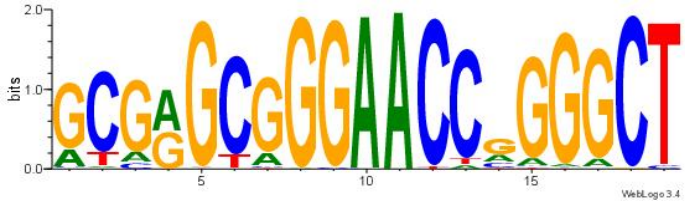

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.106412

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
---CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

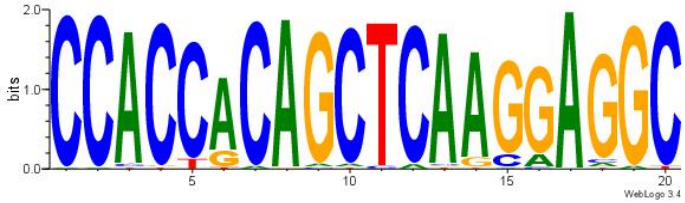

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

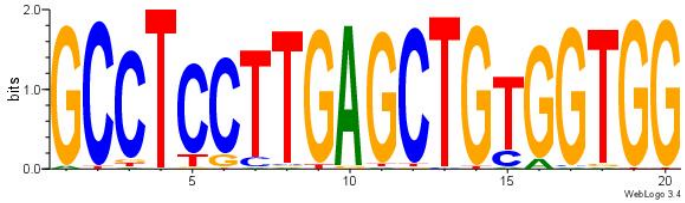

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.106644

Alignment:
MGAAGGGACTTGCCTTGT
CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

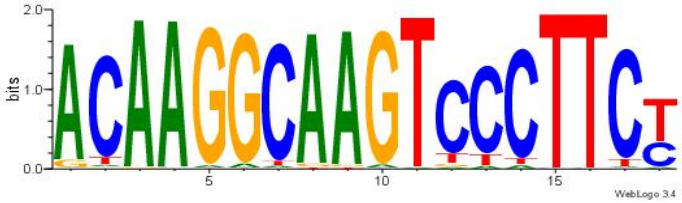

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

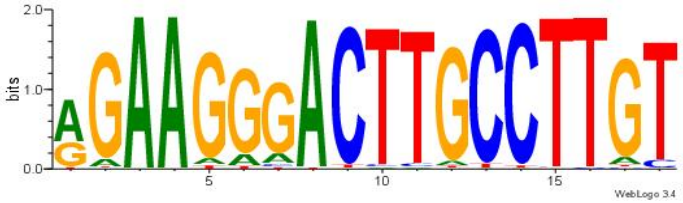

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.107652

Alignment:
TCKMGCCACTGCACTCCAGC
-CGAGCCCTGCCCCGCGG--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

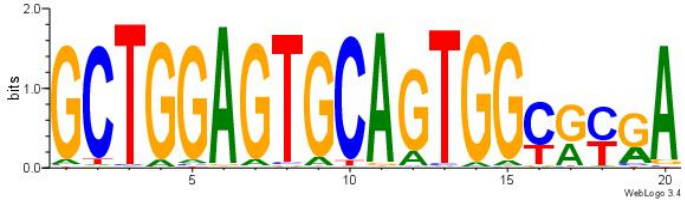

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

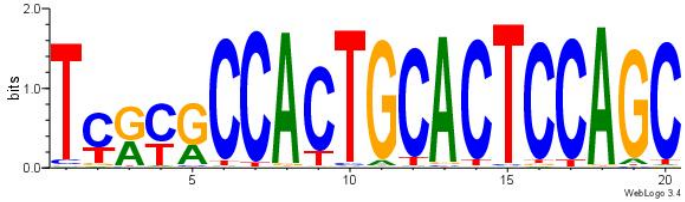

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.108656

Alignment:
GACTGGCAGGCAGCTCCACC
-CCGCGGGGCAGGGCTCG--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

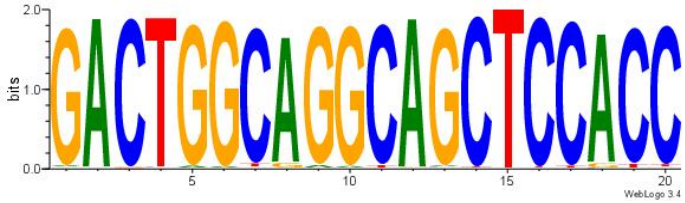

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

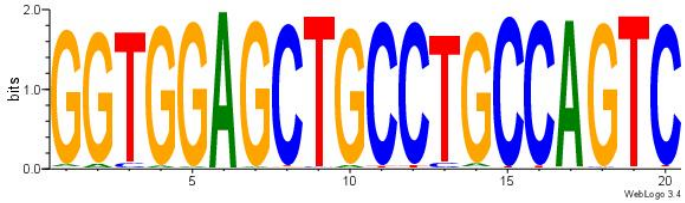

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.108775

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-CCGCGGGGCAGGGCTCG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

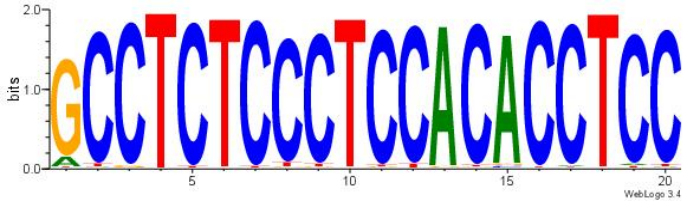

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

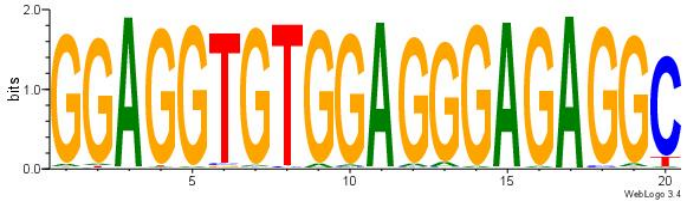

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.108851

Alignment:
GGGTGCAGGMGGGCTGAGT
CCGCGGGGCAGGGCTCG--

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

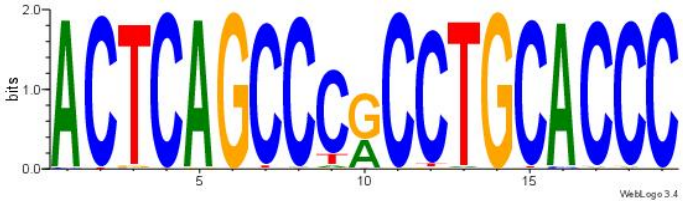

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

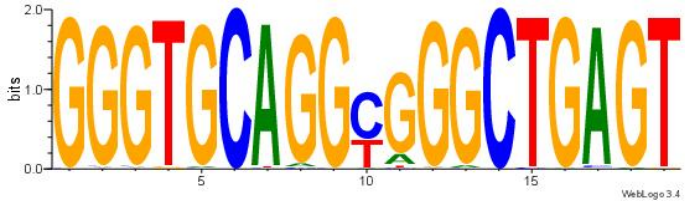

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.109127

Alignment:
GCCAATTTCTCCCATTTGGA
--CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

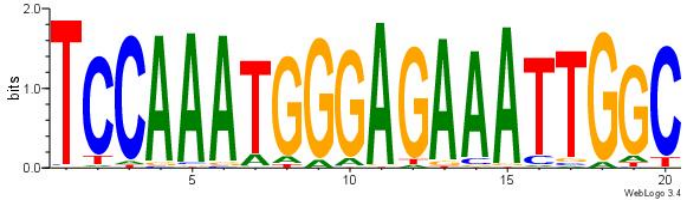

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

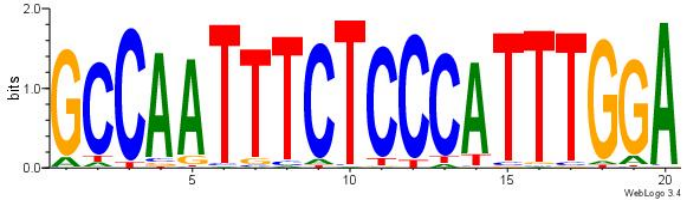

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.109614

Alignment:
AGTTCCGGGTGGGCGTGGG
-CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

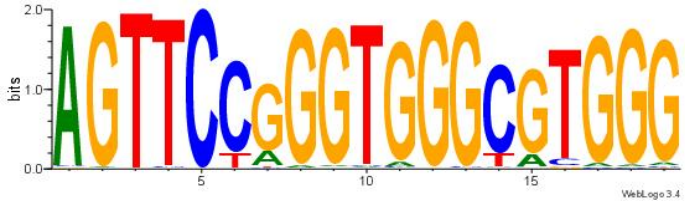

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

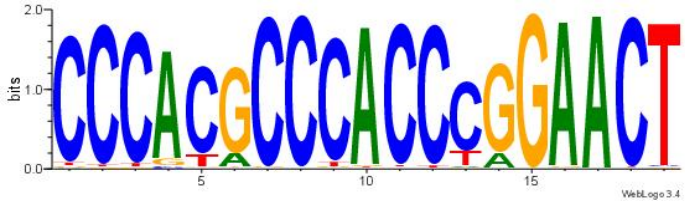

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.109664

Alignment:

```
CGCCCATCGTCTGGGATGT
--CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

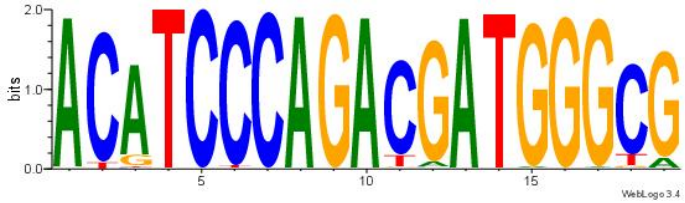

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

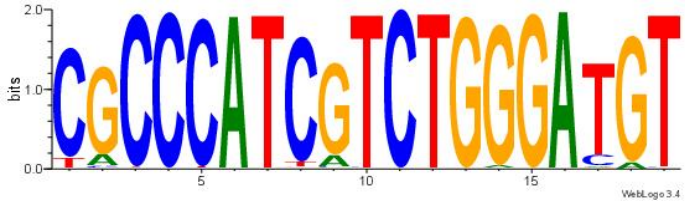

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.110369

Alignment:

```
CCTGCCATTGCYSAGGCTTG
CGAGCCCTGCCCCGCGG---
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

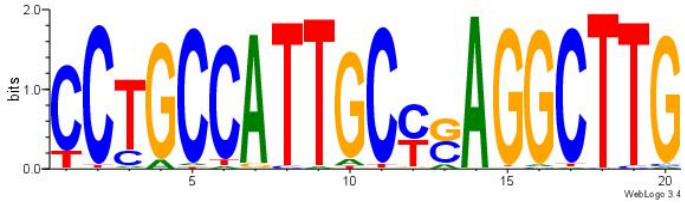

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

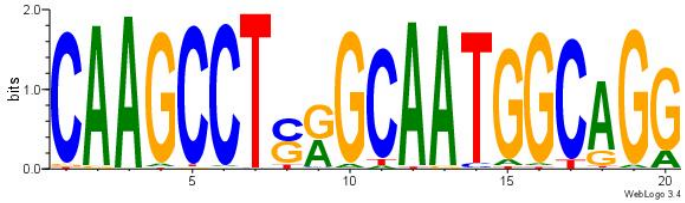

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.110505

Alignment:
AATCAACCCTGGYRATCAAT
--CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

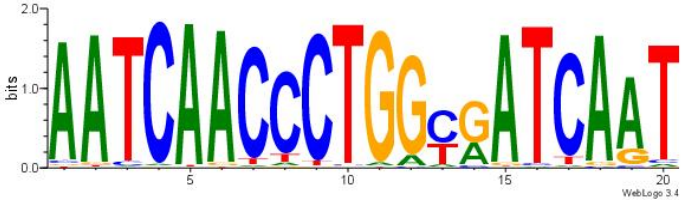

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

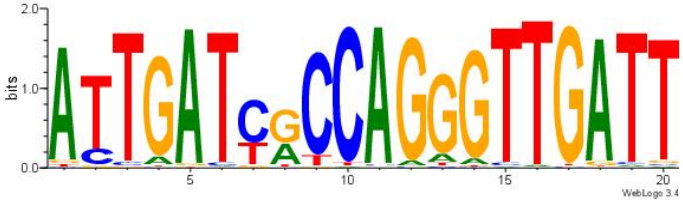

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.111264

Alignment:
GAAGGCAGCTAAGGCCCGGY
-CCGCGGGGCAGGGCTCG--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

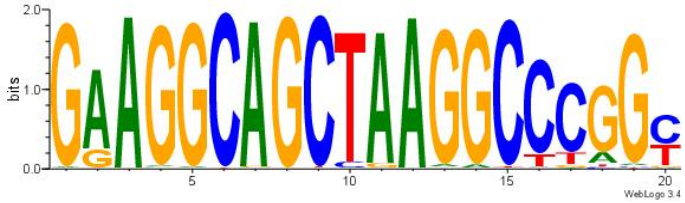

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

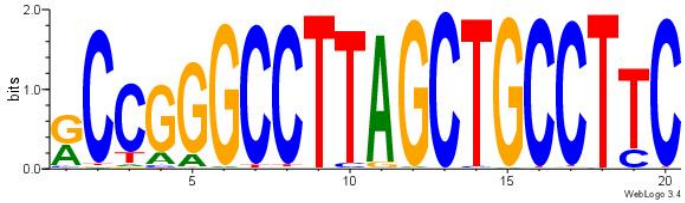

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.111485

Alignment:

```
GGTGGGGGGGTCAGCCCCC
--CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

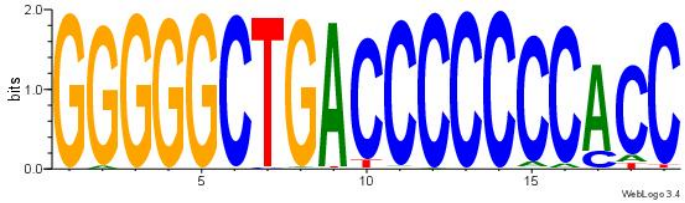

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

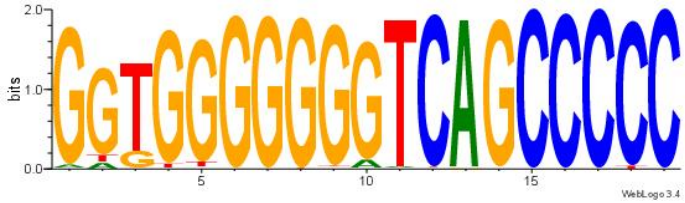

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.111795

Alignment:

```
GTGCCAGGCACTGTKCTARG
-CCGCGGGGCAGGGCTCG--
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

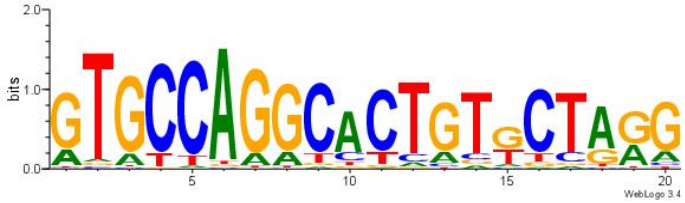

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

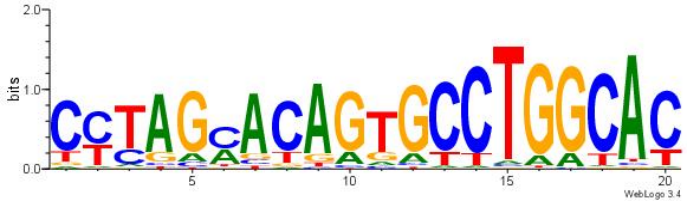

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.112336

Alignment:
MCCYGGCWSMGASGSTCCT
-CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

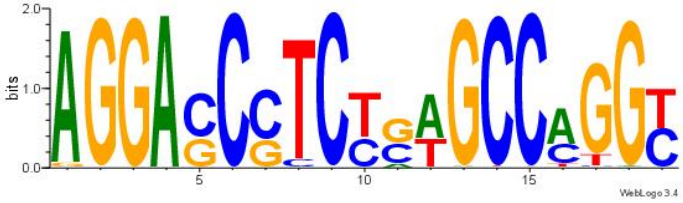

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

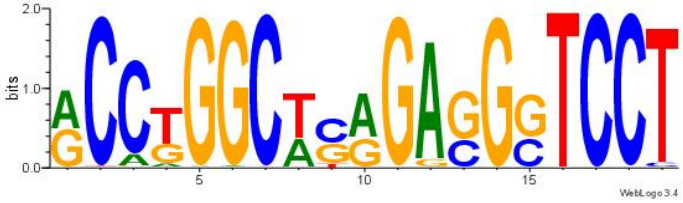

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.112999

Alignment:
TTCAMTCATGATTTGGCTCT
---CCGCGGGGCAGGGCTCG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

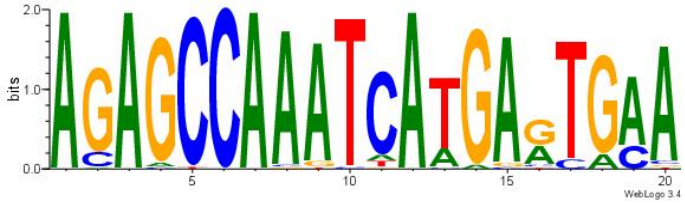

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

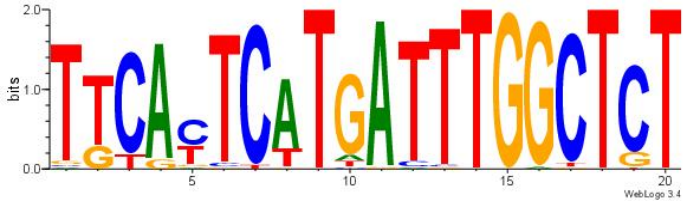

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.11317

Alignment:

```
CAAGCGCCAGCTCATGTC
CGAGCCCTGCCCCGCGG-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

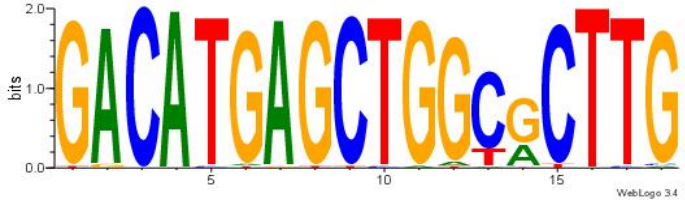

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

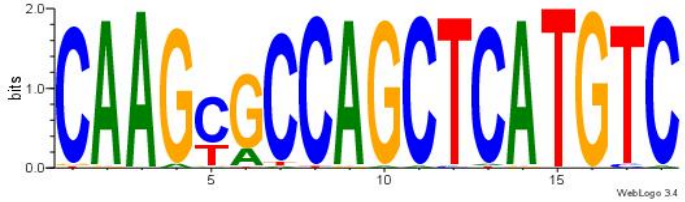

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.113562

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-CGAGCCCTGCCCCGCGG--
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

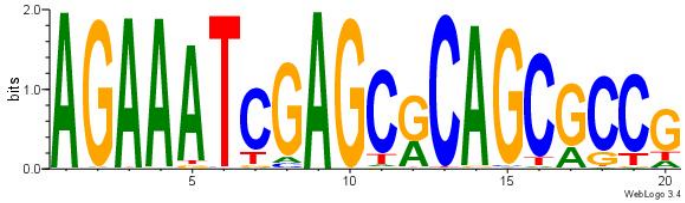

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

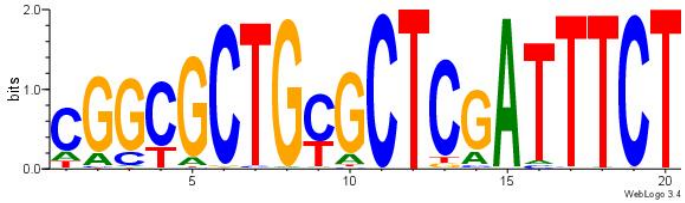

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.113936

Alignment:
AGGGCCTTTGCASWTGC
CGAGCCCTGCCCCGCGG

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

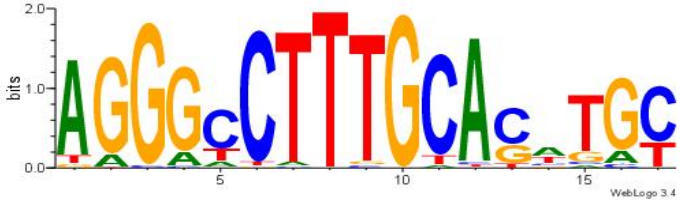

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

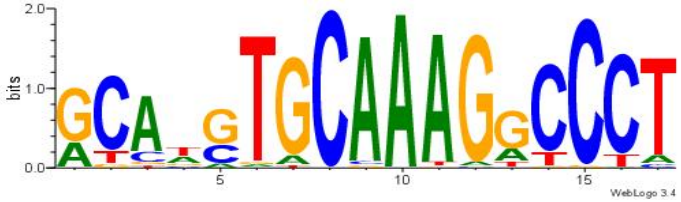

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.118446

Alignment:
CCCYAATACTGCGCTTTTC
CGAGCCCTGCCCCGCGG--

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

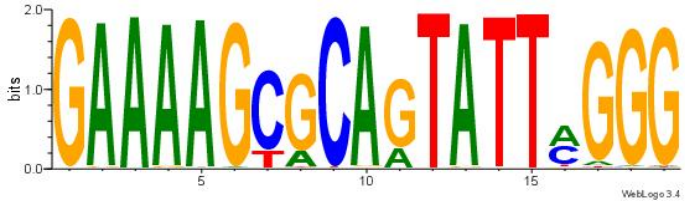

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

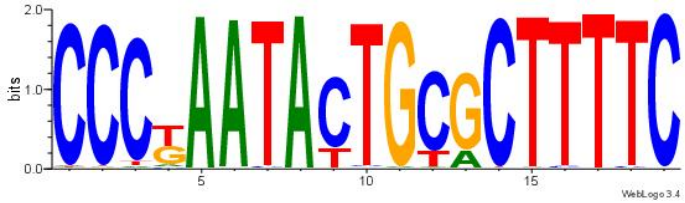

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.119745

Alignment:

```
TTMGTCCCAGAGGGGCACC
--CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

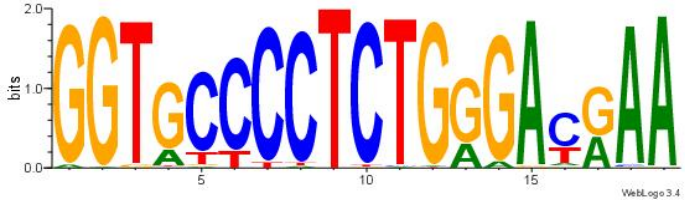

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

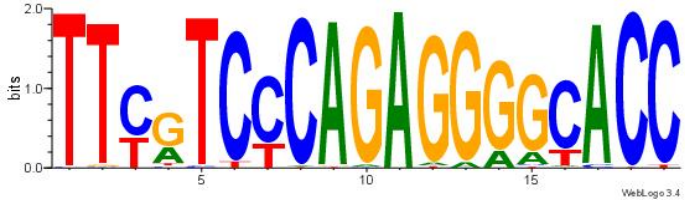

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.119849

Alignment:

```
ACTTTGGACTGTGGACTTTT
CCGCGGGGCAGGGCTCG---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

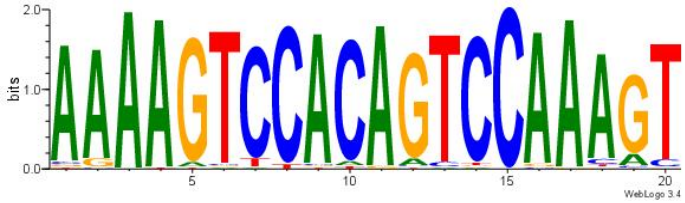

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

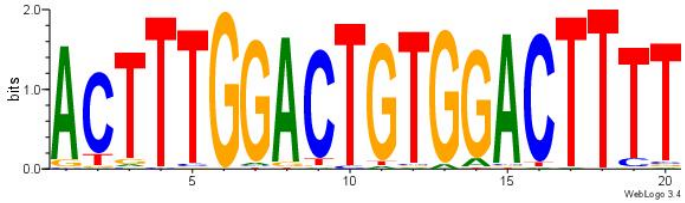

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.119901

Alignment:
GTAACACTCACCGCGARGGT
-CGAGCCCTGCCCCGCGG--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

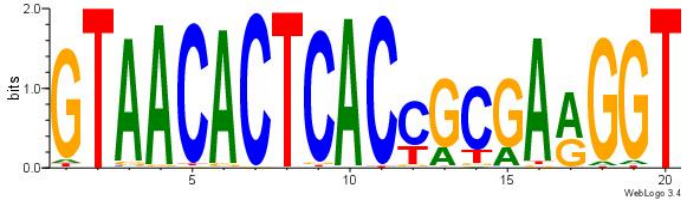

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

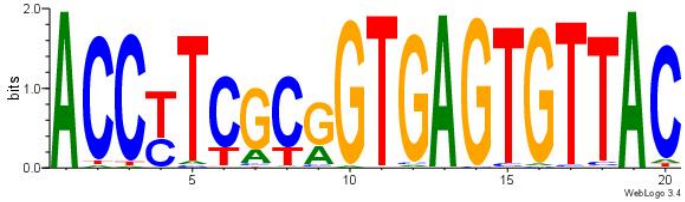

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.119912

Alignment:
CTGACTGGGAGACACCTCCC
CCGCGGGGCAGGGCTCG---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

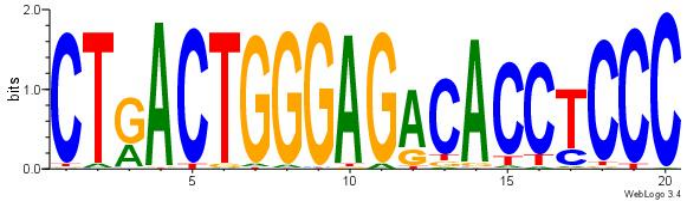

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

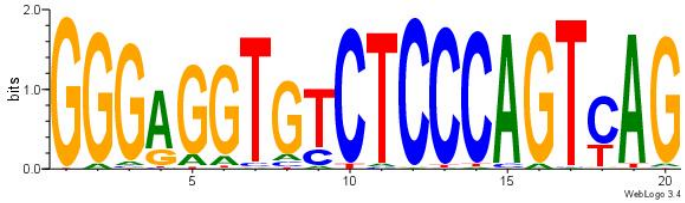

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.120101

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
-CGAGCCCTGCCCCGCGG--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

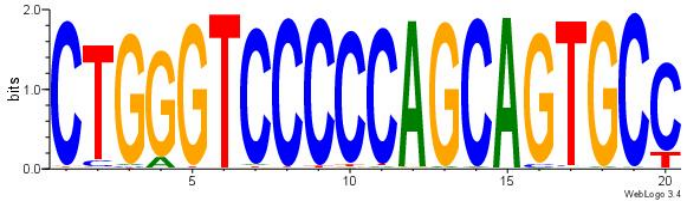

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

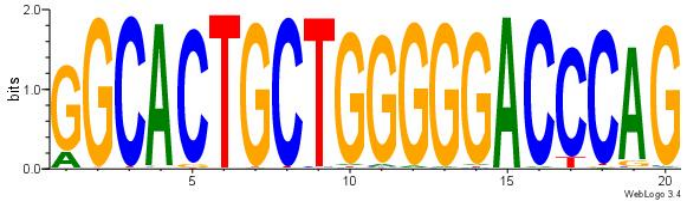

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.120299

Alignment:

```
CTCCAGKTMCATCCATGTTG
---CGAGCCCTGCCCCGCGG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

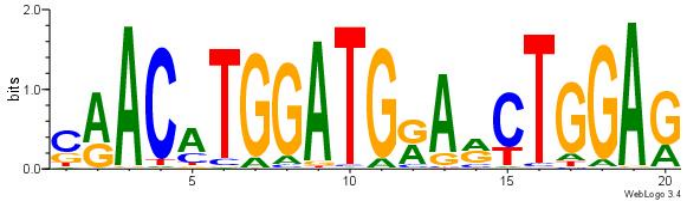

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

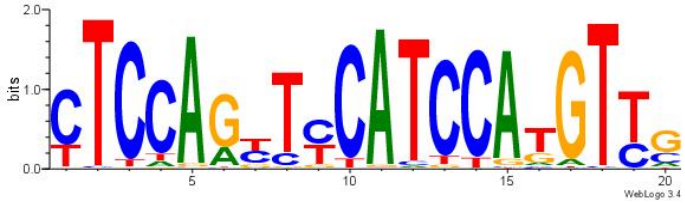

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.121101

Alignment:
AGCCYCTGGYAACCAYYAWT
--CCGCGGGGCAGGGCTCG-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

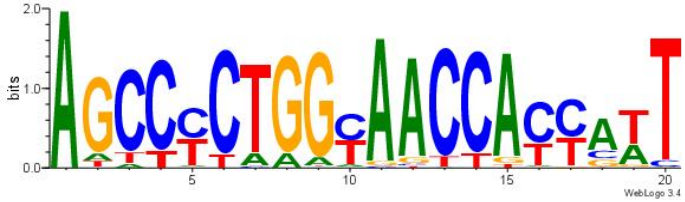

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

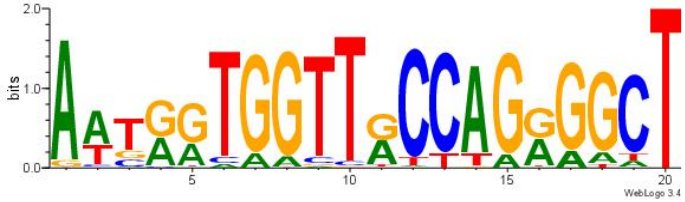

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.121129

Alignment:
CTTGCCCAAGGTCACACAGC
--CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

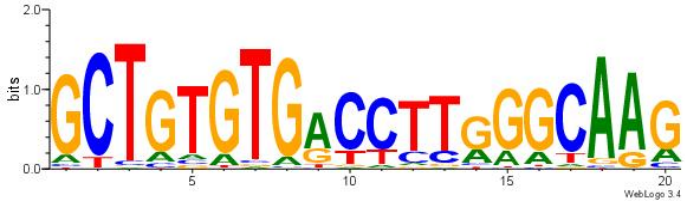

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

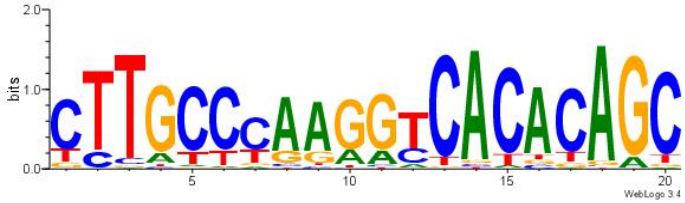

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.121205

Alignment:

```
GAATCCTGGGACAGCCTGT
--CCGCGGGGCAGGGCTCG
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

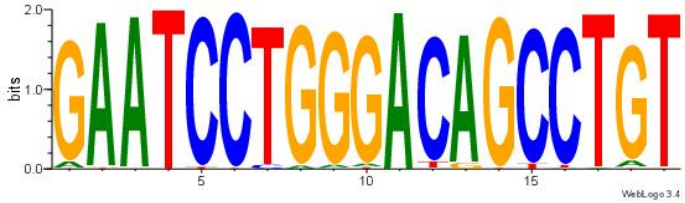

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

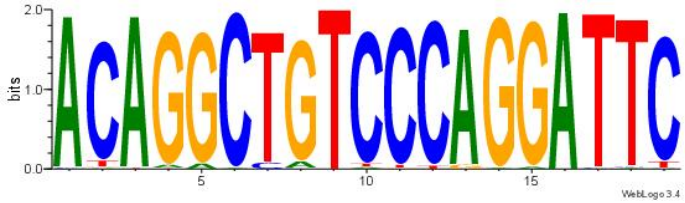

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.121331

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
CCGCGGGGCAGGGCTCG---
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

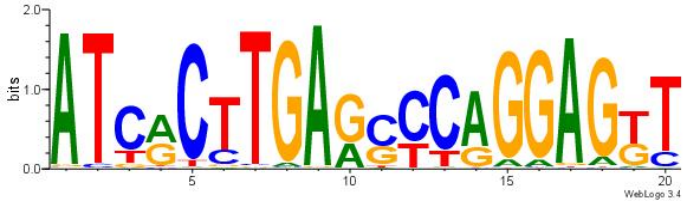

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

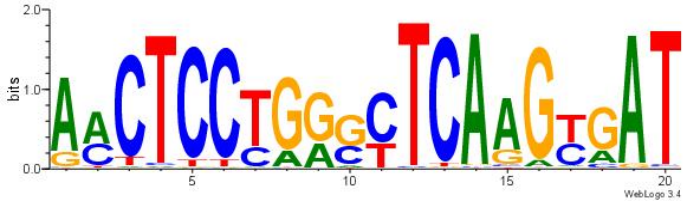

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.121357

Alignment:
AAATTACCCAGTCTCAGGTA
--CGAGCCCTGCCCCGCGG-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

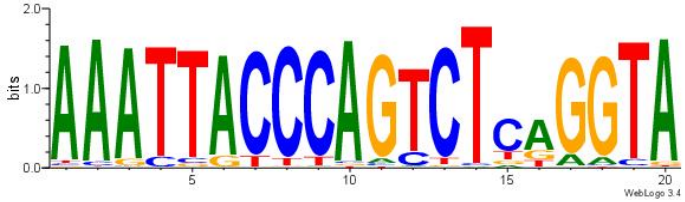

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

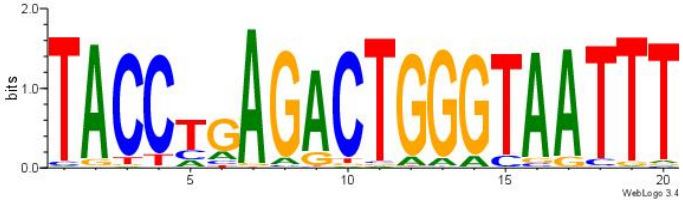

Dataset #: 1 Motif ID: 79 Motif name: Motif 79

Original motif Consensus sequence: AATGAATGAAT

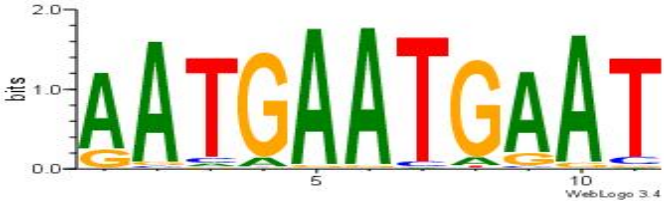

Reverse complement motif Consensus sequence: ATTCATTCATT

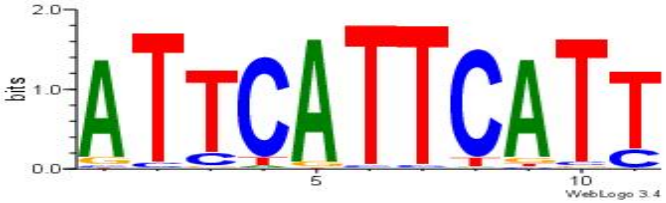

Best Matches for Motif ID 79 (Highest to Lowest)

Dataset #: 1
Motif ID: 341
Motif name: Motif 341
Matching format of first motif: Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0536965

Alignment:

```
TGGATGGATGGATGGAT
--AATGAATGAAT----
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

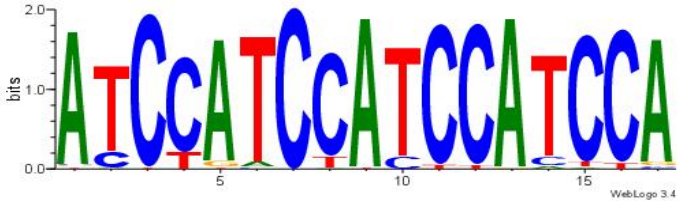

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0549499

Alignment:

CGGCTTCATTCTTGAAGTC
---ATTCATTCATT-----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

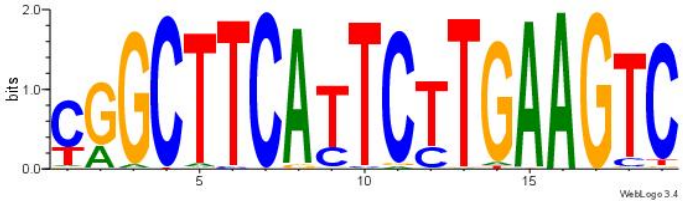

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0557571

Alignment:
CAAAGTCTTAACTCATT
------ATTCATTCATT

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

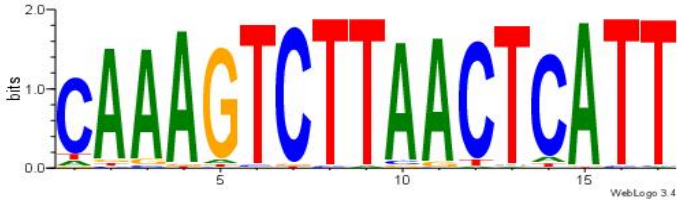

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0618186

Alignment:

```
GCACTGAGTGAACGA
--AATGAATGAAT--
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

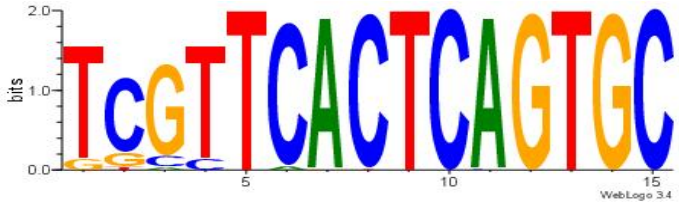

Dataset #:	1
Motif ID:	104

Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0646429

Alignment:

```
CAACATGGATGRARCTGGAG
---AATGAATGAAT------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

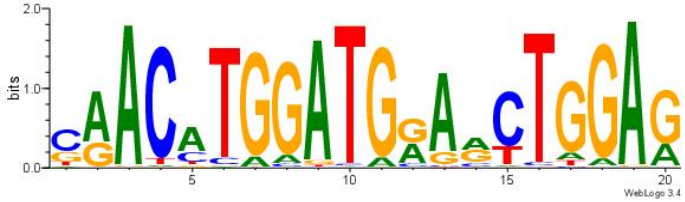

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

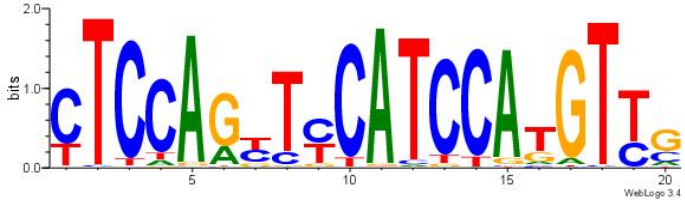

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.066176

Alignment:
GGTTTTCCATTCCTGAG
----ATTCATTCATT--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

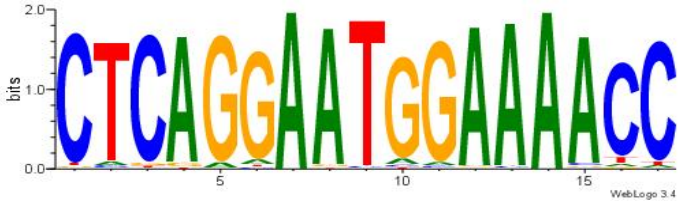

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

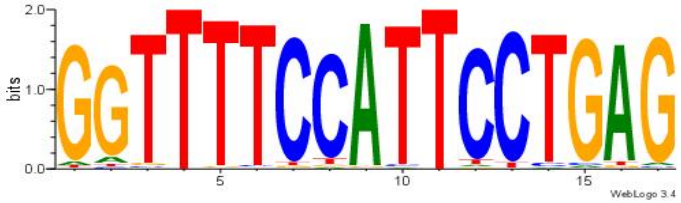

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0672434

Alignment:
CAATGATAGACTGGAT
-AATGAATGAAT----

Original motif Consensus sequence: ATCCAGTCTATCATTG

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

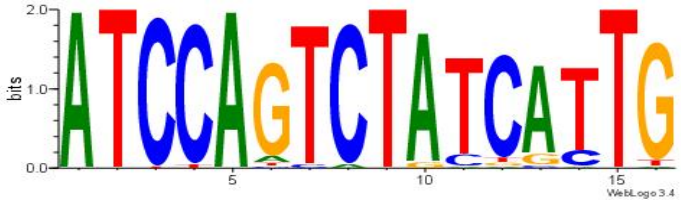

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0714479

Alignment:

```
GTTGTGAGGATTAAATGAG
-----AATGAATGAAT---
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

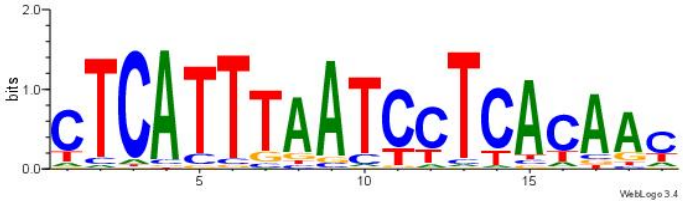

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

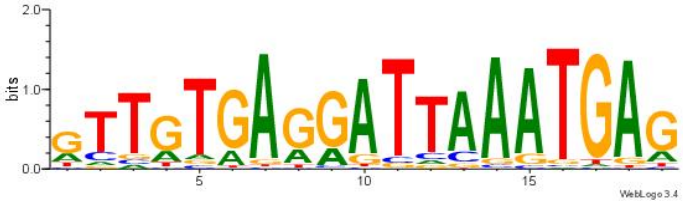

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0724247

Alignment:

```
AGAGCCAAATCATGARTGAA
------AATGAATGAAT---
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

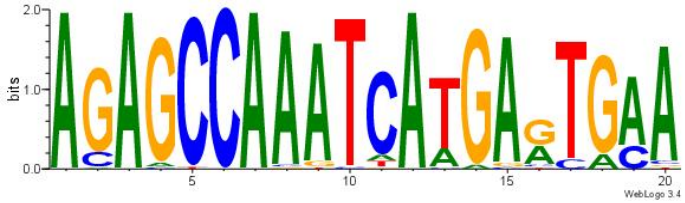

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

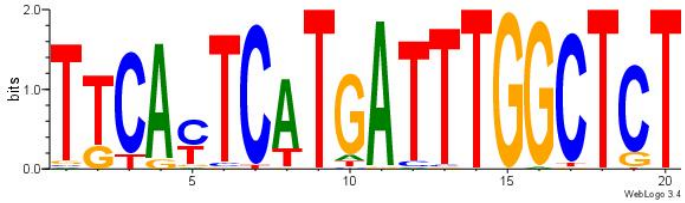

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.0725952

Alignment:
AAGGAACAAACTCCRGACAC
AATGAATGAAT---------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

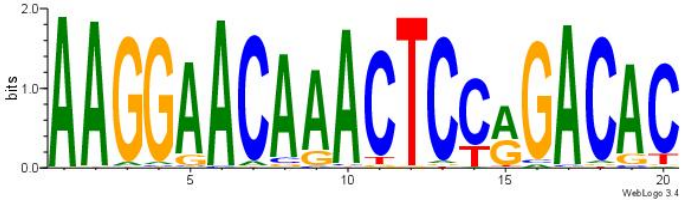

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

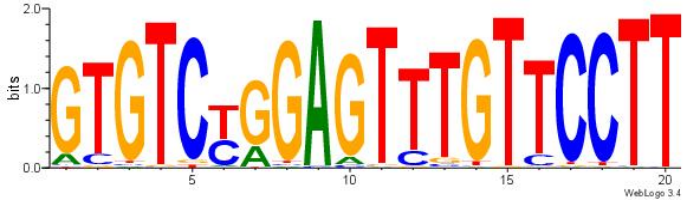

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0730058

Alignment:
GCAGCTTCACTCCTGA
----ATTCATTCATT-

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence:
TCAGGAGTGAAGCTGC

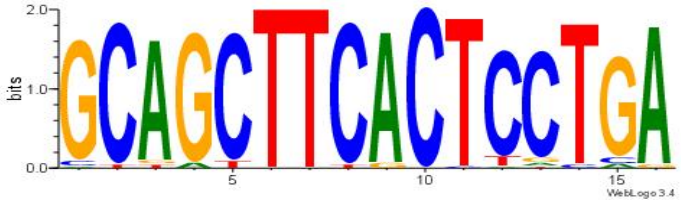

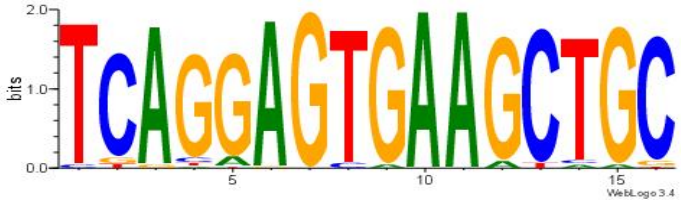

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0733684

Alignment:

```
GCAAAKGACATGATYTCATT
---------ATTCATTCATT
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

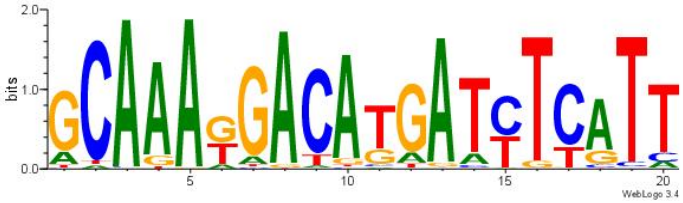

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

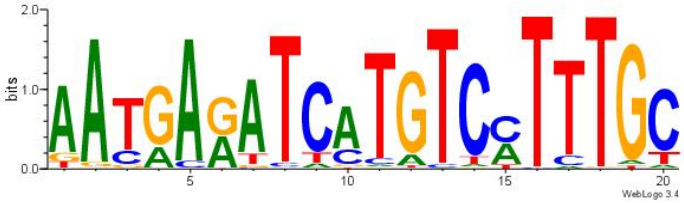

Dataset #:	1

Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0755975

Alignment:

```
AAGATGGCCGAAT
--AATGAATGAAT
```

Original motif Consensus sequence: AAGATGGCCGAAT

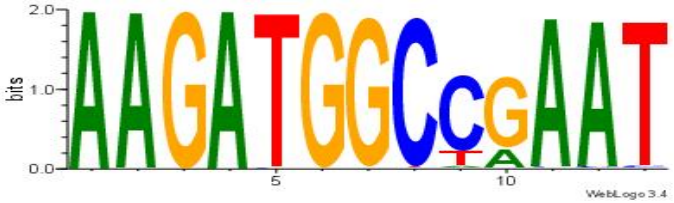

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

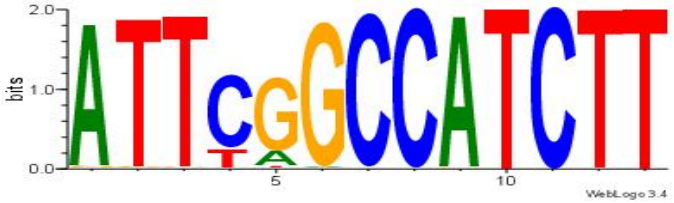

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0769954

Alignment:
ATAGGAATGCTTGTGATTTT
-AATGAATGAAT--------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

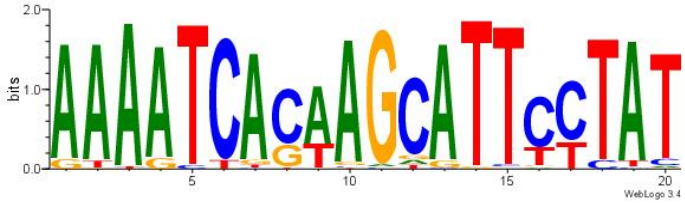

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

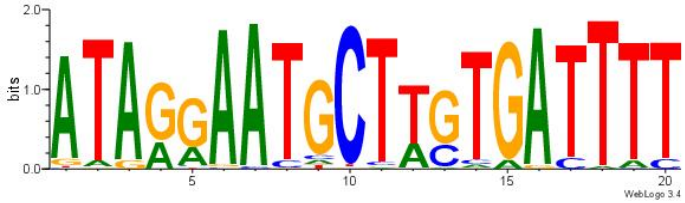

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0770637

Alignment:
KACATTGATTTTGTATC
---ATTCATTCATT---

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence:
KACATTGATTTTGTATC

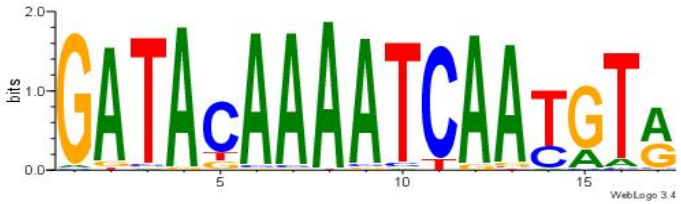

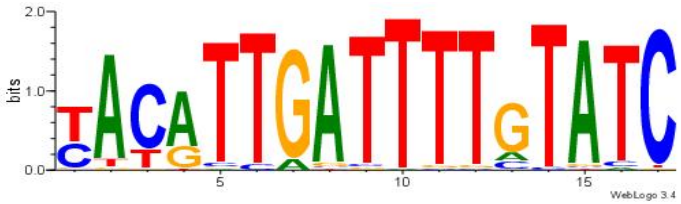

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0775803

Alignment:

```
ATGATTCCATTT
ATTCATTCATT-
```

Original motif Consensus sequence: AAATGGAATCAT

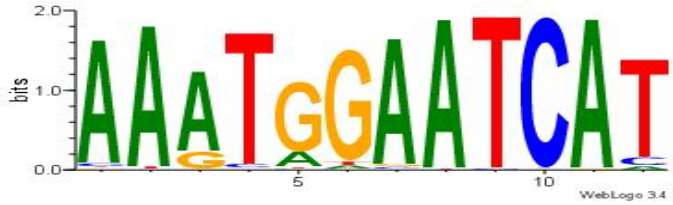

Reverse complement motif Consensus sequence: ATGATTCCATTT

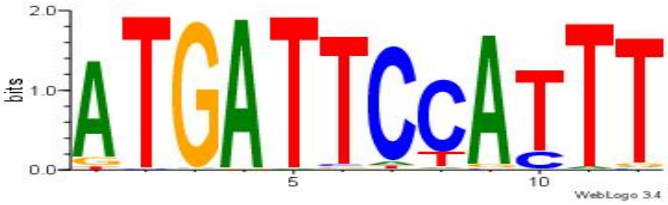

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0777492

Alignment:

```
TCCAAATGGGAGAAATTGGC
----AATGAATGAAT-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

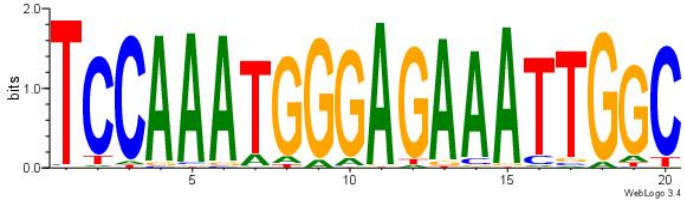

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

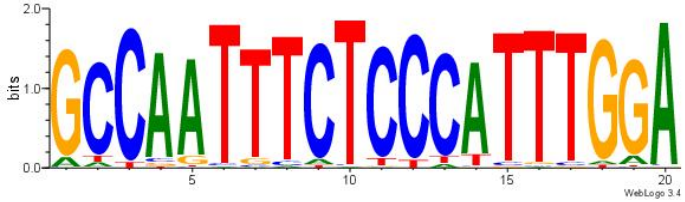

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0777789

Alignment:
AGTAGGTGCTCARTAAATRB
-------AATGAATGAAT--

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

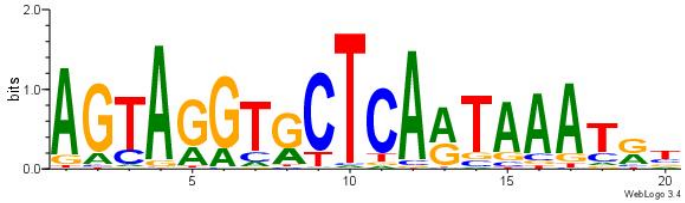

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

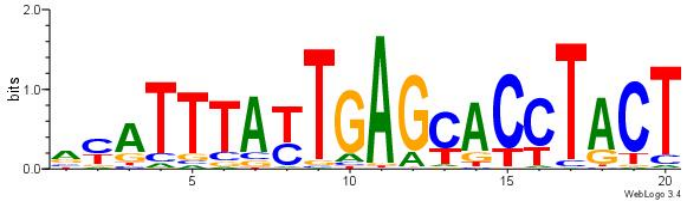

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0782253

Alignment:
CTGGCCCTCAATGGTTAAAC
---------AATGAATGAAT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

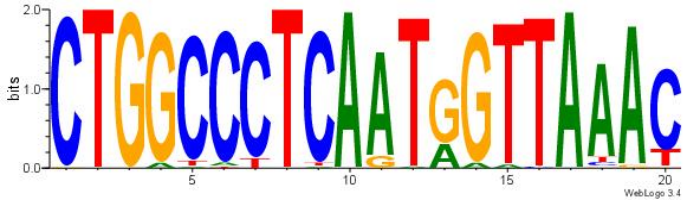

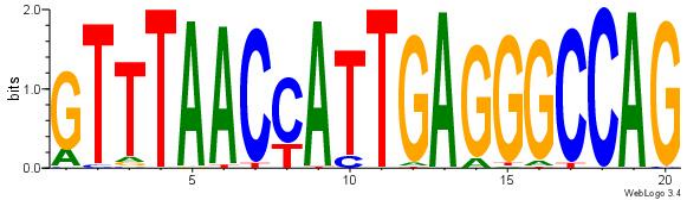

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0786536

Alignment:

```
ATTGGTGTATTTACAATCCC
ATTCATTCATT---------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

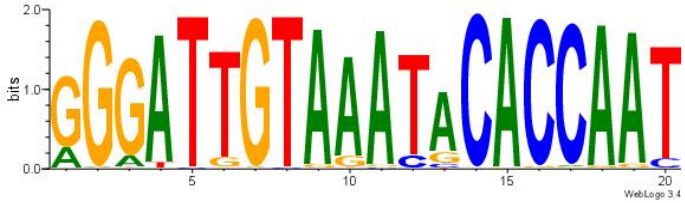

Dataset #: 1

Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0786668

Alignment:

```
ACTTTCAGGCATAACA
--ATTCATTCATT---
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

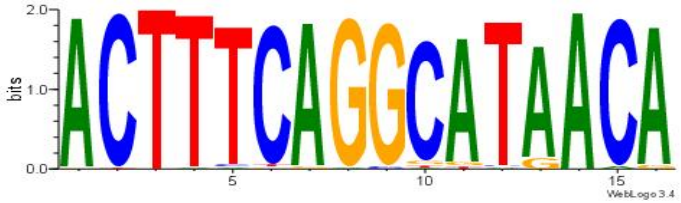

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

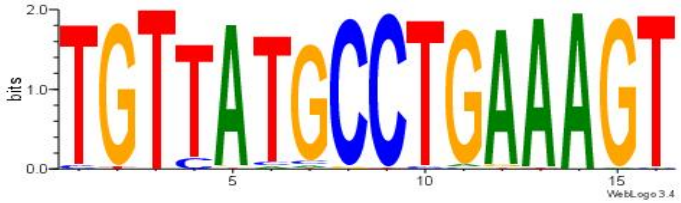

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0808364

Alignment:
WACAATCAGACCTTG
---ATTCATTCATT-

Original motif Consensus sequence: CAAGGTCTGATTGTW

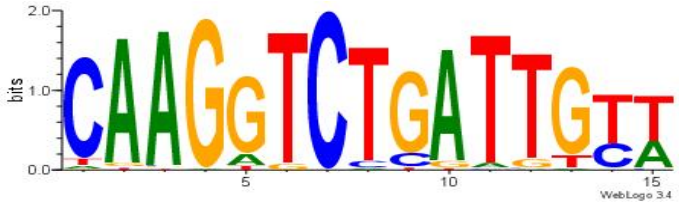

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0809475

Alignment:
AAYRGACTAATACA
AATGAATGAAT---

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

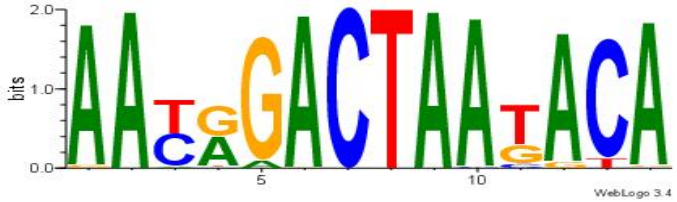

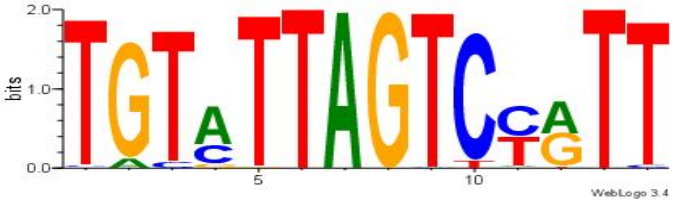

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0813319

Alignment:

```
AATGACCAATTGAGAGC
AATGAATGAAT------
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

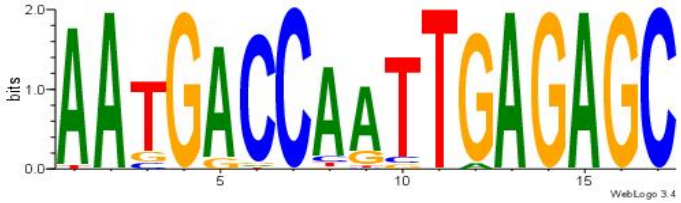

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

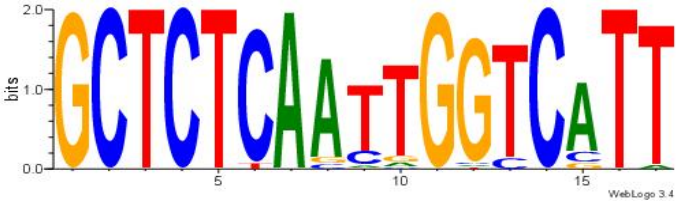

Dataset #: 1

Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0834469

Alignment:

```
CKAGTCAAAGAAA
--AATGAATGAAT
```

Original motif Consensus sequence: CKAGTCAAAGAAA

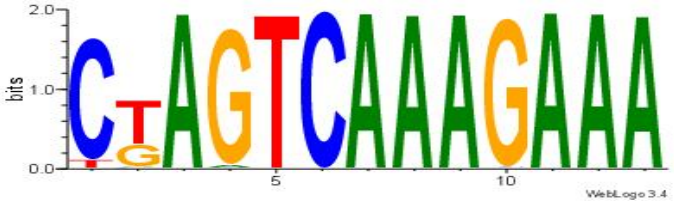

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

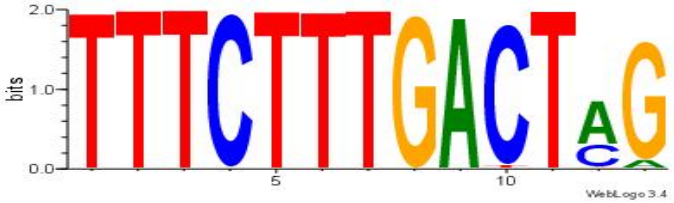

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0845927

Alignment:
ATGGCCTATGACYGSTTTG
------AATGAATGAAT--

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

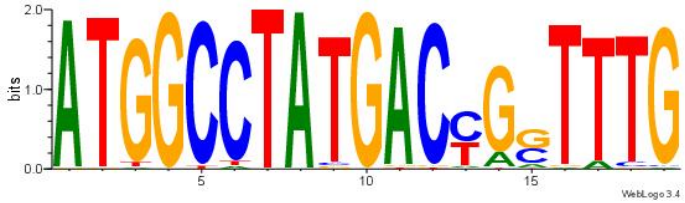

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

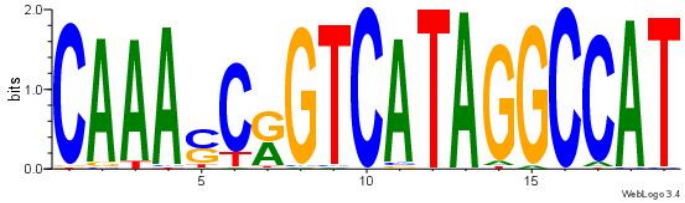

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.084845

Alignment:
AGTGAGAACATRYRRTRTTT
ATTCATTCATT---------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

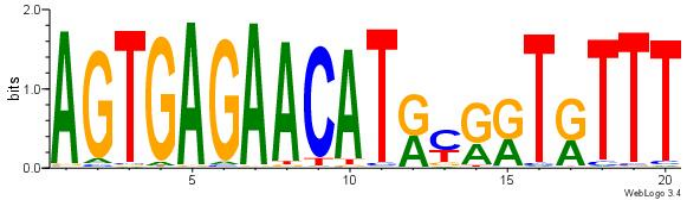

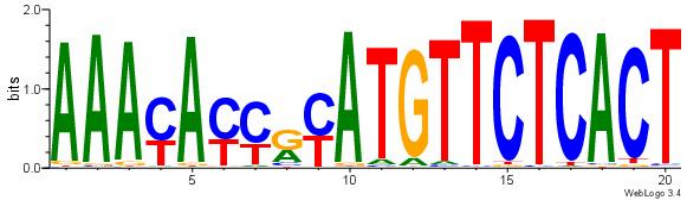

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0855946

Alignment:

```
TGGCTTCACCCAGTGGATCC
---ATTCATTCATT------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

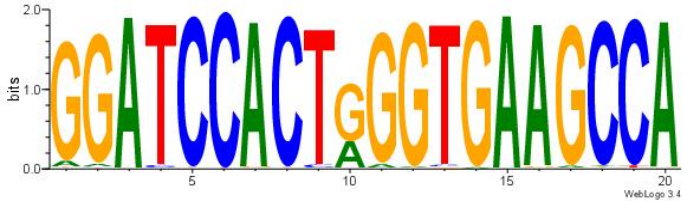

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

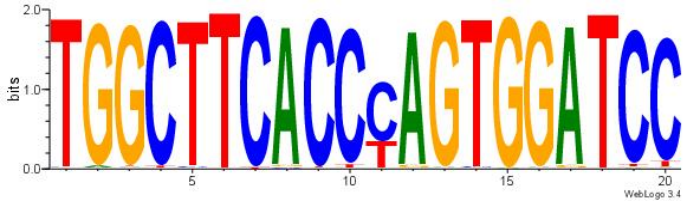

Dataset #:	1

Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0867654

Alignment:

```
TGATGGGTGCACCAAA
-AATGAATGAAT----
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

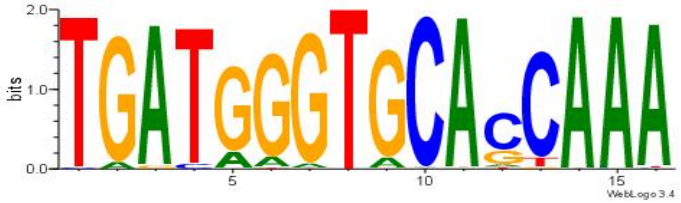

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

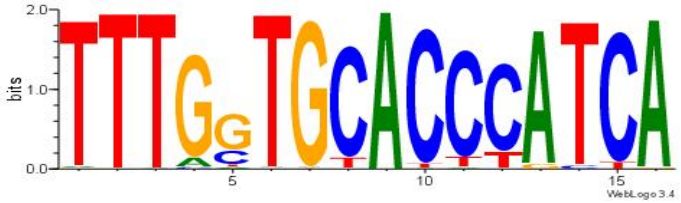

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0873636

Alignment:
AATAAATATTT
AATGAATGAAT

Original motif Consensus sequence: AAATATTTATT

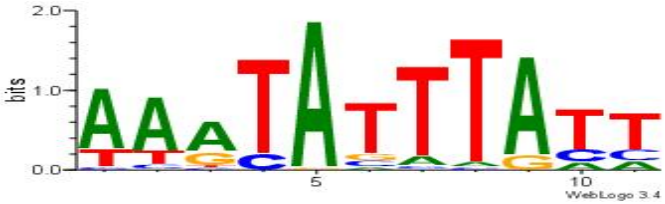

Reverse complement motif Consensus sequence: AATAAATATTT

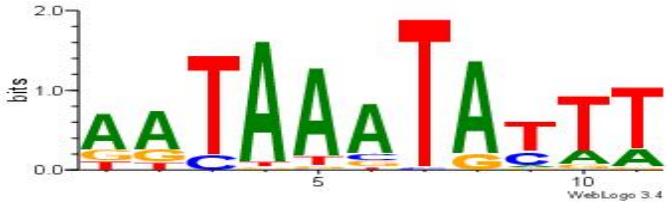

Dataset #: 1
Motif ID: 41
Motif name: Motif 41
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0887896

Alignment:
TTTTTTTMTTT
ATTCATTCATT

Original motif Consensus sequence: AAAYAAAAAAA

Reverse complement motif Consensus sequence: TTTTTTTMTTT

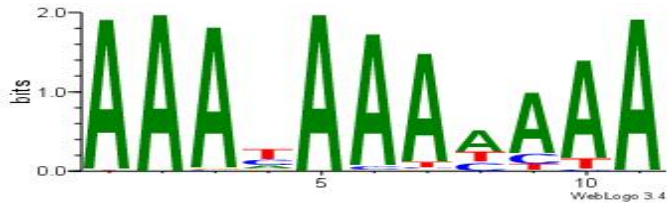

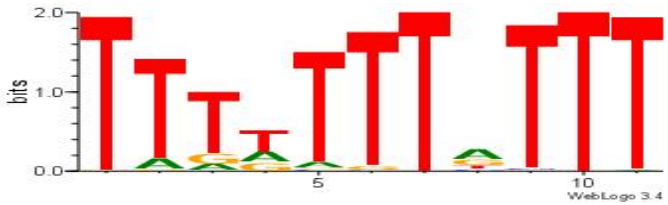

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0889401

Alignment:

```
ATGATCCAGCAATYCCACTH
---ATTCATTCATT------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

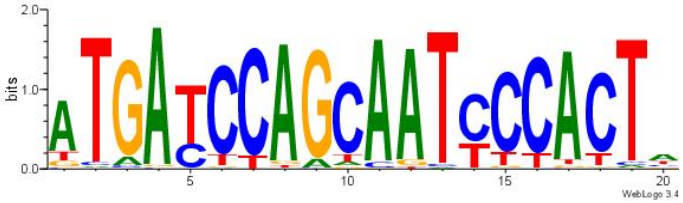

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

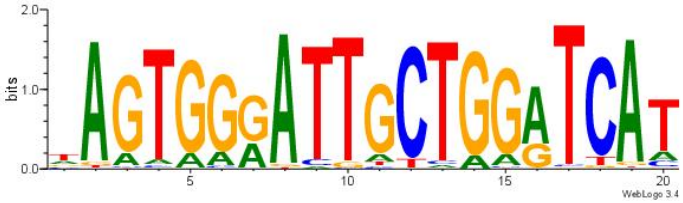

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897277

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-ATTCATTCATT--------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

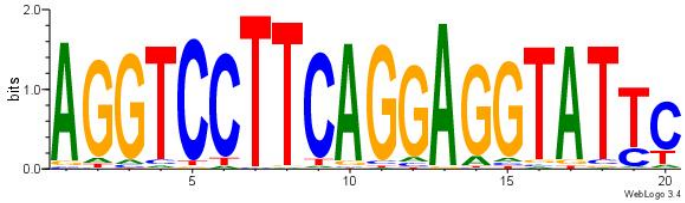

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

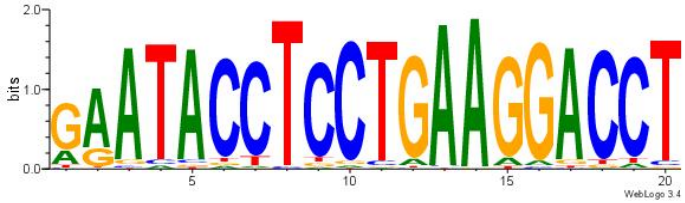

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0898882

Alignment:
CTGGTCAAGGAAA
--AATGAATGAAT

Original motif Consensus sequence: CTGGTCAAGGAAA

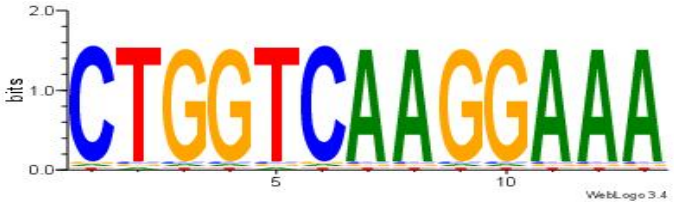

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

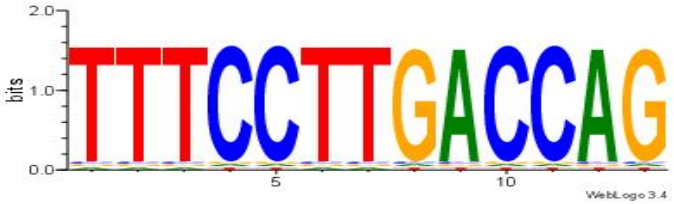

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.089905

Alignment:
AAATTAGGCCAATTAATAAC
------AATGAATGAAT---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

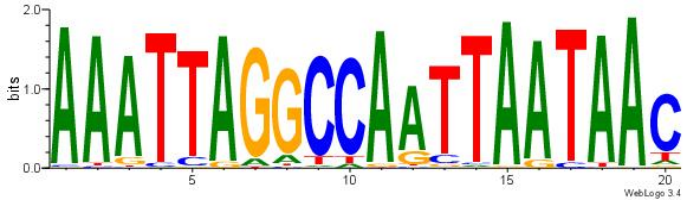

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0902281

Alignment:

```
CCATGATTGTRAGG
-AATGAATGAAT--
```

Original motif Consensus sequence: CCATGATTGTRAGG

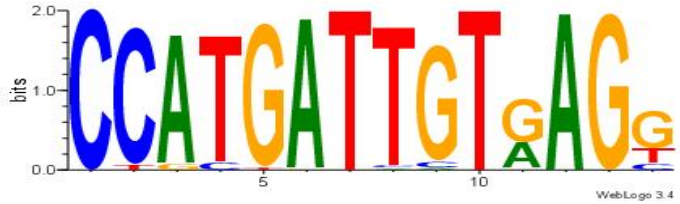

Reverse complement motif Consensus sequence: CCTMACAATCATG

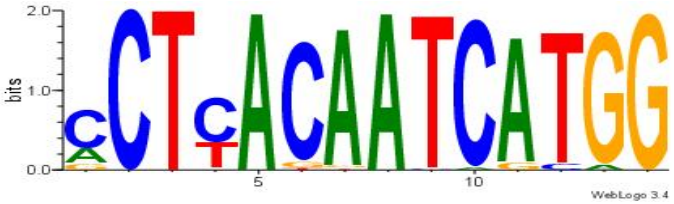

Dataset #:	1
Motif ID:	184

Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.090238

Alignment:

```
ATATTGATGATCCTGACC
-AATGAATGAAT------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

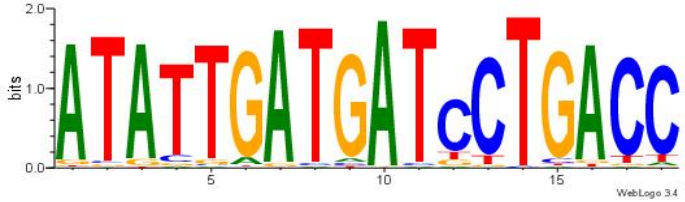

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

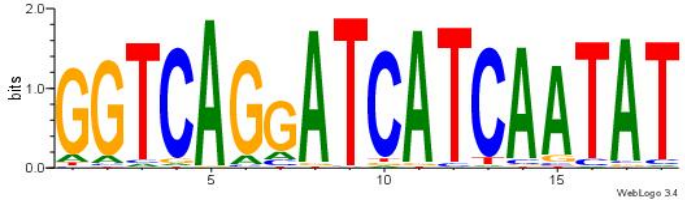

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0914852

Alignment:
ACCCAATWTGTAGTCTTTTA
-------ATTCATTCATT--

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

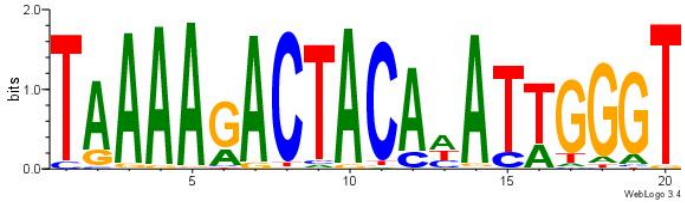

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

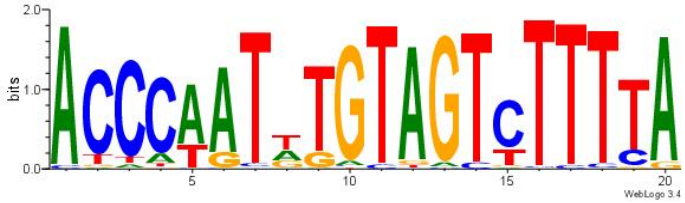

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0921411

Alignment:
AAGAGGTTTAATTGRCTCA
------ATTCATTCATT--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

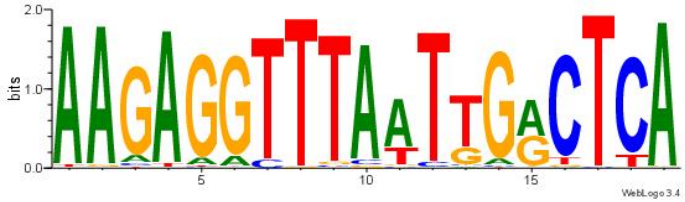

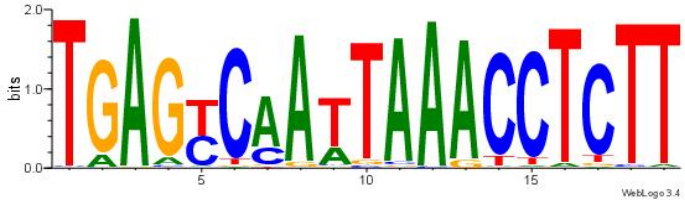

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0925507

Alignment:

```
AAGCTCGAACTGGGTGGAGC
--------AATGAATGAAT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

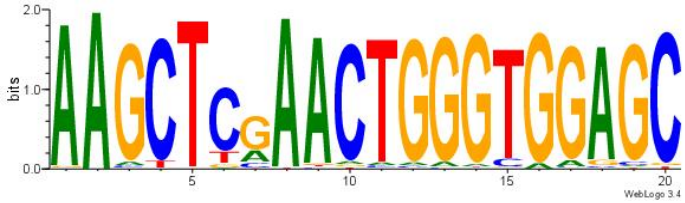

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

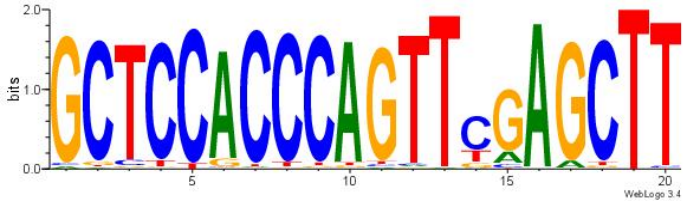

Dataset #: 1

Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0928243

Alignment:

```
AATTAAAAGACACAGACTG
AATGAATGAAT--------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

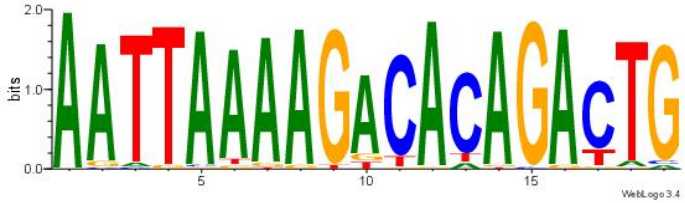

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

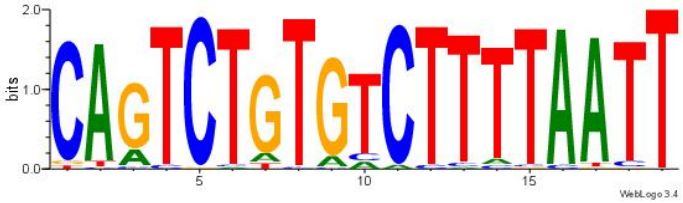

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0930979

Alignment:
TTTCTTTTCCTT
-ATTCATTCATT

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

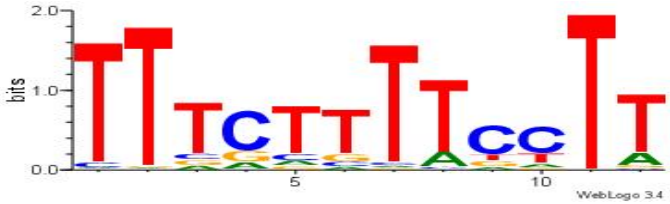

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.0933606

Alignment:
AATCAACCCTGGYRATCAAT
ATTCATTCATT---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

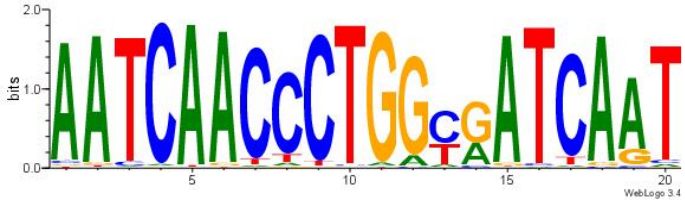

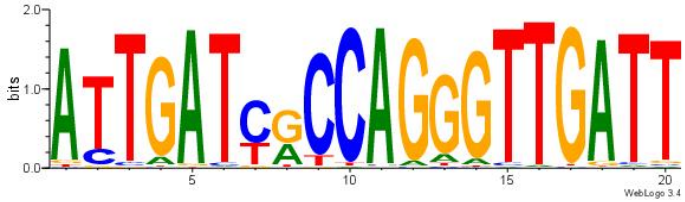

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0935019

Alignment:

```
GGGAGGGATATATTAGC
--AATGAATGAAT----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

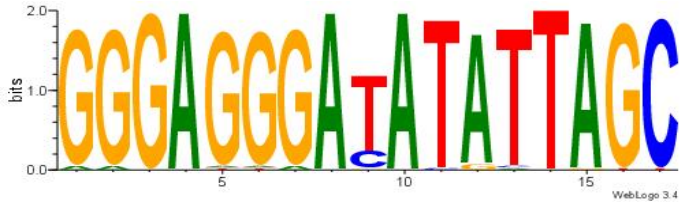

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

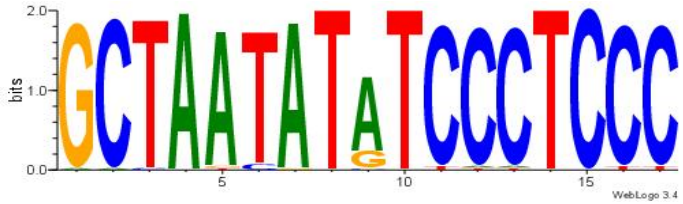

Dataset #: 1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.093531

Alignment:

```
GAGAACACATGGACA
---AATGAATGAAT-
```

Original motif Consensus sequence: GAGAACACATGGACA

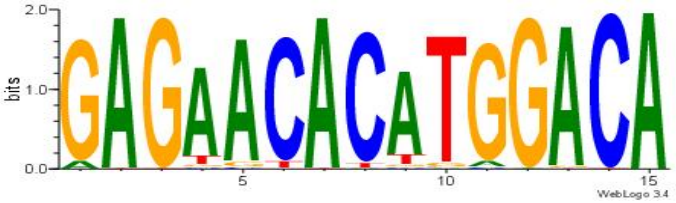

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

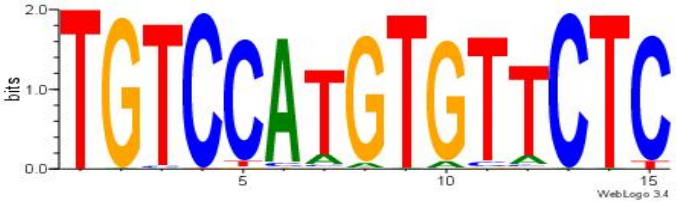

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0937054

Alignment:
GACATGGAGTCAAAGG
---ATTCATTCATT--

Original motif Consensus sequence: GACATGGAGTCAAAGG

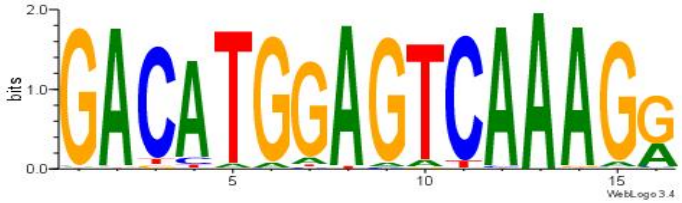

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

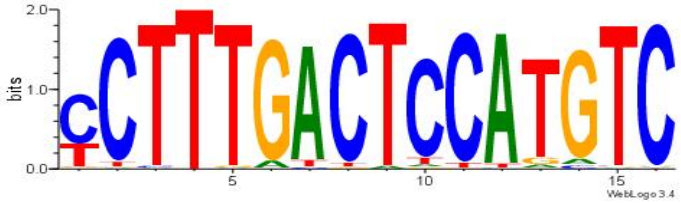

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0942734

Alignment:
GTCTCWAMAAAAAAWAMAAA
--------AATGAATGAAT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

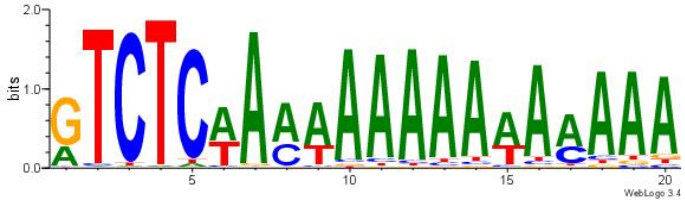

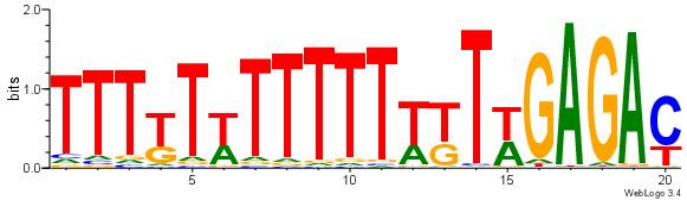

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0945991

Alignment:

```
TTTGTACCCATTA
-ATTCATTCATT-
```

Original motif Consensus sequence: TAATGGGTACAAA

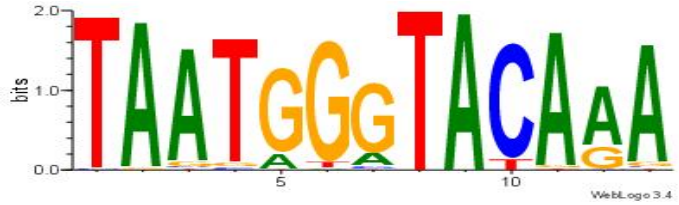

Reverse complement motif Consensus sequence: TTTGTACCCATTA

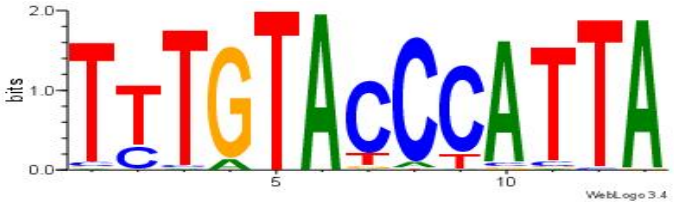

Dataset #:	1
Motif ID:	70

Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0948872

Alignment:

```
CTATTGTGAATARTGCTGC
----AATGAATGAAT----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

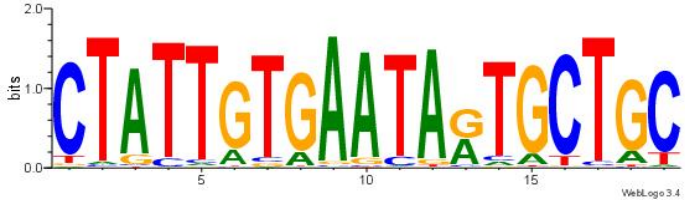

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

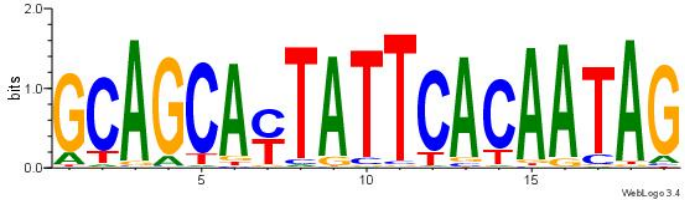

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.095249

Alignment:
AAGTCCAAGATCAAGGTGYY
--------AATGAATGAAT-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

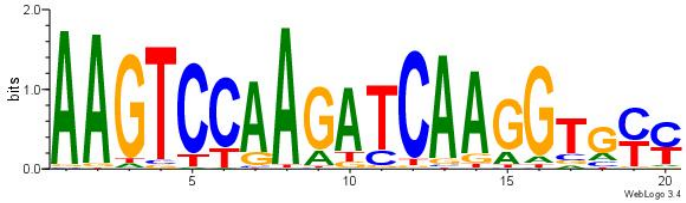

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

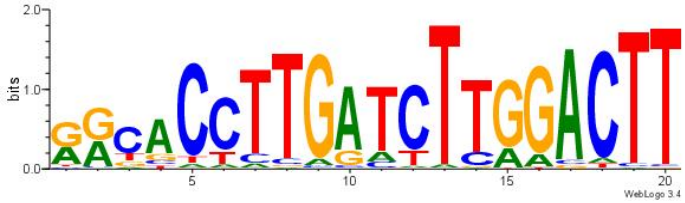

Dataset #: 1 Motif ID: 80 Motif name: Motif 80

Original motif Consensus sequence: WTTTTWAAAAW

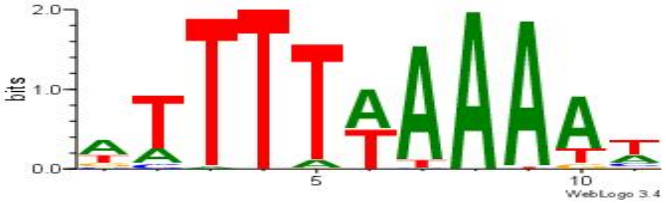

Reverse complement motif Consensus sequence: WTTTTWAAAAW

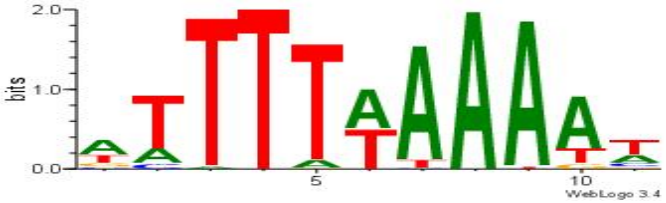

Best Matches for Motif ID 80 (Highest to Lowest)

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

Position number: 1
Number of overlap: 11
Similarity score: 0.0536456

Alignment:
TAGTTTTTAACAA
--WTTTTWAAAAW

Original motif Consensus sequence: TAGTTTTTAACAA

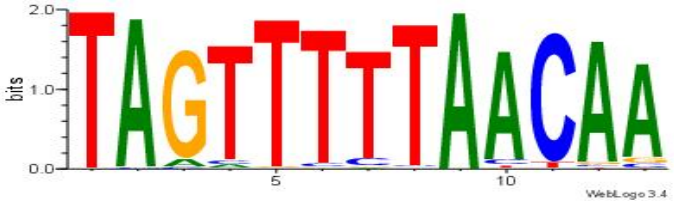

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

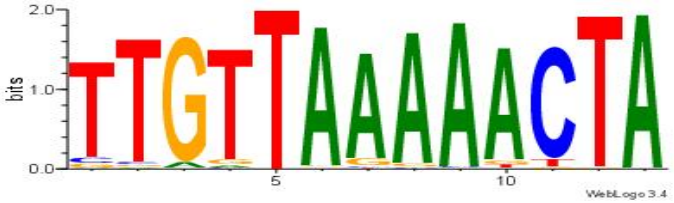

Dataset #: 1
Motif ID: 81
Motif name: Motif 81
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0558466

Alignment:
ATTTTACAGATG
WTTTTWAAAAW-

Original motif Consensus sequence: CATCTGTAAAAT

Reverse complement motif Consensus sequence: ATTTTACAGATG

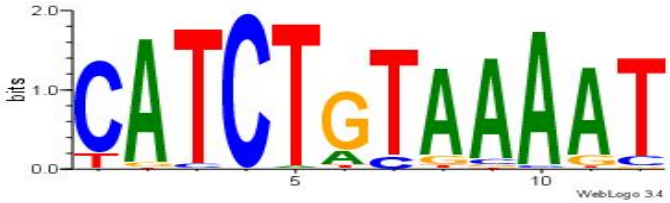

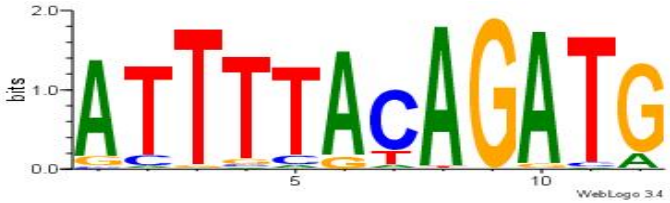

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0629985

Alignment:

```
GCAGCAMTATTCACAATAG
------WTTTTWAAAAW--
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

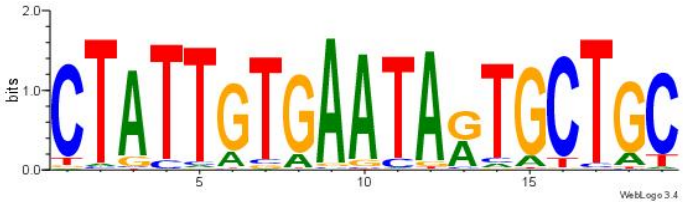

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

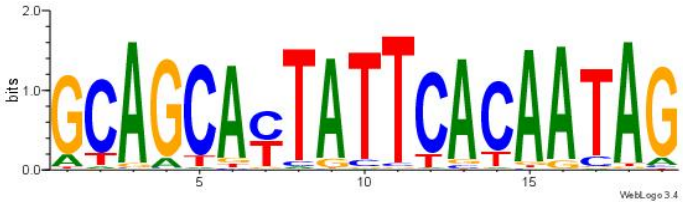

Dataset #:	1

Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0640096

Alignment:

```
AGTTCTTAAAGATGGT
--WTTTTWAAAAW---
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

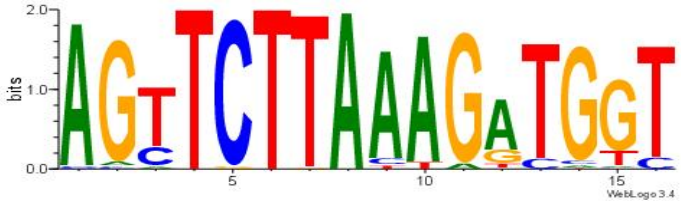

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

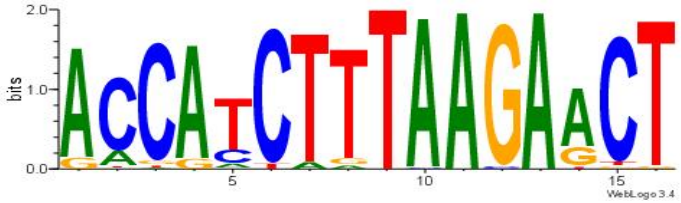

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0694174

Alignment:
GCCGTTTKTTAAGCCCGTY
---WTTTTWAAAAW-----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

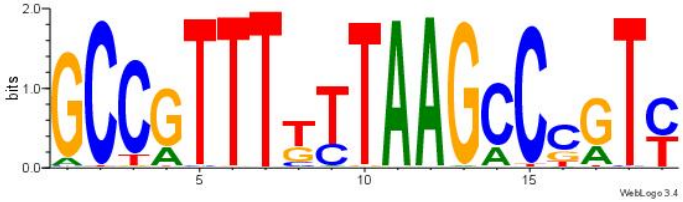

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

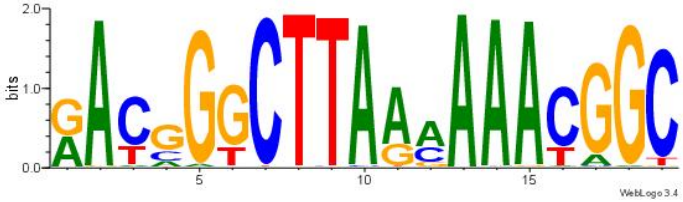

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0699418

Alignment:
AGGCTGTTTTACAGTTAAC
----WTTTTWAAAAW----

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

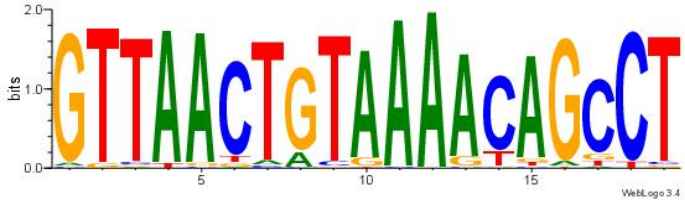

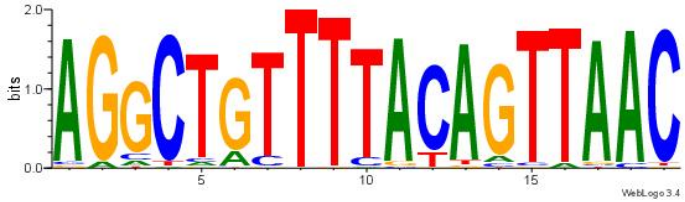

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0727592

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
WTTTTWAAAAW---------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

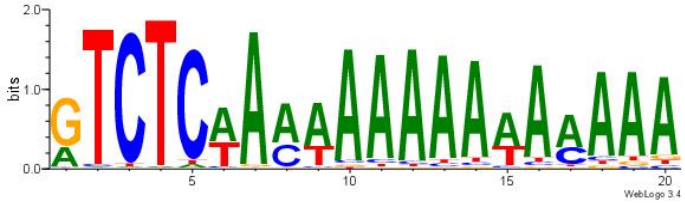

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

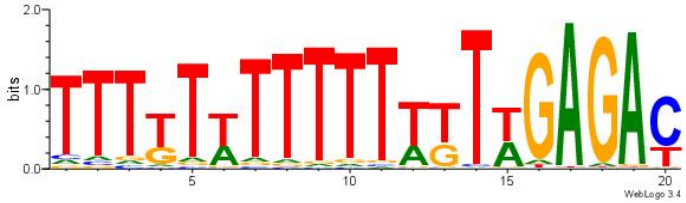

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0745606

Alignment:

```
GGGATTGTAAATACACCAAT
---WTTTTWAAAAW------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

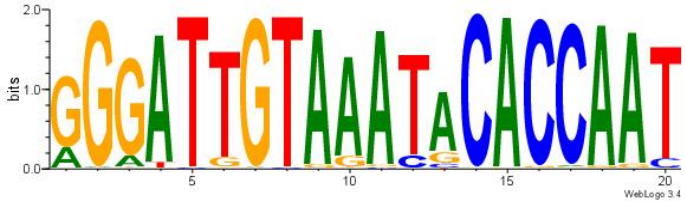

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0766615

Alignment:
AAATCTTAAAGCTC
--WTTTTWAAAAW-

Original motif Consensus sequence: AAATCTTAAAGCTC

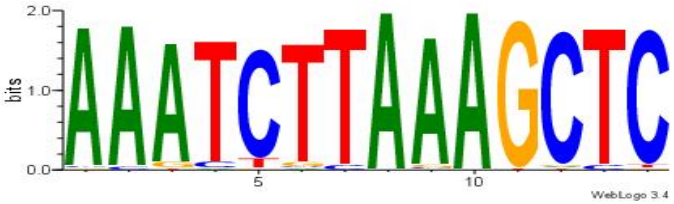

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

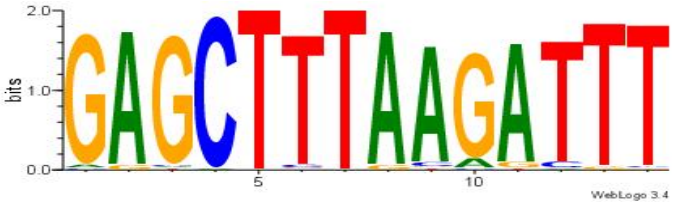

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0775095

Alignment:
AATTAAAAGACACAGACTG
WTTTTWAAAAW--------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

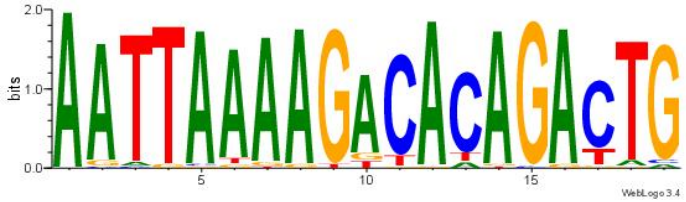

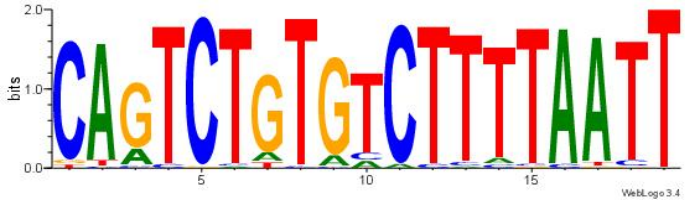

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0779721

Alignment:

```
GACTTCAAGAATGAAGCCG
-WTTTTWAAAAW-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

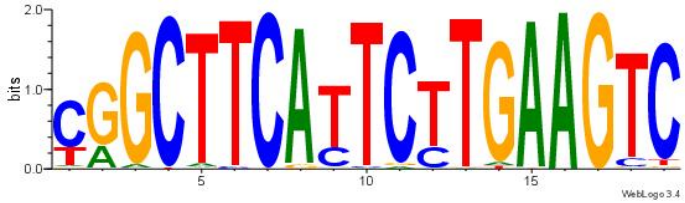

Dataset #: 1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0783867

Alignment:

```
CTCATTTAATCCTCACAAC
--------WTTTTWAAAAW
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

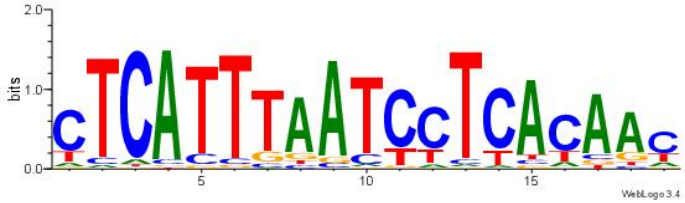

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

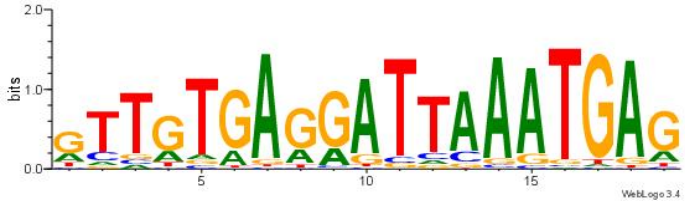

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0796748

Alignment:
AGCAGYTTGGAAACACT
----WTTTTWAAAAW--

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

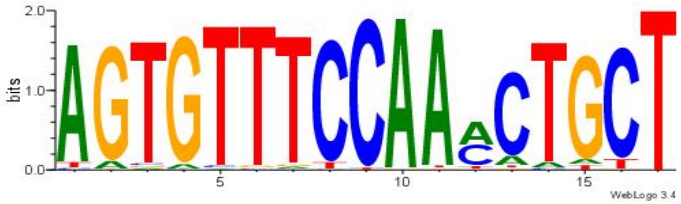

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

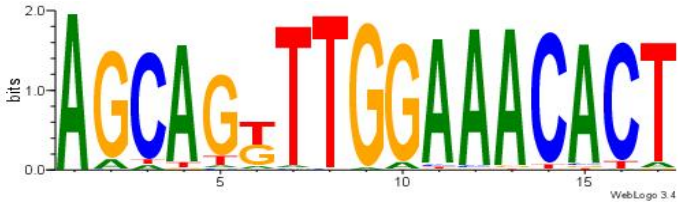

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.080123

Alignment:
ATCTCASAAATCACCACTA
WTTTTWAAAAW--------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

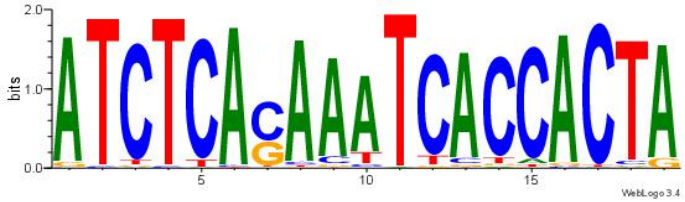

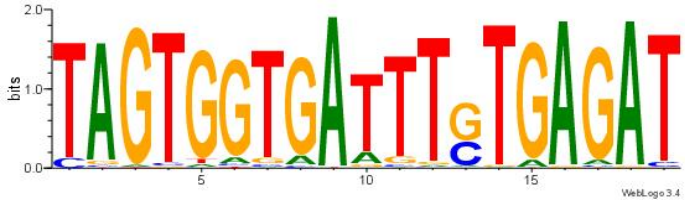

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0815271

Alignment:

```
TWTACCTATGTAACAAACCT
------WTTTTWAAAAW---
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

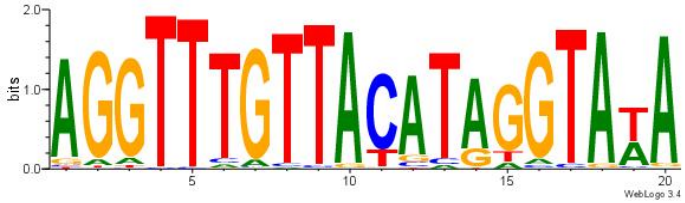

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

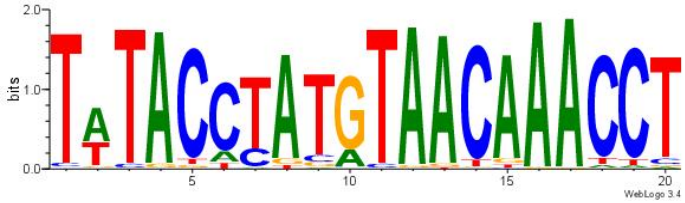

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0818047

Alignment:

```
CCCATGCAAGTCYRAAATCC
-------WTTTTWAAAAW--
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

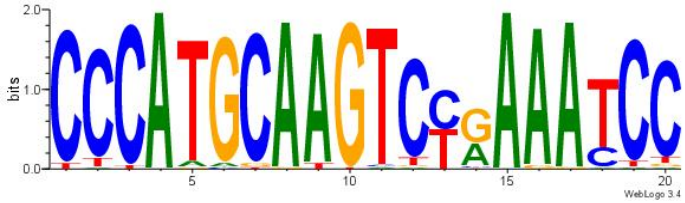

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

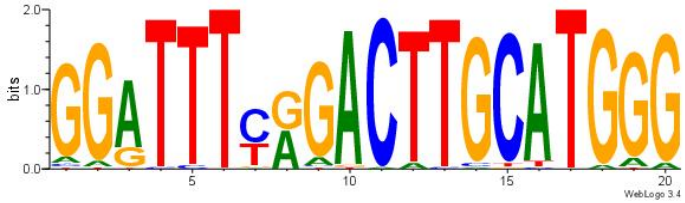

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.082829

Alignment:
CCCAAATCCTATAAAA
-----WTTTTWAAAAW

Original motif Consensus sequence: CCCAAATCCTATAAAA

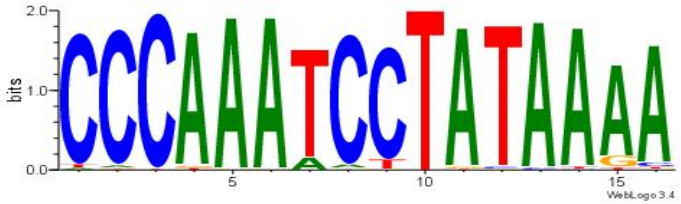

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

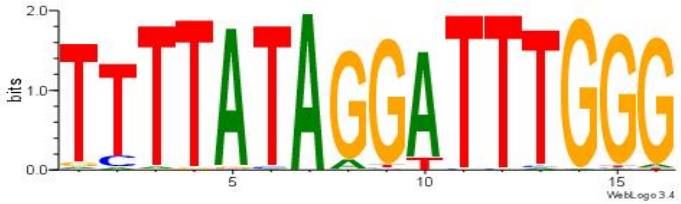

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0829592

Alignment:
CMCAGTTCACAATAGGGTT
--WTTTTWAAAAW------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

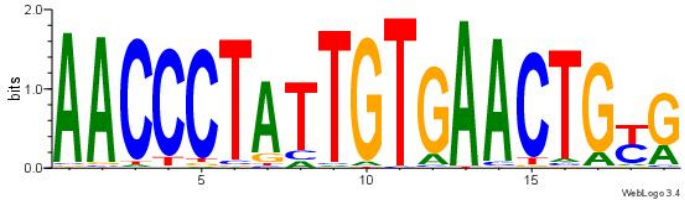

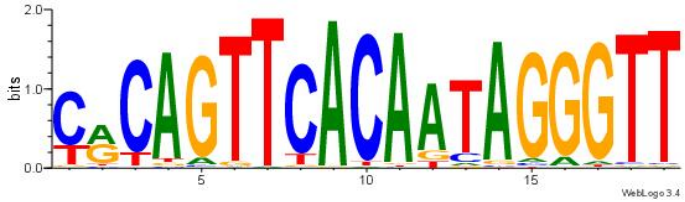

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0847086

Alignment:

```
TAATTTTATGTGTCAACTTG
-------WTTTTWAAAAW--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

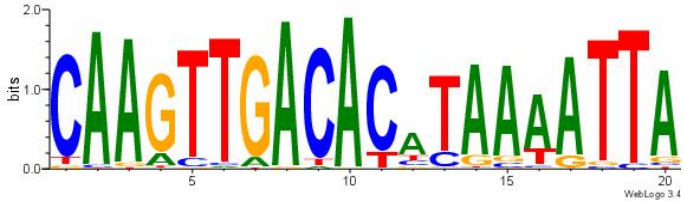

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

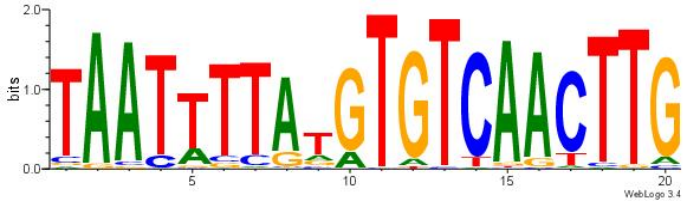

Dataset #:	1

Motif ID:	130
Motif name:	Motif 130
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0848723

Alignment:

```
ATTATTATYAT
WTTTTWAAAAW
```

Original motif Consensus sequence: ATTATTATYAT

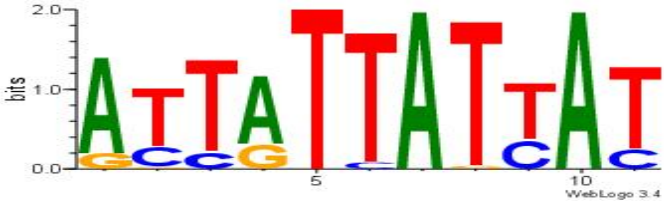

Reverse complement motif Consensus sequence: ATMATAATAAT

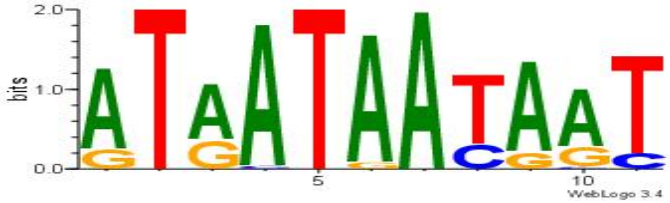

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0851166

Alignment:
GCAWSTGCAAAGGCCCT
--WTTTTWAAAAW----

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

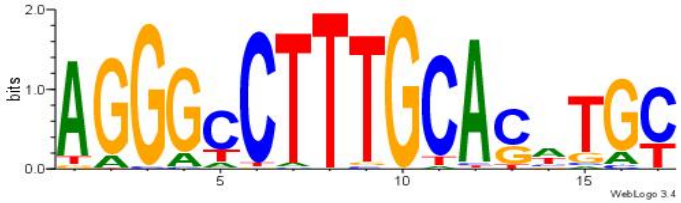

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

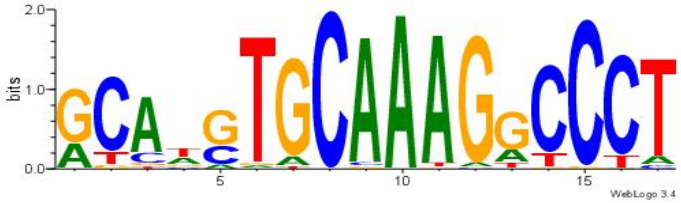

Dataset #:	1
Motif ID:	300
Motif name:	Motif 300
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.085471

Alignment:
CATTTTACAGA
WTTTTWAAAAW

Original motif Consensus sequence: CATTTTACAGA

Reverse complement motif Consensus sequence: TCTGTAAAATG

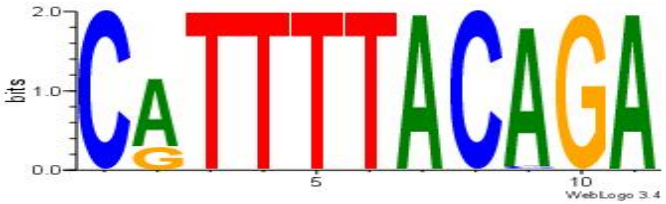

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0879492

Alignment:

```
CCTAGATTTCAGARGATGT
----WTTTTWAAAAW----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

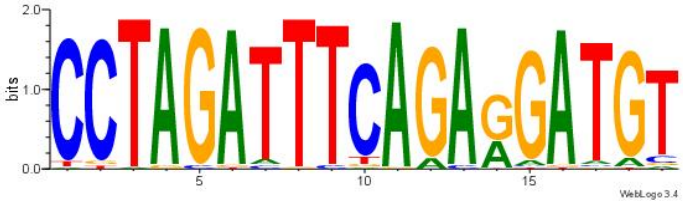

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

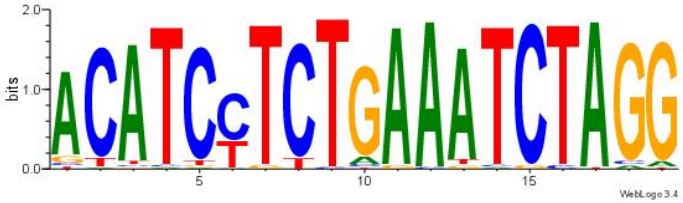

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0892293

Alignment:

```
ACCTGGAAAATCGGGTCACT
WTTTTWAAAAW---------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

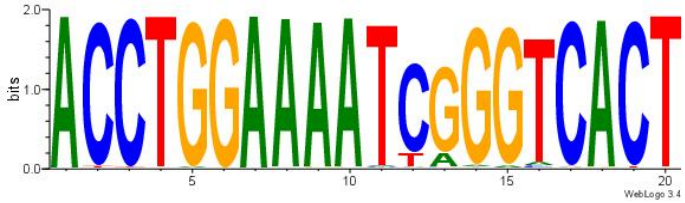

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

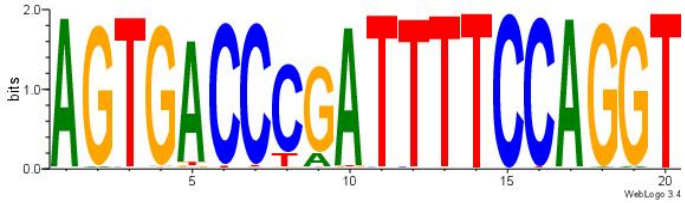

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0908301

Alignment:
AAGTCCAAGATCAAGGTGYY
WTTTTWAAAAW---------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

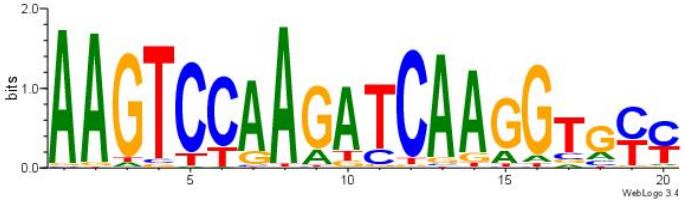

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

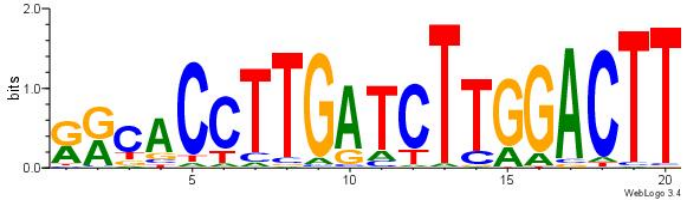

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.0909224

Alignment:
GTTATTAATTGGCCTAATTT
WTTTTWAAAAW---------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

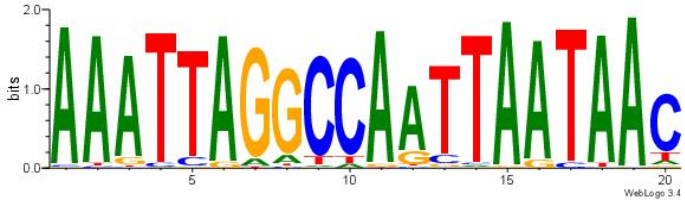

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0913059

Alignment:

```
AGTAGGTGCTCARTAAATRB
-------WTTTTWAAAAW--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

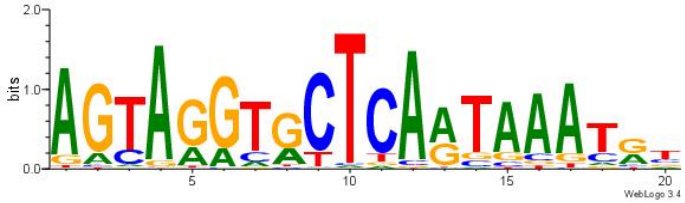

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

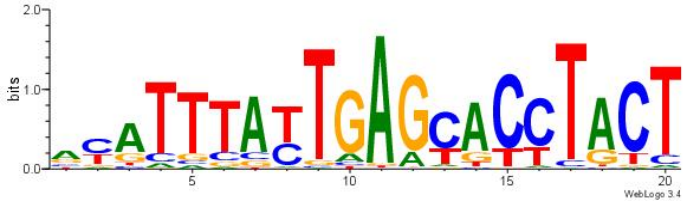

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0916641

Alignment:

```
GACAGGAGATTAACACTGAG
------WTTTTWAAAAW---
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

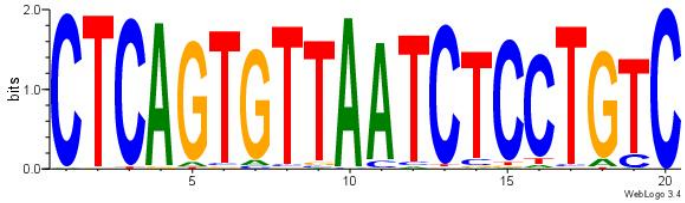

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

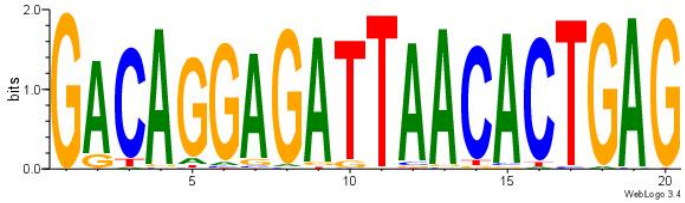

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.093137

Alignment:
GTTTAACCATTGAGGGCCAG
WTTTTWAAAAW---------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

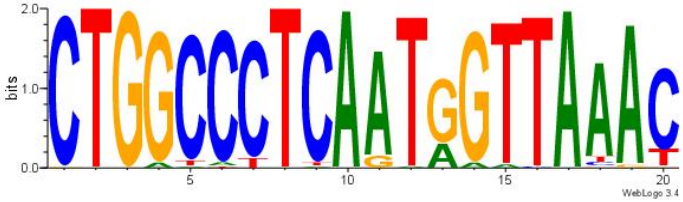

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

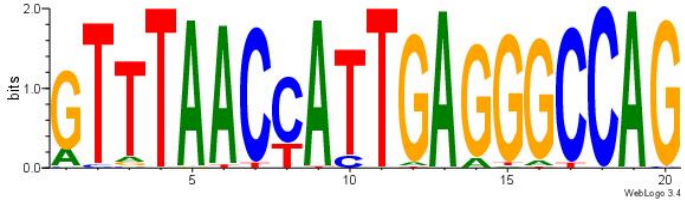

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0941042

Alignment:
TCCTATGAGAATCTAATG
-WTTTTWAAAAW------

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

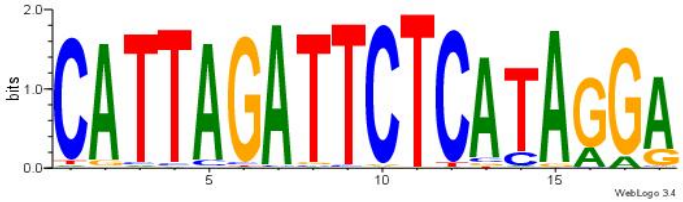

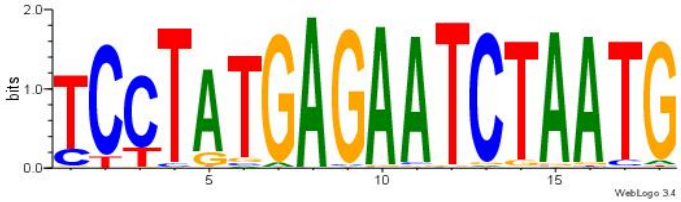

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0942572

Alignment:

```
CAMTTAGCATAATG
--WTTTTWAAAAW-
```

Original motif Consensus sequence: CATTATGCTAARTG

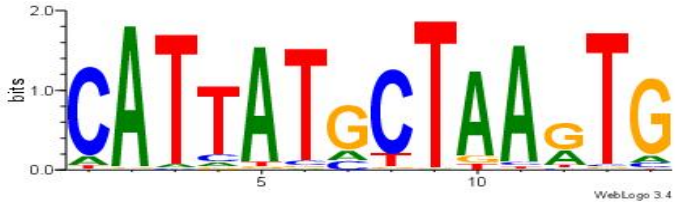

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

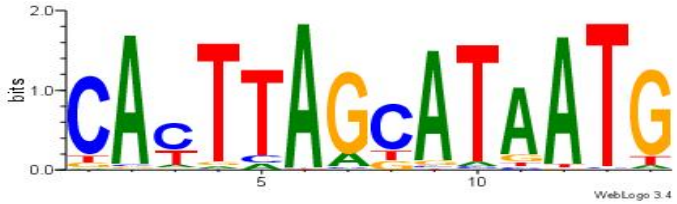

Dataset #:	1
Motif ID:	184

Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0950862

Alignment:

```
ATATTGATGATCCTGACC
WTTTTWAAAAW-------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

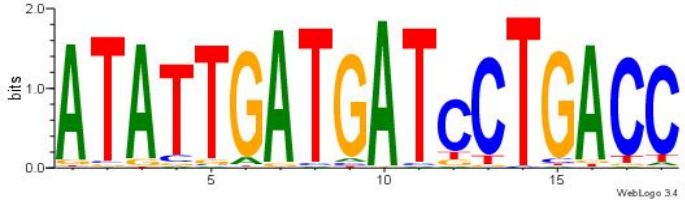

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

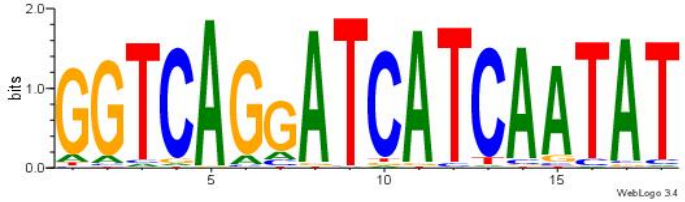

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0955019

Alignment:
TATTTACAGCTGCT
WTTTTWAAAAW---

Original motif Consensus sequence: AGCAGCTGTAAATA

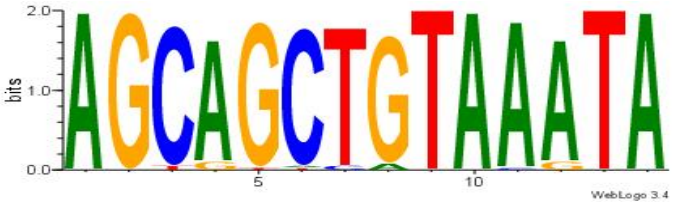

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

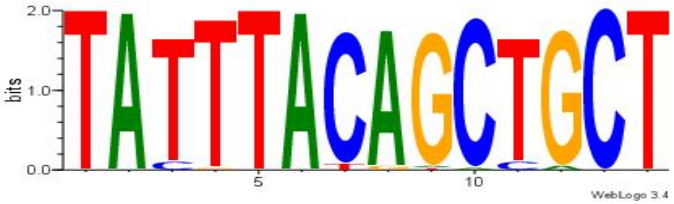

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0958914

Alignment:
GGTTTTCCATTCCTGAG
WTTTTWAAAAW------

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

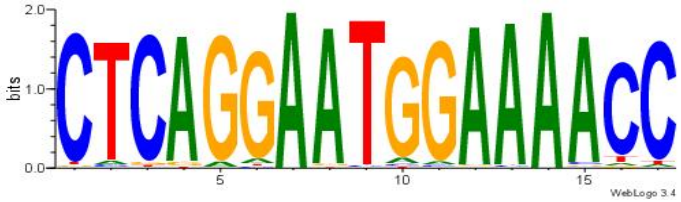

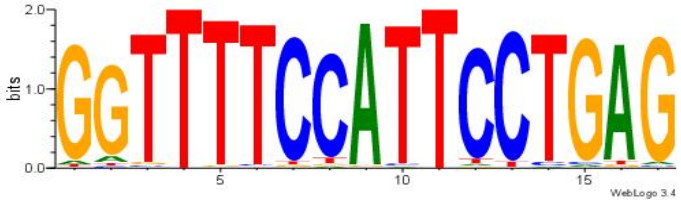

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0967167

Alignment:

```
ATGTTGTAGCATGT
-WTTTTWAAAAW--
```

Original motif Consensus sequence: ACATGCTACAACAT

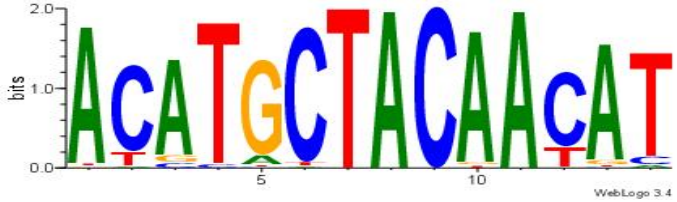

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

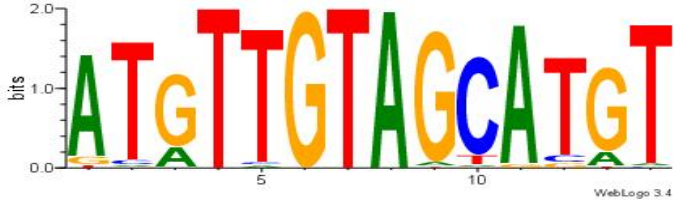

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0968333

Alignment:

```
GCCAATTTCTCCCATTTGGA
----WTTTTWAAAAW-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

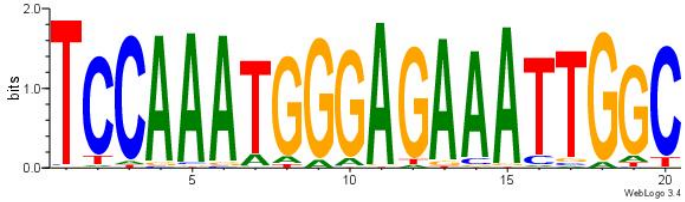

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

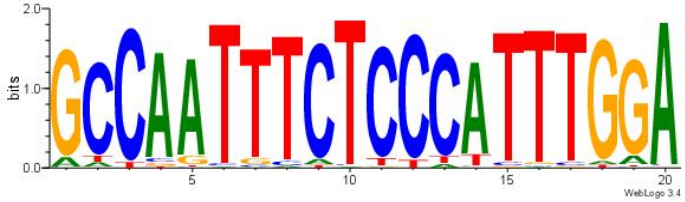

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0968572

Alignment:
GGGTTTCACCAT
-WTTTTWAAAAW

Original motif Consensus sequence: ATGGTGAAACCC

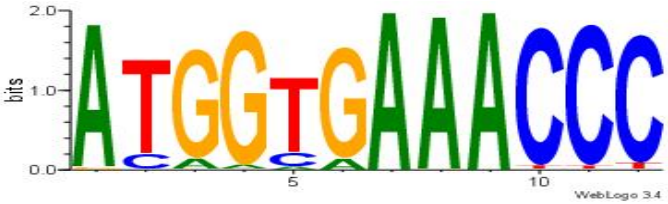

Reverse complement motif Consensus sequence: GGGTTTCACCAT

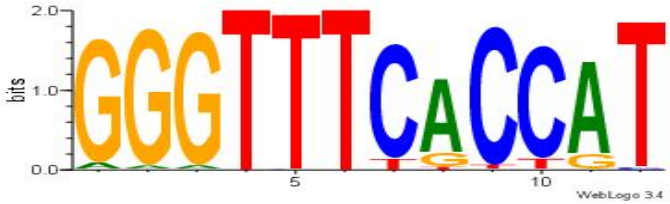

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0973187

Alignment:
TYTGTCMTTTTGTGACTGGC
------WTTTTWAAAAW---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

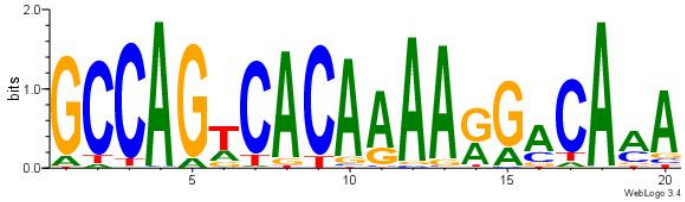

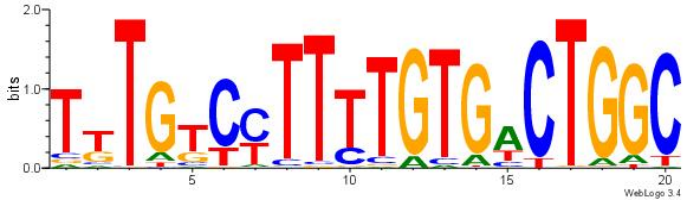

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0977902

Alignment:

```
CAAAGTCTTAACTCATT
---WTTTTWAAAAW---
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

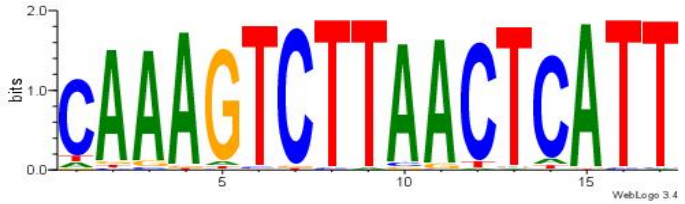

Dataset #:	1

Motif ID:	364
Motif name:	Motif 364
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0979362

Alignment:

```
GGATTTGAACY
WTTTTWAAAAW
```

Original motif Consensus sequence: GGATTTGAACY

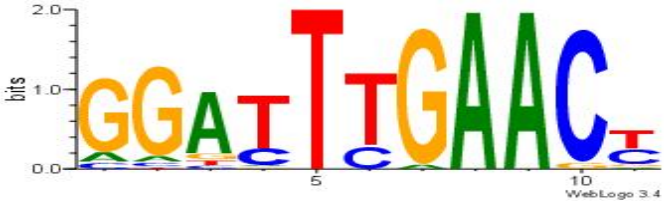

Reverse complement motif Consensus sequence: MGTTCAAATCC

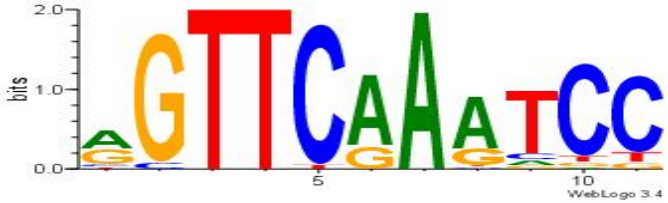

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0985472

Alignment:
AGTTGTAATTGGGAGACTT
WTTTTWAAAAW--------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

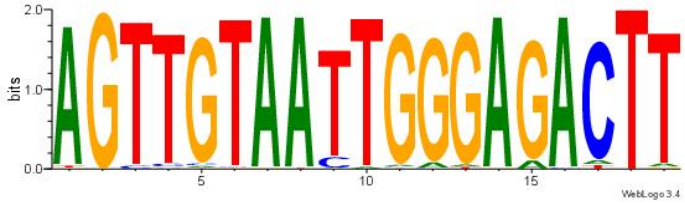

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

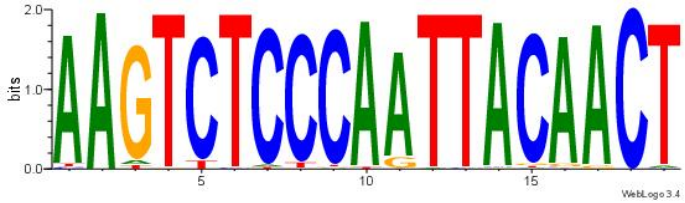

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0988226

Alignment:
GTCTTTATCAGC
-WTTTTWAAAAW

Original motif Consensus sequence: GCTGATAAAGAC

Reverse complement motif Consensus sequence: GTCTTTATCAGC

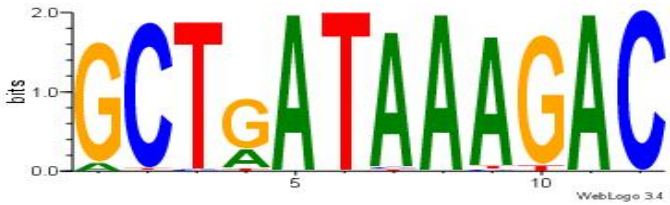

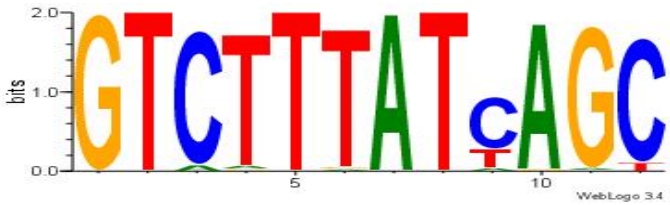

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0989387

Alignment:

```
TGCCCAGTCTGGAAAGTG
-WTTTTWAAAAW------
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

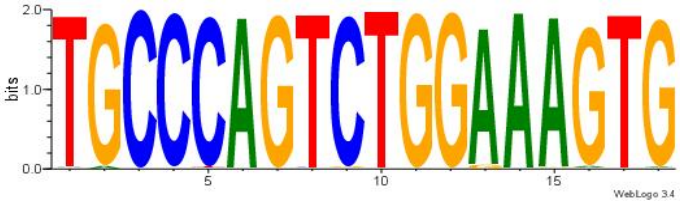

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

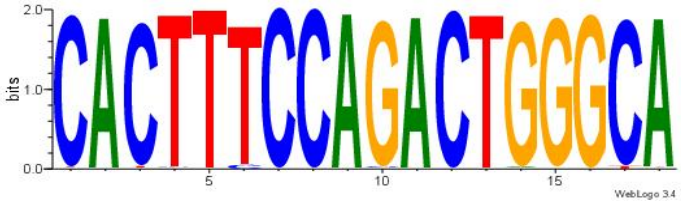

Dataset #: 1

Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0996961

Alignment:

```
CTGCTATAACAAA
--WTTTTWAAAAW
```

Original motif Consensus sequence: CTGCTATAACAAA

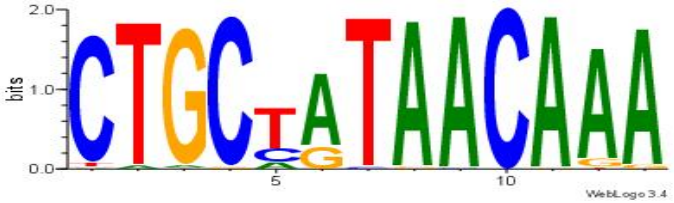

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.100284

Alignment:
KACATTGATTTTGTATC
------WTTTTWAAAAW

Original motif Consensus sequence: GATACAAAATCAATGTR

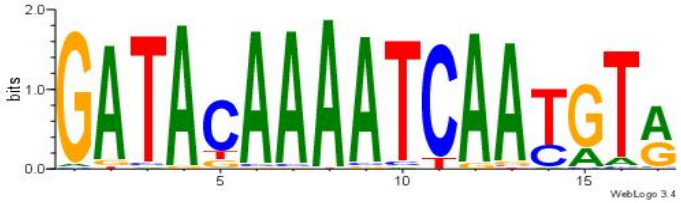

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

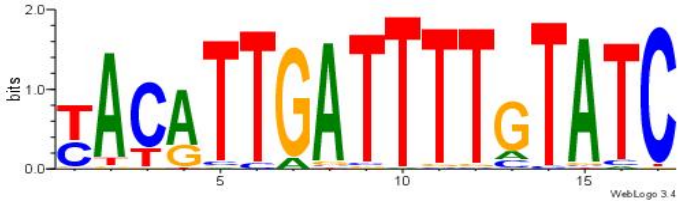

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.100435

Alignment:
TGAGKCAATTAAACCTCTT
-----WTTTTWAAAAW---

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

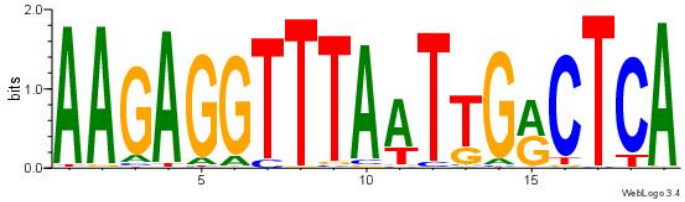

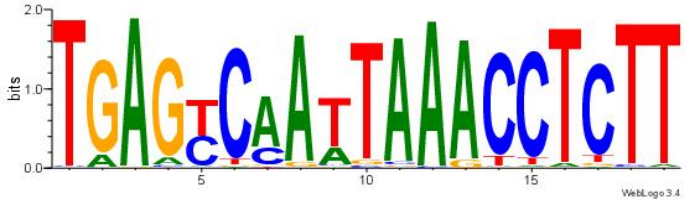

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.100503

Alignment:

```
GTKTMTATMTACCACATTTT
WTTTTWAAAAW---------
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

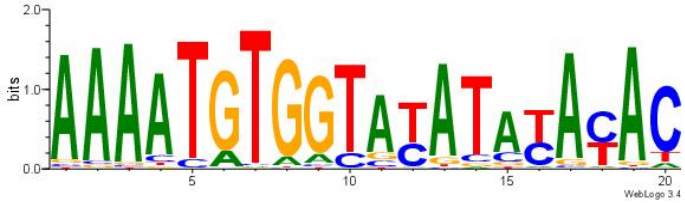

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

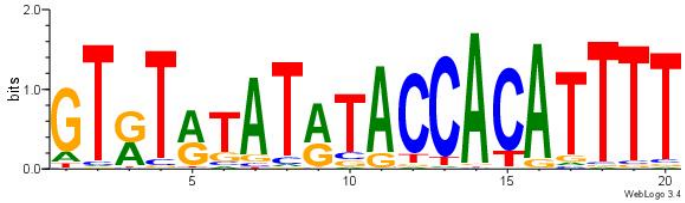

Dataset #: 1

Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.101388

Alignment:

```
TTTGTACCCATTA
WTTTTWAAAAW--
```

Original motif Consensus sequence: TAATGGGTACAAA

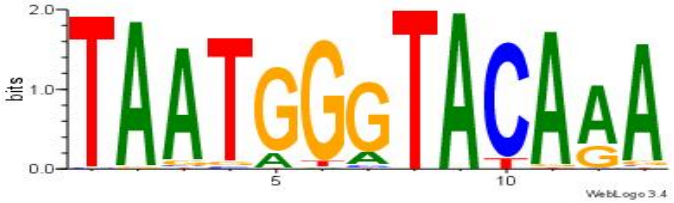

Reverse complement motif Consensus sequence: TTTGTACCCATTA

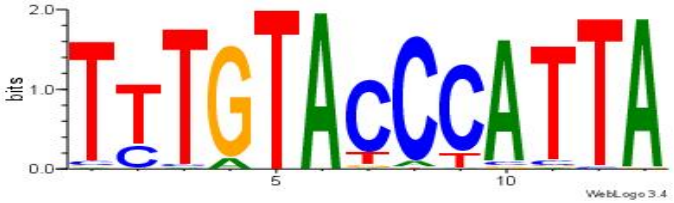

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.101493

Alignment:
KCAGTGTACACTGM
--WTTTTWAAAAW-

Original motif Consensus sequence: RCAGTGTACACTGY

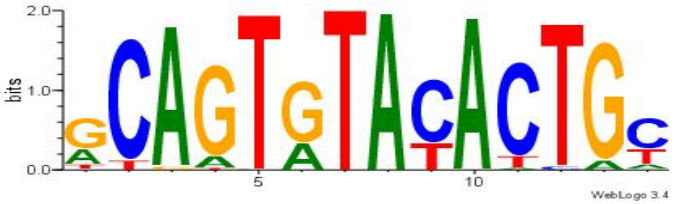

Reverse complement motif Consensus sequence: KCAGTGTACACTG

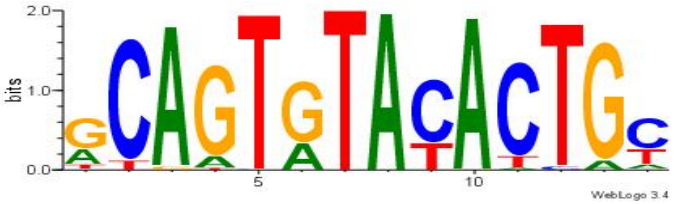

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.101609

Alignment:
CACTTCCTAGATGG
-WTTTTWAAAAW--

Original motif Consensus sequence: CACTTCCTAGATGG

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

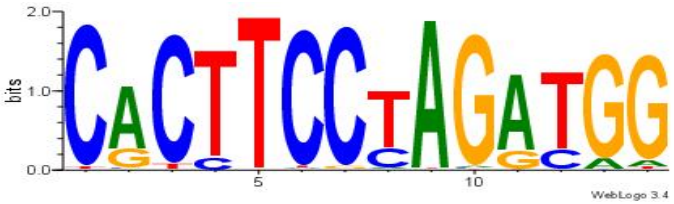

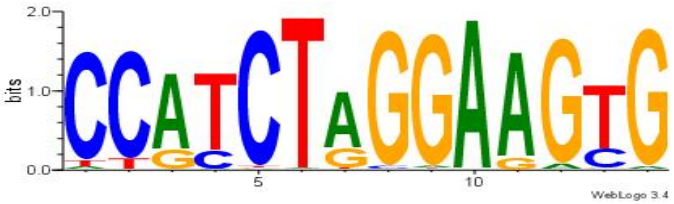

Dataset #: 1 Motif ID: 81 Motif name: Motif 81

Original motif Consensus sequence: CATCTGTAAAAT

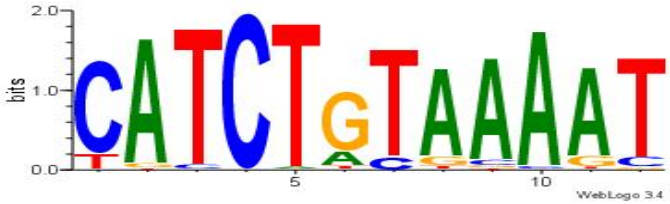

Reverse complement motif Consensus sequence: ATTTTACAGATG

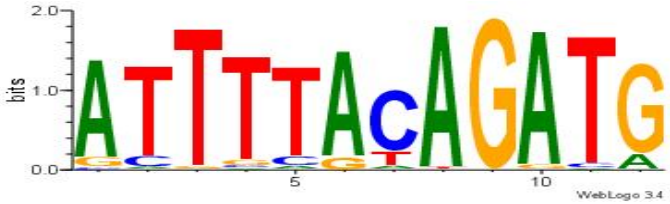

Best Matches for Motif ID 81 (Highest to Lowest)

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0547757

Alignment:

```
GTTAACTGTAAAACAGCCT
--CATCTGTAAAAT-----
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

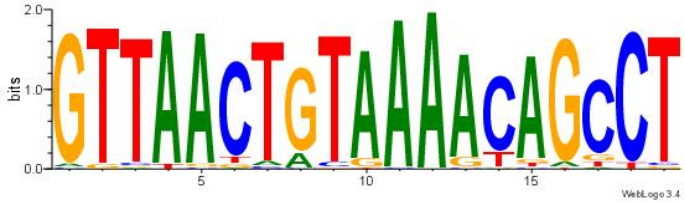

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

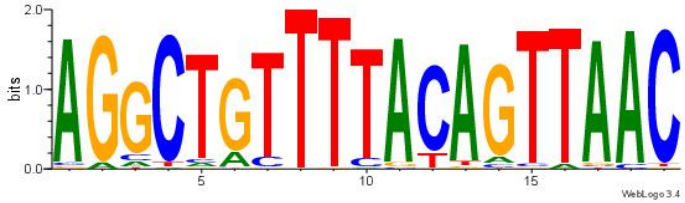

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0658845

Alignment:

```
AGTTCTTAAAGATGGT
--ATTTTACAGATG--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

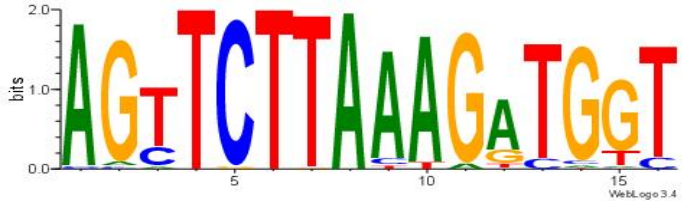

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

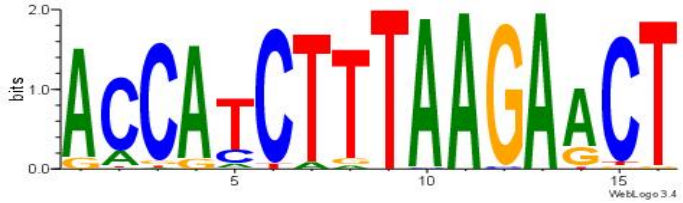

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.068248

Alignment:

```
TATTTACAGCTGCT
ATTTTACAGATG--
```

Original motif Consensus sequence: AGCAGCTGTAAATA

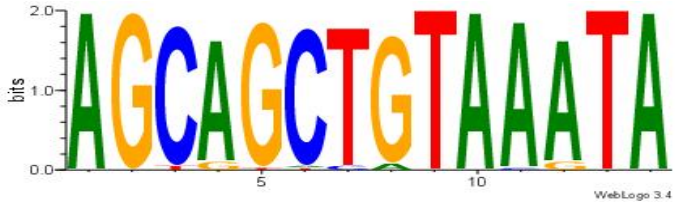

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

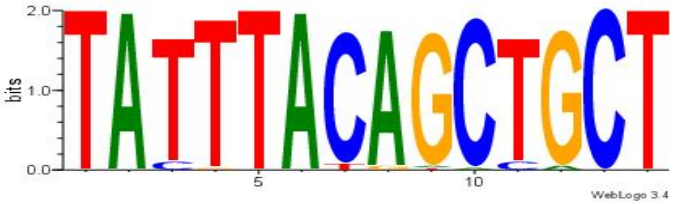

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0776147

Alignment:
AAATCTTAAAGCTC
--ATTTTACAGATG

Original motif Consensus sequence: AAATCTTAAAGCTC

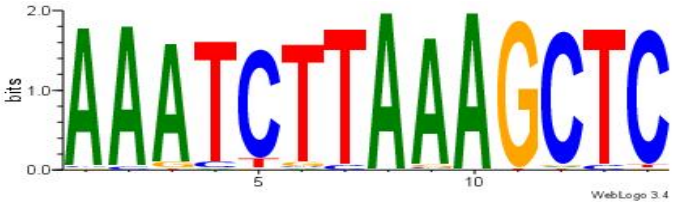

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

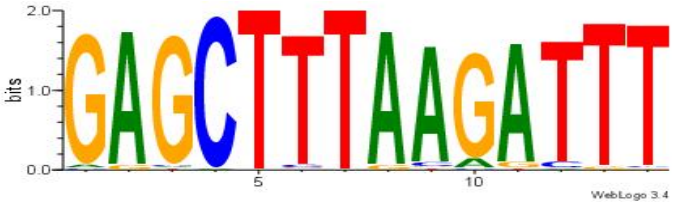

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0783249

Alignment:
ACATCMTCTGAAATCTAGG
----CATCTGTAAAAT---

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

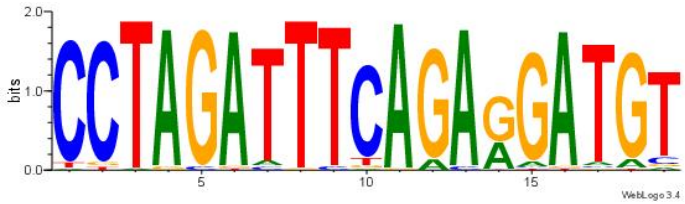

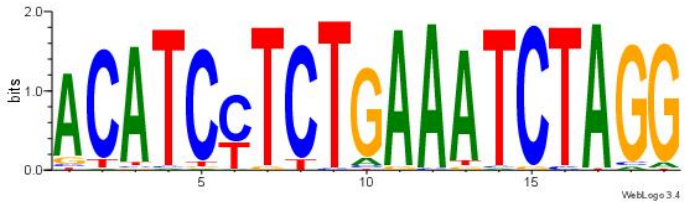

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0784565

Alignment:

```
CACTTCCCAGACGGGGCG
-----ATTTTACAGATG-
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

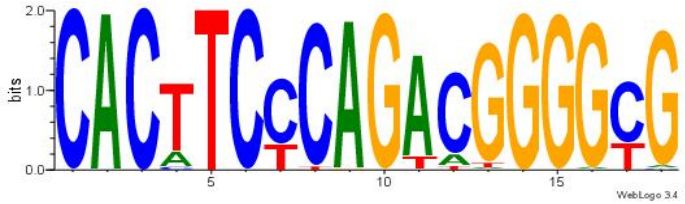

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

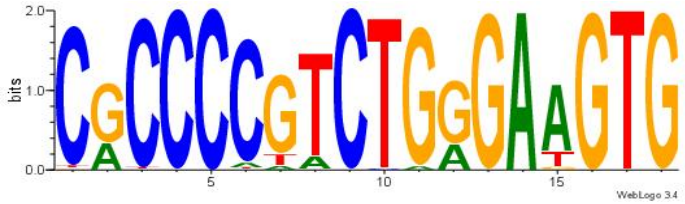

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0810717

Alignment:

```
CCCATGCAAGTCYRAAATCC
------CATCTGTAAAAT--
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

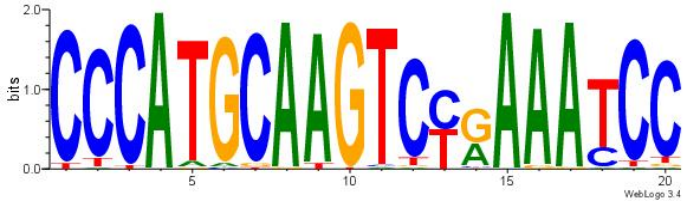

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

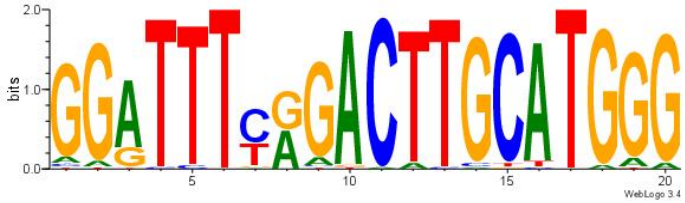

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.0810909

Alignment:
CACTTTCCAGACTGGGCA
-ATTTTACAGATG-----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

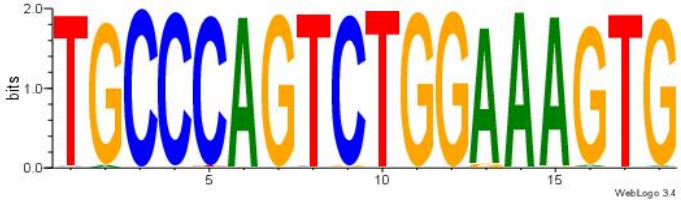

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

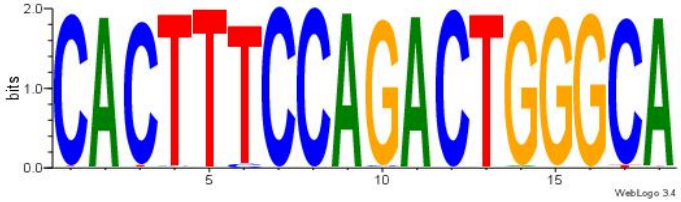

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 12
Similarity score: 0.0830236

Alignment:
ATCTGACAGGAGGYRGAGCT
ATTTTACAGATG--------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

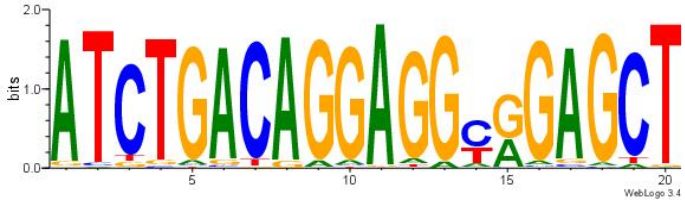

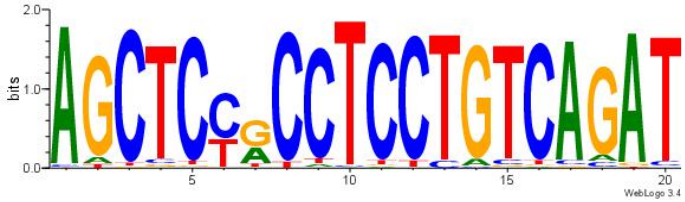

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0833244

Alignment:

```
CCATCTAGGAAGTG
-CATCTGTAAAAT-
```

Original motif Consensus sequence: CACTTCCTAGATGG

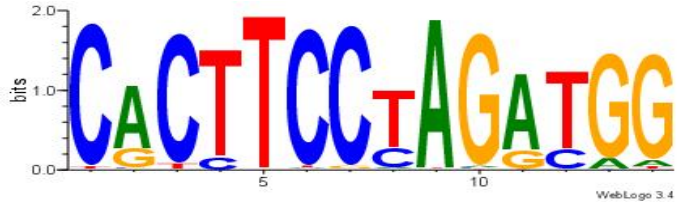

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

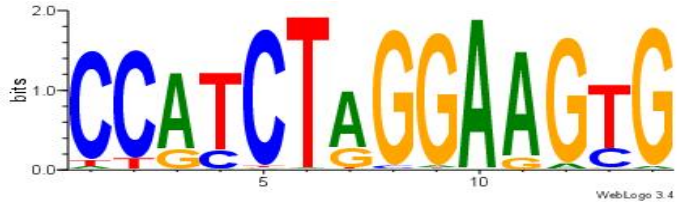

Dataset #:	1
Motif ID:	322

Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0837985

Alignment:

```
GCAWSTGCAAAGGCCCT
-CATCTGTAAAAT----
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

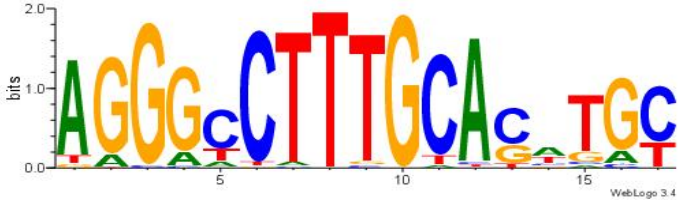

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

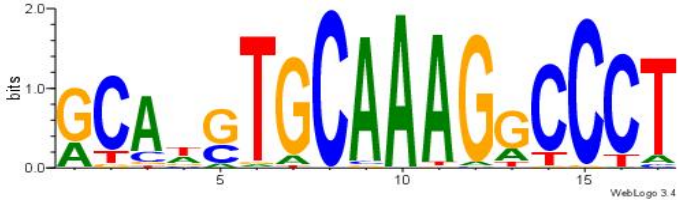

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0858421

Alignment:
TAATTTTATGTGTCAACTTG
------CATCTGTAAAAT--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

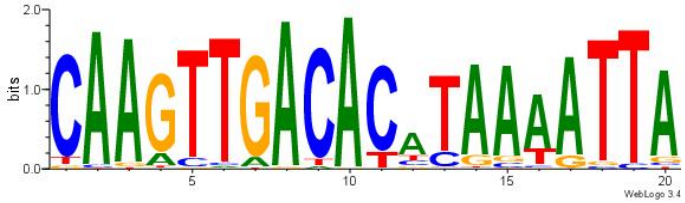

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

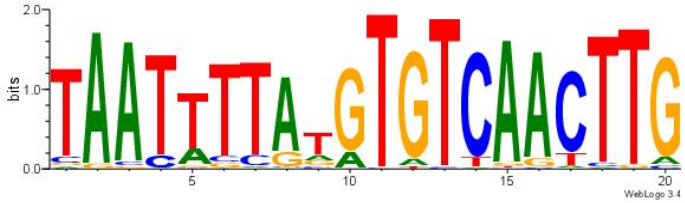

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0866944

Alignment:
TAGTGGTGATTTSTGAGAT
-------CATCTGTAAAAT

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

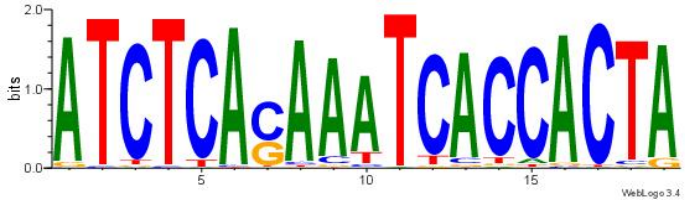

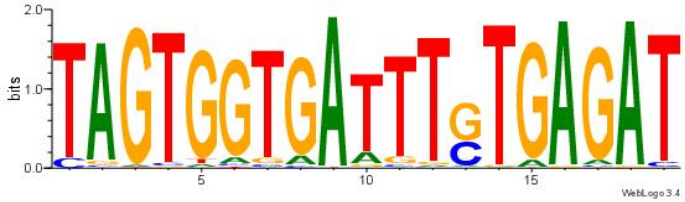

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.090485

Alignment:

```
TWTACCTATGTAACAAACCT
----CATCTGTAAAAT----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

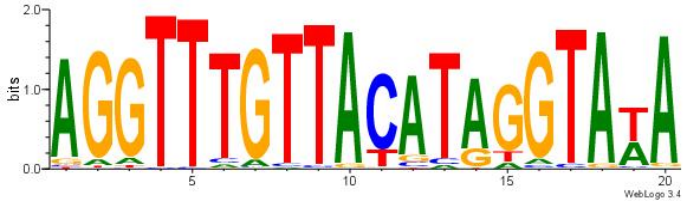

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

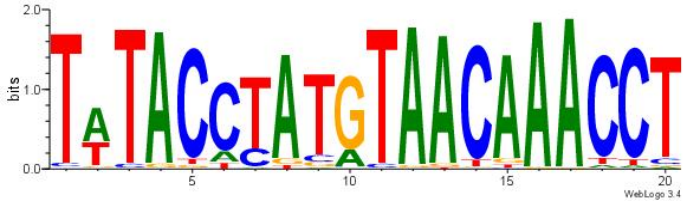

Dataset #: 1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.092507

Alignment:

```
BCVTCTGTCACCCC
-CATCTGTAAAAT-
```

Original motif Consensus sequence: GGGGTGACAGABGB

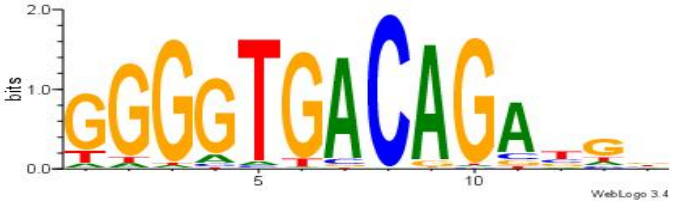

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

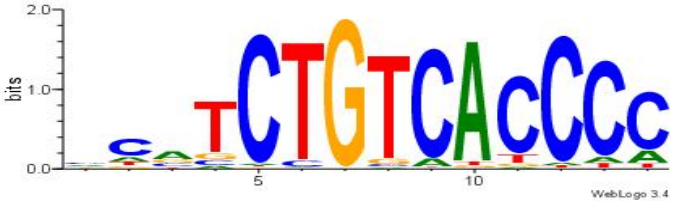

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0925763

Alignment:
ATATTGATGATCCTGACC
ATTTTACAGATG------

Original motif Consensus sequence: ATATTGATGATCCTGACC

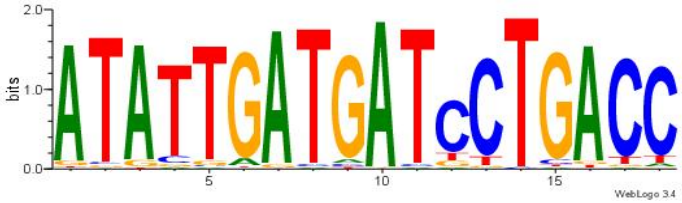

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

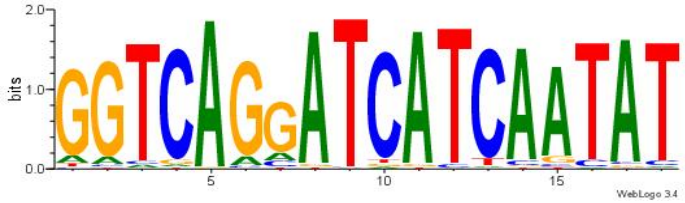

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0931751

Alignment:
TGGGCTGCCAGATG
--ATTTTACAGATG

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

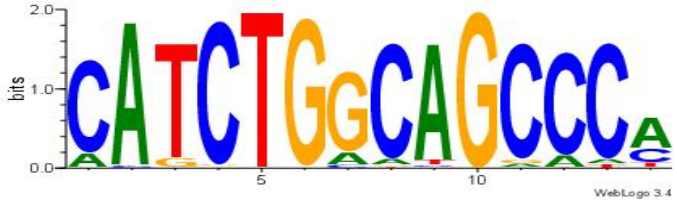

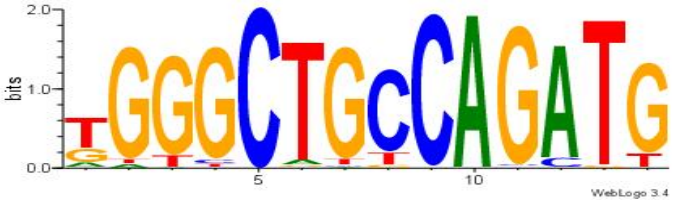

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0946714

Alignment:

```
GTKTMTATMTACCACATTTT
------ATTTTACAGATG--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

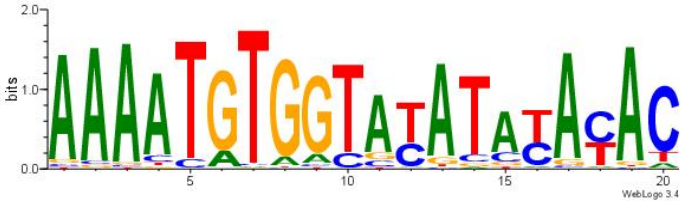

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

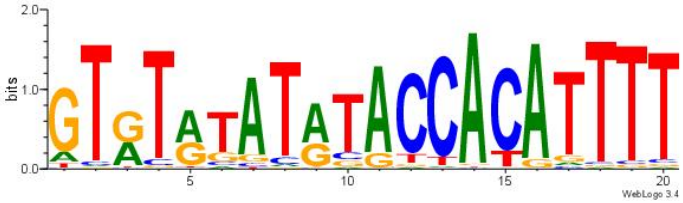

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0960309

Alignment:

```
ACCCAATWTGTAGTCTTTTA
----CATCTGTAAAAT----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

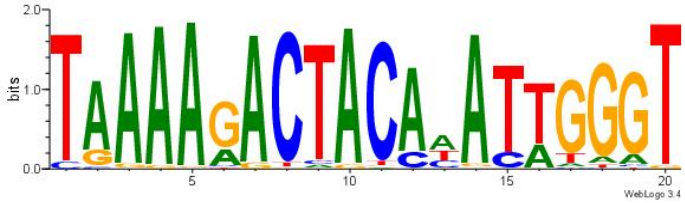

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

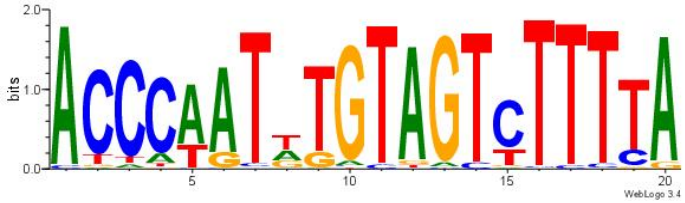

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.0962355

Alignment:
AATTAAAAGACACAGACTG
ATTTTACAGATG-------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

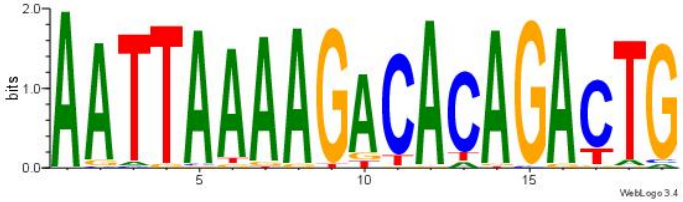

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

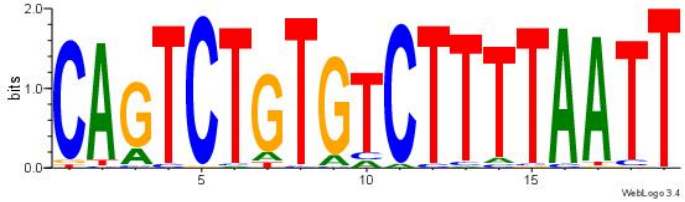

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0967817

Alignment:
AACCCTATTGTGAACTGYG
----CATCTGTAAAAT---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

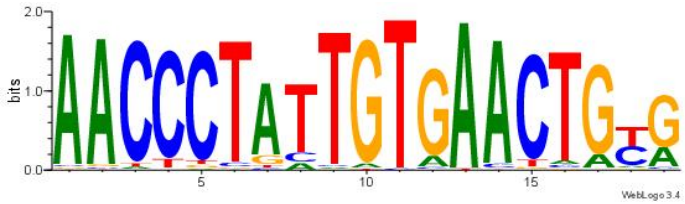

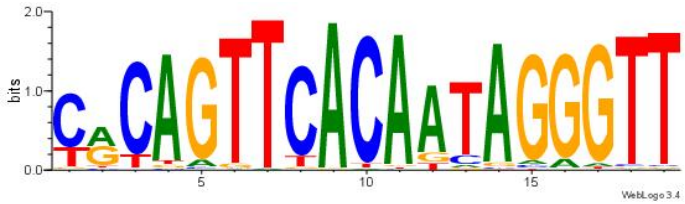

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0973462

Alignment:

```
ACCCYGTCTGGGAGGTG
----CATCTGTAAAAT-
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

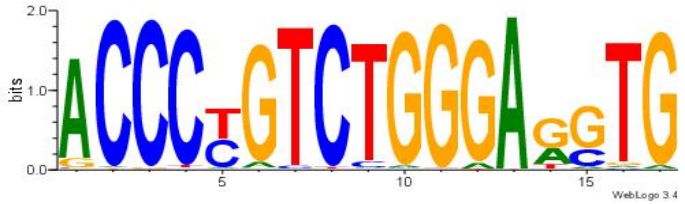

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

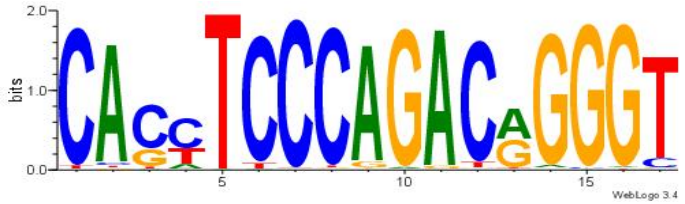

Dataset #: 1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0976599

Alignment:

```
TGGGGCTCCAGATG
--ATTTTACAGATG
```

Original motif Consensus sequence: CATCTGGAGCCCCA

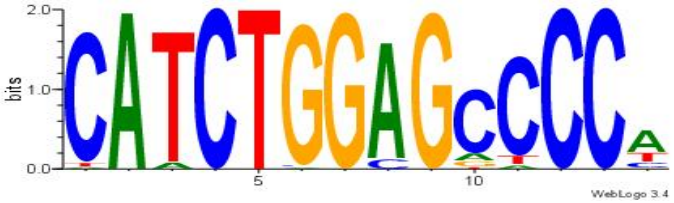

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

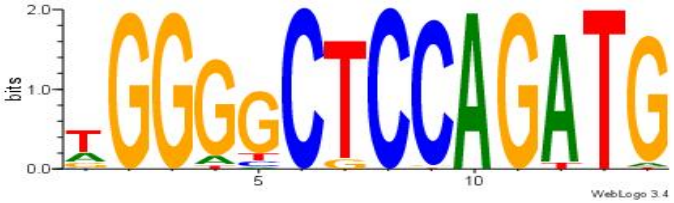

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0982668

Alignment:
CGGCTTCATTCTTGAAGTC
------CATCTGTAAAAT-

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

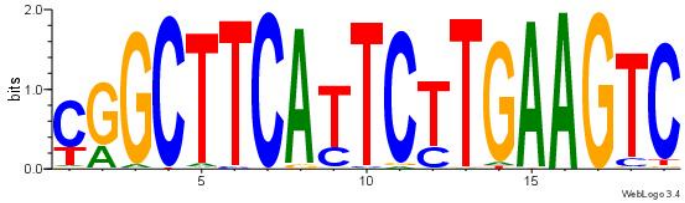

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.099094

Alignment:
CATTCTGGGGTCTGGAGGAY
--------CATCTGTAAAAT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

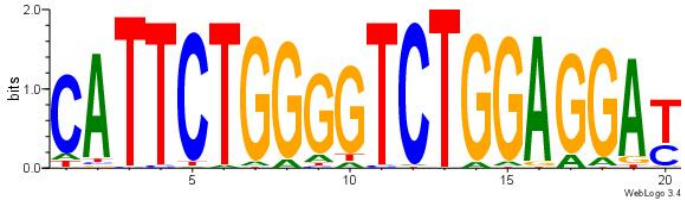

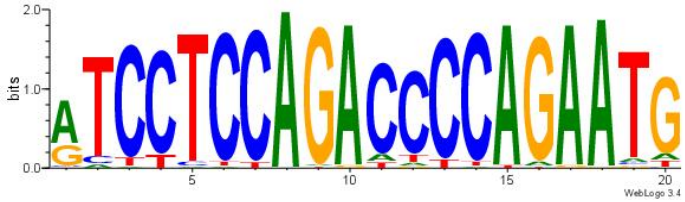

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0991519

Alignment:

```
GCCAATTTCTCCCATTTGGA
----ATTTTACAGATG----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

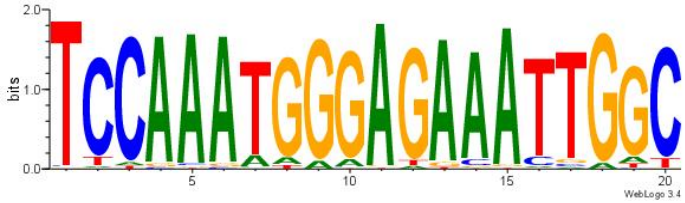

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

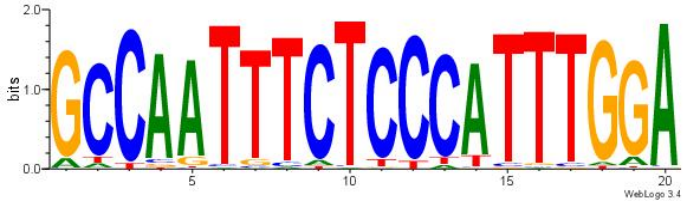

Dataset #:	1

Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0993425

Alignment:

```
TTTGTACCCATTA
ATTTTACAGATG-
```

Original motif Consensus sequence: TAATGGGTACAAA

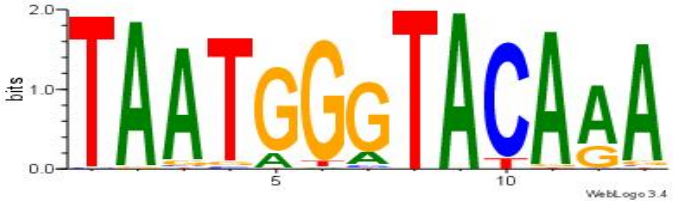

Reverse complement motif Consensus sequence: TTTGTACCCATTA

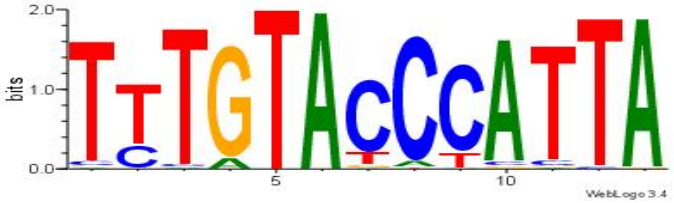

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.100325

Alignment:
GGGATTGTAAATACACCAAT
---ATTTTACAGATG-----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

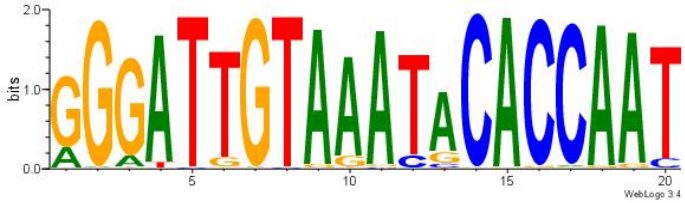

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.100663

Alignment:
AWTKKTGGTTKCCAGKGGCT
------ATTTTACAGATG--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

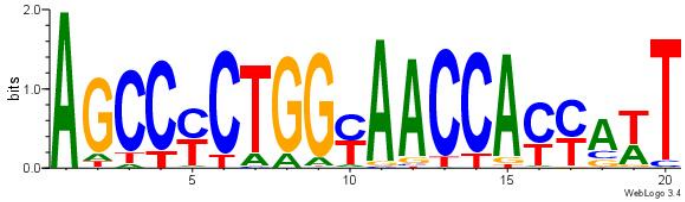

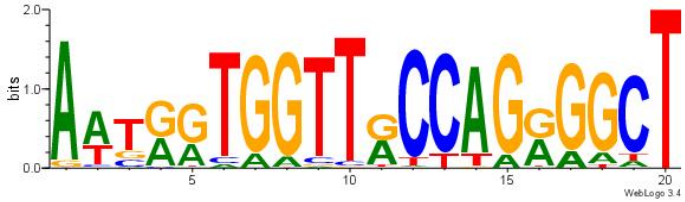

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.100989

Alignment:

```
CGCCCATCGTCTGGGATGT
CATCTGTAAAAT-------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

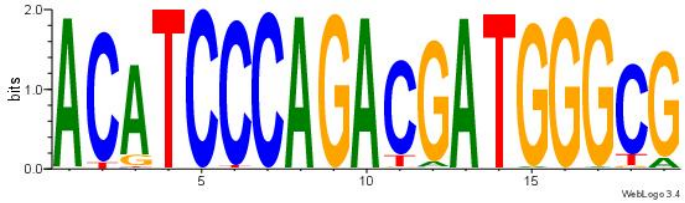

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

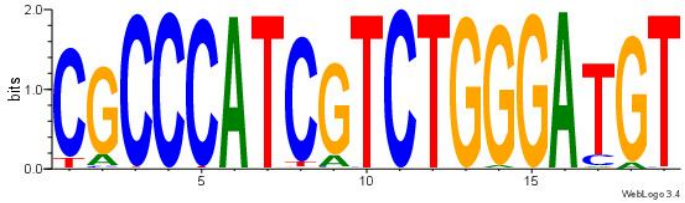

Dataset #: 1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.101238

Alignment:

```
CTATTGTGAATARTGCTGC
-----ATTTTACAGATG--
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

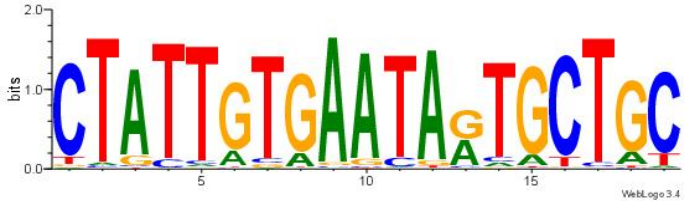

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

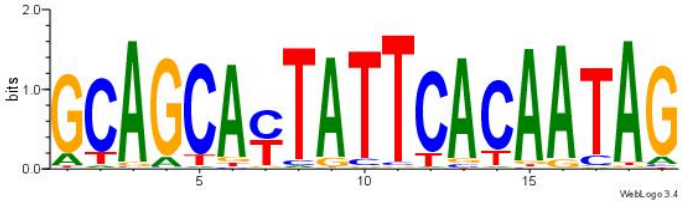

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.101755

Alignment:
AACAACAACAACAAMAA
-----CATCTGTAAAAT

Original motif Consensus sequence: AACAACAACAACAAMAA

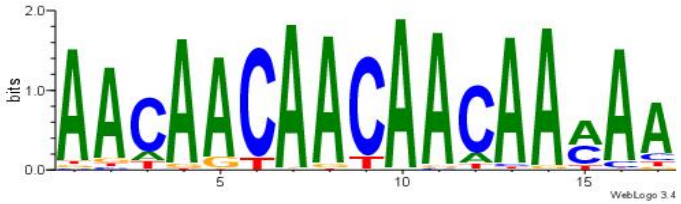

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

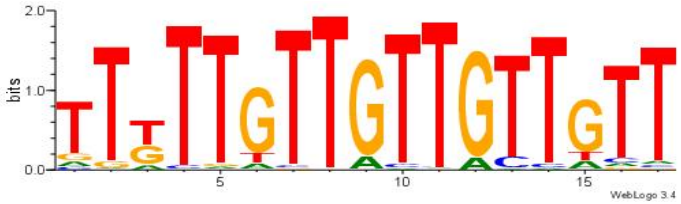

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.101847

Alignment:
TTGTCCCACTGGAAGGTCTT
-----CATCTGTAAAAT---

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

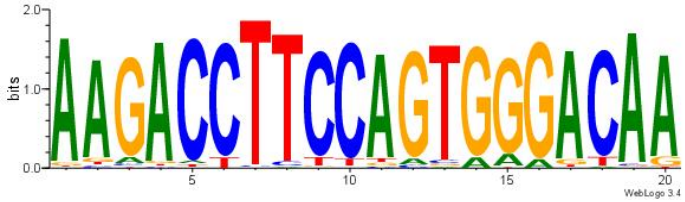

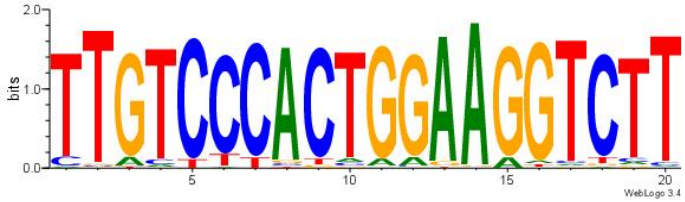

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.10186

Alignment:

```
CTGCTATAACAAA
CATCTGTAAAAT-
```

Original motif Consensus sequence: CTGCTATAACAAA

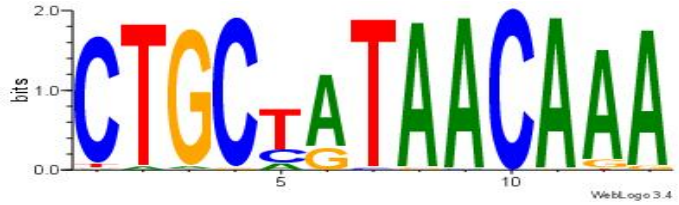

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

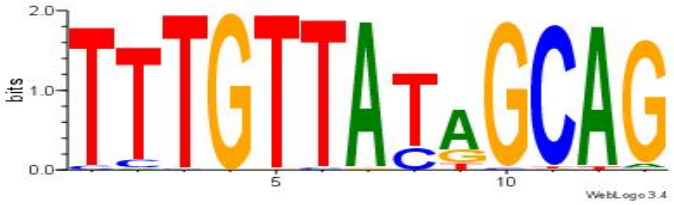

Dataset #:	1
Motif ID:	25

Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.102555

Alignment:

```
GTACCTCAGWTGGAAATG
CATCTGTAAAAT------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

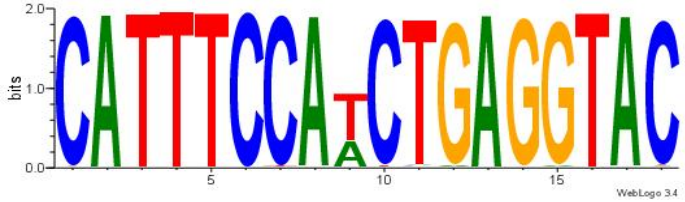

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

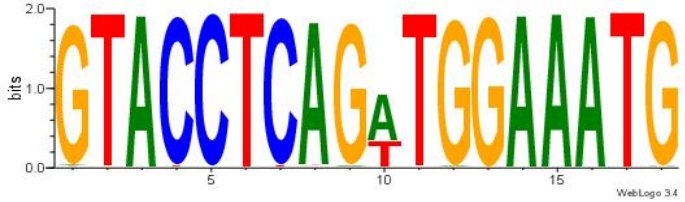

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102691

Alignment:
CAGCTACTCKTATACCCTTG
--------ATTTTACAGATG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

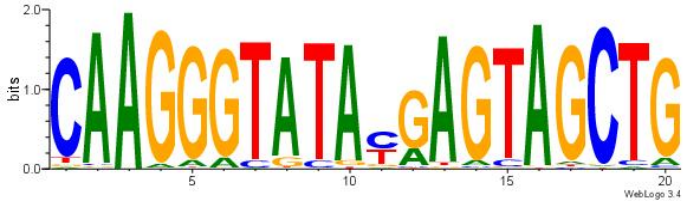

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

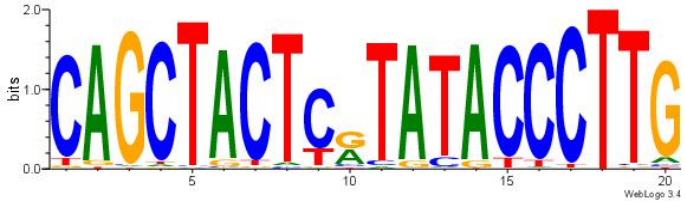

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.103052

Alignment:
GTTTAACCATTGAGGGCCAG
ATTTTACAGATG--------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

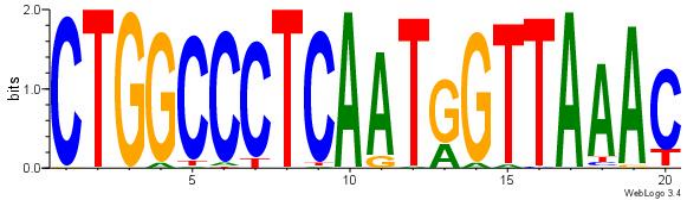

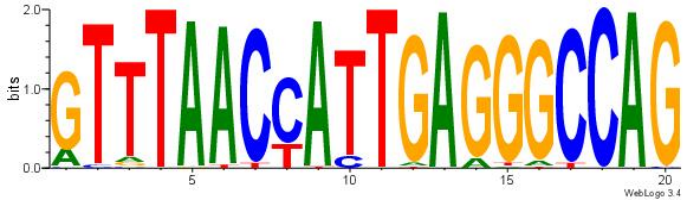

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.103079

Alignment:

```
GCCGTTTKTTAAGCCCGTY
--CATCTGTAAAAT-----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

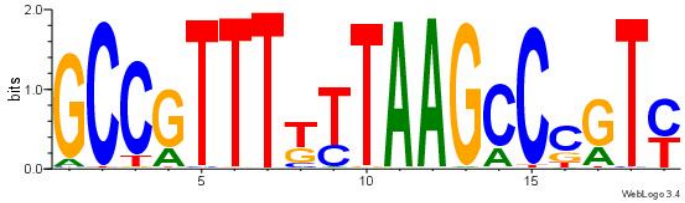

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

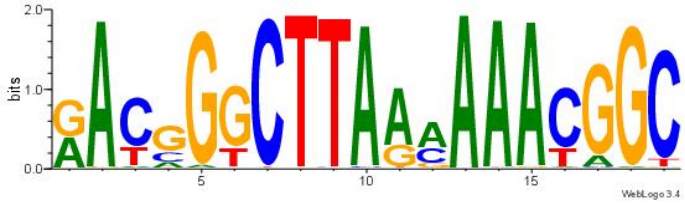

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.103287

Alignment:

```
ATAGGAATGCTTGTGATTTT
------ATTTTACAGATG--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

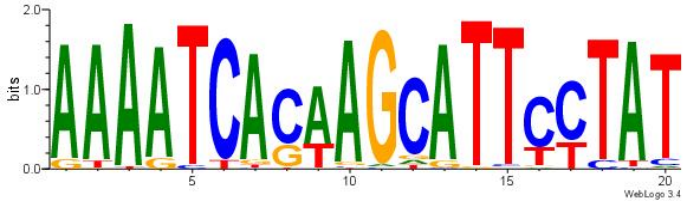

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

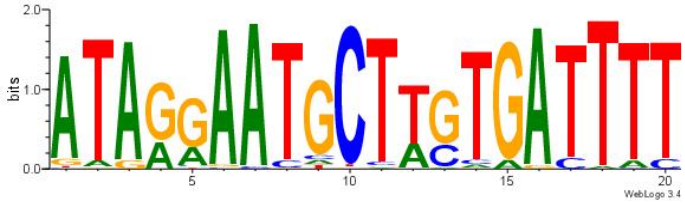

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.104011

Alignment:
CATTTGGGAGCCCATTGA
CATCTGTAAAAT------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

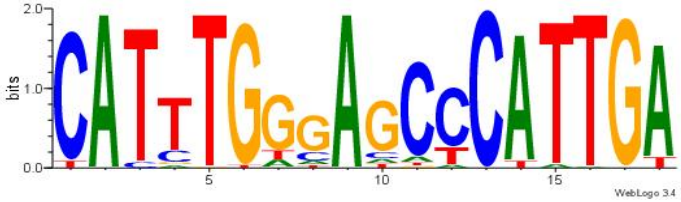

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

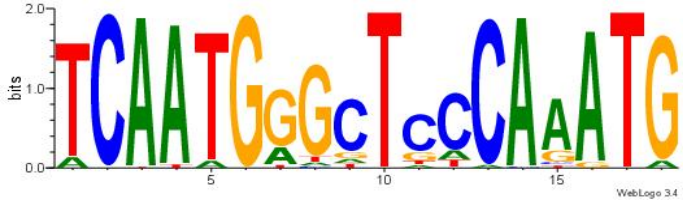

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.104043

Alignment:
CAAAGGCATAAGAATGAT
------CATCTGTAAAAT

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

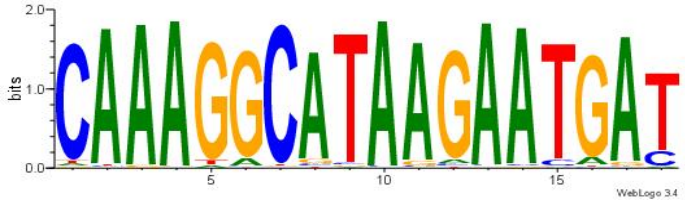

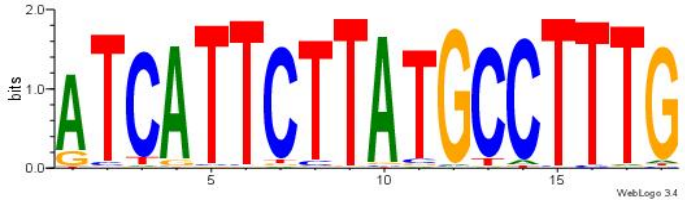

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.104612

Alignment:

```
MGGGATATAATCTCCTGGTG
--------ATTTTACAGATG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

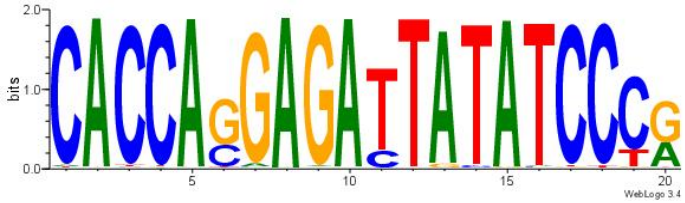

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

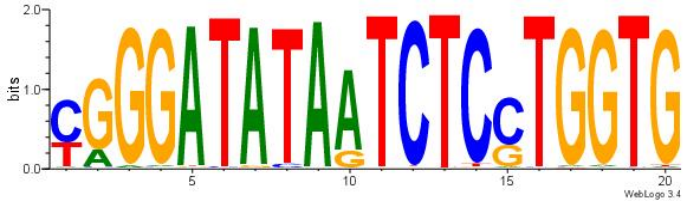

Dataset #: 1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.105195

Alignment:

```
ATCCATCCATCCATCCA
---CATCTGTAAAAT--
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

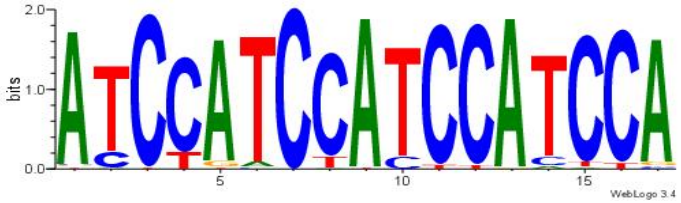

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.105373

Alignment:
GTCTCWAMAAAAAAWAMAAA
-CATCTGTAAAAT-------

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

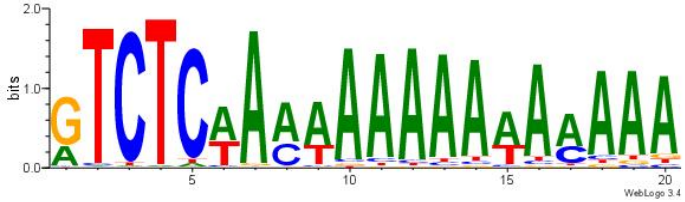

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

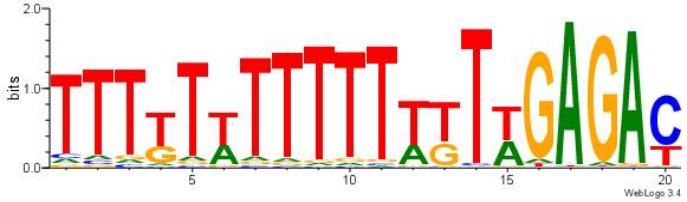

Dataset #: 1
Motif ID: 282
Motif name: Motif 282
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.105606

Alignment:
GTCTCTACTAAAA
-CATCTGTAAAAT

Original motif Consensus sequence: GTCTCTACTAAAA

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

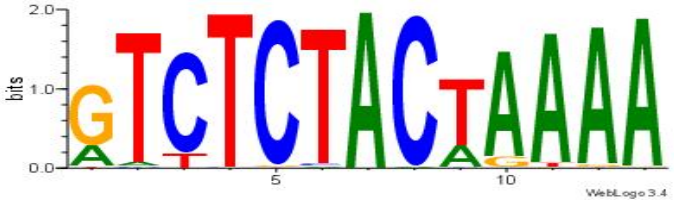

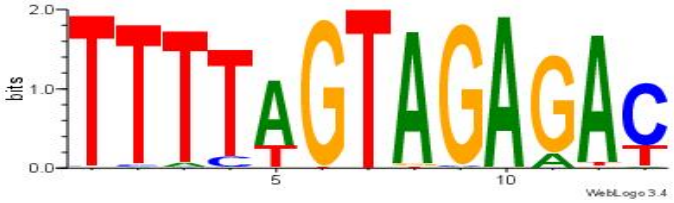

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.105902

Alignment:

```
CTCATTTAATCCTCACAAC
-------CATCTGTAAAAT
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

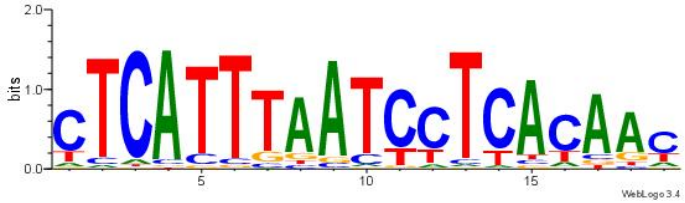

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

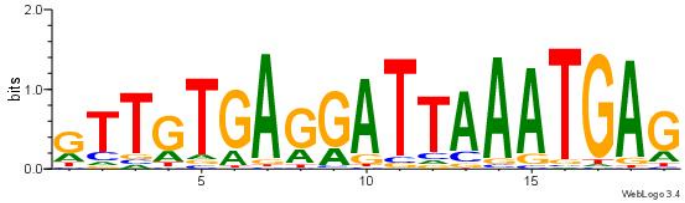

Dataset #: 1

Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.106569

Alignment:

```
AGCAGYTTGGAAACACT
--CATCTGTAAAAT---
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

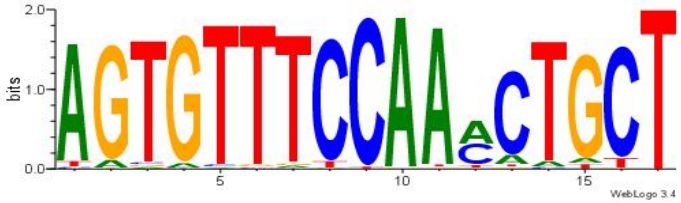

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

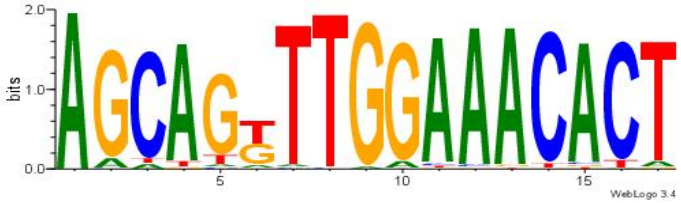

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.107223

Alignment:
TTMGTCCCAGAGGGGCACC
-ATTTTACAGATG------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

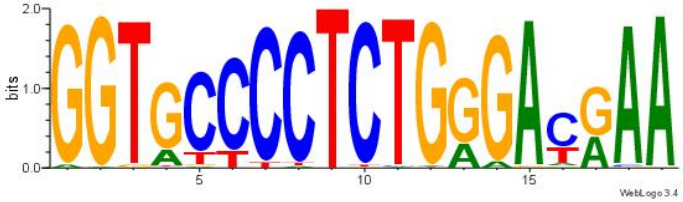

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

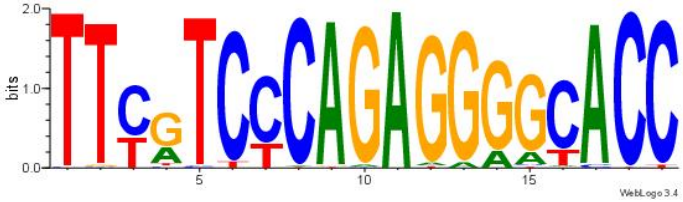

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.107623

Alignment:
AGTAGGTGCTCARTAAATRB
-------CATCTGTAAAAT-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

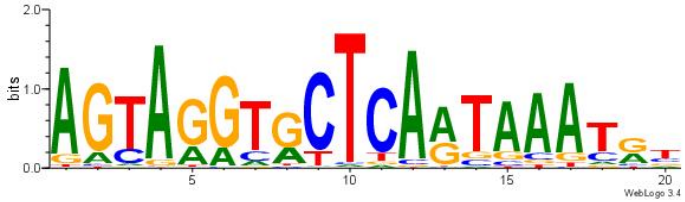

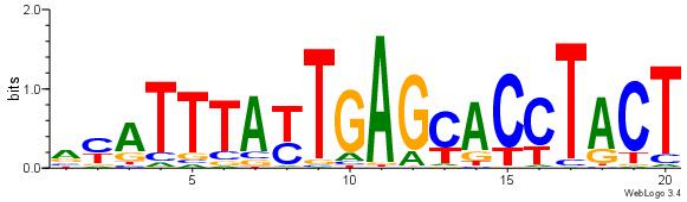

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.107735

Alignment:

```
TYTGTCMTTTTGTGACTGGC
------ATTTTACAGATG--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

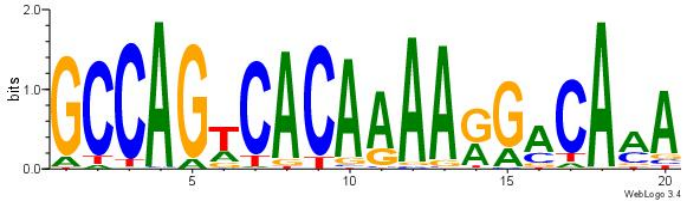

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

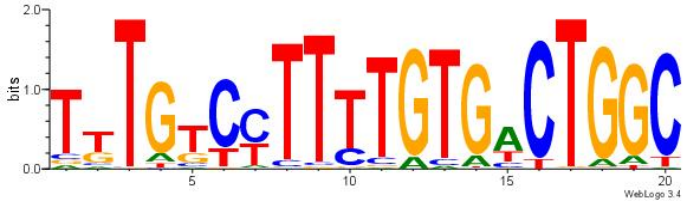

Dataset #: 1 Motif ID: 82 Motif name: Motif 82

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

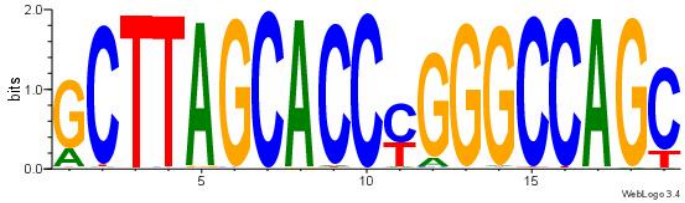

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

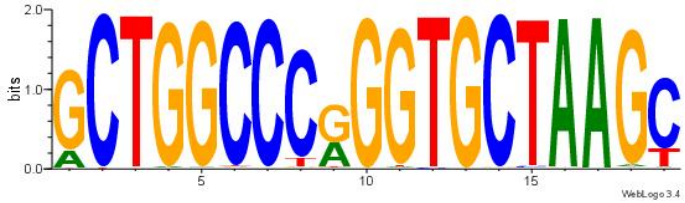

Best Matches for Motif ID 82 (Highest to Lowest)

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0733424

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

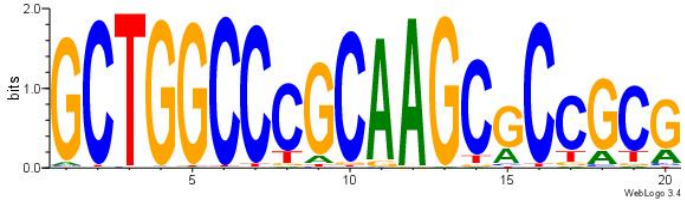

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

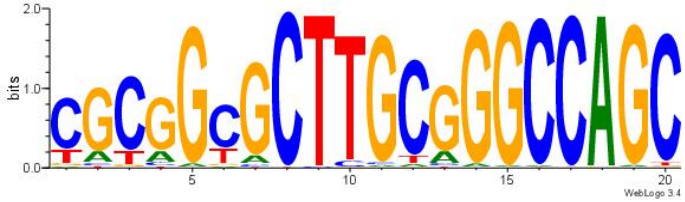

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.104947

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-GCTGGCCCKGGTGCTAAGC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

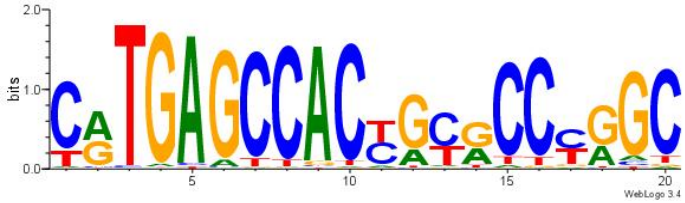

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

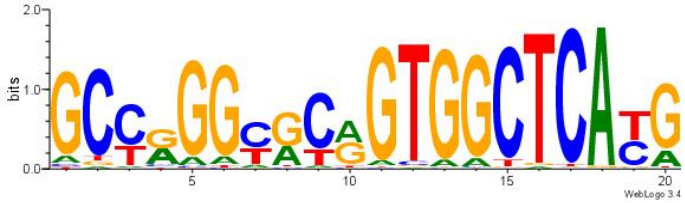

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 1
Number of overlap: 19
Similarity score: 0.10979

Alignment:
ACTCAGCCCRCCTGCACCC
GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

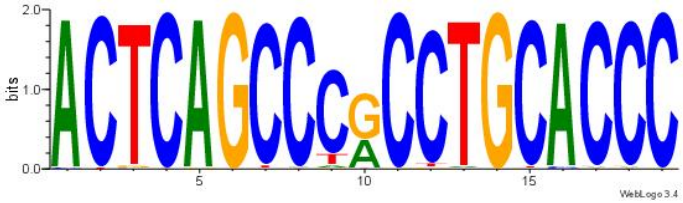

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

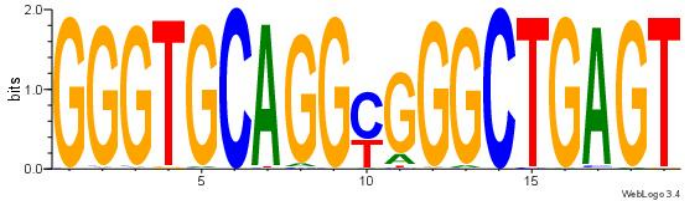

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.114535

Alignment:
TCCCTCCCGGACGGGGYGGC
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

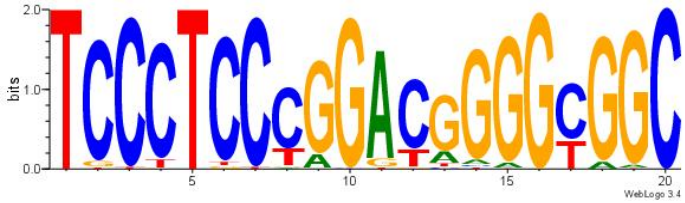

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

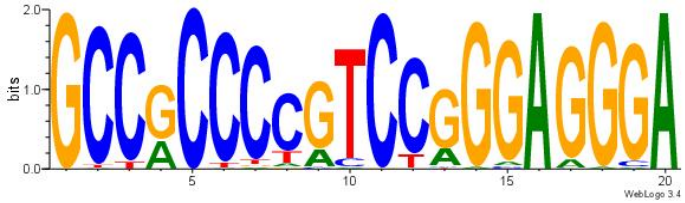

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.115408

Alignment:

```
ACTTTGGACTGTGGACTTTT
GCTTAGCACCYGGGCCAGC-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

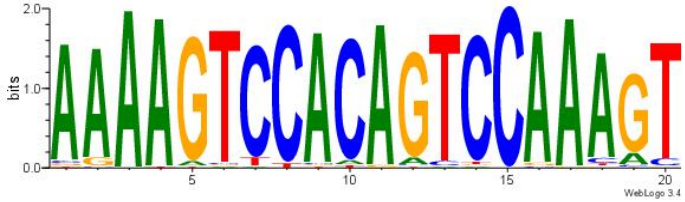

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

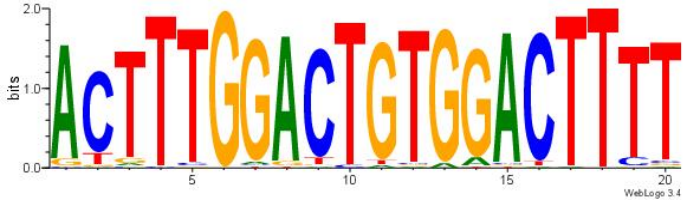

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.11687

Alignment:

```
GAATACCTCCTGAAGGACCT
GCTTAGCACCYGGGCCAGC-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

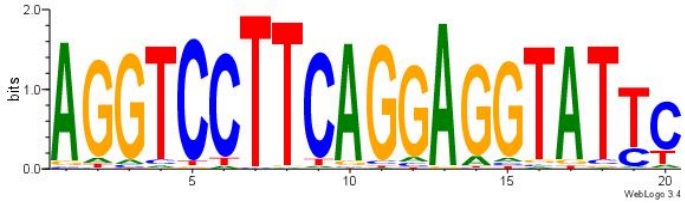

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

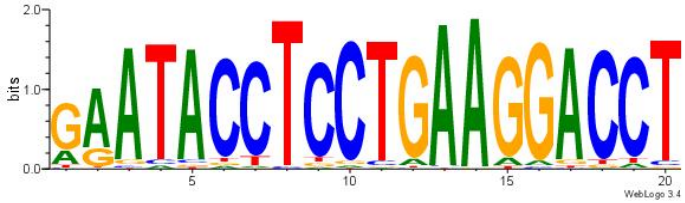

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.117545

Alignment:
ACCTGGAAAATCGGGTCACT
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

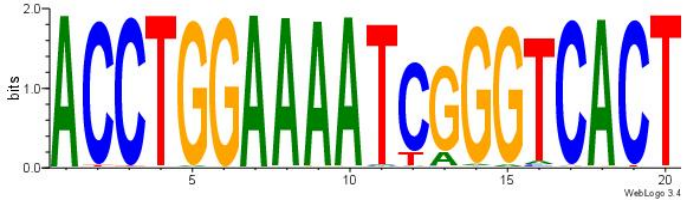

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

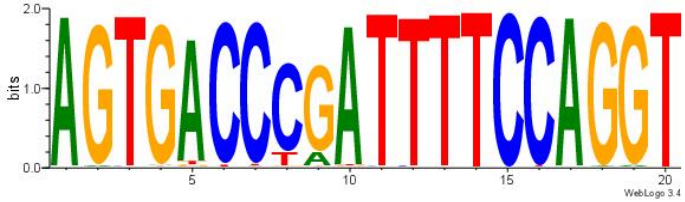

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.118064

Alignment:
GGTTCATCTCACTAGGGAGT
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

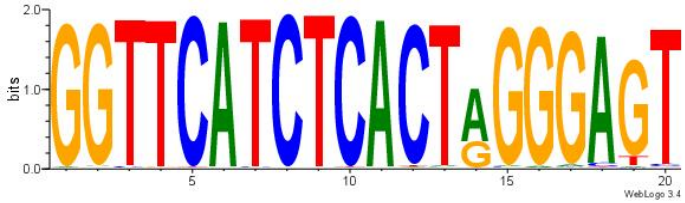

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

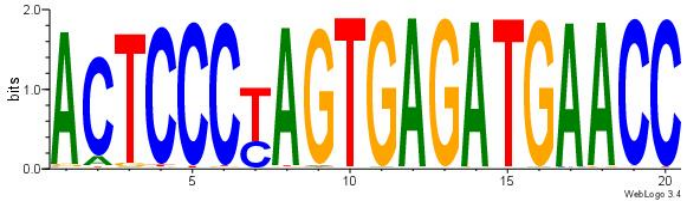

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.120391

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

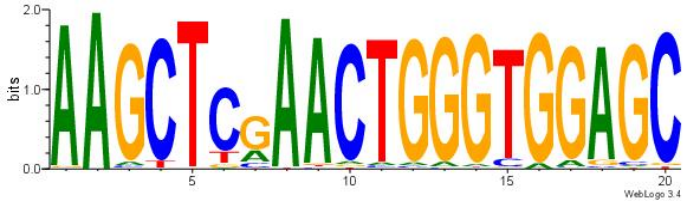

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

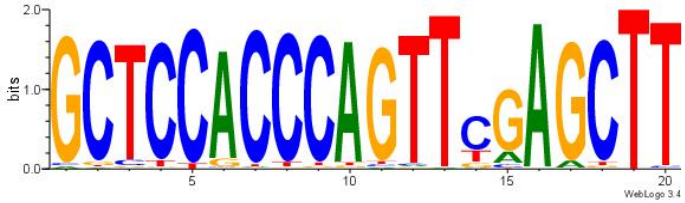

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.121911

Alignment:

```
TCTGGAGTGGACCTCCAGCA
GCTGGCCCKGGTGCTAAGC-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

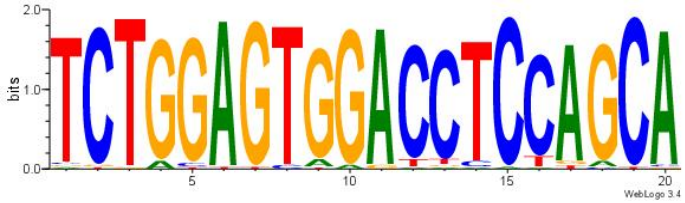

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

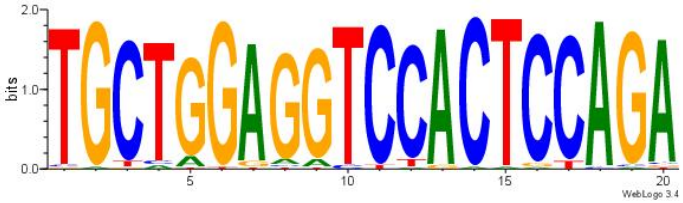

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.122793

Alignment:
AGCTCMKCCTCCTGTCAGAT
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

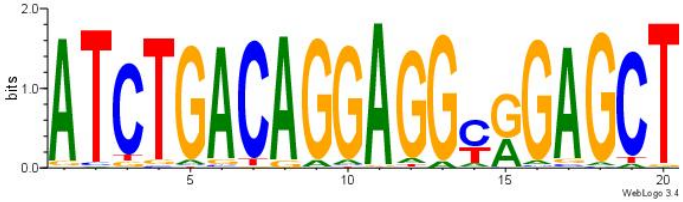

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

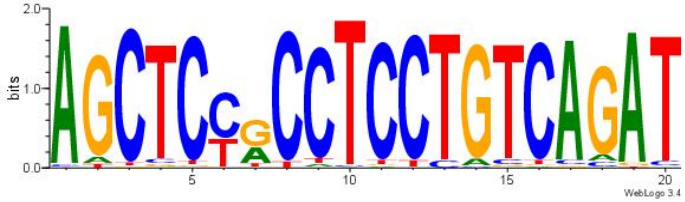

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.124068

Alignment:
GACTGGCAGGCAGCTCCACC
GCTTAGCACCYGGGCCAGC-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

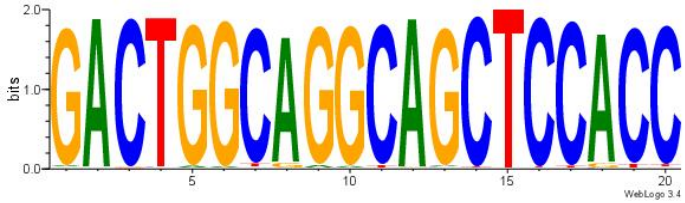

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

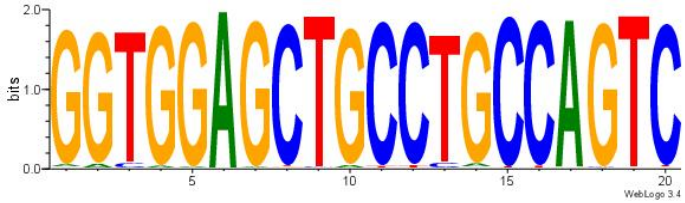

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12423

Alignment:

```
GGCATCACGGATCCTACCAA
GCTGGCCCKGGTGCTAAGC-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

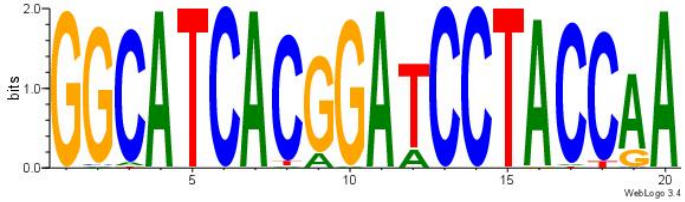

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

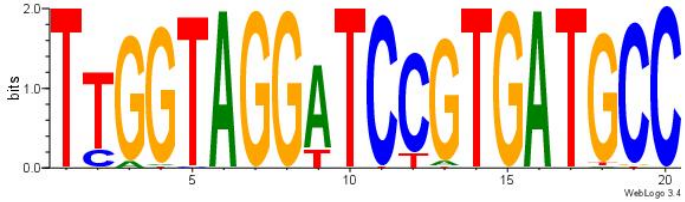

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.124907

Alignment:

```
AATCAACCCTGGYRATCAAT
-GCTGGCCCKGGTGCTAAGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

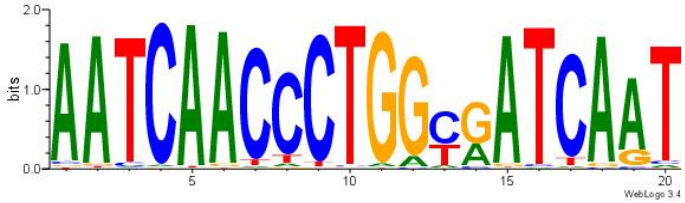

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

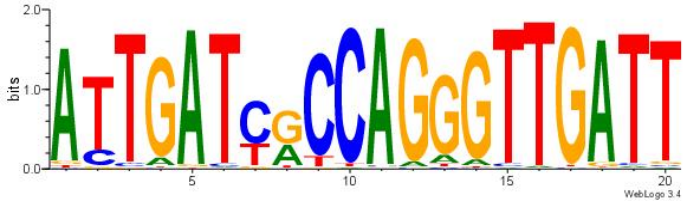

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.12629

Alignment:
CTTTCTGGGCTGGCCAAGG
GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

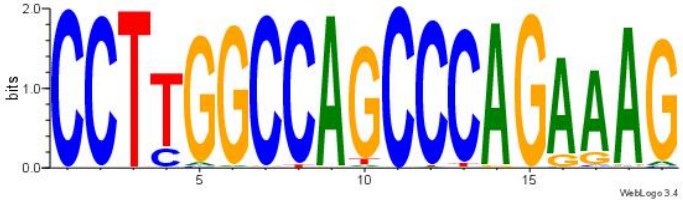

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

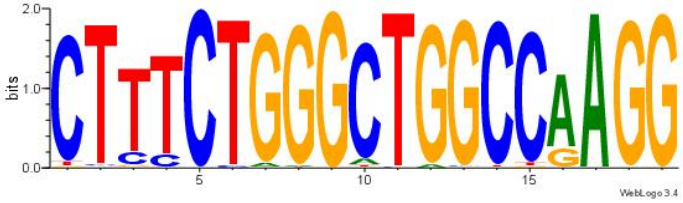

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.130109

Alignment:
CTGGGCRACAGAGYRAGACY
-GCTGGCCCKGGTGCTAAGC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

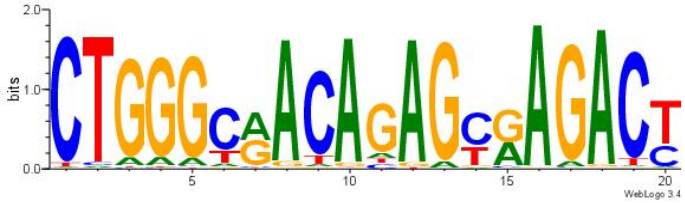

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

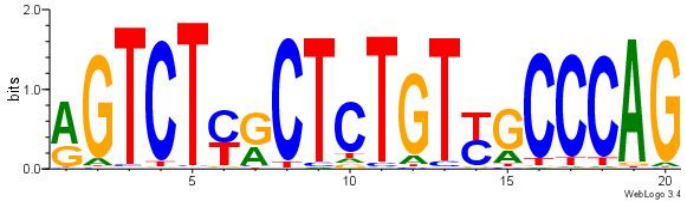

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.130336

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-GCTGGCCCKGGTGCTAAGC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

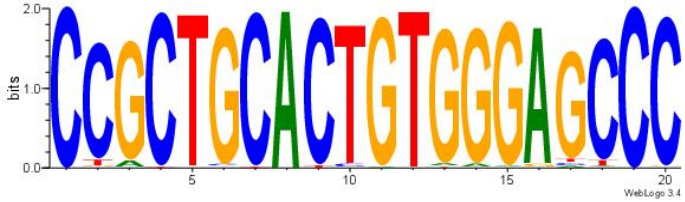

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

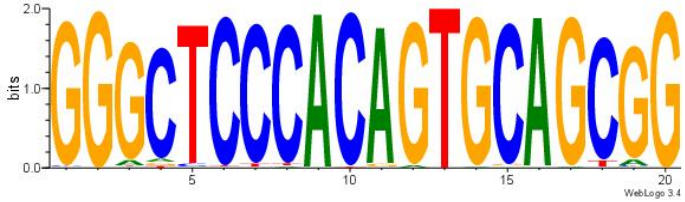

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.131289

Alignment:

```
AGCTCCCAGCGTGAGCGACG
-GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

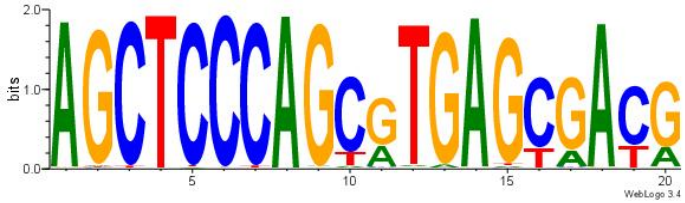

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

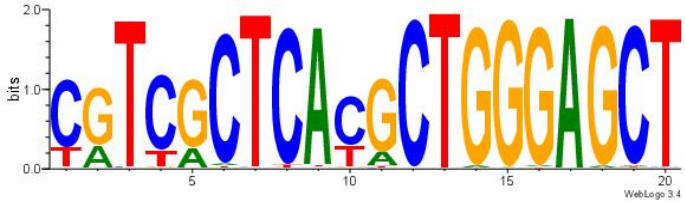

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.131319

Alignment:
GGTGCCCCTCTGGGACRAA
GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

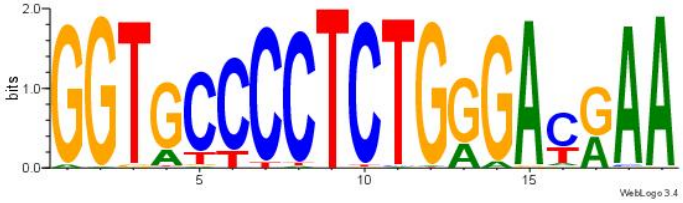

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

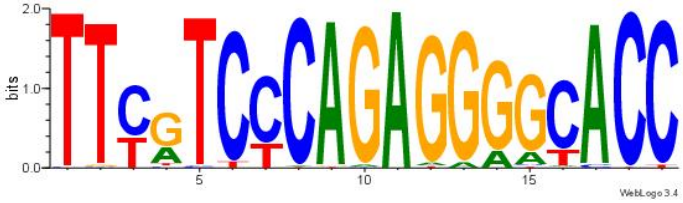

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.13175

Alignment:
ATTAGCYRGGCRTGGTGGC
GCTGGCCCKGGTGCTAAGC

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

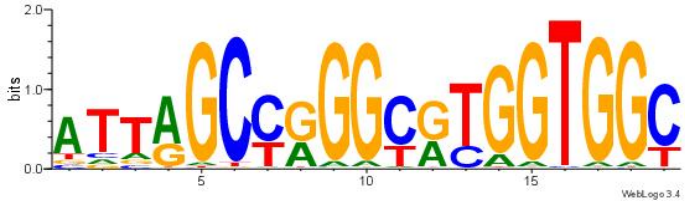

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

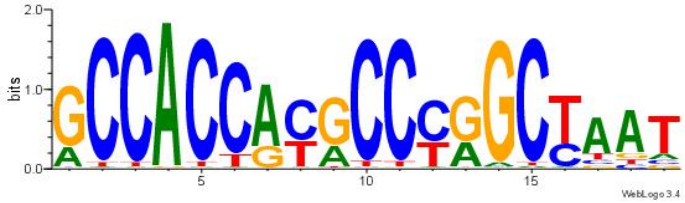

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132584

Alignment:

```
GCAAAKGACATGATYTCATT
GCTTAGCACCYGGGCCAGC-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

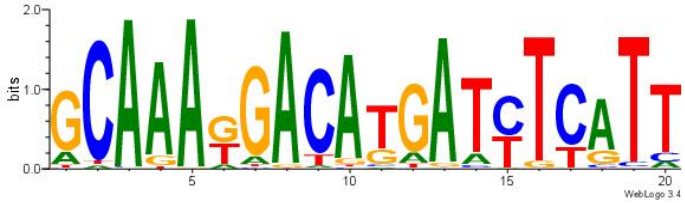

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

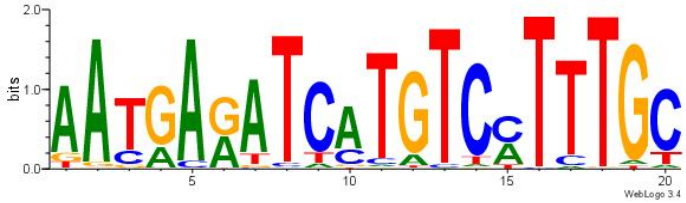

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132716

Alignment:
AAAGTGCCGAGAKTGCAGC
GCTGGCCCKGGTGCTAAGC

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

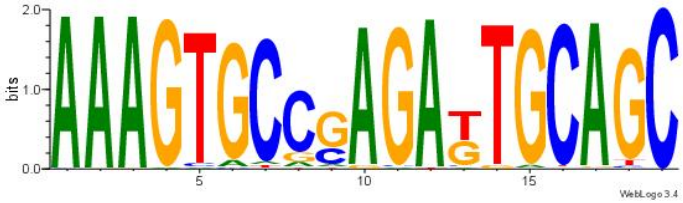

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

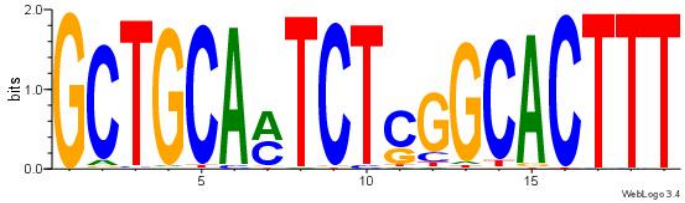

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.132986

Alignment:
CTGGGTCCCCCAGCAGTGCC
GCTGGCCCKGGTGCTAAGC-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

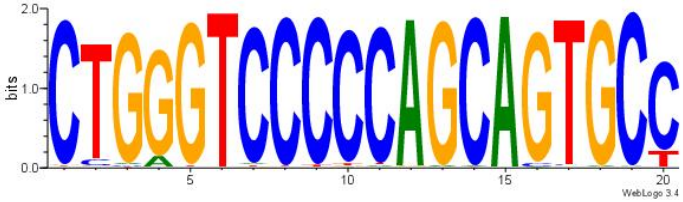

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

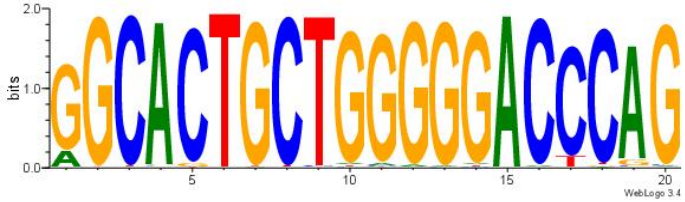

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.133298

Alignment:
TGGCTTCACCCAGTGGATCC
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

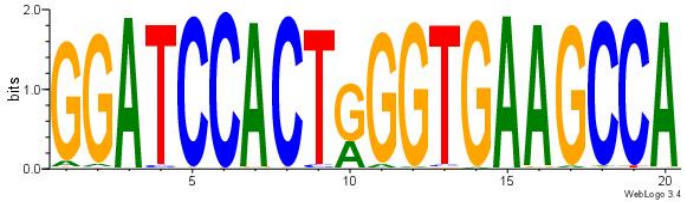

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

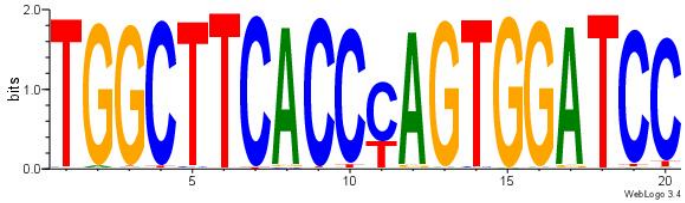

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.133504

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GCTGGCCCKGGTGCTAAGC-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

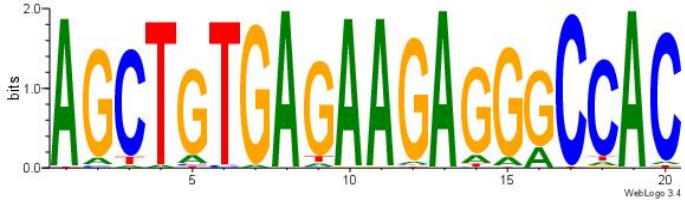

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

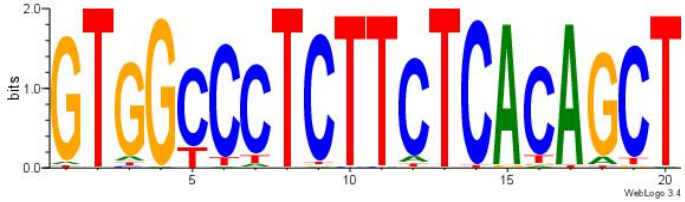

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133637

Alignment:
GTTATTAATTGGCCTAATTT
GCTGGCCCKGGTGCTAAGC-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

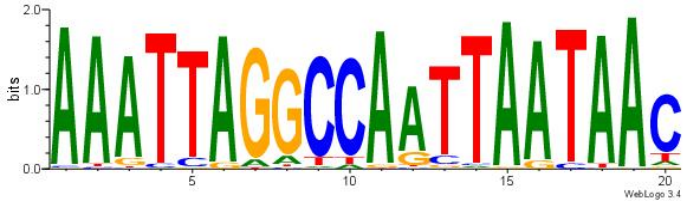

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.133773

Alignment:
GGGATTGTAAATACACCAAT
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

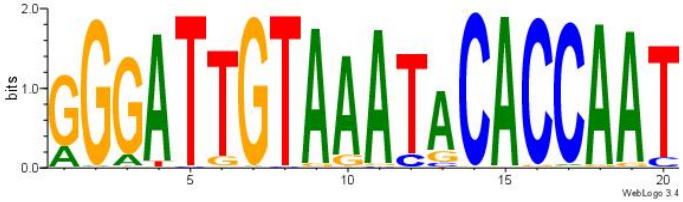

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.134503

Alignment:
GCCTCTCCCTCCACACCTCC
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

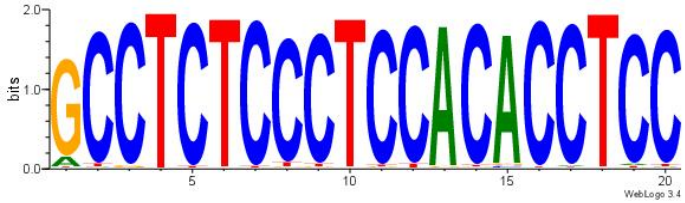

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

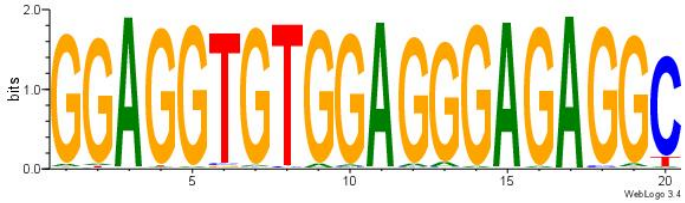

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134924

Alignment:

```
AGTGAGAACATRYRRTRTTT
GCTTAGCACCYGGGCCAGC-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

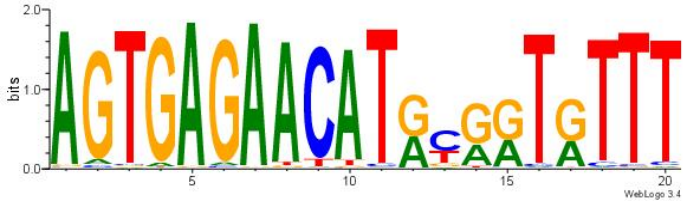

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

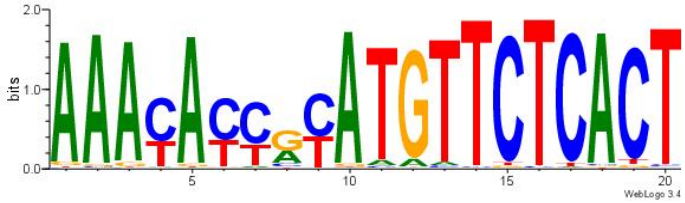

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135031

Alignment:
AGGASCSTCYSWGCCMGGY
GCTGGCCCKGGTGCTAAGC

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

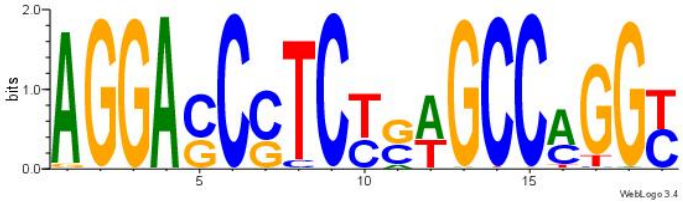

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

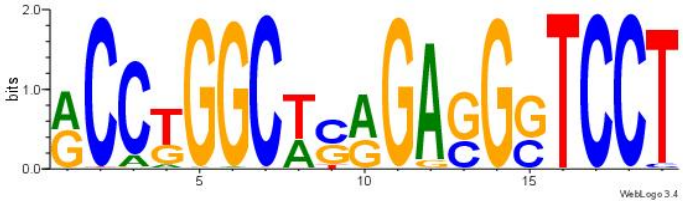

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.135186

Alignment:
GCCGGGRAGAGGCGCTCCT
GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

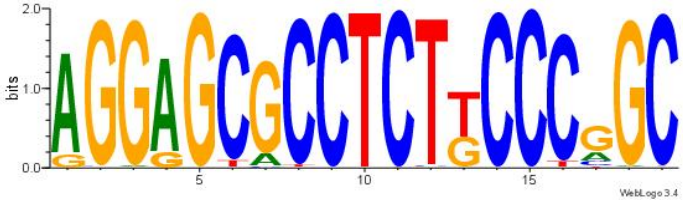

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

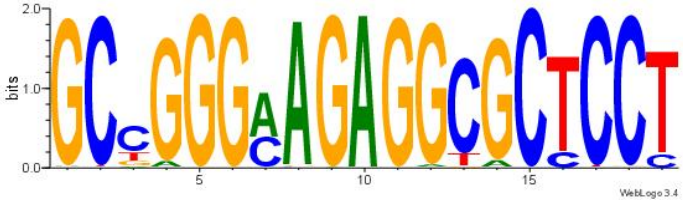

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.136222

Alignment:
GTGCCAGGCACTGTKCTARG
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

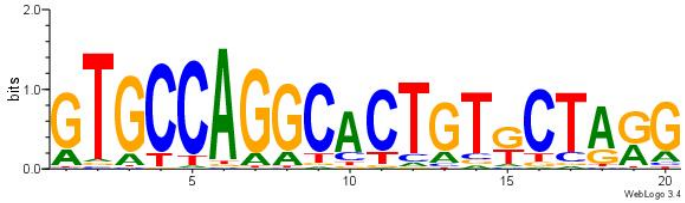

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

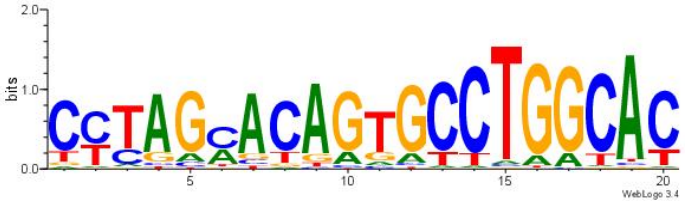

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136326

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

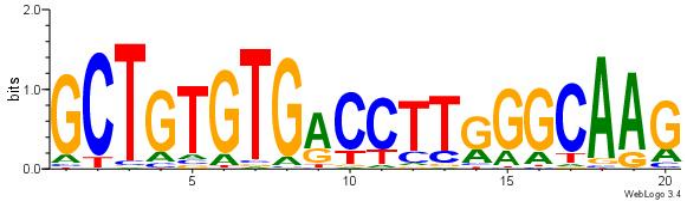

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

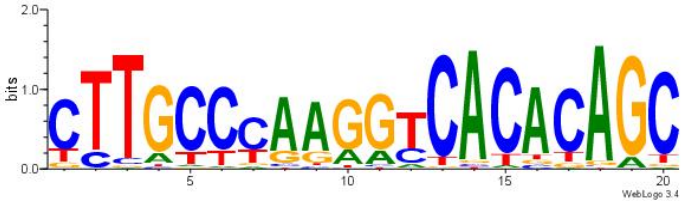

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.136943

Alignment:

GCCAGGCAGAGRGKCTCCT

GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

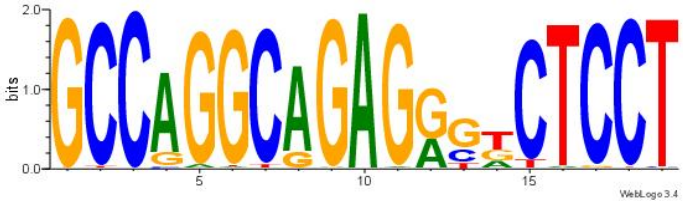

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

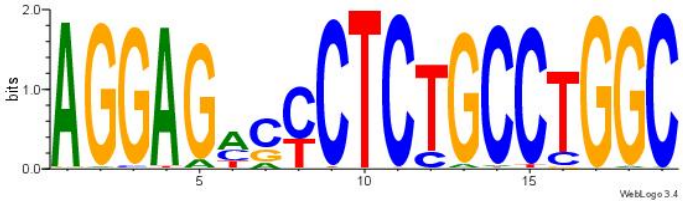

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.13745

Alignment:
TWTACCTATGTAACAAACCT
GCTGGCCCKGGTGCTAAGC-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

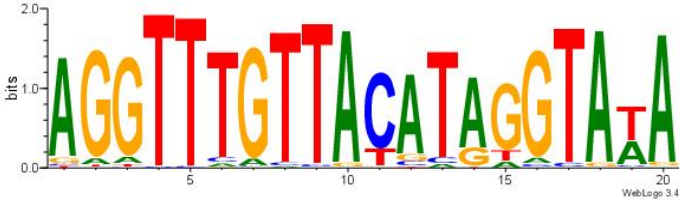

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

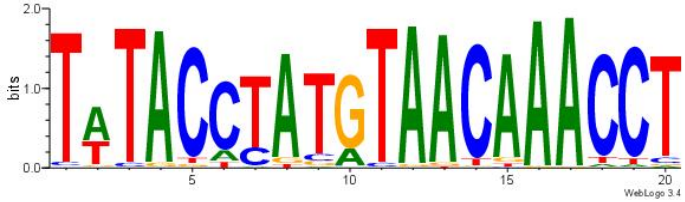

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137593

Alignment:
ACCGAGMKMGCAGCTTCGGG
GCTTAGCACCYGGGCCAGC-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

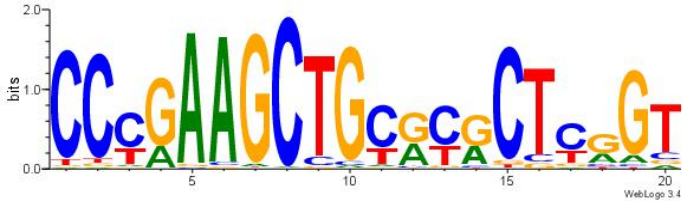

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

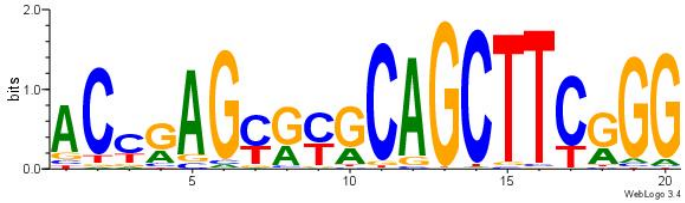

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.137992

Alignment:

```
AGATGCCAGCCAGAGCTCT
GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

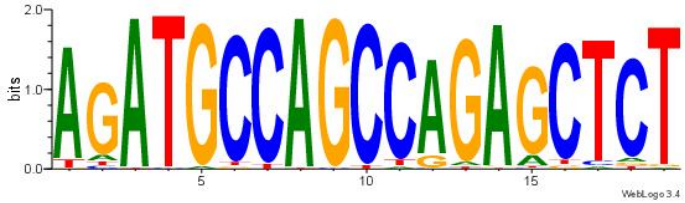

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

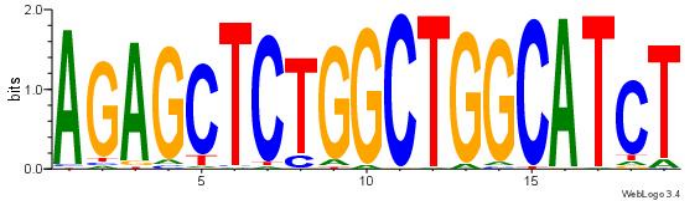

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138217

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-GCTGGCCCKGGTGCTAAGC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

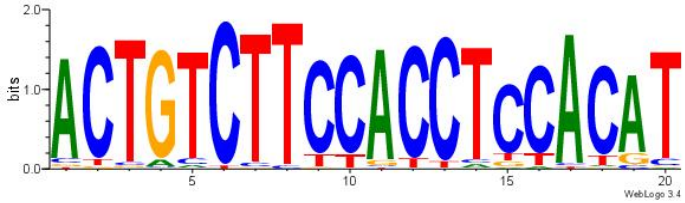

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

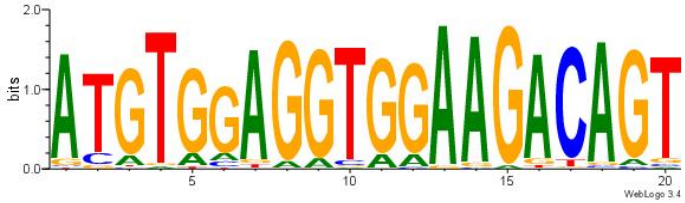

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.138953

Alignment:
KCCGGGCCTTAGCTGCCTTC
-GCTGGCCCKGGTGCTAAGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

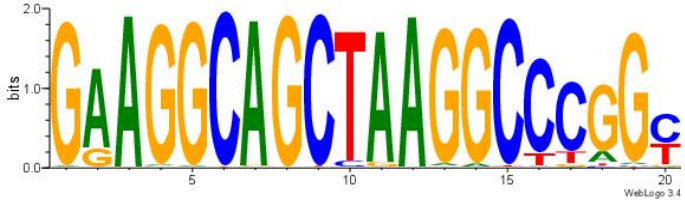

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

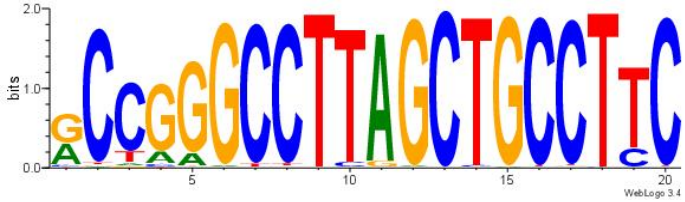

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.139661

Alignment:
GTTTAACCATTGAGGGCCAG
GCTTAGCACCYGGGCCAGC-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

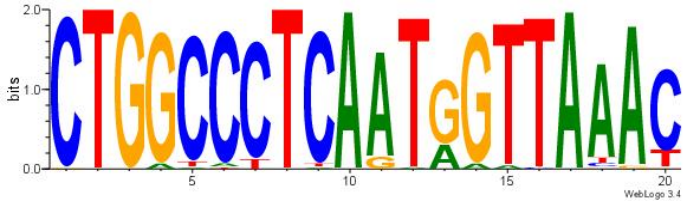

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

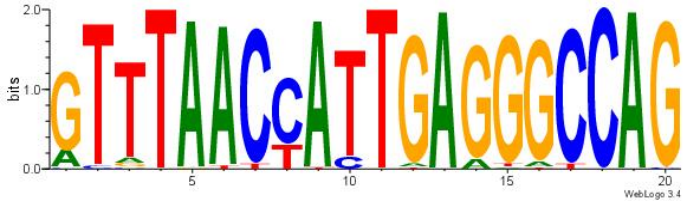

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140414

Alignment:

```
TCKMGCCACTGCACTCCAGC
GCTGGCCCKGGTGCTAAGC-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

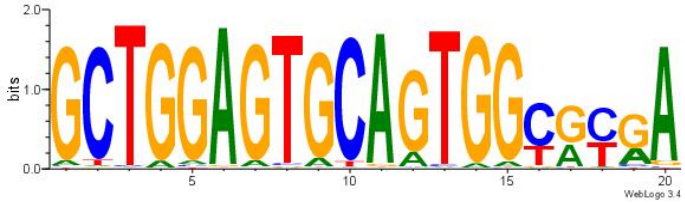

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

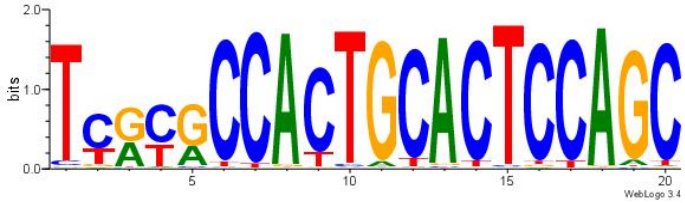

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140612

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-GCTGGCCCKGGTGCTAAGC
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

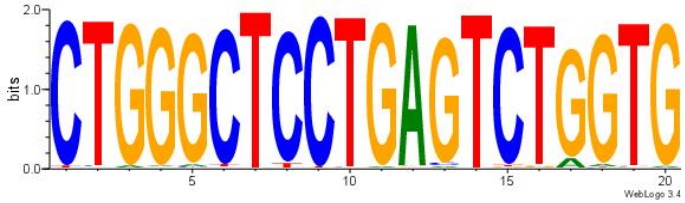

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

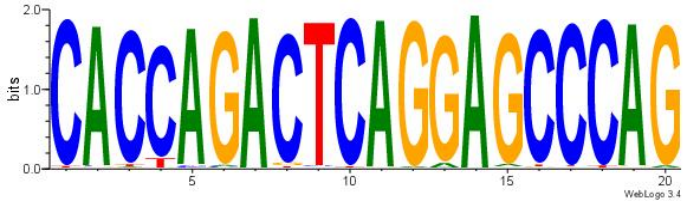

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.140774

Alignment:
CCCMKGGCACCCTCAGTCCT
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

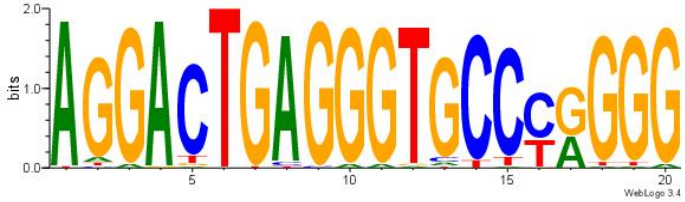

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

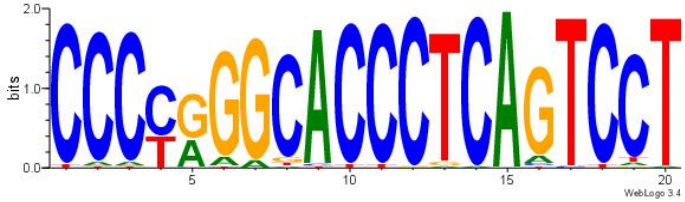

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.141008

Alignment:
AACAACASACACTGGGGCCT
-GCTTAGCACCYGGGCCAGC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

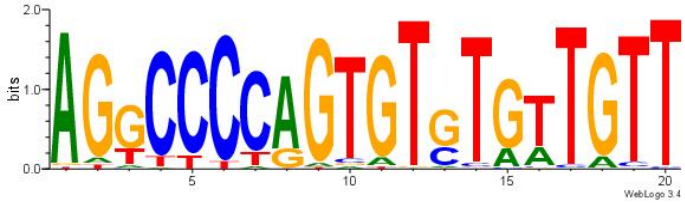

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

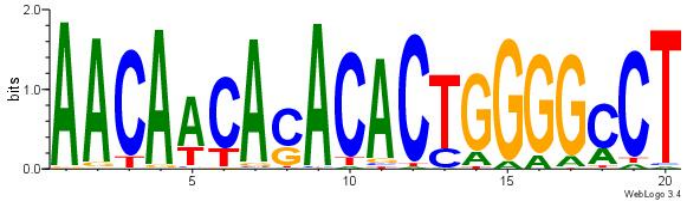

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143131

Alignment:

```
GGTGGGGGGGTCAGCCCCC
GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

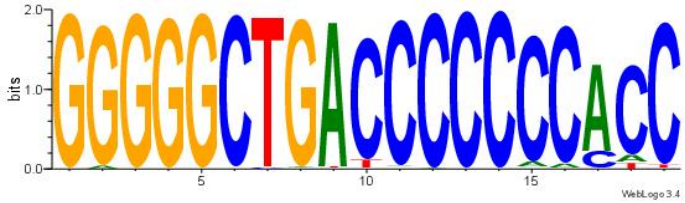

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

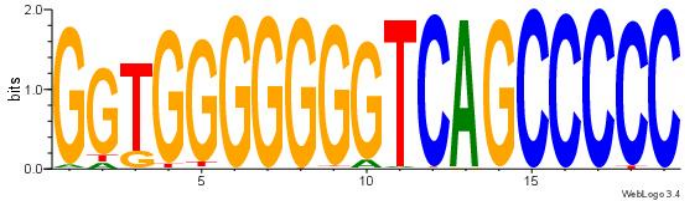

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143624

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-GCTGGCCCKGGTGCTAAGC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

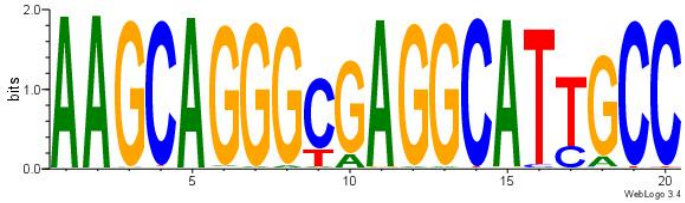

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

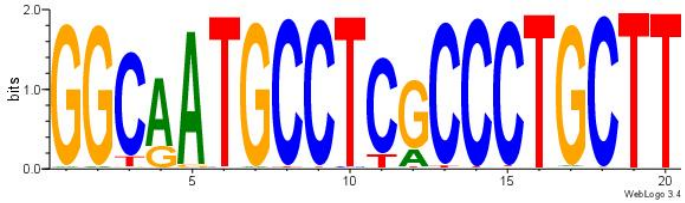

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.143919

Alignment:
CCCATGCAAGTCYRAAATCC
GCTTAGCACCYGGGCCAGC-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

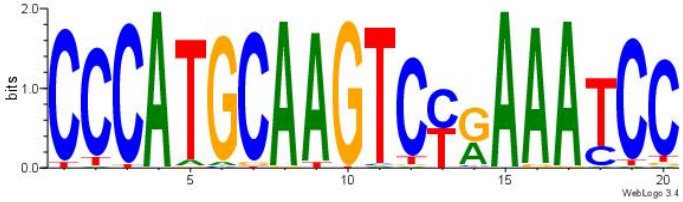

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

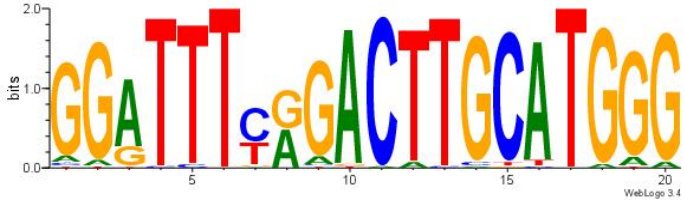

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.145179

Alignment:
CCACCACAGCTCAAGGAGGC
GCTTAGCACCYGGGCCAGC-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

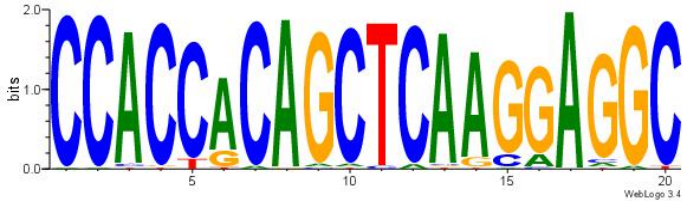

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

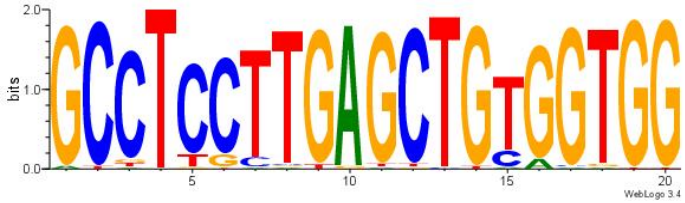

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145709

Alignment:

```
CCCACGCCCACCCGGAACT
GCTTAGCACCYGGGCCAGC
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

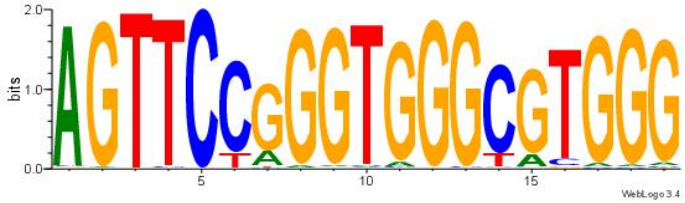

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

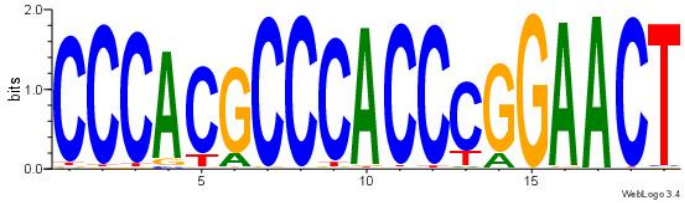

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146227

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCTGGCCCKGGTGCTAAGC-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

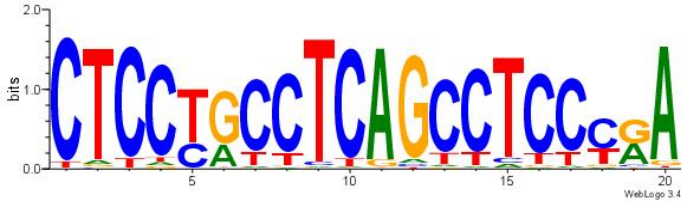

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

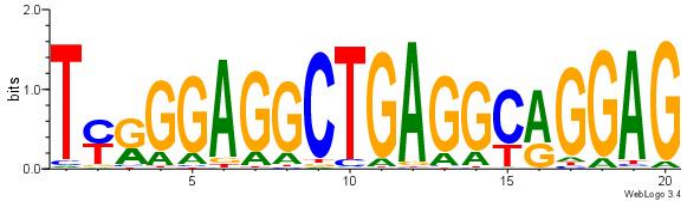

Dataset #: 1 Motif ID: 83 Motif name: Motif 83

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

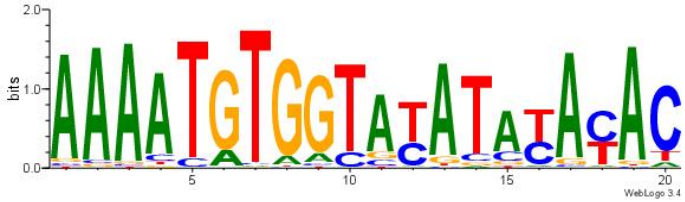

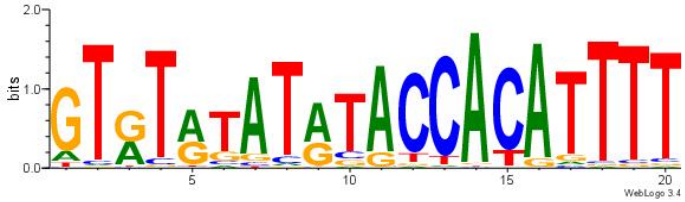

Best Matches for Motif ID 83 (Highest to Lowest)

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.100064

Alignment:

```
AGTAGGTGCTCARTAAATRB
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

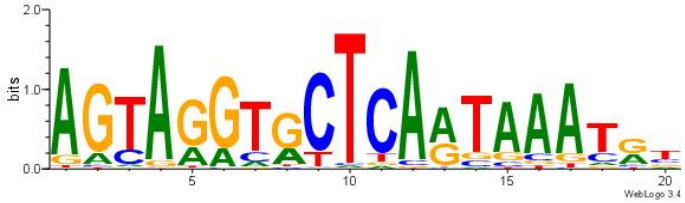

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

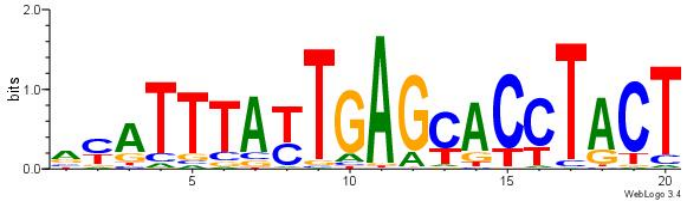

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110604

Alignment:

```
GTTATTAATTGGCCTAATTT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

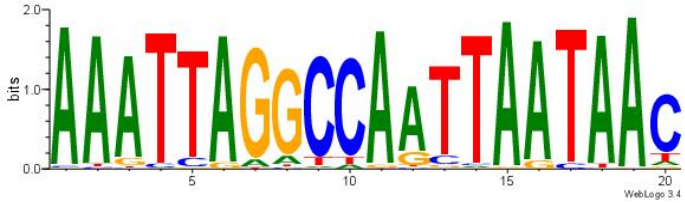

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.110608

Alignment:
GCACATGTAYCCYAGAACTT
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

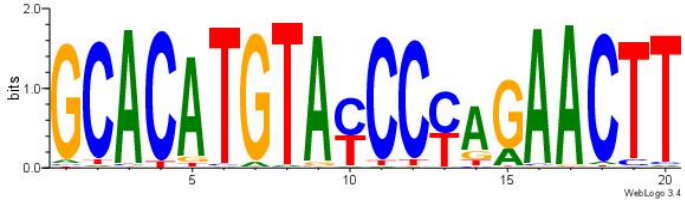

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

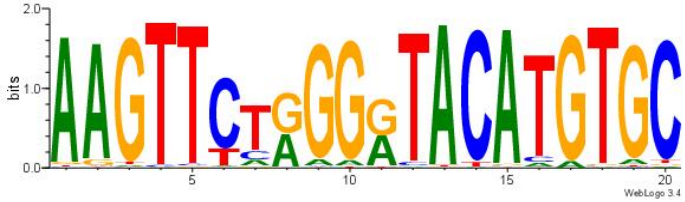

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.111201

Alignment:
AAAATCACAAGCATTCCTAT
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

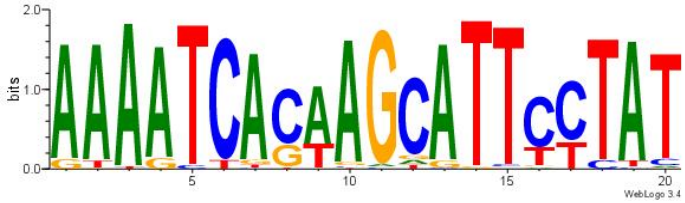

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

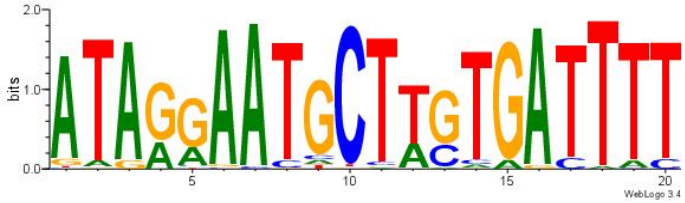

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120185

Alignment:

```
ACTGTCTTCCACCTCCACAT
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

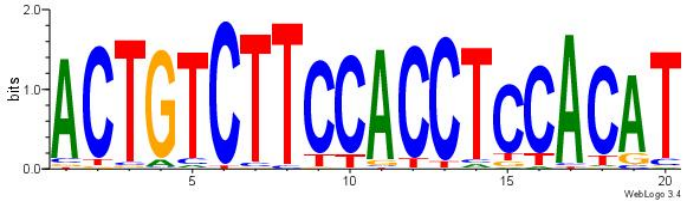

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

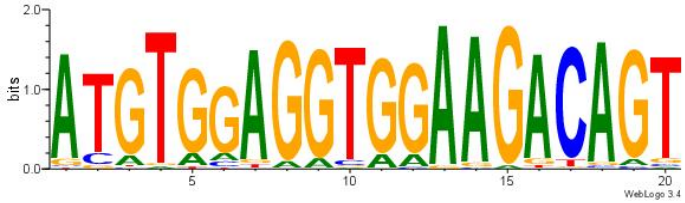

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122141

Alignment:
TTGTCCCACTGGAAGGTCTT
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

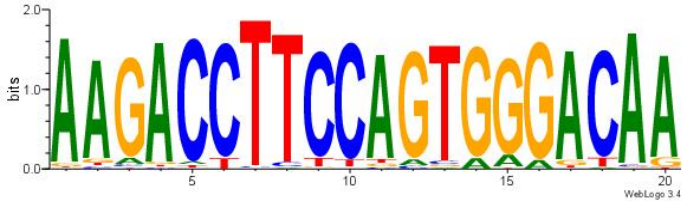

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

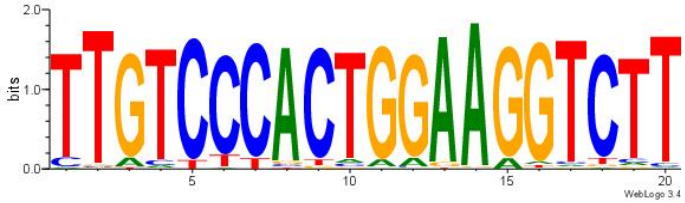

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.122234

Alignment:
TTTYTWTTTTTTYTWGAGAC
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

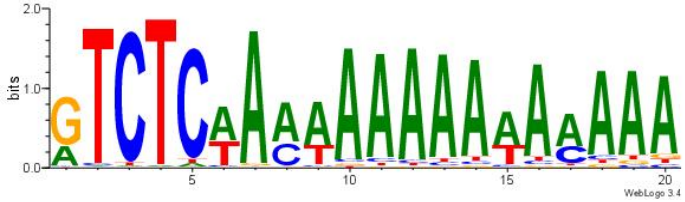

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

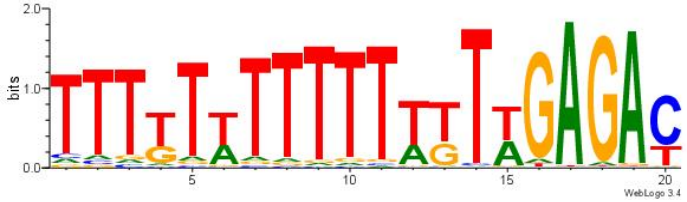

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.125226

Alignment:
GCCAATTTCTCCCATTTGGA
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

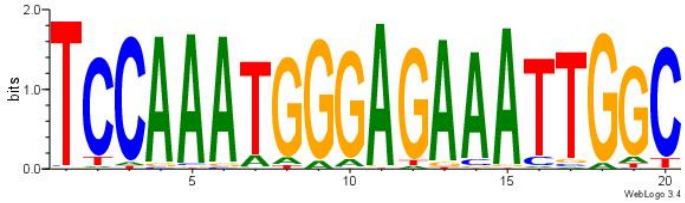

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

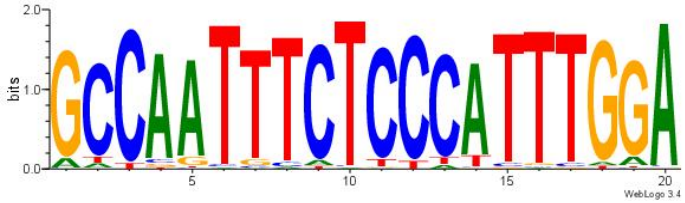

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12582

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

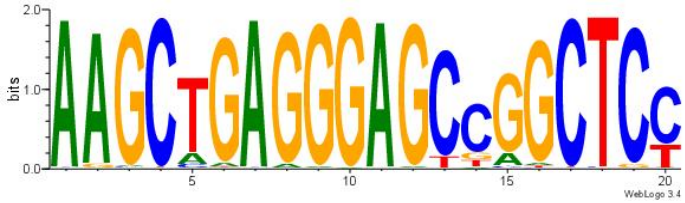

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

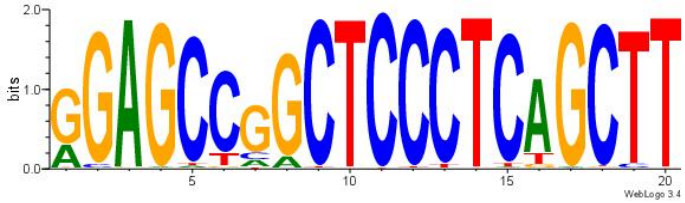

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126549

Alignment:

```
ATGTAACCAAAYACCACCTG
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

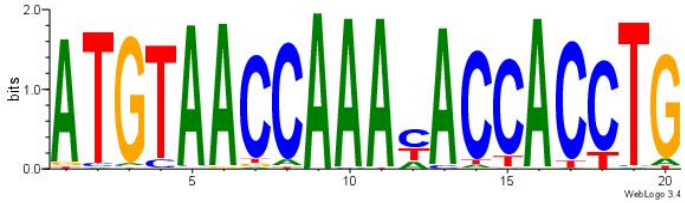

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

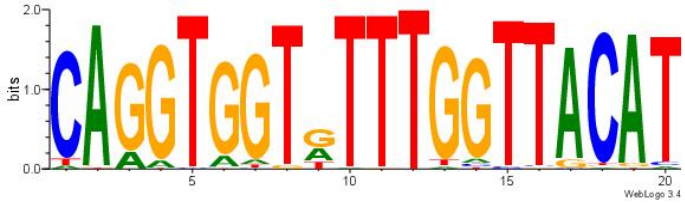

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.12764

Alignment:
GAAHCAACCKAAKTGTCCAT
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

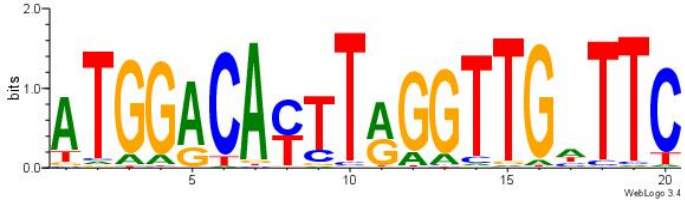

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

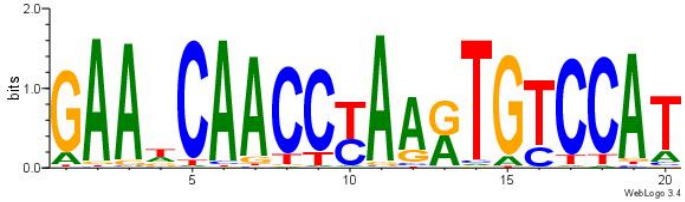

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.127709

Alignment:
AGCCYCTGGYAACCAYYAWT
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

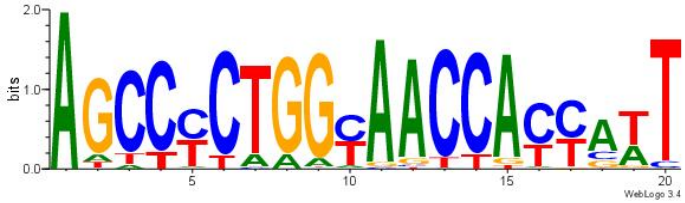

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

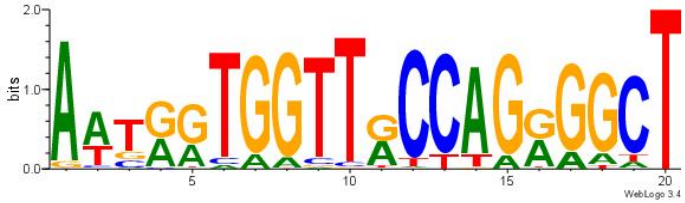

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128412

Alignment:

```
CTTGCCCAAGGTCACACAGC
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

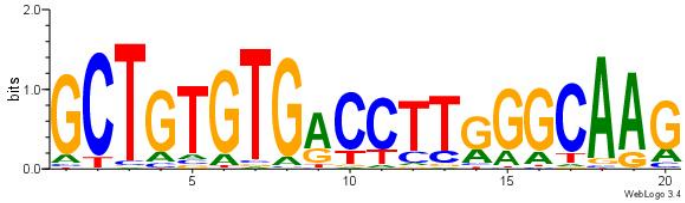

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

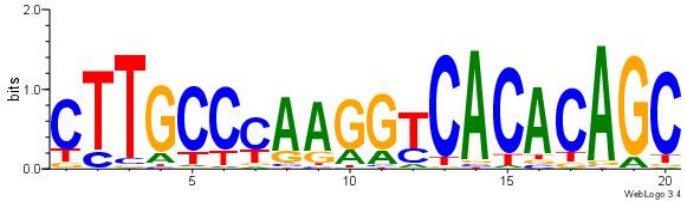

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129759

Alignment:

```
CTCCAGKTMCATCCATGTTG
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

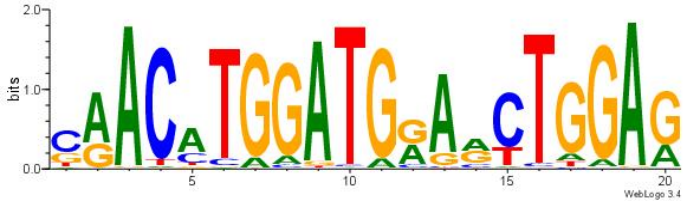

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

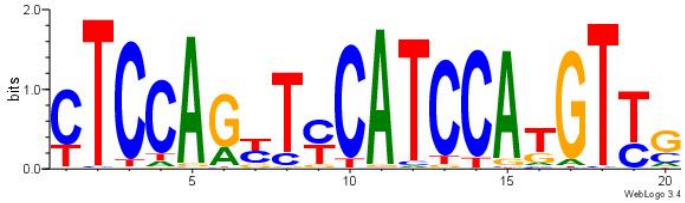

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.132365

Alignment:
ATGATCCAGCAATYCCACTH
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

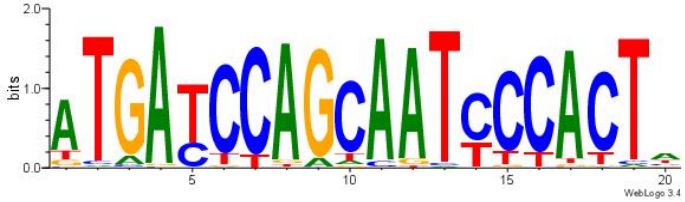

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

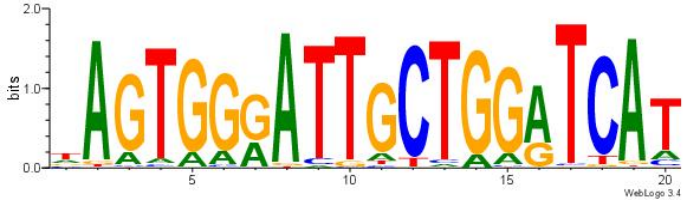

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133812

Alignment:
ATGGAATAYTATTCAGCCAT
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

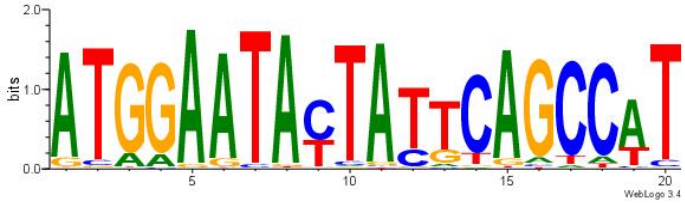

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

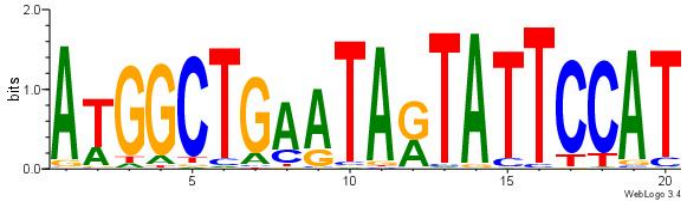

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13431

Alignment:

```
GACAGGAGATTAACACTGAG
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

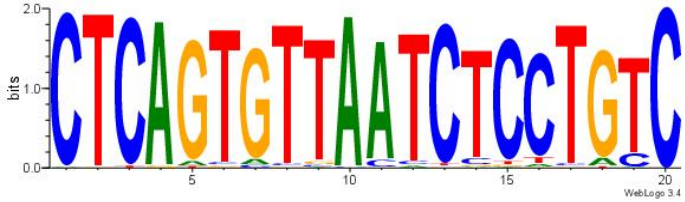

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

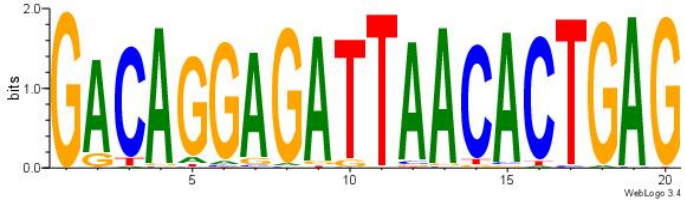

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134626

Alignment:

```
AAGTCCAAGATCAAGGTGYY
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

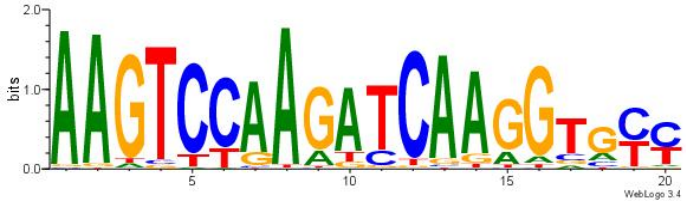

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

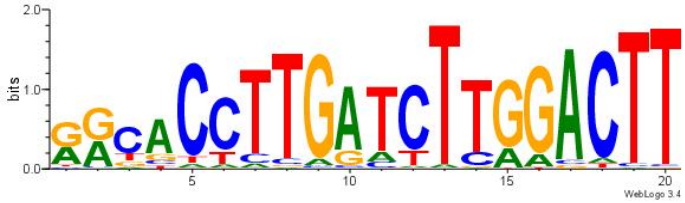

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.136116

Alignment:
GTGGCCCTCTTCTCACAGCT
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

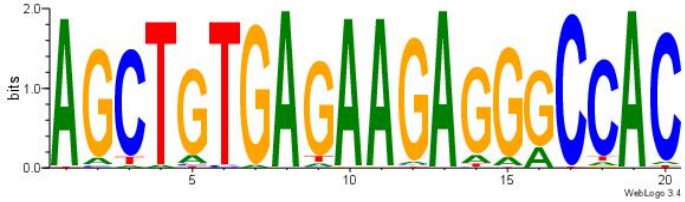

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

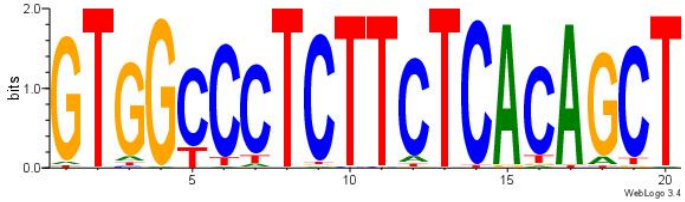

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136176

Alignment:
ATCRCTTGAGSYCAGGAGKT
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

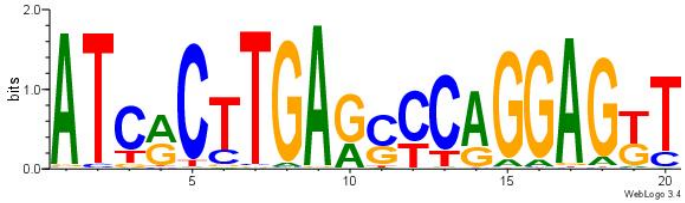

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

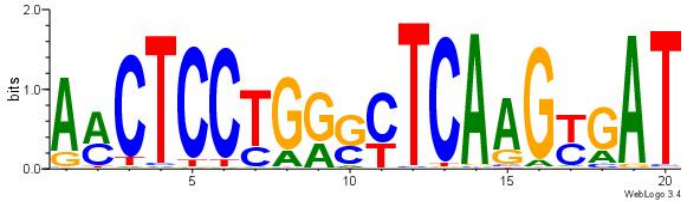

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138183

Alignment:

```
AAGGAACAAACTCCRGACAC
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

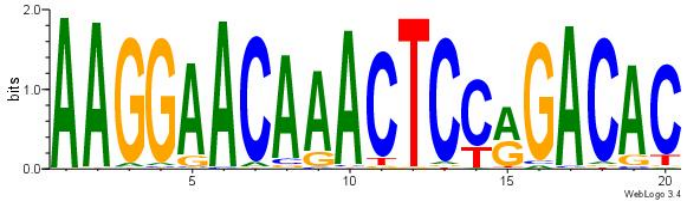

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

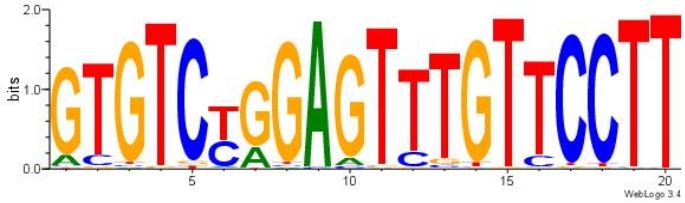

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14025

Alignment:

```
CCTGCCATTGCYSAGGCTTG
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

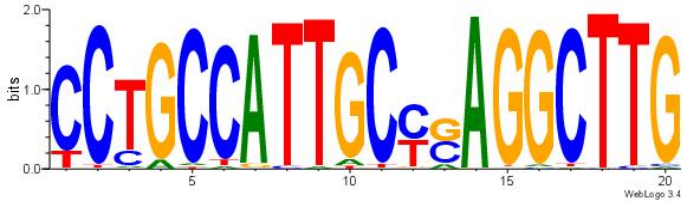

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

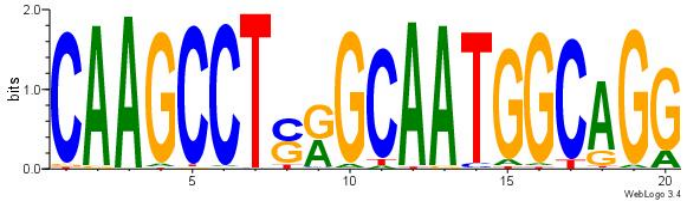

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.140415

Alignment:
AATGAKATCATGTCYTTTGC
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

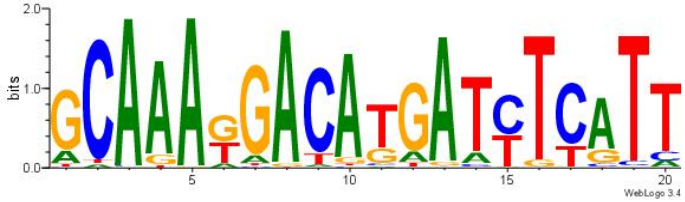

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

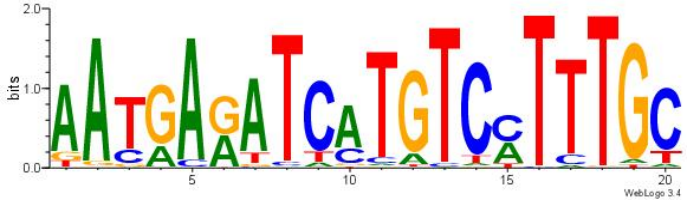

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141384

Alignment:
CAGCTACTCKTATACCCTTG
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

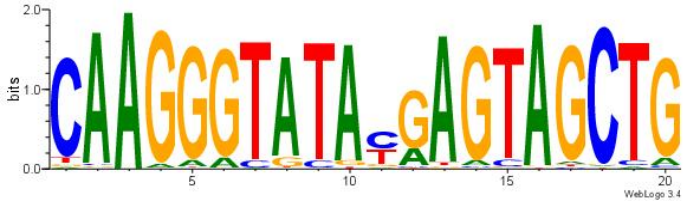

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

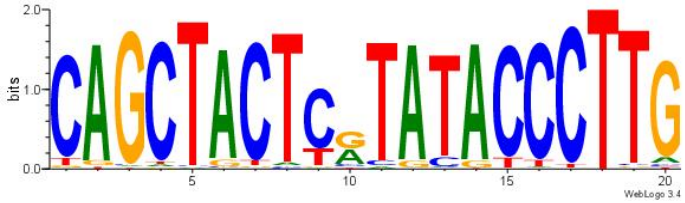

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141919

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

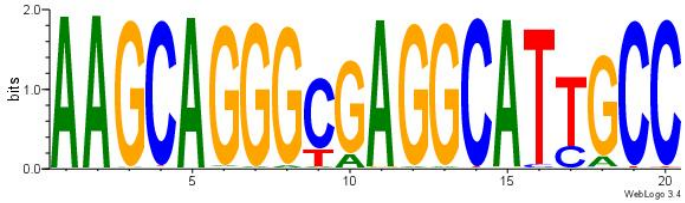

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

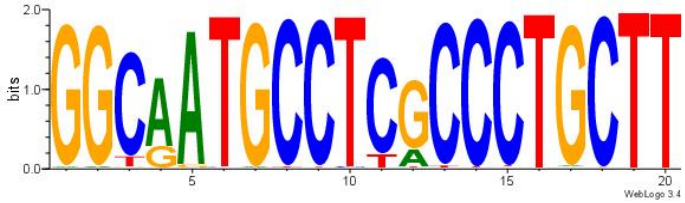

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142565

Alignment:
MGGGATATAATCTCCTGGTG
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

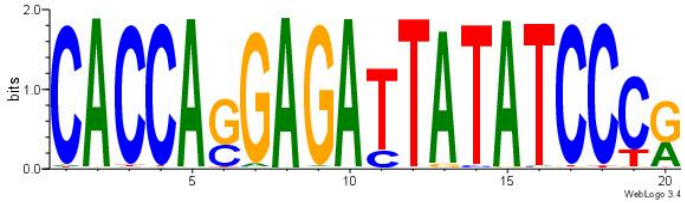

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

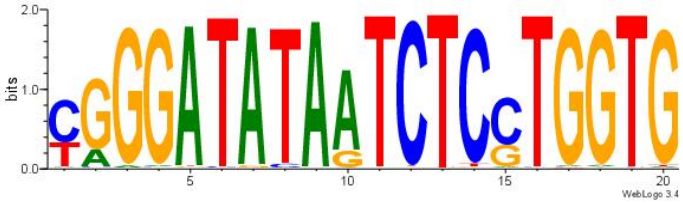

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.143168

Alignment:
ATTGATMKCCAGGGTTGATT
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

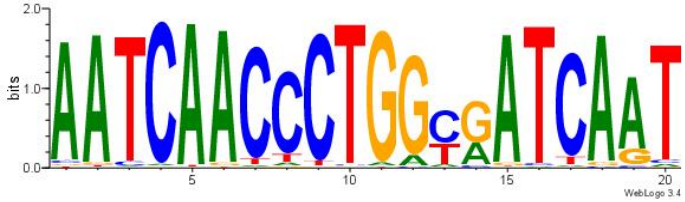

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

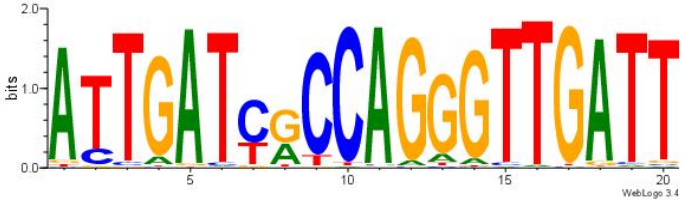

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143453

Alignment:
ATTGGTGTATTTACAATCCC
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

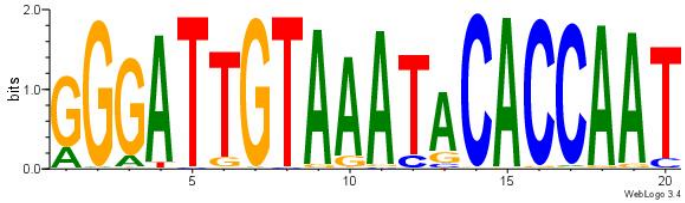

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143614

Alignment:

```
TAGATAATAGCTCCAGCTTT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

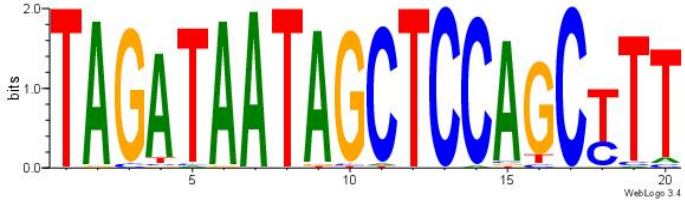

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

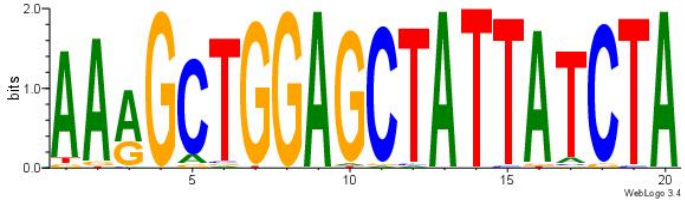

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144965

Alignment:
GAAAGGGAACTCCCTGACCC
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

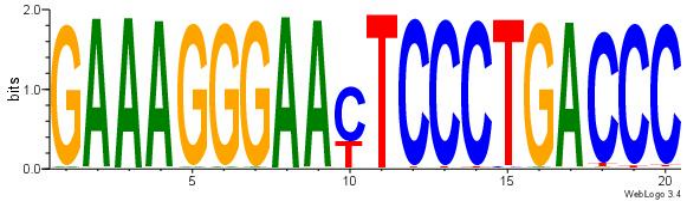

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

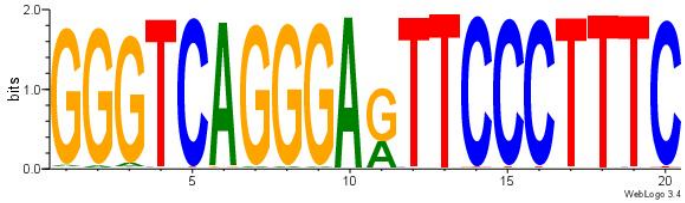

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.145011

Alignment:
AAATTACCCAGTCTCAGGTA
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

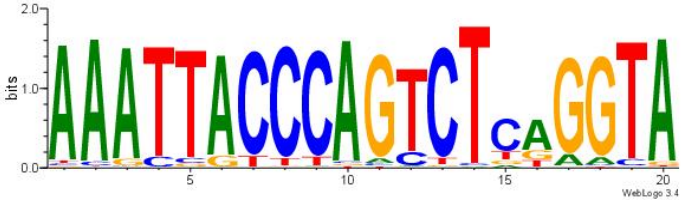

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

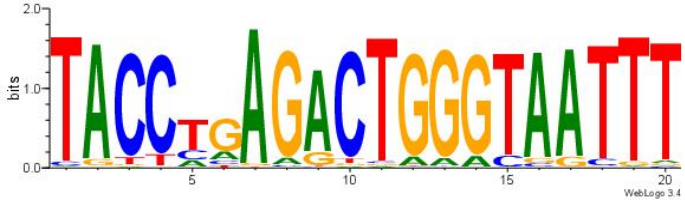

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14545

Alignment:
GGGAGGTGTCTCCCAGTCAG
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

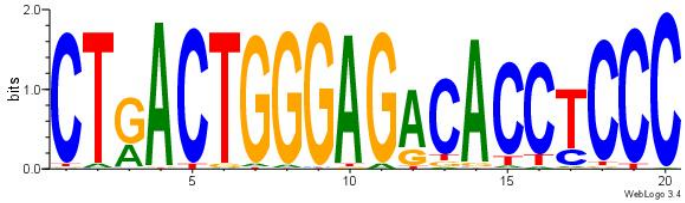

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

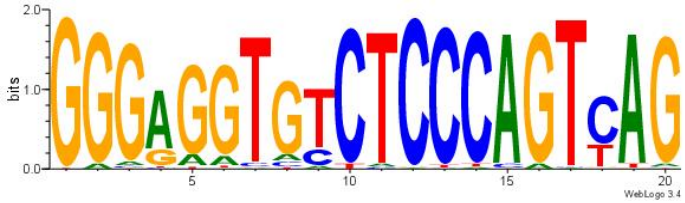

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146422

Alignment:

```
ACTTTGGACTGTGGACTTTT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

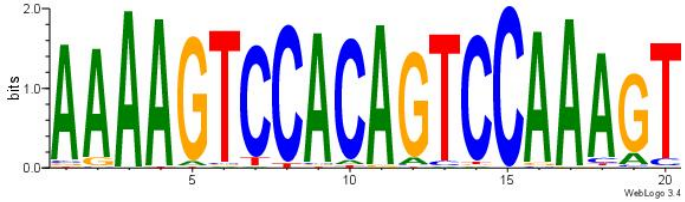

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

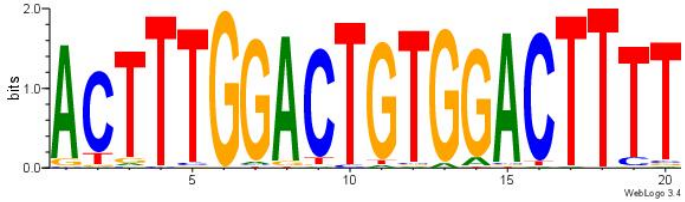

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147722

Alignment:

```
AAAMAMMKMATGTTCTCACT
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

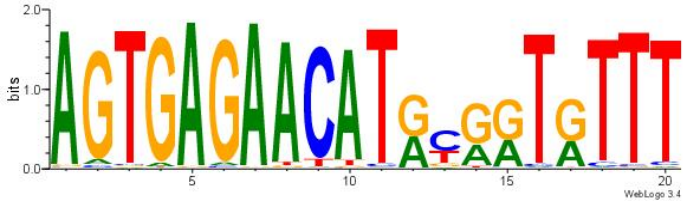

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

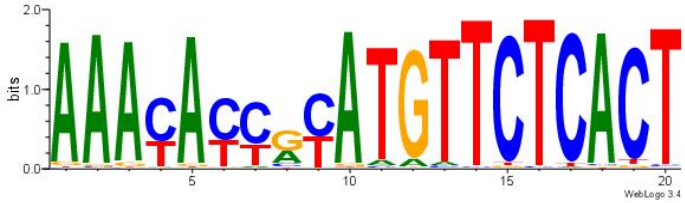

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.148373

Alignment:
GGATTTMKGACTTGCATGGG
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

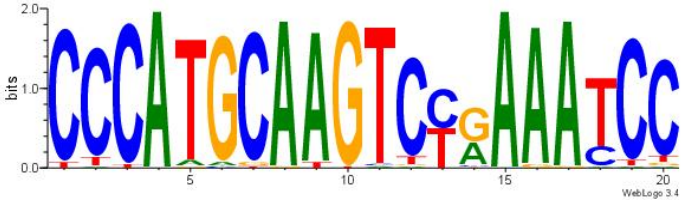

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

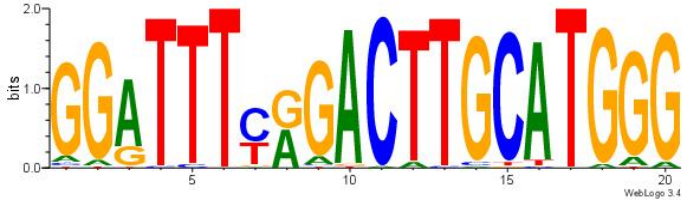

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148505

Alignment:
AACAACASACACTGGGGCCT
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

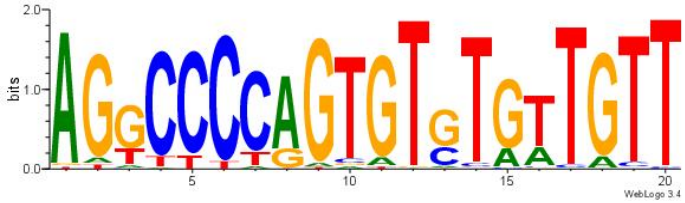

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

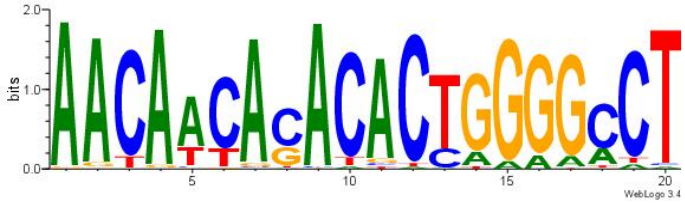

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148746

Alignment:

```
GTAACACTCACCGCGARGGT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

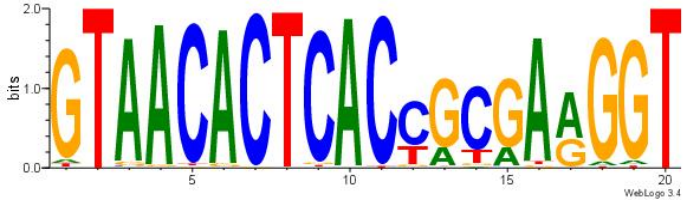

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

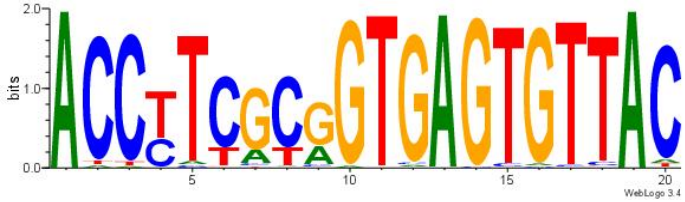

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148907

Alignment:
GAATACCTCCTGAAGGACCT
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

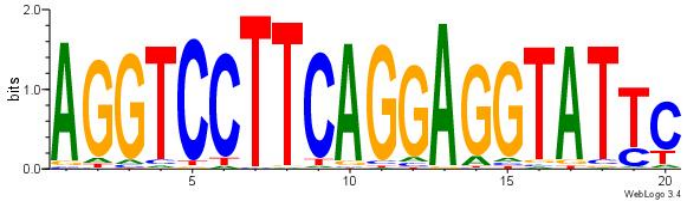

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

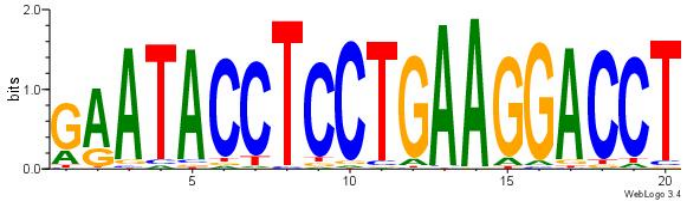

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.149621

Alignment:
GCCTCTCCCTCCACACCTCC
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

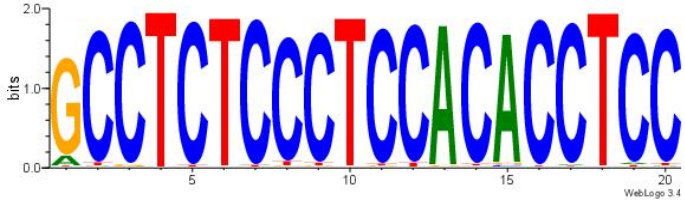

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

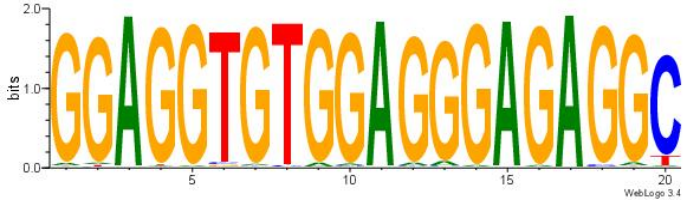

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150831

Alignment:
CGAGCCTCCCCGAYGAGCGC
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

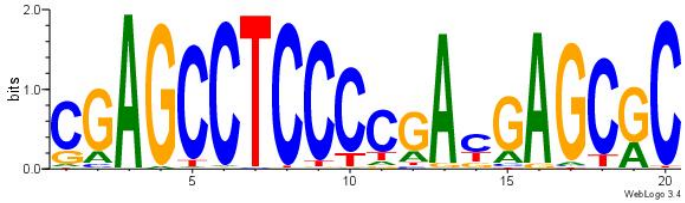

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

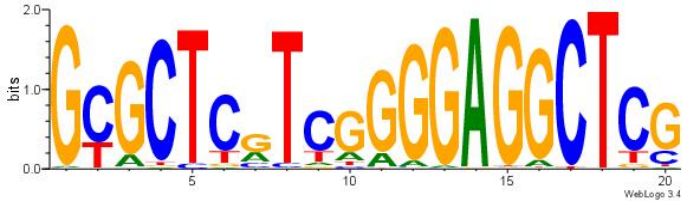

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150921

Alignment:

```
ACACATCACAAAGCAGTTTC
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

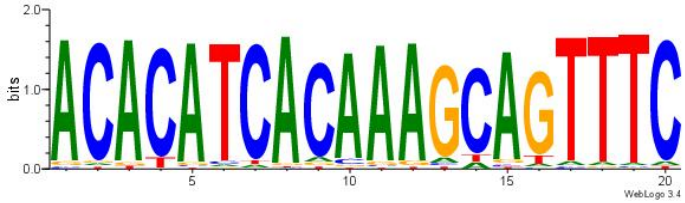

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

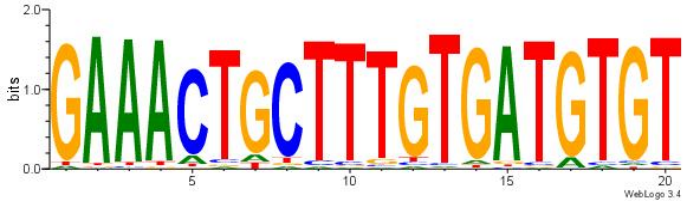

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151444

Alignment:
TGGAGAACCTTTATGTCTAG
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

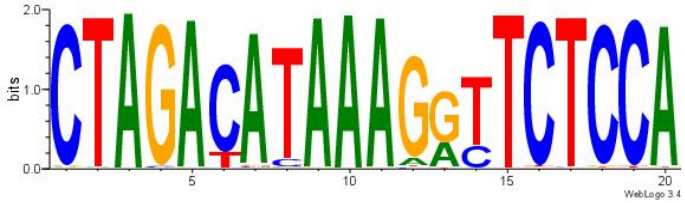

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

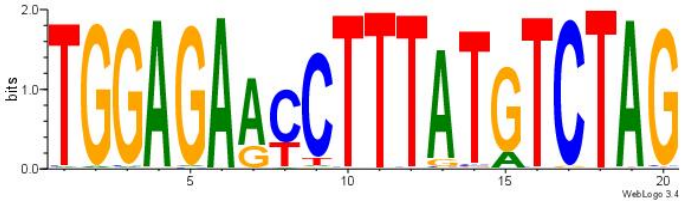

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.151788

Alignment:
TWTACCTATGTAACAAACCT
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

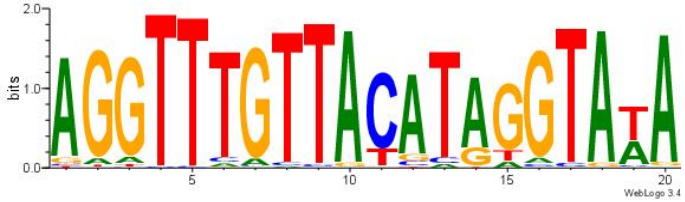

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

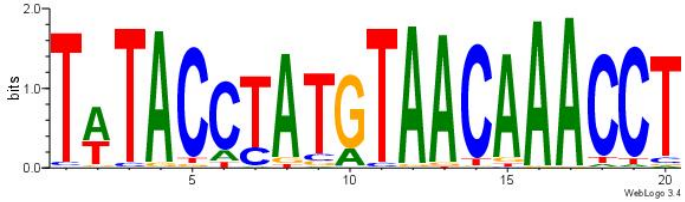

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152449

Alignment:
TAATTTTATGTGTCAACTTG
GTKTMTATMTACCACATTTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

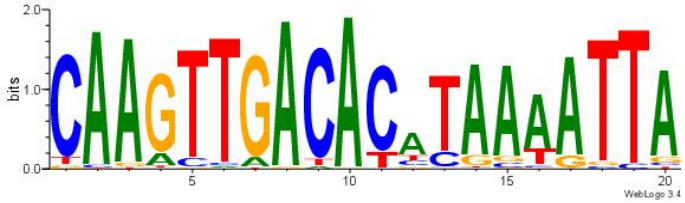

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

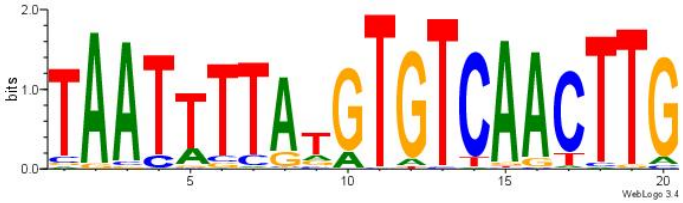

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154919

Alignment:

```
CGGCGCTGMGCTCGATTTCT
GTKTMTATMTACCACATTTT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

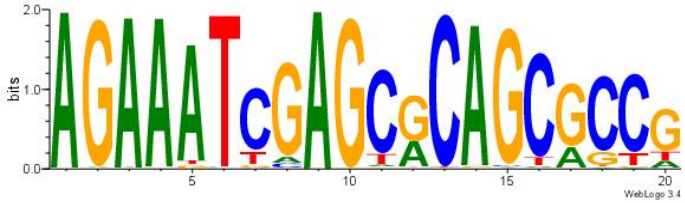

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

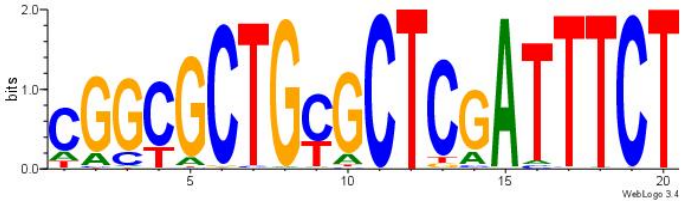

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155378

Alignment:

```
ACTCCCTAGTGAGATGAACC
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

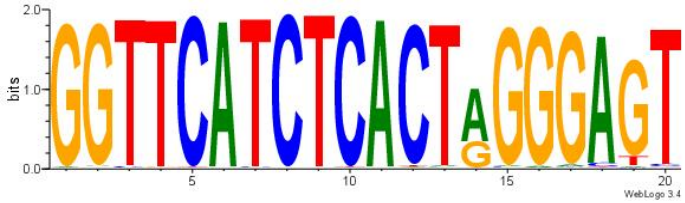

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

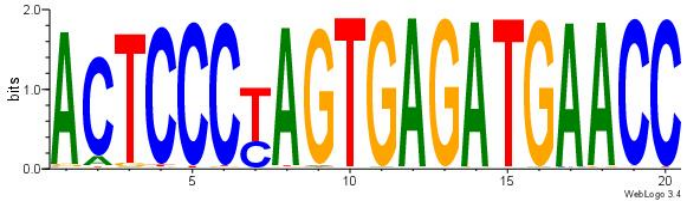

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.156439

Alignment:
GAAGGCAGCTAAGGCCCGGY
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

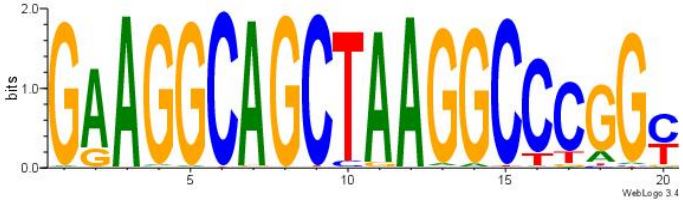

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

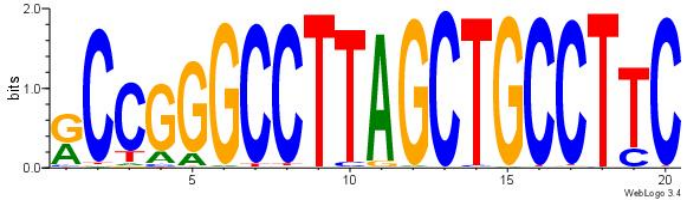

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157301

Alignment:
CCACCACAGCTCAAGGAGGC
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

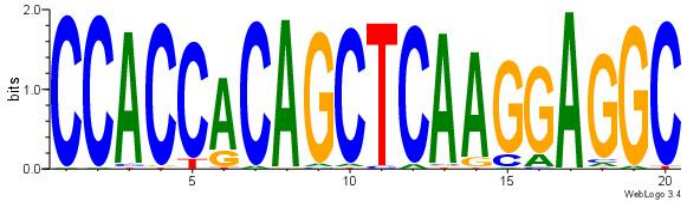

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

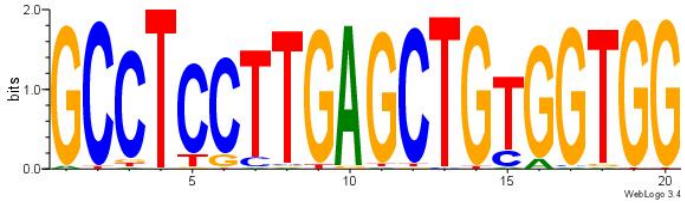

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157715

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
AAAATGTGGTAYATAYAYAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

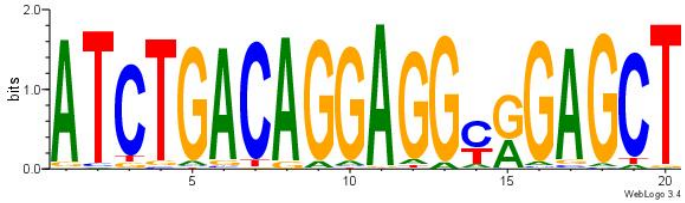

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

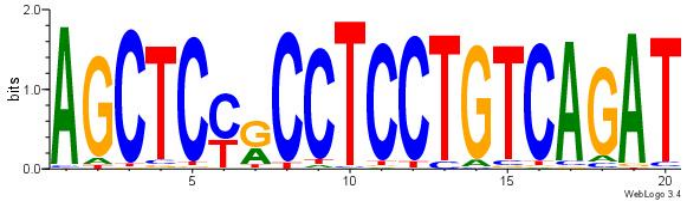

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158121

Alignment:
TCTCTCTCTCTCTCTCTCTC
AAAATGTGGTAYATAYAYAC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

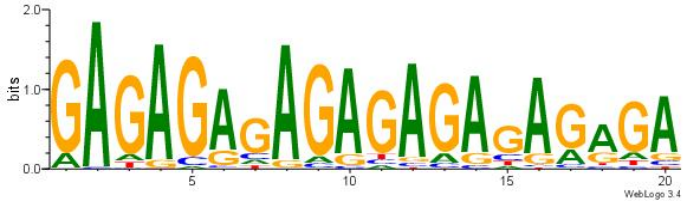

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

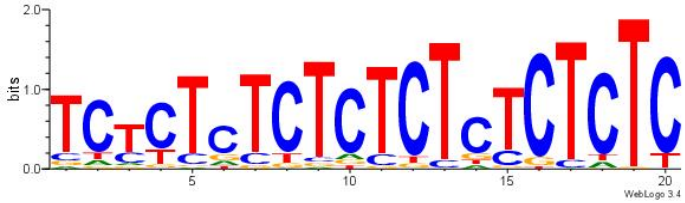

Dataset #: 1 Motif ID: 84 Motif name: Motif 84

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

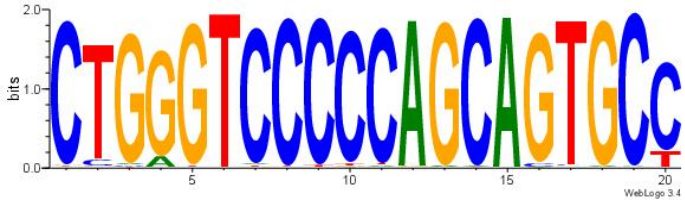

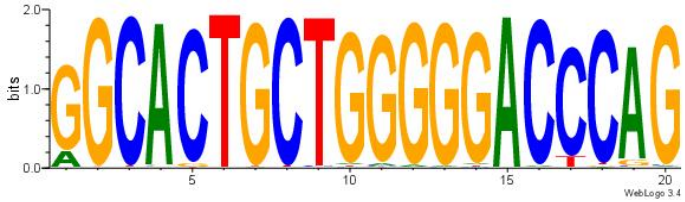

Best Matches for Motif ID 84 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.106094

Alignment:

```
TGGCTTCACCCAGTGGATCC
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

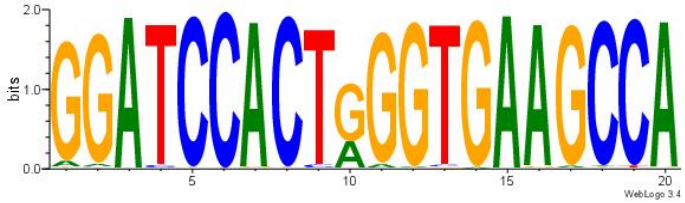

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

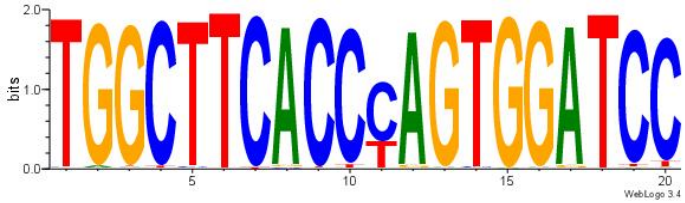

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.107291

Alignment:
CTGGGCRACAGAGYRAGACY
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

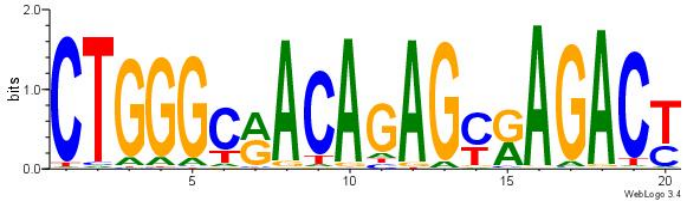

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

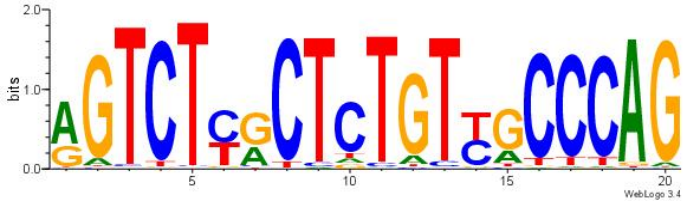

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.113605

Alignment:
CACCAGACTCAGGAGCCCAG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

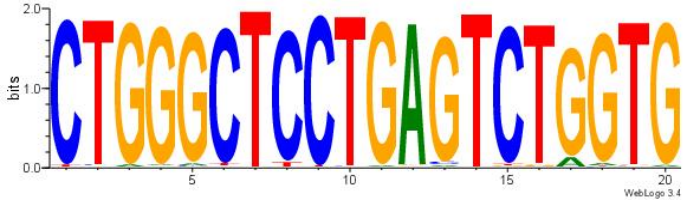

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

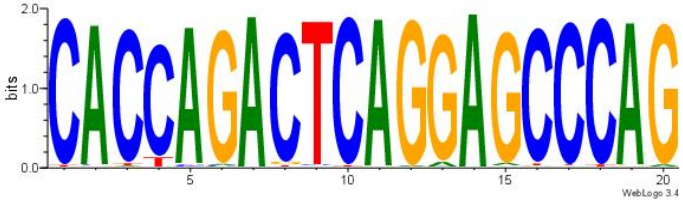

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.113686

Alignment:
GCTGGCCCGCAAGCGCCGCG
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

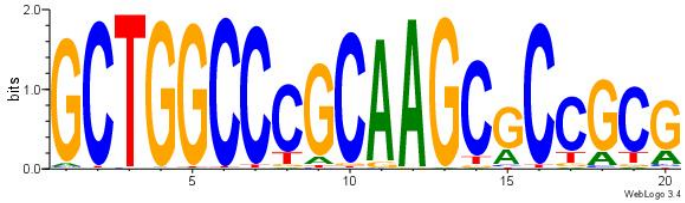

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

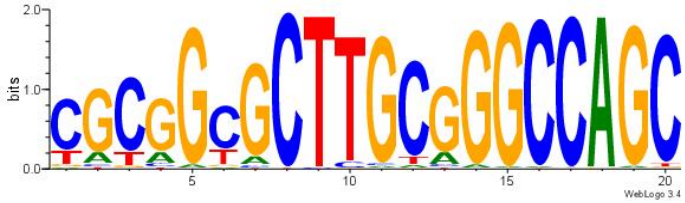

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115597

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

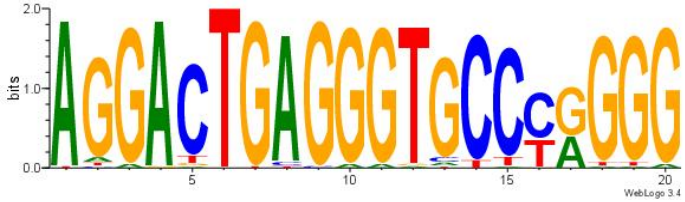

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

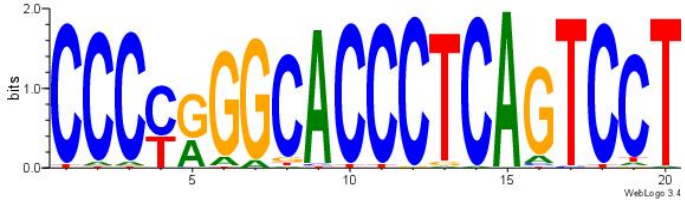

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118278

Alignment:
ACACATCACAAAGCAGTTTC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

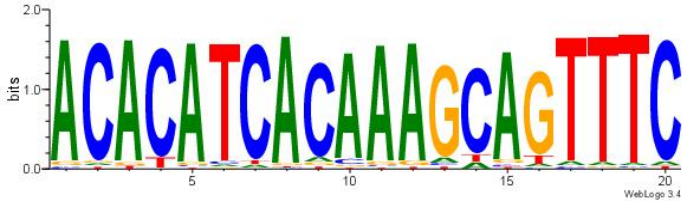

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

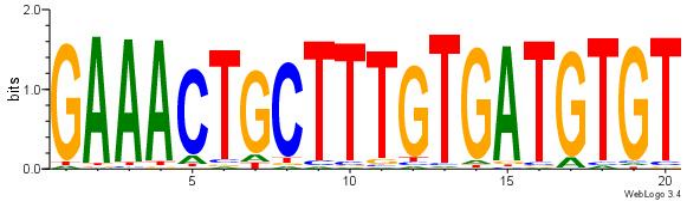

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.124362

Alignment:
ATTGGTGTATTTACAATCCC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

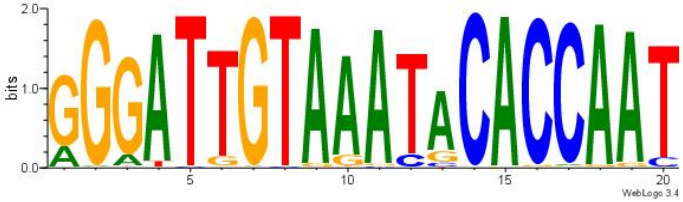

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.125085

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

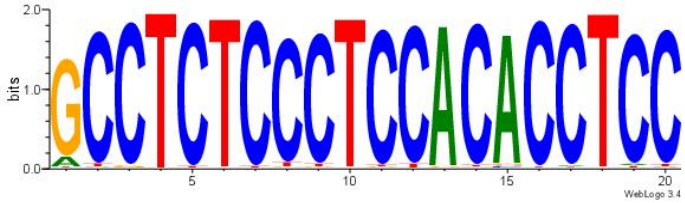

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

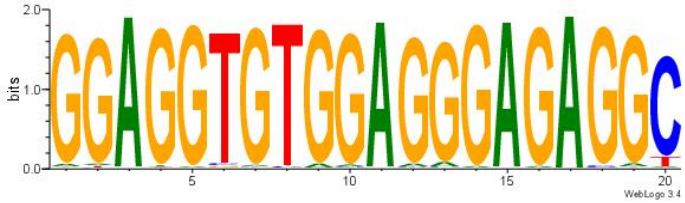

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127821

Alignment:

```
GTGGCCCTCTTCTCACAGCT
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

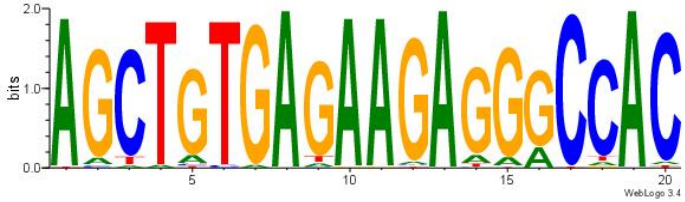

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

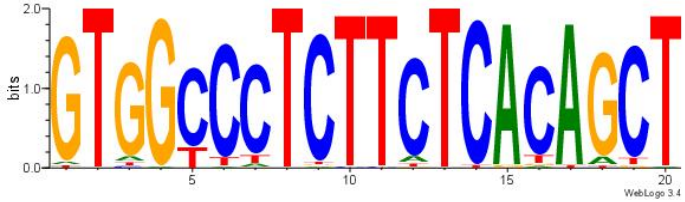

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130105

Alignment:
TTGGTAGGATCCGTGATGCC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

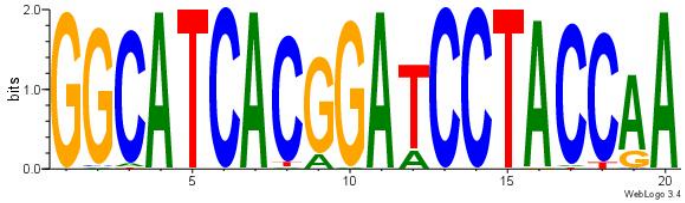

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

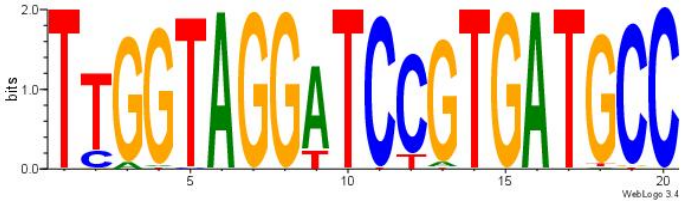

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.132113

Alignment:
GGCAATGCCTCGCCCTGCTT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

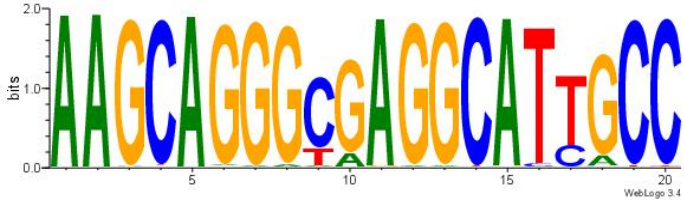

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

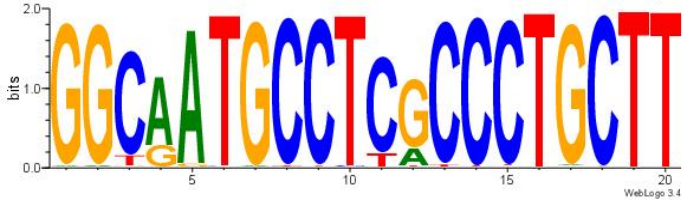

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.136662

Alignment:
ATCTGACAGGAGGYRGAGCT
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

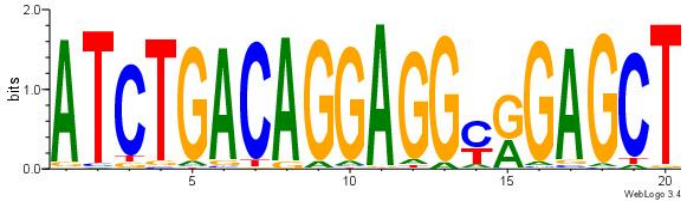

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

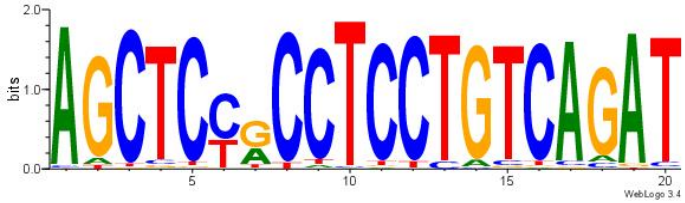

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136972

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
GGCACTGCTGGGGGACCCAG
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

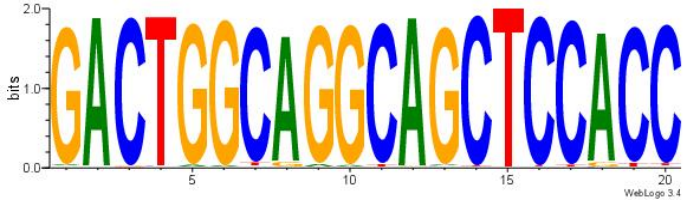

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

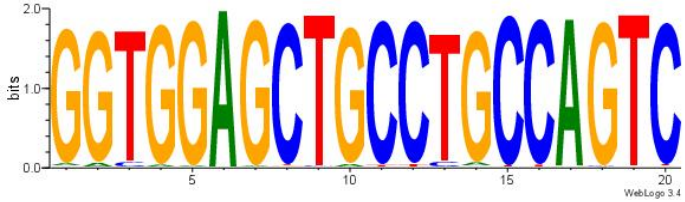

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140529

Alignment:
AGAAATCGAGCRCAGCGCCG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

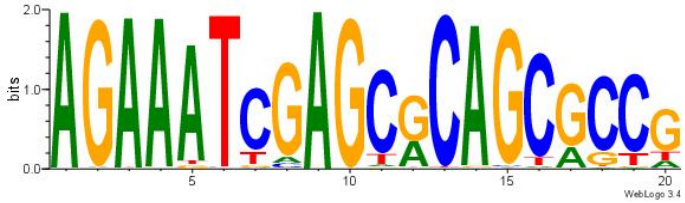

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

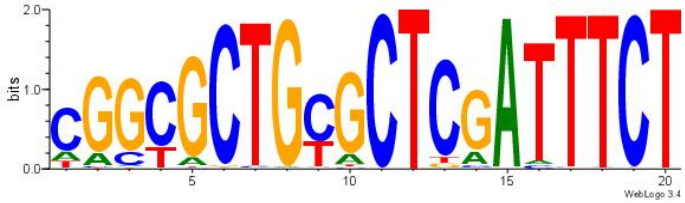

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.140736

Alignment:
GTTTAACCATTGAGGGCCAG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

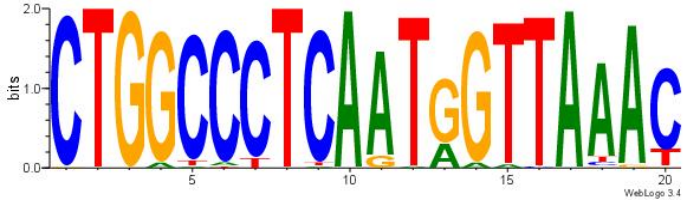

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

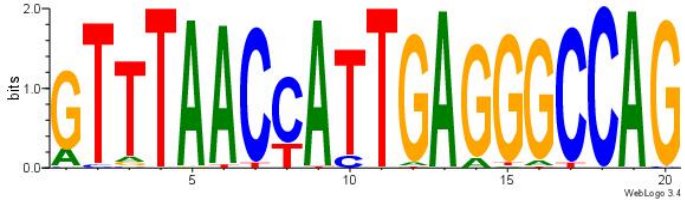

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142713

Alignment:
CRTGAGCCACYGYRCCYGGC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

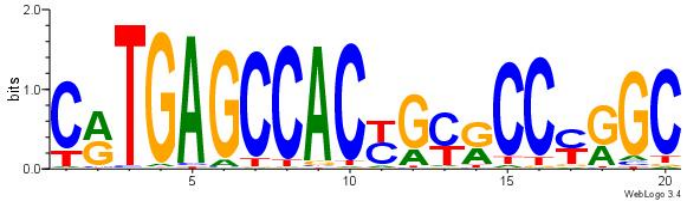

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

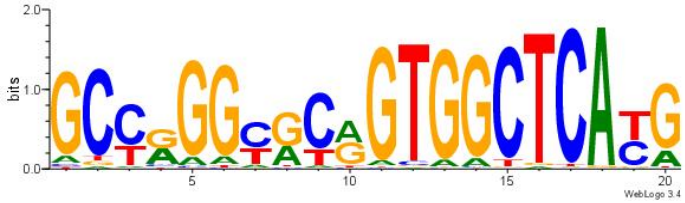

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143404

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
GGCACTGCTGGGGGACCCAG
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

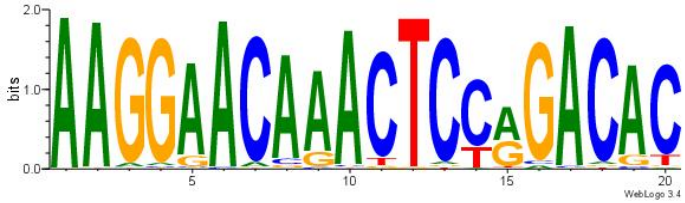

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

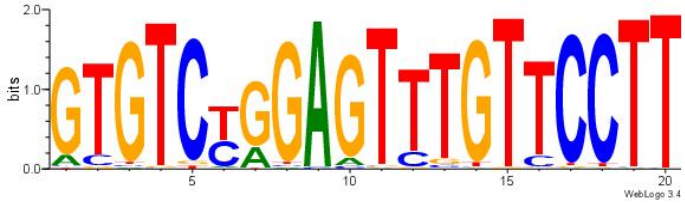

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143637

Alignment:
CTGACTGGGAGACACCTCCC
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

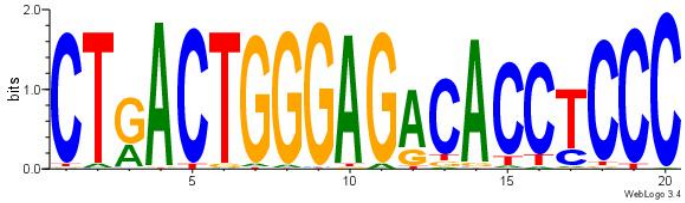

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

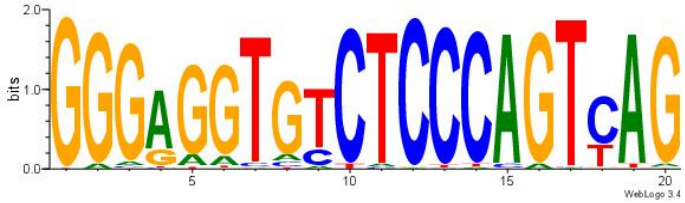

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.144198

Alignment:
ATGGACAYTTRGGTTGHTTC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

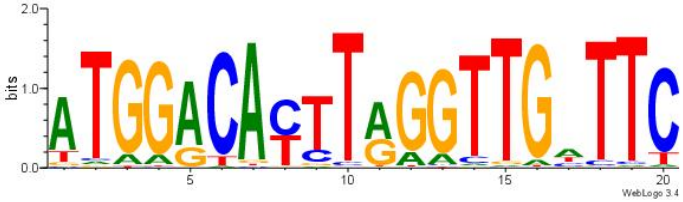

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

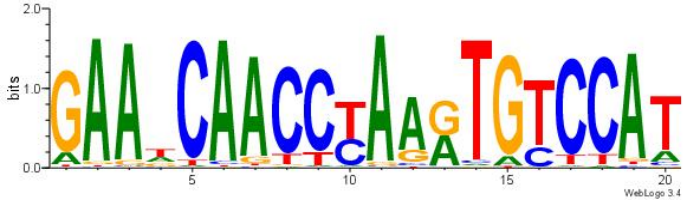

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146425

Alignment:
CGAGCCTCCCCGAYGAGCGC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

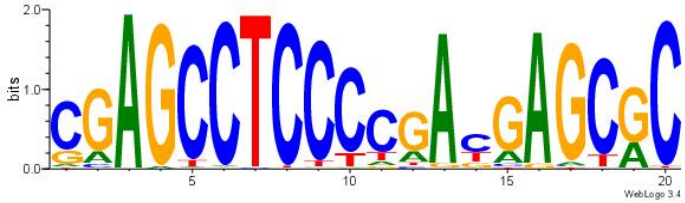

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

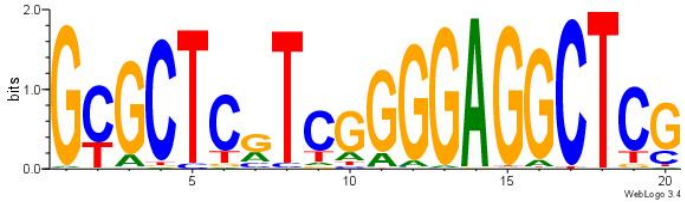

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146978

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

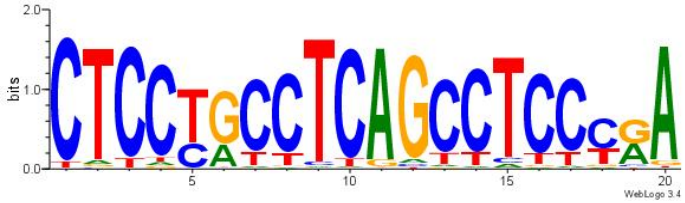

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

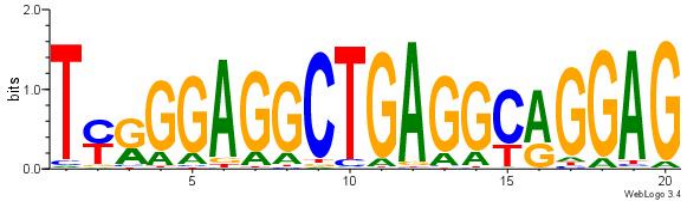

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147178

Alignment:
CCCGAAGCTGCRYRCTCGGT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

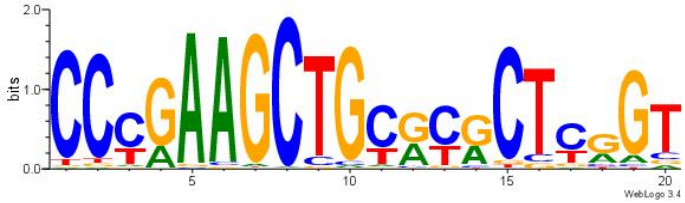

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

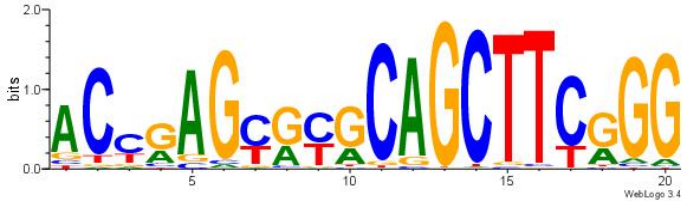

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.147644

Alignment:
CTCAGTGTTAATCTCCTGTC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

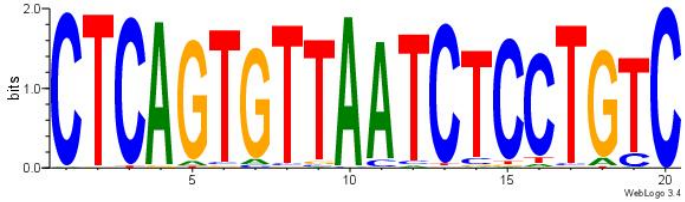

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

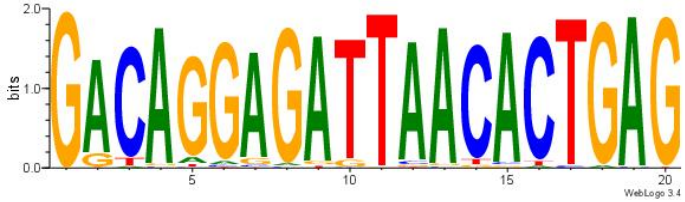

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149035

Alignment:
GTAACACTCACCGCGARGGT
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

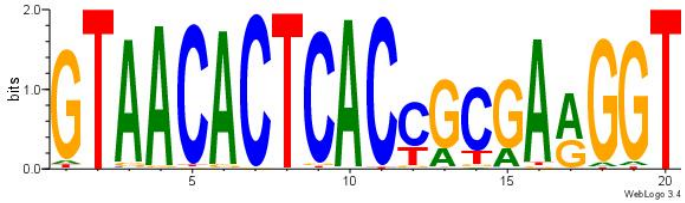

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

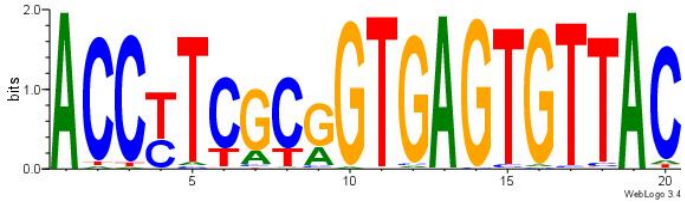

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149565

Alignment:

```
CCGCTGCACTGTGGGAGCCC
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

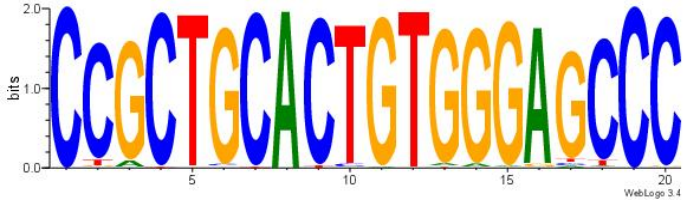

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

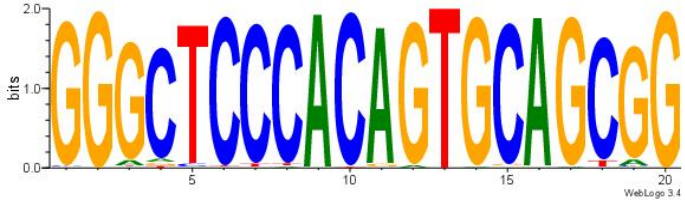

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150152

Alignment:

```
ATGGAATAYTATTCAGCCAT
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

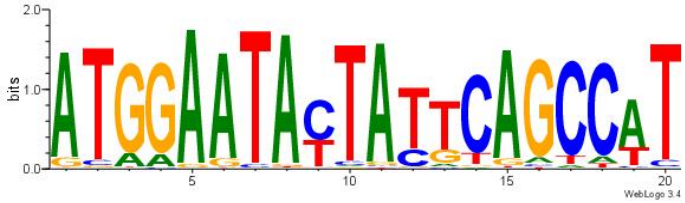

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

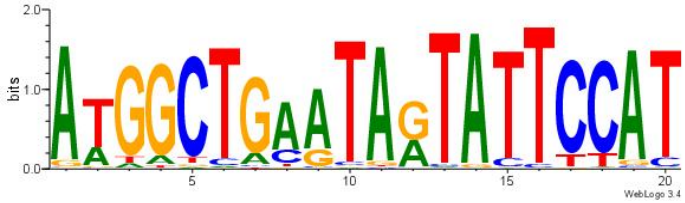

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.150651

Alignment:
TAATTTTATGTGTCAACTTG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

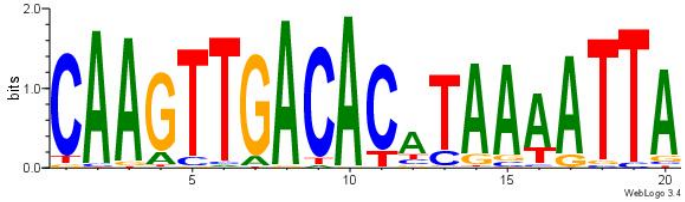

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

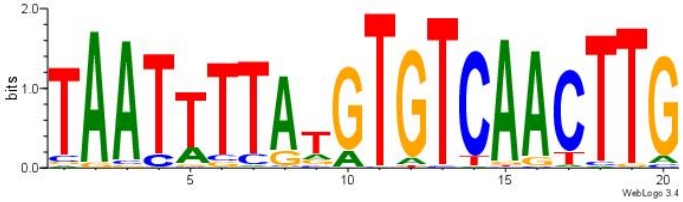

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151516

Alignment:
AGCTCCCAGCGTGAGCGACG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

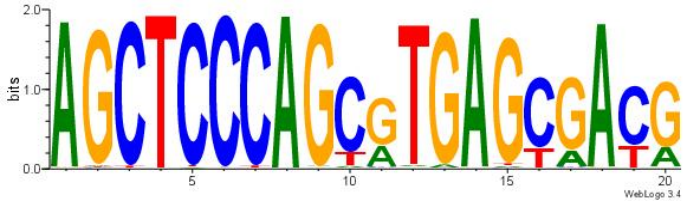

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

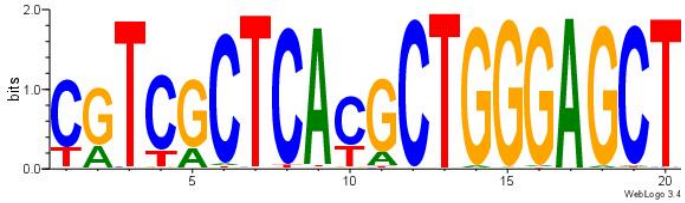

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15176

Alignment:

```
CAACATGGATGRARCTGGAG
GGCACTGCTGGGGGACCCAG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

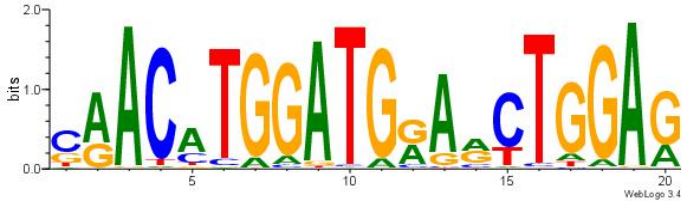

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

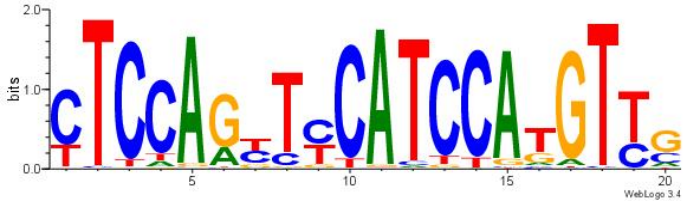

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152526

Alignment:
GAAGGCAGCTAAGGCCCGGY
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

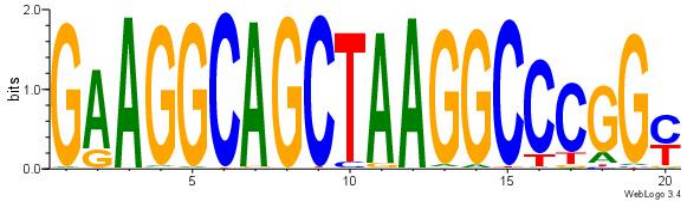

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

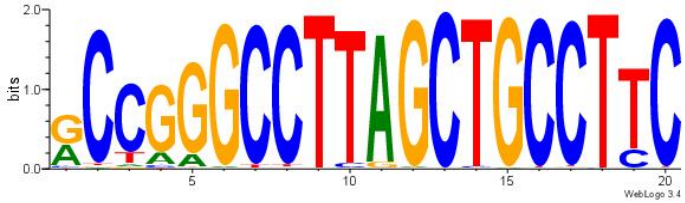

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.15405

Alignment:
GCCAGTCACAAAARGACAMA
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

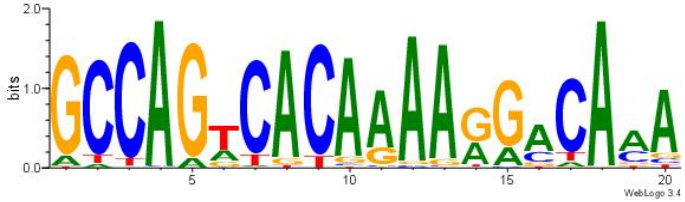

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

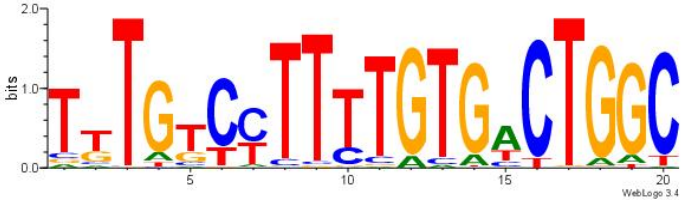

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154643

Alignment:
AGAGCCAAATCATGARTGAA
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

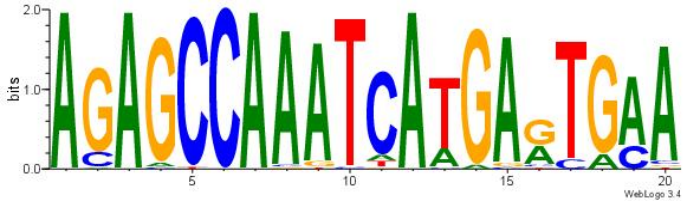

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

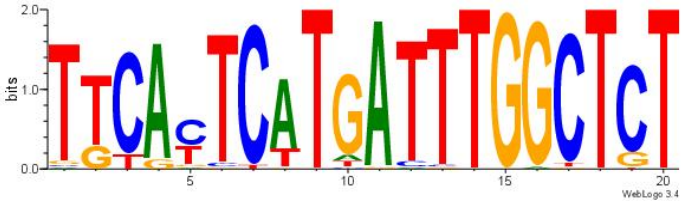

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155633

Alignment:

```
ATTGATMKCCAGGGTTGATT
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

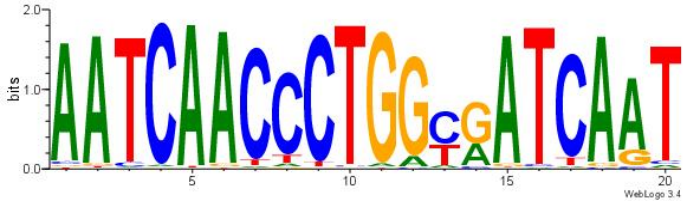

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

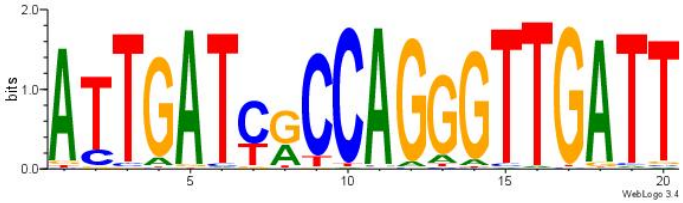

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156049

Alignment:
GTGCCAGGCACTGTKCTARG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

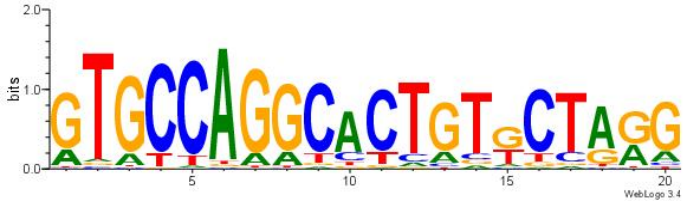

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

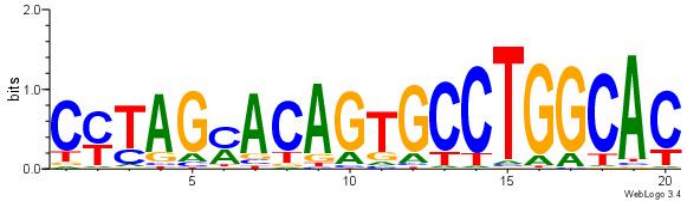

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.156204

Alignment:
TWTACCTATGTAACAAACCT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

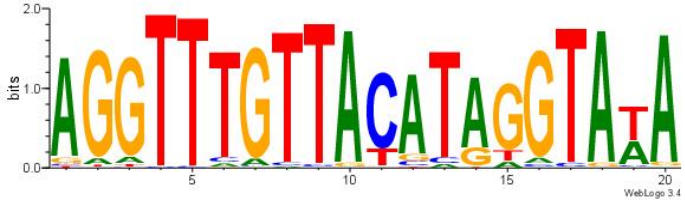

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

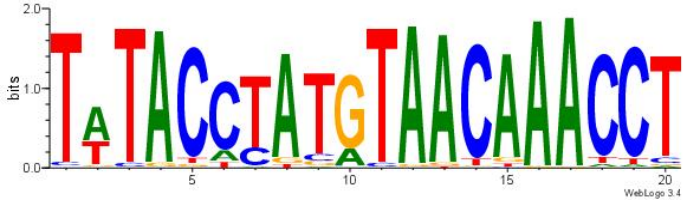

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156657

Alignment:
MTCCTCCAGACCCCAGAATG
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

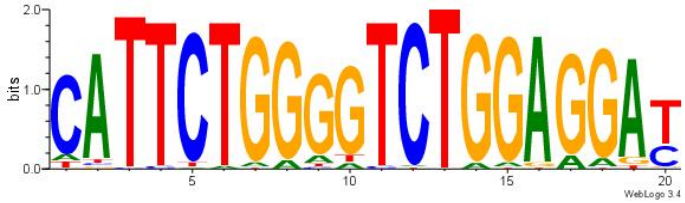

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

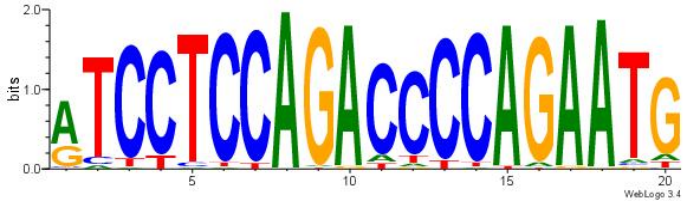

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156982

Alignment:

```
AAGACCTTCCAGTGGGACAA
GGCACTGCTGGGGGACCCAG
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

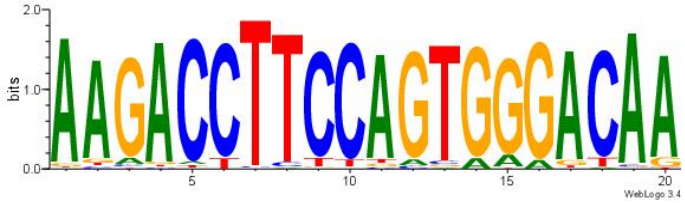

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

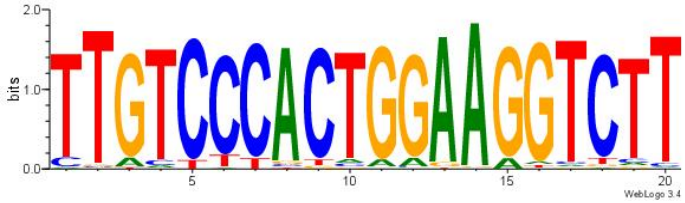

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157816

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

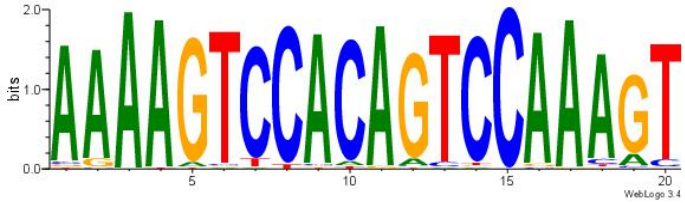

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

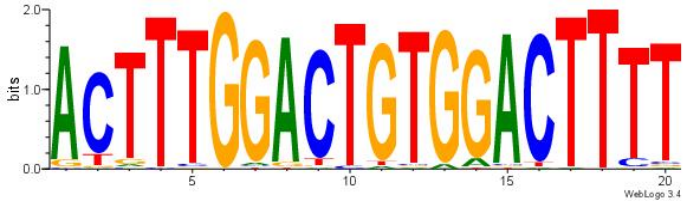

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.158121

Alignment:
HAGTGGKATTGCTGGATCAT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

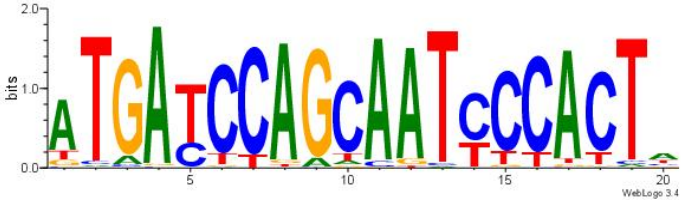

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

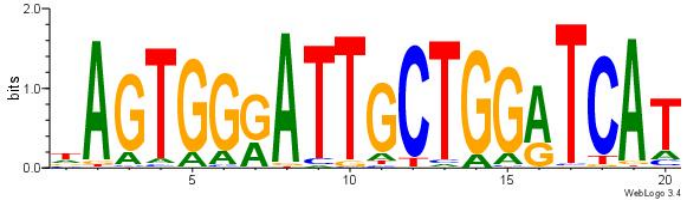

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15977

Alignment:
CTAGACATAAAGGTTCTCCA
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

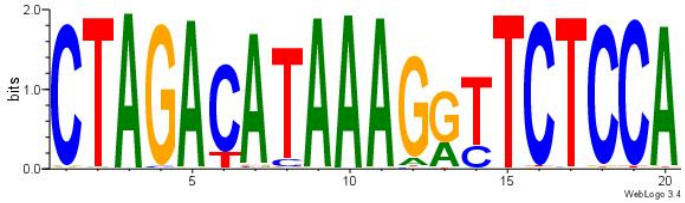

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

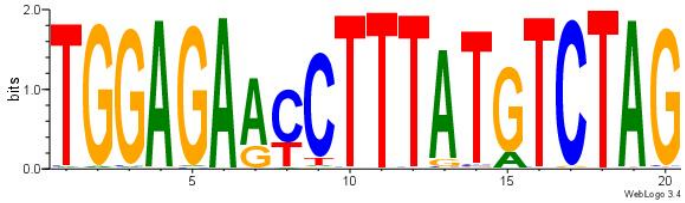

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161178

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

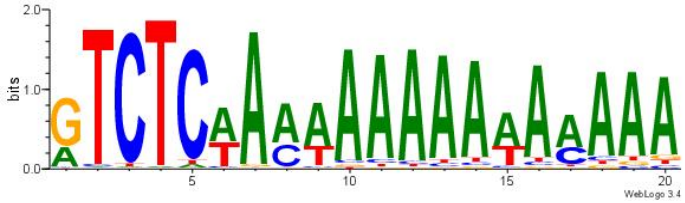

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

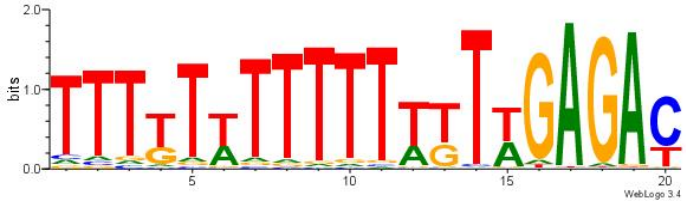

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161609

Alignment:
GTTATTAATTGGCCTAATTT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

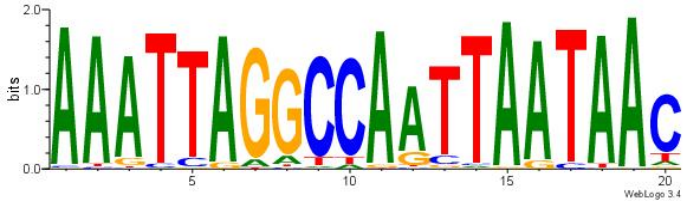

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.162022

Alignment:
CACCAGGAGATTATATCCCR
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

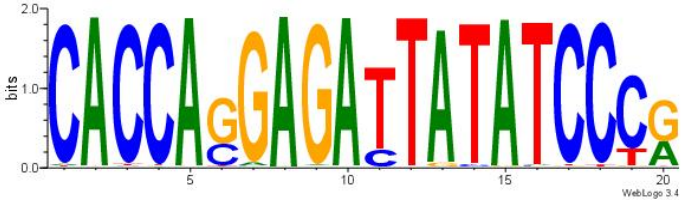

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

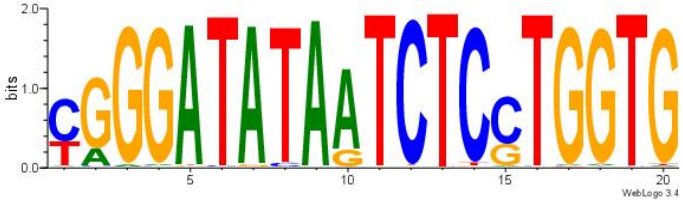

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.163391

Alignment:
CCTGCCATTGCYSAGGCTTG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

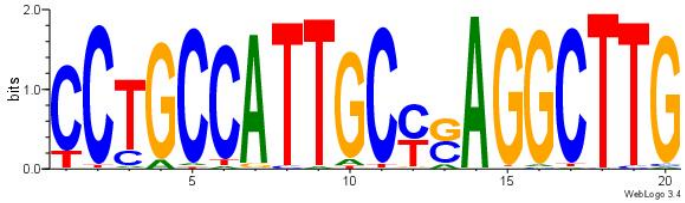

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

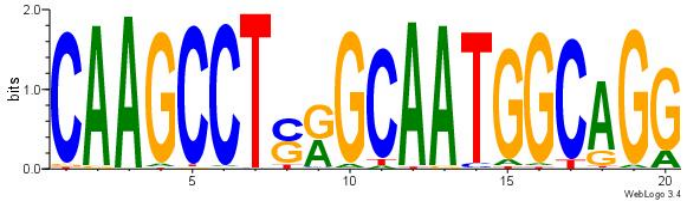

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163633

Alignment:

```
TCCCTCCCGGACGGGGYGGC
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

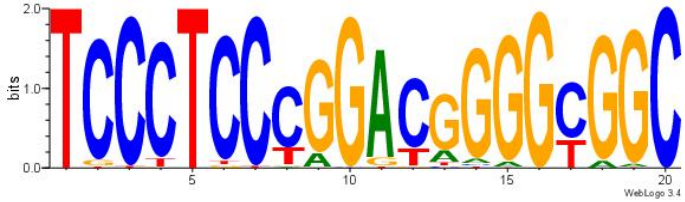

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

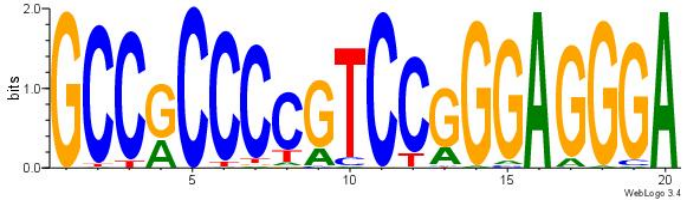

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163805

Alignment:
GCCTCCTTGAGCTGTGGTGG
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

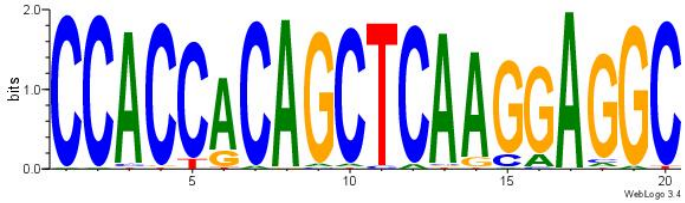

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

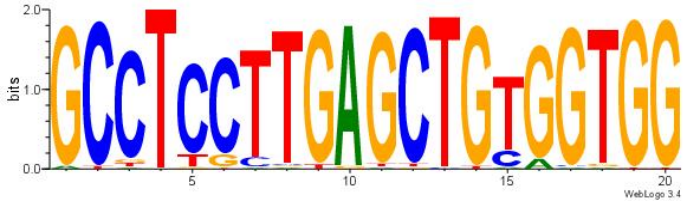

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.163868

Alignment:
VMATTTAKTGAGCACCTACT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

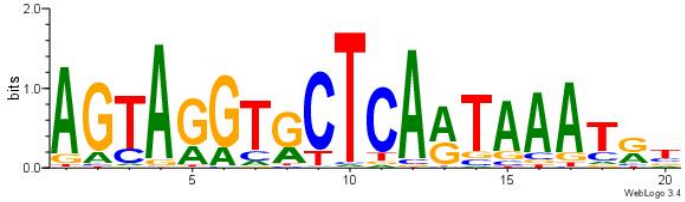

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

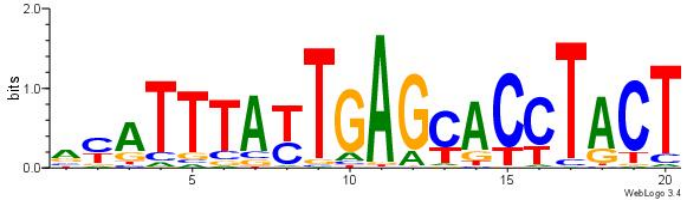

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.165125

Alignment:
AAAATCACAAGCATTCCTAT
GGCACTGCTGGGGGACCCAG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

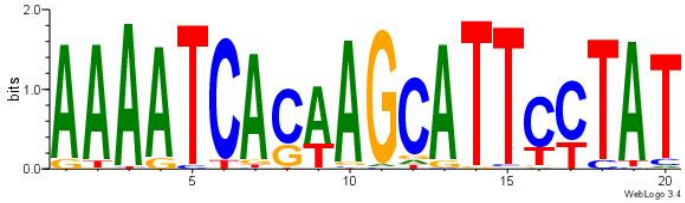

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

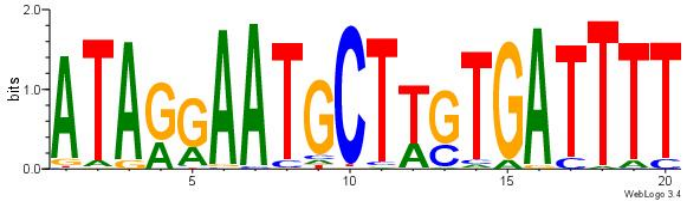

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165566

Alignment:

```
TCKMGCCACTGCACTCCAGC
CTGGGTCCCCCAGCAGTGCC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

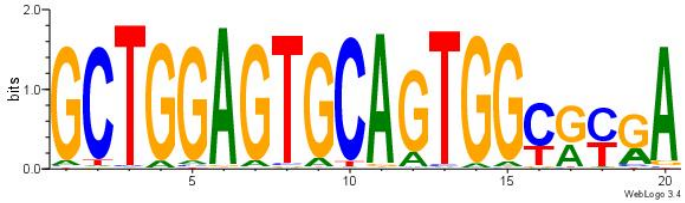

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

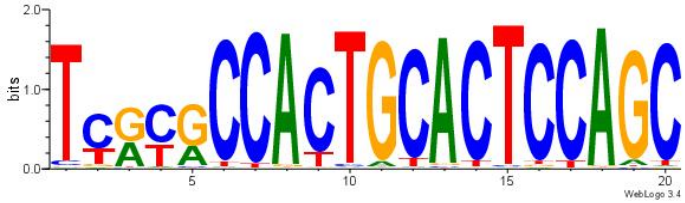

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166302

Alignment:
GAAAGGGAACTCCCTGACCC
CTGGGTCCCCCAGCAGTGCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

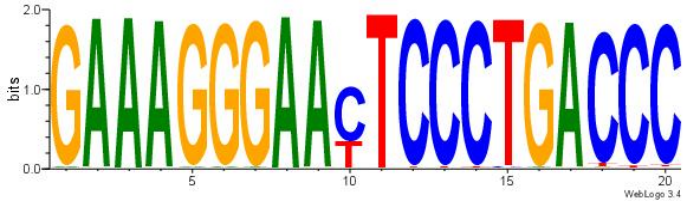

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

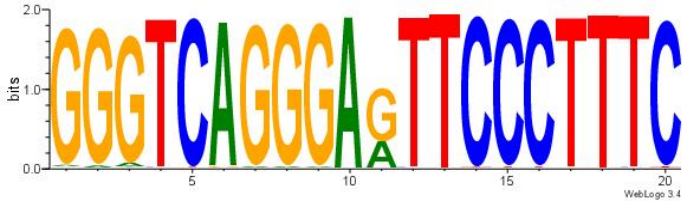

Dataset #: 1 Motif ID: 85 Motif name: Motif 85

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

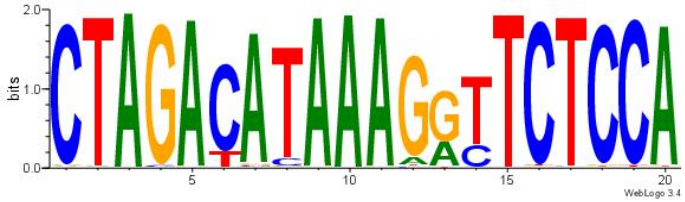

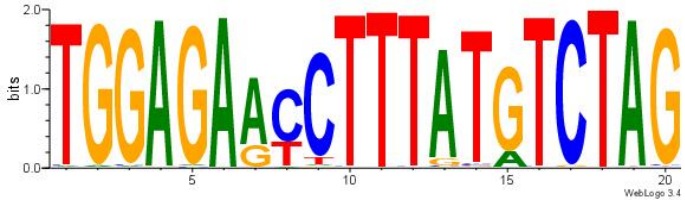

Best Matches for Motif ID 85 (Highest to Lowest)

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122722

Alignment:

```
ATGGACAYTTRGGTTGHTTC
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

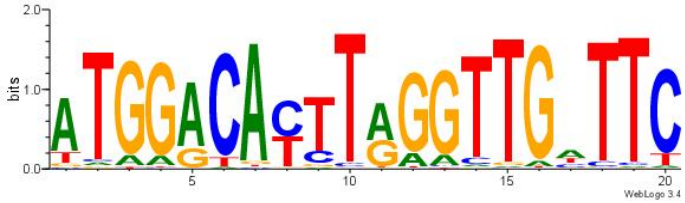

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

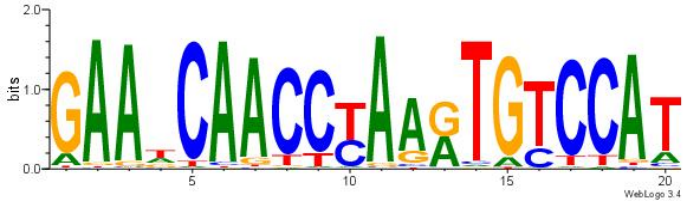

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127727

Alignment:

GTTTAACCATTGAGGGCCAG
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

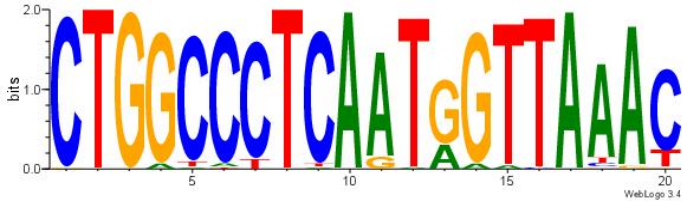

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

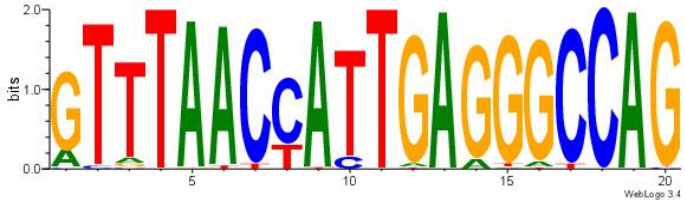

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.1415

Alignment:
CTCCTGCCTCAGCCTCCCRA
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

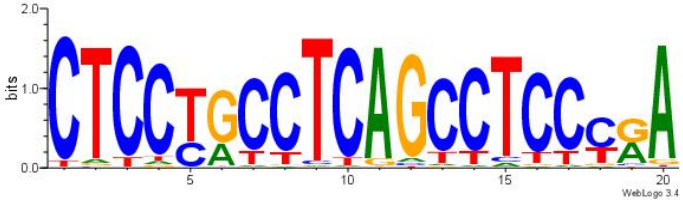

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

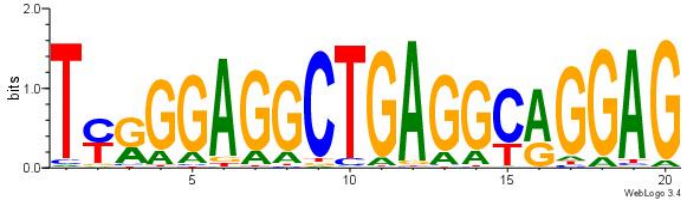

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141611

Alignment:
AAAATCACAAGCATTCCTAT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

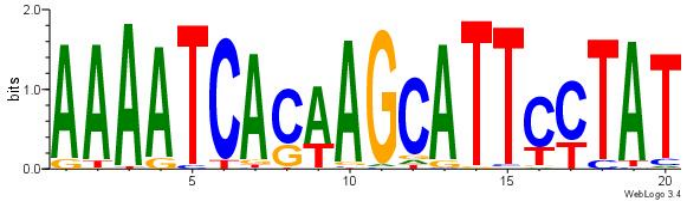

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

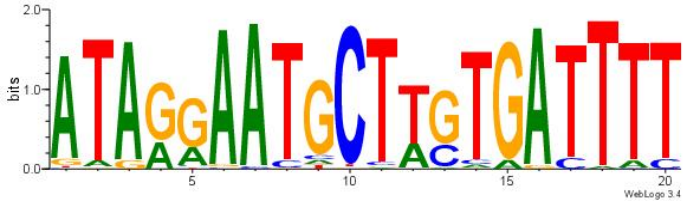

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142355

Alignment:

```
CTCAGTGTTAATCTCCTGTC
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

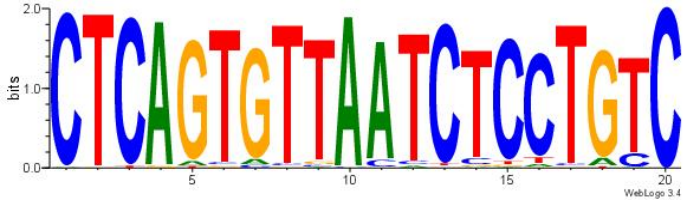

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

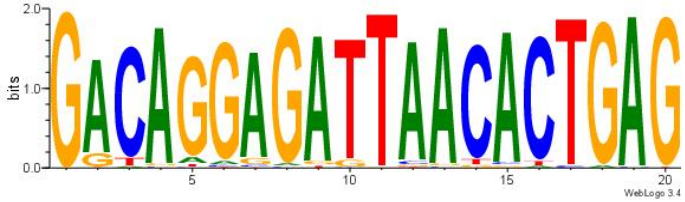

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142641

Alignment:

```
AGTAGGTGCTCARTAAATRB
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

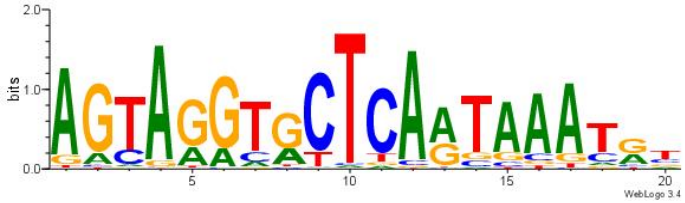

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

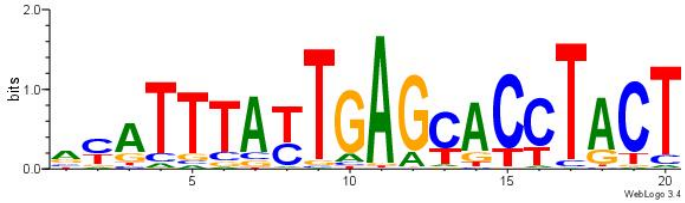

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.144494

Alignment:
CTGGGCRACAGAGYRAGACY
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

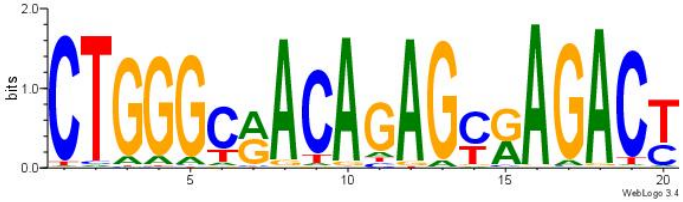

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

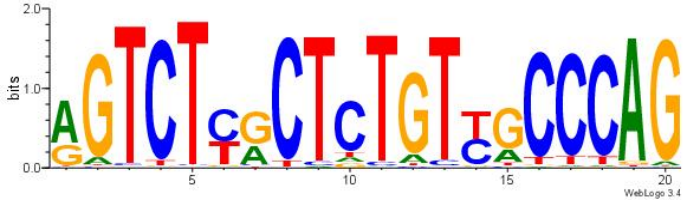

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144569

Alignment:
AAAGCTGGAGCTATTATCTA
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

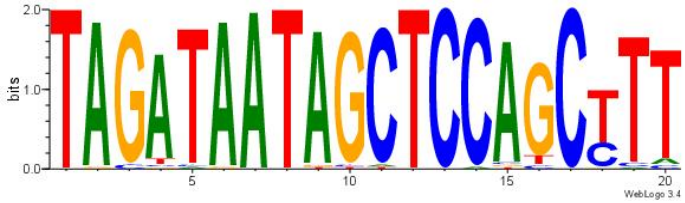

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

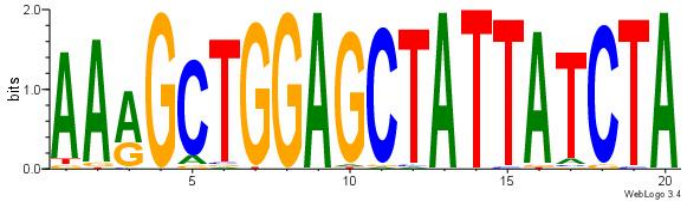

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147231

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

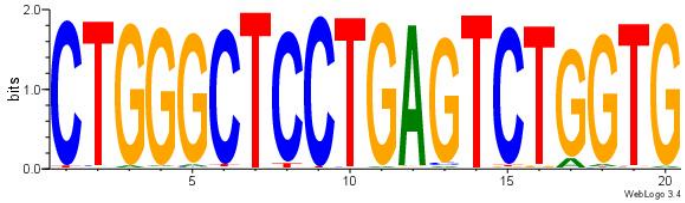

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

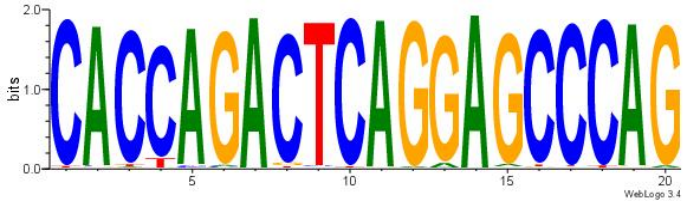

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148959

Alignment:

```
CTGACTGGGAGACACCTCCC
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

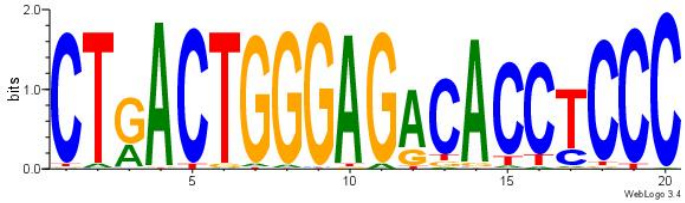

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

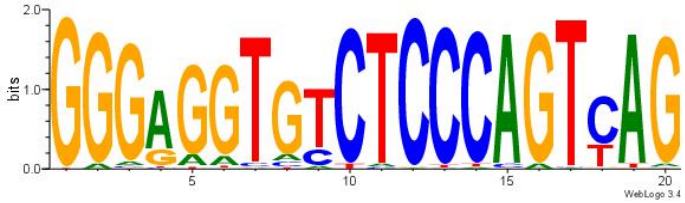

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.149073

Alignment:
AGTGAGAACATRYRRTRTTT
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

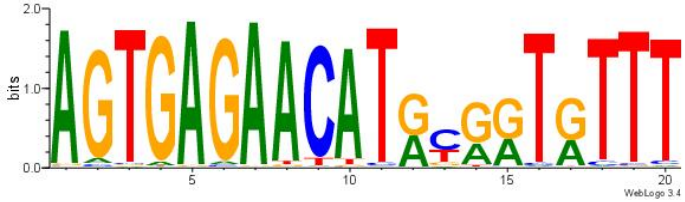

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

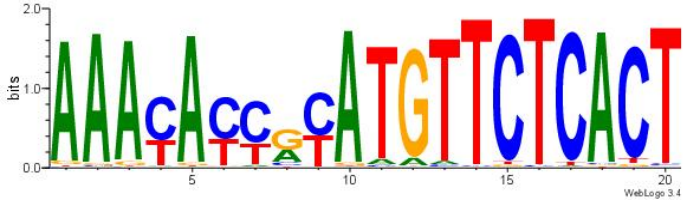

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149791

Alignment:
ATTGATMKCCAGGGTTGATT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

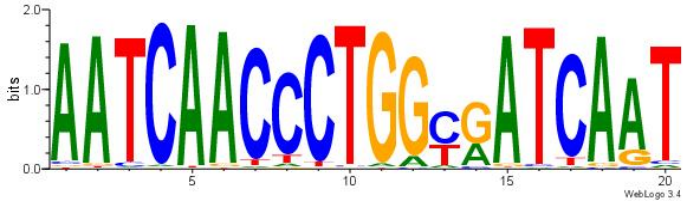

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

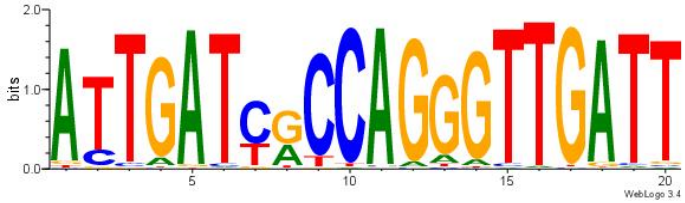

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150033

Alignment:

```
CAGCTACTCKTATACCCTTG
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

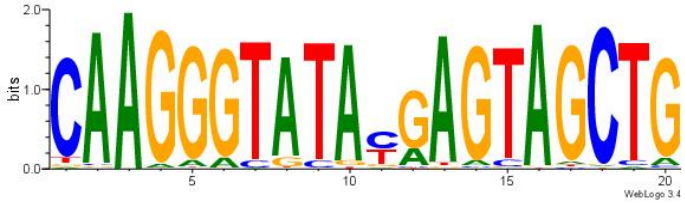

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

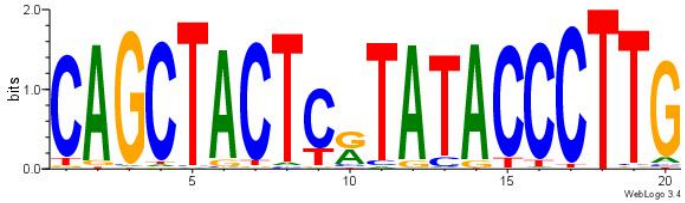

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150727

Alignment:
TGGCTTCACCCAGTGGATCC
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

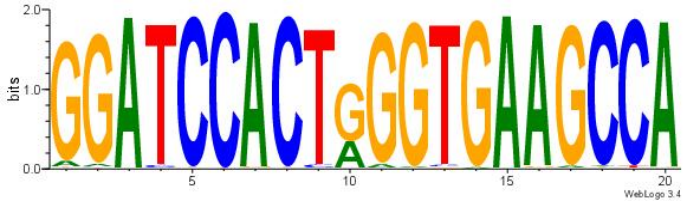

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

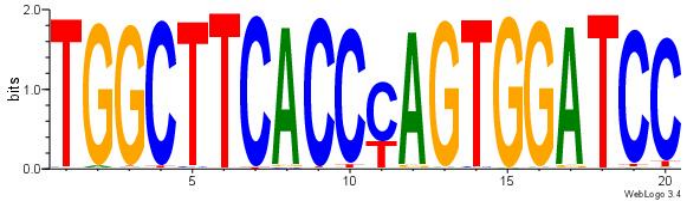

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.150908

Alignment:
TTCAMTCATGATTTGGCTCT
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

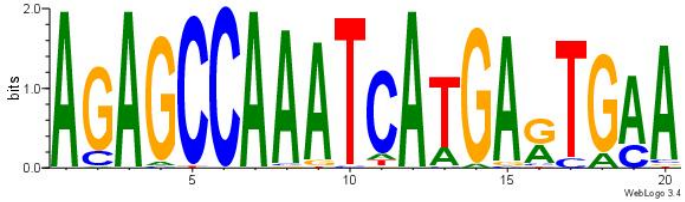

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

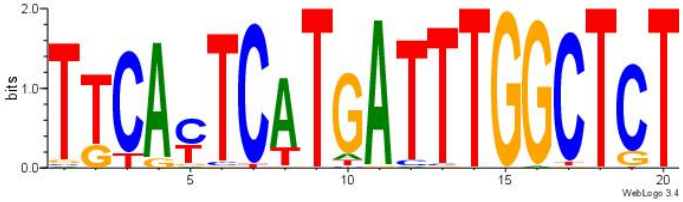

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151116

Alignment:
TCKMGCCACTGCACTCCAGC
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

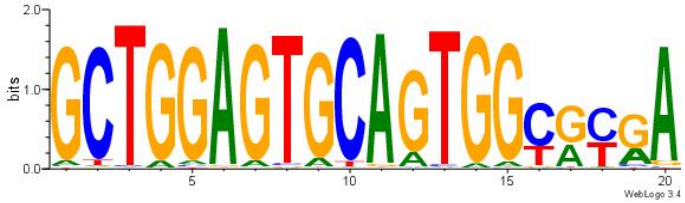

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

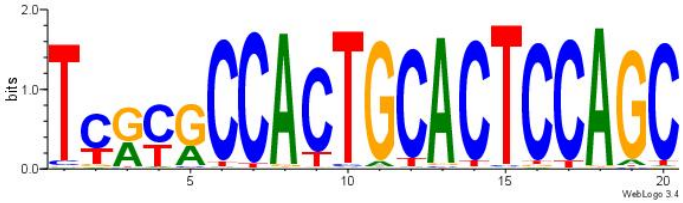

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151608

Alignment:

```
ATTGGTGTATTTACAATCCC
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

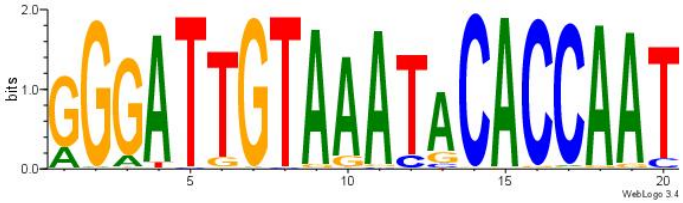

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151614

Alignment:
CMTAGYACAGTGCCTGGCAC
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

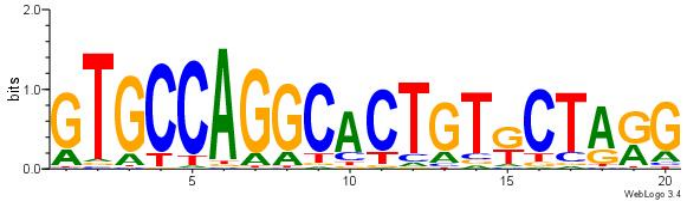

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

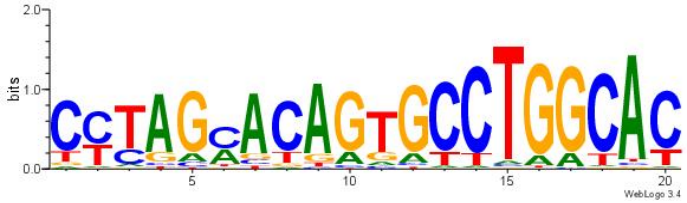

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.151866

Alignment:
AATGAKATCATGTCYTTTGC
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

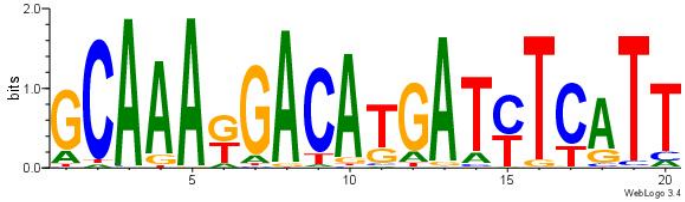

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

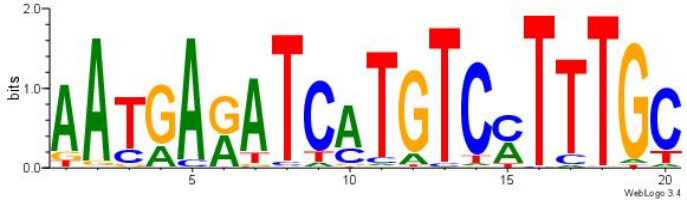

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152915

Alignment:
GAATACCTCCTGAAGGACCT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

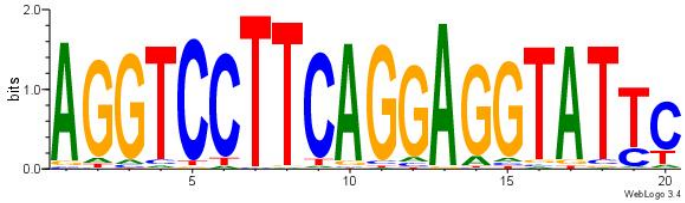

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

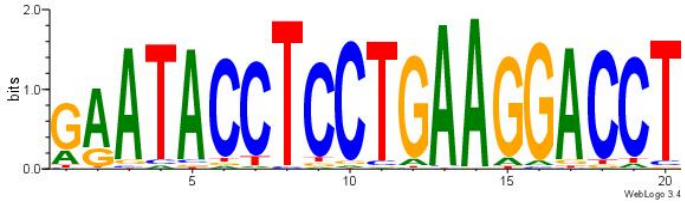

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15331

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

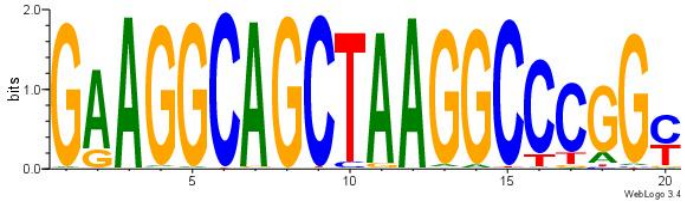

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

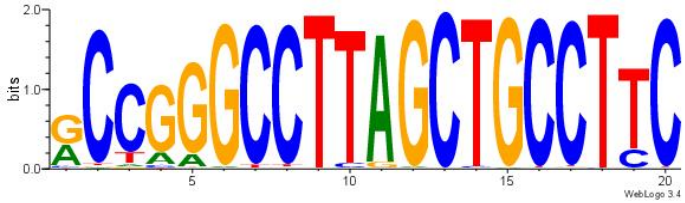

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154324

Alignment:
CGGCGCTGMGCTCGATTTCT
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

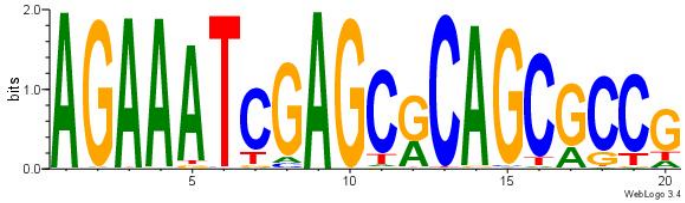

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

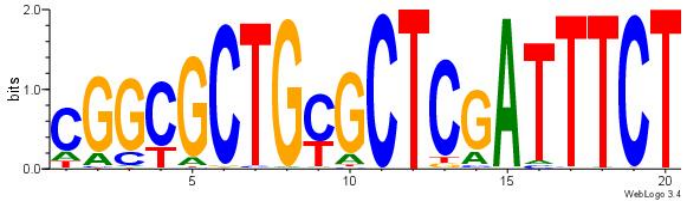

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.154583

Alignment:
GCCAGTCACAAAARGACAMA
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

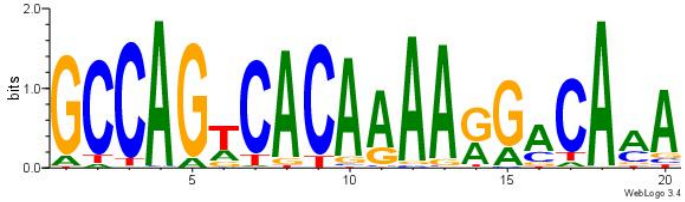

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

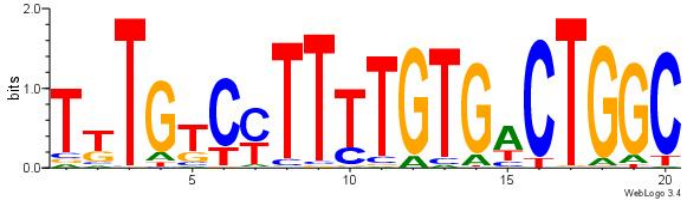

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155098

Alignment:
CACCAGGAGATTATATCCCR
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

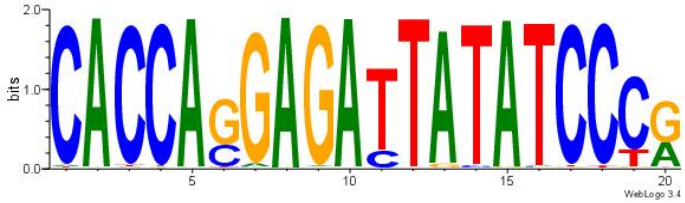

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

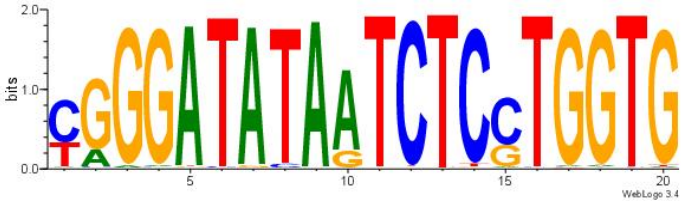

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156891

Alignment:

```
AACAACASACACTGGGGCCT
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

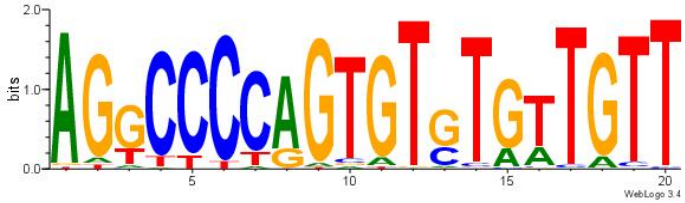

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

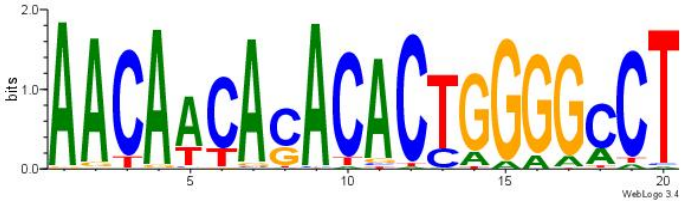

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157172

Alignment:

```
ATGTAACCAAAYACCACCTG
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

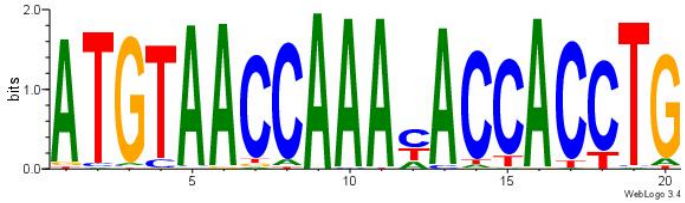

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

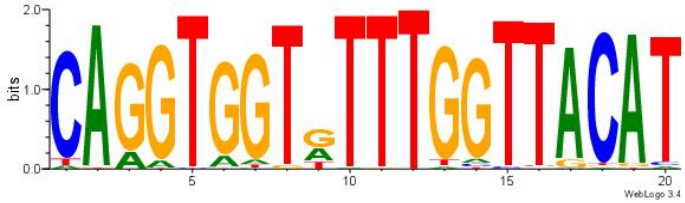

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.157237

Alignment:
TGCTGGAGGTCCACTCCAGA
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

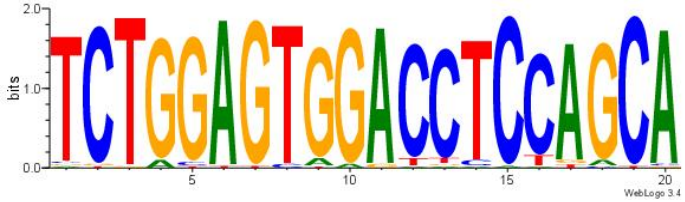

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

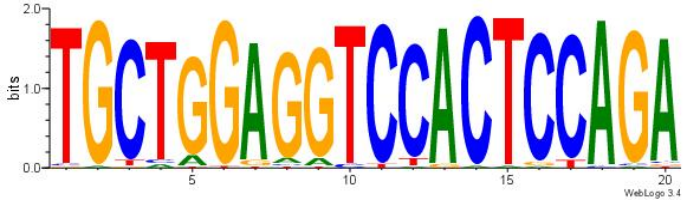

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158402

Alignment:
GTCTCWAMAAAAAAWAMAAA
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

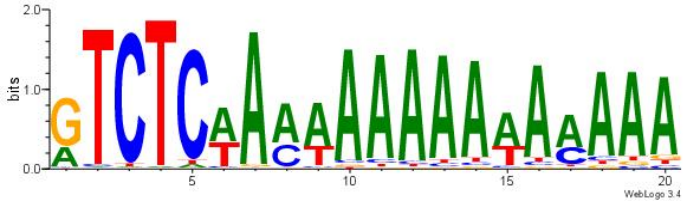

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

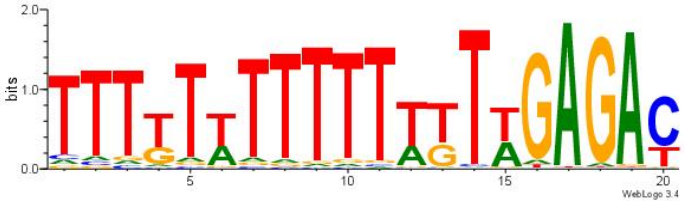

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158513

Alignment:

```
ATGTGGAGGTGGAAGACAGT
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

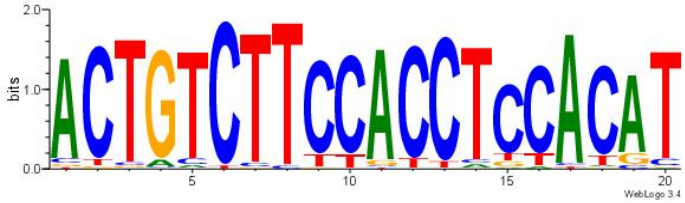

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

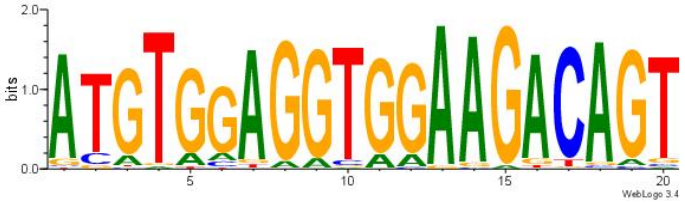

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158628

Alignment:
GTKTMTATMTACCACATTTT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

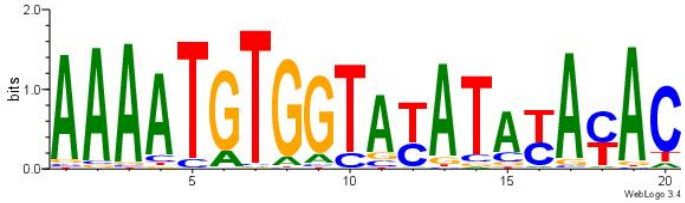

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

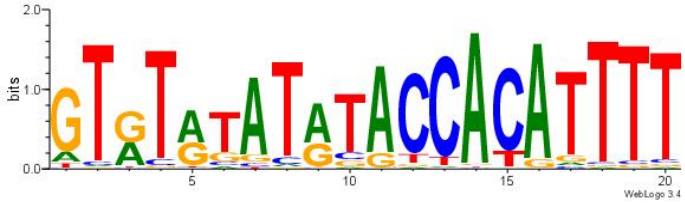

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.159151

Alignment:
TTGTCCCACTGGAAGGTCTT
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

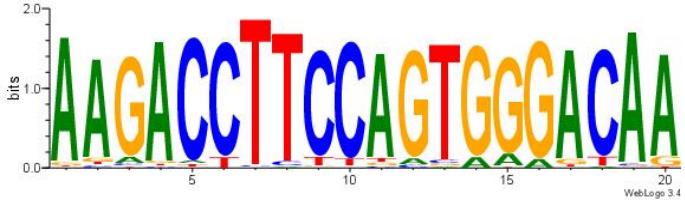

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

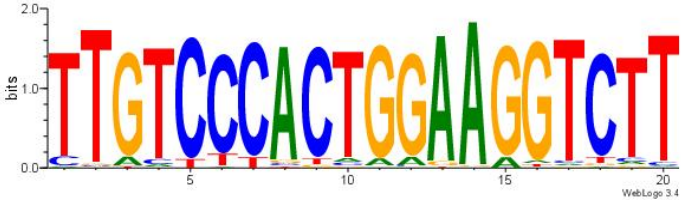

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.159859

Alignment:
ATGGCTGAATAKTATTCCAT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

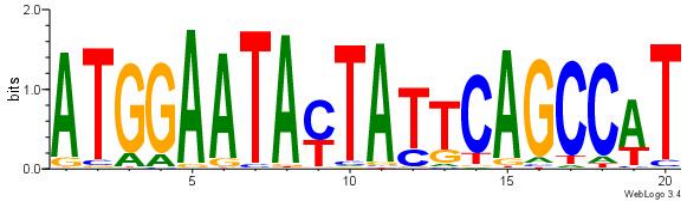

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

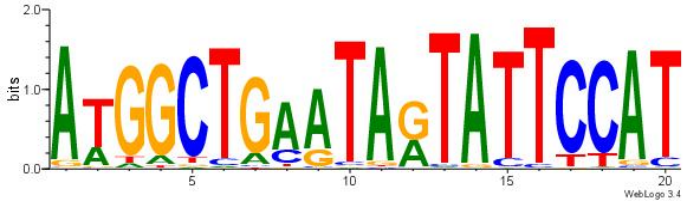

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160706

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

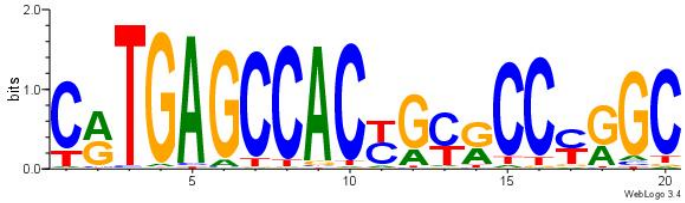

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

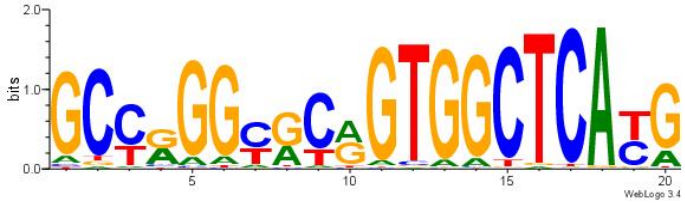

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162369

Alignment:
GCTGGCCCGCAAGCGCCGCG
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

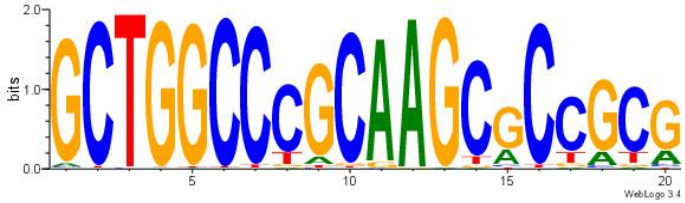

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

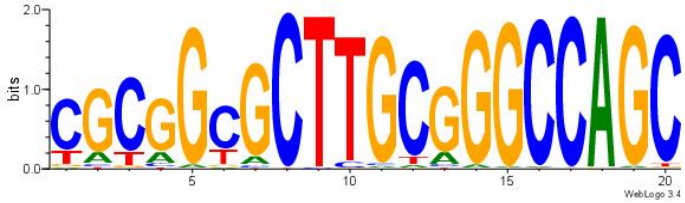

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.163146

Alignment:
ACACATCACAAAGCAGTTTC
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

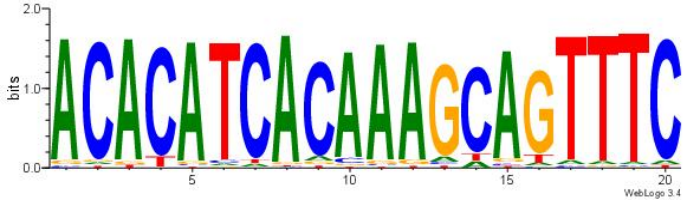

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

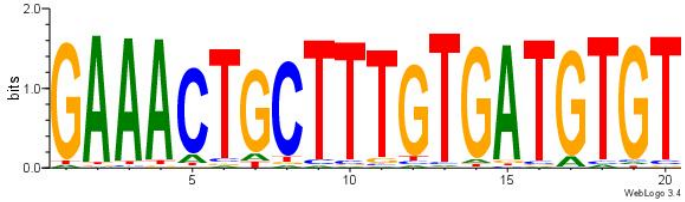

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.163255

Alignment:
CGAGCCTCCCCGAYGAGCGC
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

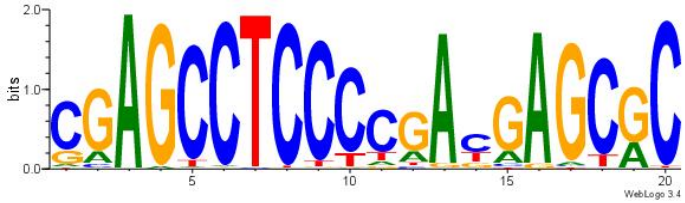

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

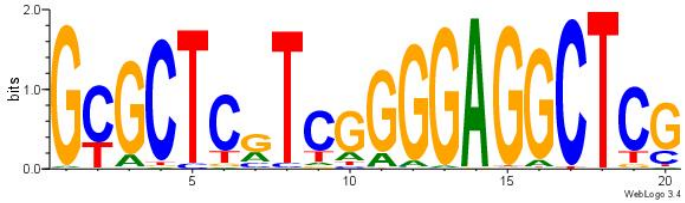

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163413

Alignment:

```
ATGATCCAGCAATYCCACTH
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

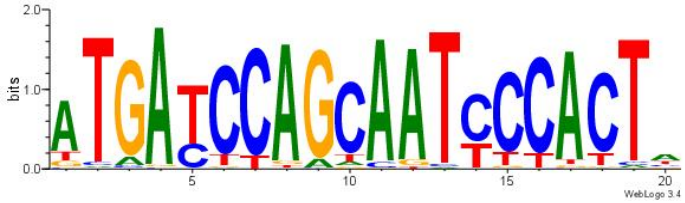

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

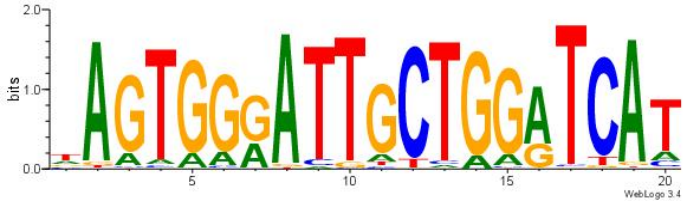

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.164078

Alignment:
GGCATCACGGATCCTACCAA
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

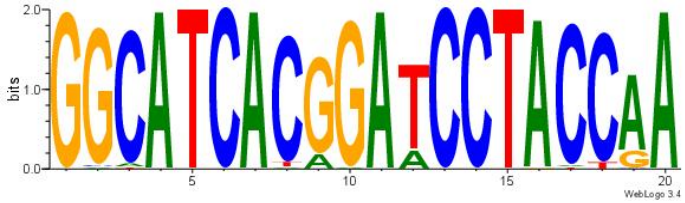

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

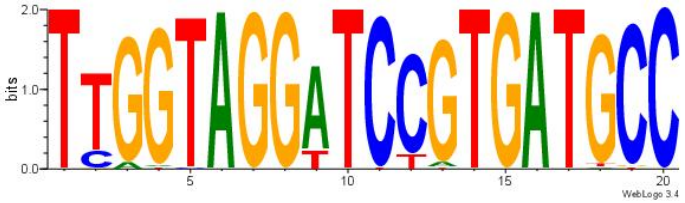

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.164561

Alignment:
GTGGCCCTCTTCTCACAGCT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

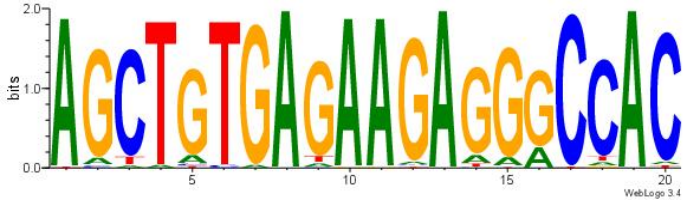

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

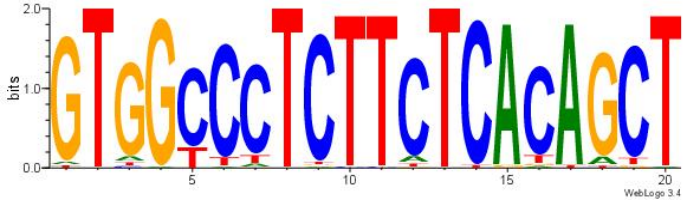

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.165044

Alignment:
AGTGACCCGATTTTCCAGGT
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

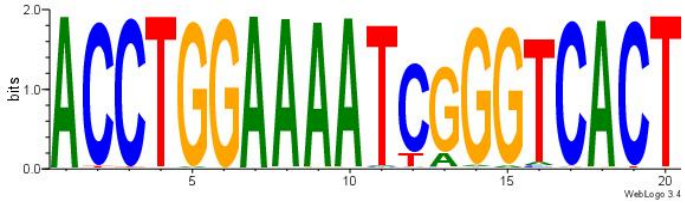

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

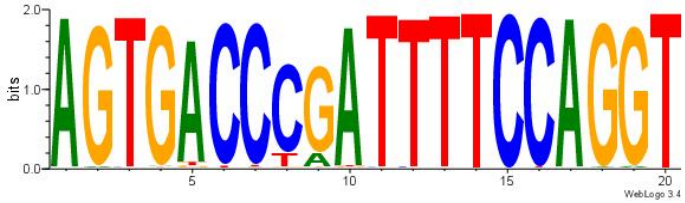

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165993

Alignment:

```
CTCCAGKTMCATCCATGTTG
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

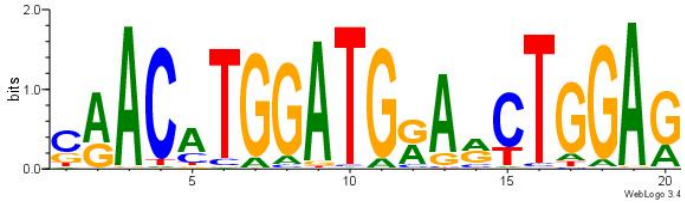

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

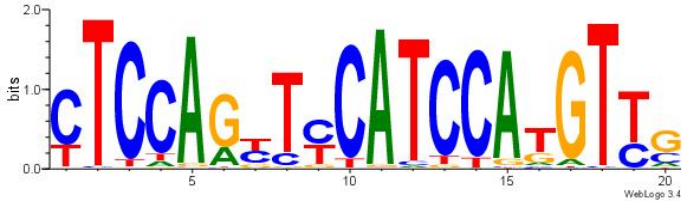

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166329

Alignment:
CTGGGTCCCCCAGCAGTGCC
CTAGACATAAAGGTTCTCCA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

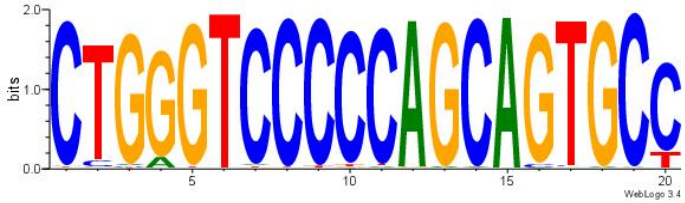

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

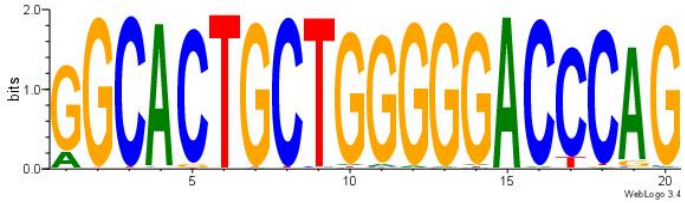

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.167933

Alignment:
GCCTCTCCCTCCACACCTCC
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

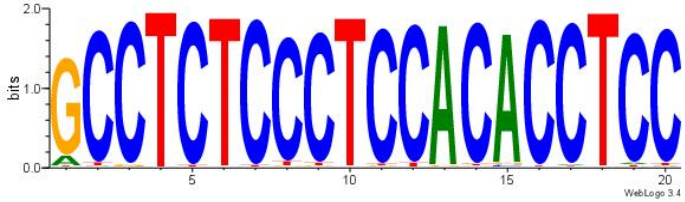

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

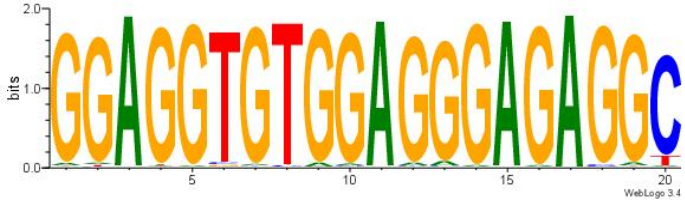

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16917

Alignment:
AGGACTGAGGGTGCCYRGGG
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

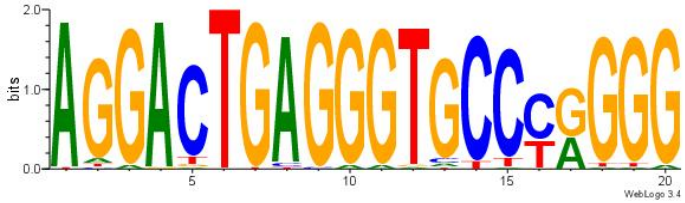

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

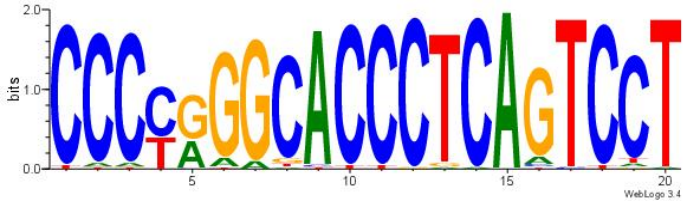

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.169549

Alignment:

```
AAGCAGGGCGAGGCATTGCC
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

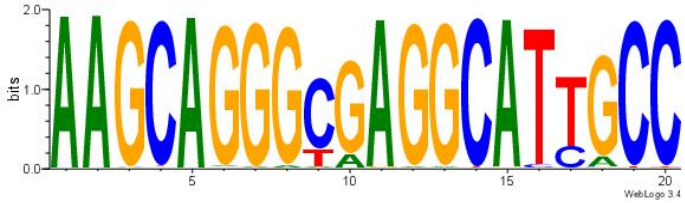

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

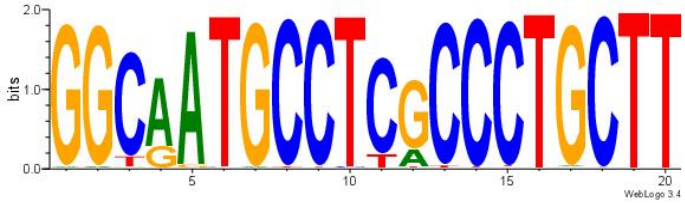

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.171155

Alignment:
ACCCAATWTGTAGTCTTTTA
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

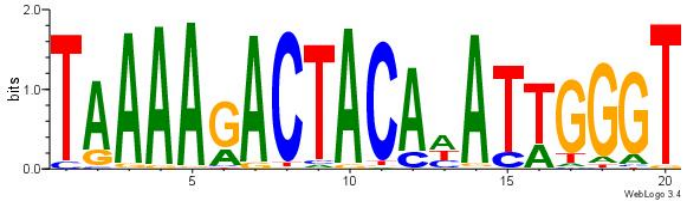

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

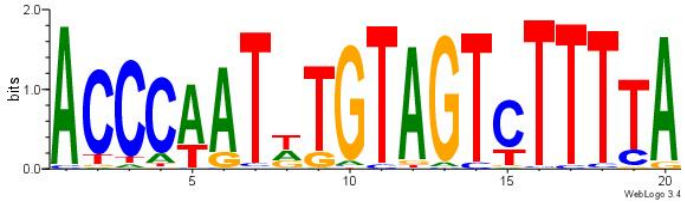

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.171247

Alignment:
AAGTTCTKGGKTACATGTGC
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

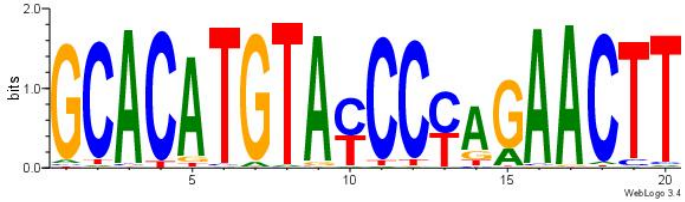

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

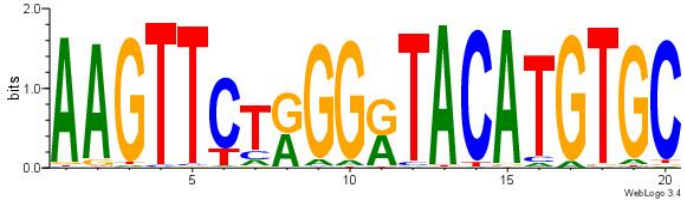

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.171731

Alignment:
TAATTTTATGTGTCAACTTG
TGGAGAACCTTTATGTCTAG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

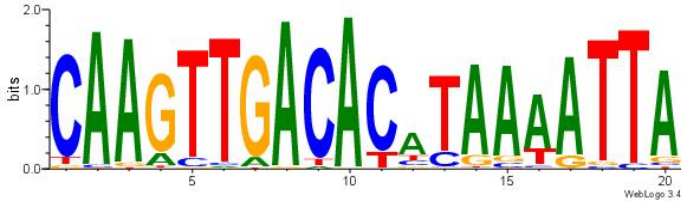

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

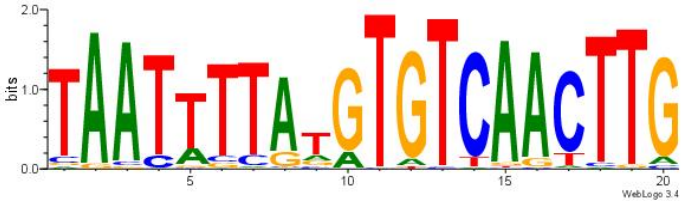

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.172346

Alignment:

```
KKCACCTTGATCTTGGACTT
CTAGACATAAAGGTTCTCCA
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

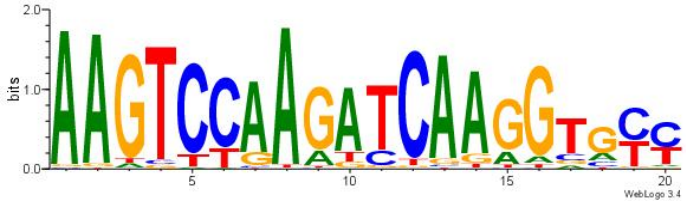

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

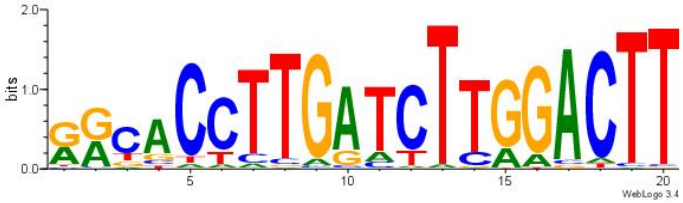

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.172485

Alignment:

```
AAGGAACAAACTCCRGACAC
TGGAGAACCTTTATGTCTAG
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

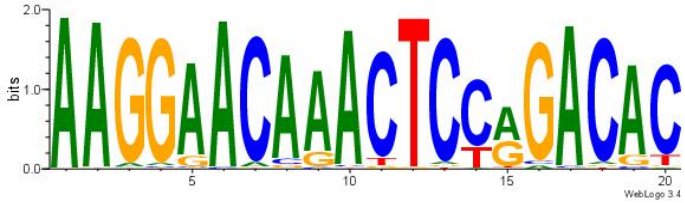

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

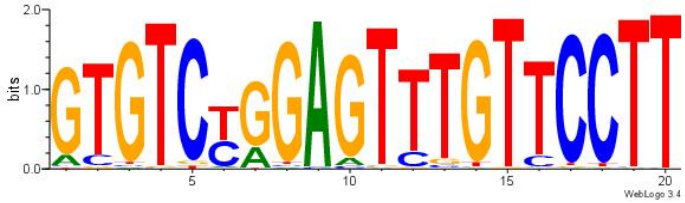

Dataset #: 1 Motif ID: 86 Motif name: Motif 86

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

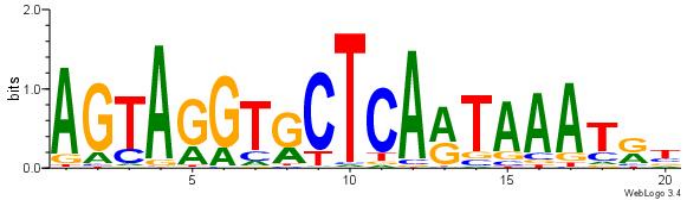

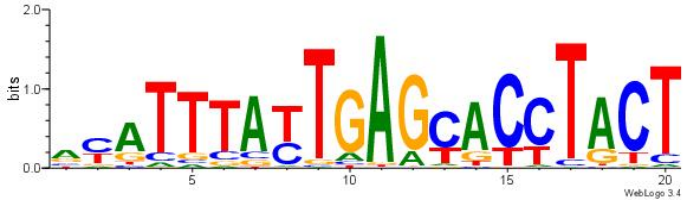

Best Matches for Motif ID 86 (Highest to Lowest)

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0711295

Alignment:

```
AAAATGTGGTAYATAYAYAC
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

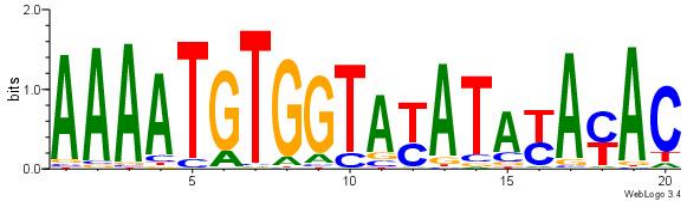

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

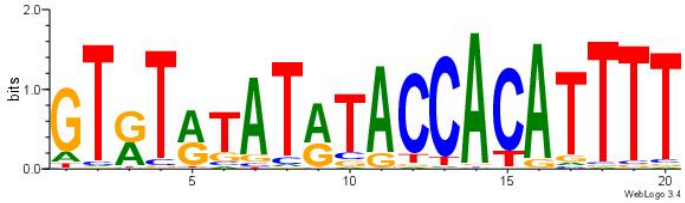

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0944134

Alignment:
TWTACCTATGTAACAAACCT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

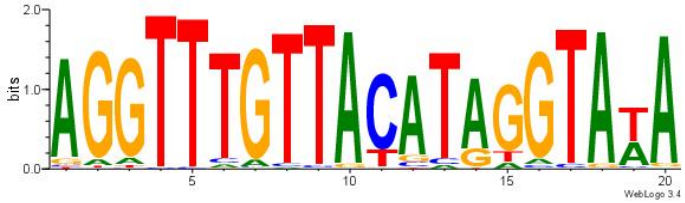

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

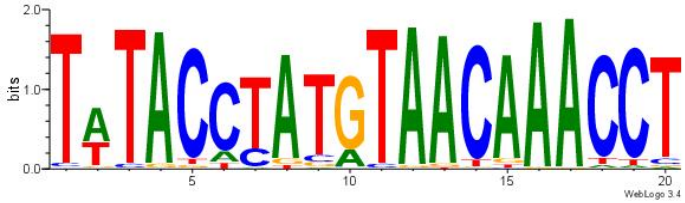

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.097593

Alignment:
AWTKKTGGTTKCCAGKGGCT
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

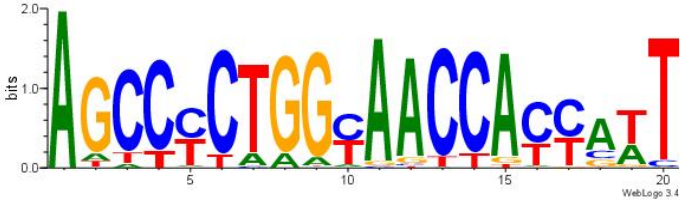

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

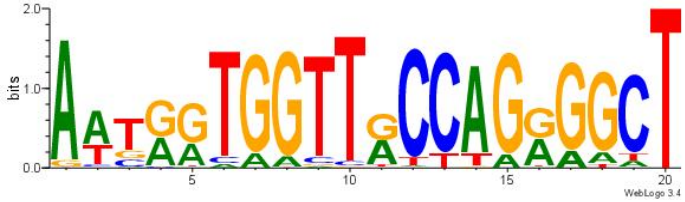

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.0992318

Alignment:
ARCTCCTGKSCTCAAGKGAT
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

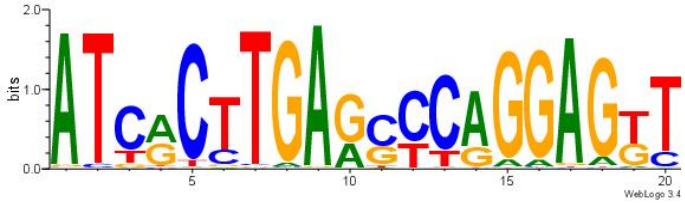

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

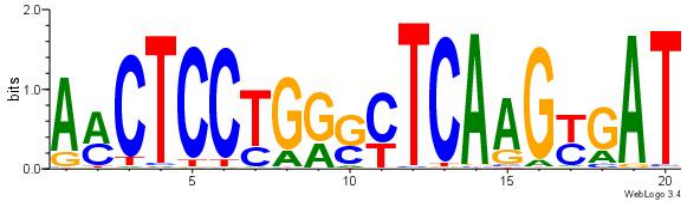

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.100826

Alignment:

```
AGTGAGAACATRYRRTRTTT
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

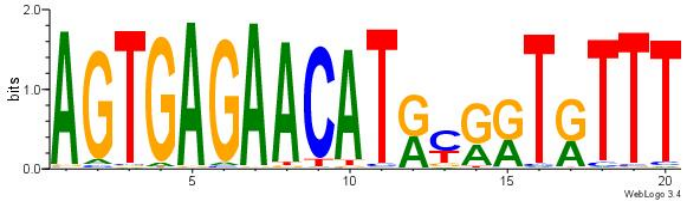

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

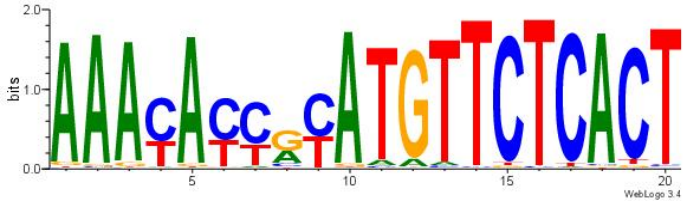

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.101857

Alignment:
ACCGAGMKMGCAGCTTCGGG
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

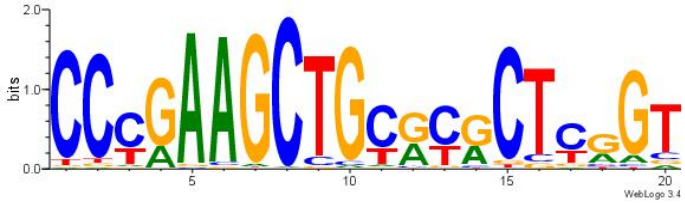

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

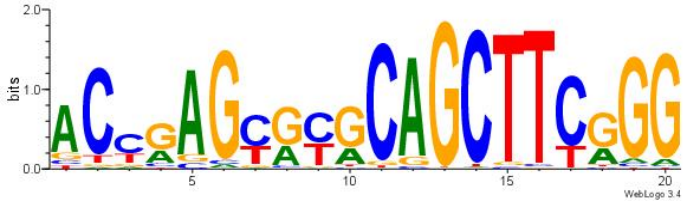

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.102367

Alignment:
CTCCTGCCTCAGCCTCCCRA
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

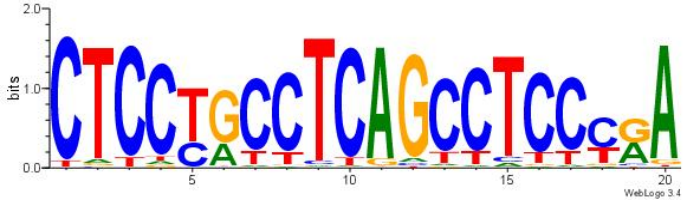

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

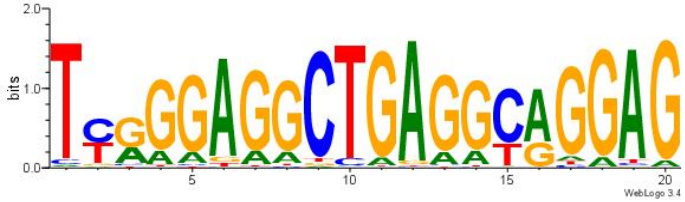

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.102615

Alignment:
GCCAGTCACAAAARGACAMA
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

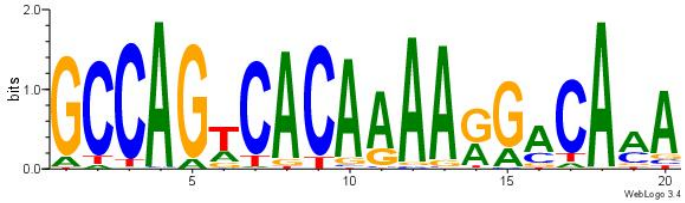

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

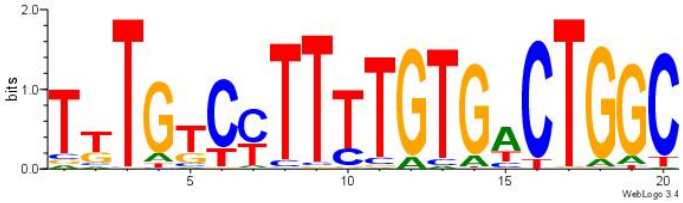

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.103122

Alignment:

```
AAATTAGGCCAATTAATAAC
VMATTTAKTGAGCACCTACT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

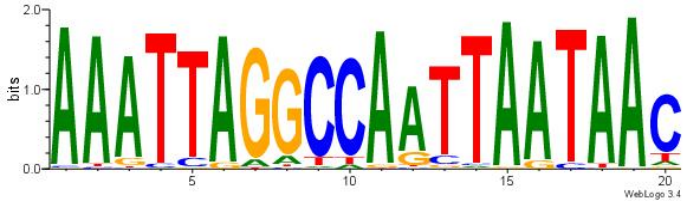

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.103678

Alignment:

```
ACTGTCTTCCACCTCCACAT
VMATTTAKTGAGCACCTACT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

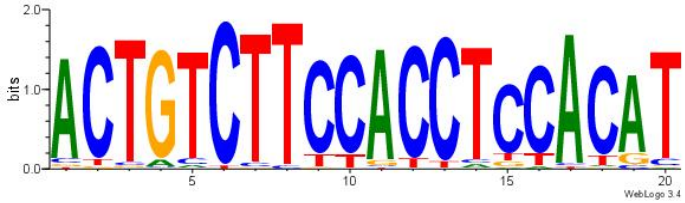

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

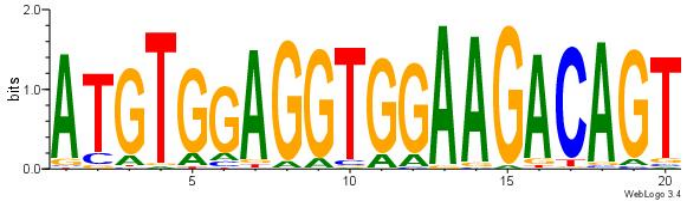

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.103856

Alignment:
AAGCTGAGGGAGCCGGCTCC
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

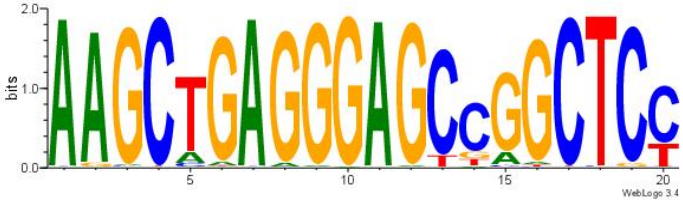

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

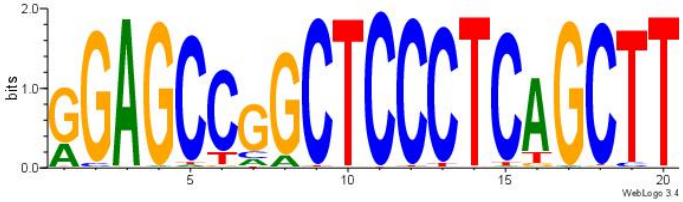

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.103904

Alignment:
GACAGGAGATTAACACTGAG
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

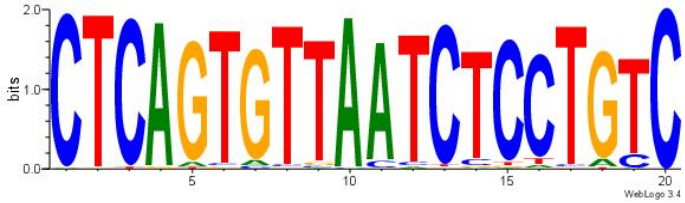

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

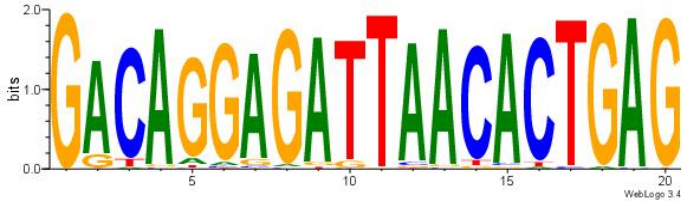

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.105092

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

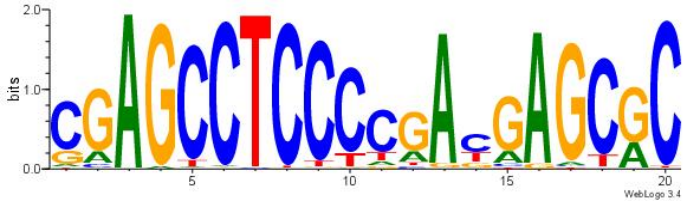

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

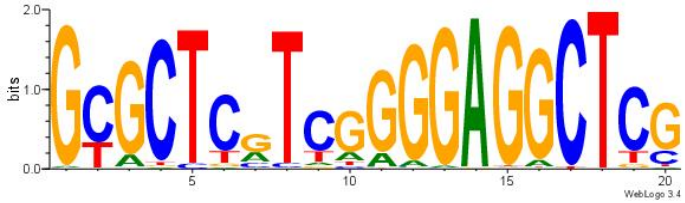

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.105503

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

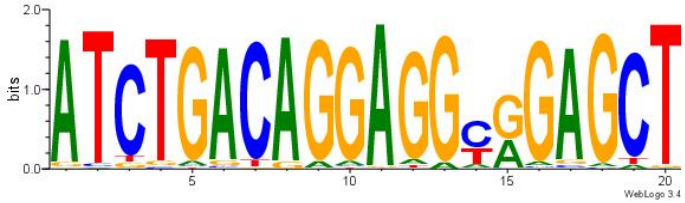

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

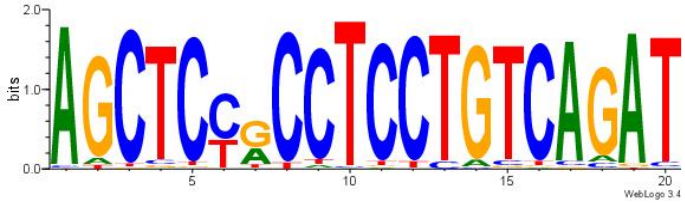

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.105932

Alignment:
GAGAGAGAGAGAGAGAGAGA
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

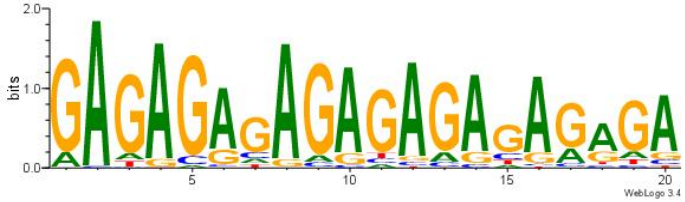

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

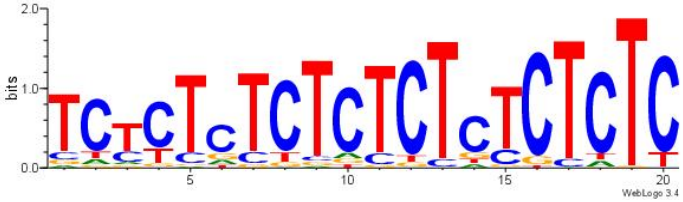

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.106523

Alignment:
CTAGACATAAAGGTTCTCCA
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

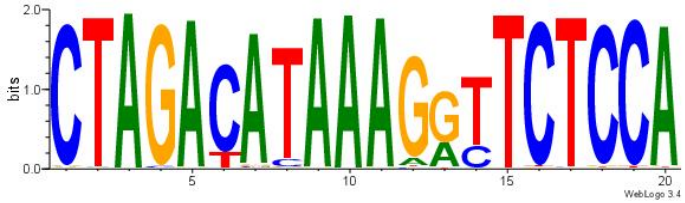

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

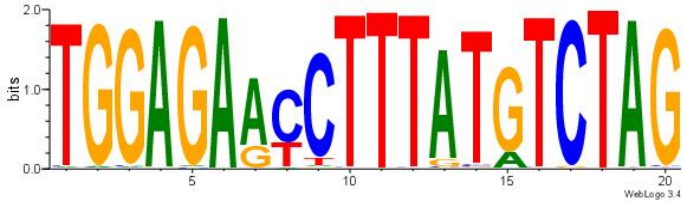

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.107392

Alignment:

```
GAATACCTCCTGAAGGACCT
VMATTTAKTGAGCACCTACT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

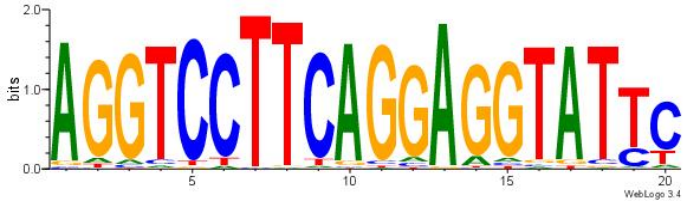

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

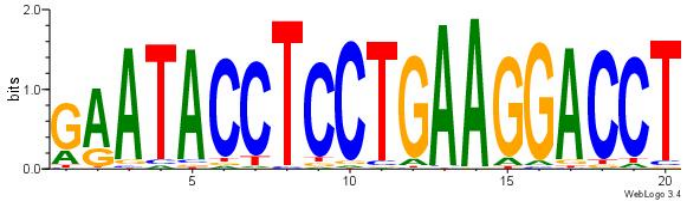

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.107497

Alignment:
ACTTTGGACTGTGGACTTTT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

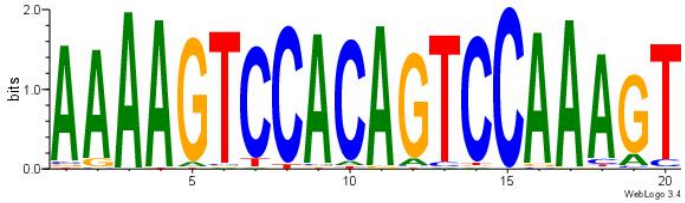

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

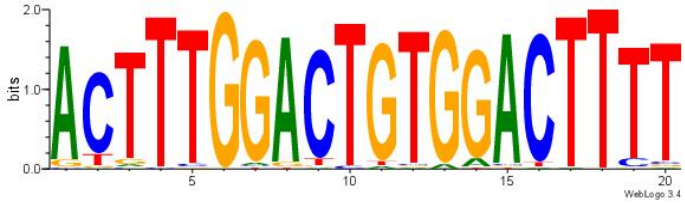

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.108134

Alignment:
CGGCGCTGMGCTCGATTTCT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

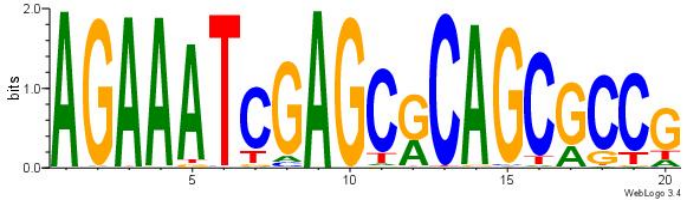

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

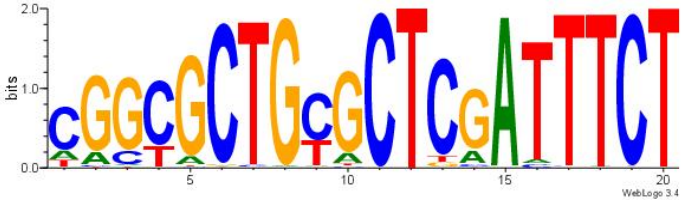

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.108368

Alignment:
TAATTTTATGTGTCAACTTG
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

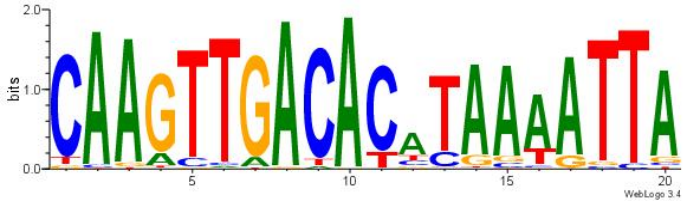

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

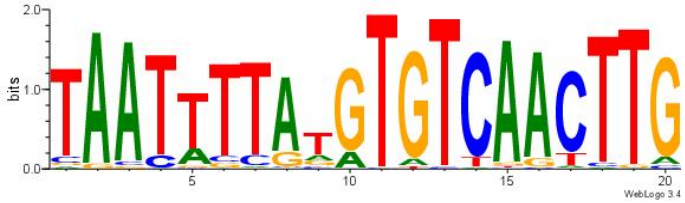

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.109158

Alignment:

```
GGATTTMKGACTTGCATGGG
VMATTTAKTGAGCACCTACT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

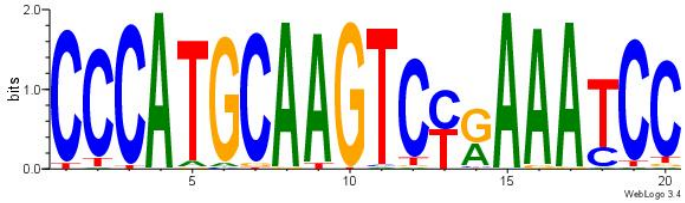

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

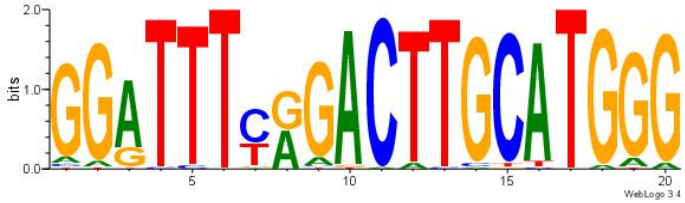

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.109707

Alignment:
ATGGAATAYTATTCAGCCAT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

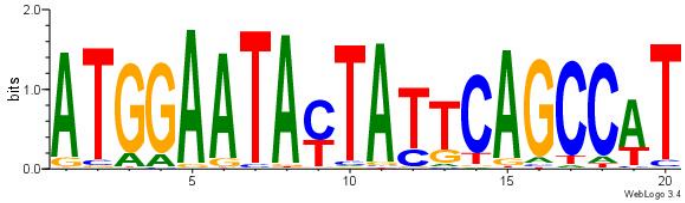

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

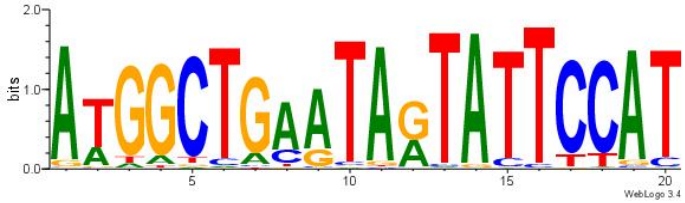

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.109931

Alignment:
CMTAGYACAGTGCCTGGCAC
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

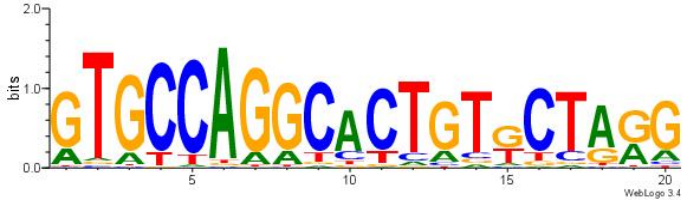

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

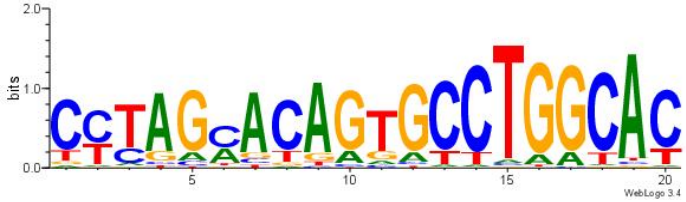

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.110438

Alignment:
GGGATTGTAAATACACCAAT
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

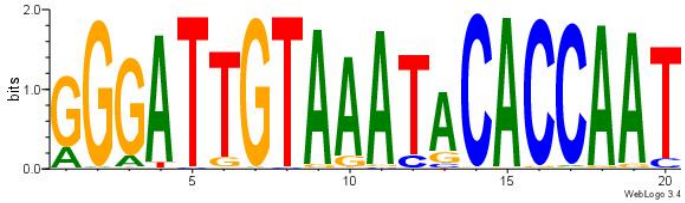

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110983

Alignment:

```
CTGACTGGGAGACACCTCCC
VMATTTAKTGAGCACCTACT
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

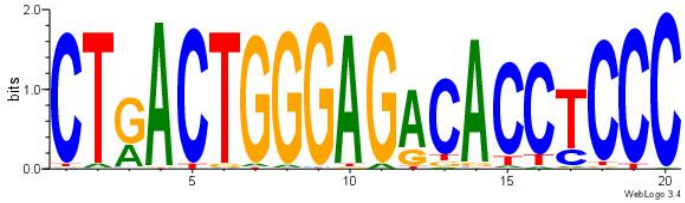

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

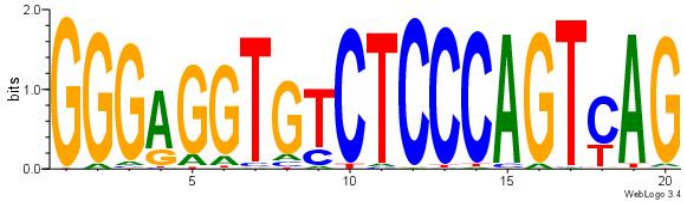

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111271

Alignment:
TTTYTWTTTTTTYTWGAGAC
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

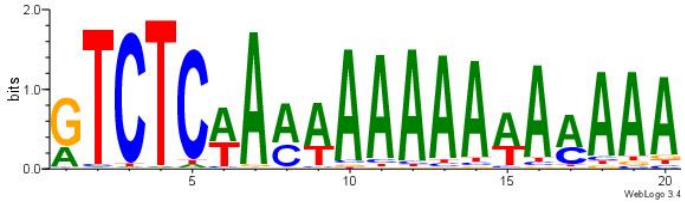

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

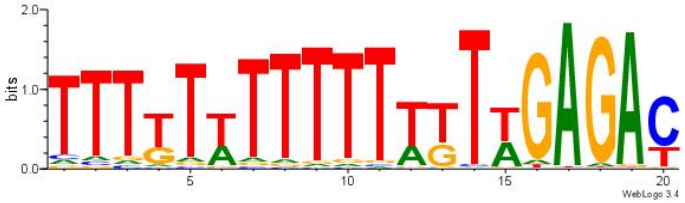

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.112463

Alignment:
AGAGCCAAATCATGARTGAA
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

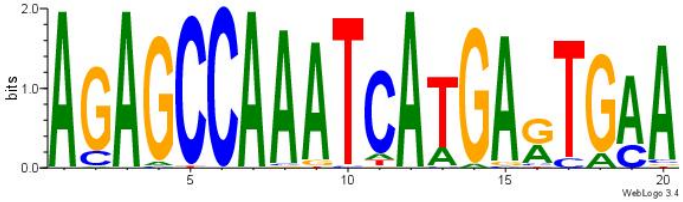

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

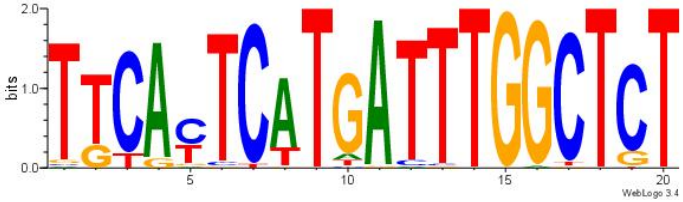

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.113641

Alignment:
AAGTCCAAGATCAAGGTGYY
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

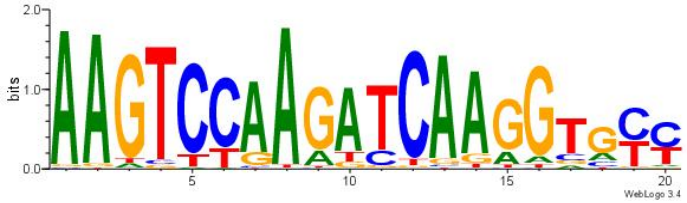

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

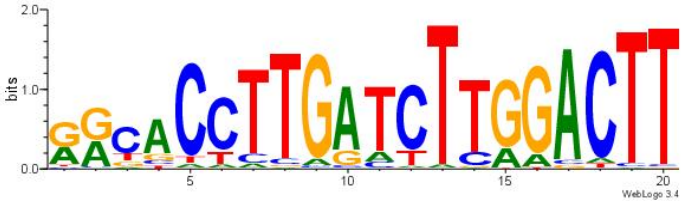

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114132

Alignment:

```
ACCCAATWTGTAGTCTTTTA
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

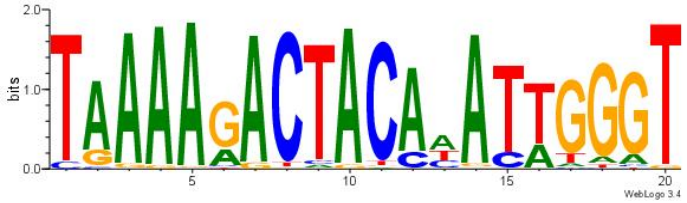

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

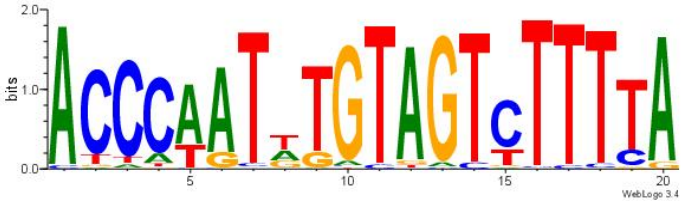

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11449

Alignment:

AATGAKATCATGTCYTTTGC

VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

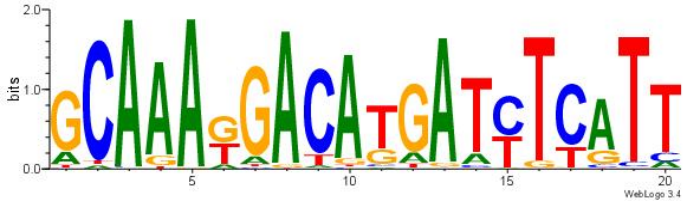

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

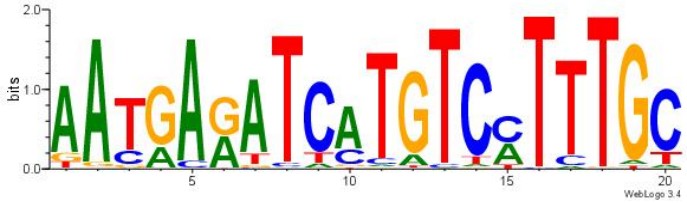

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.115086

Alignment:
GTAACACTCACCGCGARGGT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

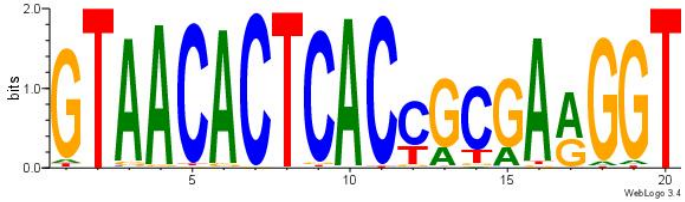

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

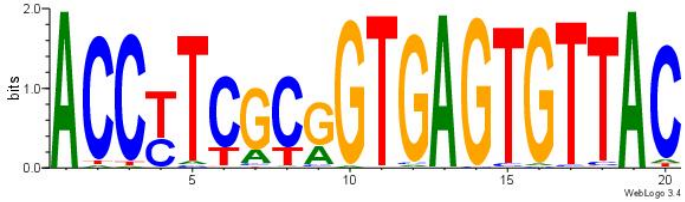

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.115482

Alignment:
GCTGTGTGACCTTGGGCAAG
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

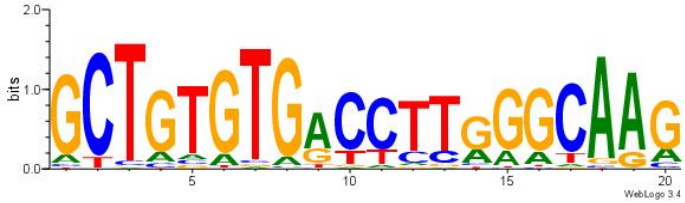

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

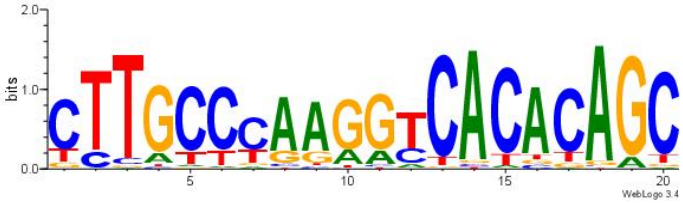

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115765

Alignment:

```
CTGGGCRACAGAGYRAGACY
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

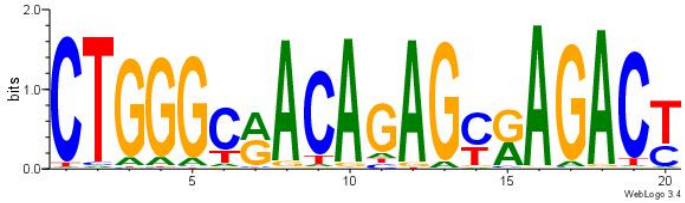

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

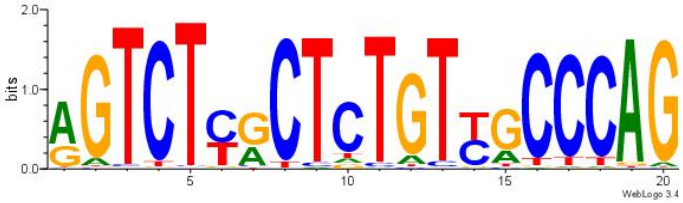

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115821

Alignment:
TGCTGGAGGTCCACTCCAGA
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

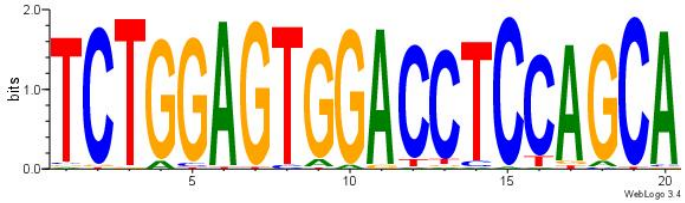

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

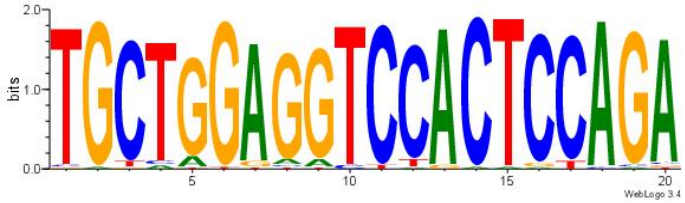

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.116264

Alignment:
HAGTGGKATTGCTGGATCAT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

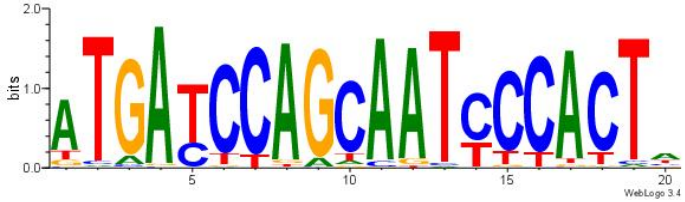

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

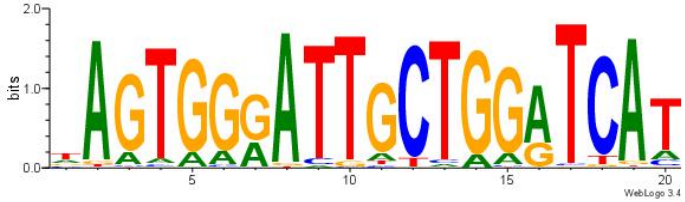

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.116366

Alignment:
TCCAAATGGGAGAAATTGGC
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

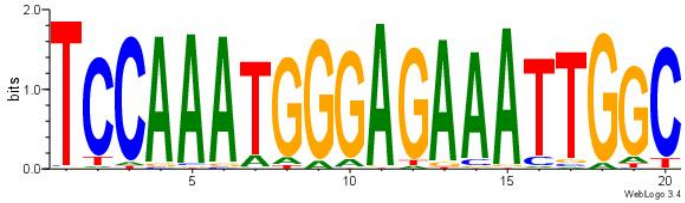

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

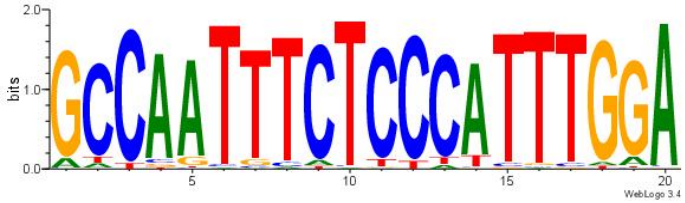

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116937

Alignment:

```
AATCAACCCTGGYRATCAAT
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

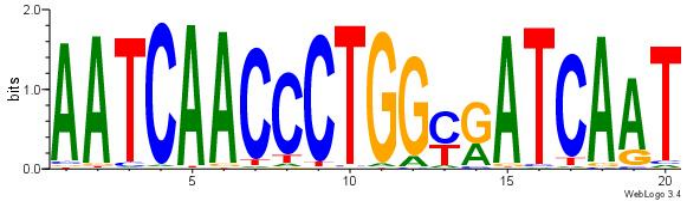

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

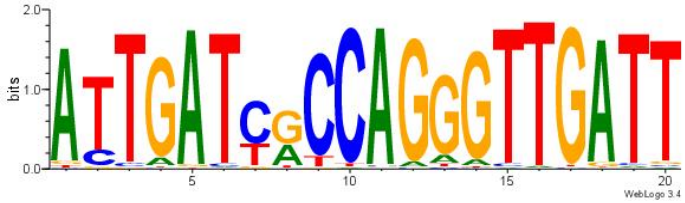

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117178

Alignment:
GGATCCACTGGGTGAAGCCA
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

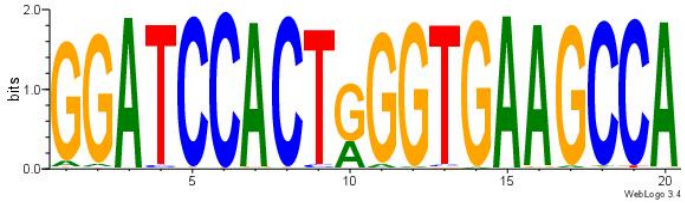

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

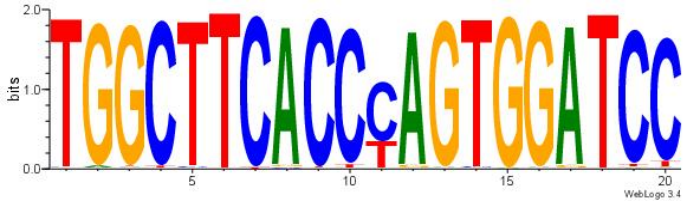

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.118171

Alignment:
AAAATCACAAGCATTCCTAT
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

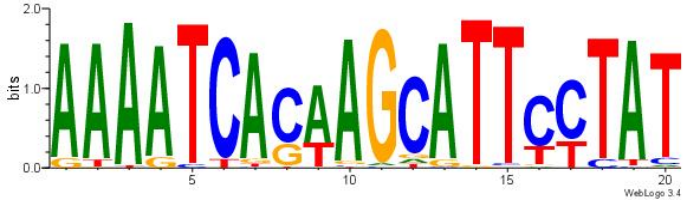

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

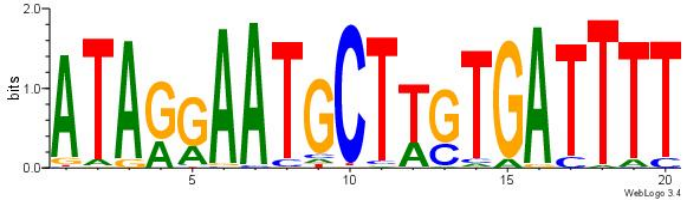

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.119085

Alignment:
GAAGGCAGCTAAGGCCCGGY
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

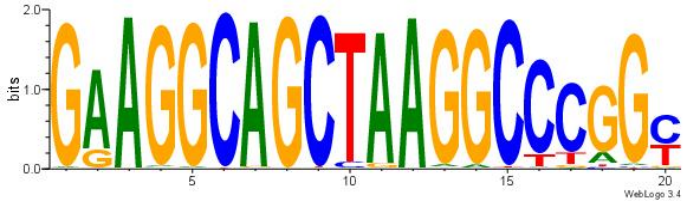

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

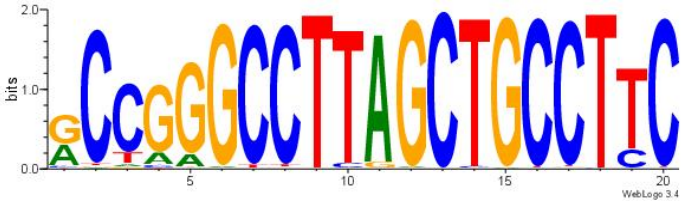

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120433

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

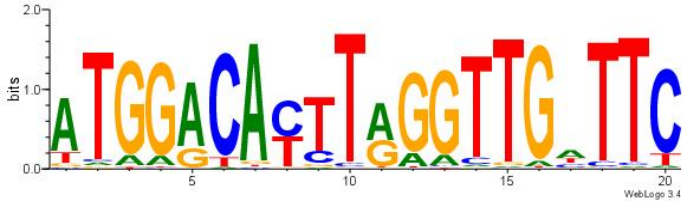

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

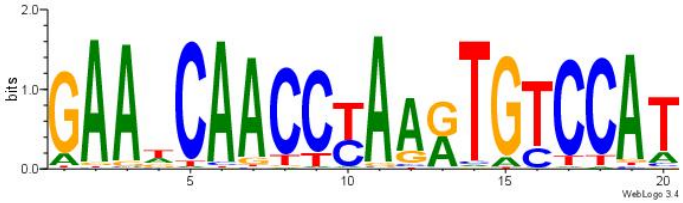

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121057

Alignment:
AGGCCCCAGTGTSTGTTGTT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

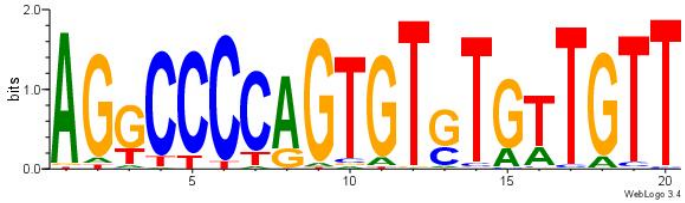

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

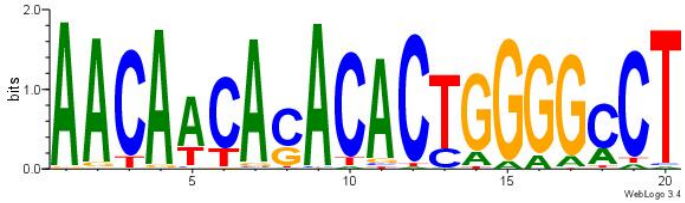

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.121173

Alignment:
TACCTGAGACTGGGTAATTT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

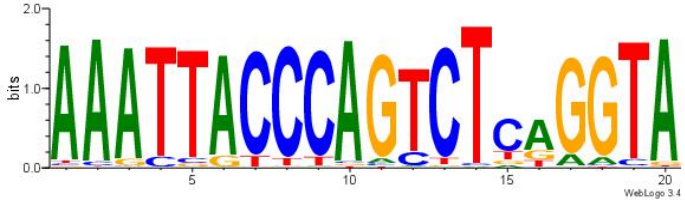

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

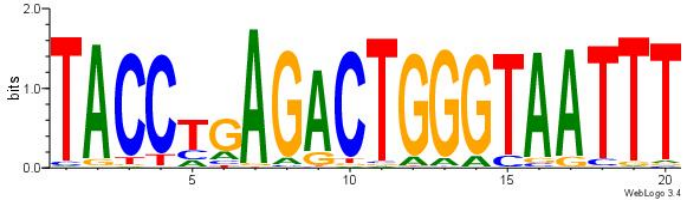

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.122015

Alignment:
CAAGGGTATAYGAGTAGCTG
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

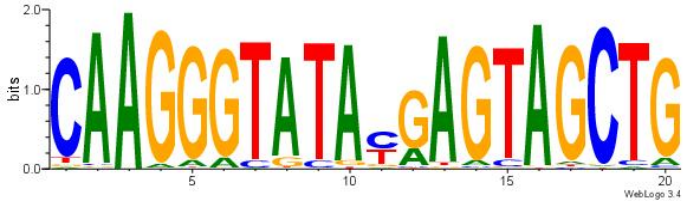

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

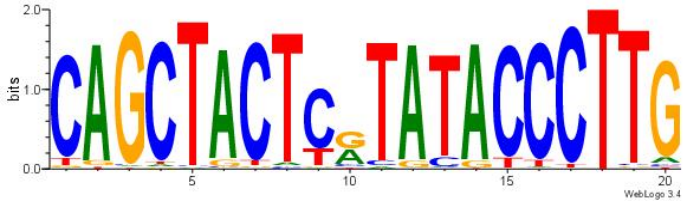

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122071

Alignment:

```
CACCAGACTCAGGAGCCCAG
VMATTTAKTGAGCACCTACT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

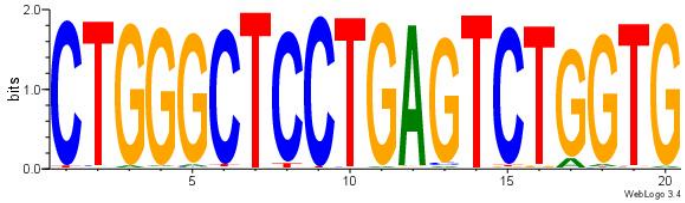

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

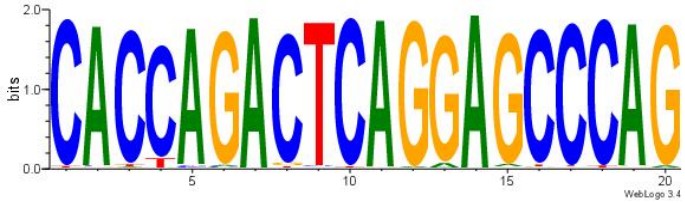

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122818

Alignment:
ACACATCACAAAGCAGTTTC
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

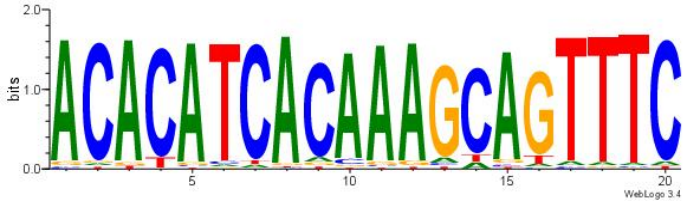

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

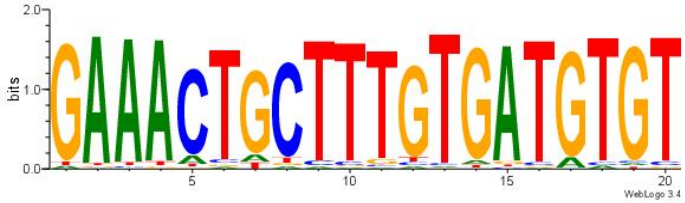

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.123081

Alignment:
GGCAATGCCTCGCCCTGCTT
AGTAGGTGCTCARTAAATRB

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

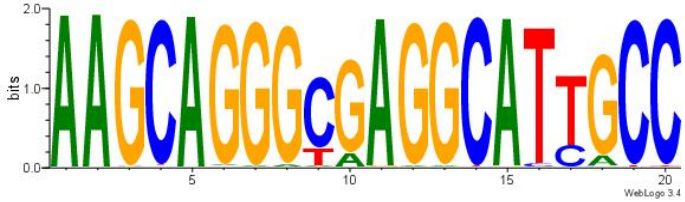

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

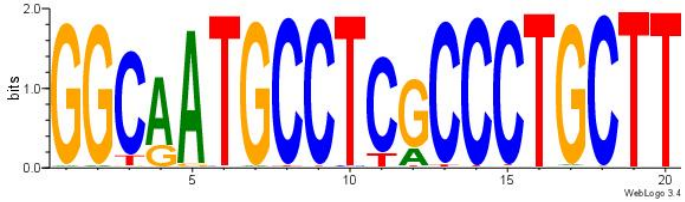

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.123473

Alignment:
GCACATGTAYCCYAGAACTT
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

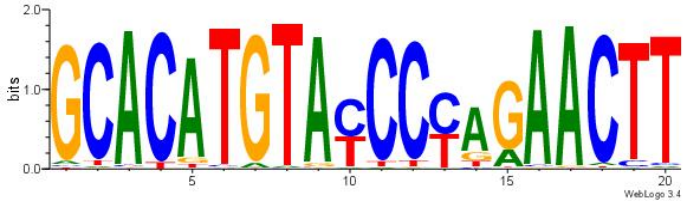

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

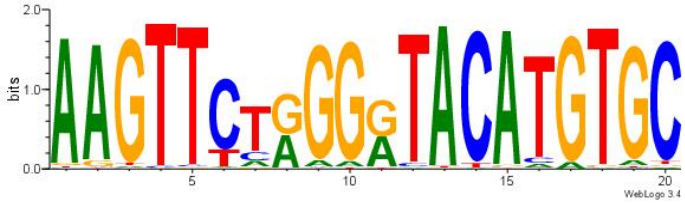

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124044

Alignment:

```
AAGACCTTCCAGTGGGACAA
AGTAGGTGCTCARTAAATRB
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

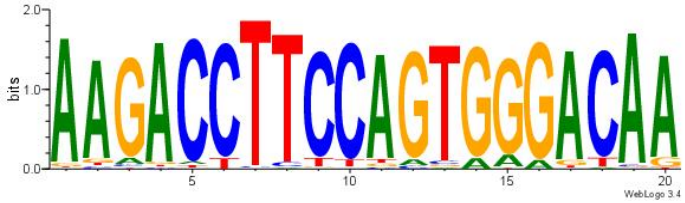

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

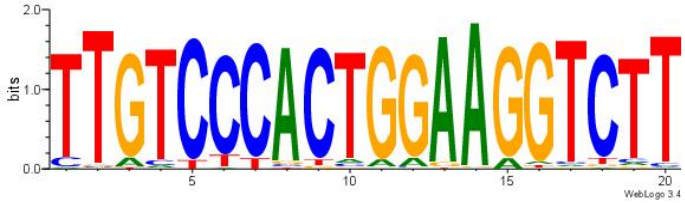

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124265

Alignment:

CCTGCCATTGCYSAGGCTTG
VMATTTAKTGAGCACCTACT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

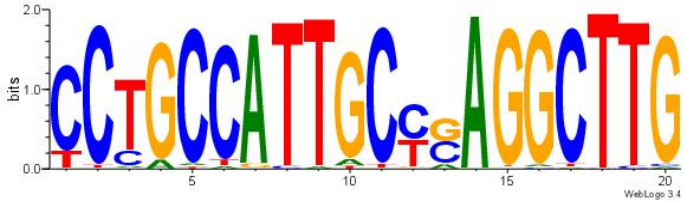

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

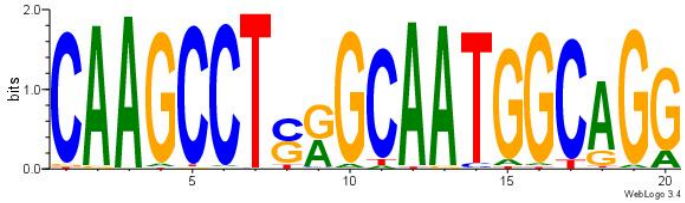

Dataset #: 1 Motif ID: 87 Motif name: Motif 87

Original motif Consensus sequence: CATGTGTGTCC

Reverse complement motif Consensus sequence: GGACACACATG

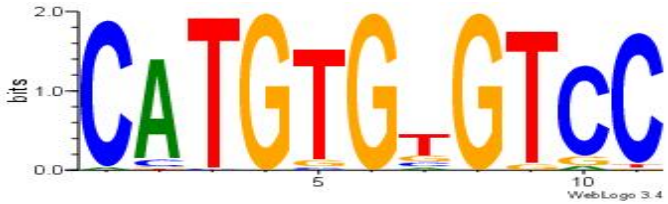

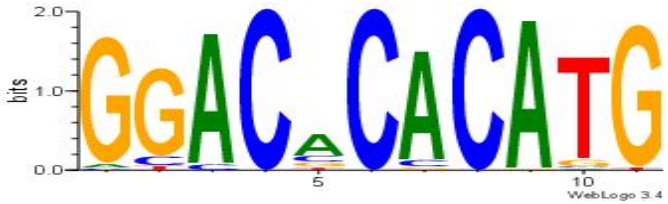

Best Matches for Motif ID 87 (Highest to Lowest)

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0574969

Alignment:

```
GCTCCWGTGYGKCC
---CATGTGTGTCC
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

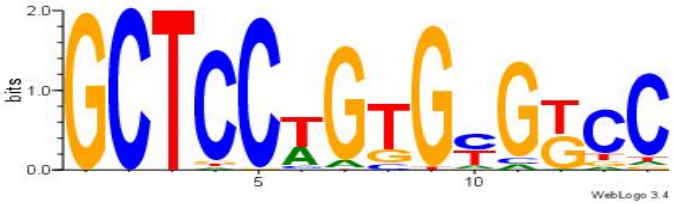

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1

Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.062082

Alignment:

```
CCATGTGSTCCC
-CATGTGTGTCC
```

Original motif Consensus sequence: CCATGTGSTCCC

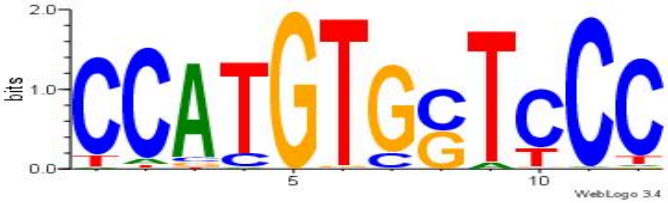

Reverse complement motif Consensus sequence: GGGASCACATGG

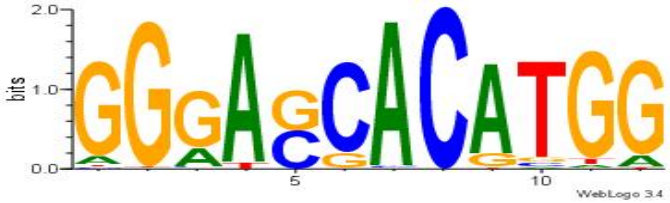

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0650944

Alignment:
GGRRMCAGATGT
GGACACACATG-

Original motif Consensus sequence: ACATCTGYMMCC

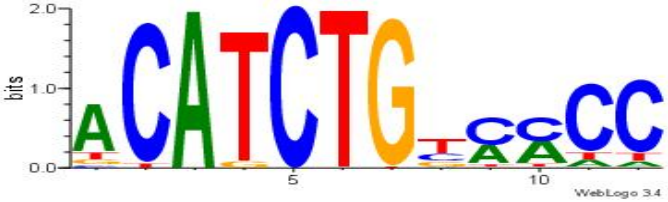

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0757271

Alignment:
CCCATGCAAGTCYRAAATCC
--CATGTGTGTCC-------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

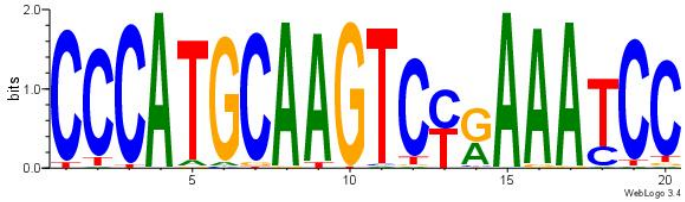

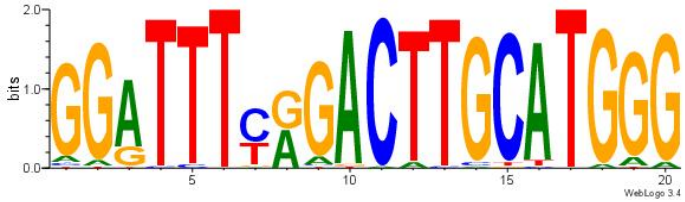

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.076468

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--CATGTGTGTCC-------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

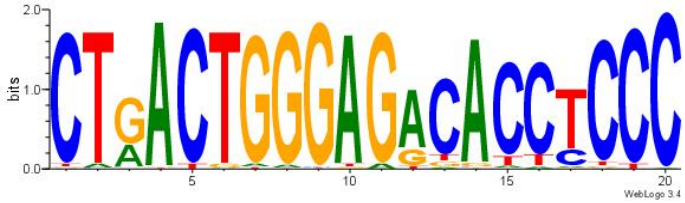

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

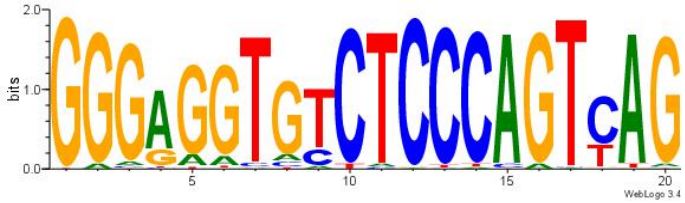

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0767772

Alignment:

```
GGATCCACTGGGTGAAGCCA
---------GGACACACATG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

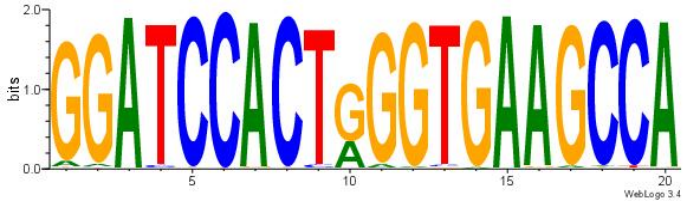

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

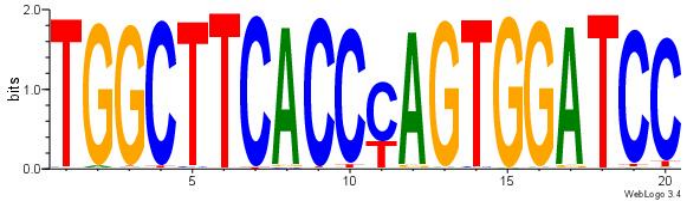

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0770468

Alignment:
GAGAACACATGGACA
GGACACACATG----

Original motif Consensus sequence: GAGAACACATGGACA

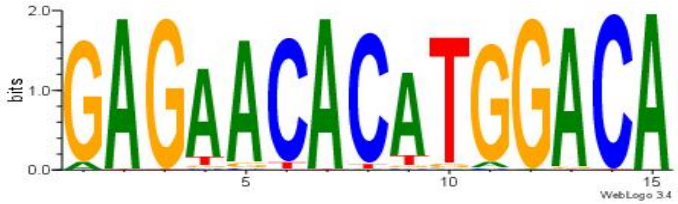

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

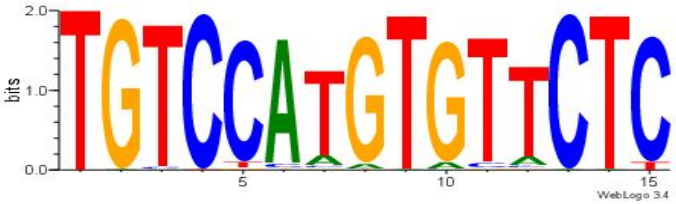

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0809325

Alignment:
HGCTCCTGTGSKCCC
----CATGTGTGTCC

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

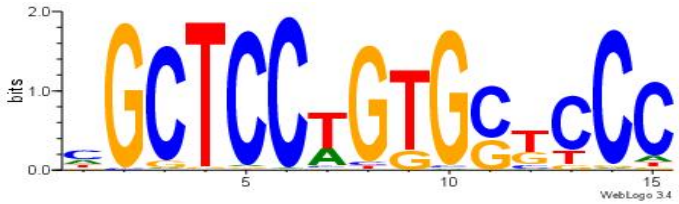

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0818919

Alignment:

```
TCAATGGGCTCCCAAATG
-------GGACACACATG
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

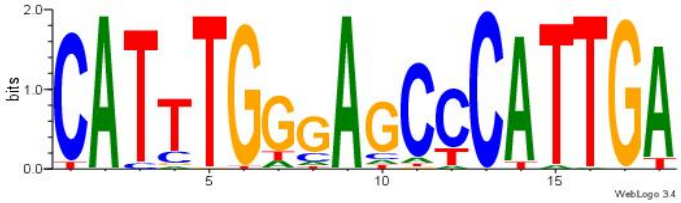

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

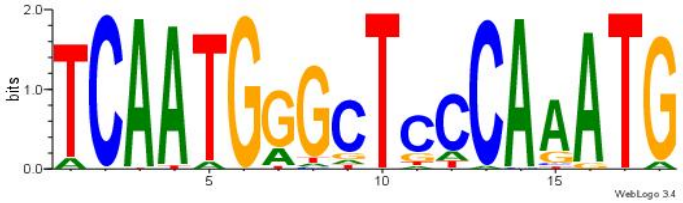

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0842344

Alignment:

```
CTTGCCCAAGGTCACACAGC
---------GGACACACATG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

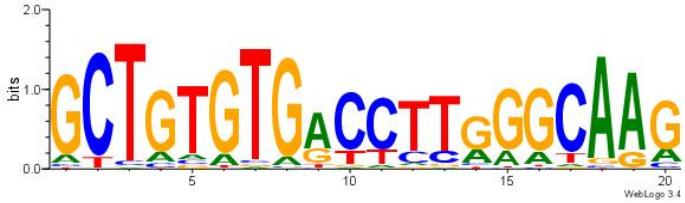

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

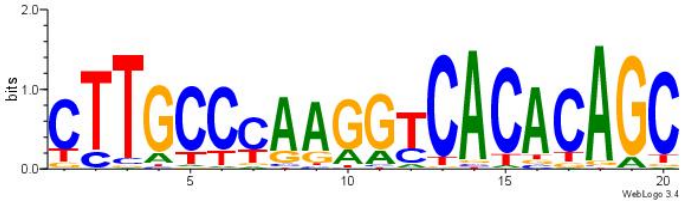

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0857365

Alignment:
CTTGCGCTTCCCRRGTGA
CATGTGTGTCC-------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

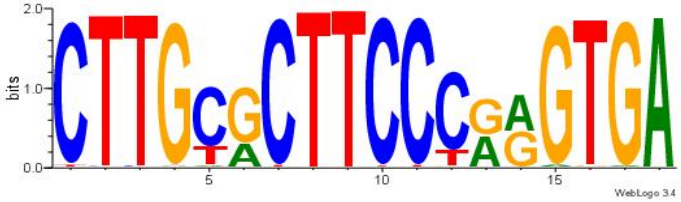

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

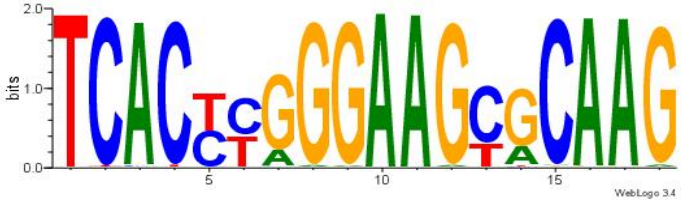

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0869788

Alignment:
GCACATGTAYCCYAGAACTT
-CATGTGTGTCC--------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

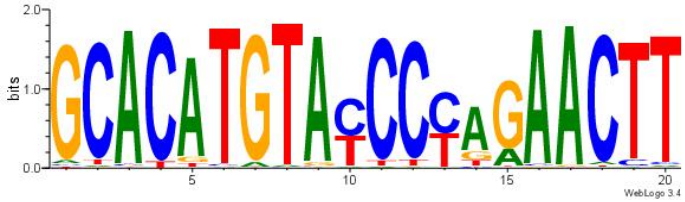

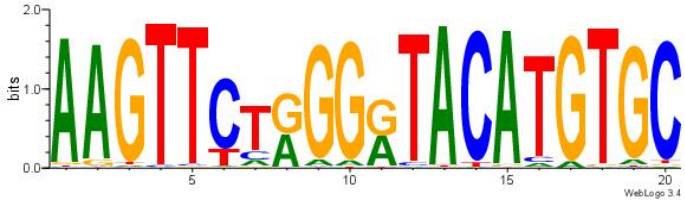

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0882602

Alignment:

```
CATCTGGAGCCCCA
CATGTGTGTCC---
```

Original motif Consensus sequence: CATCTGGAGCCCCA

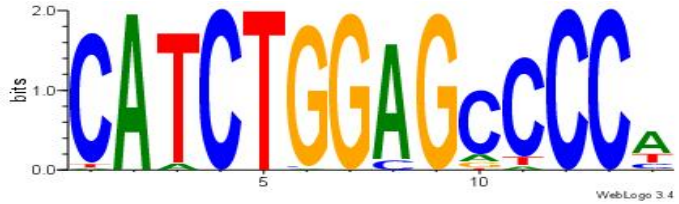

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

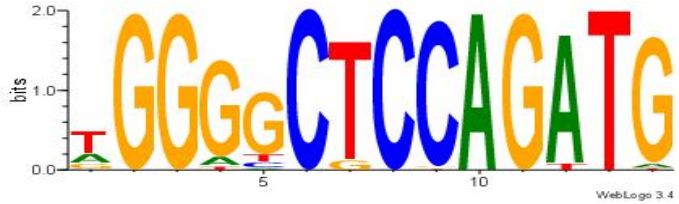

Dataset #:	1
Motif ID:	50

Motif name:	Motif 50
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0905176

Alignment:

```
GATGTGAGGGC
CATGTGTGTCC
```

Original motif Consensus sequence: GATGTGAGGGC

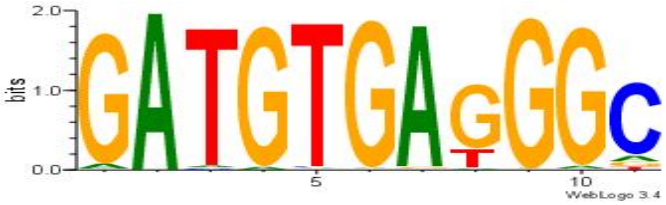

Reverse complement motif Consensus sequence: GCCCTCACATC

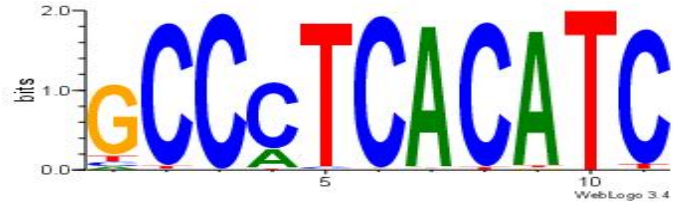

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.090835

Alignment:
TGCTCACACAAAGCCTGT
-GGACACACATG------

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

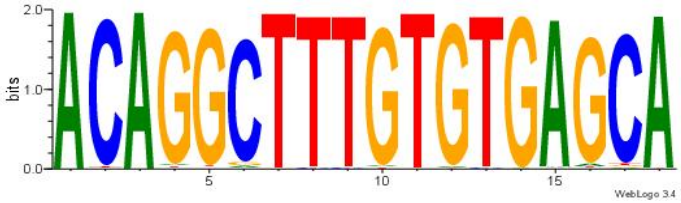

Reverse complement motif Consensus sequence:
TGCTCACACAAAGCCTGT

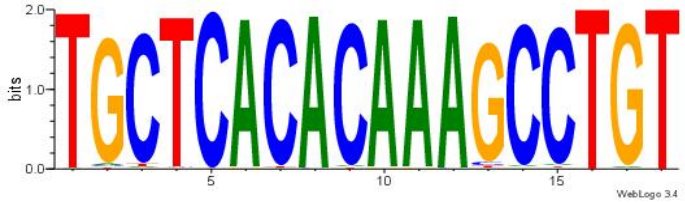

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0909864

Alignment:
CCTTTGACTCCATGTC
CATGTGTGTCC-----

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence:
CCTTTGACTCCATGTC

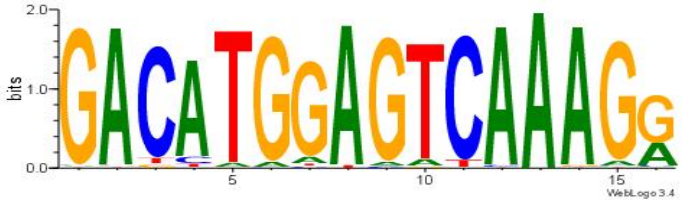

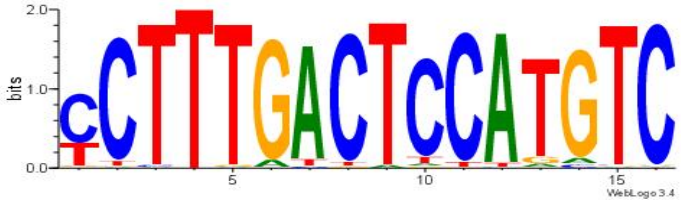

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0915061

Alignment:

```
GTCCCATCGACCACCCAAG
GGACACACATG--------
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

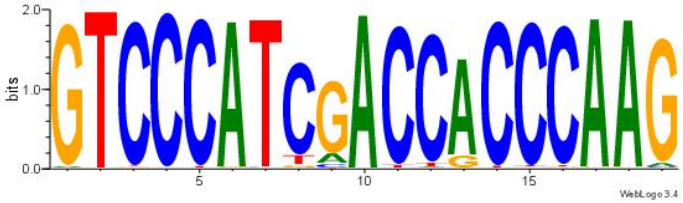

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

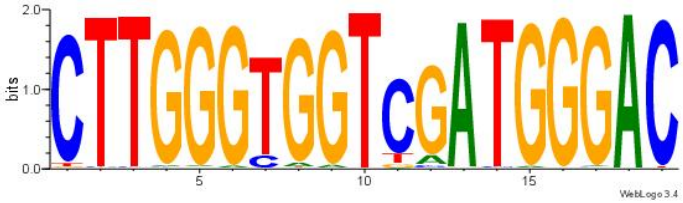

Dataset #: 1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0927711

Alignment:

```
GGGGTGACAGABGB
-GGACACACATG--
```

Original motif Consensus sequence: GGGGTGACAGABGB

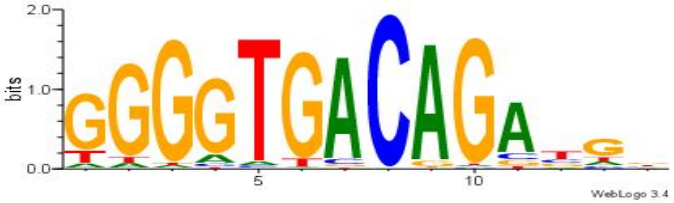

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

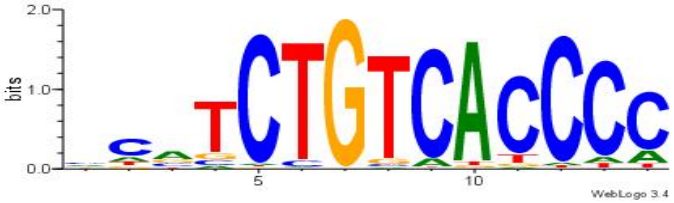

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0936285

Alignment:
ATACAATGGGGGTACAGRC
----CATGTGTGTCC----

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

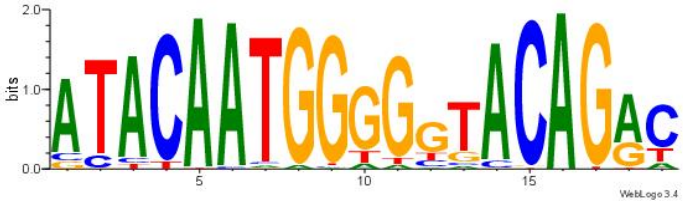

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

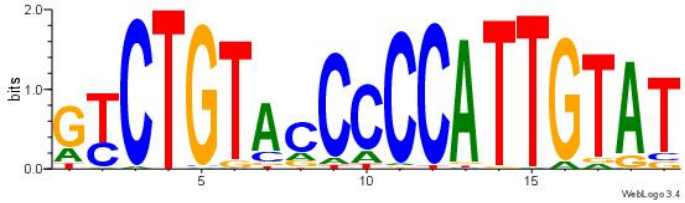

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0936808

Alignment:
TGTGTGTGTGTKTGTGTGT
--------CATGTGTGTCC

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

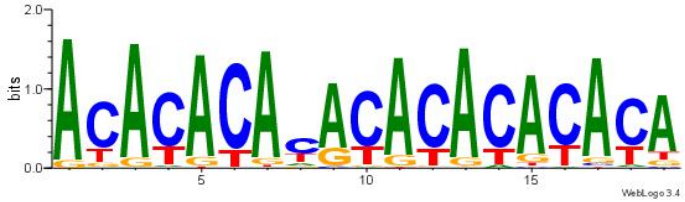

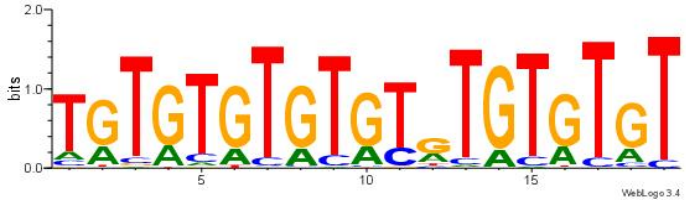

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0940515

Alignment:

```
CCTMACAATCATGG
--GGACACACATG-
```

Original motif Consensus sequence: CCATGATTGTRAGG

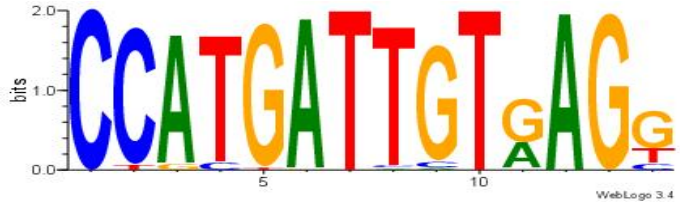

Reverse complement motif Consensus sequence: CCTMACAATCATG

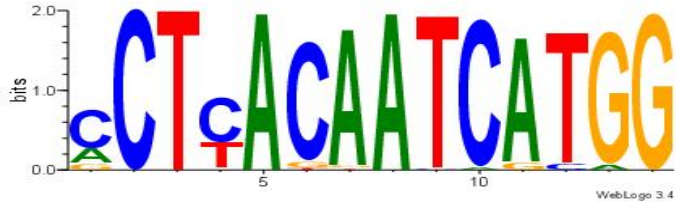

Dataset #:	1
Motif ID:	145

Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0941974

Alignment:

```
TYTGTCMTTTTGTGACTGGC
------CATGTGTGTCC---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

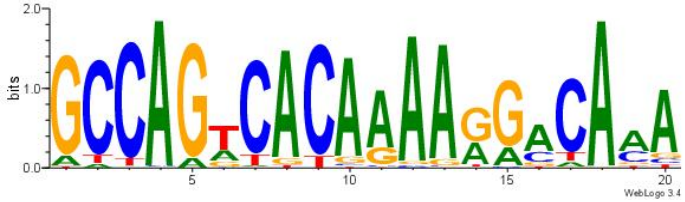

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

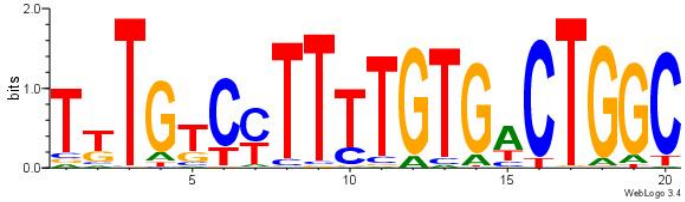

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0943268

Alignment:
CAACATGGATGRARCTGGAG
GGACACACATG---------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

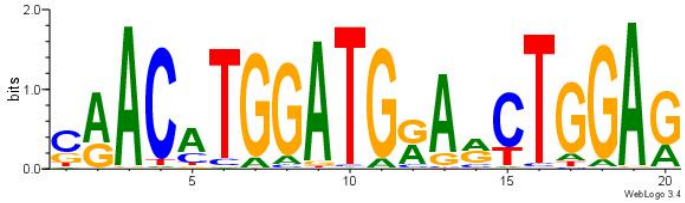

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

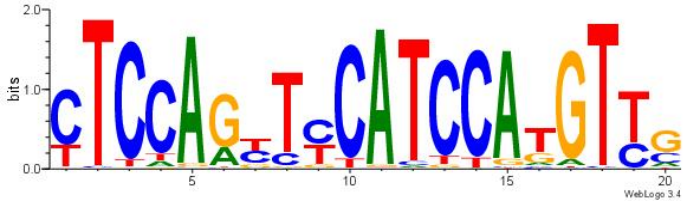

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0946319

Alignment:
ATGGACAYTTRGGTTGHTTC
-------GGACACACATG--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

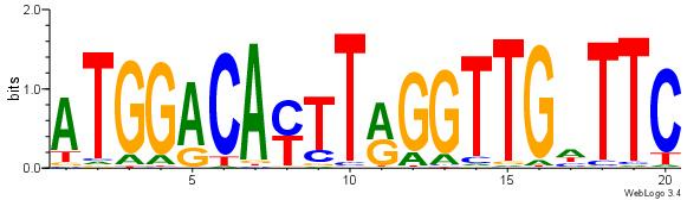

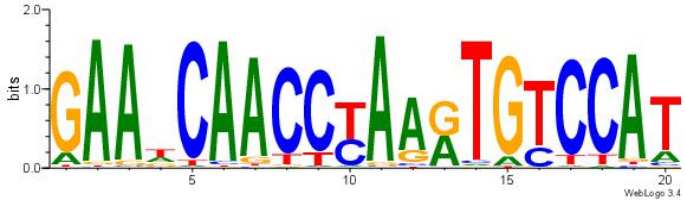

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0951063

Alignment:

```
CTGTTTGCCTGGGTATCA
-------CATGTGTGTCC
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

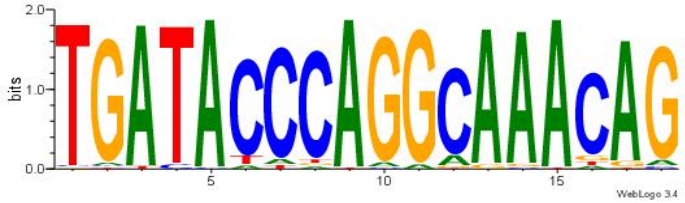

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

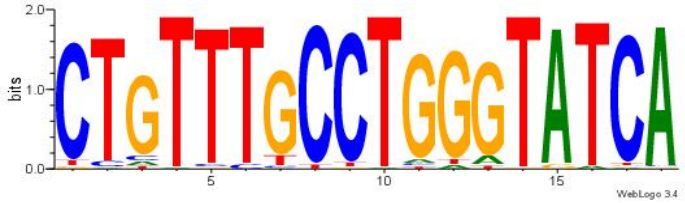

Dataset #:	1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0956422

Alignment:

```
MGGAAACTGAGGC
-GGACACACATG-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

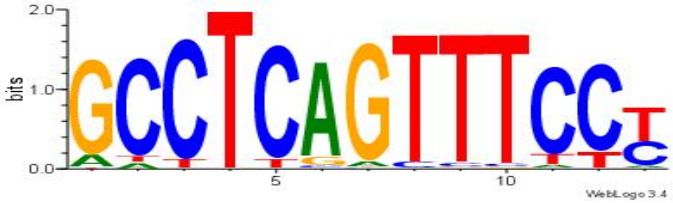

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

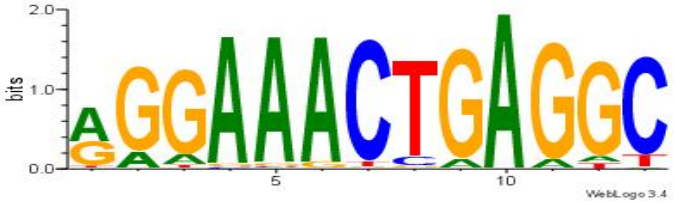

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0959386

Alignment:
AGAAAGGCATGTGAAAA
GGACACACATG------

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

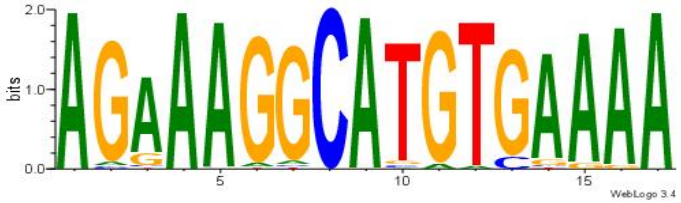

Reverse complement motif Consensus sequence:
TTTTCACATGCCTTTCT

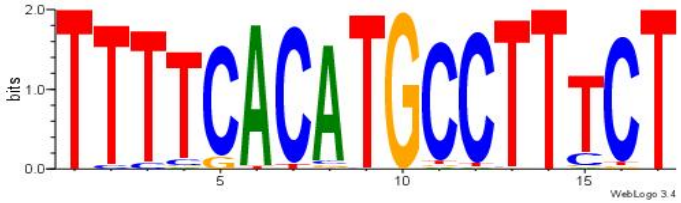

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0964153

Alignment:
AGGACTGAGGGTGCCYRGGG
---CATGTGTGTCC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

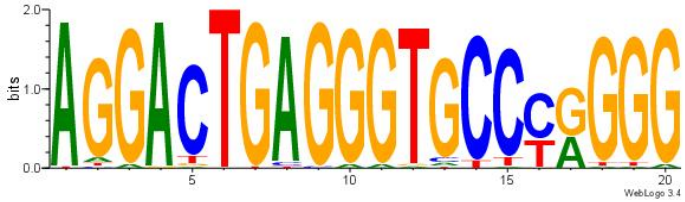

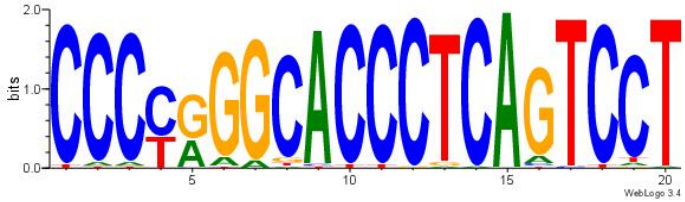

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0969475

Alignment:

```
CTCCAGACACATC
--GGACACACATG
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

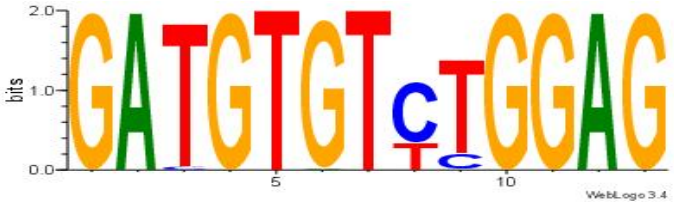

Dataset #:	1
Motif ID:	176

Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0976613

Alignment:

```
AACAACASACACTGGGGCCT
----GGACACACATG-----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

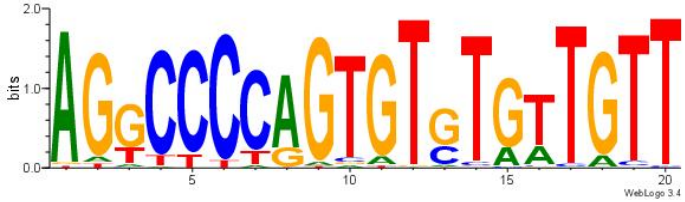

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

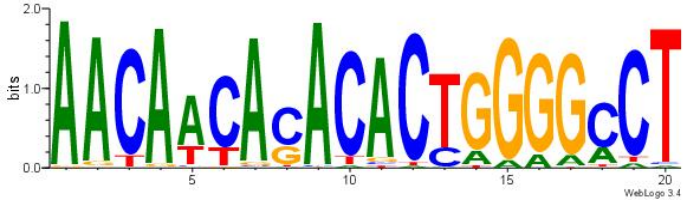

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0977543

Alignment:
AATTAAAAGACACAGACTG
-------GGACACACATG-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

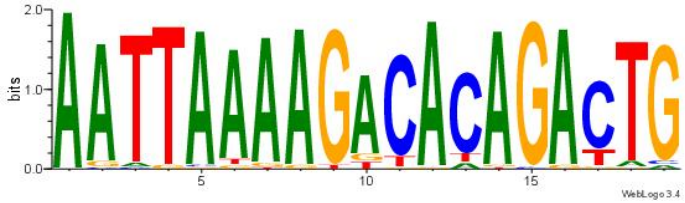

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

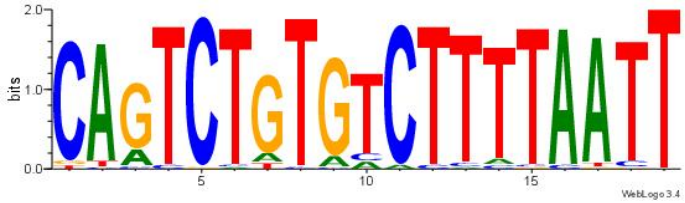

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.097978

Alignment:
CCGTGCGCGAGCCG
-CATGTGTGTCC--

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

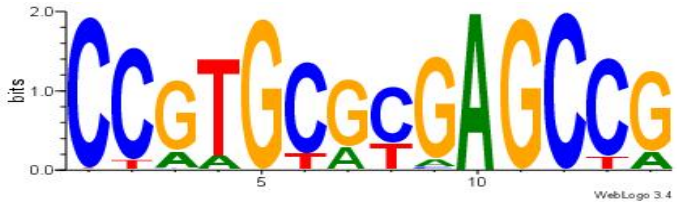

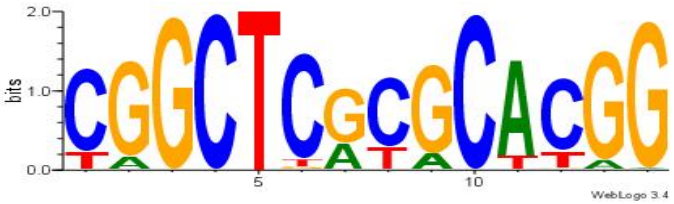

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0984413

Alignment:

```
GCTTCTGGTGAGGGC
----CATGTGTGTCC
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

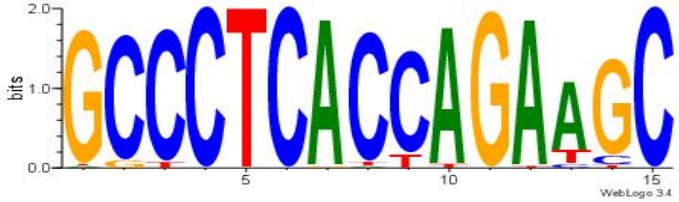

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

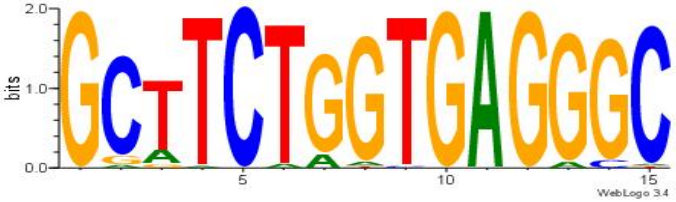

Dataset #:	1
Motif ID:	144

Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0992275

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-------CATGTGTGTCC--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

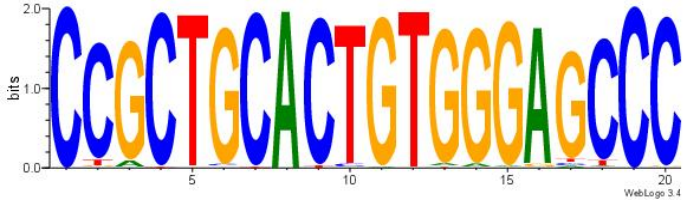

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

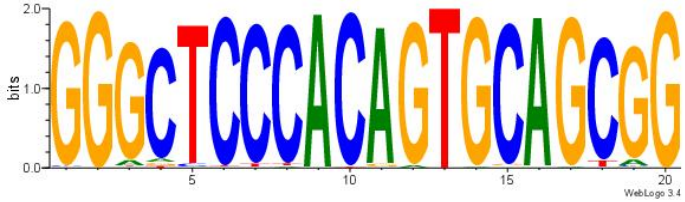

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0993831

Alignment:
GAAAGGGAACTCCCTGACCC
----GGACACACATG-----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

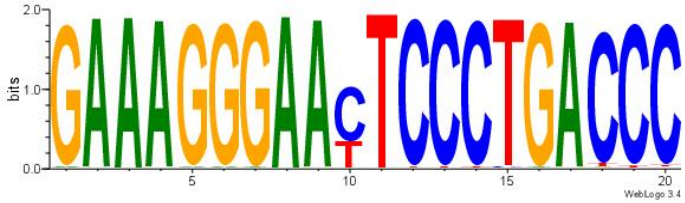

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

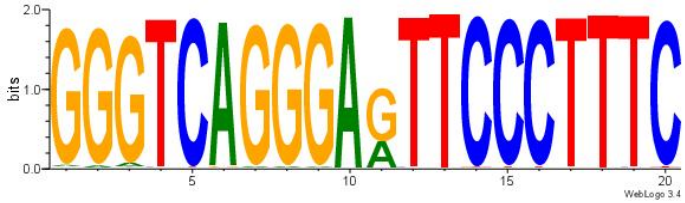

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.100367

Alignment:
GGGGGAGACATCACACR
-GGACACACATG-----

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence:
MGTGTGATGTCTCCCCC

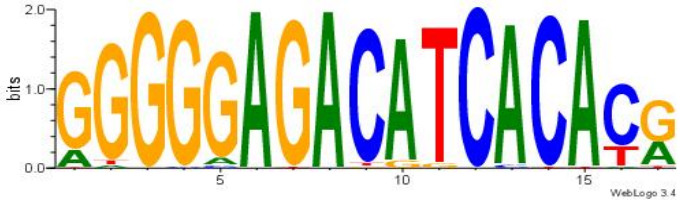

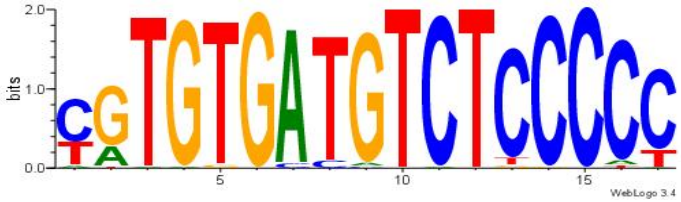

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.100551

Alignment:

```
CTGGGCRACAGAGYRAGACY
------GGACACACATG---
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

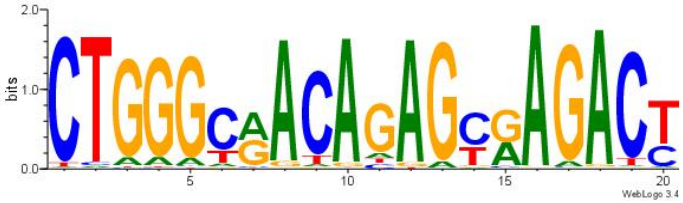

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

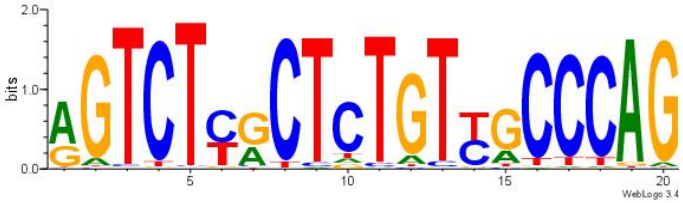

Dataset #: 1

Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.100923

Alignment:

```
CTGGGCACCATTGA
--GGACACACATG-
```

Original motif Consensus sequence: CTGGGCACCATTGA

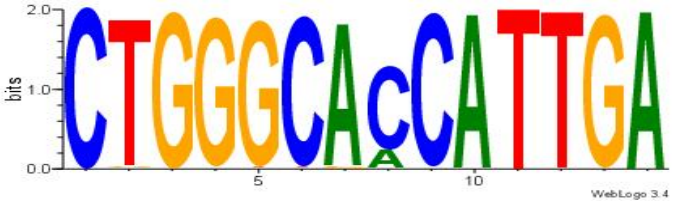

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

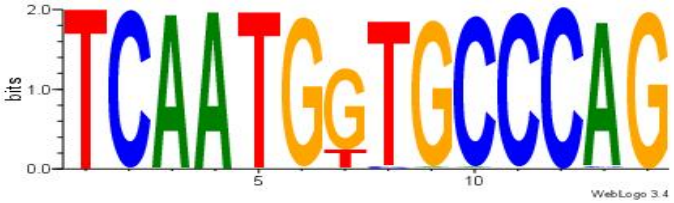

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.102035

Alignment:
CAAGTTGACACATAAAATTA
-----GGACACACATG----

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

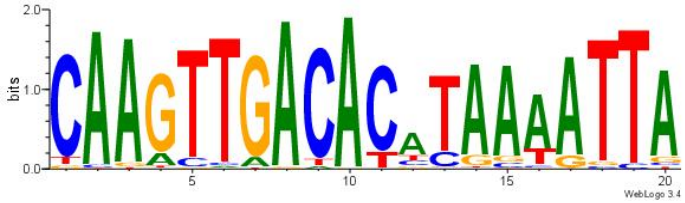

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

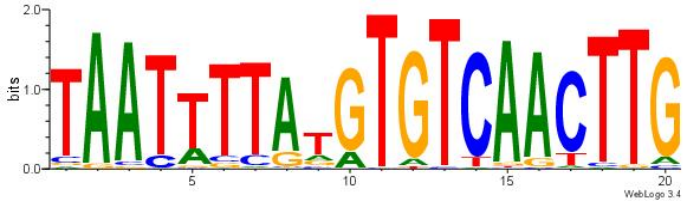

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.102182

Alignment:
AGACCAGCCTGGCCAAC
------GGACACACATG

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence:
GTTGGCCAGGCTGGTCT

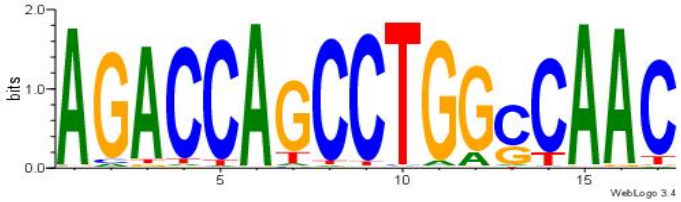

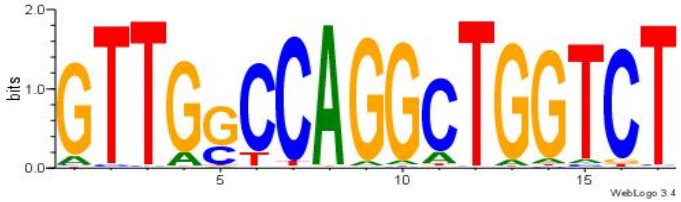

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.102351

Alignment:

```
CATGGCGGGCTGCAGGTC
CATGTGTGTCC-------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

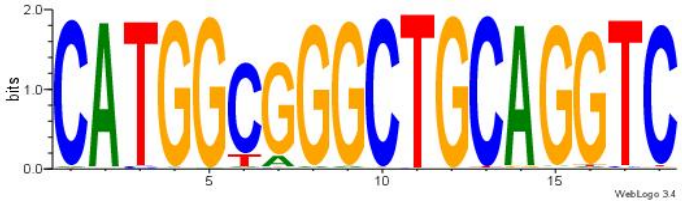

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

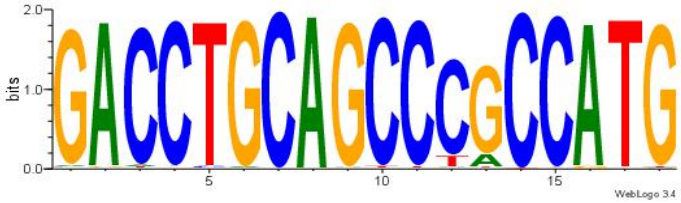

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.10255

Alignment:

```
CTAGACATAAAGGTTCTCCA
-------GGACACACATG--
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

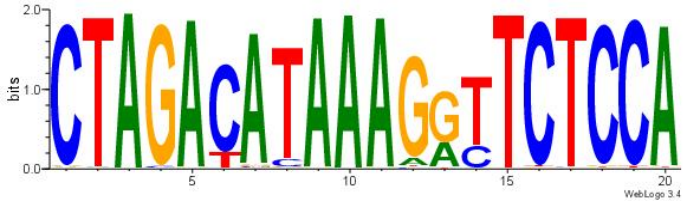

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

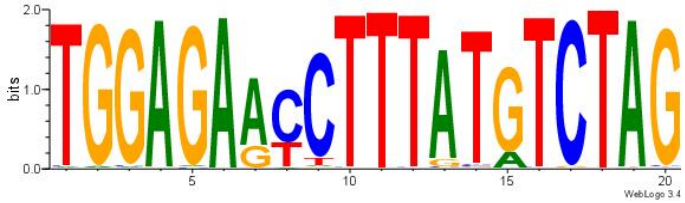

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.102702

Alignment:
GGAGGCKGAGG
GGACACACATG

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #: 1
Motif ID: 251
Motif name: Motif 251
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.102764

Alignment:
CGAGACCAGCCTG
--GGACACACATG

Original motif Consensus sequence: CAGGCTGGTCTCG

Reverse complement motif Consensus sequence: CGAGACCAGCCTG

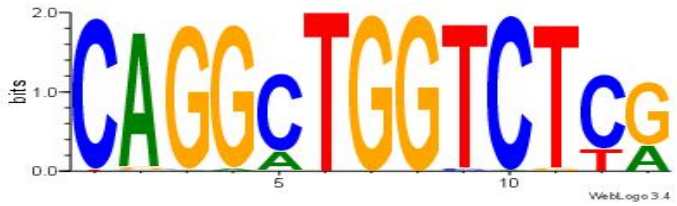

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.103402

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CATGTGTGTCC---------
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

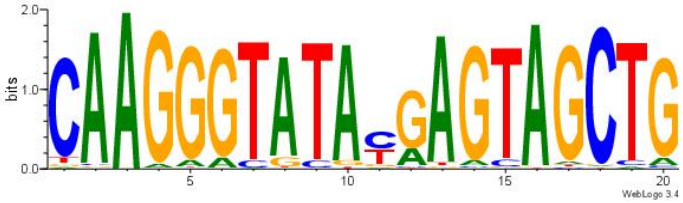

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

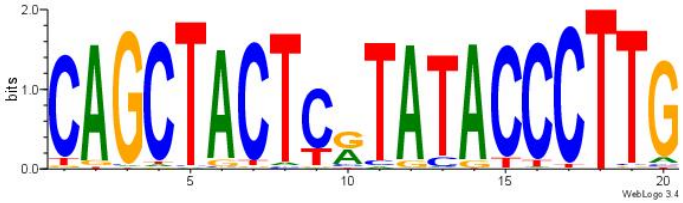

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.103455

Alignment:

```
TAAGTGGGAGCTAARC
CATGTGTGTCC-----
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

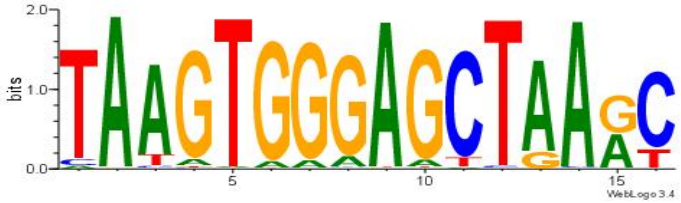

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

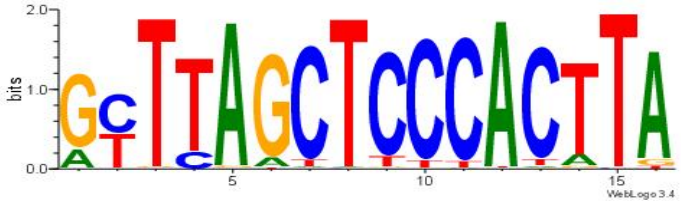

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.103641

Alignment:
CCATGGCGTCC
CATGTGTGTCC

Original motif Consensus sequence: CCATGGCGTCC

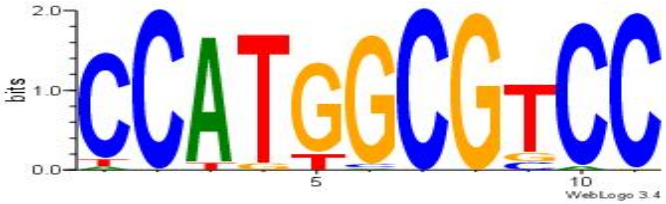

Reverse complement motif Consensus sequence: GGACGCCATGG

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.103838

Alignment:
TTTGGTGCACCCATCA
----GGACACACATG-

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

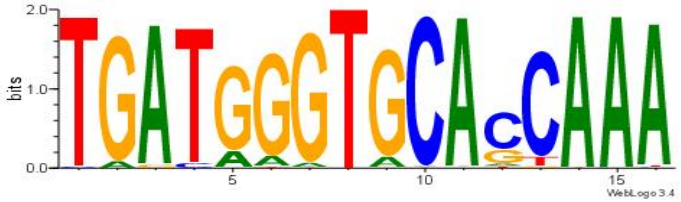

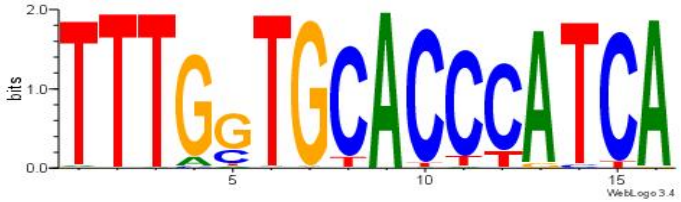

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.104487

Alignment:

```
GGGAGGGATATATTAGC
-GGACACACATG-----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

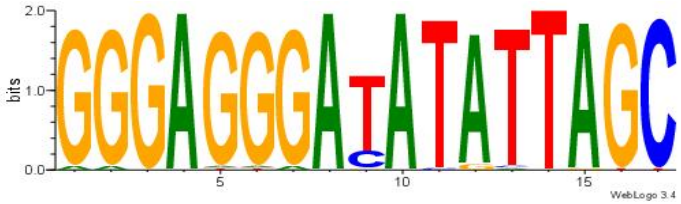

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

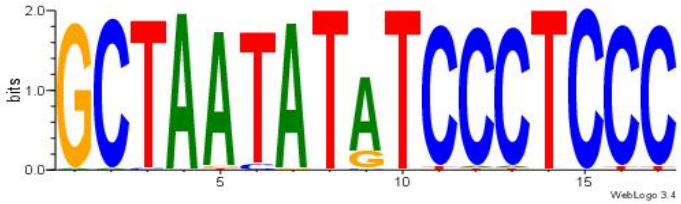

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.104632

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
------GGACACACATG---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

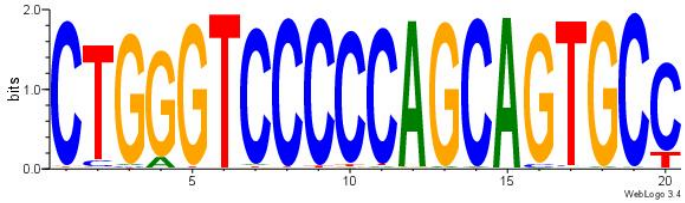

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

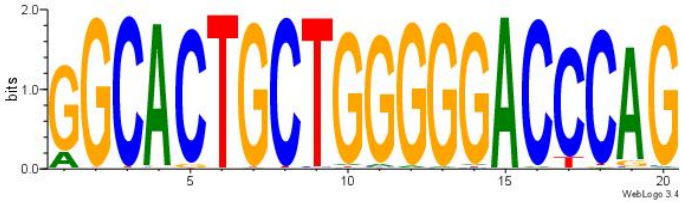

Dataset #: 1 Motif ID: 88 Motif name: Motif 88

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

Best Matches for Motif ID 88 (Highest to Lowest)

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0744827

Alignment:

```
GTAGACKGGAGCTGTTCCT
---ACCGGGGCTGCA----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

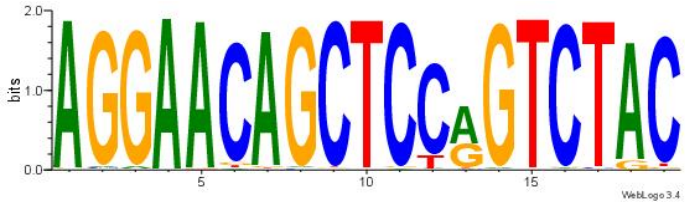

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

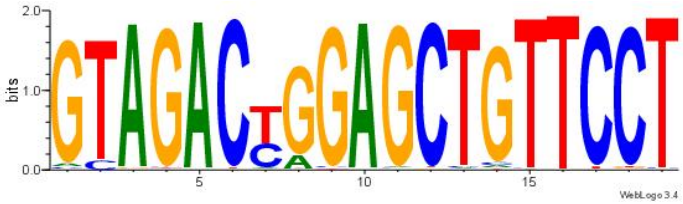

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0782839

Alignment:
AGACAGTGGGYGCAGGHCA
--ACCGGGGCTGCA-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

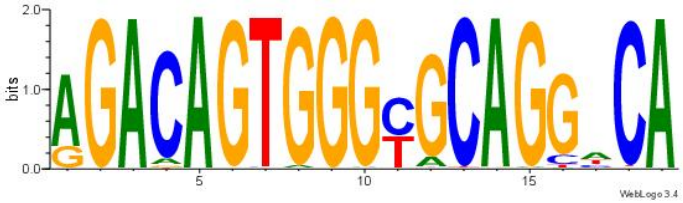

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

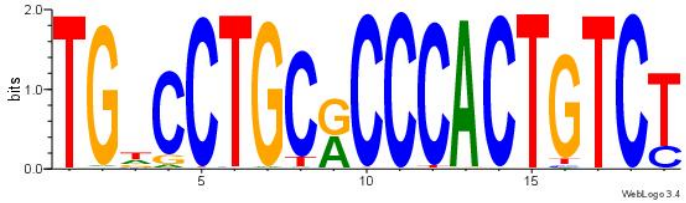

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0814191

Alignment:
CCCMKGGCACCCTCAGTCCT
-----TGCAGCCCCGGT---

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

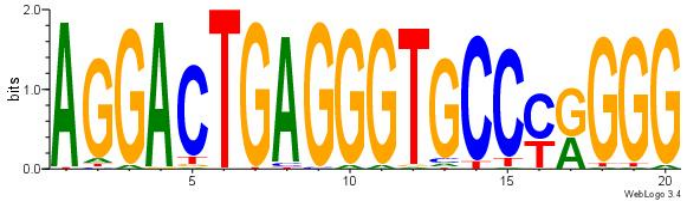

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

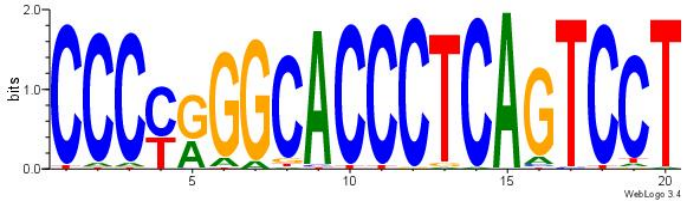

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0835295

Alignment:

```
GACCTGCAGCCCGCCATG
----TGCAGCCCCGGT--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

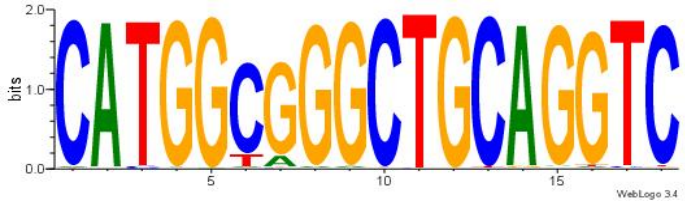

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

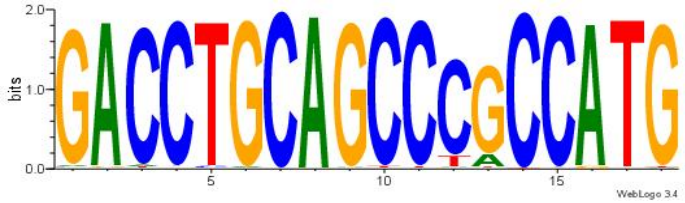

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0835511

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
ACCGGGGCTGCA--------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

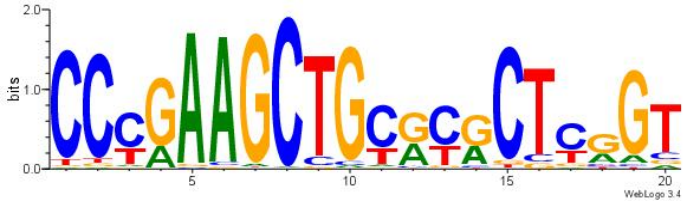

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

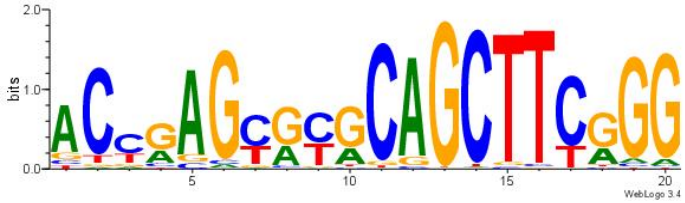

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 12
Similarity score: 0.0837731

Alignment:
GCTGCARTCTCGGCACTTT
--TGCAGCCCCGGT-----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

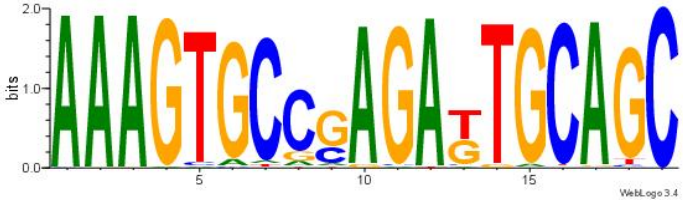

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

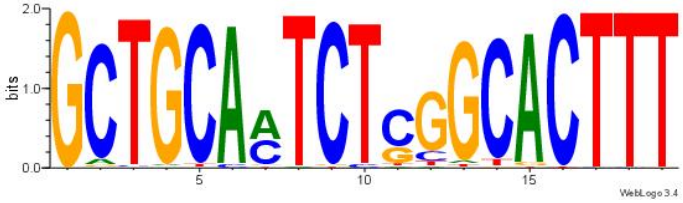

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0867169

Alignment:
AGGGATCTAGGTTGCR
----ACCGGGGCTGCA

Original motif Consensus sequence: AGGGATCTAGGTTGCR

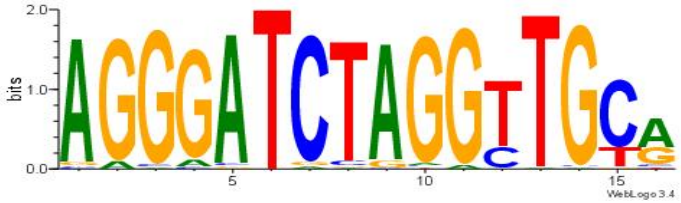

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

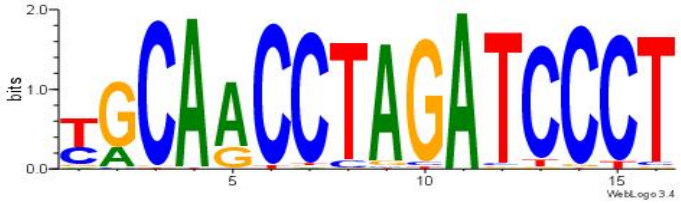

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0879916

Alignment:

```
CAAGCGCCAGCTCATGTC
-----TGCAGCCCCGGT-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

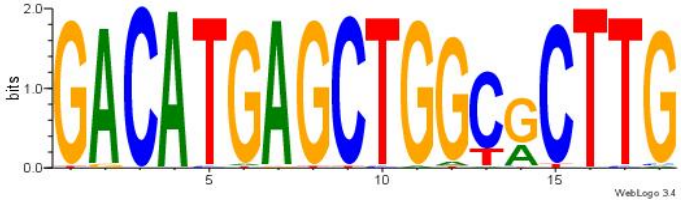

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

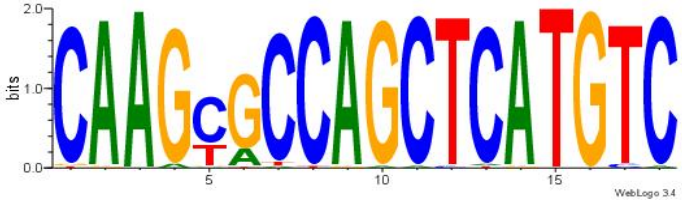

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0882584

Alignment:

```
ATACAATGGGGGTACAGRC
----ACCGGGGCTGCA---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

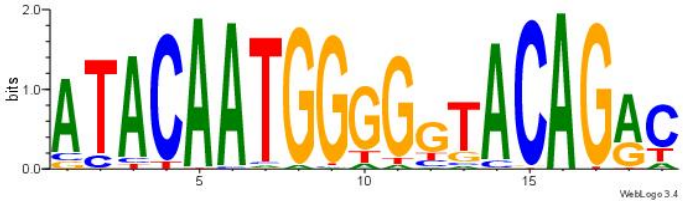

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

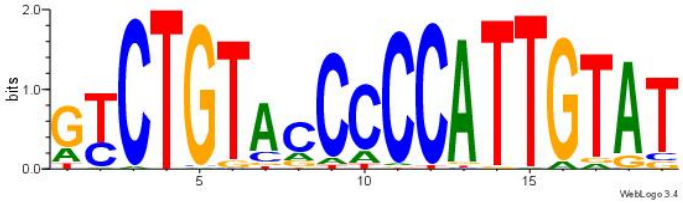

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 12
Similarity score: 0.0908953

Alignment:
GCCRGCCCTGCYGGCC
ACCGGGGCTGCA----

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

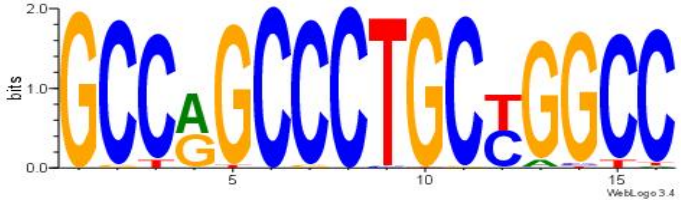

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

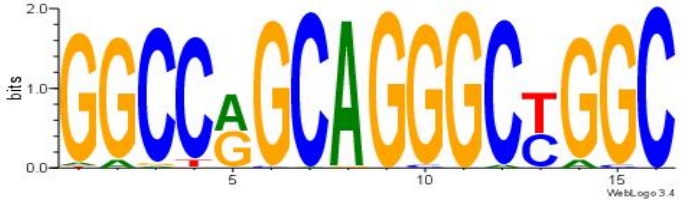

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0916804

Alignment:
TCACKMGGGAAGCGCAAG
----ACCGGGGCTGCA--

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

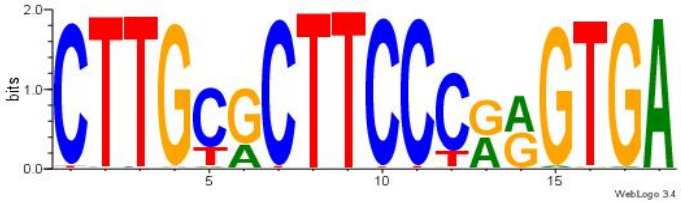

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

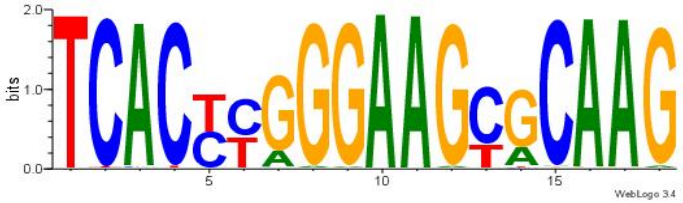

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0940314

Alignment:

```
ACTCAGCCCRCCTGCACCC
----ACCGGGGCTGCA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

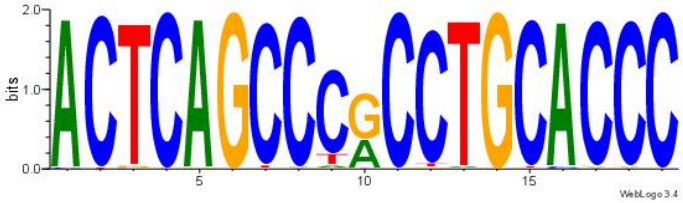

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

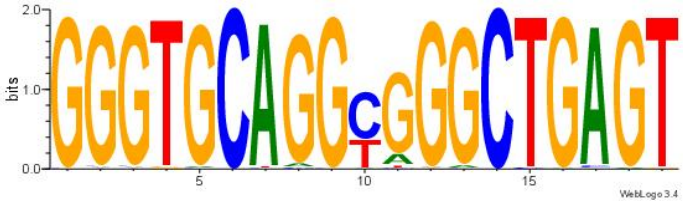

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0950735

Alignment:

```
GCTGGGATTACAGG
ACCGGGGCTGCA--
```

Original motif Consensus sequence: GCTGGGATTACAGG

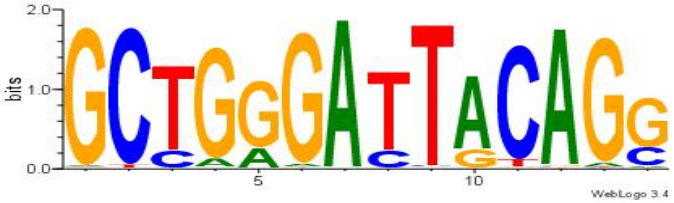

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0965925

Alignment:
CACCTCCCAGACMGGGT
-----TGCAGCCCCGGT

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

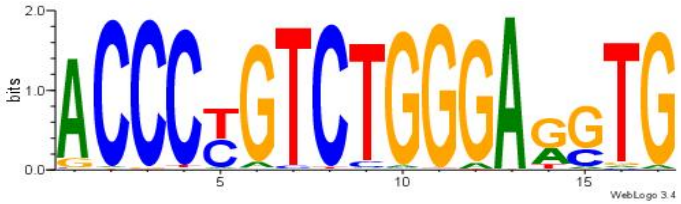

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

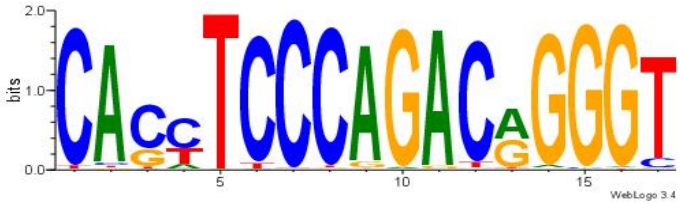

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0971144

Alignment:
KCCGGGCCTTAGCTGCCTTC
---ACCGGGGCTGCA-----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

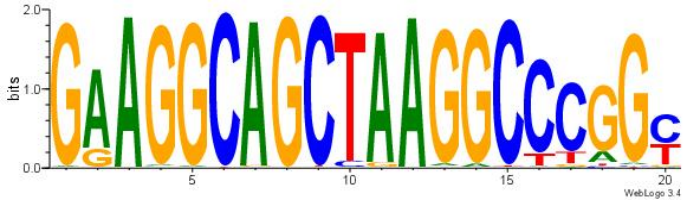

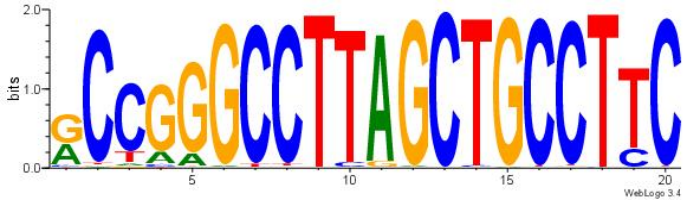

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0978415

Alignment:

```
GCTGGCCCKGGTGCTAAGC
TGCAGCCCCGGT-------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

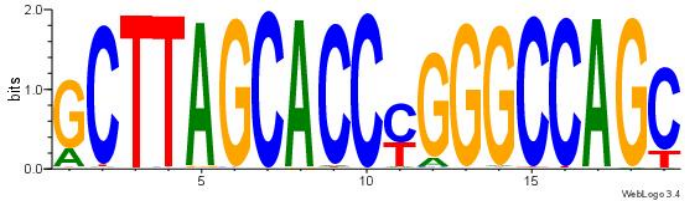

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

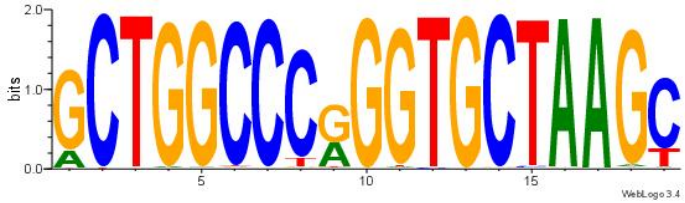

Dataset #: 1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0979061

Alignment:

```
CCTTGGCCAGCCCAGAAAG
-----TGCAGCCCCGGT--
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

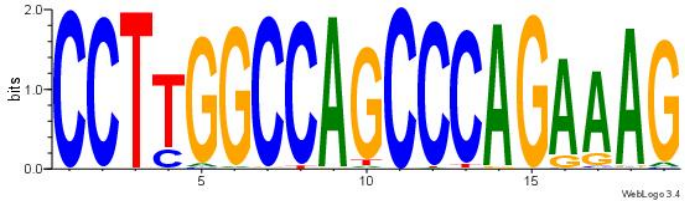

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

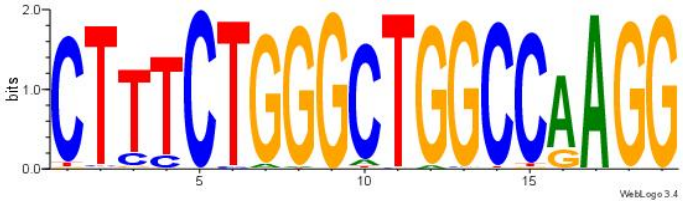

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12

Similarity score: 0.0979308

Alignment:
GGTGGAGCTGCCTGCCAGTC
--------ACCGGGGCTGCA

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

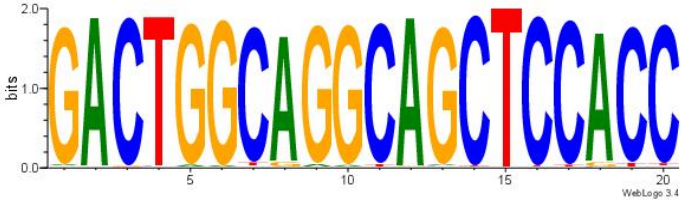

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

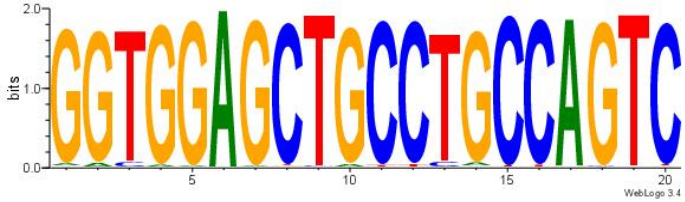

Dataset #: 1
Motif ID: 263
Motif name: Motif 263
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0987788

Alignment:
GGCAGAGCTGGG
TGCAGCCCCGGT

Original motif Consensus sequence: CCCAGCTCTGCC

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

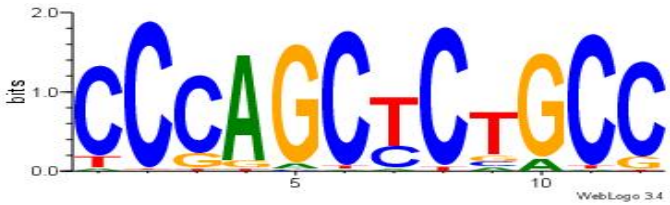

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0989509

Alignment:

```
CCACCACAGCTCAAGGAGGC
--ACCGGGGCTGCA------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

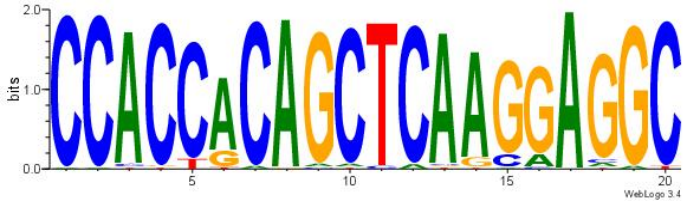

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

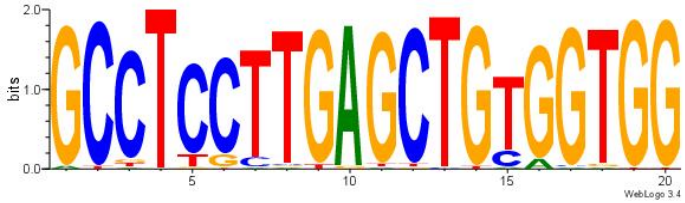

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0989532

Alignment:

```
CGAGCCCTGCCCCGCGG
-TGCAGCCCCGGT----
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

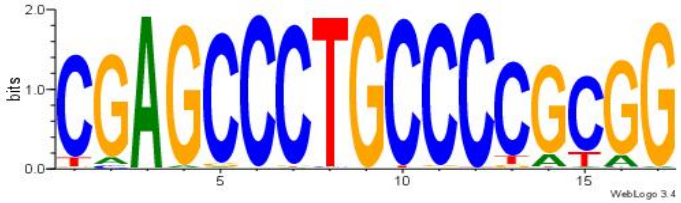

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

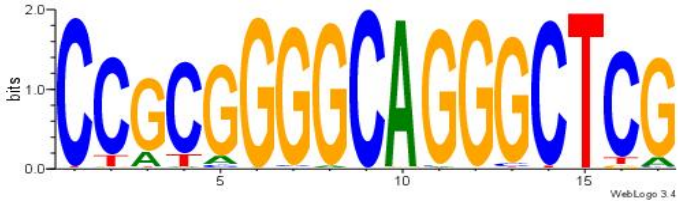

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0991111

Alignment:
AGTTCCGGGTGGGCGTGGG
---ACCGGGGCTGCA----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

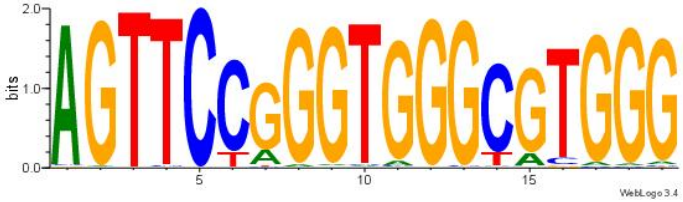

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

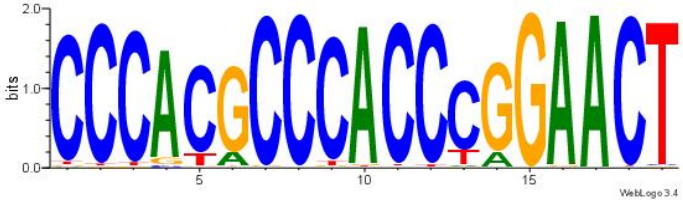

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0995477

Alignment:
ACAGGCTGTCCCAGGATTC
---TGCAGCCCCGGT----

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

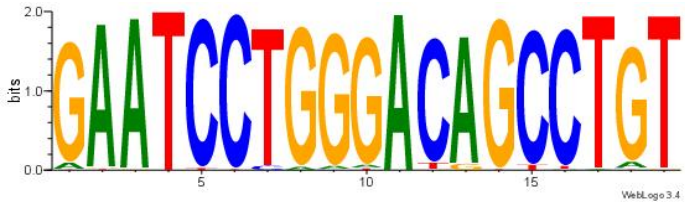

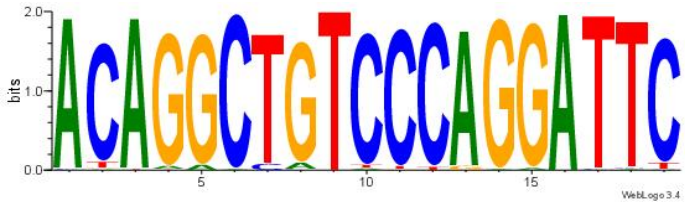

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0997365

Alignment:

```
GCGGCGGCGGCG
ACCGGGGCTGCA
```

Original motif Consensus sequence: CGCCGCCGCCGC

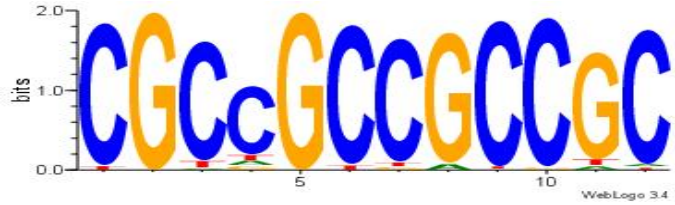

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

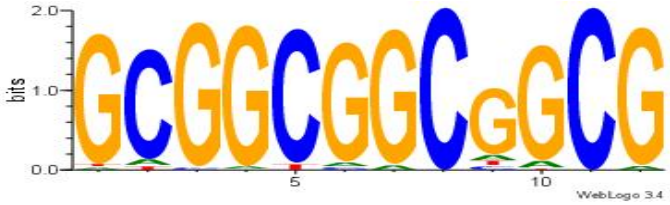

Dataset #:	1
Motif ID:	266

Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0998182

Alignment:

```
TGCTGCTGCTGC
TGCAGCCCCGGT
```

Original motif Consensus sequence: GCAGCAGCAGCA

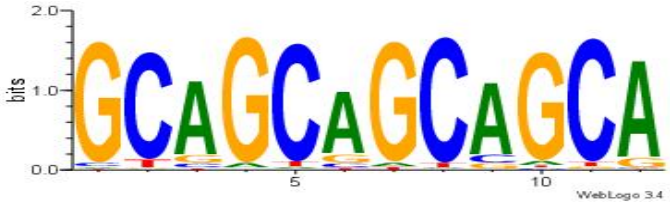

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

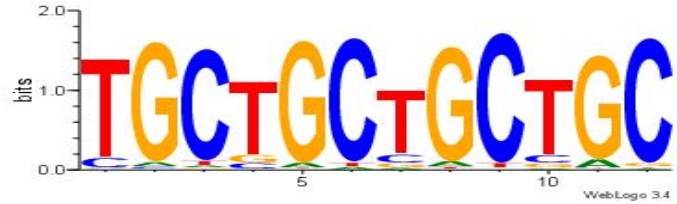

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0998296

Alignment:
GCCGGGRAGAGGCGCTCCT
ACCGGGGCTGCA-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

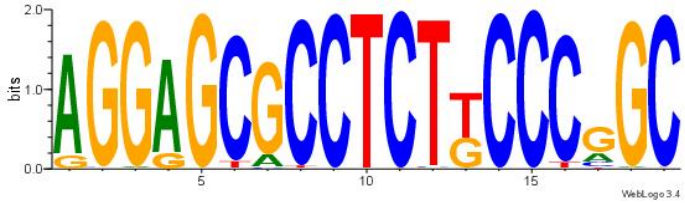

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

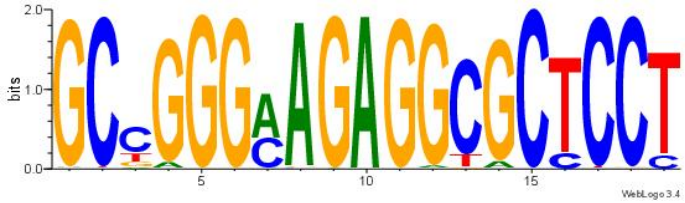

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0999113

Alignment:
MGCTGAGGCAGGAG
-ACCGGGGCTGCA-

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

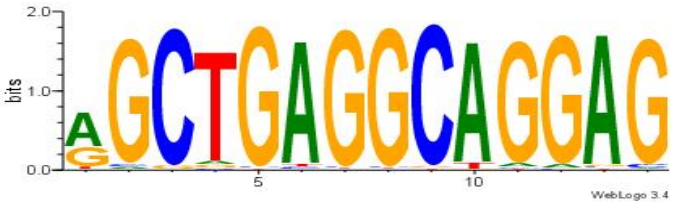

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.100281

Alignment:

```
GCGGCTGGCCGGGCG
--TGCAGCCCCGGT-
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

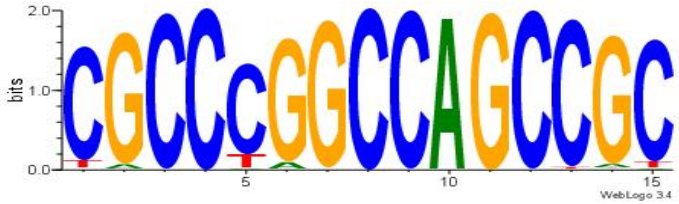

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

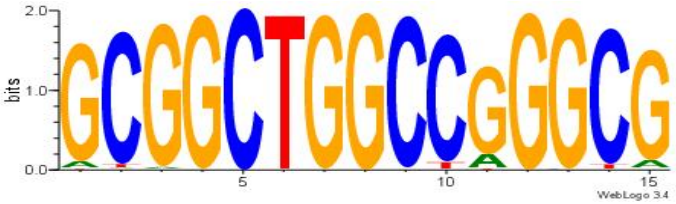

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.100821

Alignment:

```
AATCAACCCTGGYRATCAAT
-TGCAGCCCCGGT-------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

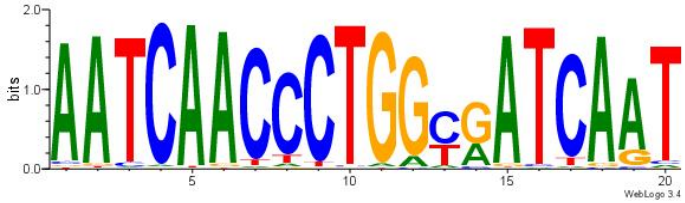

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

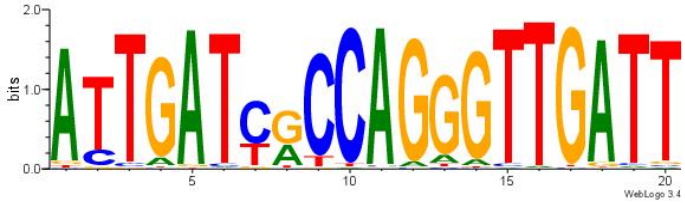

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.100955

Alignment:
TGATGGGTGCACCAAA
--ACCGGGGCTGCA--

Original motif Consensus sequence: TGATGGGTGCACCAAA

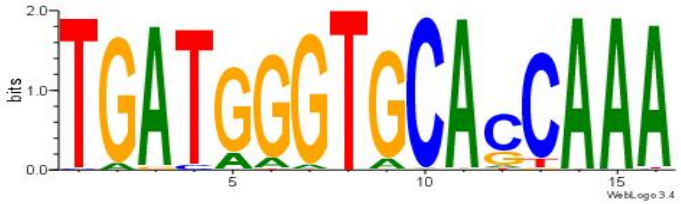

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

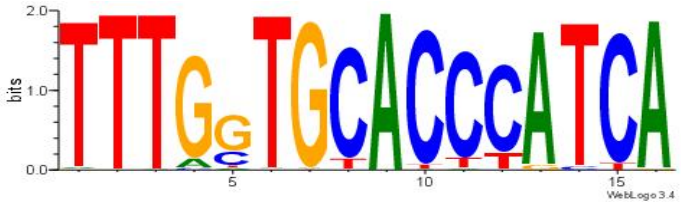

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.101231

Alignment:
GGGCTCCCACAGTGCAGCGG
-TGCAGCCCCGGT-------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

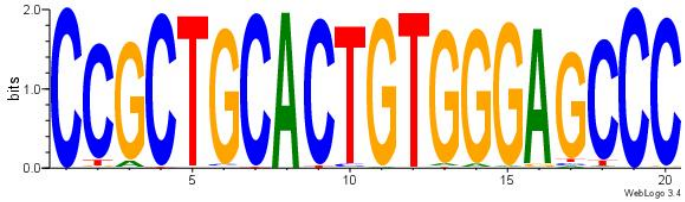

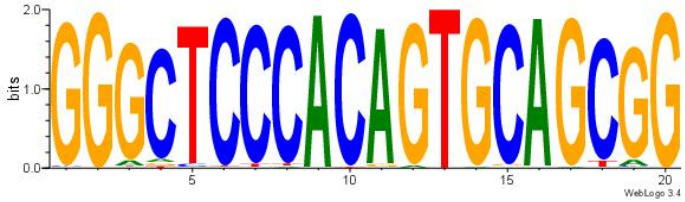

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.101612

Alignment:

```
TGGAGAACCTTTATGTCTAG
TGCAGCCCCGGT--------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

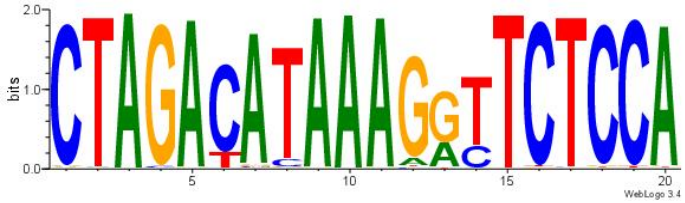

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

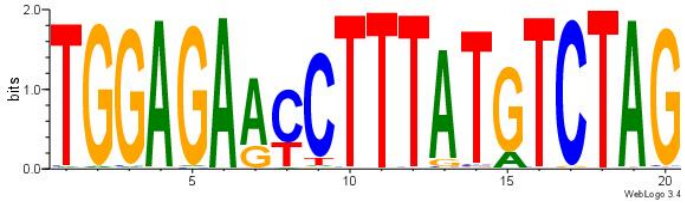

Dataset #:	1

Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.101804

Alignment:

```
GTAGCTGGGAYTACA
---ACCGGGGCTGCA
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

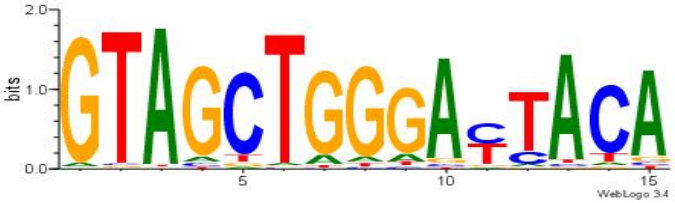

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

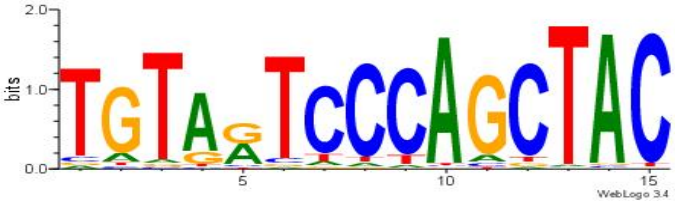

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.102081

Alignment:
CCCCGGGCAGTGAGGG
ACCGGGGCTGCA----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

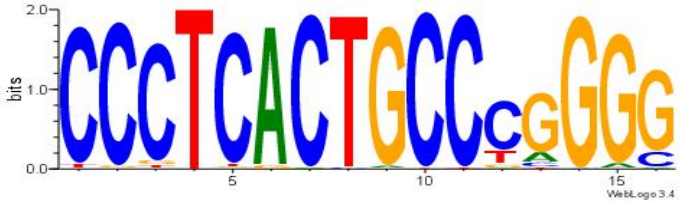

Reverse complement motif Consensus sequence:
CCCCGGGCAGTGAGGG

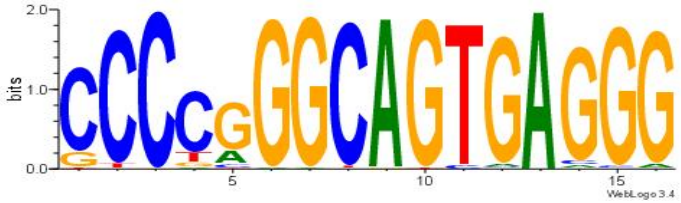

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.103596

Alignment:
CTCCAGKTMCATCCATGTTG
-------TGCAGCCCCGGT-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

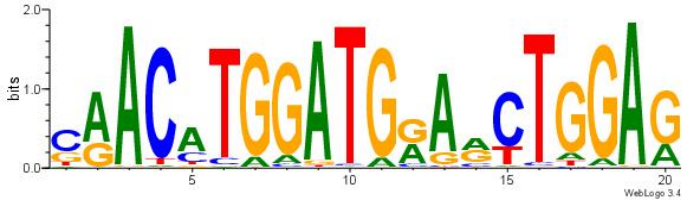

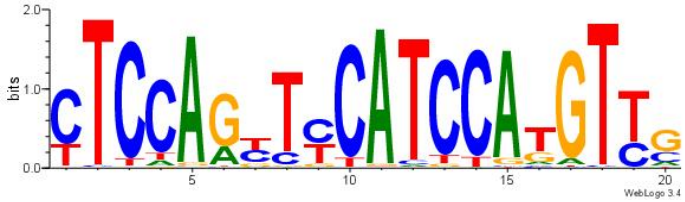

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.103633

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-----ACCGGGGCTGCA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

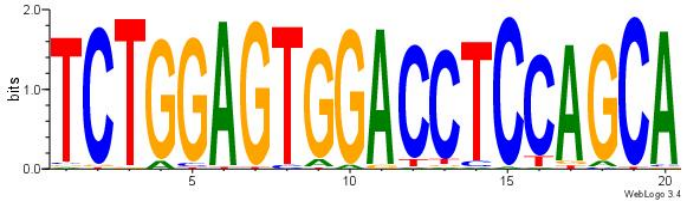

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

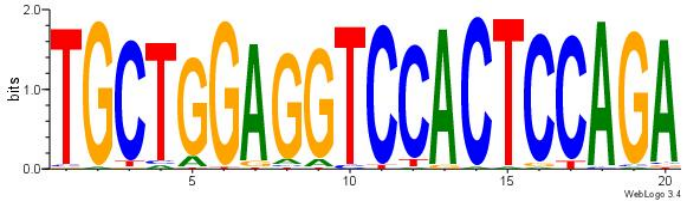

Dataset #: 1

Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.10382

Alignment:

```
ACCCCGTCTGGGA
ACCGGGGCTGCA-
```

Original motif Consensus sequence: ACCCCGTCTGGGA

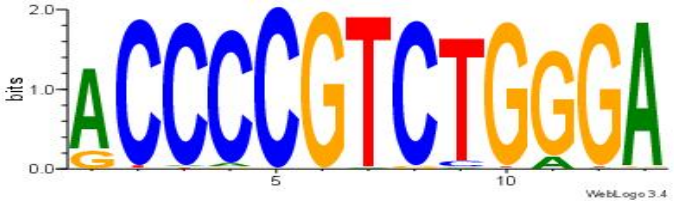

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

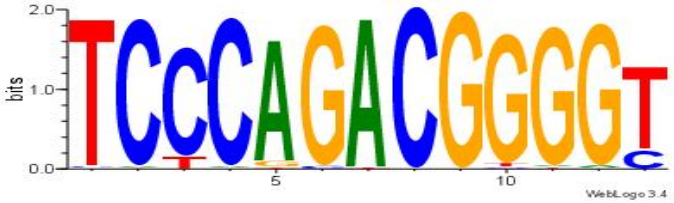

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.103941

Alignment:
GGCTGCGGAGGGTGTA
----ACCGGGGCTGCA

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

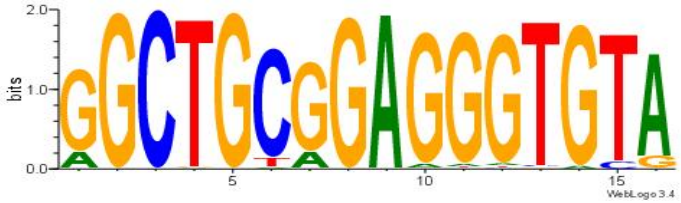

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

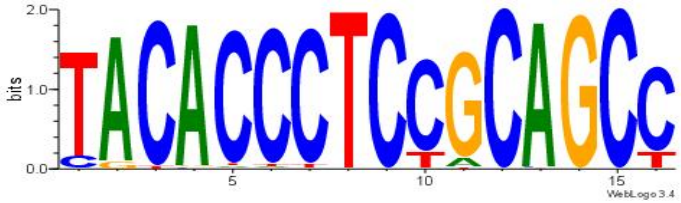

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.104038

Alignment:
GGCATCACGGATCCTACCAA
TGCAGCCCCGGT--------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

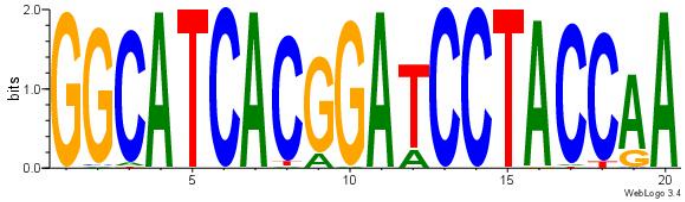

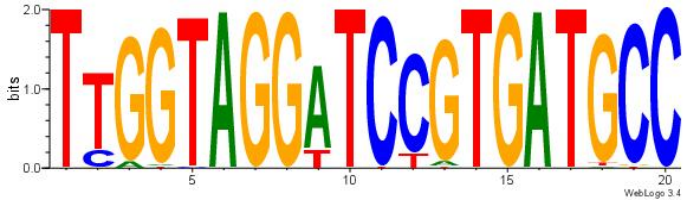

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.104065

Alignment:

```
AGGAGCGCCTCTGC
TGCAGCCCCGGT--
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

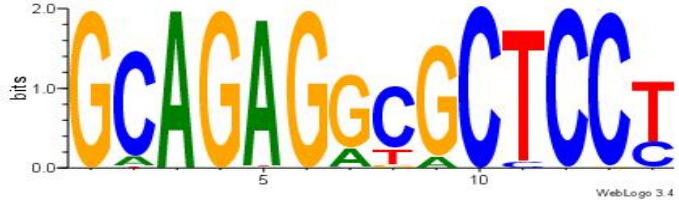

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

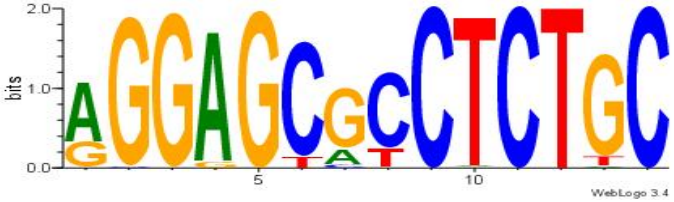

Dataset #:	1
Motif ID:	111

Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.10485

Alignment:

```
AGGAGCCCCTCHGCCCR
TGCAGCCCCGGT-----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

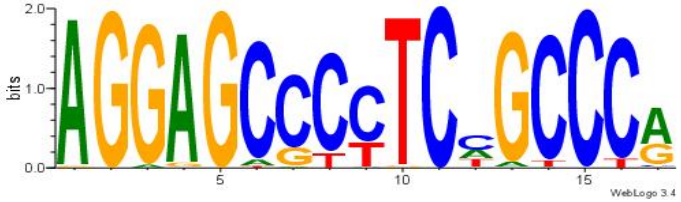

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.104915

Alignment:
CTCAGTGTTAATCTCCTGTC
-------TGCAGCCCCGGT-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

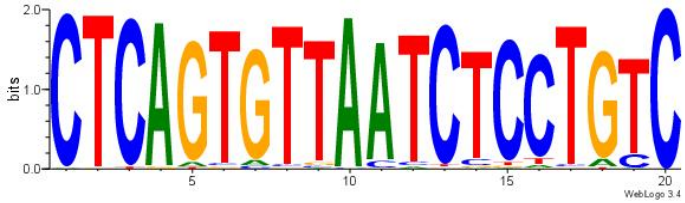

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

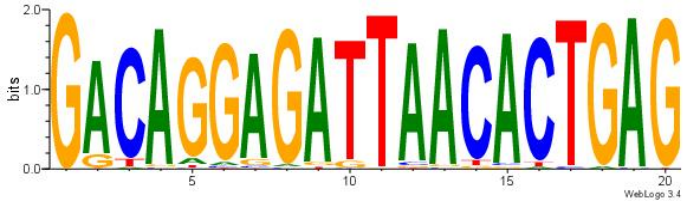

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.105058

Alignment:
GTACCTCAGWTGGAAATG
----ACCGGGGCTGCA--

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

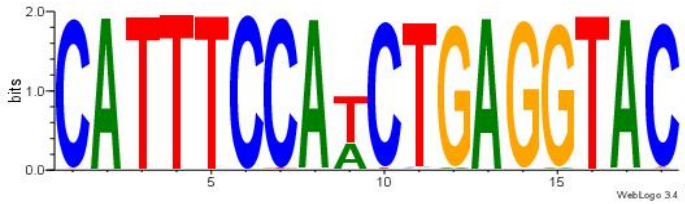

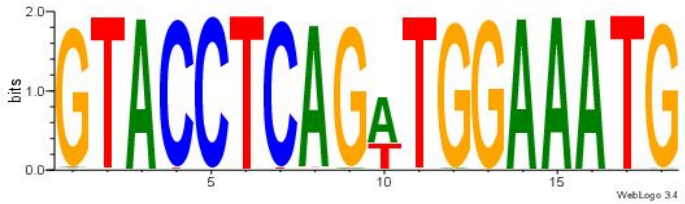

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.105771

Alignment:

```
TGCCCAGTCTGGAAAGTG
-ACCGGGGCTGCA-----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

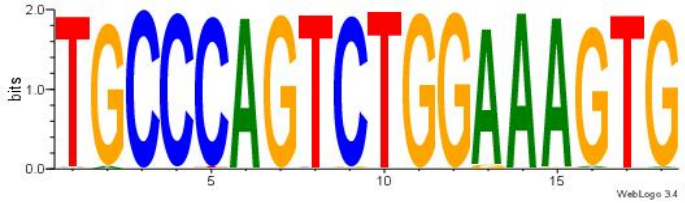

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

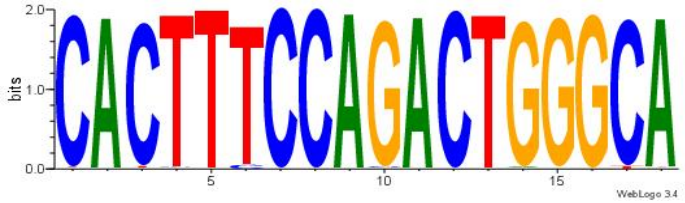

Dataset #: 1

Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.105855

Alignment:

```
TTGAGACMGKGTCT
TGCAGCCCCGGT--
```

Original motif Consensus sequence: AGACYCYGTCTCAA

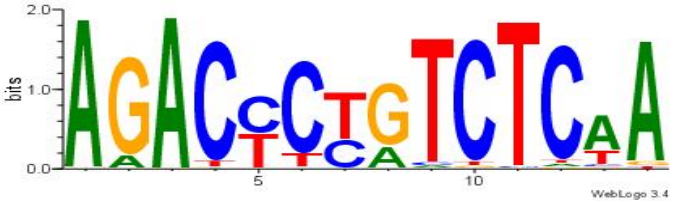

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

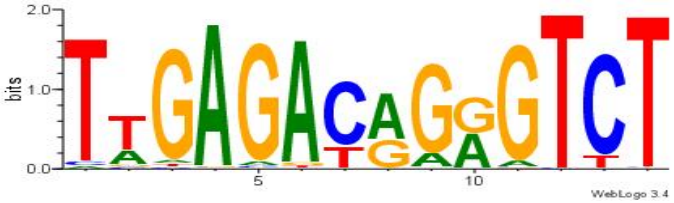

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.105912

Alignment:
CGAGCCTCCCCGAYGAGCGC
--TGCAGCCCCGGT------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

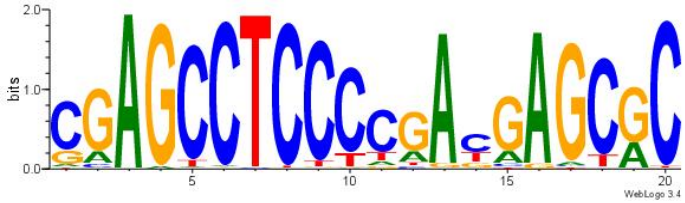

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

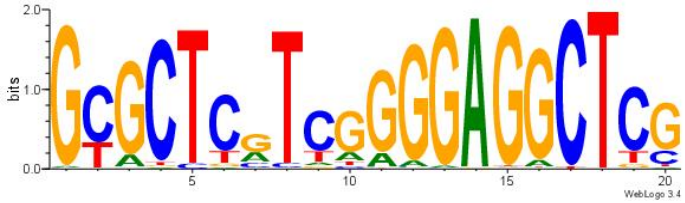

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.107311

Alignment:
ATCRCTTGAGSYCAGGAGKT
---TGCAGCCCCGGT-----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

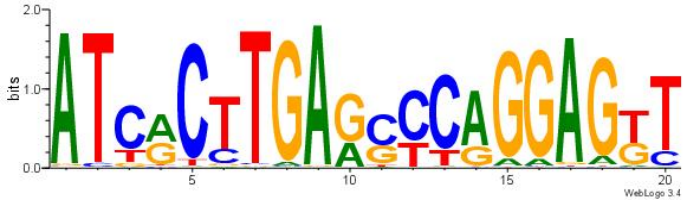

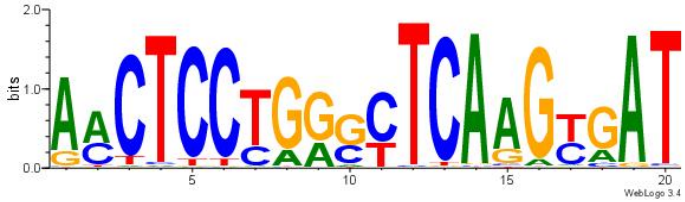

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107411

Alignment:

```
CATCTGGAGCCCCA
--ACCGGGGCTGCA
```

Original motif Consensus sequence: CATCTGGAGCCCCA

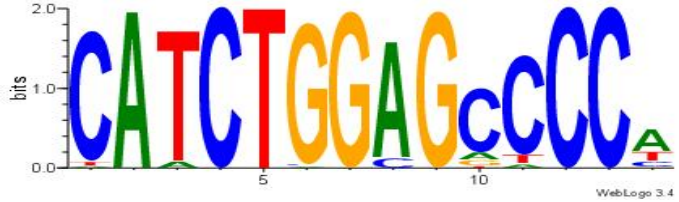

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

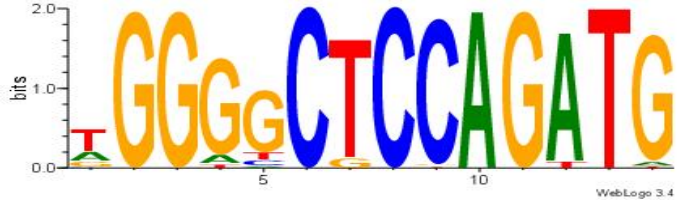

Dataset #:	1
Motif ID:	165

Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.107456

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-----ACCGGGGCTGCA---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

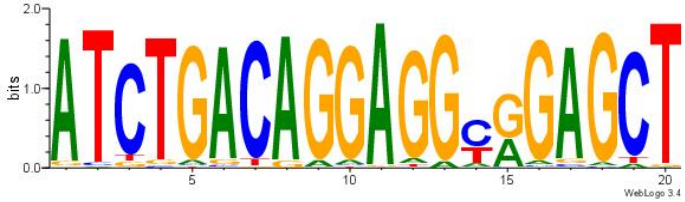

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

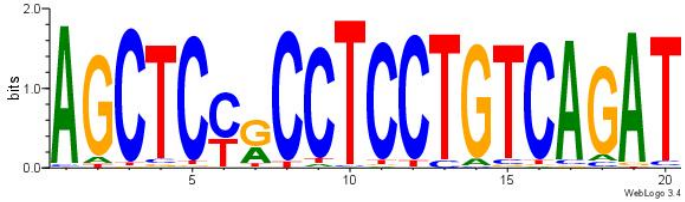

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.107465

Alignment:
MTCCTCCAGACCCCAGAATG
----TGCAGCCCCGGT----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

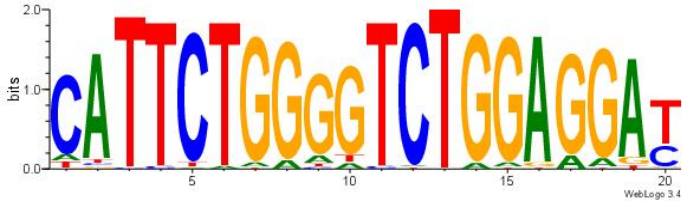

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

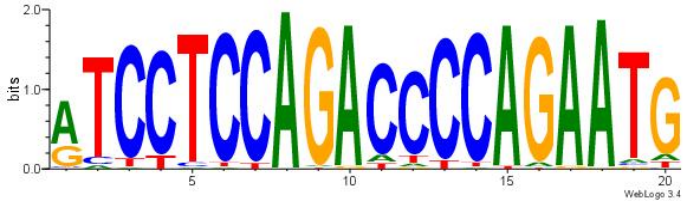

Dataset #: 1 Motif ID: 89 Motif name: Motif 89

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

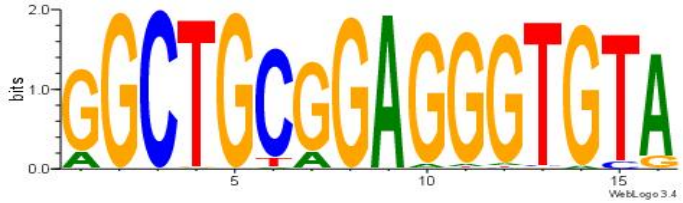

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

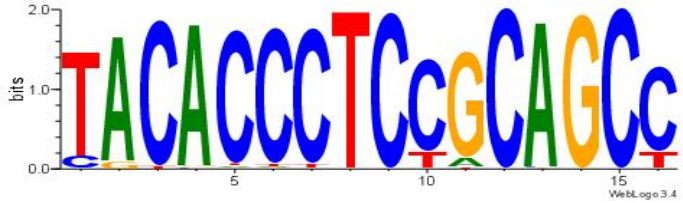

Best Matches for Motif ID 89 (Highest to Lowest)

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0814615

Alignment:
GGAGGTGTGGAGGGAGAGGC
--GGCTGCGGAGGGTGTA--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

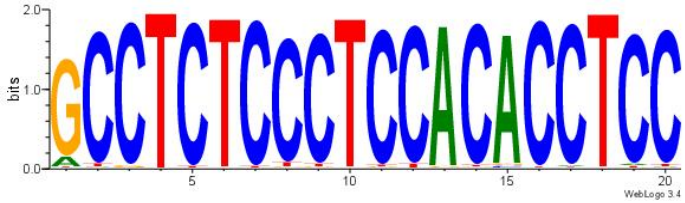

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

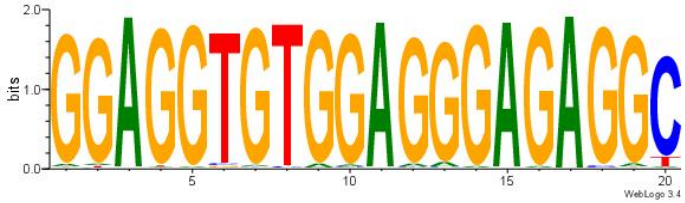

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0835227

Alignment:
CACCAGACTCAGGAGCCCAG
-TACACCCTCCGCAGCC---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

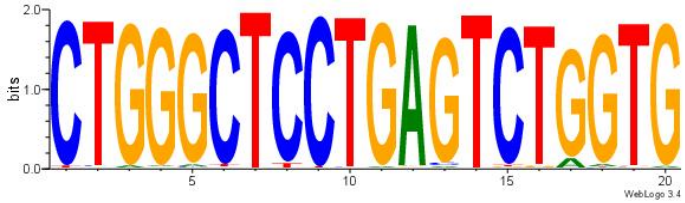

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

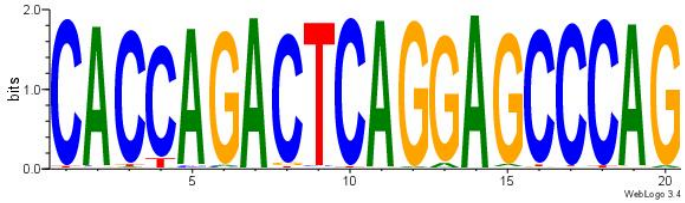

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.089486

Alignment:

```
GGATCCACTGGGTGAAGCCA
GGCTGCGGAGGGTGTA----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

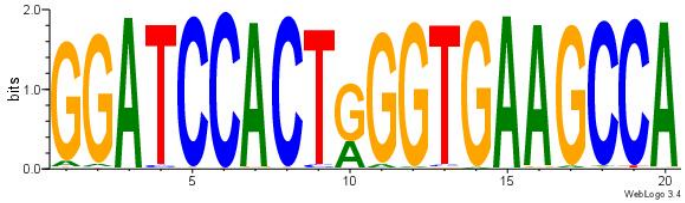

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

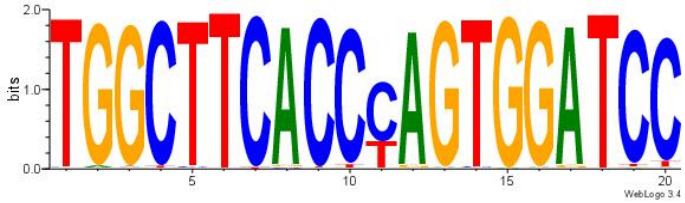

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0927728

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-GGCTGCGGAGGGTGTA--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

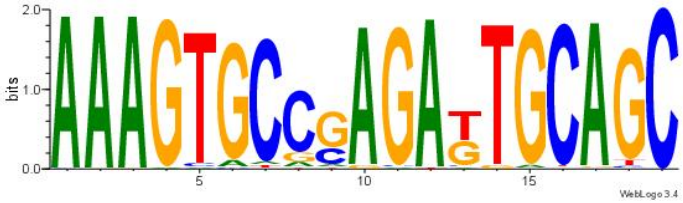

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

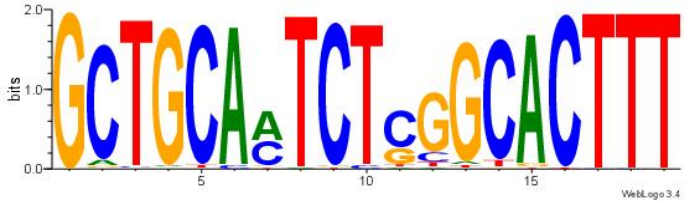

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.0932417

Alignment:
CTCCTGCCTCAGCCTCCCRA
---TACACCCTCCGCAGCC-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

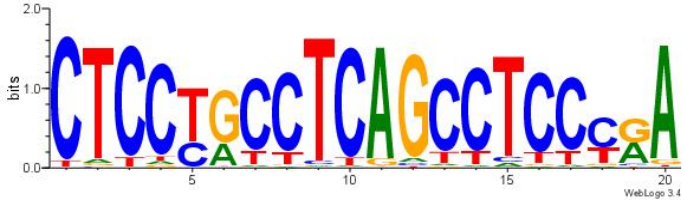

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

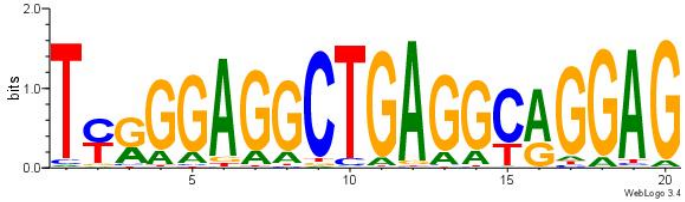

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.0961412

Alignment:
AAGGAACAAACTCCRGACAC
----TACACCCTCCGCAGCC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

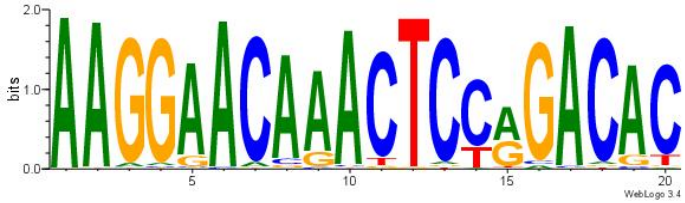

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

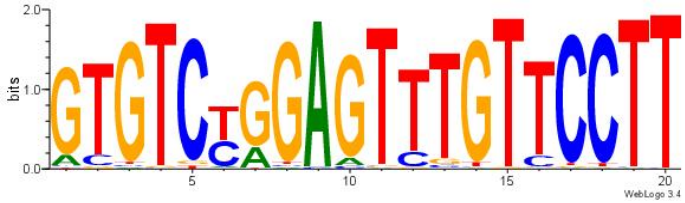

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0976387

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-GGCTGCGGAGGGTGTA---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

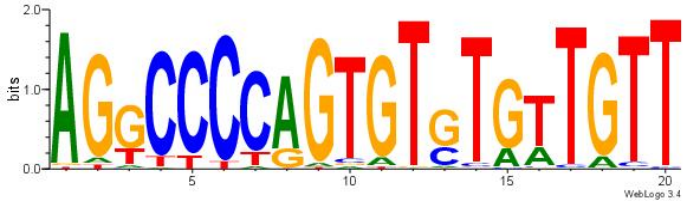

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

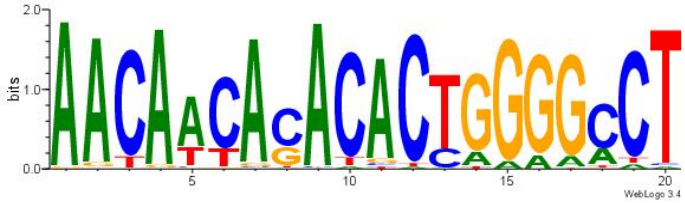

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.100299

Alignment:

```
GGGTGCAGGMGGGCTGAGT
GGCTGCGGAGGGTGTA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

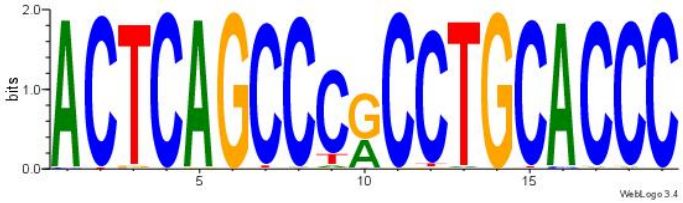

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

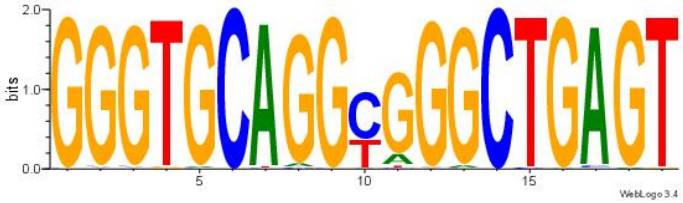

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.102768

Alignment:
CTGAGGACCTGAGGTCRTA
---GGCTGCGGAGGGTGTA

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

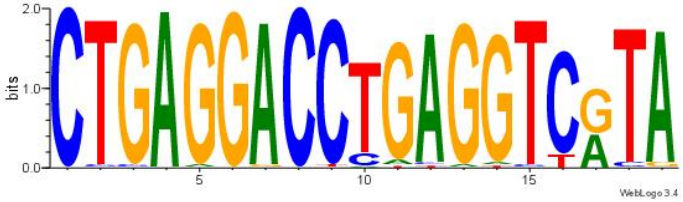

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

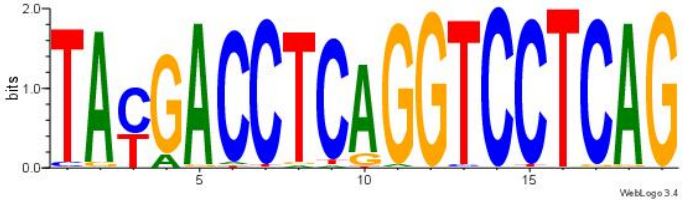

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.103303

Alignment:
ACCKTCGCGGTGAGTGTTAC
--GGCTGCGGAGGGTGTA--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

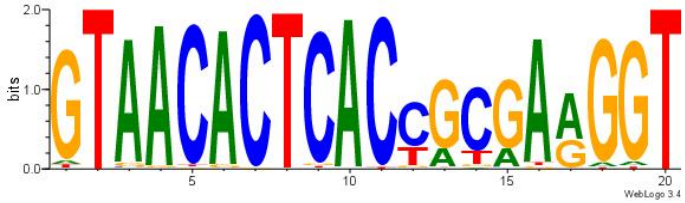

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

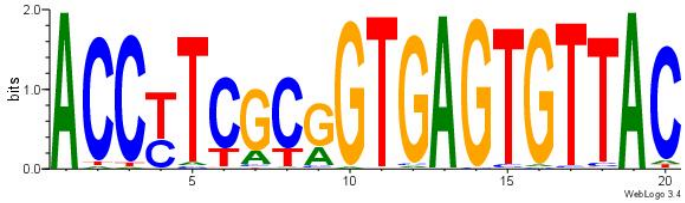

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.103861

Alignment:

```
ATTAGCYRGGCRTGGTGGC
---GGCTGCGGAGGGTGTA
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

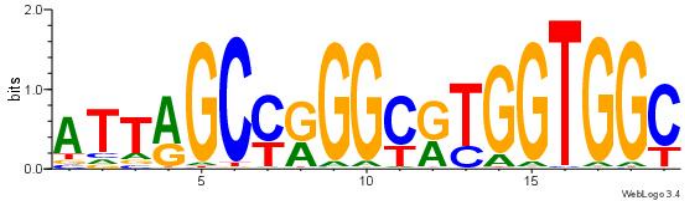

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

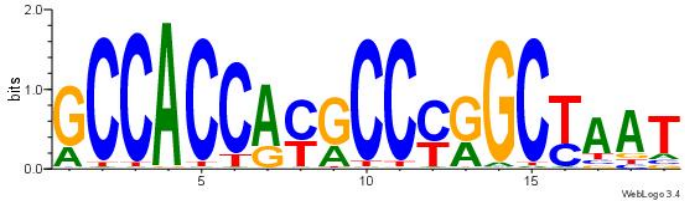

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.104863

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-GGCTGCGGAGGGTGTA---
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

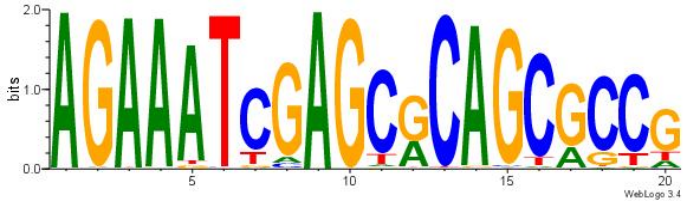

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

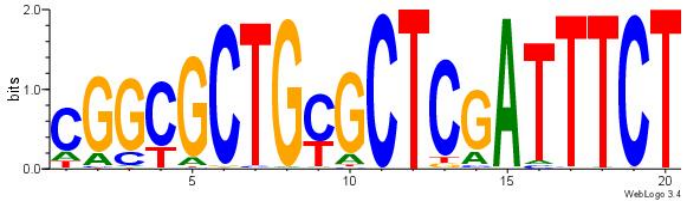

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.107886

Alignment:
TCKMGCCACTGCACTCCAGC
TACACCCTCCGCAGCC----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

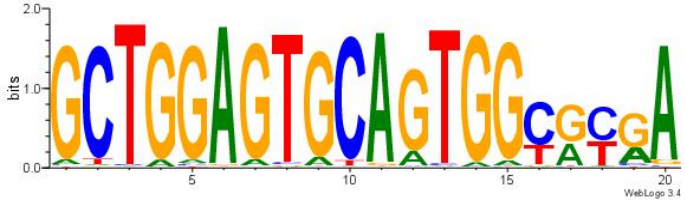

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

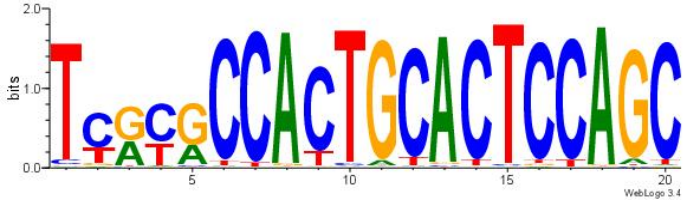

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.108937

Alignment:
KCCGGGCCTTAGCTGCCTTC
-TACACCCTCCGCAGCC---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

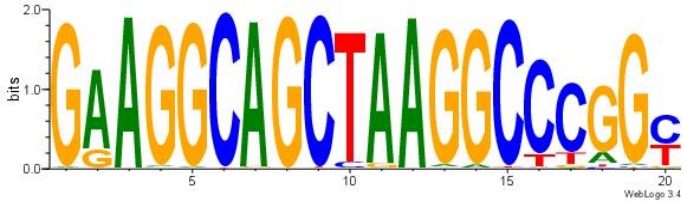

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

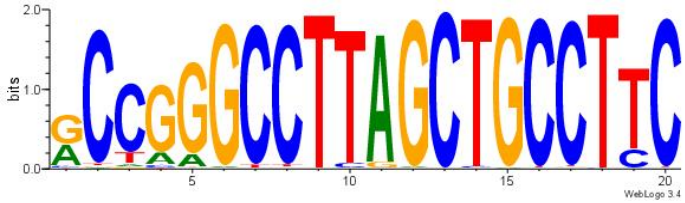

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.109529

Alignment:

```
GGCACTGCTGGGGGACCCAG
--GGCTGCGGAGGGTGTA--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

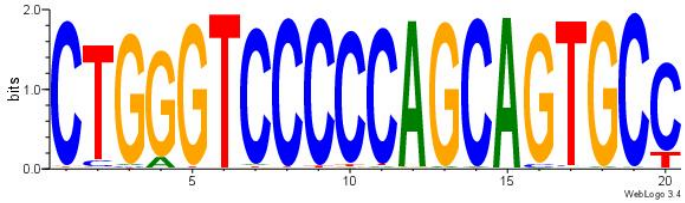

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

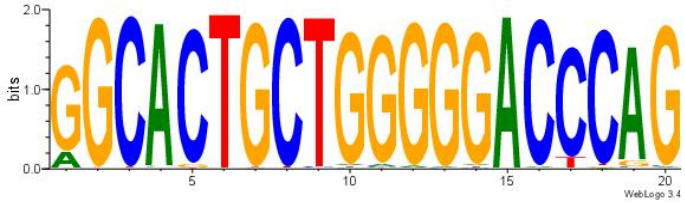

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.11096

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-GGCTGCGGAGGGTGTA---
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

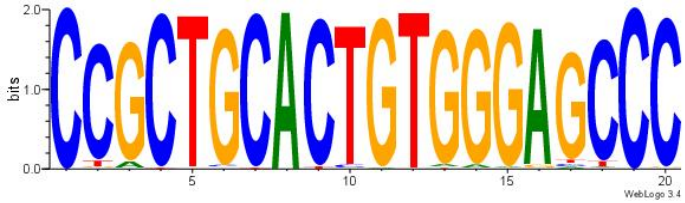

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

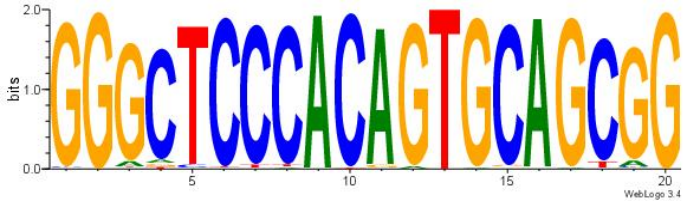

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.111061

Alignment:
CTGGGCRACAGAGYRAGACY
---GGCTGCGGAGGGTGTA-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

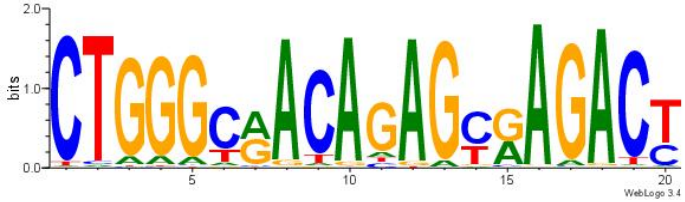

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

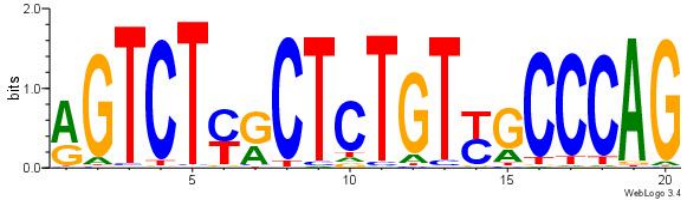

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.111434

Alignment:
AATCAACCCTGGYRATCAAT
--TACACCCTCCGCAGCC--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

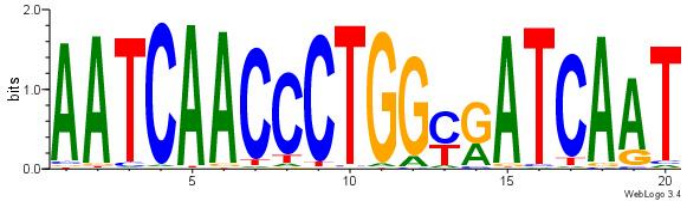

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

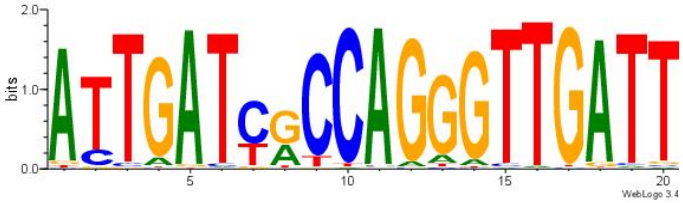

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.111889

Alignment:

```
AGGTCCTTCAGGAGGTATTC
---GGCTGCGGAGGGTGTA-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

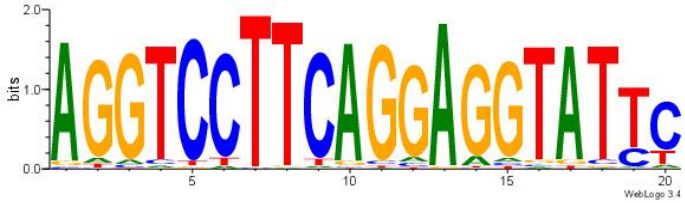

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

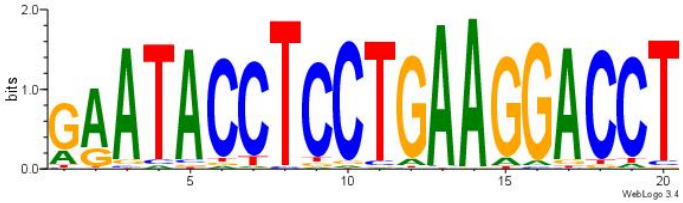

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.112443

Alignment:

```
GCCAGGCAGAGRGKCTCCT
-GGCTGCGGAGGGTGTA--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

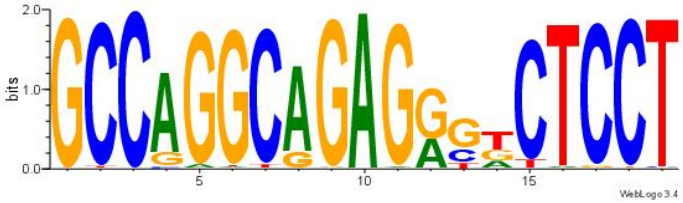

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

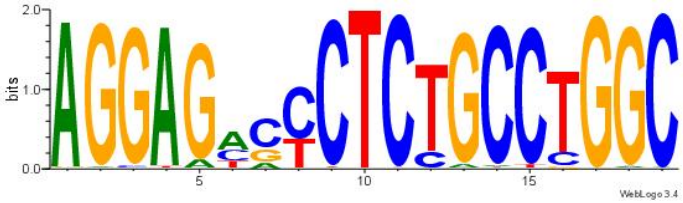

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.113367

Alignment:
TGHCCTGCKCCCACTGTCT
-GGCTGCGGAGGGTGTA--

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

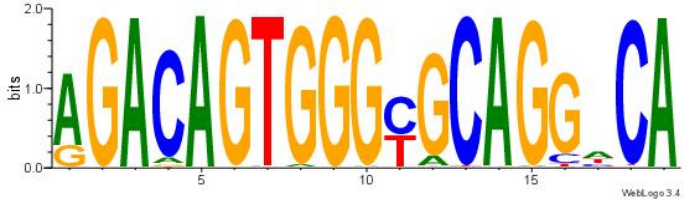

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

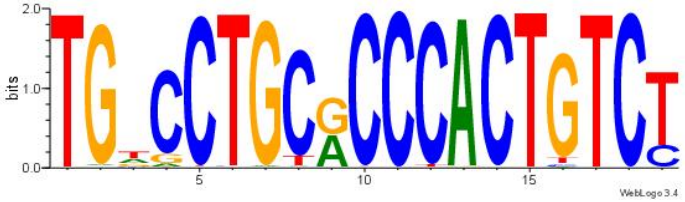

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.113501

Alignment:
AGATGCCAGCCAGAGCTCT
-TACACCCTCCGCAGCC--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

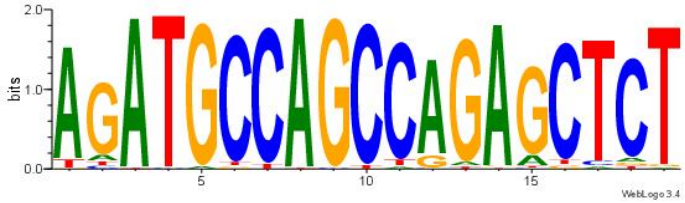

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

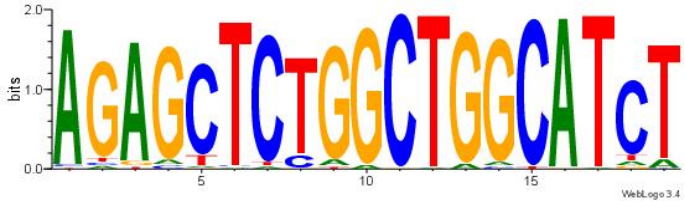

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.113837

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-GGCTGCGGAGGGTGTA---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

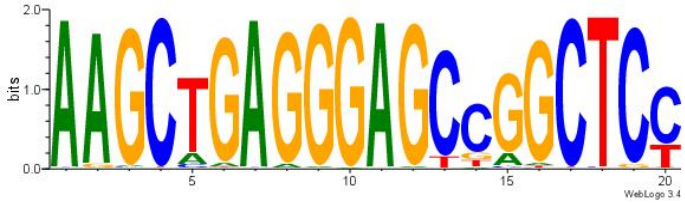

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

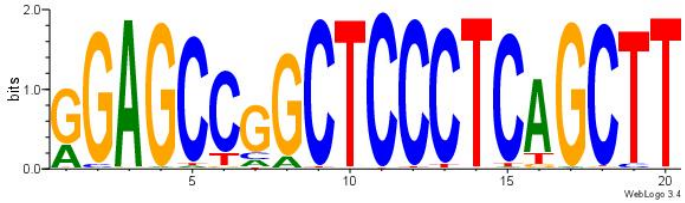

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.114755

Alignment:

```
CGAGCCCTGCCCCGCGG
-TACACCCTCCGCAGCC
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

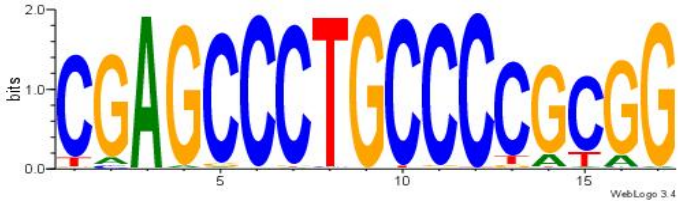

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

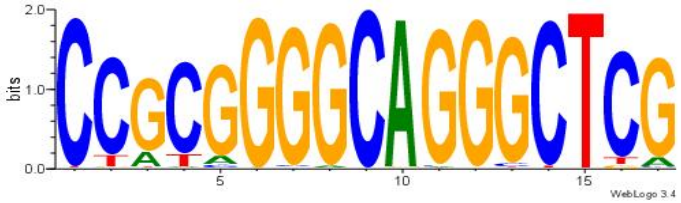

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.115305

Alignment:
ATGGCTGAATAKTATTCCAT
--GGCTGCGGAGGGTGTA--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

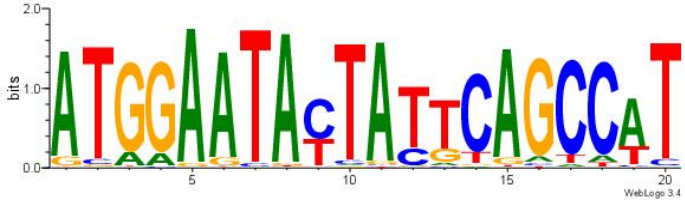

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

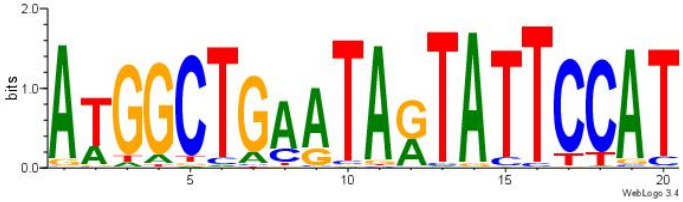

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.115629

Alignment:
AGTTCCGGGTGGGCGTGGG
-GGCTGCGGAGGGTGTA--

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

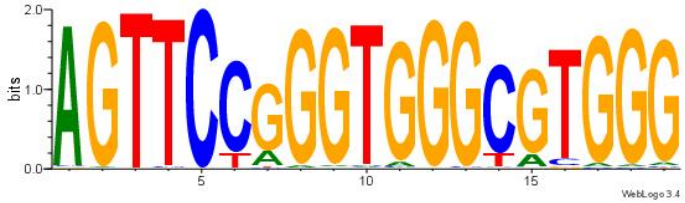

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

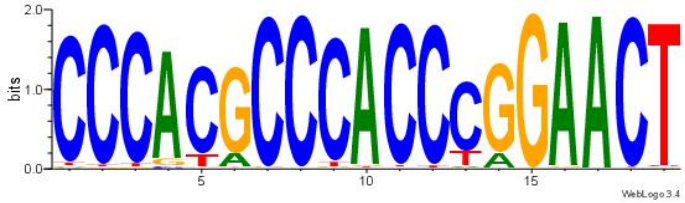

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.115684

Alignment:

```
GAATCCTGGGACAGCCTGT
TACACCCTCCGCAGCC---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

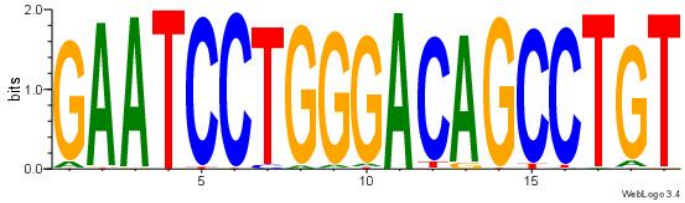

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

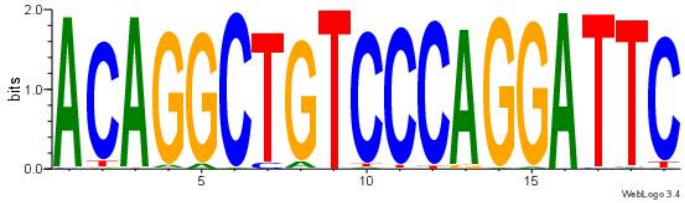

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.115796

Alignment:

```
GAAHCAACCKAAKTGTCCAT
--TACACCCTCCGCAGCC--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

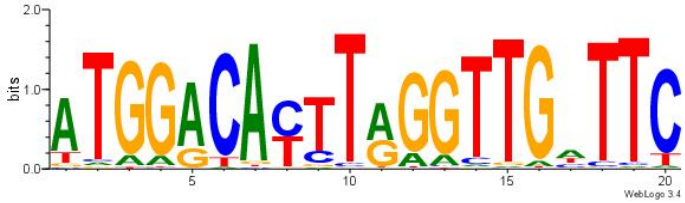

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

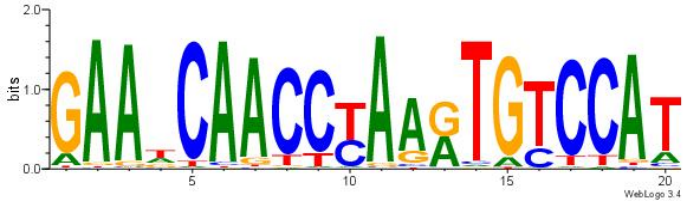

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.115965

Alignment:
TTGTCCCACTGGAAGGTCTT
----GGCTGCGGAGGGTGTA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

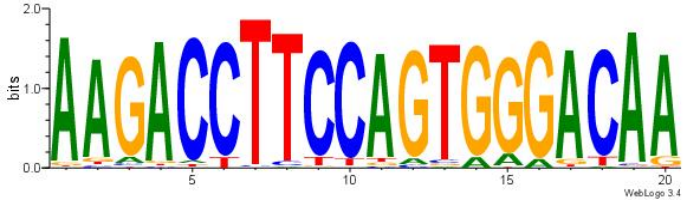

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

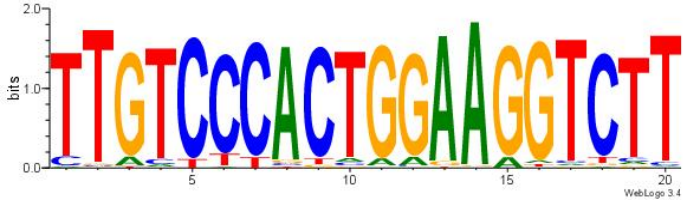

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.116171

Alignment:
AAGCTCGAACTGGGTGGAGC
--GGCTGCGGAGGGTGTA--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

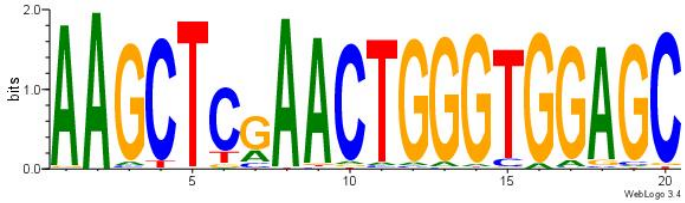

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

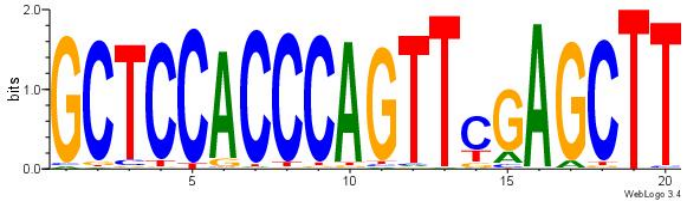

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.116676

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GGCTGCGGAGGGTGTA----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

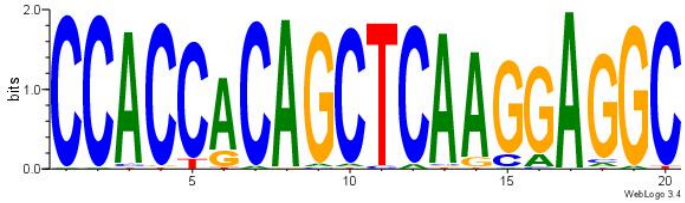

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

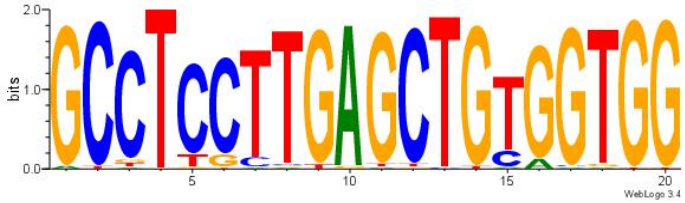

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.116954

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-GGCTGCGGAGGGTGTA---
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

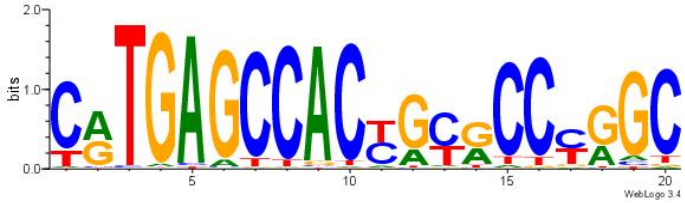

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

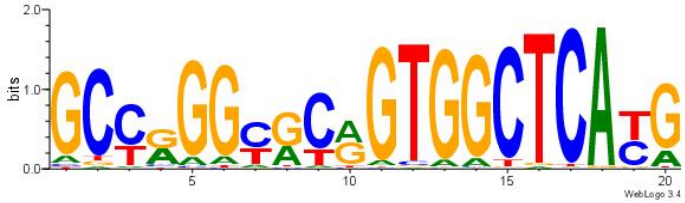

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.118473

Alignment:
MCCYGGCWSMGASGSTCCT
GGCTGCGGAGGGTGTA---

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

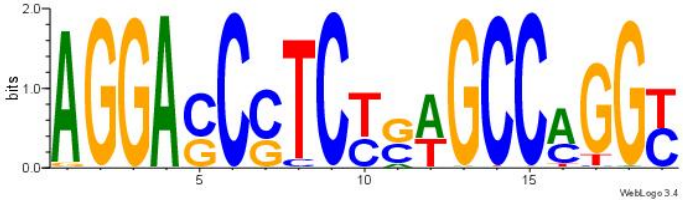

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

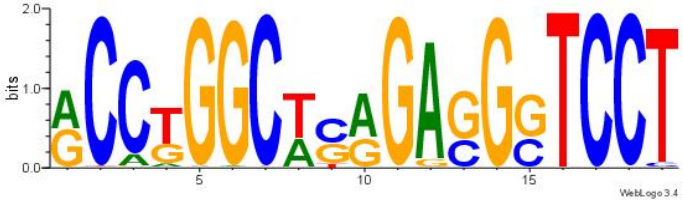

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.119033

Alignment:
CGAGCCTCCCCGAYGAGCGC
---TACACCCTCCGCAGCC-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

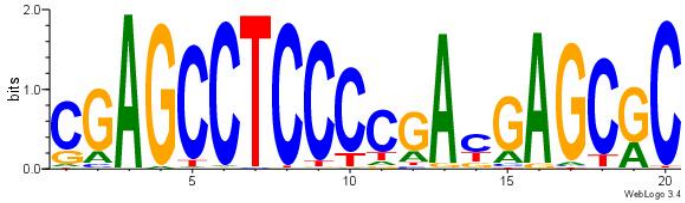

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

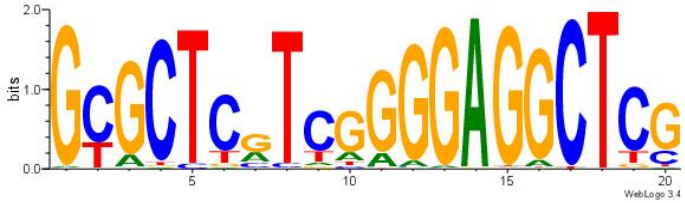

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.121145

Alignment:

```
AGCTAGAYACAGAGTGC
GGCTGCGGAGGGTGTA-
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

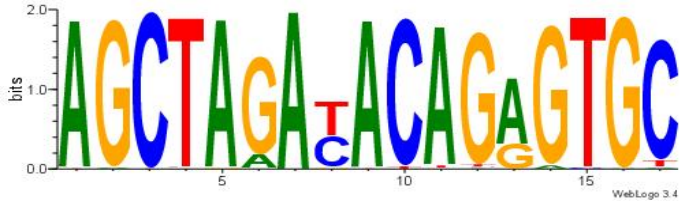

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

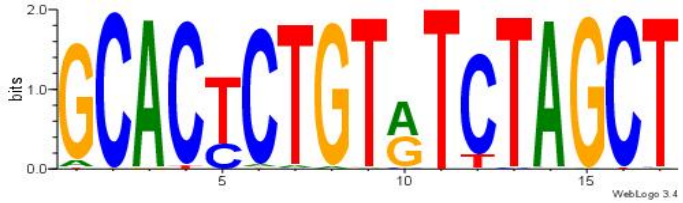

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.122587

Alignment:

```
GTTTAACCATTGAGGGCCAG
--TACACCCTCCGCAGCC--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

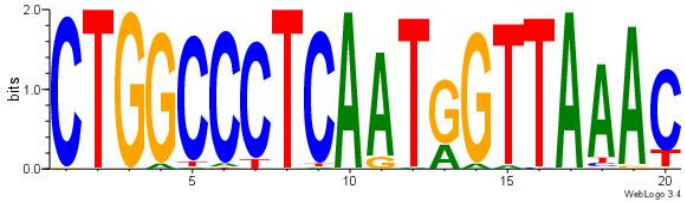

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

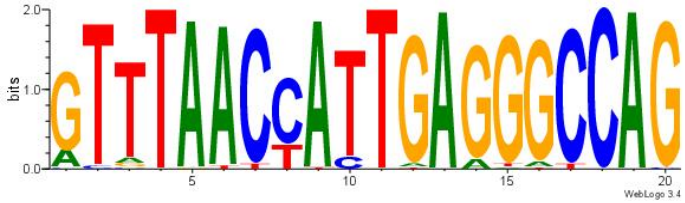

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.12357

Alignment:
AGCTCMKCCTCCTGTCAGAT
GGCTGCGGAGGGTGTA----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

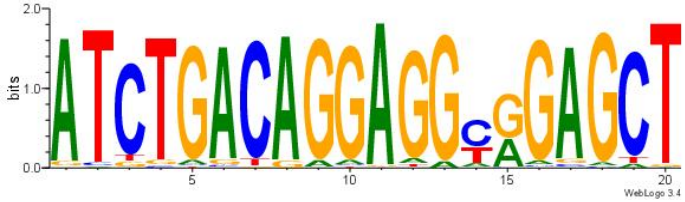

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

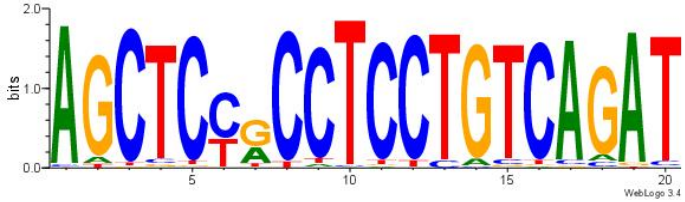

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.124043

Alignment:
ATGGCCTATGACYGSTTTG
---GGCTGCGGAGGGTGTA

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

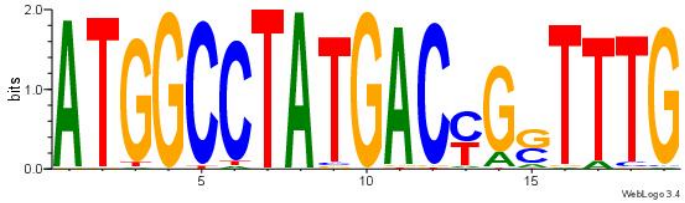

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

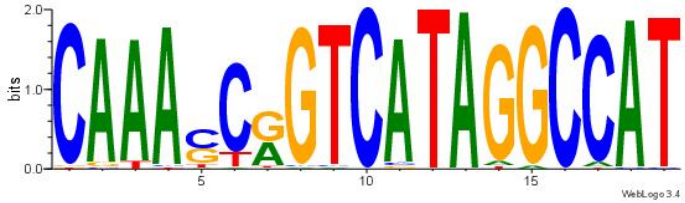

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.124194

Alignment:

```
TAGATAATAGCTCCAGCTTT
--TACACCCTCCGCAGCC--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

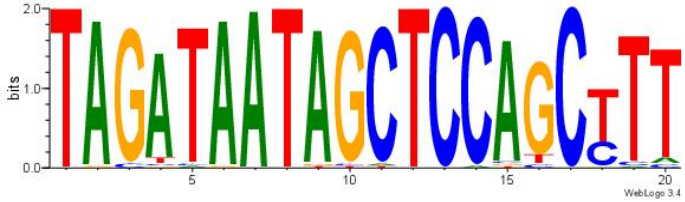

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

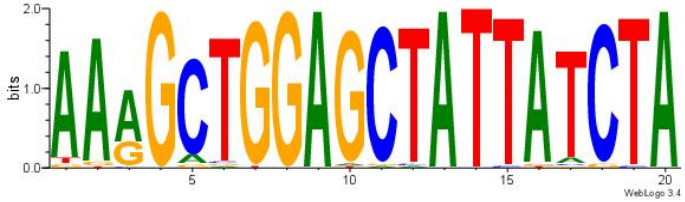

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.125148

Alignment:

```
AGGGATCTAGGTTGCR
GGCTGCGGAGGGTGTA
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

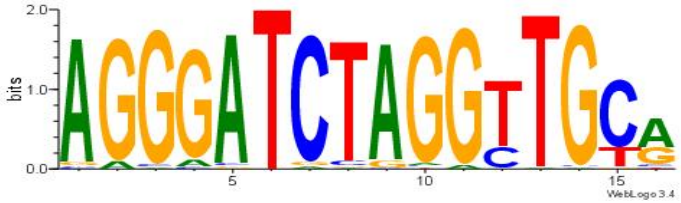

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

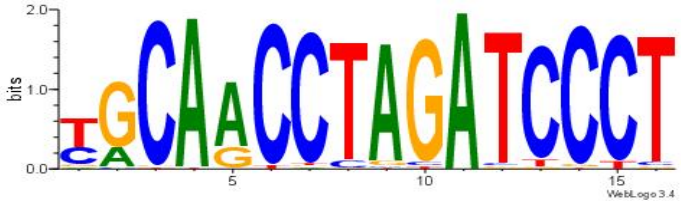

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.125158

Alignment:
AACAACAACAACAAMAA
TACACCCTCCGCAGCC-

Original motif Consensus sequence: AACAACAACAACAAMAA

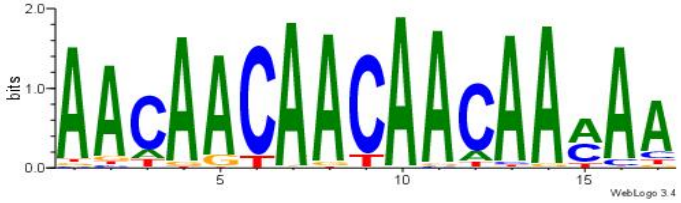

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

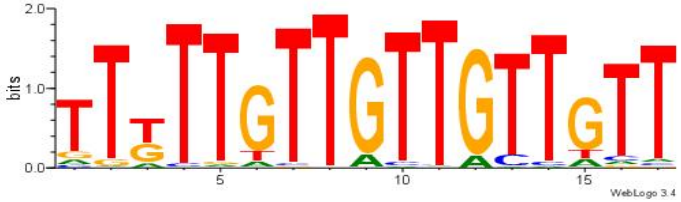

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.125489

Alignment:
AAGCAGGGCGAGGCATTGCC
-GGCTGCGGAGGGTGTA---

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

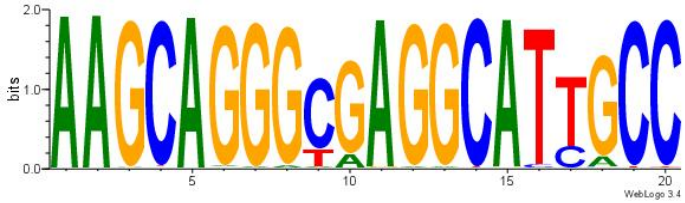

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

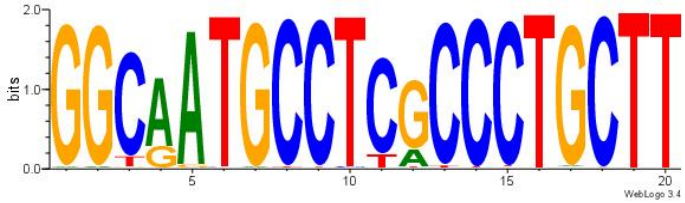

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.126083

Alignment:

```
TCCCTCCCGGACGGGGYGGC
--GGCTGCGGAGGGTGTA--
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

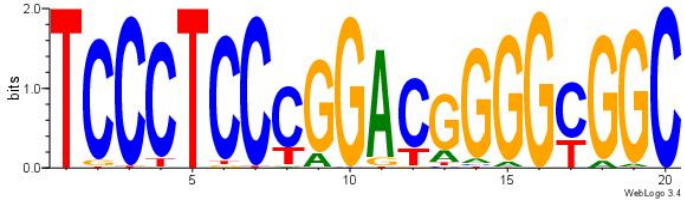

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

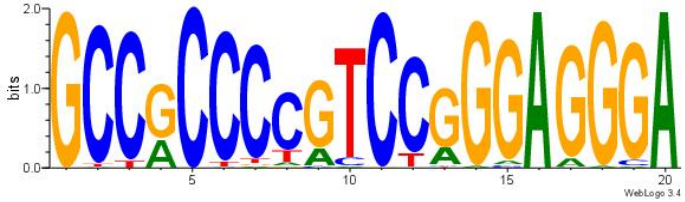

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.126108

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
GGCTGCGGAGGGTGTA----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

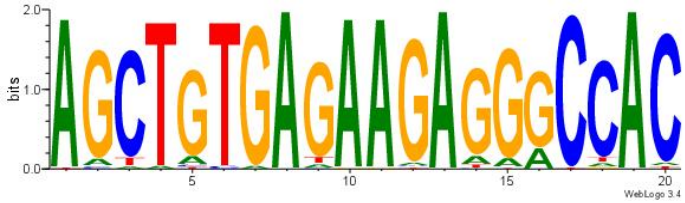

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

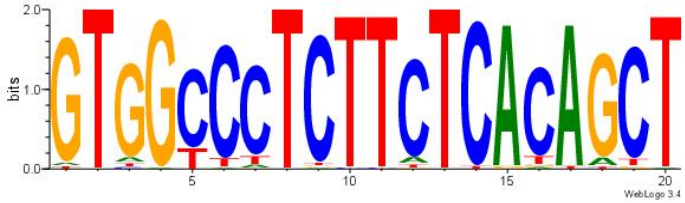

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.126276

Alignment:
TACCTGAGACTGGGTAATTT
GGCTGCGGAGGGTGTA----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

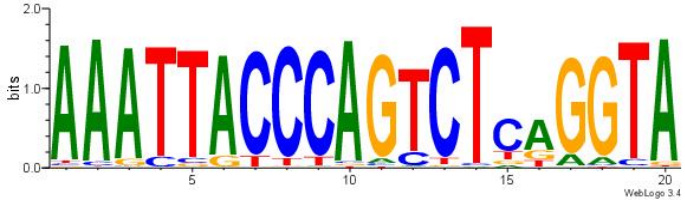

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

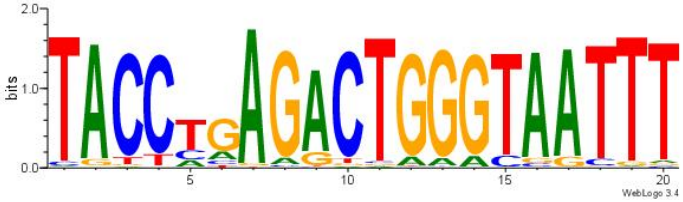

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.126293

Alignment:
CCCMKGGCACCCTCAGTCCT
--TACACCCTCCGCAGCC--

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

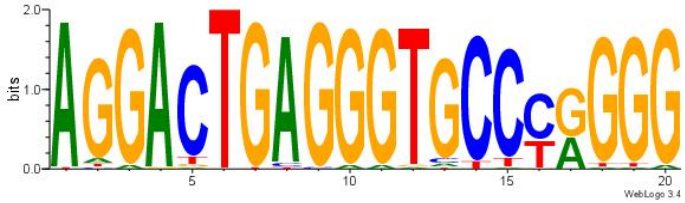

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

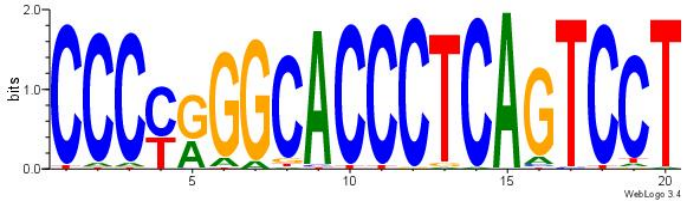

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.127153

Alignment:

```
AGGAACAGCTCCRGTCTAC
TACACCCTCCGCAGCC---
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

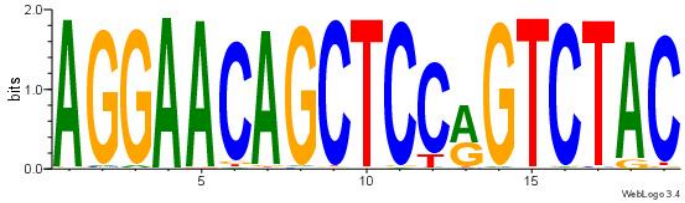

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

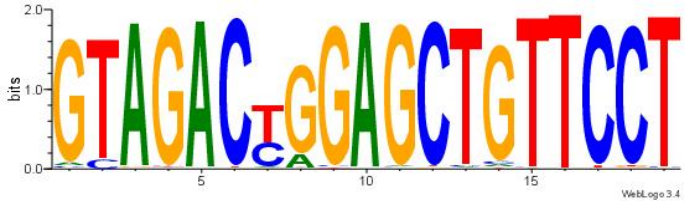

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.127843

Alignment:

```
CAAGCGCCAGCTCATGTC
--GGCTGCGGAGGGTGTA
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

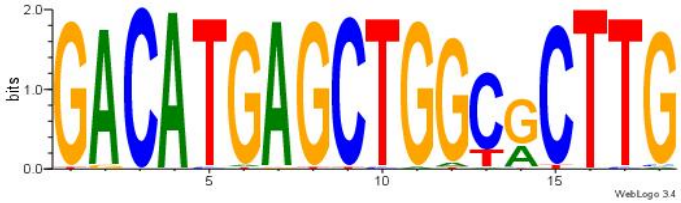

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

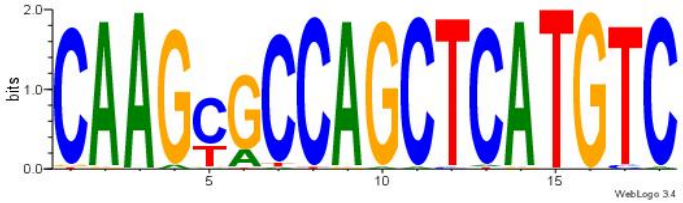

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.127953

Alignment:
TGATACCCAGGCAAACAG
-TACACCCTCCGCAGCC-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

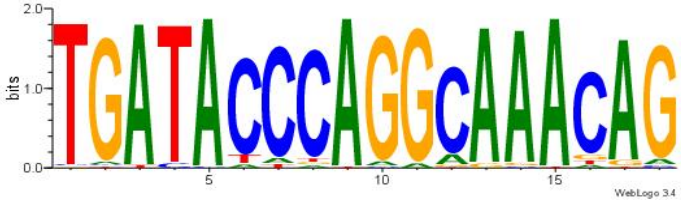

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

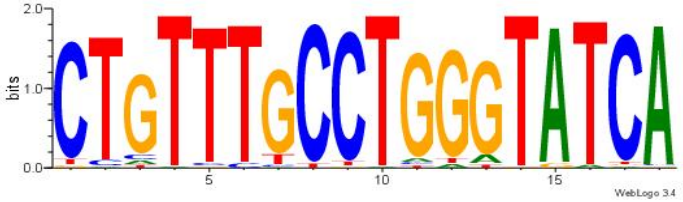

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.128091

Alignment:
TTMGTCCCAGAGGGGCACC
-TACACCCTCCGCAGCC--

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

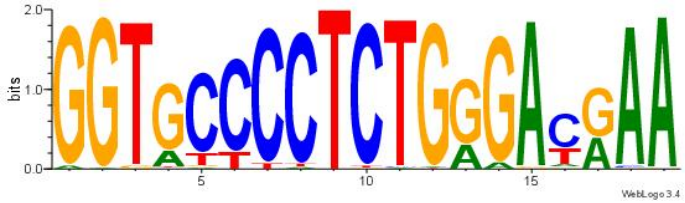

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

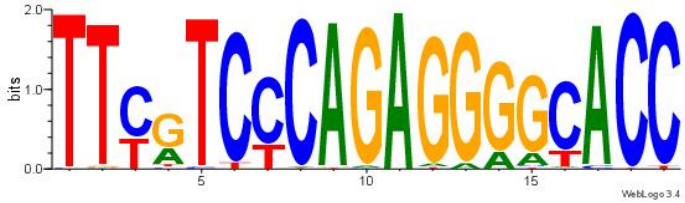

Dataset #: 1 Motif ID: 90 Motif name: Motif 90

Original motif Consensus sequence: CCCCATTGCY

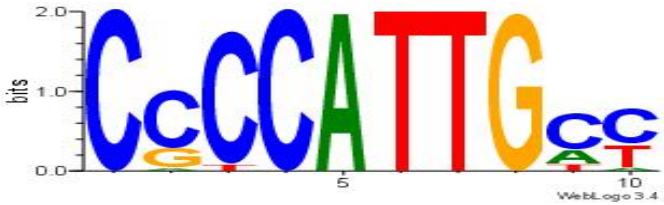

Reverse complement motif Consensus sequence: KGCAATGGGG

Best Matches for Motif ID 90 (Highest to Lowest)

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0254376

Alignment:

ATACAATGGGGGTACAGRC
-KGCAATGGGG--------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

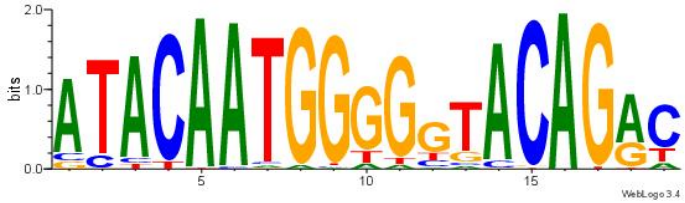

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

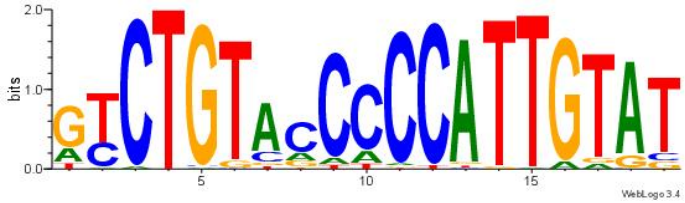

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0348826

Alignment:
CCTGCCATTGCYSAGGCTTG
--CCCCATTGCY--------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

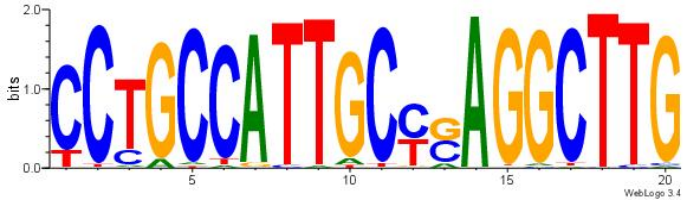

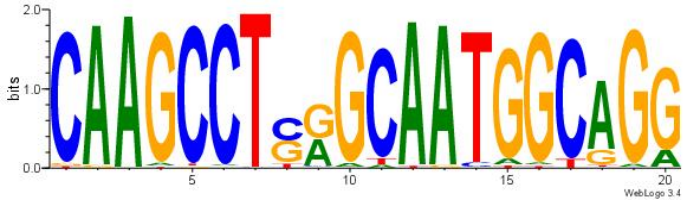

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0547148

Alignment:

```
GCCTCACTGCCRC
-CCCCATTGCY--
```

Original motif Consensus sequence: GCCTCACTGCCRC

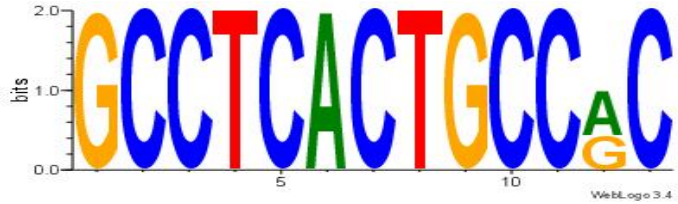

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

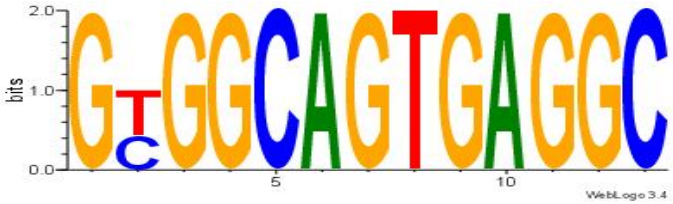

Dataset #:	1
Motif ID:	3

Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0556877

Alignment:

```
TCKMGCCACTGCACTCCAGC
-------CCCCATTGCY---
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

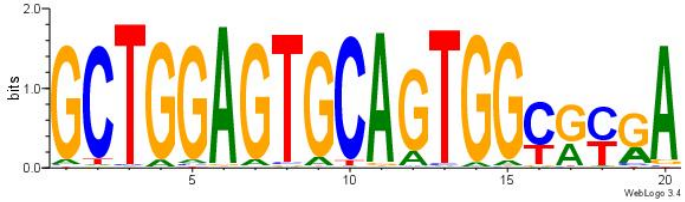

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

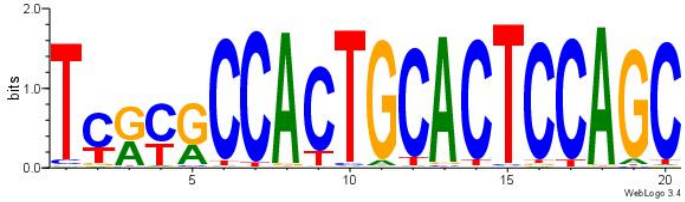

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0564416

Alignment:
CCCTCACTGCCCGGGG
-CCCCATTGCY-----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

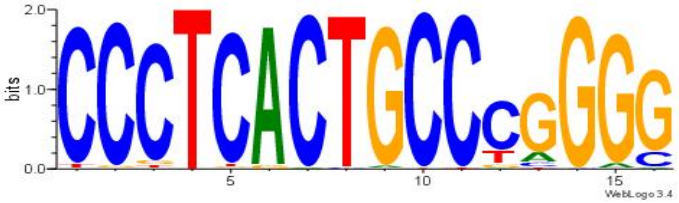

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

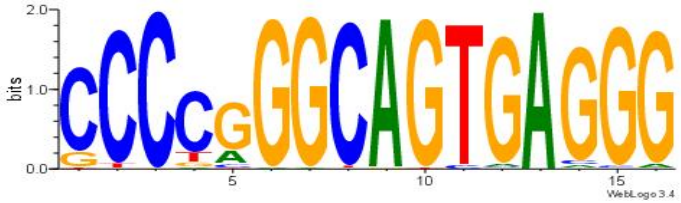

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0604538

Alignment:
CCGCTGCACTGTGGGAGCCC
----KGCAATGGGG------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

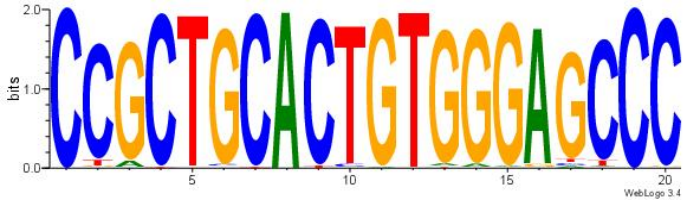

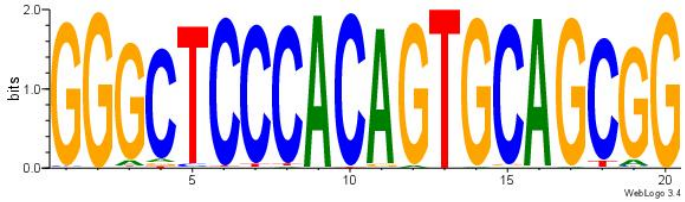

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0618316

Alignment:

```
AACAACASACACTGGGGCCT
-------KGCAATGGGG---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

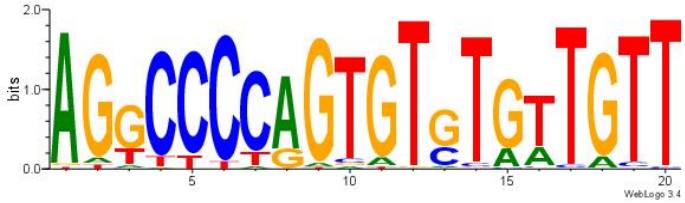

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

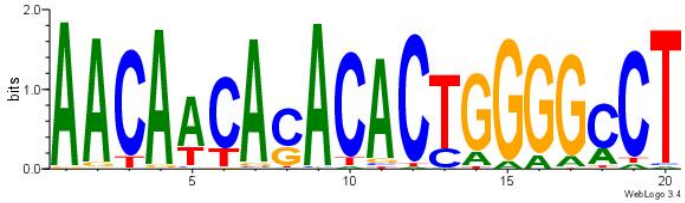

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0629809

Alignment:

```
AGTTGTAATTGGGAGACTT
---KGCAATGGGG------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

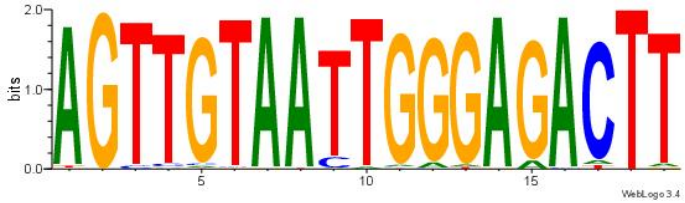

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

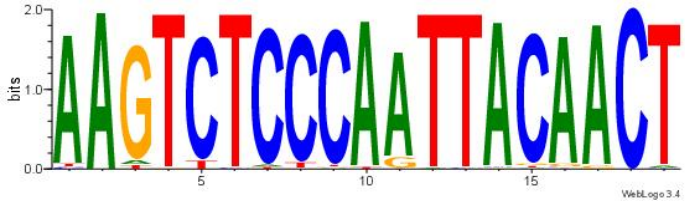

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0661287

Alignment:
CMCAGTTCACAATAGGGTT
-------KGCAATGGGG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

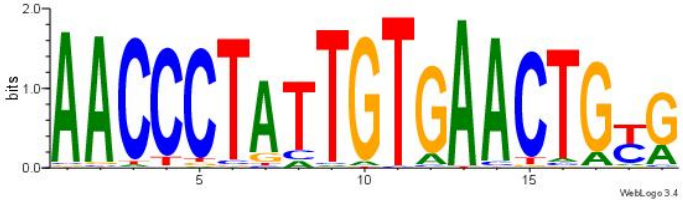

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

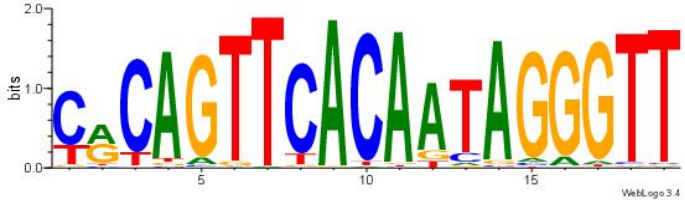

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0688841

Alignment:
CGCCCATCGTCTGGGATGT
--------CCCCATTGCY-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

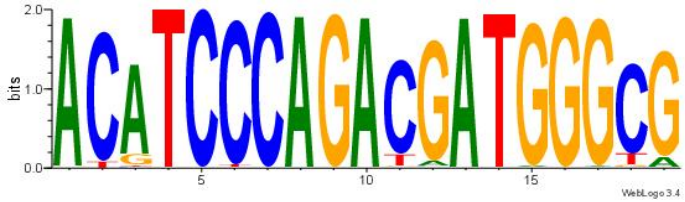

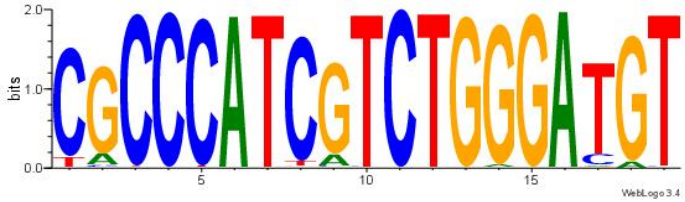

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0690788

Alignment:

```
GTCCCATCGACCACCCAAG
-CCCCATTGCY--------
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

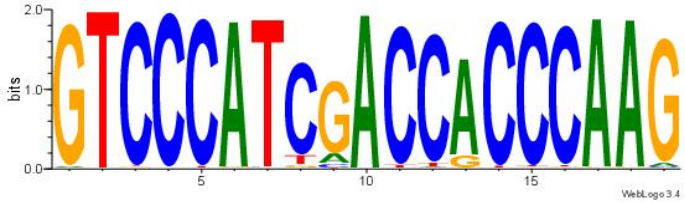

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

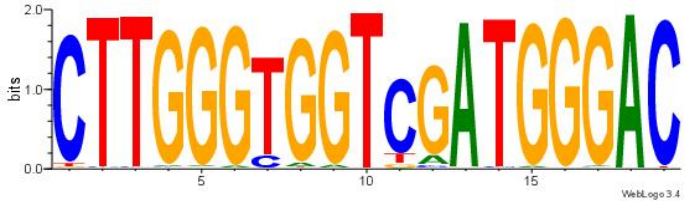

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0691403

Alignment:

```
TGHCCTGCKCCCACTGTCT
-CCCCATTGCY--------
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

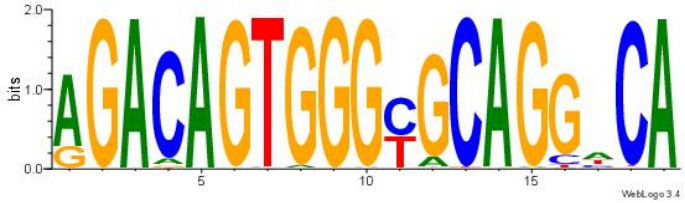

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

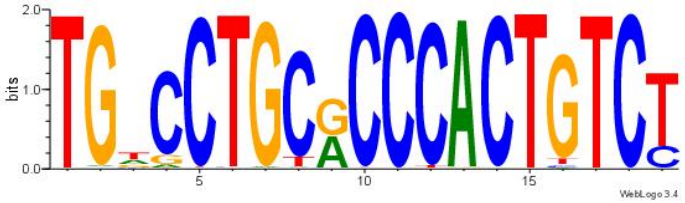

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0704256

Alignment:
AGTGACCCGATTTTCCAGGT
-----CCCCATTGCY-----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

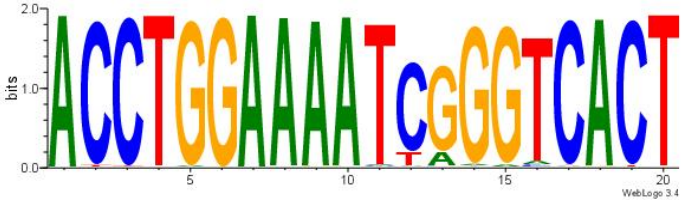

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

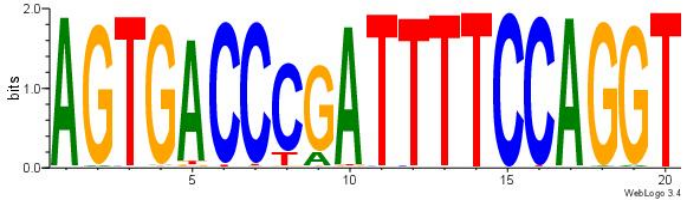

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0706294

Alignment:
CTGGGTCCCCCAGCAGTGCC
----------CCCCATTGCY

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

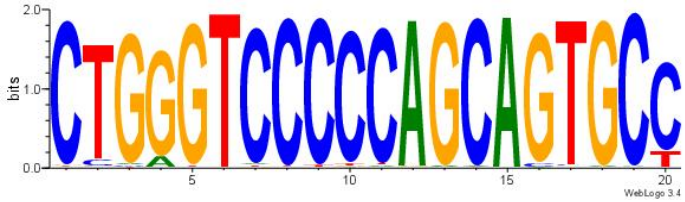

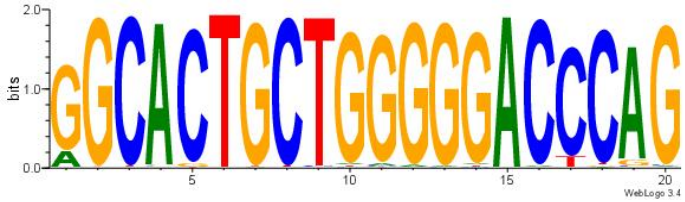

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0707677

Alignment:

```
GAAAAGCGCAGTATTMGGG
KGCAATGGGG---------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

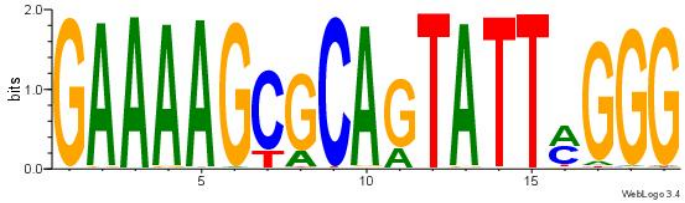

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

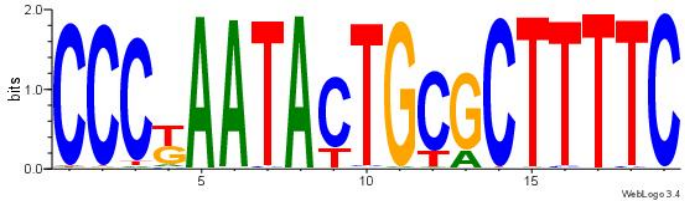

Dataset #:	1

Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0759651

Alignment:

```
HGCTCCTGTGSKCCC
--CCCCATTGCY---
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

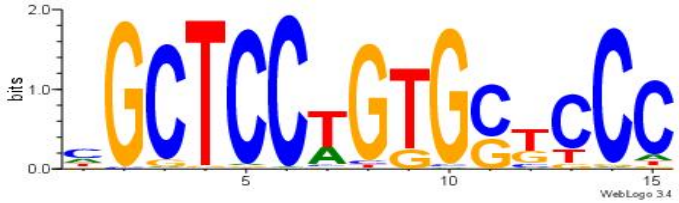

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.075982

Alignment:
GCAWSTGCAAAGGCCCT
-----KGCAATGGGG--

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

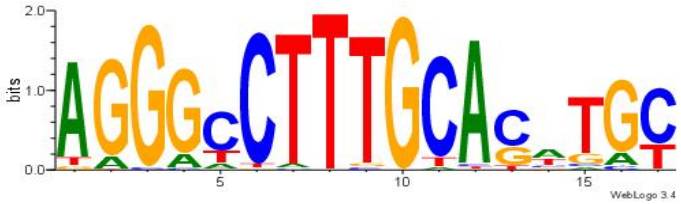

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

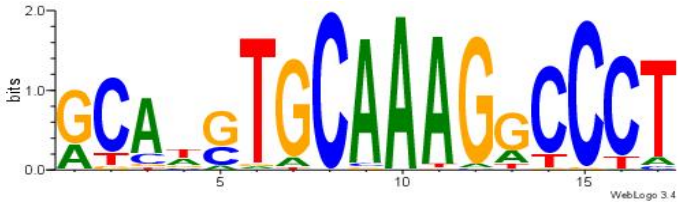

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0765804

Alignment:
ACTCCCTAGTGAGATGAACC
-------CCCCATTGCY---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

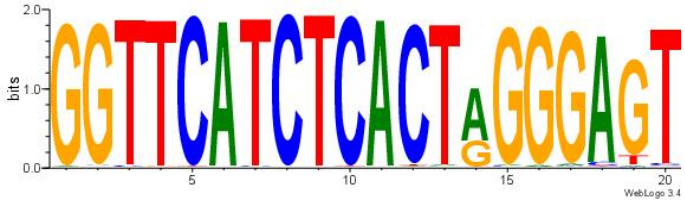

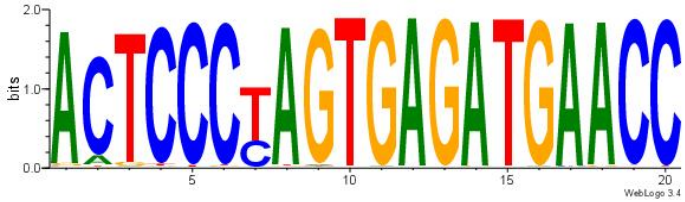

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0767052

Alignment:

```
GGCAATGCCTCGCCCTGCTT
KGCAATGGGG----------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

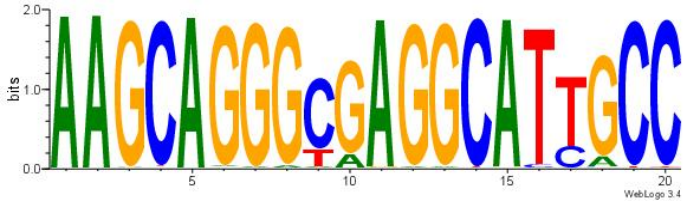

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

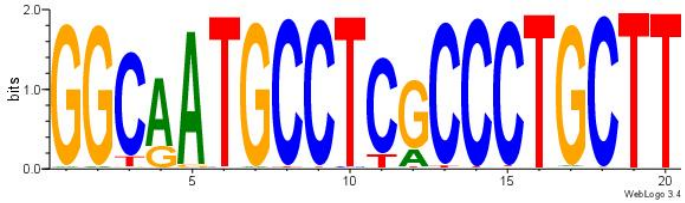

Dataset #:	1

Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0793913

Alignment:

```
AAGGGACATTKGAG
----KGCAATGGGG
```

Original motif Consensus sequence: AAGGGACATTKGAG

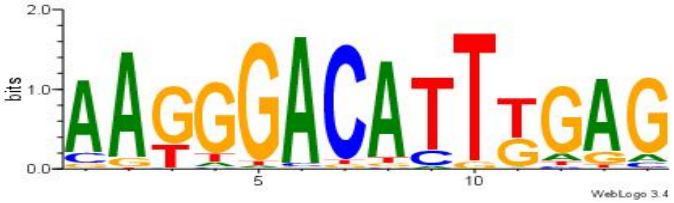

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

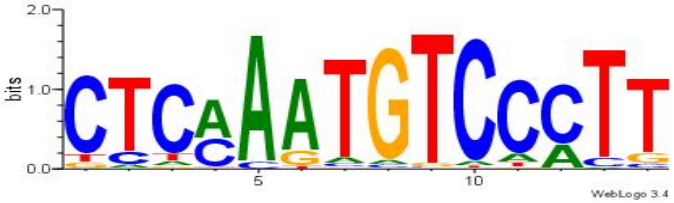

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0794242

Alignment:
TCCAAATGGGAGAAATTGGC
KGCAATGGGG----------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

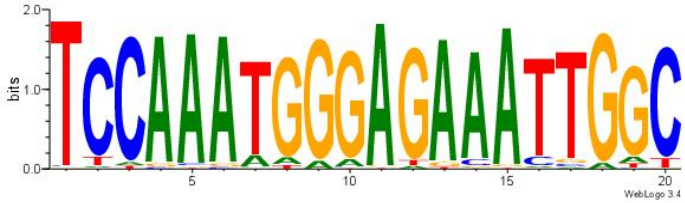

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

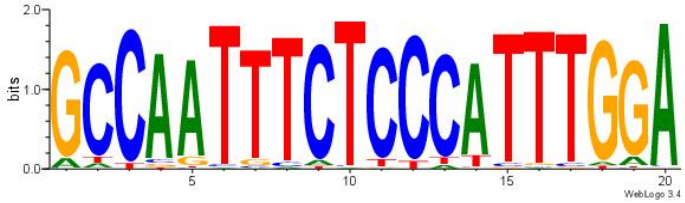

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0797903

Alignment:
KGGGCDGAGGGGCTCCT
--KGCAATGGGG-----

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

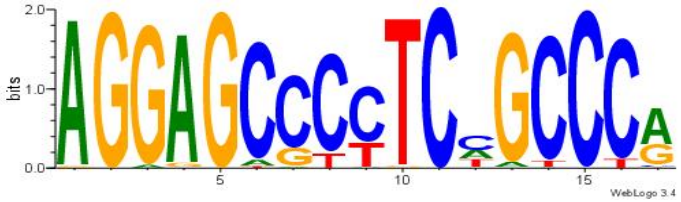

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.080401

Alignment:

```
CCCMKGGCACCCTCAGTCCT
----------CCCCATTGCY
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

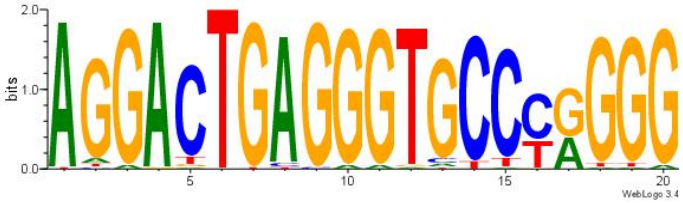

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

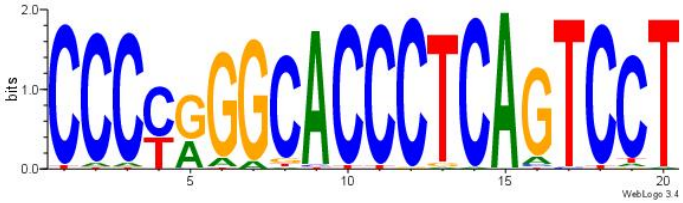

Dataset #:	1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0804336

Alignment:

```
GGTTTTCCATTCCTGAG
----CCCCATTGCY---
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

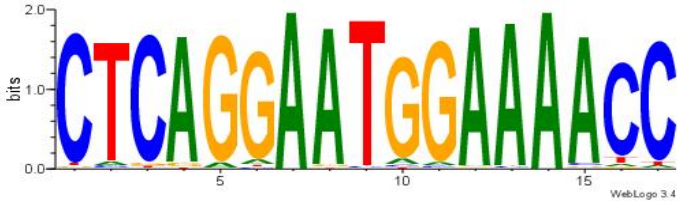

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

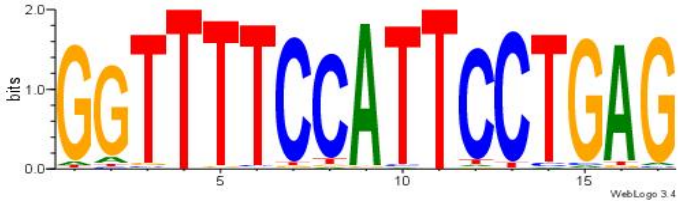

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0805554

Alignment:
GCTCTCAATTGGTCATT
---CCCCATTGCY----

Original motif Consensus sequence: AATGACCAATTGAGAGC

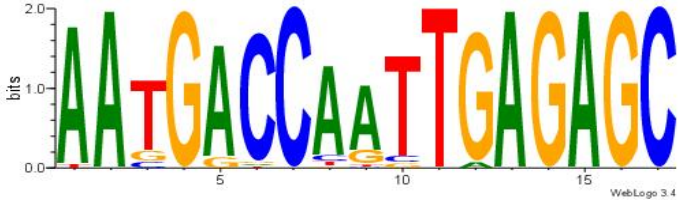

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

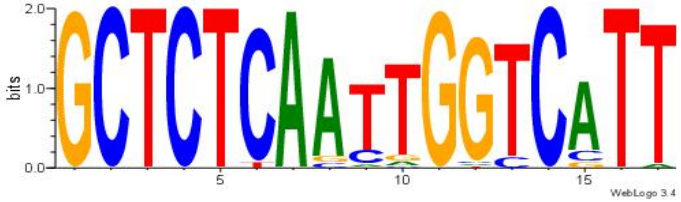

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0808036

Alignment:
AAGACCTTCCAGTGGGACAA
-------KGCAATGGGG---

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

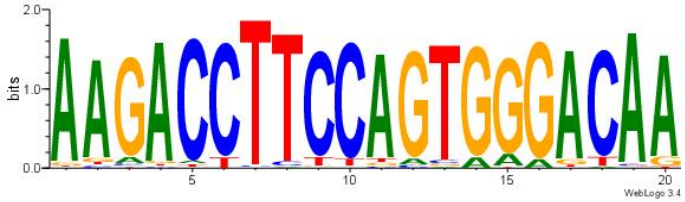

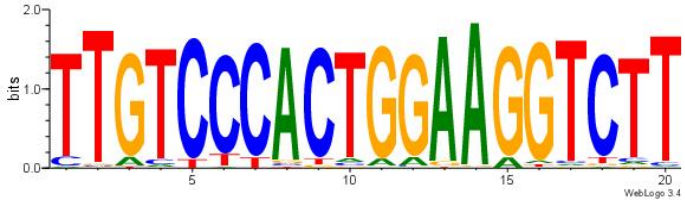

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0810718

Alignment:

```
GCTGCARTCTCGGCACTTT
--KGCAATGGGG-------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

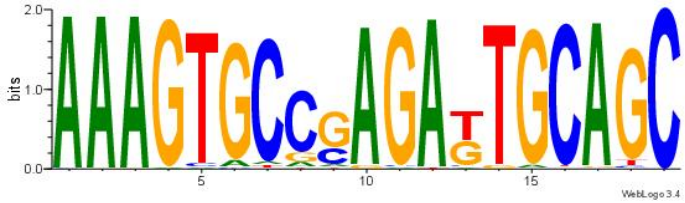

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

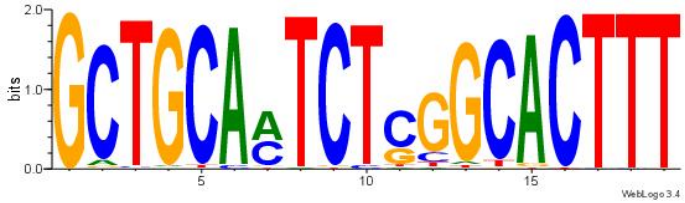

Dataset #:	1

Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0813863

Alignment:

GGGACTTGGG

KGCAATGGGG

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0819837

Alignment:
GTTTAACCATTGAGGGCCAG
----CCCCATTGCY------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

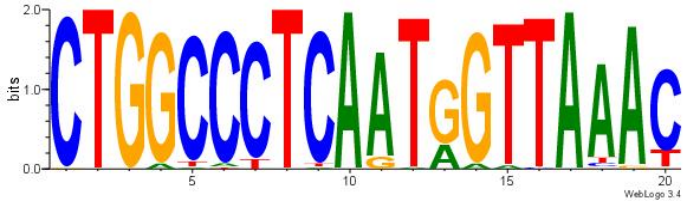

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

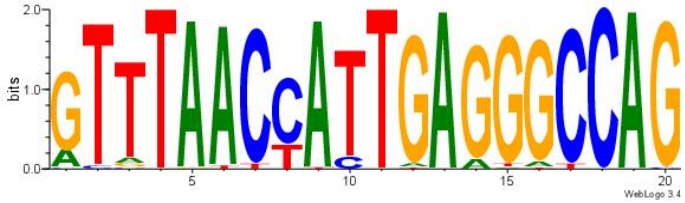

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0825211

Alignment:
AGAAATCGAGCRCAGCGCCG
----------KGCAATGGGG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

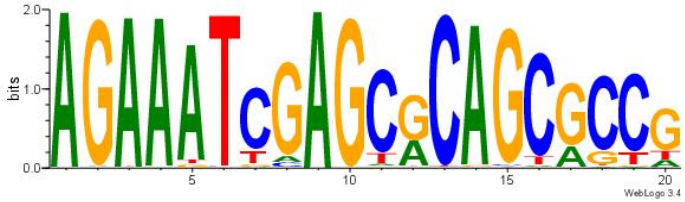

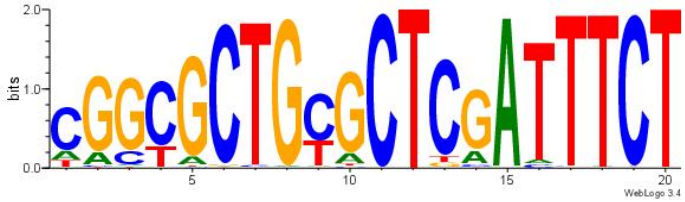

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0828927

Alignment:

```
GGRCKCACWGGAGC
---KGCAATGGGG-
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

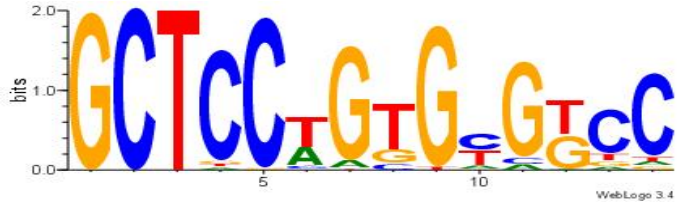

Reverse complement motif Consensus sequence: GGRCKCACWGGAG

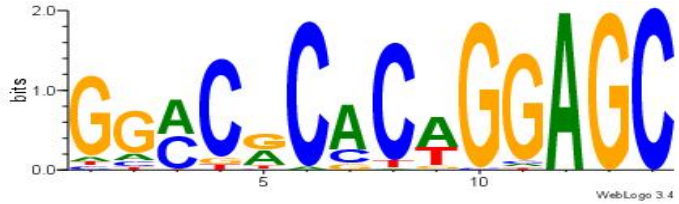

Dataset #:	1
Motif ID:	331

Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0834823

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-CCCCATTGCY---------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

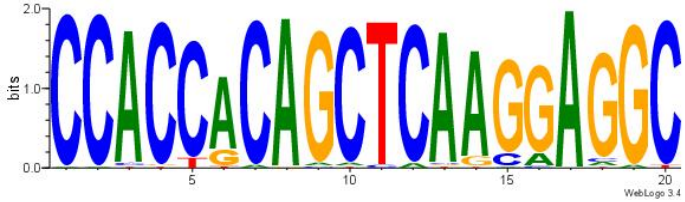

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

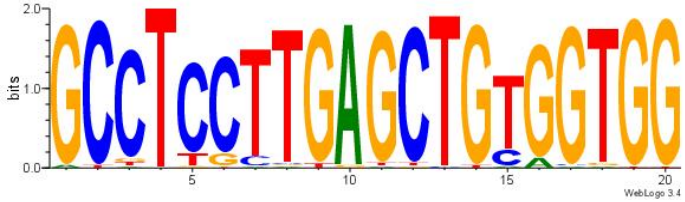

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0838908

Alignment:
AGGAGRCMCTCTGCCTGGC
----CCCCATTGCY-----

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

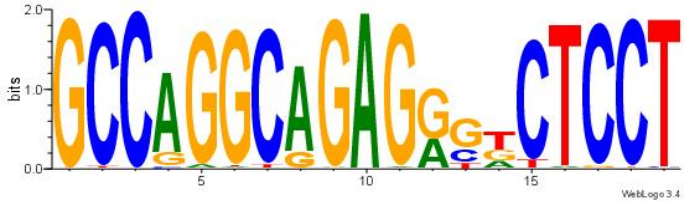

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

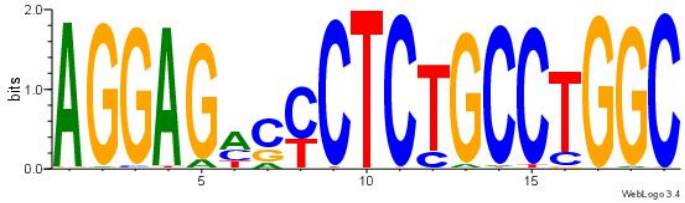

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0840597

Alignment:
AGGAGCGCCTCTKCCCGGC
-----CCCCATTGCY----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

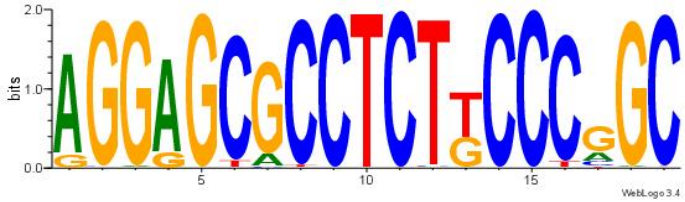

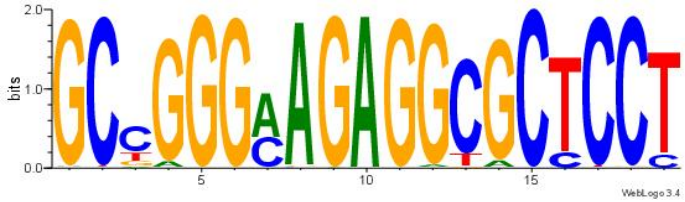

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0843995

Alignment:

```
GGTGCCCCTCTGGGACRAA
----CCCCATTGCY-----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

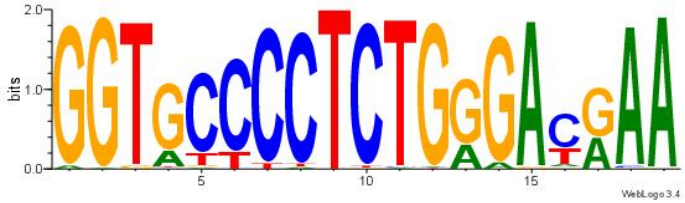

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

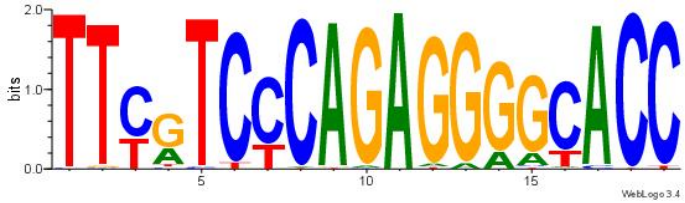

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.084673

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---CCCCATTGCY-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

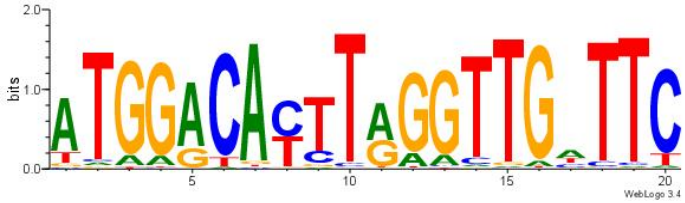

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

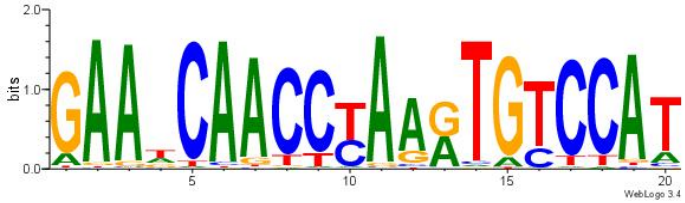

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0855008

Alignment:
CAAGATGGCGGC
KGCAATGGGG--

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

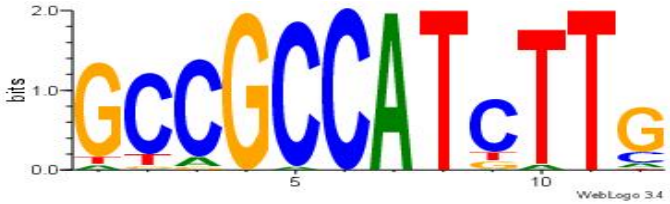

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0855333

Alignment:
GCTCCACCCAGTTCGAGCTT
-----CCCCATTGCY-----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

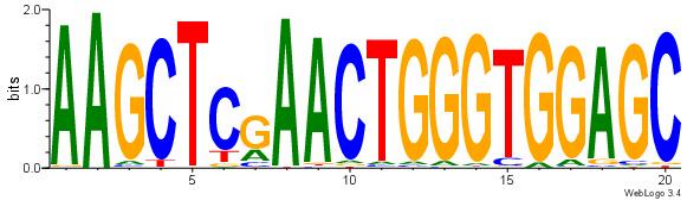

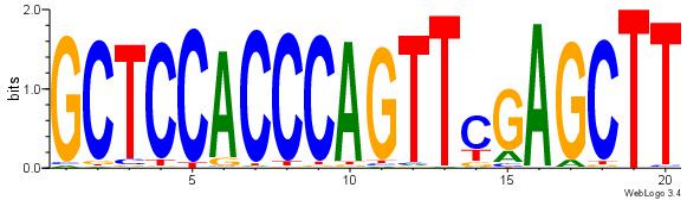

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0856705

Alignment:

```
GCCRGCCCTGCYGGCC
--CCCCATTGCY----
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

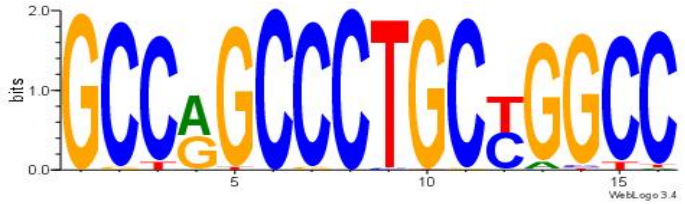

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

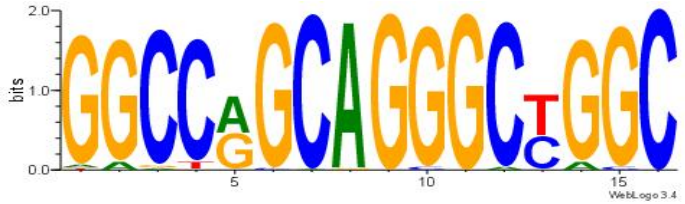

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0856758

Alignment:

```
TGGCTTCACCCAGTGGATCC
---CCCCATTGCY-------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

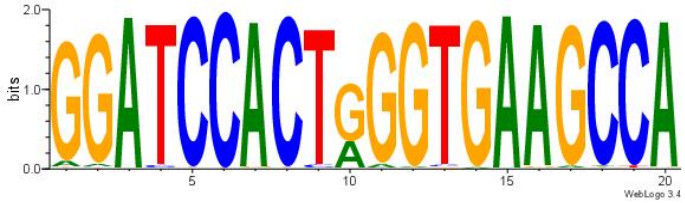

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

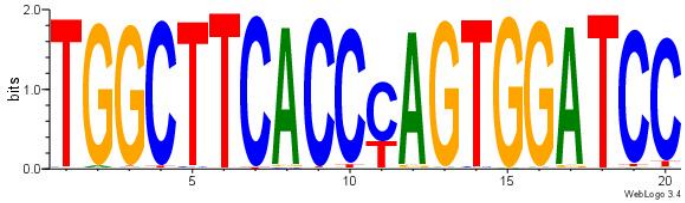

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0859649

Alignment:
GGGGTTGGGG
KGCAATGGGG

Original motif Consensus sequence: CCCCAACCCC

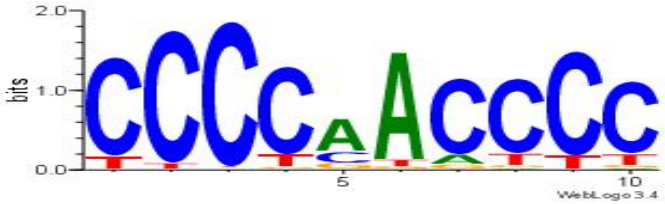

Reverse complement motif Consensus sequence: GGGGTTGGGG

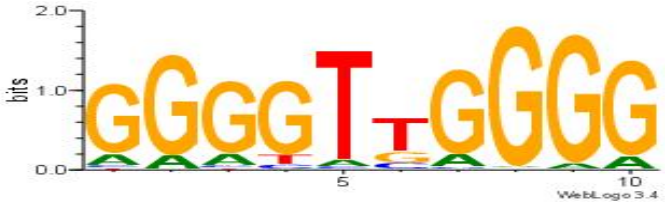

Dataset #:	1
Motif ID:	335
Motif name:	Motif 335
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0862851

Alignment:
TCAGCATTAAC
-CCCCATTGCY

Original motif Consensus sequence: GTTAATGCTGA

Reverse complement motif Consensus sequence: TCAGCATTAAC

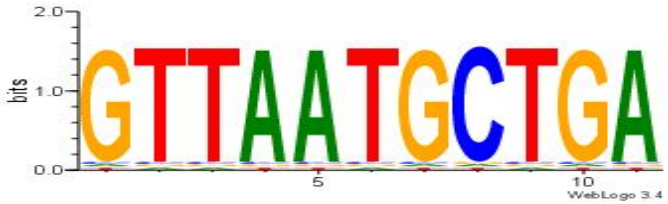

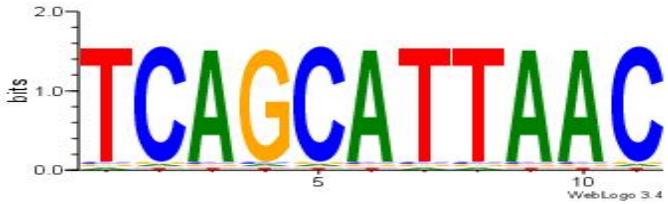

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0864844

Alignment:

```
CCTCCGTGGGCTCC
-CCCCATTGCY---
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

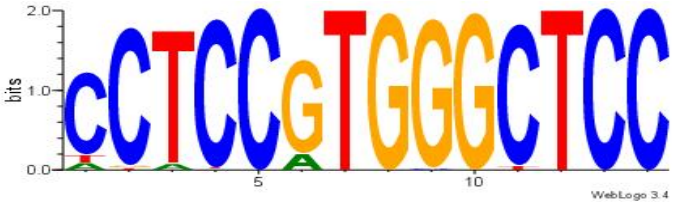

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

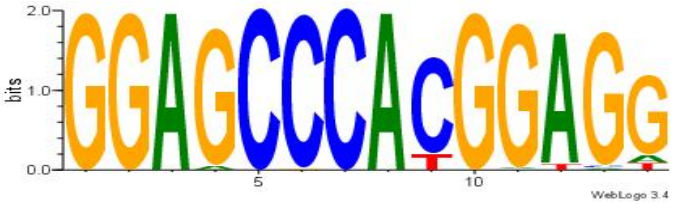

Dataset #:	1
Motif ID:	164

Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0867874

Alignment:

```
AGCCCCGGTTCCCGCYCGC
---CCCCATTGCY------
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

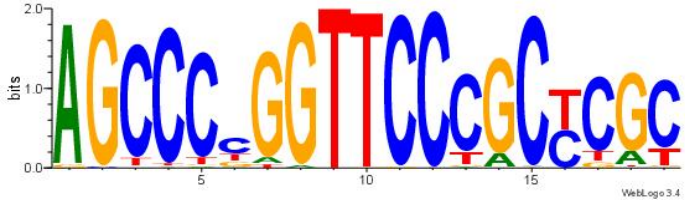

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

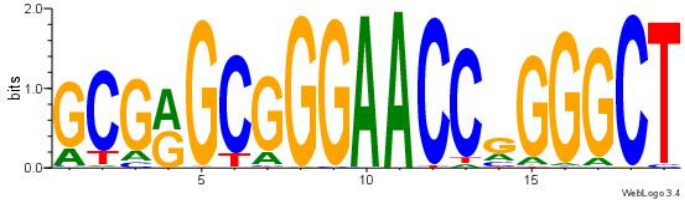

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0870624

Alignment:
ACTTTGGACTGTGGACTTTT
----KGCAATGGGG------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

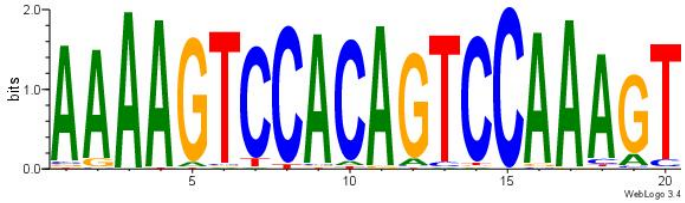

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

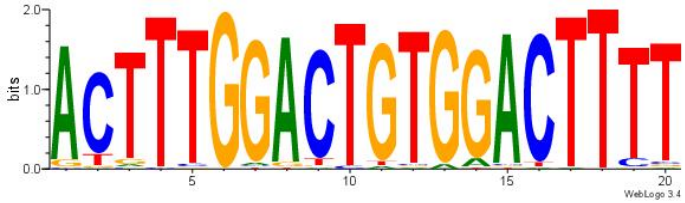

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0876028

Alignment:
CCCAAATCCTATAAAA
CCCCATTGCY------

Original motif Consensus sequence: CCCAAATCCTATAAAA

Reverse complement motif Consensus sequence:
TTTTATAGGATTTGGG

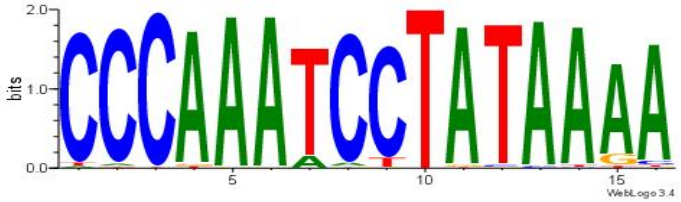

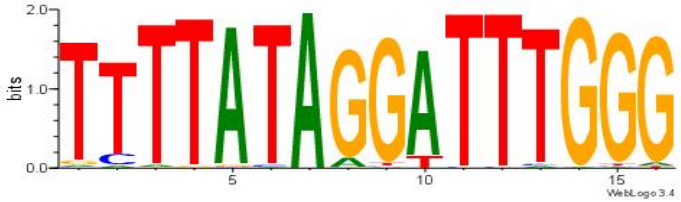

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0878533

Alignment:

```
ACACCTATTCGCACAC
--CCCCATTGCY----
```

Original motif Consensus sequence: ACACCTATTCGCACAC

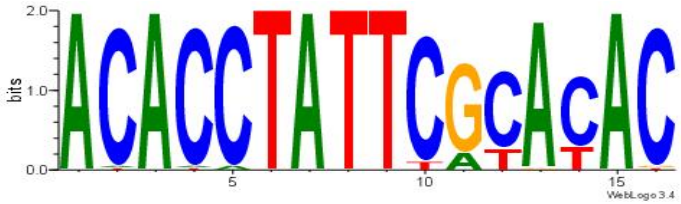

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

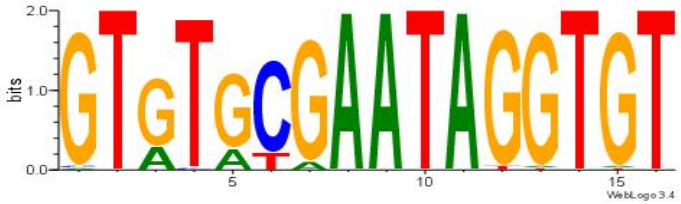

Dataset #:	1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0878803

Alignment:

```
GCTTAGCACCYGGGCCAGC
-----KGCAATGGGG----
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

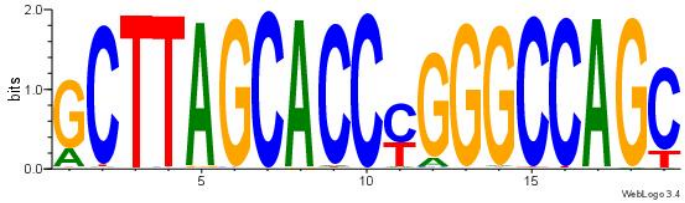

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

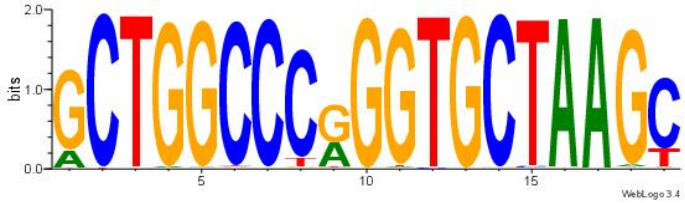

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10

Similarity score: 0.0881212

Alignment:
KKCACCTTGATCTTGGACTT
-CCCCATTGCY---------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

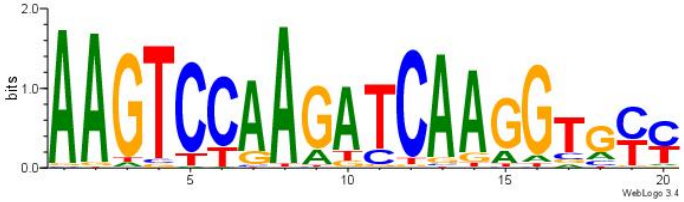

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

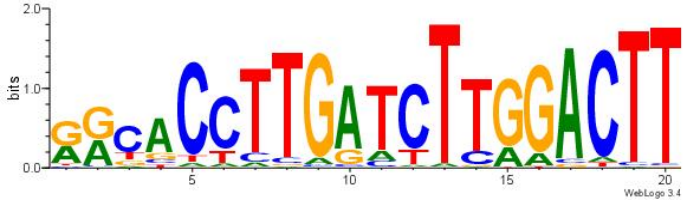

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.0883386

Alignment:
CTCCAGKTMCATCCATGTTG
CCCCATTGCY----------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

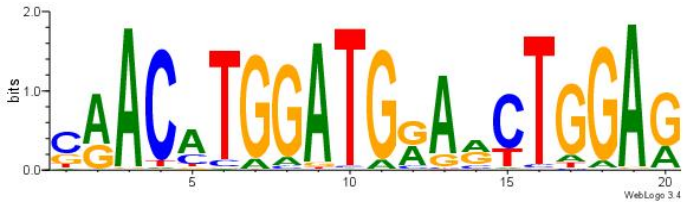

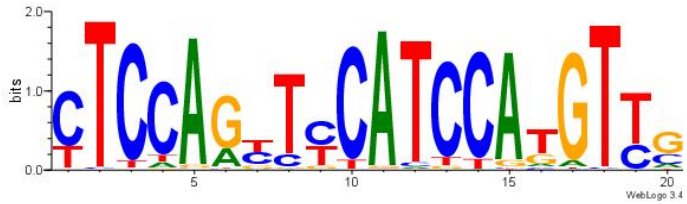

Dataset #: 1 **Motif ID: 91** **Motif name: Motif 91**

Original motif Consensus sequence: AGACYCYGTCTCAA

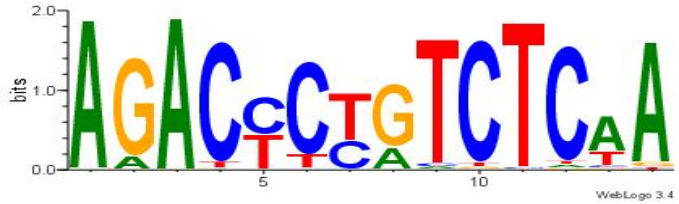

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

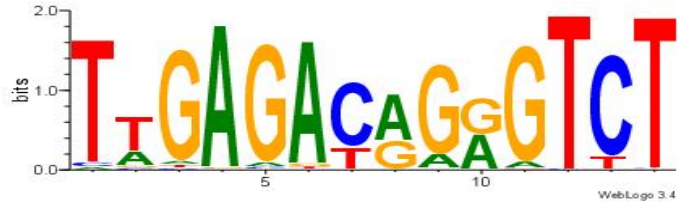

Best Matches for Motif ID 91 (Highest to Lowest)

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0743241

Alignment:

```
GCACTCTGTMTCTAGCT
AGACYCYGTCTCAA---
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

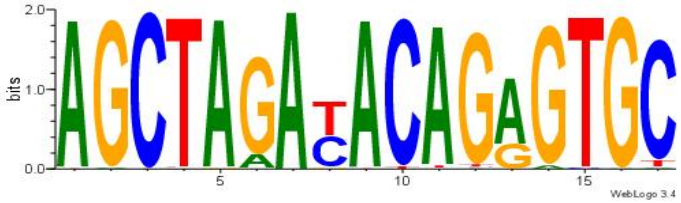

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

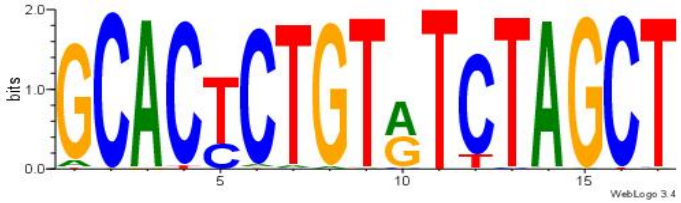

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0811922

Alignment:

```
TACCTGAGACTGGGTAATTT
---TTGAGACMGKGTCT---
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

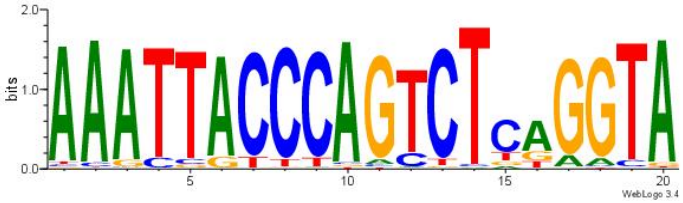

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

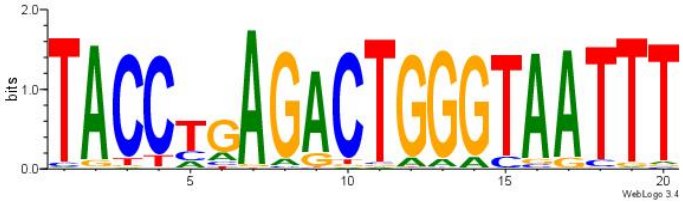

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0815627

Alignment:

```
TGGAGAACCTTTATGTCTAG
TTGAGACMGKGTCT------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

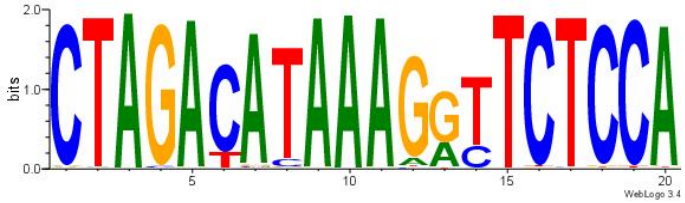

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

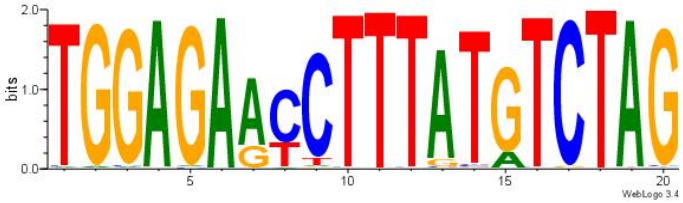

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.0862654

Alignment:
AATGAKATCATGTCYTTTGC
-TTGAGACMGKGTCT-----

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

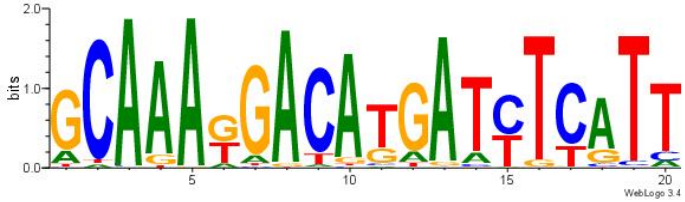

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

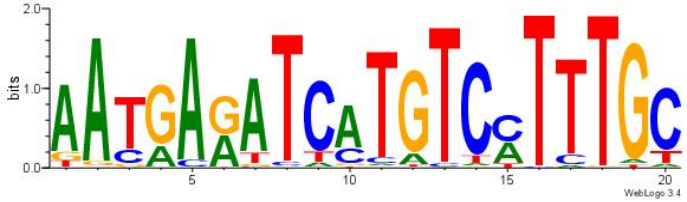

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.0925706

Alignment:
GTGCCAGGCACTGTKCTARG
-----AGACYCYGTCTCAA-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

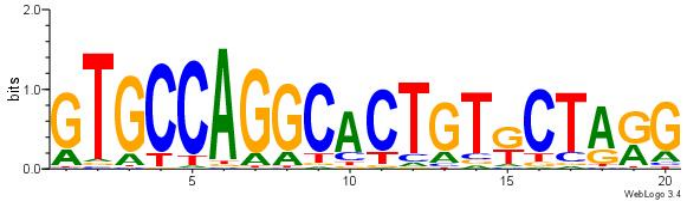

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

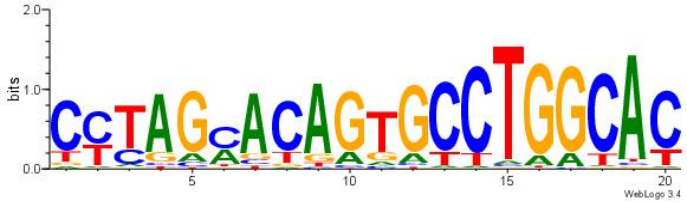

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0935654

Alignment:

```
TAATTTTATGTGTCAACTTG
--AGACYCYGTCTCAA----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

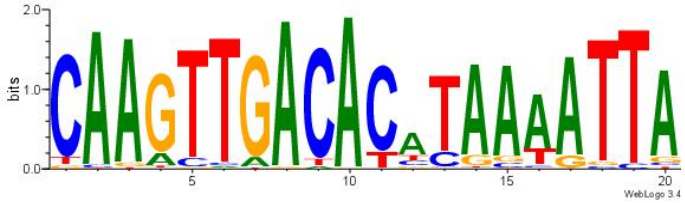

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

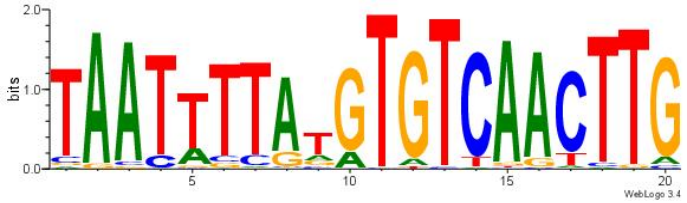

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0958877

Alignment:

```
AAAGCTGGAGCTATTATCTA
-----TTGAGACMGKGTCT-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

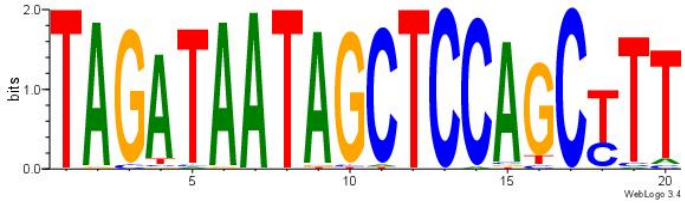

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

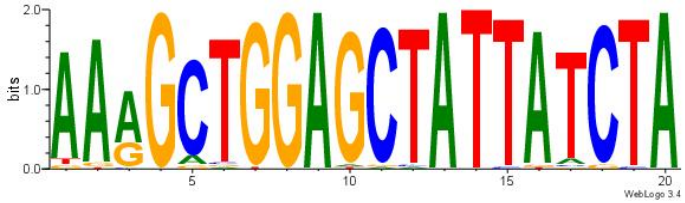

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.096233

Alignment:
AGAGTCTCACTCTGT
AGACYCYGTCTCAA-

Original motif Consensus sequence: AGAGTCTCACTCTGT

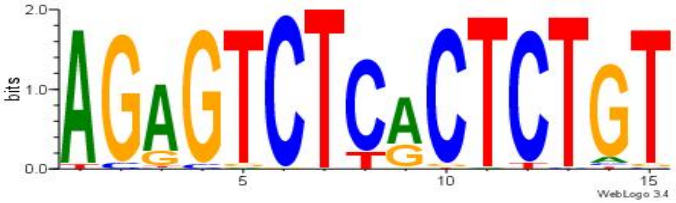

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

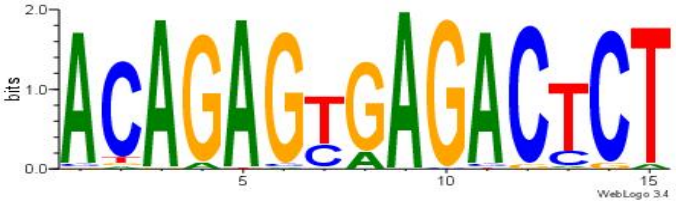

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.0967556

Alignment:
GCCKGGMKCMGTGGCTCAKG
--TTGAGACMGKGTCT----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

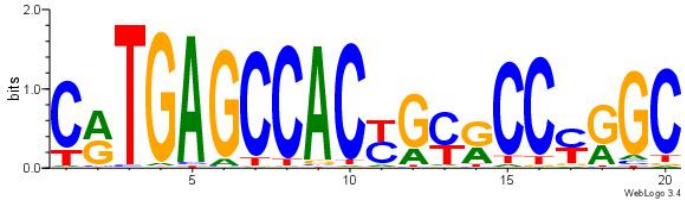

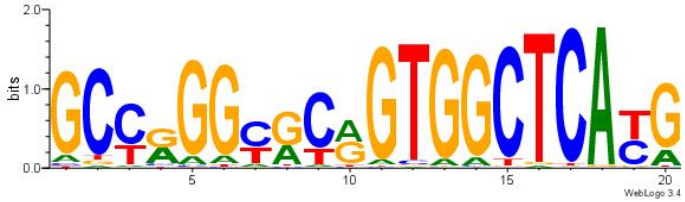

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0970651

Alignment:

```
CAGACTGCCTCCTCAA
-AGACYCYGTCTCAA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

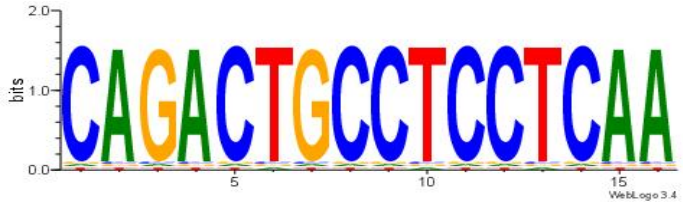

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

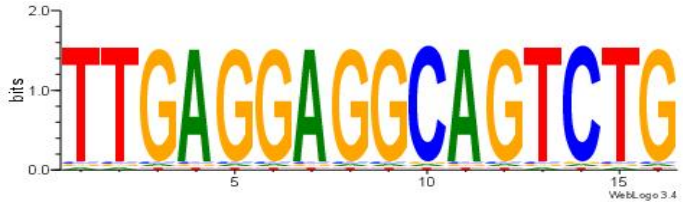

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0971377

Alignment:

```
ACAGGCTGTCCCAGGATTC
AGACYCYGTCTCAA-----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

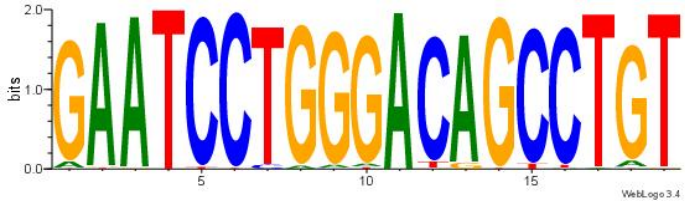

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

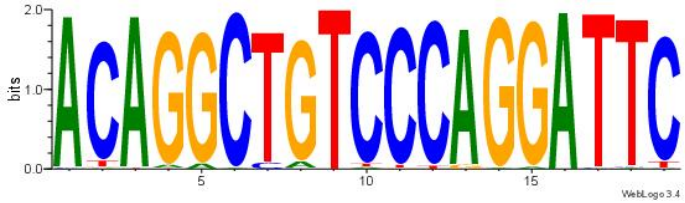

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.0986052

Alignment:
CAGTCTGTGTCTTTTAATT
-AGACYCYGTCTCAA----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

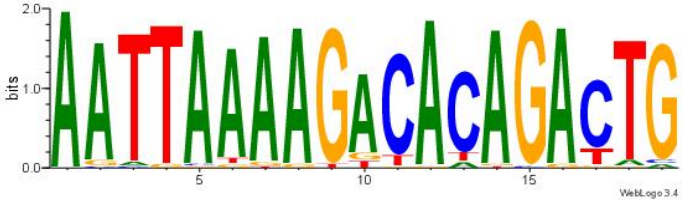

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

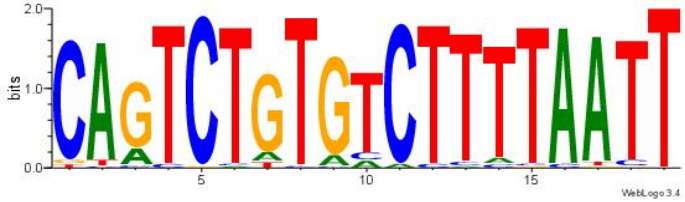

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.1001

Alignment:
CCACCACAGCTCAAGGAGGC
AGACYCYGTCTCAA------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

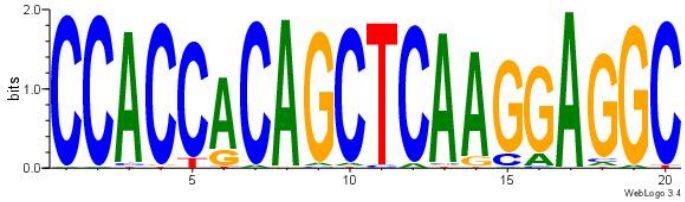

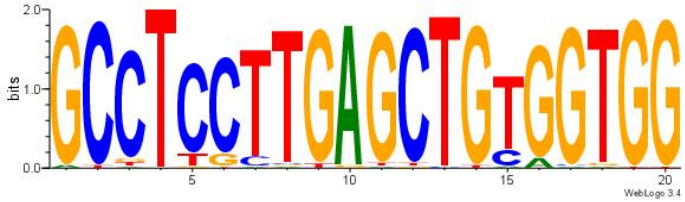

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.10021

Alignment:

```
GTGGCCCTCTTCTCACAGCT
--AGACYCYGTCTCAA----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

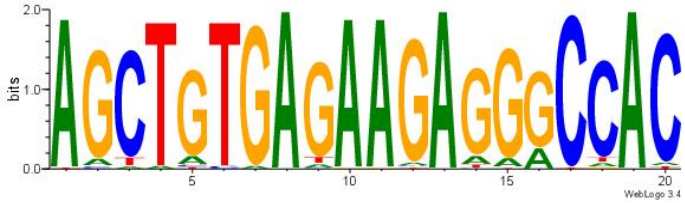

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

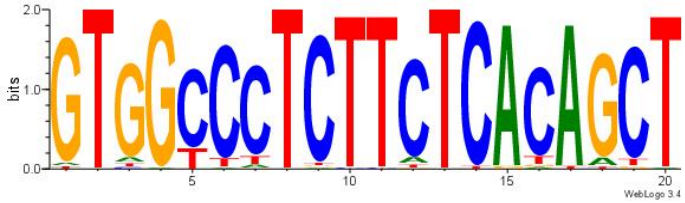

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.100485

Alignment:

```
TGGCTTCACCCAGTGGATCC
----TTGAGACMGKGTCT--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

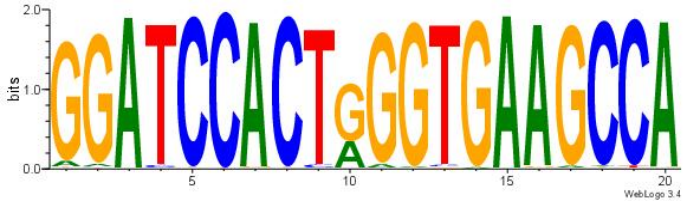

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

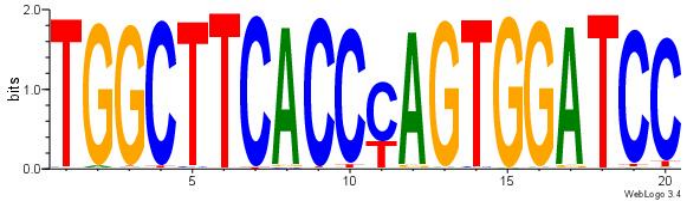

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.101586

Alignment:
ARCTCCTGKSCTCAAGKGAT
-----AGACYCYGTCTCAA-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

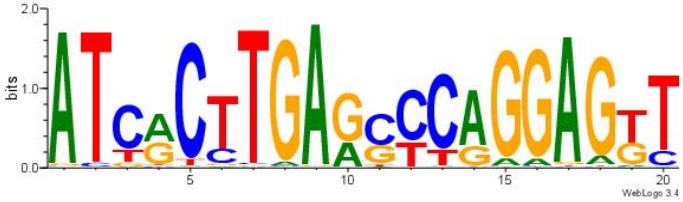

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

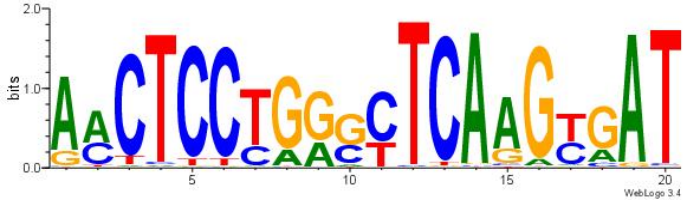

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.103691

Alignment:
GTGTGCGAATAGGTGT
--TTGAGACMGKGTCT

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence:
GTGTGCGAATAGGTGT

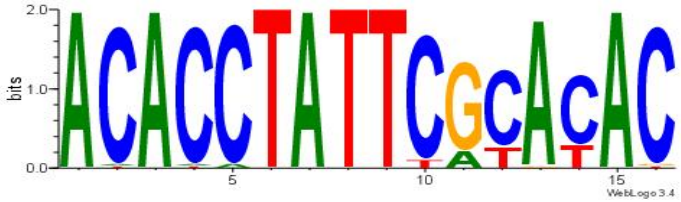

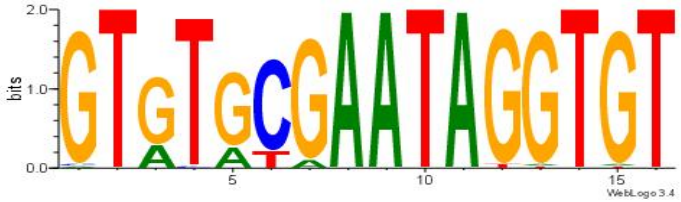

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.104306

Alignment:

```
ACAGGCTTTGTGTGAGCA
--AGACYCYGTCTCAA--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

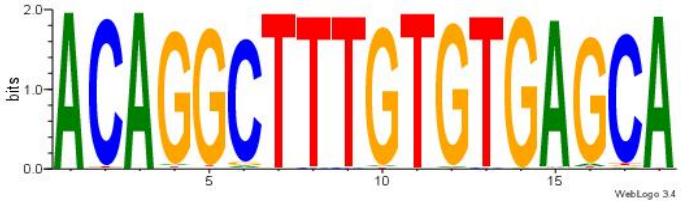

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

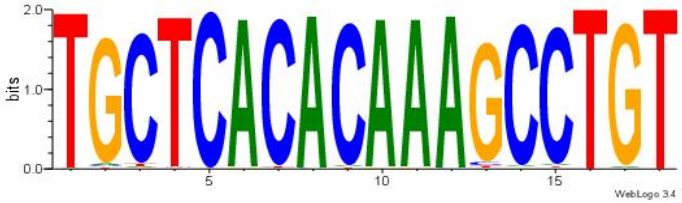

Dataset #:	1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.105549

Alignment:

```
GCGMGCGGGAACCGGGGCT
-----TTGAGACMGKGTCT
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

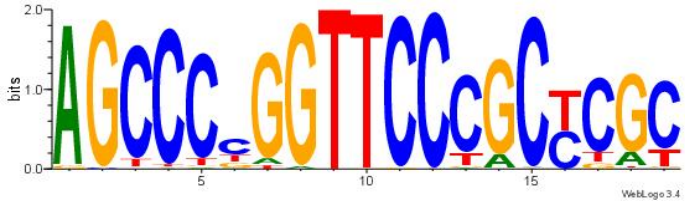

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

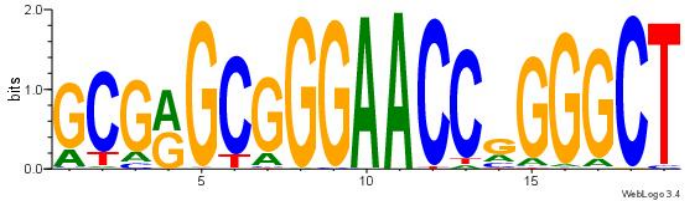

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.105837

Alignment:
AWTKKTGGTTKCCAGKGGCT
------TTGAGACMGKGTCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

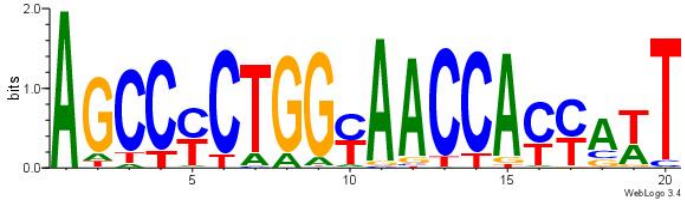

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

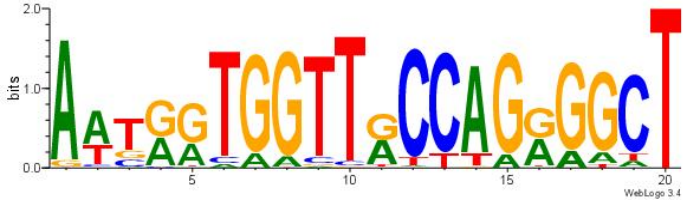

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.106937

Alignment:
GTGTCKGGAGTTTGTTCCTT
-----TTGAGACMGKGTCT-

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

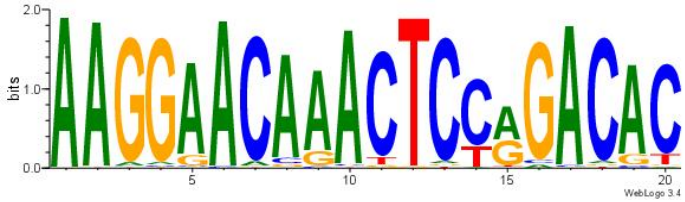

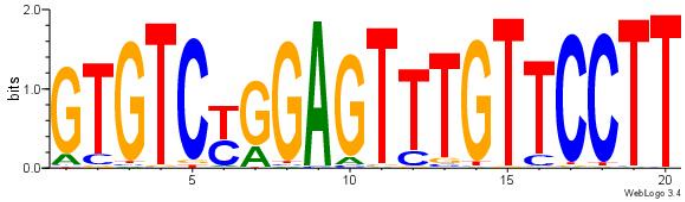

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.108109

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
------AGACYCYGTCTCAA
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

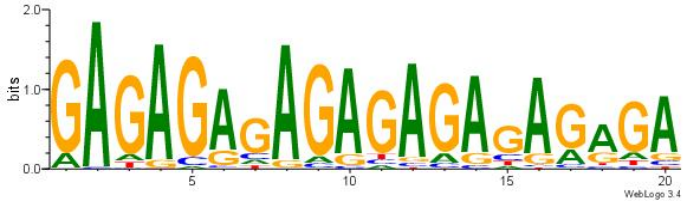

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

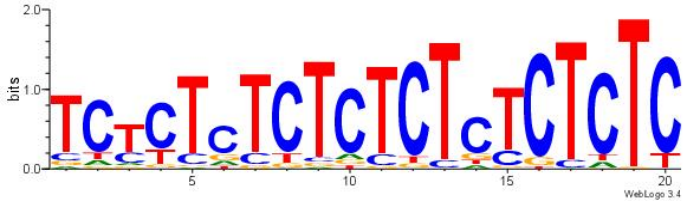

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.108256

Alignment:

```
CCCAAATCTCATSTTGAAT
---AGACYCYGTCTCAA--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

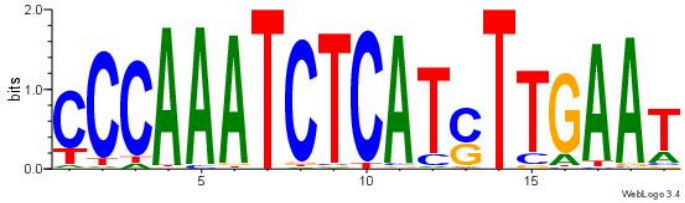

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

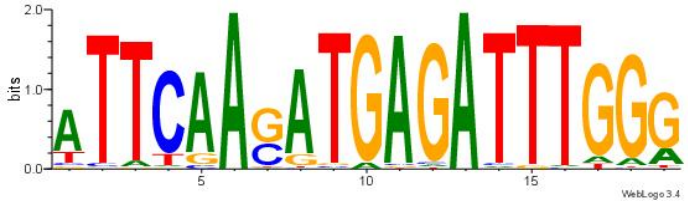

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.109196

Alignment:
GCCAGGCAGAGRGKCTCCT
---TTGAGACMGKGTCT--

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

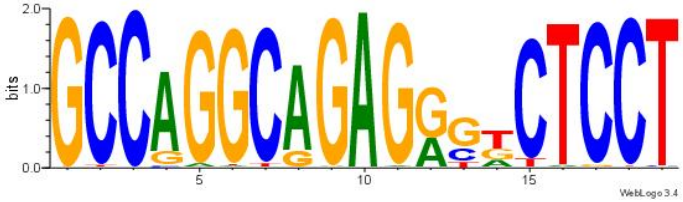

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

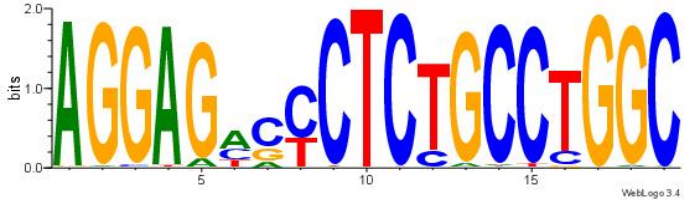

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.109196

Alignment:
GCAGCAMTATTCACAATAG
---AGACYCYGTCTCAA--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

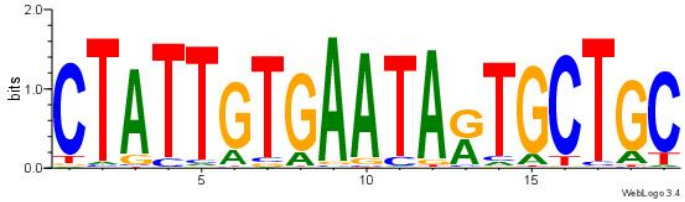

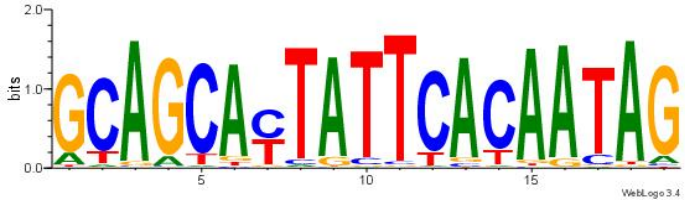

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.109282

Alignment:

```
CTGGGCRACAGAGYRAGACY
TTGAGACMGKGTCT------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

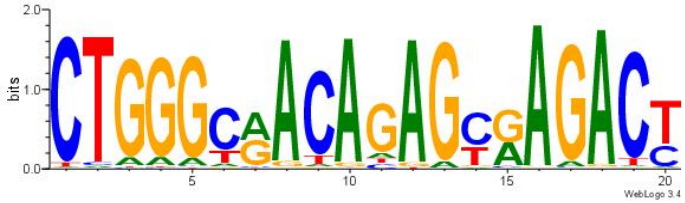

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

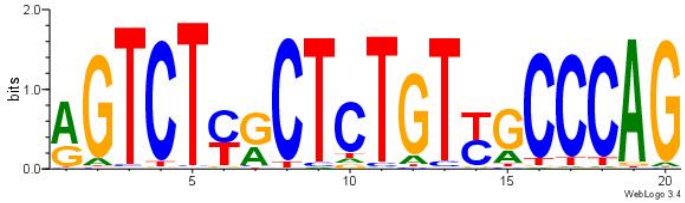

Dataset #:	1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.109552

Alignment:

```
ACGCCCACGGAGTCTC
-TTGAGACMGKGTCT-
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

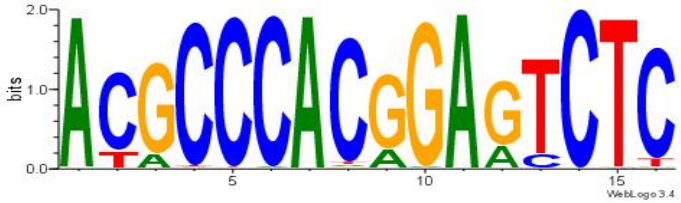

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

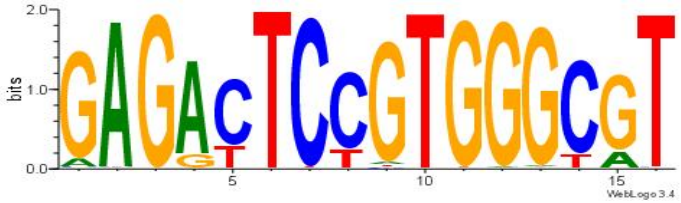

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.109649

Alignment:
CTCCTGCCTCAGCCTCCCRA
----AGACYCYGTCTCAA--

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

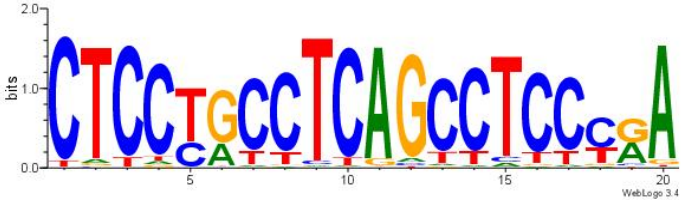

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

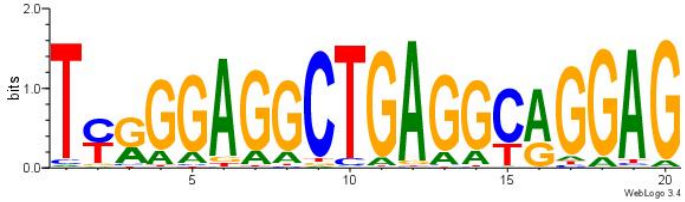

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.109862

Alignment:
ATGGACAYTTRGGTTGHTTC
-----TTGAGACMGKGTCT-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

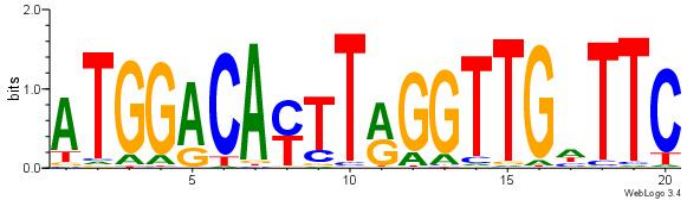

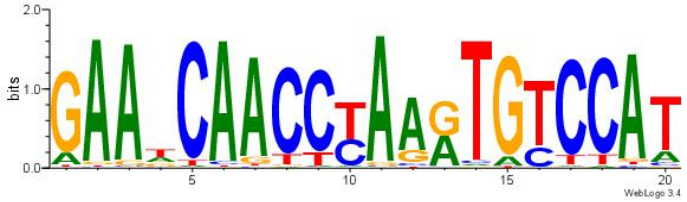

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.11012

Alignment:

```
AGGASCSTCYSWGCCMGGY
---AGACYCYGTCTCAA--
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

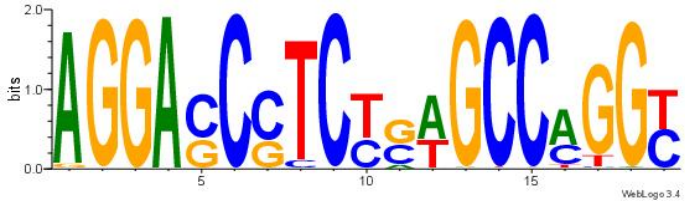

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

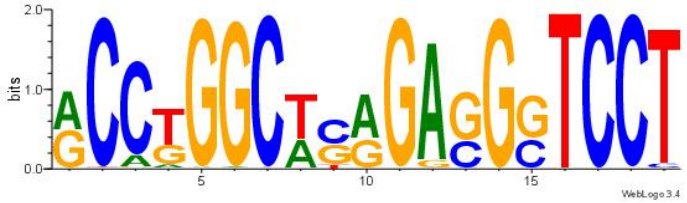

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.111868

Alignment:

```
CAAGCGCCAGCTCATGTC
-AGACYCYGTCTCAA---
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

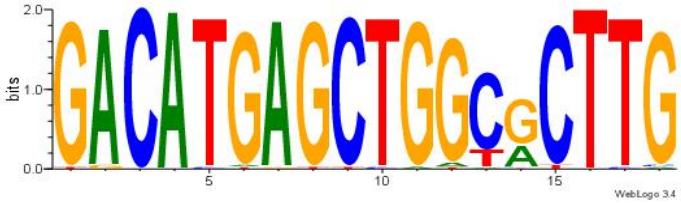

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

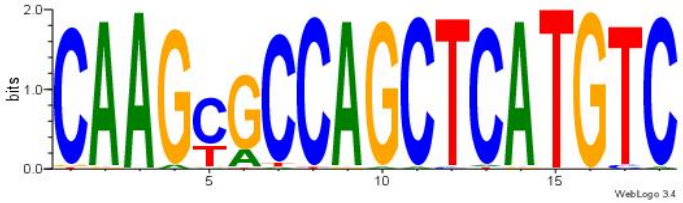

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.112156

Alignment:
GTAGACKGGAGCTGTTCCT
---AGACYCYGTCTCAA--

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

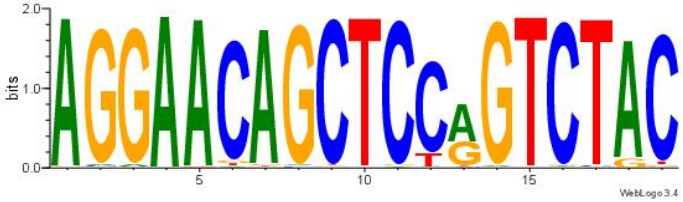

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

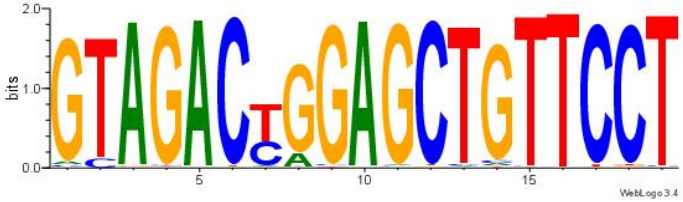

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.112247

Alignment:
AGGCCCCAGTGTSTGTTGTT
TTGAGACMGKGTCT------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

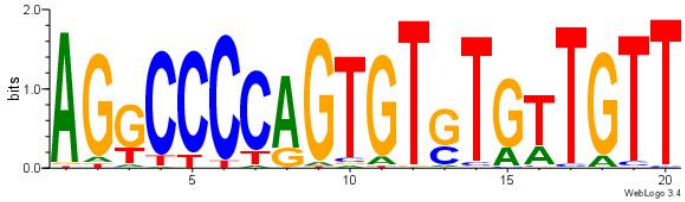

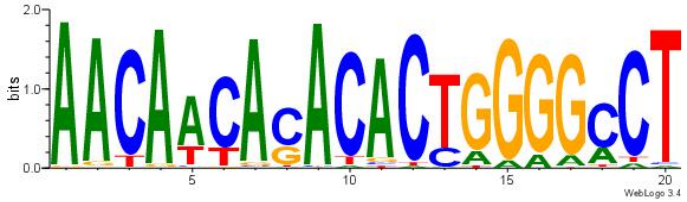

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.112503

Alignment:

```
CTGTTTGCCTGGGTATCA
--TTGAGACMGKGTCT--
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

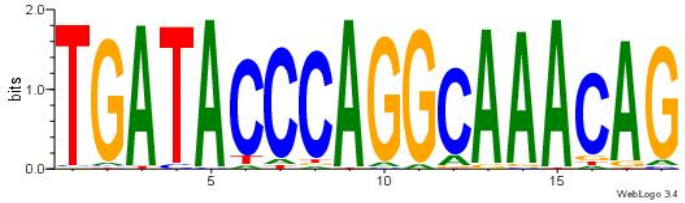

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

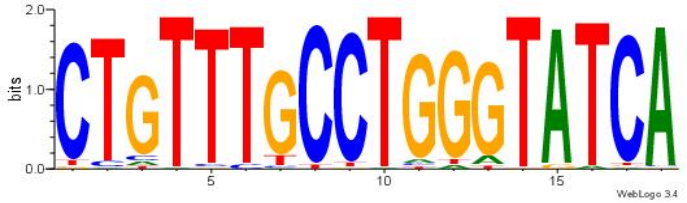

Dataset #:	1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112511

Alignment:

```
TGTGTGTGTGTKTGTGTGT
-----TTGAGACMGKGTCT
```

Original motif Consensus sequence: ACACACAYACACACACACA

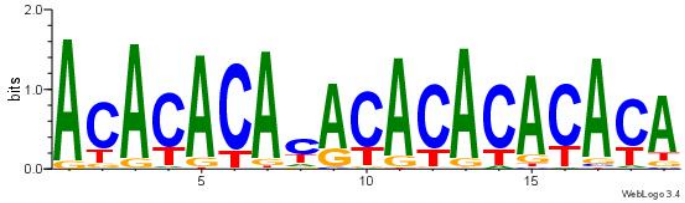

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

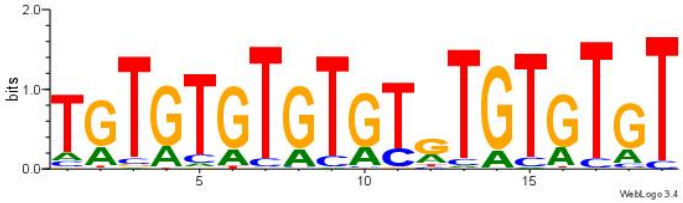

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.112831

Alignment:
CTGGGCTCCTGAGTCTGGTG
----TTGAGACMGKGTCT--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

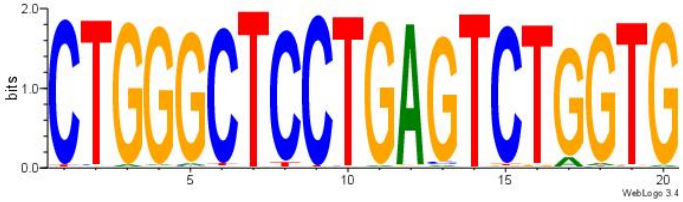

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

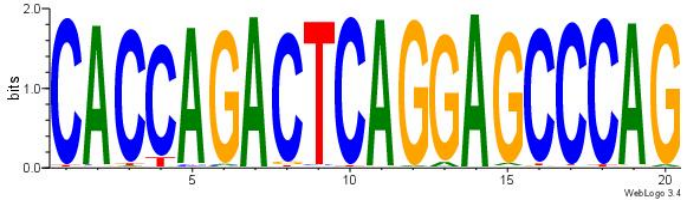

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.113165

Alignment:
ACTTTGGACTGTGGACTTTT
--TTGAGACMGKGTCT----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

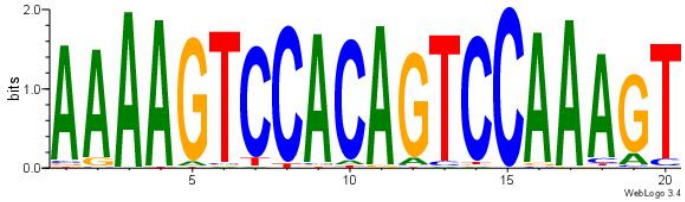

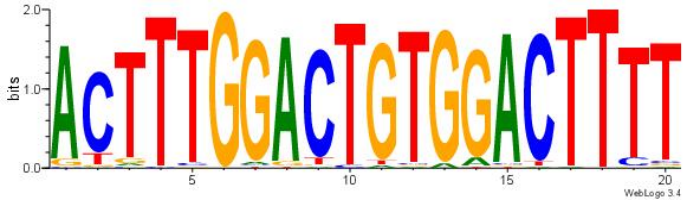

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.113893

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-TTGAGACMGKGTCT-----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

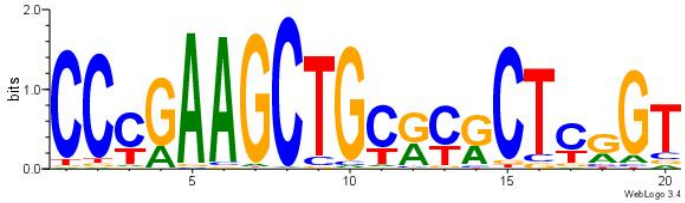

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

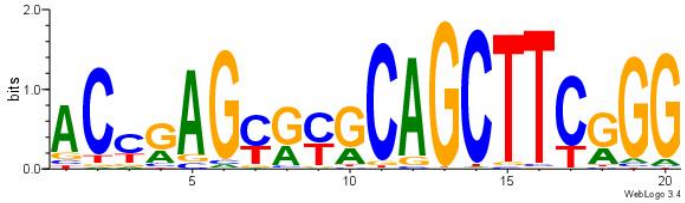

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.114052

Alignment:

```
AGGTCCTTCAGGAGGTATTC
------TTGAGACMGKGTCT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

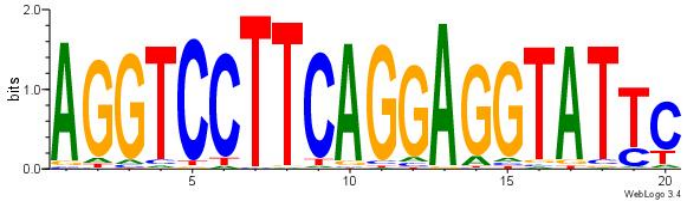

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

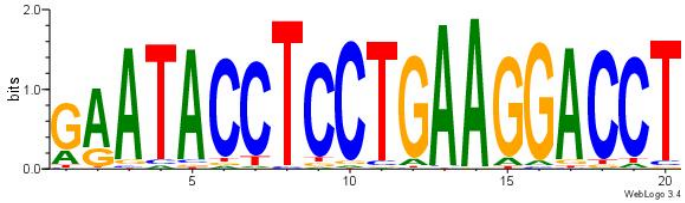

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.114972

Alignment:
CAATGATAGACTGGAT
--TTGAGACMGKGTCT

Original motif Consensus sequence: ATCCAGTCTATCATTG

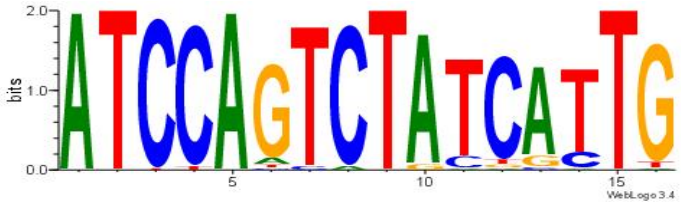

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

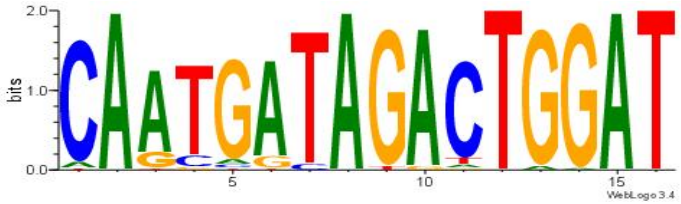

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.115044

Alignment:
CTCAGTGTTAATCTCCTGTC
---AGACYCYGTCTCAA---

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

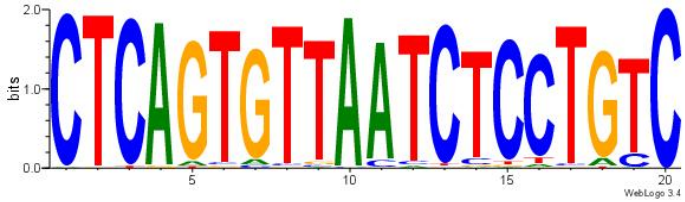

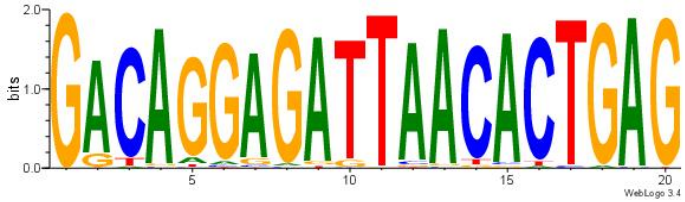

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.115226

Alignment:

```
AAAMAMMKMATGTTCTCACT
-AGACYCYGTCTCAA-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

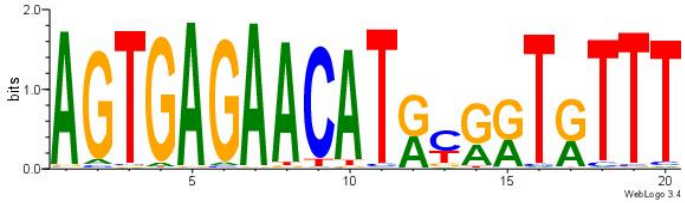

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

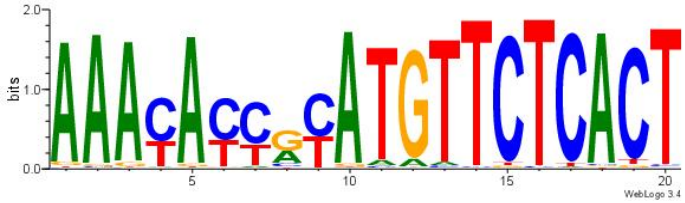

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.115503

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---AGACYCYGTCTCAA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

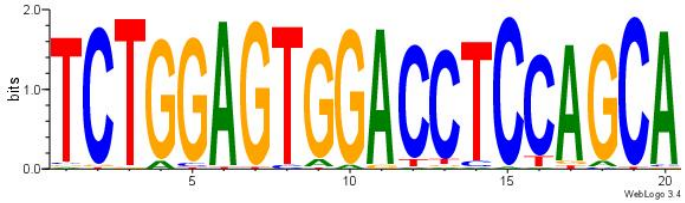

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

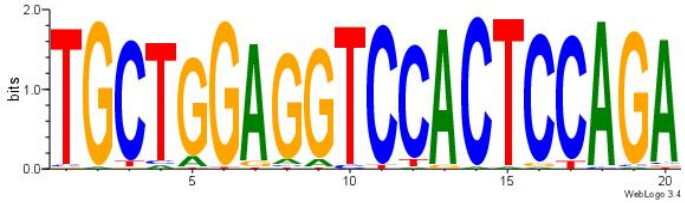

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.115922

Alignment:
AGAGCCAAATCATGARTGAA
------AGACYCYGTCTCAA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

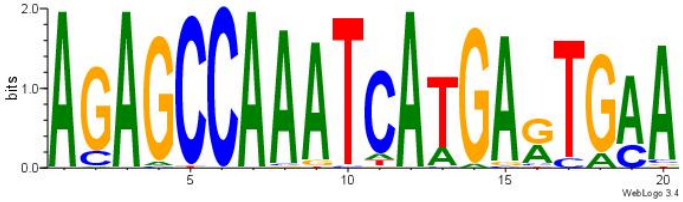

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

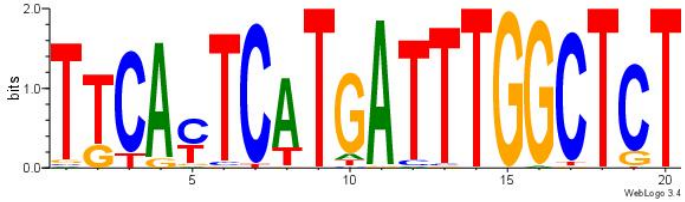

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.116528

Alignment:
AGGAGCCCCTCHGCCCR
---AGACYCYGTCTCAA

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

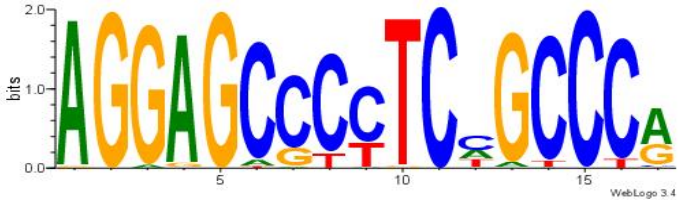

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.116738

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--AGACYCYGTCTCAA----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

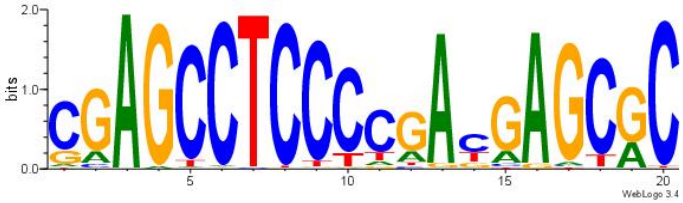

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

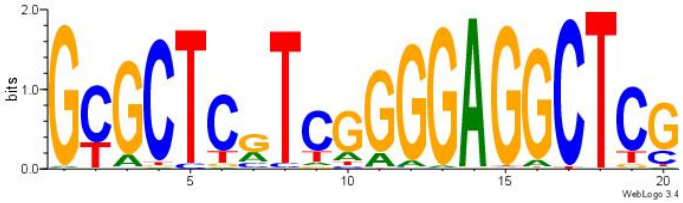

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.11759

Alignment:

```
ACTCAGCCCRCCTGCACCC
--AGACYCYGTCTCAA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

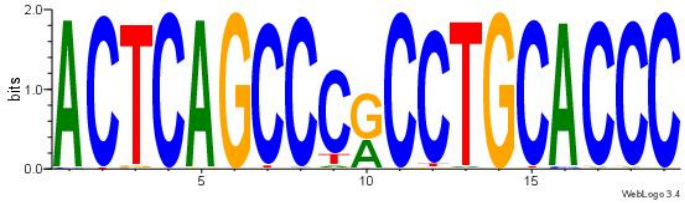

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

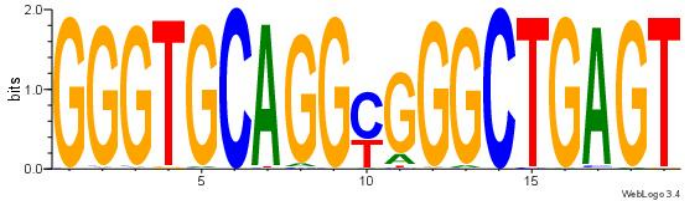

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.117788

Alignment:
AGGCTGTTTTACAGTTAAC
AGACYCYGTCTCAA-----

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

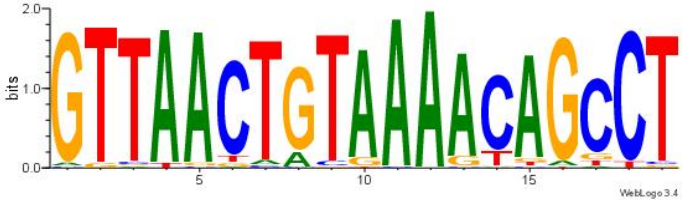

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

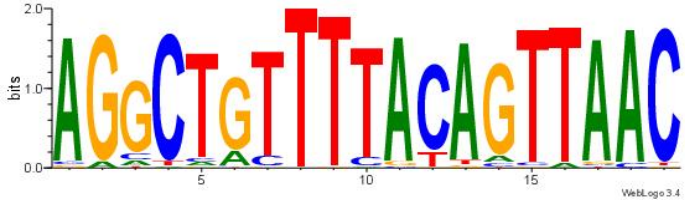

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.118038

Alignment:
VMATTTAKTGAGCACCTACT
---TTGAGACMGKGTCT---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

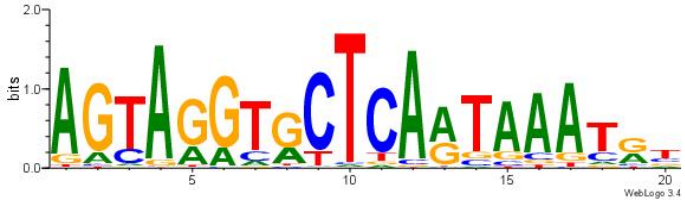

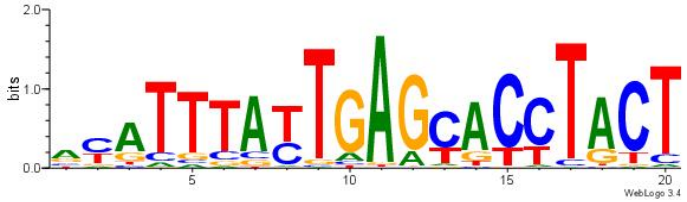

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.118288

Alignment:

```
ATCTCASAAATCACCACTA
-----AGACYCYGTCTCAA
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

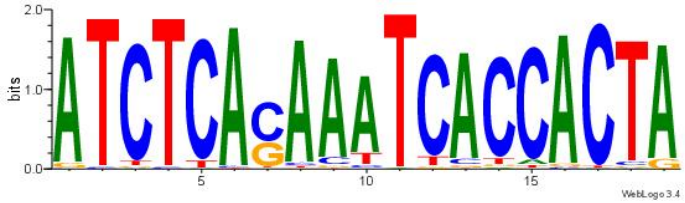

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

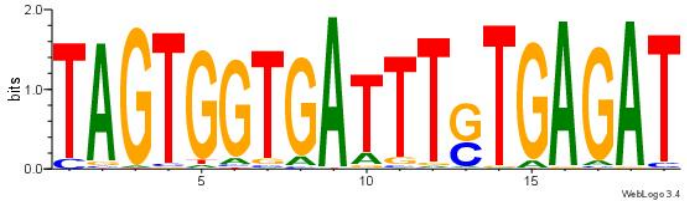

Dataset #: 1 Motif ID: 92 Motif name: Motif 92

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

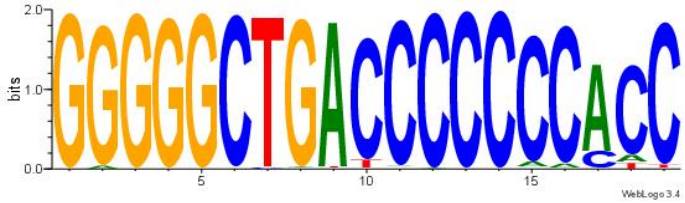

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

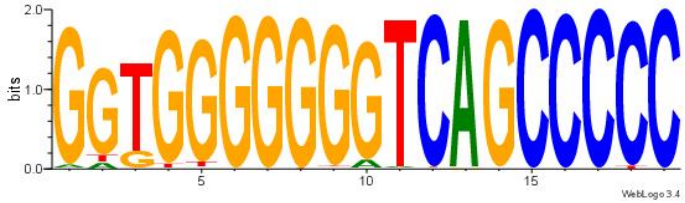

Best Matches for Motif ID 92 (Highest to Lowest)

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.100201

Alignment:

```
GACTGGCAGGCAGCTCCACC
-GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

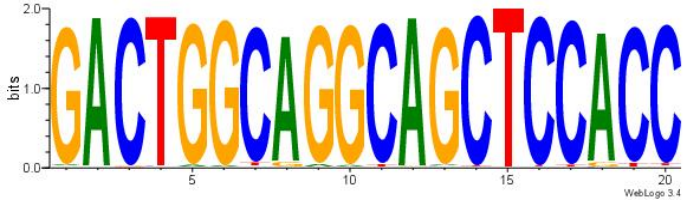

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

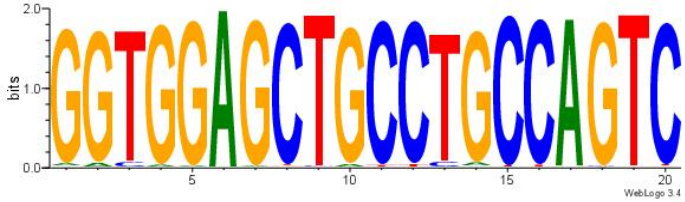

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.10109

Alignment:

```
CTGACTGGGAGACACCTCCC
-GGTGGGGGGGTCAGCCCCC
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

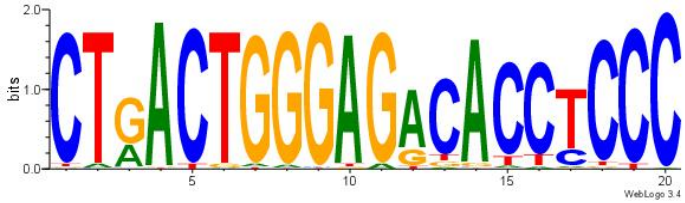

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

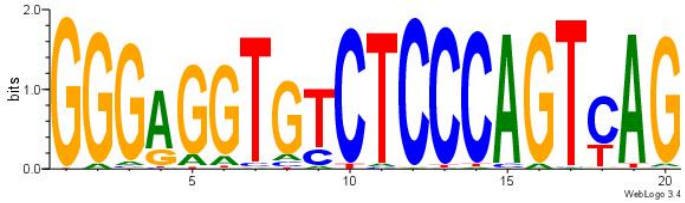

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number: 2
Number of overlap: 19
Similarity score: 0.111897

Alignment:
ATGTGGAGGTGGAAGACAGT
-GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

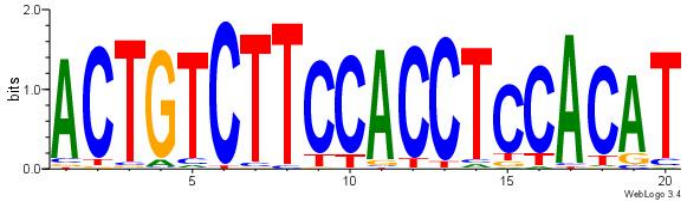

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

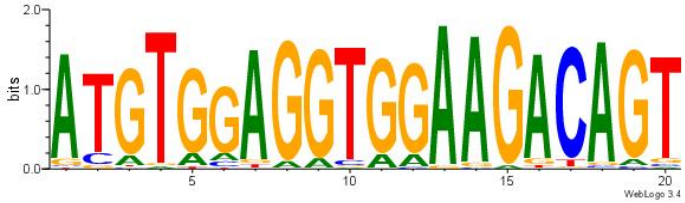

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.111901

Alignment:
TGCTGGAGGTCCACTCCAGA
-GGGGGCTGACCCCCCCACC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

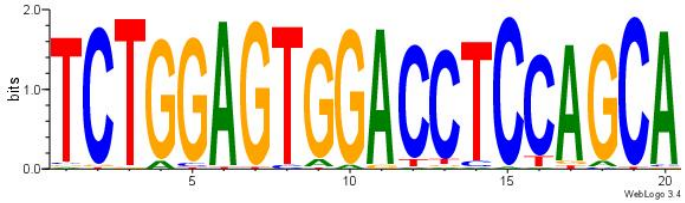

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

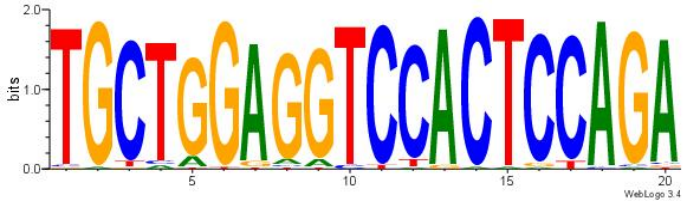

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.113858

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GGGGGCTGACCCCCCCACC-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

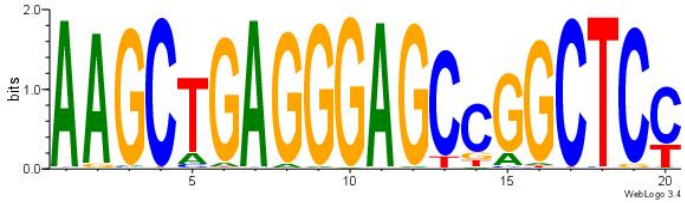

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

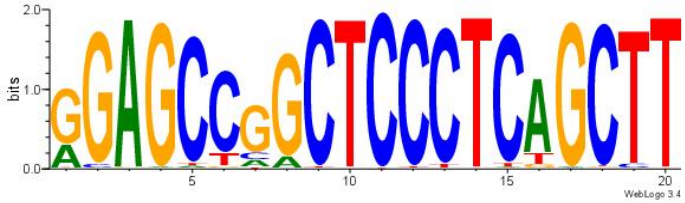

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.114135

Alignment:
GCCGGGRAGAGGCGCTCCT
GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

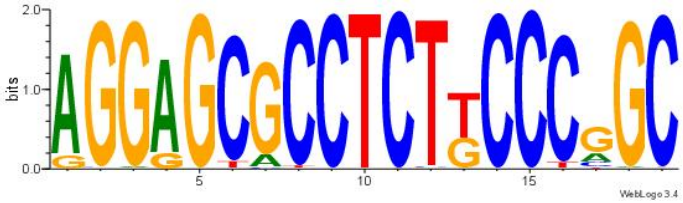

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

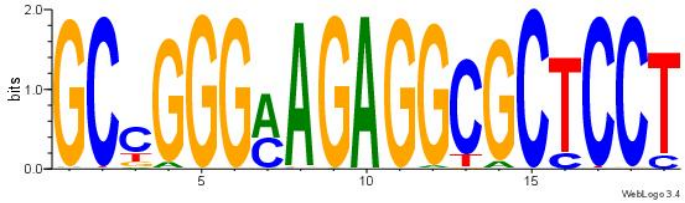

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.114657

Alignment:
GGGTCAGGGAGTTCCCTTTC
-GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

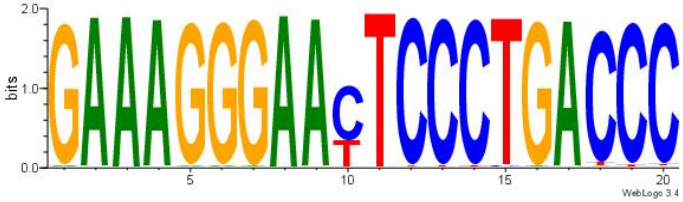

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

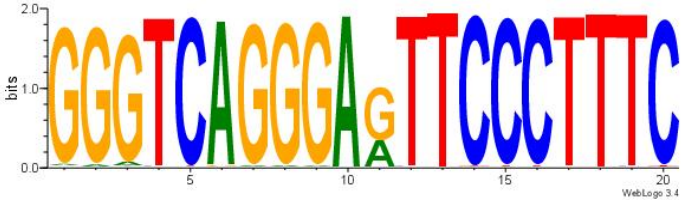

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.120635

Alignment:
AGAAATCGAGCRCAGCGCCG
GGTGGGGGGGTCAGCCCCC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

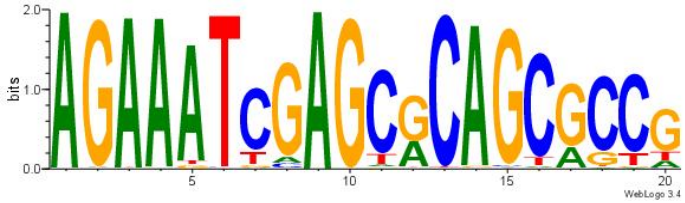

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

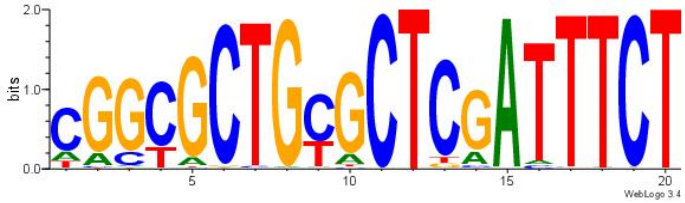

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.12289

Alignment:

```
ACAGGCTGTCCCAGGATTC
GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

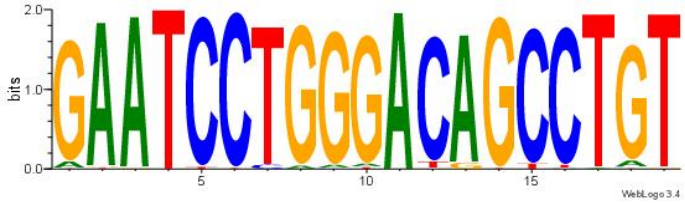

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

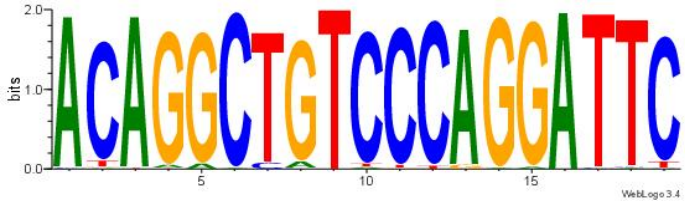

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.126312

Alignment:
GTGGCCCTCTTCTCACAGCT
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

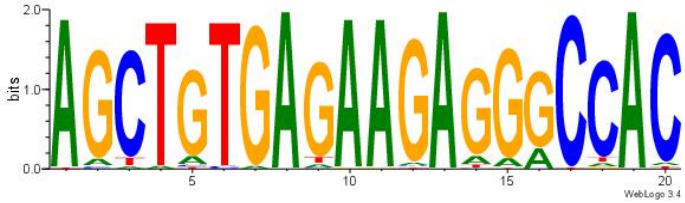

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

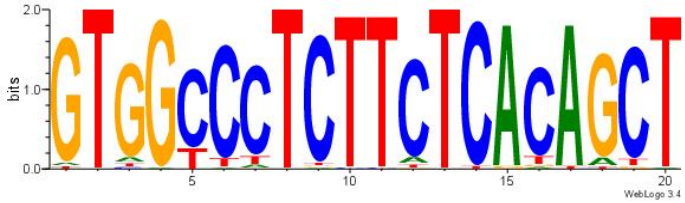

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.127738

Alignment:
ACTCAGCCCRCCTGCACCC
GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

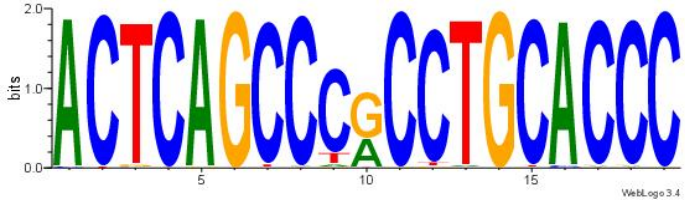

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

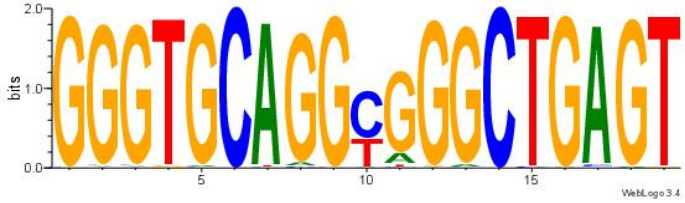

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.130089

Alignment:
GTAGACKGGAGCTGTTCCT
GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

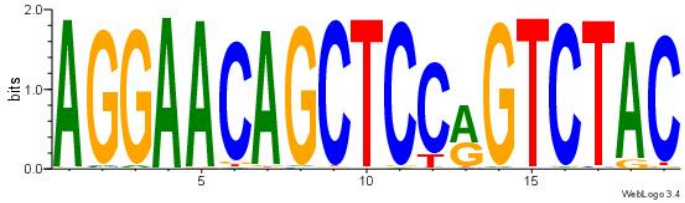

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

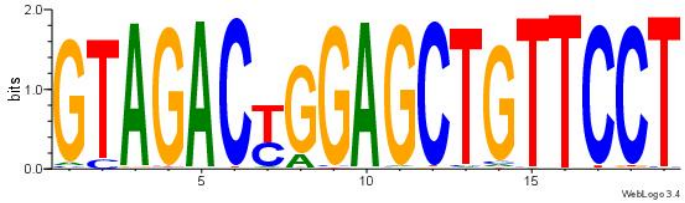

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130201

Alignment:

```
AGCCCCGGTTCCCGCYCGC
GGTGGGGGGGTCAGCCCCC
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

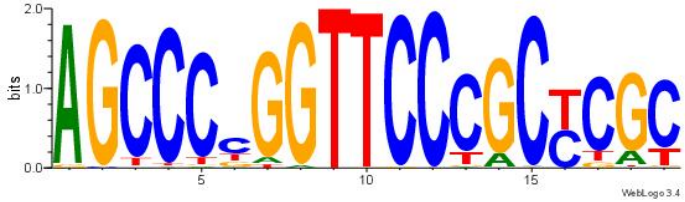

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

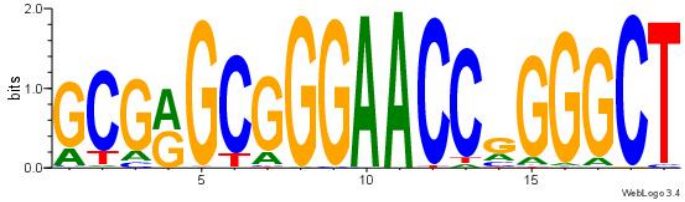

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.130898

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

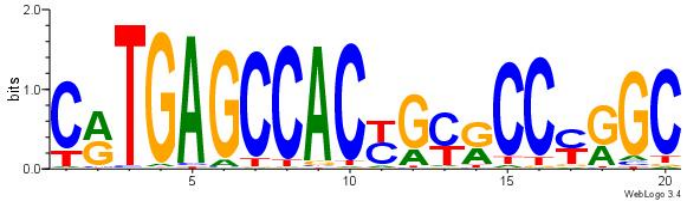

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

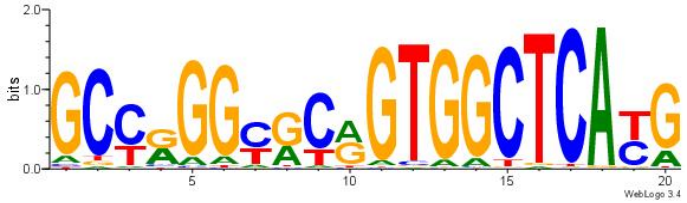

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.131183

Alignment:
GTGTCKGGAGTTTGTTCCTT
GGTGGGGGGGTCAGCCCCC-

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

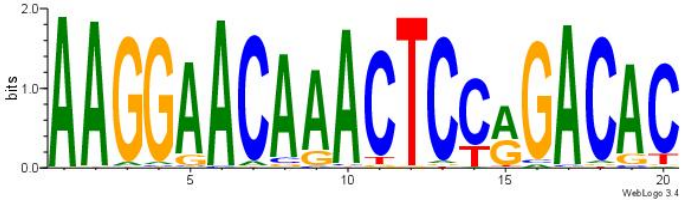

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

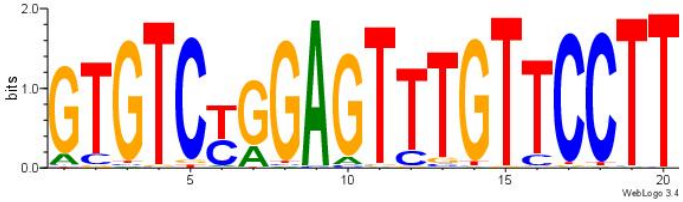

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.132606

Alignment:
GCTGGCCCGCAAGCGCCGCG
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

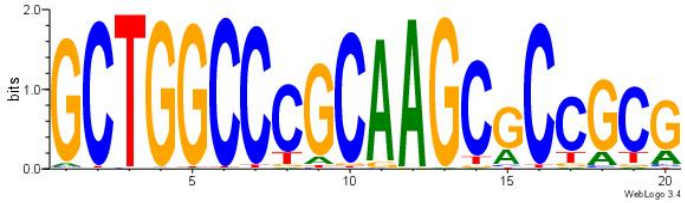

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

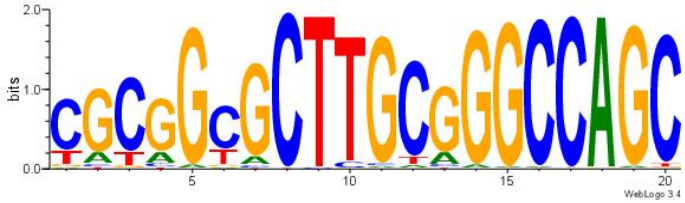

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132627

Alignment:

```
TCKMGCCACTGCACTCCAGC
GGGGGCTGACCCCCCCACC-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

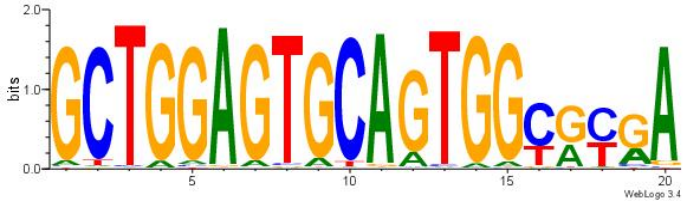

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

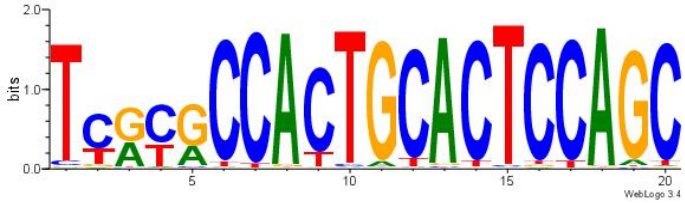

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132915

Alignment:

```
ATTGGTGTATTTACAATCCC
GGTGGGGGGGTCAGCCCCC-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

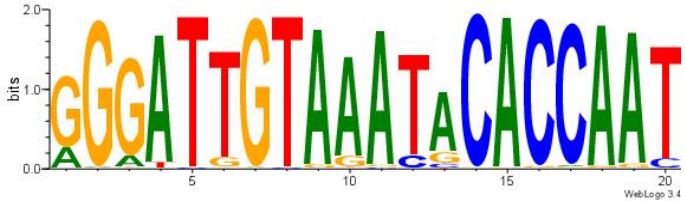

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.133293

Alignment:
CTTGGGTGGTCGATGGGAC
GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

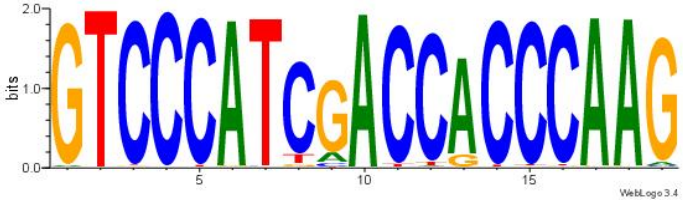

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

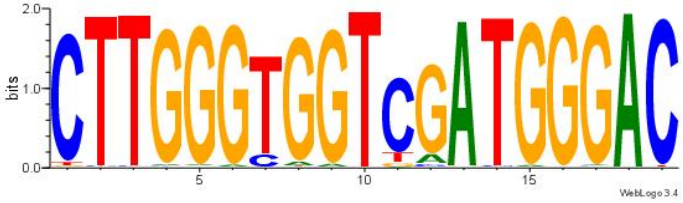

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.133363

Alignment:
AGCTCCCAGCGTGAGCGACG
GGTGGGGGGGTCAGCCCCC-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

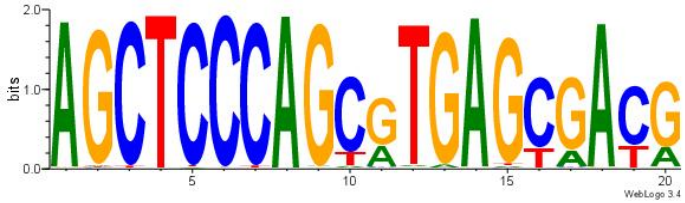

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

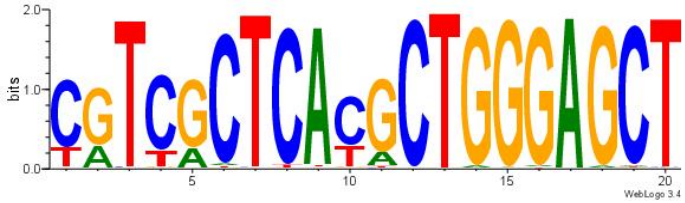

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.134173

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
GGGGGCTGACCCCCCCACC-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

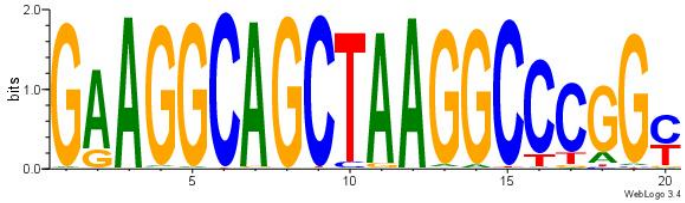

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

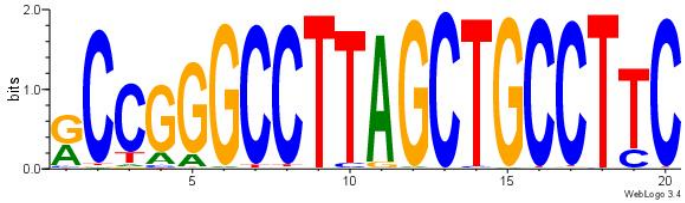

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.134561

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-GGTGGGGGGGTCAGCCCCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

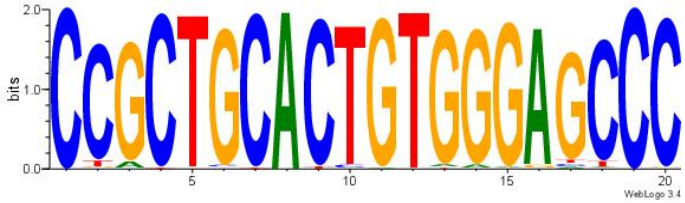

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

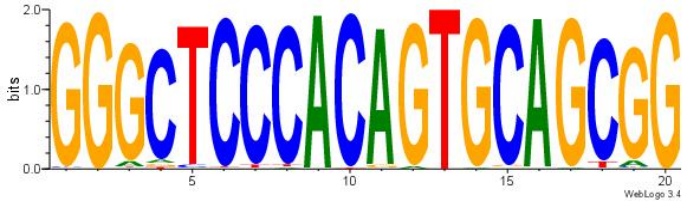

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.135955

Alignment:
GGCACTGCTGGGGGACCCAG
GGTGGGGGGGTCAGCCCCC-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

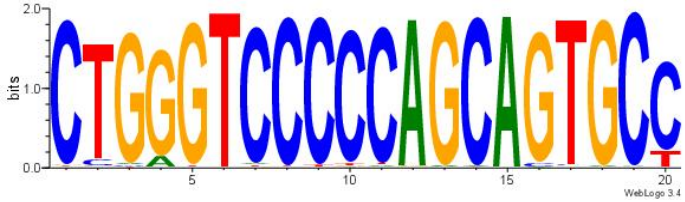

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

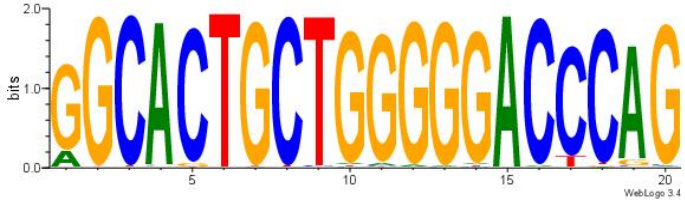

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.13604

Alignment:
GCCTCTCCCTCCACACCTCC
-GGGGGCTGACCCCCCCACC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

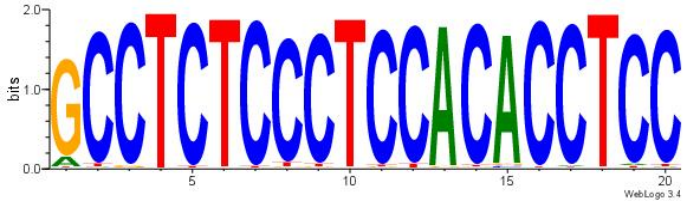

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

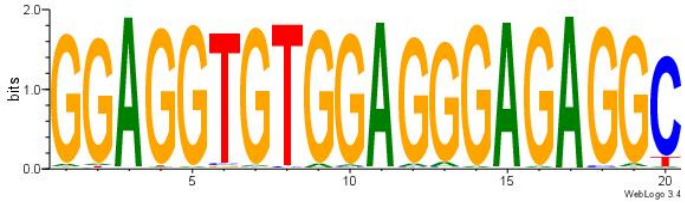

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136411

Alignment:

```
MTCCTCCAGACCCCAGAATG
-GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

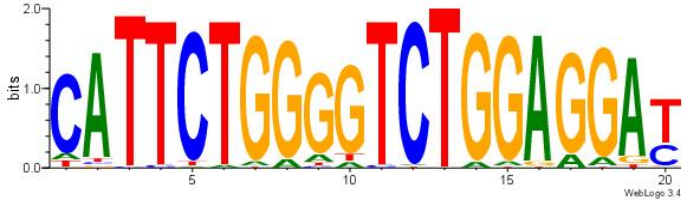

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

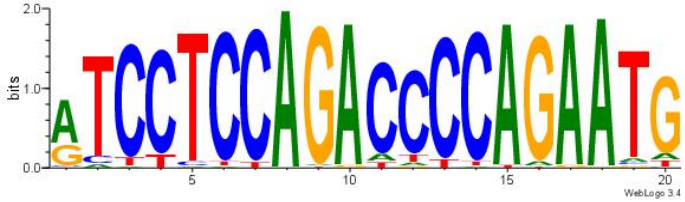

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138018

Alignment:
AGGAGRCMCTCTGCCTGGC
GGGGGCTGACCCCCCCACC

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

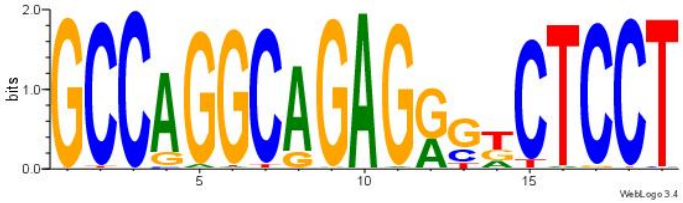

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

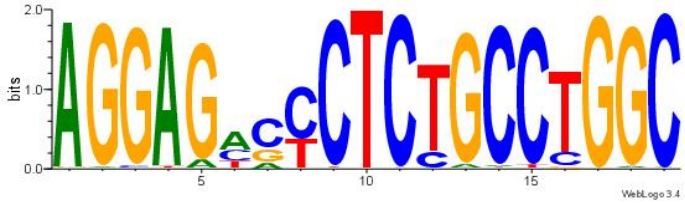

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.139538

Alignment:
GCGCTCKTCGGGGAGGCTCG
-GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

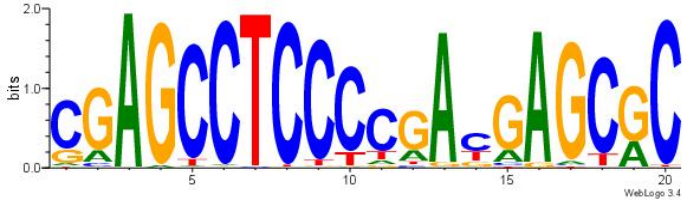

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

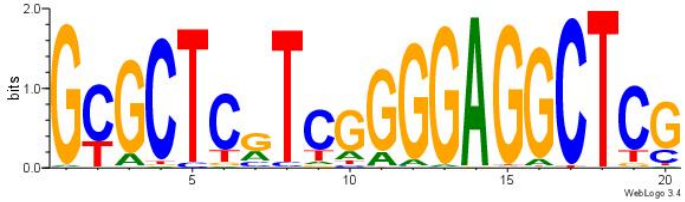

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140002

Alignment:
CCCMKGGCACCCTCAGTCCT
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

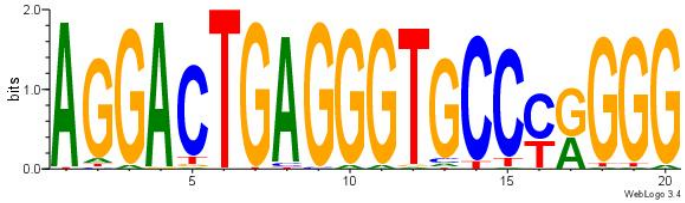

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

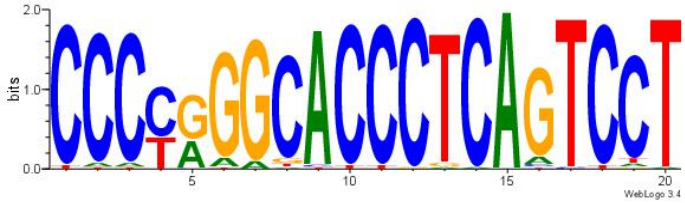

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140115

Alignment:

```
MGGGATATAATCTCCTGGTG
GGGGGCTGACCCCCCCACC-
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

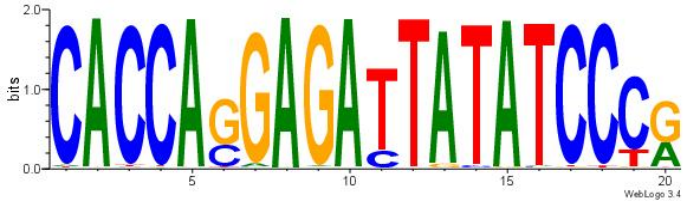

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

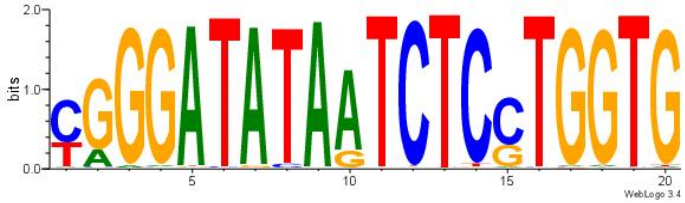

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.141271

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-GGTGGGGGGGTCAGCCCCC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

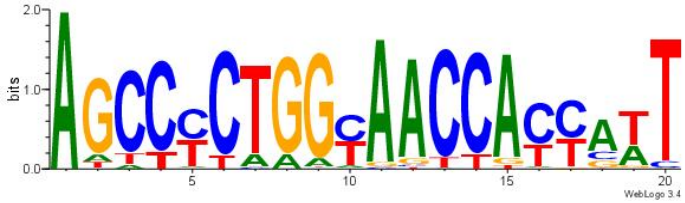

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

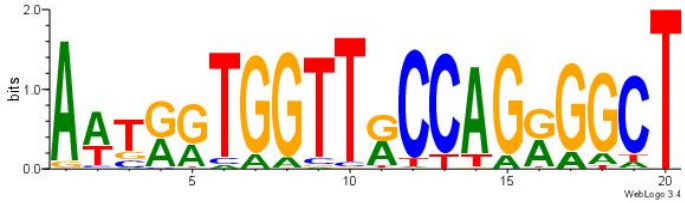

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.143336

Alignment:
CTCAGTGTTAATCTCCTGTC
-GGGGGCTGACCCCCCCACC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

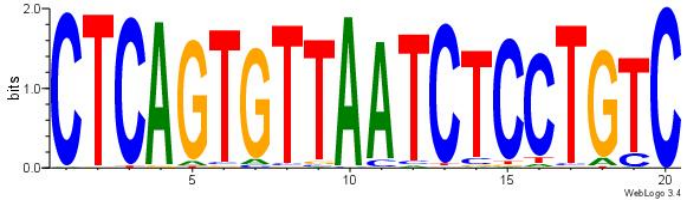

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

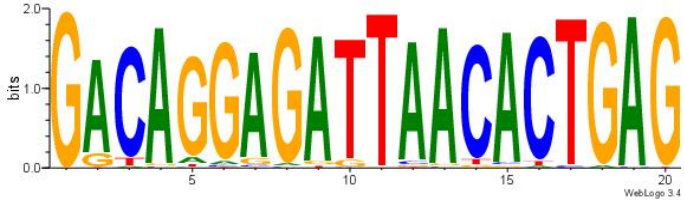

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.144025

Alignment:
ATGATCCAGCAATYCCACTH
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

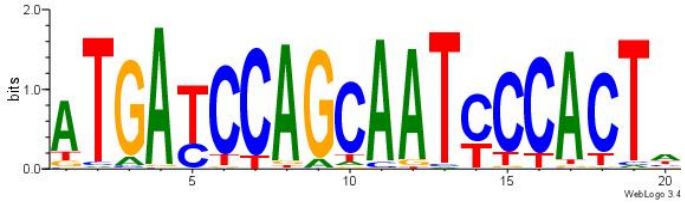

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

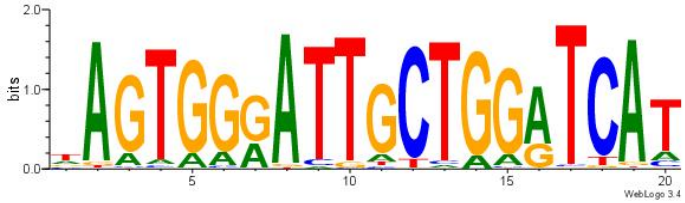

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144671

Alignment:

```
AGGASCSTCYSWGCCMGGY
GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

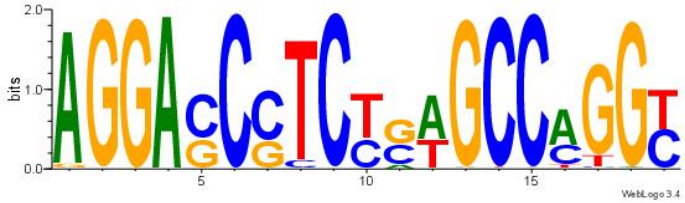

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

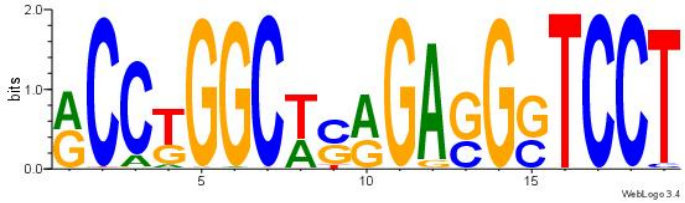

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.144677

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

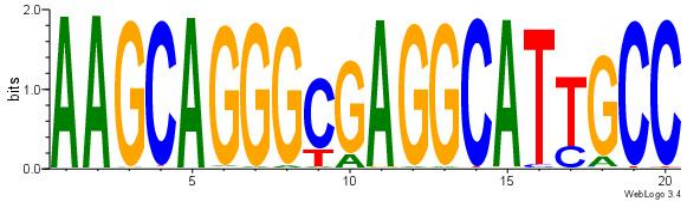

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

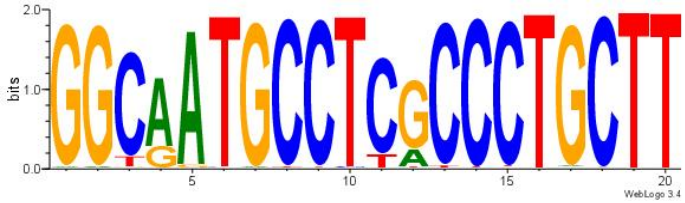

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.144942

Alignment:
AGTGACCCGATTTTCCAGGT
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

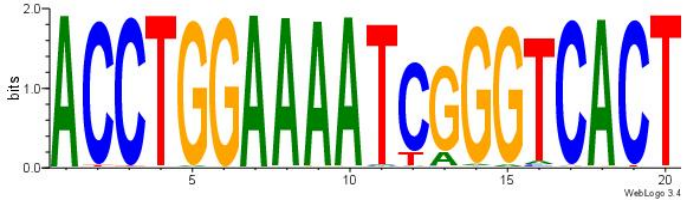

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

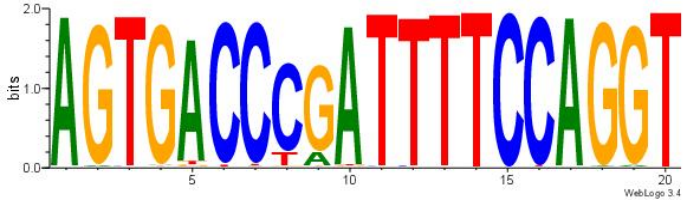

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.146607

Alignment:
AAGTTCTKGGKTACATGTGC
-GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

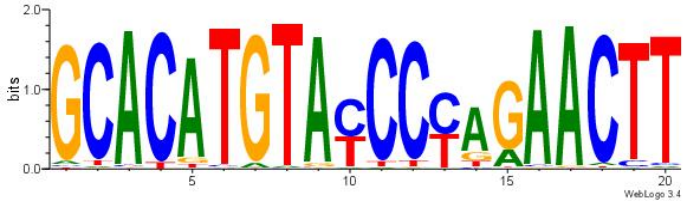

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

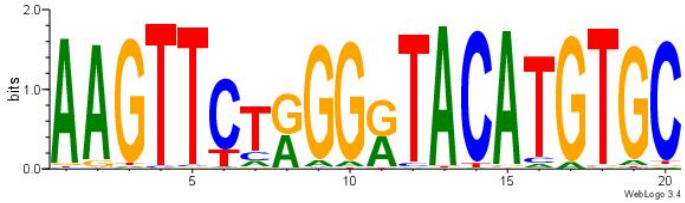

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.14755

Alignment:

```
GCCACCAMGCCMKGCTAAT
GGGGGCTGACCCCCCCACC
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

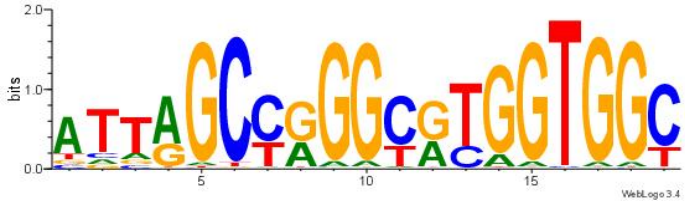

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

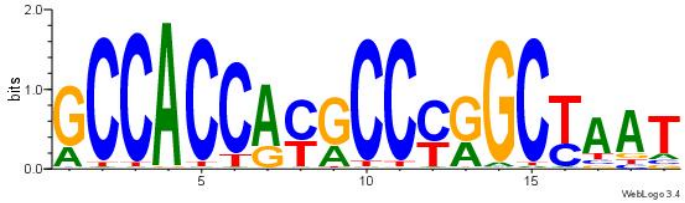

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.14781

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGTGGGGGGGTCAGCCCCC-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

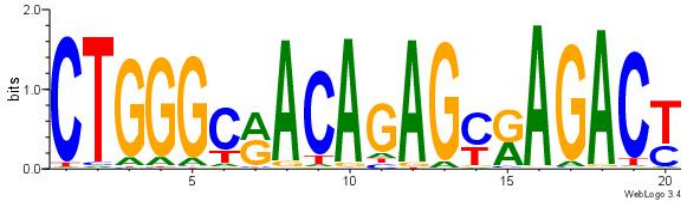

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

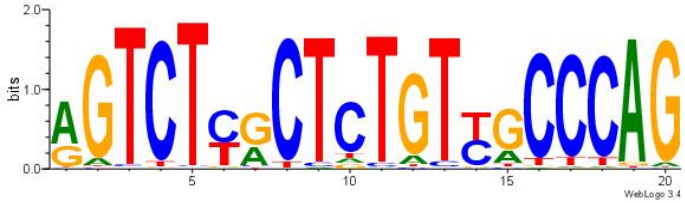

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.147821

Alignment:
GCTGGCCCKGGTGCTAAGC
GGGGGCTGACCCCCCCACC

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

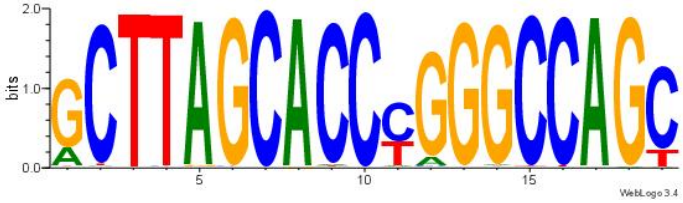

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

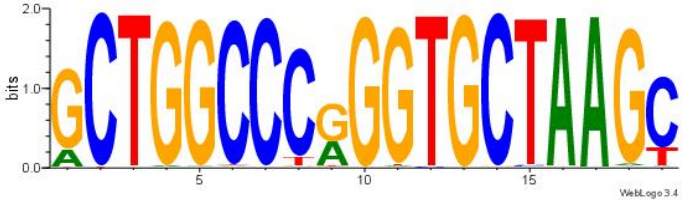

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.147872

Alignment:
TGTGTGTGTGTKTGTGTGT
GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: ACACACAYACACACACACA

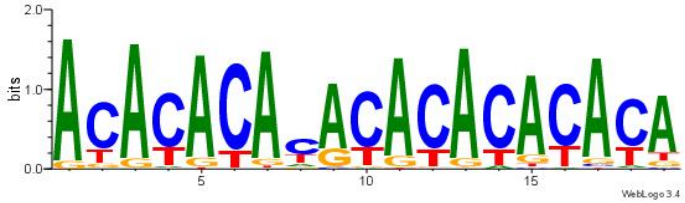

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

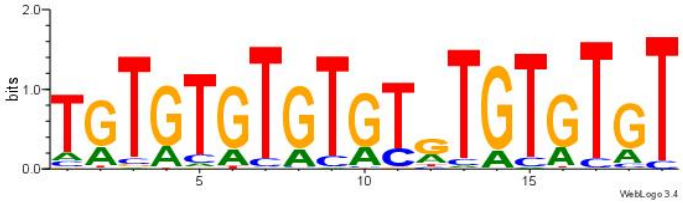

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.147898

Alignment:

```
GTTGTGAGGATTAAATGAG
GGTGGGGGGGTCAGCCCCC
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

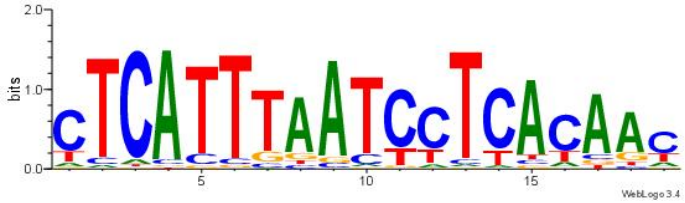

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

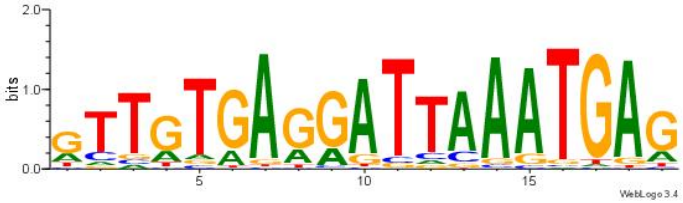

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.148104

Alignment:
ARCTCCTGKSCTCAAGKGAT
-GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

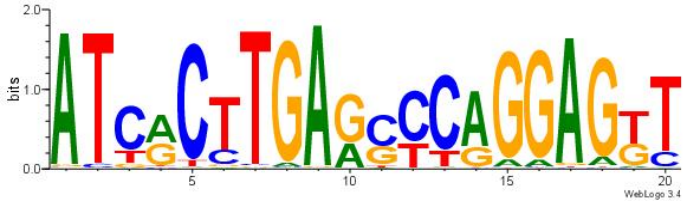

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

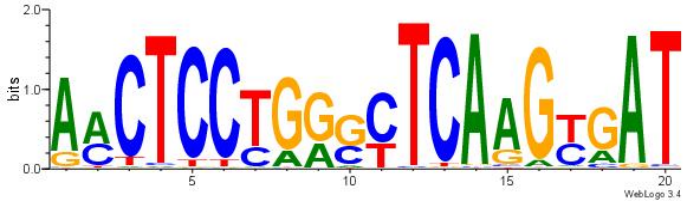

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.148267

Alignment:
GCTGTGTGACCTTGGGCAAG
GGTGGGGGGGTCAGCCCCC-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

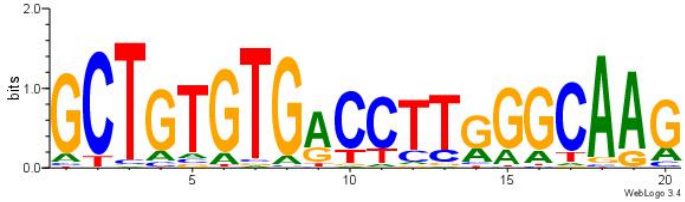

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

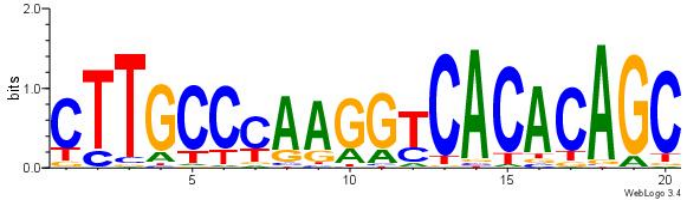

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.148438

Alignment:
TTGGTAGGATCCGTGATGCC
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

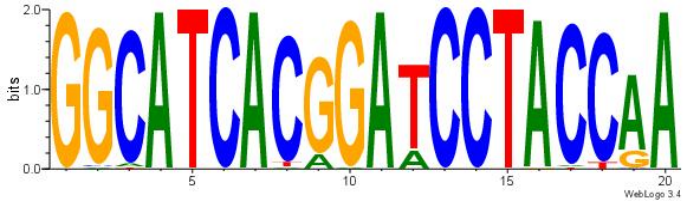

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

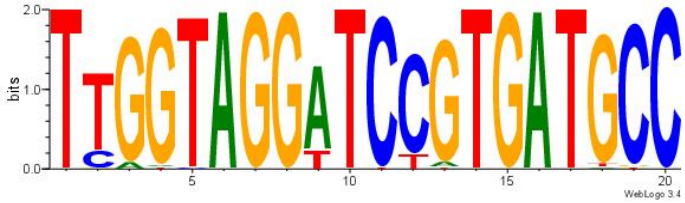

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148791

Alignment:

```
GTTTAACCATTGAGGGCCAG
GGTGGGGGGGTCAGCCCCC-
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

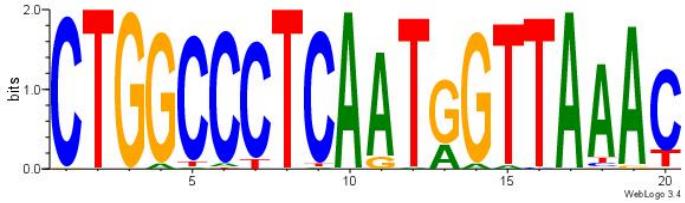

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

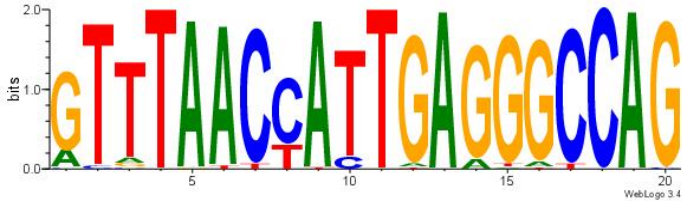

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148849

Alignment:
TGHCCTGCKCCCACTGTCT
GGGGGCTGACCCCCCCACC

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

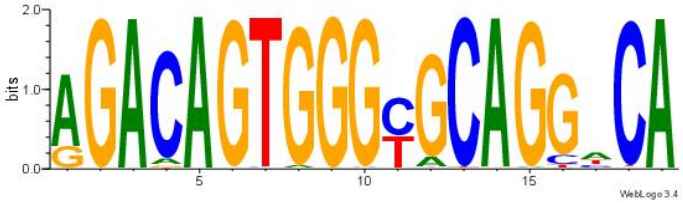

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

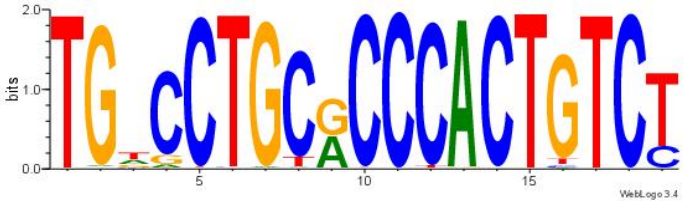

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.149124

Alignment:
AGAGCTCTGGCTGGCATCT
GGTGGGGGGGTCAGCCCCC

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

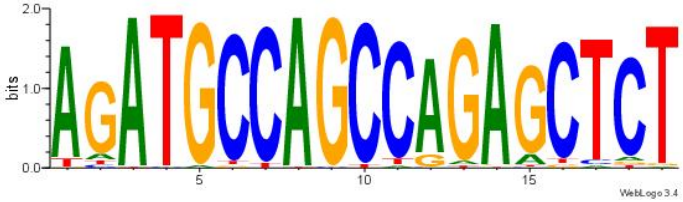

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

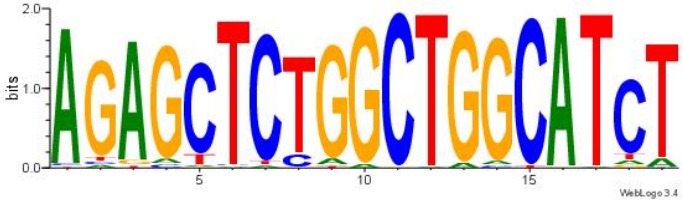

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.15066

Alignment:
TCTCTCTCTCTCTCTCTCTC
GGGGGCTGACCCCCCCACC-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

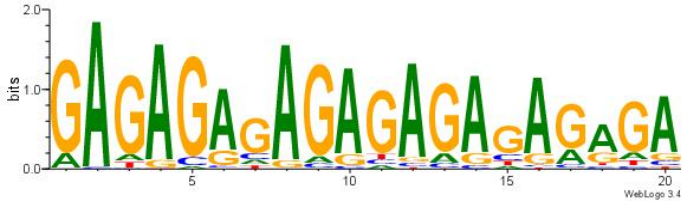

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

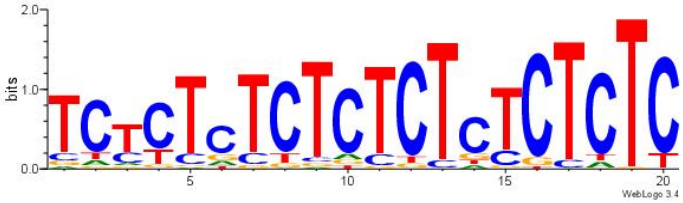

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.15186

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GGTGGGGGGGTCAGCCCCC-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

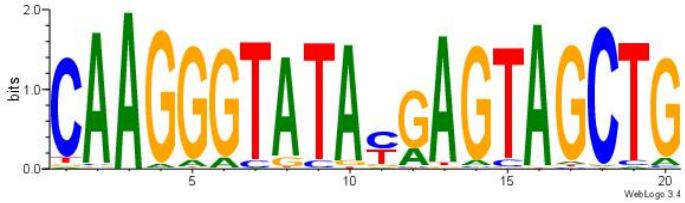

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

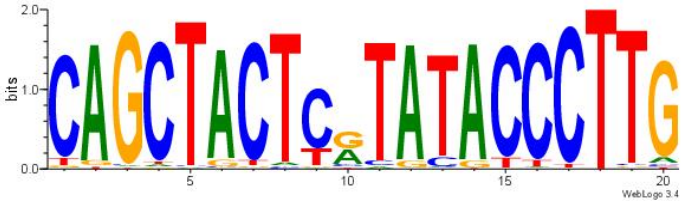

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.152591

Alignment:

```
CAGGTGGTKTTTGGTTACAT
GGTGGGGGGGTCAGCCCCC-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

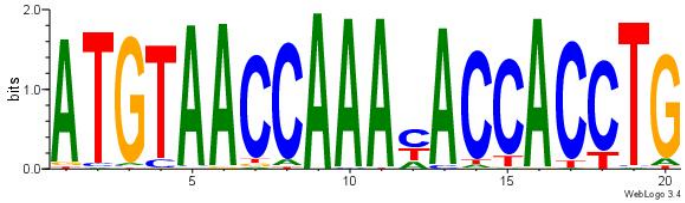

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

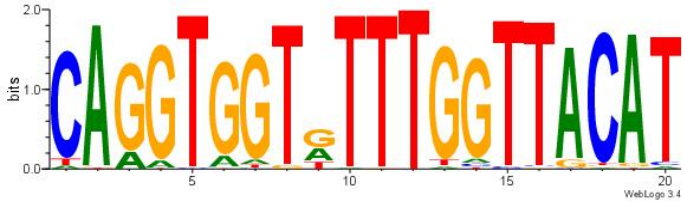

Dataset #: 1 Motif ID: 93 Motif name: Motif 93

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Best Matches for Motif ID 93 (Highest to Lowest)

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0496914

Alignment:

```
CMGCTCCGAGTGCGG
-----CCATGTGCGG
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

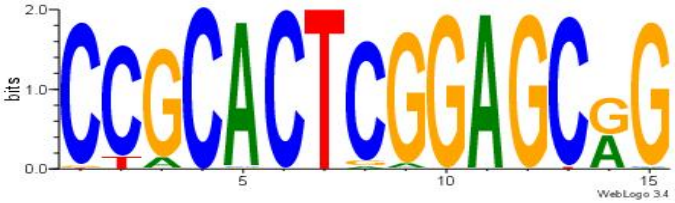

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

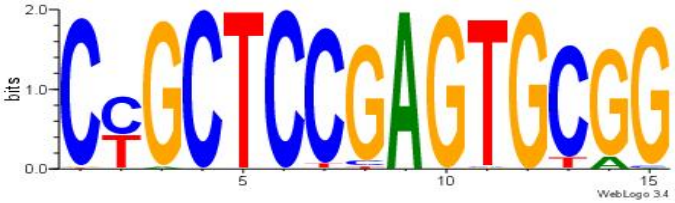

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0540497

Alignment:

```
GTACCTCAGWTGGAAATG
---CCGCACATGG-----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

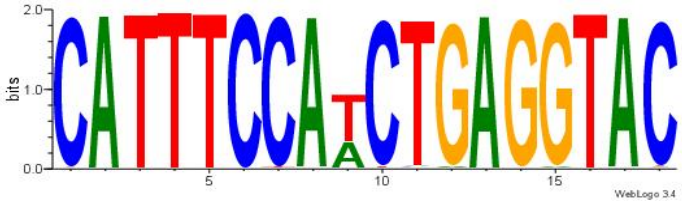

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

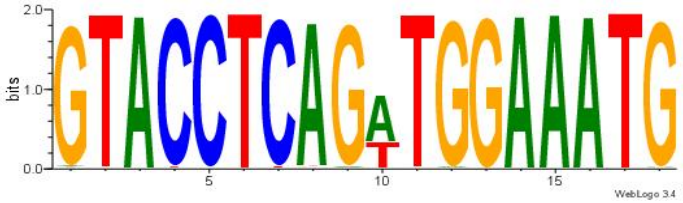

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 10
Similarity score: 0.0552113

Alignment:
CCATGTGSTCCC
CCATGTGCGG--

Original motif Consensus sequence: CCATGTGSTCCC

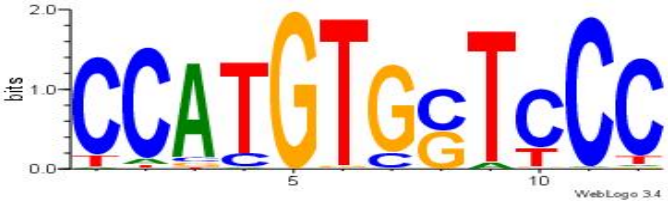

Reverse complement motif Consensus sequence: GGGASCACATGG

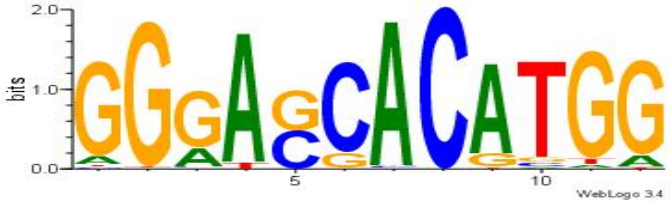

Dataset #: 1
Motif ID: 324
Motif name: Motif 324
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0568222

Alignment:
TACAGGTGCGT
-CCATGTGCGG

Original motif Consensus sequence: ACGCACCTGTA

Reverse complement motif Consensus sequence: TACAGGTGCGT

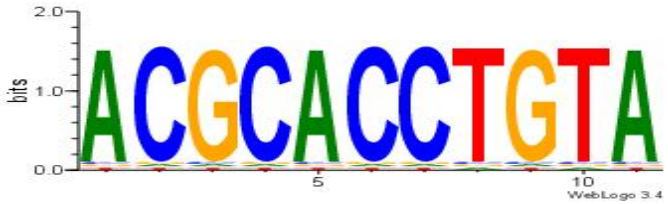

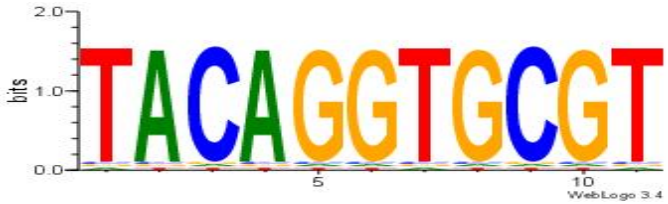

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0665322

Alignment:

```
GAGAACACATGGACA
--CCGCACATGG---
```

Original motif Consensus sequence: GAGAACACATGGACA

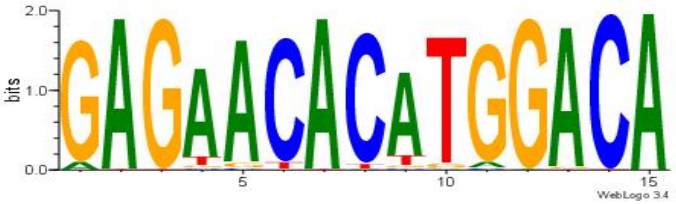

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

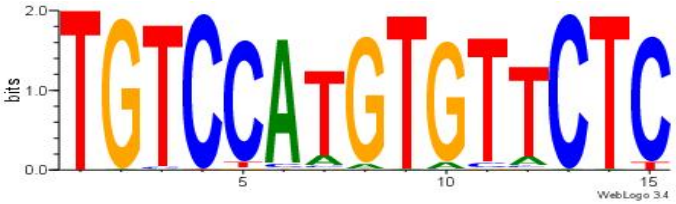

Dataset #:	1
Motif ID:	167

Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0678672

Alignment:

```
CCGCTCCTGTGC
CCGCACATGG--
```

Original motif Consensus sequence: CCGCTCCTGTGC

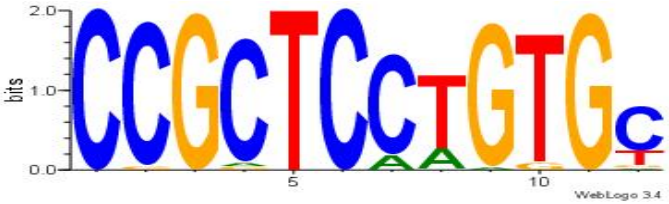

Reverse complement motif Consensus sequence: GCACAGGAGCGG

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0699844

Alignment:
CAAGCGCCAGCTCATGTC
-------CCGCACATGG-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

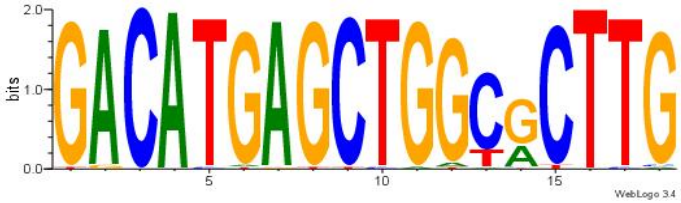

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

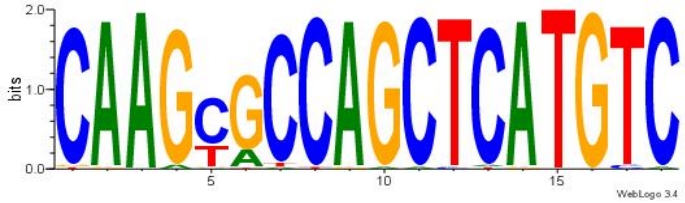

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0709488

Alignment:
CCGTGCGCGAGCCG
CCATGTGCGG----

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

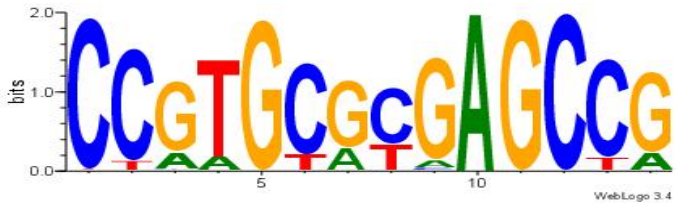

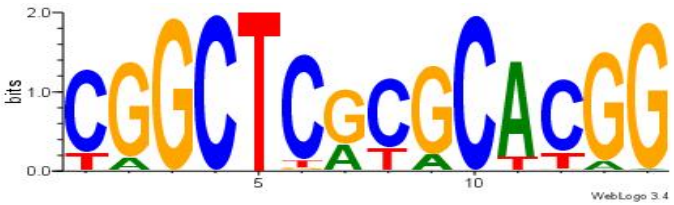

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0720831

Alignment:

```
ACGCCCACGGAGTCTC
------CCGCACATGG
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

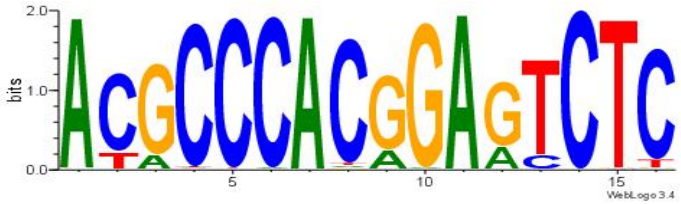

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

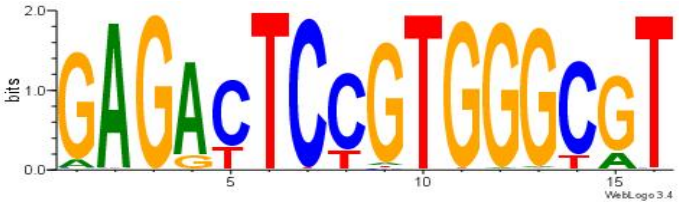

Dataset #: 1

Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0741793

Alignment:

```
GCTCCWGTGYGKCC
--CCATGTGCGG--
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

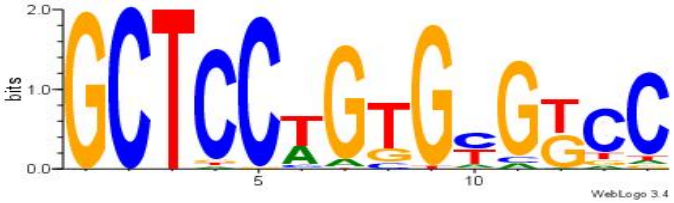

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0759162

Alignment:
TCCCTCCCGGACGGGGYGGC
------CCGCACATGG----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

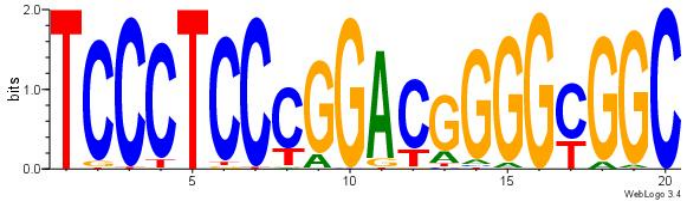

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

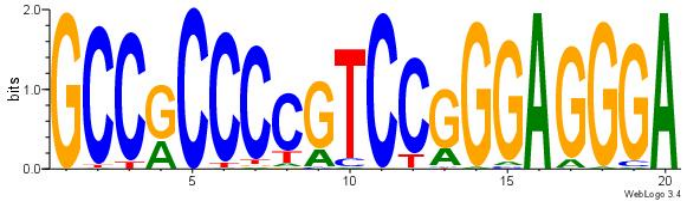

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0766926

Alignment:
GCTGGCCCKGGTGCTAAGC
---CCATGTGCGG------

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

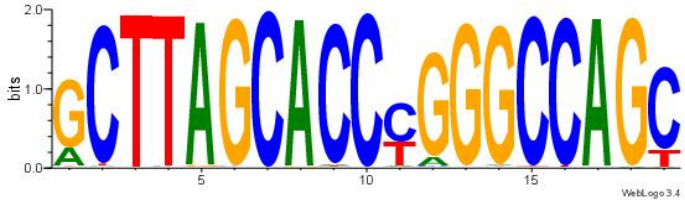

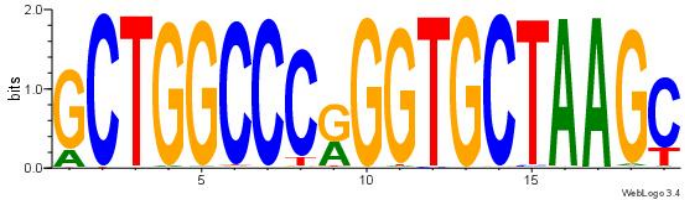

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0774041

Alignment:

```
CCACCACAGCTCAAGGAGGC
------CCGCACATGG----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

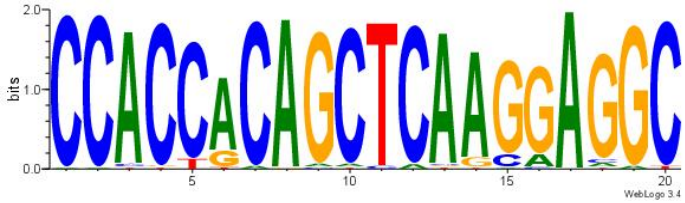

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

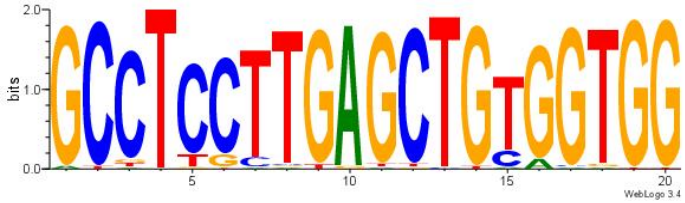

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0793886

Alignment:

```
AGTTCCGGGTGGGCGTGGG
----CCATGTGCGG-----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

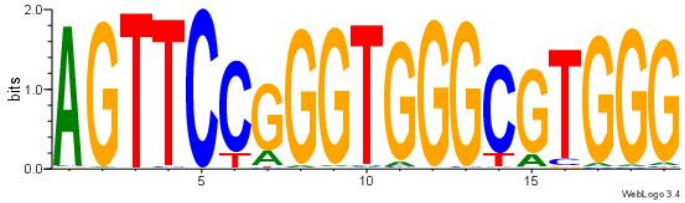

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

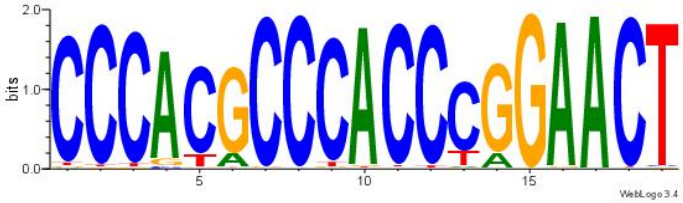

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0793886

Alignment:
TCAATGGGCTCCCAAATG
-CCATGTGCGG-------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

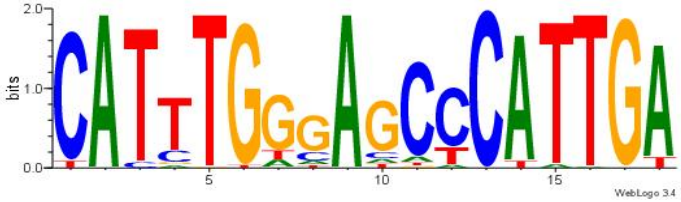

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

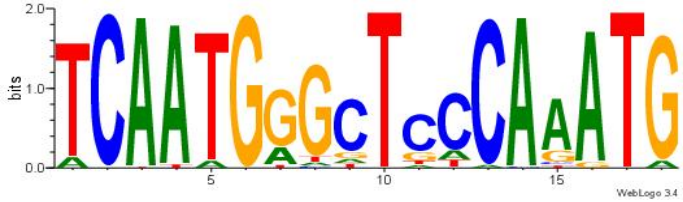

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0814289

Alignment:
GCTCTCAATTGGTCATT
--CCGCACATGG-----

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

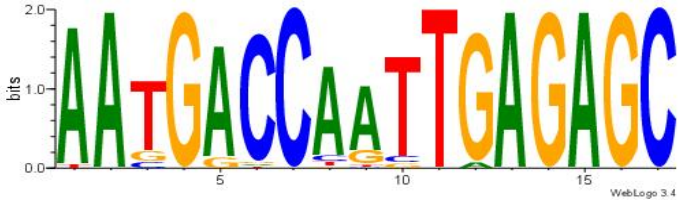

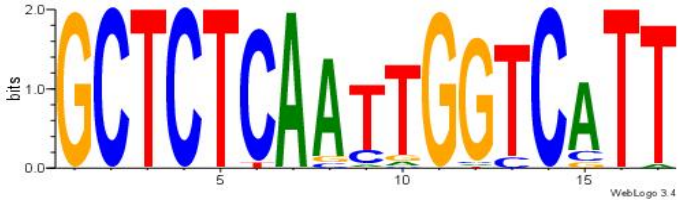

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0824173

Alignment:

```
CCTCCGTGGGCTCC
---CCATGTGCGG-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

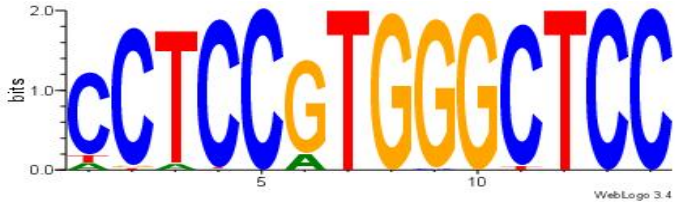

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

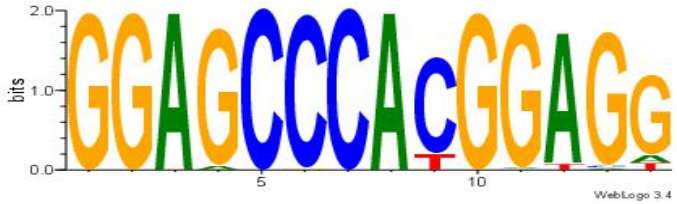

Dataset #:	1
Motif ID:	56

Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0825419

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
---------CCATGTGCGG-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

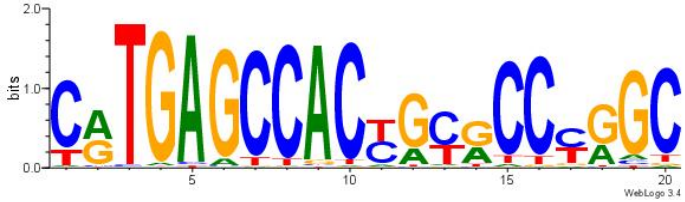

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

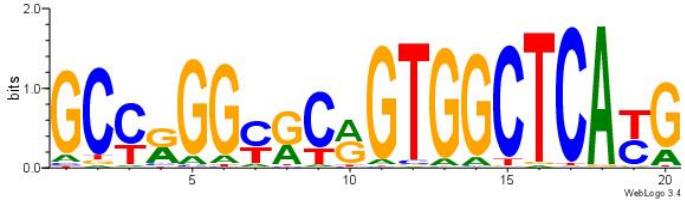

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0826519

Alignment:
ACCCYGTCTGGGAGGTG
-CCATGTGCGG------

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

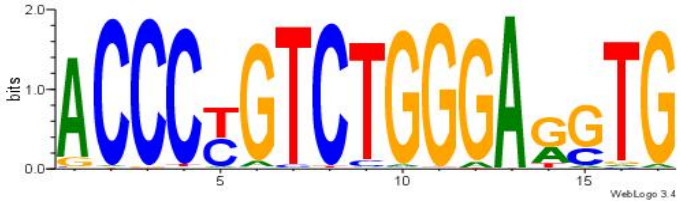

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

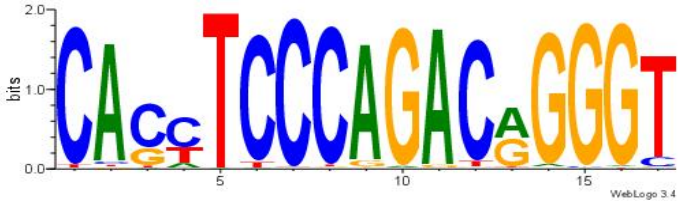

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.082958

Alignment:
ACTCCCTAGTGAGATGAACC
------CCATGTGCGG----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

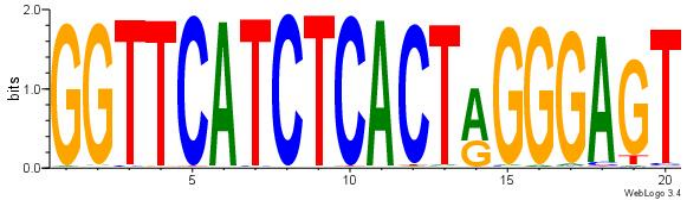

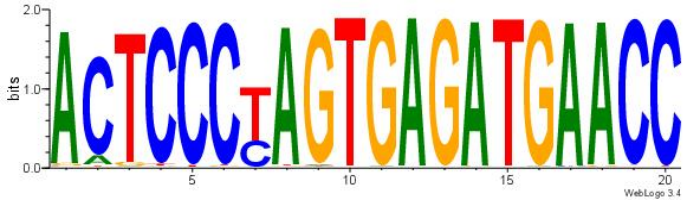

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0839188

Alignment:

```
GGATTTMKGACTTGCATGGG
---------CCGCACATGG-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

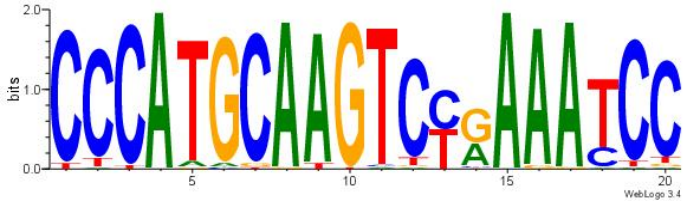

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

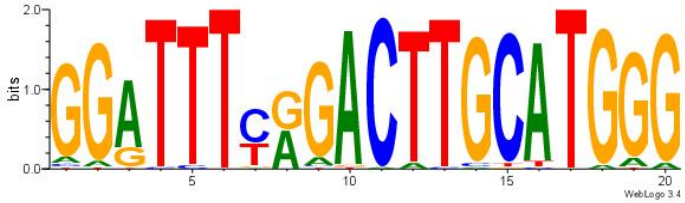

Dataset #: 1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0843166

Alignment:

```
ATGGCCTATGACYGSTTTG
-----CCATGTGCGG----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

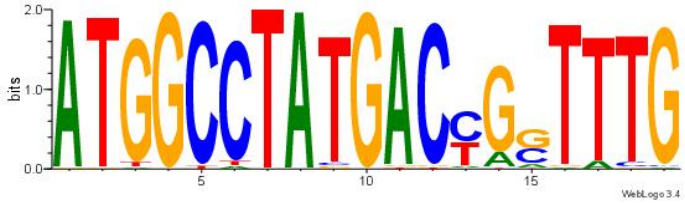

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

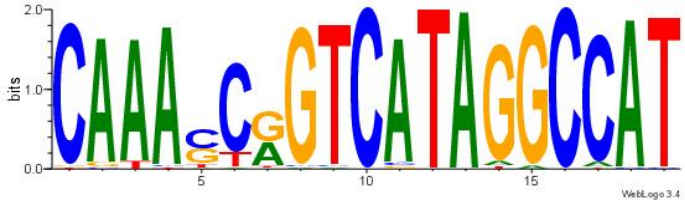

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.0851844

Alignment:
GCCACCAMGCCMKGCTAAT
-----CCATGTGCGG----

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

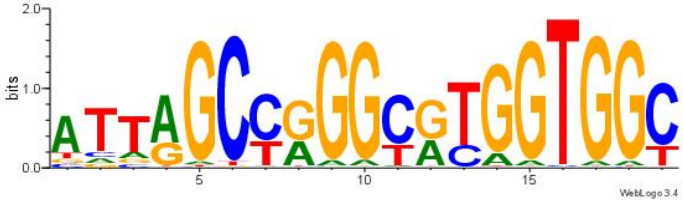

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

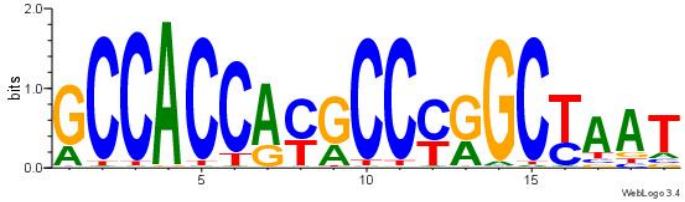

Dataset #: 1
Motif ID: 230
Motif name: Motif 230
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0855702

Alignment:
TTTTCACATGCCTTTCT
-CCGCACATGG------

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence:
TTTTCACATGCCTTTCT

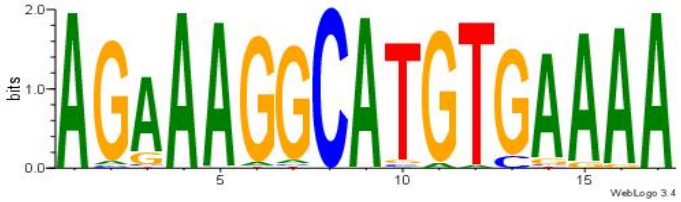

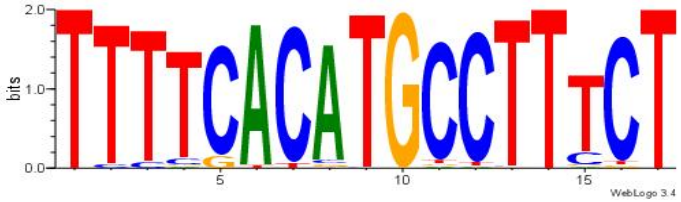

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0855881

Alignment:

```
CCATCTAGGAAGTG
----CCATGTGCGG
```

Original motif Consensus sequence: CACTTCCTAGATGG

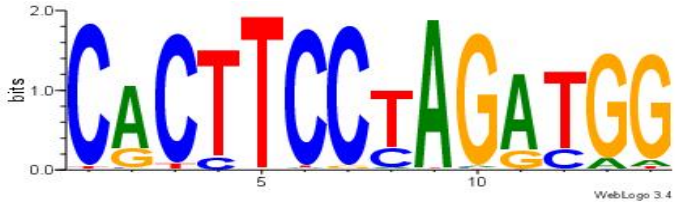

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

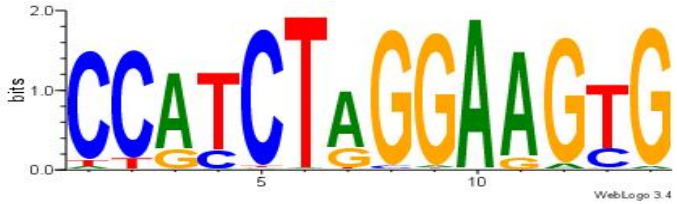

Dataset #:	1
Motif ID:	157

Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.085706

Alignment:

```
GCGCACGGCGCGG
CCGCACATGG---
```

Original motif Consensus sequence: GCGCACGGCGCGG

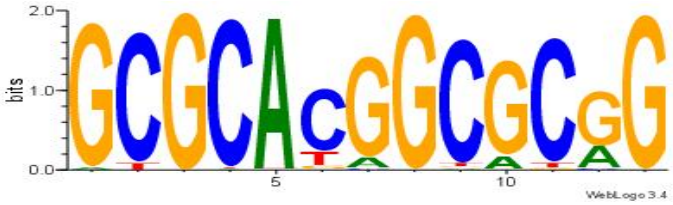

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

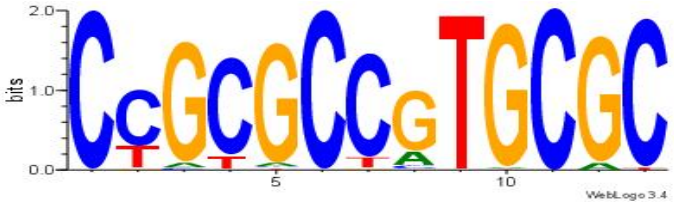

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0862248

Alignment:
HGCTCCTGTGSKCCC
---CCATGTGCGG--

Original motif Consensus sequence: HGCTCCTGTGSKCCC

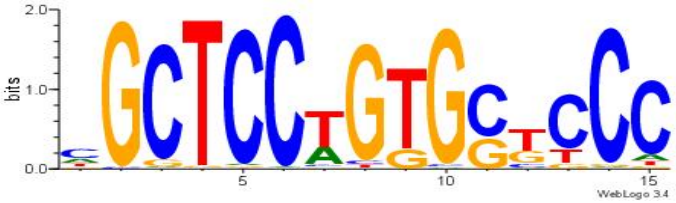

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0863643

Alignment:
GCTTCTGGTGAGGGC
---CCATGTGCGG--

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

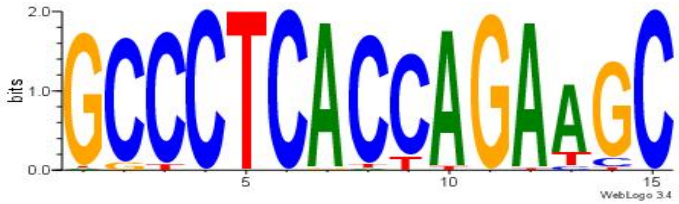

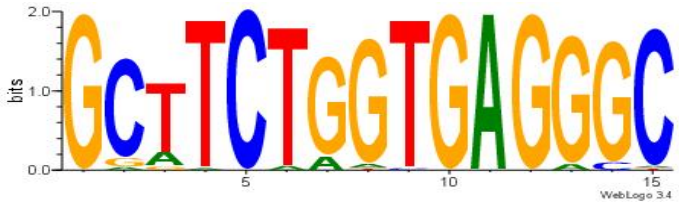

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0865262

Alignment:

```
AGGGCCTTTGCASWTGC
-------CCGCACATGG
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

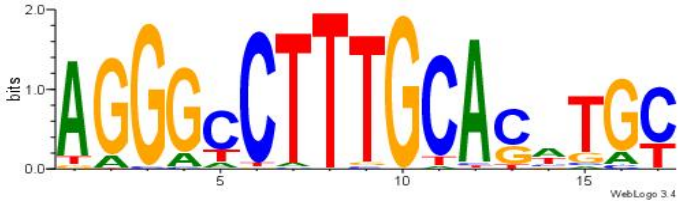

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

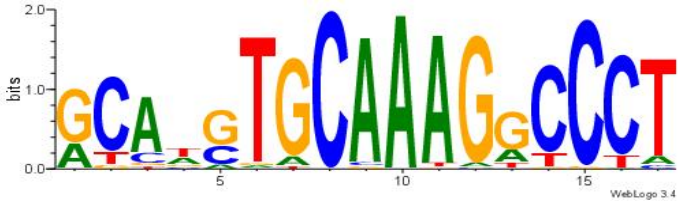

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0866106

Alignment:

```
GCCAATTTCTCCCATTTGGA
---------CCGCACATGG-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

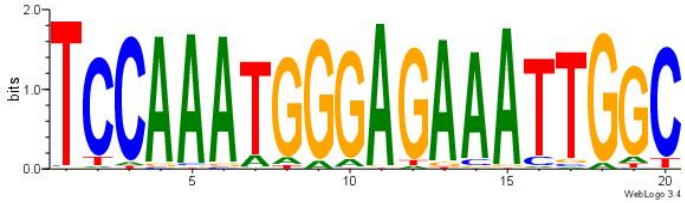

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

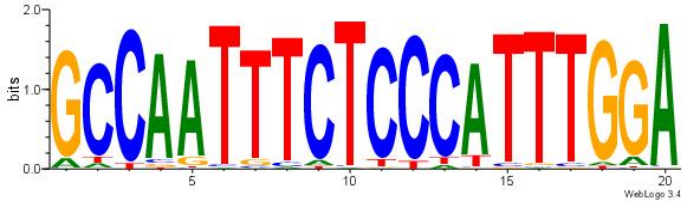

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0873083

Alignment:
CAAGCCTSKGCAATGGCAGG
----------CCATGTGCGG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

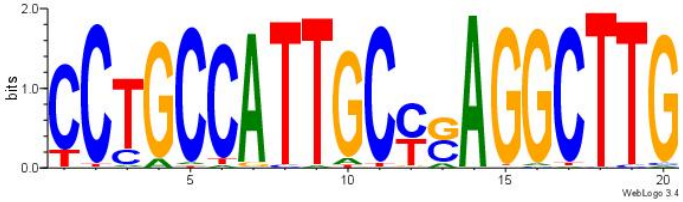

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

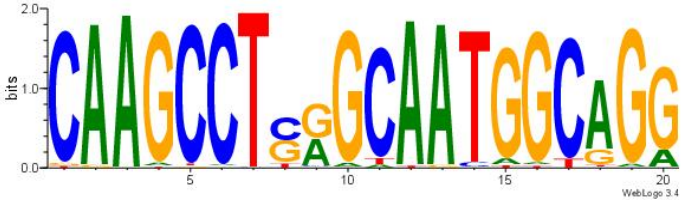

Dataset #: 1
Motif ID: 302
Motif name: Motif 302
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0881612

Alignment:
GCTCTCAGGGTC
CCGCACATGG--

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

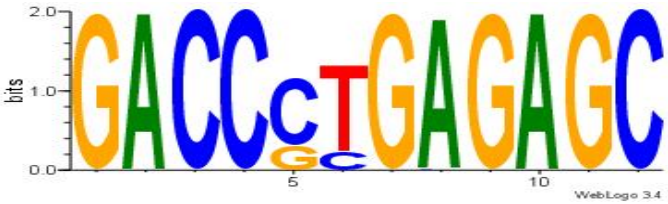

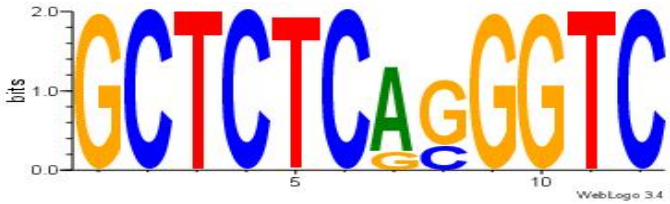

Dataset #:	1
Motif ID:	37
Motif name:	Motif 37
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0883468

Alignment:

```
WGCTCTCAAGG
-CCGCACATGG
```

Original motif Consensus sequence: CCTTGAGAGCW

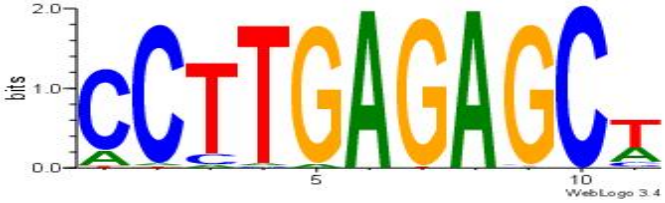

Reverse complement motif Consensus sequence: WGCTCTCAAGG

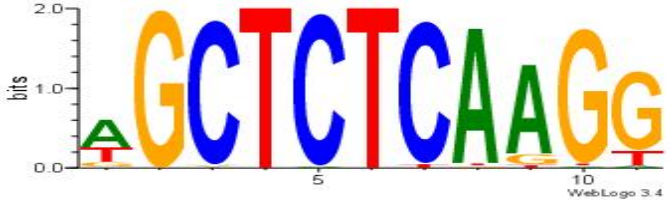

Dataset #:	1
Motif ID:	144

Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.088767

Alignment:

```
GGGCTCCCACAGTGCAGCGG
----CCGCACATGG------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

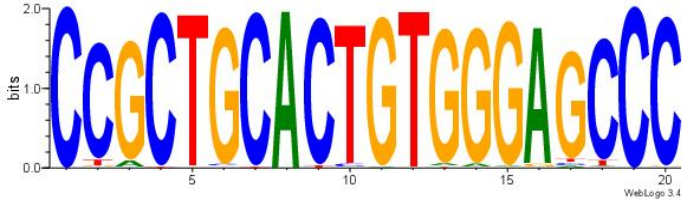

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

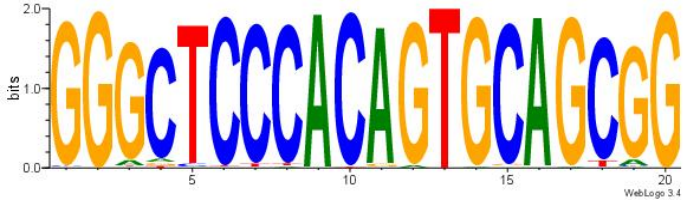

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0888023

Alignment:
CACTTCCCAGACGGGGCG
----CCGCACATGG----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

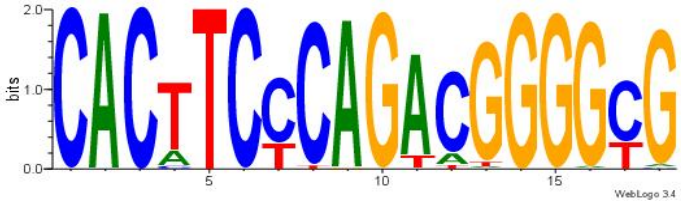

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

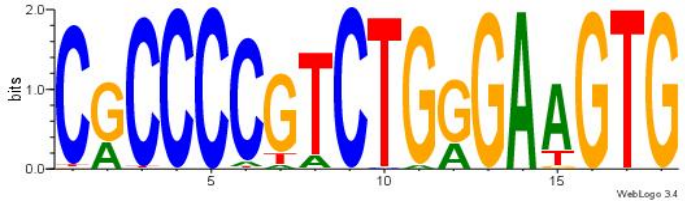

Dataset #:	1
Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0888471

Alignment:
TCCCAGACGGGGT
CCGCACATGG---

Original motif Consensus sequence: ACCCCGTCTGGGA

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

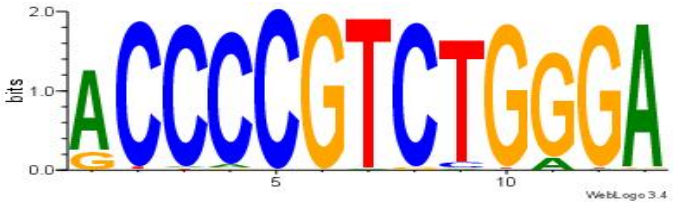

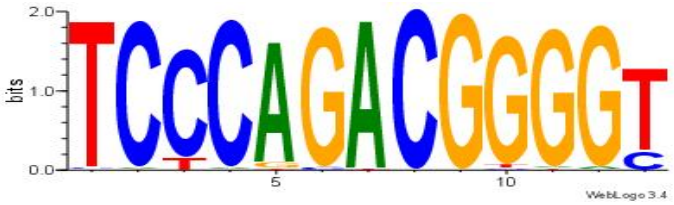

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0889392

Alignment:

```
AACAACASACACTGGGGCCT
------CCGCACATGG----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

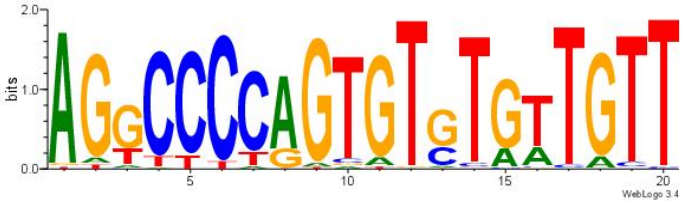

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

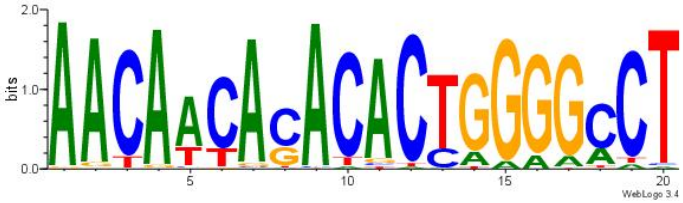

Dataset #: 1

Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0892105

Alignment:

```
CCATGATTGTRAGG
CCATGTGCGG----
```

Original motif Consensus sequence: CCATGATTGTRAGG

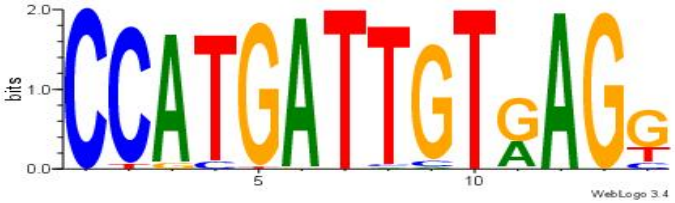

Reverse complement motif Consensus sequence: CCTMACAATCATG

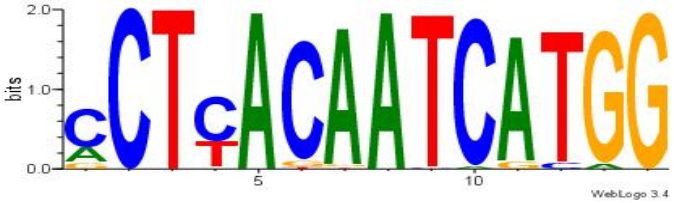

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0894911

Alignment:
CTCCAGKTMCATCCATGTTG
--CCATGTGCGG--------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

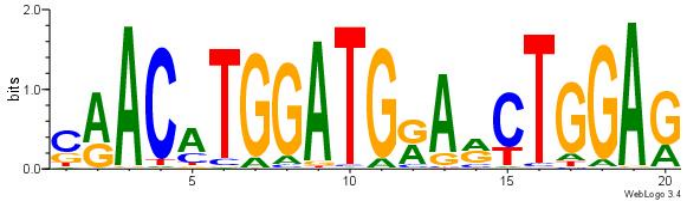

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

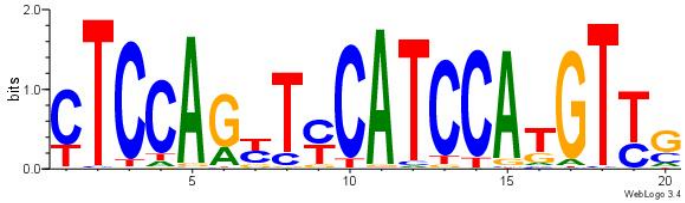

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0895584

Alignment:
CGCGGCGCTTGCGGGCCAGC
--CCGCACATGG--------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

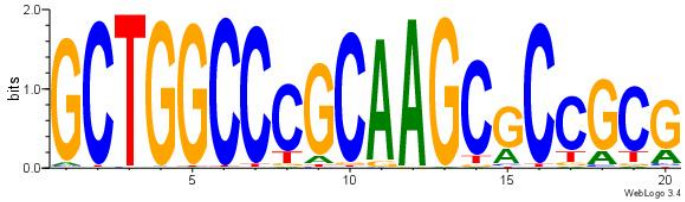

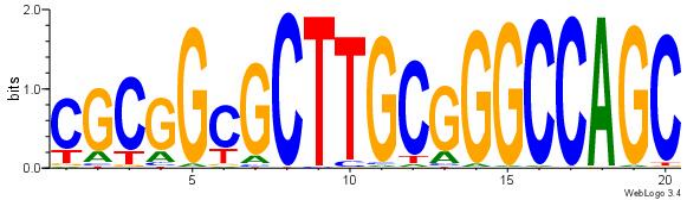

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0895693

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
----------CCATGTGCGG
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

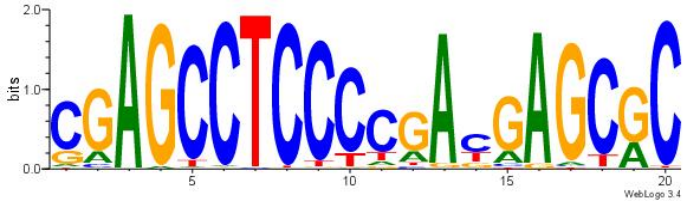

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

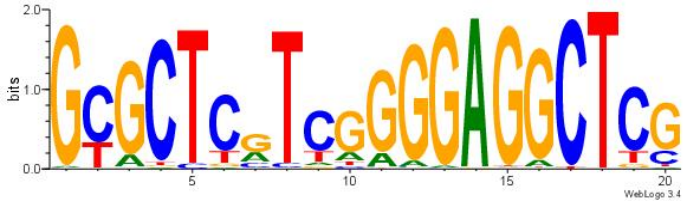

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0895913

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
CCATGTGCGG----------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

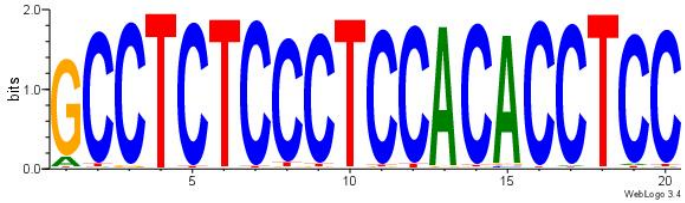

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

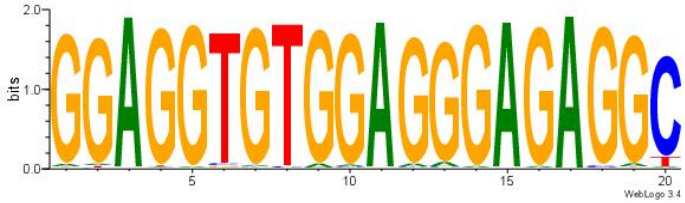

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0898405

Alignment:
TGCTCACACAAAGCCTGT
---CCGCACATGG-----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

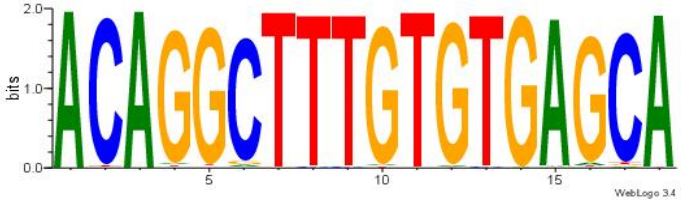

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

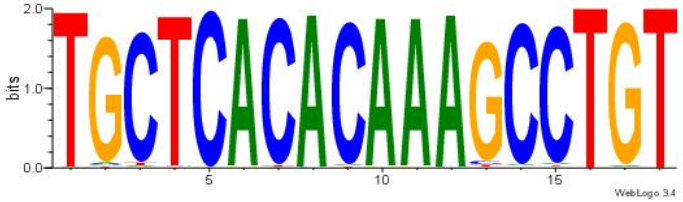

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 10
Similarity score: 0.0898599

Alignment:
ATACAATGGGGGTACAGRC
---CCATGTGCGG------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

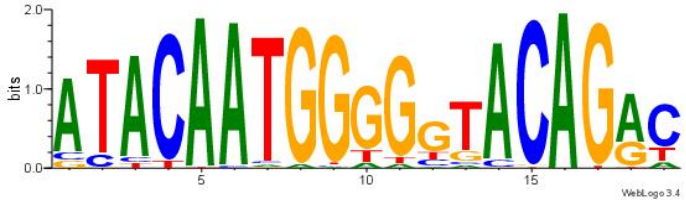

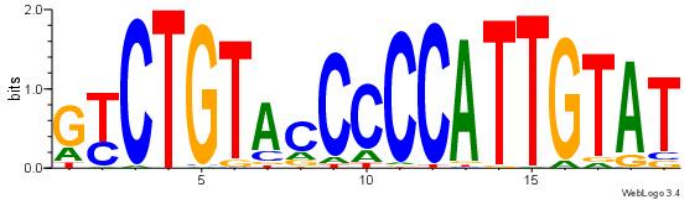

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0900687

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-------CCGCACATGG---
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

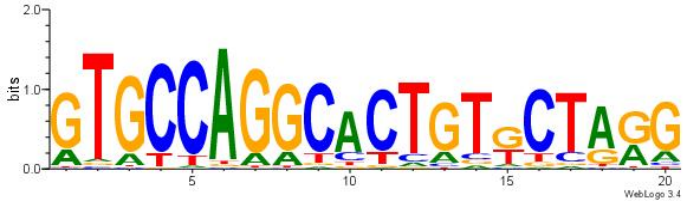

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

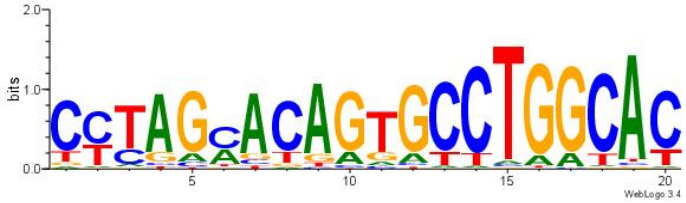

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0910864

Alignment:

```
CCGCGGGGCAGGGCTCG
---CCGCACATGG----
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

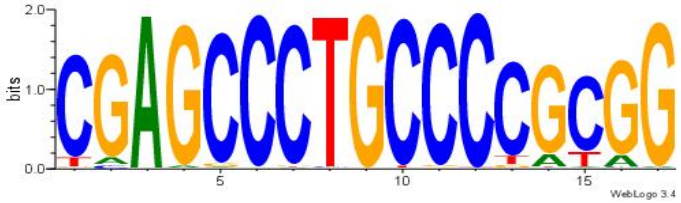

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

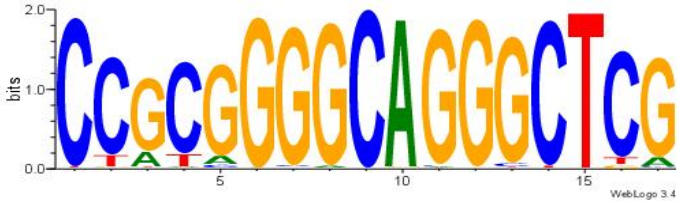

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0917014

Alignment:
TTMGTCCCAGAGGGGCACC
----CCGCACATGG-----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

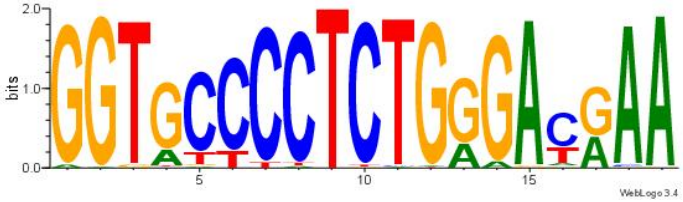

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

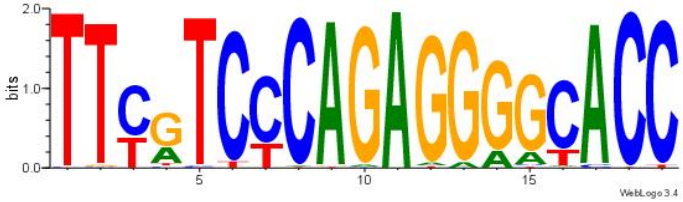

Dataset #: 1
Motif ID: 75
Motif name: Motif 75
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0921505

Alignment:
CATGGAGCGGKK
CCATGTGCGG--

Original motif Consensus sequence: CATGGAGCGGKK

Reverse complement motif Consensus sequence: RRCCGCTCCATG

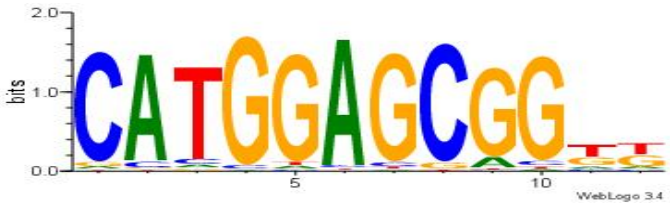

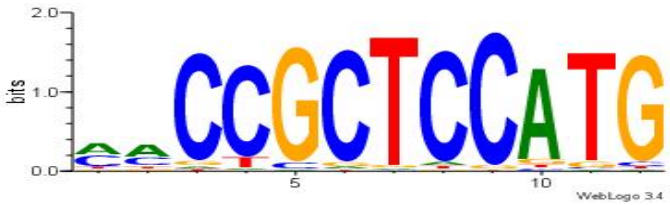

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0928558

Alignment:

```
ACATCCCAGACGATGGGCG
---CCGCACATGG------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

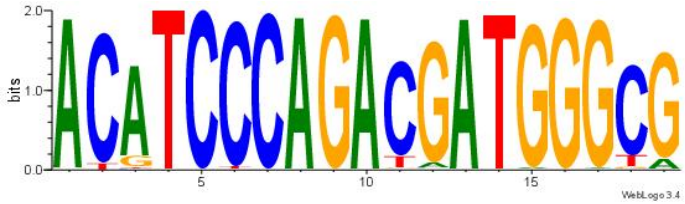

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

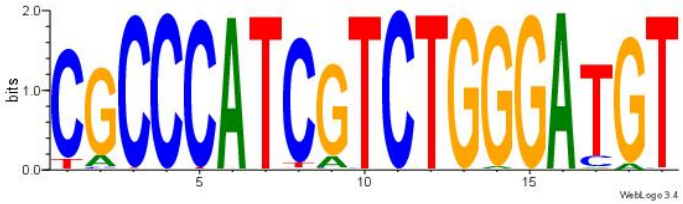

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0931193

Alignment:

```
AGCTCCCAGCGTGAGCGACG
--------CCATGTGCGG--
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

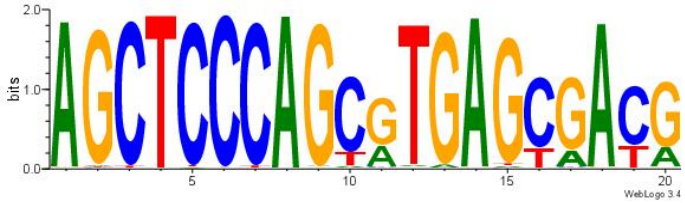

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

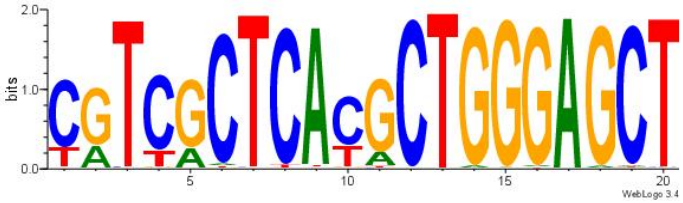

Dataset #: 1 Motif ID: 94 Motif name: Motif 94

Original motif Consensus sequence: TAAGTGGGAGCTAARC

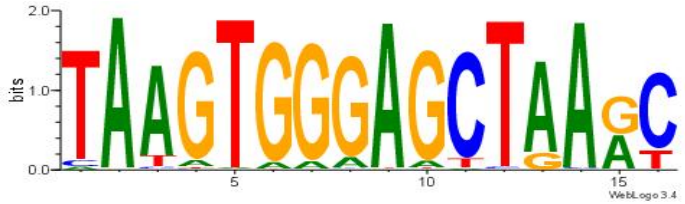

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

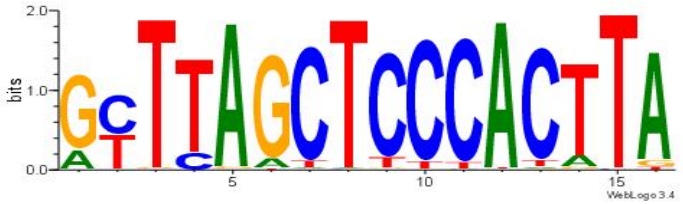

Best Matches for Motif ID 94 (Highest to Lowest)

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.062587

Alignment:

```
TAGATAATAGCTCCAGCTTT
----GMTTAGCTCCCACTTA
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

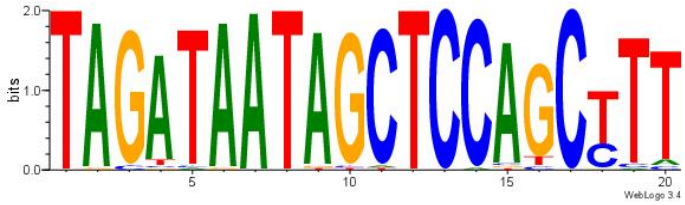

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

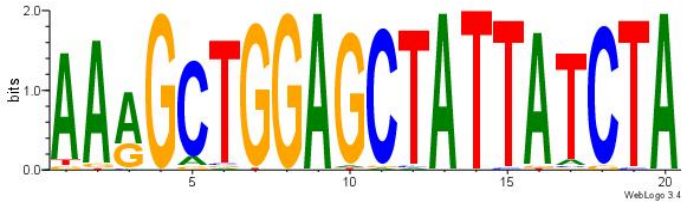

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0700236

Alignment:
GACATGAGCTGGCGCTTG
--GMTTAGCTCCCACTTA

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

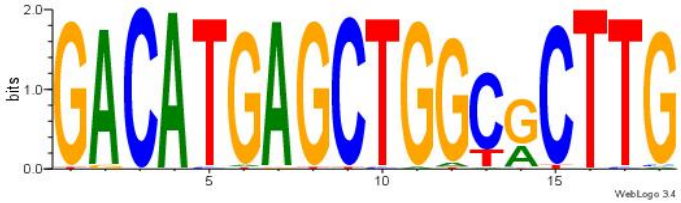

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

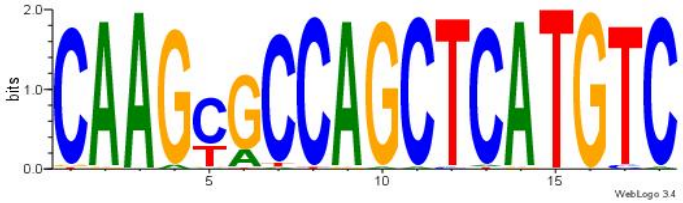

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0707484

Alignment:
CTGACTGGGAGACACCTCCC
-TAAGTGGGAGCTAARC---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

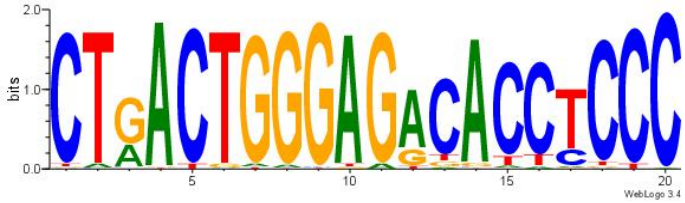

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

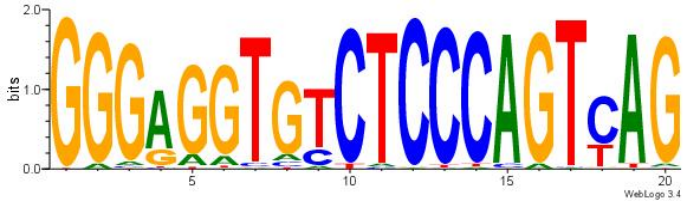

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0721808

Alignment:

```
TCAATGGGCTCCCAAATG
--GMTTAGCTCCCACTTA
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

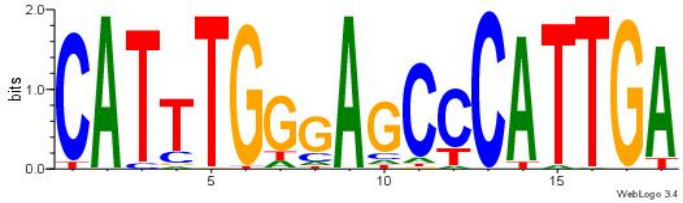

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

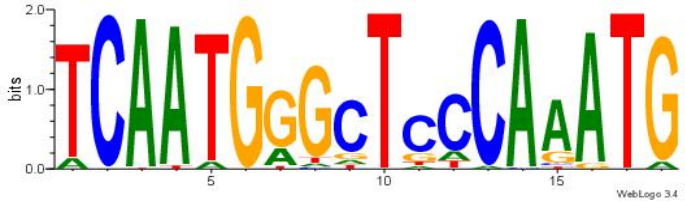

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0724147

Alignment:

```
TGHCCTGCKCCCACTGTCT
-GMTTAGCTCCCACTTA--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

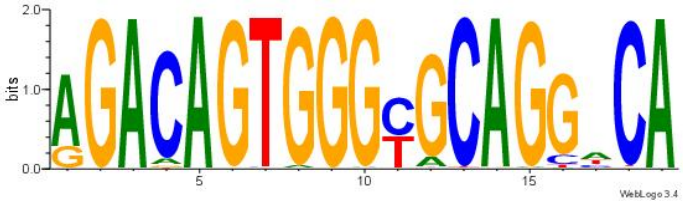

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

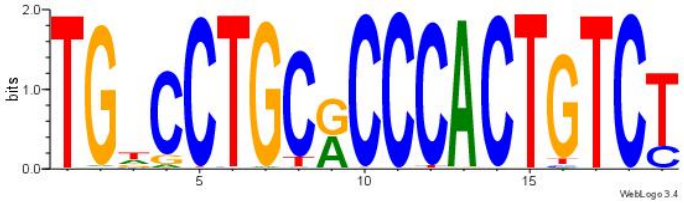

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.0731602

Alignment:
GCCAATTTCTCCCATTTGGA
--GMTTAGCTCCCACTTA--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

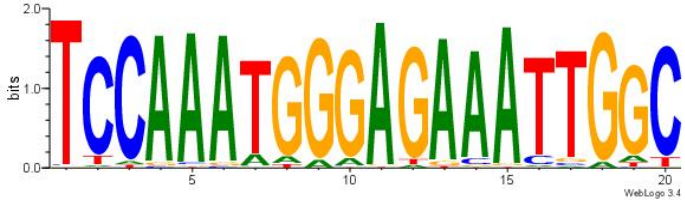

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

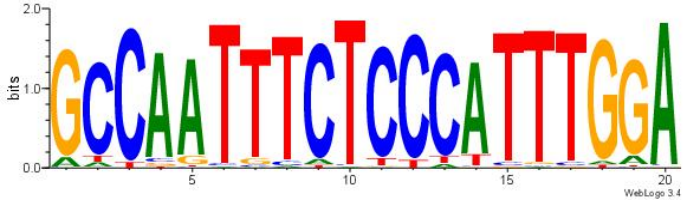

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.0778659

Alignment:
AGGAACAGCTCCRGTCTAC
-GMTTAGCTCCCACTTA--

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

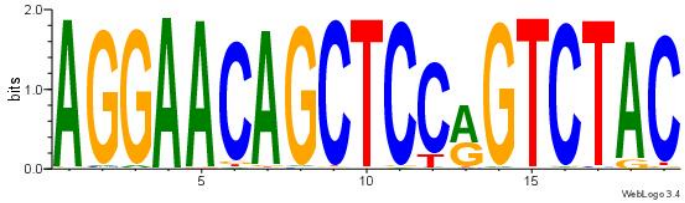

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

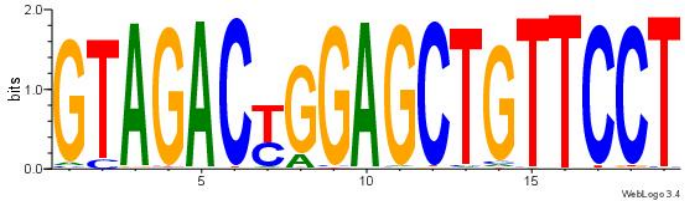

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0782358

Alignment:

```
GTKTMTATMTACCACATTTT
--GMTTAGCTCCCACTTA--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

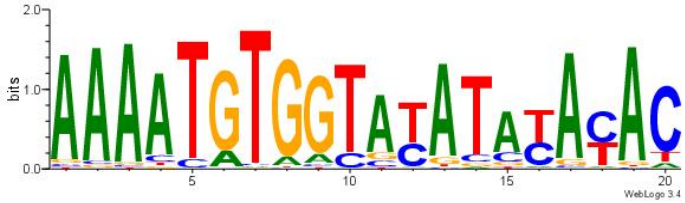

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

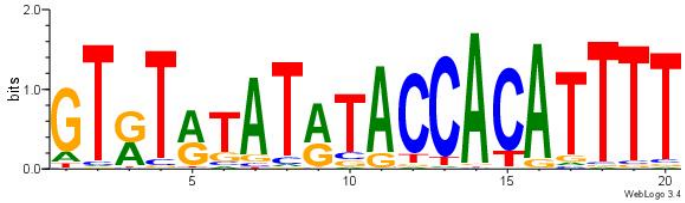

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0827402

Alignment:

```
GCTGGCCCKGGTGCTAAGC
TAAGTGGGAGCTAARC---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

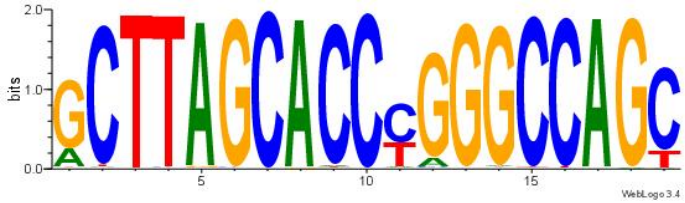

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

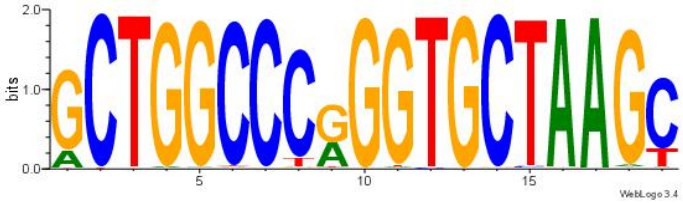

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.0828698

Alignment:
AATGAGTTAAGACTTTG
GMTTAGCTCCCACTTA-

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

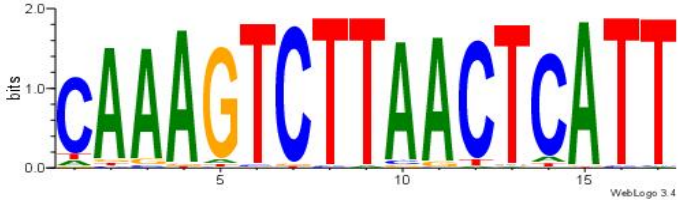

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.0881882

Alignment:
AGCTCMKCCTCCTGTCAGAT
-GMTTAGCTCCCACTTA---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

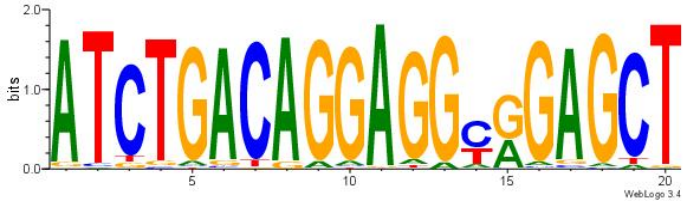

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

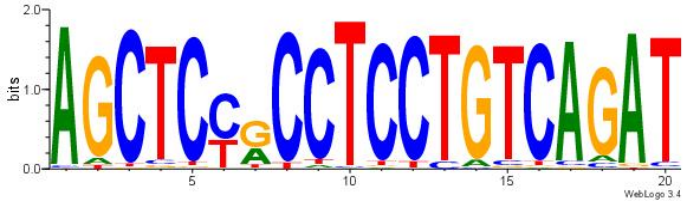

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0906002

Alignment:

```
AGTAGGTGCTCARTAAATRB
--TAAGTGGGAGCTAARC--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

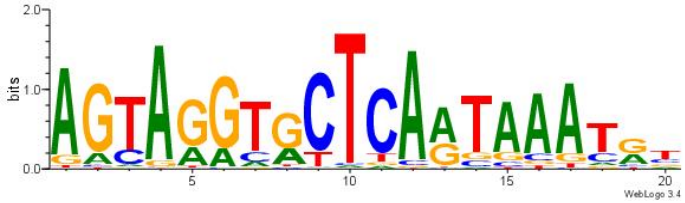

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

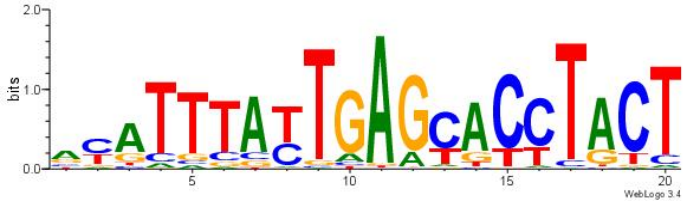

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0914466

Alignment:

```
GACTGGCAGGCAGCTCCACC
---TAAGTGGGAGCTAARC-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

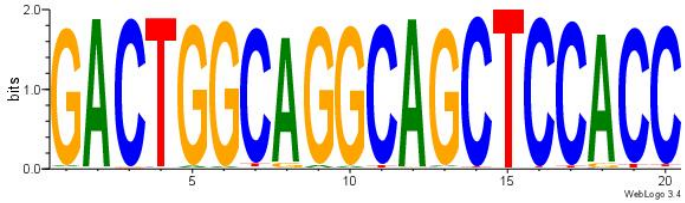

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

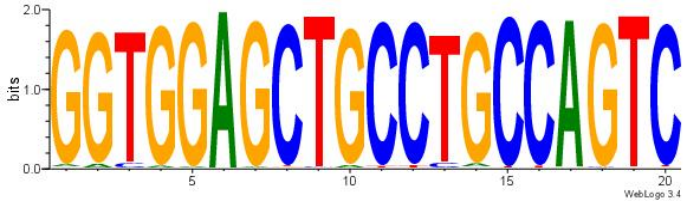

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.0923193

Alignment:
GKCTGTACCCCCATTGTAT
-GMTTAGCTCCCACTTA--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

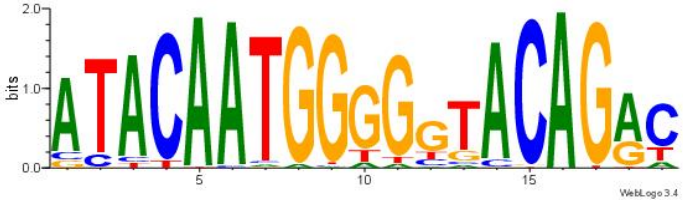

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

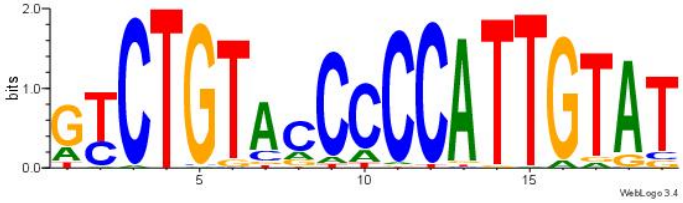

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.0928413

Alignment:
GTTAACTGTAAAACAGCCT
--TAAGTGGGAGCTAARC-

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

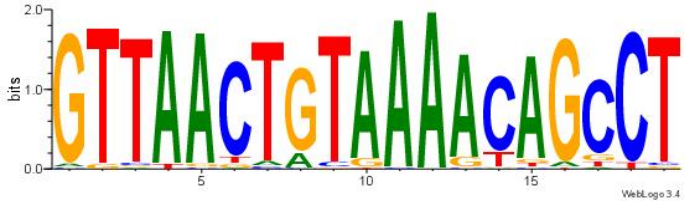

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

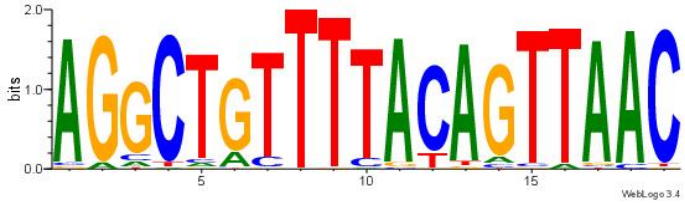

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0928855

Alignment:

```
TTGGTGGTCTCTTCACA
TAAGTGGGAGCTAARC-
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

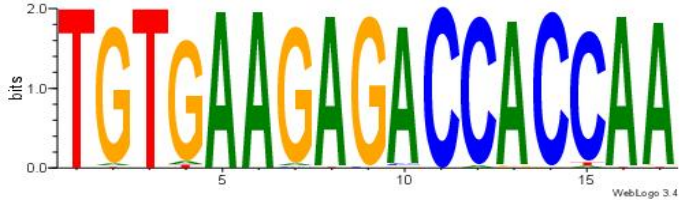

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

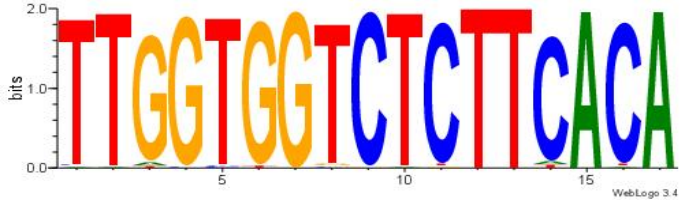

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.0956576

Alignment:

```
CGGCGCTGMGCTCGATTTCT
----GMTTAGCTCCCACTTA
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

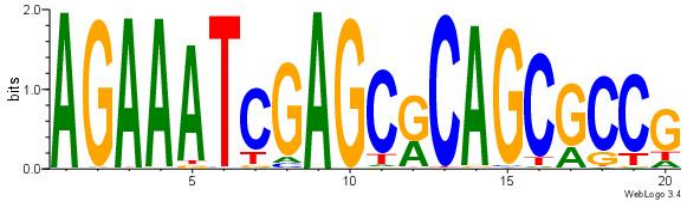

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

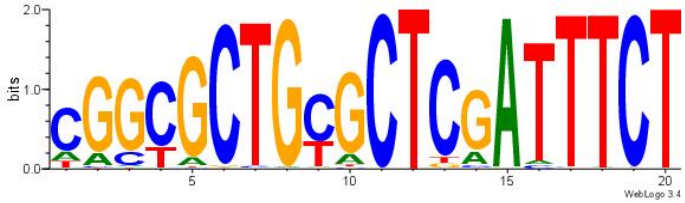

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.0964955

Alignment:
GAATACCTCCTGAAGGACCT
GMTTAGCTCCCACTTA----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

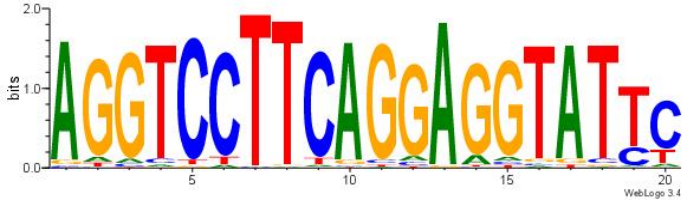

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

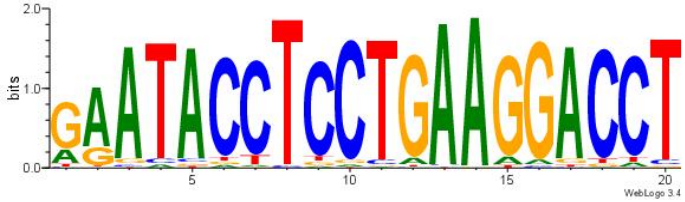

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.0964977

Alignment:
CAAGTTGACACATAAAATTA
TAAGTGGGAGCTAARC----

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

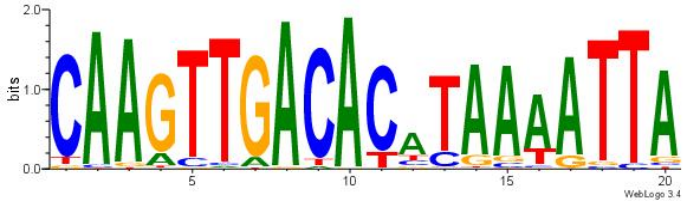

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

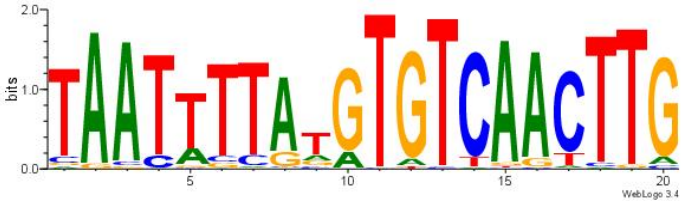

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.0969596

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
GMTTAGCTCCCACTTA----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

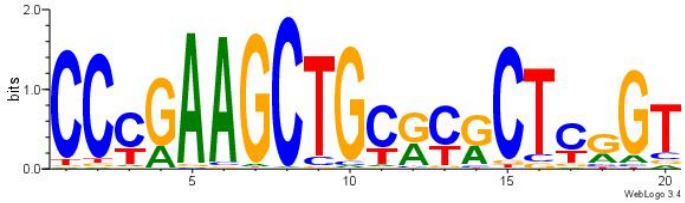

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

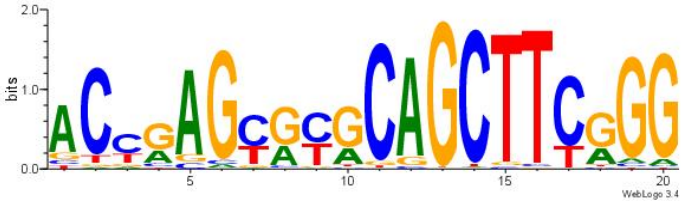

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0974536

Alignment:

```
GGTTCATCTCACTAGGGAGT
---GMTTAGCTCCCACTTA-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

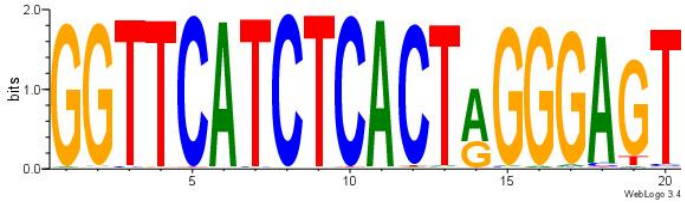

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

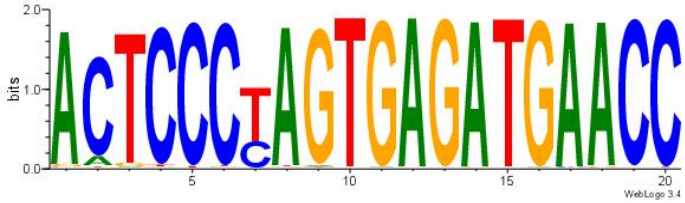

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.0977616

Alignment:
GACATGGAGTCAAAGG
TAAGTGGGAGCTAARC

Original motif Consensus sequence: GACATGGAGTCAAAGG

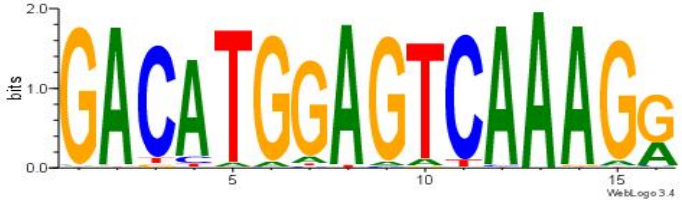

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

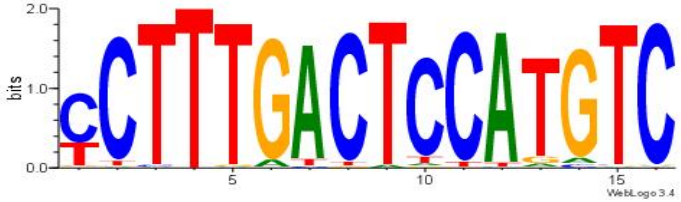

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.0977803

Alignment:
GAGAGAGAGAGAGAGAGAGA
---TAAGTGGGAGCTAARC-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

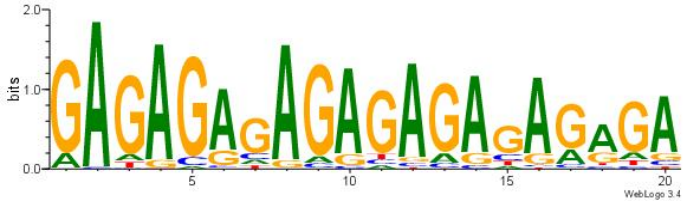

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

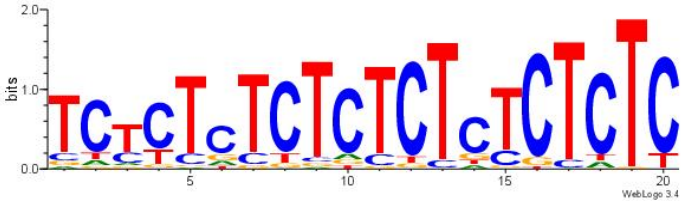

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0979451

Alignment:

```
AGCCYCTGGYAACCAYYAWT
---GMTTAGCTCCCACTTA-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

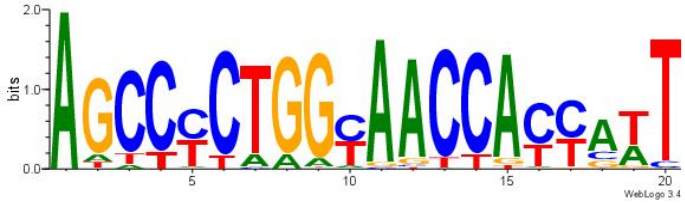

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

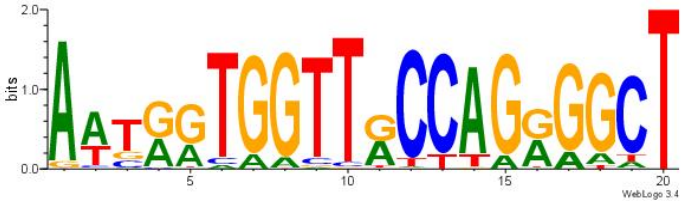

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0980472

Alignment:

```
GCTAATATATCCCTCCC
GMTTAGCTCCCACTTA-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

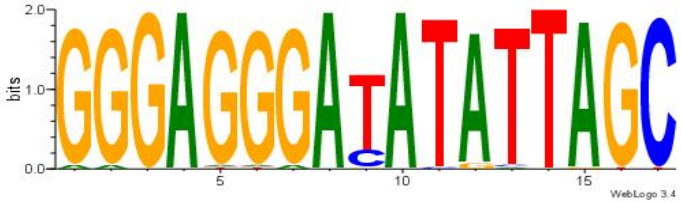

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

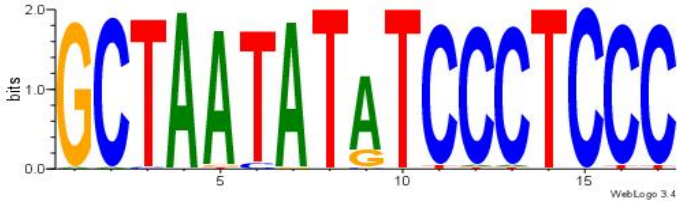

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.0981196

Alignment:
AAGCTGAGGGAGCCGGCTCC
--TAAGTGGGAGCTAARC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

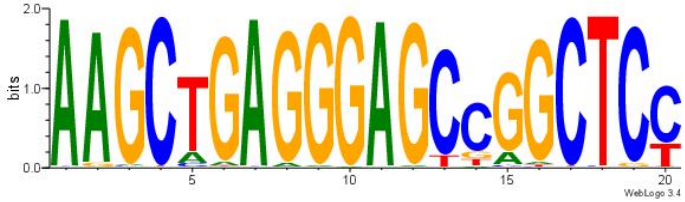

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

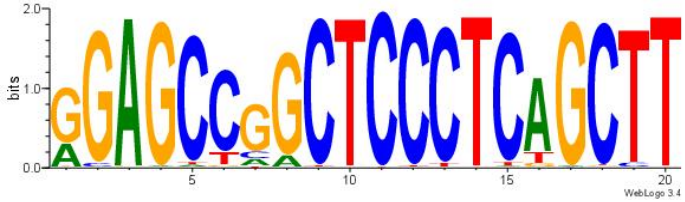

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.0981554

Alignment:
GGGTGCAGGMGGGCTGAGT
---TAAGTGGGAGCTAARC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

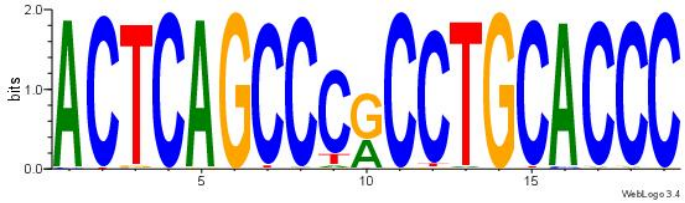

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

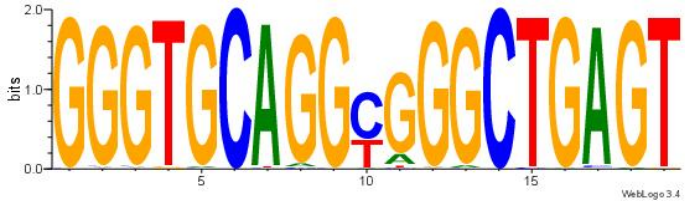

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0985126

Alignment:

```
AGCCCCGGTTCCCGCYCGC
--GMTTAGCTCCCACTTA-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

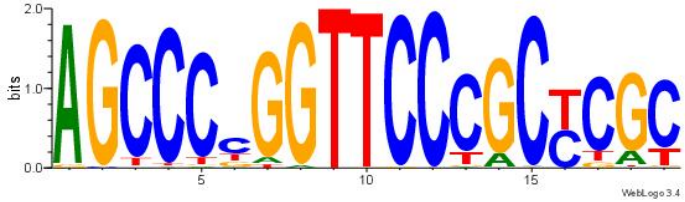

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

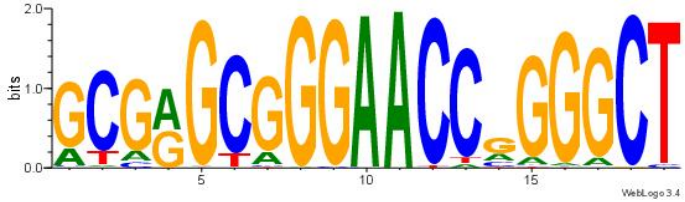

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0989626

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-GMTTAGCTCCCACTTA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

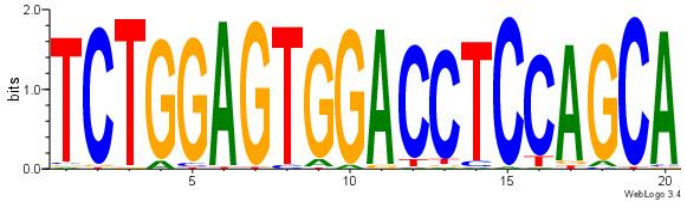

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

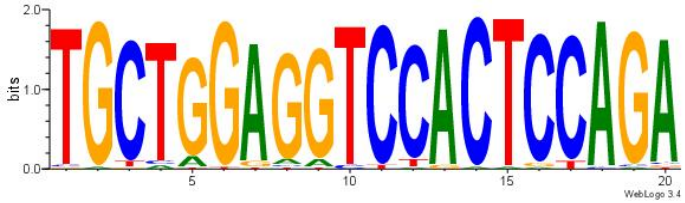

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.0990323

Alignment:
GCCKGGMKCMGTGGCTCAKG
TAAGTGGGAGCTAARC----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

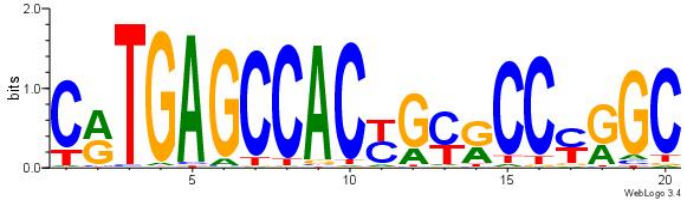

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

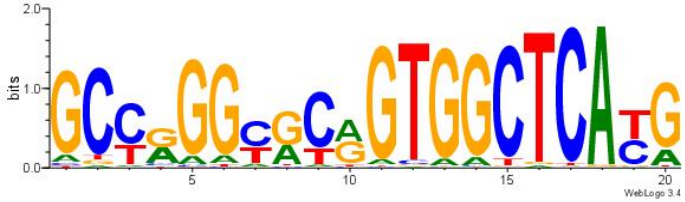

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.0995417

Alignment:
CCCYAATACTGCGCTTTTC
TAAGTGGGAGCTAARC---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

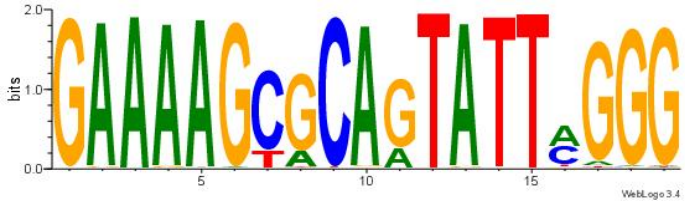

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

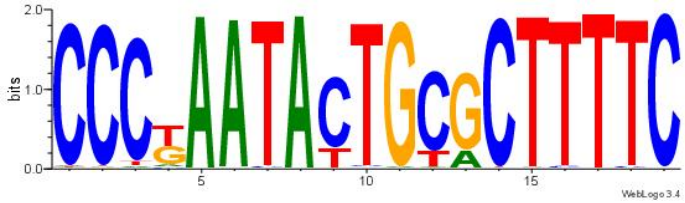

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0999763

Alignment:

```
CTTGGGTGGTCGATGGGAC
-TAAGTGGGAGCTAARC--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

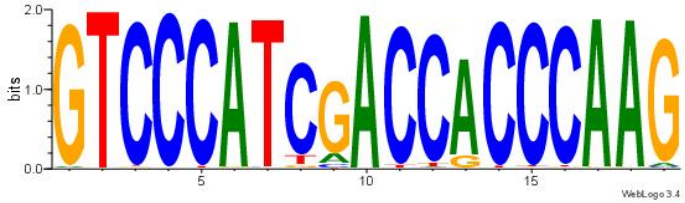

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

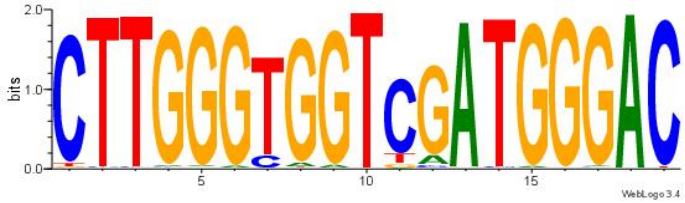

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.100836

Alignment:

```
CATTAGATTCTCATAGGA
GMTTAGCTCCCACTTA--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

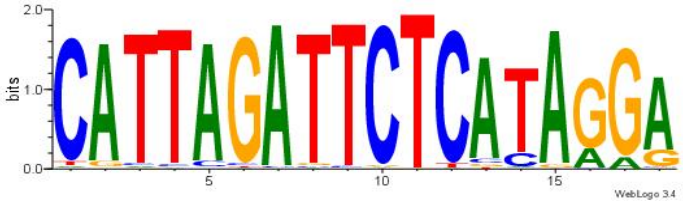

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

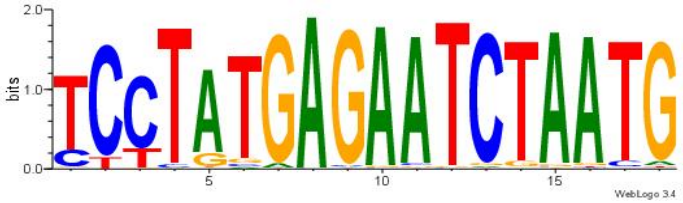

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.10119

Alignment:
GTTGTGAGGATTAAATGAG
TAAGTGGGAGCTAARC---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

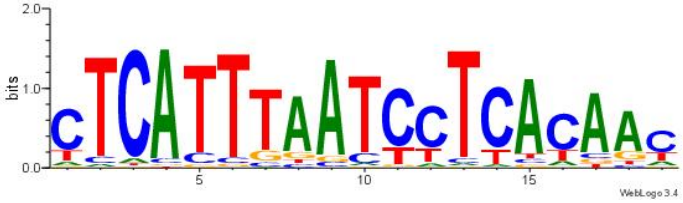

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

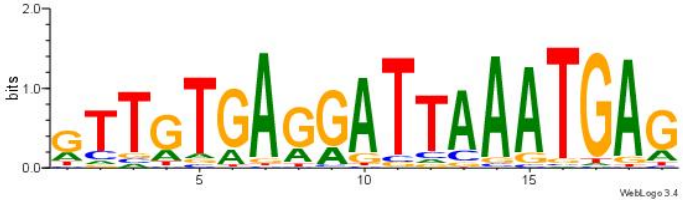

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.101682

Alignment:
GGCATCACGGATCCTACCAA
----GMTTAGCTCCCACTTA

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

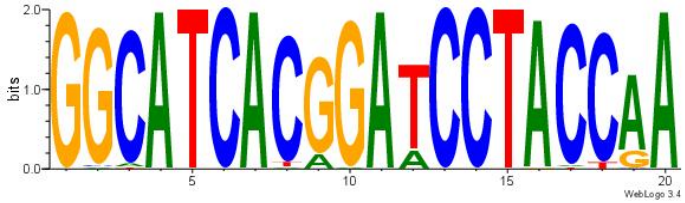

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

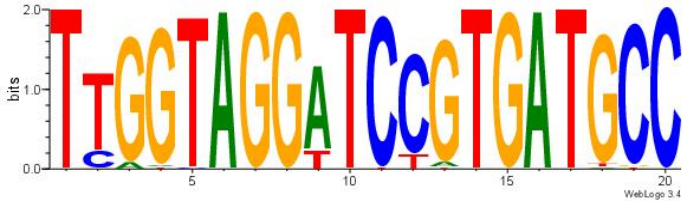

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.10222

Alignment:

```
AATTAAAAGACACAGACTG
GMTTAGCTCCCACTTA---
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

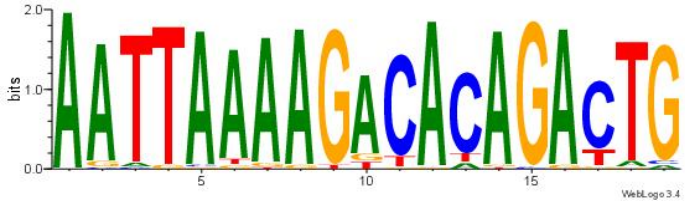

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

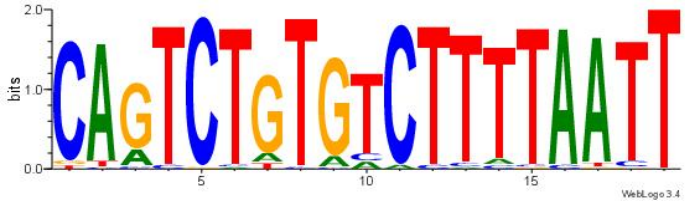

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.102355

Alignment:

```
GGCAATGCCTCGCCCTGCTT
--GMTTAGCTCCCACTTA--
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

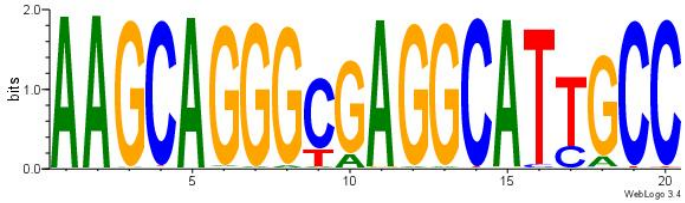

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

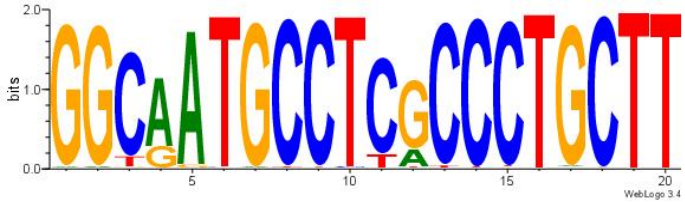

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.102718

Alignment:
CTATTGTGAATARTGCTGC
TAAGTGGGAGCTAARC---

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

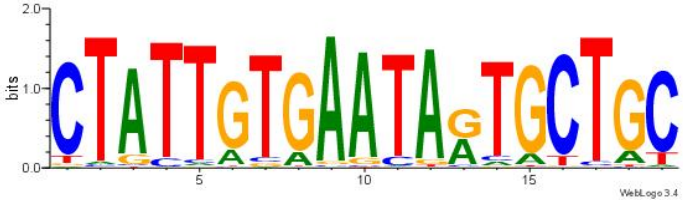

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

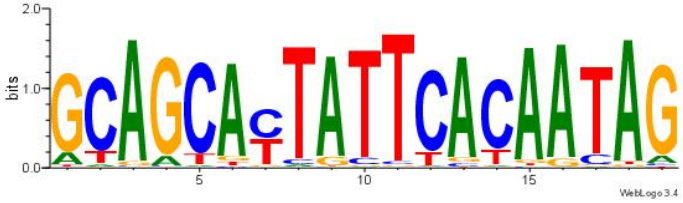

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.103069

Alignment:
CTTGCCCAAGGTCACACAGC
----GMTTAGCTCCCACTTA

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

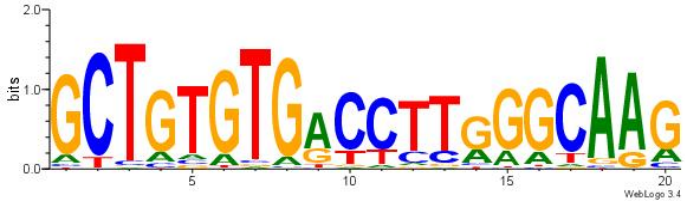

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

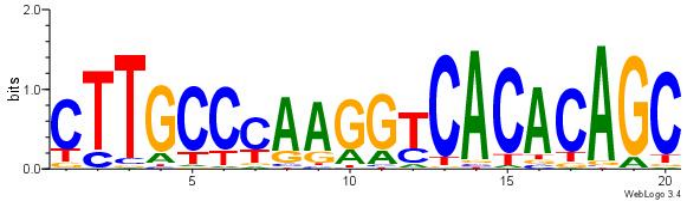

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.104711

Alignment:

```
CCTTGGCCAGCCCAGAAAG
GMTTAGCTCCCACTTA---
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

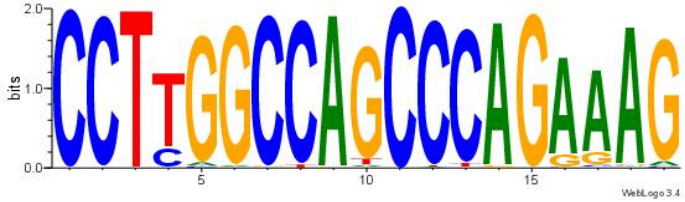

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

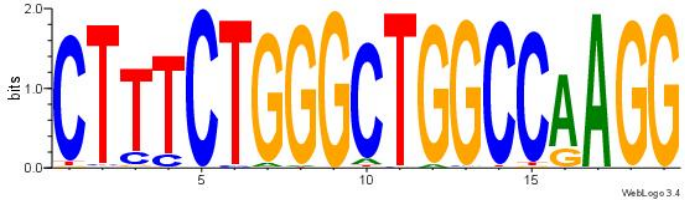

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.10492

Alignment:

```
CCTGCCATTGCYSAGGCTTG
----GMTTAGCTCCCACTTA
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

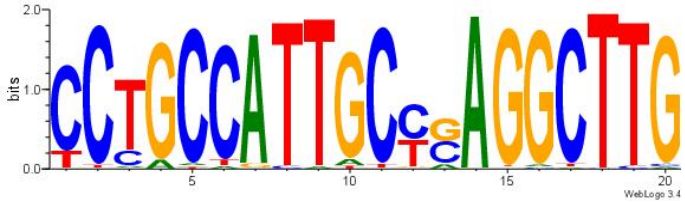

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

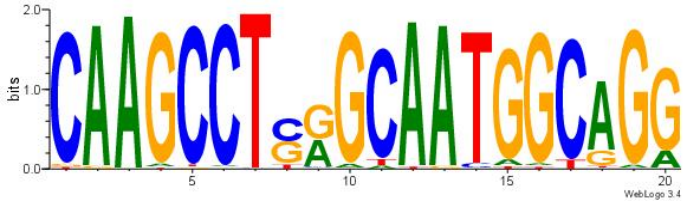

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.105563

Alignment:
TGATACCCAGGCAAACAG
TAAGTGGGAGCTAARC--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

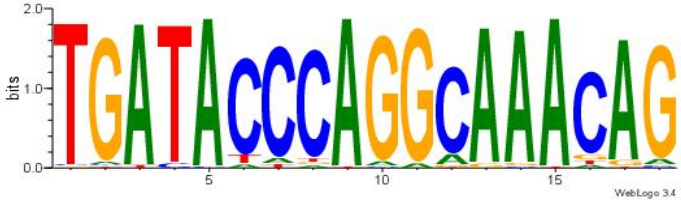

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

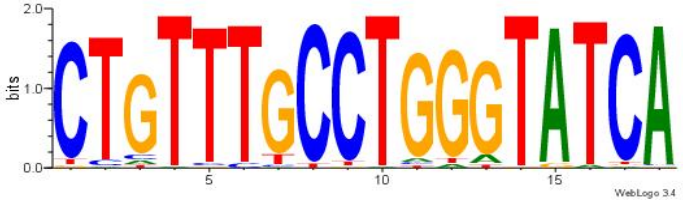

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.106535

Alignment:
CATTTCCAWCTGAGGTAC
-GMTTAGCTCCCACTTA-

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

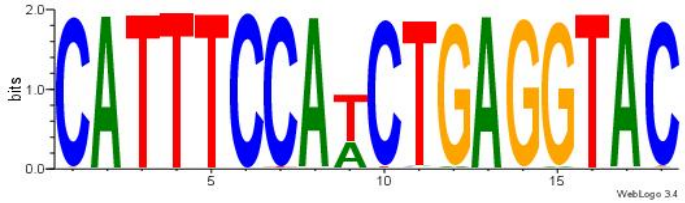

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

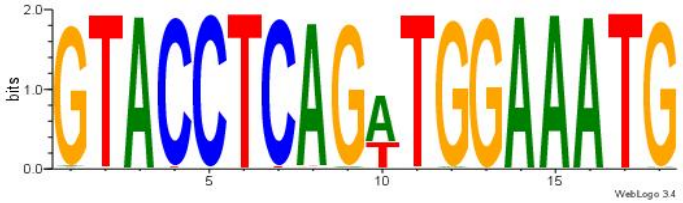

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.106557

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-TAAGTGGGAGCTAARC---
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

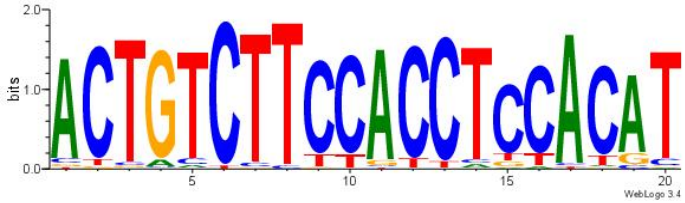

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

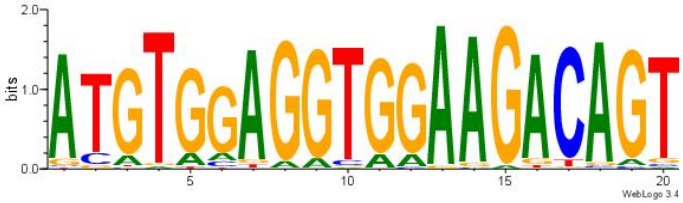

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.106667

Alignment:

```
ATGTAACCAAAYACCACCTG
----GMTTAGCTCCCACTTA
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

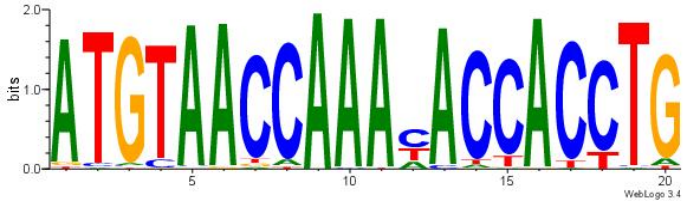

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

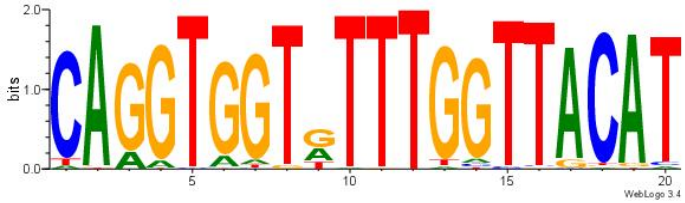

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.106814

Alignment:
TWTACCTATGTAACAAACCT
--TAAGTGGGAGCTAARC--

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

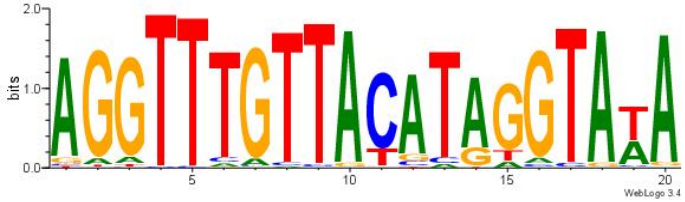

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

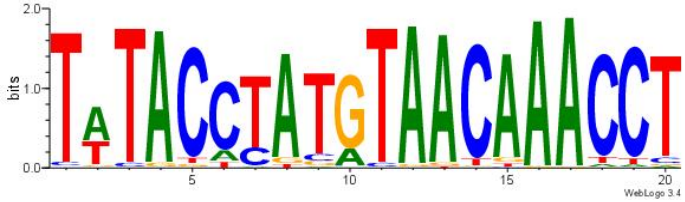

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.107193

Alignment:
CCCMKGGCACCCTCAGTCCT
-GMTTAGCTCCCACTTA---

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

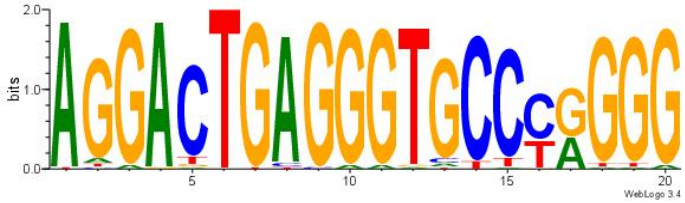

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

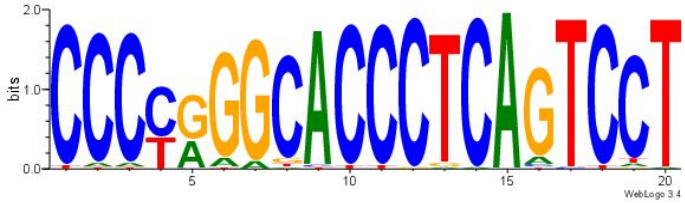

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.107473

Alignment:

```
AAGTTCTKGGKTACATGTGC
----TAAGTGGGAGCTAARC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

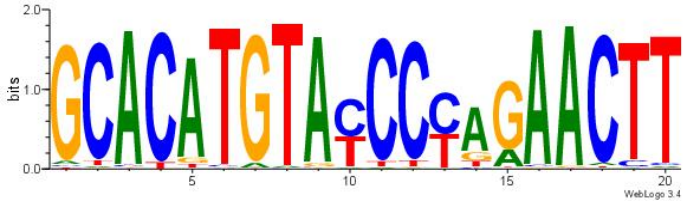

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

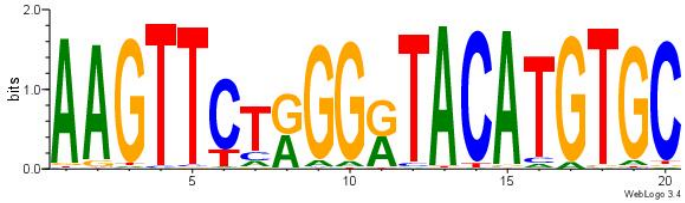

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.107816

Alignment:

```
ATCTCASAAATCACCACTA
---GMTTAGCTCCCACTTA
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

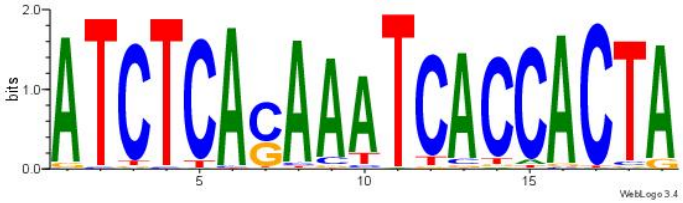

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

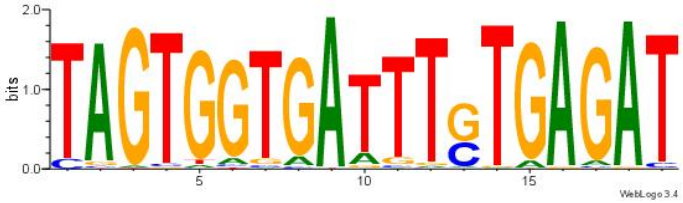

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.107961

Alignment:
AGCTGTGAGAAGAGGGCCAC
-TAAGTGGGAGCTAARC---

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

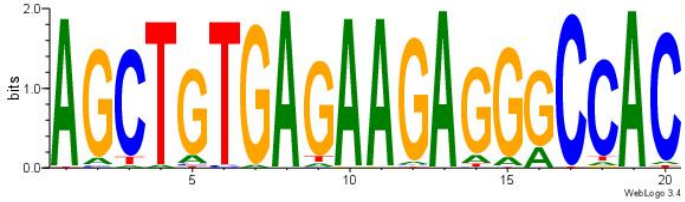

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

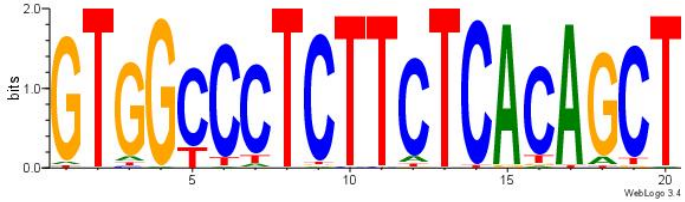

Dataset #: 1 Motif ID: 95 Motif name: Motif 95

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

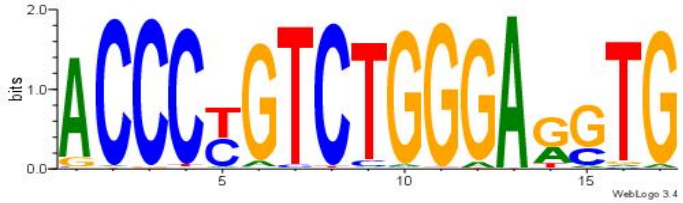

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

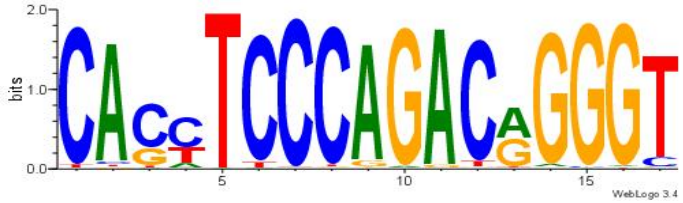

Best Matches for Motif ID 95 (Highest to Lowest)

Dataset #: 1
Motif ID: 27
Motif name: Motif 27

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0376618

Alignment:

```
CACTTCCCAGACGGGGCG
-CACCTCCCAGACMGGGT
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

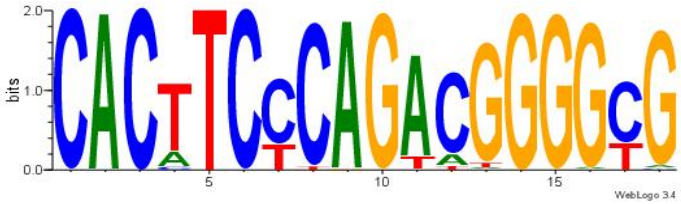

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

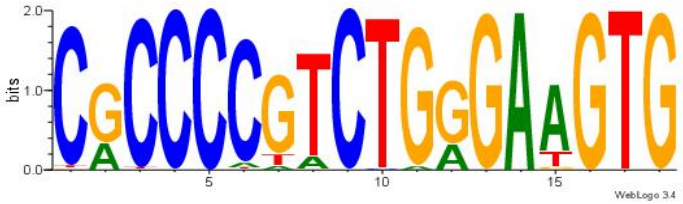

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0519023

Alignment:
TGCCCAGTCTGGAAAGTG
-ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

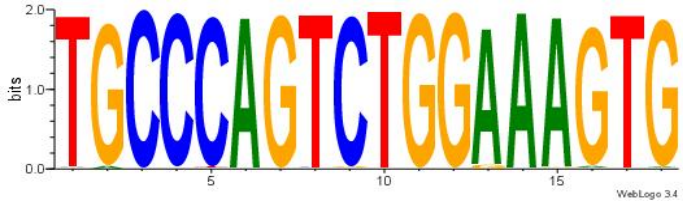

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

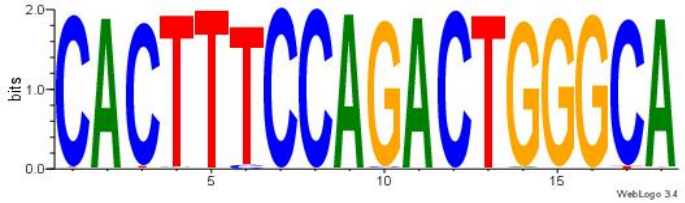

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0726859

Alignment:
GCCKCCCCGTCCGGGAGGGA
---ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

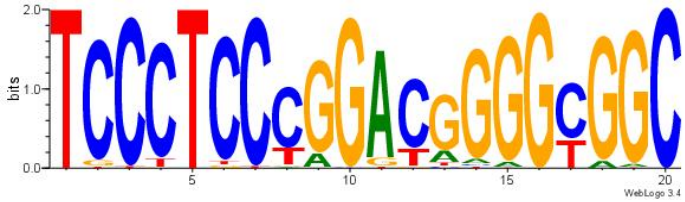

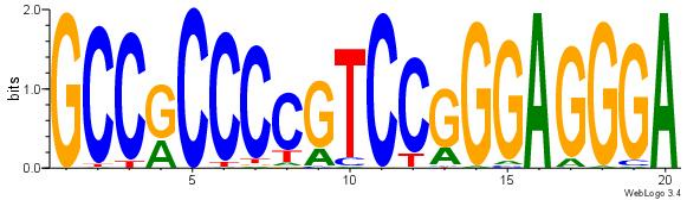

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0892583

Alignment:

```
ACACATCACAAAGCAGTTTC
-CACCTCCCAGACMGGGT--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

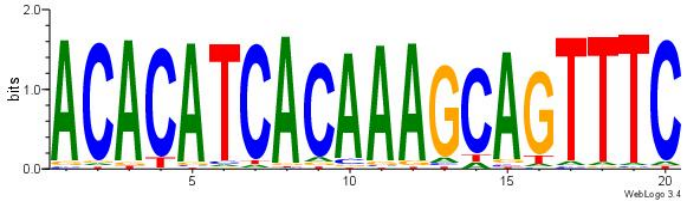

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

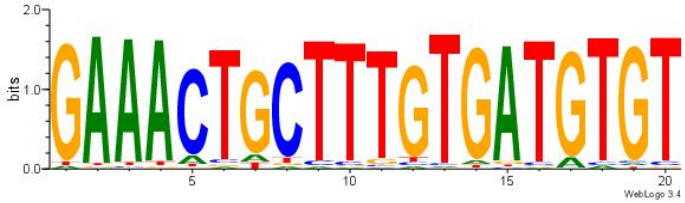

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0946365

Alignment:

```
AACCCTATTGTGAACTGYG
ACCCYGTCTGGGAGGTG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

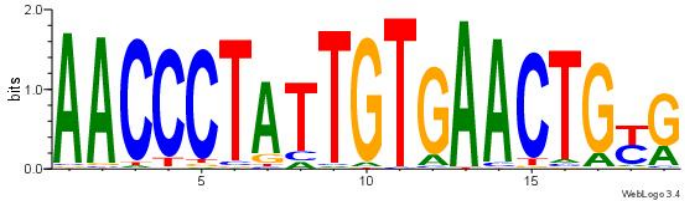

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

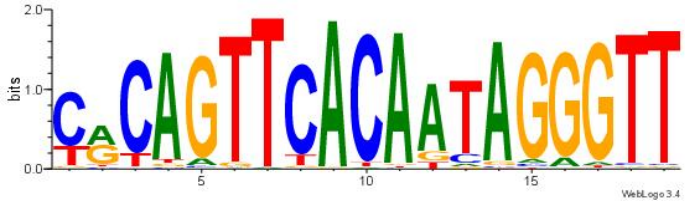

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.0962411

Alignment:
GCTCCACCCAGTTCGAGCTT
-CACCTCCCAGACMGGGT--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

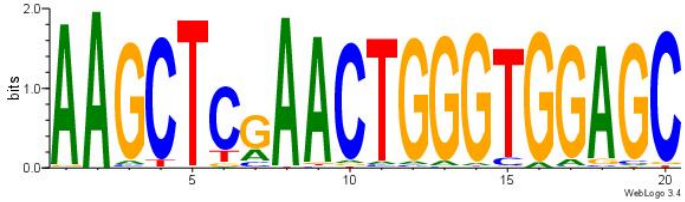

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

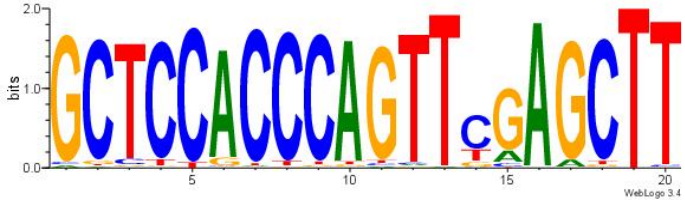

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.096694

Alignment:
GGTGCCCCTCTGGGACRAA
--ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

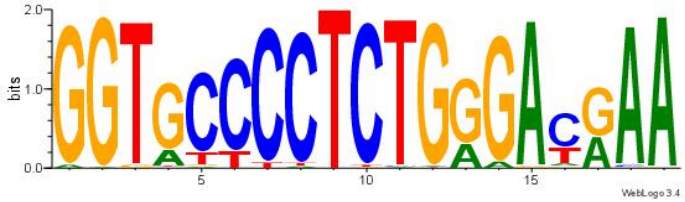

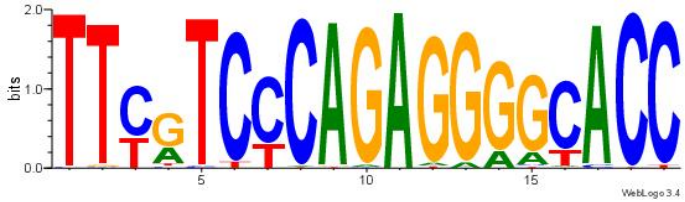

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.0993895

Alignment:
AACAACASACACTGGGGCCT
CACCTCCCAGACMGGGT---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

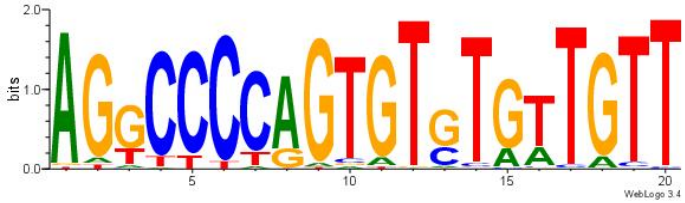

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

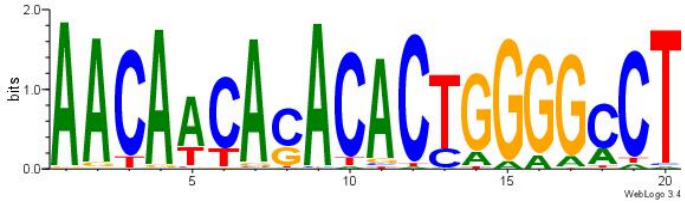

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.10207

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-ACCCYGTCTGGGAGGTG--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

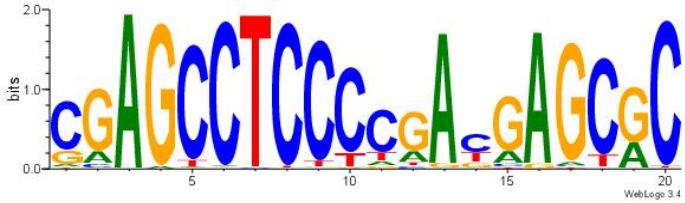

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

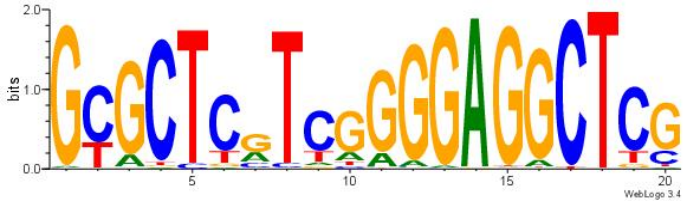

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.107689

Alignment:
AGCTCCCAGCGTGAGCGACG
---ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

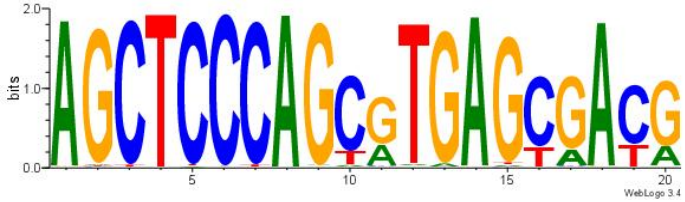

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

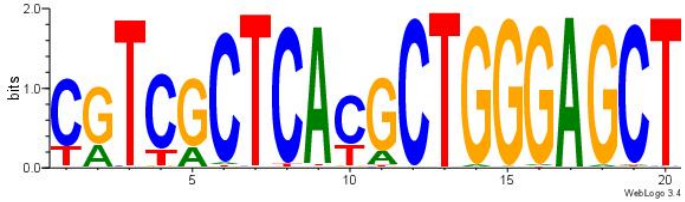

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.110504

Alignment:
GTAACACTCACCGCGARGGT
---ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

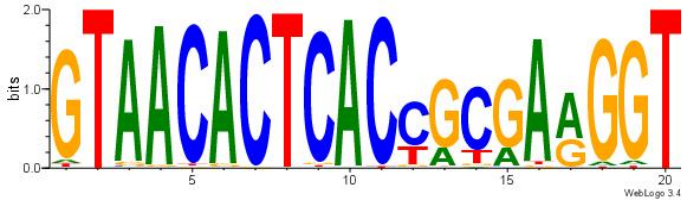

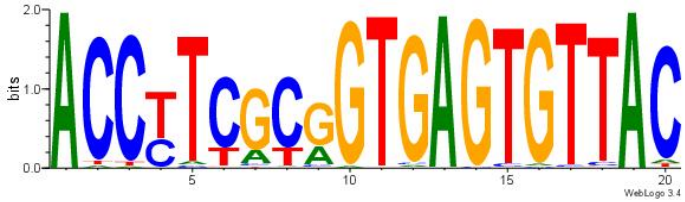

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.11104

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-ACCCYGTCTGGGAGGTG--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

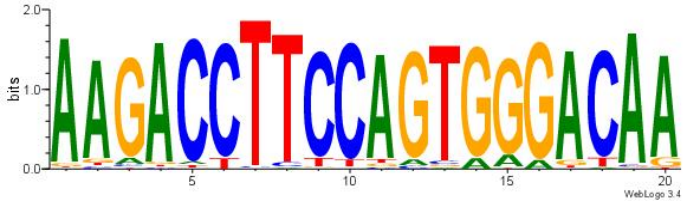

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

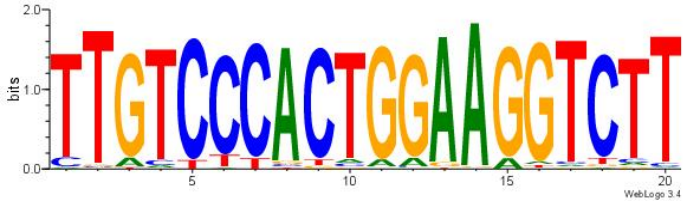

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.113656

Alignment:

```
ACATCMTCTGAAATCTAGG
ACCCYGTCTGGGAGGTG--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

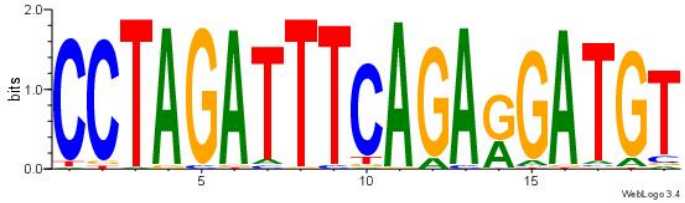

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

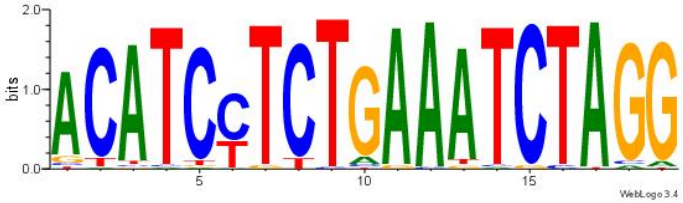

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.11391

Alignment:
TAAAAGACTACAWATTGGGT
---CACCTCCCAGACMGGGT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

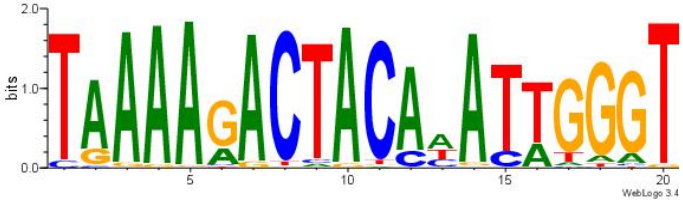

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

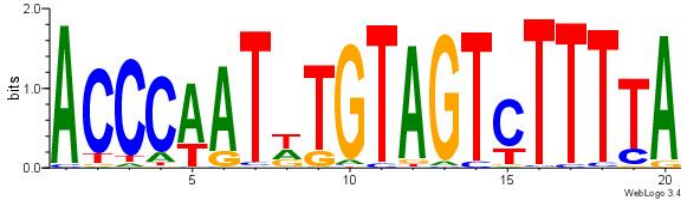

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.117291

Alignment:
CAAGCGCCAGCTCATGTC
CACCTCCCAGACMGGGT-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

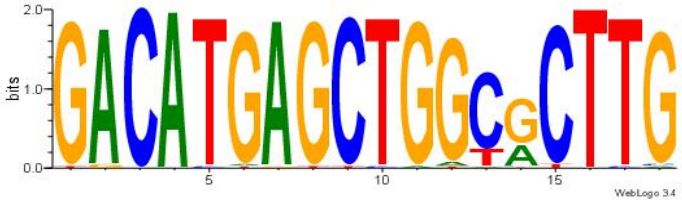

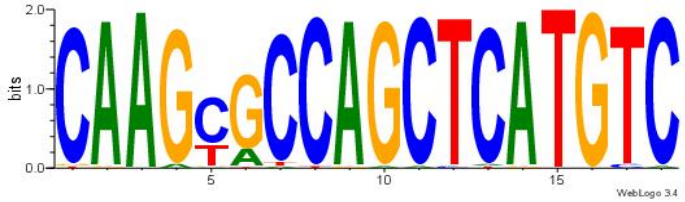

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.117869

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-ACCCYGTCTGGGAGGTG-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

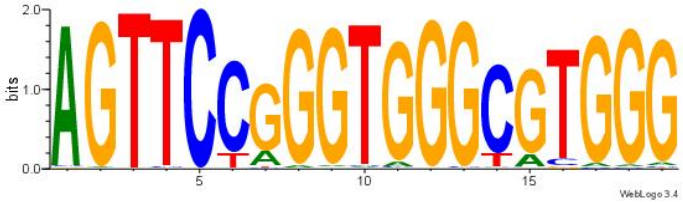

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

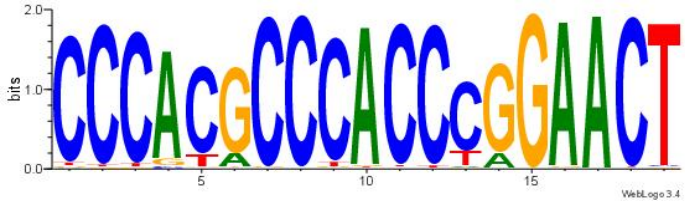

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.118149

Alignment:

```
AAATTACCCAGTCTCAGGTA
-CACCTCCCAGACMGGGT--
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

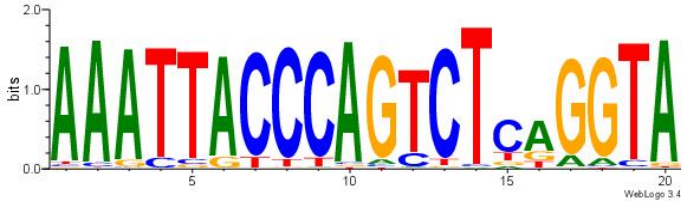

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

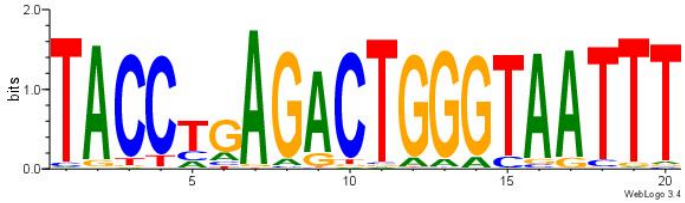

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.119337

Alignment:
AGGTCCTTCAGGAGGTATTC
ACCCYGTCTGGGAGGTG---

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

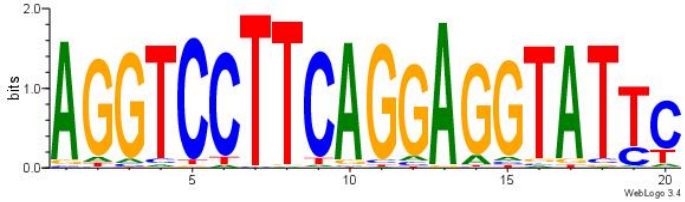

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

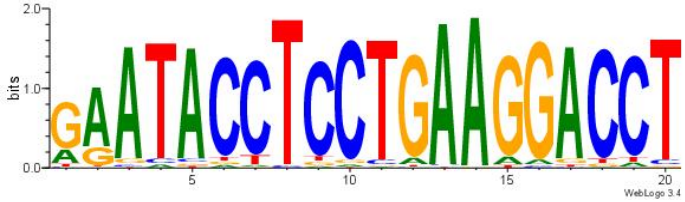

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.119583

Alignment:
GGCAATGCCTCGCCCTGCTT
--CACCTCCCAGACMGGGT-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

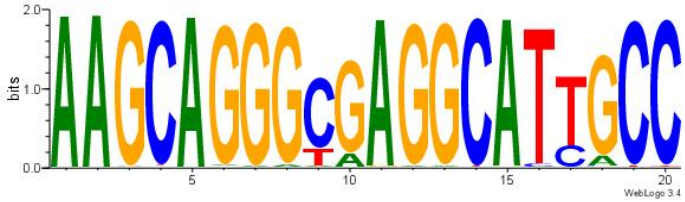

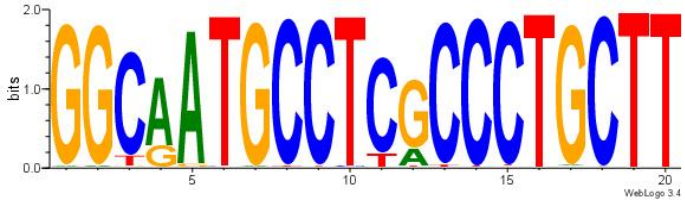

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.120498

Alignment:

```
GCTGCARTCTCGGCACTTT
-ACCCYGTCTGGGAGGTG-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

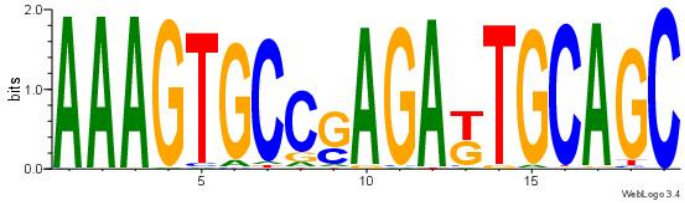

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

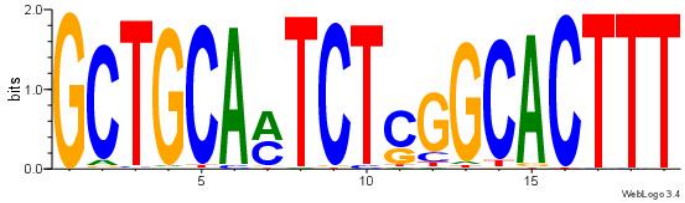

Dataset #:	1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.121373

Alignment:

```
CATTTCCAWCTGAGGTAC
-CACCTCCCAGACMGGGT
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

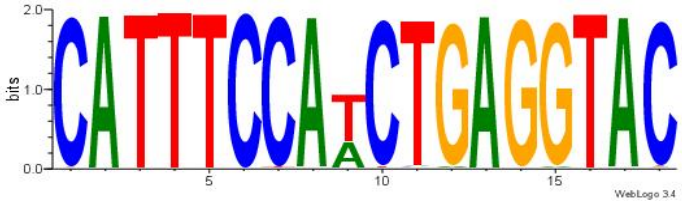

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

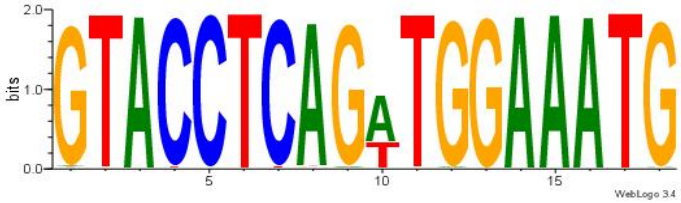

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.121561

Alignment:
CCCAAATCTCATSTTGAAT
--CACCTCCCAGACMGGGT

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

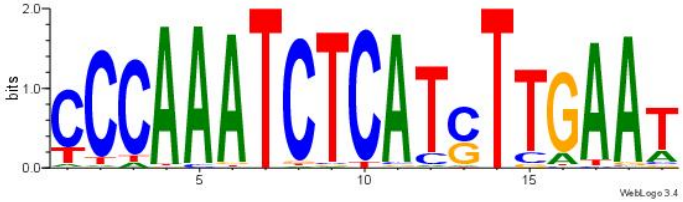

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

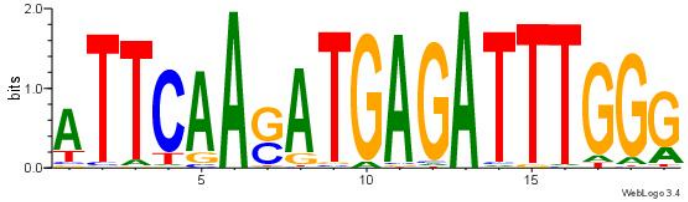

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.12182

Alignment:
AGGCTGTTTTACAGTTAAC
ACCCYGTCTGGGAGGTG--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

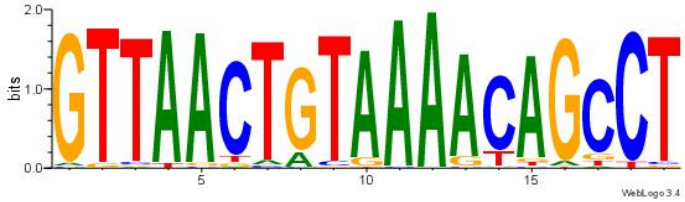

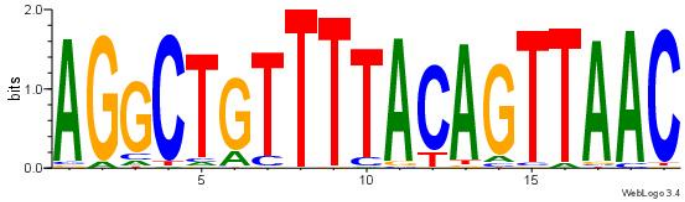

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.123195

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
---CACCTCCCAGACMGGGT
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

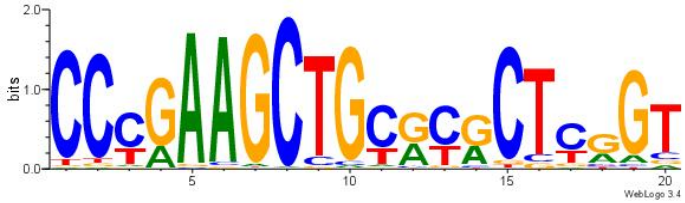

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

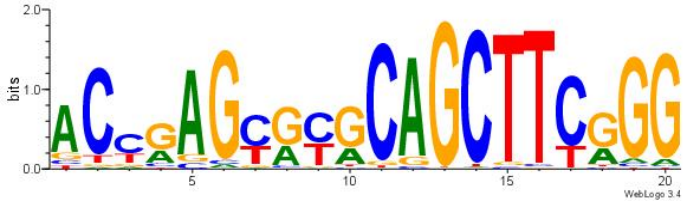

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.123312

Alignment:

```
TCCAAATGGGAGAAATTGGC
--CACCTCCCAGACMGGGT-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

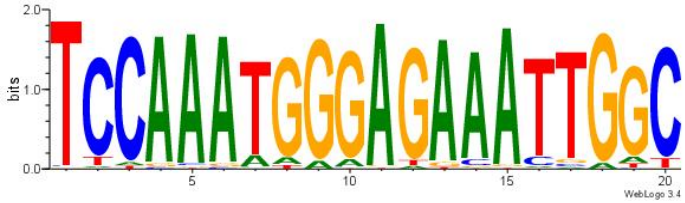

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

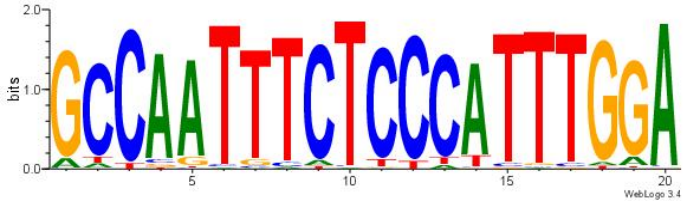

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.123336

Alignment:
CCCATGCAAGTCYRAAATCC
CACCTCCCAGACMGGGT---

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

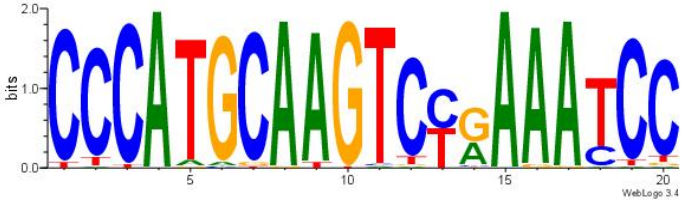

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

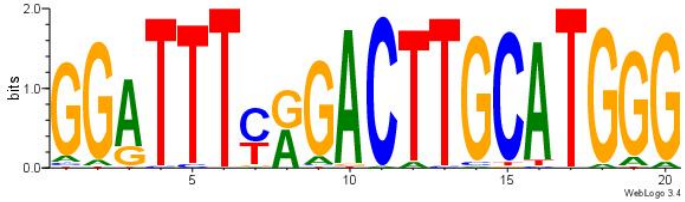

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.123605

Alignment:
GGGCTCCCACAGTGCAGCGG
CACCTCCCAGACMGGGT---

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

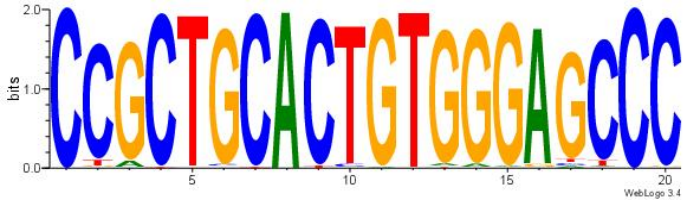

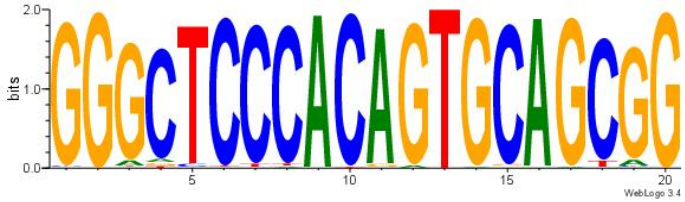

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.123719

Alignment:

```
GGATCCACTGGGTGAAGCCA
--ACCCYGTCTGGGAGGTG-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

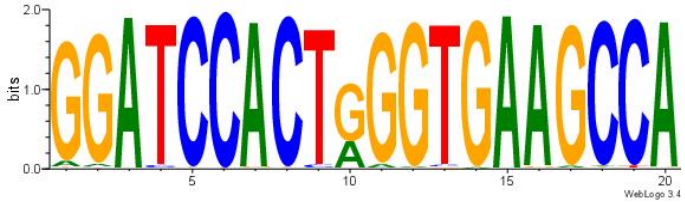

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

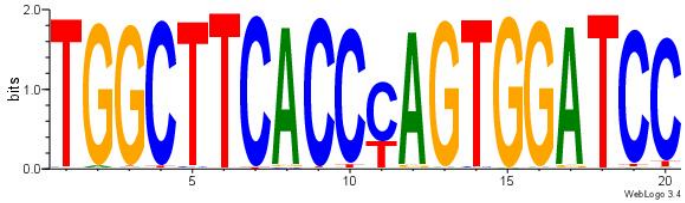

Dataset #: 1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.12376

Alignment:

```
MCCYGGCWSMGASGSTCCT
--ACCCYGTCTGGGAGGTG
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

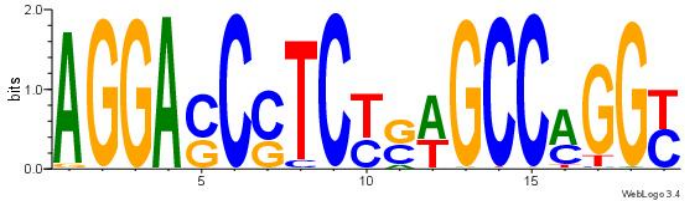

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

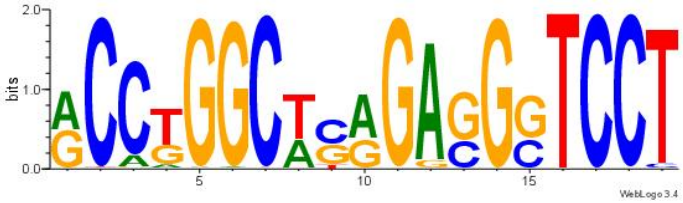

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.124478

Alignment:
CCTTGGCCAGCCCAGAAAG
CACCTCCCAGACMGGGT--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

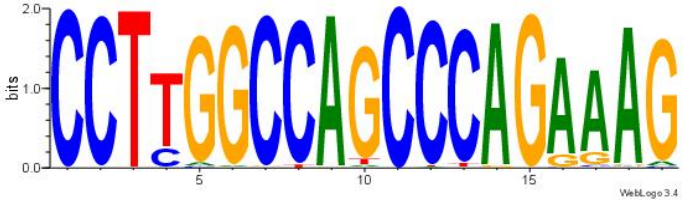

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

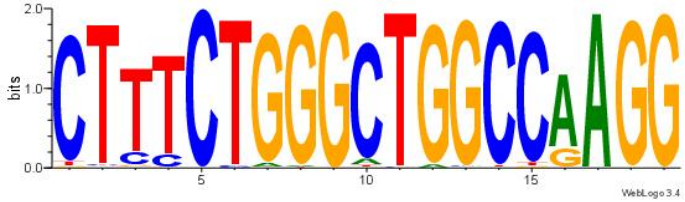

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.124851

Alignment:
CAACATGGATGRARCTGGAG
-ACCCYGTCTGGGAGGTG--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

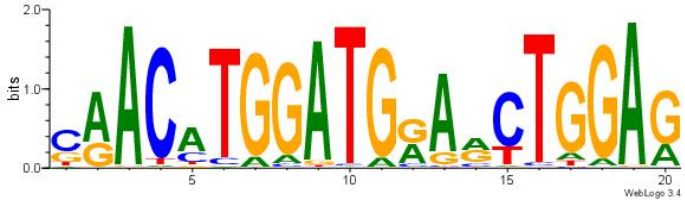

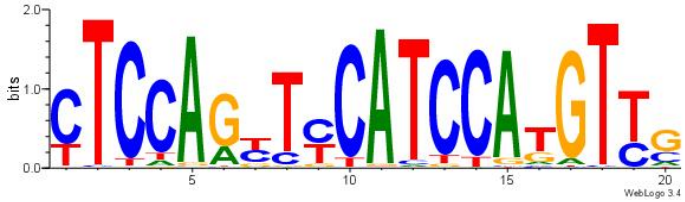

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.125879

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CACCTCCCAGACMGGGT---
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

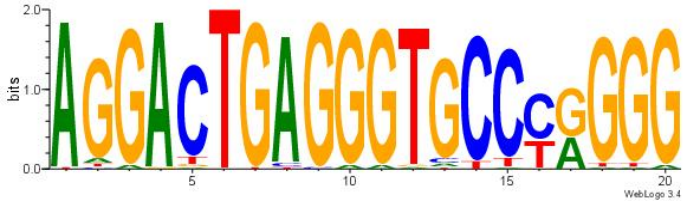

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

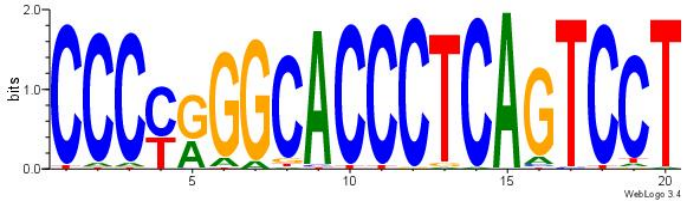

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.12615

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
---ACCCYGTCTGGGAGGTG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

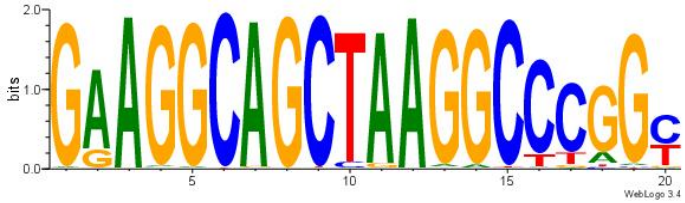

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

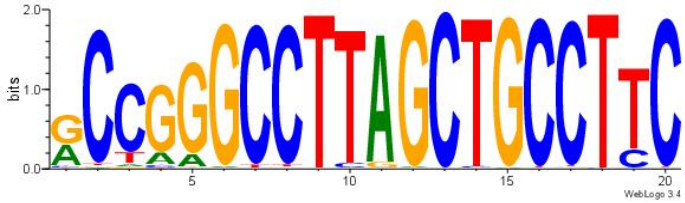

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.127893

Alignment:
CGCCCATCGTCTGGGATGT
-ACCCYGTCTGGGAGGTG-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

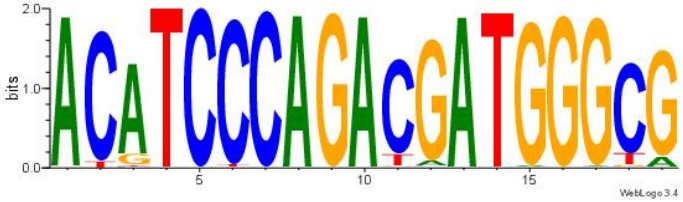

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

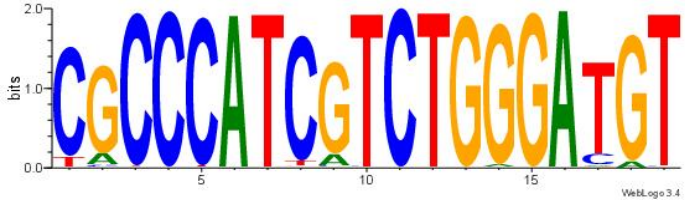

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.128258

Alignment:
ACAGGCTGTCCCAGGATTC
--ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

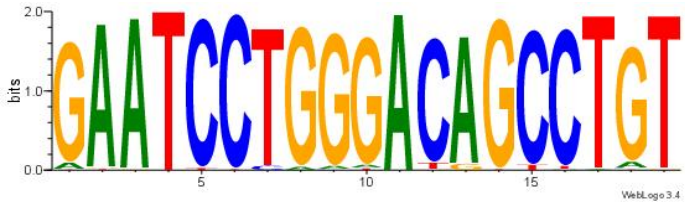

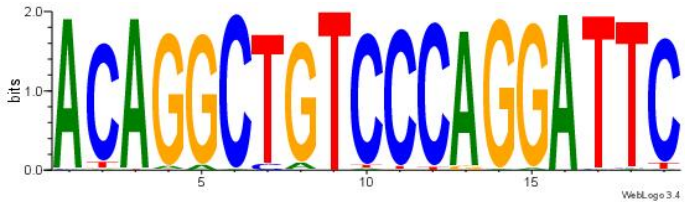

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.128396

Alignment:

```
GGTTCATCTCACTAGGGAGT
-CACCTCCCAGACMGGGT--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

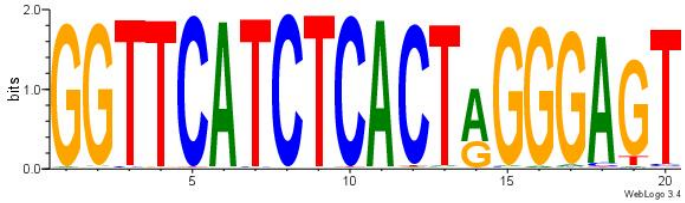

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

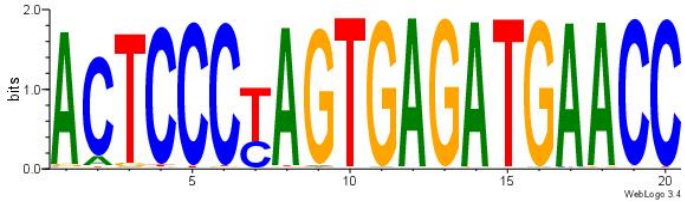

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.129196

Alignment:

```
CCTGCCATTGCYSAGGCTTG
---ACCCYGTCTGGGAGGTG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

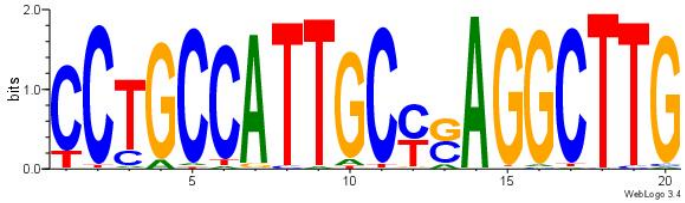

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

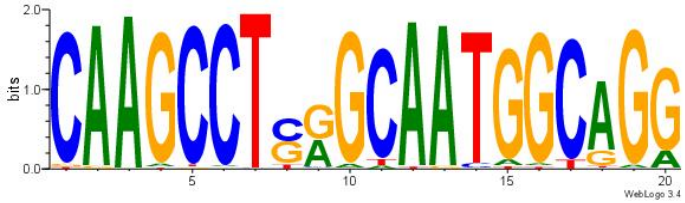

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.131071

Alignment:
GCCKGGMKCMGTGGCTCAKG
---ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

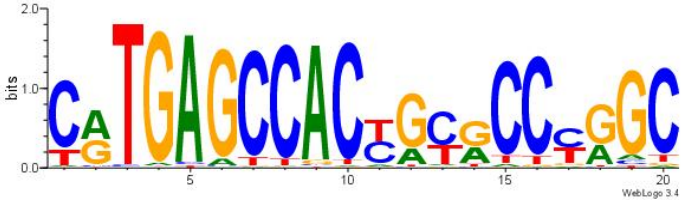

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

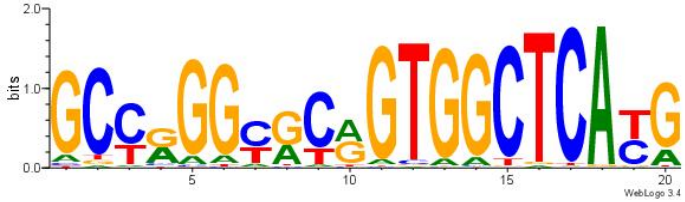

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.131358

Alignment:
GCGMGCGGGAACCGGGGCT
CACCTCCCAGACMGGGT--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

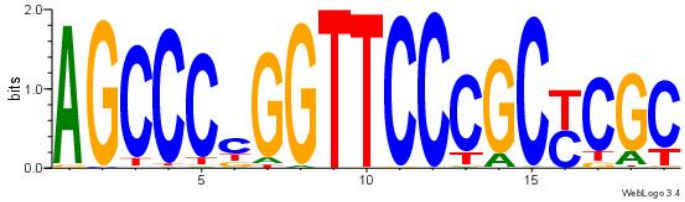

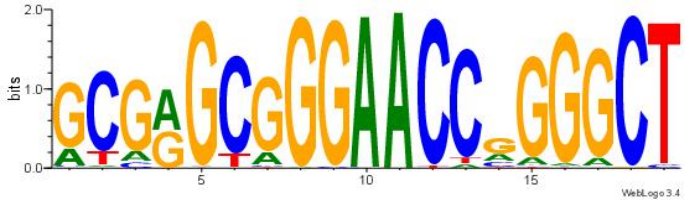

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.131592

Alignment:

```
CAGCTACTCKTATACCCTTG
---CACCTCCCAGACMGGGT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

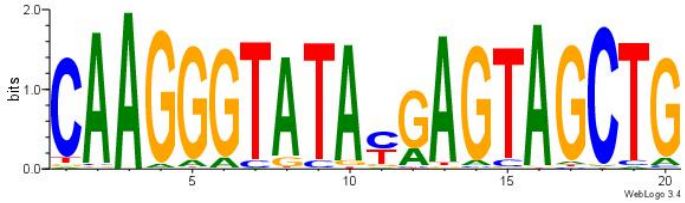

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

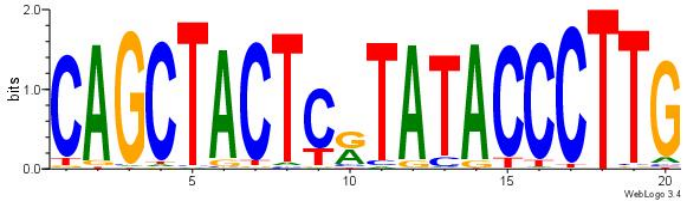

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.131816

Alignment:

```
CACCAGACTCAGGAGCCCAG
--ACCCYGTCTGGGAGGTG-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

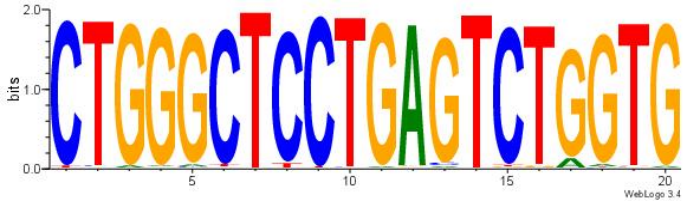

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

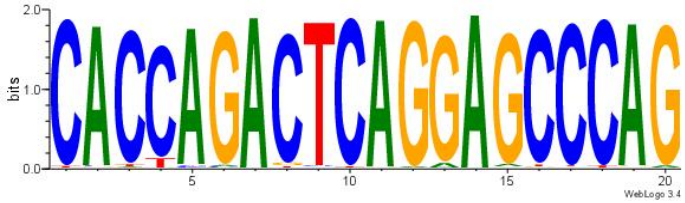

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.131947

Alignment:
GCTGGCCCGCAAGCGCCGCG
---ACCCYGTCTGGGAGGTG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

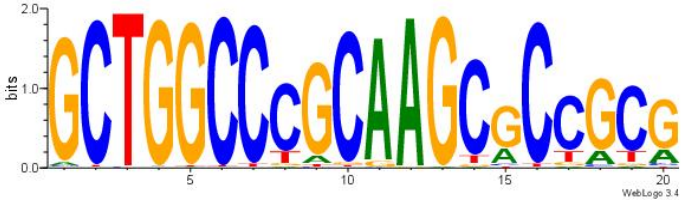

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

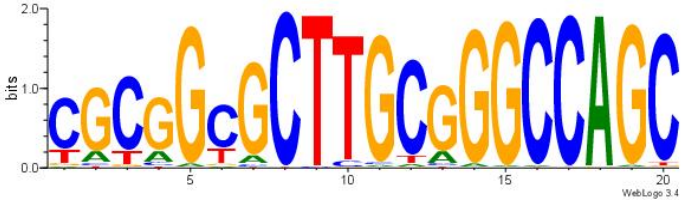

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.132347

Alignment:
MTCCTCCAGACCCCAGAATG
CACCTCCCAGACMGGGT---

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

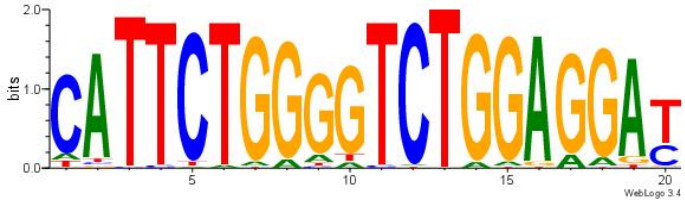

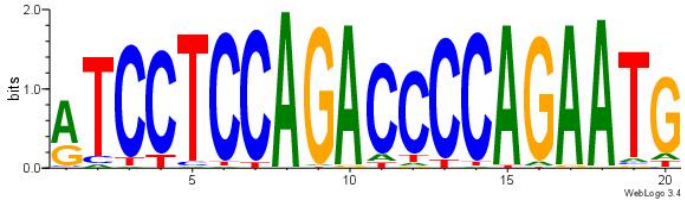

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.13244

Alignment:

```
CCACCACAGCTCAAGGAGGC
--ACCCYGTCTGGGAGGTG-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

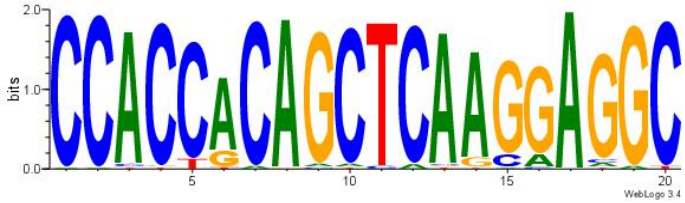

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

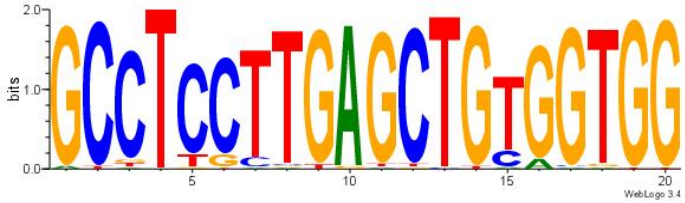

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.132572

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--CACCTCCCAGACMGGGT
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

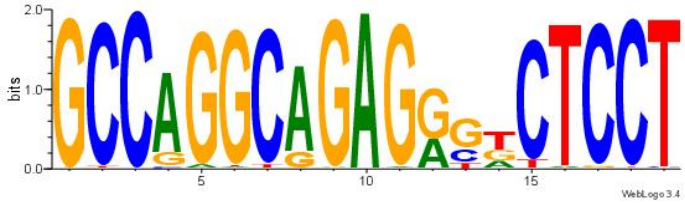

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

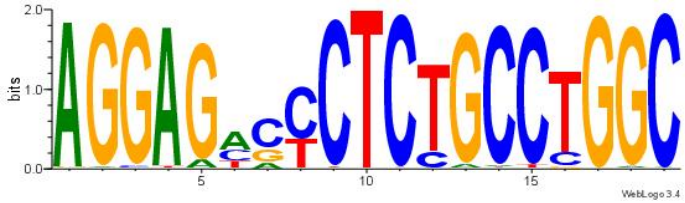

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.133011

Alignment:
AAGCTGAGGGAGCCGGCTCC
CACCTCCCAGACMGGGT---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

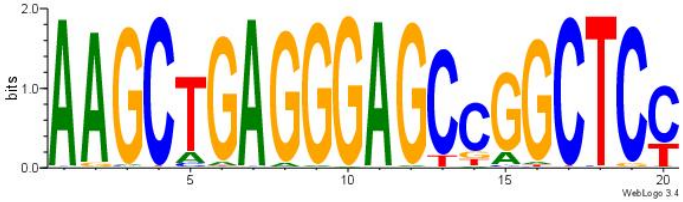

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

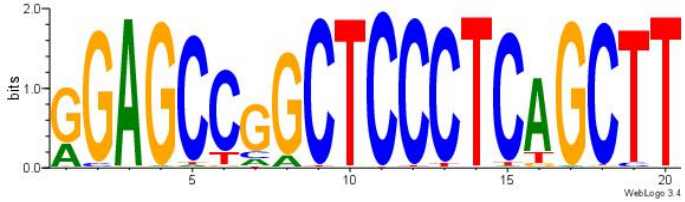

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.133654

Alignment:
CMTAGYACAGTGCCTGGCAC
CACCTCCCAGACMGGGT---

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

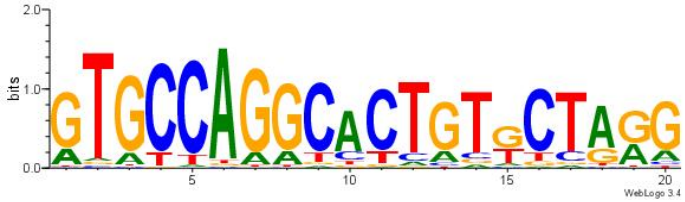

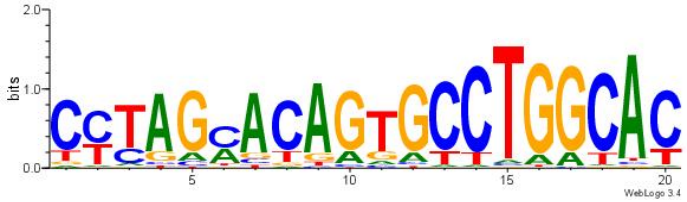

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.134423

Alignment:

```
TYTGTCMTTTTGTGACTGGC
--ACCCYGTCTGGGAGGTG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

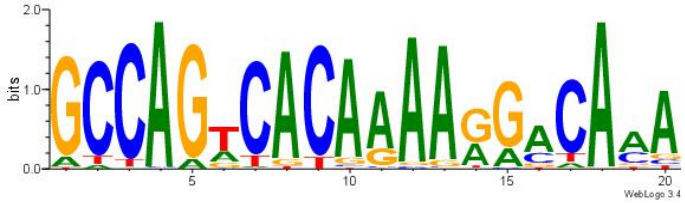

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

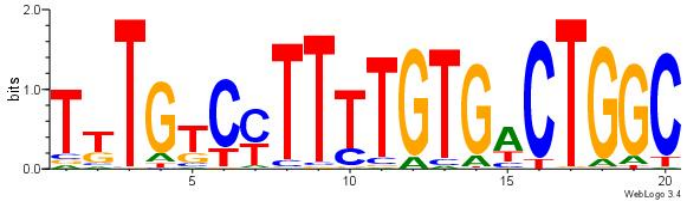

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.134612

Alignment:

```
ATTGATMKCCAGGGTTGATT
---CACCTCCCAGACMGGGT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

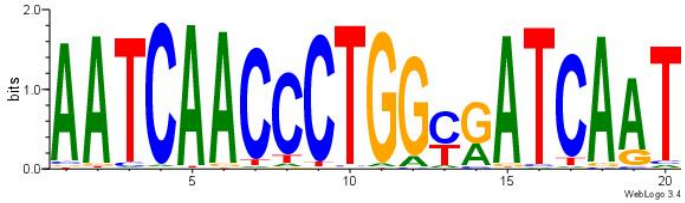

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

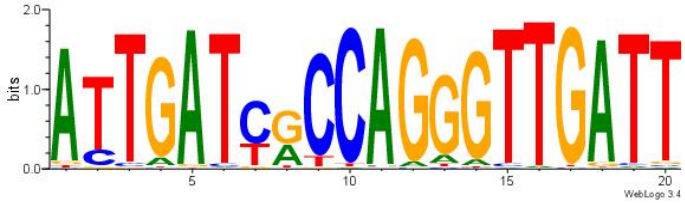

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.134645

Alignment:
ATACAATGGGGGTACAGRC
ACCCYGTCTGGGAGGTG--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

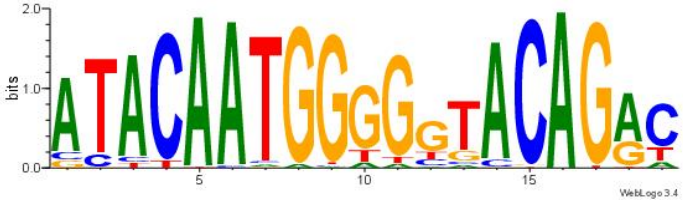

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

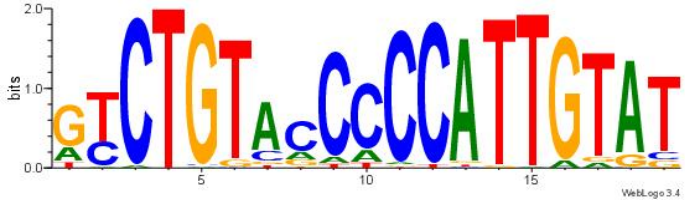

Dataset #: 1 Motif ID: 96 Motif name: Motif 96

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

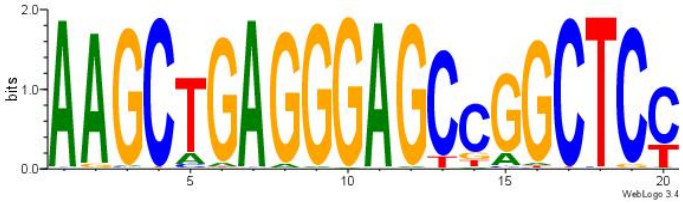

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

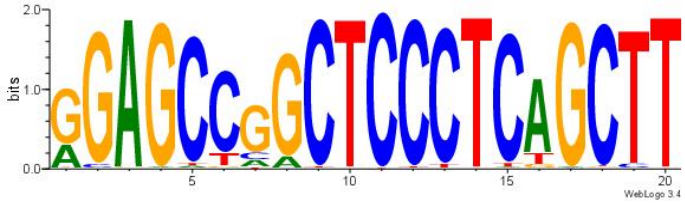

Best Matches for Motif ID 96 (Highest to Lowest)

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0900694

Alignment:

```
AAGCAGGGCGAGGCATTGCC
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

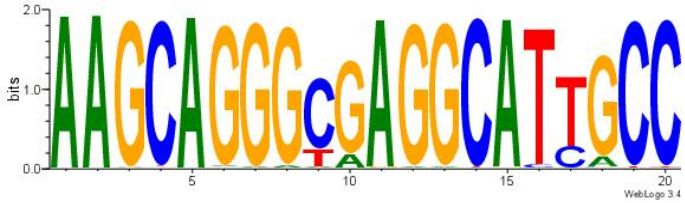

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

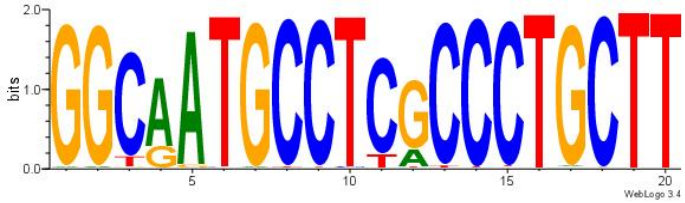

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.11205

Alignment:

CGAGCCTCCCCGAYGAGCGC
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

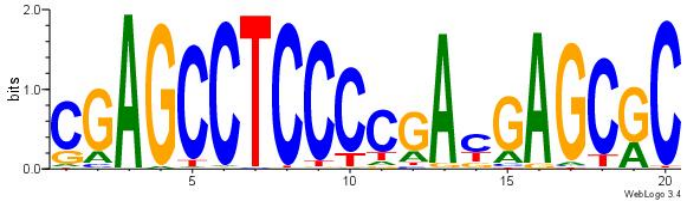

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

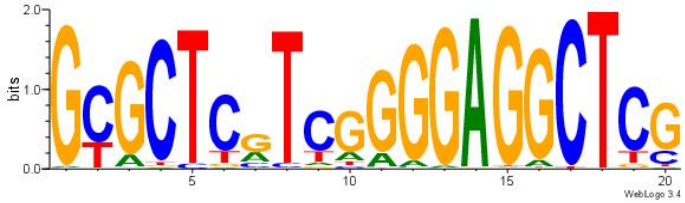

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116847

Alignment:
TAGATAATAGCTCCAGCTTT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

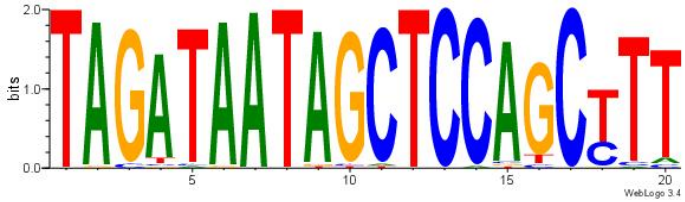

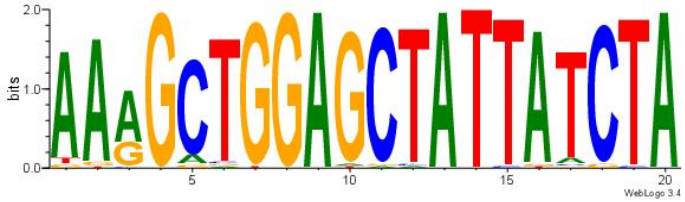

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118204

Alignment:

```
GCACATGTAYCCYAGAACTT
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

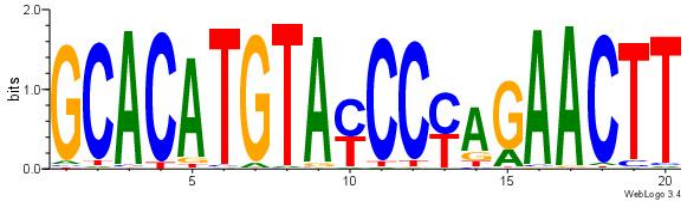

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

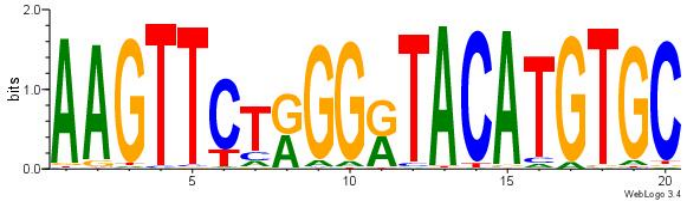

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125147

Alignment:
ACTGTCTTCCACCTCCACAT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

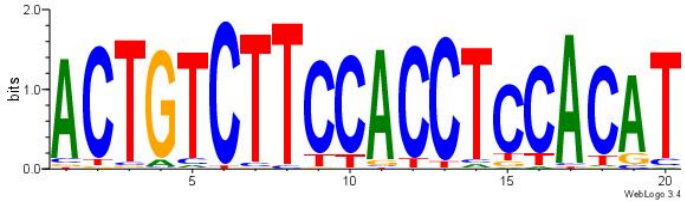

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

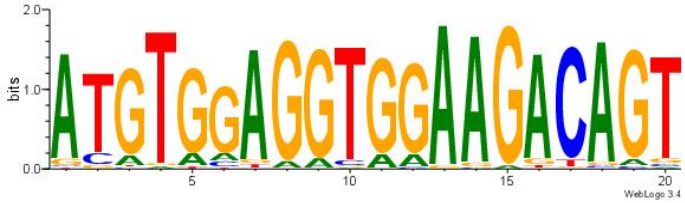

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.126225

Alignment:
GTKTMTATMTACCACATTTT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

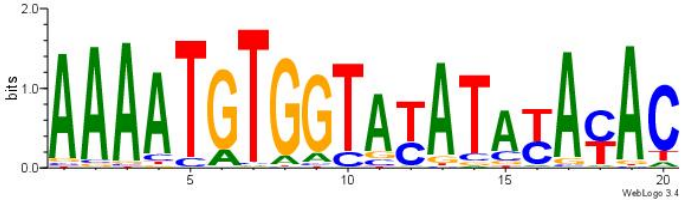

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

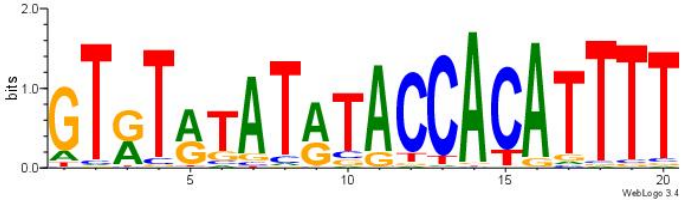

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.127058

Alignment:
ATCTGACAGGAGGYRGAGCT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

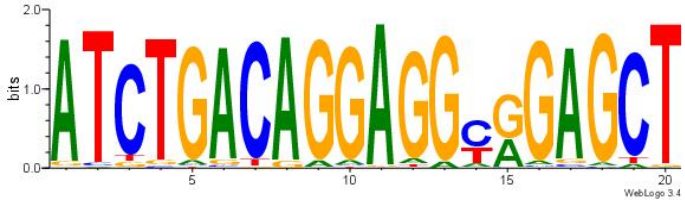

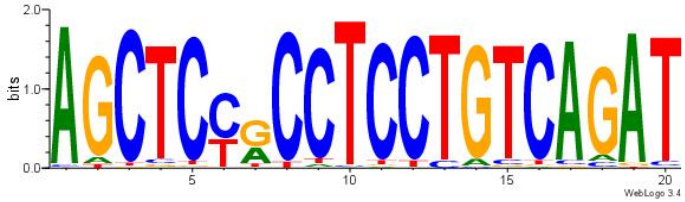

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128248

Alignment:

```
KKCACCTTGATCTTGGACTT
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

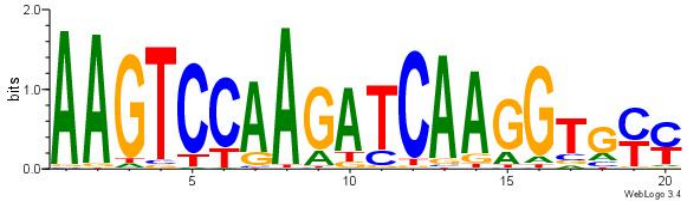

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

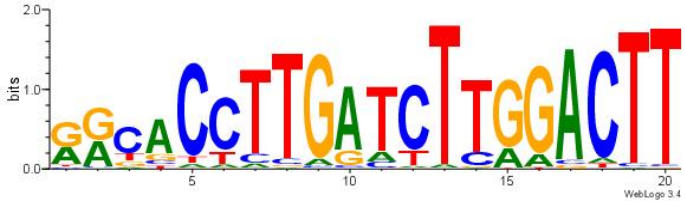

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130003

Alignment:

```
AGCCYCTGGYAACCAYYAWT
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

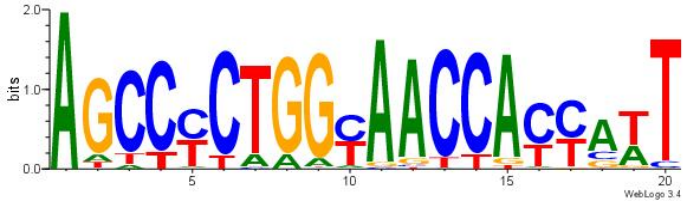

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

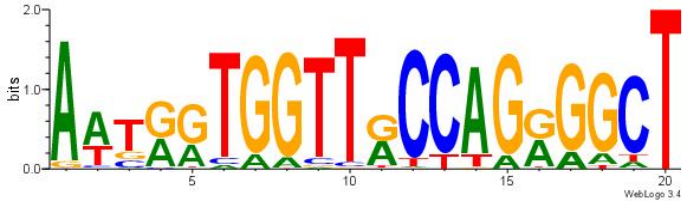

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.132708

Alignment:
KCCGGGCCTTAGCTGCCTTC
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

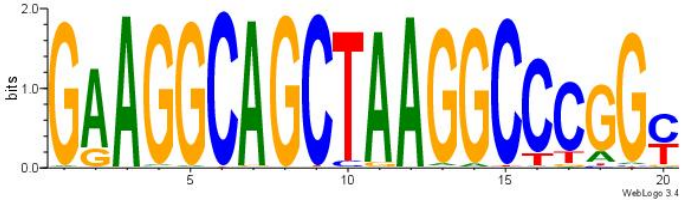

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

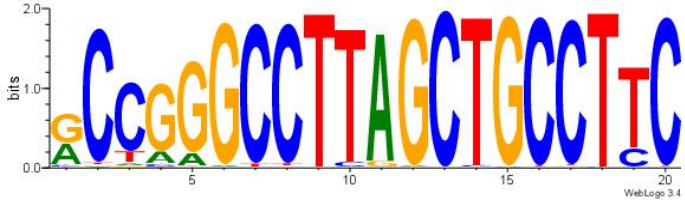

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133195

Alignment:
AGTAGGTGCTCARTAAATRB
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

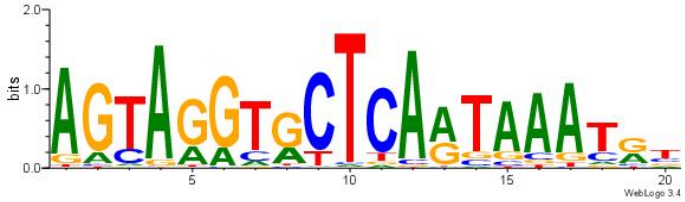

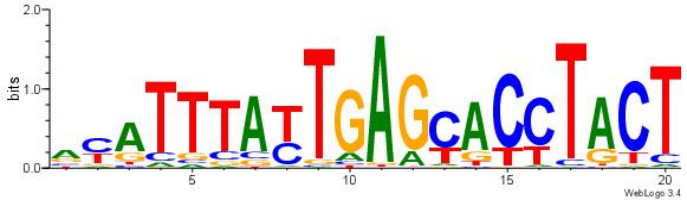

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133461

Alignment:
AACAACASACACTGGGGCCT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

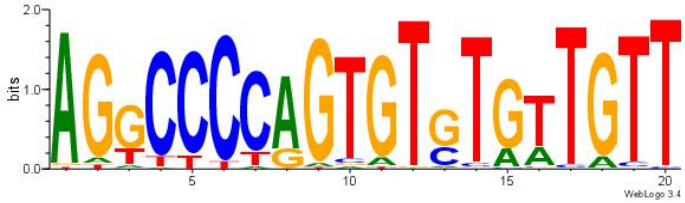

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

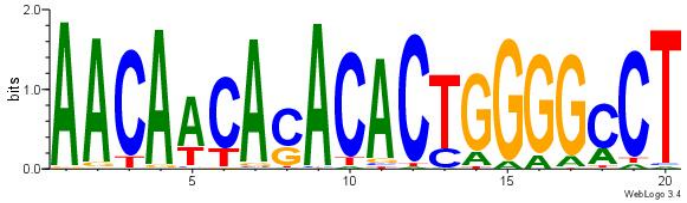

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13378

Alignment:
GTAACACTCACCGCGARGGT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

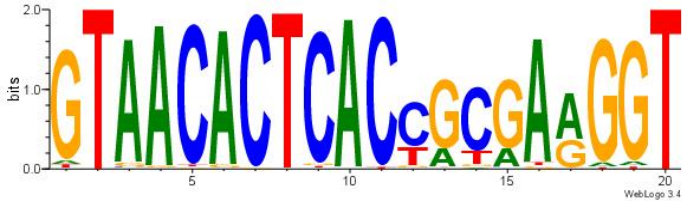

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

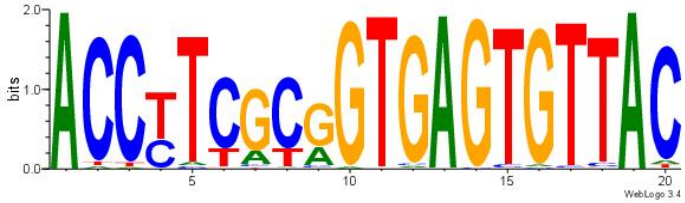

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134382

Alignment:
GCCKCCCCGTCCGGGAGGGA
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

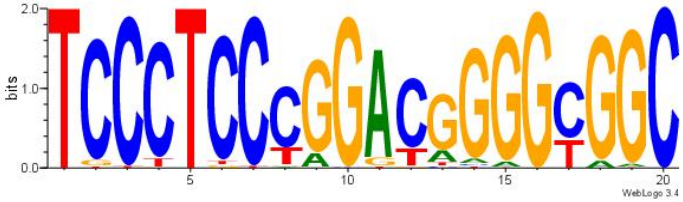

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

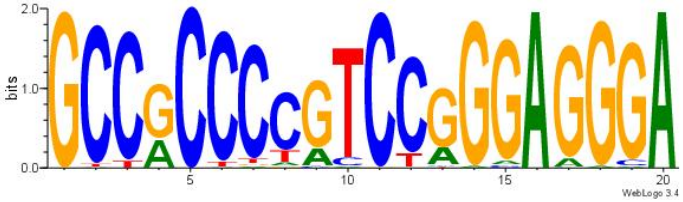

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.135197

Alignment:
CACCAGACTCAGGAGCCCAG
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

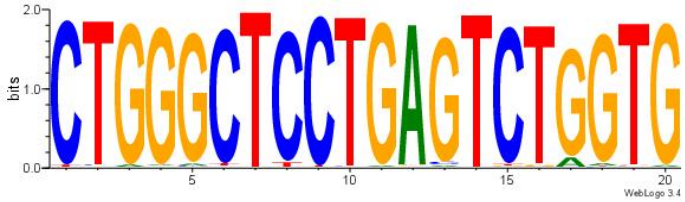

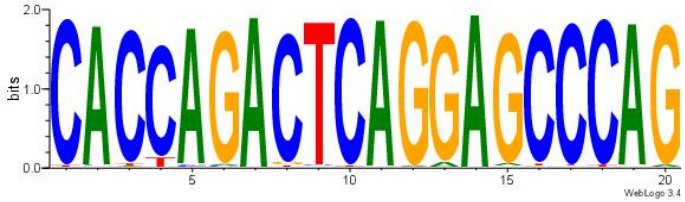

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135274

Alignment:

```
TACCTGAGACTGGGTAATTT
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

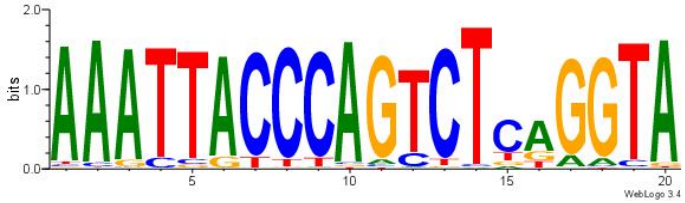

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

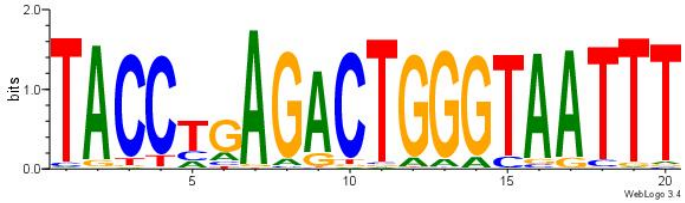

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136321

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

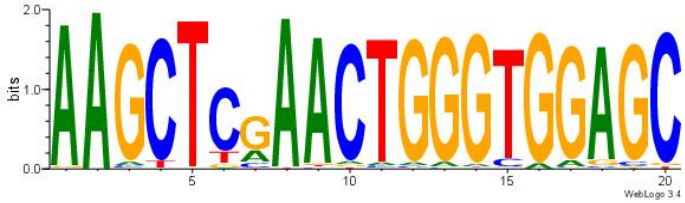

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

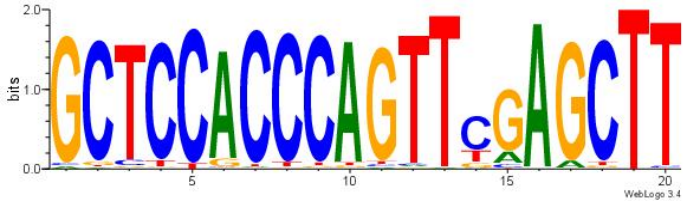

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137418

Alignment:
TTGGTAGGATCCGTGATGCC
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

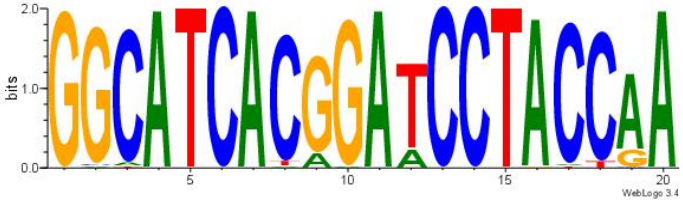

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

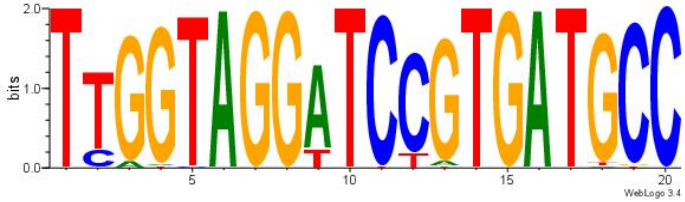

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.137458

Alignment:
TMGGGAGGCTGAGGCAGGAG
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

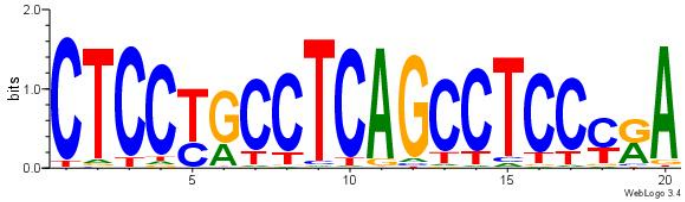

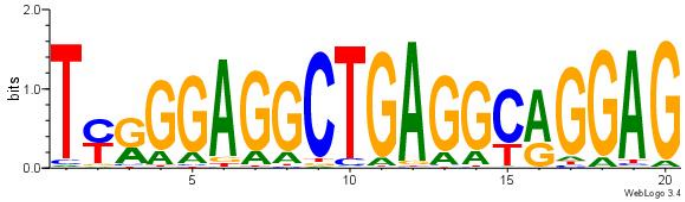

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138365

Alignment:

```
GGATCCACTGGGTGAAGCCA
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

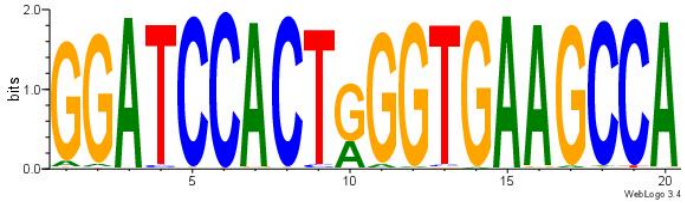

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

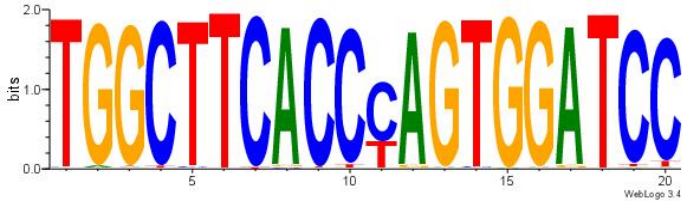

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138546

Alignment:

GTGGCCCTCTTCTCACAGCT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

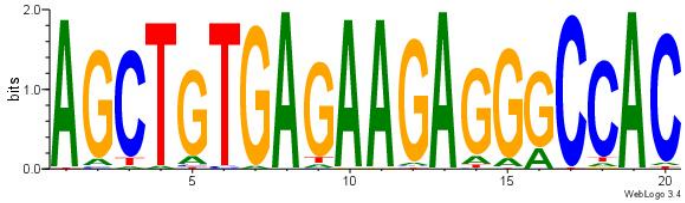

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

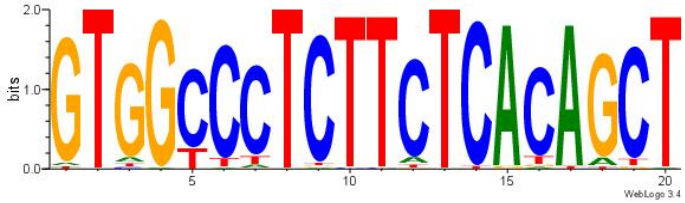

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140396

Alignment:
GAAHCAACCKAAKTGTCCAT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

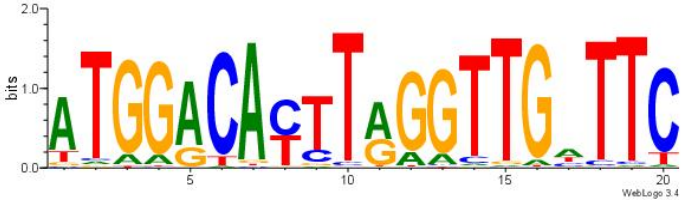

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

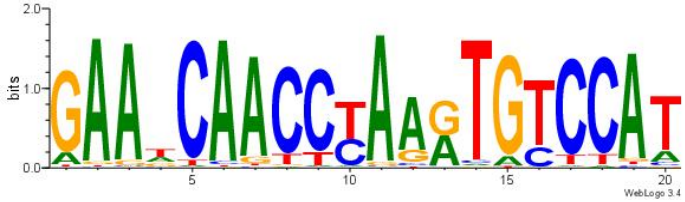

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141069

Alignment:
GGTGGAGCTGCCTGCCAGTC
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

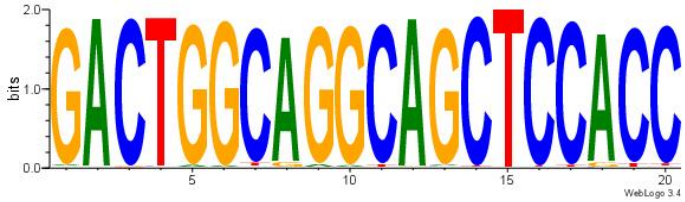

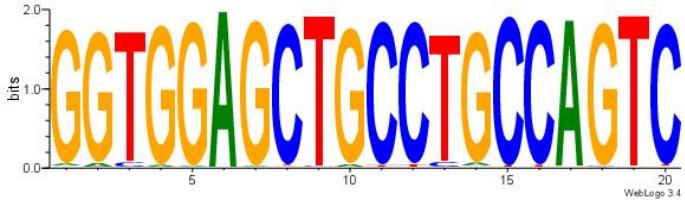

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141252

Alignment:

```
AAGGAACAAACTCCRGACAC
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

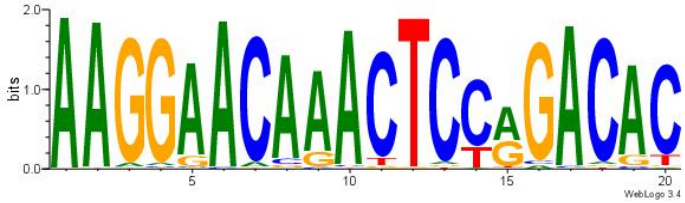

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

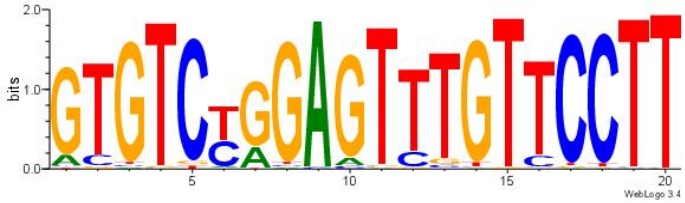

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141988

Alignment:
AATGAKATCATGTCYTTTGC
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

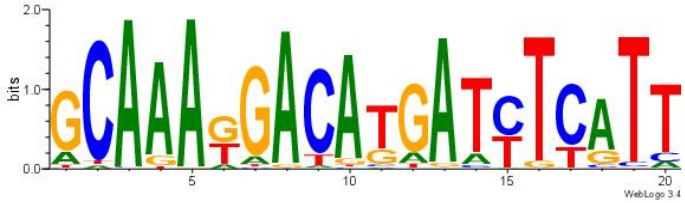

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

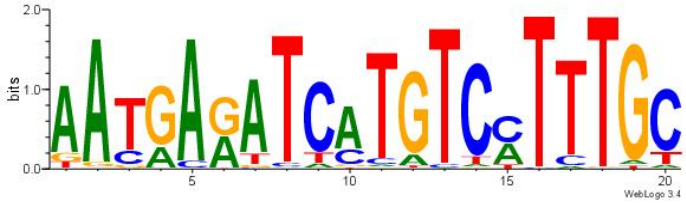

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.143838

Alignment:
TTCAMTCATGATTTGGCTCT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

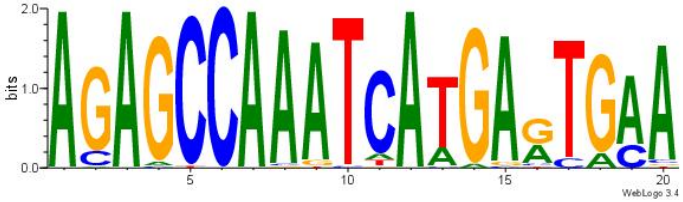

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

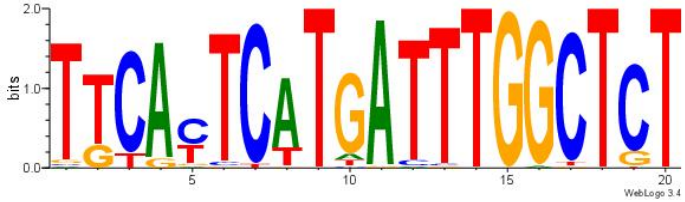

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143983

Alignment:
TTGTCCCACTGGAAGGTCTT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

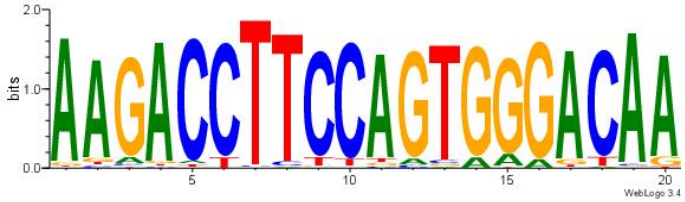

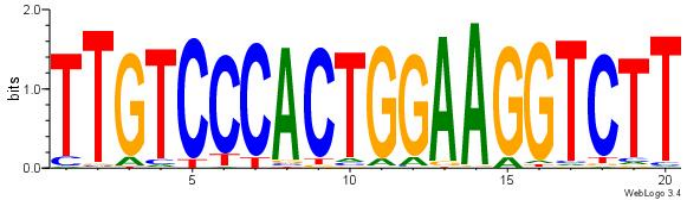

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144959

Alignment:

```
AGAAATCGAGCRCAGCGCCG
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

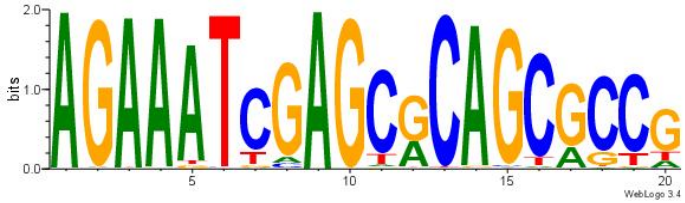

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

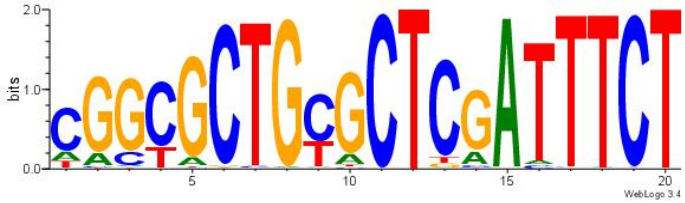

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145549

Alignment:

```
GTGCCAGGCACTGTKCTARG
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

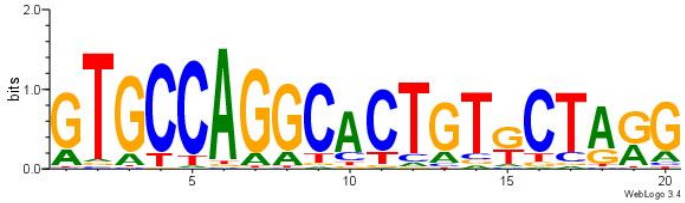

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

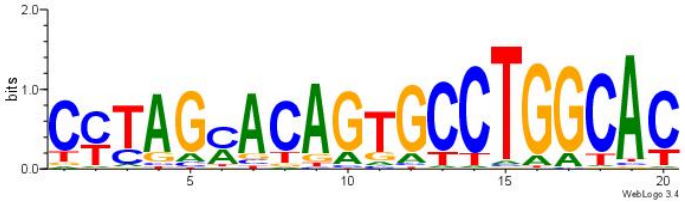

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145926

Alignment:
ARCTCCTGKSCTCAAGKGAT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

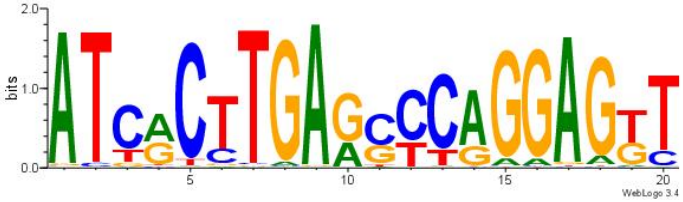

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

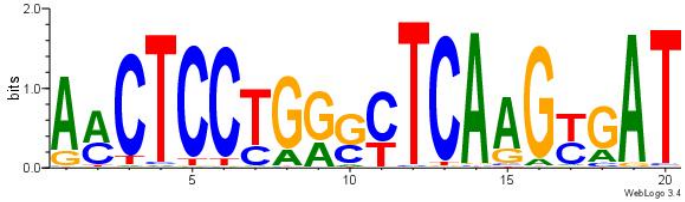

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146009

Alignment:
AGTGAGAACATRYRRTRTTT
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

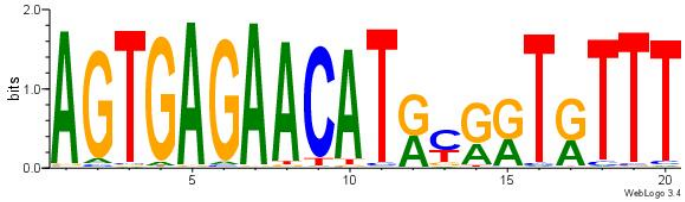

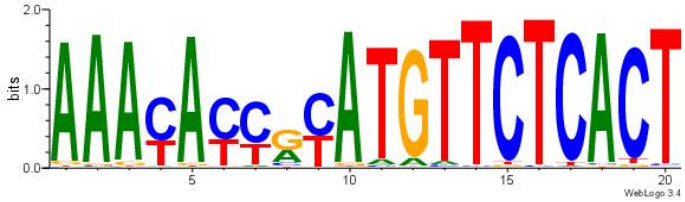

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147699

Alignment:
CAAGTTGACACATAAAATTA
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

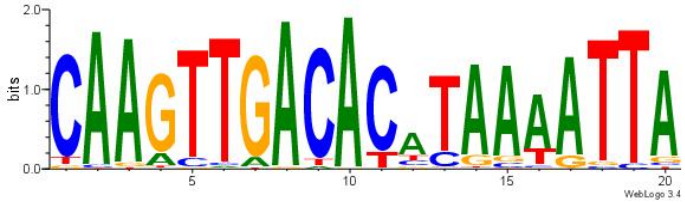

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

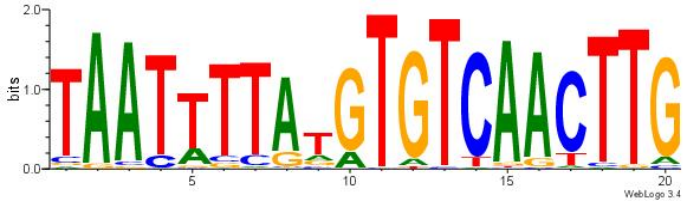

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148801

Alignment:
ACACATCACAAAGCAGTTTC
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

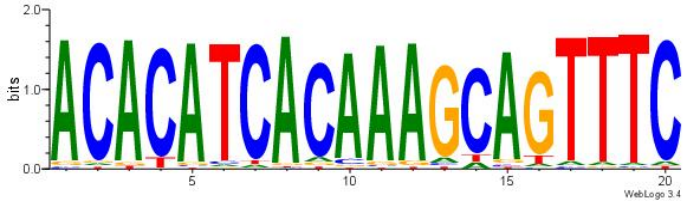

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

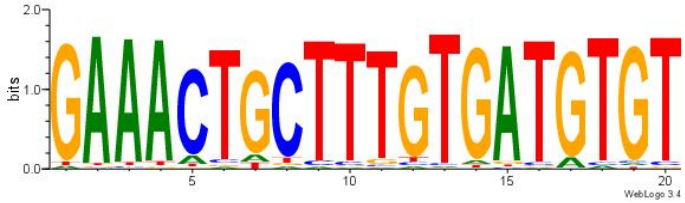

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150042

Alignment:
CAAGGGTATAYGAGTAGCTG
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

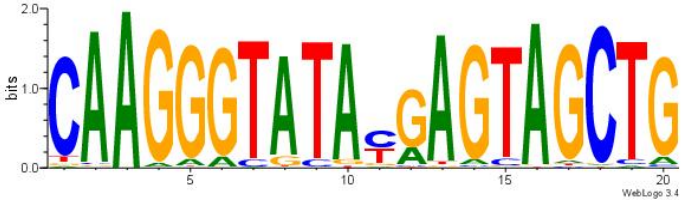

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

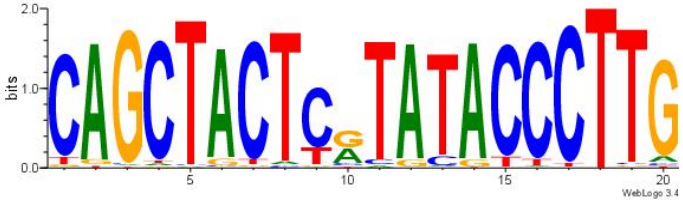

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150647

Alignment:
CAAGCCTSKGCAATGGCAGG
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

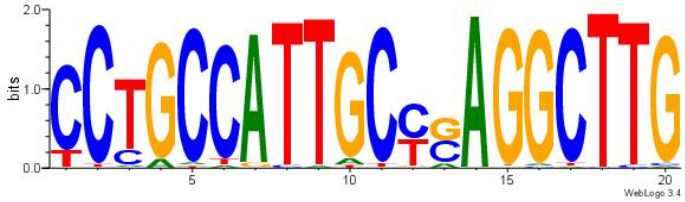

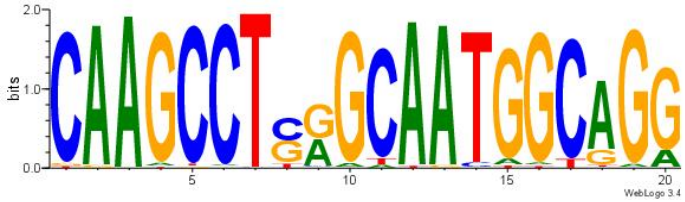

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151981

Alignment:

```
CTCCAGKTMCATCCATGTTG
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

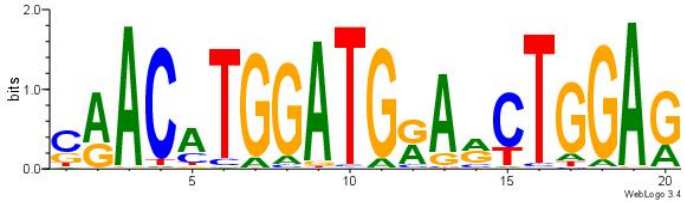

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

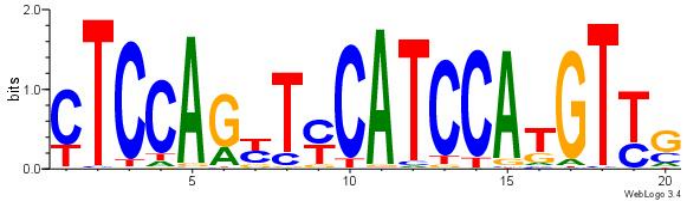

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152558

Alignment:

```
CTTGCCCAAGGTCACACAGC
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

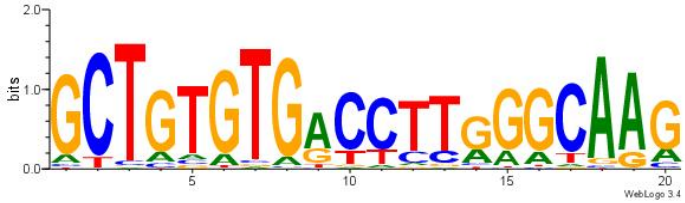

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

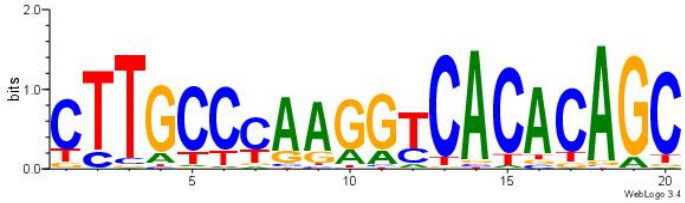

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153307

Alignment:
ATGGAATAYTATTCAGCCAT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

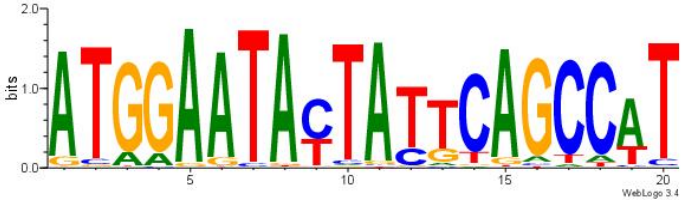

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

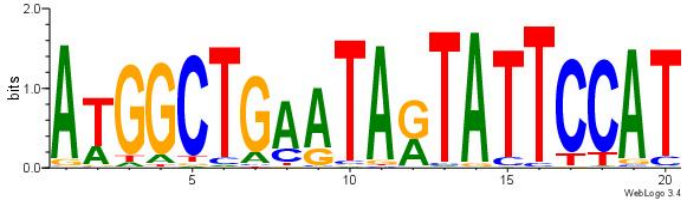

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153649

Alignment:
AAATTAGGCCAATTAATAAC
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

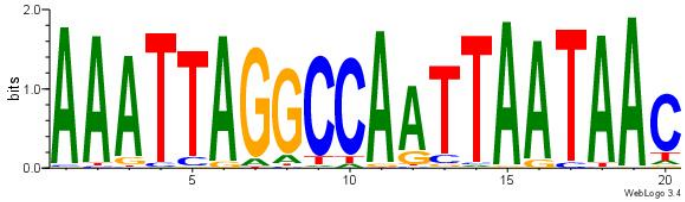

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15417

Alignment:

```
MTCCTCCAGACCCCAGAATG
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

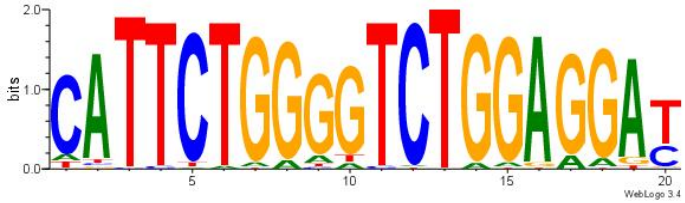

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

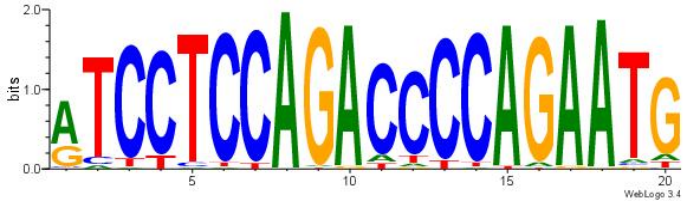

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154201

Alignment:

GCCAATTTCTCCCATTTGGA

GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

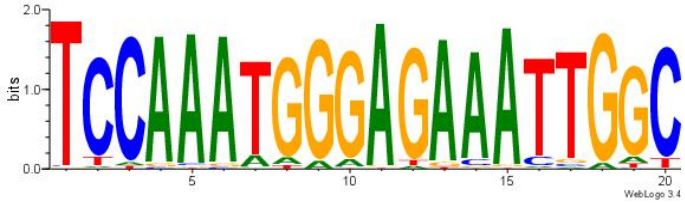

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

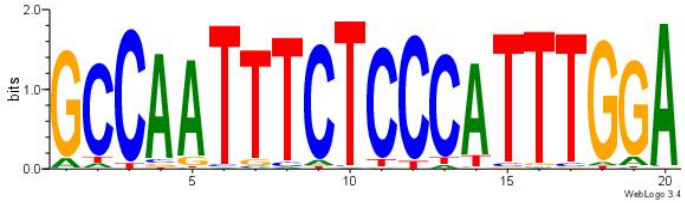

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154269

Alignment:
GGGCTCCCACAGTGCAGCGG
GGAGCCGGCTCCCTCAGCTT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

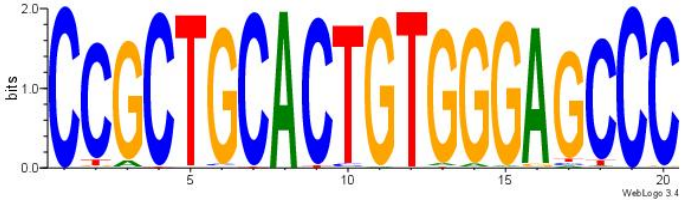

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

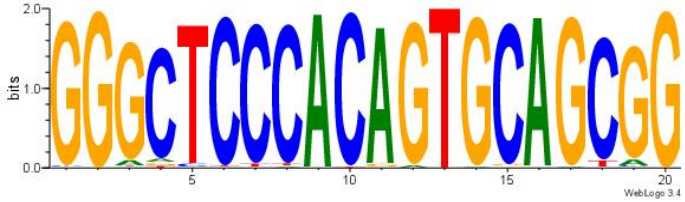

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155121

Alignment:
AATCAACCCTGGYRATCAAT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

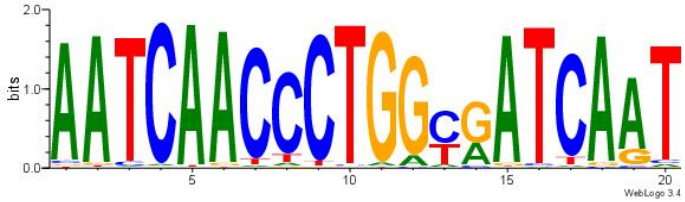

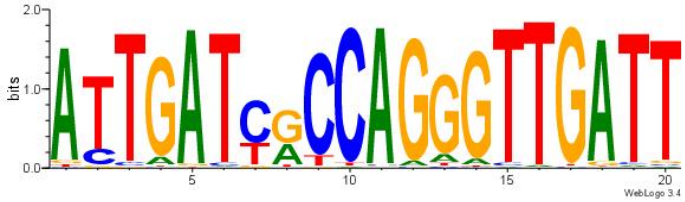

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155147

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

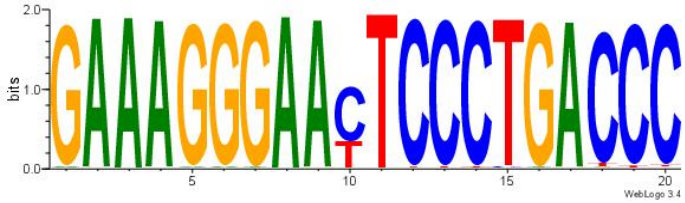

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

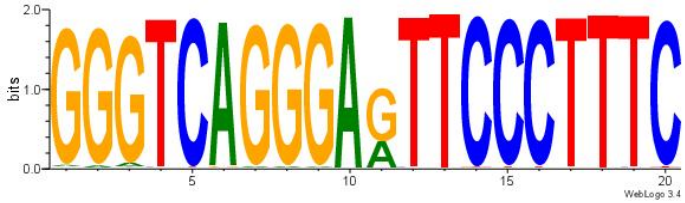

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155919

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

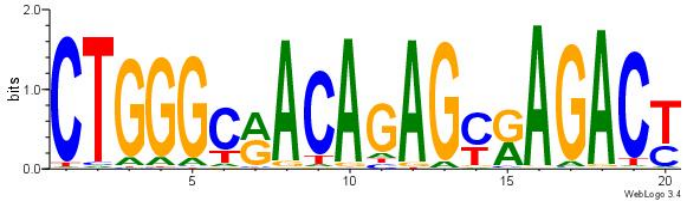

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

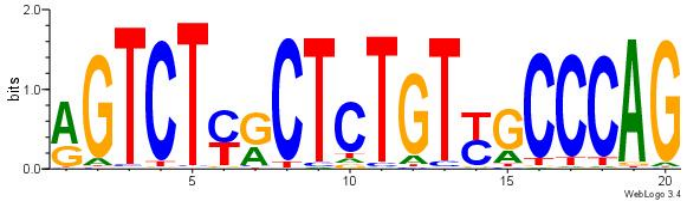

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156564

Alignment:
AGGTCCTTCAGGAGGTATTC
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

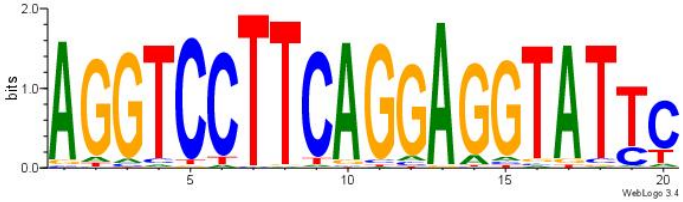

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

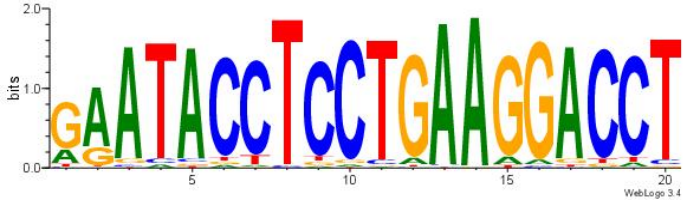

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156674

Alignment:
CCCATGCAAGTCYRAAATCC
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

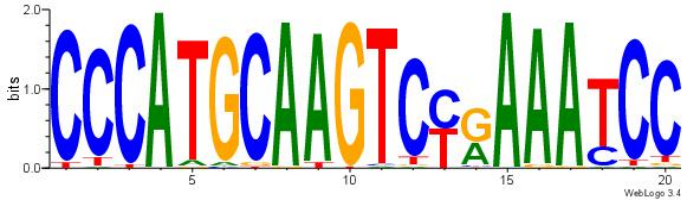

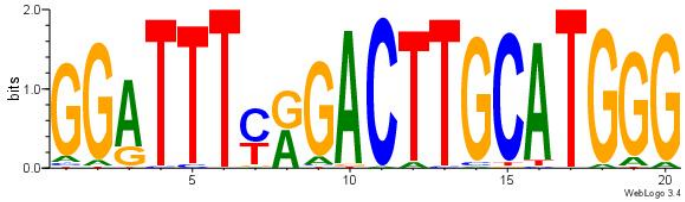

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15698

Alignment:

```
TCTGGAGTGGACCTCCAGCA
GGAGCCGGCTCCCTCAGCTT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

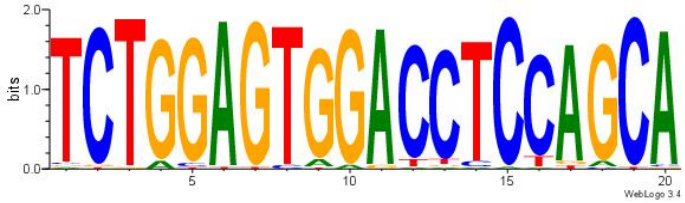

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

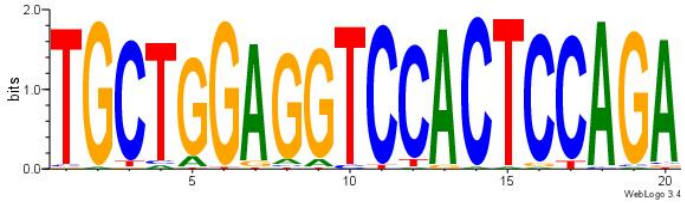

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157032

Alignment:

```
ACCTGGAAAATCGGGTCACT
AAGCTGAGGGAGCCGGCTCC
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

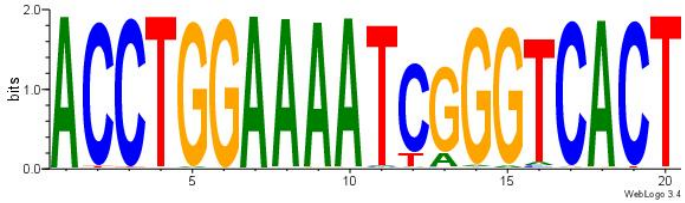

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

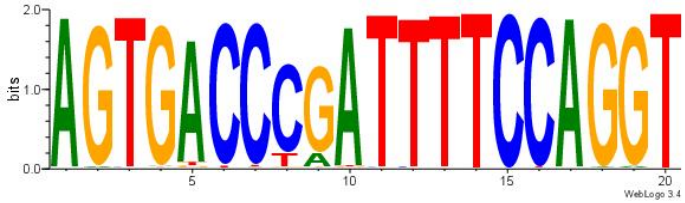

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158032

Alignment:
AAAATCACAAGCATTCCTAT
AAGCTGAGGGAGCCGGCTCC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

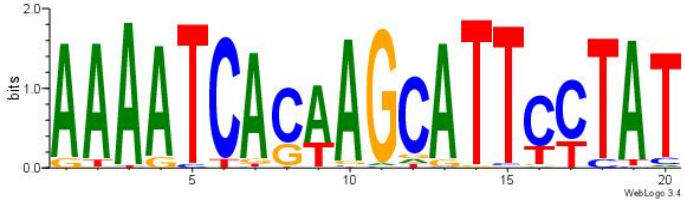

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

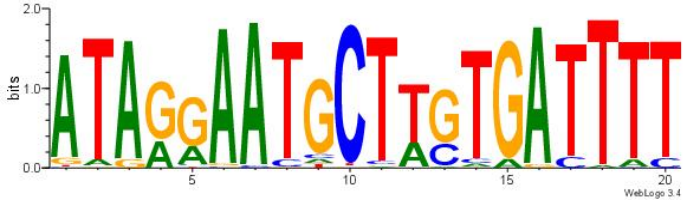

Dataset #: 1 Motif ID: 97 Motif name: Motif 97

Original motif Consensus sequence: AAGATGGCCGAAT

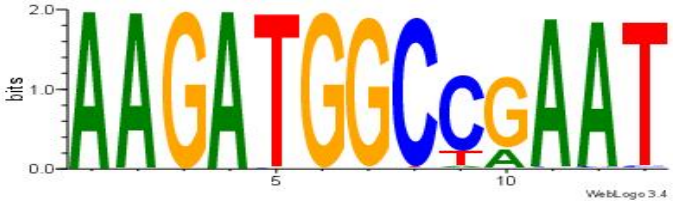

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

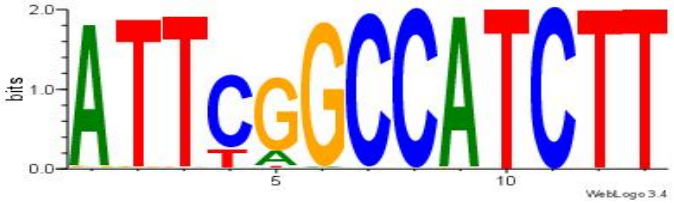

Best Matches for Motif ID 97 (Highest to Lowest)

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0664224

Alignment:

```
AAGACGGGTGATTTCTG
----AAGATGGCCGAAT
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

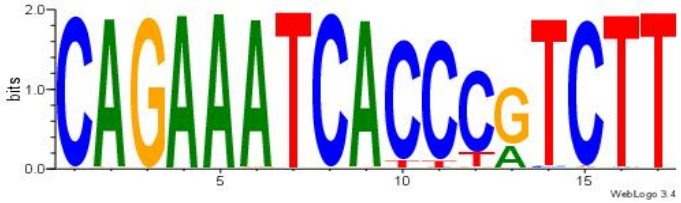

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

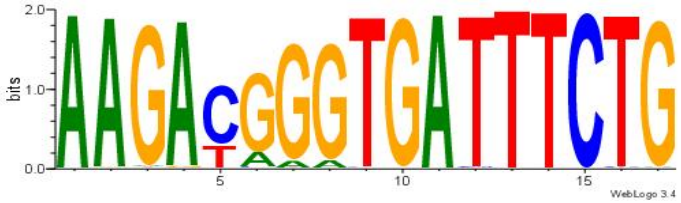

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0712075

Alignment:

```
AAATTAGGCCAATTAATAAC
--ATTCGGCCATCTT-----
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

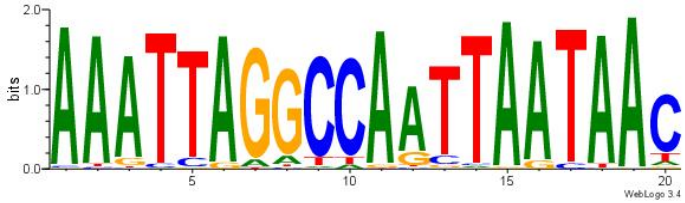

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0758335

Alignment:

```
GGGTGCAGGMGGGCTGAGT
------AAGATGGCCGAAT
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

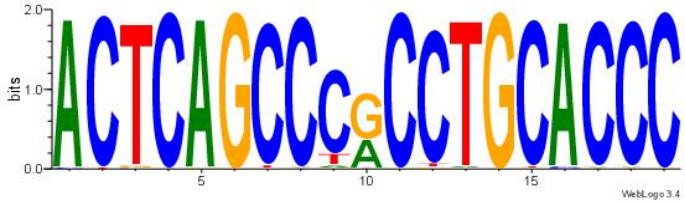

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

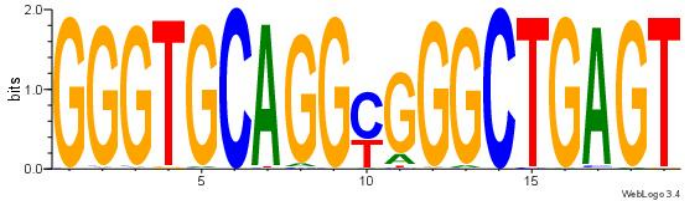

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0829089

Alignment:

```
CCCYAATACTGCGCTTTTC
-----ATTCGGCCATCTT-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

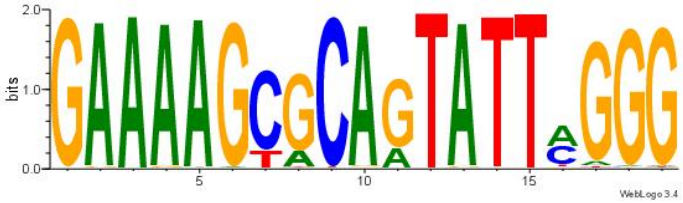

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

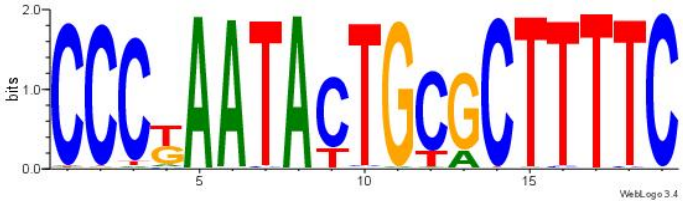

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0840391

Alignment:
CATTCTGGGGTCTGGAGGAY
-ATTCGGCCATCTT------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

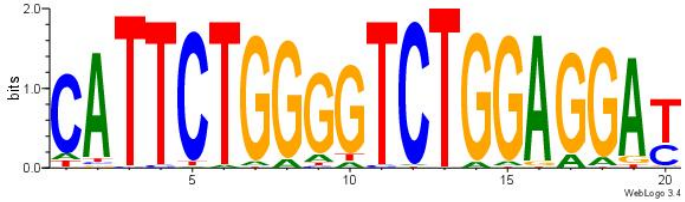

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

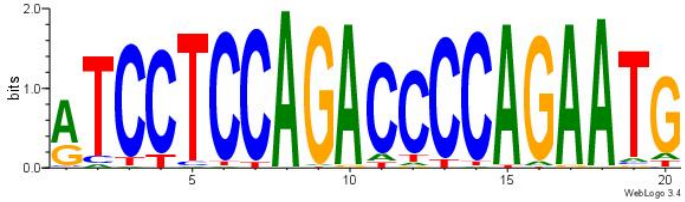

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.0843051

Alignment:
GGCAATGCCTCGCCCTGCTT
-------ATTCGGCCATCTT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

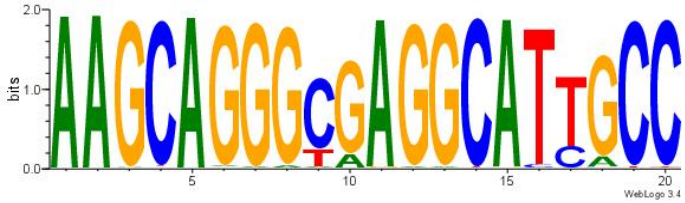

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

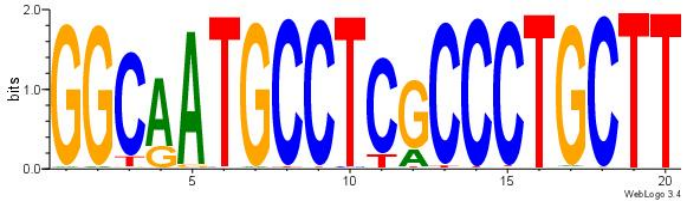

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0871083

Alignment:

```
TGGATGGATGGATGGAT
AAGATGGCCGAAT----
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

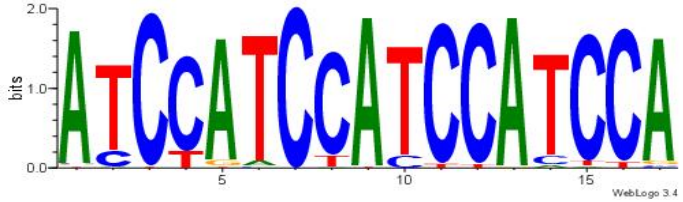

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0880892

Alignment:

```
TAGATAATAGCTCCAGCTTT
------ATTCGGCCATCTT-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

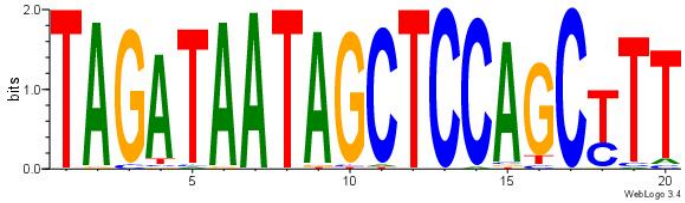

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

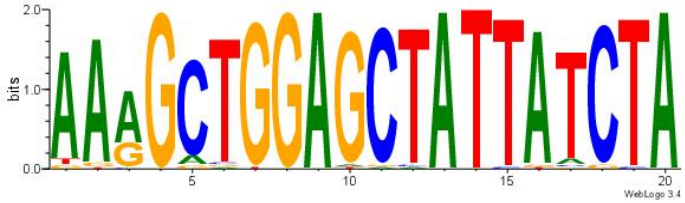

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0905047

Alignment:
GCCAATTTCTCCCATTTGGA
-----ATTCGGCCATCTT--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

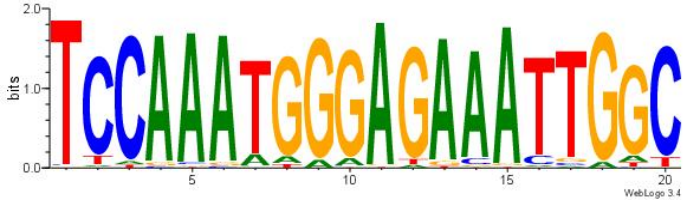

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

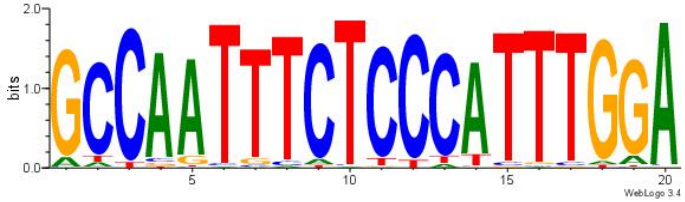

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0941121

Alignment:
CAACATGGATGRARCTGGAG
-AAGATGGCCGAAT------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

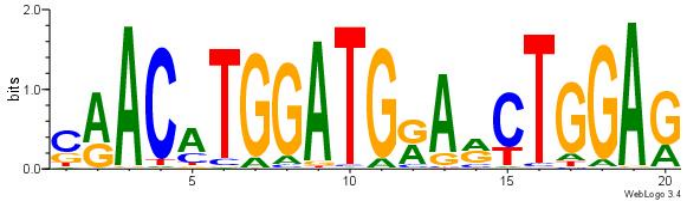

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

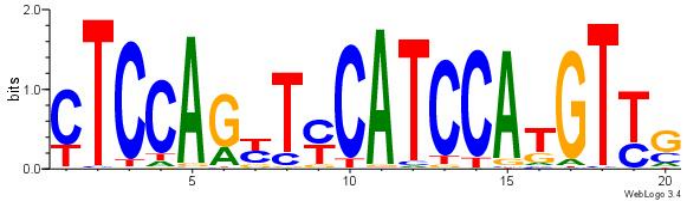

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0960268

Alignment:

```
ATGATCCAGCAATYCCACTH
---ATTCGGCCATCTT----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

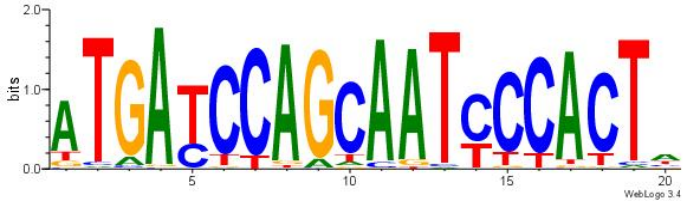

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

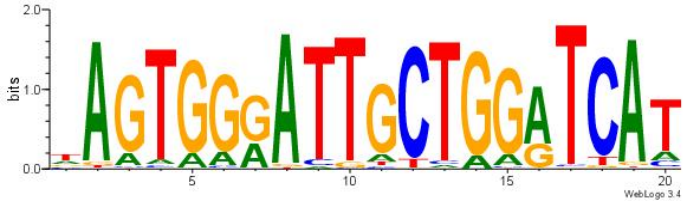

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0990856

Alignment:

```
CCTTGGCCAGCCCAGAAAG
ATTCGGCCATCTT------
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

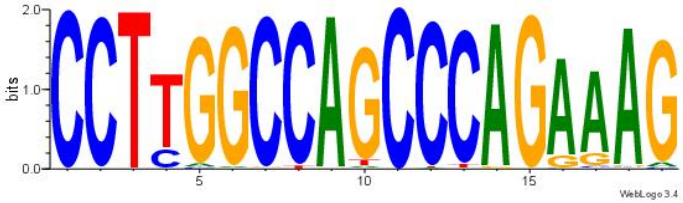

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

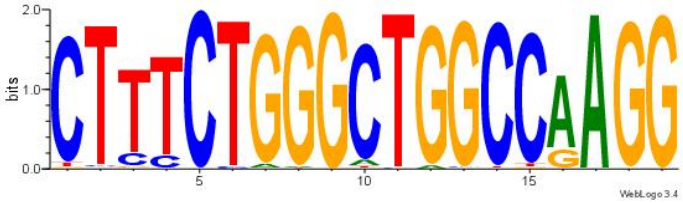

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 13
Similarity score: 0.0996355

Alignment:
CTCCTGACCTCGTGATC
ATTCGGCCATCTT----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

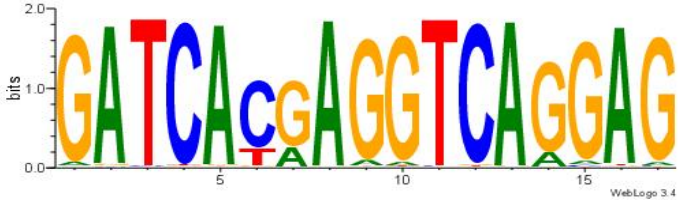

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

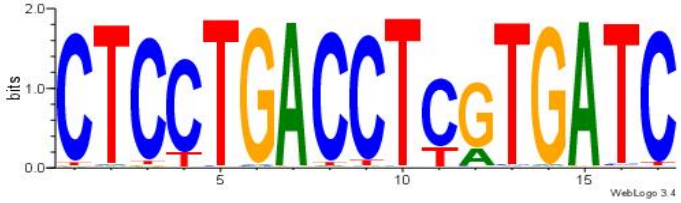

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.100664

Alignment:
CCTAGATTTCAGARGATGT
--AAGATGGCCGAAT----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

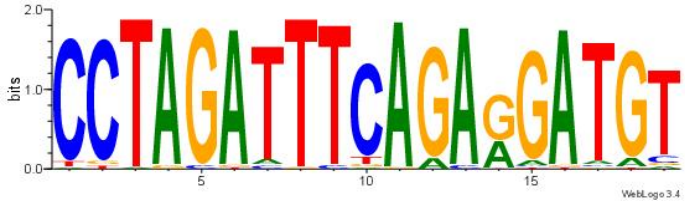

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

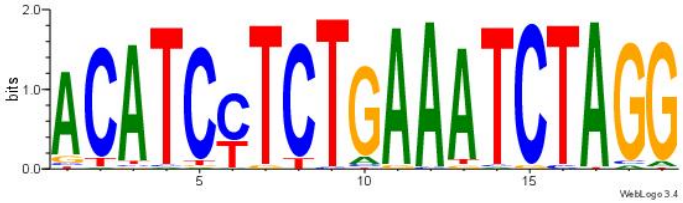

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.101018

Alignment:

```
AAATTACCCAGTCTCAGGTA
--ATTCGGCCATCTT-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

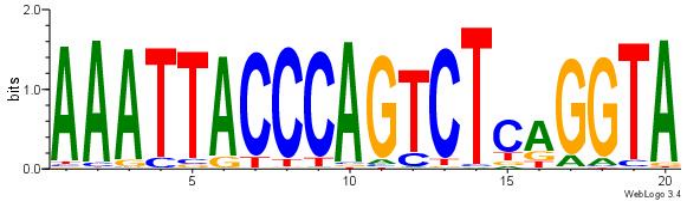

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

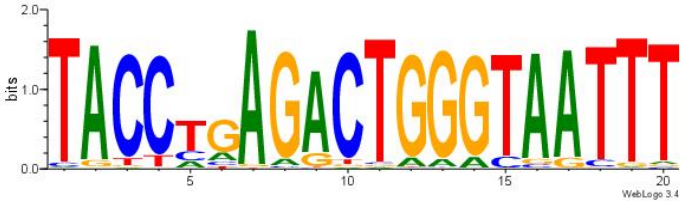

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.102293

Alignment:

```
ATCATTCTTATGCCTTTG
---ATTCGGCCATCTT--
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

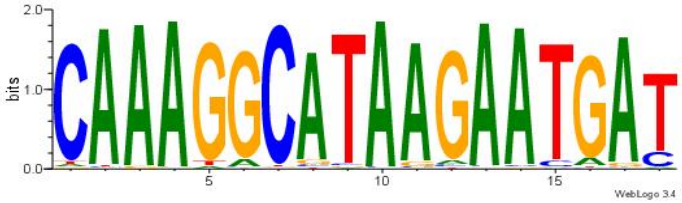

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

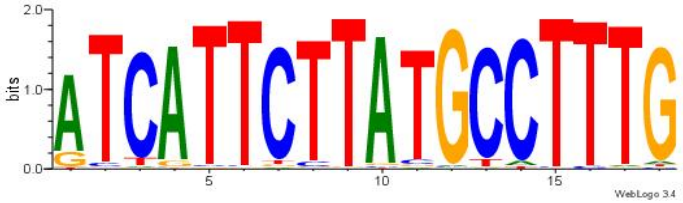

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.10248

Alignment:
AAGTCTCCCAATTACAACT
-ATTCGGCCATCTT-----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

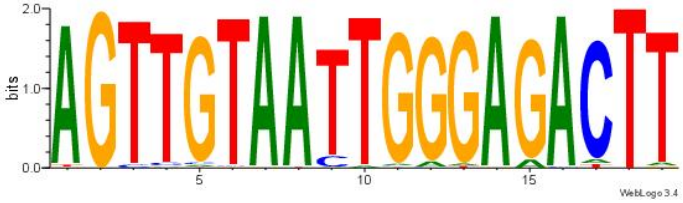

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

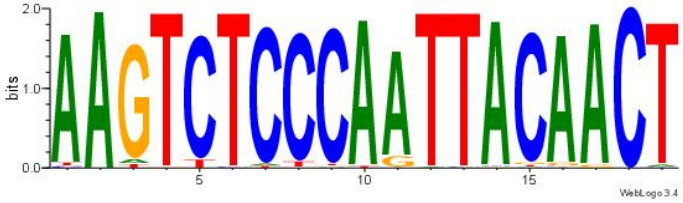

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.10272

Alignment:
ACCCAATWTGTAGTCTTTTA
----ATTCGGCCATCTT---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

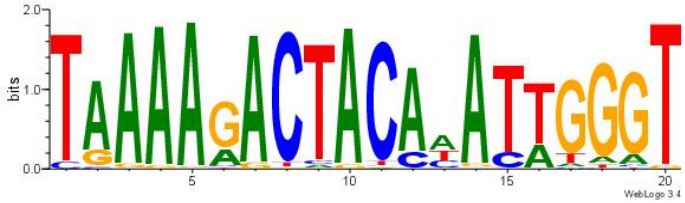

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

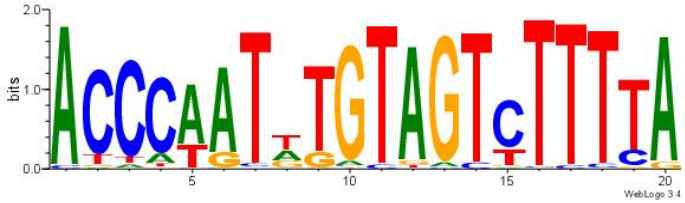

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.10295

Alignment:

```
ATAAAAACTTGCTGGTTTT
----AAGATGGCCGAAT--
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

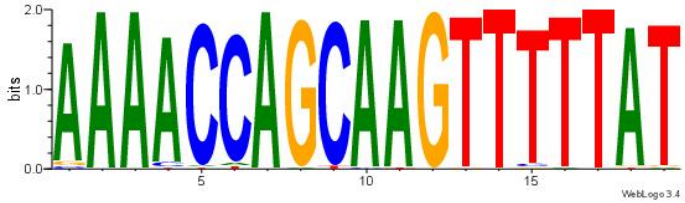

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

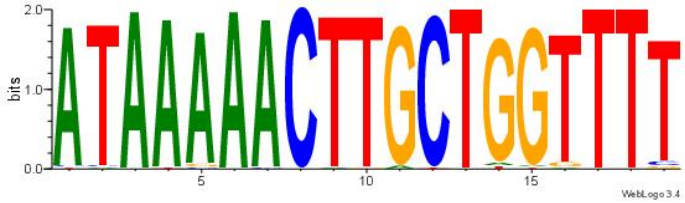

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.103204

Alignment:

```
TGTTATGCCTGAAAGT
-AAGATGGCCGAAT--
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

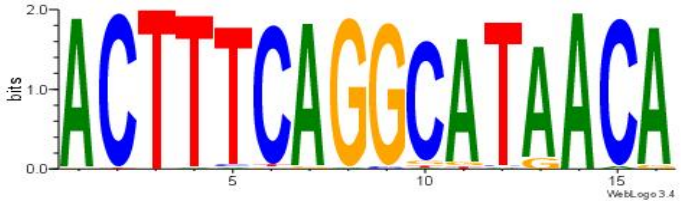

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

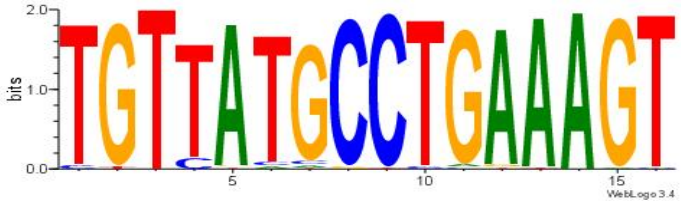

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.103526

Alignment:
TTGAGGAGGCAGTCTG
---ATTCGGCCATCTT

Original motif Consensus sequence: CAGACTGCCTCCTCAA

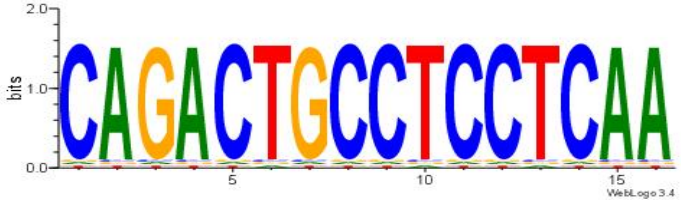

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

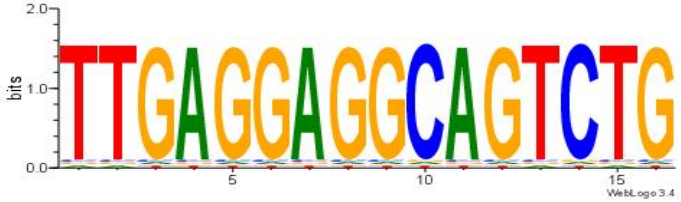

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.10373

Alignment:
CATTAGATTCTCATAGGA
-ATTCGGCCATCTT----

Original motif Consensus sequence: CATTAGATTCTCATAGGA

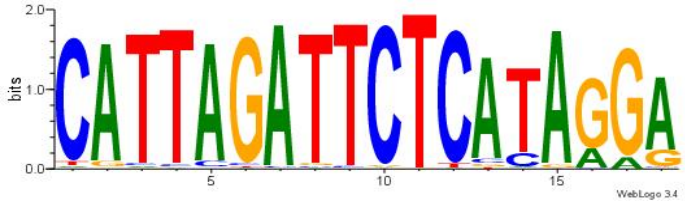

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

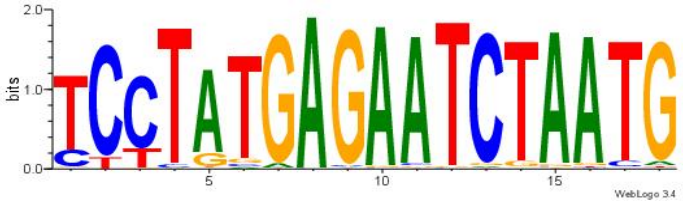

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.104602

Alignment:

```
AAAGTGCCGAGAKTGCAGC
AAGATGGCCGAAT------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

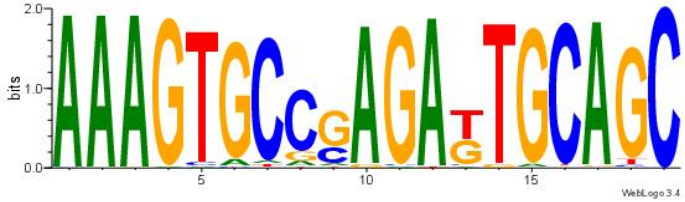

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

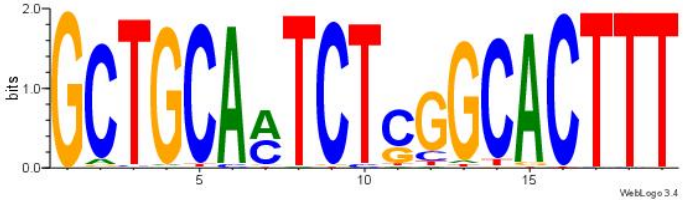

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.105522

Alignment:

```
ATTGGTGTATTTACAATCCC
ATTCGGCCATCTT-------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

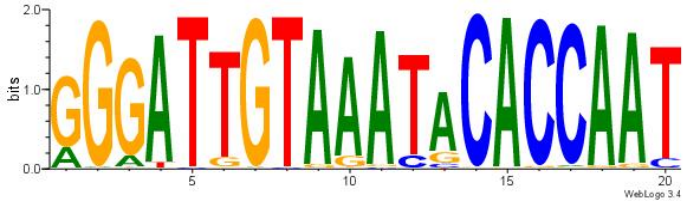

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 13
Similarity score: 0.105935

Alignment:
CCCGAAGCTGCRYRCTCGGT
----AAGATGGCCGAAT---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

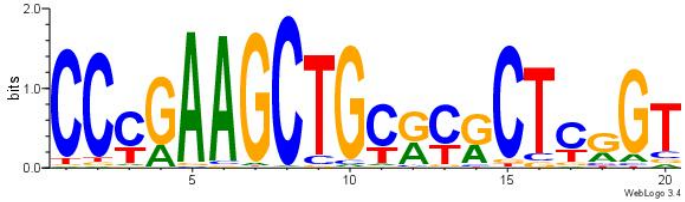

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

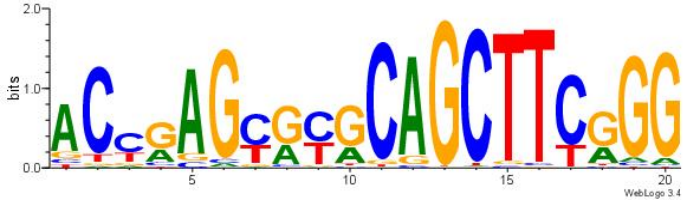

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.106512

Alignment:
AAGCTGAGGGAGCCGGCTCC
-----AAGATGGCCGAAT--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

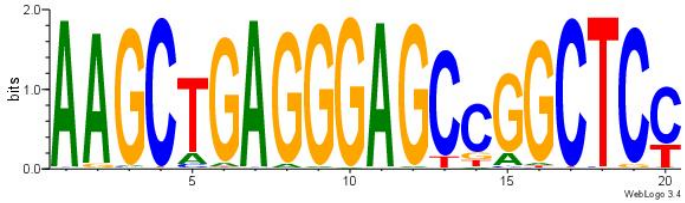

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

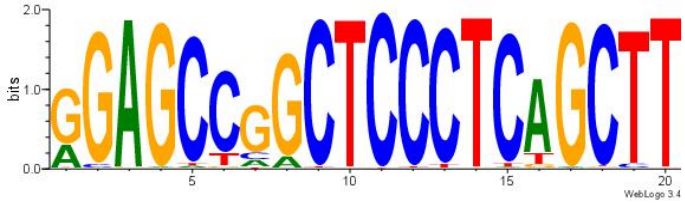

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.106645

Alignment:

```
GAATCCTGGGACAGCCTGT
----ATTCGGCCATCTT--
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

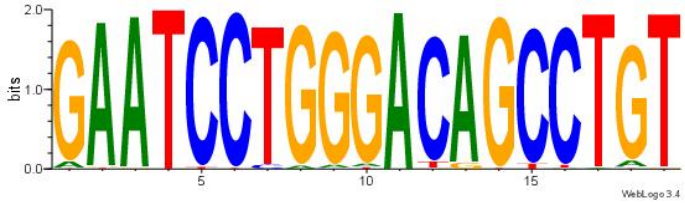

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

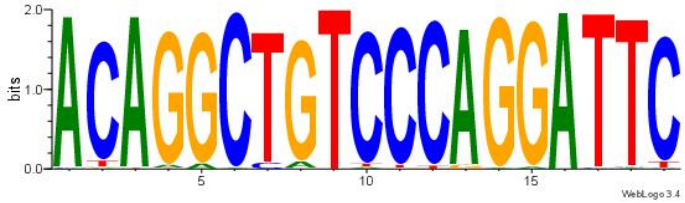

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.107106

Alignment:

```
ATGGCCTATGACYGSTTTG
----AAGATGGCCGAAT--
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

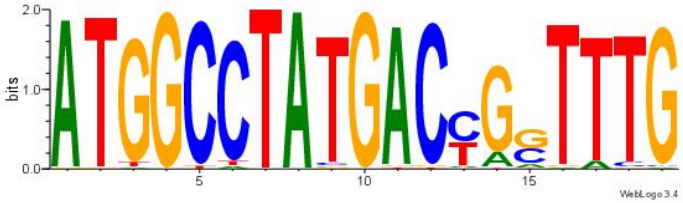

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

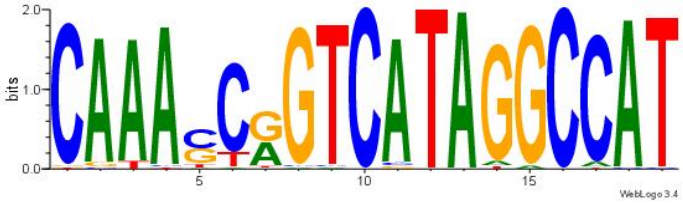

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.107204

Alignment:
CAAGGGTATAYGAGTAGCTG
--AAGATGGCCGAAT-----

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

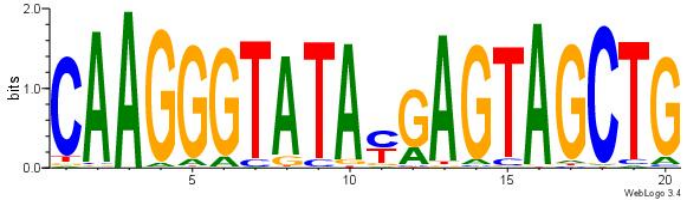

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

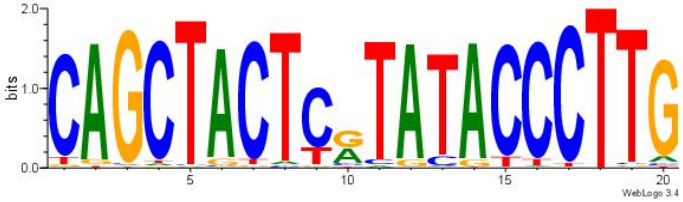

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.107562

Alignment:
CGCCCGGCCAGCCGC
-ATTCGGCCATCTT-

Original motif Consensus sequence: CGCCCGGCCAGCCGC

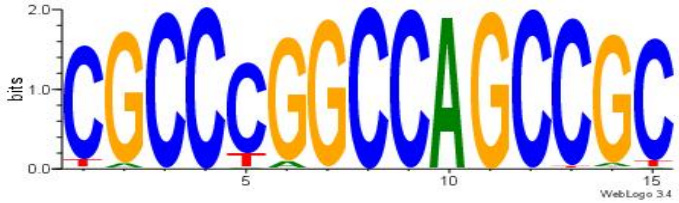

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

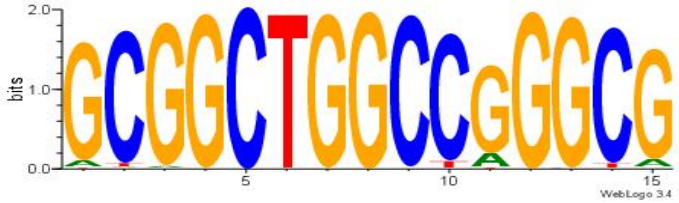

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.107975

Alignment:

```
AAGACCTTCCAGTGGGACAA
AAGATGGCCGAAT-------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

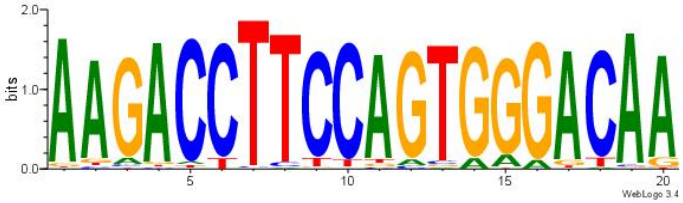

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

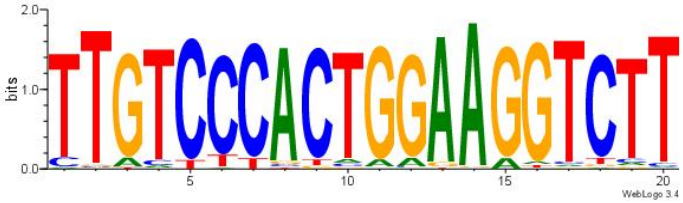

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.10799

Alignment:

```
ACTGTCTTCCACCTCCACAT
--ATTCGGCCATCTT-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

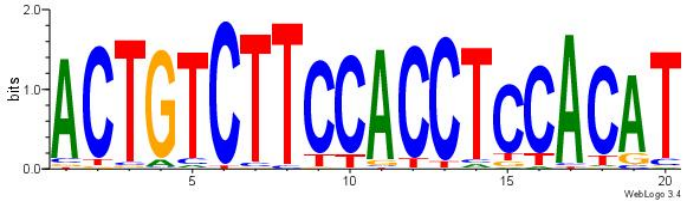

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

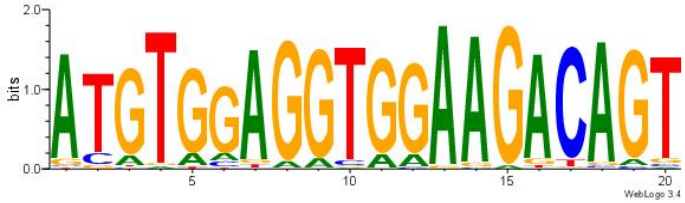

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.108063

Alignment:
CATTATGCTAARTG
-ATTCGGCCATCTT

Original motif Consensus sequence: CATTATGCTAARTG

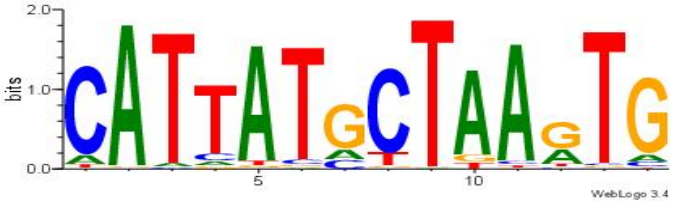

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

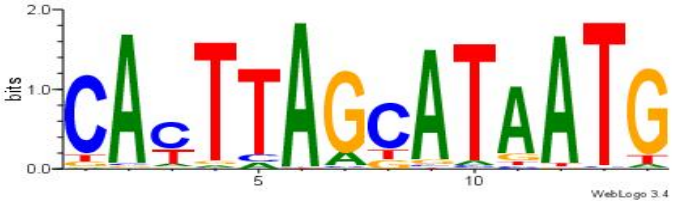

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.108378

Alignment:
GKCTGTACCCCCATTGTAT
----ATTCGGCCATCTT--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

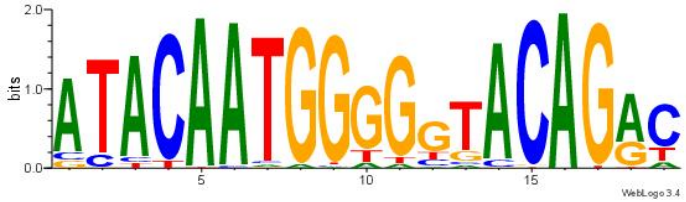

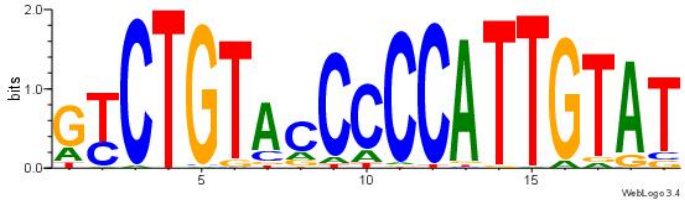

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.108782

Alignment:

```
AAGAGGTTTAATTGRCTCA
AAGATGGCCGAAT------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

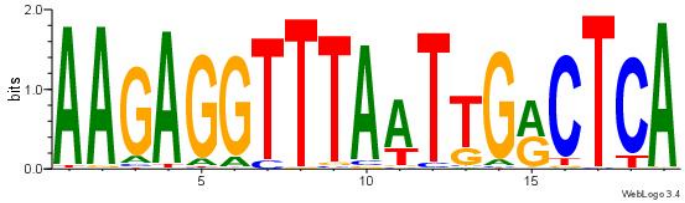

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

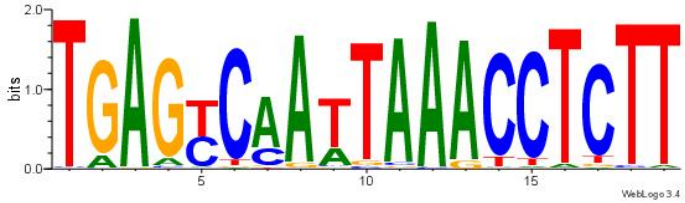

Dataset #:	1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.108851

Alignment:

```
AGACAGTGGGYGCAGGHCA
--AAGATGGCCGAAT----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

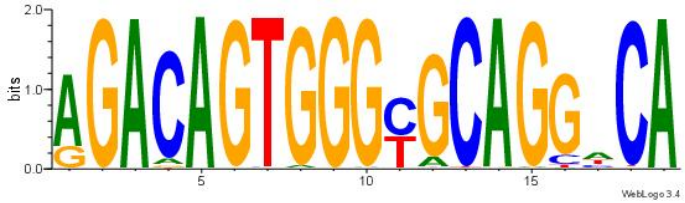

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

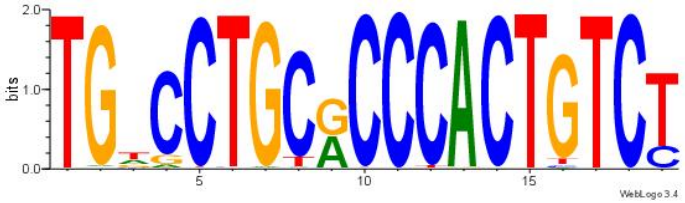

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.109882

Alignment:
GCAAAKGACATGATYTCATT
-AAGATGGCCGAAT------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

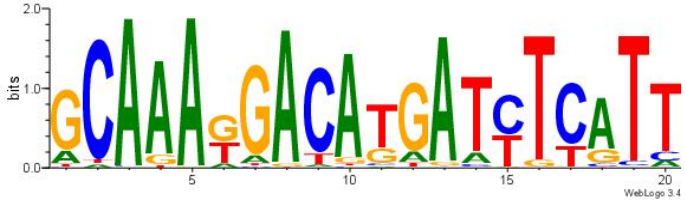

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

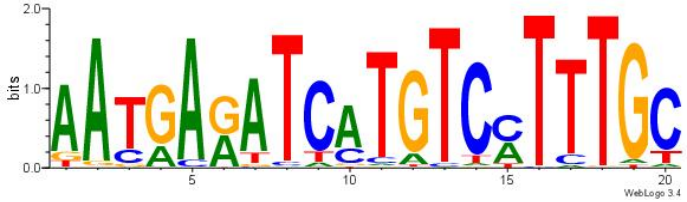

Dataset #: 1
Motif ID: 43
Motif name: Motif 43
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.110075

Alignment:
AGGAGRCMCTCTGCCTGGC
ATTCGGCCATCTT------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

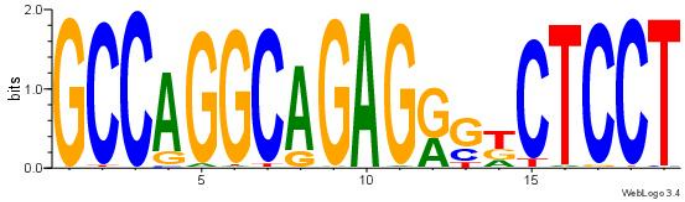

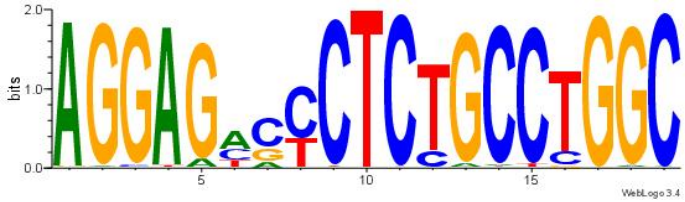

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.110284

Alignment:

```
GGGAGGGATATATTAGC
AAGATGGCCGAAT----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

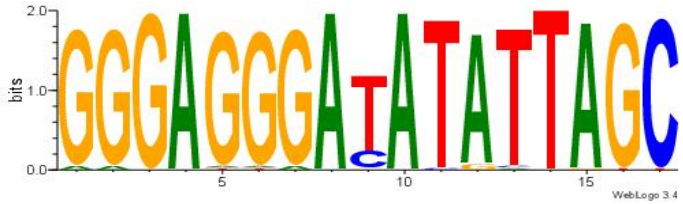

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

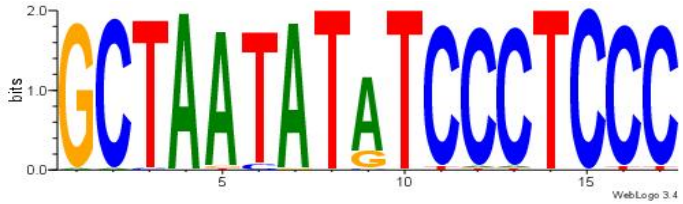

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.110883

Alignment:

```
GTKTMTATMTACCACATTTT
-----ATTCGGCCATCTT--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

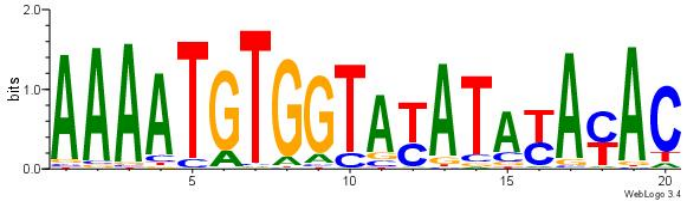

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

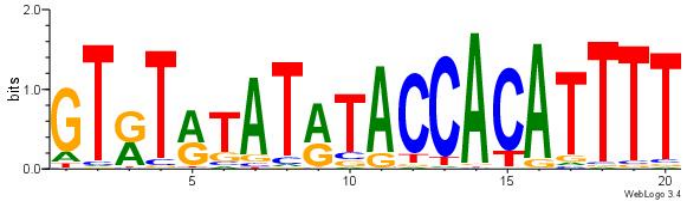

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.110923

Alignment:
GCCGGGRAGAGGCGCTCCT
AAGATGGCCGAAT------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

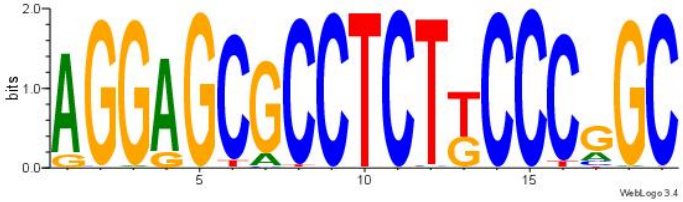

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

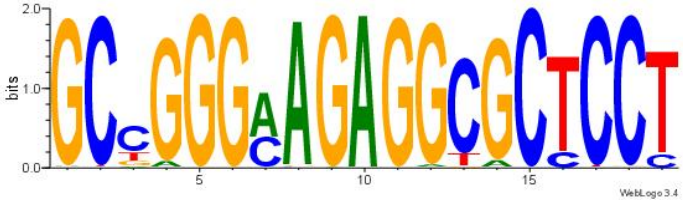

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.111066

Alignment:
CAAGCCTSKGCAATGGCAGG
-AAGATGGCCGAAT------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

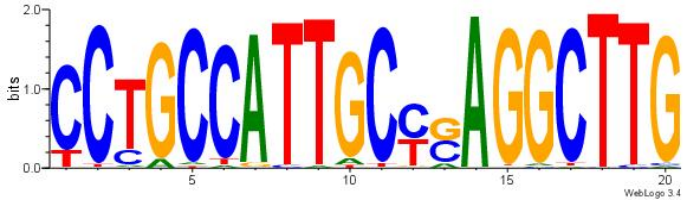

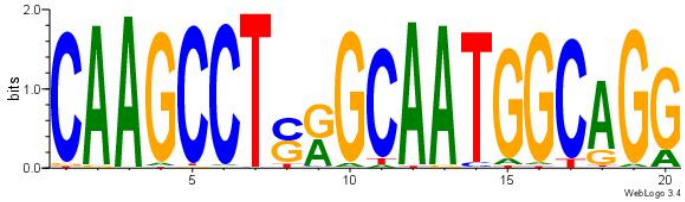

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.111283

Alignment:

```
CTTGGGTGGTCGATGGGAC
----AAGATGGCCGAAT--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

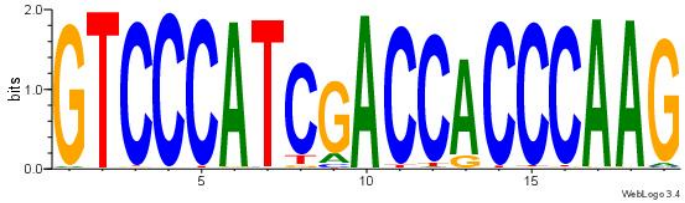

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

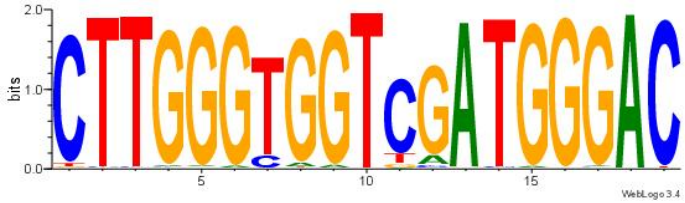

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.111644

Alignment:

```
CCCATGCAAGTCYRAAATCC
----AAGATGGCCGAAT---
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

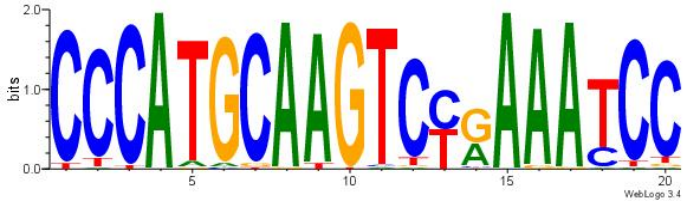

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

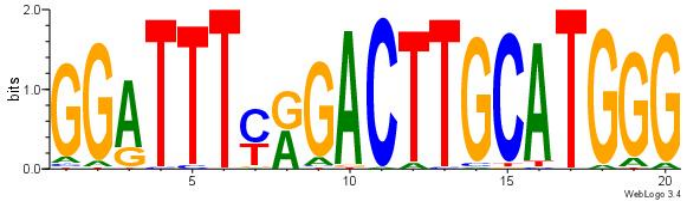

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.111706

Alignment:
CCCMKGGCACCCTCAGTCCT
ATTCGGCCATCTT-------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

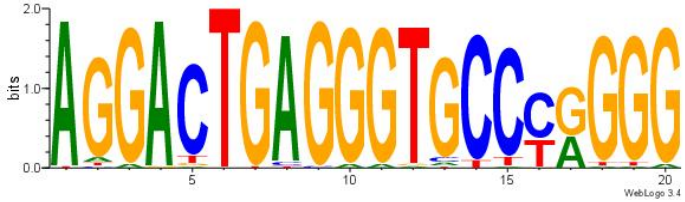

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

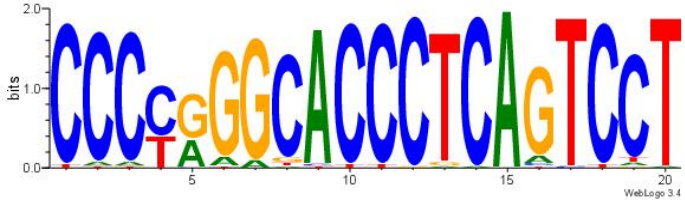

Dataset #: 1
Motif ID: 38
Motif name: Motif 38
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.112516

Alignment:
TCTMKGCTCACTGC
ATTCGGCCATCTT-

Original motif Consensus sequence: GCAGTGAGCYRAGA

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

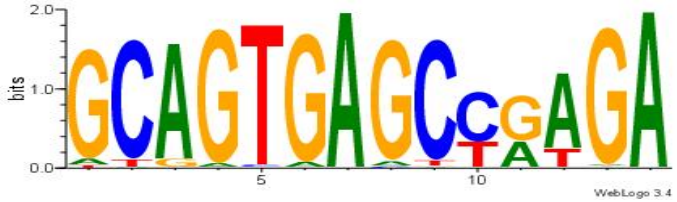

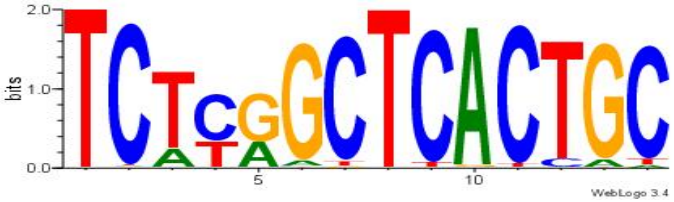

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.112579

Alignment:

```
CGTCGCTCACGCTGGGAGCT
ATTCGGCCATCTT-------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

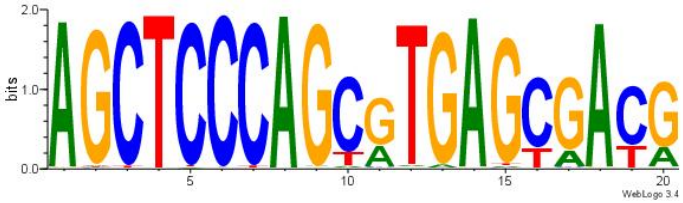

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

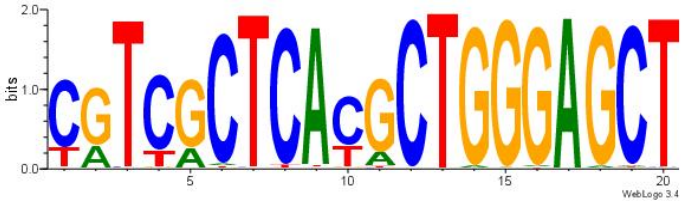

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.1127

Alignment:

```
TAATTTTATGTGTCAACTTG
------ATTCGGCCATCTT-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

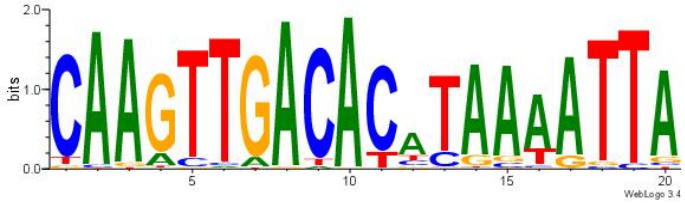

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

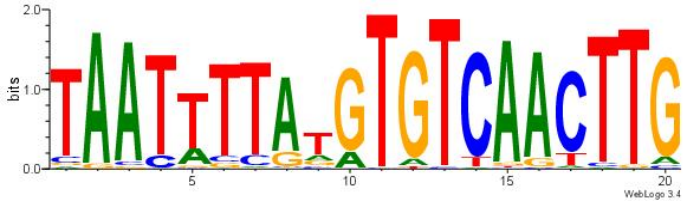

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.112818

Alignment:
CTCARGTGATCCTCC
ATTCGGCCATCTT--

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

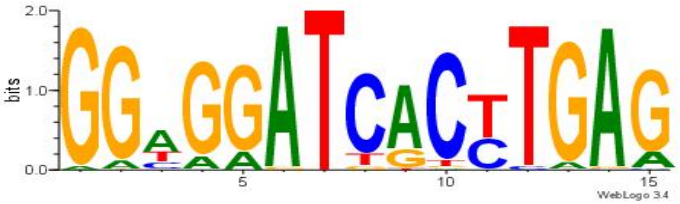

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.114266

Alignment:
CGGCTTCATTCTTGAAGTC
ATTCGGCCATCTT------

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

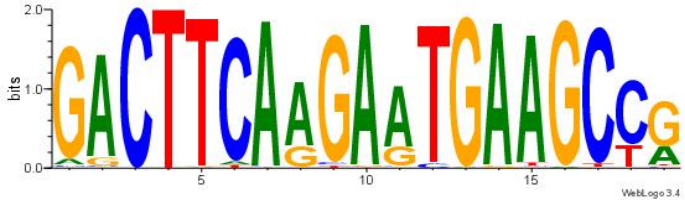

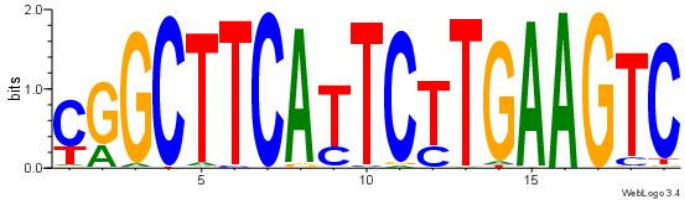

Dataset #: 1 **Motif ID: 98** **Motif name: Motif 98**

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

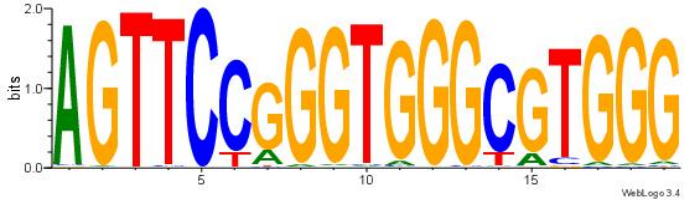

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

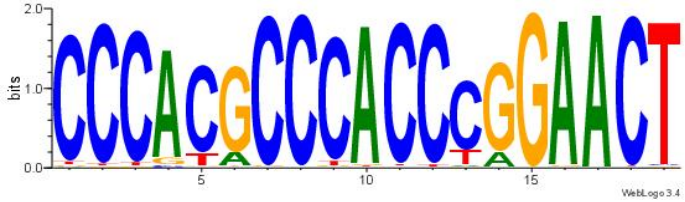

Best Matches for Motif ID 98 (Highest to Lowest)

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0965972

Alignment:

CTTTCTGGGCTGGCCAAGG
AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

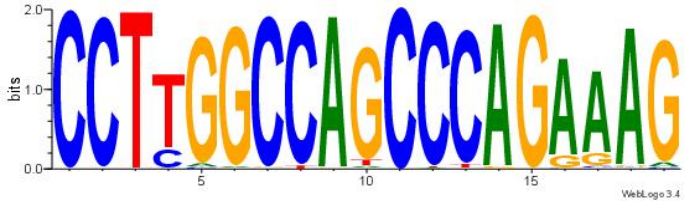

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

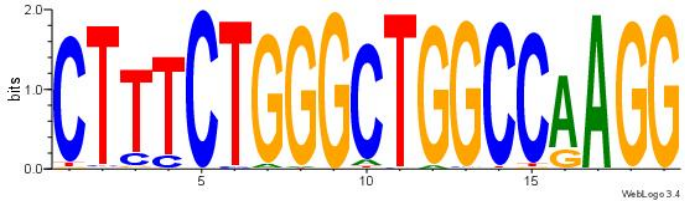

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0978875

Alignment:
AGGACTGAGGGTGCCYRGGG
AGTTCCGGGTGGGCGTGGG-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

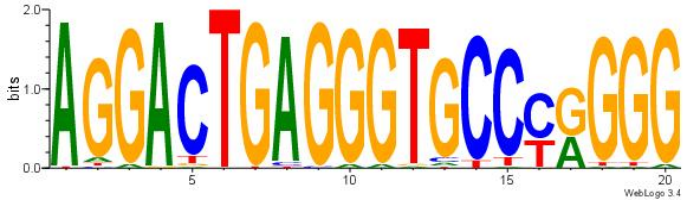

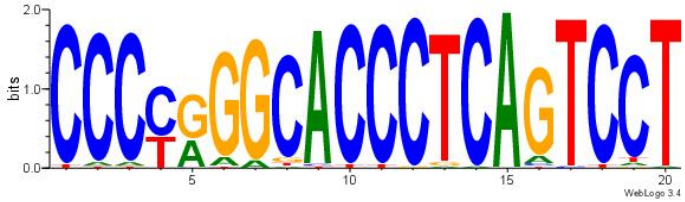

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0980426

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

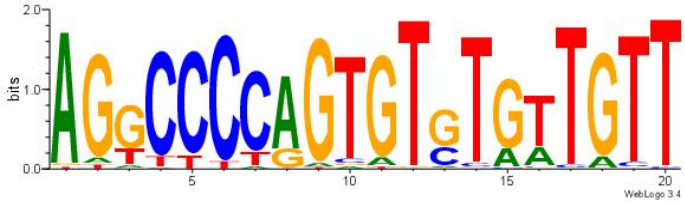

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

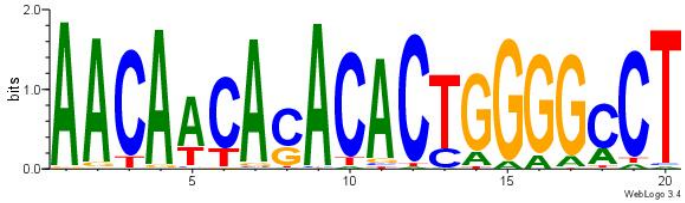

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.102363

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

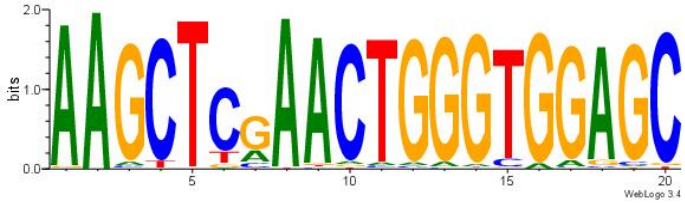

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

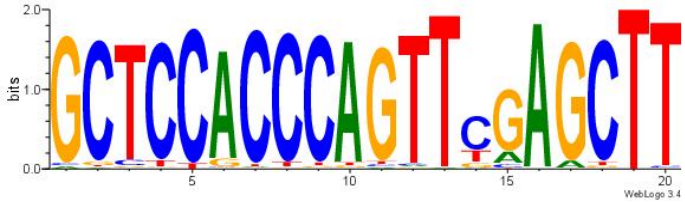

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.103971

Alignment:
ACTCAGCCCRCCTGCACCC
CCCACGCCCACCCGGAACT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

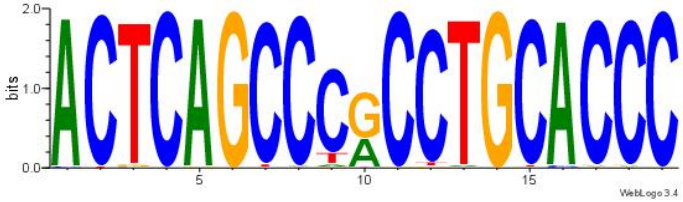

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

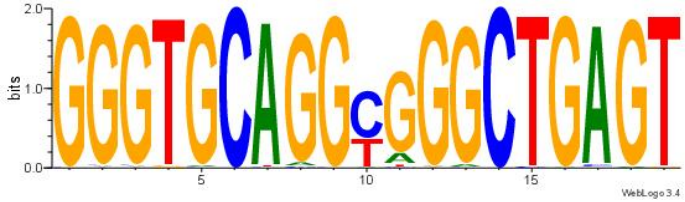

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.106009

Alignment:
CCCATGCAAGTCYRAAATCC
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

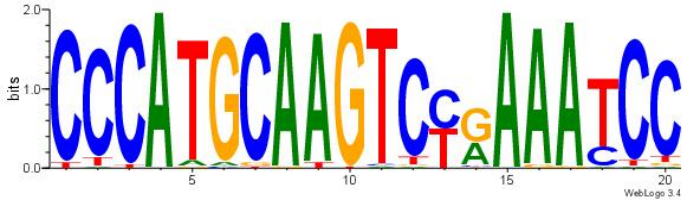

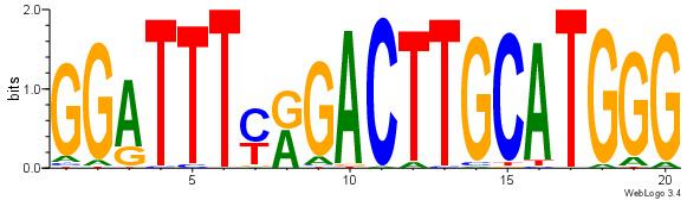

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.108218

Alignment:

```
AGCTCCCAGCGTGAGCGACG
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

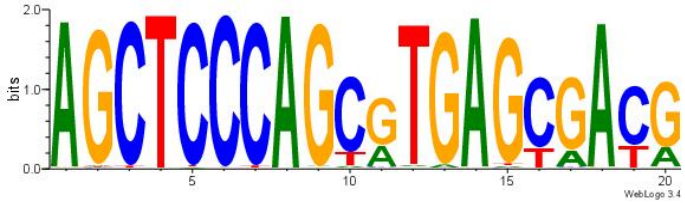

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

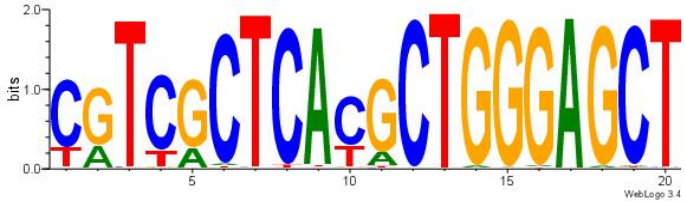

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.10822

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

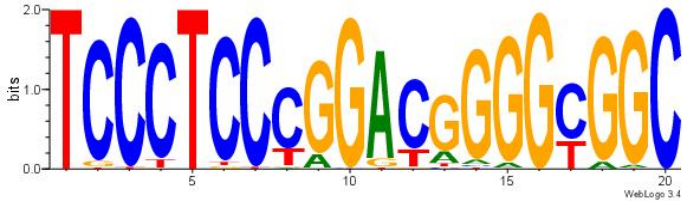

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

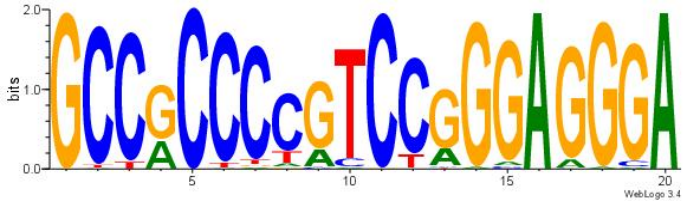

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.113165

Alignment:
MCCYGGCWSMGASGSTCCT
CCCACGCCCACCCGGAACT

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

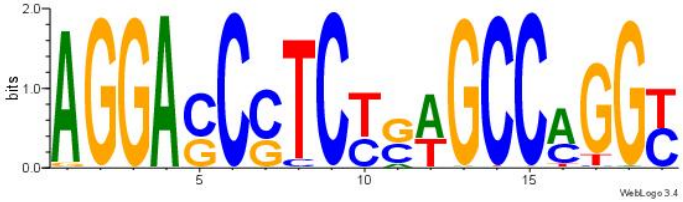

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

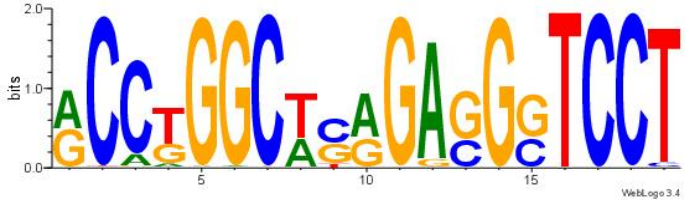

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.113359

Alignment:
ACCKTCGCGGTGAGTGTTAC
-AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

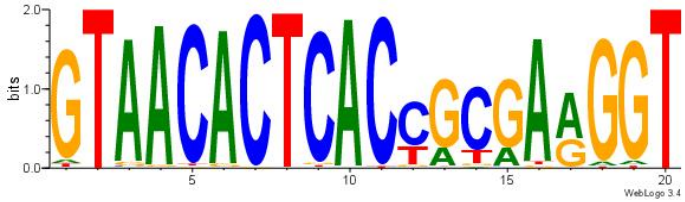

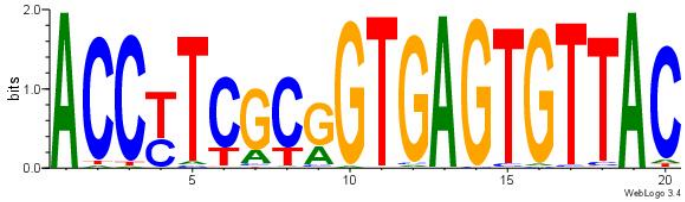

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.116533

Alignment:

```
AGTTGTAATTGGGAGACTT
AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

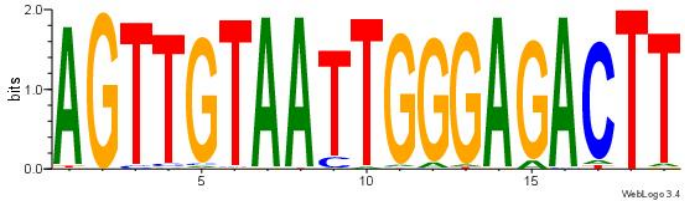

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

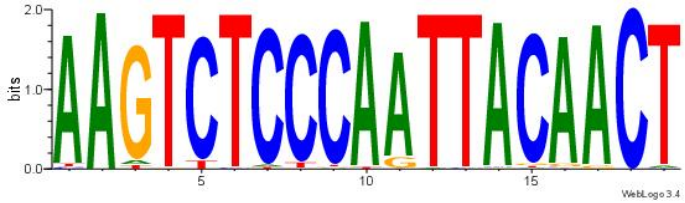

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.117205

Alignment:

```
AAGTTCTKGGKTACATGTGC
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

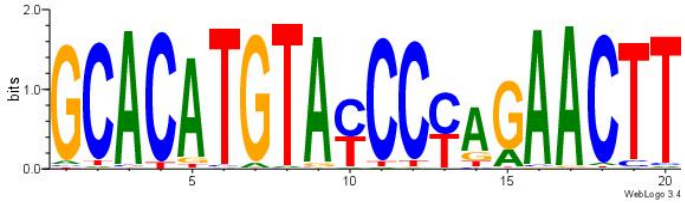

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

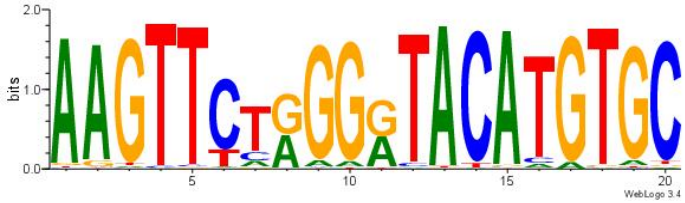

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.117236

Alignment:
GAATACCTCCTGAAGGACCT
-CCCACGCCCACCCGGAACT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

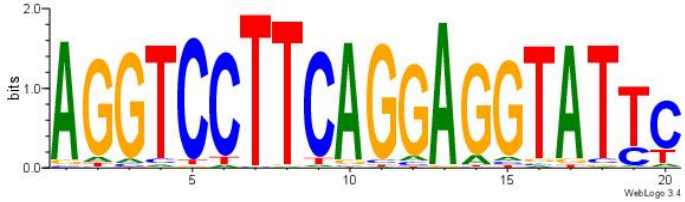

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

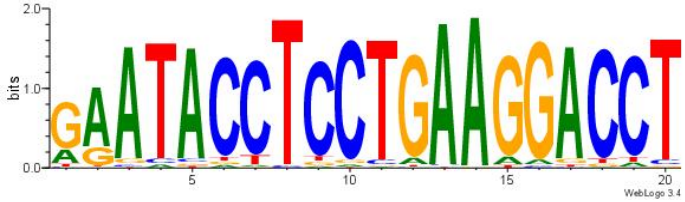

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.117495

Alignment:
ATGTGGAGGTGGAAGACAGT
AGTTCCGGGTGGGCGTGGG-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

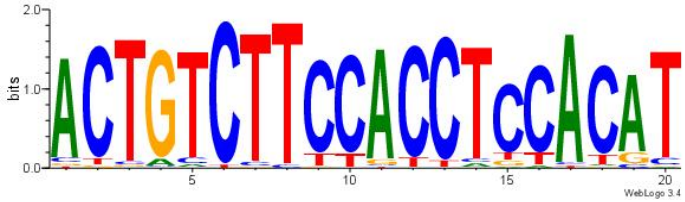

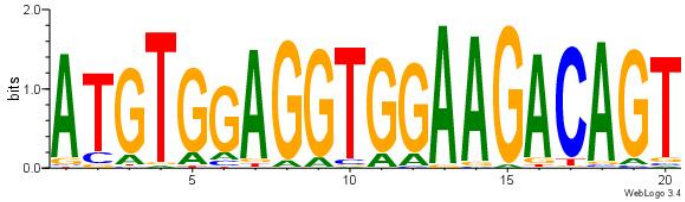

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.119899

Alignment:

```
GCCACCAMGCCMKGCTAAT
CCCACGCCCACCCGGAACT
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

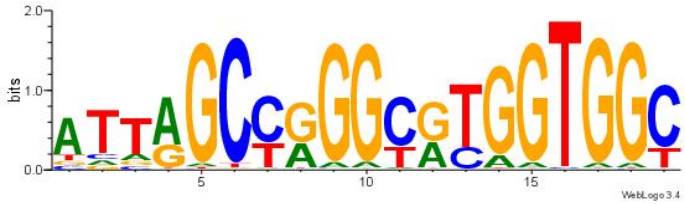

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

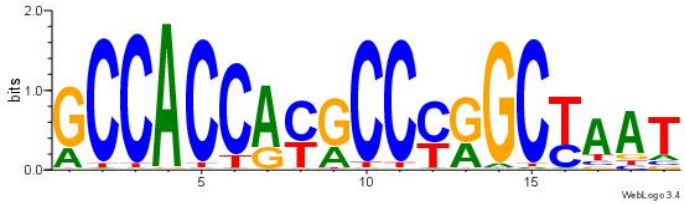

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.121099

Alignment:

```
CATTCTGGGGTCTGGAGGAY
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

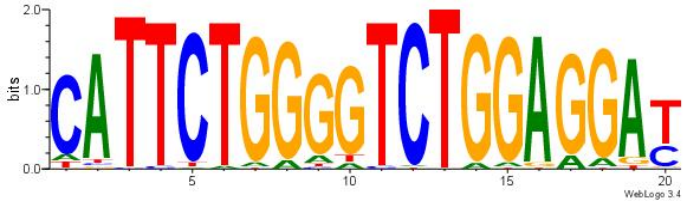

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

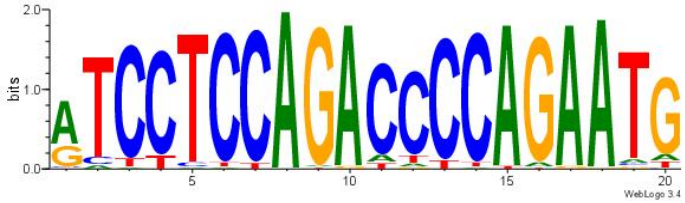

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.1214

Alignment:
ACATCCCAGACGATGGGCG
AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

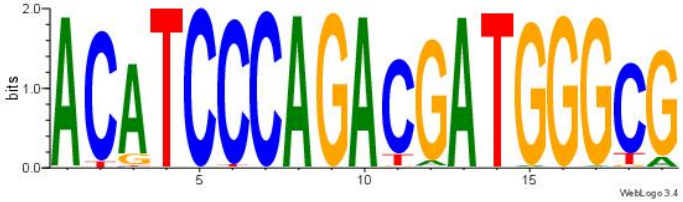

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

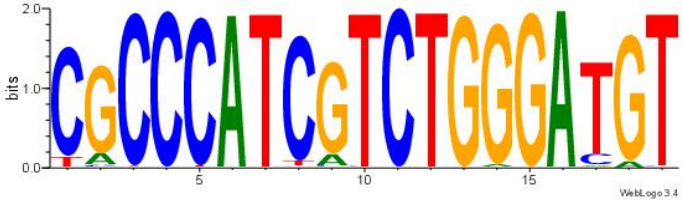

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.121642

Alignment:
GGGCTCCCACAGTGCAGCGG
-AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

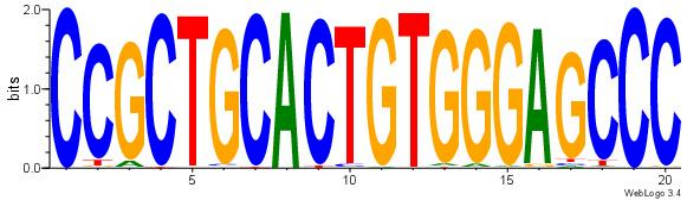

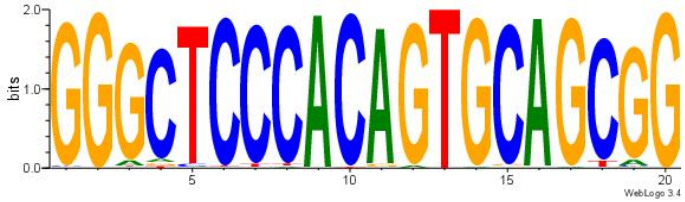

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.121759

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

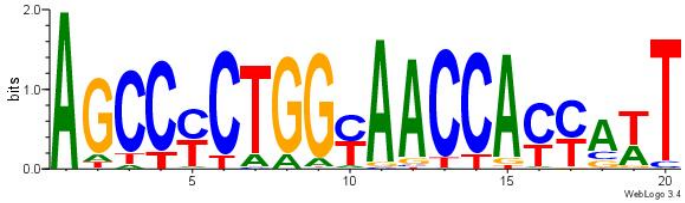

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

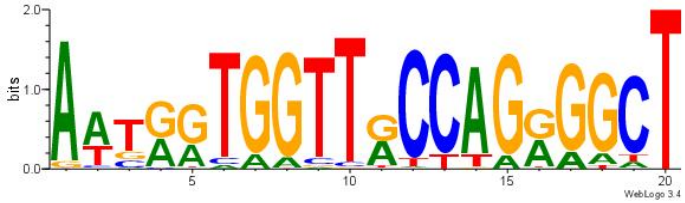

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12503

Alignment:

```
AGGAGRCMCTCTGCCTGGC
AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

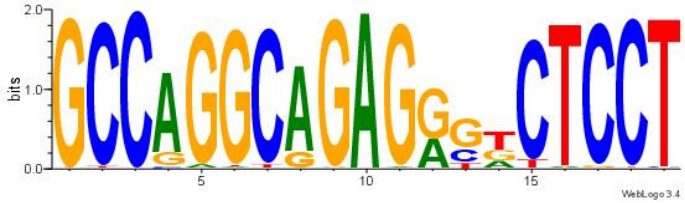

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

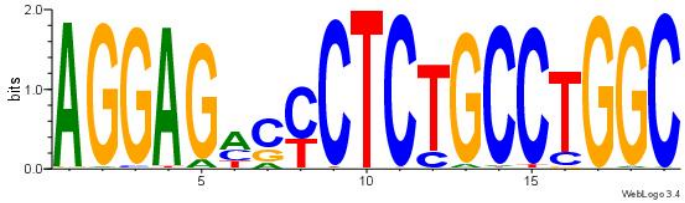

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.125761

Alignment:
AAGTCCAAGATCAAGGTGYY
-AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

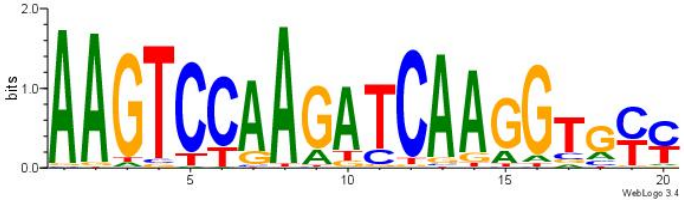

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

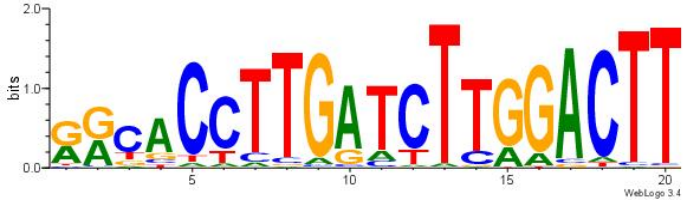

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.126835

Alignment:
CAACATGGATGRARCTGGAG
AGTTCCGGGTGGGCGTGGG-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

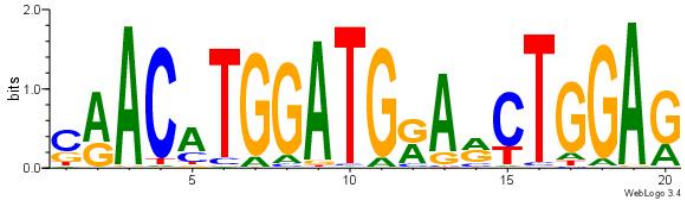

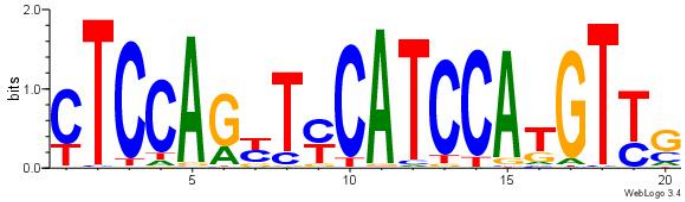

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.12703

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

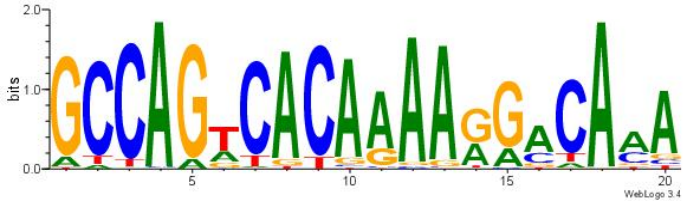

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

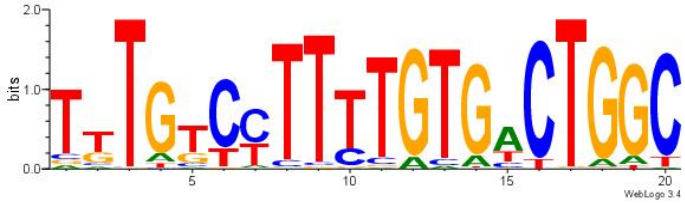

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127462

Alignment:

```
ACTCCCTAGTGAGATGAACC
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

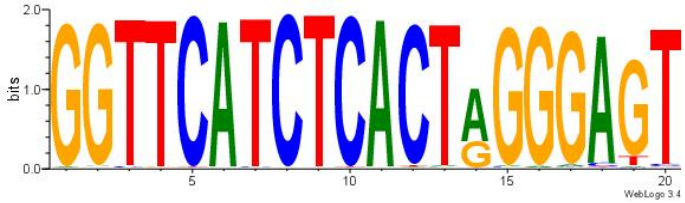

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

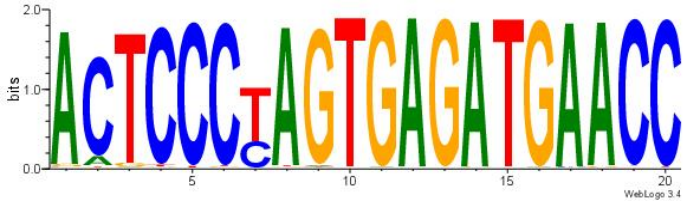

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.129813

Alignment:
GCCTCTCCCTCCACACCTCC
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

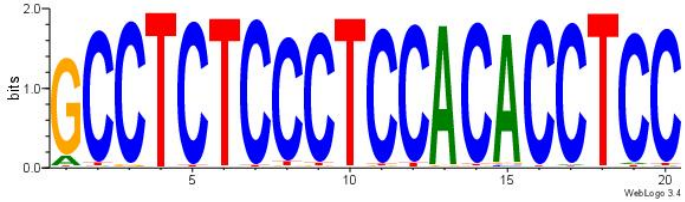

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

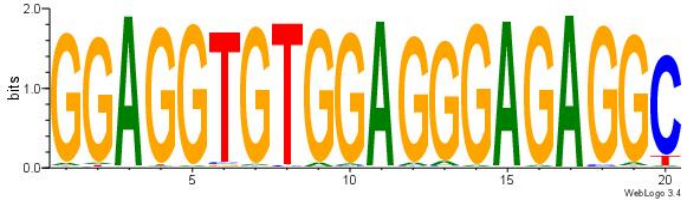

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.13025

Alignment:
AGCCCCGGTTCCCGCYCGC
AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

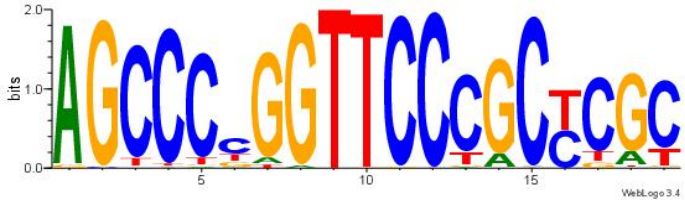

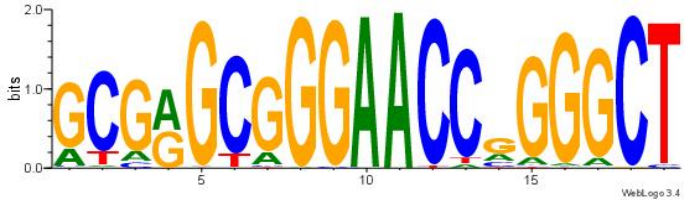

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130472

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

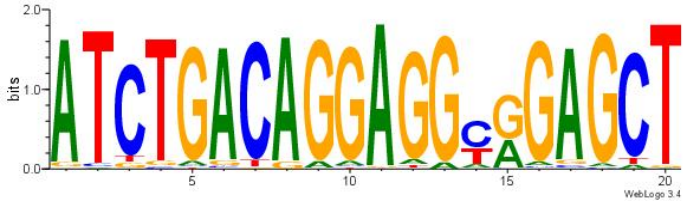

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

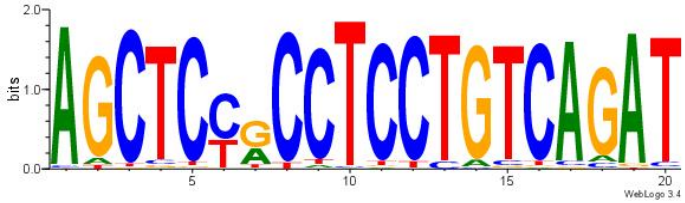

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.131968

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

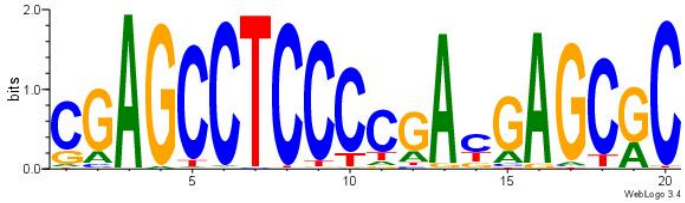

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

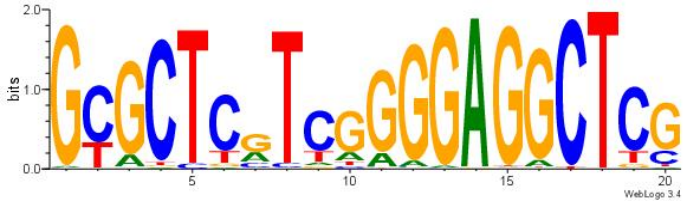

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.131968

Alignment:
GGCAATGCCTCGCCCTGCTT
-CCCACGCCCACCCGGAACT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

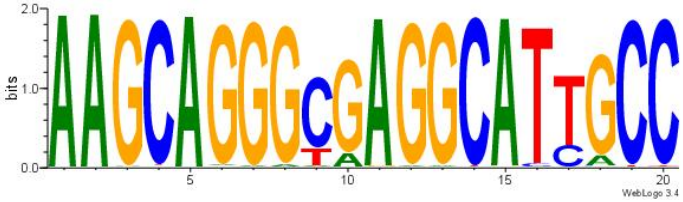

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

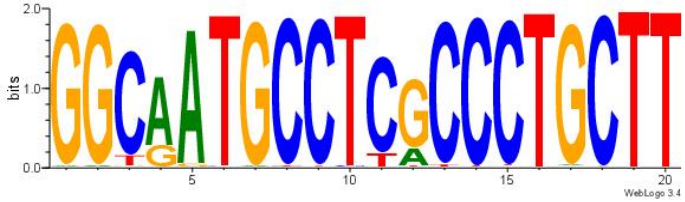

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.133111

Alignment:
GGAGCCGGCTCCCTCAGCTT
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

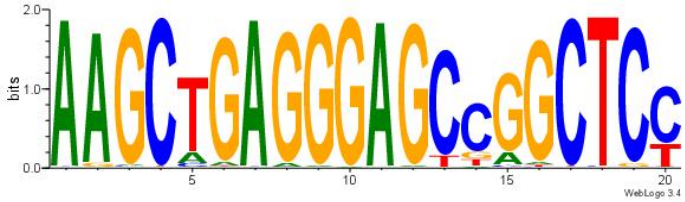

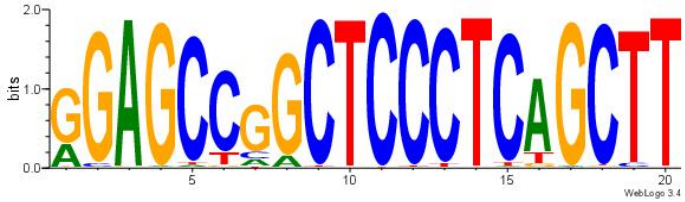

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.134173

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

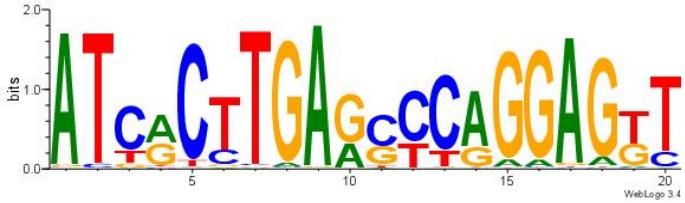

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

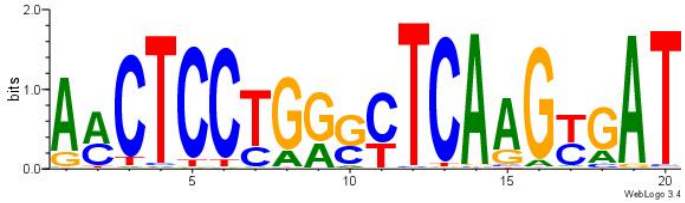

Dataset #: 1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135357

Alignment:

AGGAGCGCCTCTKCCCGGC

AGTTCCGGGTGGGCGTGGG

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

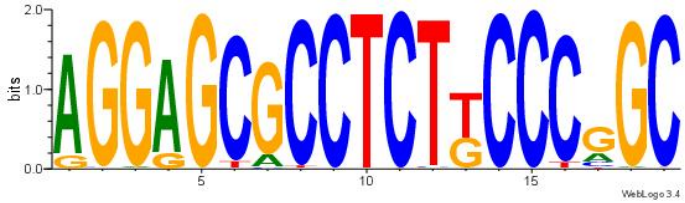

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

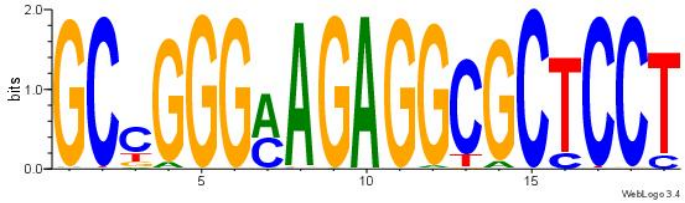

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.135741

Alignment:
KCCGGGCCTTAGCTGCCTTC
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

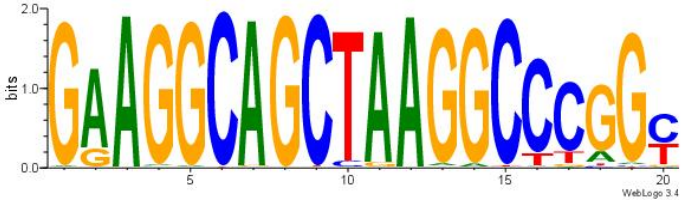

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

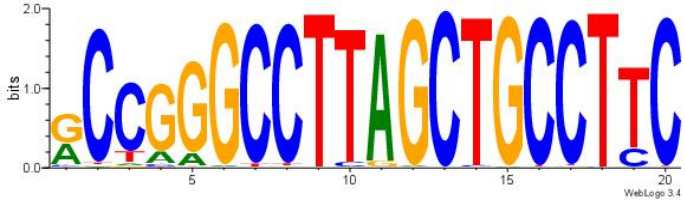

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.136632

Alignment:
CAAGGGTATAYGAGTAGCTG
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

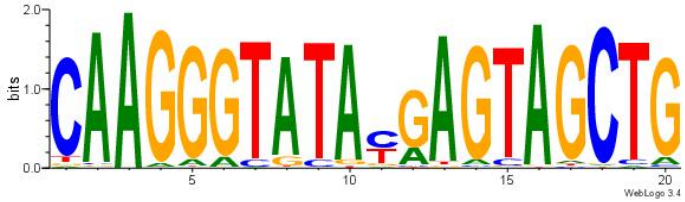

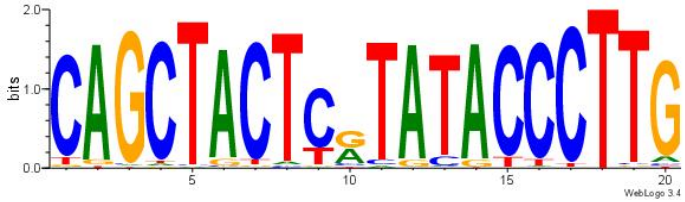

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137126

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-AGTTCCGGGTGGGCGTGGG
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

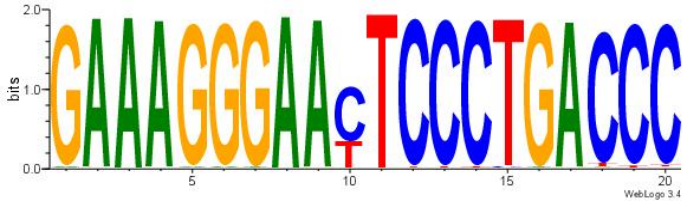

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

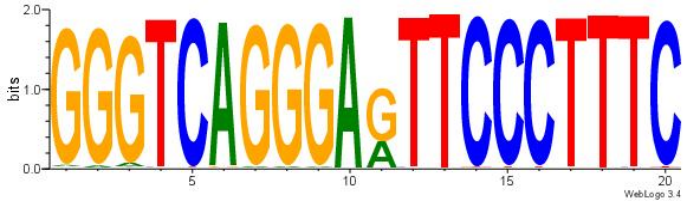

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137613

Alignment:

```
CCCAAATCTCATSTTGAAT
CCCACGCCCACCCGGAACT
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

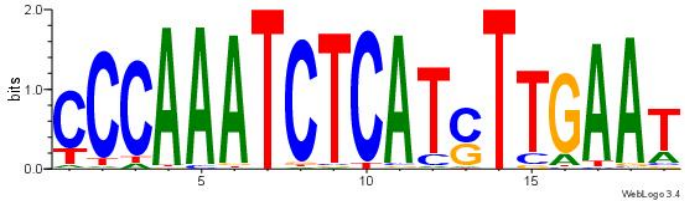

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

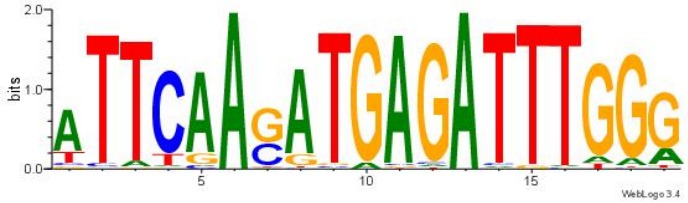

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.137944

Alignment:
CCACCACAGCTCAAGGAGGC
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

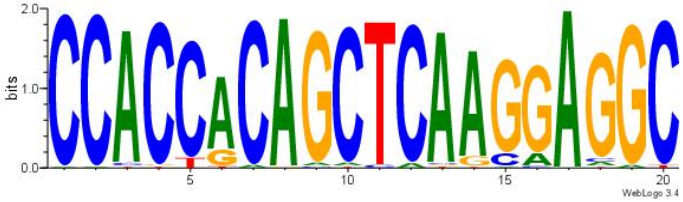

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

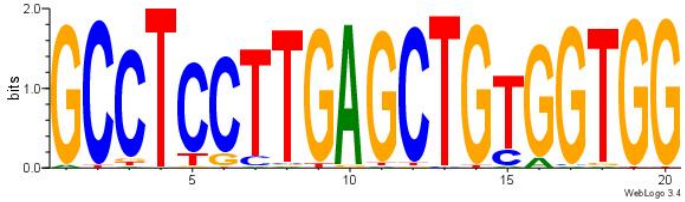

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.138692

Alignment:
CGCGGCGCTTGCGGGCCAGC
AGTTCCGGGTGGGCGTGGG-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

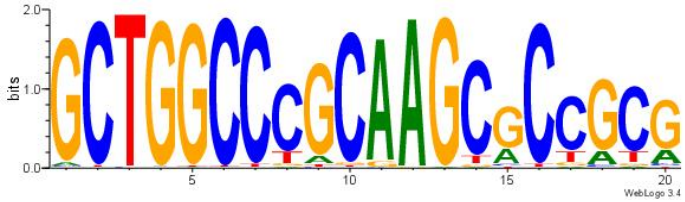

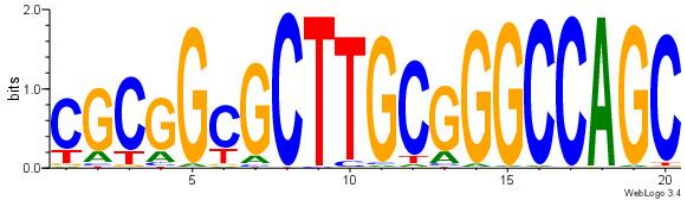

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.13974

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
CCCACGCCCACCCGGAACT-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

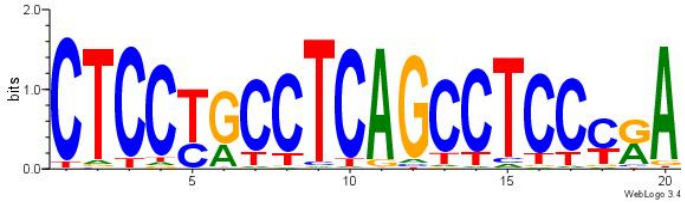

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

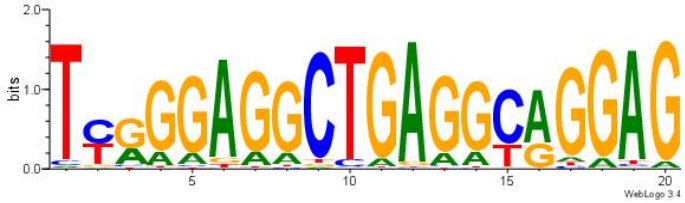

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140472

Alignment:

```
CAAGTTGACACATAAAATTA
CCCACGCCCACCCGGAACT-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

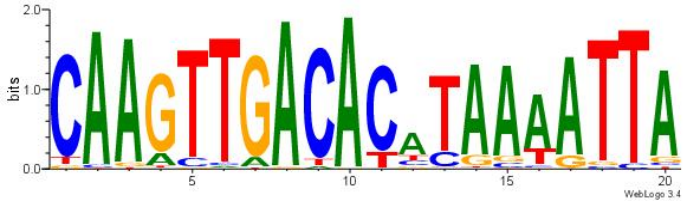

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

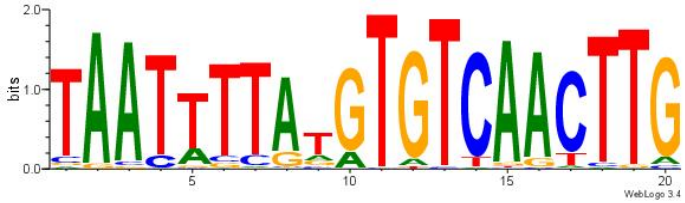

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.140506

Alignment:
GCCAATTTCTCCCATTTGGA
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

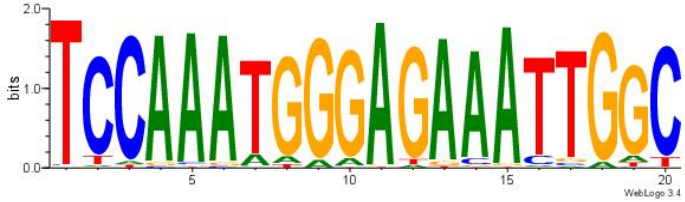

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

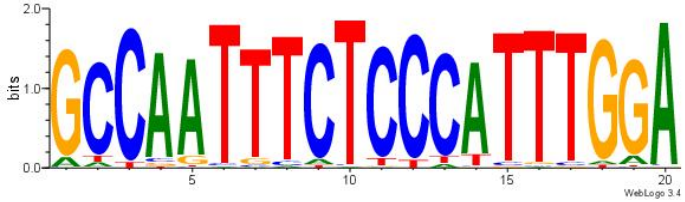

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.141551

Alignment:
TGGCTTCACCCAGTGGATCC
-CCCACGCCCACCCGGAACT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

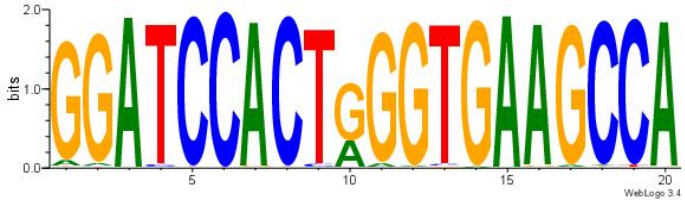

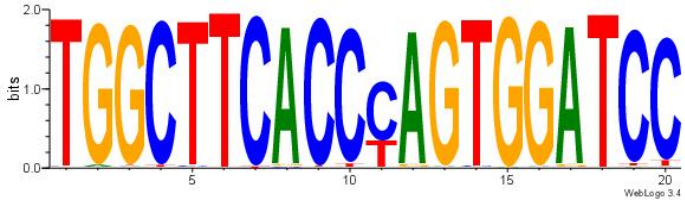

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141717

Alignment:

```
CCTGCCATTGCYSAGGCTTG
CCCACGCCCACCCGGAACT-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

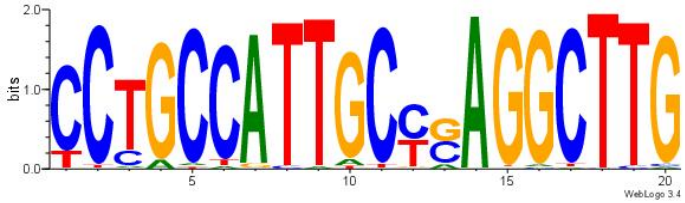

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

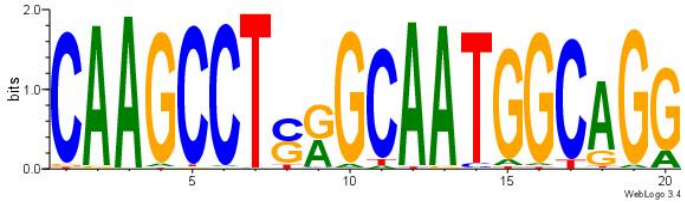

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142615

Alignment:

```
ATTGATMKCCAGGGTTGATT
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

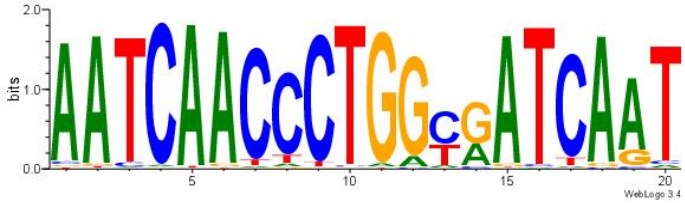

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

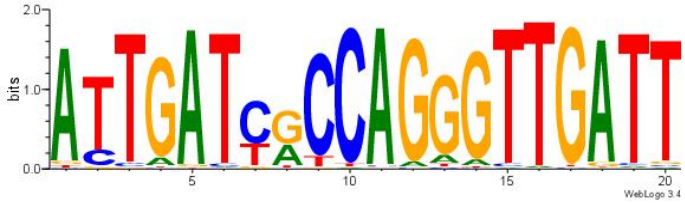

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.142702

Alignment:
GTCCCATCGACCACCCAAG
CCCACGCCCACCCGGAACT

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

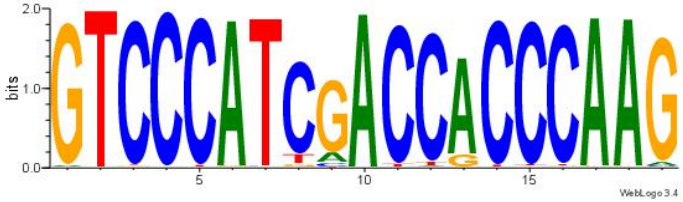

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

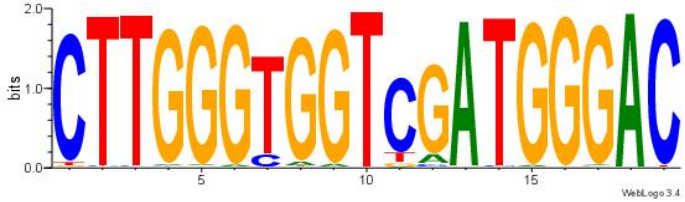

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142738

Alignment:
ACCGAGMKMGCAGCTTCGGG
AGTTCCGGGTGGGCGTGGG-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

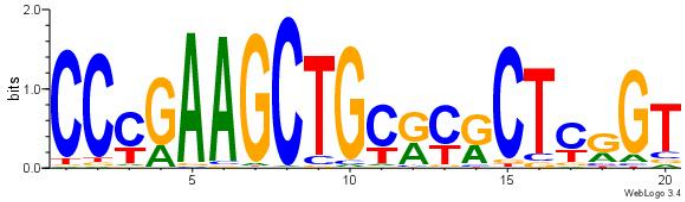

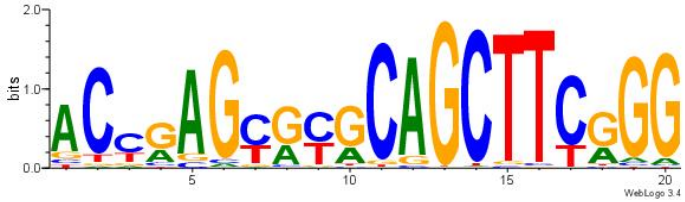

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142762

Alignment:

```
GAAACTGCTTTGTGATGTGT
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

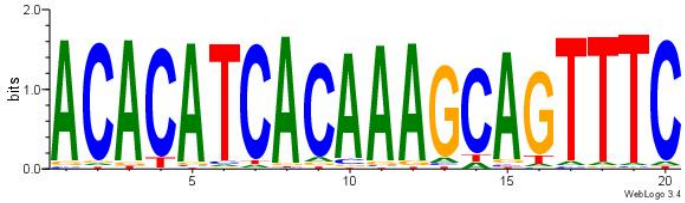

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

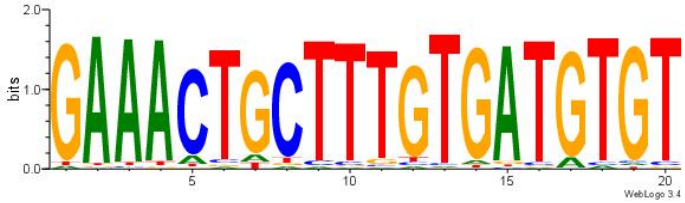

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.143454

Alignment:

```
ACTTTGGACTGTGGACTTTT
AGTTCCGGGTGGGCGTGGG-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

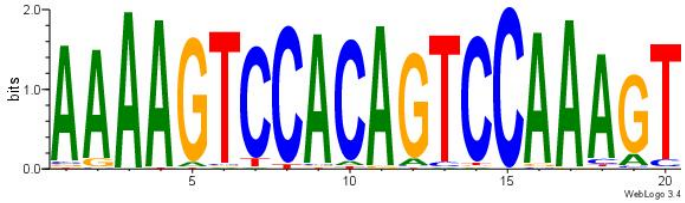

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

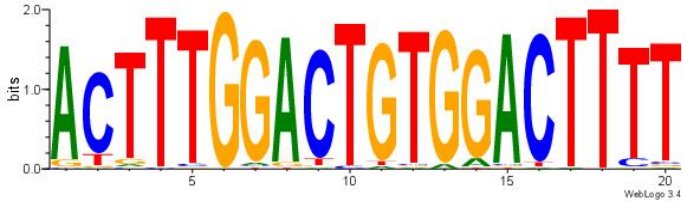

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.143537

Alignment:
AAATTACCCAGTCTCAGGTA
CCCACGCCCACCCGGAACT-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

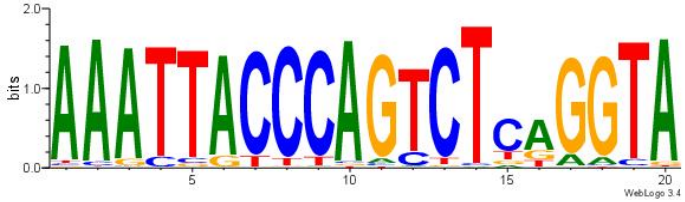

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

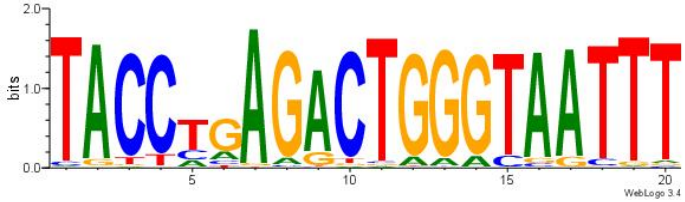

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.14401

Alignment:
TGCTGGAGGTCCACTCCAGA
AGTTCCGGGTGGGCGTGGG-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

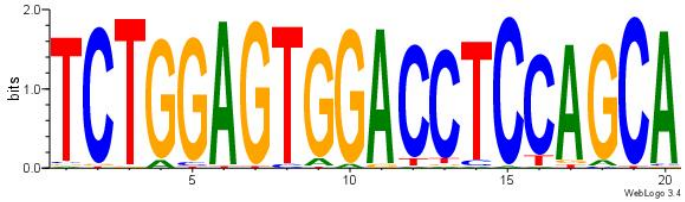

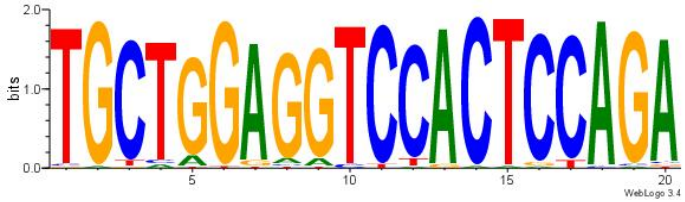

Dataset #: 1 **Motif ID: 99** **Motif name: Motif 99**

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

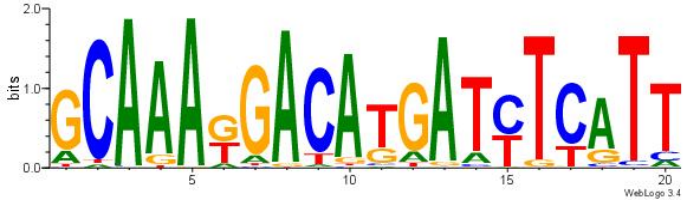

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

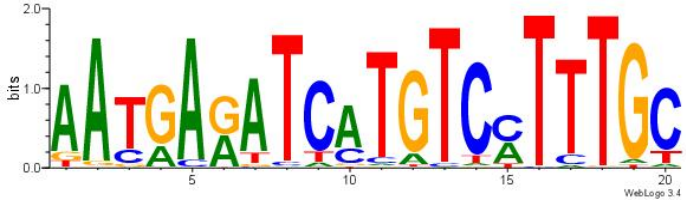

Best Matches for Motif ID 99 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0793398

Alignment:

AGTGAGAACATRYRRTRTTT
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

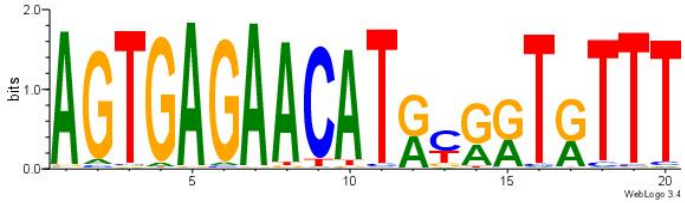

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

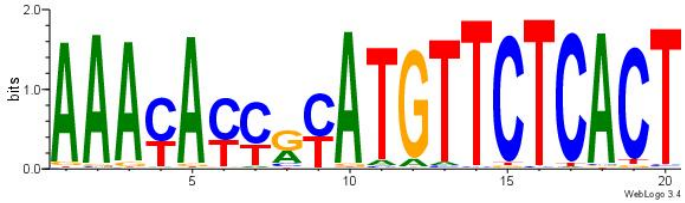

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0873595

Alignment:
MGGGATATAATCTCCTGGTG
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

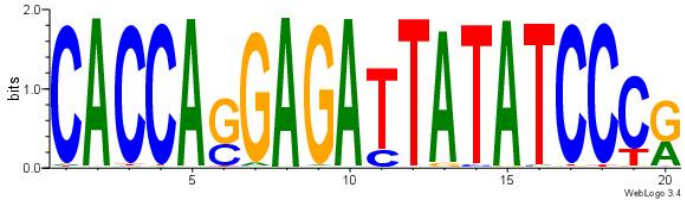

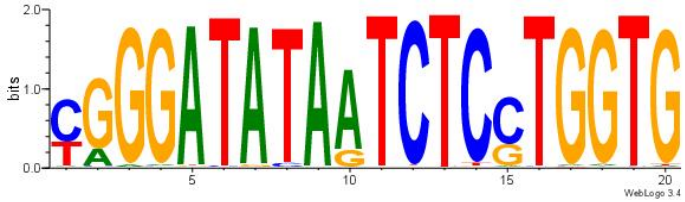

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0892295

Alignment:

```
GCCAGTCACAAAARGACAMA
GCAAAKGACATGATYTCATT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

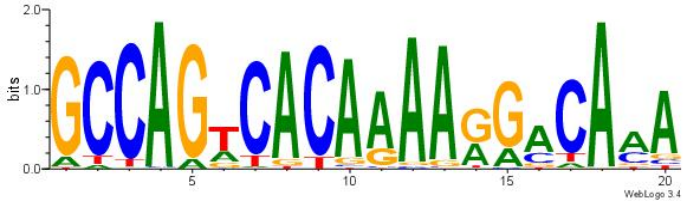

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

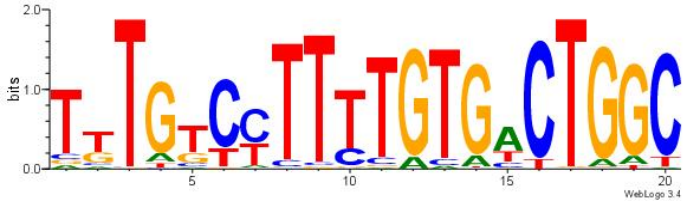

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0978439

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

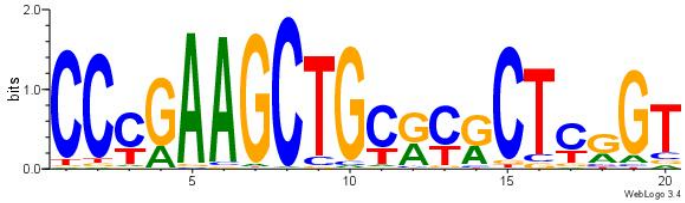

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

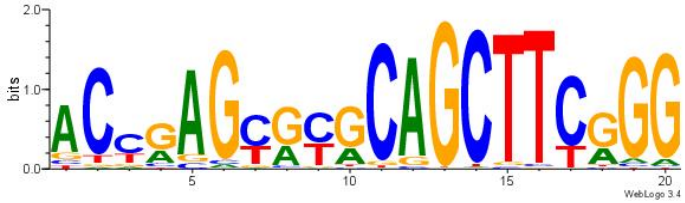

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.0984998

Alignment:
GGCAATGCCTCGCCCTGCTT
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

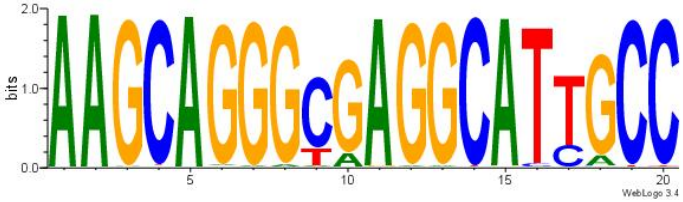

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

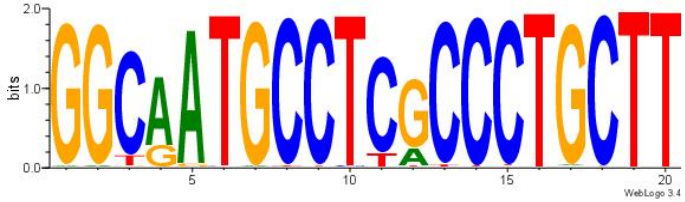

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.100672

Alignment:
GCCKGGMKCMGTGGCTCAKG
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

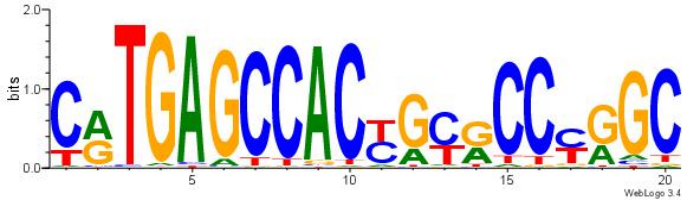

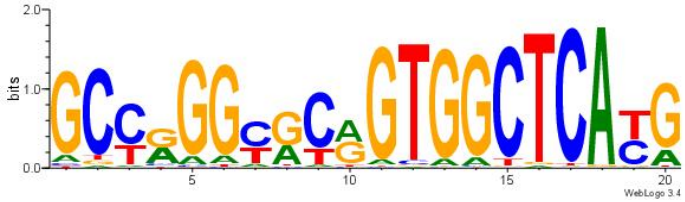

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.101071

Alignment:

```
AAGTTCTKGGKTACATGTGC
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

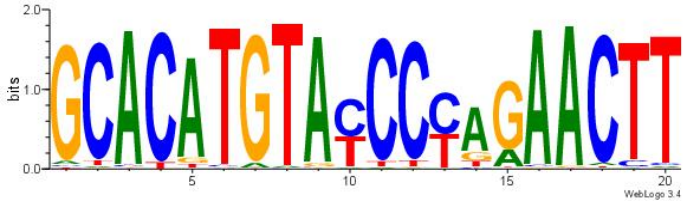

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

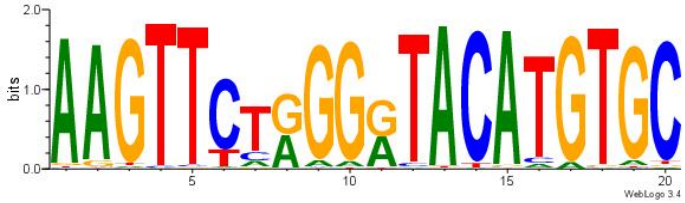

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.105062

Alignment:
ACACATCACAAAGCAGTTTC
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

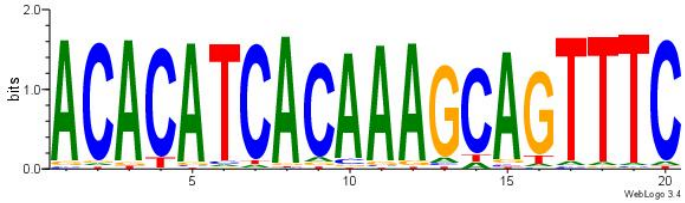

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

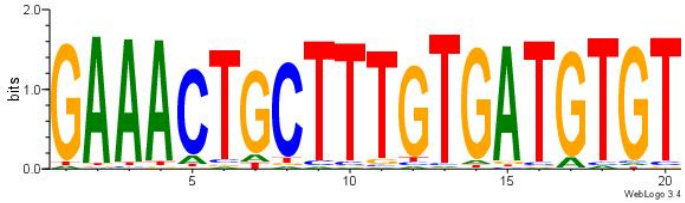

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.107463

Alignment:
AAAATCACAAGCATTCCTAT
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

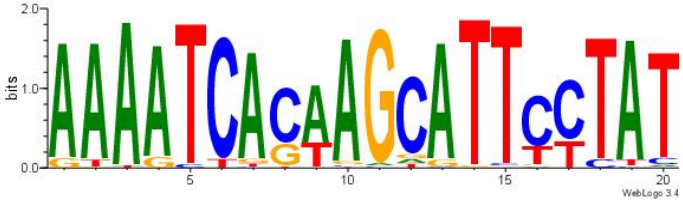

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

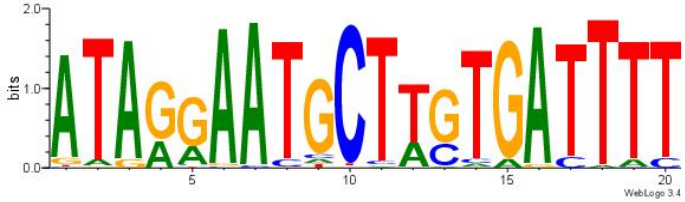

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.108388

Alignment:
ATTGATMKCCAGGGTTGATT
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

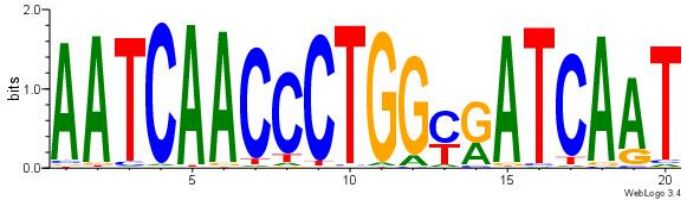

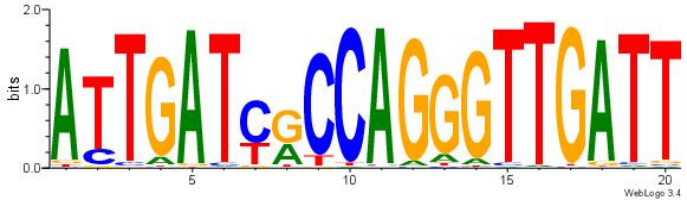

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.108706

Alignment:

```
CMTAGYACAGTGCCTGGCAC
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

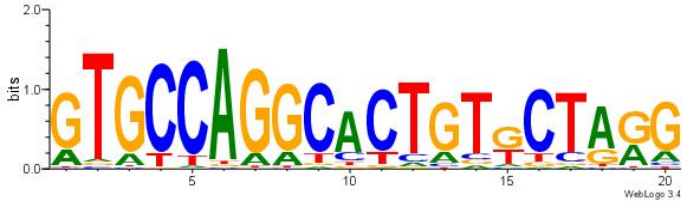

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

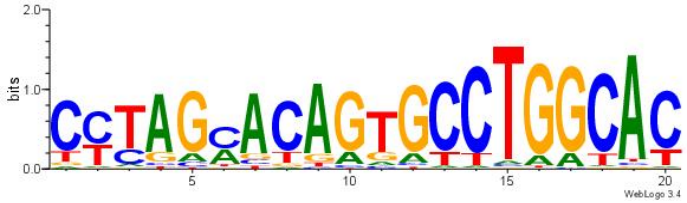

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.109513

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

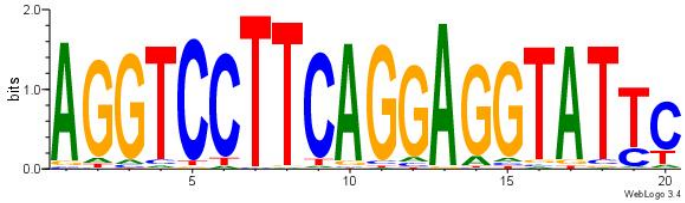

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

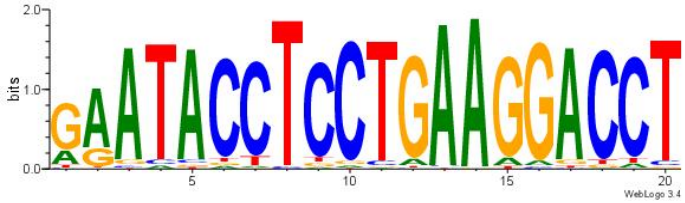

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.110092

Alignment:
GAAHCAACCKAAKTGTCCAT
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

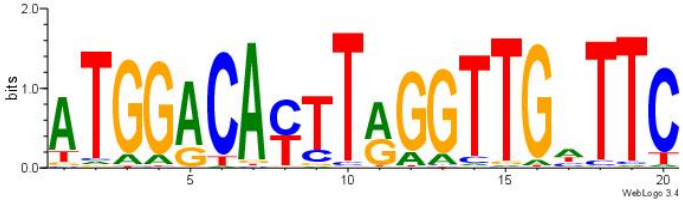

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

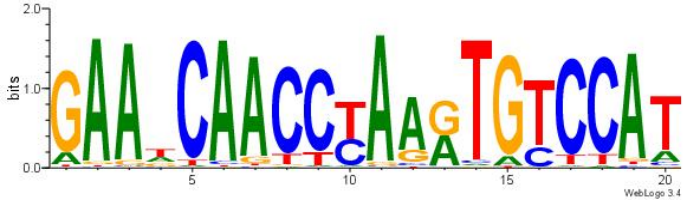

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.110104

Alignment:
TAAAAGACTACAWATTGGGT
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

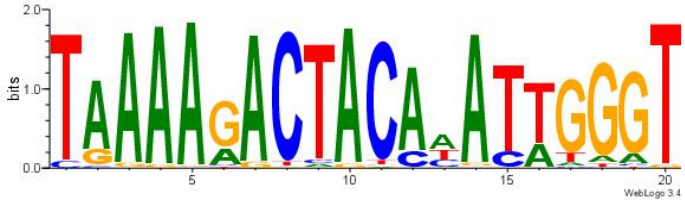

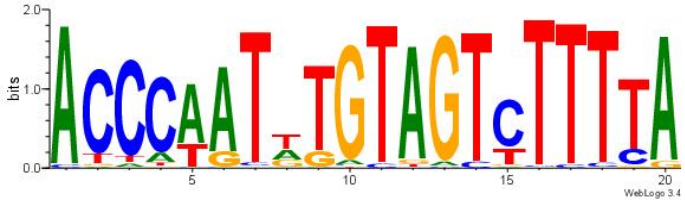

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.110498

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GCAAAKGACATGATYTCATT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

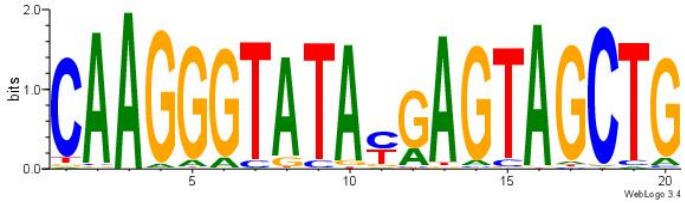

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

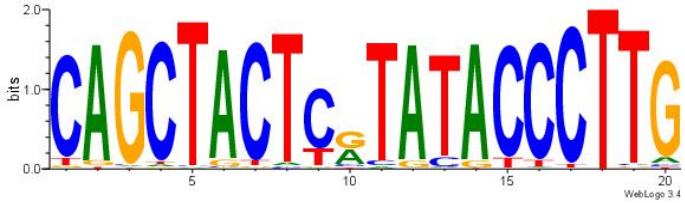

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111713

Alignment:

```
TAATTTTATGTGTCAACTTG
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

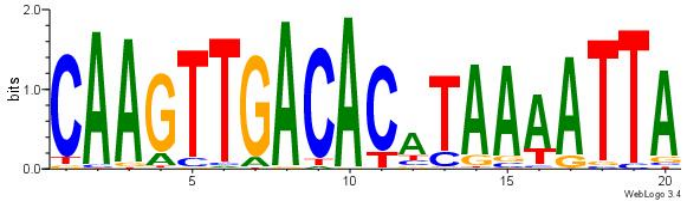

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

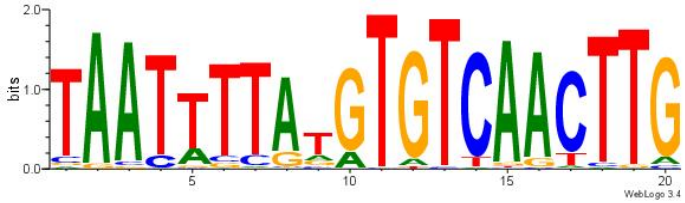

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.113514

Alignment:
CTCCAGKTMCATCCATGTTG
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

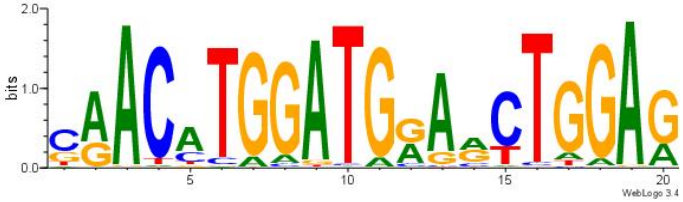

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

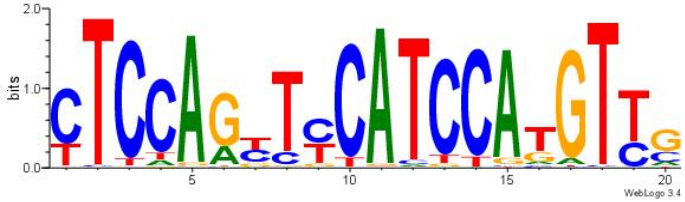

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.113913

Alignment:
ACCTGGAAAATCGGGTCACT
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

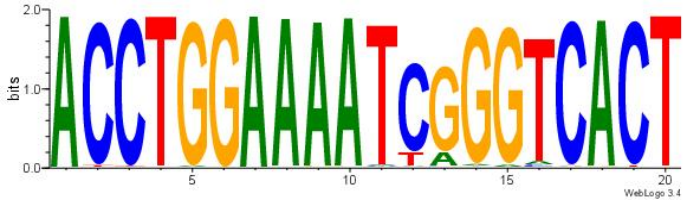

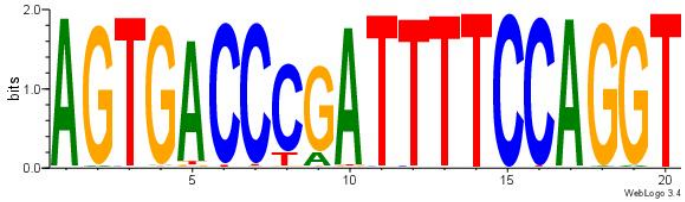

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.115963

Alignment:

```
ATTGGTGTATTTACAATCCC
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

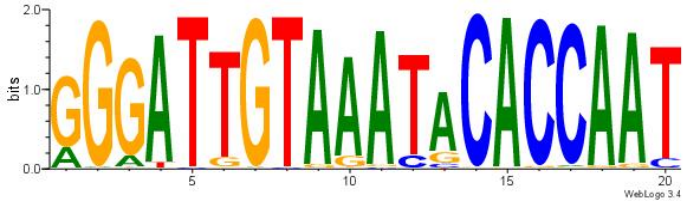

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.116121

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
GCAAAKGACATGATYTCATT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

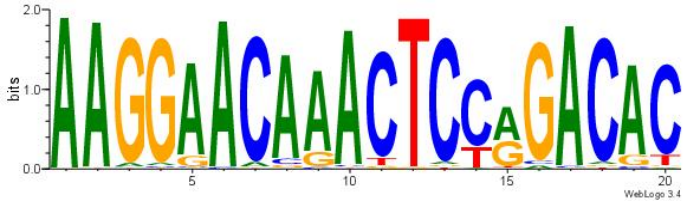

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

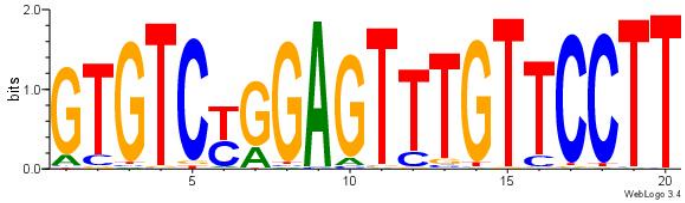

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.117195

Alignment:
GCCAATTTCTCCCATTTGGA
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

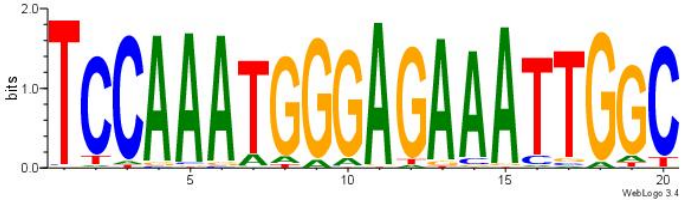

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

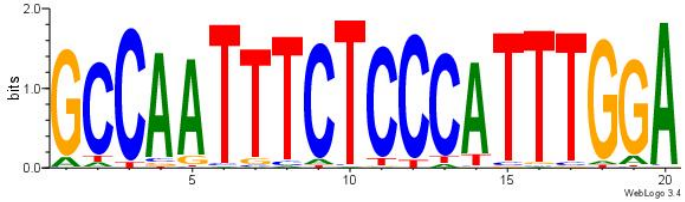

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.117621

Alignment:
GTKTMTATMTACCACATTTT
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

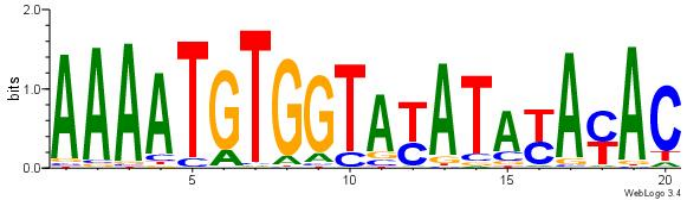

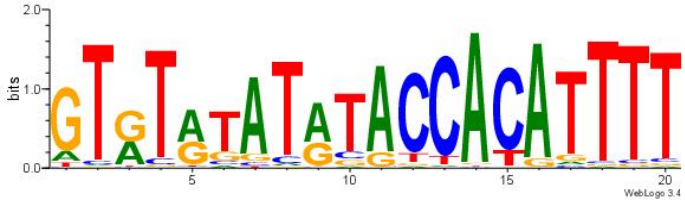

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118453

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
GCAAAKGACATGATYTCATT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

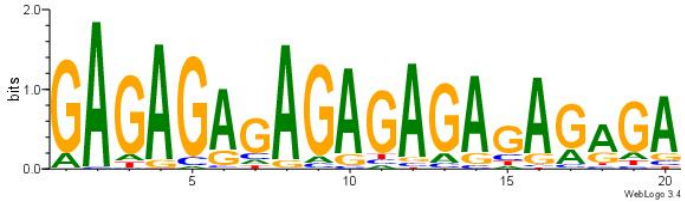

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

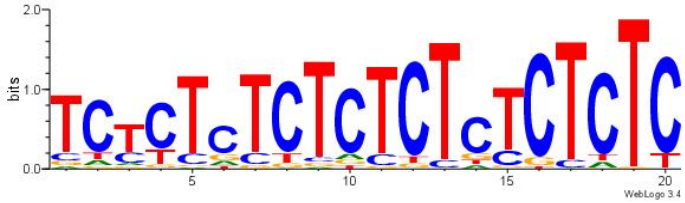

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118788

Alignment:

GGAGCCGGCTCCCTCAGCTT

GCAAAKGACATGATYTCATT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

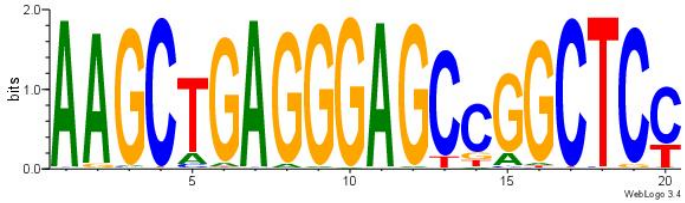

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

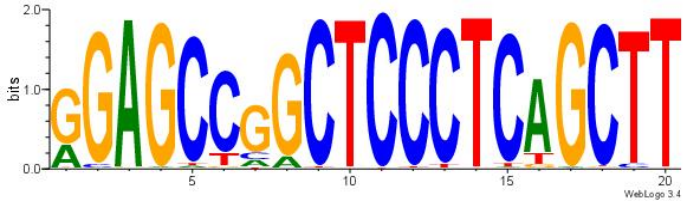

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.120629

Alignment:
VMATTTAKTGAGCACCTACT
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

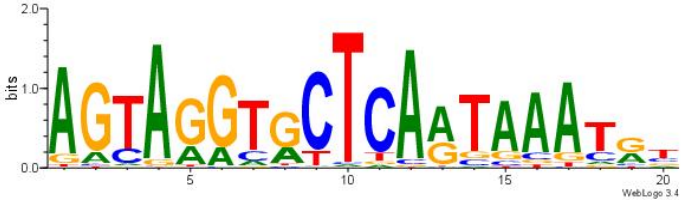

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

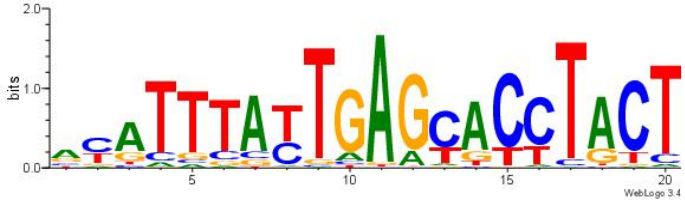

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.121887

Alignment:
TGGAGAACCTTTATGTCTAG
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

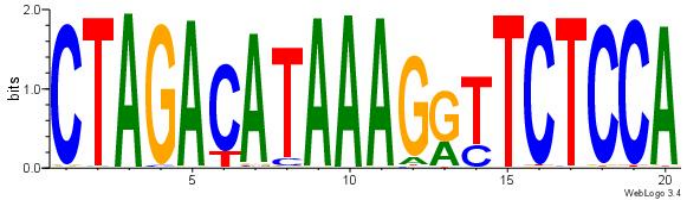

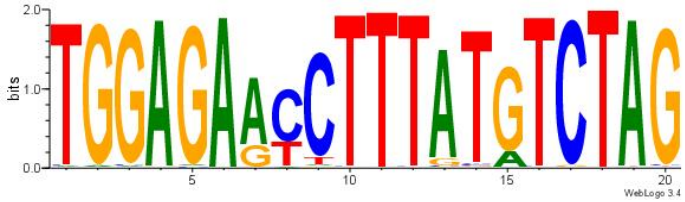

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122106

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

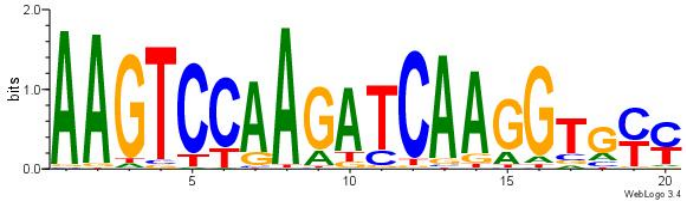

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

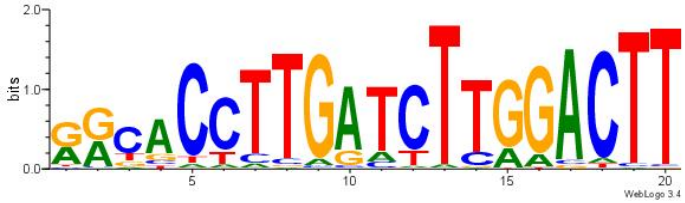

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122264

Alignment:

```
GTTATTAATTGGCCTAATTT
GCAAAKGACATGATYTCATT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

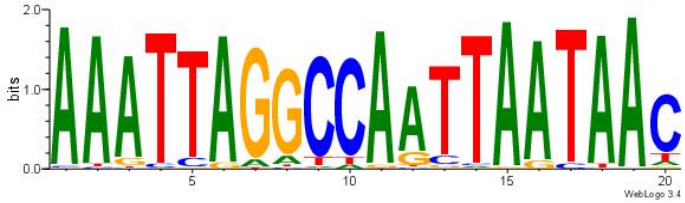

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.12368

Alignment:
ACCKTCGCGGTGAGTGTTAC
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

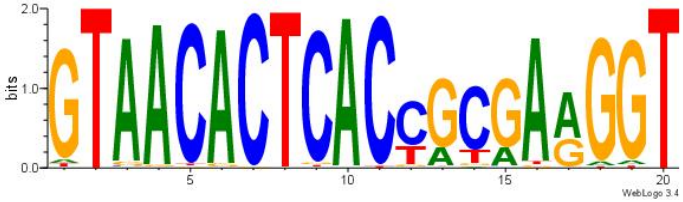

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

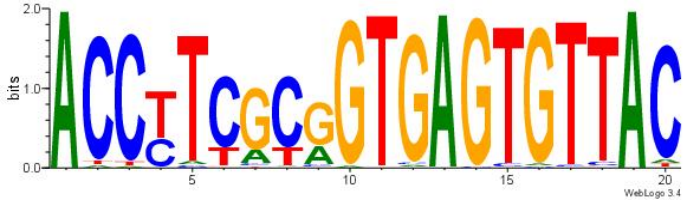

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.12408

Alignment:
ATGGAATAYTATTCAGCCAT
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

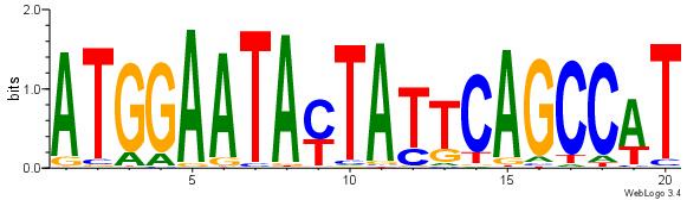

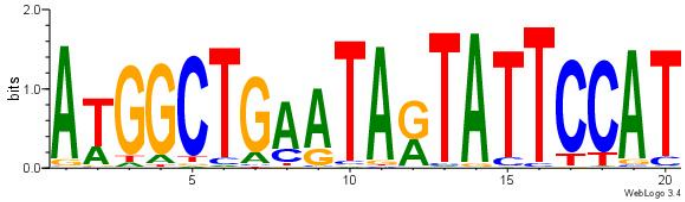

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124413

Alignment:

```
TTGTCCCACTGGAAGGTCTT
GCAAAKGACATGATYTCATT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

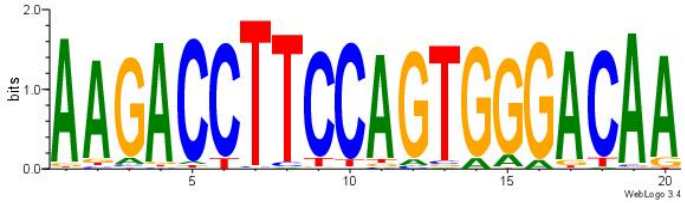

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

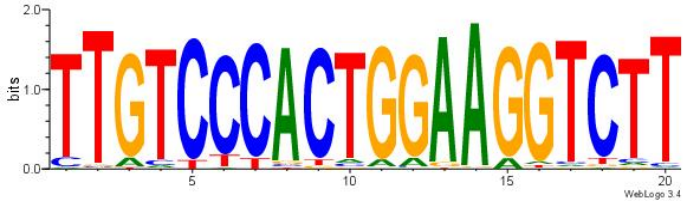

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12444

Alignment:

```
AAAAGTCCACAGTCCAAAGT
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

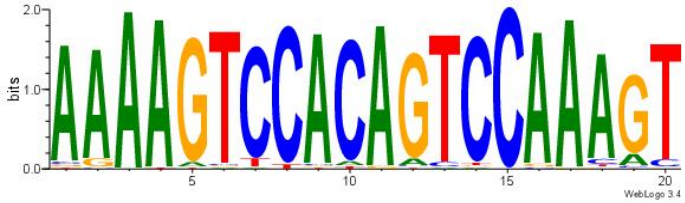

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

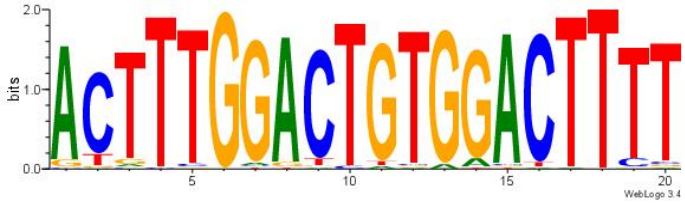

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.124462

Alignment:
AAGCTCGAACTGGGTGGAGC
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

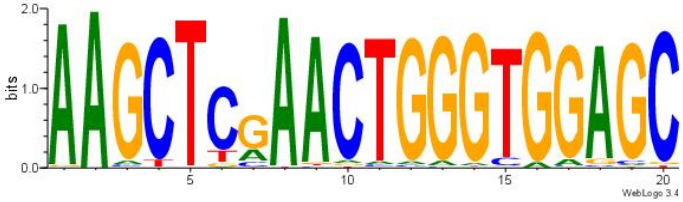

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

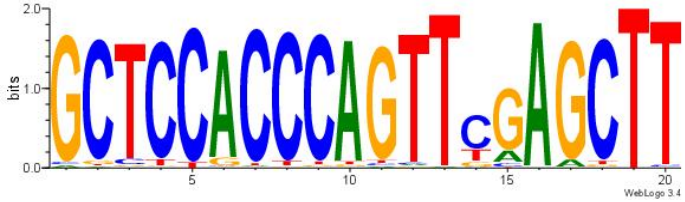

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.125175

Alignment:
CTGGGCRACAGAGYRAGACY
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

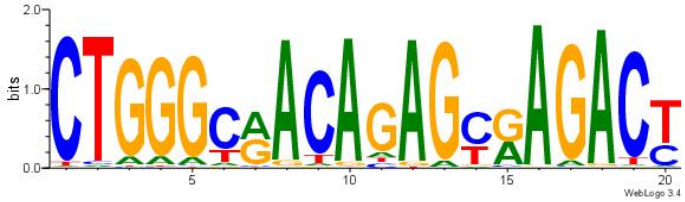

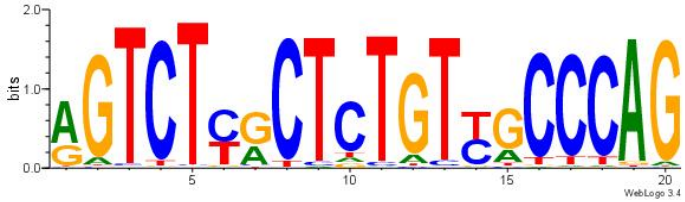

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125545

Alignment:

```
TACCTGAGACTGGGTAATTT
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

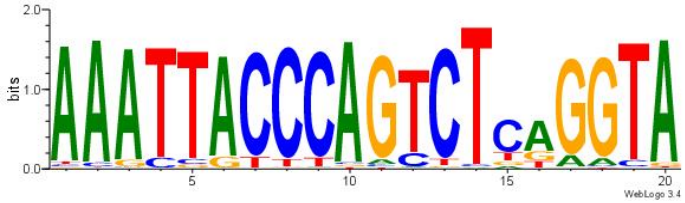

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

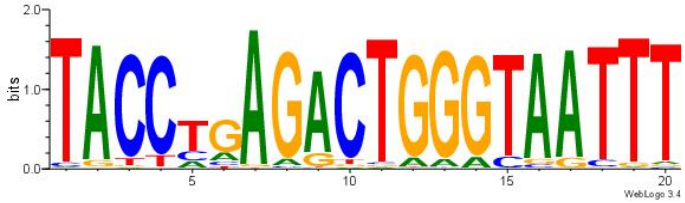

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126895

Alignment:

```
CAGGTGGTKTTTGGTTACAT
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

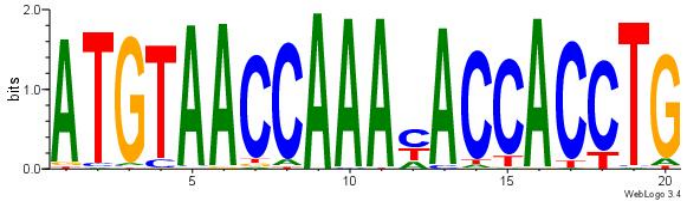

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

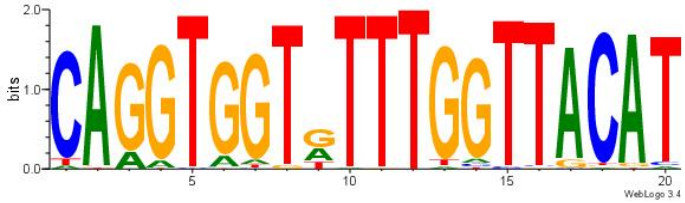

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.126939

Alignment:
GGGTCAGGGAGTTCCCTTTC
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

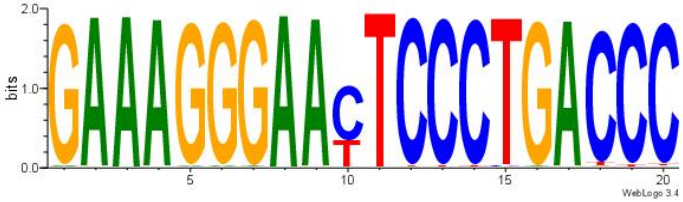

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

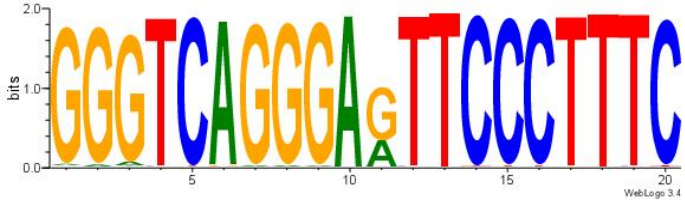

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.127262

Alignment:
GCTGGAGTGCAGTGGCRYGA
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

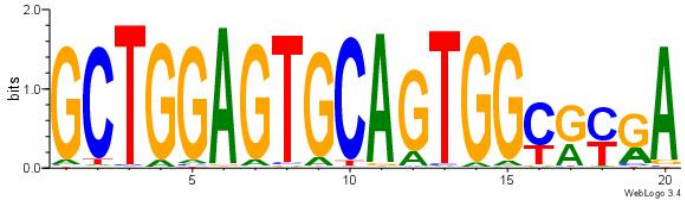

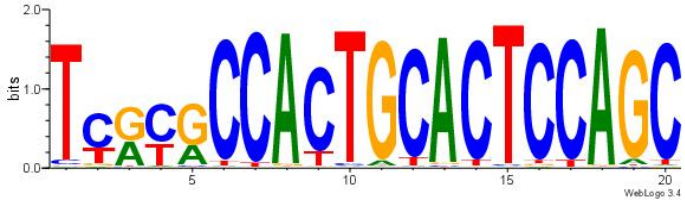

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128401

Alignment:
CTTGCCCAAGGTCACACAGC
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

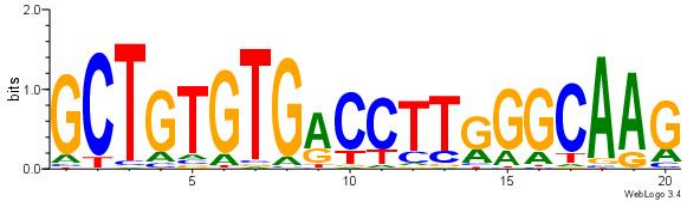

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

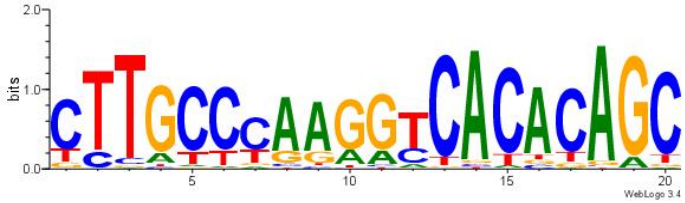

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129298

Alignment:
GTCTCWAMAAAAAAWAMAAA
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

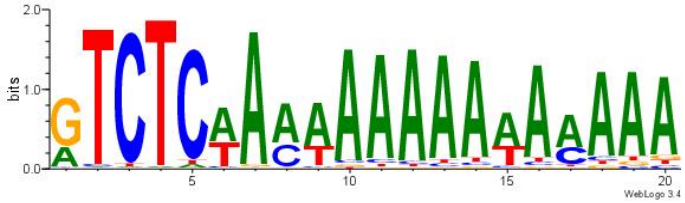

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

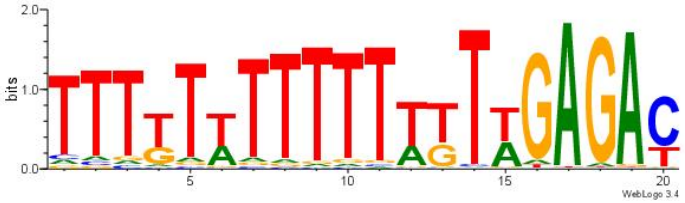

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.129573

Alignment:
AGCTGTGAGAAGAGGGCCAC
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

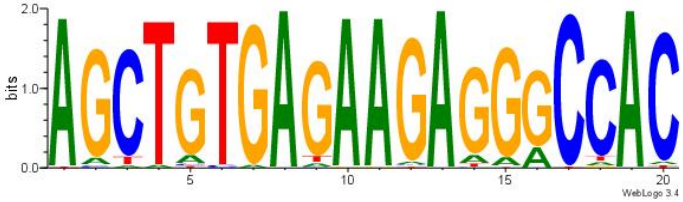

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

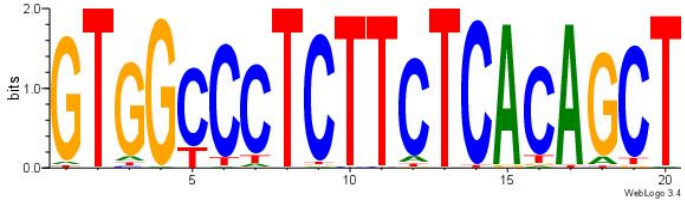

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129978

Alignment:
CTCAGTGTTAATCTCCTGTC
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

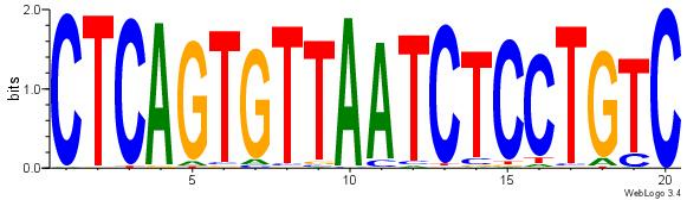

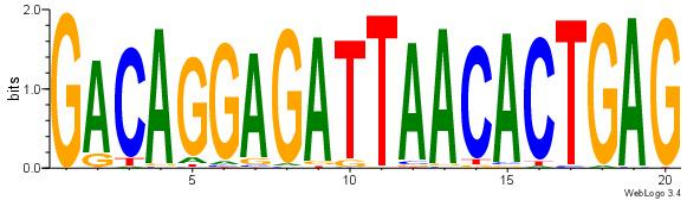

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133287

Alignment:

```
AGGTTTGTTACATAGGTAWA
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

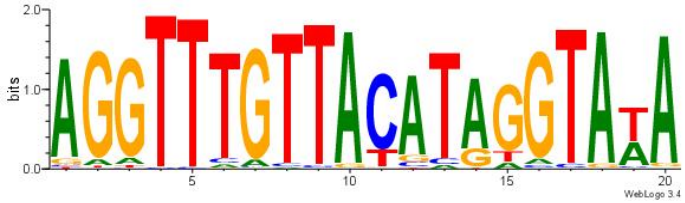

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

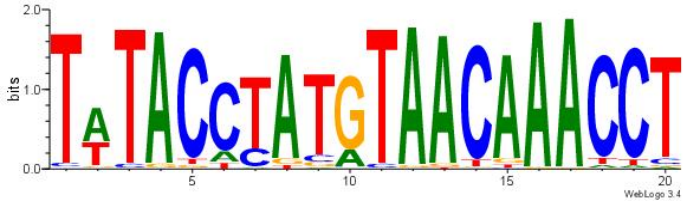

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13352

Alignment:

```
GGATTTMKGACTTGCATGGG
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

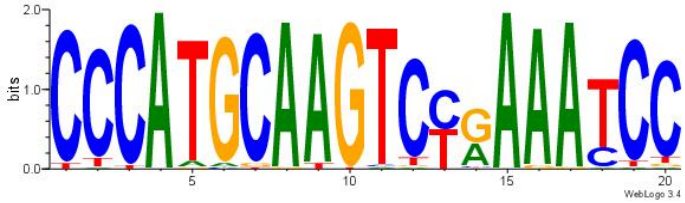

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

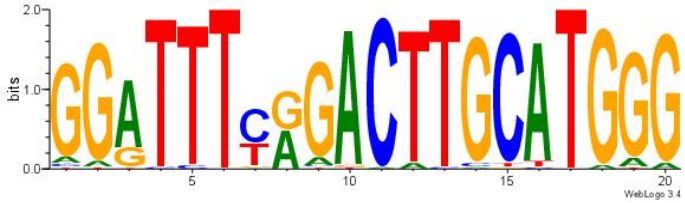

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.134733

Alignment:
CTGGCCCTCAATGGTTAAAC
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

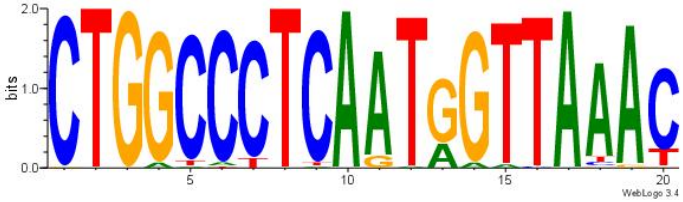

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

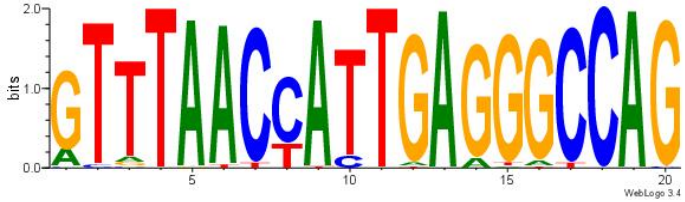

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.134808

Alignment:
AAAGCTGGAGCTATTATCTA
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

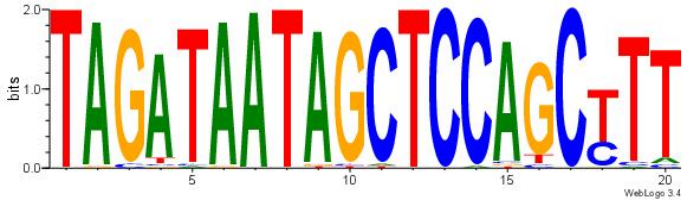

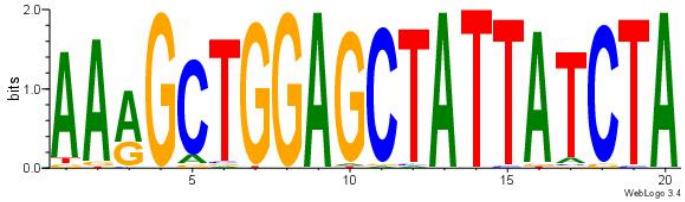

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135394

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AATGAKATCATGTCYTTTGC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

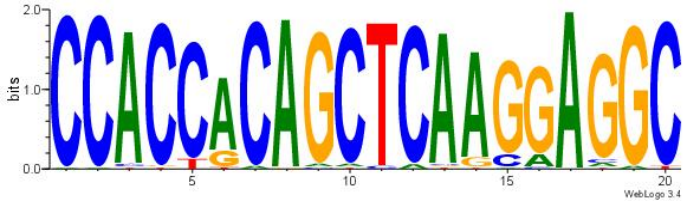

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

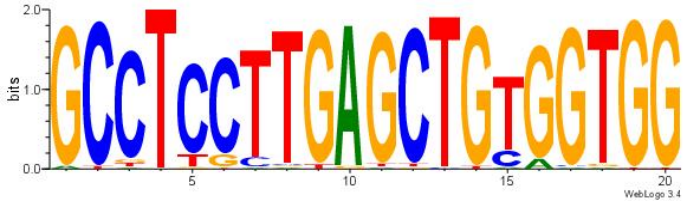

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135634

Alignment:
ATGTGGAGGTGGAAGACAGT
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

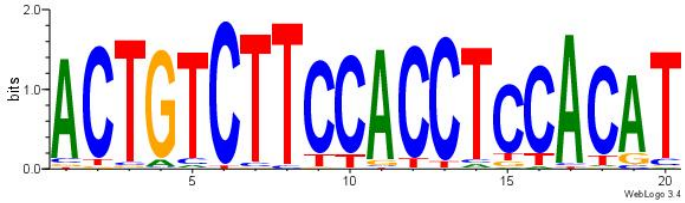

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

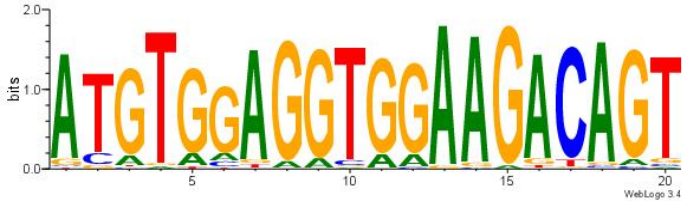

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137551

Alignment:
CTGACTGGGAGACACCTCCC
GCAAAKGACATGATYTCATT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

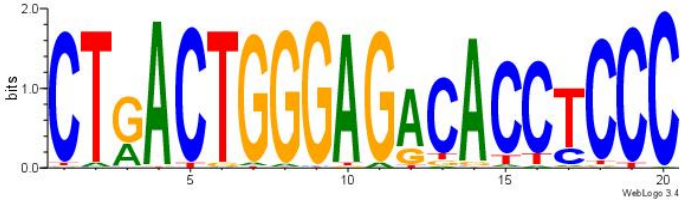

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

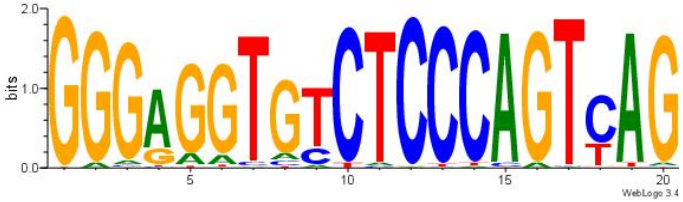

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.138048

Alignment:
GAAGGCAGCTAAGGCCCGGY
AATGAKATCATGTCYTTTGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

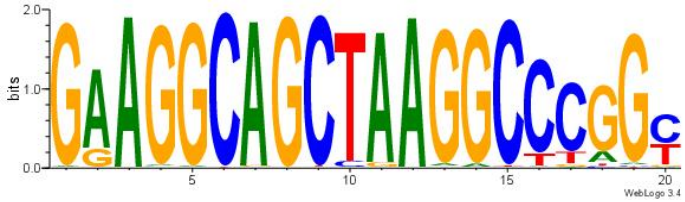

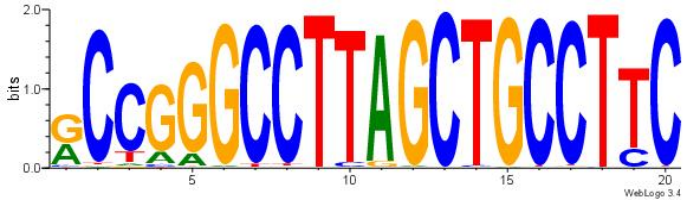

Dataset #: 1 Motif ID: 100 Motif name: Motif 100

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

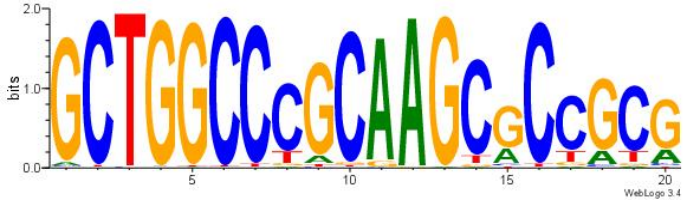

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

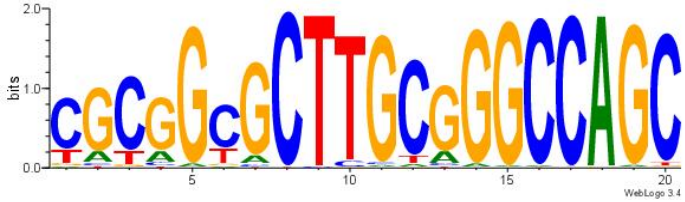

Best Matches for Motif ID 100 (Highest to Lowest)

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.109117

Alignment:

KCCGGGCCTTAGCTGCCTTC
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

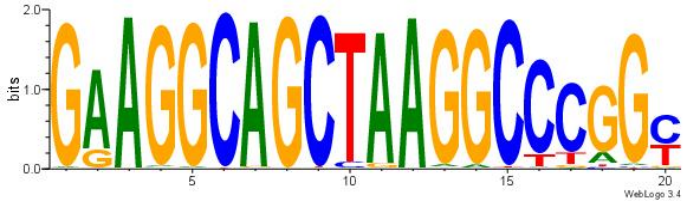

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

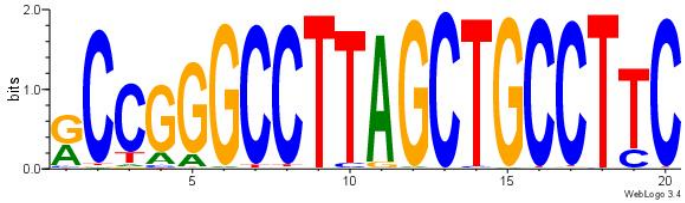

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111065

Alignment:
GCTGGAGTGCAGTGGCRYGA
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

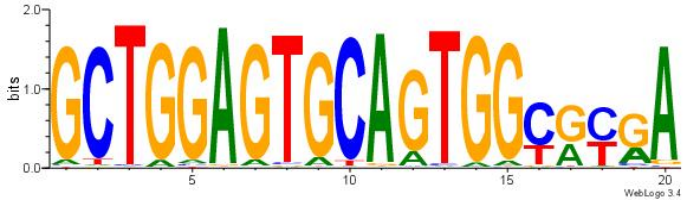

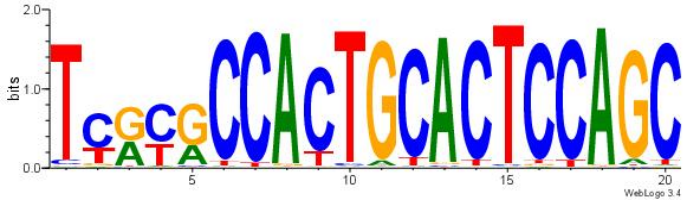

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.112704

Alignment:
GGTGGAGCTGCCTGCCAGTC
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

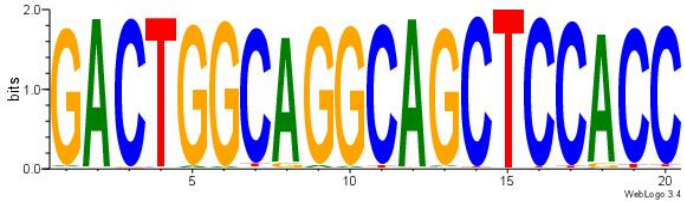

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

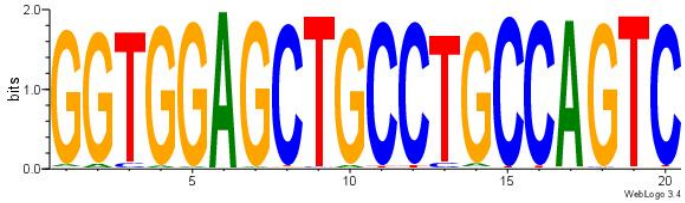

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114051

Alignment:
CTGGGTCCCCCAGCAGTGCC
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

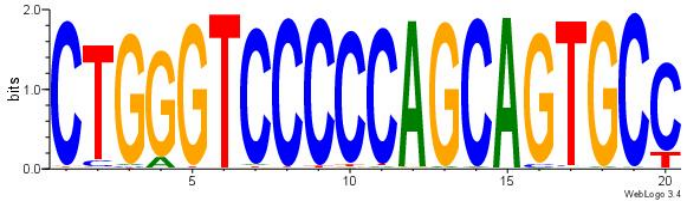

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

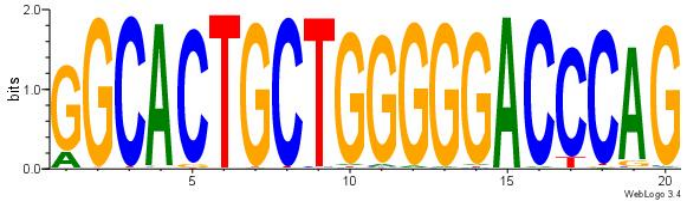

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.12131

Alignment:
GCCKCCCCGTCCGGGAGGGA
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

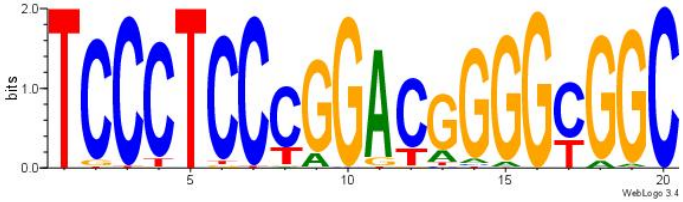

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

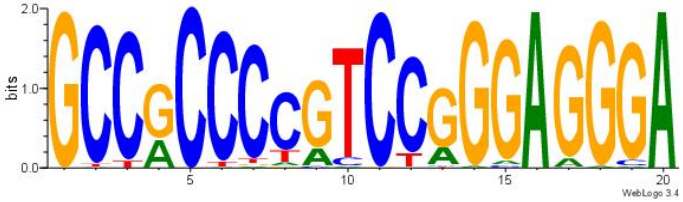

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.122804

Alignment:
TCTGGAGTGGACCTCCAGCA
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

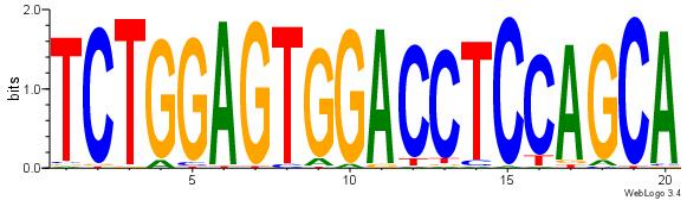

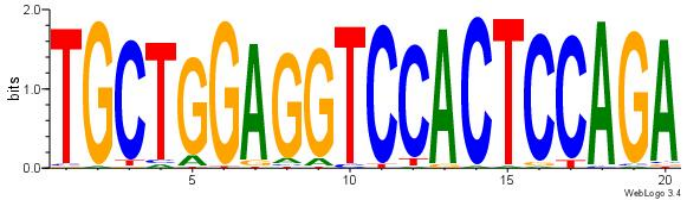

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12677

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

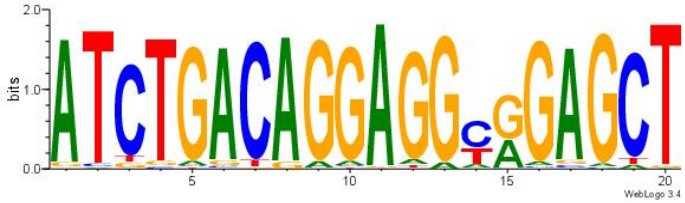

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

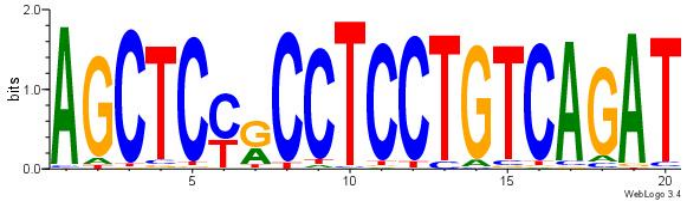

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127423

Alignment:
GCCAGTCACAAAARGACAMA
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

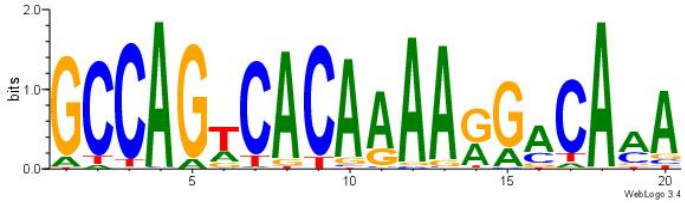

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

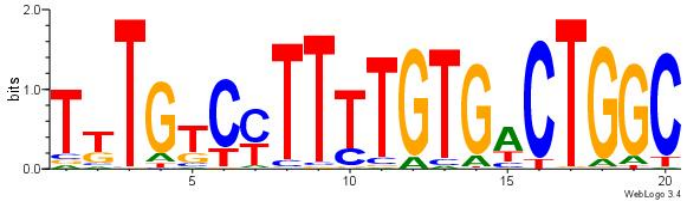

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.127893

Alignment:
AGCTCCCAGCGTGAGCGACG
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

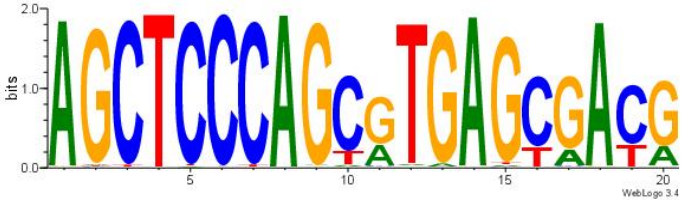

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

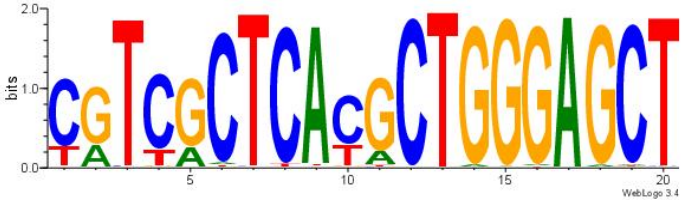

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129059

Alignment:
HAGTGGKATTGCTGGATCAT
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

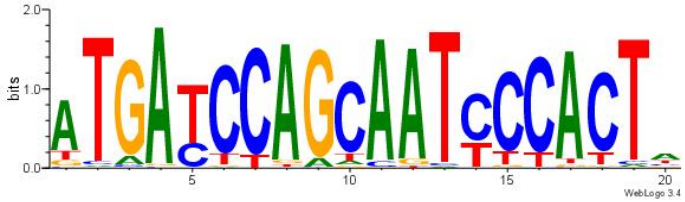

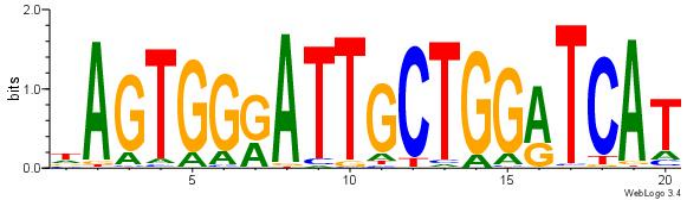

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129256

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

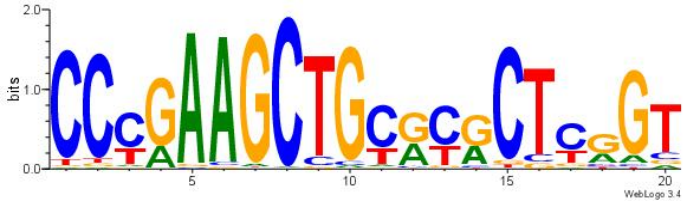

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

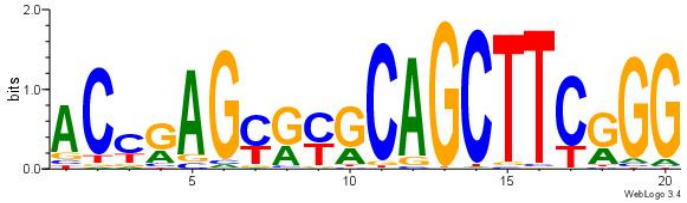

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129316

Alignment:
MGTCTMKCTCTGTKGCCCAG
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

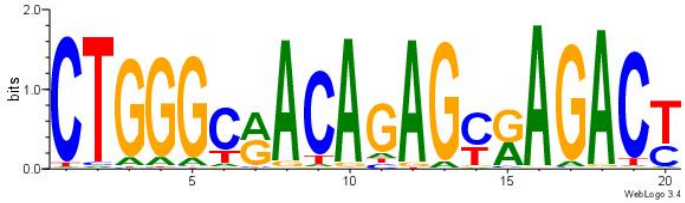

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

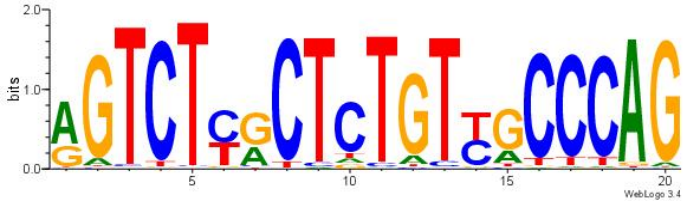

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.130677

Alignment:
CTTGCCCAAGGTCACACAGC
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

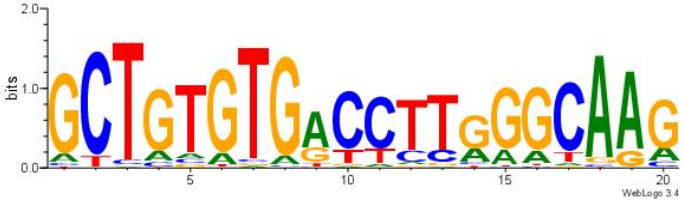

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

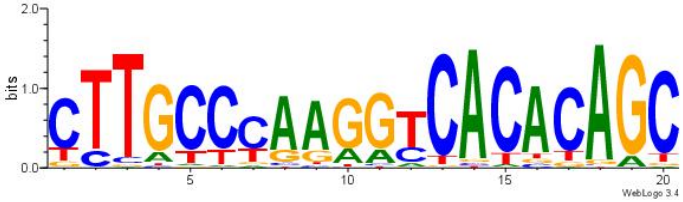

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131974

Alignment:
GCCKGGMKCMGTGGCTCAKG
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

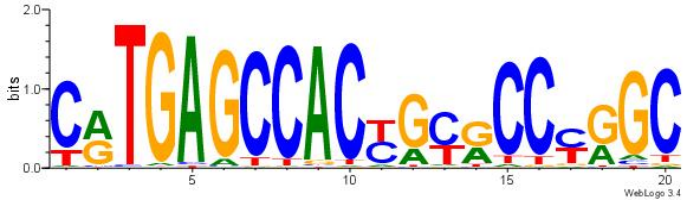

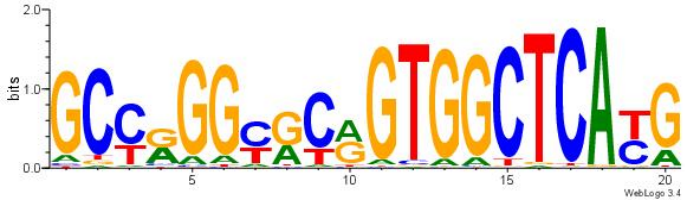

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137349

Alignment:
AGTGACCCGATTTTCCAGGT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

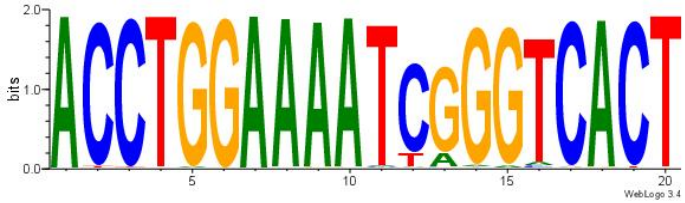

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

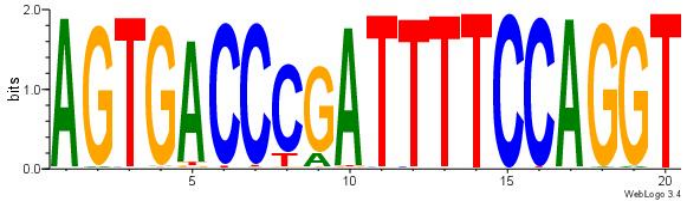

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138124

Alignment:
ATGTGGAGGTGGAAGACAGT
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

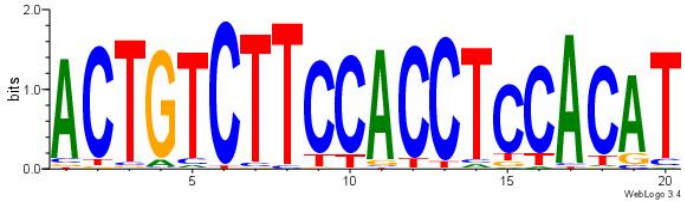

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

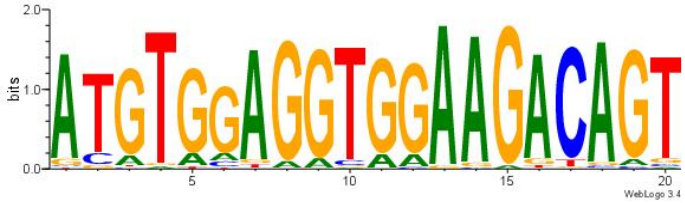

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138287

Alignment:
GTGGCCCTCTTCTCACAGCT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

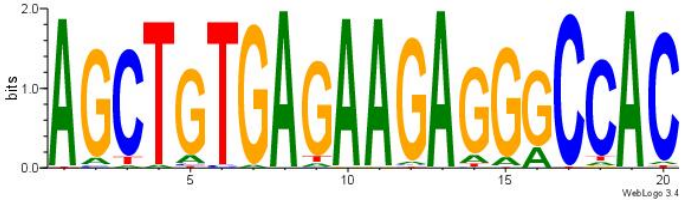

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

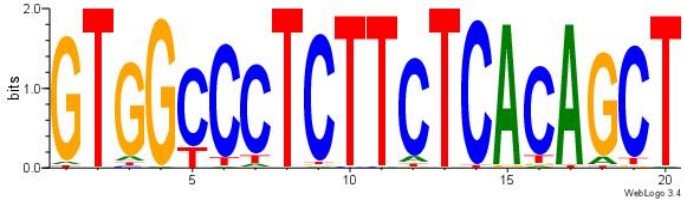

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.138901

Alignment:
CTGGGCTCCTGAGTCTGGTG
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

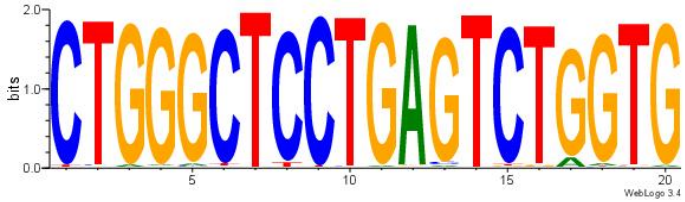

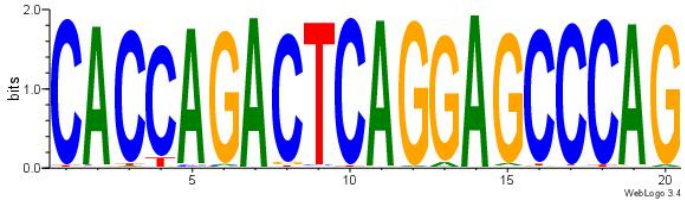

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139297

Alignment:

```
AGCCYCTGGYAACCAYYAWT
GCTGGCCCGCAAGCGCCGCG
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

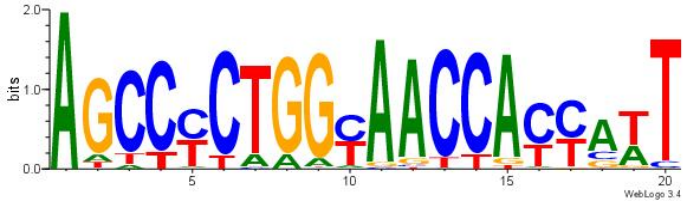

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

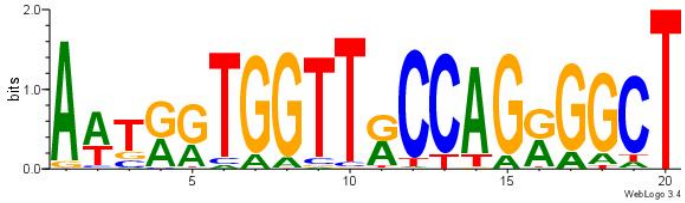

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140248

Alignment:
GCCTCTCCCTCCACACCTCC
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

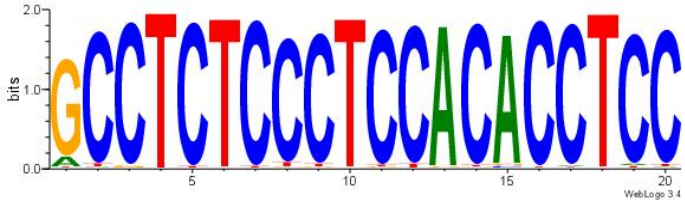

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

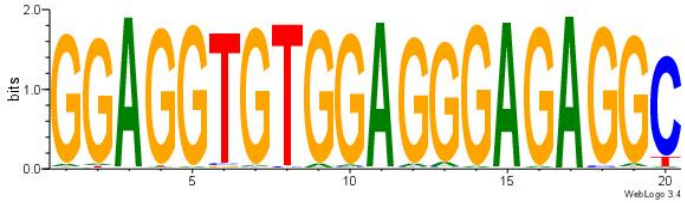

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140436

Alignment:
TMGGGAGGCTGAGGCAGGAG
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

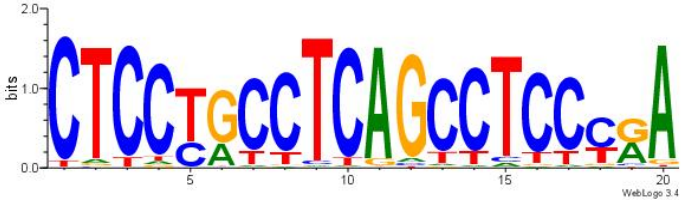

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

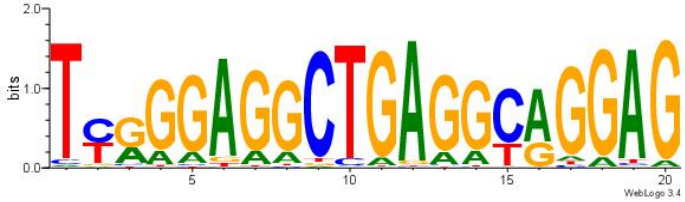

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140943

Alignment:
ACTCCCTAGTGAGATGAACC
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

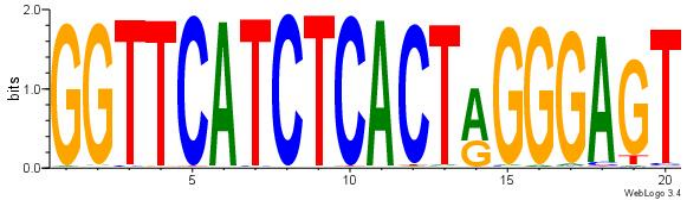

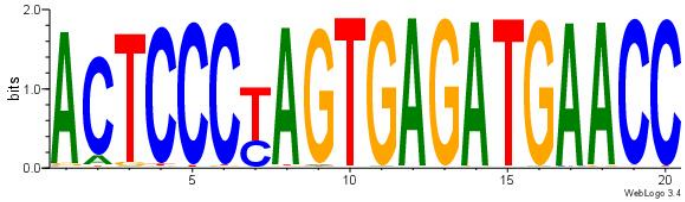

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143163

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

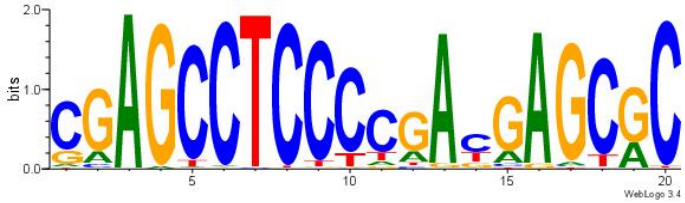

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

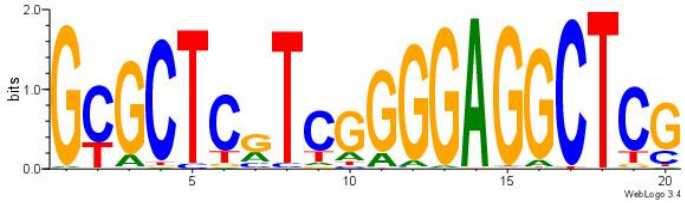

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14459

Alignment:

```
CAAGCCTSKGCAATGGCAGG
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

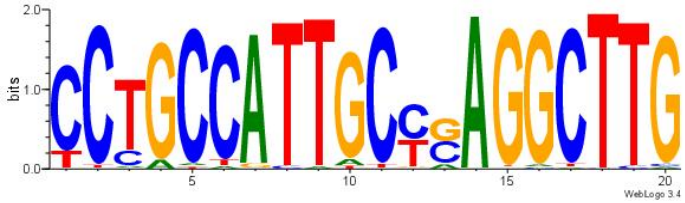

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

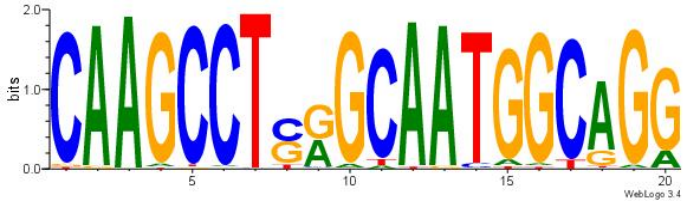

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145705

Alignment:
GAAHCAACCKAAKTGTCCAT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

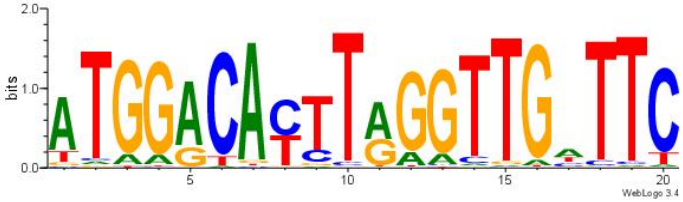

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

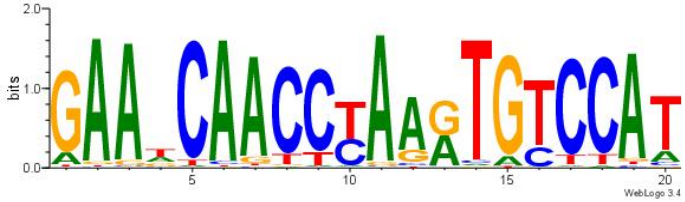

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146712

Alignment:
GACAGGAGATTAACACTGAG
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

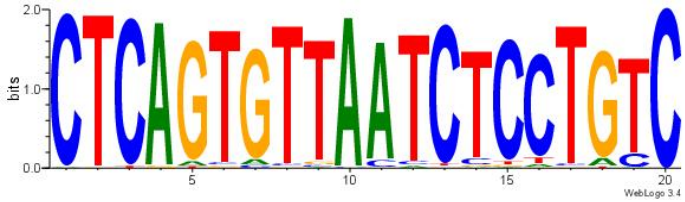

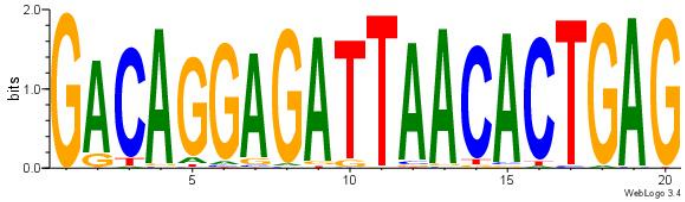

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146824

Alignment:
TCTCTCTCTCTCTCTCTCTC
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

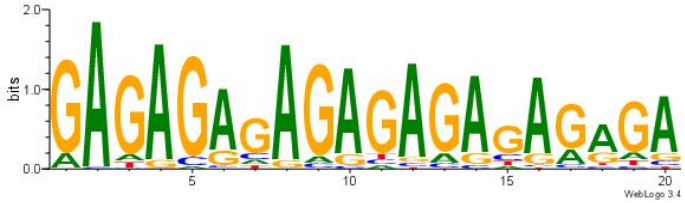

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

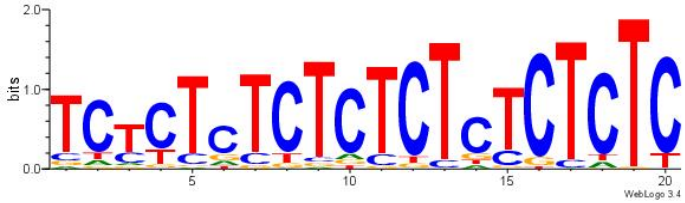

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146949

Alignment:

```
TTGGTAGGATCCGTGATGCC
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

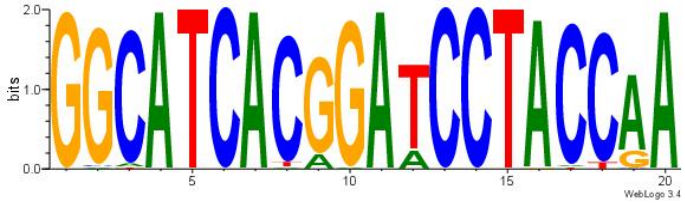

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

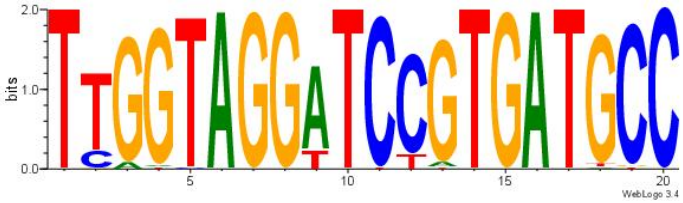

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149928

Alignment:
ACACATCACAAAGCAGTTTC
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

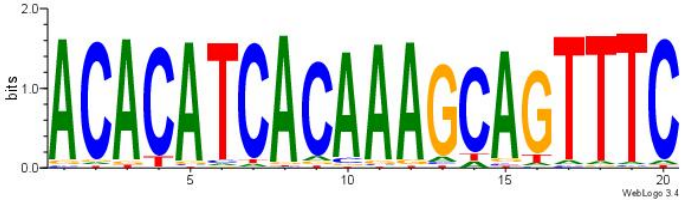

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

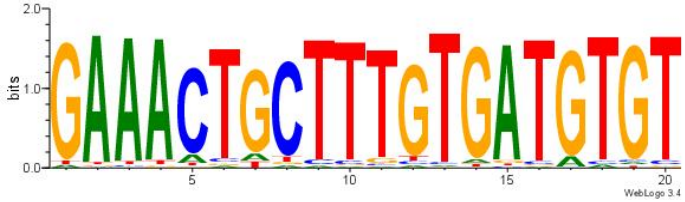

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151019

Alignment:
GGGCTCCCACAGTGCAGCGG
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

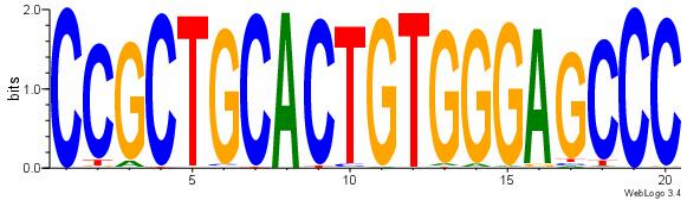

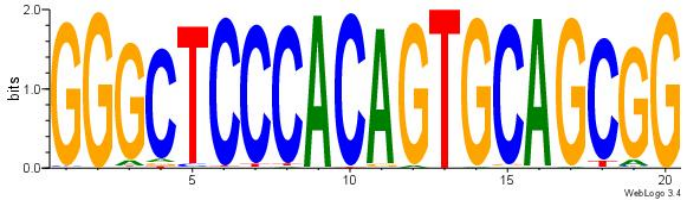

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152258

Alignment:
GCTCCACCCAGTTCGAGCTT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

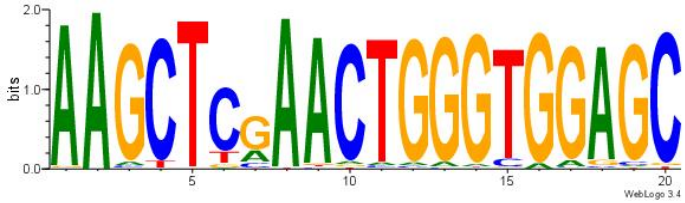

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

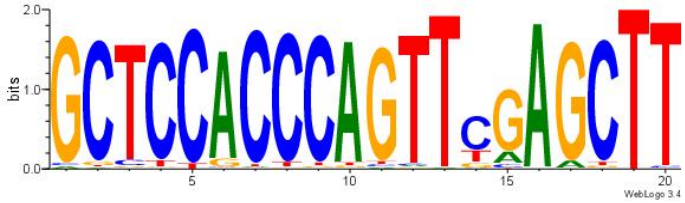

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152566

Alignment:

```
AATCAACCCTGGYRATCAAT
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

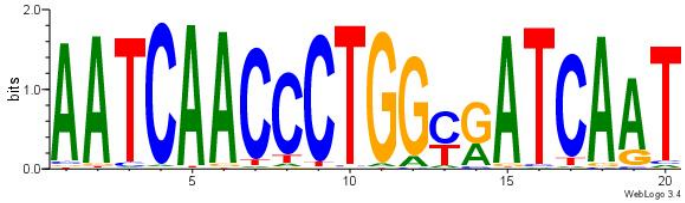

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

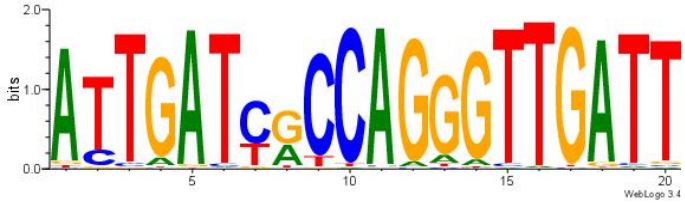

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153513

Alignment:
ACCKTCGCGGTGAGTGTTAC
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

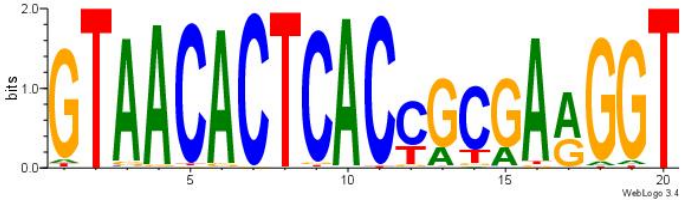

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

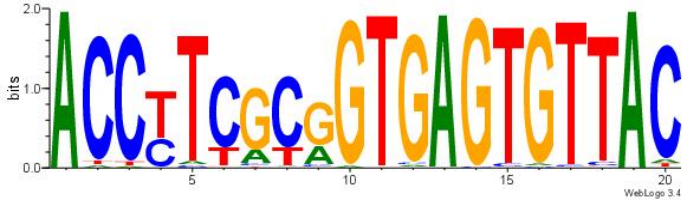

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155326

Alignment:
ACTTTGGACTGTGGACTTTT
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

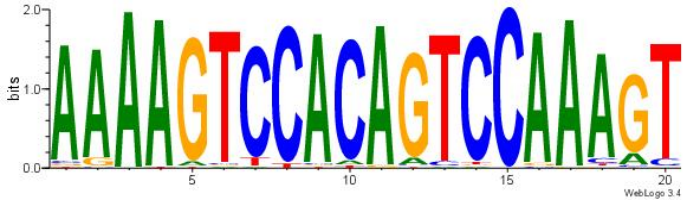

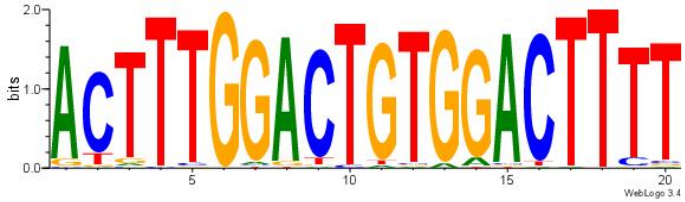

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156175

Alignment:

```
CTAGACATAAAGGTTCTCCA
GCTGGCCCGCAAGCGCCGCG
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

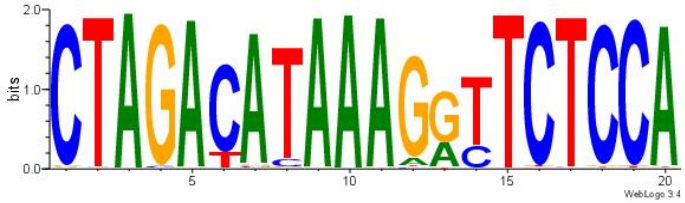

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

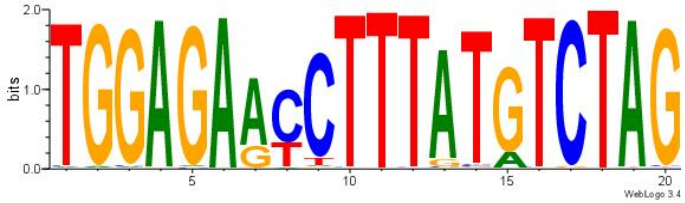

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156937

Alignment:

CMTAGYACAGTGCCTGGCAC
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

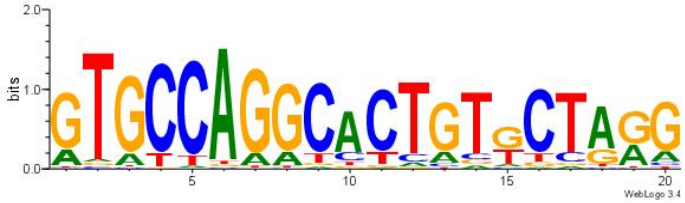

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

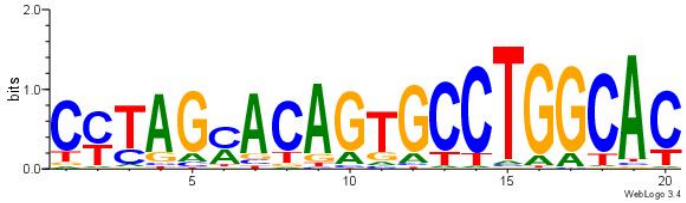

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.158131

Alignment:
AGGCCCCAGTGTSTGTTGTT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

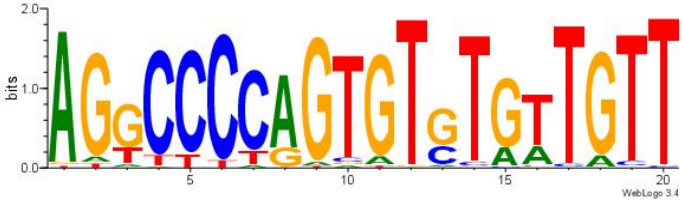

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

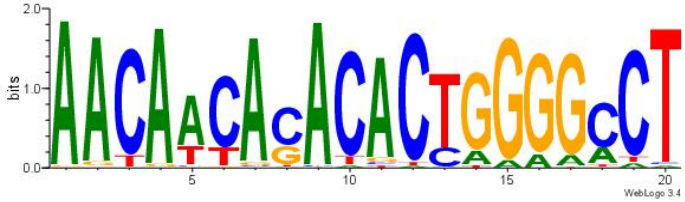

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.158311

Alignment:
GCCTCCTTGAGCTGTGGTGG
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

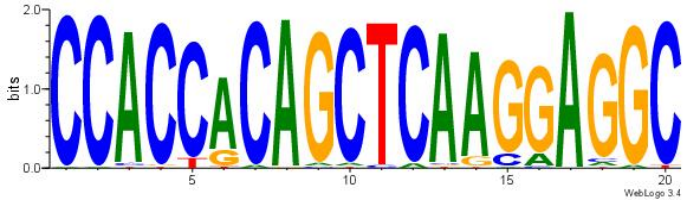

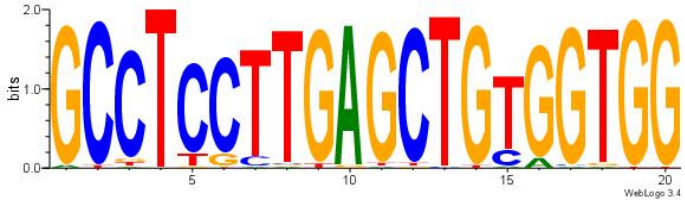

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15956

Alignment:

```
AGGTCCTTCAGGAGGTATTC
CGCGGCGCTTGCGGGCCAGC
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

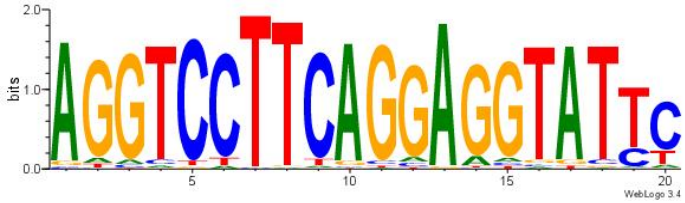

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

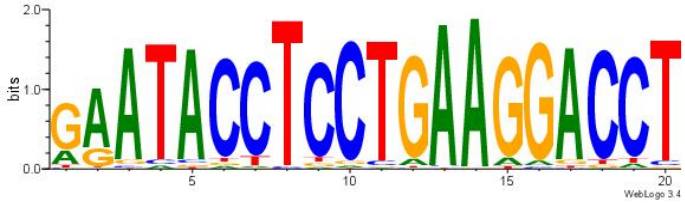

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160033

Alignment:

```
TGGCTTCACCCAGTGGATCC
GCTGGCCCGCAAGCGCCGCG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

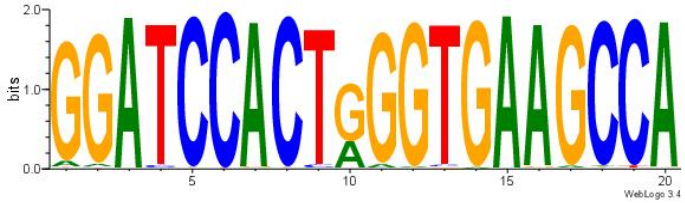

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

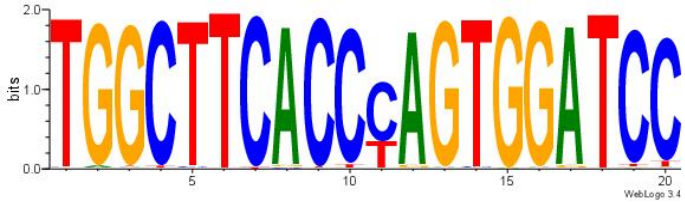

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160293

Alignment:
CTGGCCCTCAATGGTTAAAC
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

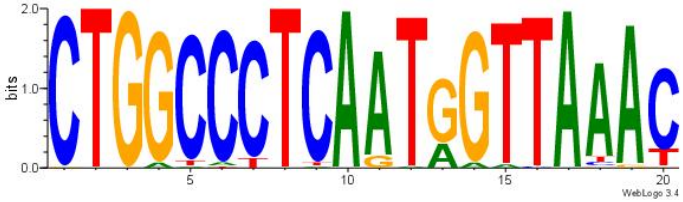

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

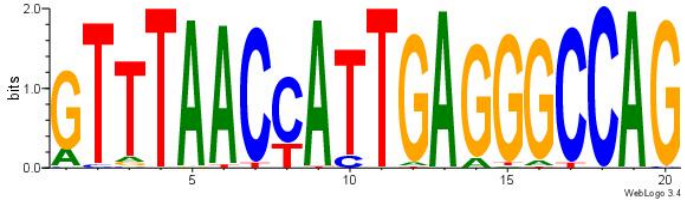

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.161185

Alignment:
CAGGTGGTKTTTGGTTACAT
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

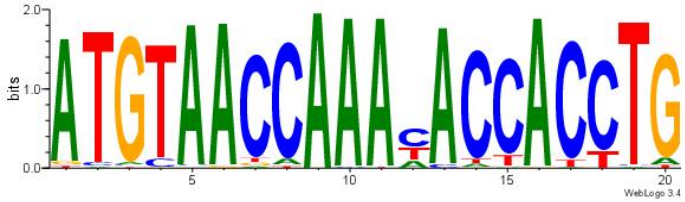

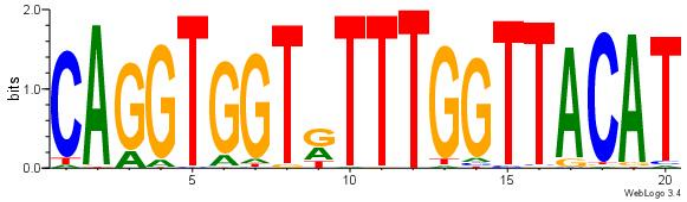

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162114

Alignment:

```
ATTGGTGTATTTACAATCCC
GCTGGCCCGCAAGCGCCGCG
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

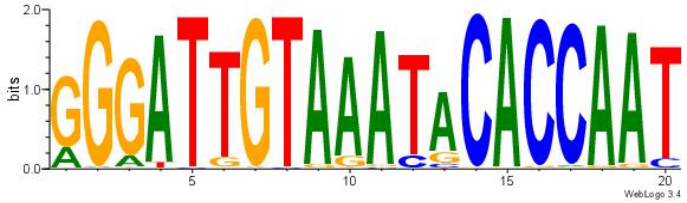

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162248

Alignment:
AGGTTTGTTACATAGGTAWA
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

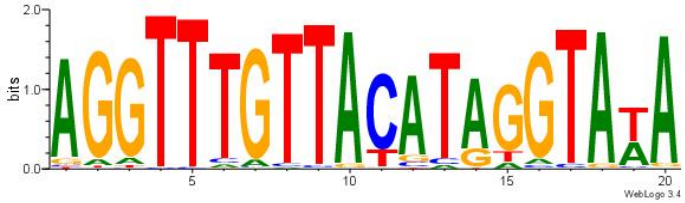

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

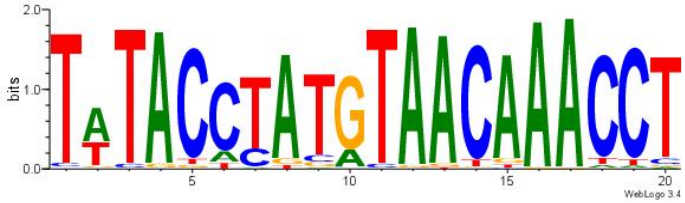

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162352

Alignment:
CCCMKGGCACCCTCAGTCCT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

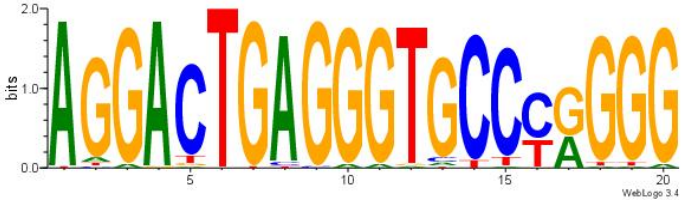

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

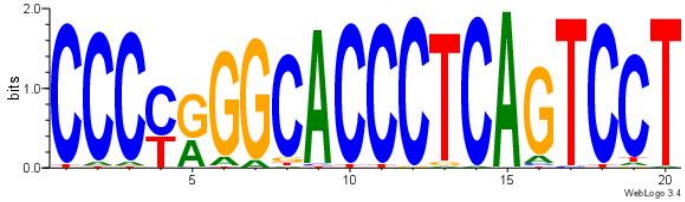

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.162379

Alignment:
AAAATCACAAGCATTCCTAT
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

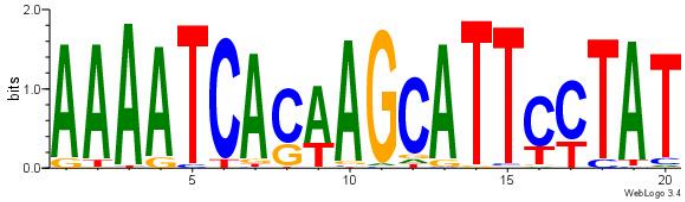

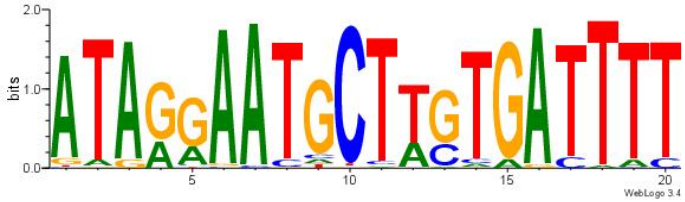

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163945

Alignment:
GGGAGGTGTCTCCCAGTCAG
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

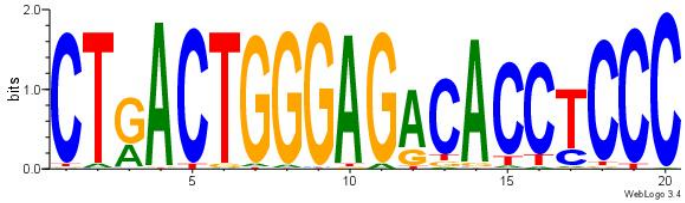

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

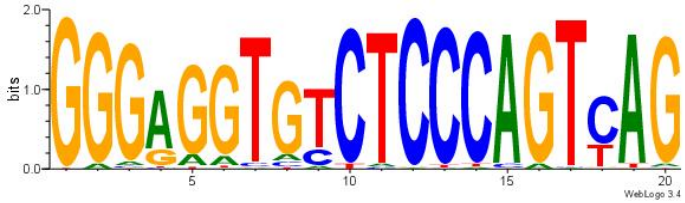

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165145

Alignment:
CATTCTGGGGTCTGGAGGAY
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

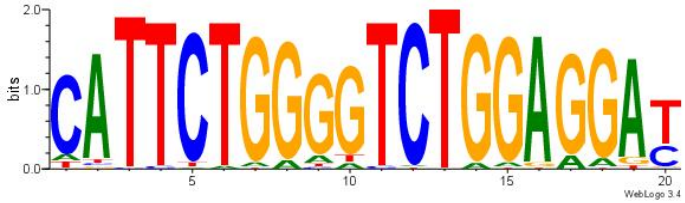

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

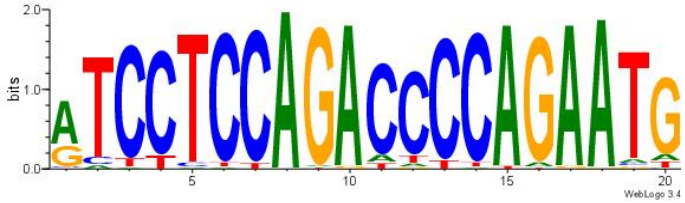

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.166426

Alignment:
GGAGCCGGCTCCCTCAGCTT
CGCGGCGCTTGCGGGCCAGC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

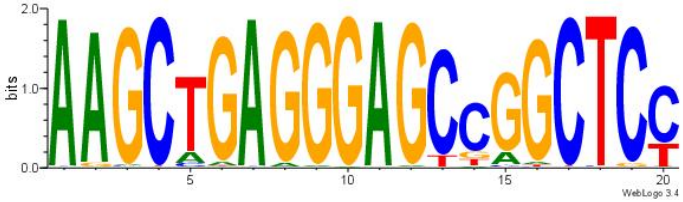

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

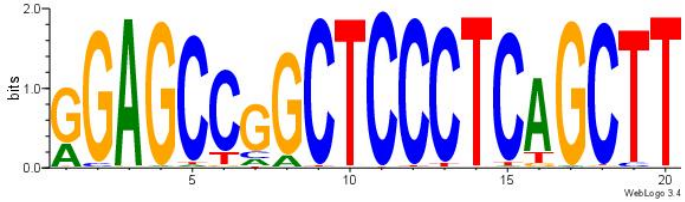

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.166556

Alignment:
VMATTTAKTGAGCACCTACT
GCTGGCCCGCAAGCGCCGCG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

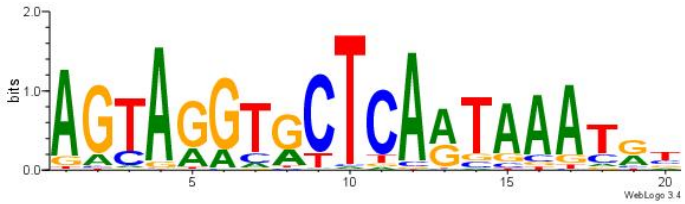

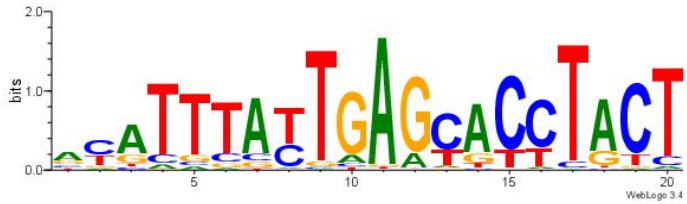

Dataset #: 1 Motif ID: 101 Motif name: Motif 101

Original motif Consensus sequence: CGCCGCCGCCGC

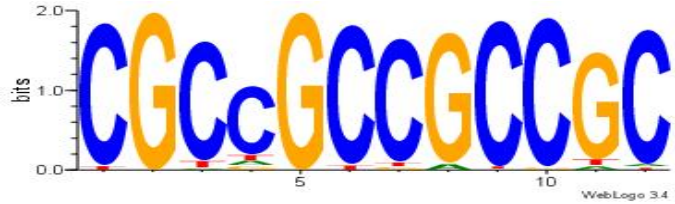

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

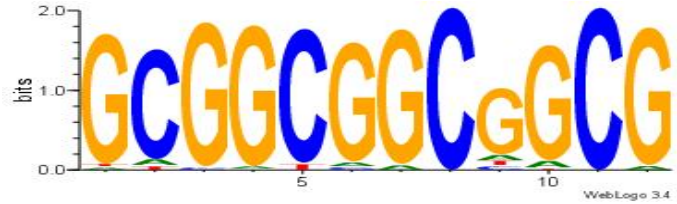

Best Matches for Motif ID 101 (Highest to Lowest)

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0686683

Alignment:

```
GCAGCAGCAGCA
GCGGCGGCGGCG
```

Original motif Consensus sequence: GCAGCAGCAGCA

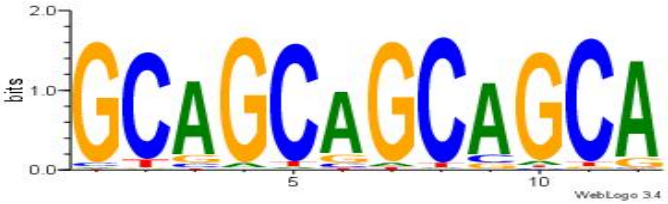

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

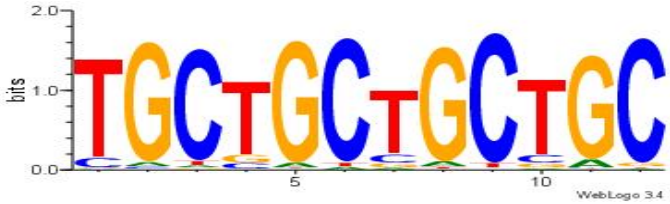

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0752454

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-------CGCCGCCGCCGC-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

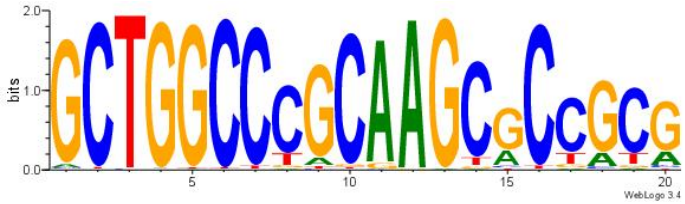

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

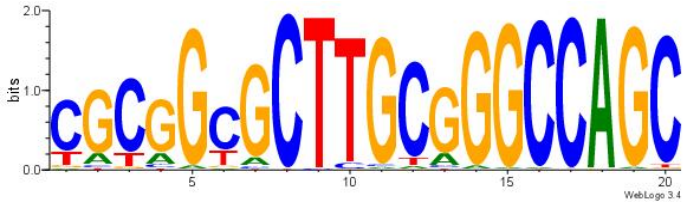

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0783129

Alignment:

```
AGGCGGCTGGGAGG
GCGGCGGCGGCG--
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

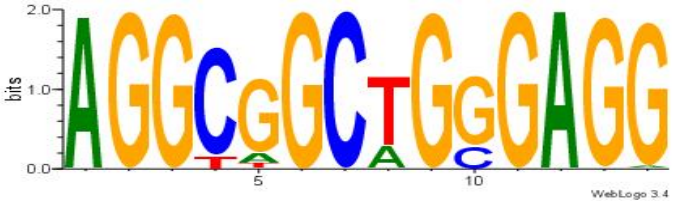

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.078982

Alignment:
CTCCCAGCCGCCTG
--CGCCGCCGCCGC

Original motif Consensus sequence: CAGGCGGCTGGGAG

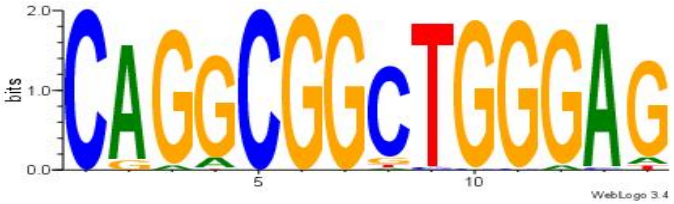

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

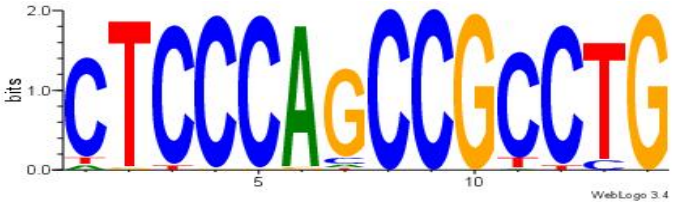

Dataset #: 1
Motif ID: 229
Motif name: Motif 229
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0792901

Alignment:
GCCTTGCTGCCGC
-CGCCGCCGCCGC

Original motif Consensus sequence: GCCTTGCTGCCGC

Reverse complement motif Consensus sequence: GCGGCAGCAAGG

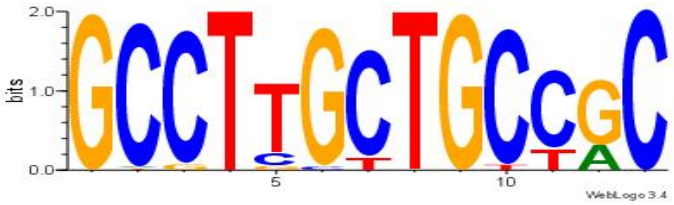

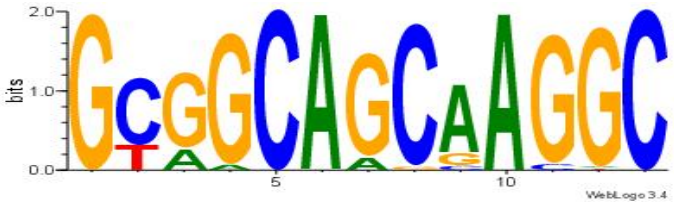

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0805026

Alignment:

```
KGGGCDGAGGGGCTCCT
GCGGCGGCGGCG-----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

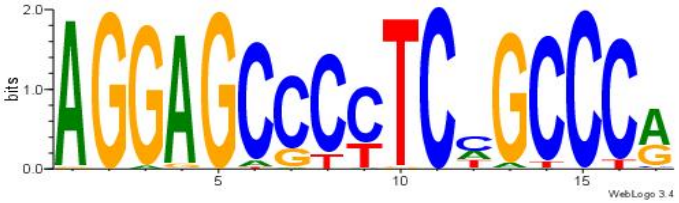

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1

Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.081008

Alignment:

```
GCGGCCGGGCAGAG
GCGGCGGCGGCG--
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

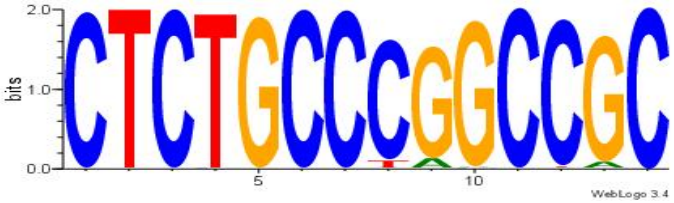

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

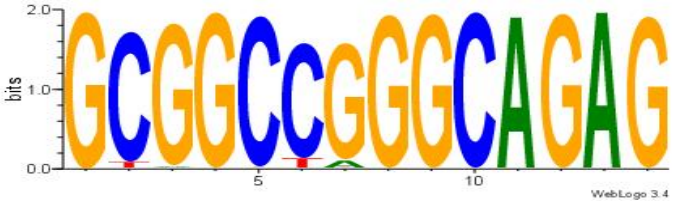

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0847118

Alignment:
TACACCCTCCGCAGCC
-CGCCGCCGCCGC---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

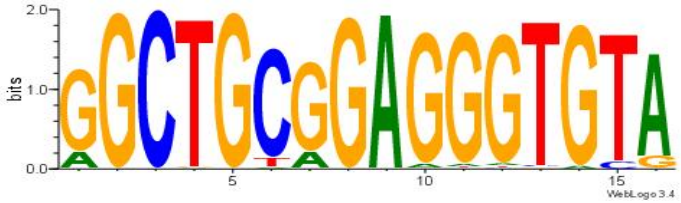

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

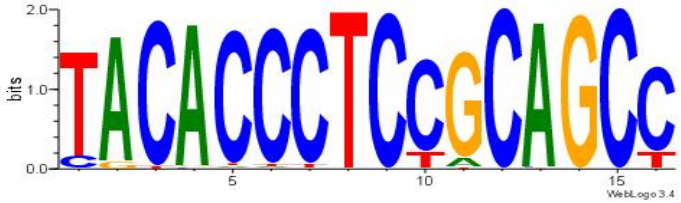

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0853581

Alignment:
CTCCTGCCTCAGCCTCCCRA
----CGCCGCCGCCGC----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

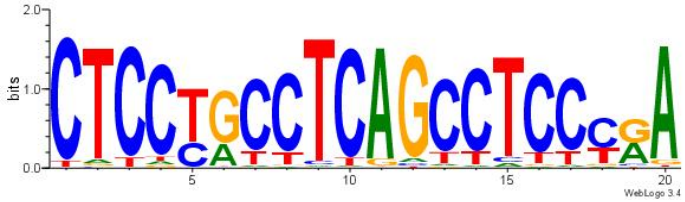

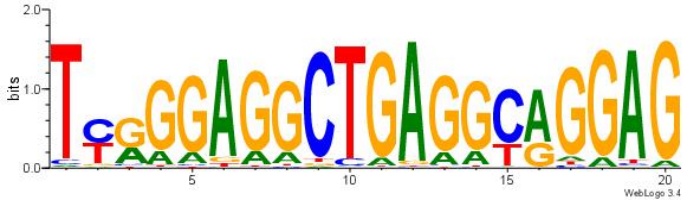

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0893601

Alignment:

```
VCCDCCTCCKCCTCCTC
-----CGCCGCCGCCGC
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

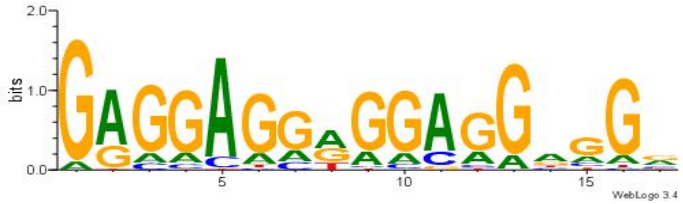

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

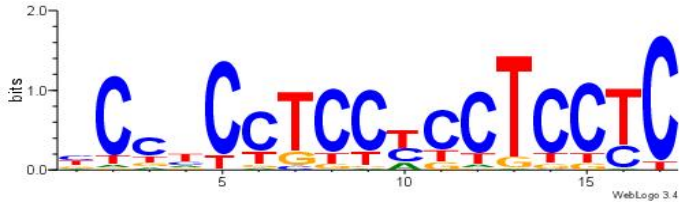

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0894176

Alignment:

```
AGGAGCGCCTCTKCCCGGC
-----CGCCGCCGCCGC--
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

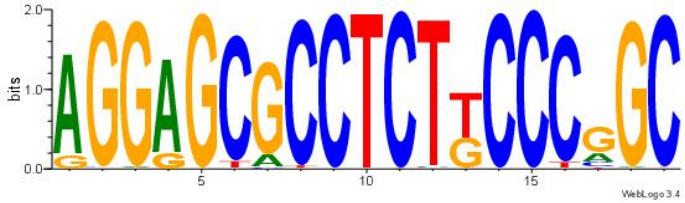

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

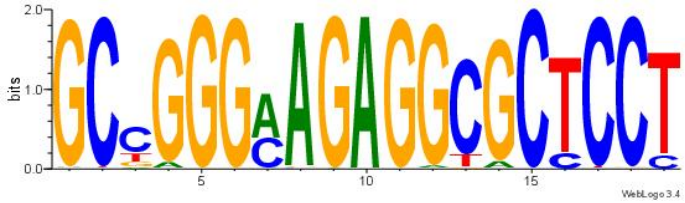

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0903223

Alignment:
GCCTCACTGCCRC
-CGCCGCCGCCGC

Original motif Consensus sequence: GCCTCACTGCCRC

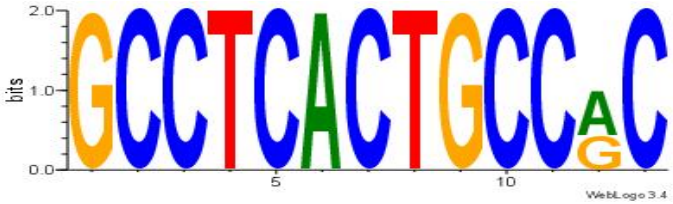

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

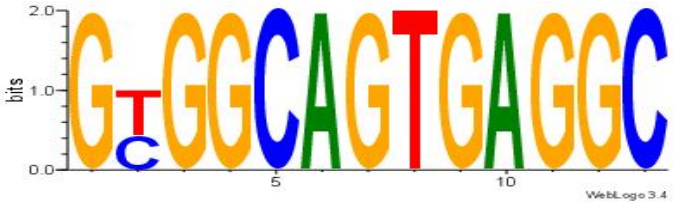

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0911798

Alignment:
TGCACTGCACCCAC
--CGCCGCCGCCGC

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

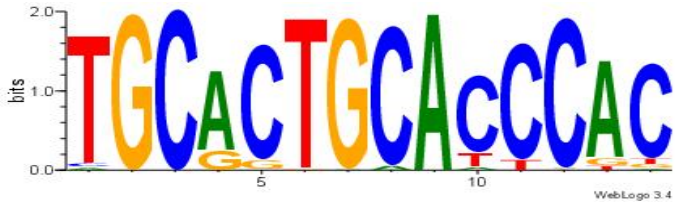

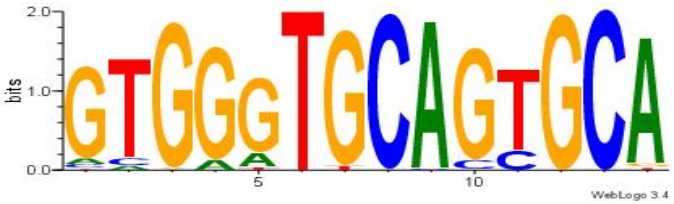

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.091454

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CGCCGCCGCCGC------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

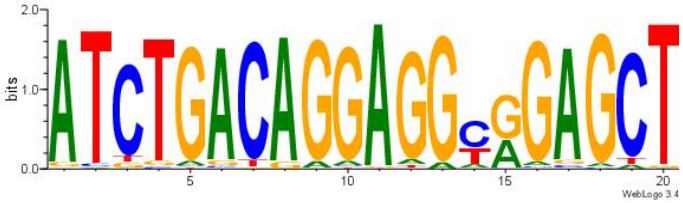

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

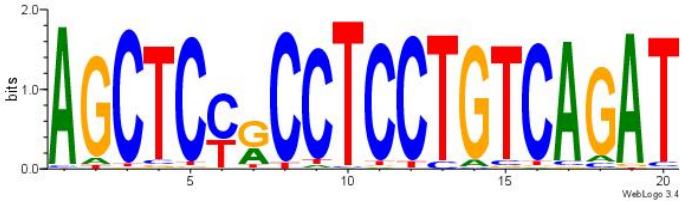

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0928943

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
--CGCCGCCGCCGC------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

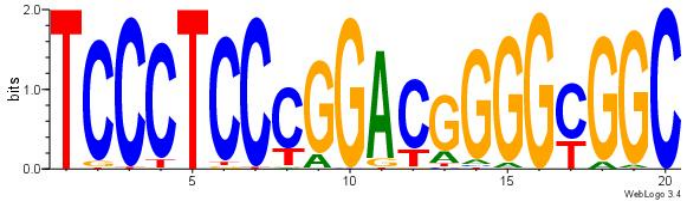

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

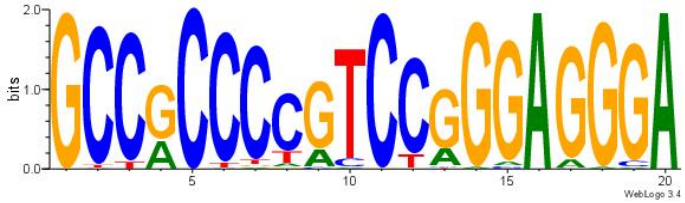

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0930847

Alignment:
CAGACTGCCTCCTCAA
--CGCCGCCGCCGC--

Original motif Consensus sequence: CAGACTGCCTCCTCAA

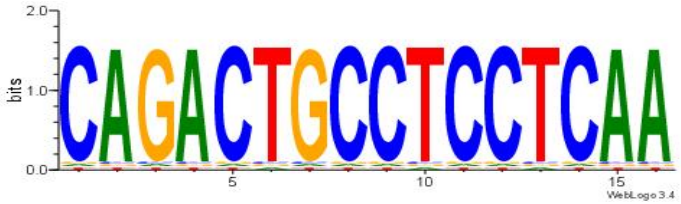

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

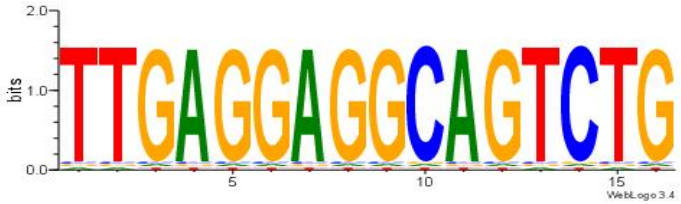

Dataset #: 1
Motif ID: 313
Motif name: Motif 313
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0938733

Alignment:
CTCCTGCCTCAGCY
-CGCCGCCGCCGC-

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

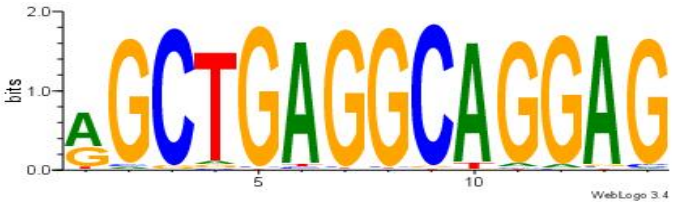

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0941972

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
------GCGGCGGCGGCG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

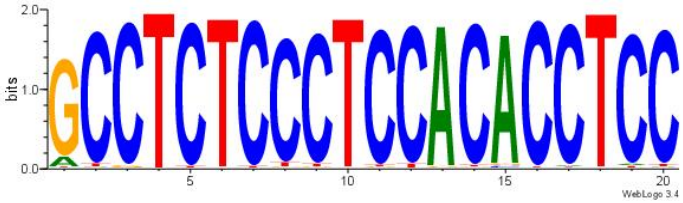

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

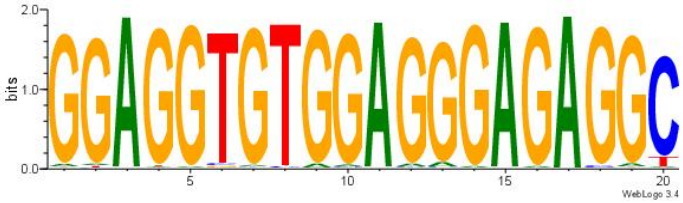

Dataset #:	1

Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0947207

Alignment:

```
TGCAGCCCCGGT
CGCCGCCGCCGC
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

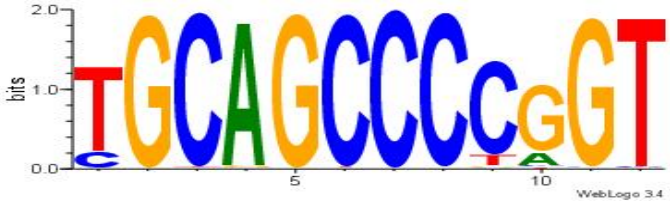

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0951241

Alignment:
GGTGGGGGGGTCAGCCCCC
----GCGGCGGCGGCG---

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

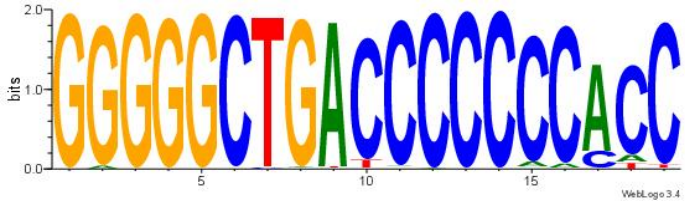

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

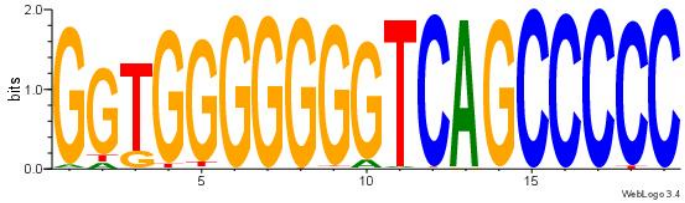

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0957805

Alignment:
GGMGCKGTGGCTC
GCGGCGGCGGCG-

Original motif Consensus sequence: GAGCCACYGCRCC

Reverse complement motif Consensus sequence: GGMGCKGTGGCT

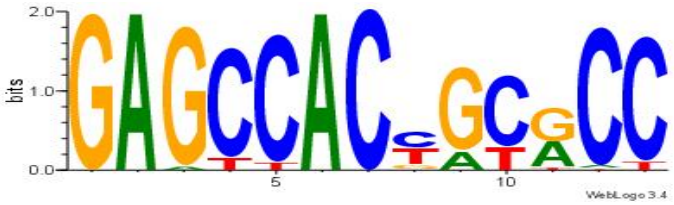

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0962496

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
--CGCCGCCGCCGC------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

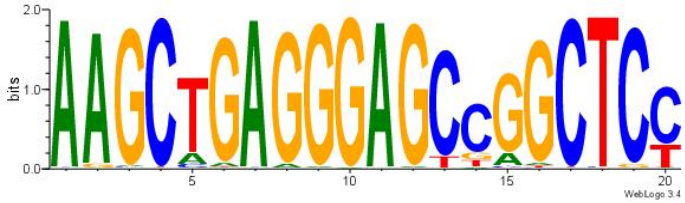

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

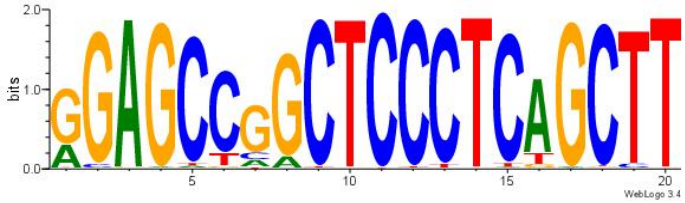

Dataset #: 1

Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0966835

Alignment:

```
GCGGCTGGCCGGGCG
GCGGCGGCGGCG---
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

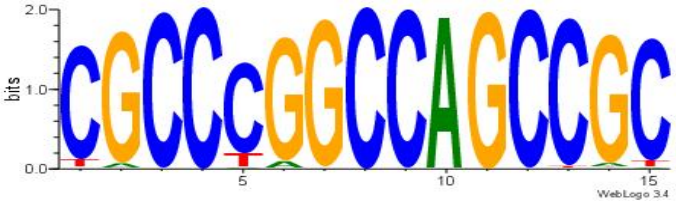

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

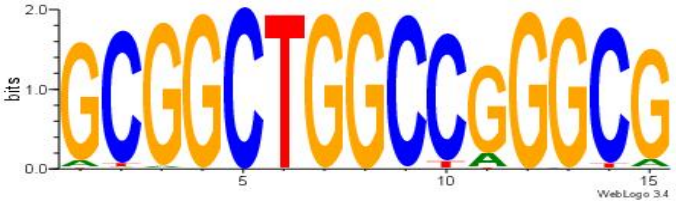

Dataset #:	1
Motif ID:	197
Motif name:	Motif 197
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0974965

Alignment:
GCTGGCCGGGCG
GCGGCGGCGGCG

Original motif Consensus sequence: CGCCCGGCCAGC

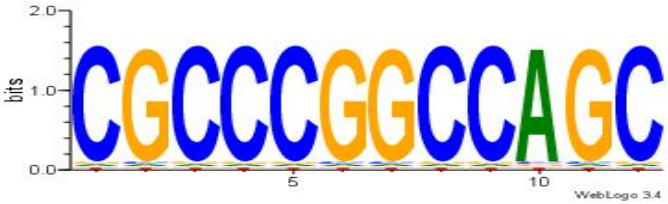

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

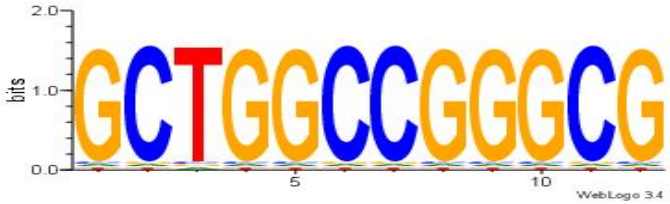

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0979131

Alignment:
AGCTCCCAGCGTGAGCGACG
GCGGCGGCGGCG--------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

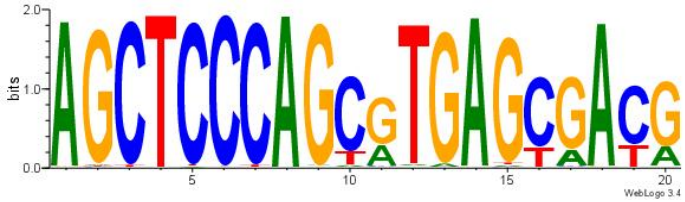

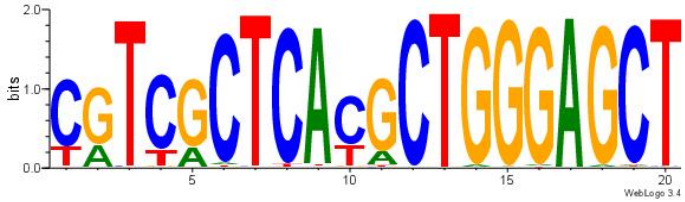

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0983074

Alignment:

```
CRTGAGCCACYGYRCCYGGC
----CGCCGCCGCCGC----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

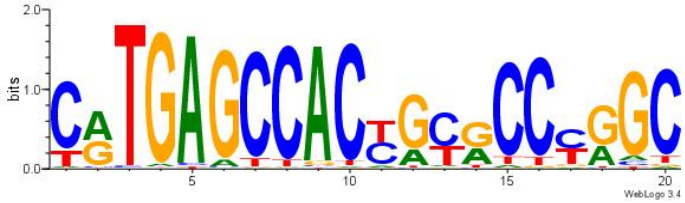

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

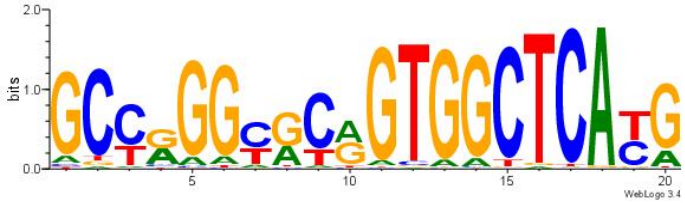

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0994425

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
----CGCCGCCGCCGC----
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

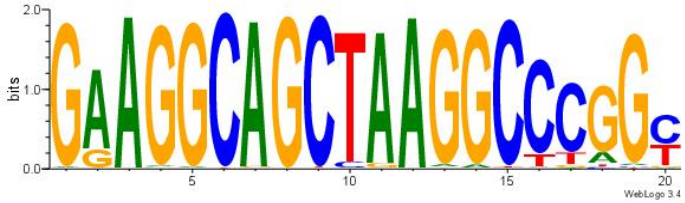

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

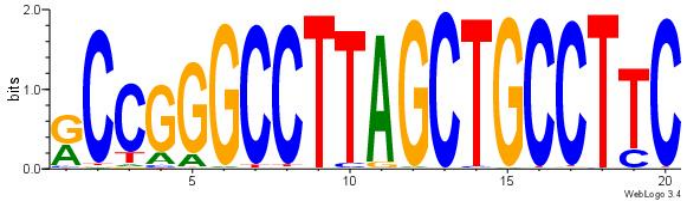

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.100039

Alignment:
CCGCACTCGGAGCRG
-CGCCGCCGCCGC--

Original motif Consensus sequence: CCGCACTCGGAGCRG

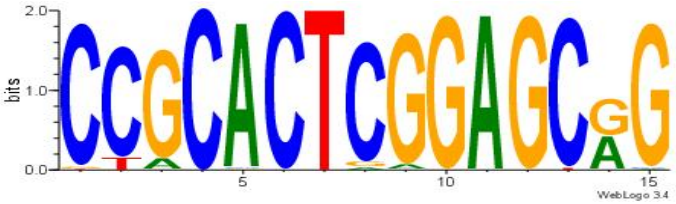

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

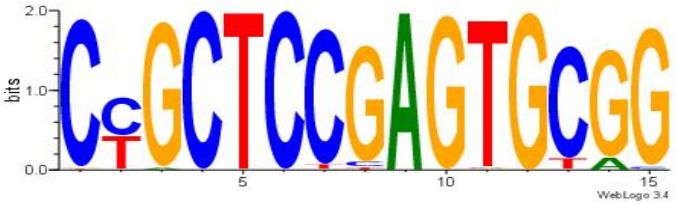

Dataset #: 1
Motif ID: 183
Motif name: Motif 183
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.100482

Alignment:
GCCRGCCCTGCYGGCC
--CGCCGCCGCCGC--

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

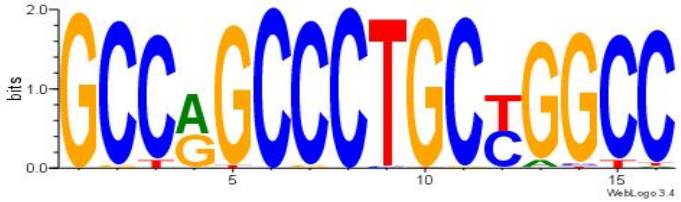

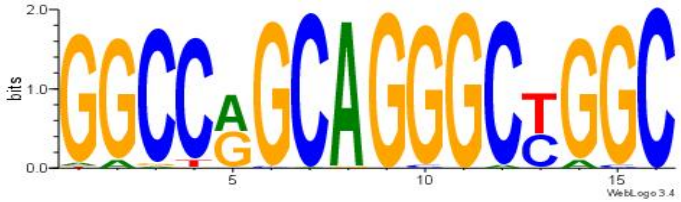

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.101612

Alignment:

```
CCCACGCCCACCCGGAACT
------CGCCGCCGCCGC-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

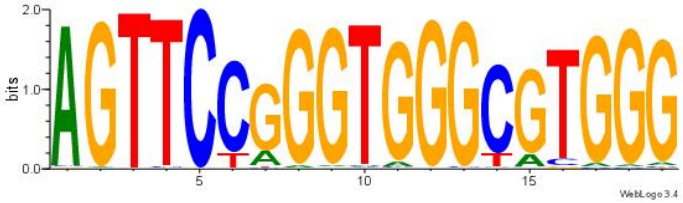

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

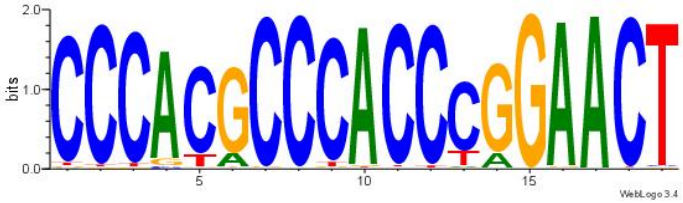

Dataset #:	1

Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.102058

Alignment:

```
CKCGTCSGGGAGG
-GCGGCGGCGGCG
```

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

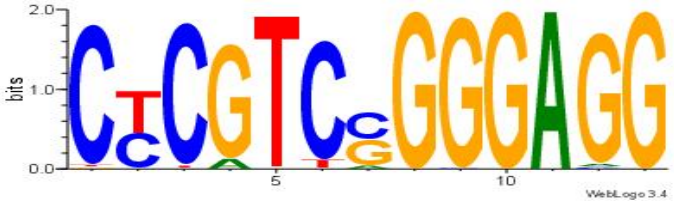

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.102237

Alignment:
GCGCACGGCGCGG
GCGGCGGCGGCG-

Original motif Consensus sequence: GCGCACGGCGCGG

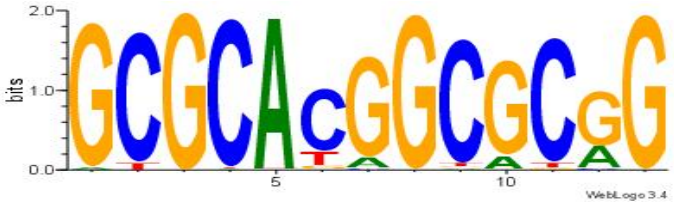

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

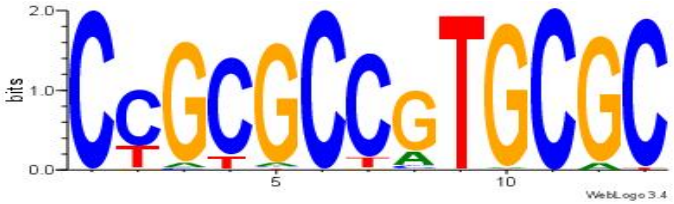

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.102672

Alignment:
CCTCCGTGGGCTCC
-CGCCGCCGCCGC-

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

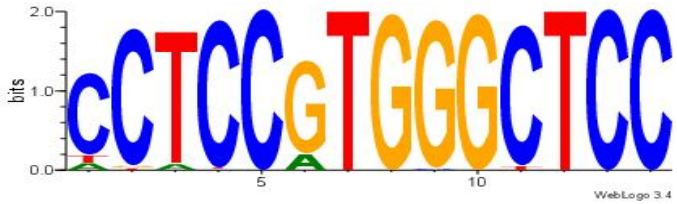

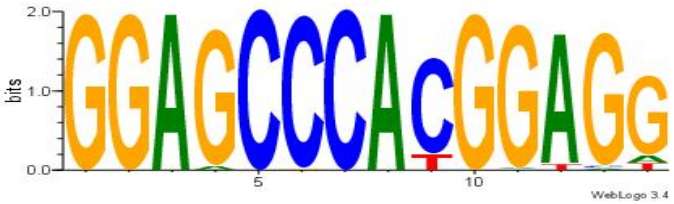

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.103281

Alignment:

```
CTTCGCTGACTCTCTTT
CGCCGCCGCCGC-----
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

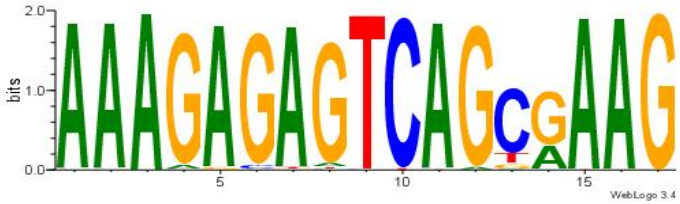

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

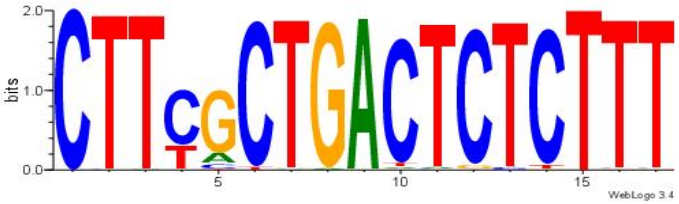

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.103613

Alignment:

```
ATGTGGAGGTGGAAGACAGT
--GCGGCGGCGGCG------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

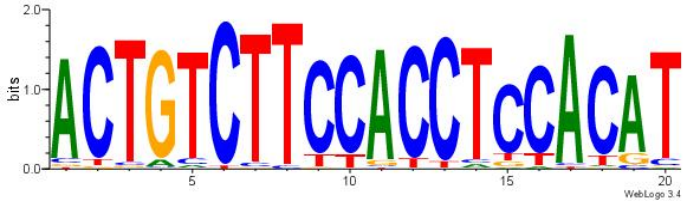

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

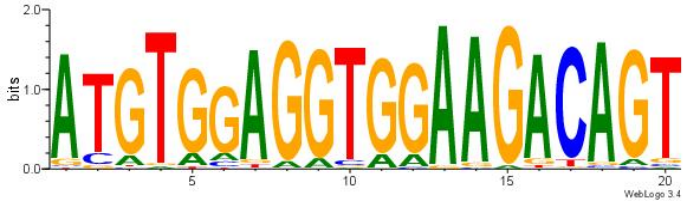

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.104055

Alignment:
CGCCCCGTCTGGGAAGTG
-GCGGCGGCGGCG-----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

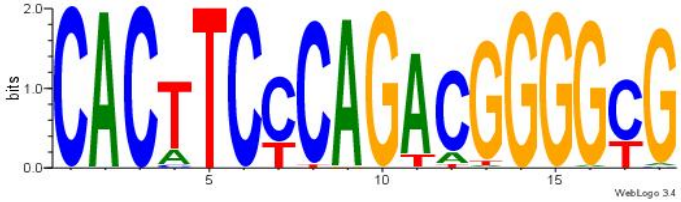

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

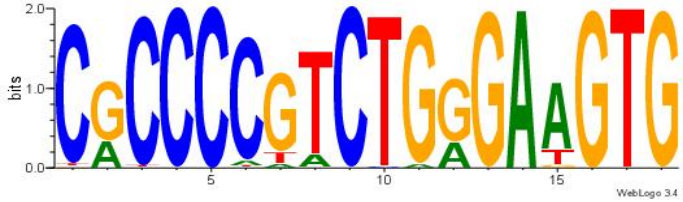

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.104226

Alignment:
GGGTGCAGGMGGGCTGAGT
--GCGGCGGCGGCG-----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

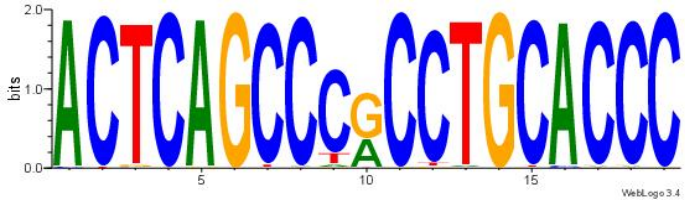

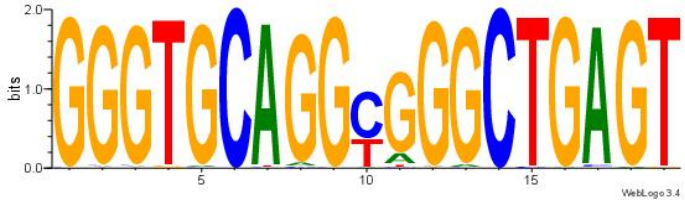

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.104297

Alignment:

```
AGCCCCGGTTCCCGCYCGC
---CGCCGCCGCCGC----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

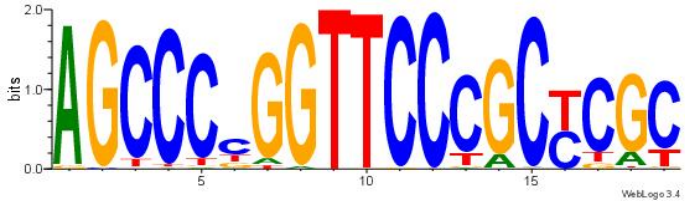

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

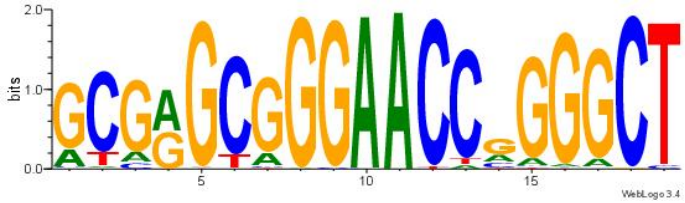

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.10624

Alignment:

```
CCGCGGGGCAGGGCTCG
--GCGGCGGCGGCG---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

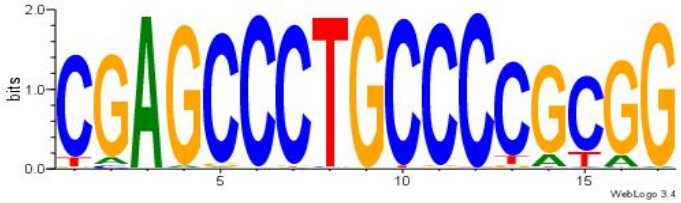

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

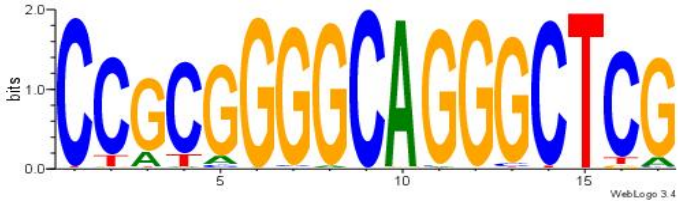

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.10653

Alignment:
MCCYGGCWSMGASGSTCCT
--GCGGCGGCGGCG-----

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

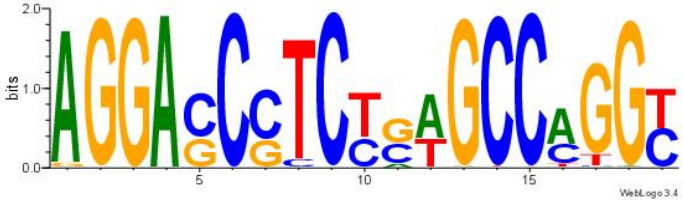

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

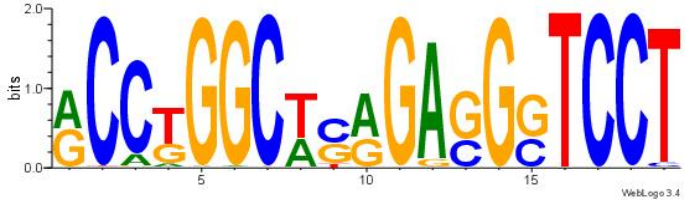

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.107642

Alignment:
GCTCACTGCAASCTC
---CGCCGCCGCCGC

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

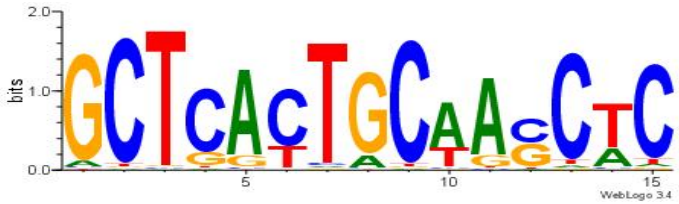

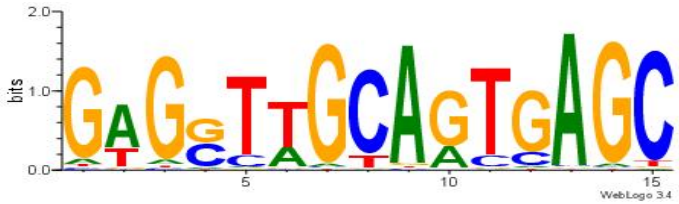

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.108027

Alignment:

```
GCAGAGGCGCTCCT
GCGGCGGCGGCG--
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

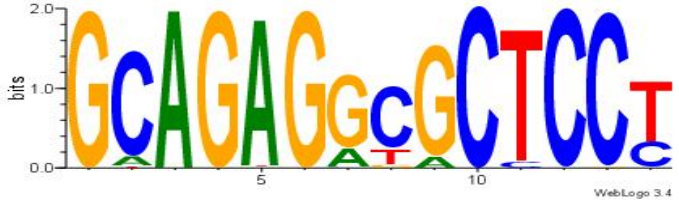

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

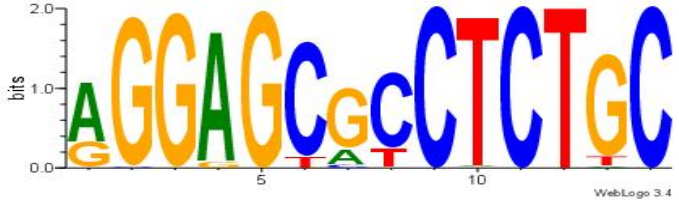

Dataset #:	1
Motif ID:	122

Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.108484

Alignment:

```
CCTTGGCCAGCCCAGAAAG
-CGCCGCCGCCGC------
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

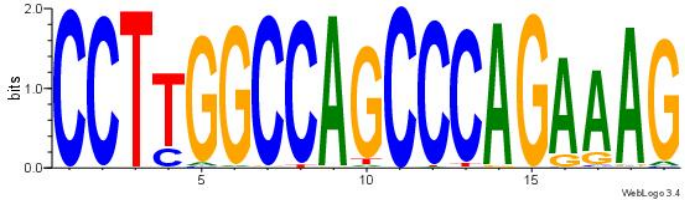

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

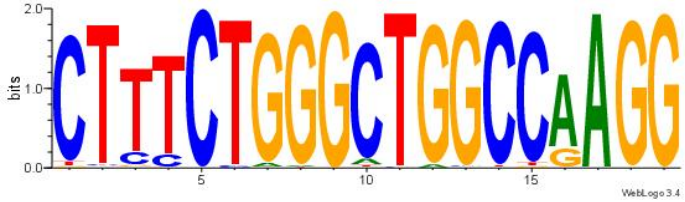

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.109011

Alignment:
AGACAGTGGGYGCAGGHCA
--GCGGCGGCGGCG-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

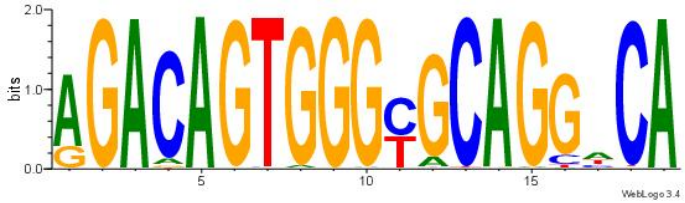

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

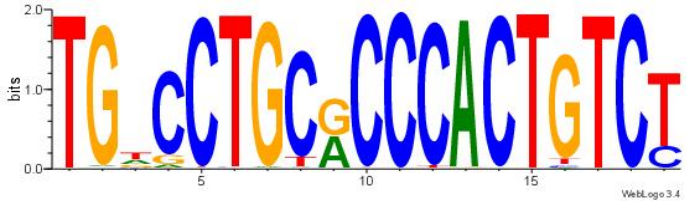

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.109447

Alignment:
GCGCTCKTCGGGGAGGCTCG
------GCGGCGGCGGCG--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

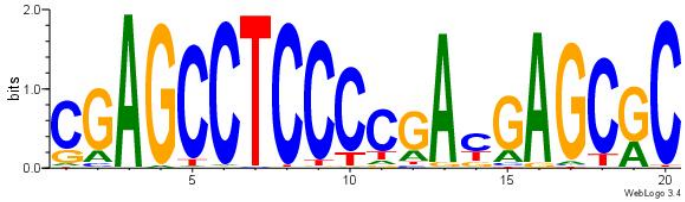

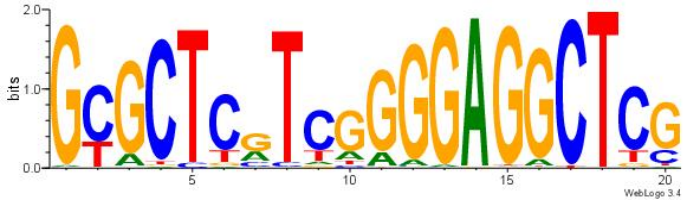

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.109475

Alignment:

```
ACGCCCACGGAGTCTC
----GCGGCGGCGGCG
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

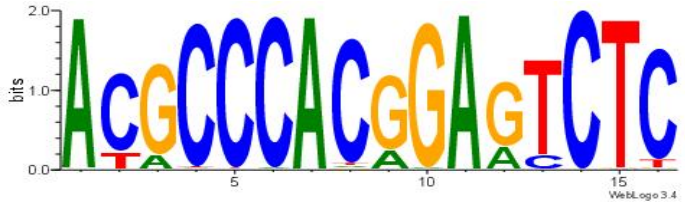

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

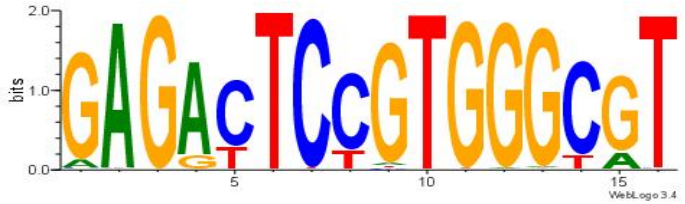

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.109779

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
GCGGCGGCGGCG--------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

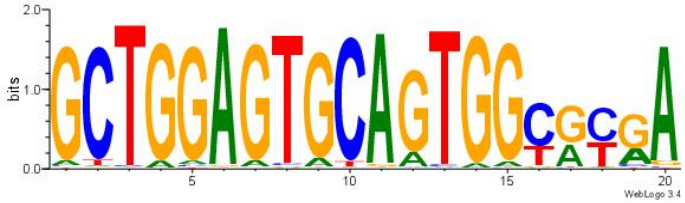

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

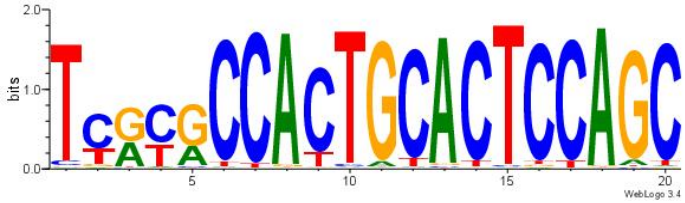

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12

Similarity score: 0.110018

Alignment:
ACCGAGMKMGCAGCTTCGGG
--------CGCCGCCGCCGC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

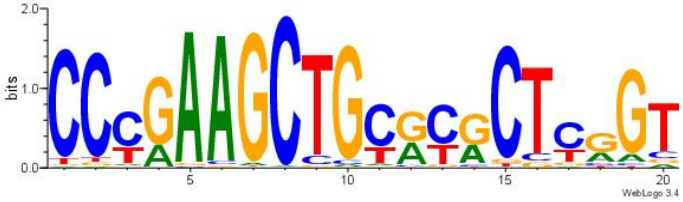

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

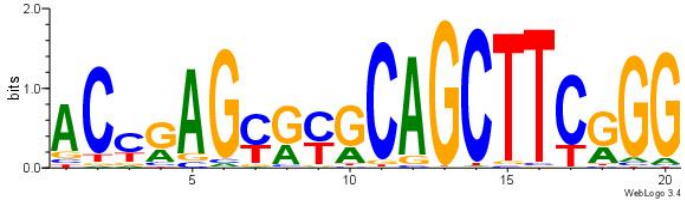

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.110133

Alignment:
GCTGCARTCTCGGCACTTT
--CGCCGCCGCCGC-----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

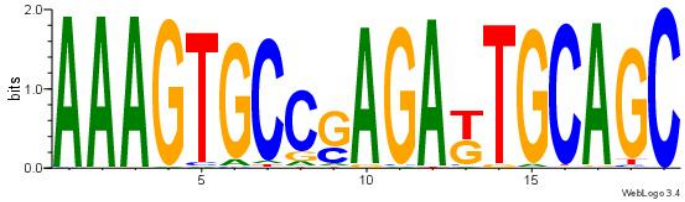

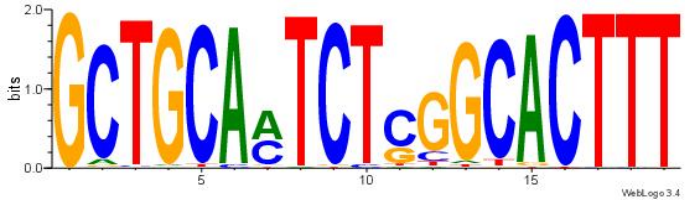

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.110197

Alignment:

```
CCCTCACTGCCCGGGG
----CGCCGCCGCCGC
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

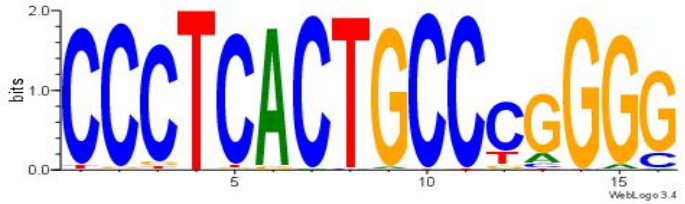

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

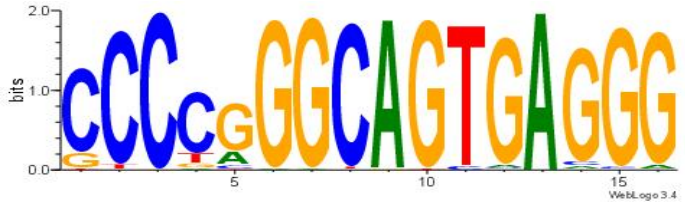

Dataset #: 1 Motif ID: 102 Motif name: Motif 102

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

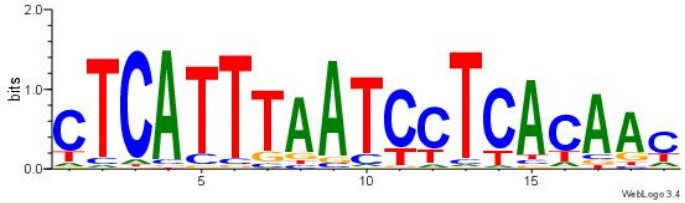

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

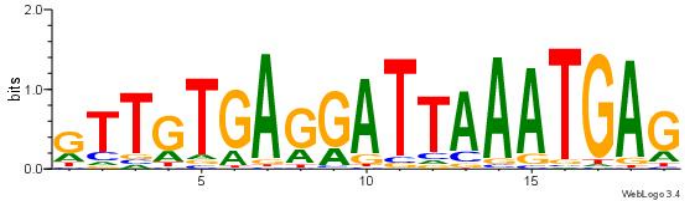

Best Matches for Motif ID 102 (Highest to Lowest)

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0961125

Alignment:

```
CCCATGCAAGTCYRAAATCC
CTCATTTAATCCTCACAAC-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

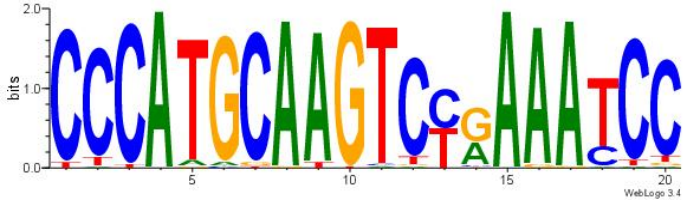

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

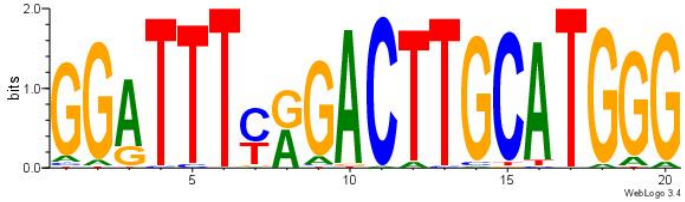

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0968109

Alignment:

```
MTCCTCCAGACCCCAGAATG
CTCATTTAATCCTCACAAC-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

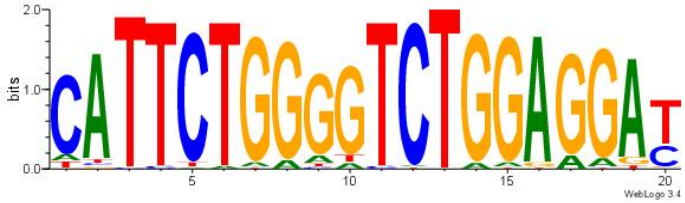

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

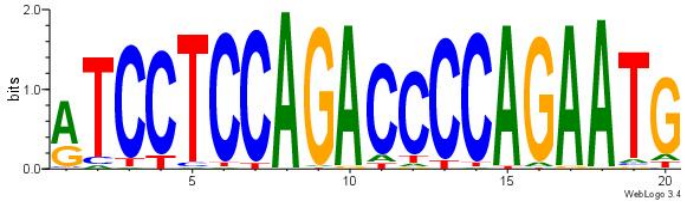

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number:	1
Number of overlap:	19
Similarity score:	0.0987666

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

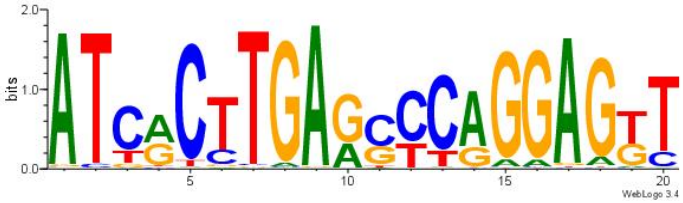

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

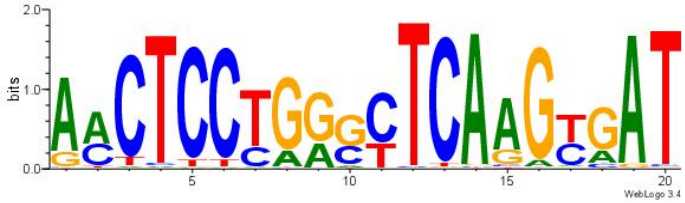

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.101876

Alignment:

```
ATGTGGAGGTGGAAGACAGT
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

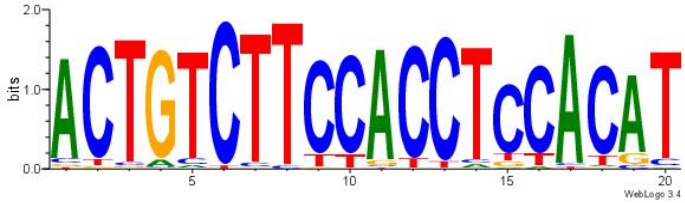

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

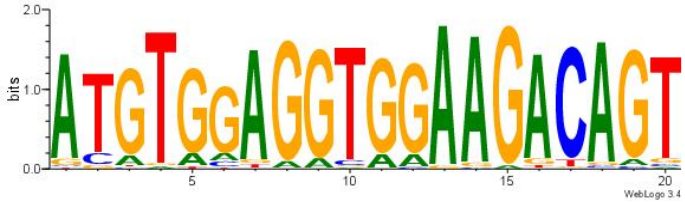

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.101917

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

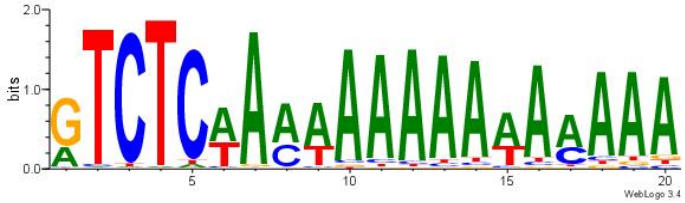

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

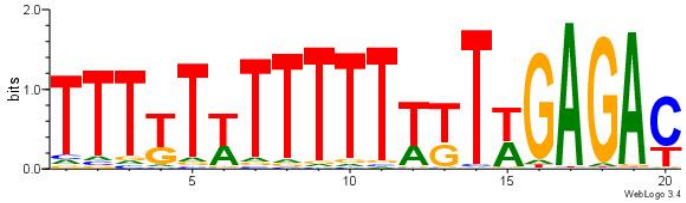

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.103413

Alignment:

```
AAGTTCTKGGKTACATGTGC
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

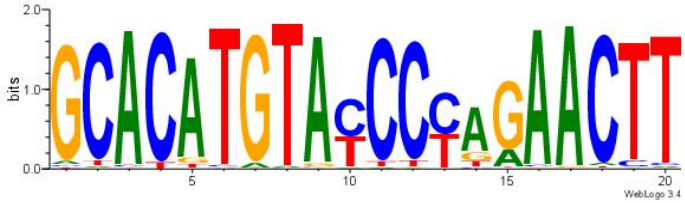

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

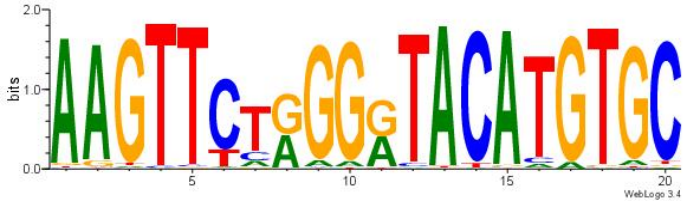

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.103479

Alignment:
CCCMKGGCACCCTCAGTCCT
CTCATTTAATCCTCACAAC-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

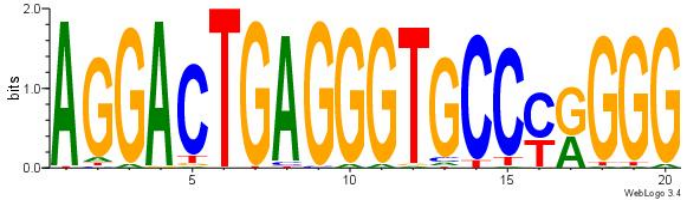

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

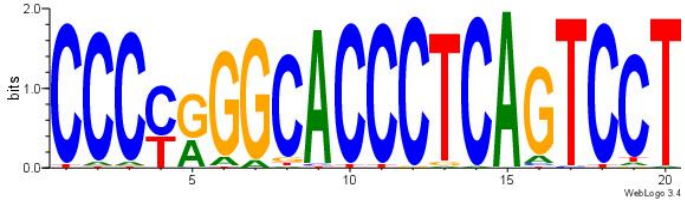

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.103544

Alignment:
HAGTGGKATTGCTGGATCAT
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

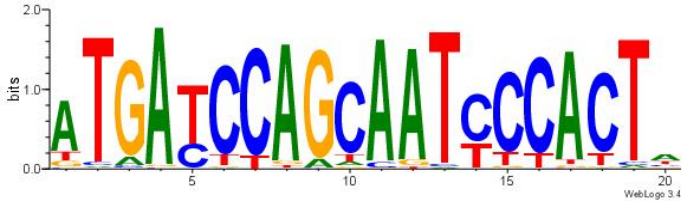

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

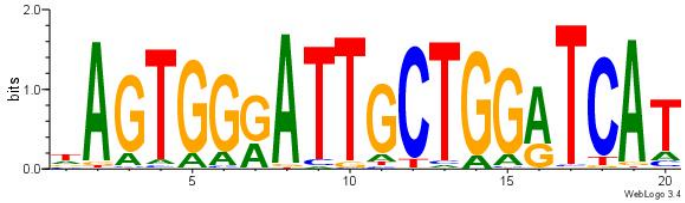

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.105333

Alignment:

```
GCTGTGTGACCTTGGGCAAG
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

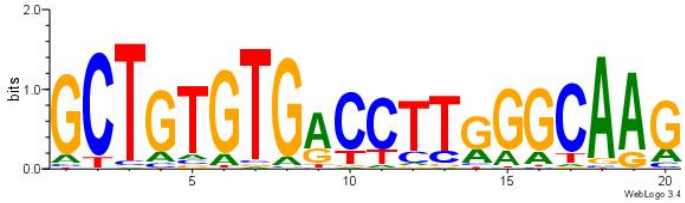

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

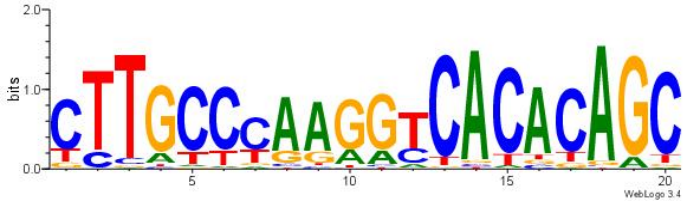

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.105337

Alignment:

```
AGTGAGAACATRYRRTRTTT
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

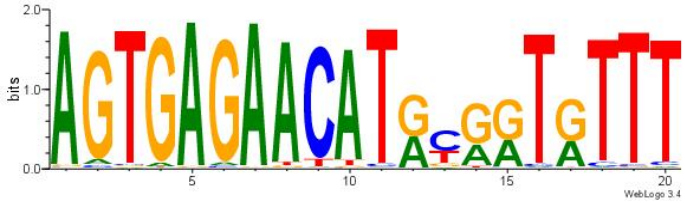

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

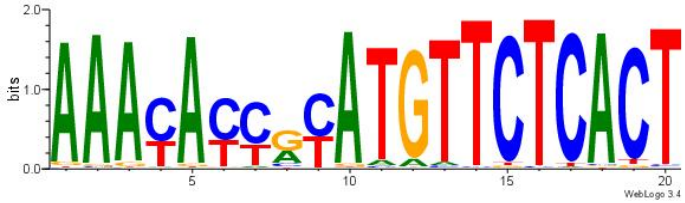

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.106153

Alignment:
TAATTTTATGTGTCAACTTG
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

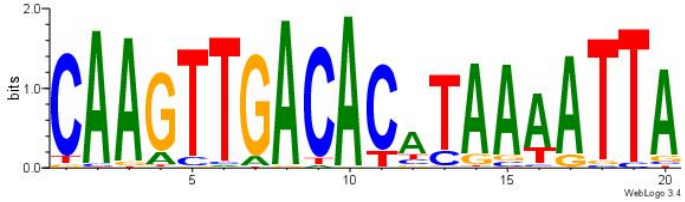

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

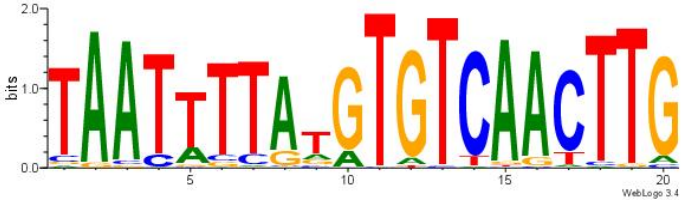

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.106852

Alignment:
GCCKGGMKCMGTGGCTCAKG
GTTGTGAGGATTAAATGAG-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

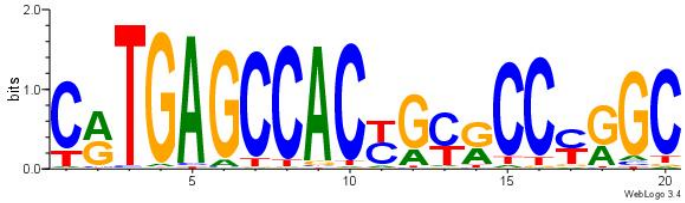

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

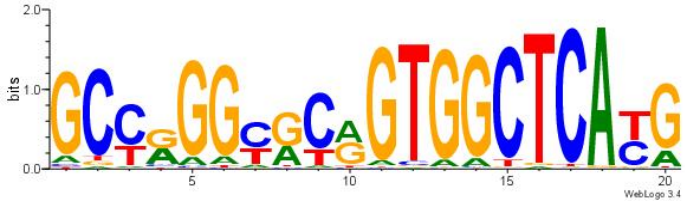

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.109988

Alignment:

```
GACTTCAAGAATGAAGCCG
GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

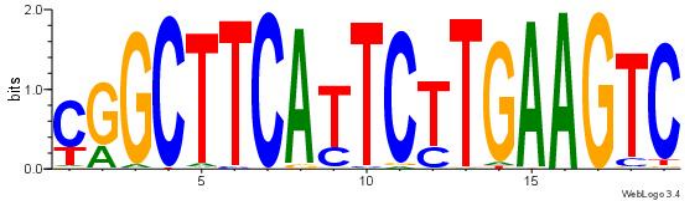

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.110985

Alignment:

```
AAATTAGGCCAATTAATAAC
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

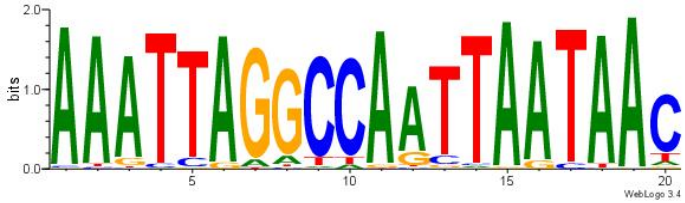

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.111115

Alignment:
VMATTTAKTGAGCACCTACT
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

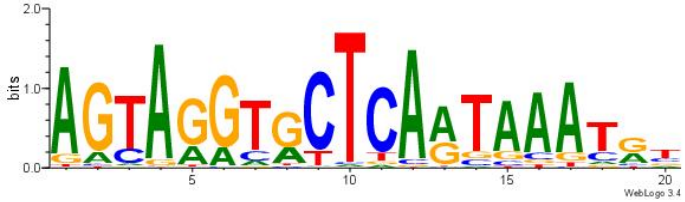

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

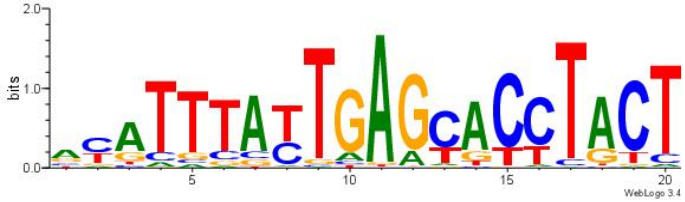

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.112068

Alignment:
AGCTGTGAGAAGAGGGCCAC
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

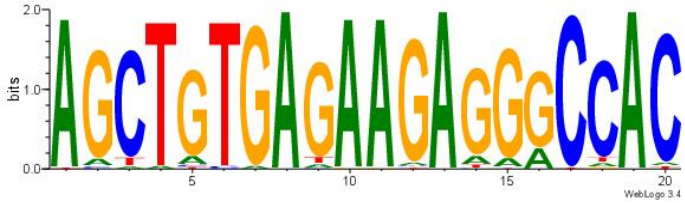

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

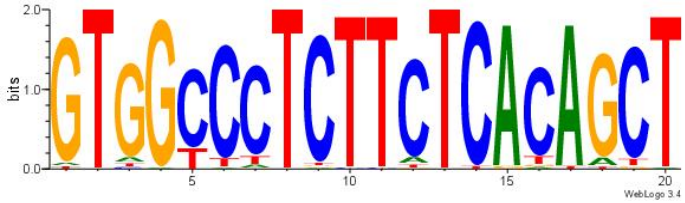

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.11209

Alignment:

```
AATGAKATCATGTCYTTTGC
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

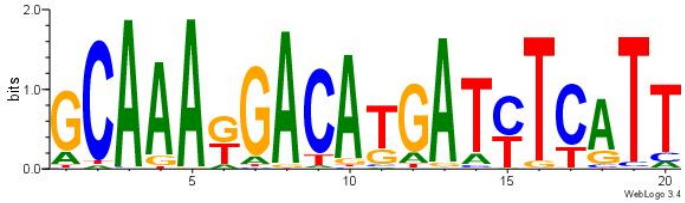

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

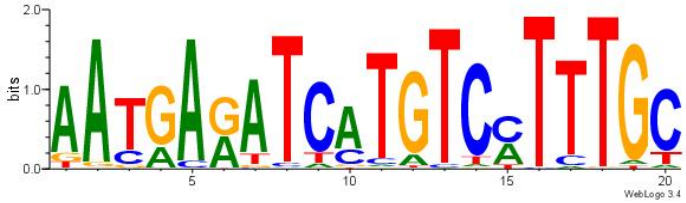

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.112743

Alignment:

```
AAAATGTGGTAYATAYAYAC
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

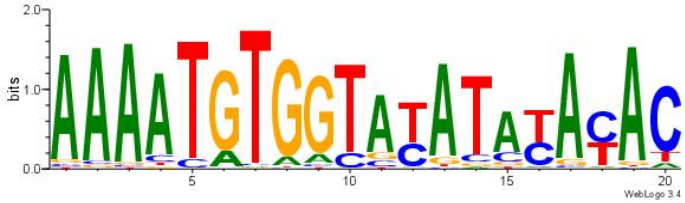

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

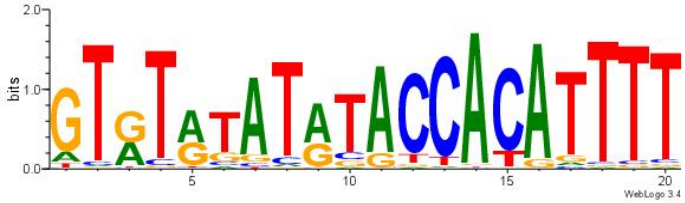

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.11347

Alignment:
ATGGCTGAATAKTATTCCAT
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

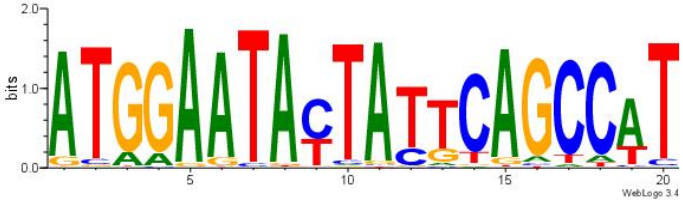

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

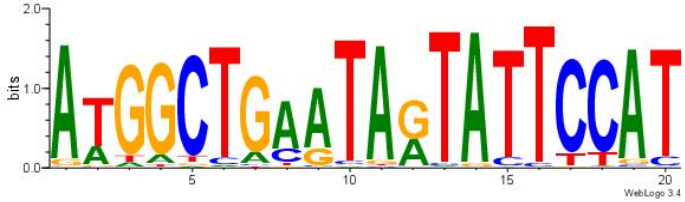

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.114656

Alignment:
TGTGTGTGTGTKTGTGTGT
GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: ACACACAYACACACACACA

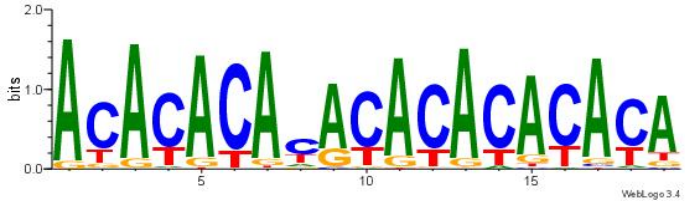

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

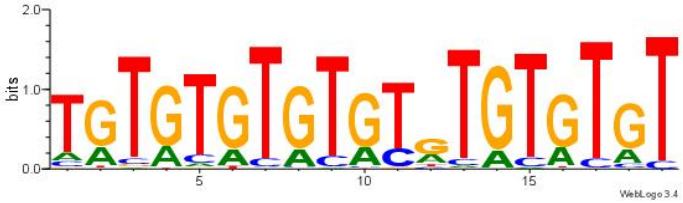

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.115798

Alignment:

```
ATTGGTGTATTTACAATCCC
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

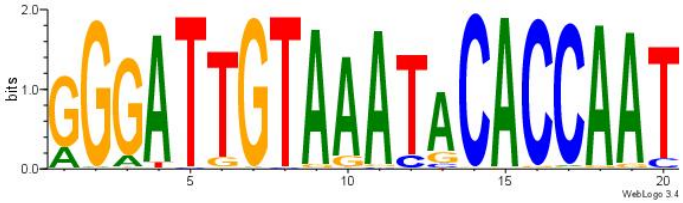

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116267

Alignment:
AACCCTATTGTGAACTGYG
GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

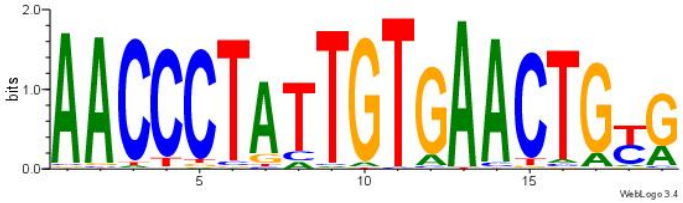

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

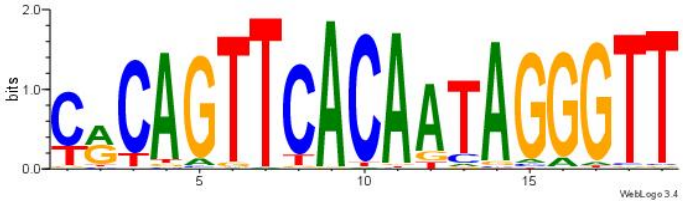

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.11712

Alignment:
GCCGTTTKTTAAGCCCGTY
CTCATTTAATCCTCACAAC

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

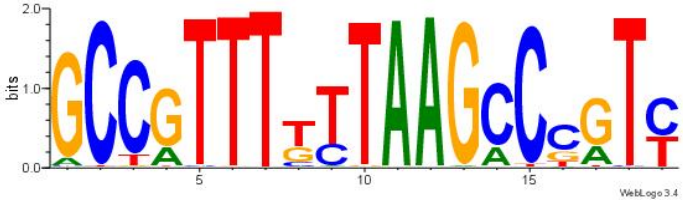

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

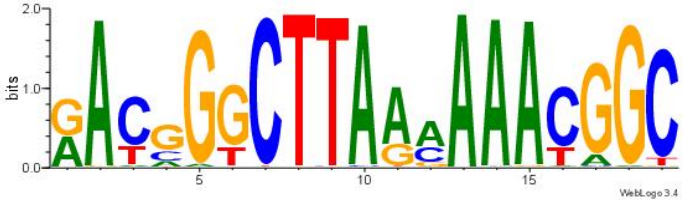

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.1175

Alignment:
GCAGCAMTATTCACAATAG
GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

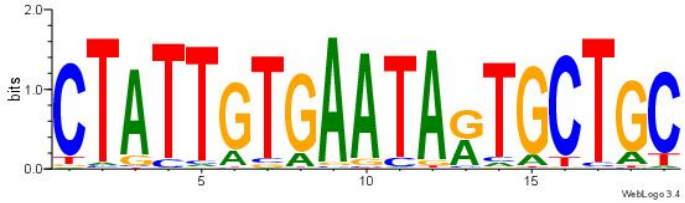

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

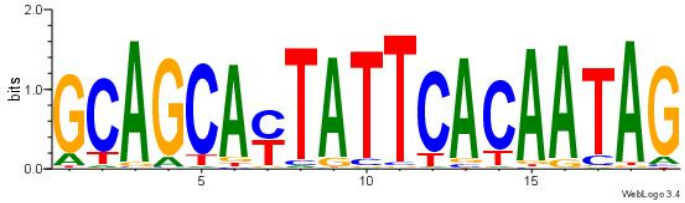

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.117645

Alignment:

```
AGCCYCTGGYAACCAYYAWT
CTCATTTAATCCTCACAAC-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

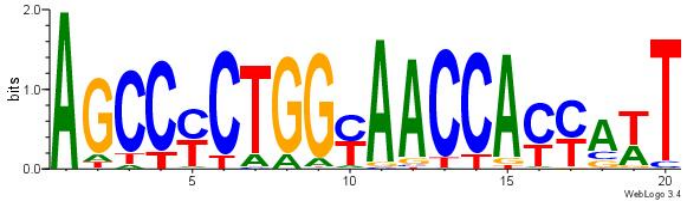

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

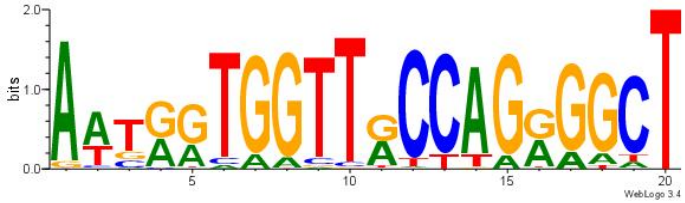

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.1178

Alignment:

```
TAAAAGACTACAWATTGGGT
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

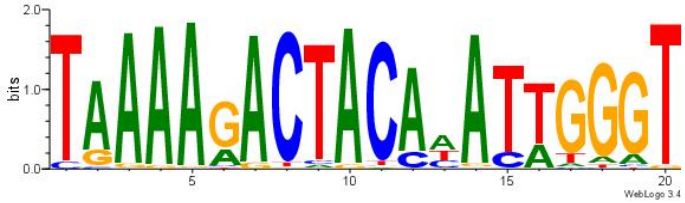

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

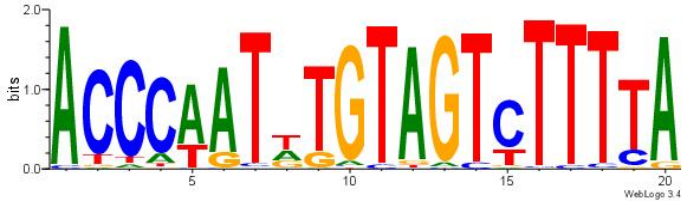

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.118338

Alignment:
TWTACCTATGTAACAAACCT
CTCATTTAATCCTCACAAC-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

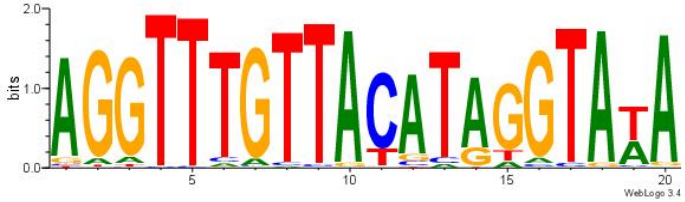

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

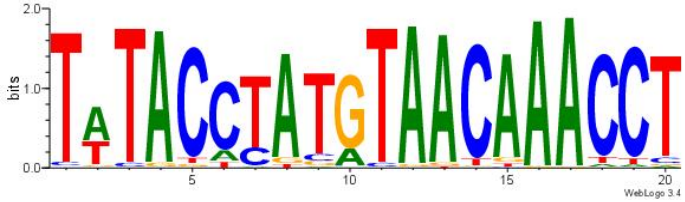

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.118648

Alignment:
GCCTCTCCCTCCACACCTCC
CTCATTTAATCCTCACAAC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

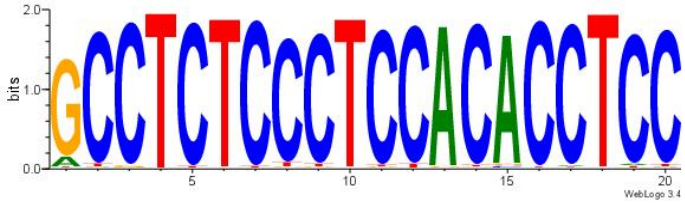

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

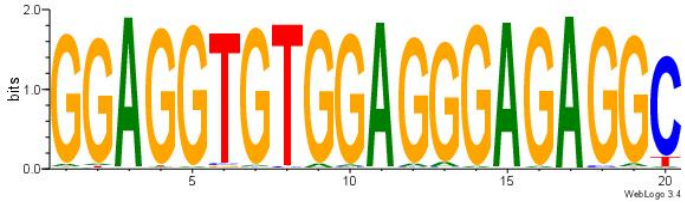

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.118942

Alignment:

```
ATTGATMKCCAGGGTTGATT
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

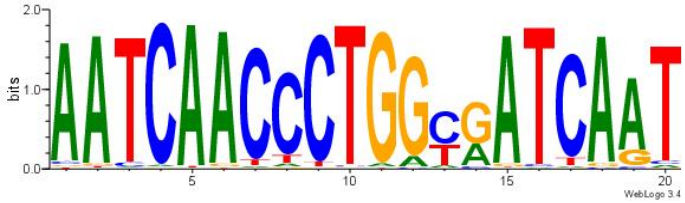

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

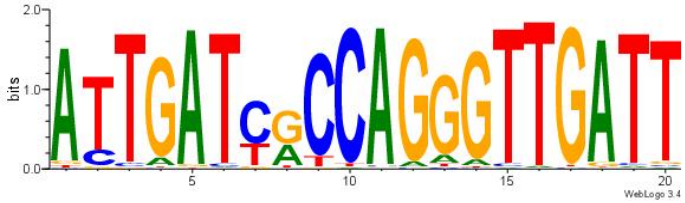

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.11922

Alignment:
GTCCCATCGACCACCCAAG
CTCATTTAATCCTCACAAC

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

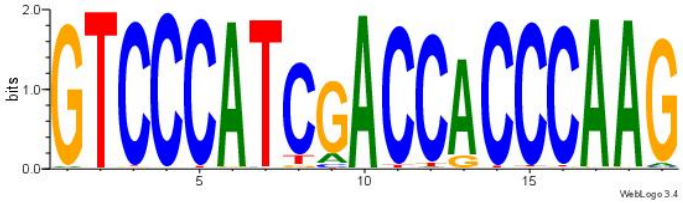

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

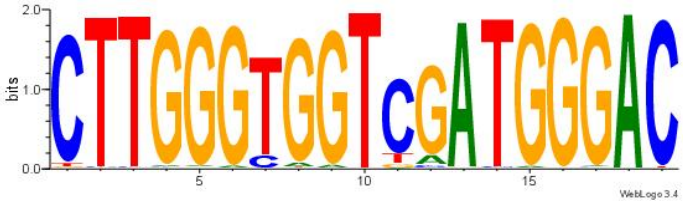

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.120087

Alignment:
GTGCCAGGCACTGTKCTARG
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

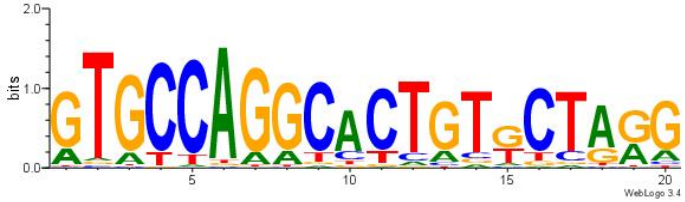

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

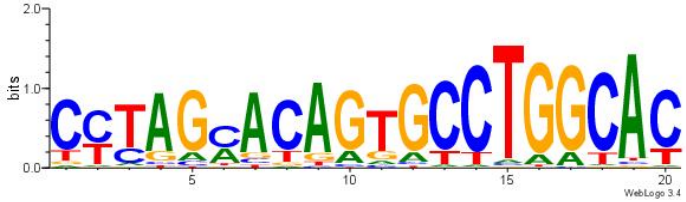

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.120245

Alignment:
TMGGGAGGCTGAGGCAGGAG
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

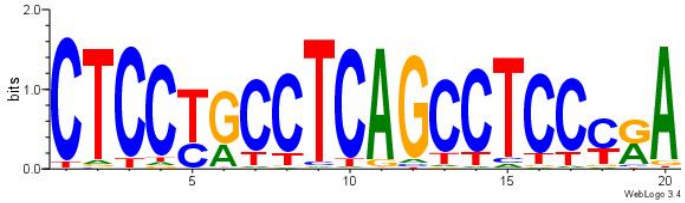

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

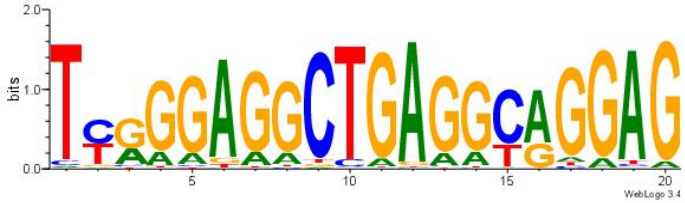

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.120872

Alignment:

```
CTCCAGKTMCATCCATGTTG
CTCATTTAATCCTCACAAC-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

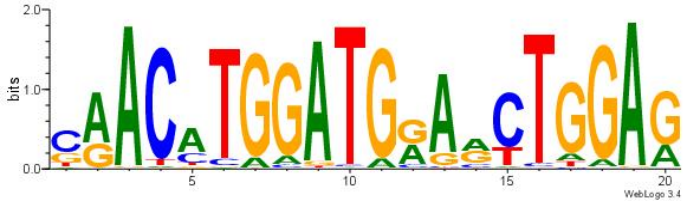

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

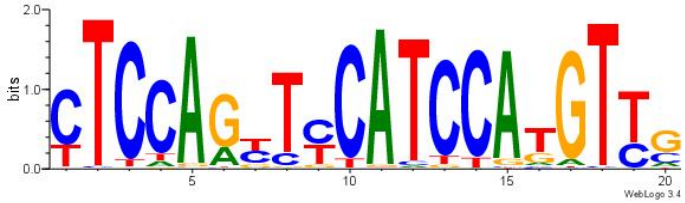

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.120873

Alignment:
TCTCTCTCTCTCTCTCTCTC
CTCATTTAATCCTCACAAC-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

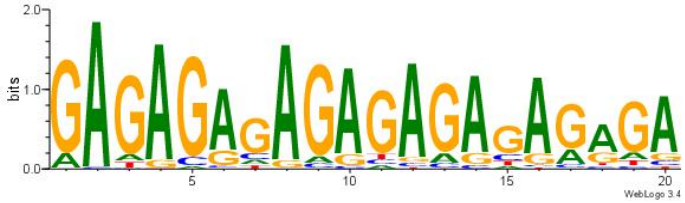

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

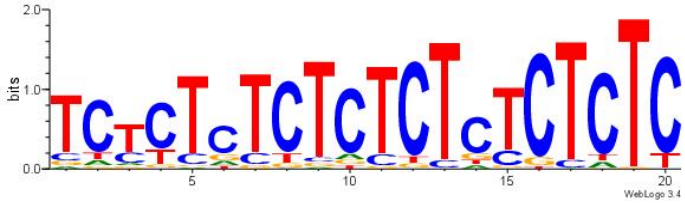

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.121329

Alignment:
ACTTTGGACTGTGGACTTTT
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

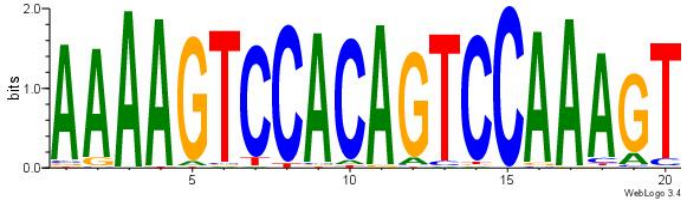

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

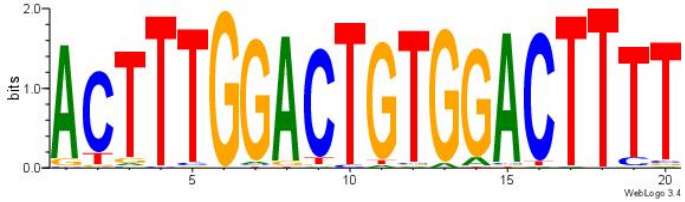

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.121638

Alignment:
ATTAGCYRGGCRTGGTGGC
GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

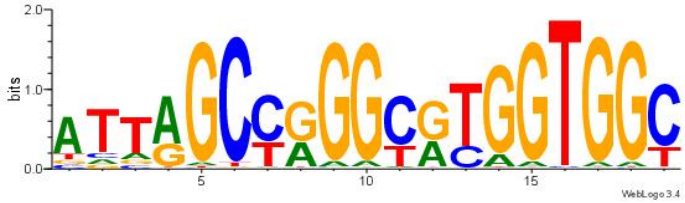

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

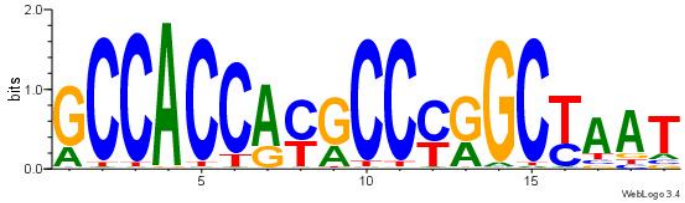

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.121644

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

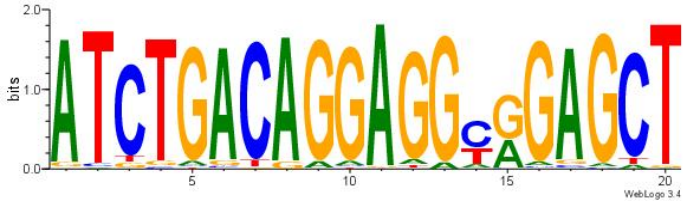

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

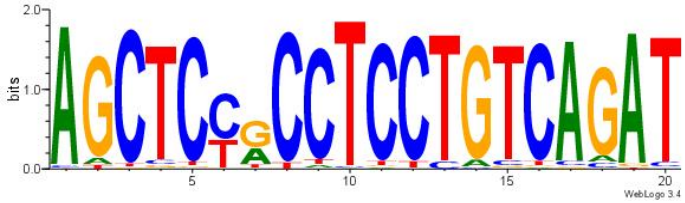

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.122074

Alignment:

```
AGAGCCAAATCATGARTGAA
-GTTGTGAGGATTAAATGAG
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

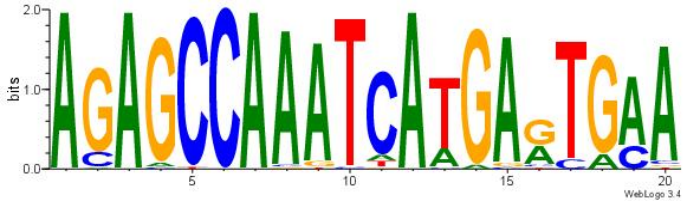

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

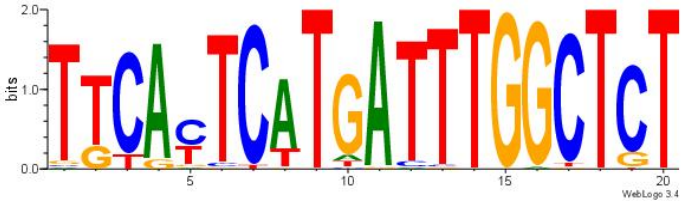

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.122432

Alignment:
GCCAATTTCTCCCATTTGGA
CTCATTTAATCCTCACAAC-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

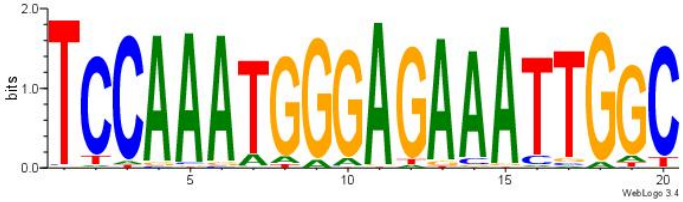

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

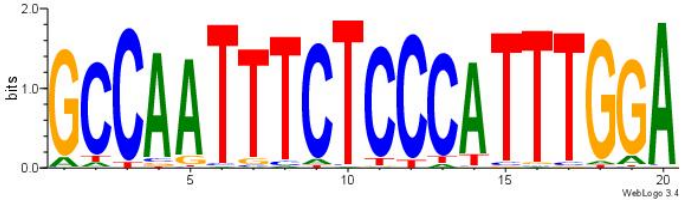

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.123225

Alignment:
TYTGTCMTTTTGTGACTGGC
GTTGTGAGGATTAAATGAG-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

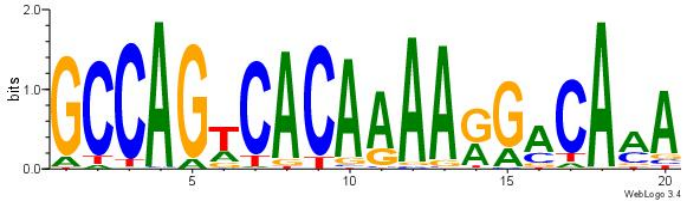

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

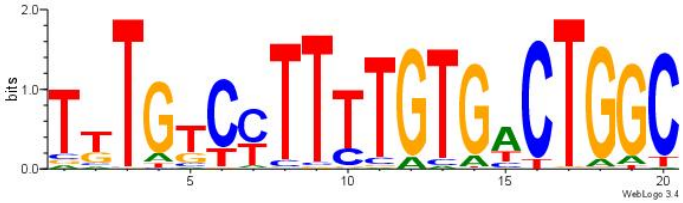

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.123357

Alignment:

```
KKCACCTTGATCTTGGACTT
CTCATTTAATCCTCACAAC-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

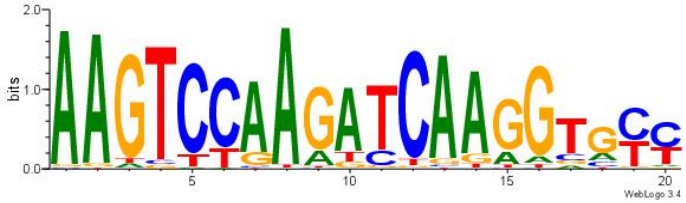

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

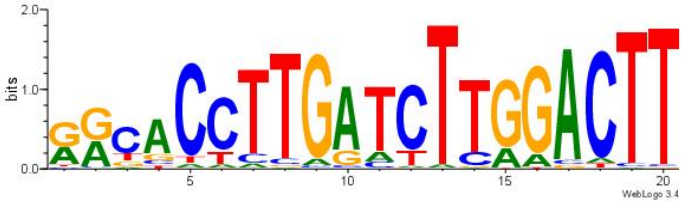

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.123554

Alignment:
GGTGCCCCTCTGGGACRAA
GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

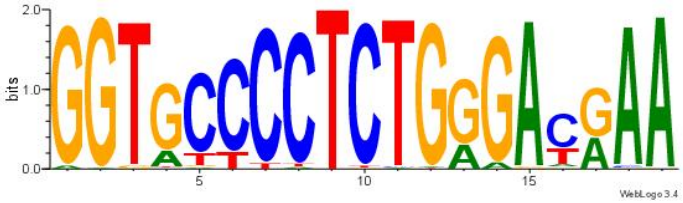

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

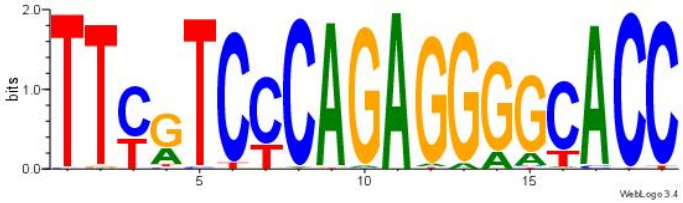

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.123917

Alignment:
AGGCCCCAGTGTSTGTTGTT
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

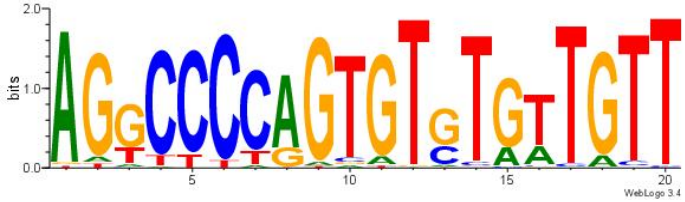

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

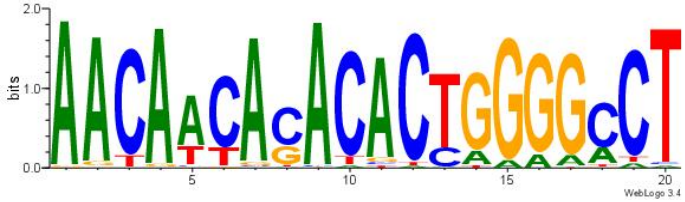

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.12413

Alignment:
CACCAGGAGATTATATCCCR
-GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

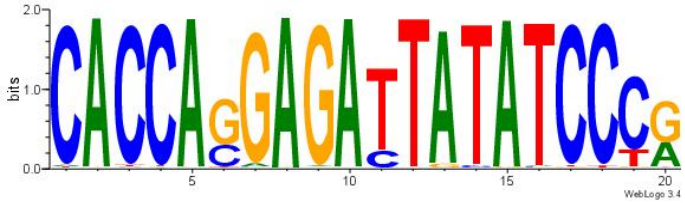

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

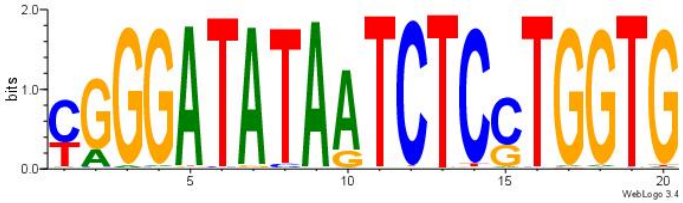

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.126001

Alignment:

GAAAAGCGCAGTATTMGGG

GTTGTGAGGATTAAATGAG

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

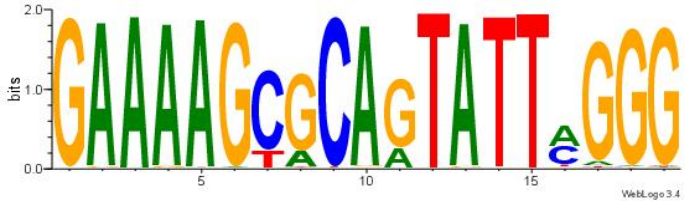

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

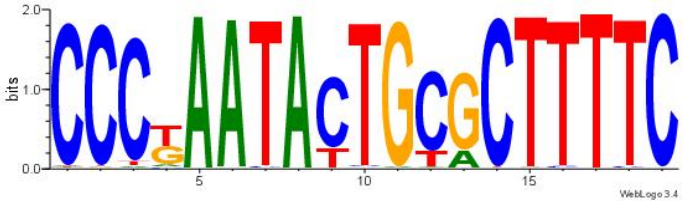

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.126039

Alignment:

```
GACAGGAGATTAACACTGAG
CTCATTTAATCCTCACAAC-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

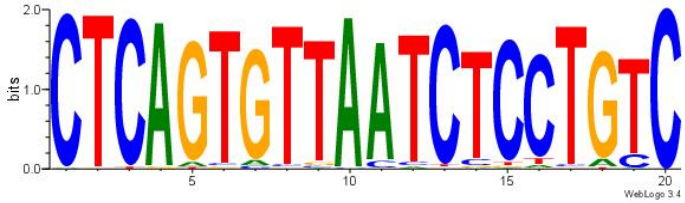

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

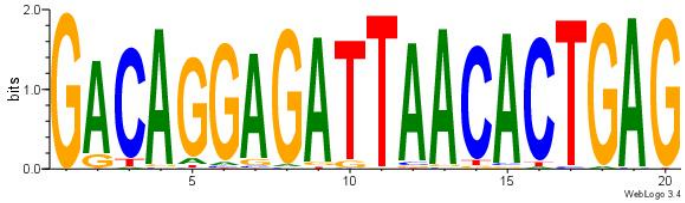

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.129063

Alignment:
CCCAAATCTCATSTTGAAT
CTCATTTAATCCTCACAAC

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

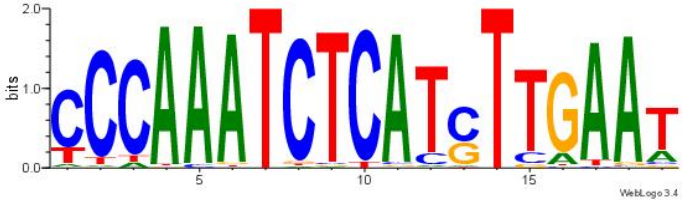

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

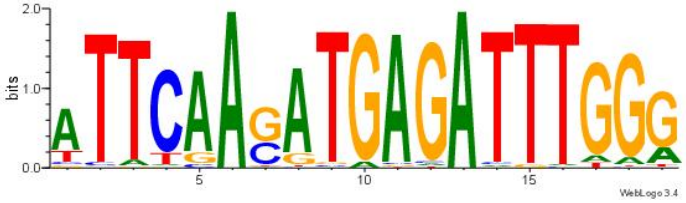

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.129332

Alignment:
AGCTCCCAGCGTGAGCGACG
GTTGTGAGGATTAAATGAG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

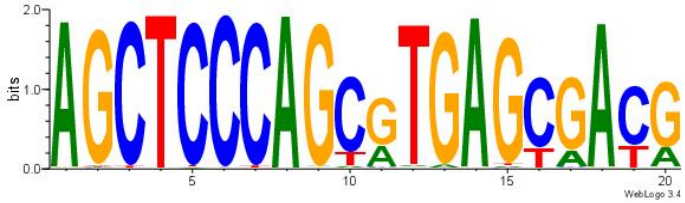

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

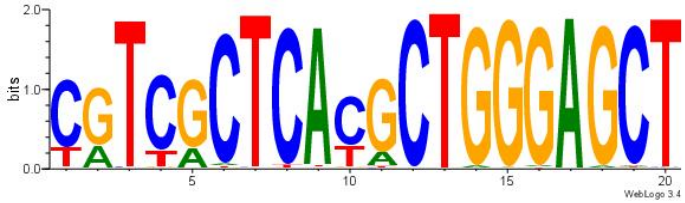

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129518

Alignment:

```
CAGGTGGTKTTTGGTTACAT
GTTGTGAGGATTAAATGAG-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

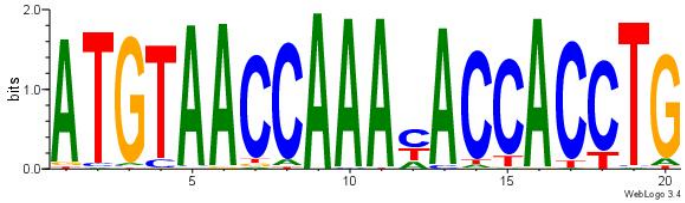

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

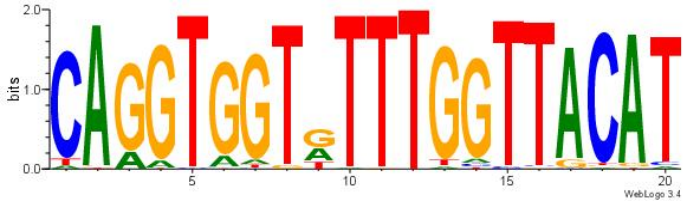

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.129529

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-CTCATTTAATCCTCACAAC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

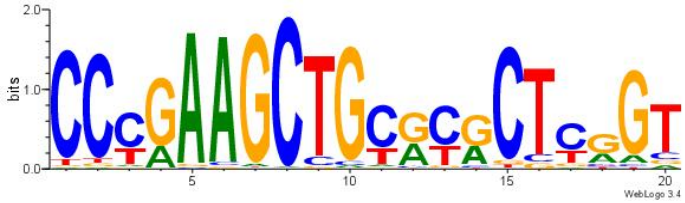

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

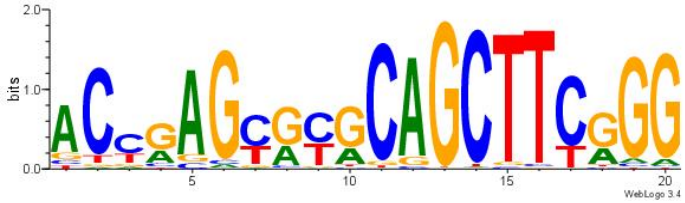

Dataset #: 1 Motif ID: 103 Motif name: Motif 103

Original motif Consensus sequence: AAGTGAAATAA

Reverse complement motif Consensus sequence: TTATTTCACTT

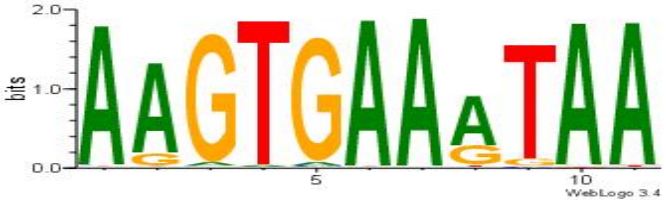

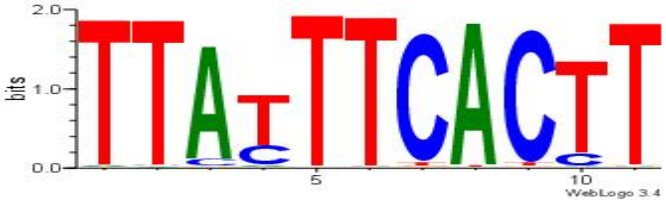

Best Matches for Motif ID 103 (Highest to Lowest)

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0659798

Alignment:

```
CKAGTCAAAGAAA
-AAGTGAAATAA-
```

Original motif Consensus sequence: CKAGTCAAAGAAA

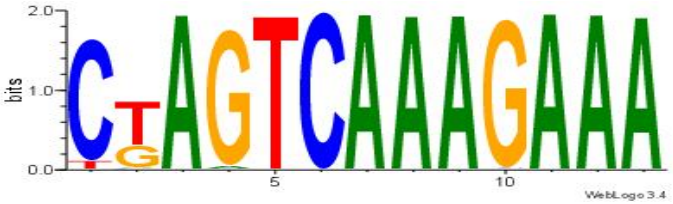

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

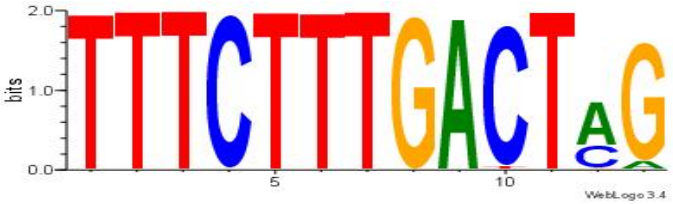

Dataset #: 1

Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.068219

Alignment:

```
AAATGGAATCAT
AAGTGAAATAA-
```

Original motif Consensus sequence: AAATGGAATCAT

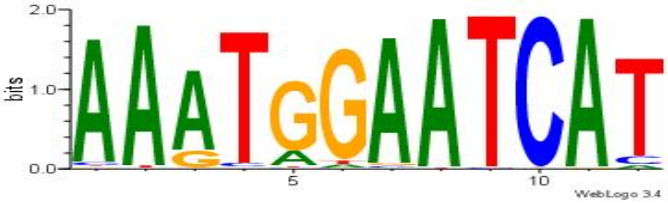

Reverse complement motif Consensus sequence: ATGATTCCATTT

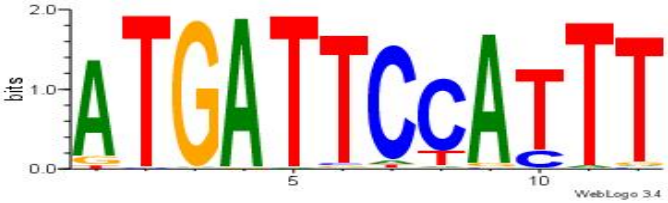

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.069022

Alignment:
GGTTCATCTCACTAGGGAGT
------TTATTTCACTT---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

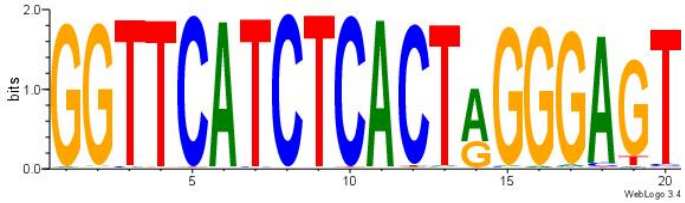

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

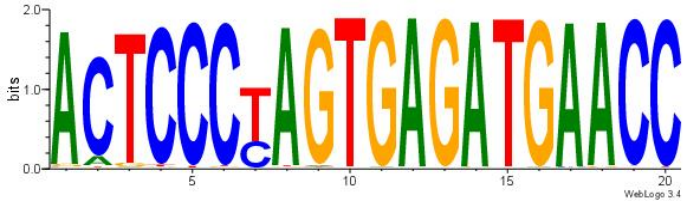

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0694615

Alignment:
AAGAGGTTTAATTGRCTCA
-------TTATTTCACTT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

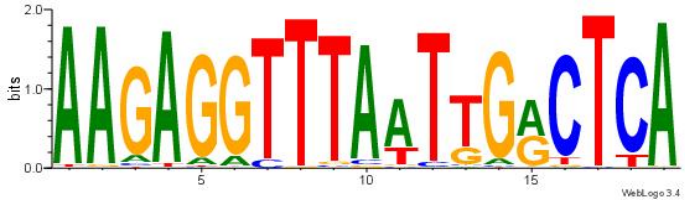

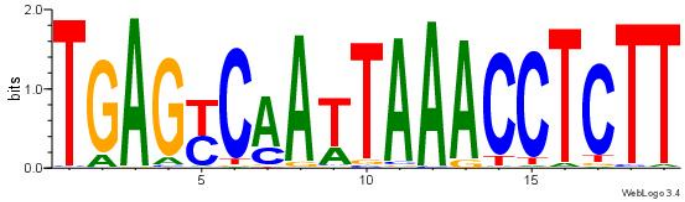

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0711874

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-------TTATTTCACTT--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

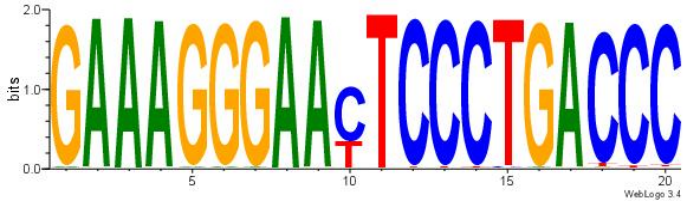

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

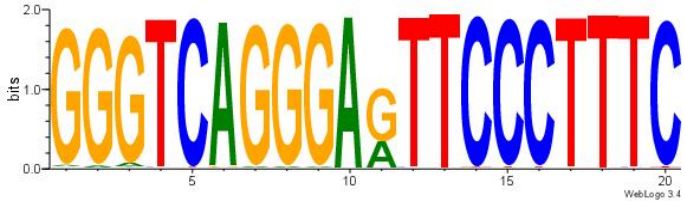

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0727074

Alignment:

```
GAAAAGCGCAGTATTMGGG
---AAGTGAAATAA-----
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

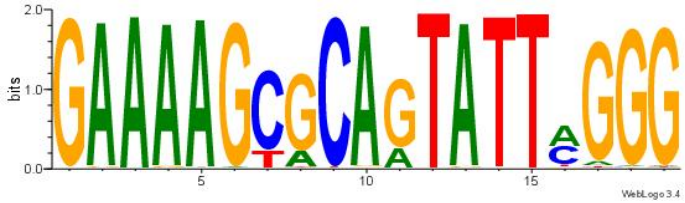

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

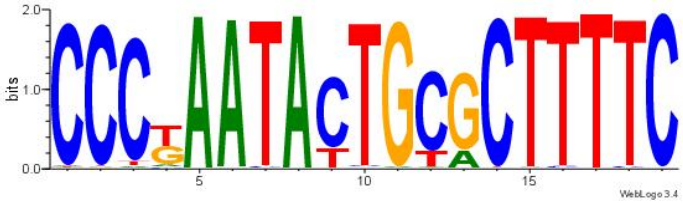

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.0767626

Alignment:
AAATTAGGCCAATTAATAAC
---TTATTTCACTT------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

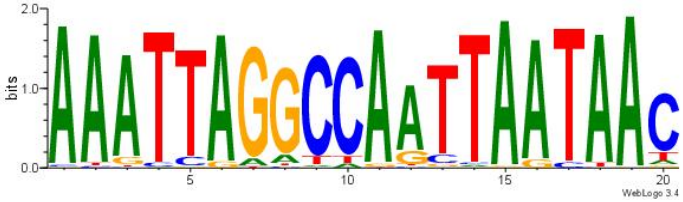

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0798412

Alignment:
GCAAAKGACATGATYTCATT
--AAGTGAAATAA-------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

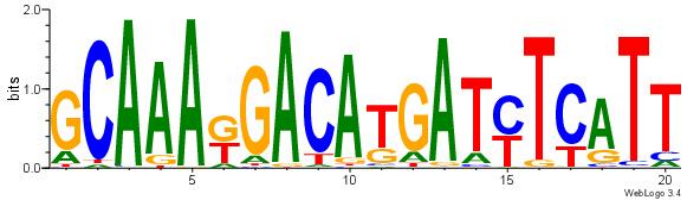

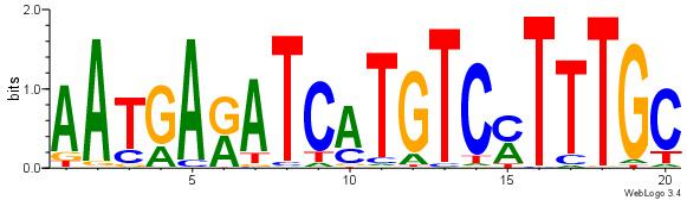

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0809175

Alignment:

```
AAGGAAAAGAAA
AAGTGAAATAA-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

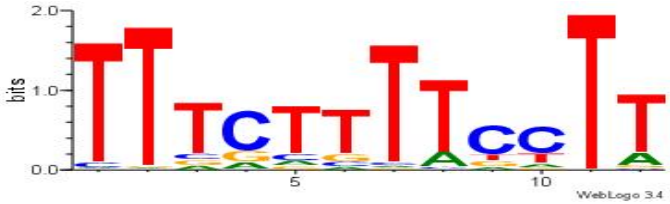

Dataset #:	1
Motif ID:	327

Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0818832

Alignment:

```
GAAATTGACTTCCTCCT
TTATTTCACTT------
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

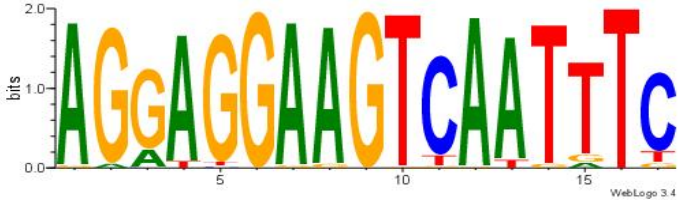

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

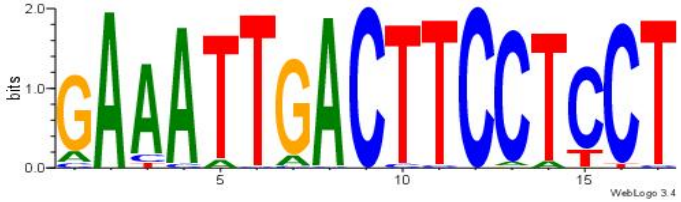

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0824615

Alignment:
AAAYAAAAAAA
AAGTGAAATAA

Original motif Consensus sequence: AAAYAAAAAAA

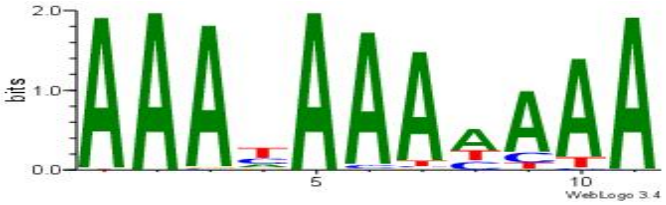

Reverse complement motif Consensus sequence: TTTTTTTMTTT

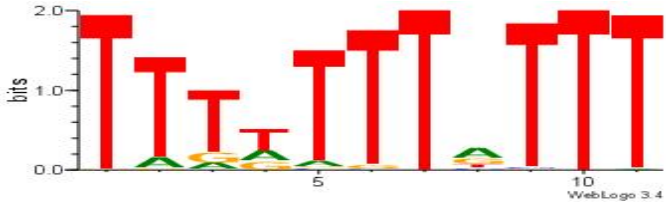

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0827634

Alignment:
AGGTATTTCTCCCACC
--TTATTTCACTT---

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

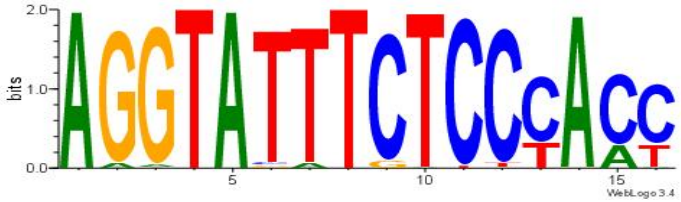

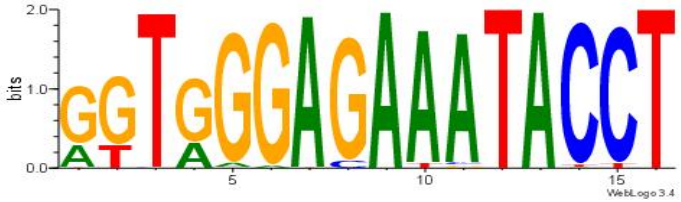

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0829493

Alignment:
KCCGGGCCTTAGCTGCCTTC
--------TTATTTCACTT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

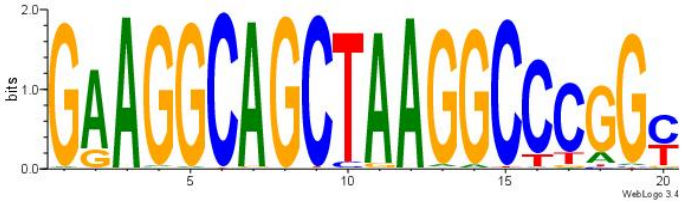

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

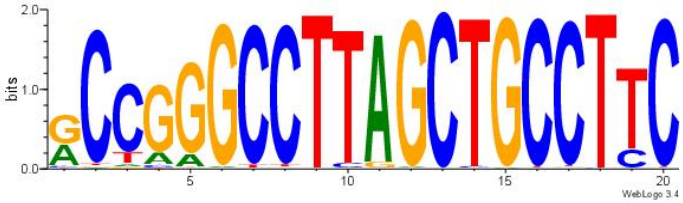

Dataset #: 1

Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0857036

Alignment:

```
TGATGGGTGCACCAAA
----AAGTGAAATAA-
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

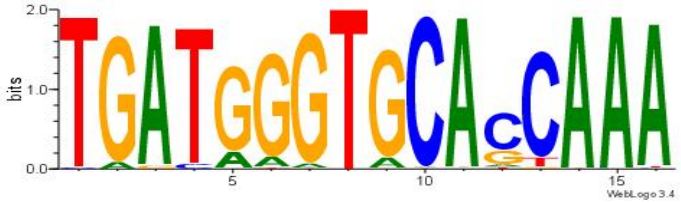

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

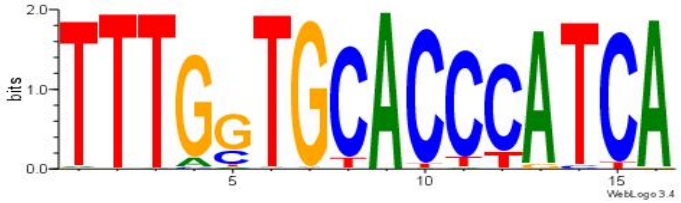

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.0859053

Alignment:
AAGACCTTCCAGTGGGACAA
---------AAGTGAAATAA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

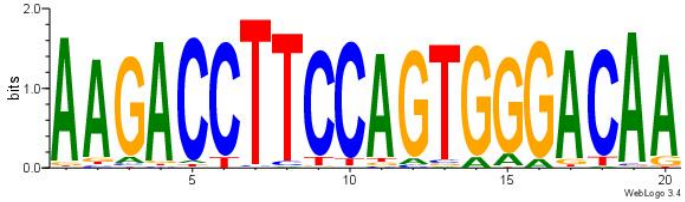

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

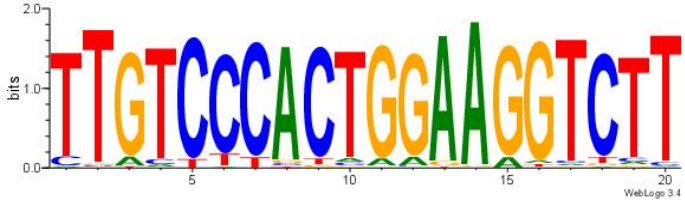

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0869096

Alignment:
GGATCCACTGGGTGAAGCCA
---------AAGTGAAATAA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

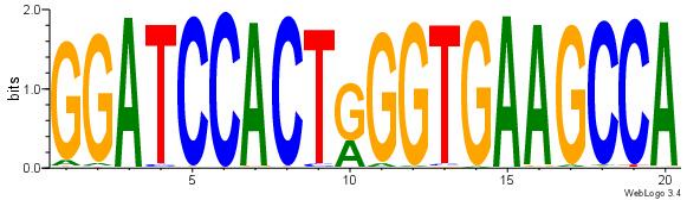

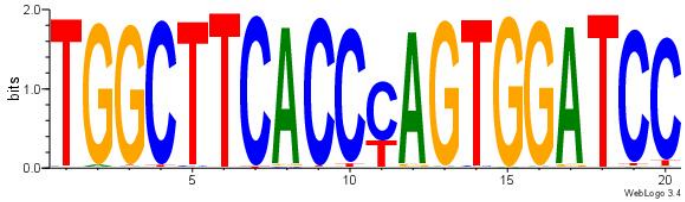

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0875576

Alignment:

```
TAATTTTATGTGTCAACTTG
TTATTTCACTT---------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

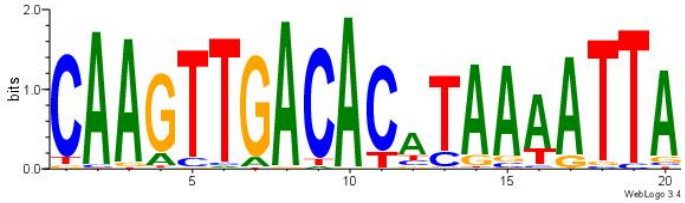

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

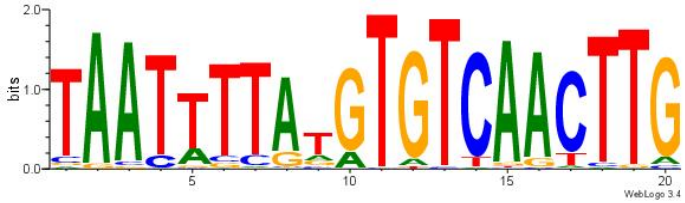

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0881727

Alignment:

```
AGAGCCAAATCATGARTGAA
-AAGTGAAATAA--------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

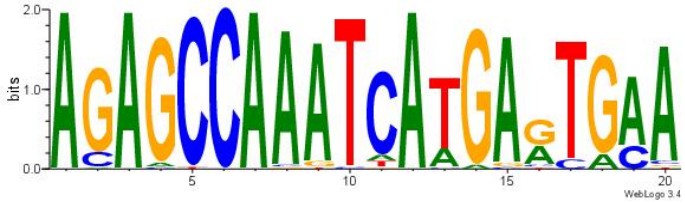

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

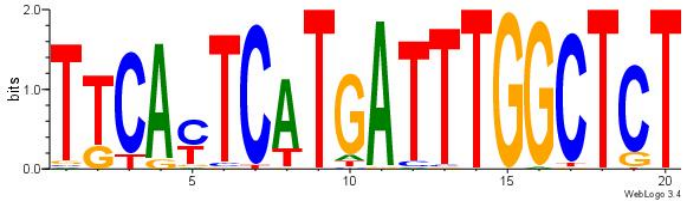

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0884521

Alignment:
ATGTGGAGGTGGAAGACAGT
------AAGTGAAATAA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

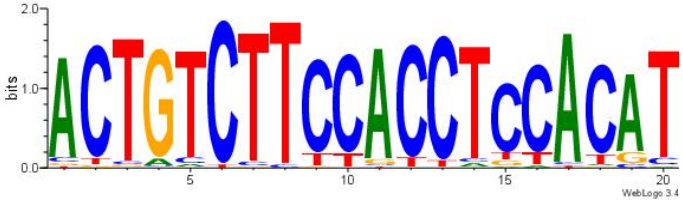

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

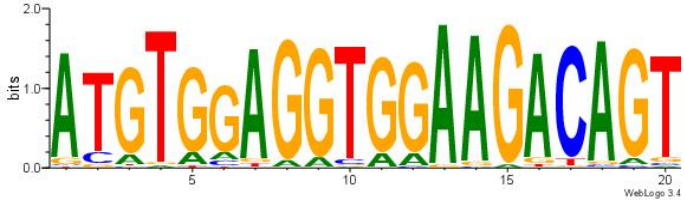

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0888452

Alignment:
KKCACCTTGATCTTGGACTT
---------TTATTTCACTT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

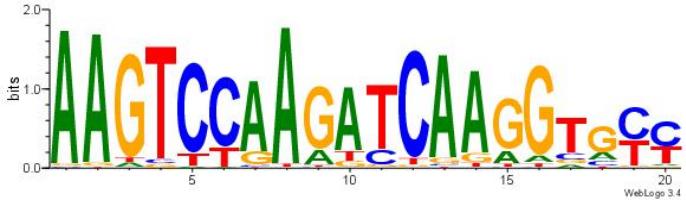

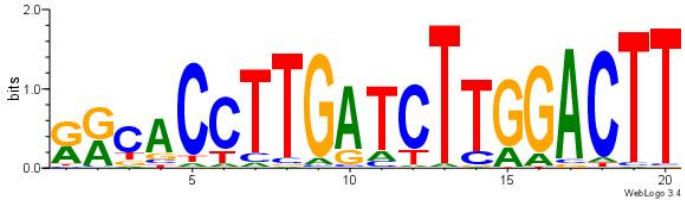

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.088996

Alignment:

```
CTTCGCTGACTCTCTTT
-TTATTTCACTT-----
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

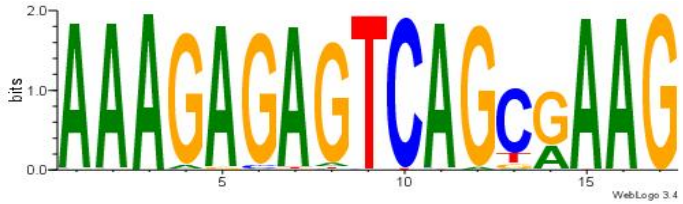

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

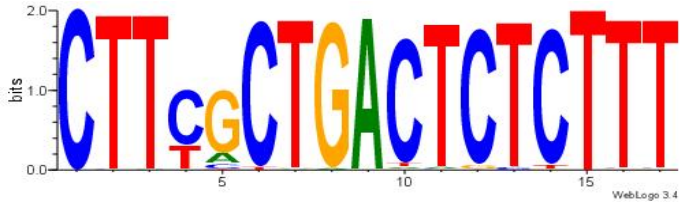

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0891067

Alignment:

```
TCCAAATGGGAGAAATTGGC
---AAGTGAAATAA------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

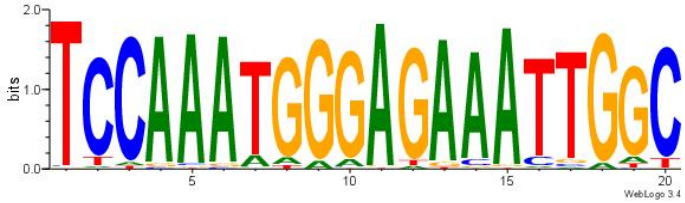

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

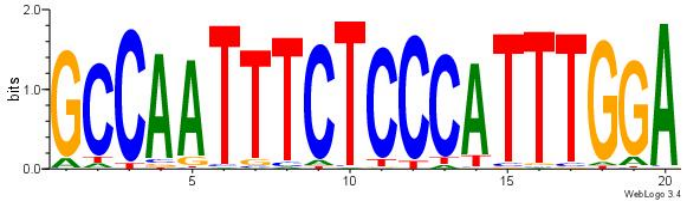

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0895208

Alignment:
CATTTCCAWCTGAGGTAC
-------AAGTGAAATAA

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

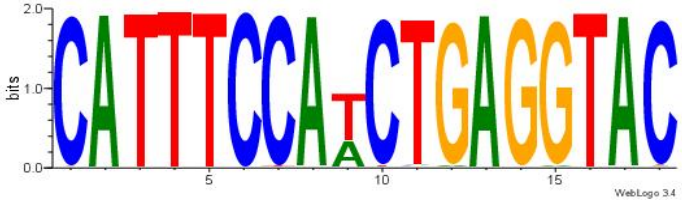

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

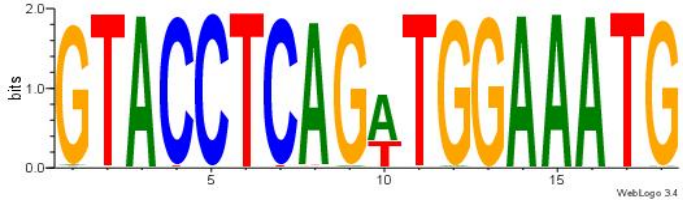

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0900947

Alignment:
AATTAAAAGACACAGACTG
AAGTGAAATAA--------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

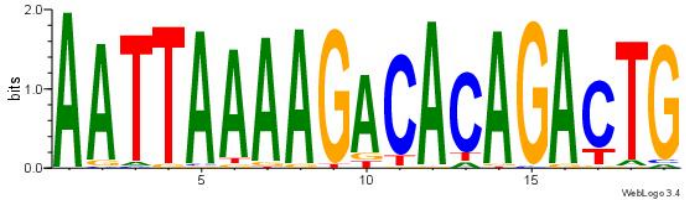

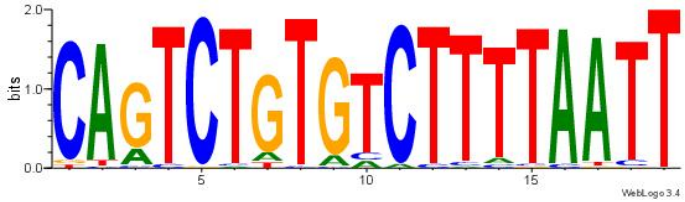

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0901822

Alignment:

```
TTTTATAGGATTTGGG
--TTATTTCACTT---
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

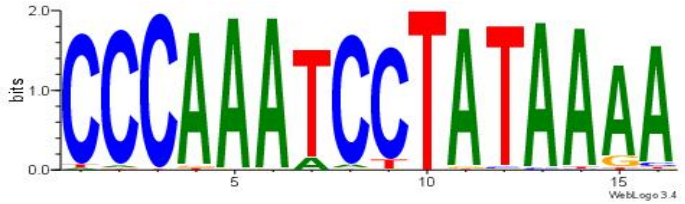

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

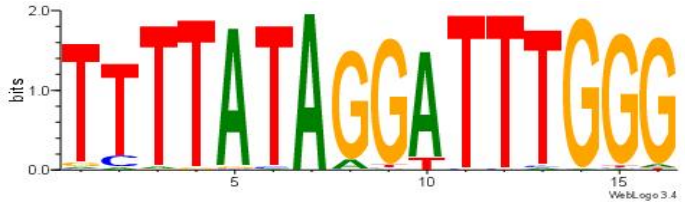

Dataset #: 1

Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0904248

Alignment:

```
GCAGTGAGCYRAGA
-AAGTGAAATAA--
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

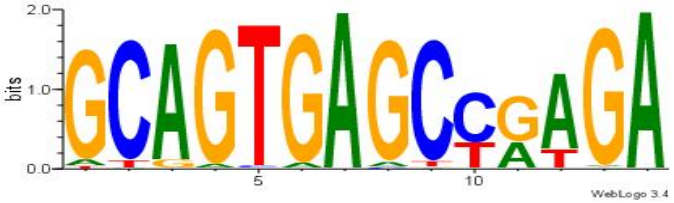

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

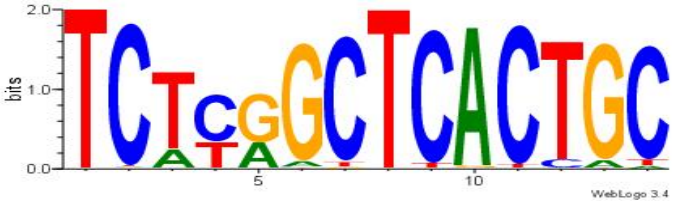

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0915342

Alignment:
GGGAGGGATATATTAGC
--AAGTGAAATAA----

Original motif Consensus sequence: GGGAGGGATATATTAGC

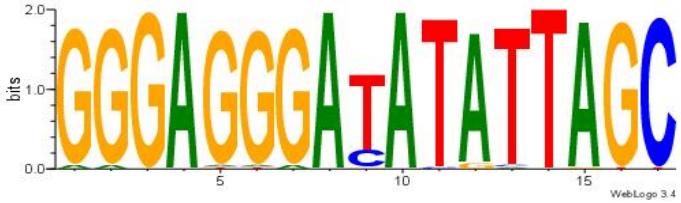

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

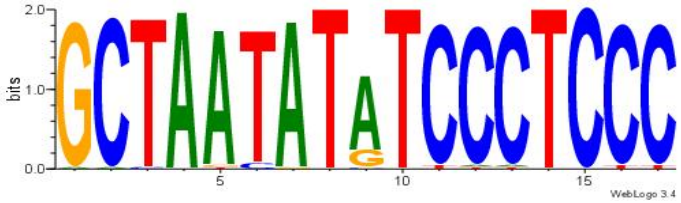

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0917758

Alignment:
AGGCTGTTTTACAGTTAAC
-----TTATTTCACTT---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

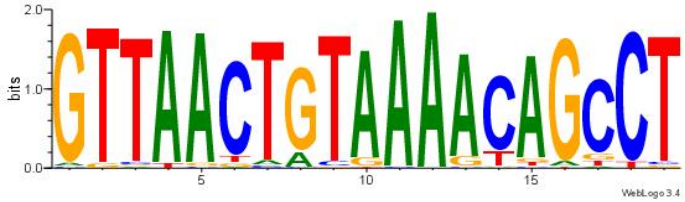

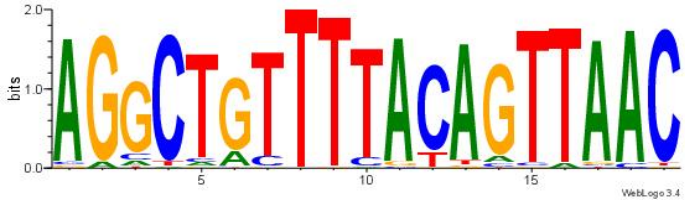

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0920229

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
----TTATTTCACTT-----
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

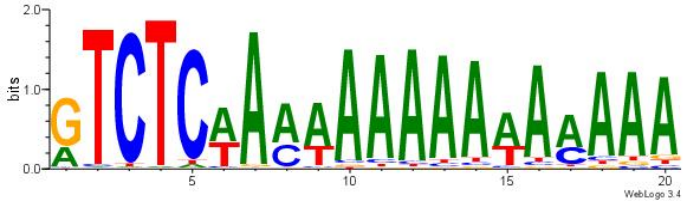

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

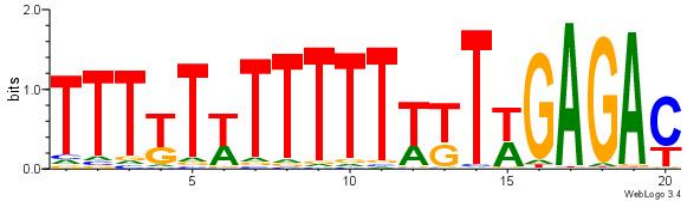

Dataset #:	1

Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.09361

Alignment:

```
CTGGTCAAGGAAA
-AAGTGAAATAA-
```

Original motif Consensus sequence: CTGGTCAAGGAAA

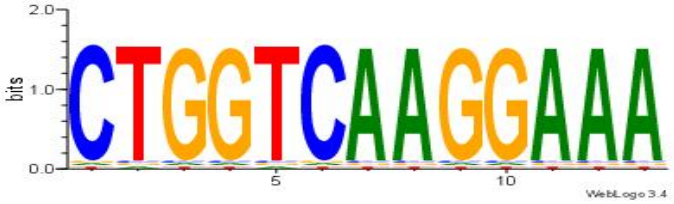

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

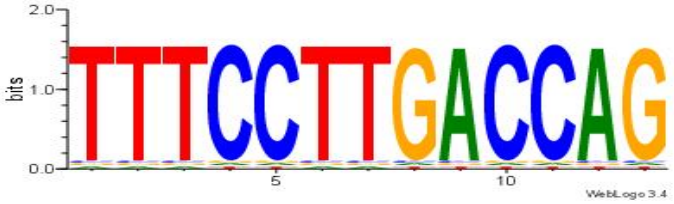

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.094285

Alignment:
GACATGGAGTCAAAGG
-AAGTGAAATAA----

Original motif Consensus sequence: GACATGGAGTCAAAGG

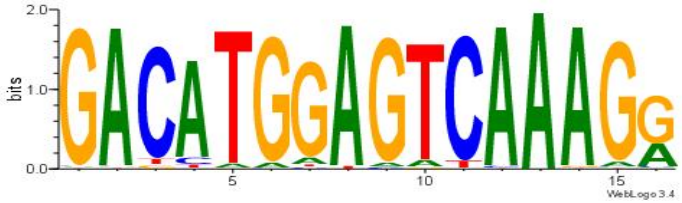

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

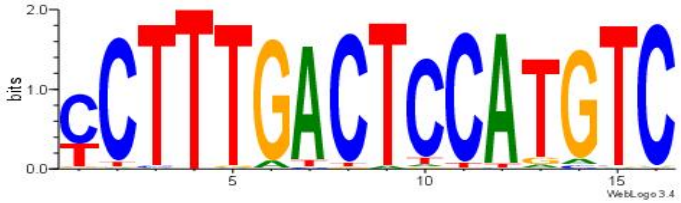

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0944648

Alignment:
CMCAGTTCACAATAGGGTT
-TTATTTCACTT-------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

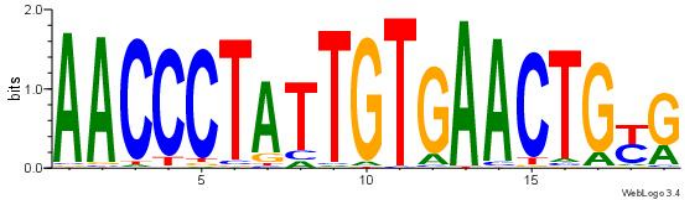

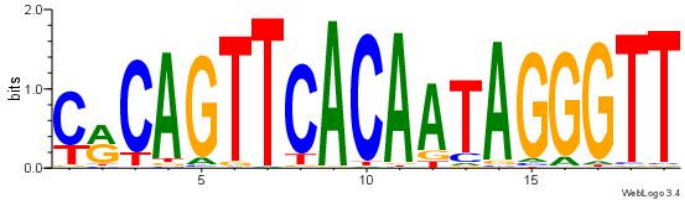

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0947973

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-------TTATTTCACTT--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

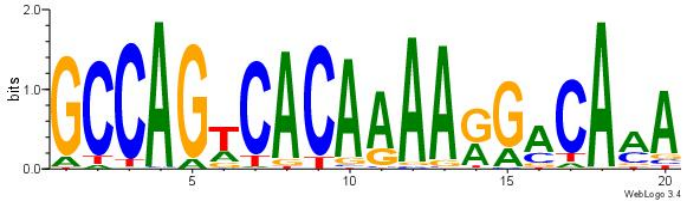

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

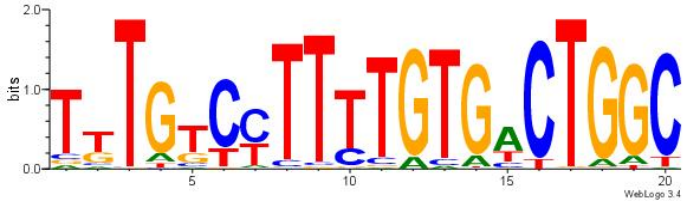

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0954797

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
----AAGTGAAATAA-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

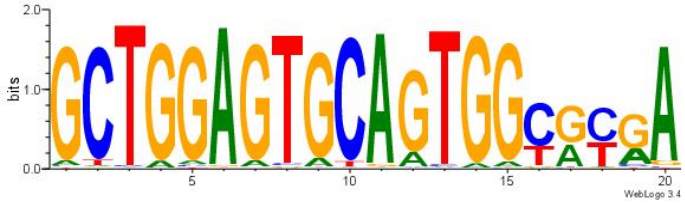

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

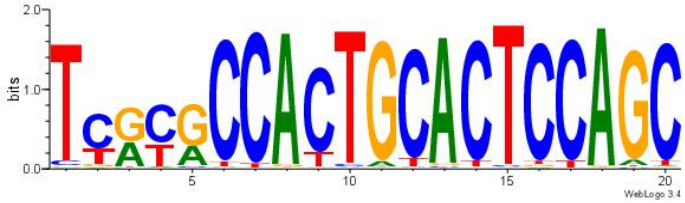

Dataset #:	1
Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.095909

Alignment:
ATCTGAGGTACCG
AAGTGAAATAA--

Original motif Consensus sequence: ATCTGAGGTACCG

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

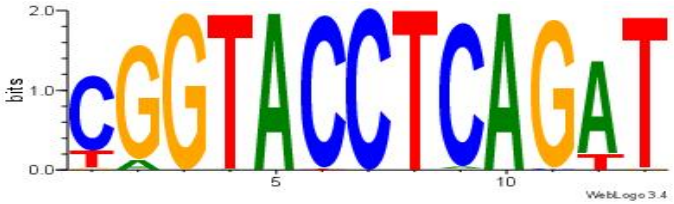

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0962541

Alignment:
AAAGTGCCGAGAKTGCAGC
-AAGTGAAATAA-------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

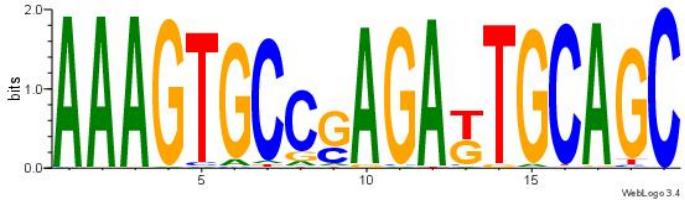

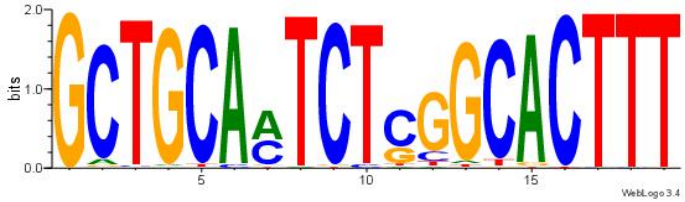

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.096785

Alignment:

```
ATTGGTGTATTTACAATCCC
-TTATTTCACTT--------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

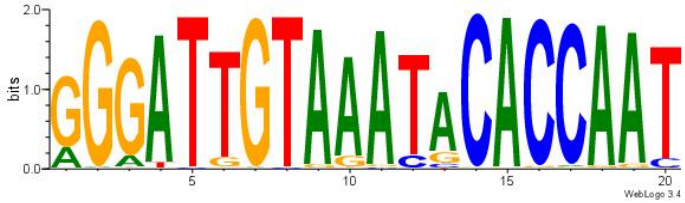

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0969215

Alignment:

```
CAGGTGGTKTTTGGTTACAT
---------TTATTTCACTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

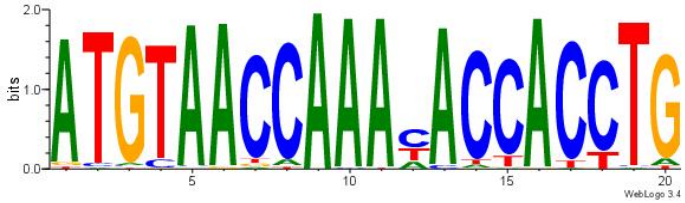

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

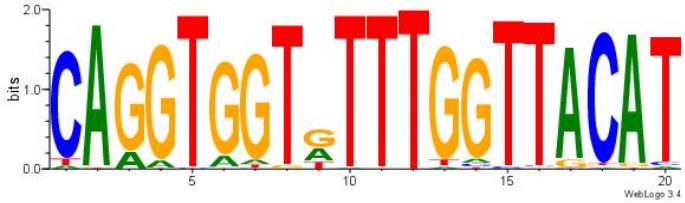

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0974745

Alignment:
AAAATGTGGTAYATAYAYAC
---AAGTGAAATAA------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

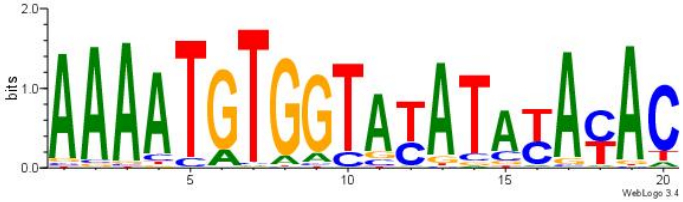

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

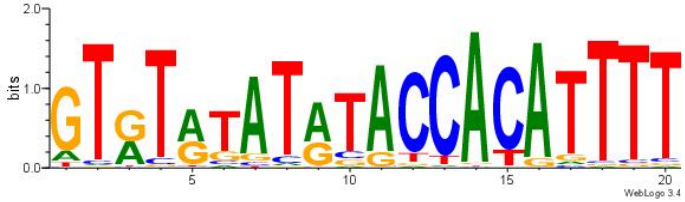

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.098065

Alignment:
GMTTAGCTCCCACTTA
--TTATTTCACTT---

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

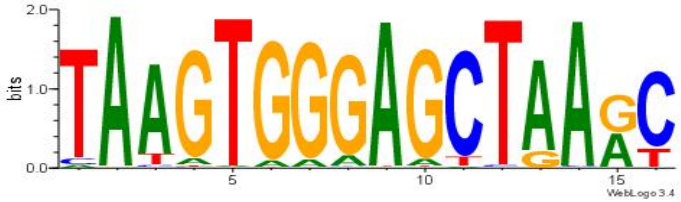

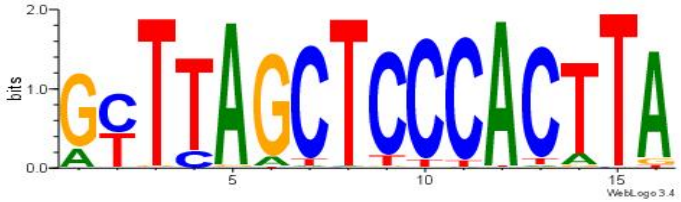

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0982285

Alignment:

```
AAGGGACATTKGAG
AAGTGAAATAA---
```

Original motif Consensus sequence: AAGGGACATTKGAG

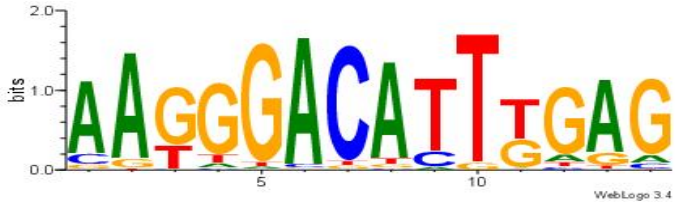

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

Dataset #:	1
Motif ID:	212

Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0982339

Alignment:

```
MTTGACTACCCTA
--TTATTTCACTT
```

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

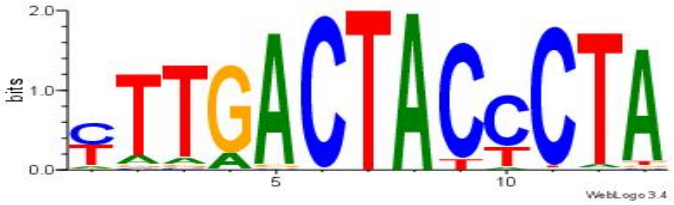

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.098658

Alignment:
ACAAGGCAAGTCCCTTCY
--AAGTGAAATAA-----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

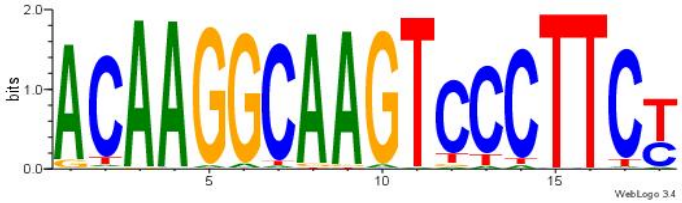

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

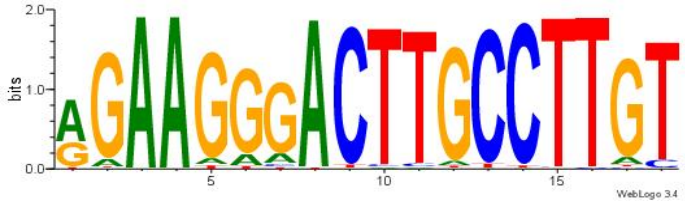

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.099317

Alignment:
AGTTGTAATTGGGAGACTT
--------TTATTTCACTT

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

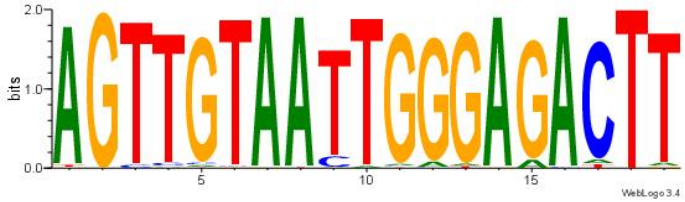

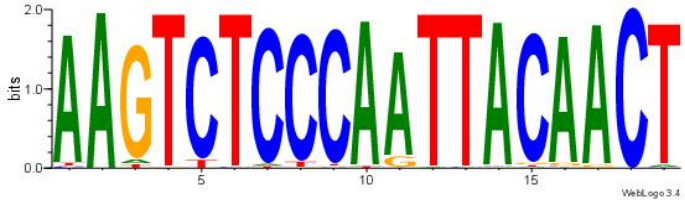

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0994879

Alignment:

```
GGAGGATCACKTGAG
-TTATTTCACTT---
```

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

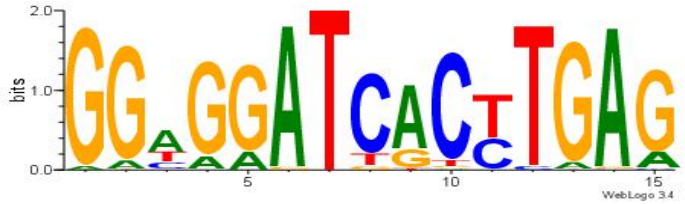

Dataset #:	1
Motif ID:	115

Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.099559

Alignment:

```
ATGATCCAGCAATYCCACTH
---------TTATTTCACTT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

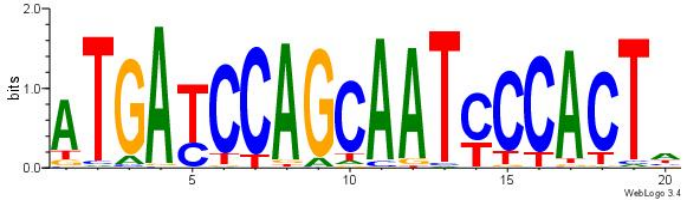

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

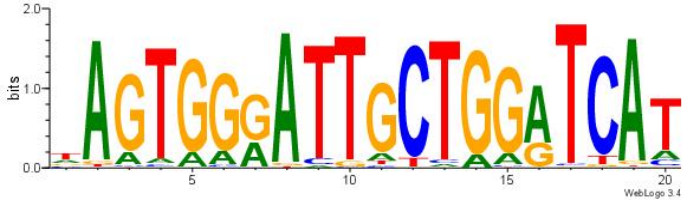

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0996695

Alignment:
GGATTTMKGACTTGCATGGG
--TTATTTCACTT-------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

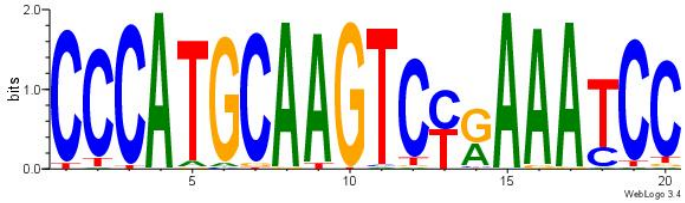

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

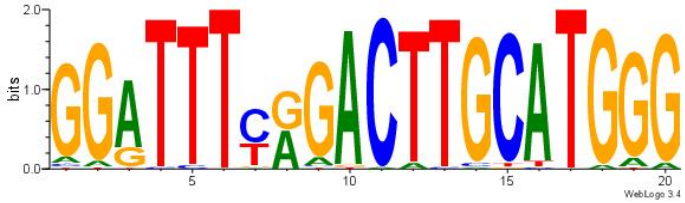

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.099729

Alignment:
TCAGGAGTGAAGCTGC
----AAGTGAAATAA-

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

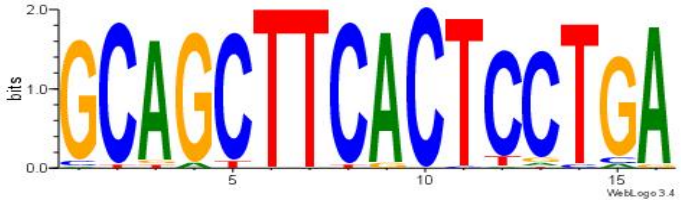

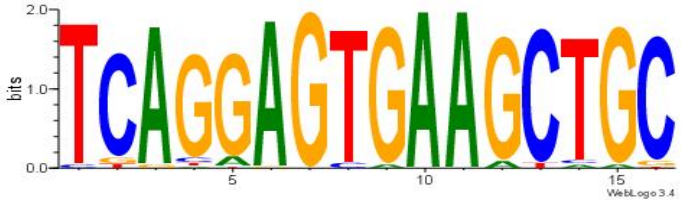

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.101016

Alignment:

```
AGAAAGGCATGTGAAAA
---AAGTGAAATAA---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

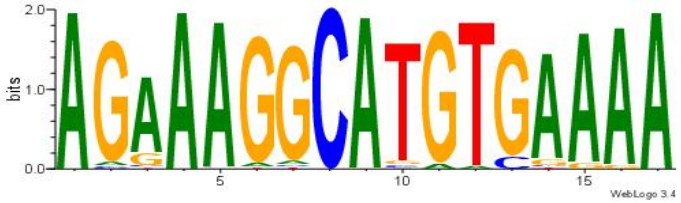

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

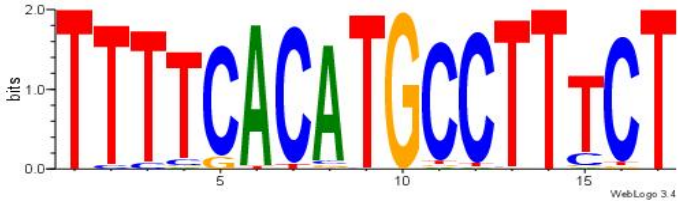

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.101533

Alignment:

```
GTTGTGAGGATTAAATGAG
-AAGTGAAATAA-------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

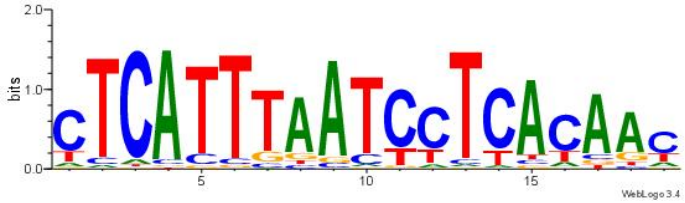

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

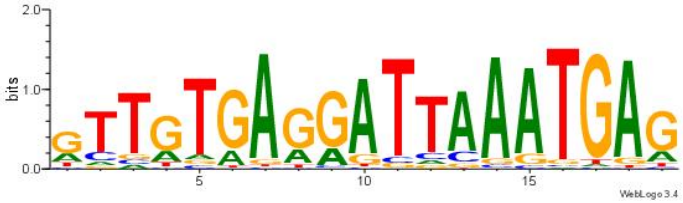

Dataset #: 1 Motif ID: 104 Motif name: Motif 104

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

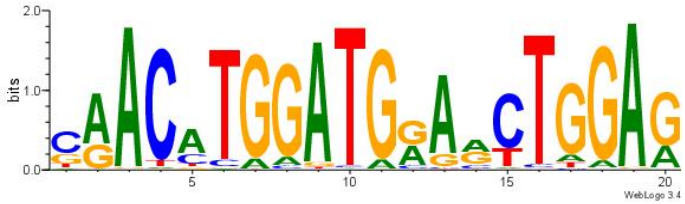

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

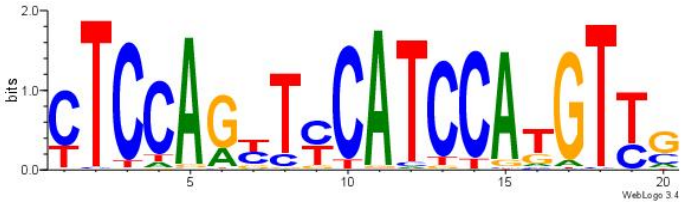

Best Matches for Motif ID 104 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0969491

Alignment:
CTCCTGCCTCAGCCTCCCRA
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

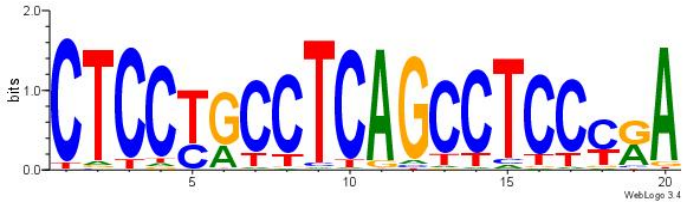

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

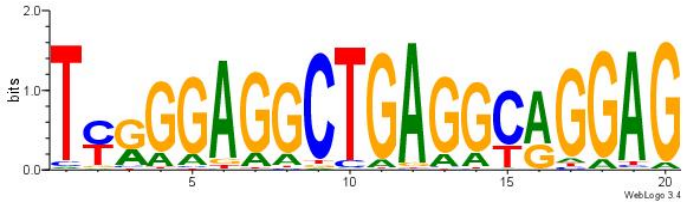

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111535

Alignment:
AGCCYCTGGYAACCAYYAWT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

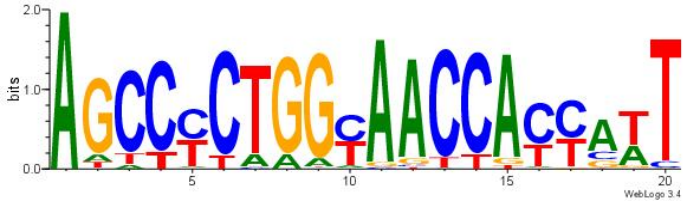

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

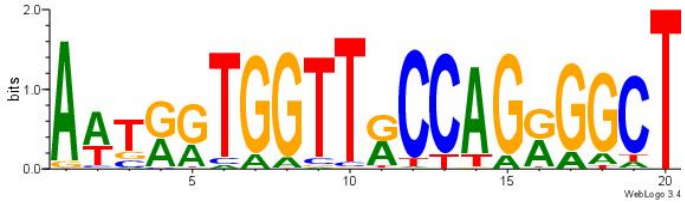

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113078

Alignment:
CTCAGTGTTAATCTCCTGTC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

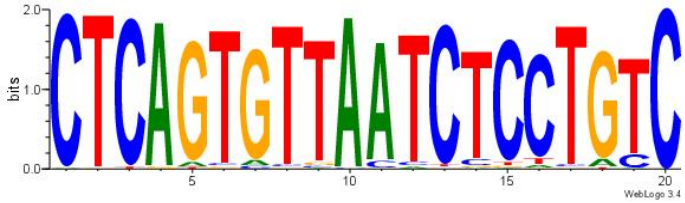

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

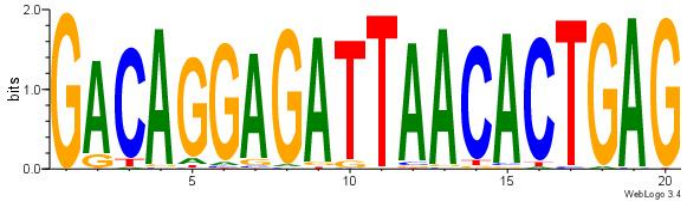

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113748

Alignment:

```
ACACATCACAAAGCAGTTTC
CTCCAGKTMCATCCATGTTG
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

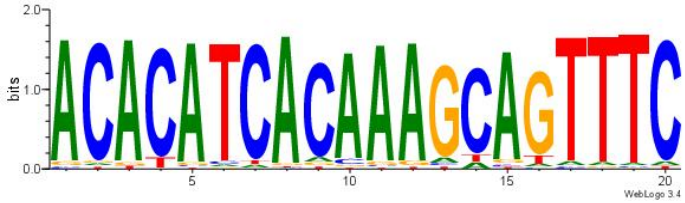

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

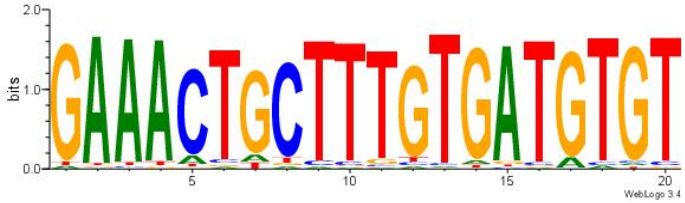

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117001

Alignment:
GTKTMTATMTACCACATTTT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

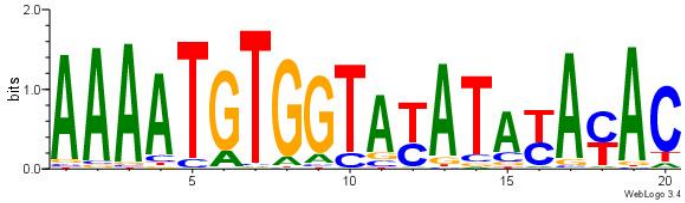

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

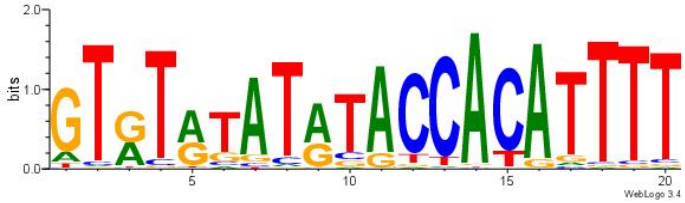

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.117991

Alignment:
ATTGATMKCCAGGGTTGATT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

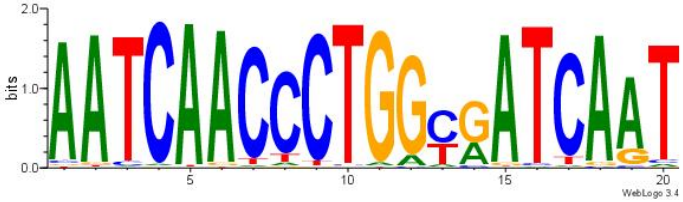

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

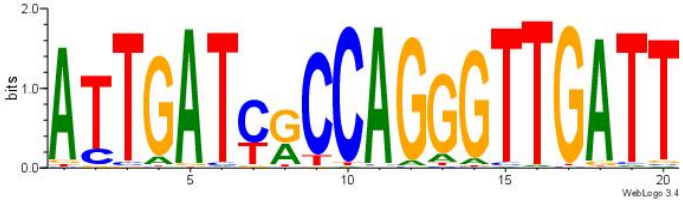

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.118919

Alignment:
MGGGATATAATCTCCTGGTG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

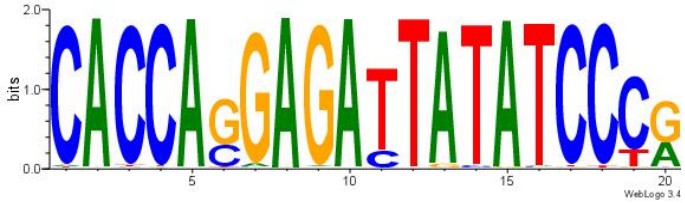

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

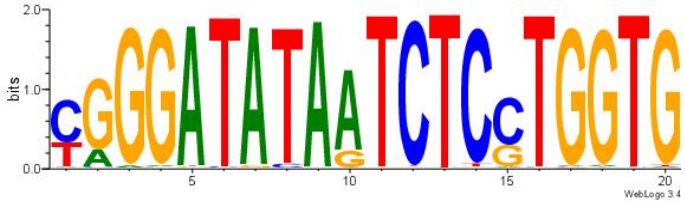

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.11957

Alignment:

```
ATGGAATAYTATTCAGCCAT
CTCCAGKTMCATCCATGTTG
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

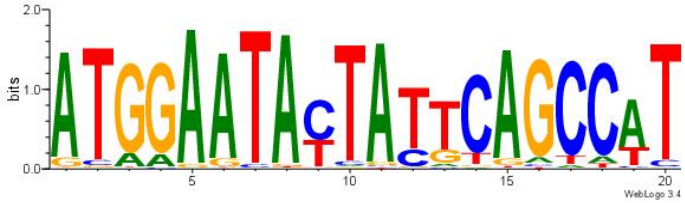

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

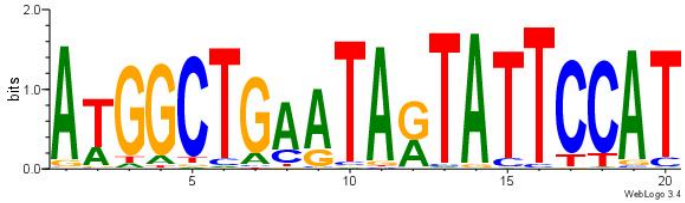

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.119571

Alignment:
AGAAATCGAGCRCAGCGCCG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

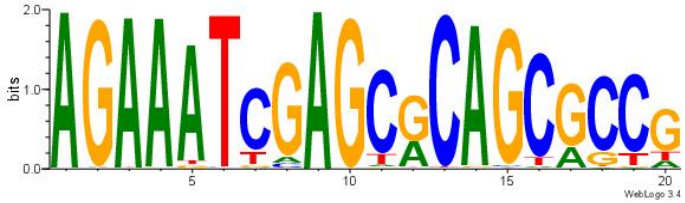

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

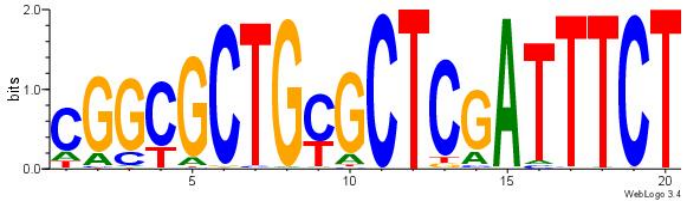

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.119793

Alignment:
MTCCTCCAGACCCCAGAATG
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

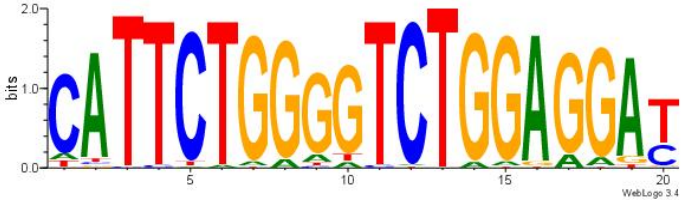

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

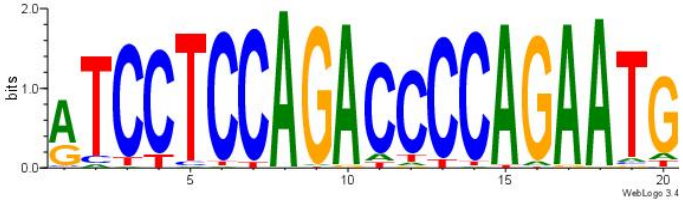

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.121094

Alignment:
AAGTTCTKGGKTACATGTGC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

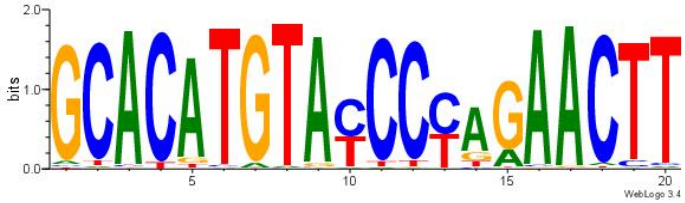

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

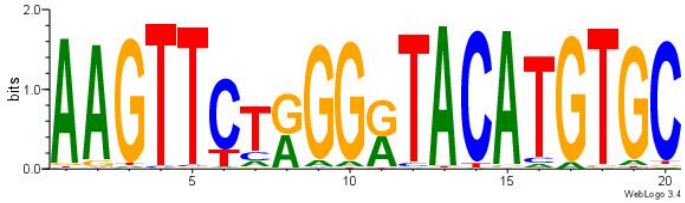

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12175

Alignment:

```
GGCAATGCCTCGCCCTGCTT
CTCCAGKTMCATCCATGTTG
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

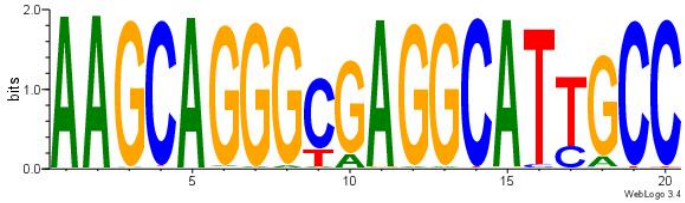

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

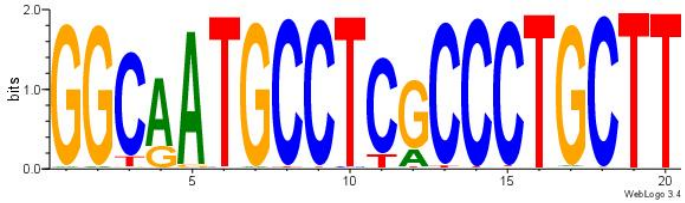

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12355

Alignment:
AATGAKATCATGTCYTTTGC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

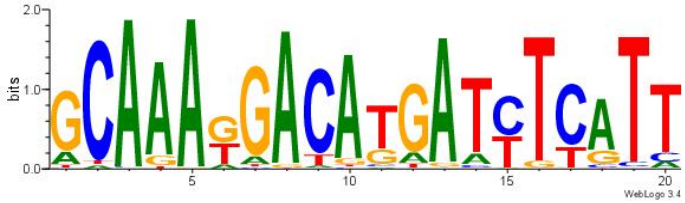

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

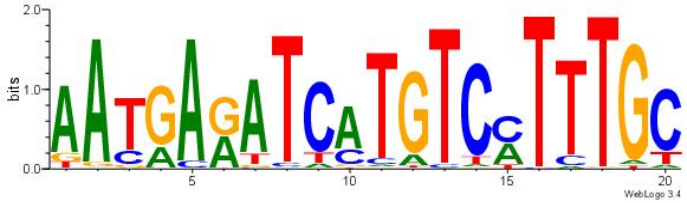

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.126466

Alignment:
ACCGAGMKMGCAGCTTCGGG
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

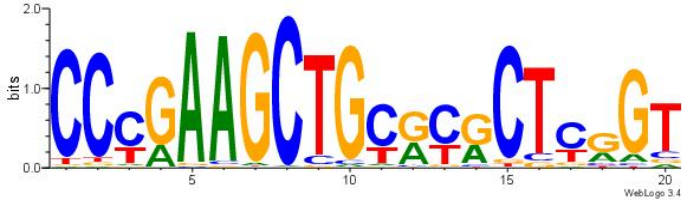

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

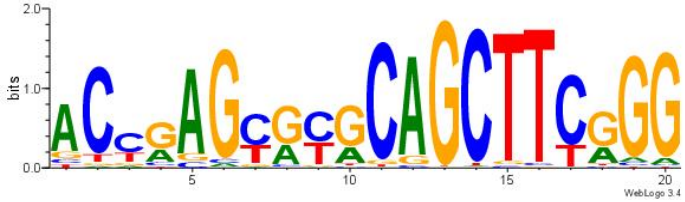

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.126616

Alignment:
CTGGGCTCCTGAGTCTGGTG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

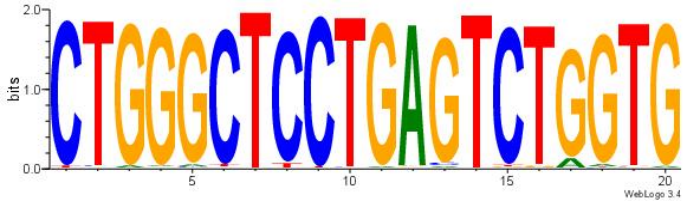

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

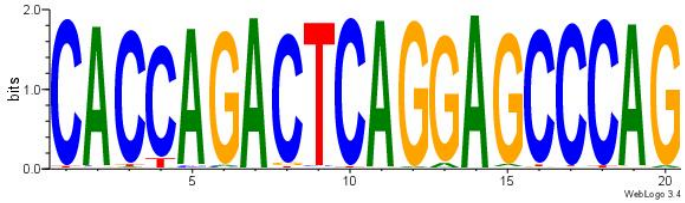

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126712

Alignment:

```
AGGACTGAGGGTGCCYRGGG
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

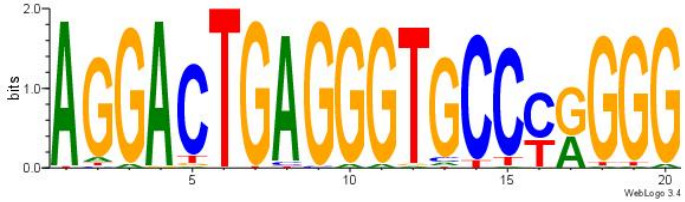

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

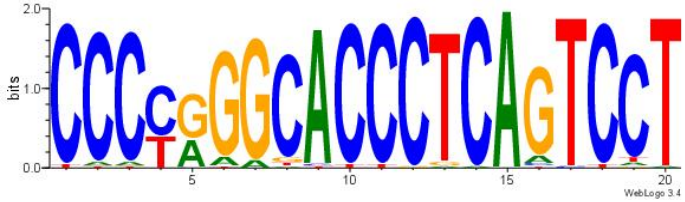

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128446

Alignment:

```
TAAAAGACTACAWATTGGGT
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

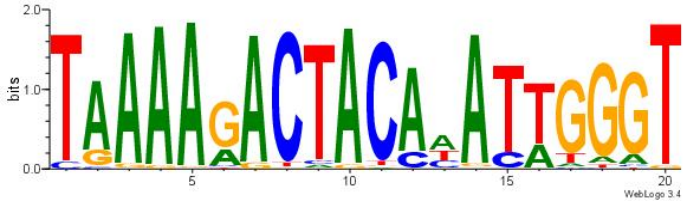

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

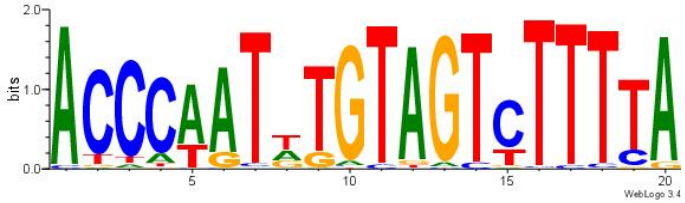

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.130343

Alignment:
CTGACTGGGAGACACCTCCC
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

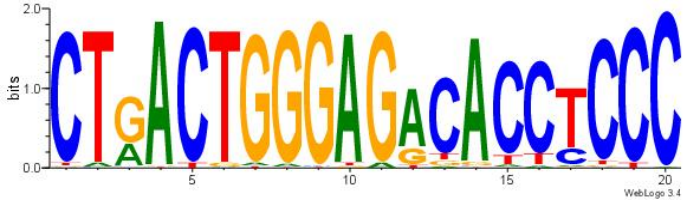

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

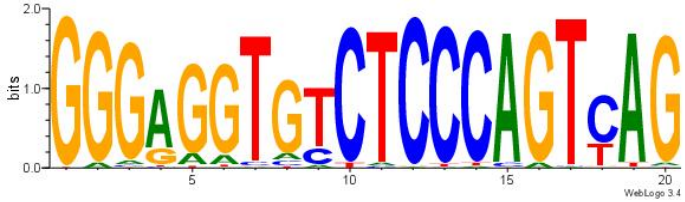

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131022

Alignment:
ARCTCCTGKSCTCAAGKGAT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

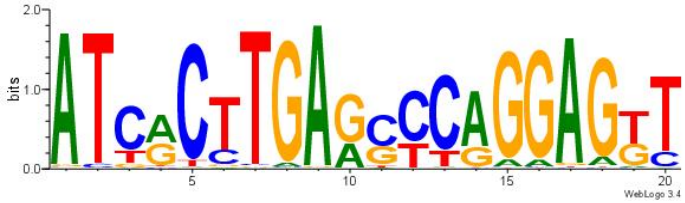

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

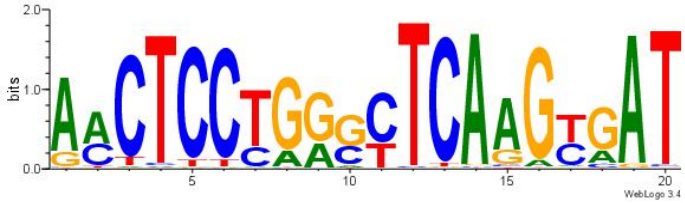

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131555

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

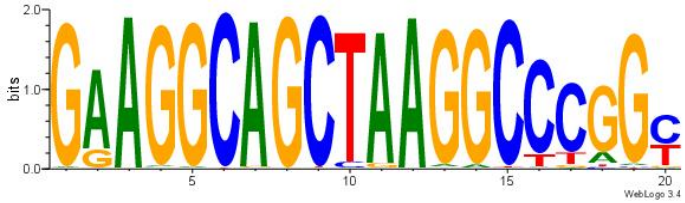

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

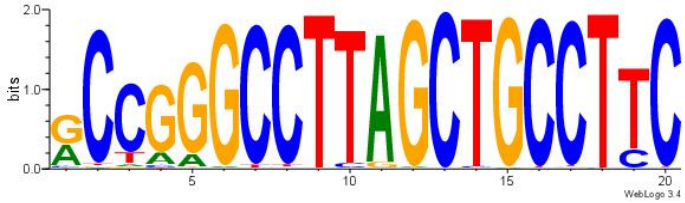

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131816

Alignment:
GCCKGGMKCMGTGGCTCAKG
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

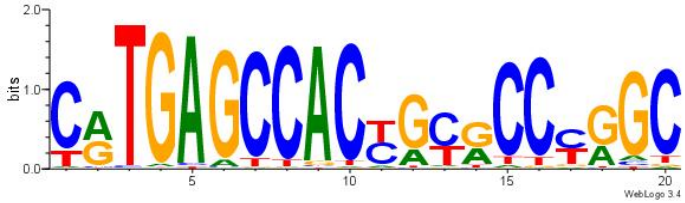

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

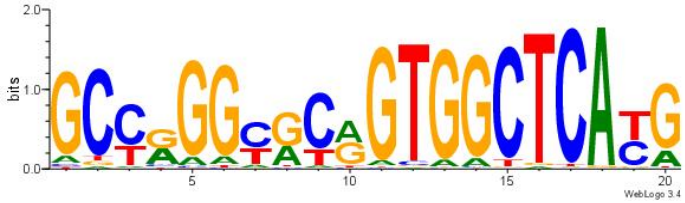

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.132642

Alignment:
ATGTAACCAAAYACCACCTG
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

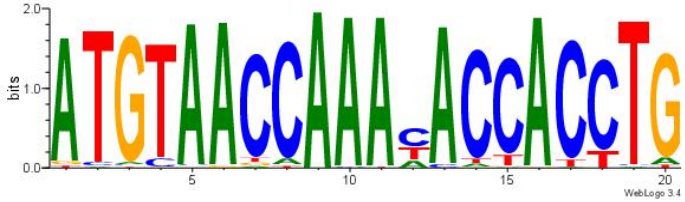

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

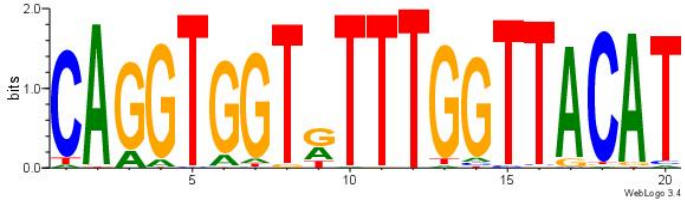

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133259

Alignment:
AAAGCTGGAGCTATTATCTA
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

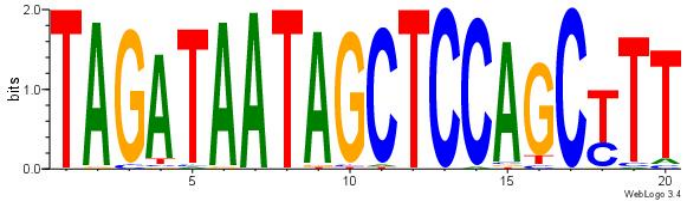

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

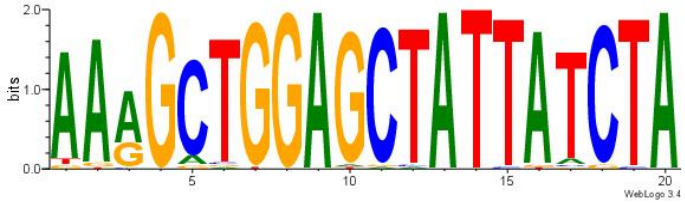

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133737

Alignment:

AGAGCCAAATCATGARTGAA

CAACATGGATGRARCTGGAG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

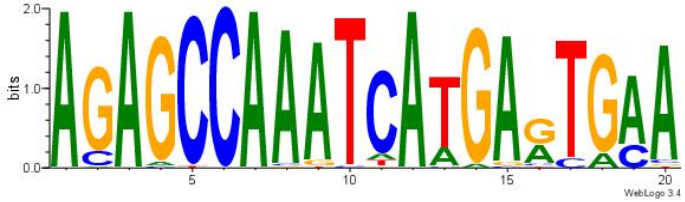

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

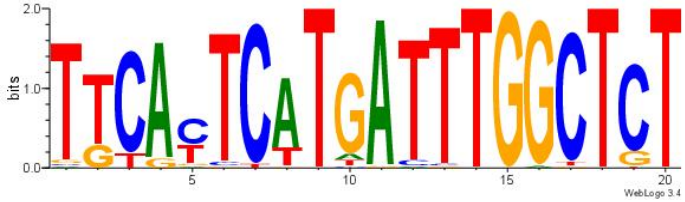

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133966

Alignment:

```
AAAMAMMKMATGTTCTCACT
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

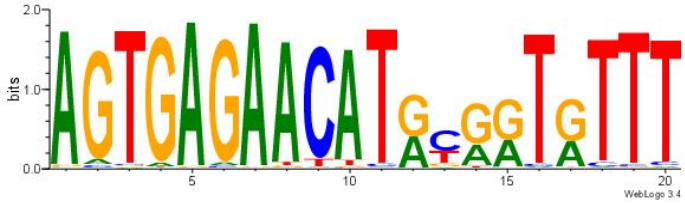

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

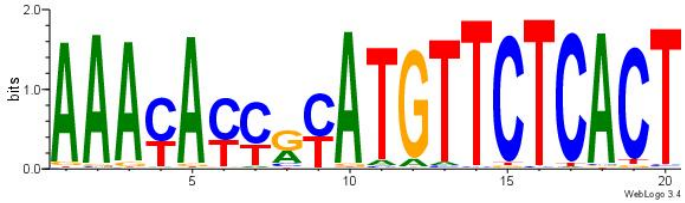

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.134293

Alignment:
GTGCCAGGCACTGTKCTARG
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

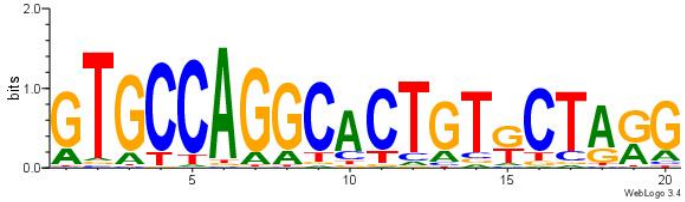

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

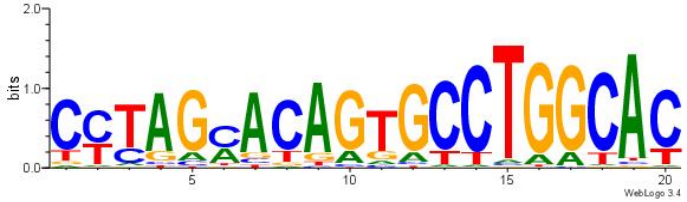

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.135533

Alignment:
TACCTGAGACTGGGTAATTT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

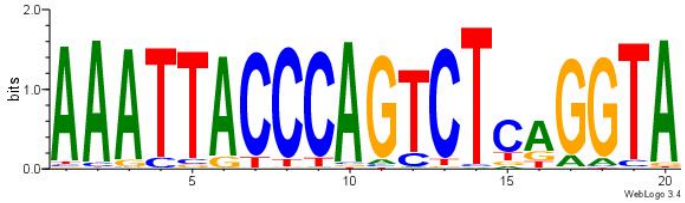

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

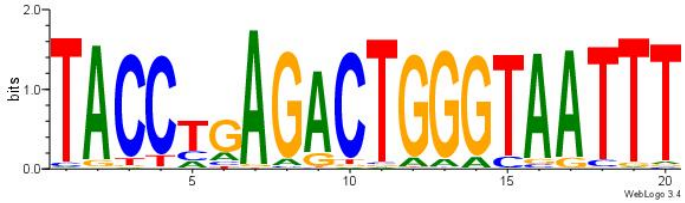

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136293

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

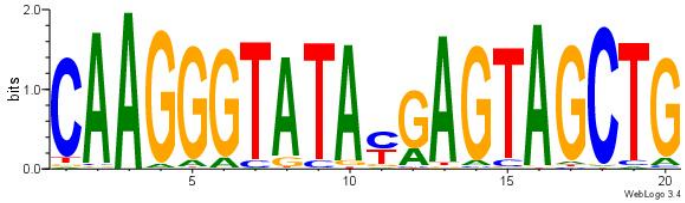

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

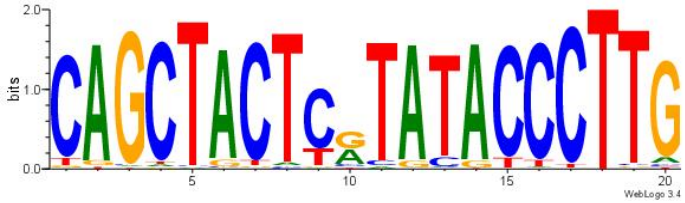

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13634

Alignment:
ATTGGTGTATTTACAATCCC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

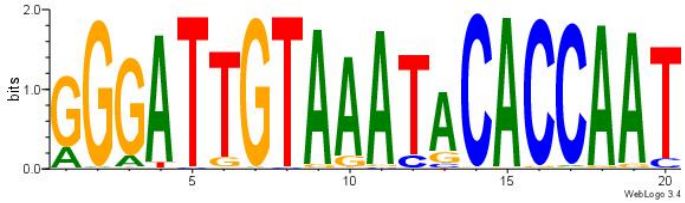

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.136501

Alignment:
TCCAAATGGGAGAAATTGGC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

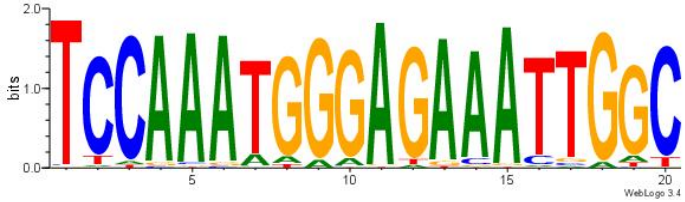

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

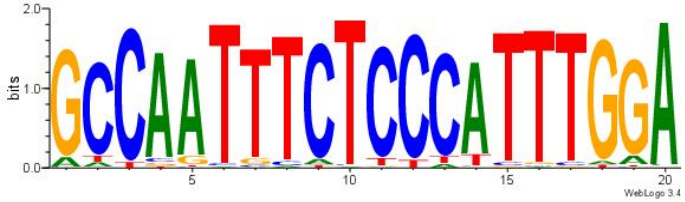

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137066

Alignment:
AAAATCACAAGCATTCCTAT
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

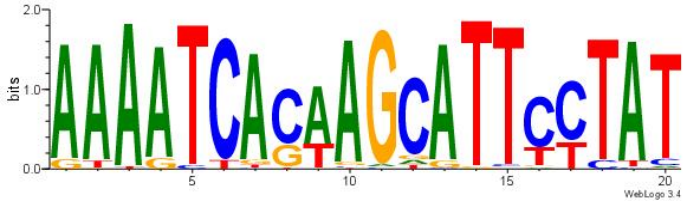

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

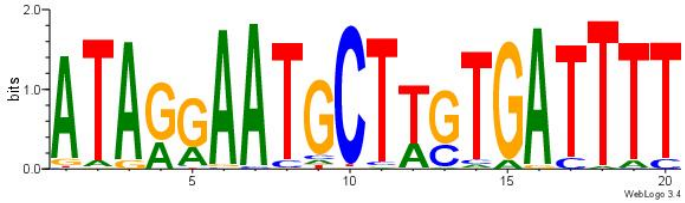

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138376

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CTCCAGKTMCATCCATGTTG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

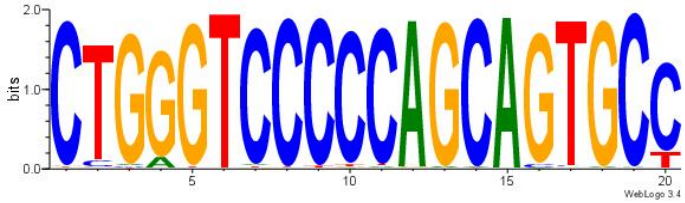

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

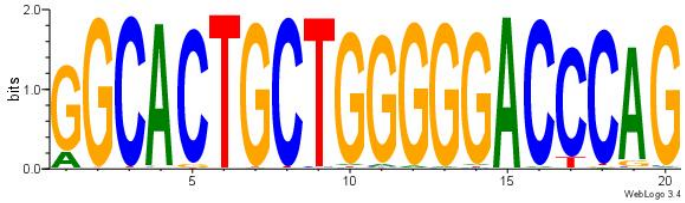

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138429

Alignment:
GTTTAACCATTGAGGGCCAG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

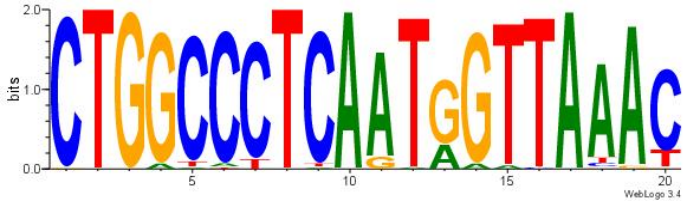

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

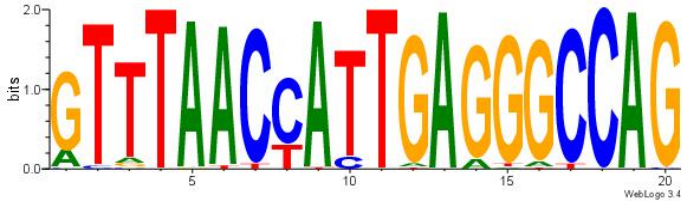

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.138794

Alignment:
ATGGACAYTTRGGTTGHTTC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

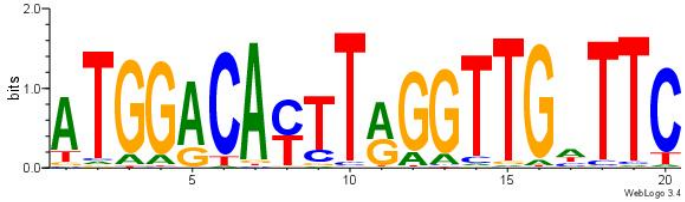

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

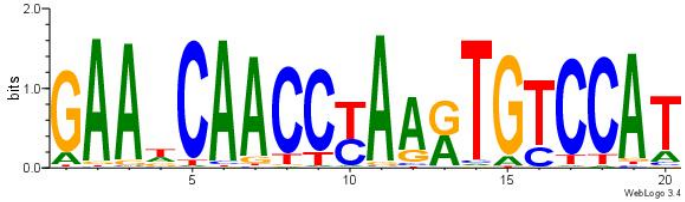

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138817

Alignment:
GGAGCCGGCTCCCTCAGCTT
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

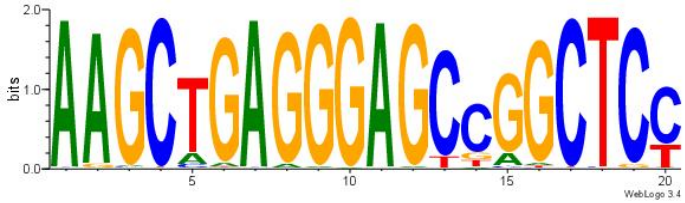

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

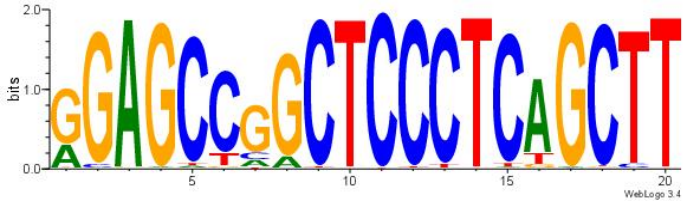

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139214

Alignment:

```
CAAGTTGACACATAAAATTA
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

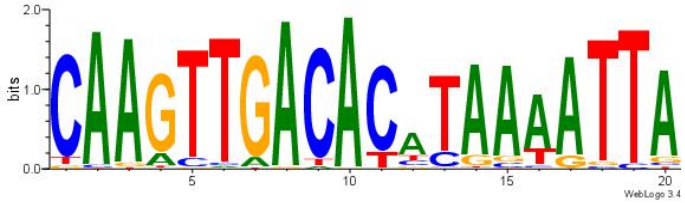

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

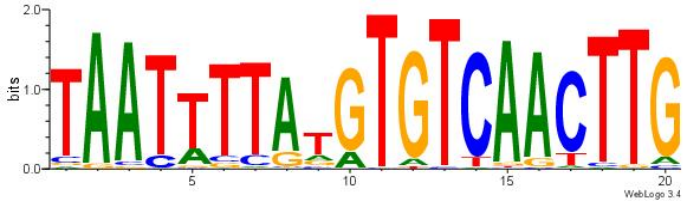

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140835

Alignment:
GAGAGAGAGAGAGAGAGAGA
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

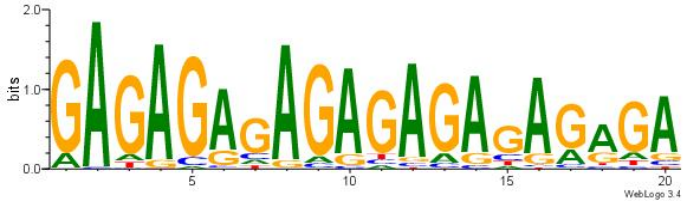

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

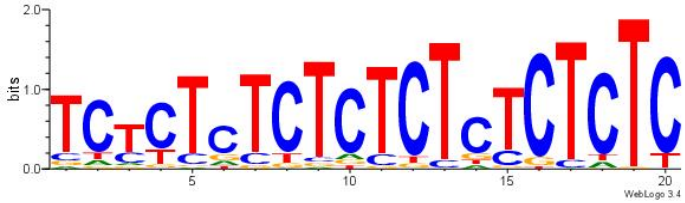

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.141401

Alignment:
ACTTTGGACTGTGGACTTTT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

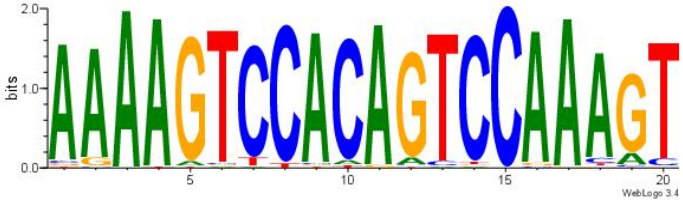

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

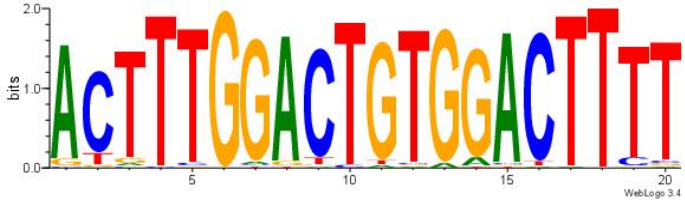

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141856

Alignment:
ATGATCCAGCAATYCCACTH
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

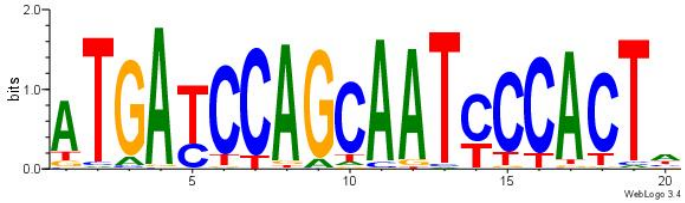

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

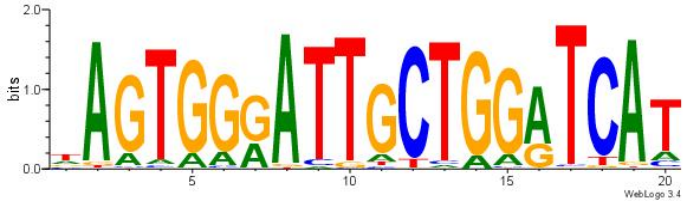

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142335

Alignment:

```
AAGCTCGAACTGGGTGGAGC
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

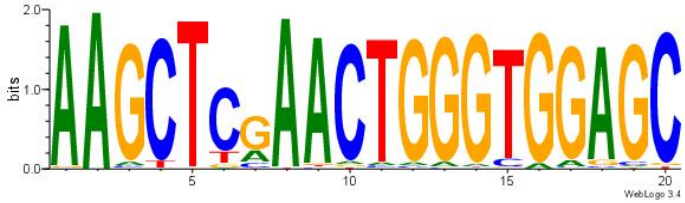

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

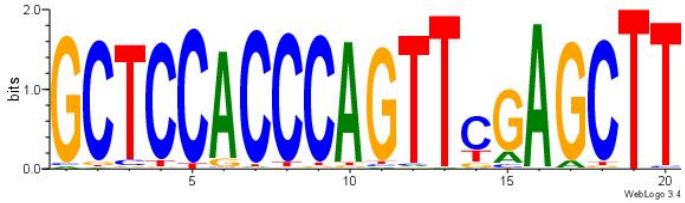

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14245

Alignment:
AACAACASACACTGGGGCCT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

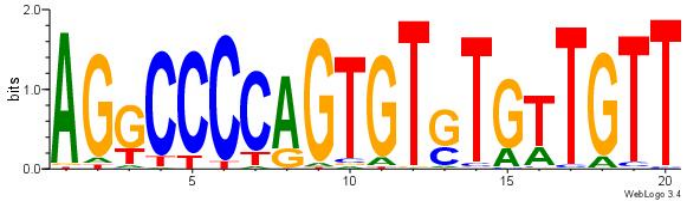

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

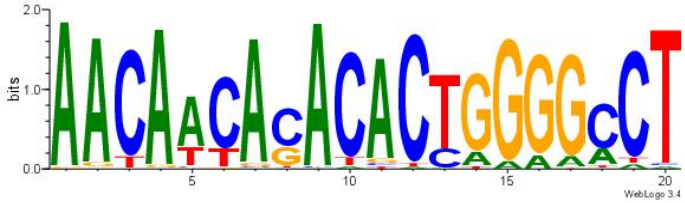

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.142519

Alignment:
AGTAGGTGCTCARTAAATRB
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

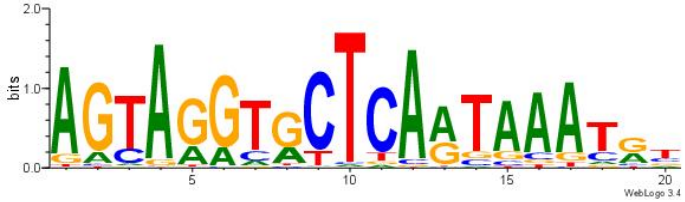

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

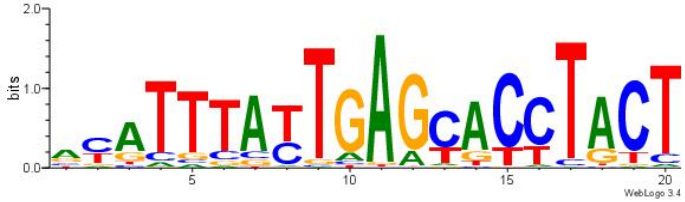

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143224

Alignment:
CTTGCCCAAGGTCACACAGC
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

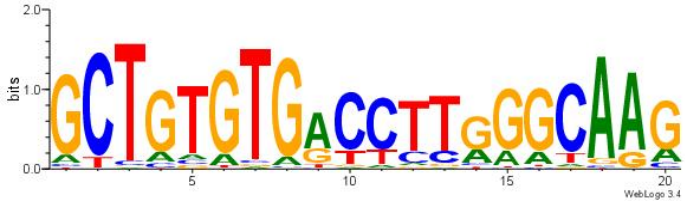

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

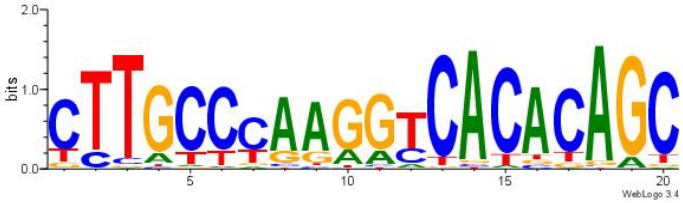

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143754

Alignment:

CGAGCCTCCCCGAYGAGCGC
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

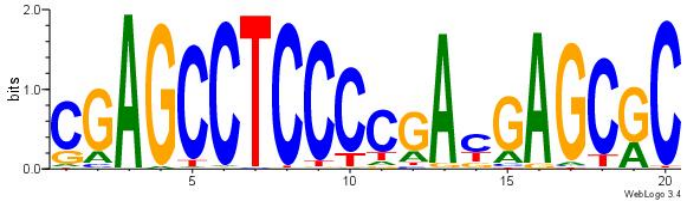

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

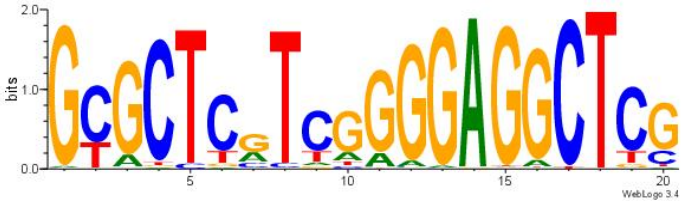

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144343

Alignment:
ACTGTCTTCCACCTCCACAT
CTCCAGKTMCATCCATGTTG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

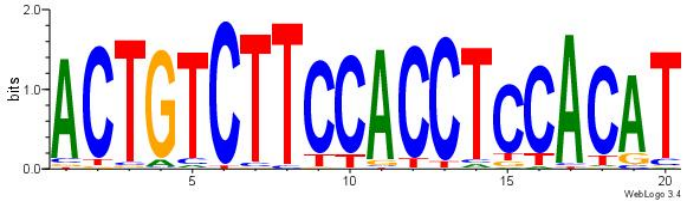

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

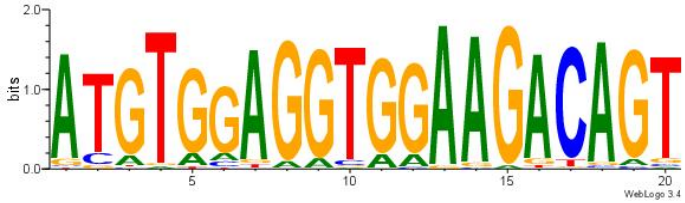

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.144414

Alignment:
GGATTTMKGACTTGCATGGG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

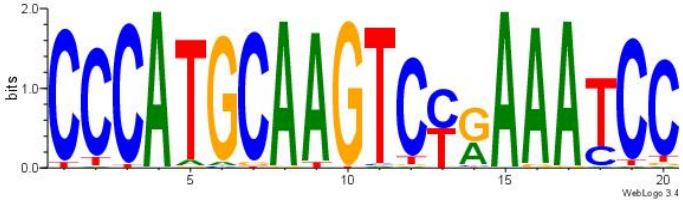

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

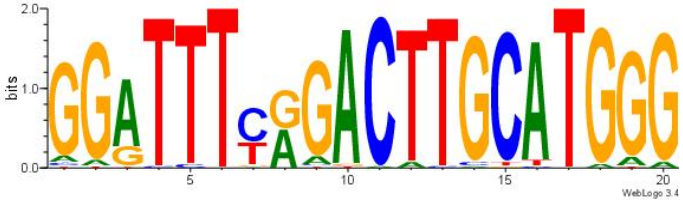

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144486

Alignment:
MGTCTMKCTCTGTKGCCCAG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

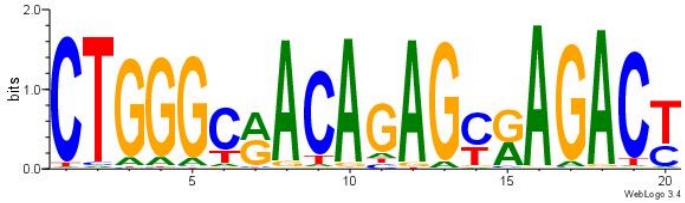

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

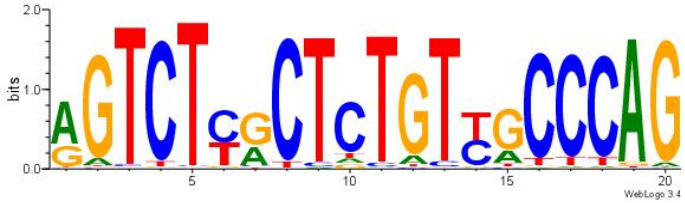

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14605

Alignment:

```
TGGAGAACCTTTATGTCTAG
CAACATGGATGRARCTGGAG
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

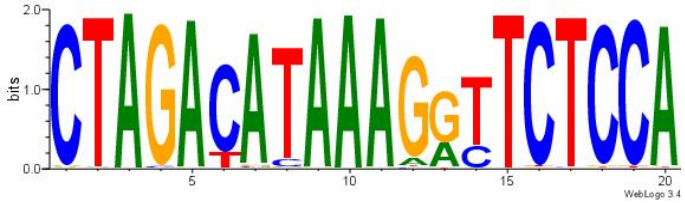

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

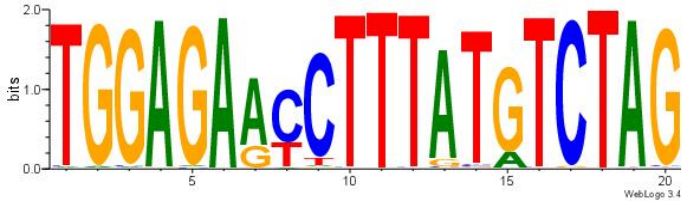

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146086

Alignment:
GTGTCKGGAGTTTGTTCCTT
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

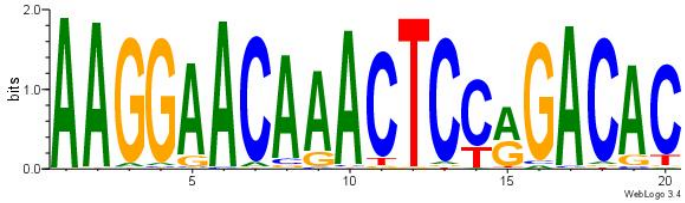

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

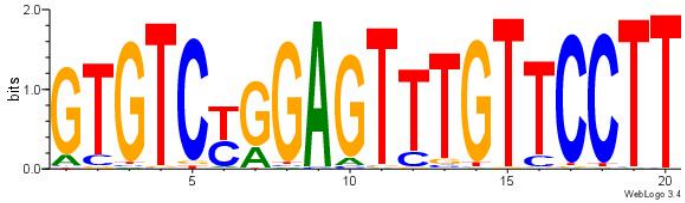

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.146605

Alignment:
GGGCTCCCACAGTGCAGCGG
CAACATGGATGRARCTGGAG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

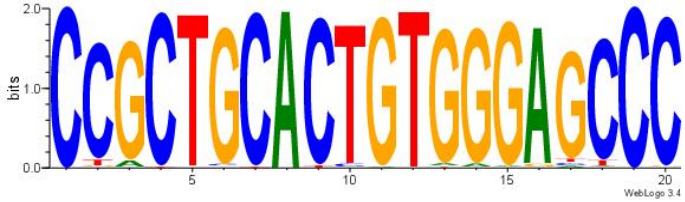

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

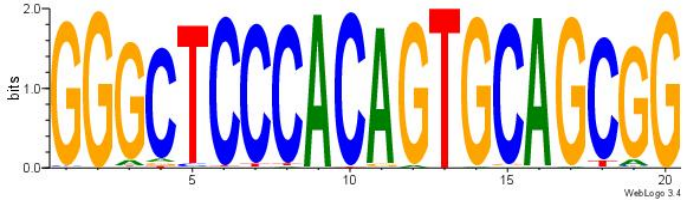

Dataset #: 1 Motif ID: 105 Motif name: Motif 105

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

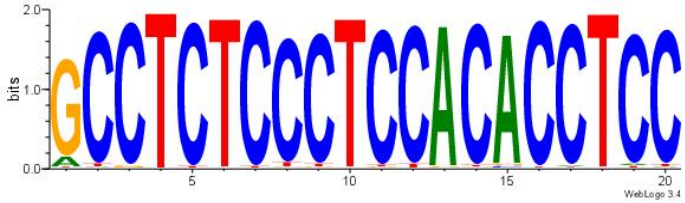

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

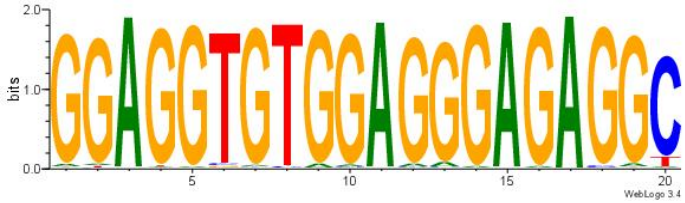

Best Matches for Motif ID 105 (Highest to Lowest)

Dataset #: 1
Motif ID: 52
Motif name: Motif 52

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118803

Alignment:
GGTGGAGCTGCCTGCCAGTC
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

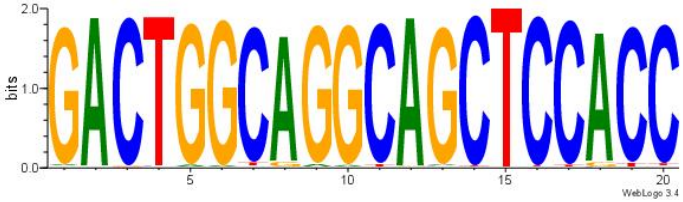

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

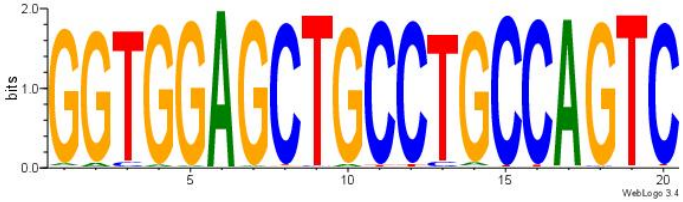

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11947

Alignment:
TCKMGCCACTGCACTCCAGC
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

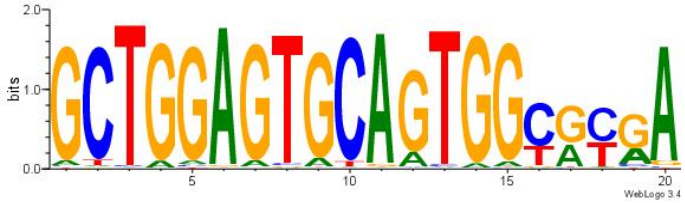

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

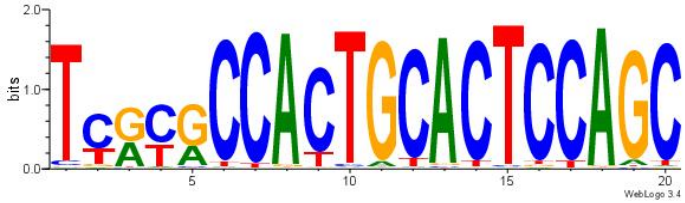

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124156

Alignment:
KCCGGGCCTTAGCTGCCTTC
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

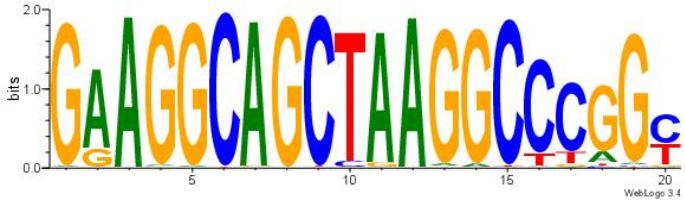

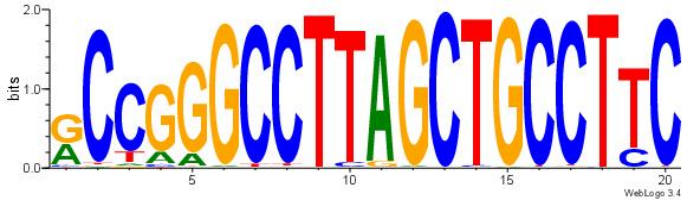

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124772

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

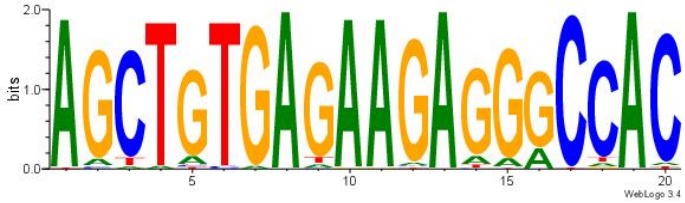

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

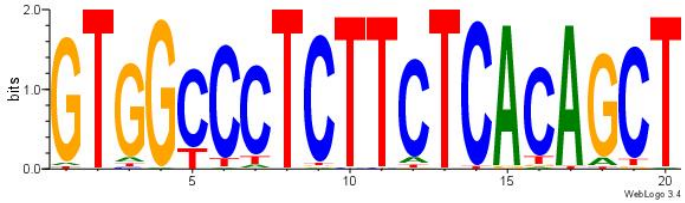

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127369

Alignment:

```
ATCTGACAGGAGGYRGAGCT
GGAGGTGTGGAGGGAGAGGC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

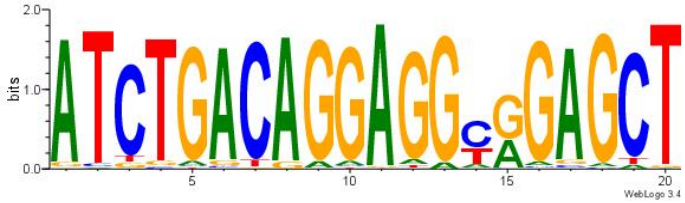

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

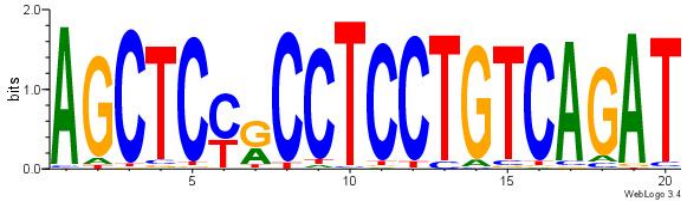

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131321

Alignment:
TCTGGAGTGGACCTCCAGCA
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

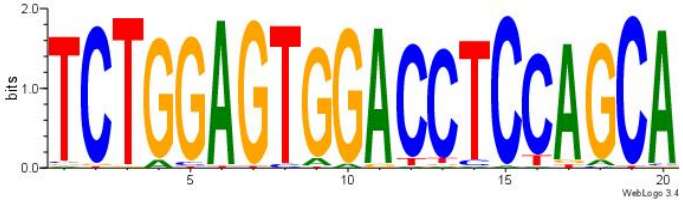

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

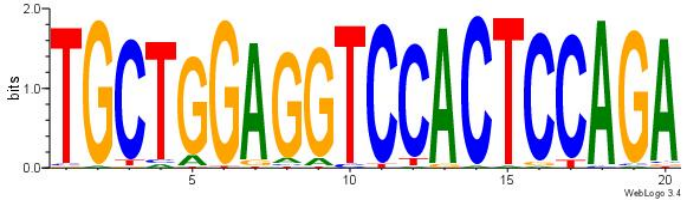

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131665

Alignment:
GGCACTGCTGGGGGACCCAG
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

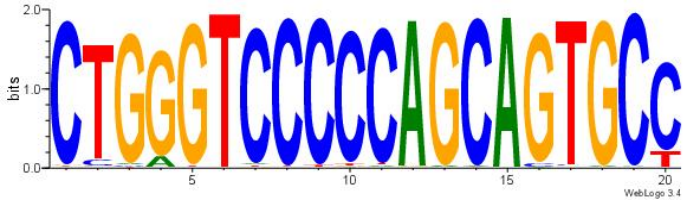

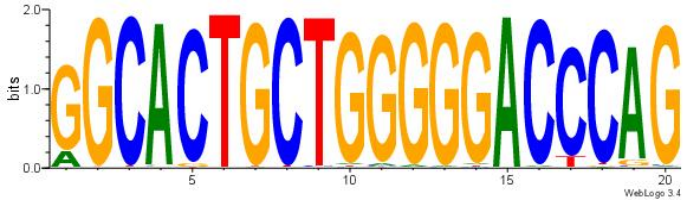

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132746

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

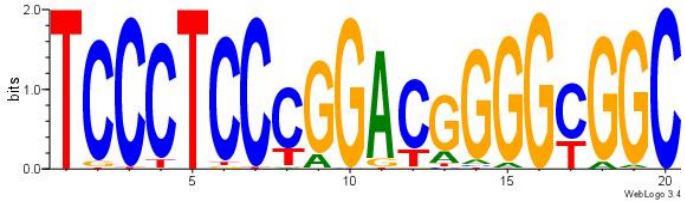

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

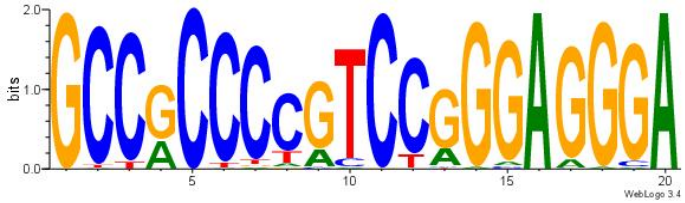

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138848

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GGAGGTGTGGAGGGAGAGGC
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

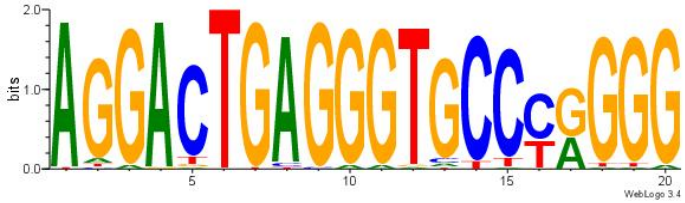

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

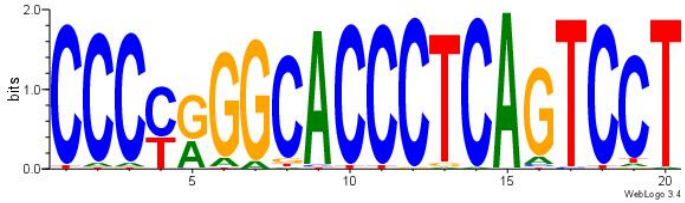

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140948

Alignment:
GGATTTMKGACTTGCATGGG
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

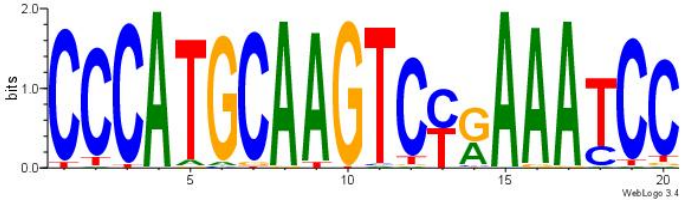

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

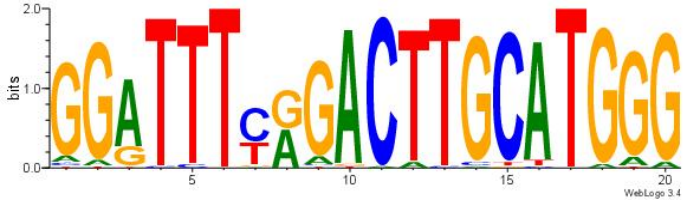

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142138

Alignment:
GCCAGTCACAAAARGACAMA
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

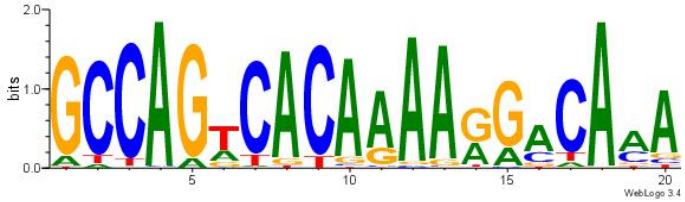

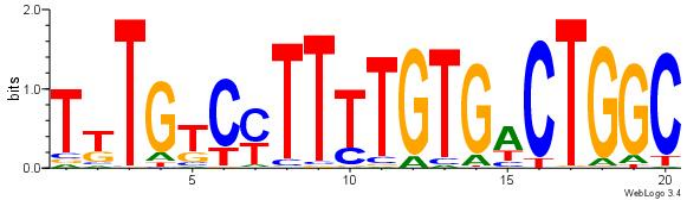

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142253

Alignment:

```
ACACATCACAAAGCAGTTTC
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

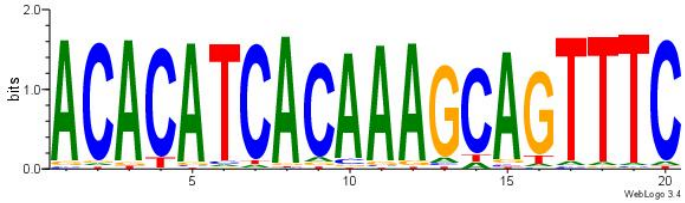

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

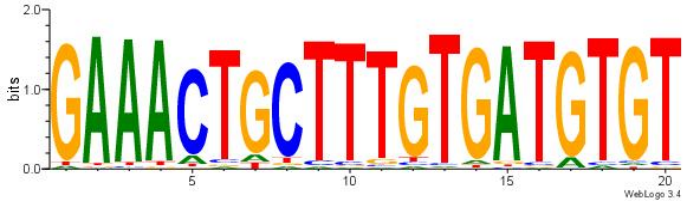

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142587

Alignment:

```
GCCAATTTCTCCCATTTGGA
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

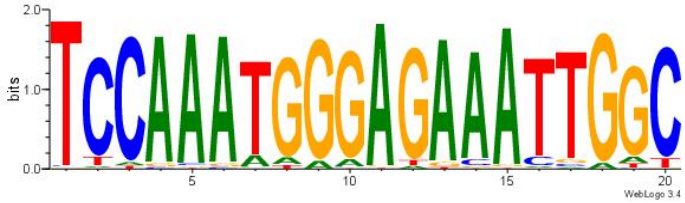

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

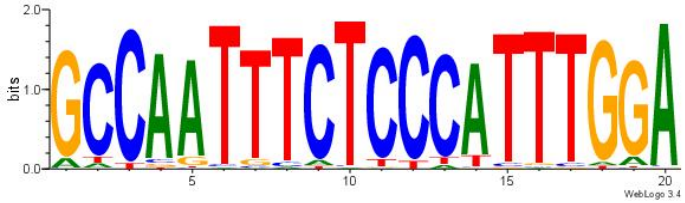

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14633

Alignment:
AAGCAGGGCGAGGCATTGCC
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

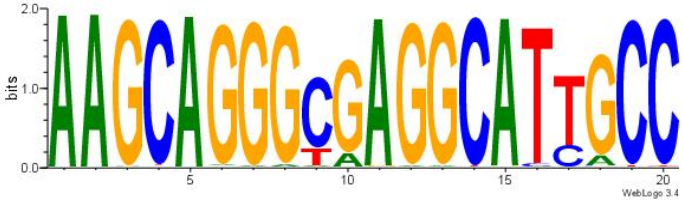

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

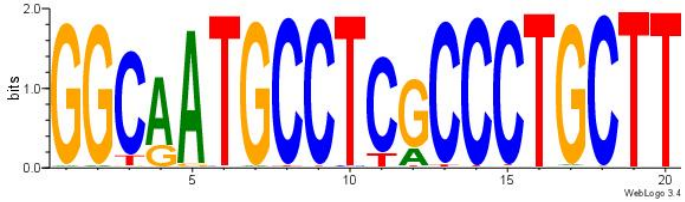

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146464

Alignment:
GCTGGCCCGCAAGCGCCGCG
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

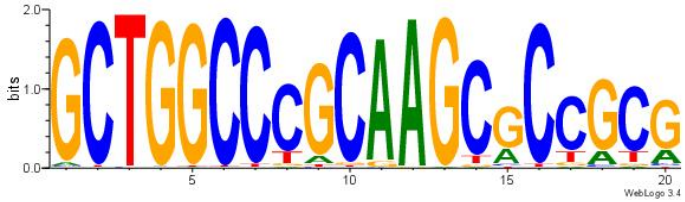

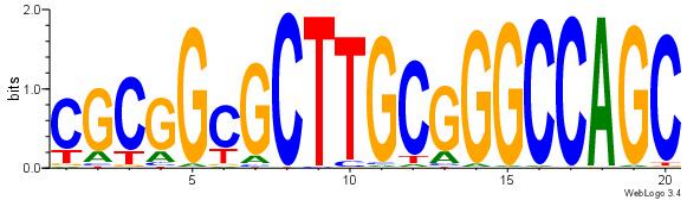

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150723

Alignment:

```
ATTGGTGTATTTACAATCCC
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

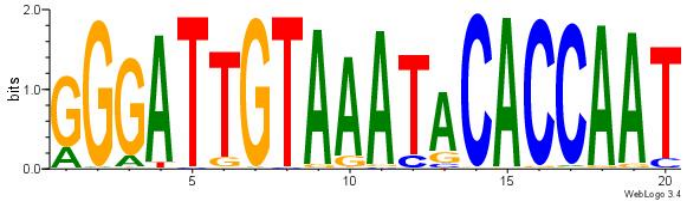

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153841

Alignment:

```
ACTTTGGACTGTGGACTTTT
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

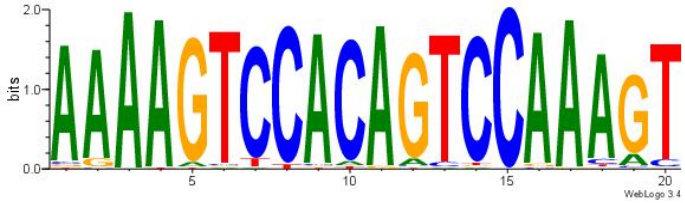

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

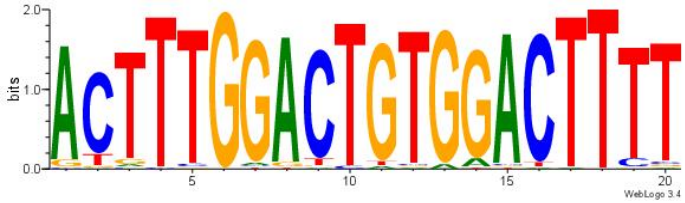

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154569

Alignment:
CGAGCCTCCCCGAYGAGCGC
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

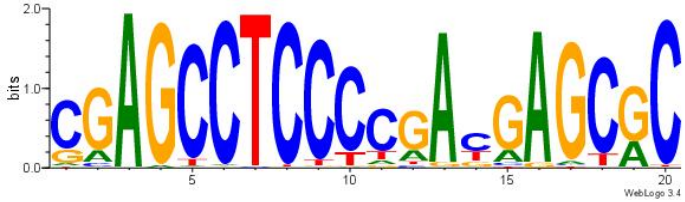

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

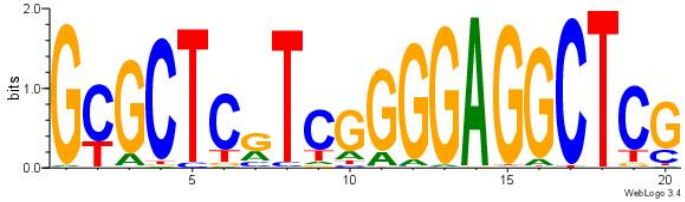

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155178

Alignment:
GAAAGGGAACTCCCTGACCC
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

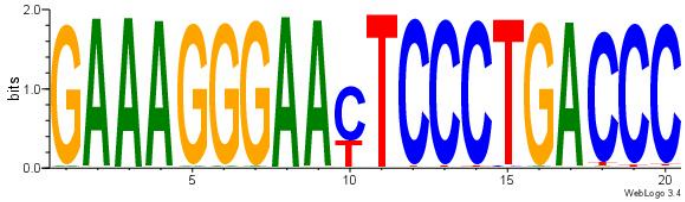

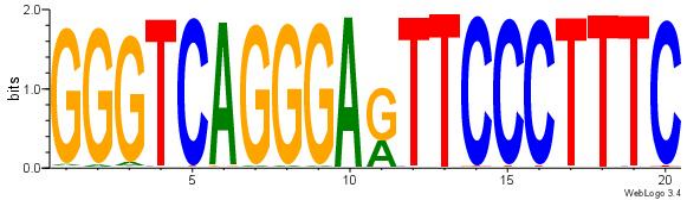

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155447

Alignment:
GACAGGAGATTAACACTGAG
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

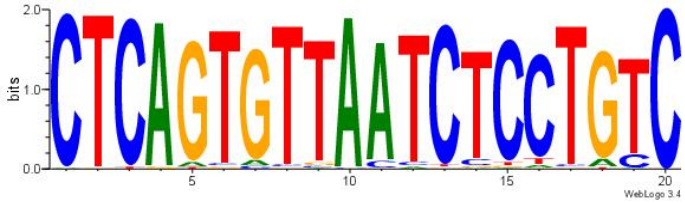

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

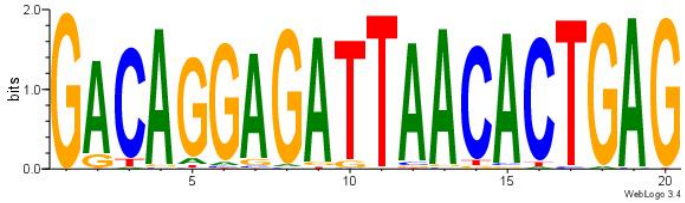

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155633

Alignment:
GTAACACTCACCGCGARGGT
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

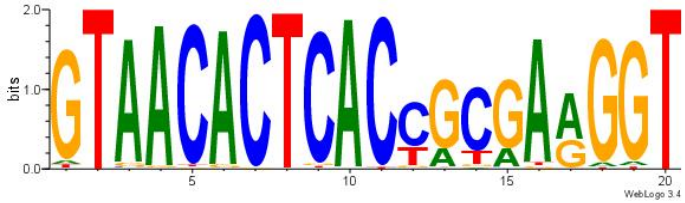

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

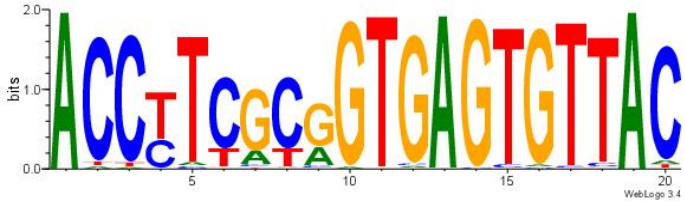

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156532

Alignment:
GTCTCWAMAAAAAAWAMAAA
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

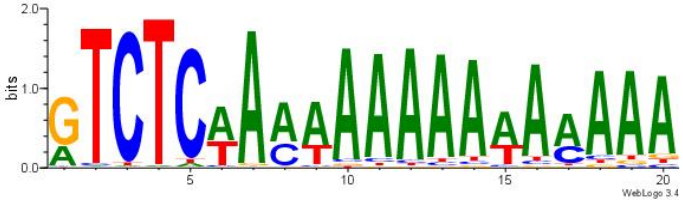

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

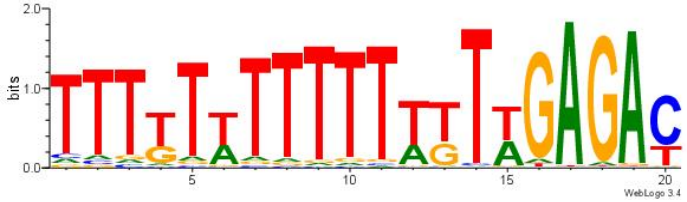

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.156744

Alignment:
AAGCTCGAACTGGGTGGAGC
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

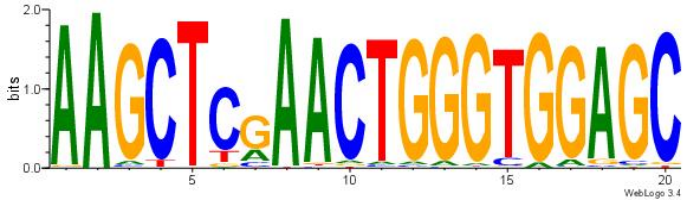

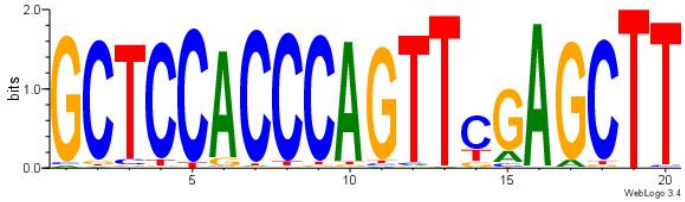

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156826

Alignment:

```
AAAATGTGGTAYATAYAYAC
GGAGGTGTGGAGGGAGAGGC
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

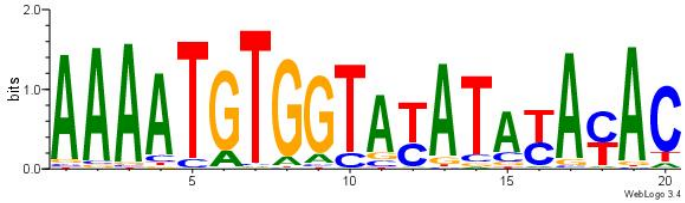

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

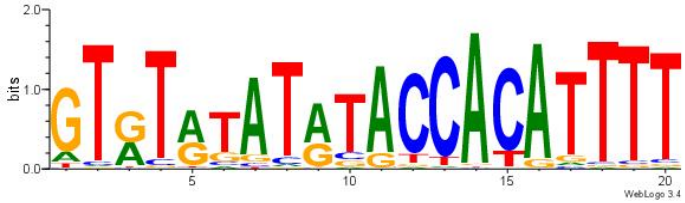

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157109

Alignment:

```
TGGCTTCACCCAGTGGATCC
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

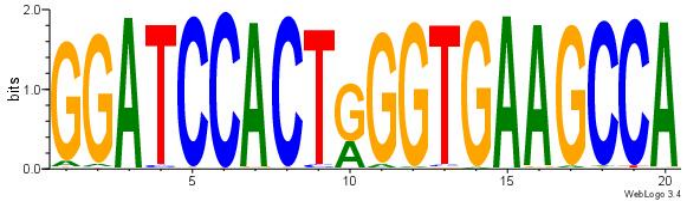

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

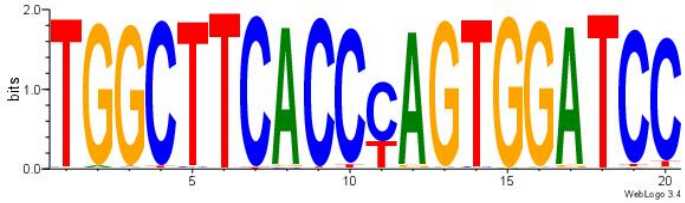

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157175

Alignment:
ACCGAGMKMGCAGCTTCGGG
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

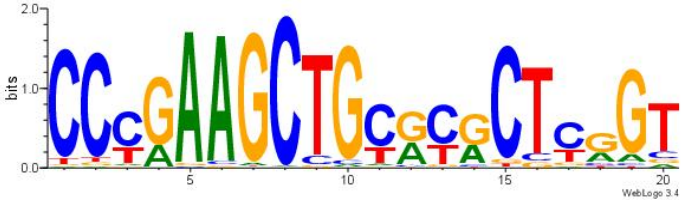

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

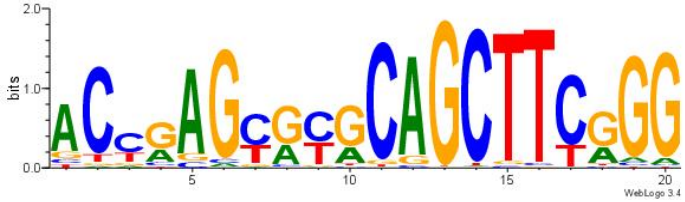

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157562

Alignment:
CCACCACAGCTCAAGGAGGC
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

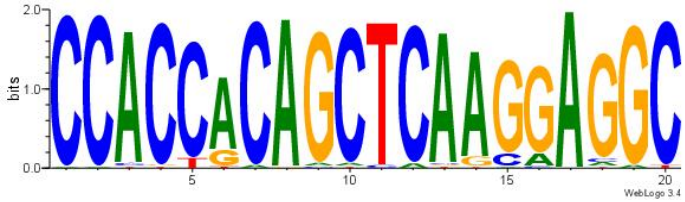

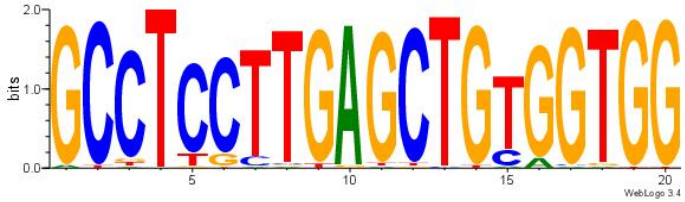

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157681

Alignment:
GAAHCAACCKAAKTGTCCAT
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

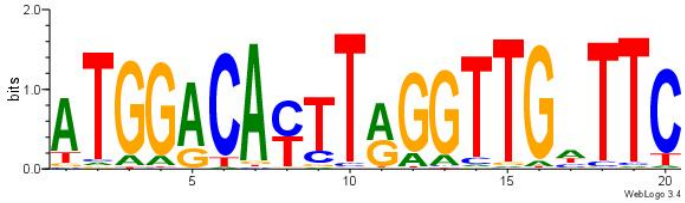

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

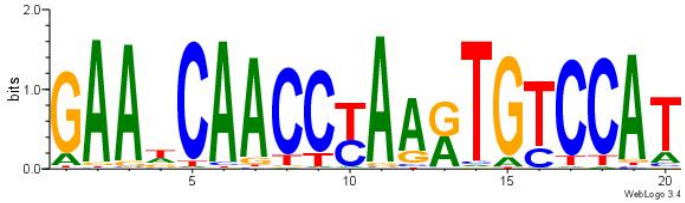

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159311

Alignment:
TTCAMTCATGATTTGGCTCT
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

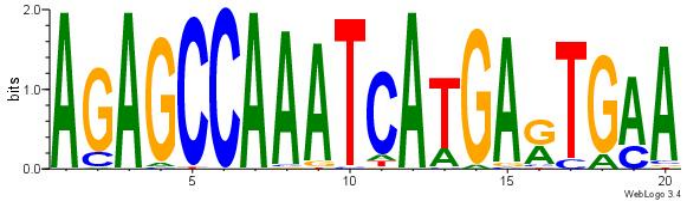

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

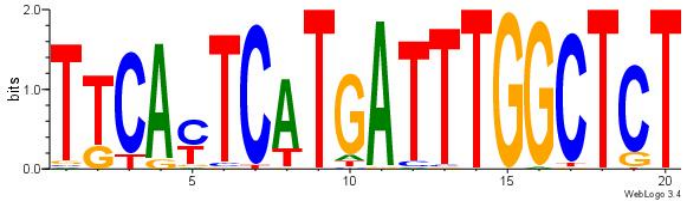

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160402

Alignment:
ATGTAACCAAAYACCACCTG
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

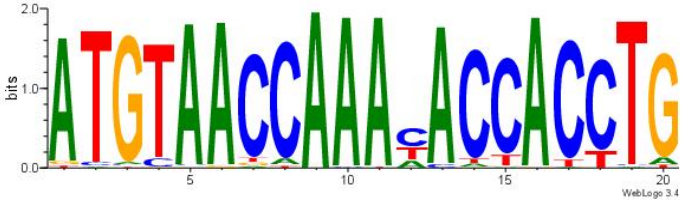

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

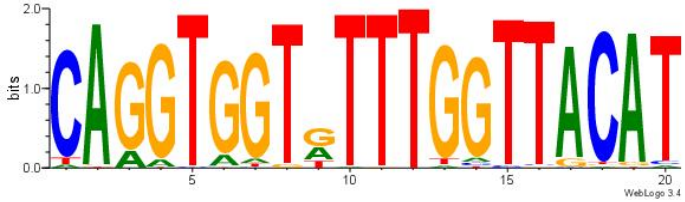

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160557

Alignment:
GCACATGTAYCCYAGAACTT
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

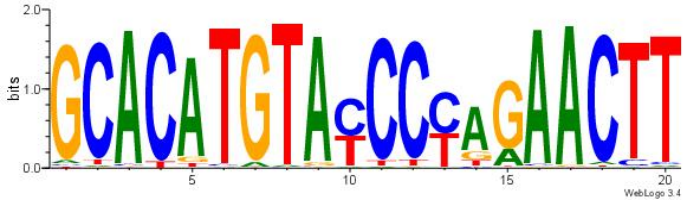

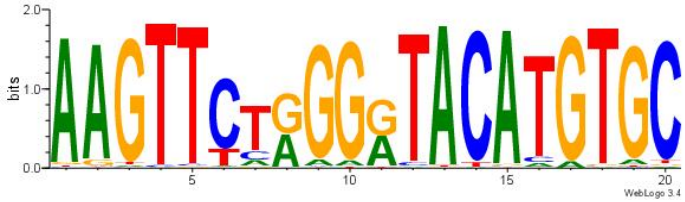

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160862

Alignment:

```
GTTTAACCATTGAGGGCCAG
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

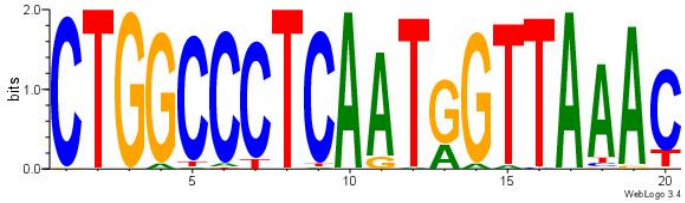

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

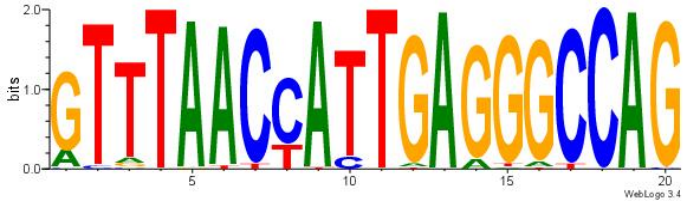

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160956

Alignment:

```
ATTGATMKCCAGGGTTGATT
GGAGGTGTGGAGGGAGAGGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

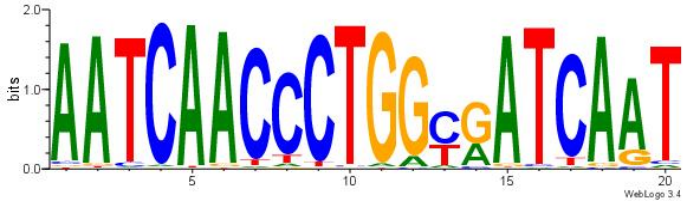

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

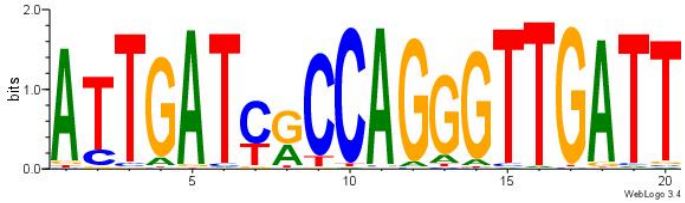

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161748

Alignment:
GAGAGAGAGAGAGAGAGAGA
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

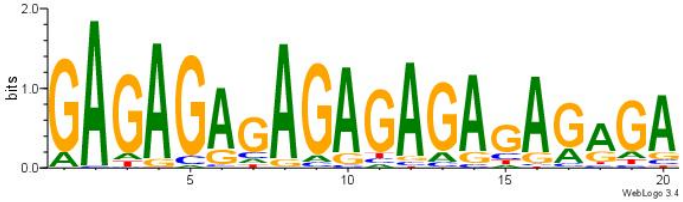

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

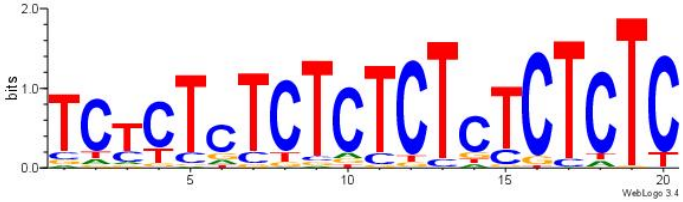

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162067

Alignment:
TAATTTTATGTGTCAACTTG
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

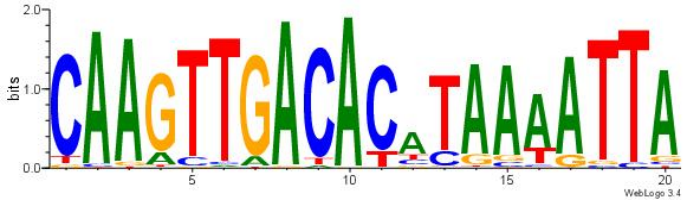

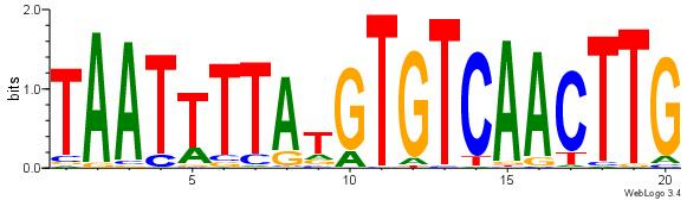

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163033

Alignment:

```
AGGTCCTTCAGGAGGTATTC
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

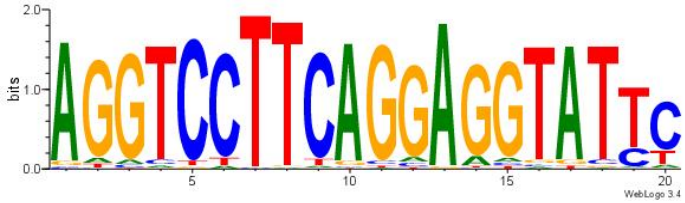

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

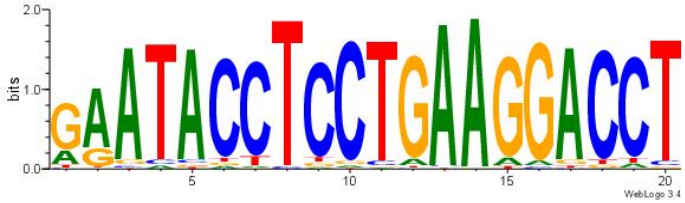

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163254

Alignment:
CATTCTGGGGTCTGGAGGAY
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

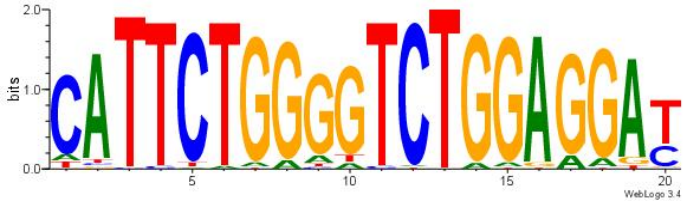

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

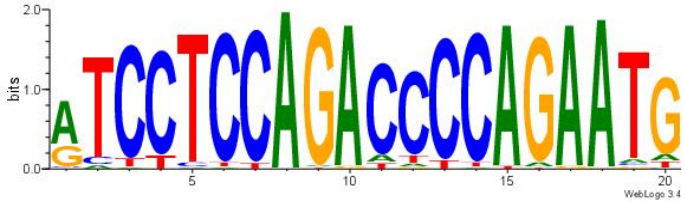

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.163919

Alignment:
AAGACCTTCCAGTGGGACAA
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

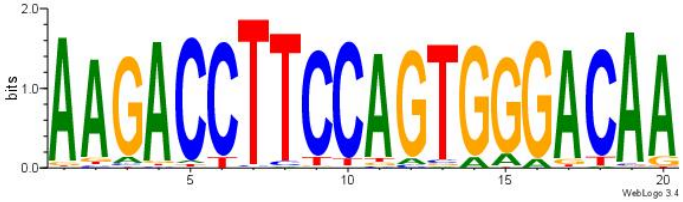

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

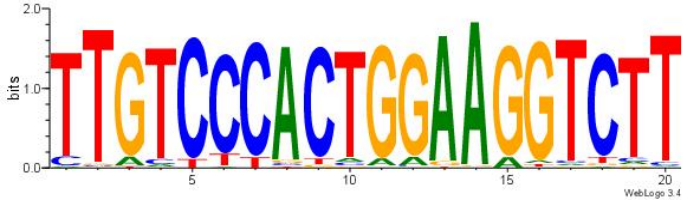

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163931

Alignment:
CTCCTGCCTCAGCCTCCCRA
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

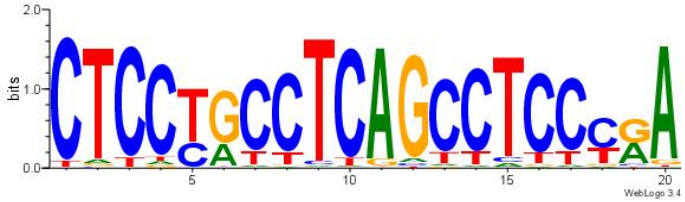

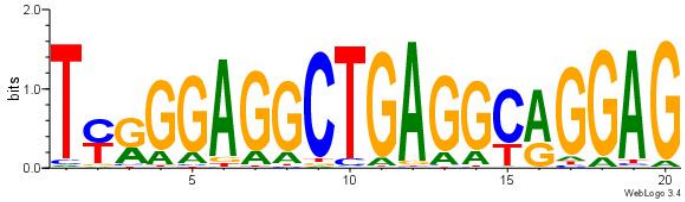

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.165635

Alignment:
ACCTGGAAAATCGGGTCACT
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

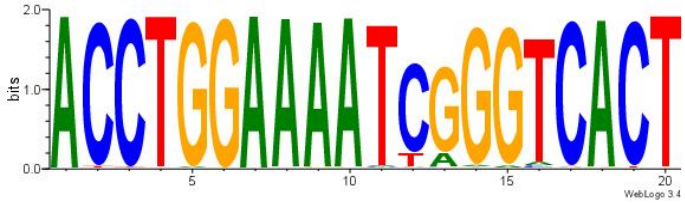

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

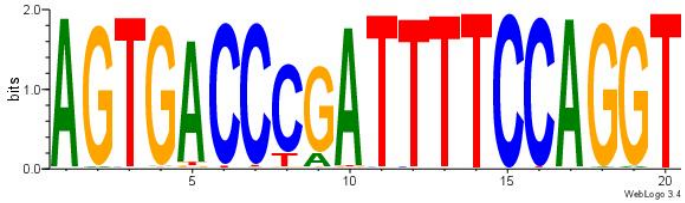

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166199

Alignment:
AGTAGGTGCTCARTAAATRB
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

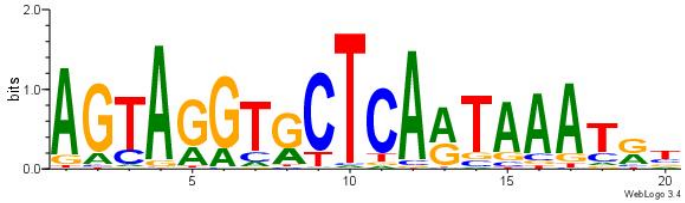

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

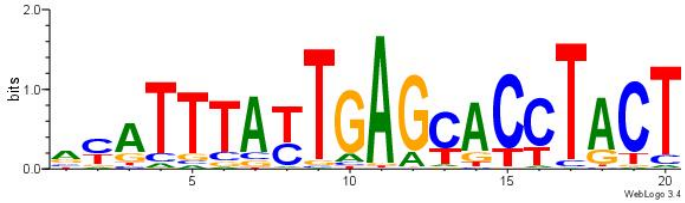

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.166599

Alignment:
AAGTCCAAGATCAAGGTGYY
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

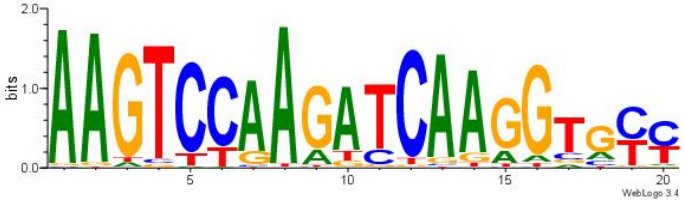

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

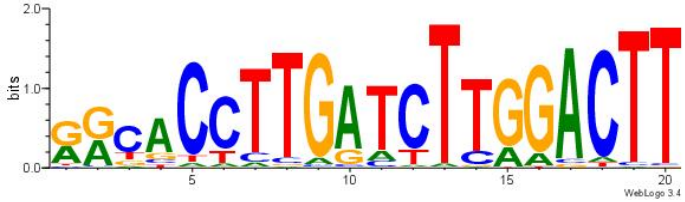

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16685

Alignment:
GGAGCCGGCTCCCTCAGCTT
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

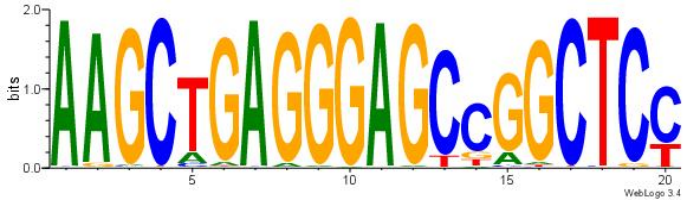

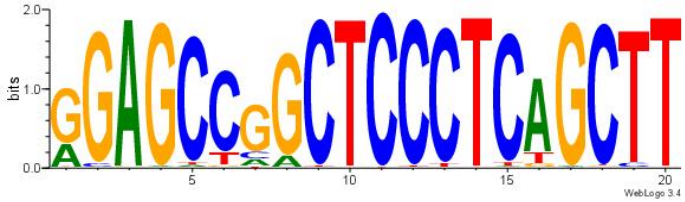

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167269

Alignment:

```
CCTGCCATTGCYSAGGCTTG
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

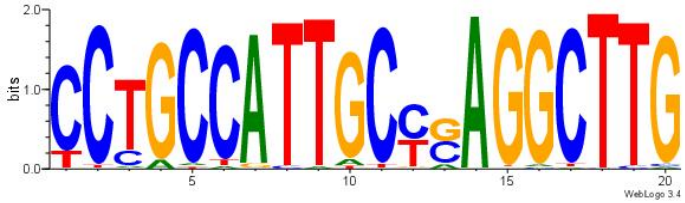

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

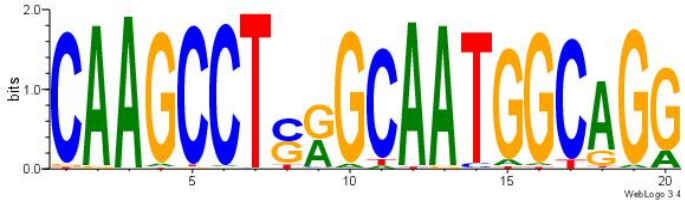

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167289

Alignment:
CCGCTGCACTGTGGGAGCCC
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

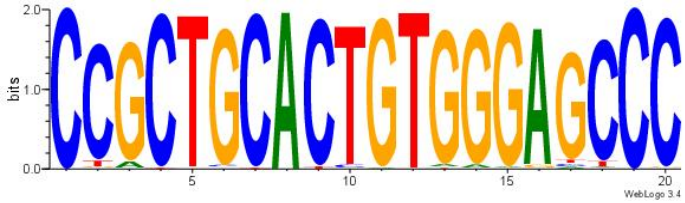

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

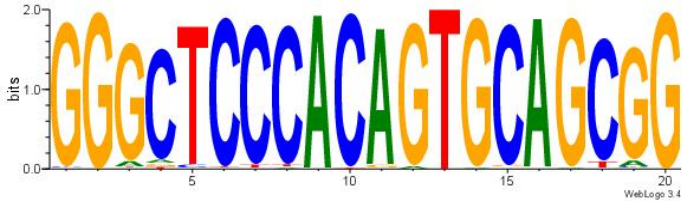

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.167443

Alignment:
CTCCAGKTMCATCCATGTTG
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

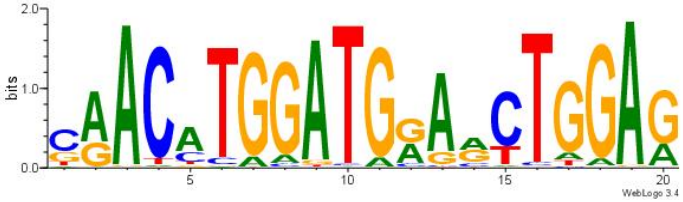

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

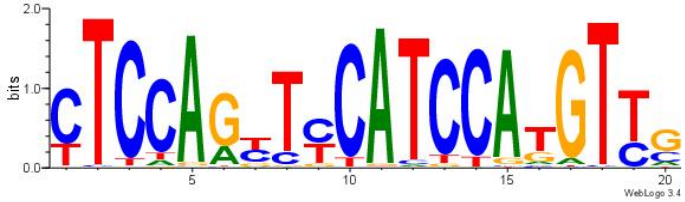

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.167955

Alignment:
CTAGACATAAAGGTTCTCCA
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

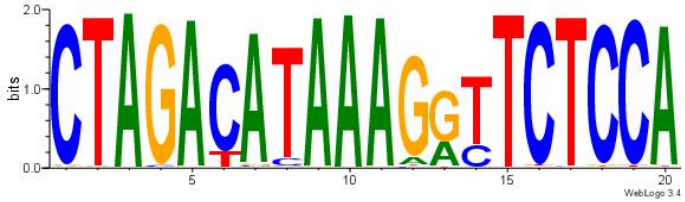

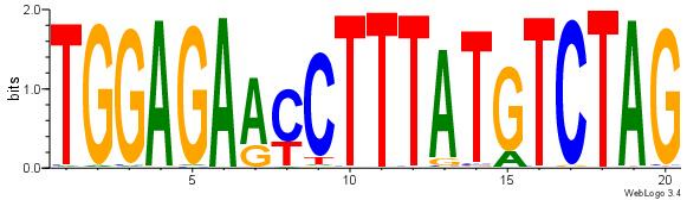

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168114

Alignment:

```
AGCTCCCAGCGTGAGCGACG
GCCTCTCCCTCCACACCTCC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

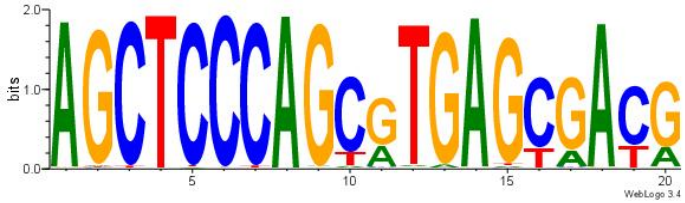

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

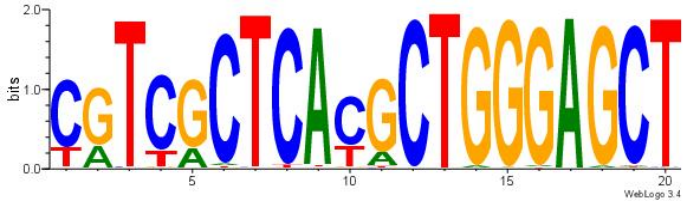

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168901

Alignment:
GCCKGGMKCMGTGGCTCAKG
GGAGGTGTGGAGGGAGAGGC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

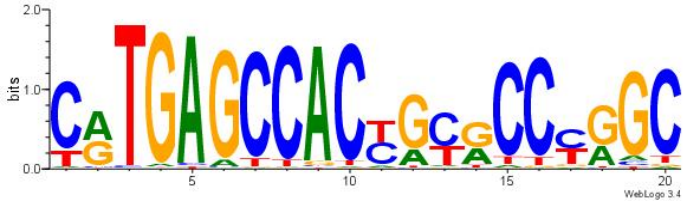

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

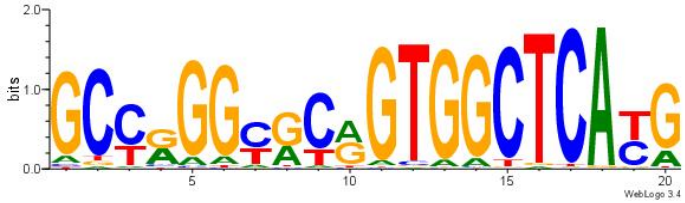

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.16928

Alignment:
ARCTCCTGKSCTCAAGKGAT
GCCTCTCCCTCCACACCTCC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

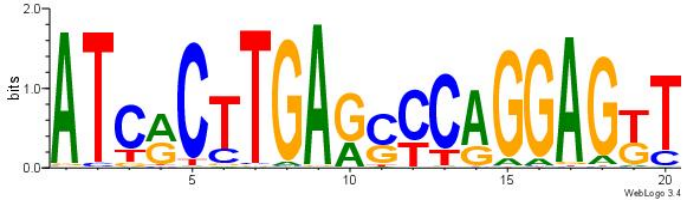

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

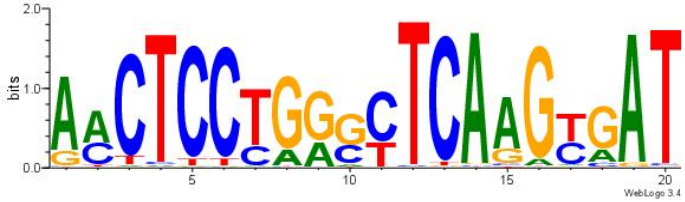

Dataset #: 1 Motif ID: 106 Motif name: Motif 106

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

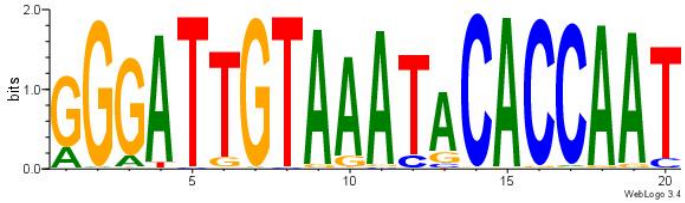

Best Matches for Motif ID 106 (Highest to Lowest)

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.112321

Alignment:

```
TAGATAATAGCTCCAGCTTT
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

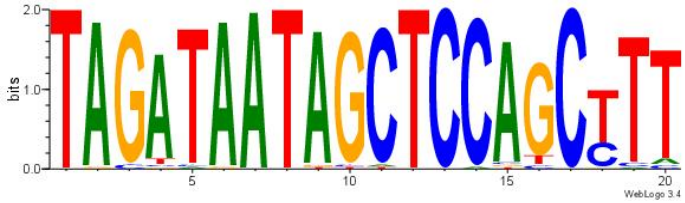

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

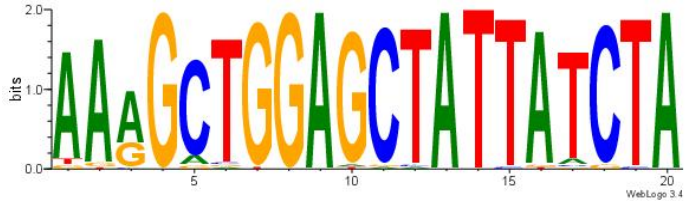

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123702

Alignment:

TWTACCTATGTAACAAACCT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

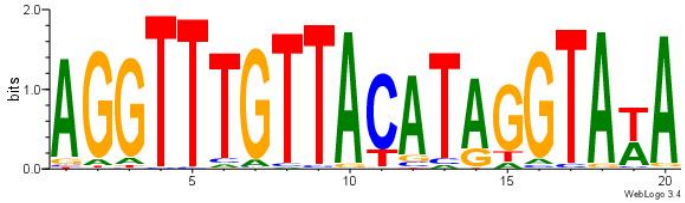

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

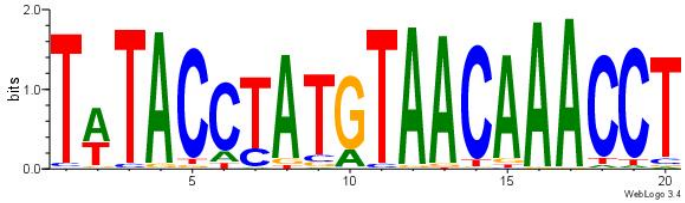

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124374

Alignment:
CTGGGTCCCCCAGCAGTGCC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

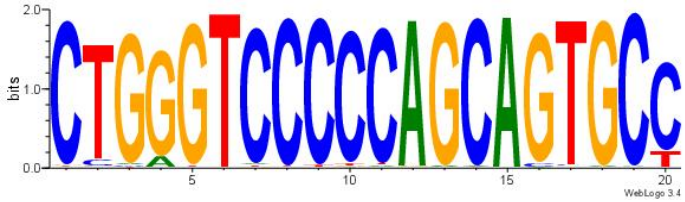

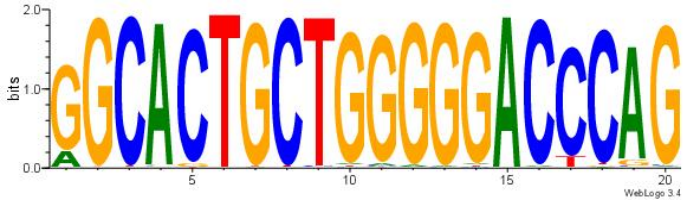

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128647

Alignment:

```
GGCATCACGGATCCTACCAA
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

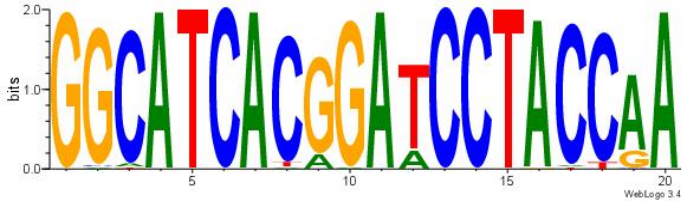

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

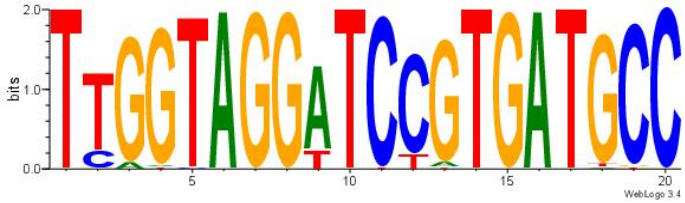

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134342

Alignment:

```
ATGGCTGAATAKTATTCCAT
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

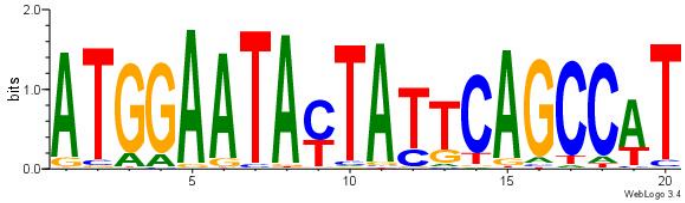

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

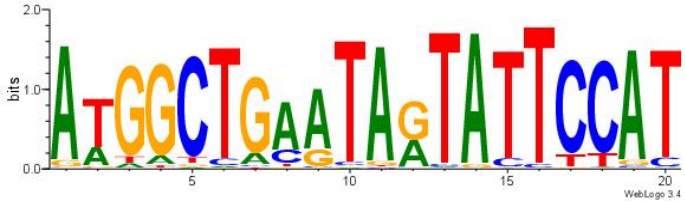

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134743

Alignment:
ATAGGAATGCTTGTGATTTT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

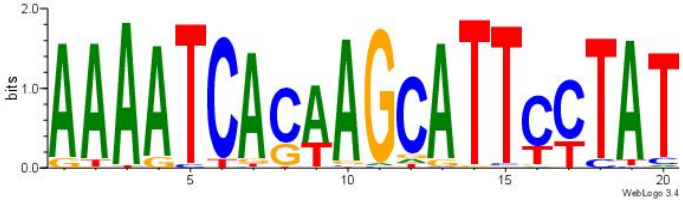

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

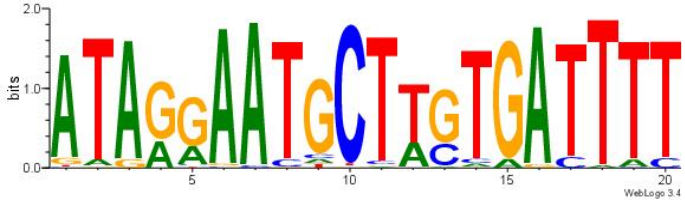

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134958

Alignment:
GTGGCCCTCTTCTCACAGCT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

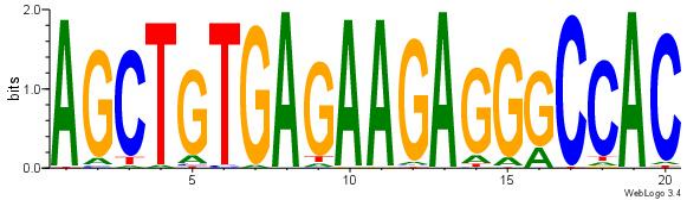

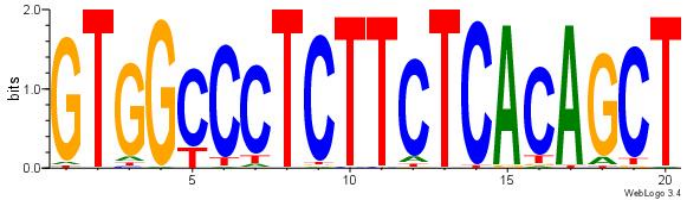

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135283

Alignment:
AWTKKTGGTTKCCAGKGGCT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

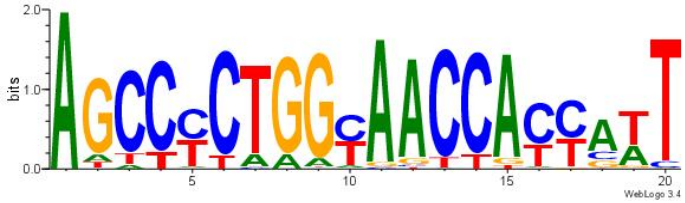

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

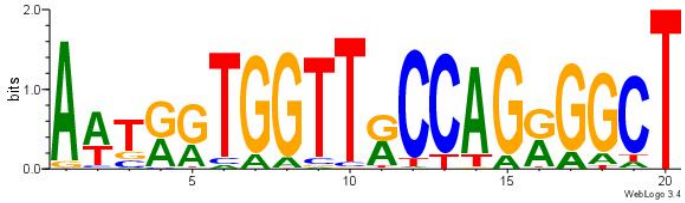

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135591

Alignment:

GCCAGTCACAAAARGACAMA

GGGATTGTAAATACACCAAT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

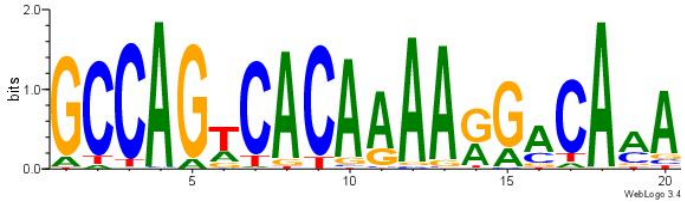

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

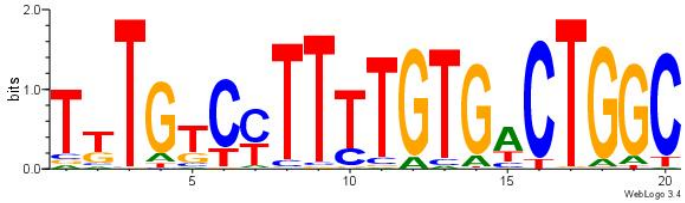

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136841

Alignment:
GAAAGGGAACTCCCTGACCC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

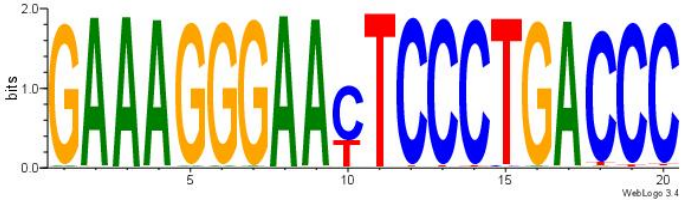

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

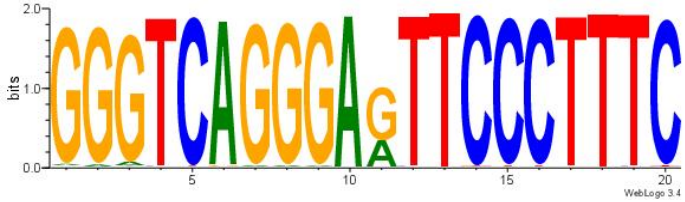

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.138073

Alignment:
CCCMKGGCACCCTCAGTCCT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

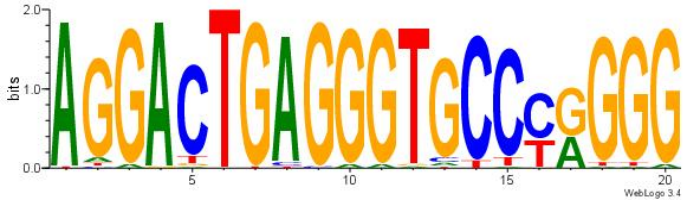

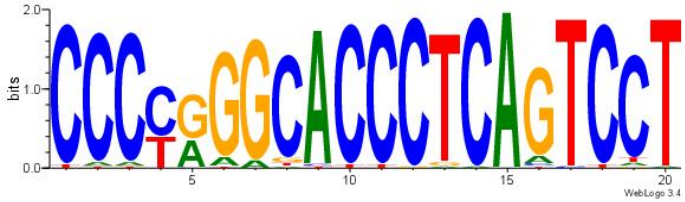

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138675

Alignment:

```
CTCAGTGTTAATCTCCTGTC
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

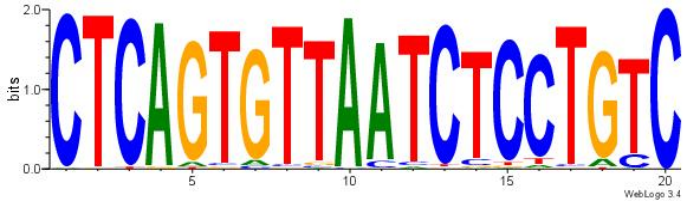

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

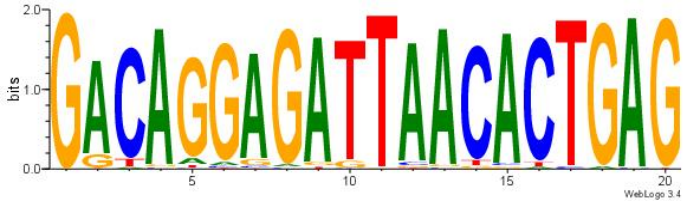

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139396

Alignment:

```
GCAAAKGACATGATYTCATT
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

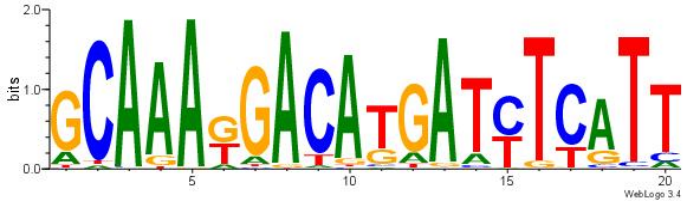

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

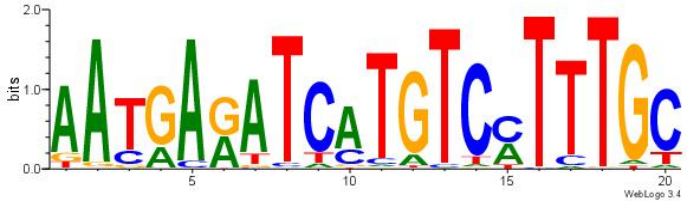

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14001

Alignment:
VMATTTAKTGAGCACCTACT
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

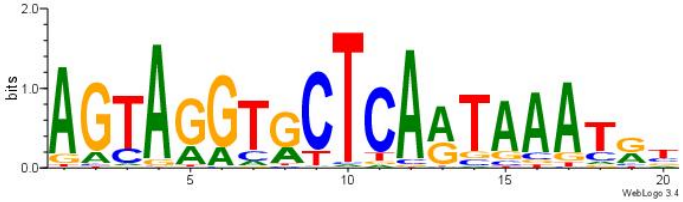

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

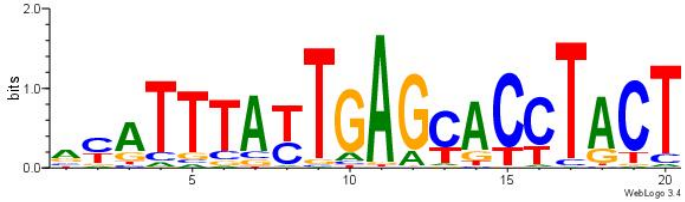

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140631

Alignment:
TTTYTWTTTTTTYTWGAGAC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

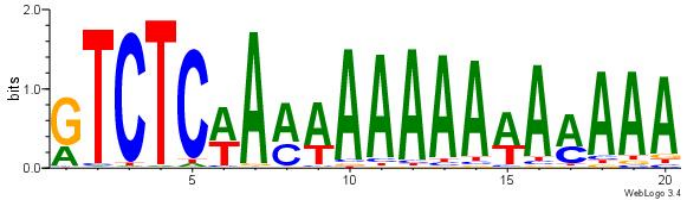

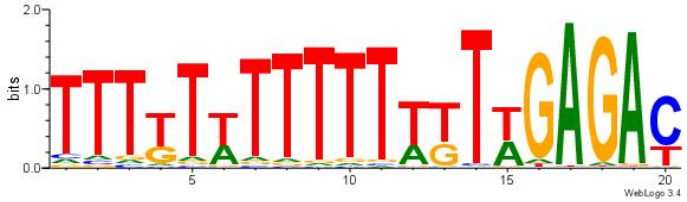

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14283

Alignment:
GGGAGGTGTCTCCCAGTCAG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

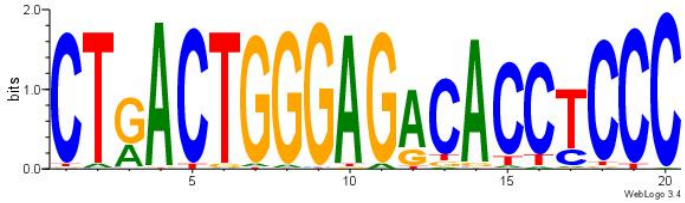

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

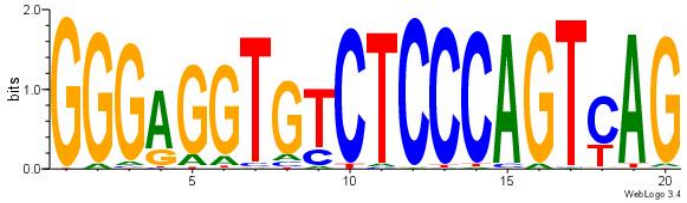

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143388

Alignment:

```
ATGTAACCAAAYACCACCTG
ATTGGTGTATTTACAATCCC
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

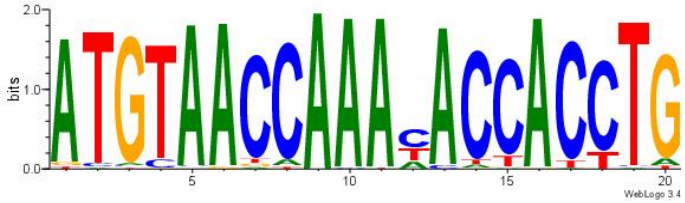

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

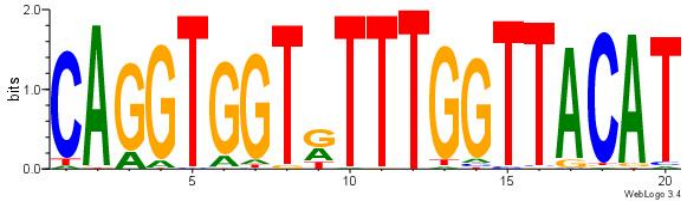

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.143616

Alignment:
AAGGAACAAACTCCRGACAC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

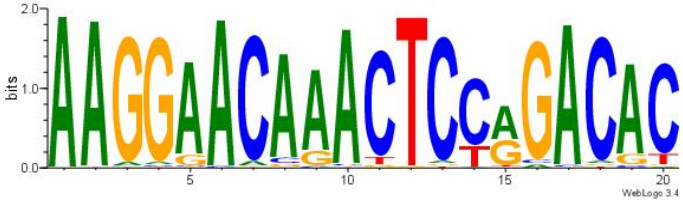

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

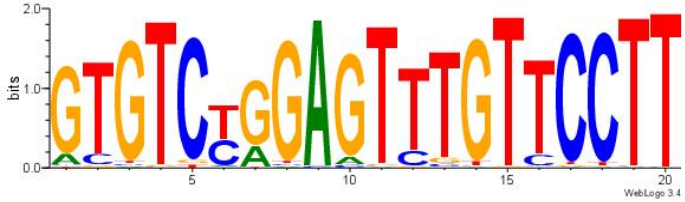

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143725

Alignment:
GTGCCAGGCACTGTKCTARG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

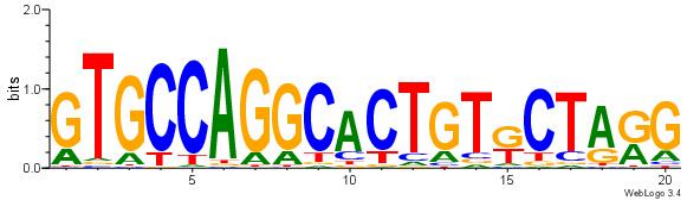

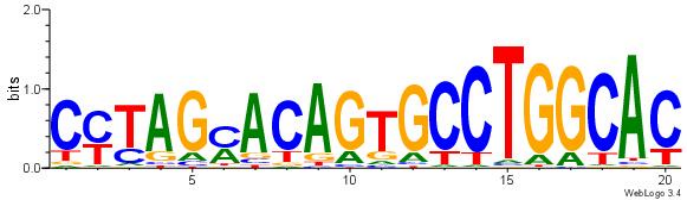

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143889

Alignment:
CTGGGCRACAGAGYRAGACY
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

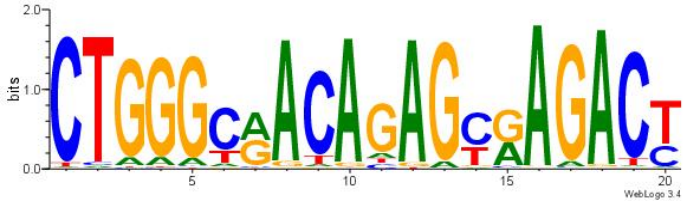

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

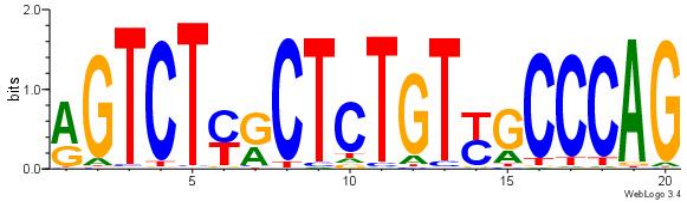

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144091

Alignment:

```
AAAATGTGGTAYATAYAYAC
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

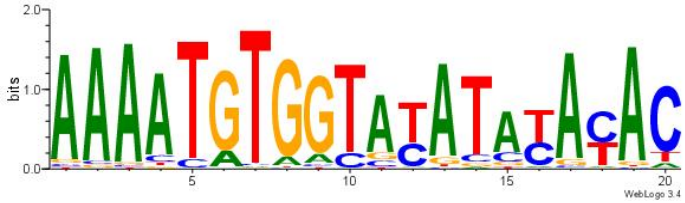

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

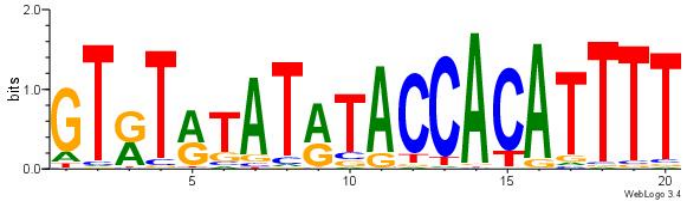

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144155

Alignment:
GCCTCTCCCTCCACACCTCC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

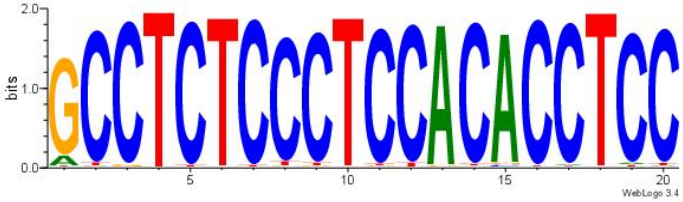

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

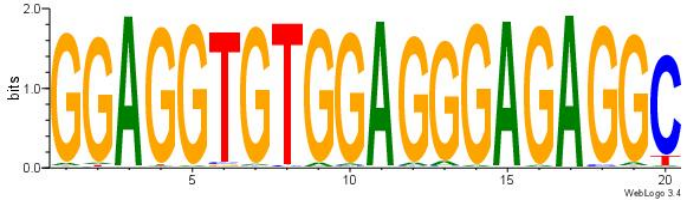

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145062

Alignment:
CTAGACATAAAGGTTCTCCA
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

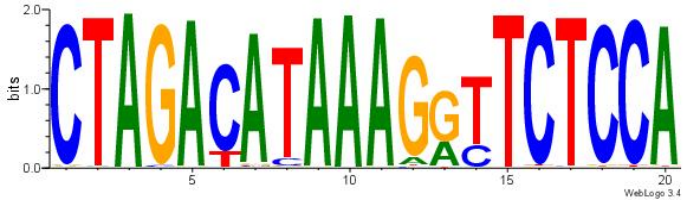

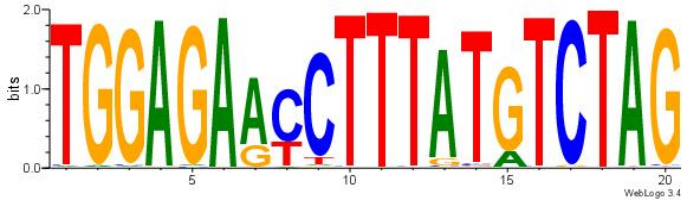

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145493

Alignment:

```
AAAAGTCCACAGTCCAAAGT
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

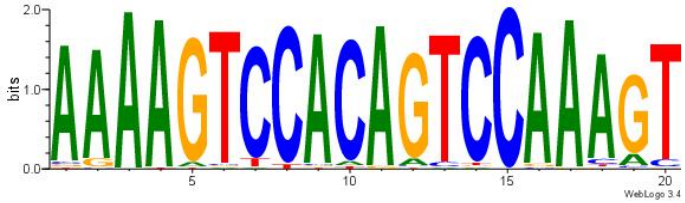

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

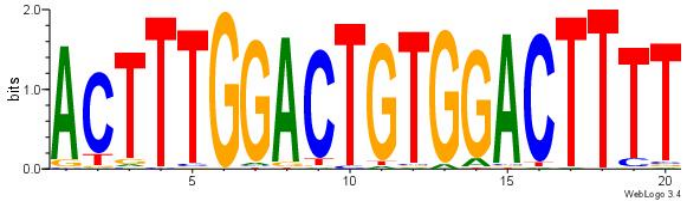

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147222

Alignment:

```
CTTGCCCAAGGTCACACAGC
ATTGGTGTATTTACAATCCC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

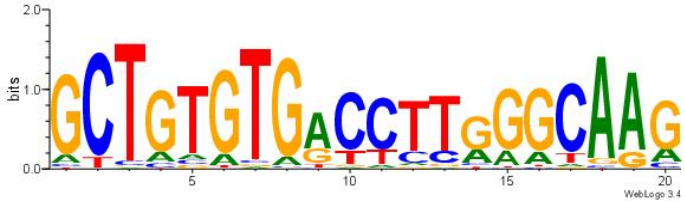

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

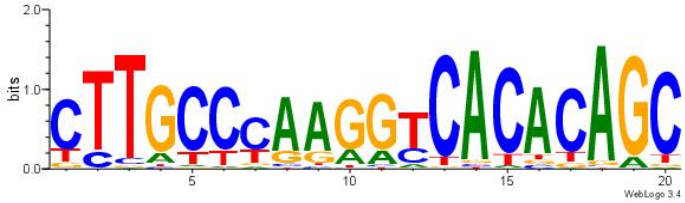

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147366

Alignment:
CTGGCCCTCAATGGTTAAAC
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

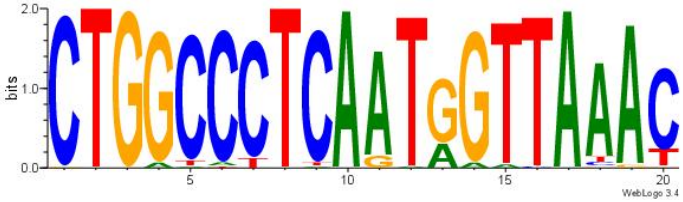

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

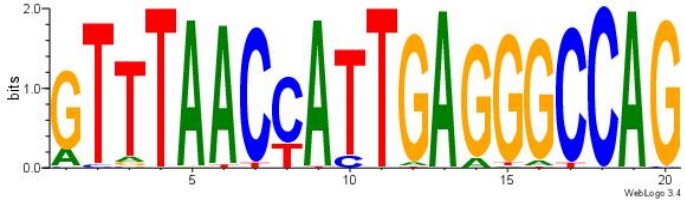

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147421

Alignment:
AAGTTCTKGGKTACATGTGC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

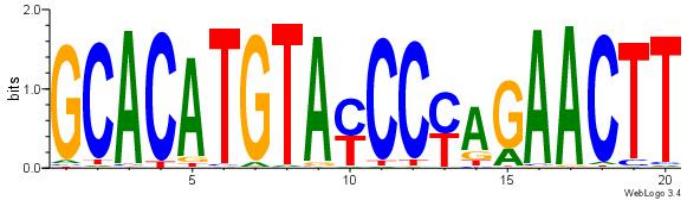

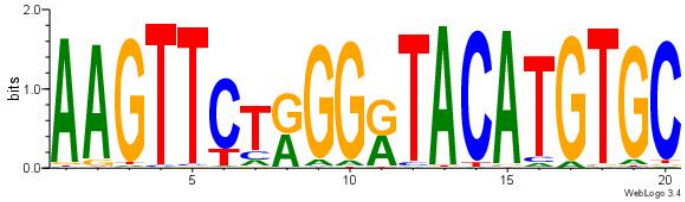

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148616

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GGGATTGTAAATACACCAAT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

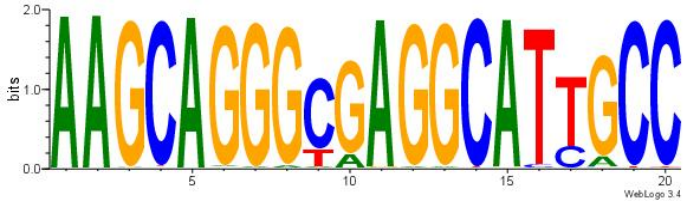

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

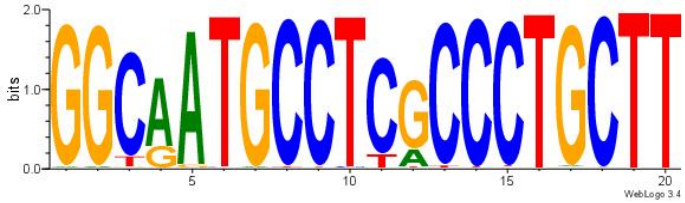

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149736

Alignment:

CAACATGGATGRARCTGGAG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

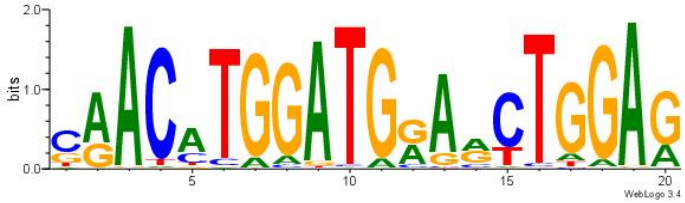

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

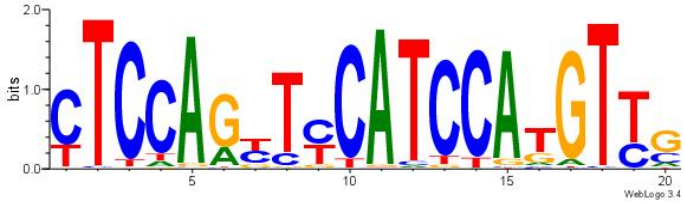

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150388

Alignment:
GTTATTAATTGGCCTAATTT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

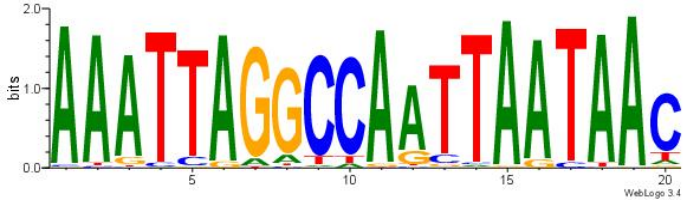

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15222

Alignment:
AGAGCCAAATCATGARTGAA
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

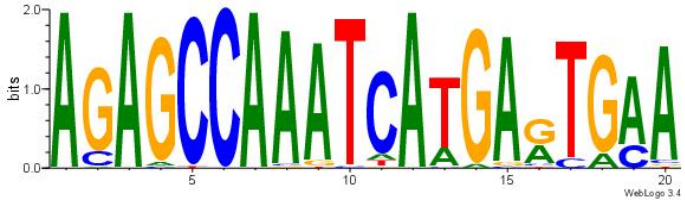

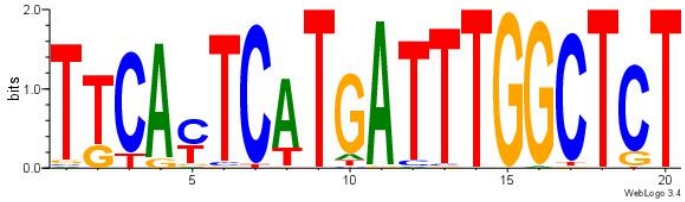

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15232

Alignment:

```
CACCAGGAGATTATATCCCR
ATTGGTGTATTTACAATCCC
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

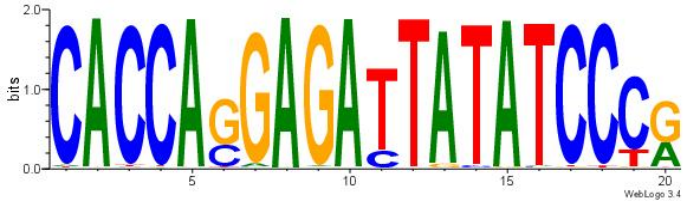

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

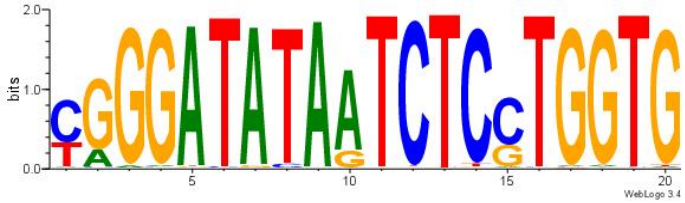

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152767

Alignment:
TCKMGCCACTGCACTCCAGC
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

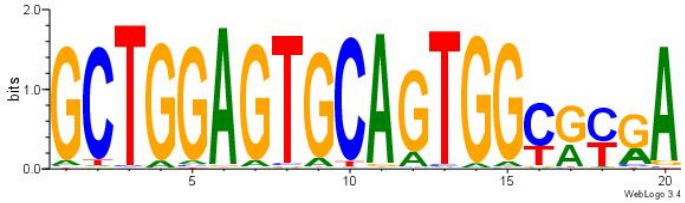

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

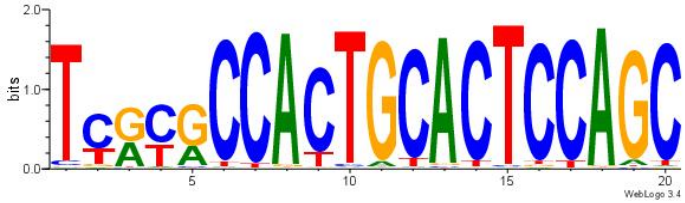

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.15405

Alignment:
ATGTGGAGGTGGAAGACAGT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

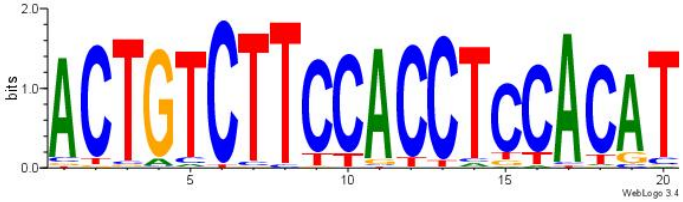

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

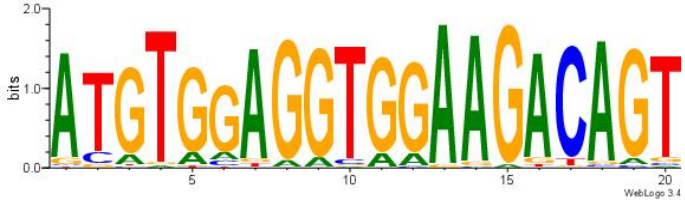

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156378

Alignment:
ATGGACAYTTRGGTTGHTTC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

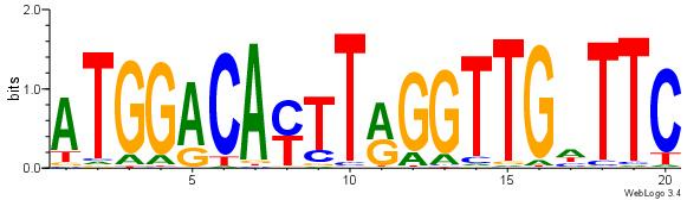

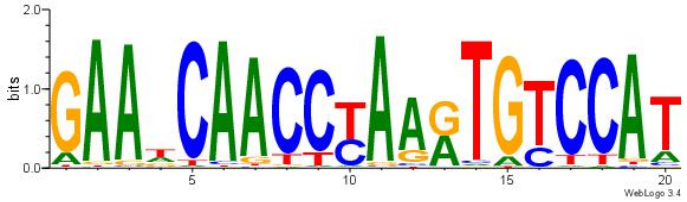

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157292

Alignment:
HAGTGGKATTGCTGGATCAT
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

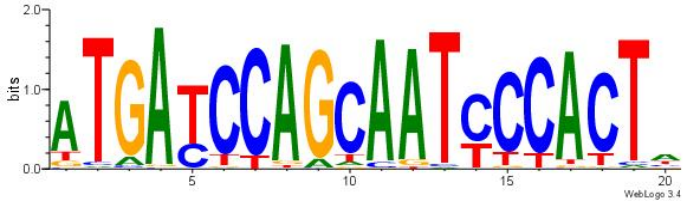

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

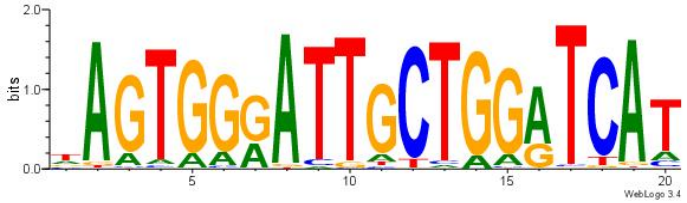

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157298

Alignment:

GTAACACTCACCGCGARGGT
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

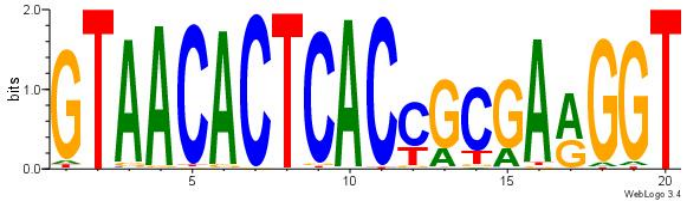

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

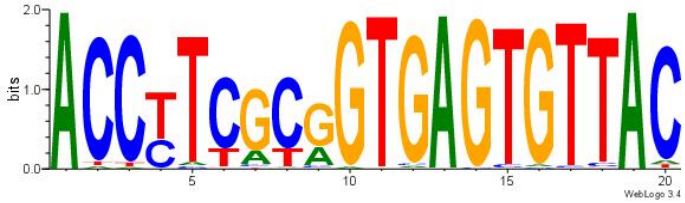

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157429

Alignment:
CGAGCCTCCCCGAYGAGCGC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

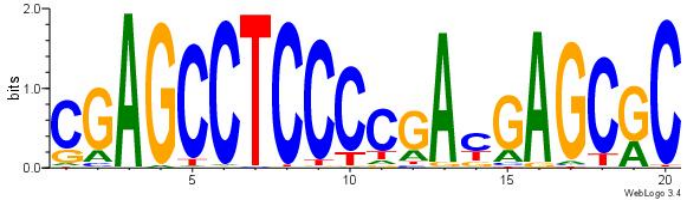

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

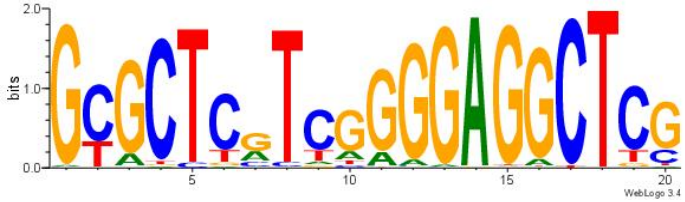

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157536

Alignment:
GGATTTMKGACTTGCATGGG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

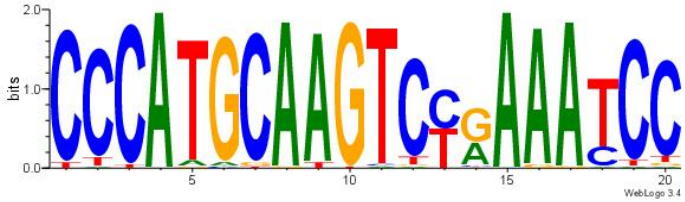

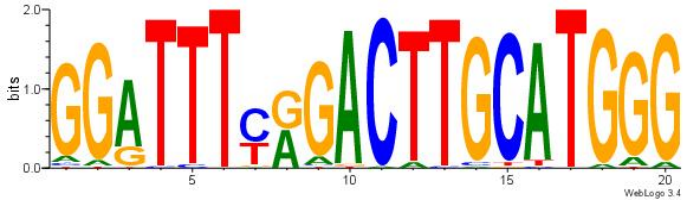

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157914

Alignment:

```
TCTGGAGTGGACCTCCAGCA
ATTGGTGTATTTACAATCCC
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

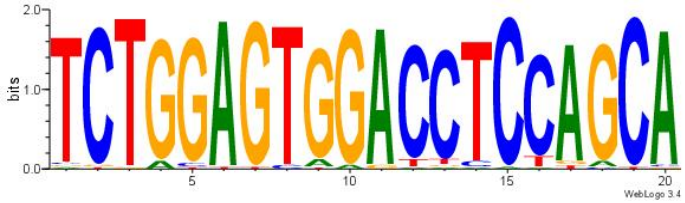

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

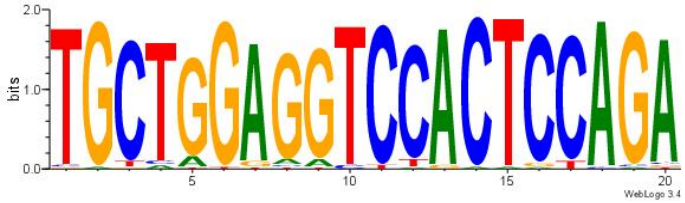

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158009

Alignment:

```
AAGTCCAAGATCAAGGTGYY
ATTGGTGTATTTACAATCCC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

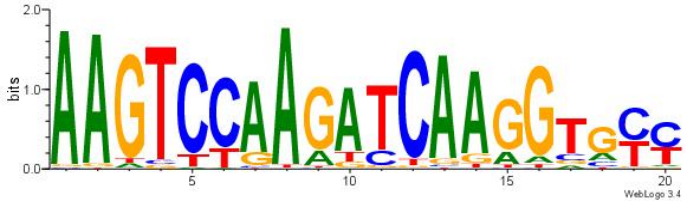

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

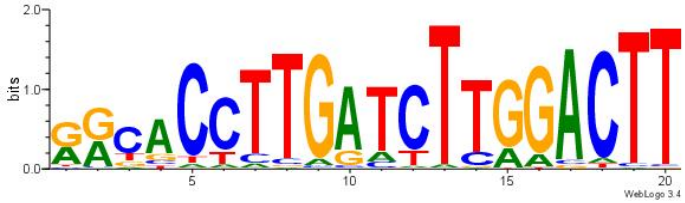

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159228

Alignment:
GGGCTCCCACAGTGCAGCGG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

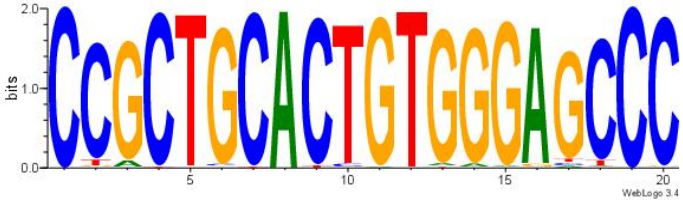

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

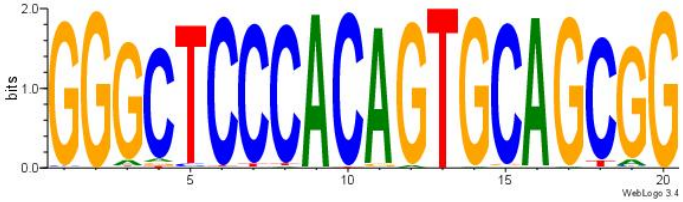

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159295

Alignment:
AGAAATCGAGCRCAGCGCCG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

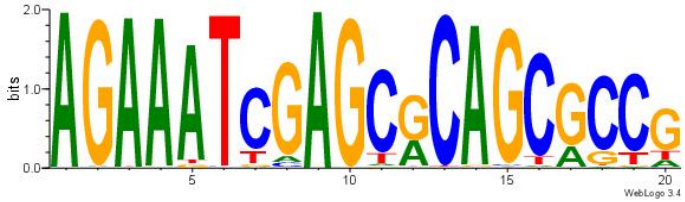

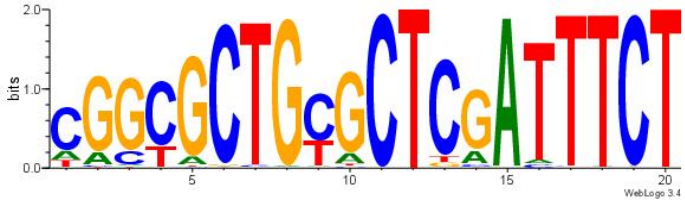

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160688

Alignment:
TCTCTCTCTCTCTCTCTCTC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

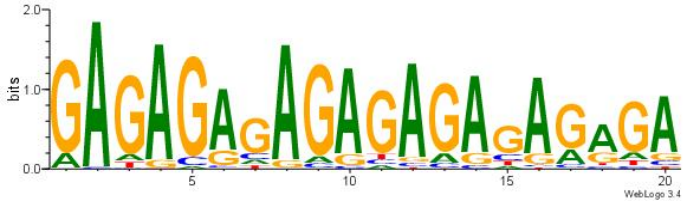

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

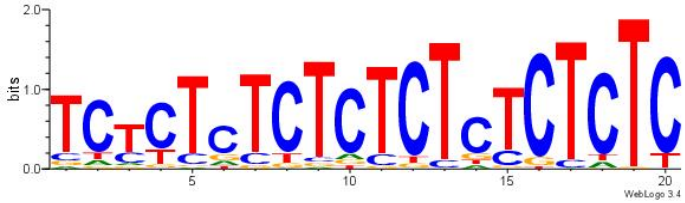

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161017

Alignment:
ACACATCACAAAGCAGTTTC
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

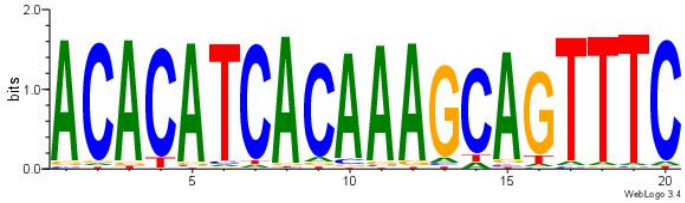

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

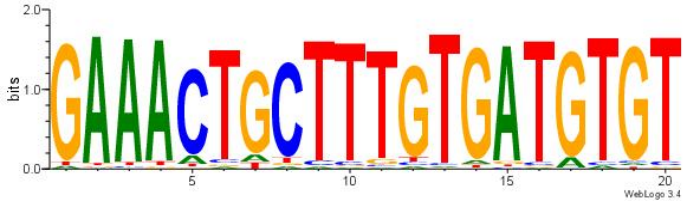

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161762

Alignment:
GCTGGCCCGCAAGCGCCGCG
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

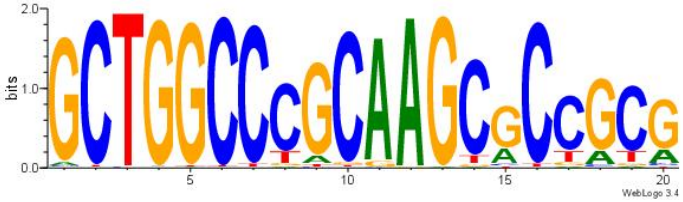

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

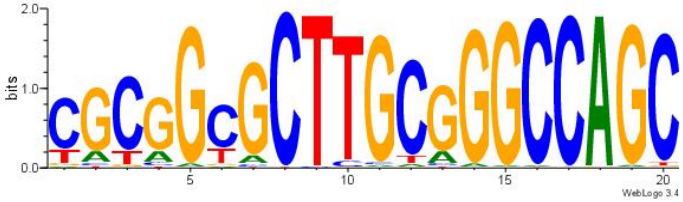

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162196

Alignment:
CATTCTGGGGTCTGGAGGAY
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

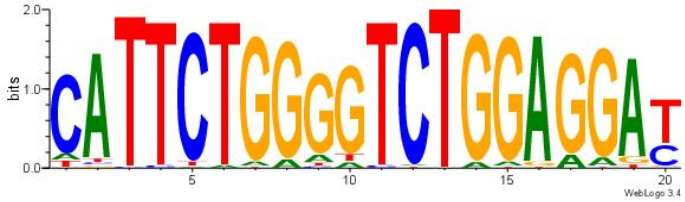

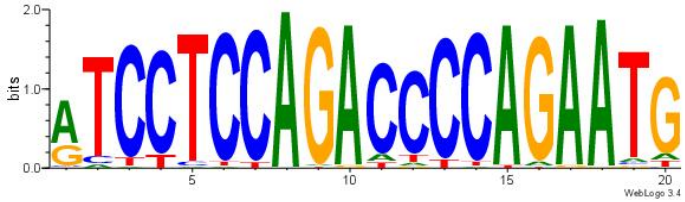

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163386

Alignment:
TAATTTTATGTGTCAACTTG
ATTGGTGTATTTACAATCCC

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

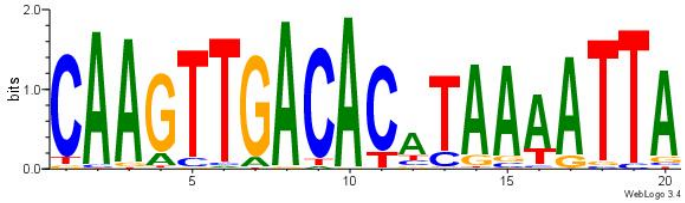

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

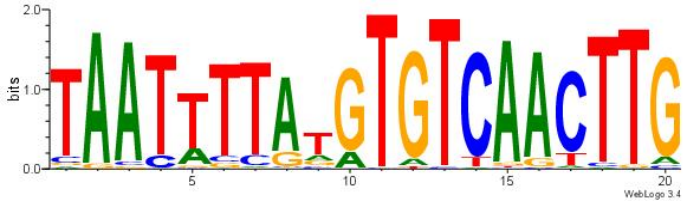

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163656

Alignment:
GCCKGGMKCMGTGGCTCAKG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

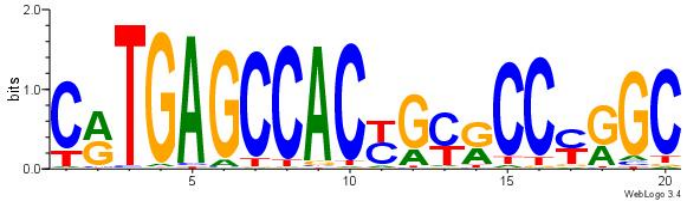

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

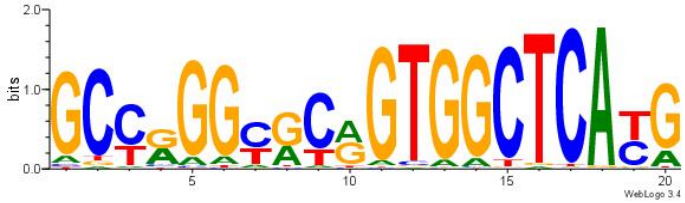

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.165234

Alignment:
CAGCTACTCKTATACCCTTG
GGGATTGTAAATACACCAAT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

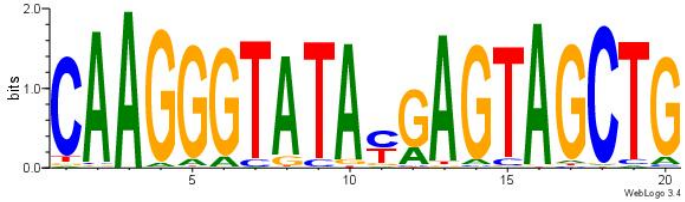

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

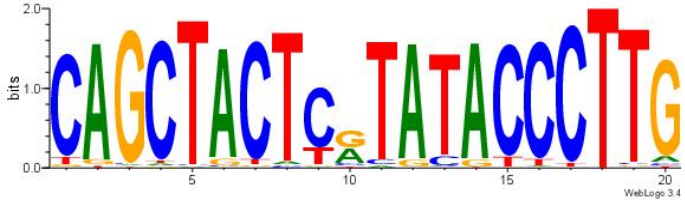

Dataset #: 1 Motif ID: 107 Motif name: Motif 107

Original motif Consensus sequence: GAGCCACYGCRCC

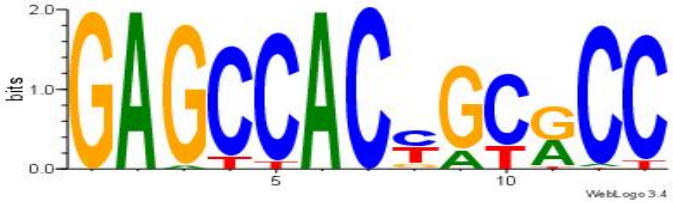

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Best Matches for Motif ID 107 (Highest to Lowest)

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.00724402

Alignment:

```
CRTGAGCCACYGYRCCYGGC
---GAGCCACYGCRCC----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

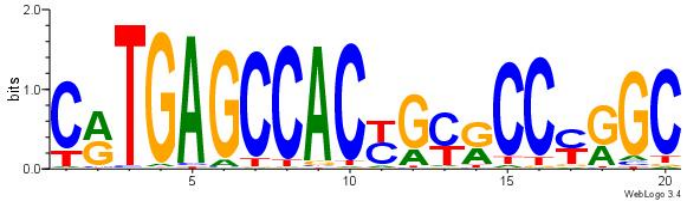

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

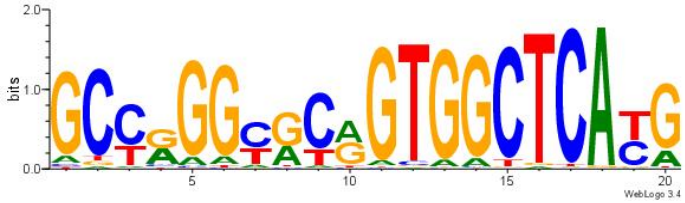

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0668268

Alignment:

```
AGGASCSTCYSWGCCMGGY
--GAGCCACYGCRCC----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

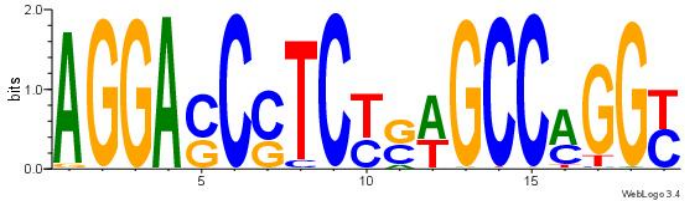

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

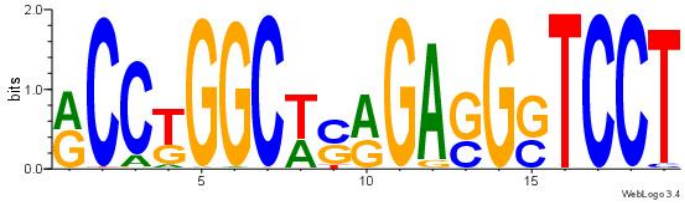

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.070263

Alignment:

```
AGGAGCCCCTCHGCCCR
--GAGCCACYGCRCC--
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

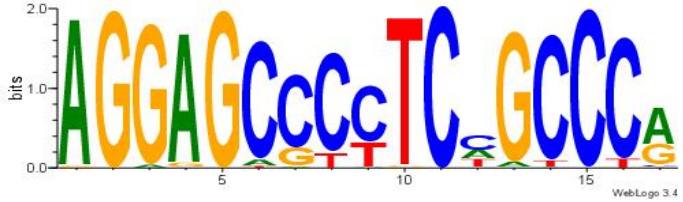

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

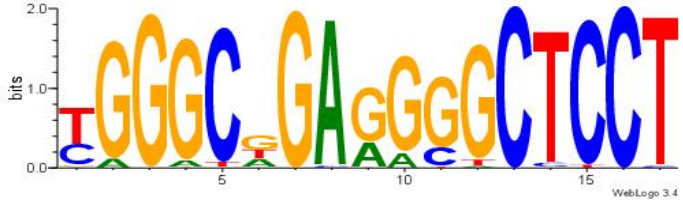

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0734949

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
--GGMGCKGTGGCTC-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

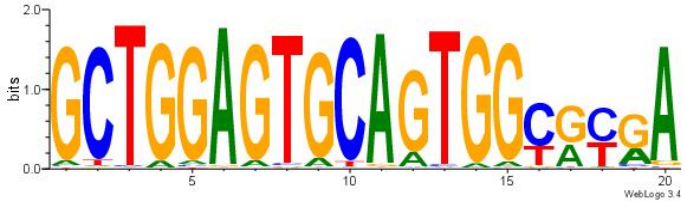

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

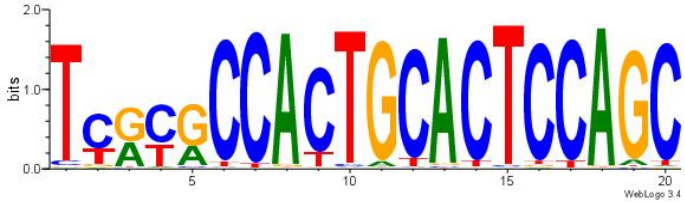

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 13
Similarity score: 0.0783677

Alignment:
GCGCTCKTCGGGGAGGCTCG
------GGMGCKGTGGCTC-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

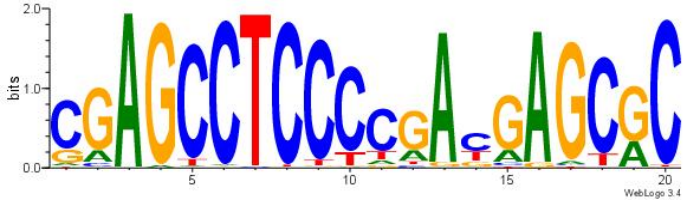

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

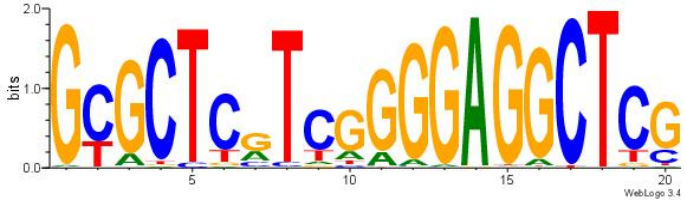

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.0817768

Alignment:
AGAGCTCTGGCTGGCATCT
GGMGCKGTGGCTC------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

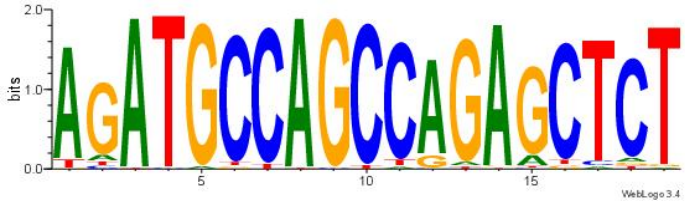

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

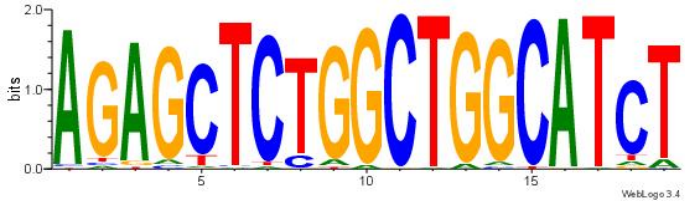

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0823128

Alignment:

```
CAGCCAGATCRSCC
GAGCCACYGCRCC-
```

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

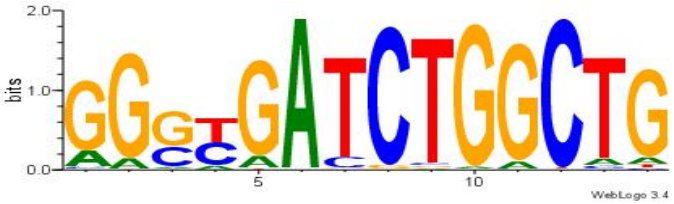

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0844311

Alignment:

```
GCTGGCCCKGGTGCTAAGC
---GGMGCKGTGGCTC---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

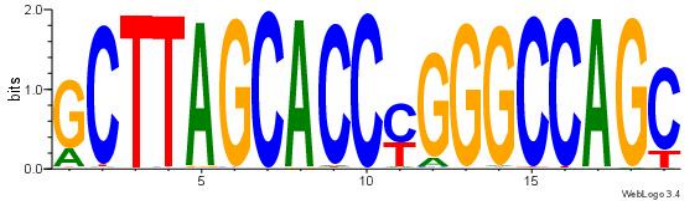

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

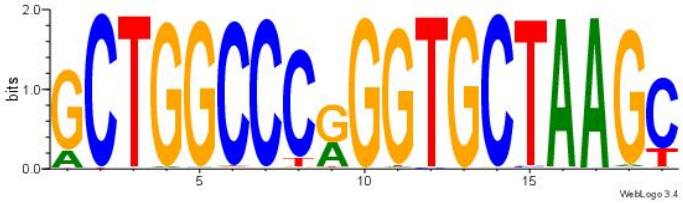

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.0844966

Alignment:
GCCAGGCAGAGRGKCTCCT
--GGMGCKGTGGCTC----

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

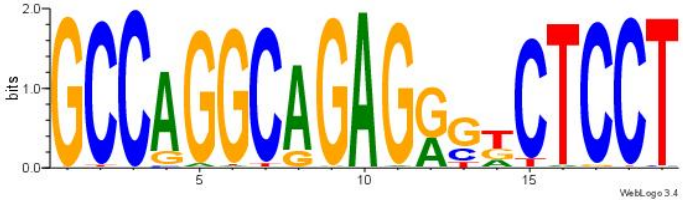

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

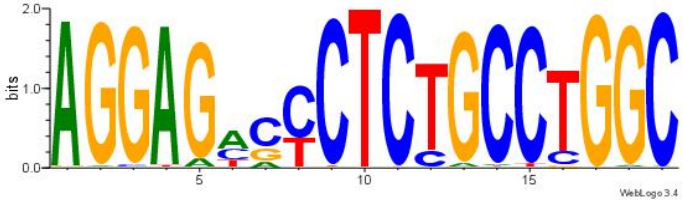

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0882625

Alignment:
HAGTGGKATTGCTGGATCAT
-----GGMGCKGTGGCTC--

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

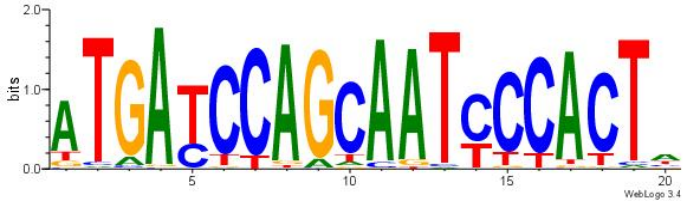

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

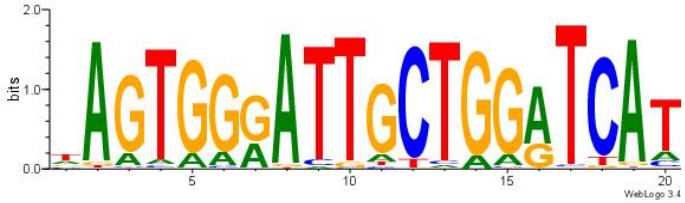

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0910238

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
---GGMGCKGTGGCTC----
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

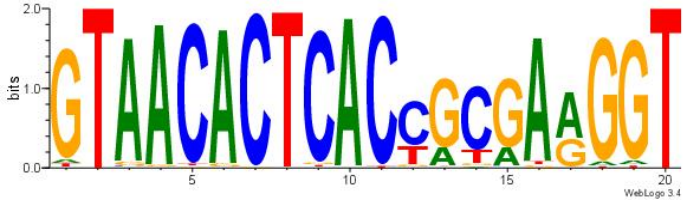

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

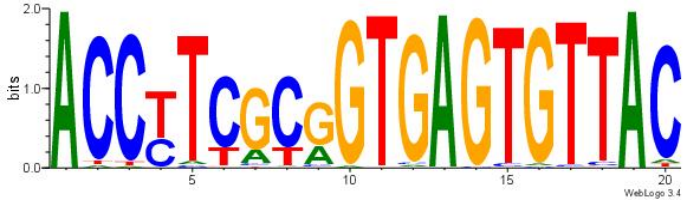

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0910671

Alignment:

```
AGGAGCGCCTCTKCCCGGC
--GAGCCACYGCRCC----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

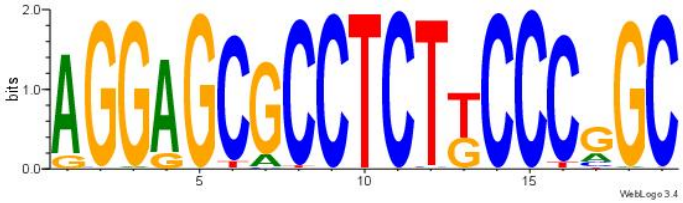

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

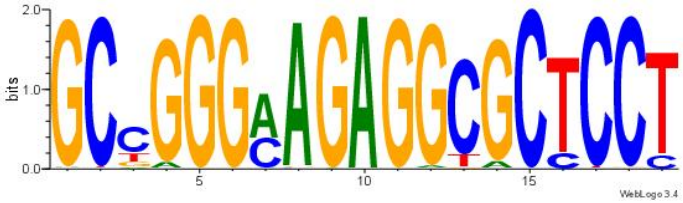

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0912827

Alignment:
MGTCTMKCTCTGTKGCCCAG
-----GGMGCKGTGGCTC--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

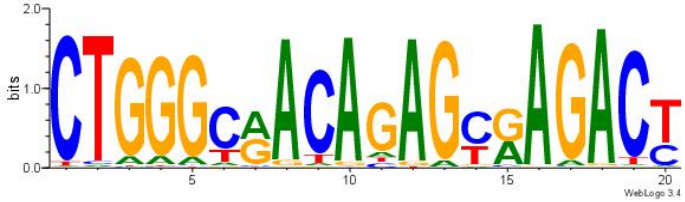

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

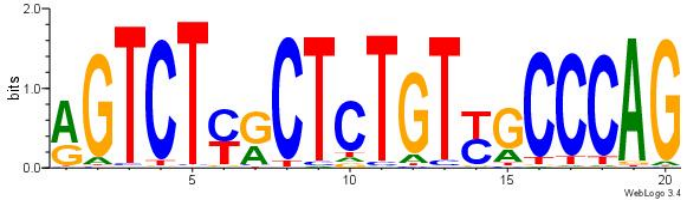

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0933447

Alignment:
GGATCCACTGGGTGAAGCCA
-GAGCCACYGCRCC------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

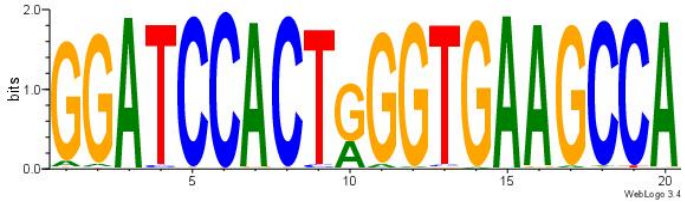

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

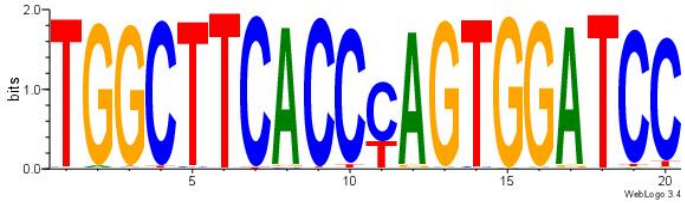

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0934961

Alignment:

```
GTGCCAGGCACTGTKCTARG
----GAGCCACYGCRCC---
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

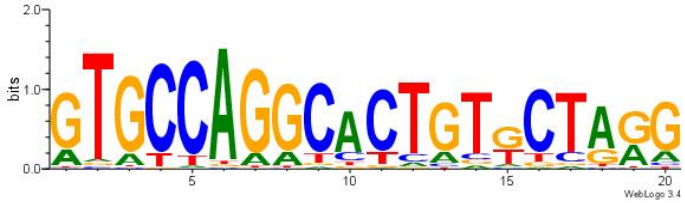

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

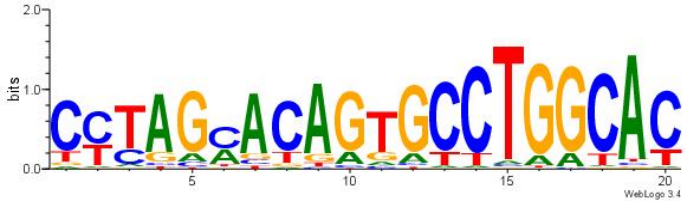

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.095929

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
-GGMGCKGTGGCTC------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

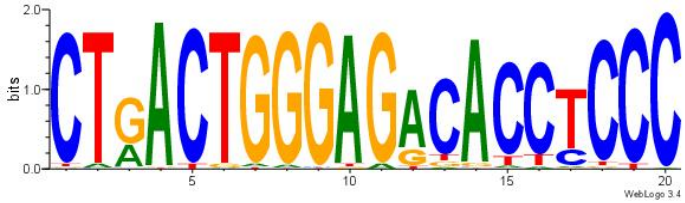

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

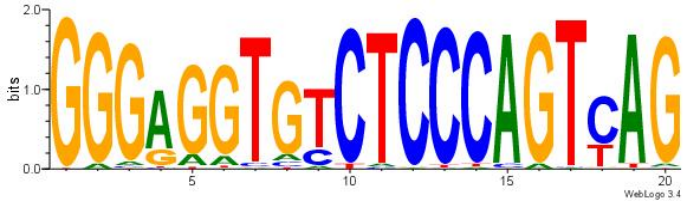

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 13
Similarity score: 0.0974938

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGMGCKGTGGCTC-------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

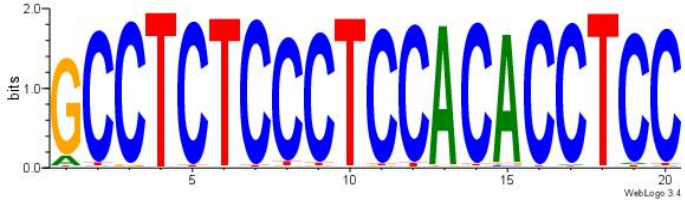

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

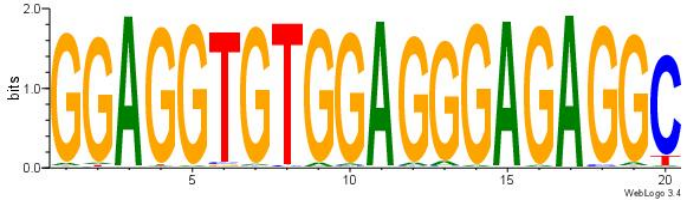

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0984954

Alignment:
TTGGTAGGATCCGTGATGCC
------GGMGCKGTGGCTC-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

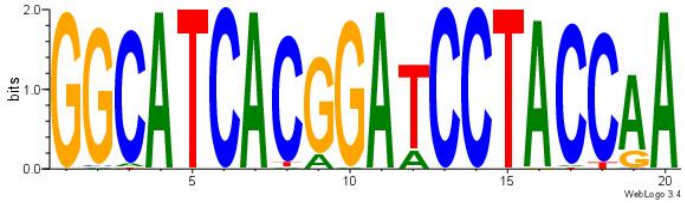

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

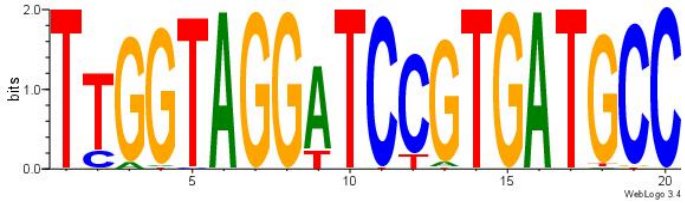

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0991324

Alignment:

```
GGGGGAGACATCACACR
----GAGCCACYGCRCC
```

Original motif Consensus sequence: GGGGGAGACATCACACR

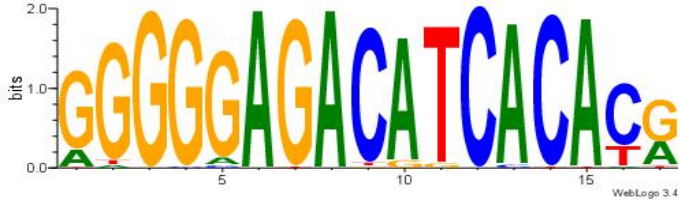

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

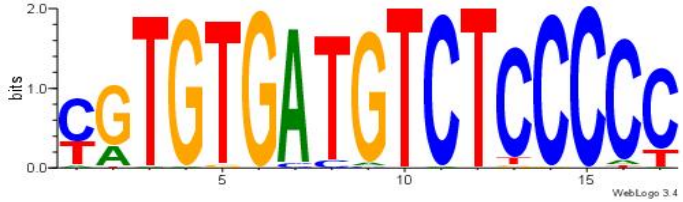

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.101559

Alignment:

```
ACTCAGCCCRCCTGCACCC
-----GAGCCACYGCRCC-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

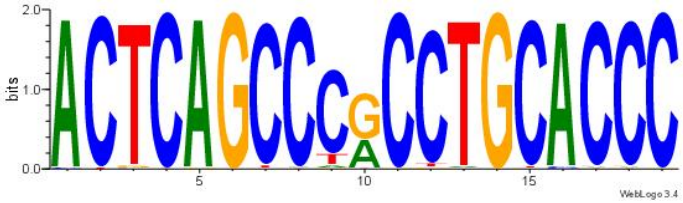

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

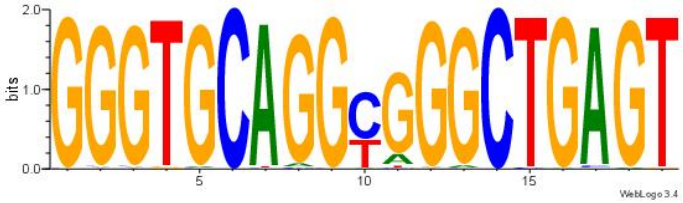

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 13
Similarity score: 0.101911

Alignment:
TTCAMTCATGATTTGGCTCT
------GGMGCKGTGGCTC-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

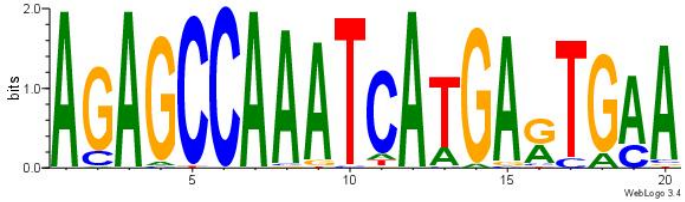

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

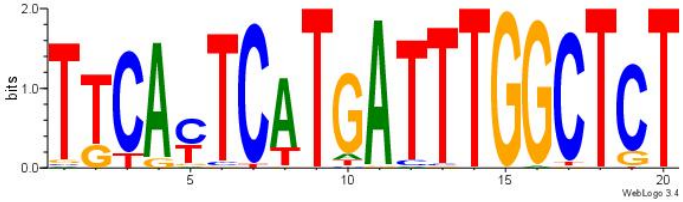

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.102009

Alignment:
GGCTGCGGAGGGTGTA
--GGMGCKGTGGCTC-

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

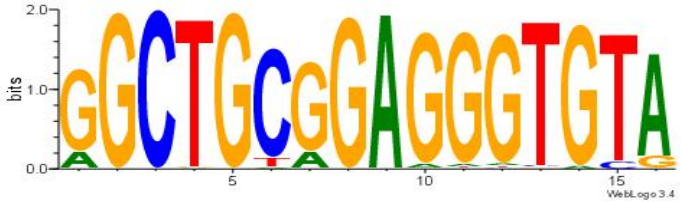

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

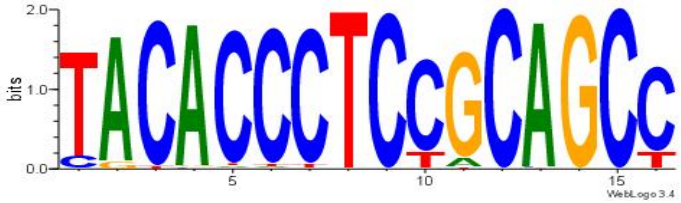

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.102764

Alignment:

```
HGCTCCTGTGSKCCC
-GAGCCACYGCRCC-
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

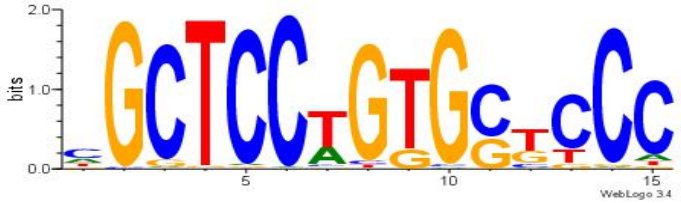

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10283

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-------GGMGCKGTGGCTC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

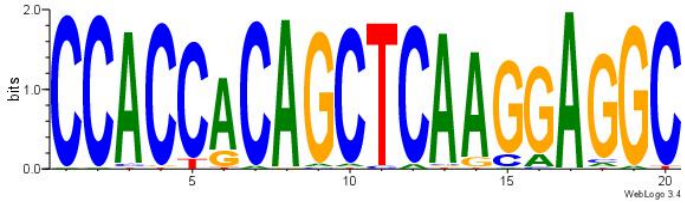

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

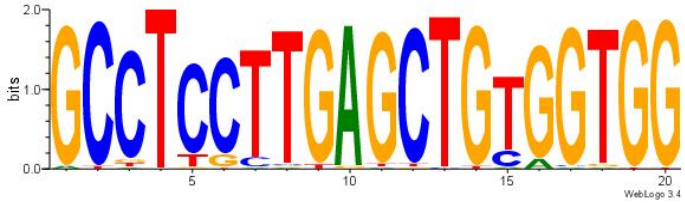

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 13
Similarity score: 0.10288

Alignment:
GGAGCCGGCTCCCTCAGCTT
------GAGCCACYGCRCC-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

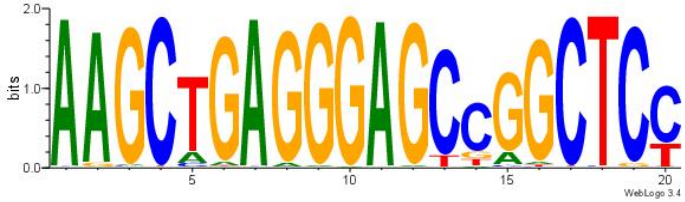

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

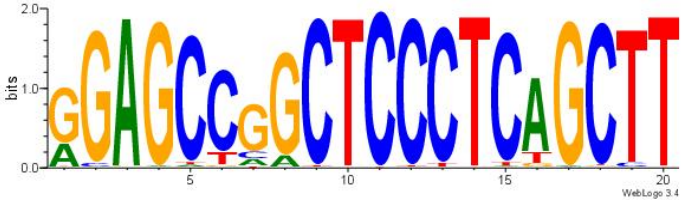

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.103179

Alignment:
GACATGAGCTGGCGCTTG
----GGMGCKGTGGCTC-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

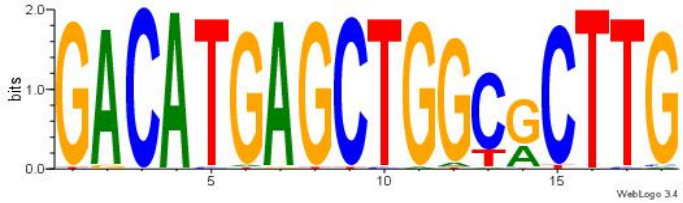

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

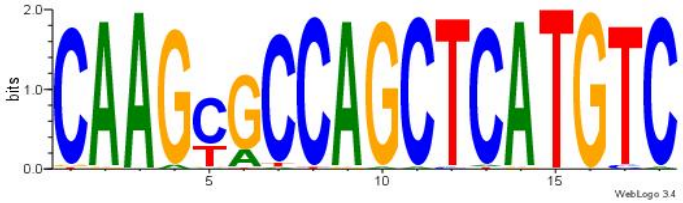

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.103457

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
----GAGCCACYGCRCC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

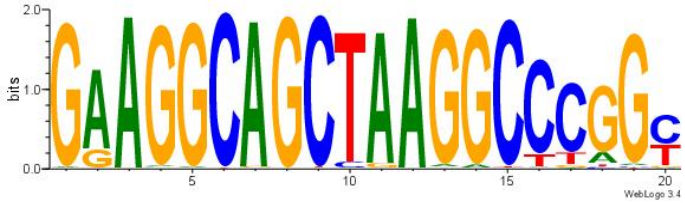

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

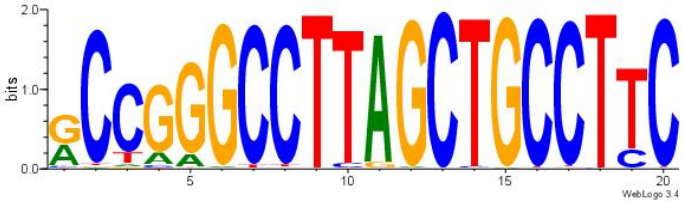

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.104515

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---GAGCCACYGCRCC----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

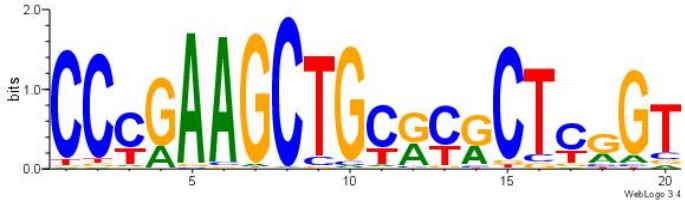

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

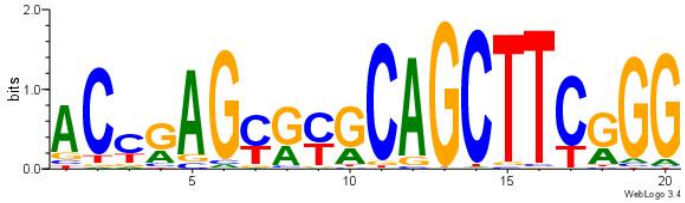

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.104629

Alignment:
CTTCGCTGACTCTCTTT
-GGMGCKGTGGCTC---

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

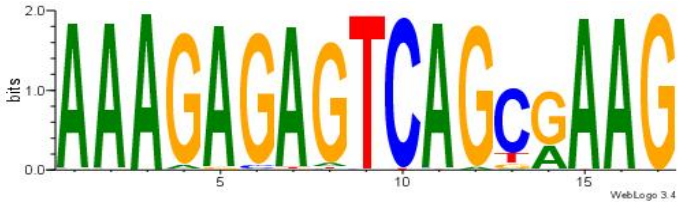

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

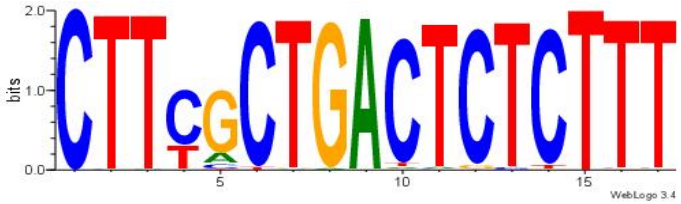

Dataset #: 1
Motif ID: 341
Motif name: Motif 341
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.10669

Alignment:
TGGATGGATGGATGGAT
-GGMGCKGTGGCTC---

Original motif Consensus sequence: ATCCATCCATCCATCCA

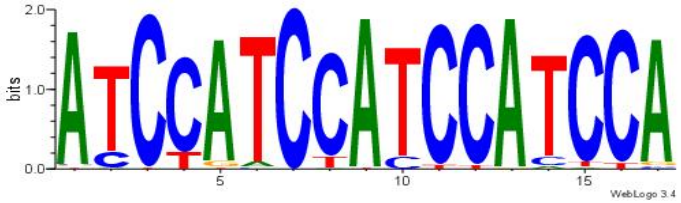

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.107169

Alignment:

```
GGRCKCACWGGAGC
-GGMGCKGTGGCTC
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

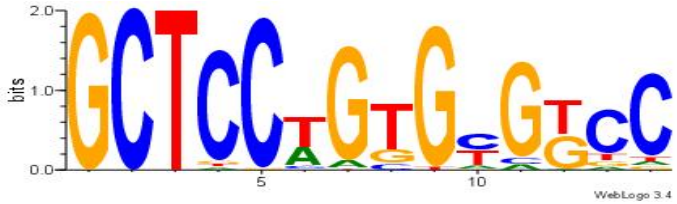

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10724

Alignment:

```
GCCTCACTGCCRC
GAGCCACYGCRCC
```

Original motif Consensus sequence: GCCTCACTGCCRC

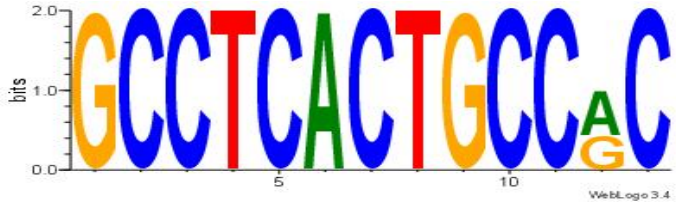

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

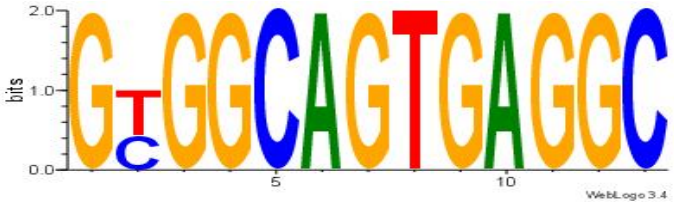

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.107327

Alignment:
CAAGCCTSKGCAATGGCAGG
-GAGCCACYGCRCC------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

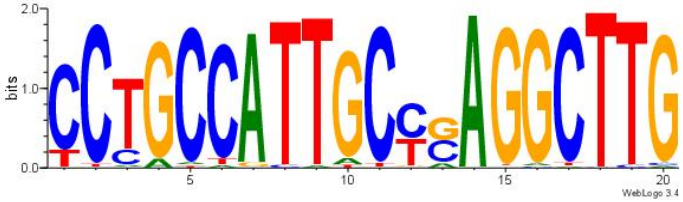

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

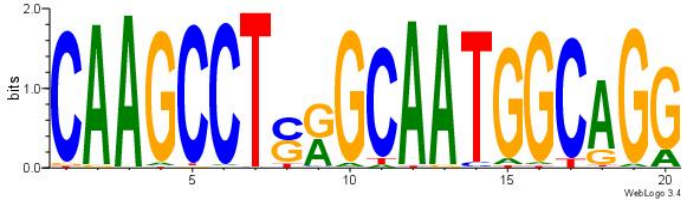

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.107379

Alignment:
GTTGGCCAGGCTGGTCT
---GGMGCKGTGGCTC-

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

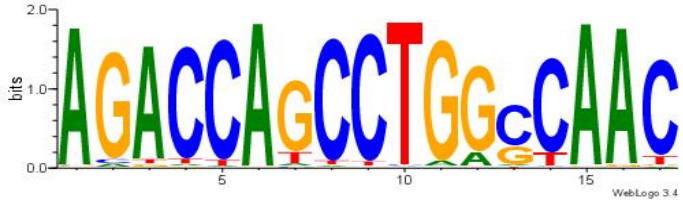

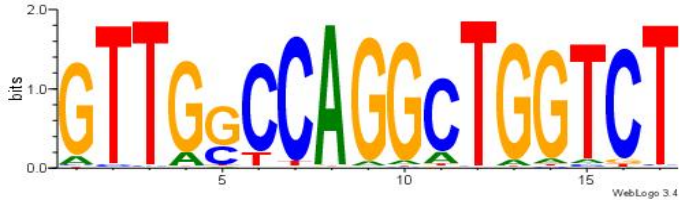

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.107569

Alignment:

```
GGTGGGGGGGTCAGCCCCC
-GAGCCACYGCRCC-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

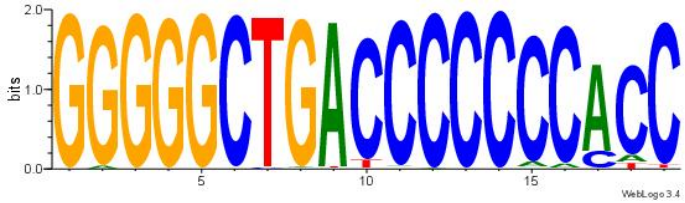

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

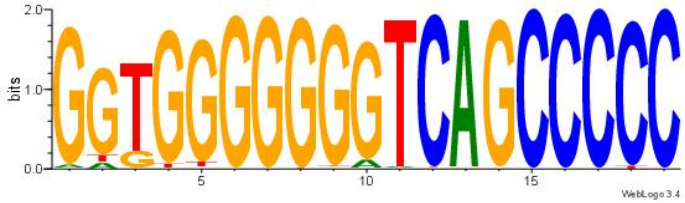

Dataset #: 1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.108264

Alignment:

```
CCGCGGGGCAGGGCTCG
GAGCCACYGCRCC----
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

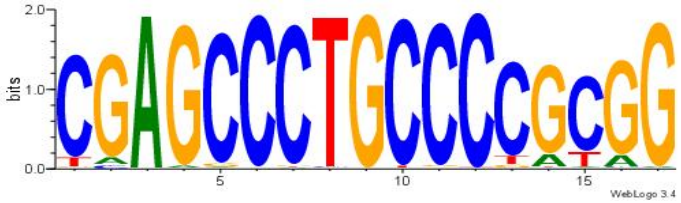

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

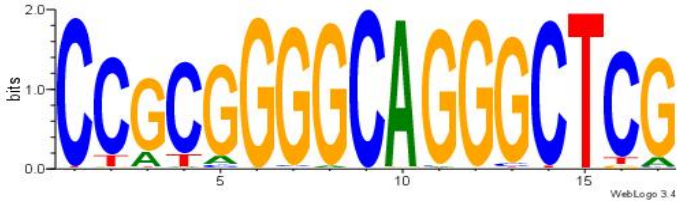

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.108331

Alignment:
GCTGGCCCGCAAGCGCCGCG
----GGMGCKGTGGCTC---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

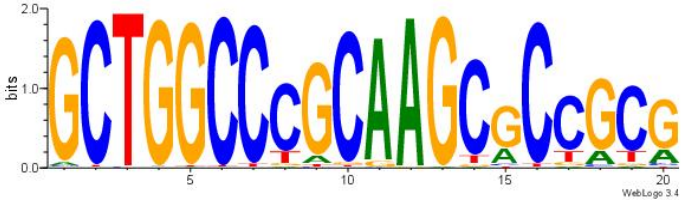

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

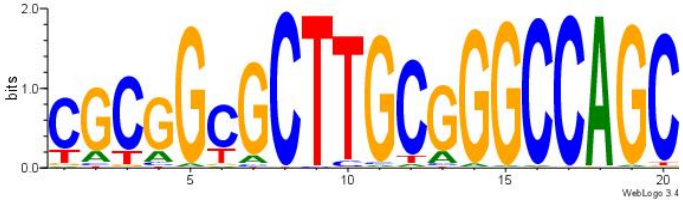

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.108472

Alignment:
AACAACASACACTGGGGCCT
-----GAGCCACYGCRCC--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

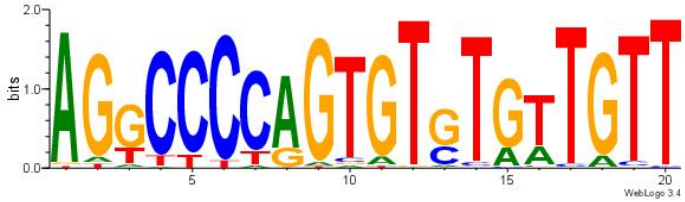

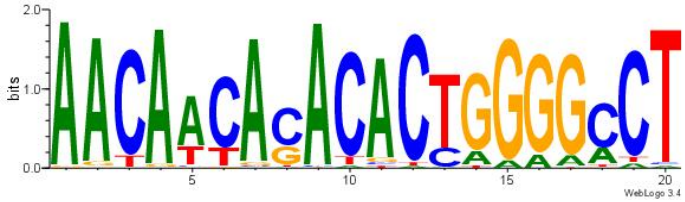

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.108623

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
-----GGMGCKGTGGCTC--
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

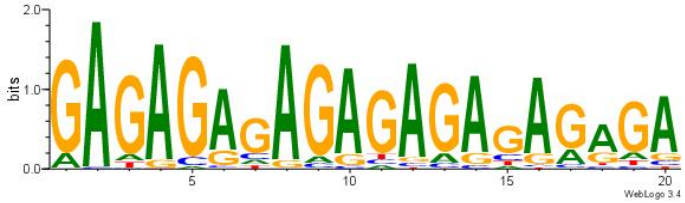

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

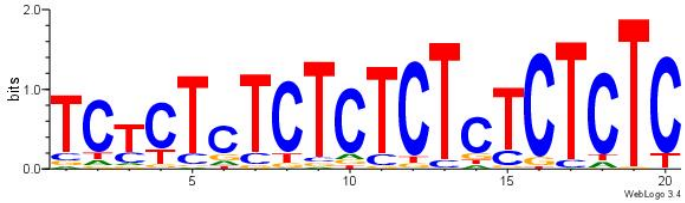

Dataset #:	1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.109072

Alignment:

```
AGGGCCTTTGCASWTGC
-GAGCCACYGCRCC---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

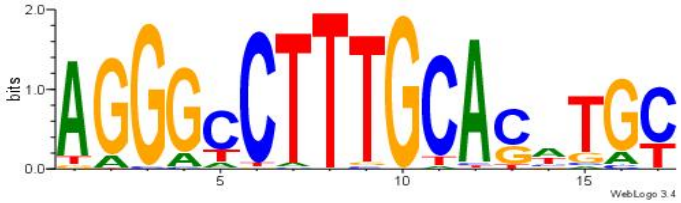

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

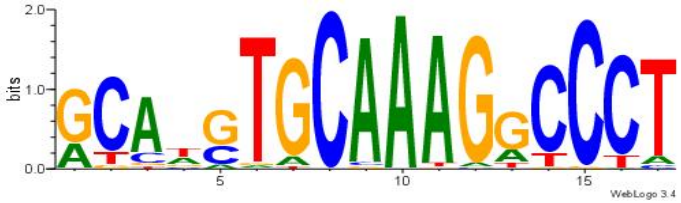

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.109102

Alignment:
GACCTGCAGCCCGCCATG
-----GAGCCACYGCRCC

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

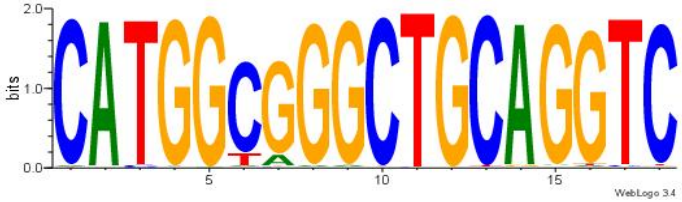

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

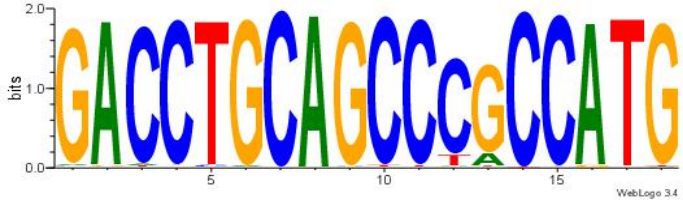

Dataset #: 1
Motif ID: 33
Motif name: Motif 33
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.109519

Alignment:
ACGCCCACGGAGTCTC
GGMGCKGTGGCTC---

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

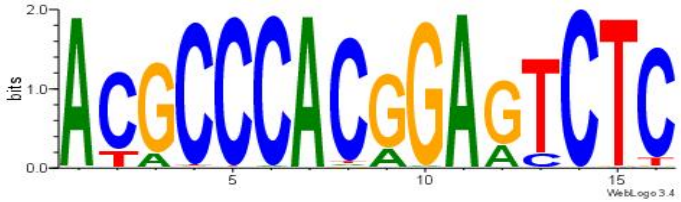

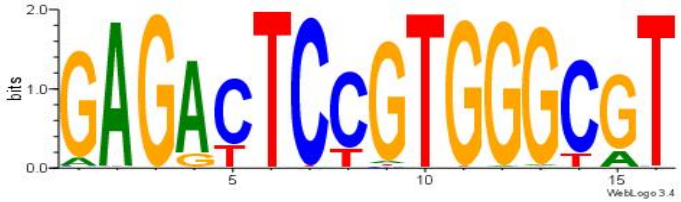

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.110244

Alignment:

```
AGGACTGAGGGTGCCYRGGG
--GAGCCACYGCRCC-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

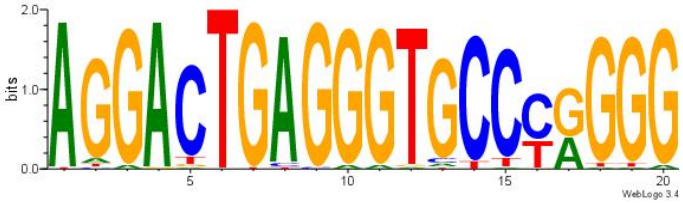

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

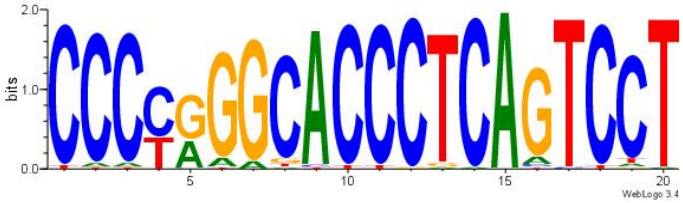

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.111224

Alignment:

```
CTTGGGTGGTCGATGGGAC
------GGMGCKGTGGCTC
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

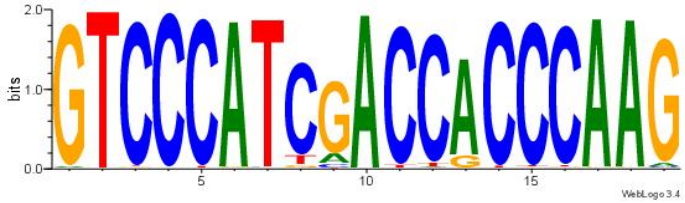

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

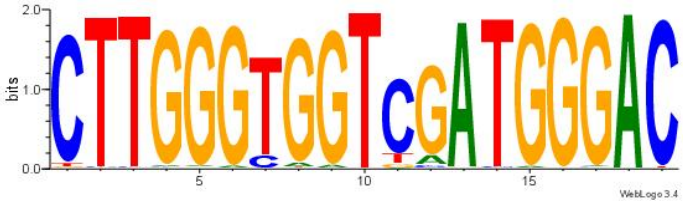

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.111615

Alignment:
ARCTCCTGKSCTCAAGKGAT
GGMGCKGTGGCTC-------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

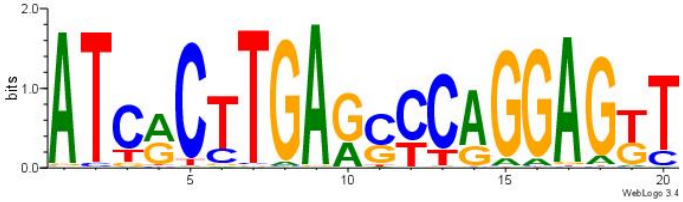

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

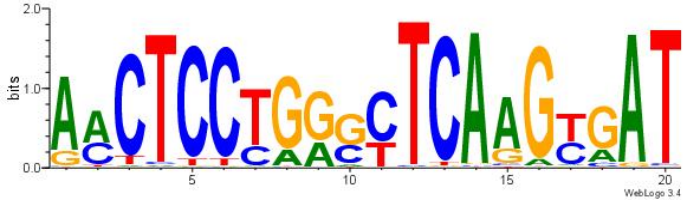

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.111957

Alignment:
CCGCTGCACTGTGGGAGCCC
----GGMGCKGTGGCTC---

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

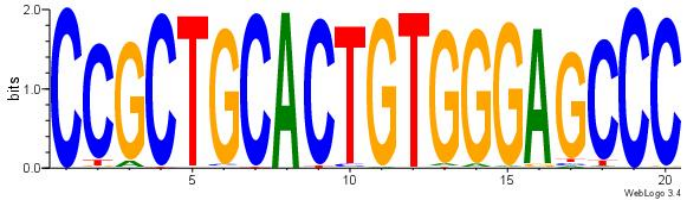

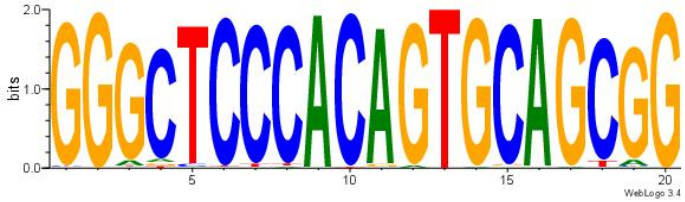

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.111975

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
--GAGCCACYGCRCC-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

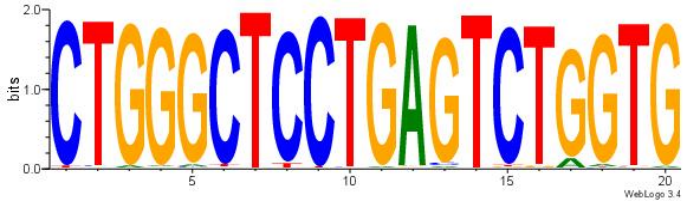

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

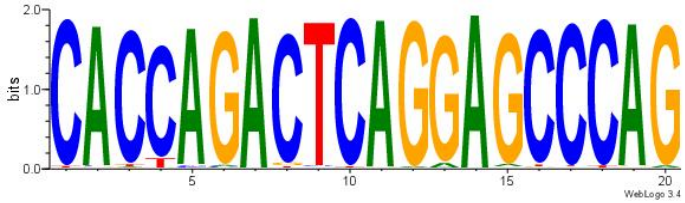

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.112209

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
----GGMGCKGTGGCTC---
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

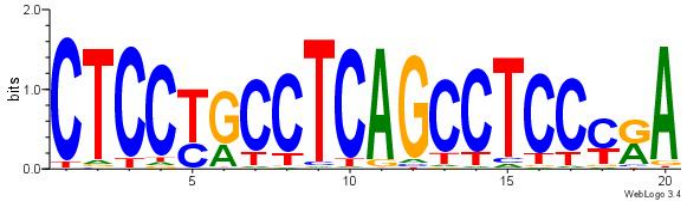

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

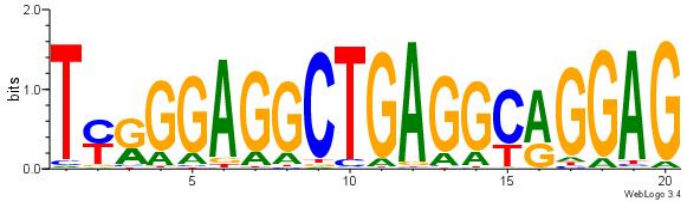

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.112505

Alignment:
CGTCGCTCACGCTGGGAGCT
-GGMGCKGTGGCTC------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

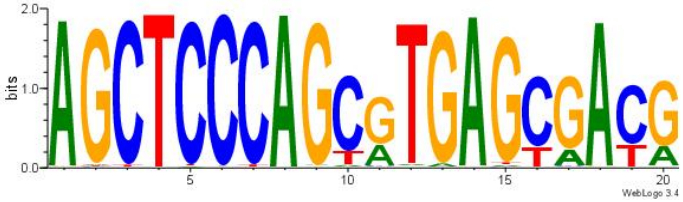

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

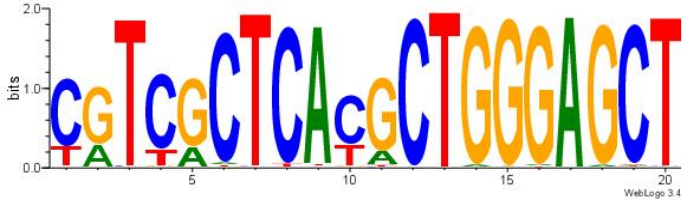

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.113246

Alignment:
GGATTTMKGACTTGCATGGG
GGMGCKGTGGCTC-------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

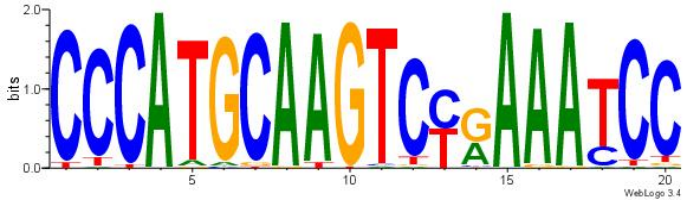

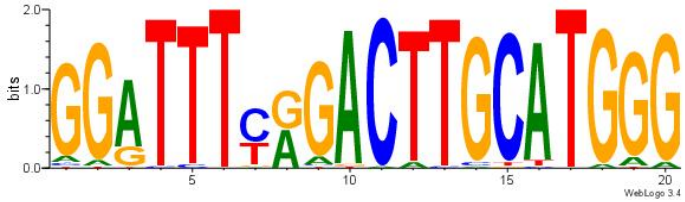

Dataset #: 1 **Motif ID: 108** **Motif name: Motif 108**

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

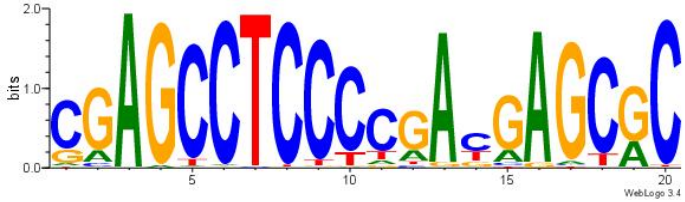

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

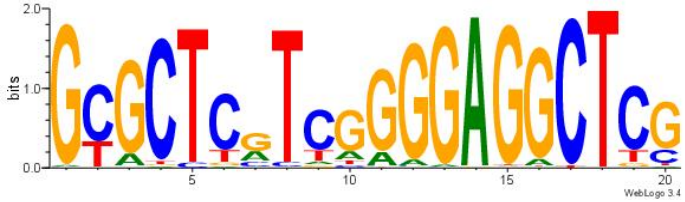

Best Matches for Motif ID 108 (Highest to Lowest)

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0943206

Alignment:

CAAGCCTSKGCAATGGCAGG
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

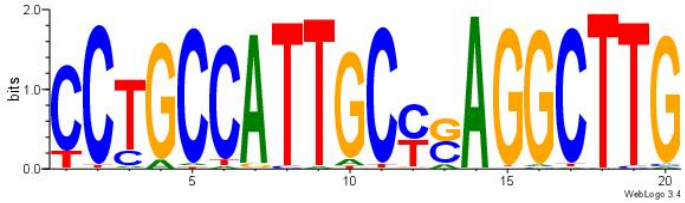

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

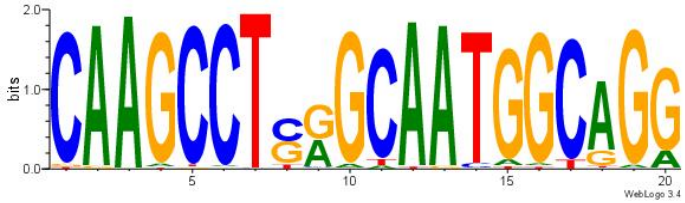

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.095821

Alignment:
CAGCTACTCKTATACCCTTG
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

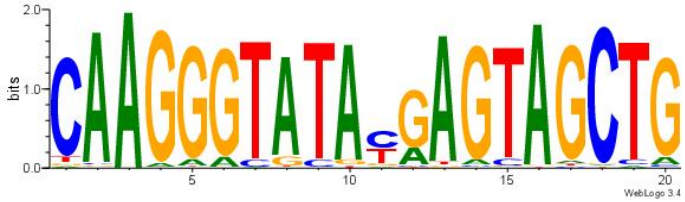

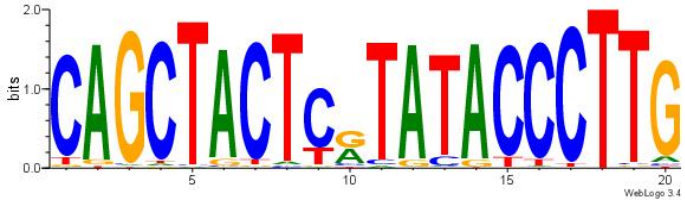

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.100601

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

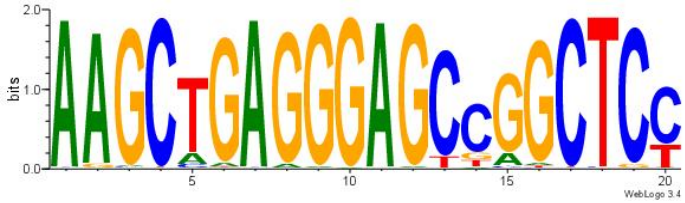

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

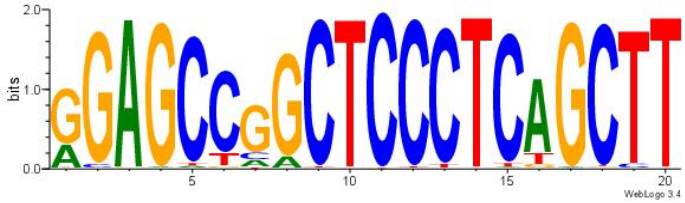

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.107842

Alignment:
GAATACCTCCTGAAGGACCT
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

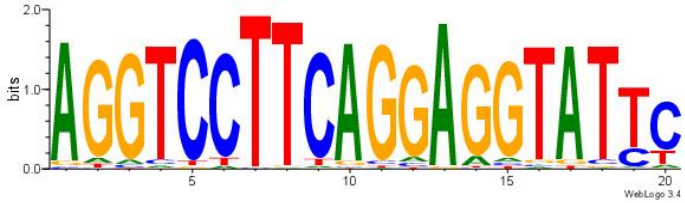

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

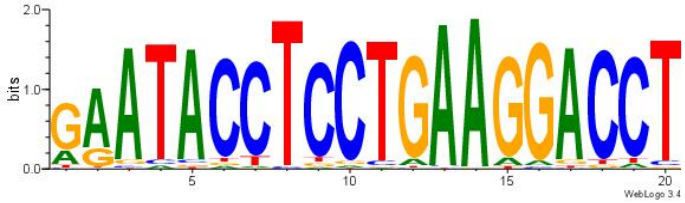

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.112636

Alignment:
GGATCCACTGGGTGAAGCCA
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

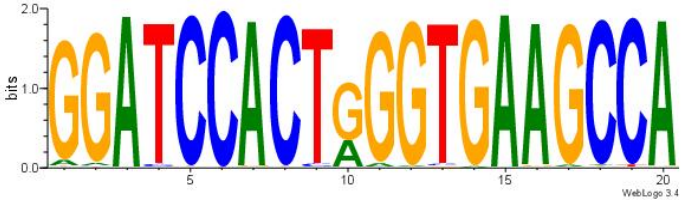

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

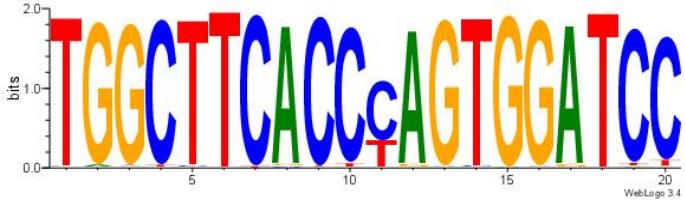

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.116462

Alignment:
AAGACCTTCCAGTGGGACAA
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

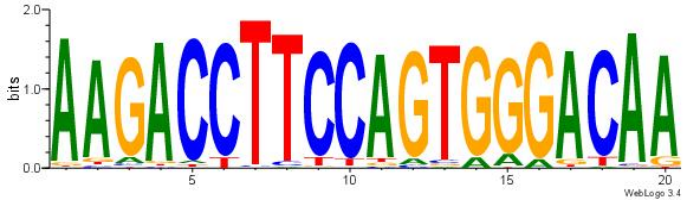

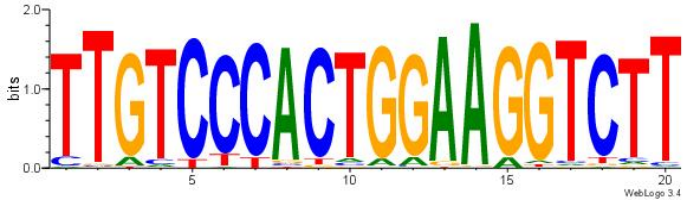

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.11783

Alignment:

```
CCGCTGCACTGTGGGAGCCC
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

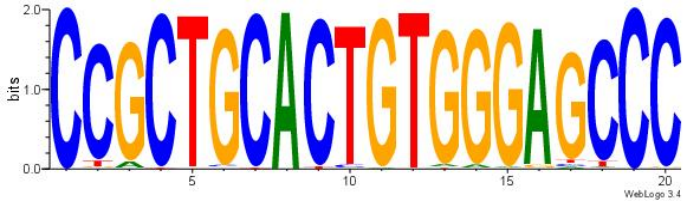

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

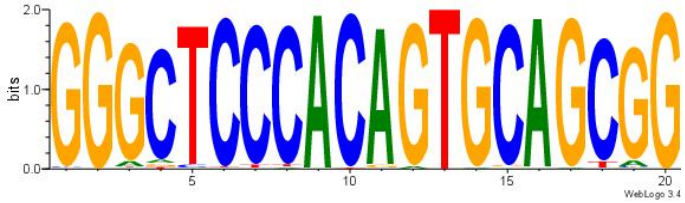

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.118663

Alignment:

```
TCCCTCCCGGACGGGGYGGC
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

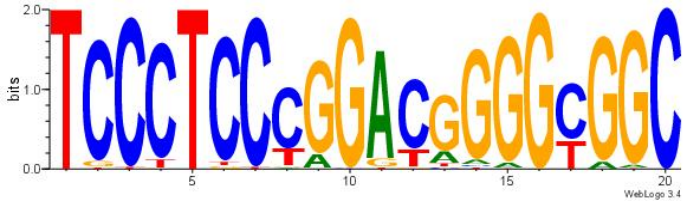

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

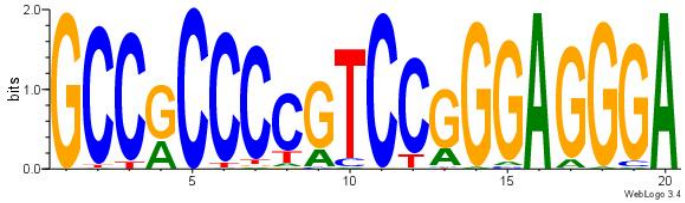

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.12018

Alignment:
AAGCTCGAACTGGGTGGAGC
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

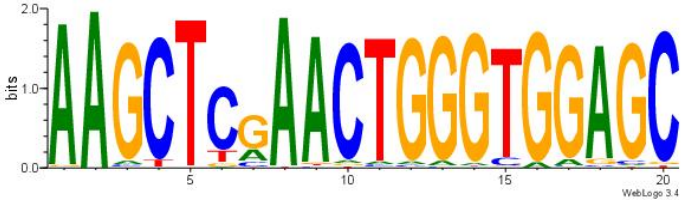

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

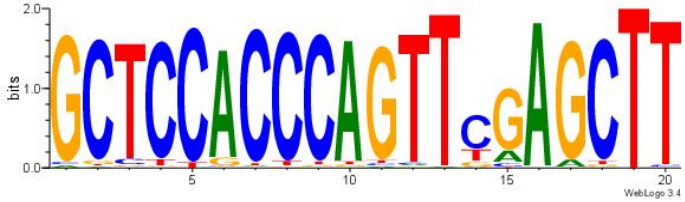

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.121744

Alignment:
CRTGAGCCACYGYRCCYGGC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

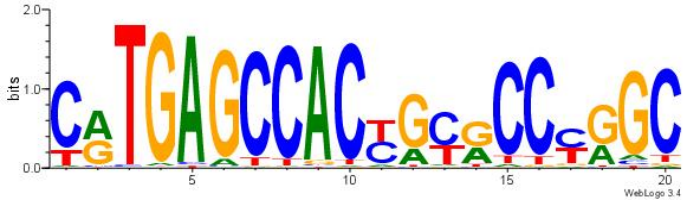

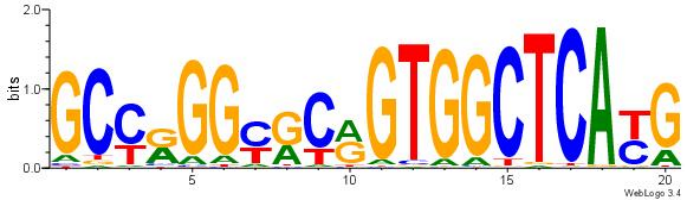

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122112

Alignment:
ACTCCCTAGTGAGATGAACC
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

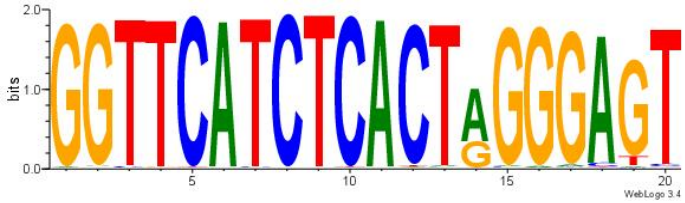

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

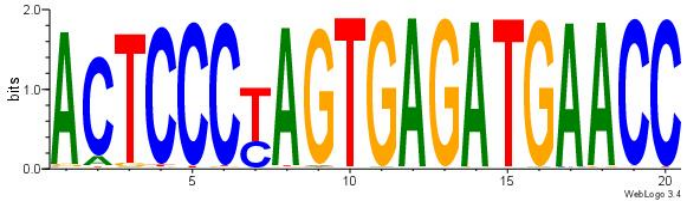

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122982

Alignment:

```
AGTAGGTGCTCARTAAATRB
CGAGCCTCCCCGAYGAGCGC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

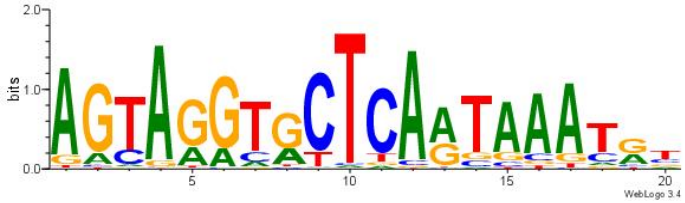

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

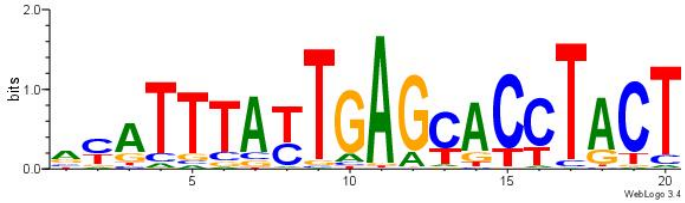

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.12331

Alignment:
GTAACACTCACCGCGARGGT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

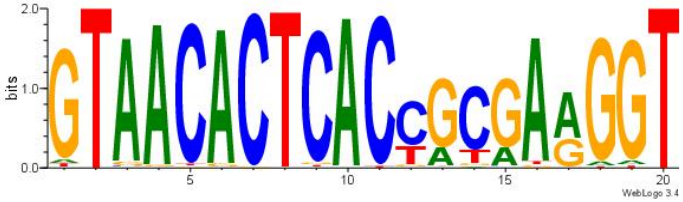

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

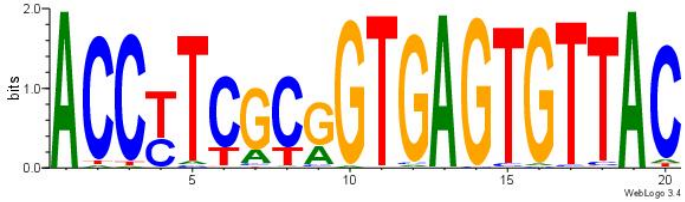

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.124014

Alignment:
CTGGGCRACAGAGYRAGACY
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

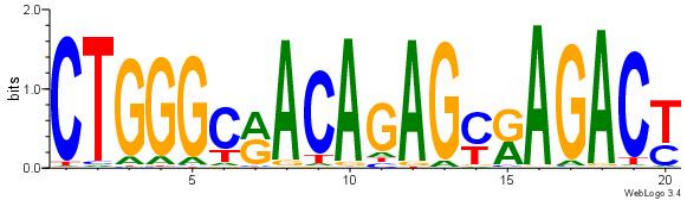

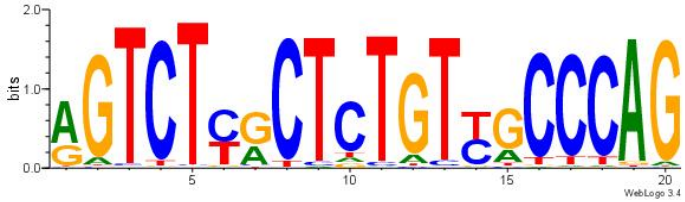

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125528

Alignment:

```
GTGCCAGGCACTGTKCTARG
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

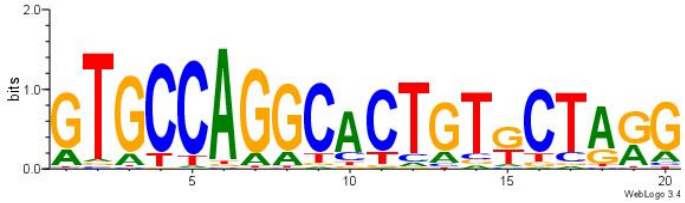

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

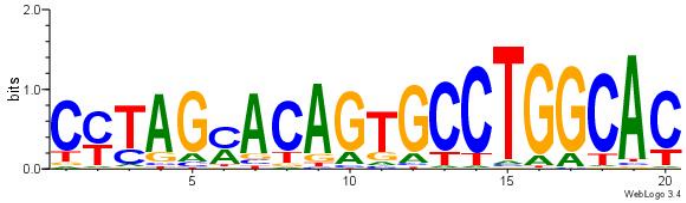

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125921

Alignment:

GCCTCCTTGAGCTGTGGTGG

GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

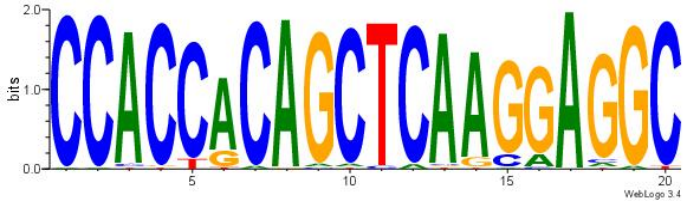

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

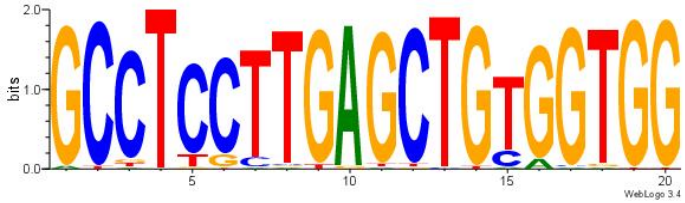

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.126288

Alignment:
GCTGTGTGACCTTGGGCAAG
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

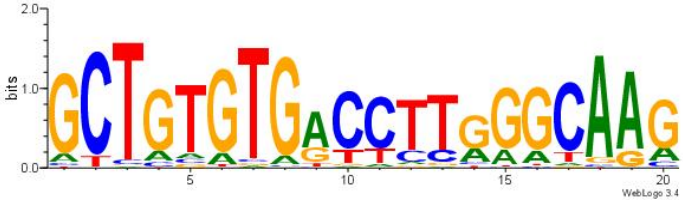

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

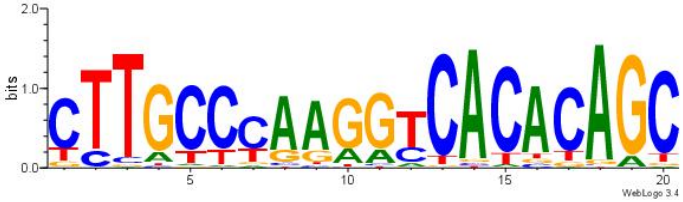

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.129189

Alignment:
GAGAGAGAGAGAGAGAGAGA
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

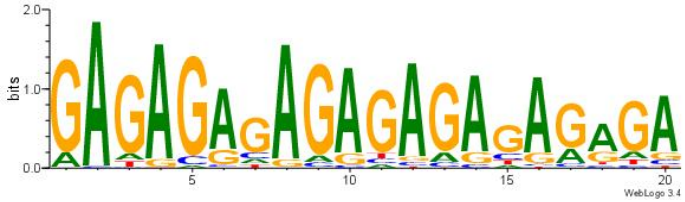

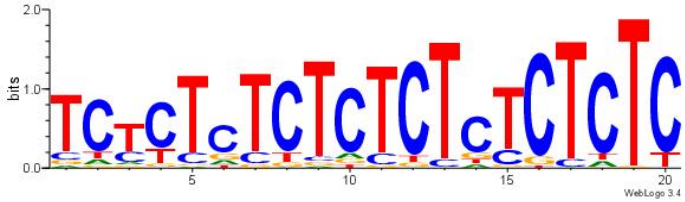

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129542

Alignment:
GGCAATGCCTCGCCCTGCTT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

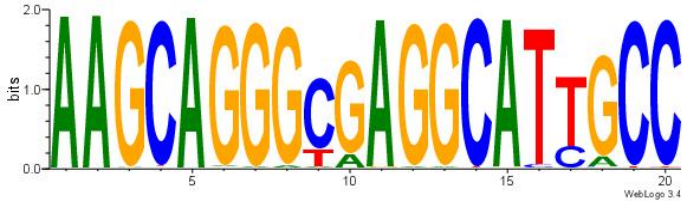

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

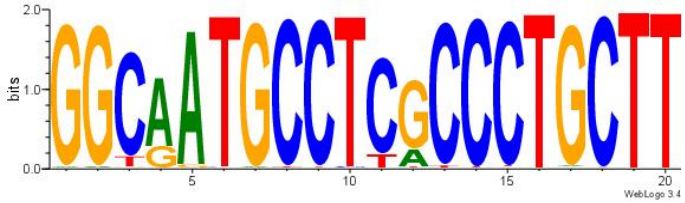

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129805

Alignment:
GAAHCAACCKAAKTGTCCAT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

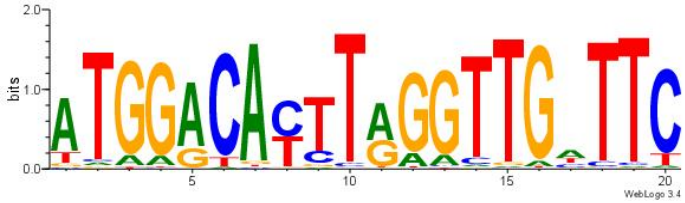

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

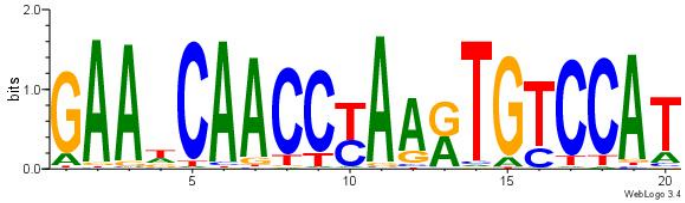

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131129

Alignment:
GCTGGCCCGCAAGCGCCGCG
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

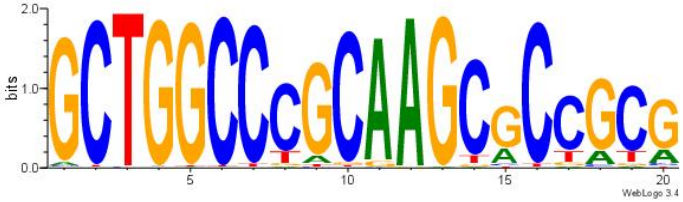

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

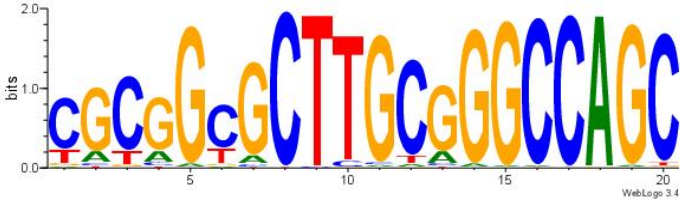

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131439

Alignment:
CTGGGCTCCTGAGTCTGGTG
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

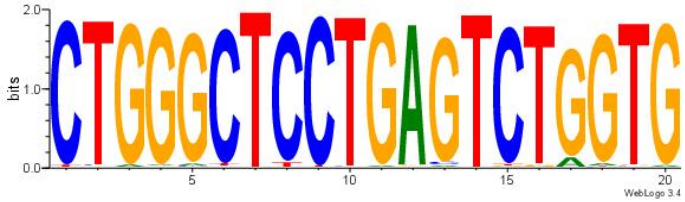

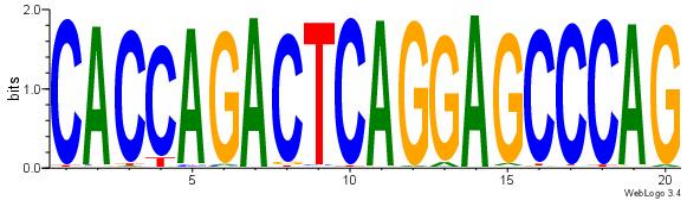

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131986

Alignment:
ACTGTCTTCCACCTCCACAT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

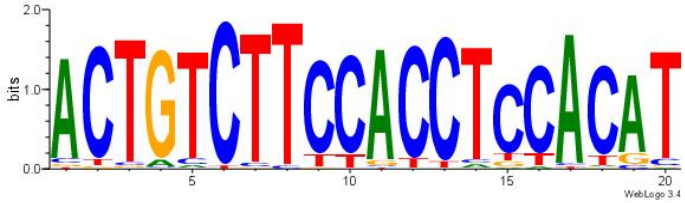

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

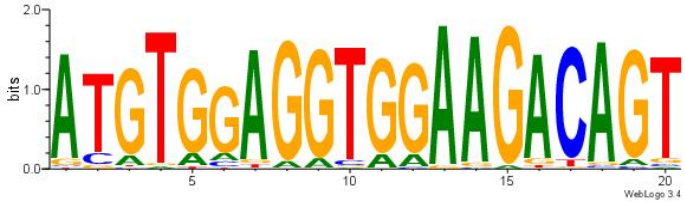

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13266

Alignment:
AGAGCCAAATCATGARTGAA
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

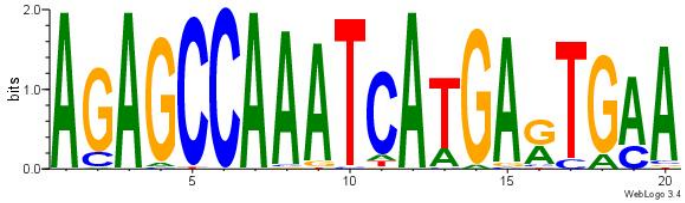

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

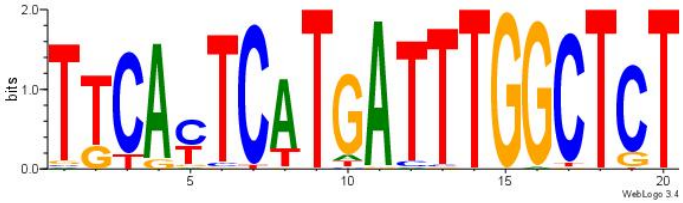

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.133115

Alignment:
AAGTTCTKGGKTACATGTGC
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

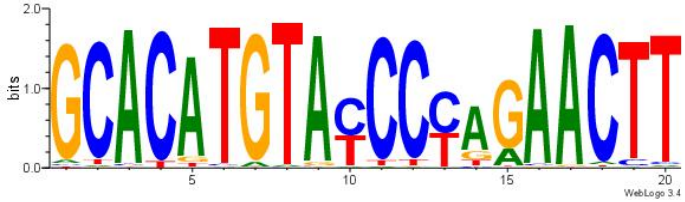

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

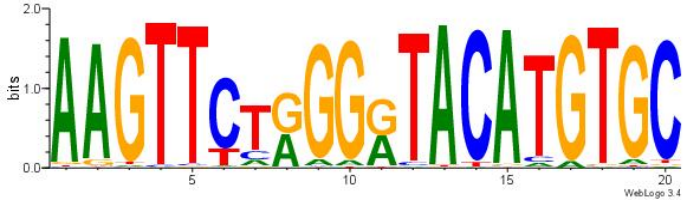

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134061

Alignment:
TWTACCTATGTAACAAACCT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

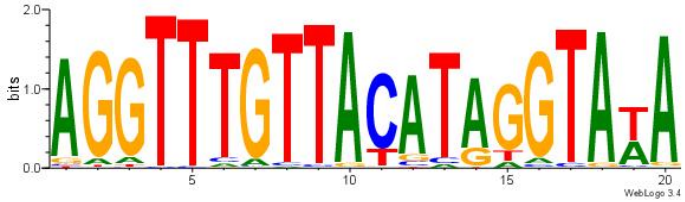

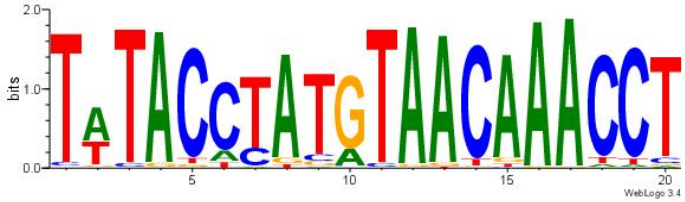

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134755

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CGAGCCTCCCCGAYGAGCGC
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

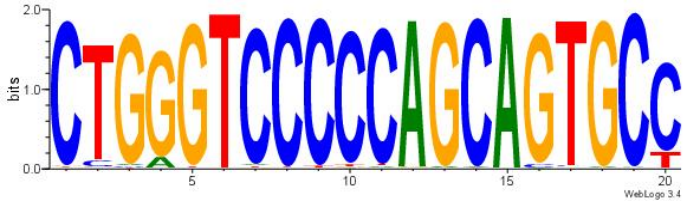

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

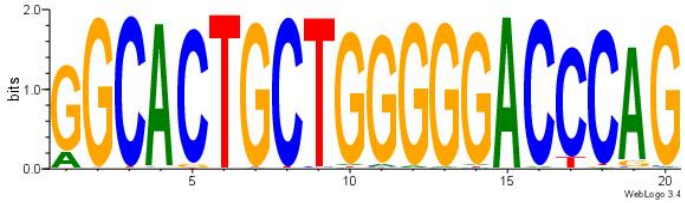

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135044

Alignment:

```
TAGATAATAGCTCCAGCTTT
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

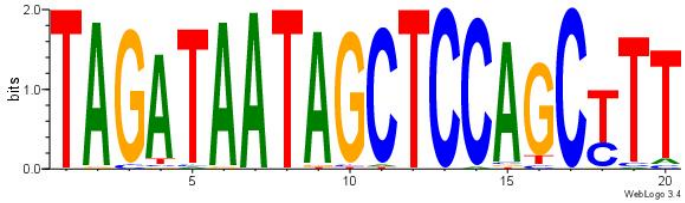

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

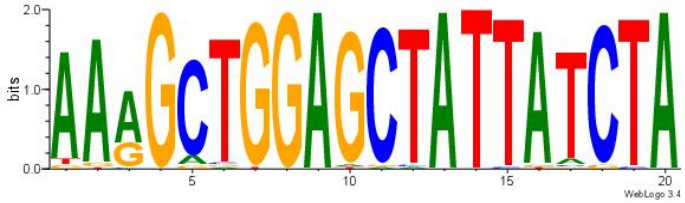

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136319

Alignment:
GCCTCTCCCTCCACACCTCC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

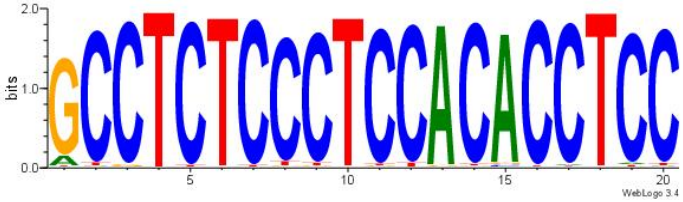

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

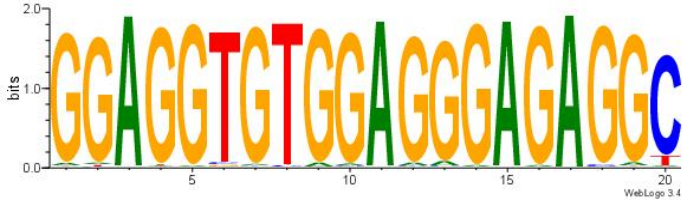

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136627

Alignment:
TCKMGCCACTGCACTCCAGC
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

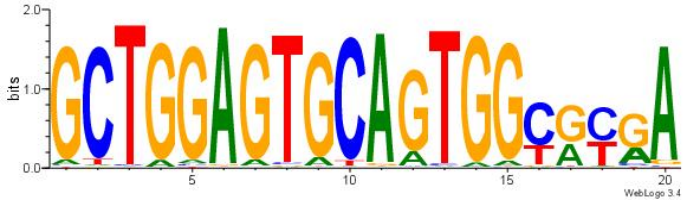

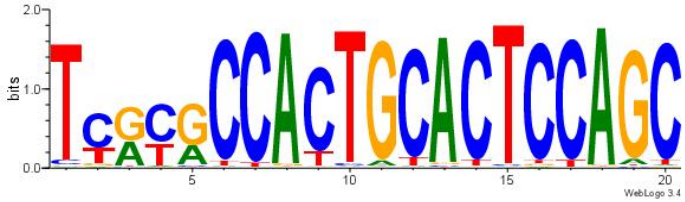

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137689

Alignment:

```
KKCACCTTGATCTTGGACTT
CGAGCCTCCCCGAYGAGCGC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

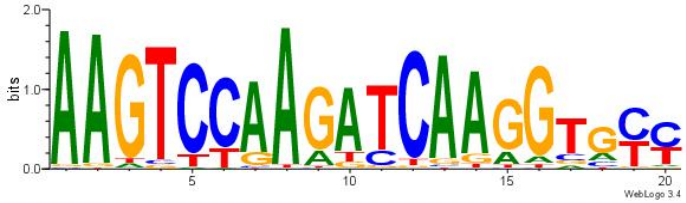

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

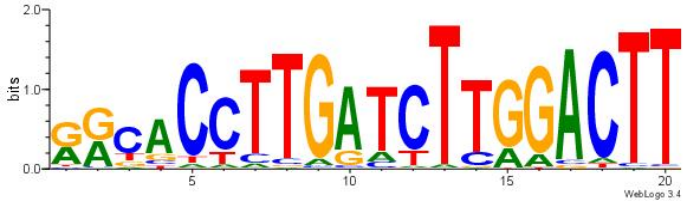

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137933

Alignment:

```
TAATTTTATGTGTCAACTTG
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

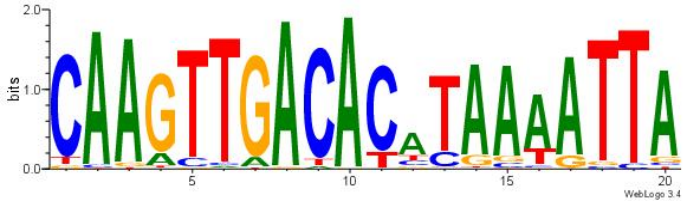

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

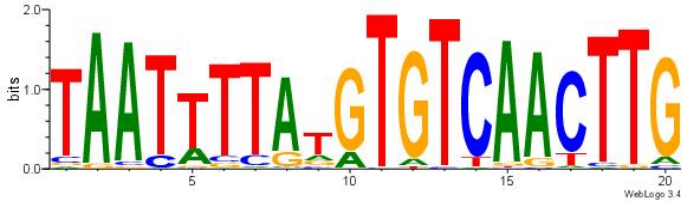

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138848

Alignment:
GAAACTGCTTTGTGATGTGT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

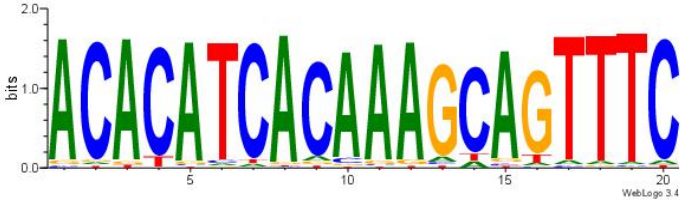

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

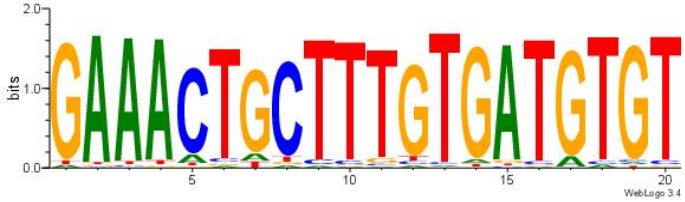

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139385

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

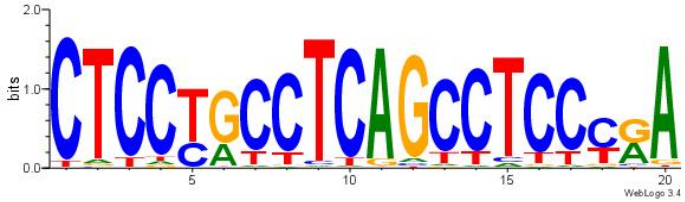

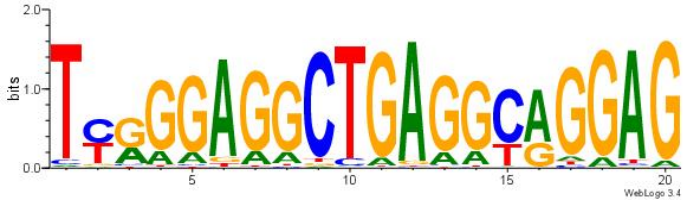

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139786

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CGAGCCTCCCCGAYGAGCGC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

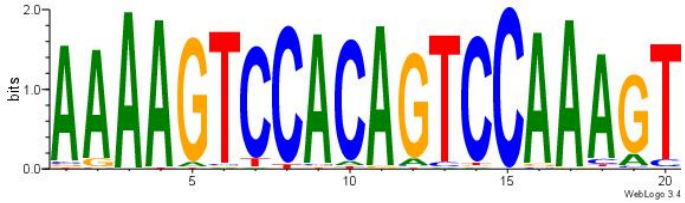

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

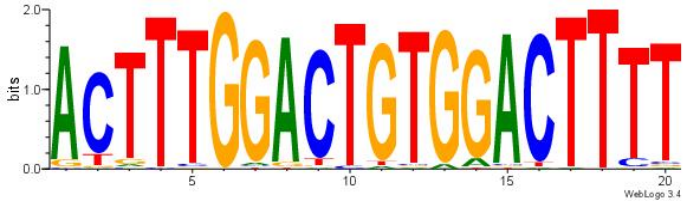

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139787

Alignment:
AAAATGTGGTAYATAYAYAC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

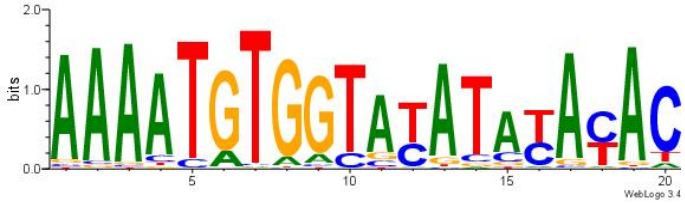

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

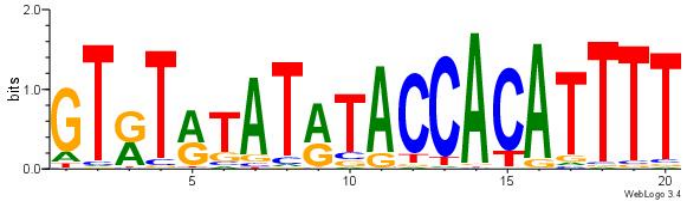

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141084

Alignment:
CTGGCCCTCAATGGTTAAAC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

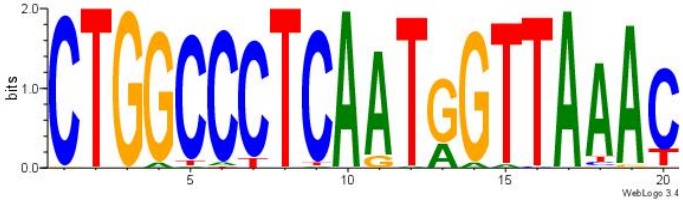

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

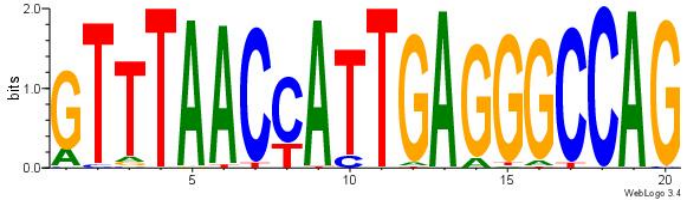

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141092

Alignment:
AGCTCMKCCTCCTGTCAGAT
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

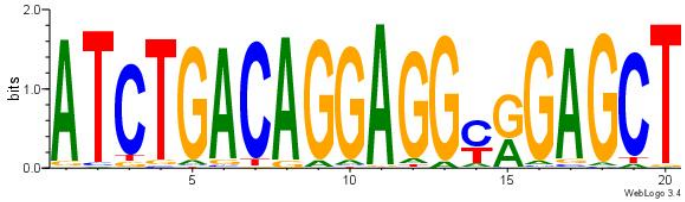

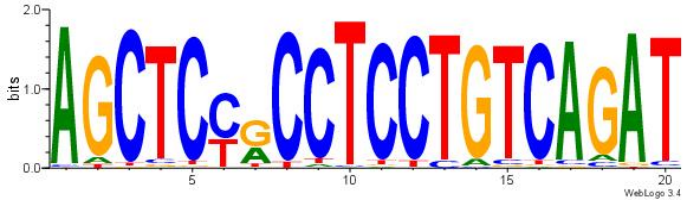

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141162

Alignment:
ACCGAGMKMGCAGCTTCGGG
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

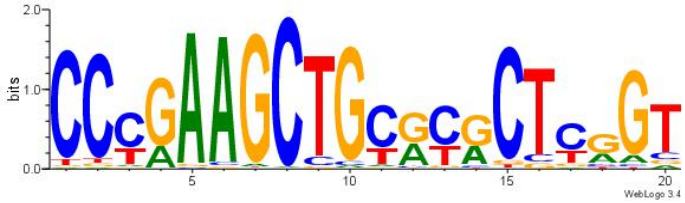

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

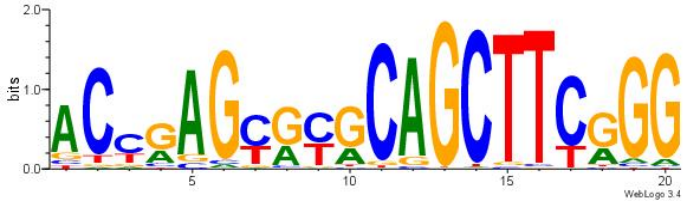

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141685

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
CGAGCCTCCCCGAYGAGCGC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

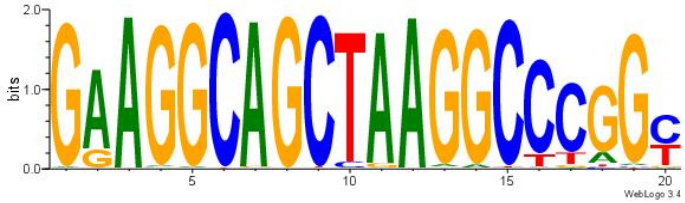

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

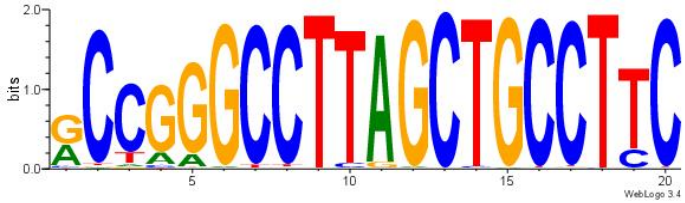

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141699

Alignment:
CGGCGCTGMGCTCGATTTCT
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

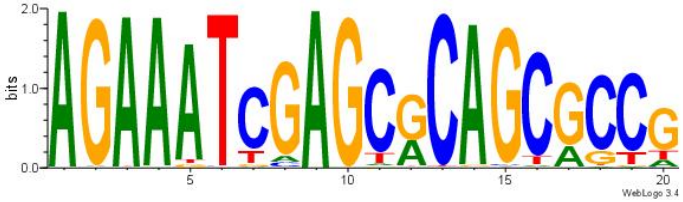

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

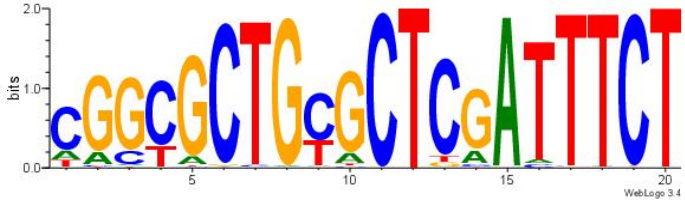

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142256

Alignment:
AGCTCCCAGCGTGAGCGACG
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

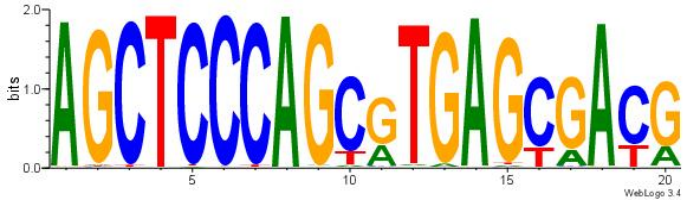

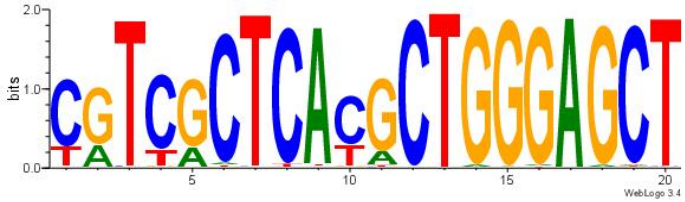

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143115

Alignment:

```
ACCCAATWTGTAGTCTTTTA
GCGCTCKTCGGGGAGGCTCG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

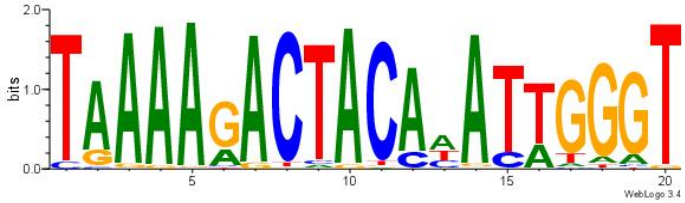

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

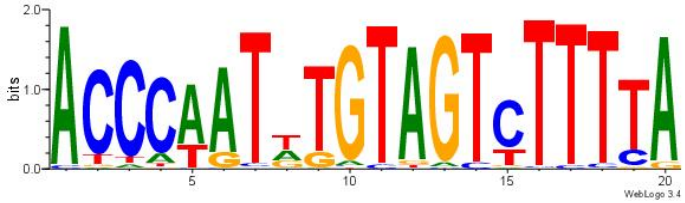

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144033

Alignment:

GCCAGTCACAAAARGACAMA
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

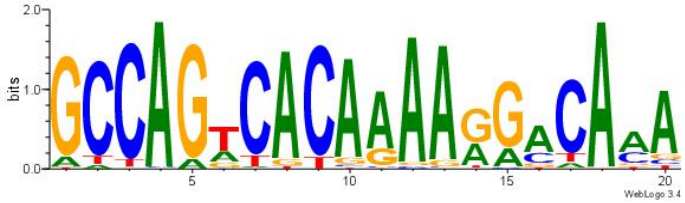

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

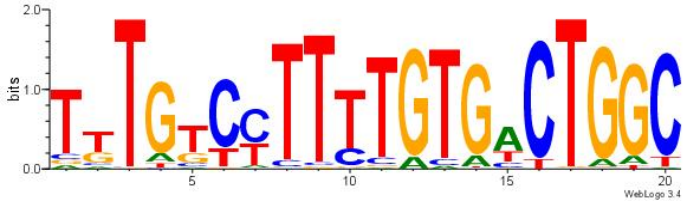

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144338

Alignment:
AAAMAMMKMATGTTCTCACT
GCGCTCKTCGGGGAGGCTCG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

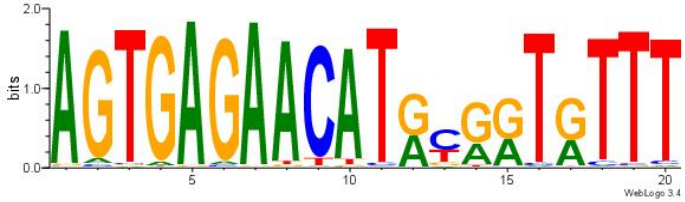

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

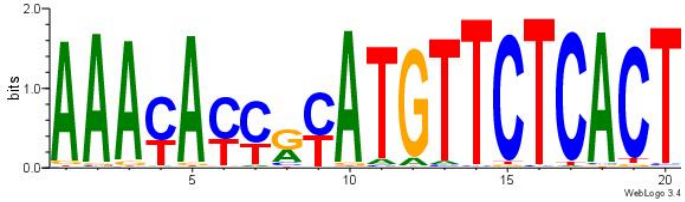

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144958

Alignment:
AGCTGTGAGAAGAGGGCCAC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

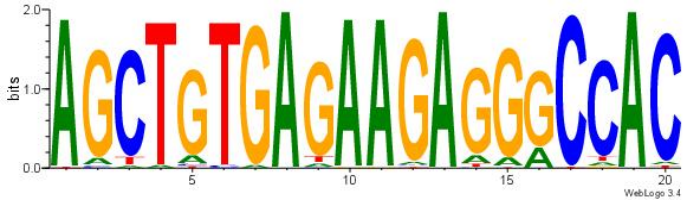

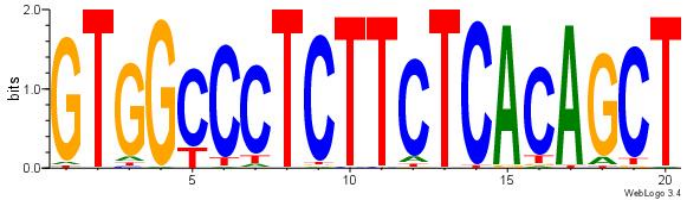

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145027

Alignment:

```
CTAGACATAAAGGTTCTCCA
CGAGCCTCCCCGAYGAGCGC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

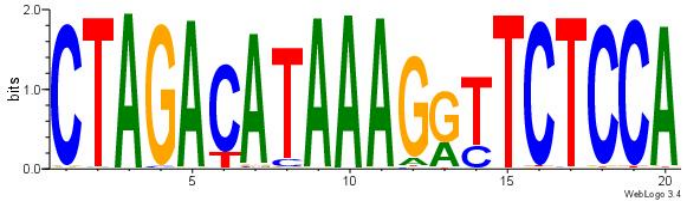

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

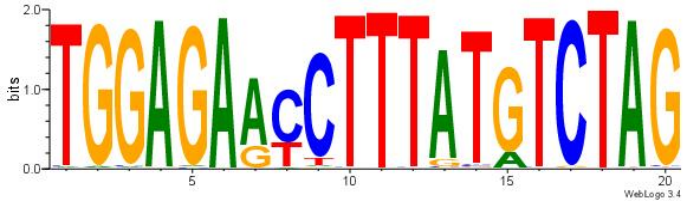

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145192

Alignment:
AAATTAGGCCAATTAATAAC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

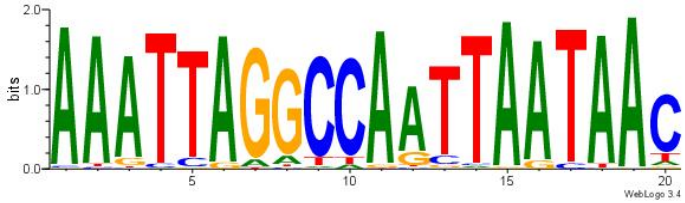

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145468

Alignment:
CAACATGGATGRARCTGGAG
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

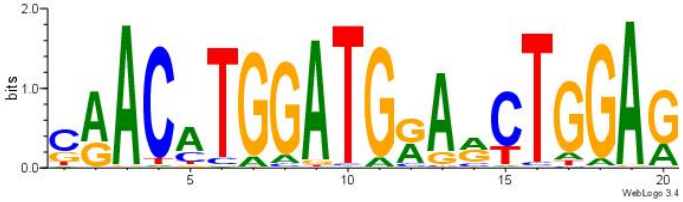

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

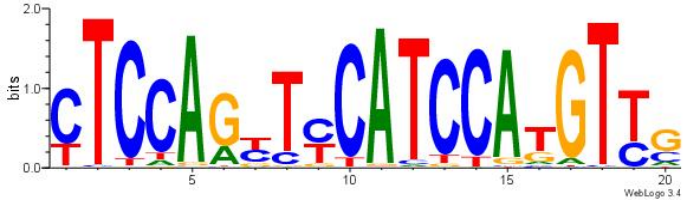

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145746

Alignment:
ATTGGTGTATTTACAATCCC
CGAGCCTCCCCGAYGAGCGC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

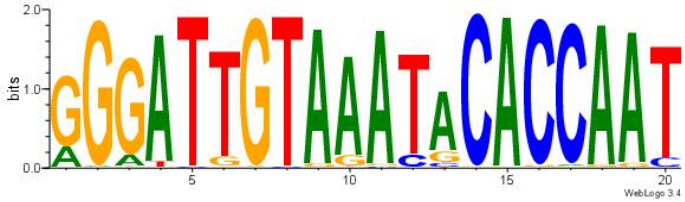

Dataset #: 1 **Motif ID: 109** **Motif name: Motif 109**

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

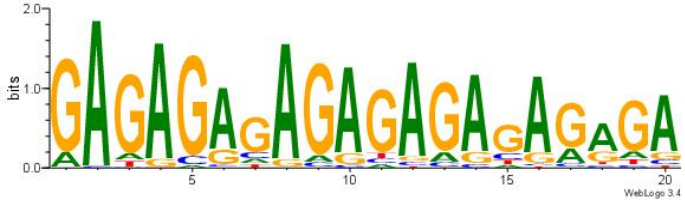

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

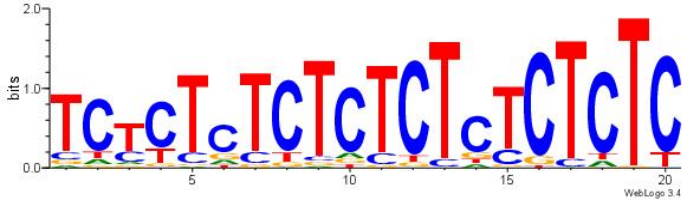

Best Matches for Motif ID 109 (Highest to Lowest)

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0851551

Alignment:

MGTCTMKCTCTGTKGCCCAG
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

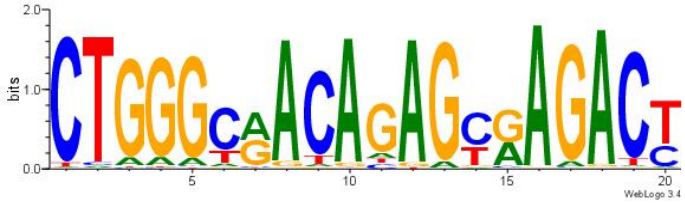

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

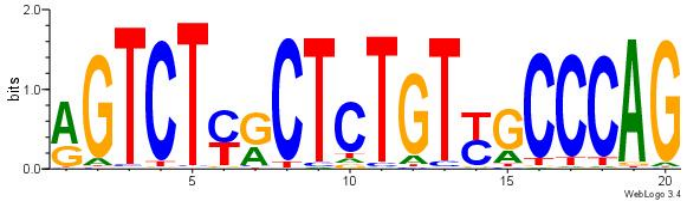

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0867304

Alignment:
GCCAGTCACAAAARGACAMA
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

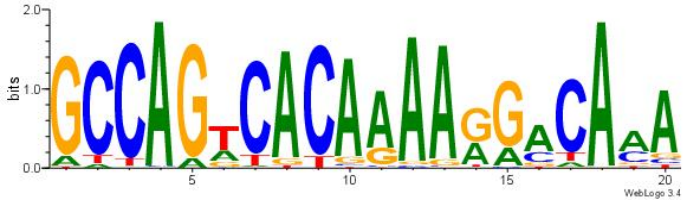

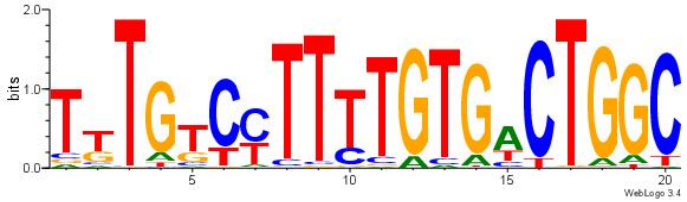

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.105417

Alignment:
CMTAGYACAGTGCCTGGCAC
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

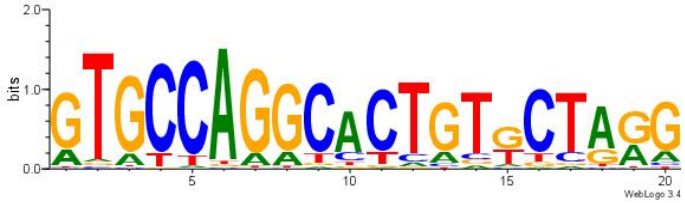

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

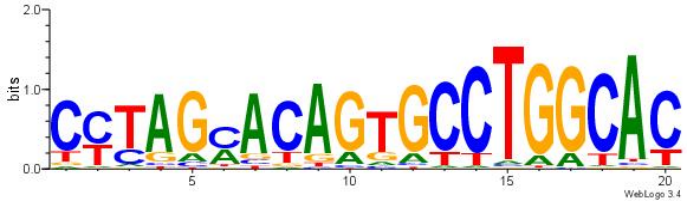

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.10584

Alignment:

```
TCKMGCCACTGCACTCCAGC
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

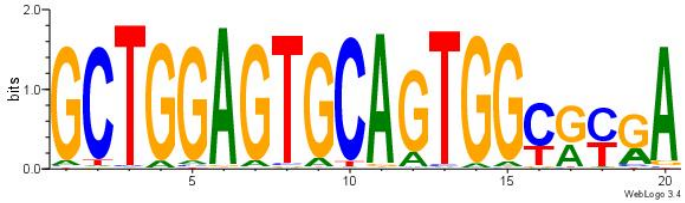

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

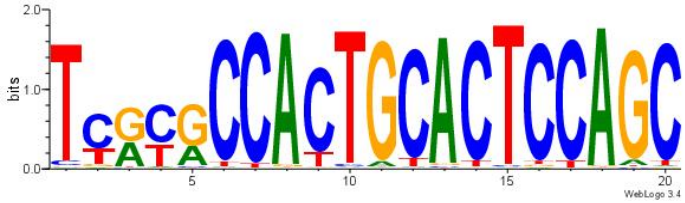

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.107291

Alignment:
CTCCTGCCTCAGCCTCCCRA
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

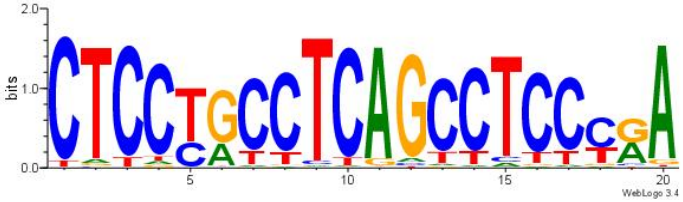

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

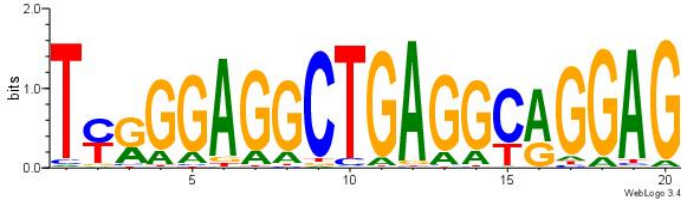

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.109514

Alignment:
CCCMKGGCACCCTCAGTCCT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

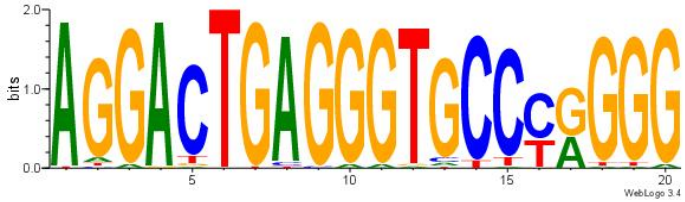

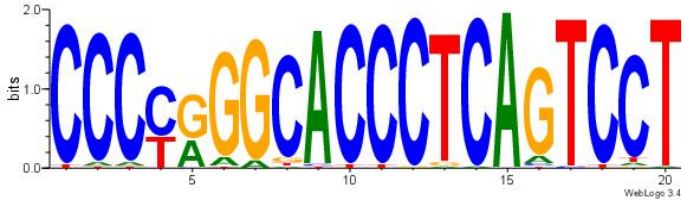

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.109787

Alignment:
KKCACCTTGATCTTGGACTT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

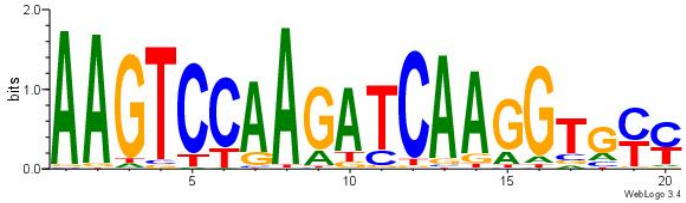

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

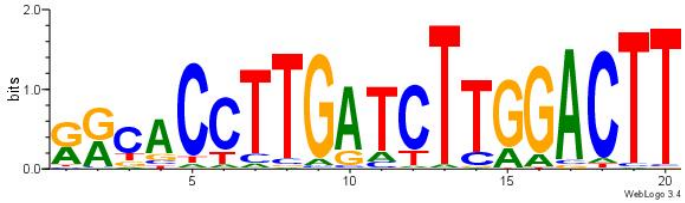

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.111741

Alignment:

```
ATGATCCAGCAATYCCACTH
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

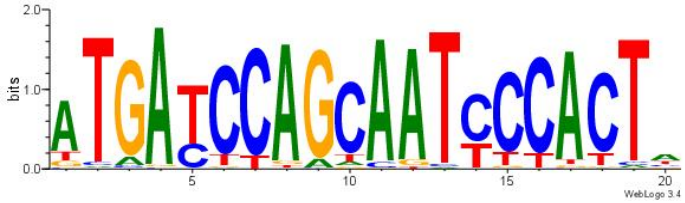

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

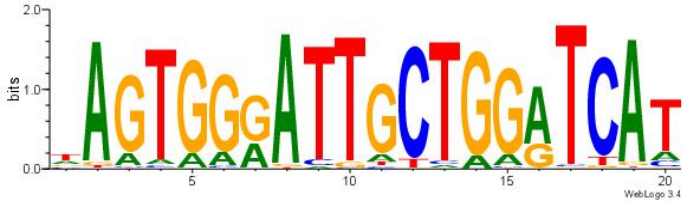

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.112489

Alignment:
GTCTCWAMAAAAAAWAMAAA
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

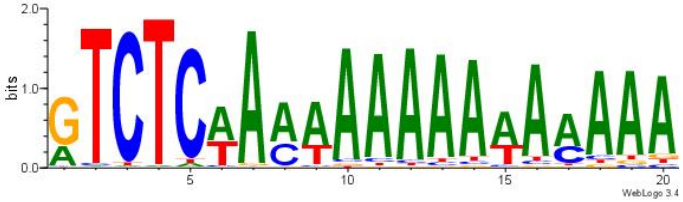

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

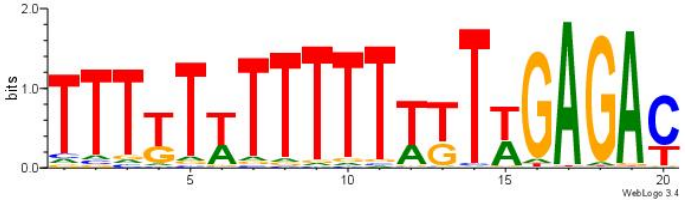

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.114082

Alignment:
ATGTGGAGGTGGAAGACAGT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

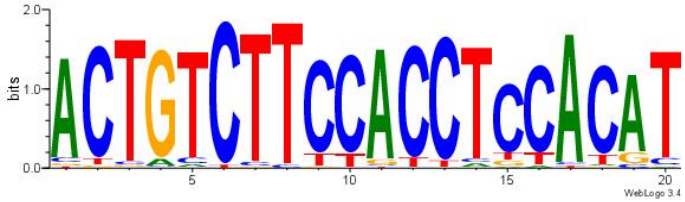

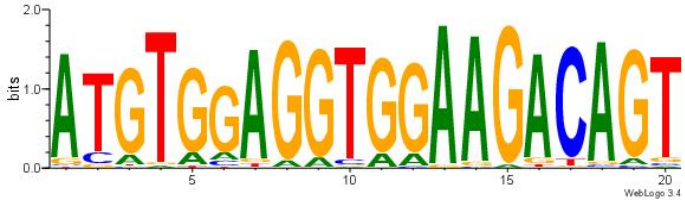

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117155

Alignment:

```
CAAGTTGACACATAAAATTA
GAGAGAGAGAGAGAGAGAGA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

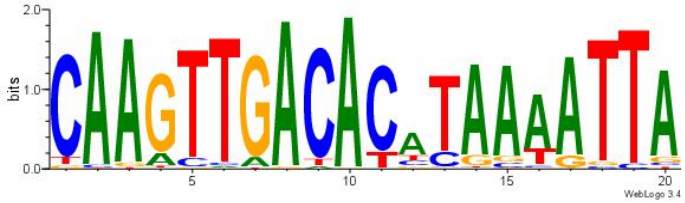

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

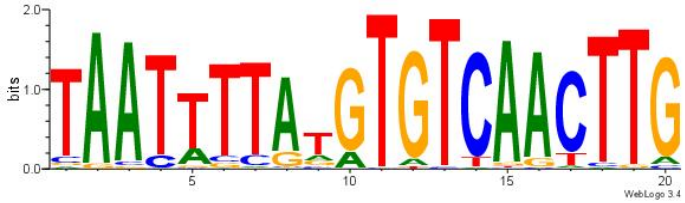

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11745

Alignment:

GGGAGGTGTCTCCCAGTCAG
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

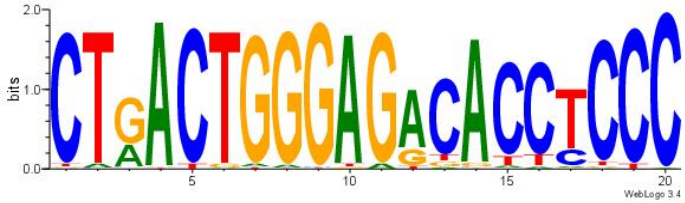

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

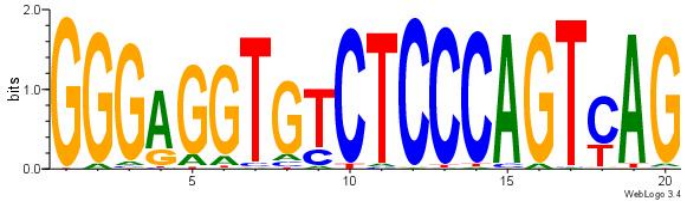

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.117877

Alignment:
GTAACACTCACCGCGARGGT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

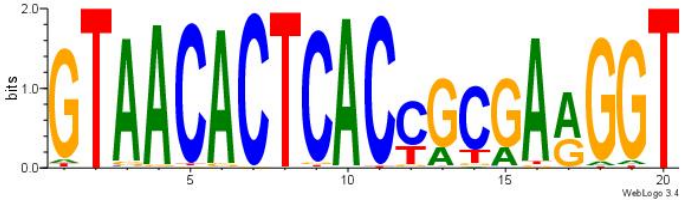

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

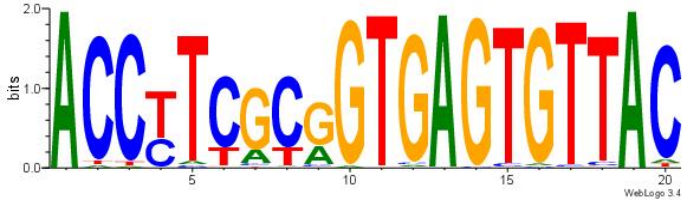

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.121552

Alignment:
TAAAAGACTACAWATTGGGT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

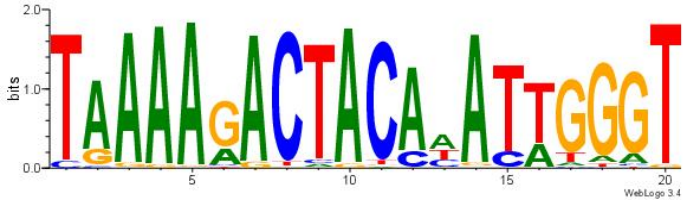

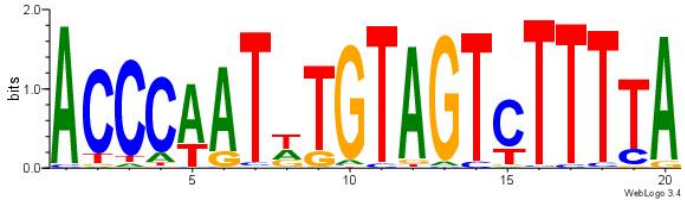

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122036

Alignment:

```
AGTAGGTGCTCARTAAATRB
GAGAGAGAGAGAGAGAGAGA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

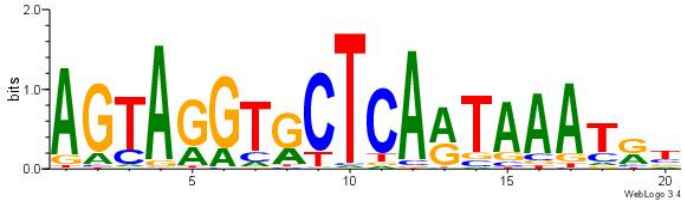

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

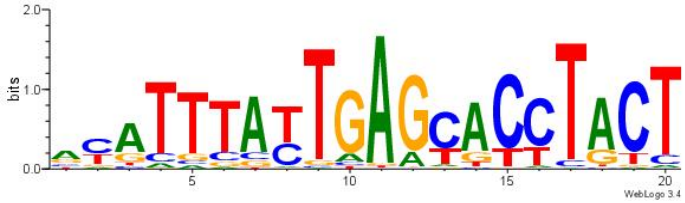

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122191

Alignment:

```
GCTCCACCCAGTTCGAGCTT
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

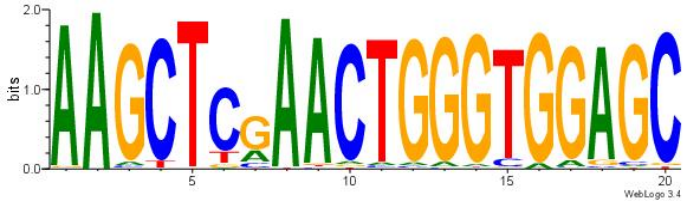

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

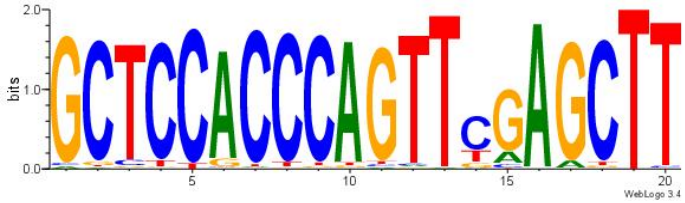

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.122633

Alignment:
GACTGGCAGGCAGCTCCACC
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

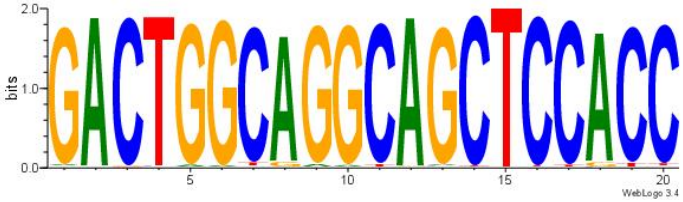

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

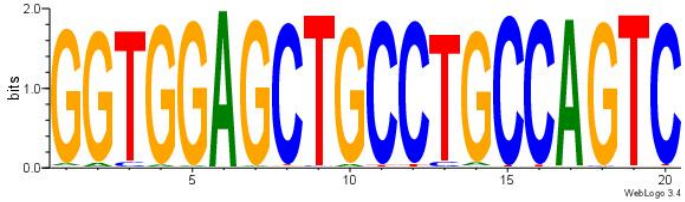

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.124

Alignment:
TWTACCTATGTAACAAACCT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

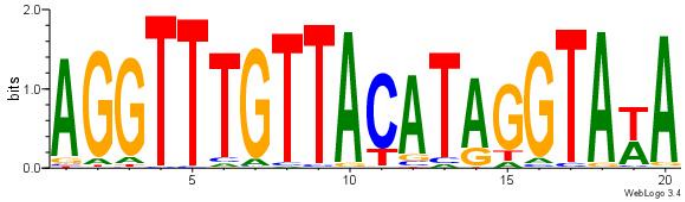

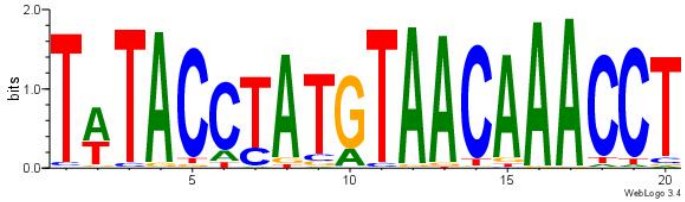

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125076

Alignment:
CGTCGCTCACGCTGGGAGCT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

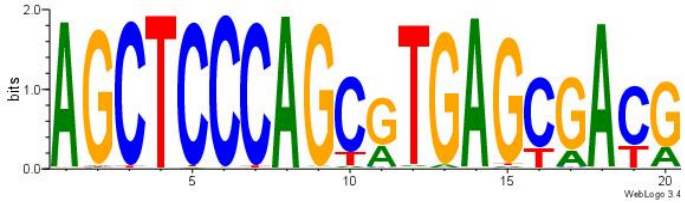

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

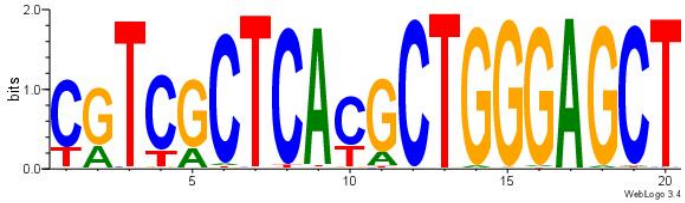

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126017

Alignment:
AAATTACCCAGTCTCAGGTA
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

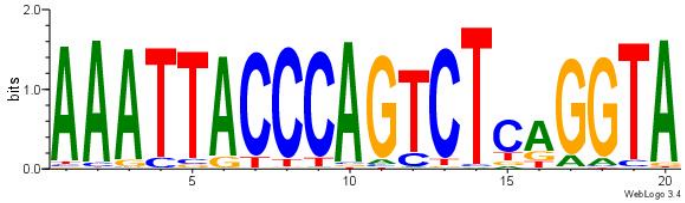

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

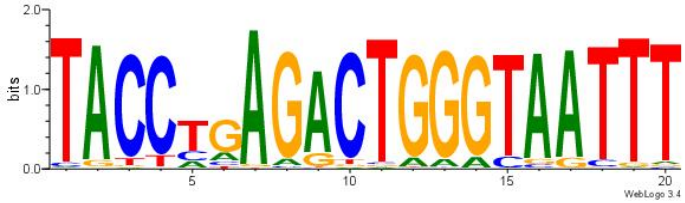

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.126975

Alignment:
GCTGTGTGACCTTGGGCAAG
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

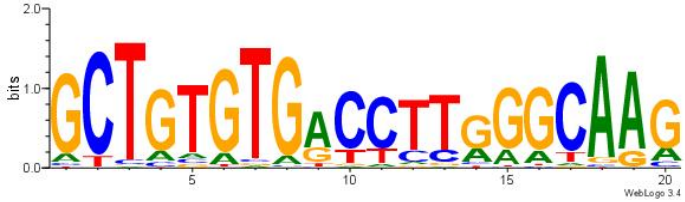

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

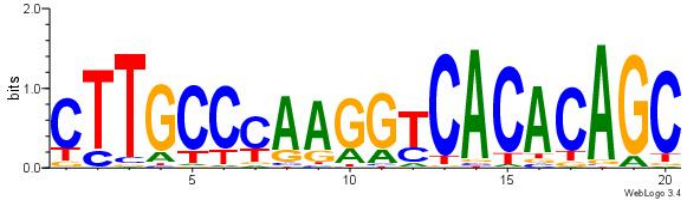

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.127338

Alignment:
GCCKCCCCGTCCGGGAGGGA
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

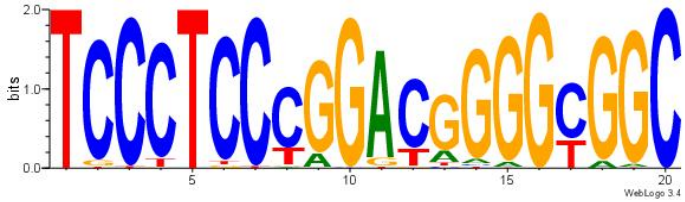

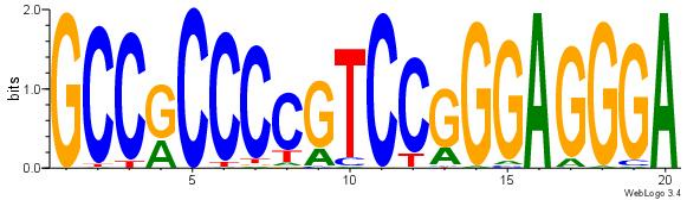

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127403

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

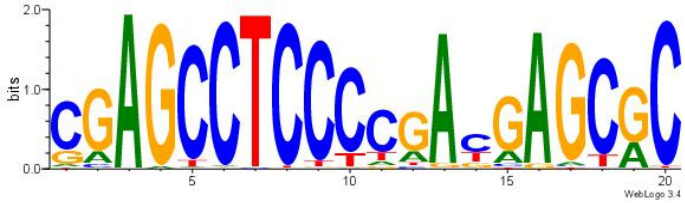

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

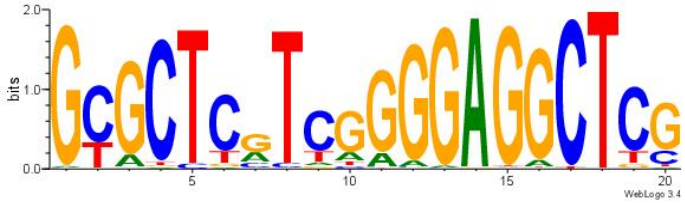

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128417

Alignment:
GCAAAKGACATGATYTCATT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

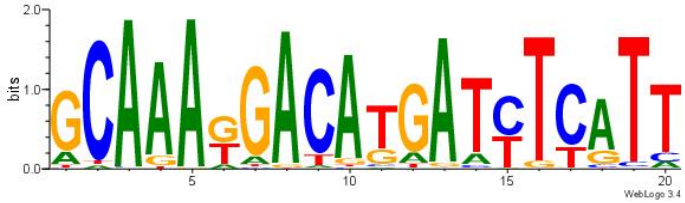

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

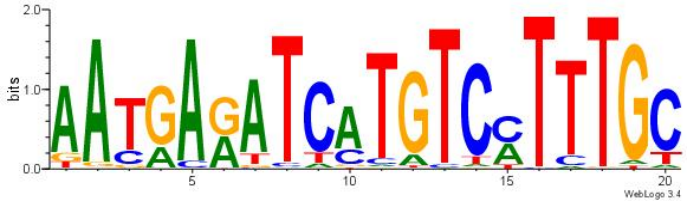

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.129562

Alignment:
CAAGGGTATAYGAGTAGCTG
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

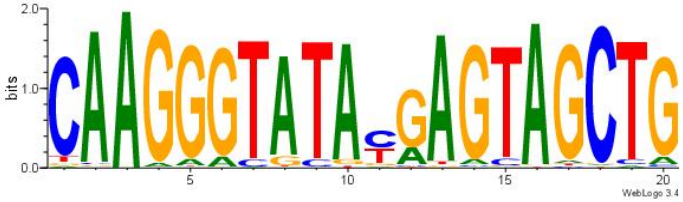

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

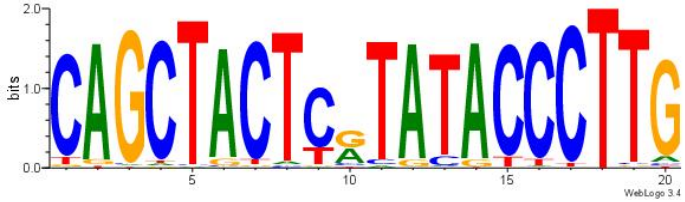

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131952

Alignment:
GCCKGGMKCMGTGGCTCAKG
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

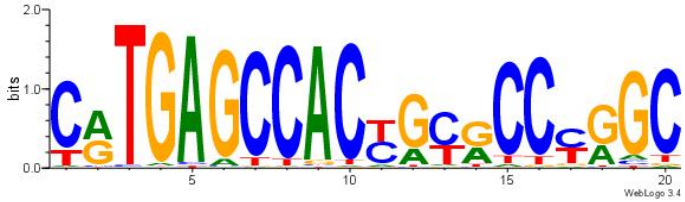

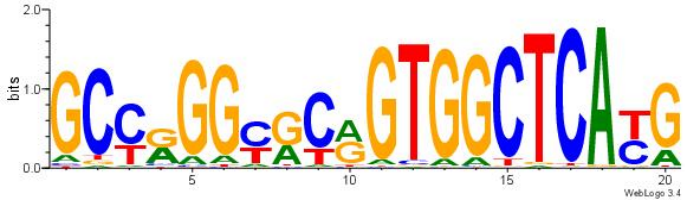

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132146

Alignment:

```
AGCCYCTGGYAACCAYYAWT
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

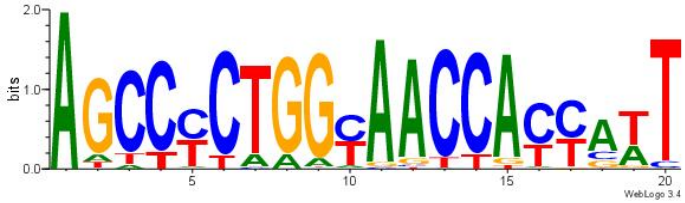

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

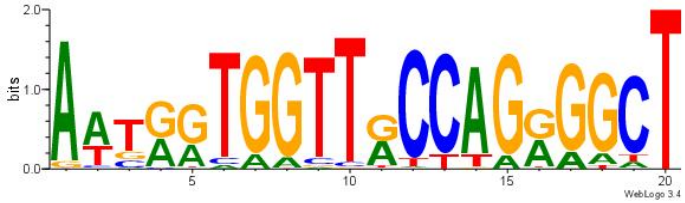

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132239

Alignment:

```
GGTTCATCTCACTAGGGAGT
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

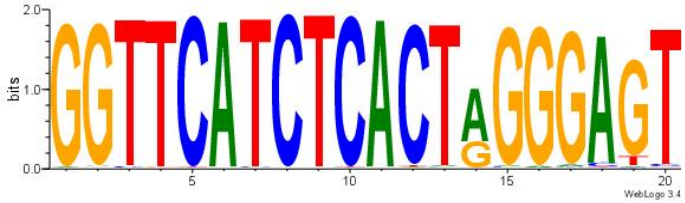

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

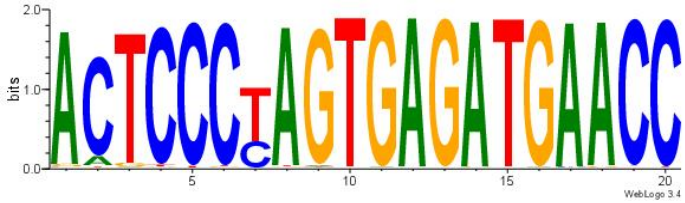

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133004

Alignment:
CGCGGCGCTTGCGGGCCAGC
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

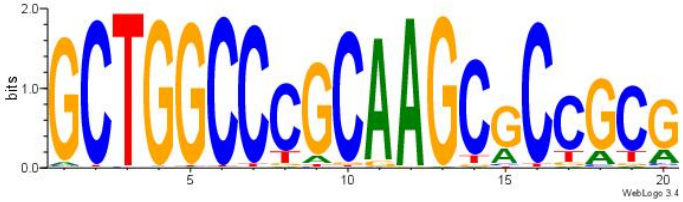

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

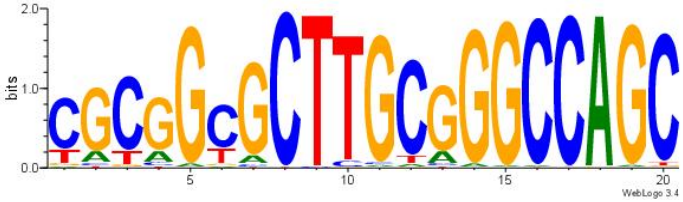

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133084

Alignment:
ATCTGACAGGAGGYRGAGCT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

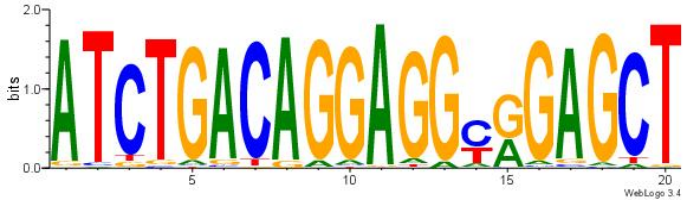

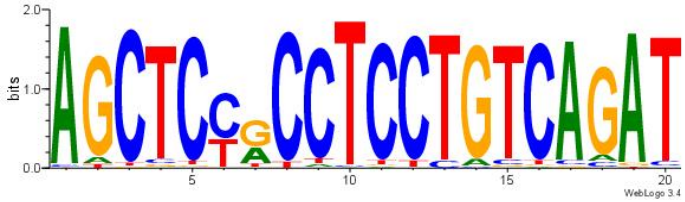

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134054

Alignment:
GAAHCAACCKAAKTGTCCAT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

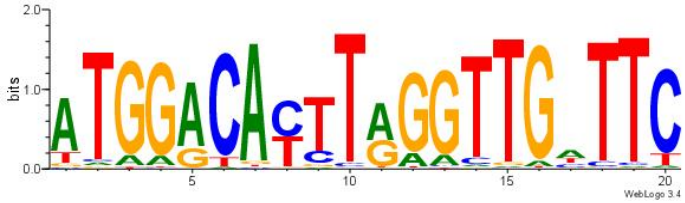

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

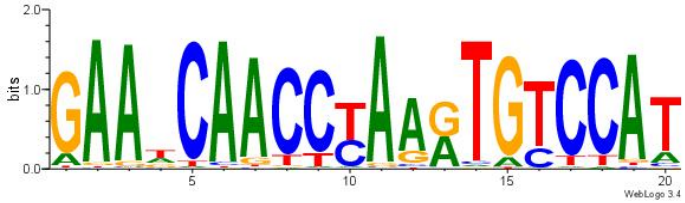

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135728

Alignment:
AAGGAACAAACTCCRGACAC
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

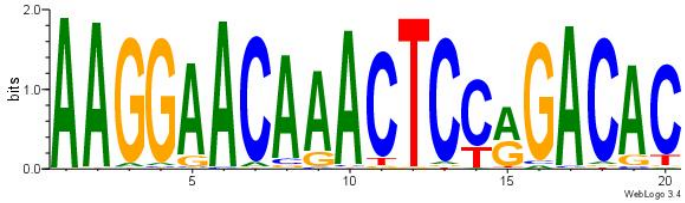

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

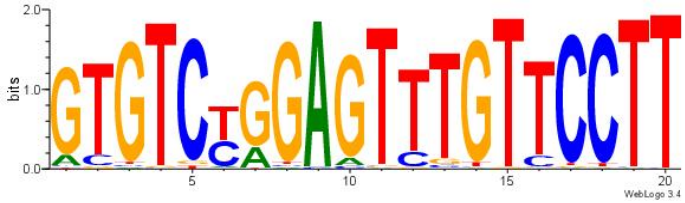

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.136247

Alignment:
GGGTCAGGGAGTTCCCTTTC
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

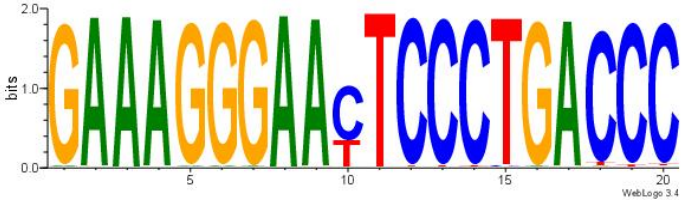

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

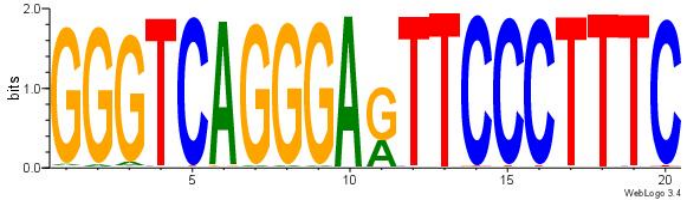

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136252

Alignment:
KCCGGGCCTTAGCTGCCTTC
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

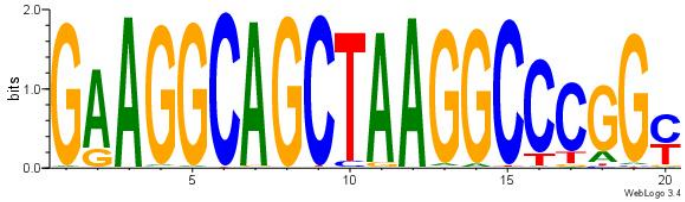

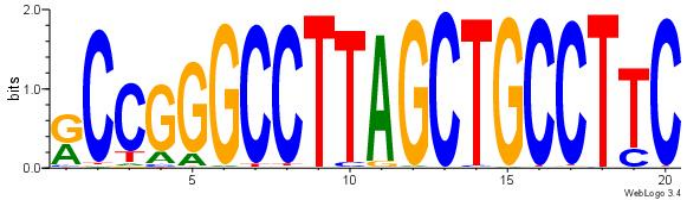

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137195

Alignment:
CCACCACAGCTCAAGGAGGC
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

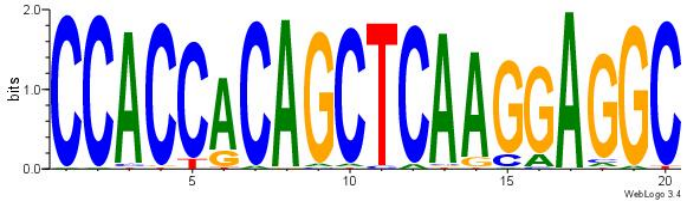

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

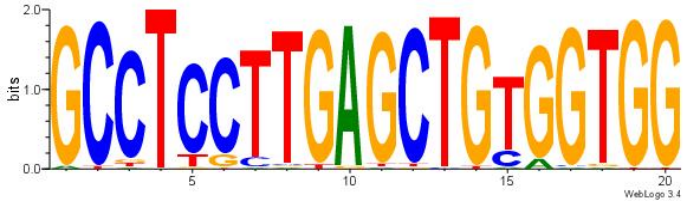

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138309

Alignment:

```
AAAATCACAAGCATTCCTAT
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

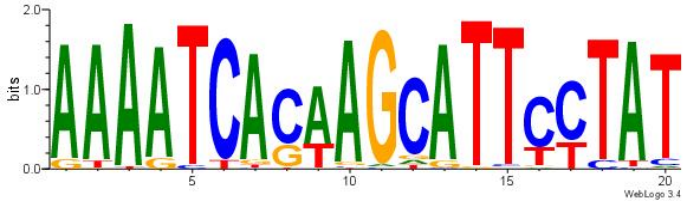

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

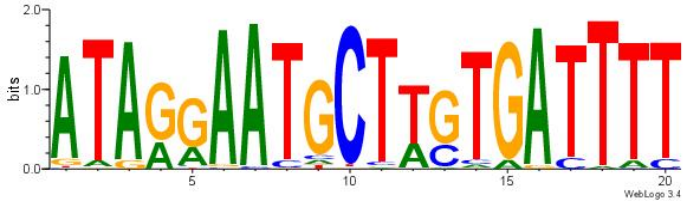

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138502

Alignment:
GCACATGTAYCCYAGAACTT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

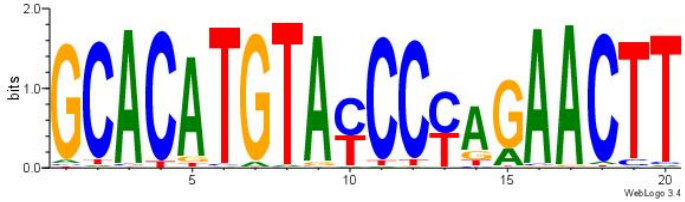

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

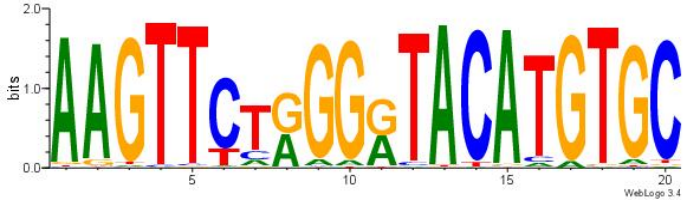

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138873

Alignment:
AACAACASACACTGGGGCCT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

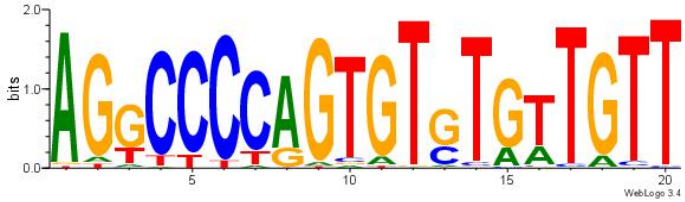

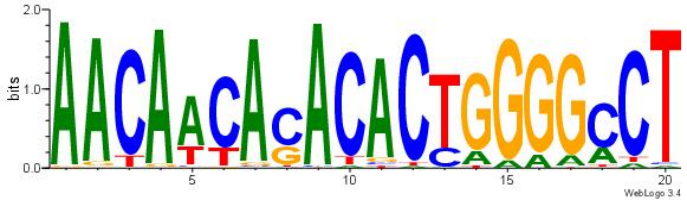

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139595

Alignment:
GGGCTCCCACAGTGCAGCGG
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

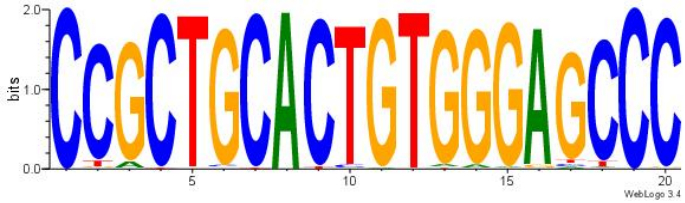

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

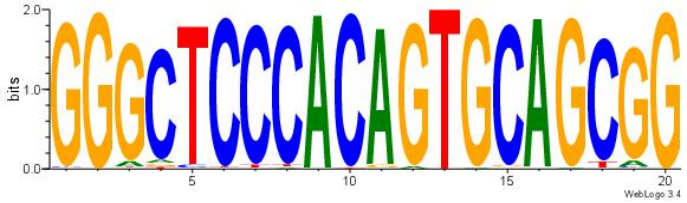

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139697

Alignment:
GTTATTAATTGGCCTAATTT
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

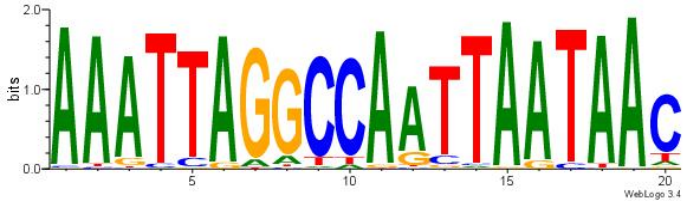

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139736

Alignment:
AAAAGTCCACAGTCCAAAGT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

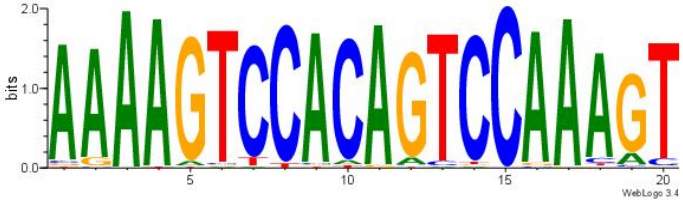

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

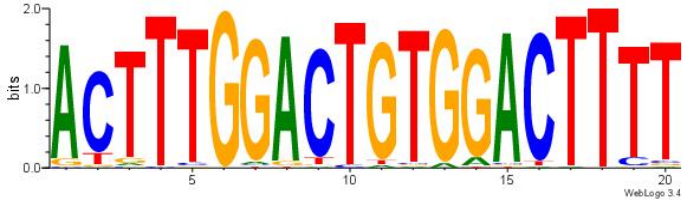

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139971

Alignment:
AGCTGTGAGAAGAGGGCCAC
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

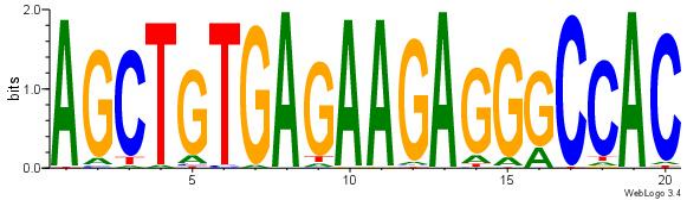

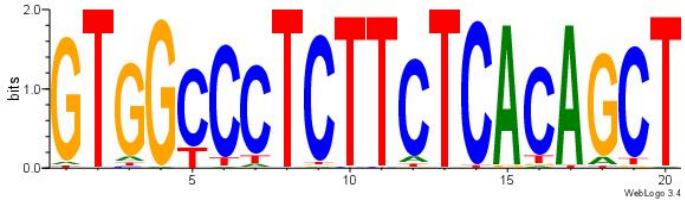

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140242

Alignment:
ACACATCACAAAGCAGTTTC
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

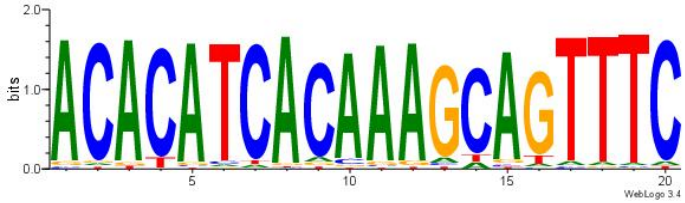

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

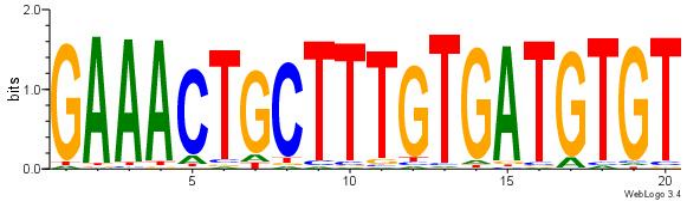

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140764

Alignment:
CAACATGGATGRARCTGGAG
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

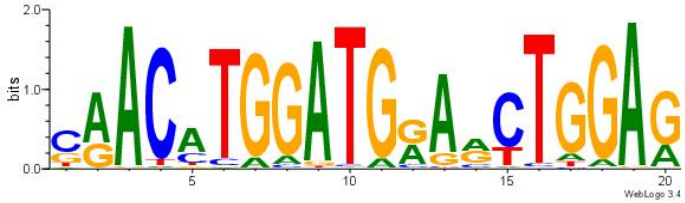

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

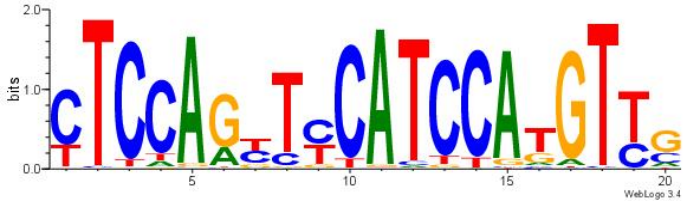

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141298

Alignment:
CATTCTGGGGTCTGGAGGAY
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

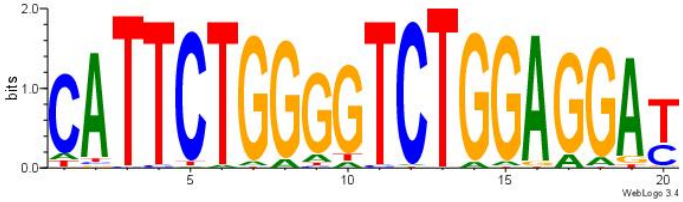

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

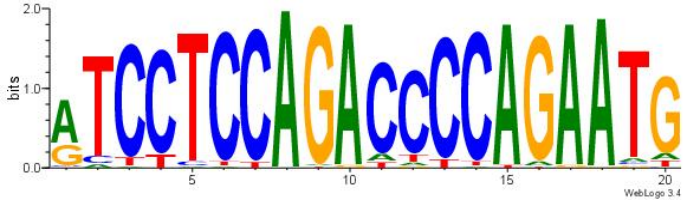

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141603

Alignment:
CCCATGCAAGTCYRAAATCC
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

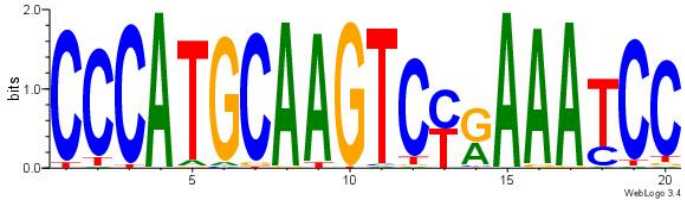

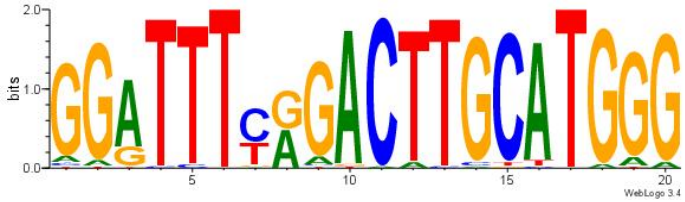

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141712

Alignment:

```
GCCTCTCCCTCCACACCTCC
TCTCTCTCTCTCTCTCTCTC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

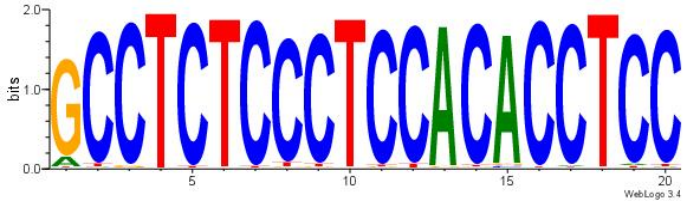

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

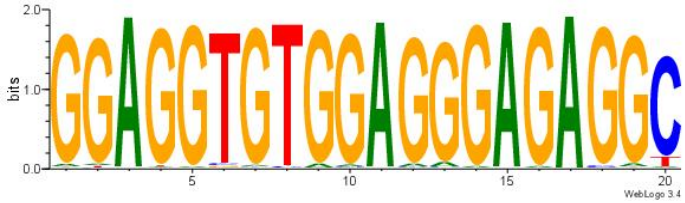

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142863

Alignment:
AAGACCTTCCAGTGGGACAA
TCTCTCTCTCTCTCTCTCTC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

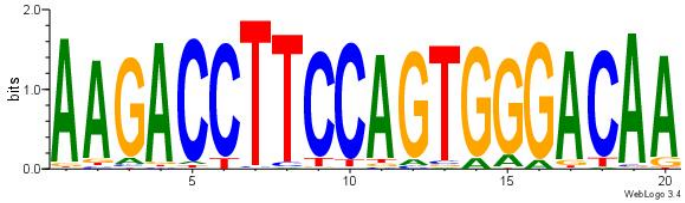

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

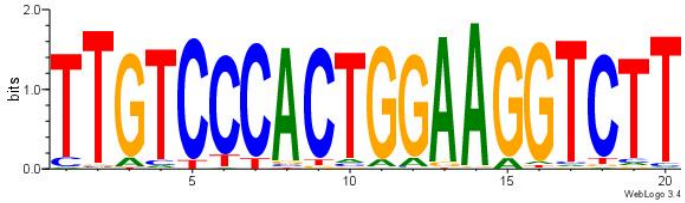

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145208

Alignment:
GACAGGAGATTAACACTGAG
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

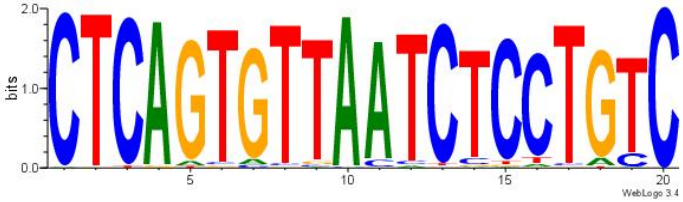

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

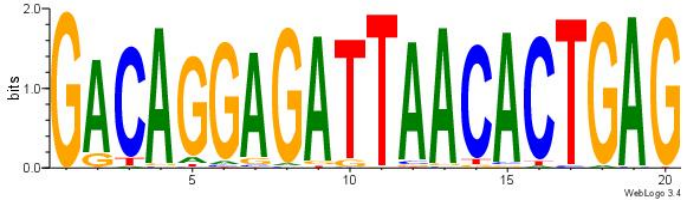

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145291

Alignment:
GTKTMTATMTACCACATTTT
GAGAGAGAGAGAGAGAGAGA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

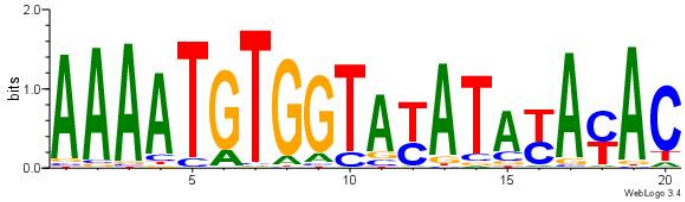

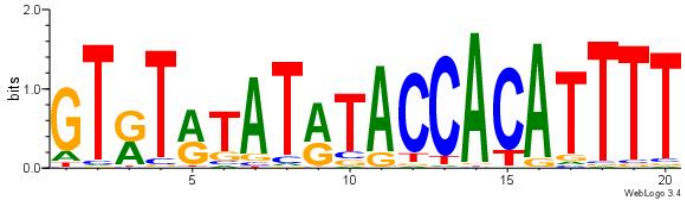

Dataset #: 1 Motif ID: 110 Motif name: Motif 110

Original motif Consensus sequence: ATGGGGTGCCA

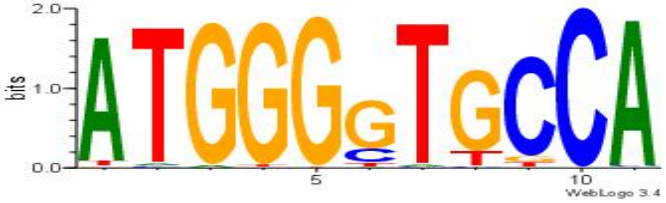

Reverse complement motif Consensus sequence: TGGCACCCCAT

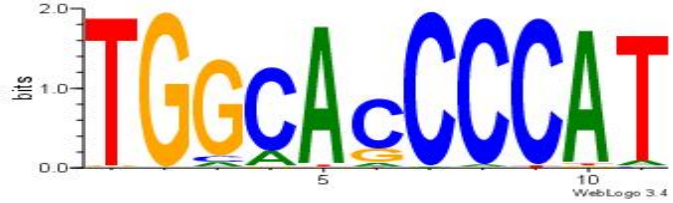

Best Matches for Motif ID 110 (Highest to Lowest)

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0371465

Alignment:

```
CATTTGGGAGCCCATTGA
----TGGCACCCCAT---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

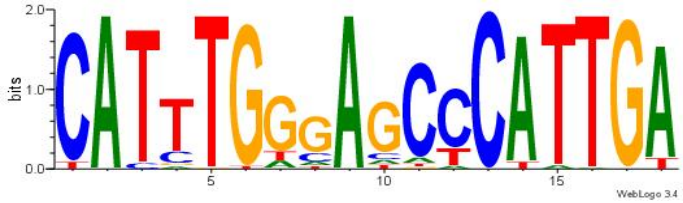

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

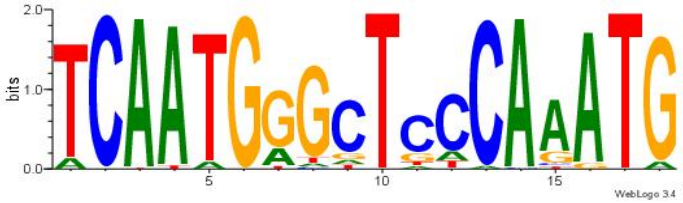

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0451831

Alignment:

```
CTGTCAGCCCAT
-TGGCACCCCAT
```

Original motif Consensus sequence: CTGTCAGCCCAT

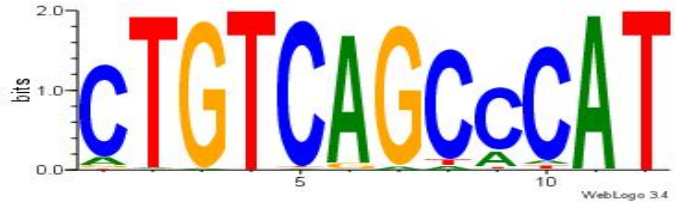

Reverse complement motif Consensus sequence: ATGGGCTGACAG

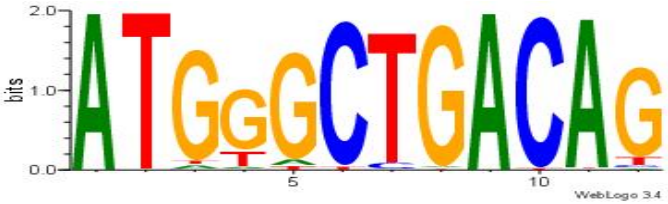

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0571751

Alignment:

```
ATACAATGGGGGTACAGRC
-----ATGGGGTGCCA---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

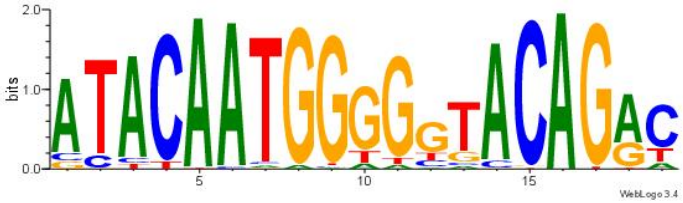

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

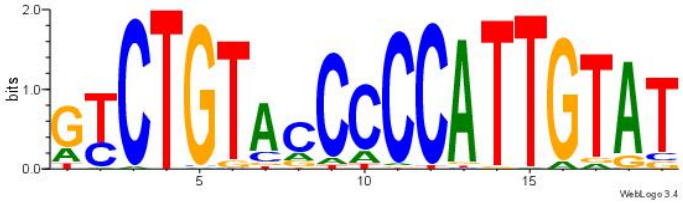

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9

Number of overlap: 11
Similarity score: 0.0710968

Alignment:
CTGGCCCTCAATGGTTAAAC
-TGGCACCCCAT--------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

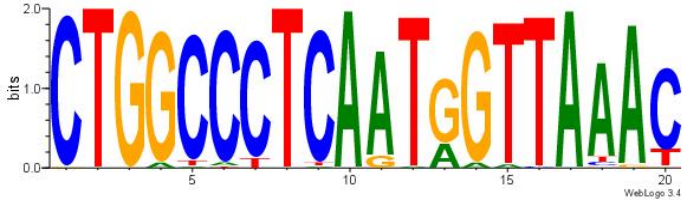

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

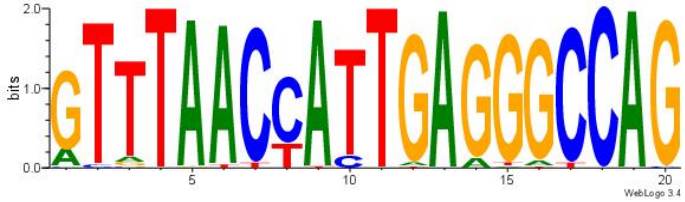

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.07764

Alignment:
GACATGAGCTGGCGCTTG
---ATGGGGTGCCA----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

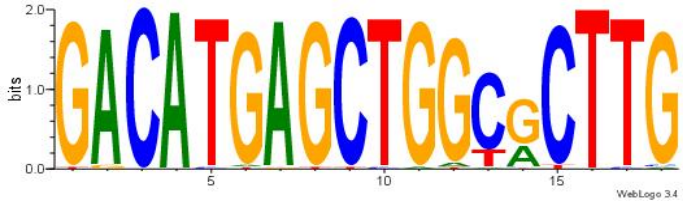

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

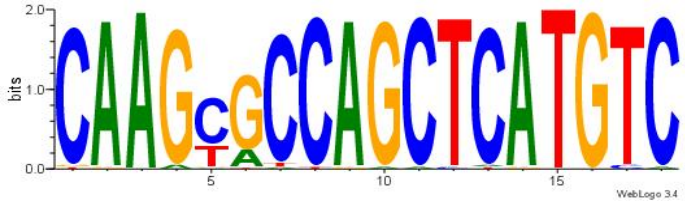

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0789723

Alignment:

```
CTTTCTGGGCTGGCCAAGG
----ATGGGGTGCCA----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

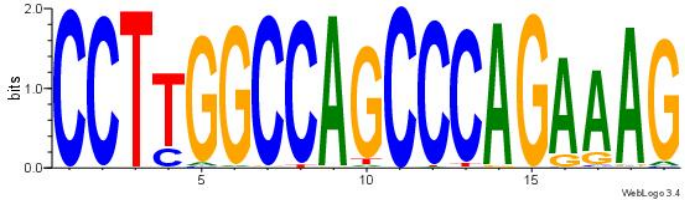

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

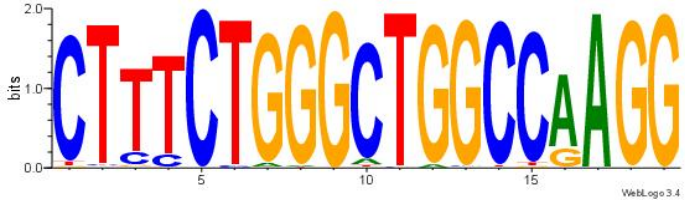

Dataset #:	1
Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0799704

Alignment:

```
CTGGGATTACA
ATGGGGTGCCA
```

Original motif Consensus sequence: CTGGGATTACA

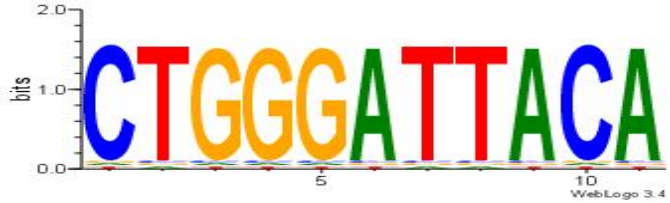

Reverse complement motif Consensus sequence: TGTAATCCCAG

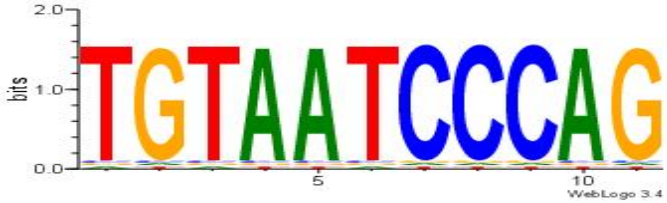

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0836005

Alignment:
CCCMKGGCACCCTCAGTCCT
----TGGCACCCCAT-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

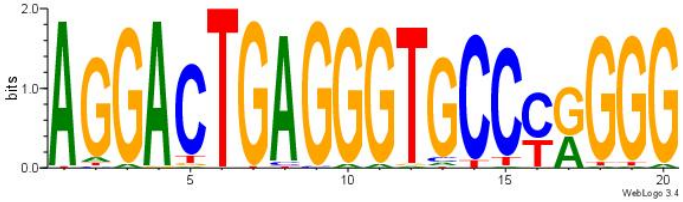

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

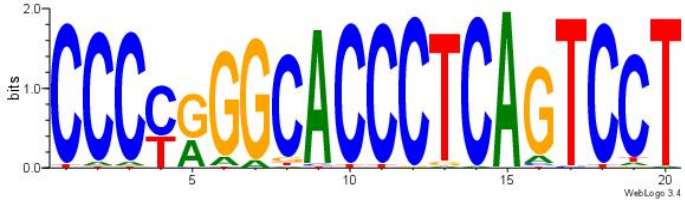

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.086569

Alignment:
TGCTGGAGGTCCACTCCAGA
--ATGGGGTGCCA-------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

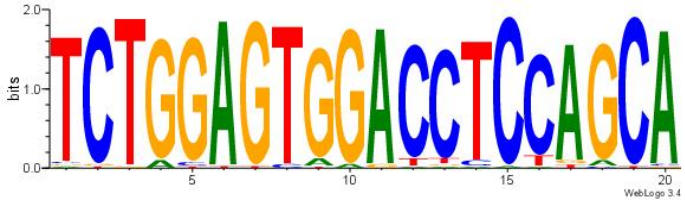

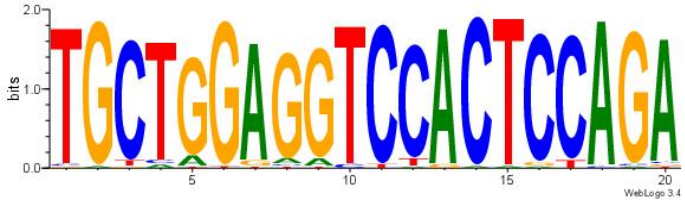

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0869782

Alignment:

```
AATCAACCCTGGYRATCAAT
---------TGGCACCCCAT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

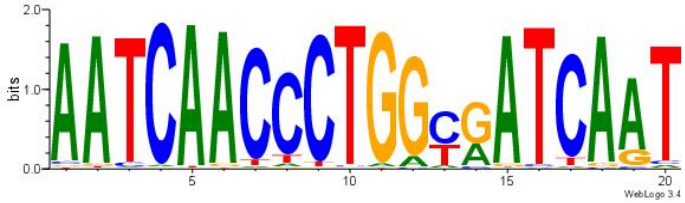

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

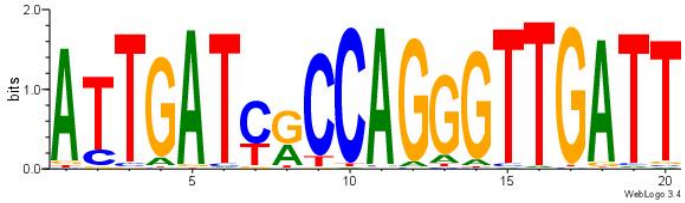

Dataset #: 1

Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0875786

Alignment:

```
CTGGGAATCCAAC
ATGGGGTGCCA--
```

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0877144

Alignment:
GAAAGGGAACTCCCTGACCC
-----TGGCACCCCAT----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

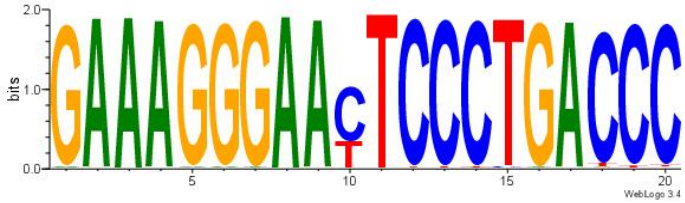

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

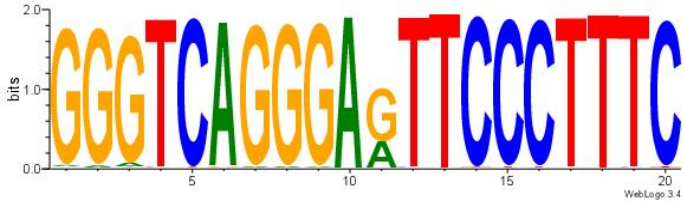

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0878384

Alignment:
AWTKKTGGTTKCCAGKGGCT
---ATGGGGTGCCA------

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

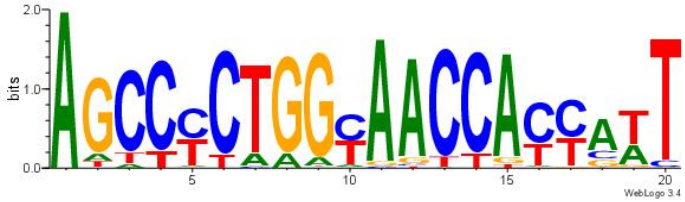

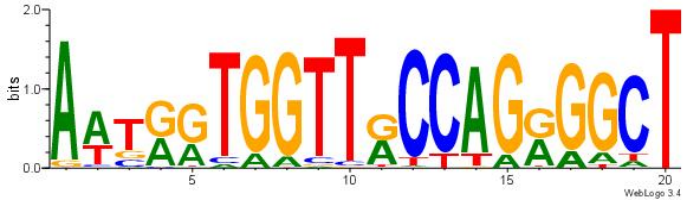

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0879317

Alignment:

```
GGTGGGGGGGTCAGCCCCC
------ATGGGGTGCCA--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

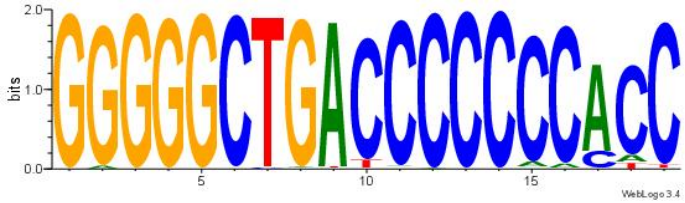

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

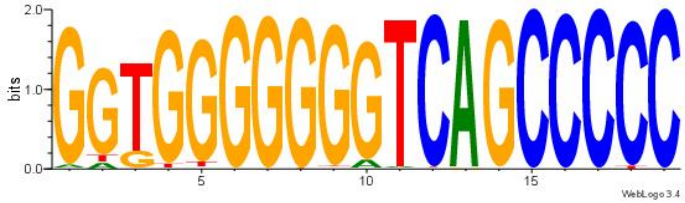

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0880255

Alignment:

```
GGCACTGCTGGGGGACCCAG
--ATGGGGTGCCA-------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

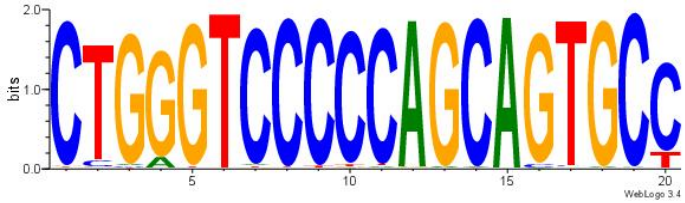

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

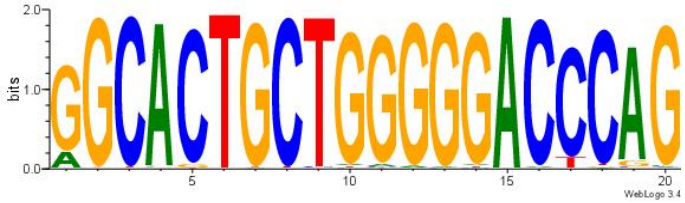

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0886251

Alignment:
TTGAGGAGGCAGTCTG
ATGGGGTGCCA-----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

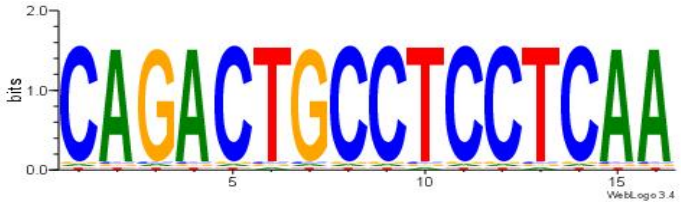

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

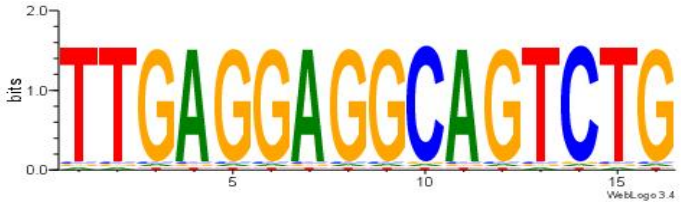

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0888797

Alignment:
GCTGGAGTGCAGTGGCRYGA
-ATGGGGTGCCA--------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

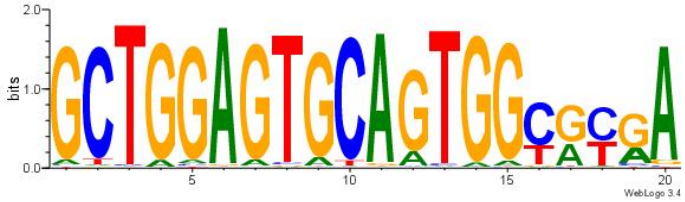

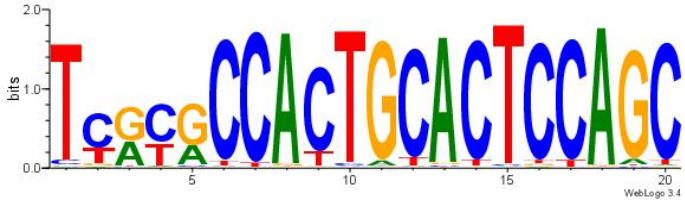

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0888799

Alignment:

```
ACAGGCTGTCCCAGGATTC
--ATGGGGTGCCA------
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

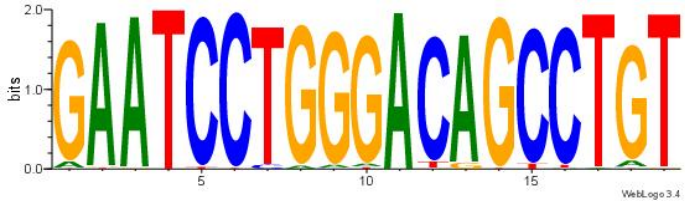

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

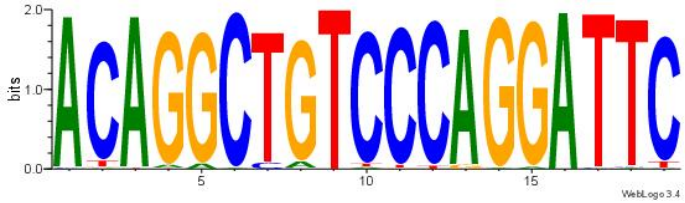

Dataset #:	1

Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0891045

Alignment:

```
ATCTGAGGTACCG
--ATGGGGTGCCA
```

Original motif Consensus sequence: ATCTGAGGTACCG

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

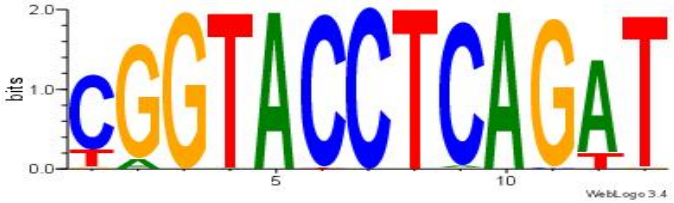

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0892255

Alignment:
CCTGTAATCCCAGC
--TGGCACCCCAT-

Original motif Consensus sequence: GCTGGGATTACAGG

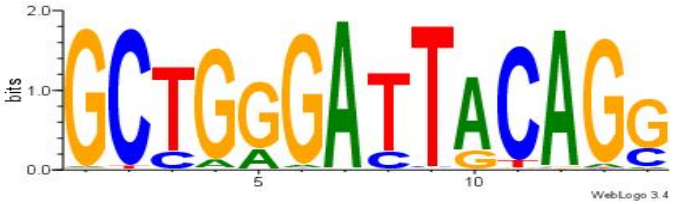

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0894491

Alignment:
GGGAGGTGTCTCCCAGTCAG
------TGGCACCCCAT---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

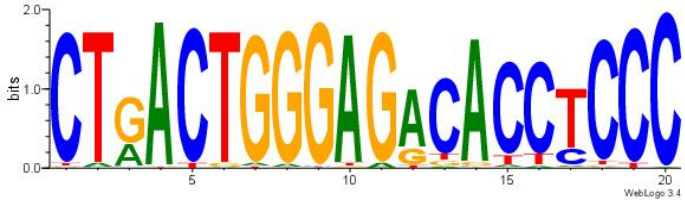

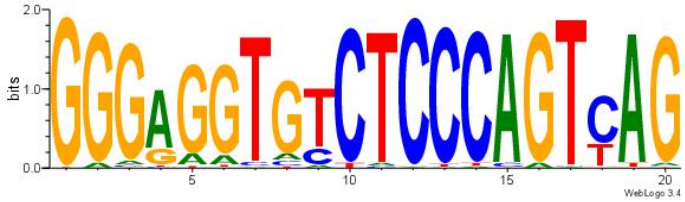

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0897991

Alignment:

```
CCTTTGACTCCATGTC
--TGGCACCCCAT---
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

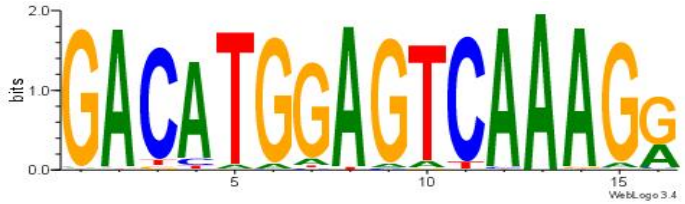

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

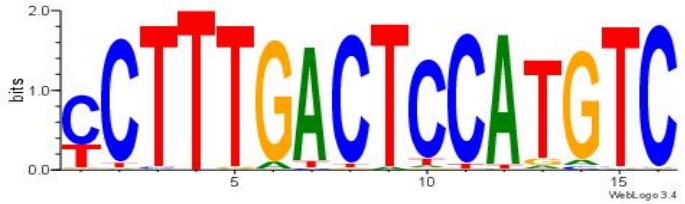

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0898598

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-------TGGCACCCCAT--
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

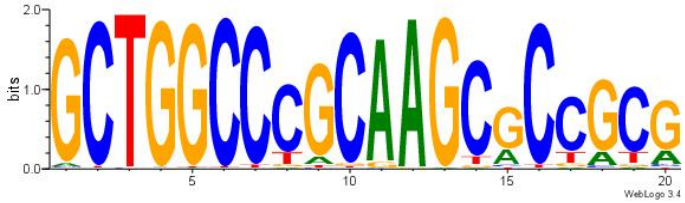

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

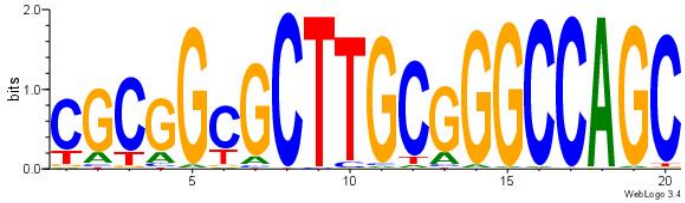

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.089867

Alignment:
ATGTGCWGTCCC
ATGGGGTGCCA-

Original motif Consensus sequence: ATGTGCWGTCCC

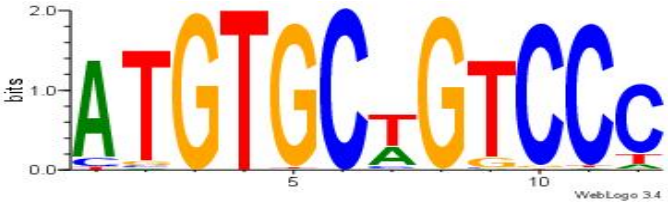

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0898815

Alignment:
CACTGCACTCCAGC
--TGGCACCCCAT-

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

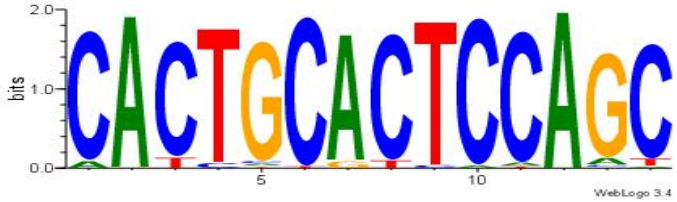

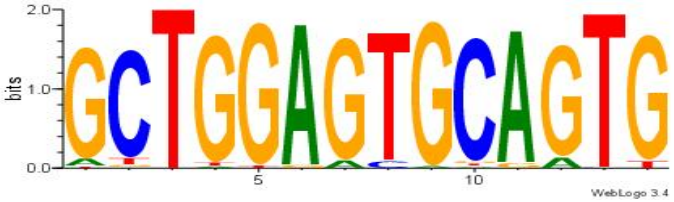

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0900089

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-----TGGCACCCCAT----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

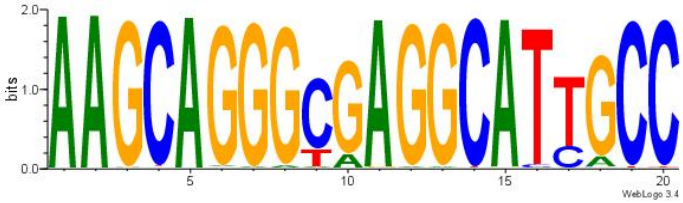

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

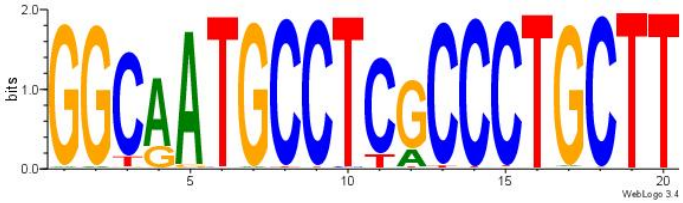

Dataset #:	1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0905089

Alignment:

```
TAAGTGGGAGCTAARC
-TGGCACCCCAT----
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

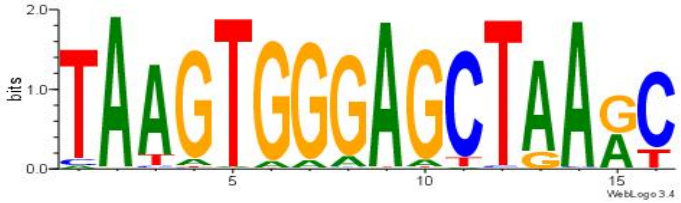

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

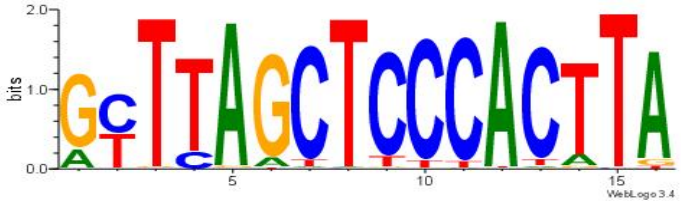

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.0905901

Alignment:
AGTGACCCGATTTTCCAGGT
TGGCACCCCAT---------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

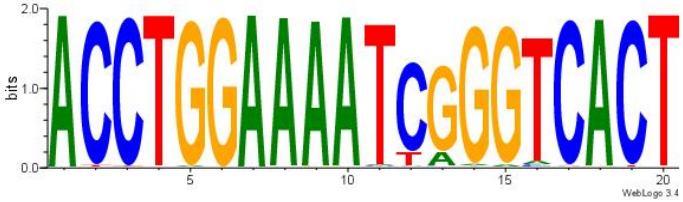

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

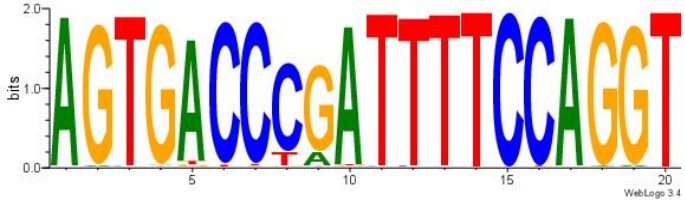

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0913278

Alignment:
ATGGCTGAATAKTATTCCAT
---------TGGCACCCCAT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

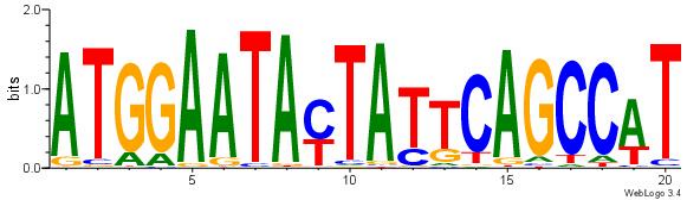

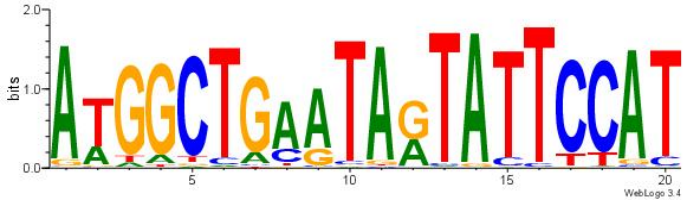

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0927799

Alignment:

```
ACATGCTACAACAT
---TGGCACCCCAT
```

Original motif Consensus sequence: ACATGCTACAACAT

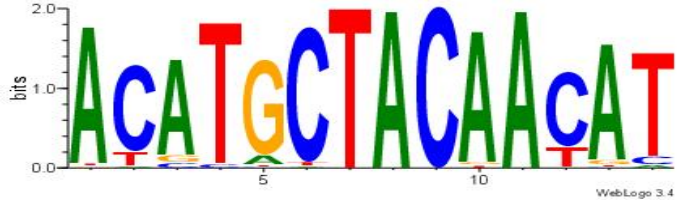

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

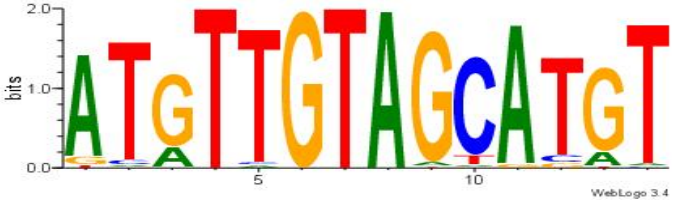

Dataset #:	1
Motif ID:	320

Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.093328

Alignment:

```
TGGGGCTCCAGATG
TGGCACCCCAT---
```

Original motif Consensus sequence: CATCTGGAGCCCCA

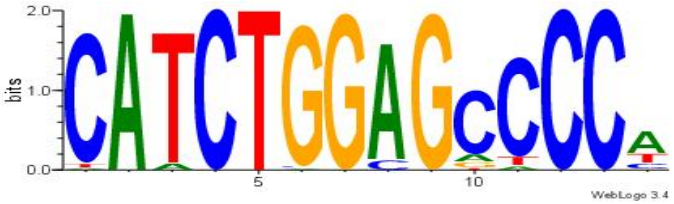

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

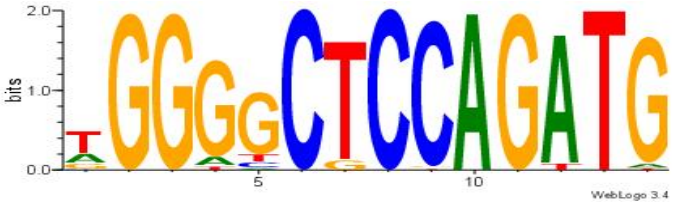

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0935869

Alignment:
GACCTGCAGCCCGCCATG
------TGGCACCCCAT-

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

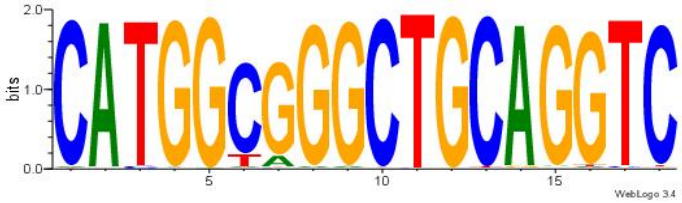

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

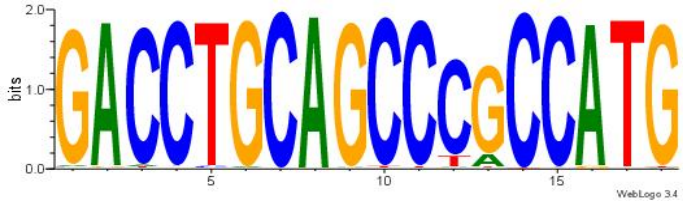

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0942332

Alignment:
TTTGTACCCATTA
-TGGCACCCCAT-

Original motif Consensus sequence: TAATGGGTACAAA

Reverse complement motif Consensus sequence: TTTGTACCCATTA

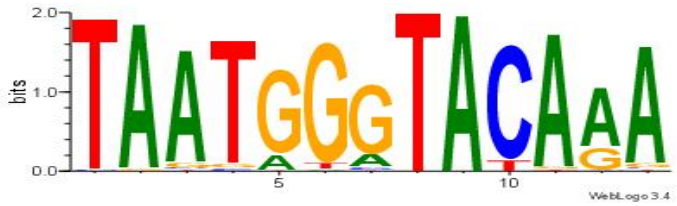

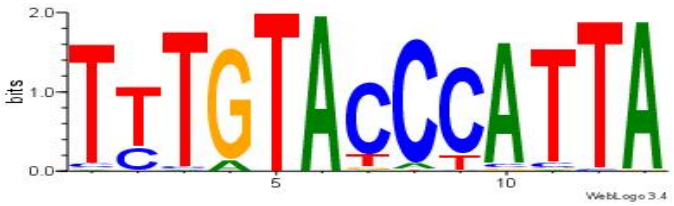

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0945182

Alignment:

```
AAGTCTCCCAATTACAACT
-TGGCACCCCAT-------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

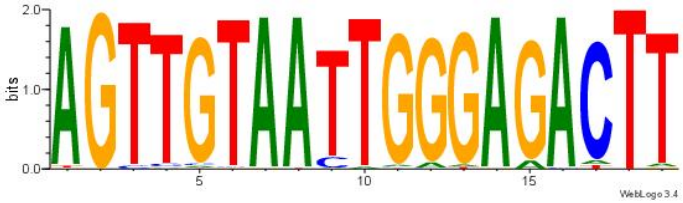

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

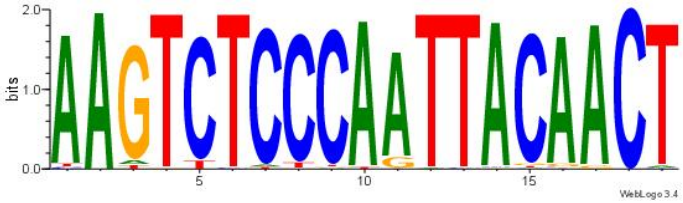

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0967701

Alignment:

```
AGAGCTCTGGCTGGCATCT
-----ATGGGGTGCCA---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

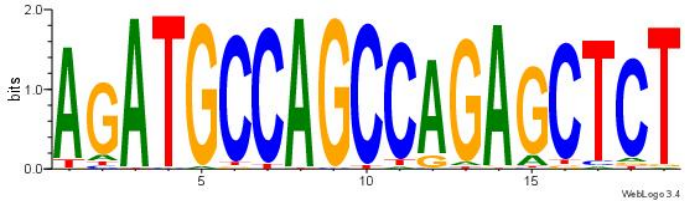

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

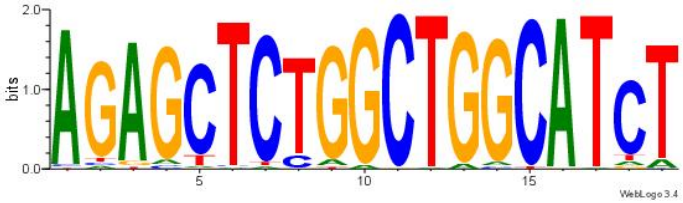

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0971634

Alignment:
CTCTTGTTGCCCAG
---TGGCACCCCAT

Original motif Consensus sequence: CTCTTGTTGCCCAG

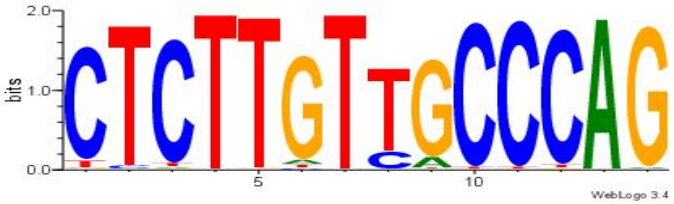

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

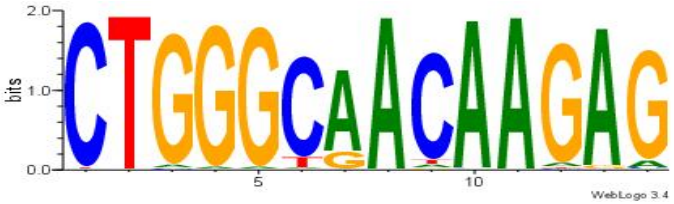

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0977105

Alignment:
CAAASCKGTCATAGGCCAT
--------TGGCACCCCAT

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

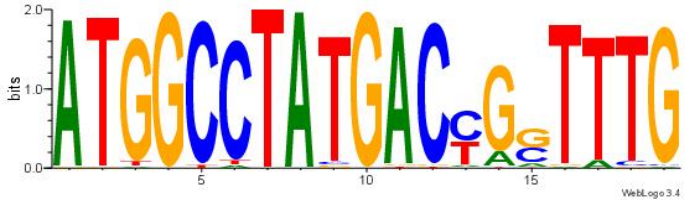

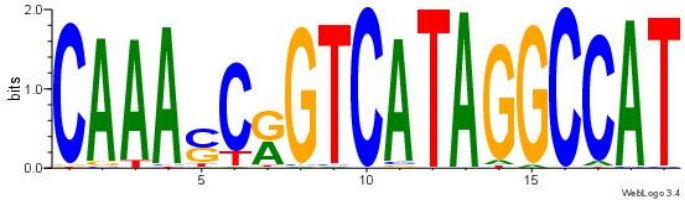

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0983624

Alignment:

```
AAGACCTTCCAGTGGGACAA
ATGGGGTGCCA---------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

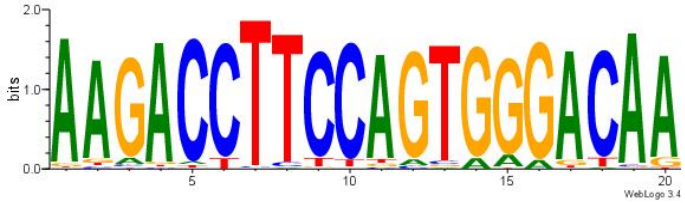

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

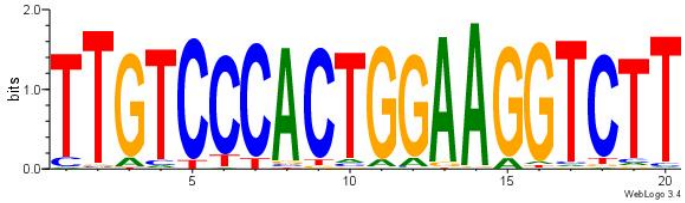

Dataset #:	1

Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0984413

Alignment:

```
GTAGCTGGGAYTACA
----ATGGGGTGCCA
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

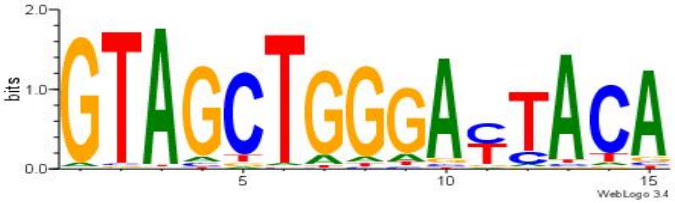

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

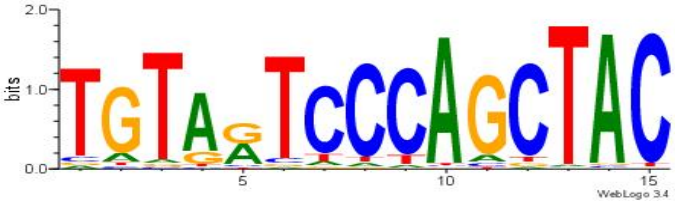

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0999824

Alignment:
ATGTAACCAAAYACCACCTG
-TGGCACCCCAT--------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

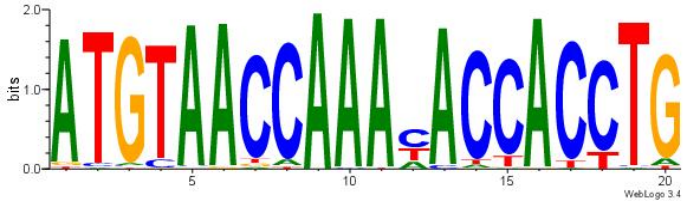

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

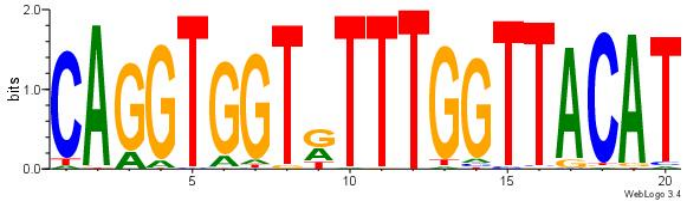

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.10025

Alignment:
GCTGGCCCKGGTGCTAAGC
---ATGGGGTGCCA-----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

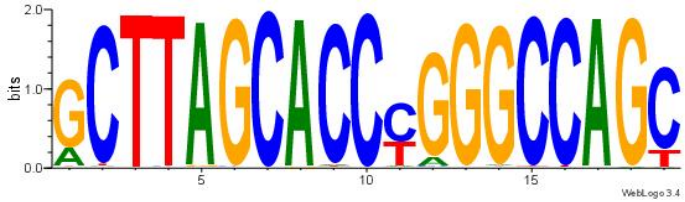

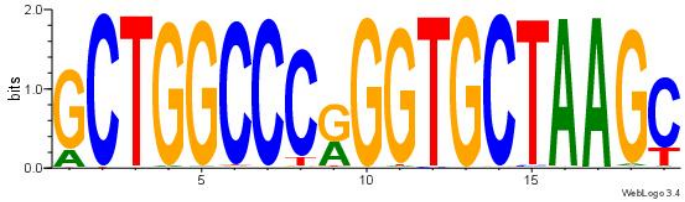

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.100344

Alignment:

```
CACCAGACTCAGGAGCCCAG
---------TGGCACCCCAT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

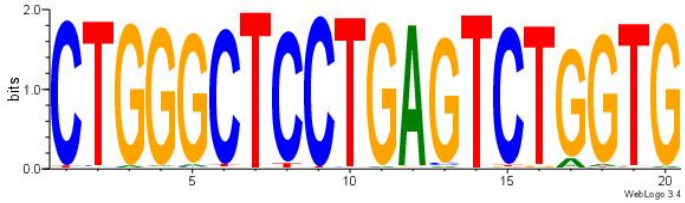

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

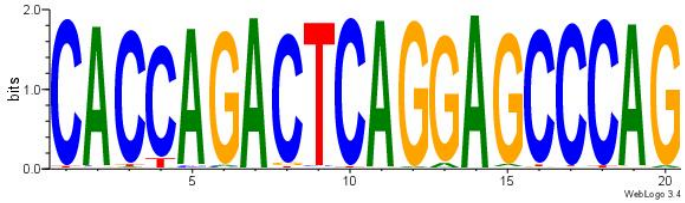

Dataset #: 1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.100968

Alignment:

```
GGGGGAGACATCACACR
-----TGGCACCCCAT-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

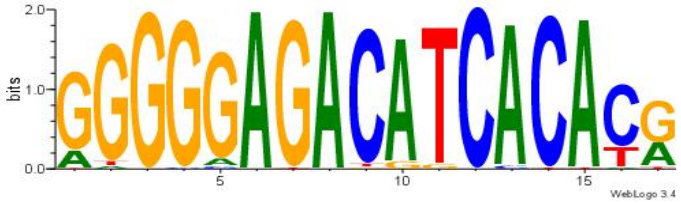

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

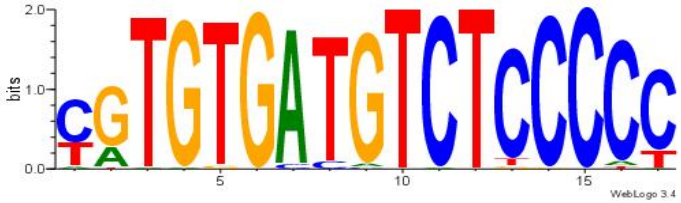

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.101421

Alignment:
GGATCCACTGGGTGAAGCCA
---------ATGGGGTGCCA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

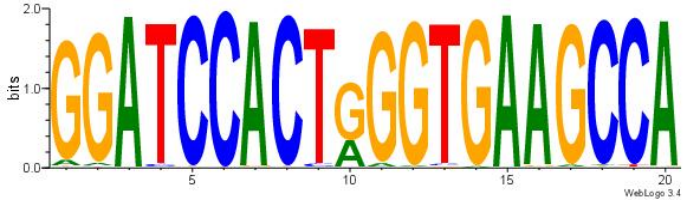

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

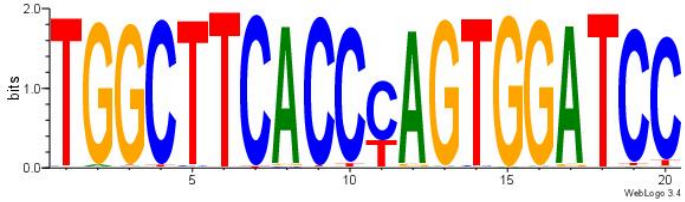

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.101827

Alignment:
GGTGGAGCTGCCTGCCAGTC
--------TGGCACCCCAT-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

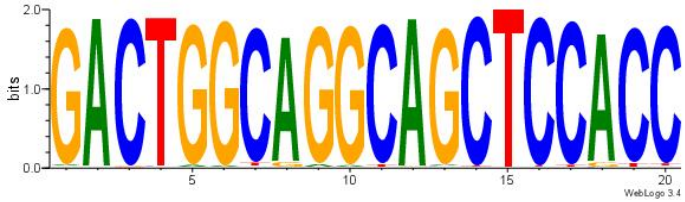

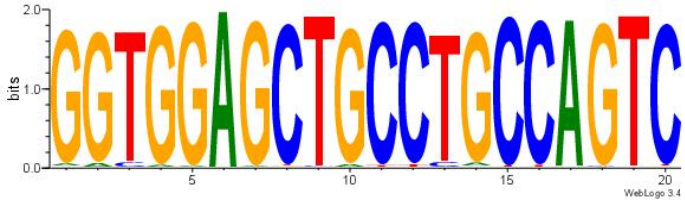

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.102238

Alignment:

```
CAAGTTGACACATAAAATTA
-----TGGCACCCCAT----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

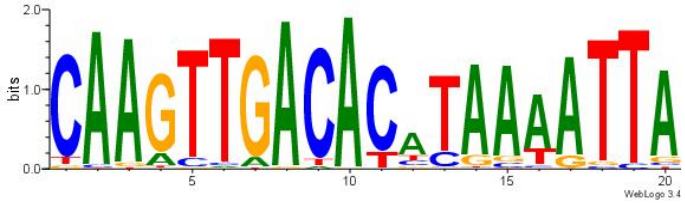

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

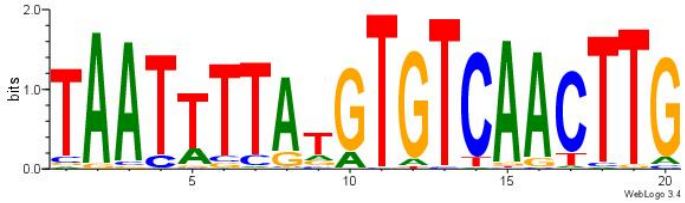

Dataset #: 1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.102286

Alignment:

```
GAAATTGACTTCCTCCT
---ATGGGGTGCCA---
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

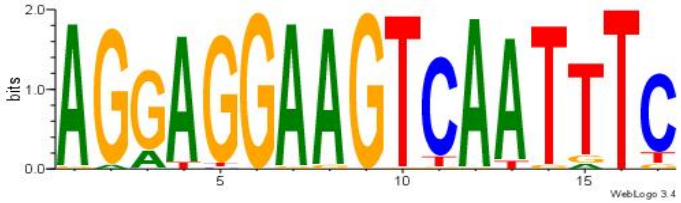

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

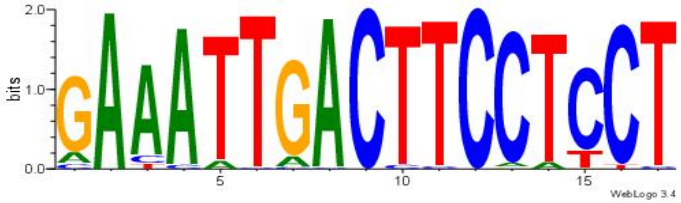

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.102359

Alignment:
ACTGTCTTCCACCTCCACAT
ATGGGGTGCCA---------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

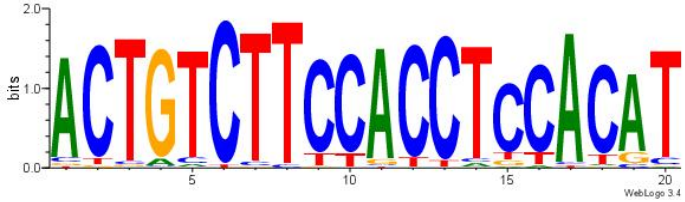

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

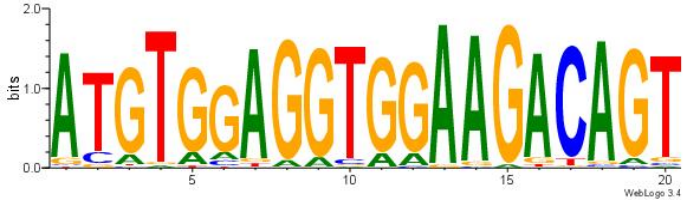

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.102617

Alignment:
CAAAGTCTTAACTCATT
-----TGGCACCCCAT-

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

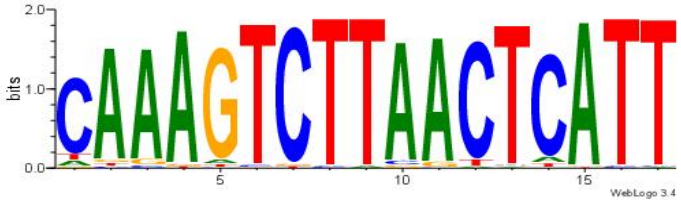

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.102909

Alignment:

```
RRCCGCTCCATG
TGGCACCCCAT-
```

Original motif Consensus sequence: CATGGAGCGGKK

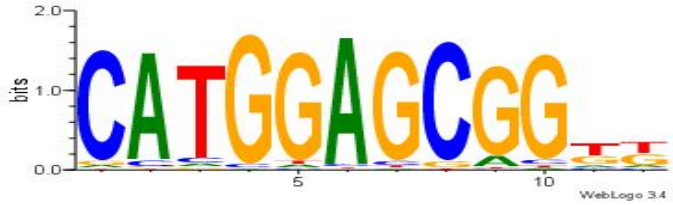

Reverse complement motif Consensus sequence: RRCCGCTCCATG

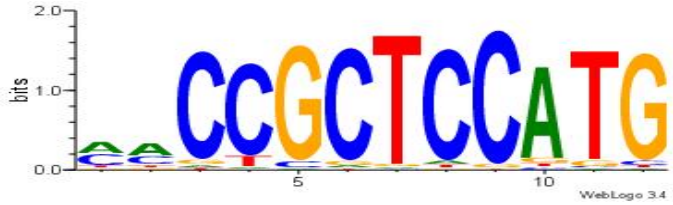

Dataset #: 1 Motif ID: 111 Motif name: Motif 111

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

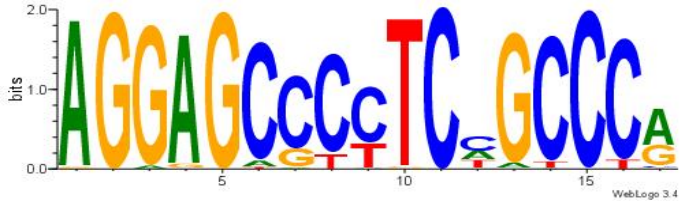

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Best Matches for Motif ID 111 (Highest to Lowest)

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0374525

Alignment:

```
AGGAGCGCCTCTKCCCGGC
AGGAGCCCCTCHGCCCR--
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

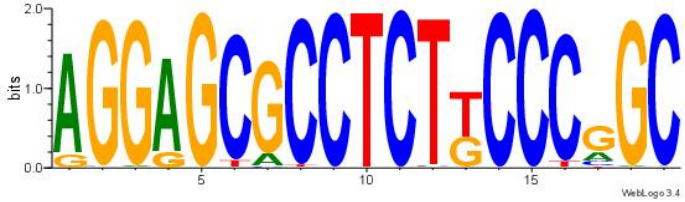

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

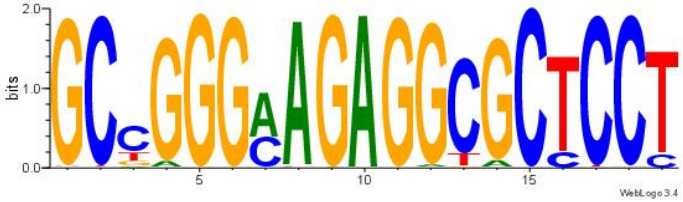

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0498697

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--AGGAGCCCCTCHGCCCR
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

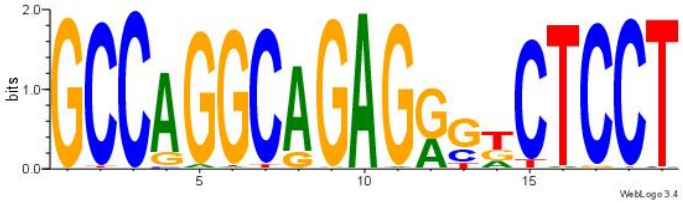

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

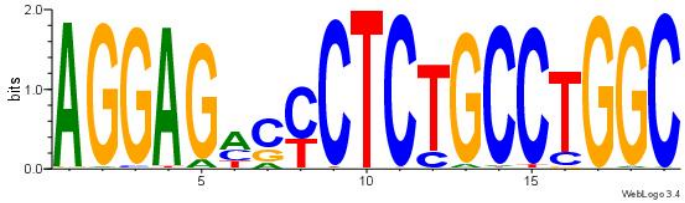

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number:	1
Number of overlap:	17
Similarity score:	0.0589885

Alignment:
AGGASCSTCYSWGCCMGGY
AGGAGCCCCTCHGCCCR--

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

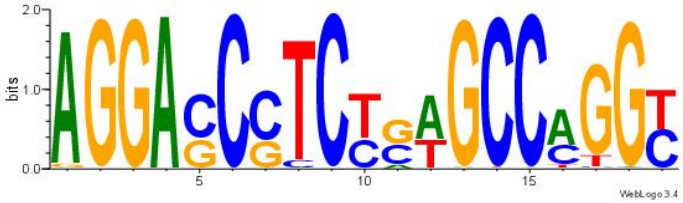

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

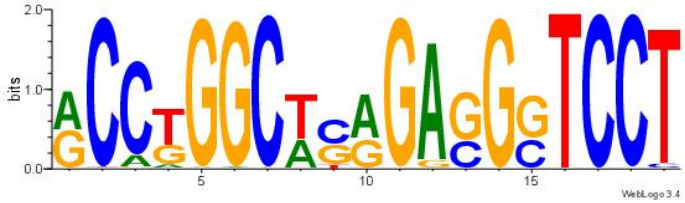

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0794456

Alignment:
CRTGAGCCACYGYRCCYGGC
-AGGAGCCCCTCHGCCCR--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

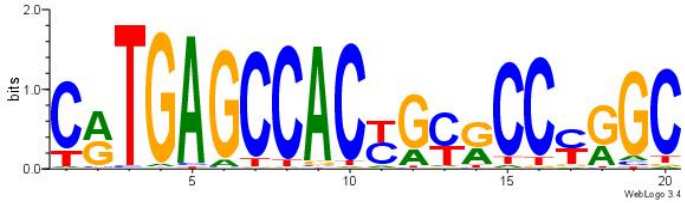

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

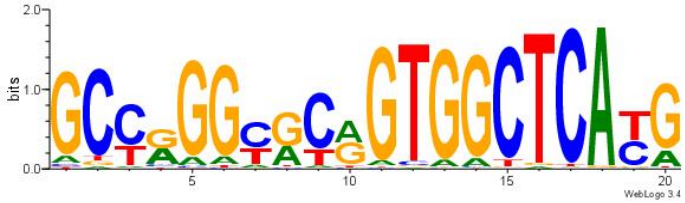

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0976585

Alignment:

```
AGGAACAGCTCCRGTCTAC
AGGAGCCCCTCHGCCCR--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

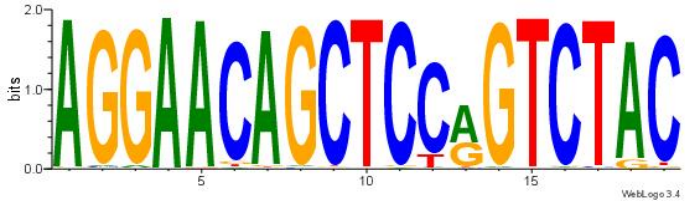

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

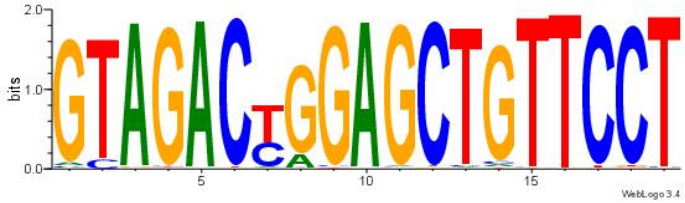

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0986204

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---AGGAGCCCCTCHGCCCR
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

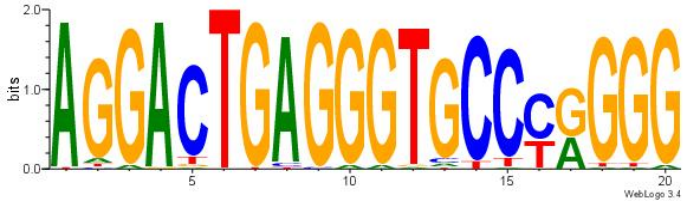

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

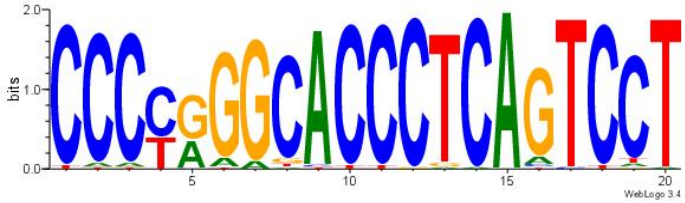

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.103013

Alignment:
GGGTGCAGGMGGGCTGAGT
-KGGGCDGAGGGGCTCCT-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

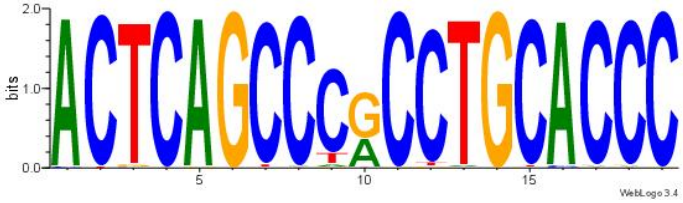

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

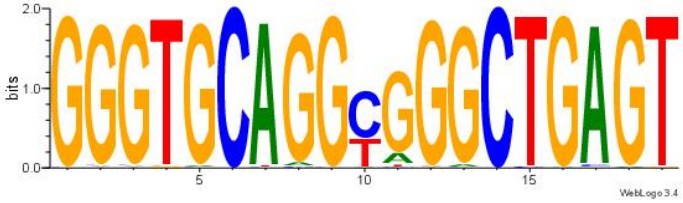

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.103804

Alignment:
GGTGGGGGGGTCAGCCCCC
--KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

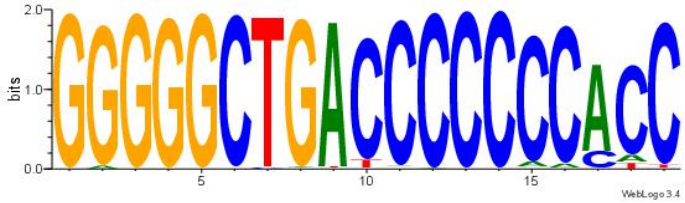

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

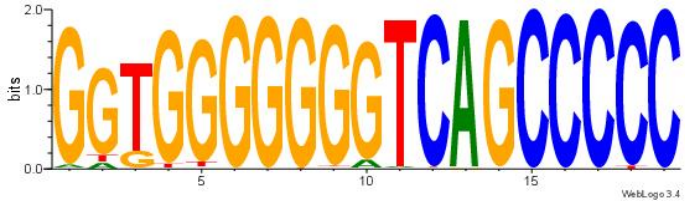

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.10673

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
KGGGCDGAGGGGCTCCT---
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

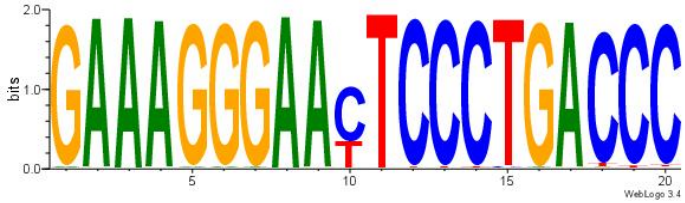

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

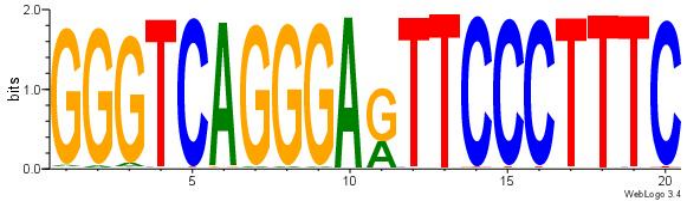

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.10902

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--AGGAGCCCCTCHGCCCR-
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

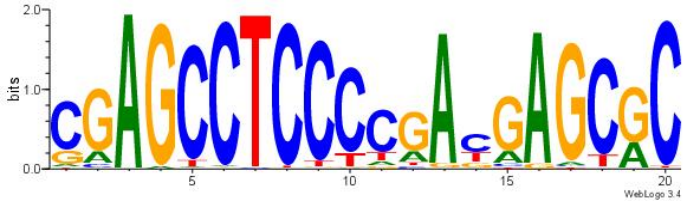

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

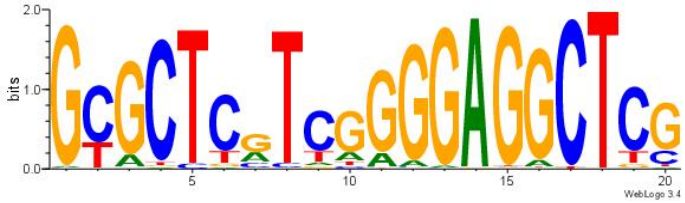

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.110305

Alignment:
GAAHCAACCKAAKTGTCCAT
-AGGAGCCCCTCHGCCCR--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

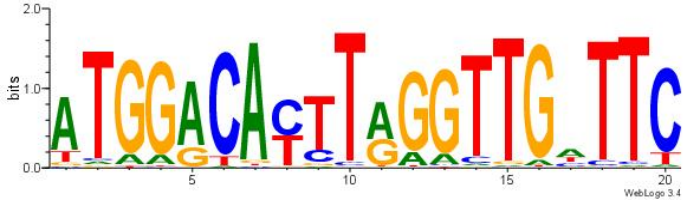

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

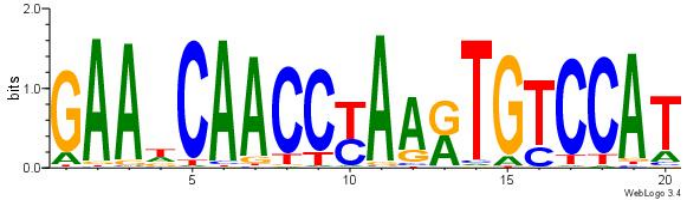

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.111365

Alignment:
ATCTGACAGGAGGYRGAGCT
---KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

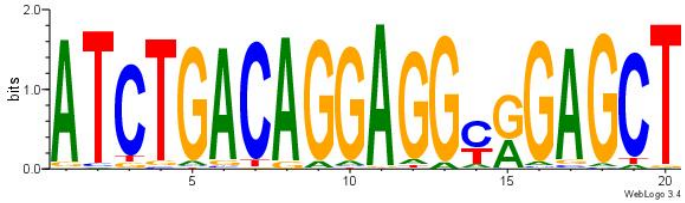

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

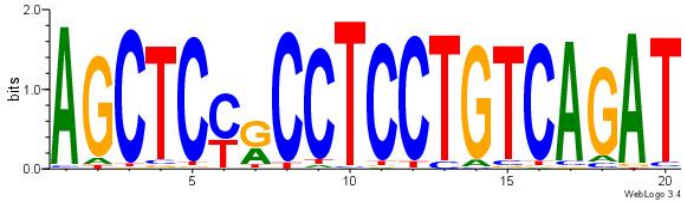

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.114019

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
---AGGAGCCCCTCHGCCCR
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

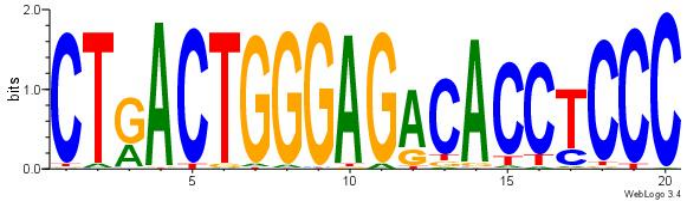

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

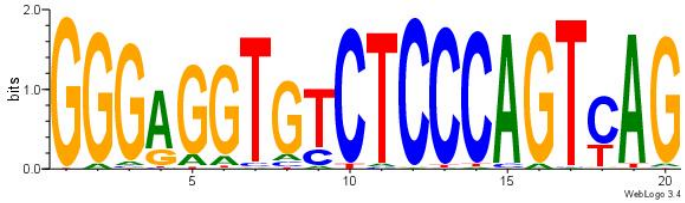

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.114347

Alignment:

```
CTGAGGACCTGAGGTCRTA
AGGAGCCCCTCHGCCCR--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

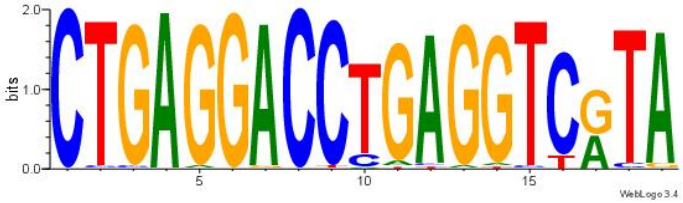

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

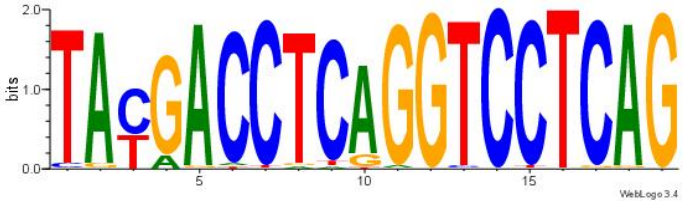

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.11456

Alignment:
HAGTGGKATTGCTGGATCAT
---KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

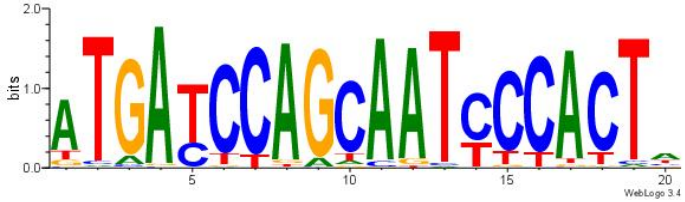

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

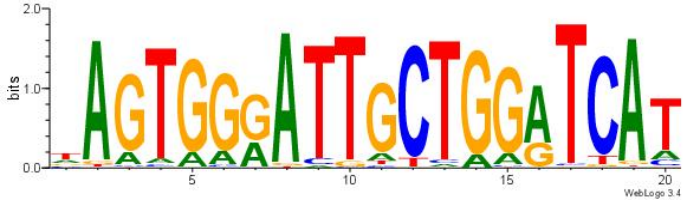

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.114834

Alignment:
CAAGGGTATAYGAGTAGCTG
--KGGGCDGAGGGGCTCCT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

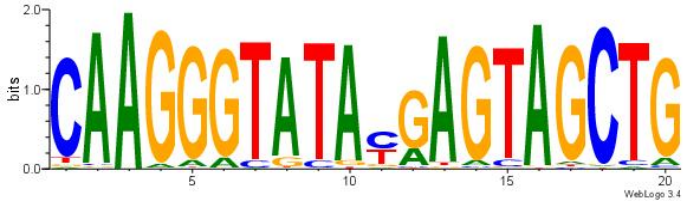

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

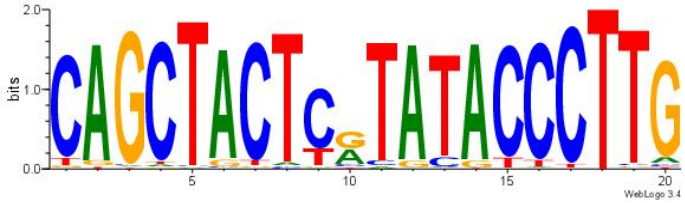

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.114856

Alignment:

```
TCTGGAGTGGACCTCCAGCA
KGGGCDGAGGGGCTCCT---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

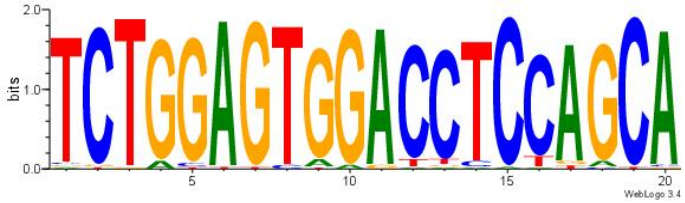

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

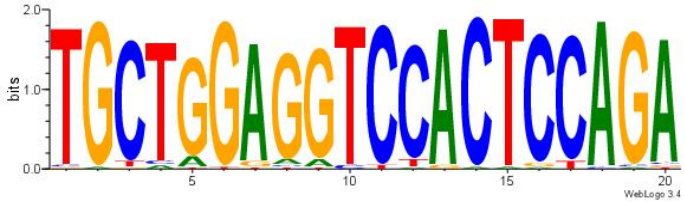

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.115012

Alignment:
TGGATGGATGGATGGAT
KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: ATCCATCCATCCATCCA

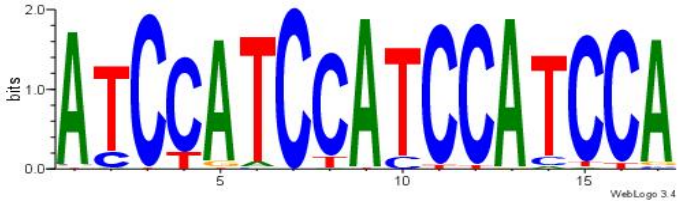

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.115535

Alignment:
CTGGGCTCCTGAGTCTGGTG
AGGAGCCCCTCHGCCCR---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

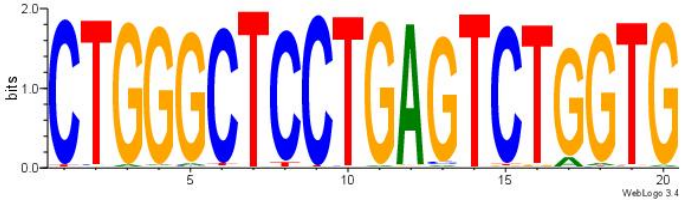

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

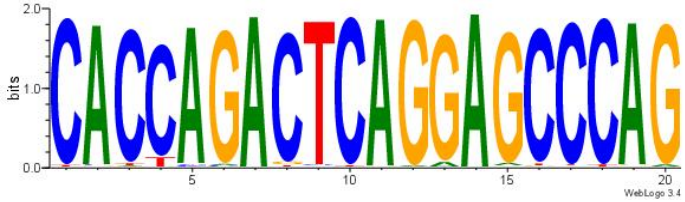

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.117546

Alignment:
AGTAGGTGCTCARTAAATRB
AGGAGCCCCTCHGCCCR---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

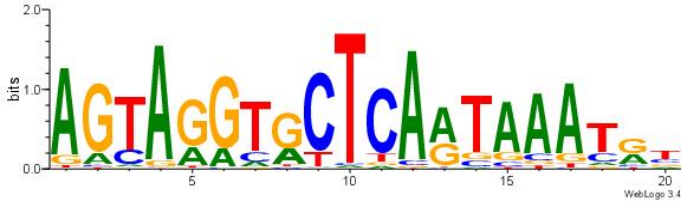

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

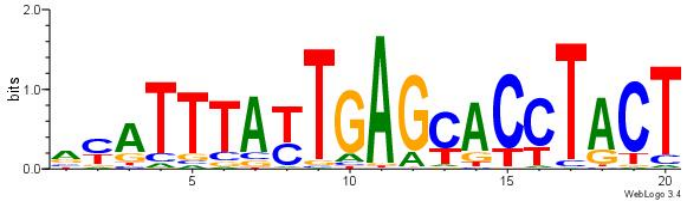

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.118392

Alignment:

```
GCTTAGCACCYGGGCCAGC
-AGGAGCCCCTCHGCCCR-
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

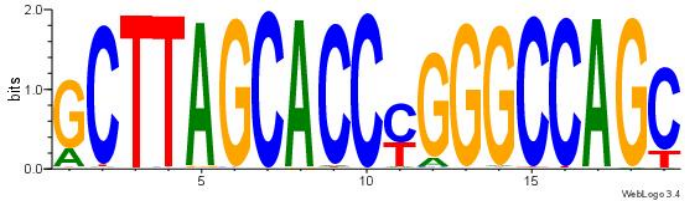

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

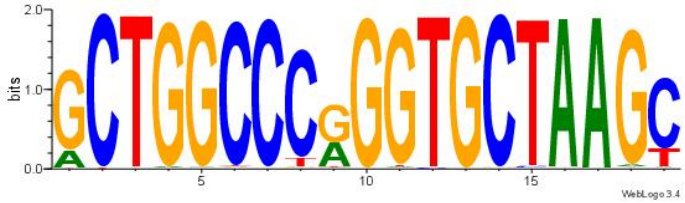

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.118835

Alignment:

```
AATCAACCCTGGYRATCAAT
-AGGAGCCCCTCHGCCCR--
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

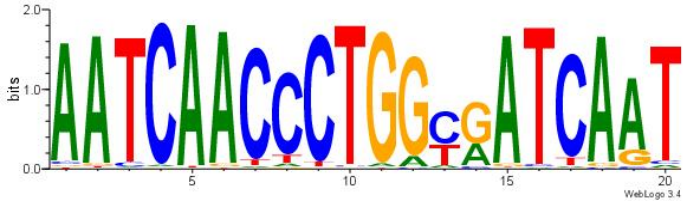

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

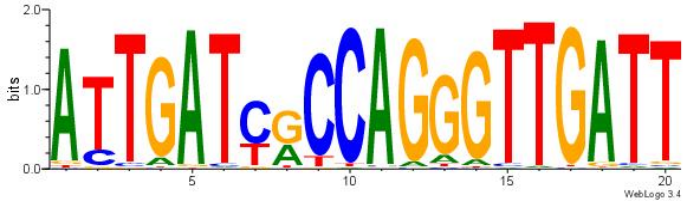

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.119021

Alignment:
GCTGGAGTGCAGTGGCRYGA
--AGGAGCCCCTCHGCCCR-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

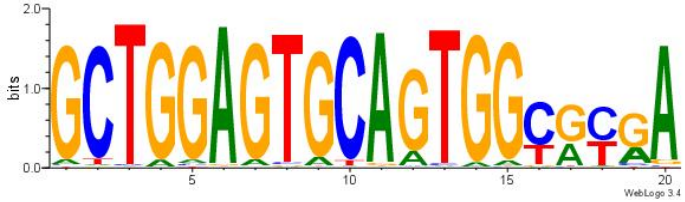

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

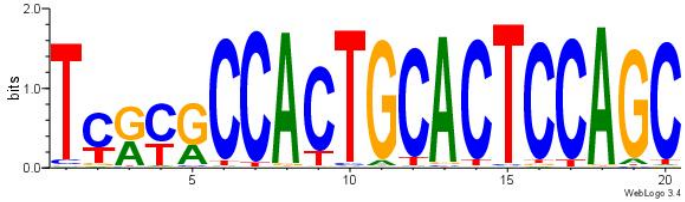

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.119874

Alignment:
AGAGCTCTGGCTGGCATCT
--KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

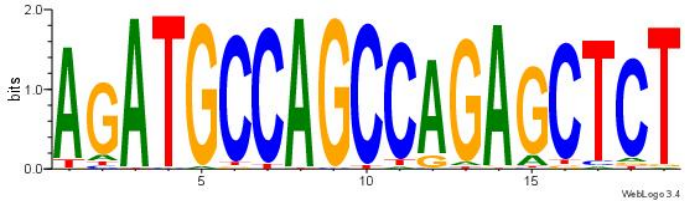

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

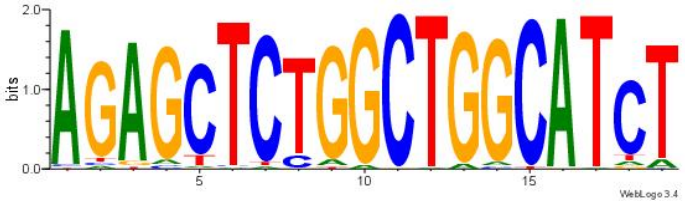

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.120066

Alignment:

```
AAGCAGGGCGAGGCATTGCC
KGGGCDGAGGGGCTCCT---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

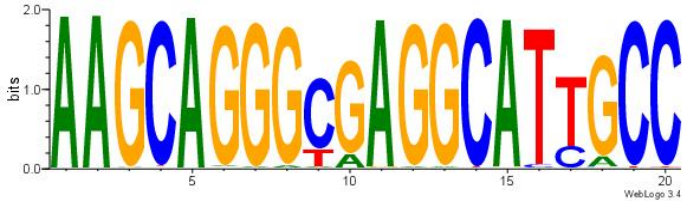

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

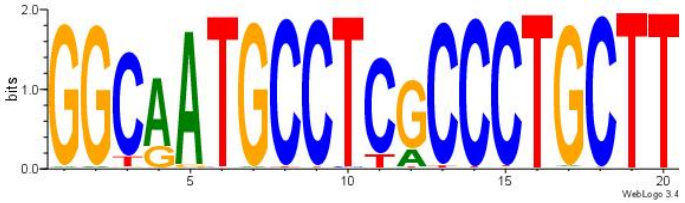

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.120726

Alignment:

```
AAGGAACAAACTCCRGACAC
--AGGAGCCCCTCHGCCCR-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

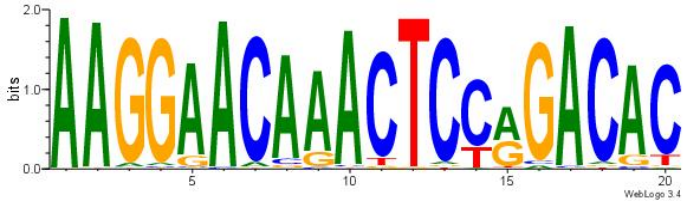

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

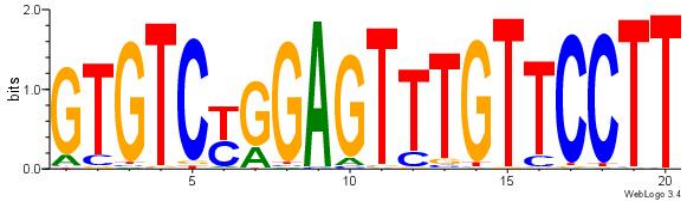

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.122297

Alignment:
ACTTTGGACTGTGGACTTTT
---KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

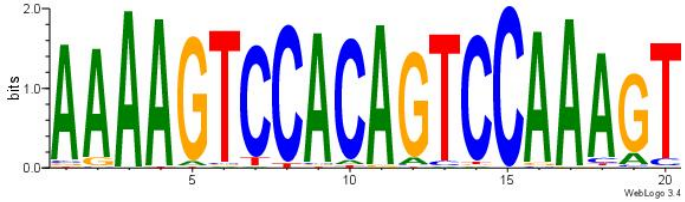

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

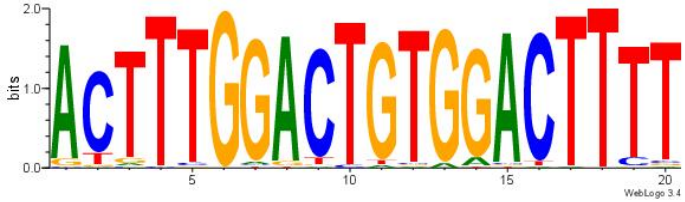

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.122621

Alignment:
CGCGGCGCTTGCGGGCCAGC
-KGGGCDGAGGGGCTCCT--

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

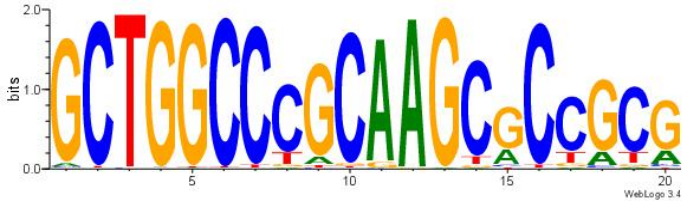

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

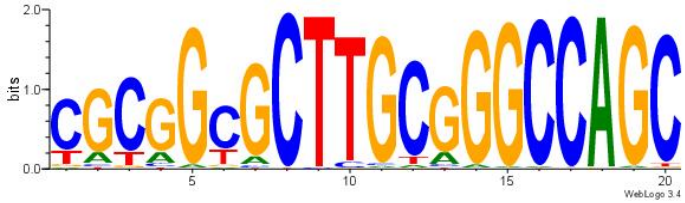

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.122811

Alignment:

```
CTAGACATAAAGGTTCTCCA
--KGGGCDGAGGGGCTCCT-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

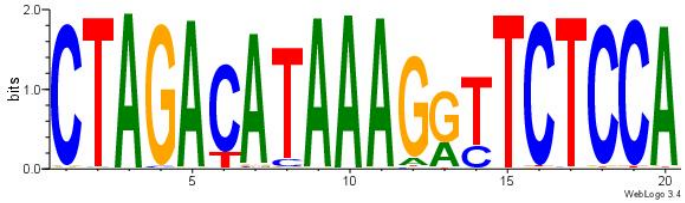

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

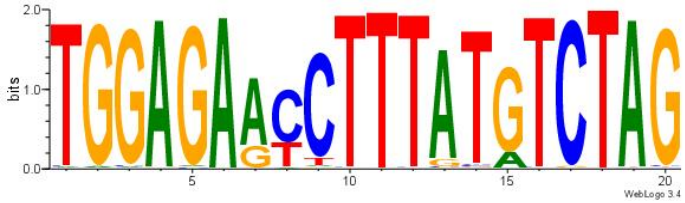

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.123666

Alignment:

```
AAAMAMMKMATGTTCTCACT
--AGGAGCCCCTCHGCCCR-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

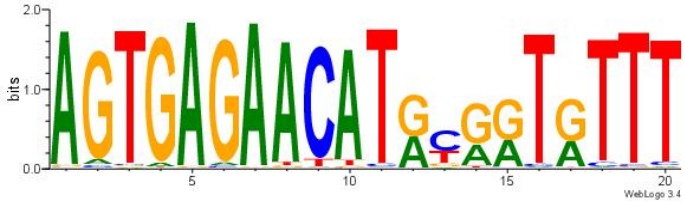

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

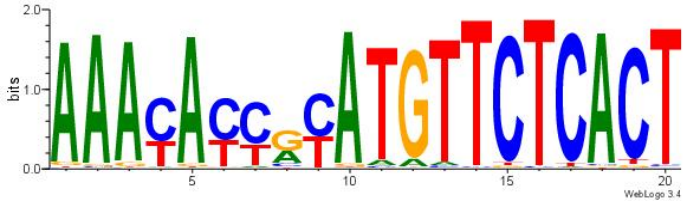

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.123684

Alignment:
GGAGCCGGCTCCCTCAGCTT
KGGGCDGAGGGGCTCCT---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

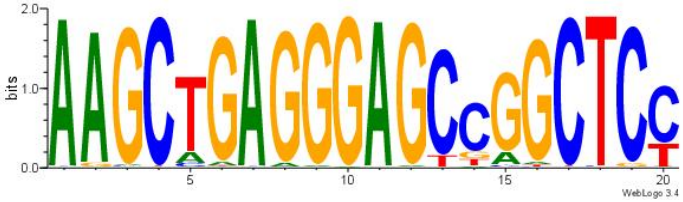

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

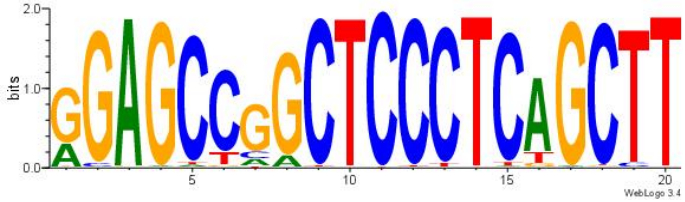

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.12372

Alignment:
GCCACCAMGCCMKGCTAAT
--AGGAGCCCCTCHGCCCR

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

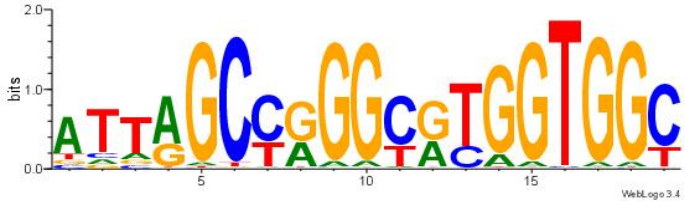

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

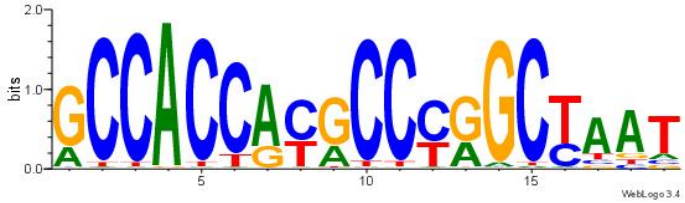

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.123825

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
AGGAGCCCCTCHGCCCR---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

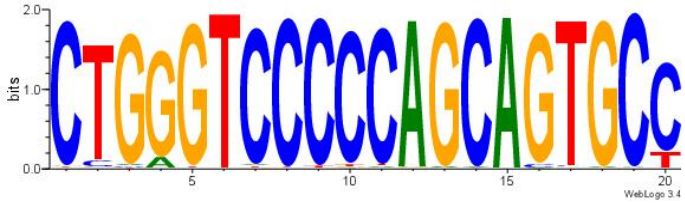

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

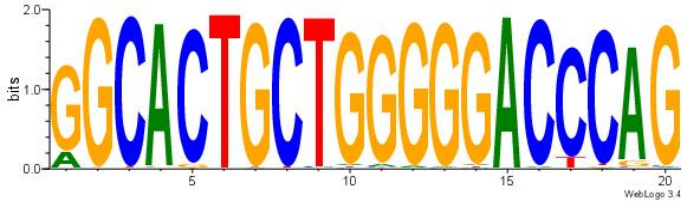

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.123838

Alignment:

```
CTGGGCRACAGAGYRAGACY
--KGGGCDGAGGGGCTCCT-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

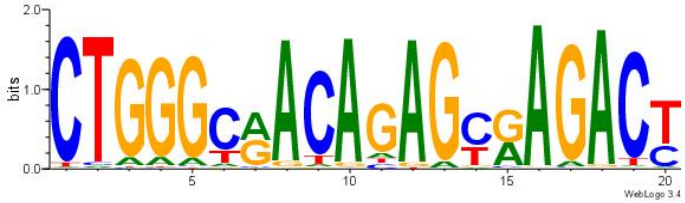

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

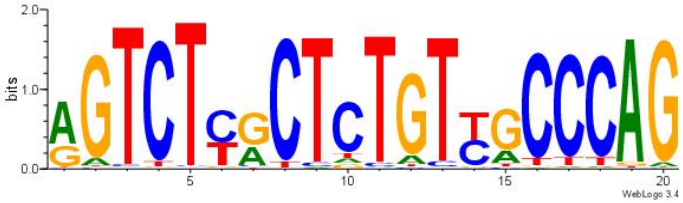

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.125368

Alignment:
AGTGACCCGATTTTCCAGGT
---AGGAGCCCCTCHGCCCR

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

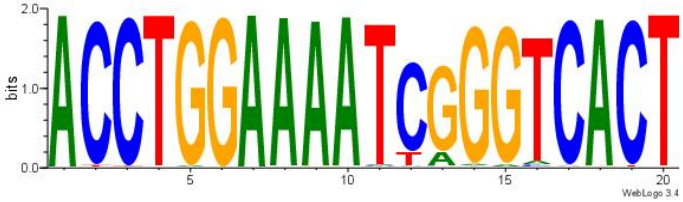

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

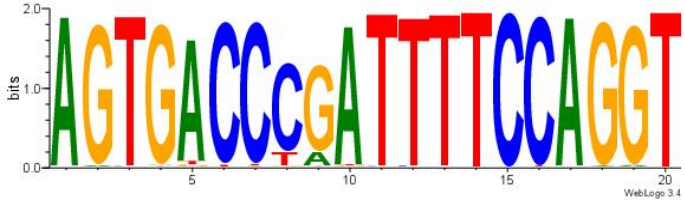

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.12549

Alignment:
GAAATTGACTTCCTCCT
KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

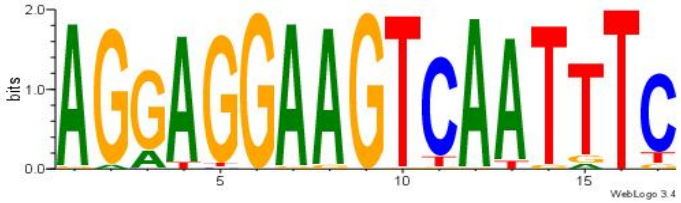

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

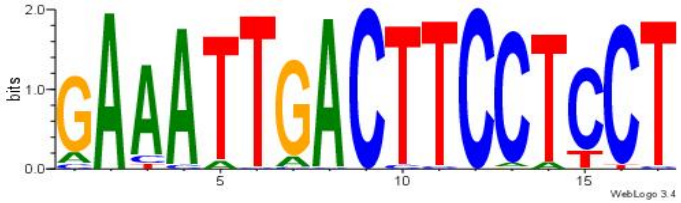

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.125498

Alignment:

```
GTGCCAGGCACTGTKCTARG
--AGGAGCCCCTCHGCCCR-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

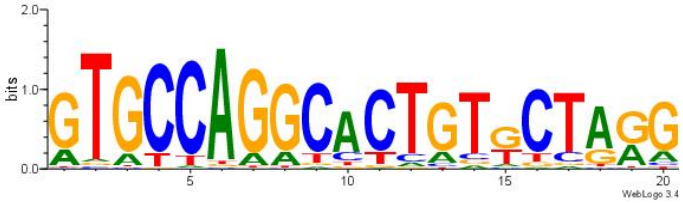

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

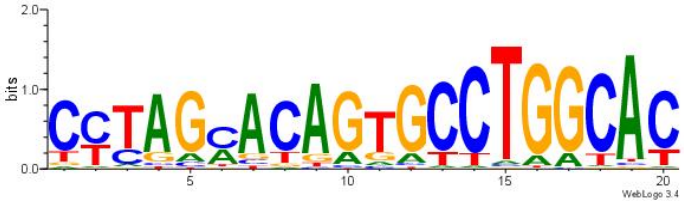

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.125763

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-AGGAGCCCCTCHGCCCR--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

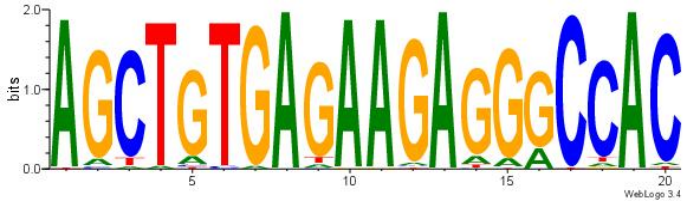

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

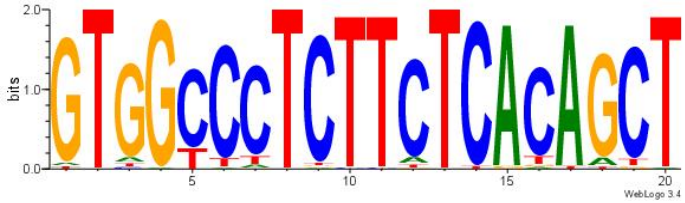

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.126205

Alignment:
GCTGTGTGACCTTGGGCAAG
---AGGAGCCCCTCHGCCCR

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

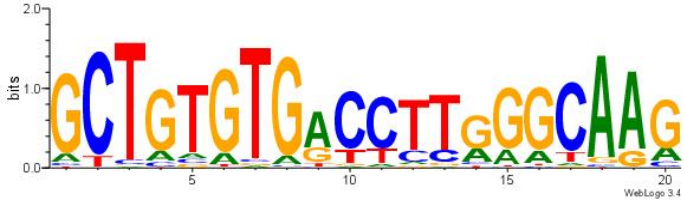

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

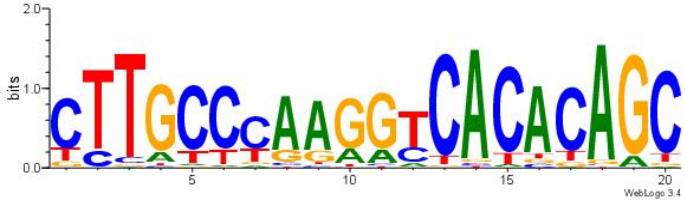

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.126818

Alignment:
GAAGGCAGCTAAGGCCCGGY
-AGGAGCCCCTCHGCCCR--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

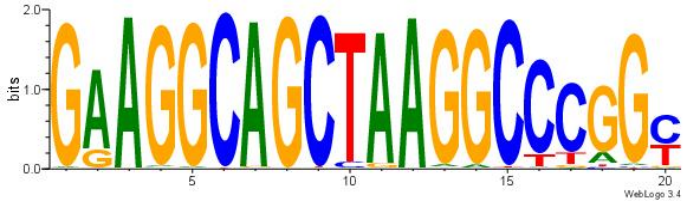

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

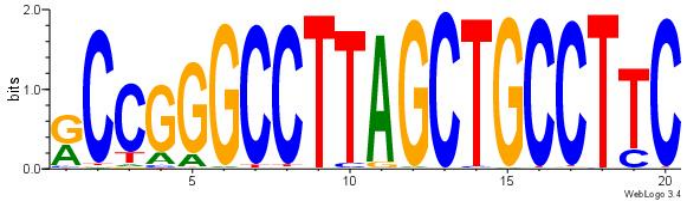

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.127192

Alignment:

```
GACTGGCAGGCAGCTCCACC
KGGGCDGAGGGGCTCCT---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

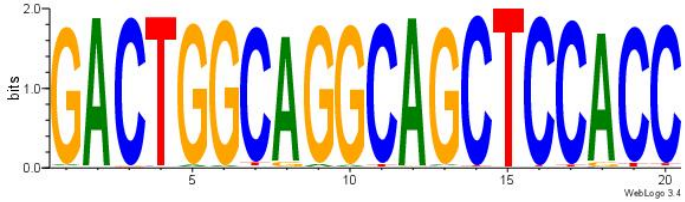

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

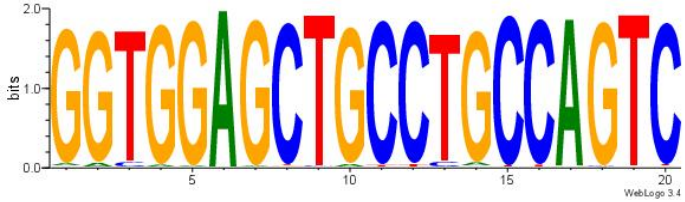

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.127712

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
KGGGCDGAGGGGCTCCT---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

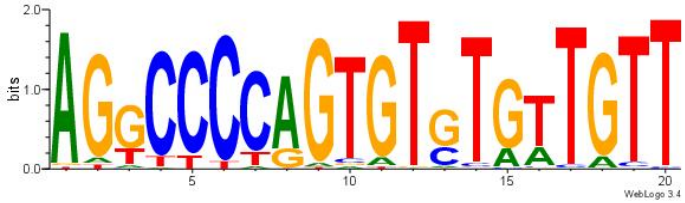

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

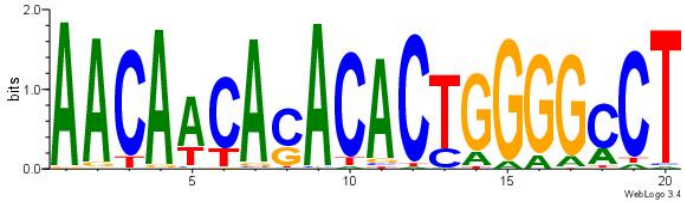

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.128491

Alignment:
GCTGCARTCTCGGCACTTT
-KGGGCDGAGGGGCTCCT-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

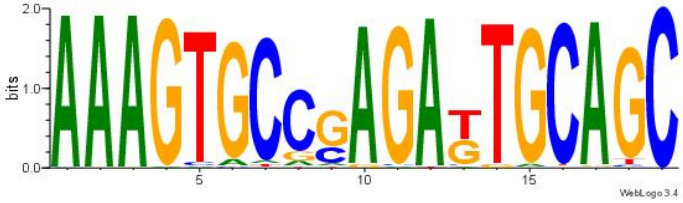

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

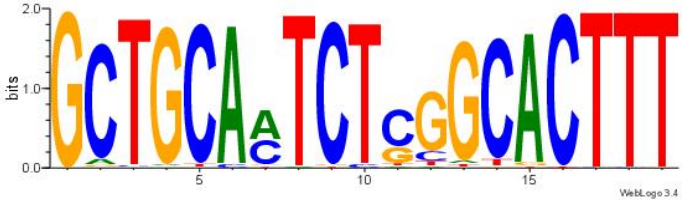

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.128945

Alignment:
ACCGAGMKMGCAGCTTCGGG
-KGGGCDGAGGGGCTCCT--

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

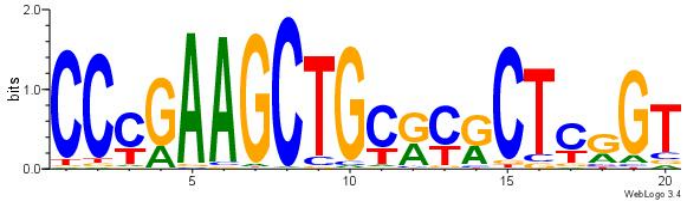

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

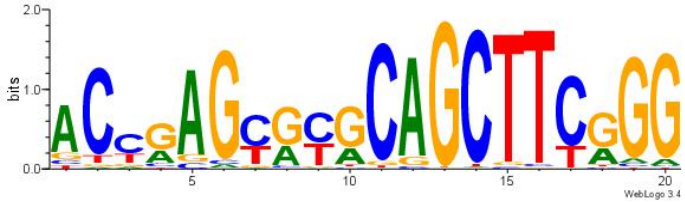

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.129164

Alignment:

```
CAGGTGGTKTTTGGTTACAT
--KGGGCDGAGGGGCTCCT-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

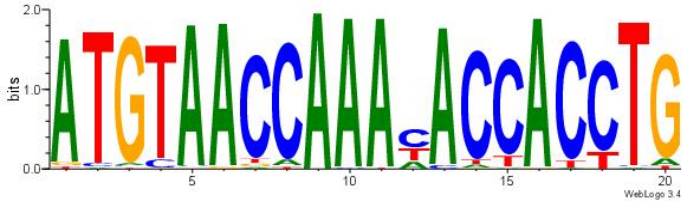

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

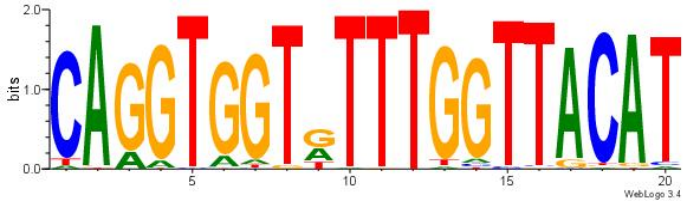

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.129636

Alignment:
TTTTCACATGCCTTTCT
KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

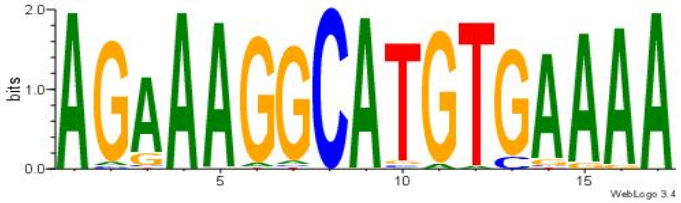

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

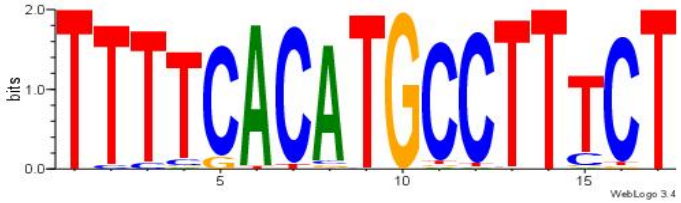

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.131073

Alignment:
ATGTGGAGGTGGAAGACAGT
-KGGGCDGAGGGGCTCCT--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

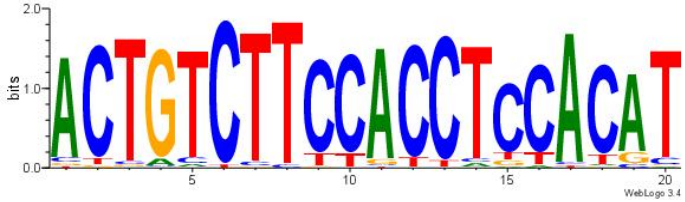

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

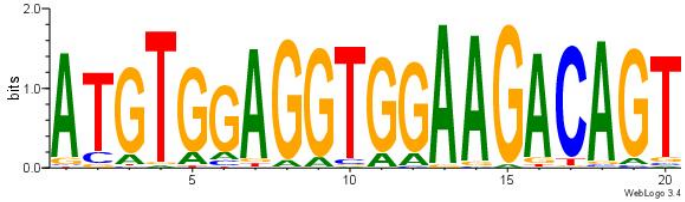

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.131799

Alignment:
AGCCCCGGTTCCCGCYCGC
AGGAGCCCCTCHGCCCR--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

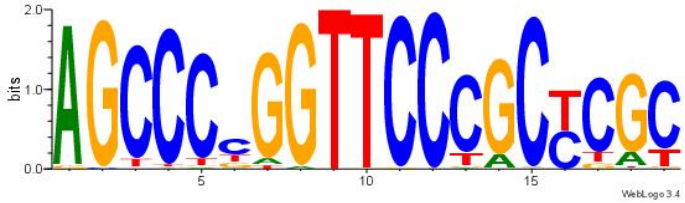

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

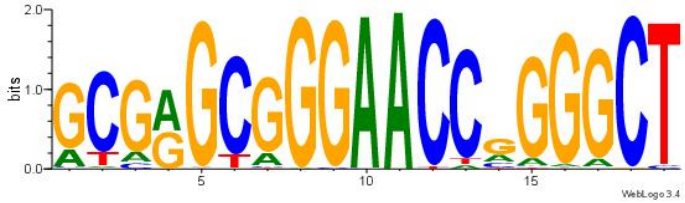

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.131881

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
---KGGGCDGAGGGGCTCCT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

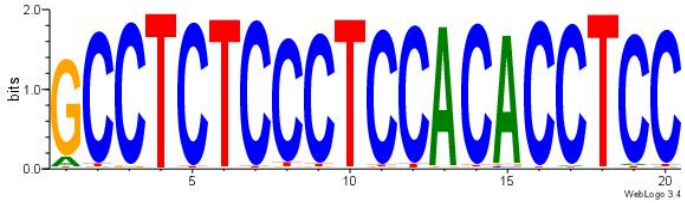

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

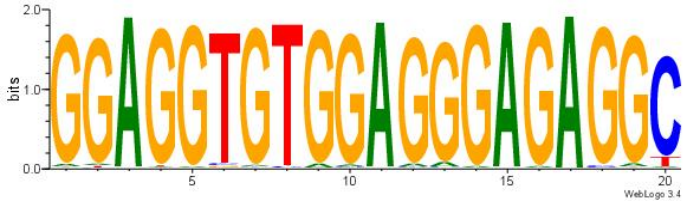

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.132251

Alignment:

GAGGAGGRGGAGGDGGV

KGGGCDGAGGGGCTCCT

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

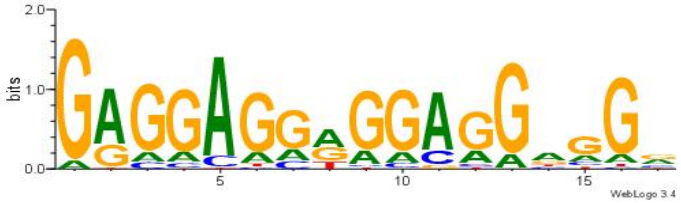

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

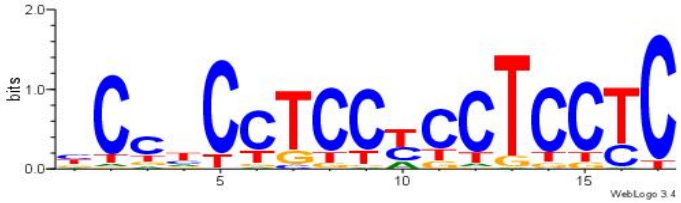

Dataset #: 1 Motif ID: 112 Motif name: Motif 112

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

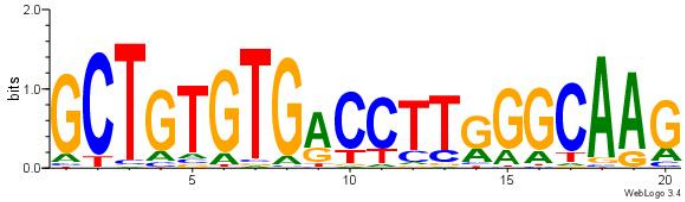

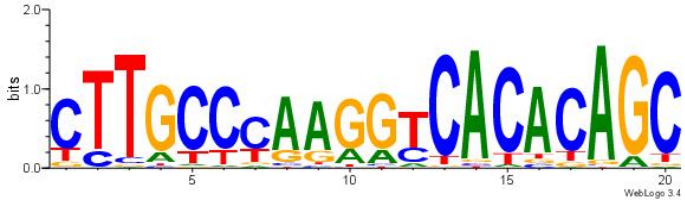

Best Matches for Motif ID 112 (Highest to Lowest)

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.100531

Alignment:

GCCKGGMKCMGTGGCTCAKG

GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

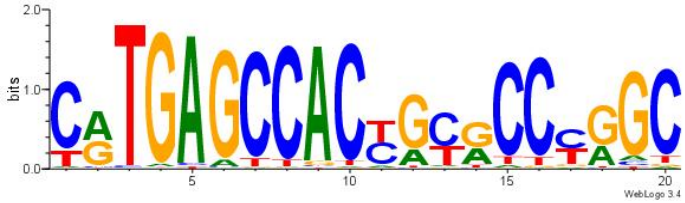

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

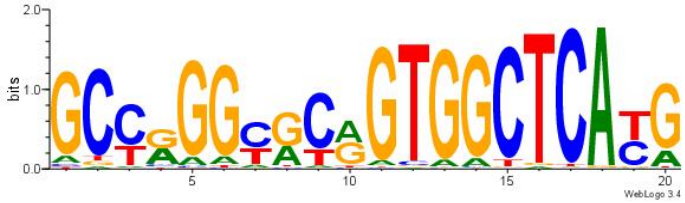

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117214

Alignment:
GGGAGGTGTCTCCCAGTCAG
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

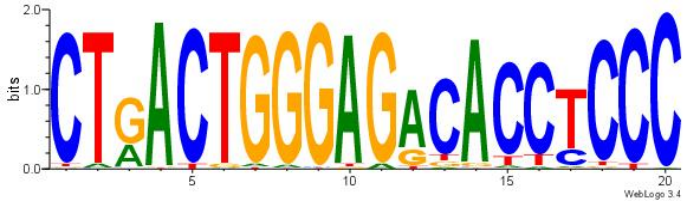

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

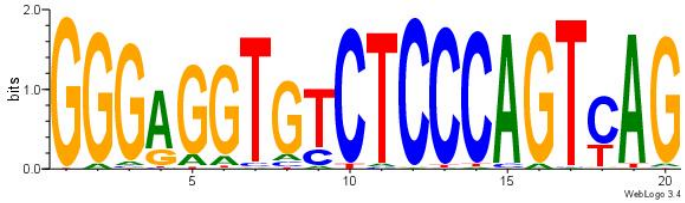

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.117422

Alignment:
CTGGGCRACAGAGYRAGACY
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

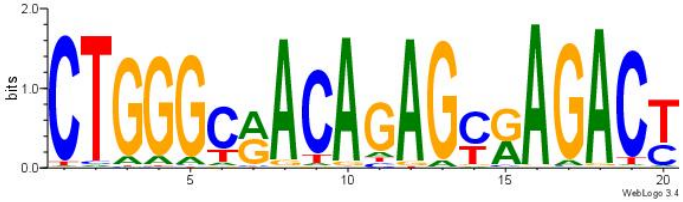

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

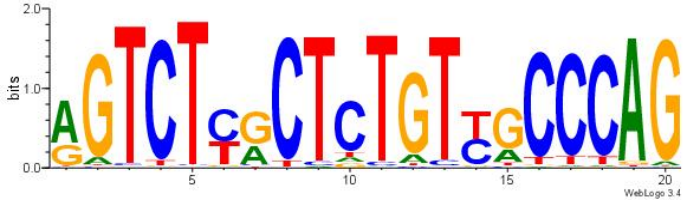

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.121986

Alignment:
ATGTGGAGGTGGAAGACAGT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

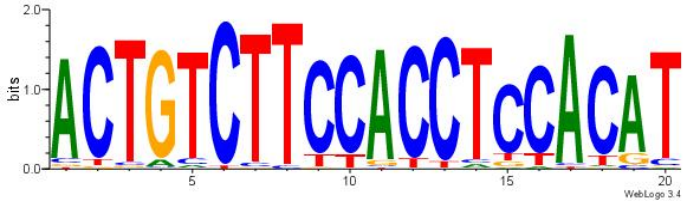

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

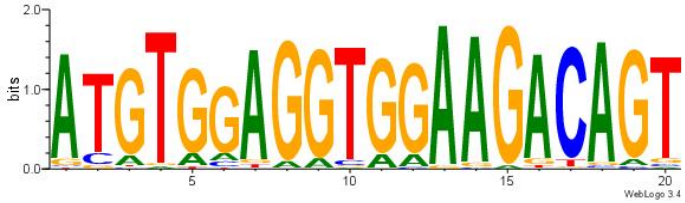

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122256

Alignment:

```
TCKMGCCACTGCACTCCAGC
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

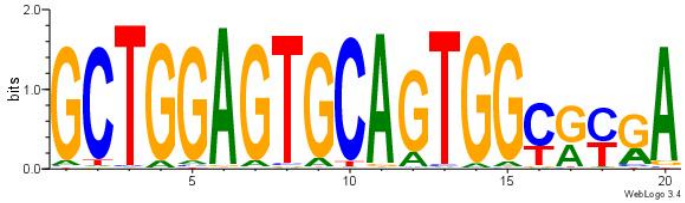

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

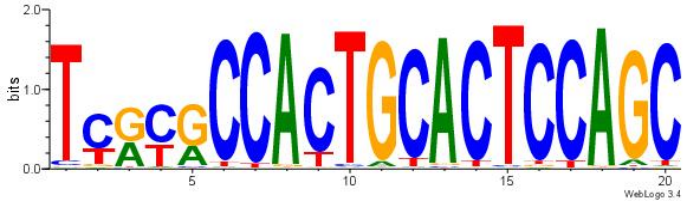

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12235

Alignment:
GTKTMTATMTACCACATTTT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

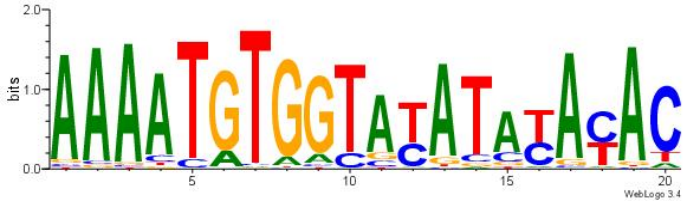

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

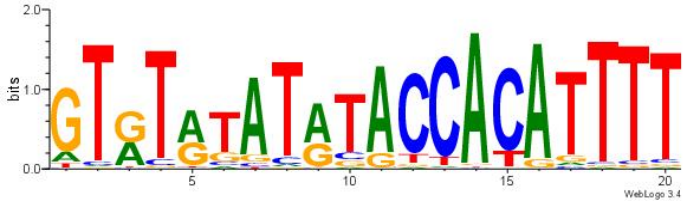

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.123196

Alignment:
CMTAGYACAGTGCCTGGCAC
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

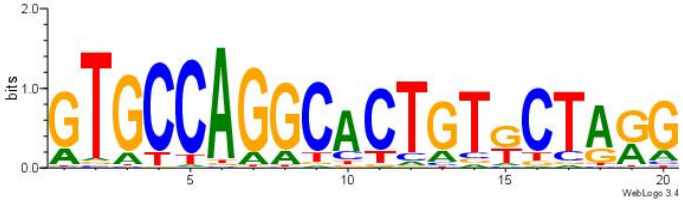

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

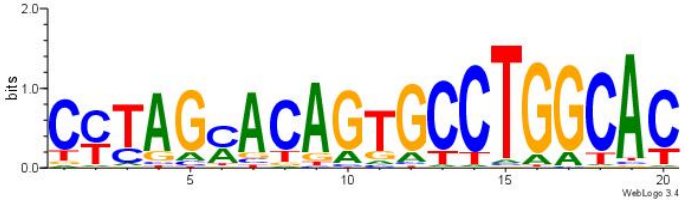

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.123626

Alignment:
CGCGGCGCTTGCGGGCCAGC
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

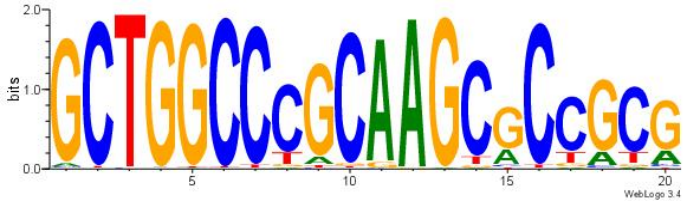

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

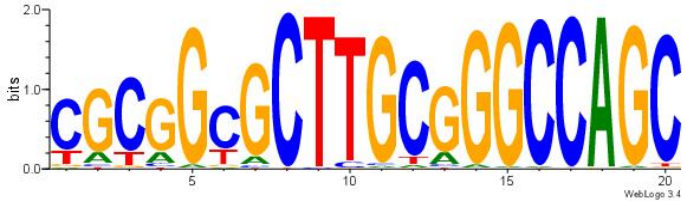

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123689

Alignment:

```
TYTGTCMTTTTGTGACTGGC
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

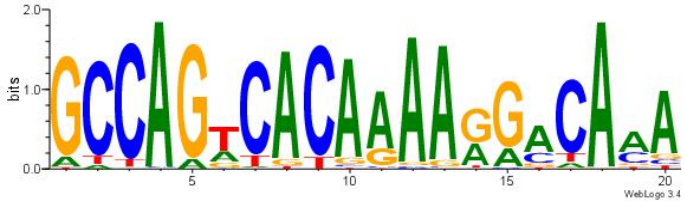

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

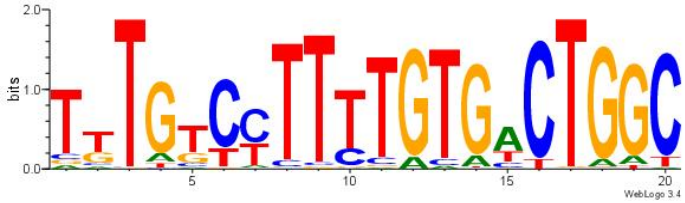

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124099

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

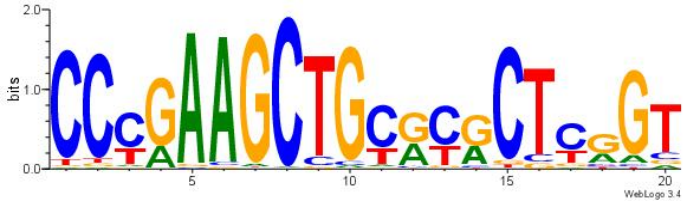

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

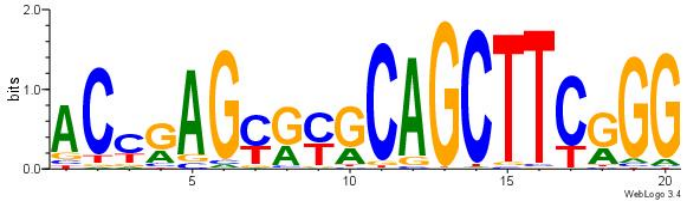

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.124253

Alignment:
TTTYTWTTTTTTYTWGAGAC
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

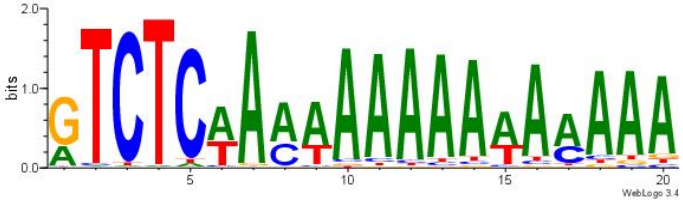

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

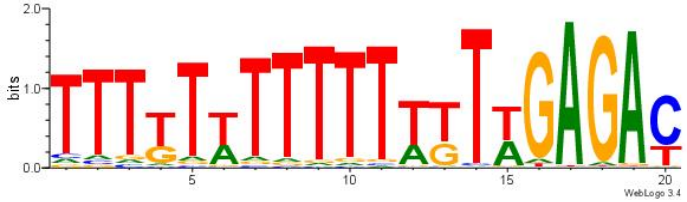

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.126019

Alignment:
CCTGCCATTGCYSAGGCTTG
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

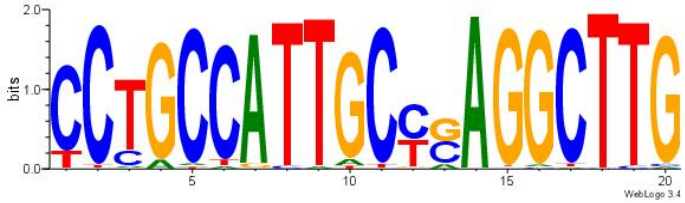

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

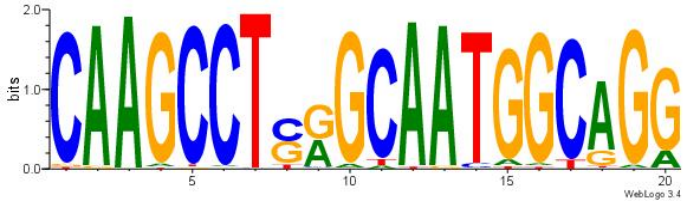

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12641

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

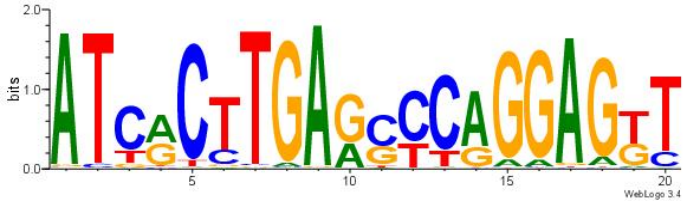

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

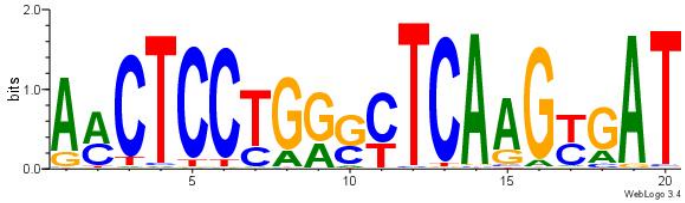

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127006

Alignment:

GGTTCATCTCACTAGGGAGT
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

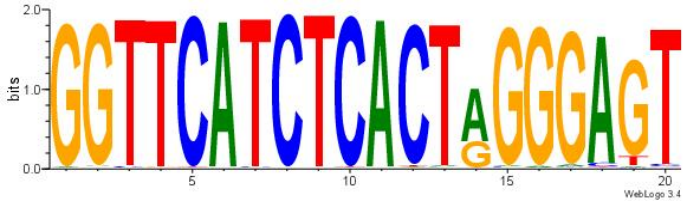

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

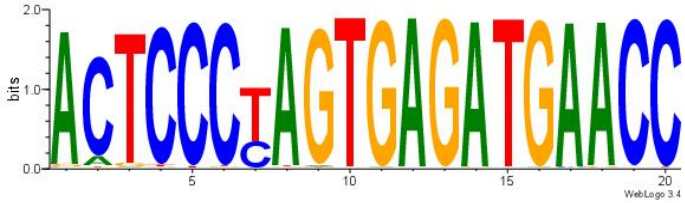

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.12812

Alignment:
ATGGCTGAATAKTATTCCAT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

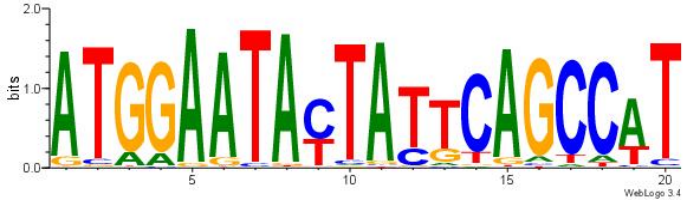

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

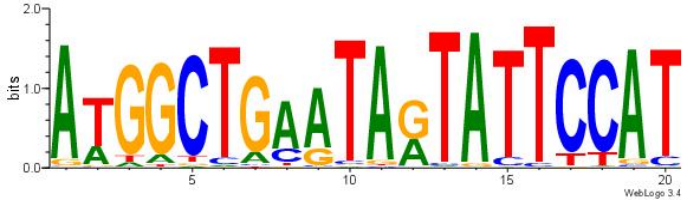

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128553

Alignment:
GTTTAACCATTGAGGGCCAG
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

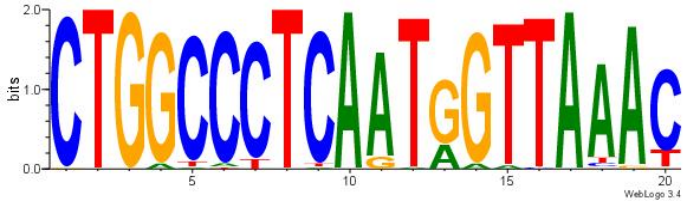

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

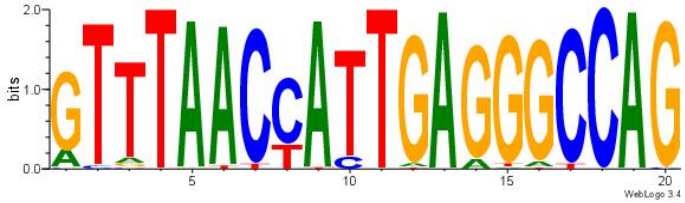

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131271

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

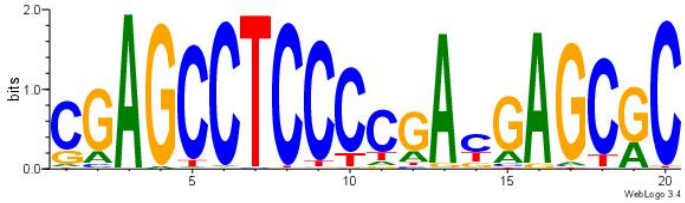

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

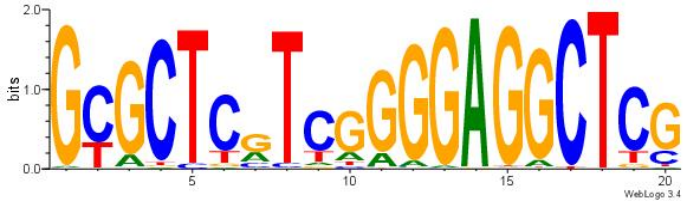

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131902

Alignment:
TTGTCCCACTGGAAGGTCTT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

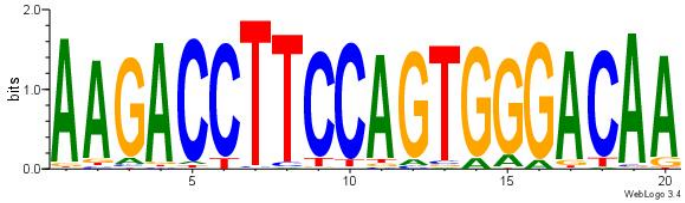

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

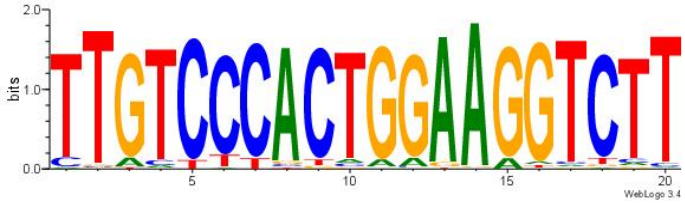

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.133418

Alignment:
CGTCGCTCACGCTGGGAGCT
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

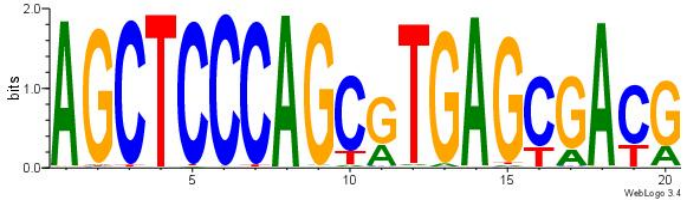

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

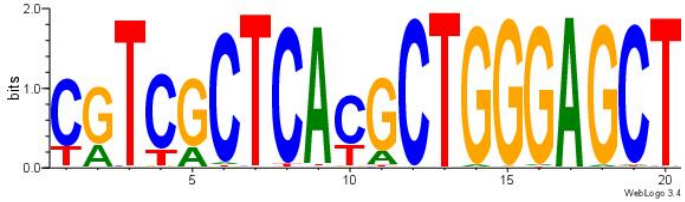

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133744

Alignment:
GAGAGAGAGAGAGAGAGAGA
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

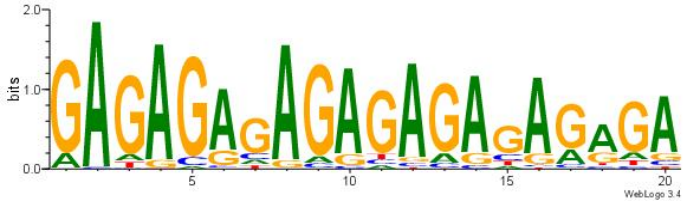

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

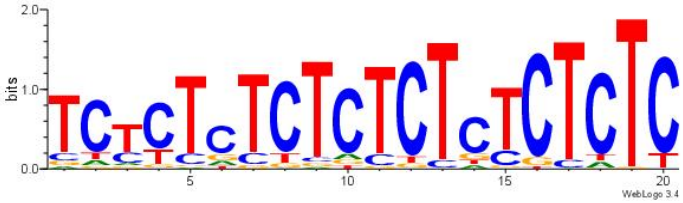

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136744

Alignment:

```
AATCAACCCTGGYRATCAAT
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

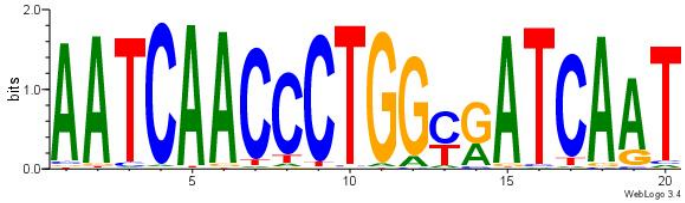

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

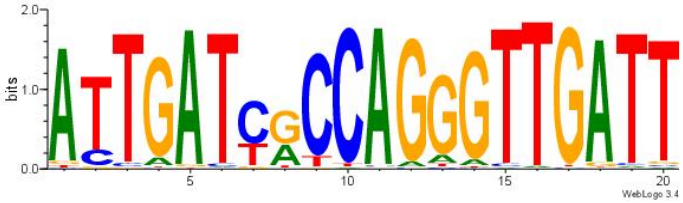

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137648

Alignment:
CCCATGCAAGTCYRAAATCC
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

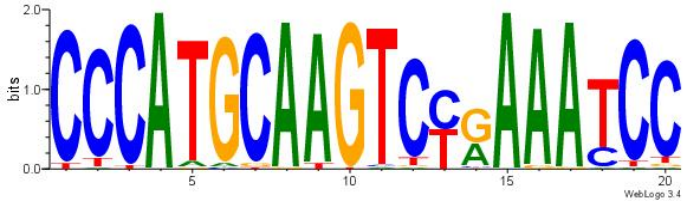

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

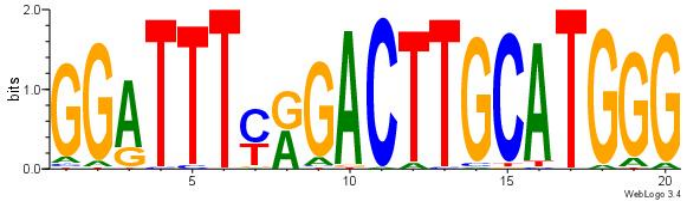

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.138229

Alignment:
GTGTCKGGAGTTTGTTCCTT
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

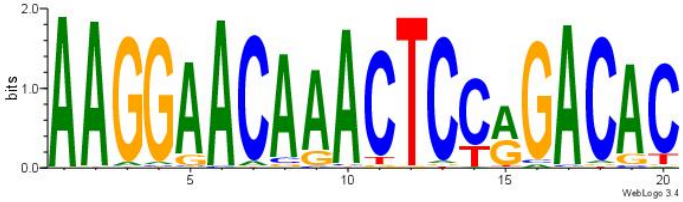

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

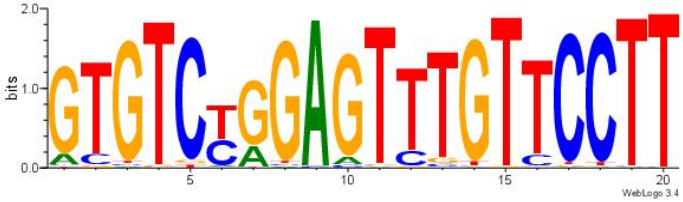

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.138355

Alignment:
AGTAGGTGCTCARTAAATRB
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

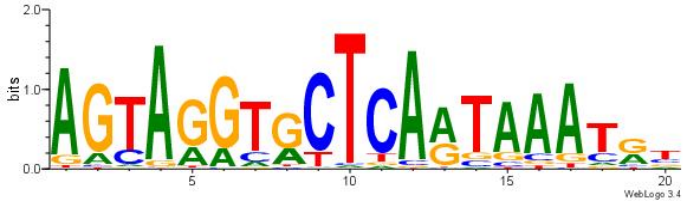

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

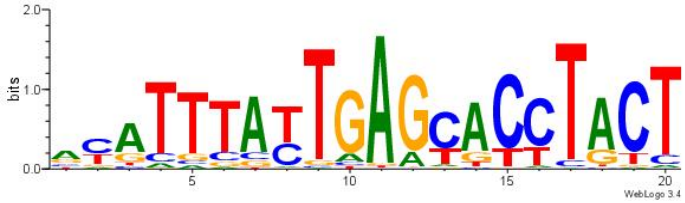

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138677

Alignment:

```
CCCMKGGCACCCTCAGTCCT
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

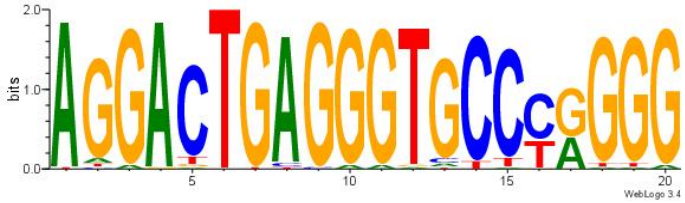

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

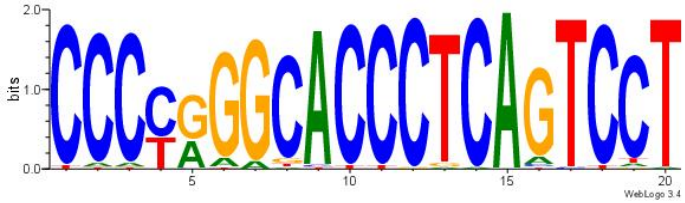

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139482

Alignment:

```
AGGTTTGTTACATAGGTAWA
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

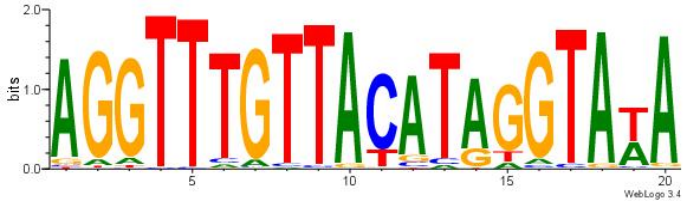

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

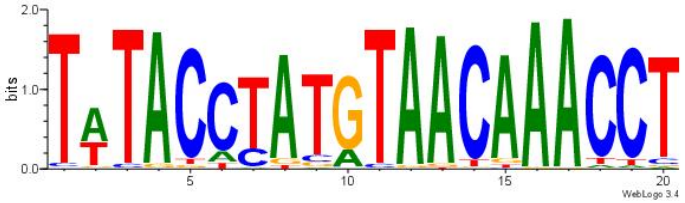

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.140523

Alignment:
GGGATTGTAAATACACCAAT
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

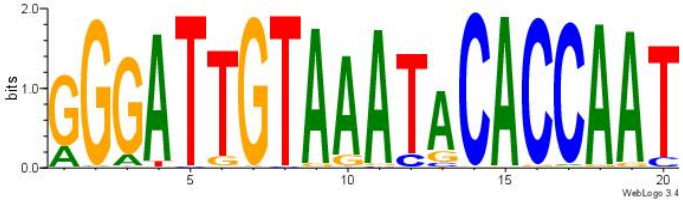

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14083

Alignment:
GTTATTAATTGGCCTAATTT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

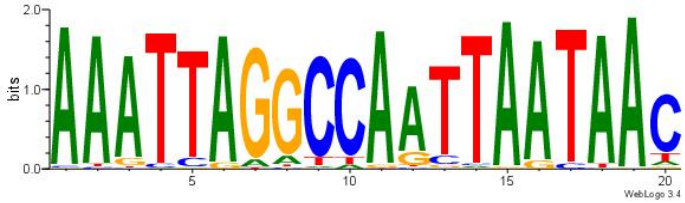

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140833

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

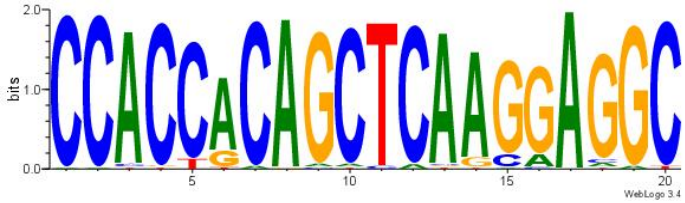

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

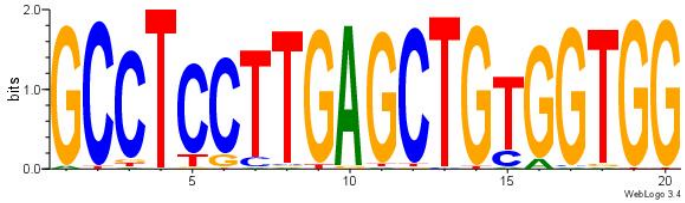

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140899

Alignment:
AGTGACCCGATTTTCCAGGT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

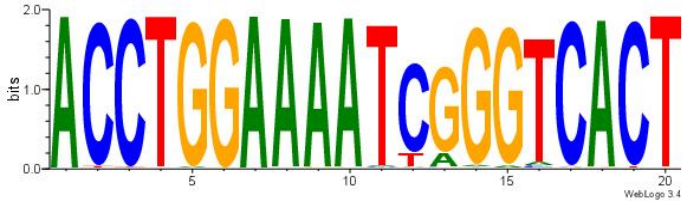

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

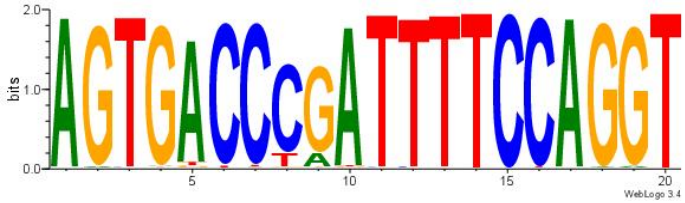

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.141177

Alignment:
GCACATGTAYCCYAGAACTT
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

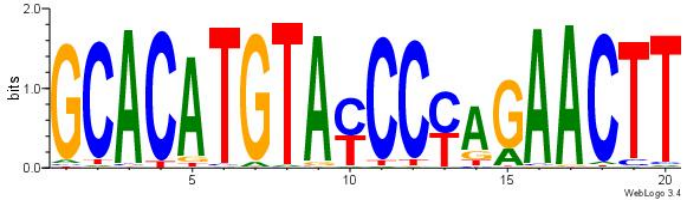

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

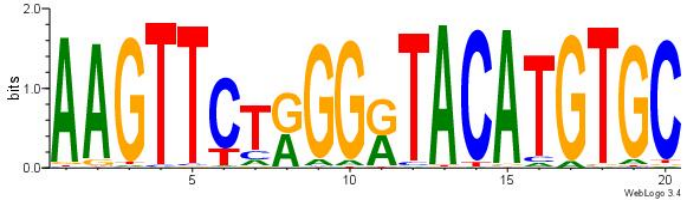

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14179

Alignment:
AGGCCCCAGTGTSTGTTGTT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

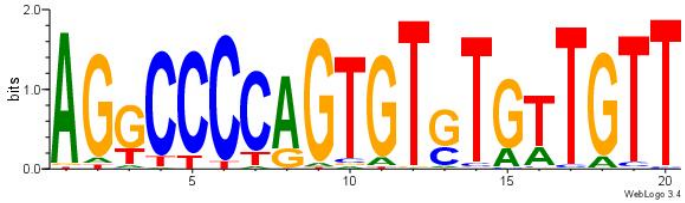

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

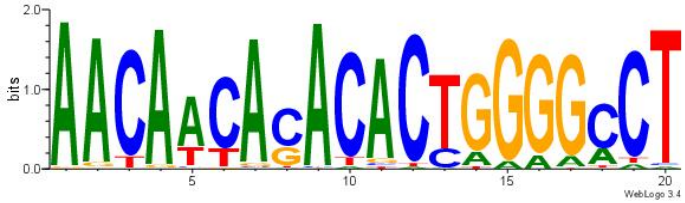

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142983

Alignment:

```
AAGCTCGAACTGGGTGGAGC
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

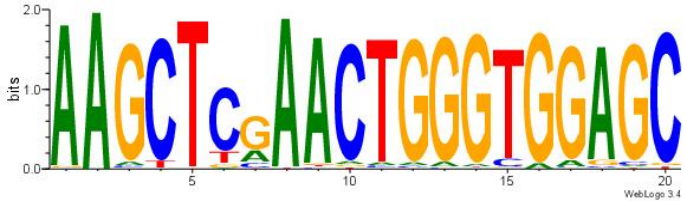

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

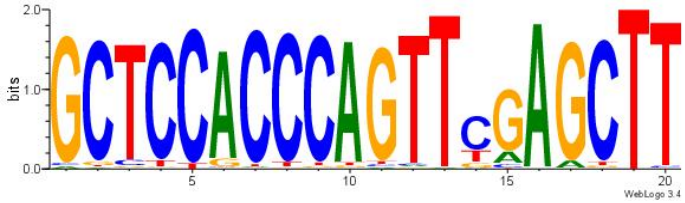

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143653

Alignment:
CATTCTGGGGTCTGGAGGAY
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

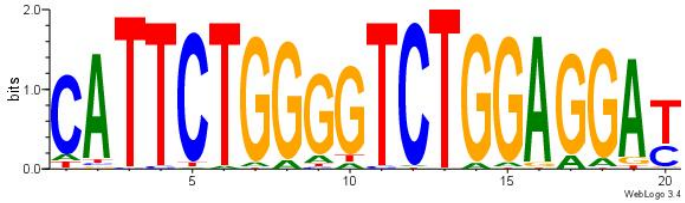

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

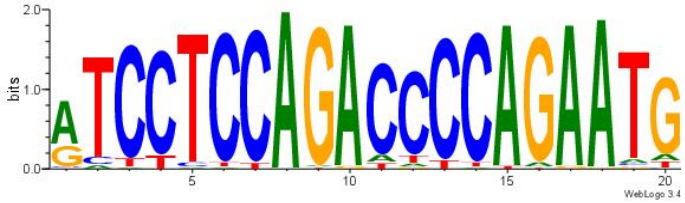

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.144163

Alignment:
CTCCTGCCTCAGCCTCCCRA
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

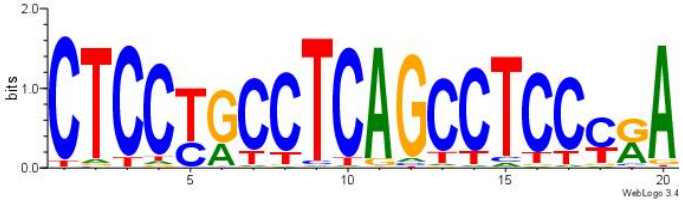

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

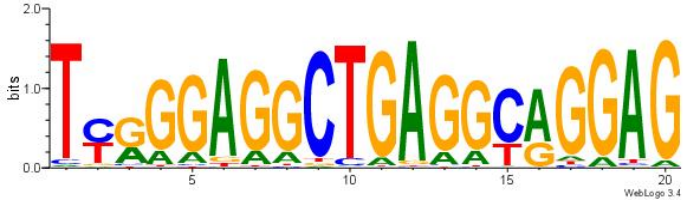

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.1445

Alignment:
ATGTAACCAAAYACCACCTG
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

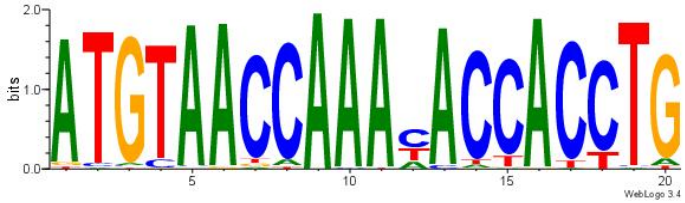

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

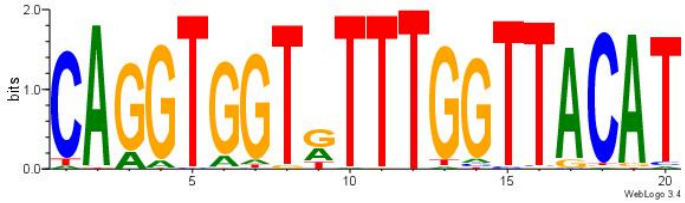

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144556

Alignment:

```
AGAGCCAAATCATGARTGAA
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

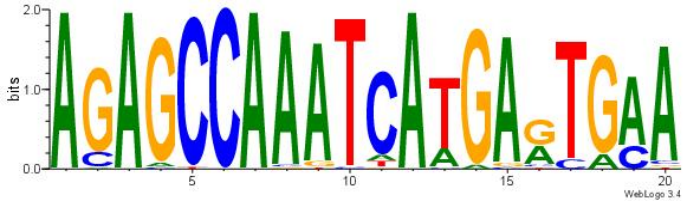

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

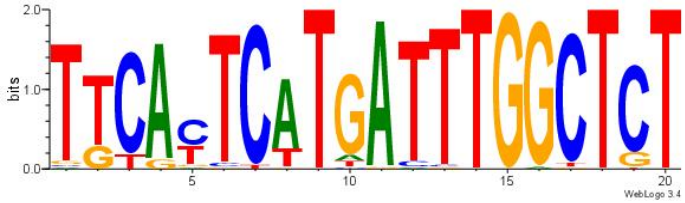

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145058

Alignment:

```
AAGTCCAAGATCAAGGTGYY
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

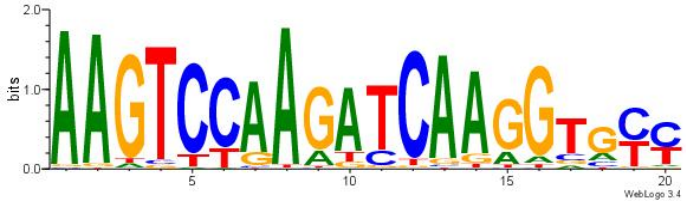

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

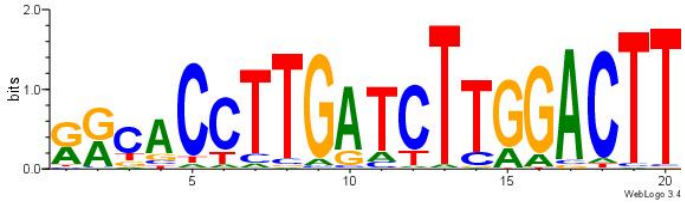

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.145134

Alignment:
AATGAKATCATGTCYTTTGC
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

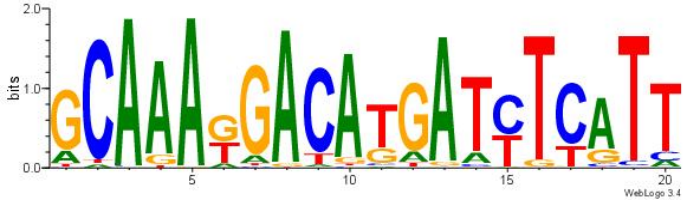

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

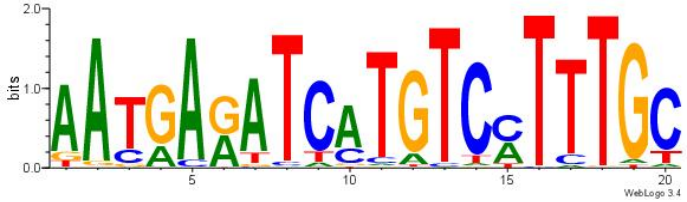

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145579

Alignment:
HAGTGGKATTGCTGGATCAT
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

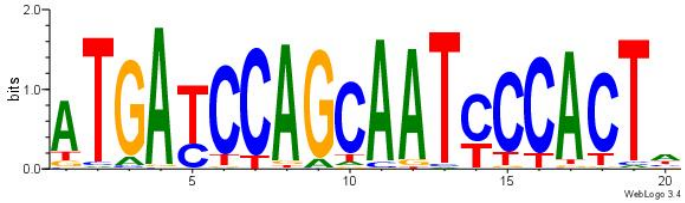

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

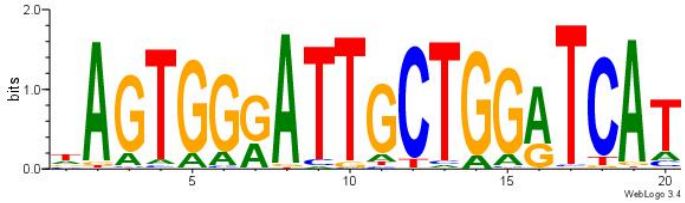

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145771

Alignment:

```
GAAHCAACCKAAKTGTCCAT
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

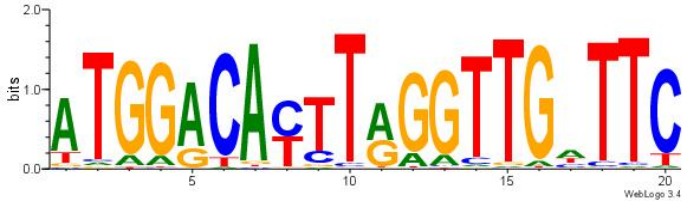

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

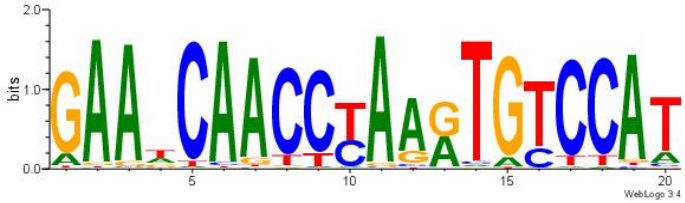

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146091

Alignment:
GGAGCCGGCTCCCTCAGCTT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

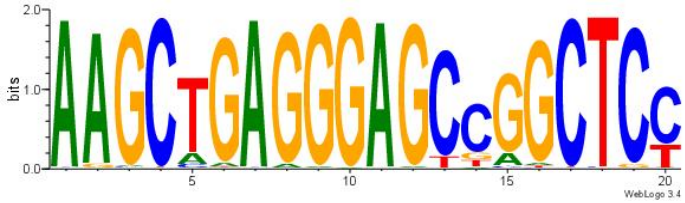

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

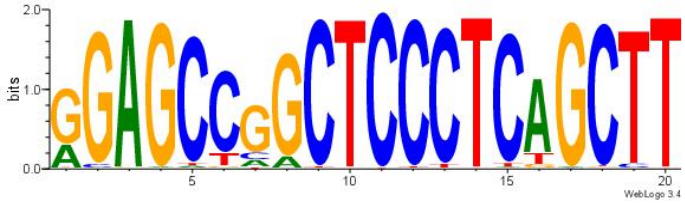

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.146246

Alignment:
GCCKCCCCGTCCGGGAGGGA
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

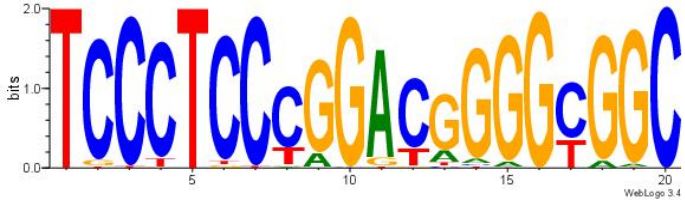

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

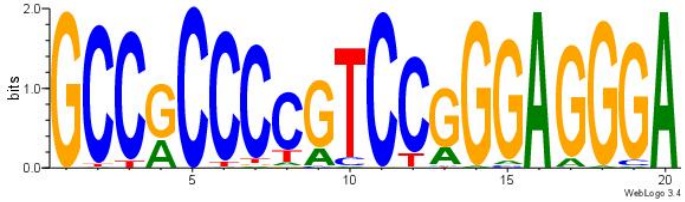

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146604

Alignment:
CAGCTACTCKTATACCCTTG
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

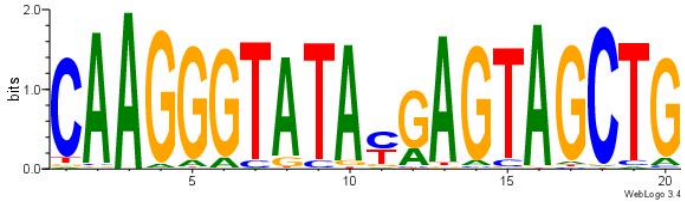

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

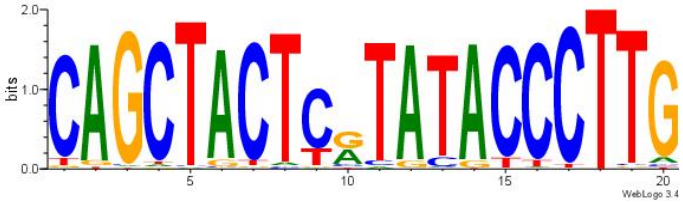

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146685

Alignment:

```
AGCCYCTGGYAACCAYYAWT
GCTGTGTGACCTTGGGCAAG
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

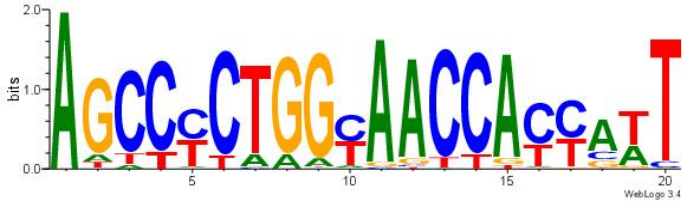

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

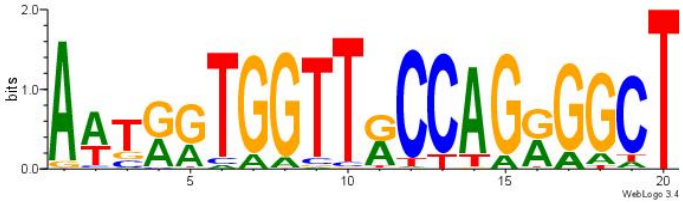

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146835

Alignment:
AAAMAMMKMATGTTCTCACT
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

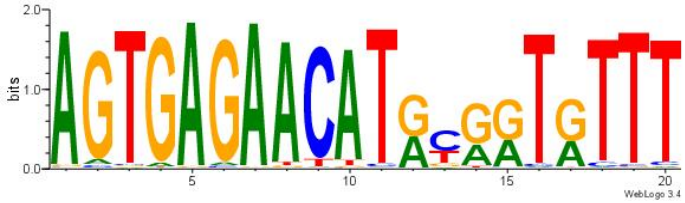

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

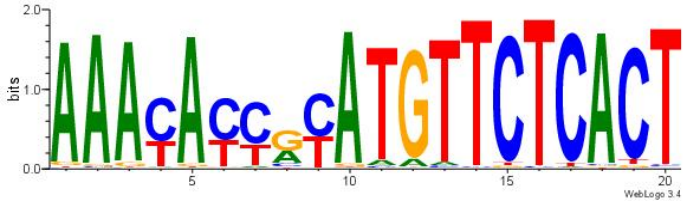

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.146945

Alignment:
GACAGGAGATTAACACTGAG
GCTGTGTGACCTTGGGCAAG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

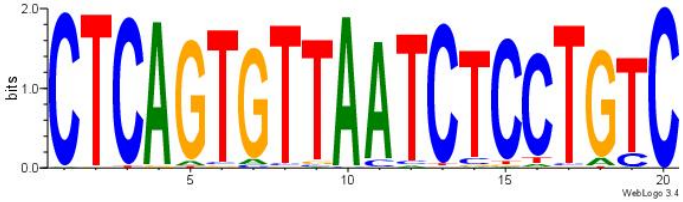

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

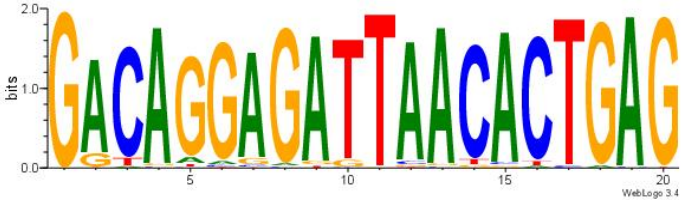

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148023

Alignment:
AAATTACCCAGTCTCAGGTA
CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

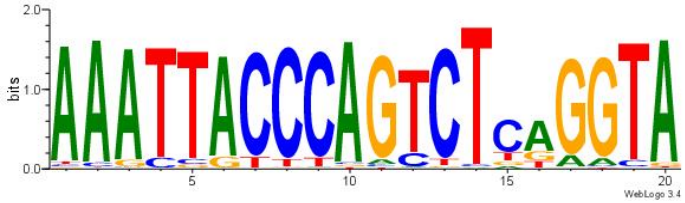

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

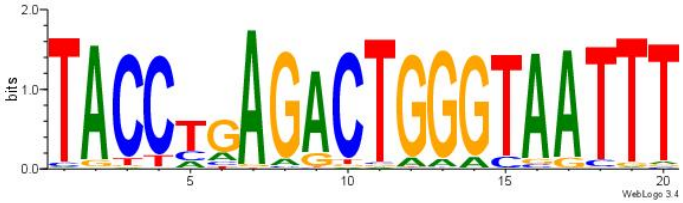

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149001

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CTTGCCCAAGGTCACACAGC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

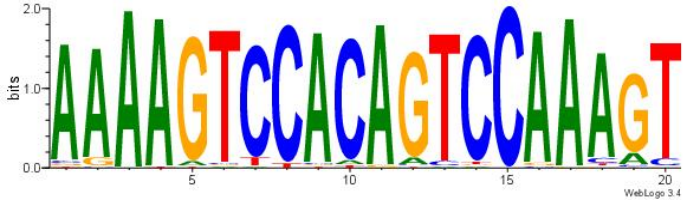

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

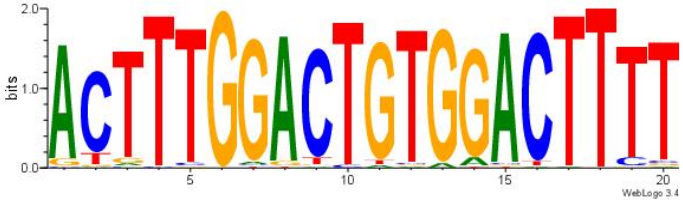

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14992

Alignment:

CTCCAGKTMCATCCATGTTG

CTTGCCCAAGGTCACACAGC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

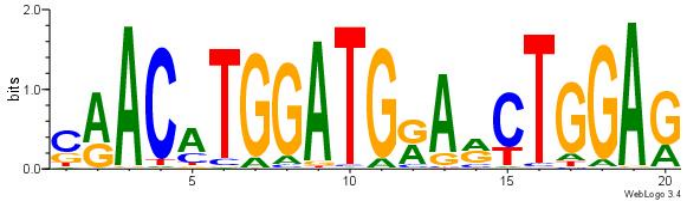

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

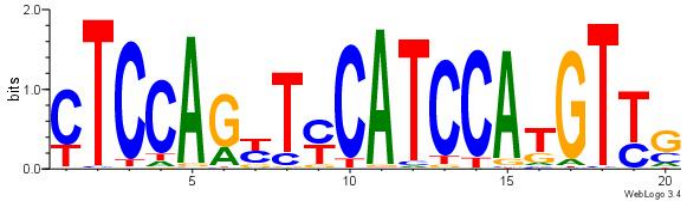

Dataset #: 1 Motif ID: 113 Motif name: Motif 113

Original motif Consensus sequence: CACTTCCTA

Reverse complement motif Consensus sequence: TAGGAAGTG

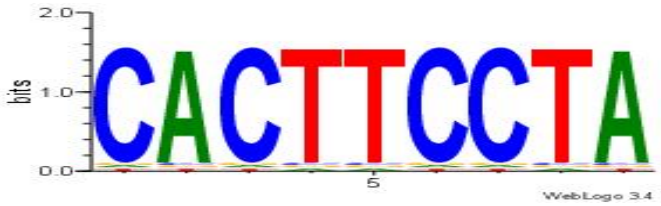

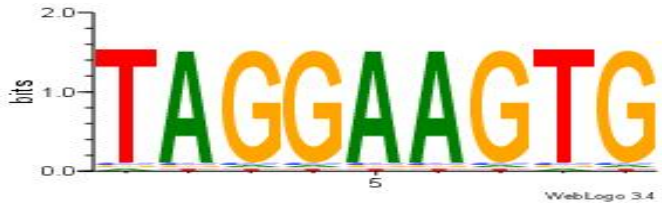

Best Matches for Motif ID 113 (Highest to Lowest)

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0147795

Alignment:

```
CCATCTAGGAAGTG
-----TAGGAAGTG
```

Original motif Consensus sequence: CACTTCCTAGATGG

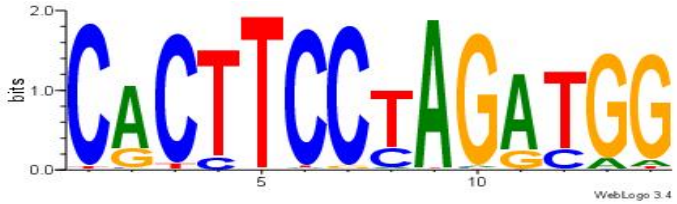

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

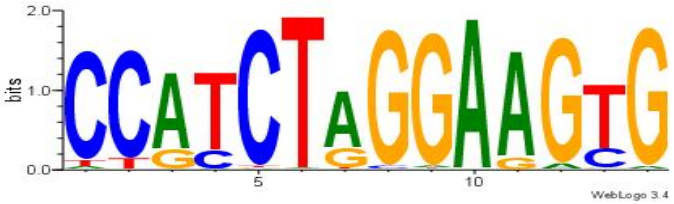

Dataset #: 1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0332374

Alignment:

```
GGCACTCCCTAGTG
--CACTTCCTA---
```

Original motif Consensus sequence: CACTAGGGAGTGCC

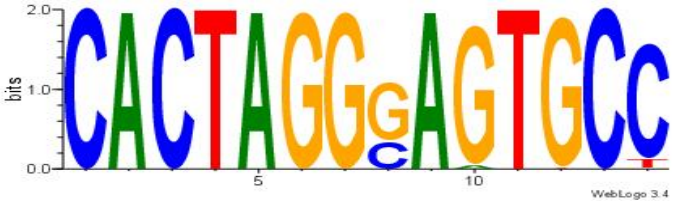

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

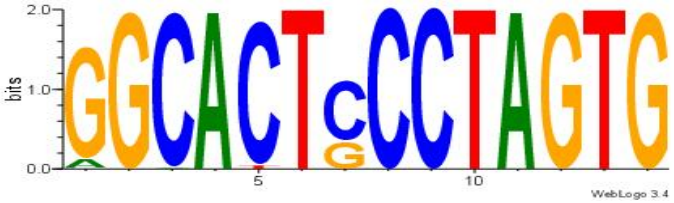

Dataset #:	1
Motif ID:	156
Motif name:	Motif 156
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0333368

Alignment:
GTCTGGGAAGTG
---TAGGAAGTG

Original motif Consensus sequence: CACTTCCCAGAC

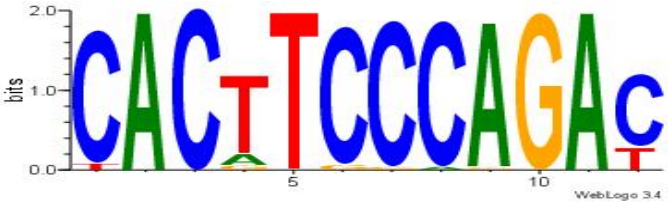

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

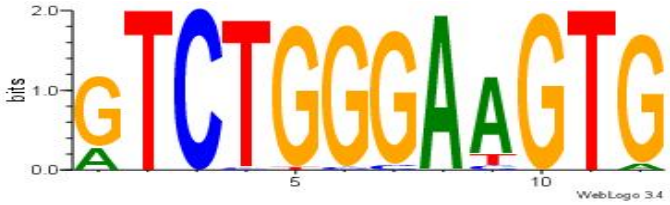

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0419916

Alignment:
CACTTCCCAGACGGGGCG
CACTTCCTA---------

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

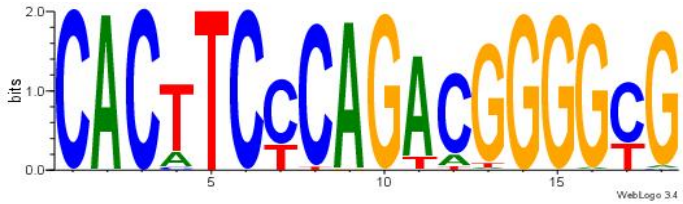

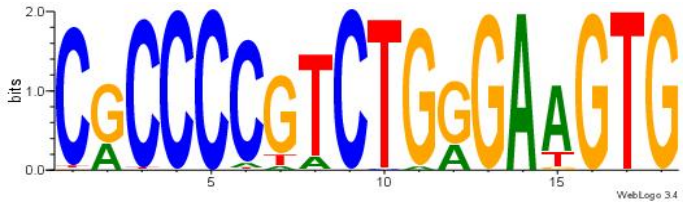

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0431985

Alignment:

```
GCAGGAGGTGAG
-TAGGAAGTG--
```

Original motif Consensus sequence: CTCACCTCCTGC

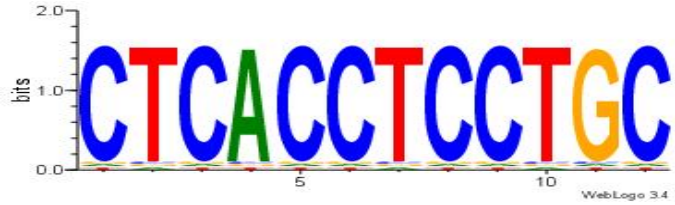

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

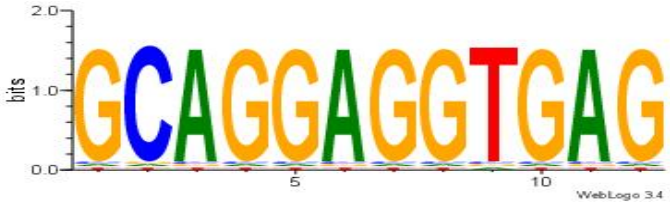

Dataset #:	1
Motif ID:	327

Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0506193

Alignment:

```
GAAATTGACTTCCTCCT
------CACTTCCTA--
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

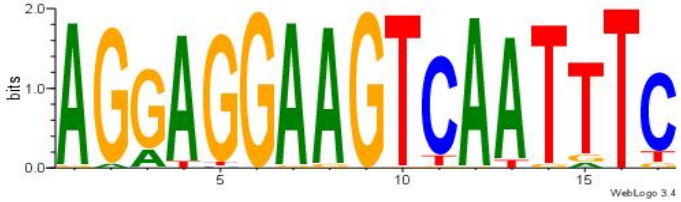

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

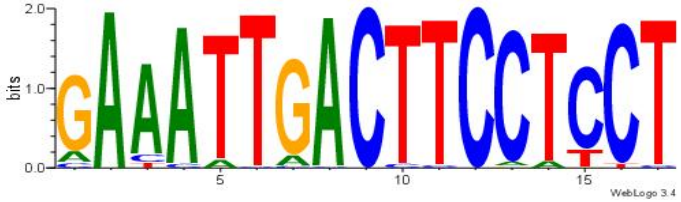

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0510147

Alignment:
CACCTCCCAGACMGGGT
--------CACTTCCTA

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

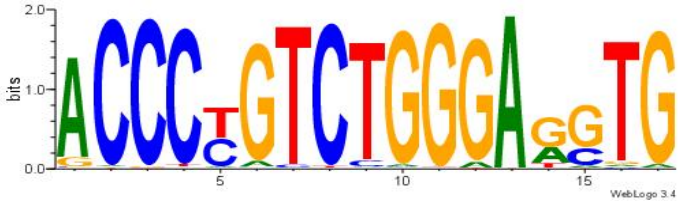

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

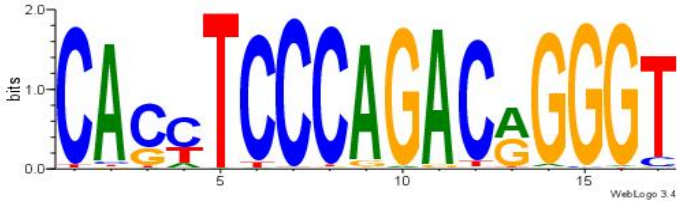

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0540203

Alignment:
GTGTCCCCTTCCTCCC
-----CACTTCCTA--

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

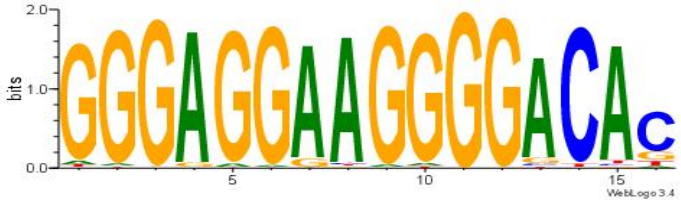

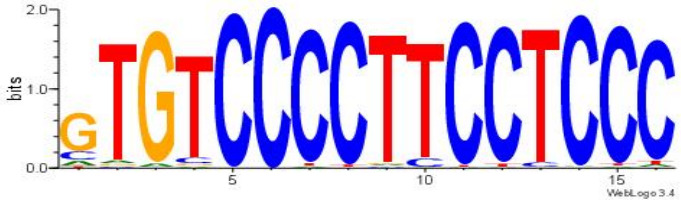

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0566738

Alignment:

```
CCCAAATCCTATAAAA
--CACTTCCTA-----
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

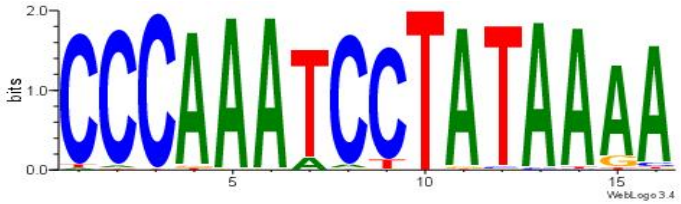

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

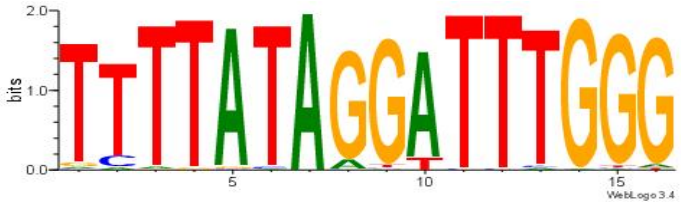

Dataset #:	1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0574089

Alignment:

```
CACTTTCCAGACTGGGCA
---------CACTTCCTA
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

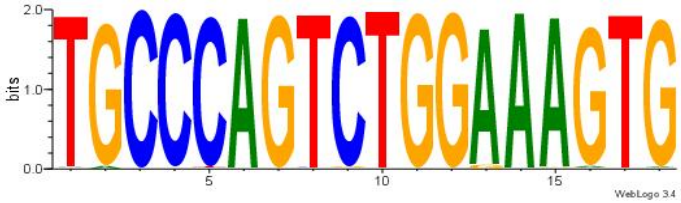

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

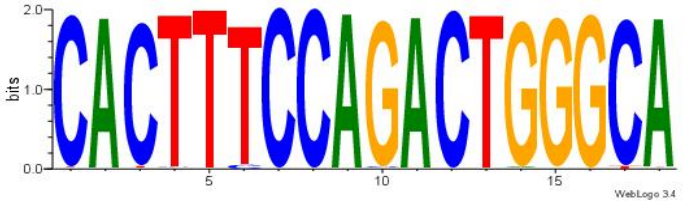

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9

Similarity score: 0.0581949

Alignment:
CATAGGAGATGAC
--TAGGAAGTG--

Original motif Consensus sequence: CATAGGAGATGAC

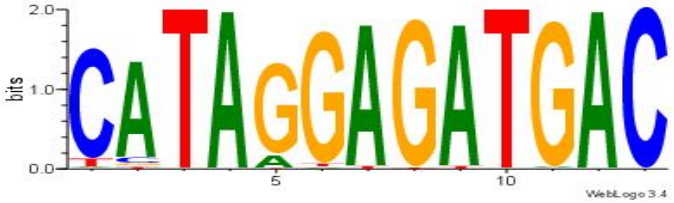

Reverse complement motif Consensus sequence: GTCATCTCCTATG

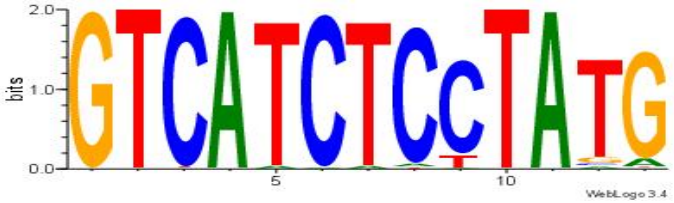

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0605839

Alignment:
CTTGCGCTTCCCRRGTGA
----CACTTCCTA-----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

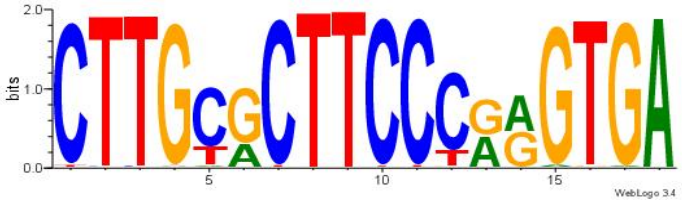

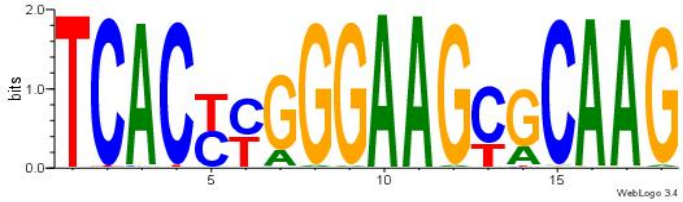

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.068451

Alignment:

```
TTGAGGAGGCAGTCTG
-----TAGGAAGTG--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

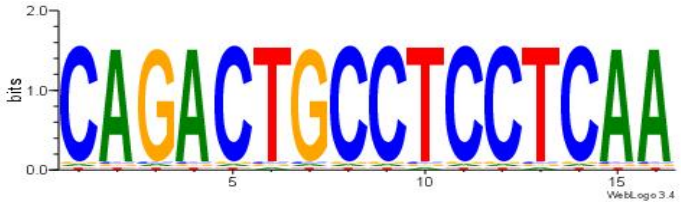

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

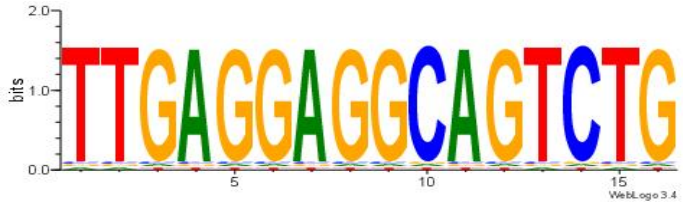

Dataset #: 1

Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0698547

Alignment:

```
CCCTCACTGCCCGGGG
----CACTTCCTA---
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

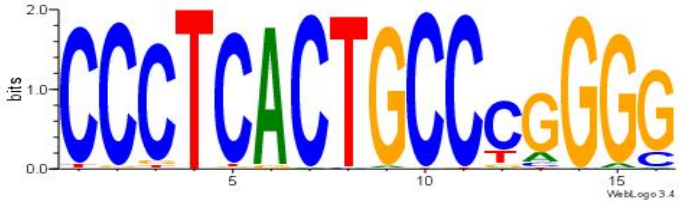

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

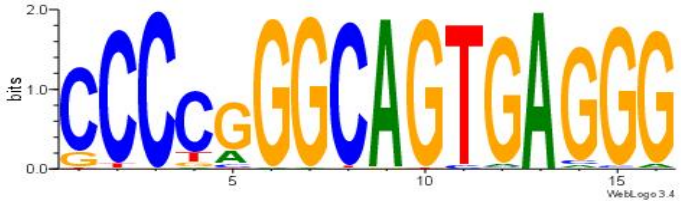

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9

Similarity score: 0.0712034

Alignment:
AGGTCCTTCAGGAGGTATTC
--------TAGGAAGTG---

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

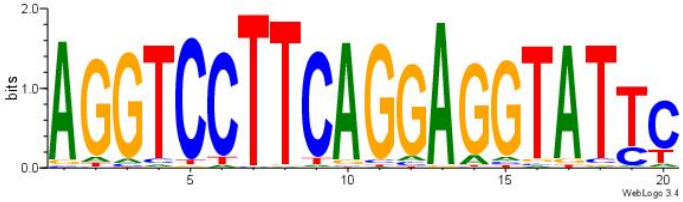

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

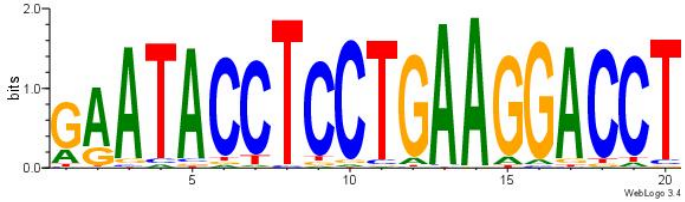

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 11
Number of overlap: 9
Similarity score: 0.0730688

Alignment:
GAAACTGCTTTGTGATGTGT
----------TAGGAAGTG-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

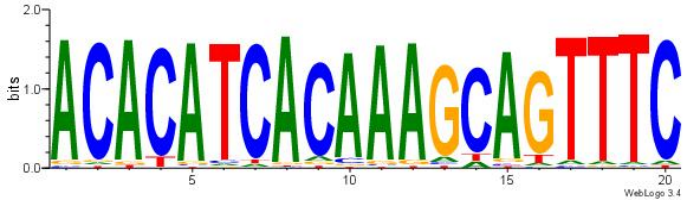

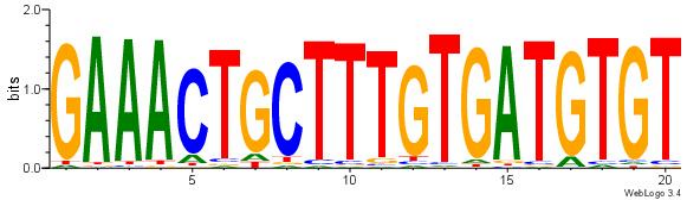

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0732357

Alignment:

```
CATTTCCAWCTGAGGTAC
CACTTCCTA---------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

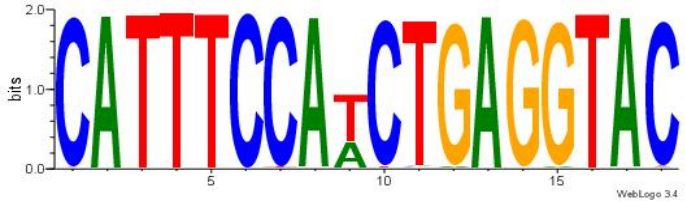

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

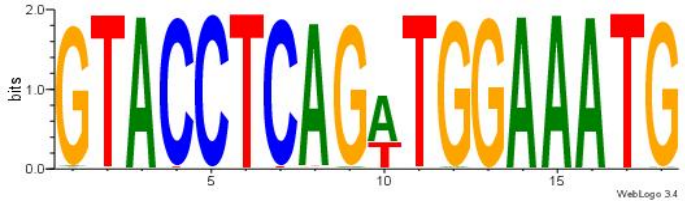

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.073485

Alignment:

```
GCCAATTTCTCCCATTTGGA
--CACTTCCTA---------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

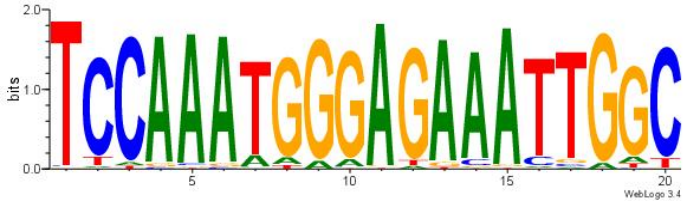

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

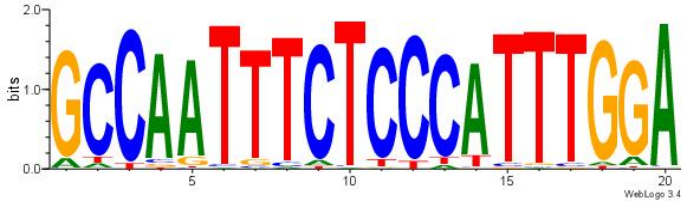

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9

Similarity score: 0.0738929

Alignment:
GTTATTAATTGGCCTAATTT
--TAGGAAGTG---------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

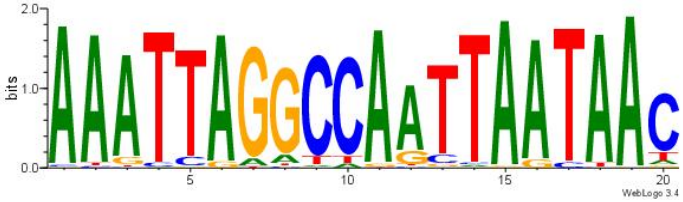

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 9
Similarity score: 0.0748509

Alignment:
ATCTGACAGGAGGYRGAGCT
------TAGGAAGTG-----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

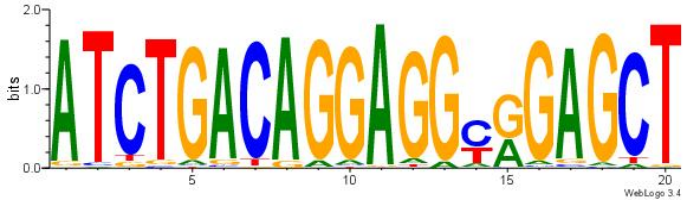

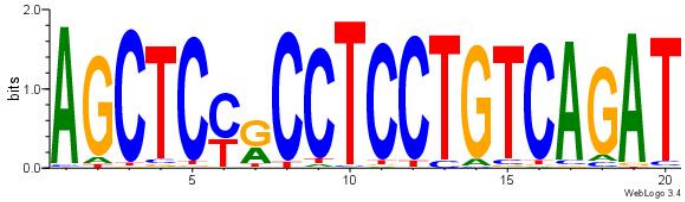

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0757566

Alignment:

```
GGTTTTCCATTCCTGAG
------CACTTCCTA--
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

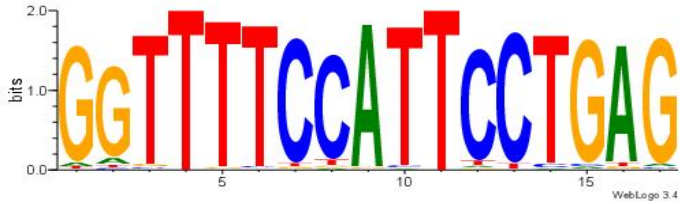

Dataset #:	1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0769531

Alignment:

```
GCAGCTTCACTCCTGA
-------CACTTCCTA
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

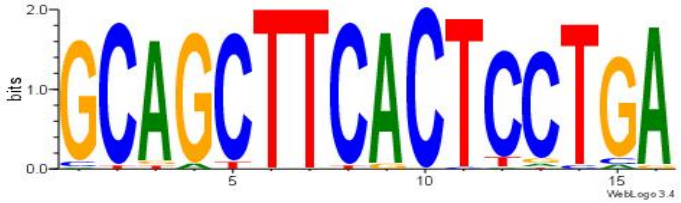

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

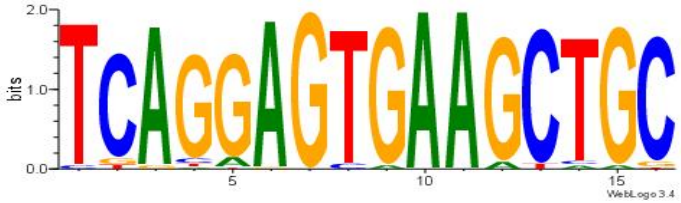

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.0771042

Alignment:
AAGTCTCCCAATTACAACT
--------CACTTCCTA--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

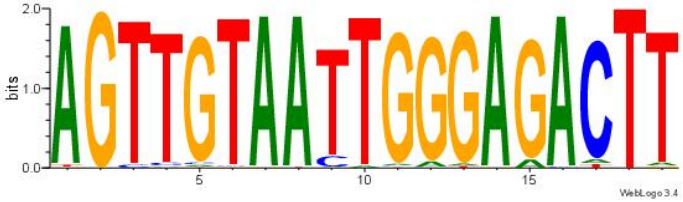

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

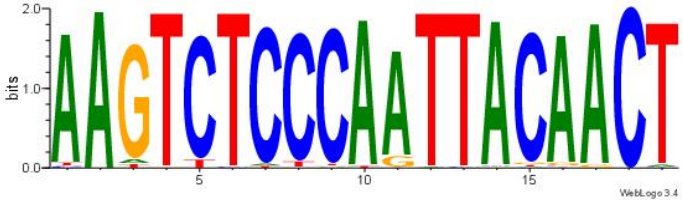

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 12
Number of overlap: 9
Similarity score: 0.0785197

Alignment:
TCTGGAGTGGACCTCCAGCA
TAGGAAGTG----------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

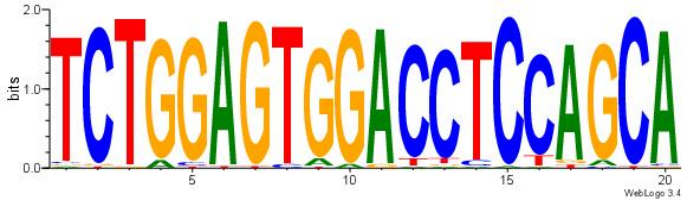

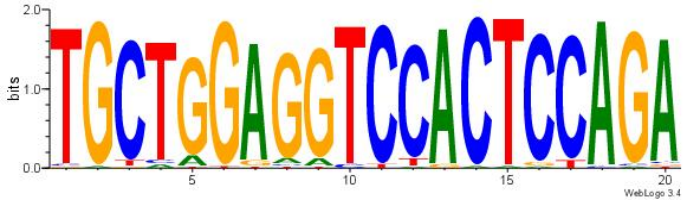

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0789862

Alignment:

```
CTCCATGAAGTC
---TAGGAAGTG
```

Original motif Consensus sequence: CTCCATGAAGTC

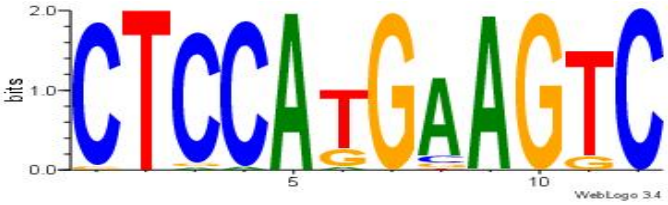

Reverse complement motif Consensus sequence: GACTTCATGGAG

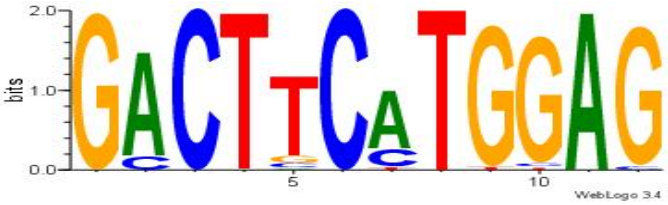

Dataset #:	1
Motif ID:	105

Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0791789

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
---------TAGGAAGTG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

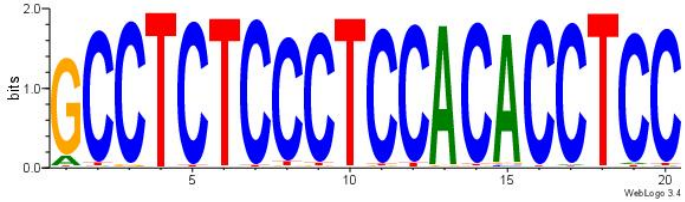

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

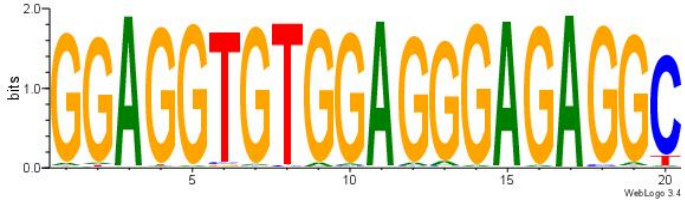

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0797624

Alignment:
AACCCTATTGTGAACTGYG
--------TAGGAAGTG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

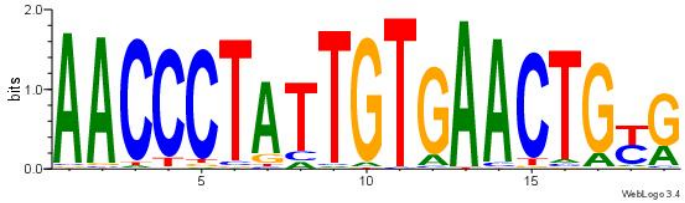

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

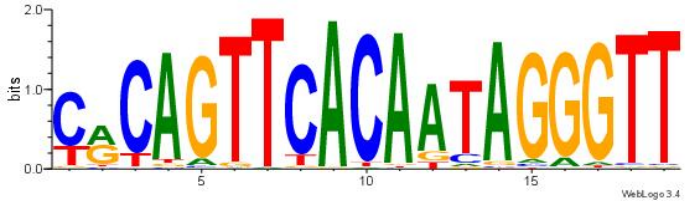

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0803929

Alignment:
ATGTGGAGGTGGAAGACAGT
--TAGGAAGTG---------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

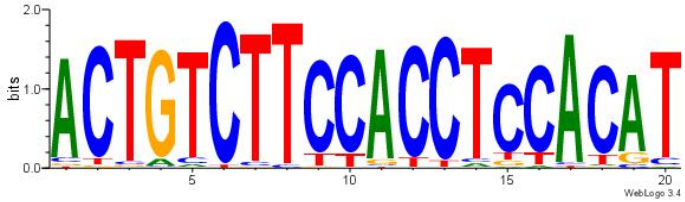

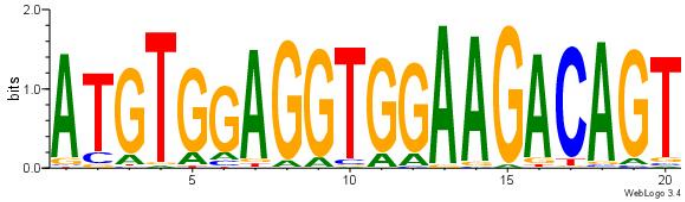

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0806884

Alignment:

```
CCCTGCTAGAACCTCCAA
---------CACTTCCTA
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

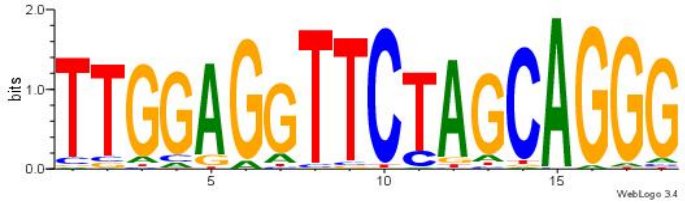

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0813477

Alignment:

```
GGATTTMKGACTTGCATGGG
-----TAGGAAGTG------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

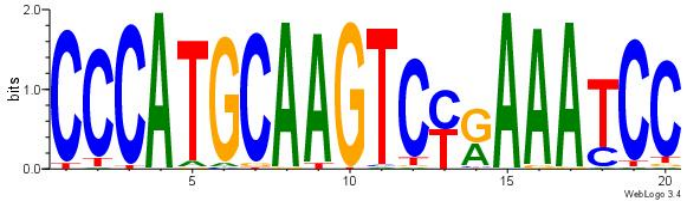

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

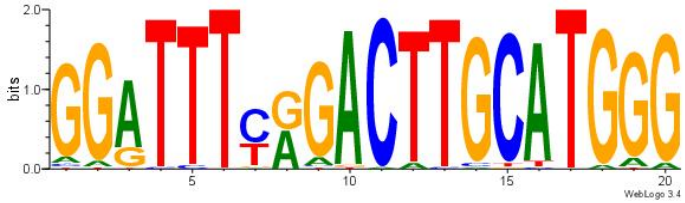

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9

Similarity score: 0.0817538

Alignment:
AGCTGTGAGAAGAGGGCCAC
-----TAGGAAGTG------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

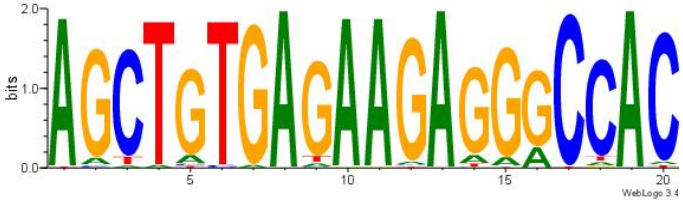

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

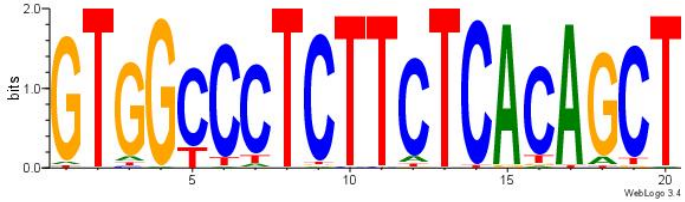

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 9
Similarity score: 0.0818926

Alignment:
ATAAAAACTTGCTGGTTTT
-----CACTTCCTA-----

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

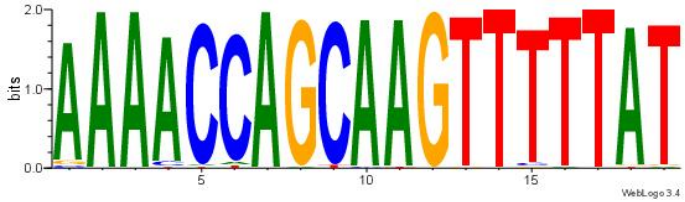

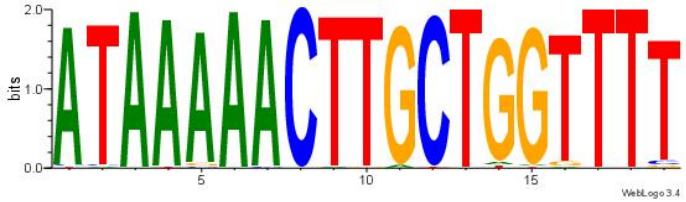

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0819688

Alignment:

```
TGTGAAGAGACCACCAA
TAGGAAGTG--------
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

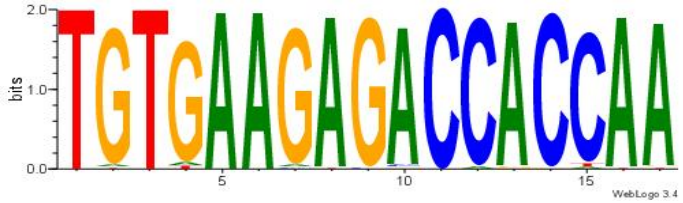

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

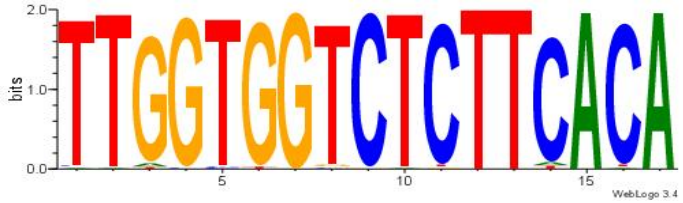

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.082416

Alignment:

```
GGCATCACGGATCCTACCAA
-------CACTTCCTA----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

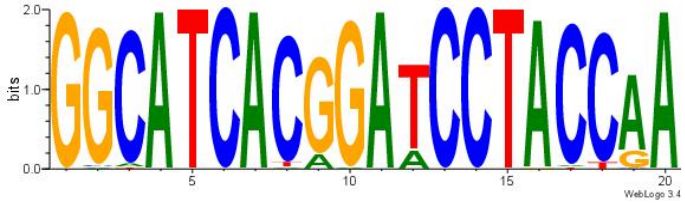

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

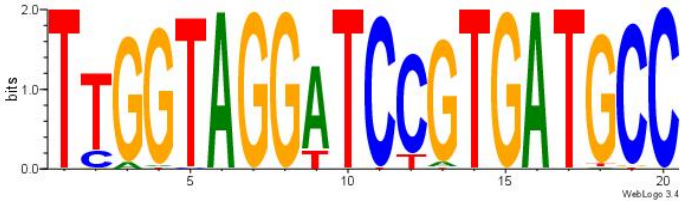

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.0824281

Alignment:
TAMGACCTCAGGTCCTCAG
--------CACTTCCTA--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

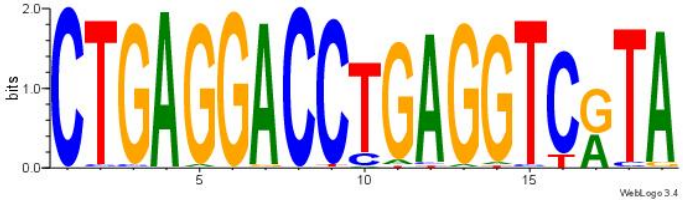

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

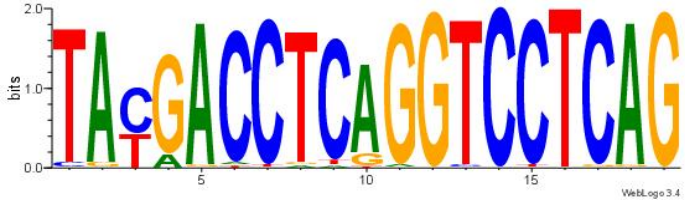

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0827518

Alignment:
AAGCAGGGCGAGGCATTGCC
--TAGGAAGTG---------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

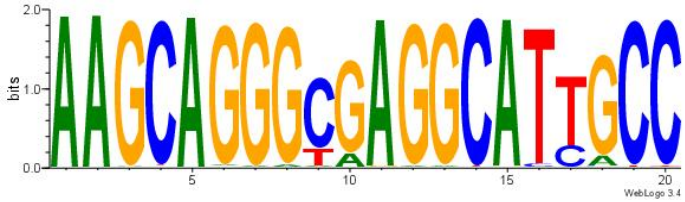

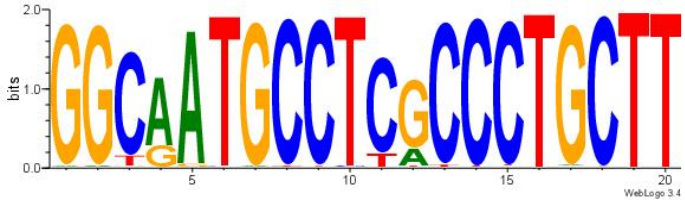

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0831342

Alignment:

```
CCCACACCCTTATTA
--CACTTCCTA----
```

Original motif Consensus sequence: CCCACACCCTTATTA

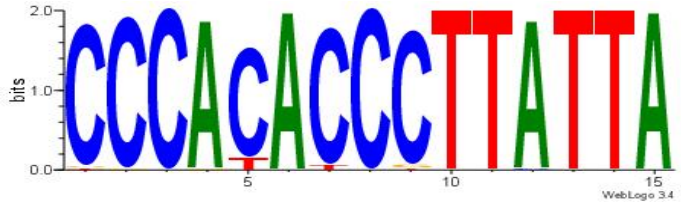

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

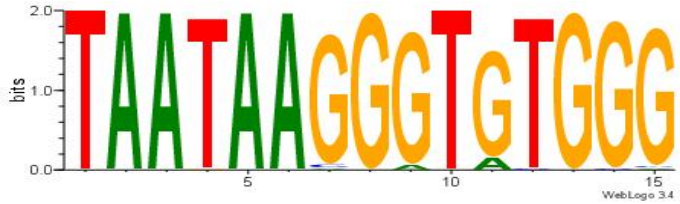

Dataset #:	1
Motif ID:	30

Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0838574

Alignment:

```
AGGAGCGCCTCTKCCCGGC
--------CACTTCCTA--
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

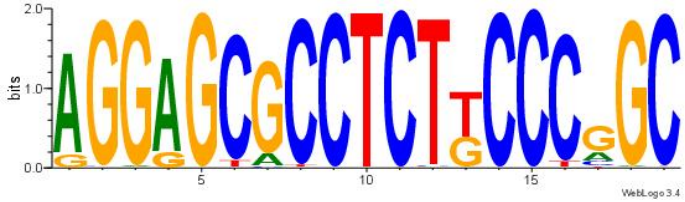

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

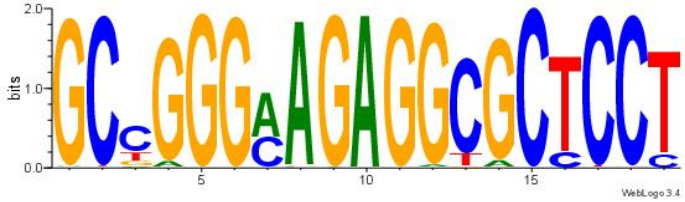

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0838751

Alignment:
CATTATGCTAARTG
-----TAGGAAGTG

Original motif Consensus sequence: CATTATGCTAARTG

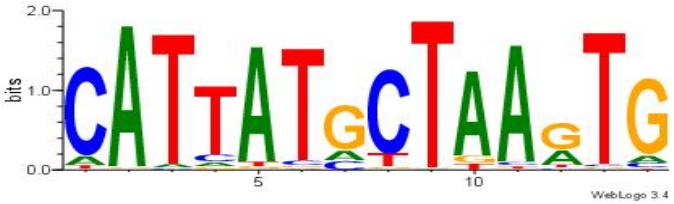

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

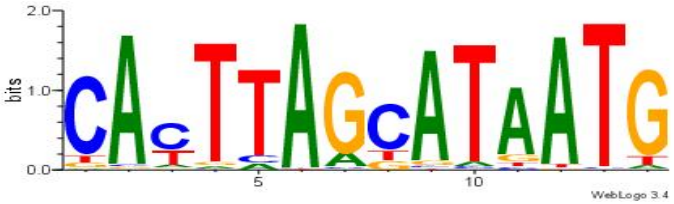

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0845004

Alignment:
GCCTCACTGCCRC
----CACTTCCTA

Original motif Consensus sequence: GCCTCACTGCCRC

Reverse complement motif Consensus sequence: GKGGCAGTGAGG

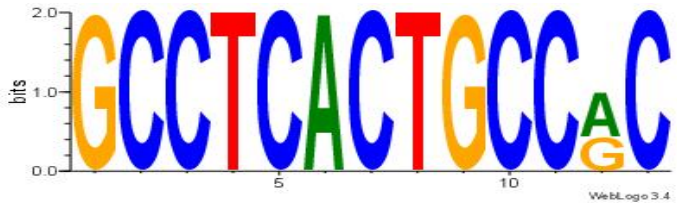

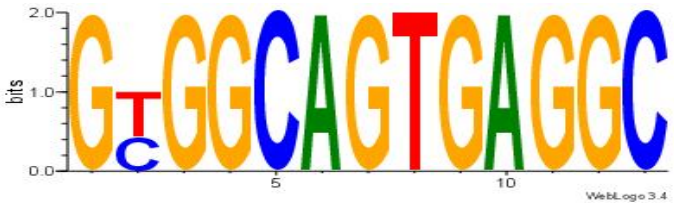

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0852793

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------TAGGAAGTG-----
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

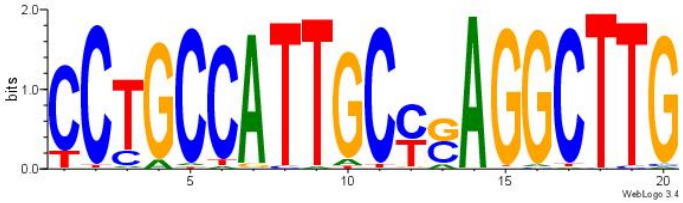

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

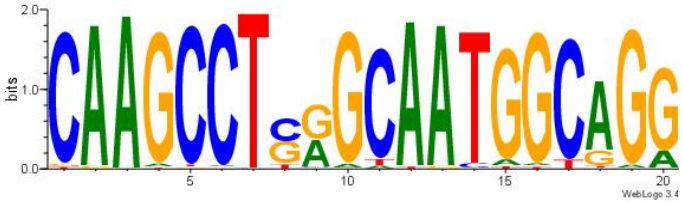

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0853902

Alignment:

```
GCCAGGCAGAGRGKCTCCT
--------TAGGAAGTG--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

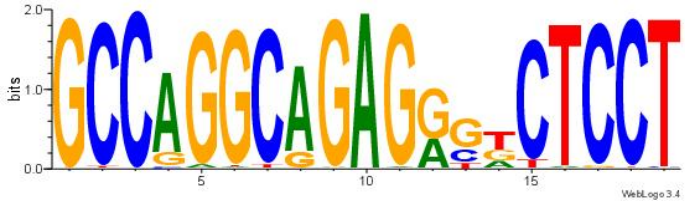

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

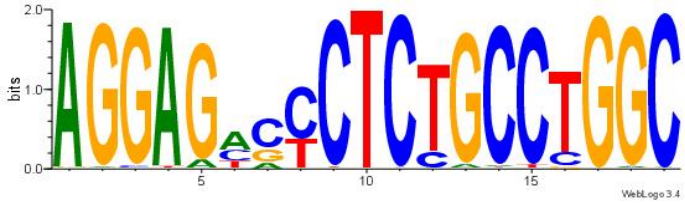

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9

Similarity score: 0.0873634

Alignment:
GTGCCAGGCACTGTKCTARG
-------TAGGAAGTG----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

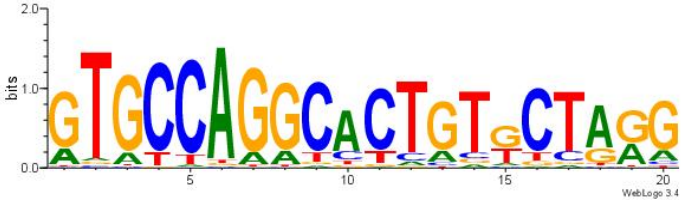

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

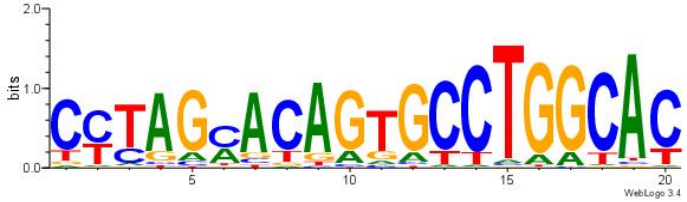

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0877104

Alignment:
AGGGATCTAGGTTGCR
-------TAGGAAGTG

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

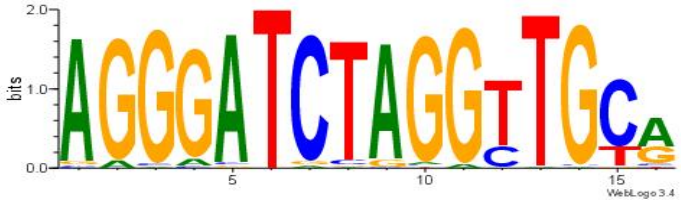

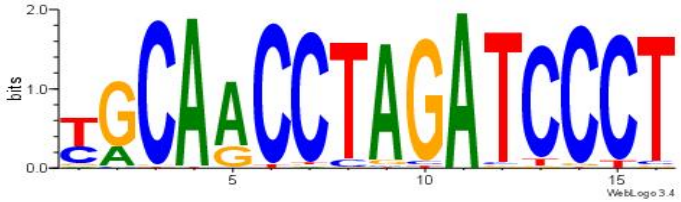

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0877384

Alignment:

```
CGCACTCCTCAGCC
--CACTTCCTA---
```

Original motif Consensus sequence: CGCACTCCTCAGCC

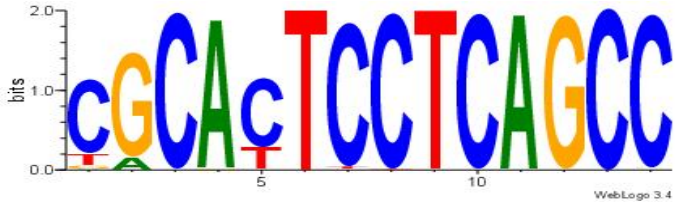

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

Dataset #:	1
Motif ID:	254

Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0879414

Alignment:

```
ATAGGAATGCTTGTGATTTT
-TAGGAAGTG----------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

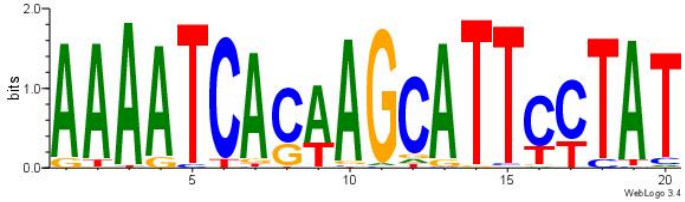

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

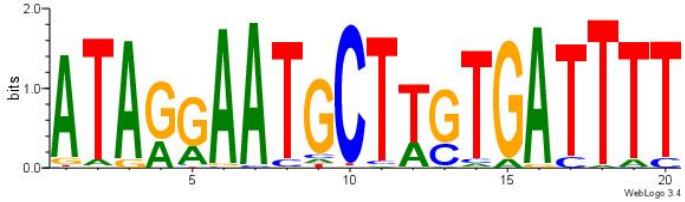

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.088762

Alignment:
AAGGAAAAGAAA
---TAGGAAGTG

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

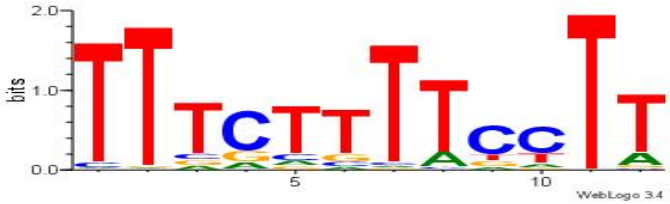

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0887777

Alignment:
GAAAGGGAACTCCCTGACCC
-------CACTTCCTA----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

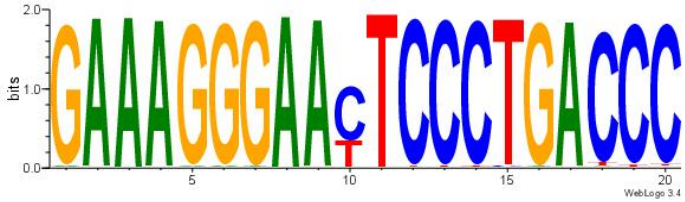

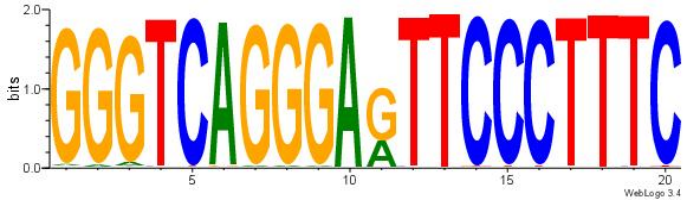

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0889205

Alignment:

```
TAAAAGACTACAWATTGGGT
-----CACTTCCTA------
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

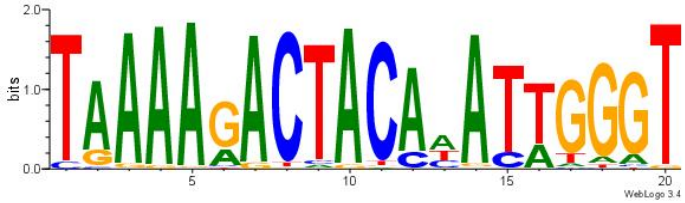

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

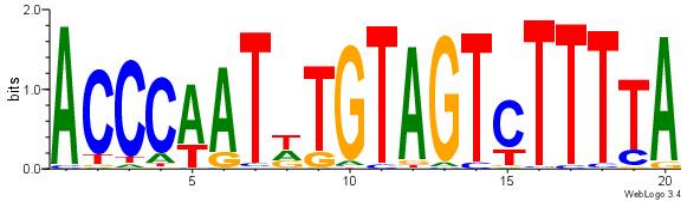

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0898346

Alignment:

```
GCCGTTTKTTAAGCCCGTY
--CACTTCCTA--------
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

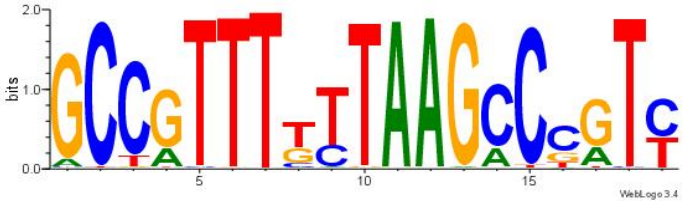

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

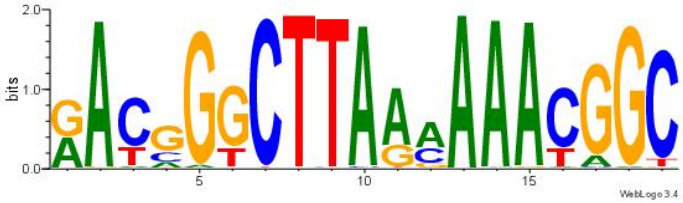

Dataset #: 1 Motif ID: 114 Motif name: Motif 114

Original motif Consensus sequence: CTACGTTCTC

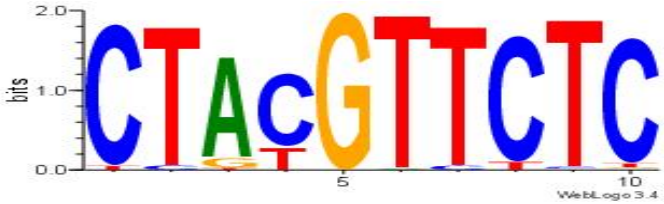

Reverse complement motif Consensus sequence: GAGAACGTAG

Best Matches for Motif ID 114 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0559267

Alignment:

```
AAAMAMMKMATGTTCTCACT
---CTACGTTCTC-------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

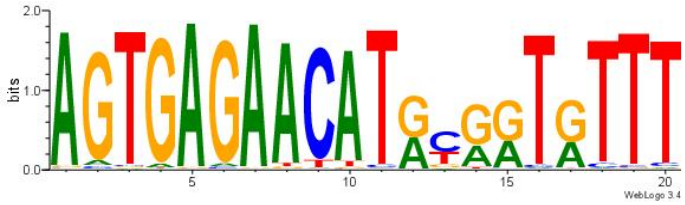

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

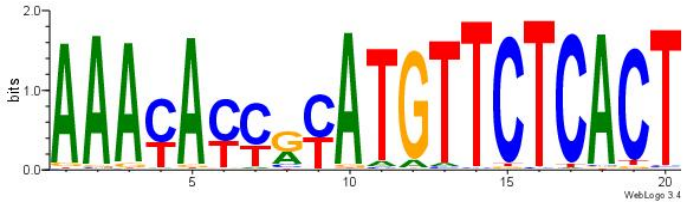

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0641267

Alignment:

```
TCCAAATGGGAGAAATTGGC
---------GAGAACGTAG-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

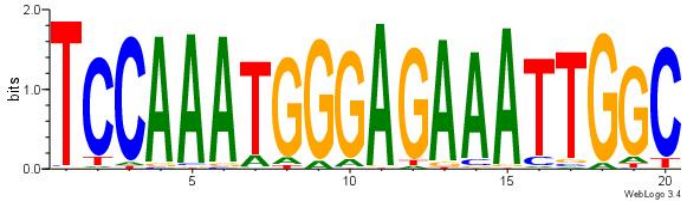

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

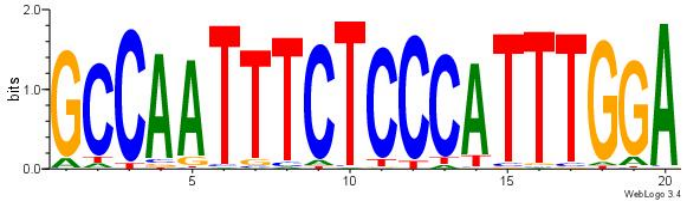

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.064949

Alignment:

```
TGTCCATGTGTTCTC
-----CTACGTTCTC
```

Original motif Consensus sequence: GAGAACACATGGACA

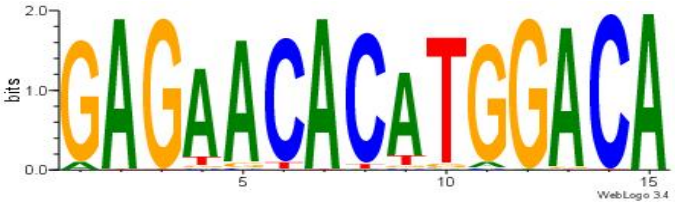

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

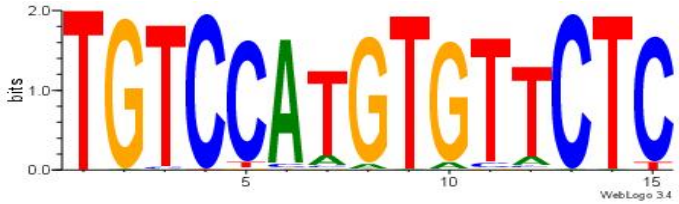

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0660371

Alignment:

```
CATTAGATTCTCATAGGA
--CTACGTTCTC------
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

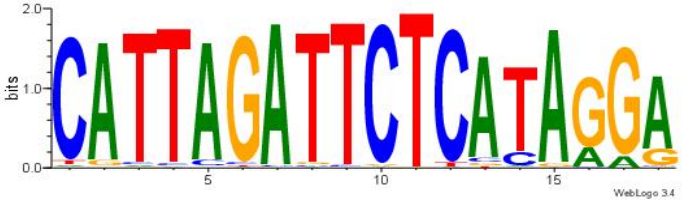

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

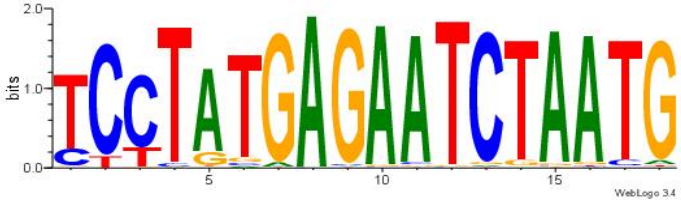

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0692709

Alignment:

```
CAGACTGCCTCCTCAA
----CTACGTTCTC--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

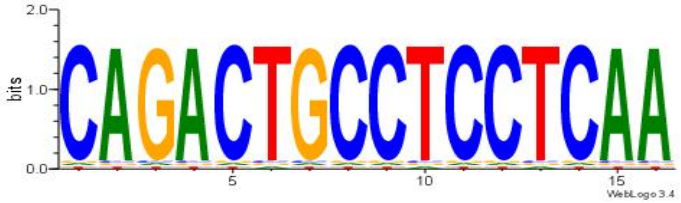

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

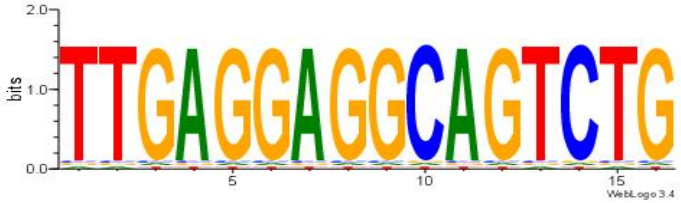

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 10
Similarity score: 0.073001

Alignment:
CCATGTGSTCCC
CTACGTTCTC--

Original motif Consensus sequence: CCATGTGSTCCC

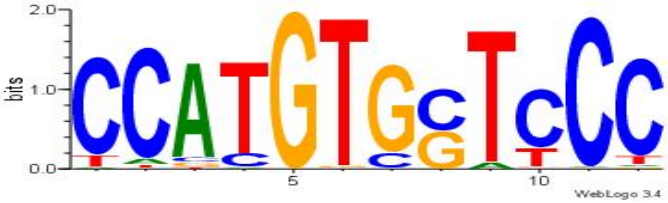

Reverse complement motif Consensus sequence: GGGASCACATGG

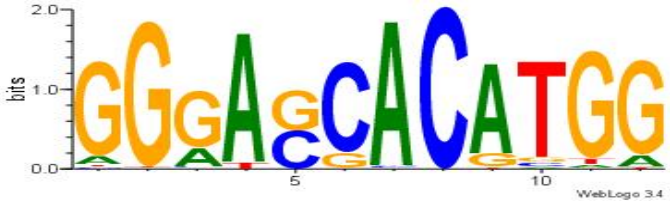

Dataset #: 1
Motif ID: 365
Motif name: Motif 365
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0739854

Alignment:
GTAGACCGGAGCT
-GAGAACGTAG--

Original motif Consensus sequence: AGCTCCGGTCTAC

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

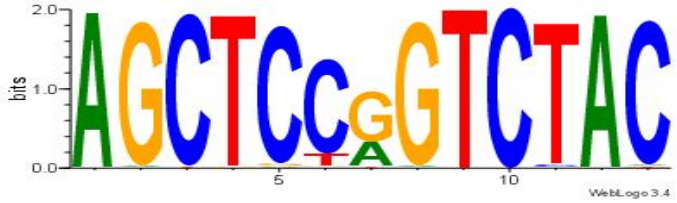

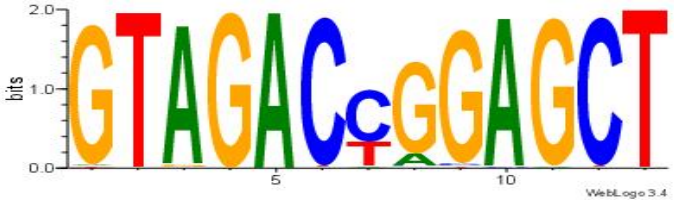

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0769875

Alignment:

```
GCTGCARTCTCGGCACTTT
-CTACGTTCTC--------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

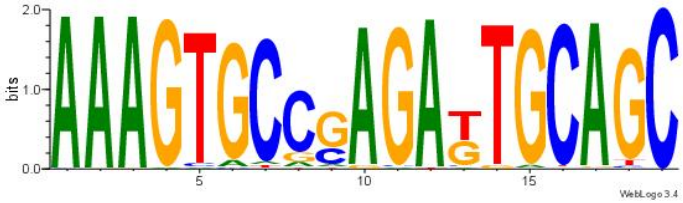

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

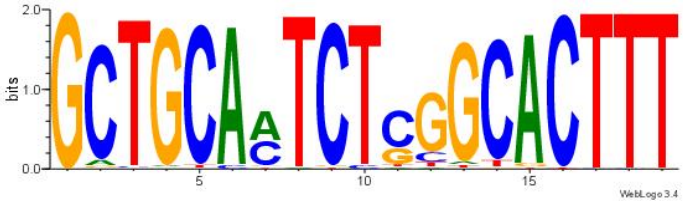

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0776136

Alignment:

```
VMATTTAKTGAGCACCTACT
---------GAGAACGTAG-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

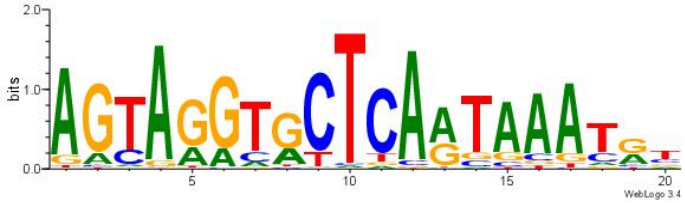

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

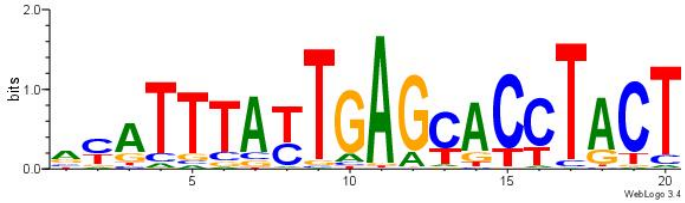

Dataset #:	1
Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0776181

Alignment:
CTGYGTCCCCA
CTACGTTCTC-

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0785757

Alignment:
CCCGAAGCTGCRYRCTCGGT
-------CTACGTTCTC---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

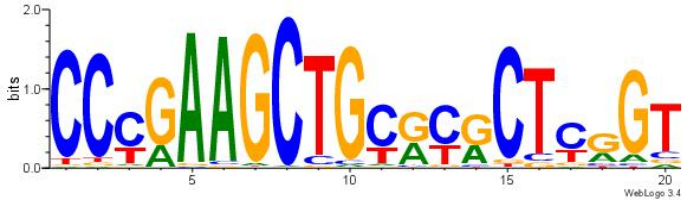

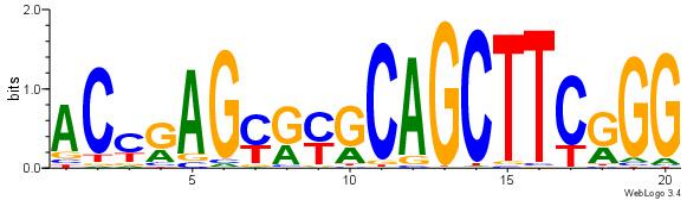

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0786326

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
----------GAGAACGTAG
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

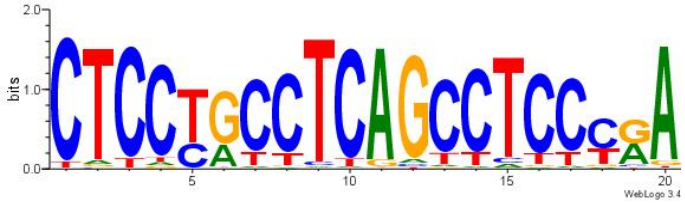

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

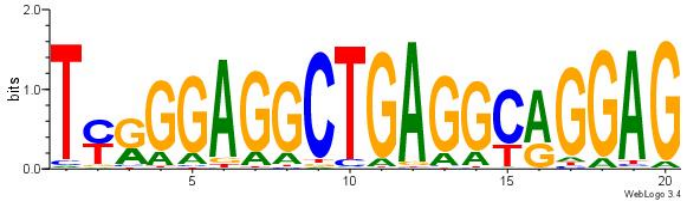

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.080546

Alignment:

```
TGGAGAACCTTTATGTCTAG
--GAGAACGTAG--------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

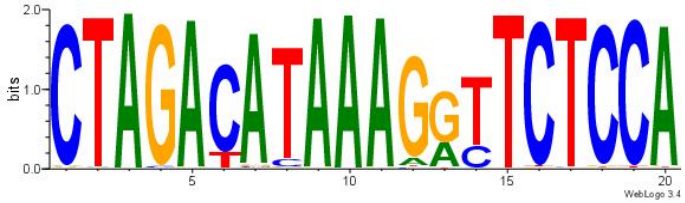

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

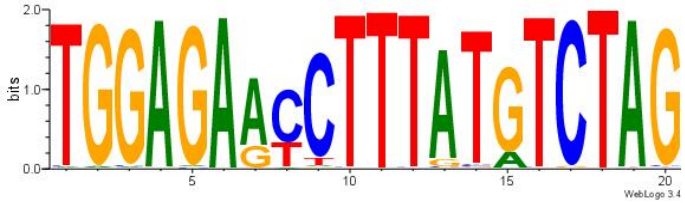

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.080733

Alignment:
CTASAACCTCCA
CTACGTTCTC--

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

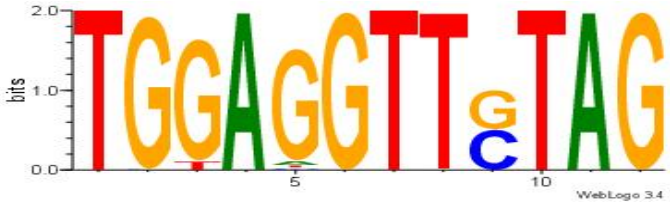

Dataset #: 1
Motif ID: 47
Motif name: Motif 47
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0812461

Alignment:
MGGAAACTGAGGC
-GAGAACGTAG--

Original motif Consensus sequence: GCCTCAGTTTCCY

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

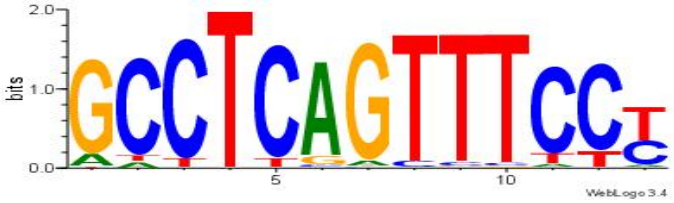

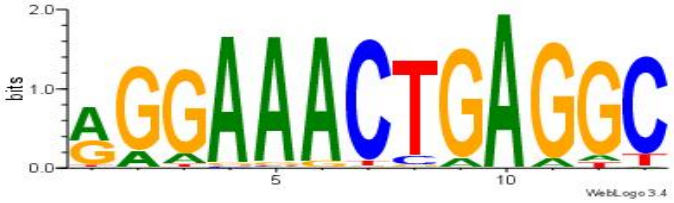

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0815636

Alignment:

```
GCAGTGAGCYRAGA
-GAGAACGTAG---
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

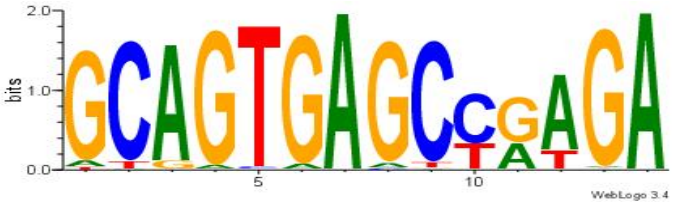

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

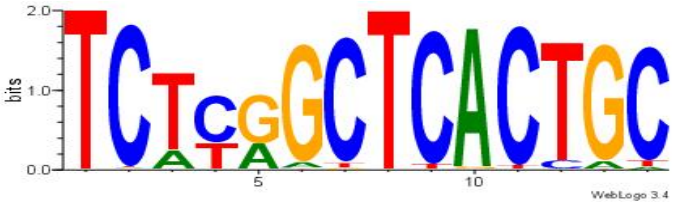

Dataset #:	1
Motif ID:	211

Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0819197

Alignment:

```
GACTTCAAGAATGAAGCCG
------GAGAACGTAG---
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

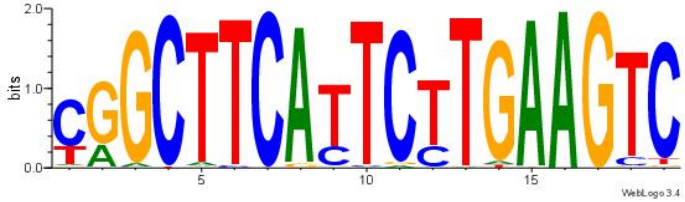

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0819558

Alignment:
KGAGAACAGTAGGG
-GAGAACGTAG---

Original motif Consensus sequence: CCCTACTGTTCTCY

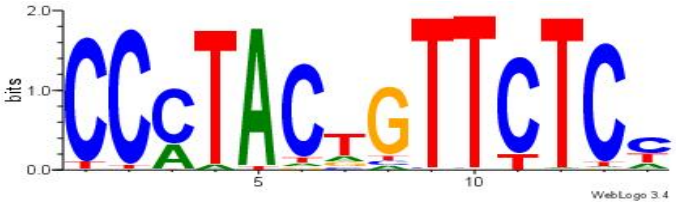

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

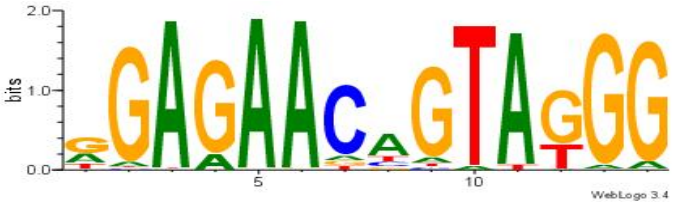

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0828256

Alignment:
AGGAACAGCTCCRGTCTAC
--------CTACGTTCTC-

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

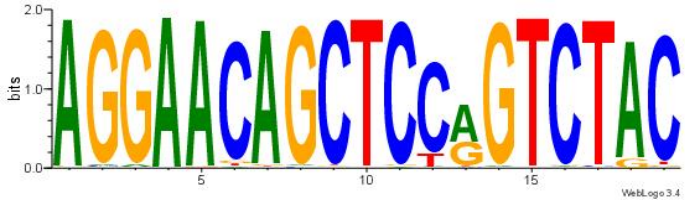

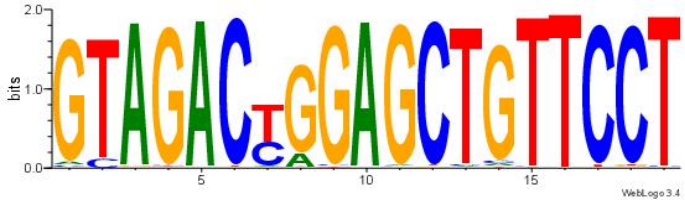

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0833662

Alignment:

```
GCGMGCGGGAACCGGGGCT
------GAGAACGTAG---
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

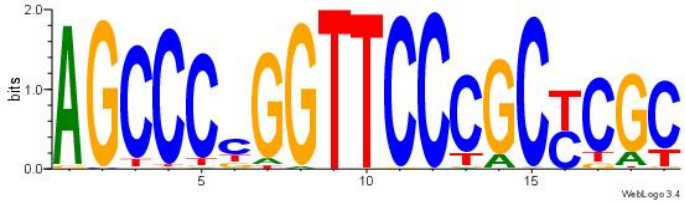

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

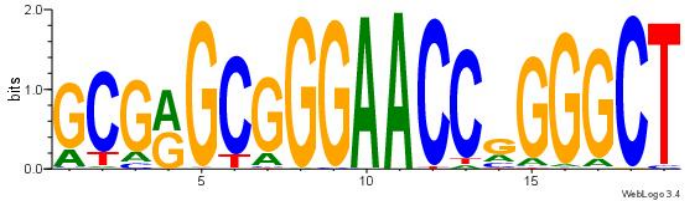

Dataset #:	1

Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0835747

Alignment:

```
TGTGACCTTGG
-GAGAACGTAG
```

Original motif Consensus sequence: CCAAGGTCACA

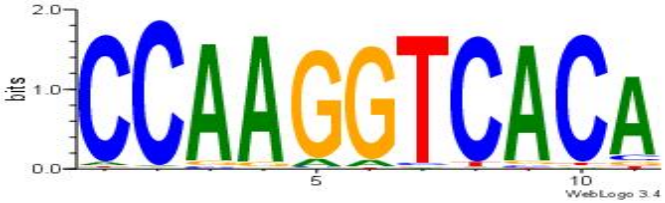

Reverse complement motif Consensus sequence: TGTGACCTTGG

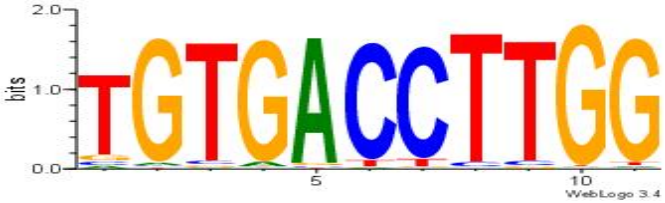

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0851936

Alignment:
GGGAGGGATATATTAGC
------GAGAACGTAG-

Original motif Consensus sequence: GGGAGGGATATATTAGC

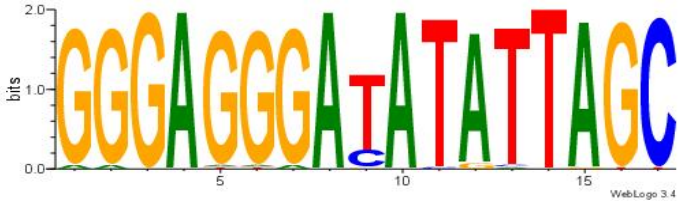

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

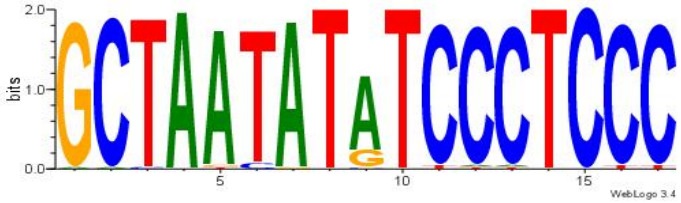

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.085593

Alignment:
TTGAGACMGKGTCT
--GAGAACGTAG--

Original motif Consensus sequence: AGACYCYGTCTCAA

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

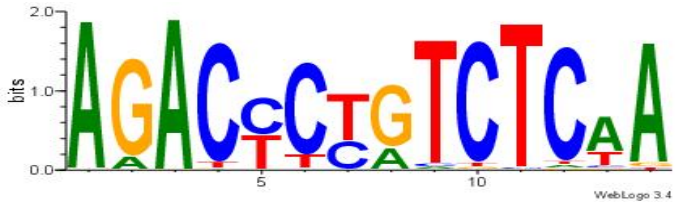

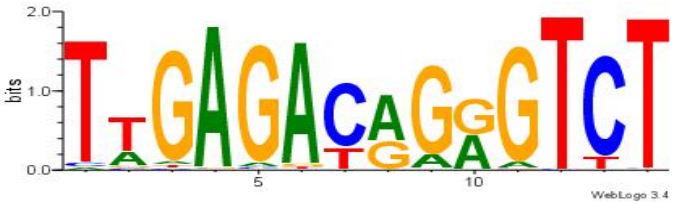

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0859725

Alignment:

```
GTGGCCCTCTTCTCACAGCT
----CTACGTTCTC------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

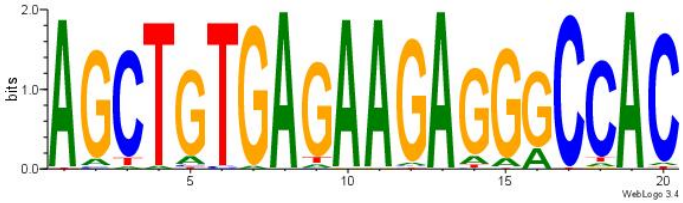

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

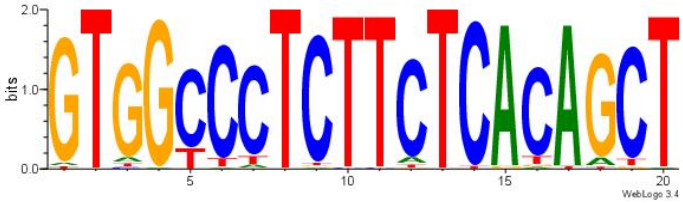

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.086239

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CTACGTTCTC----------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

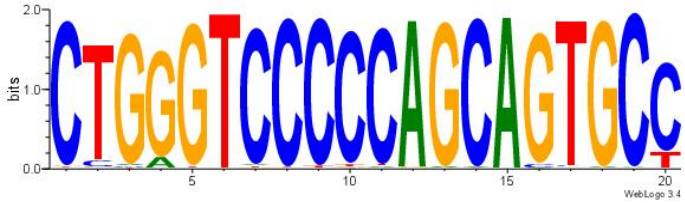

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

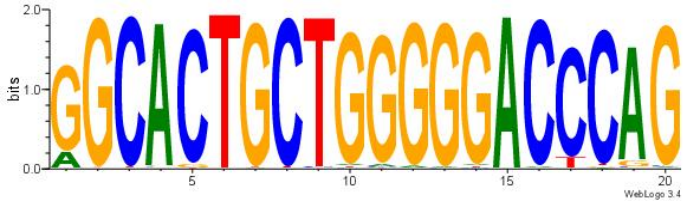

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.087084

Alignment:
CACCAGGAGATTATATCCCR
----GAGAACGTAG------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

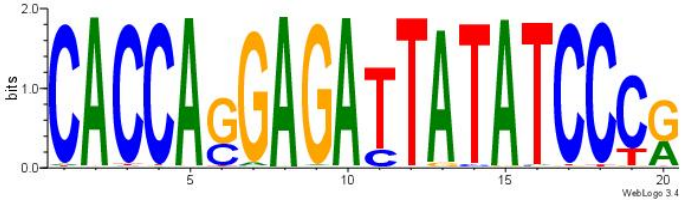

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

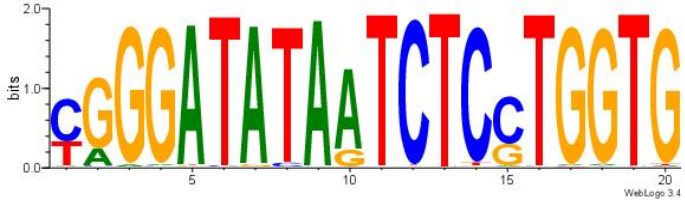

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0873119

Alignment:
KGCAACCTAGATCCCT
GAGAACGTAG------

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

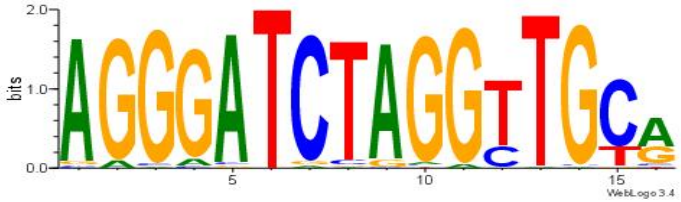

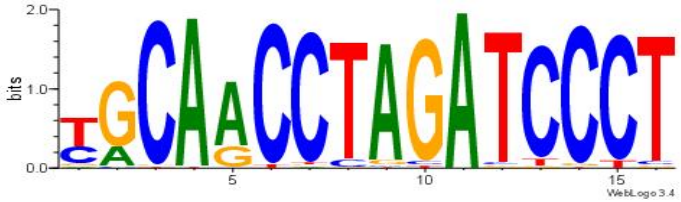

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0874909

Alignment:

```
AAAGCTGGAGCTATTATCTA
----------CTACGTTCTC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

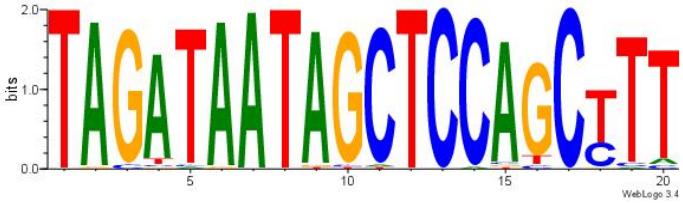

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

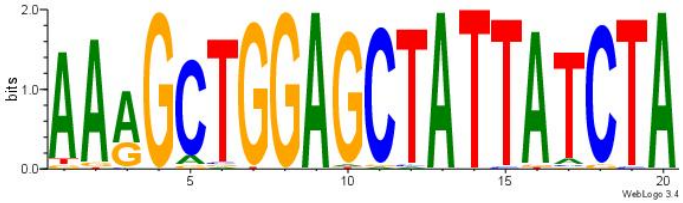

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.087649

Alignment:

```
TCAATGGGCTCCCAAATG
-CTACGTTCTC-------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

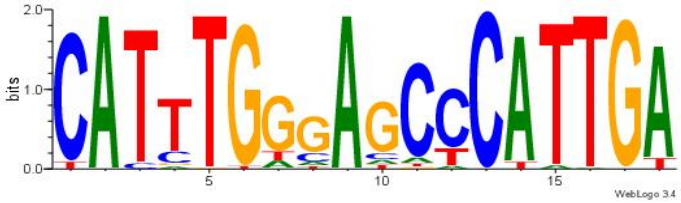

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

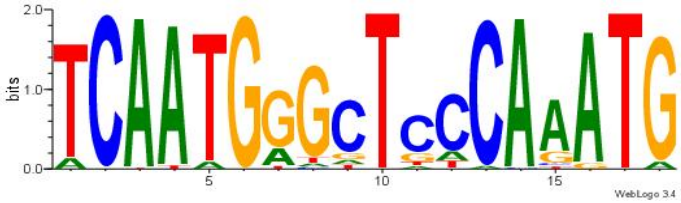

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0880942

Alignment:
CATTCTGGGGTCTGGAGGAY
----CTACGTTCTC------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

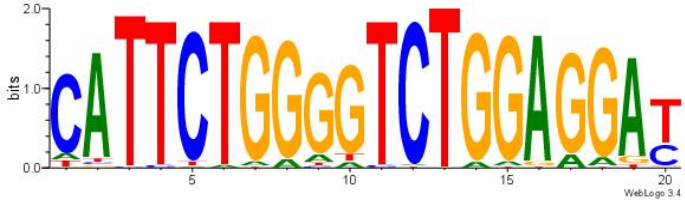

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

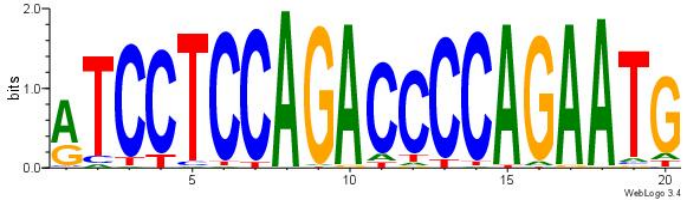

Dataset #: 1
Motif ID: 243
Motif name: Motif 243
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0891416

Alignment:
TTGAGAACCACTG
--GAGAACGTAG-

Original motif Consensus sequence: CAGTGGTTCTCAA

Reverse complement motif Consensus sequence: TTGAGAACCACTG

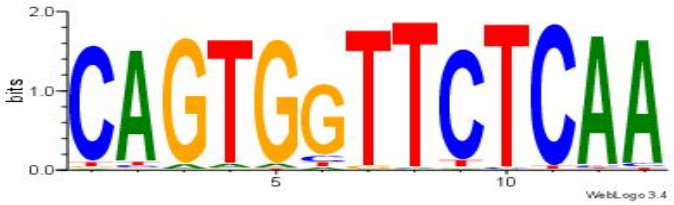

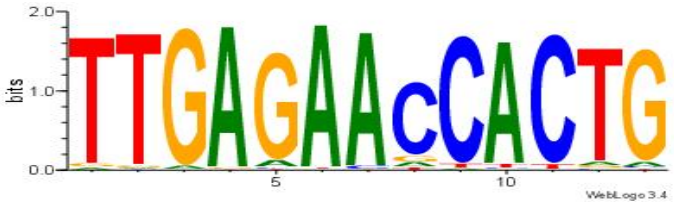

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0897345

Alignment:

```
TAMGACCTCAGGTCCTCAG
-------CTACGTTCTC--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

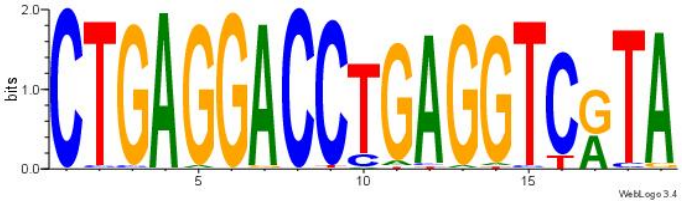

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

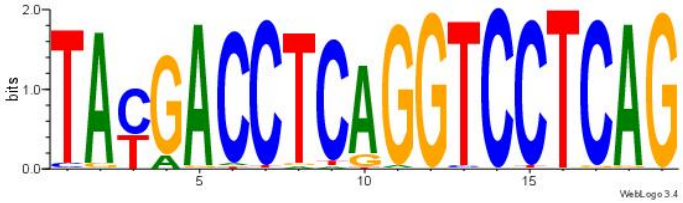

Dataset #: 1

Motif ID:	131
Motif name:	Motif 131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0903731

Alignment:

```
CCTGGGTTCAA
-CTACGTTCTC
```

Original motif Consensus sequence: CCTGGGTTCAA

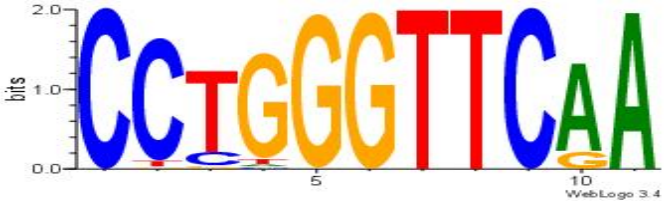

Reverse complement motif Consensus sequence: TTGAACCCAGG

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0906191

Alignment:
AACCCTATTGTGAACTGYG
---------GAGAACGTAG

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

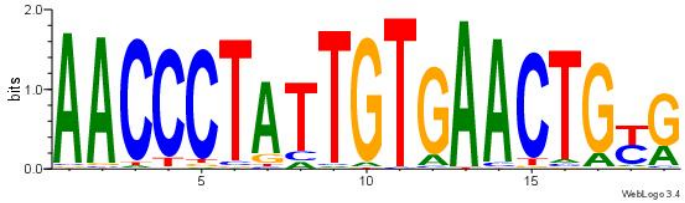

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

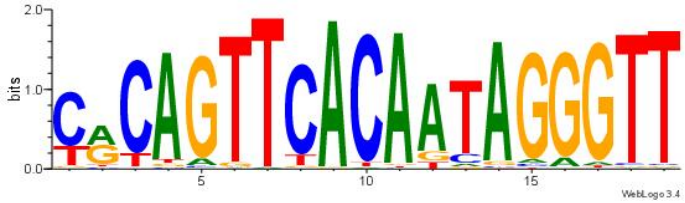

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0915707

Alignment:
GAAACTGCTTTGTGATGTGT
----CTACGTTCTC------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

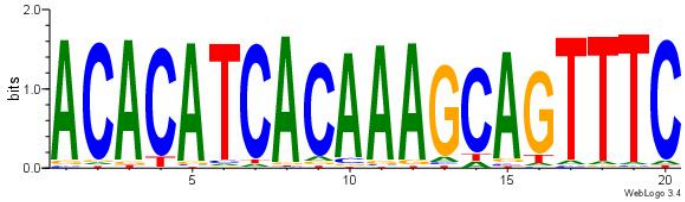

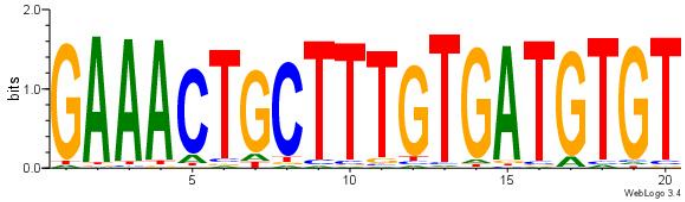

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0916882

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
------GAGAACGTAG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

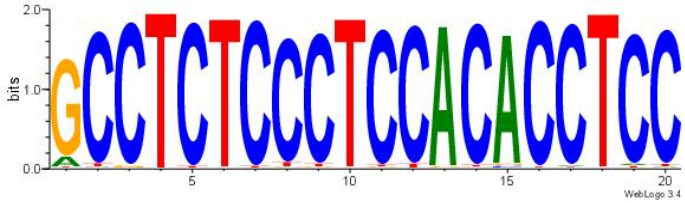

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

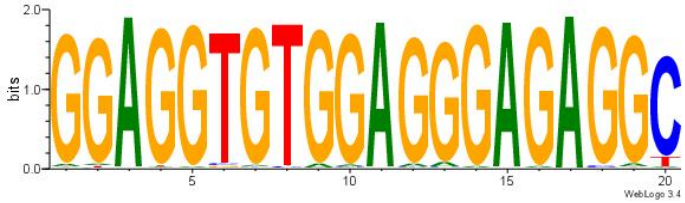

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0917521

Alignment:

```
ACTGTCTTCCACCTCCACAT
-----CTACGTTCTC-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

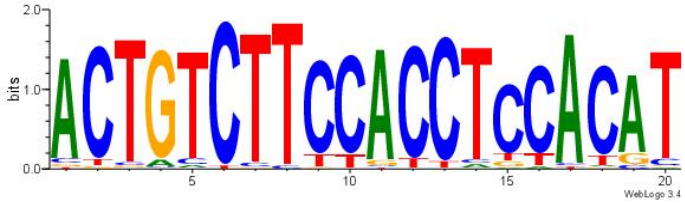

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

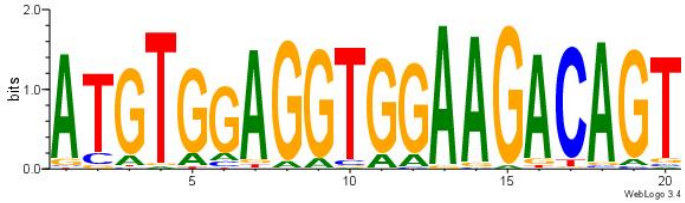

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0932474

Alignment:
GCGCTCKTCGGGGAGGCTCG
GAGAACGTAG----------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

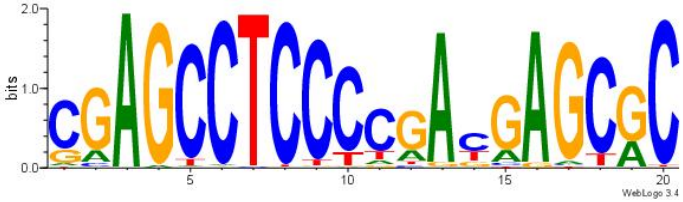

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

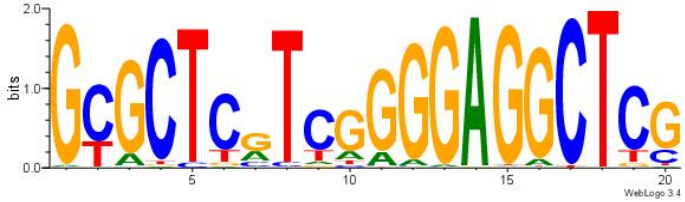

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.093365

Alignment:
AGGTCCTTCAGGAGGTATTC
--------GAGAACGTAG--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

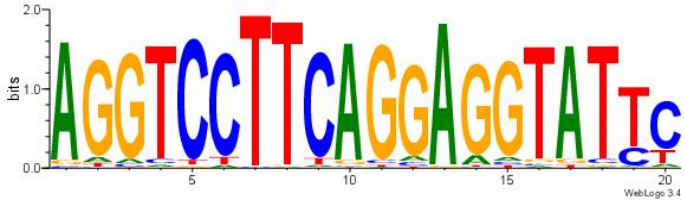

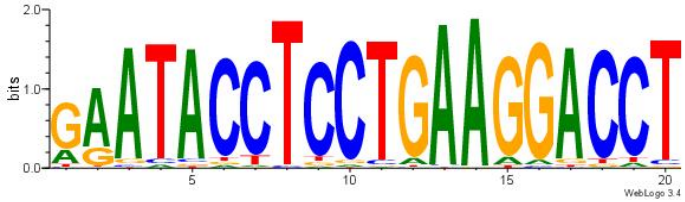

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0935789

Alignment:

```
MGCTGAGGCAGGAG
----GAGAACGTAG
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

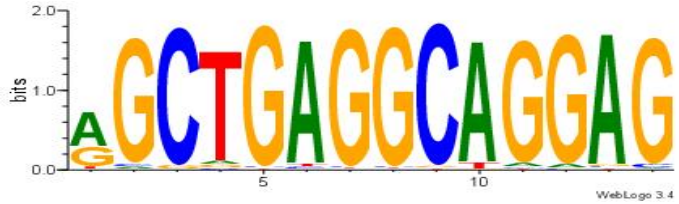

Dataset #:	1
Motif ID:	299

Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0937765

Alignment:

```
CCCTGCTAGAACCTCCAA
-----CTACGTTCTC---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

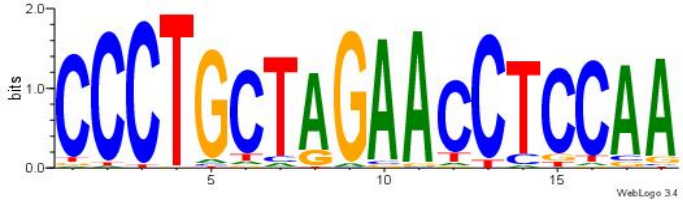

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

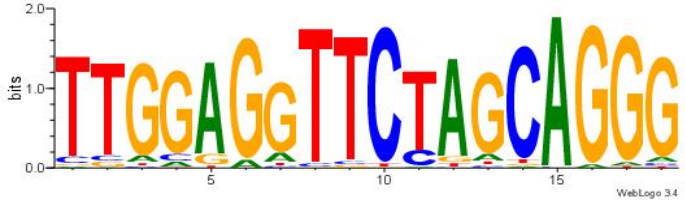

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0943974

Alignment:
GMTTAGCTCCCACTTA
-----CTACGTTCTC-

Original motif Consensus sequence: TAAGTGGGAGCTAARC

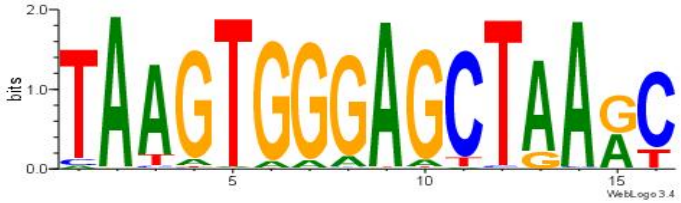

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

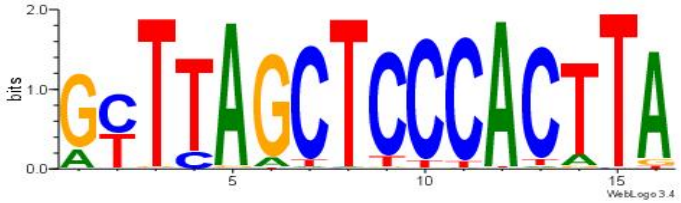

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.094478

Alignment:
CTGGGCRACAGAGYRAGACY
-------GAGAACGTAG---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

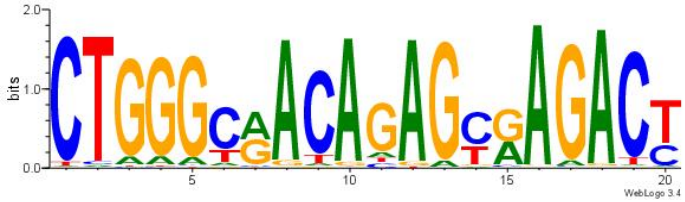

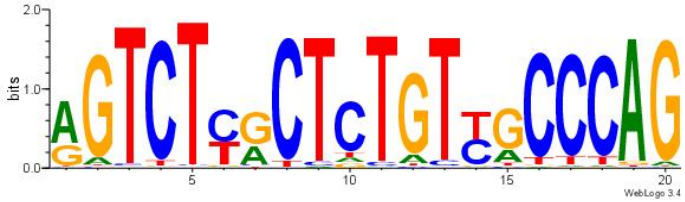

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0952792

Alignment:

```
GGAGCCCACGGAGG
---GAGAACGTAG-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

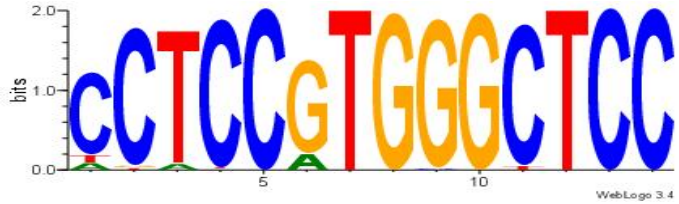

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

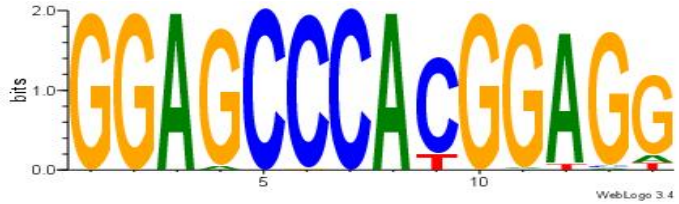

Dataset #:	1
Motif ID:	221

Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0952826

Alignment:

```
GGGAGGAAGGGGACAC
--GAGAACGTAG----
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

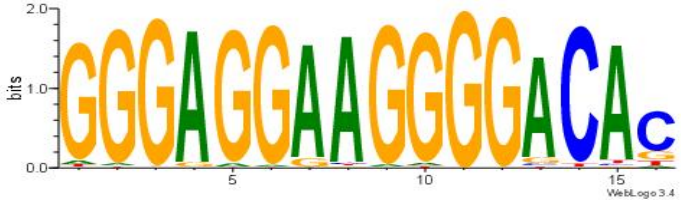

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

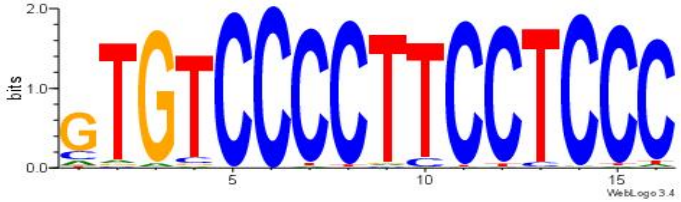

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0962909

Alignment:
CTACATGGACCTT
CTACGTTCTC---

Original motif Consensus sequence: AAGGTCCATGTAG

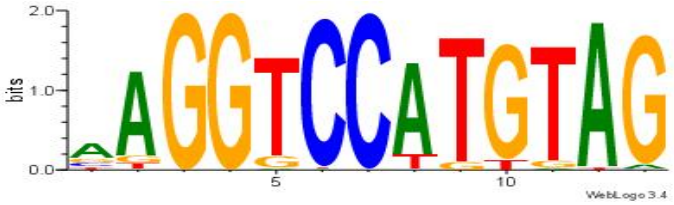

Reverse complement motif Consensus sequence: CTACATGGACCTT

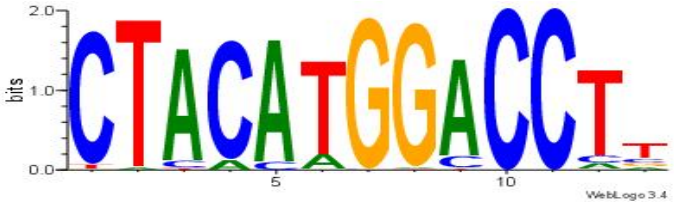

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0967291

Alignment:
AGAAATCGAGCRCAGCGCCG
-----GAGAACGTAG-----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

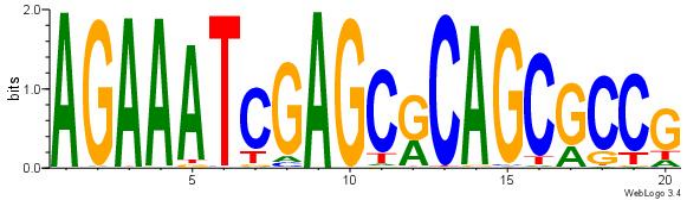

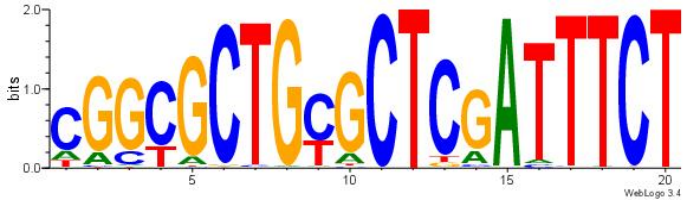

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0970156

Alignment:

```
CTCCTGACCTCGTGATC
CTACGTTCTC-------
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

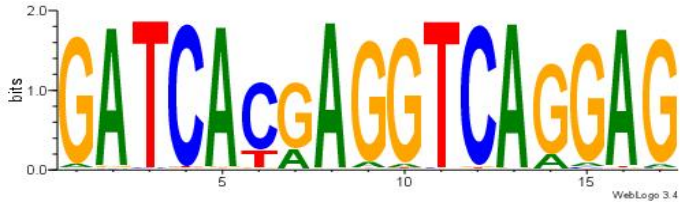

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

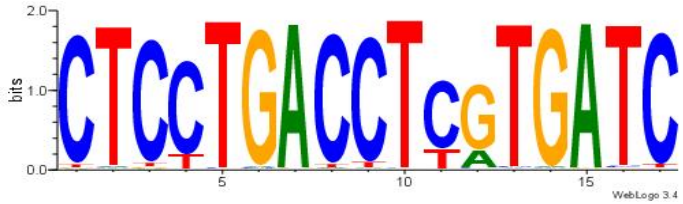

Dataset #: 1

Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0971438

Alignment:

```
GTGAGCGACGCAG
GAGAACGTAG---
```

Original motif Consensus sequence: CTGCGTCGCTCAC

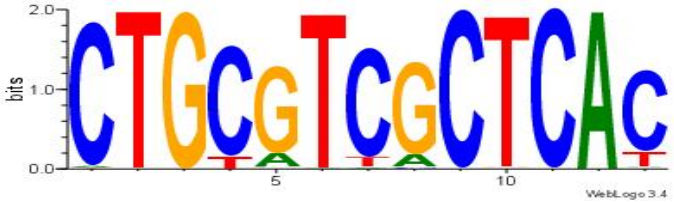

Reverse complement motif Consensus sequence: GTGAGCGACGCAG

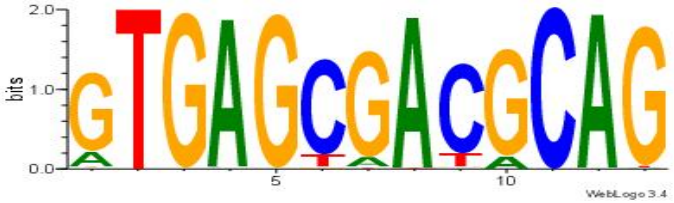

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0972351

Alignment:
GAAATTGACTTCCTCCT
-----CTACGTTCTC--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

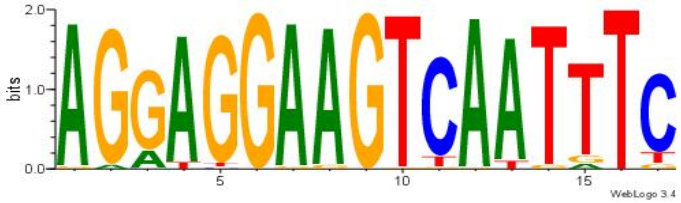

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

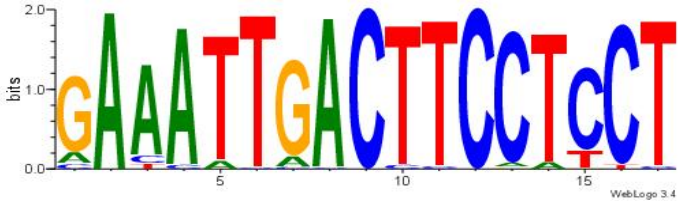

Dataset #: 1 Motif ID: 115 Motif name: Motif 115

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

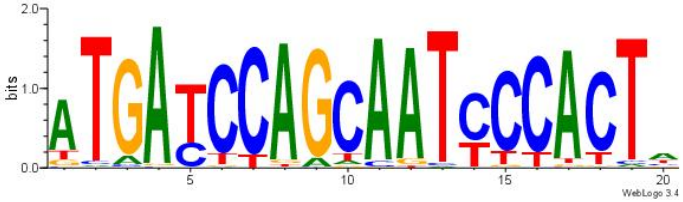

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

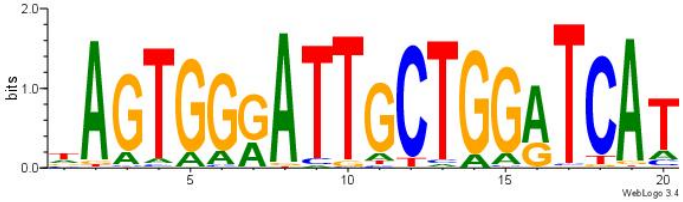

Best Matches for Motif ID 115 (Highest to Lowest)

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106467

Alignment:
AAGACCTTCCAGTGGGACAA
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

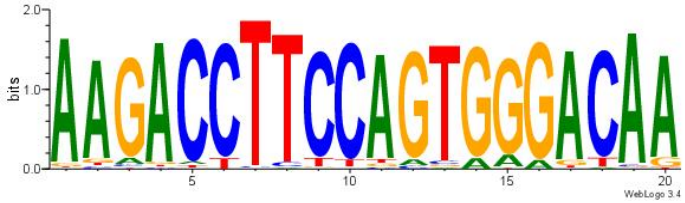

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

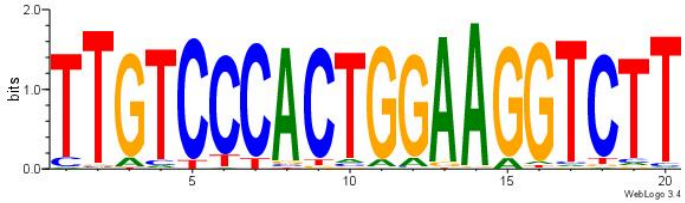

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.108003

Alignment:
CATTCTGGGGTCTGGAGGAY
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

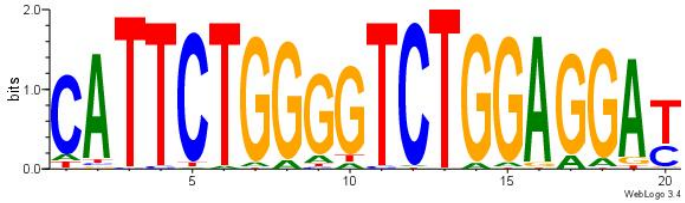

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

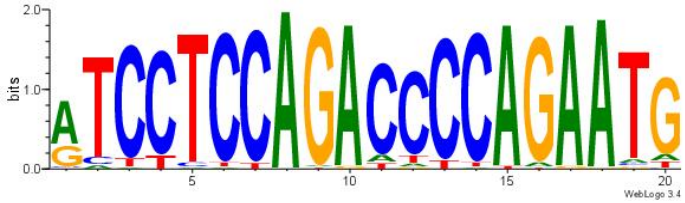

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.110049

Alignment:

```
ACTGTCTTCCACCTCCACAT
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

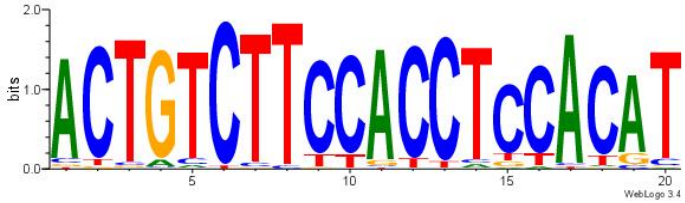

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

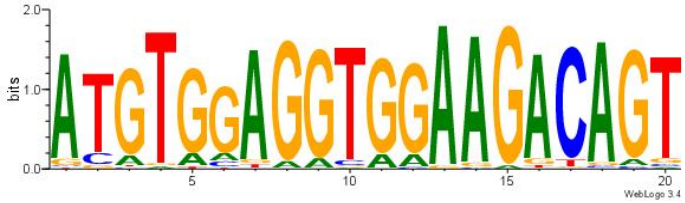

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.110453

Alignment:
AGCCYCTGGYAACCAYYAWT
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

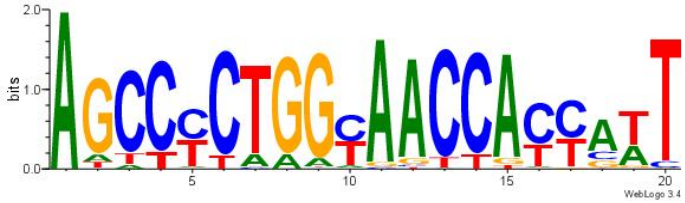

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

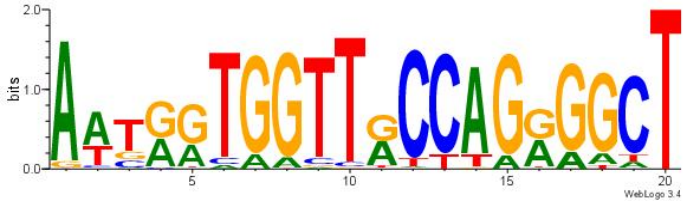

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.110612

Alignment:
CAGGTGGTKTTTGGTTACAT
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

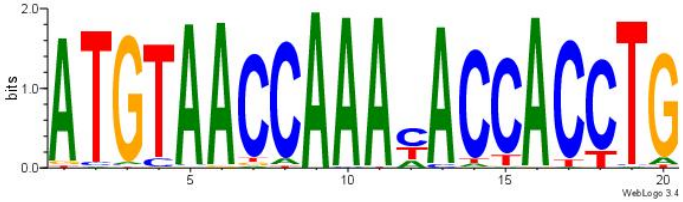

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

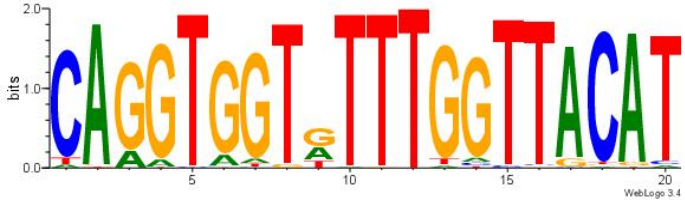

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.111059

Alignment:
ACTTTGGACTGTGGACTTTT
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

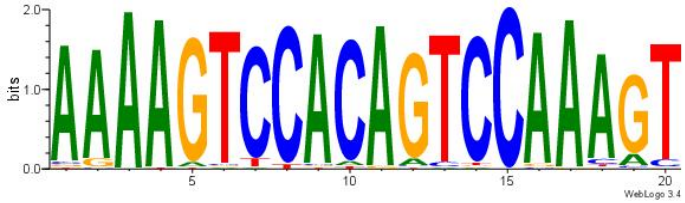

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

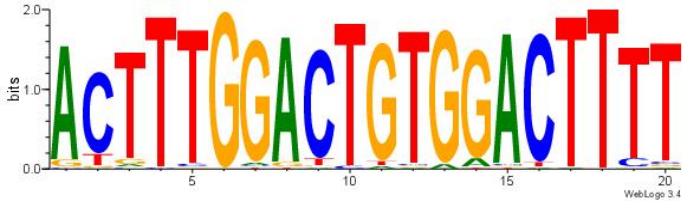

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.111859

Alignment:

```
KKCACCTTGATCTTGGACTT
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

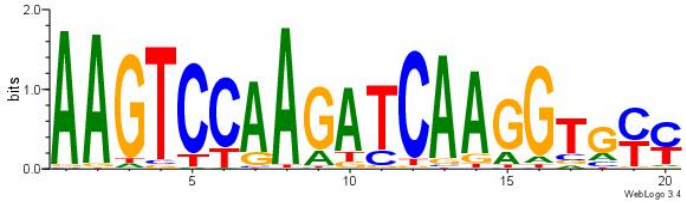

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

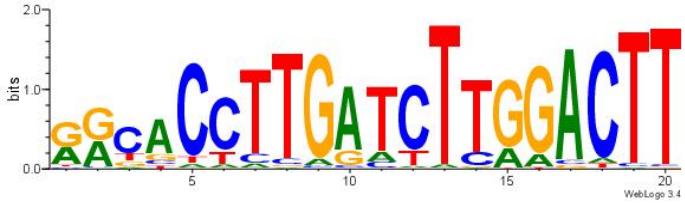

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112356

Alignment:
TMGGGAGGCTGAGGCAGGAG
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

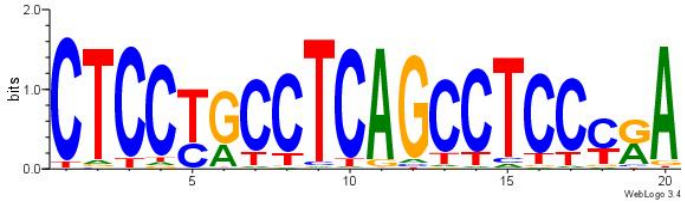

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

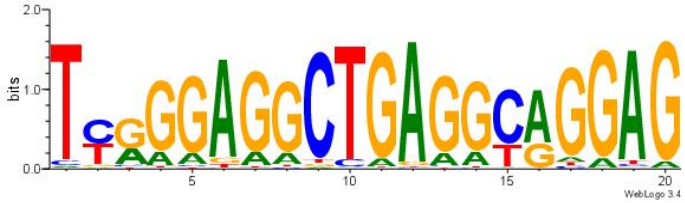

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.115684

Alignment:
GAGAGAGAGAGAGAGAGAGA
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

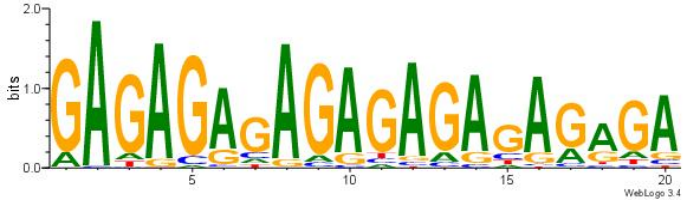

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

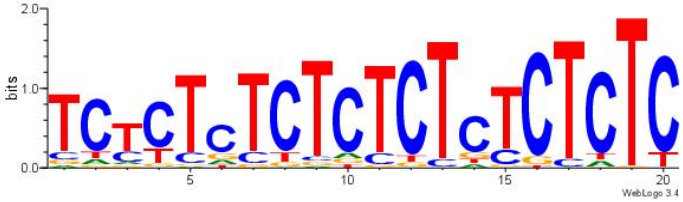

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.11861

Alignment:
AGCTCMKCCTCCTGTCAGAT
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

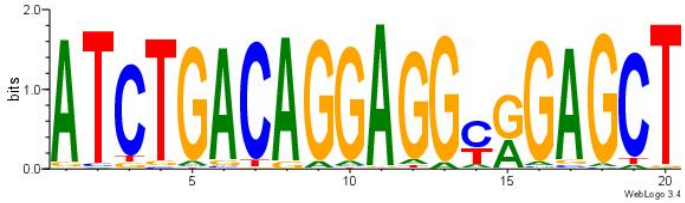

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

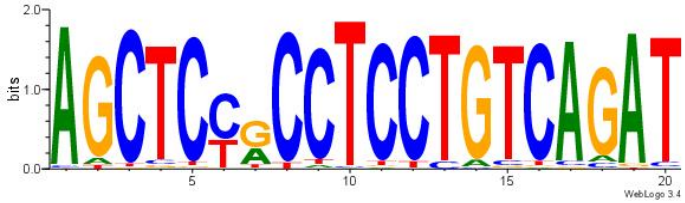

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.119181

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

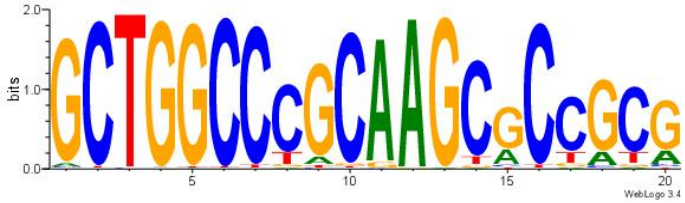

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

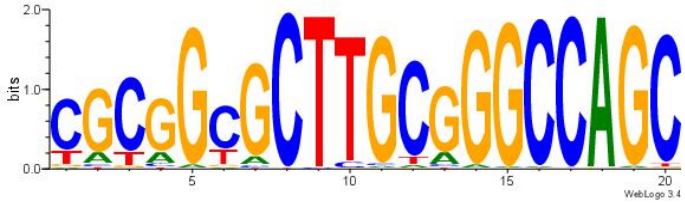

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120921

Alignment:

```
ATGGCTGAATAKTATTCCAT
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

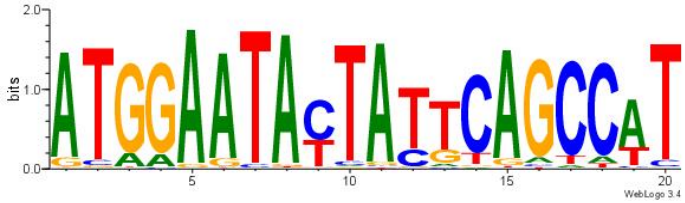

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

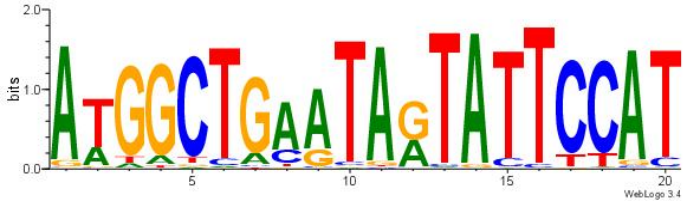

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.120952

Alignment:
CAAGGGTATAYGAGTAGCTG
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

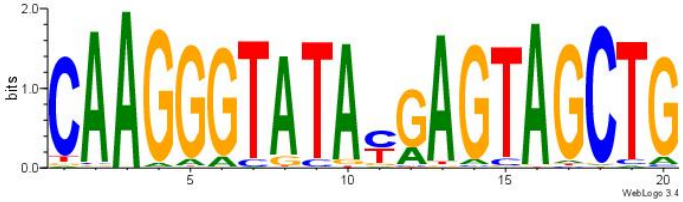

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

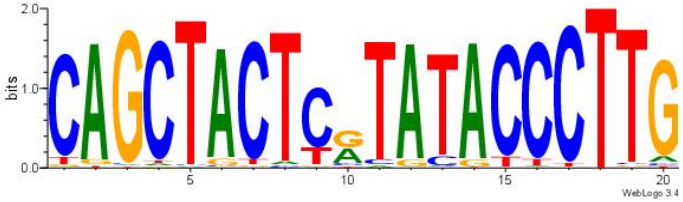

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.122792

Alignment:
GGGCTCCCACAGTGCAGCGG
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

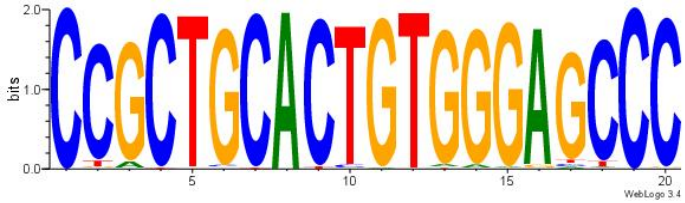

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

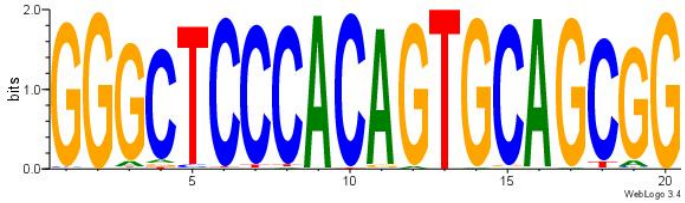

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122944

Alignment:

```
CTGACTGGGAGACACCTCCC
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

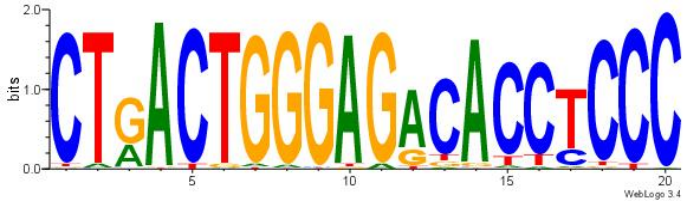

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

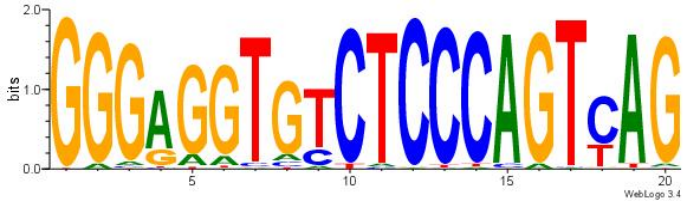

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123478

Alignment:
AAAATGTGGTAYATAYAYAC
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

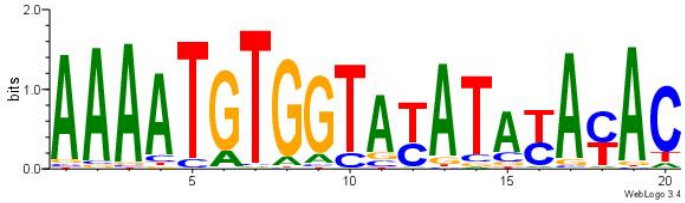

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

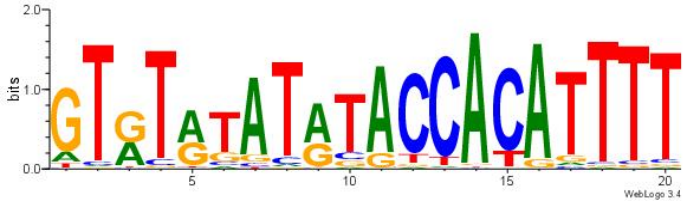

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.123709

Alignment:
AGGACTGAGGGTGCCYRGGG
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

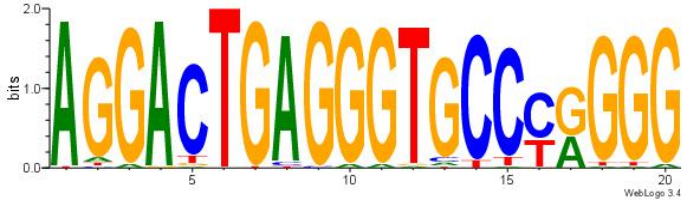

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

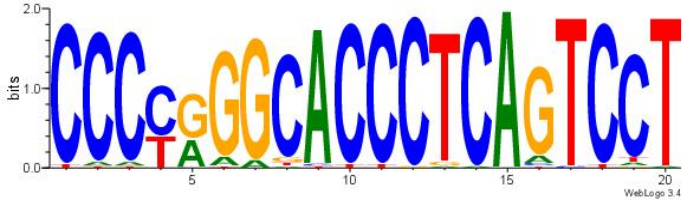

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.124168

Alignment:
AGGTTTGTTACATAGGTAWA
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

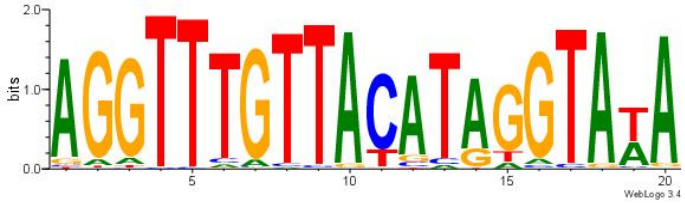

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

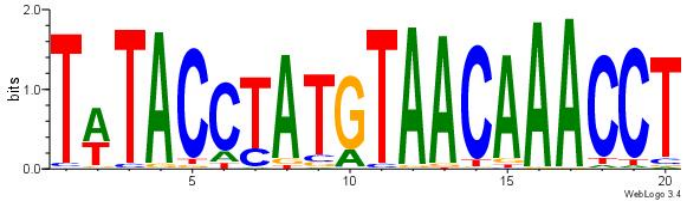

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124832

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

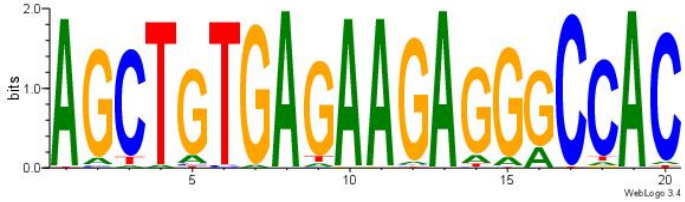

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

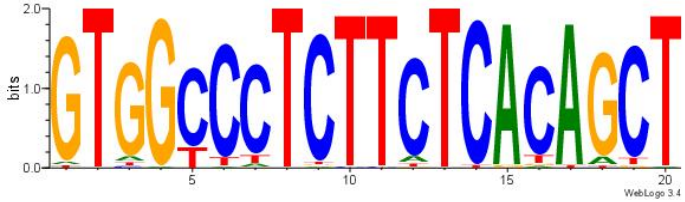

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126446

Alignment:
MGTCTMKCTCTGTKGCCCAG
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

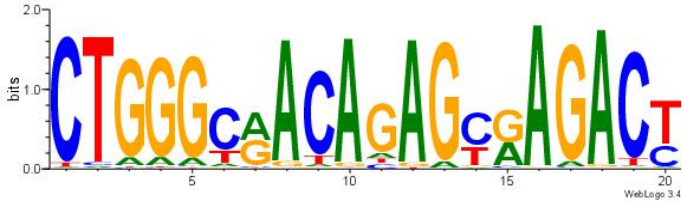

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

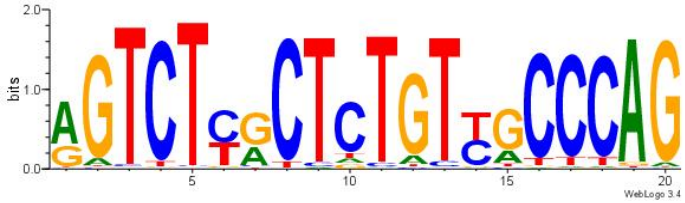

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.127952

Alignment:
ACCTGGAAAATCGGGTCACT
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

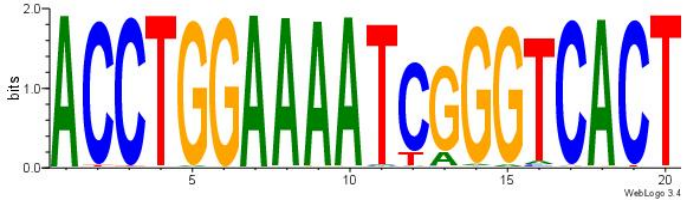

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

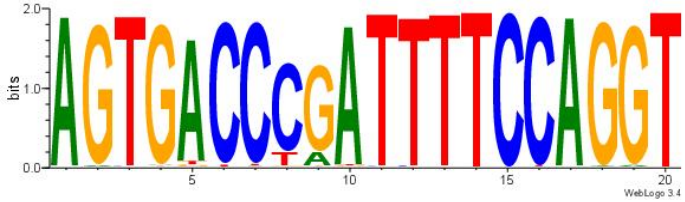

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.127987

Alignment:
AGCTCCCAGCGTGAGCGACG
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

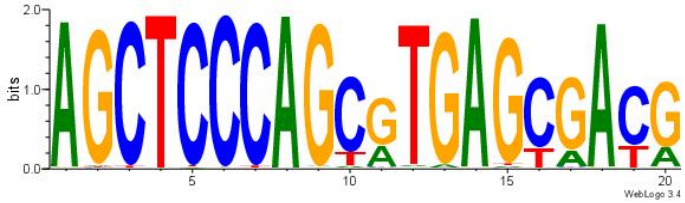

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

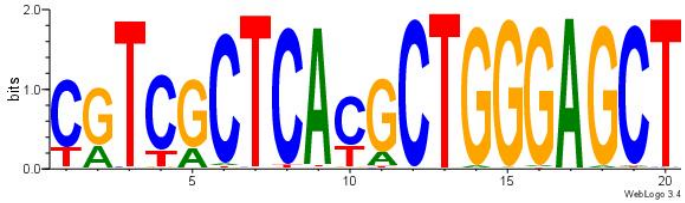

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129011

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

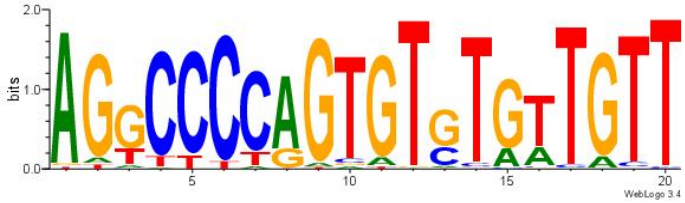

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

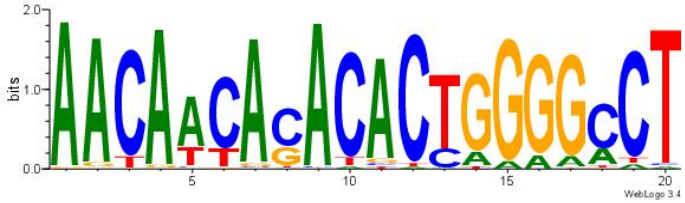

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130255

Alignment:
GTTATTAATTGGCCTAATTT
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

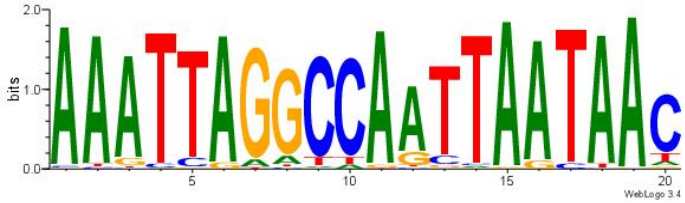

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.130989

Alignment:
ATGGACAYTTRGGTTGHTTC
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

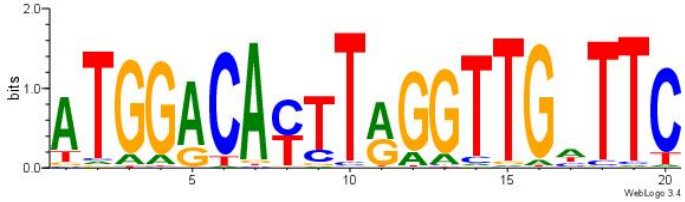

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

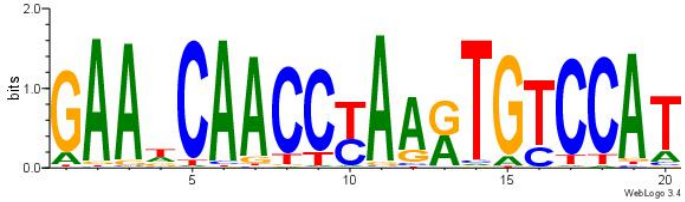

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.132026

Alignment:
GTGTCKGGAGTTTGTTCCTT
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

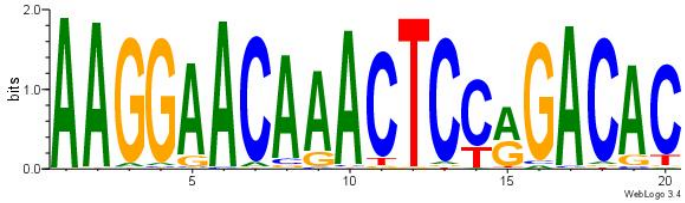

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

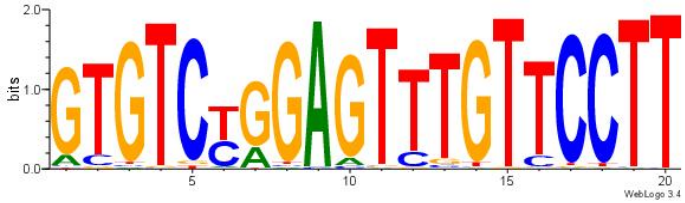

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132074

Alignment:

```
GGATCCACTGGGTGAAGCCA
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

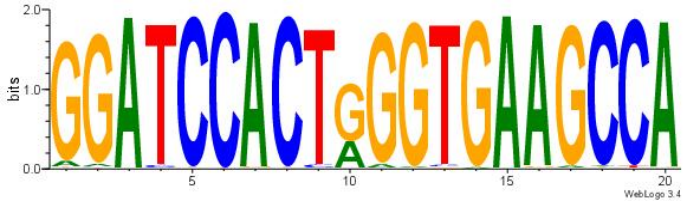

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

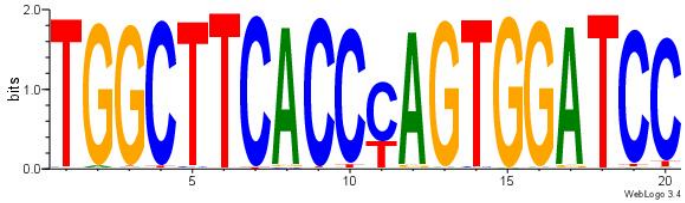

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132303

Alignment:

```
ACACATCACAAAGCAGTTTC
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

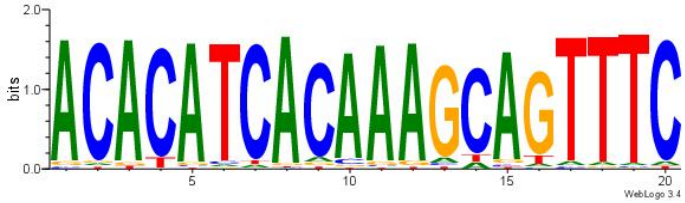

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

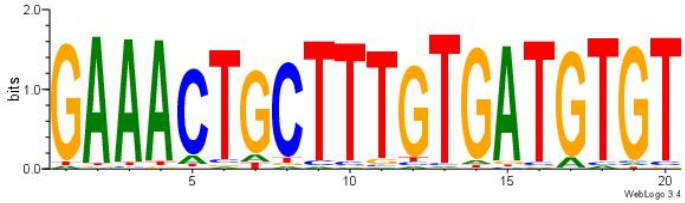

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.13631

Alignment:
VMATTTAKTGAGCACCTACT
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

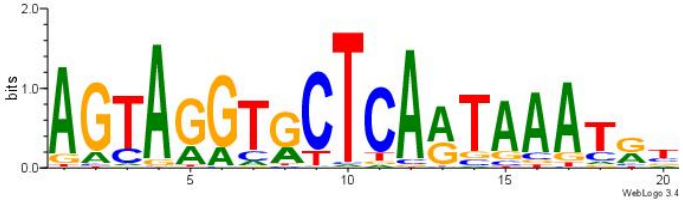

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

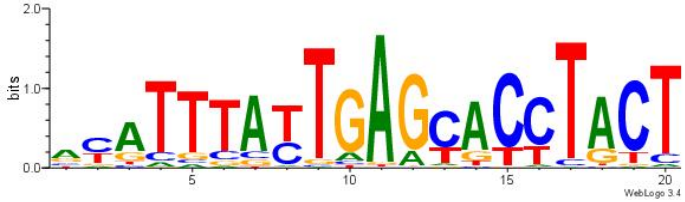

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.136489

Alignment:
TAATTTTATGTGTCAACTTG
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

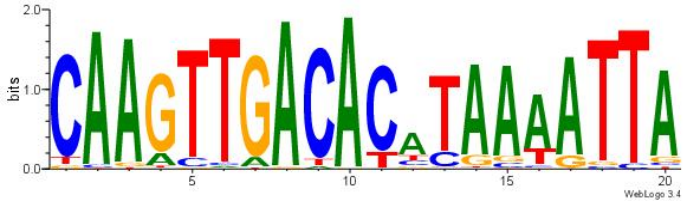

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

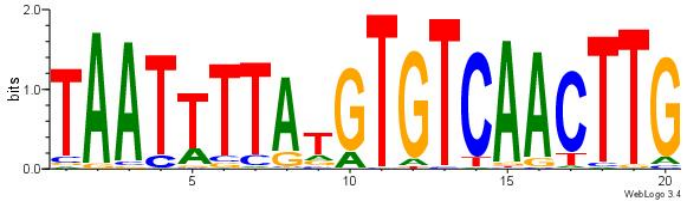

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138004

Alignment:

```
TTCAMTCATGATTTGGCTCT
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

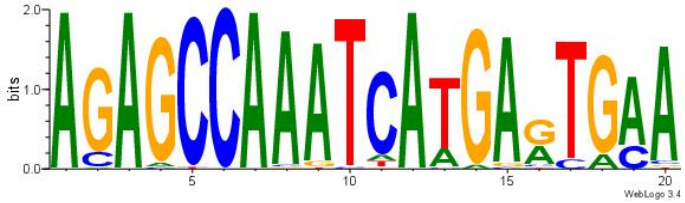

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

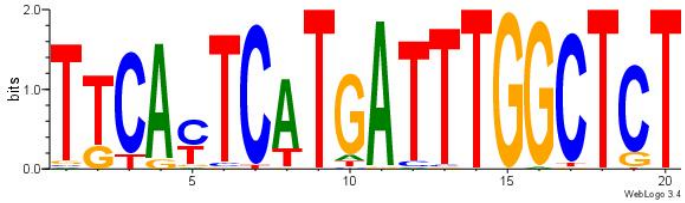

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138171

Alignment:

```
TYTGTCMTTTTGTGACTGGC
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

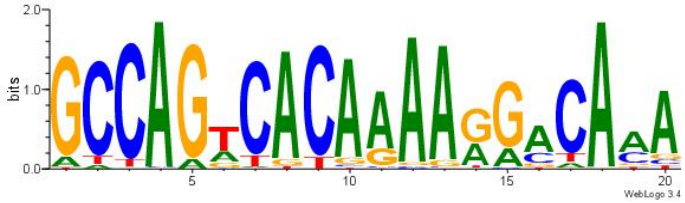

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

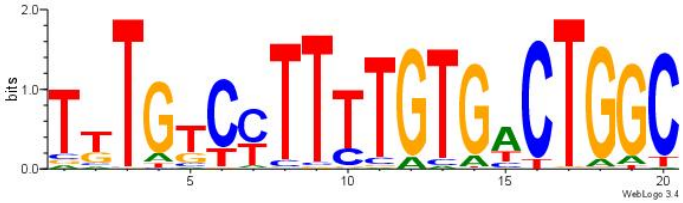

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.138393

Alignment:
TTGGTAGGATCCGTGATGCC
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

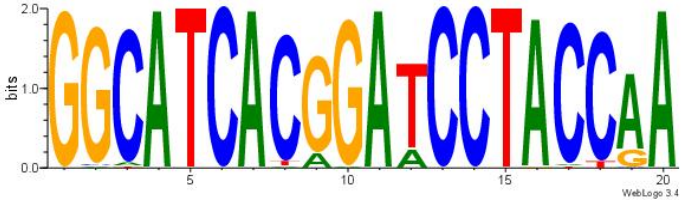

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

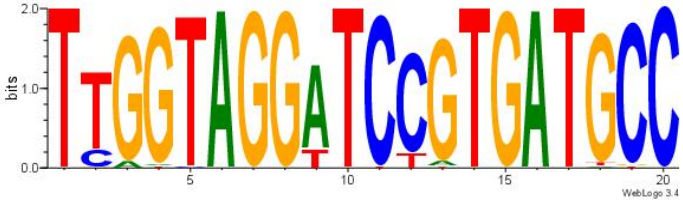

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138541

Alignment:
TCKMGCCACTGCACTCCAGC
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

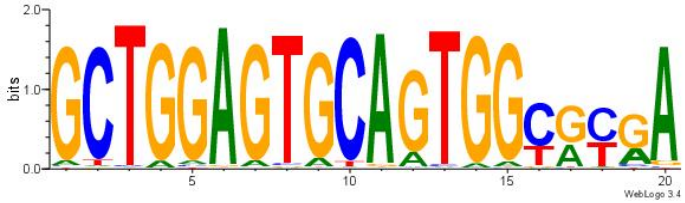

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

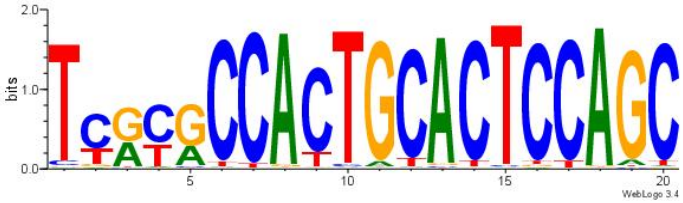

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139633

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

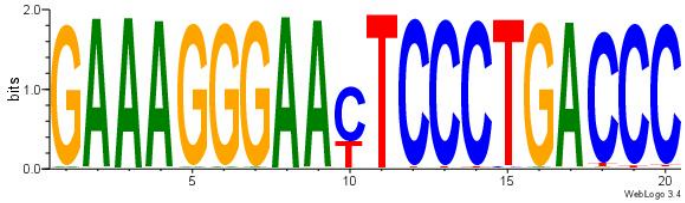

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

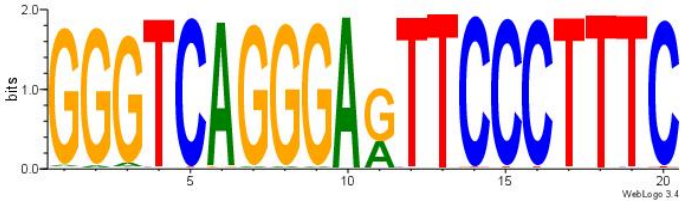

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142122

Alignment:

```
GCACATGTAYCCYAGAACTT
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

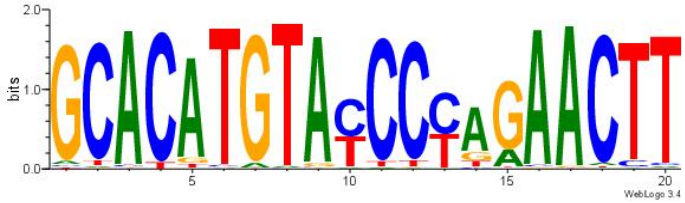

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

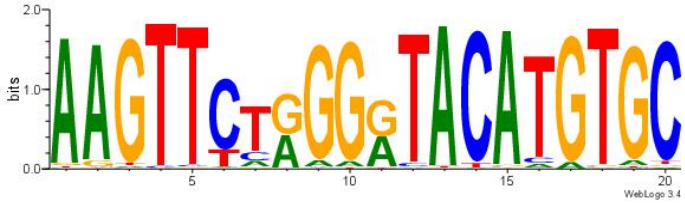

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.14243

Alignment:
CTGGCCCTCAATGGTTAAAC
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

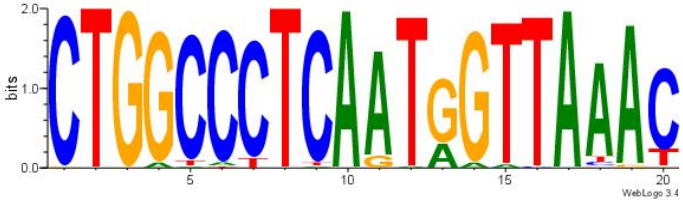

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

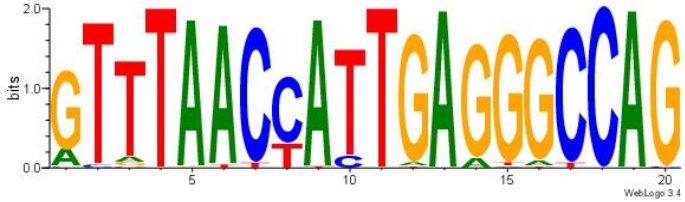

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142754

Alignment:
CTTGCCCAAGGTCACACAGC
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

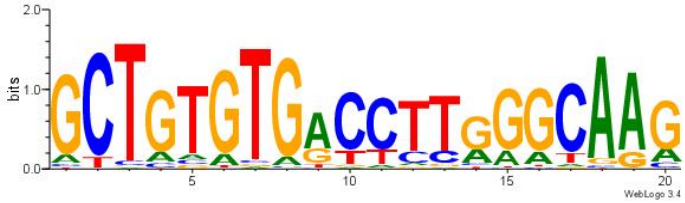

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

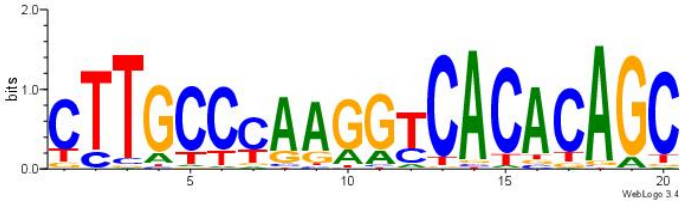

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1428

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

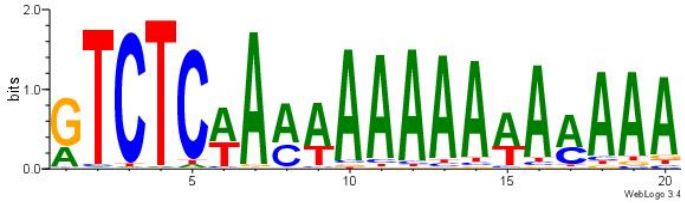

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

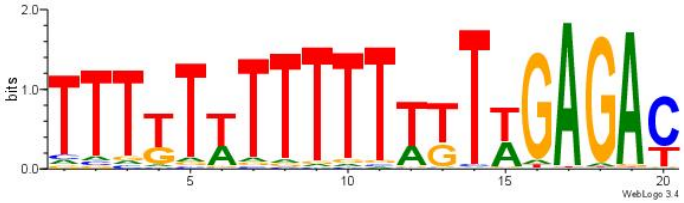

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142995

Alignment:

```
ACTCCCTAGTGAGATGAACC
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

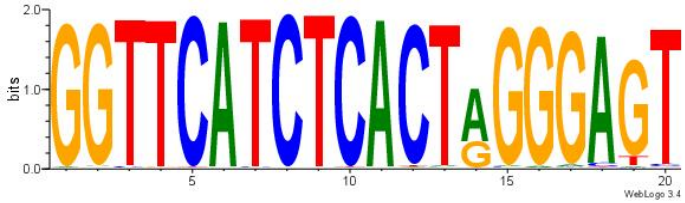

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

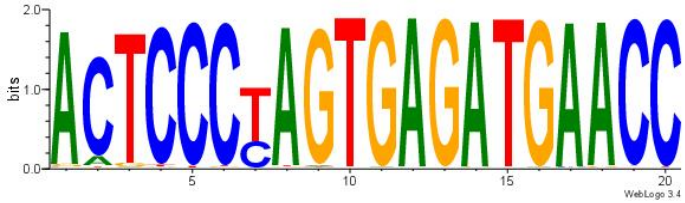

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.143419

Alignment:
CTCAGTGTTAATCTCCTGTC
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

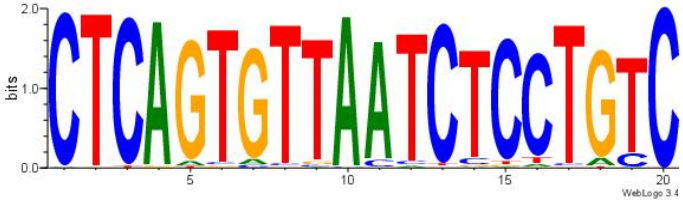

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

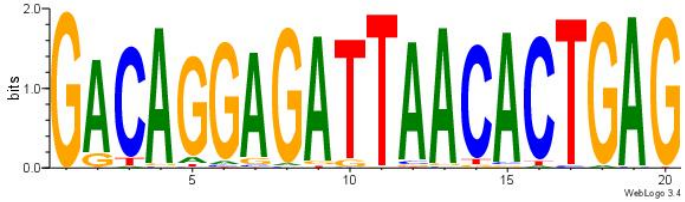

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144013

Alignment:
CTGGGCTCCTGAGTCTGGTG
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

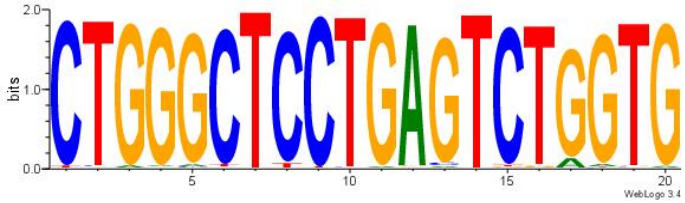

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

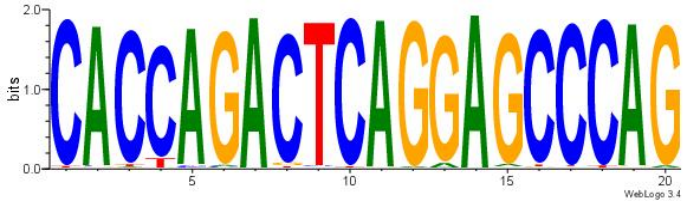

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145357

Alignment:

```
AAAATCACAAGCATTCCTAT
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

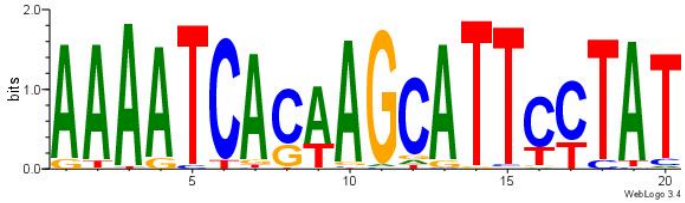

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

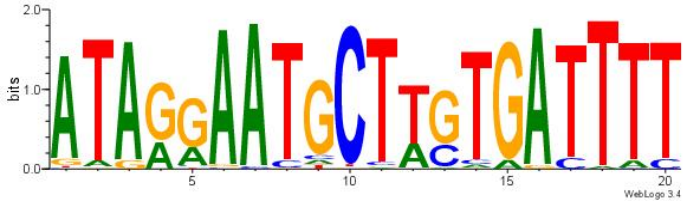

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145365

Alignment:

```
AATCAACCCTGGYRATCAAT
HAGTGGKATTGCTGGATCAT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

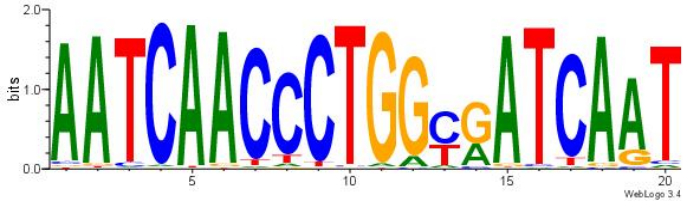

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

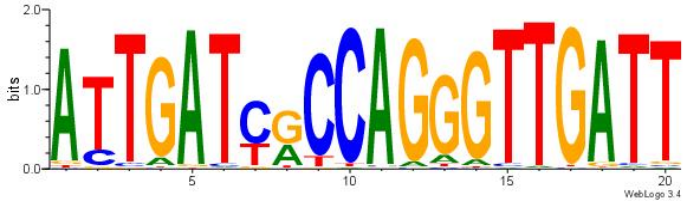

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.145727

Alignment:
CAACATGGATGRARCTGGAG
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

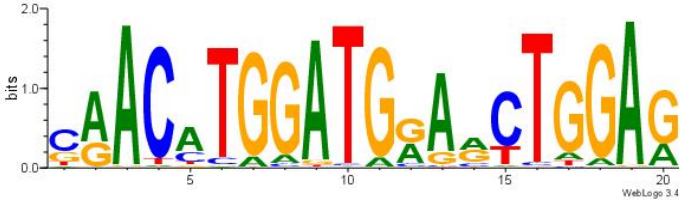

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

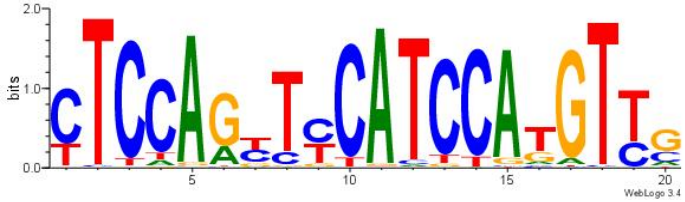

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147342

Alignment:
CTAGACATAAAGGTTCTCCA
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

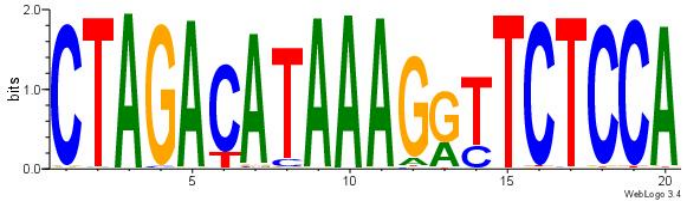

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

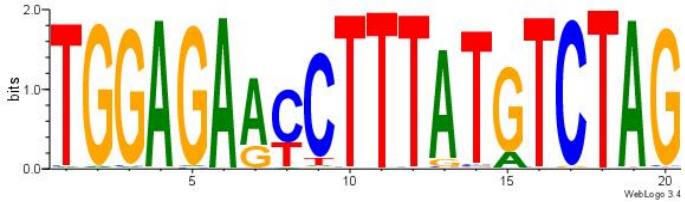

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147767

Alignment:

```
GGGATTGTAAATACACCAAT
ATGATCCAGCAATYCCACTH
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

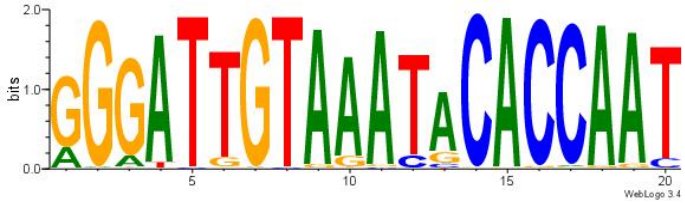

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148608

Alignment:
GGCACTGCTGGGGGACCCAG
HAGTGGKATTGCTGGATCAT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

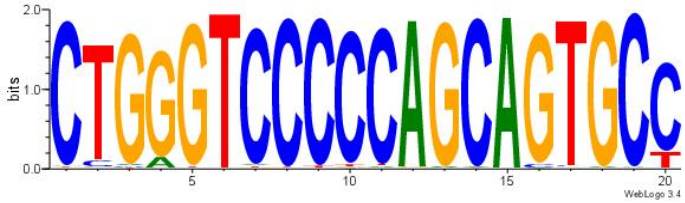

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

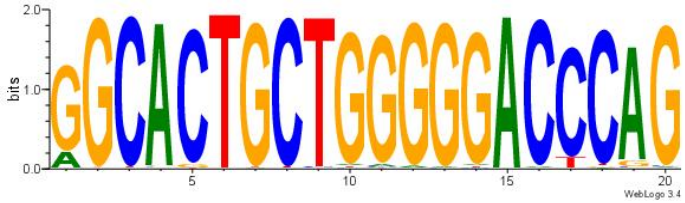

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.14867

Alignment:
AGAAATCGAGCRCAGCGCCG
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

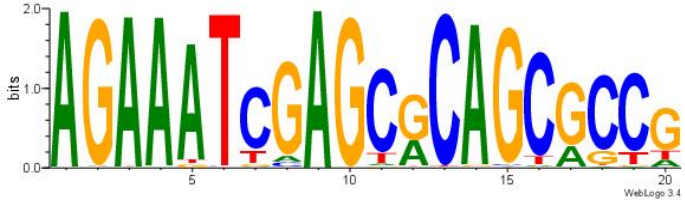

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

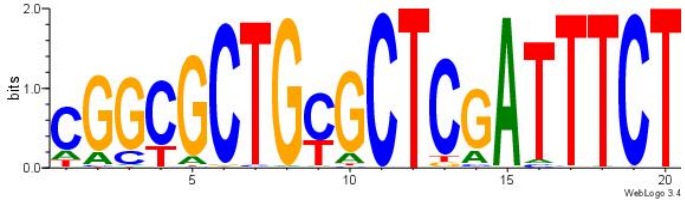

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149032

Alignment:
AGGTCCTTCAGGAGGTATTC
ATGATCCAGCAATYCCACTH

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

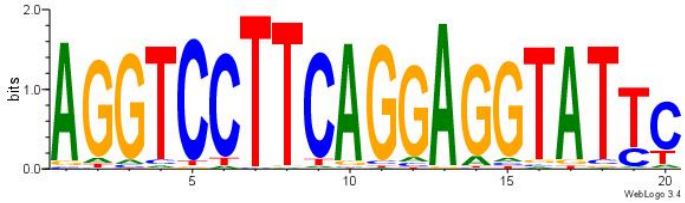

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

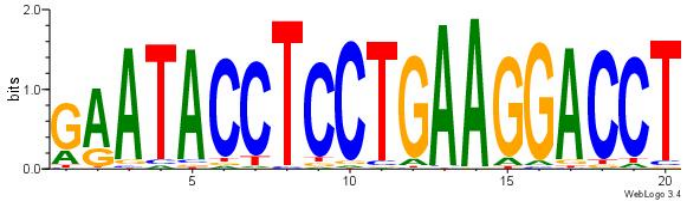

Dataset #: 1 Motif ID: 116 Motif name: Motif 116

Original motif Consensus sequence: GCAGAGGCGCTCCT

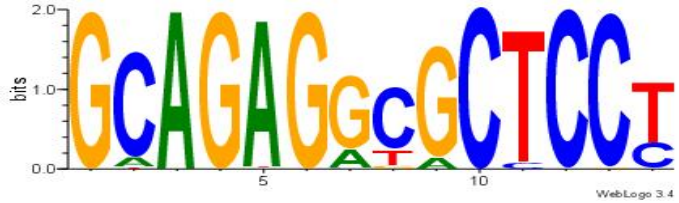

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

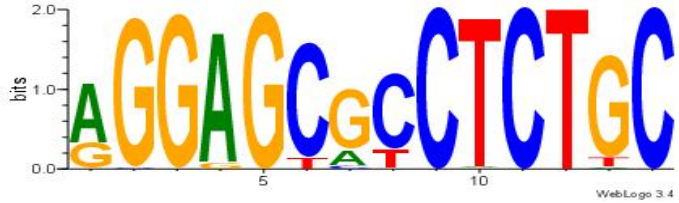

Best Matches for Motif ID 116 (Highest to Lowest)

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.023579

Alignment:

GCCGGGRAGAGGCGCTCCT
GCAGAGGCGCTCCT-----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

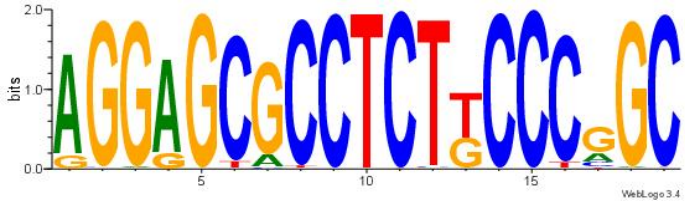

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

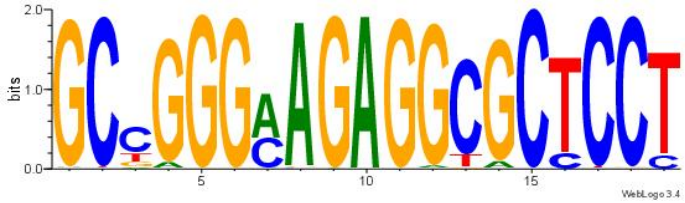

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0315071

Alignment:
GCCAGGCAGAGRGKCTCCT
-----GCAGAGGCGCTCCT

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

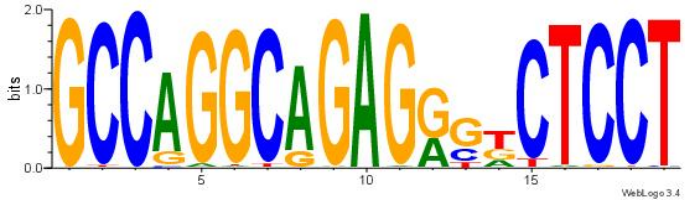

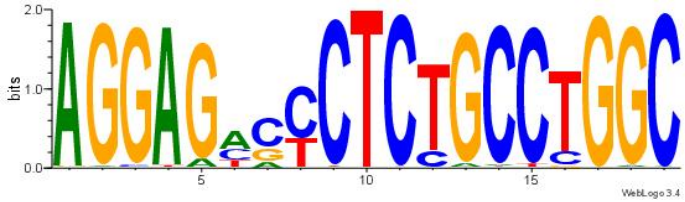

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0401354

Alignment:

```
AGGAGCCCCTCHGCCCR
---AGGAGCGCCTCTGC
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

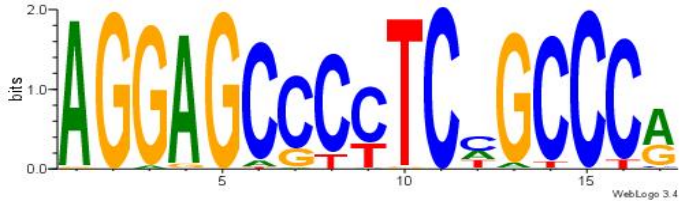

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

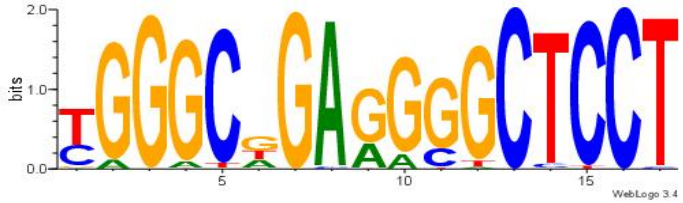

Dataset #: 1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.068644

Alignment:

```
AGGASCSTCYSWGCCMGGY
-----AGGAGCGCCTCTGC
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

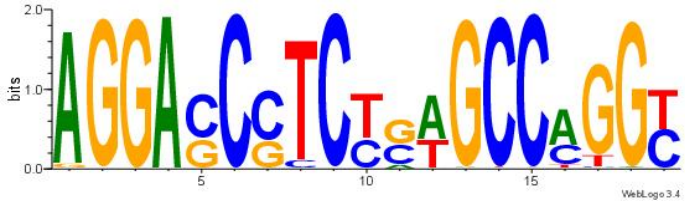

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

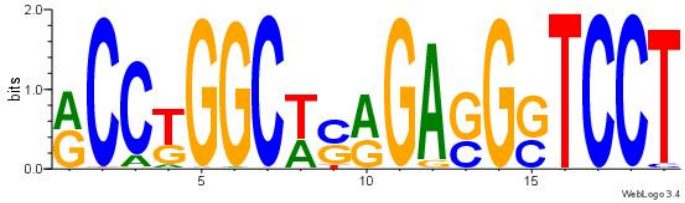

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.0780562

Alignment:
TCAGGAGTGAAGCTGC
--AGGAGCGCCTCTGC

Original motif Consensus sequence: GCAGCTTCACTCCTGA

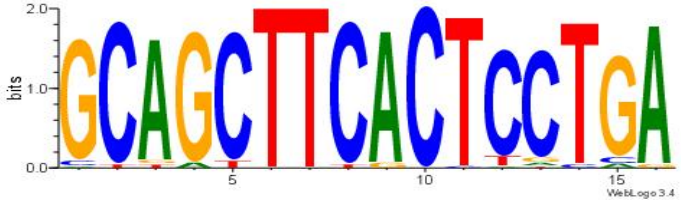

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

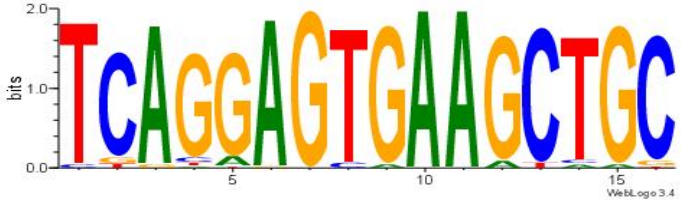

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0879059

Alignment:
TGCTGGAGGTCCACTCCAGA
---AGGAGCGCCTCTGC---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

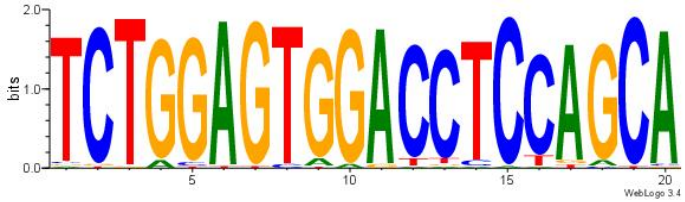

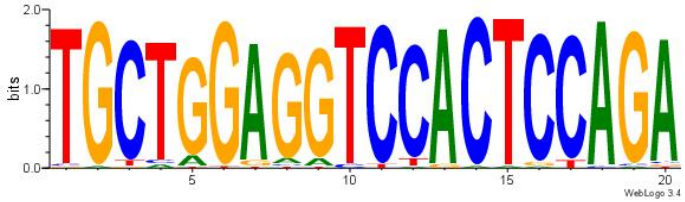

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0973382

Alignment:

```
CTAGACATAAAGGTTCTCCA
------GCAGAGGCGCTCCT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

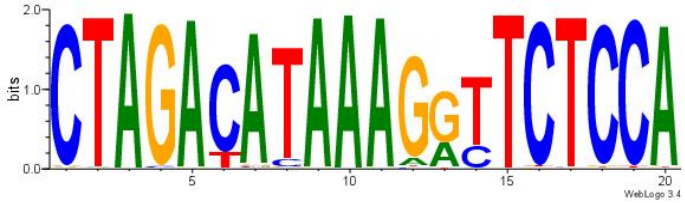

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

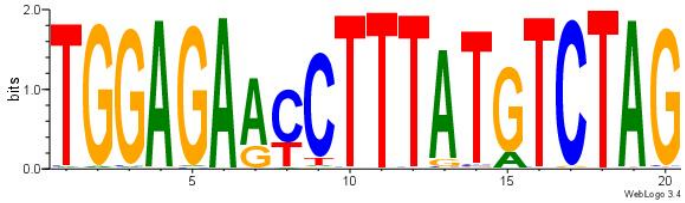

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0986826

Alignment:

```
GTAGACKGGAGCTGTTCCT
GCAGAGGCGCTCCT-----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

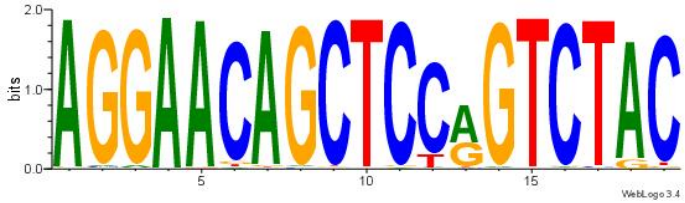

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

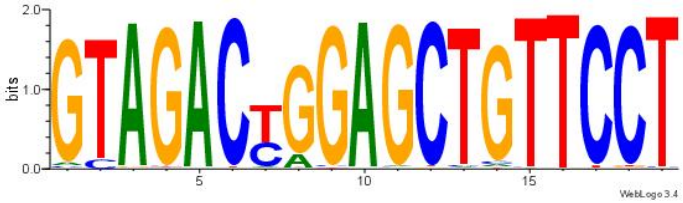

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.102098

Alignment:
GCCKGGMKCMGTGGCTCAKG
-GCAGAGGCGCTCCT-----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

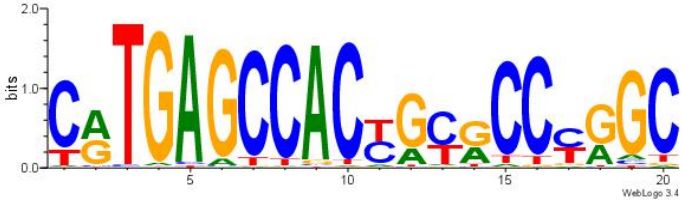

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

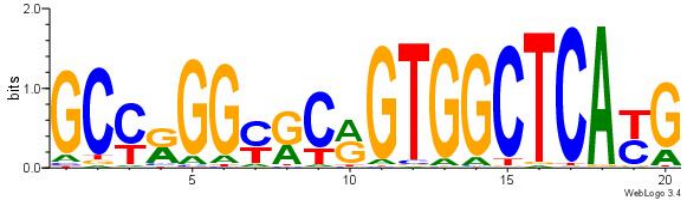

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.103547

Alignment:
ACTCAGCCCRCCTGCACCC
-AGGAGCGCCTCTGC----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

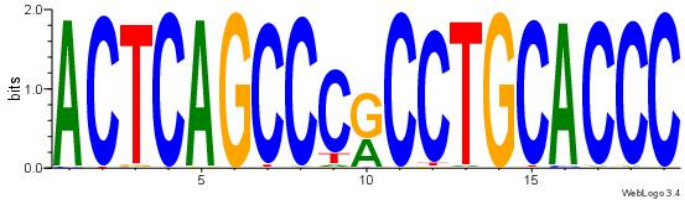

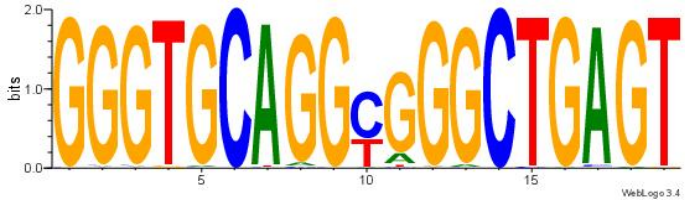

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.103873

Alignment:

```
GAAAGGGAACTCCCTGACCC
GCAGAGGCGCTCCT------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

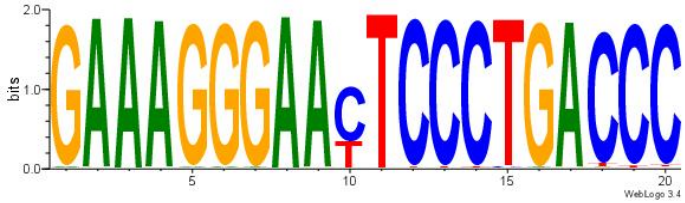

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

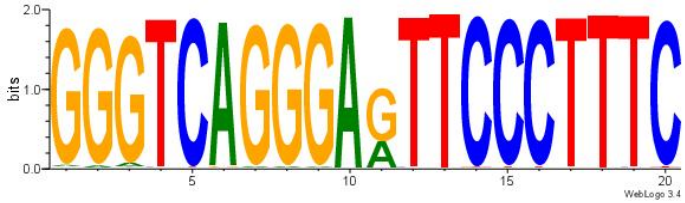

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.10433

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-AGGAGCGCCTCTGC-----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

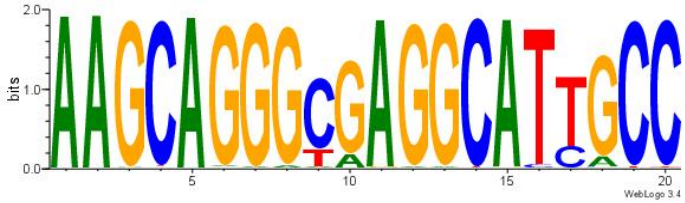

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

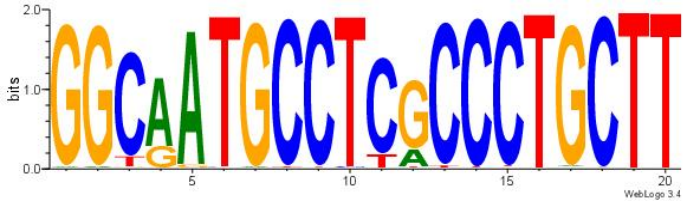

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.104395

Alignment:
MGAAGGGACTTGCCTTGT
AGGAGCGCCTCTGC----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

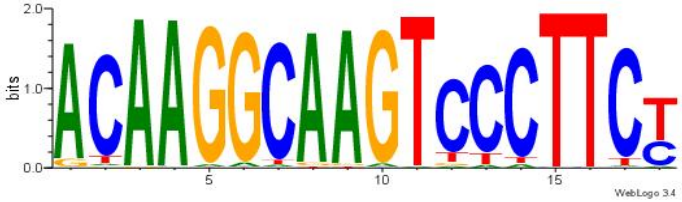

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

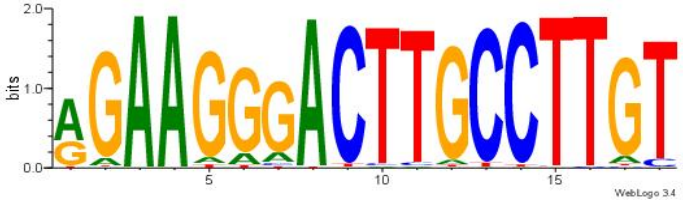

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.104894

Alignment:
AAAATCACAAGCATTCCTAT
----GCAGAGGCGCTCCT--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

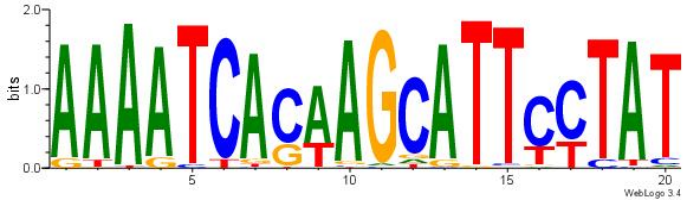

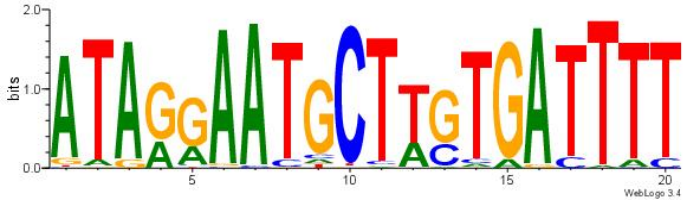

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.105792

Alignment:

```
CAGACTGCCTCCTCAA
AGGAGCGCCTCTGC--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

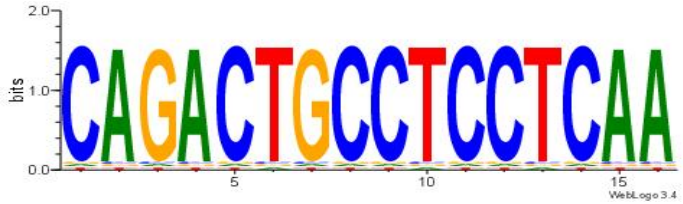

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

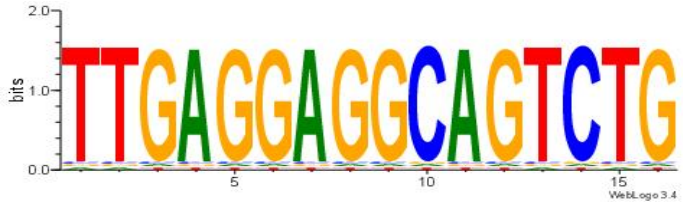

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.107178

Alignment:

```
CACCAGGAGATTATATCCCR
--AGGAGCGCCTCTGC----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

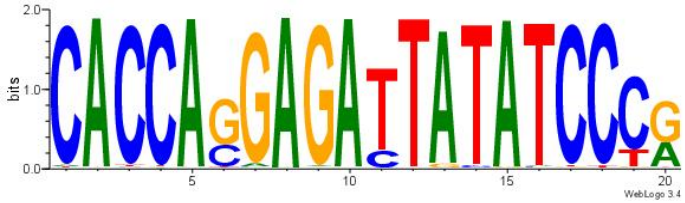

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

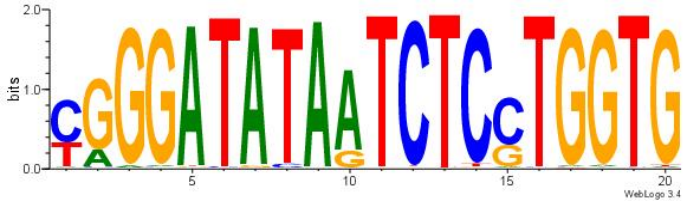

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.110723

Alignment:
CCCGAAGCTGCRYRCTCGGT
---GCAGAGGCGCTCCT---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

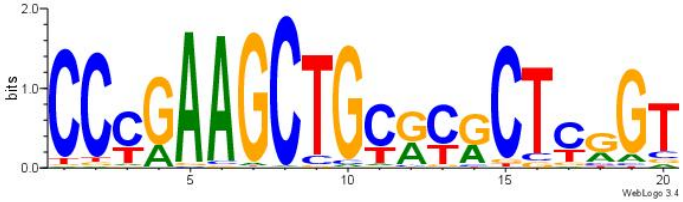

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

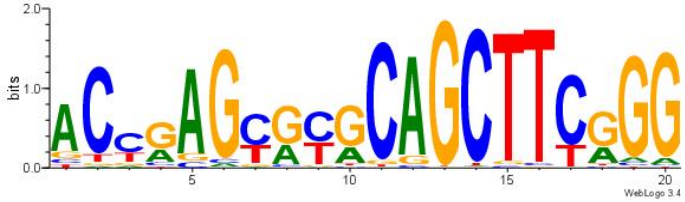

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.111389

Alignment:
AGGACTGAGGGTGCCYRGGG
AGGAGCGCCTCTGC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

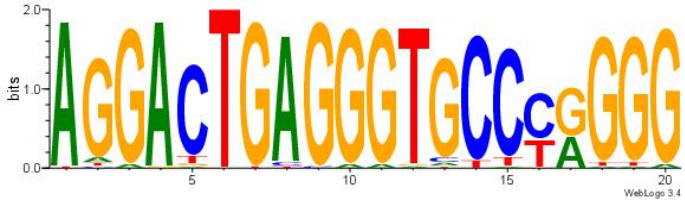

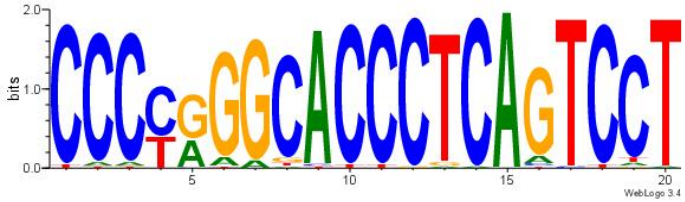

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.112174

Alignment:

```
GGCATCACGGATCCTACCAA
-GCAGAGGCGCTCCT-----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

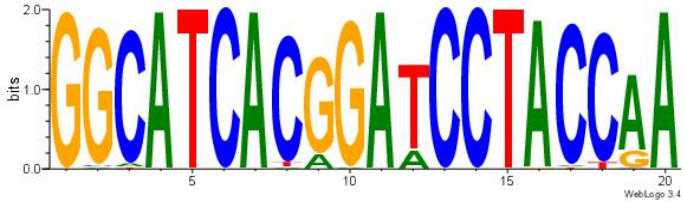

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

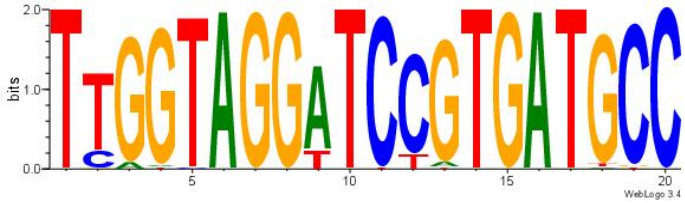

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.112291

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-AGGAGCGCCTCTGC-----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

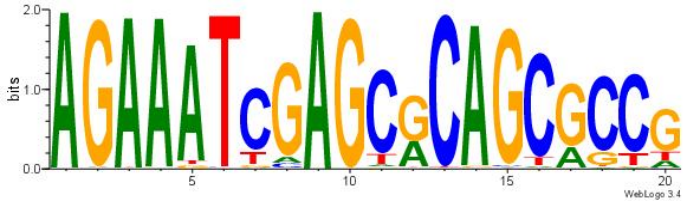

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

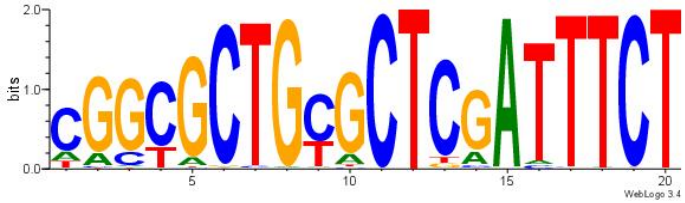

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.11422

Alignment:
GCTGGAGTGCAGTGGCRYGA
----AGGAGCGCCTCTGC--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

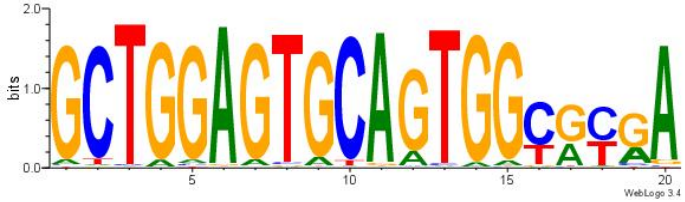

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

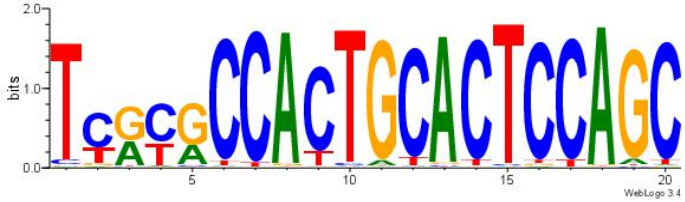

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.114343

Alignment:
GCTGGCCCKGGTGCTAAGC
-GCAGAGGCGCTCCT----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

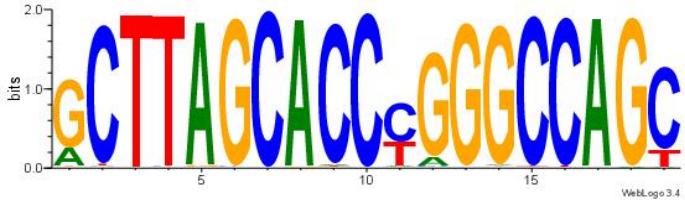

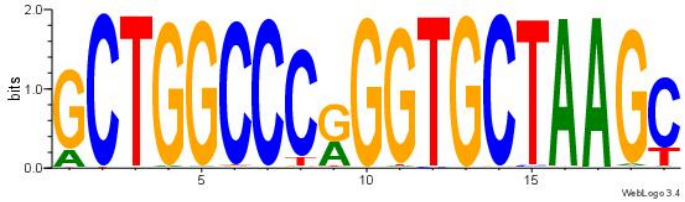

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.114574

Alignment:

```
AGGGATCTAGGTTGCR
-AGGAGCGCCTCTGC-
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

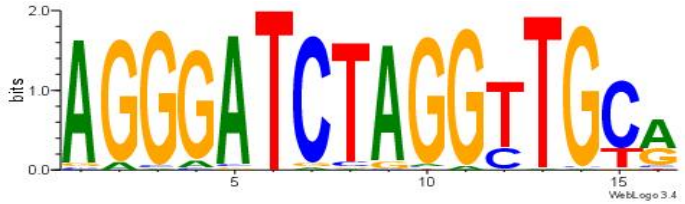

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

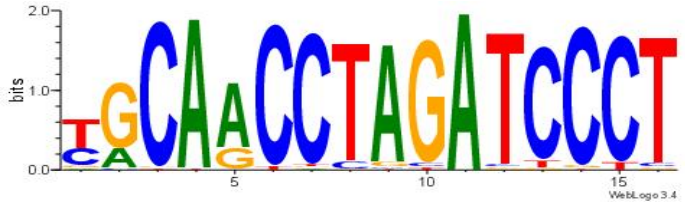

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.115471

Alignment:

```
AAAGCTGGAGCTATTATCTA
-----AGGAGCGCCTCTGC-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

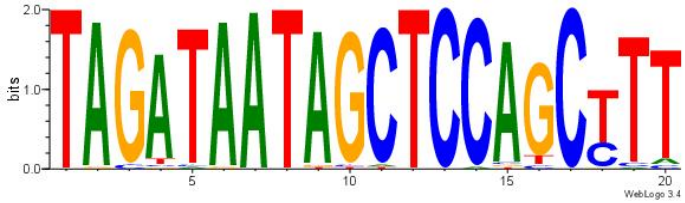

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

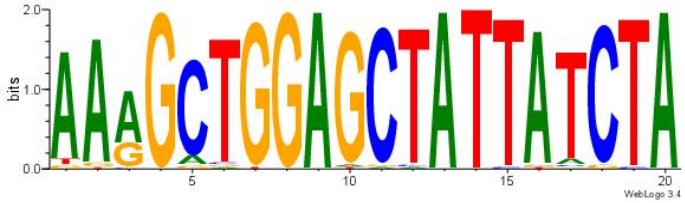

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.115658

Alignment:
HGCTCCTGTGSKCCC
-GCAGAGGCGCTCCT

Original motif Consensus sequence: HGCTCCTGTGSKCCC

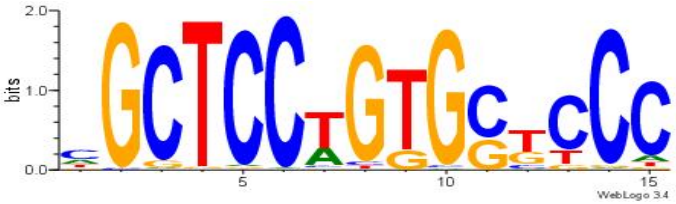

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

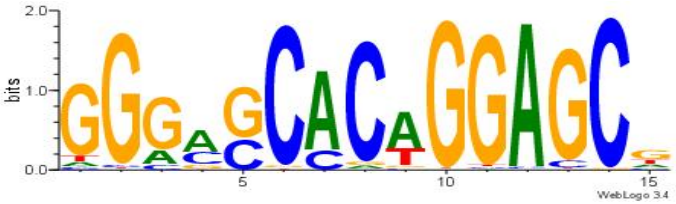

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.115712

Alignment:
KCCGGGCCTTAGCTGCCTTC
--AGGAGCGCCTCTGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

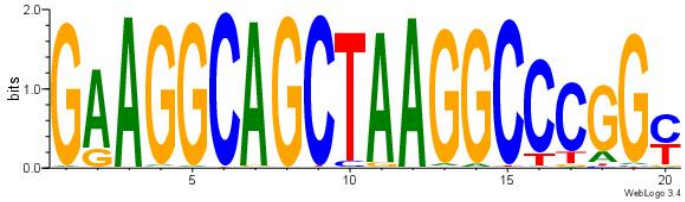

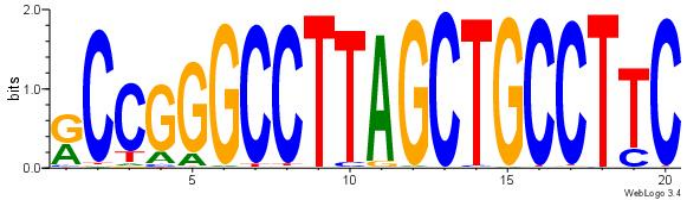

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.115726

Alignment:

```
GGGGGCTGACCCCCCCACC
----GCAGAGGCGCTCCT-
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

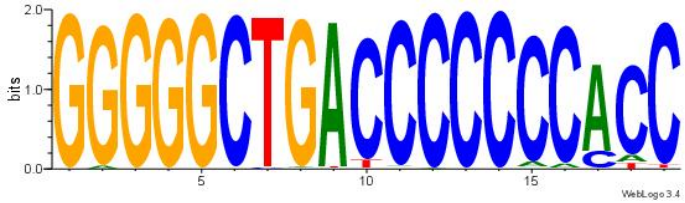

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

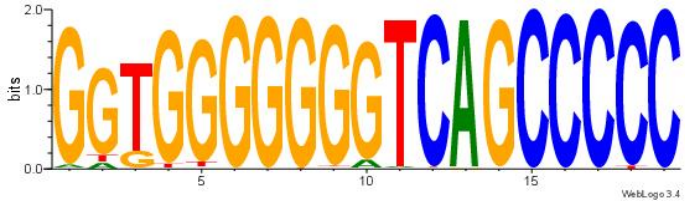

Dataset #:	1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.116053

Alignment:

```
AGAAAGGCATGTGAAAA
AGGAGCGCCTCTGC---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

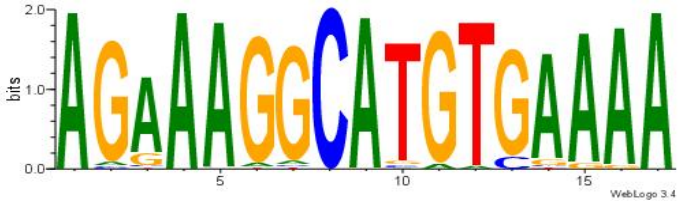

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

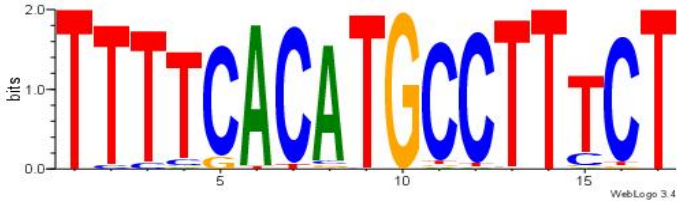

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.116128

Alignment:
GCACATGTAYCCYAGAACTT
GCAGAGGCGCTCCT------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

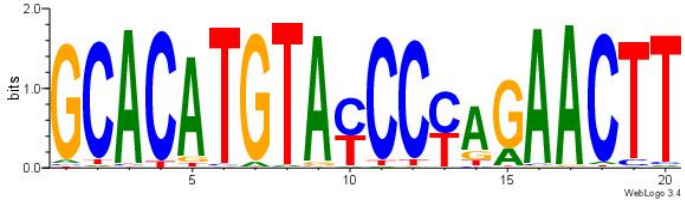

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

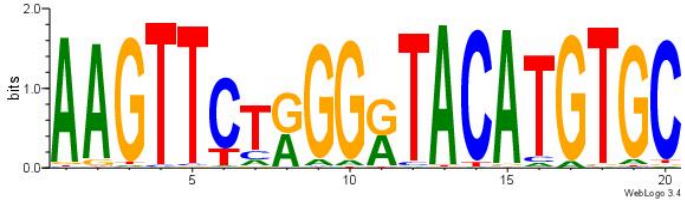

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.117254

Alignment:
GGCACTGCTGGGGGACCCAG
GCAGAGGCGCTCCT------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

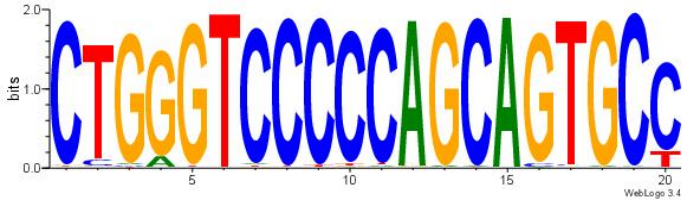

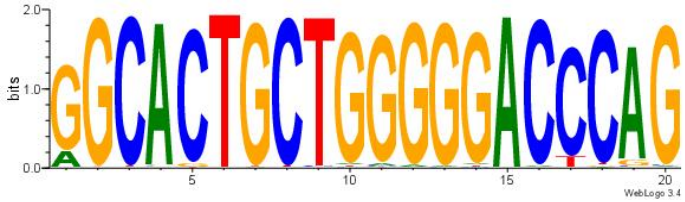

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.117601

Alignment:

```
CTGGGCACCATTGA
AGGAGCGCCTCTGC
```

Original motif Consensus sequence: CTGGGCACCATTGA

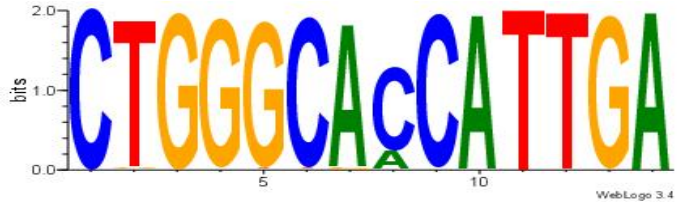

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

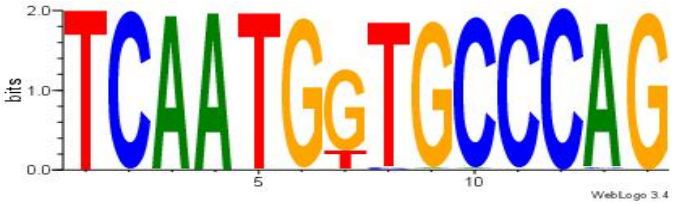

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.117624

Alignment:

```
CACCAGACTCAGGAGCCCAG
GCAGAGGCGCTCCT------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

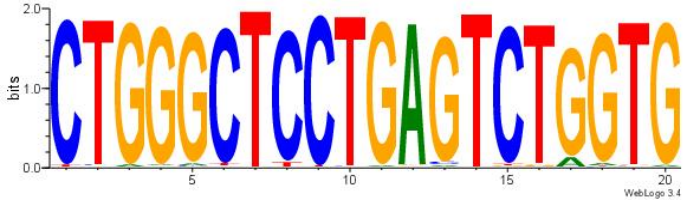

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

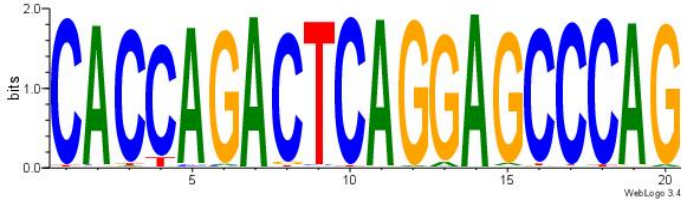

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.117834

Alignment:
GGTGGAGCTGCCTGCCAGTC
--AGGAGCGCCTCTGC----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

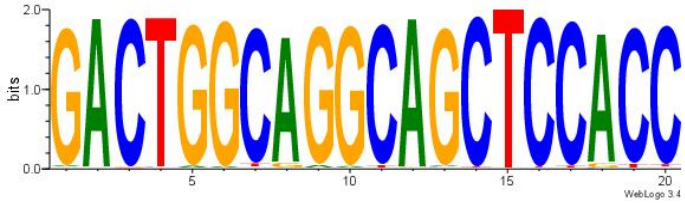

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

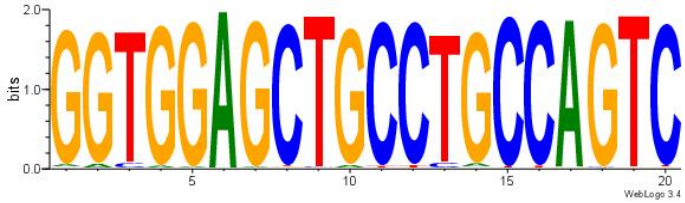

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.118197

Alignment:
GTGGCCCTCTTCTCACAGCT
-AGGAGCGCCTCTGC-----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

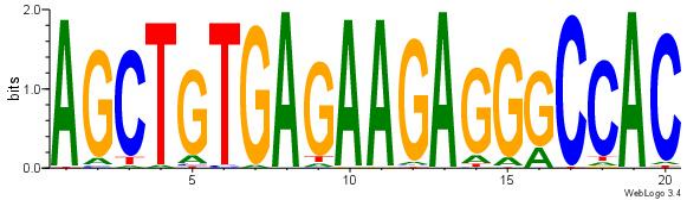

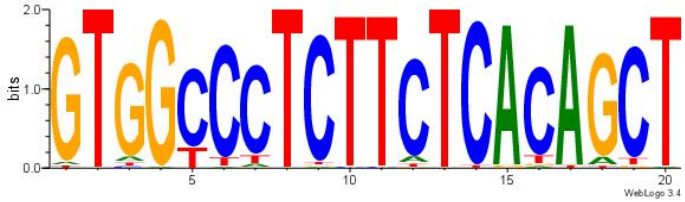

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.118988

Alignment:

```
AATGAKATCATGTCYTTTGC
-AGGAGCGCCTCTGC-----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

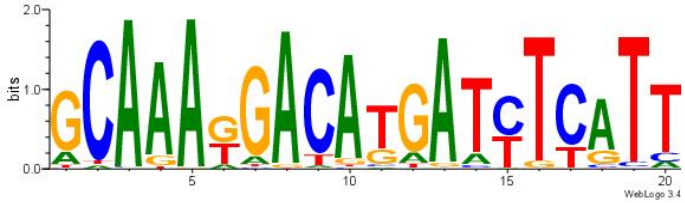

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

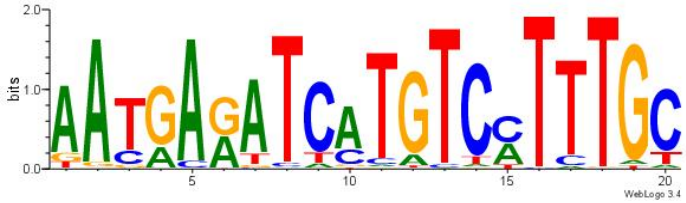

Dataset #: 1

Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.119386

Alignment:

```
TGTGAAGAGACCACCAA
---GCAGAGGCGCTCCT
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

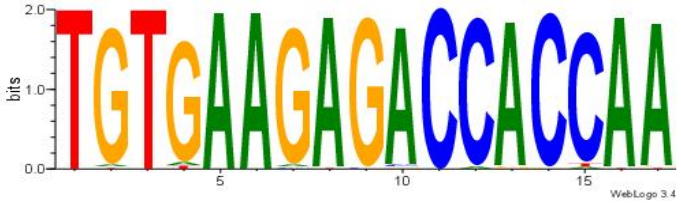

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

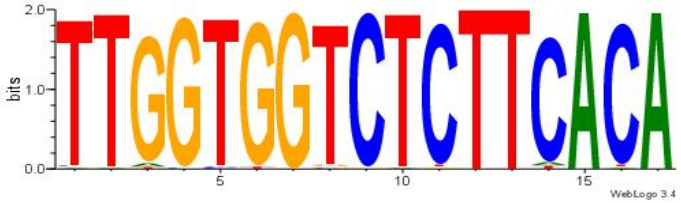

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.119521

Alignment:
AGTGAGAACATRYRRTRTTT
-----GCAGAGGCGCTCCT-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

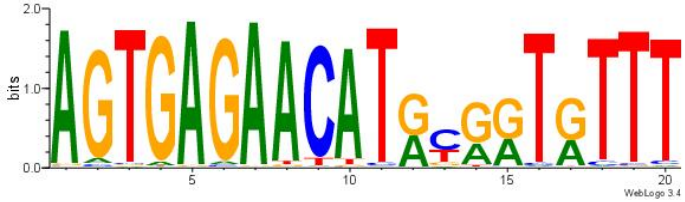

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

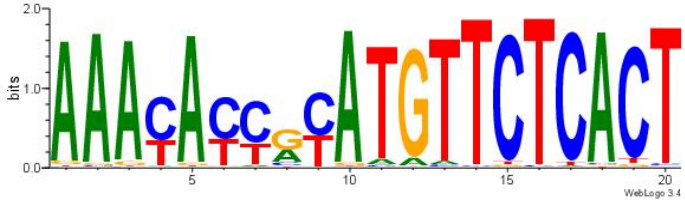

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.119625

Alignment:
CTGACTGGGAGACACCTCCC
---GCAGAGGCGCTCCT---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

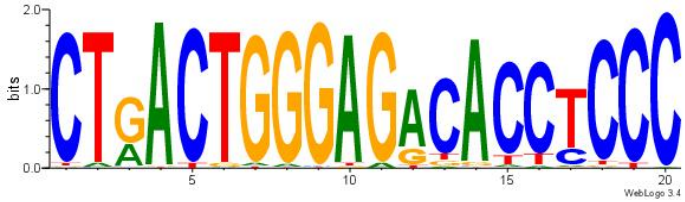

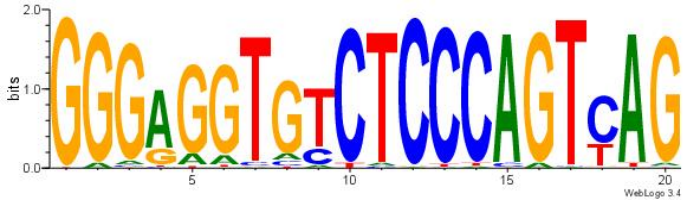

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.119928

Alignment:

```
VMATTTAKTGAGCACCTACT
GCAGAGGCGCTCCT------
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

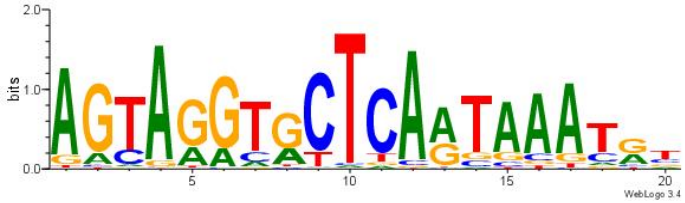

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

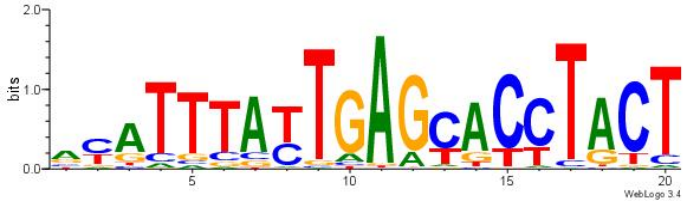

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.120052

Alignment:

```
ATCTGACAGGAGGYRGAGCT
------GCAGAGGCGCTCCT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

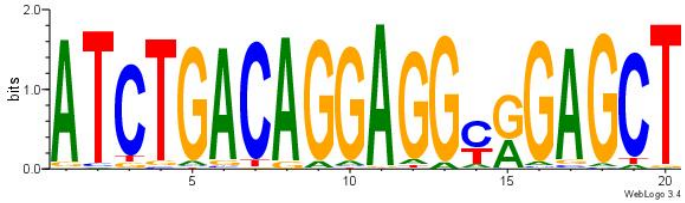

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

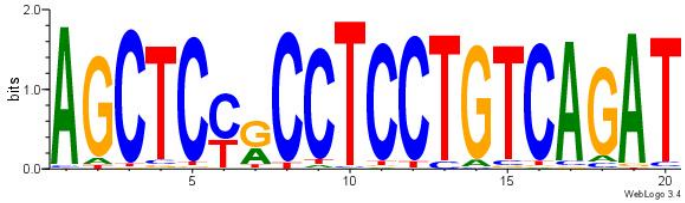

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.120118

Alignment:
GGAGCCGGCTCCCTCAGCTT
---GCAGAGGCGCTCCT---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

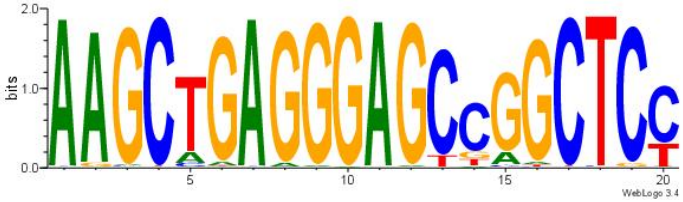

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

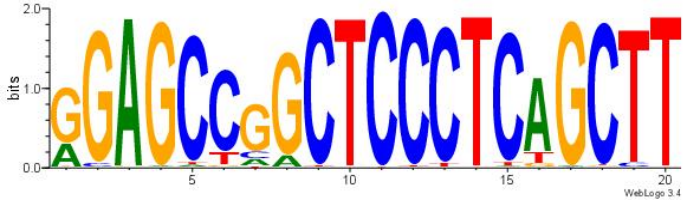

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.121221

Alignment:
CAGCTACTCKTATACCCTTG
-AGGAGCGCCTCTGC-----

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

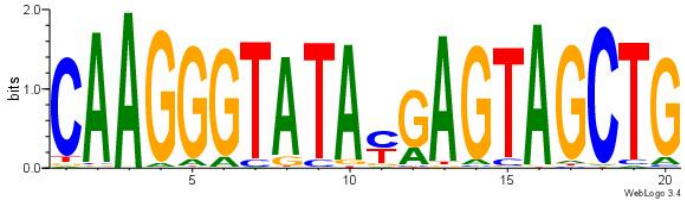

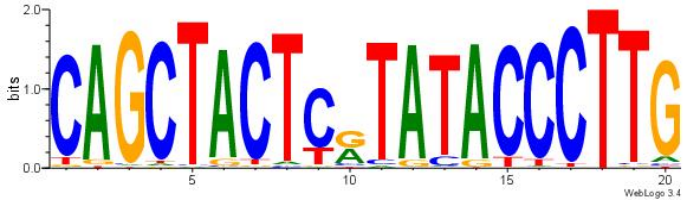

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.121766

Alignment:

```
GKCTGTACCCCCATTGTAT
---AGGAGCGCCTCTGC--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

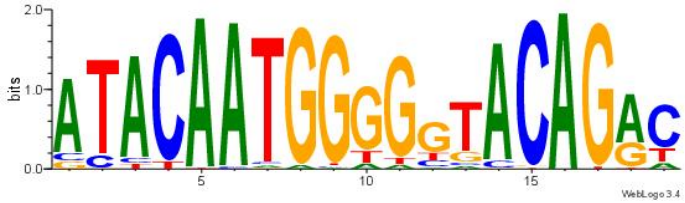

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

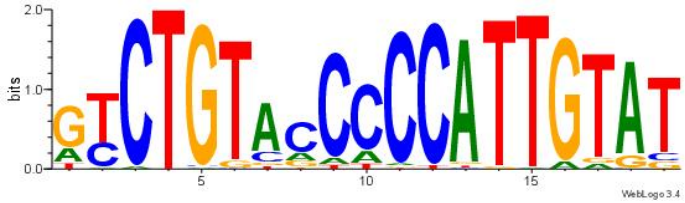

Dataset #:	1

Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.122187

Alignment:

```
ACAGAGTGAGACTCT
GCAGAGGCGCTCCT-
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

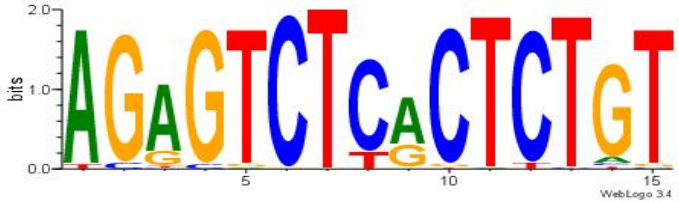

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

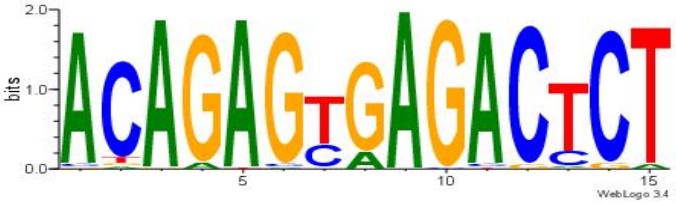

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.122442

Alignment:
GTGCCAGGCACTGTKCTARG
---GCAGAGGCGCTCCT---

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

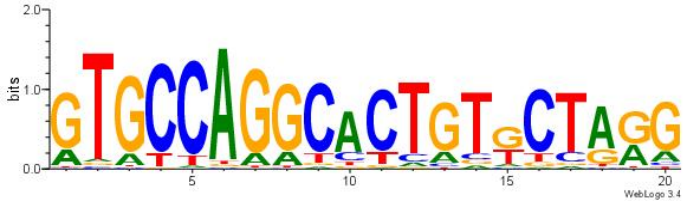

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

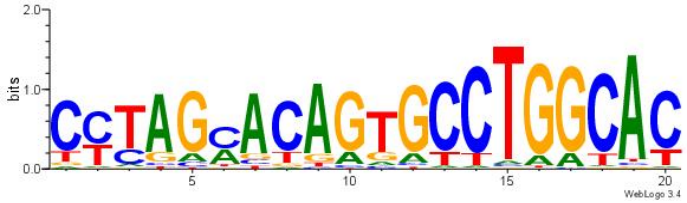

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.122637

Alignment:
CTGAGGACCTGAGGTCRTA
AGGAGCGCCTCTGC-----

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

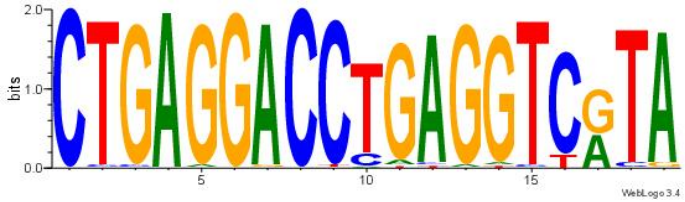

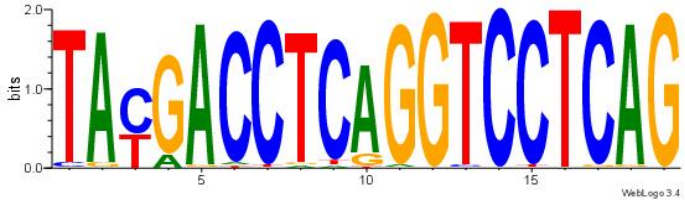

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.124167

Alignment:

```
ATATTGATGATCCTGACC
GCAGAGGCGCTCCT----
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

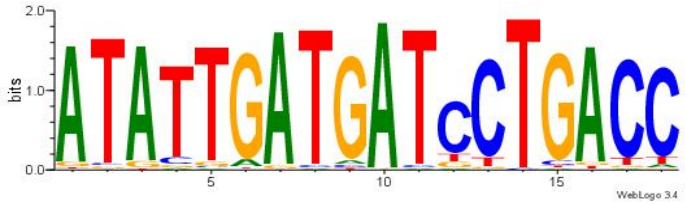

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

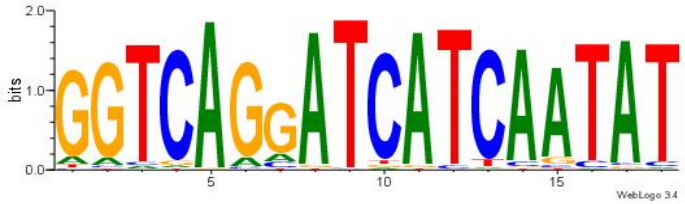

Dataset #: 1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.12424

Alignment:

```
GCTGCARTCTCGGCACTTT
---GCAGAGGCGCTCCT--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

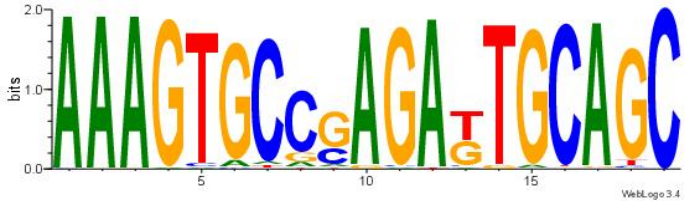

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

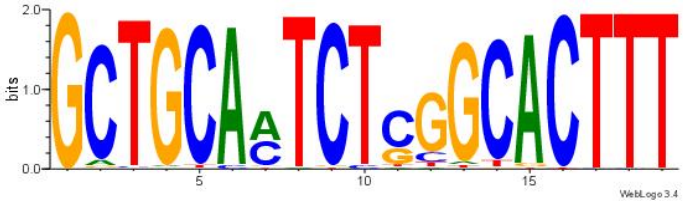

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.124403

Alignment:
AGACCAGCCTGGCCAAC
---AGGAGCGCCTCTGC

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

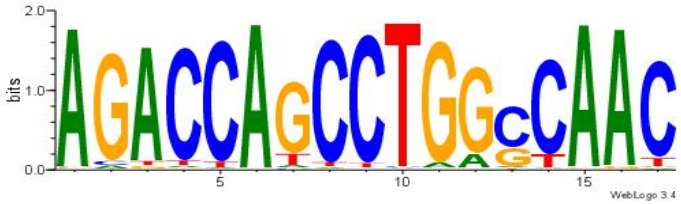

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

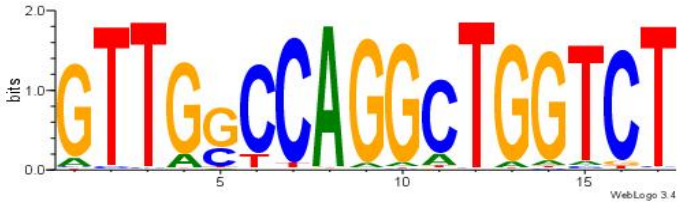

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.124991

Alignment:
TGATGGGTGCACCAAA
GCAGAGGCGCTCCT--

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

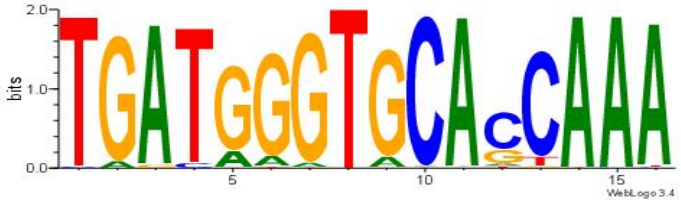

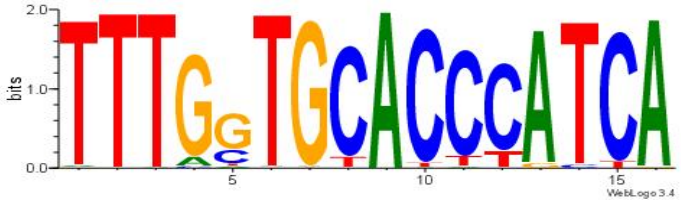

Dataset #: 1 Motif ID: 117 Motif name: Motif 117

Original motif Consensus sequence: AACAACAACAACAAMAA

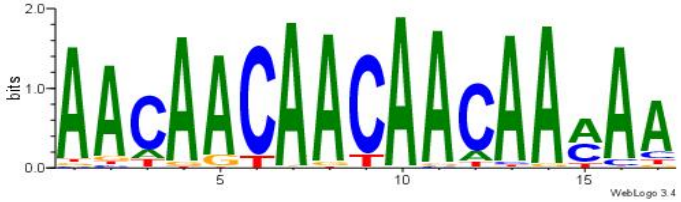

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

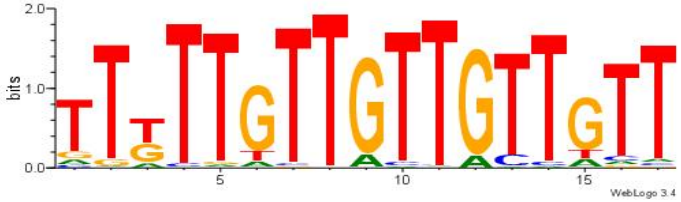

Best Matches for Motif ID 117 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0705339

Alignment:

GTCTCWAMAAAAAAWAMAAA
--AACAACAACAACAAMAA-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

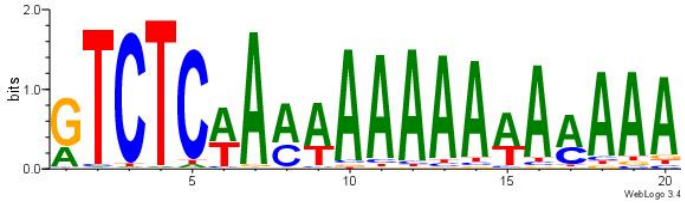

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

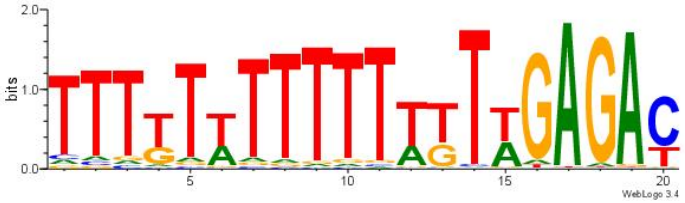

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0820961

Alignment:
TGTGTGTGTGTKTGTGTGT
--TTYTTGTTGTTGTTGTT

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

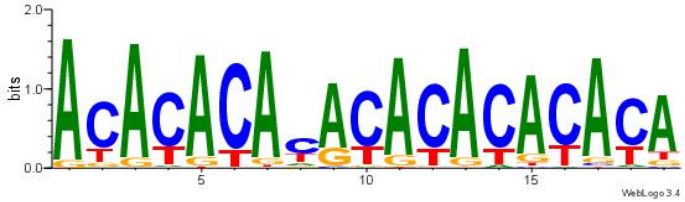

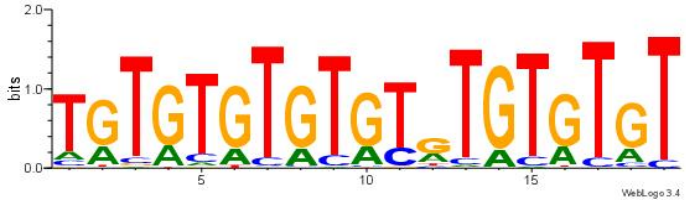

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0864402

Alignment:

```
CTATTGTGAATARTGCTGC
--TTYTTGTTGTTGTTGTT
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

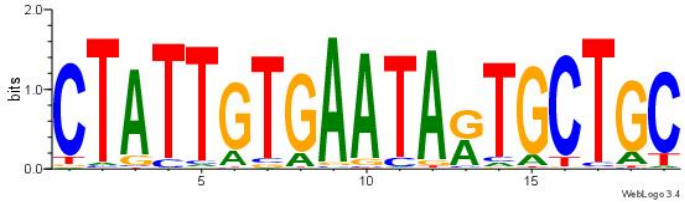

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

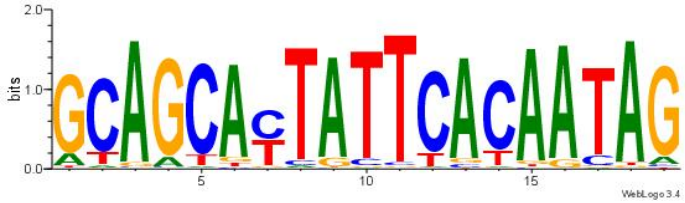

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0907831

Alignment:

```
KKCACCTTGATCTTGGACTT
---TTYTTGTTGTTGTTGTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

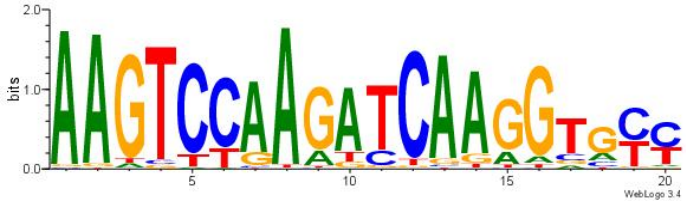

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

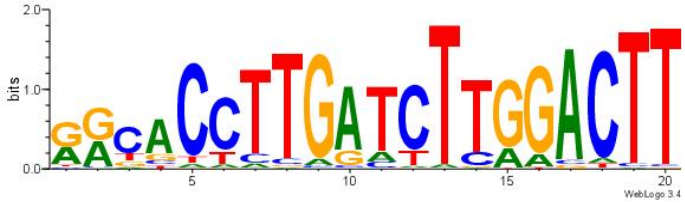

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.0925617

Alignment:
TYTGTCMTTTTGTGACTGGC
TTYTTGTTGTTGTTGTT---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

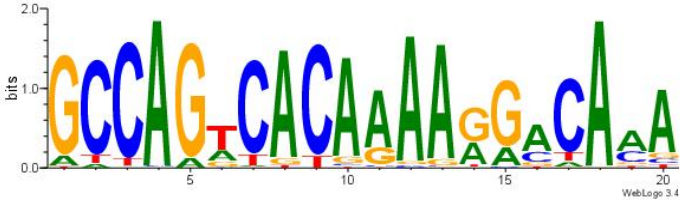

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

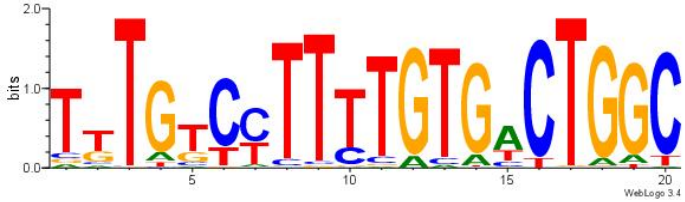

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0951373

Alignment:
AGGCCCCAGTGTSTGTTGTT
---TTYTTGTTGTTGTTGTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

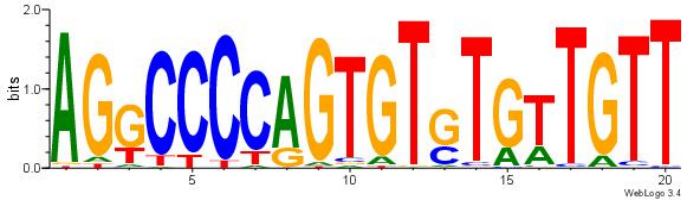

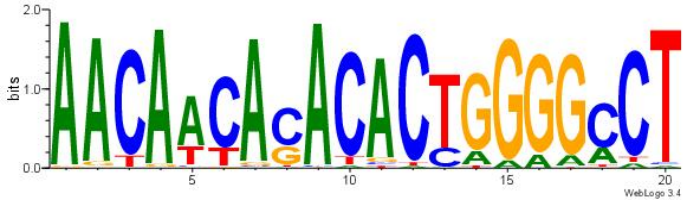

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0960289

Alignment:

```
ATATTGATGATCCTGACC
TTYTTGTTGTTGTTGTT-
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

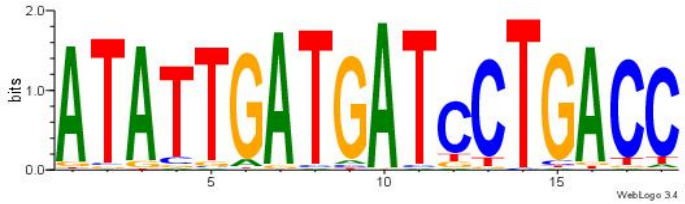

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

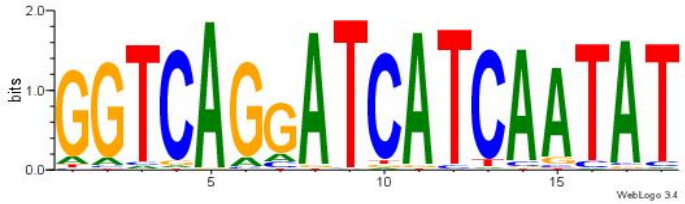

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0994281

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
--TTYTTGTTGTTGTTGTT-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

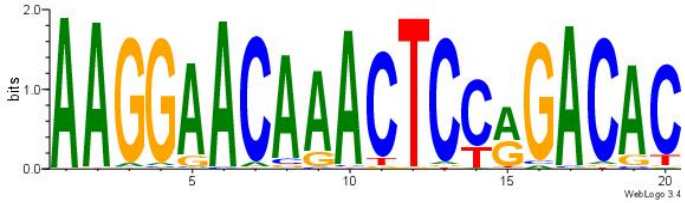

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

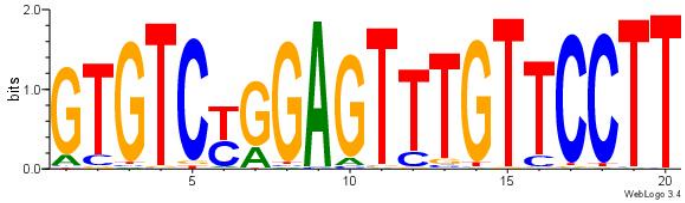

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.0998268

Alignment:
CAGTCTGTGTCTTTTAATT
--TTYTTGTTGTTGTTGTT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

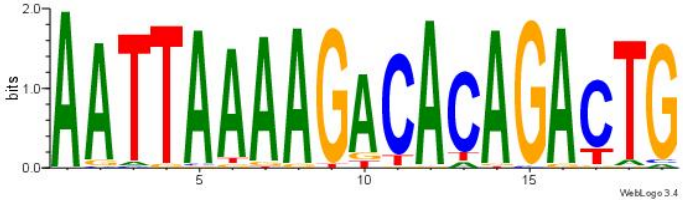

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

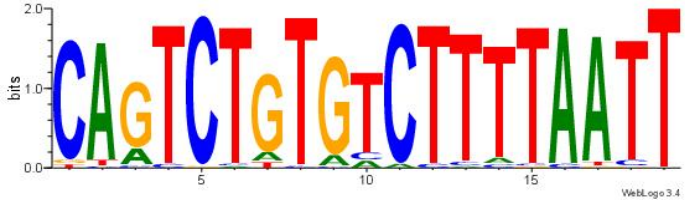

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.101005

Alignment:
GAAACTGCTTTGTGATGTGT
--TTYTTGTTGTTGTTGTT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

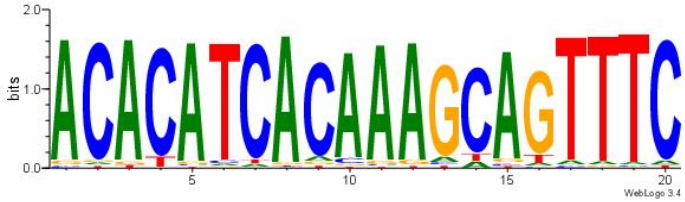

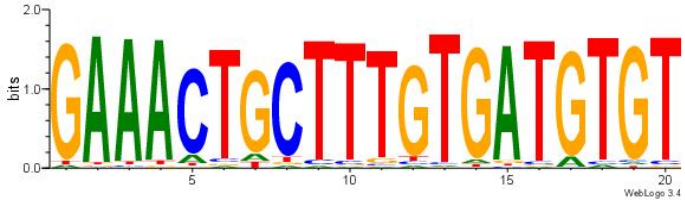

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.102925

Alignment:

```
ATAGGAATGCTTGTGATTTT
---TTYTTGTTGTTGTTGTT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

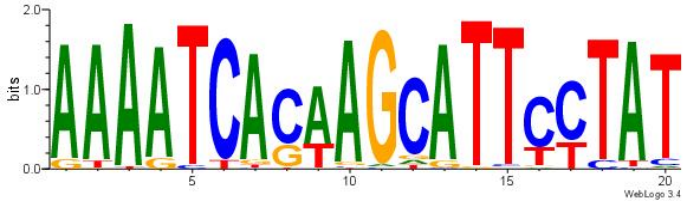

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

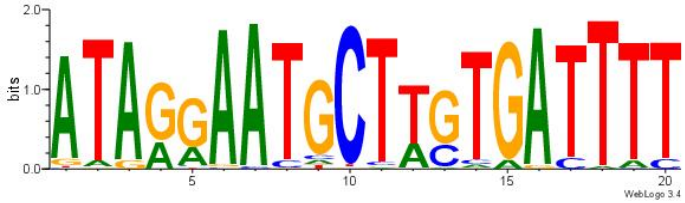

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.103835

Alignment:

```
GTAACACTCACCGCGARGGT
--AACAACAACAACAAMAA-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

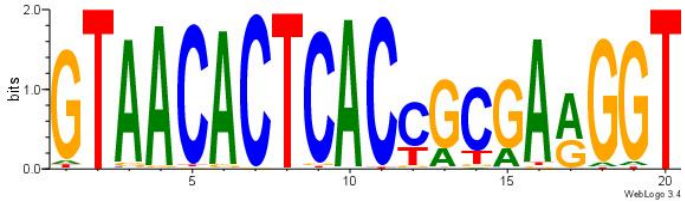

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

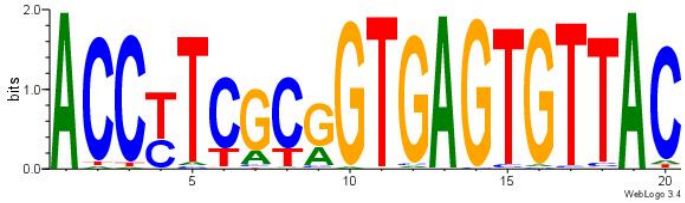

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.104593

Alignment:
GTTATTAATTGGCCTAATTT
--TTYTTGTTGTTGTTGTT-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

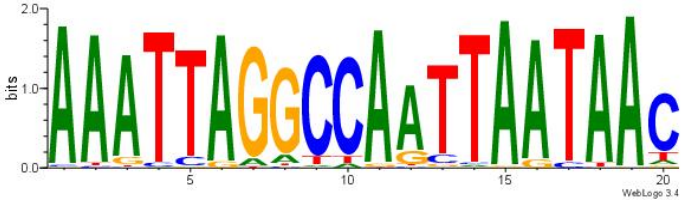

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.10512

Alignment:
ACCCAATWTGTAGTCTTTTA
-TTYTTGTTGTTGTTGTT--

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

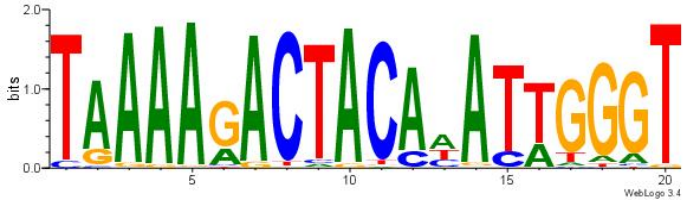

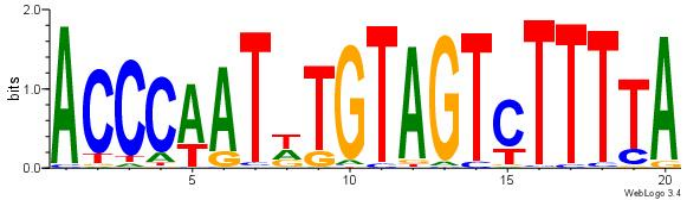

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.10552

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-AACAACAACAACAAMAA--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

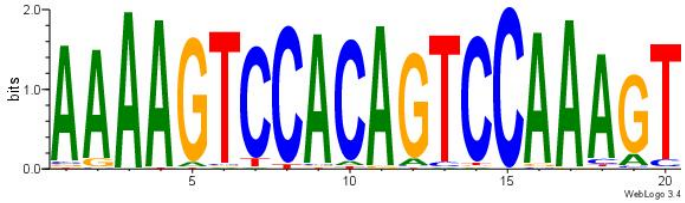

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

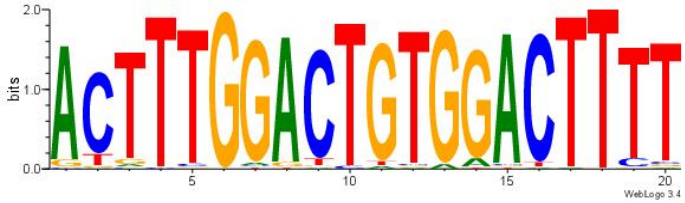

Dataset #: 1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.106445

Alignment:

```
CAAAGGCATAAGAATGAT
AACAACAACAACAAMAA-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

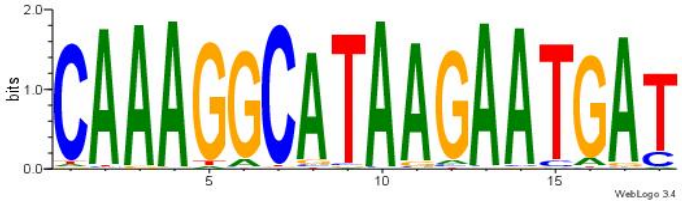

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

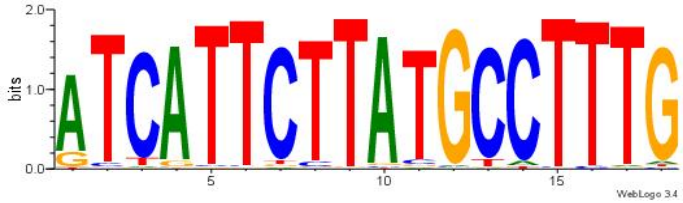

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.106968

Alignment:
AGAGCCAAATCATGARTGAA
--AACAACAACAACAAMAA-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

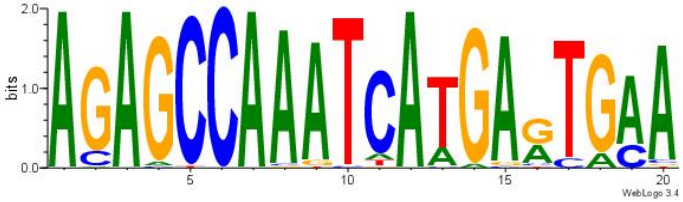

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

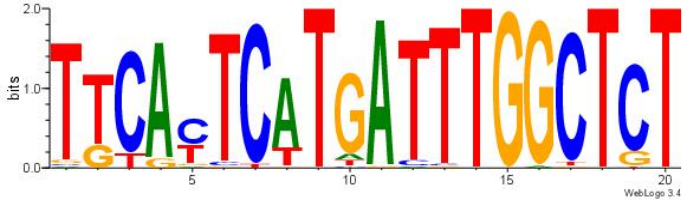

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.109338

Alignment:
AAGTCTCCCAATTACAACT
AACAACAACAACAAMAA--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

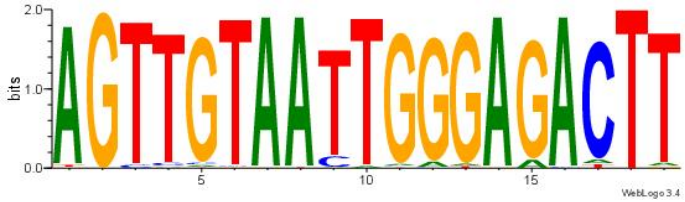

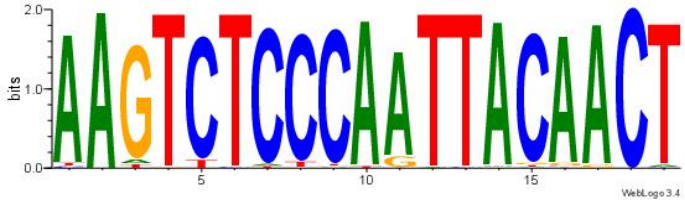

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.109378

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
--TTYTTGTTGTTGTTGTT-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

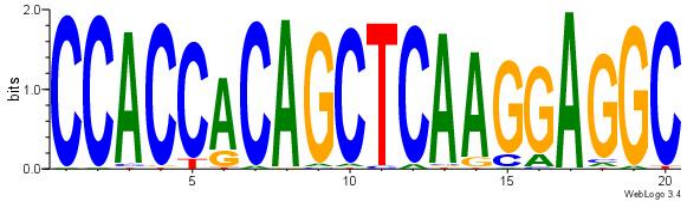

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

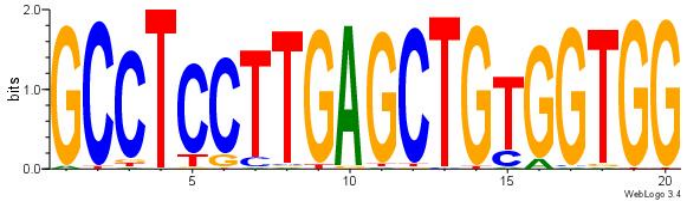

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.11047

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
--TTYTTGTTGTTGTTGTT-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

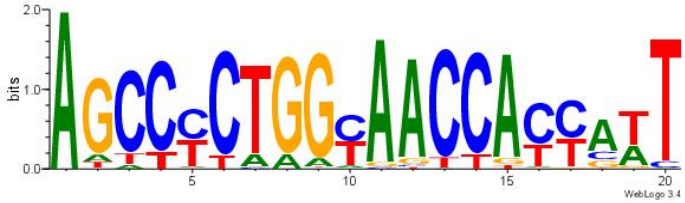

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

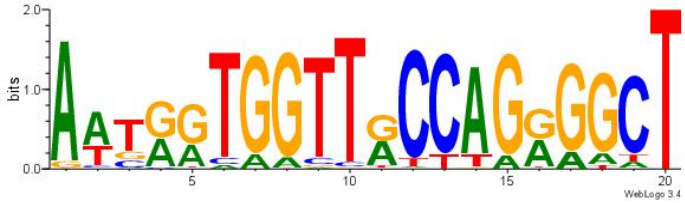

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.110556

Alignment:
ATCTCASAAATCACCACTA
--AACAACAACAACAAMAA

Original motif Consensus sequence: ATCTCASAAATCACCACTA

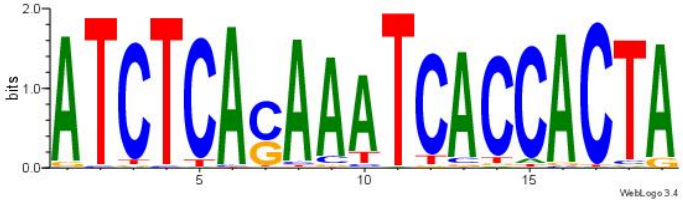

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

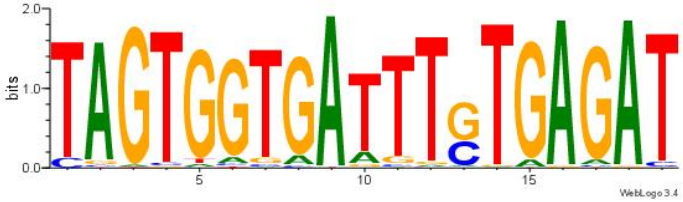

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.110612

Alignment:
CGGCTTCATTCTTGAAGTC
--TTYTTGTTGTTGTTGTT

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

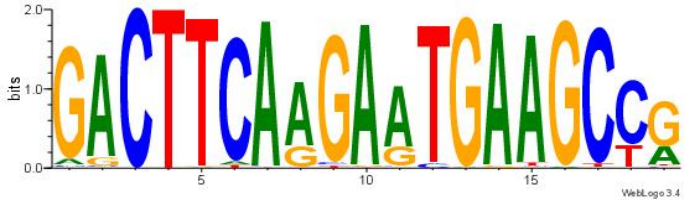

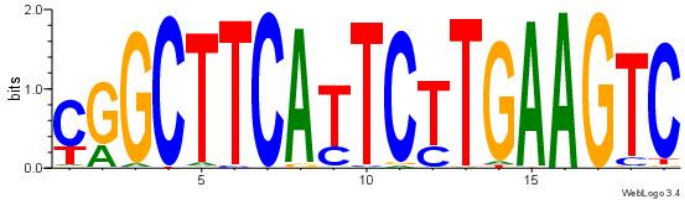

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.110923

Alignment:

```
CTTGGGTGGTCGATGGGAC
TTYTTGTTGTTGTTGTT--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

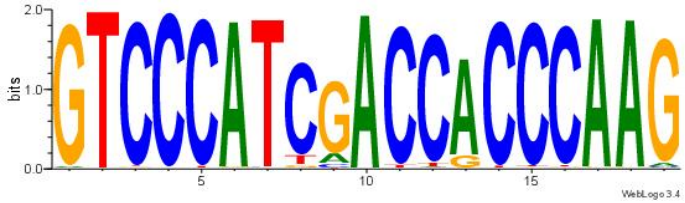

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

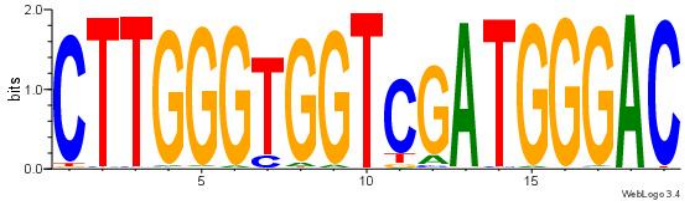

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.11153

Alignment:

```
AATCAACCCTGGYRATCAAT
-AACAACAACAACAAMAA--
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

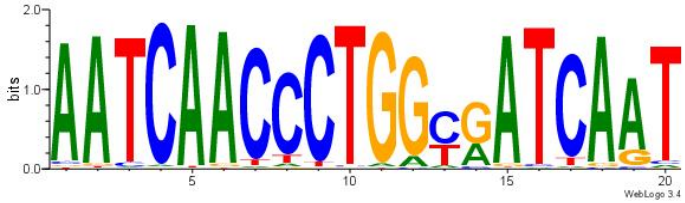

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

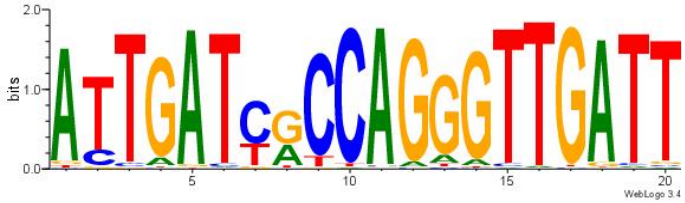

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.11167

Alignment:
ATAAAAACTTGCTGGTTTT
--TTYTTGTTGTTGTTGTT

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

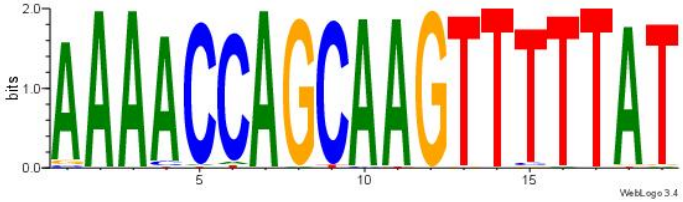

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

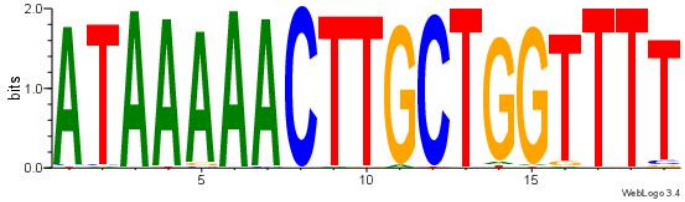

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.112455

Alignment:
ATTGGTGTATTTACAATCCC
--TTYTTGTTGTTGTTGTT-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

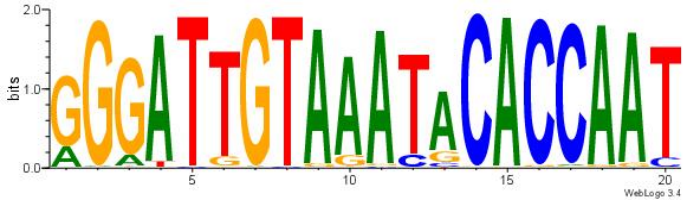

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.11265

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-TTYTTGTTGTTGTTGTT--
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

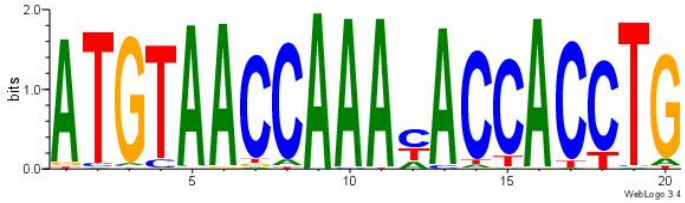

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

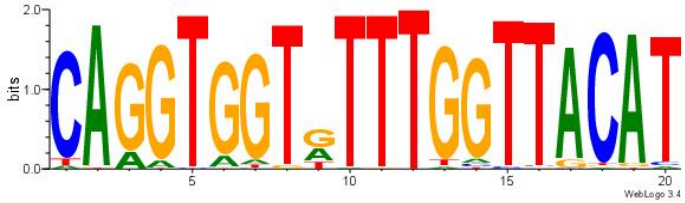

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.112806

Alignment:

```
AATGAKATCATGTCYTTTGC
TTYTTGTTGTTGTTGTT---
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

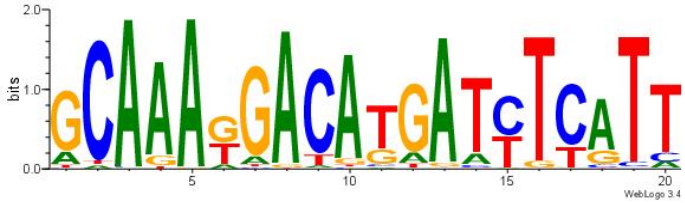

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

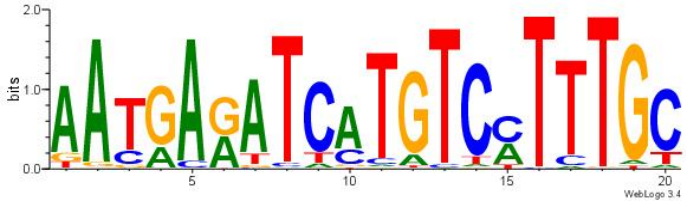

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.113008

Alignment:
CAAGTTGACACATAAAATTA
AACAACAACAACAAMAA---

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

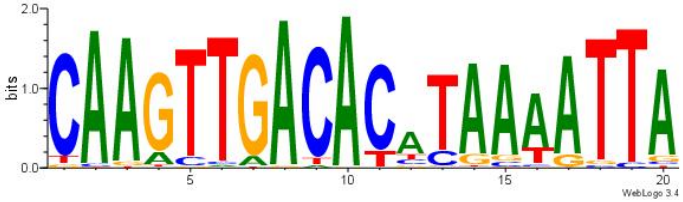

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

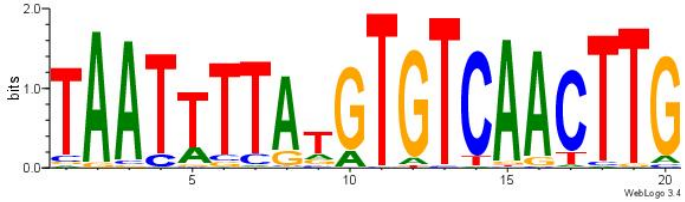

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.113782

Alignment:
GACAGGAGATTAACACTGAG
--AACAACAACAACAAMAA-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

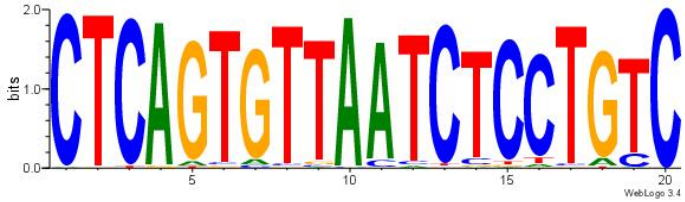

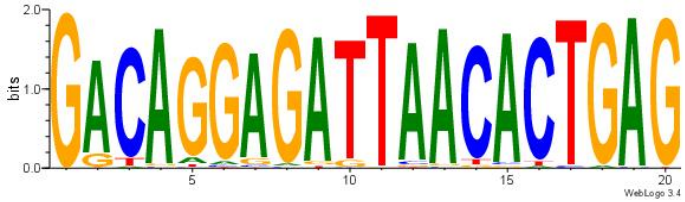

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.113817

Alignment:

```
AGGTTTGTTACATAGGTAWA
-TTYTTGTTGTTGTTGTT--
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

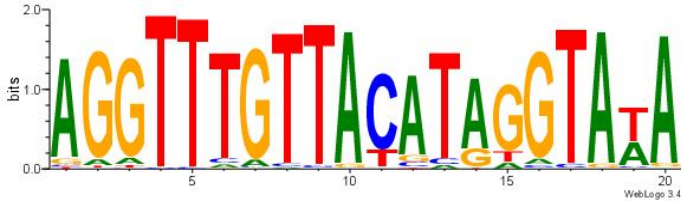

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

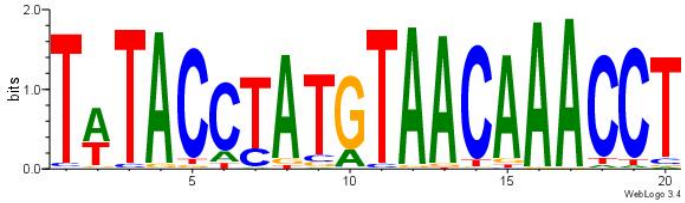

Dataset #: 1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.114626

Alignment:

```
TGATACCCAGGCAAACAG
-AACAACAACAACAAMAA
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

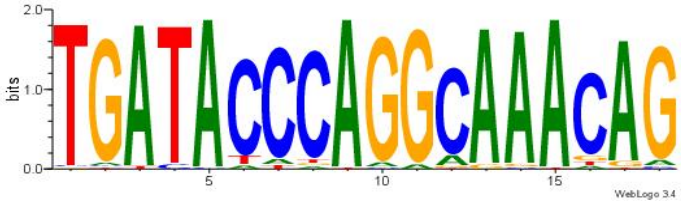

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

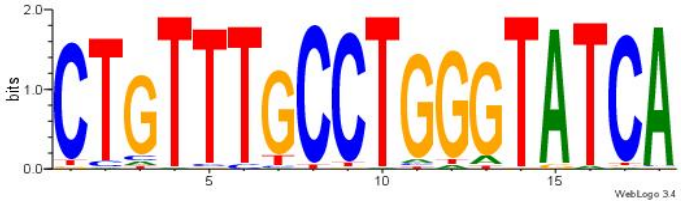

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.116158

Alignment:
GAAHCAACCKAAKTGTCCAT
-AACAACAACAACAAMAA--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

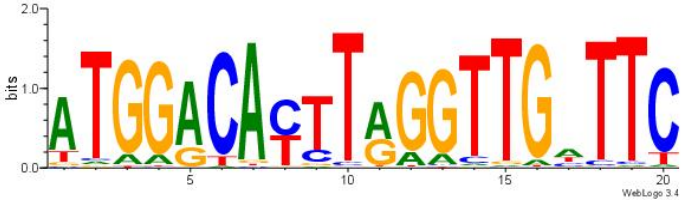

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

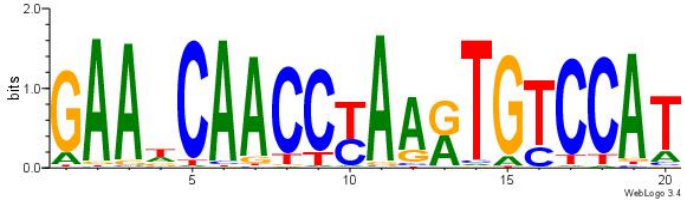

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.116445

Alignment:
TTGTCCCACTGGAAGGTCTT
---TTYTTGTTGTTGTTGTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

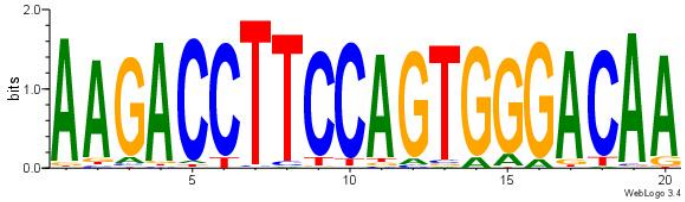

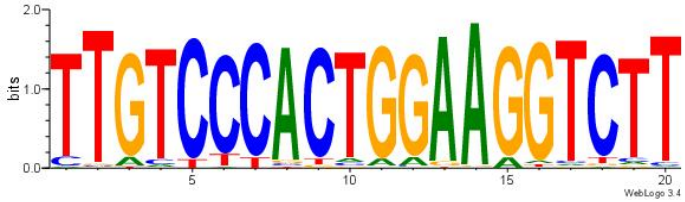

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.116888

Alignment:

```
GCACATGTAYCCYAGAACTT
-AACAACAACAACAAMAA--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

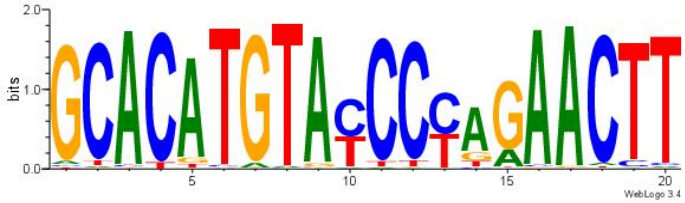

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

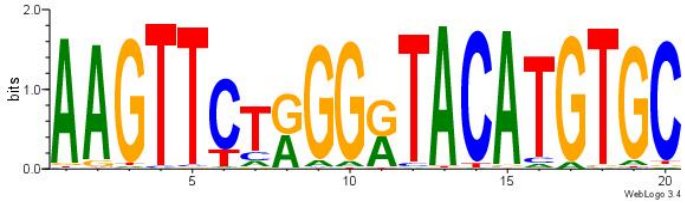

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.116969

Alignment:

```
AGGTCCTTCAGGAGGTATTC
--TTYTTGTTGTTGTTGTT-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

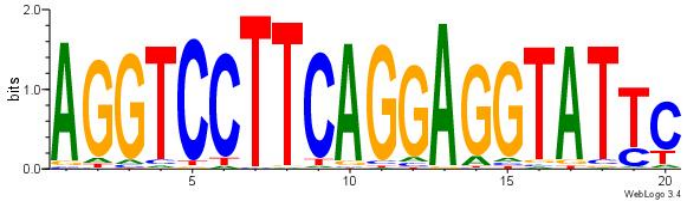

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

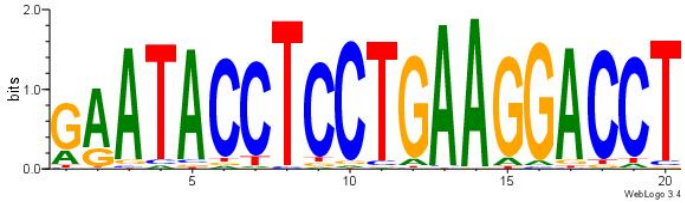

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.118508

Alignment:
AGGAACAGCTCCRGTCTAC
AACAACAACAACAAMAA--

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

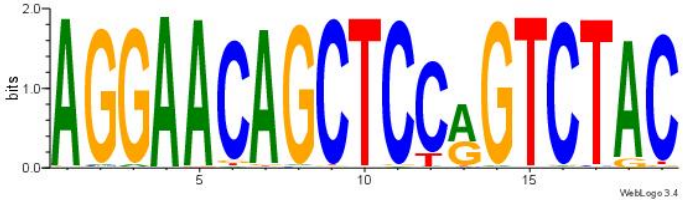

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

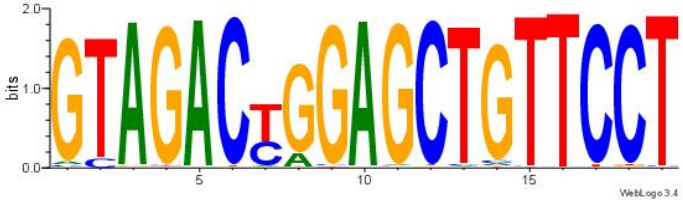

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.118611

Alignment:
AGTAGGTGCTCARTAAATRB
AACAACAACAACAAMAA---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

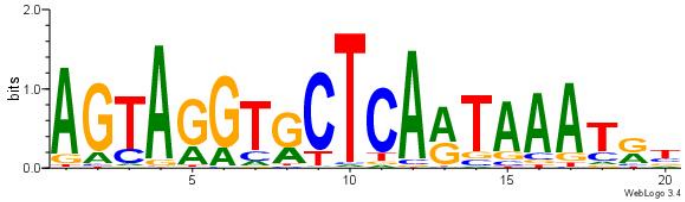

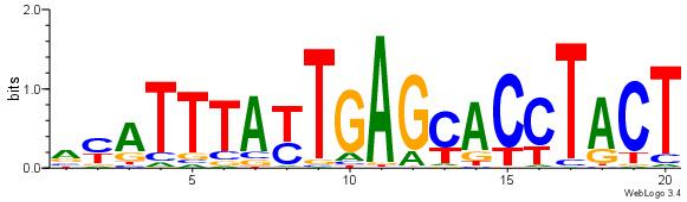

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.118894

Alignment:

```
AAAATGTGGTAYATAYAYAC
---TTYTTGTTGTTGTTGTT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

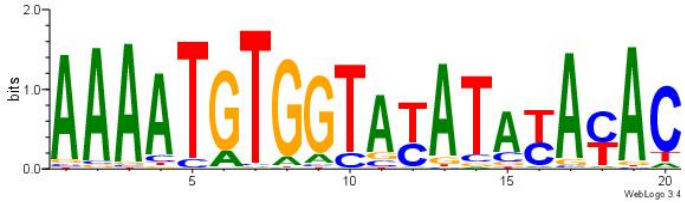

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

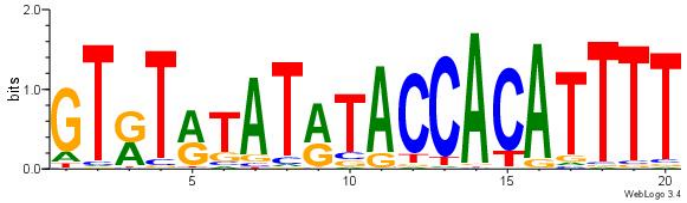

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.119001

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
---AACAACAACAACAAMAA
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

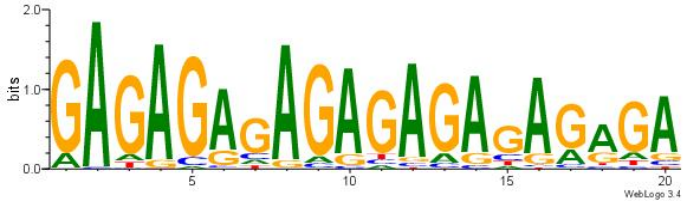

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

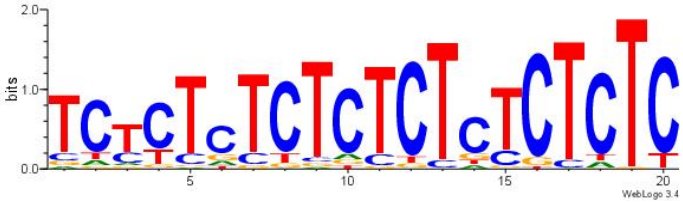

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.119004

Alignment:
AGTGAGAACATRYRRTRTTT
AACAACAACAACAAMAA---

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

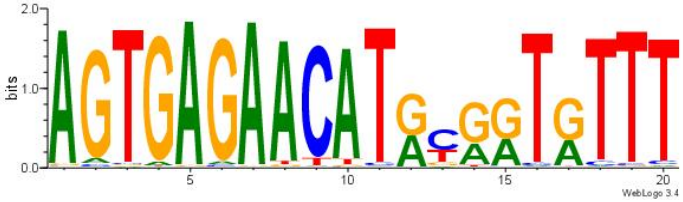

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

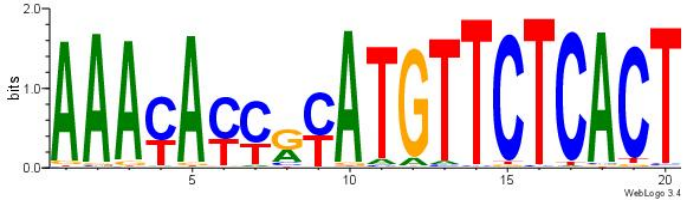

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.119382

Alignment:
GTTGTGAGGATTAAATGAG
TTYTTGTTGTTGTTGTT--

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

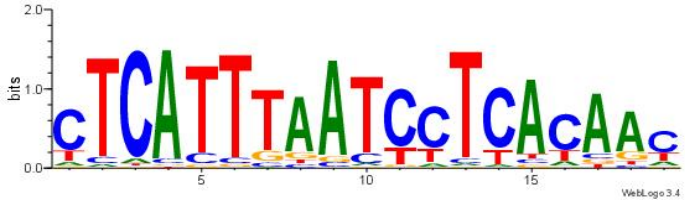

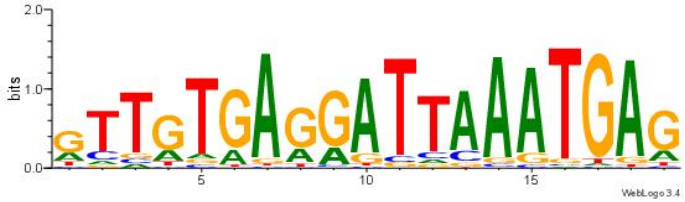

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.119566

Alignment:

```
HAGTGGKATTGCTGGATCAT
TTYTTGTTGTTGTTGTT---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

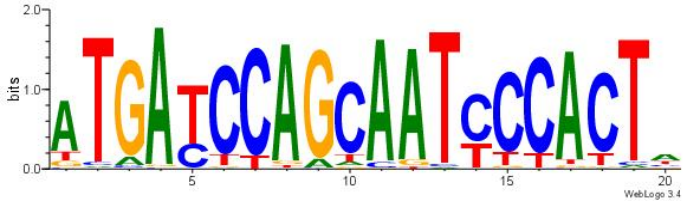

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

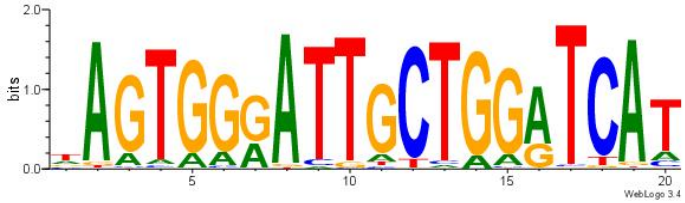

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.120283

Alignment:

```
ACTGTCTTCCACCTCCACAT
---AACAACAACAACAAMAA
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

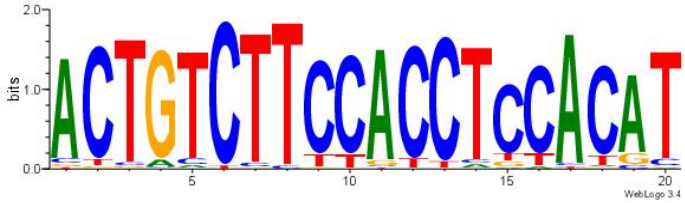

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

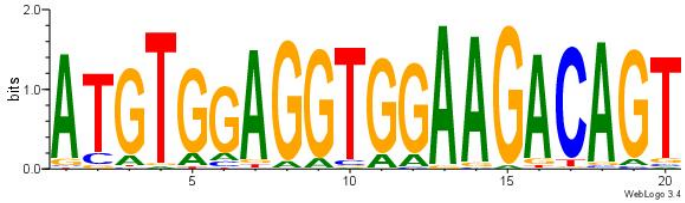

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.120584

Alignment:
TAGATAATAGCTCCAGCTTT
--AACAACAACAACAAMAA-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

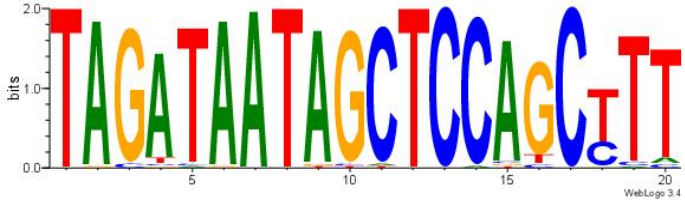

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

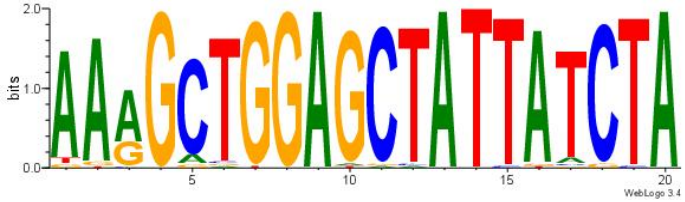

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.120962

Alignment:
CATTCTGGGGTCTGGAGGAY
--TTYTTGTTGTTGTTGTT-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

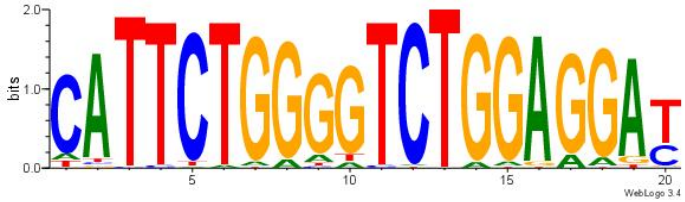

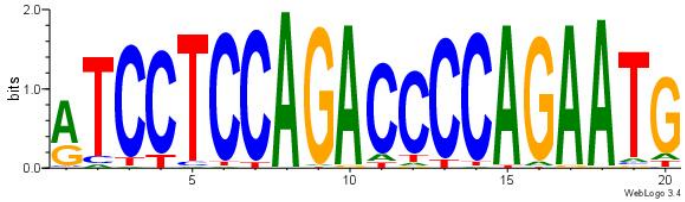

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.121845

Alignment:

```
KACGGGCTTAARAAACGGC
--AACAACAACAACAAMAA
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

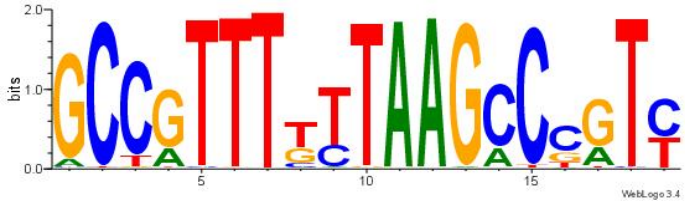

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

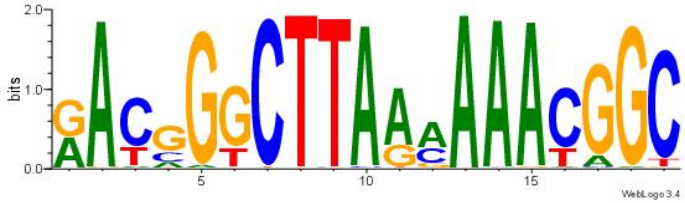

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.122282

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-TTYTTGTTGTTGTTGTT--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

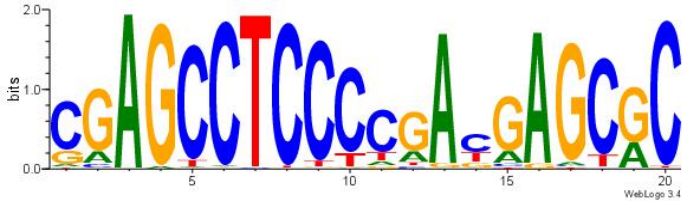

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

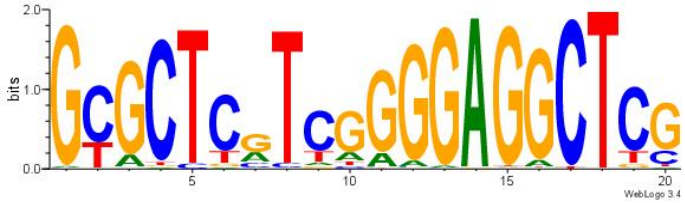

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.12236

Alignment:
CCCTGCTAGAACCTCCAA
AACAACAACAACAAMAA-

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

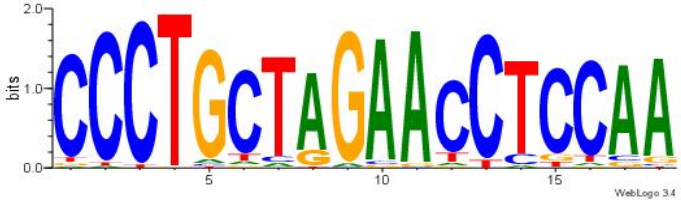

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

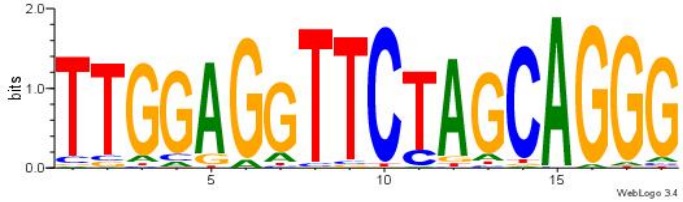

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.12281

Alignment:
GTTAACTGTAAAACAGCCT
AACAACAACAACAAMAA--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

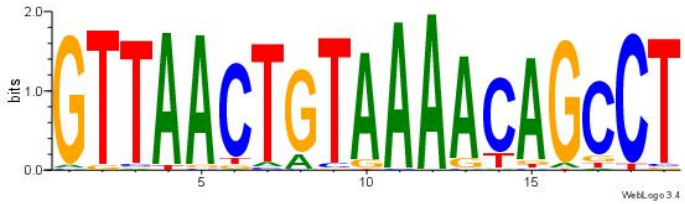

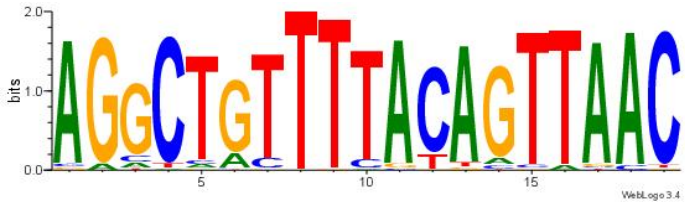

Dataset #: 1 Motif ID: 118 Motif name: Motif 118

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

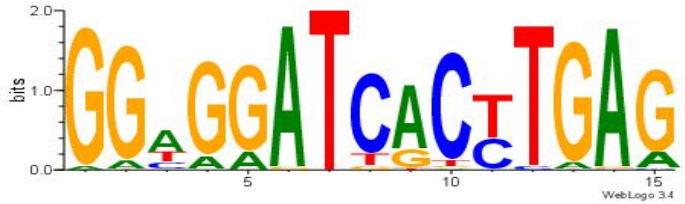

Best Matches for Motif ID 118 (Highest to Lowest)

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0724382

Alignment:

```
CTCATTTAATCCTCACAAC
CTCARGTGATCCTCC----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

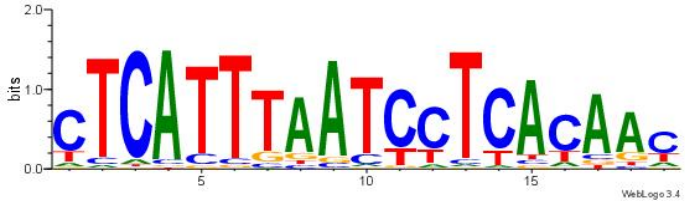

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

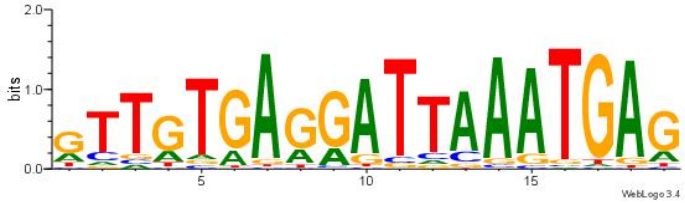

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0817171

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-CTCARGTGATCCTCC----
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

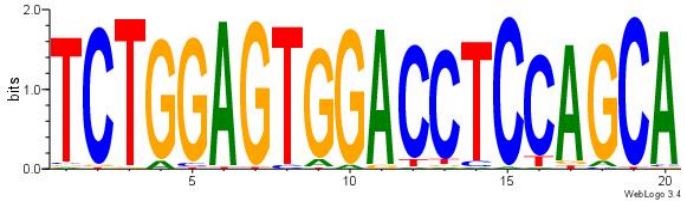

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

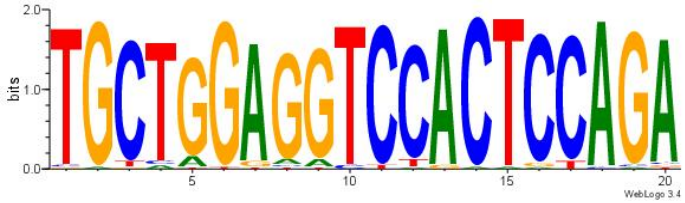

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0933094

Alignment:

```
HAGTGGKATTGCTGGATCAT
--GGAGGATCACKTGAG---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

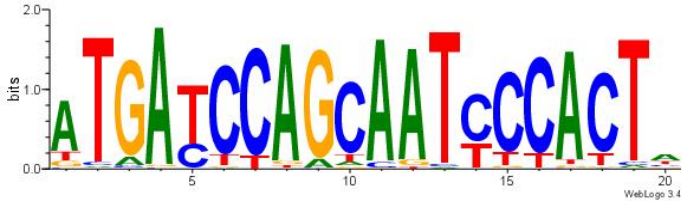

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

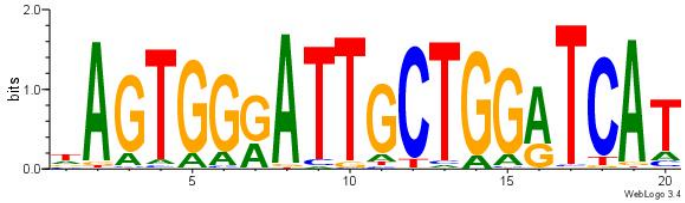

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.0976823

Alignment:
ARCTCCTGKSCTCAAGKGAT
-----GGAGGATCACKTGAG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

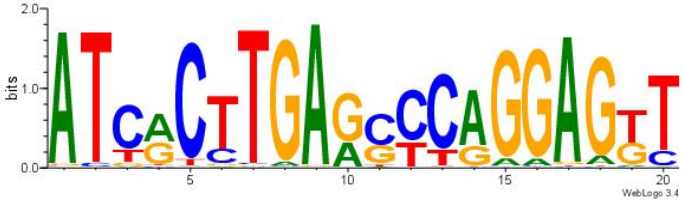

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

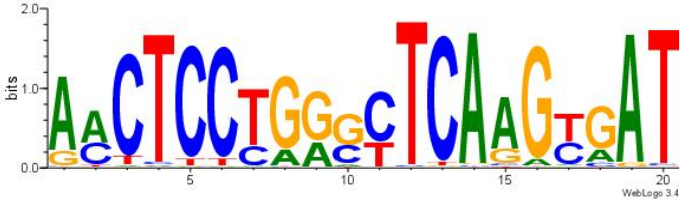

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.0995502

Alignment:
TGAGKCAATTAAACCTCTT
---CTCARGTGATCCTCC-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

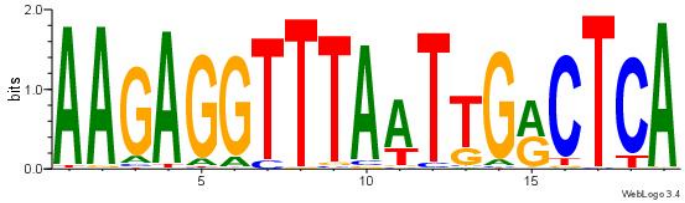

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

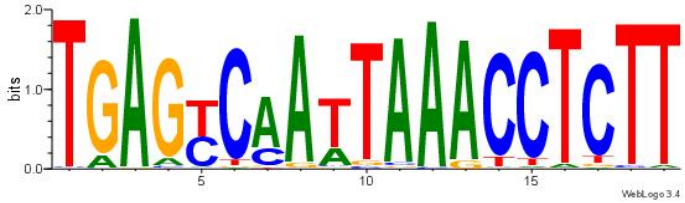

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.101626

Alignment:

```
AGCCYCTGGYAACCAYYAWT
---CTCARGTGATCCTCC--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

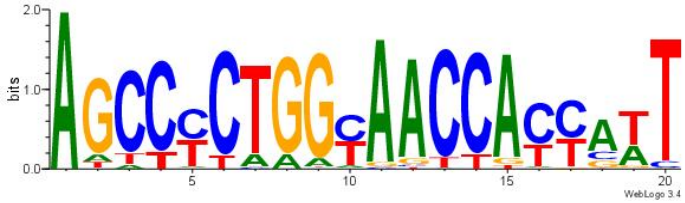

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

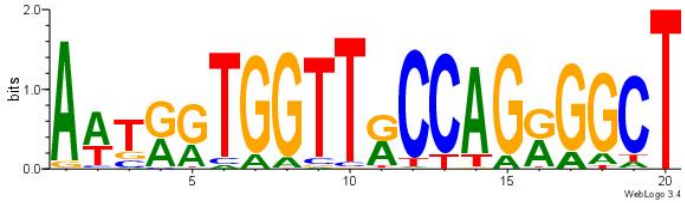

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.102485

Alignment:

```
GGGAGGGATATATTAGC
-GGAGGATCACKTGAG-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

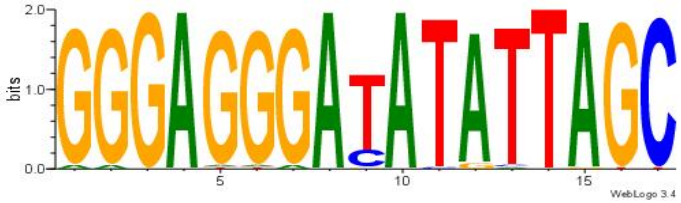

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

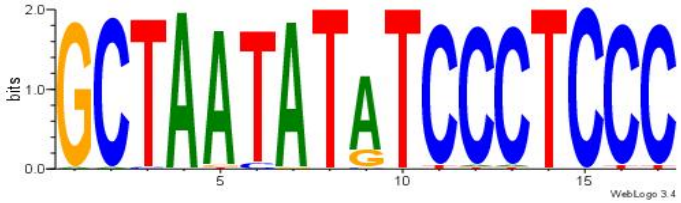

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.103928

Alignment:
CCCMKGGCACCCTCAGTCCT
CTCARGTGATCCTCC-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

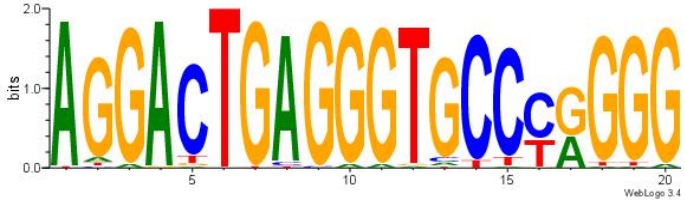

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

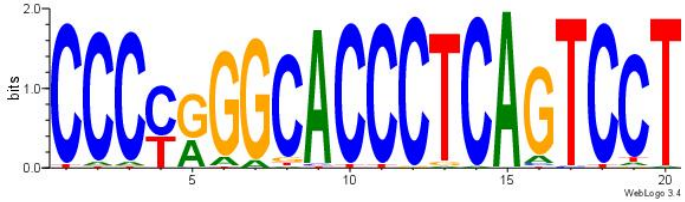

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.105467

Alignment:
CTCCTGCCTCAGCCTCCCRA
--CTCARGTGATCCTCC---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

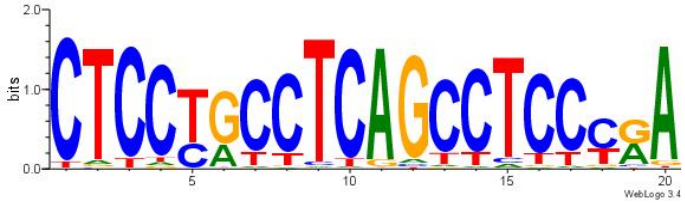

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

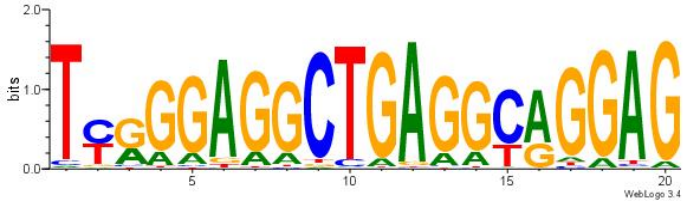

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.105937

Alignment:

```
AGTGACCCGATTTTCCAGGT
----CTCARGTGATCCTCC-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

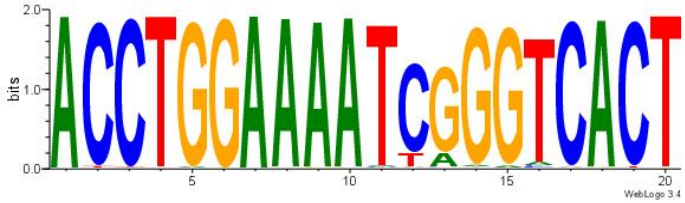

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

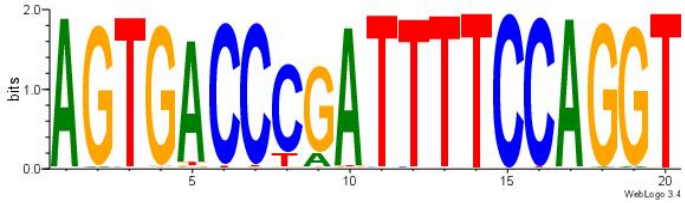

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.106046

Alignment:

```
CTTCGCTGACTCTCTTT
CTCARGTGATCCTCC--
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

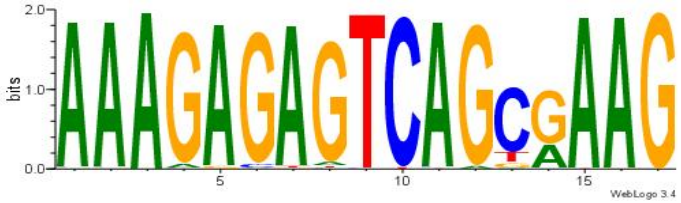

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

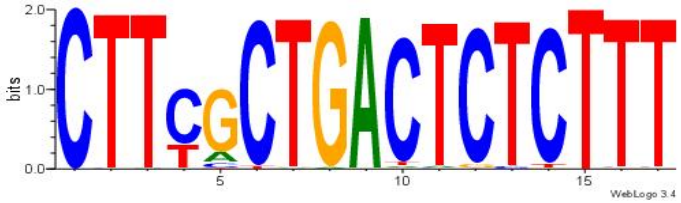

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.106415

Alignment:
ATCCATCCATCCATCCA
CTCARGTGATCCTCC--

Original motif Consensus sequence: ATCCATCCATCCATCCA

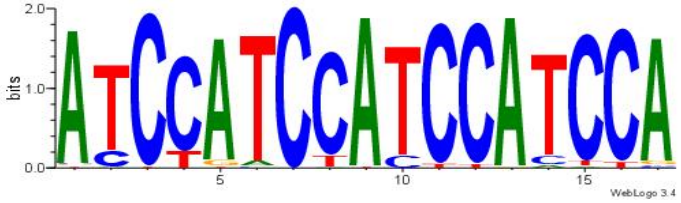

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.106469

Alignment:
TTGGTAGGATCCGTGATGCC
--GGAGGATCACKTGAG---

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

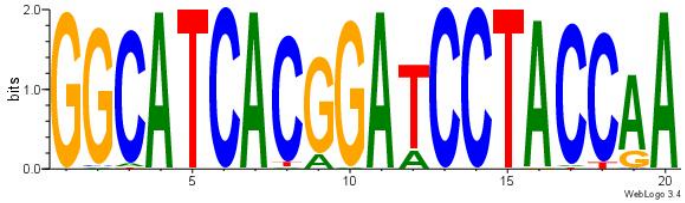

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

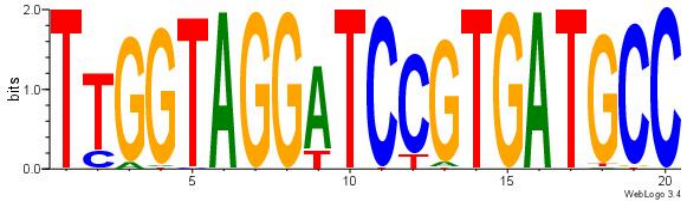

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.107143

Alignment:

```
AAAATCACAAGCATTCCTAT
-----CTCARGTGATCCTCC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

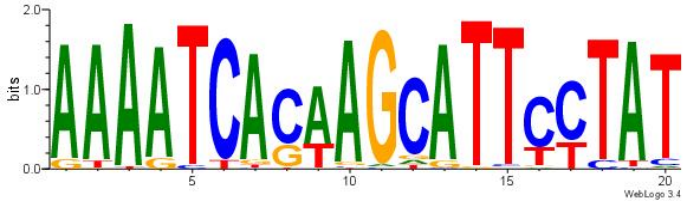

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

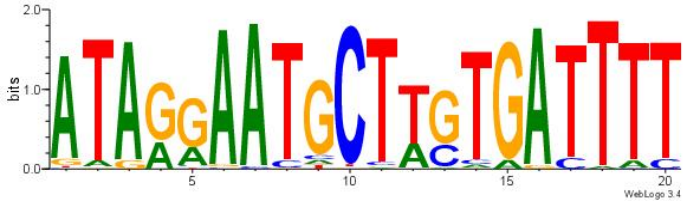

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.108686

Alignment:

```
TTGGAGGTTCTAGCAGGG
--GGAGGATCACKTGAG-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

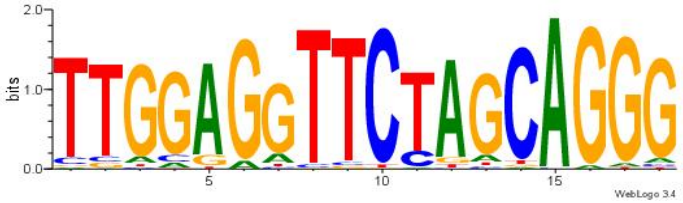

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.10891

Alignment:
CAGAAATCACCCGTCTT
CTCARGTGATCCTCC--

Original motif Consensus sequence: CAGAAATCACCCGTCTT

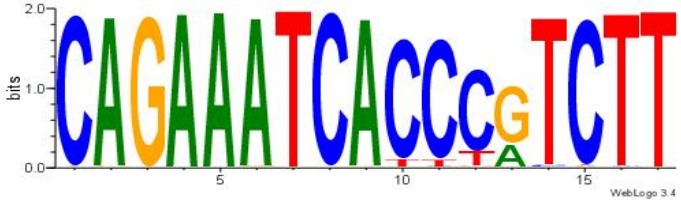

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

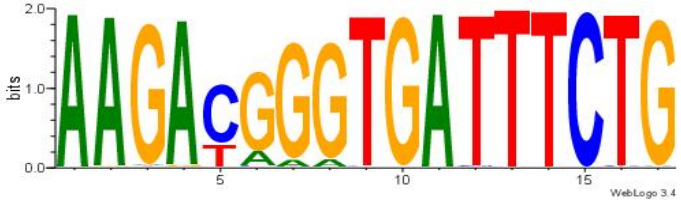

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.10913

Alignment:
ACTCCCTAGTGAGATGAACC
CTCARGTGATCCTCC-----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

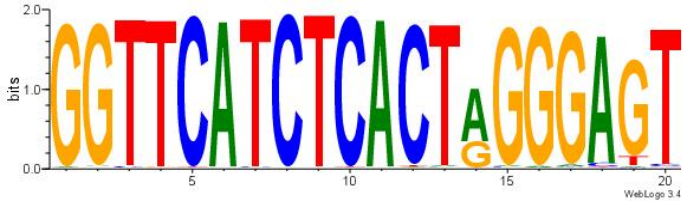

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

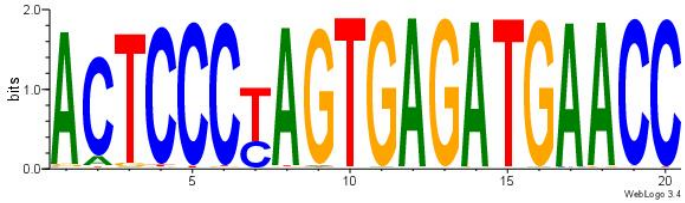

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.109188

Alignment:

```
ATGTGGAGGTGGAAGACAGT
----GGAGGATCACKTGAG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

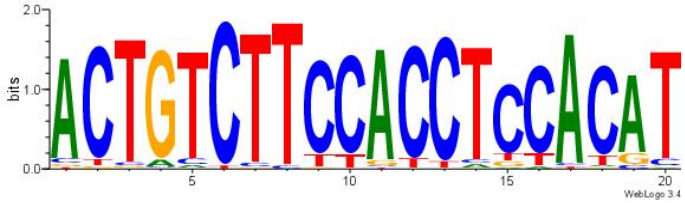

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

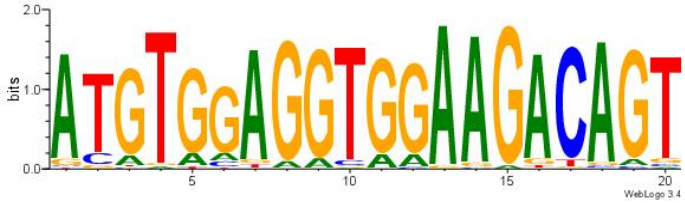

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.109608

Alignment:

```
CTCCTGACCTCGTGATC
-GGAGGATCACKTGAG-
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

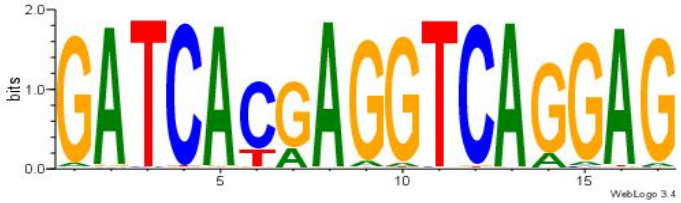

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

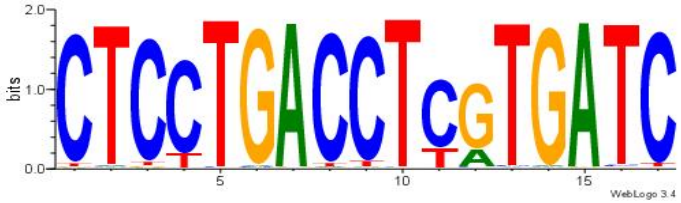

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.109668

Alignment:
AGAAATCGAGCRCAGCGCCG
----CTCARGTGATCCTCC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

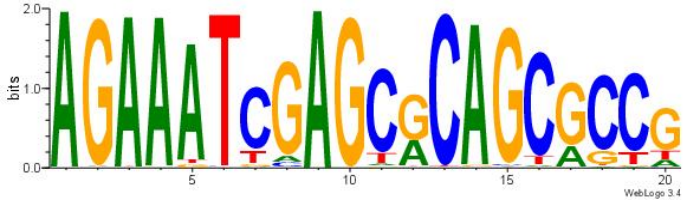

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

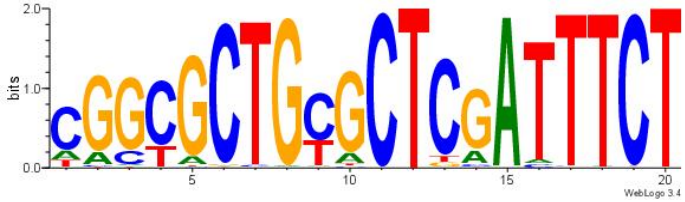

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.109753

Alignment:
GACAGGAGATTAACACTGAG
CTCARGTGATCCTCC-----

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

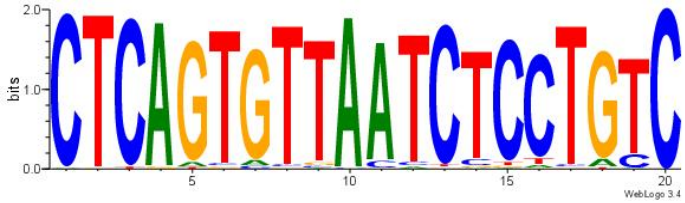

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

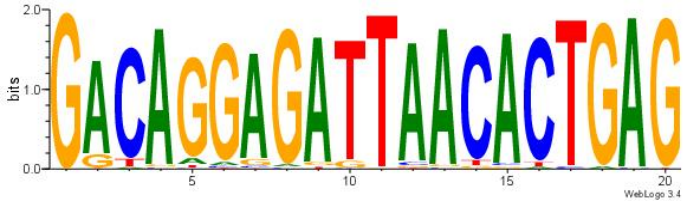

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.109762

Alignment:

```
AACCCTATTGTGAACTGYG
----CTCARGTGATCCTCC
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

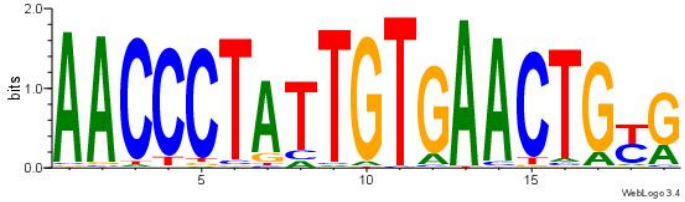

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

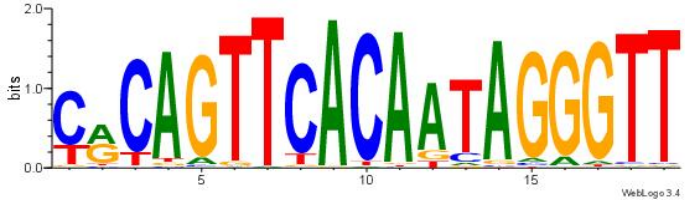

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.110587

Alignment:
GCAGCTTCACTCCTGA
GGAGGATCACKTGAG-

Original motif Consensus sequence: GCAGCTTCACTCCTGA

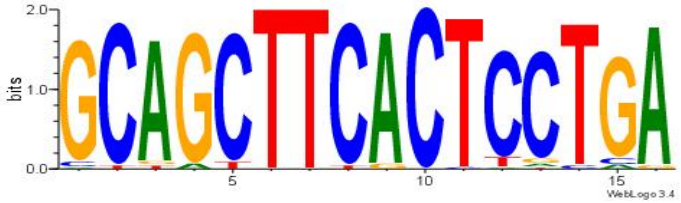

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

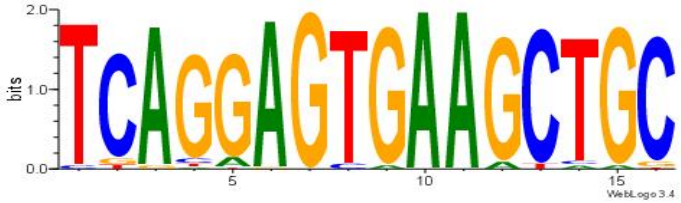

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.11086

Alignment:
ACATCCCAGACGATGGGCG
----CTCARGTGATCCTCC

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

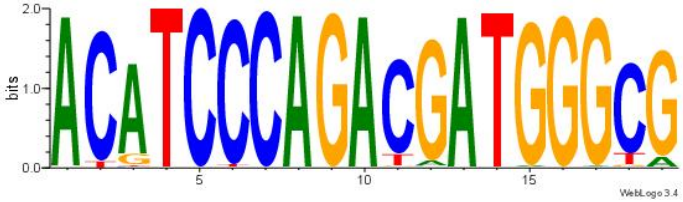

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

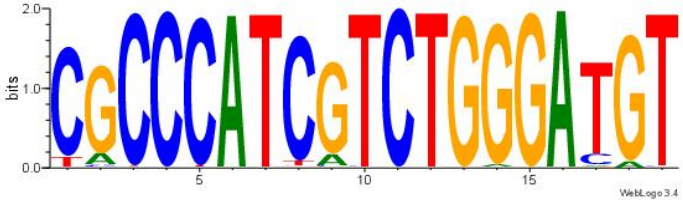

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.112174

Alignment:
AAAGCTGGAGCTATTATCTA
----CTCARGTGATCCTCC-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

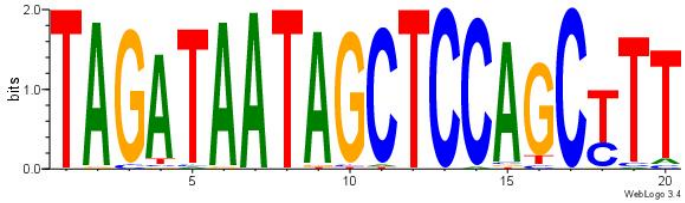

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

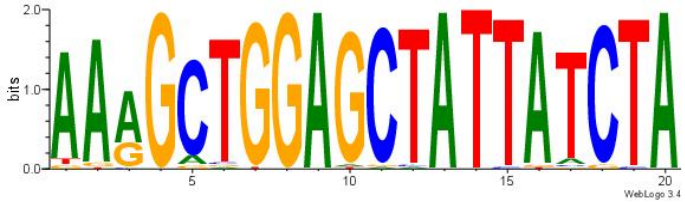

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.112543

Alignment:

```
TTGGTGGTCTCTTCACA
-GGAGGATCACKTGAG-
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

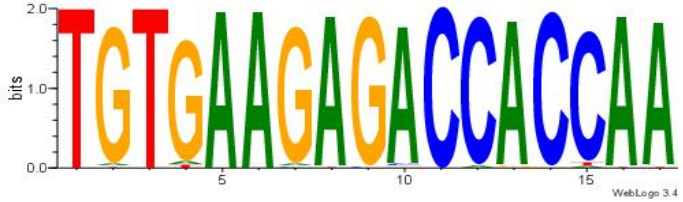

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

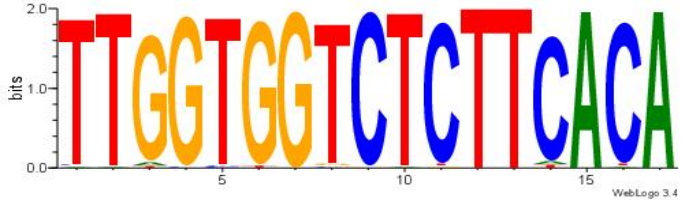

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.112693

Alignment:

```
GAAAGGGAACTCCCTGACCC
--GGAGGATCACKTGAG---
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

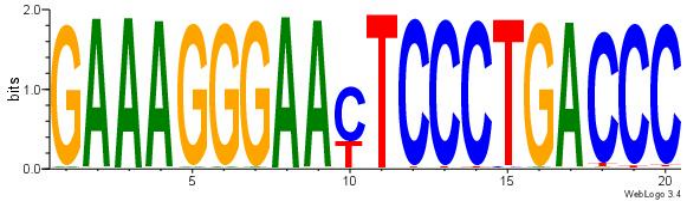

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

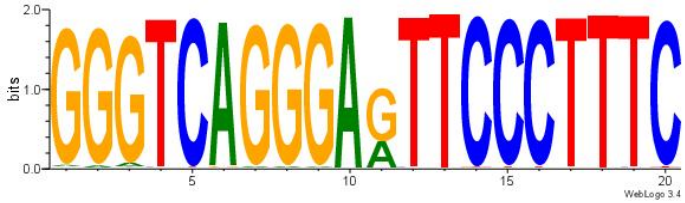

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.11345

Alignment:
MGTCTMKCTCTGTKGCCCAG
--CTCARGTGATCCTCC---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

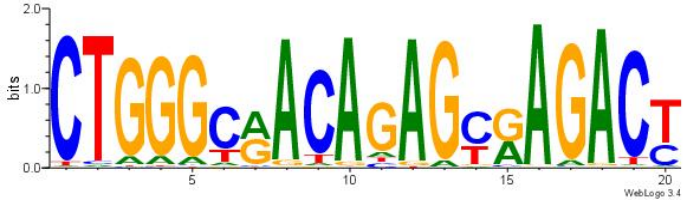

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

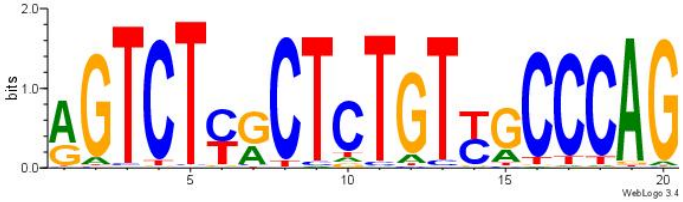

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.114359

Alignment:
GAGGAGGRGGAGGDGGV
--GGAGGATCACKTGAG

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

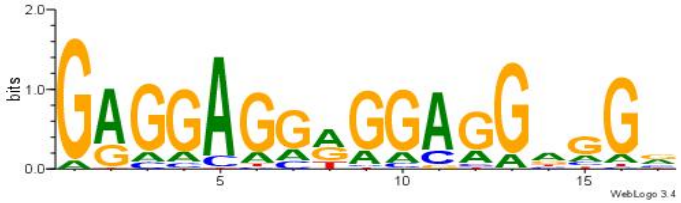

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

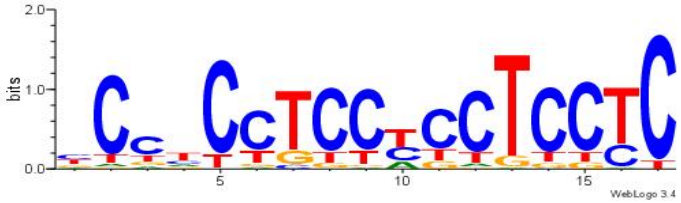

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.114485

Alignment:

```
CTTGGGTGGTCGATGGGAC
----GGAGGATCACKTGAG
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

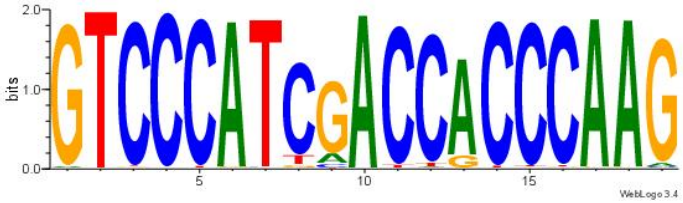

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

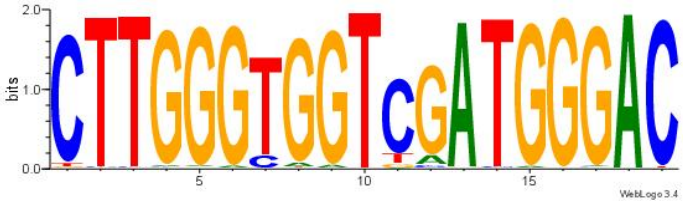

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.115234

Alignment:

```
AGTAGGTGCTCARTAAATRB
CTCARGTGATCCTCC-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

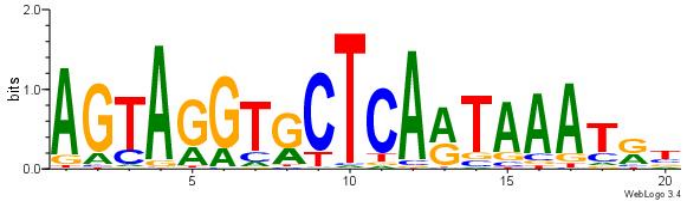

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

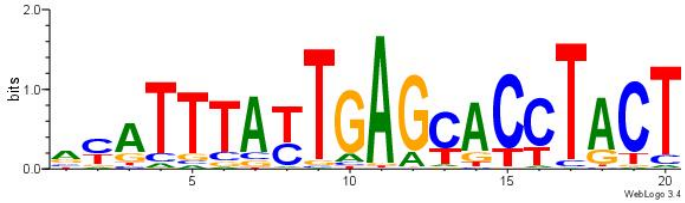

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 15
Similarity score: 0.115638

Alignment:
CTGACTGGGAGACACCTCCC
----CTCARGTGATCCTCC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

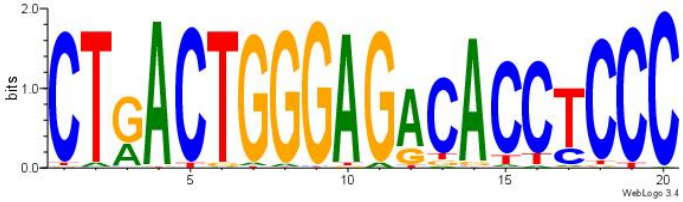

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

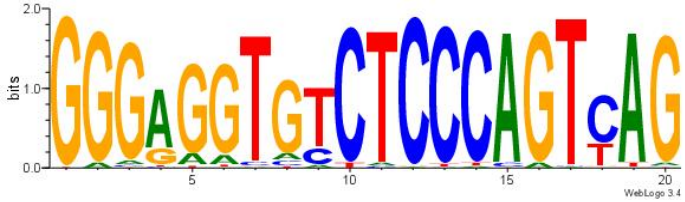

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.116153

Alignment:
AGGTTTGTTACATAGGTAWA
-GGAGGATCACKTGAG----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

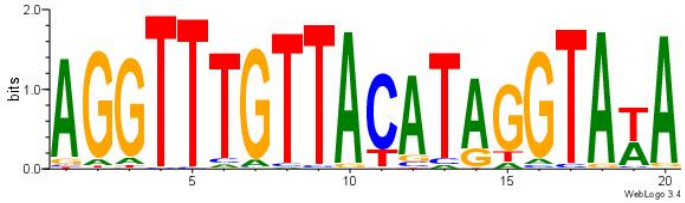

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

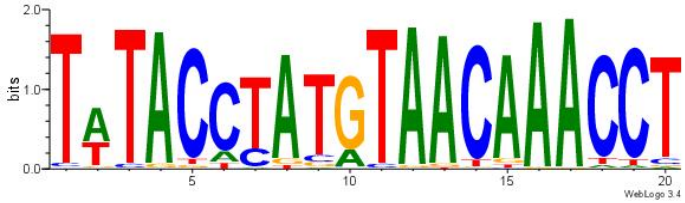

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.11677

Alignment:

```
AAGTTCTKGGKTACATGTGC
----GGAGGATCACKTGAG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

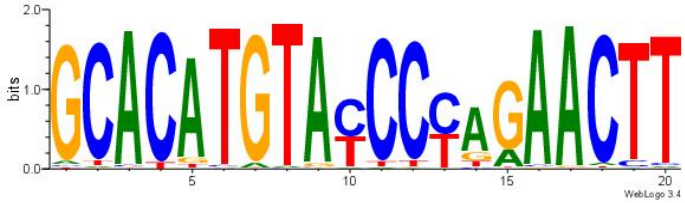

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

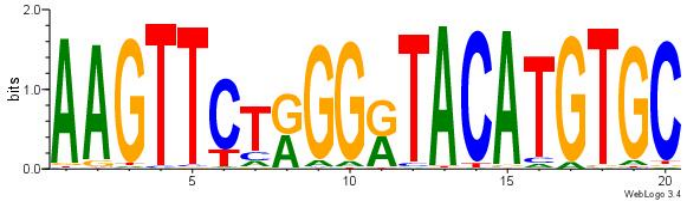

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.116957

Alignment:

```
TAGTGGTGATTTSTGAGAT
----GGAGGATCACKTGAG
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

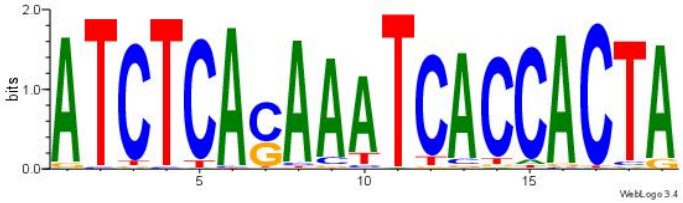

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

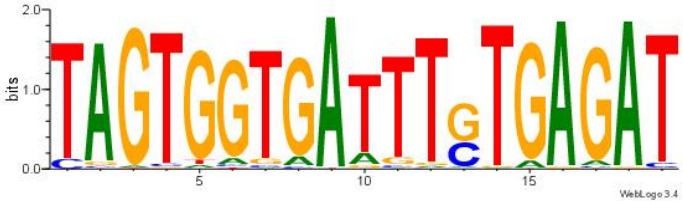

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.117122

Alignment:
AGAGTCTCACTCTGT
GGAGGATCACKTGAG

Original motif Consensus sequence: AGAGTCTCACTCTGT

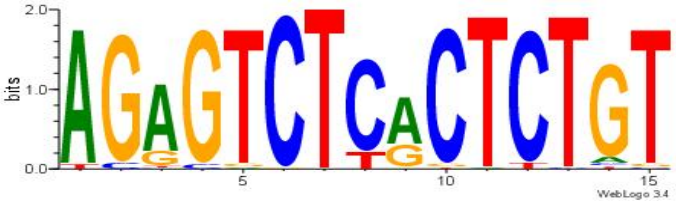

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

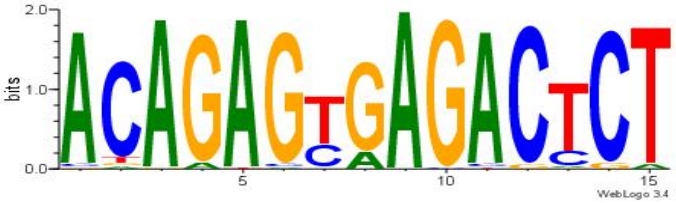

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.117226

Alignment:
CGAGCCTCCCCGAYGAGCGC
-----GGAGGATCACKTGAG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

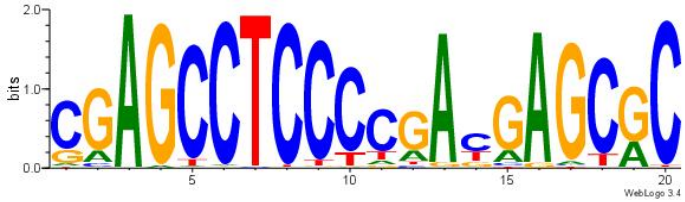

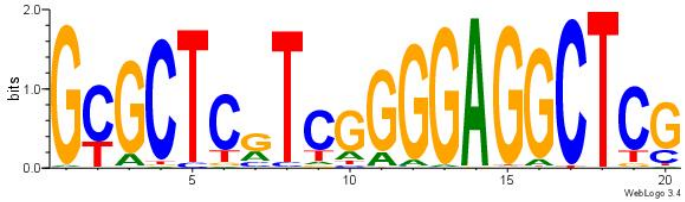

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.117439

Alignment:

```
CTTGCCCAAGGTCACACAGC
CTCARGTGATCCTCC-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

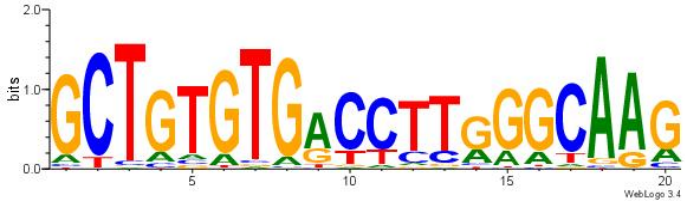

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

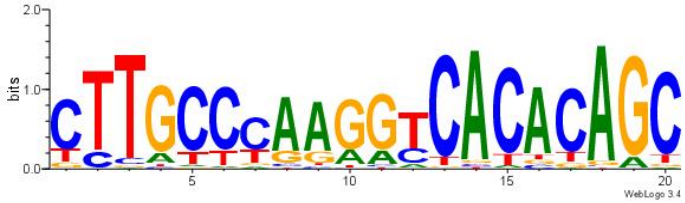

Dataset #:	1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.117705

Alignment:

```
GACTTCAAGAATGAAGCCG
---CTCARGTGATCCTCC-
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

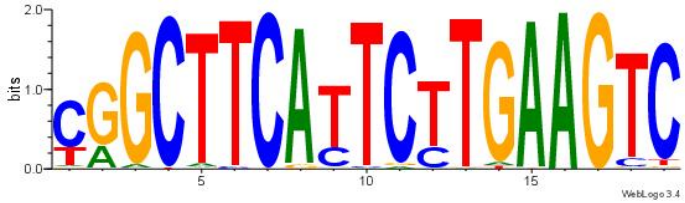

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.117773

Alignment:
TTGAGGAGGCAGTCTG
-GGAGGATCACKTGAG

Original motif Consensus sequence: CAGACTGCCTCCTCAA

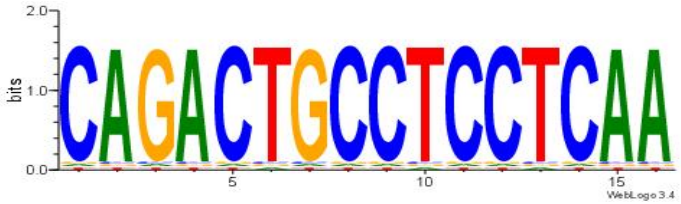

Reverse complement motif Consensus sequence:
TTGAGGAGGCAGTCTG

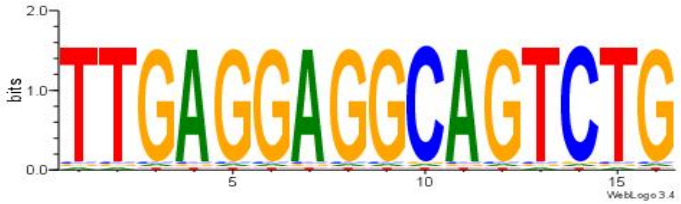

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.118091

Alignment:
AAGACCTTCCAGTGGGACAA
-GGAGGATCACKTGAG----

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

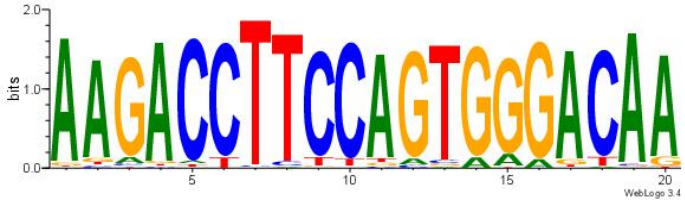

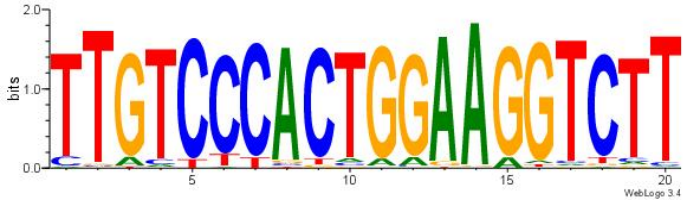

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.11816

Alignment:

```
TCACKMGGGAAGCGCAAG
--CTCARGTGATCCTCC-
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

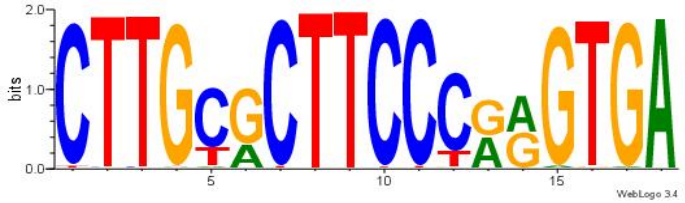

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

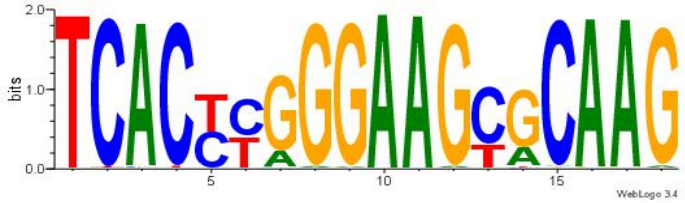

Dataset #:	1

Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.118351

Alignment:

```
ATATTGATGATCCTGACC
-CTCARGTGATCCTCC--
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

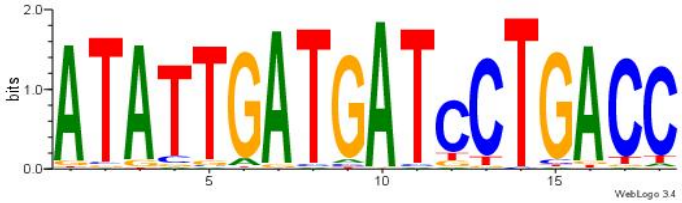

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

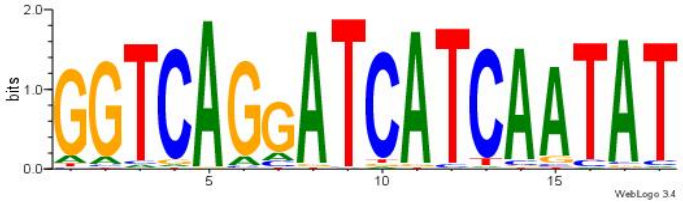

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.118457

Alignment:
GCGMGCGGGAACCGGGGCT
----GGAGGATCACKTGAG

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

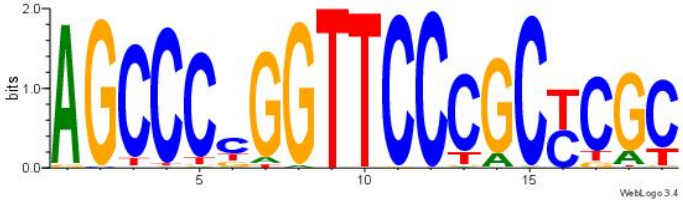

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

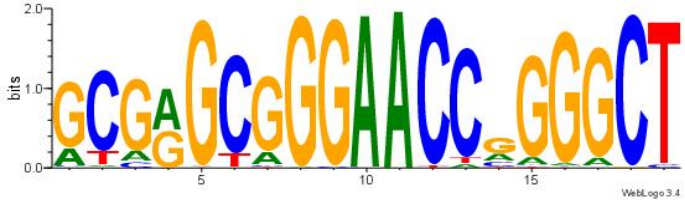

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.119154

Alignment:
GGGGGCTGACCCCCCCACC
-GGAGGATCACKTGAG---

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

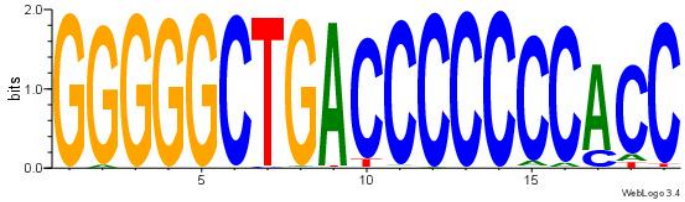

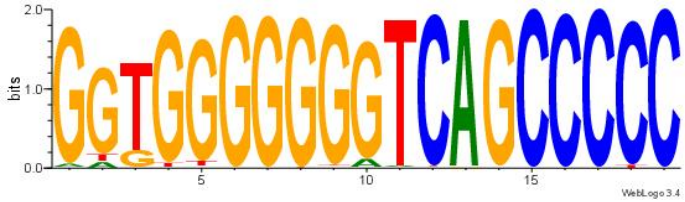

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.11979

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
--CTCARGTGATCCTCC---
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

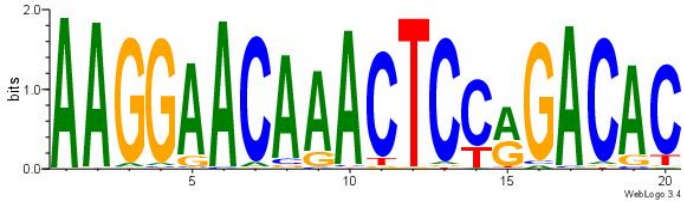

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

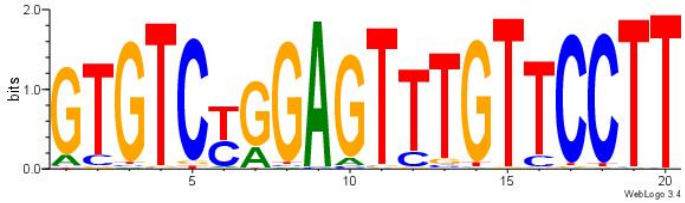

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.120154

Alignment:

```
ACTCAGCCCRCCTGCACCC
-CTCARGTGATCCTCC---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

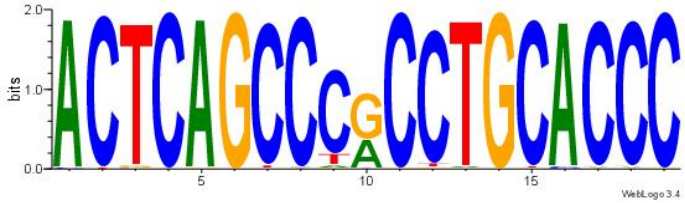

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

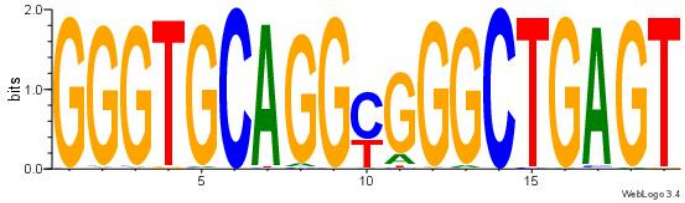

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.120327

Alignment:
CAAASCKGTCATAGGCCAT
--CTCARGTGATCCTCC--

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

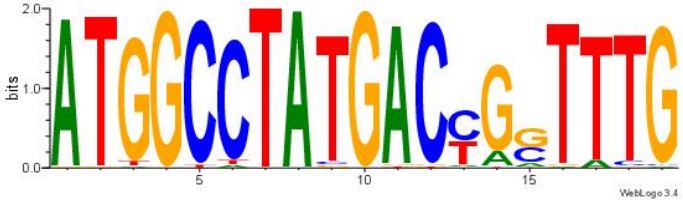

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

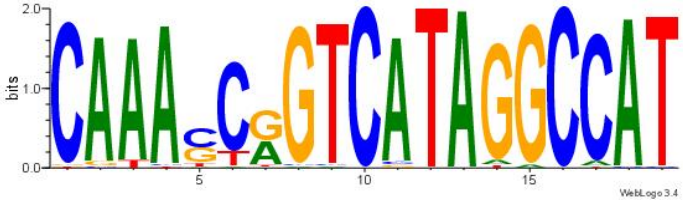

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.120591

Alignment:
GGGAGGAAGGGGACAC
-GGAGGATCACKTGAG

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

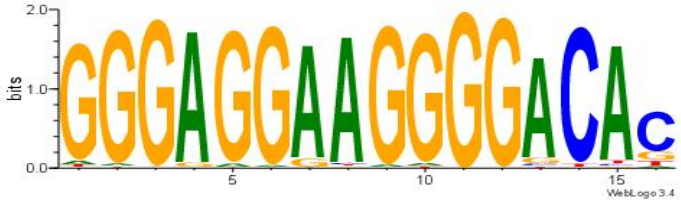

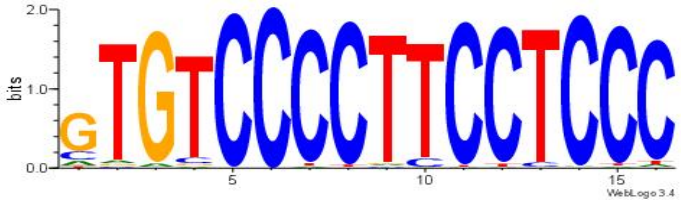

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.120841

Alignment:

```
CCCATGCAAGTCYRAAATCC
CTCARGTGATCCTCC-----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

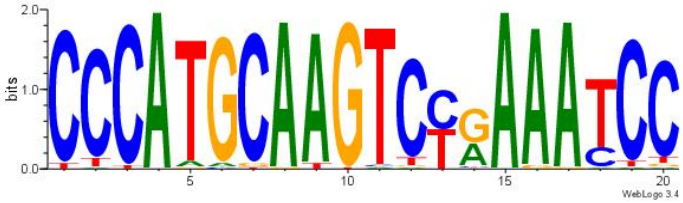

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

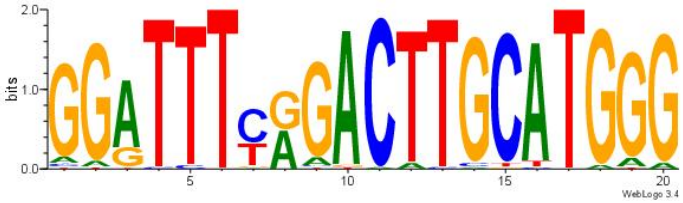

Dataset #: 1 Motif ID: 119 Motif name: Motif 119

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

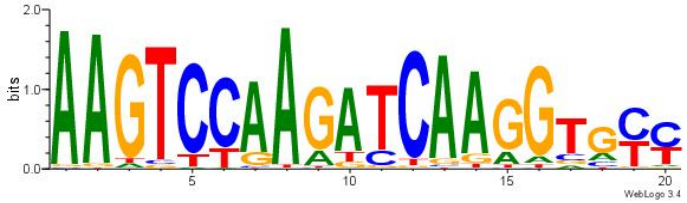

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

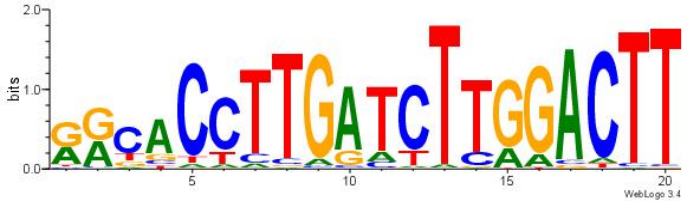

Best Matches for Motif ID 119 (Highest to Lowest)

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.103662

Alignment:

```
TTGTCCCACTGGAAGGTCTT
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

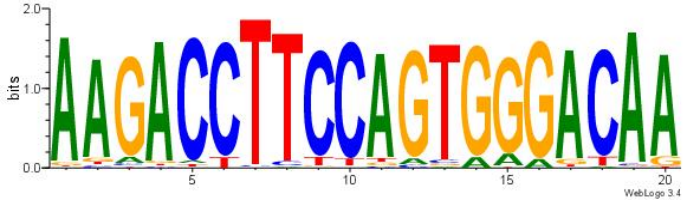

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

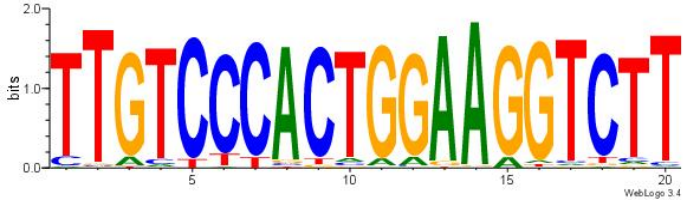

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.107278

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

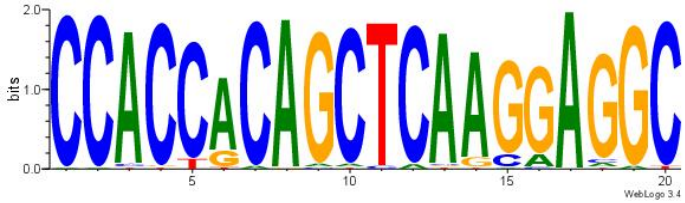

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

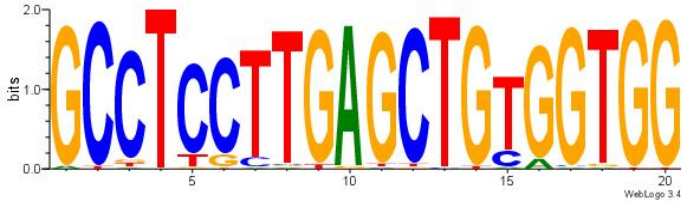

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number:	1
Number of overlap:	20
Similarity score:	0.111713

Alignment:
ARCTCCTGKSCTCAAGKGAT
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

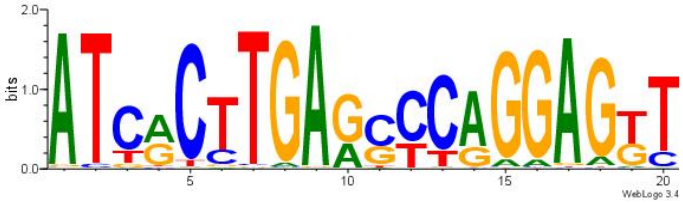

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

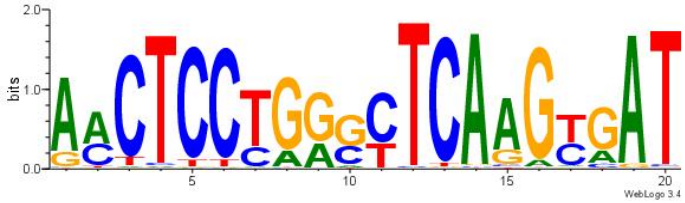

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11466

Alignment:
AGGTCCTTCAGGAGGTATTC
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

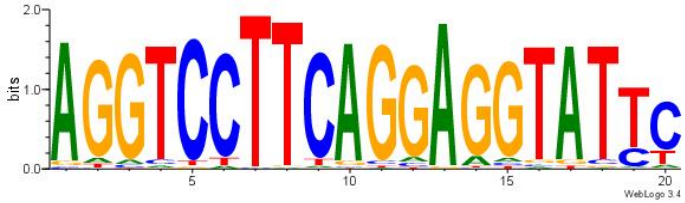

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

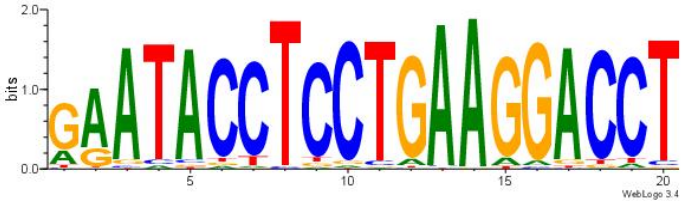

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118674

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

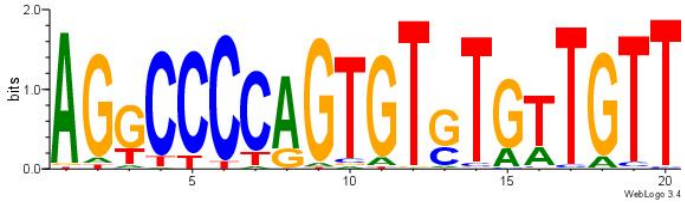

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

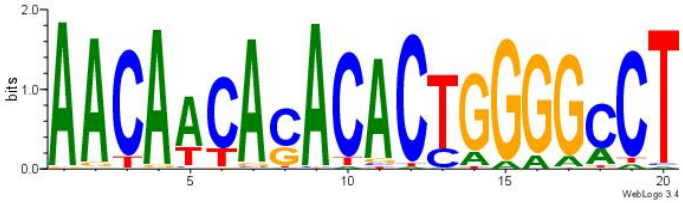

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118715

Alignment:
CGTCGCTCACGCTGGGAGCT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

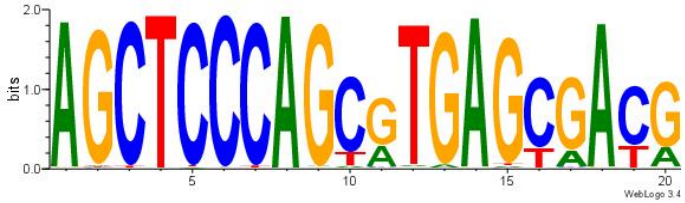

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

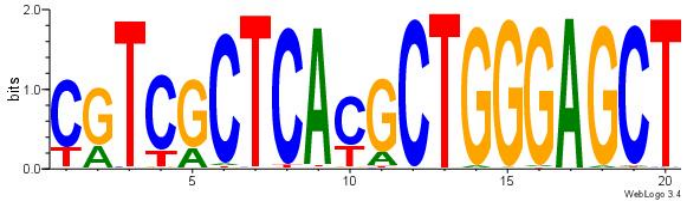

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.119633

Alignment:
HAGTGGKATTGCTGGATCAT
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

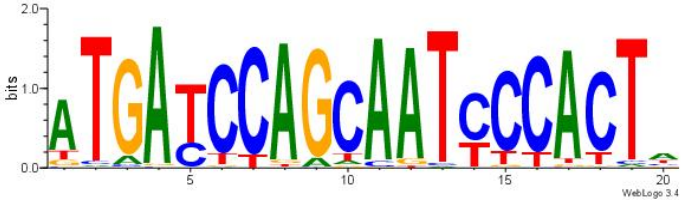

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

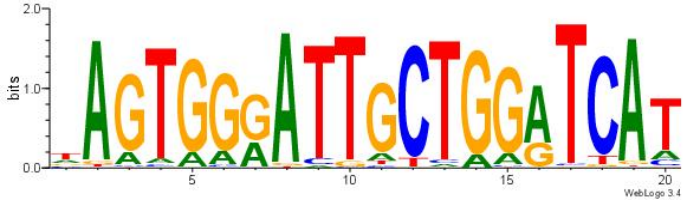

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.120626

Alignment:
AGGTTTGTTACATAGGTAWA
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

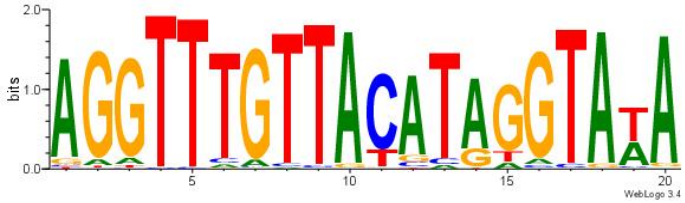

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

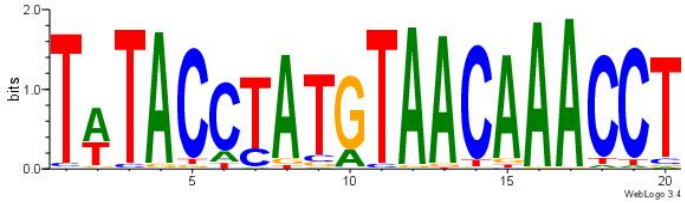

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121504

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

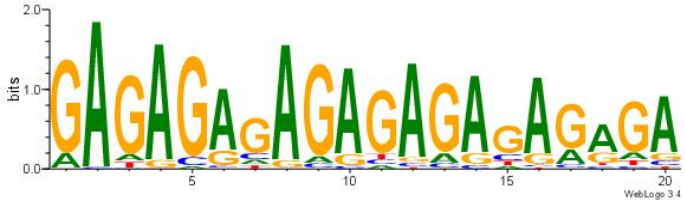

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

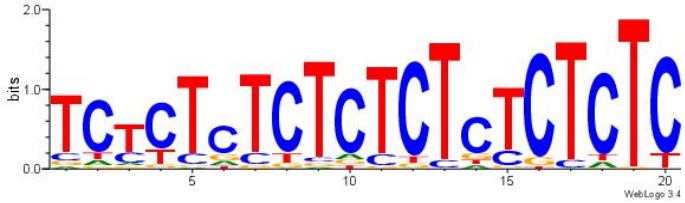

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123466

Alignment:

CATTCTGGGGTCTGGAGGAY

AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

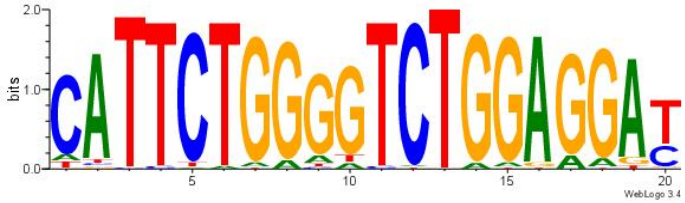

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

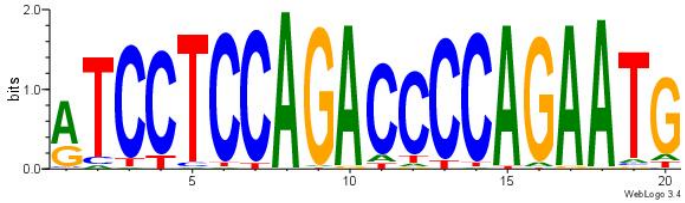

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.123487

Alignment:
ATGTGGAGGTGGAAGACAGT
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

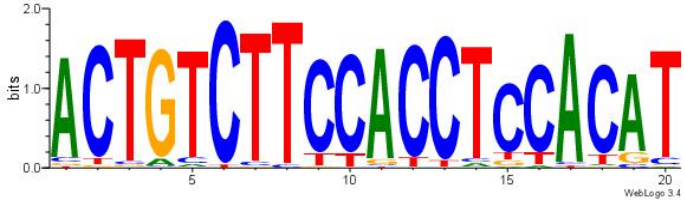

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

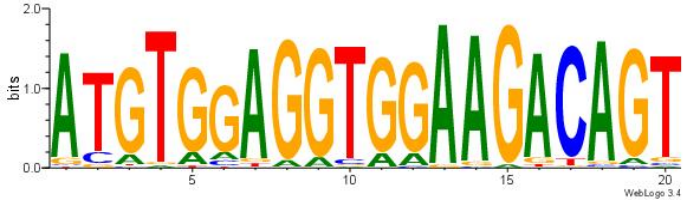

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.123539

Alignment:
AWTKKTGGTTKCCAGKGGCT
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

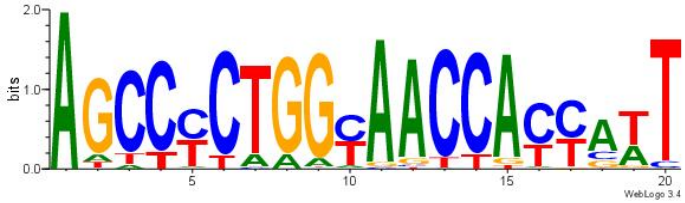

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

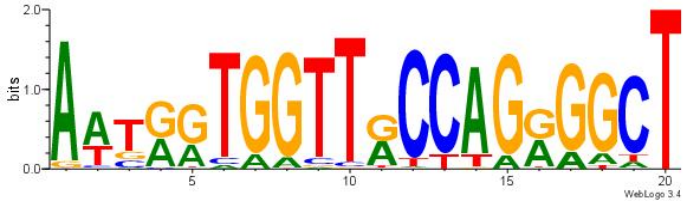

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123814

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

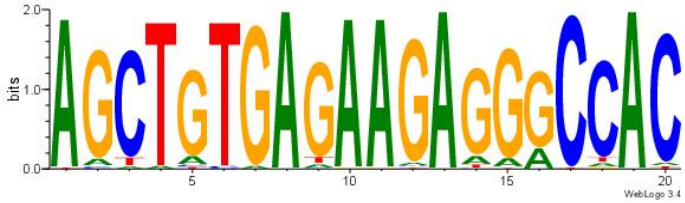

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

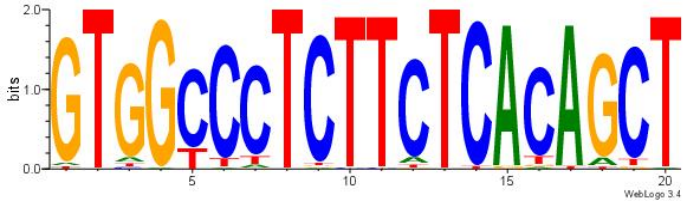

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124695

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

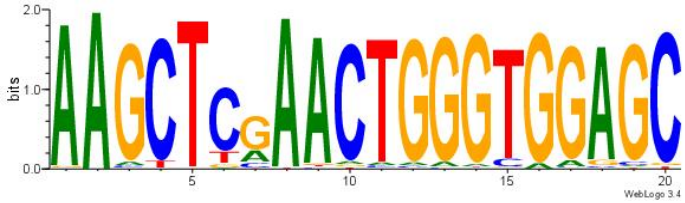

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

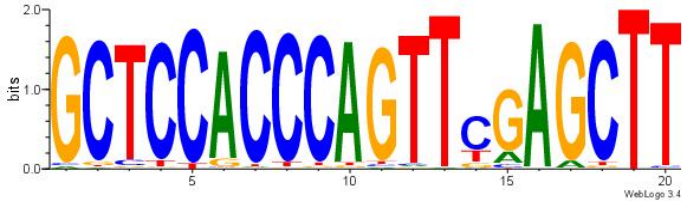

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.125118

Alignment:
ACCTGGAAAATCGGGTCACT
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

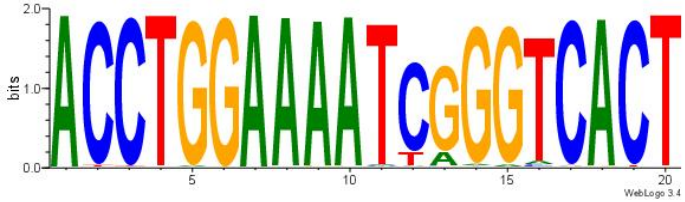

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

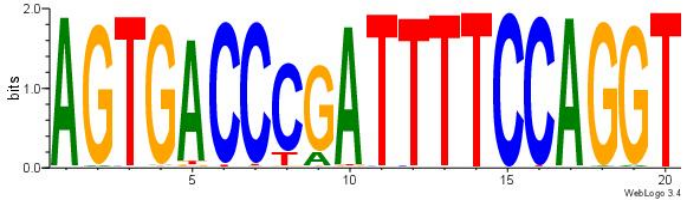

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.125156

Alignment:
GCACATGTAYCCYAGAACTT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

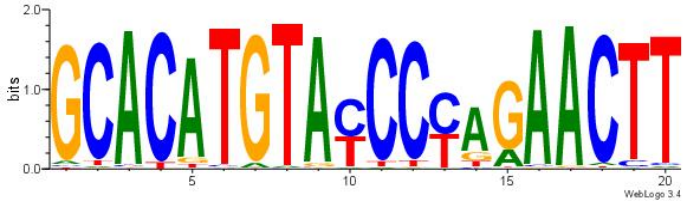

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

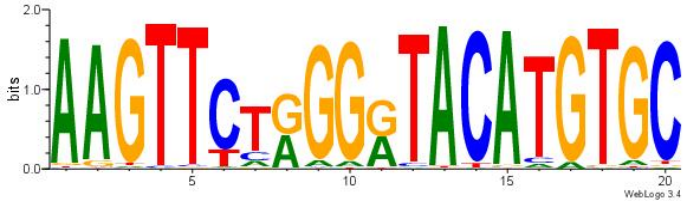

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126729

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

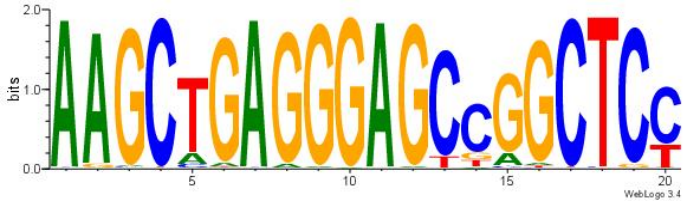

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

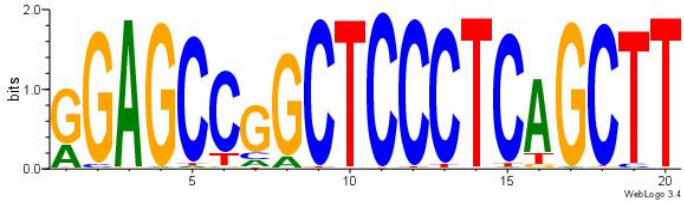

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126798

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

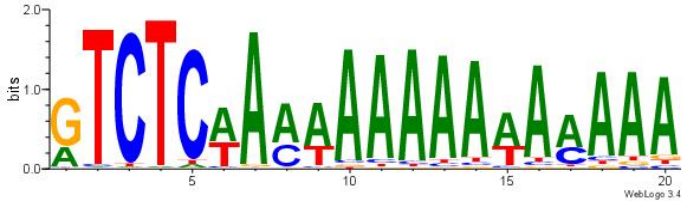

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

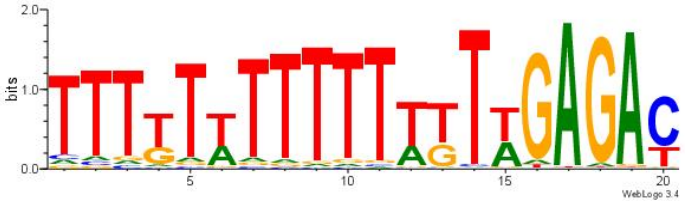

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.129751

Alignment:
ACTCCCTAGTGAGATGAACC
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

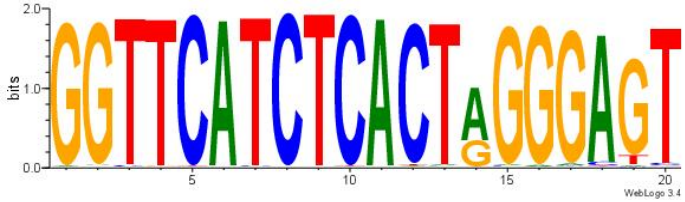

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

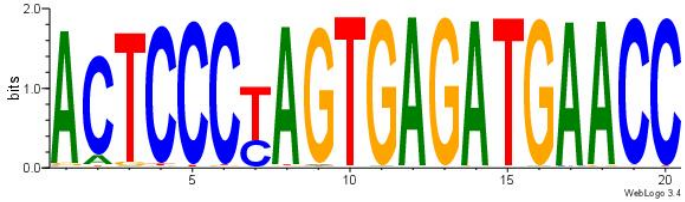

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.130061

Alignment:
GTAACACTCACCGCGARGGT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

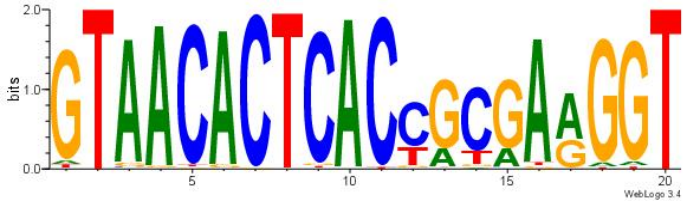

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

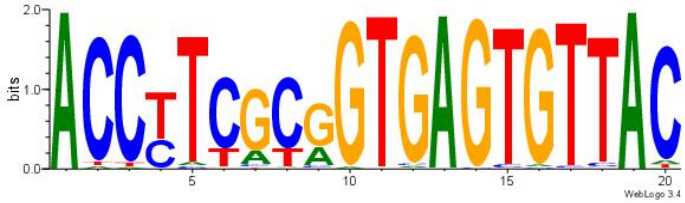

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130567

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

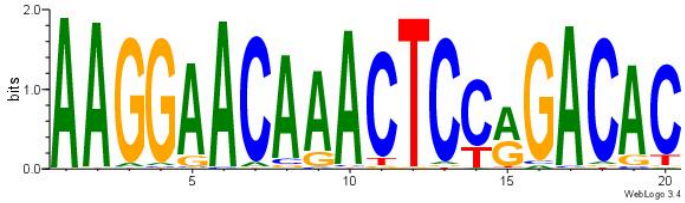

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

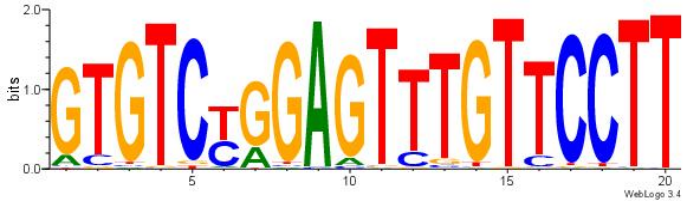

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132105

Alignment:

```
TTCAMTCATGATTTGGCTCT
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

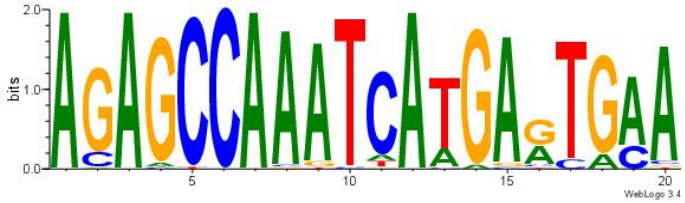

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

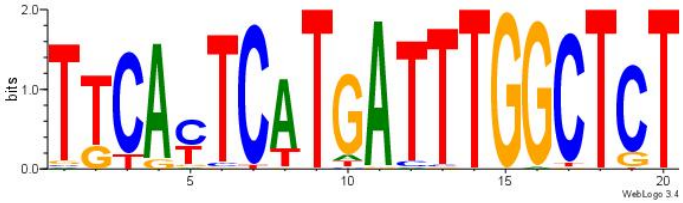

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.132181

Alignment:
AGCTCMKCCTCCTGTCAGAT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

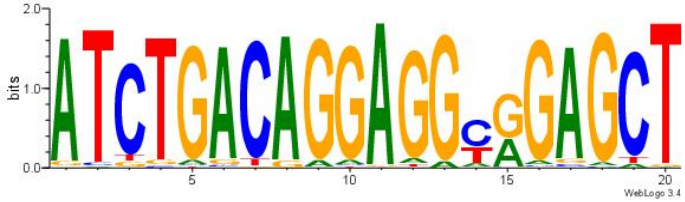

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

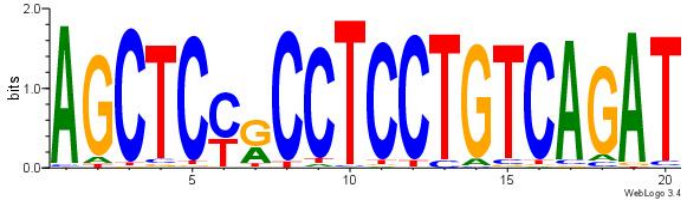

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.132875

Alignment:
ATAGGAATGCTTGTGATTTT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

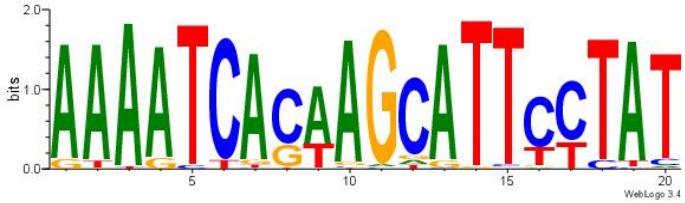

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

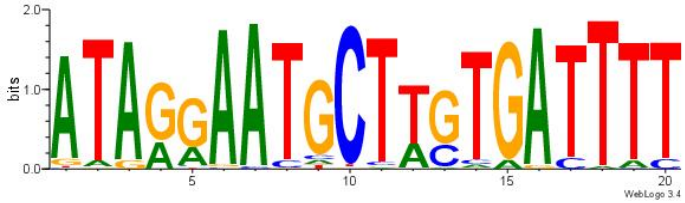

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133513

Alignment:

```
AAAATGTGGTAYATAYAYAC
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

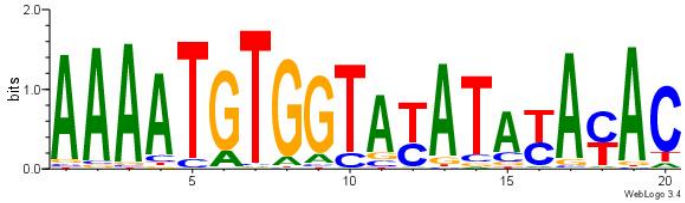

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

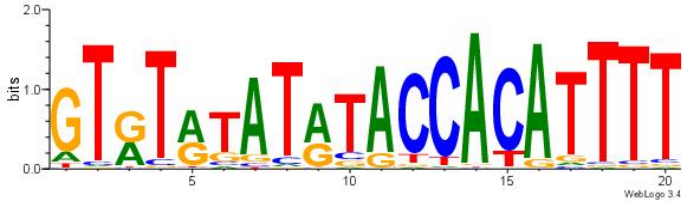

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13544

Alignment:
GAAHCAACCKAAKTGTCCAT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

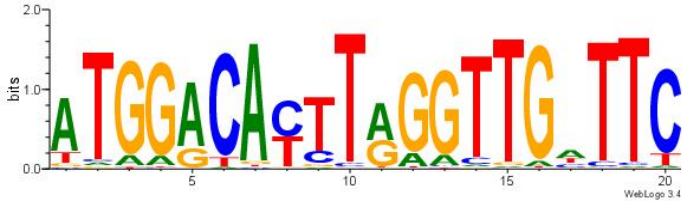

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

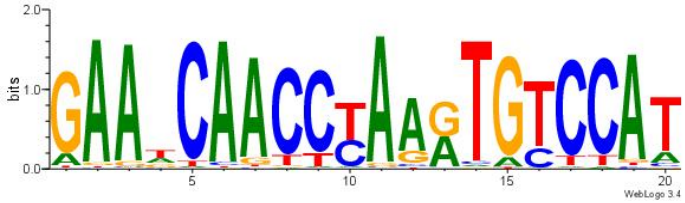

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.140531

Alignment:
CTGGGCRACAGAGYRAGACY
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

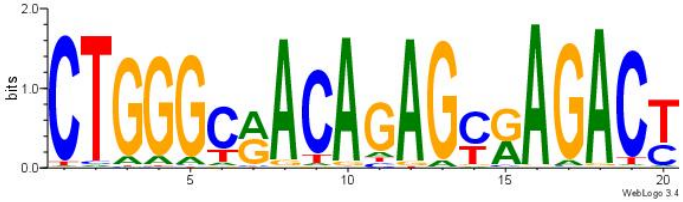

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

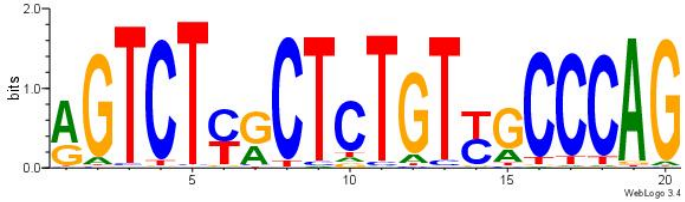

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140595

Alignment:
CACCAGGAGATTATATCCCR
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

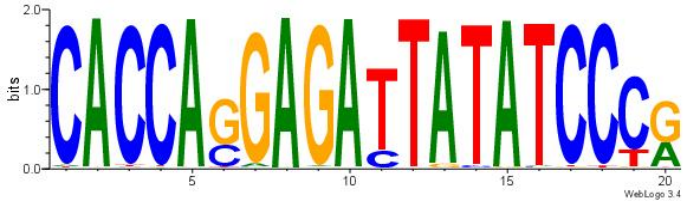

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

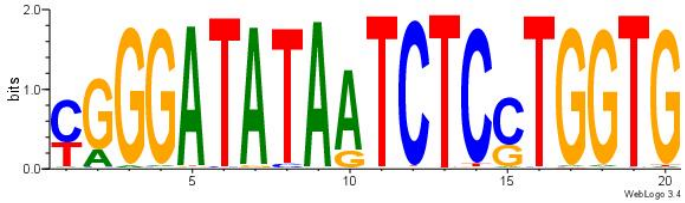

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141462

Alignment:

```
AGTAGGTGCTCARTAAATRB
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

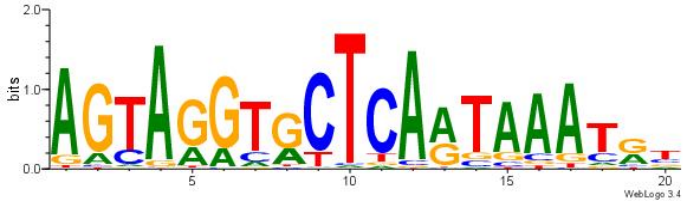

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

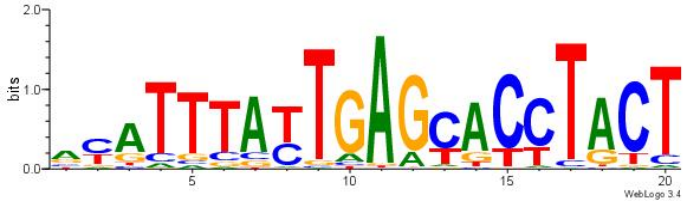

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142976

Alignment:

```
AGTGAGAACATRYRRTRTTT
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

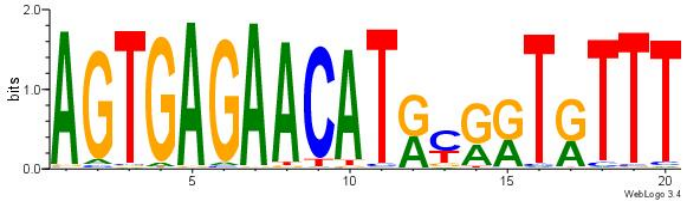

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

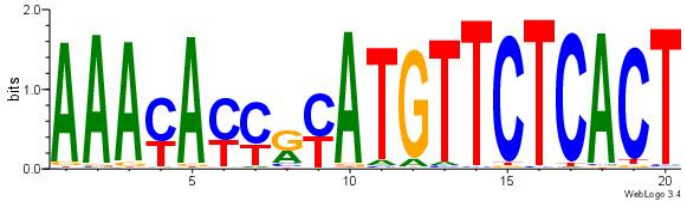

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.143689

Alignment:
GGGAGGTGTCTCCCAGTCAG
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

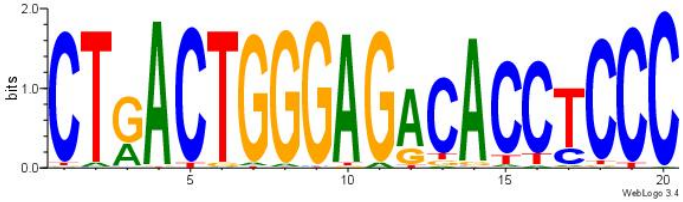

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

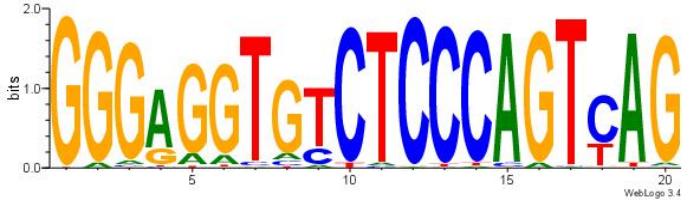

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143787

Alignment:
GCAAAKGACATGATYTCATT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

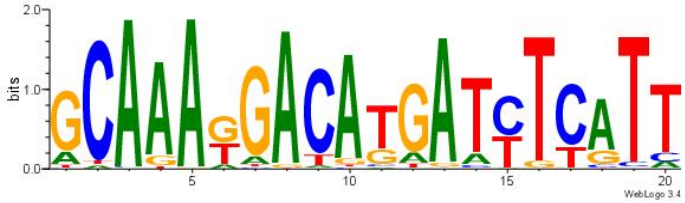

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

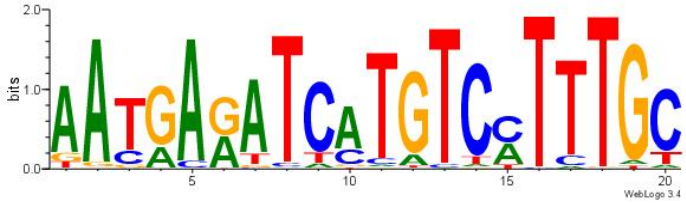

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143839

Alignment:

```
CAAGCCTSKGCAATGGCAGG
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

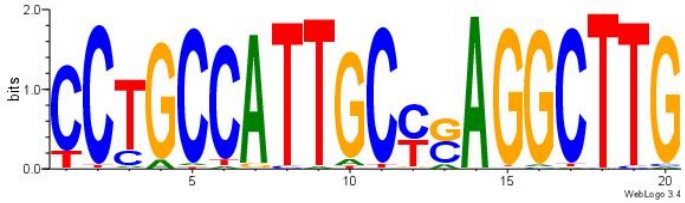

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

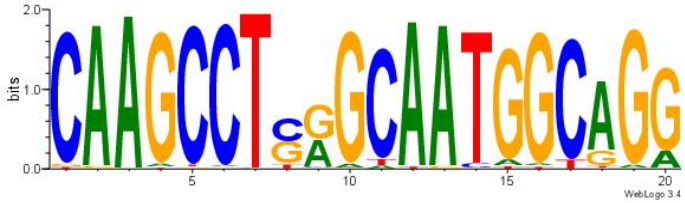

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144401

Alignment:
GTGCCAGGCACTGTKCTARG
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

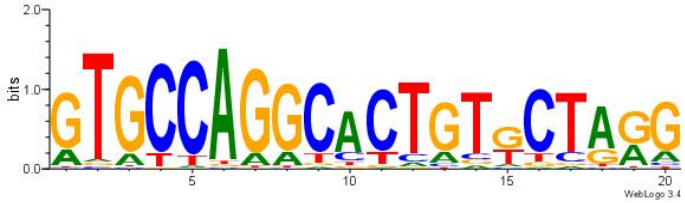

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

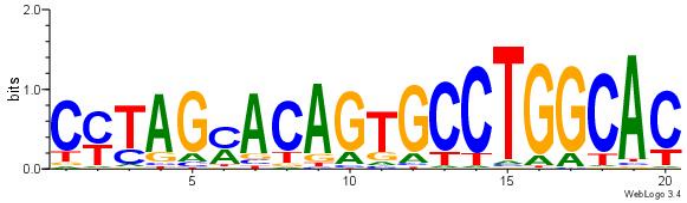

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.146852

Alignment:
ATGGCTGAATAKTATTCCAT
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

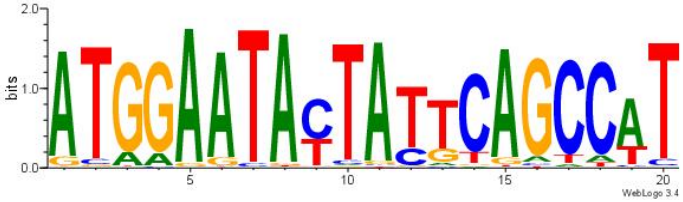

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

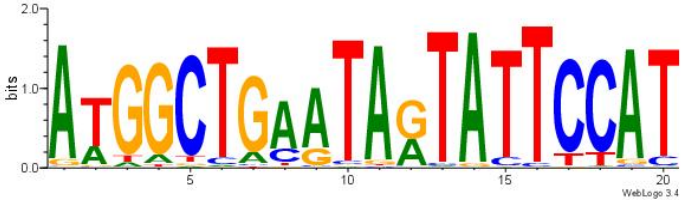

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.14762

Alignment:
GCGCTCKTCGGGGAGGCTCG
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

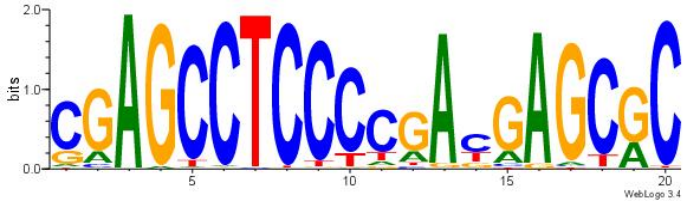

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

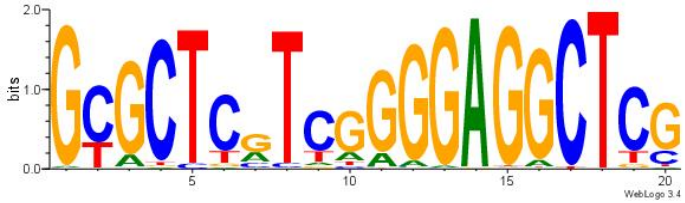

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14777

Alignment:

```
TCKMGCCACTGCACTCCAGC
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

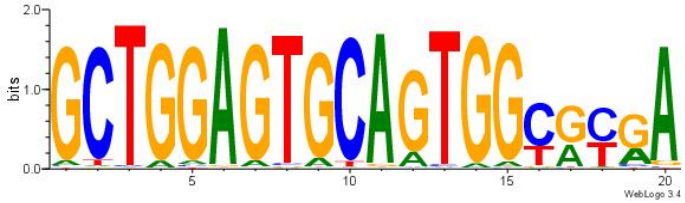

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

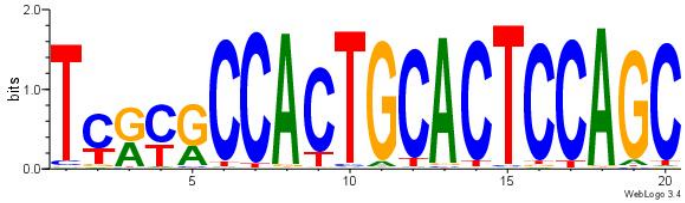

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147882

Alignment:
ACACATCACAAAGCAGTTTC
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

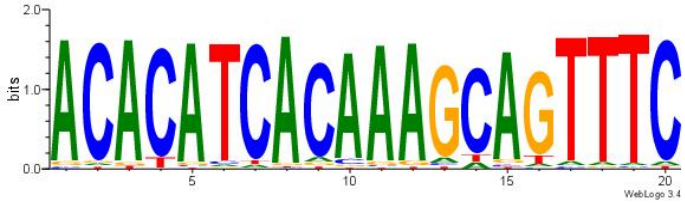

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

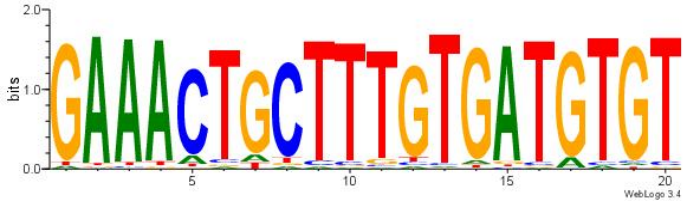

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.149429

Alignment:
TCCCTCCCGGACGGGGYGGC
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

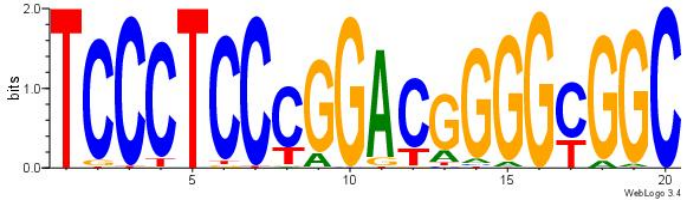

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

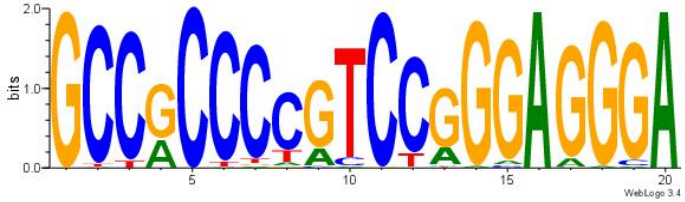

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.14958

Alignment:
GGGTCAGGGAGTTCCCTTTC
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

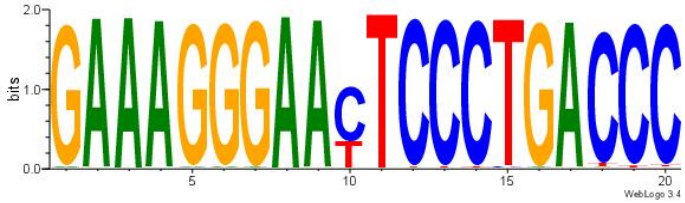

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

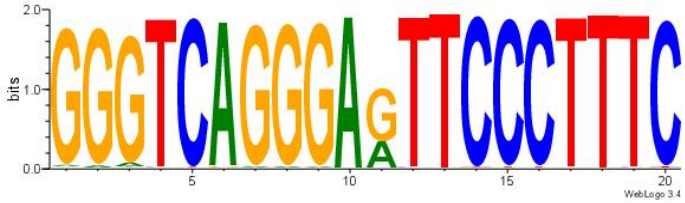

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150006

Alignment:

```
GCTGTGTGACCTTGGGCAAG
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

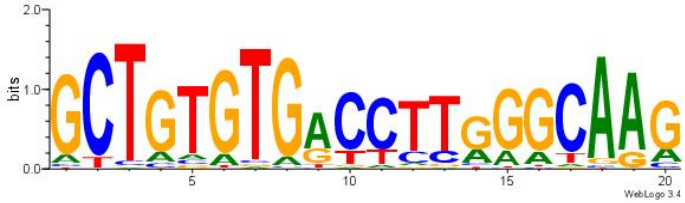

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

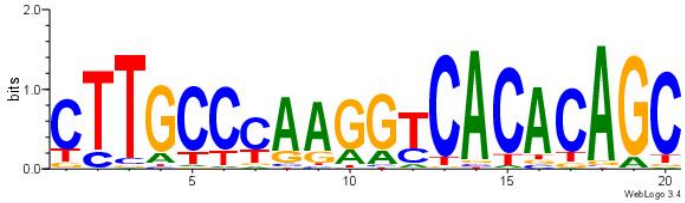

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150348

Alignment:

```
TACCTGAGACTGGGTAATTT
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

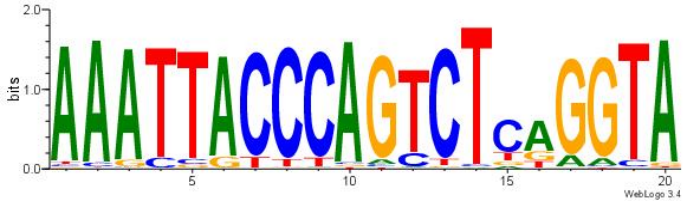

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

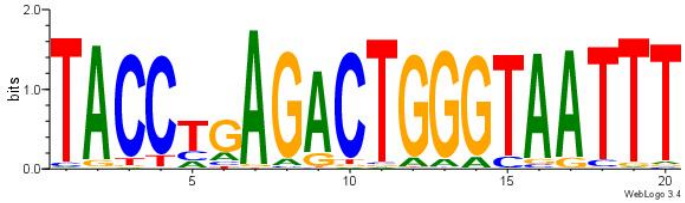

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.151229

Alignment:
CCCMKGGCACCCTCAGTCCT
KKCACCTTGATCTTGGACTT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

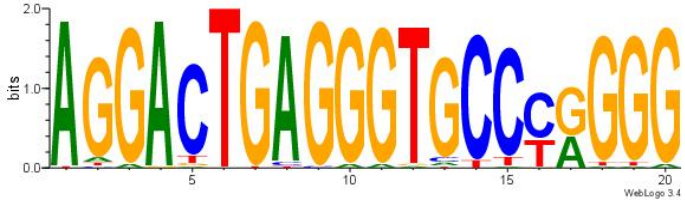

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

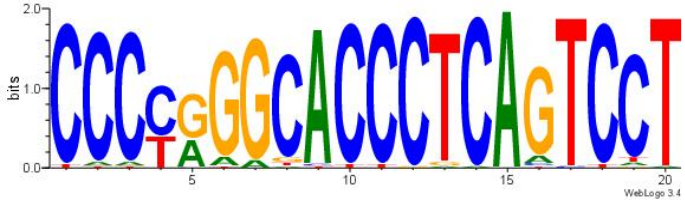

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151903

Alignment:
ATGTAACCAAAYACCACCTG
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

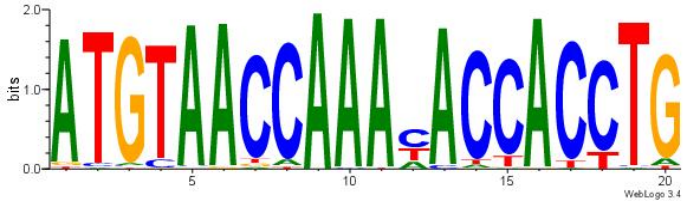

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

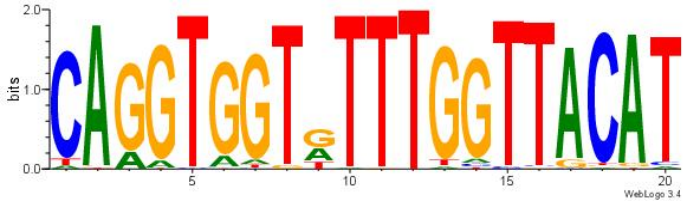

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153023

Alignment:

```
TYTGTCMTTTTGTGACTGGC
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

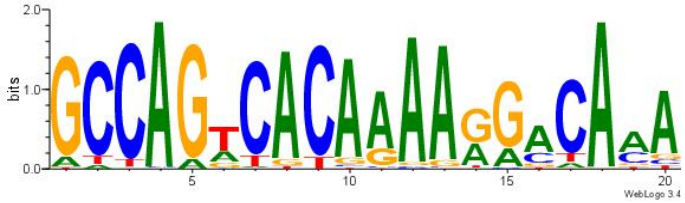

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

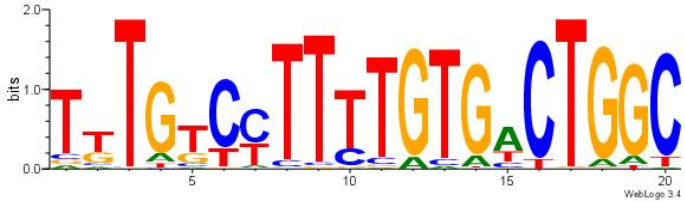

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153296

Alignment:

```
CAAGTTGACACATAAAATTA
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

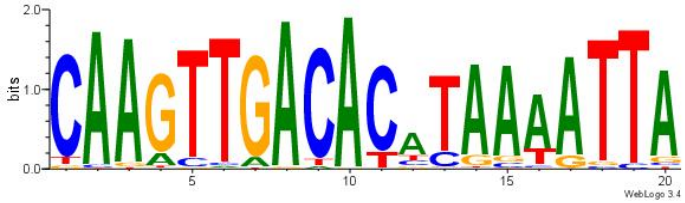

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

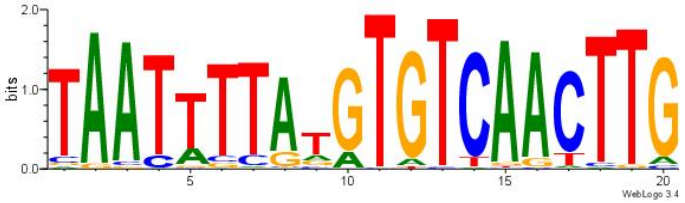

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.154593

Alignment:
AAGCAGGGCGAGGCATTGCC
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

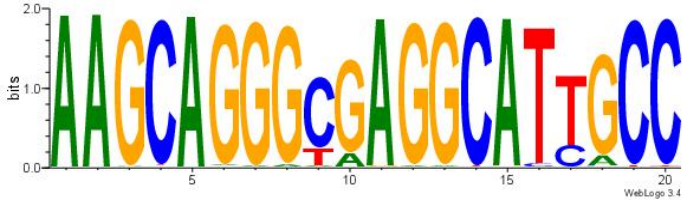

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

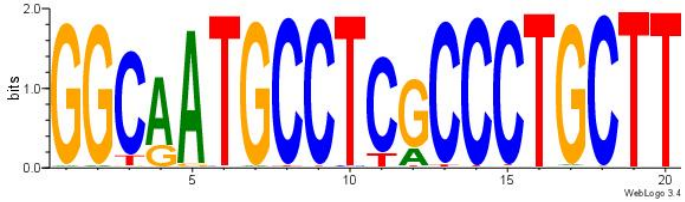

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155248

Alignment:
AAAGCTGGAGCTATTATCTA
AAGTCCAAGATCAAGGTGYY

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

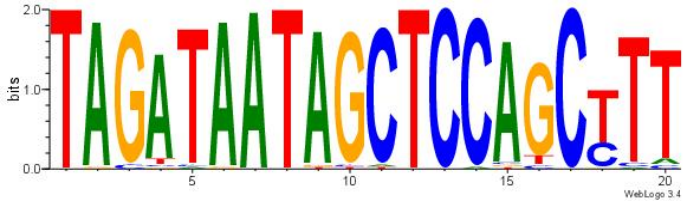

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

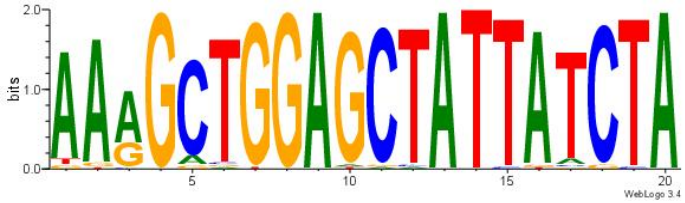

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156258

Alignment:

```
ATTGGTGTATTTACAATCCC
AAGTCCAAGATCAAGGTGYY
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

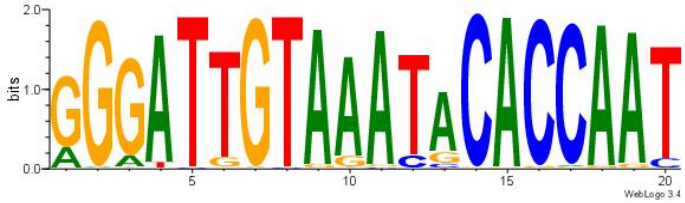

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156927

Alignment:

```
CTGGCCCTCAATGGTTAAAC
KKCACCTTGATCTTGGACTT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

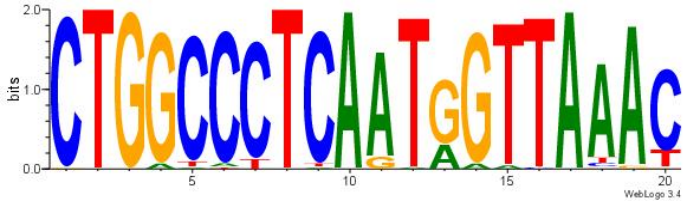

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

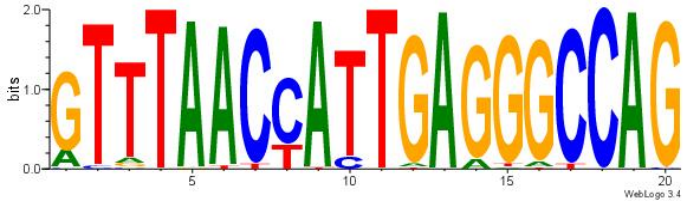

Dataset #: 1 Motif ID: 120 Motif name: Motif 120

Original motif Consensus sequence: CCATGTGSTCCC

Reverse complement motif Consensus sequence: GGGASCACATGG

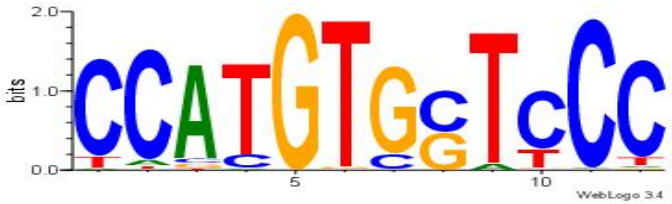

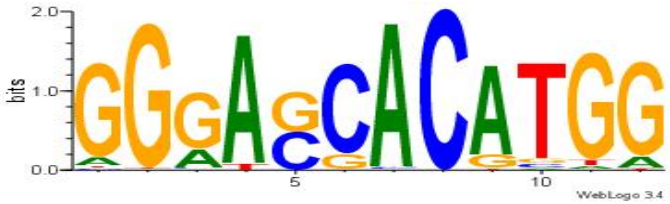

Best Matches for Motif ID 120 (Highest to Lowest)

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0458809

Alignment:

```
GAGAACACATGGACA
GGGASCACATGG---
```

Original motif Consensus sequence: GAGAACACATGGACA

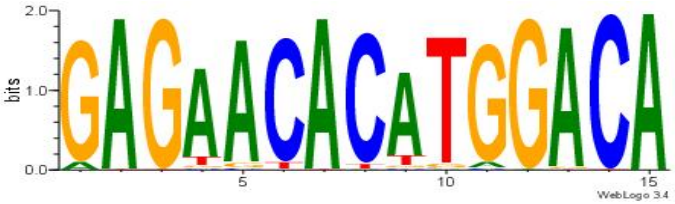

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

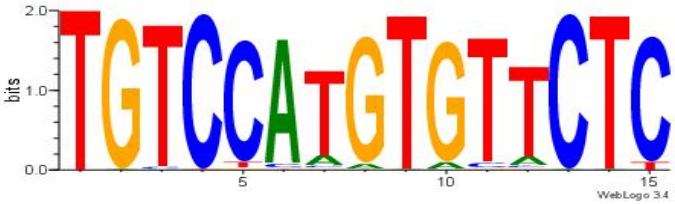

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0509107

Alignment:

```
TCAATGGGCTCCCAAATG
-CCATGTGSTCCC-----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

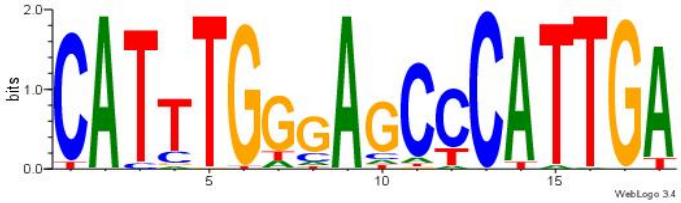

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

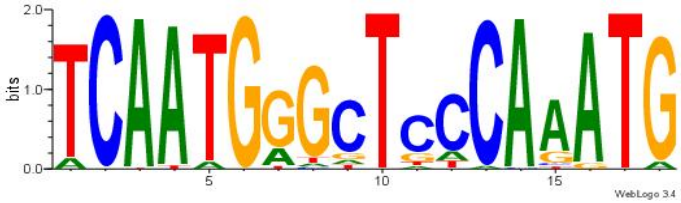

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0529225

Alignment:
HGCTCCTGTGSKCCC
---CCATGTGSTCCC

Original motif Consensus sequence: HGCTCCTGTGSKCCC

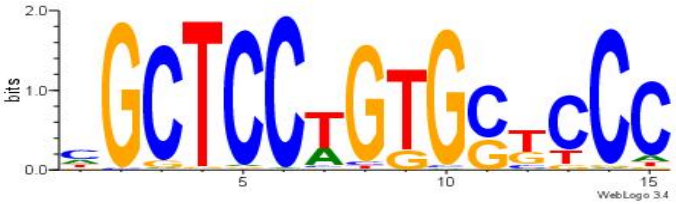

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

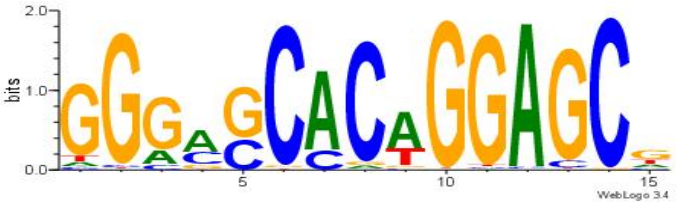

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.0661093

Alignment:
GCCAATTTCTCCCATTTGGA
-CCATGTGSTCCC-------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

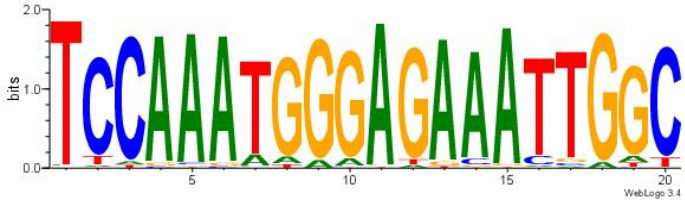

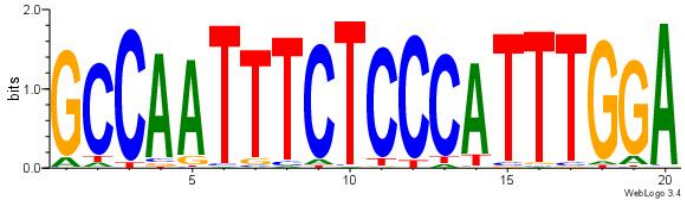

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0699992

Alignment:

```
GGRRMCAGATGT
GGGASCACATGG
```

Original motif Consensus sequence: ACATCTGYMMCC

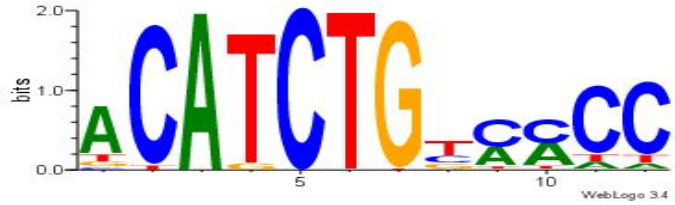

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	63

Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0736558

Alignment:

```
AAAMAMMKMATGTTCTCACT
-CCATGTGSTCCC-------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

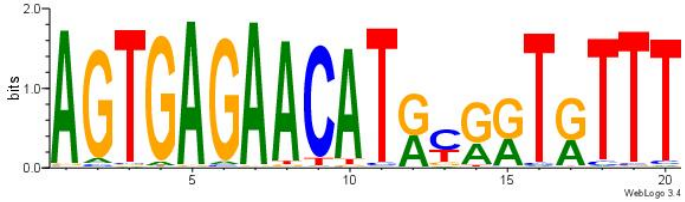

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

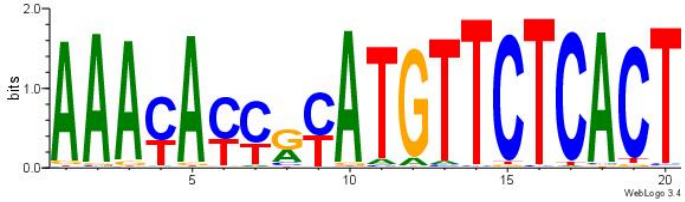

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0738665

Alignment:
GGATCCACTGGGTGAAGCCA
--------GGGASCACATGG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

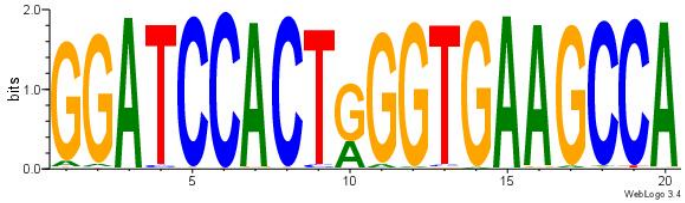

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

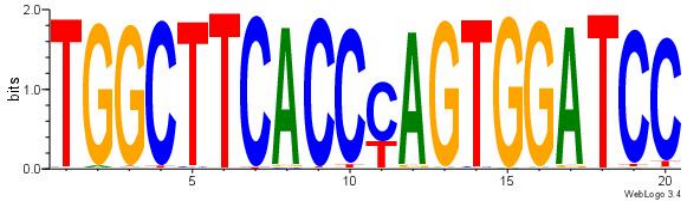

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0794475

Alignment:
GGAGGATCACKTGAG
--GGGASCACATGG-

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

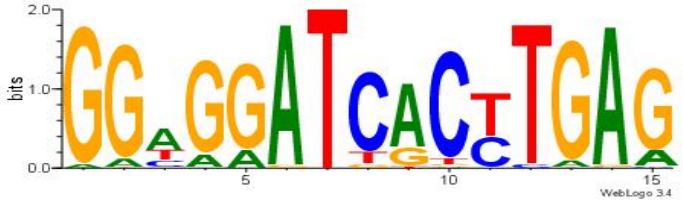

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0810979

Alignment:

```
ACTCAGCCCRCCTGCACCC
-------CCATGTGSTCCC
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

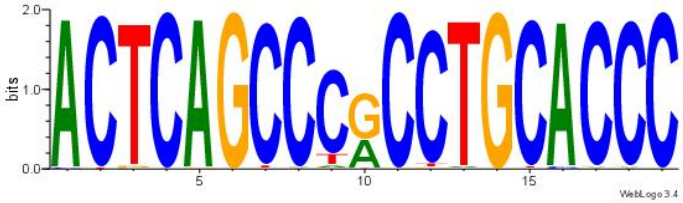

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

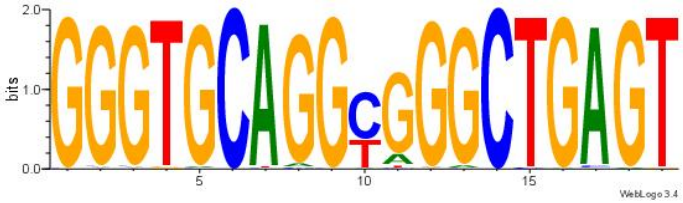

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.08393

Alignment:

```
GAATCCTGGGACAGCCTGT
-------GGGASCACATGG
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

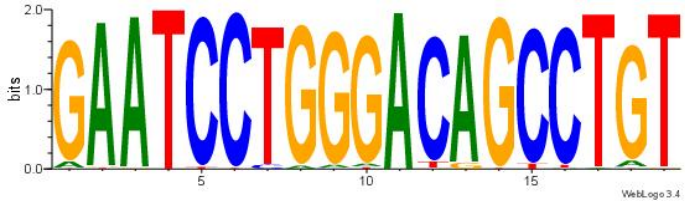

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

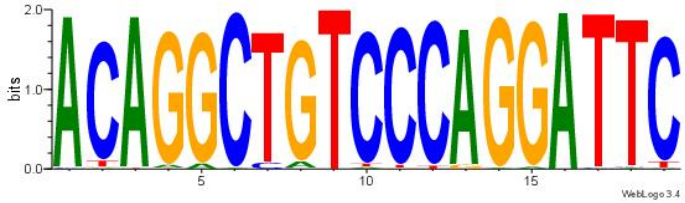

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0840238

Alignment:
GTGTCCCCTTCCTCCC
----CCATGTGSTCCC

Original motif Consensus sequence: GGGAGGAAGGGGACAC

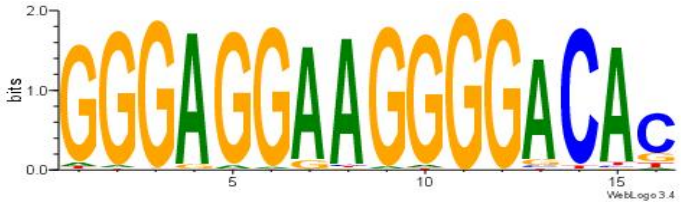

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

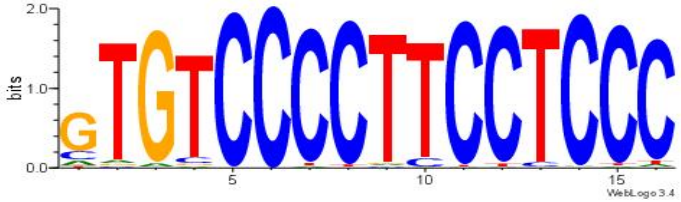

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0859736

Alignment:
CAACATGGATGRARCTGGAG
--GGGASCACATGG------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

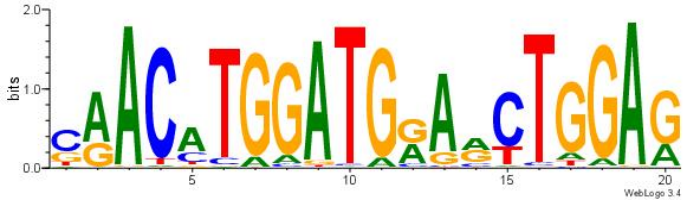

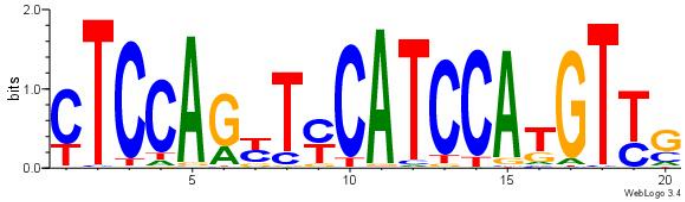

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0859946

Alignment:

```
CCCACGCCCACCCGGAACT
------CCATGTGSTCCC-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

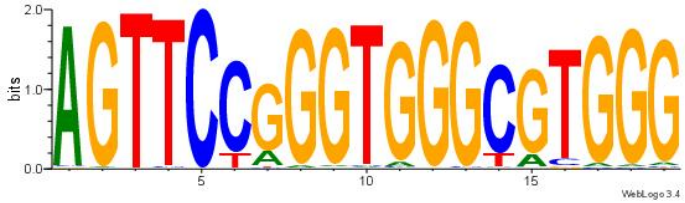

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

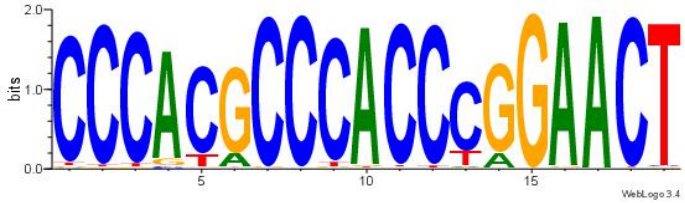

Dataset #:	1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0875103

Alignment:

```
ATACAATGGGGGTACAGRC
-------GGGASCACATGG
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

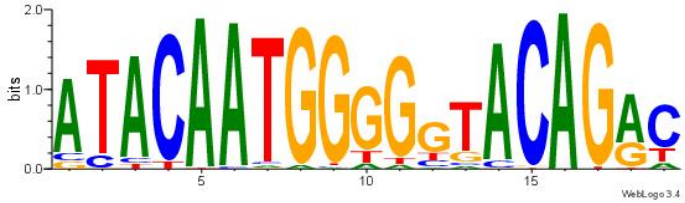

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

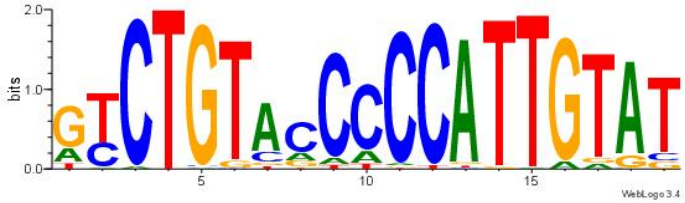

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.0879721

Alignment:
AAGTTCTKGGKTACATGTGC
------GGGASCACATGG--

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

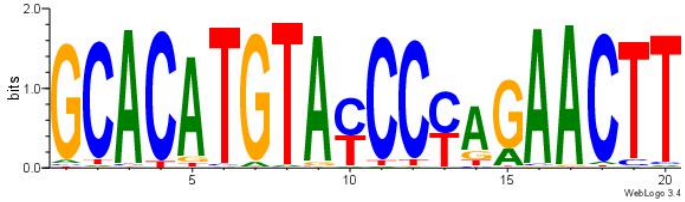

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

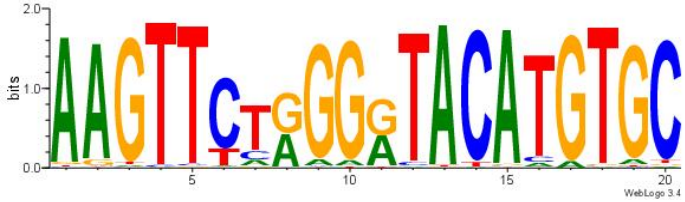

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0882212

Alignment:
CAAGCGCCAGCTCATGTC
-----GGGASCACATGG-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence:
CAAGCGCCAGCTCATGTC

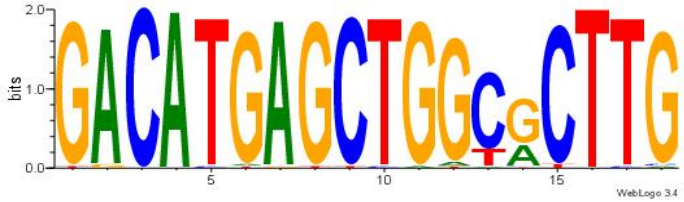

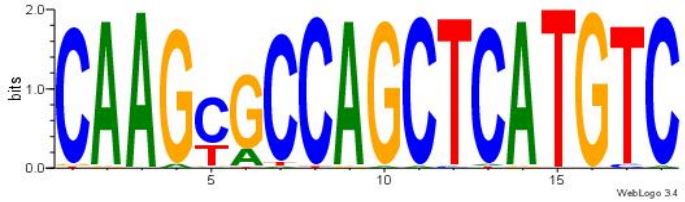

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0882488

Alignment:

```
AGGACTGAGGGTGCCYRGGG
--------GGGASCACATGG
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

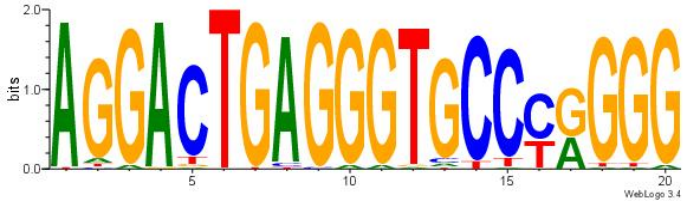

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

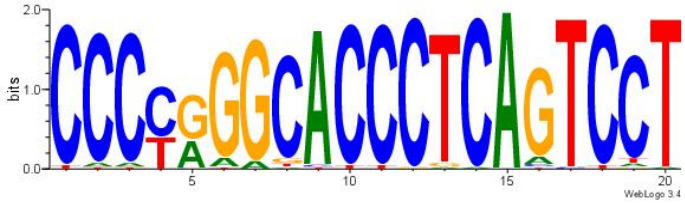

Dataset #:	1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0889312

Alignment:

```
GCTGGCCCKGGTGCTAAGC
-CCATGTGSTCCC------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

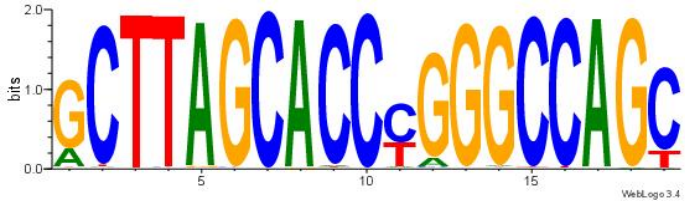

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

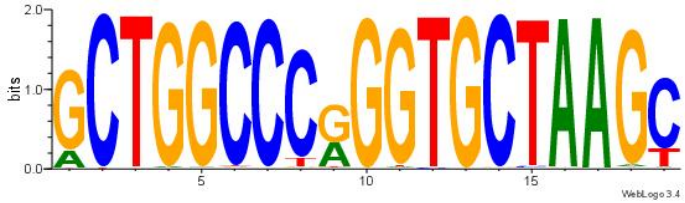

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0894196

Alignment:
GTGGCCCTCTTCTCACAGCT
----CCATGTGSTCCC----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

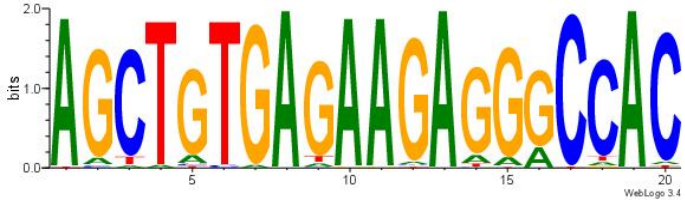

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

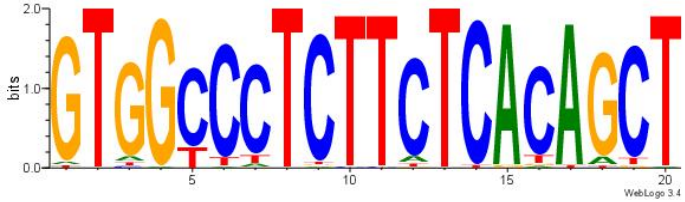

Dataset #: 1
Motif ID: 206
Motif name: Motif 206
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0912562

Alignment:
GGRCKCACWGGAGC
GGGASCACATGG--

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

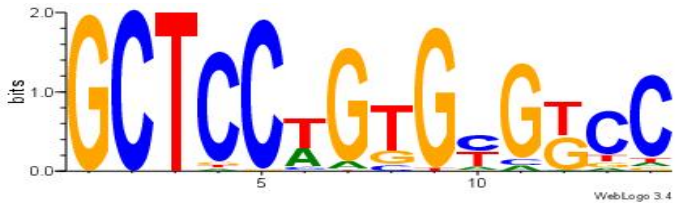

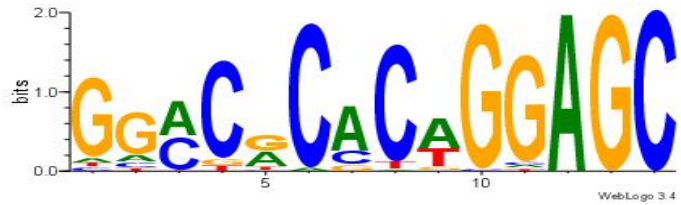

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0914116

Alignment:

```
CTCATTTAATCCTCACAAC
-CCATGTGSTCCC------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

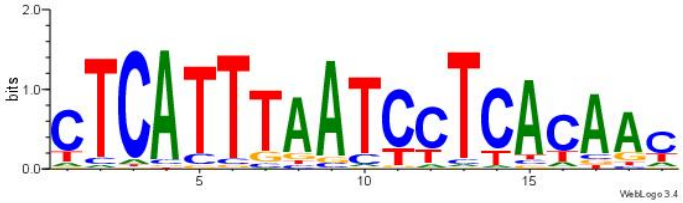

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

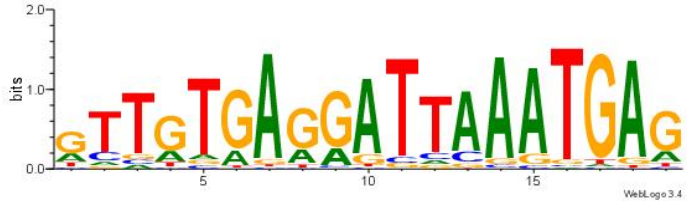

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0940258

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-CCATGTGSTCCC-------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

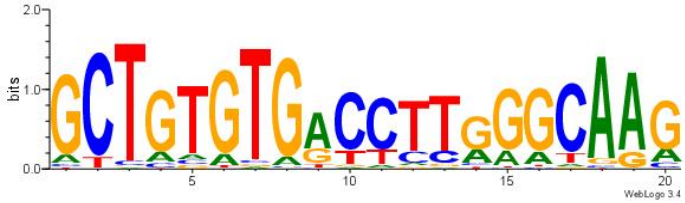

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

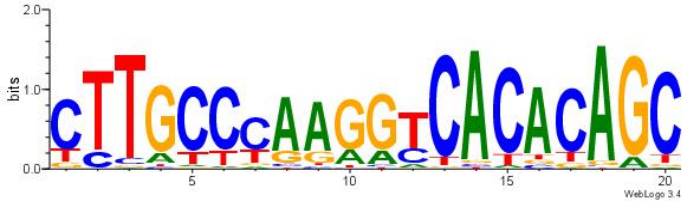

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0941094

Alignment:
ACGCCCACGGAGTCTC
----CCATGTGSTCCC

Original motif Consensus sequence: ACGCCCACGGAGTCTC

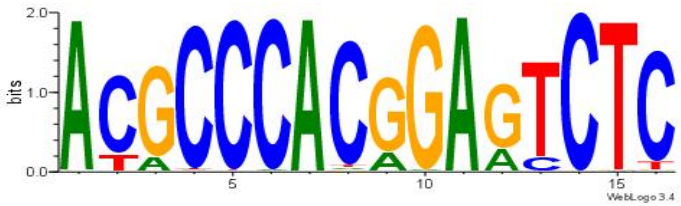

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

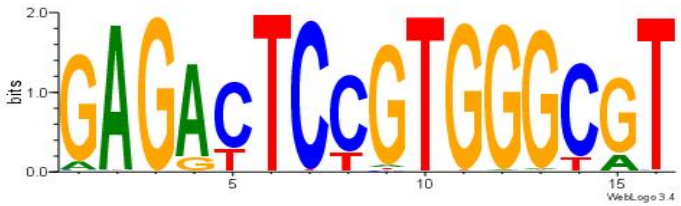

Dataset #: 1
Motif ID: 279
Motif name: Motif 279
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.094932

Alignment:
MGTGTGATGTCTCCCCC
----CCATGTGSTCCC-

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

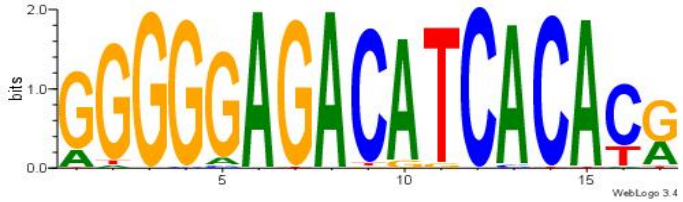

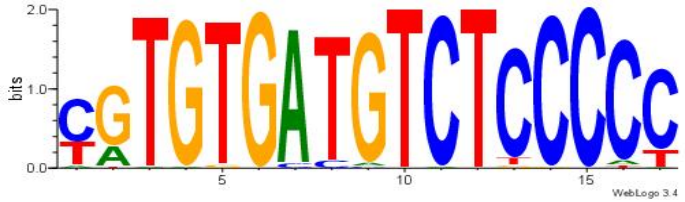

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0949692

Alignment:

```
GCGMGCGGGAACCGGGGCT
----GGGASCACATGG---
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

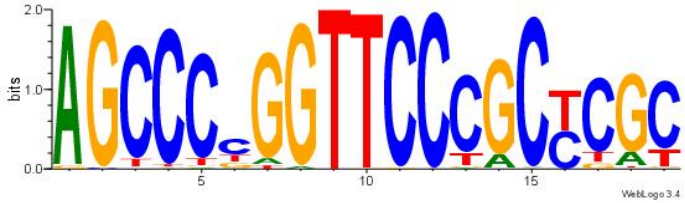

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

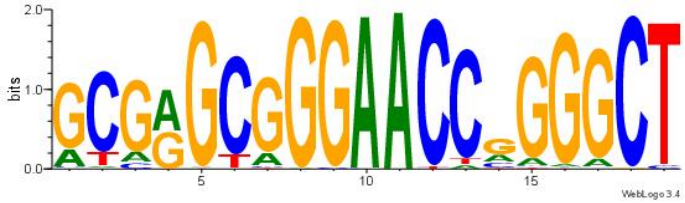

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0956642

Alignment:

```
GTKTMTATMTACCACATTTT
-------GGGASCACATGG-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

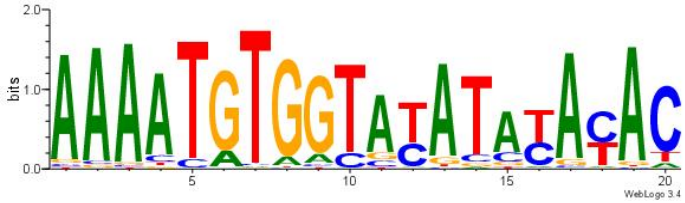

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

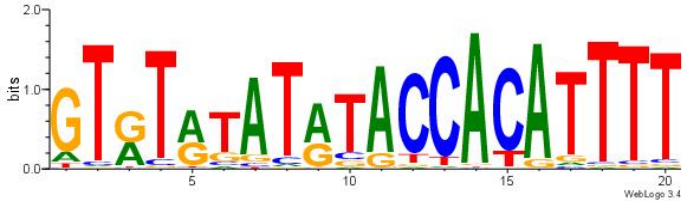

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0961305

Alignment:
GGTGCCAGCTGT
GGGASCACATGG

Original motif Consensus sequence: ACAGCTGGCACC

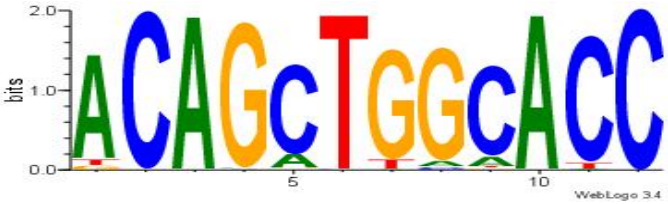

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

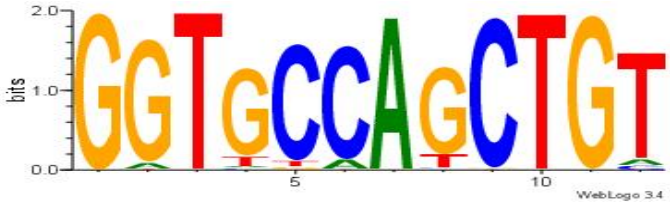

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0965208

Alignment:
VMATTTAKTGAGCACCTACT
-------GGGASCACATGG-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

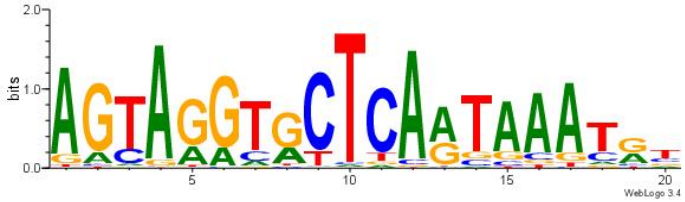

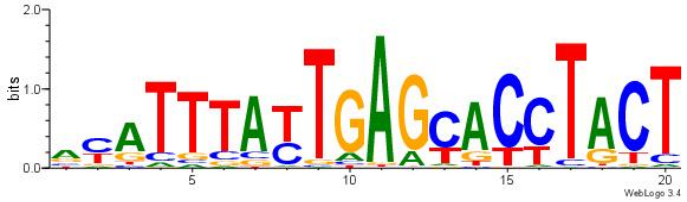

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.097204

Alignment:

```
CTGGGCRACAGAGYRAGACY
-------GGGASCACATGG-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

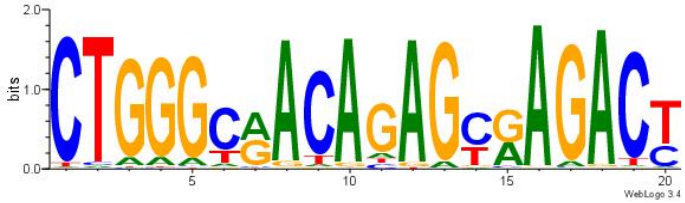

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

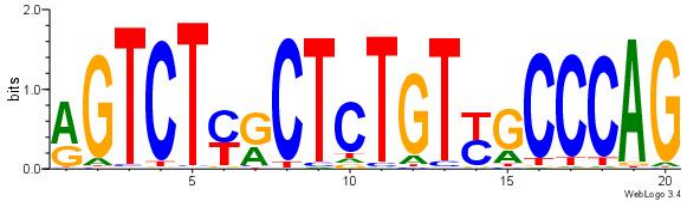

Dataset #:	1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.097597

Alignment:

```
BCVTCTGTCACCCC
--CCATGTGSTCCC
```

Original motif Consensus sequence: GGGGTGACAGABGB

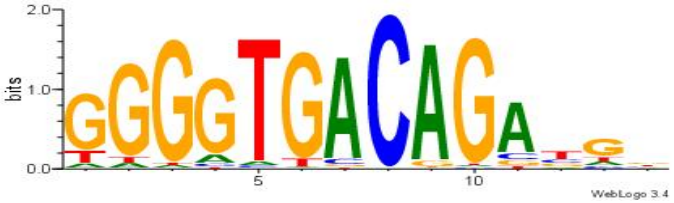

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

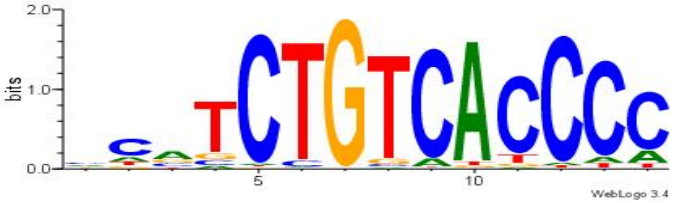

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0981487

Alignment:
CTTGGGTGGTCGATGGGAC
----GGGASCACATGG---

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

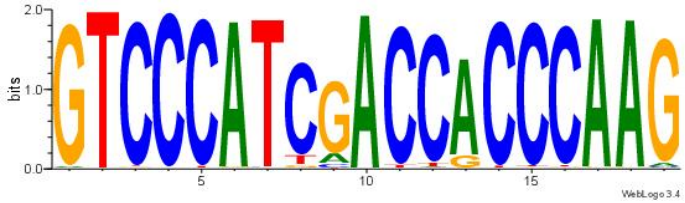

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

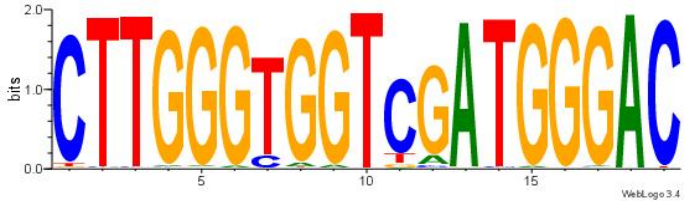

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0981803

Alignment:
GAAAGGGAACTCCCTGACCC
---GGGASCACATGG-----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

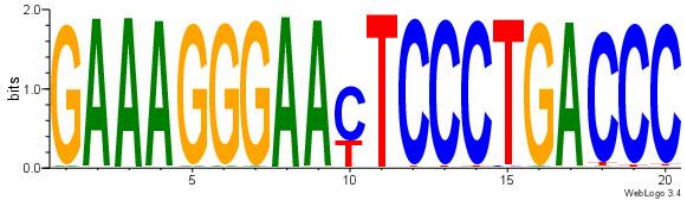

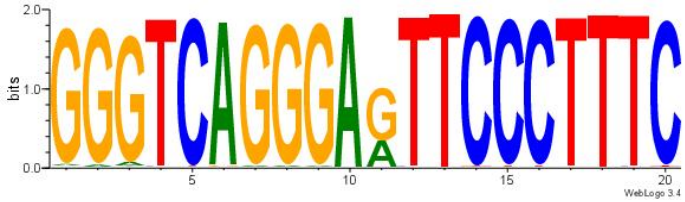

Dataset #:	1
Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0990286

Alignment:

```
CGGTACCTCAGAT
-GGGASCACATGG
```

Original motif Consensus sequence: ATCTGAGGTACCG

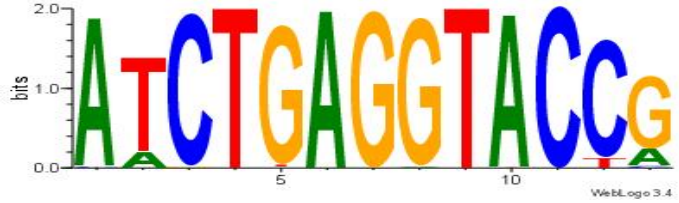

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

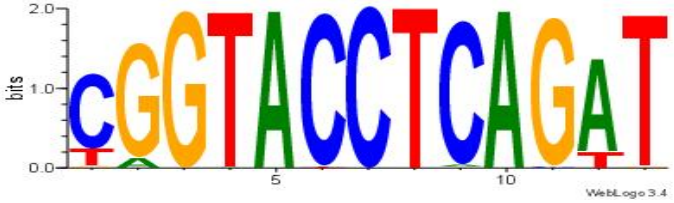

Dataset #:	1
Motif ID:	263

Motif name:	Motif 263
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0992416

Alignment:

GGCAGAGCTGGG

GGGASCACATGG

Original motif Consensus sequence: CCCAGCTCTGCC

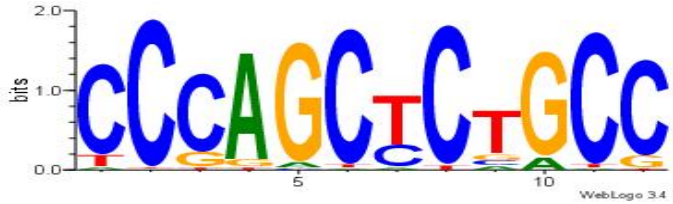

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0998233

Alignment:
GCAAAKGACATGATYTCATT
-------GGGASCACATGG-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

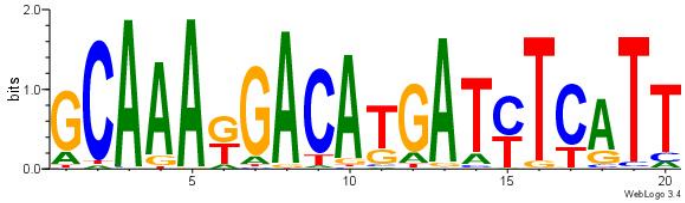

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

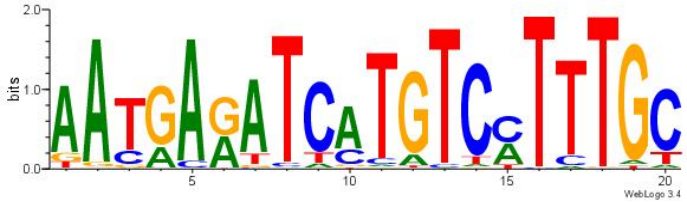

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.100128

Alignment:
GGGCTCCCACAGTGCAGCGG
GGGASCACATGG--------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

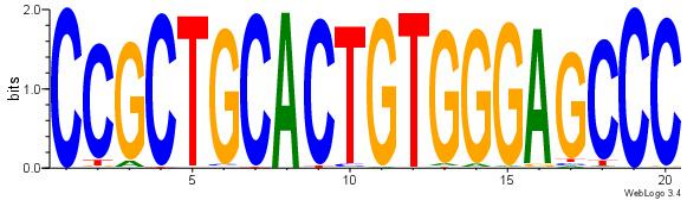

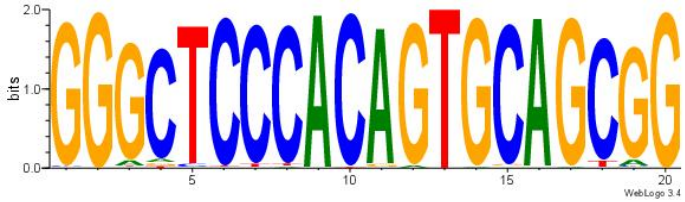

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.100133

Alignment:

```
CMTAGYACAGTGCCTGGCAC
GGGASCACATGG--------
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

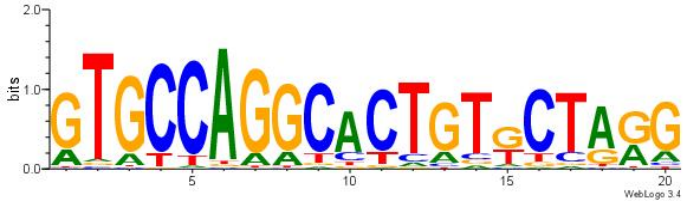

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

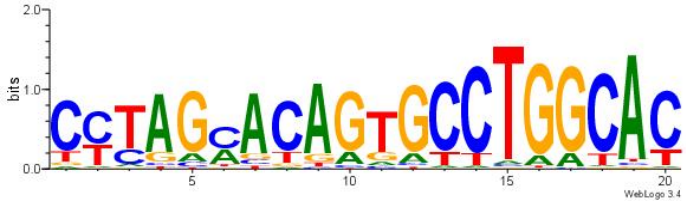

Dataset #:	1

Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.10024

Alignment:

```
TAMGACCTCAGGTCCTCAG
-------CCATGTGSTCCC
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

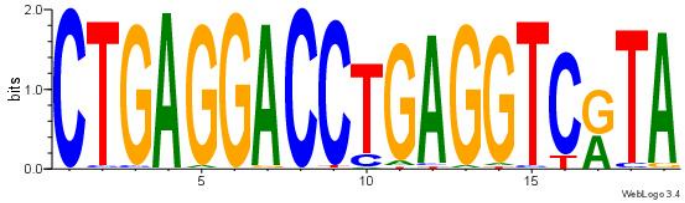

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

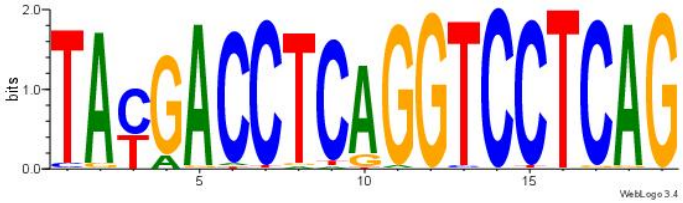

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.100778

Alignment:
CCCATGCAAGTCYRAAATCC
-CCATGTGSTCCC-------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

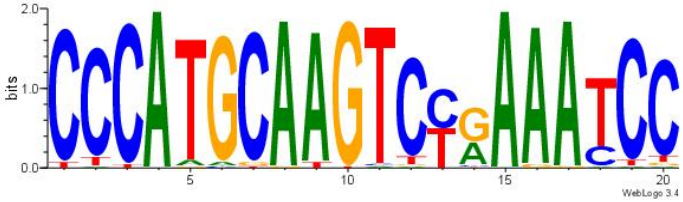

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

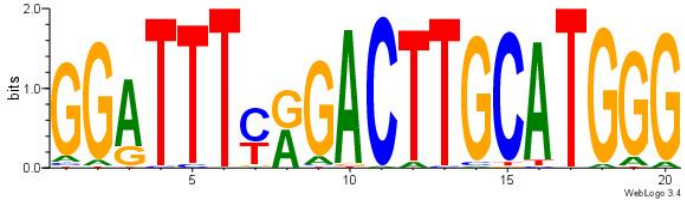

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.101344

Alignment:
CCTTGGCCAGCCCAGAAAG
CCATGTGSTCCC-------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

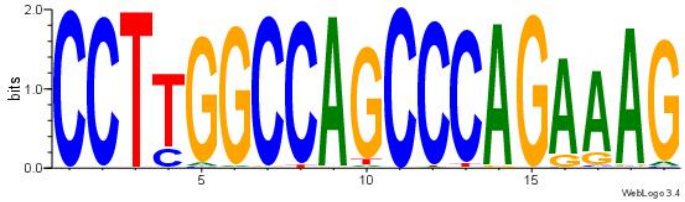

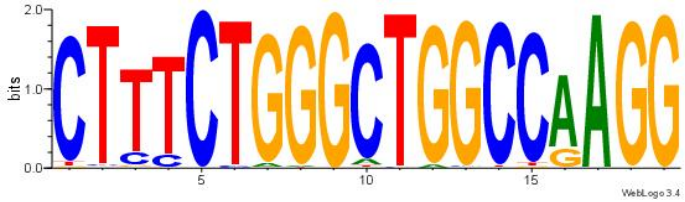

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.101709

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
---GGGASCACATGG-----
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

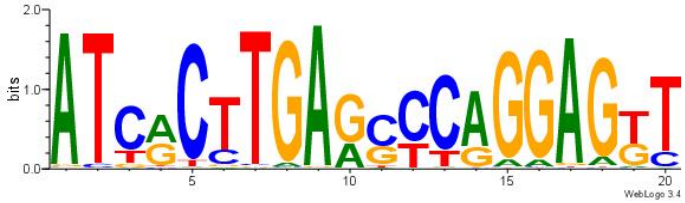

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

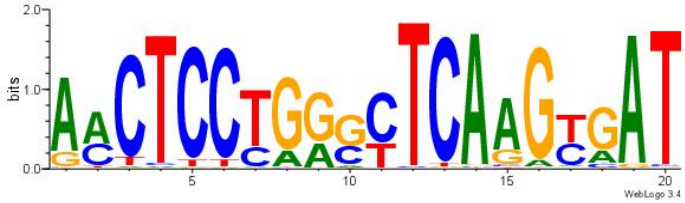

Dataset #:	1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.102357

Alignment:

```
GGCACTCCCTAGTG
GGGASCACATGG--
```

Original motif Consensus sequence: CACTAGGGAGTGCC

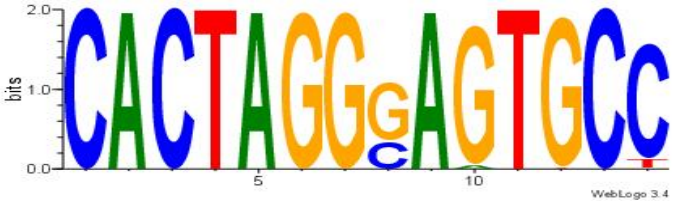

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

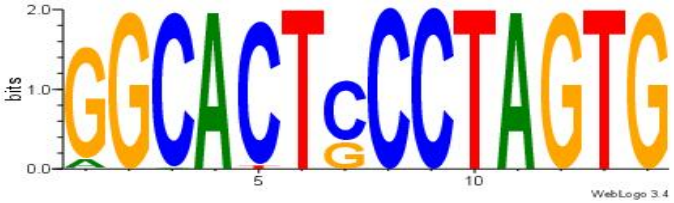

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102417

Alignment:
AGGAGCCCCTCHGCCCR
-----GGGASCACATGG

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

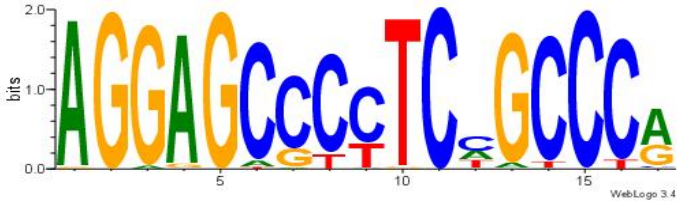

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.102655

Alignment:
GCCGGGRAGAGGCGCTCCT
CCATGTGSTCCC-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

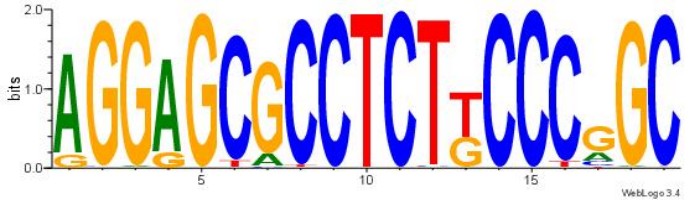

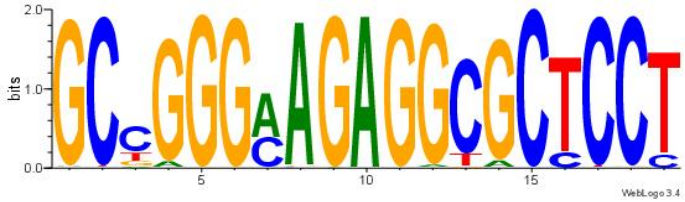

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.102778

Alignment:

```
GGCACTGCTGGGGGACCCAG
GGGASCACATGG--------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

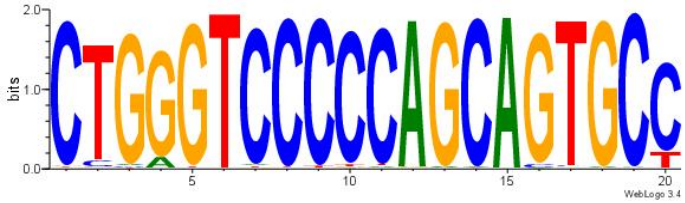

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

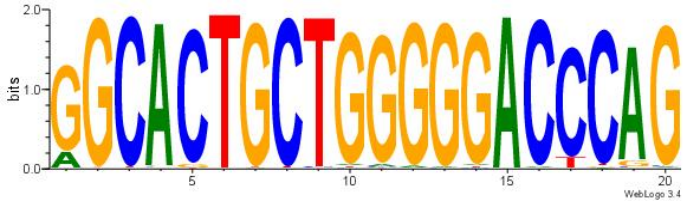

Dataset #: 1

Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102869

Alignment:

```
GCAGAGGCGCTCCT
--CCATGTGSTCCC
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

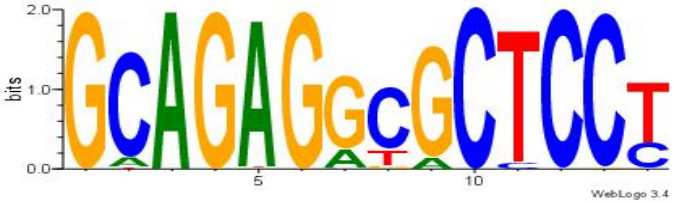

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

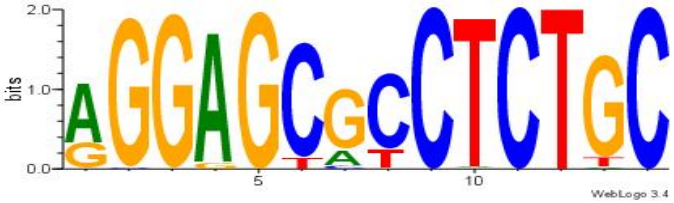

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.102925

Alignment:
CCGTGCGCGAGCCG
CCATGTGSTCCC--

Original motif Consensus sequence: CCGTGCGCGAGCCG

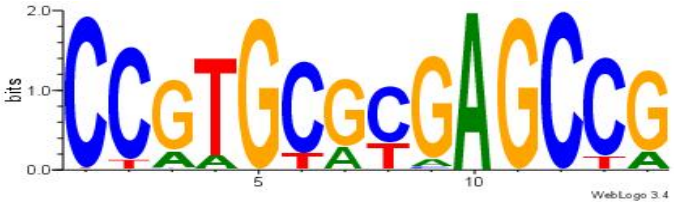

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

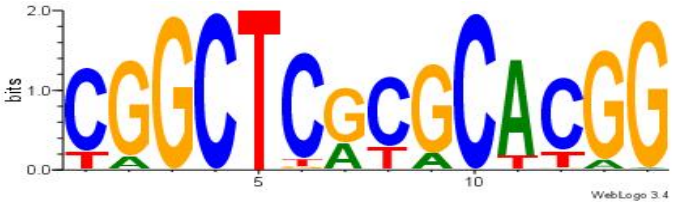

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.102973

Alignment:
CGGCGCTGMGCTCGATTTCT
-----CCATGTGSTCCC---

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

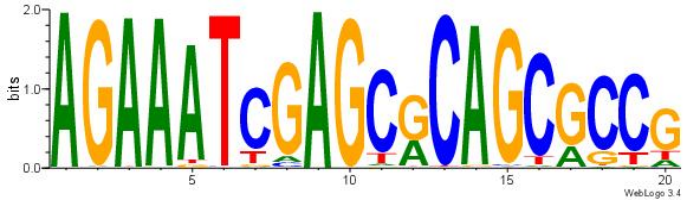

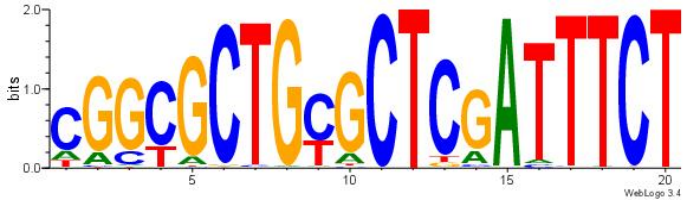

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.103423

Alignment:

```
AATGAGTTAAGACTTTG
-----GGGASCACATGG
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

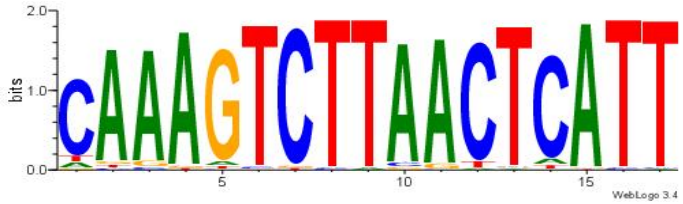

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.103546

Alignment:

```
CCACCACAGCTCAAGGAGGC
----GGGASCACATGG----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

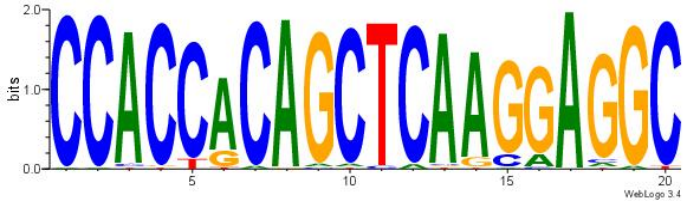

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

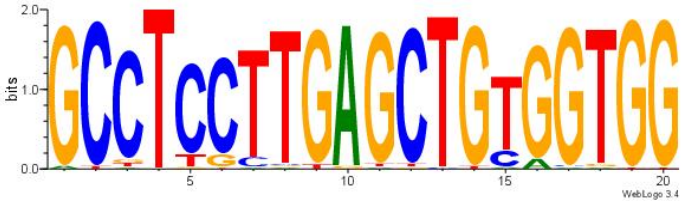

Dataset #: 1 Motif ID: 121 Motif name: Motif 121

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

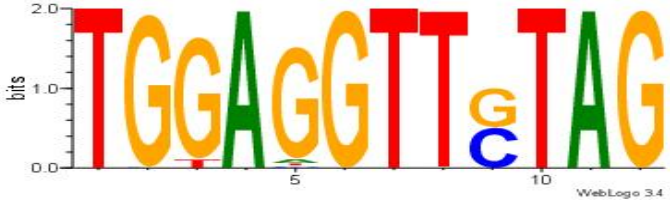

Best Matches for Motif ID 121 (Highest to Lowest)

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0292892

Alignment:

```
CCCTGCTAGAACCTCCAA
-----CTASAACCTCCA-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

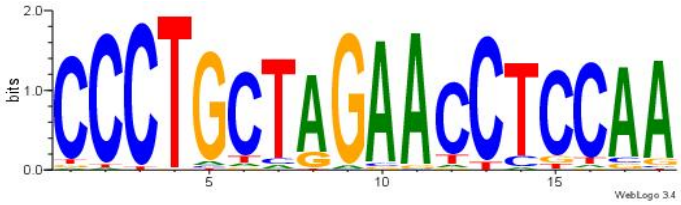

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

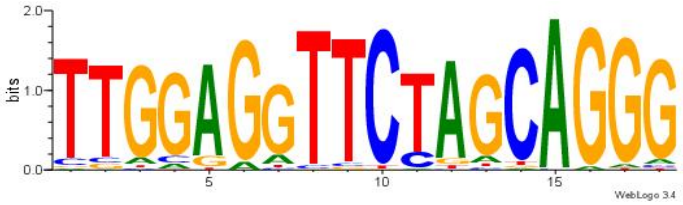

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0571056

Alignment:
ATGTGGAGGTGGAAGACAGT
---TGGAGGTTSTAG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

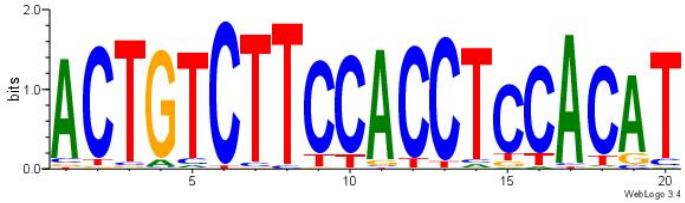

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

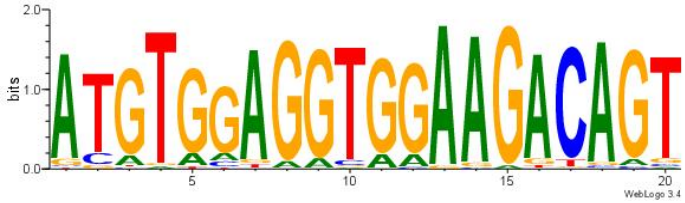

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0815825

Alignment:
AAAGCTGGAGCTATTATCTA
-----TGGAGGTTSTAG---

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

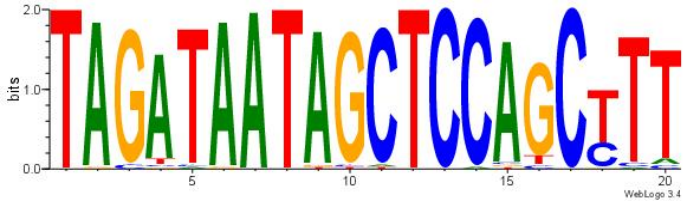

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

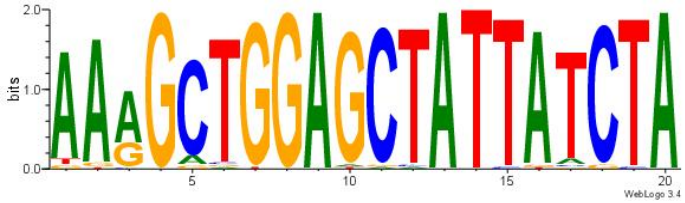

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0881505

Alignment:

```
AAGGAACAAACTCCRGACAC
---CTASAACCTCCA-----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

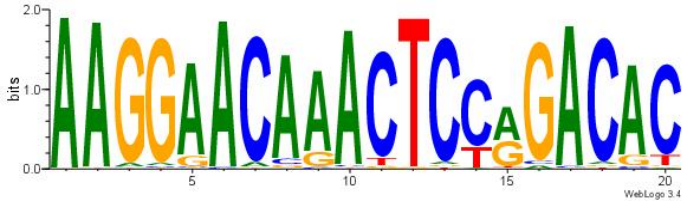

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

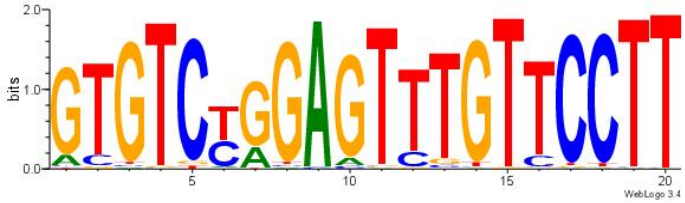

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0886401

Alignment:

```
KACATTGATTTTGTATC
----TGGAGGTTSTAG-
```

Original motif Consensus sequence: GATACAAAATCAATGTR

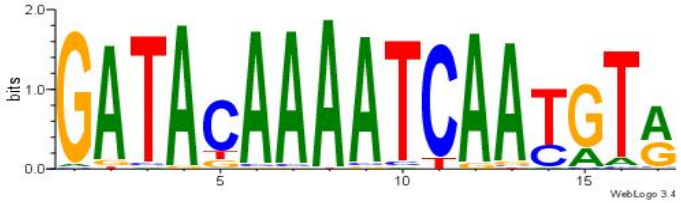

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

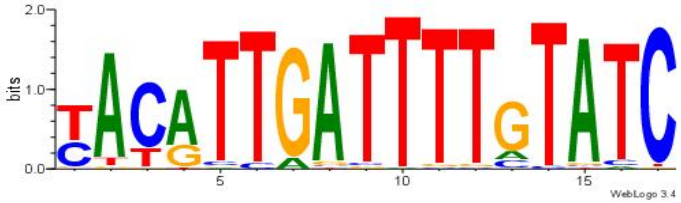

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 12
Similarity score: 0.089645

Alignment:
CACCAGGAGATTATATCCCR
----TGGAGGTTSTAG----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

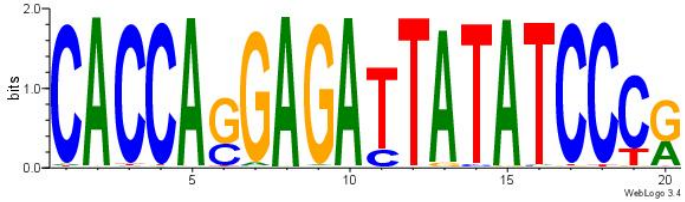

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

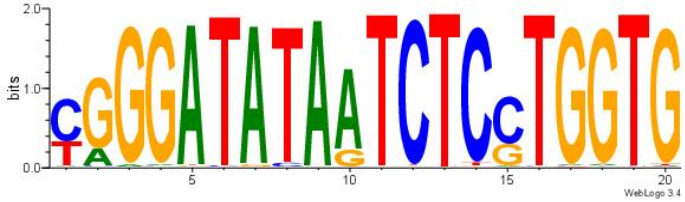

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0913116

Alignment:
GGTGGAGCTGCCTGCCAGTC
--TGGAGGTTSTAG------

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

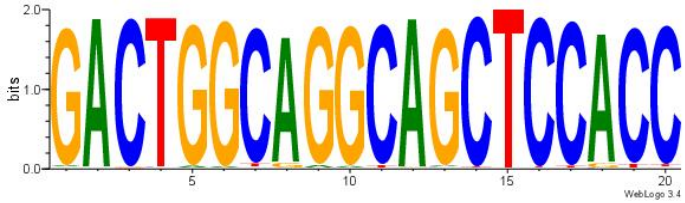

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

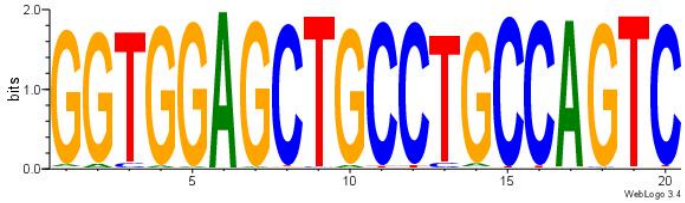

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0917511

Alignment:

```
MTCCTCCAGACCCCAGAATG
---CTASAACCTCCA-----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

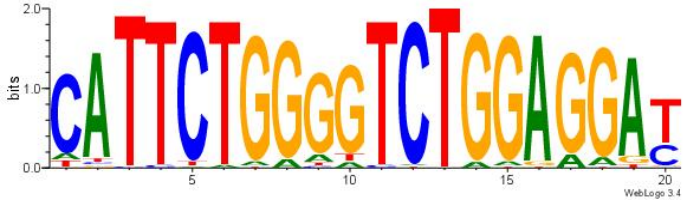

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

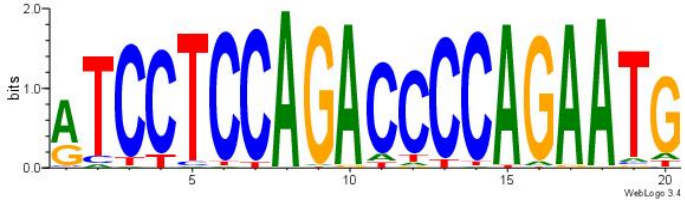

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0919158

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-------TGGAGGTTSTAG-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

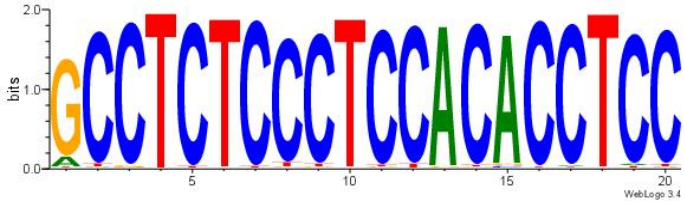

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

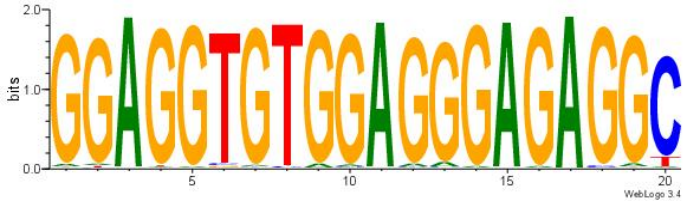

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9

Number of overlap: 12
Similarity score: 0.0921636

Alignment:
CTGGGTCCCCCAGCAGTGCC
CTASAACCTCCA--------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

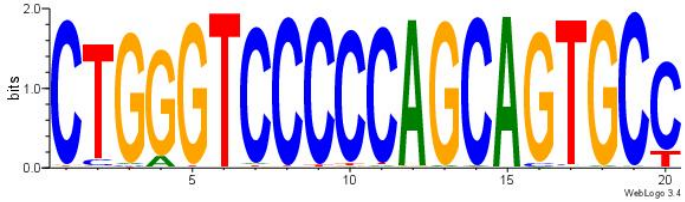

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

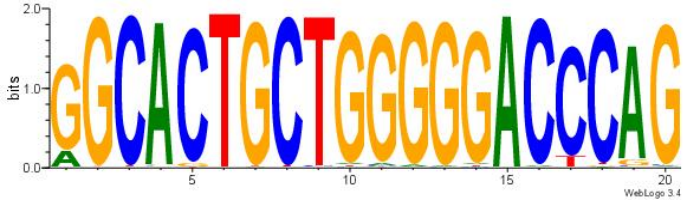

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0929487

Alignment:
CAGACTGCCTCCTCAA
----CTASAACCTCCA

Original motif Consensus sequence: CAGACTGCCTCCTCAA

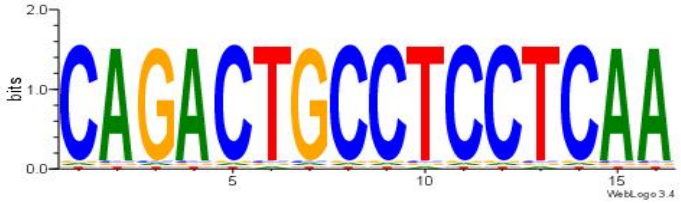

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

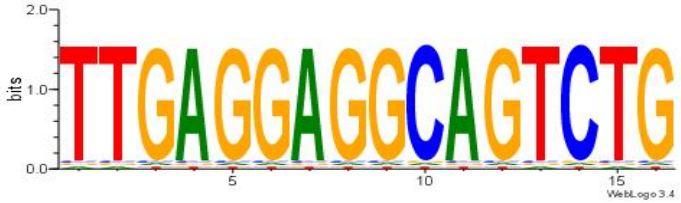

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0947149

Alignment:

```
GCTAATATATCCCTCCC
-CTASAACCTCCA----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

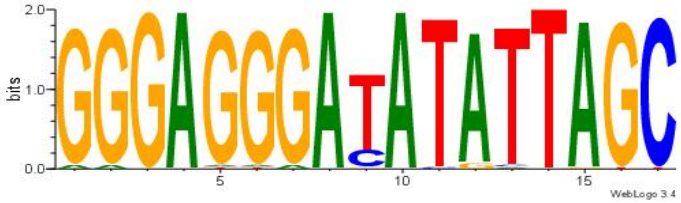

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

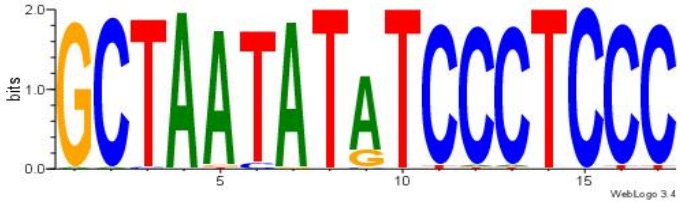

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0949943

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-----CTASAACCTCCA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

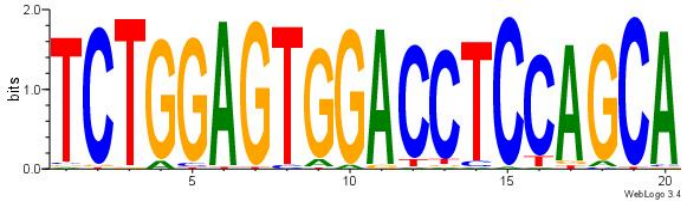

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

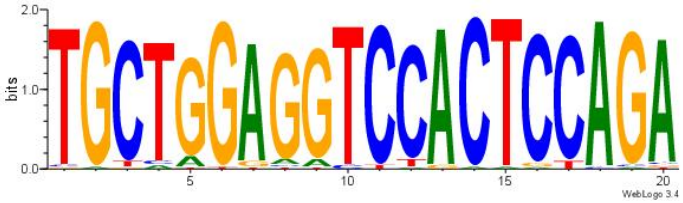

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 12
Similarity score: 0.0970233

Alignment:
CCCAAATCCTATAAAA
-CTASAACCTCCA---

Original motif Consensus sequence: CCCAAATCCTATAAAA

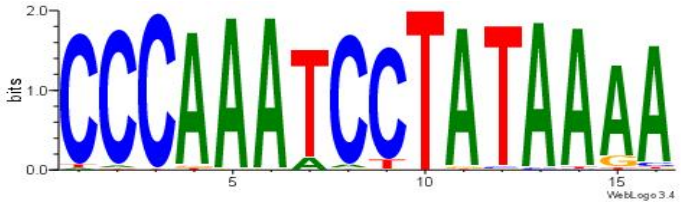

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

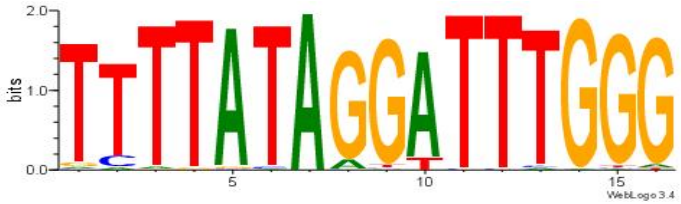

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0972263

Alignment:
AAGGGACATTKGAG
--TGGAGGTTSTAG

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

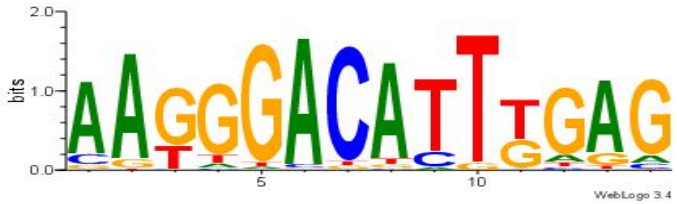

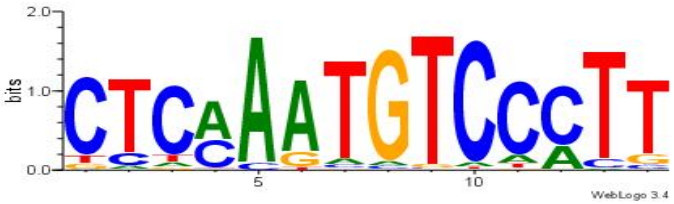

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0974037

Alignment:

```
ATTGGTGTATTTACAATCCC
------TGGAGGTTSTAG--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

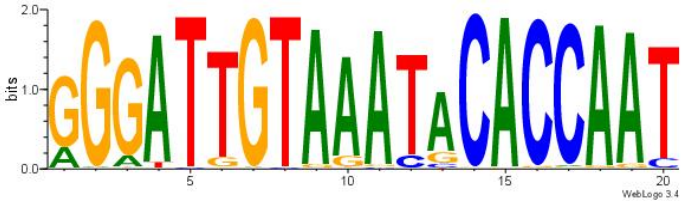

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.100406

Alignment:

```
AACAACAACAACAAMAA
--CTASAACCTCCA---
```

Original motif Consensus sequence: AACAACAACAACAAMAA

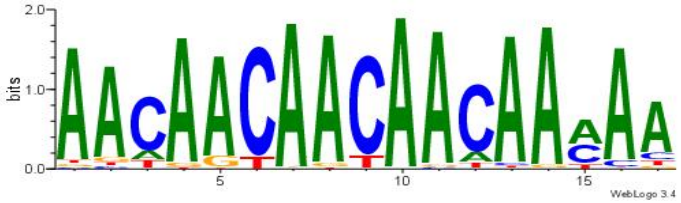

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

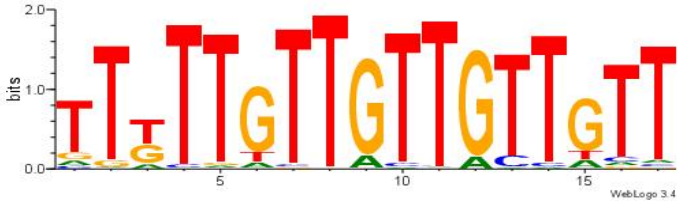

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.10051

Alignment:
TMGGGAGGCTGAGGCAGGAG
--TGGAGGTTSTAG------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

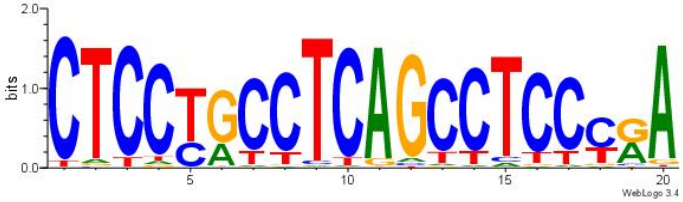

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

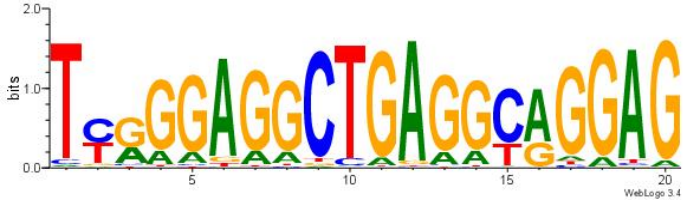

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.100515

Alignment:
CAGGTGGTKTTTGGTTACAT
-TGGAGGTTSTAG-------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

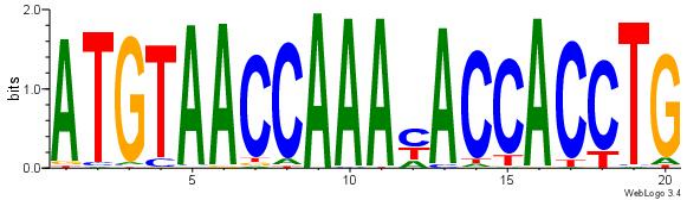

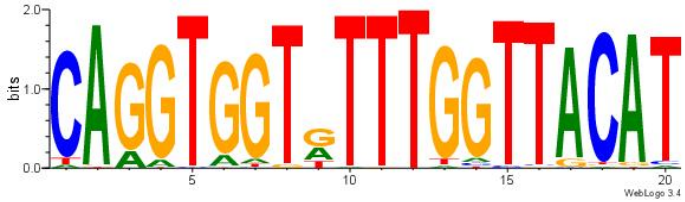

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.100758

Alignment:

```
TGGAGAACCTTTATGTCTAG
-------CTASAACCTCCA-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

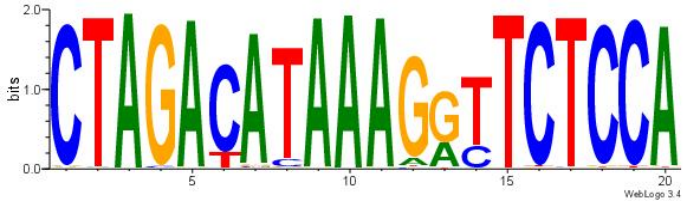

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

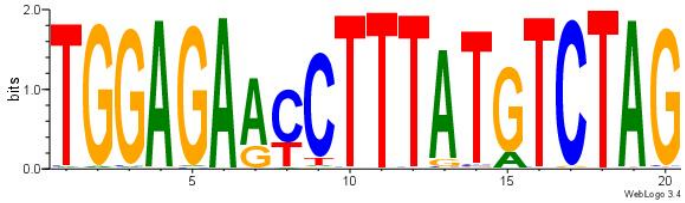

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.101537

Alignment:

```
GGATTTMKGACTTGCATGGG
----CTASAACCTCCA----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

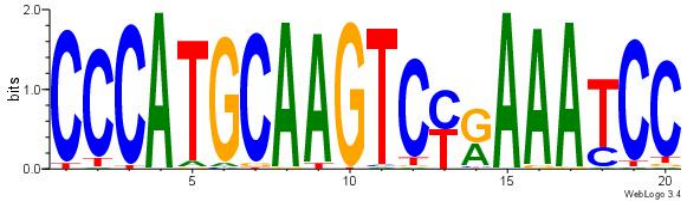

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

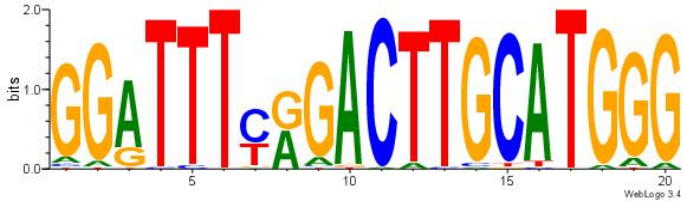

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.101825

Alignment:
TCACKMGGGAAGCGCAAG
------TGGAGGTTSTAG

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

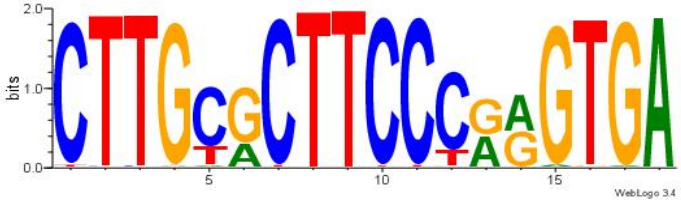

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

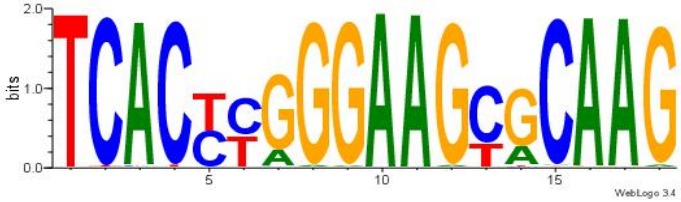

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.102595

Alignment:
GGTGGGGGGGTCAGCCCCC
--TGGAGGTTSTAG-----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

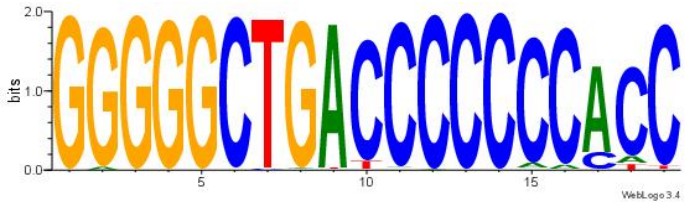

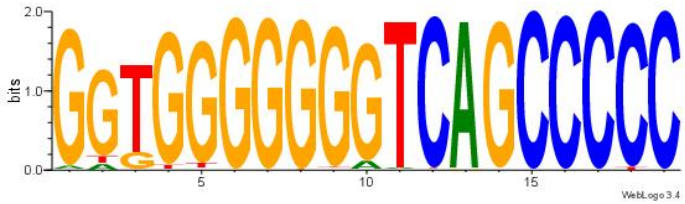

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.104242

Alignment:

```
AGTGTTTCCAAMCTGCT
-----CTASAACCTCCA
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

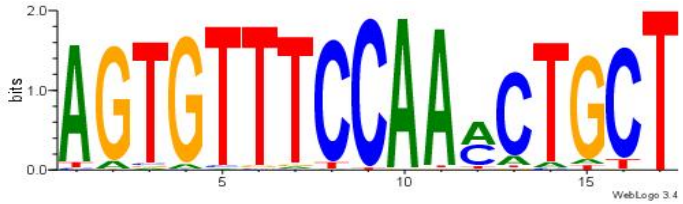

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

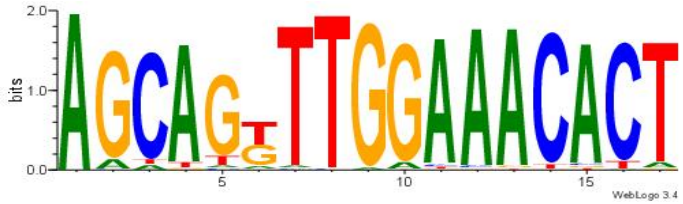

Dataset #: 1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.104404

Alignment:

```
CTTGGGTGGTCGATGGGAC
--TGGAGGTTSTAG-----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

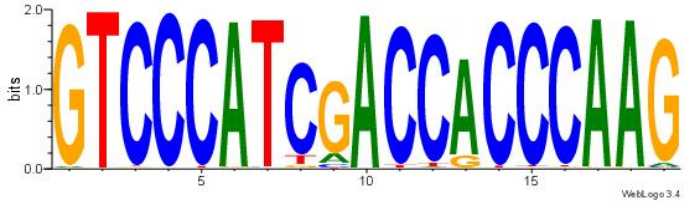

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

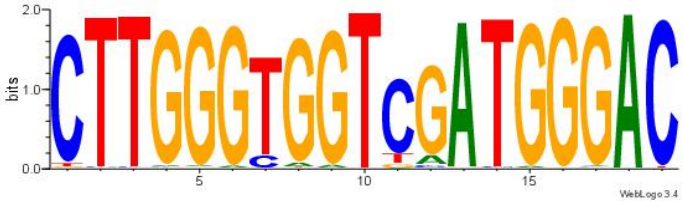

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.104727

Alignment:
AAAGTGCCGAGAKTGCAGC
------TGGAGGTTSTAG-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

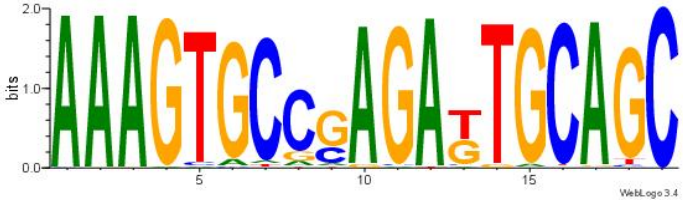

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

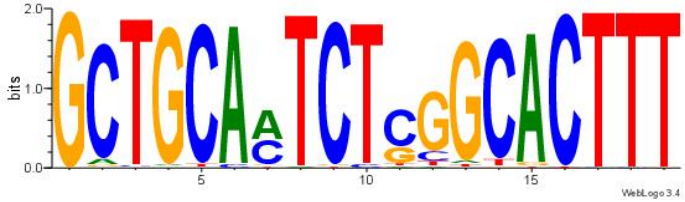

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.10645

Alignment:
AAGTCTCCCAATTACAACT
----CTASAACCTCCA---

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

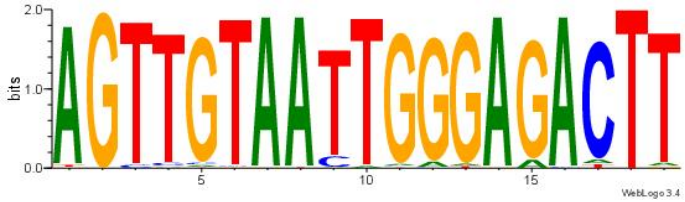

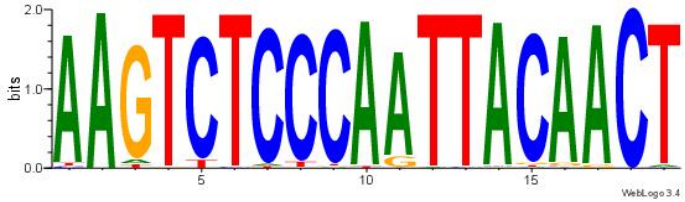

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.106966

Alignment:

```
ACCTGGAAAATCGGGTCACT
-----TGGAGGTTSTAG---
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

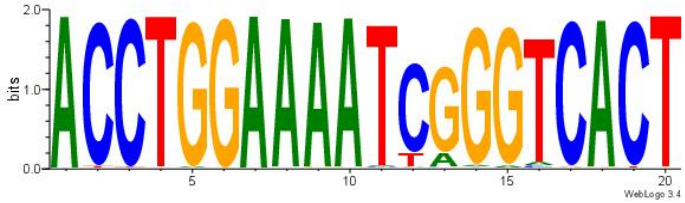

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

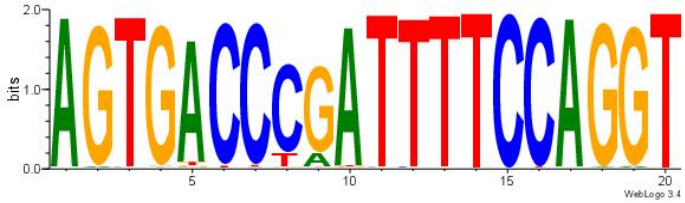

Dataset #:	1

Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107088

Alignment:

```
GCTCTCAGGTCCA
-CTASAACCTCCA
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

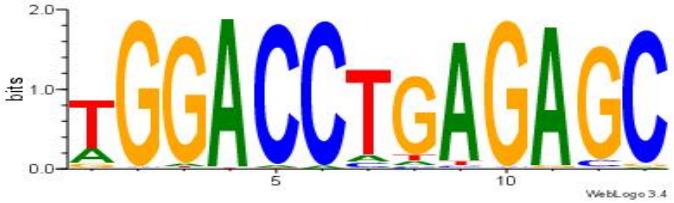

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.10724

Alignment:
TGATGGGTGCACCAAA
TGGAGGTTSTAG----

Original motif Consensus sequence: TGATGGGTGCACCAAA

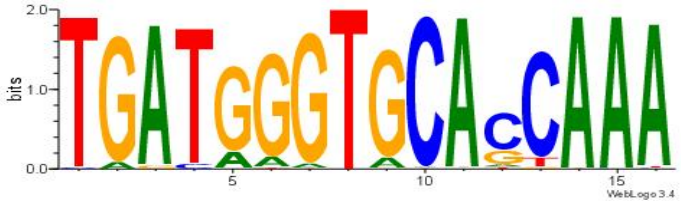

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

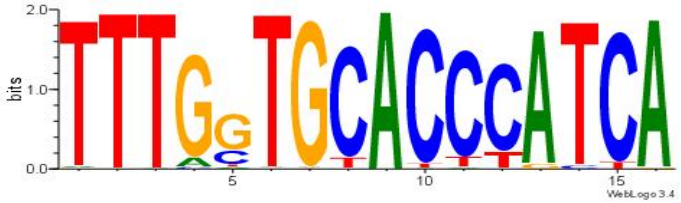

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.107285

Alignment:
AGGCTGTTTTACAGTTAAC
TGGAGGTTSTAG-------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

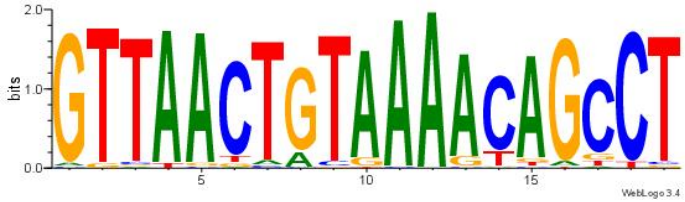

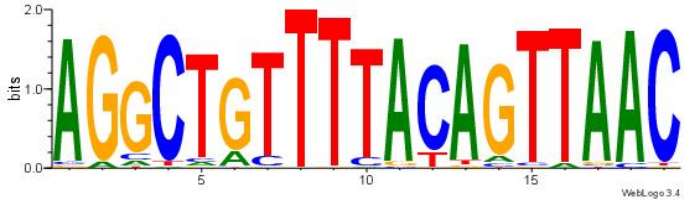

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.107356

Alignment:

```
TAATAAGGGTGTGGG
--TGGAGGTTSTAG-
```

Original motif Consensus sequence: CCCACACCCTTATTA

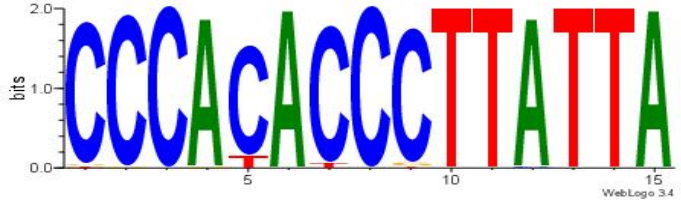

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

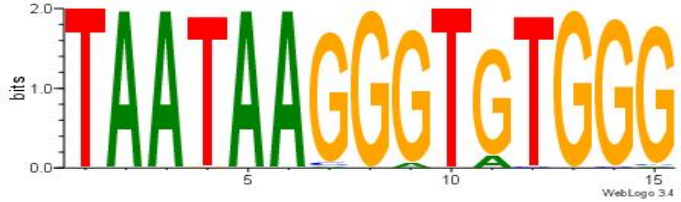

Dataset #:	1
Motif ID:	68

Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.107622

Alignment:

```
GACCTGCAGCCCGCCATG
---CTASAACCTCCA---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

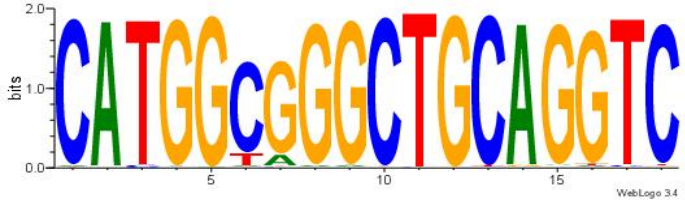

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

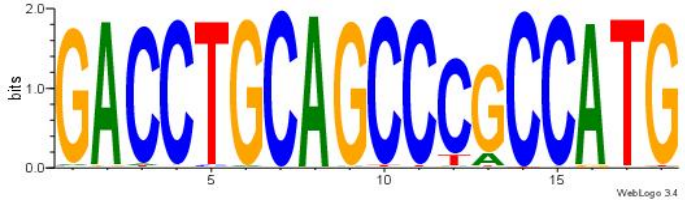

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.108292

Alignment:
TGAGKCAATTAAACCTCTT
-------CTASAACCTCCA

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

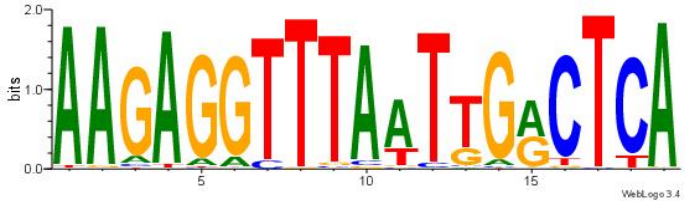

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

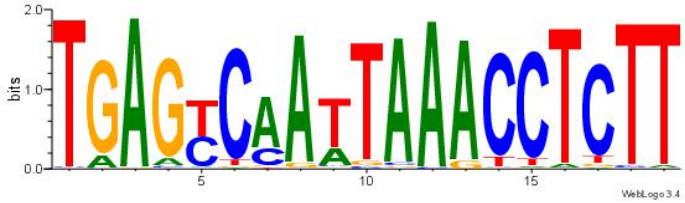

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.108426

Alignment:
CAACATGGATGRARCTGGAG
---TGGAGGTTSTAG-----

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

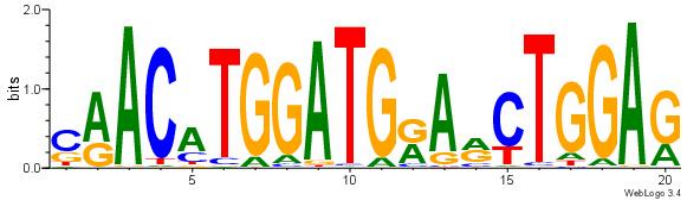

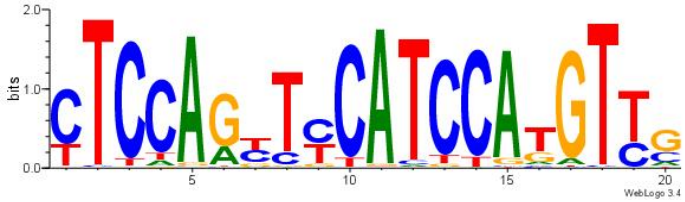

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.108447

Alignment:

```
TAGTGGTGATTTSTGAGAT
---TGGAGGTTSTAG----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

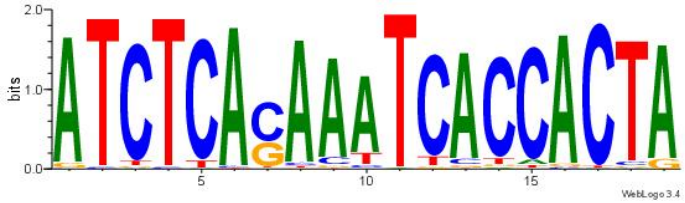

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

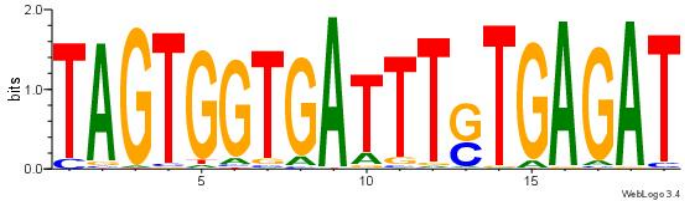

Dataset #: 1

Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.108505

Alignment:

```
CTACATGGACCTT
CTASAACCTCCA-
```

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

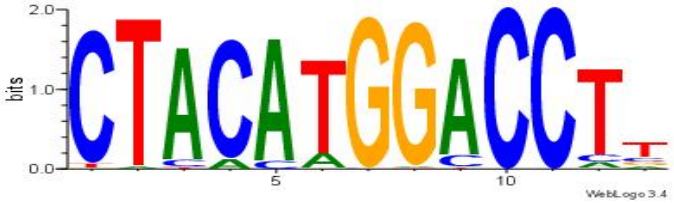

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.108557

Alignment:
AGTTCCGGGTGGGCGTGGG
-TGGAGGTTSTAG------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

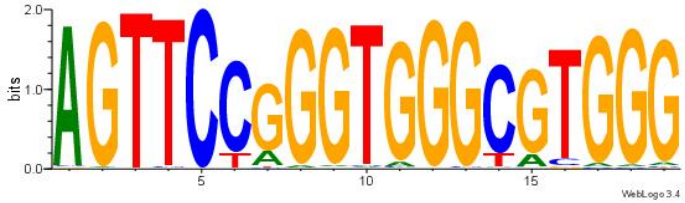

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

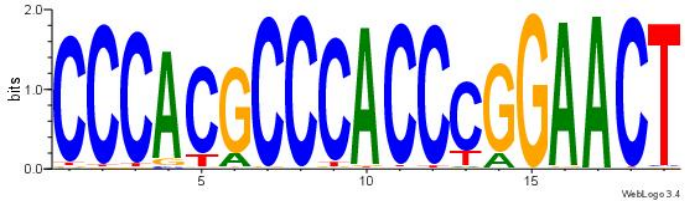

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.108735

Alignment:
GCTGGCCCGCAAGCGCCGCG
------CTASAACCTCCA--

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

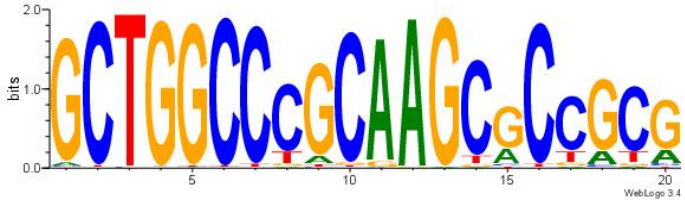

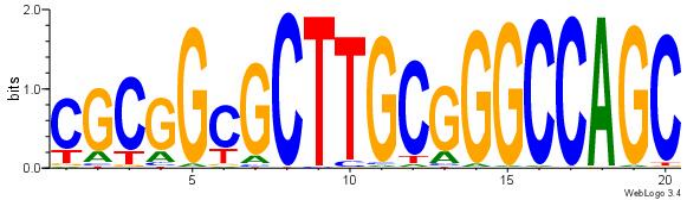

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.108752

Alignment:

```
ACTTTGGACTGTGGACTTTT
----TGGAGGTTSTAG----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

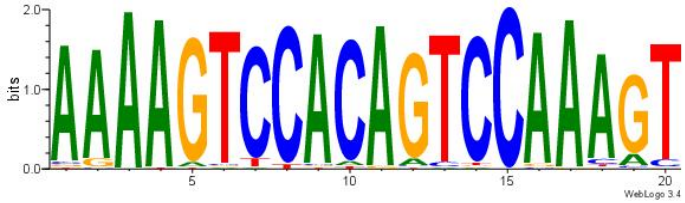

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

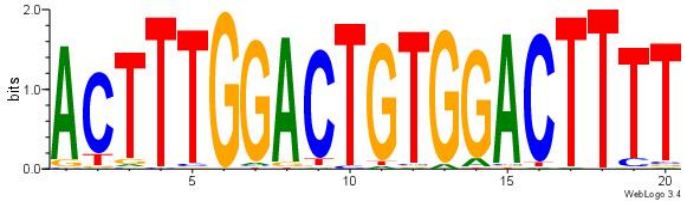

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.109021

Alignment:

```
ATGATCCAGCAATYCCACTH
-----CTASAACCTCCA---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

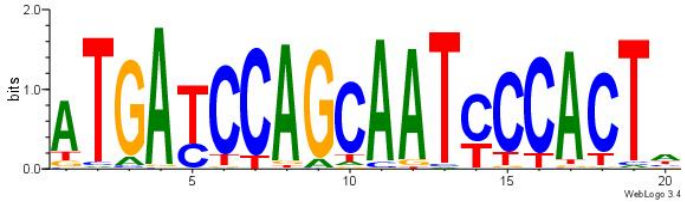

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

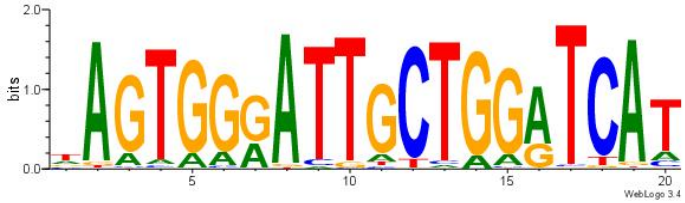

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.109057

Alignment:
CCCMKGGCACCCTCAGTCCT
---CTASAACCTCCA-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

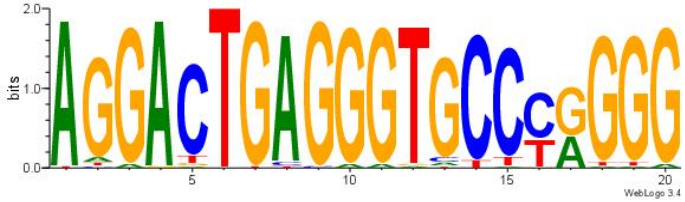

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

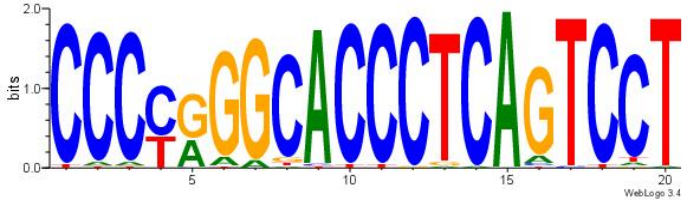

Dataset #: 1
Motif ID: 355
Motif name: Motif 355
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.109482

Alignment:
TATGAGCCTGTAA
-TGGAGGTTSTAG

Original motif Consensus sequence: TATGAGCCTGTAA

Reverse complement motif Consensus sequence: TTACAGGCTCATA

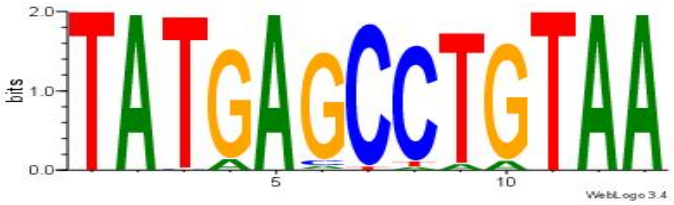

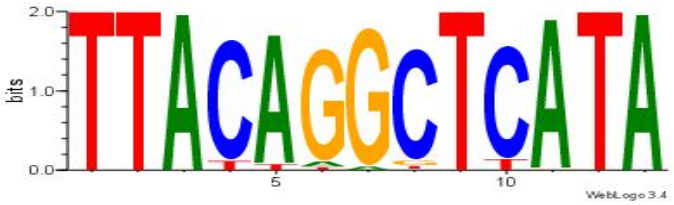

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.109812

Alignment:

```
ATATTGATGATCCTGACC
---TGGAGGTTSTAG---
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

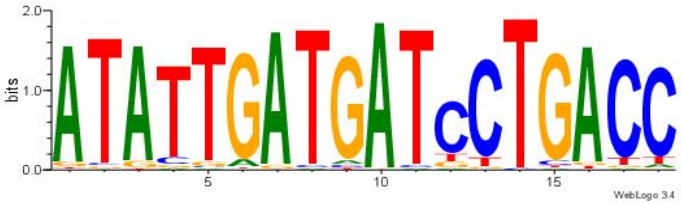

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

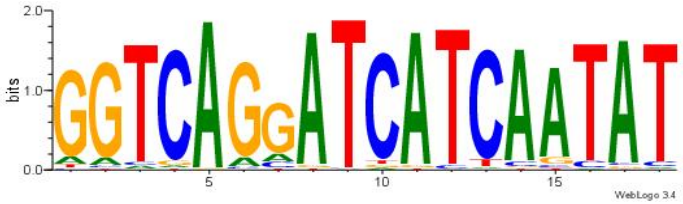

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.109812

Alignment:

```
ACAGGCTGTCCCAGGATTC
--TGGAGGTTSTAG-----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

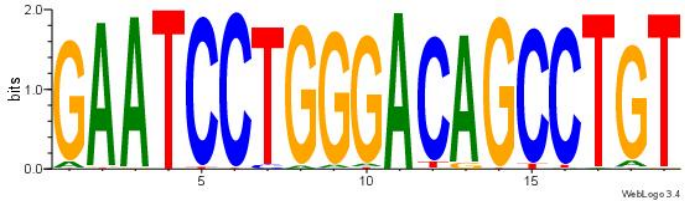

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

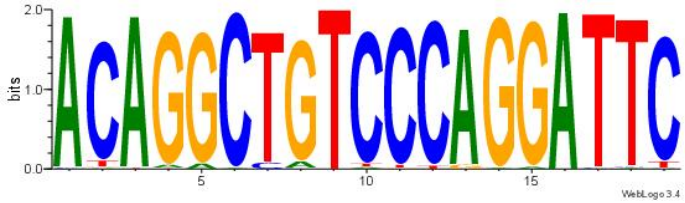

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.110102

Alignment:
CATTAGATTCTCATAGGA
--CTASAACCTCCA----

Original motif Consensus sequence: CATTAGATTCTCATAGGA

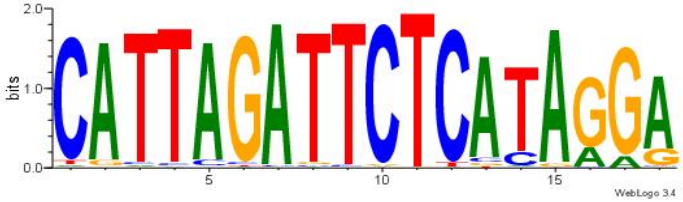

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

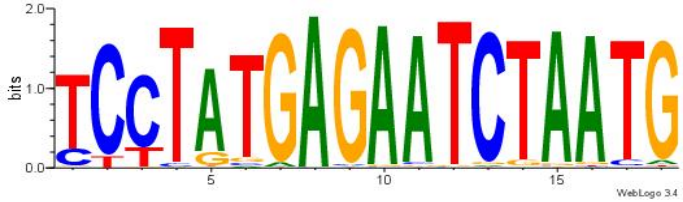

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.11055

Alignment:
CCCGAAGCTGCRYRCTCGGT
CTASAACCTCCA--------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

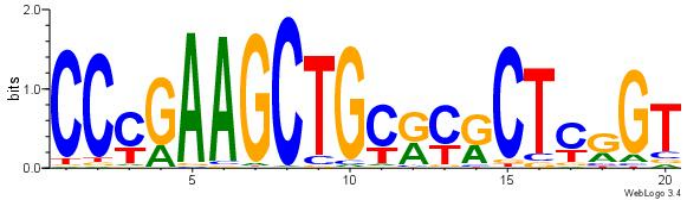

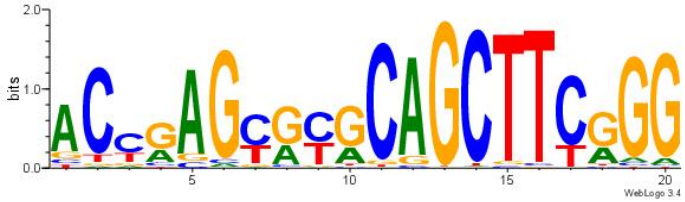

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.110596

Alignment:

```
MGAAGGGACTTGCCTTGT
TGGAGGTTSTAG------
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

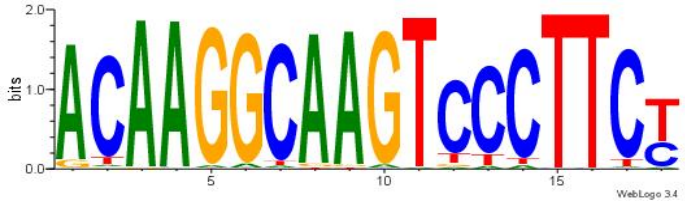

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

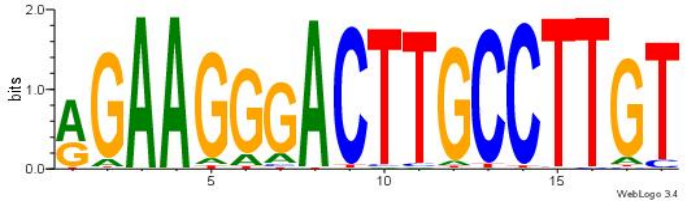

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.110663

Alignment:

```
GTGTCCCCTTCCTCCC
----CTASAACCTCCA
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

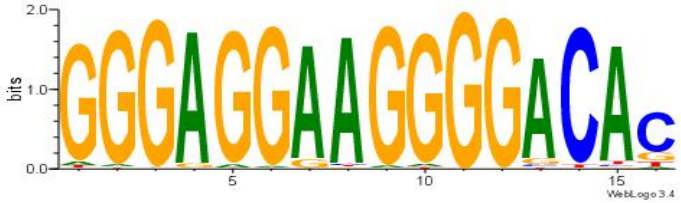

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

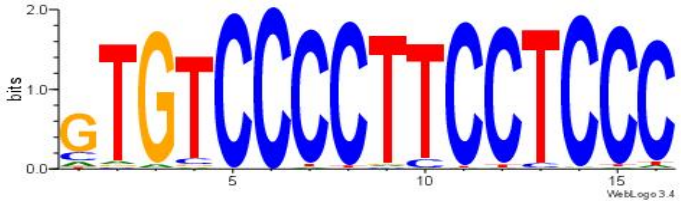

Dataset #:	1
Motif ID:	251
Motif name:	Motif 251
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.110688

Alignment:
CGAGACCAGCCTG
CTASAACCTCCA-

Original motif Consensus sequence: CAGGCTGGTCTCG

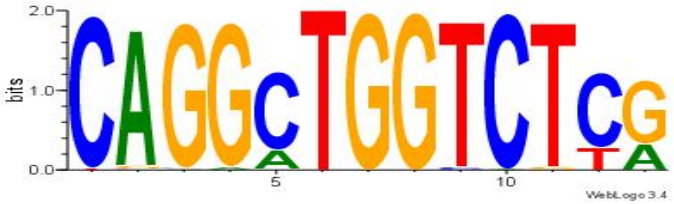

Reverse complement motif Consensus sequence: CGAGACCAGCCTG

Dataset #: 1 Motif ID: 122 Motif name: Motif 122

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

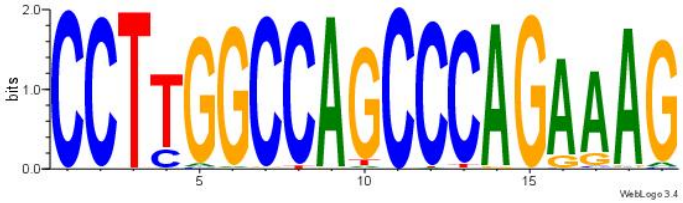

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

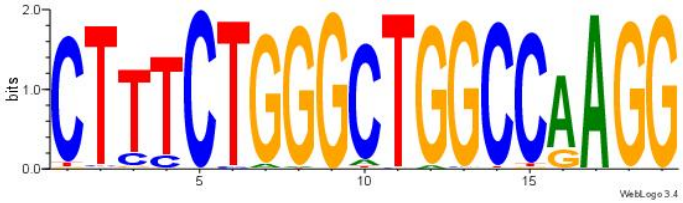

Best Matches for Motif ID 122 (Highest to Lowest)

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0950931

Alignment:
CCCACGCCCACCCGGAACT
CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

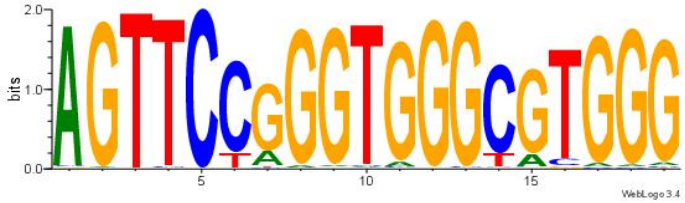

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

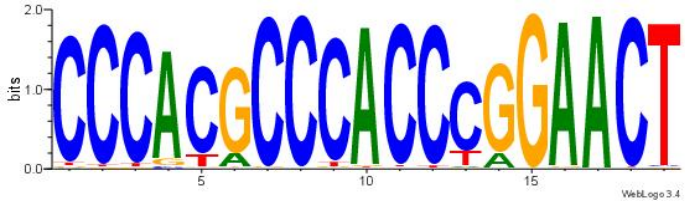

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0996139

Alignment:
CATTCTGGGGTCTGGAGGAY
CTTTCTGGGCTGGCCAAGG-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

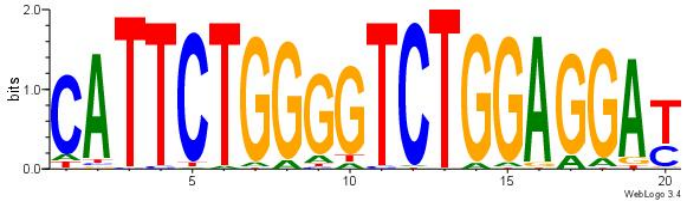

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

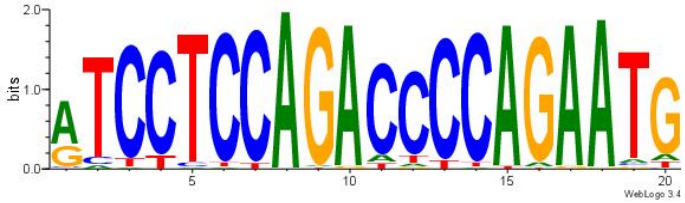

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.110655

Alignment:

```
CTTGCCCAAGGTCACACAGC
-CCTTGGCCAGCCCAGAAAG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

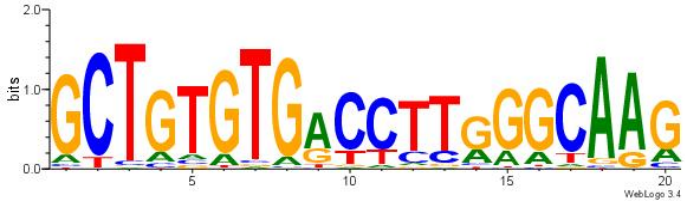

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

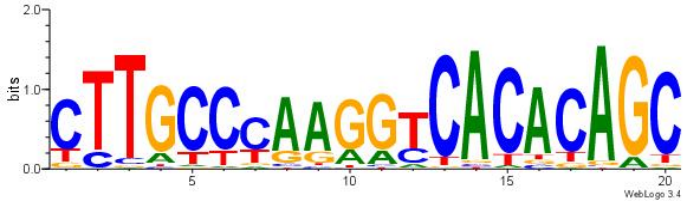

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.111917

Alignment:

```
AGGACTGAGGGTGCCYRGGG
CTTTCTGGGCTGGCCAAGG-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

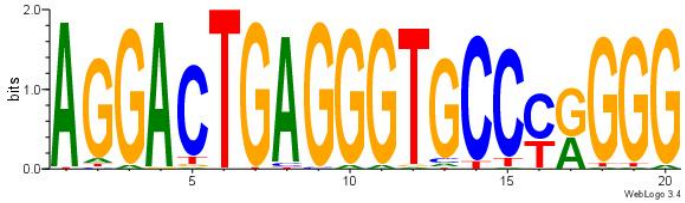

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

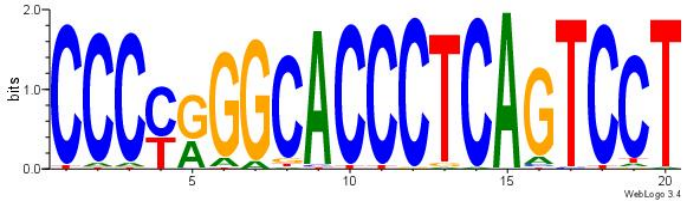

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.1122

Alignment:
CCCATGCAAGTCYRAAATCC
CCTTGGCCAGCCCAGAAAG-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

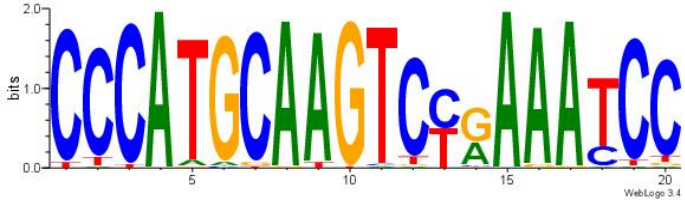

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

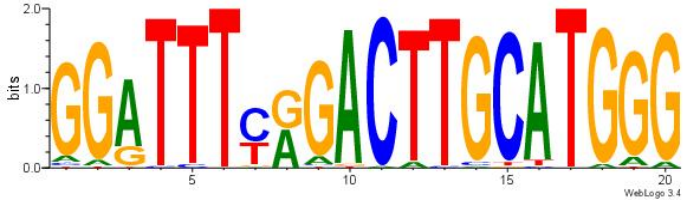

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.119676

Alignment:
GCCKGGMKCMGTGGCTCAKG
-CTTTCTGGGCTGGCCAAGG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

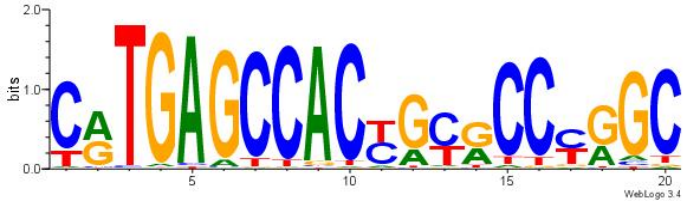

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

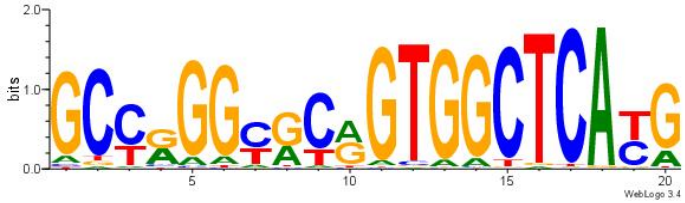

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.119936

Alignment:

```
ACTCAGCCCRCCTGCACCC
CCTTGGCCAGCCCAGAAAG
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

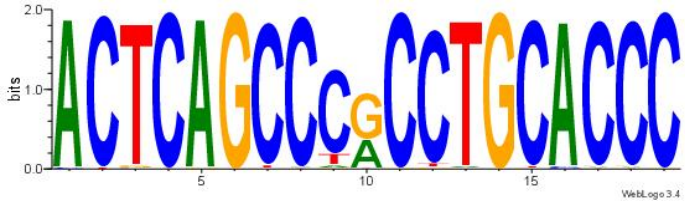

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

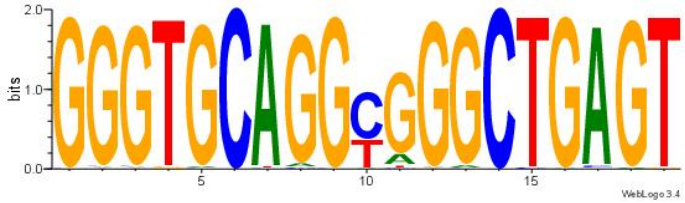

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.123314

Alignment:

```
CTGACTGGGAGACACCTCCC
CTTTCTGGGCTGGCCAAGG-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

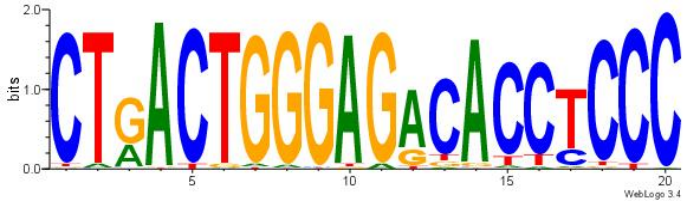

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

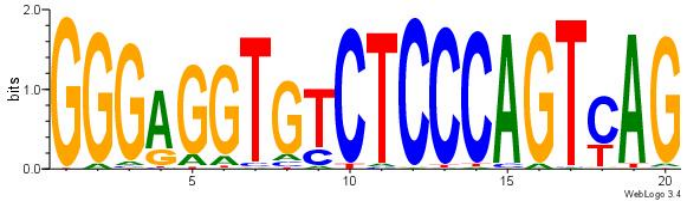

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.12568

Alignment:
CCACCACAGCTCAAGGAGGC
CCTTGGCCAGCCCAGAAAG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

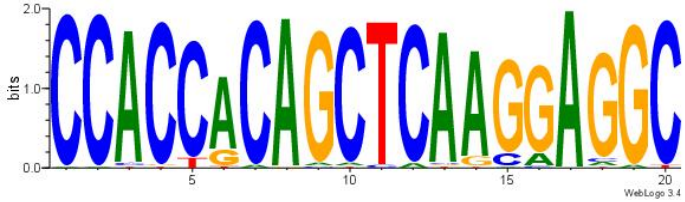

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

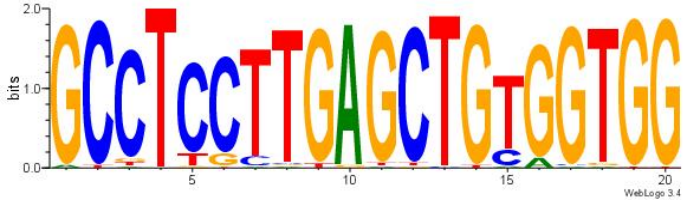

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.127667

Alignment:
GCACATGTAYCCYAGAACTT
CCTTGGCCAGCCCAGAAAG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

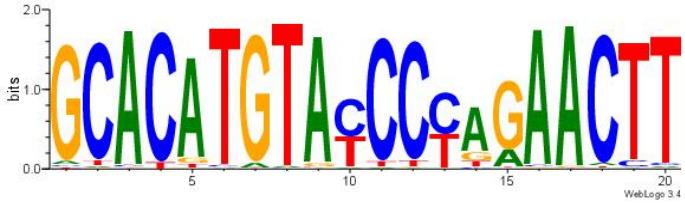

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

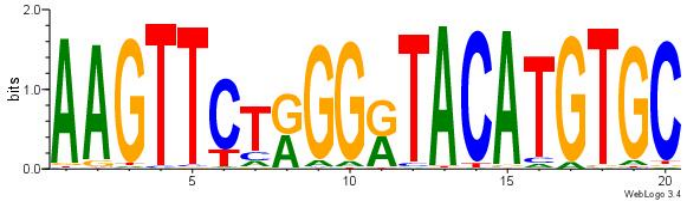

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127702

Alignment:

```
GCTGGCCCKGGTGCTAAGC
CCTTGGCCAGCCCAGAAAG
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

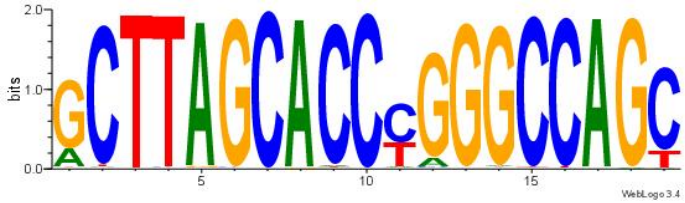

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

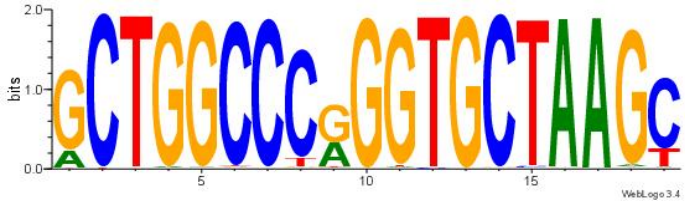

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.128101

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CCTTGGCCAGCCCAGAAAG
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

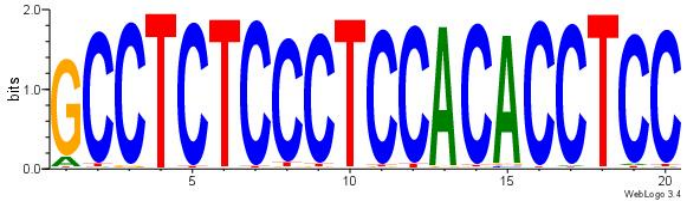

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

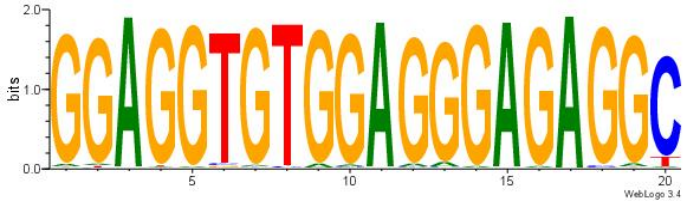

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.129208

Alignment:
CAAGCCTSKGCAATGGCAGG
-CTTTCTGGGCTGGCCAAGG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

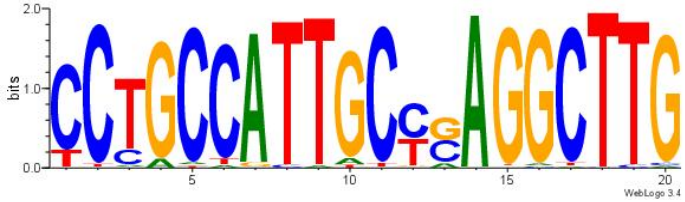

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

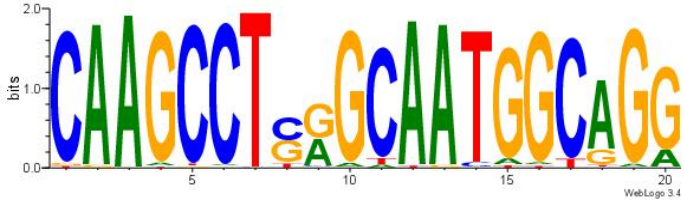

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.129661

Alignment:
GCCKCCCCGTCCGGGAGGGA
CCTTGGCCAGCCCAGAAAG-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

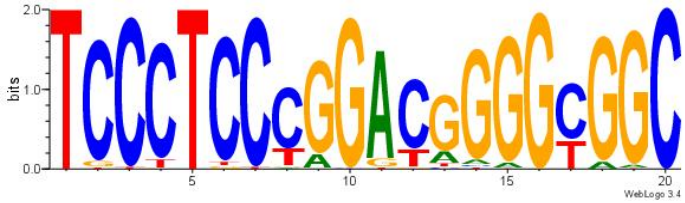

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

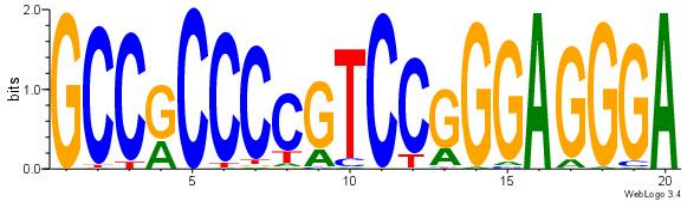

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.129745

Alignment:

```
CAGTCTGTGTCTTTTAATT
CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

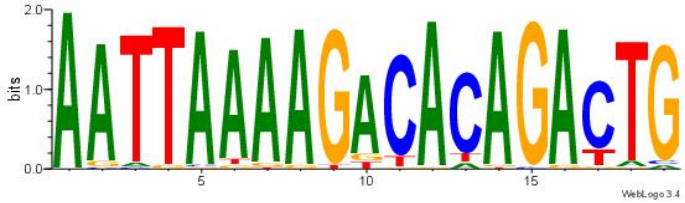

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

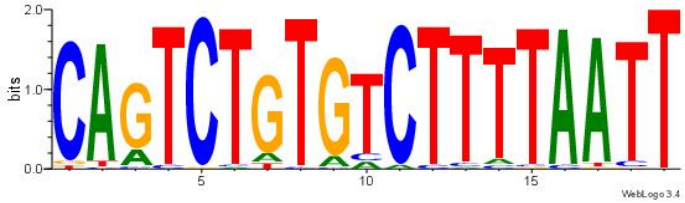

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.132473

Alignment:

```
AGTGACCCGATTTTCCAGGT
-CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

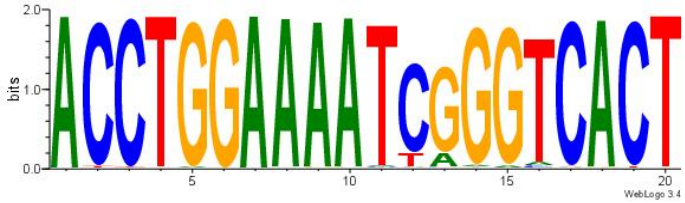

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

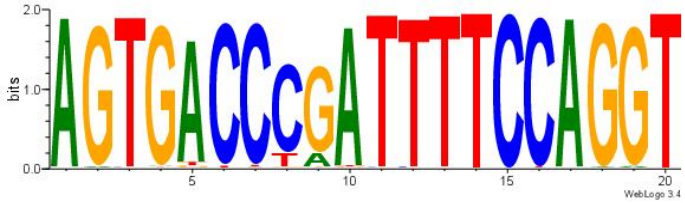

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.132556

Alignment:
AGCTCCCAGCGTGAGCGACG
CTTTCTGGGCTGGCCAAGG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

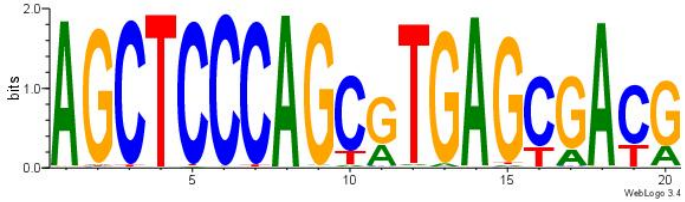

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

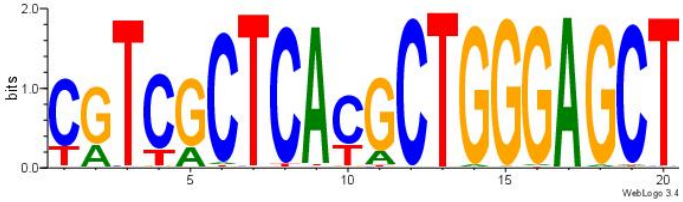

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.132716

Alignment:
AGCTCMKCCTCCTGTCAGAT
-CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

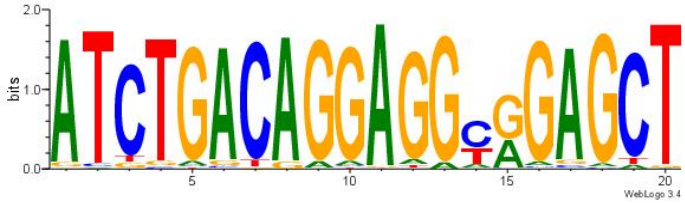

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

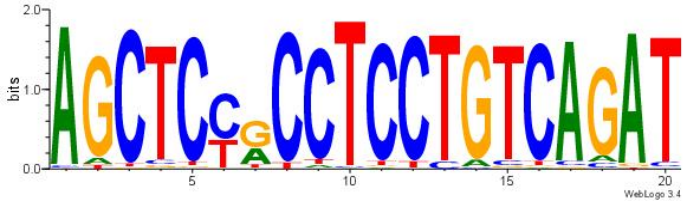

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133472

Alignment:

```
ATGTGGAGGTGGAAGACAGT
CCTTGGCCAGCCCAGAAAG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

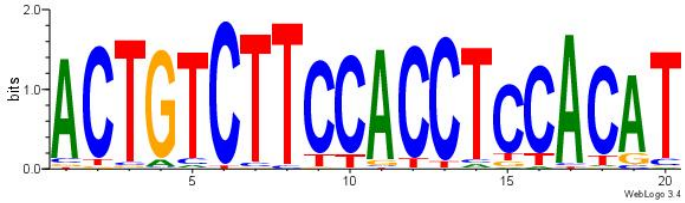

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

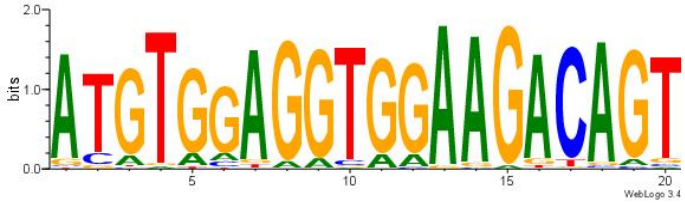

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134284

Alignment:

```
ACTTTGGACTGTGGACTTTT
-CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

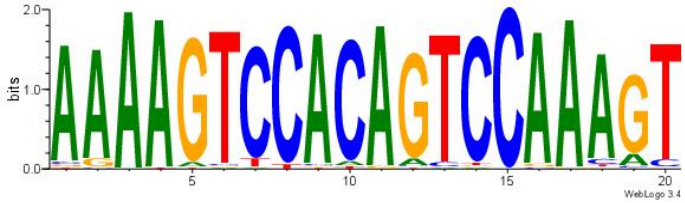

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

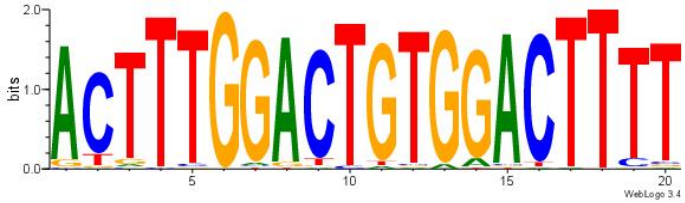

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.134551

Alignment:
GGTTCATCTCACTAGGGAGT
CCTTGGCCAGCCCAGAAAG-

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

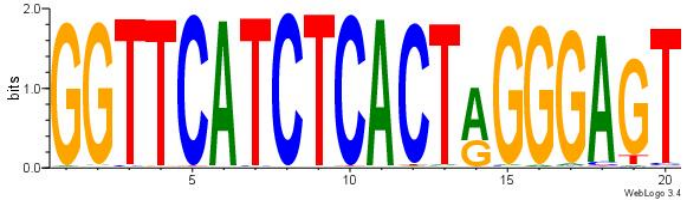

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

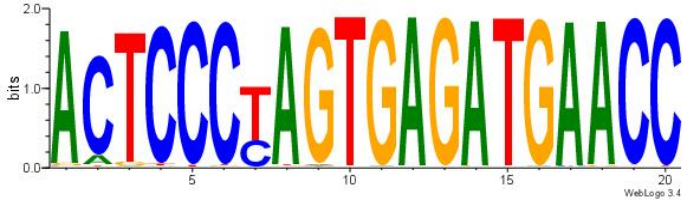

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.135204

Alignment:
AAATTACCCAGTCTCAGGTA
-CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

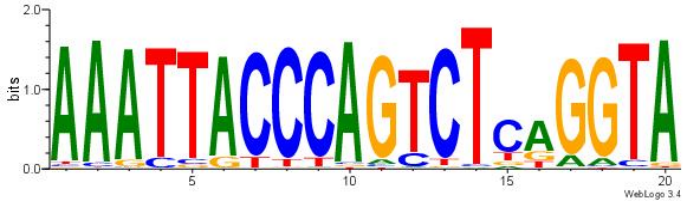

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

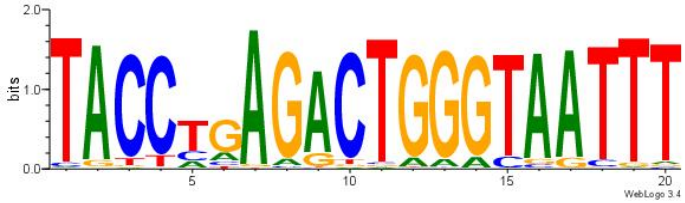

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.135346

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
CTTTCTGGGCTGGCCAAGG-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

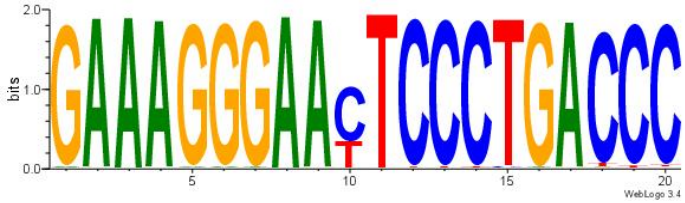

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

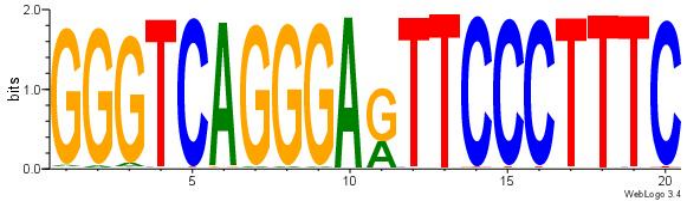

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137016

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-CCTTGGCCAGCCCAGAAAG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

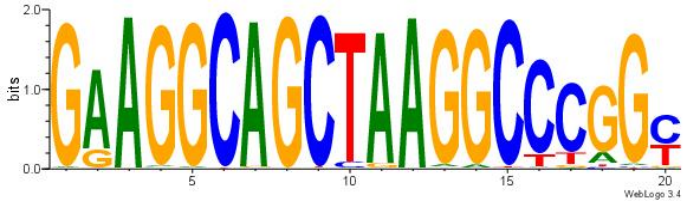

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

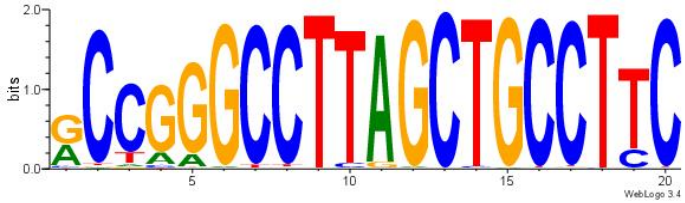

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.137685

Alignment:
ATCRCTTGAGSYCAGGAGKT
CCTTGGCCAGCCCAGAAAG-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

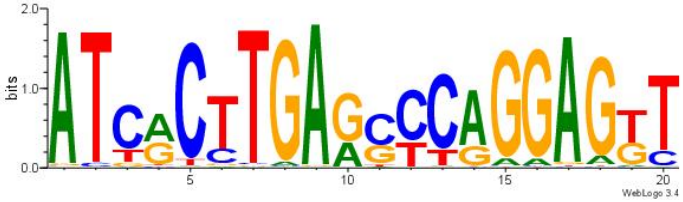

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

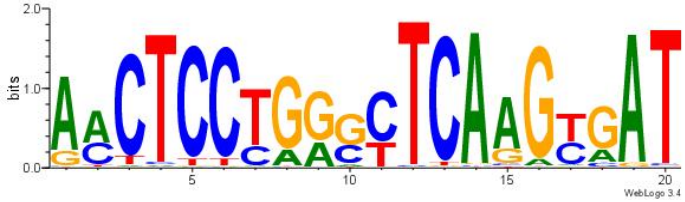

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.138053

Alignment:
TAGTGGTGATTTSTGAGAT
CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: ATCTCASAAATCACCACTA

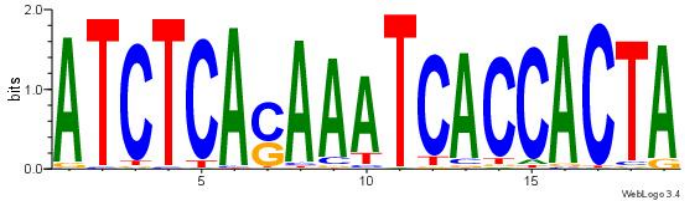

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

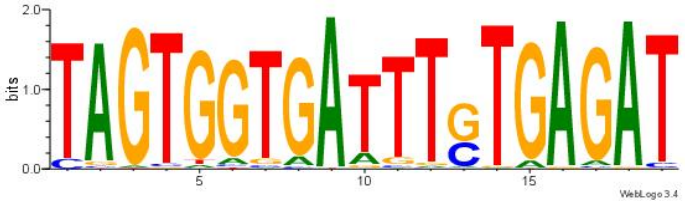

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138141

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-CCTTGGCCAGCCCAGAAAG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

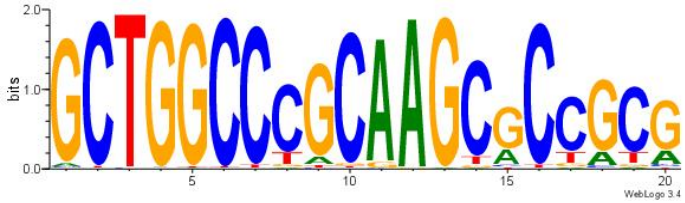

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

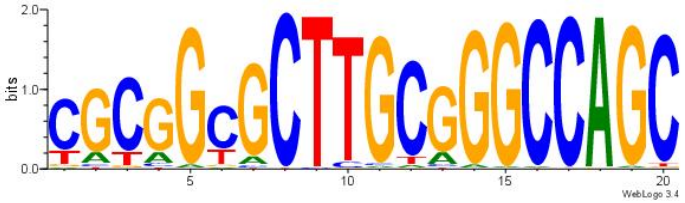

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138592

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CCTTGGCCAGCCCAGAAAG-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

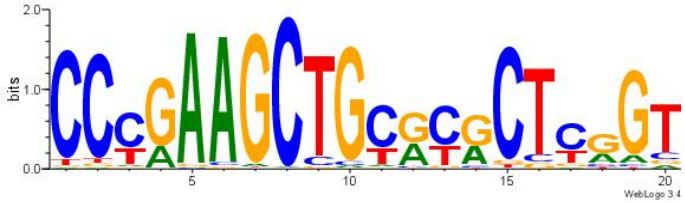

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

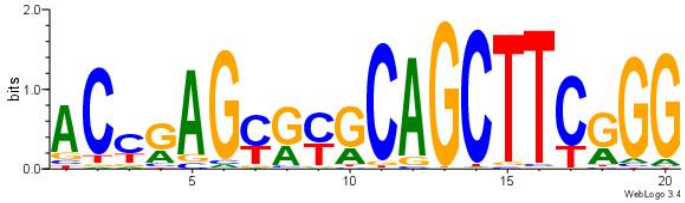

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.139023

Alignment:
GTGCCAGGCACTGTKCTARG
CTTTCTGGGCTGGCCAAGG-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

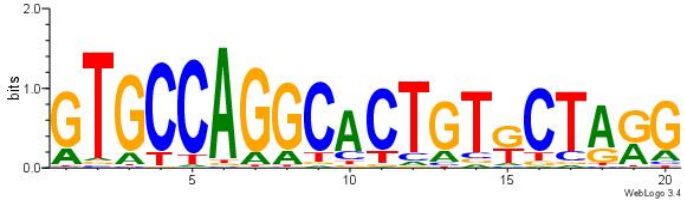

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

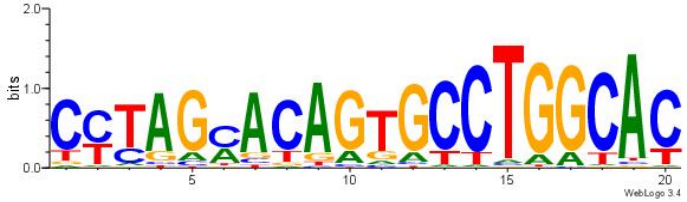

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.140052

Alignment:
CTTGGGTGGTCGATGGGAC
CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

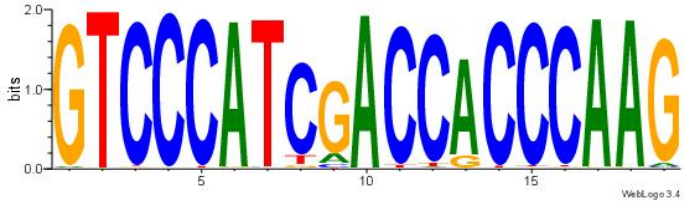

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

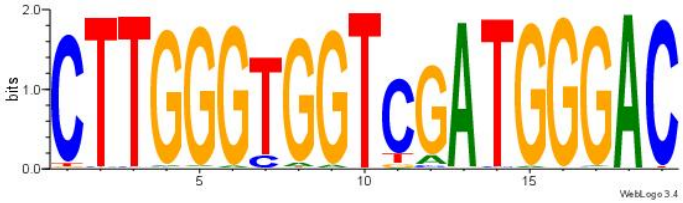

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140341

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
-CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

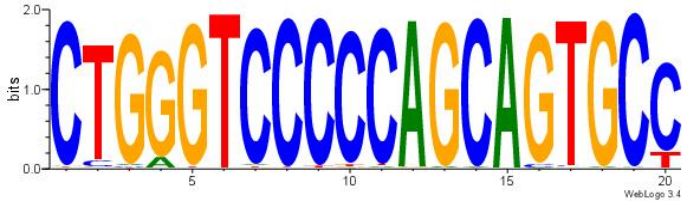

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

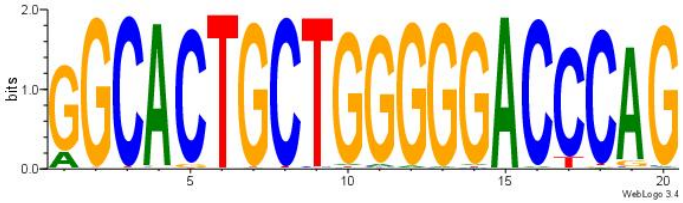

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140458

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

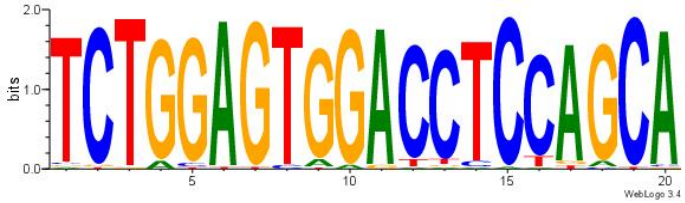

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

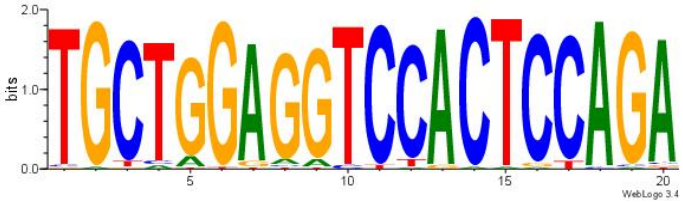

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.141323

Alignment:
ACCKTCGCGGTGAGTGTTAC
-CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

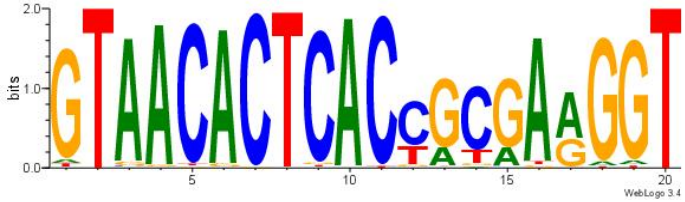

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

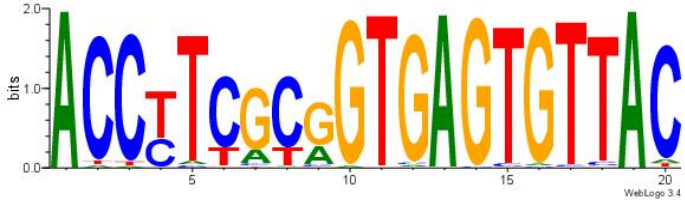

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.141785

Alignment:
GGTGGAGCTGCCTGCCAGTC
-CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

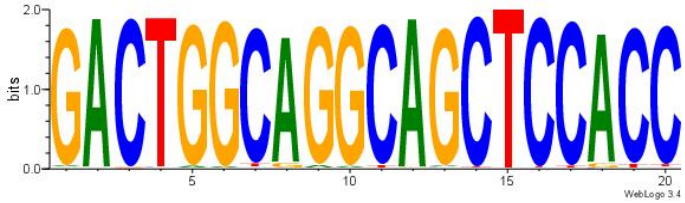

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

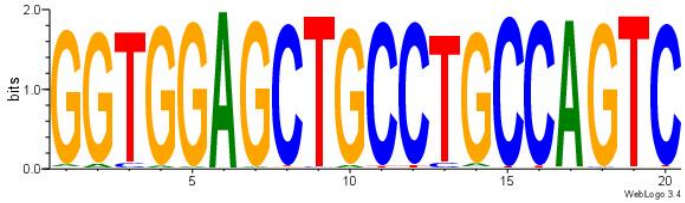

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141915

Alignment:

```
AGAAATCGAGCRCAGCGCCG
CCTTGGCCAGCCCAGAAAG-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

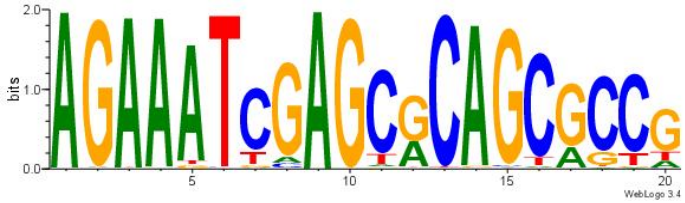

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

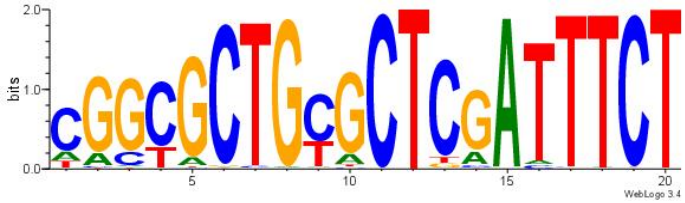

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142471

Alignment:

```
GGGATTGTAAATACACCAAT
CCTTGGCCAGCCCAGAAAG-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

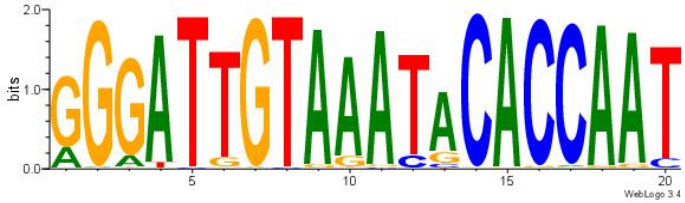

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.142638

Alignment:
GTTATTAATTGGCCTAATTT
CTTTCTGGGCTGGCCAAGG-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

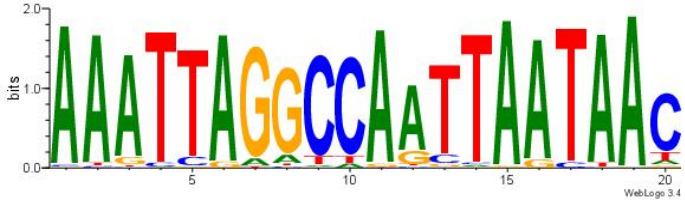

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.142669

Alignment:
GTCTCWAMAAAAAAWAMAAA
-CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

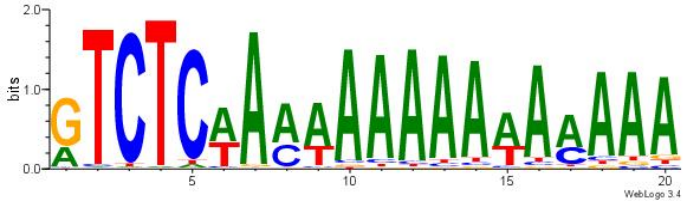

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

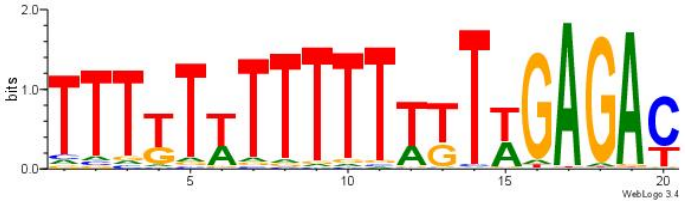

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.148437

Alignment:

```
AGGASCSTCYSWGCCMGGY
CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

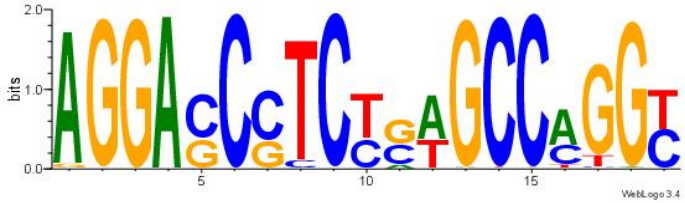

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

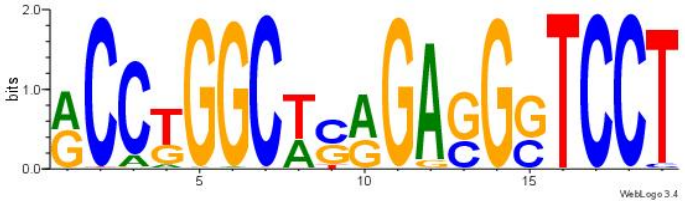

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.148571

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
CTTTCTGGGCTGGCCAAGG-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

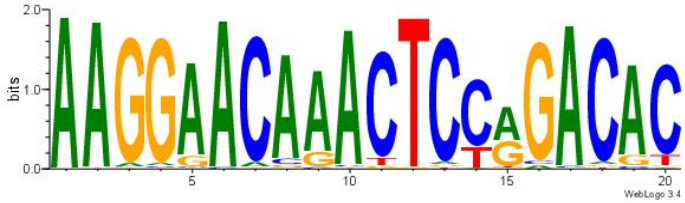

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

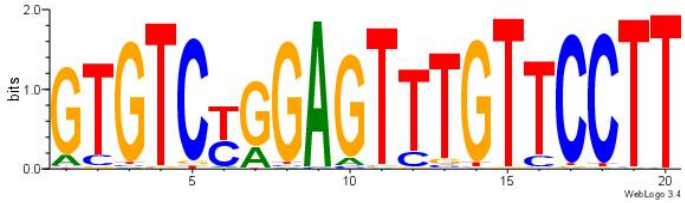

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.148678

Alignment:
CTATTGTGAATARTGCTGC
CTTTCTGGGCTGGCCAAGG

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

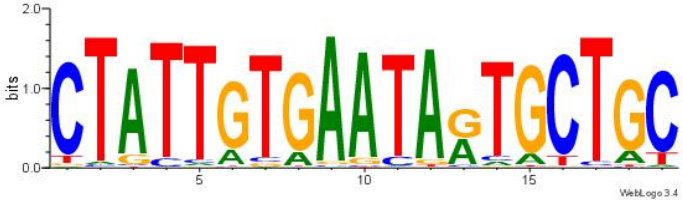

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

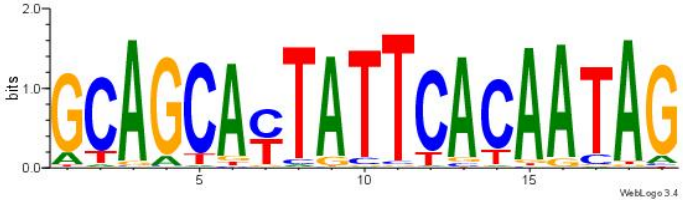

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.149428

Alignment:
TWTACCTATGTAACAAACCT
CTTTCTGGGCTGGCCAAGG-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

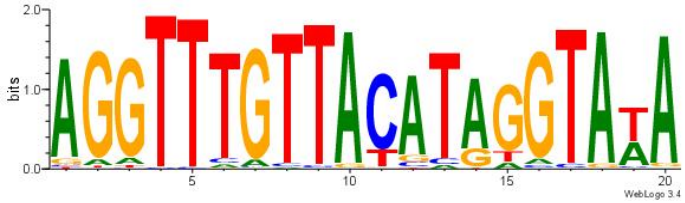

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

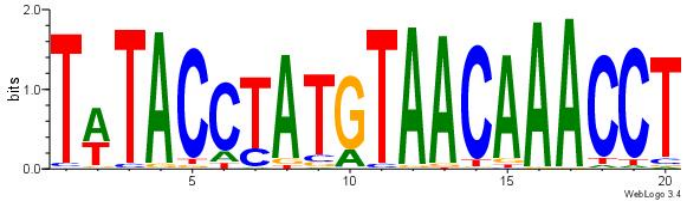

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.149568

Alignment:

```
ATTGATMKCCAGGGTTGATT
CTTTCTGGGCTGGCCAAGG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

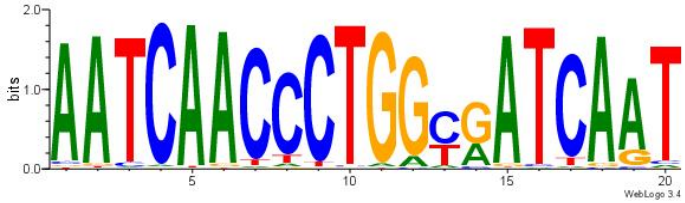

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

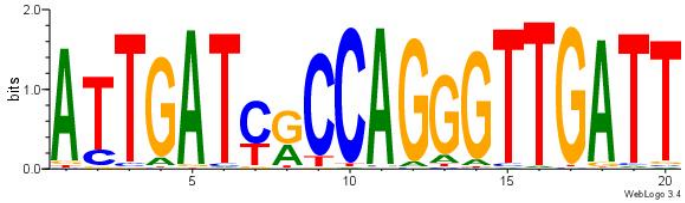

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.149704

Alignment:

```
VMATTTAKTGAGCACCTACT
-CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

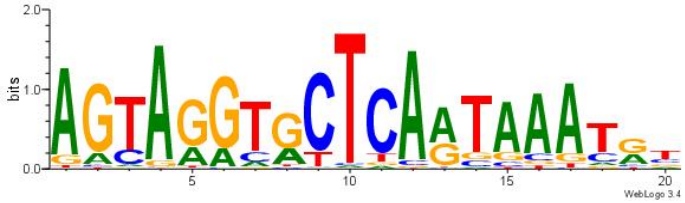

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

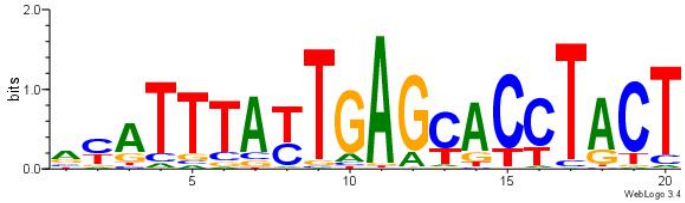

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.149981

Alignment:
CMCAGTTCACAATAGGGTT
CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

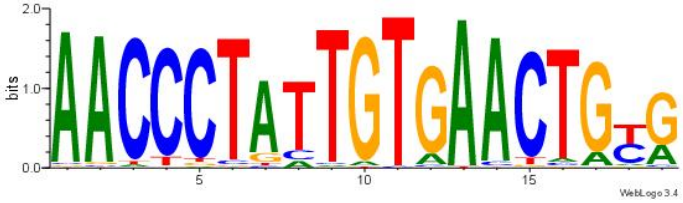

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

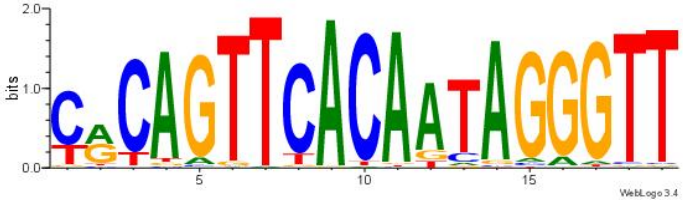

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.150002

Alignment:
GTGGCCCTCTTCTCACAGCT
CTTTCTGGGCTGGCCAAGG-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

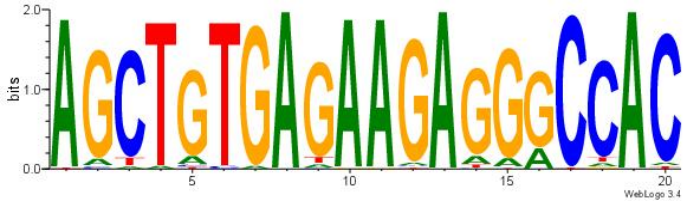

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

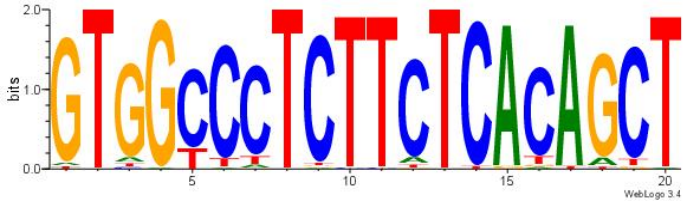

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.150393

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-CTTTCTGGGCTGGCCAAGG
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

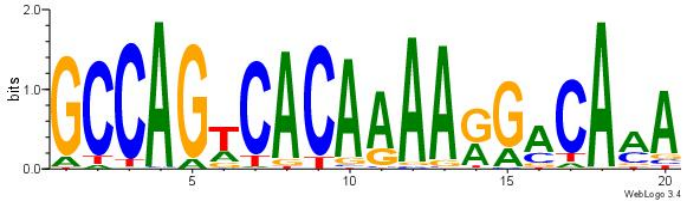

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

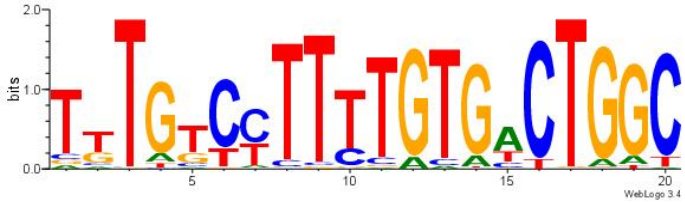

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.150577

Alignment:
CCTAGATTTCAGARGATGT
CCTTGGCCAGCCCAGAAAG

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

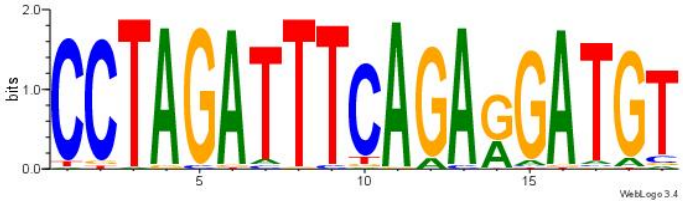

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

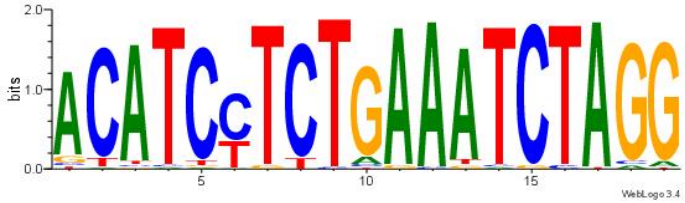

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.150726

Alignment:
CAACATGGATGRARCTGGAG
-CTTTCTGGGCTGGCCAAGG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

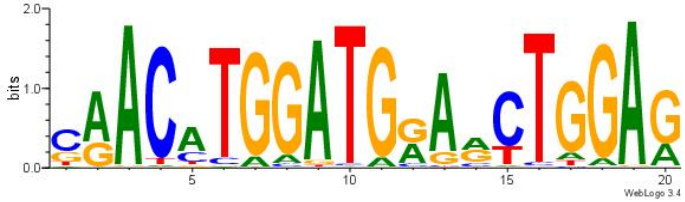

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

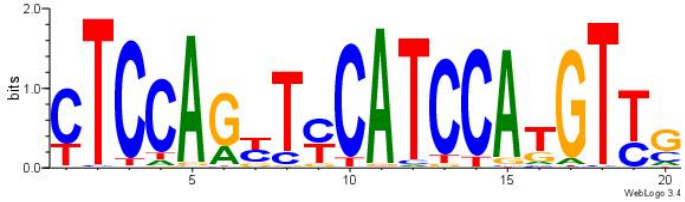

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.15077

Alignment:
GGTGCCCCTCTGGGACRAA
CTTTCTGGGCTGGCCAAGG

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

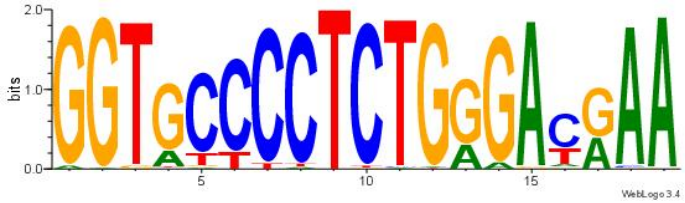

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

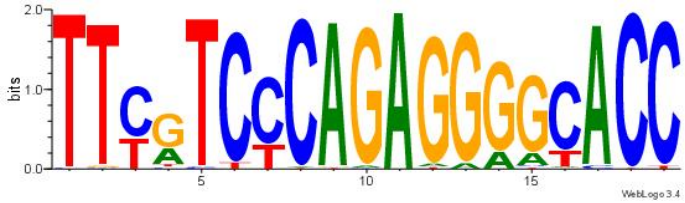

Dataset #: 1 Motif ID: 123 Motif name: Motif 123

Original motif Consensus sequence: AGCAGTCTGAG

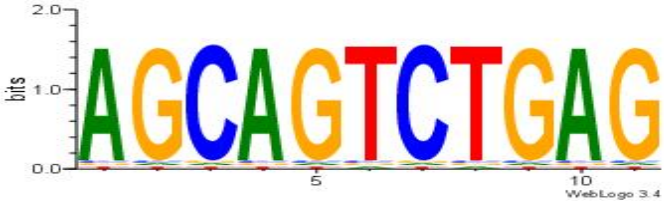

Reverse complement motif Consensus sequence: CTCAGACTGCT

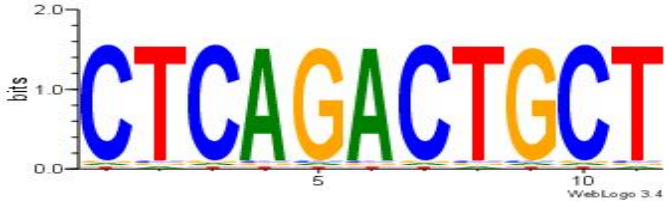

Best Matches for Motif ID 123 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0598949

Alignment:

TMGGGAGGCTGAGGCAGGAG
-------AGCAGTCTGAG--

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

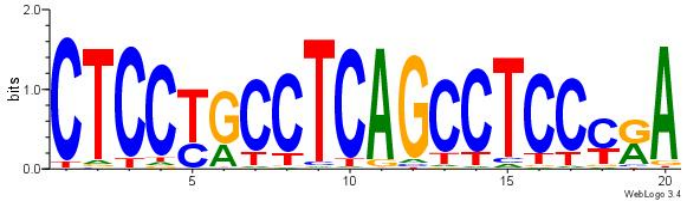

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

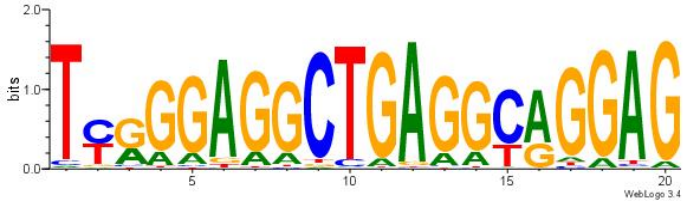

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0609349

Alignment:
AGCTCMKCCTCCTGTCAGAT
--CTCAGACTGCT-------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

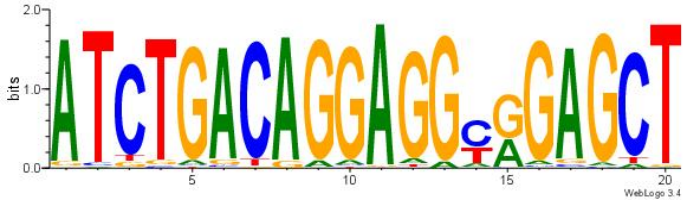

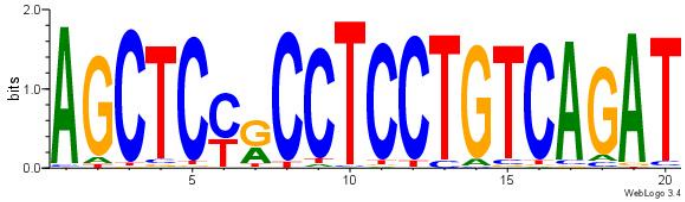

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0631275

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-AGCAGTCTGAG--------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

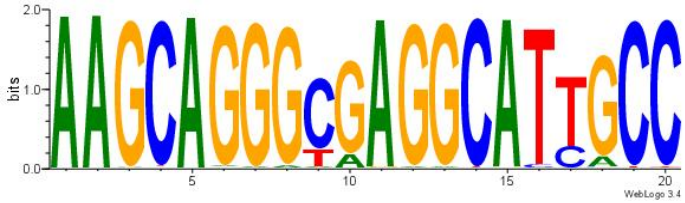

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

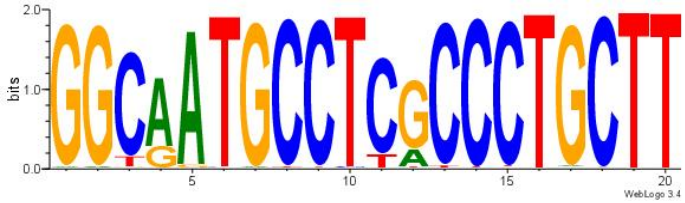

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0649018

Alignment:

```
CACCAGACTCAGGAGCCCAG
--------AGCAGTCTGAG-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

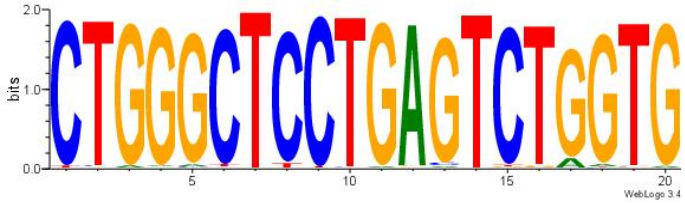

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

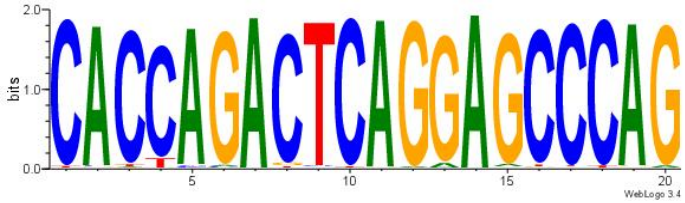

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0650683

Alignment:
GCTGCARTCTCGGCACTTT
--AGCAGTCTGAG------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

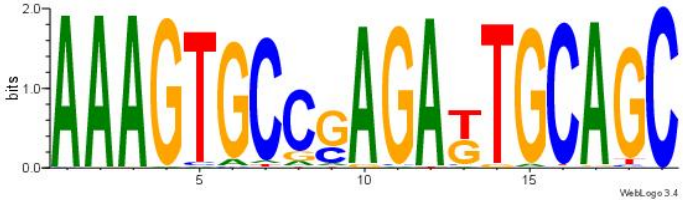

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

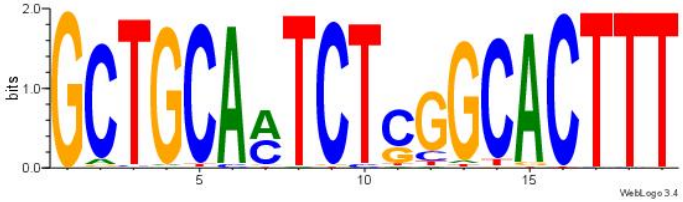

Dataset #: 1
Motif ID: 128
Motif name: Motif 128
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0653347

Alignment:
CMGCTCCGAGTGCGG
---CTCAGACTGCT-

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

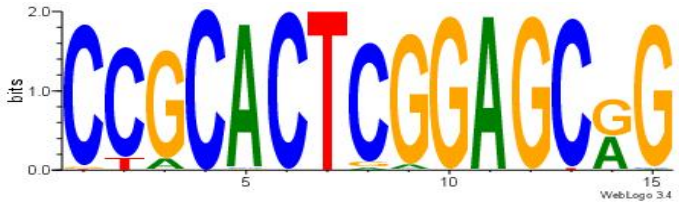

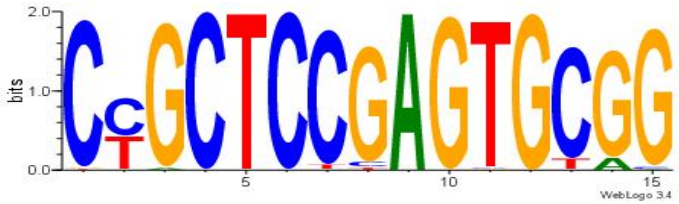

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0672106

Alignment:

```
TACCTGAGACTGGGTAATTT
---CTCAGACTGCT------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

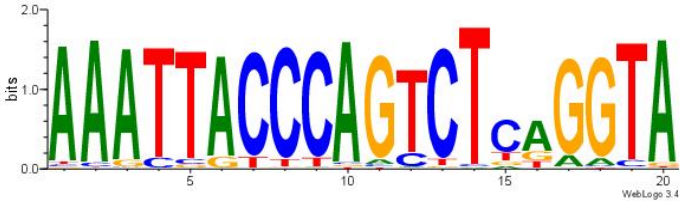

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

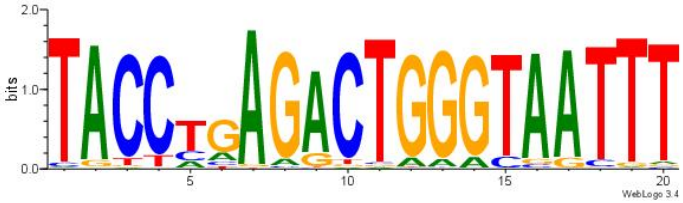

Dataset #: 1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0684817

Alignment:

```
ATGGCCTATGACYGSTTTG
-----CTCAGACTGCT---
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

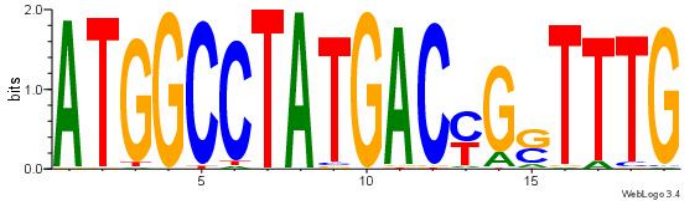

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

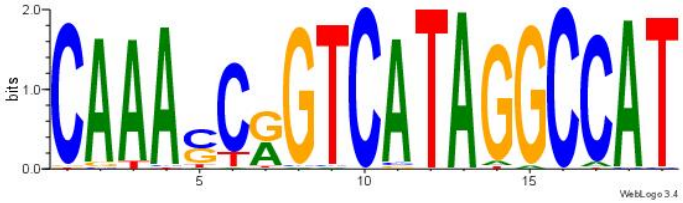

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0699921

Alignment:
ACTCAGCCCRCCTGCACCC
-CTCAGACTGCT-------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

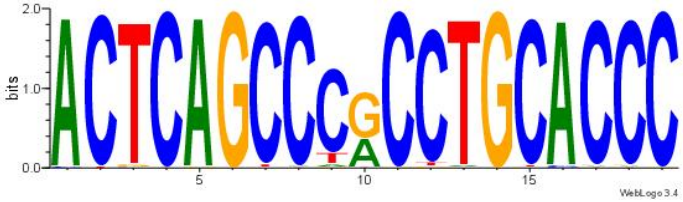

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

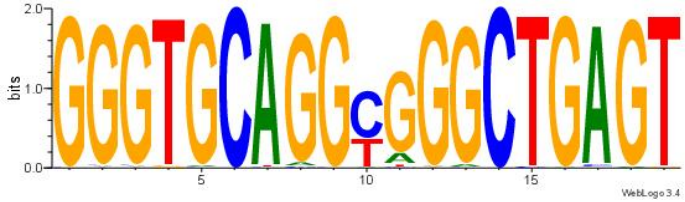

Dataset #: 1
Motif ID: 47
Motif name: Motif 47
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0737589

Alignment:
MGGAAACTGAGGC
--AGCAGTCTGAG

Original motif Consensus sequence: GCCTCAGTTTCCY

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

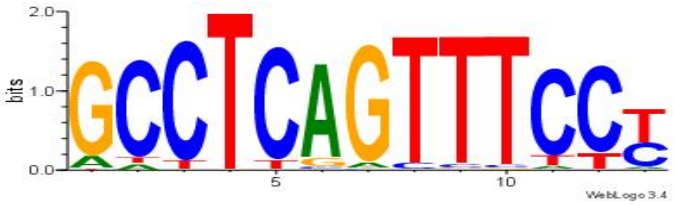

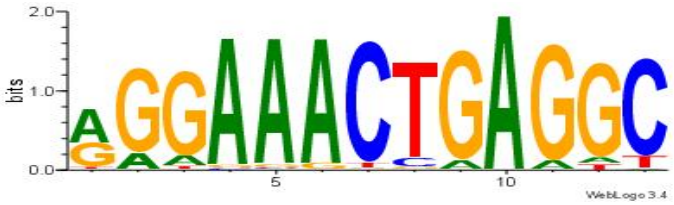

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0742826

Alignment:

```
AGTGTTTCCAAMCTGCT
------CTCAGACTGCT
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

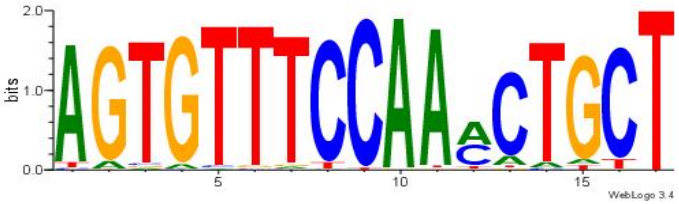

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

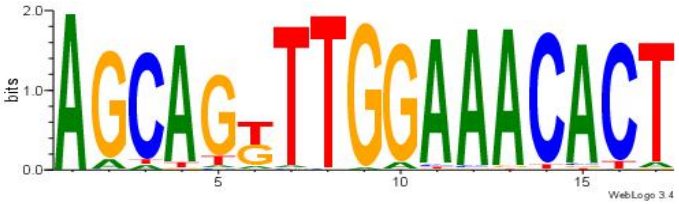

Dataset #:	1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0742829

Alignment:

```
AGACCAGCCTGGCCAAC
--AGCAGTCTGAG----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

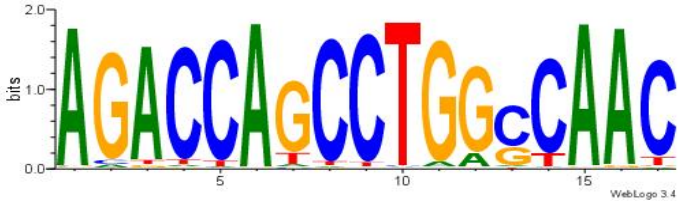

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

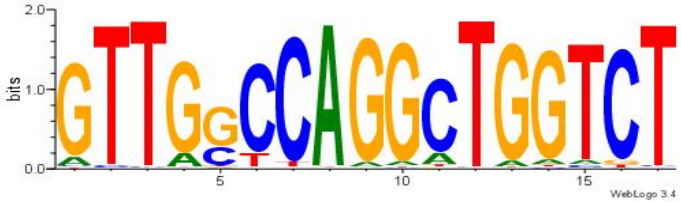

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0767698

Alignment:
CCCYAATACTGCGCTTTTC
--CTCAGACTGCT------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

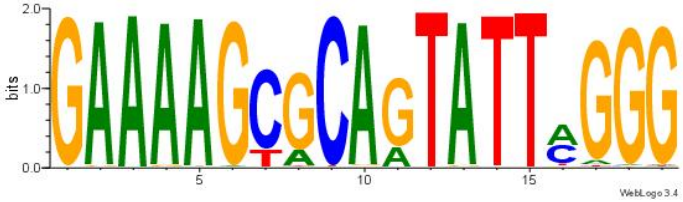

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

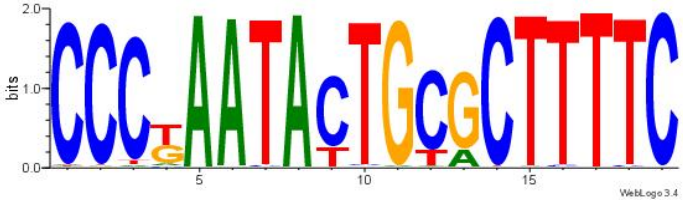

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0794812

Alignment:
AAGCTCGAACTGGGTGGAGC
---CTCAGACTGCT------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

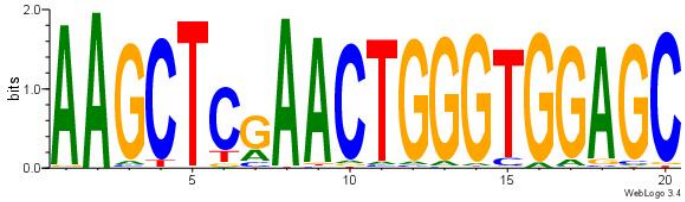

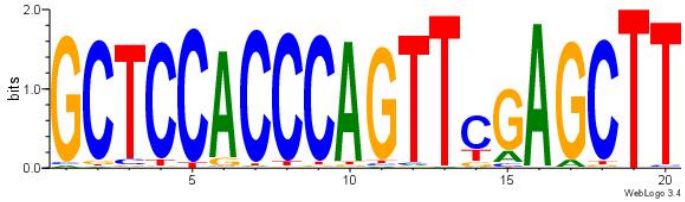

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0808007

Alignment:

```
CTCACAGAGTTAAA
CTCAGACTGCT---
```

Original motif Consensus sequence: CTCACAGAGTTAAA

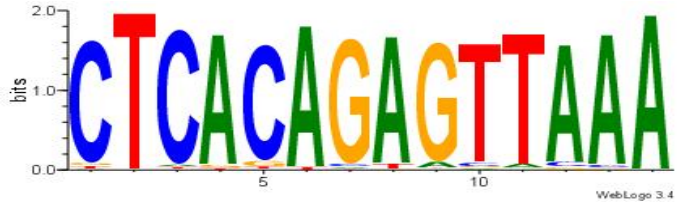

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

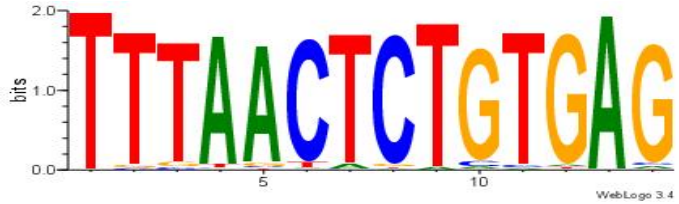

Dataset #:	1
Motif ID:	48

Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0812853

Alignment:

```
AGCTCCCAGCGTGAGCGACG
----AGCAGTCTGAG-----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

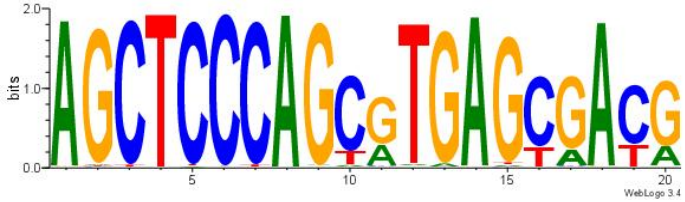

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

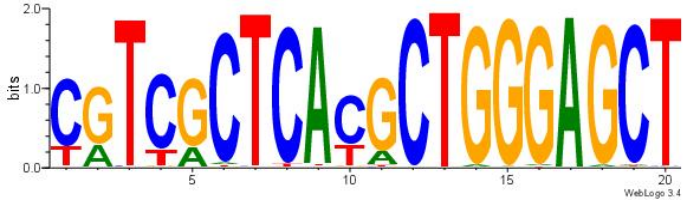

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0820669

Alignment:
AAAATCACAAGCATTCCTAT
---------AGCAGTCTGAG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

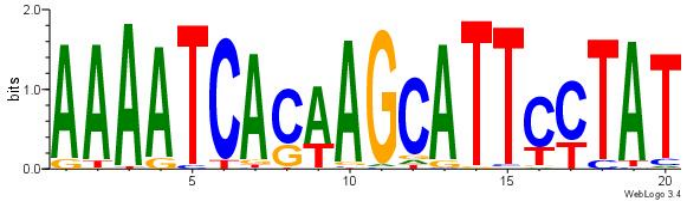

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

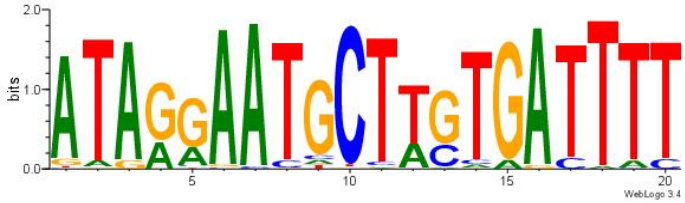

Dataset #:	1
Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0824372

Alignment:
TACTCMGGAGGCT
--CTCAGACTGCT

Original motif Consensus sequence: AGCCTCCYGAGTA

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

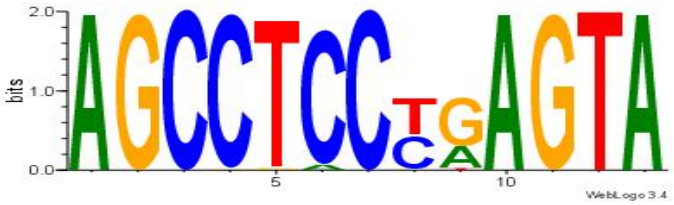

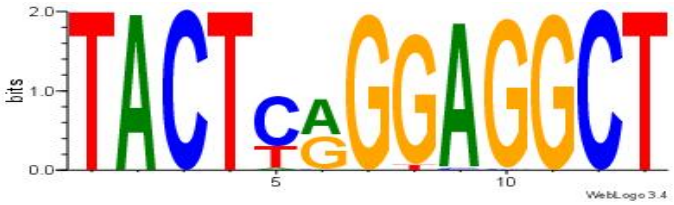

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0828059

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-AGCAGTCTGAG--------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

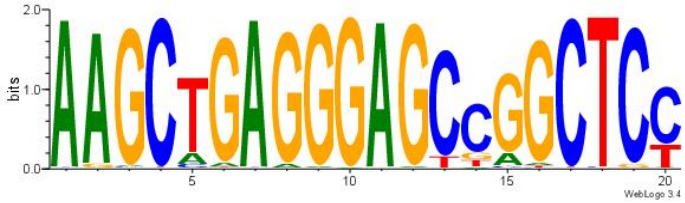

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

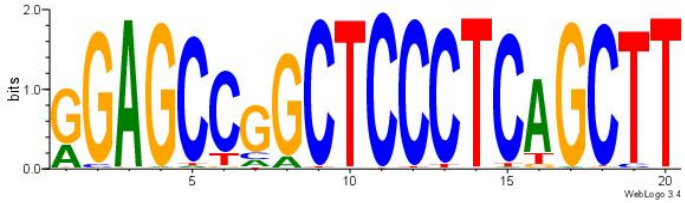

Dataset #: 1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0833224

Alignment:

```
CCTTTGACTCCATGTC
-CTCAGACTGCT----
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

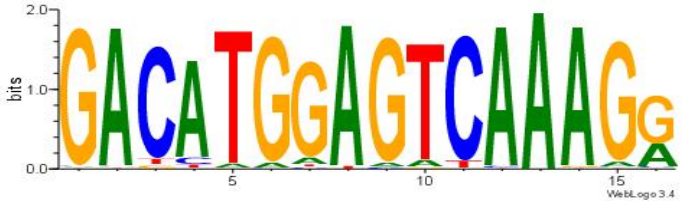

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

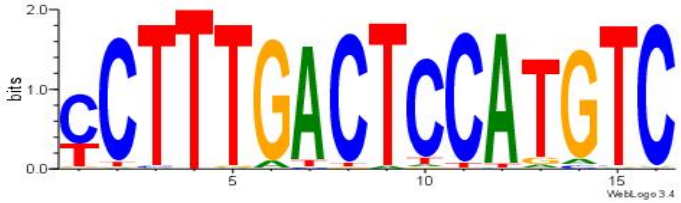

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0833461

Alignment:
CACCTCCCAGACMGGGT
-----CTCAGACTGCT-

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

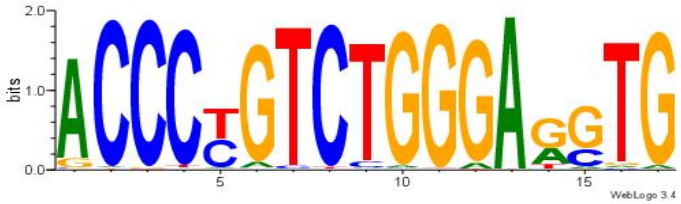

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

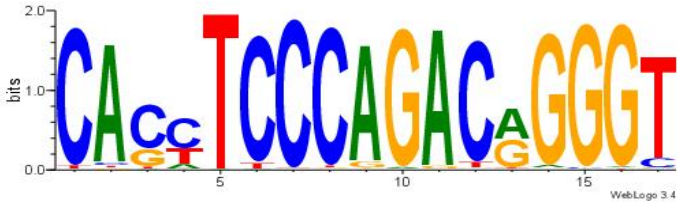

Dataset #: 1
Motif ID: 27
Motif name: Motif 27
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0836894

Alignment:
CGCCCCGTCTGGGAAGTG
-----AGCAGTCTGAG--

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

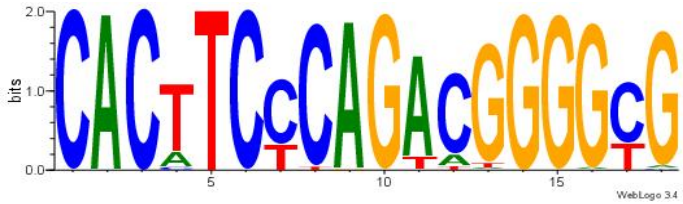

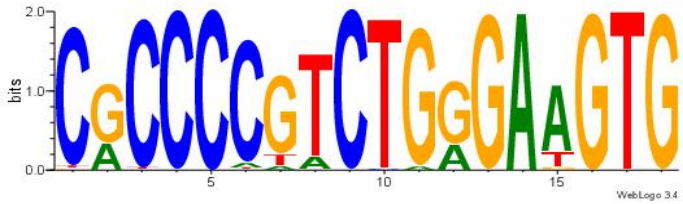

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0839029

Alignment:

```
AGGACTGAGGGTGCCYRGGG
----CTCAGACTGCT-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

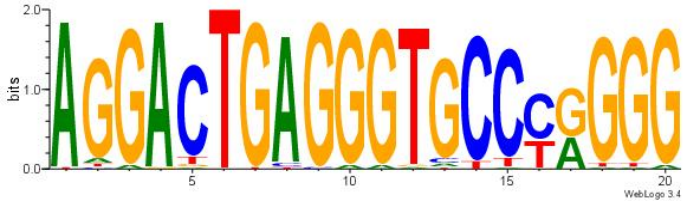

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

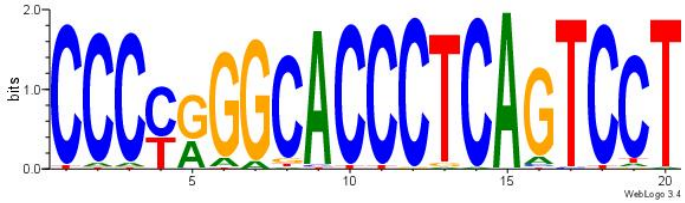

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0842094

Alignment:

```
ATCATTCTTATGCCTTTG
AGCAGTCTGAG-------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

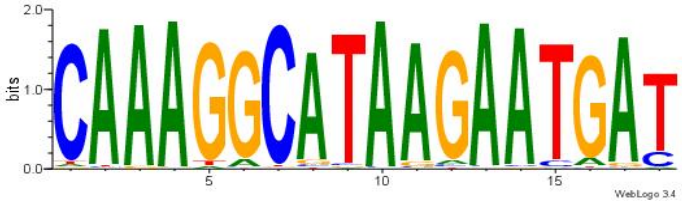

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

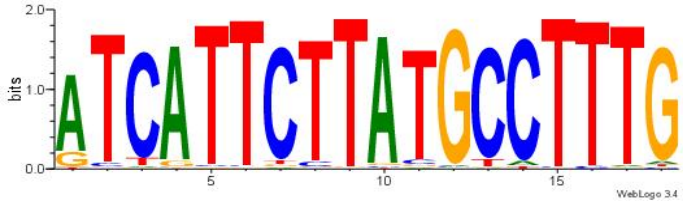

Dataset #:	1
Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0843077

Alignment:
ACCCCGTCTGGGA
-AGCAGTCTGAG-

Original motif Consensus sequence: ACCCCGTCTGGGA

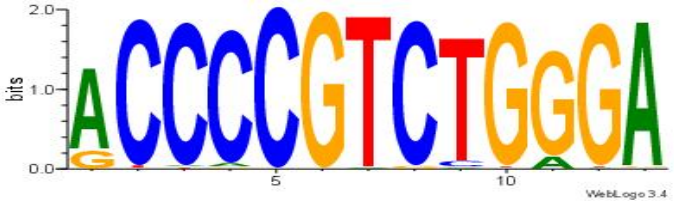

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

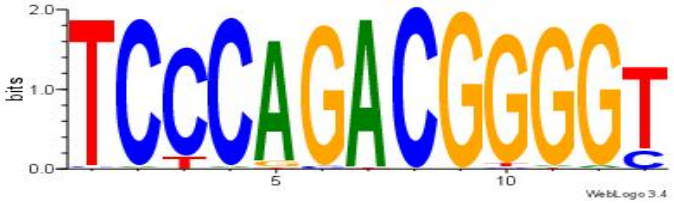

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.085103

Alignment:
AGATGCCAGCCAGAGCTCT
----AGCAGTCTGAG----

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

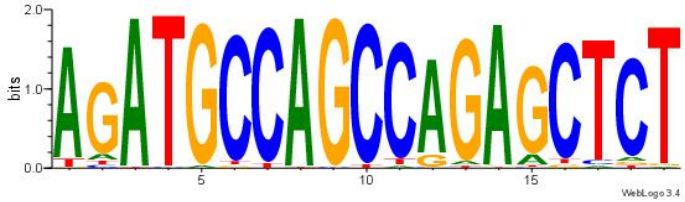

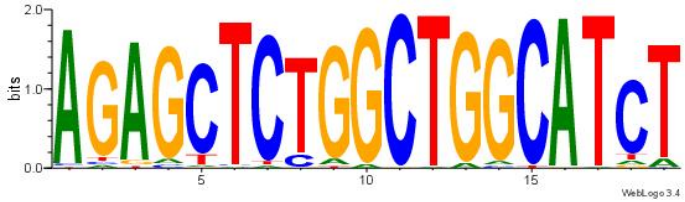

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0854112

Alignment:

```
GAATCCTGGGACAGCCTGT
-----CTCAGACTGCT---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

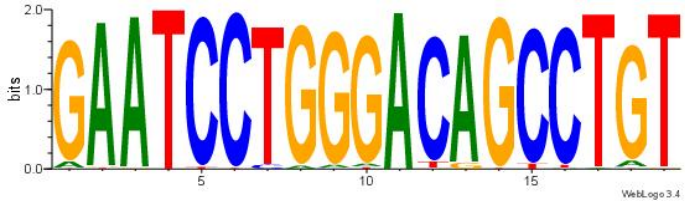

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

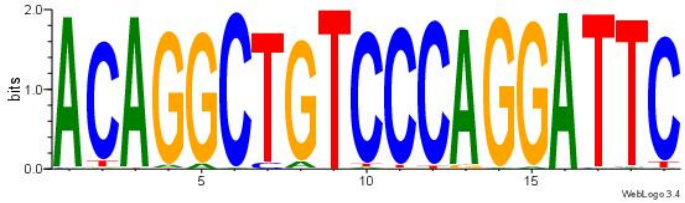

Dataset #:	1

Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0856577

Alignment:

```
CCCCGGGCAGTGAGGG
-----AGCAGTCTGAG
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

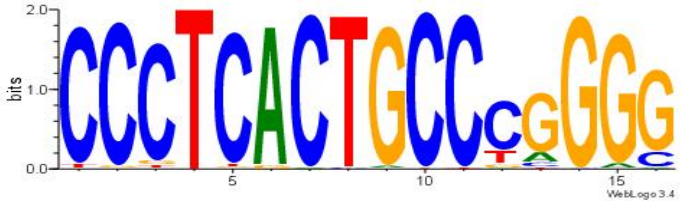

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

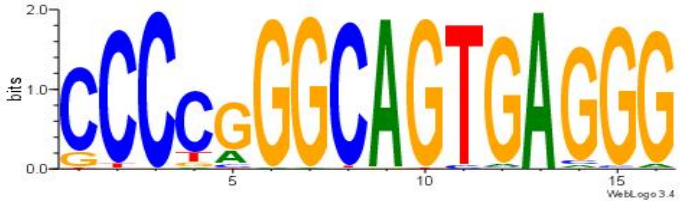

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0858764

Alignment:
GGTGGAGCTGCCTGCCAGTC
----AGCAGTCTGAG-----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

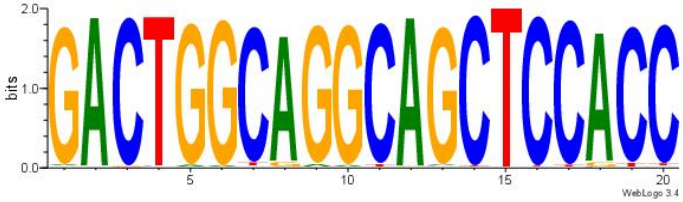

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

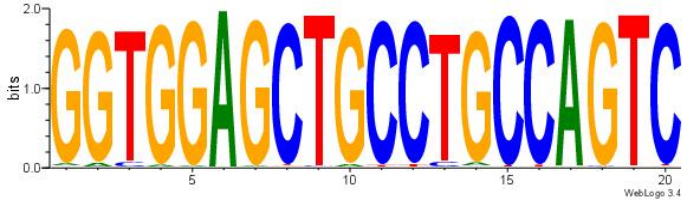

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0864021

Alignment:
ATGATCCAGCAATYCCACTH
-------AGCAGTCTGAG--

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

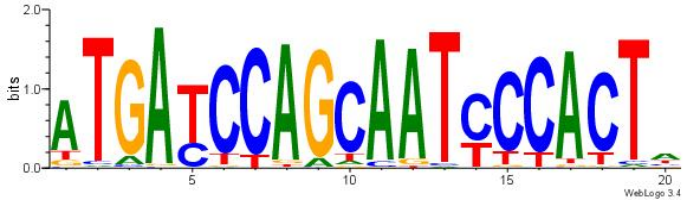

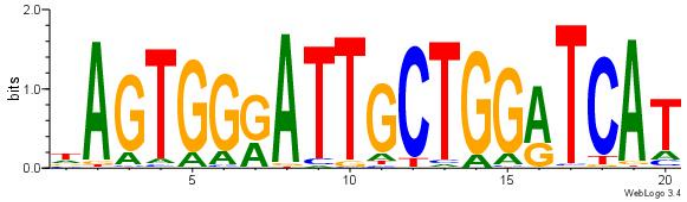

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0867978

Alignment:

```
CCGCTGCACTGTGGGAGCCC
----AGCAGTCTGAG-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

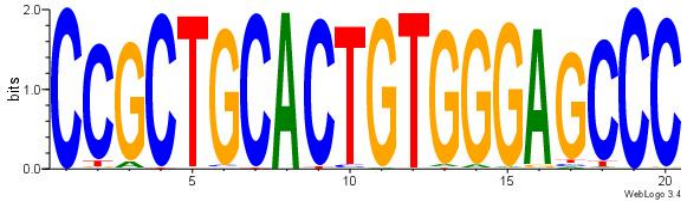

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

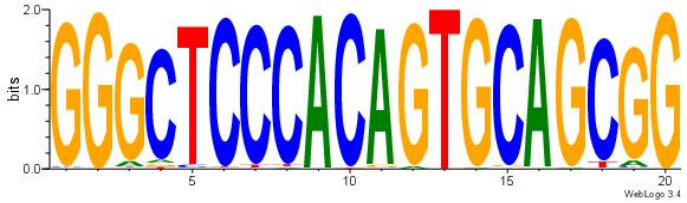

Dataset #: 1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0871317

Alignment:

```
CAAGGTCTGATTGTW
----CTCAGACTGCT
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

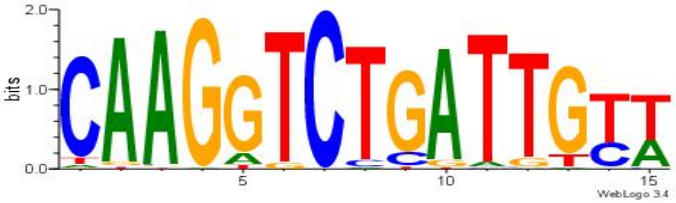

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0871534

Alignment:
AGCTGTGAGAAGAGGGCCAC
AGCAGTCTGAG---------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

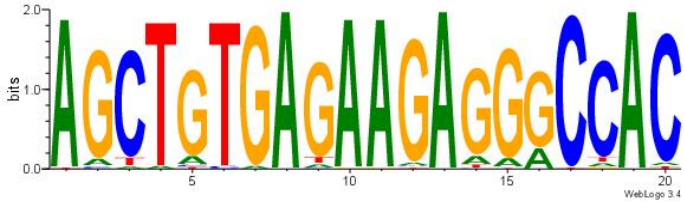

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

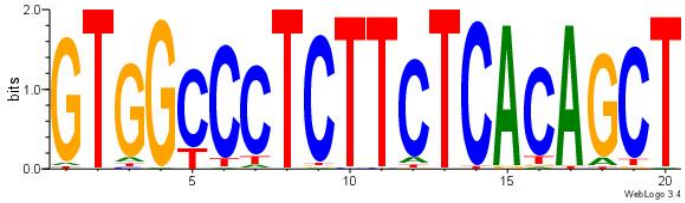

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0876263

Alignment:
CAGGCGGCTGGGAG
-AGCAGTCTGAG--

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

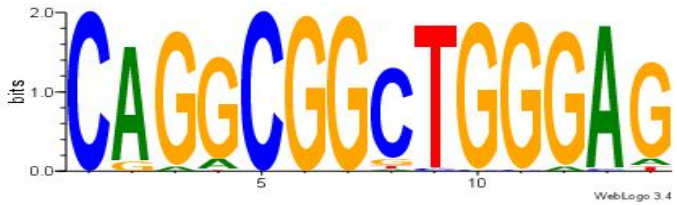

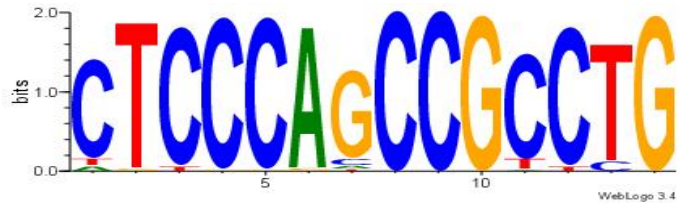

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0882272

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--------CTCAGACTGCT
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

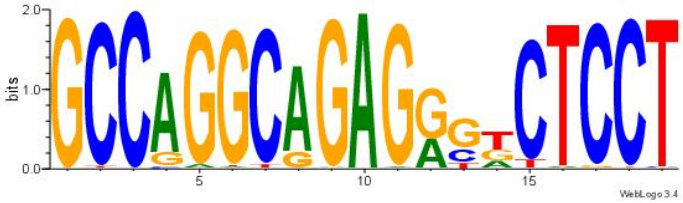

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

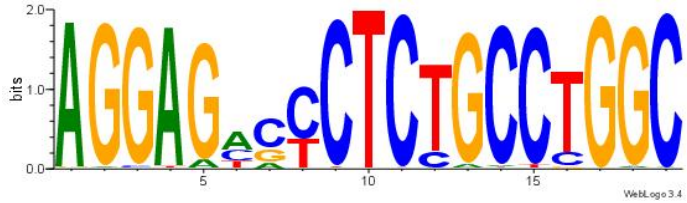

Dataset #: 1

Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0884653

Alignment:

```
VCCDCCTCCKCCTCCTC
-----CTCAGACTGCT-
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

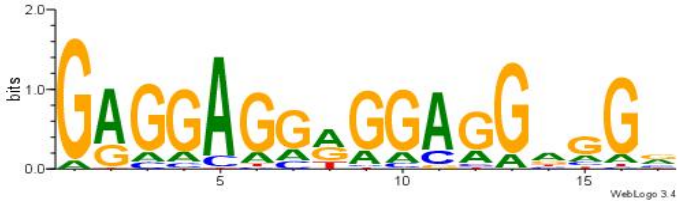

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

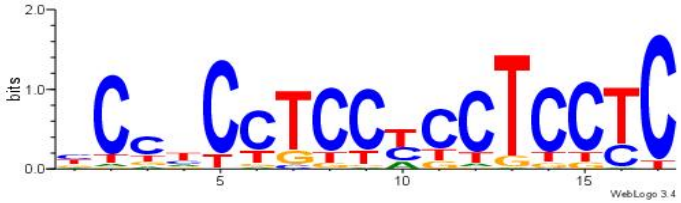

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0887189

Alignment:
TGCCCAGTCTGGAAAGTG
--AGCAGTCTGAG-----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

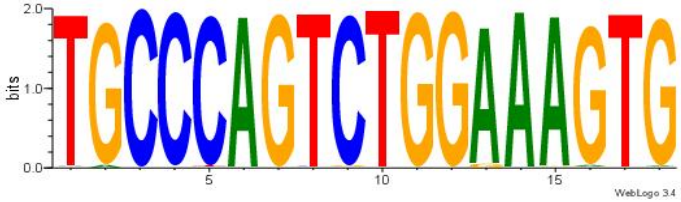

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

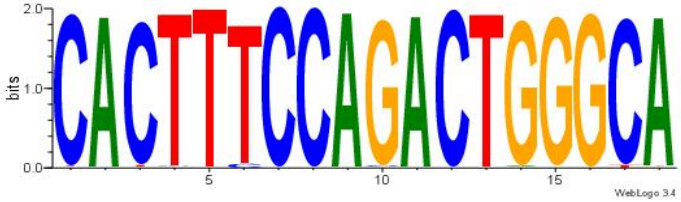

Dataset #: 1
Motif ID: 163
Motif name: Motif 163
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0899772

Alignment:
CCTCCGTGGGCTCC
-CTCAGACTGCT--

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

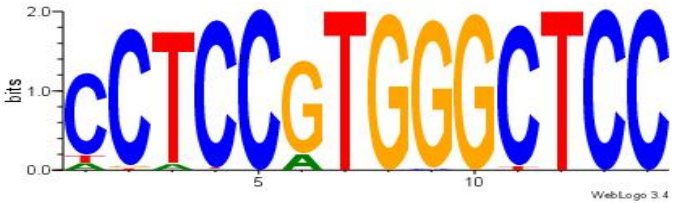

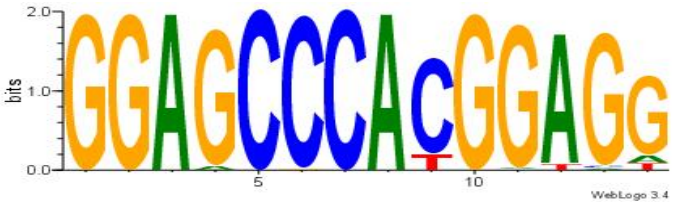

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.090135

Alignment:

```
CCAAGACYCCAGAC
CTCAGACTGCT---
```

Original motif Consensus sequence: CCAAGACYCCAGAC

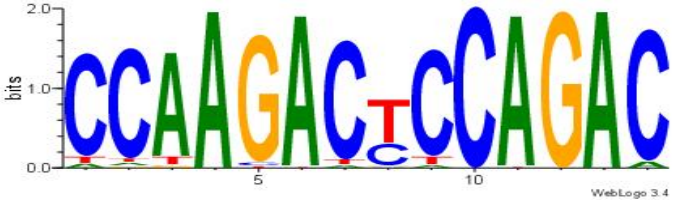

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

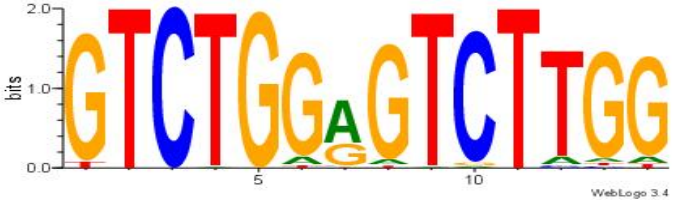

Dataset #:	1
Motif ID:	261

Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0914327

Alignment:

```
ATCTCASAAATCACCACTA
--CTCAGACTGCT------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

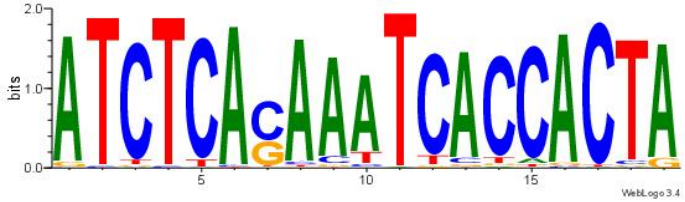

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

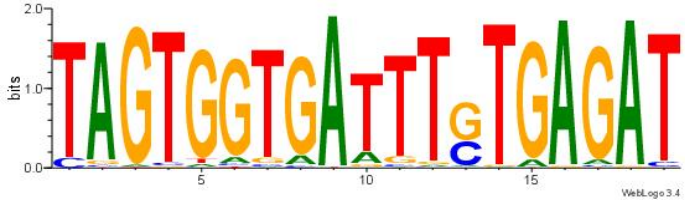

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0920815

Alignment:
CCTAGATTTCAGARGATGT
---AGCAGTCTGAG-----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

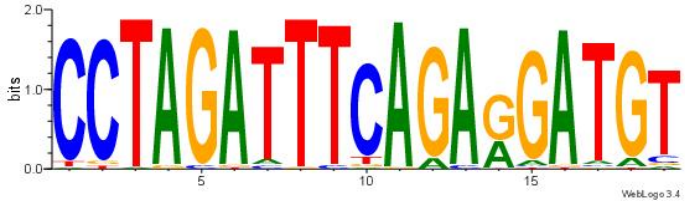

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

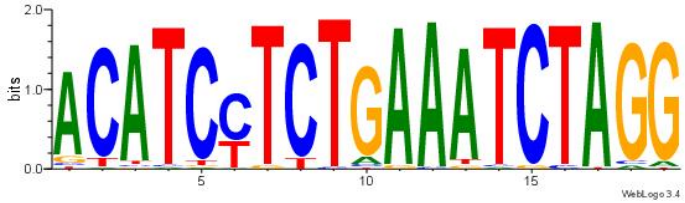

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0924605

Alignment:
CCTMACAATCATGG
-CTCAGACTGCT--

Original motif Consensus sequence: CCATGATTGTRAGG

Reverse complement motif Consensus sequence: CCTMACAATCATG

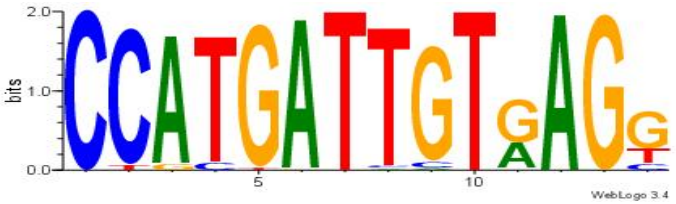

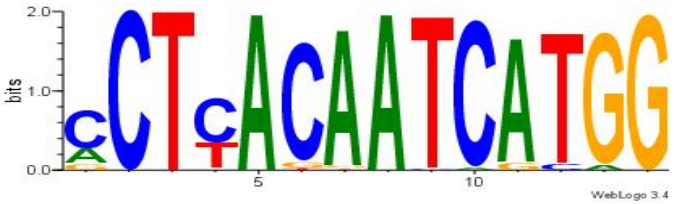

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.092528

Alignment:

```
CCTCCCAGCCGCCT
---CTCAGACTGCT
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

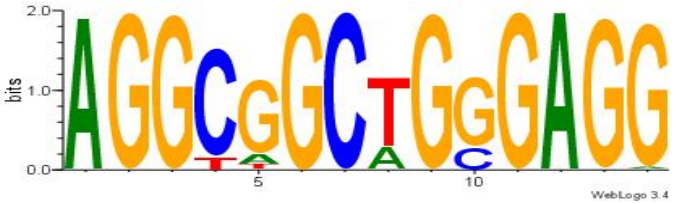

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	25

Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0943265

Alignment:

```
CATTTCCAWCTGAGGTAC
---AGCAGTCTGAG----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

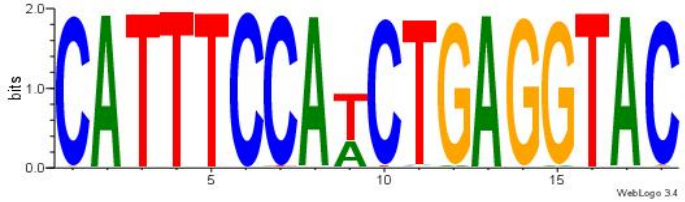

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

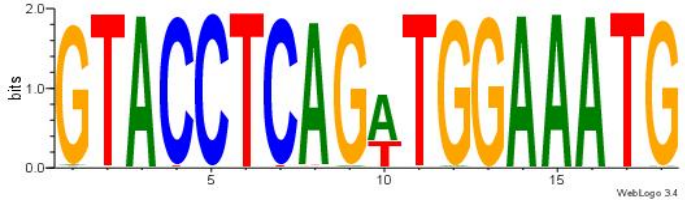

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0947685

Alignment:
CCTGTAATCCCAGC
-AGCAGTCTGAG--

Original motif Consensus sequence: GCTGGGATTACAGG

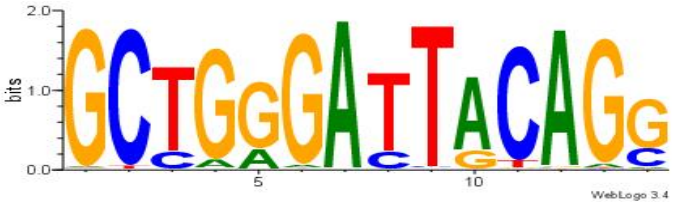

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0948208

Alignment:
GAAHCAACCKAAKTGTCCAT
-------AGCAGTCTGAG--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

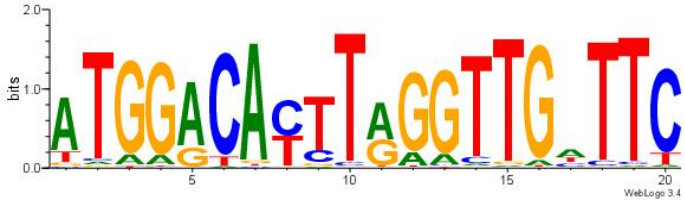

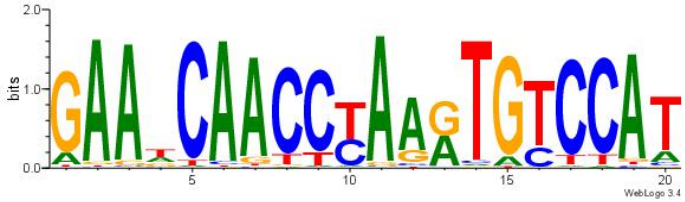

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0948551

Alignment:

```
TTGAGGAGGCAGTCTG
---AGCAGTCTGAG--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

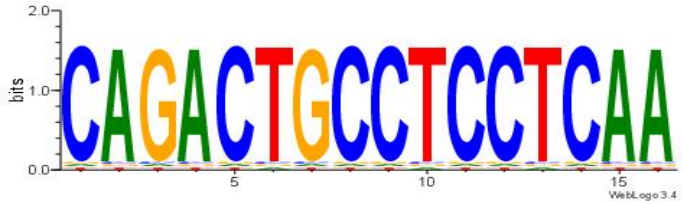

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

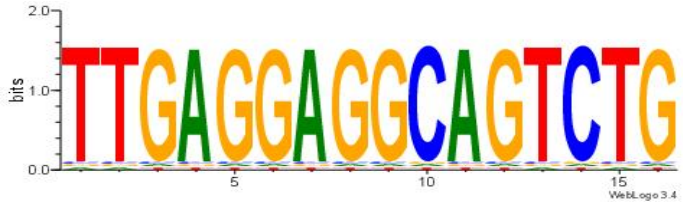

Dataset #: 1

Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0948551

Alignment:

```
CTGGGATTACA
CTCAGACTGCT
```

Original motif Consensus sequence: CTGGGATTACA

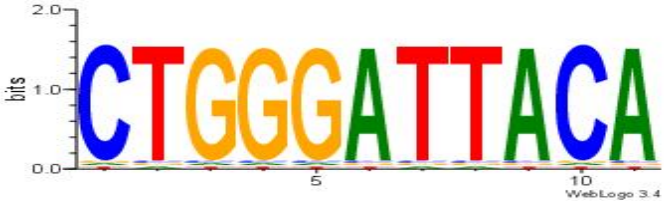

Reverse complement motif Consensus sequence: TGTAATCCCAG

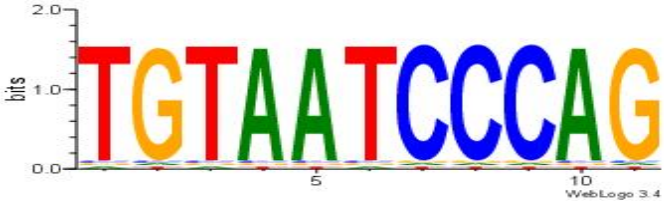

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.094906

Alignment:
CTGGGCRACAGAGYRAGACY
------AGCAGTCTGAG---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

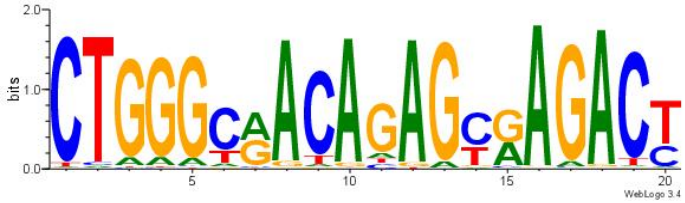

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

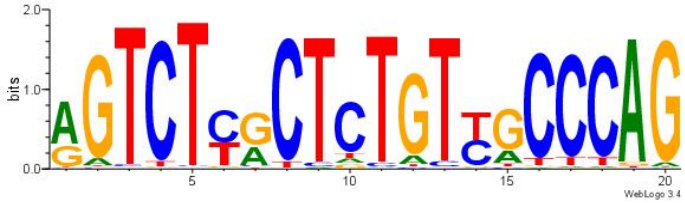

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0955306

Alignment:
AACAACASACACTGGGGCCT
-----CTCAGACTGCT----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

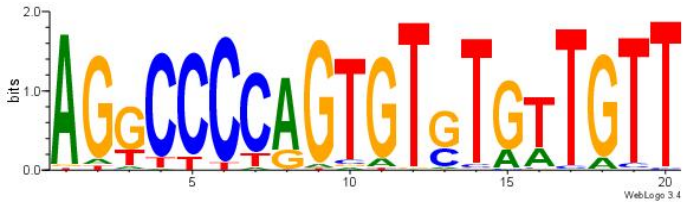

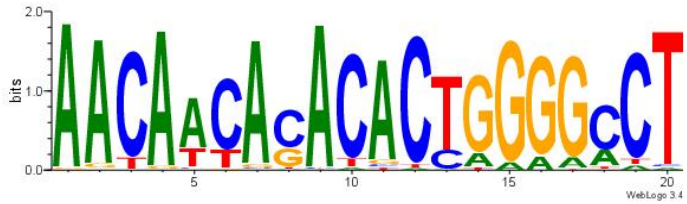

Dataset #: 1 Motif ID: 124 Motif name: Motif 124

Original motif Consensus sequence: AAAATAAAA

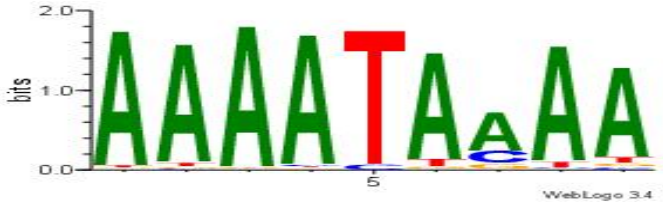

Reverse complement motif Consensus sequence: TTTTATTTT

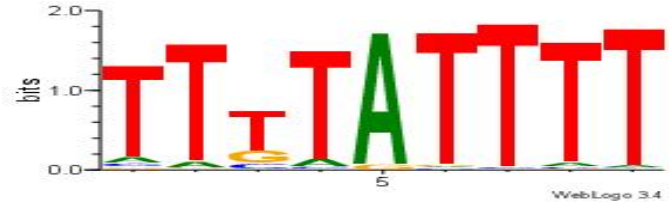

Best Matches for Motif ID 124 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.021153

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
----------AAAATAAAA-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

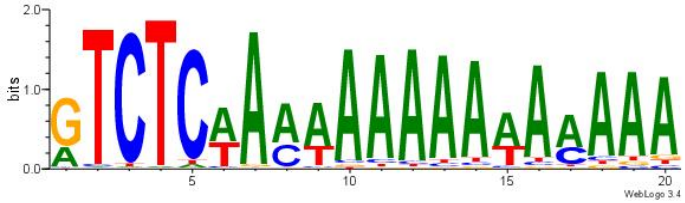

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

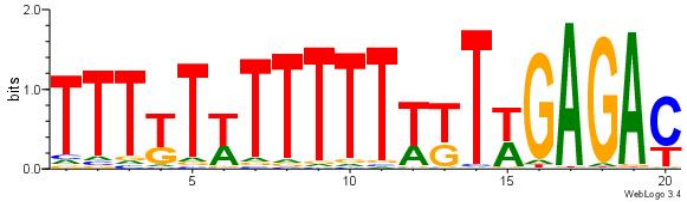

Dataset #:	1
Motif ID:	337
Motif name:	Motif 337
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0464816

Alignment:

```
TTTCTAGTTT
-TTTTATTTT
```

Original motif Consensus sequence: AAACTAGAAA

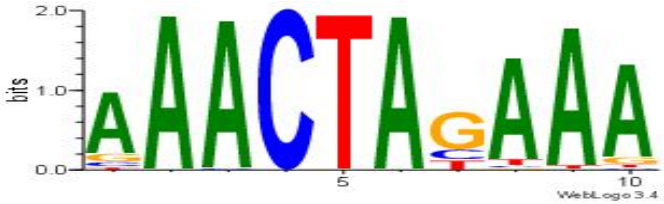

Reverse complement motif Consensus sequence: TTTCTAGTTT

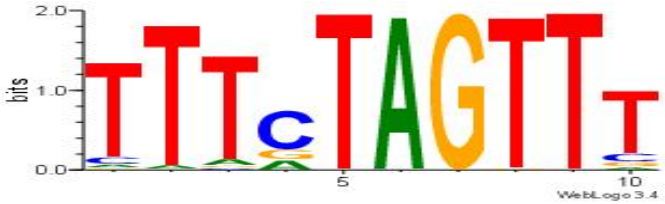

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0522862

Alignment:

```
KACATTGATTTTGTATC
---TTTTATTTT-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

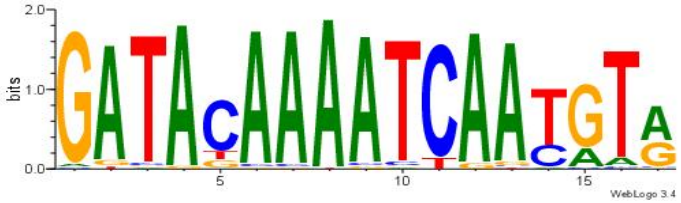

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

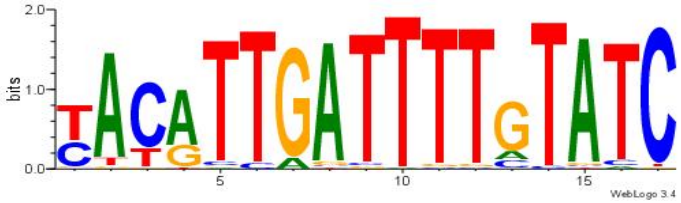

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 9
Similarity score: 0.0560355

Alignment:
AAAYAAAAAAA
-AAAATAAAA-

Original motif Consensus sequence: AAAYAAAAAAA

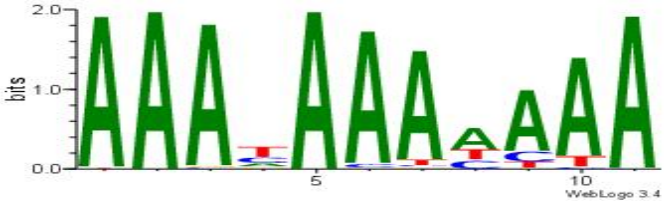

Reverse complement motif Consensus sequence: TTTTTTTMTTT

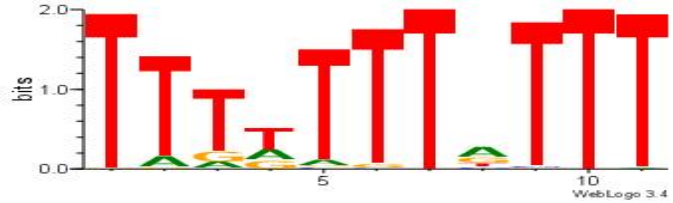

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0620817

Alignment:
ATAGGAATGCTTGTGATTTT
-----------TTTTATTTT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

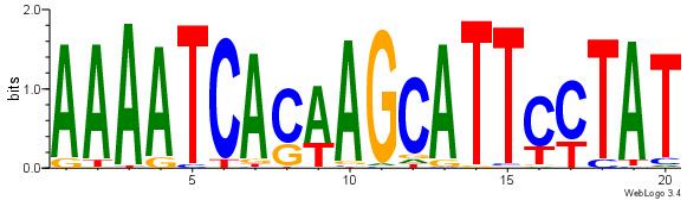

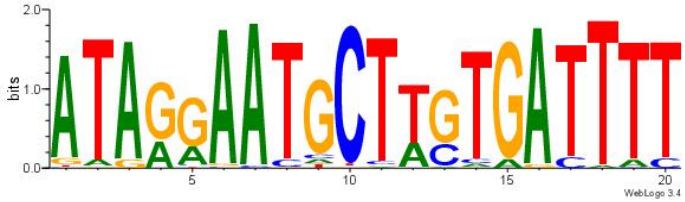

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0642345

Alignment:

```
TTYTTGTTGTTGTTGTT
-TTTTATTTT-------
```

Original motif Consensus sequence: AACAACAACAACAAMAA

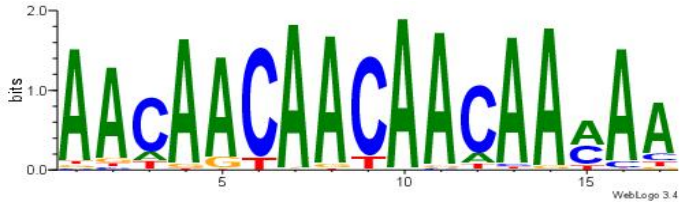

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

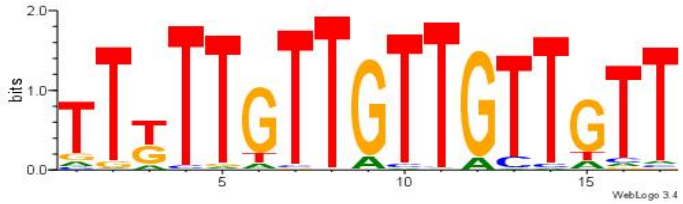

Dataset #:	1

Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0688524

Alignment:

```
CAGTCTGTGTCTTTTAATT
------TTTTATTTT----
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

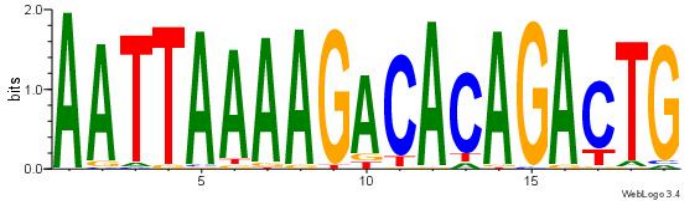

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

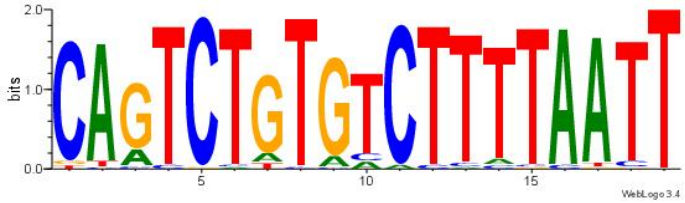

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9

Similarity score: 0.0691995

Alignment:
CAAACTGCAAG
-AAAATAAAA-

Original motif Consensus sequence: CAAACTGCAAG

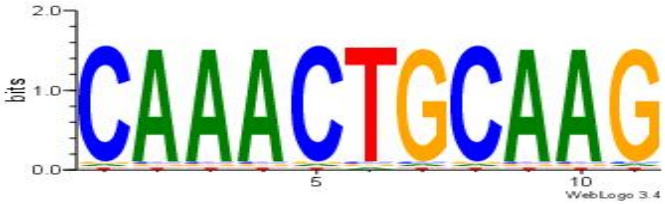

Reverse complement motif Consensus sequence: CTTGCAGTTTG

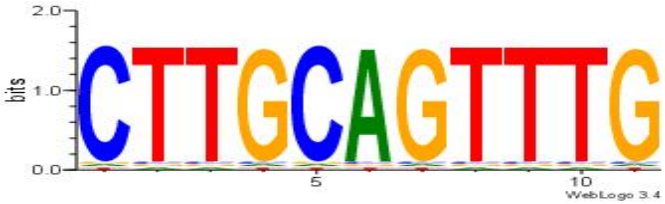

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 9
Similarity score: 0.0693595

Alignment:
TAATTTTATGTGTCAACTTG
---TTTTATTTT--------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

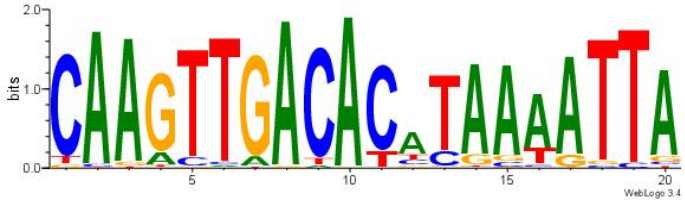

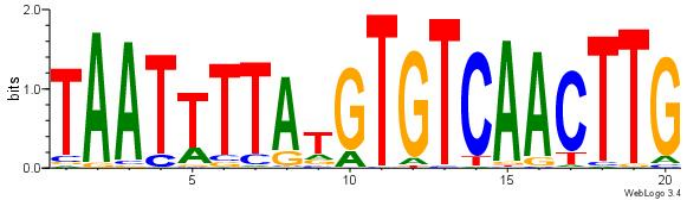

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0701426

Alignment:

```
TYTGTCMTTTTGTGACTGGC
--TTTTATTTT---------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

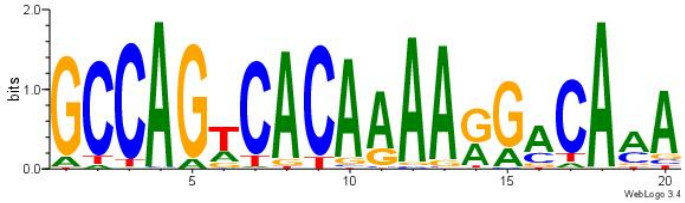

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

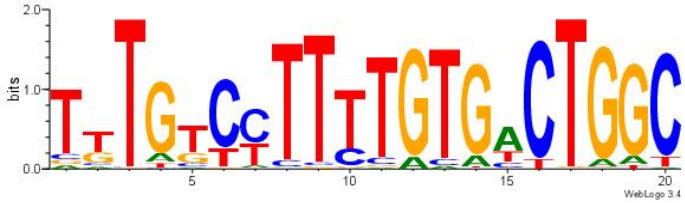

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0705708

Alignment:

```
GTTGTGAGGATTAAATGAG
----AAAATAAAA------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

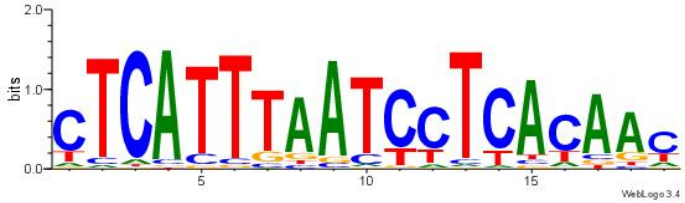

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

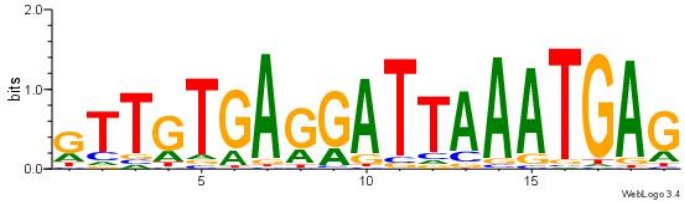

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9

Similarity score: 0.0713452

Alignment:
ACCCAATWTGTAGTCTTTTA
----------TTTTATTTT-

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

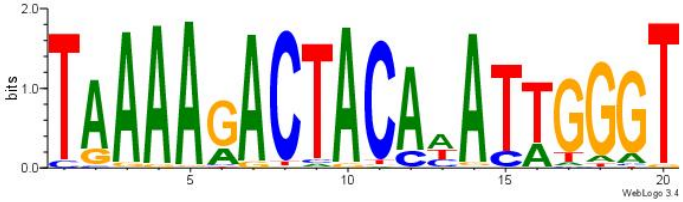

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

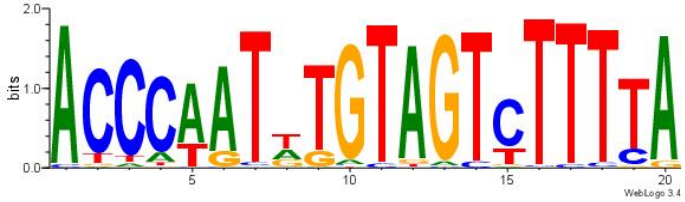

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0751064

Alignment:
TCCTATGAGAATCTAATG
-------AAAATAAAA--

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

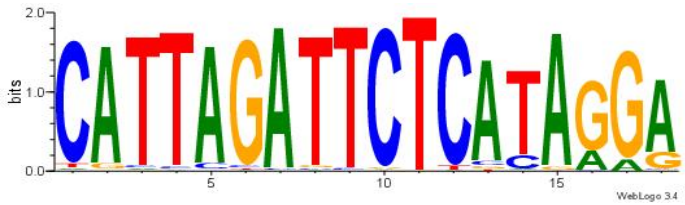

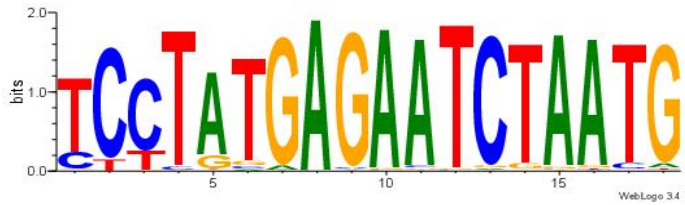

Dataset #:	1
Motif ID:	130
Motif name:	Motif 130
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0760414

Alignment:

```
ATTATTATYAT
--TTTTATTTT
```

Original motif Consensus sequence: ATTATTATYAT

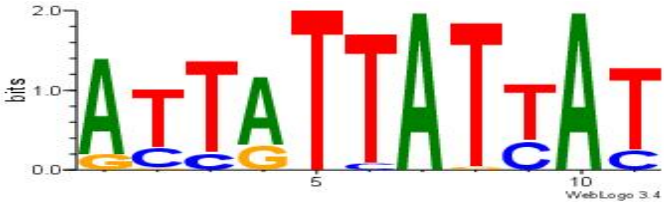

Reverse complement motif Consensus sequence: ATMATAATAAT

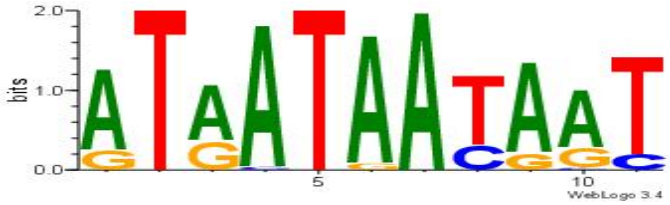

Dataset #:	1
Motif ID:	232

Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0762613

Alignment:

```
AAGTCTCCCAATTACAACT
--------AAAATAAAA--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

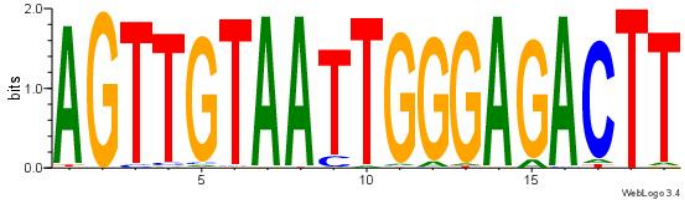

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

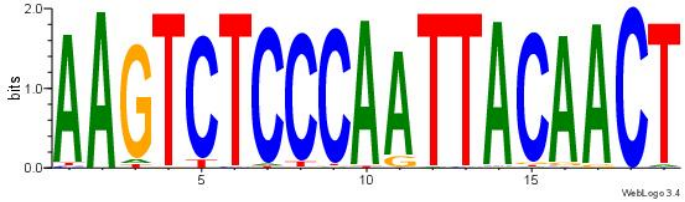

Dataset #:	1
Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0775104

Alignment:
TTCTGTTTCT
TTTTATTTT-

Original motif Consensus sequence: AGAAACAGAA

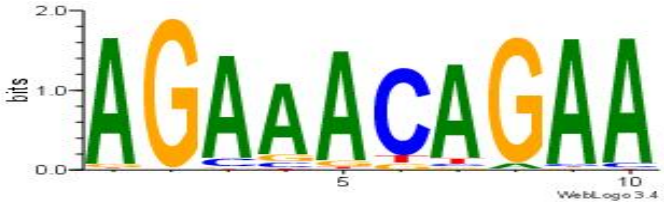

Reverse complement motif Consensus sequence: TTCTGTTTCT

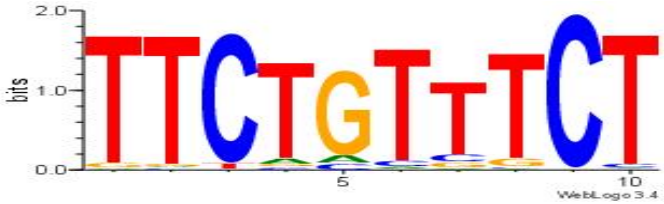

Dataset #:	1
Motif ID:	181
Motif name:	Motif 181
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0799723

Alignment:
ATTTGCATTT
-TTTTATTTT

Original motif Consensus sequence: AAATGCAAAT

Reverse complement motif Consensus sequence: ATTTGCATTT

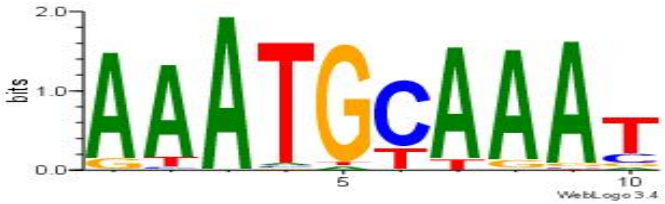

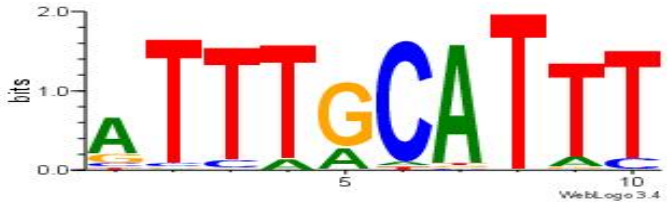

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0802944

Alignment:

```
ATTGGTGTATTTACAATCCC
-------TTTTATTTT----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

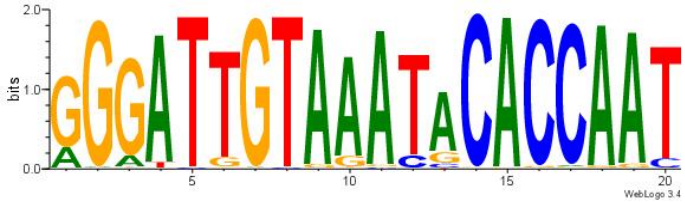

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.080695

Alignment:

```
TGAGKCAATTAAACCTCTT
-----AAAATAAAA-----
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

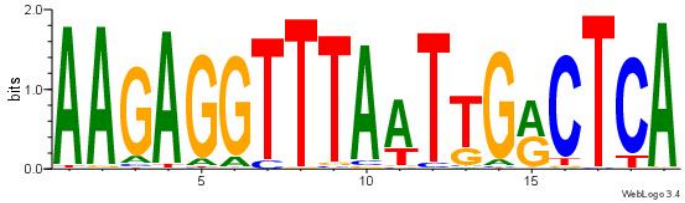

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

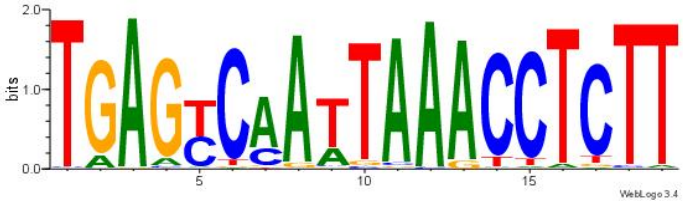

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9

Similarity score: 0.0811511

Alignment:
GTTAACTGTAAAACAGCCT
----AAAATAAAA------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

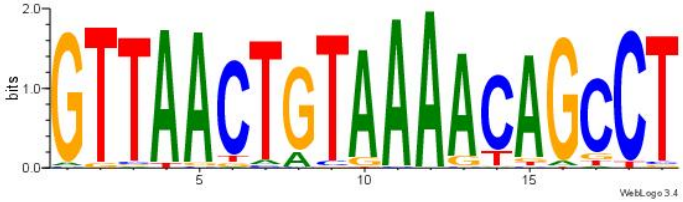

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

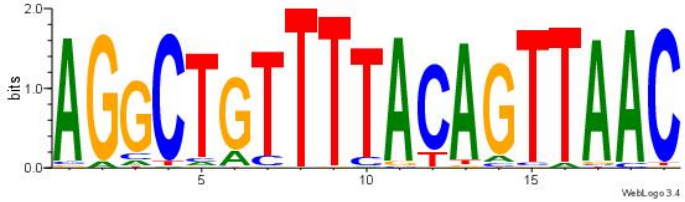

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 9
Similarity score: 0.0812675

Alignment:
TGGAGAACCTTTATGTCTAG
--------TTTTATTTT---

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

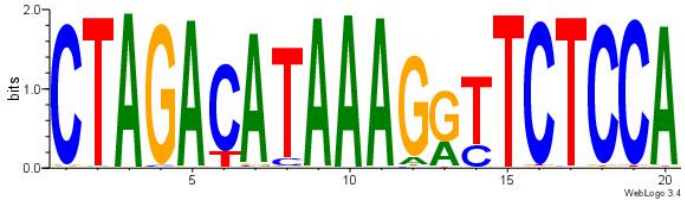

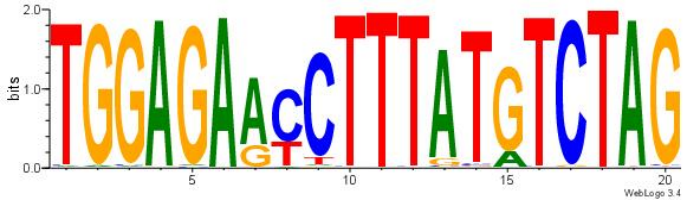

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0814906

Alignment:

```
AAGGAAAAGAAA
---AAAATAAAA
```

Original motif Consensus sequence: AAGGAAAAGAAA

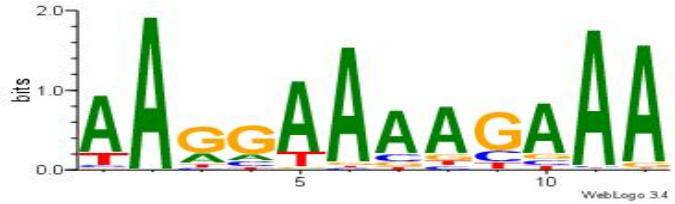

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

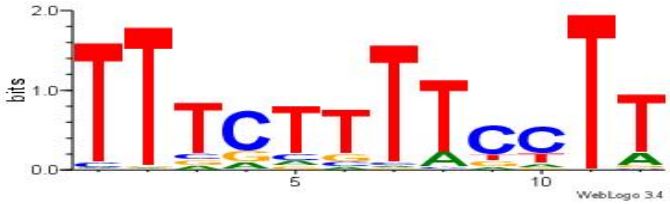

Dataset #:	1
Motif ID:	275

Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0816678

Alignment:

```
CTCACAGAGTTAAA
-----AAAATAAAA
```

Original motif Consensus sequence: CTCACAGAGTTAAA

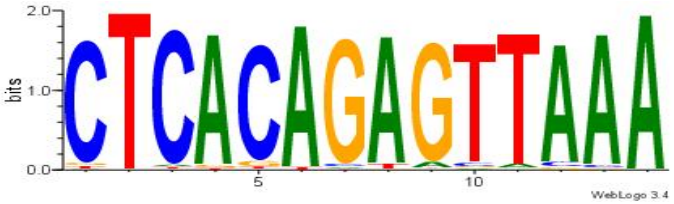

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

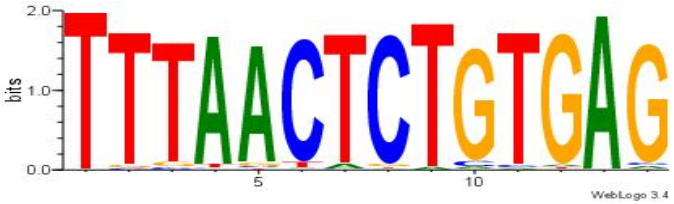

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0824601

Alignment:
AAGTCCAAGATCAAGGTGYY
------AAAATAAAA-----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

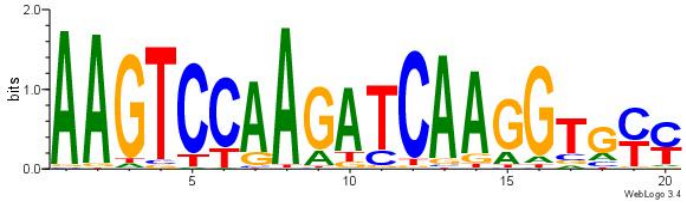

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

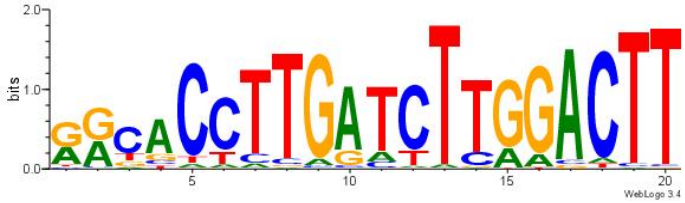

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0824864

Alignment:
AATGAKATCATGTCYTTTGC
---------TTTTATTTT--

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

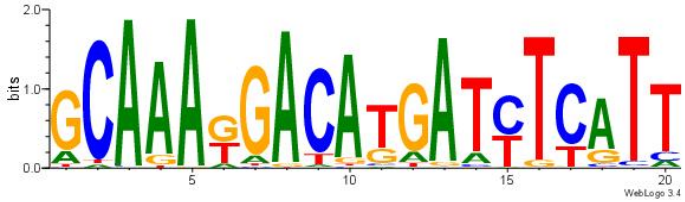

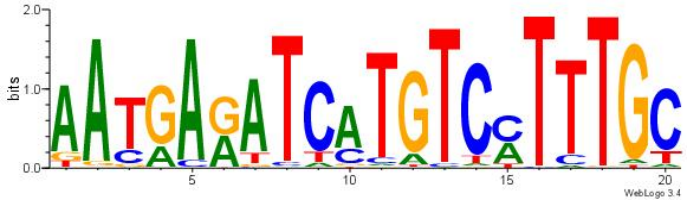

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.085359

Alignment:

```
GAGCTTTAAGATTT
----TTTTATTTT-
```

Original motif Consensus sequence: AAATCTTAAAGCTC

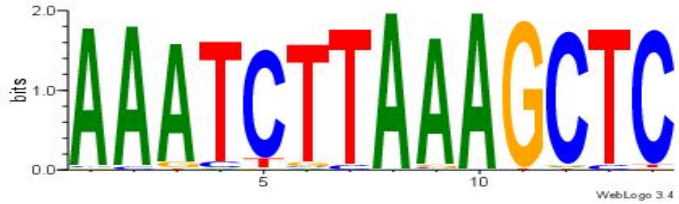

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

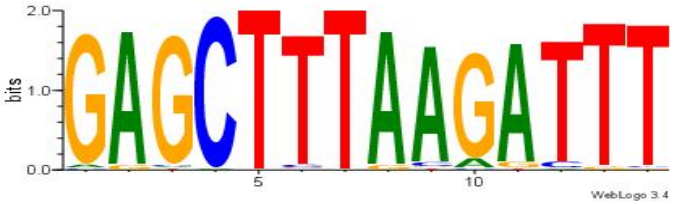

Dataset #:	1
Motif ID:	262

Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0858516

Alignment:

```
GACAGGAGATTAACACTGAG
------AAAATAAAA-----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

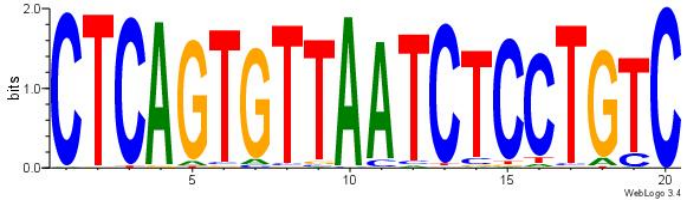

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

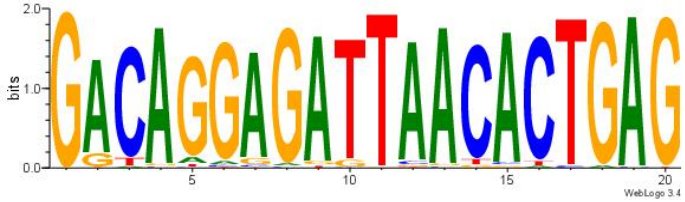

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0863287

Alignment:
GTTATTAATTGGCCTAATTT
--TTTTATTTT---------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

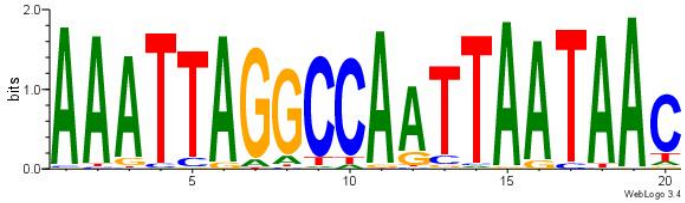

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.08634

Alignment:
GGTTTTCCATTCCTGAG
--TTTTATTTT------

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence:
GGTTTTCCATTCCTGAG

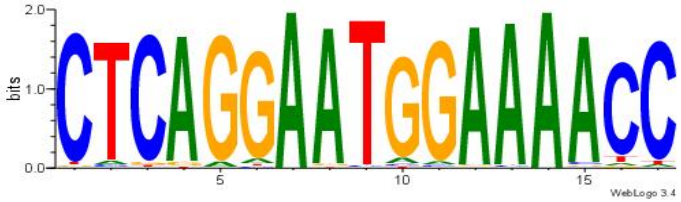

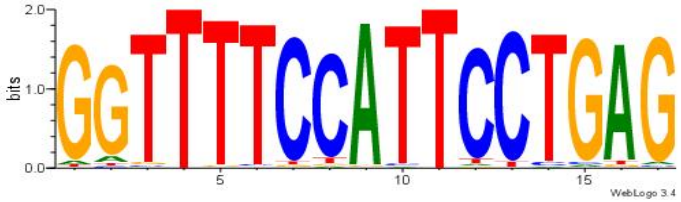

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0863804

Alignment:

```
AGTGAGAACATRYRRTRTTT
------AAAATAAAA-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

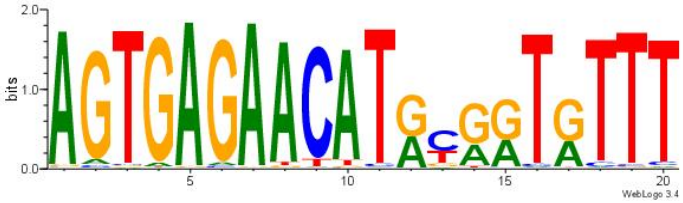

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

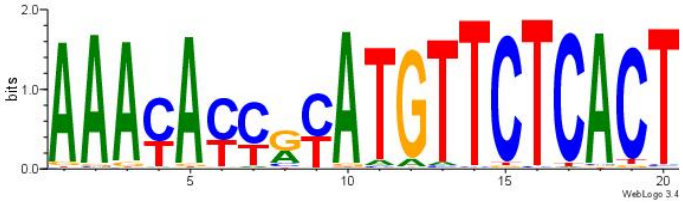

Dataset #:	1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0864349

Alignment:

```
TTTTATAGGATTTGGG
TTTTATTTT-------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

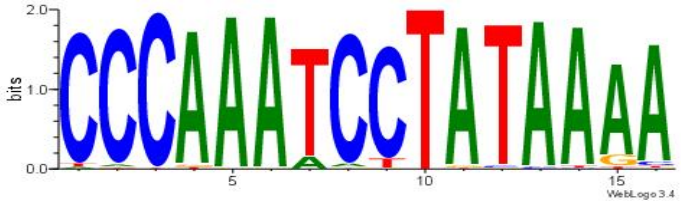

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

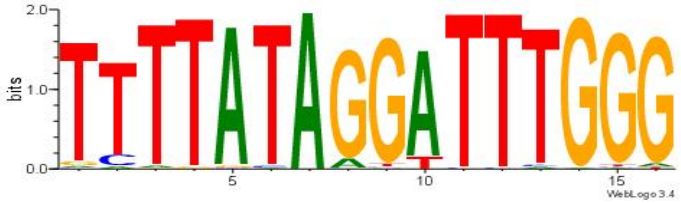

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0877566

Alignment:
ATGTAACCAAAYACCACCTG
-------AAAATAAAA----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

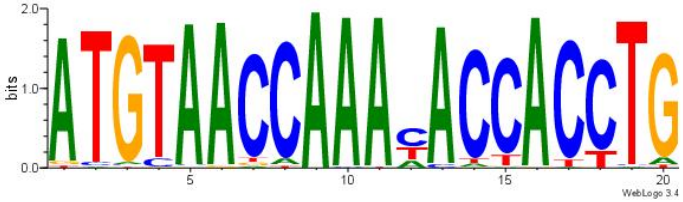

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

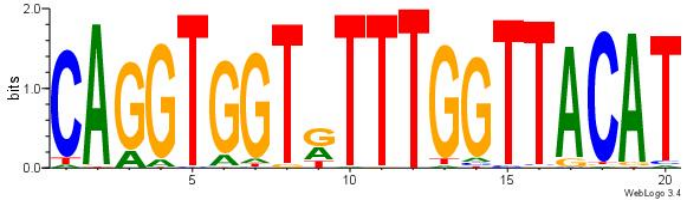

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 12
Number of overlap: 9
Similarity score: 0.0881369

Alignment:
TAGATAATAGCTCCAGCTTT
AAAATAAAA----------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

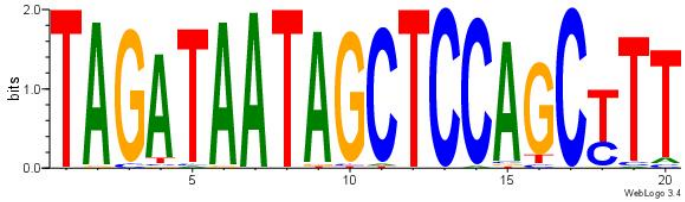

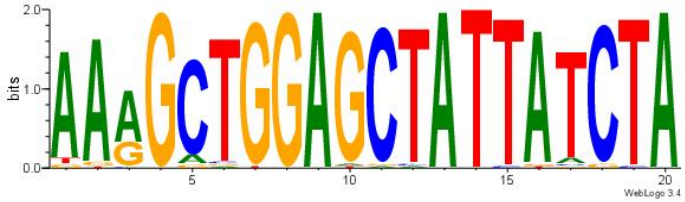

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0886956

Alignment:

```
ATGGCTGAATAKTATTCCAT
---------TTTTATTTT--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

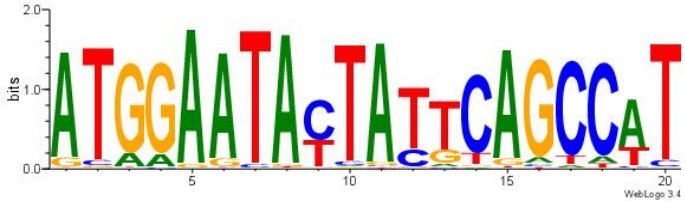

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

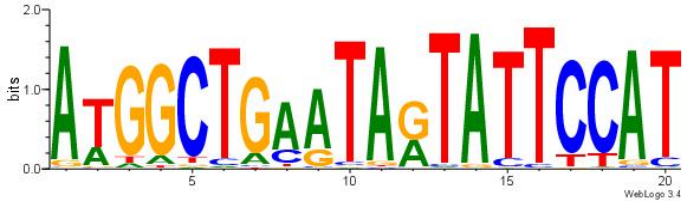

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0900932

Alignment:

```
ATTCAASATGAGATTTGGG
----AAAATAAAA------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

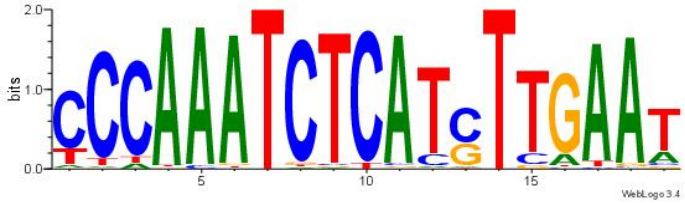

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

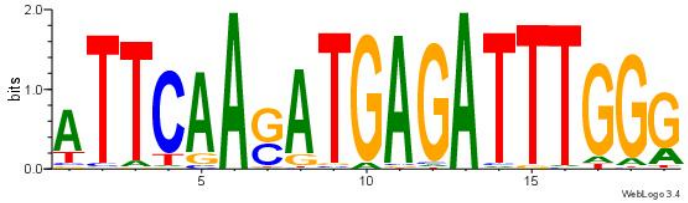

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9

Similarity score: 0.0910594

Alignment:
CAAGGTCTGATTGTW
-----TTTTATTTT-

Original motif Consensus sequence: CAAGGTCTGATTGTW

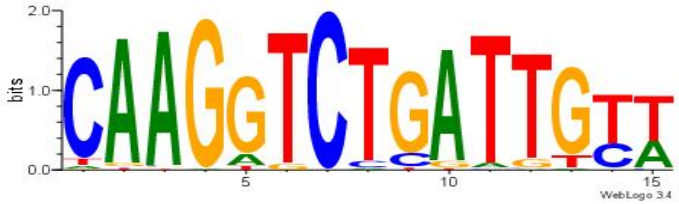

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 12
Number of overlap: 9
Similarity score: 0.0912352

Alignment:
GCTCCACCCAGTTCGAGCTT
----------TTTTATTTT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

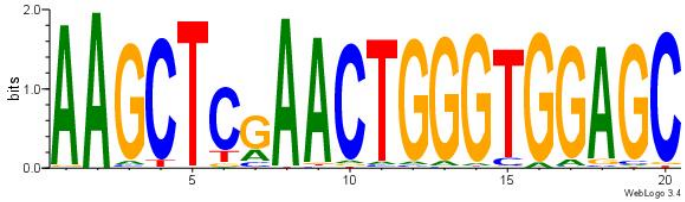

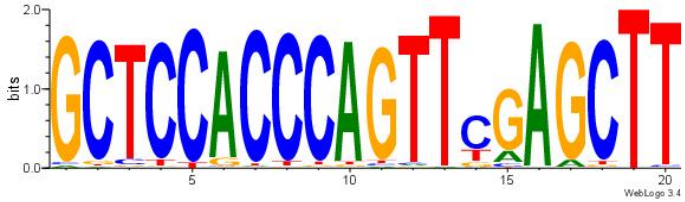

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0916506

Alignment:

```
AGTGACCCGATTTTCCAGGT
-----TTTTATTTT------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

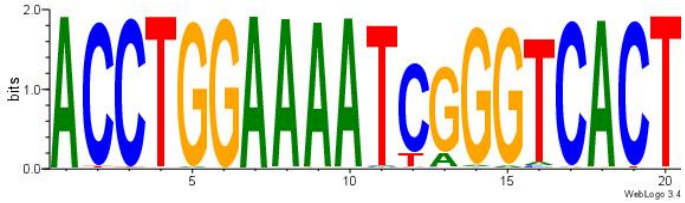

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

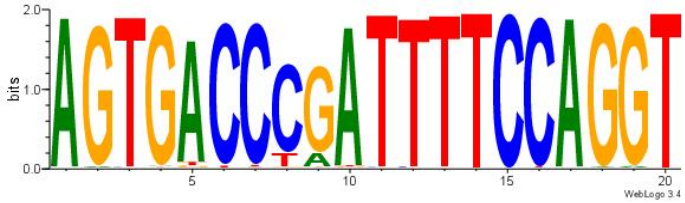

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0923161

Alignment:

```
VMATTTAKTGAGCACCTACT
--TTTTATTTT---------
```

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

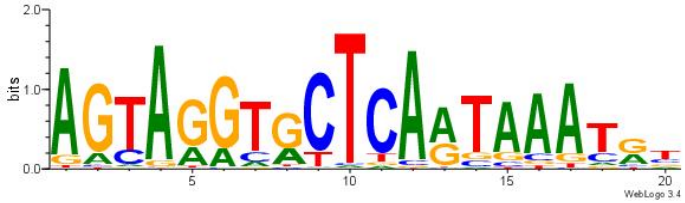

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

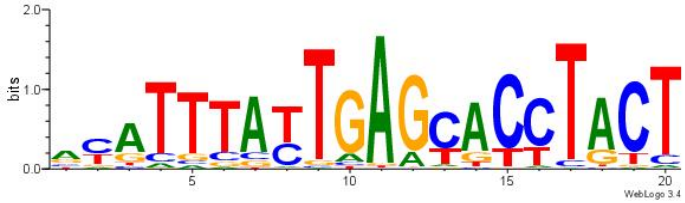

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0926398

Alignment:
CGGCGCTGMGCTCGATTTCT
----------TTTTATTTT-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

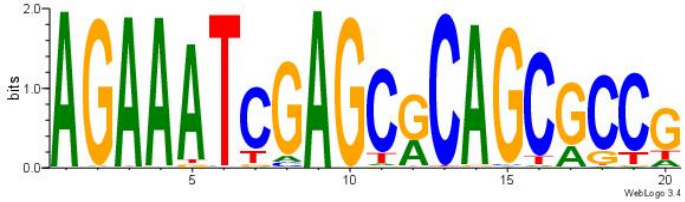

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

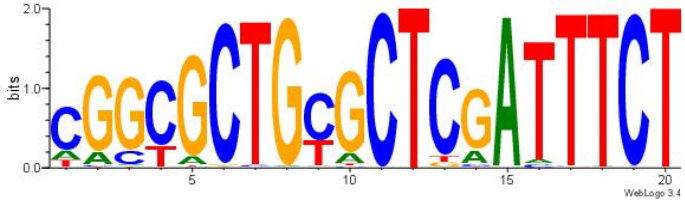

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 9
Similarity score: 0.0928819

Alignment:
CCCYAATACTGCGCTTTTC
---------TTTTATTTT-

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

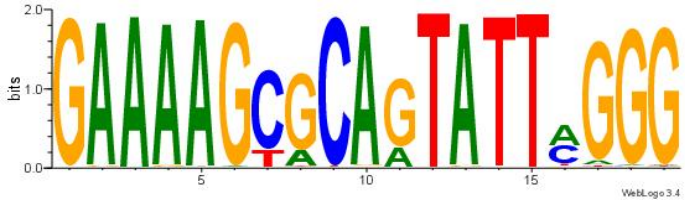

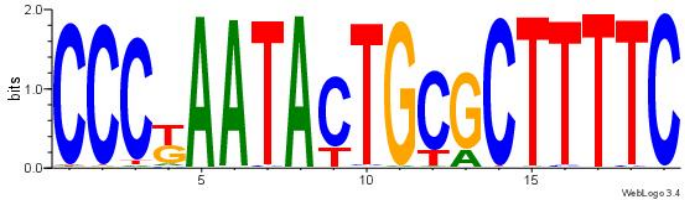

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0930091

Alignment:

```
GACTTCAAGAATGAAGCCG
-------AAAATAAAA---
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

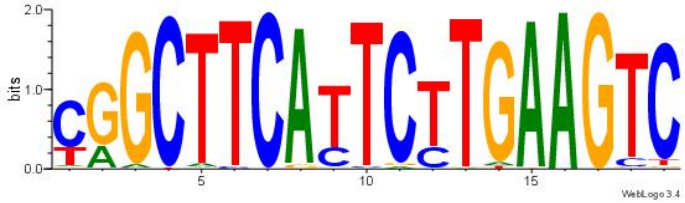

Dataset #:	1

Motif ID:	282
Motif name:	Motif 282
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0937346

Alignment:

```
GTCTCTACTAAAA
----AAAATAAAA
```

Original motif Consensus sequence: GTCTCTACTAAAA

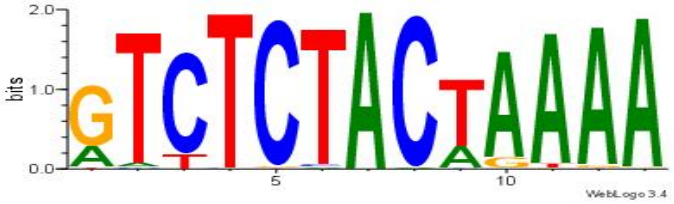

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

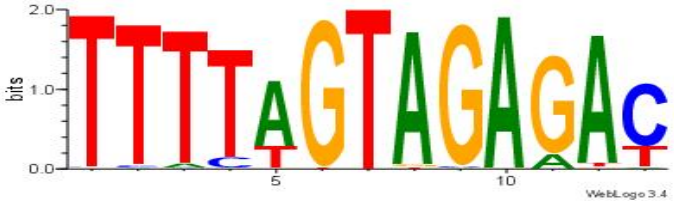

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0939246

Alignment:
AGGCCCCAGTGTSTGTTGTT
----------TTTTATTTT-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

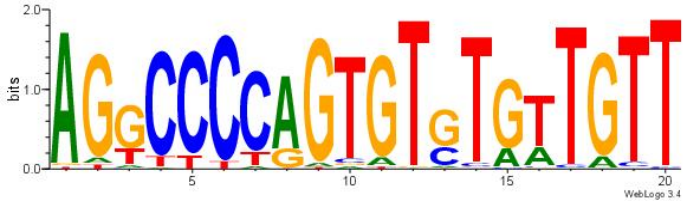

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

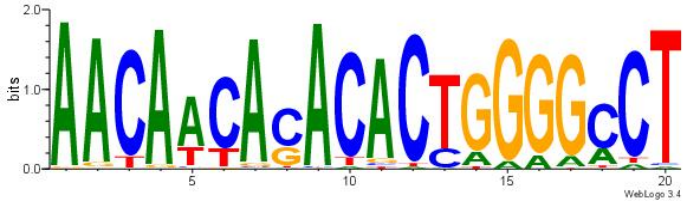

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0941173

Alignment:
ACACATCACAAAGCAGTTTC
--AAAATAAAA---------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

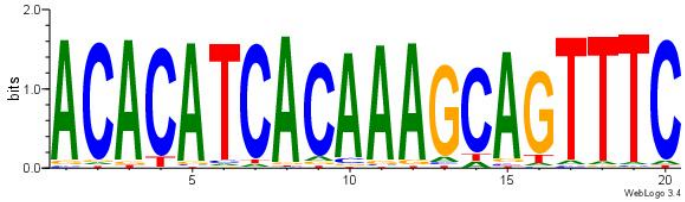

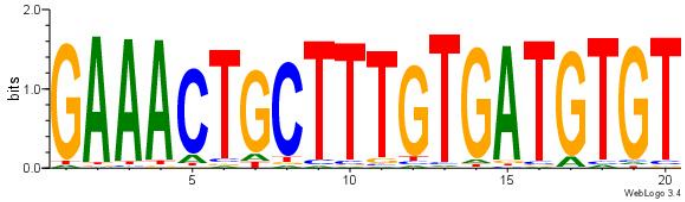

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0943387

Alignment:

```
AAAATGTGGTAYATAYAYAC
AAAATAAAA-----------
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

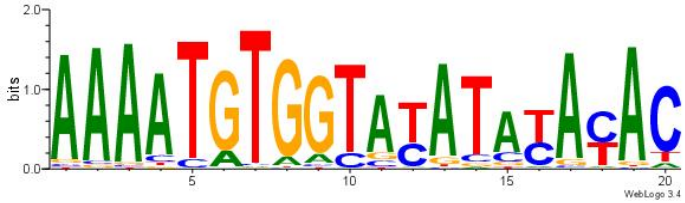

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

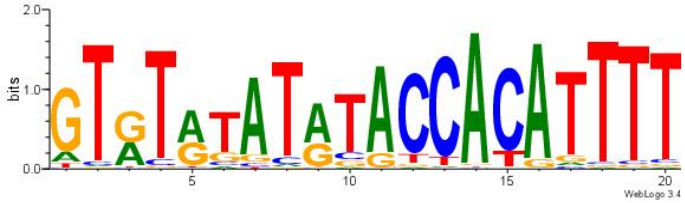

Dataset #:	1

Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.094452

Alignment:

```
GCTTCCATGTG
--TTTTATTTT
```

Original motif Consensus sequence: CACATGGAAGC

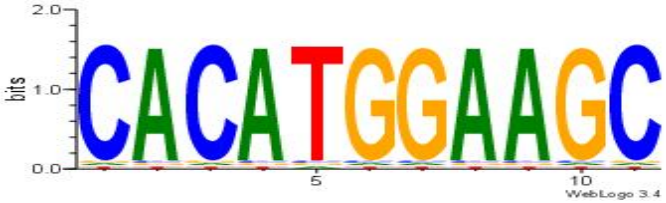

Reverse complement motif Consensus sequence: GCTTCCATGTG

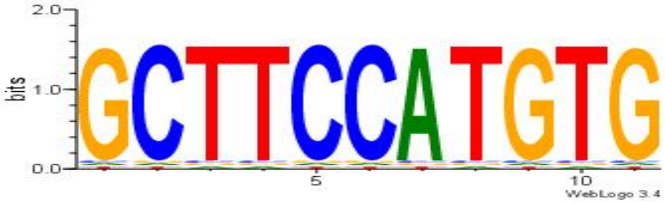

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0944934

Alignment:
AAATATTTATT
--TTTTATTTT

Original motif Consensus sequence: AAATATTTATT

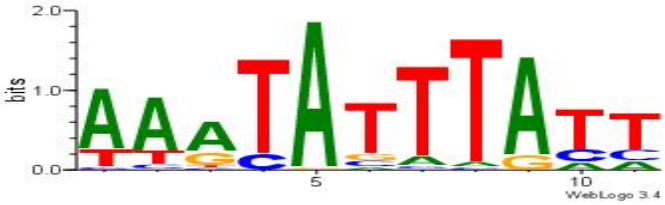

Reverse complement motif Consensus sequence: AATAAATATTT

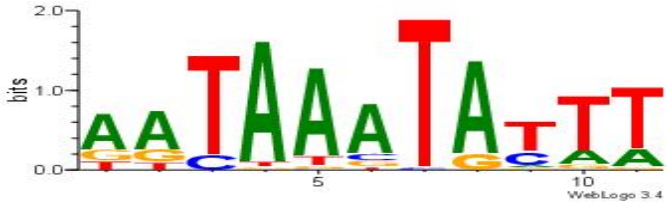

Dataset #:	1
Motif ID:	173
Motif name:	Motif 173
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0948529

Alignment:
AAGGAAACAA
-AAAATAAAA

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

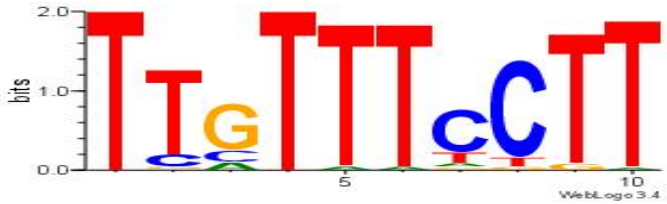

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.0948832

Alignment:
AGGAGGAAGTCAATTTC
--------TTTTATTTT

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

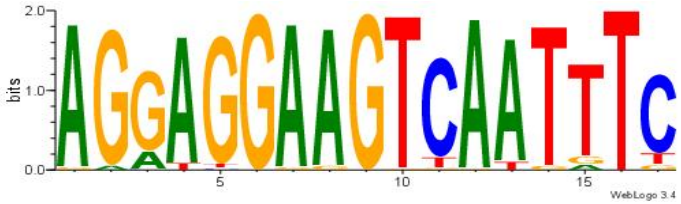

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

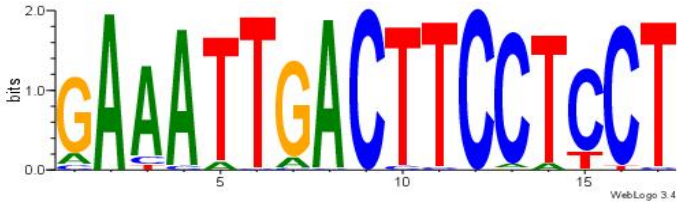

Dataset #: 1 Motif ID: 125 Motif name: Motif 125

Original motif Consensus sequence: CGCCCGGCCAGCCGC

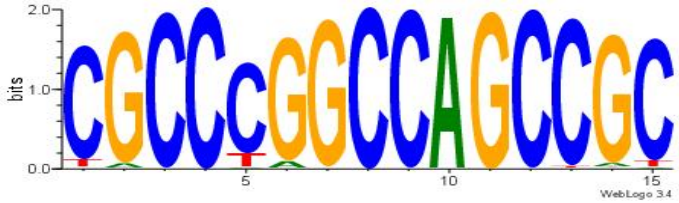

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

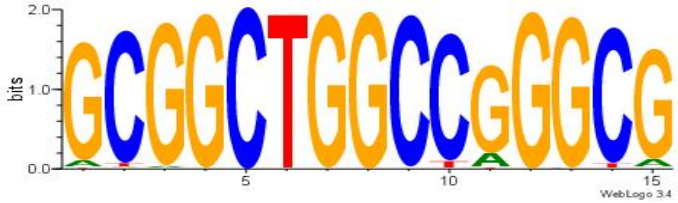

Best Matches for Motif ID 125 (Highest to Lowest)

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0866862

Alignment:

```
AGTTCCGGGTGGGCGTGGG
GCGGCTGGCCGGGCG----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

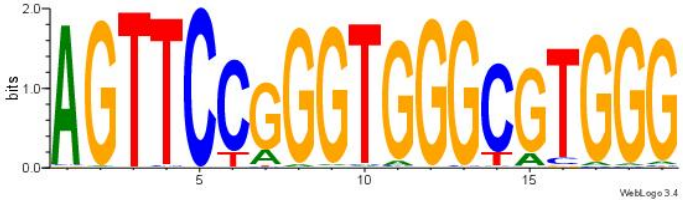

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

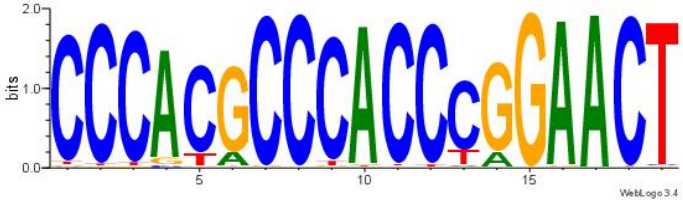

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0950761

Alignment:

```
GGTGGGGGGGTCAGCCCCC
-CGCCCGGCCAGCCGC---
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

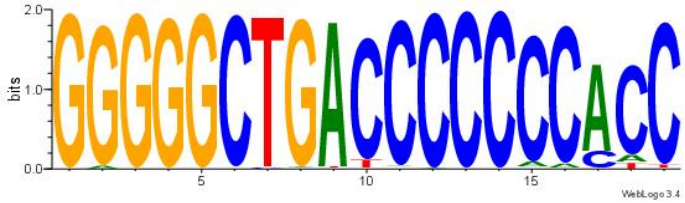

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

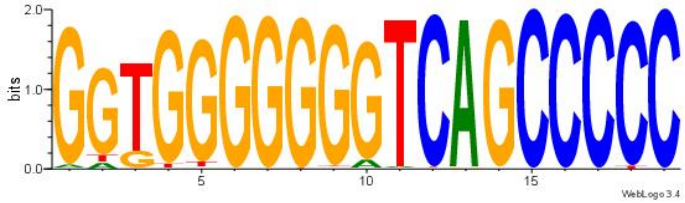

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number:	5
Number of overlap:	15
Similarity score:	0.0965381

Alignment:
GCGMGCGGGAACCGGGGCT
----GCGGCTGGCCGGGCG

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

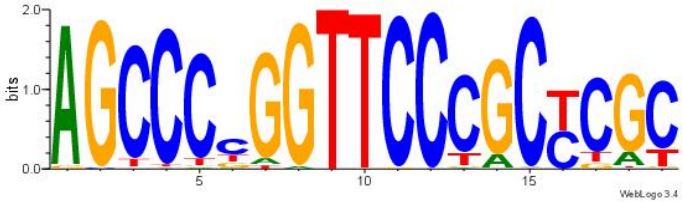

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

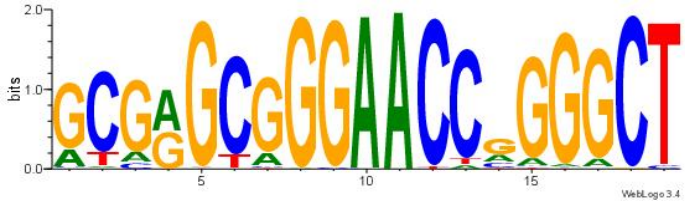

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0972915

Alignment:
CCGCGGGGCAGGGCTCG
GCGGCTGGCCGGGCG--

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

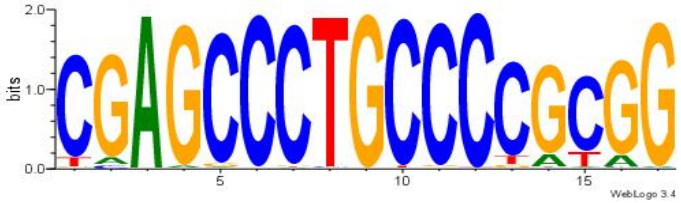

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

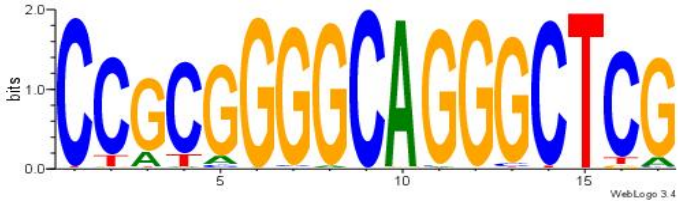

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.098833

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
--CGCCCGGCCAGCCGC---
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

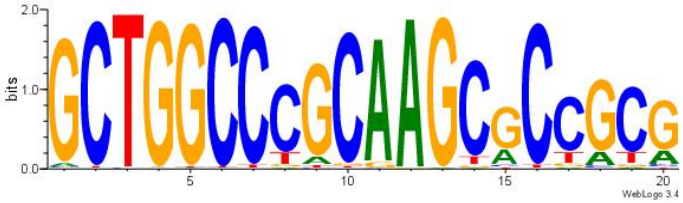

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

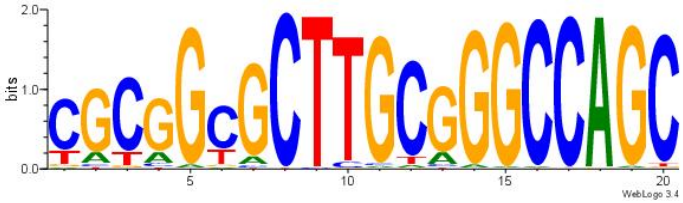

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.100001

Alignment:

```
ACGCCCACGGAGTCTC
-CGCCCGGCCAGCCGC
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

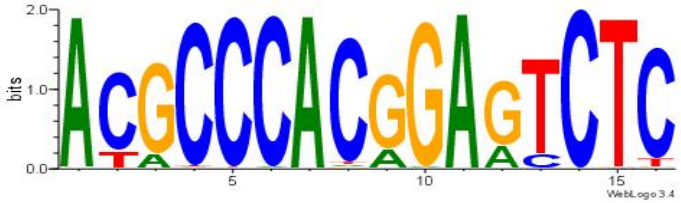

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

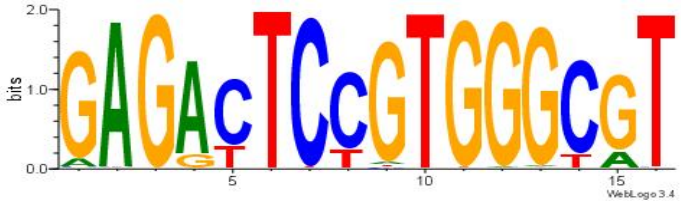

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.101519

Alignment:
ACTCAGCCCRCCTGCACCC
---CGCCCGGCCAGCCGC-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

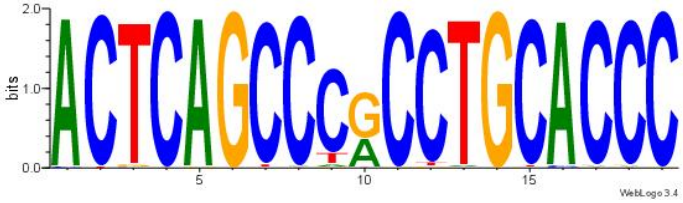

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

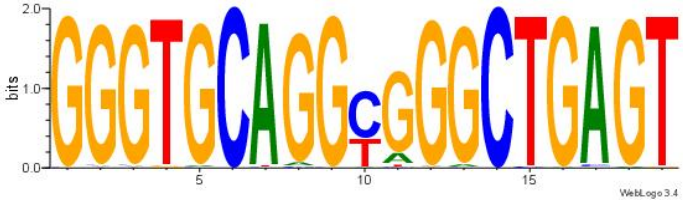

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.102701

Alignment:
GCTGCARTCTCGGCACTTT
GCGGCTGGCCGGGCG----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

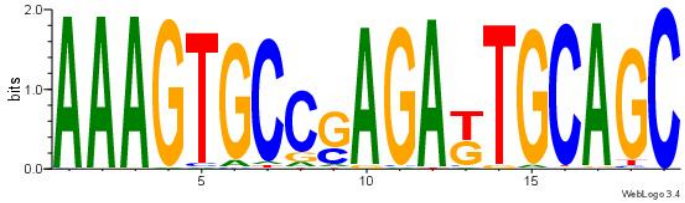

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

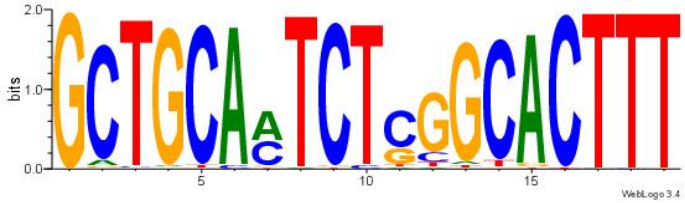

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.103563

Alignment:

```
CTTTCTGGGCTGGCCAAGG
GCGGCTGGCCGGGCG----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

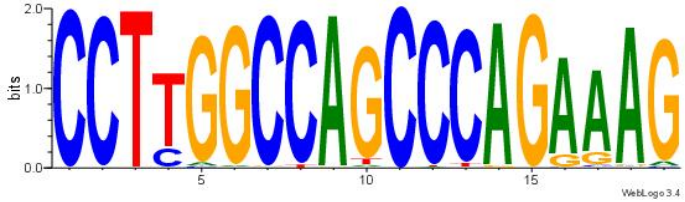

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

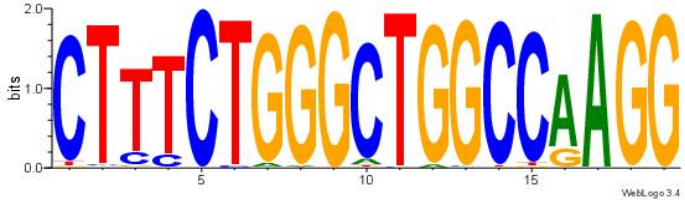

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.105857

Alignment:

```
ATTAGCYRGGCRTGGTGGC
--GCGGCTGGCCGGGCG--
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

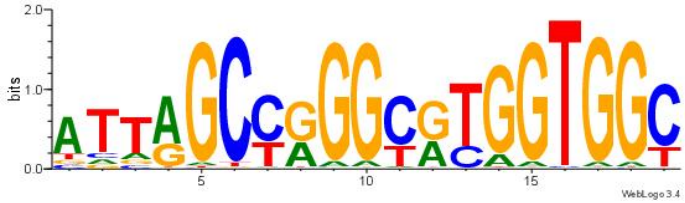

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

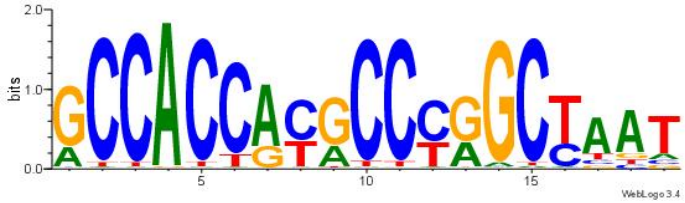

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.108868

Alignment:
CGAGCCTCCCCGAYGAGCGC
-----CGCCCGGCCAGCCGC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

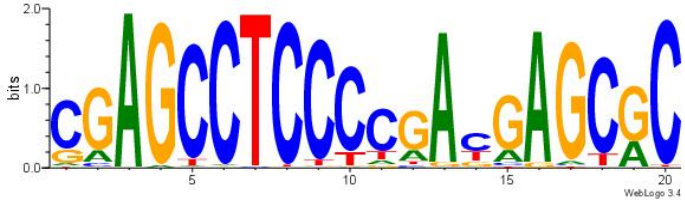

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

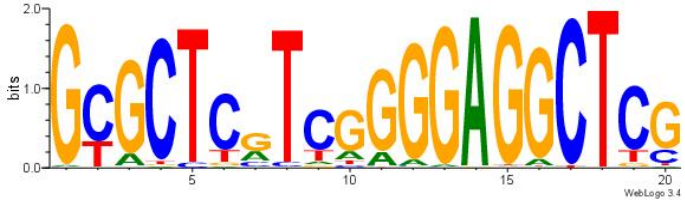

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.109152

Alignment:
CCTGCCATTGCYSAGGCTTG
---GCGGCTGGCCGGGCG--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

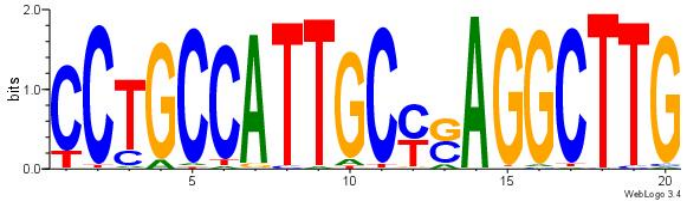

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

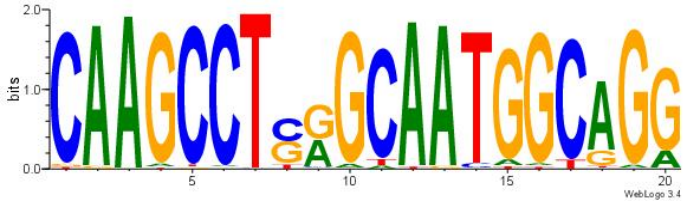

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.110197

Alignment:

```
GAATCCTGGGACAGCCTGT
---CGCCCGGCCAGCCGC-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

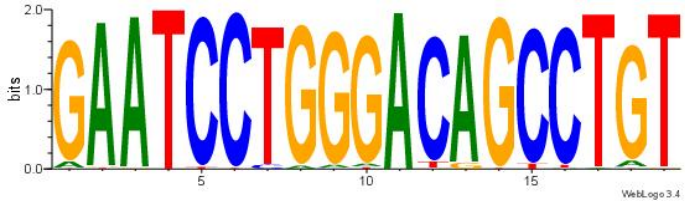

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

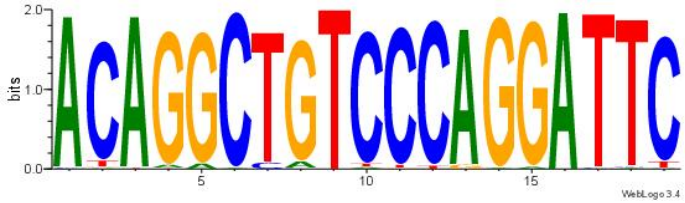

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.110465

Alignment:

```
CATGGCGGGCTGCAGGTC
--GCGGCTGGCCGGGCG-
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

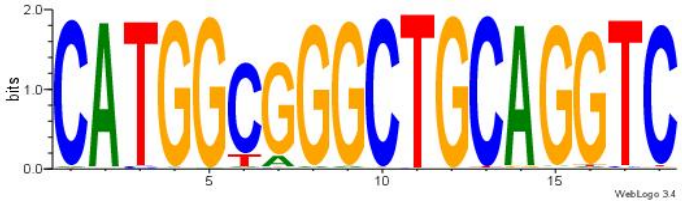

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

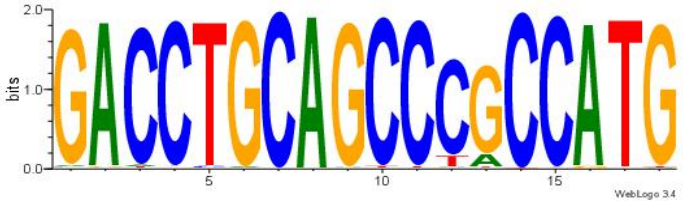

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.110486

Alignment:
GCCCTCACCAGAAGC
CGCCCGGCCAGCCGC

Original motif Consensus sequence: GCCCTCACCAGAAGC

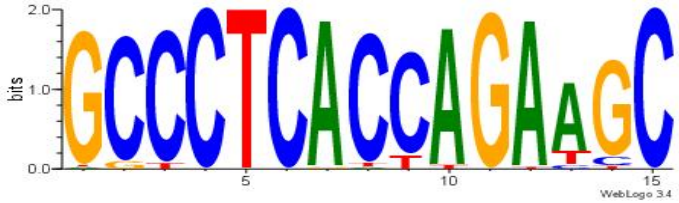

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

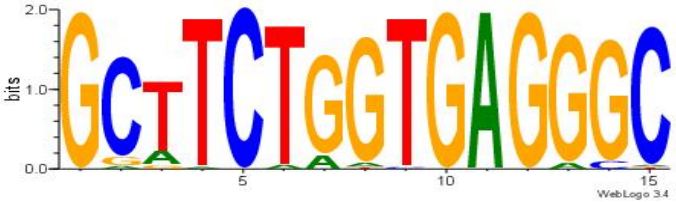

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.110798

Alignment:
GGAGGTGTGGAGGGAGAGGC
-GCGGCTGGCCGGGCG----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

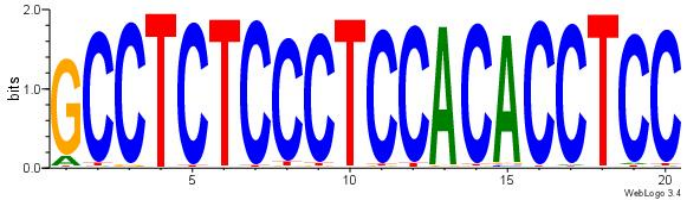

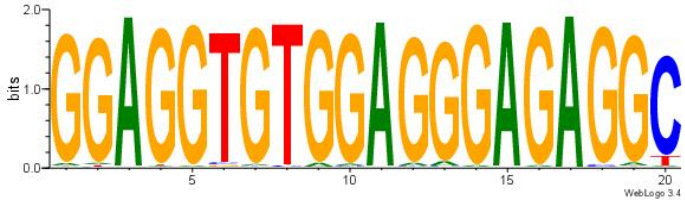

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.111416

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--CGCCCGGCCAGCCGC---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

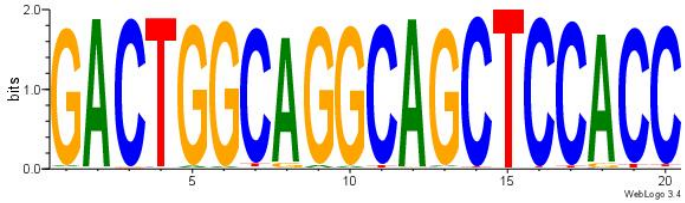

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

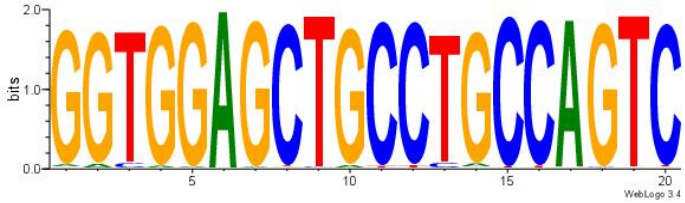

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.111739

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-CGCCCGGCCAGCCGC----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

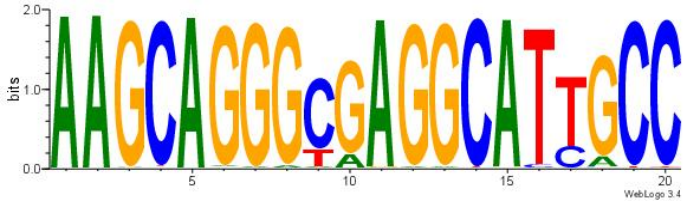

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

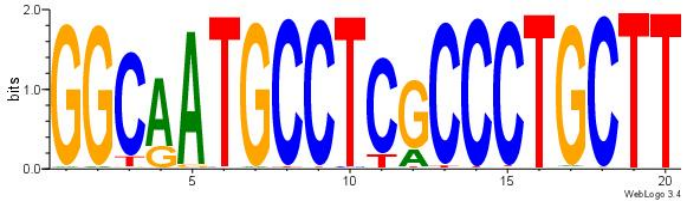

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.111767

Alignment:
GGGCTCCCACAGTGCAGCGG
---CGCCCGGCCAGCCGC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

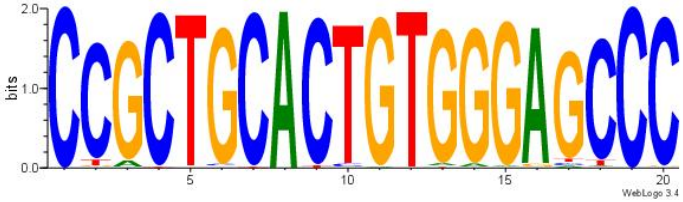

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

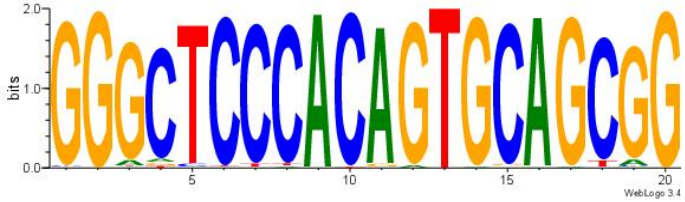

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.111807

Alignment:
CTGGGTCCCCCAGCAGTGCC
--CGCCCGGCCAGCCGC---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

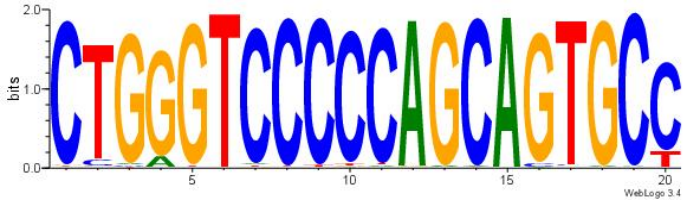

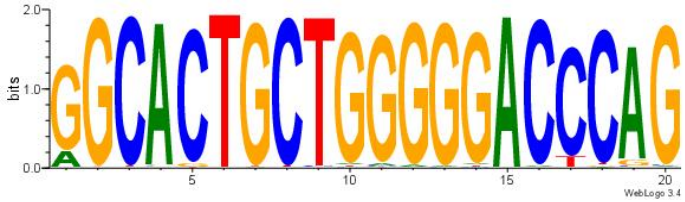

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.113503

Alignment:

```
TTGTCCCACTGGAAGGTCTT
----GCGGCTGGCCGGGCG-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

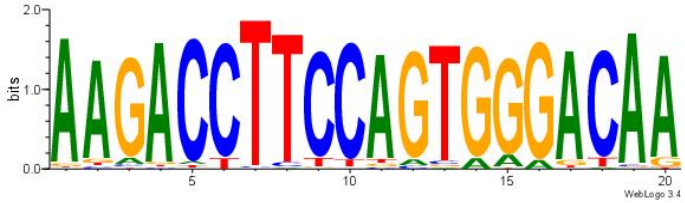

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

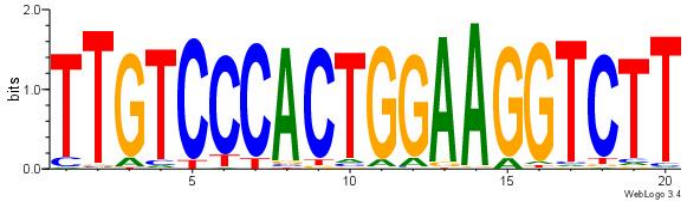

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.114558

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-CGCCCGGCCAGCCGC----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

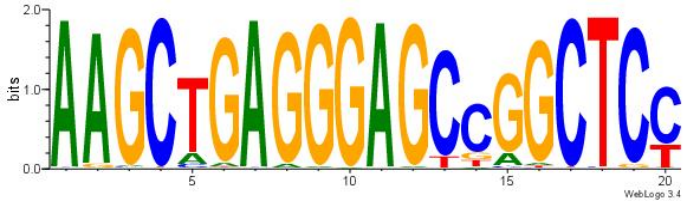

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

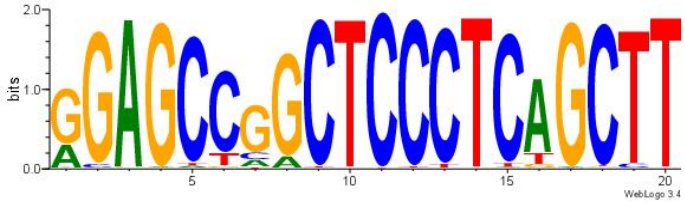

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15

Similarity score: 0.114714

Alignment:
CTTGGGTGGTCGATGGGAC
-GCGGCTGGCCGGGCG---

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

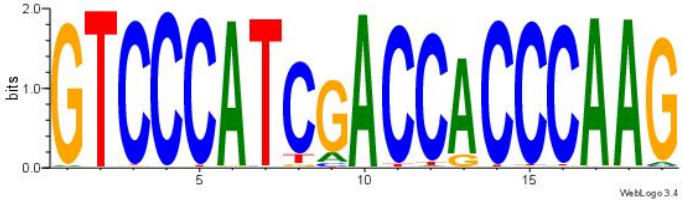

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

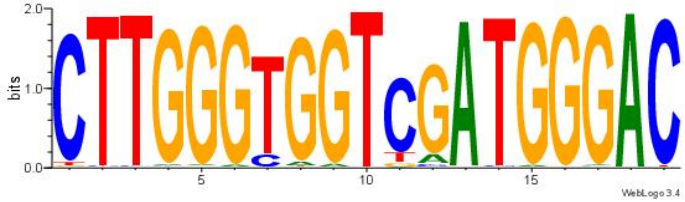

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.114879

Alignment:
TCCCTCCCGGACGGGGYGGC
---CGCCCGGCCAGCCGC--

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

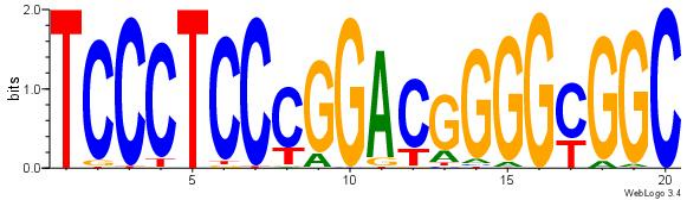

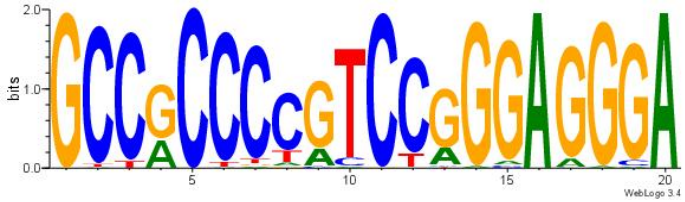

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.115938

Alignment:

```
TCACKMGGGAAGCGCAAG
--CGCCCGGCCAGCCGC-
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

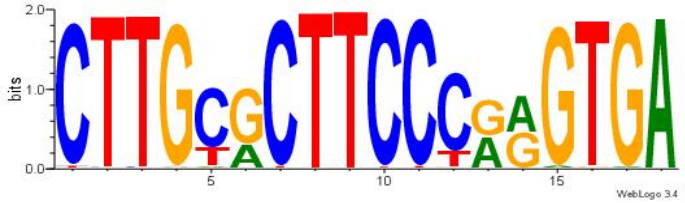

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

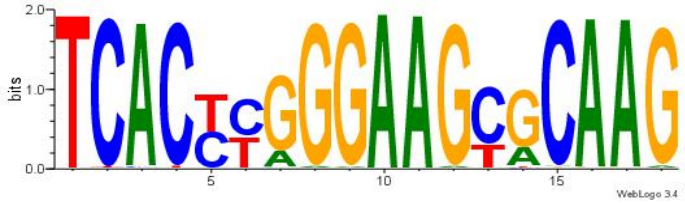

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.117906

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-----GCGGCTGGCCGGGCG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

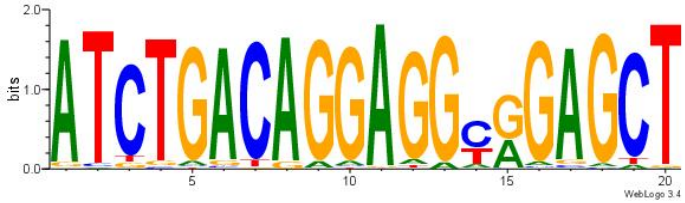

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

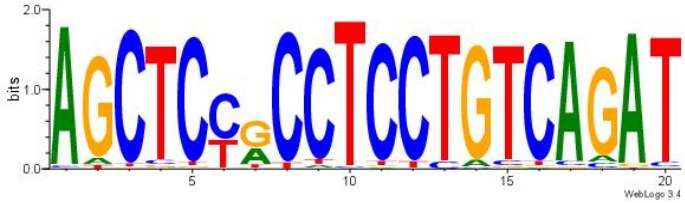

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.117942

Alignment:
AGCCYCTGGYAACCAYYAWT
-CGCCCGGCCAGCCGC----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

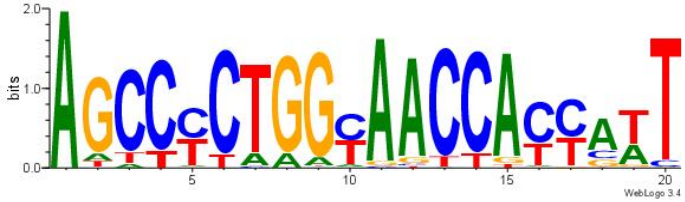

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

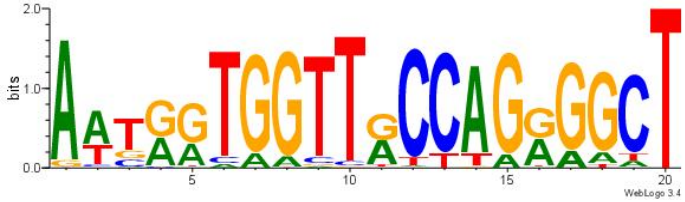

Dataset #: 1
Motif ID: 27
Motif name: Motif 27
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.118214

Alignment:
CACTTCCCAGACGGGGCG
GCGGCTGGCCGGGCG---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

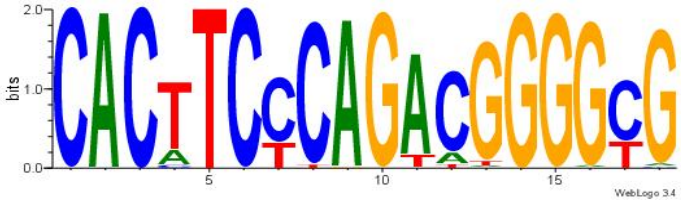

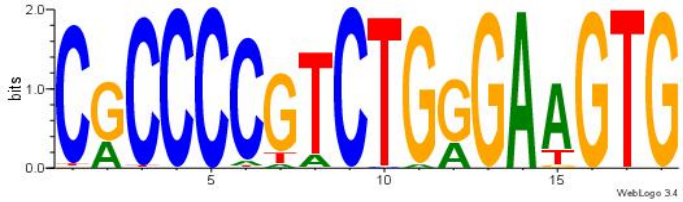

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.119092

Alignment:

```
GTTGGCCAGGCTGGTCT
--GCGGCTGGCCGGGCG
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

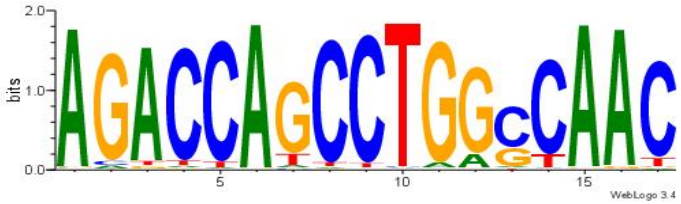

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

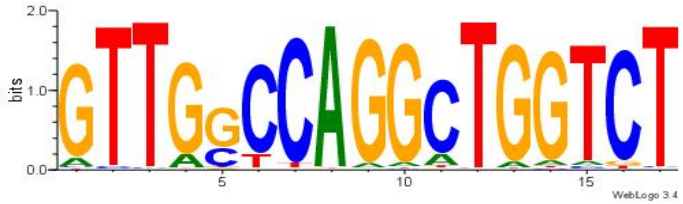

Dataset #: 1

Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.119177

Alignment:

```
GCCRGCCCTGCYGGCC
-GCGGCTGGCCGGGCG
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

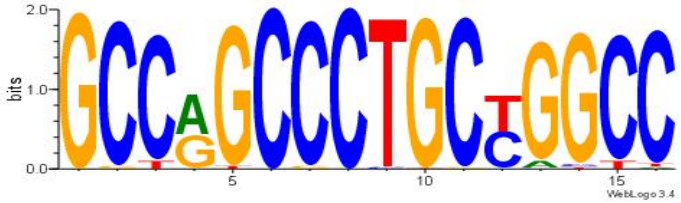

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

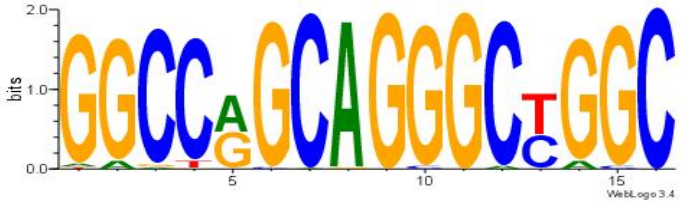

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.119217

Alignment:
ACCGAGMKMGCAGCTTCGGG
--CGCCCGGCCAGCCGC---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

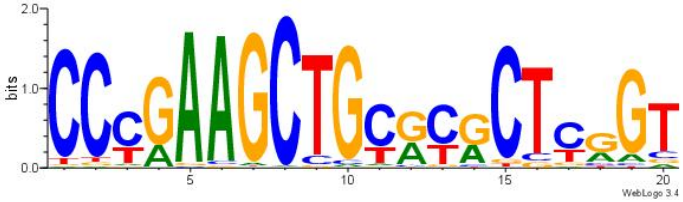

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

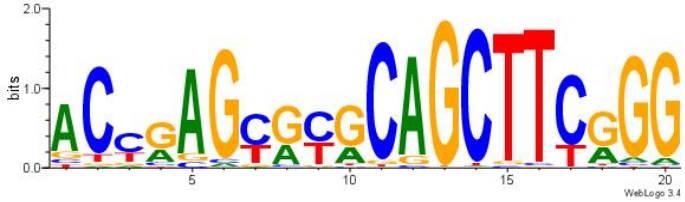

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.120004

Alignment:
KCCGGGCCTTAGCTGCCTTC
-CGCCCGGCCAGCCGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

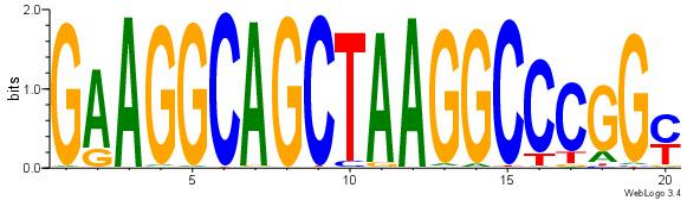

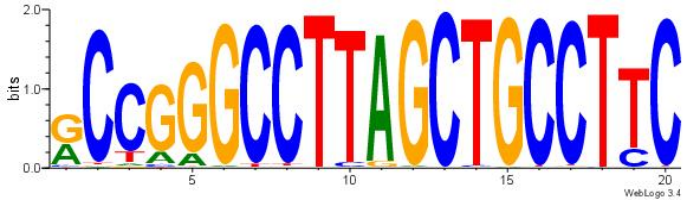

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.12084

Alignment:

```
CMTAGYACAGTGCCTGGCAC
----GCGGCTGGCCGGGCG-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

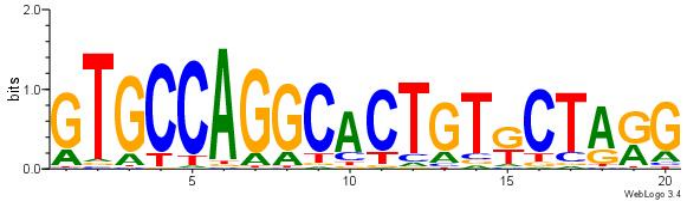

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

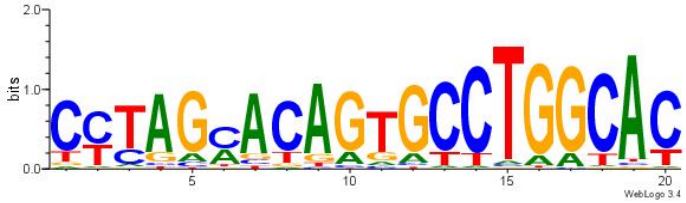

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.124234

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
---CGCCCGGCCAGCCGC--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

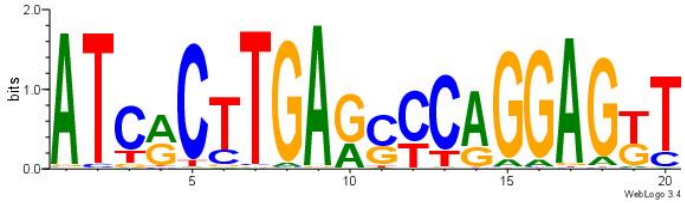

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

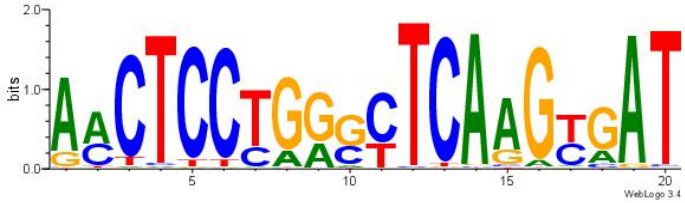

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.124308

Alignment:
AGATGCCAGCCAGAGCTCT
-GCGGCTGGCCGGGCG---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

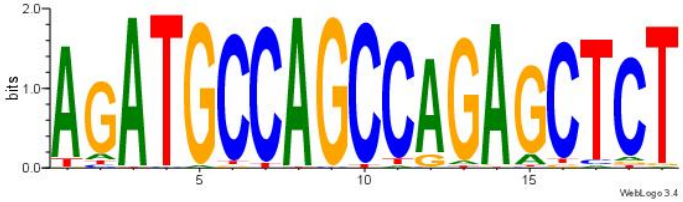

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

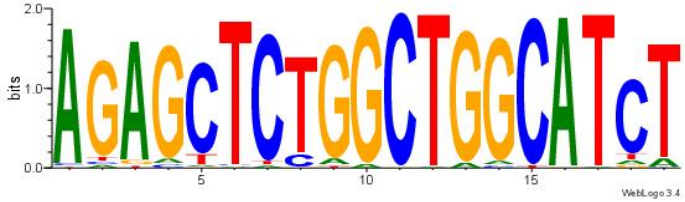

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.125026

Alignment:
CGGCGCTGMGCTCGATTTCT
-GCGGCTGGCCGGGCG----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

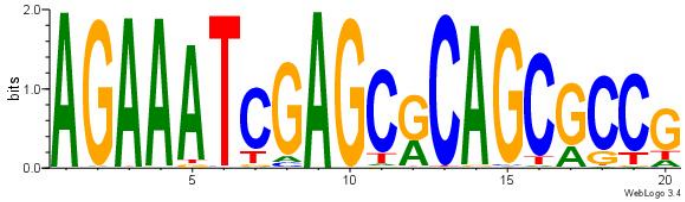

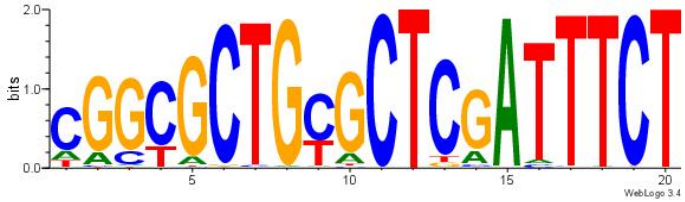

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.125435

Alignment:

```
TGCCCAGTCTGGAAAGTG
CGCCCGGCCAGCCGC---
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

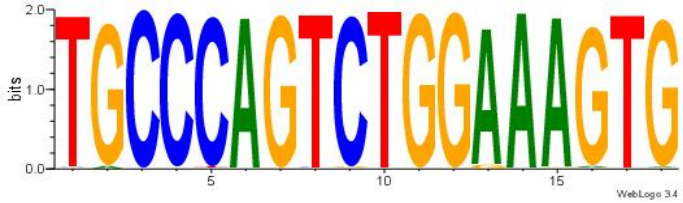

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

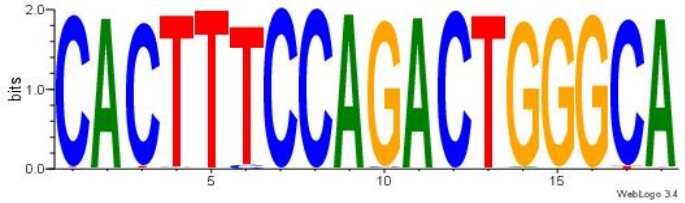

Dataset #: 1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.125575

Alignment:

```
GGCTGCGGAGGGTGTA
GCGGCTGGCCGGGCG-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

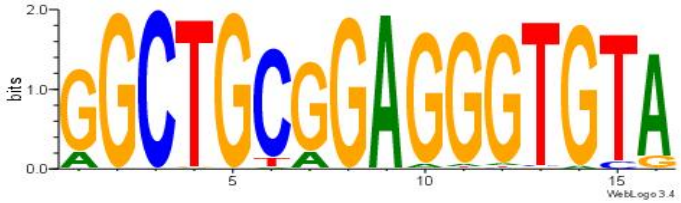

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

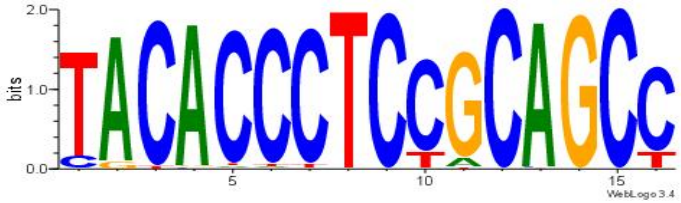

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.12617

Alignment:
GTAGCTGGGAYTACA
GCGGCTGGCCGGGCG

Original motif Consensus sequence: GTAGCTGGGAYTACA

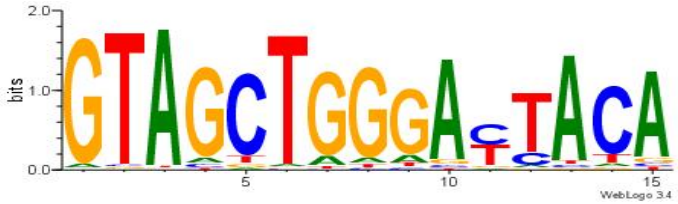

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

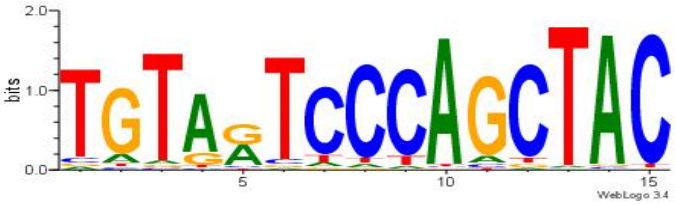

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.126319

Alignment:
ATGGCCTATGACYGSTTTG
---GCGGCTGGCCGGGCG-

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

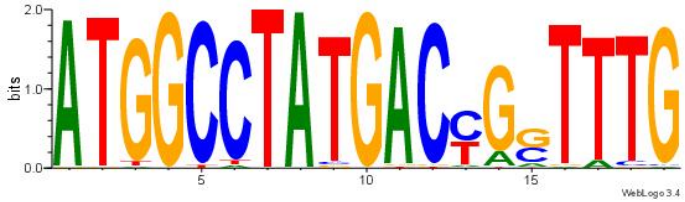

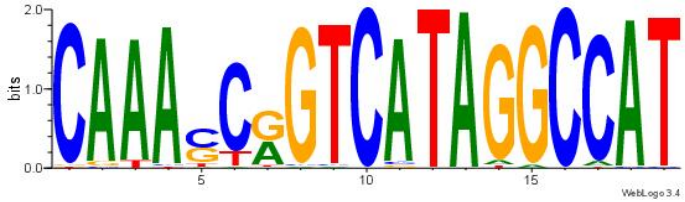

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.126451

Alignment:

```
GCAGCTTCACTCCTGA
GCGGCTGGCCGGGCG-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

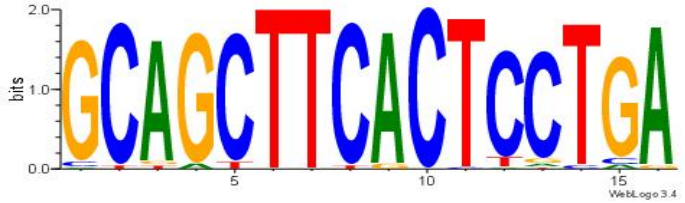

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

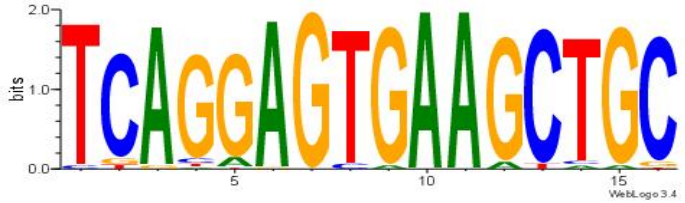

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.126605

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
-----GCGGCTGGCCGGGCG
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

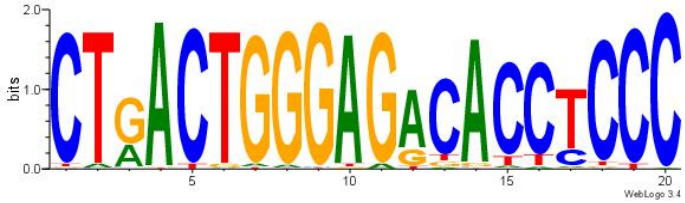

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

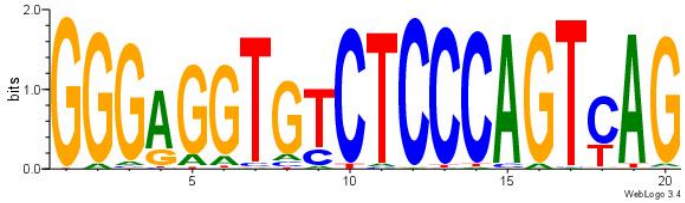

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.127772

Alignment:
TGCTCACACAAAGCCTGT
--CGCCCGGCCAGCCGC-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

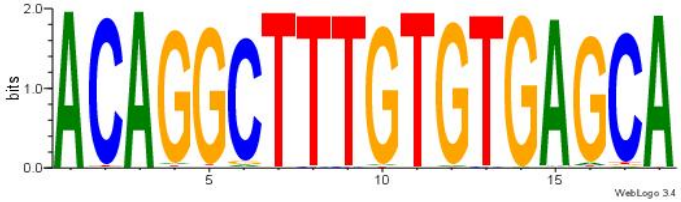

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

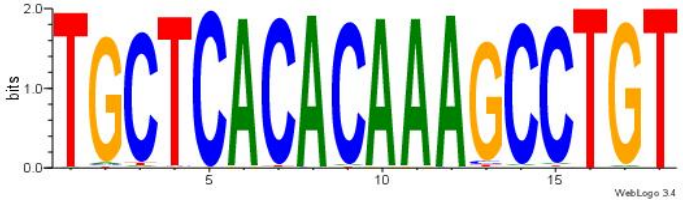

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.127899

Alignment:
CGCCCATCGTCTGGGATGT
-GCGGCTGGCCGGGCG---

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

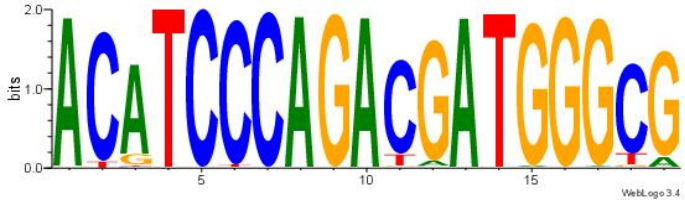

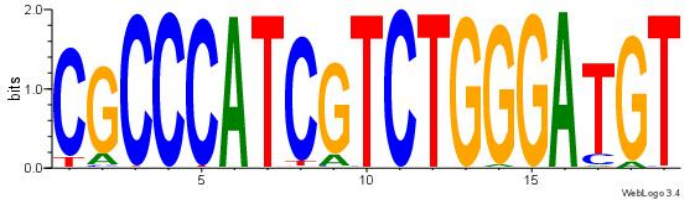

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.128119

Alignment:

```
CCCCGGGCAGTGAGGG
CGCCCGGCCAGCCGC-
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

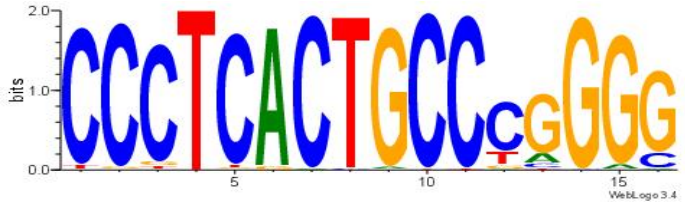

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

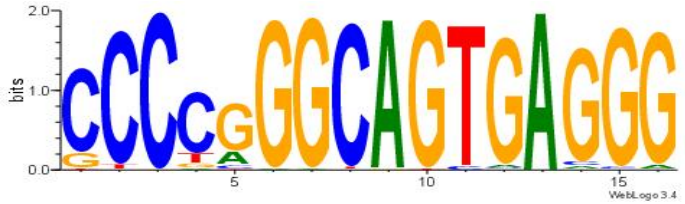

Dataset #:	1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.128144

Alignment:

```
GATCACGAGGTCAGGAG
GCGGCTGGCCGGGCG--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

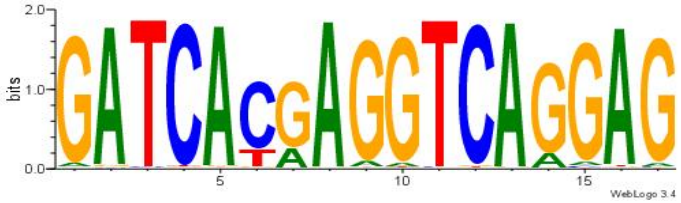

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

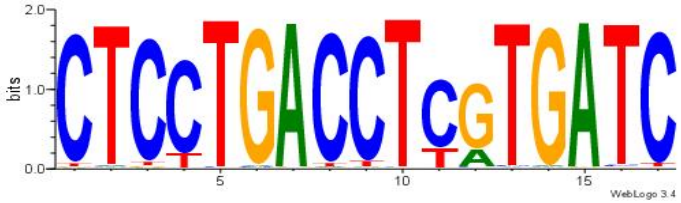

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15

Similarity score: 0.12823

Alignment:
CCCMKGGCACCCTCAGTCCT
-----CGCCCGGCCAGCCGC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

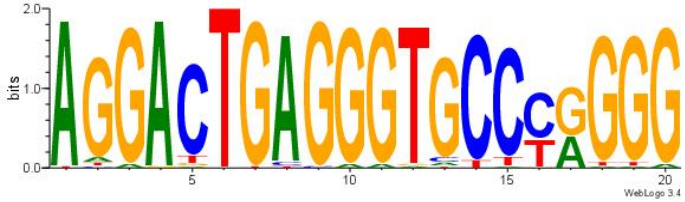

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

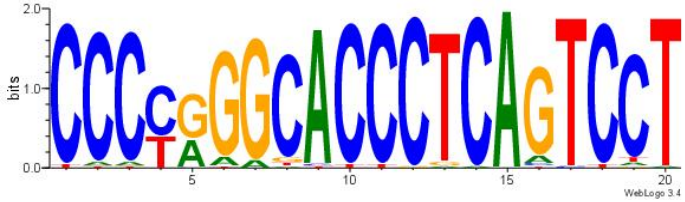

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.128268

Alignment:
MCCYGGCWSMGASGSTCCT
--GCGGCTGGCCGGGCG--

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

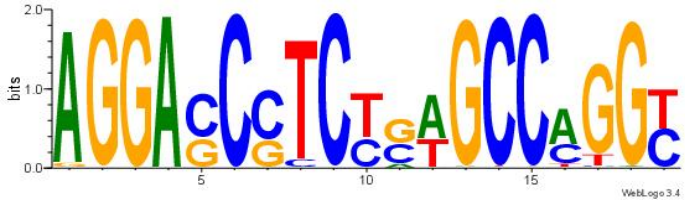

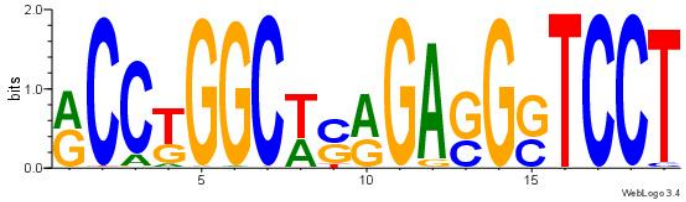

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.128319

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-CGCCCGGCCAGCCGC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

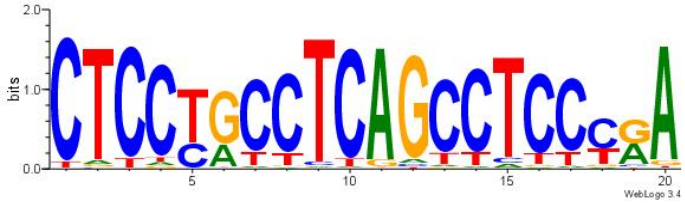

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

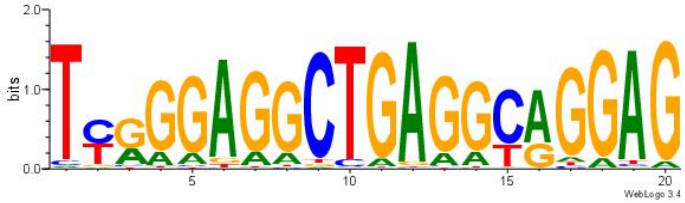

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.128491

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-----GCGGCTGGCCGGGCG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

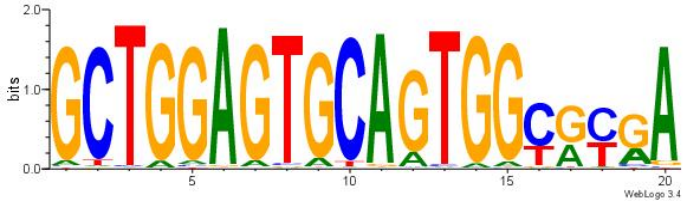

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

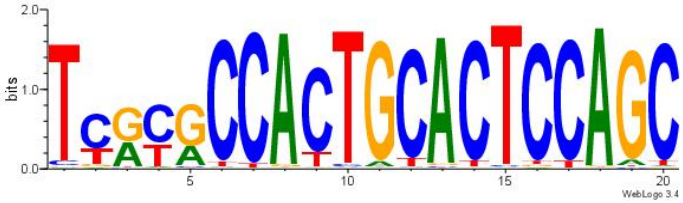

Dataset #: 1 Motif ID: 126 Motif name: Motif 126

Original motif Consensus sequence: AYGCCTGTAATC

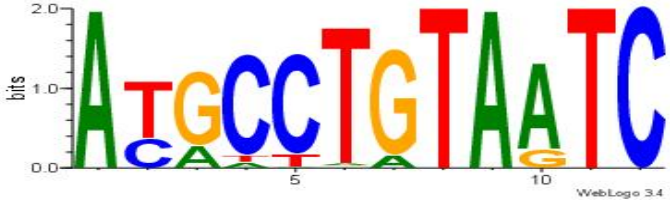

Reverse complement motif Consensus sequence: GATTACAGGCMT

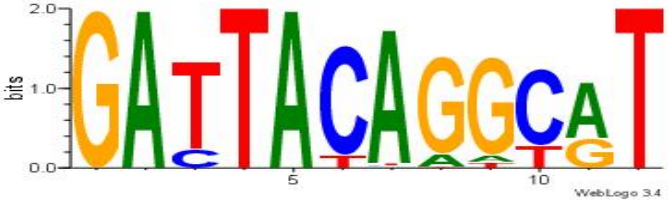

Best Matches for Motif ID 126 (Highest to Lowest)

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0669992

Alignment:

```
ACTTTCAGGCATAACA
GATTACAGGCMT----
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

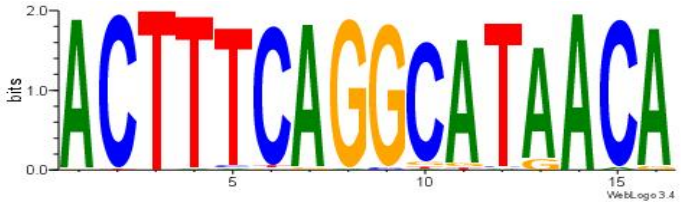

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

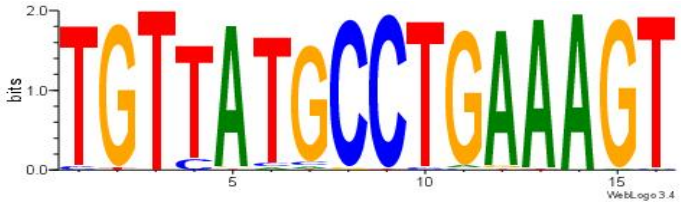

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0695709

Alignment:

```
GACTTCAAGAATGAAGCCG
GATTACAGGCMT-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

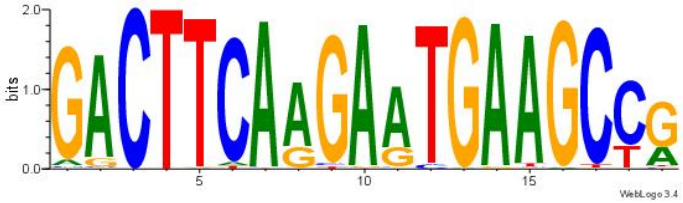

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

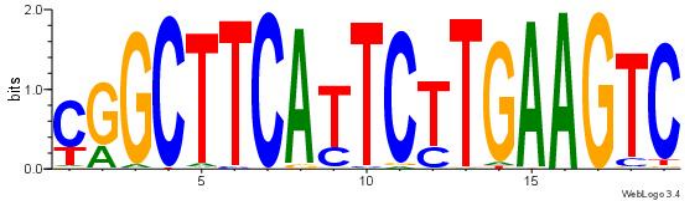

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0736473

Alignment:

```
ATAGGAATGCTTGTGATTTT
------AYGCCTGTAATC--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

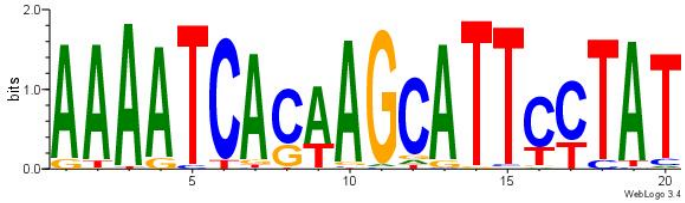

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

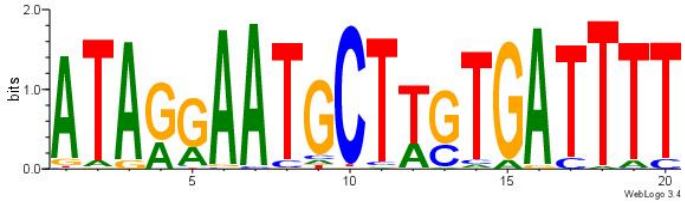

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0740911

Alignment:

```
CCCATGCAAGTCYRAAATCC
-------AYGCCTGTAATC-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

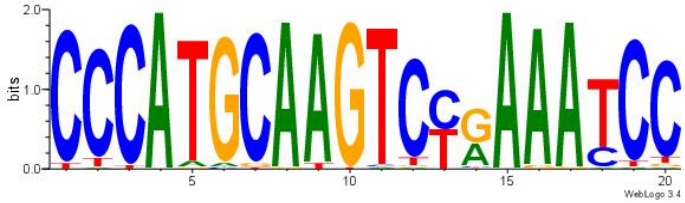

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

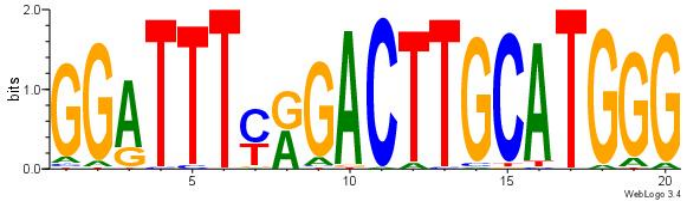

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0813954

Alignment:

```
CACCAGGAGATTATATCCCR
GATTACAGGCMT--------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

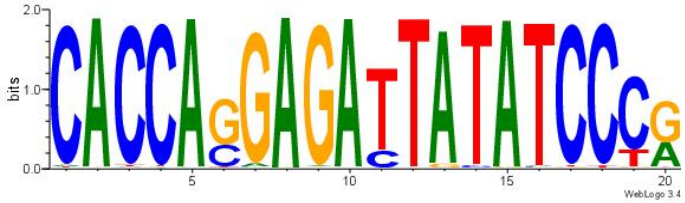

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

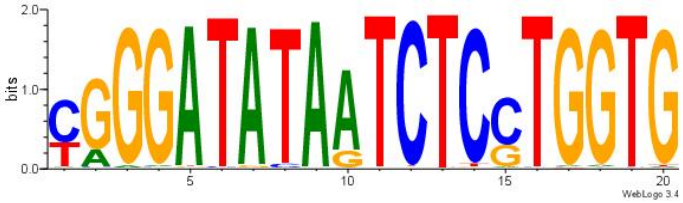

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 12
Similarity score: 0.0816942

Alignment:
ACATCMTCTGAAATCTAGG
---AYGCCTGTAATC----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

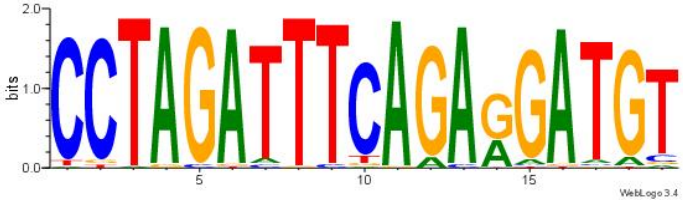

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

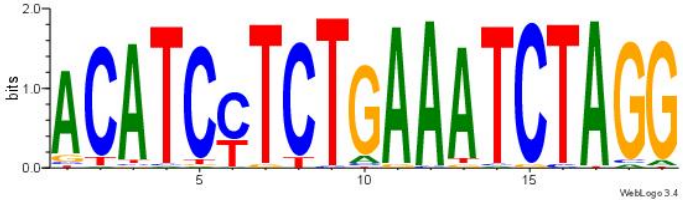

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0860379

Alignment:
ACTCAGCCCRCCTGCACCC
-------AYGCCTGTAATC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

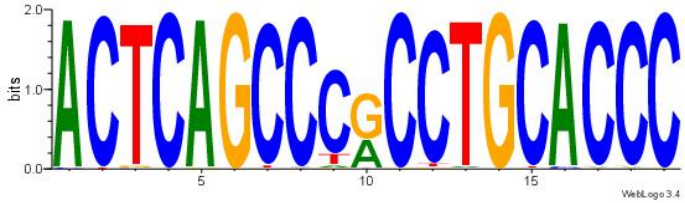

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

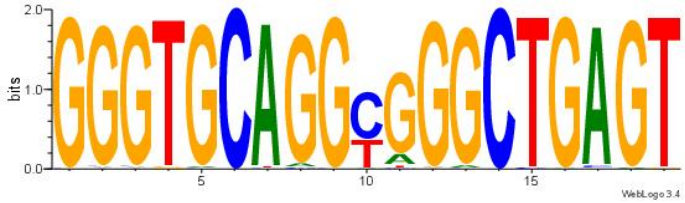

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0860996

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
-GATTACAGGCMT-------
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

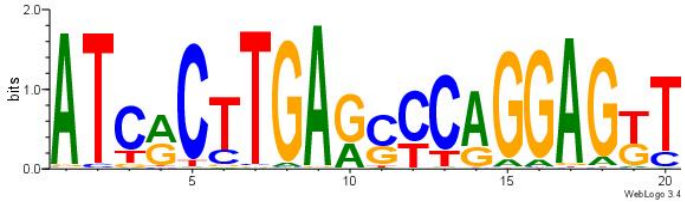

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

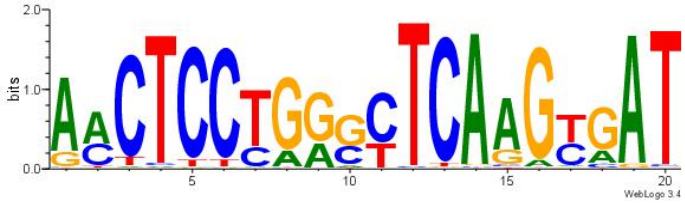

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0863253

Alignment:

```
AGAGCTCTGGCTGGCATCT
------AYGCCTGTAATC-
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

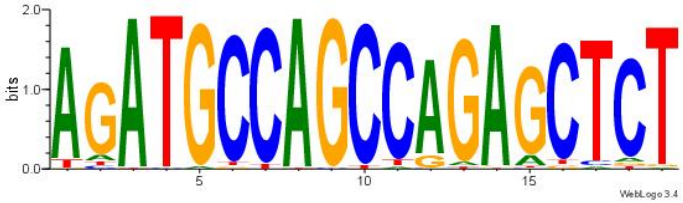

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

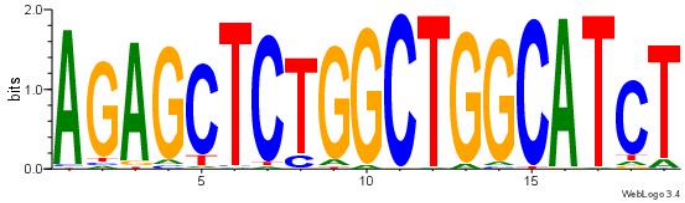

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 12
Similarity score: 0.0868674

Alignment:
TTTTCACATGCCTTTCT
-GATTACAGGCMT----

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

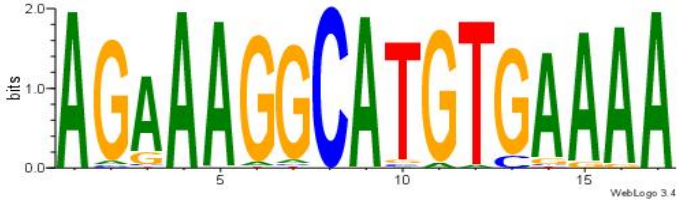

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

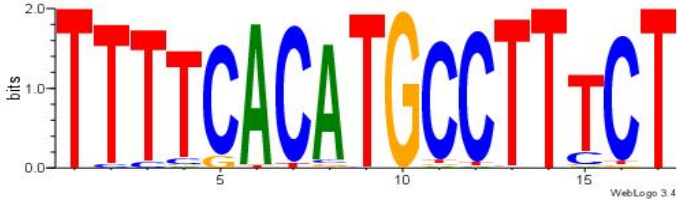

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.086947

Alignment:
HAGTGGKATTGCTGGATCAT
------GATTACAGGCMT--

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

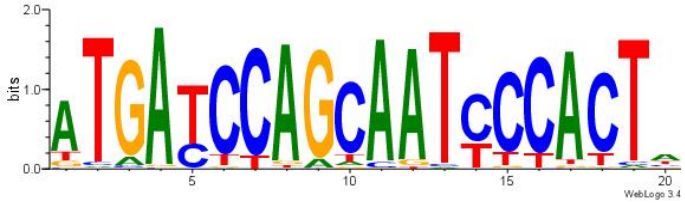

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

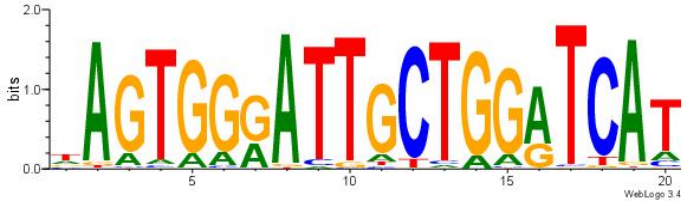

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.087492

Alignment:

```
CCCAAATCCTATAAAA
----AYGCCTGTAATC
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

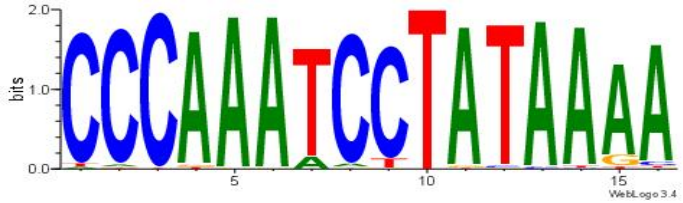

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

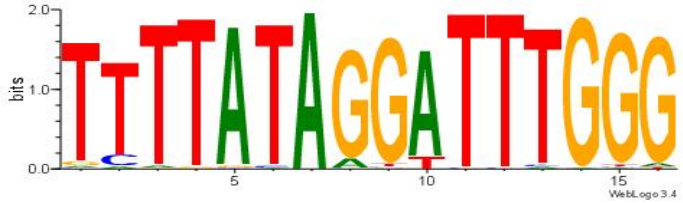

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0879862

Alignment:

```
AATCAACCCTGGYRATCAAT
-----AYGCCTGTAATC---
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

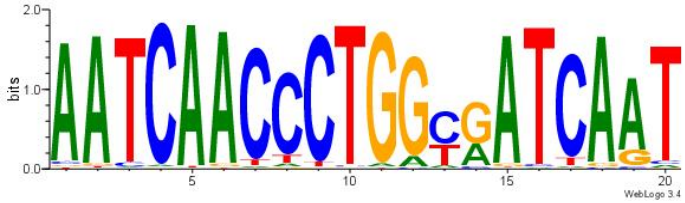

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

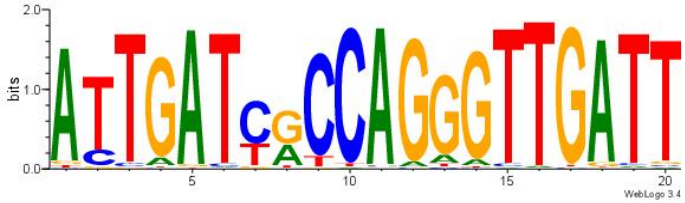

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 12
Similarity score: 0.0889633

Alignment:
CAAASCKGTCATAGGCCAT
-AYGCCTGTAATC------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

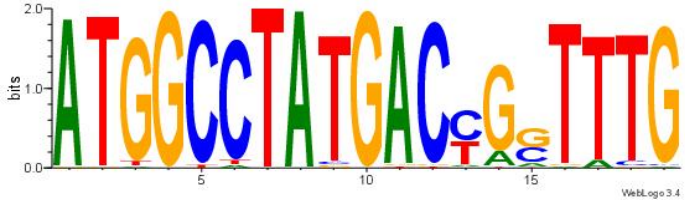

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

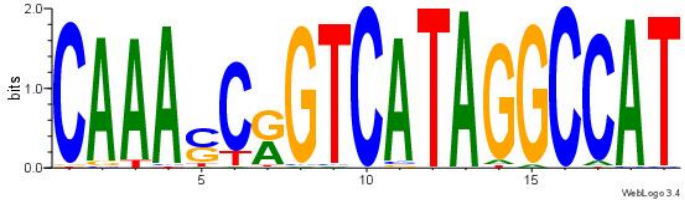

Dataset #: 1
Motif ID: 276
Motif name: Motif 276
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0896346

Alignment:
TTCCTAACAGGCCA
--GATTACAGGCMT

Original motif Consensus sequence: TGGCCTGTTAGGAA

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

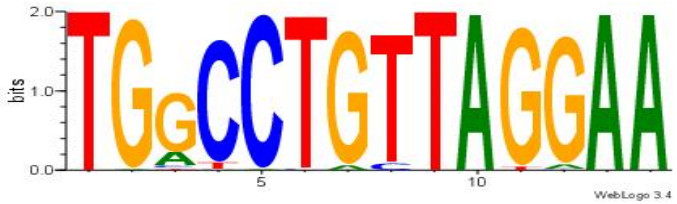

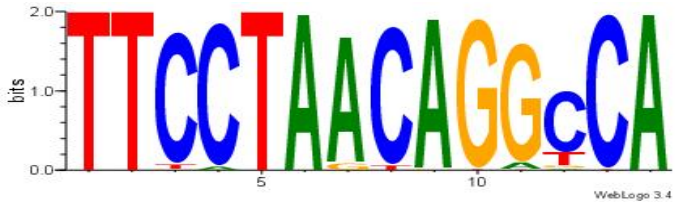

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0896976

Alignment:

```
AATGAGTTAAGACTTTG
---GATTACAGGCMT--
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

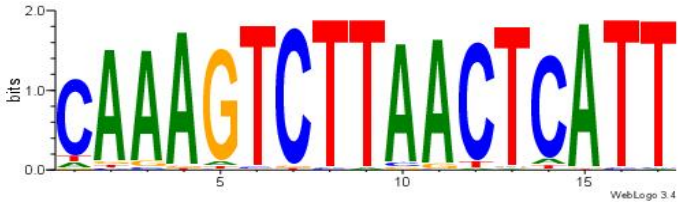

Dataset #: 1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0900169

Alignment:

```
GGGGTGACAGABGB
GATTACAGGCMT--
```

Original motif Consensus sequence: GGGGTGACAGABGB

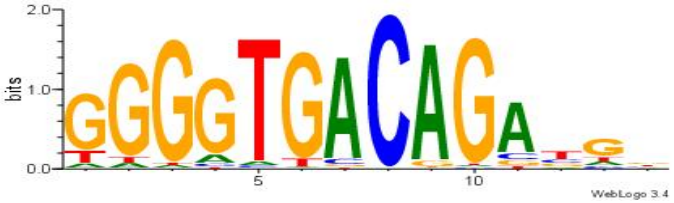

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

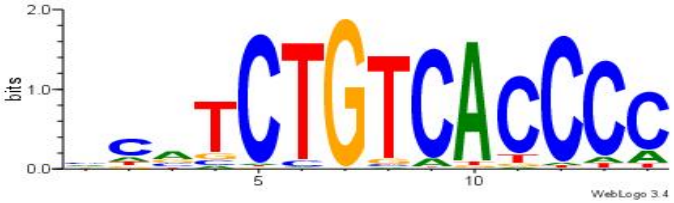

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0900627

Alignment:
CCATGATTGTRAGG
--AYGCCTGTAATC

Original motif Consensus sequence: CCATGATTGTRAGG

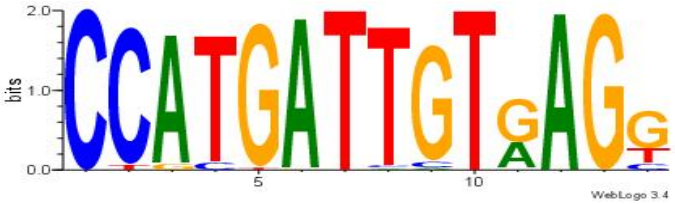

Reverse complement motif Consensus sequence: CCTMACAATCATG

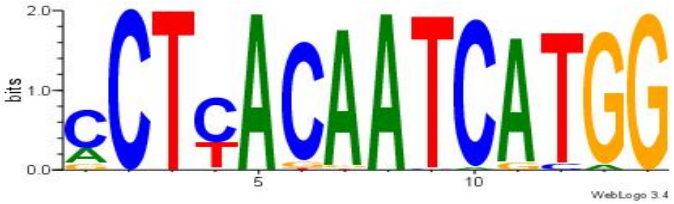

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0901258

Alignment:
AGTGAGAACATRYRRTRTTT
-----GATTACAGGCMT---

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

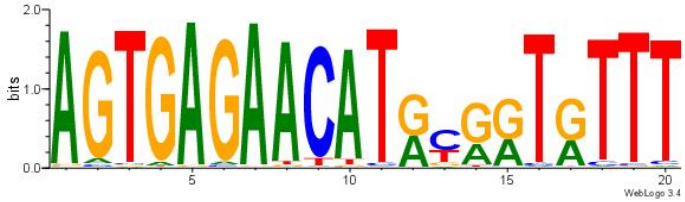

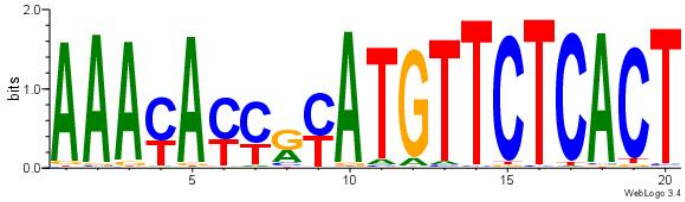

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0916431

Alignment:

```
ATCTCASAAATCACCACTA
AYGCCTGTAATC-------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

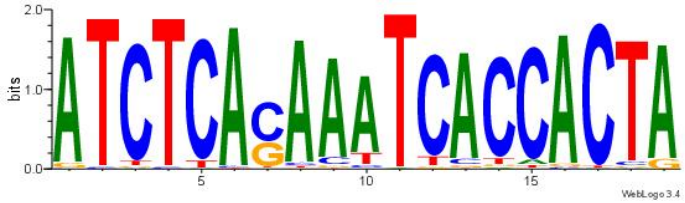

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

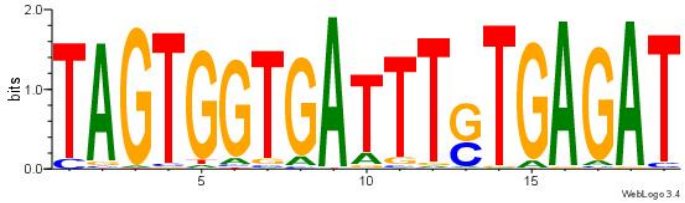

Dataset #:	1

Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0919946

Alignment:

```
GGTTCAAGCGATT
GATTACAGGCMT-
```

Original motif Consensus sequence: AATCGCTTGAACC

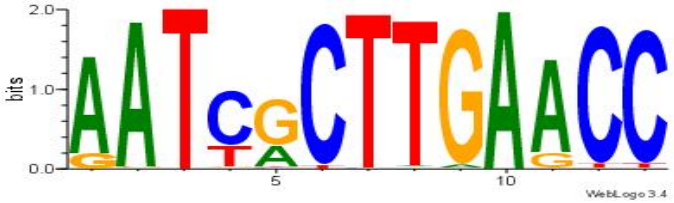

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0924946

Alignment:
AGCTGTGAGAAGAGGGCCAC
------GATTACAGGCMT--

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

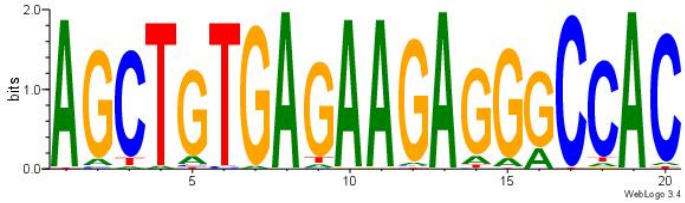

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

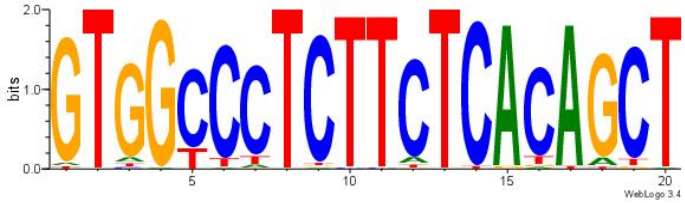

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0926362

Alignment:
AAGAGGTTTAATTGRCTCA
-----GATTACAGGCMT--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

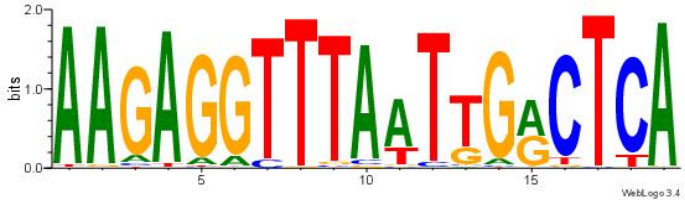

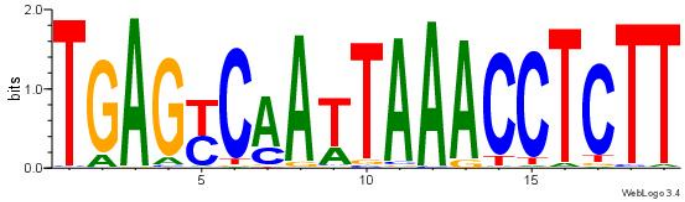

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0935948

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
------GATTACAGGCMT--
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

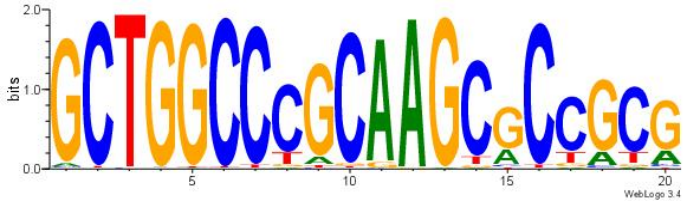

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

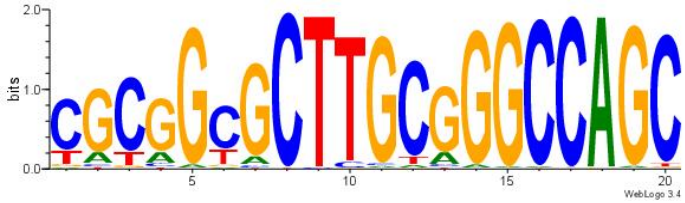

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0942046

Alignment:

```
AAGTTCTKGGKTACATGTGC
--------GATTACAGGCMT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

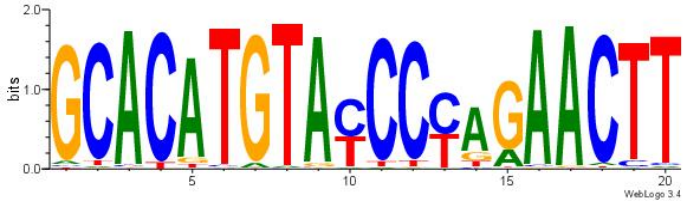

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

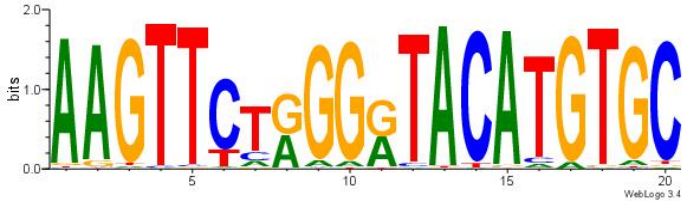

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.094339

Alignment:
AATGAKATCATGTCYTTTGC
---AYGCCTGTAATC-----

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

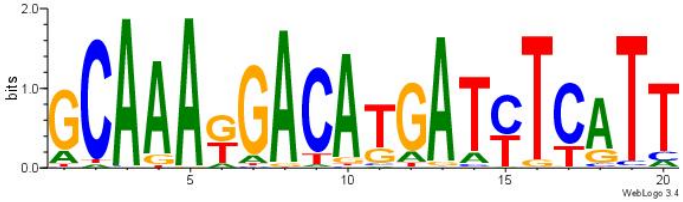

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

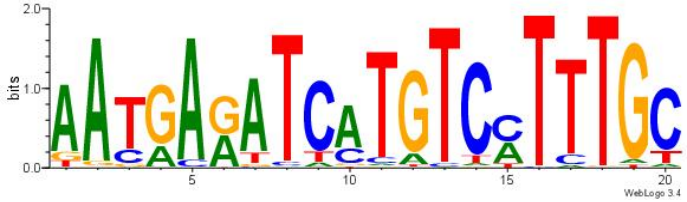

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0956193

Alignment:
GTTAACTGTAAAACAGCCT
-AYGCCTGTAATC------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

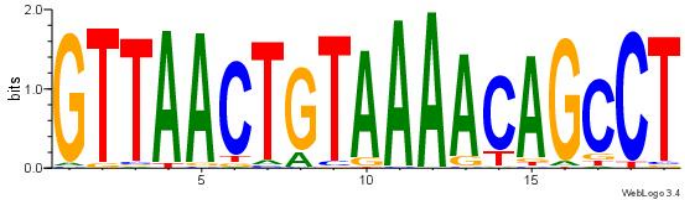

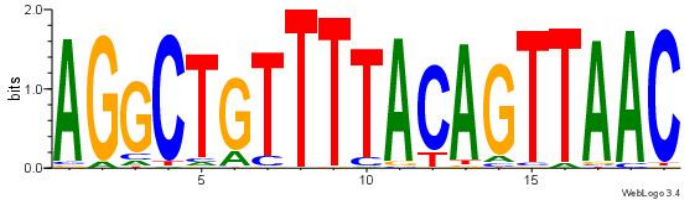

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0959664

Alignment:

```
GAGAACACATGGACA
--GATTACAGGCMT-
```

Original motif Consensus sequence: GAGAACACATGGACA

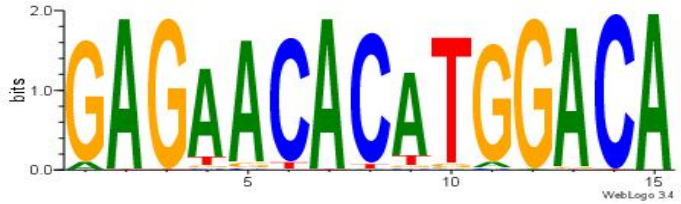

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

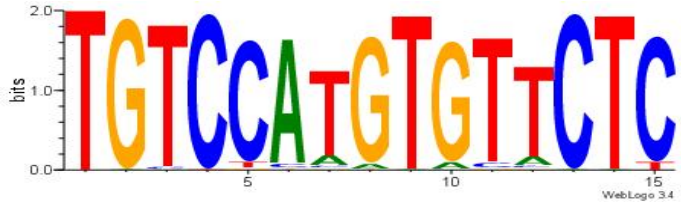

Dataset #:	1
Motif ID:	357

Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0961791

Alignment:

```
CAAGTTGACACATAAAATTA
-------AYGCCTGTAATC-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

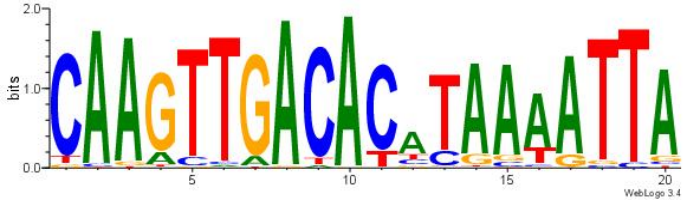

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

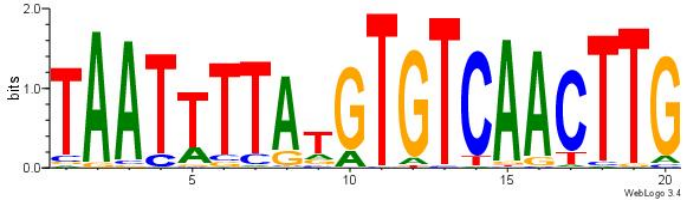

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0965462

Alignment:
CCCACACCCTTATTA
---AYGCCTGTAATC

Original motif Consensus sequence: CCCACACCCTTATTA

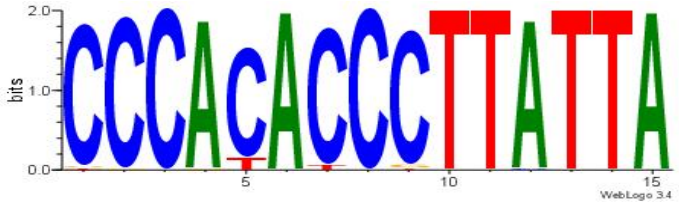

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

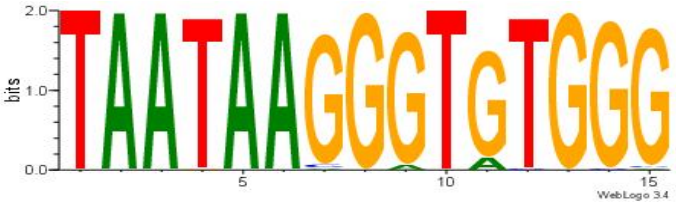

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0971887

Alignment:
ACCCAATWTGTAGTCTTTTA
---AYGCCTGTAATC-----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

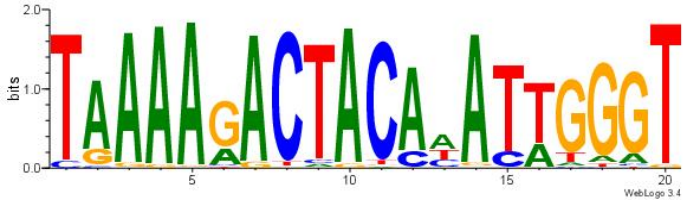

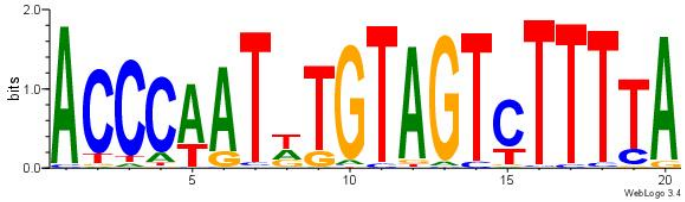

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0982118

Alignment:

```
GAGSTTGCAGTGAGC
--GATTACAGGCMT-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

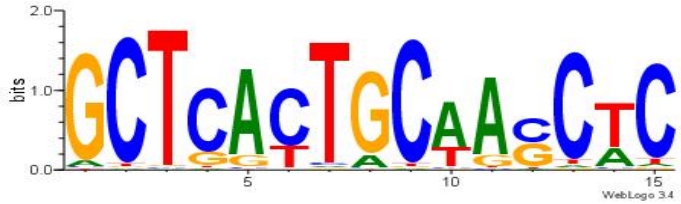

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

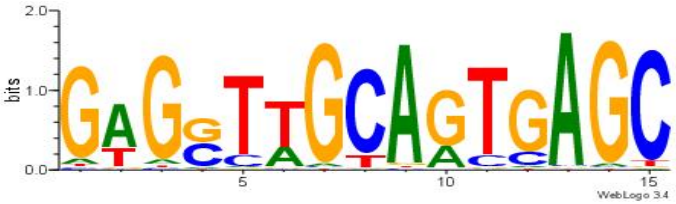

Dataset #:	1
Motif ID:	192

Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0984076

Alignment:

```
GAATCCTGGGACAGCCTGT
GATTACAGGCMT-------
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

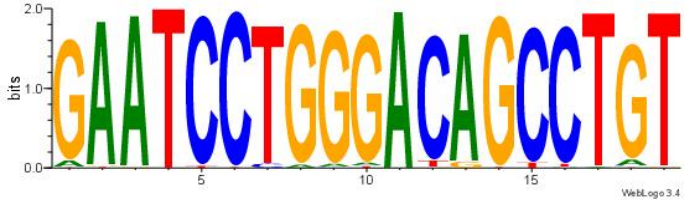

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

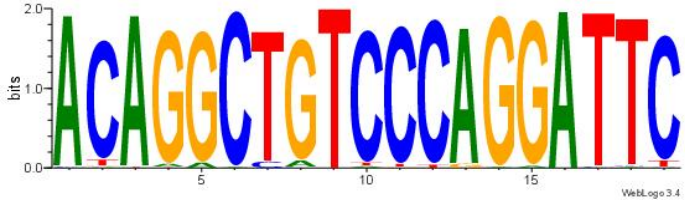

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0984721

Alignment:
AGGAACAGCTCCRGTCTAC
----AYGCCTGTAATC---

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

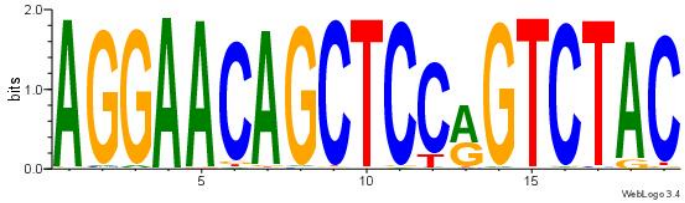

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

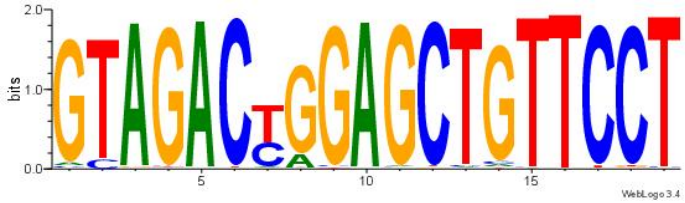

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.098647

Alignment:
ACATCTGYMMCC
AYGCCTGTAATC

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

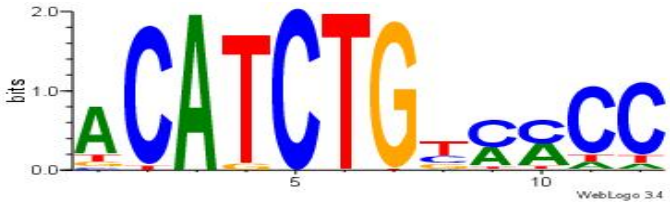

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.098768

Alignment:

```
KGAGAACAGTAGGG
-GATTACAGGCMT-
```

Original motif Consensus sequence: CCCTACTGTTCTCY

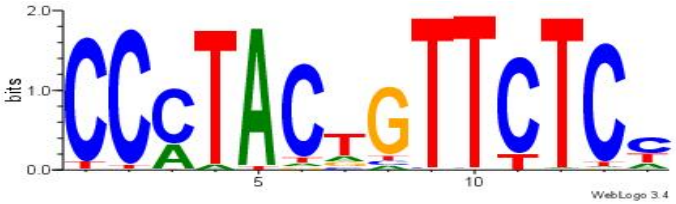

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	140

Motif name:	Motif 140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0989753

Alignment:

```
CTCCATGAAGTC
AYGCCTGTAATC
```

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

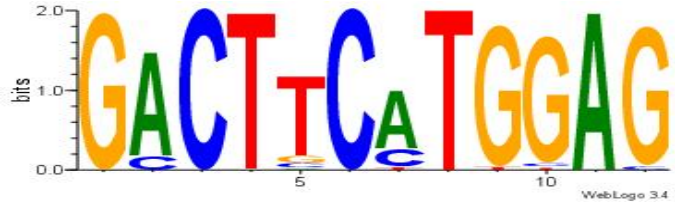

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0995931

Alignment:
AGCAGYTTGGAAACACT
--AYGCCTGTAATC---

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

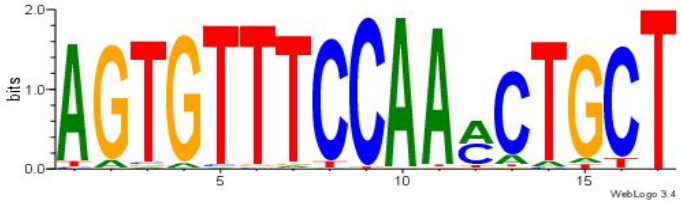

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

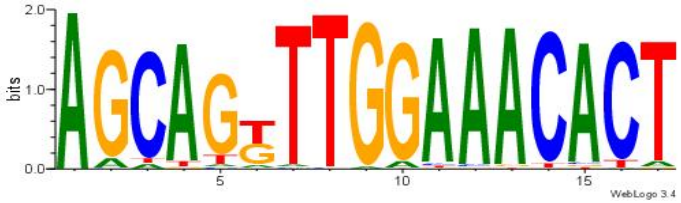

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0996912

Alignment:
AGCAGCTGTAAATA
-AYGCCTGTAATC-

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

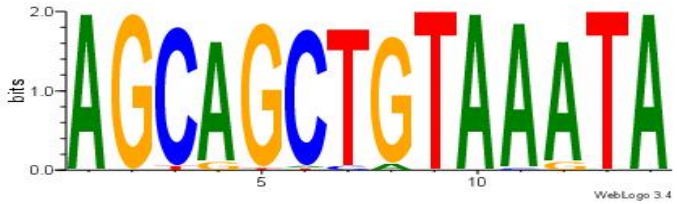

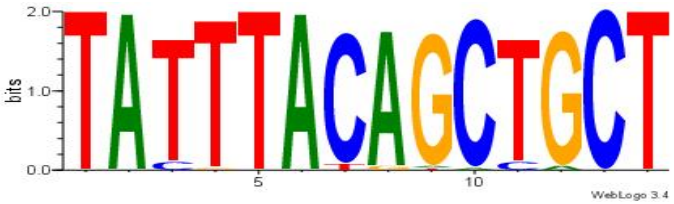

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0997157

Alignment:

```
GGGATTGTAAATACACCAAT
--------GATTACAGGCMT
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

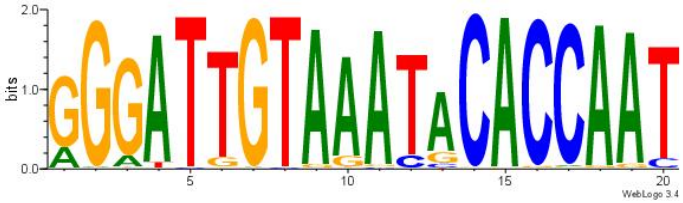

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0998488

Alignment:

```
TCKMGCCACTGCACTCCAGC
----AYGCCTGTAATC----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

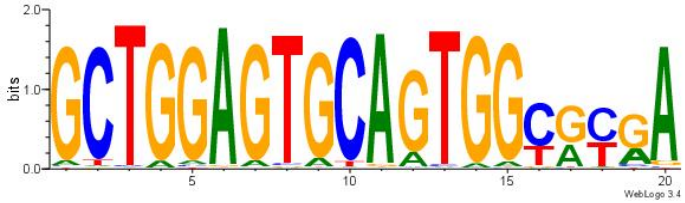

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

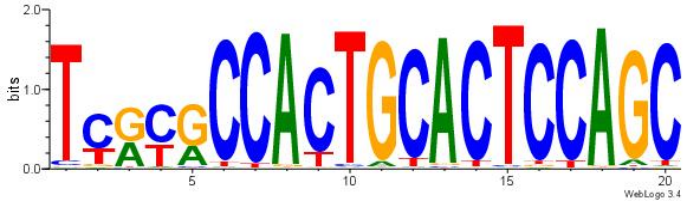

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0999638

Alignment:
AGCCTCCAGAACTGT
-GATTACAGGCMT--

Original motif Consensus sequence: AGCCTCCAGAACTGT

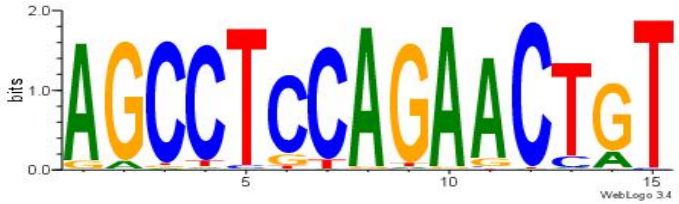

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.100046

Alignment:
AATTAAAAGACACAGACTG
GATTACAGGCMT-------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

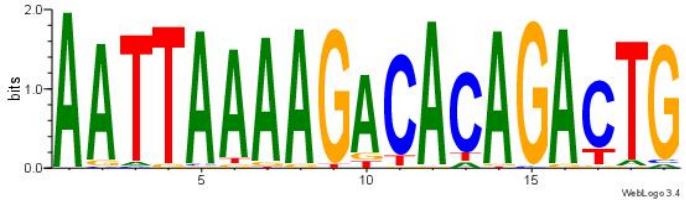

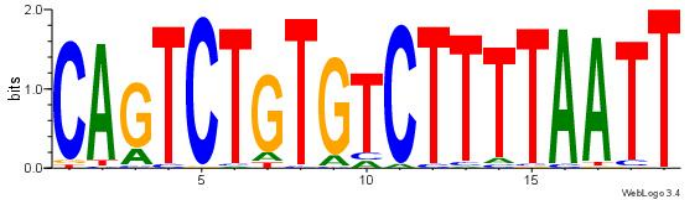

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.100584

Alignment:

```
CTCCAGKTMCATCCATGTTG
----GATTACAGGCMT----
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

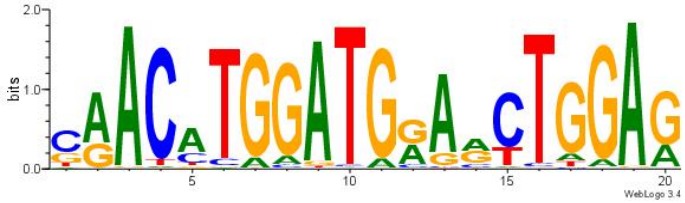

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

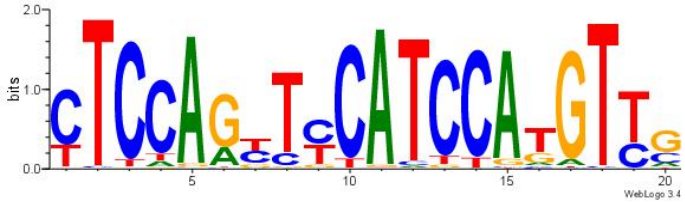

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.100667

Alignment:

```
CAGCTACTCKTATACCCTTG
-----AYGCCTGTAATC---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

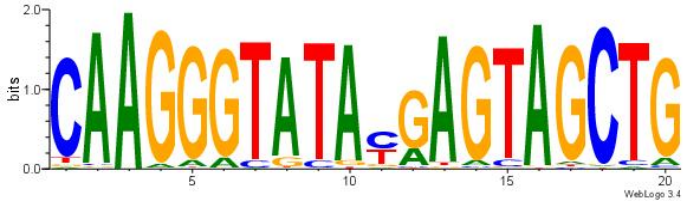

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

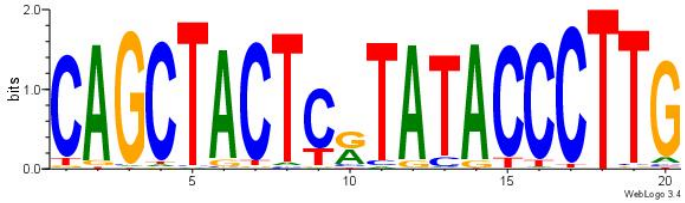

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.100965

Alignment:
GAAAAGCGCAGTATTMGGG
----AYGCCTGTAATC---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

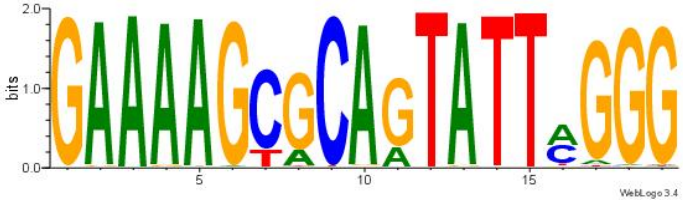

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

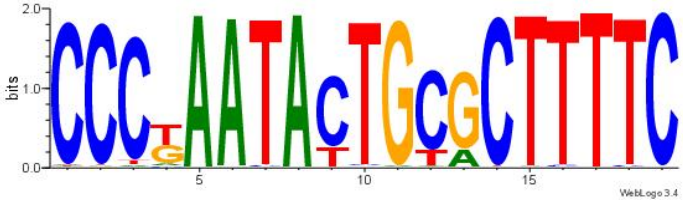

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.101399

Alignment:
ACACCTATTCGCACAC
AYGCCTGTAATC----

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

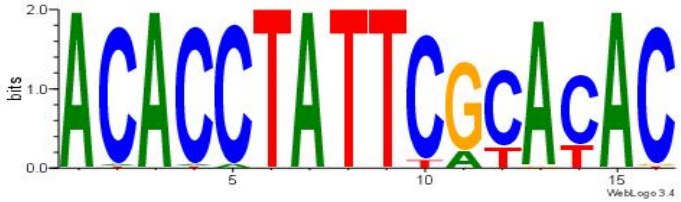

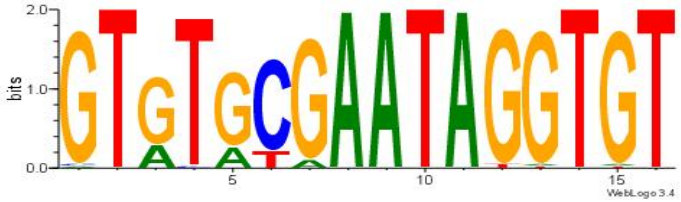

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102247

Alignment:

```
ACAGCTGGCACC
AYGCCTGTAATC
```

Original motif Consensus sequence: ACAGCTGGCACC

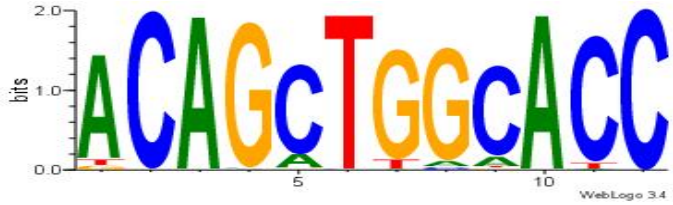

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

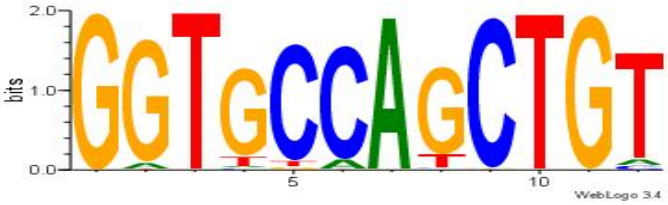

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.102448

Alignment:

```
GCCAATTTCTCCCATTTGGA
---GATTACAGGCMT-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

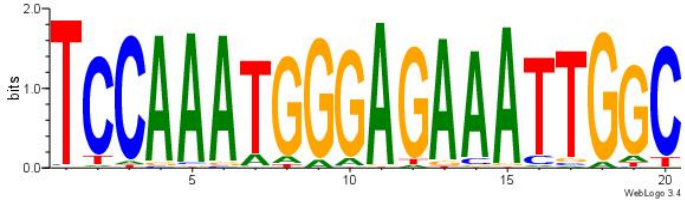

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

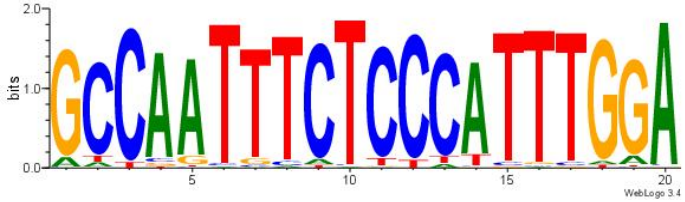

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.103002

Alignment:
AAAAGTCCACAGTCCAAAGT
--AYGCCTGTAATC------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

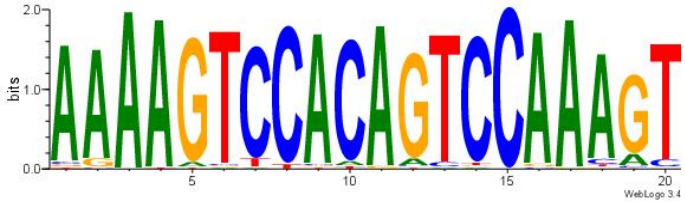

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

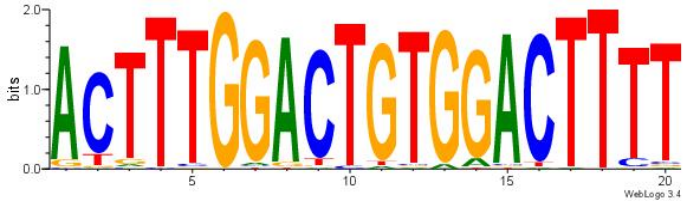

Dataset #: 1 Motif ID: 127 Motif name: Motif 127

Original motif Consensus sequence: CCCCAACCCC

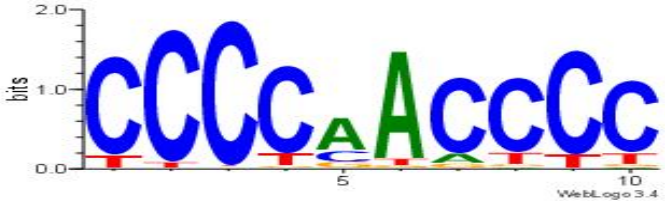

Reverse complement motif Consensus sequence: GGGGTTGGGG

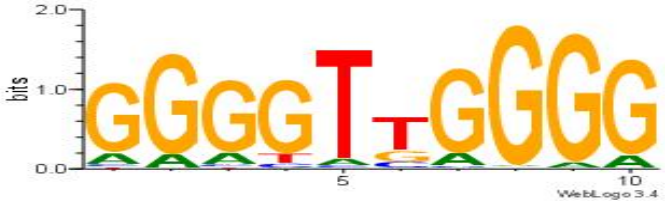

Best Matches for Motif ID 127 (Highest to Lowest)

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 1
Number of overlap: 10
Similarity score: 0.0369517

Alignment:
CCCCWCCCCCA
CCCCAACCCC-

Original motif Consensus sequence: CCCCWCCCCCA

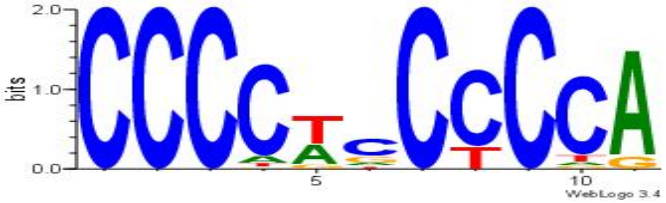

Reverse complement motif Consensus sequence: TGGGGGWGGGG

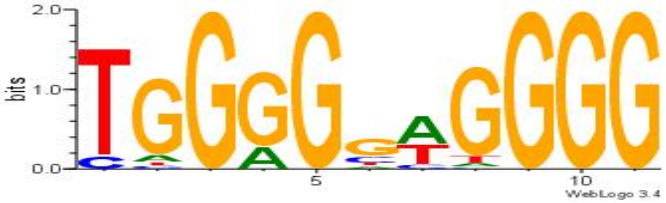

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0650488

Alignment:
GGGGGCTGACCCCCCCACC
---------CCCCAACCCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

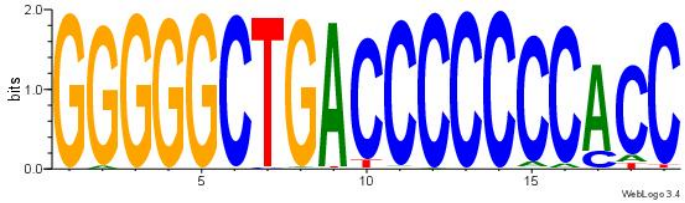

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

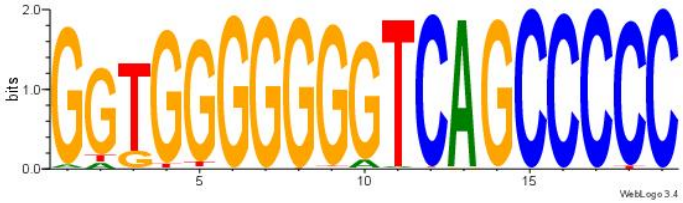

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0661693

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------GGGGTTGGGG----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

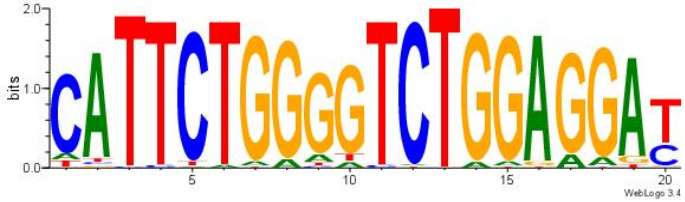

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

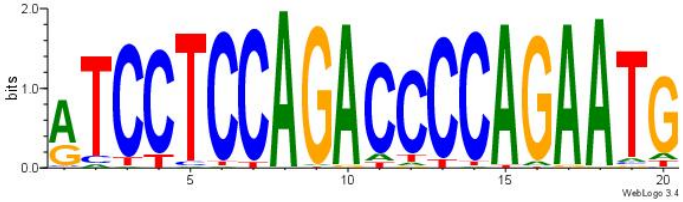

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0688836

Alignment:

```
TAATAAGGGTGTGGG
-----GGGGTTGGGG
```

Original motif Consensus sequence: CCCACACCCTTATTA

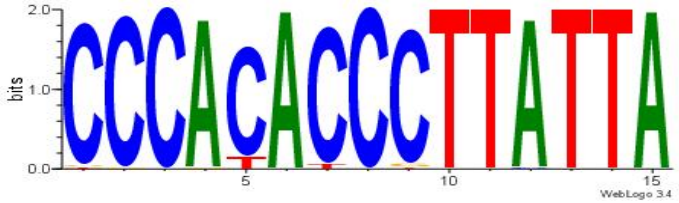

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

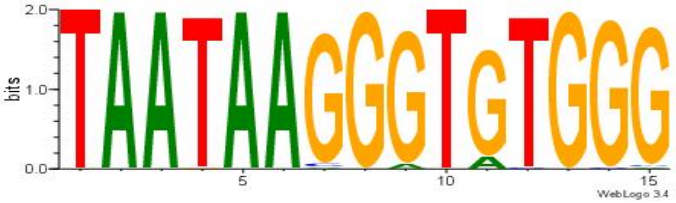

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0693706

Alignment:
GGAGGTGTGGAGGGAGAGGC
---GGGGTTGGGG-------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

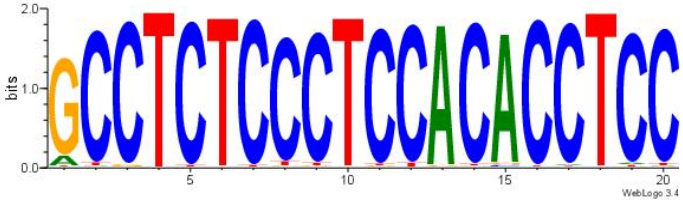

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

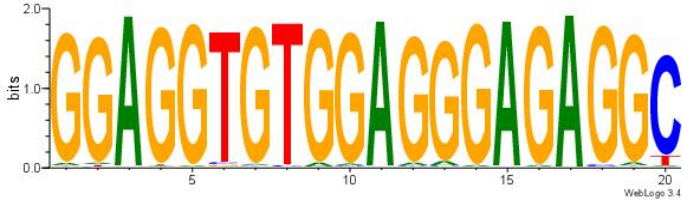

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0694111

Alignment:
AGTTCCGGGTGGGCGTGGG
----GGGGTTGGGG-----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

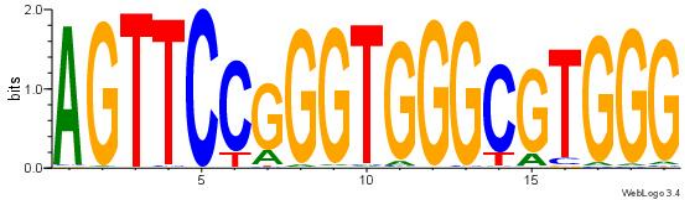

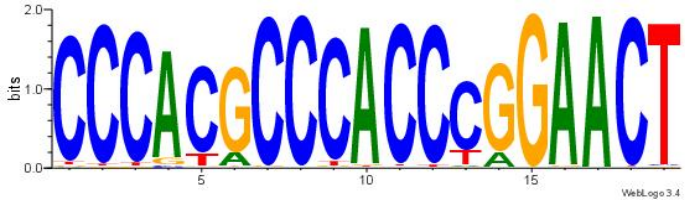

Dataset #:	1
Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0703071

Alignment:

```
GGGACTTGGG
GGGGTTGGGG
```

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	26

Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0708859

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
------CCCCAACCCC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

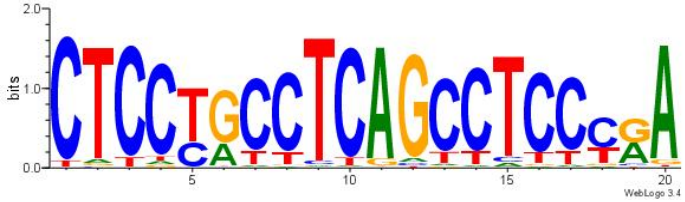

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

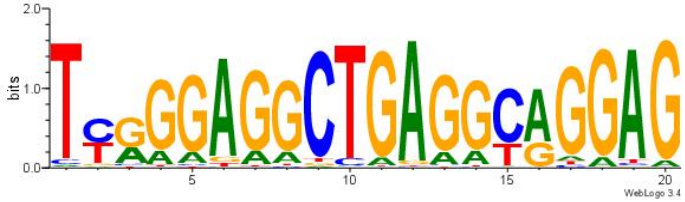

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0725136

Alignment:
CCCAAATCCTATAAAA
CCCCAACCCC------

Original motif Consensus sequence: CCCAAATCCTATAAAA

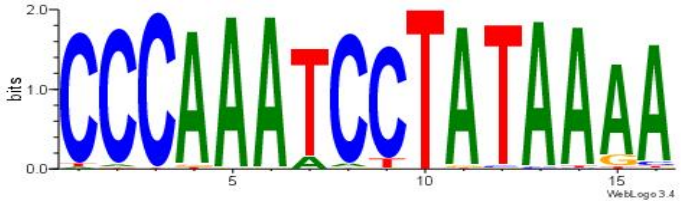

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

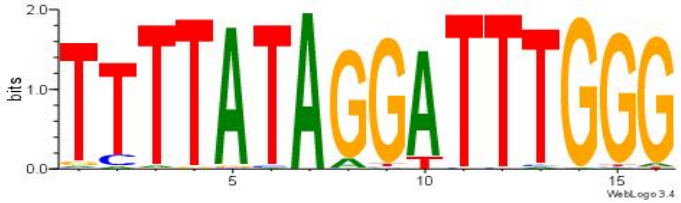

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0727658

Alignment:
CGTCCATCACCCC
---CCCCAACCCC

Original motif Consensus sequence: CGTCCATCACCCC

Reverse complement motif Consensus sequence: GGGGTGATGGACG

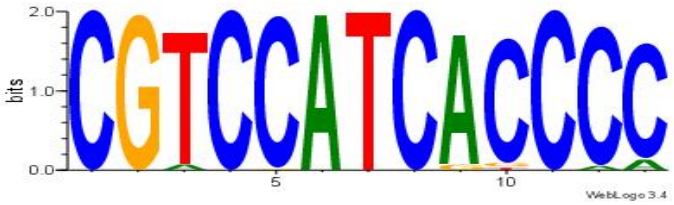

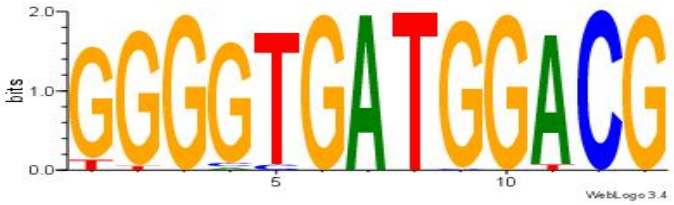

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0730751

Alignment:

```
ATTAGCYRGGCRTGGTGGC
--GGGGTTGGGG-------
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

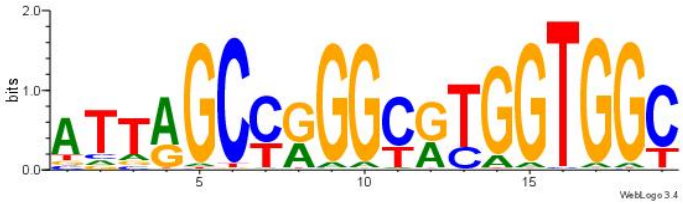

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

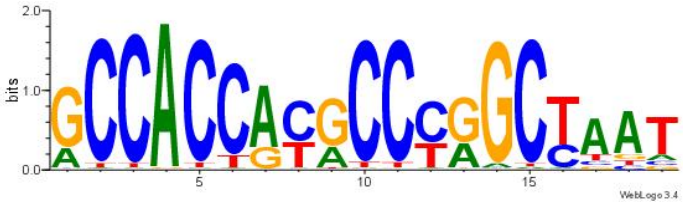

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0734854

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GGGGTTGGGG------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

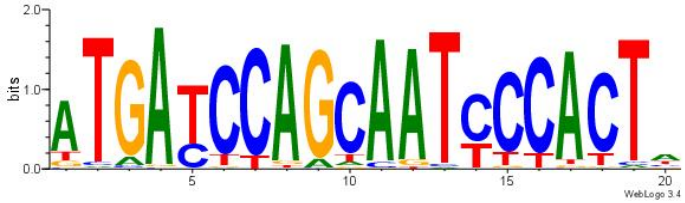

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

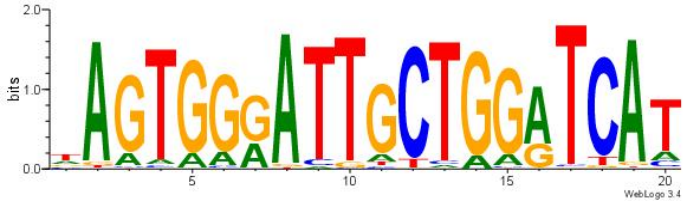

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0744394

Alignment:
GTGTCCCCTTCCTCCC
----CCCCAACCCC--

Original motif Consensus sequence: GGGAGGAAGGGGACAC

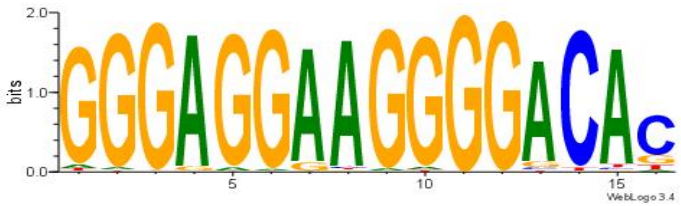

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

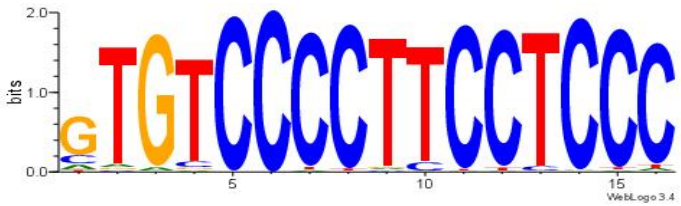

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0758184

Alignment:
CGAGCCCTGCCCCGCGG
---CCCCAACCCC----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

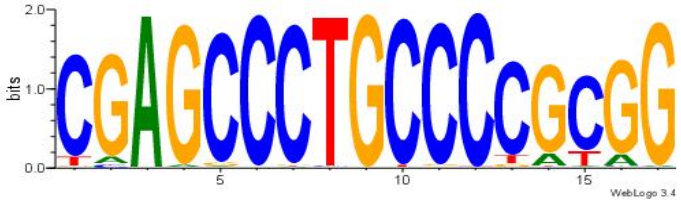

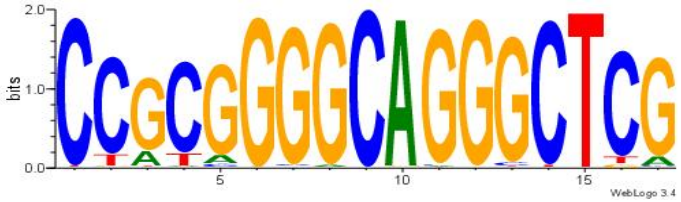

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0768689

Alignment:

```
ATTCAASATGAGATTTGGG
---------GGGGTTGGGG
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

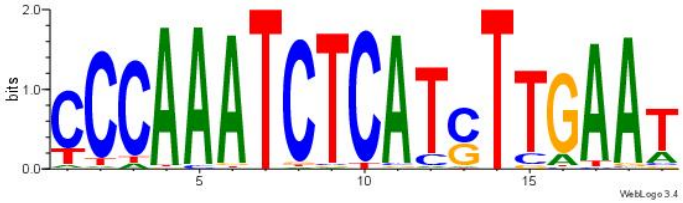

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

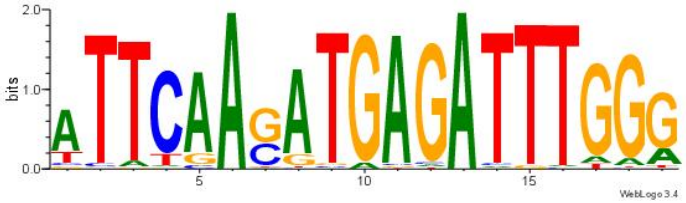

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0773182

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-----GGGGTTGGGG-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

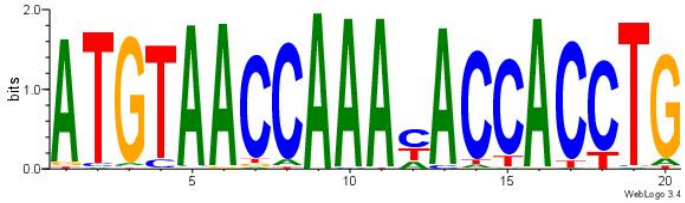

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

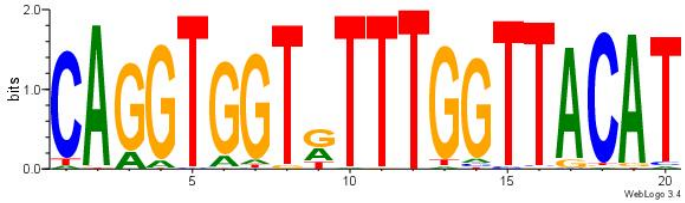

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0807915

Alignment:
GCTGGCCCGCAAGCGCCGCG
------CCCCAACCCC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

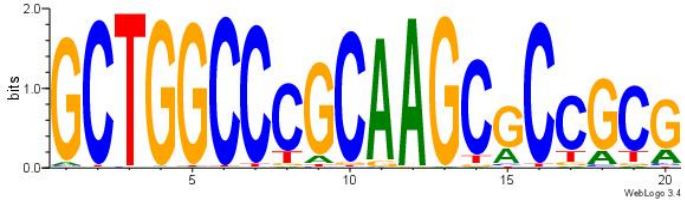

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

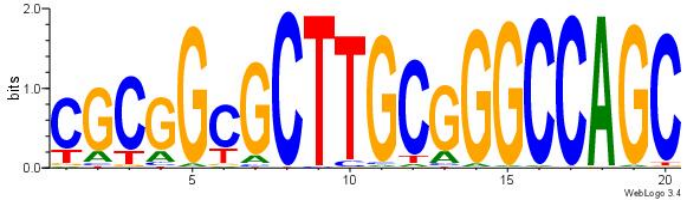

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0811602

Alignment:
CTCCCAGCCGCCTG
-CCCCAACCCC---

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

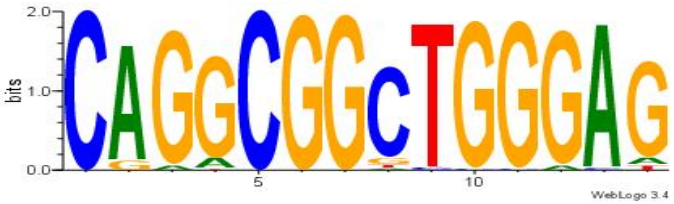

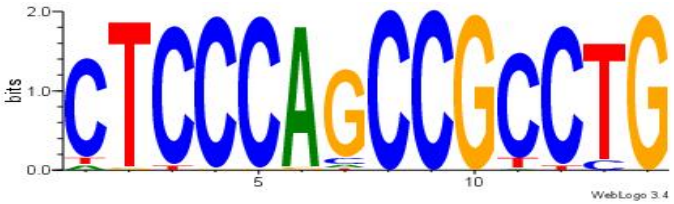

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0813029

Alignment:

```
GGMGCKGTGGCTC
GGGGTTGGGG---
```

Original motif Consensus sequence: GAGCCACYGCRCC

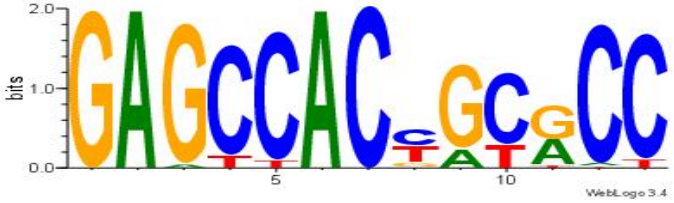

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	111

Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0813298

Alignment:

```
KGGGCDGAGGGGCTCCT
GGGGTTGGGG-------
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

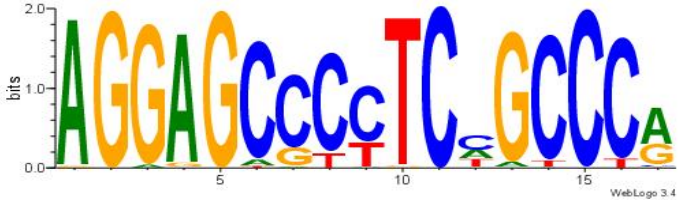

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0814174

Alignment:
CCTCRGCCTCC
CCCCAACCCC-

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0816198

Alignment:
CRTGAGCCACYGYRCCYGGC
------CCCCAACCCC----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

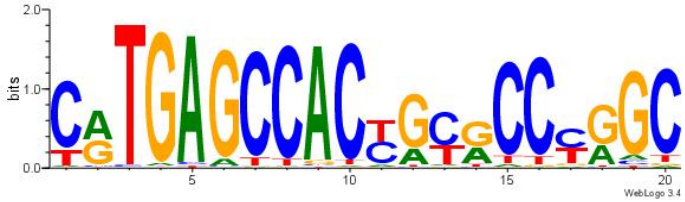

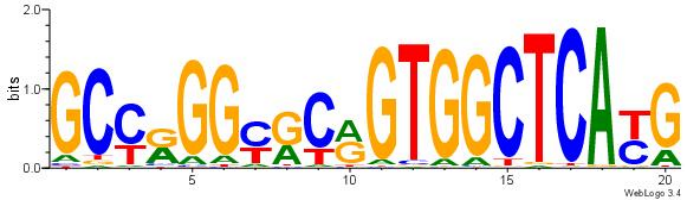

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0820785

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---------CCCCAACCCC-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

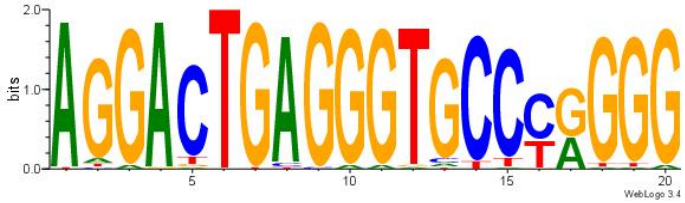

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

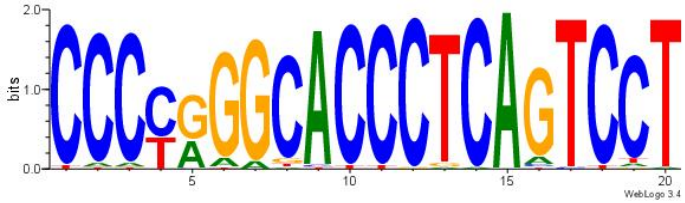

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0824609

Alignment:

```
CCAAGACYCCAGAC
CCCCAACCCC----
```

Original motif Consensus sequence: CCAAGACYCCAGAC

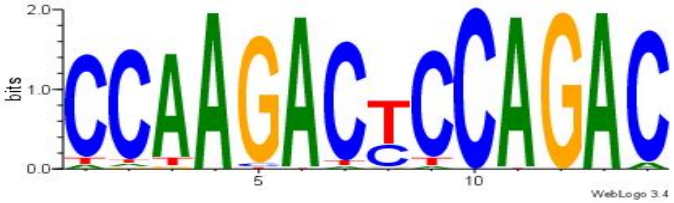

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

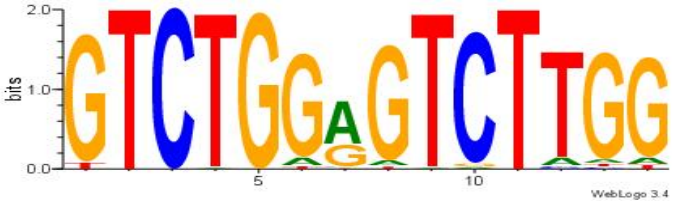

Dataset #:	1
Motif ID:	198
Motif name:	Motif 198
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0826182

Alignment:
TCCCTRCCCT
CCCCAACCCC

Original motif Consensus sequence: AGGGMAGGGA

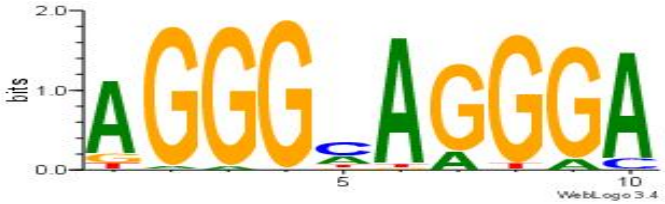

Reverse complement motif Consensus sequence: TCCCTRCCCT

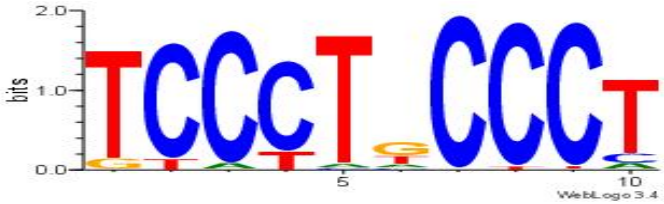

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0827372

Alignment:
ATGTGGAGGTGGAAGACAGT
--GGGGTTGGGG--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

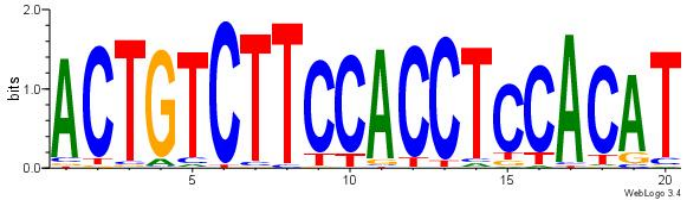

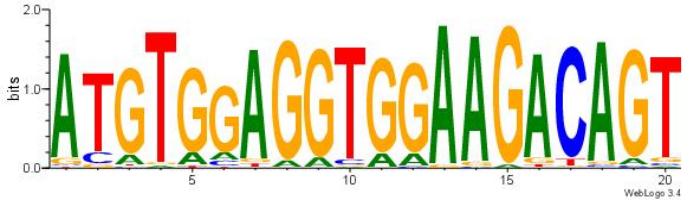

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0833862

Alignment:

```
VCCDCCTCCKCCTCCTC
----CCCCAACCCC---
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

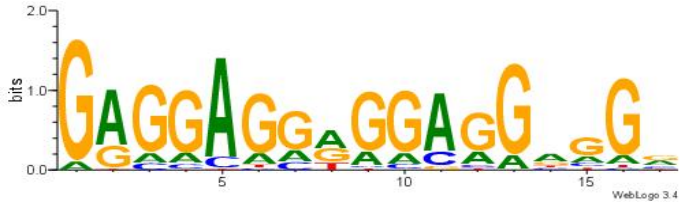

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

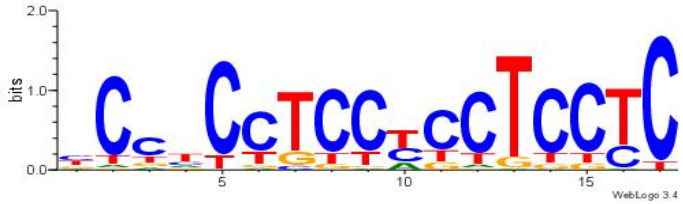

Dataset #:	1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0841455

Alignment:

```
GGGGTGACAGABGB
----GGGGTTGGGG
```

Original motif Consensus sequence: GGGGTGACAGABGB

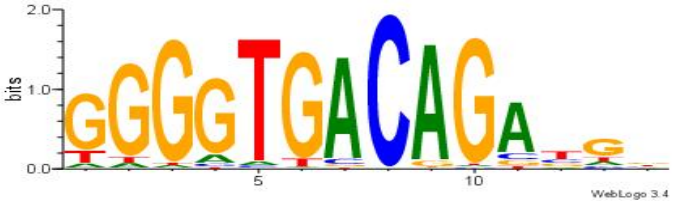

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

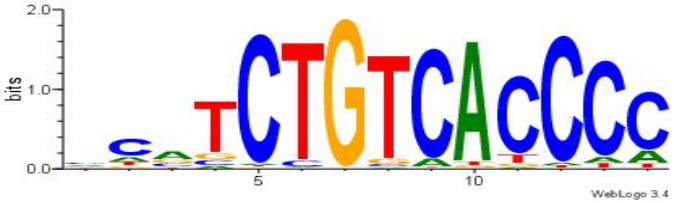

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0845679

Alignment:
GCCCTCACCATCC
-CCCCAACCCC--

Original motif Consensus sequence: GCCCTCACCATCC

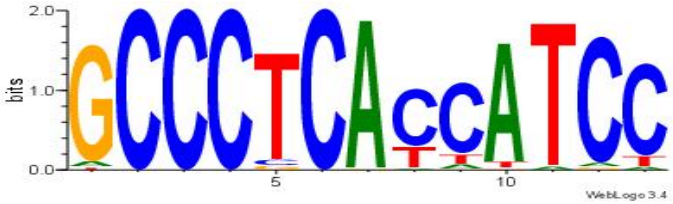

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

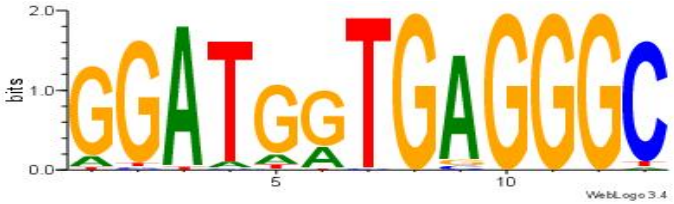

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0850398

Alignment:
CKCGTCSGGGAGG
GGGGTTGGGG---

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGC

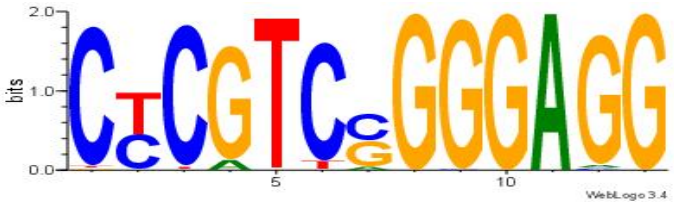

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0850742

Alignment:

```
TCCCTCCCGGACGGGGYGGC
------GGGGTTGGGG----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

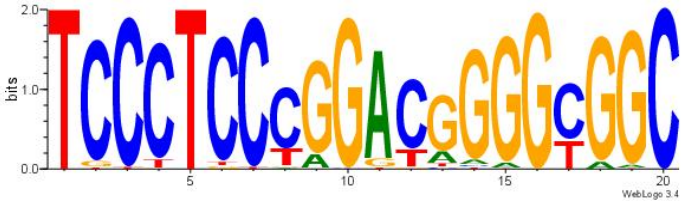

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

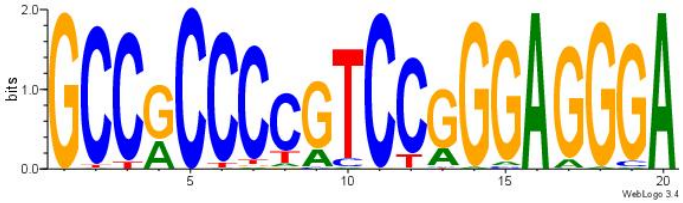

Dataset #: 1

Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.085165

Alignment:

```
AGGCGGCTGGGAGG
--GGGGTTGGGG--
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

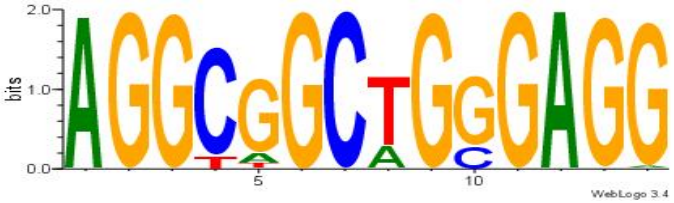

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0852253

Alignment:
GACCAMGAACCCA
--CCCCAACCCC-

Original motif Consensus sequence: GACCAMGAACCCA

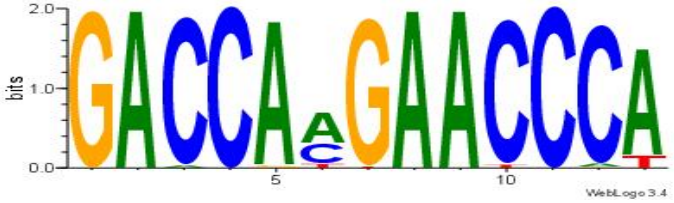

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

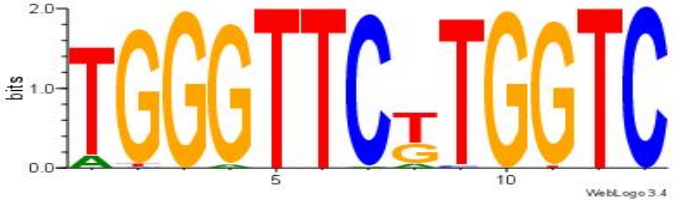

Dataset #:	1
Motif ID:	250
Motif name:	Motif 250
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0855003

Alignment:
CCACCGCTCC
CCCCAACCCC

Original motif Consensus sequence: CCACCGCTCC

Reverse complement motif Consensus sequence: GGAGCGGTGG

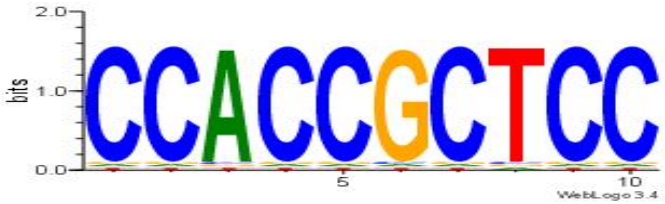

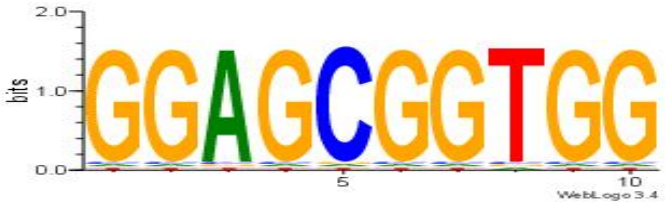

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0860374

Alignment:

```
GCCCTCACCAGAAGC
-CCCCAACCCC----
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

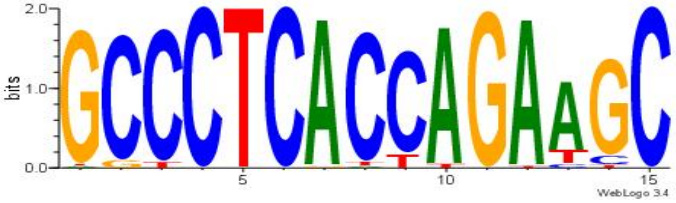

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

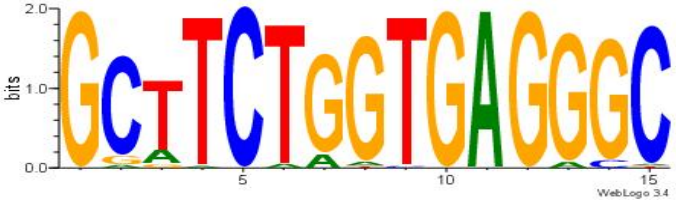

Dataset #:	1
Motif ID:	271

Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0863276

Alignment:

```
AGGGATCTAGGTTGCR
-GGGGTTGGGG-----
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

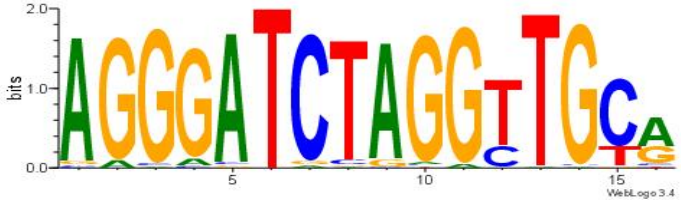

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

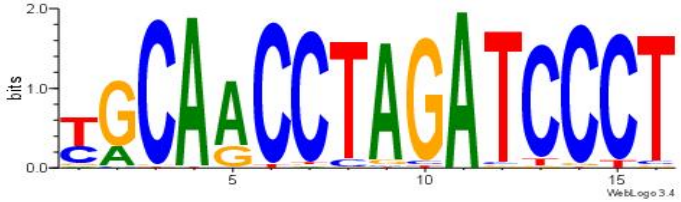

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0868576

Alignment:
GCTCACTGCAASCTC
-----CCCCAACCCC

Original motif Consensus sequence: GCTCACTGCAASCTC

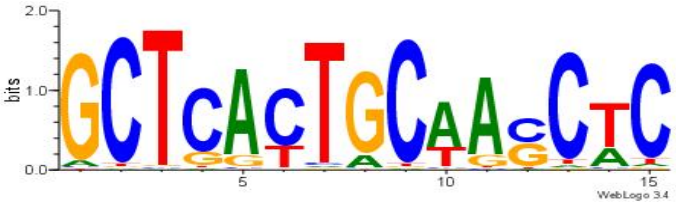

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

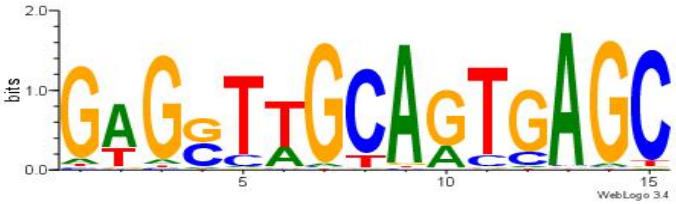

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0871777

Alignment:
CCCTCACTGCCCGGGG
CCCCAACCCC------

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

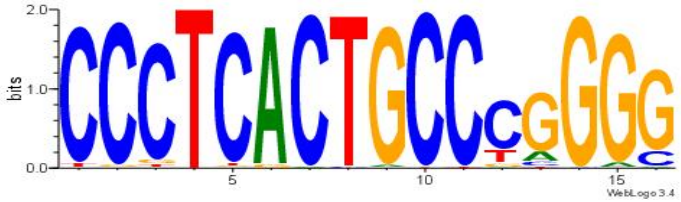

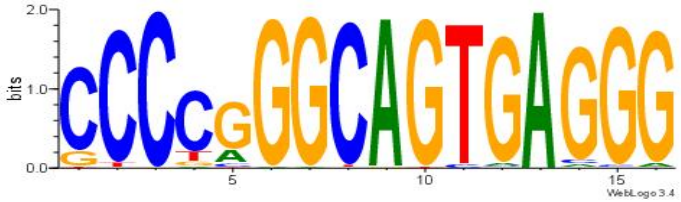

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0874492

Alignment:

```
CTTGGGTGGTCGATGGGAC
-----GGGGTTGGGG----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

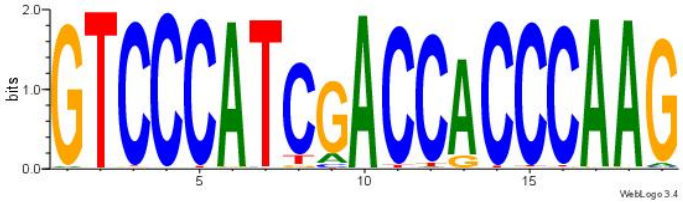

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

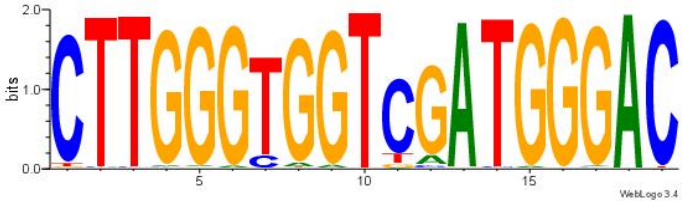

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0876225

Alignment:

```
GAAAAGCGCAGTATTMGGG
GGGGTTGGGG---------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

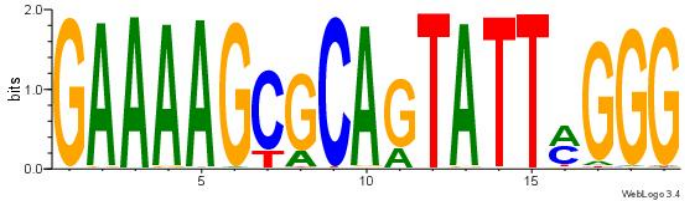

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

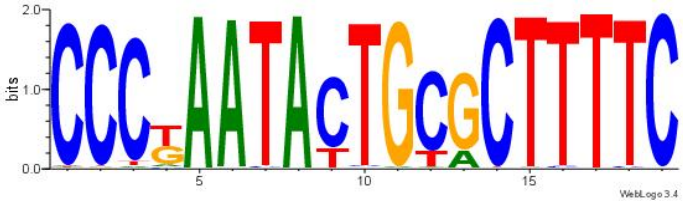

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10

Similarity score: 0.0879359

Alignment:
GGCACTGCTGGGGGACCCAG
----GGGGTTGGGG------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

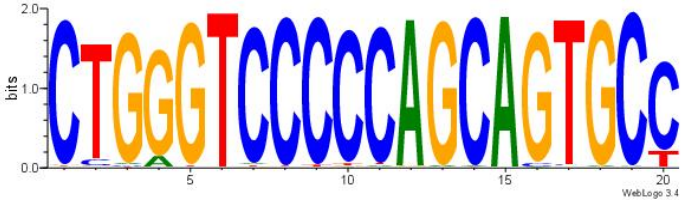

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

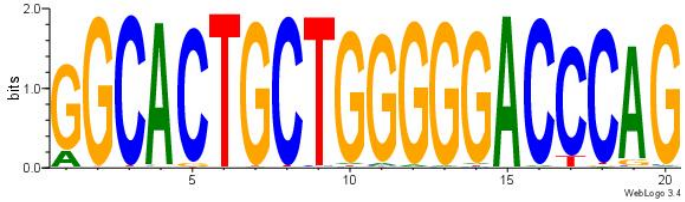

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0891139

Alignment:
GCGCTCKTCGGGGAGGCTCG
---GGGGTTGGGG-------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

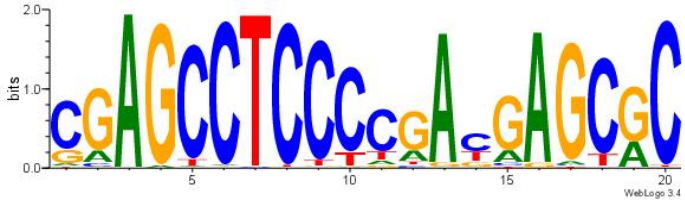

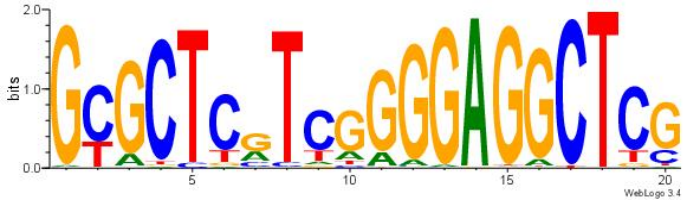

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0896077

Alignment:

```
ATCTGACAGGAGGYRGAGCT
--------GGGGTTGGGG--
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

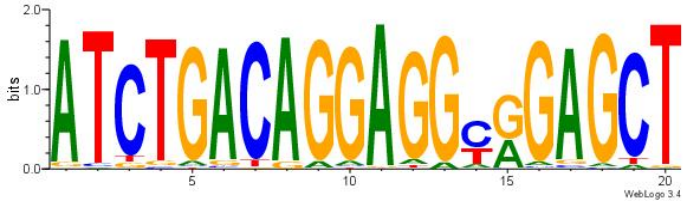

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

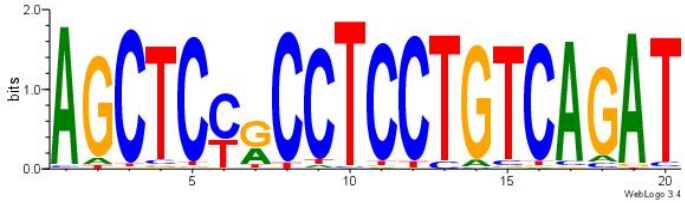

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0897356

Alignment:

```
GTAACACTCACCGCGARGGT
----CCCCAACCCC------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

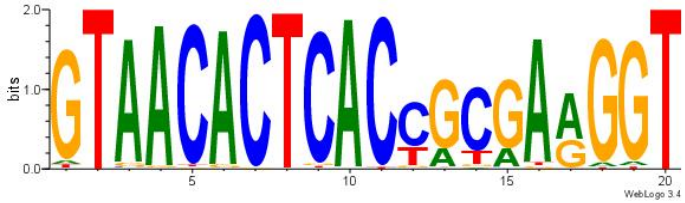

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

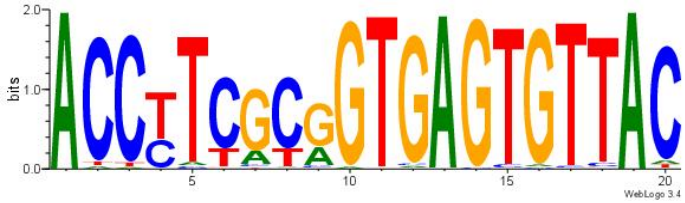

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.089863

Alignment:
GTGTCKGGAGTTTGTTCCTT
------GGGGTTGGGG----

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

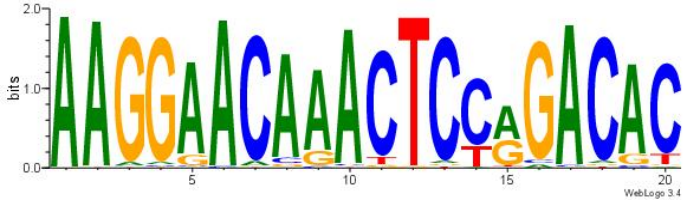

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

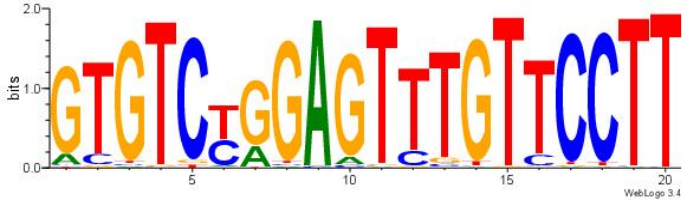

Dataset #: 1
Motif ID: 138
Motif name: Motif 138
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.090234

Alignment:
GGSKGATCTGGCTG
-GGGGTTGGGG---

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

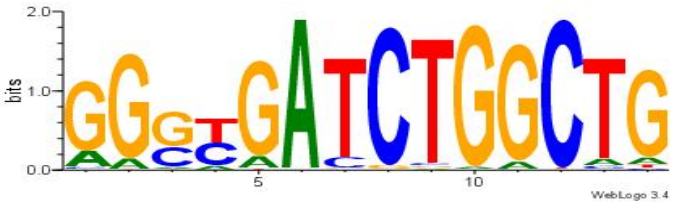

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0905783

Alignment:

```
GATCACGAGGTCAGGAG
-GGGGTTGGGG------
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

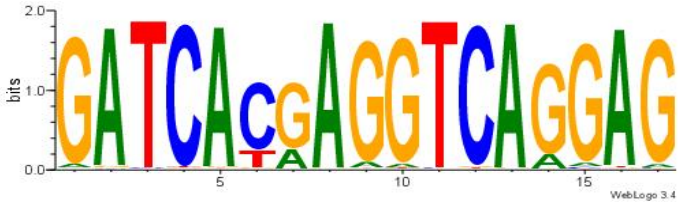

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

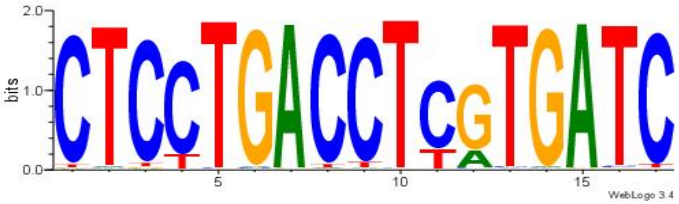

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0910957

Alignment:

```
AAGCTCGAACTGGGTGGAGC
----------GGGGTTGGGG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

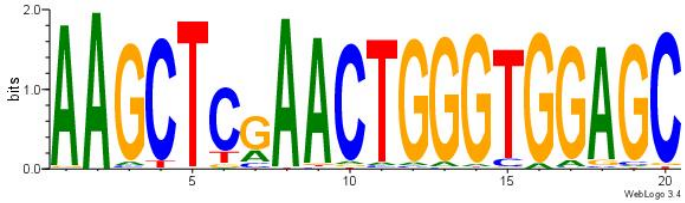

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

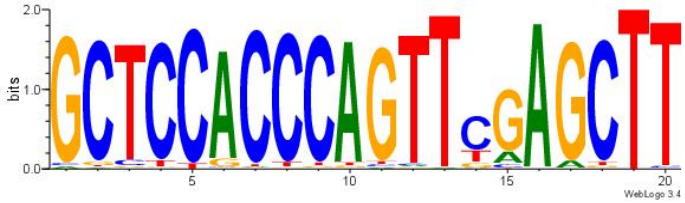

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.0910994

Alignment:
TACCTGAGACTGGGTAATTT
-----GGGGTTGGGG-----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

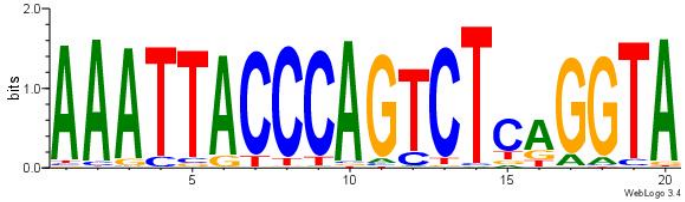

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

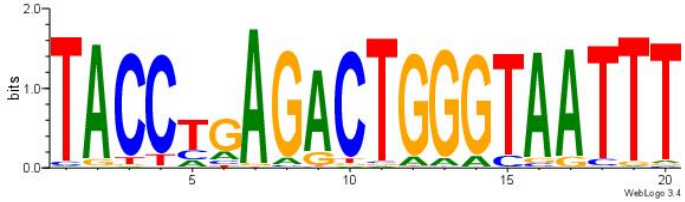

Dataset #: 1
Motif ID: 267
Motif name: Motif 267
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0913045

Alignment:
TCTCAAGTCCAT
CCCCAACCCC--

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

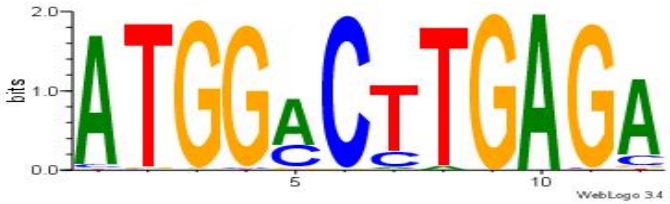

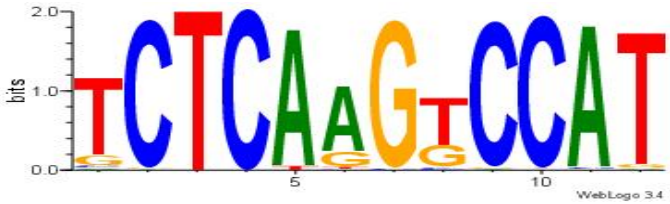

Dataset #: 1 Motif ID: 128 Motif name: Motif 128

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

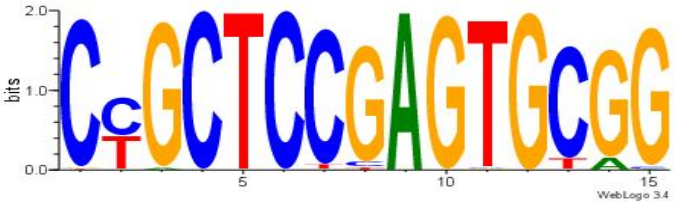

Best Matches for Motif ID 128 (Highest to Lowest)

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0771871

Alignment:

CACCTCCCAGACMGGGT
CMGCTCCGAGTGCGG--

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

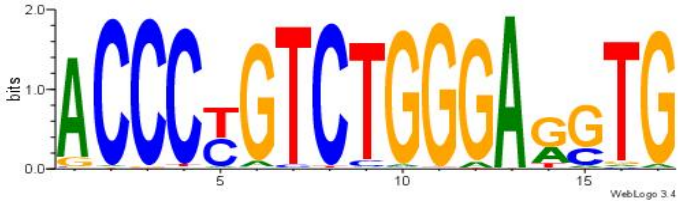

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

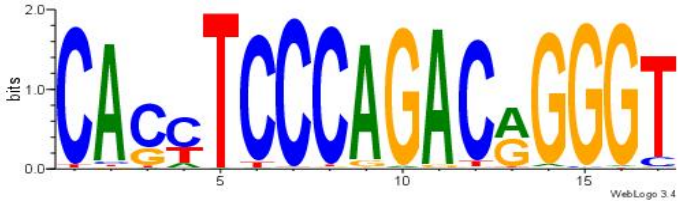

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0895427

Alignment:
AAGCTCGAACTGGGTGGAGC
----CCGCACTCGGAGCRG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

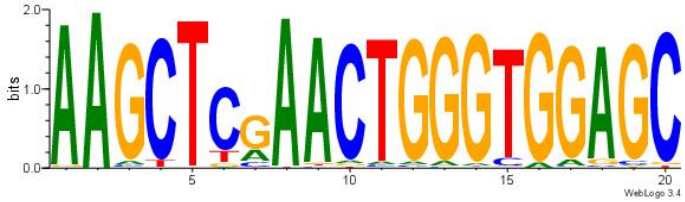

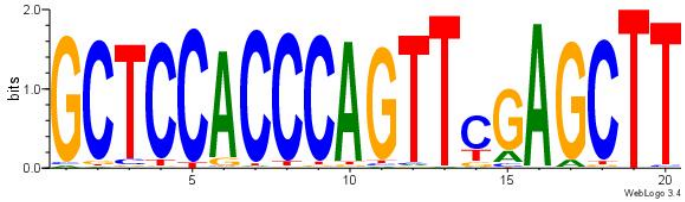

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.090819

Alignment:

```
GCTTAGCACCYGGGCCAGC
---CCGCACTCGGAGCRG-
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

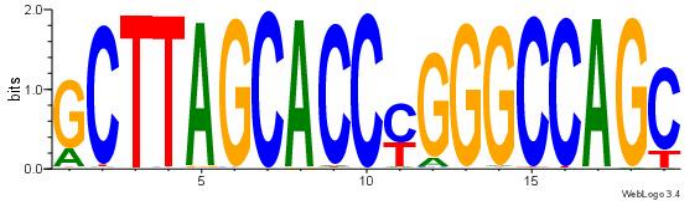

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

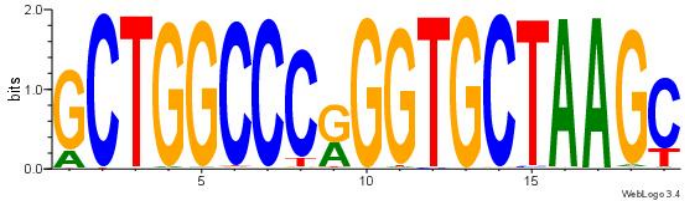

Dataset #:	1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0937468

Alignment:

```
GTACCTCAGWTGGAAATG
CCGCACTCGGAGCRG---
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

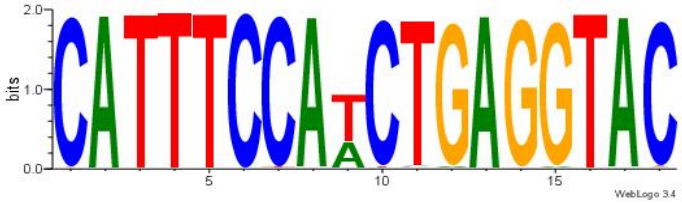

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

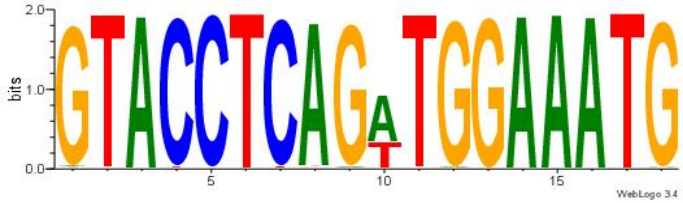

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.0954398

Alignment:
GCTGCARTCTCGGCACTTT
-CCGCACTCGGAGCRG---

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

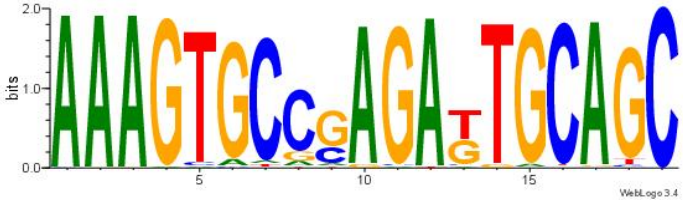

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

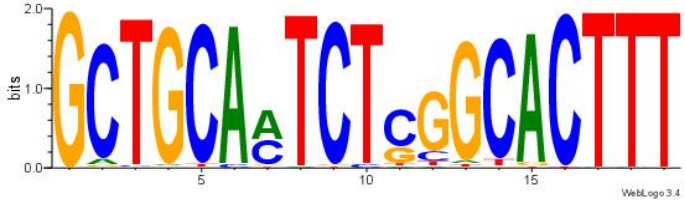

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.096442

Alignment:
GGATCCACTGGGTGAAGCCA
--CCGCACTCGGAGCRG---

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

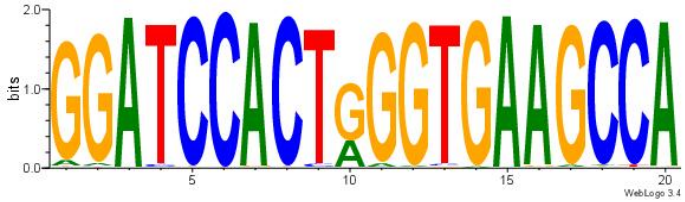

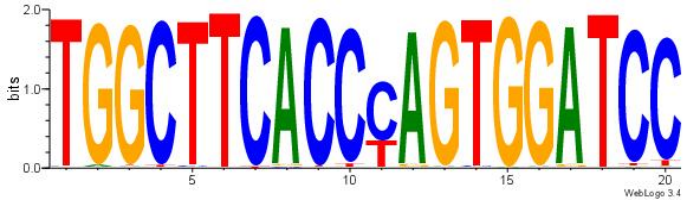

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0971782

Alignment:

```
CCGCTGCACTGTGGGAGCCC
---CCGCACTCGGAGCRG--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

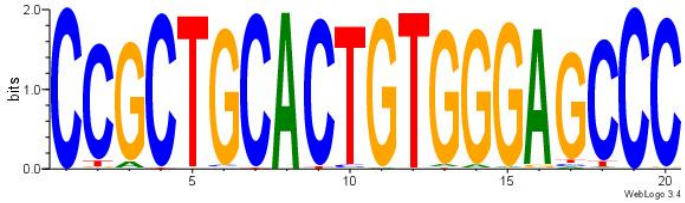

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

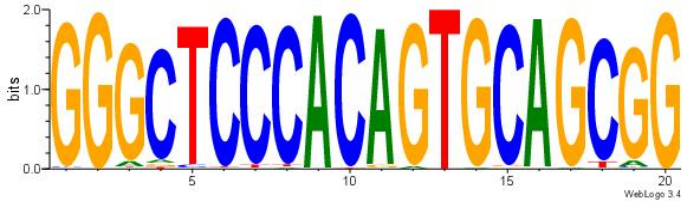

Dataset #:	1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0977829

Alignment:

```
ACGCCCACGGAGTCTC
CCGCACTCGGAGCRG-
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

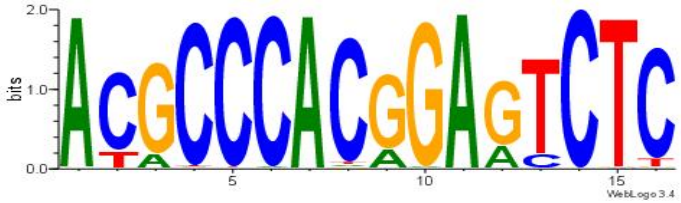

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

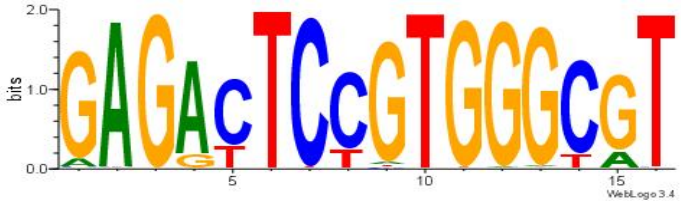

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15

Similarity score: 0.0978268

Alignment:
TGHCCTGCKCCCACTGTCT
----CMGCTCCGAGTGCGG

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

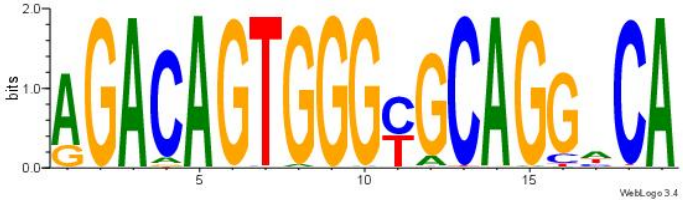

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

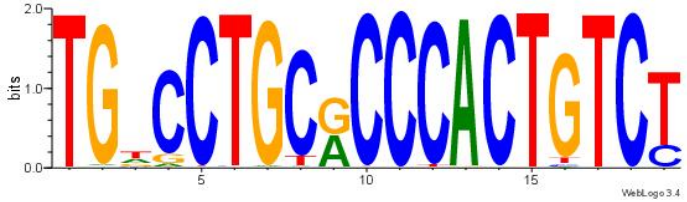

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.099727

Alignment:
CCCCGGGCAGTGAGGG
CMGCTCCGAGTGCGG-

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

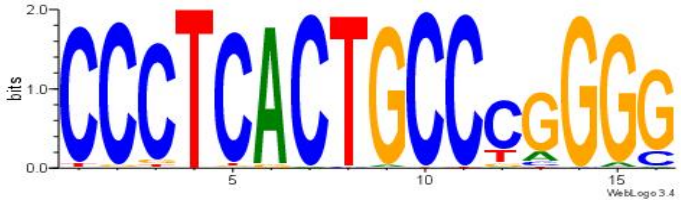

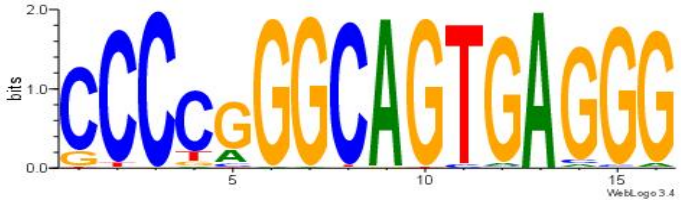

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.102042

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
CCGCACTCGGAGCRG-----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

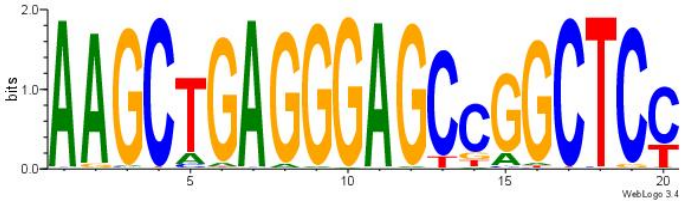

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

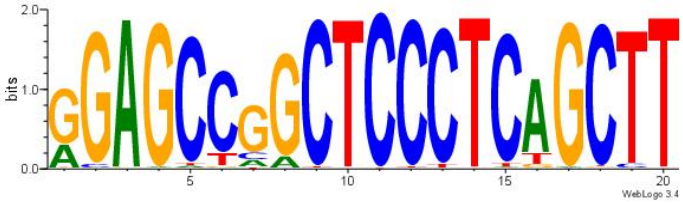

Dataset #:	1

Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.102539

Alignment:

```
CGCCCCGTCTGGGAAGTG
CCGCACTCGGAGCRG---
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

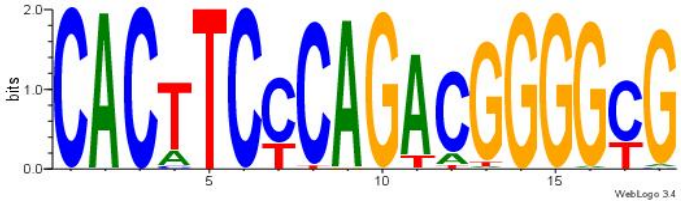

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

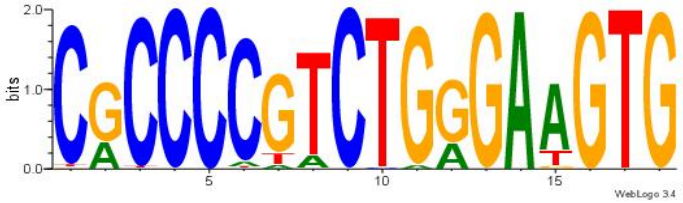

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.103179

Alignment:
AAGACCTTCCAGTGGGACAA
--CMGCTCCGAGTGCGG---

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

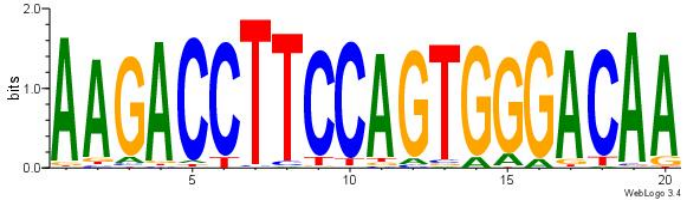

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

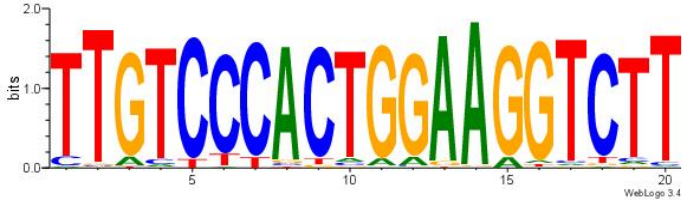

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.104291

Alignment:
CMCAGTTCACAATAGGGTT
--CMGCTCCGAGTGCGG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence:
CMCAGTTCACAATAGGGTT

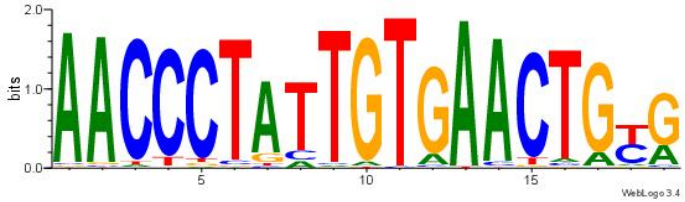

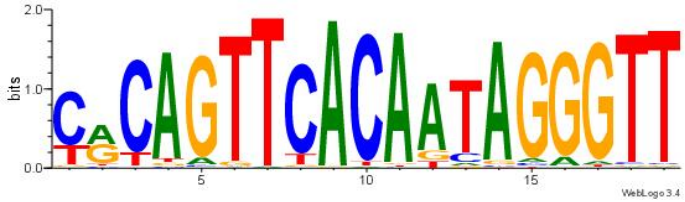

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.105193

Alignment:

```
MCCYGGCWSMGASGSTCCT
---CCGCACTCGGAGCRG-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

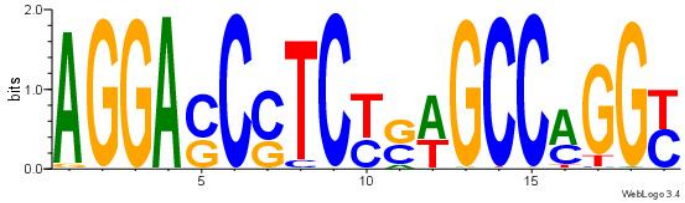

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

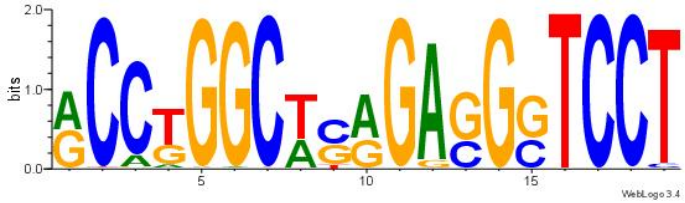

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.106451

Alignment:

```
TCCCTCCCGGACGGGGYGGC
CCGCACTCGGAGCRG-----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

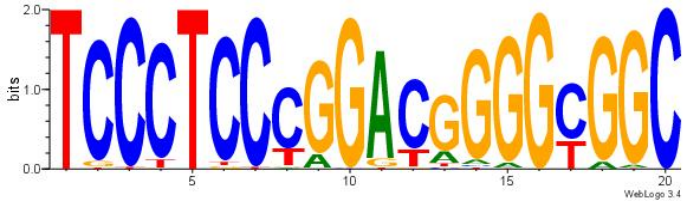

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

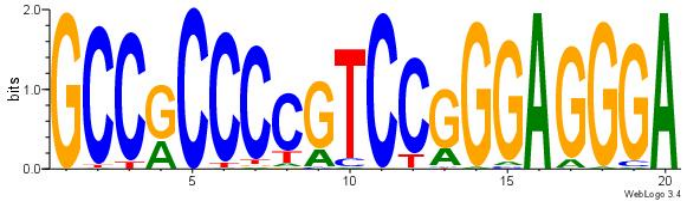

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15

Similarity score: 0.106679

Alignment:
GGTGCCCCTCTGGGACRAA
----CCGCACTCGGAGCRG

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

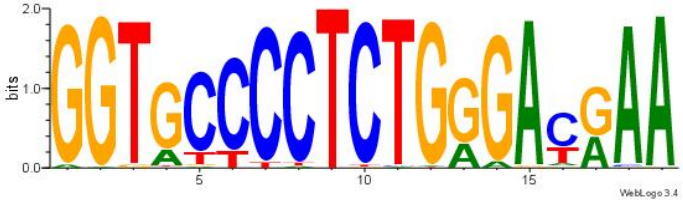

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

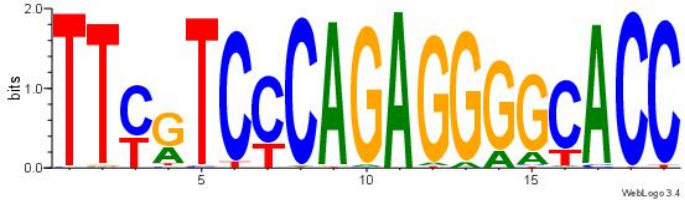

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.107129

Alignment:
ACAGGCTTTGTGTGAGCA
--CMGCTCCGAGTGCGG-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

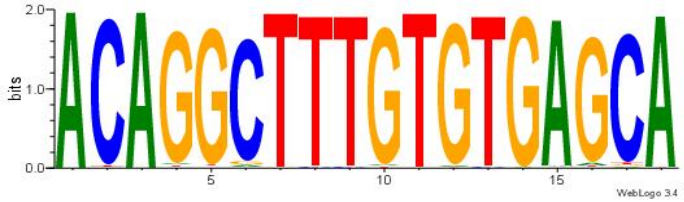

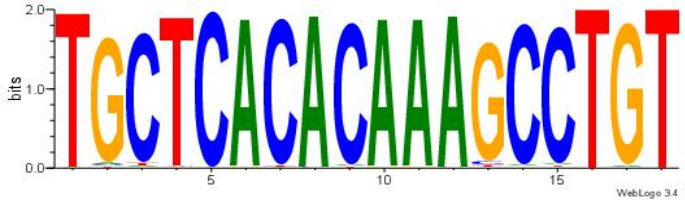

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.109265

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
----CMGCTCCGAGTGCGG-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

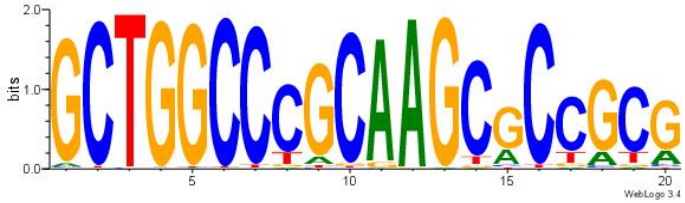

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

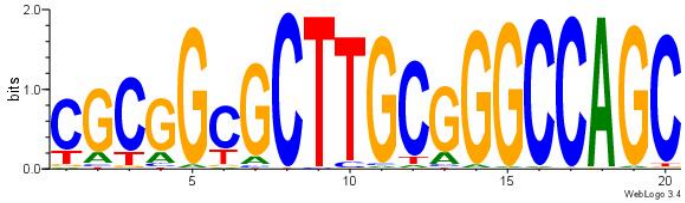

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.111952

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
----CMGCTCCGAGTGCGG-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

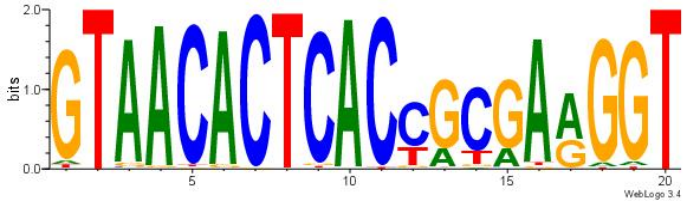

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

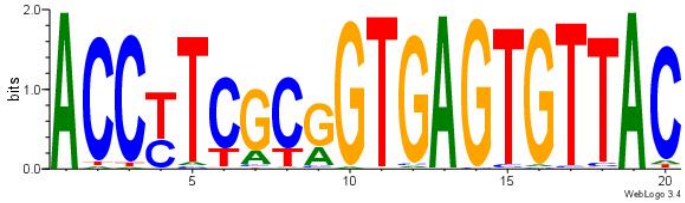

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.112003

Alignment:
GCGMGCGGGAACCGGGGCT
CCGCACTCGGAGCRG----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

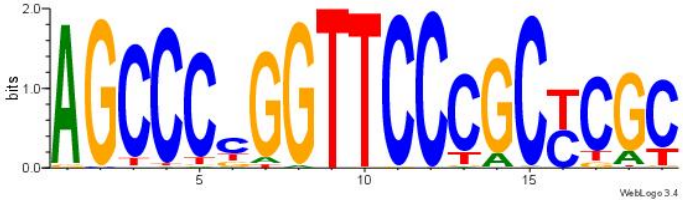

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

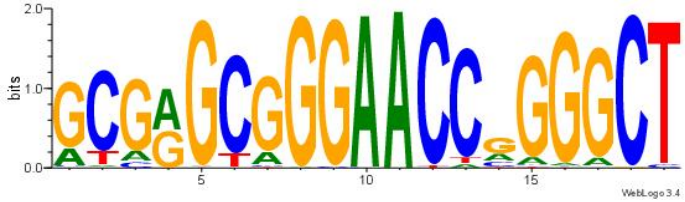

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.112445

Alignment:
GCGCTCKTCGGGGAGGCTCG
CMGCTCCGAGTGCGG-----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

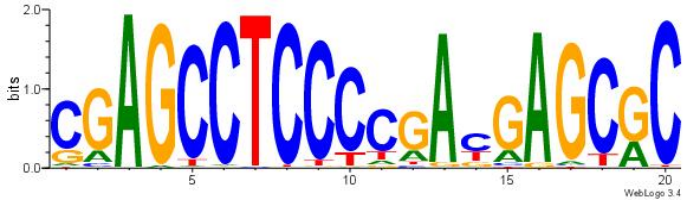

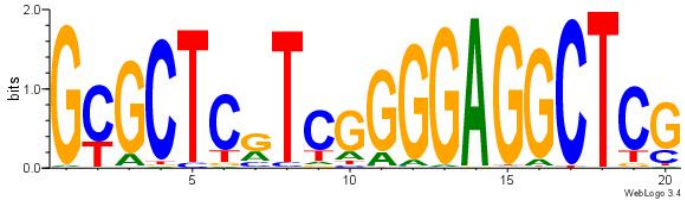

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.11294

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
----CMGCTCCGAGTGCGG-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

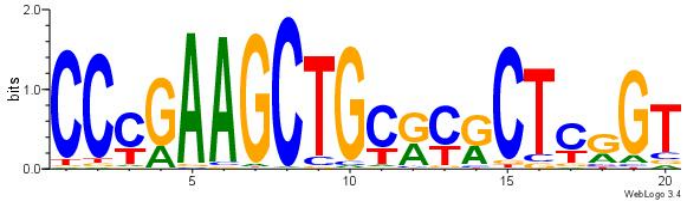

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

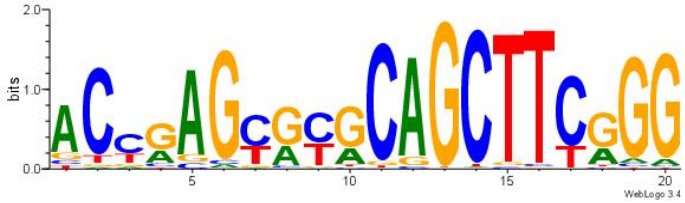

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.113096

Alignment:

```
AGCTCCCAGCGTGAGCGACG
---CCGCACTCGGAGCRG--
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

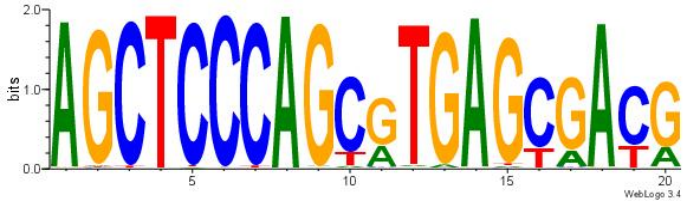

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

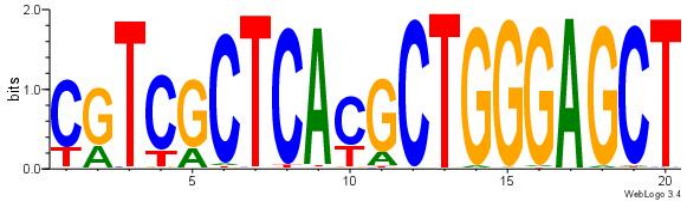

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15

Similarity score: 0.113799

Alignment:
CCCYAATACTGCGCTTTTC
---CCGCACTCGGAGCRG-

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

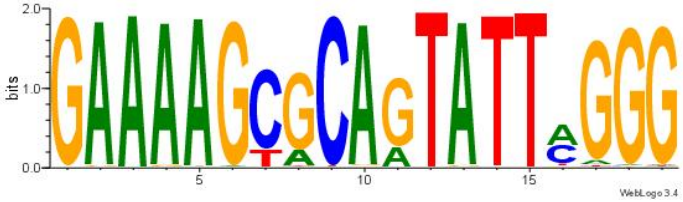

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

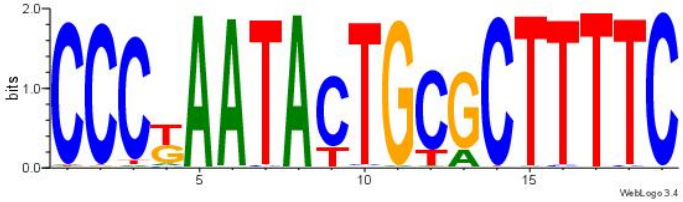

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.114524

Alignment:
CCACCACAGCTCAAGGAGGC
---CCGCACTCGGAGCRG--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

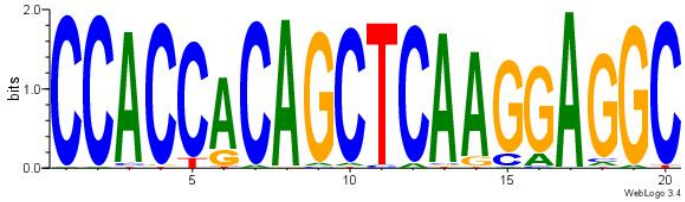

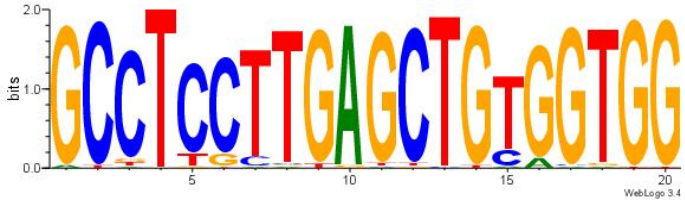

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.114807

Alignment:

```
CCCATGCAAGTCYRAAATCC
CMGCTCCGAGTGCGG-----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

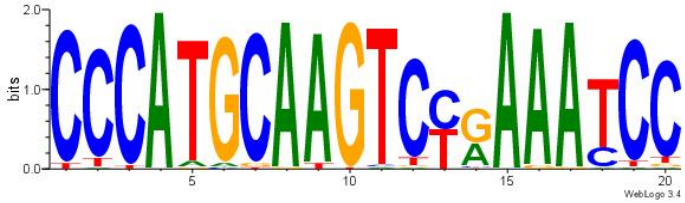

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

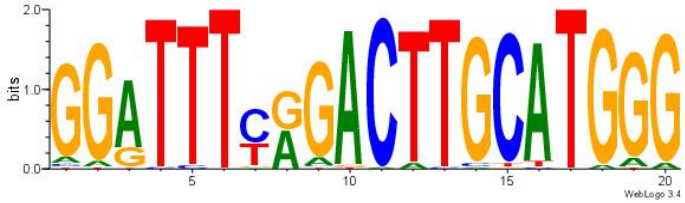

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.114904

Alignment:

```
TTGGAGGTTCTAGCAGGG
---CMGCTCCGAGTGCGG
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

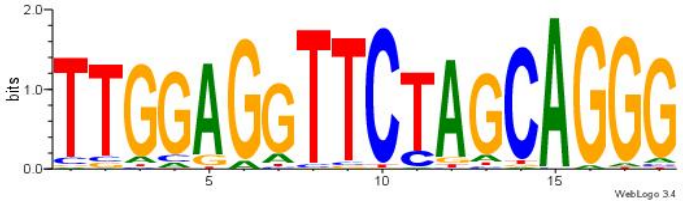

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.115498

Alignment:
CTGGGTCCCCCAGCAGTGCC
-CCGCACTCGGAGCRG----

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

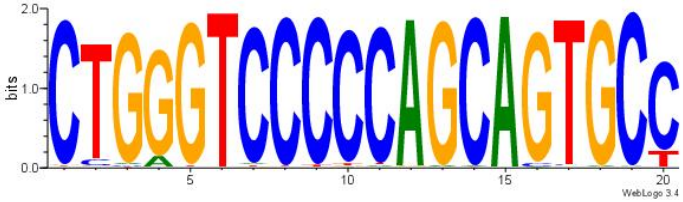

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

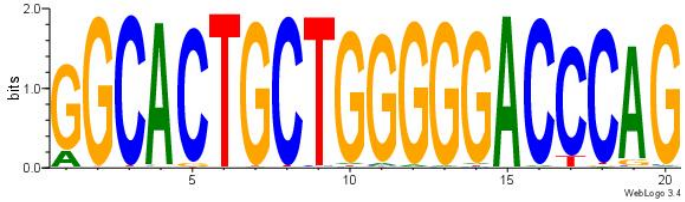

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.115517

Alignment:
CAAGCCTSKGCAATGGCAGG
----CMGCTCCGAGTGCGG-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

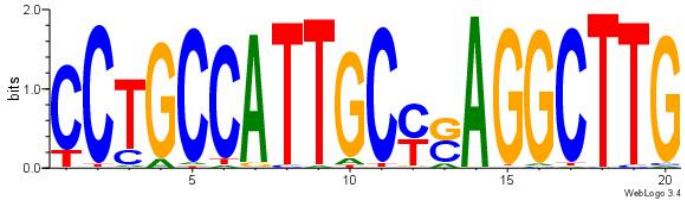

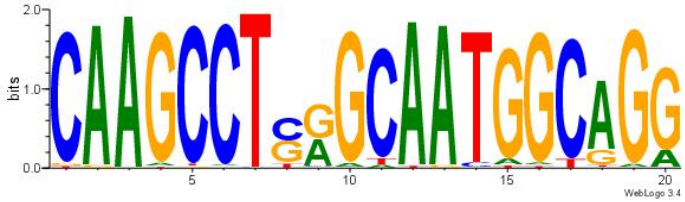

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.115749

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
----CMGCTCCGAGTGCGG-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

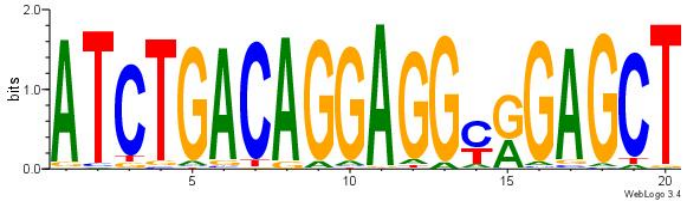

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

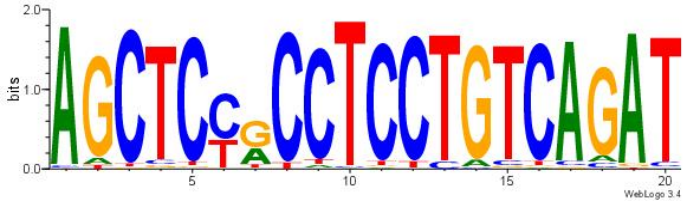

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.116421

Alignment:

```
CGGCGCTGMGCTCGATTTCT
CMGCTCCGAGTGCGG-----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

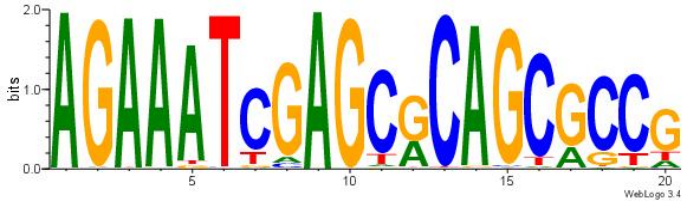

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

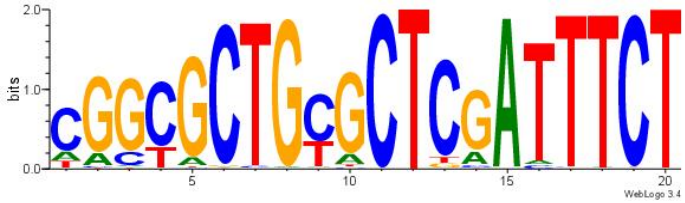

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.11684

Alignment:
AACAACASACACTGGGGCCT
--CMGCTCCGAGTGCGG---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

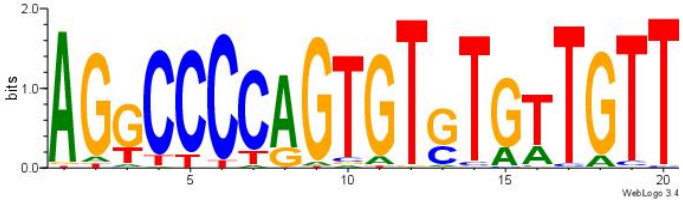

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

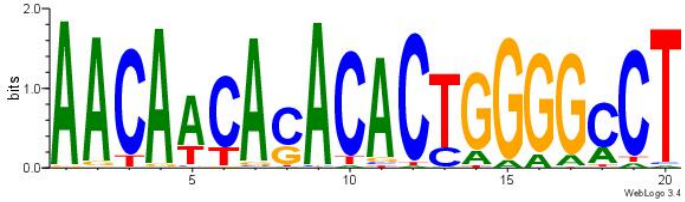

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.116901

Alignment:
CACTTTCCAGACTGGGCA
CMGCTCCGAGTGCGG---

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

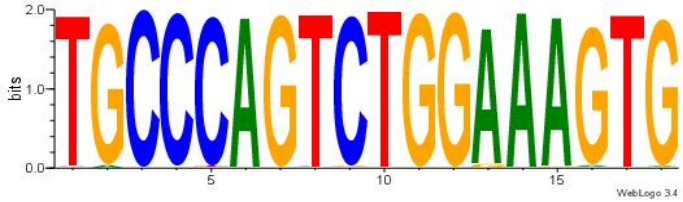

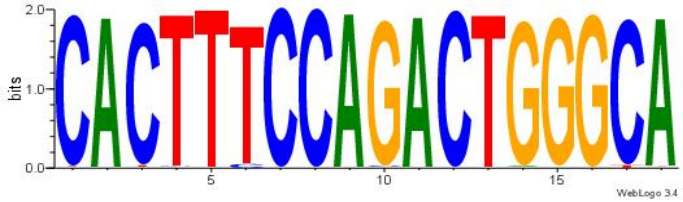

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.116973

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
CMGCTCCGAGTGCGG-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

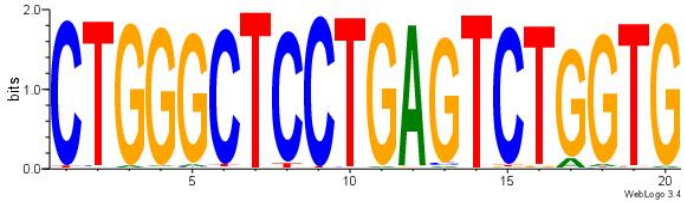

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

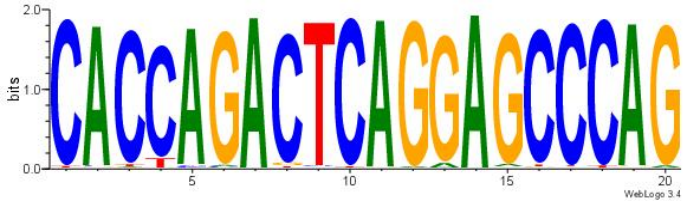

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.117111

Alignment:

```
CGCCCATCGTCTGGGATGT
-CCGCACTCGGAGCRG---
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

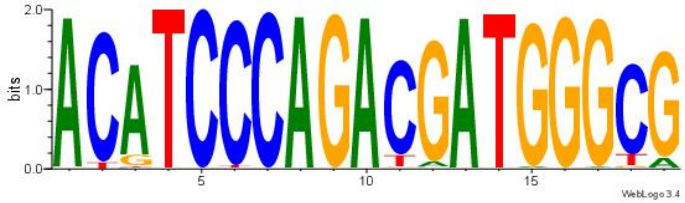

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

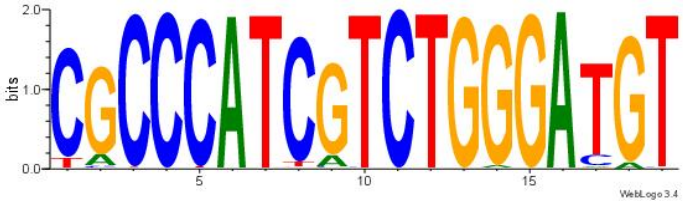

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.117659

Alignment:
TCCAAATGGGAGAAATTGGC
CCGCACTCGGAGCRG-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

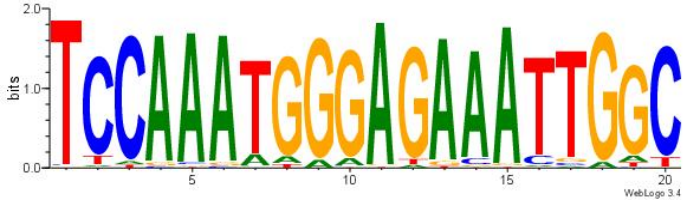

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

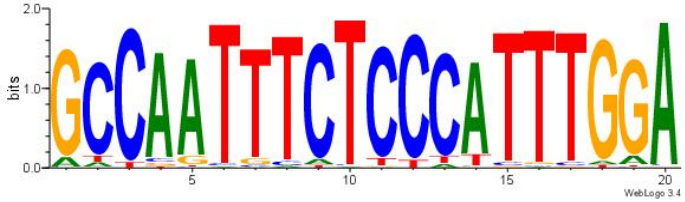

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.118365

Alignment:
GAGSTTGCAGTGAGC
CMGCTCCGAGTGCGG

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

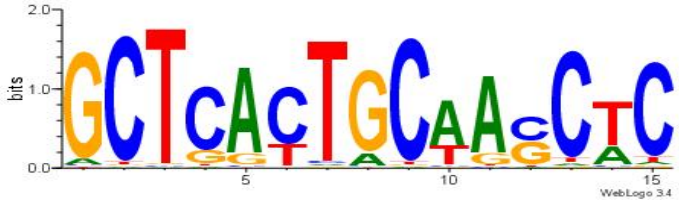

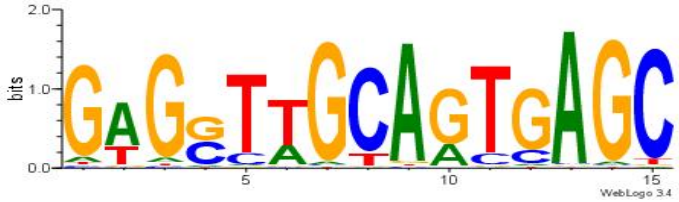

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.118498

Alignment:

```
GACCTGCAGCCCGCCATG
CCGCACTCGGAGCRG---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

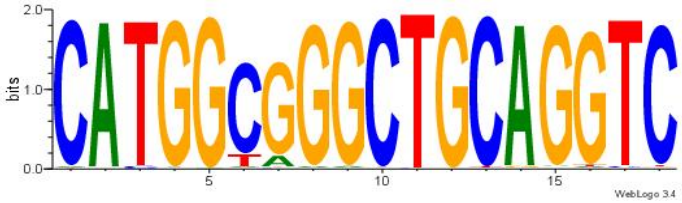

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

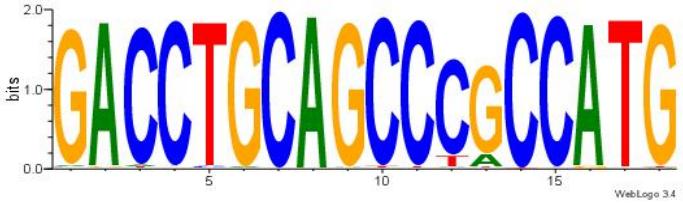

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.118727

Alignment:

```
AGAGCTCTGGCTGGCATCT
-CMGCTCCGAGTGCGG---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

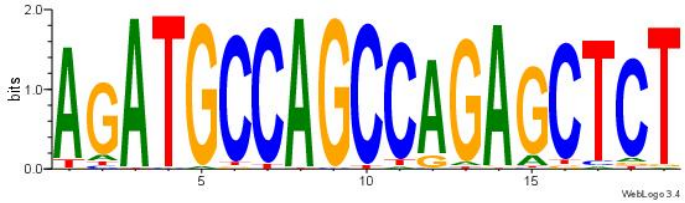

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

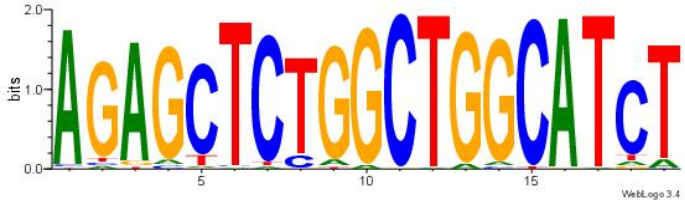

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.11944

Alignment:
ACACATCACAAAGCAGTTTC
-CMGCTCCGAGTGCGG----

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

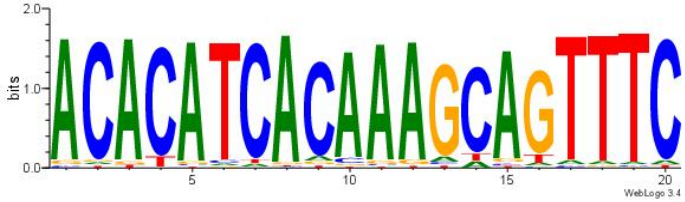

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

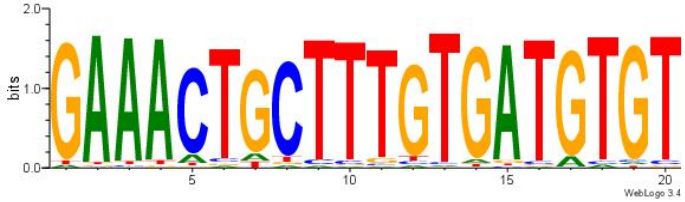

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.119588

Alignment:
GCCACCAMGCCMKGCTAAT
--CCGCACTCGGAGCRG--

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

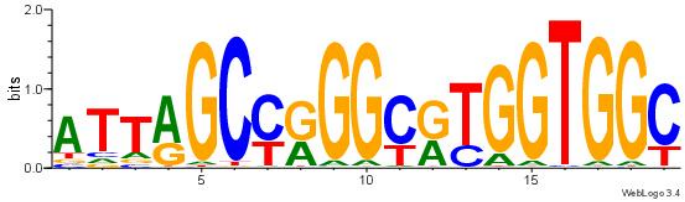

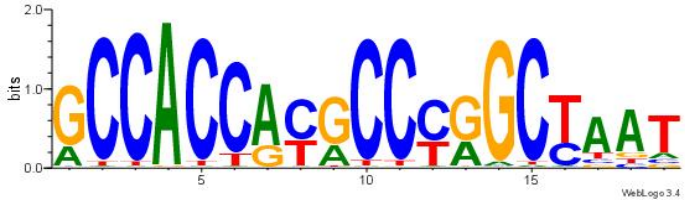

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.121154

Alignment:

```
CAGCTACTCKTATACCCTTG
CMGCTCCGAGTGCGG-----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

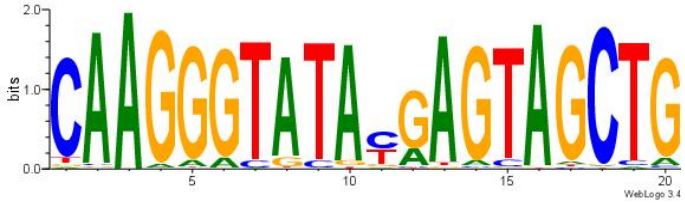

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

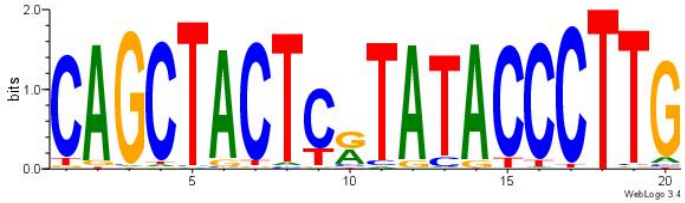

Dataset #: 1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.121327

Alignment:

```
ATTCAASATGAGATTTGGG
----CMGCTCCGAGTGCGG
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

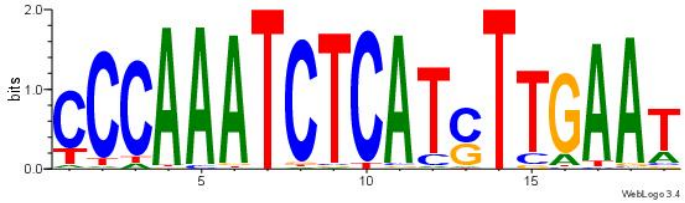

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

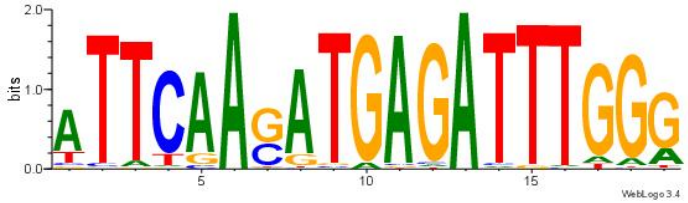

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.121778

Alignment:
GCCAGGCAGAGRGKCTCCT
---CMGCTCCGAGTGCGG-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

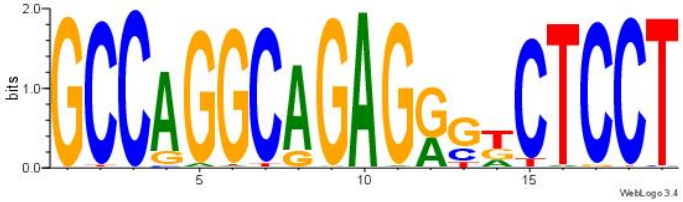

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

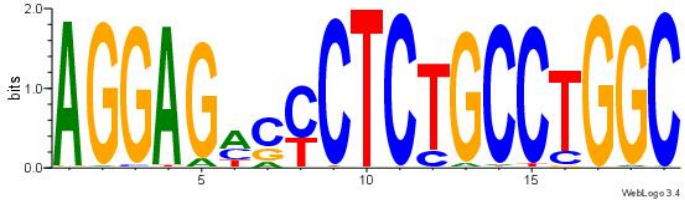

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.12207

Alignment:
CMTAGYACAGTGCCTGGCAC
CMGCTCCGAGTGCGG-----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

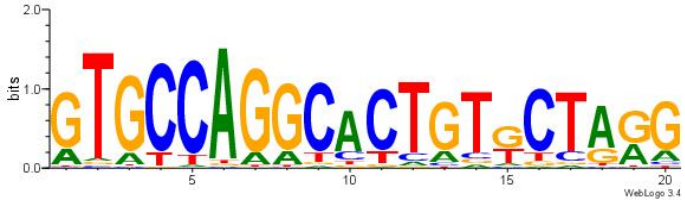

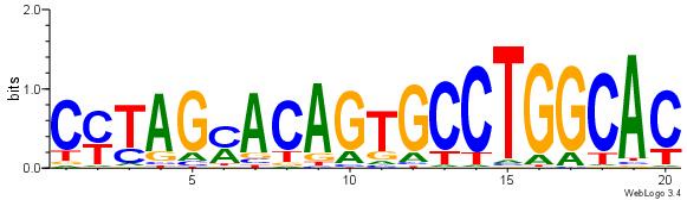

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.122369

Alignment:

```
TACCTGAGACTGGGTAATTT
CMGCTCCGAGTGCGG-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

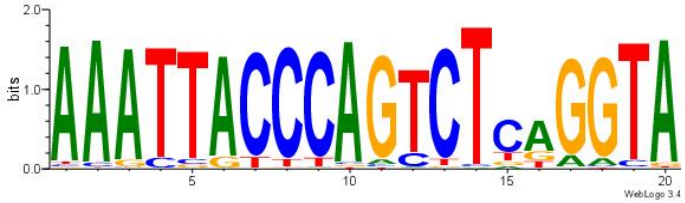

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

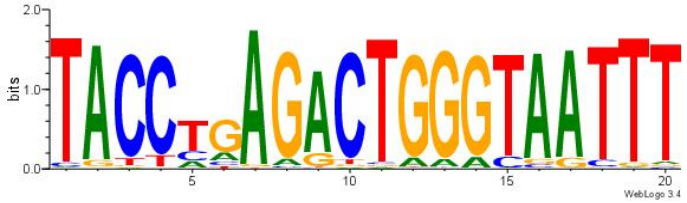

Dataset #: 1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.1233

Alignment:

```
CTTGCGCTTCCCRRGTGA
CMGCTCCGAGTGCGG---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

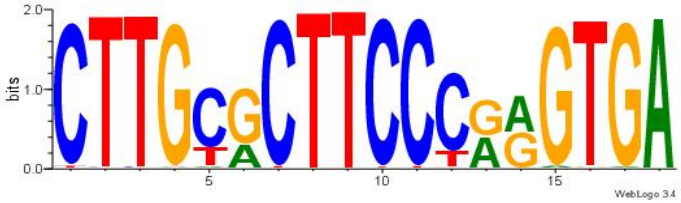

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

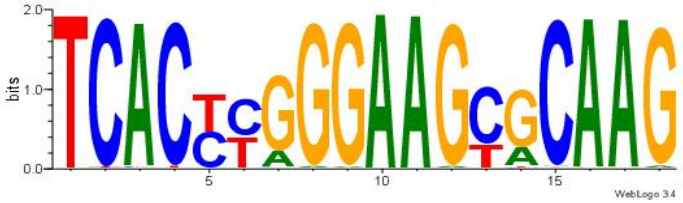

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15

Similarity score: 0.12368

Alignment:
AAGGAACAAACTCCRGACAC
-----CCGCACTCGGAGCRG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

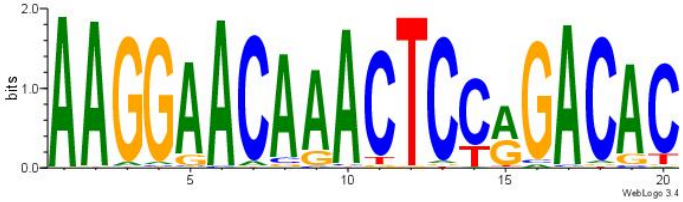

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

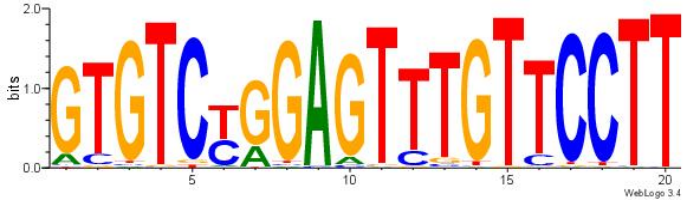

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.124972

Alignment:
AGGACTGAGGGTGCCYRGGG
-CMGCTCCGAGTGCGG----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

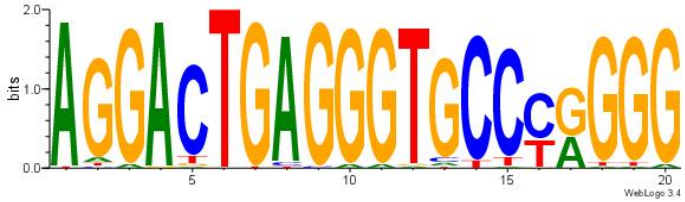

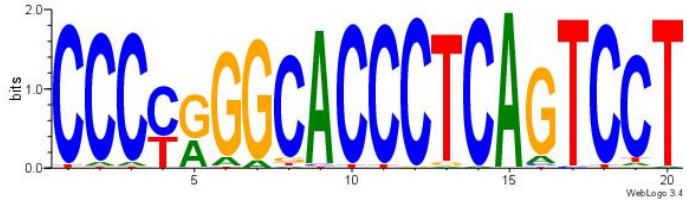

Dataset #: 1 **Motif ID: 129** **Motif name: Motif 129**

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

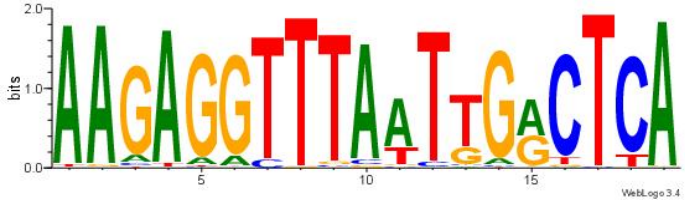

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

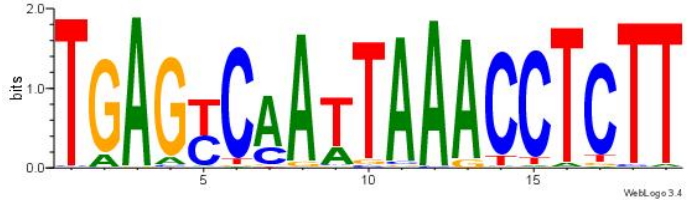

Best Matches for Motif ID 129 (Highest to Lowest)

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.093225

Alignment:

AAGACCTTCCAGTGGGACAA
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

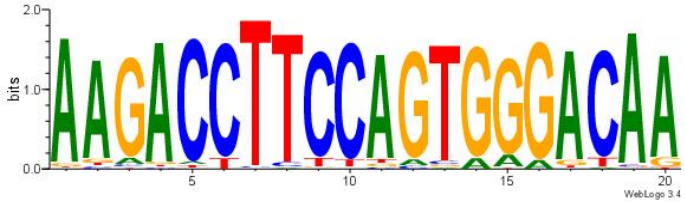

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

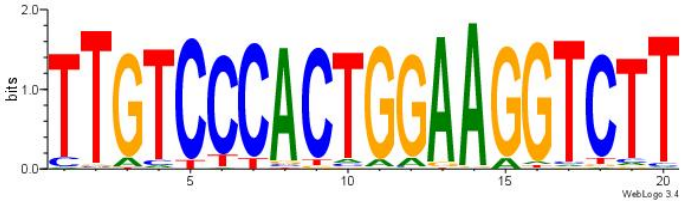

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0969481

Alignment:
ATGATCCAGCAATYCCACTH
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

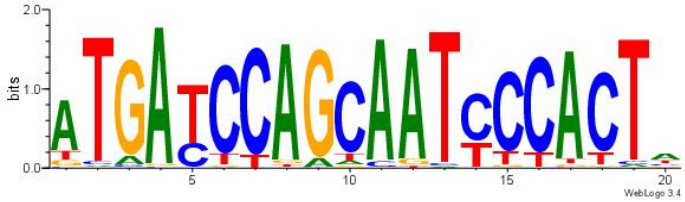

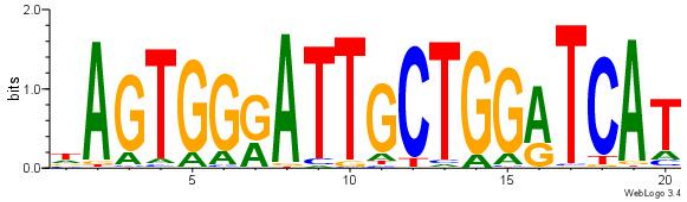

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.110541

Alignment:

```
GACAGGAGATTAACACTGAG
-TGAGKCAATTAAACCTCTT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

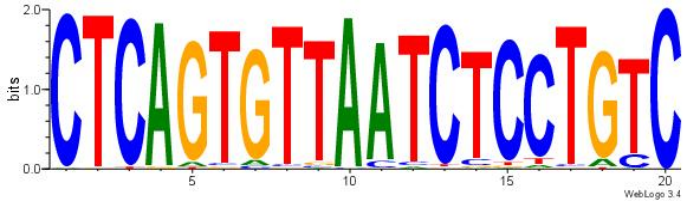

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

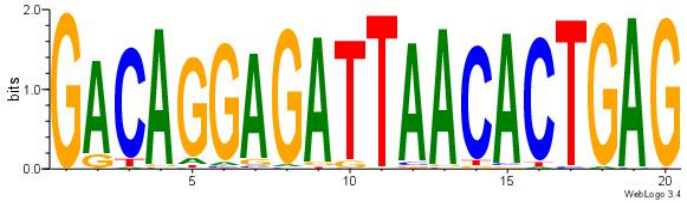

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.114822

Alignment:

```
AAAATGTGGTAYATAYAYAC
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

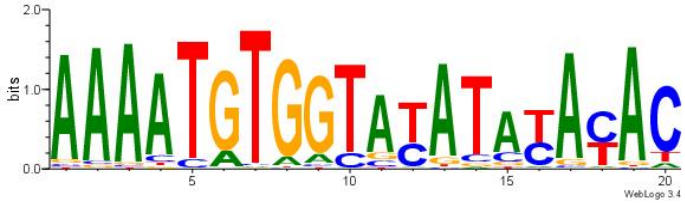

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

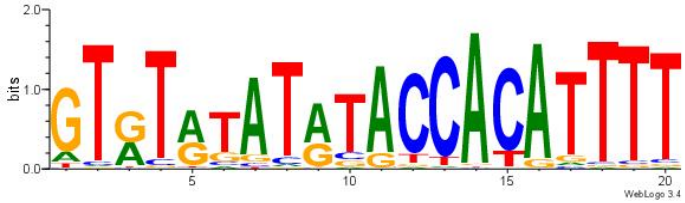

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.116601

Alignment:
KCCGGGCCTTAGCTGCCTTC
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

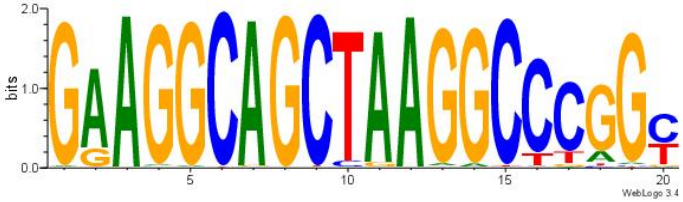

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

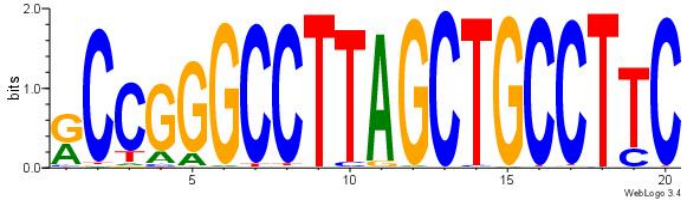

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.117069

Alignment:
CTGACTGGGAGACACCTCCC
-TGAGKCAATTAAACCTCTT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

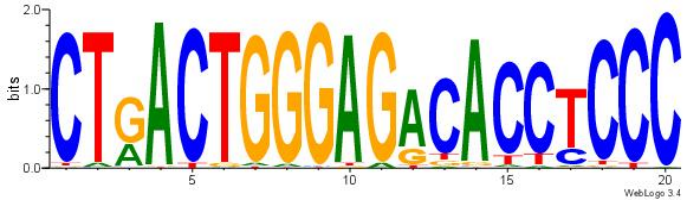

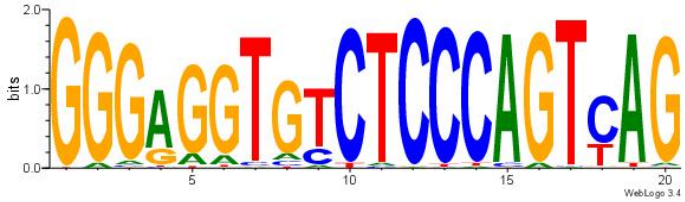

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.118017

Alignment:

```
TTCAMTCATGATTTGGCTCT
-AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

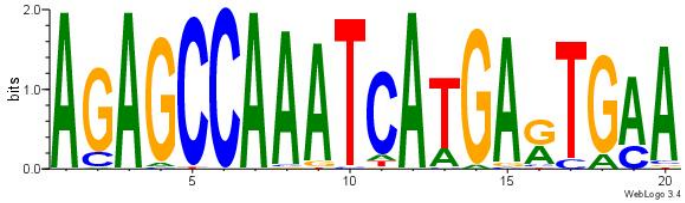

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

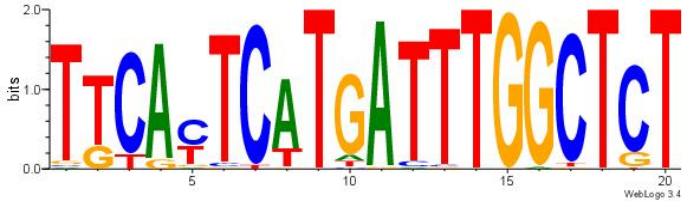

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.12168

Alignment:

```
CAGCTACTCKTATACCCTTG
-TGAGKCAATTAAACCTCTT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

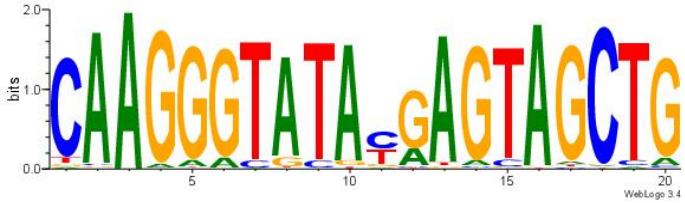

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

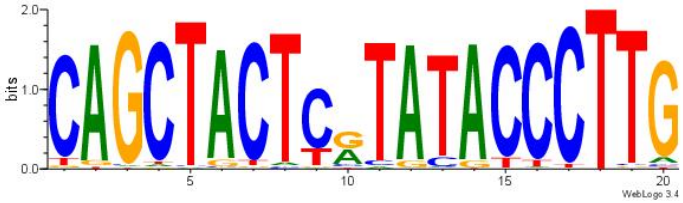

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.122925

Alignment:
TAATTTTATGTGTCAACTTG
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

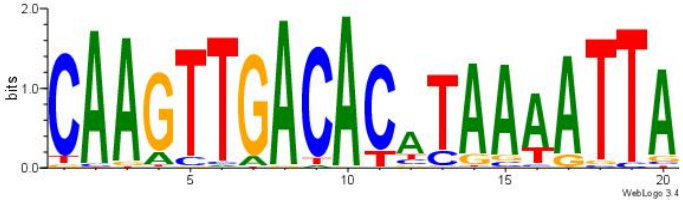

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

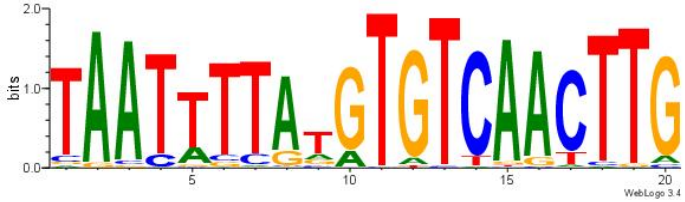

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.123262

Alignment:
ATGGAATAYTATTCAGCCAT
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

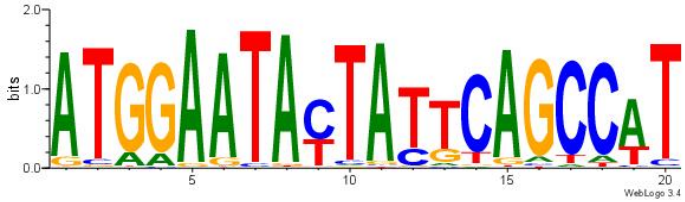

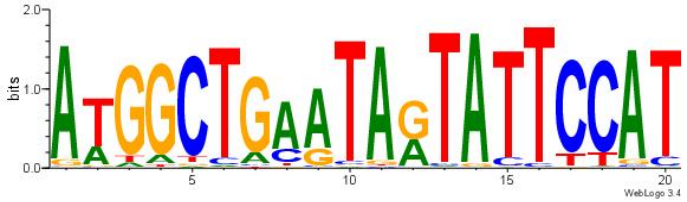

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.123691

Alignment:

```
GGGATTGTAAATACACCAAT
-AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

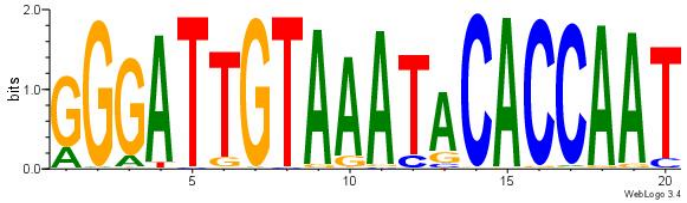

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.123915

Alignment:

```
CAGGTGGTKTTTGGTTACAT
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

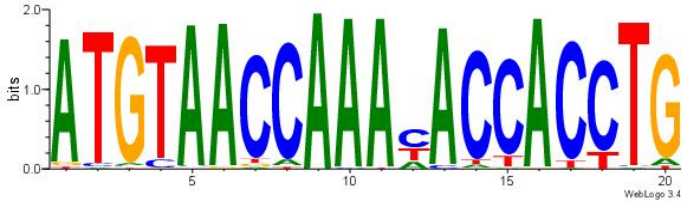

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

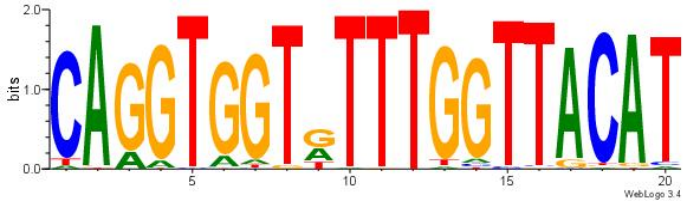

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.124963

Alignment:
KACGGGCTTAARAAACGGC
AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

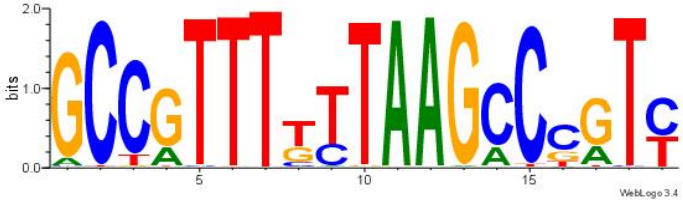

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

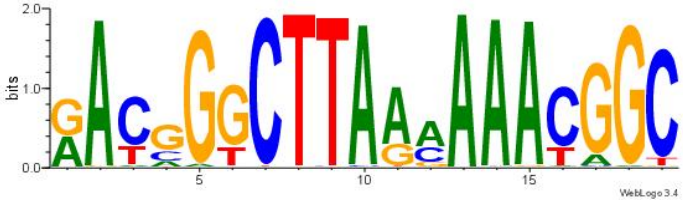

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.126746

Alignment:
TGGAGAACCTTTATGTCTAG
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

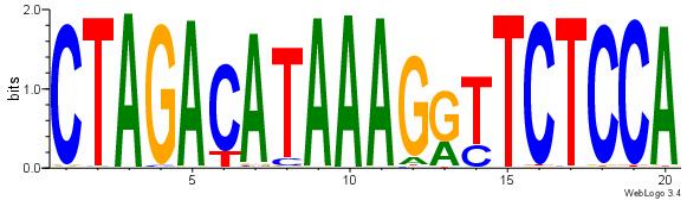

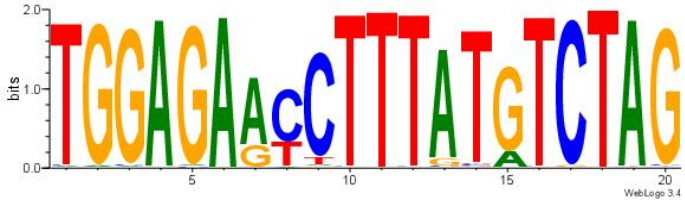

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.126862

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-TGAGKCAATTAAACCTCTT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

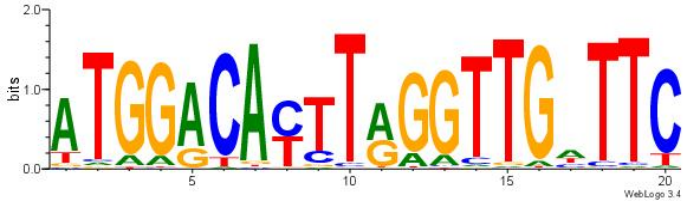

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

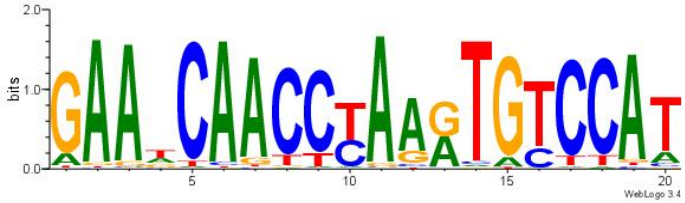

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129519

Alignment:

```
AAGGAACAAACTCCRGACAC
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

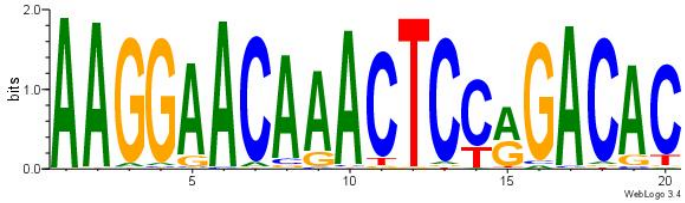

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

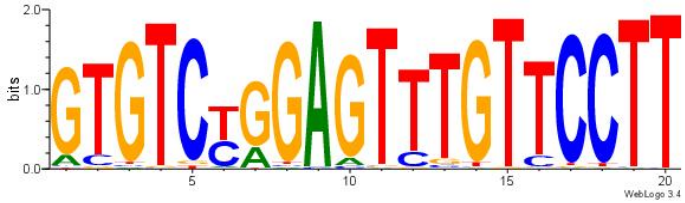

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.129677

Alignment:
AGGTTTGTTACATAGGTAWA
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

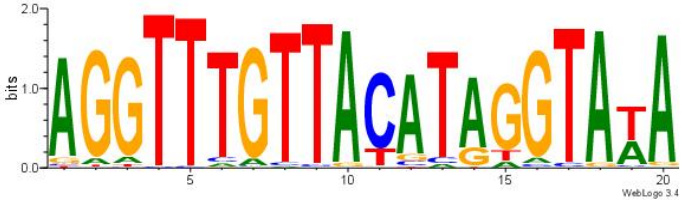

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

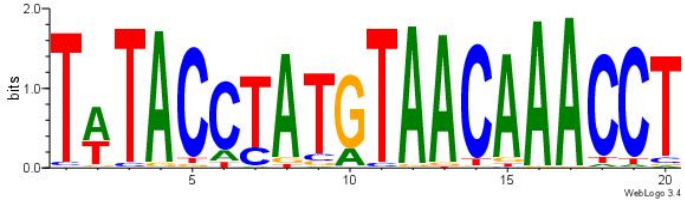

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.13054

Alignment:
TCKMGCCACTGCACTCCAGC
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

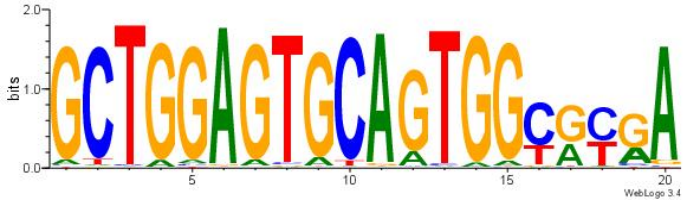

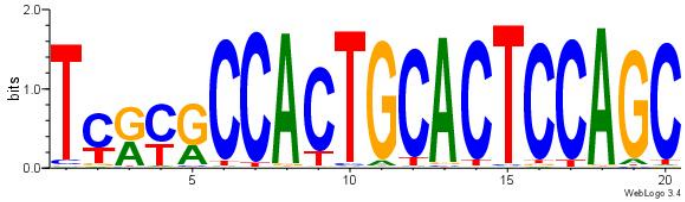

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.130943

Alignment:

```
CAAASCKGTCATAGGCCAT
AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

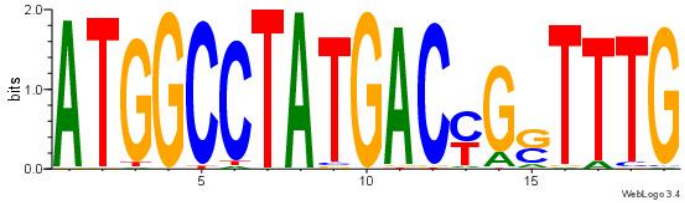

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

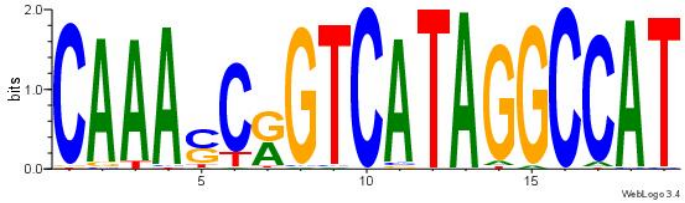

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131945

Alignment:

CCTAGATTTCAGARGATGT
AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

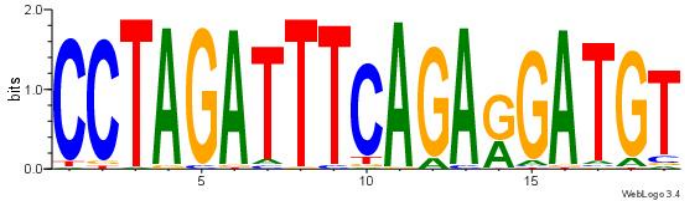

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

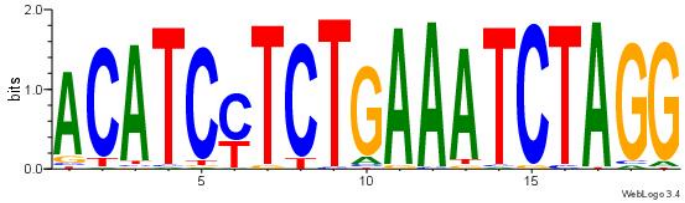

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.132724

Alignment:
AGTTGTAATTGGGAGACTT
TGAGKCAATTAAACCTCTT

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

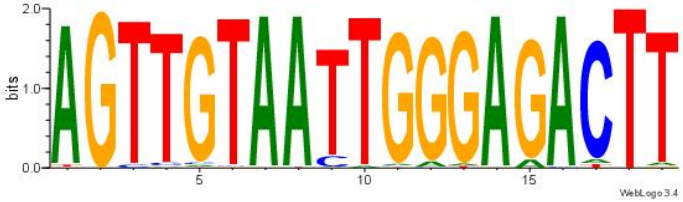

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

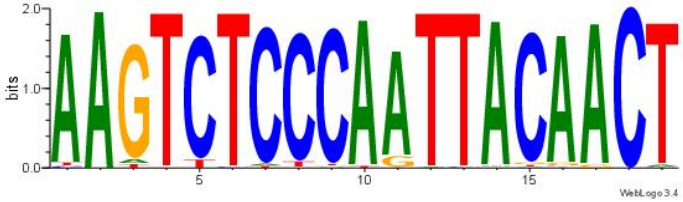

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.132996

Alignment:
GCCAGTCACAAAARGACAMA
-TGAGKCAATTAAACCTCTT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

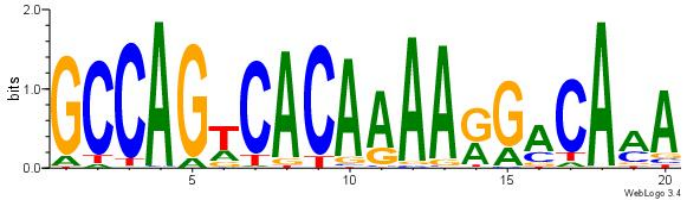

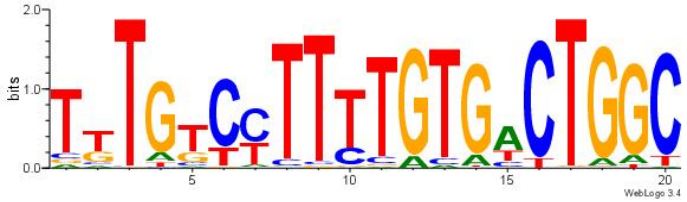

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133526

Alignment:

```
GTTAACTGTAAAACAGCCT
TGAGKCAATTAAACCTCTT
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

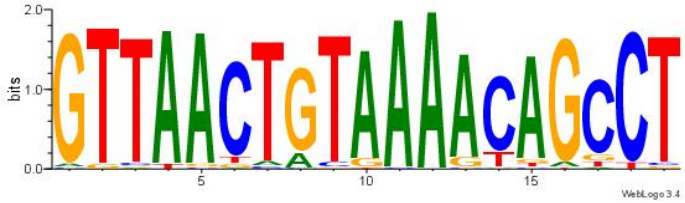

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

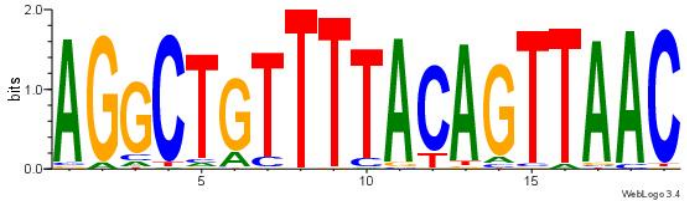

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.134134

Alignment:

```
AGCCYCTGGYAACCAYYAWT
TGAGKCAATTAAACCTCTT-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

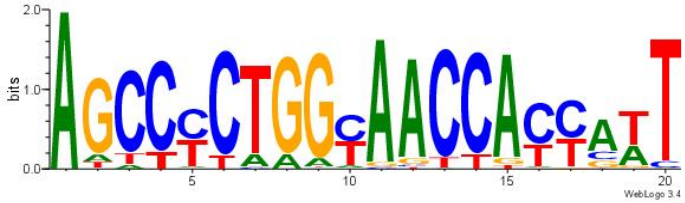

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

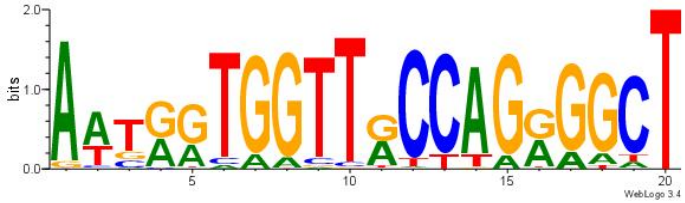

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.134277

Alignment:
ATGTGGAGGTGGAAGACAGT
-TGAGKCAATTAAACCTCTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

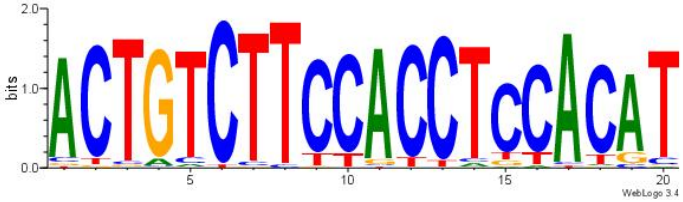

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

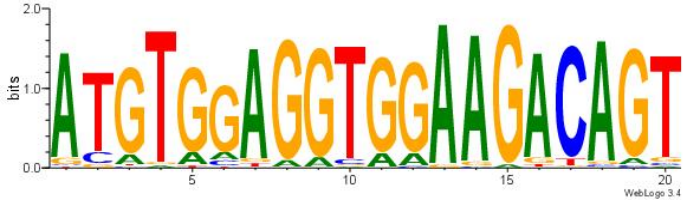

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13437

Alignment:
AAGCTGAGGGAGCCGGCTCC
-AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

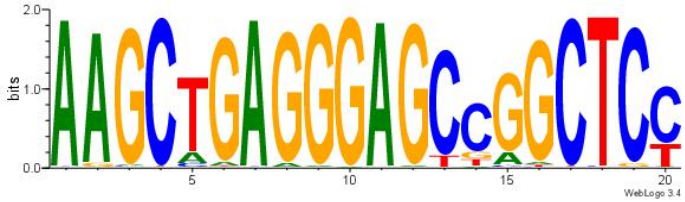

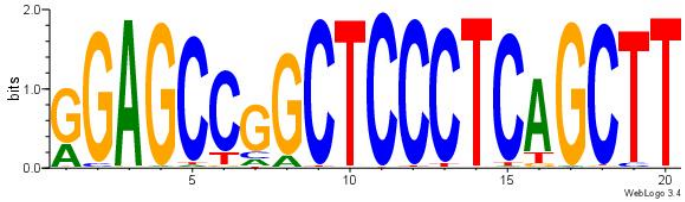

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.134514

Alignment:

```
GAAACTGCTTTGTGATGTGT
-AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

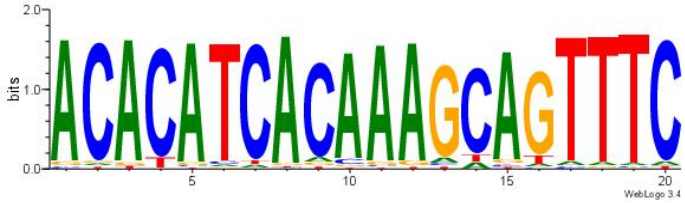

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

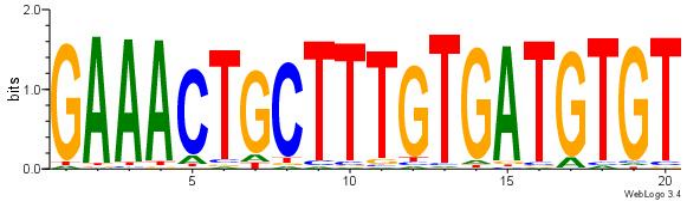

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134827

Alignment:

```
AATGAKATCATGTCYTTTGC
-AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

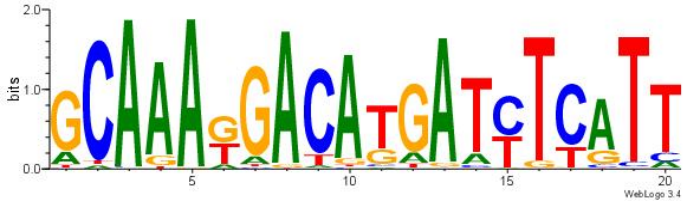

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

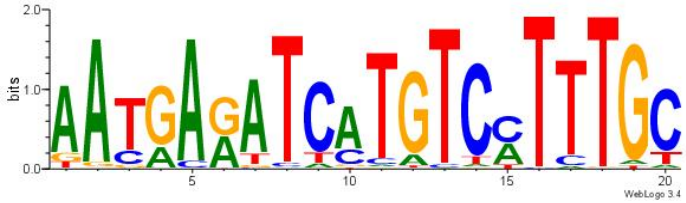

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.137384

Alignment:
GTTATTAATTGGCCTAATTT
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

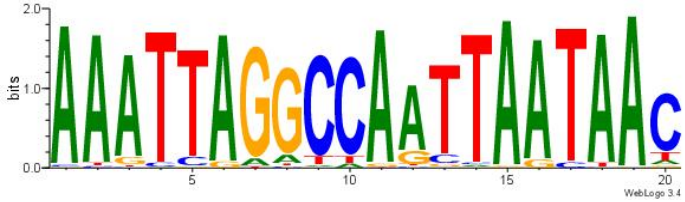

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.137564

Alignment:
CACCAGACTCAGGAGCCCAG
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

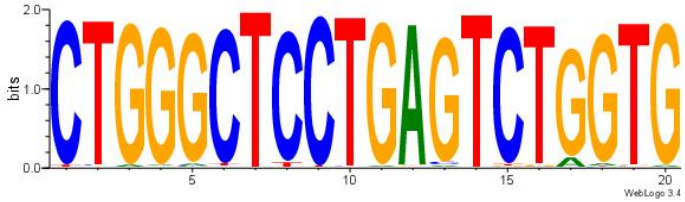

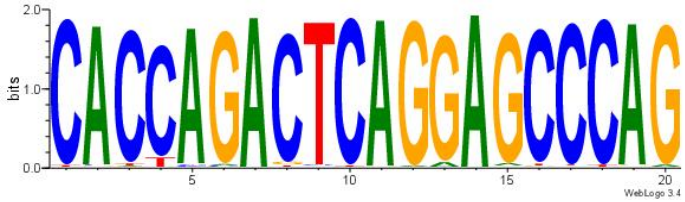

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138467

Alignment:

```
AAAMAMMKMATGTTCTCACT
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

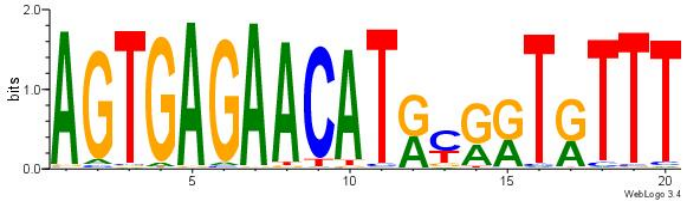

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

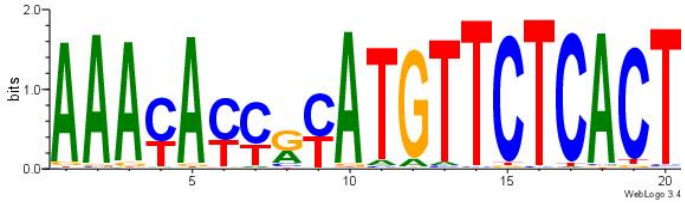

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138816

Alignment:

```
AACAACASACACTGGGGCCT
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

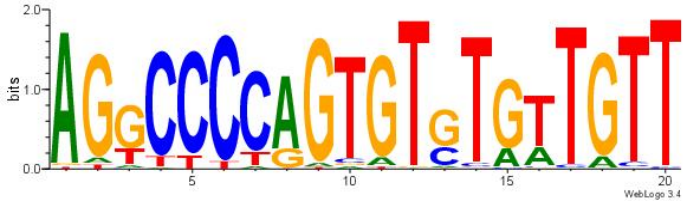

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

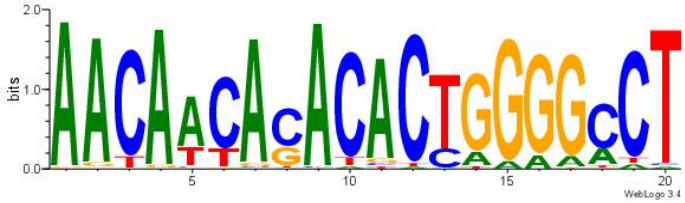

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.139701

Alignment:
CAAGCCTSKGCAATGGCAGG
-AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

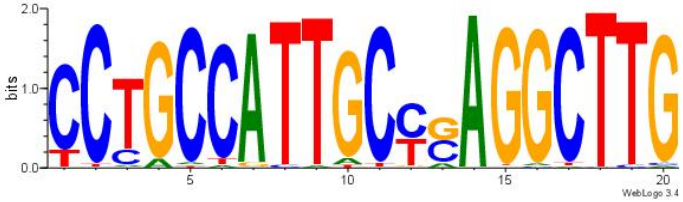

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

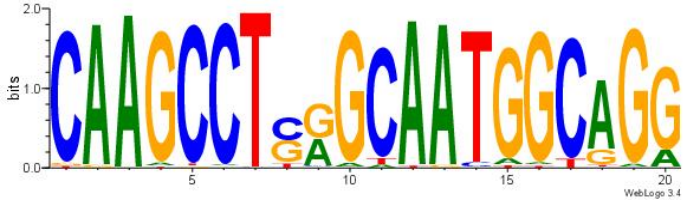

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.139731

Alignment:
GAGAGAGAGAGAGAGAGAGA
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

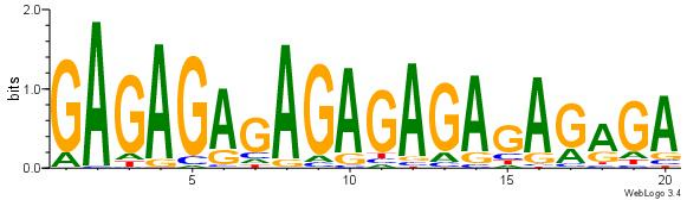

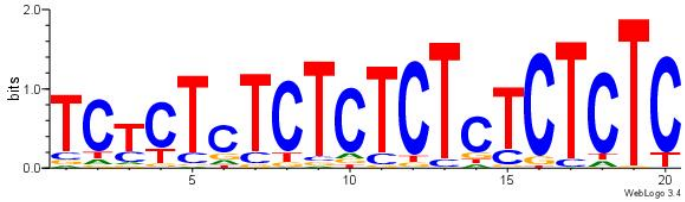

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.139782

Alignment:

```
CTGGGCRACAGAGYRAGACY
TGAGKCAATTAAACCTCTT-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

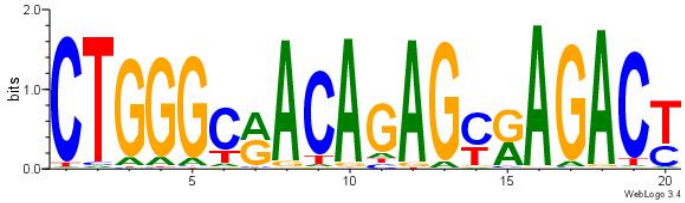

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

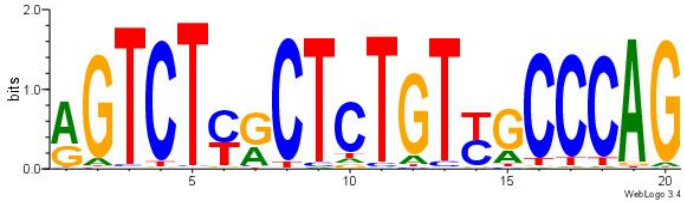

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.140268

Alignment:

```
TGCTGGAGGTCCACTCCAGA
TGAGKCAATTAAACCTCTT-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

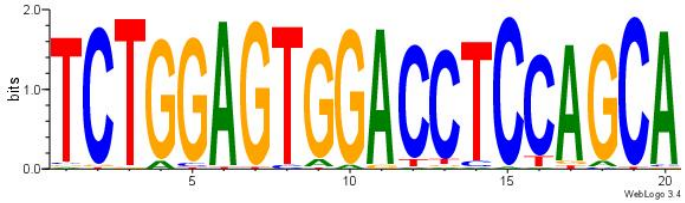

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

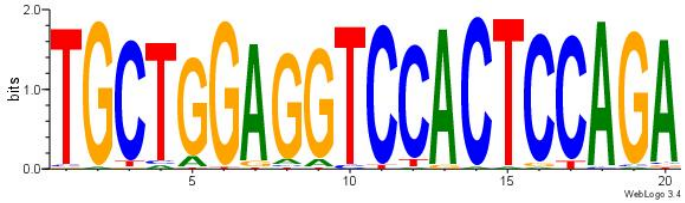

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.140286

Alignment:
CGGCGCTGMGCTCGATTTCT
-AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

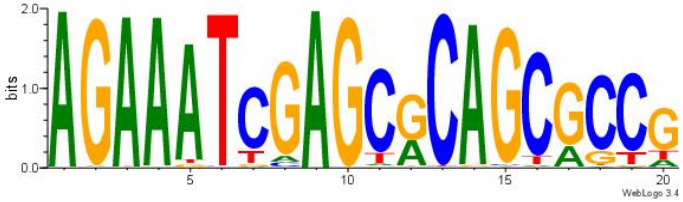

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

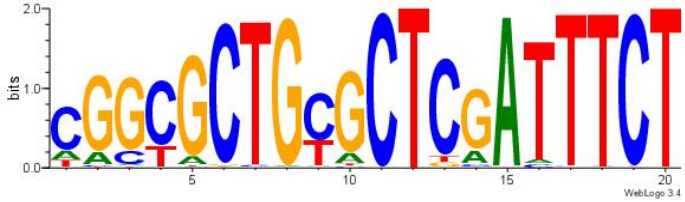

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.140805

Alignment:
KKCACCTTGATCTTGGACTT
-AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

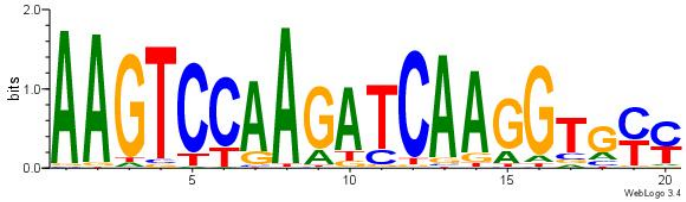

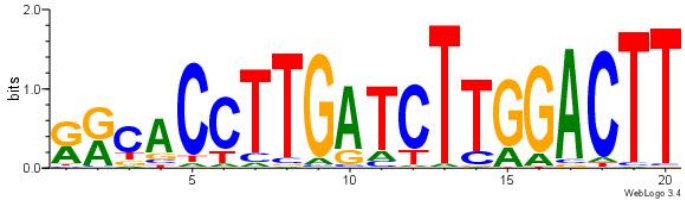

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141338

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

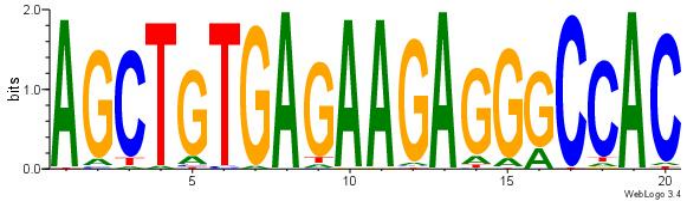

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

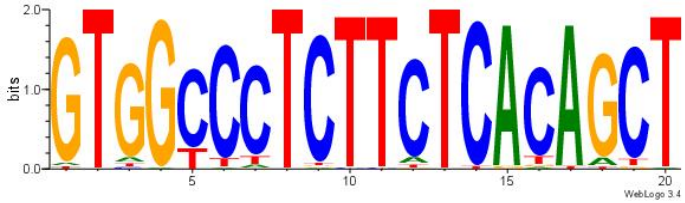

Dataset #:	1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.141608

Alignment:

```
TGTGTGTGTGTKTGTGTGT
AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: ACACACAYACACACACACA

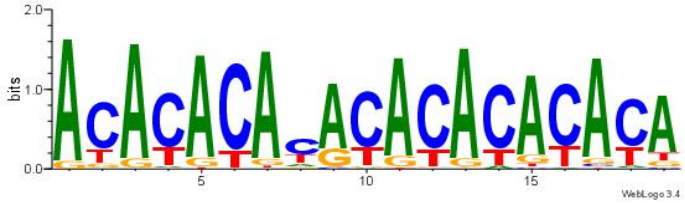

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

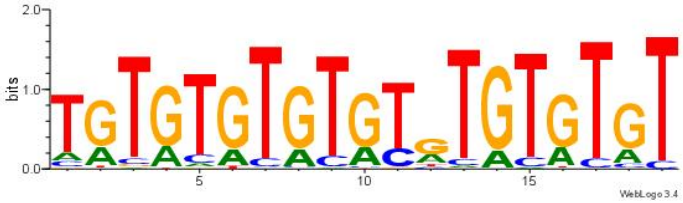

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.142462

Alignment:
GCCGGGRAGAGGCGCTCCT
TGAGKCAATTAAACCTCTT

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

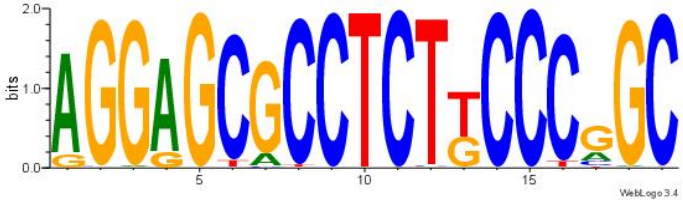

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

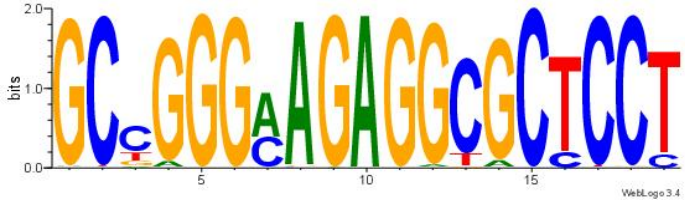

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.142573

Alignment:
TAMGACCTCAGGTCCTCAG
TGAGKCAATTAAACCTCTT

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

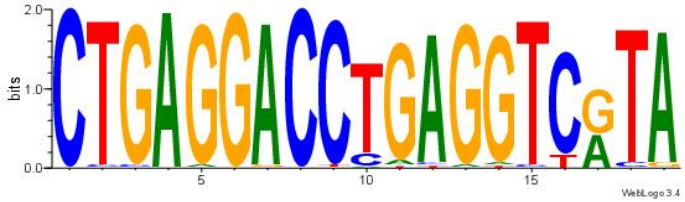

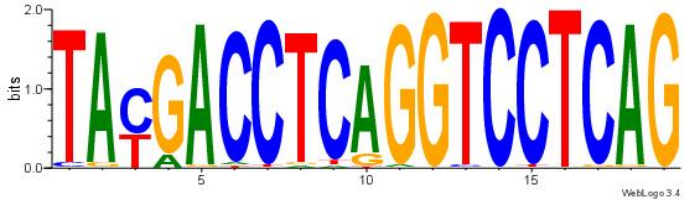

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143153

Alignment:

```
TAGTGGTGATTTSTGAGAT
AAGAGGTTTAATTGRCTCA
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

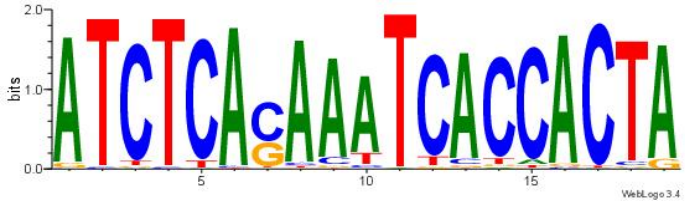

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

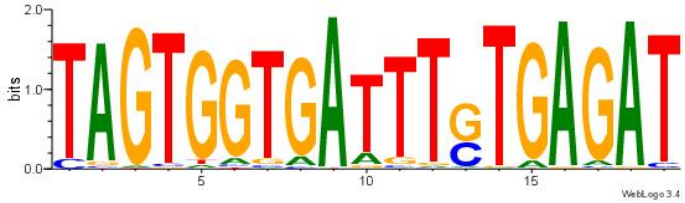

Dataset #:	1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.143294

Alignment:

```
CTGGCCCTCAATGGTTAAAC
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

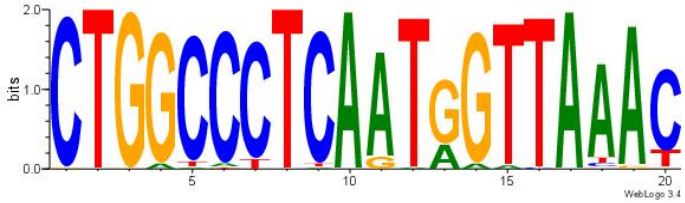

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

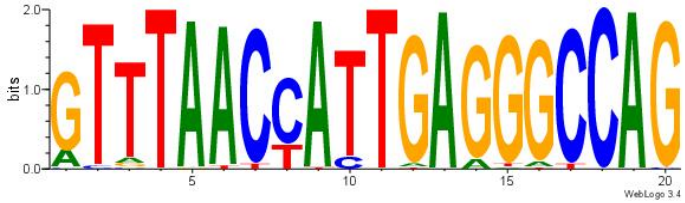

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.143807

Alignment:
AGTAGGTGCTCARTAAATRB
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

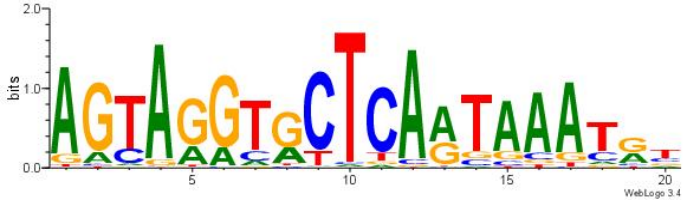

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

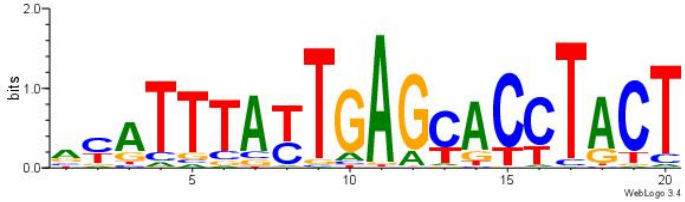

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.14426

Alignment:
AAAATCACAAGCATTCCTAT
TGAGKCAATTAAACCTCTT-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

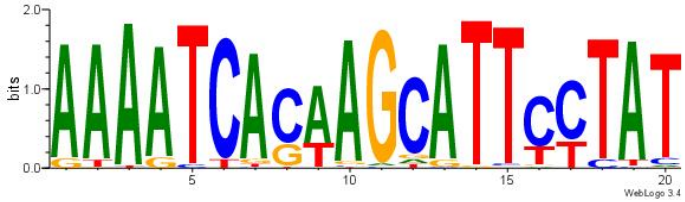

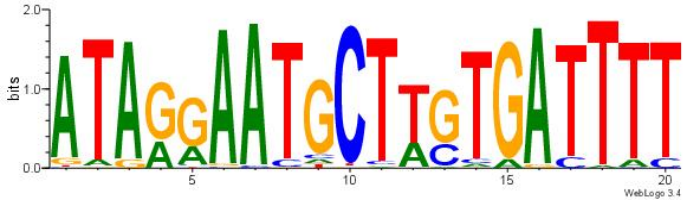

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144624

Alignment:

```
ACTTTGGACTGTGGACTTTT
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

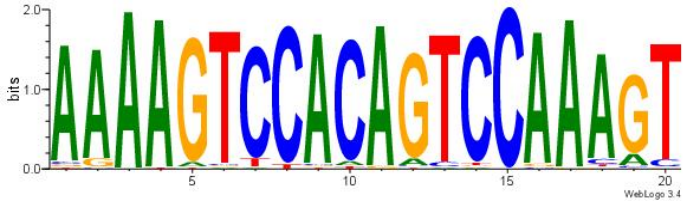

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

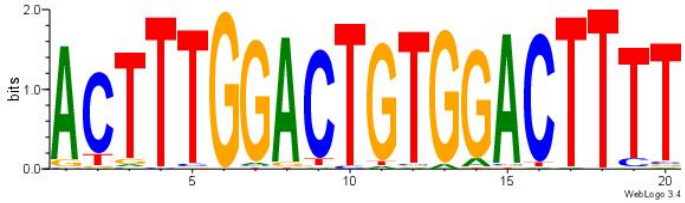

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.14511

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AAGAGGTTTAATTGRCTCA-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

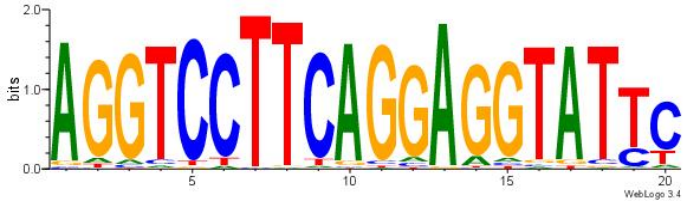

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

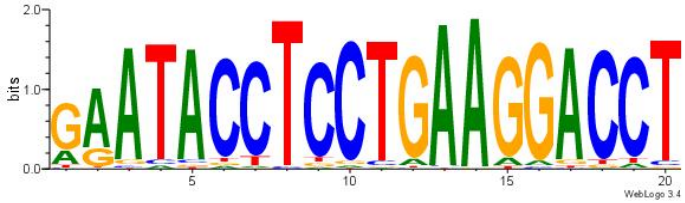

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.145377

Alignment:
CACCAGGAGATTATATCCCR
-AAGAGGTTTAATTGRCTCA

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

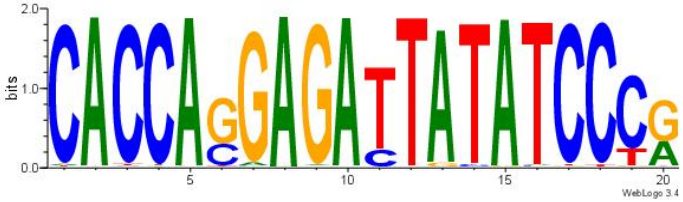

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

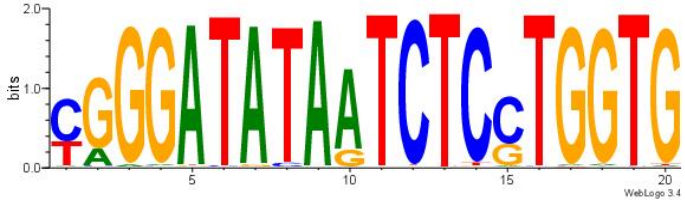

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.145737

Alignment:
CTCCAGKTMCATCCATGTTG
AAGAGGTTTAATTGRCTCA-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

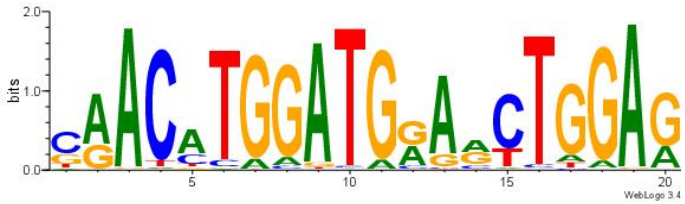

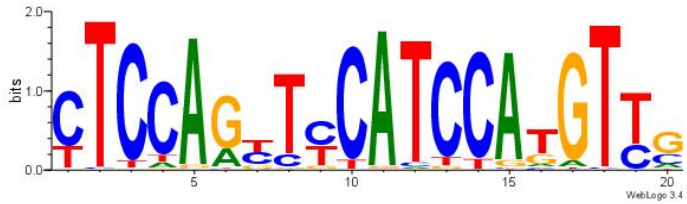

Dataset #: 1 Motif ID: 130 Motif name: Motif 130

Original motif Consensus sequence: ATTATTATYAT

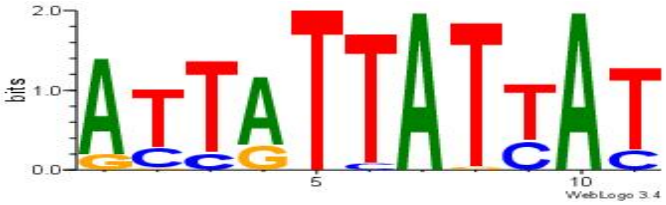

Reverse complement motif Consensus sequence: ATMATAATAAT

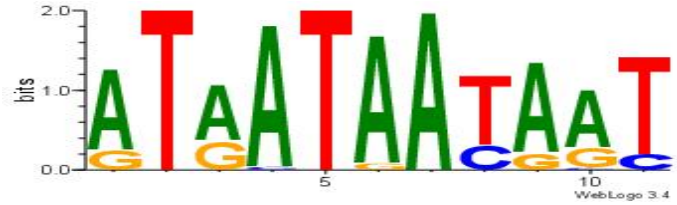

Best Matches for Motif ID 130 (Highest to Lowest)

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0362259

Alignment:

```
ATCATTCTTATGCCTTTG
ATTATTATYAT-------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

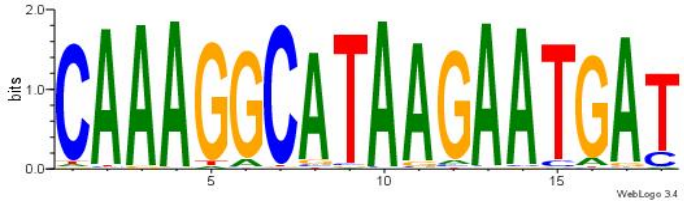

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

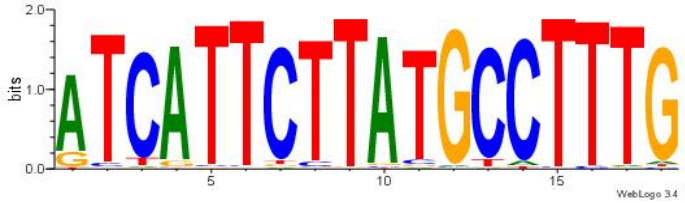

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0458076

Alignment:

```
CCTMACAATCATGG
-ATMATAATAAT--
```

Original motif Consensus sequence: CCATGATTGTRAGG

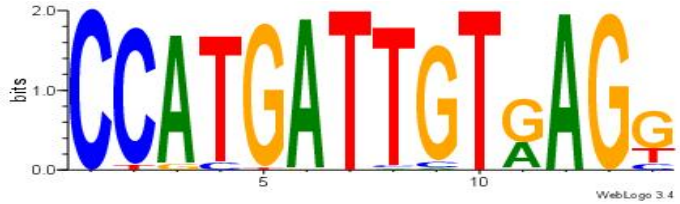

Reverse complement motif Consensus sequence: CCTMACAATCATG

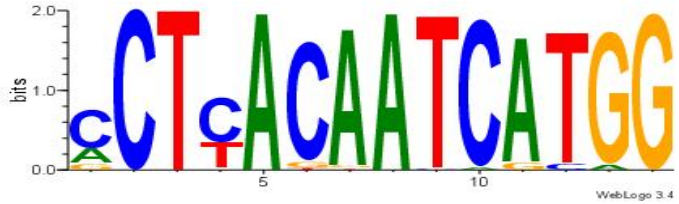

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0543851

Alignment:

```
GCAGCAMTATTCACAATAG
------ATMATAATAAT--
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

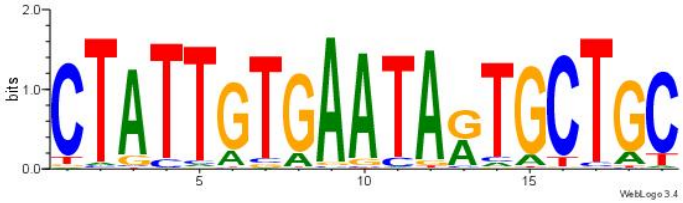

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

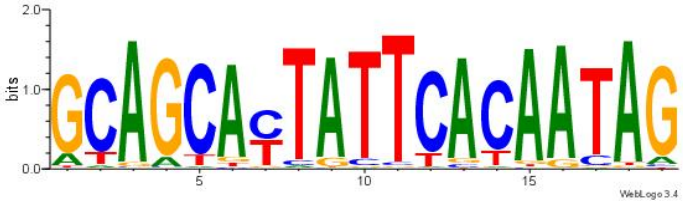

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 11
Similarity score: 0.0550832

Alignment:
CAMTTAGCATAATG
--ATMATAATAAT-

Original motif Consensus sequence: CATTATGCTAARTG

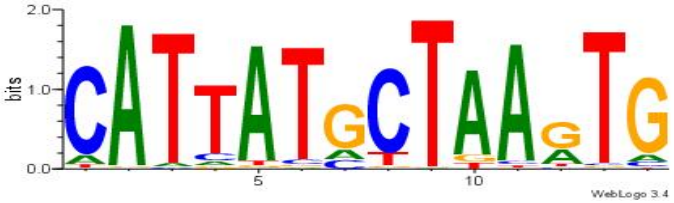

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

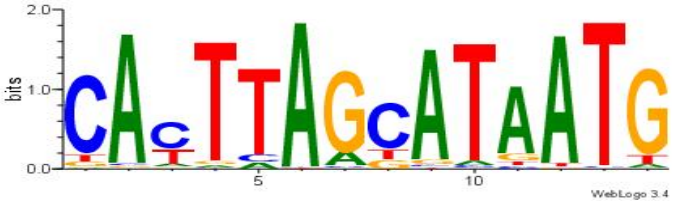

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0576294

Alignment:
ATGGAATAYTATTCAGCCAT
-------ATMATAATAAT--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

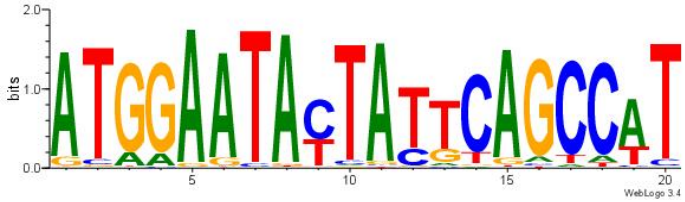

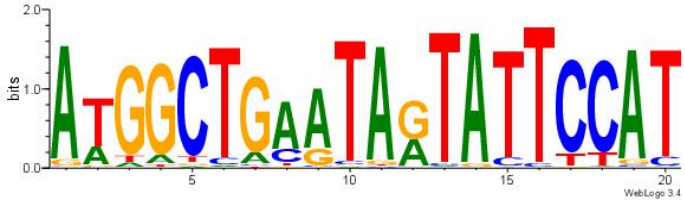

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0576401

Alignment:

```
GGTCAGGATCATCAATAT
-------ATTATTATYAT
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

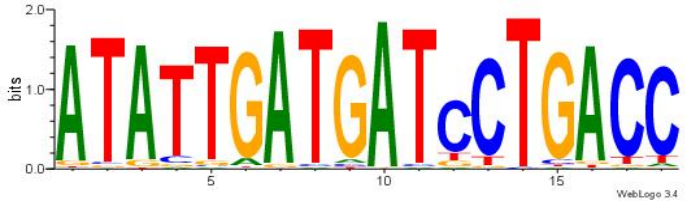

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

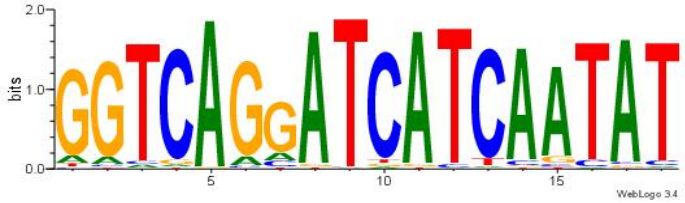

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0593635

Alignment:

```
AAAATCACAAGCATTCCTAT
---ATMATAATAAT------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

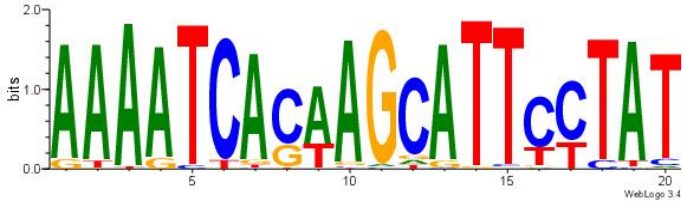

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

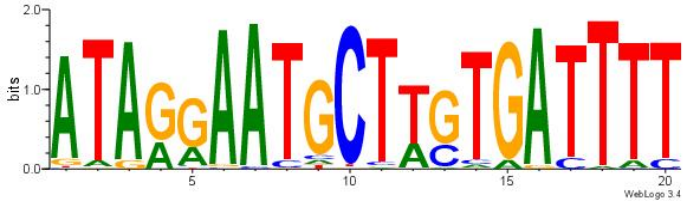

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11

Similarity score: 0.0608842

Alignment:
TTTYTWTTTTTTYTWGAGAC
-------ATTATTATYAT--

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

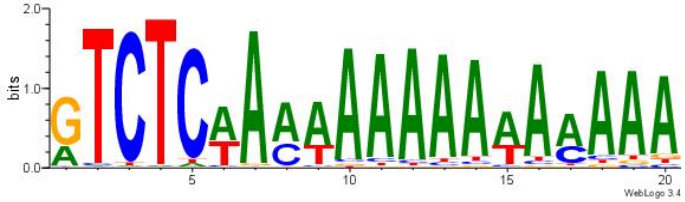

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

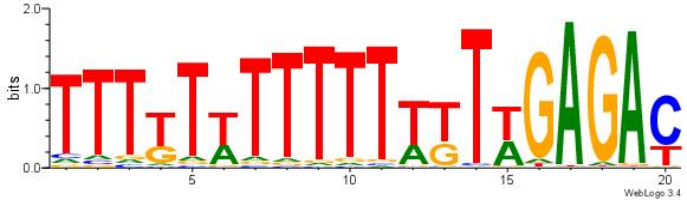

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.065752

Alignment:
CTCAGTGTTAATCTCCTGTC
---ATTATTATYAT------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

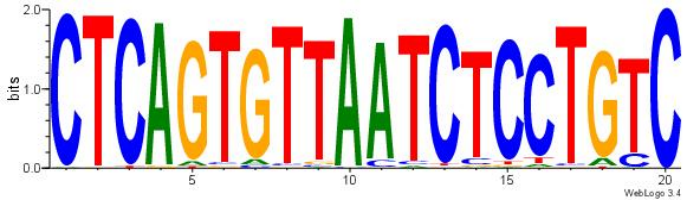

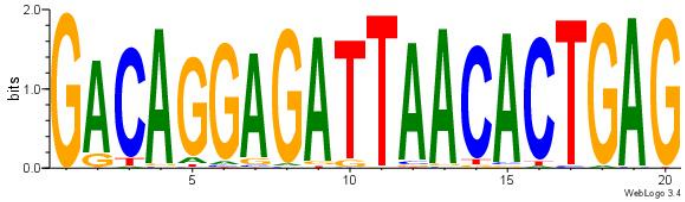

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0660757

Alignment:

```
AACAACAACAACAAMAA
-----ATMATAATAAT-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

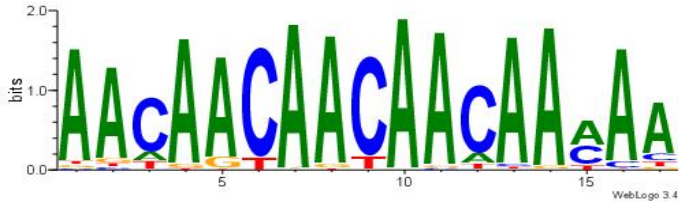

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

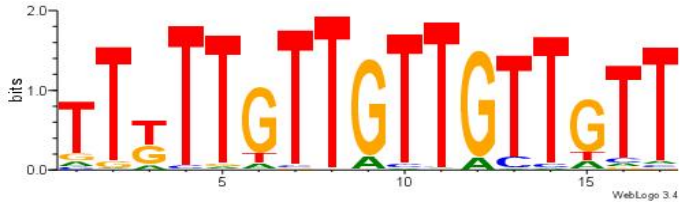

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0684422

Alignment:

```
CTCATTTAATCCTCACAAC
ATMATAATAAT--------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

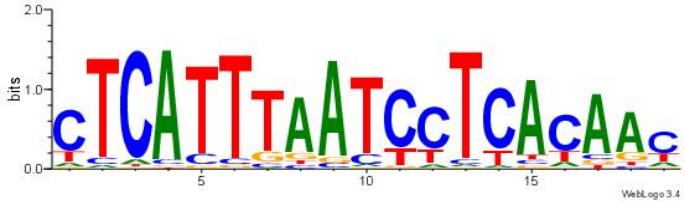

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

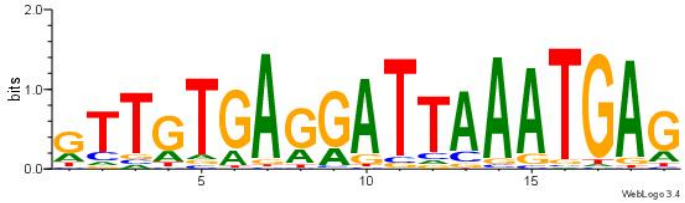

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.06871

Alignment:
AAATGGAATCAT
-ATTATTATYAT

Original motif Consensus sequence: AAATGGAATCAT

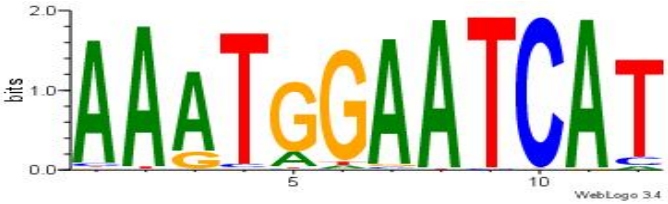

Reverse complement motif Consensus sequence: ATGATTCCATTT

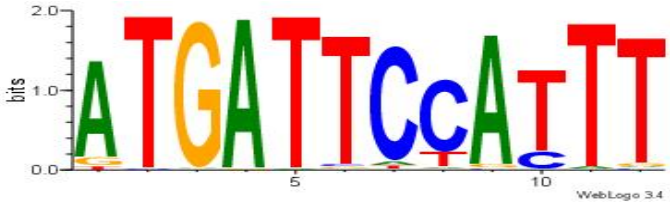

Dataset #: 1
Motif ID: 354
Motif name: Motif 354
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0692456

Alignment:
GTCTTTATCAGC
ATTATTATYAT-

Original motif Consensus sequence: GCTGATAAAGAC

Reverse complement motif Consensus sequence: GTCTTTATCAGC

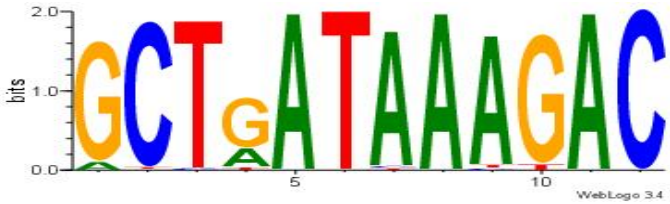

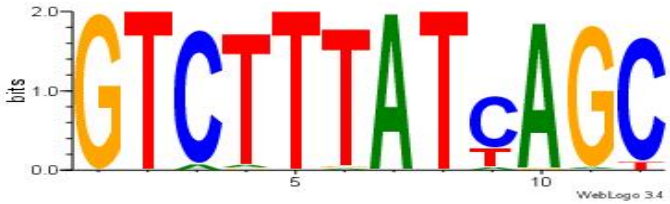

Dataset #:	1
Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0704451

Alignment:

```
ATTGCTAGCACA
ATTATTATYAT-
```

Original motif Consensus sequence: ATTGCTAGCACA

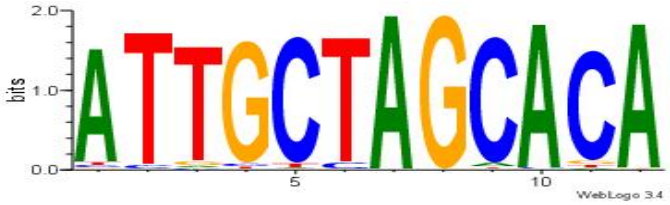

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

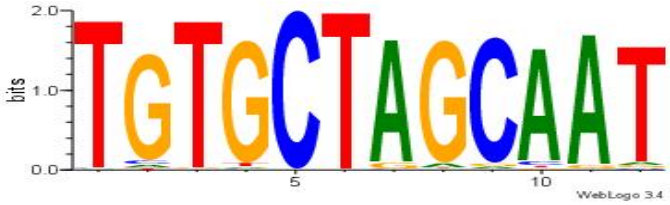

Dataset #:	1
Motif ID:	106

Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0712339

Alignment:

```
ATTGGTGTATTTACAATCCC
---ATMATAATAAT------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

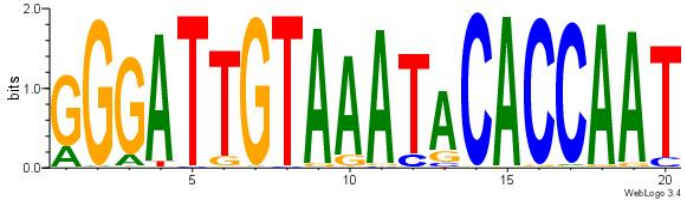

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0727

Alignment:
AAATTAGGCCAATTAATAAC
---------ATMATAATAAT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

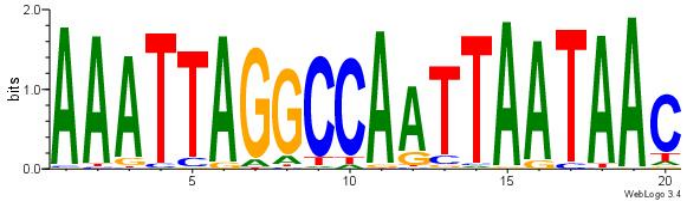

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0732264

Alignment:
CMCAGTTCACAATAGGGTT
-----ATMATAATAAT---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence:
CMCAGTTCACAATAGGGTT

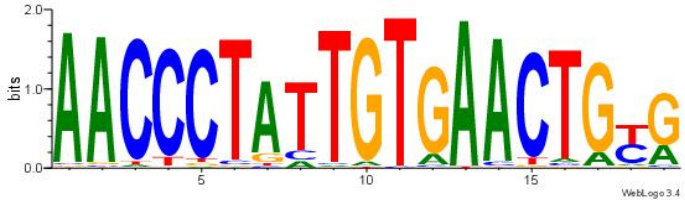

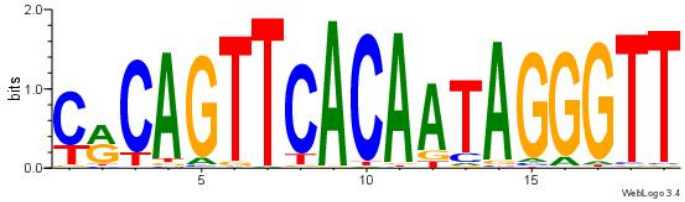

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0741429

Alignment:
GAAHCAACCKAAKTGTCCAT
--ATMATAATAAT-------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

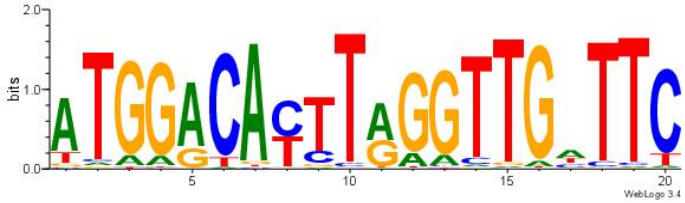

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

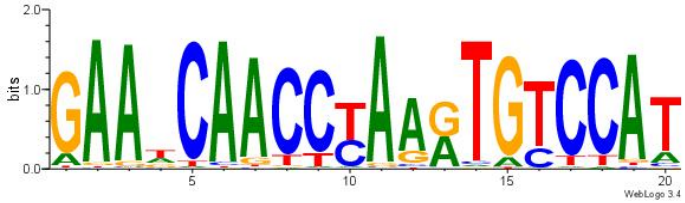

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0741904

Alignment:

```
AAAGCTGGAGCTATTATCTA
---------ATTATTATYAT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

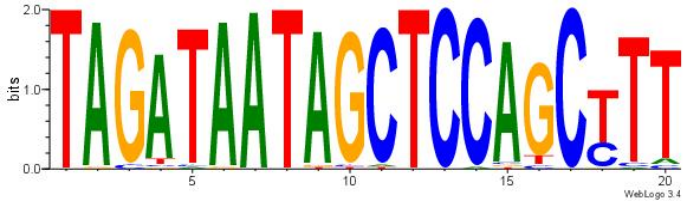

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

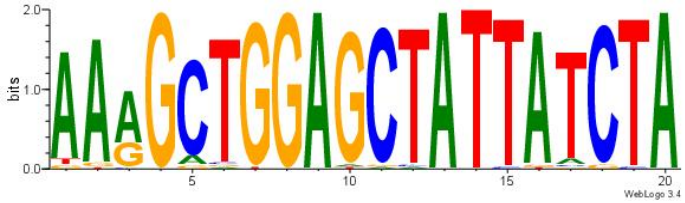

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0754066

Alignment:
AGTTCTTAAAGATGGT
--ATMATAATAAT---

Original motif Consensus sequence: AGTTCTTAAAGATGGT

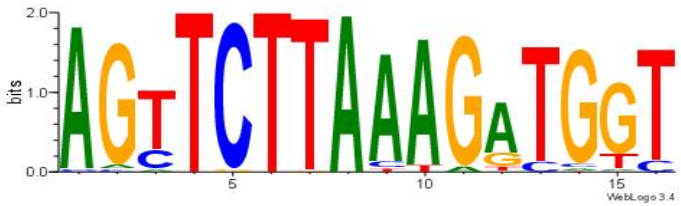

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

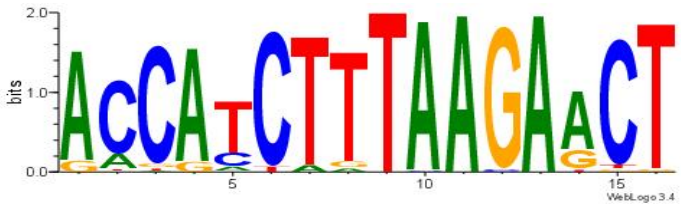

Dataset #: 1
Motif ID: 255
Motif name: Motif 255
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.075778

Alignment:
TTTGTTATAGCAG
ATTATTATYAT--

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

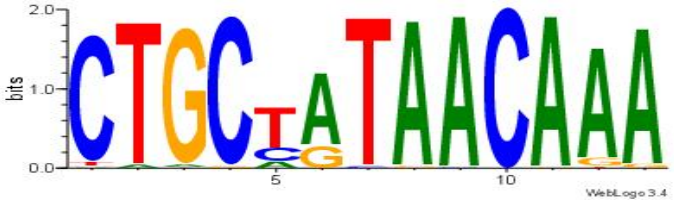

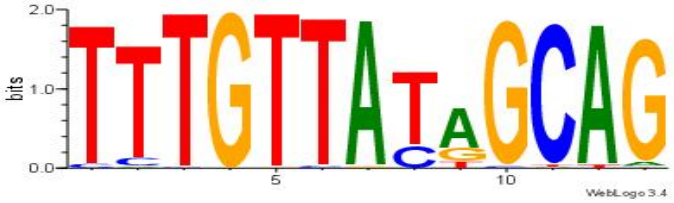

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0759327

Alignment:

```
AATTAAAAGACACAGACTG
-ATMATAATAAT-------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

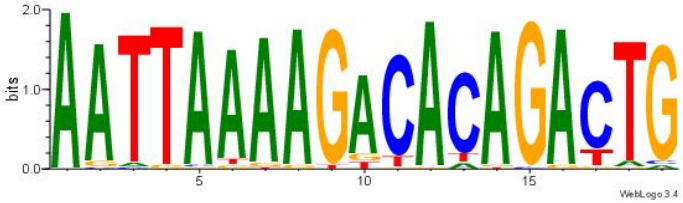

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

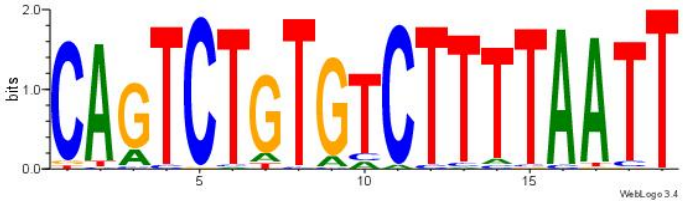

Dataset #: 1

Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0761326

Alignment:

```
TAGTTTTTAACAA
--ATTATTATYAT
```

Original motif Consensus sequence: TAGTTTTTAACAA

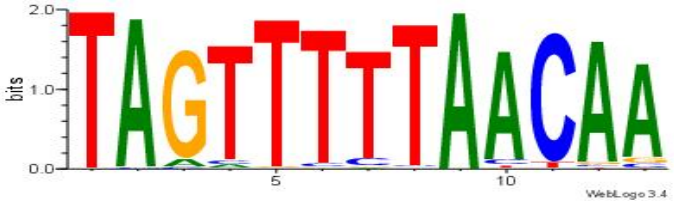

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

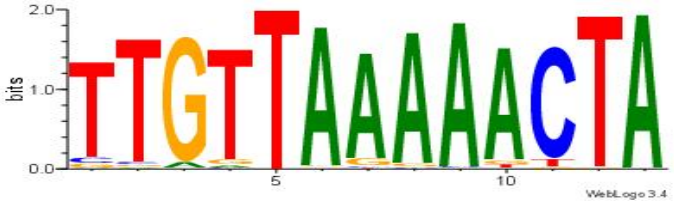

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0761398

Alignment:
AAATCTTAAAGCTC
--ATMATAATAAT-

Original motif Consensus sequence: AAATCTTAAAGCTC

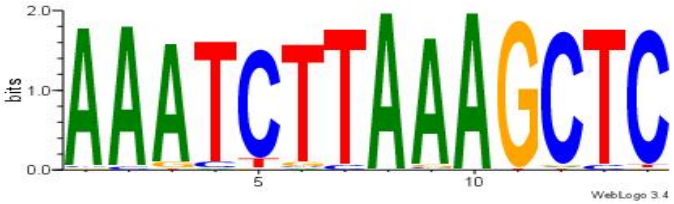

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

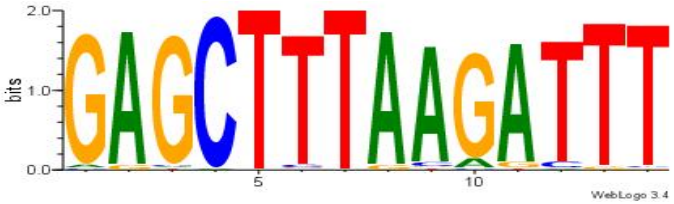

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0767343

Alignment:
ATTCAASATGAGATTTGGG
----ATMATAATAAT----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

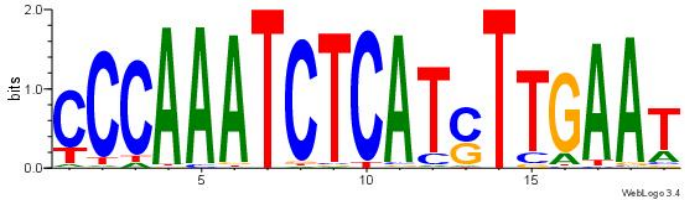

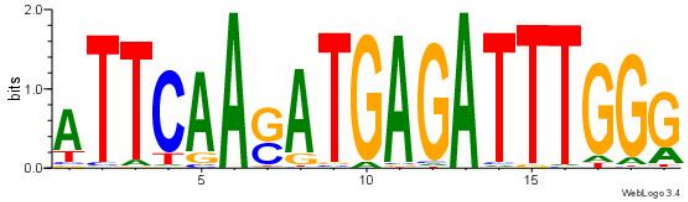

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0773887

Alignment:

```
AAYRGACTAATACA
---ATMATAATAAT
```

Original motif Consensus sequence: AAYRGACTAATACA

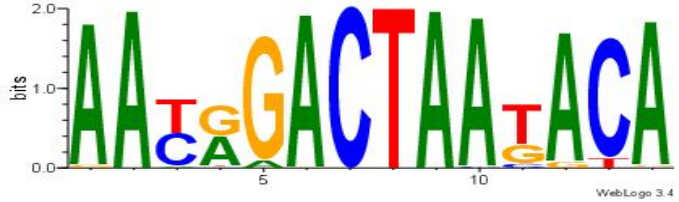

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

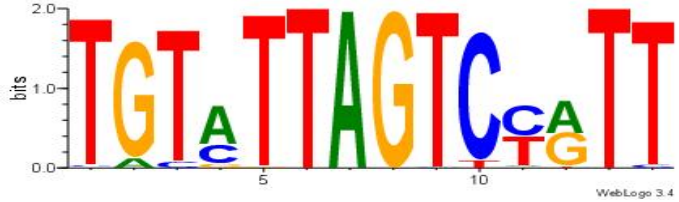

Dataset #:	1
Motif ID:	99

Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0777714

Alignment:

```
GCAAAKGACATGATYTCATT
ATMATAATAAT---------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

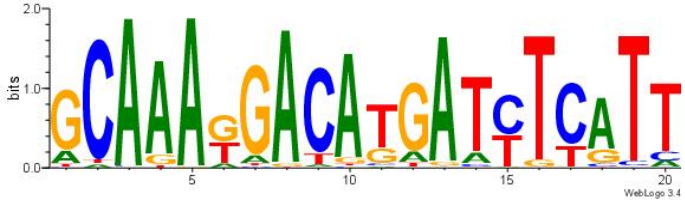

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

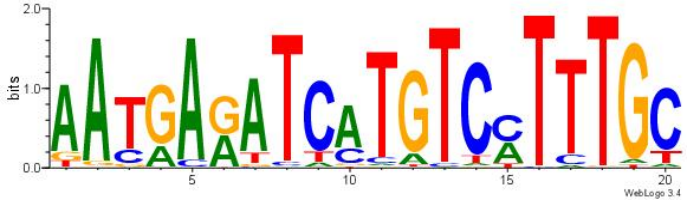

Dataset #:	1
Motif ID:	126
Motif name:	Motif 126
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0778246

Alignment:
GATTACAGGCMT
-ATMATAATAAT

Original motif Consensus sequence: AYGCCTGTAATC

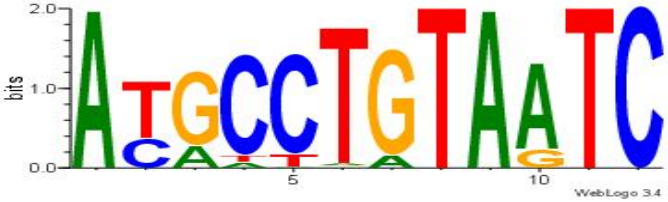

Reverse complement motif Consensus sequence: GATTACAGGCMT

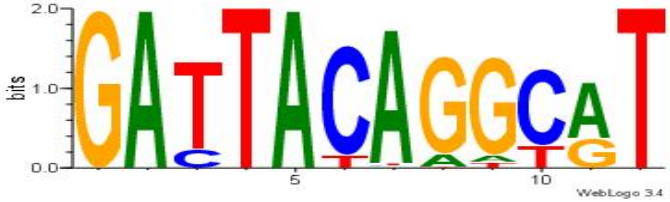

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0779987

Alignment:
KACATTGATTTTGTATC
---ATTATTATYAT---

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

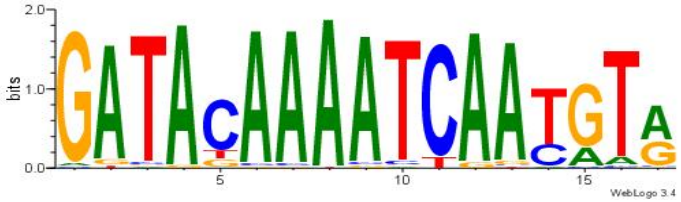

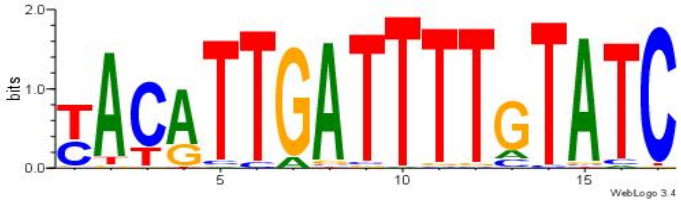

Dataset #:	1
Motif ID:	80
Motif name:	Motif 80
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0781259

Alignment:

```
WTTTTWAAAAW
ATTATTATYAT
```

Original motif Consensus sequence: WTTTTWAAAAW

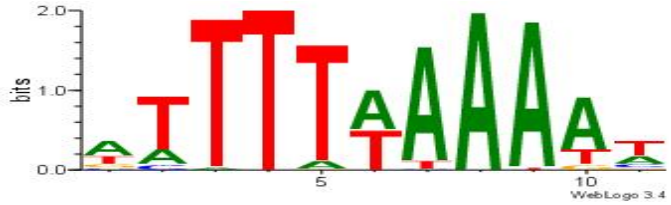

Reverse complement motif Consensus sequence: WTTTTWAAAAW

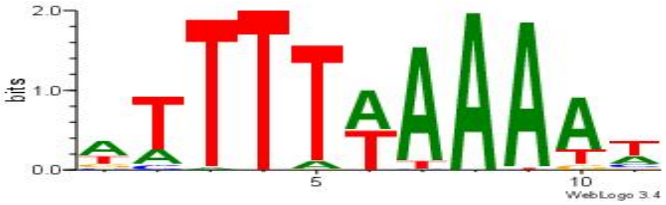

Dataset #:	1
Motif ID:	63

Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0785036

Alignment:

```
AGTGAGAACATRYRRTRTTT
--------ATMATAATAAT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

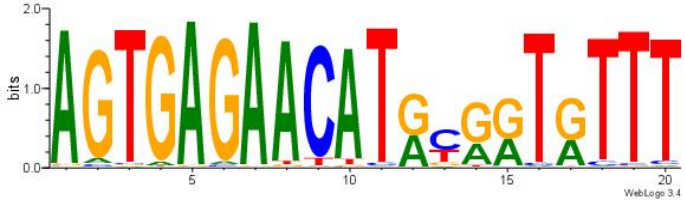

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

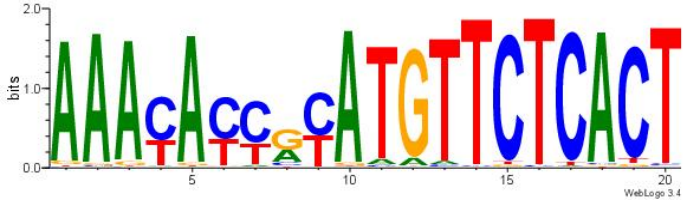

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0786113

Alignment:
CAGCTACTCKTATACCCTTG
--ATTATTATYAT-------

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

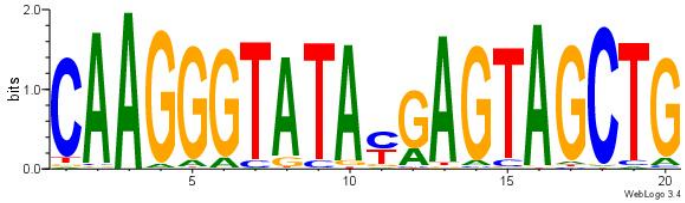

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

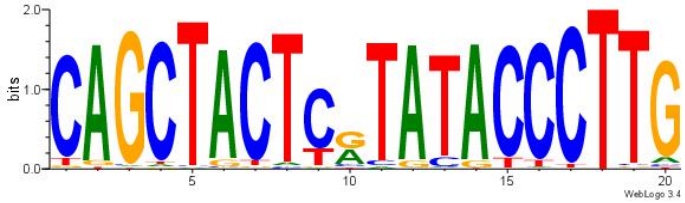

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0787647

Alignment:
TWTACCTATGTAACAAACCT
---------ATMATAATAAT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

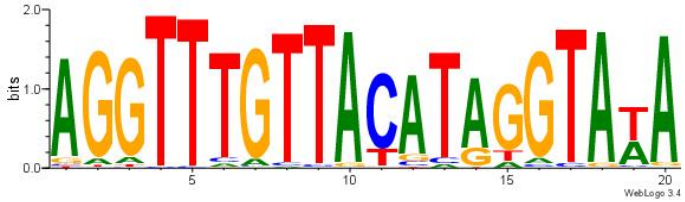

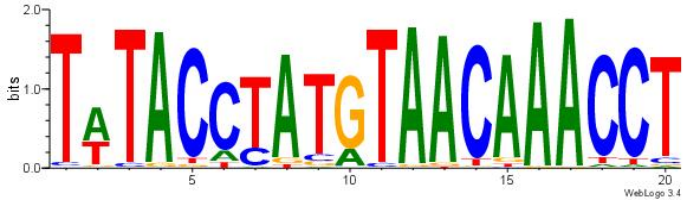

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0787793

Alignment:

```
CCCYAATACTGCGCTTTTC
--ATMATAATAAT------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

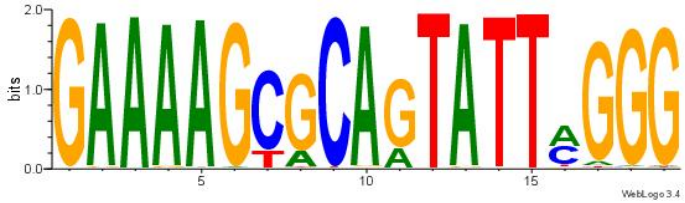

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

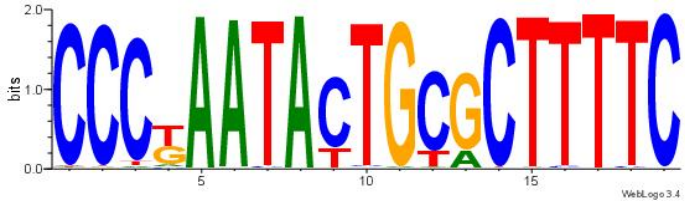

Dataset #: 1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0788098

Alignment:

```
CATTAGATTCTCATAGGA
---ATTATTATYAT----
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

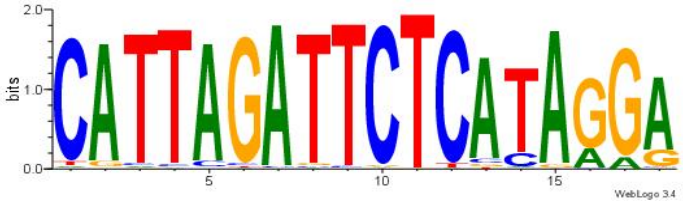

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

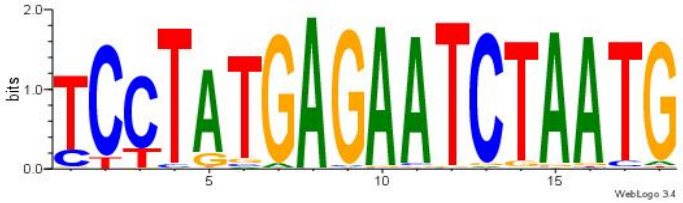

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0796688

Alignment:
WACAATCAGACCTTG
-ATMATAATAAT---

Original motif Consensus sequence: CAAGGTCTGATTGTW

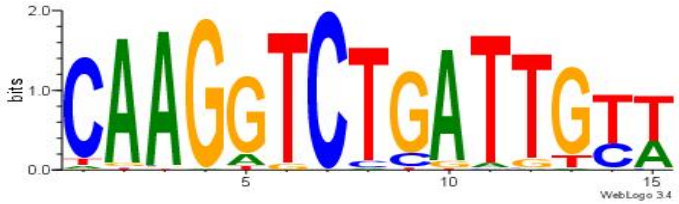

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0804198

Alignment:
ACCCAATWTGTAGTCTTTTA
-----ATTATTATYAT----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

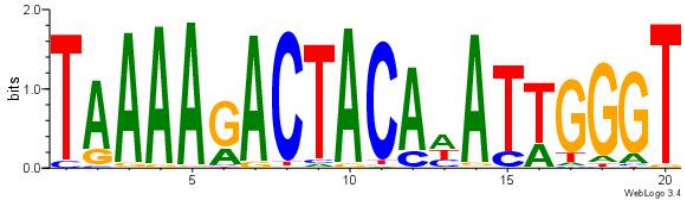

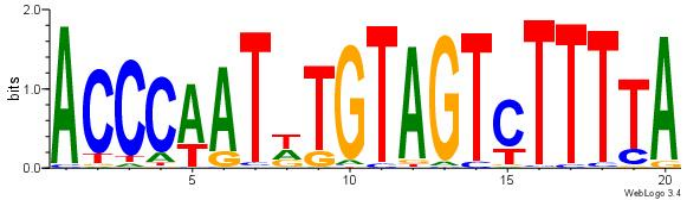

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0808748

Alignment:

```
TTTTATAGGATTTGGG
-ATMATAATAAT----
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

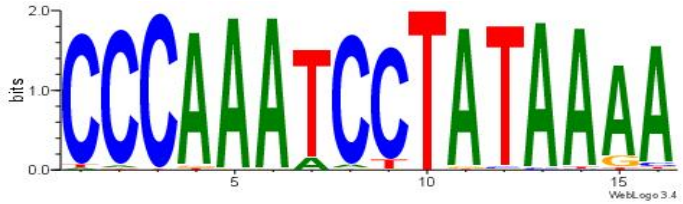

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

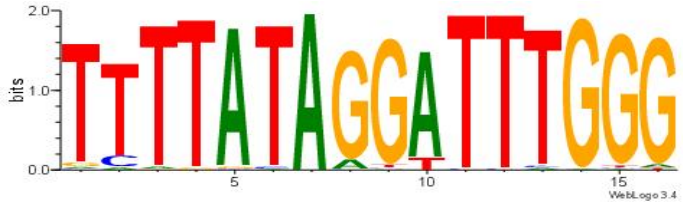

Dataset #:	1

Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0828211

Alignment:

```
ACACCTATTCGCACAC
---ATTATTATYAT--
```

Original motif Consensus sequence: ACACCTATTCGCACAC

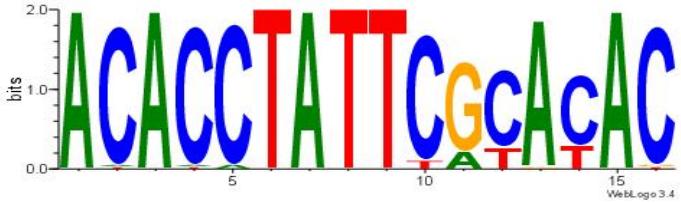

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

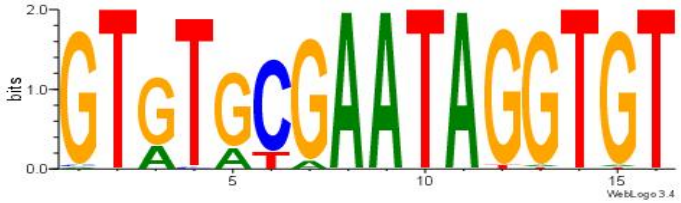

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0831202

Alignment:
TTCAMTCATGATTTGGCTCT
----ATTATTATYAT-----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

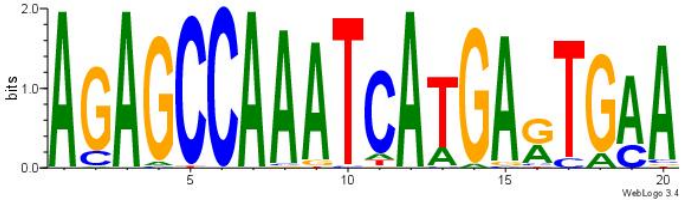

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

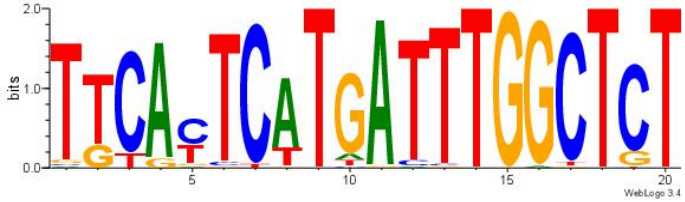

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0839863

Alignment:
CAAGTTGACACATAAAATTA
--------ATMATAATAAT-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

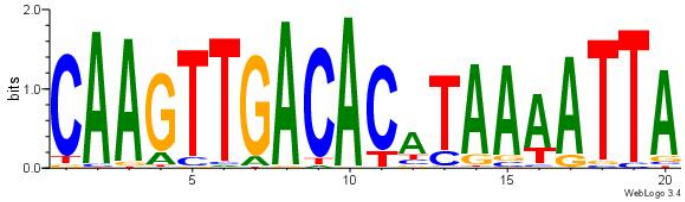

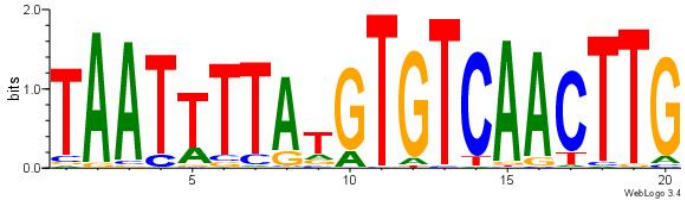

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0847646

Alignment:

```
ATCTCASAAATCACCACTA
ATMATAATAAT--------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

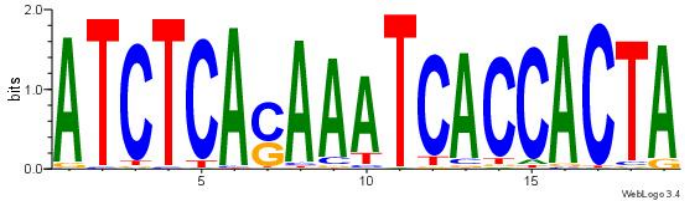

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

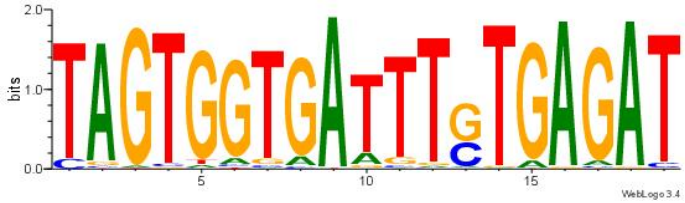

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.084901

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-----ATTATTATYAT----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

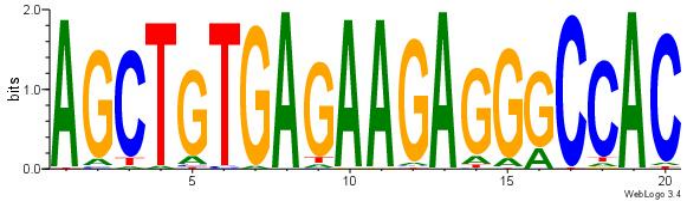

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

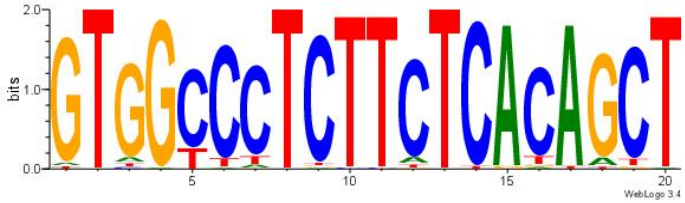

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0857287

Alignment:
GCCAATTTCTCCCATTTGGA
----ATTATTATYAT-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

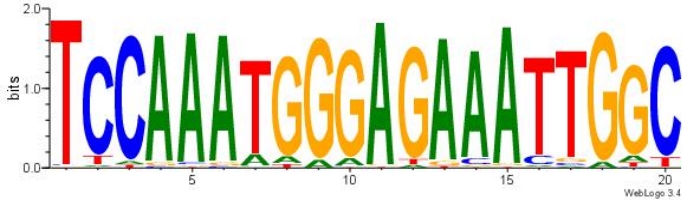

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

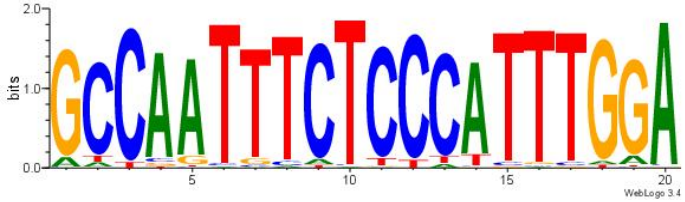

Dataset #: 1
Motif ID: 268
Motif name: Motif 268
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0860939

Alignment:
ATAGTGAGACC
ATMATAATAAT

Original motif Consensus sequence: ATAGTGAGACC

Reverse complement motif Consensus sequence: GGTCTCACTAT

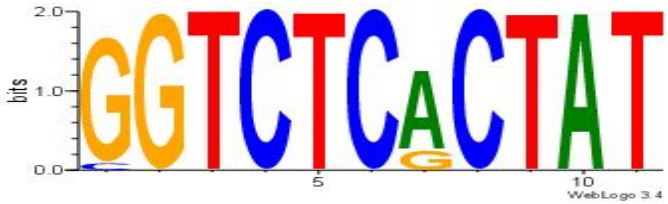

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0864577

Alignment:

```
AAGGAAAAGAAA
ATMATAATAAT-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

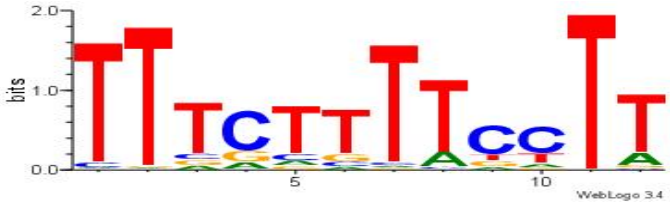

Dataset #:	1
Motif ID:	145

Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0867834

Alignment:

```
TYTGTCMTTTTGTGACTGGC
ATTATTATYAT---------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

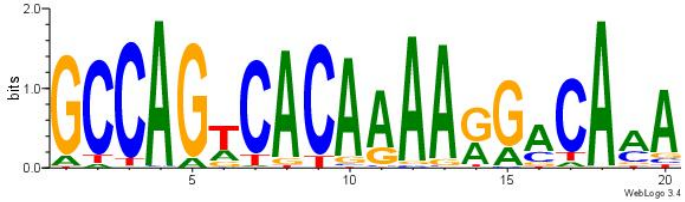

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

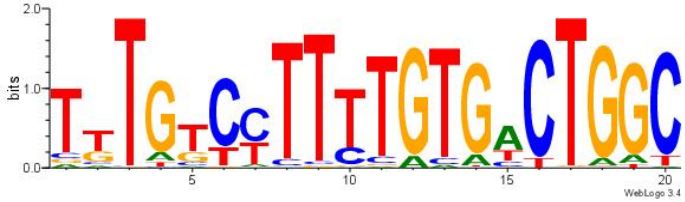

Dataset #:	1
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0868677

Alignment:
ATTTTACAGATG
-ATTATTATYAT

Original motif Consensus sequence: CATCTGTAAAAT

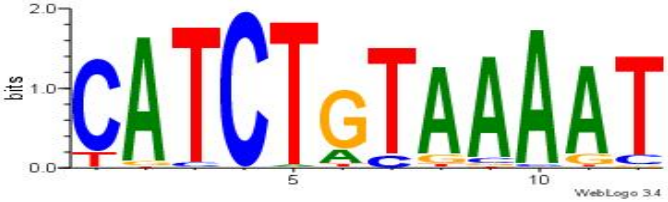

Reverse complement motif Consensus sequence: ATTTTACAGATG

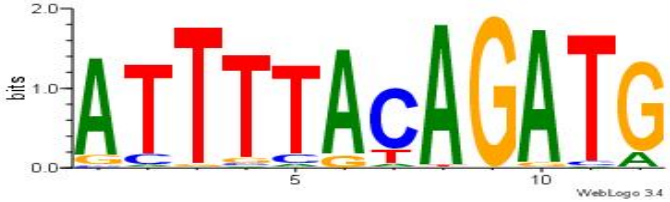

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.086907

Alignment:
ACATCMTCTGAAATCTAGG
--ATMATAATAAT------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

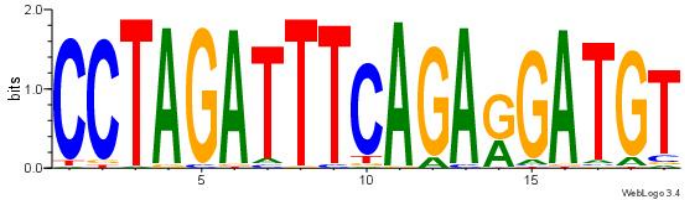

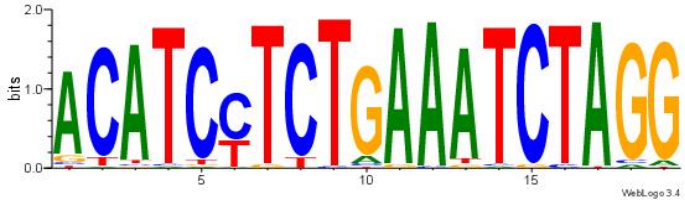

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0871873

Alignment:

```
AAAACCAGCAAGTTTTTAT
--------ATTATTATYAT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

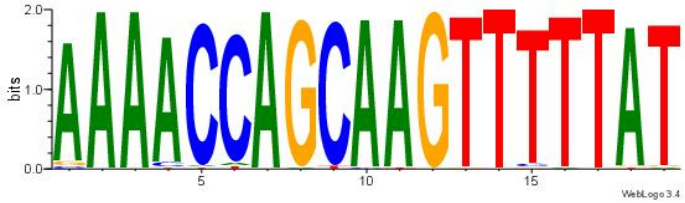

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

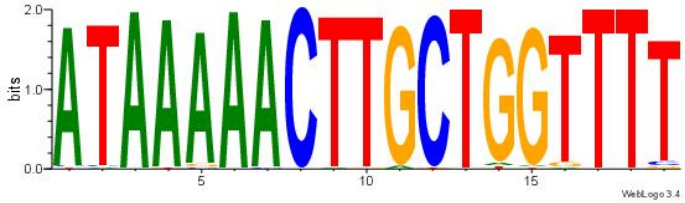

Dataset #: 1 Motif ID: 131 Motif name: Motif 131

Original motif Consensus sequence: CCTGGGTTCAA

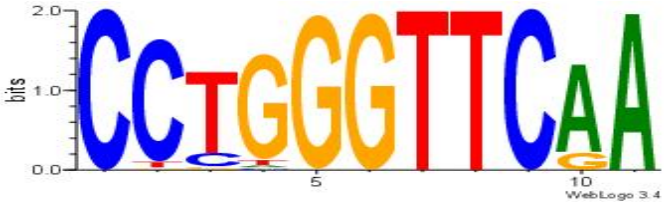

Reverse complement motif Consensus sequence: TTGAACCCAGG

Best Matches for Motif ID 131 (Highest to Lowest)

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.044498

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-----CCTGGGTTCAA----
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

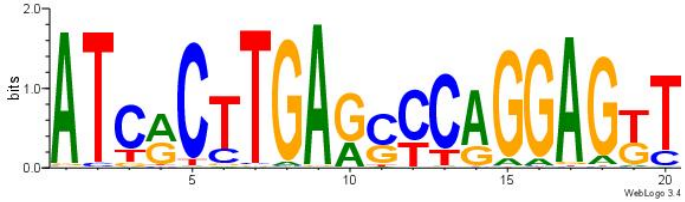

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

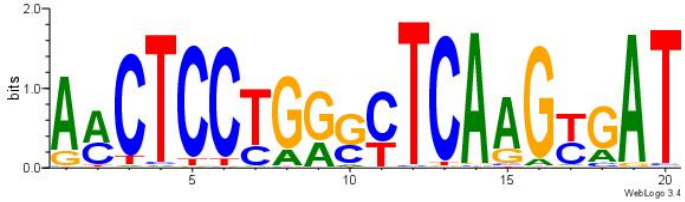

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0639634

Alignment:

```
GCTTAGCACCYGGGCCAGC
-----TTGAACCCAGG---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

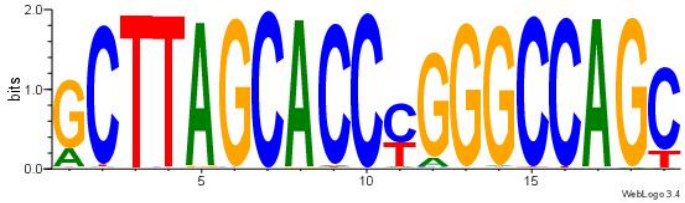

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

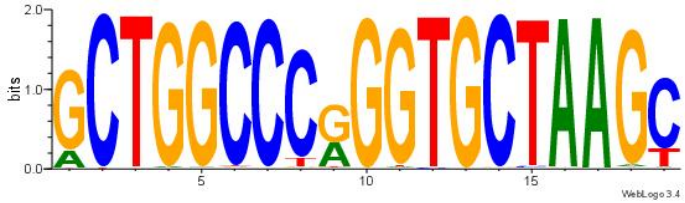

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 11
Similarity score: 0.0646962

Alignment:
TGATACCCAGGCAAACAG
TTGAACCCAGG-------

Original motif Consensus sequence: TGATACCCAGGCAAACAG

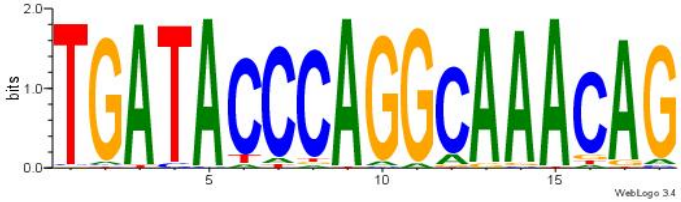

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

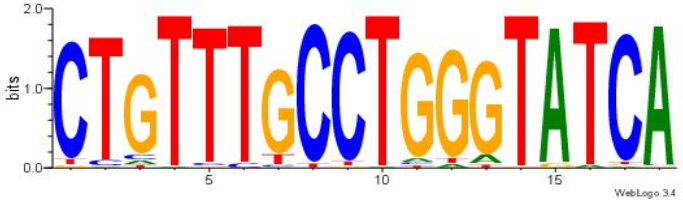

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0706085

Alignment:
ATTGATMKCCAGGGTTGATT
--------CCTGGGTTCAA-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

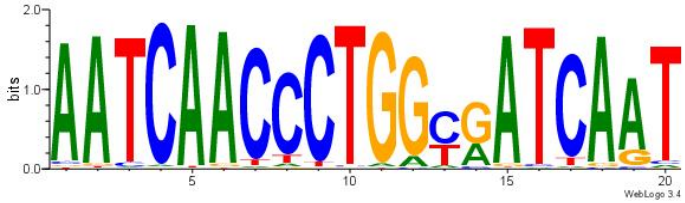

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

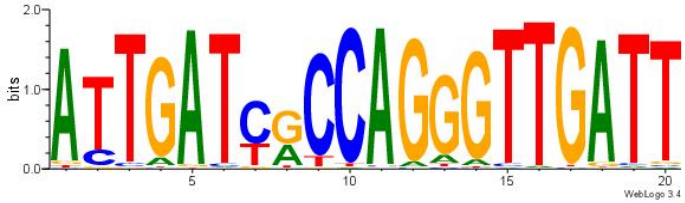

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0708014

Alignment:

```
GACATGGAGTCAAAGG
--CCTGGGTTCAA---
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

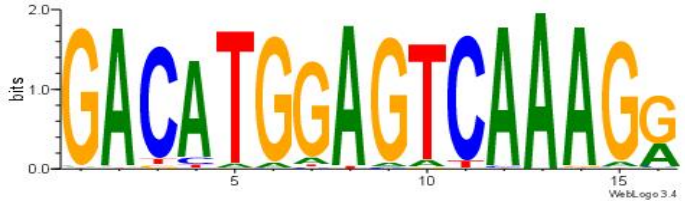

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

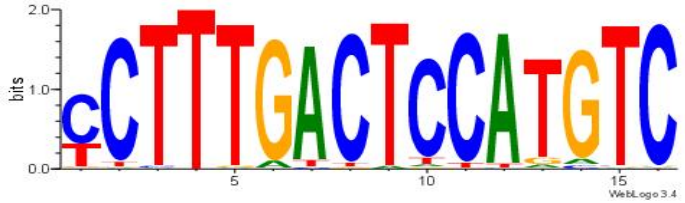

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0709926

Alignment:

```
GCGMGCGGGAACCGGGGCT
------TTGAACCCAGG--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

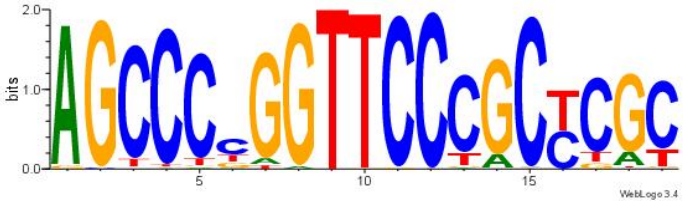

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

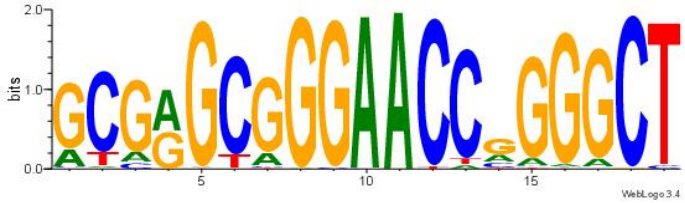

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8

Number of overlap: 11
Similarity score: 0.0726202

Alignment:
CTGAGGACCTGAGGTCRTA
-------CCTGGGTTCAA-

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

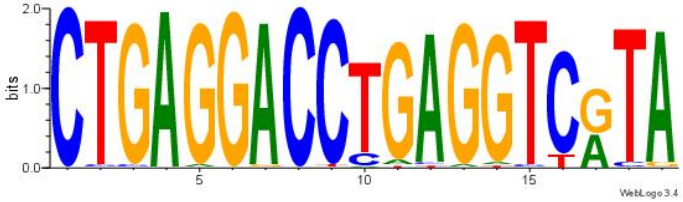

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

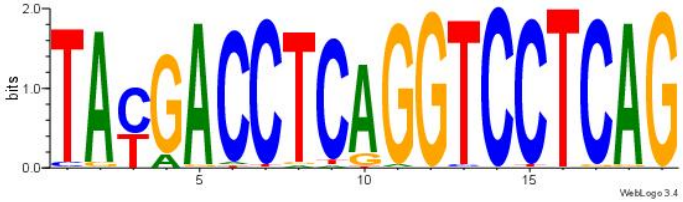

Dataset #: 1
Motif ID: 248
Motif name: Motif 248
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0776442

Alignment:
TTTGTACCCATTA
-TTGAACCCAGG-

Original motif Consensus sequence: TAATGGGTACAAA

Reverse complement motif Consensus sequence: TTTGTACCCATTA

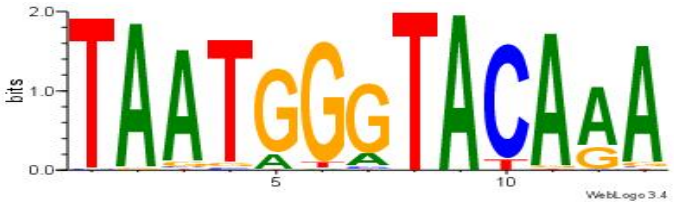

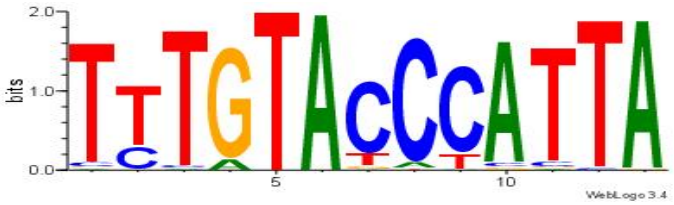

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0804391

Alignment:

```
TGCAGCCCCGGT
TTGAACCCAGG-
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

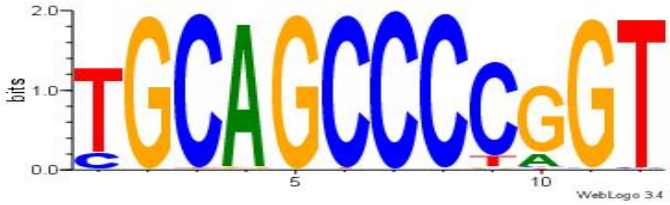

Dataset #:	1
Motif ID:	280

Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0817549

Alignment:

```
ACATCMTCTGAAATCTAGG
--------TTGAACCCAGG
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

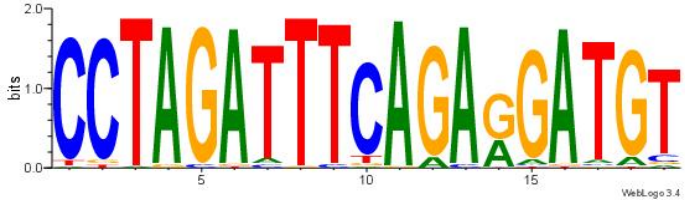

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

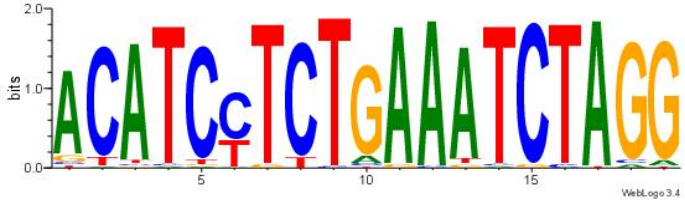

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0821447

Alignment:
ATGTGGAGGTGGAAGACAGT
---------TTGAACCCAGG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

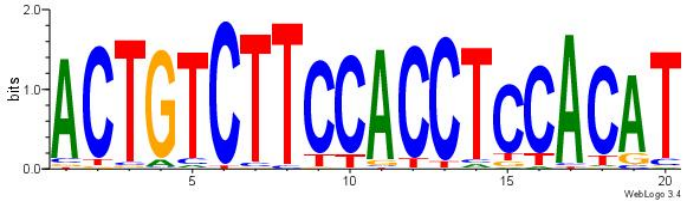

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

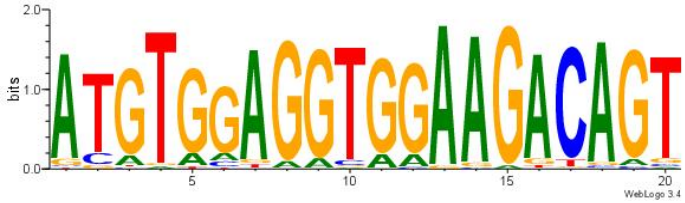

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0857823

Alignment:
AAAAGTCCACAGTCCAAAGT
------CCTGGGTTCAA---

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

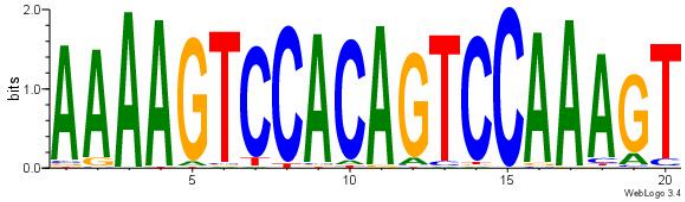

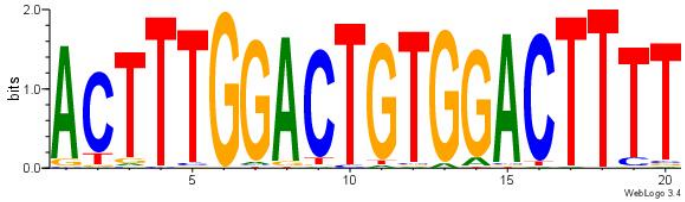

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0865433

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
------TTGAACCCAGG---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

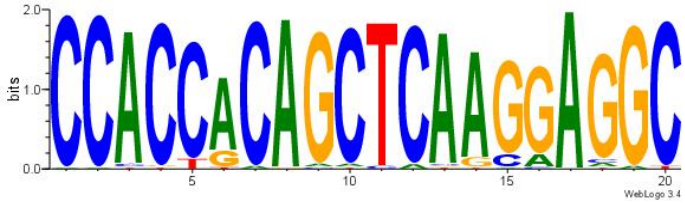

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

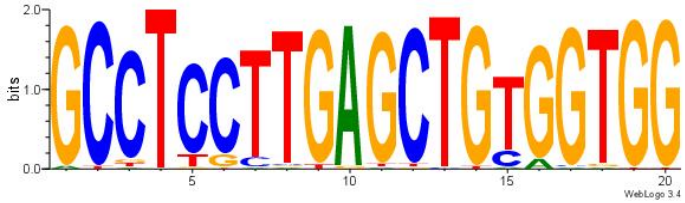

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0869158

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-----CCTGGGTTCAA----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

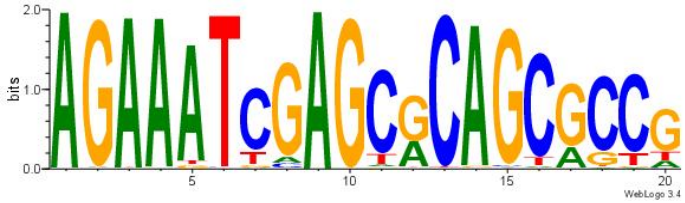

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

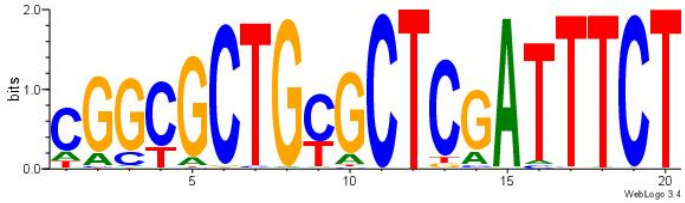

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0874316

Alignment:
AGGASCSTCYSWGCCMGGY
-TTGAACCCAGG-------

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

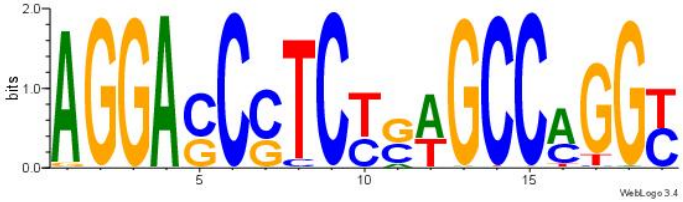

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

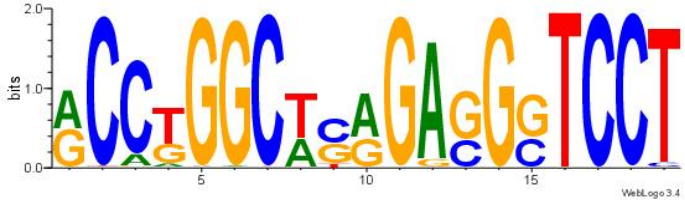

Dataset #: 1
Motif ID: 275
Motif name: Motif 275
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0875086

Alignment:
TTTAACTCTGTGAG
TTGAACCCAGG---

Original motif Consensus sequence: CTCACAGAGTTAAA

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

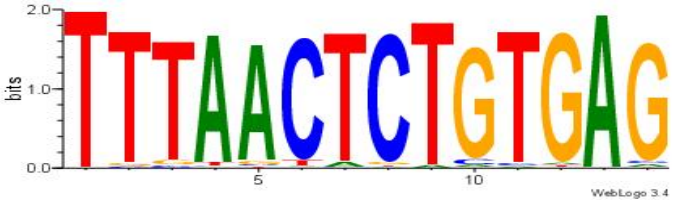

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0882488

Alignment:

```
CATTCTGGGGTCTGGAGGAY
---CCTGGGTTCAA------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

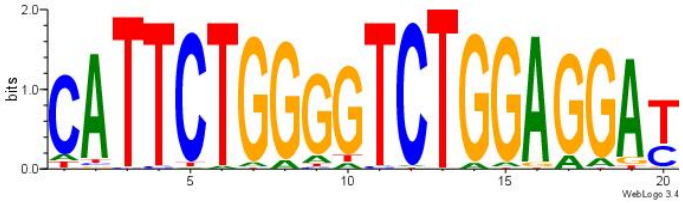

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

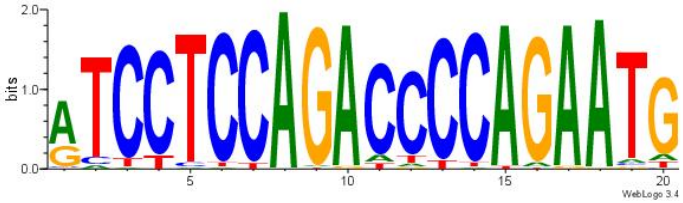

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0885661

Alignment:

```
AAGTTCTKGGKTACATGTGC
-----CCTGGGTTCAA----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

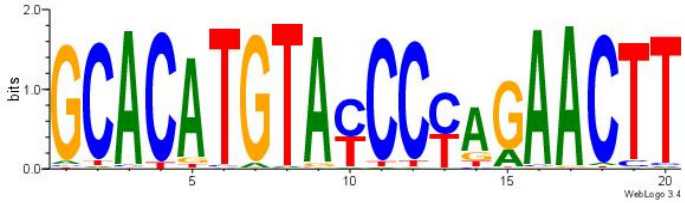

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

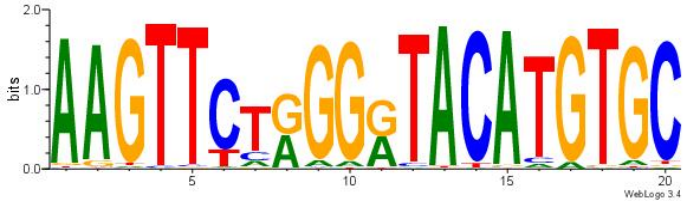

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0886417

Alignment:
TGTCCATGTGTTCTC
----CCTGGGTTCAA

Original motif Consensus sequence: GAGAACACATGGACA

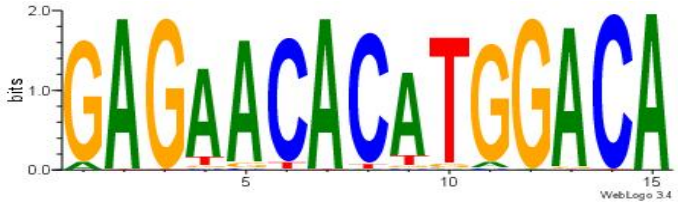

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

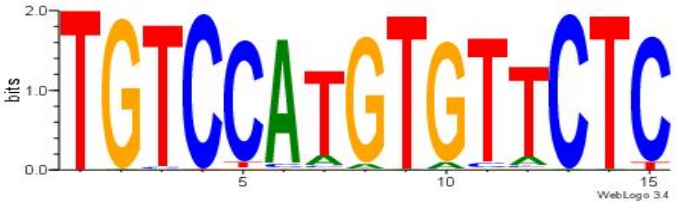

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0887088

Alignment:
TTTGGTGCACCCATCA
----TTGAACCCAGG-

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

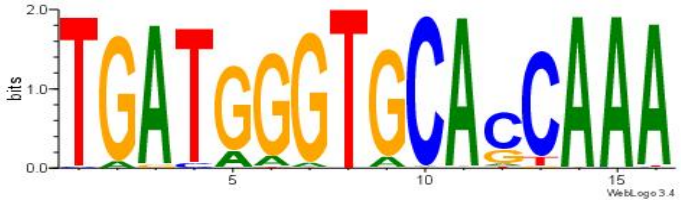

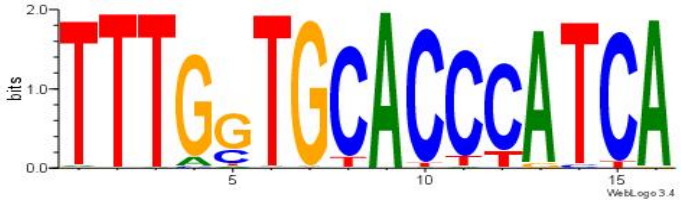

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0896541

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-TTGAACCCAGG--------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

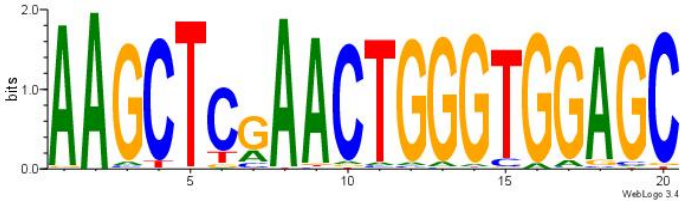

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

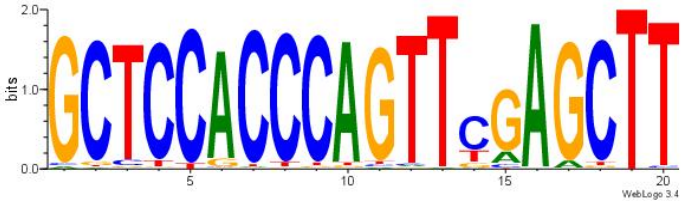

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0904275

Alignment:

```
KGCAACCTAGATCCCT
TTGAACCCAGG-----
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

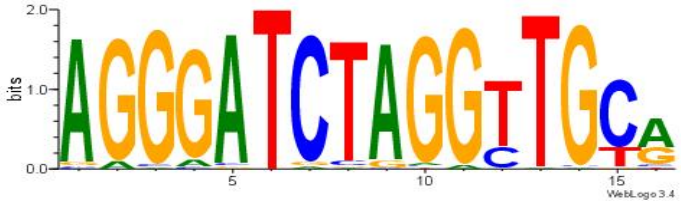

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

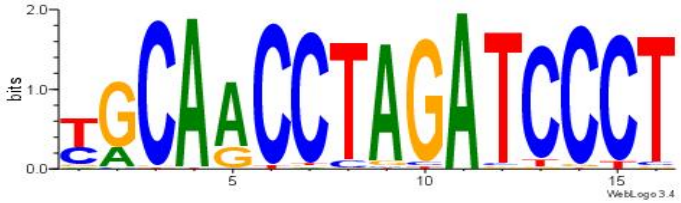

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0905247

Alignment:
GGTGCCCCTCTGGGACRAA
--------CCTGGGTTCAA

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

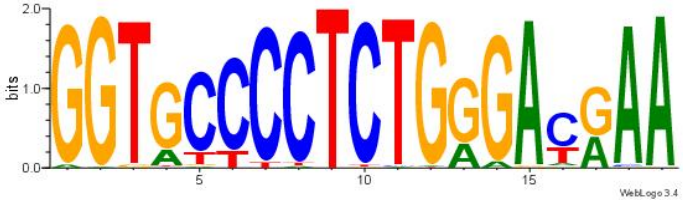

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

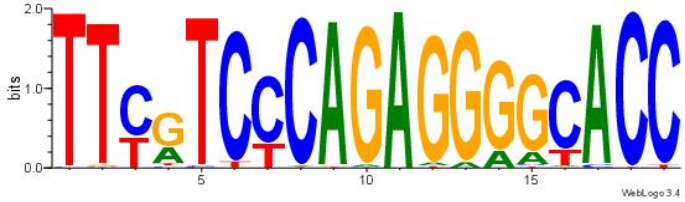

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0906253

Alignment:
GTTTAACCATTGAGGGCCAG
-TTGAACCCAGG--------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

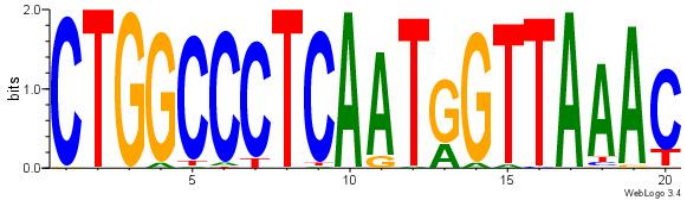

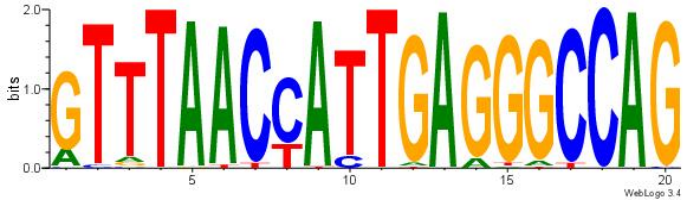

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.09086

Alignment:

```
GTTGGATTCCCAG
--TTGAACCCAGG
```

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	4

Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.092602

Alignment:

```
CCTGTAATCCCAGC
---TTGAACCCAGG
```

Original motif Consensus sequence: GCTGGGATTACAGG

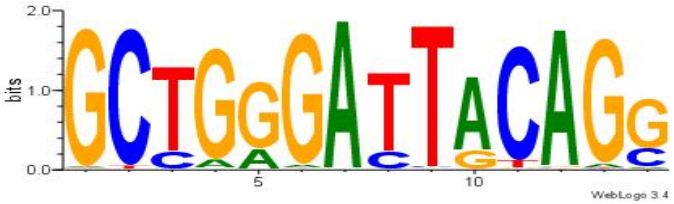

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.092727

Alignment:
CAACATGGATGRARCTGGAG
---CCTGGGTTCAA------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

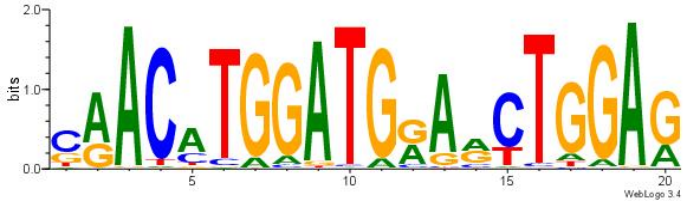

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

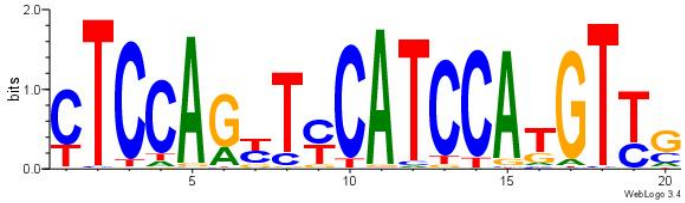

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0954811

Alignment:
TGGCTTCACCCAGTGGATCC
---TTGAACCCAGG------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

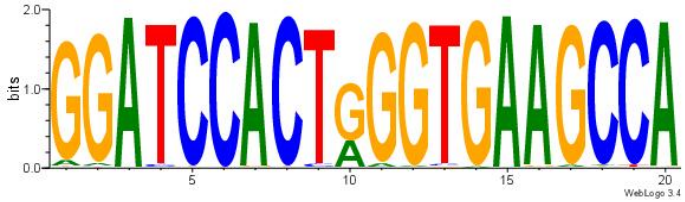

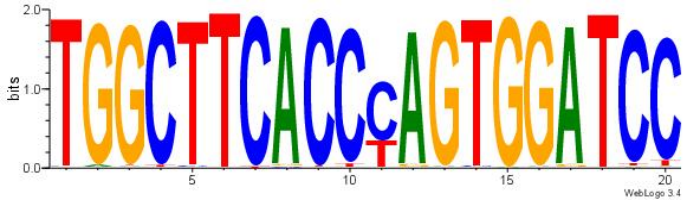

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0962308

Alignment:

```
CATTTCCAWCTGAGGTAC
---TTGAACCCAGG----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

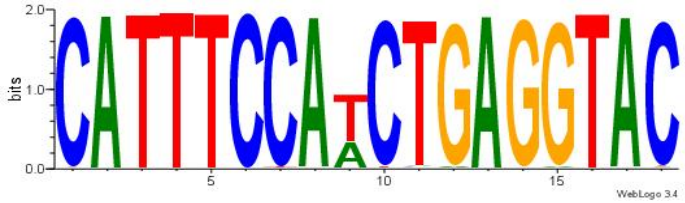

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

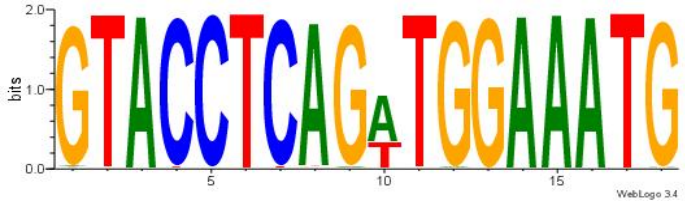

Dataset #:	1

Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0966104

Alignment:

```
GCGGCAGCAAGGC
-TTGAACCCAGG-
```

Original motif Consensus sequence: GCCTTGCTGCCGC

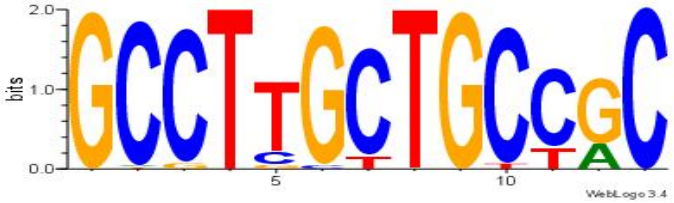

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0969547

Alignment:
TTGAGACMGKGTCT
TTGAACCCAGG---

Original motif Consensus sequence: AGACYCYGTCTCAA

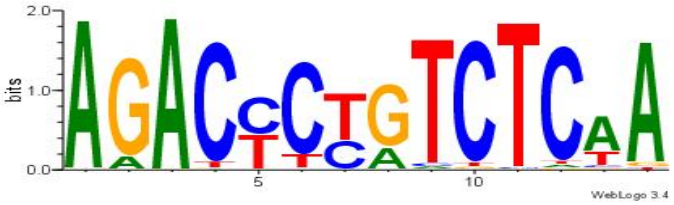

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

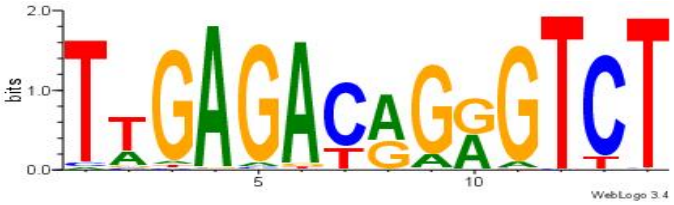

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0973033

Alignment:
GGGAGGTGTCTCCCAGTCAG
------TTGAACCCAGG---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

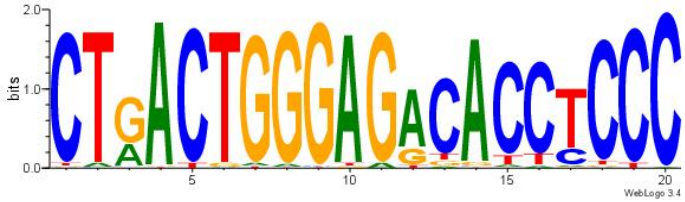

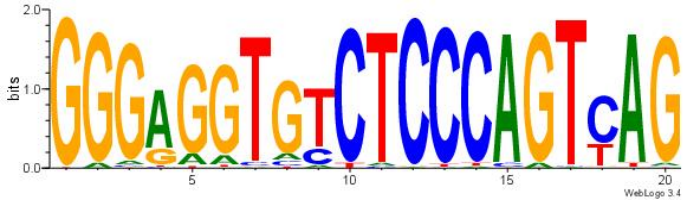

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0975111

Alignment:

```
TCTMKGCTCACTGC
---CCTGGGTTCAA
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

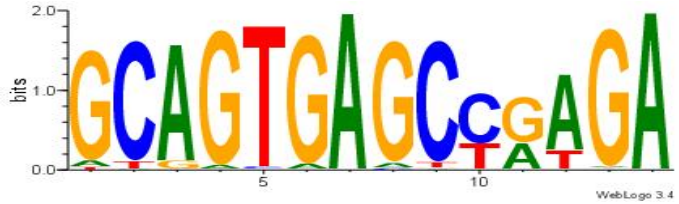

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

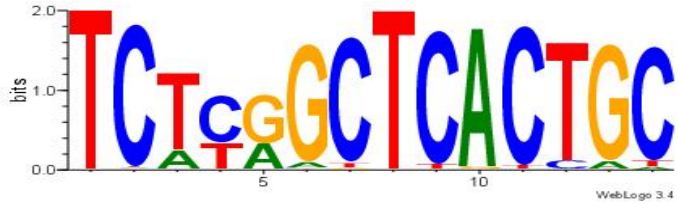

Dataset #:	1
Motif ID:	139

Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.097534

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----TTGAACCCAGG----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

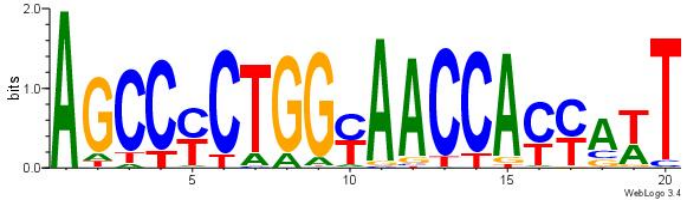

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

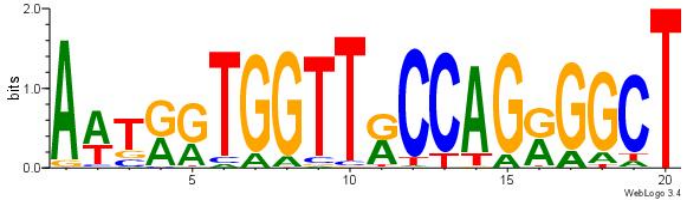

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0982951

Alignment:
AGTGACCCGATTTTCCAGGT
---CCTGGGTTCAA------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

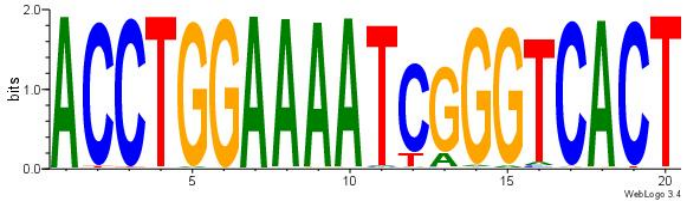

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

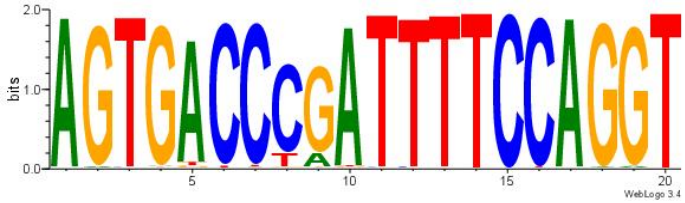

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0983291

Alignment:
CCCTGCTAGAACCTCCAA
------TTGAACCCAGG-

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

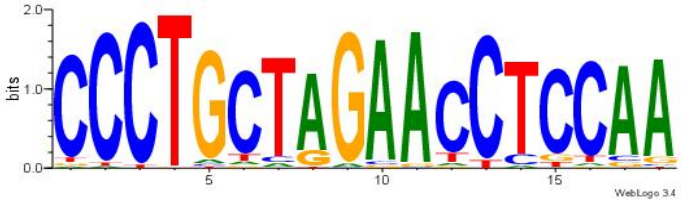

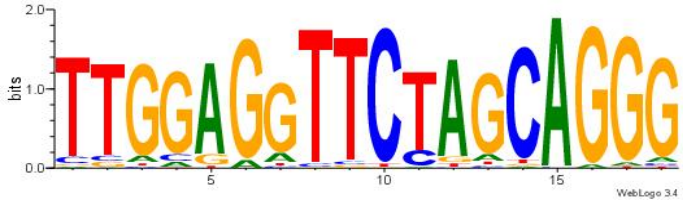

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0990369

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-------CCTGGGTTCAA--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

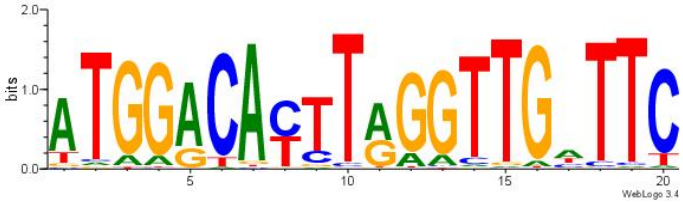

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

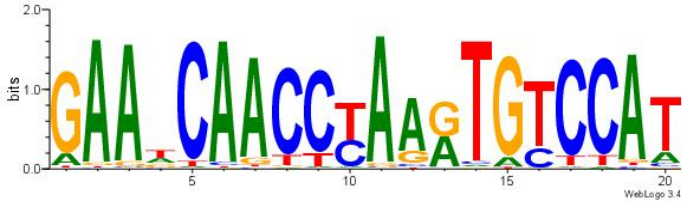

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0993055

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-------TTGAACCCAGG--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

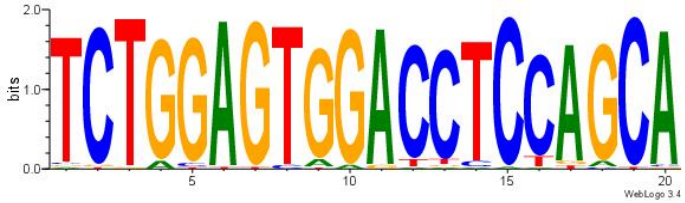

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

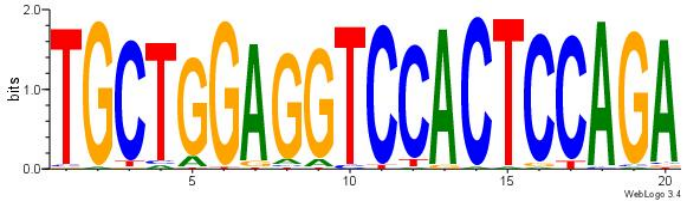

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0995752

Alignment:
HGCTCCTGTGSKCCC
----CCTGGGTTCAA

Original motif Consensus sequence: HGCTCCTGTGSKCCC

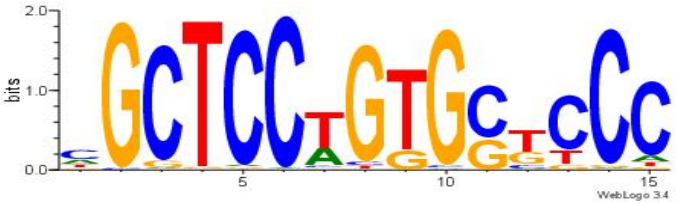

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

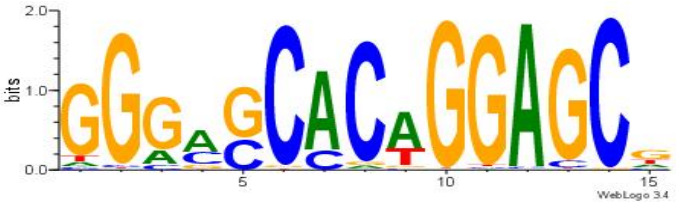

Dataset #: 1
Motif ID: 343
Motif name: Motif 343
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.100171

Alignment:
TGTAATCCCAG
TTGAACCCAGG

Original motif Consensus sequence: CTGGGATTACA

Reverse complement motif Consensus sequence: TGTAATCCCAG

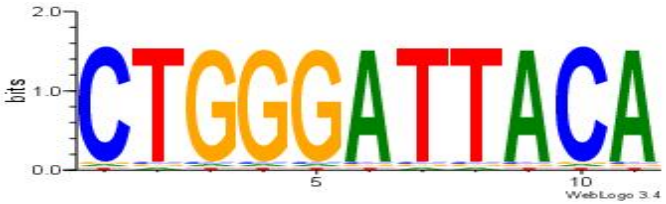

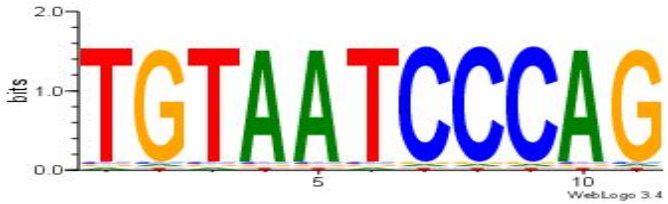

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.100811

Alignment:
AGACAGTGGGYGCAGGHCA
----CCTGGGTTCAA----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

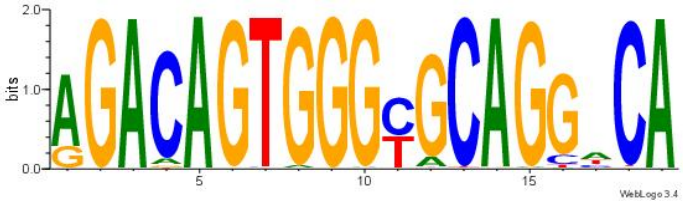

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

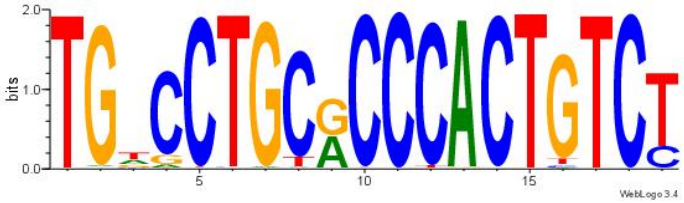

Dataset #: 1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.100921

Alignment:

```
MGGAAACTGAGGC
-TTGAACCCAGG-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

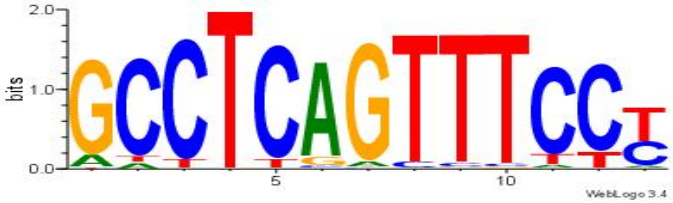

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

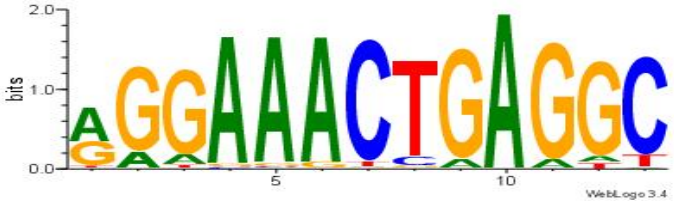

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101284

Alignment:
CRTGAGCCACYGYRCCYGGC
--------TTGAACCCAGG-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

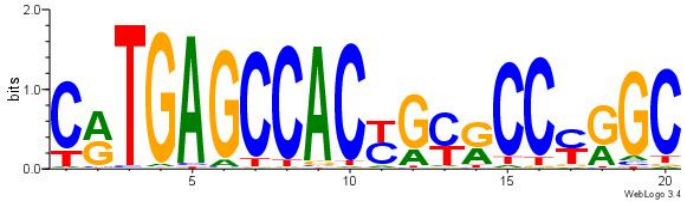

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

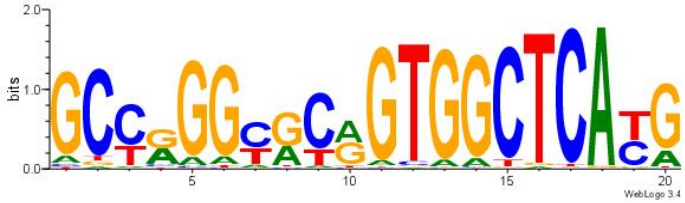

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.101564

Alignment:
GATCACGAGGTCAGGAG
---CCTGGGTTCAA---

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

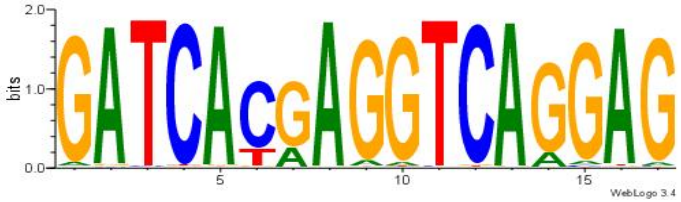

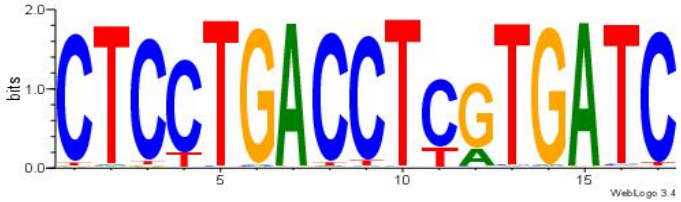

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101777

Alignment:

```
AGGACTGAGGGTGCCYRGGG
--------TTGAACCCAGG-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

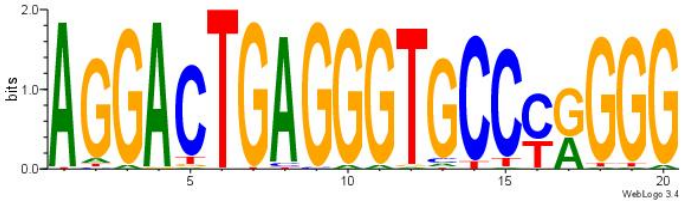

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

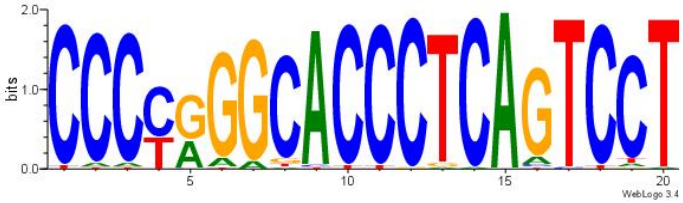

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.10304

Alignment:

```
CAGCTACTCKTATACCCTTG
---------TTGAACCCAGG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

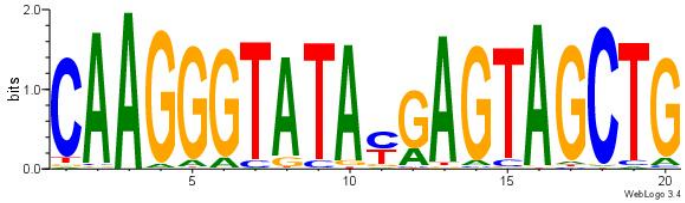

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

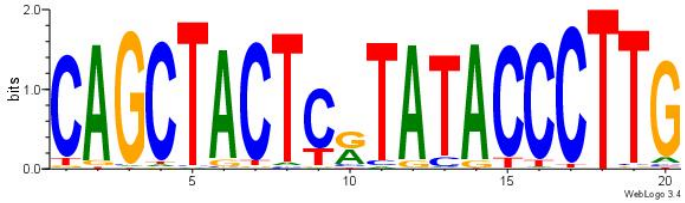

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.103098

Alignment:
GCCGTTTKTTAAGCCCGTY
-TTGAACCCAGG-------

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

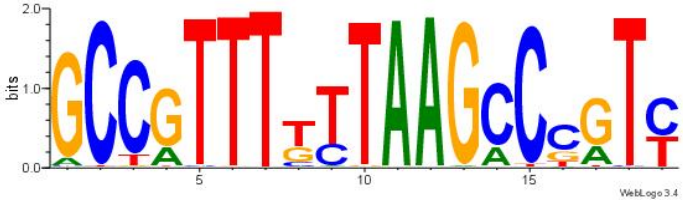

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

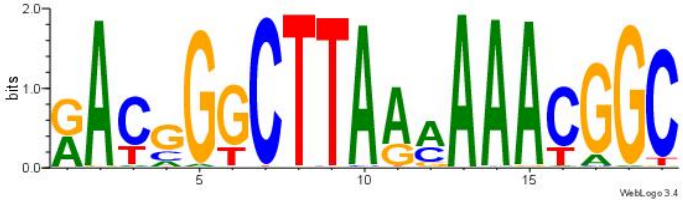

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.103314

Alignment:
AGATGCCAGCCAGAGCTCT
---TTGAACCCAGG-----

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

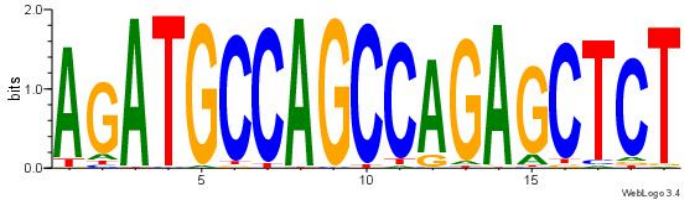

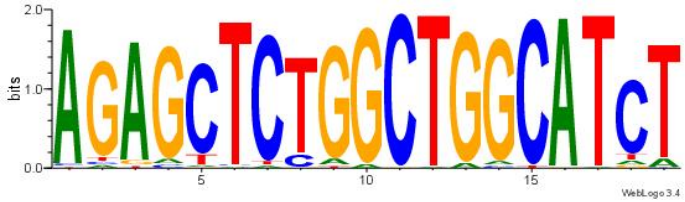

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.103323

Alignment:

```
GTAGCTGGGAYTACA
---CCTGGGTTCAA-
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

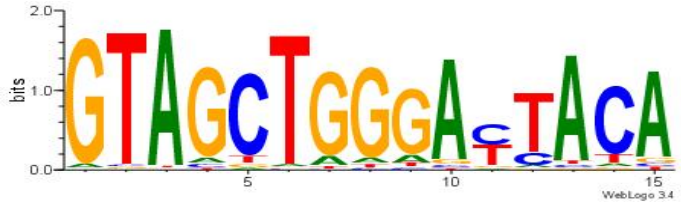

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

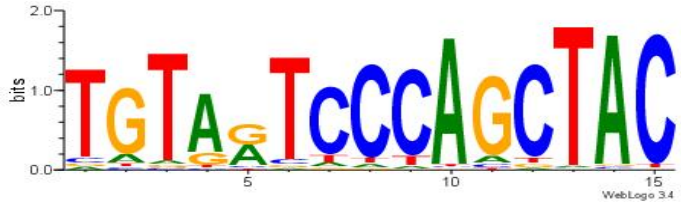

Dataset #:	1
Motif ID:	122

Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.103658

Alignment:

```
CCTTGGCCAGCCCAGAAAG
---TTGAACCCAGG-----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

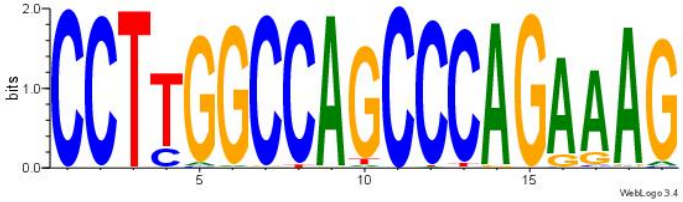

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

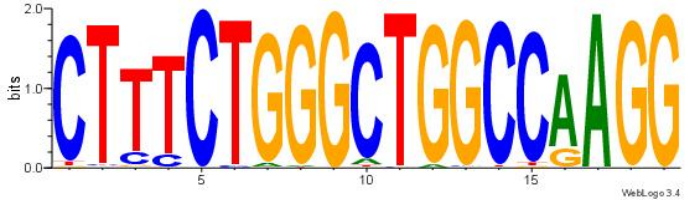

Dataset #: 1 Motif ID: 132 Motif name: Motif 132

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

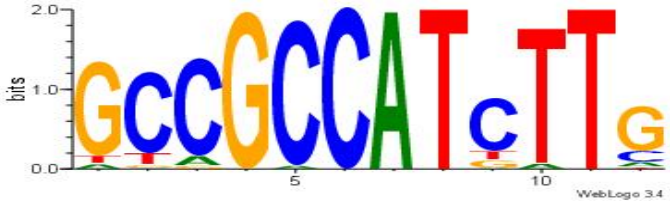

Best Matches for Motif ID 132 (Highest to Lowest)

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0630794

Alignment:

```
GCTGCARTCTCGGCACTTT
GCCGCCATCTTG-------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

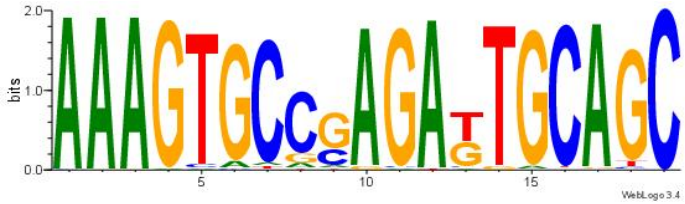

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

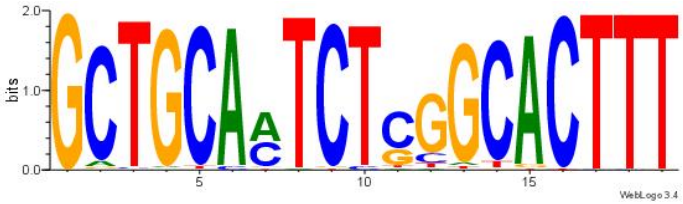

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0641012

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
--------CAAGATGGCGGC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

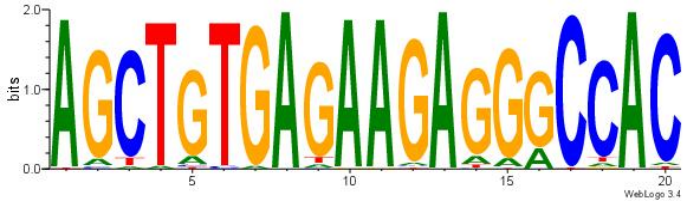

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

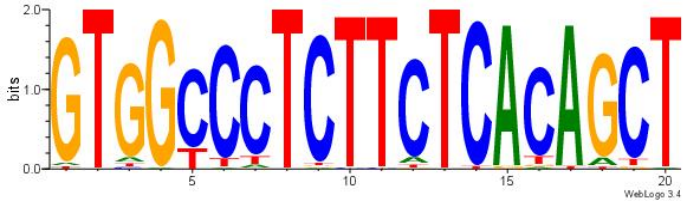

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0710877

Alignment:

```
AGCTCCCAGCGTGAGCGACG
-------GCCGCCATCTTG-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

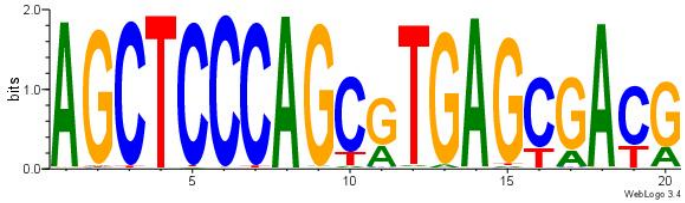

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

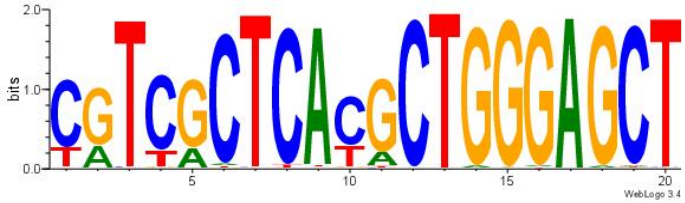

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0731765

Alignment:

```
GCAGCAMTATTCACAATAG
GCCGCCATCTTG-------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

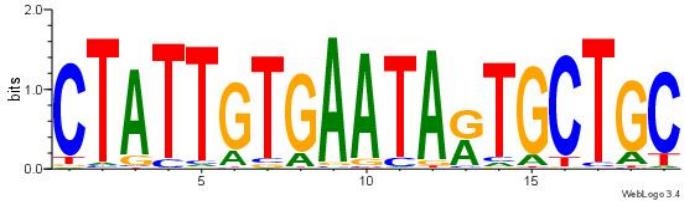

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

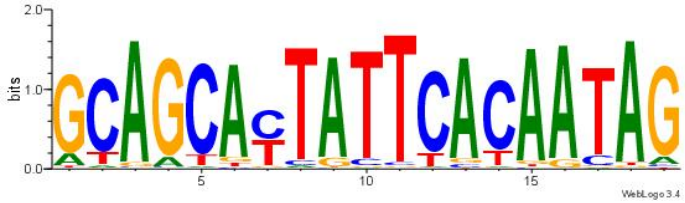

Dataset #:	1
Motif ID:	222
Motif name:	Motif 222
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0777048

Alignment:

```
CGAGATCACGCCA
CAAGATGGCGGC-
```

Original motif Consensus sequence: CGAGATCACGCCA

Reverse complement motif Consensus sequence: TGGCGTGATCTCG

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0788492

Alignment:
KKCACCTTGATCTTGGACTT
---GCCGCCATCTTG-----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

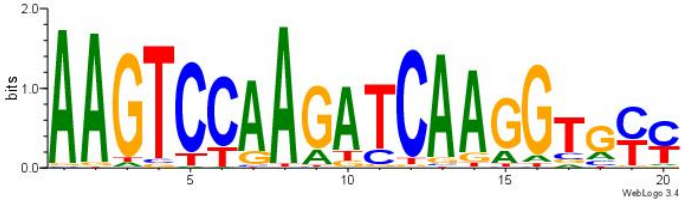

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

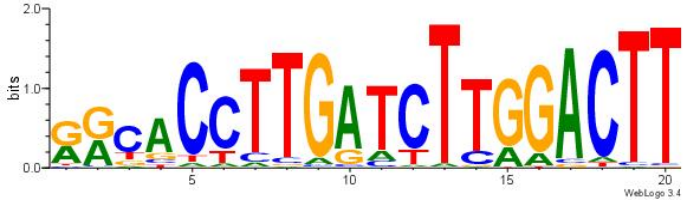

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0789469

Alignment:
CGGCTTCATTCTTGAAGTC
--GCCGCCATCTTG-----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

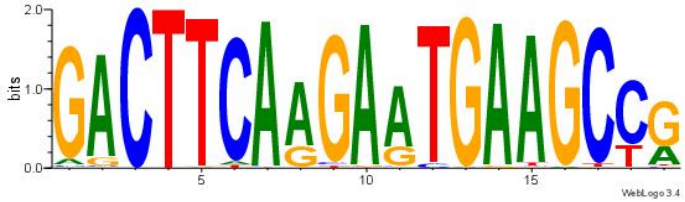

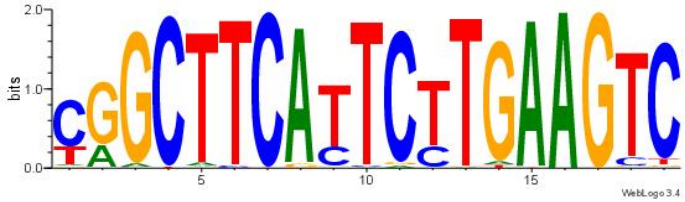

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0797618

Alignment:

```
CAACATGGATGRARCTGGAG
CAAGATGGCGGC--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

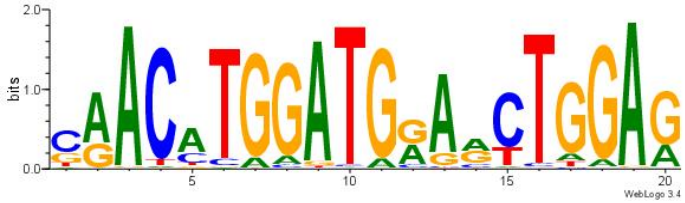

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

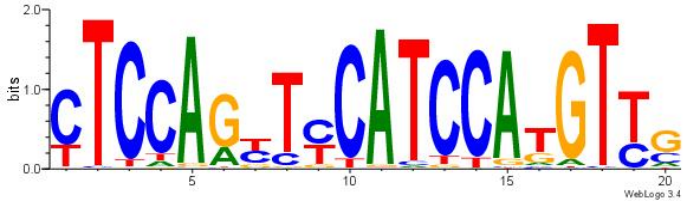

Dataset #: 1

Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.080174

Alignment:

```
GCCCTCACCATCC
GCCGCCATCTTG-
```

Original motif Consensus sequence: GCCCTCACCATCC

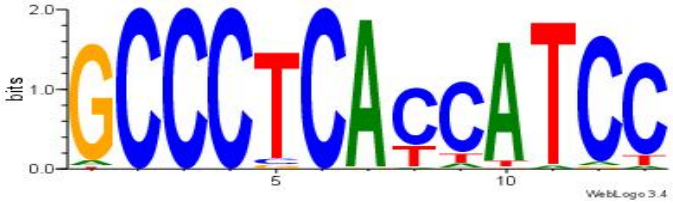

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

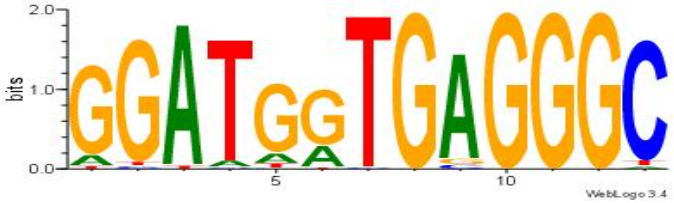

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0834059

Alignment:
GGGTGCAGGMGGGCTGAGT
-----CAAGATGGCGGC--

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

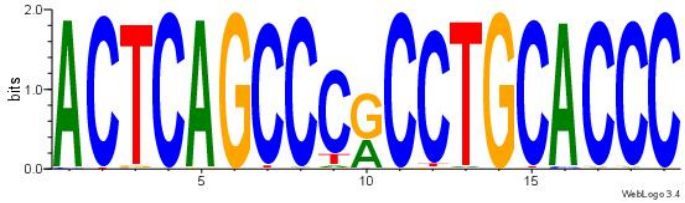

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

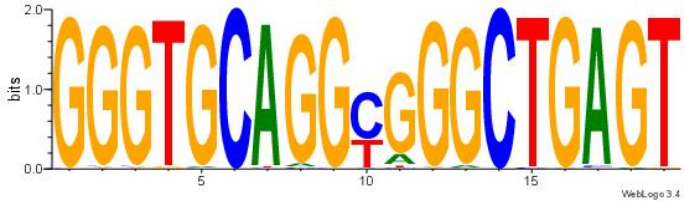

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0834663

Alignment:
ATACAATGGGGGTACAGRC
-CAAGATGGCGGC------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

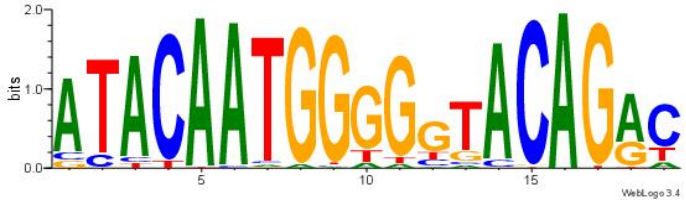

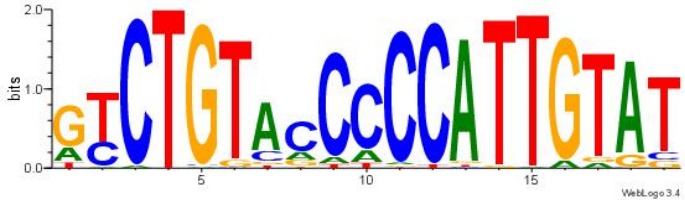

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0836518

Alignment:

```
ACCTGGAAAATCGGGTCACT
-----CAAGATGGCGGC---
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

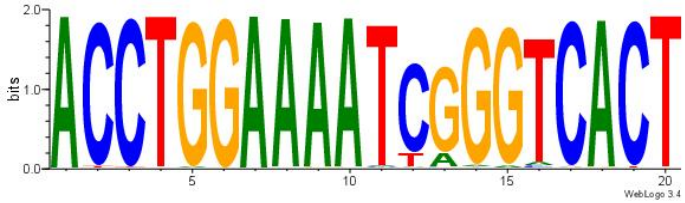

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

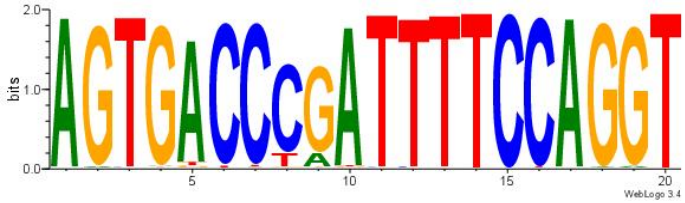

Dataset #: 1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0844606

Alignment:

```
CTCCTGACCTCGTGATC
--GCCGCCATCTTG---
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

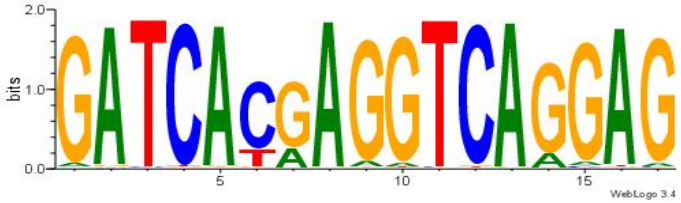

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

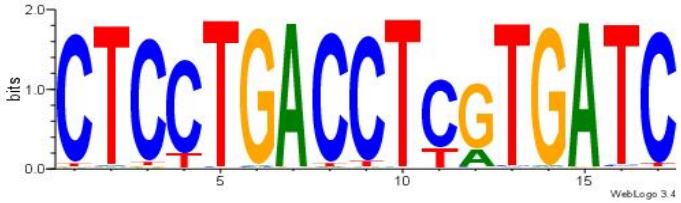

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.085678

Alignment:
GGGAGGAAGGGGACAC
--CAAGATGGCGGC--

Original motif Consensus sequence: GGGAGGAAGGGGACAC

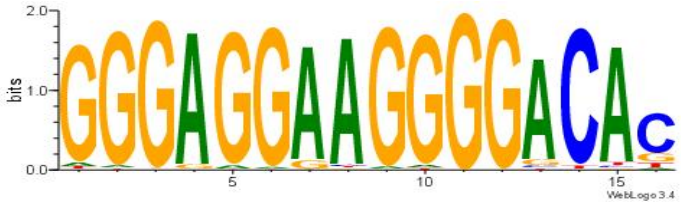

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

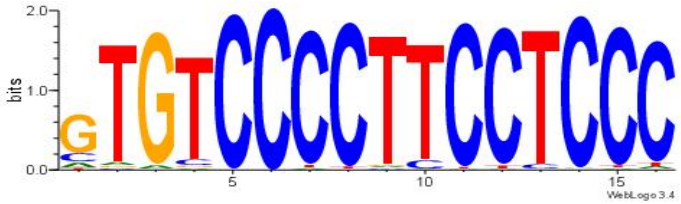

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 12
Similarity score: 0.0861765

Alignment:
MTCCTCCAGACCCCAGAATG
--------GCCGCCATCTTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

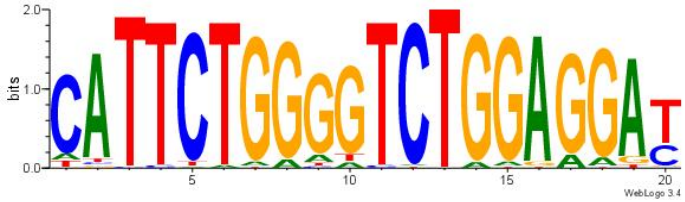

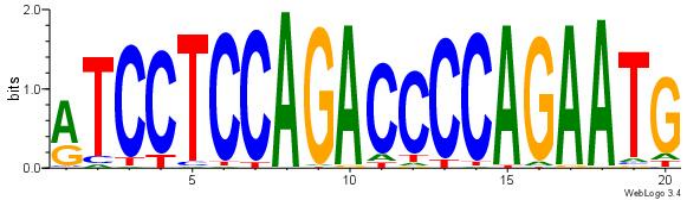

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0869509

Alignment:

```
GGGCTCCCACAGTGCAGCGG
--GCCGCCATCTTG------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

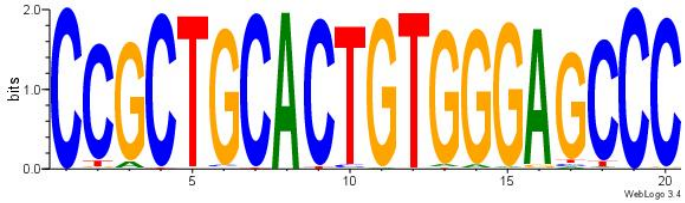

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

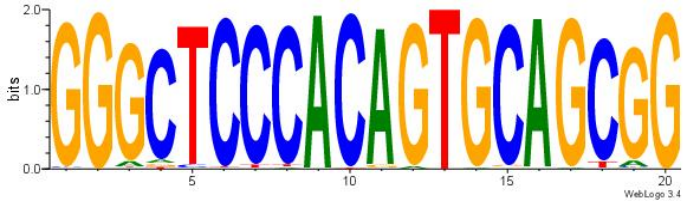

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0871118

Alignment:

```
GTCTGGMGTCTTGG
-GCCGCCATCTTG-
```

Original motif Consensus sequence: CCAAGACYCCAGAC

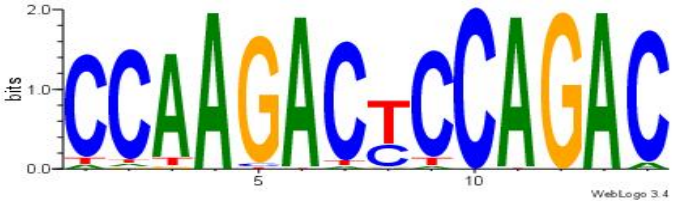

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

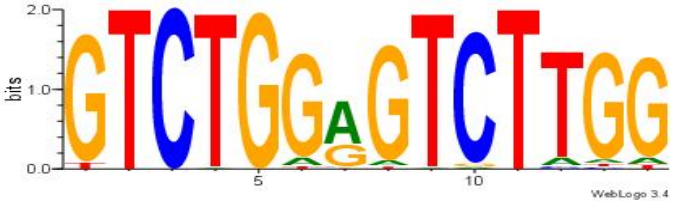

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.087295

Alignment:
AACAACASACACTGGGGCCT
-------CAAGATGGCGGC-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

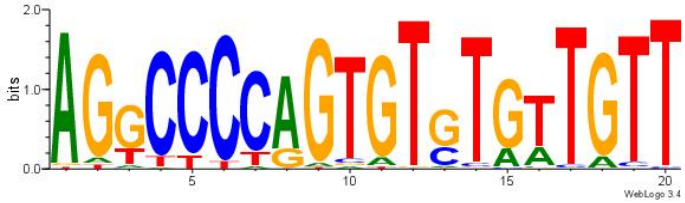

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

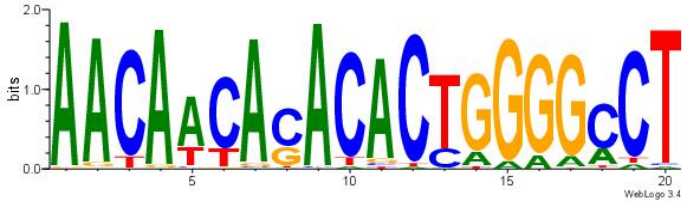

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0874738

Alignment:
TAATTTTATGTGTCAACTTG
--------GCCGCCATCTTG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

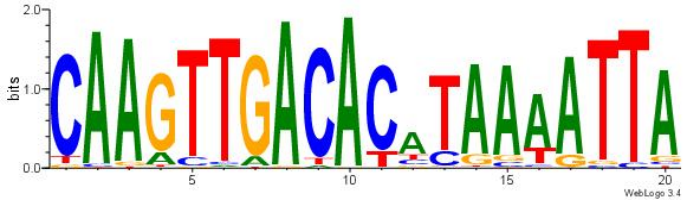

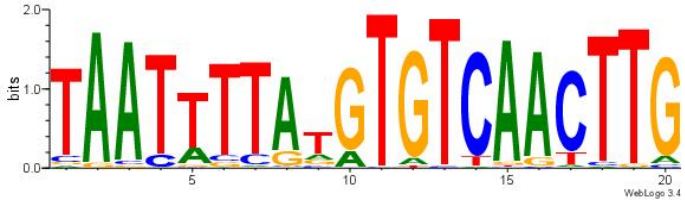

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0875096

Alignment:

```
GACTGGCAGGCAGCTCCACC
---GCCGCCATCTTG-----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

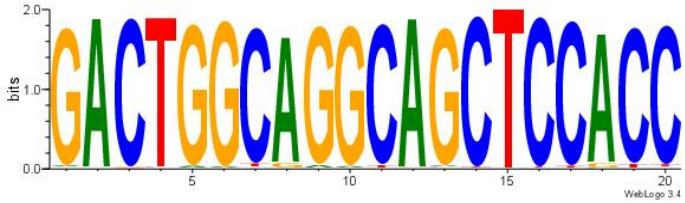

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

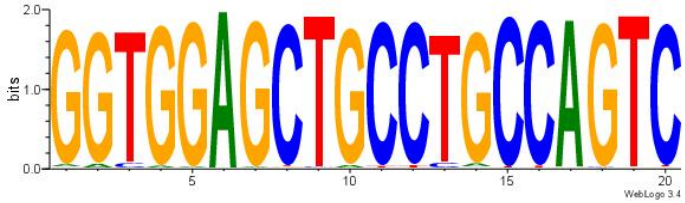

Dataset #:	1

Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0889243

Alignment:

```
GGCCMGCAGGGCKGGC
---CAAGATGGCGGC-
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

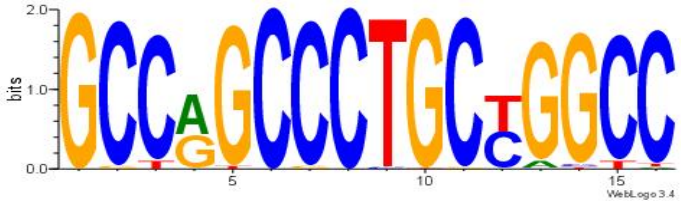

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

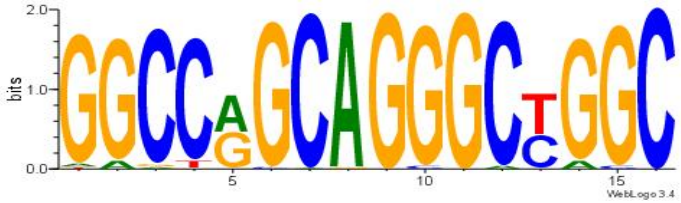

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0893453

Alignment:
AGATGCCAGCCAGAGCTCT
-GCCGCCATCTTG------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

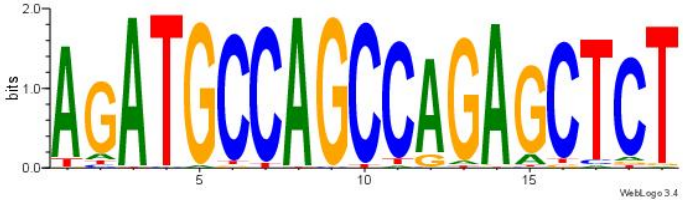

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

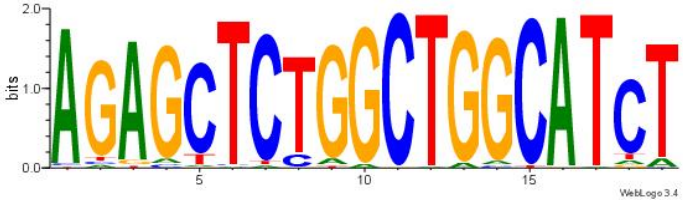

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0894423

Alignment:
TCCCTCCCGGACGGGGYGGC
--------CAAGATGGCGGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

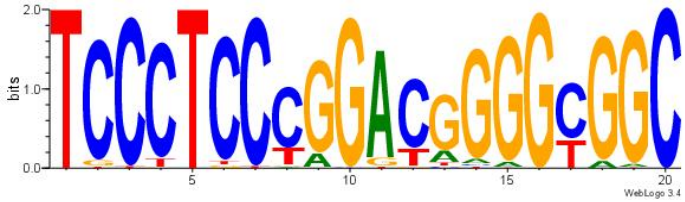

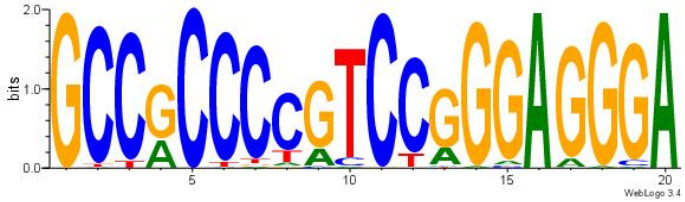

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0899088

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---CAAGATGGCGGC-----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

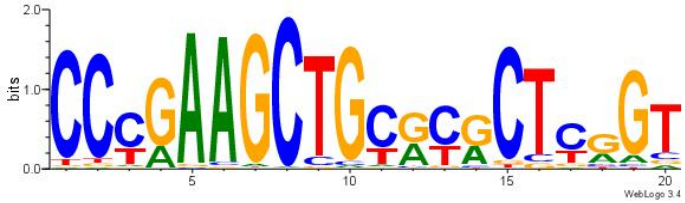

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

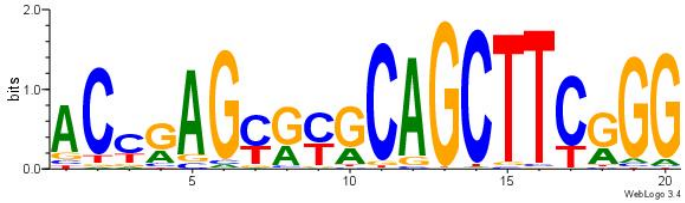

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0907134

Alignment:

```
TCCAAATGGGAGAAATTGGC
-CAAGATGGCGGC-------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

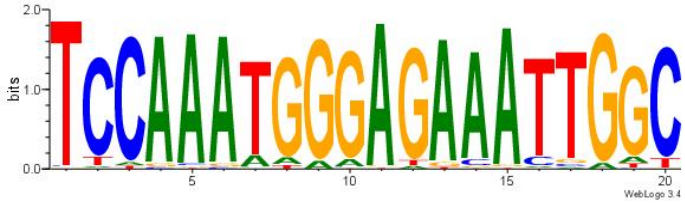

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

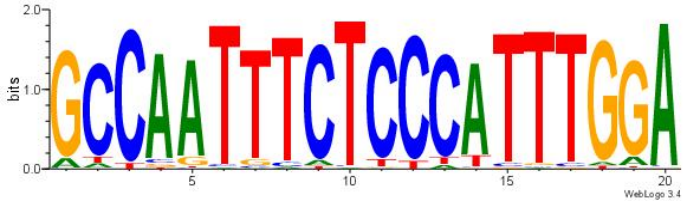

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0908034

Alignment:
ACAGCTGGCACC
CAAGATGGCGGC

Original motif Consensus sequence: ACAGCTGGCACC

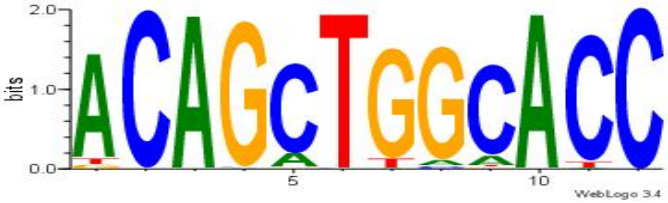

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

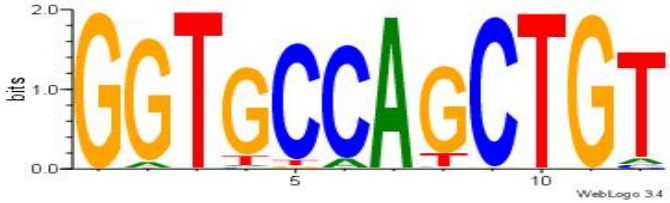

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 12
Similarity score: 0.091905

Alignment:
TAGATAATAGCTCCAGCTTT
--------GCCGCCATCTTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

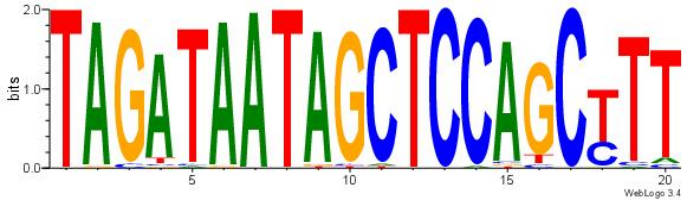

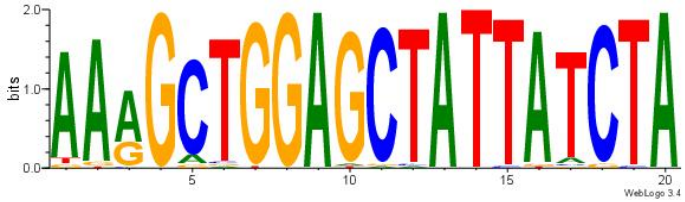

Dataset #:	1
Motif ID:	251
Motif name:	Motif 251
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0920711

Alignment:

```
CAGGCTGGTCTCG
CAAGATGGCGGC-
```

Original motif Consensus sequence: CAGGCTGGTCTCG

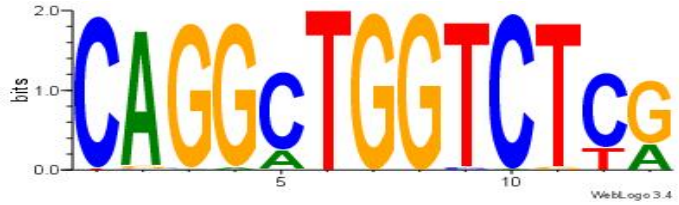

Reverse complement motif Consensus sequence: CGAGACCAGCCTG

Dataset #:	1
Motif ID:	195

Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0934117

Alignment:

```
TAAAAGACTACAWATTGGGT
-----GCCGCCATCTTG---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

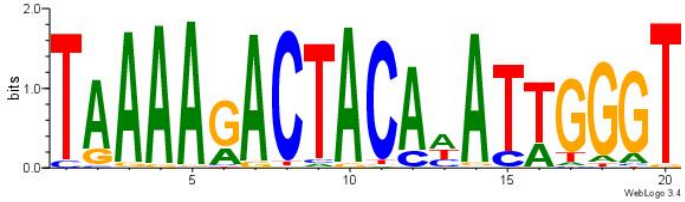

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

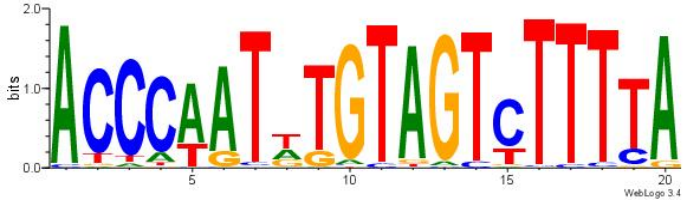

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0934154

Alignment:
CTTGCGCTTCCCRRGTGA
-GCCGCCATCTTG-----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

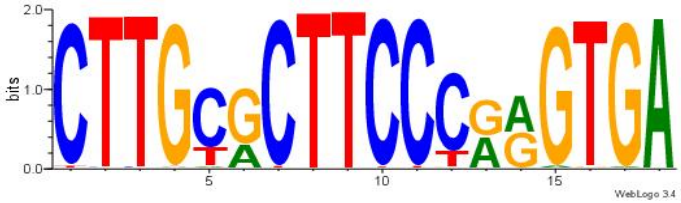

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

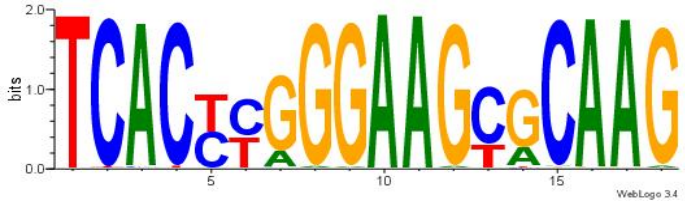

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0940583

Alignment:
CCCYAATACTGCGCTTTTC
----CAAGATGGCGGC---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence:
CCCYAATACTGCGCTTTTC

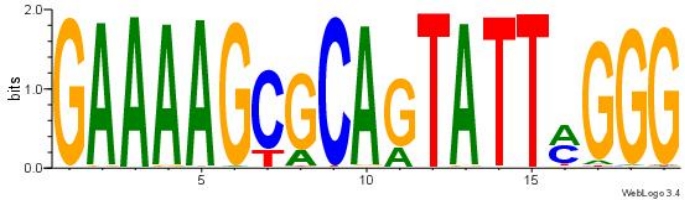

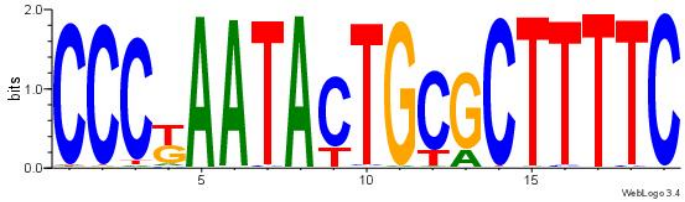

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.094123

Alignment:

```
TTMGTCCCAGAGGGGCACC
------CAAGATGGCGGC-
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

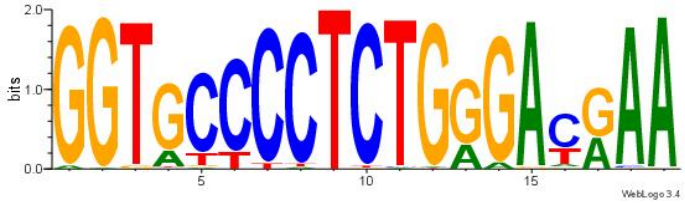

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

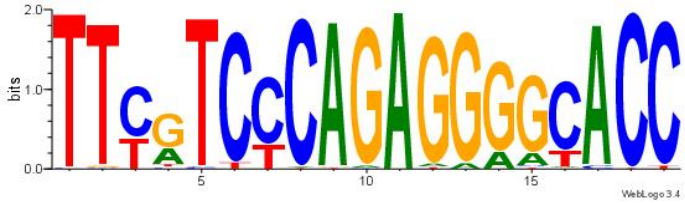

Dataset #:	1

Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0941367

Alignment:

```
TTGAGACMGKGTCT
-CAAGATGGCGGC-
```

Original motif Consensus sequence: AGACYCYGTCTCAA

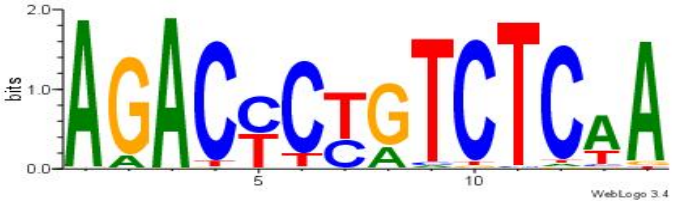

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

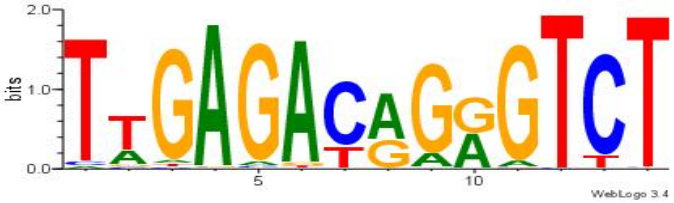

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0942866

Alignment:
CCCAAATCTCATSTTGAAT
----GCCGCCATCTTG---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

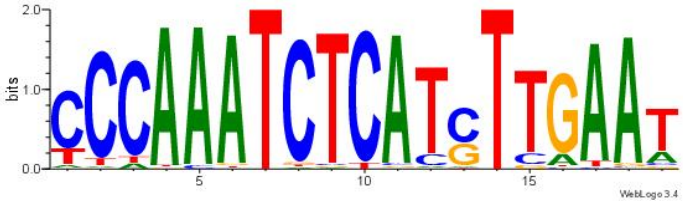

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

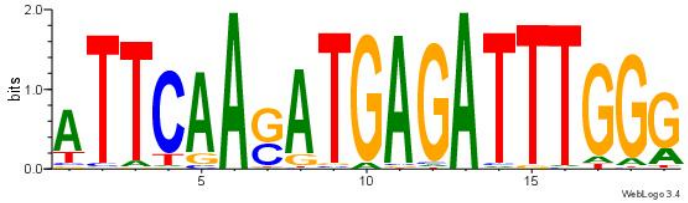

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0943526

Alignment:
GCAGCTTCACTCCTGA
---GCCGCCATCTTG-

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

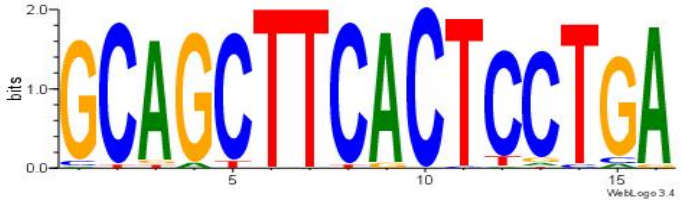

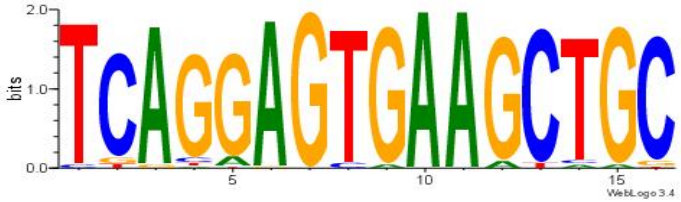

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0946681

Alignment:

```
AGTGTTTCCAAMCTGCT
---GCCGCCATCTTG--
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

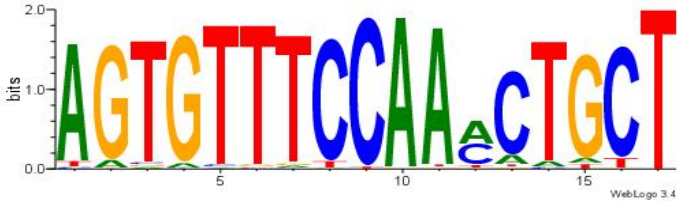

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

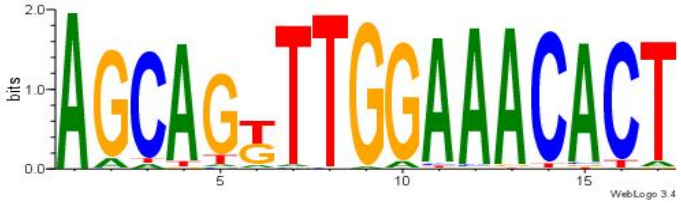

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0948051

Alignment:

```
ACATCMTCTGAAATCTAGG
------GCCGCCATCTTG-
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

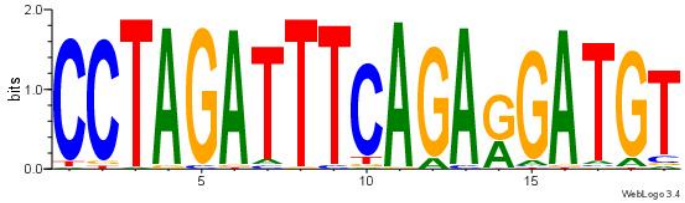

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

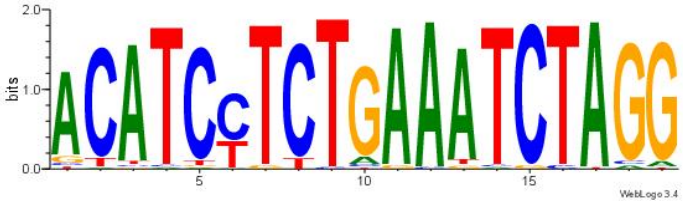

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0948688

Alignment:
AAGCTGAGGGAGCCGGCTCC
-----CAAGATGGCGGC---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

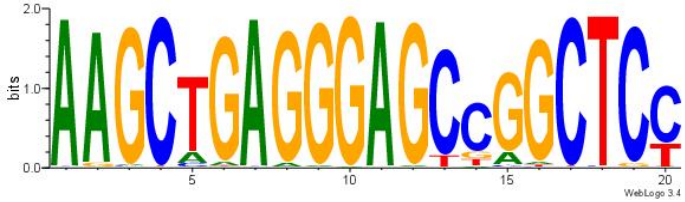

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

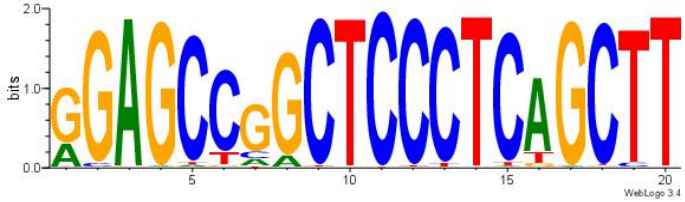

Dataset #: 1
Motif ID: 269
Motif name: Motif 269
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0951096

Alignment:
GCACATGTCGCT
CAAGATGGCGGC

Original motif Consensus sequence: AGCGACATGTGC

Reverse complement motif Consensus sequence: GCACATGTCGCT

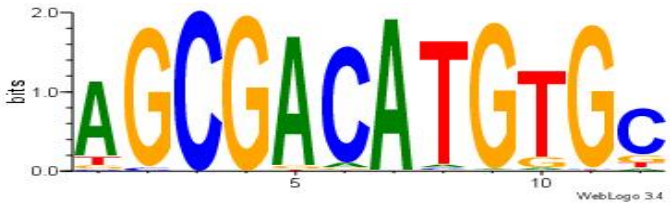

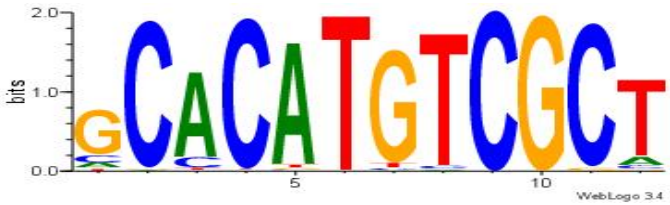

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0953261

Alignment:

```
CGCCCCGTCTGGGAAGTG
GCCGCCATCTTG------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

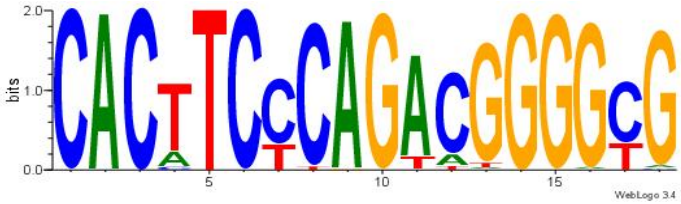

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

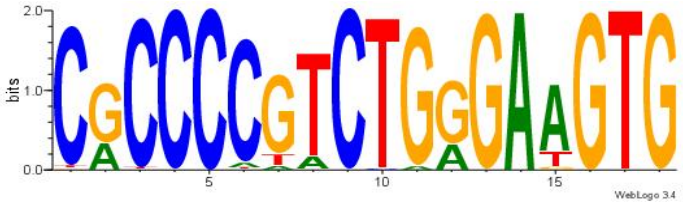

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0958671

Alignment:

```
AAGCTCGAACTGGGTGGAGC
------CAAGATGGCGGC--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

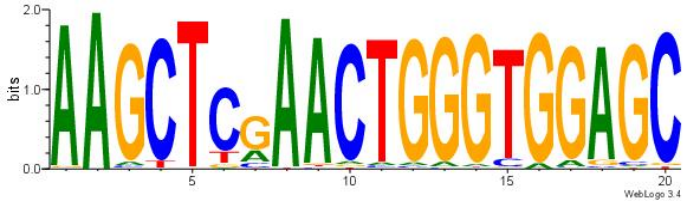

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

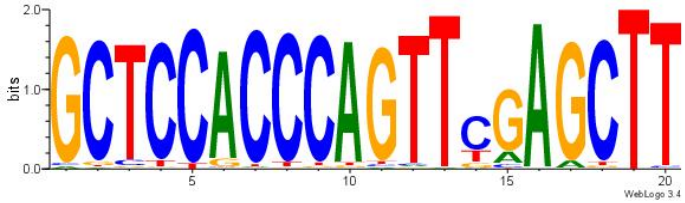

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12

Similarity score: 0.0960064

Alignment:
CCTGCCATTGCYSAGGCTTG
GCCGCCATCTTG--------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

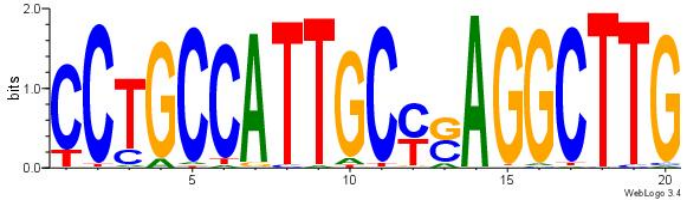

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

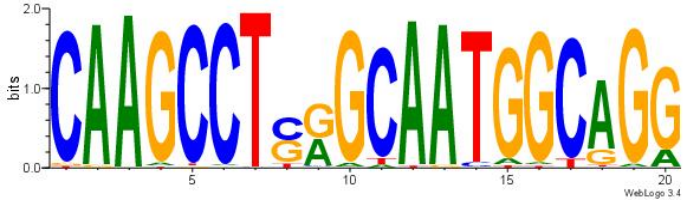

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0961518

Alignment:
GAAATTGACTTCCTCCT
CAAGATGGCGGC-----

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

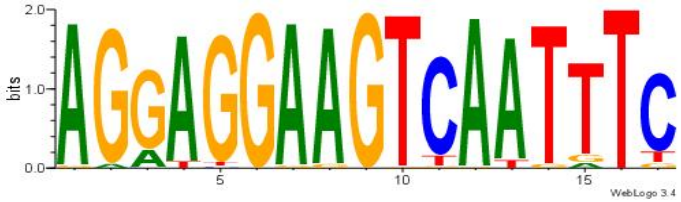

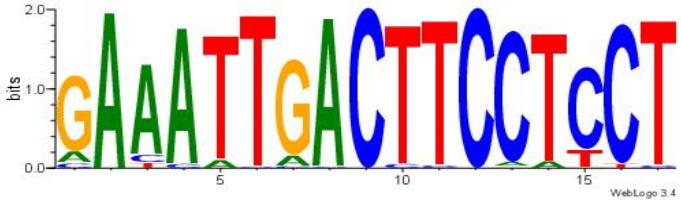

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0961871

Alignment:

```
TYTGTCMTTTTGTGACTGGC
GCCGCCATCTTG--------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

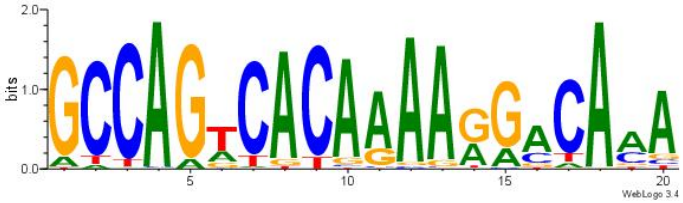

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

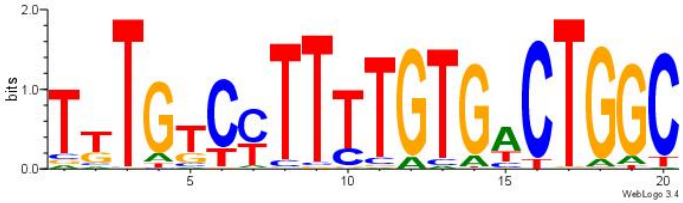

Dataset #: 1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0963813

Alignment:

```
GACATGAGCTGGCGCTTG
----CAAGATGGCGGC--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

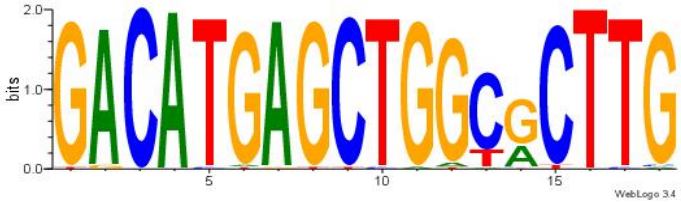

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

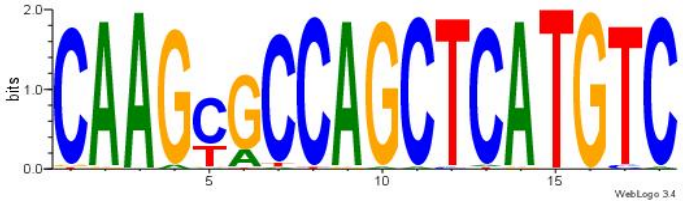

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0966467

Alignment:
GAGGAGGRGGAGGDGGV
--CAAGATGGCGGC---

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

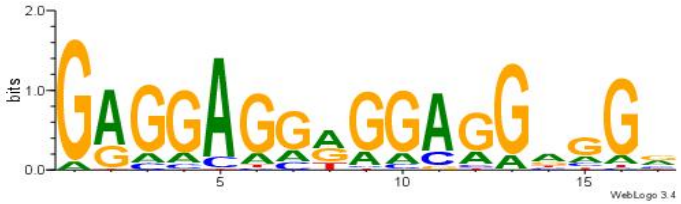

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

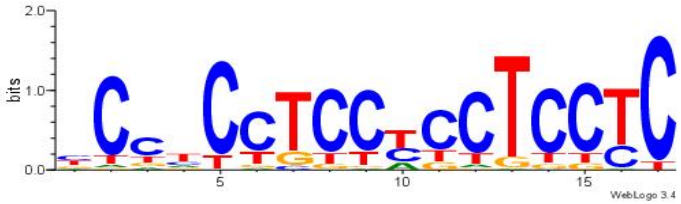

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0975938

Alignment:
AGACAGTGGGYGCAGGHCA
-CAAGATGGCGGC------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

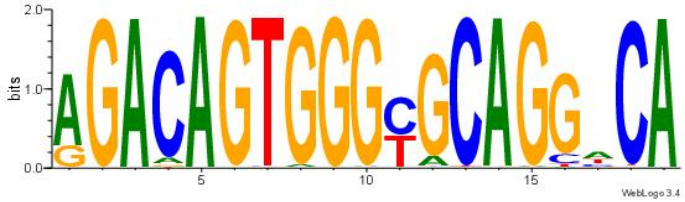

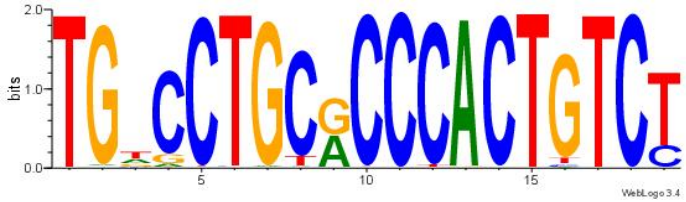

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0982483

Alignment:

```
ACATCCCAGACGATGGGCG
-----CAAGATGGCGGC--
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

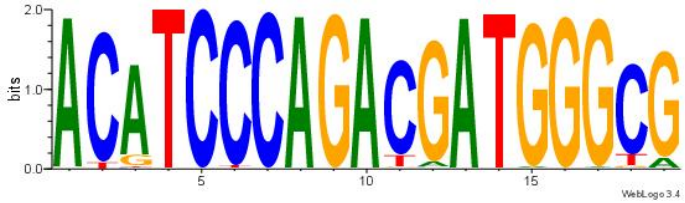

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

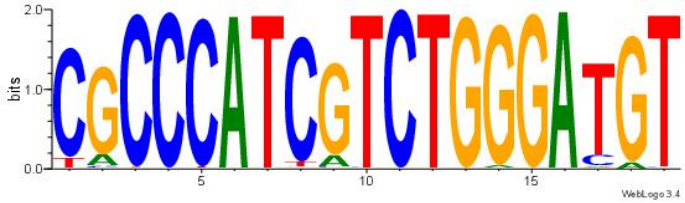

Dataset #: 1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0988295

Alignment:

```
GCCTCAGTTTCCY
-GCCGCCATCTTG
```

Original motif Consensus sequence: GCCTCAGTTTCCY

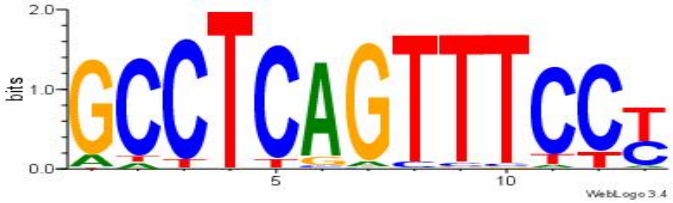

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

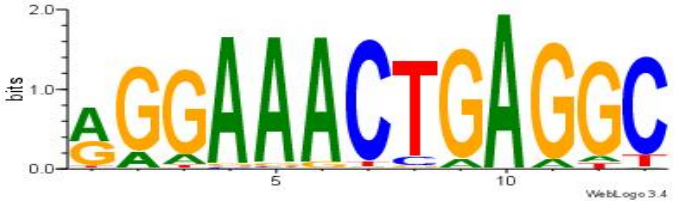

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0990351

Alignment:
ATATTGATGATCCTGACC
-----CAAGATGGCGGC-

Original motif Consensus sequence: ATATTGATGATCCTGACC

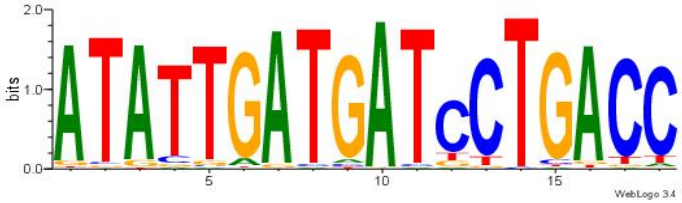

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

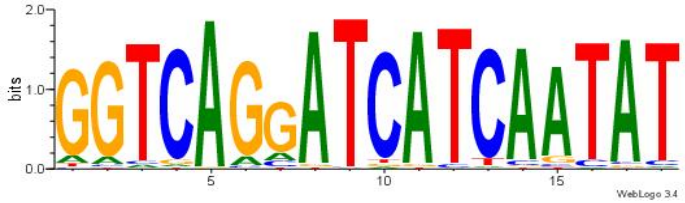

Dataset #: 1 Motif ID: 133 Motif name: Motif 133

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

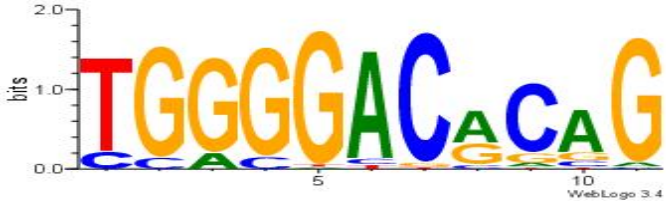

Best Matches for Motif ID 133 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number: 1
Number of overlap: 11
Similarity score: 0.0319466

Alignment:
GGCACTGCTGGGGGACCCAG
---------TGGGGACMCAG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

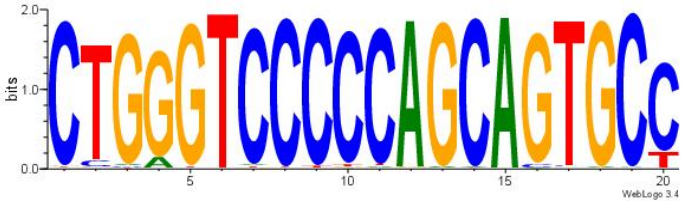

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

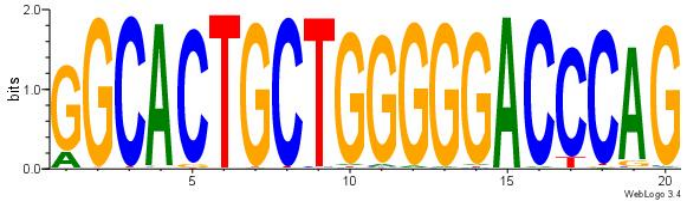

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0508347

Alignment:
GKCTGTACCCCCATTGTAT
--CTGYGTCCCCA------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

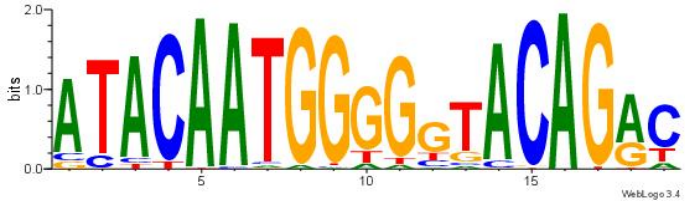

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

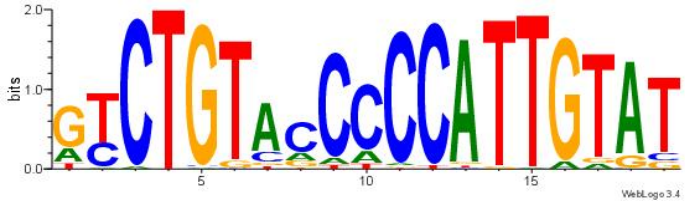

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0518197

Alignment:

```
CAGACTGCCTCCTCAA
----CTGYGTCCCCA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

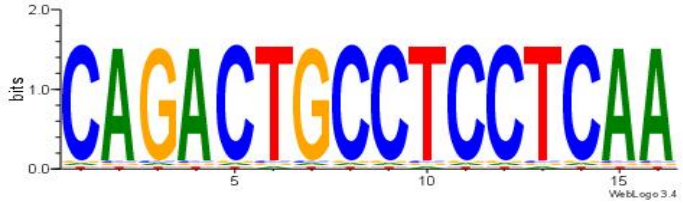

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

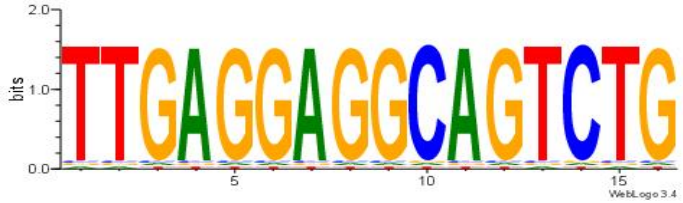

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0670325

Alignment:

```
AGACYCYGTCTCAA
---CTGYGTCCCCA
```

Original motif Consensus sequence: AGACYCYGTCTCAA

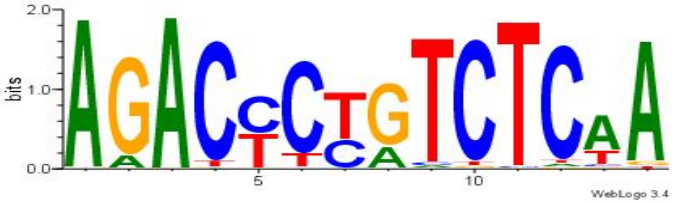

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

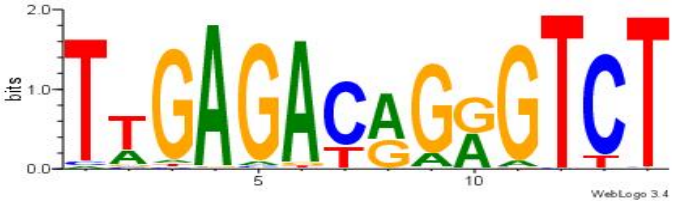

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0690455

Alignment:
CTTGCCCAAGGTCACACAGC
--------TGGGGACMCAG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

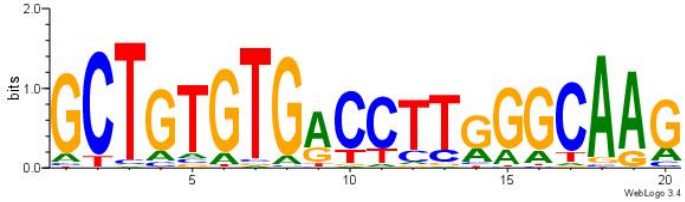

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

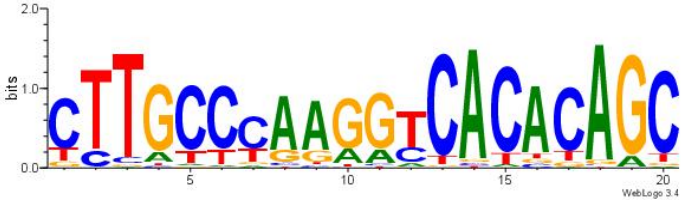

Dataset #: 1
Motif ID: 320
Motif name: Motif 320
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0716784

Alignment:
TGGGGCTCCAGATG
TGGGGACMCAG---

Original motif Consensus sequence: CATCTGGAGCCCCA

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

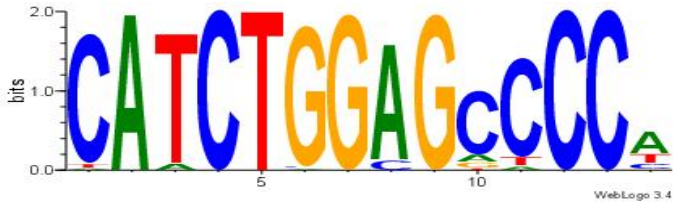

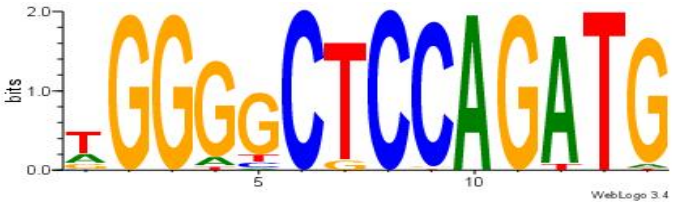

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0726445

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
--CTGYGTCCCCA-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

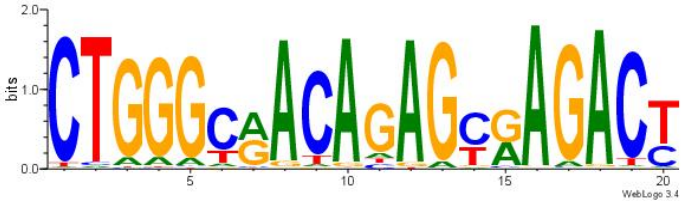

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

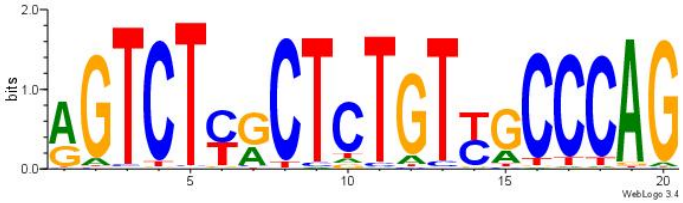

Dataset #:	1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0727125

Alignment:

```
CCTTTGACTCCATGTC
-CTGYGTCCCCA----
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

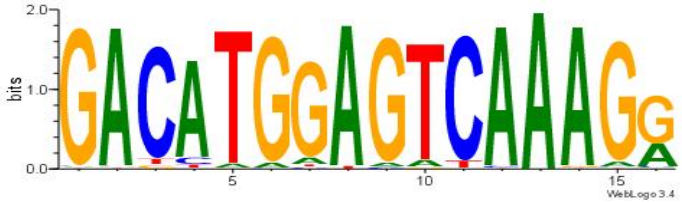

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

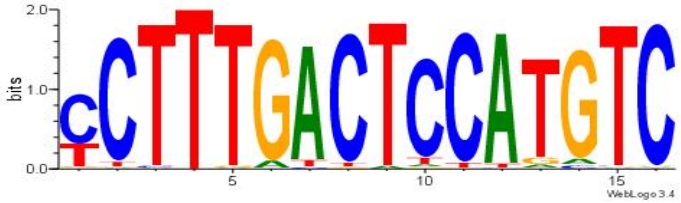

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.0730733

Alignment:
GGGGGAGACATCACACR
TGGGGACMCAG------

Original motif Consensus sequence: GGGGGAGACATCACACR

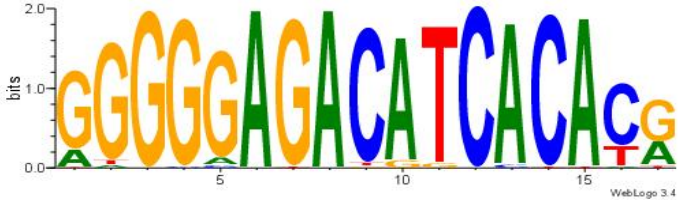

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

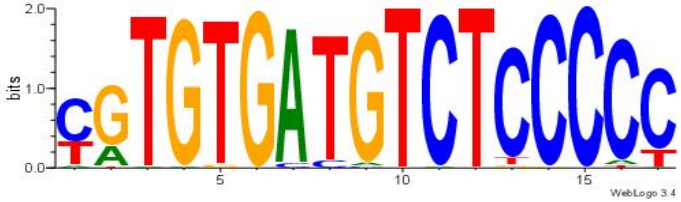

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.074292

Alignment:
CTCCTGCCTCAGCCTCCCRA
---------CTGYGTCCCCA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

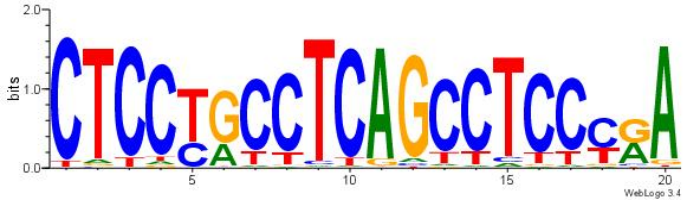

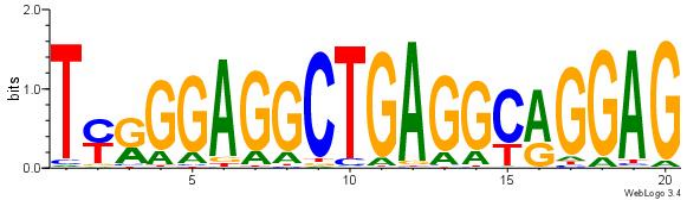

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0748959

Alignment:

```
GCCTCTCCCTCCACACCTCC
----CTGYGTCCCCA-----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

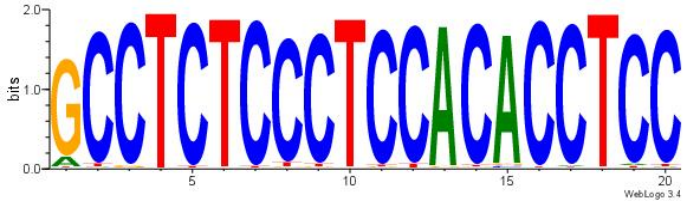

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

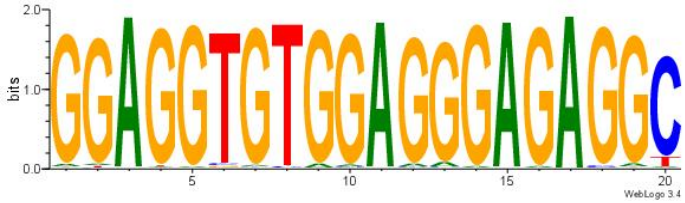

Dataset #:	1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0763921

Alignment:

```
BCVTCTGTCACCCC
-CTGYGTCCCCA--
```

Original motif Consensus sequence: GGGGTGACAGABGB

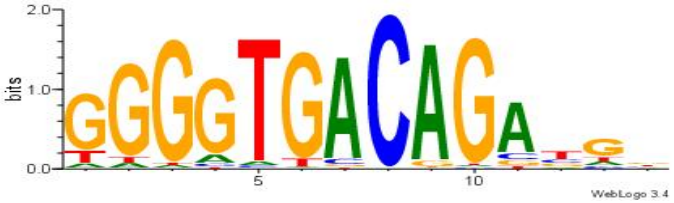

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

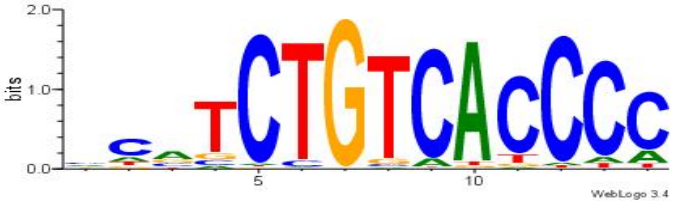

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0784503

Alignment:
GCTGGGATTACAGG
-TGGGGACMCAG--

Original motif Consensus sequence: GCTGGGATTACAGG

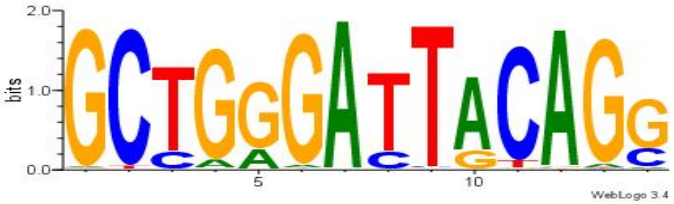

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0800979

Alignment:
CTGCGTCGCTCAC
CTGYGTCCCCA--

Original motif Consensus sequence: CTGCGTCGCTCAC

Reverse complement motif Consensus sequence: GTGAGCGACGCAG

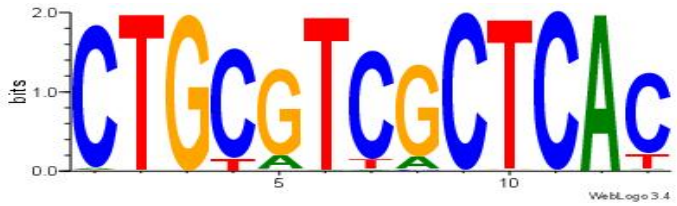

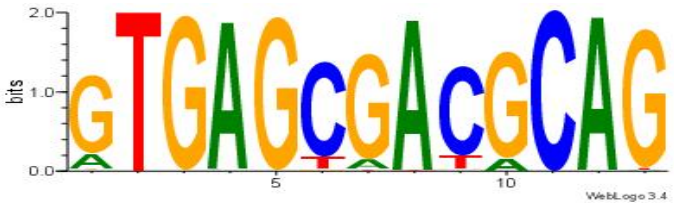

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0811145

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-------CTGYGTCCCCA--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

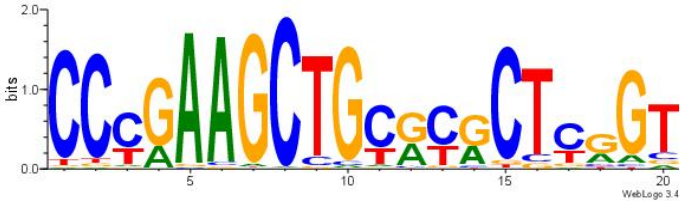

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

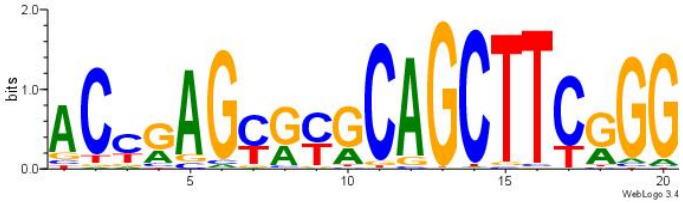

Dataset #:	1

Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0815381

Alignment:

```
CTGTCAGCCCAT
CTGYGTCCCCA-
```

Original motif Consensus sequence: CTGTCAGCCCAT

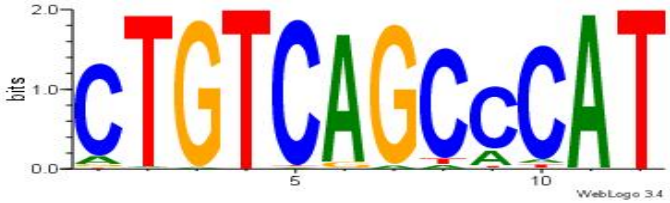

Reverse complement motif Consensus sequence: ATGGGCTGACAG

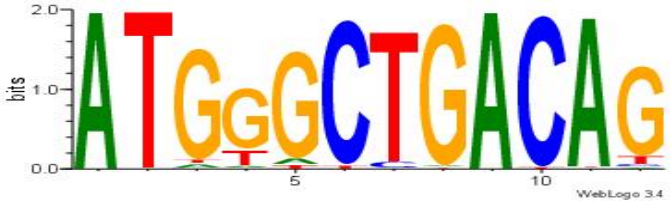

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0820696

Alignment:
CTGGGCAACAAGAG
-TGGGGACMCAG--

Original motif Consensus sequence: CTCTTGTTGCCCAG

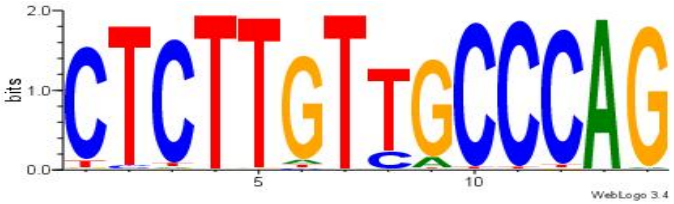

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

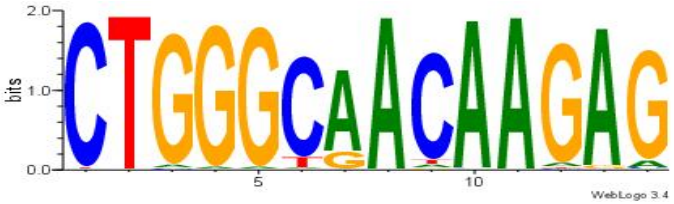

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0824198

Alignment:
TCAATGGGCTCCCAAATG
----TGGGGACMCAG---

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

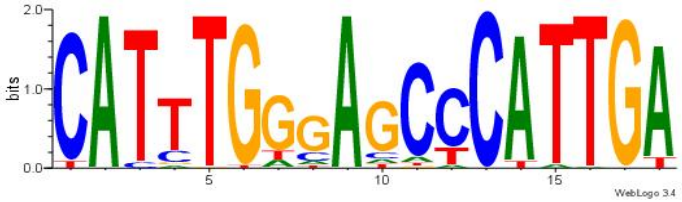

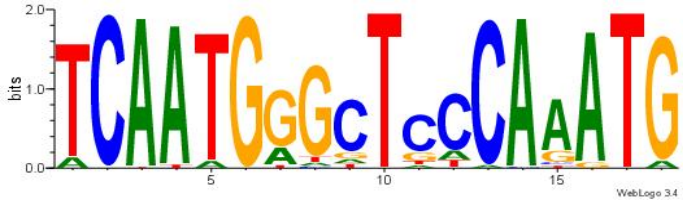

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0828817

Alignment:

```
GCACTCTGTMTCTAGCT
---CTGYGTCCCCA---
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

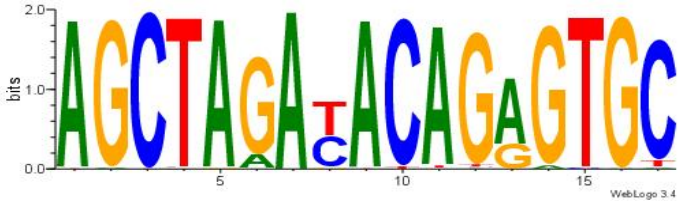

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

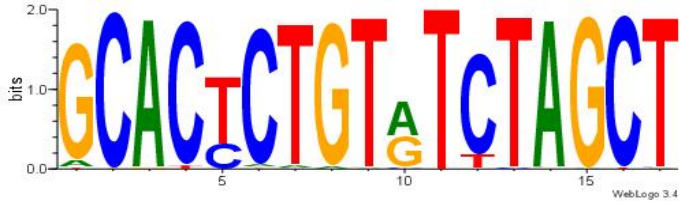

Dataset #:	1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0830464

Alignment:

```
GCGMGCGGGAACCGGGGCT
----TGGGGACMCAG----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

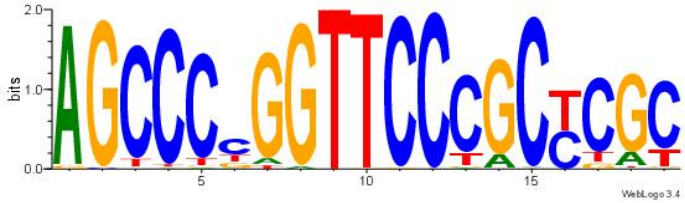

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

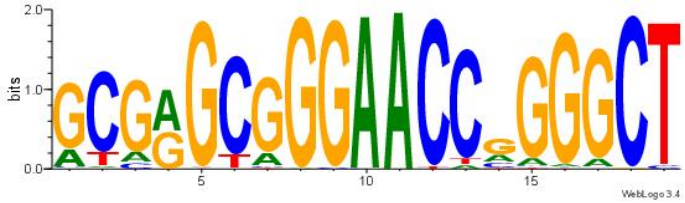

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0838751

Alignment:
TGGGCTGCCAGATG
TGGGGACMCAG---

Original motif Consensus sequence: CATCTGGCAGCCCA

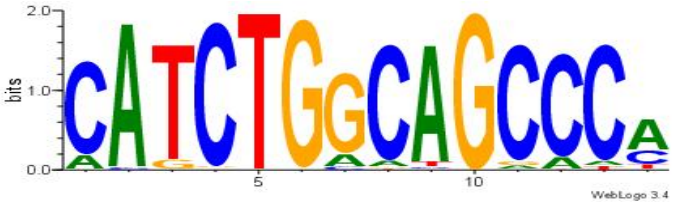

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

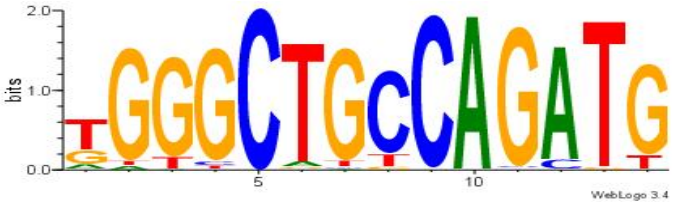

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.084427

Alignment:
GTGGGTGCAGTGCA
-TGGGGACMCAG--

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

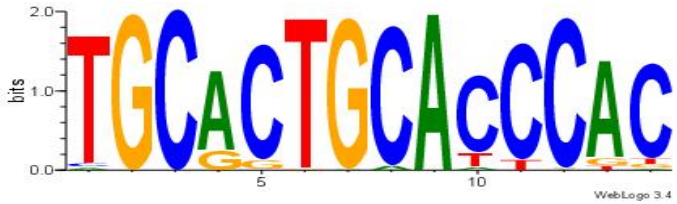

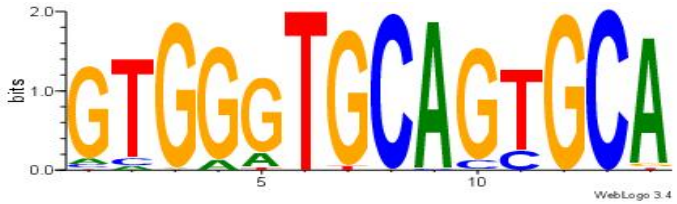

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0846401

Alignment:

```
TGTAKTCCCAGCTAC
TGGGGACMCAG----
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

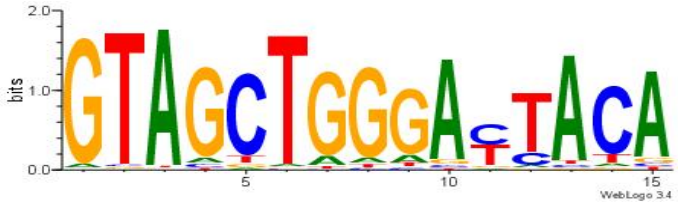

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

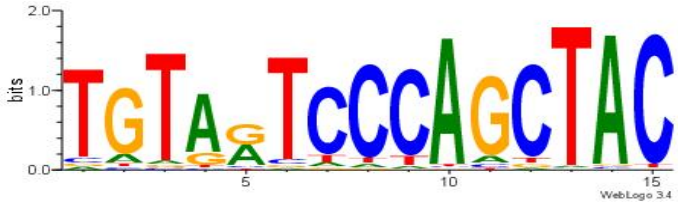

Dataset #:	1
Motif ID:	293

Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0847372

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
---CTGYGTCCCCA------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

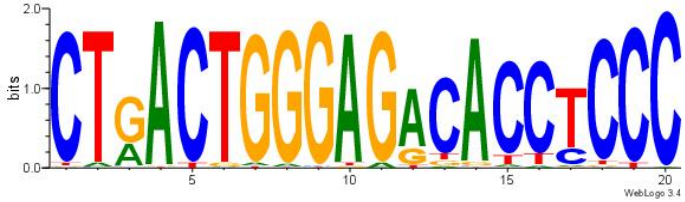

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

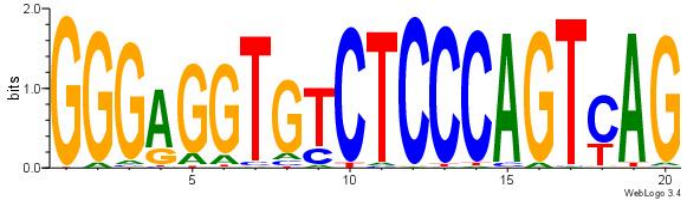

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0848963

Alignment:
GTTGGATTCCCAG
--TGGGGACMCAG

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0857867

Alignment:
GGTGGGGGGGTCAGCCCCC
---TGGGGACMCAG-----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

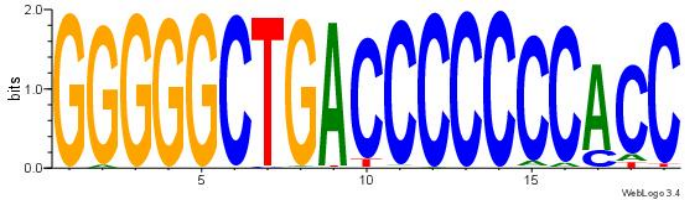

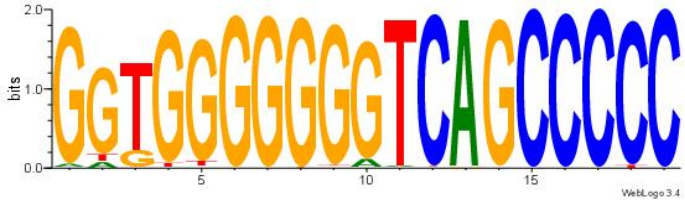

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0858897

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CTGYGTCCCCA----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

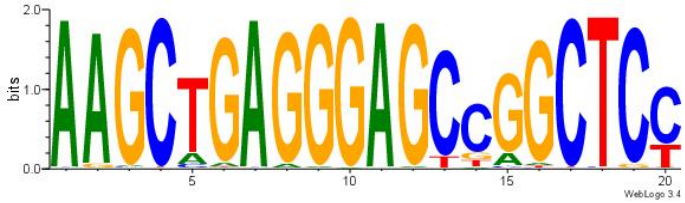

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

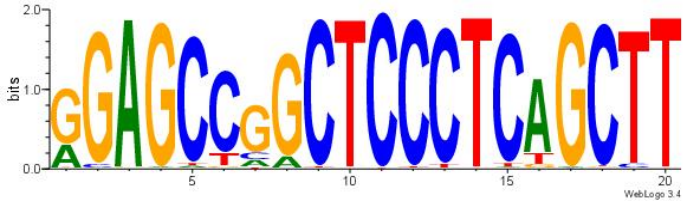

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0859755

Alignment:

```
TGGAGAACCTTTATGTCTAG
TGGGGACMCAG---------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

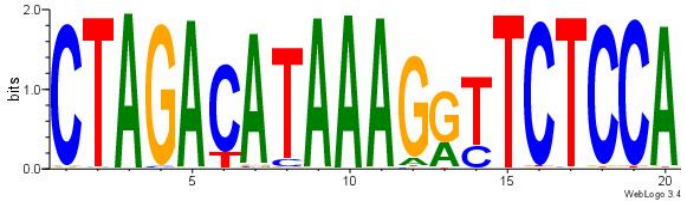

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

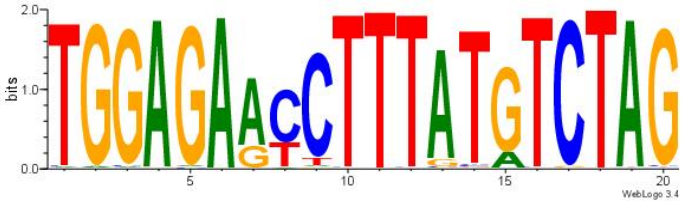

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11

Similarity score: 0.0873911

Alignment:
ATGTGGAGGTGGAAGACAGT
--------TGGGGACMCAG-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

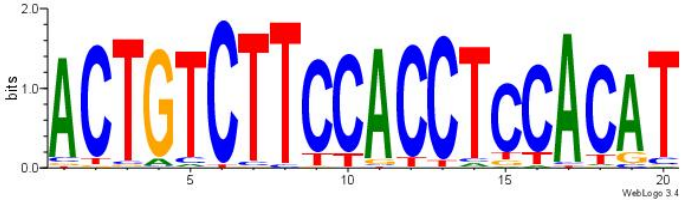

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

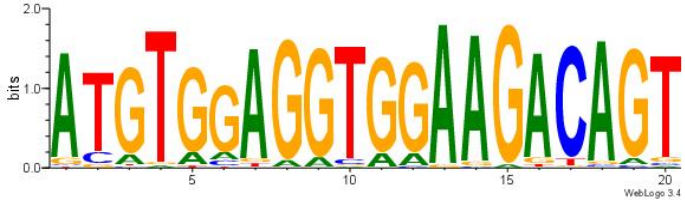

Dataset #: 1
Motif ID: 46
Motif name: Motif 46
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.087583

Alignment:
CCCCWCCCCCA
CTGYGTCCCCA

Original motif Consensus sequence: CCCCWCCCCCA

Reverse complement motif Consensus sequence: TGGGGGWGGGG

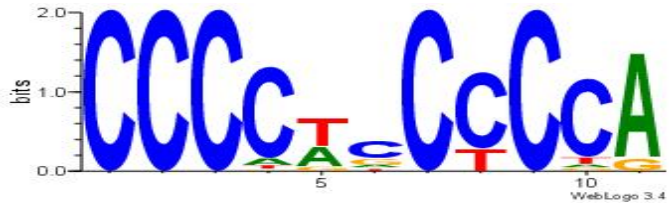

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0879693

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CTGYGTCCCCA--------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

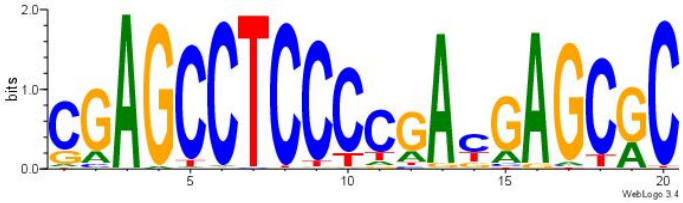

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

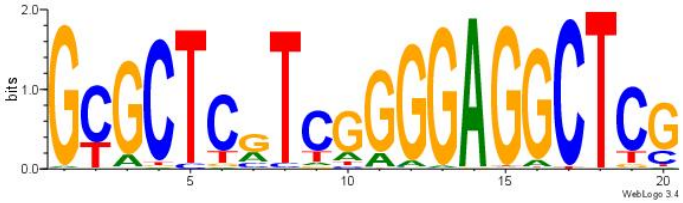

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0885217

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-CTGYGTCCCCA--------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

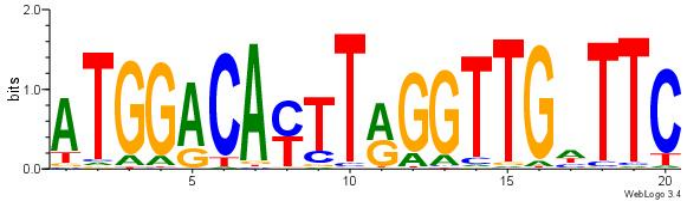

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

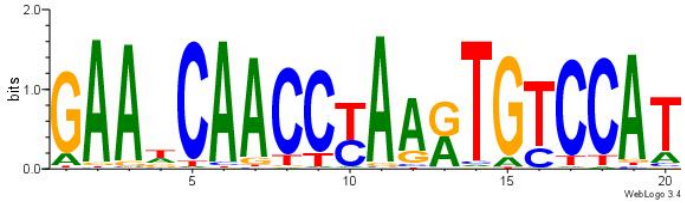

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11

Similarity score: 0.088545

Alignment:
TAATTTTATGTGTCAACTTG
-------CTGYGTCCCCA--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

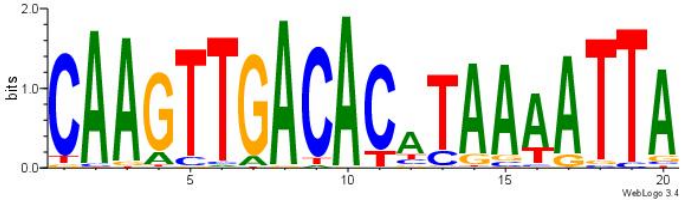

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

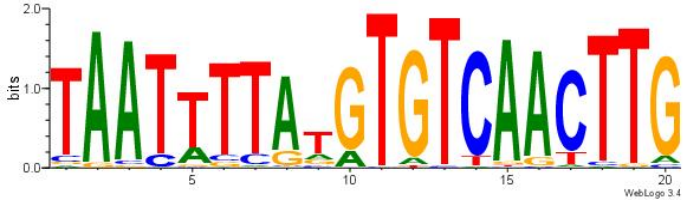

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0885846

Alignment:
AGGACTGAGGGTGCCYRGGG
-------TGGGGACMCAG--

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

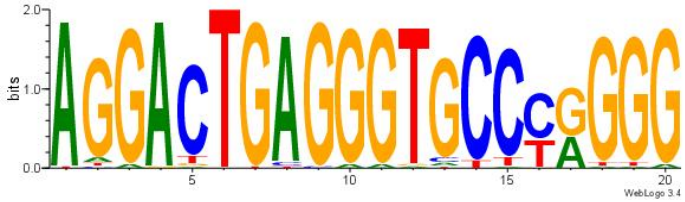

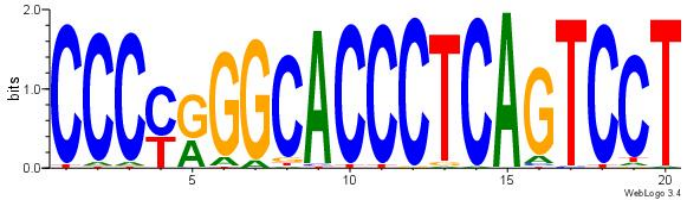

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0889849

Alignment:

```
CTGAGGACCTGAGGTCRTA
-TGGGGACMCAG-------
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

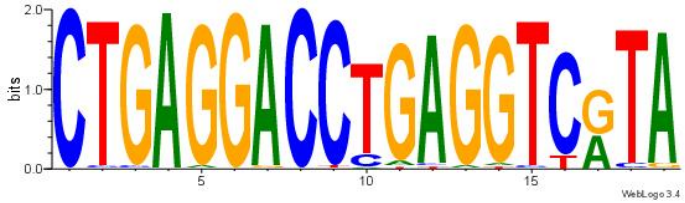

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

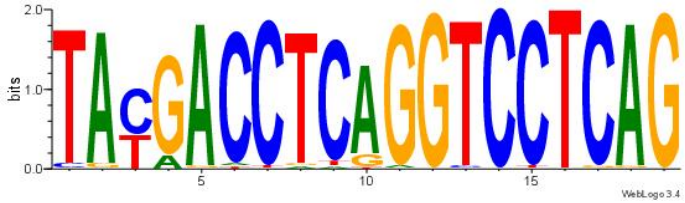

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0894788

Alignment:

```
CCAAGACYCCAGAC
CTGYGTCCCCA---
```

Original motif Consensus sequence: CCAAGACYCCAGAC

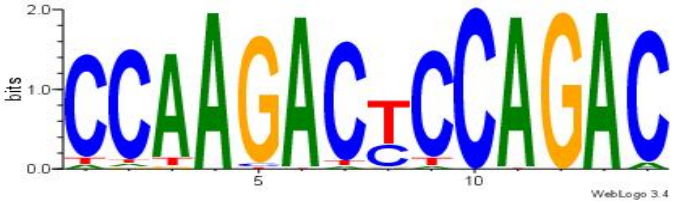

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

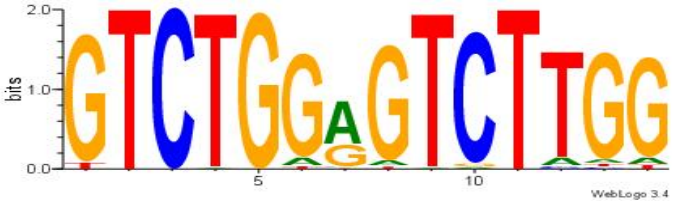

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0900898

Alignment:
AGACAGTGGGYGCAGGHCA
----TGGGGACMCAG----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

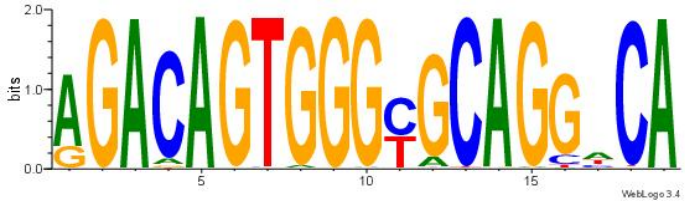

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

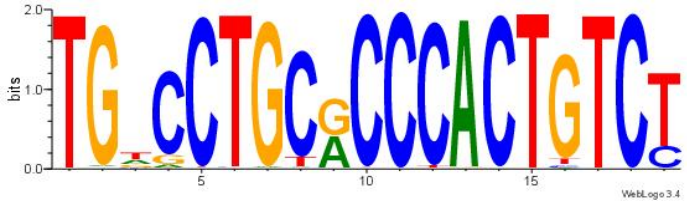

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0906579

Alignment:
CAGTCTGTGTCTTTTAATT
----CTGYGTCCCCA----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

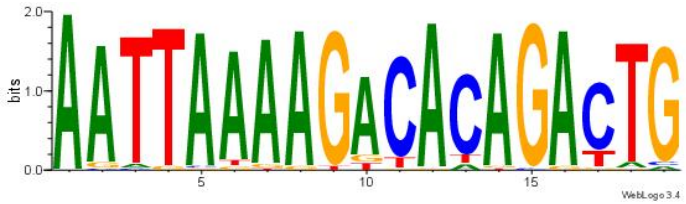

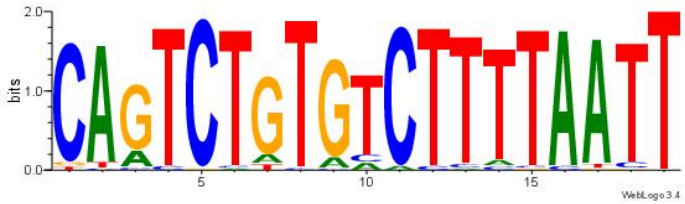

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0906742

Alignment:

```
GGGTTTCACCAT
-CTGYGTCCCCA
```

Original motif Consensus sequence: ATGGTGAAACCC

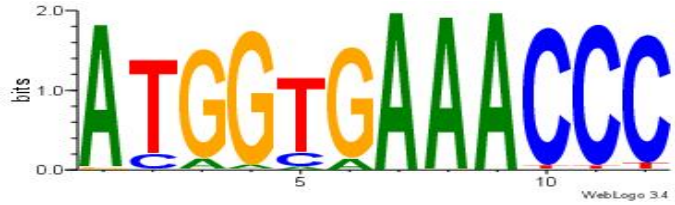

Reverse complement motif Consensus sequence: GGGTTTCACCAT

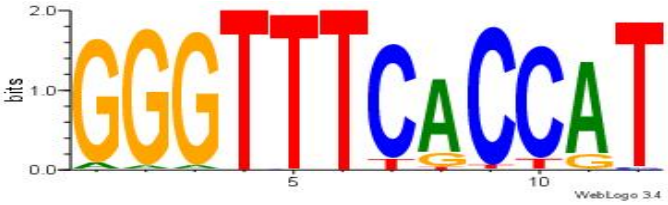

Dataset #:	1
Motif ID:	88

Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0908822

Alignment:

```
TGCAGCCCCGGT
TGGGGACMCAG-
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

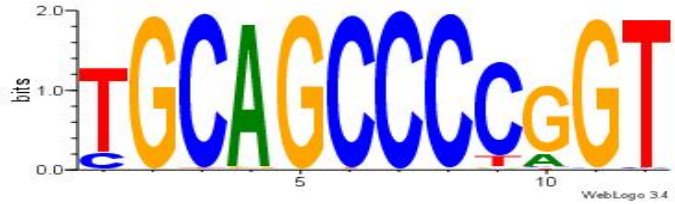

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0909236

Alignment:
CRTGAGCCACYGYRCCYGGC
-------CTGYGTCCCCA--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

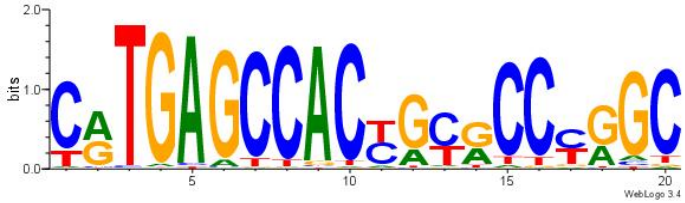

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

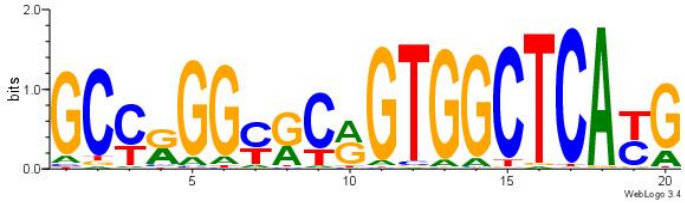

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0909813

Alignment:
CTGTTTGCCTGGGTATCA
CTGYGTCCCCA-------

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

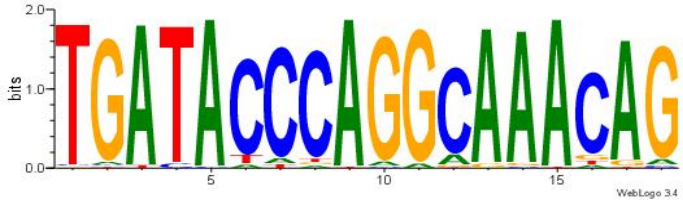

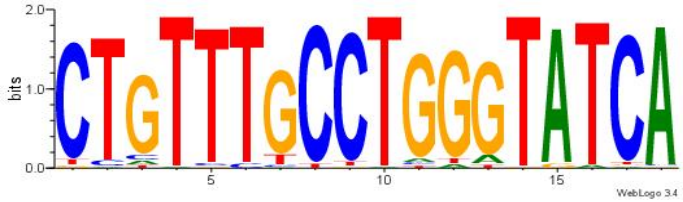

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0909863

Alignment:

```
CTCCTGCCTCAGCY
CTGYGTCCCCA---
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

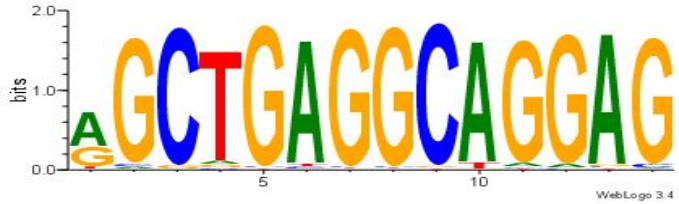

Dataset #:	1
Motif ID:	289

Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0916436

Alignment:

```
TGATGGGTGCACCAAA
---TGGGGACMCAG--
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

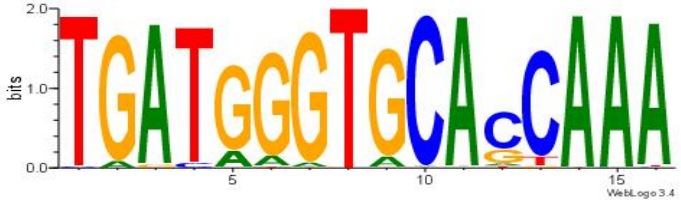

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

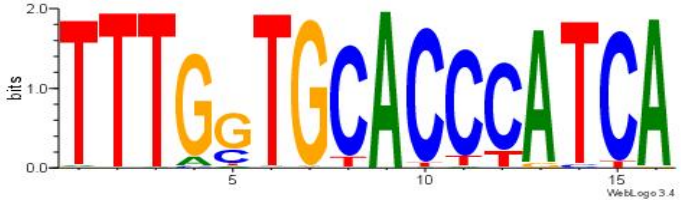

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0918018

Alignment:
GGCTGCGGAGGGTGTA
--TGGGGACMCAG---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

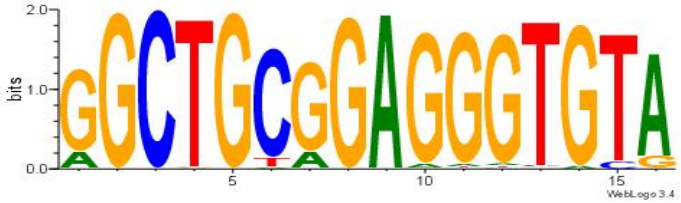

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

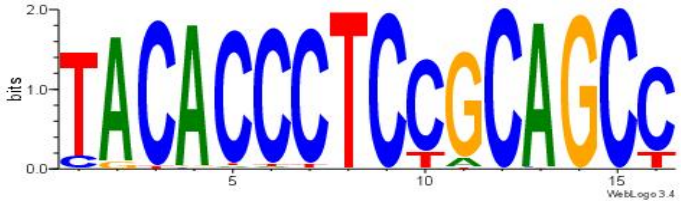

Dataset #:	1
Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0918527

Alignment:
TGTAATCCCAG
TGGGGACMCAG

Original motif Consensus sequence: CTGGGATTACA

Reverse complement motif Consensus sequence: TGTAATCCCAG

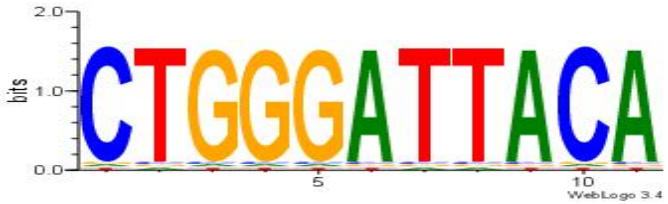

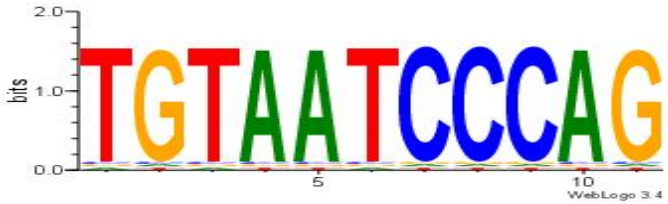

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0922643

Alignment:

```
TCTMKGCTCACTGC
--TGGGGACMCAG-
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

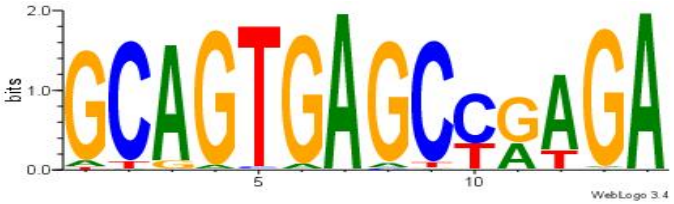

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

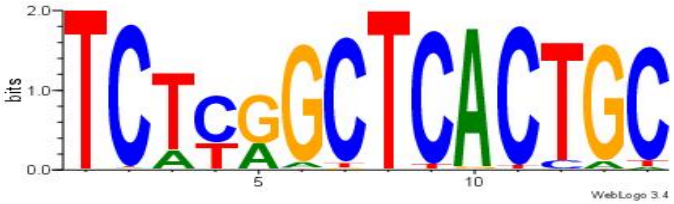

Dataset #:	1
Motif ID:	174

Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0924519

Alignment:

```
GGGGTGAVCAGAT
TGGGGACMCAG--
```

Original motif Consensus sequence: GGGGTGAVCAGAT

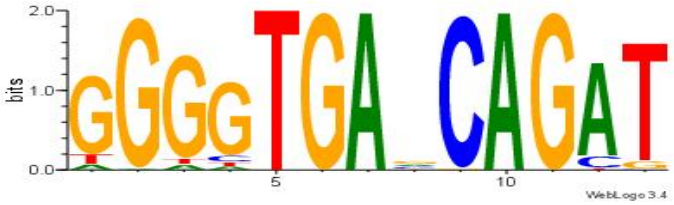

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

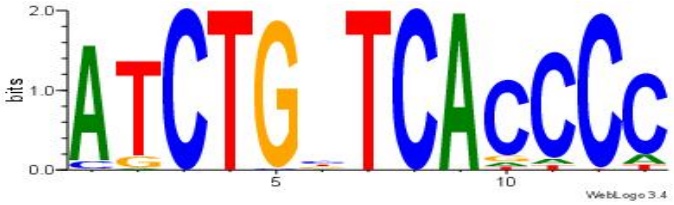

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0925004

Alignment:
ATATTGATGATCCTGACC
----TGGGGACMCAG---

Original motif Consensus sequence: ATATTGATGATCCTGACC

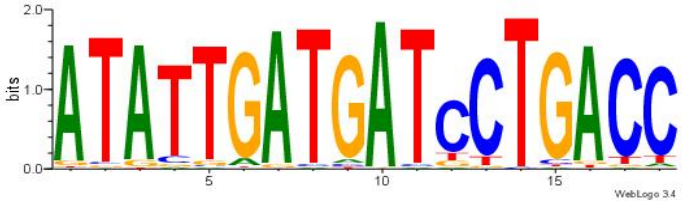

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

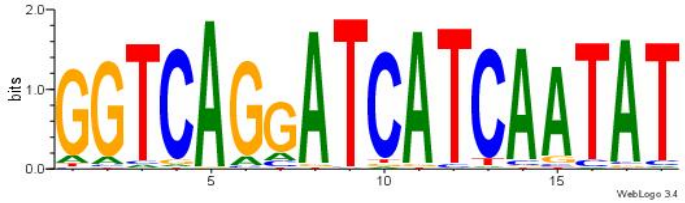

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0927019

Alignment:
TCTCTGAGCCTCAGTT
---CTGYGTCCCCA--

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

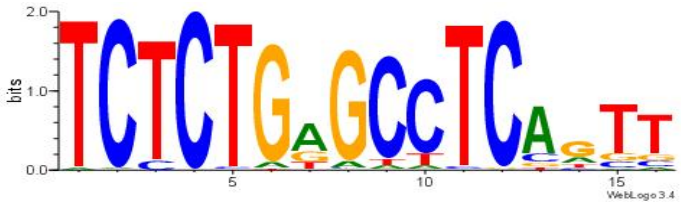

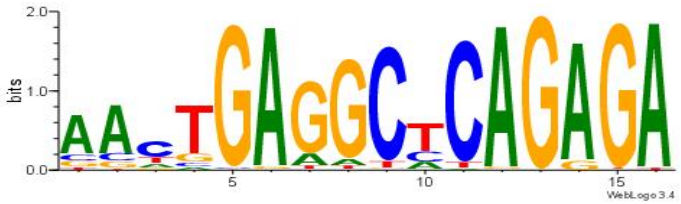

Dataset #: 1 Motif ID: 134 Motif name: Motif 134

Original motif Consensus sequence: CAAACTGCA

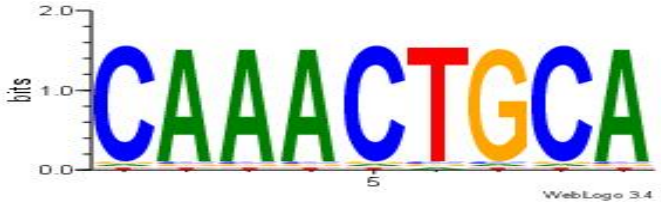

Reverse complement motif Consensus sequence: TGCAGTTTG

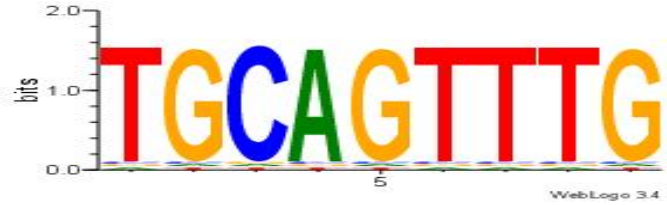

Best Matches for Motif ID 134 (Highest to Lowest)

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0

Alignment:

```
CAAACTGCAAG
CAAACTGCA--
```

Original motif Consensus sequence: CAAACTGCAAG

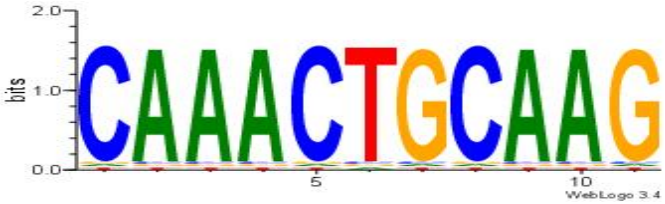

Reverse complement motif Consensus sequence: CTTGCAGTTTG

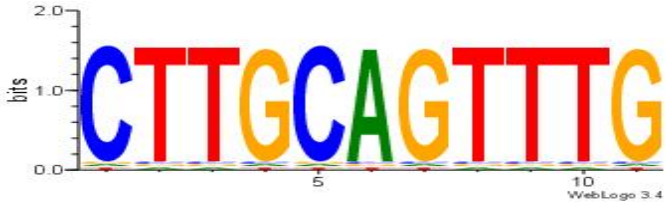

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0499634

Alignment:

```
AGTGTTTCCAAMCTGCT
--------CAAACTGCA
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

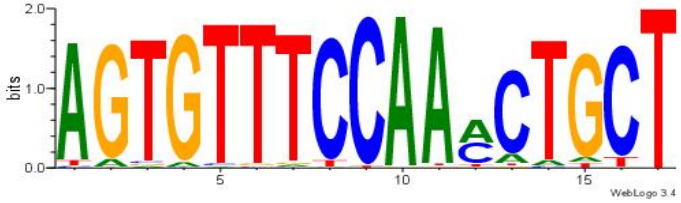

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

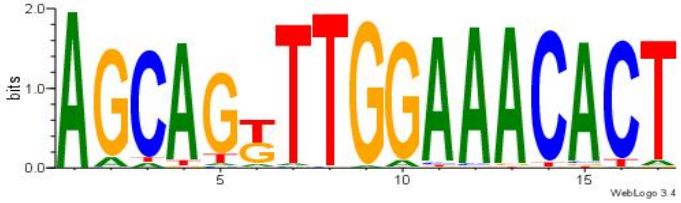

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.050505

Alignment:

```
TTGAGGAGGCAGTCTG
-------TGCAGTTTG
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

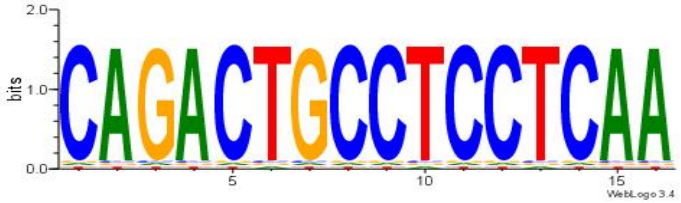

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

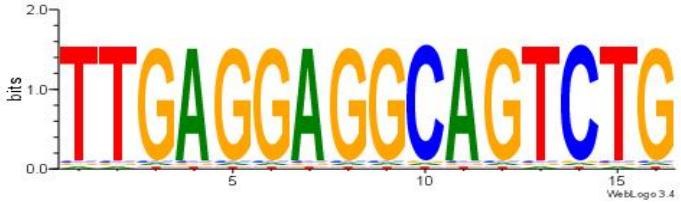

Dataset #:	1
Motif ID:	71
Motif name:	Motif 71
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 9
Similarity score: 0.050505

Alignment:
CAAAGTGCT
CAAACTGCA

Original motif Consensus sequence: AGCACTTTG

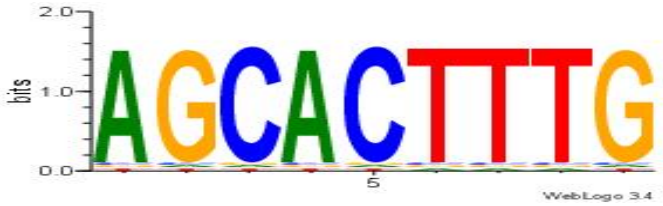

Reverse complement motif Consensus sequence: CAAAGTGCT

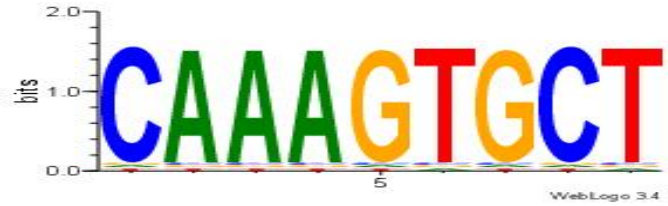

Dataset #: 1
Motif ID: 123
Motif name: Motif 123
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.050505

Alignment:
AGCAGTCTGAG
--TGCAGTTTG

Original motif Consensus sequence: AGCAGTCTGAG

Reverse complement motif Consensus sequence: CTCAGACTGCT

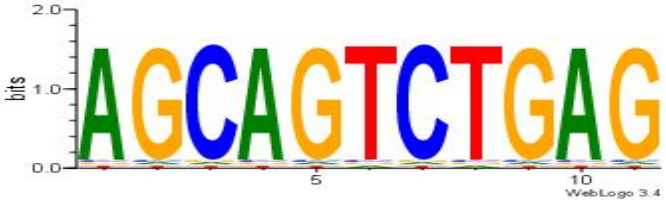

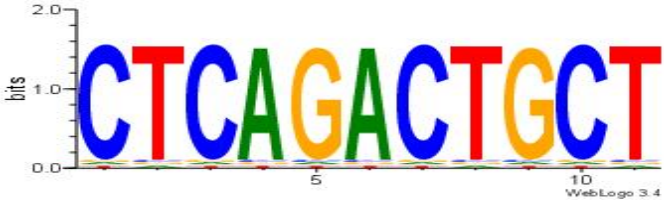

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0521614

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-----TGCAGTTTG------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

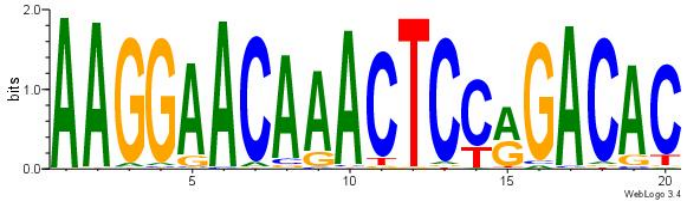

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

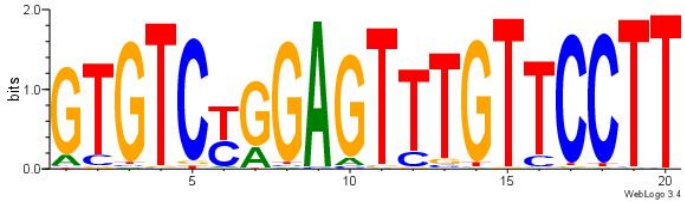

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0606198

Alignment:

```
GAAACTGCTTTGTGATGTGT
CAAACTGCA-----------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

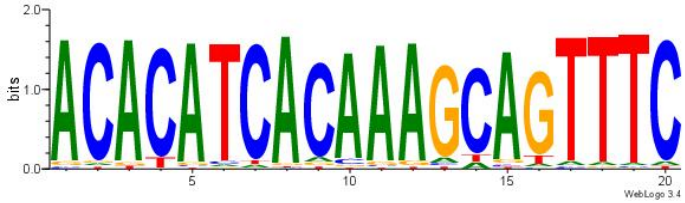

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

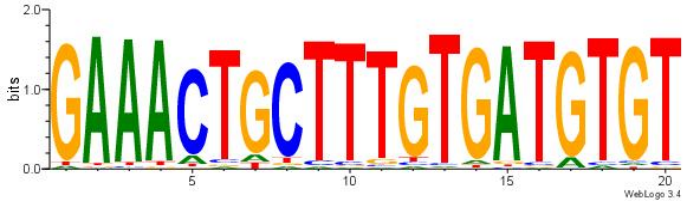

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0634619

Alignment:
GGGCTCCCACAGTGCAGCGG
-------CAAACTGCA----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

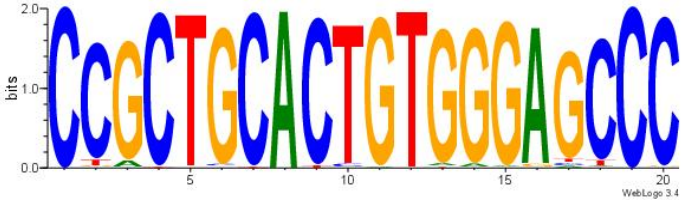

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

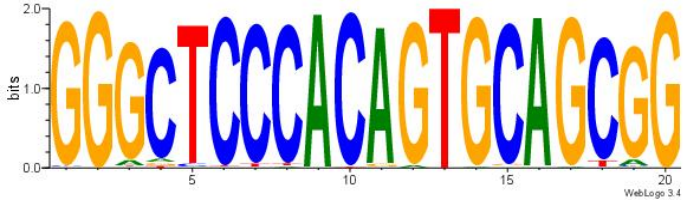

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 9
Similarity score: 0.0652896

Alignment:
GCTGCARTCTCGGCACTTT
--TGCAGTTTG--------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

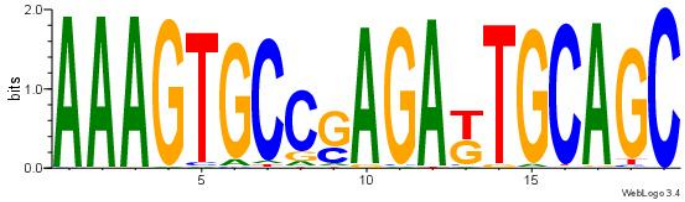

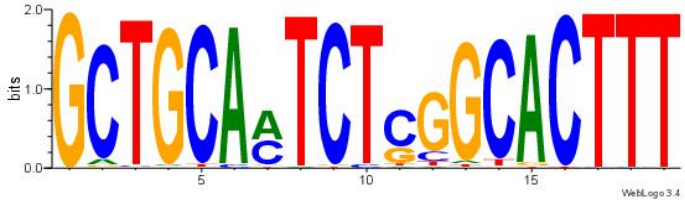

Dataset #:	1
Motif ID:	297
Motif name:	Motif 297
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0663554

Alignment:

```
ACCAATCAGCA
--CAAACTGCA
```

Original motif Consensus sequence: ACCAATCAGCA

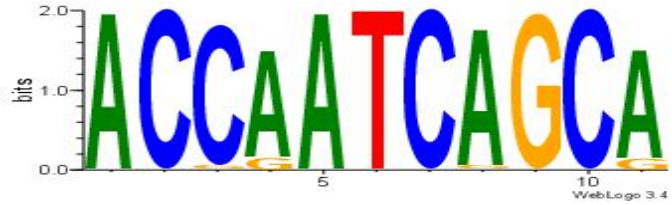

Reverse complement motif Consensus sequence: TGCTGATTGGT

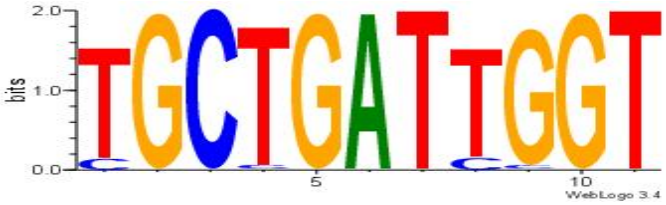

Dataset #:	1
Motif ID:	6

Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0728622

Alignment:

```
GAGSTTGCAGTGAGC
-----TGCAGTTTG-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

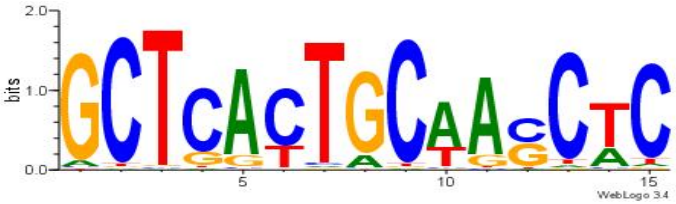

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

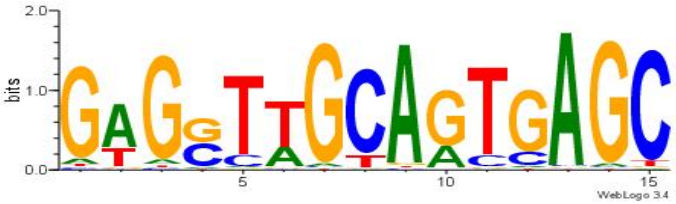

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0754152

Alignment:
CAGGTGGTKTTTGGTTACAT
----TGCAGTTTG-------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

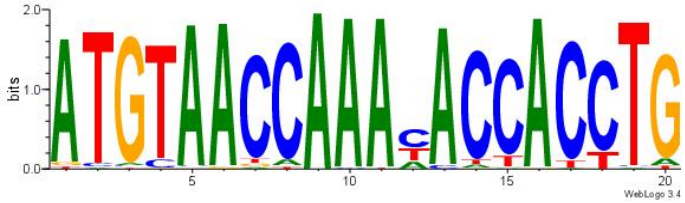

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

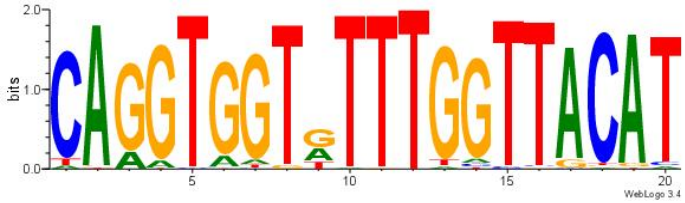

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.076376

Alignment:
TGGAGGTTSTAG
TGCAGTTTG---

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

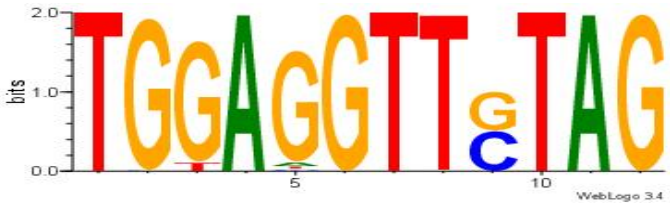

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0769019

Alignment:

```
ACTCAGCCCRCCTGCACCC
-------CAAACTGCA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

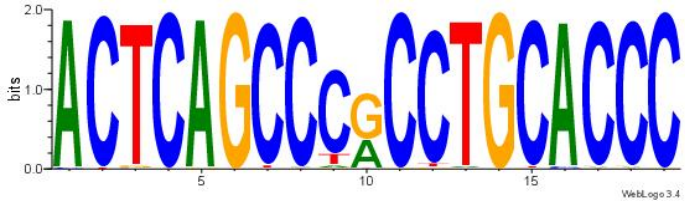

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

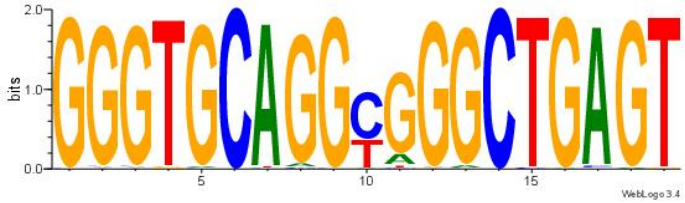

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0796935

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-----CAAACTGCA------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

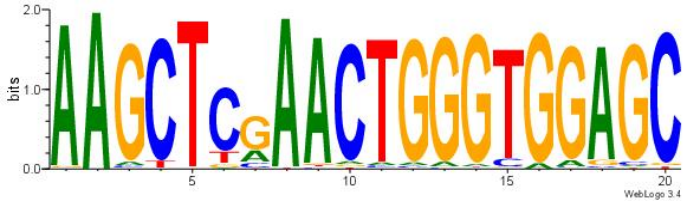

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

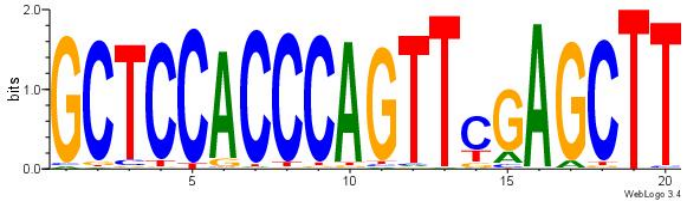

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9

Similarity score: 0.0797275

Alignment:
TTGTCCCACTGGAAGGTCTT
----CAAACTGCA-------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

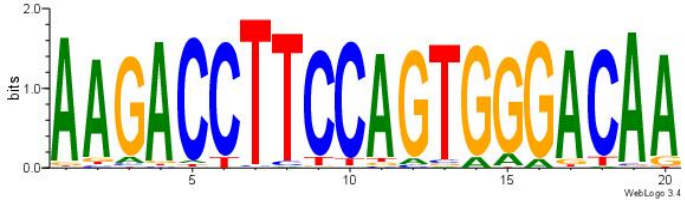

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

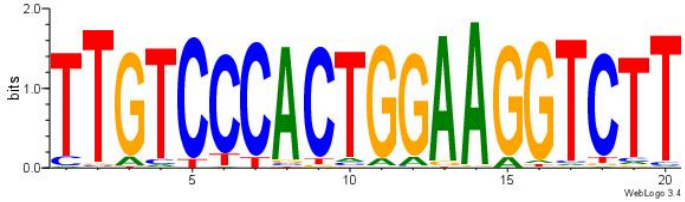

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.0798749

Alignment:
TAAAAGACTACAWATTGGGT
---CAAACTGCA--------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

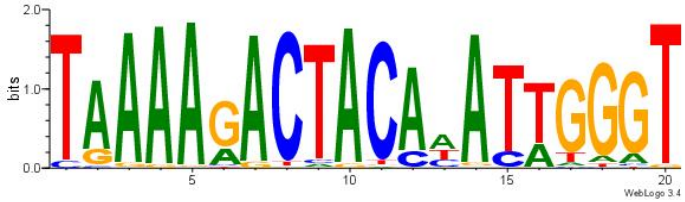

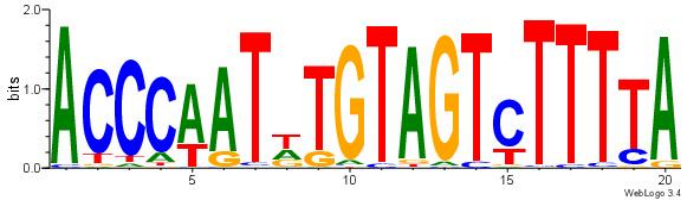

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0801106

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---CAAACTGCA--------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

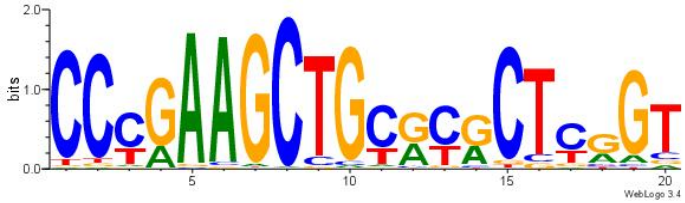

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

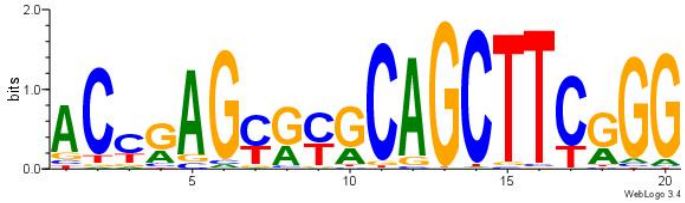

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0808962

Alignment:

```
ATGTGGAGGTGGAAGACAGT
---TGCAGTTTG--------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

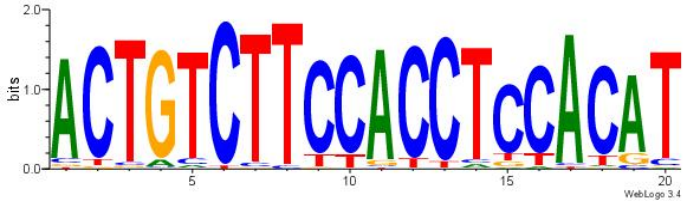

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

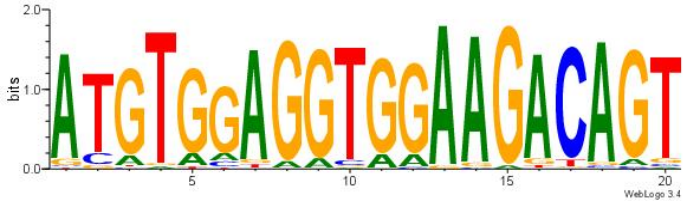

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9

Similarity score: 0.0816013

Alignment:
TTGGAGGTTCTAGCAGGG
-TGCAGTTTG--------

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

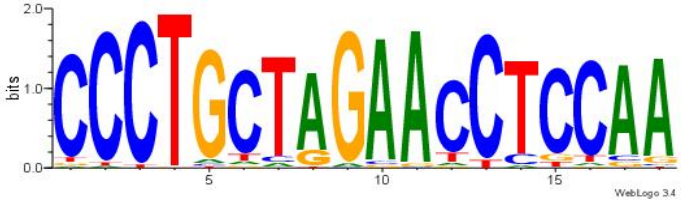

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

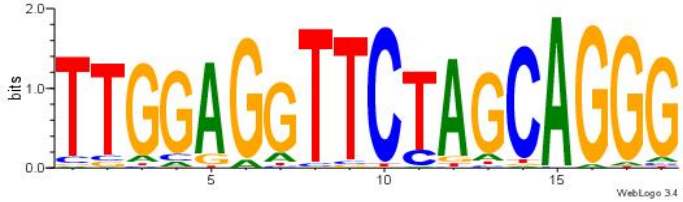

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 9
Similarity score: 0.0821665

Alignment:
GCCAATTTCTCCCATTTGGA
---------TGCAGTTTG--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

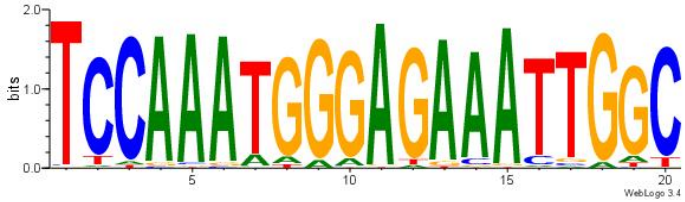

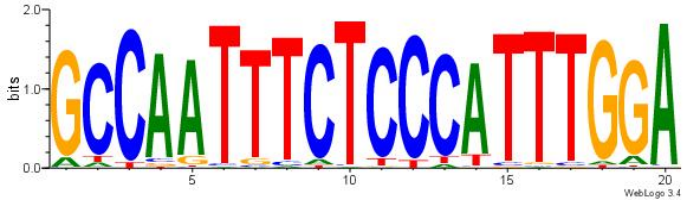

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0840288

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-------CAAACTGCA----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

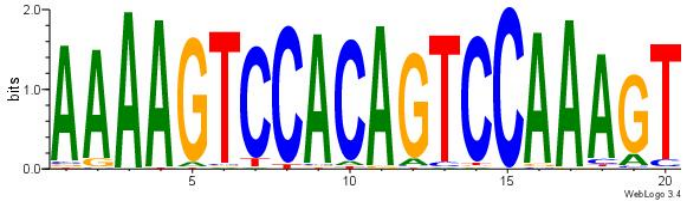

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

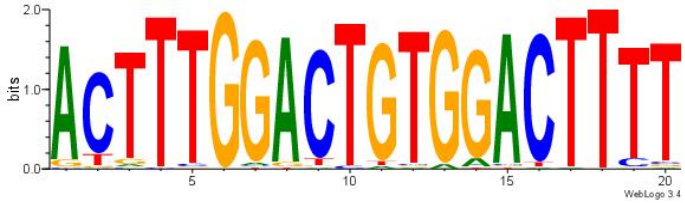

Dataset #:	1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.084656

Alignment:

```
MGGAAACTGAGGC
--CAAACTGCA--
```

Original motif Consensus sequence: GCCTCAGTTTCCY

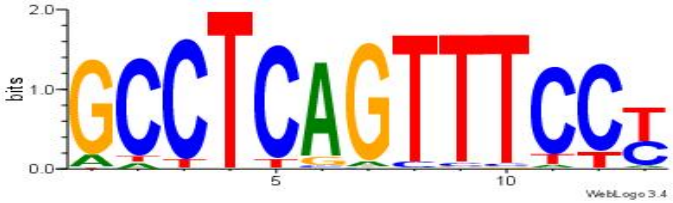

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

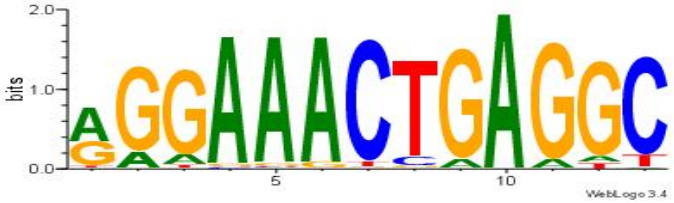

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0849644

Alignment:
GCTGGAGTGCAGTGGCRYGA
----TGCAGTTTG-------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

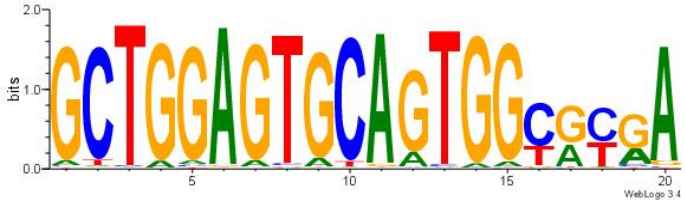

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

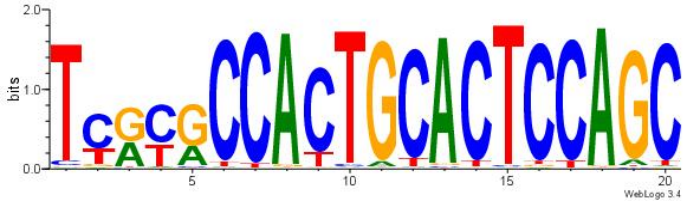

Dataset #:	1
Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0852677

Alignment:
CCAAACCATATCA
-CAAACTGCA---

Original motif Consensus sequence: CCAAACCATATCA

Reverse complement motif Consensus sequence: TGATATGGTTTGG

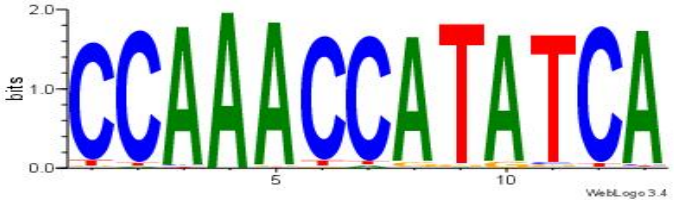

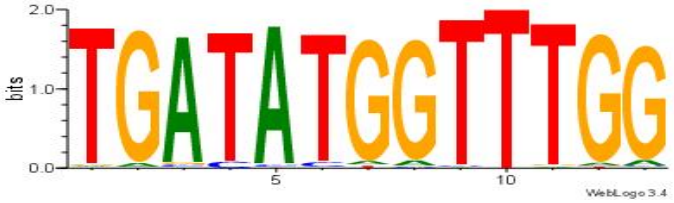

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0854002

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-----TGCAGTTTG------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

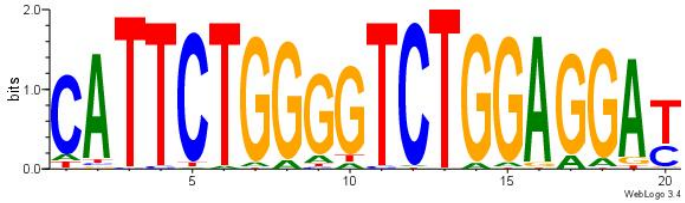

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

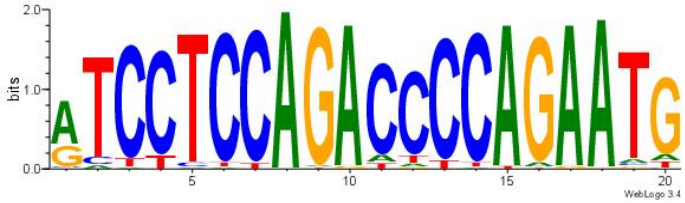

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0855738

Alignment:

```
AATGAKATCATGTCYTTTGC
----------TGCAGTTTG-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

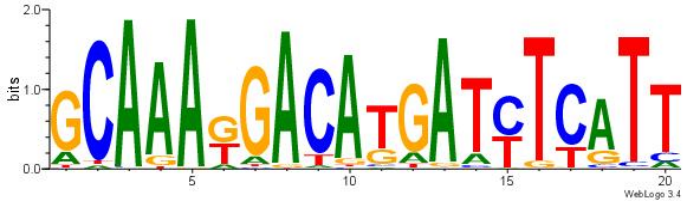

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

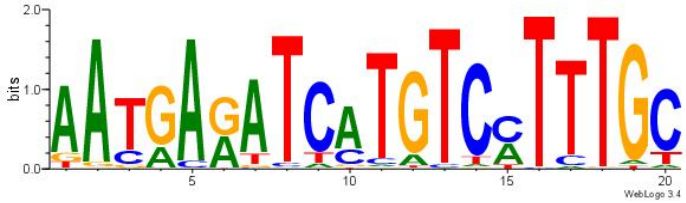

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9

Similarity score: 0.0860832

Alignment:
CCCAAATCTCATSTTGAAT
--CAAACTGCA--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

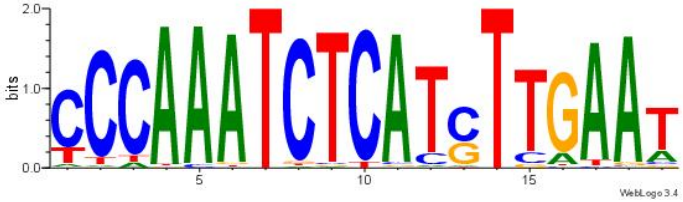

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

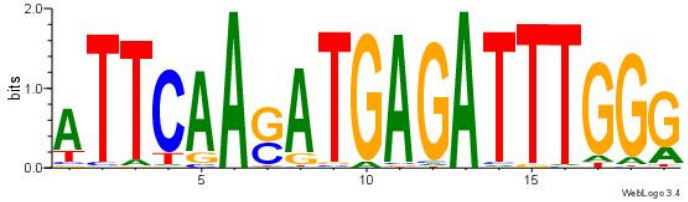

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 9
Similarity score: 0.0864847

Alignment:
GAAAAGCGCAGTATTMGGG
-CAAACTGCA---------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

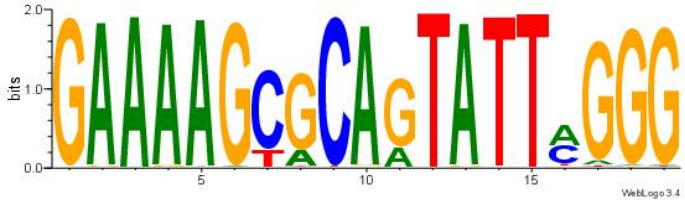

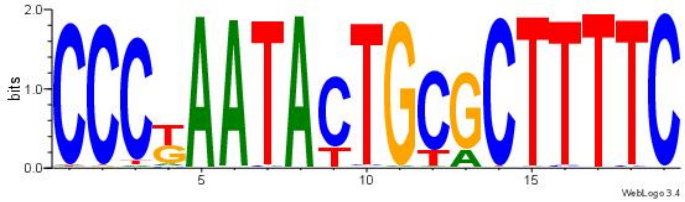

Dataset #:	1
Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0869291

Alignment:

```
TTCTGTTTCT
TGCAGTTTG-
```

Original motif Consensus sequence: AGAAACAGAA

Reverse complement motif Consensus sequence: TTCTGTTTCT

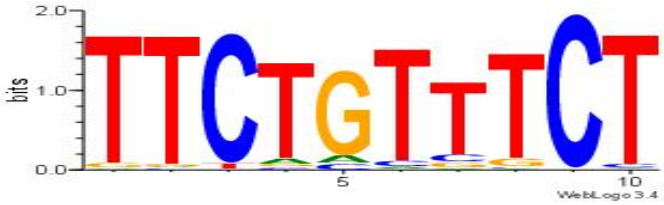

Dataset #:	1
Motif ID:	68

Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0871531

Alignment:

```
CATGGCGGGCTGCAGGTC
-----CAAACTGCA----
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

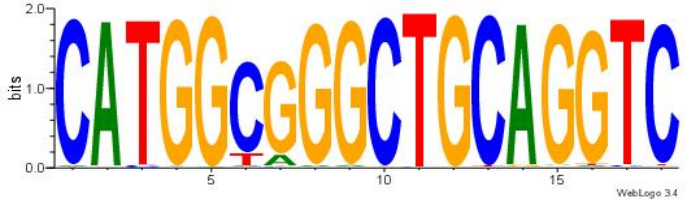

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

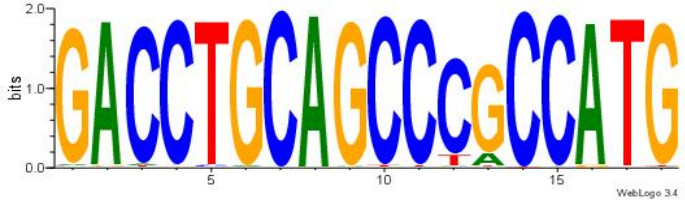

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0871671

Alignment:
AGTTGTAATTGGGAGACTT
---TGCAGTTTG-------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

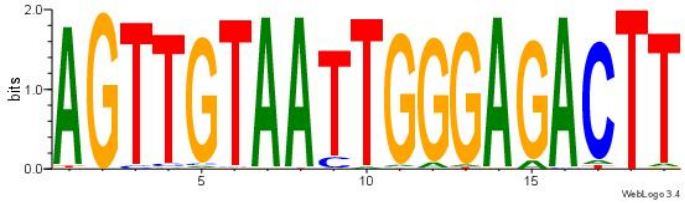

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

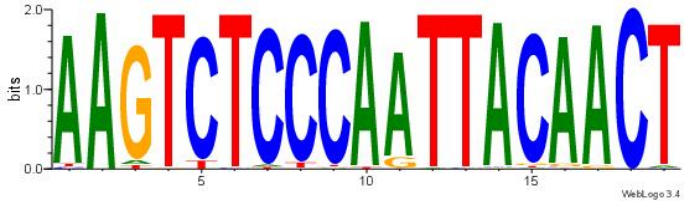

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0874377

Alignment:
CCCCGGGCAGTGAGGG
-----TGCAGTTTG--

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

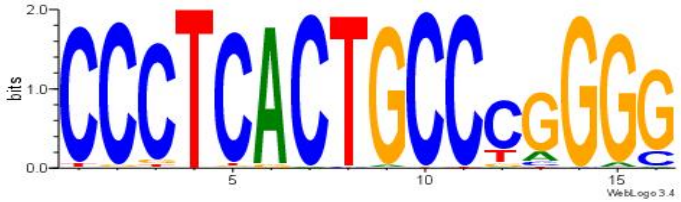

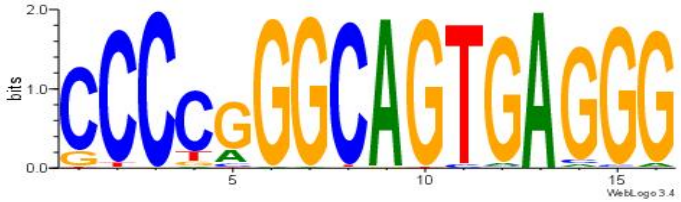

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.087488

Alignment:

```
GTTAACTGTAAAACAGCCT
-CAAACTGCA---------
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

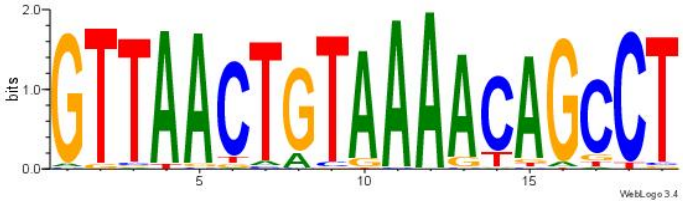

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

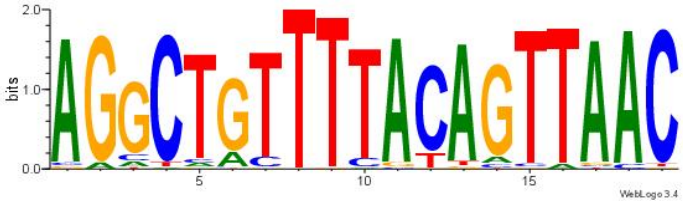

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0882944

Alignment:

```
KACATTGATTTTGTATC
----TGCAGTTTG----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

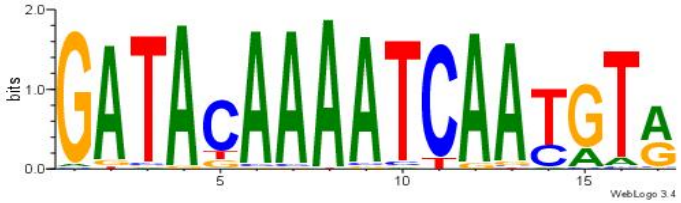

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

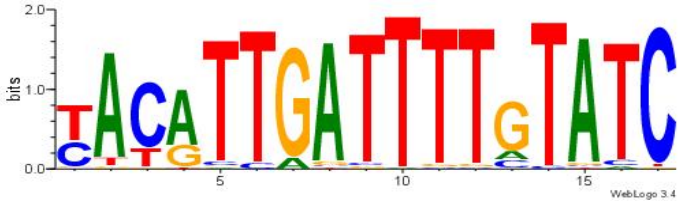

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9

Similarity score: 0.0883035

Alignment:
AAAACCAGCAAGTTTTTAT
-CAAACTGCA---------

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

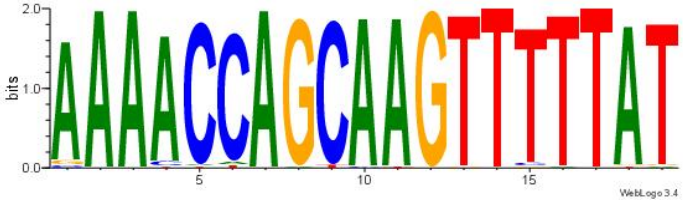

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

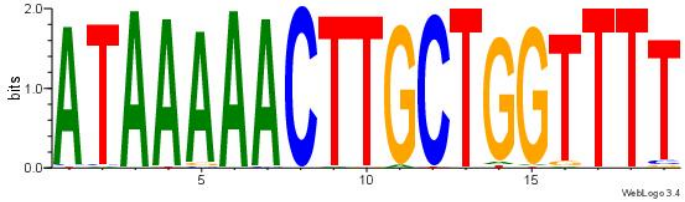

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0883422

Alignment:
ACATGCTACAACAT
-CAAACTGCA----

Original motif Consensus sequence: ACATGCTACAACAT

Reverse complement motif Consensus sequence: ATGTTGTAGCATG

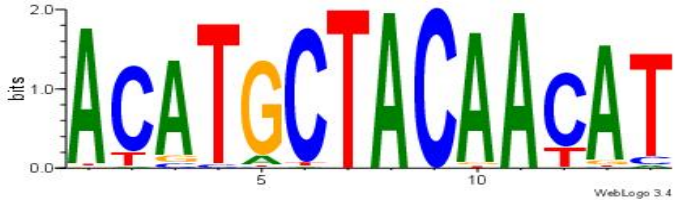

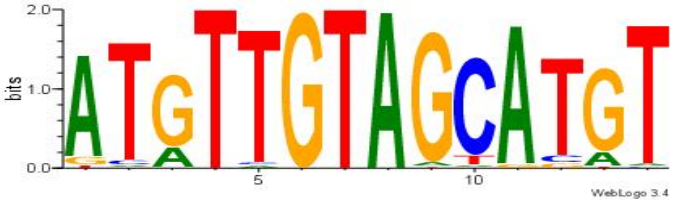

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0883575

Alignment:

```
ATCCAGTCTATCATTG
-TGCAGTTTG------
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

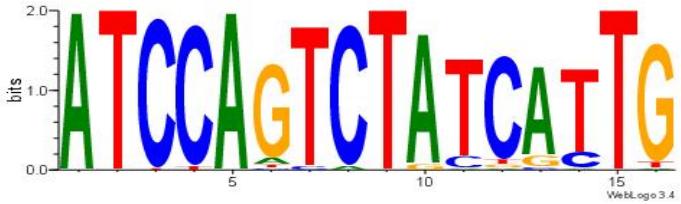

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

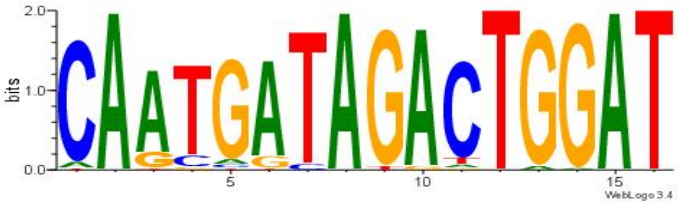

Dataset #: 1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0891322

Alignment:

```
CAAGCGCCAGCTCATGTC
CAAACTGCA---------
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

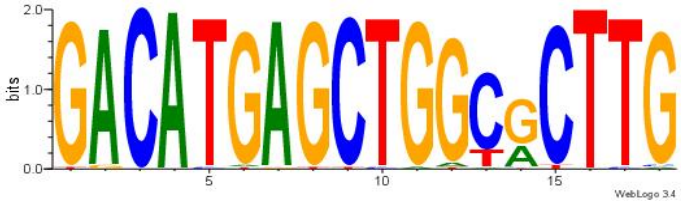

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

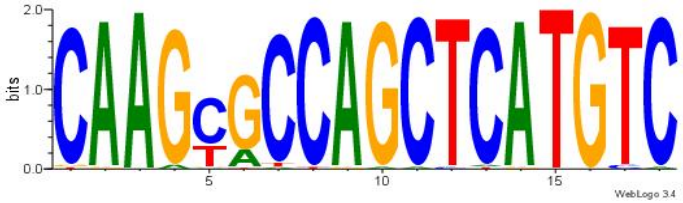

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9

Similarity score: 0.089698

Alignment:
AACCCTATTGTGAACTGYG
----------CAAACTGCA

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

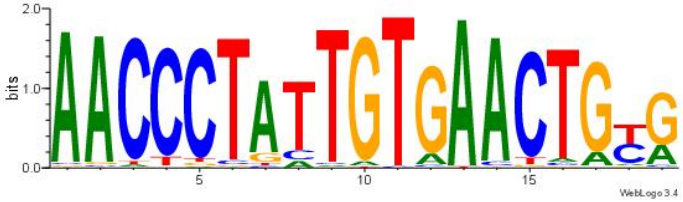

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

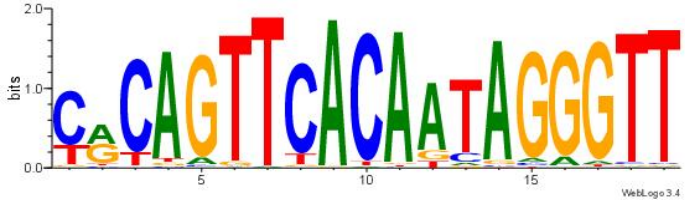

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0900325

Alignment:
CTCCAGKTMCATCCATGTTG
---------CAAACTGCA--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

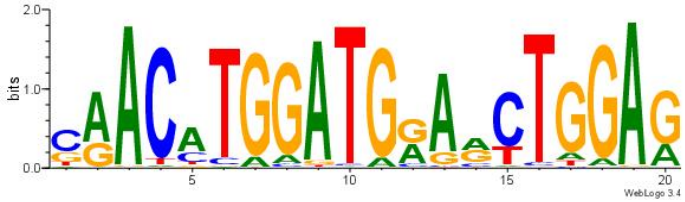

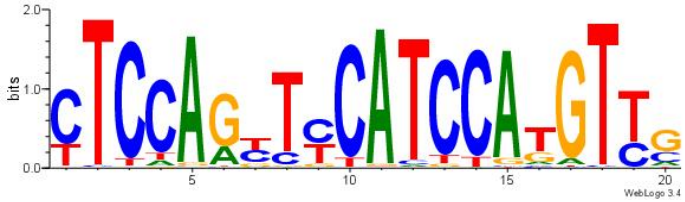

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0903524

Alignment:

```
AGGGATCTAGGTTGCR
-----TGCAGTTTG--
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

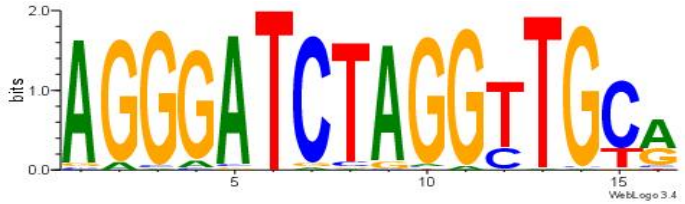

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

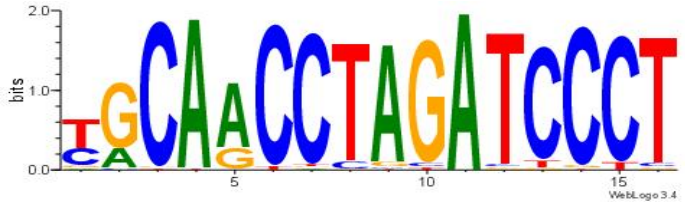

Dataset #:	1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0904212

Alignment:

```
TGCCCAGTCTGGAAAGTG
----CAAACTGCA-----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

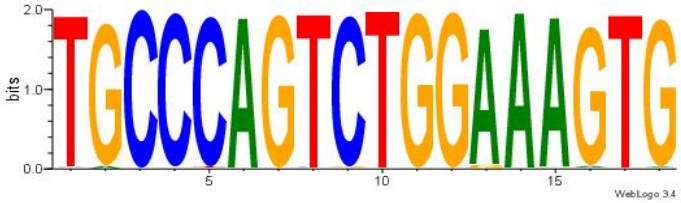

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

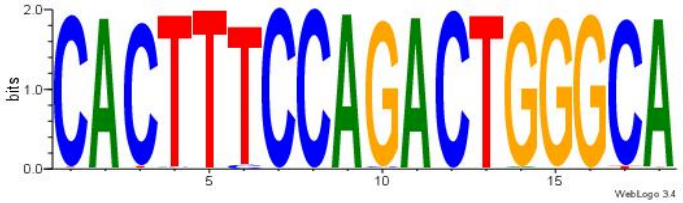

Dataset #:	1
Motif ID:	162
Motif name:	Motif 162
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9

Similarity score: 0.0910595

Alignment:
ATGGACCTTG
-TGCAGTTTG

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

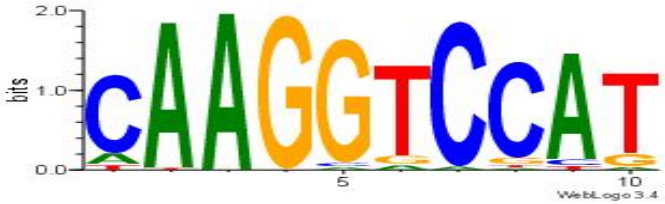

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0924325

Alignment:
GCCTCACTGCCRC
--CAAACTGCA--

Original motif Consensus sequence: GCCTCACTGCCRC

Reverse complement motif Consensus sequence: GKGGCAGTGAGG

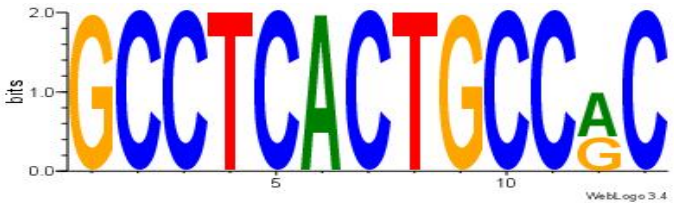

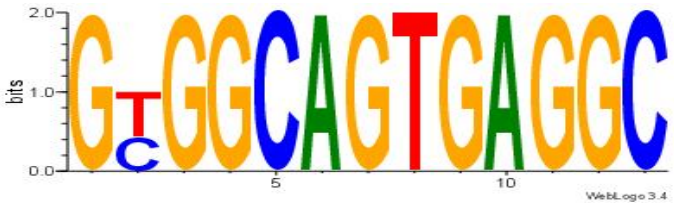

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0927114

Alignment:

```
GCAWSTGCAAAGGCCCT
CAAACTGCA--------
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

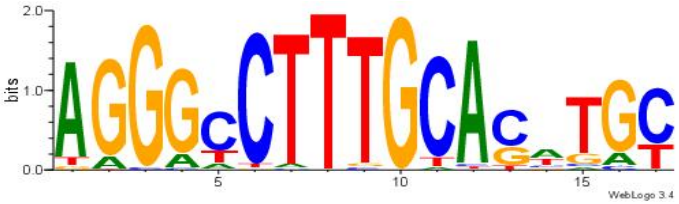

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

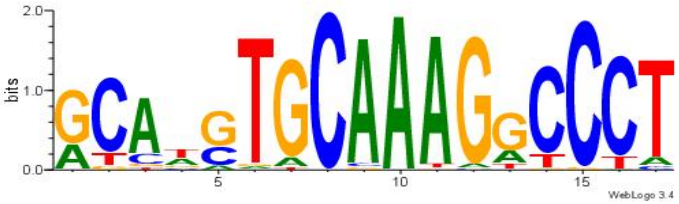

Dataset #: 1

Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0928457

Alignment:

```
TGCACTGCACCCAC
CAAACTGCA-----
```

Original motif Consensus sequence: TGCACTGCACCCAC

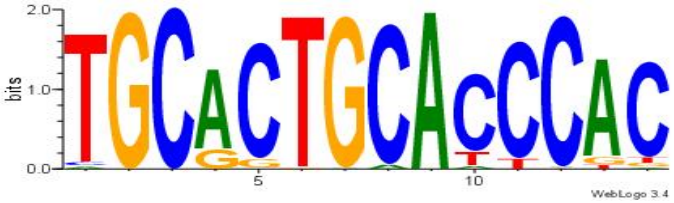

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

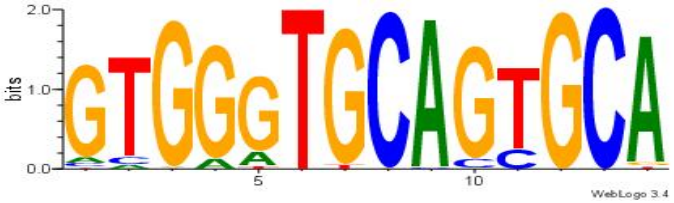

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0937238

Alignment:
GTCTGGMGTCTTGG
---TGCAGTTTG--

Original motif Consensus sequence: CCAAGACYCCAGAC

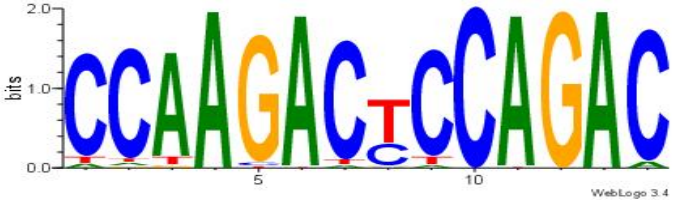

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

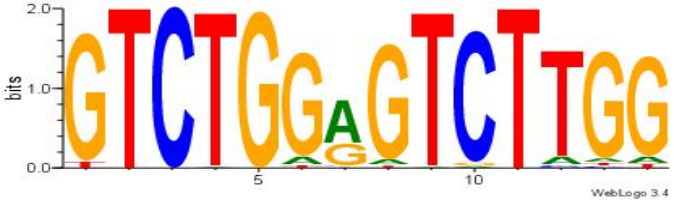

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0941819

Alignment:
AAAGCTGGAGCTATTATCTA
CAAACTGCA----------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

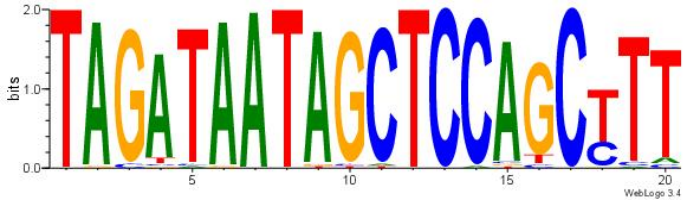

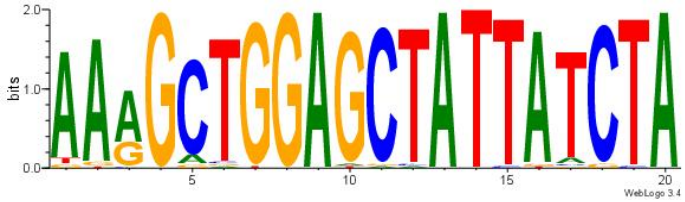

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0960152

Alignment:

```
GCTCCWGTGYGKCC
--TGCAGTTTG---
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

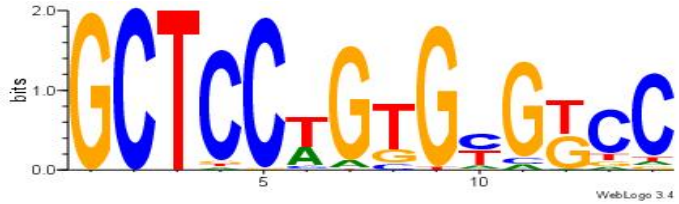

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1 Motif ID: 135 Motif name: Motif 135

Original motif Consensus sequence: CTCTTGTTGCCCAG

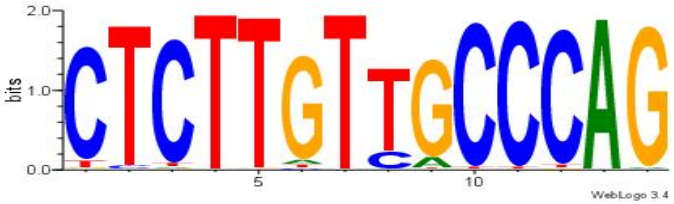

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

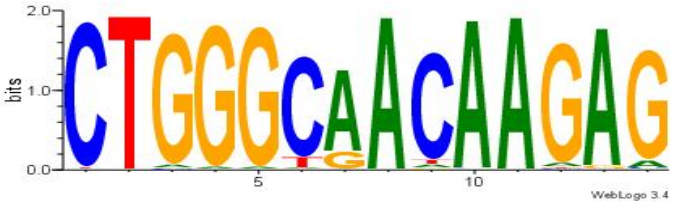

Best Matches for Motif ID 135 (Highest to Lowest)

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0668647

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-----CTGGGCAACAAGAG-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

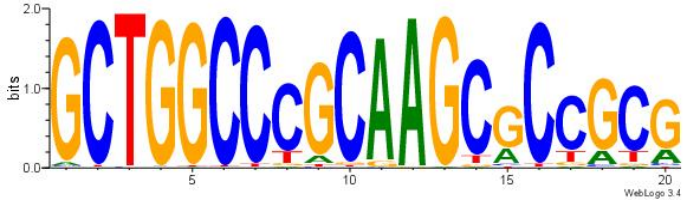

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

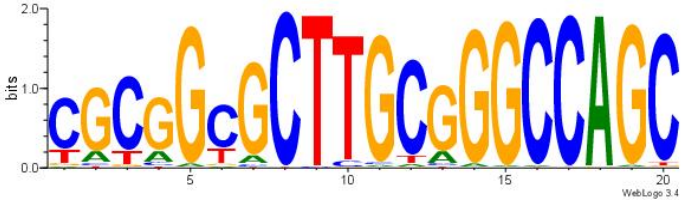

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0777944

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
CTCTTGTTGCCCAG------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

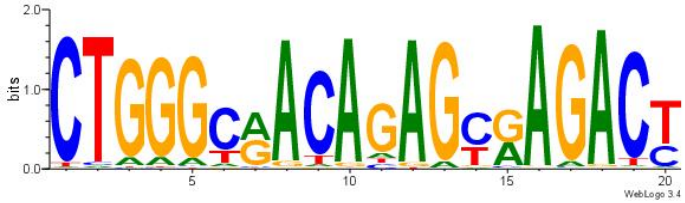

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

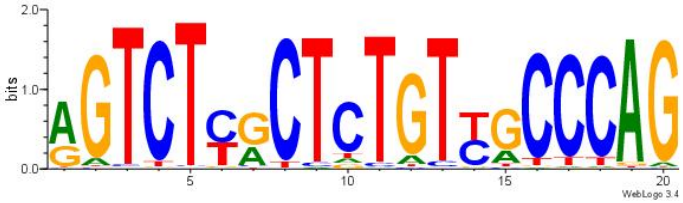

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.078748

Alignment:
CTGGCCCTCAATGGTTAAAC
CTGGGCAACAAGAG------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

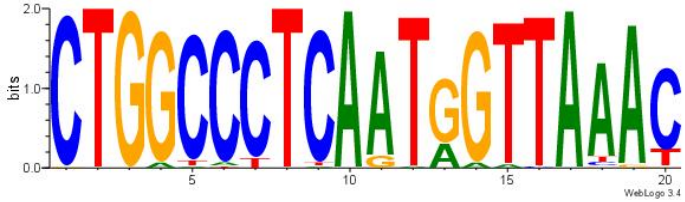

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

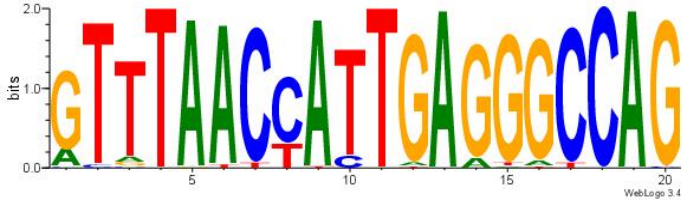

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.0800399

Alignment:
AAGTTCTKGGKTACATGTGC
-----CTGGGCAACAAGAG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

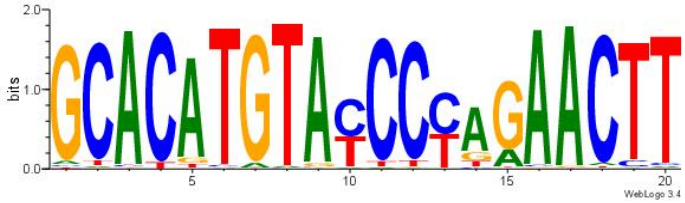

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

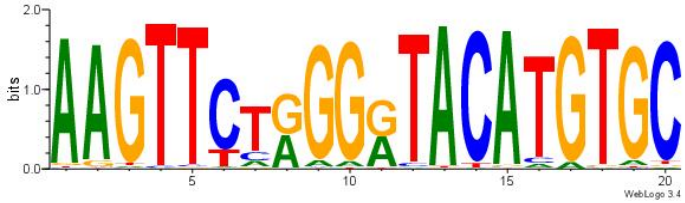

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0850974

Alignment:

```
CTGGGCACCATTGA
CTGGGCAACAAGAG
```

Original motif Consensus sequence: CTGGGCACCATTGA

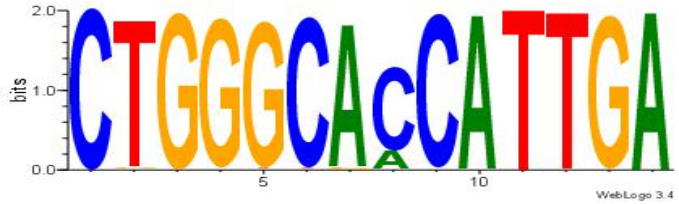

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

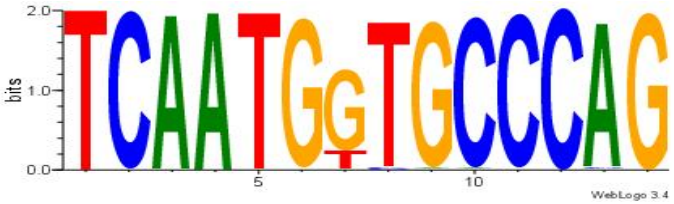

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0861677

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-CTCTTGTTGCCCAG-----
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

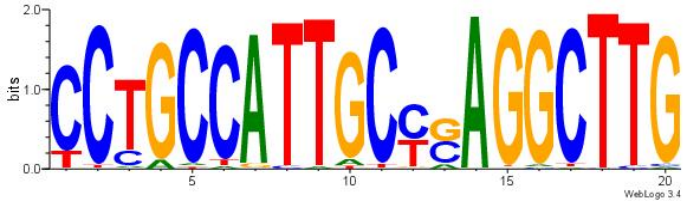

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

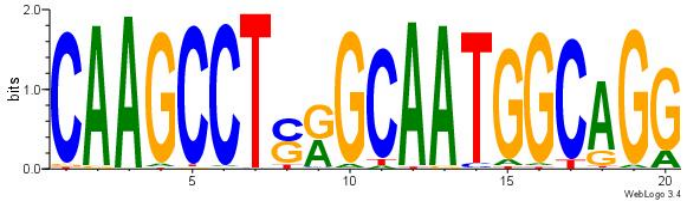

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.0868753

Alignment:
CCCTCACTGCCCGGGG
CTCTTGTTGCCCAG--

Original motif Consensus sequence: CCCTCACTGCCCGGGG

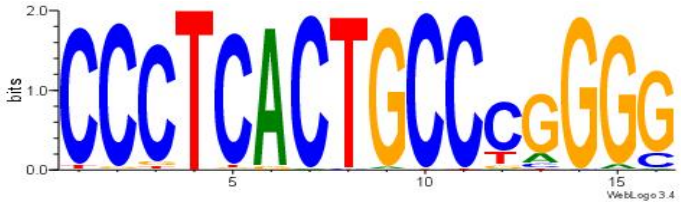

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

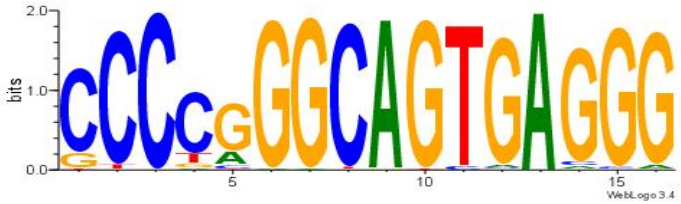

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0882922

Alignment:
AGGACTGAGGGTGCCYRGGG
----CTCTTGTTGCCCAG--

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

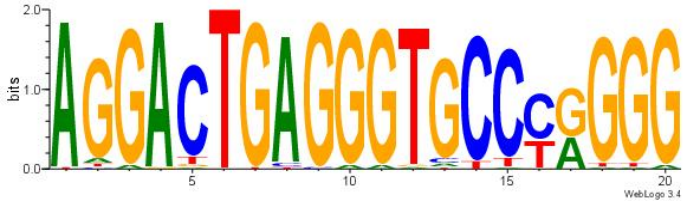

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

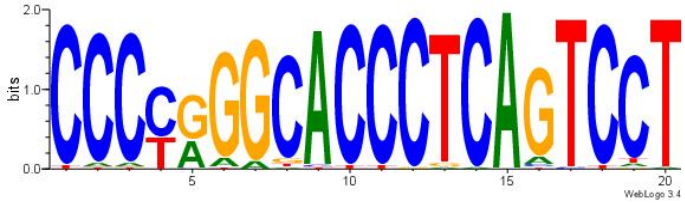

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0959798

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
----CTGGGCAACAAGAG--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

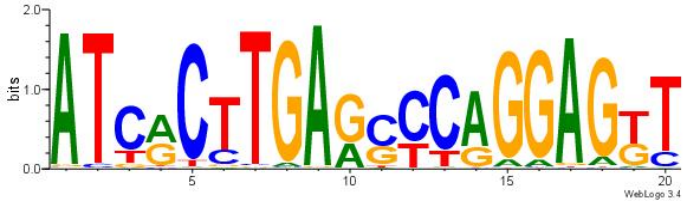

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

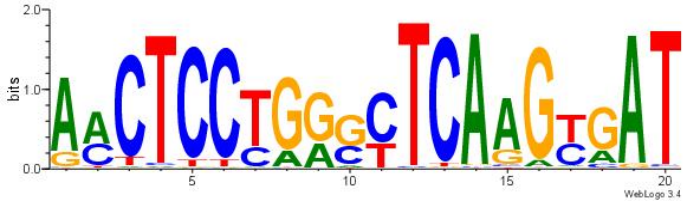

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0968415

Alignment:

```
CCTTGGCCAGCCCAGAAAG
----CTGGGCAACAAGAG-
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

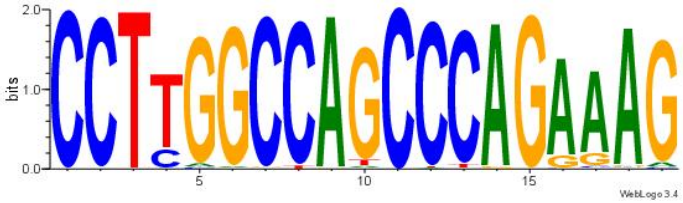

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

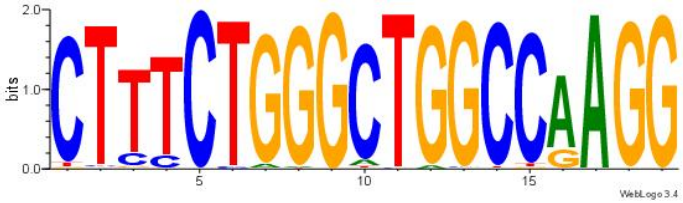

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 14
Similarity score: 0.0974773

Alignment:
TGGAGAACCTTTATGTCTAG
CTCTTGTTGCCCAG------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

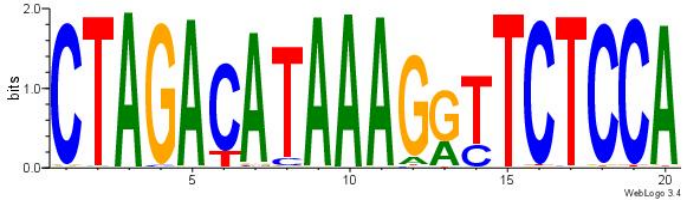

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

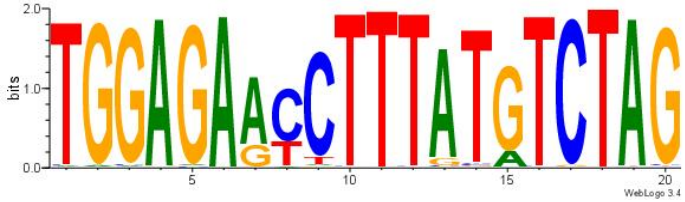

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.0979571

Alignment:
CAGCTACTCKTATACCCTTG
------CTCTTGTTGCCCAG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

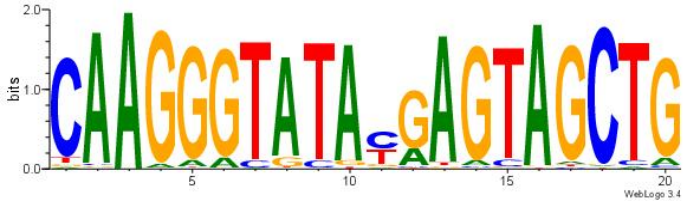

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

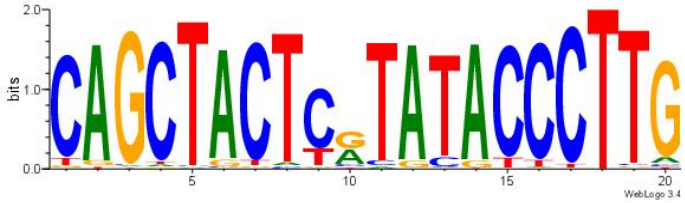

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.098714

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--CTCTTGTTGCCCAG----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

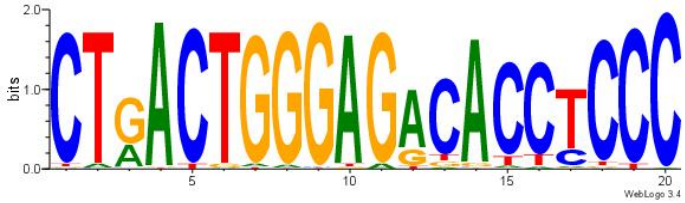

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

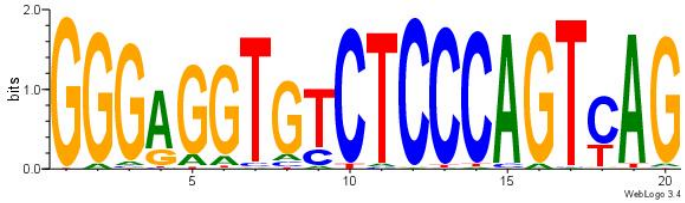

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.100929

Alignment:

```
GTGGCCCTCTTCTCACAGCT
----CTCTTGTTGCCCAG--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

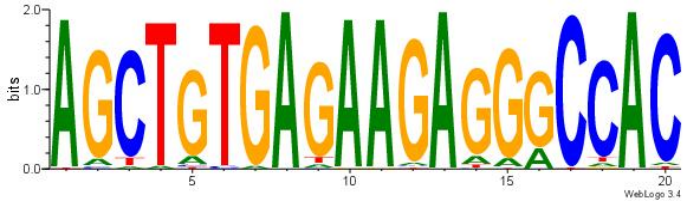

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

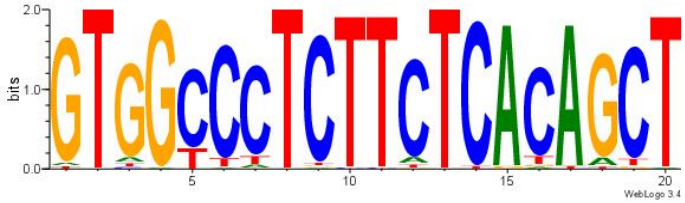

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.101735

Alignment:
GCCTCTCCCTCCACACCTCC
--CTCTTGTTGCCCAG----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

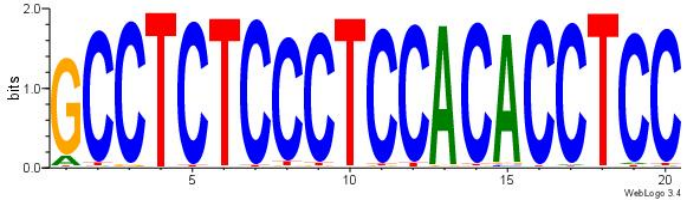

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

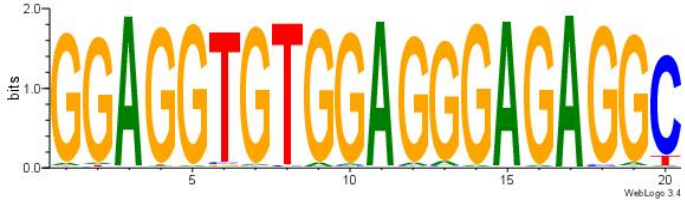

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.104787

Alignment:
CMCAGTTCACAATAGGGTT
-CTGGGCAACAAGAG----

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

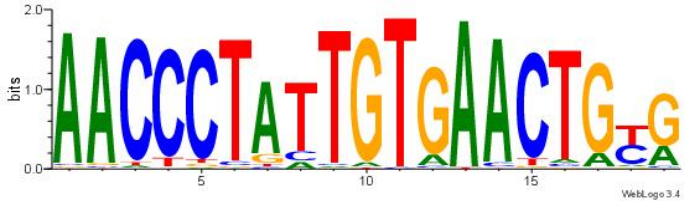

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

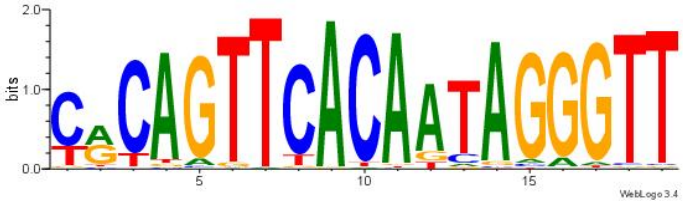

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.104964

Alignment:

```
CTTGCGCTTCCCRRGTGA
CTCTTGTTGCCCAG----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

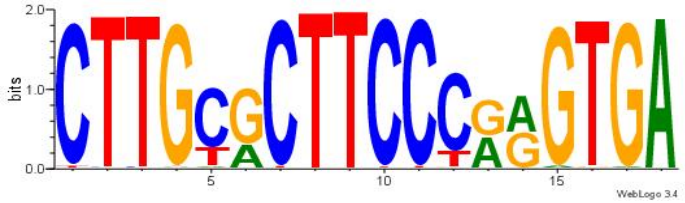

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

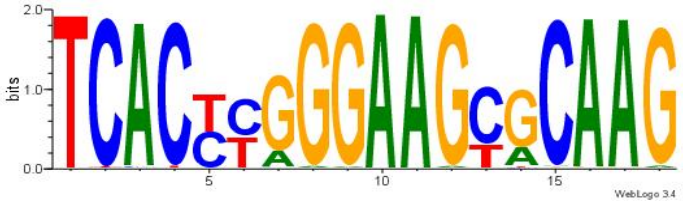

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.105831

Alignment:

```
CATTTGGGAGCCCATTGA
-CTCTTGTTGCCCAG---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

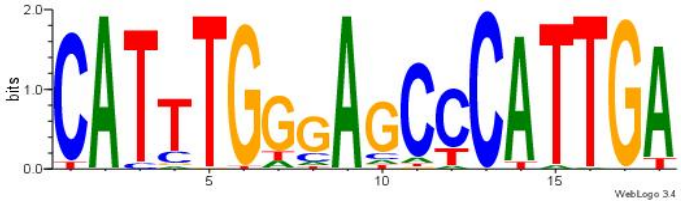

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

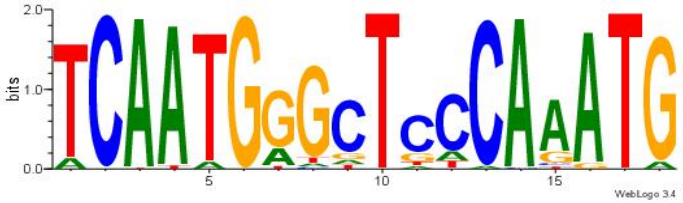

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.106325

Alignment:
GCGCTCKTCGGGGAGGCTCG
-----CTCTTGTTGCCCAG-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

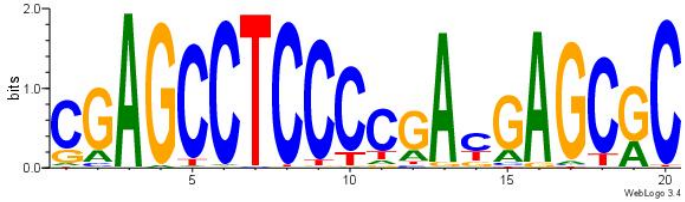

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

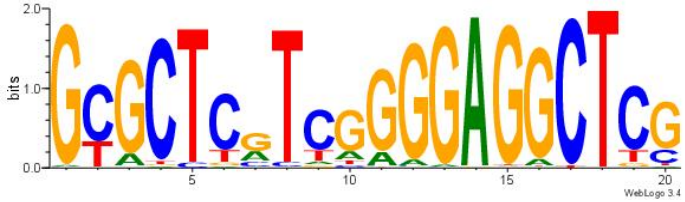

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.10636

Alignment:
AGAGCTCTGGCTGGCATCT
----CTCTTGTTGCCCAG-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

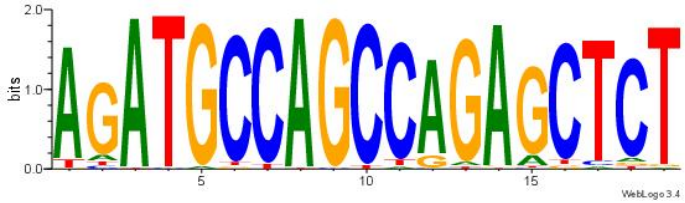

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

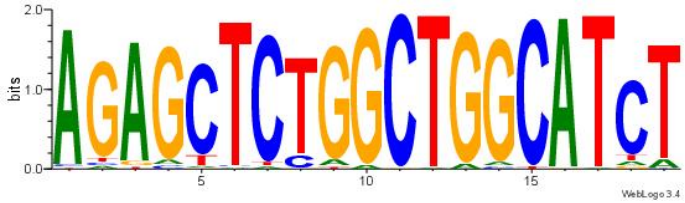

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.106397

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-CTCTTGTTGCCCAG-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

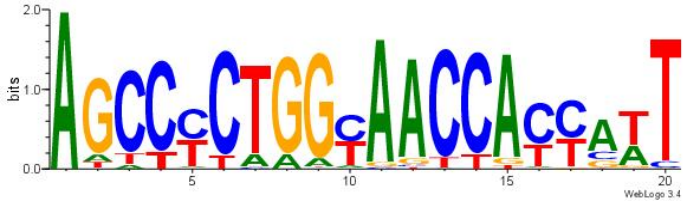

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

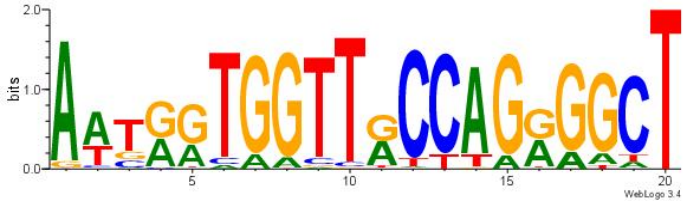

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.107048

Alignment:

```
AGGTTTGTTACATAGGTAWA
-CTCTTGTTGCCCAG-----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

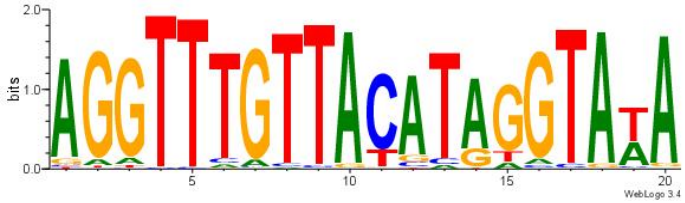

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

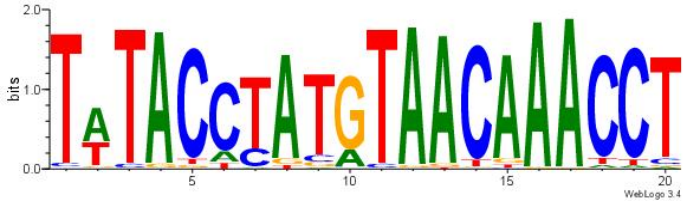

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.111171

Alignment:
CAAASCKGTCATAGGCCAT
-----CTCTTGTTGCCCAG

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

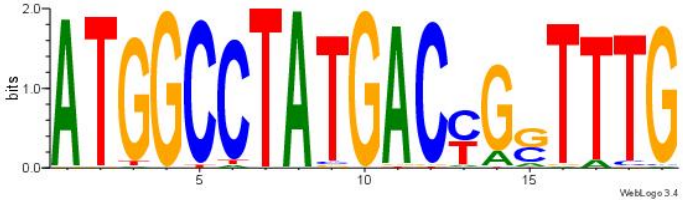

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

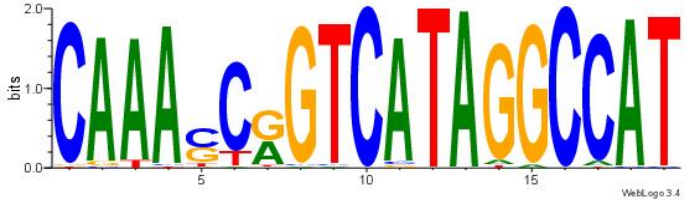

Dataset #: 1
Motif ID: 117
Motif name: Motif 117
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.11214

Alignment:
AACAACAACAACAAMAA
CTGGGCAACAAGAG---

Original motif Consensus sequence: AACAACAACAACAAMAA

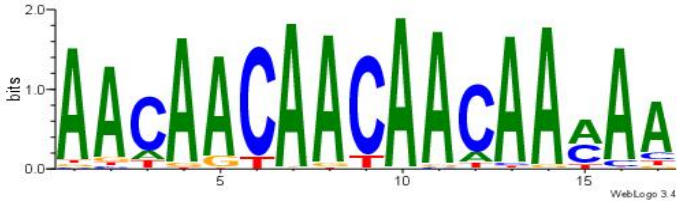

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

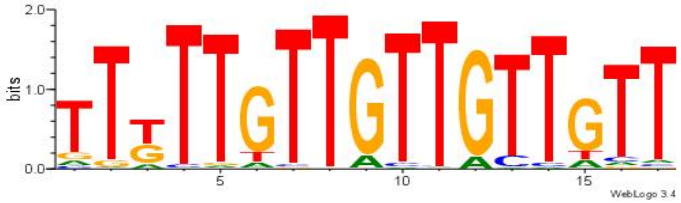

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.112836

Alignment:

```
MCCYGGCWSMGASGSTCCT
-CTGGGCAACAAGAG----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

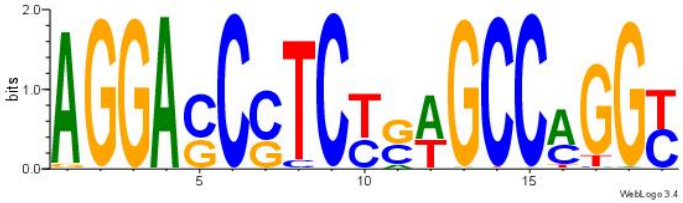

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

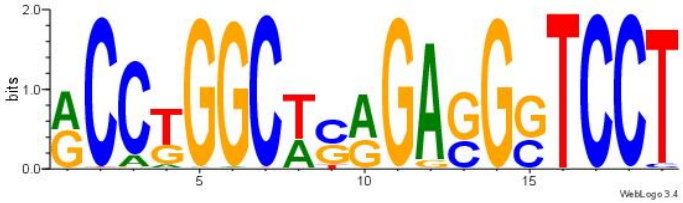

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.11317

Alignment:

```
GGGAGGGATATATTAGC
--CTGGGCAACAAGAG-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

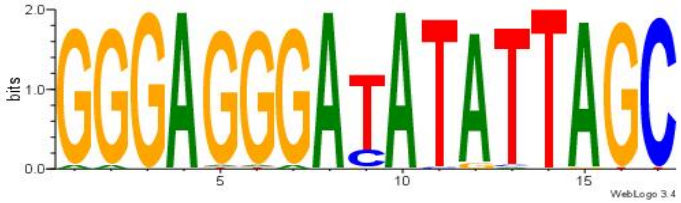

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

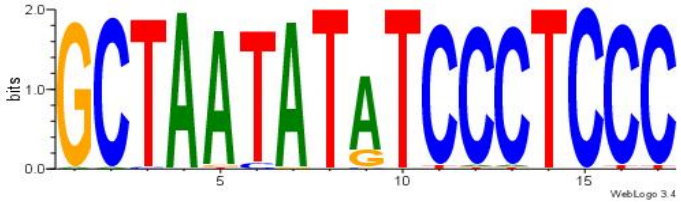

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 14
Similarity score: 0.113243

Alignment:
GCGMGCGGGAACCGGGGCT
---CTGGGCAACAAGAG--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

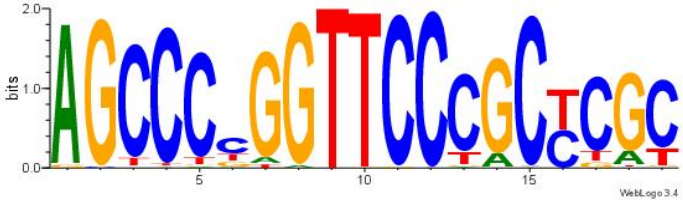

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

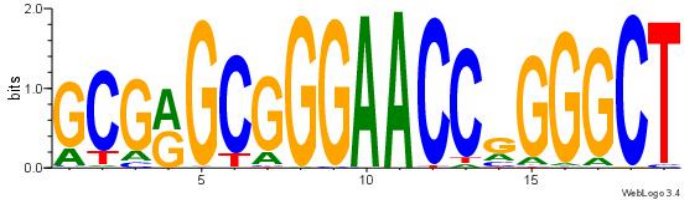

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.113348

Alignment:
TTGTCCCACTGGAAGGTCTT
CTGGGCAACAAGAG------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

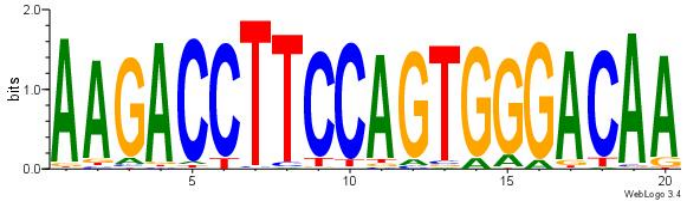

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

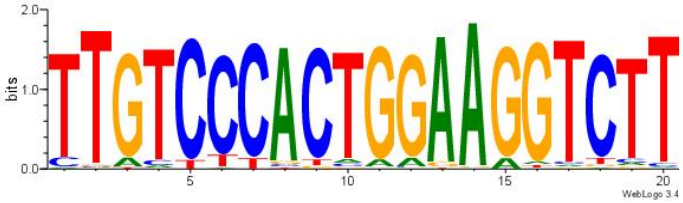

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.113574

Alignment:

```
TCKMGCCACTGCACTCCAGC
-CTCTTGTTGCCCAG-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

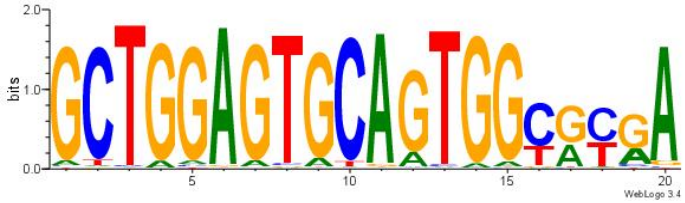

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

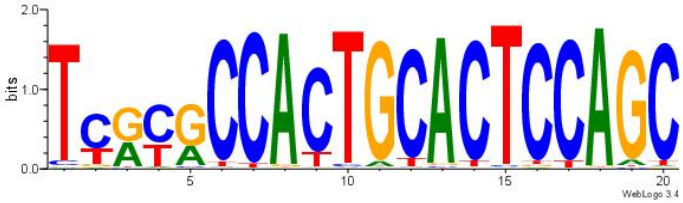

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.113626

Alignment:

```
CAAAGGCATAAGAATGAT
CTGGGCAACAAGAG----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

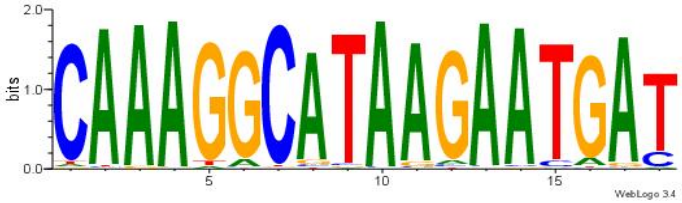

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

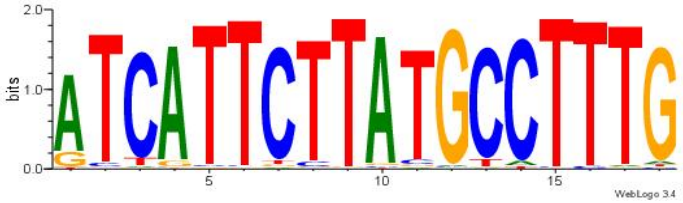

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.113646

Alignment:
AGTGACCCGATTTTCCAGGT
--CTCTTGTTGCCCAG----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

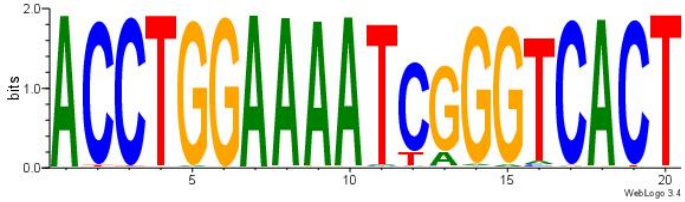

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

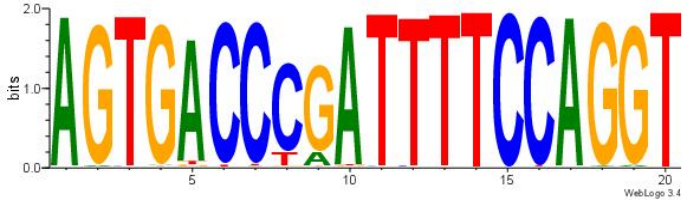

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.114135

Alignment:
GKCTGTACCCCCATTGTAT
--CTGGGCAACAAGAG---

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

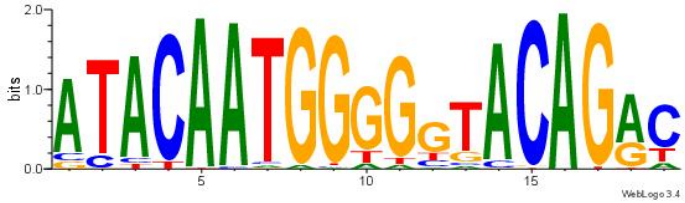

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

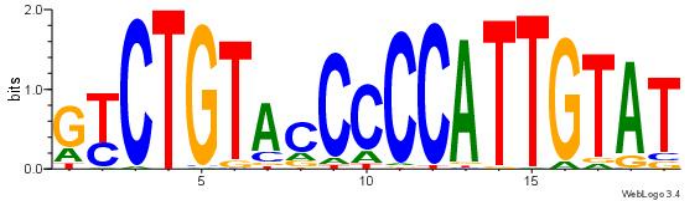

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.114275

Alignment:

```
GTCCCATCGACCACCCAAG
CTCTTGTTGCCCAG-----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

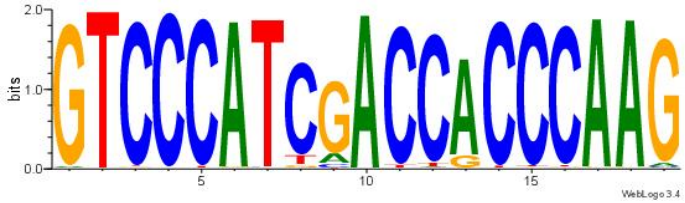

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

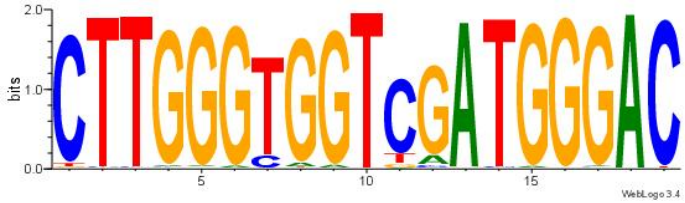

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.114331

Alignment:

```
CTCTGCCCGGCCGC
CTCTTGTTGCCCAG
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

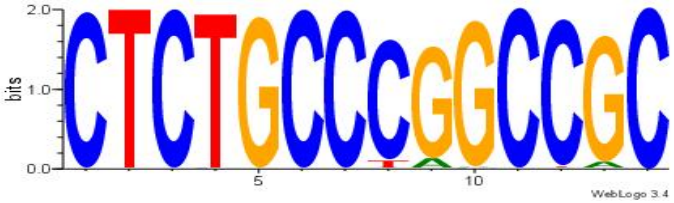

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

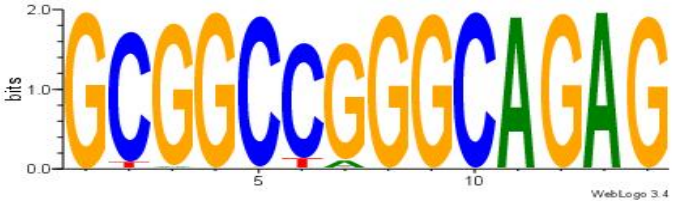

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.115495

Alignment:
GCTTAGCACCYGGGCCAGC
----CTGGGCAACAAGAG-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

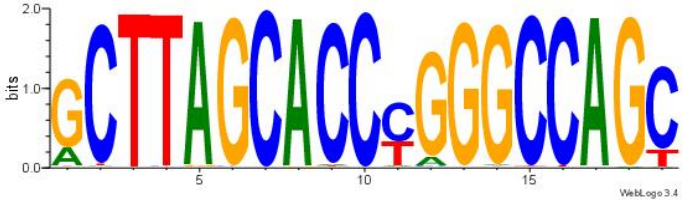

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

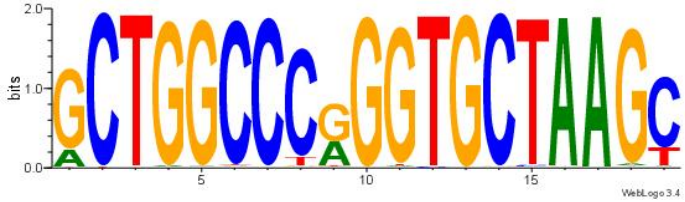

Dataset #: 1
Motif ID: 279
Motif name: Motif 279
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.115716

Alignment:
MGTGTGATGTCTCCCCC
---CTCTTGTTGCCCAG

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

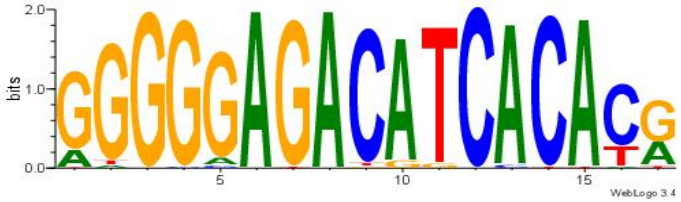

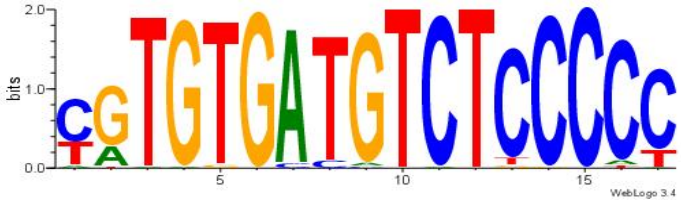

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.115752

Alignment:

```
ACATGCTACAACAT
CTGGGCAACAAGAG
```

Original motif Consensus sequence: ACATGCTACAACAT

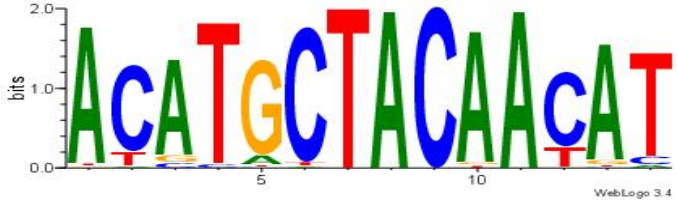

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

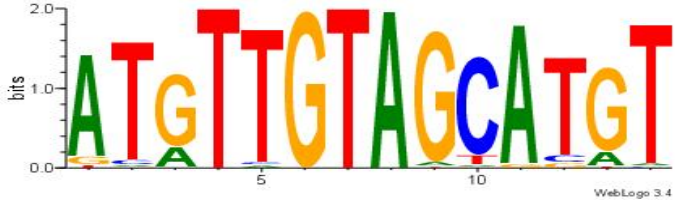

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.115961

Alignment:

```
GCCAATTTCTCCCATTTGGA
-CTCTTGTTGCCCAG-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

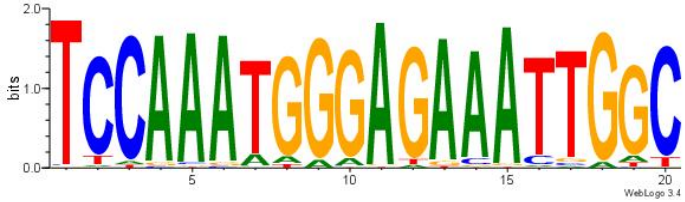

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

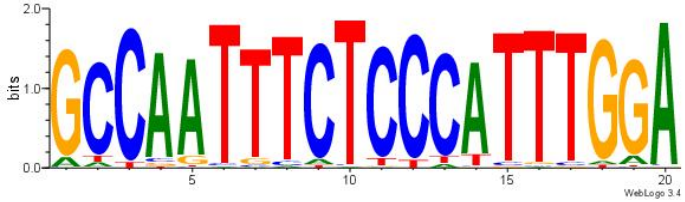

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.116117

Alignment:
TGCTGGAGGTCCACTCCAGA
-----CTGGGCAACAAGAG-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

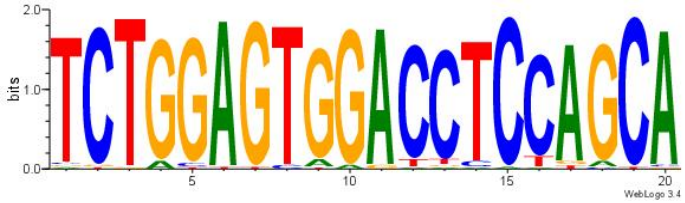

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

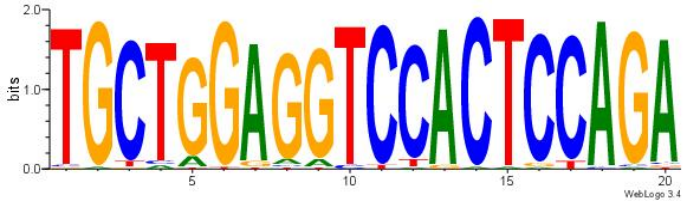

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.116764

Alignment:
TCCTATGAGAATCTAATG
----CTGGGCAACAAGAG

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

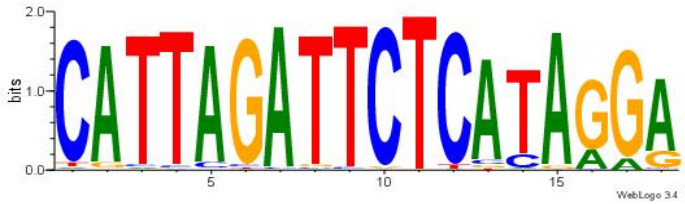

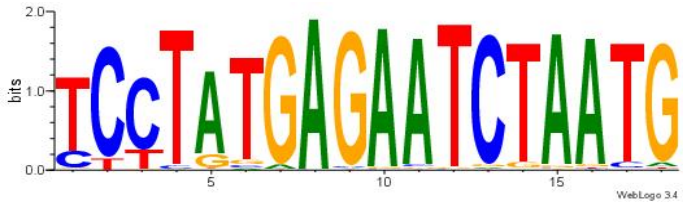

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.116904

Alignment:

```
GGAGGATCACKTGAG
-CTGGGCAACAAGAG
```

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

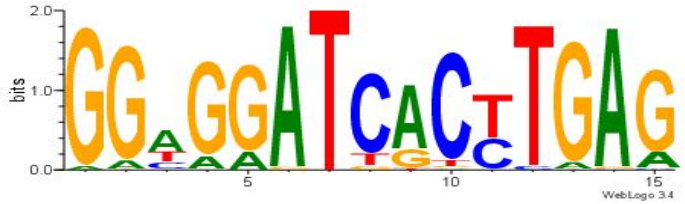

Dataset #:	1
Motif ID:	7

Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.117019

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
--CTCTTGTTGCCCAG----
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

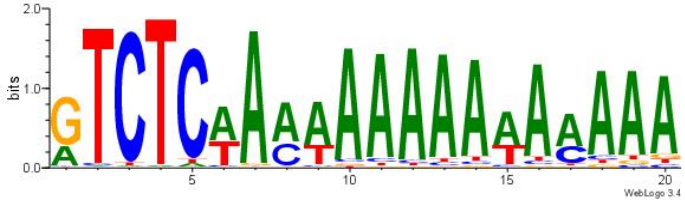

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

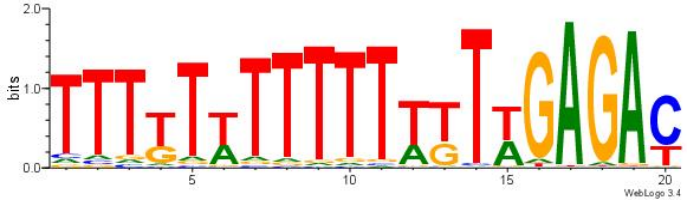

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.117223

Alignment:
CCACCACAGCTCAAGGAGGC
------CTGGGCAACAAGAG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

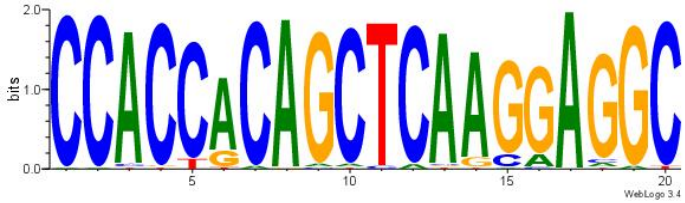

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

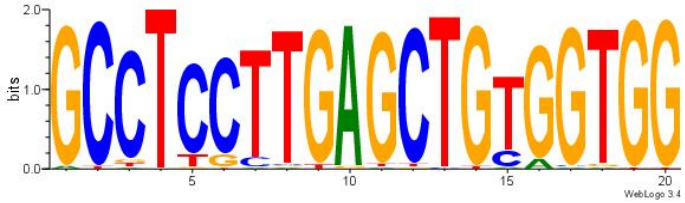

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.117363

Alignment:
GATCACGAGGTCAGGAG
CTGGGCAACAAGAG---

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

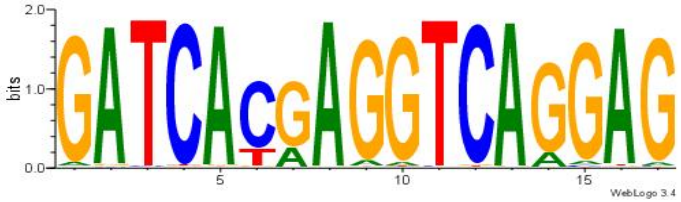

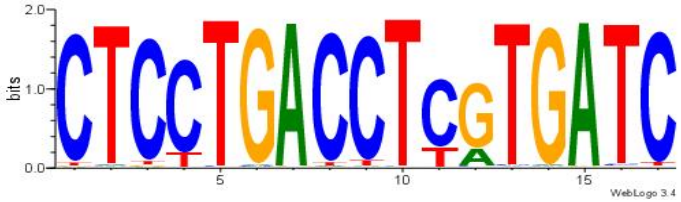

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.117834

Alignment:

```
CACCAGACTCAGGAGCCCAG
CTCTTGTTGCCCAG------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

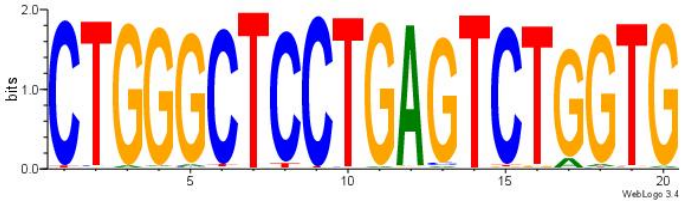

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

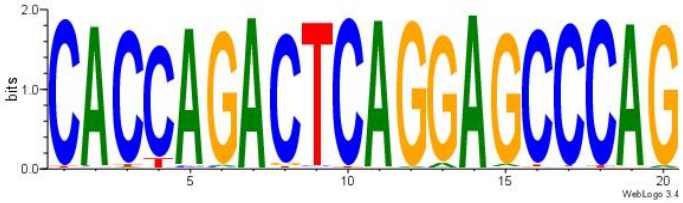

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.118061

Alignment:

```
CCGCTGCACTGTGGGAGCCC
---CTGGGCAACAAGAG---
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

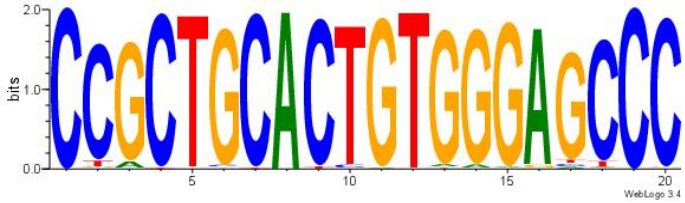

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

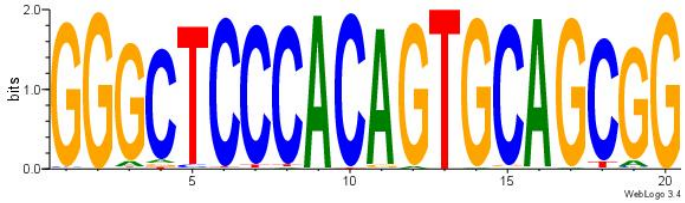

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.118347

Alignment:
AGCTAGAYACAGAGTGC
--CTGGGCAACAAGAG-

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

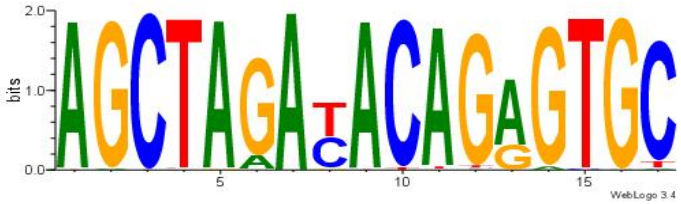

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

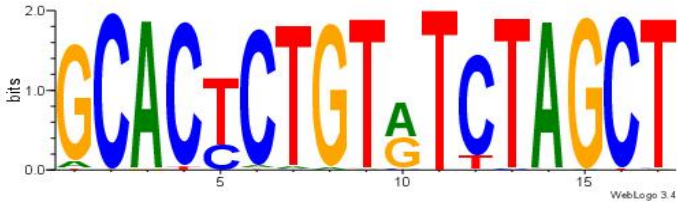

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.118542

Alignment:
GACCTGCAGCCCGCCATG
----CTCTTGTTGCCCAG

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

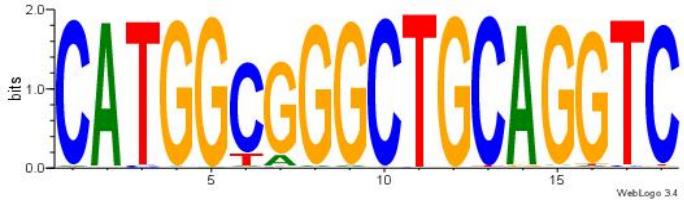

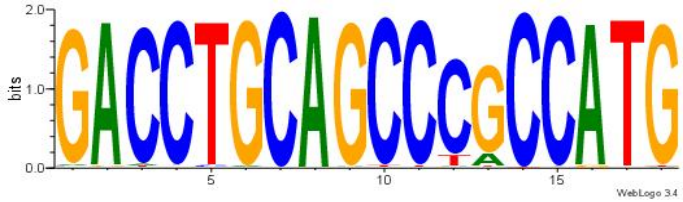

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.118757

Alignment:
GAATACCTCCTGAAGGACCT
------CTCTTGTTGCCCAG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

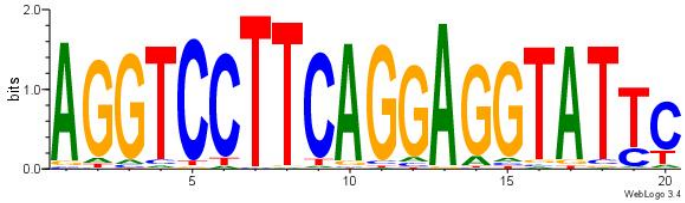

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

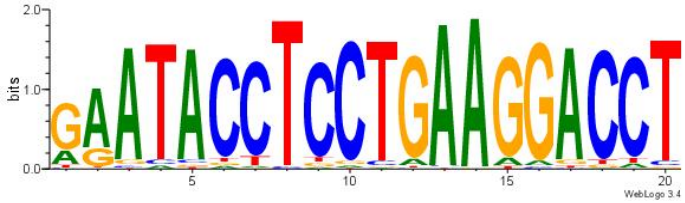

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.119033

Alignment:

```
CTCAGTGTTAATCTCCTGTC
----CTCTTGTTGCCCAG--
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

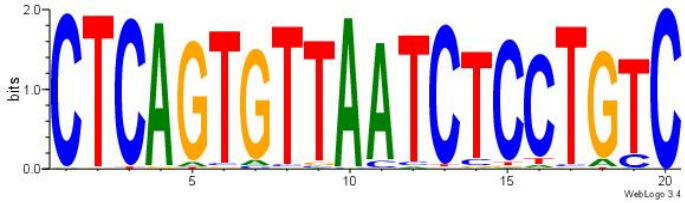

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

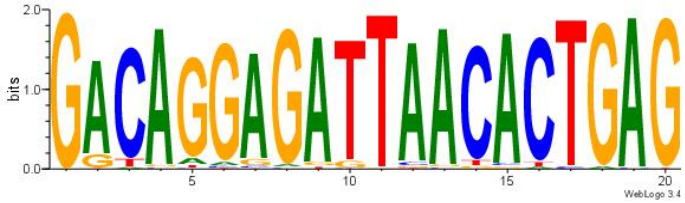

Dataset #: 1 Motif ID: 136 Motif name: Motif 136

Original motif Consensus sequence: CCCTCACTGCCCGGGG

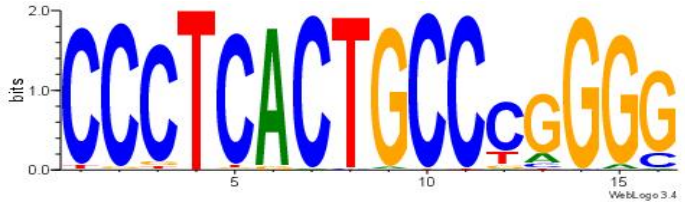

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

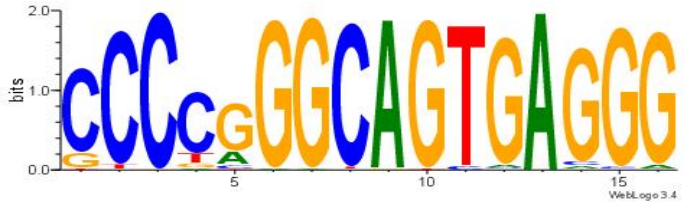

Best Matches for Motif ID 136 (Highest to Lowest)

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0741545

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
---CCCCGGGCAGTGAGGG-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

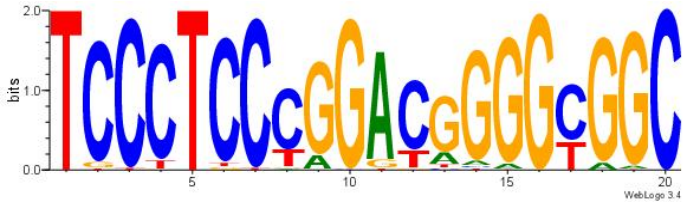

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

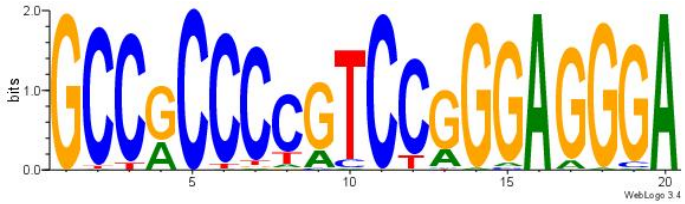

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0805996

Alignment:

```
GTAACACTCACCGCGARGGT
----CCCTCACTGCCCGGGG
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

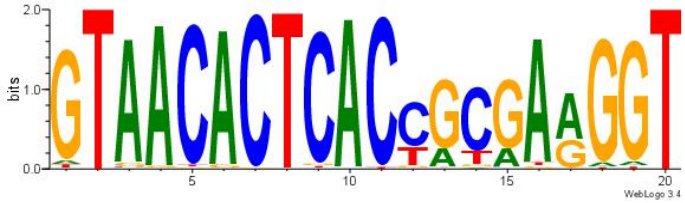

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

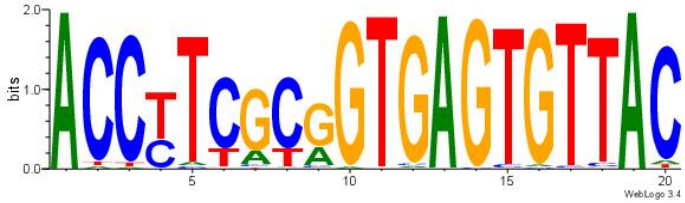

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.090189

Alignment:

```
ACCCYGTCTGGGAGGTG
-CCCCGGGCAGTGAGGG
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

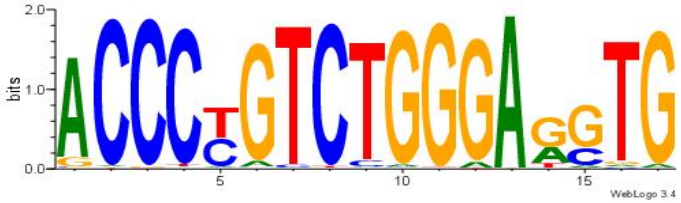

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

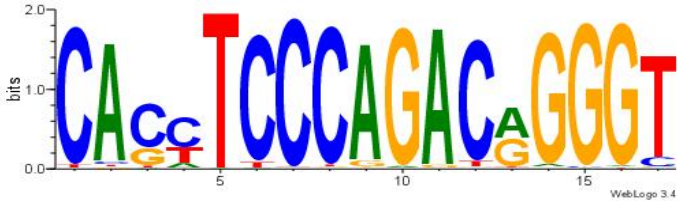

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0920974

Alignment:

```
CCGCGGGGCAGGGCTCG
-CCCCGGGCAGTGAGGG
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

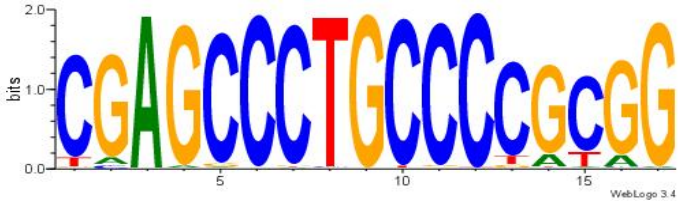

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

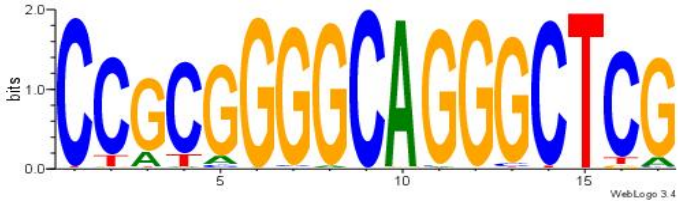

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.0934462

Alignment:

```
CCACCACAGCTCAAGGAGGC
CCCTCACTGCCCGGGG----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

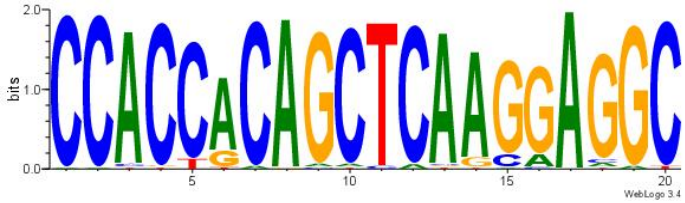

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

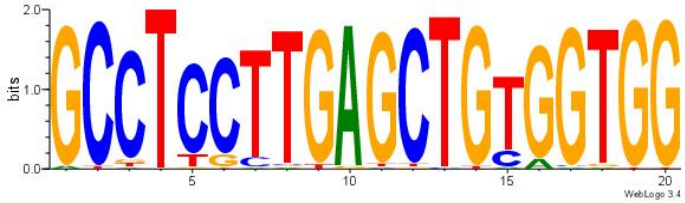

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.0943503

Alignment:
CCTGCCATTGCYSAGGCTTG
-CCCTCACTGCCCGGGG---

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

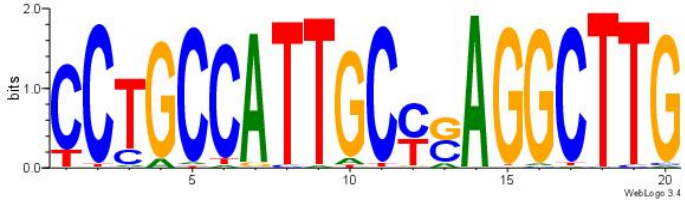

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

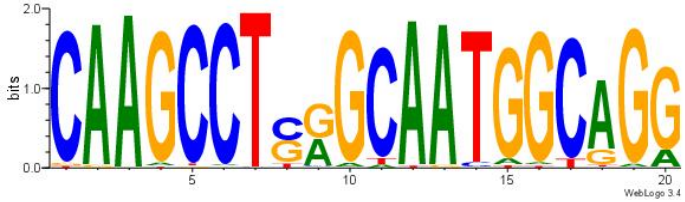

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0980899

Alignment:
AGGACTGAGGGTGCCYRGGG
----CCCTCACTGCCCGGGG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

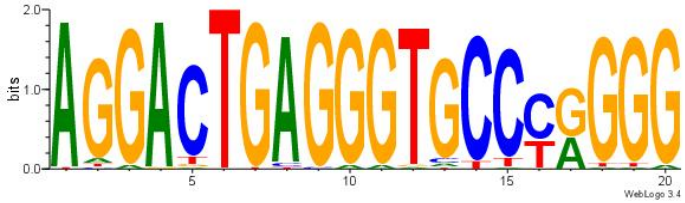

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

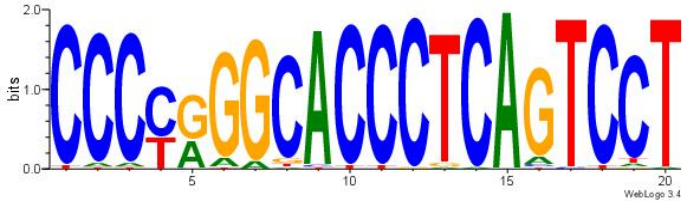

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.098205

Alignment:

```
CTTGCGCTTCCCRRGTGA
CCCTCACTGCCCGGGG--
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

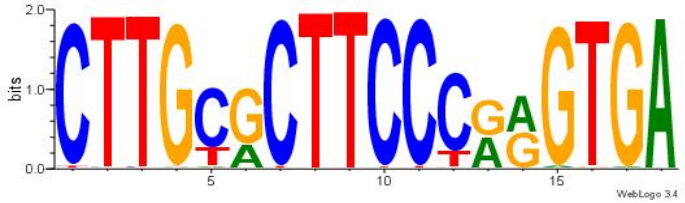

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

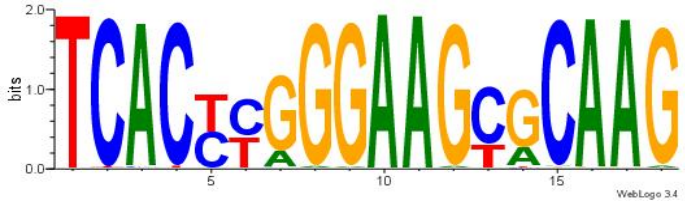

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0983566

Alignment:

```
CGCCCCGTCTGGGAAGTG
-CCCCGGGCAGTGAGGG-
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

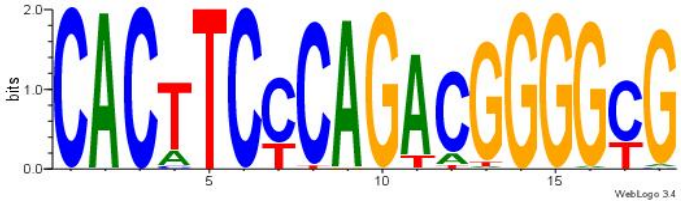

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

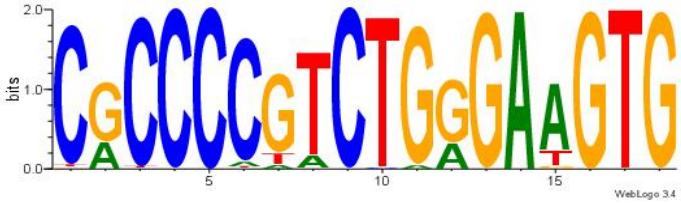

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.104393

Alignment:
AAGCTCGAACTGGGTGGAGC
---CCCTCACTGCCCGGGG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

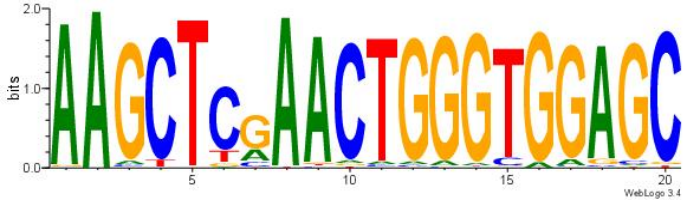

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

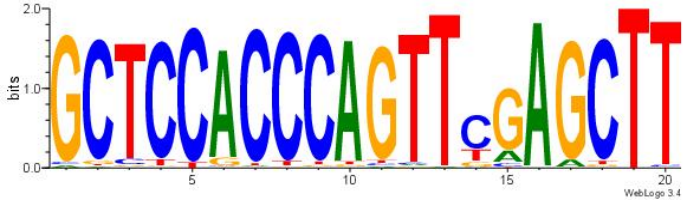

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.105173

Alignment:
CCCACGCCCACCCGGAACT
---CCCTCACTGCCCGGGG

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

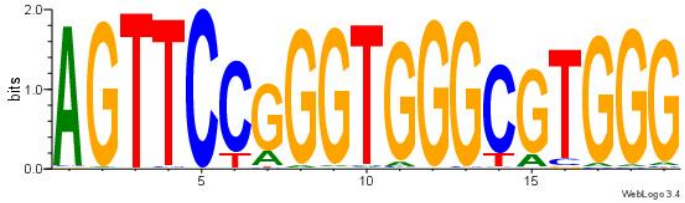

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

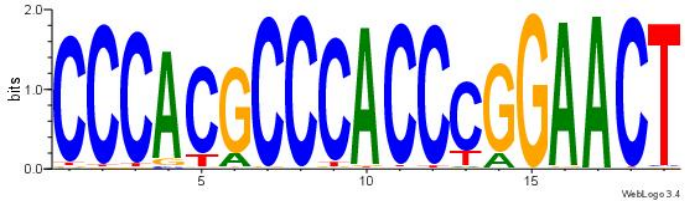

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.105816

Alignment:

```
ACATCCCAGACGATGGGCG
CCCCGGGCAGTGAGGG---
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

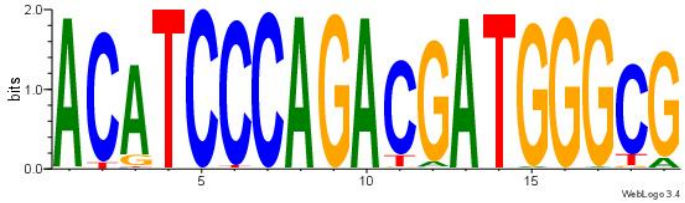

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

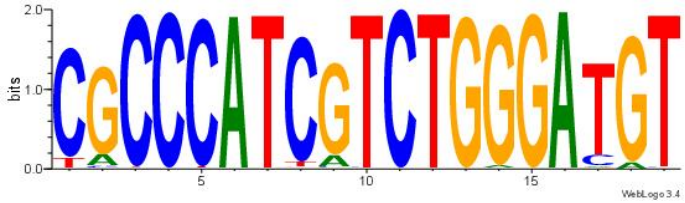

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.106432

Alignment:

```
GGGCTCCCACAGTGCAGCGG
---CCCTCACTGCCCGGGG-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

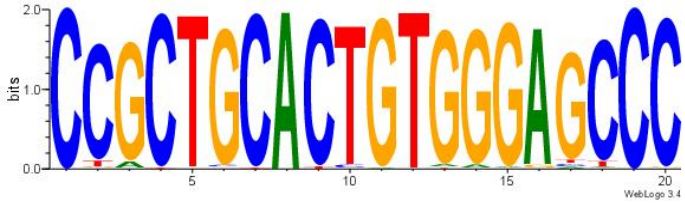

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

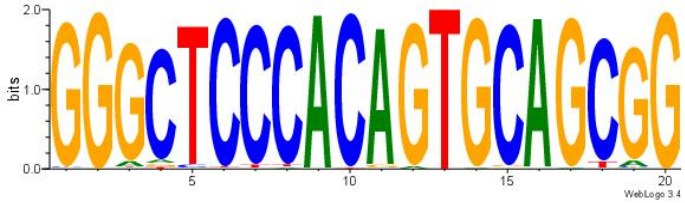

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.107451

Alignment:
ATTAGCYRGGCRTGGTGGC
CCCCGGGCAGTGAGGG---

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

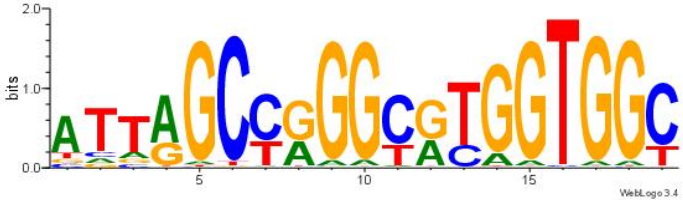

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

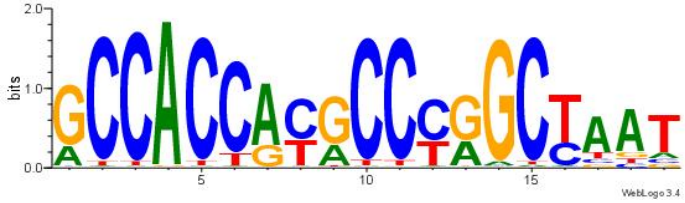

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.109483

Alignment:
AACAACASACACTGGGGCCT
-CCCTCACTGCCCGGGG---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

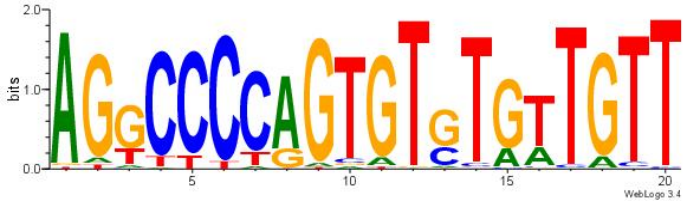

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

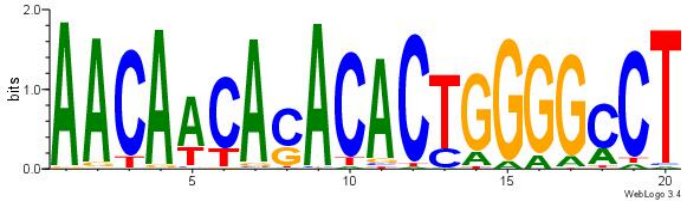

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.112065

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
--CCCCGGGCAGTGAGGG--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

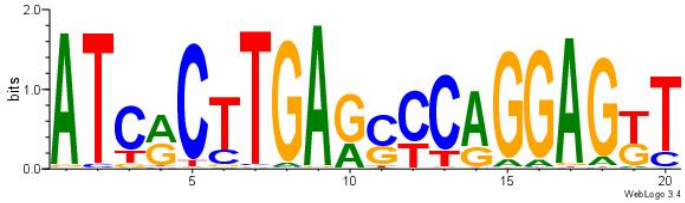

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

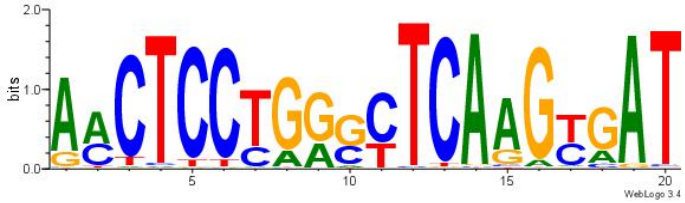

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.113585

Alignment:

```
CTGGCCCTCAATGGTTAAAC
----CCCTCACTGCCCGGGG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

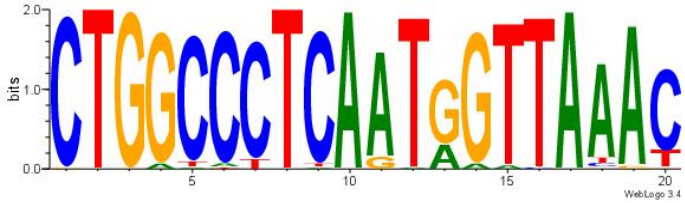

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

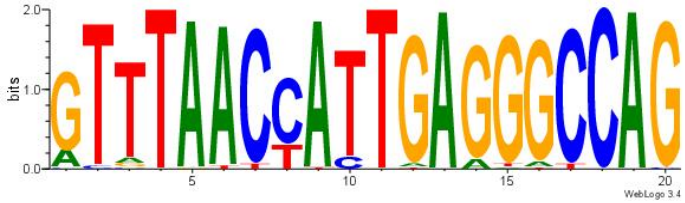

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.114051

Alignment:
TGCCCAGTCTGGAAAGTG
-CCCCGGGCAGTGAGGG-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

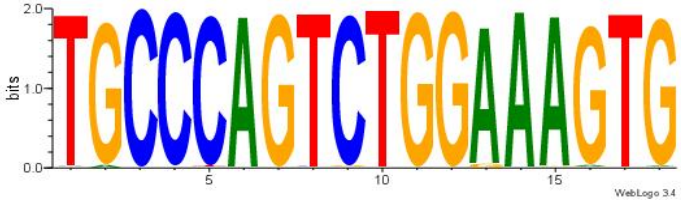

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

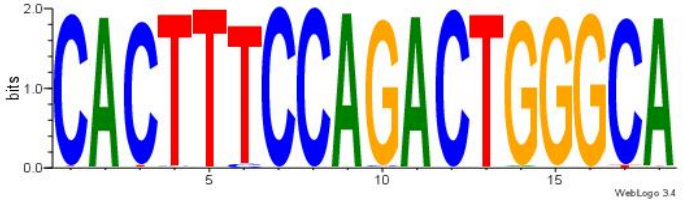

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.114297

Alignment:
CGAGCCTCCCCGAYGAGCGC
---CCCTCACTGCCCGGGG-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

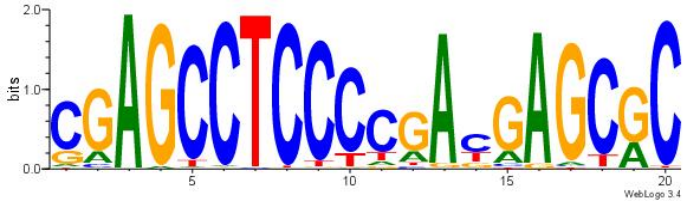

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

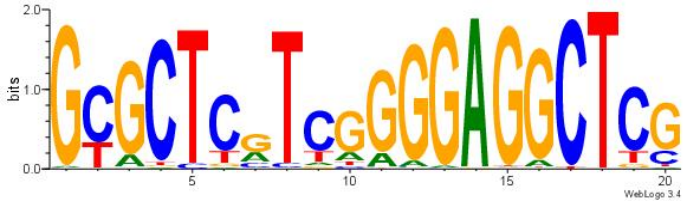

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.115411

Alignment:

```
GCGMGCGGGAACCGGGGCT
--CCCCGGGCAGTGAGGG-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

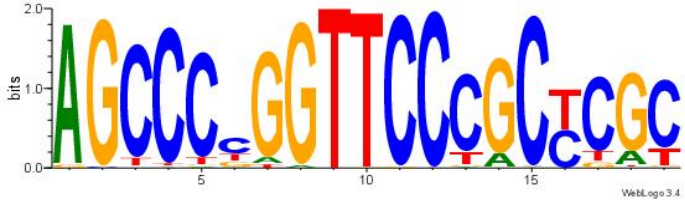

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

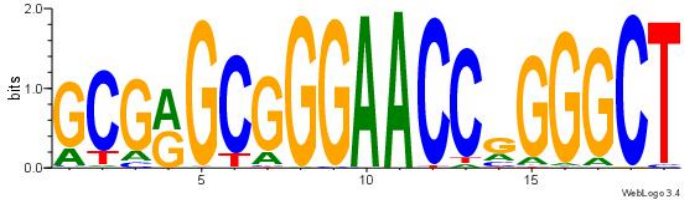

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.115524

Alignment:

```
AAGACCTTCCAGTGGGACAA
--CCCCGGGCAGTGAGGG--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

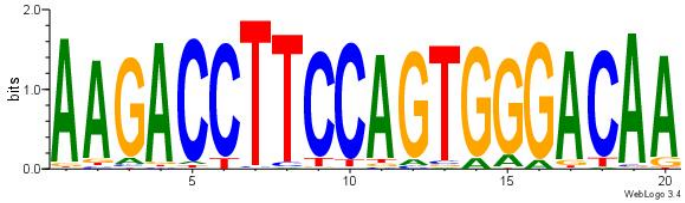

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

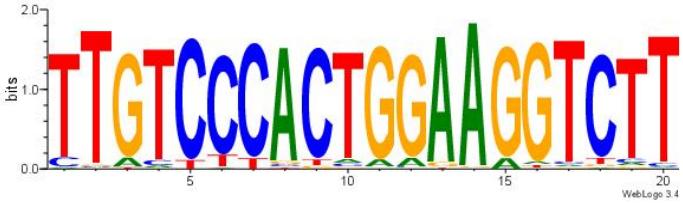

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.116454

Alignment:
CMTAGYACAGTGCCTGGCAC
CCCCGGGCAGTGAGGG----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

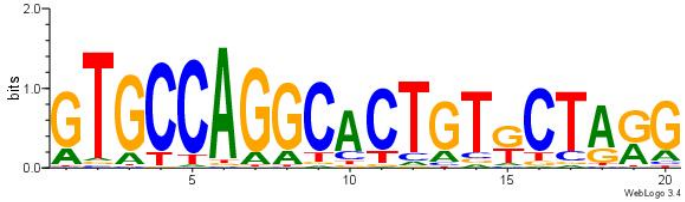

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

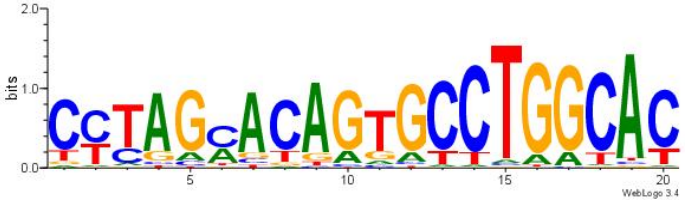

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.116579

Alignment:
AGCTCCCAGCGTGAGCGACG
CCCTCACTGCCCGGGG----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

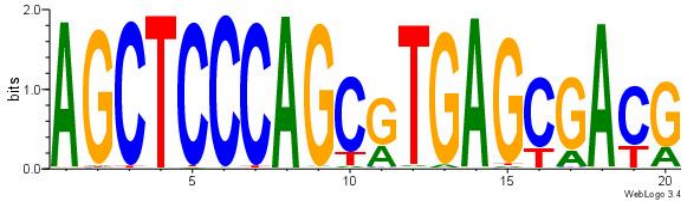

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

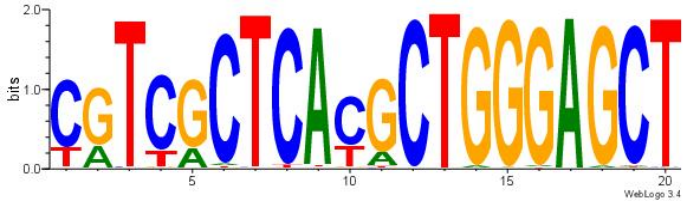

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.117098

Alignment:

```
GGATTTMKGACTTGCATGGG
----CCCTCACTGCCCGGGG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

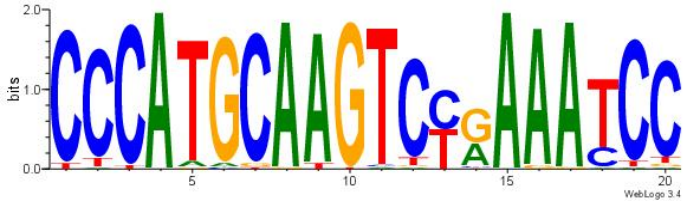

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

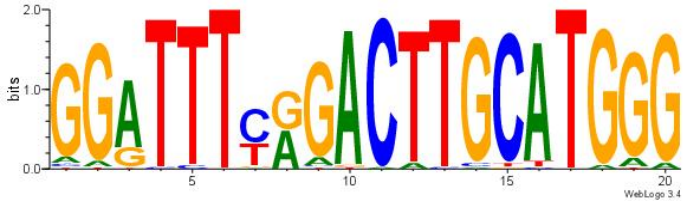

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.117651

Alignment:

```
AGCCYCTGGYAACCAYYAWT
--CCCCGGGCAGTGAGGG--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

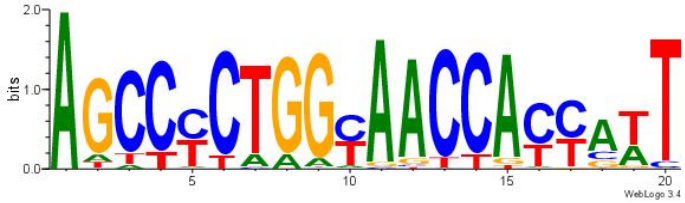

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

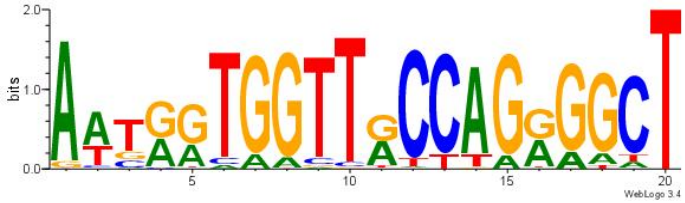

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.118138

Alignment:
AGGASCSTCYSWGCCMGGY
CCCCGGGCAGTGAGGG---

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

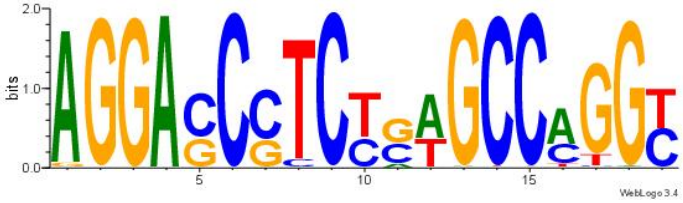

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

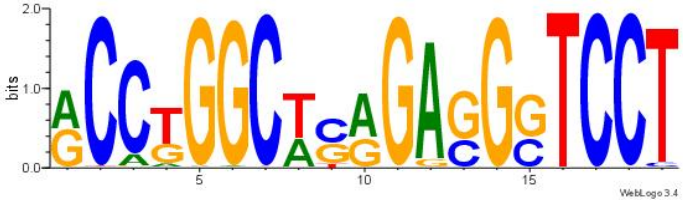

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.118385

Alignment:
AGTGACCCGATTTTCCAGGT
CCCTCACTGCCCGGGG----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

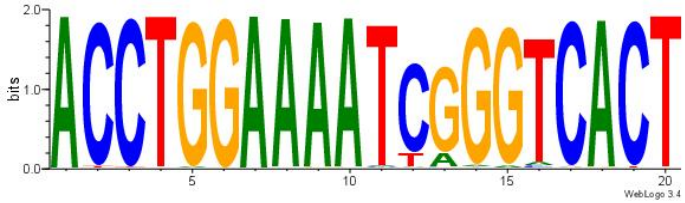

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

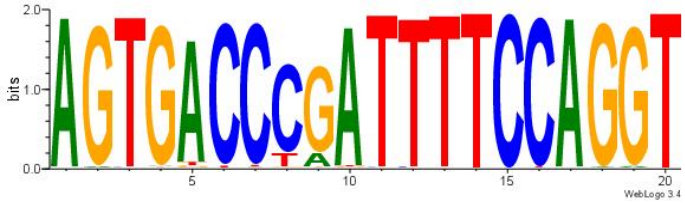

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.118849

Alignment:

```
CTTTCTGGGCTGGCCAAGG
CCCTCACTGCCCGGGG---
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

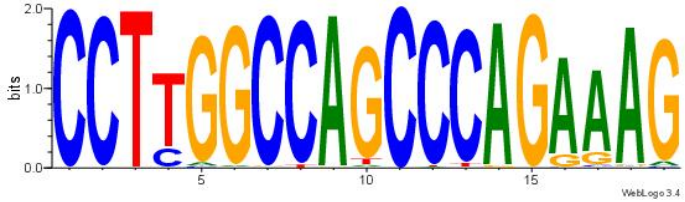

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

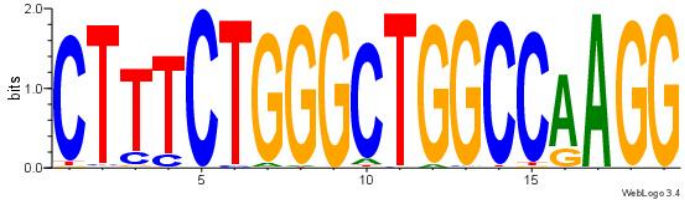

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.119335

Alignment:

```
GCCTCTCCCTCCACACCTCC
--CCCTCACTGCCCGGGG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

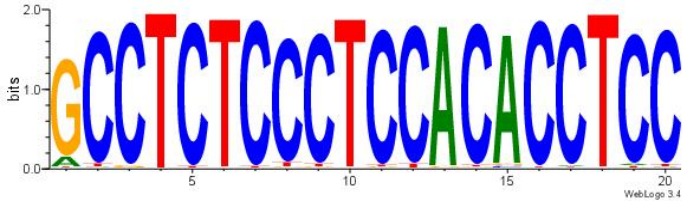

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

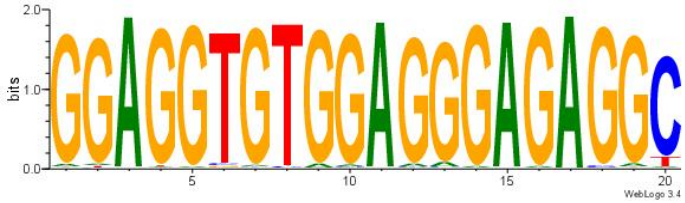

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.122618

Alignment:
GTGGCCCTCTTCTCACAGCT
----CCCTCACTGCCCGGGG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

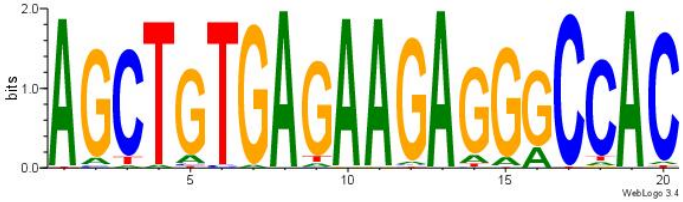

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

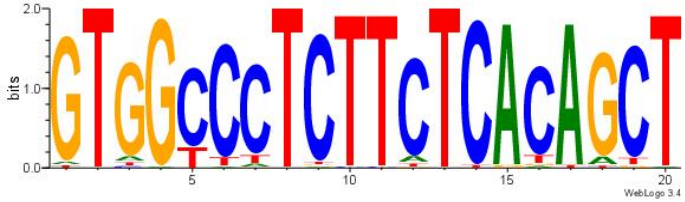

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.122883

Alignment:
ACCGAGMKMGCAGCTTCGGG
----CCCTCACTGCCCGGGG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

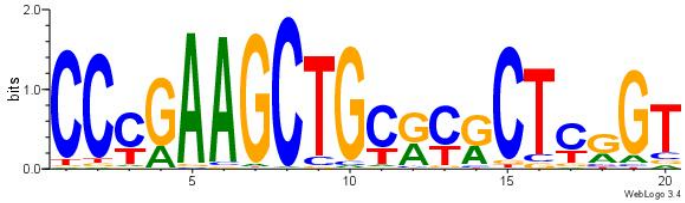

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

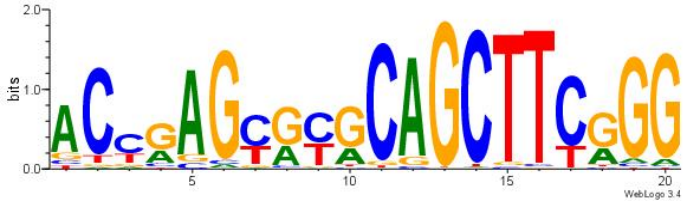

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.123037

Alignment:

```
MTCCTCCAGACCCCAGAATG
--CCCTCACTGCCCGGGG--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

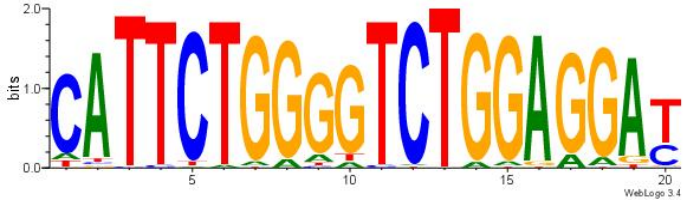

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

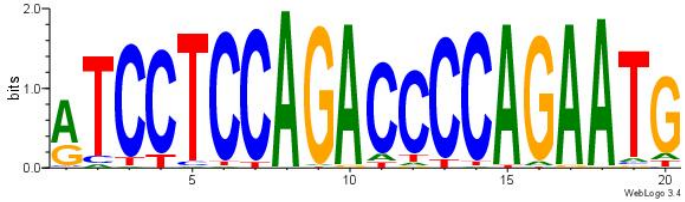

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.123727

Alignment:

```
CRTGAGCCACYGYRCCYGGC
---CCCTCACTGCCCGGGG-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

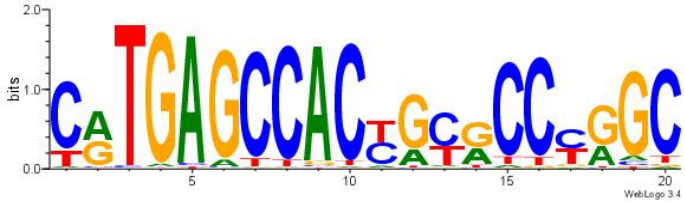

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

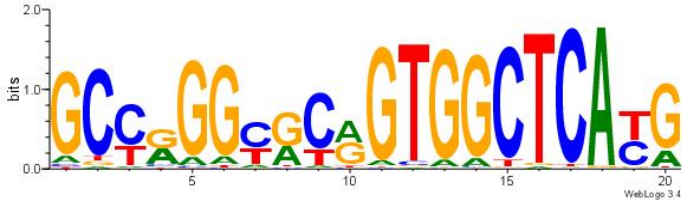

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.124956

Alignment:
TCKMGCCACTGCACTCCAGC
--CCCTCACTGCCCGGGG--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

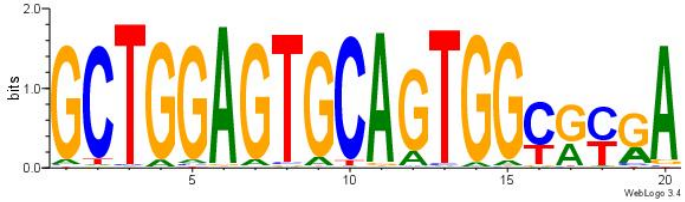

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

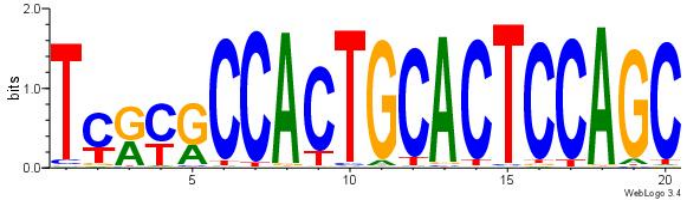

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.126136

Alignment:
AGCTCMKCCTCCTGTCAGAT
----CCCCGGGCAGTGAGGG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

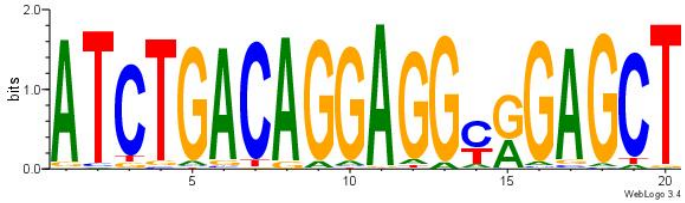

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

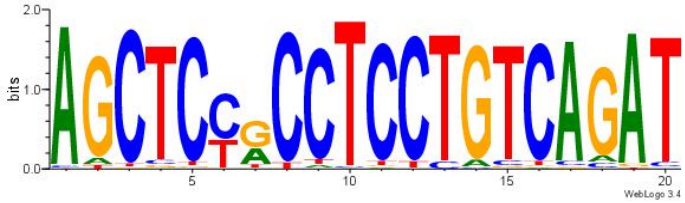

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.12678

Alignment:

```
AGAGCTCTGGCTGGCATCT
---CCCCGGGCAGTGAGGG
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

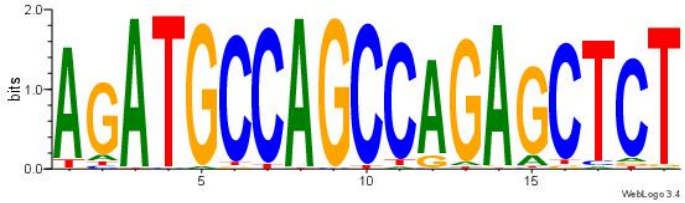

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

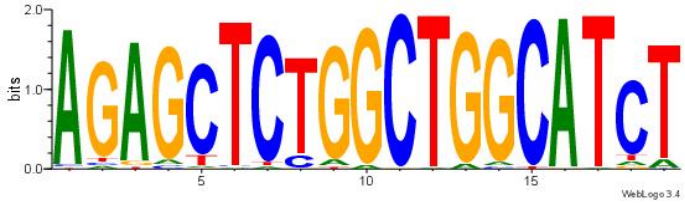

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.127363

Alignment:

```
TCCAAATGGGAGAAATTGGC
--CCCCGGGCAGTGAGGG--
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

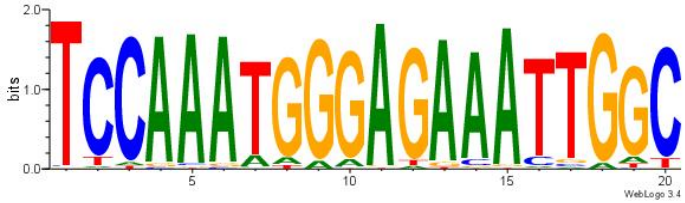

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

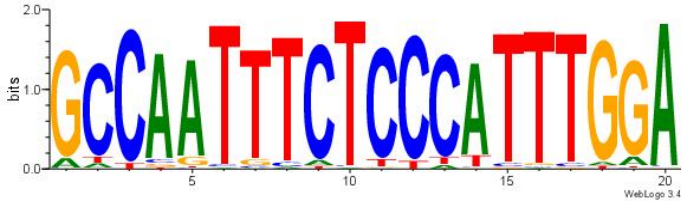

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.129636

Alignment:
AAGCAGGGCGAGGCATTGCC
--CCCCGGGCAGTGAGGG--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

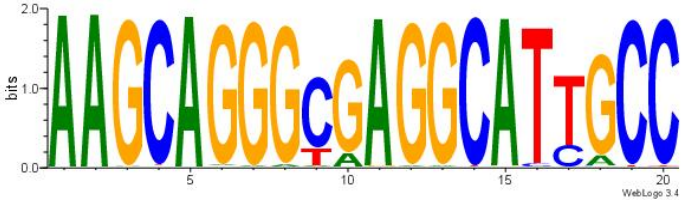

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

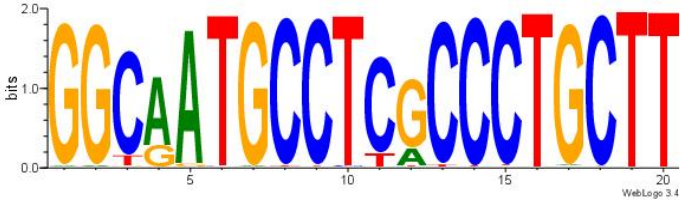

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.130171

Alignment:
ACTCCCTAGTGAGATGAACC
-CCCCGGGCAGTGAGGG---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

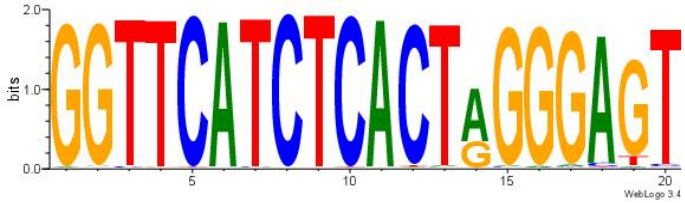

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

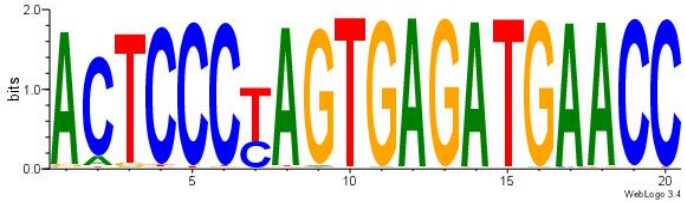

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.130508

Alignment:

```
AGCTAGAYACAGAGTGC
CCCCGGGCAGTGAGGG-
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

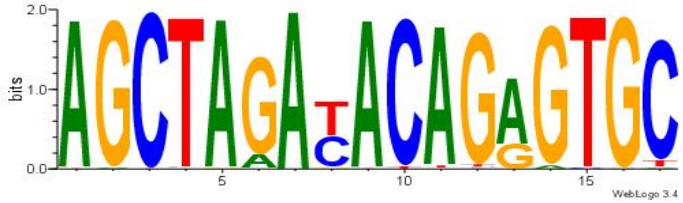

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

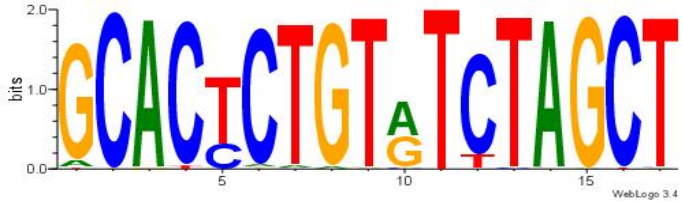

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.130606

Alignment:

```
GGATCCACTGGGTGAAGCCA
--CCCCGGGCAGTGAGGG--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

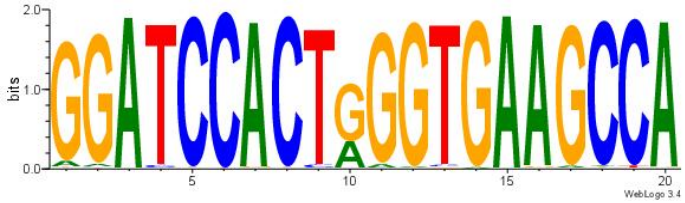

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

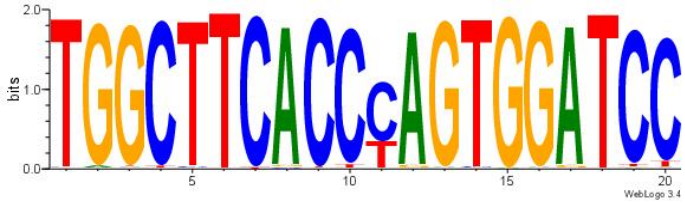

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.130662

Alignment:
CMCAGTTCACAATAGGGTT
CCCCGGGCAGTGAGGG---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

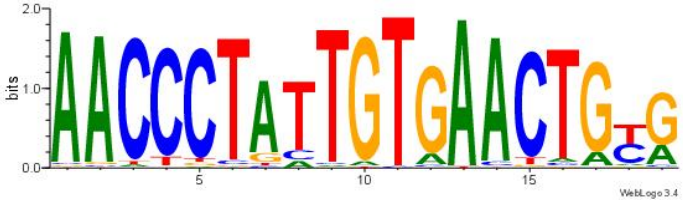

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

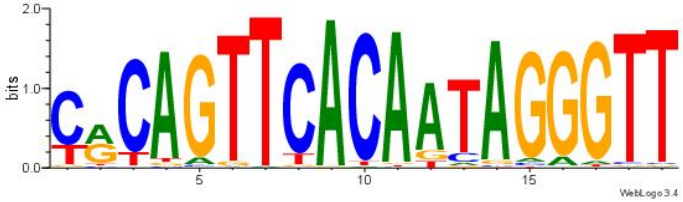

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.130835

Alignment:
GGTGGGGGGGTCAGCCCCC
CCCCGGGCAGTGAGGG---

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

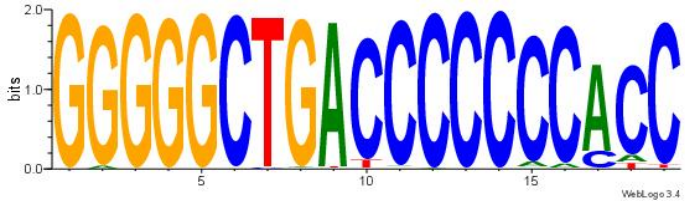

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

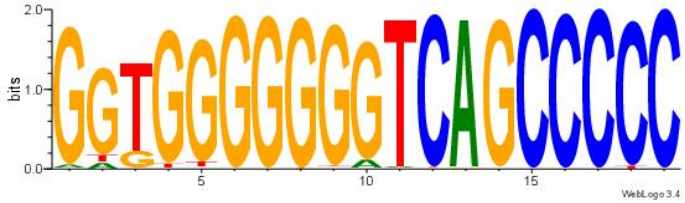

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.131569

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
CCCCGGGCAGTGAGGG----
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

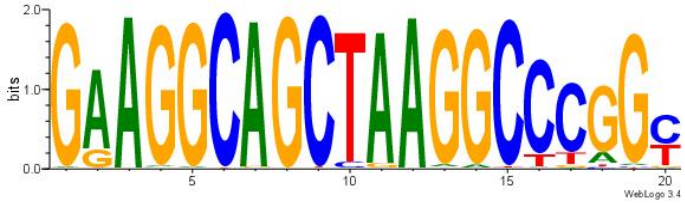

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

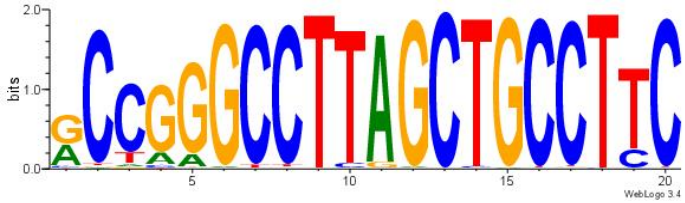

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.131922

Alignment:

```
GAATCCTGGGACAGCCTGT
--CCCCGGGCAGTGAGGG-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

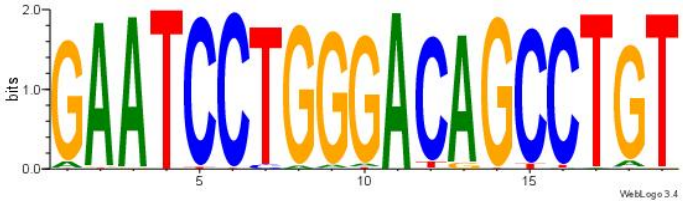

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

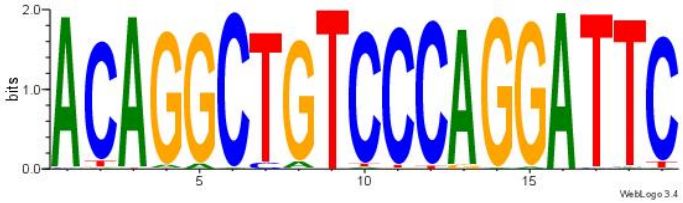

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.131956

Alignment:
TACCTGAGACTGGGTAATTT
CCCCGGGCAGTGAGGG----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

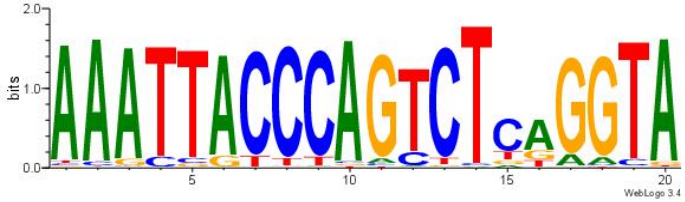

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

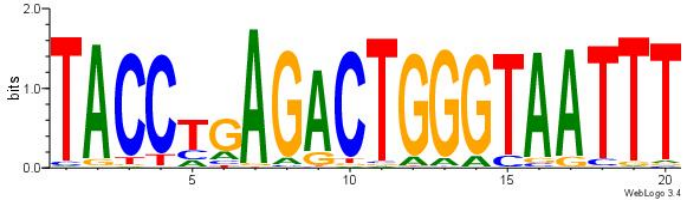

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.131981

Alignment:
CGCGGCGCTTGCGGGCCAGC
---CCCTCACTGCCCGGGG-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

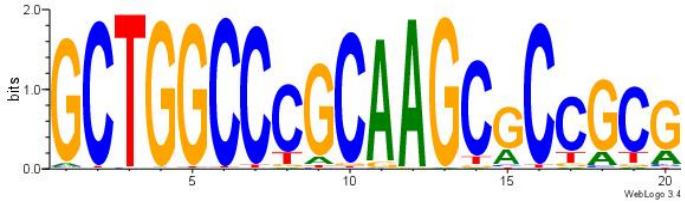

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

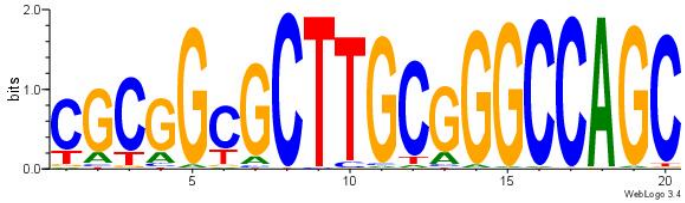

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.13218

Alignment:

```
TTGGTAGGATCCGTGATGCC
---CCCCGGGCAGTGAGGG-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

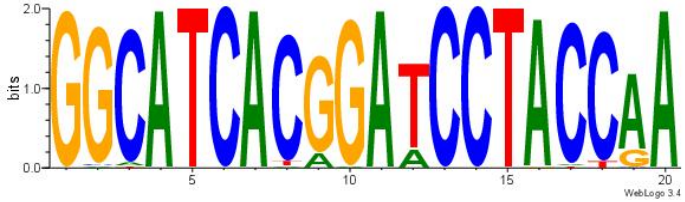

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

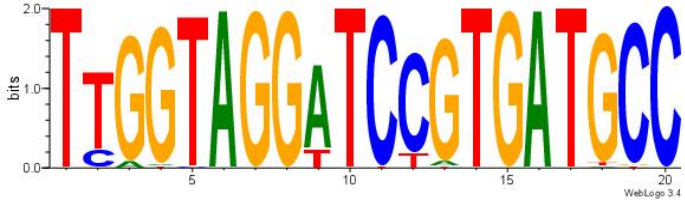

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.132579

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---CCCTCACTGCCCGGGG-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

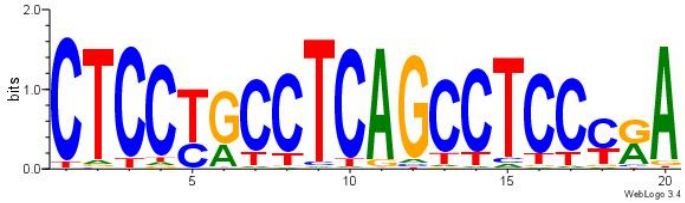

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

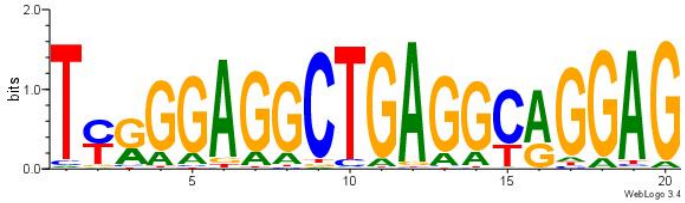

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.132583

Alignment:
CTGGGCTCCTGAGTCTGGTG
----CCCTCACTGCCCGGGG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

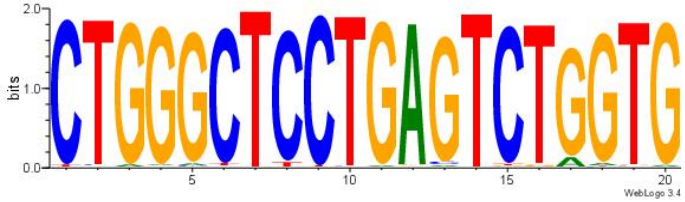

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

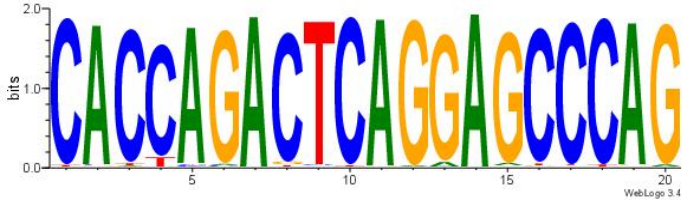

Dataset #: 1 Motif ID: 137 Motif name: Motif 137

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

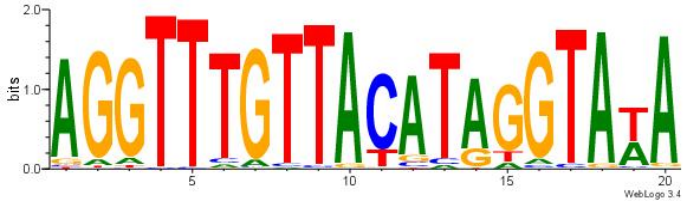

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

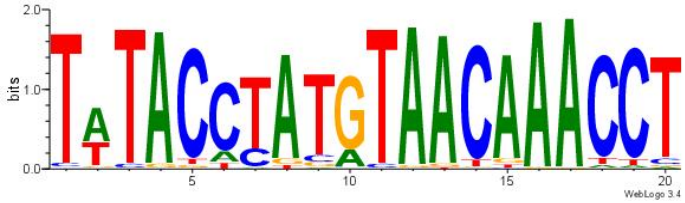

Best Matches for Motif ID 137 (Highest to Lowest)

Dataset #: 1
Motif ID: 357
Motif name: Motif 357

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114314

Alignment:
TAATTTTATGTGTCAACTTG
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

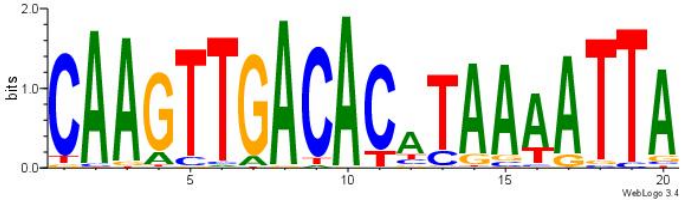

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

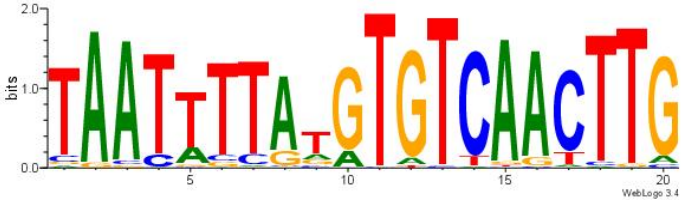

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118814

Alignment:
AAGTCCAAGATCAAGGTGYY
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

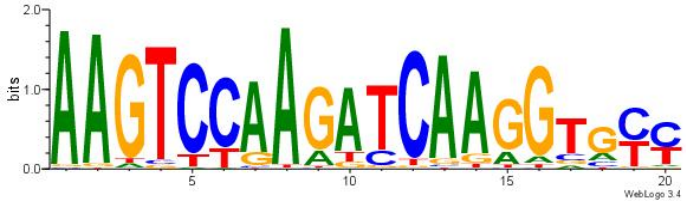

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

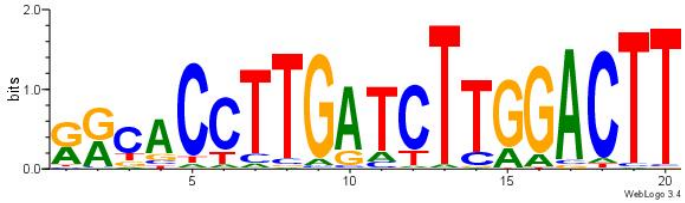

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120138

Alignment:
GGGATTGTAAATACACCAAT
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

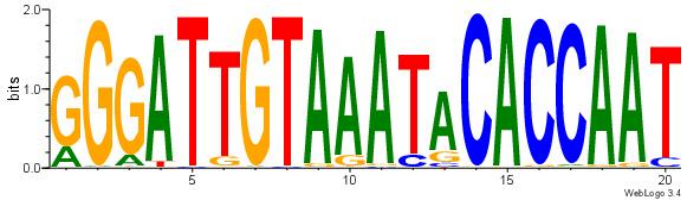

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120421

Alignment:
VMATTTAKTGAGCACCTACT
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

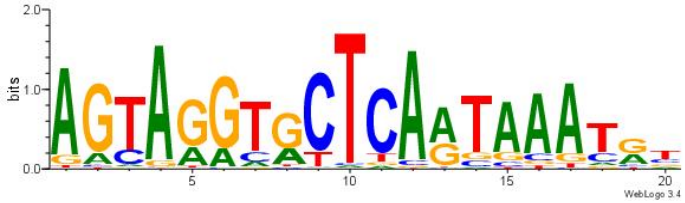

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

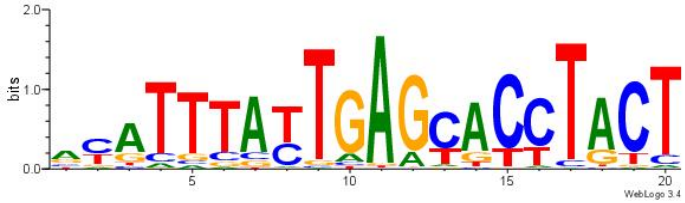

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122062

Alignment:

```
GTTATTAATTGGCCTAATTT
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

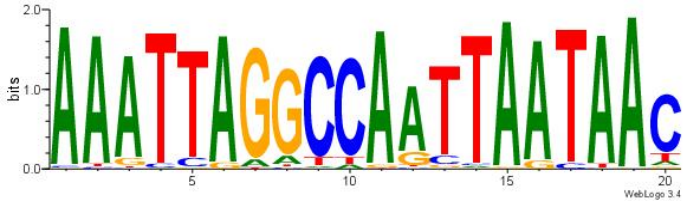

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.122668

Alignment:
GGATTTMKGACTTGCATGGG
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

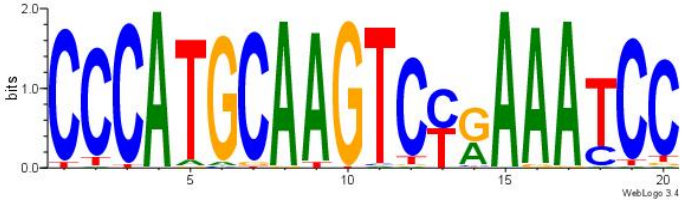

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

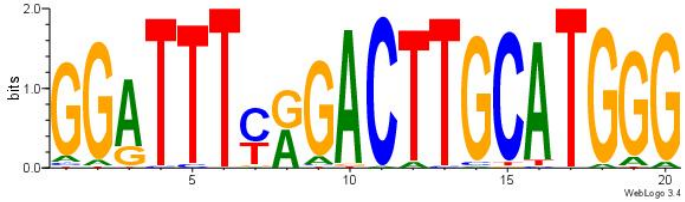

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.126532

Alignment:
AGCTGTGAGAAGAGGGCCAC
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

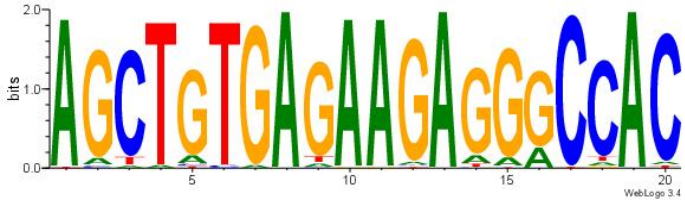

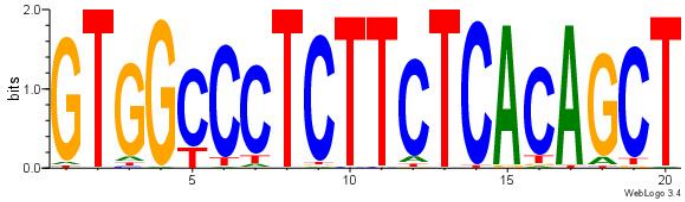

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129451

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

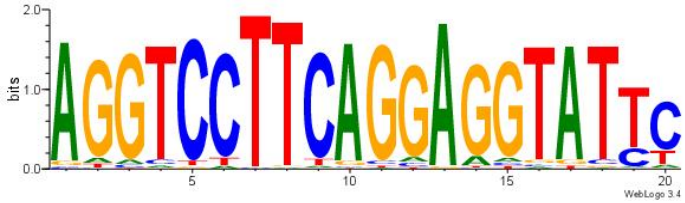

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

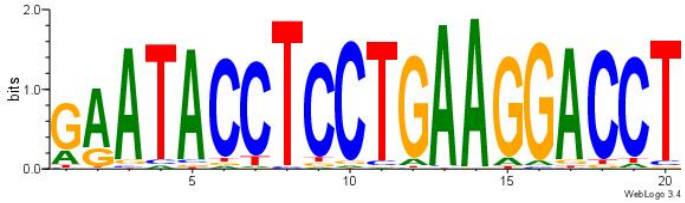

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13013

Alignment:

```
ATGATCCAGCAATYCCACTH
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

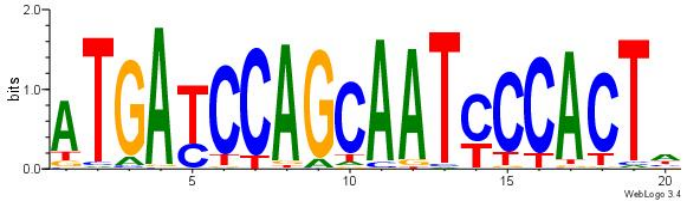

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

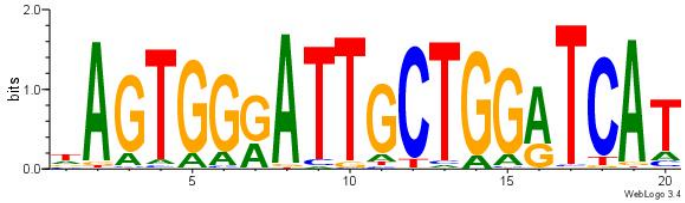

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.131884

Alignment:
ACTCCCTAGTGAGATGAACC
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

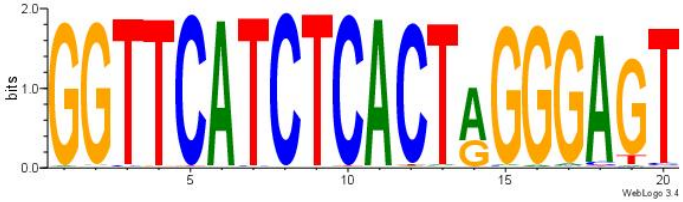

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

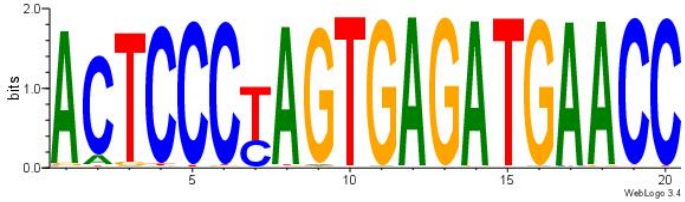

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132775

Alignment:
AAGACCTTCCAGTGGGACAA
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

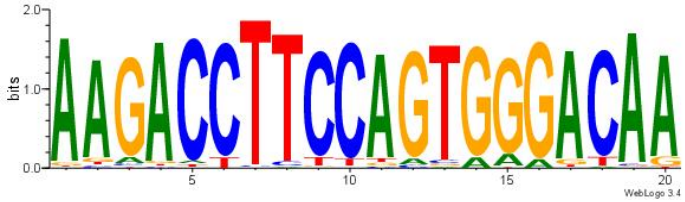

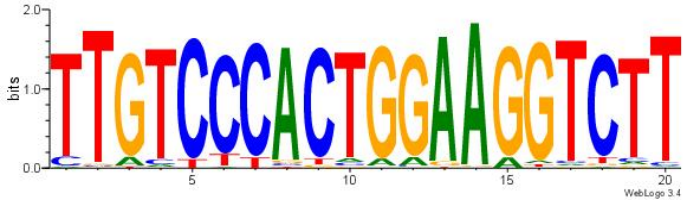

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13303

Alignment:
AWTKKTGGTTKCCAGKGGCT
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

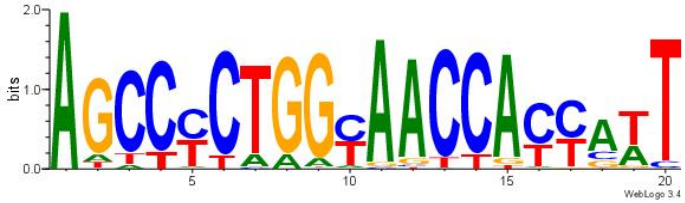

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

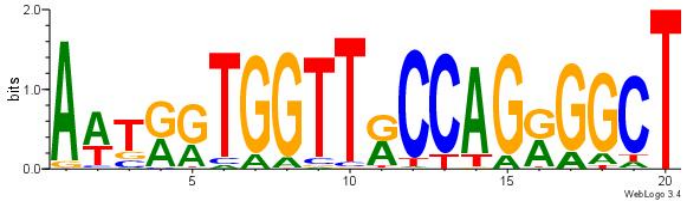

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133904

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

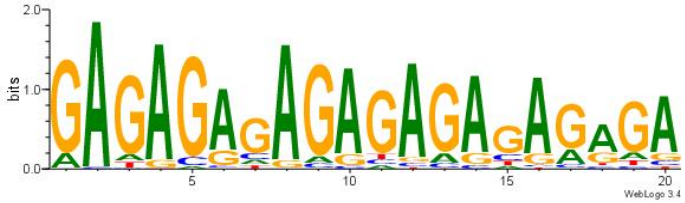

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

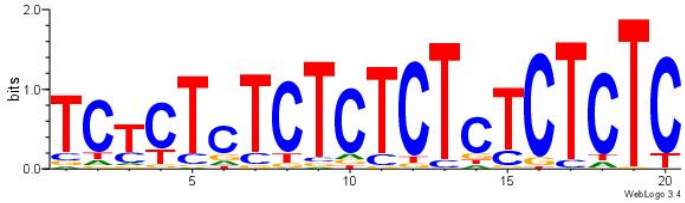

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134037

Alignment:
AGAGCCAAATCATGARTGAA
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

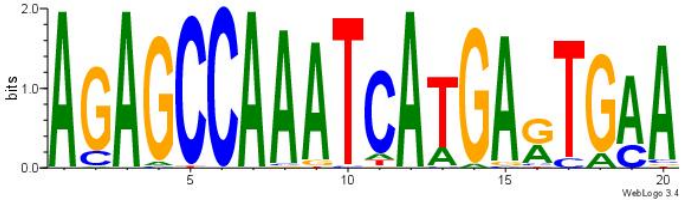

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

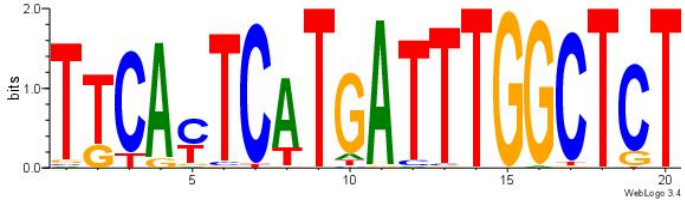

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134175

Alignment:
GTCTCWAMAAAAAAWAMAAA
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

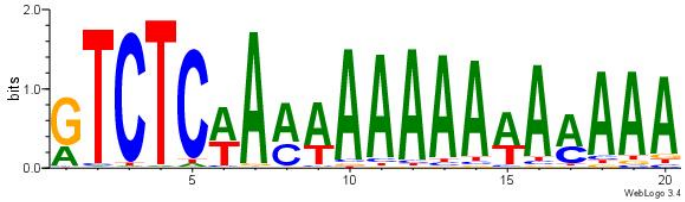

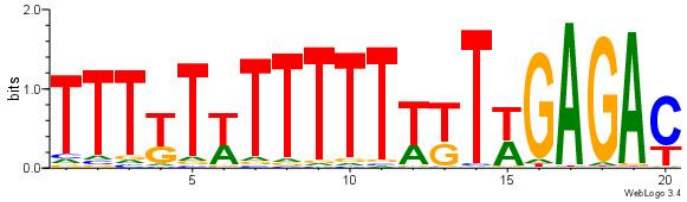

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.134766

Alignment:
MGTCTMKCTCTGTKGCCCAG
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

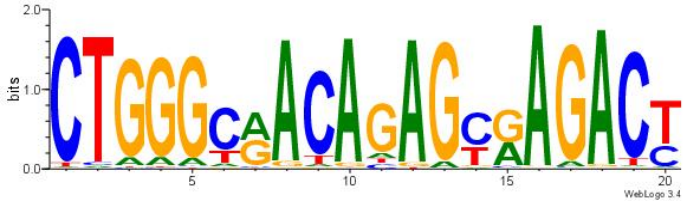

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

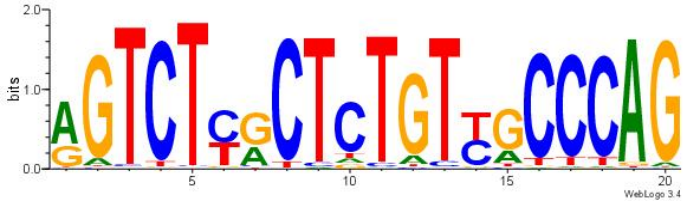

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135128

Alignment:
GGGTCAGGGAGTTCCCTTTC
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

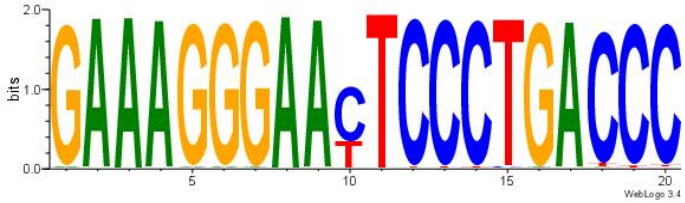

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

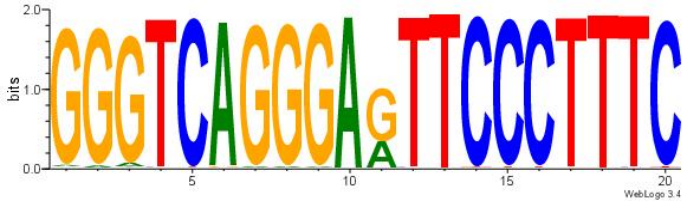

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.135314

Alignment:
GTGCCAGGCACTGTKCTARG
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

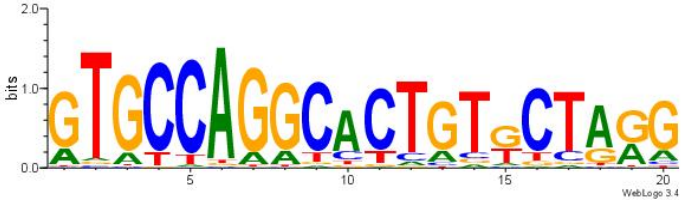

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

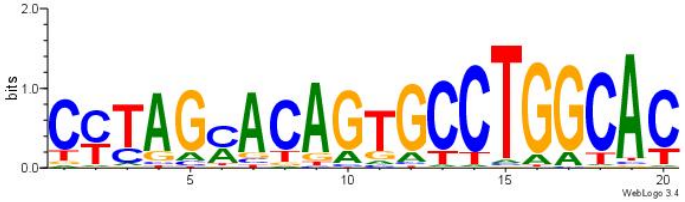

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140278

Alignment:
GAAACTGCTTTGTGATGTGT
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

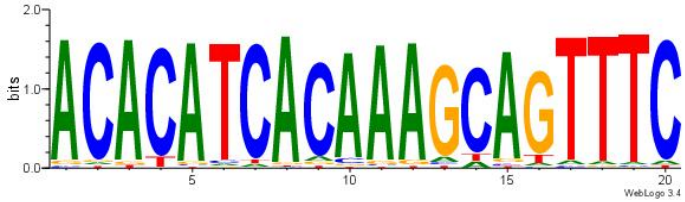

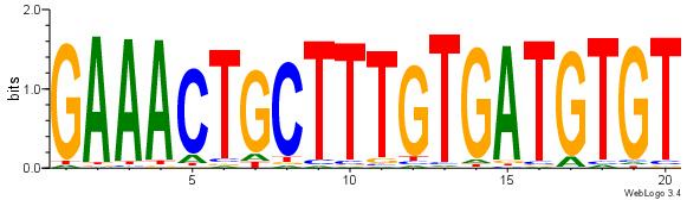

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140311

Alignment:

```
CAAGGGTATAYGAGTAGCTG
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

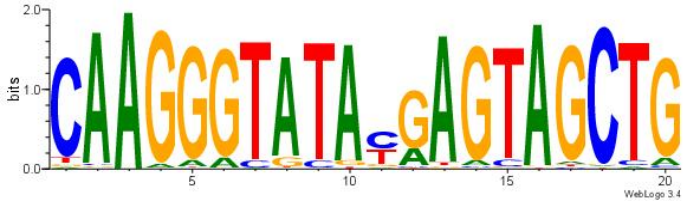

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

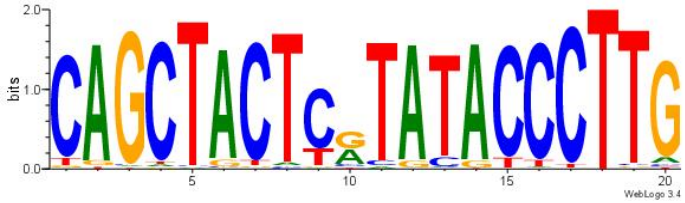

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141311

Alignment:

```
TGGCTTCACCCAGTGGATCC
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

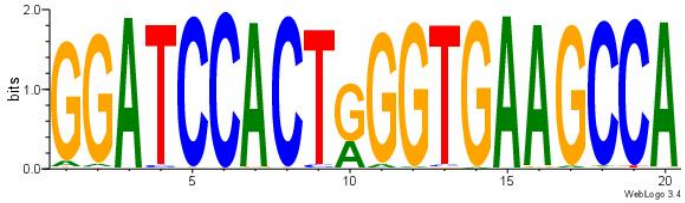

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

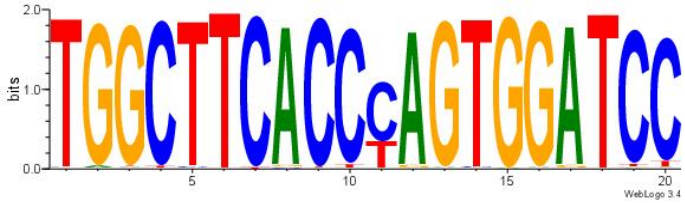

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141727

Alignment:
CAAGCCTSKGCAATGGCAGG
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

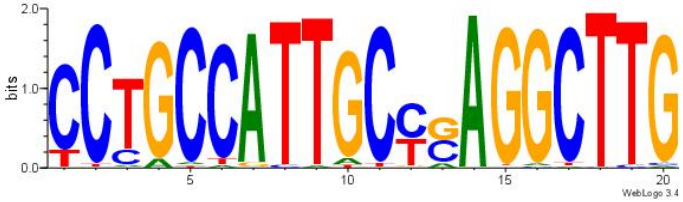

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

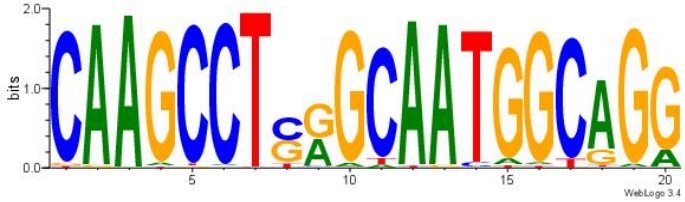

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142179

Alignment:
GCGCTCKTCGGGGAGGCTCG
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

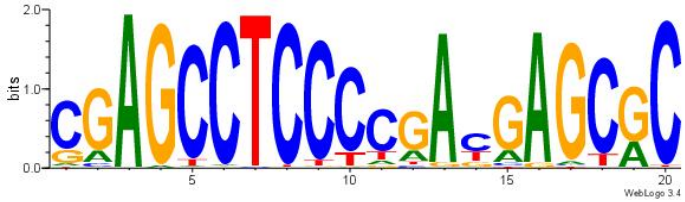

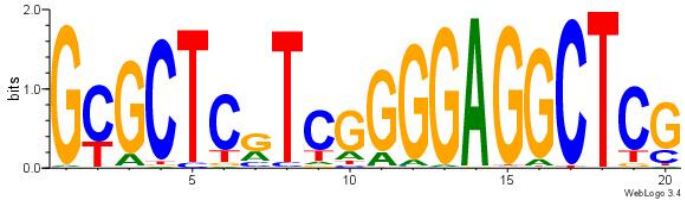

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142527

Alignment:

```
ATGGCTGAATAKTATTCCAT
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

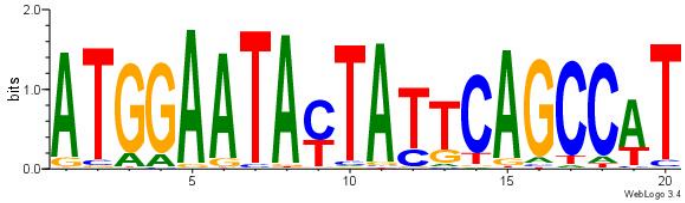

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

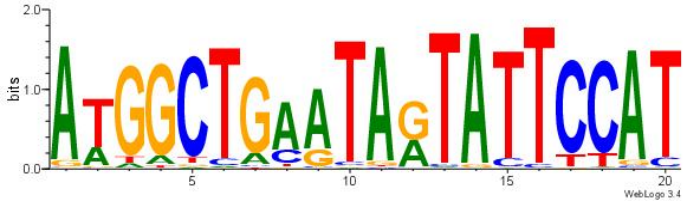

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142617

Alignment:

```
GCTGTGTGACCTTGGGCAAG
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

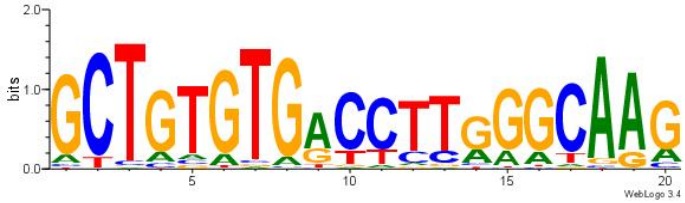

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

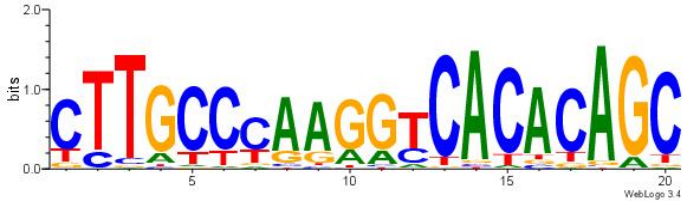

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.14376

Alignment:
GCACATGTAYCCYAGAACTT
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

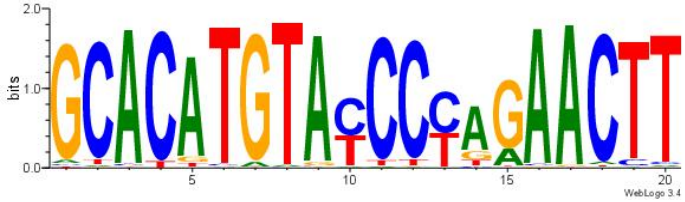

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

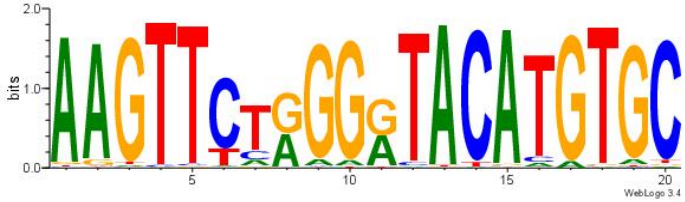

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143951

Alignment:
CACCAGGAGATTATATCCCR
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

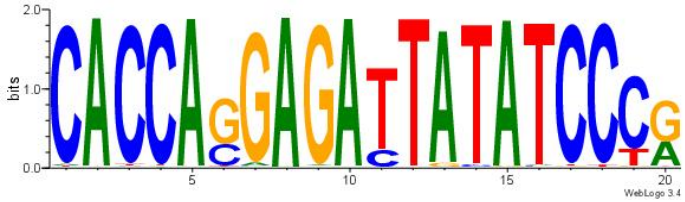

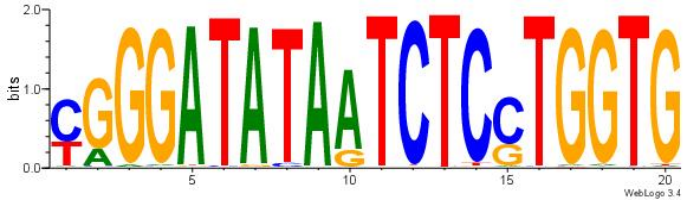

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14458

Alignment:

```
CATTCTGGGGTCTGGAGGAY
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

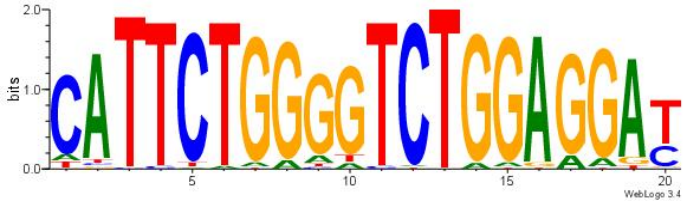

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

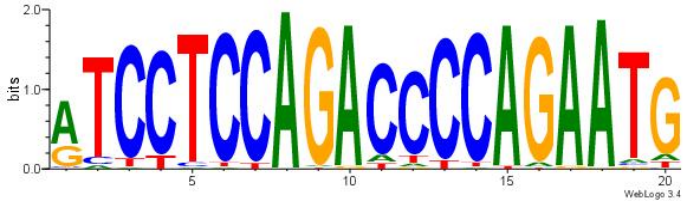

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14495

Alignment:

```
GCCAGTCACAAAARGACAMA
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

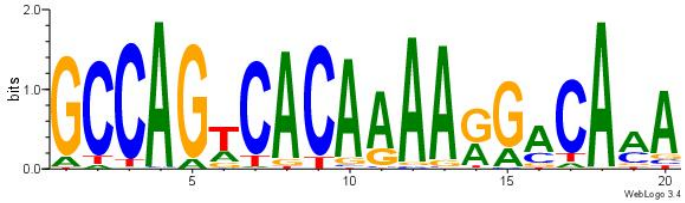

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

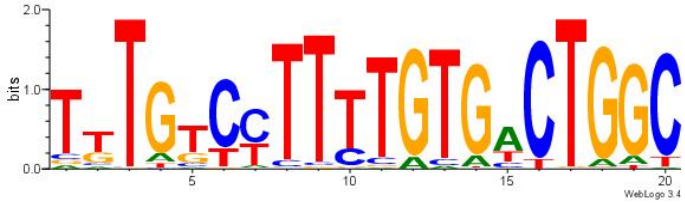

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145176

Alignment:
GACAGGAGATTAACACTGAG
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

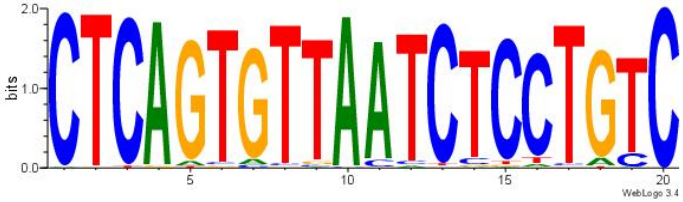

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

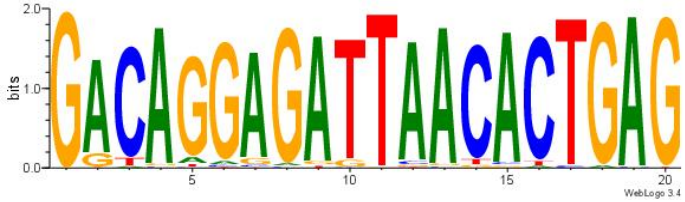

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145328

Alignment:
ATCRCTTGAGSYCAGGAGKT
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

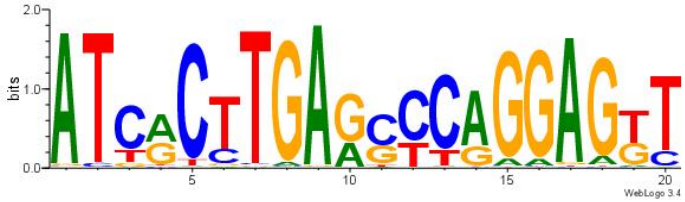

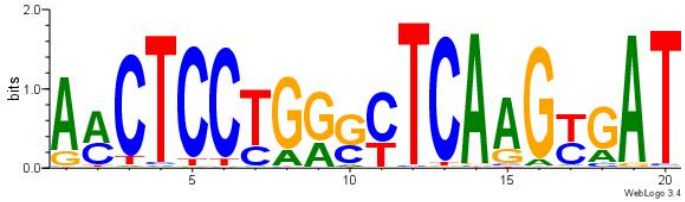

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147134

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

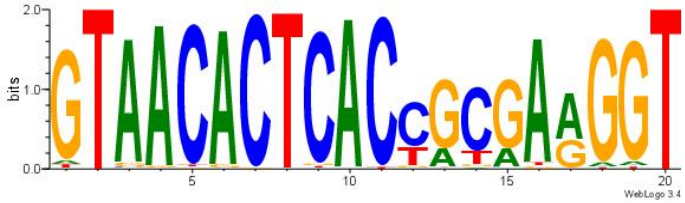

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

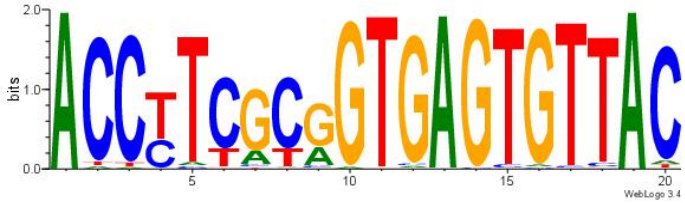

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147212

Alignment:

```
ACCCAATWTGTAGTCTTTTA
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

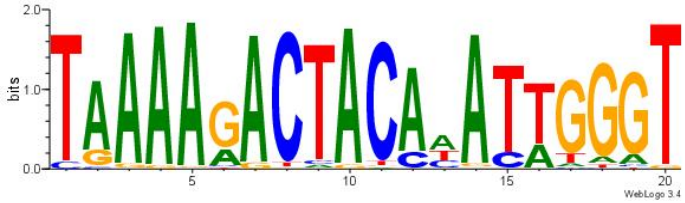

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

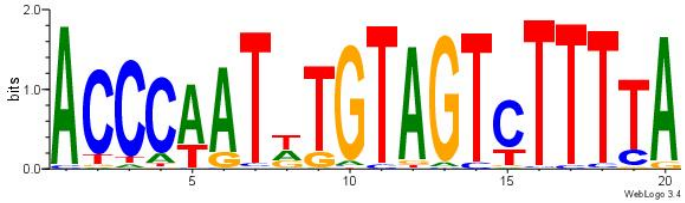

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148319

Alignment:
TAGATAATAGCTCCAGCTTT
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

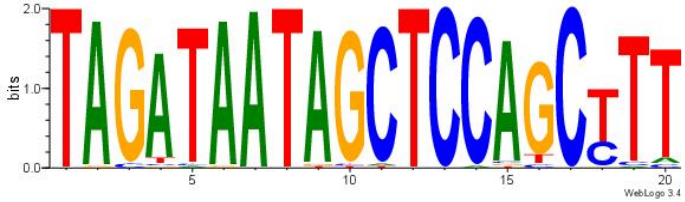

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

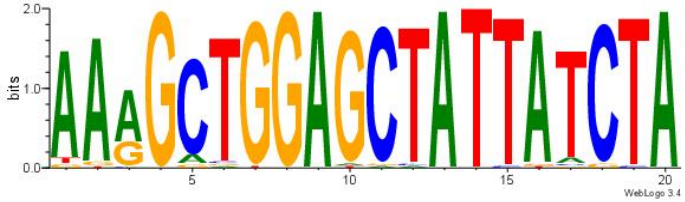

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148517

Alignment:
TCKMGCCACTGCACTCCAGC
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

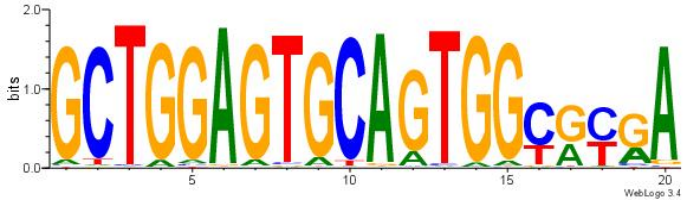

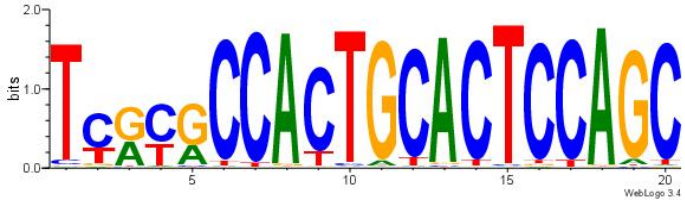

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148746

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

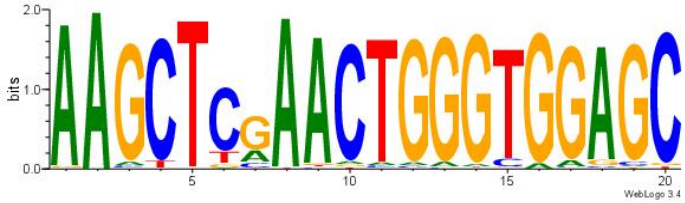

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

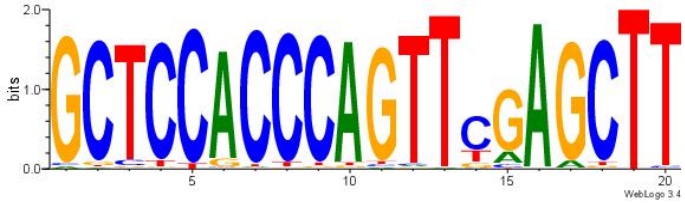

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148862

Alignment:
GTKTMTATMTACCACATTTT
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

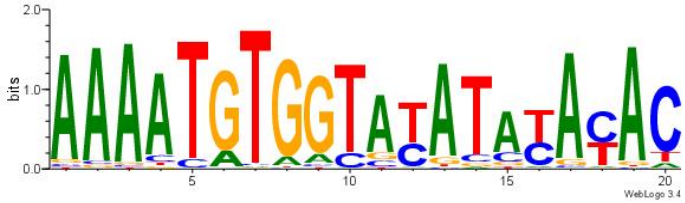

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

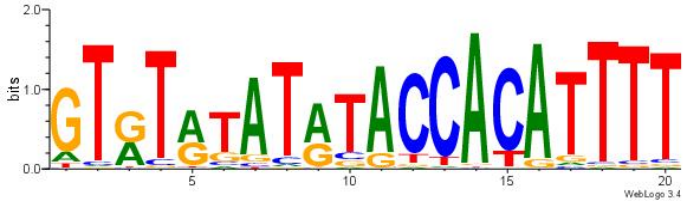

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148899

Alignment:
AAATTACCCAGTCTCAGGTA
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

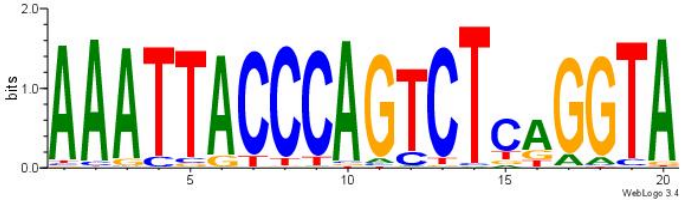

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

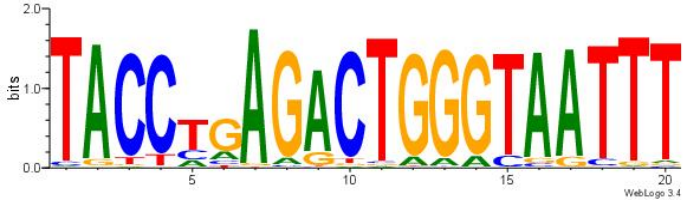

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149545

Alignment:
ATCTGACAGGAGGYRGAGCT
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

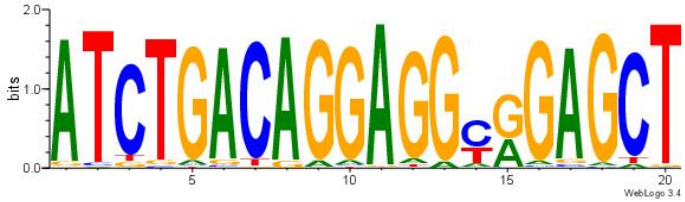

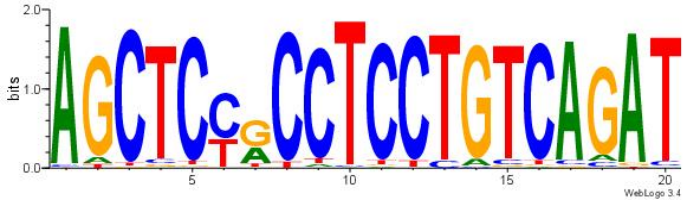

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149611

Alignment:
GGGAGGTGTCTCCCAGTCAG
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

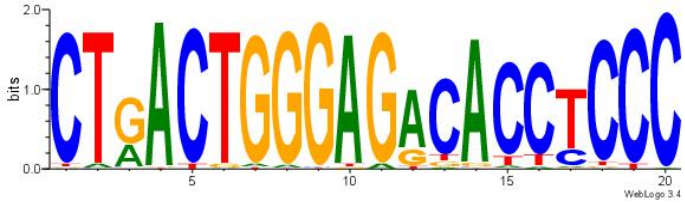

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

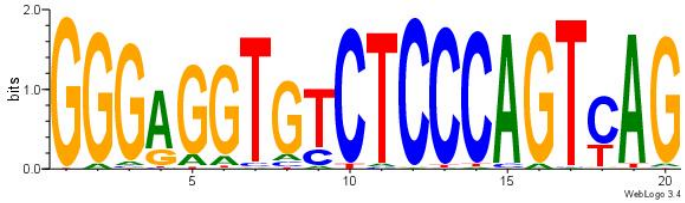

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150065

Alignment:
ATGTGGAGGTGGAAGACAGT
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

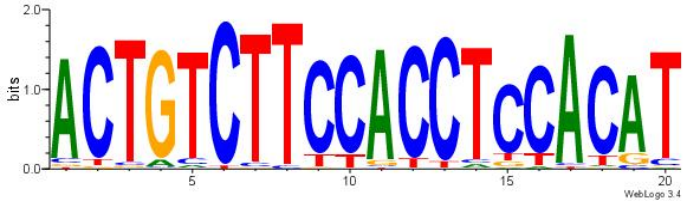

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

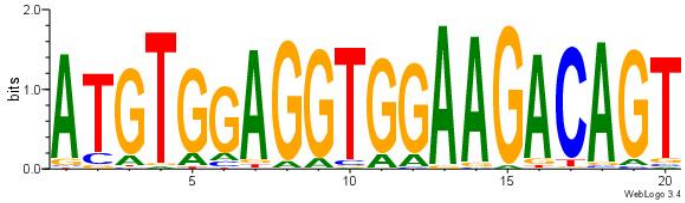

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152652

Alignment:
GGCACTGCTGGGGGACCCAG
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

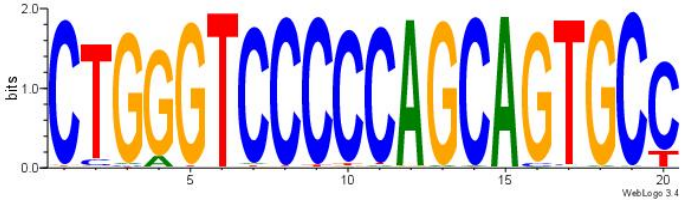

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

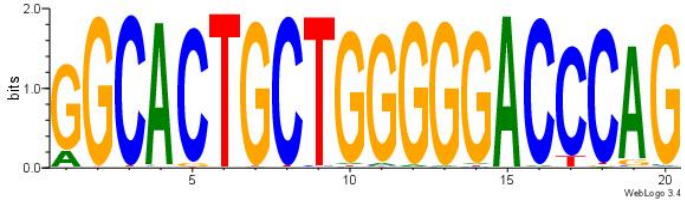

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152851

Alignment:
AGAAATCGAGCRCAGCGCCG
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

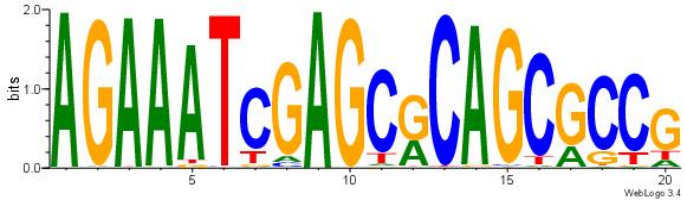

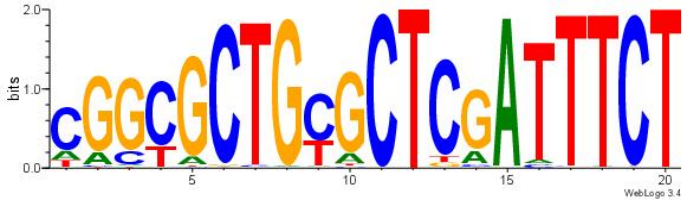

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152878

Alignment:

```
TCCAAATGGGAGAAATTGGC
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

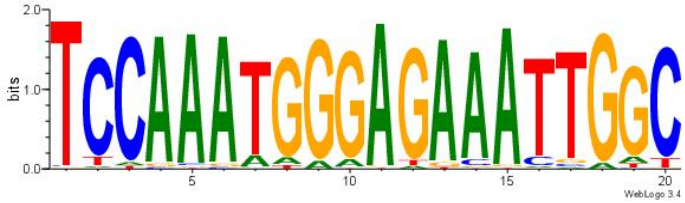

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

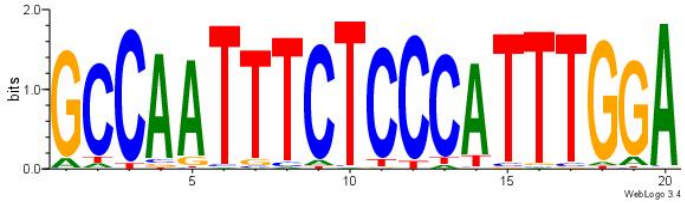

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153054

Alignment:

```
CGTCGCTCACGCTGGGAGCT
TWTACCTATGTAACAAACCT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

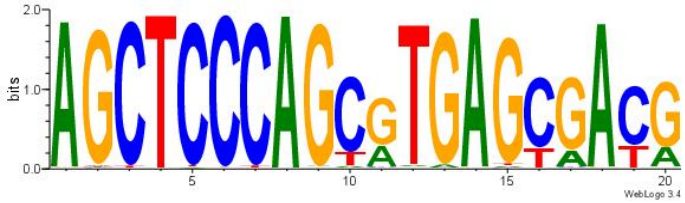

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

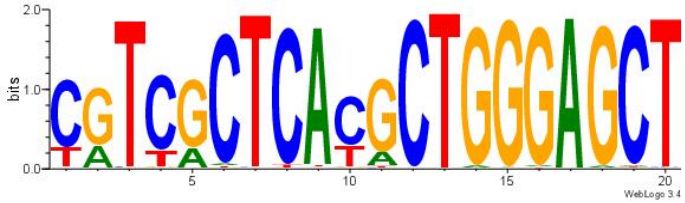

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153155

Alignment:
GCAAAKGACATGATYTCATT
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

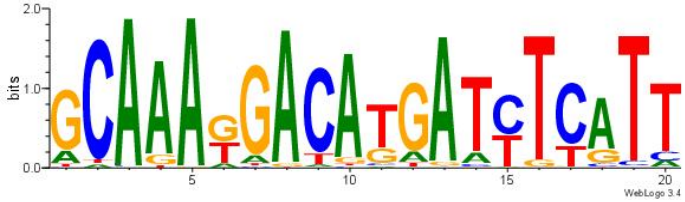

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

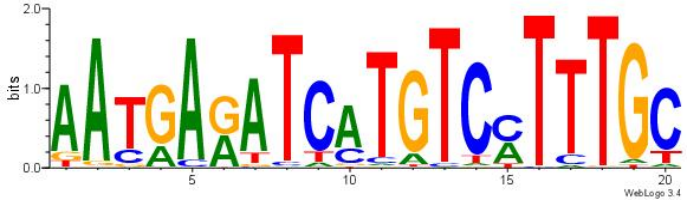

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154727

Alignment:
AAAAGTCCACAGTCCAAAGT
TWTACCTATGTAACAAACCT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

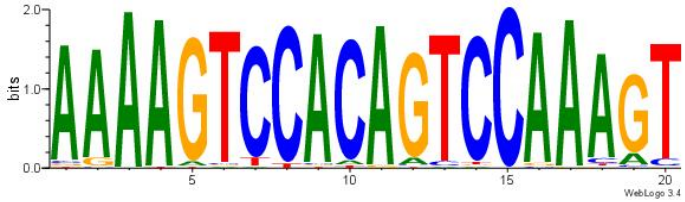

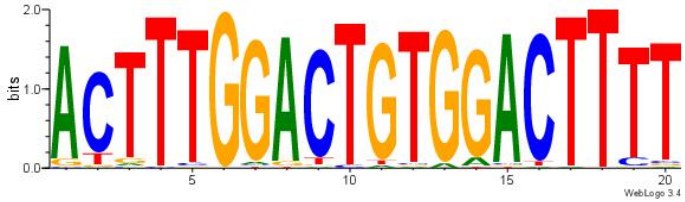

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155624

Alignment:

```
AGTGAGAACATRYRRTRTTT
AGGTTTGTTACATAGGTAWA
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

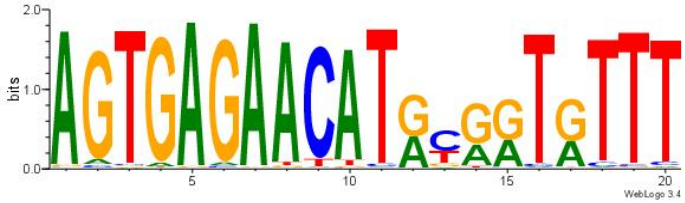

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

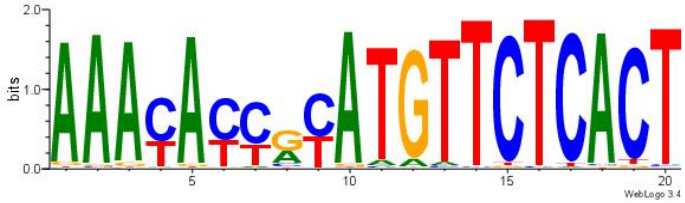

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155715

Alignment:

GTGTCKGGAGTTTGTTCCTT

TWTACCTATGTAACAAACCT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

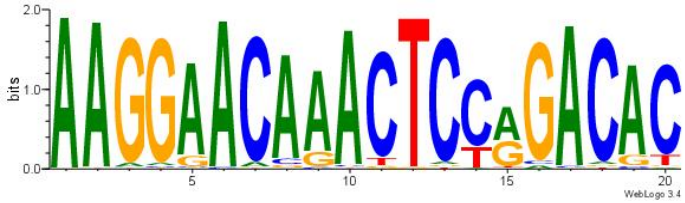

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

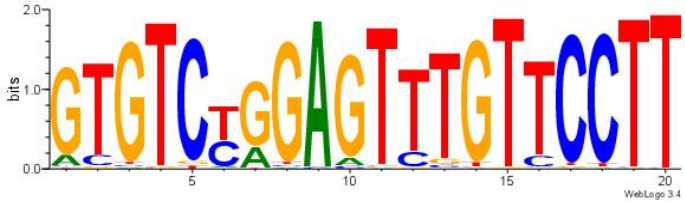

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155811

Alignment:
TTGGTAGGATCCGTGATGCC
AGGTTTGTTACATAGGTAWA

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

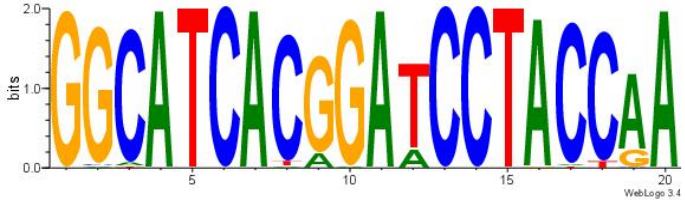

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

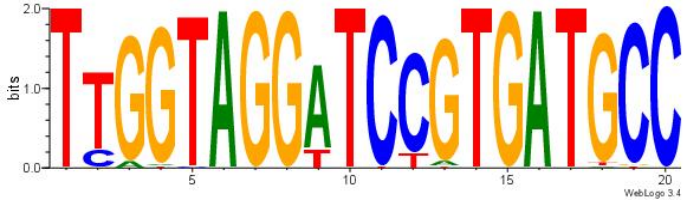

Dataset #: 1 Motif ID: 138 Motif name: Motif 138

Original motif Consensus sequence: CAGCCAGATCRSCC

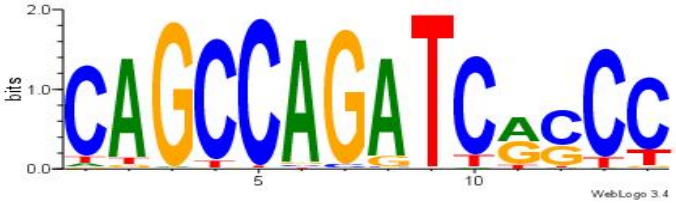

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

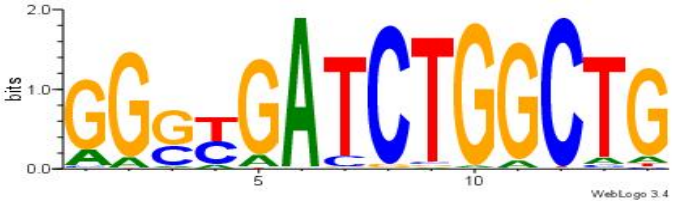

Best Matches for Motif ID 138 (Highest to Lowest)

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0576267

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
GGSKGATCTGGCTG------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

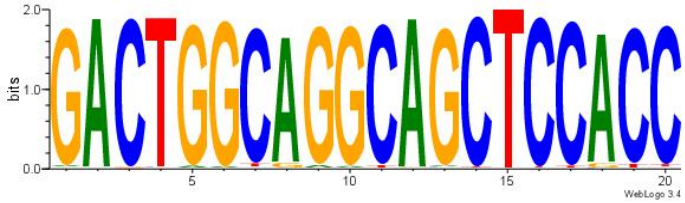

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

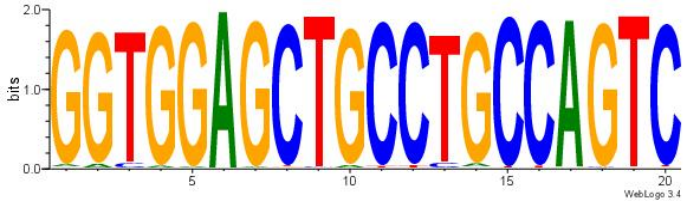

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0761753

Alignment:

```
TTGGAGGTTCTAGCAGGG
--GGSKGATCTGGCTG--
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

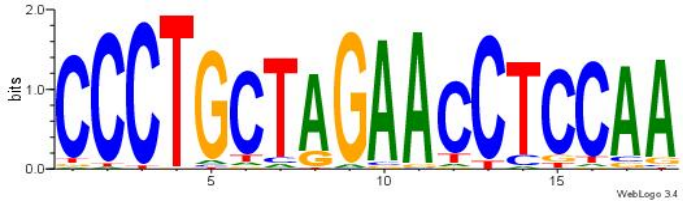

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

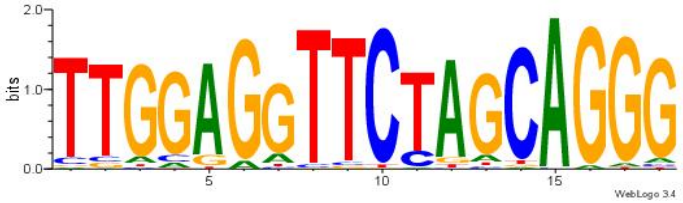

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0779469

Alignment:

```
CRTGAGCCACYGYRCCYGGC
---CAGCCAGATCRSCC---
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

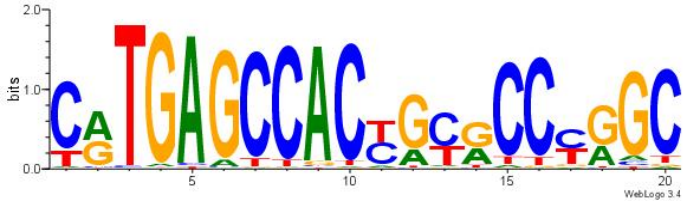

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

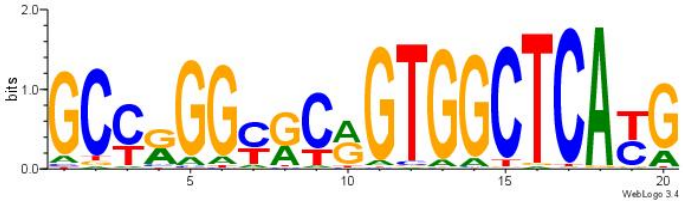

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0788168

Alignment:

```
GCTCCACCCAGTTCGAGCTT
----CAGCCAGATCRSCC--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

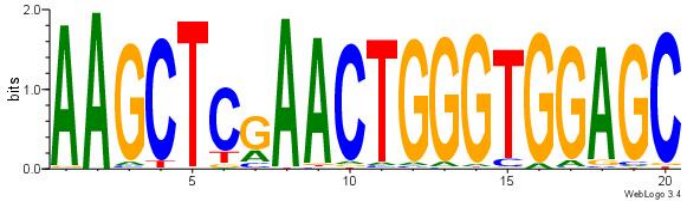

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

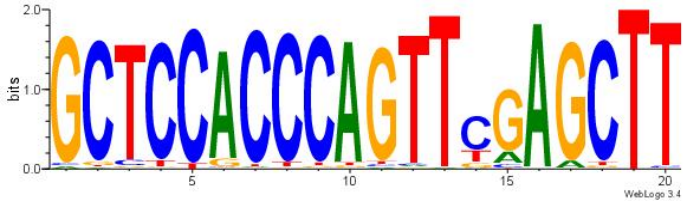

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.081782

Alignment:
GGAGCCGGCTCCCTCAGCTT
-----CAGCCAGATCRSCC-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

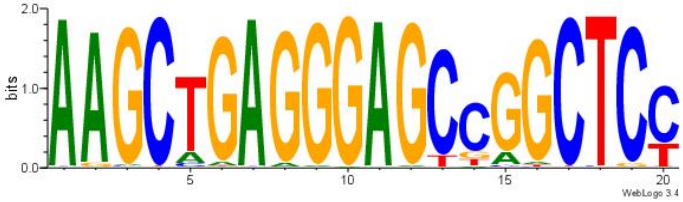

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

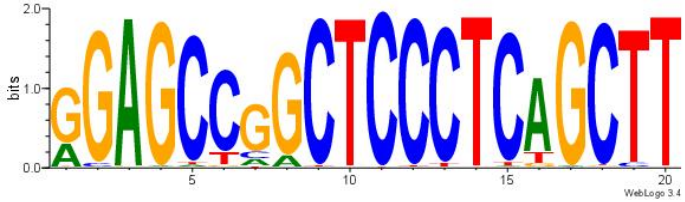

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0840254

Alignment:
TTCAMTCATGATTTGGCTCT
-----GGSKGATCTGGCTG-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

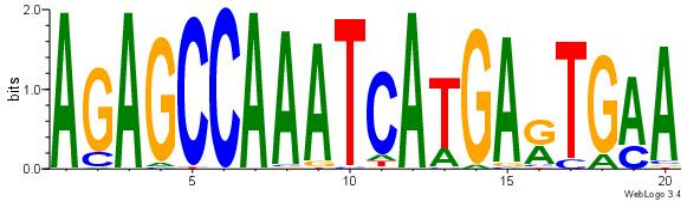

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

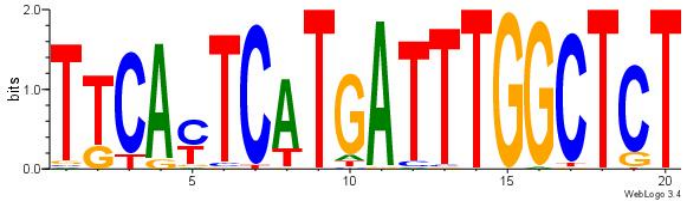

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0852596

Alignment:

```
GCCAGGCAGAGRGKCTCCT
--CAGCCAGATCRSCC---
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

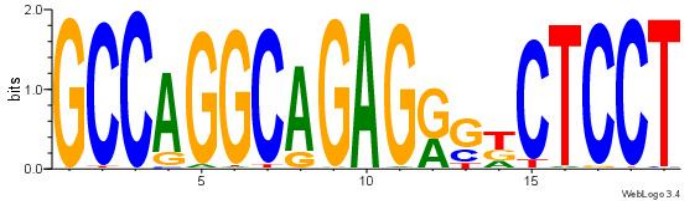

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

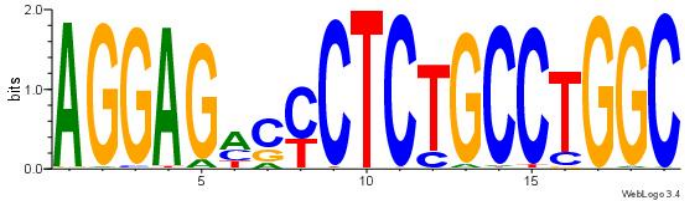

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0874772

Alignment:

```
ACTCCCTAGTGAGATGAACC
CAGCCAGATCRSCC------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

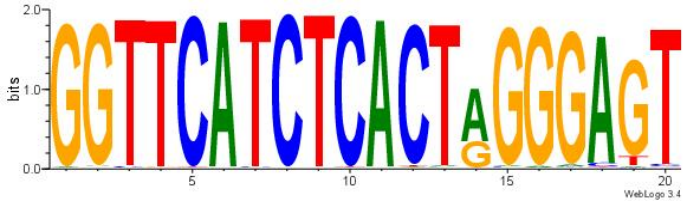

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

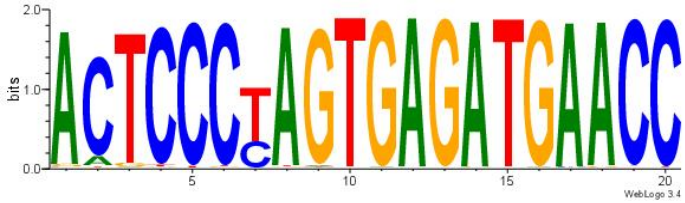

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0887275

Alignment:
CGCGGCGCTTGCGGGCCAGC
GGSKGATCTGGCTG------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

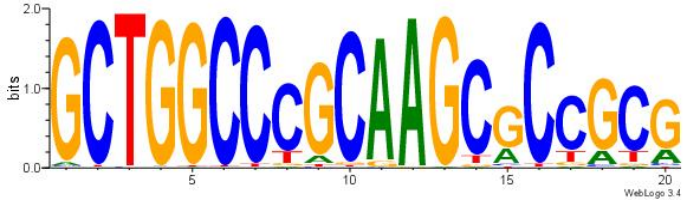

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

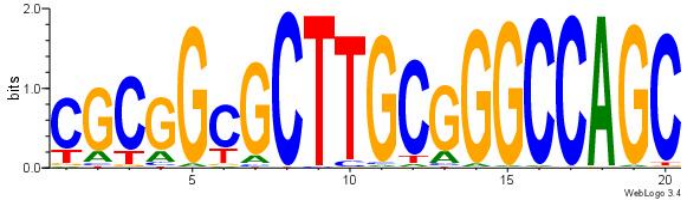

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.0922196

Alignment:
TMGGGAGGCTGAGGCAGGAG
---GGSKGATCTGGCTG---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

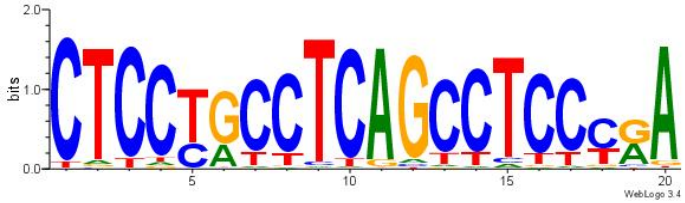

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

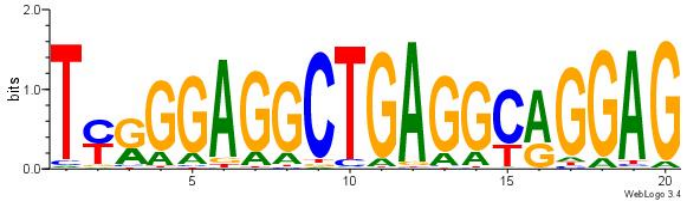

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0934269

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GGSKGATCTGGCTG--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

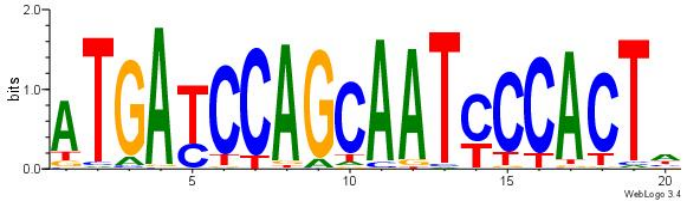

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

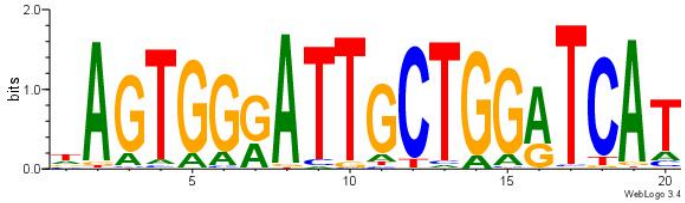

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.093705

Alignment:

```
AGCTCCCAGCGTGAGCGACG
------CAGCCAGATCRSCC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

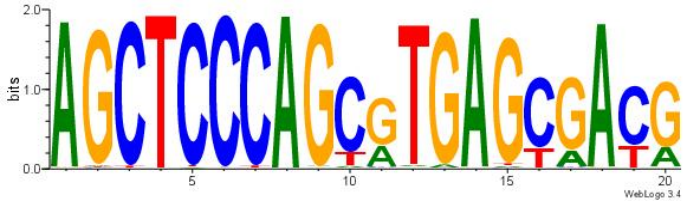

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

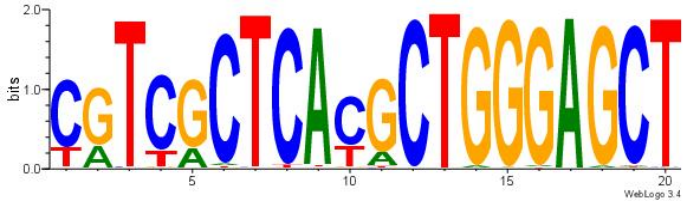

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 14
Similarity score: 0.0940656

Alignment:
CATTCTGGGGTCTGGAGGAY
----GGSKGATCTGGCTG--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

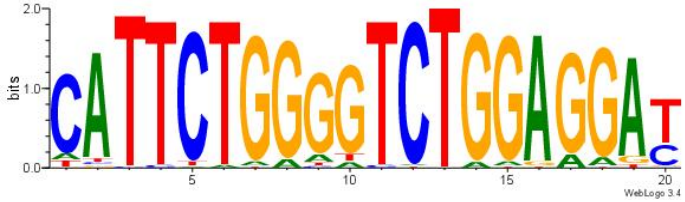

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

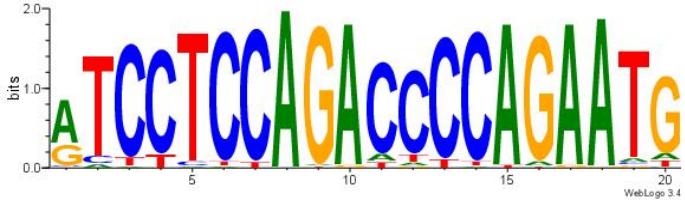

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.0947522

Alignment:
KCCGGGCCTTAGCTGCCTTC
-----GGSKGATCTGGCTG-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

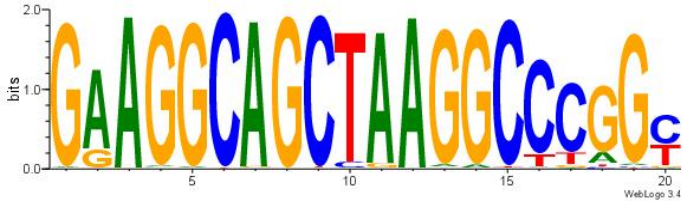

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

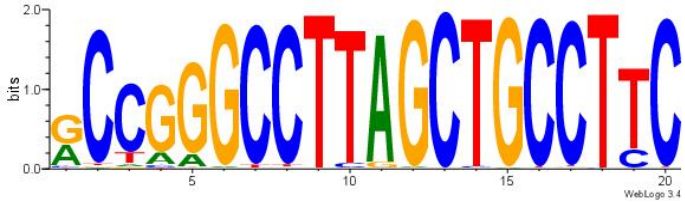

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0956083

Alignment:

```
TAGTGGTGATTTSTGAGAT
---GGSKGATCTGGCTG--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

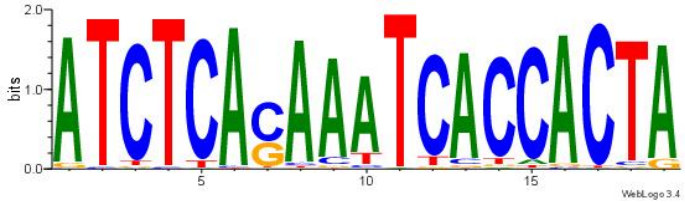

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

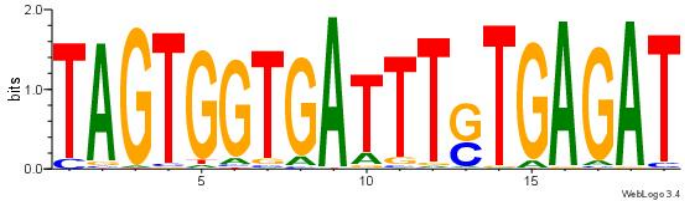

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0976716

Alignment:

```
TGAGKCAATTAAACCTCTT
----CAGCCAGATCRSCC-
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

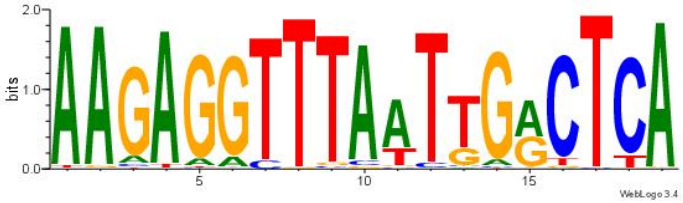

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

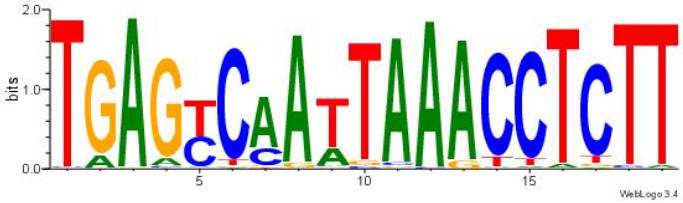

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.0976953

Alignment:
ATGTGGAGGTGGAAGACAGT
-GGSKGATCTGGCTG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

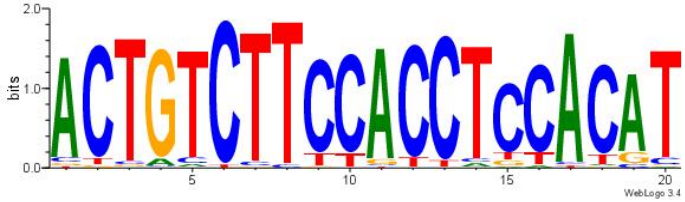

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

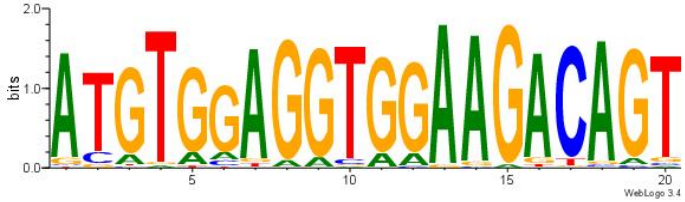

Dataset #: 1
Motif ID: 183
Motif name: Motif 183
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0979683

Alignment:
GCCRGCCCTGCYGGCC
--CAGCCAGATCRSCC

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

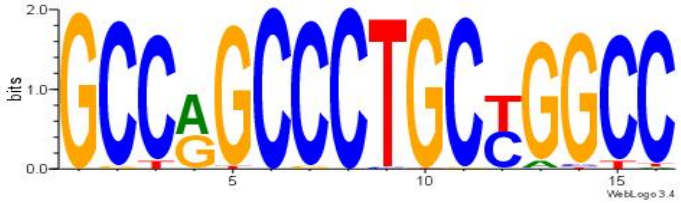

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

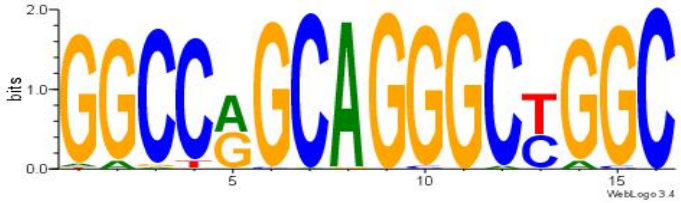

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0980993

Alignment:

```
TGGGGCTCCAGATG
GGSKGATCTGGCTG
```

Original motif Consensus sequence: CATCTGGAGCCCCA

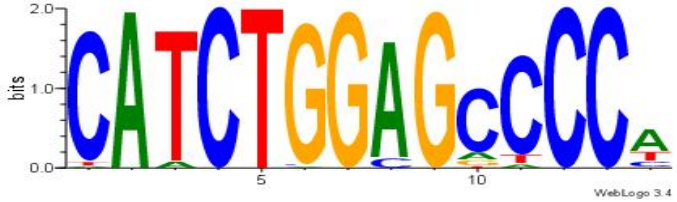

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

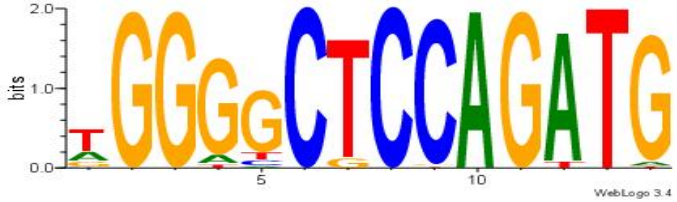

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0997066

Alignment:

```
ATGGACAYTTRGGTTGHTTC
----GGSKGATCTGGCTG--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

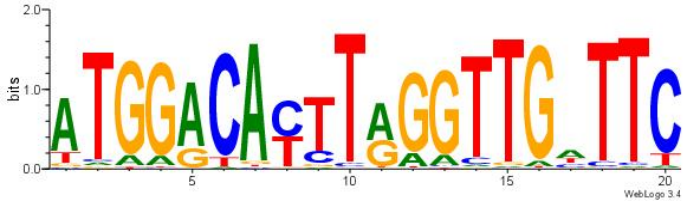

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

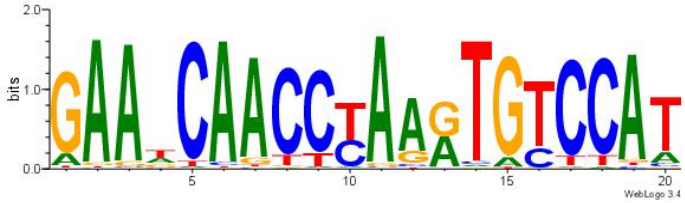

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 14
Similarity score: 0.0997863

Alignment:
CAAGCGCCAGCTCATGTC
---CAGCCAGATCRSCC-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

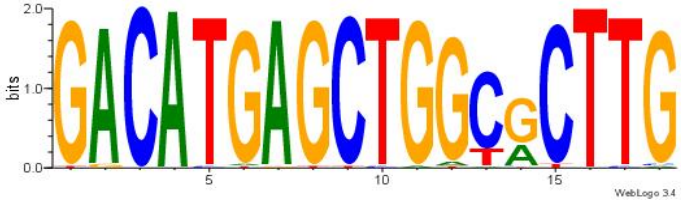

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

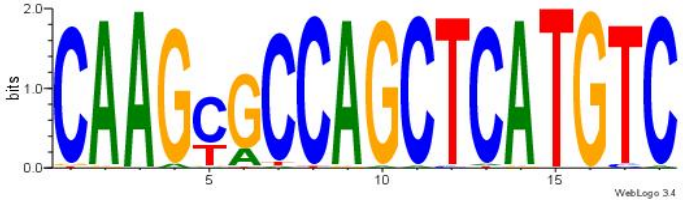

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.100252

Alignment:
GGATCCACTGGGTGAAGCCA
------GGSKGATCTGGCTG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

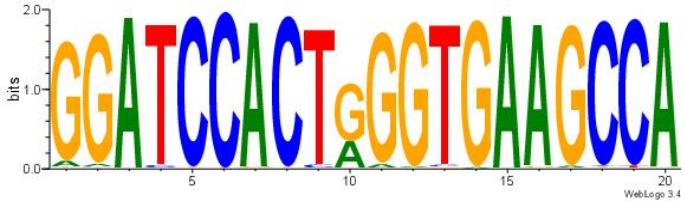

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

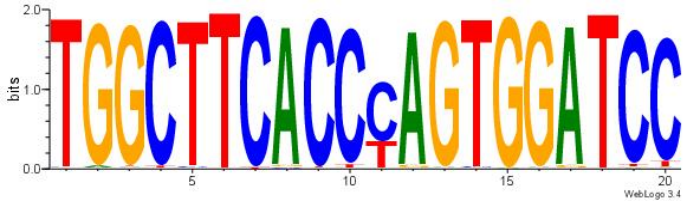

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.101026

Alignment:

```
CAAGCCTSKGCAATGGCAGG
-----GGSKGATCTGGCTG-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

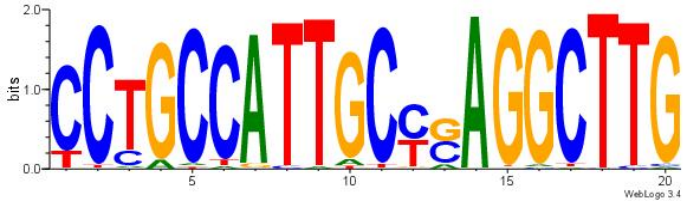

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

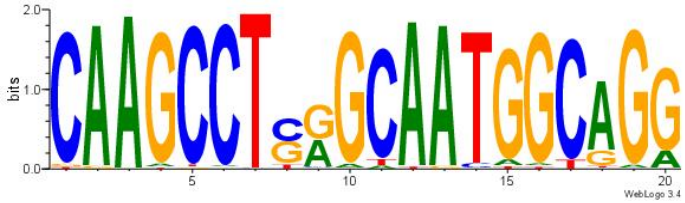

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.101893

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----GGSKGATCTGGCTG-
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

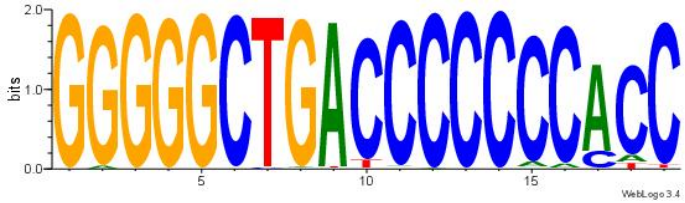

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

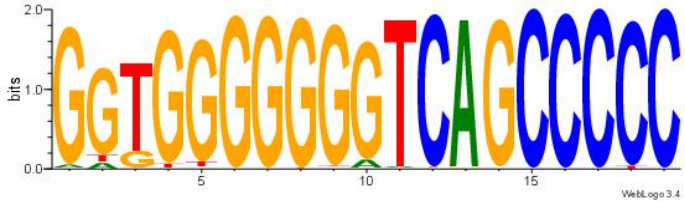

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.103676

Alignment:
ACTCAGCCCRCCTGCACCC
---CAGCCAGATCRSCC--

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

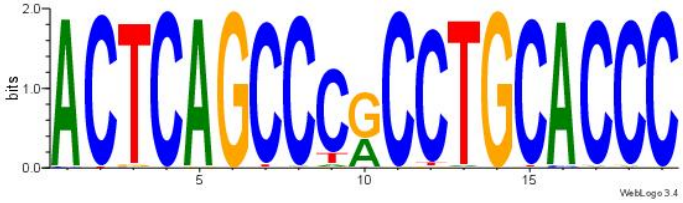

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

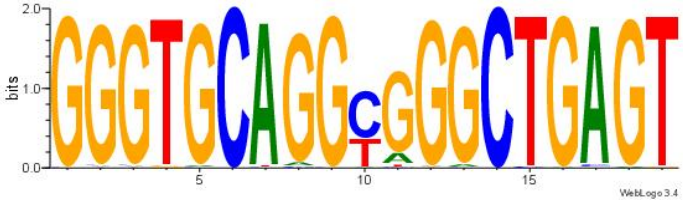

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.103915

Alignment:
GGCTGCGGAGGGTGTA
--GGSKGATCTGGCTG

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

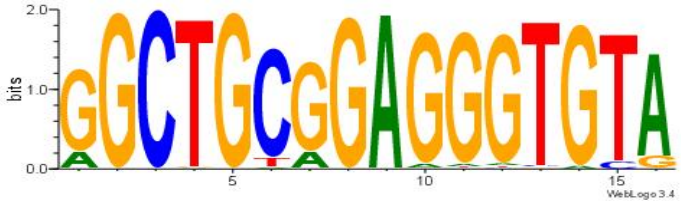

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

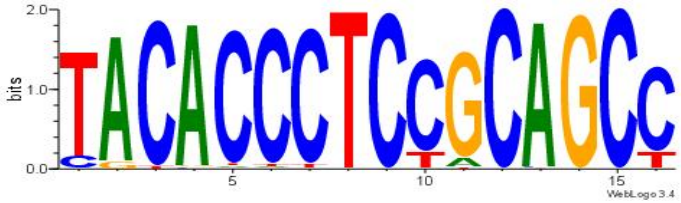

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.104341

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
--CAGCCAGATCRSCC----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

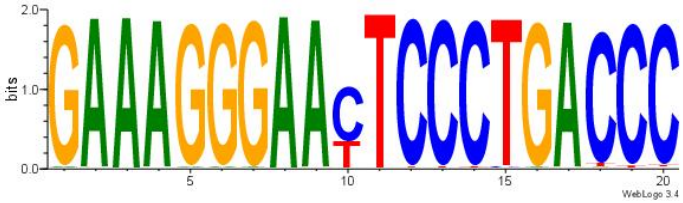

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

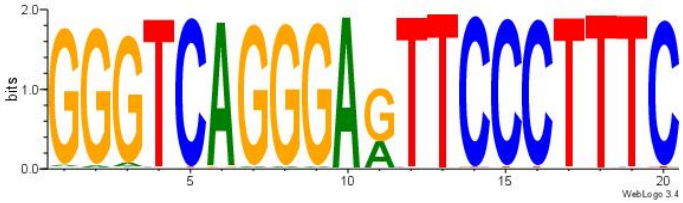

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.104504

Alignment:

```
CACCAGACTCAGGAGCCCAG
---CAGCCAGATCRSCC---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

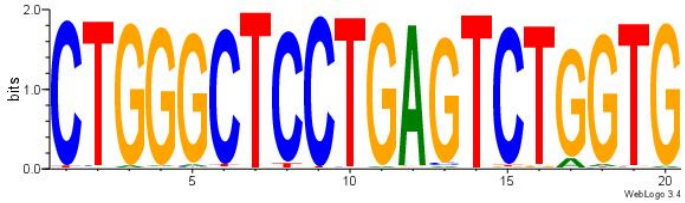

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

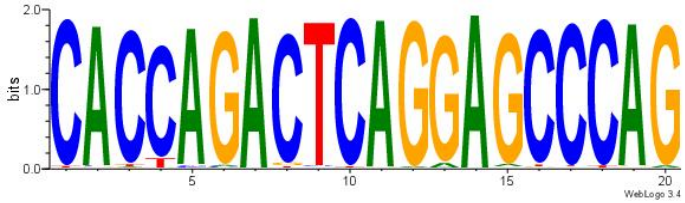

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.105837

Alignment:
CTATTGTGAATARTGCTGC
-GGSKGATCTGGCTG----

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

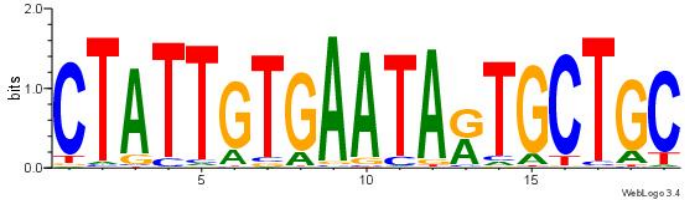

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

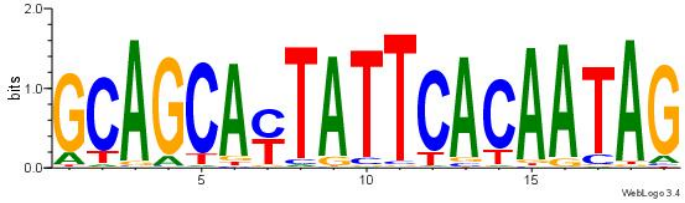

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.105842

Alignment:
GGATTTMKGACTTGCATGGG
----GGSKGATCTGGCTG--

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

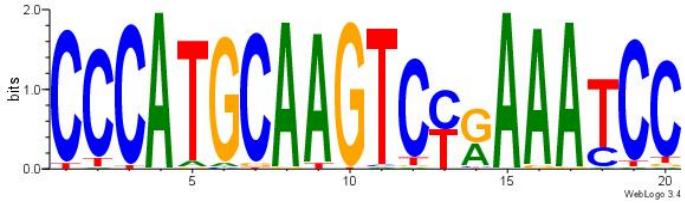

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

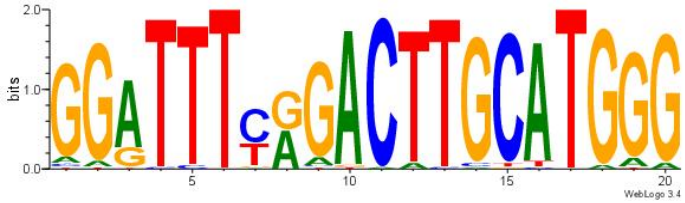

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.106389

Alignment:

```
CTTTCTGGGCTGGCCAAGG
--GGSKGATCTGGCTG---
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

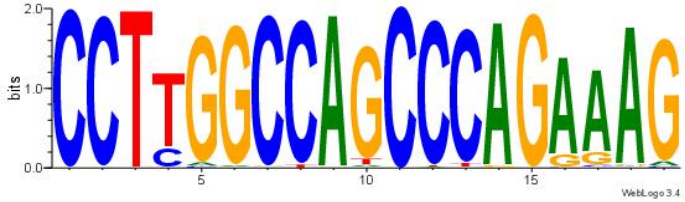

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

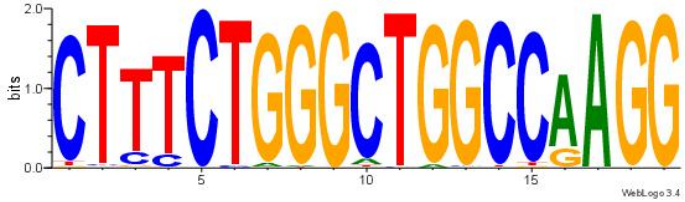

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.107002

Alignment:

```
GGCACTGCTGGGGGACCCAG
GGSKGATCTGGCTG------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

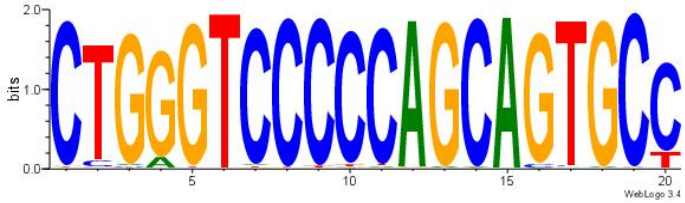

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

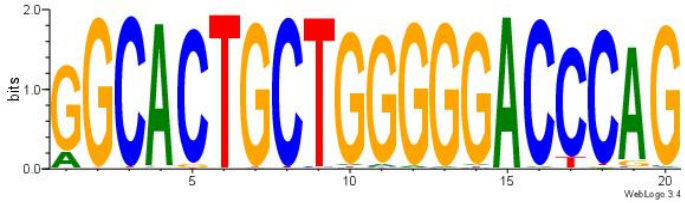

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.107215

Alignment:
GAATACCTCCTGAAGGACCT
-----CAGCCAGATCRSCC-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

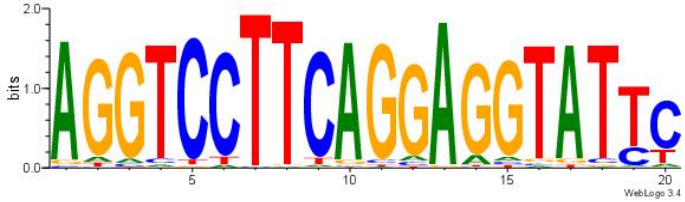

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

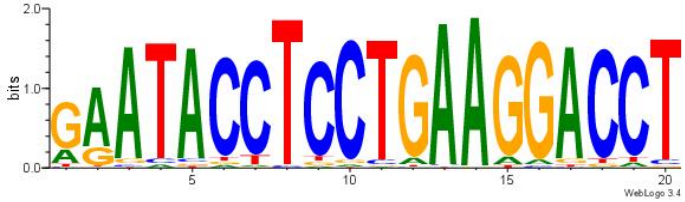

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.107866

Alignment:
AGGAGCCCCTCHGCCCR
--CAGCCAGATCRSCC-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

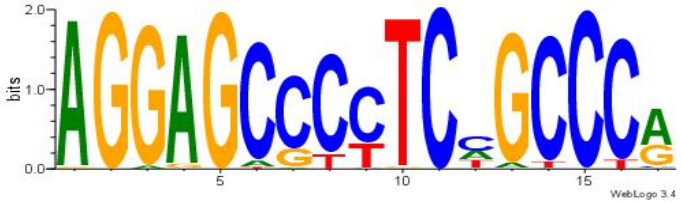

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.108191

Alignment:

```
TYTGTCMTTTTGTGACTGGC
----GGSKGATCTGGCTG--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

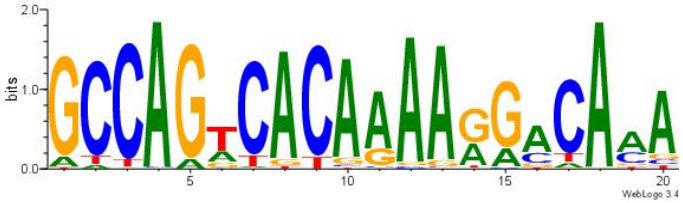

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

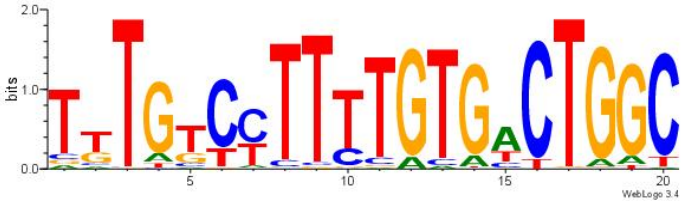

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.108354

Alignment:

```
CGGCGCTGMGCTCGATTTCT
---GGSKGATCTGGCTG---
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

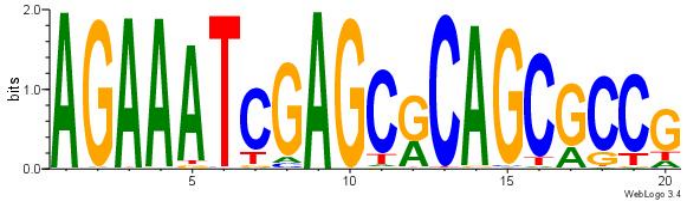

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

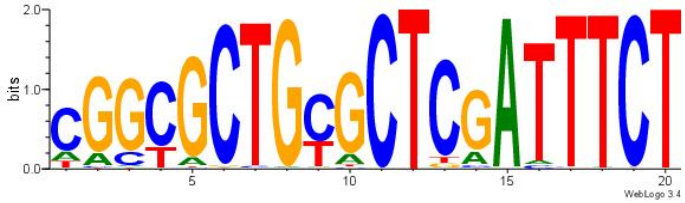

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.108765

Alignment:
GCTGGAGTGCAGTGGCRYGA
--GGSKGATCTGGCTG----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

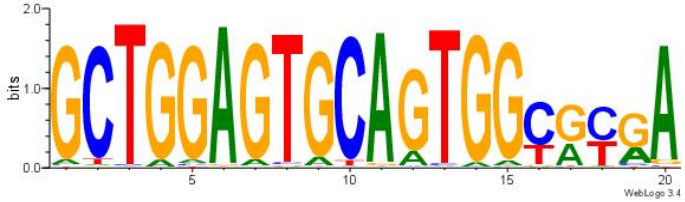

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

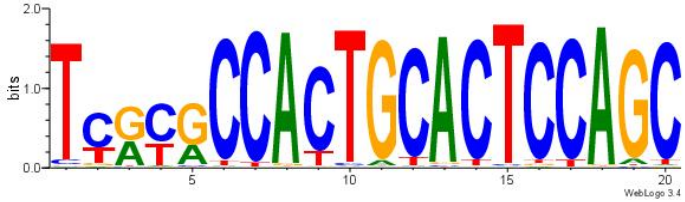

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.108788

Alignment:
AAAACCAGCAAGTTTTTAT
-----CAGCCAGATCRSCC

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

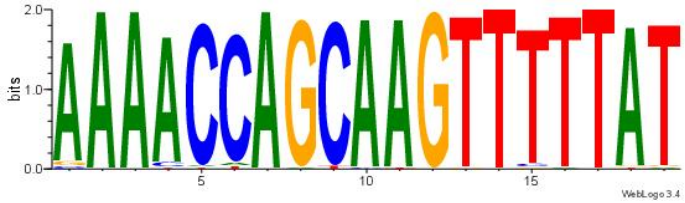

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

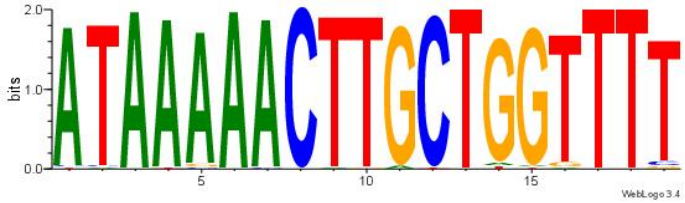

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109077

Alignment:

```
TTGAGGAGGCAGTCTG
--GGSKGATCTGGCTG
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

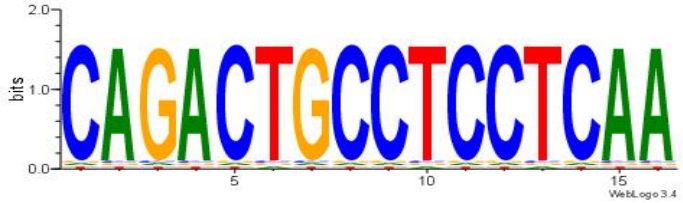

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

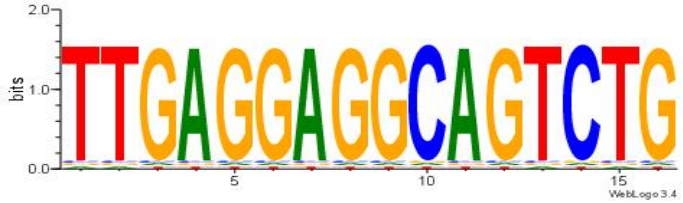

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.109124

Alignment:

```
CAGGTGGTKTTTGGTTACAT
---GGSKGATCTGGCTG---
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

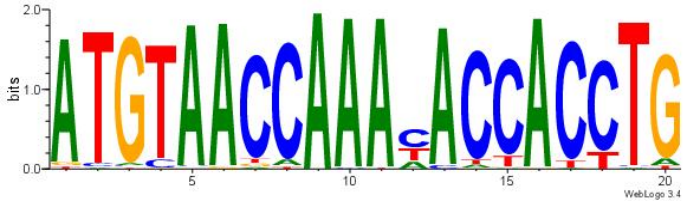

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

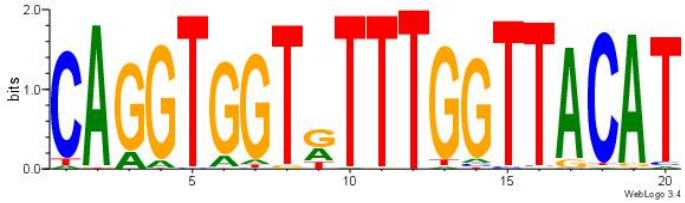

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.109207

Alignment:
MGAAGGGACTTGCCTTGT
--GGSKGATCTGGCTG--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

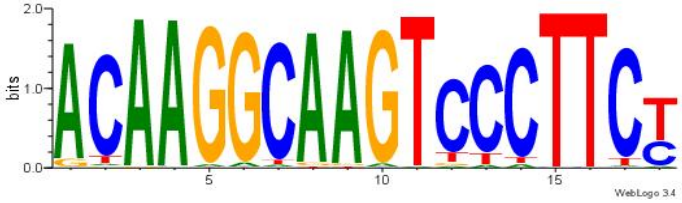

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

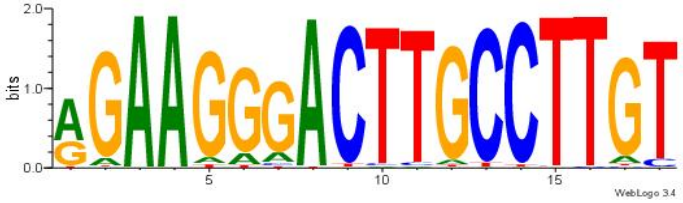

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.110162

Alignment:
ACCCYGTCTGGGAGGTG
---GGSKGATCTGGCTG

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

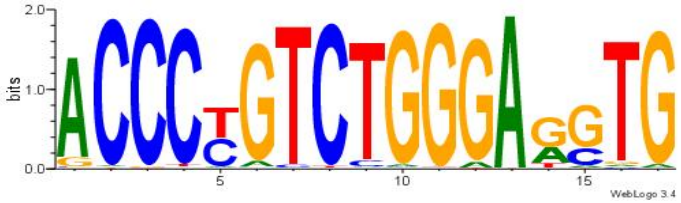

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

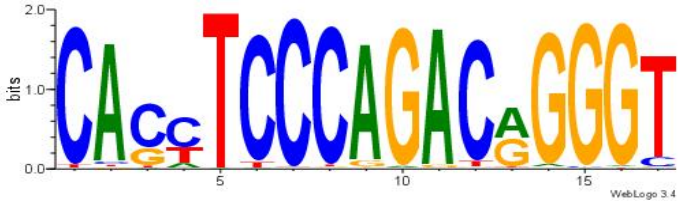

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.110504

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--GGSKGATCTGGCTG----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

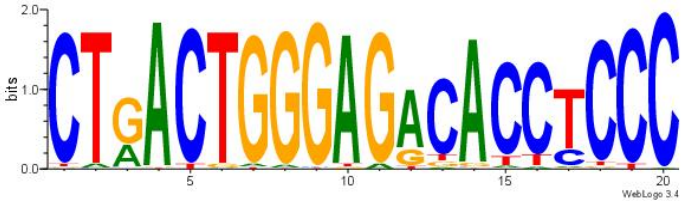

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

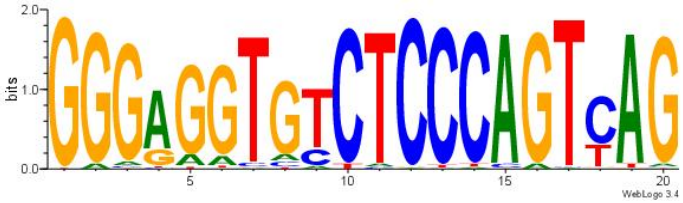

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.111286

Alignment:

```
TGTGTGTGTGTKTGTGTGT
GGSKGATCTGGCTG-----
```

Original motif Consensus sequence: ACACACAYACACACACACA

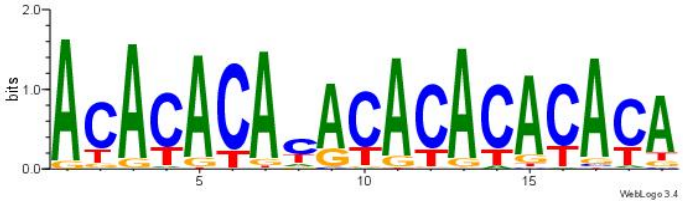

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

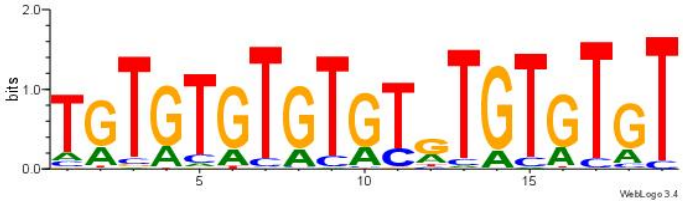

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.111549

Alignment:
GCTGCARTCTCGGCACTTT
-CAGCCAGATCRSCC----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

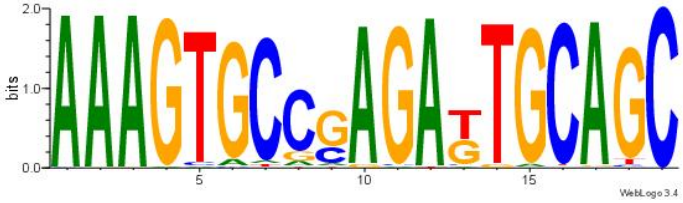

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

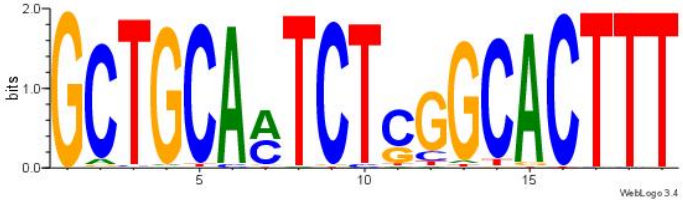

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.11208

Alignment:
GGGRSCACAGGAGCD
GGSKGATCTGGCTG-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

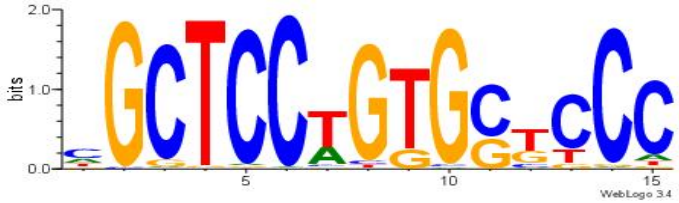

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.112134

Alignment:

```
CCGCGGGGCAGGGCTCG
--GGSKGATCTGGCTG-
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

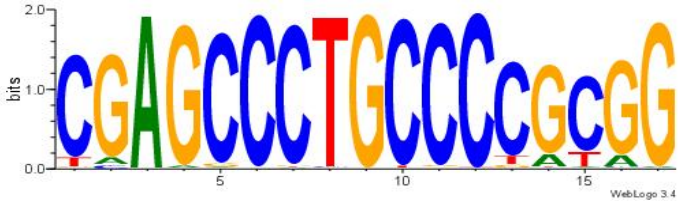

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

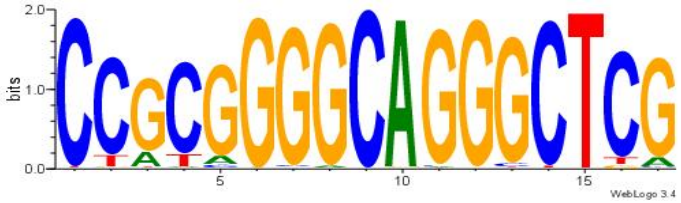

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.112395

Alignment:

```
GCCGGGRAGAGGCGCTCCT
---CAGCCAGATCRSCC--
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

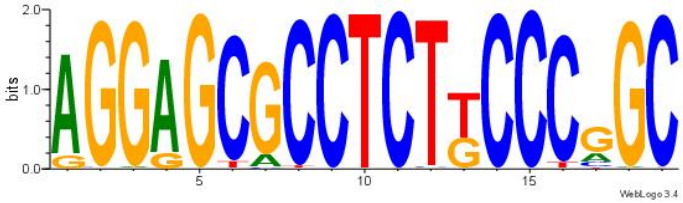

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

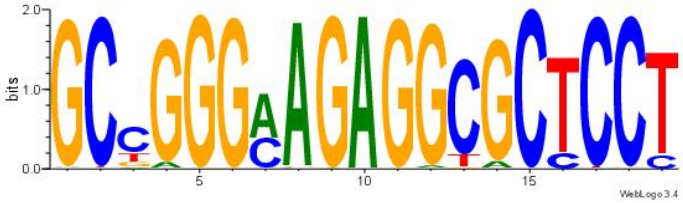

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.112536

Alignment:
GGAGGATCACKTGAG
GGSKGATCTGGCTG-

Original motif Consensus sequence: CTCARGTGATCCTCC

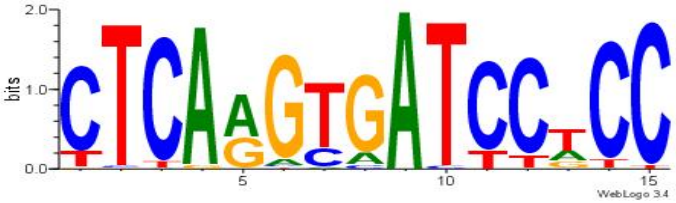

Reverse complement motif Consensus sequence: GGAGGATCACKTG

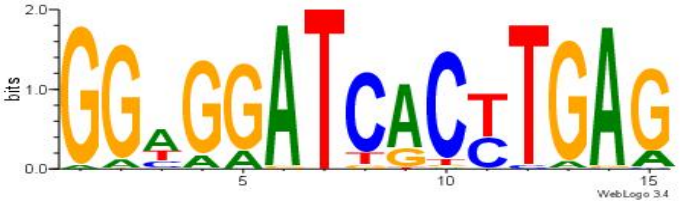

Dataset #: 1
Motif ID: 341
Motif name: Motif 341
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.112716

Alignment:
TGGATGGATGGATGGAT
GGSKGATCTGGCTG---

Original motif Consensus sequence: ATCCATCCATCCATCCA

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

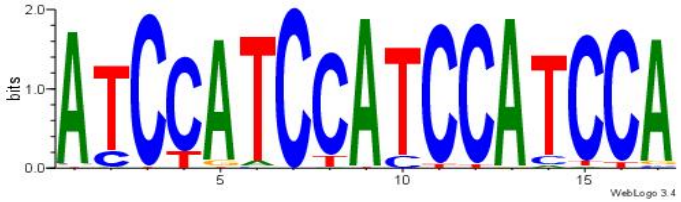

Dataset #: 1 Motif ID: 139 Motif name: Motif 139

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

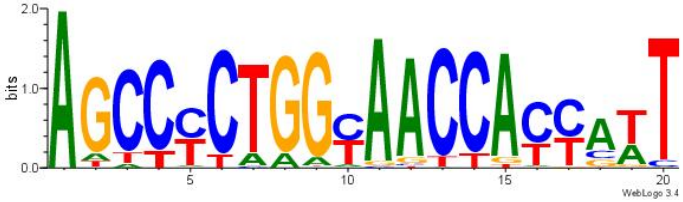

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

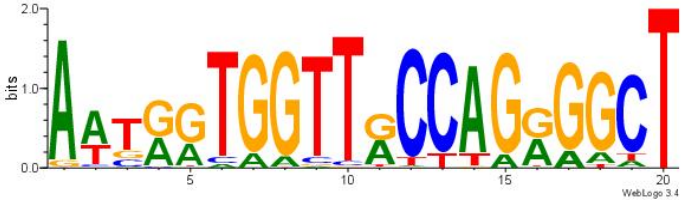

Best Matches for Motif ID 139 (Highest to Lowest)

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.087556

Alignment:

ATCRCTTGAGSYCAGGAGKT
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

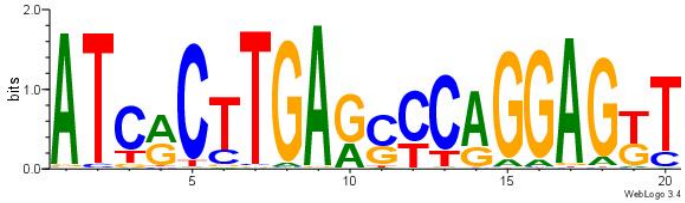

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

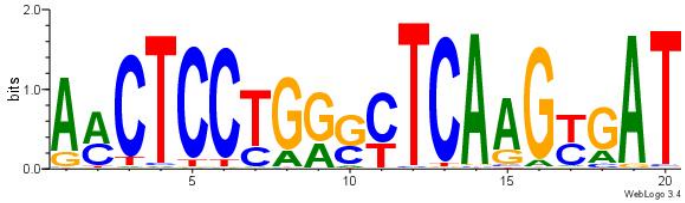

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0947311

Alignment:
AGGCCCCAGTGTSTGTTGTT
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

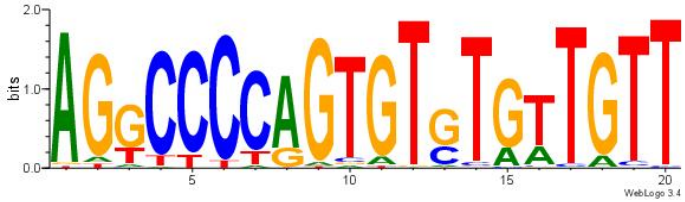

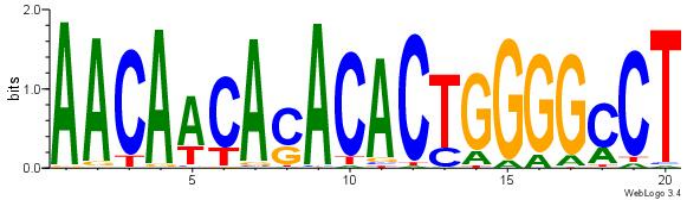

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.099271

Alignment:

```
CATTCTGGGGTCTGGAGGAY
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

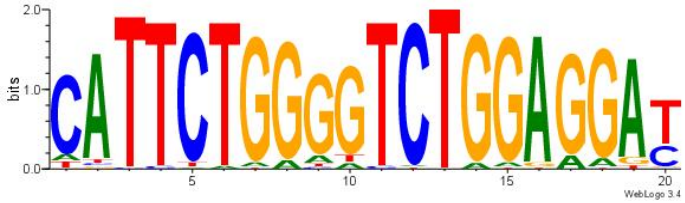

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

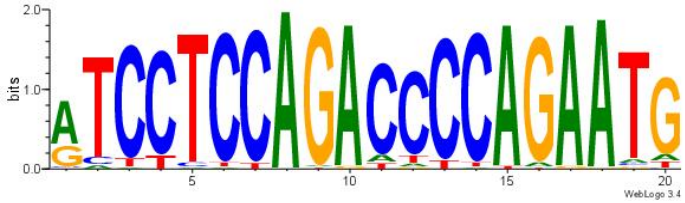

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.103788

Alignment:

```
ATGATCCAGCAATYCCACTH
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

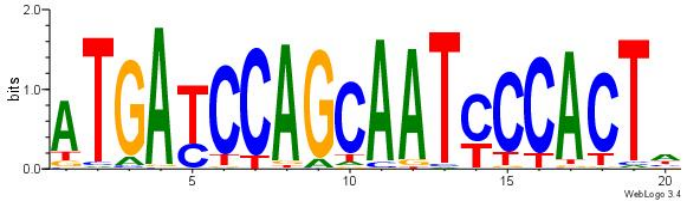

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

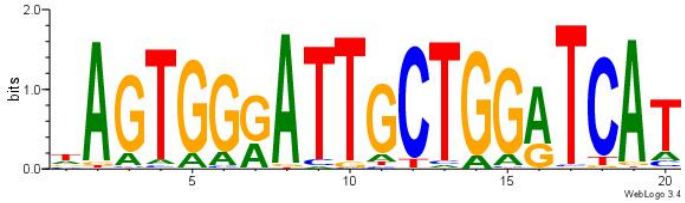

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.108741

Alignment:
CAACATGGATGRARCTGGAG
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

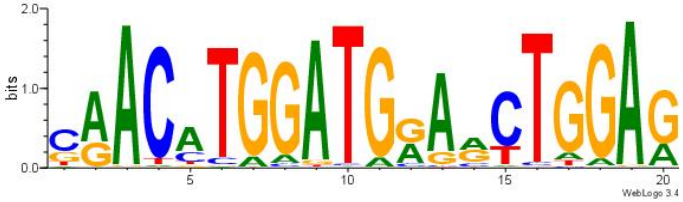

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

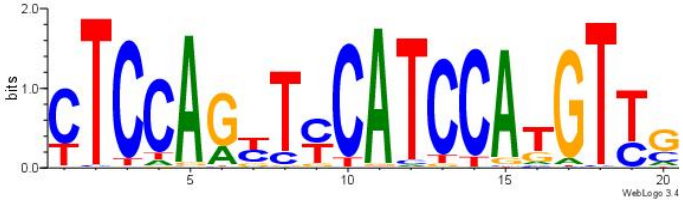

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.1091

Alignment:
KKCACCTTGATCTTGGACTT
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

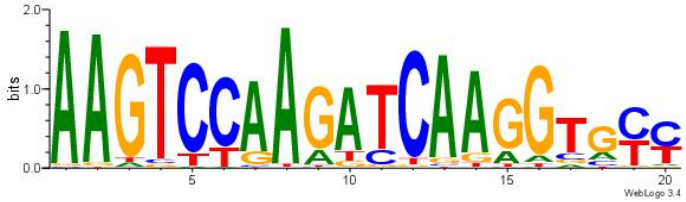

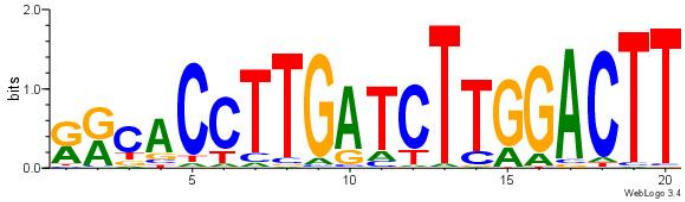

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110429

Alignment:
ATGTGGAGGTGGAAGACAGT
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

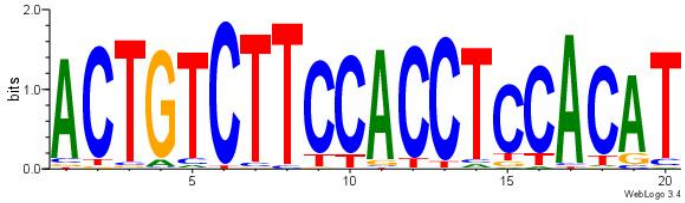

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

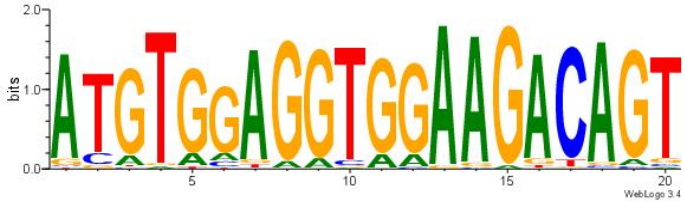

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110676

Alignment:
CTCCTGCCTCAGCCTCCCRA
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

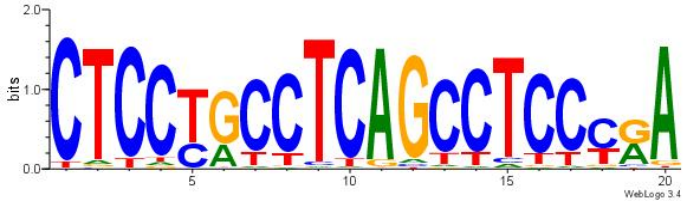

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

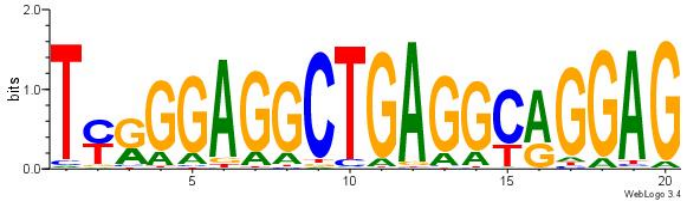

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.110975

Alignment:
VMATTTAKTGAGCACCTACT
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

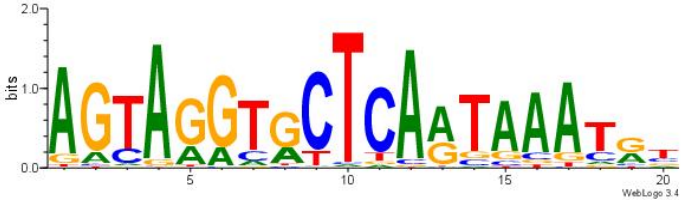

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

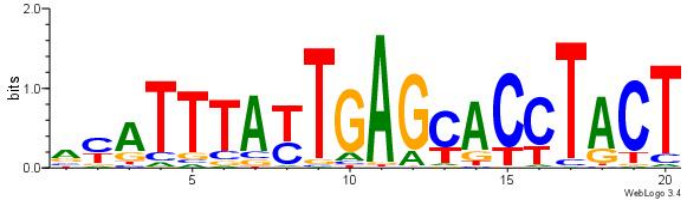

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.112156

Alignment:
AAAATGTGGTAYATAYAYAC
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

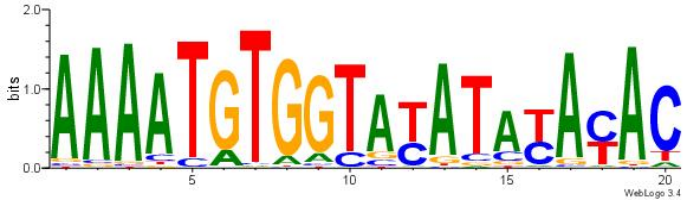

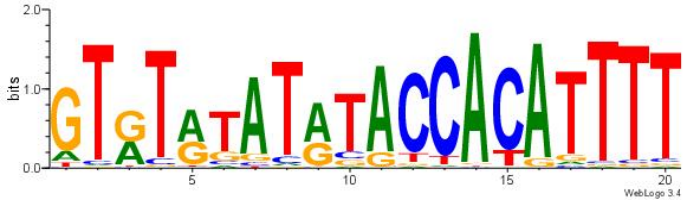

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112444

Alignment:

```
AGAAATCGAGCRCAGCGCCG
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

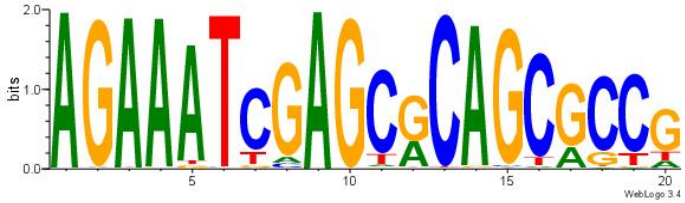

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

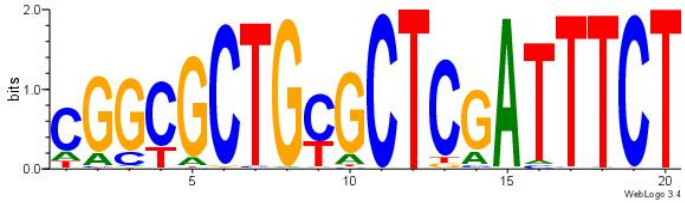

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113612

Alignment:

```
ATGGCTGAATAKTATTCCAT
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

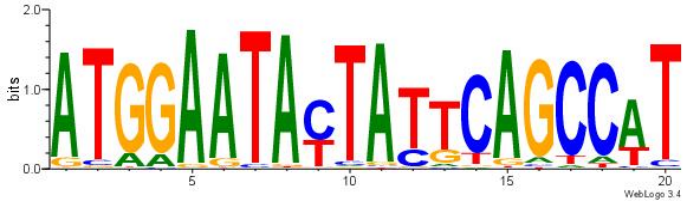

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

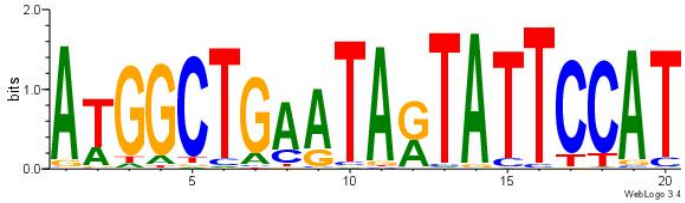

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.114045

Alignment:
AAGCTGAGGGAGCCGGCTCC
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

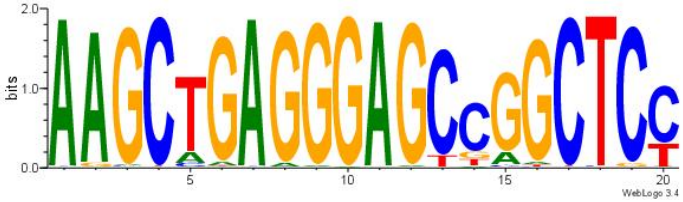

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

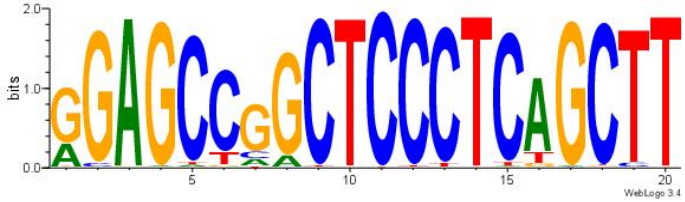

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.116074

Alignment:
AGCTCCCAGCGTGAGCGACG
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

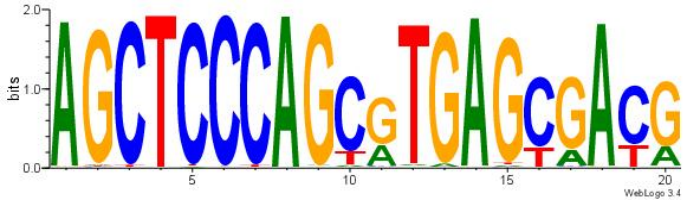

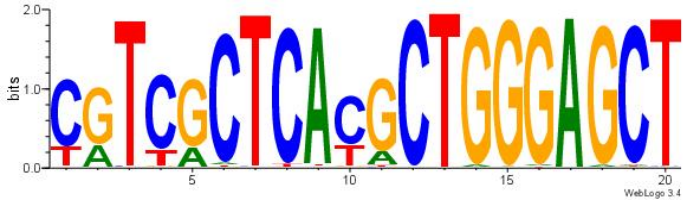

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116646

Alignment:

```
TTGGTAGGATCCGTGATGCC
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

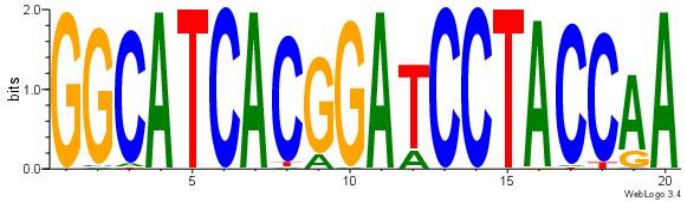

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

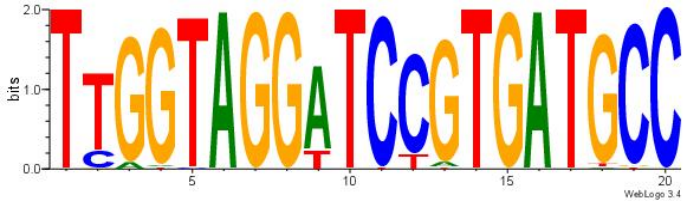

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.116826

Alignment:

```
AAATTAGGCCAATTAATAAC
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

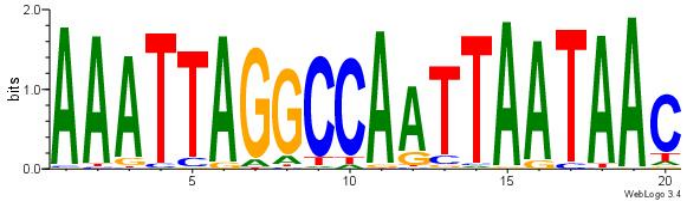

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.119093

Alignment:
GGGATTGTAAATACACCAAT
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

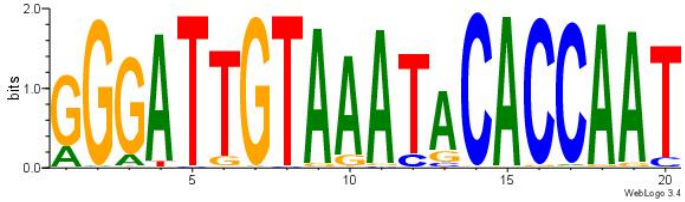

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.119402

Alignment:
GGGAGGTGTCTCCCAGTCAG
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

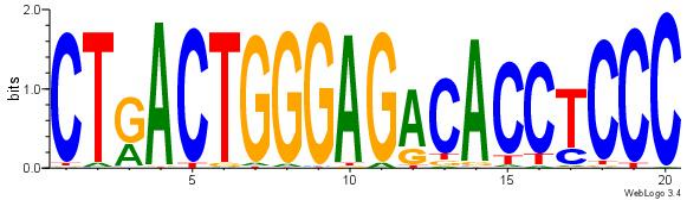

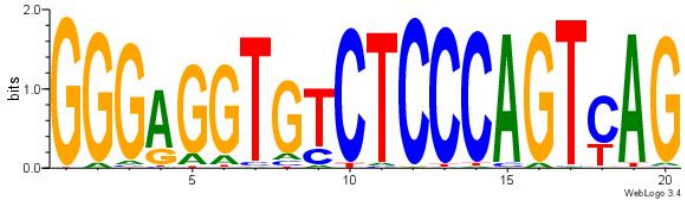

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119859

Alignment:

```
GAAACTGCTTTGTGATGTGT
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

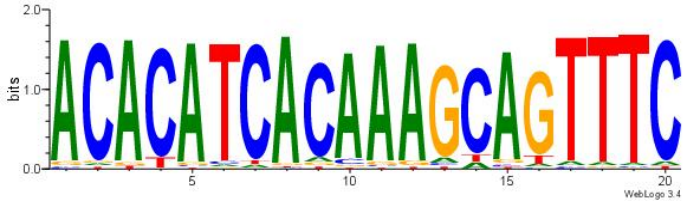

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

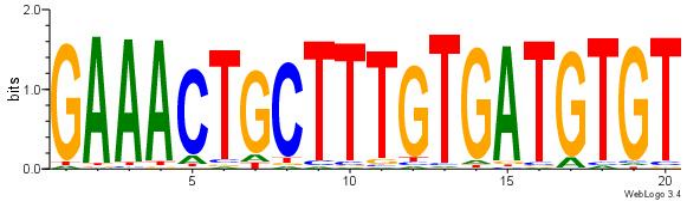

Dataset #:	1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120403

Alignment:

```
TWTACCTATGTAACAAACCT
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

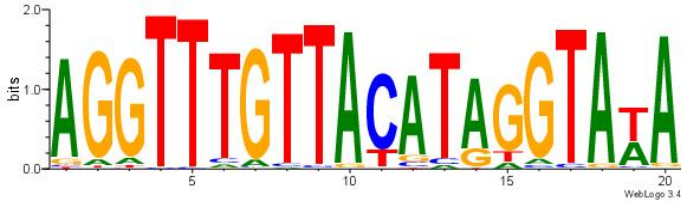

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

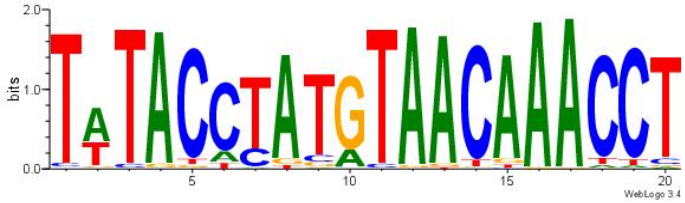

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.122755

Alignment:
GCTGGCCCGCAAGCGCCGCG
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

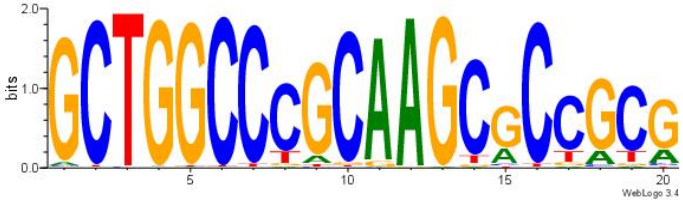

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

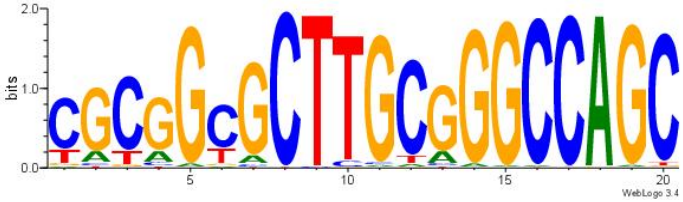

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.123013

Alignment:
TTTYTWTTTTTTYTWGAGAC
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

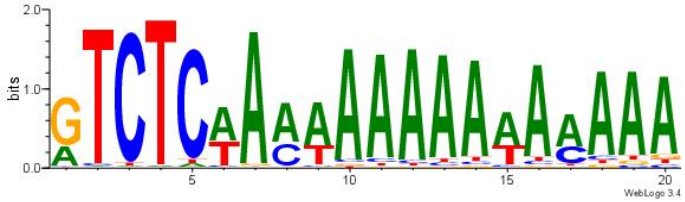

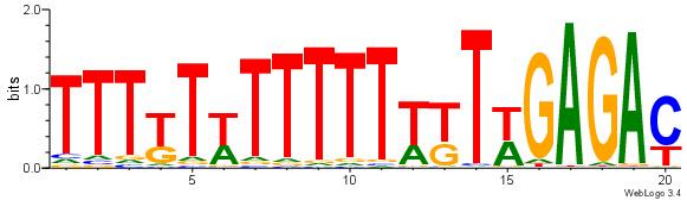

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124024

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

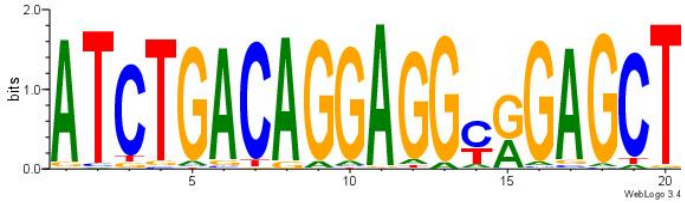

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

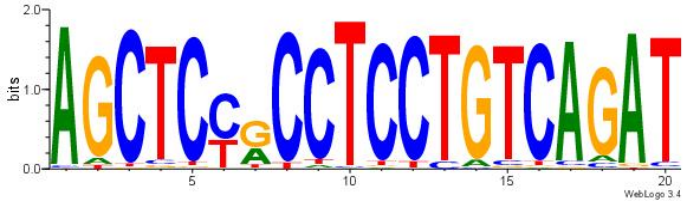

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125087

Alignment:

```
AATCAACCCTGGYRATCAAT
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

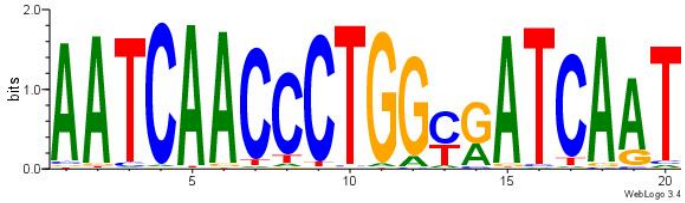

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

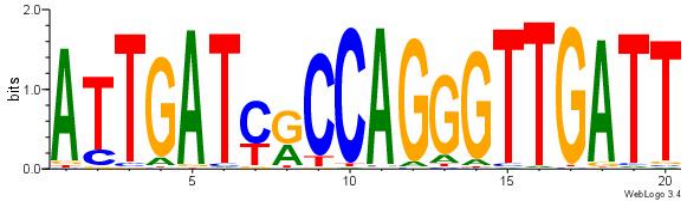

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.126799

Alignment:
AAGTTCTKGGKTACATGTGC
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

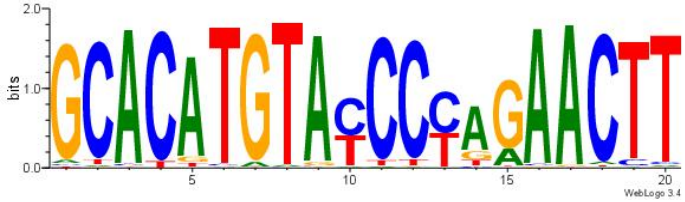

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

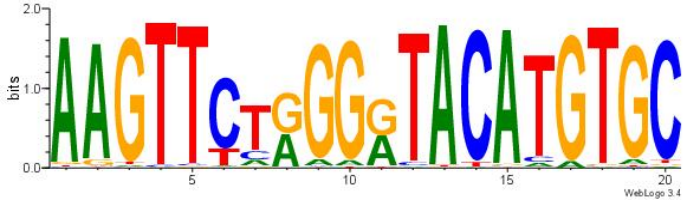

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.127105

Alignment:
TGCTGGAGGTCCACTCCAGA
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

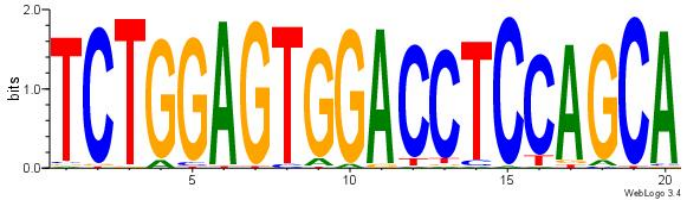

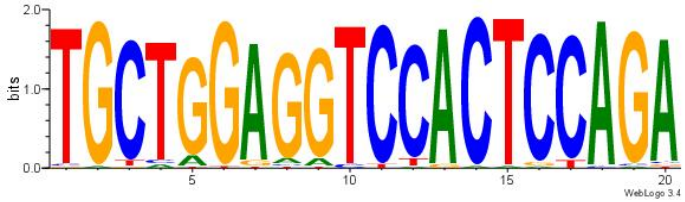

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127228

Alignment:

```
TCCAAATGGGAGAAATTGGC
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

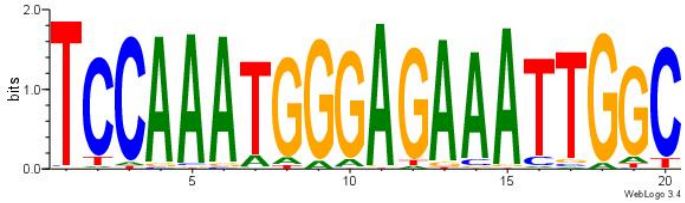

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

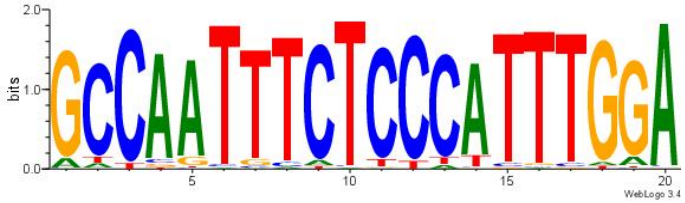

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12726

Alignment:

```
ACCCAATWTGTAGTCTTTTA
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

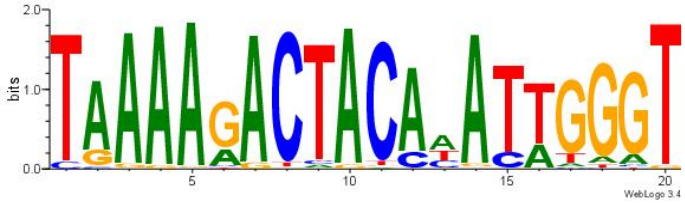

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

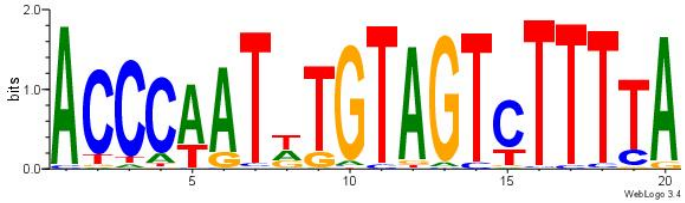

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.12743

Alignment:
AGAGCCAAATCATGARTGAA
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

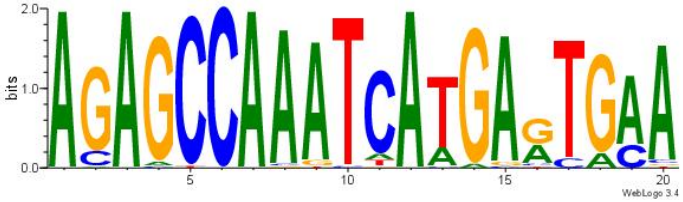

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

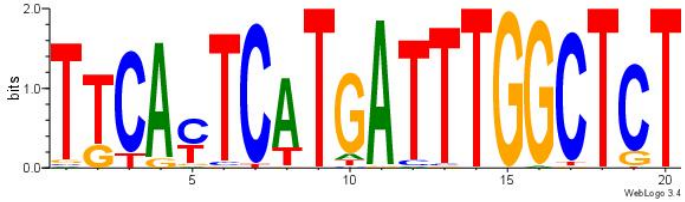

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128161

Alignment:
GGTTCATCTCACTAGGGAGT
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

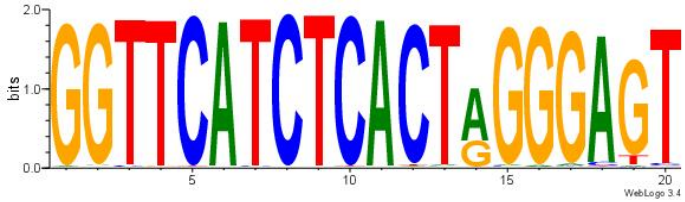

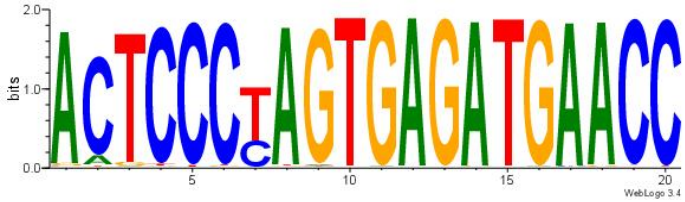

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129424

Alignment:
GAGAGAGAGAGAGAGAGAGA
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

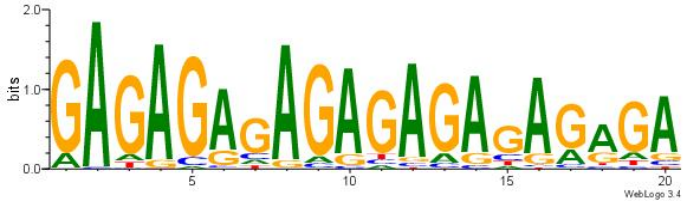

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

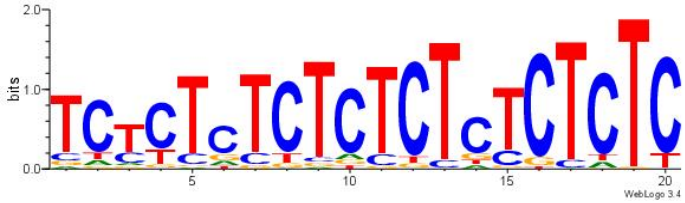

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131231

Alignment:

```
CTGGGCRACAGAGYRAGACY
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

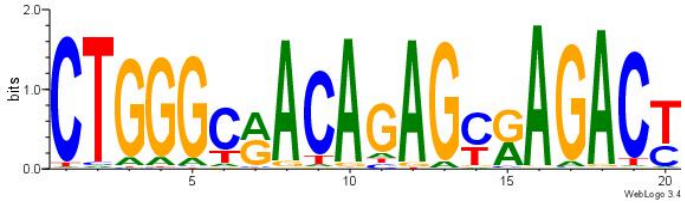

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

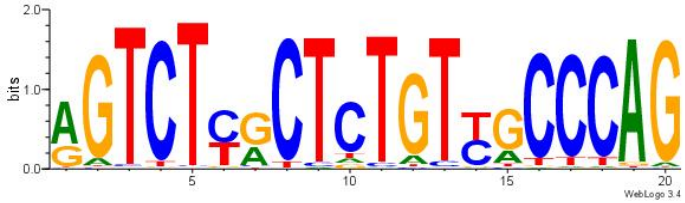

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.131334

Alignment:
AAATTACCCAGTCTCAGGTA
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

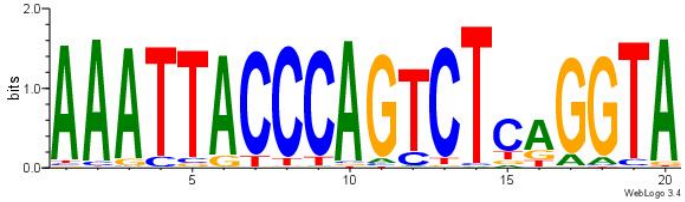

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

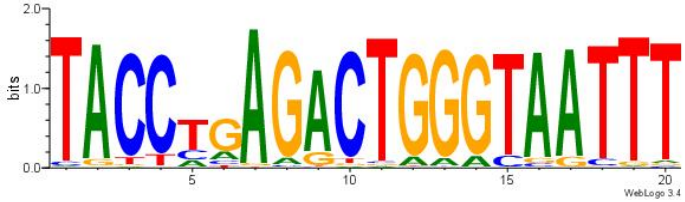

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131565

Alignment:
AAGCAGGGCGAGGCATTGCC
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

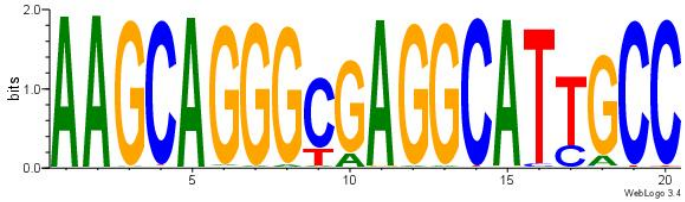

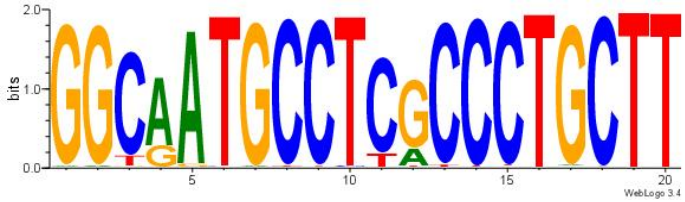

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131632

Alignment:

```
GACAGGAGATTAACACTGAG
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

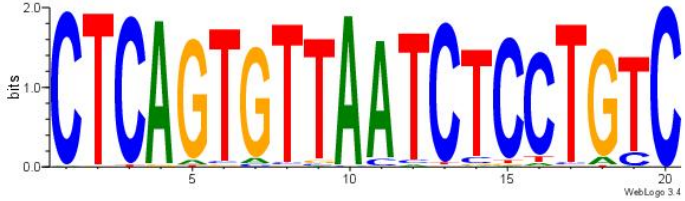

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

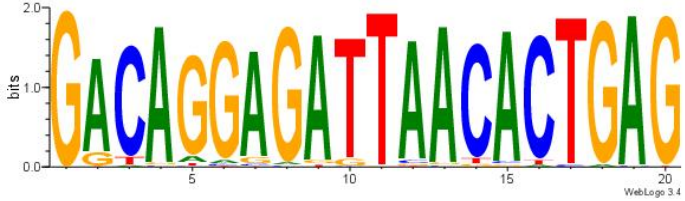

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132314

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

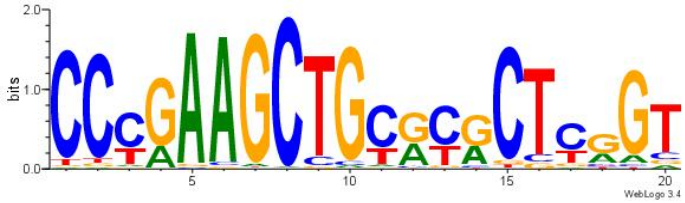

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

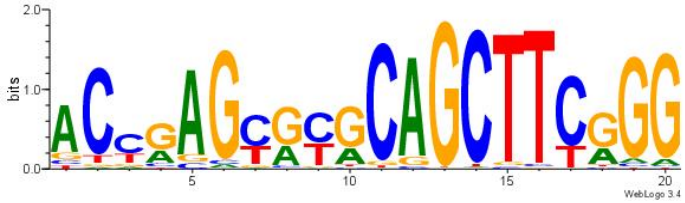

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132545

Alignment:
ATAGGAATGCTTGTGATTTT
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

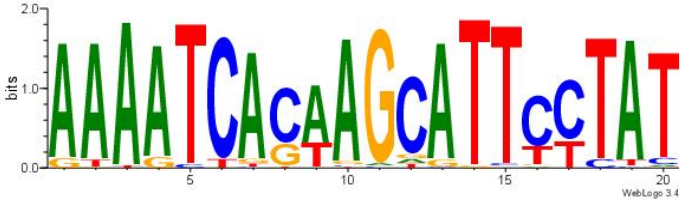

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

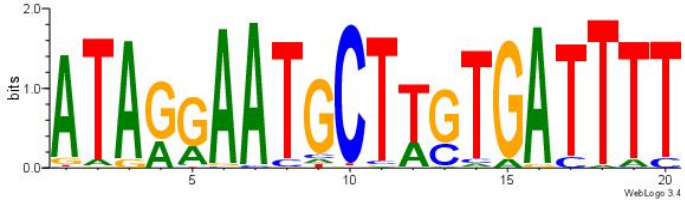

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132654

Alignment:
CMTAGYACAGTGCCTGGCAC
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

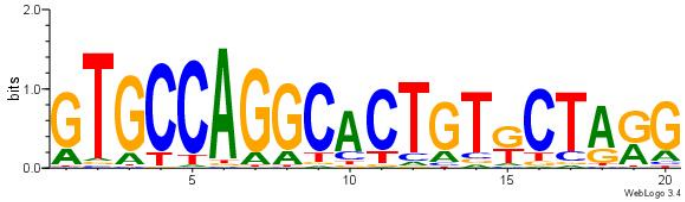

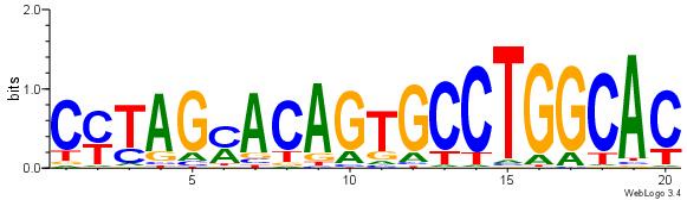

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132775

Alignment:
AGTGACCCGATTTTCCAGGT
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

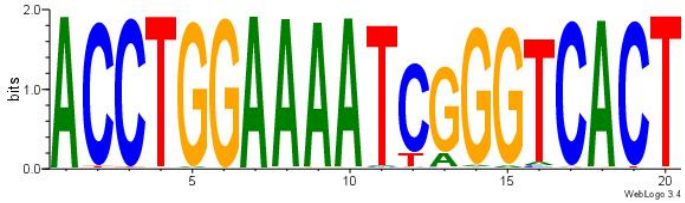

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

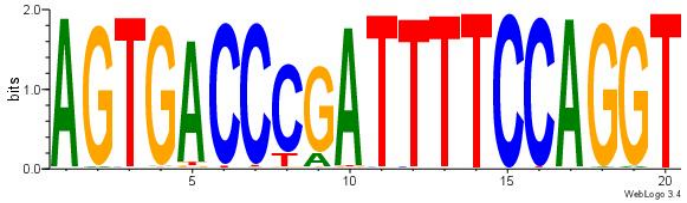

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133355

Alignment:

```
AAAMAMMKMATGTTCTCACT
AGCCYCTGGYAACCAYYAWT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

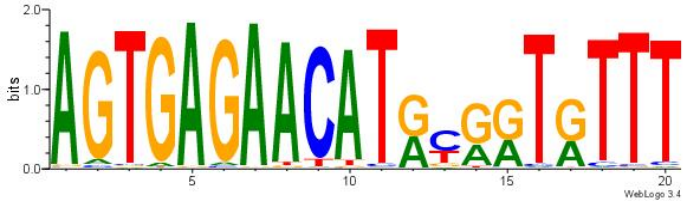

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

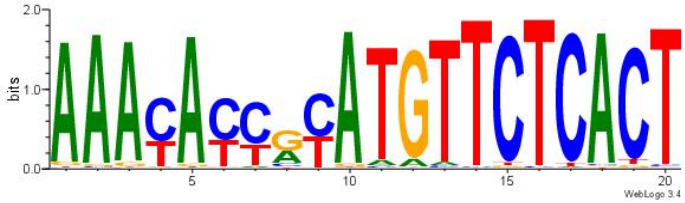

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.1338

Alignment:
GAAGGCAGCTAAGGCCCGGY
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

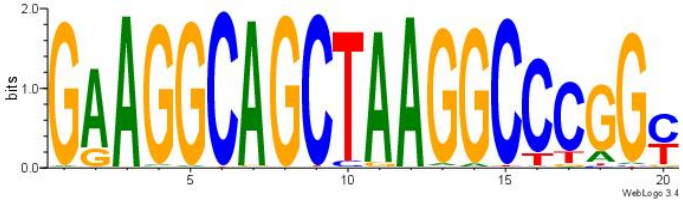

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

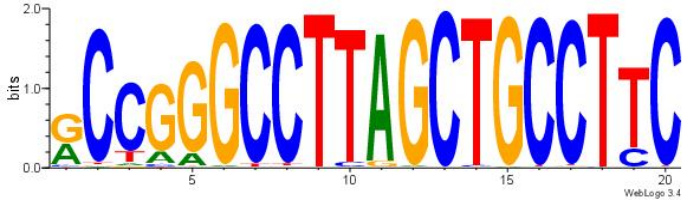

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135289

Alignment:
AGCTGTGAGAAGAGGGCCAC
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

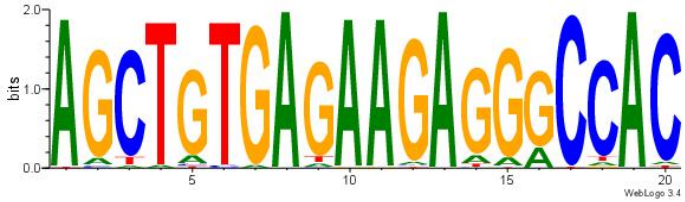

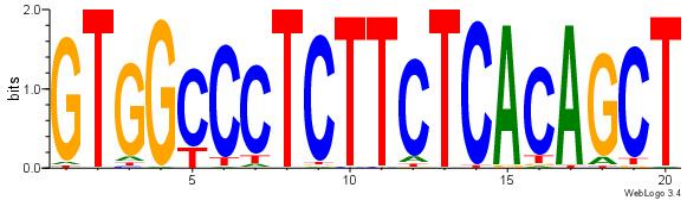

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135795

Alignment:

```
CAGGTGGTKTTTGGTTACAT
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

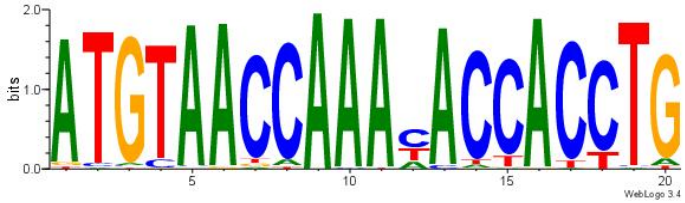

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

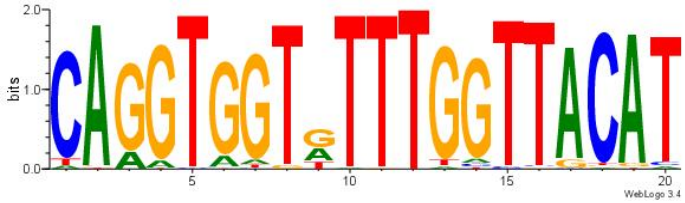

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136691

Alignment:

```
TTGTCCCACTGGAAGGTCTT
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

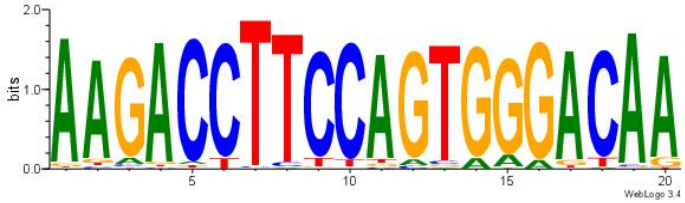

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

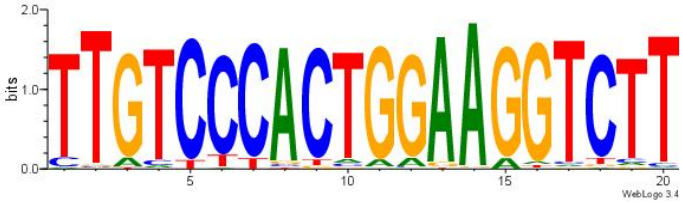

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136768

Alignment:
GAATACCTCCTGAAGGACCT
AWTKKTGGTTKCCAGKGGCT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

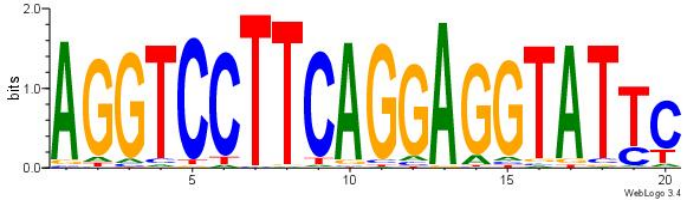

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

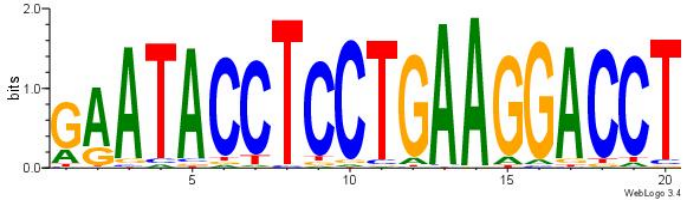

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.137194

Alignment:
GCTGTGTGACCTTGGGCAAG
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

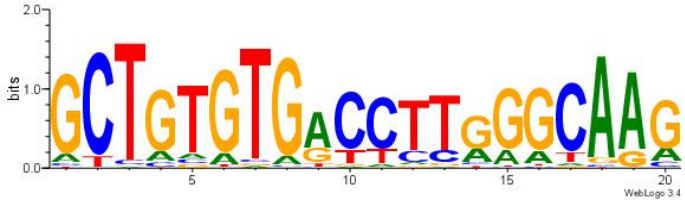

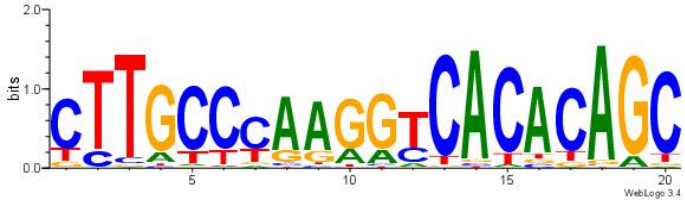

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137207

Alignment:

```
ACTTTGGACTGTGGACTTTT
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

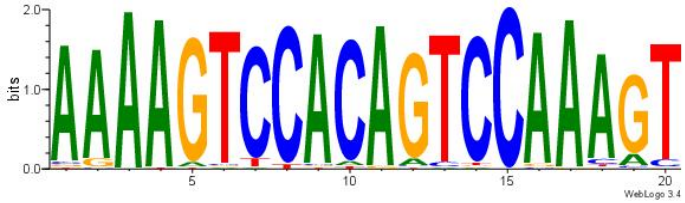

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

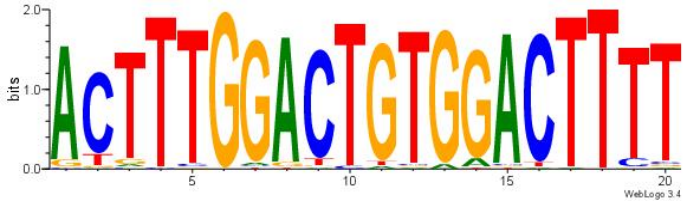

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138066

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AWTKKTGGTTKCCAGKGGCT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

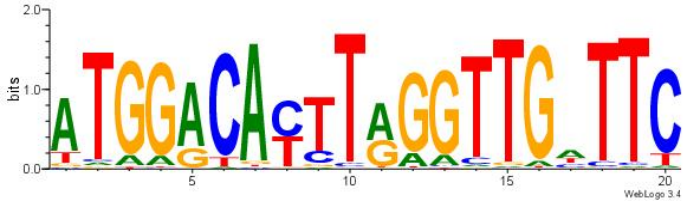

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

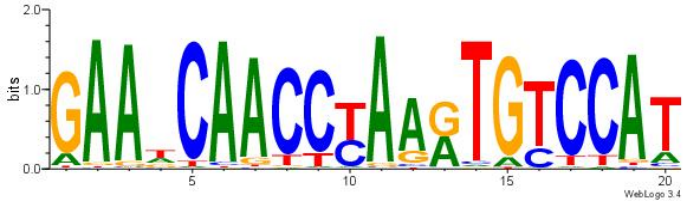

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.13821

Alignment:
TCCCTCCCGGACGGGGYGGC
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

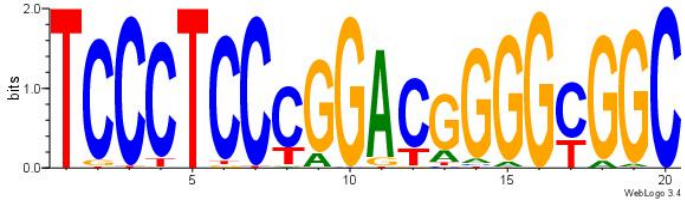

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

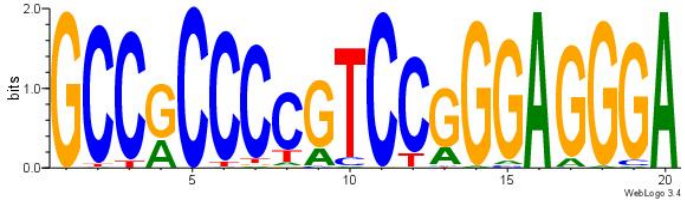

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138822

Alignment:
CCCMKGGCACCCTCAGTCCT
AGCCYCTGGYAACCAYYAWT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

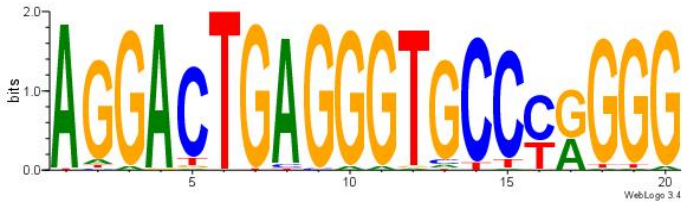

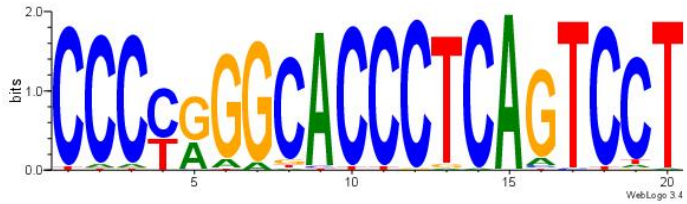

Dataset #: 1 Motif ID: 140 Motif name: Motif 140

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

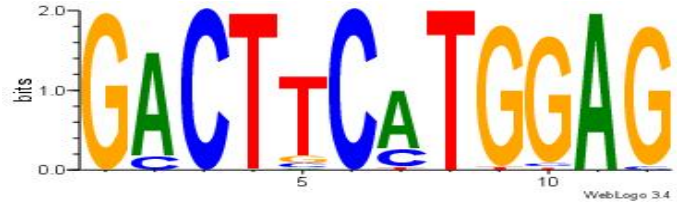

Best Matches for Motif ID 140 (Highest to Lowest)

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0741011

Alignment:

```
GACTTCAAGAATGAAGCCG
GACTTCATGGAG-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

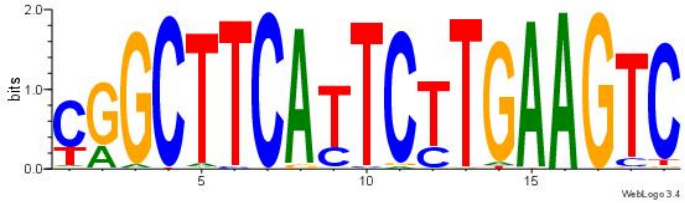

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0805058

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-------GACTTCATGGAG-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

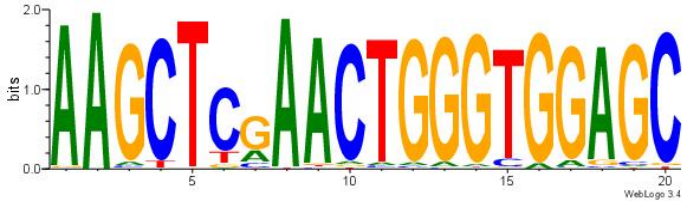

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

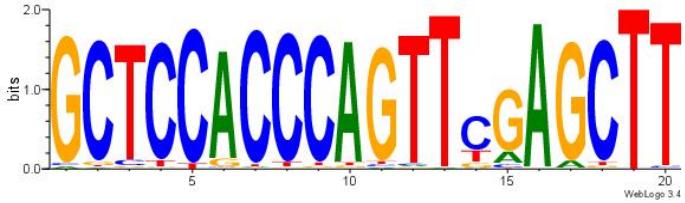

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0841075

Alignment:

```
GAGACTCCGTGGGCGT
--GACTTCATGGAG--
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

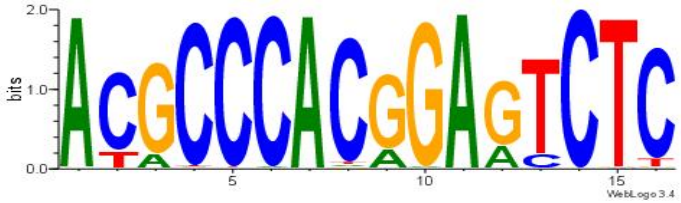

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

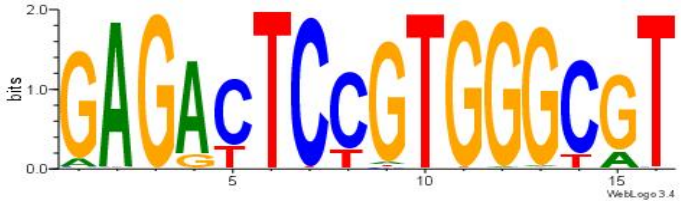

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0844469

Alignment:
CCTCCGTGGGCTCC
-CTCCATGAAGTC-

Original motif Consensus sequence: CCTCCGTGGGCTCC

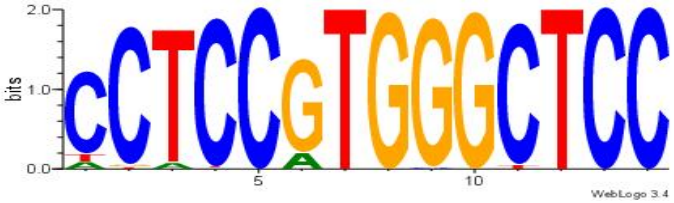

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

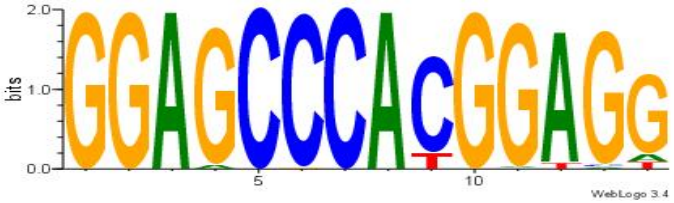

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0846544

Alignment:
AGGTCCTTCAGGAGGTATTC
-----CTCCATGAAGTC---

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

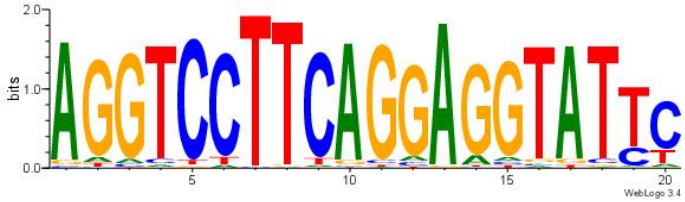

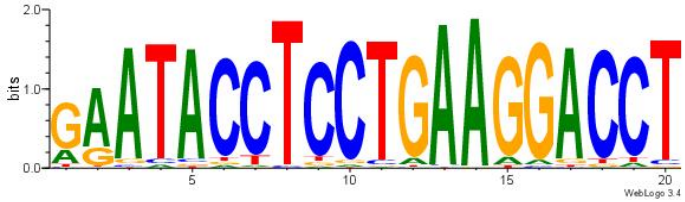

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0851377

Alignment:

```
TGGCTTCACCCAGTGGATCC
-GACTTCATGGAG-------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

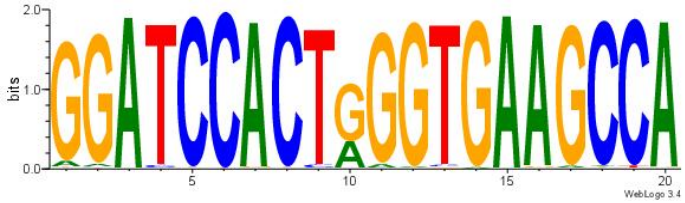

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

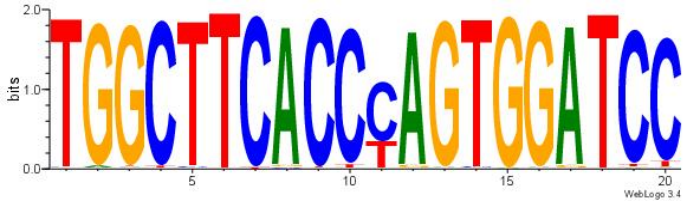

Dataset #:	1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0862881

Alignment:

```
GAGAACACATGGACA
--GACTTCATGGAG-
```

Original motif Consensus sequence: GAGAACACATGGACA

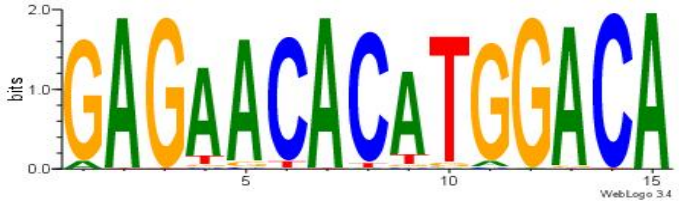

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

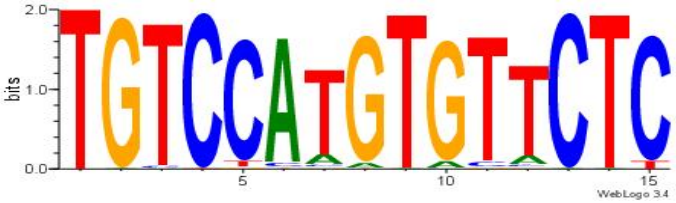

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0872866

Alignment:
GGCATCACGGATCCTACCAA
GACTTCATGGAG--------

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

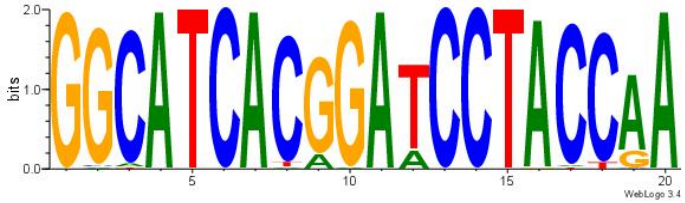

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

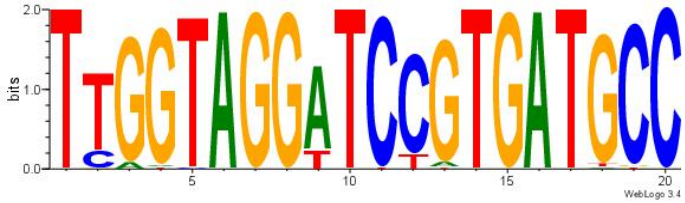

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0890778

Alignment:
CACTTCCTAGATGG
--GACTTCATGGAG

Original motif Consensus sequence: CACTTCCTAGATGG

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

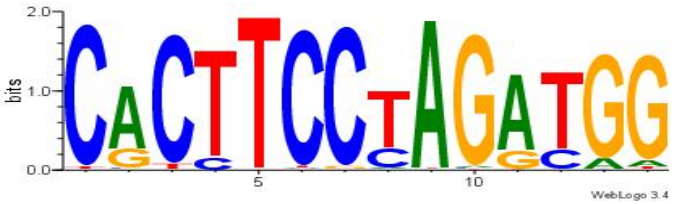

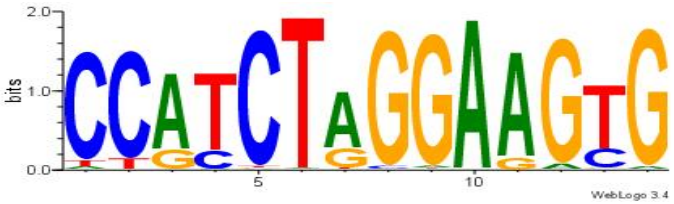

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0925431

Alignment:

```
GCGGCAGCAAGGC
-CTCCATGAAGTC
```

Original motif Consensus sequence: GCCTTGCTGCCGC

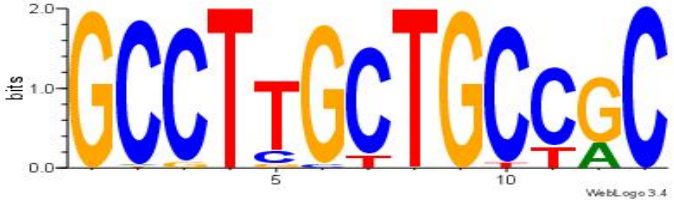

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

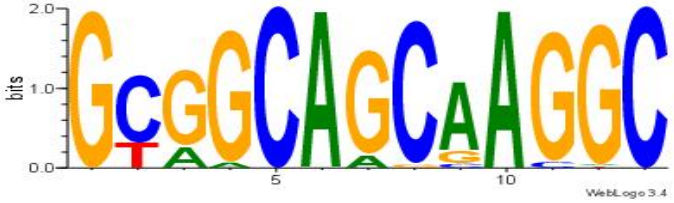

Dataset #:	1
Motif ID:	331

Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0936817

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
--CTCCATGAAGTC------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

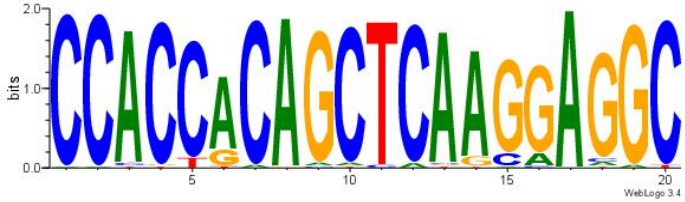

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

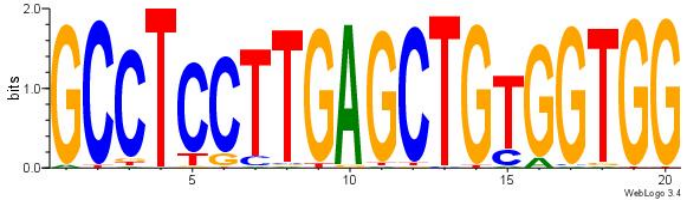

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0952355

Alignment:
GGRCKCACWGGAGC
-GACTTCATGGAG-

Original motif Consensus sequence: GCTCCWGTGYGKCC

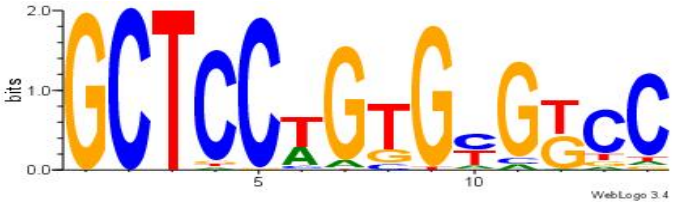

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0957141

Alignment:
GCCKCCCCGTCCGGGAGGGA
-----GACTTCATGGAG---

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

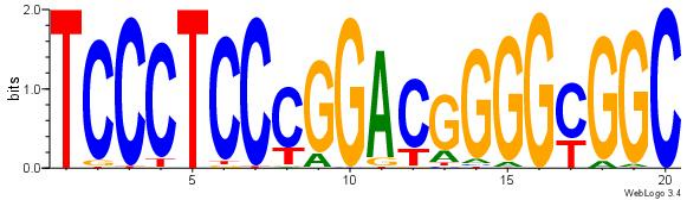

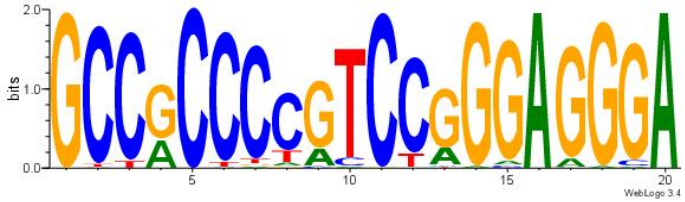

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.096215

Alignment:

```
CKCGTCSGGGAGG
GACTTCATGGAG-
```

Original motif Consensus sequence: CCTCCCSGACGRG

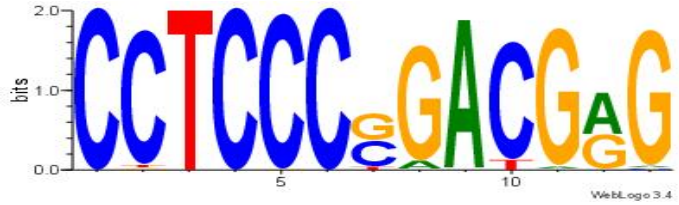

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

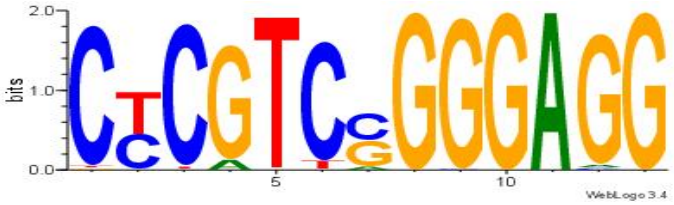

Dataset #:	1
Motif ID:	153

Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0962937

Alignment:

```
CACTAGGGAGTGCC
CTCCATGAAGTC--
```

Original motif Consensus sequence: CACTAGGGAGTGCC

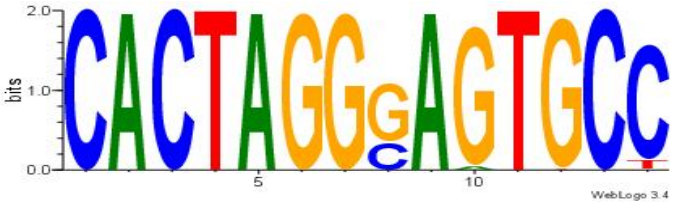

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

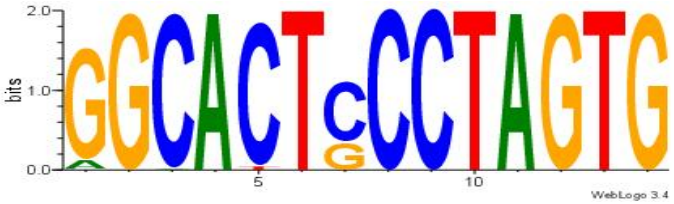

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0973498

Alignment:
CCTCCCAGCCGCCT
-CTCCATGAAGTC-

Original motif Consensus sequence: AGGCGGCTGGGAGG

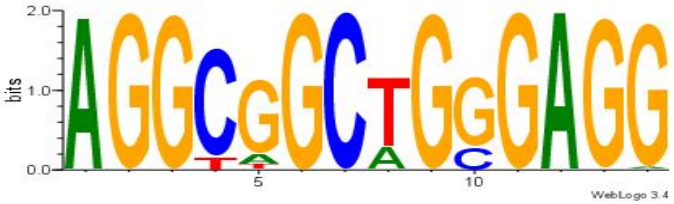

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0982235

Alignment:
GCGCTCKTCGGGGAGGCTCG
---GACTTCATGGAG-----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

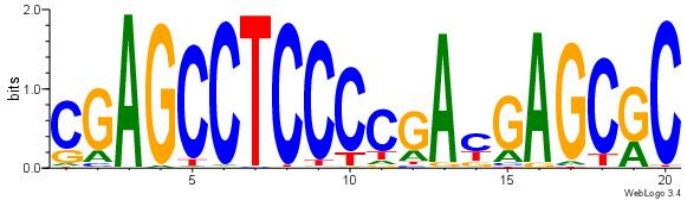

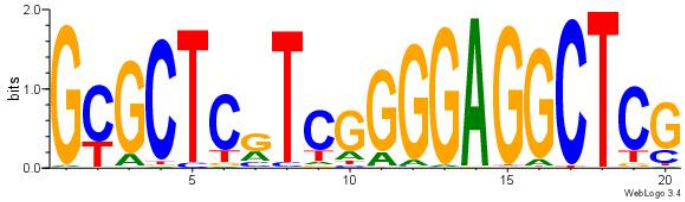

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0992699

Alignment:

```
TGGGTTCYTGGTC
-GACTTCATGGAG
```

Original motif Consensus sequence: GACCAMGAACCCA

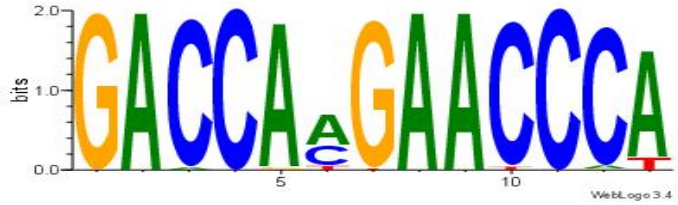

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

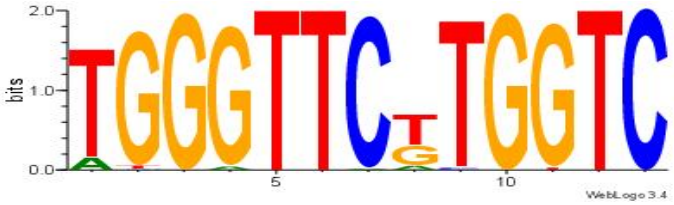

Dataset #:	1
Motif ID:	192

Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0998678

Alignment:

```
ACAGGCTGTCCCAGGATTC
-------CTCCATGAAGTC
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

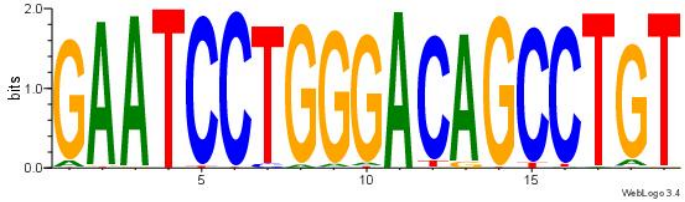

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

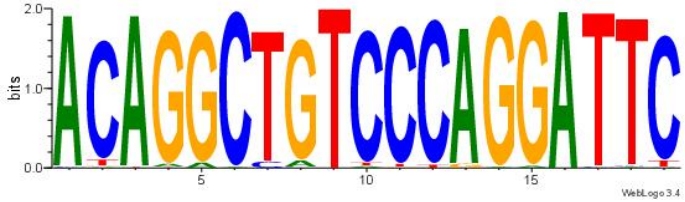

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0998999

Alignment:
CAGGCGGCTGGGAG
--GACTTCATGGAG

Original motif Consensus sequence: CAGGCGGCTGGGAG

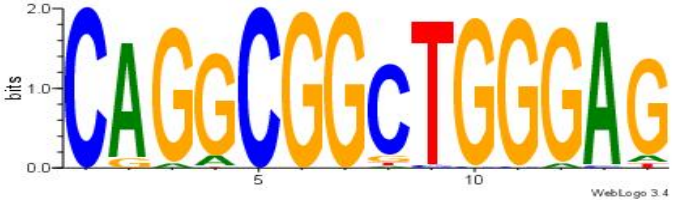

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

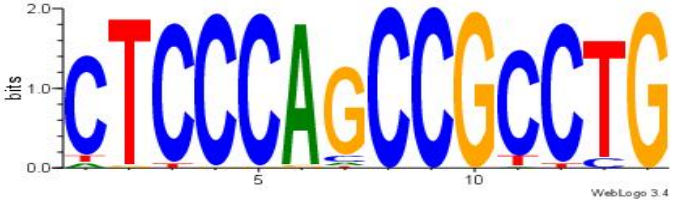

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.100485

Alignment:
AAAACCAGCAAGTTTTTAT
--CTCCATGAAGTC-----

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

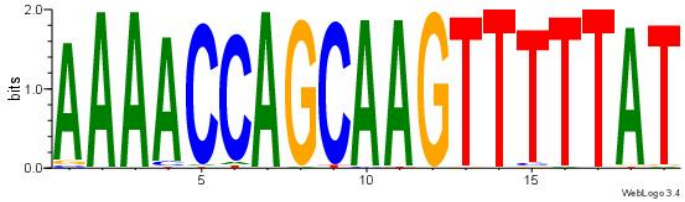

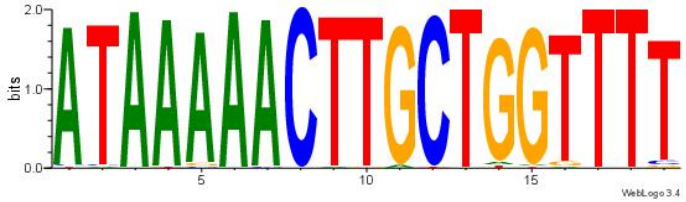

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.100805

Alignment:

```
CCCATGCAAGTCYRAAATCC
CTCCATGAAGTC--------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

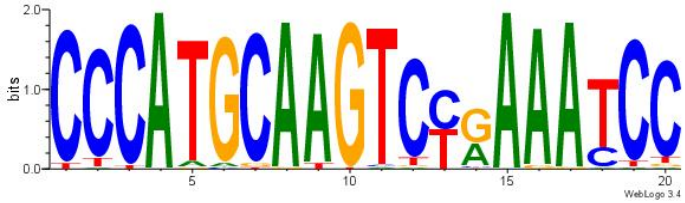

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

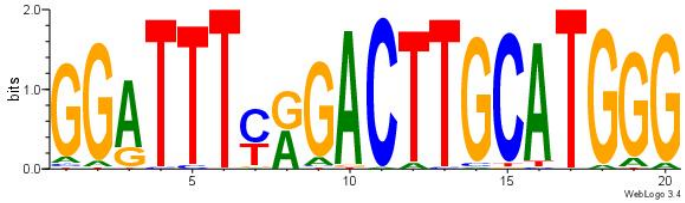

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.101169

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
------CTCCATGAAGTC--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

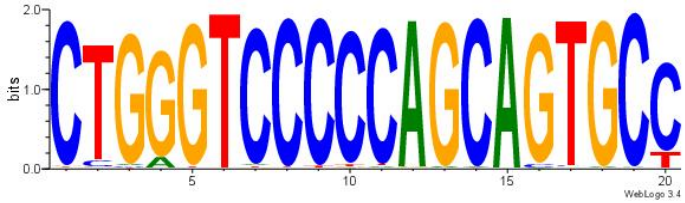

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

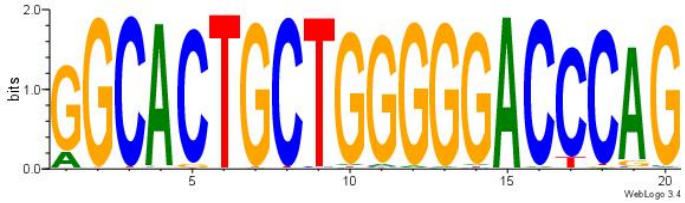

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.10138

Alignment:
CACTTCCCAGACGGGGCG
------GACTTCATGGAG

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

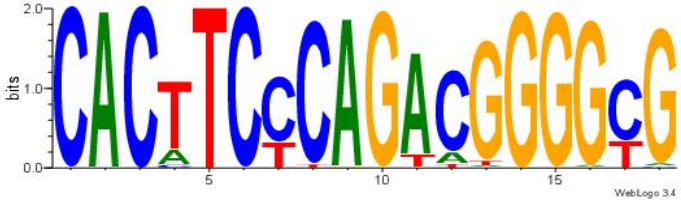

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

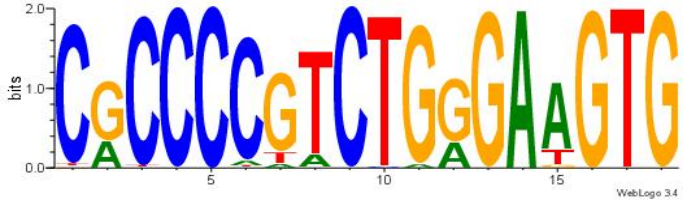

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.101549

Alignment:
CCCTCACTGCCCGGGG
GACTTCATGGAG----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

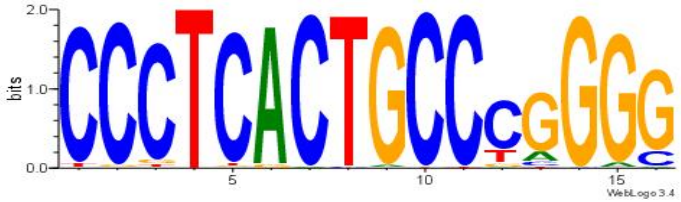

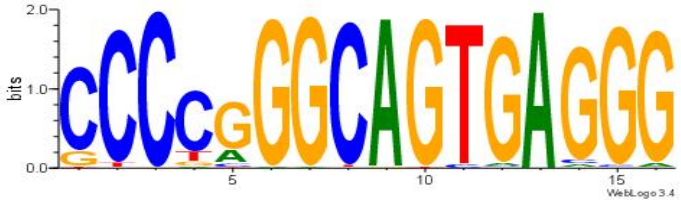

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.10177

Alignment:
ACCCAATWTGTAGTCTTTTA
---CTCCATGAAGTC-----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

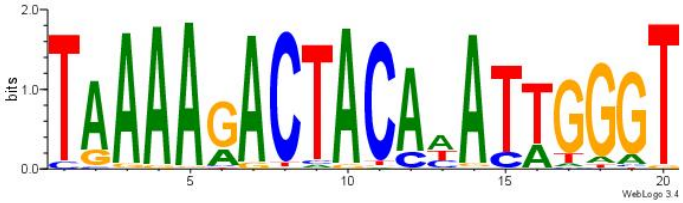

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

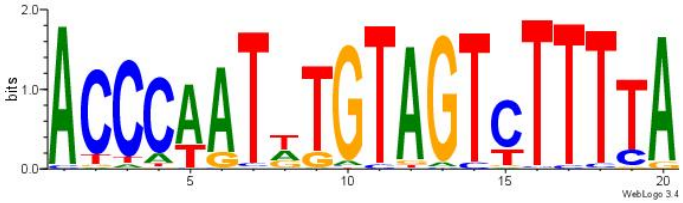

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.101947

Alignment:

```
GGGTGCAGGMGGGCTGAGT
--CTCCATGAAGTC-----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

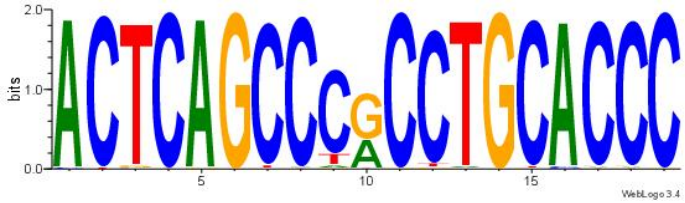

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

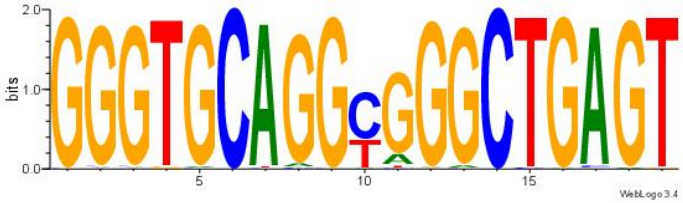

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.102632

Alignment:
CACCAGGAGATTATATCCCR
CTCCATGAAGTC--------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

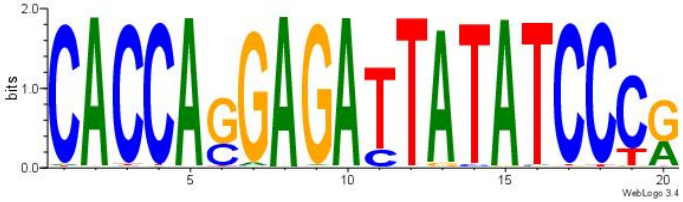

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

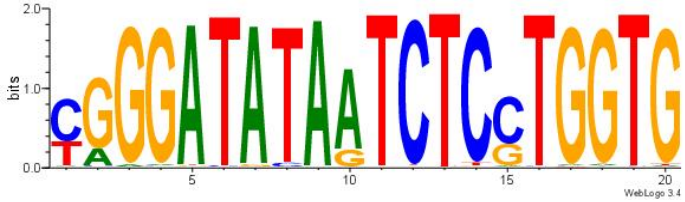

Dataset #: 1
Motif ID: 141
Motif name: Motif 141
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.102816

Alignment:
AAGGTCCATGTAG
-GACTTCATGGAG

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

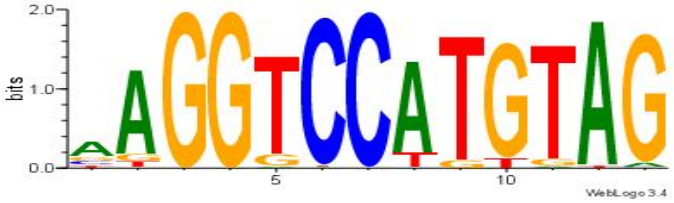

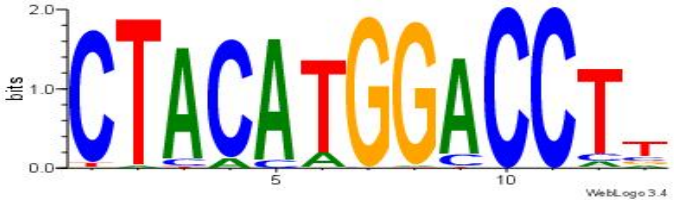

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.1032

Alignment:

```
TGGATGGATGGATGGAT
-GACTTCATGGAG----
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

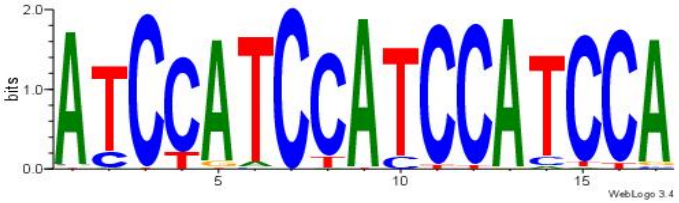

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1

Motif ID:	156
Motif name:	Motif 156
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.104261

Alignment:

```
GTCTGGGAAGTG
CTCCATGAAGTC
```

Original motif Consensus sequence: CACTTCCCAGAC

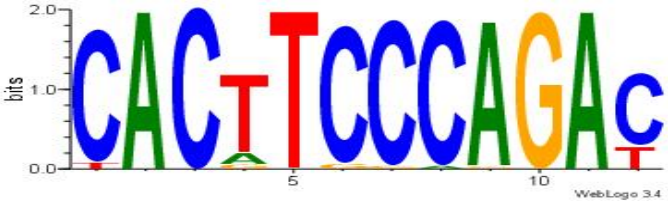

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

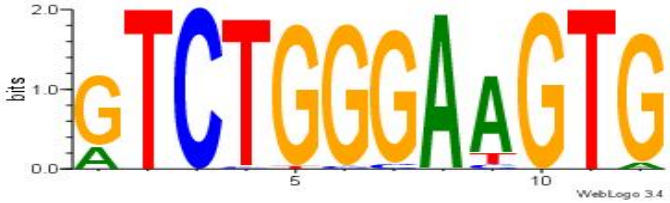

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.104349

Alignment:
ATGATCCAGCAATYCCACTH
---CTCCATGAAGTC-----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

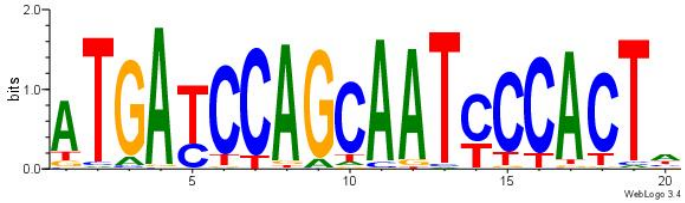

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

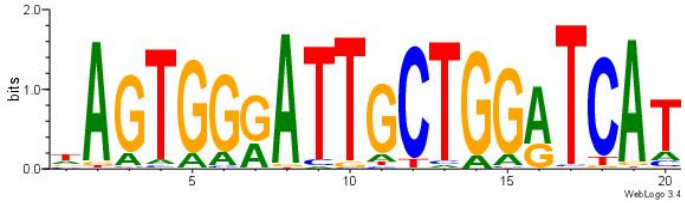

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.104555

Alignment:
CTCCTGACCTCGTGATC
-----GACTTCATGGAG

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

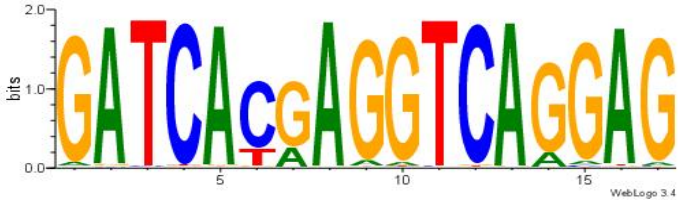

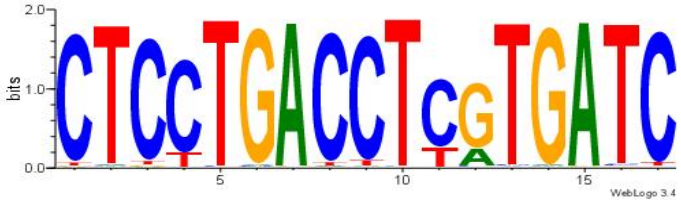

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.104636

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
----GACTTCATGGAG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

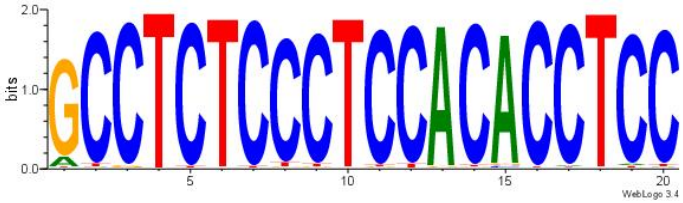

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

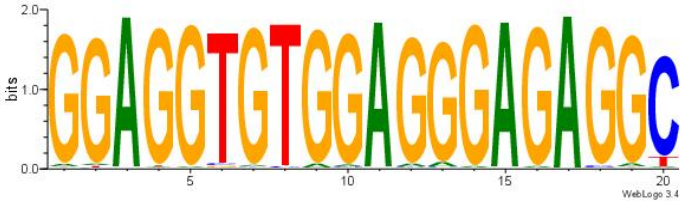

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.104663

Alignment:

```
VMATTTAKTGAGCACCTACT
GACTTCATGGAG--------
```

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

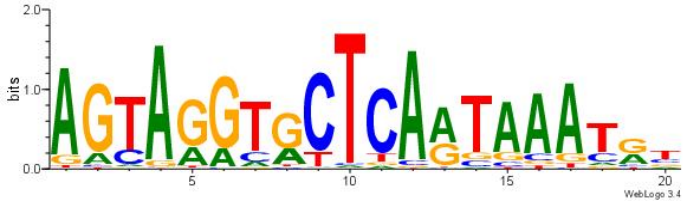

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

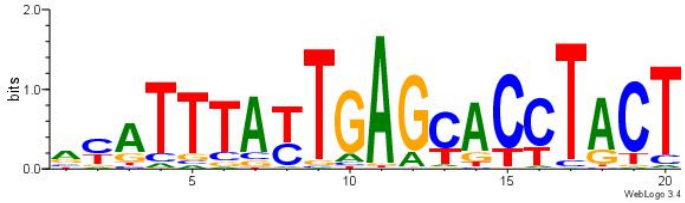

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.104711

Alignment:
ACACATCACAAAGCAGTTTC
------CTCCATGAAGTC--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

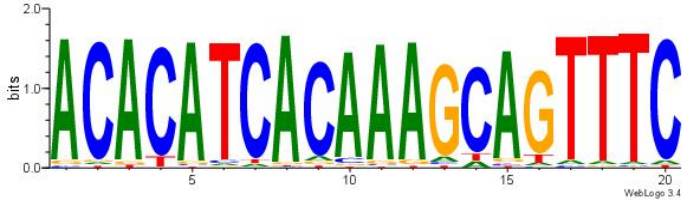

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

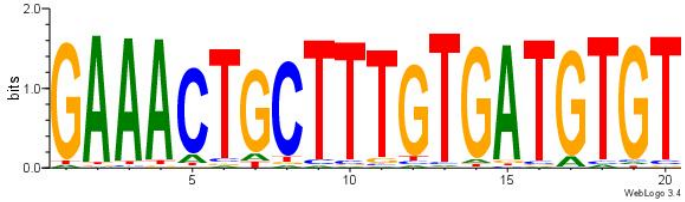

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.106645

Alignment:
TGAGKCAATTAAACCTCTT
----CTCCATGAAGTC---

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

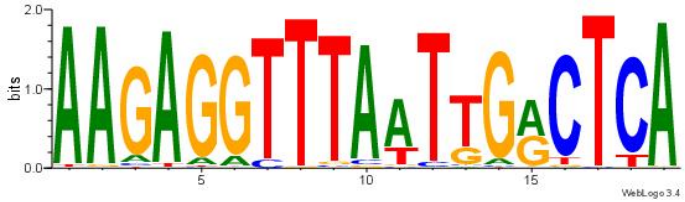

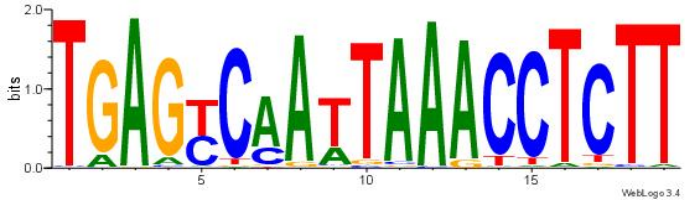

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.106842

Alignment:

```
GGGGTGATGGACG
GACTTCATGGAG-
```

Original motif Consensus sequence: CGTCCATCACCCC

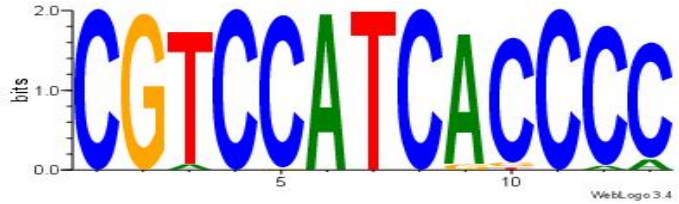

Reverse complement motif Consensus sequence: GGGGTGATGGACG

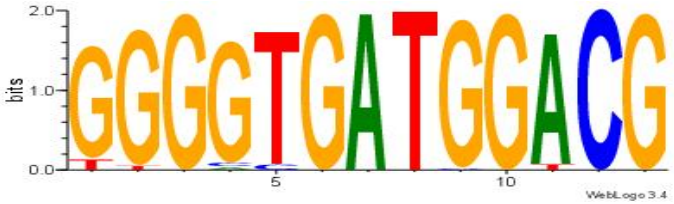

Dataset #:	1
Motif ID:	6

Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.107069

Alignment:

```
GAGSTTGCAGTGAGC
--GACTTCATGGAG-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

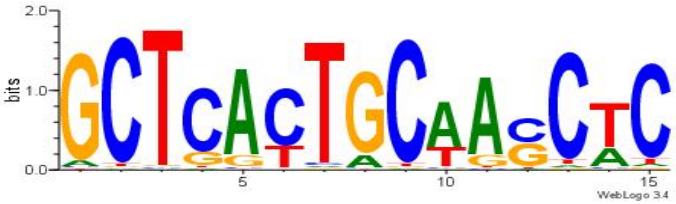

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

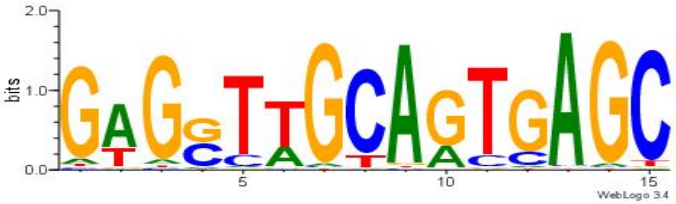

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.109031

Alignment:
AAGCTGAGGGAGCCGGCTCC
--------GACTTCATGGAG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

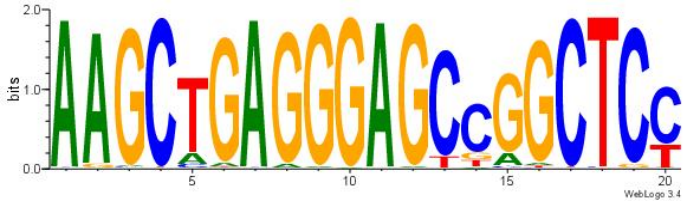

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

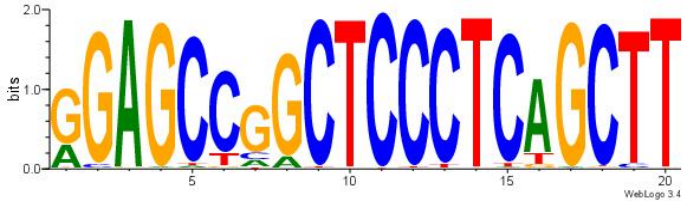

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.111638

Alignment:
GTAACACTCACCGCGARGGT
--------CTCCATGAAGTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

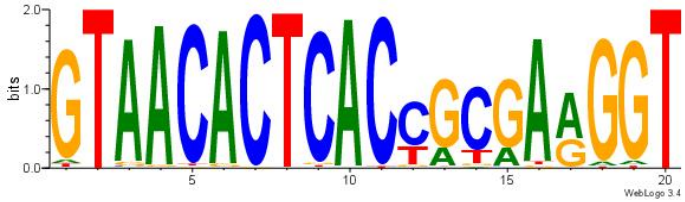

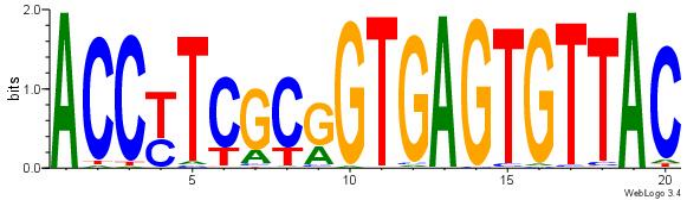

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.112233

Alignment:

```
CTGAGGACCTGAGGTCRTA
----CTCCATGAAGTC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

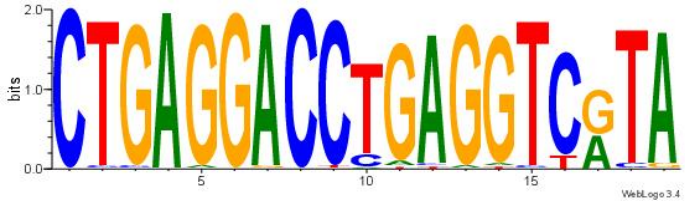

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

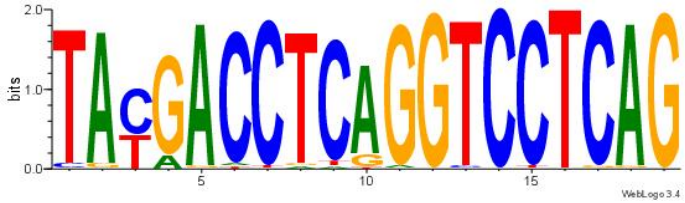

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.112316

Alignment:

```
AATGAKATCATGTCYTTTGC
---GACTTCATGGAG-----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

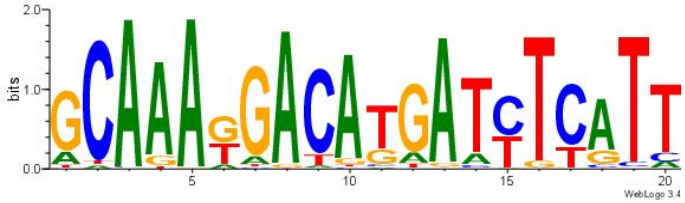

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

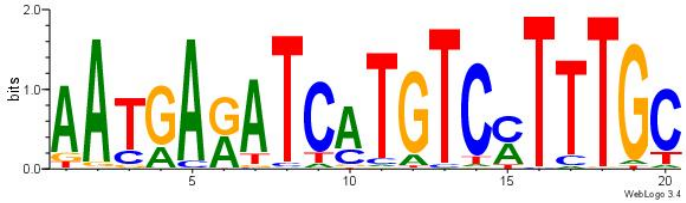

Dataset #:	1
Motif ID:	126
Motif name:	Motif 126
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.11239

Alignment:
AYGCCTGTAATC
CTCCATGAAGTC

Original motif Consensus sequence: AYGCCTGTAATC

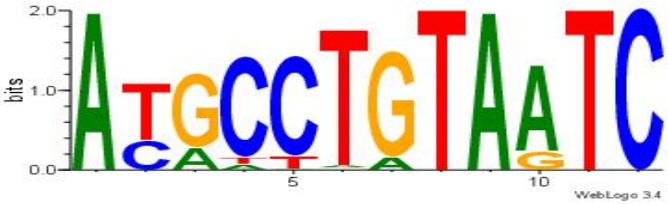

Reverse complement motif Consensus sequence: GATTACAGGCMT

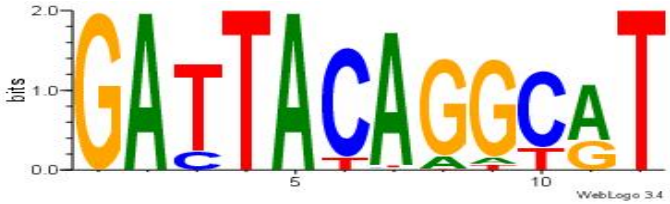

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.113345

Alignment:
CTCATTTAATCCTCACAAC
CTCCATGAAGTC-------

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

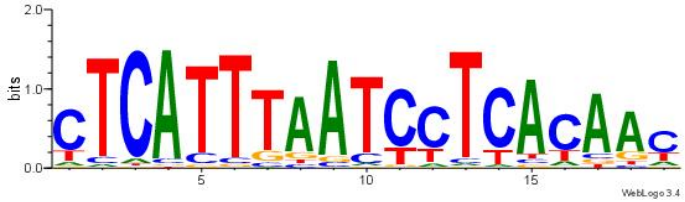

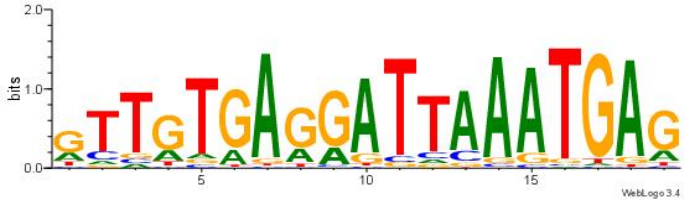

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.113536

Alignment:

```
AAAMAMMKMATGTTCTCACT
---CTCCATGAAGTC-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

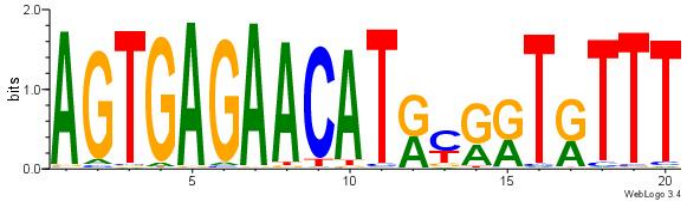

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

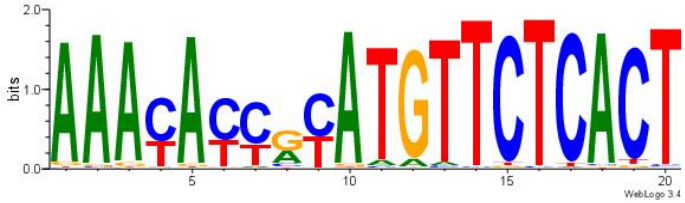

Dataset #:	1

Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.114248

Alignment:

```
HGCTCCTGTGSKCCC
--CTCCATGAAGTC-
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

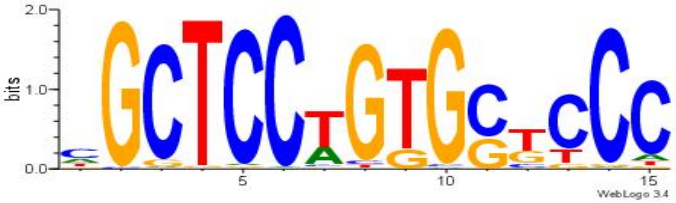

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.114487

Alignment:
TGATACCCAGGCAAACAG
----CTCCATGAAGTC--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

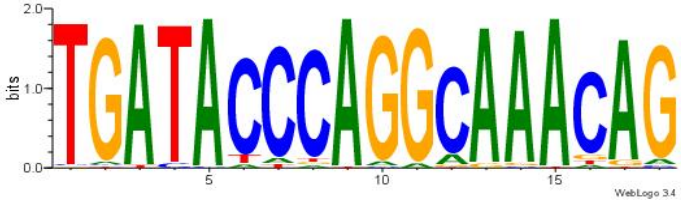

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

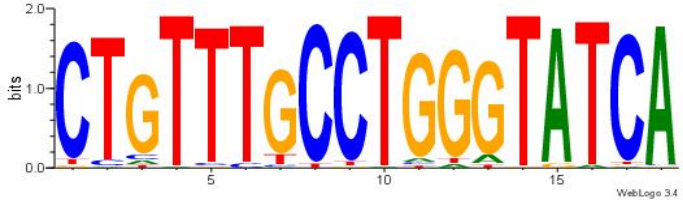

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.114612

Alignment:
KKCACCTTGATCTTGGACTT
------CTCCATGAAGTC--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

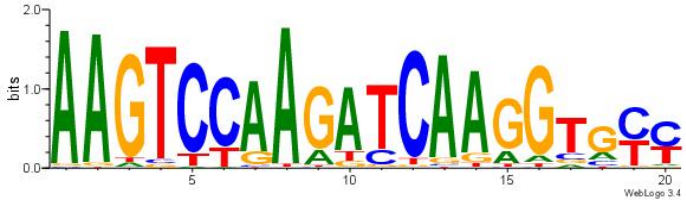

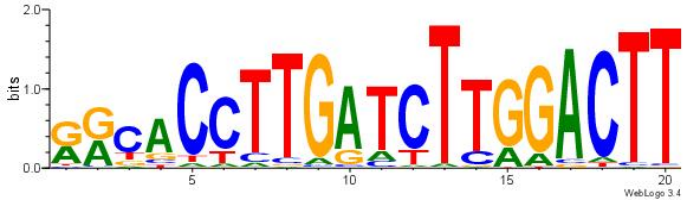

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.114632

Alignment:

```
TACACCCTCCGCAGCC
CTCCATGAAGTC----
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

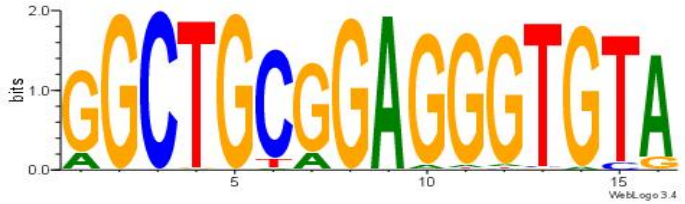

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

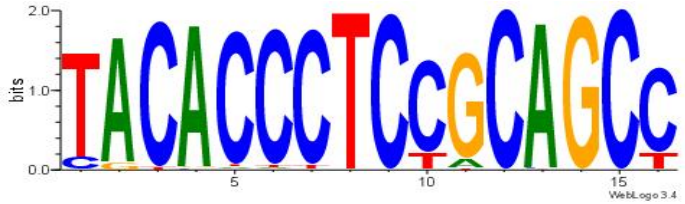

Dataset #: 1 Motif ID: 141 Motif name: Motif 141

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

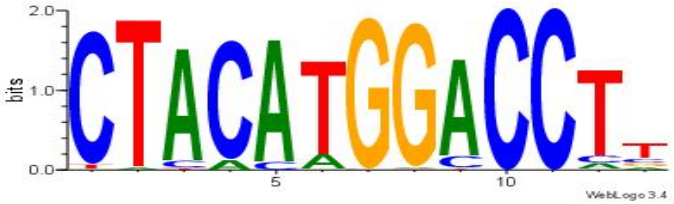

Best Matches for Motif ID 141 (Highest to Lowest)

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0879979

Alignment:

```
CCCTGCTAGAACCTCCAA
--CTACATGGACCTT---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

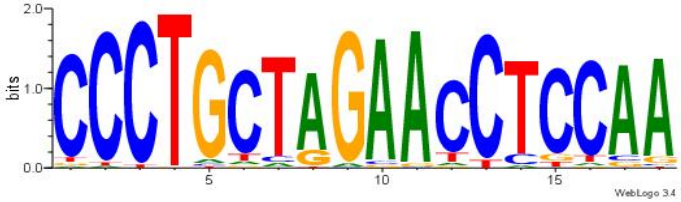

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

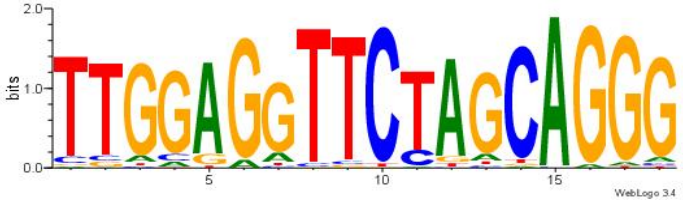

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0909434

Alignment:

```
GCACATGTAYCCYAGAACTT
CTACATGGACCTT-------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

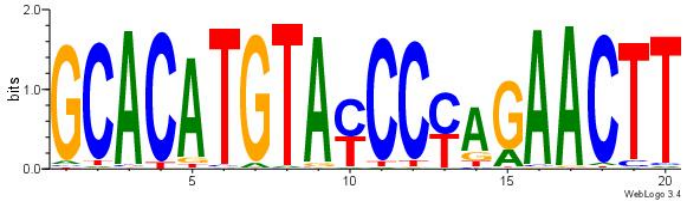

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

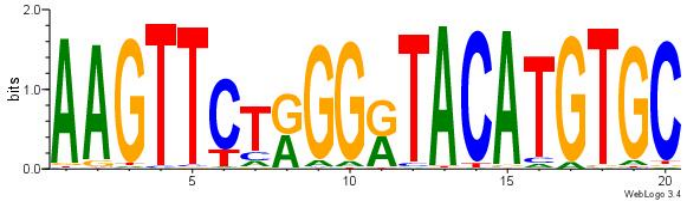

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 13
Similarity score: 0.0949678

Alignment:
CTCCAGKTMCATCCATGTTG
----AAGGTCCATGTAG---

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

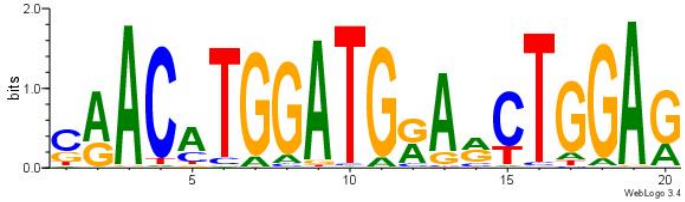

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

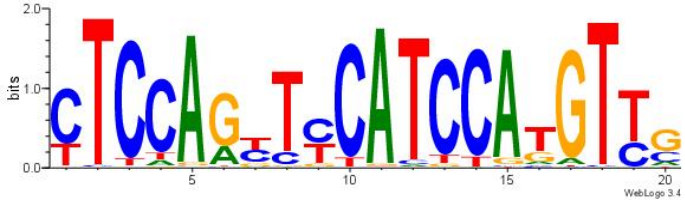

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.101755

Alignment:
AGGGCCTTTGCASWTGC
AAGGTCCATGTAG----

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

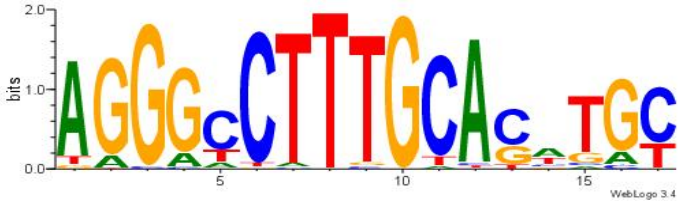

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

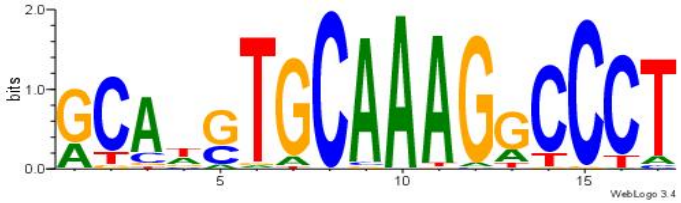

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.102169

Alignment:

```
TTGGTAGGATCCGTGATGCC
-----AAGGTCCATGTAG--
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

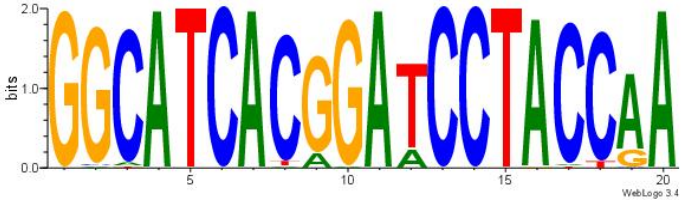

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

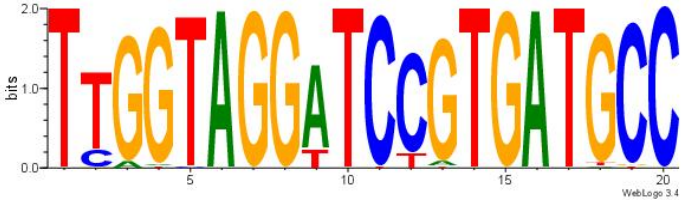

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.103618

Alignment:

```
AAGTCCAAGATCAAGGTGYY
------AAGGTCCATGTAG-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

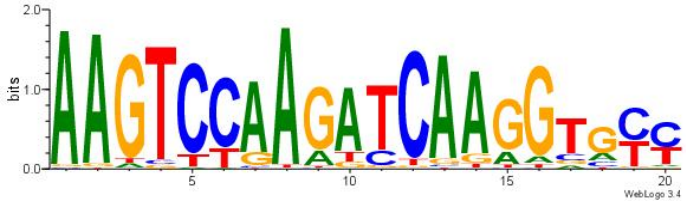

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

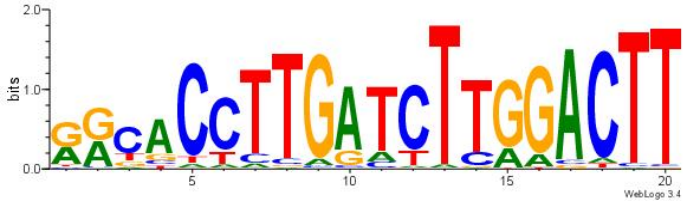

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.10525

Alignment:
CCTCCGTGGGCTCC
-CTACATGGACCTT

Original motif Consensus sequence: CCTCCGTGGGCTCC

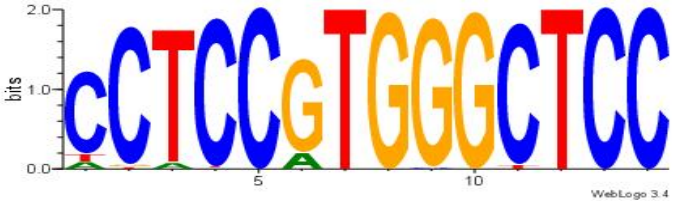

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

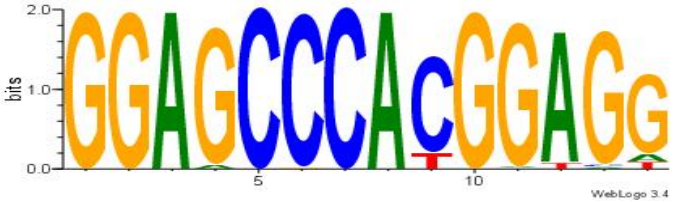

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.105524

Alignment:
AAGGGACATTKGAG
AAGGTCCATGTAG-

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

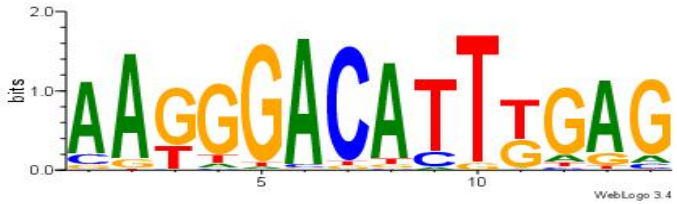

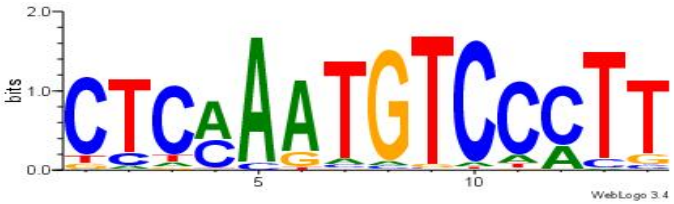

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106341

Alignment:

```
GATGTGTCTGGAG
AAGGTCCATGTAG
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

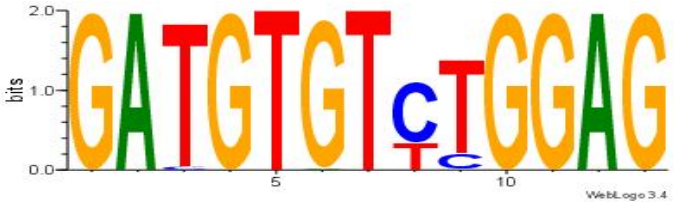

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106445

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AAGGTCCATGTAG-------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

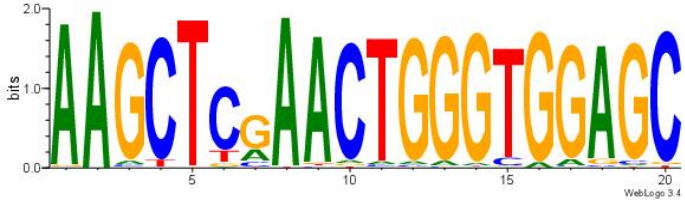

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

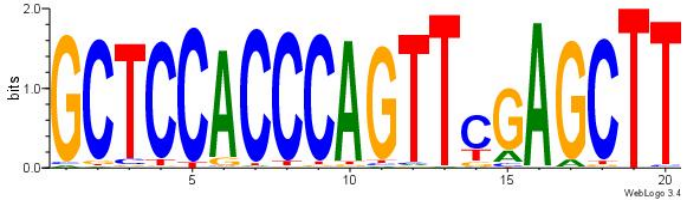

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.10651

Alignment:
CTGGTCAAGGAAA
AAGGTCCATGTAG

Original motif Consensus sequence: CTGGTCAAGGAAA

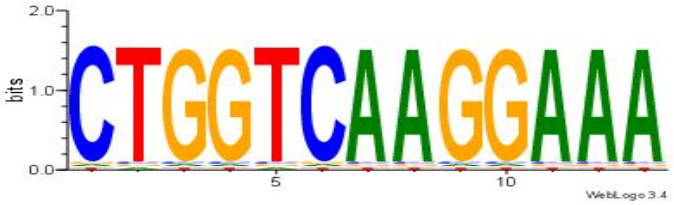

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

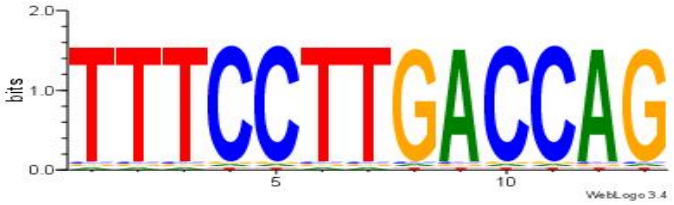

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.107562

Alignment:
ATTGGTGTATTTACAATCCC
-AAGGTCCATGTAG------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

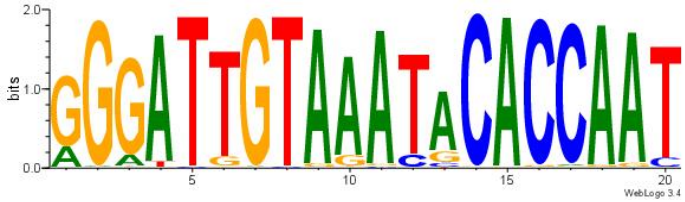

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.108207

Alignment:

```
AACCCTATTGTGAACTGYG
----CTACATGGACCTT--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

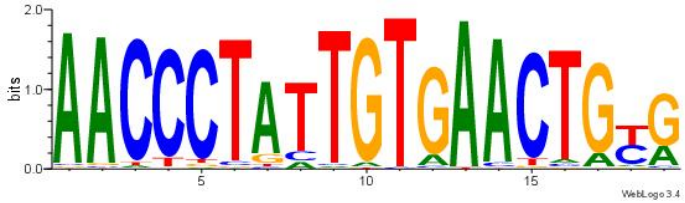

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

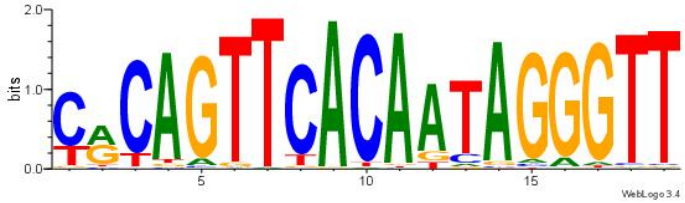

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.108447

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
------AAGGTCCATGTAG-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

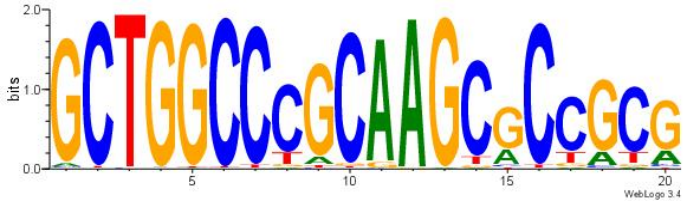

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

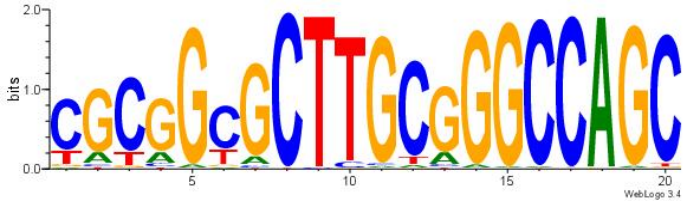

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.108546

Alignment:
CAAGGGTATAYGAGTAGCTG
-------CTACATGGACCTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

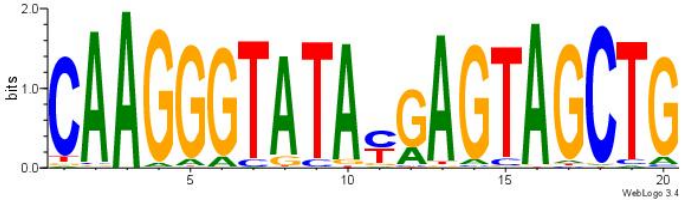

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

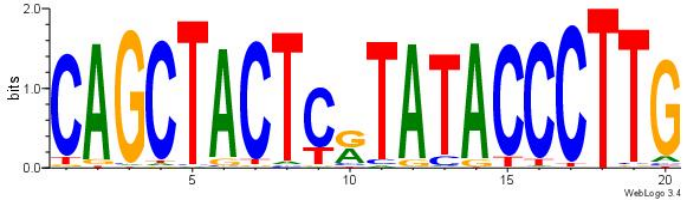

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.10897

Alignment:
AAAATGTGGTAYATAYAYAC
-----AAGGTCCATGTAG--

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

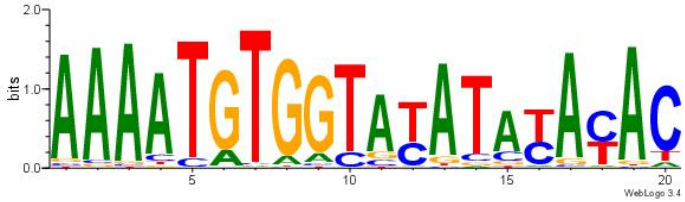

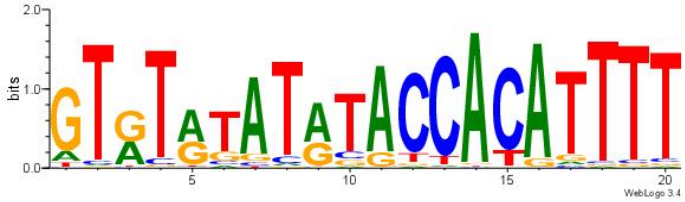

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.110085

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
---AAGGTCCATGTAG----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

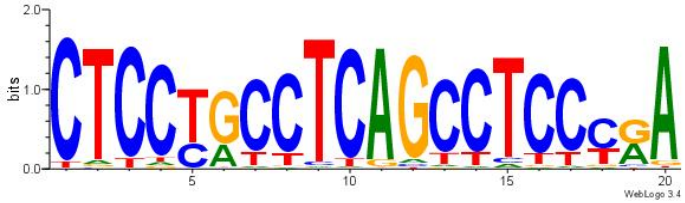

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

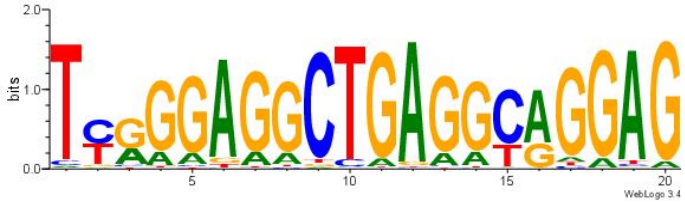

Dataset #:	1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.110405

Alignment:

```
TCCTATGAGAATCTAATG
--CTACATGGACCTT---
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

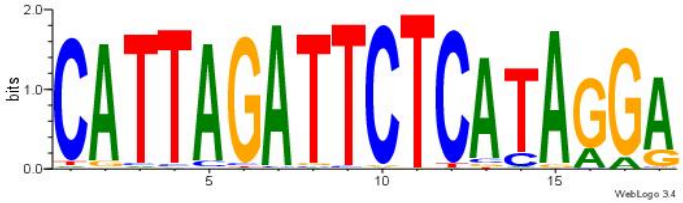

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

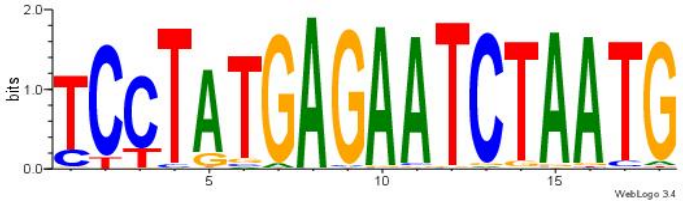

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.110448

Alignment:
GTCCCATCGACCACCCAAG
-----CTACATGGACCTT-

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

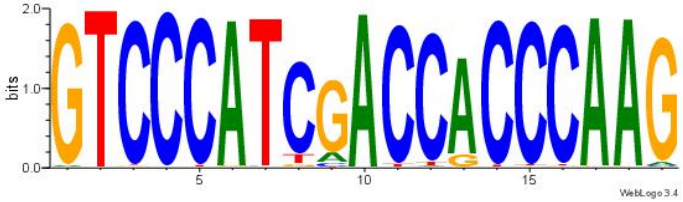

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

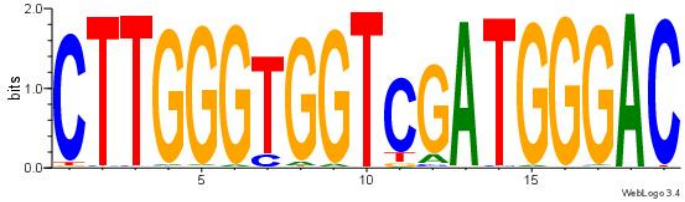

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110504

Alignment:
WACAATCAGACCTTG
-CTACATGGACCTT-

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

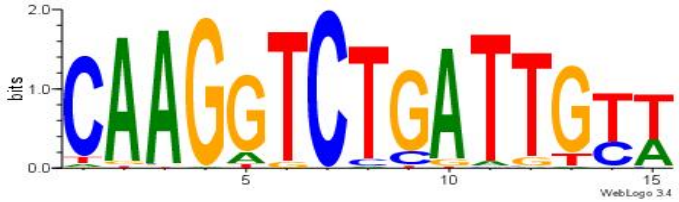

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.111268

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
--CTACATGGACCTT-----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

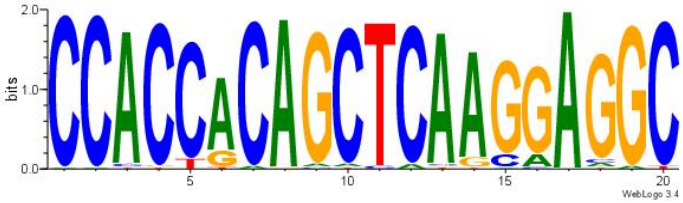

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

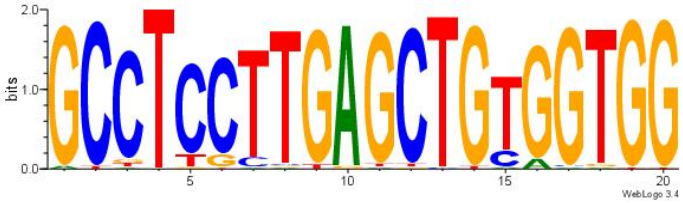

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.111577

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-----AAGGTCCATGTAG--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

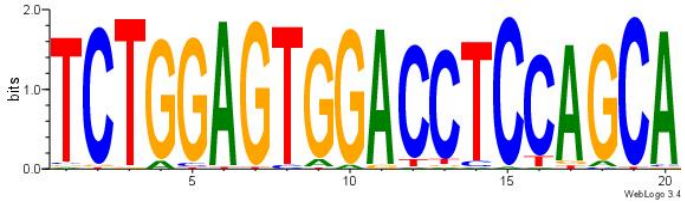

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

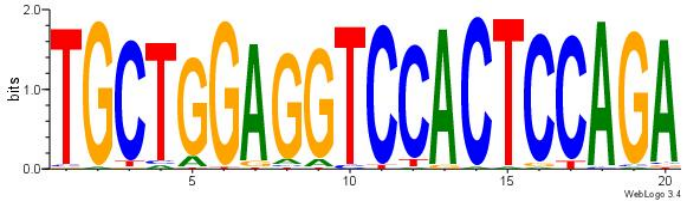

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.111792

Alignment:
AAGCAGGGCGAGGCATTGCC
---AAGGTCCATGTAG----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

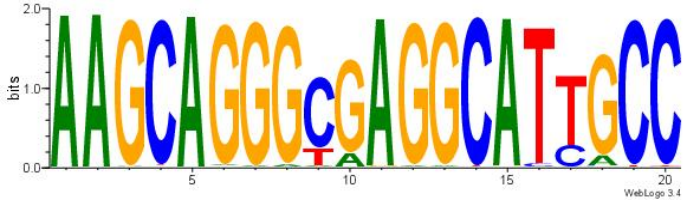

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

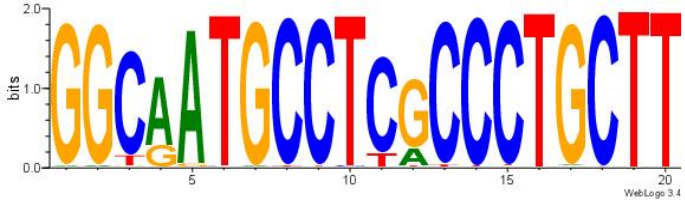

Dataset #: 1
Motif ID: 355
Motif name: Motif 355
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.112315

Alignment:
TATGAGCCTGTAA
AAGGTCCATGTAG

Original motif Consensus sequence: TATGAGCCTGTAA

Reverse complement motif Consensus sequence: TTACAGGCTCATA

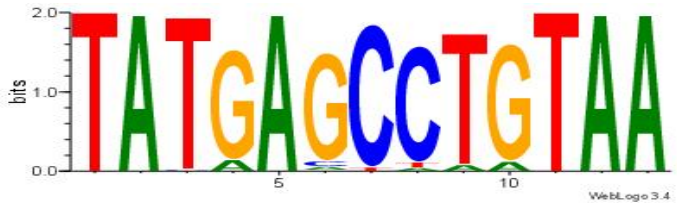

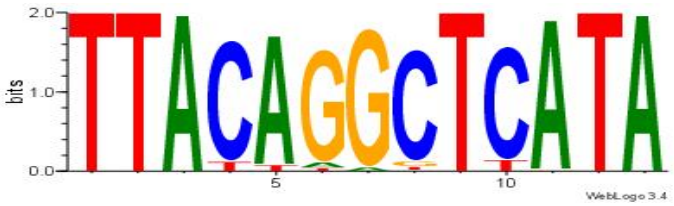

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.112461

Alignment:

```
GTTATTAATTGGCCTAATTT
---CTACATGGACCTT----
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

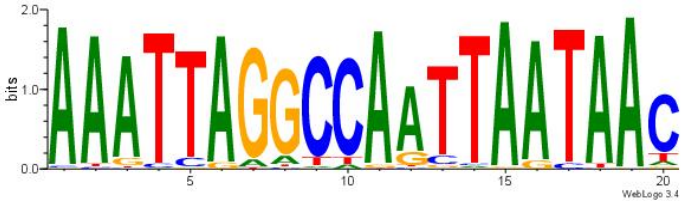

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.112467

Alignment:

```
AATGACCAATTGAGAGC
AAGGTCCATGTAG----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

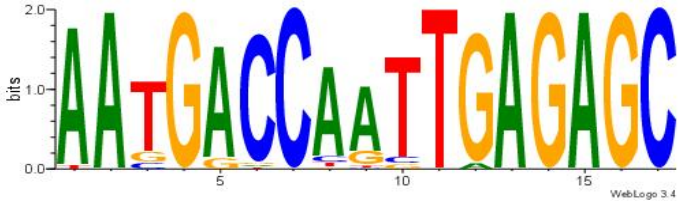

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

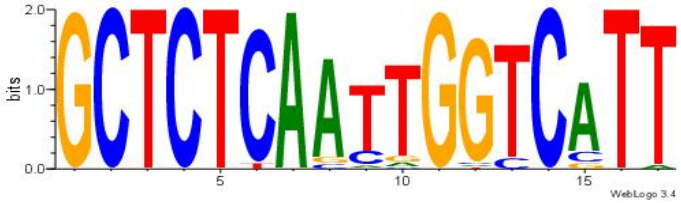

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.112746

Alignment:
AGGACTGAGGGTGCCYRGGG
-------AAGGTCCATGTAG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

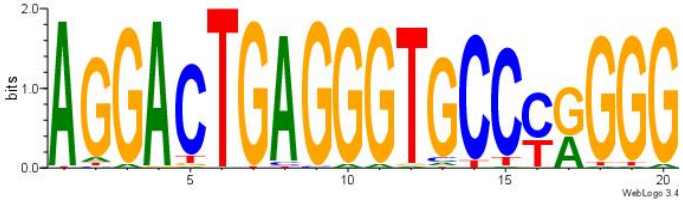

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

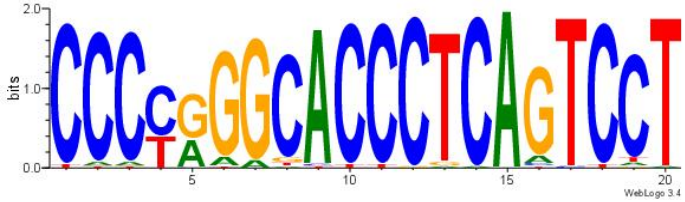

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.112847

Alignment:
AGGGATCTAGGTTGCR
-AAGGTCCATGTAG--

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

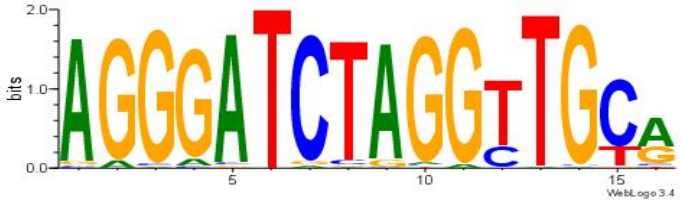

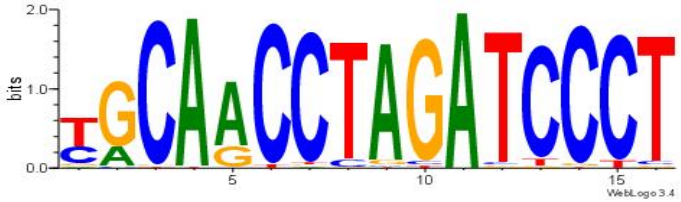

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.114325

Alignment:

```
TWTACCTATGTAACAAACCT
-------AAGGTCCATGTAG
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

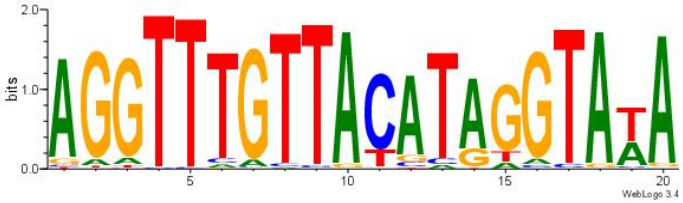

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

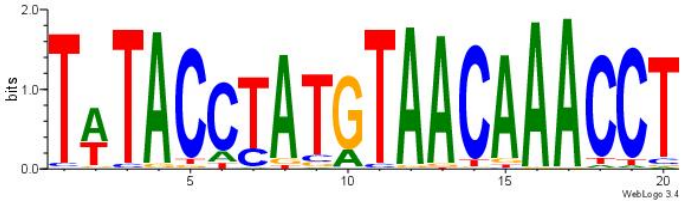

Dataset #: 1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.114996

Alignment:

```
CAAGCGCCAGCTCATGTC
-AAGGTCCATGTAG----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

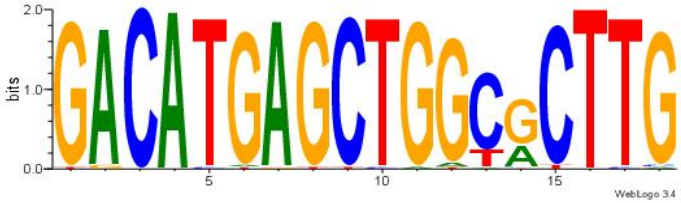

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

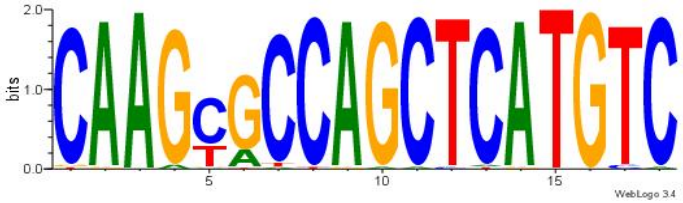

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.115255

Alignment:
CTTGCCCAAGGTCACACAGC
-AAGGTCCATGTAG------

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

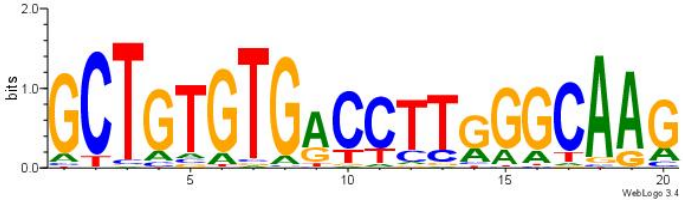

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

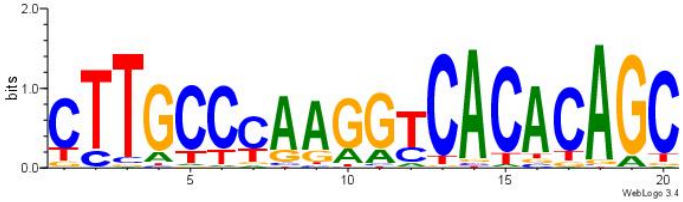

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.115578

Alignment:
TAGATAATAGCTCCAGCTTT
-------AAGGTCCATGTAG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

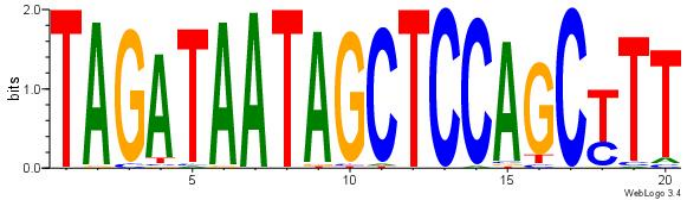

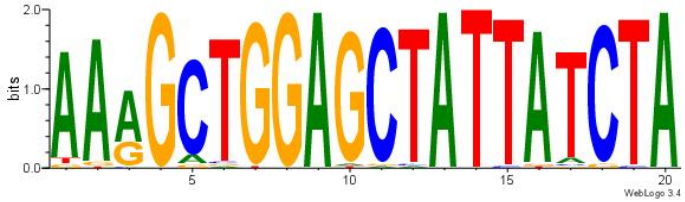

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.115773

Alignment:

```
GGTCAGGATCATCAATAT
---AAGGTCCATGTAG--
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

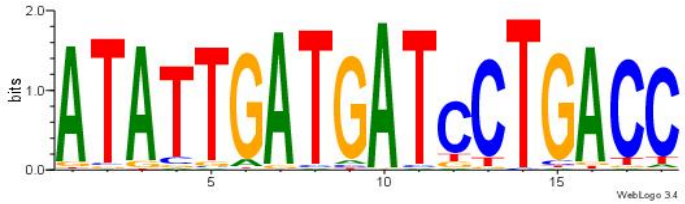

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

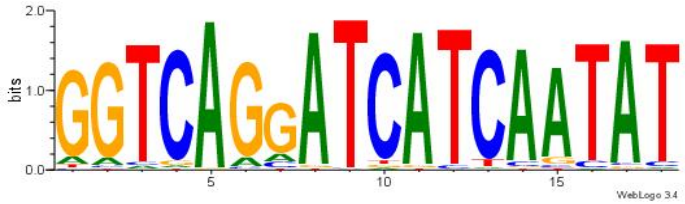

Dataset #:	1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.116484

Alignment:

```
MGAAGGGACTTGCCTTGT
--AAGGTCCATGTAG---
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

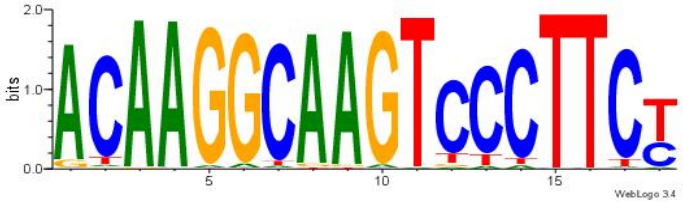

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

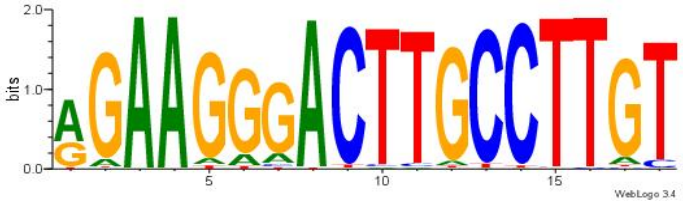

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.116983

Alignment:
GCTGGCCCKGGTGCTAAGC
-----AAGGTCCATGTAG-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

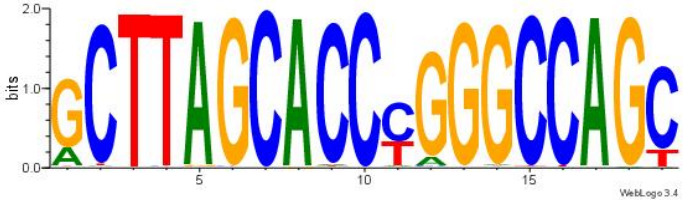

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

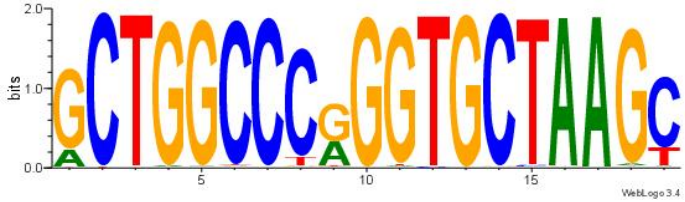

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.11715

Alignment:
GCTCACTGCAASCTC
-CTACATGGACCTT-

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

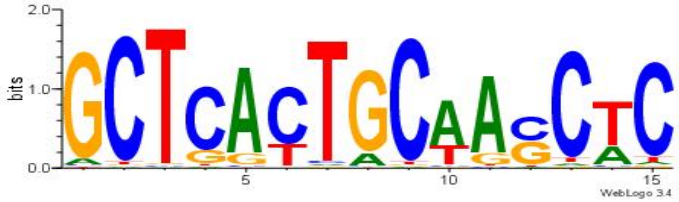

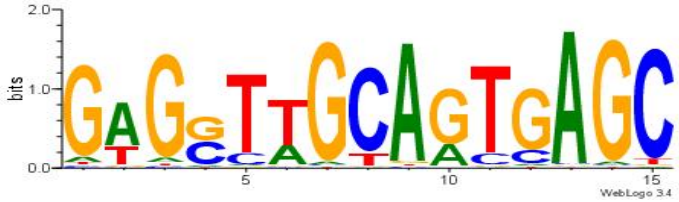

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.117302

Alignment:
ATTCAASATGAGATTTGGG
---CTACATGGACCTT---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

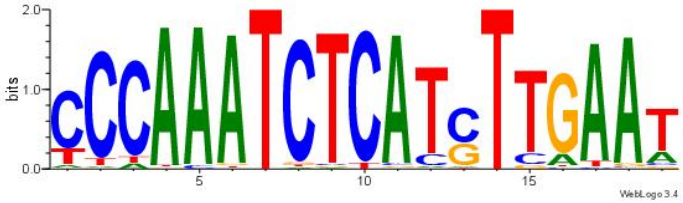

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

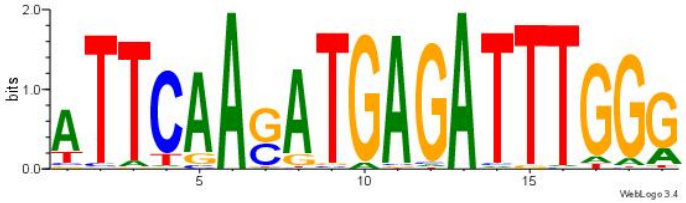

Dataset #: 1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.117304

Alignment:

```
CAAASCKGTCATAGGCCAT
------CTACATGGACCTT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

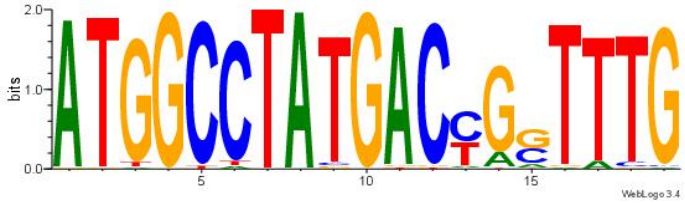

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

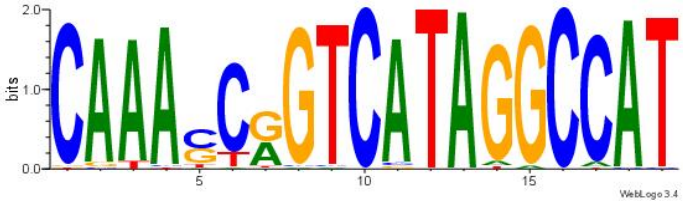

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.117446

Alignment:
MGTCTMKCTCTGTKGCCCAG
-------CTACATGGACCTT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

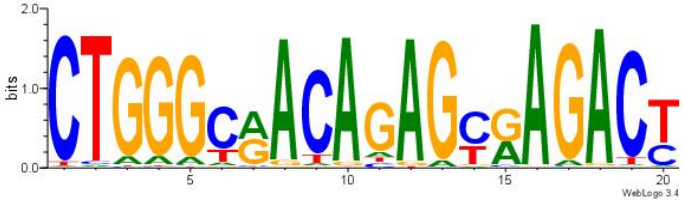

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

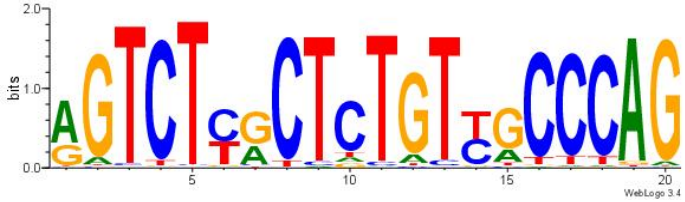

Dataset #: 1
Motif ID: 118
Motif name: Motif 118
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.117449

Alignment:
CTCARGTGATCCTCC
--CTACATGGACCTT

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

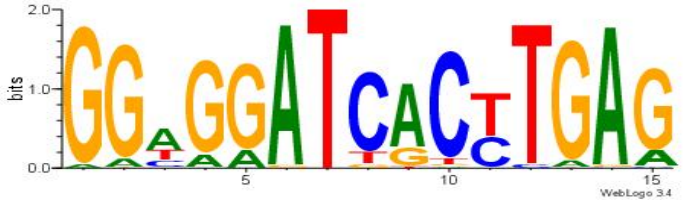

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.118001

Alignment:

```
TGTAKTCCCAGCTAC
AAGGTCCATGTAG--
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

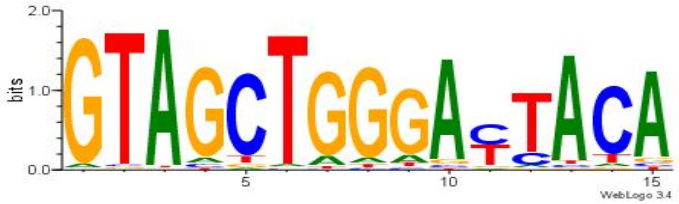

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

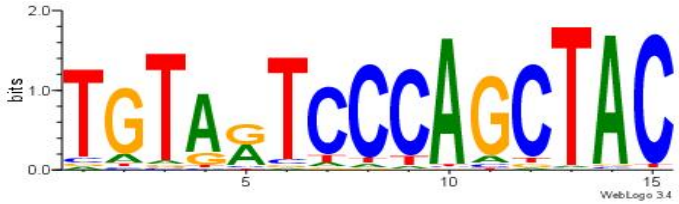

Dataset #:	1
Motif ID:	171

Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.118458

Alignment:

```
ACTTTGGACTGTGGACTTTT
------CTACATGGACCTT-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

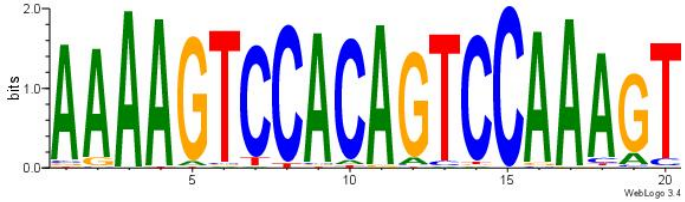

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

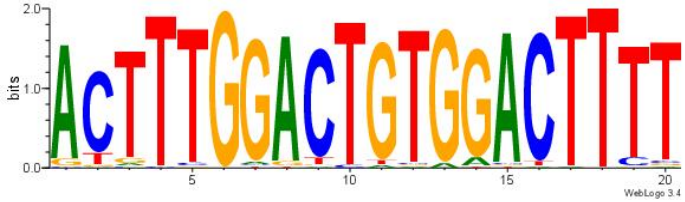

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.118589

Alignment:
AAGAGGTTTAATTGRCTCA
--AAGGTCCATGTAG----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

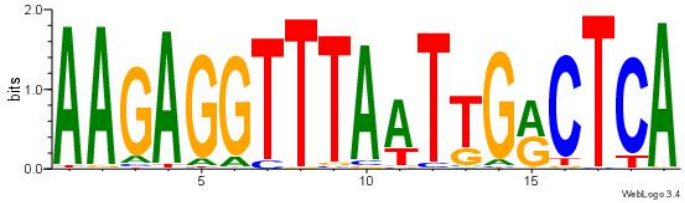

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

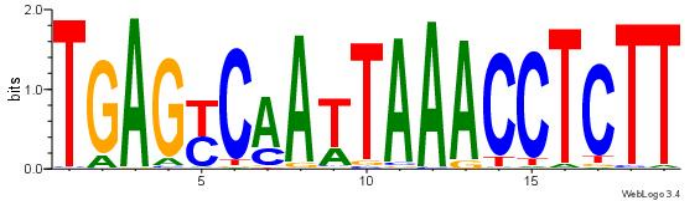

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.118651

Alignment:
ATCATTCTTATGCCTTTG
---CTACATGGACCTT--

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence:
ATCATTCTTATGCCTTTG

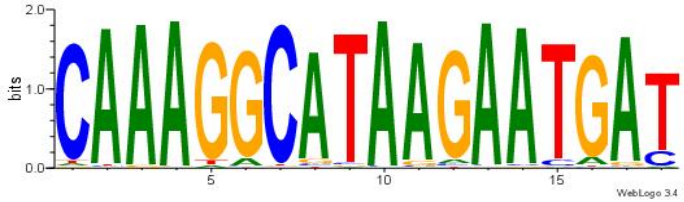

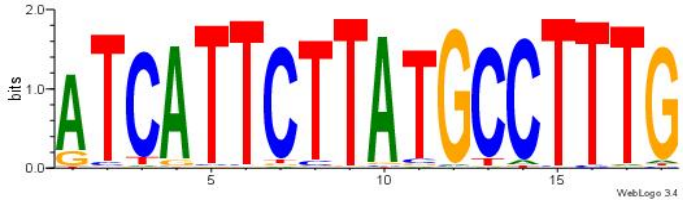

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.119448

Alignment:

```
TTTTCACATGCCTTTCT
-CTACATGGACCTT---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

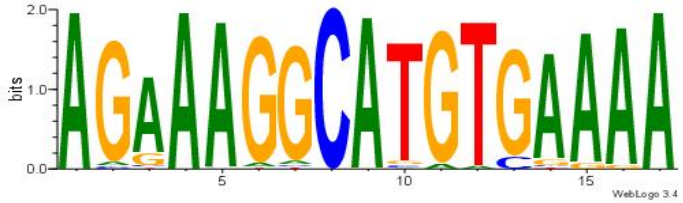

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

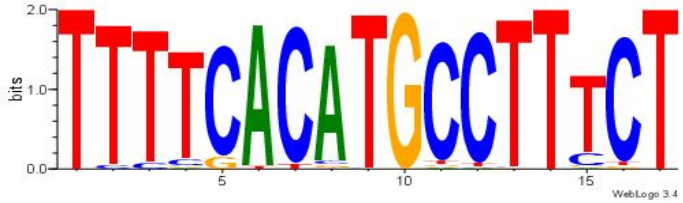

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.119695

Alignment:

```
CATTTCCAWCTGAGGTAC
AAGGTCCATGTAG-----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

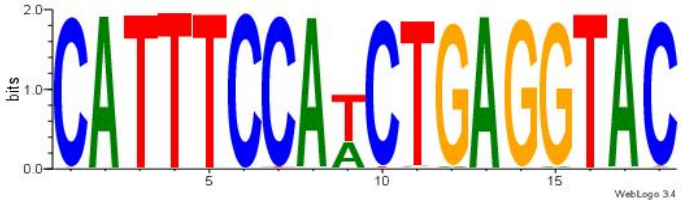

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

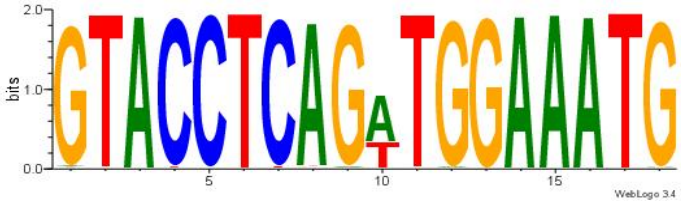

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.119711

Alignment:
CCGCACTCGGAGCRG
CTACATGGACCTT--

Original motif Consensus sequence: CCGCACTCGGAGCRG

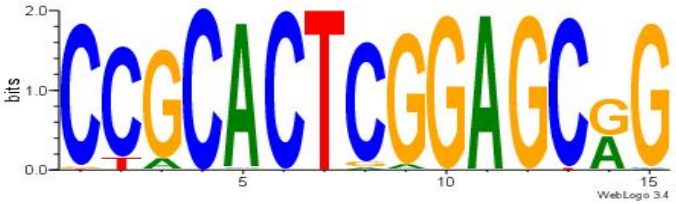

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

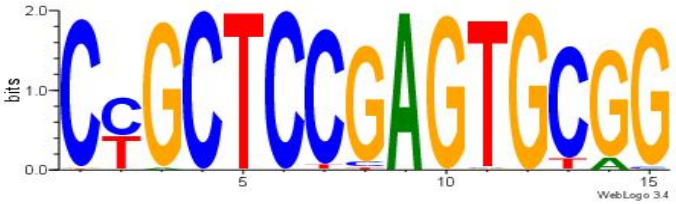

Dataset #: 1
Motif ID: 148
Motif name: Motif 148
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.119956

Alignment:
AAAGAGAGTCAGCGAAG
----AAGGTCCATGTAG

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

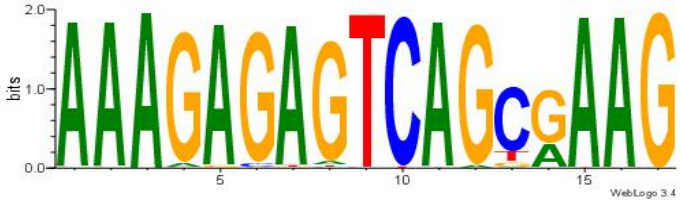

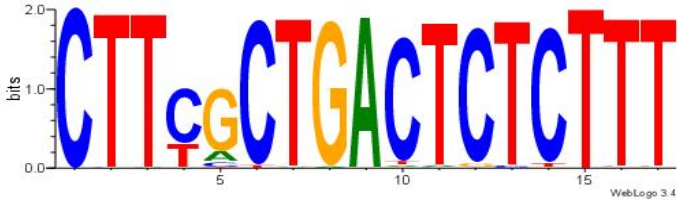

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.120152

Alignment:

```
GTGCCAGGCACTGTKCTARG
-------CTACATGGACCTT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

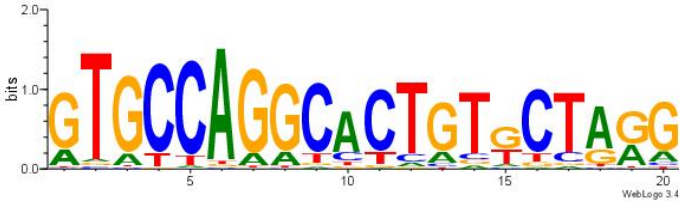

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

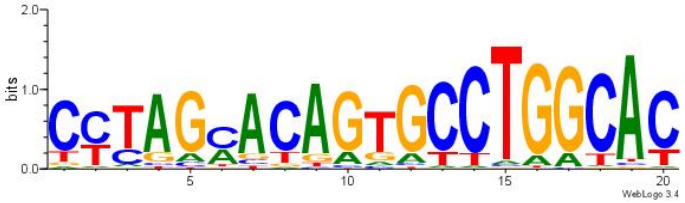

Dataset #: 1

Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.12025

Alignment:

```
TGGGTTCYTGGTC
AAGGTCCATGTAG
```

Original motif Consensus sequence: GACCAMGAACCCA

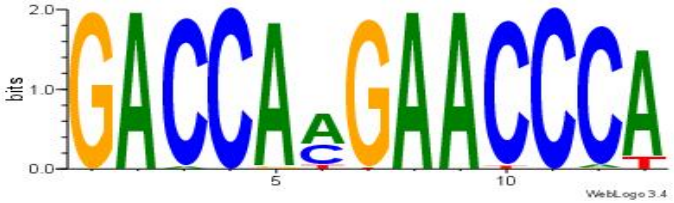

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

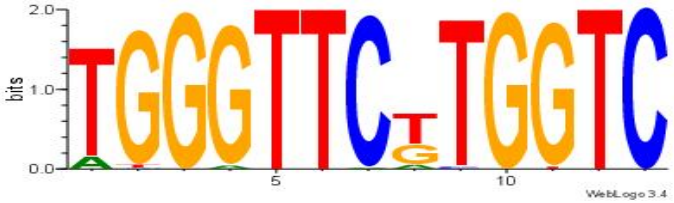

Dataset #: 1 Motif ID: 142 Motif name: Motif 142

Original motif Consensus sequence: CAGATGTC

Reverse complement motif Consensus sequence: GACATCTG

Best Matches for Motif ID 142 (Highest to Lowest)

Dataset #:	1
Motif ID:	272
Motif name:	Motif 272
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0284091

Alignment:

```
CAGCTGTCAC
CAGATGTC--
```

Original motif Consensus sequence: CAGCTGTCAC

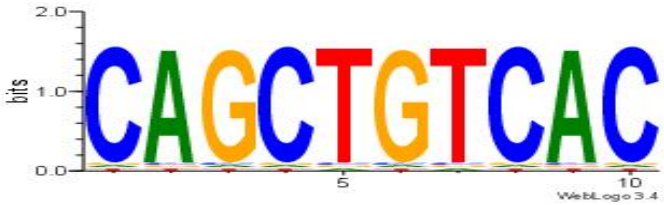

Reverse complement motif Consensus sequence: GTGACAGCTG

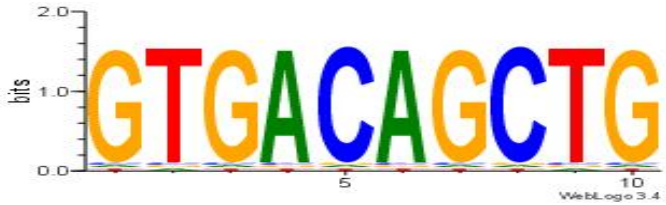

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0407488

Alignment:

```
GCACATGTCGCT
-CAGATGTC---
```

Original motif Consensus sequence: AGCGACATGTGC

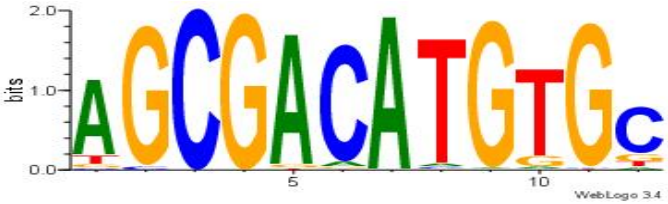

Reverse complement motif Consensus sequence: GCACATGTCGCT

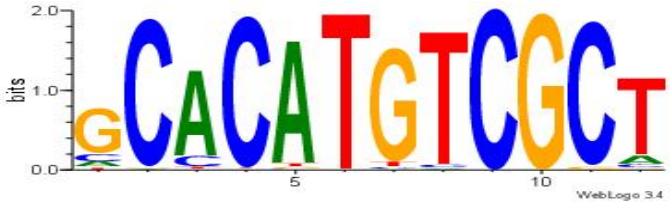

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0533279

Alignment:

```
CTCRAATGTCCCTT
--CAGATGTC----
```

Original motif Consensus sequence: AAGGGACATTKGAG

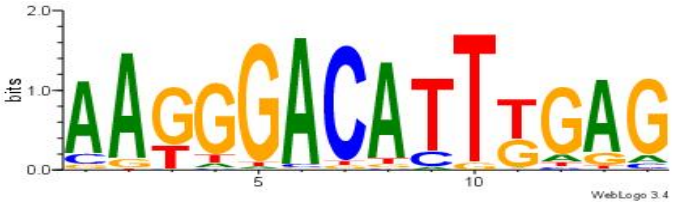

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

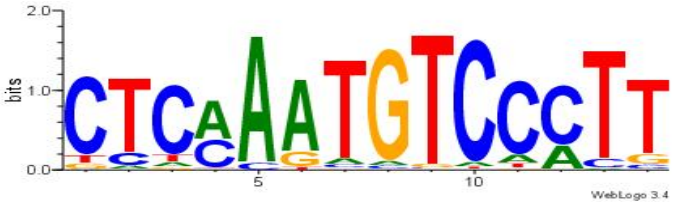

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0568181

Alignment:

```
GGTGATTTCTG
---GACATCTG
```

Original motif Consensus sequence: CAGAAATCACC

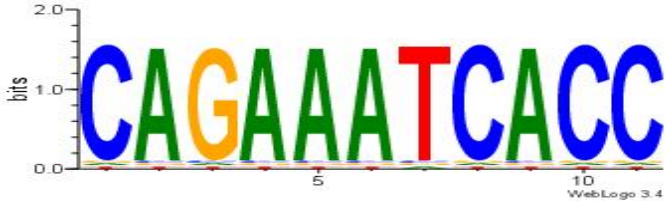

Reverse complement motif Consensus sequence: GGTGATTTCTG

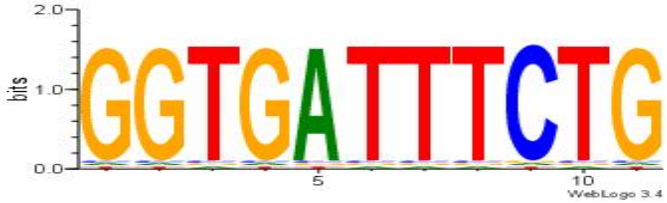

Dataset #:	1
Motif ID:	334
Motif name:	Motif 334
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0568181

Alignment:

```
CATCTGTCAC
CAGATGTC--
```

Original motif Consensus sequence: CATCTGTCAC

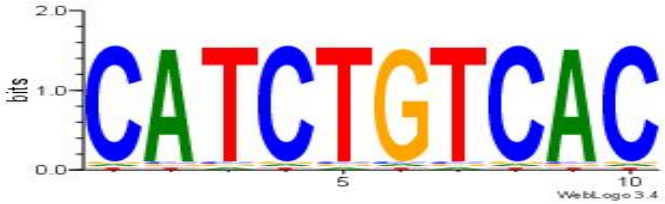

Reverse complement motif Consensus sequence: GTGACAGATG

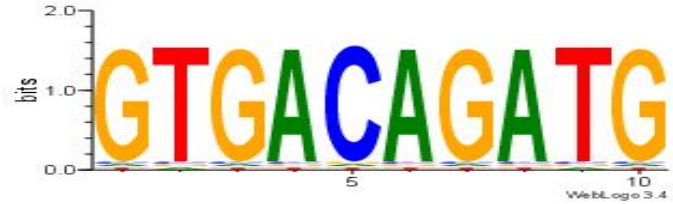

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8

Similarity score: 0.0633094

Alignment:
AGAGCTCTGGCTGGCATCT
-GACATCTG----------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

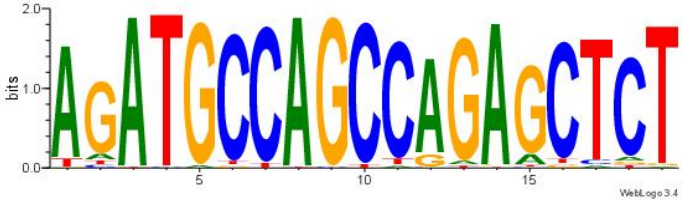

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

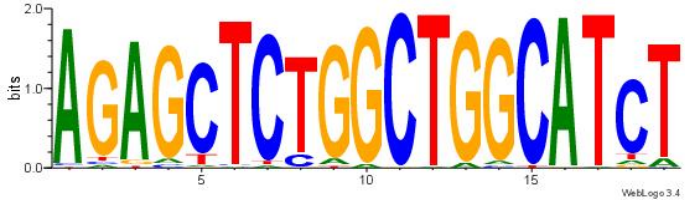

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 12
Number of overlap: 8
Similarity score: 0.0659801

Alignment:
AAGTTCTKGGKTACATGTGC
-----------GACATCTG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

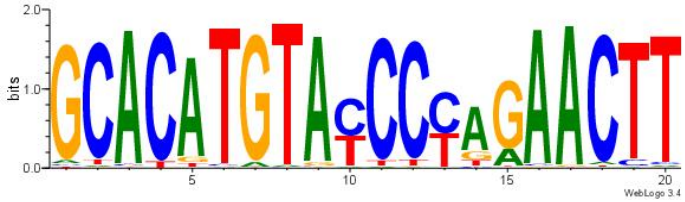

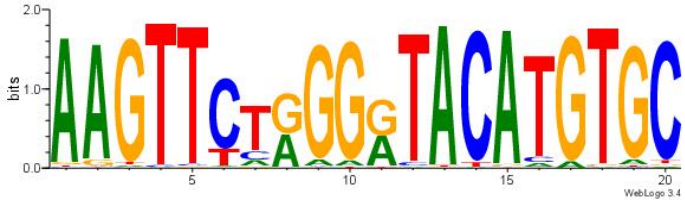

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0665906

Alignment:

```
ACAGCTGGCACC
-CAGATGTC---
```

Original motif Consensus sequence: ACAGCTGGCACC

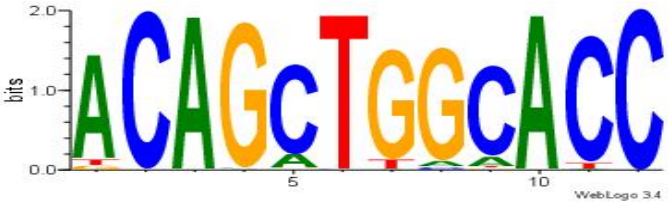

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

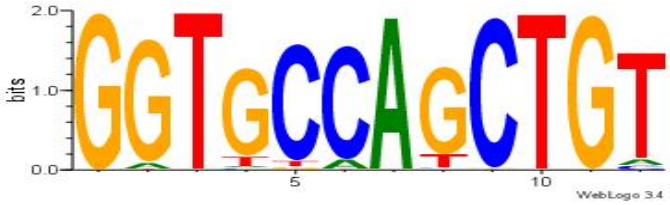

Dataset #:	1
Motif ID:	291

Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0672816

Alignment:

```
TAMGACCTCAGGTCCTCAG
---GACATCTG--------
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

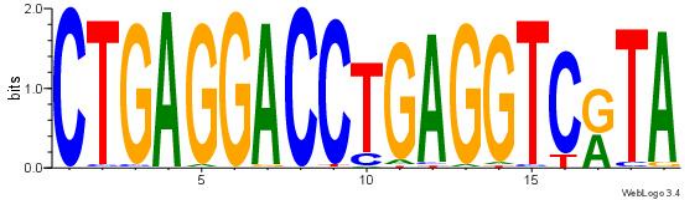

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

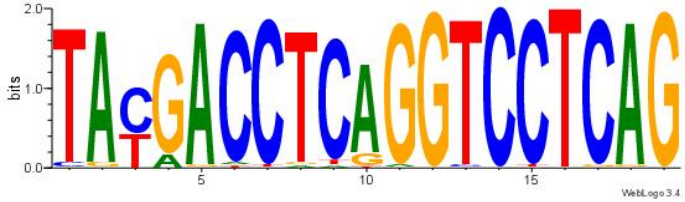

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0673409

Alignment:
ATTCAASATGAGATTTGGG
---------GACATCTG--

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

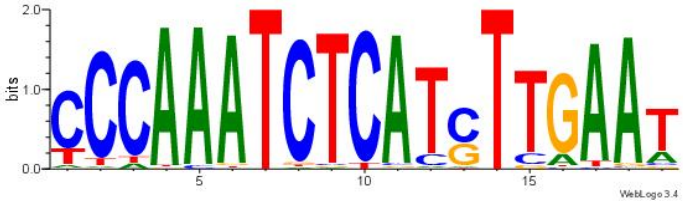

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

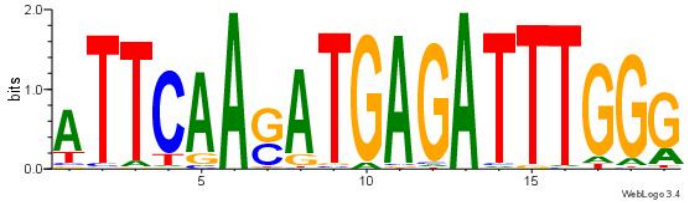

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.067656

Alignment:
AGAAAGGCATGTGAAAA
-----GACATCTG----

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

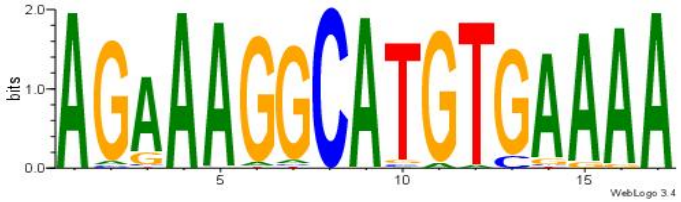

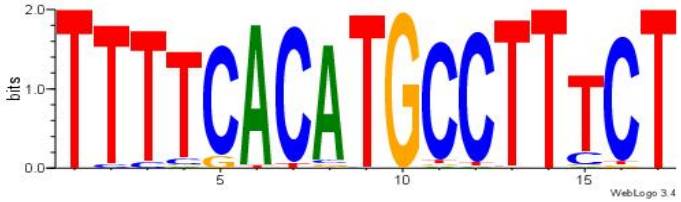

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0682308

Alignment:

```
CCTAGATTTCAGARGATGT
--CAGATGTC---------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

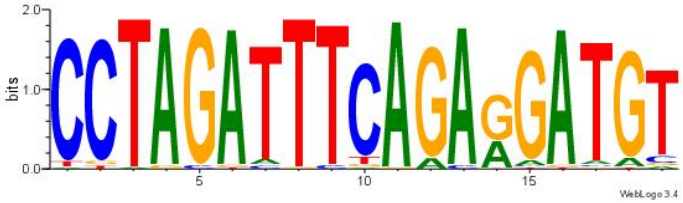

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

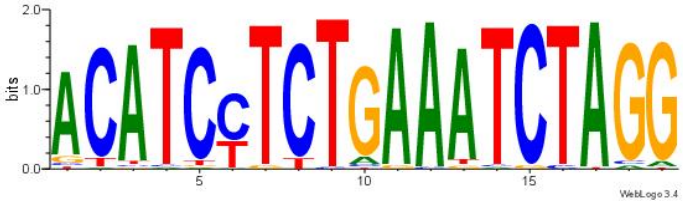

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0690063

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---CAGATGTC---------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

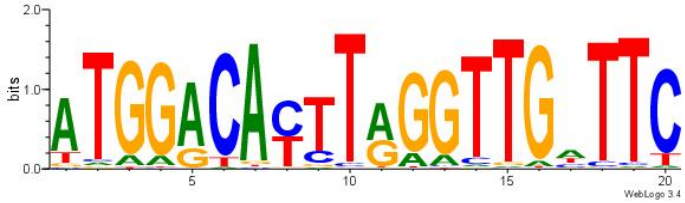

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

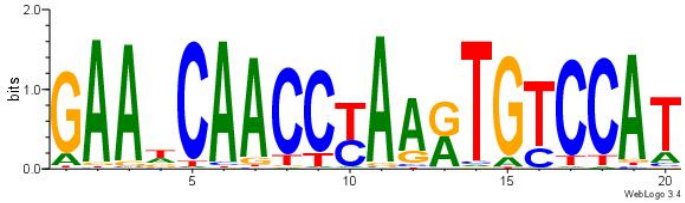

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8

Similarity score: 0.069089

Alignment:
AGCAGCTGTAAATA
--CAGATGTC----

Original motif Consensus sequence: AGCAGCTGTAAATA

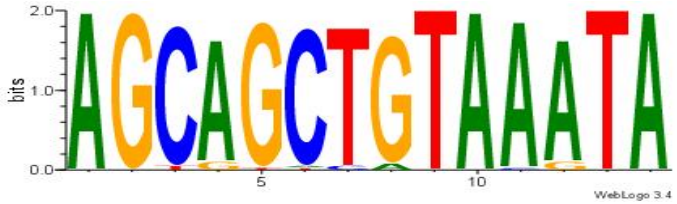

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

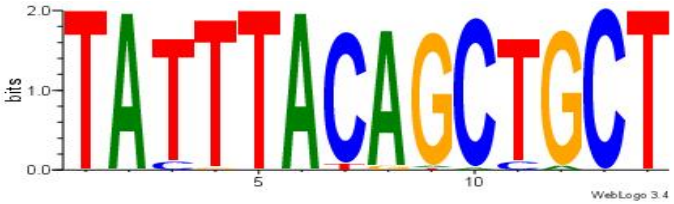

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0695553

Alignment:
MGTGTGATGTCTCCCCC
---CAGATGTC------

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

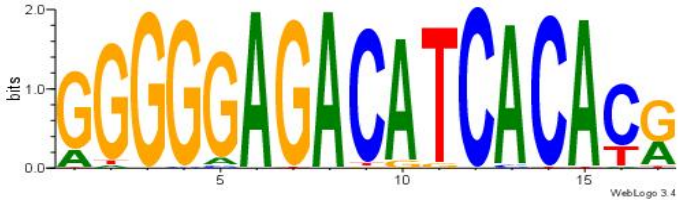

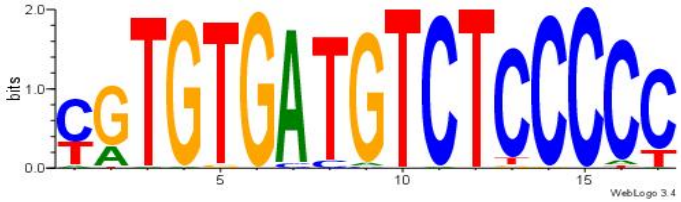

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0696546

Alignment:

```
GACATGAGCTGGCGCTTG
GACATCTG----------
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

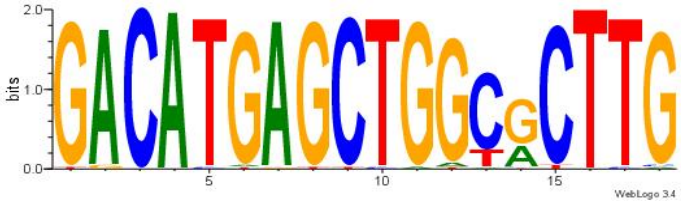

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

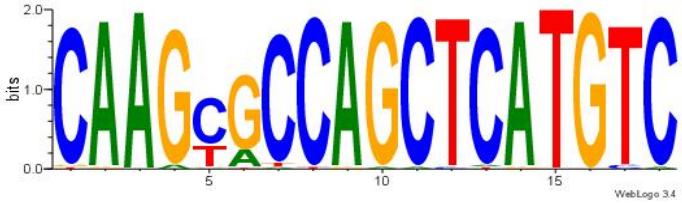

Dataset #:	1

Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0702976

Alignment:

```
CATAGGAGATGAC
-----CAGATGTC
```

Original motif Consensus sequence: CATAGGAGATGAC

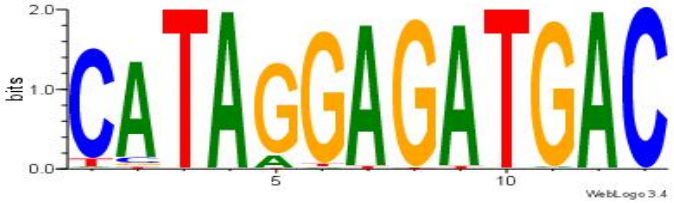

Reverse complement motif Consensus sequence: GTCATCTCCTATG

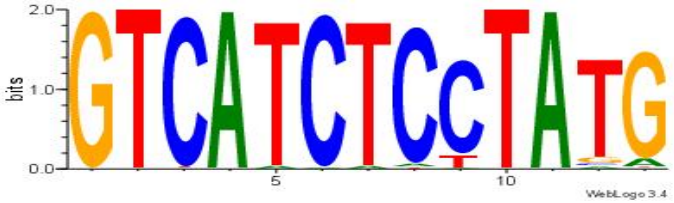

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0716498

Alignment:
AAGACGGGTGATTTCTG
---------GACATCTG

Original motif Consensus sequence: CAGAAATCACCCGTCTT

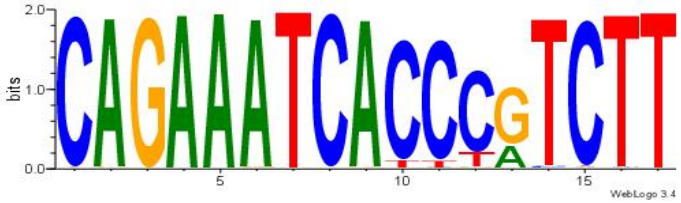

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

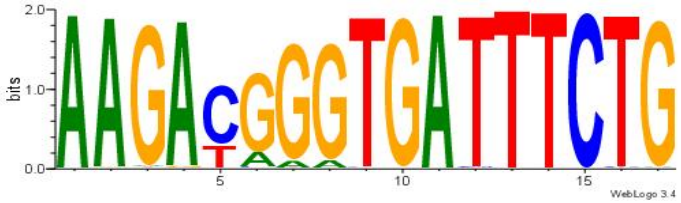

Dataset #:	1
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0725603

Alignment:
ATTCGGCCATCTT
-----GACATCTG

Original motif Consensus sequence: AAGATGGCCGAAT

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

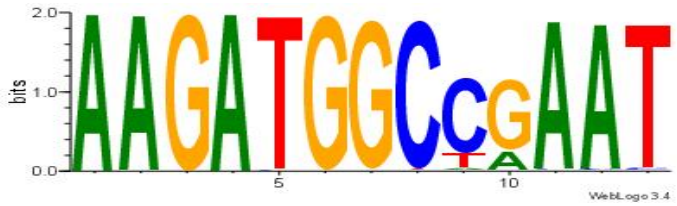

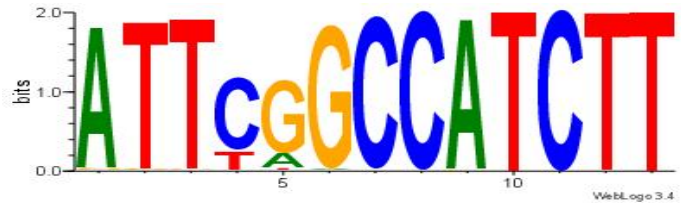

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0744009

Alignment:

```
CAGCCAGATCRSCC
----CAGATGTC--
```

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

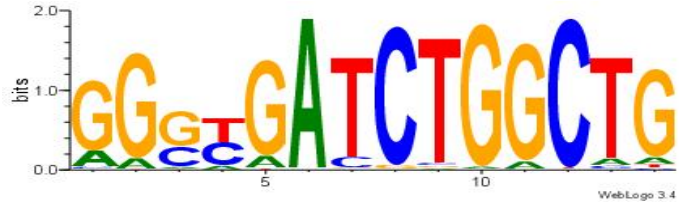

Dataset #:	1
Motif ID:	132

Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0761047

Alignment:

```
CAAGATGGCGGC
-CAGATGTC---
```

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

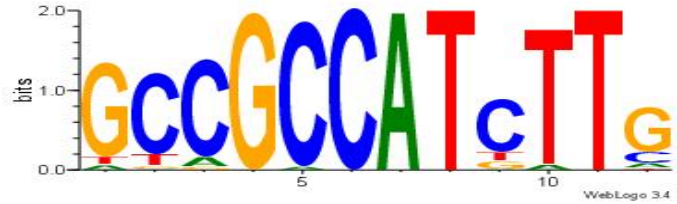

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0762444

Alignment:
CTGACTGGGAGACACCTCCC
----------GACATCTG--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

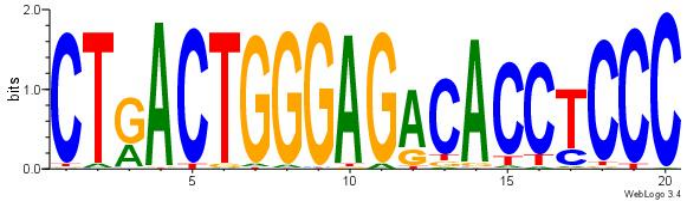

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

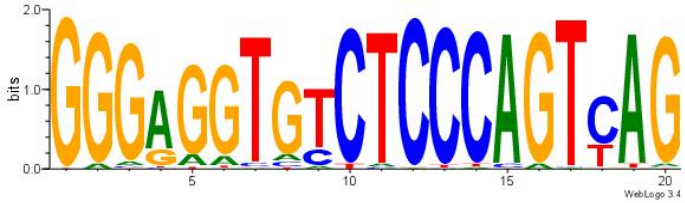

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0788382

Alignment:
CATTTCCAWCTGAGGTAC
------GACATCTG----

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

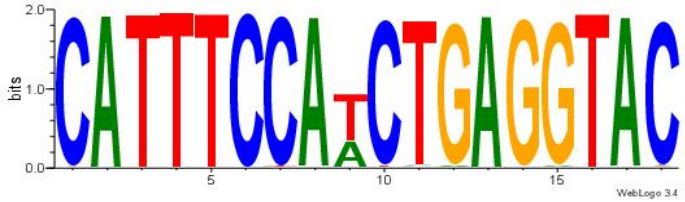

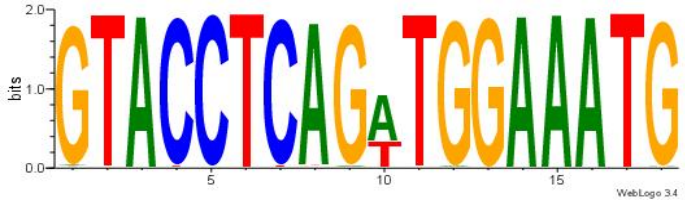

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0822153

Alignment:

```
TAGTGGTGATTTSTGAGAT
-------GACATCTG----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

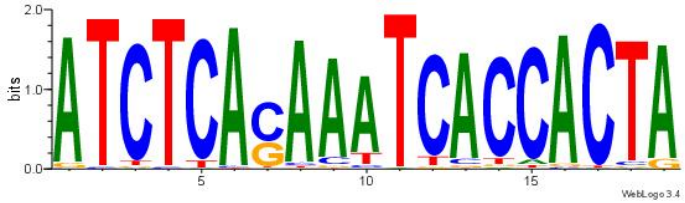

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

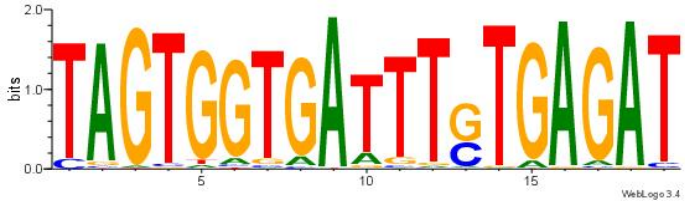

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0830118

Alignment:

```
GCAAAKGACATGATYTCATT
-CAGATGTC-----------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

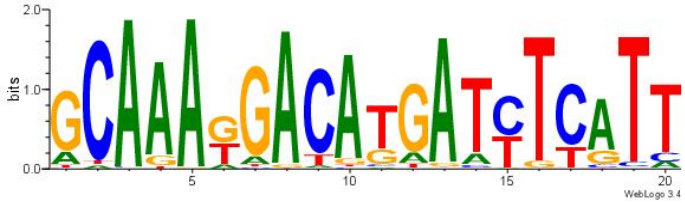

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

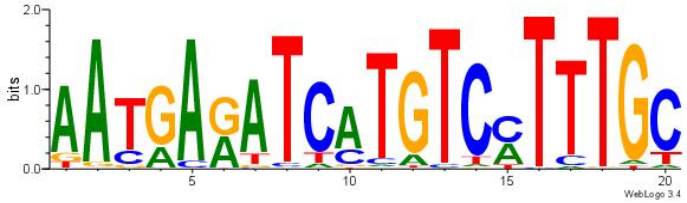

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8

Similarity score: 0.0852272

Alignment:
TTGAGGAGGCAGTCTG
--------GACATCTG

Original motif Consensus sequence: CAGACTGCCTCCTCAA

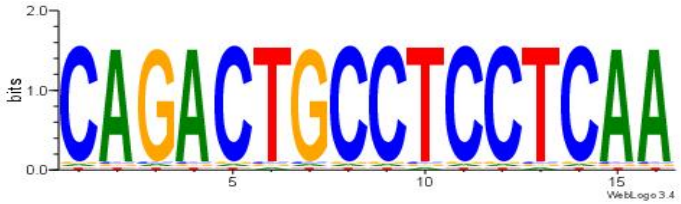

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

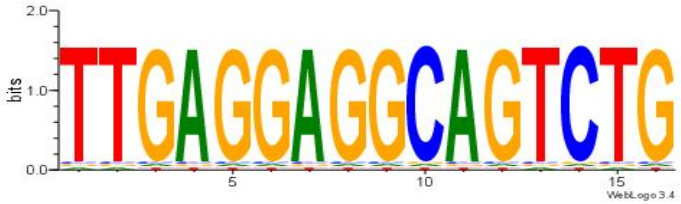

Dataset #:	1
Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
CTCAGACTGCT
-CAGATGTC--

Original motif Consensus sequence: AGCAGTCTGAG

Reverse complement motif Consensus sequence: CTCAGACTGCT

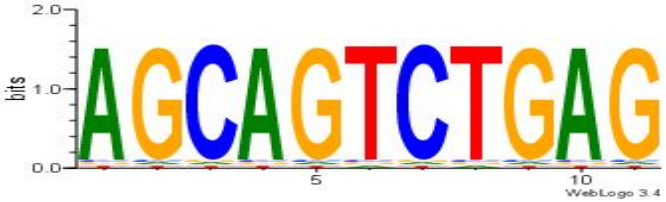

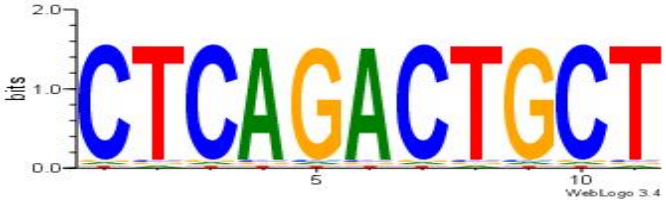

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
GCTTCCATGTG
---GACATCTG
```

Original motif Consensus sequence: CACATGGAAGC

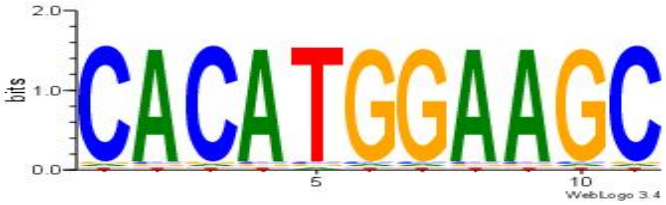

Reverse complement motif Consensus sequence: GCTTCCATGTG

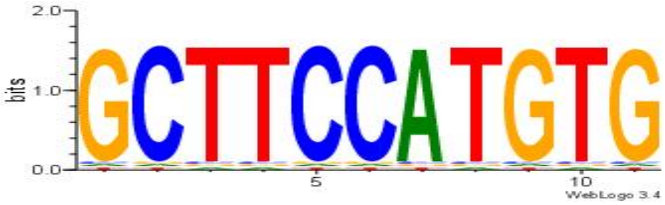

Dataset #:	1
Motif ID:	324

Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
TACAGGTGCGT
--CAGATGTC-
```

Original motif Consensus sequence: ACGCACCTGTA

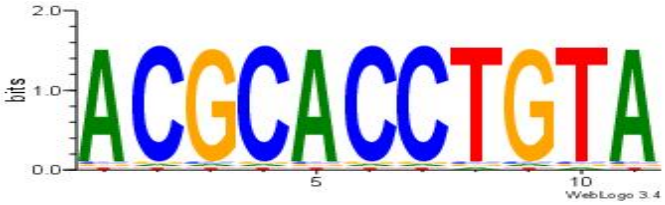

Reverse complement motif Consensus sequence: TACAGGTGCGT

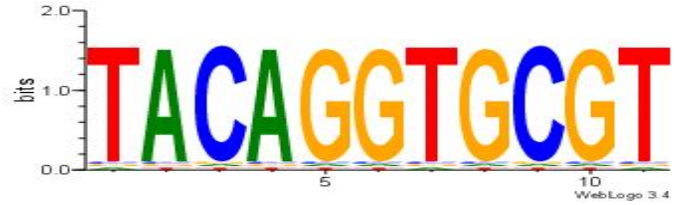

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0852944

Alignment:
BCVTCTGTCACCCC
-----CAGATGTC-

Original motif Consensus sequence: GGGGTGACAGABGB

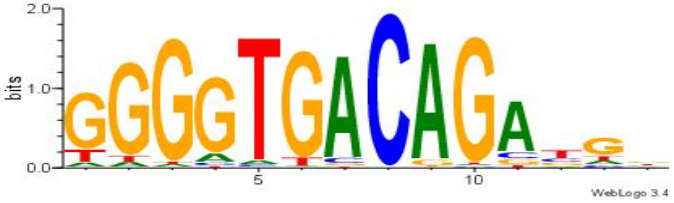

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

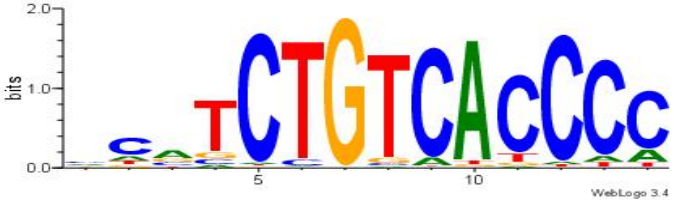

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0872676

Alignment:
CAAGTTGACACATAAAATTA
------GACATCTG------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

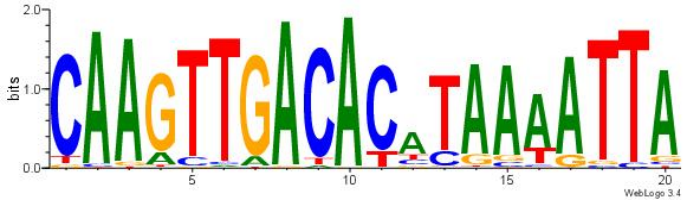

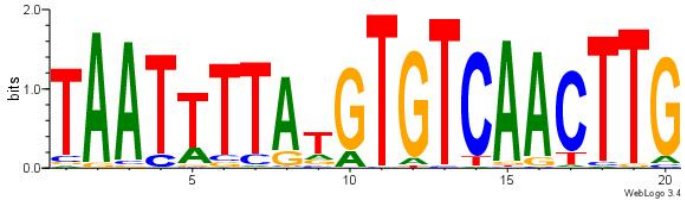

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0885017

Alignment:

```
GTGGCCCTCTTCTCACAGCT
---GACATCTG---------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

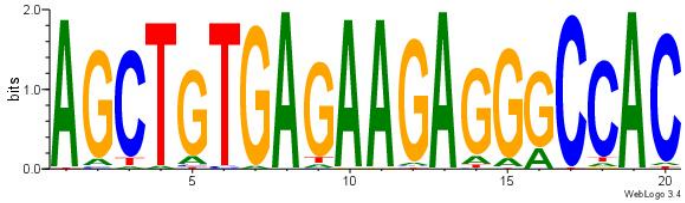

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

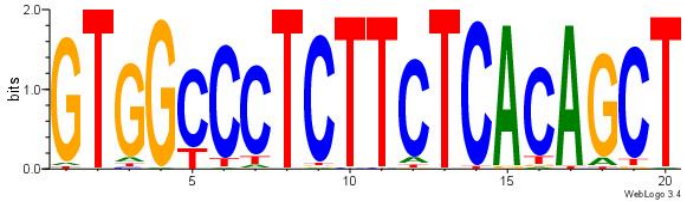

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0900497

Alignment:

```
ACACATCACAAAGCAGTTTC
-GACATCTG-----------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

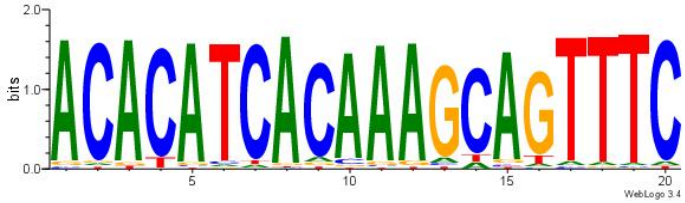

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

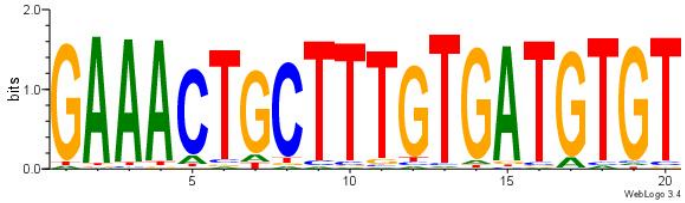

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8

Similarity score: 0.0902899

Alignment:
GACTTCAAGAATGAAGCCG
GACATCTG----------

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

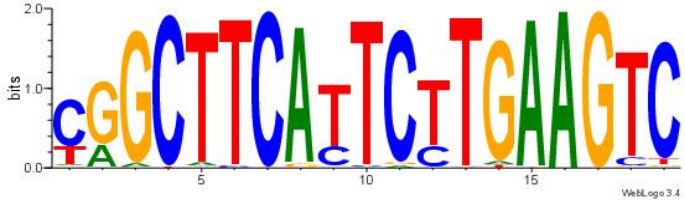

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0910581

Alignment:
CAAAGGCATAAGAATGAT
----GACATCTG------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence:
ATCATTCTTATGCCTTTG

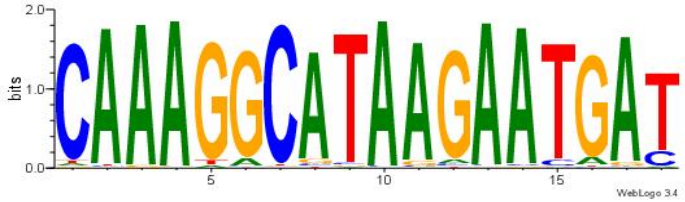

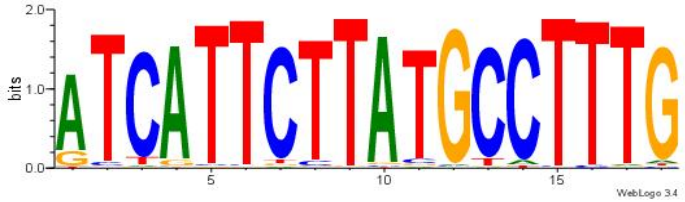

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0910906

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---------GACATCTG---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

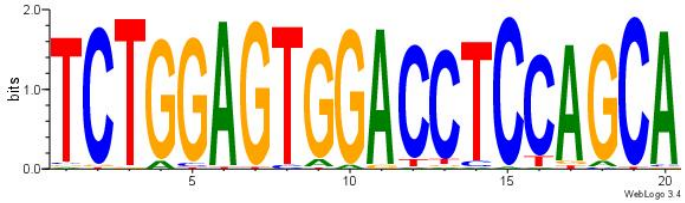

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

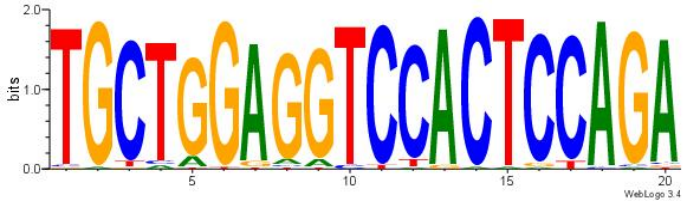

Dataset #: 1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0912261

Alignment:

```
TTMGTCCCAGAGGGGCACC
-------CAGATGTC----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

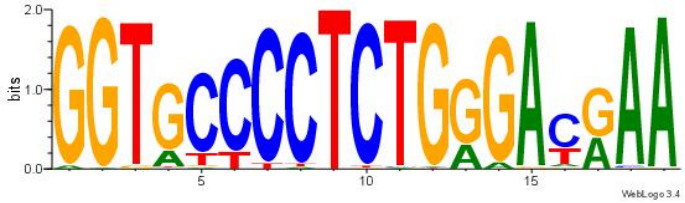

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

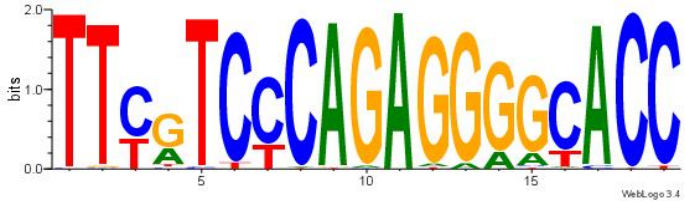

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8

Similarity score: 0.0914055

Alignment:
TGTGACCTTGG
---GACATCTG

Original motif Consensus sequence: CCAAGGTCACA

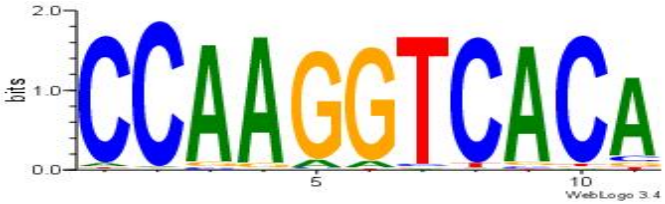

Reverse complement motif Consensus sequence: TGTGACCTTGG

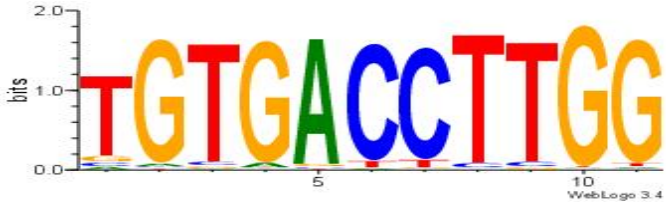

Dataset #: 1
Motif ID: 275
Motif name: Motif 275
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0914865

Alignment:
TTTAACTCTGTGAG
--GACATCTG----

Original motif Consensus sequence: CTCACAGAGTTAAA

Reverse complement motif Consensus sequence: TTTAACTCTGTGAC

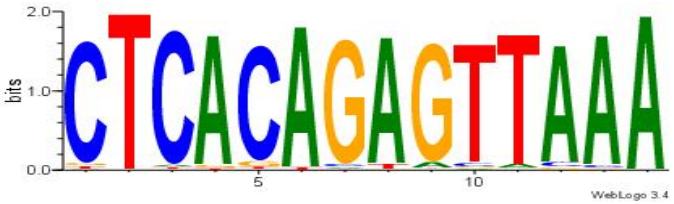

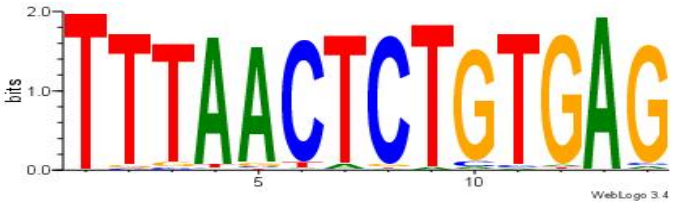

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.091775

Alignment:

```
ACATCTGYMMCC
-CAGATGTC---
```

Original motif Consensus sequence: ACATCTGYMMCC

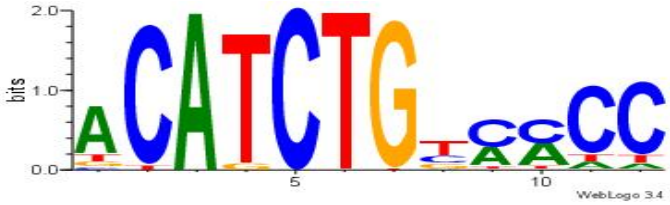

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	309

Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0918279

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------GACATCTG------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

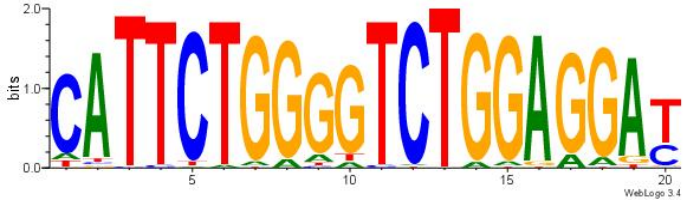

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

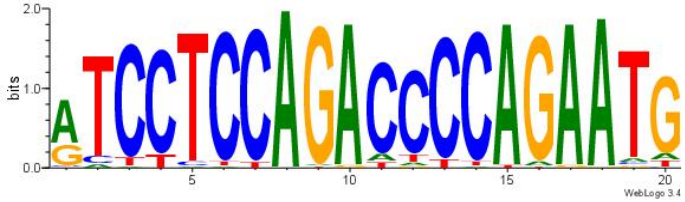

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0919082

Alignment:
AGTTCTTAAAGATGGT
--------CAGATGTC

Original motif Consensus sequence: AGTTCTTAAAGATGGT

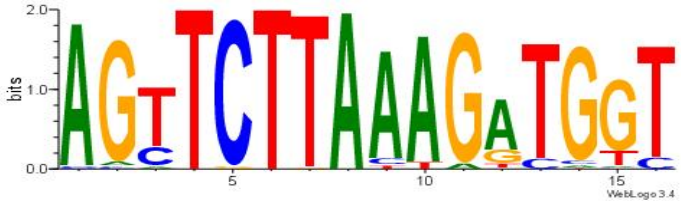

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

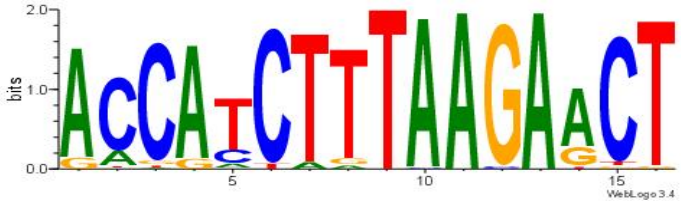

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0919228

Alignment:
GAGAACACATGGACA
---GACATCTG----

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

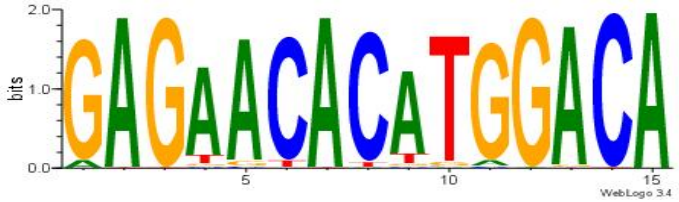

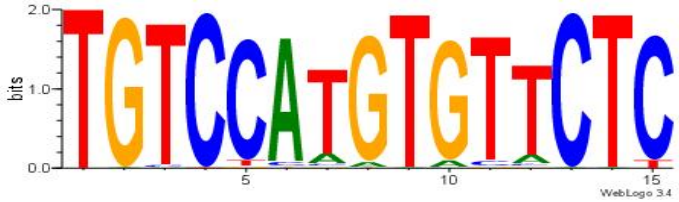

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.092148

Alignment:

```
AAAMAMMKMATGTTCTCACT
------CAGATGTC------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

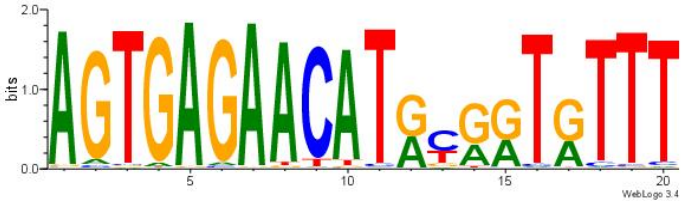

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

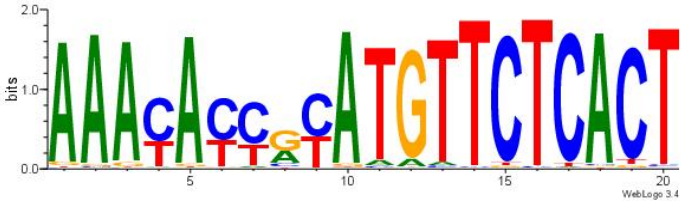

Dataset #:	1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0921778

Alignment:

```
AGGTTTGTTACATAGGTAWA
----GACATCTG--------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

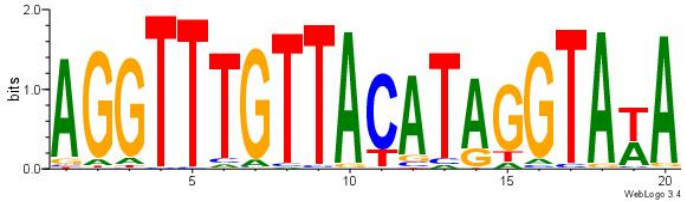

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

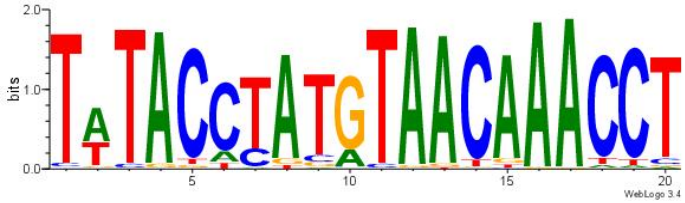

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8

Similarity score: 0.0923129

Alignment:
AGCTCMKCCTCCTGTCAGAT
--------CAGATGTC----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

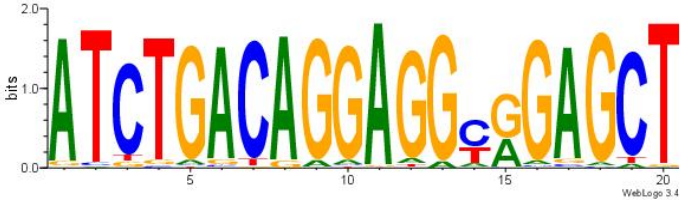

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

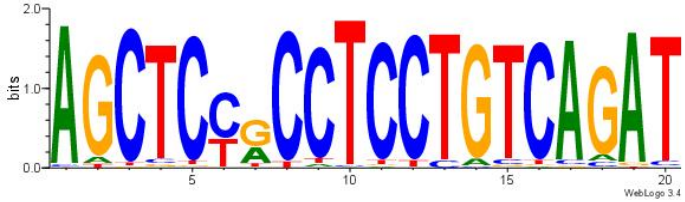

Dataset #: 1
Motif ID: 329
Motif name: Motif 329
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 8
Similarity score: 0.0927189

Alignment:
GGGAGGGATATATTAGC
------GACATCTG---

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

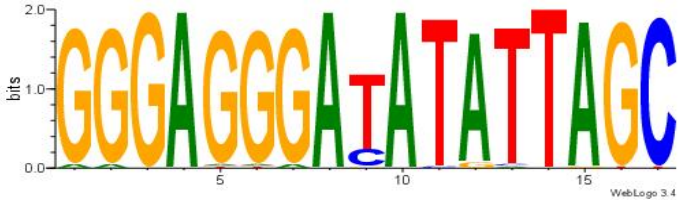

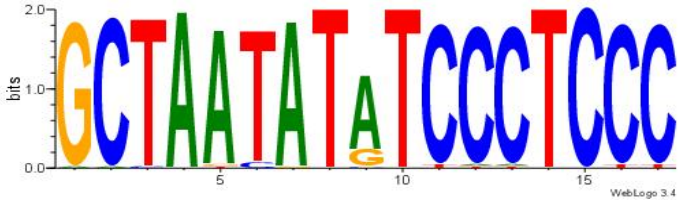

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0927659

Alignment:

```
AGGGATCTAGGTTGCR
-GACATCTG-------
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

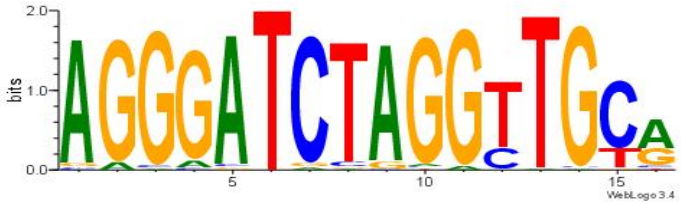

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

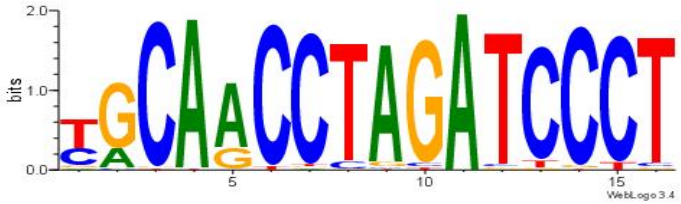

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0930661

Alignment:

```
GCCAATTTCTCCCATTTGGA
-CAGATGTC-----------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

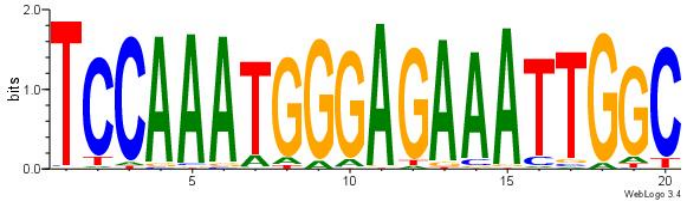

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

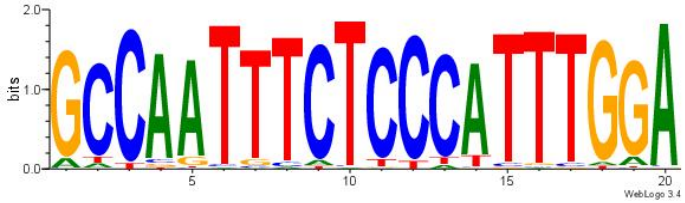

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8

Similarity score: 0.0931366

Alignment:
CCCTACTGTTCTCY
-----CAGATGTC-

Original motif Consensus sequence: CCCTACTGTTCTCY

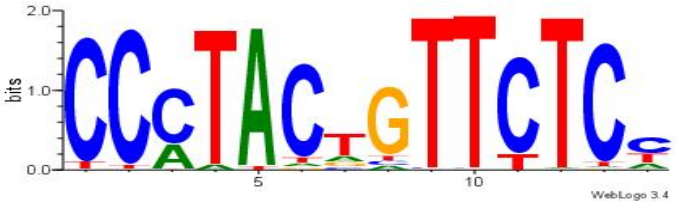

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #: 1 Motif ID: 143 Motif name: Motif 143

Original motif Consensus sequence: CTGCGTCGCTCAC

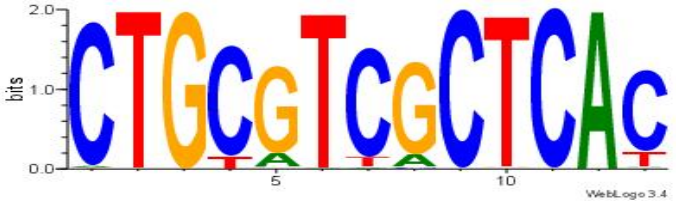

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

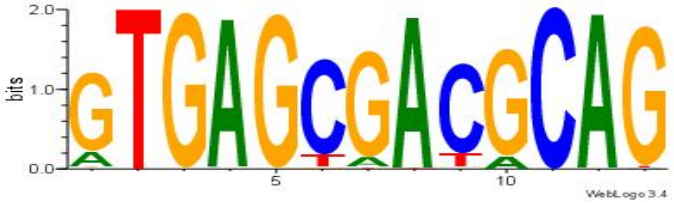

Best Matches for Motif ID 143 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

Position number:	8
Number of overlap:	13
Similarity score:	0.0703083

Alignment:
CTGGGTCCCCCAGCAGTGCC
CTGCGTCGCTCAC-------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

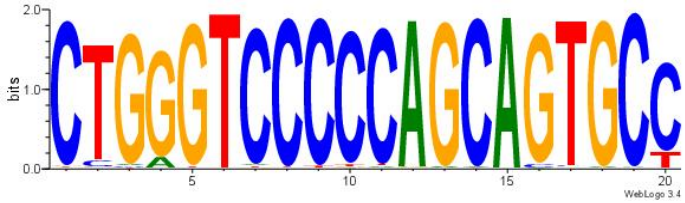

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

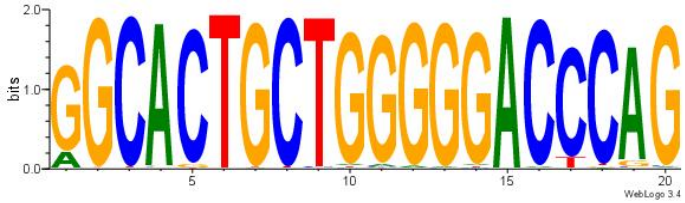

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0789125

Alignment:
CRTGAGCCACYGYRCCYGGC
------GTGAGCGACGCAG-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

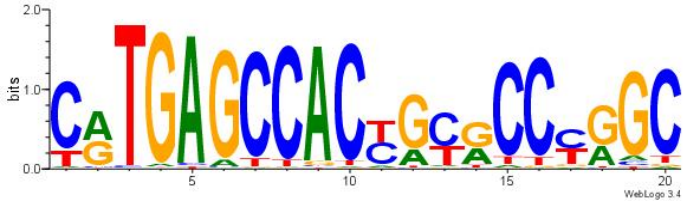

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

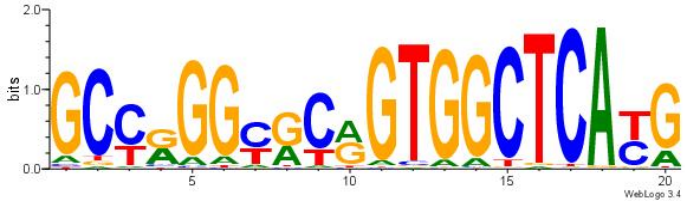

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0814278

Alignment:

```
GCAGCTTCACTCCTGA
-CTGCGTCGCTCAC--
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

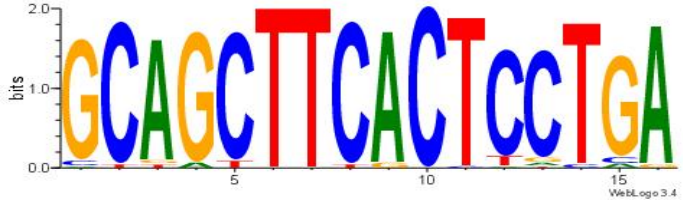

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

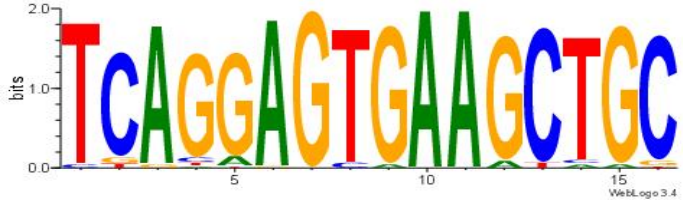

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0830321

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
CTGCGTCGCTCAC-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

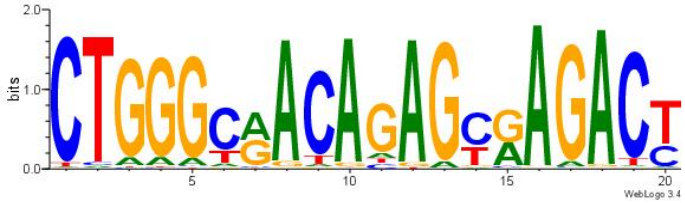

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

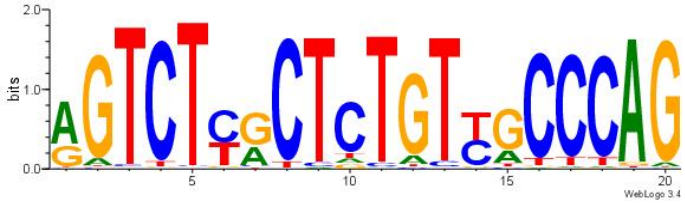

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0837431

Alignment:
GCAGAGGCGCTCCT
-CTGCGTCGCTCAC

Original motif Consensus sequence: GCAGAGGCGCTCCT

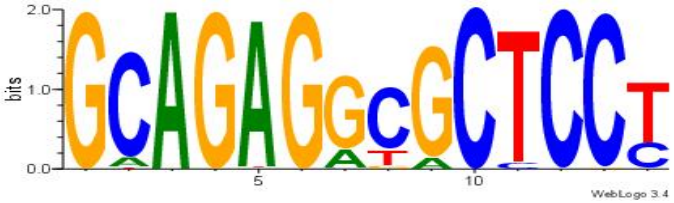

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

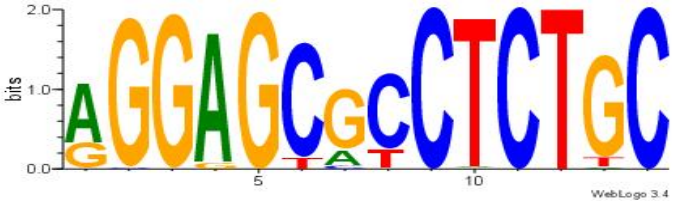

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.087369

Alignment:
ATCRCTTGAGSYCAGGAGKT
--GTGAGCGACGCAG-----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

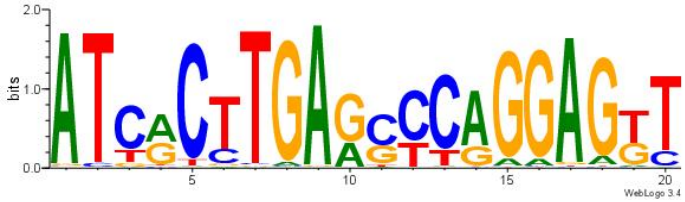

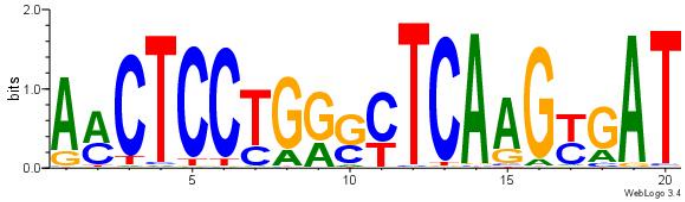

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0878347

Alignment:

```
GGTGGGGGGGTCAGCCCCC
-GTGAGCGACGCAG-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

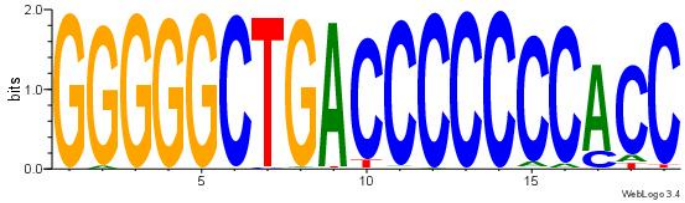

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

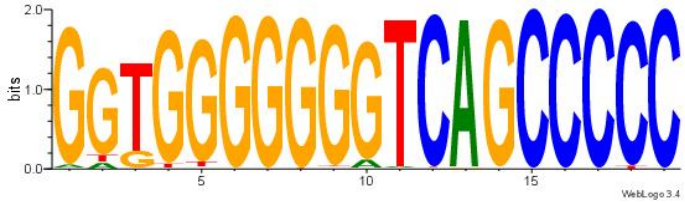

Dataset #:	1

Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0891513

Alignment:

```
AATTAAAAGACACAGACTG
--GTGAGCGACGCAG----
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

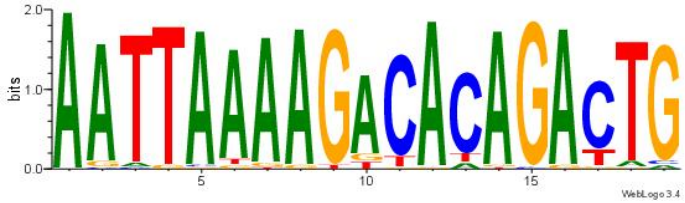

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

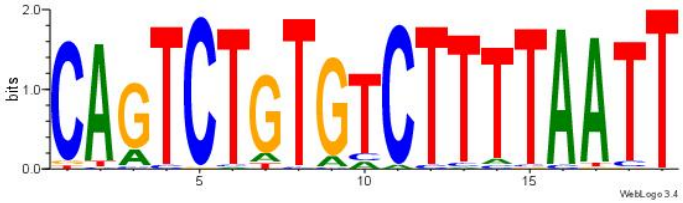

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0898513

Alignment:
GGAGCCGGCTCCCTCAGCTT
---CTGCGTCGCTCAC----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

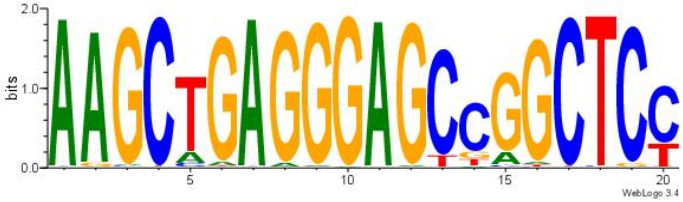

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

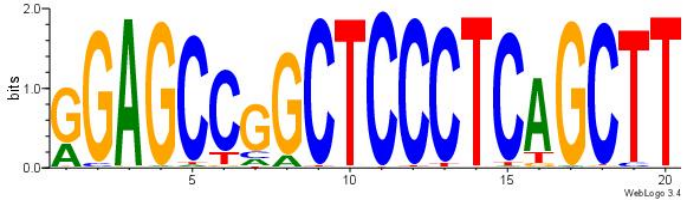

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0908371

Alignment:
AAGCAGGGCGAGGCATTGCC
----GTGAGCGACGCAG---

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

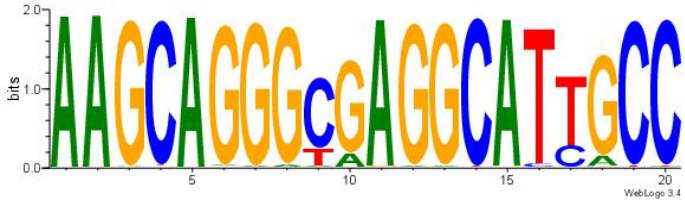

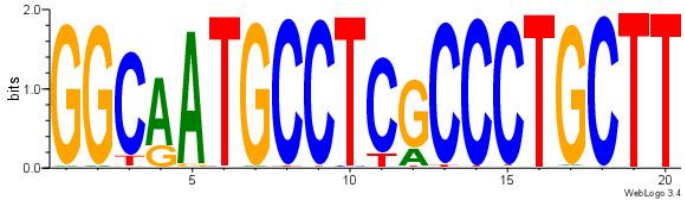

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0922903

Alignment:

```
GCGCACGGCGCGG
GTGAGCGACGCAG
```

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

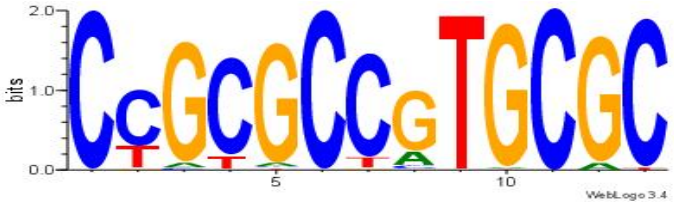

Dataset #:	1
Motif ID:	347

Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0923908

Alignment:

```
GTGTGCGAATAGGTGT
GTGAGCGACGCAG---
```

Original motif Consensus sequence: ACACCTATTCGCACAC

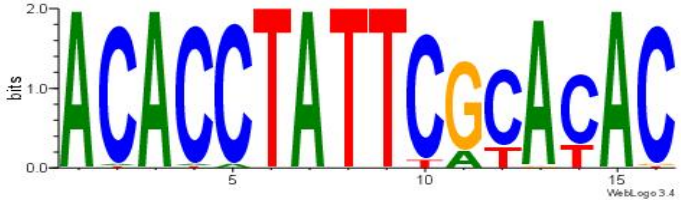

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

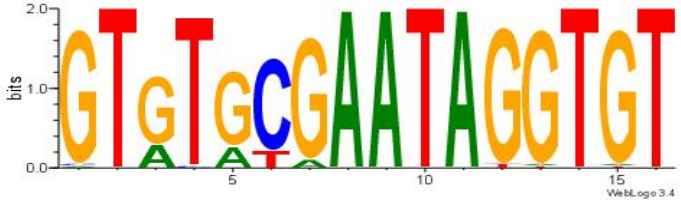

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.09282

Alignment:
GAGAGAGAGAGAGAGAGAGA
-------GTGAGCGACGCAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

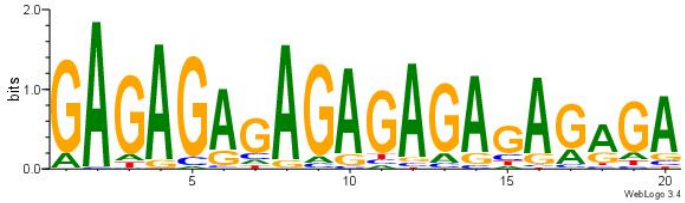

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

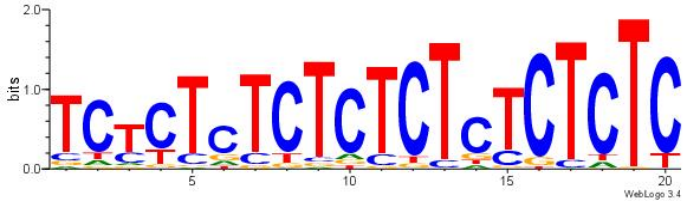

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0949691

Alignment:
AGACCAGCCTGGCCAAC
----CTGCGTCGCTCAC

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence:
GTTGGCCAGGCTGGTCT

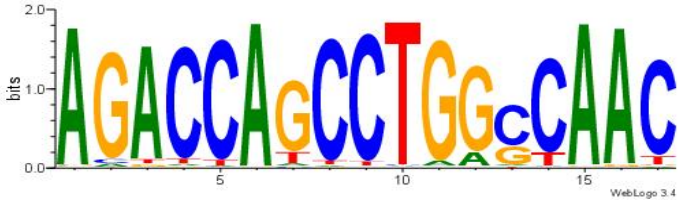

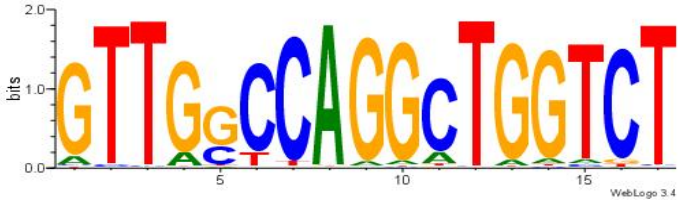

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0956322

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---CTGCGTCGCTCAC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

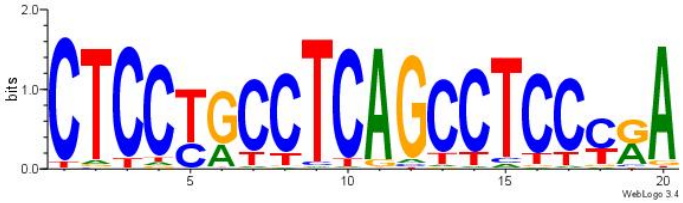

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

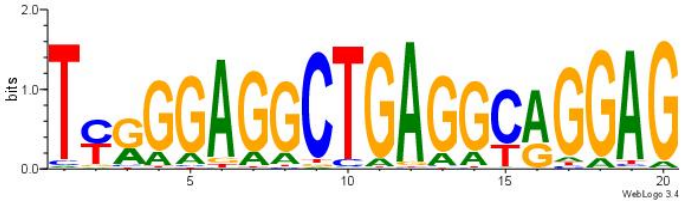

Dataset #:	1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.096764

Alignment:

```
AGGAGCCCCTCHGCCCR
----GTGAGCGACGCAG
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

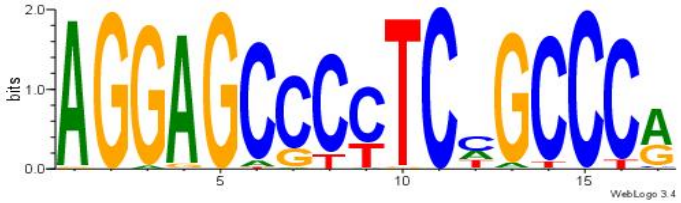

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.0988903

Alignment:
GCCGGGRAGAGGCGCTCCT
----GTGAGCGACGCAG--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

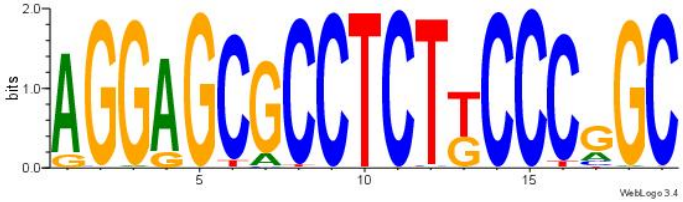

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

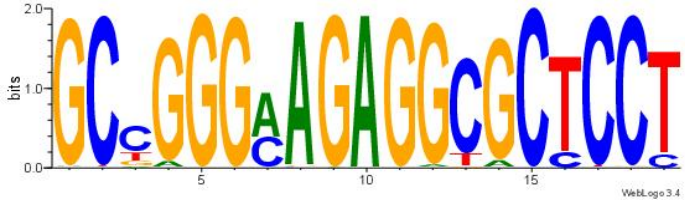

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.0993343

Alignment:
GCCTCCTTGAGCTGTGGTGG
------GTGAGCGACGCAG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

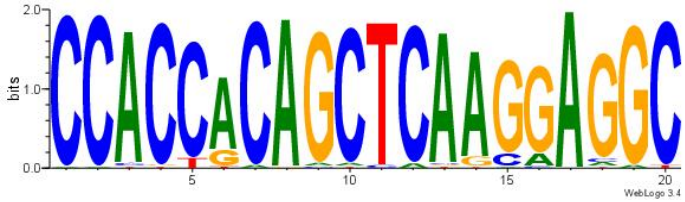

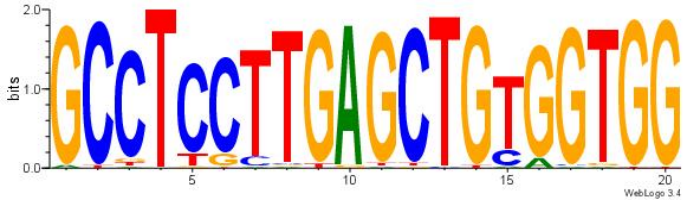

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.100182

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-----CTGCGTCGCTCAC--
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

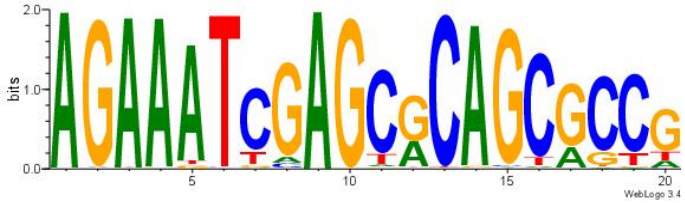

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

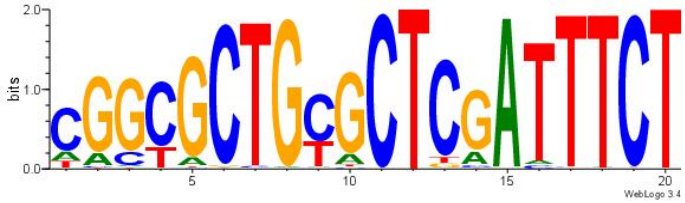

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.100676

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---CTGCGTCGCTCAC----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

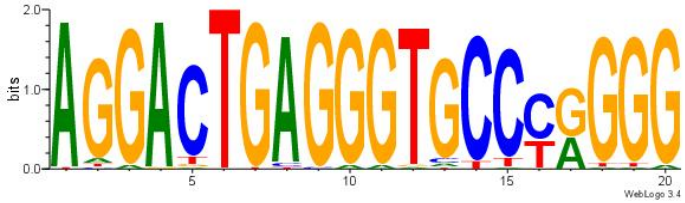

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

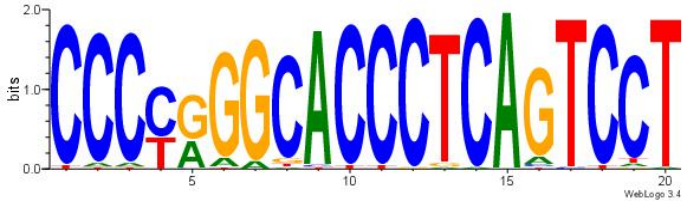

Dataset #:	1
Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.100779

Alignment:
TTGAGAACCACTG
GTGAGCGACGCAG

Original motif Consensus sequence: CAGTGGTTCTCAA

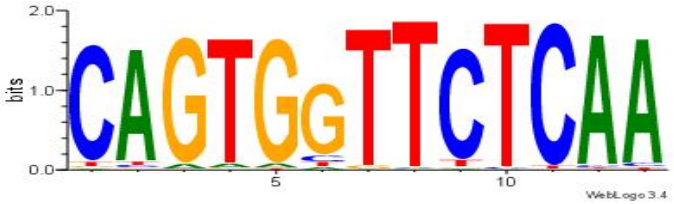

Reverse complement motif Consensus sequence: TTGAGAACCACTG

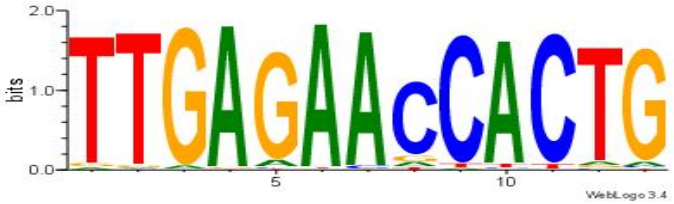

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.101593

Alignment:
AGGASCSTCYSWGCCMGGY
------GTGAGCGACGCAG

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

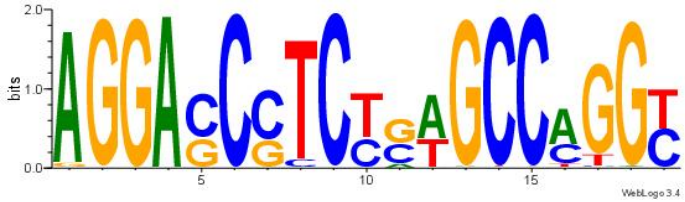

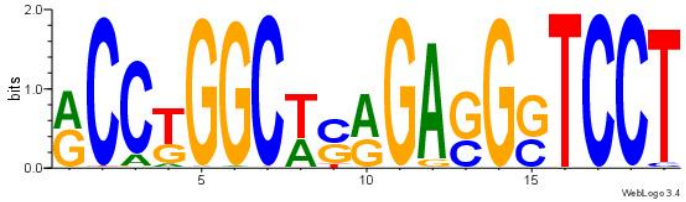

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.10172

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
--GTGAGCGACGCAG-----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

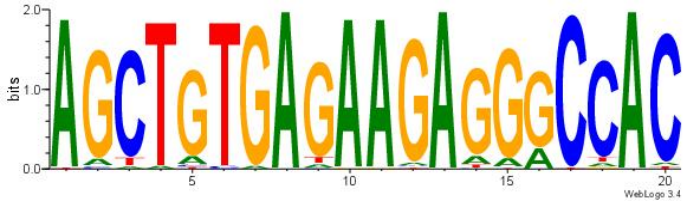

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

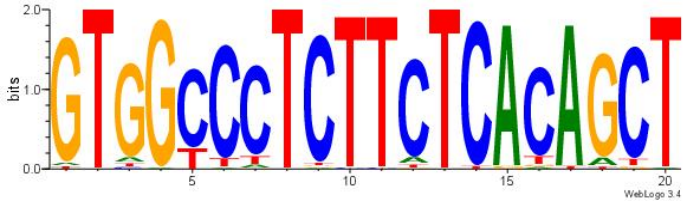

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.101801

Alignment:

```
CGGCTTCATTCTTGAAGTC
CTGCGTCGCTCAC------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

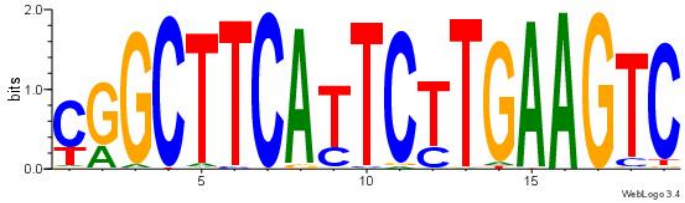

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.101964

Alignment:
CTCAGTGTTAATCTCCTGTC
--CTGCGTCGCTCAC-----

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

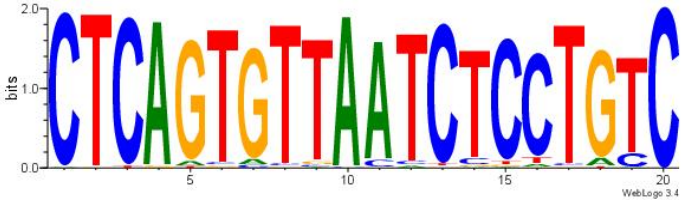

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

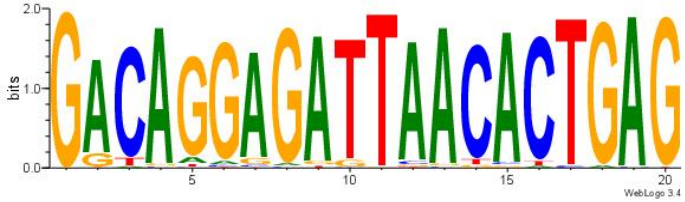

Dataset #: 1
Motif ID: 329
Motif name: Motif 329
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.102549

Alignment:
GCTAATATATCCCTCCC
----CTGCGTCGCTCAC

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

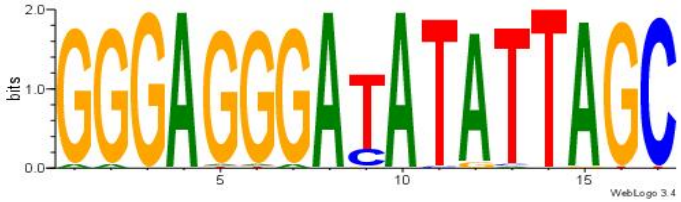

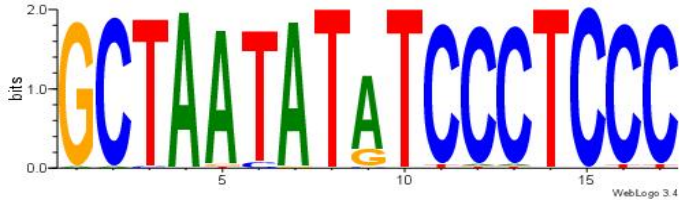

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.102695

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
CTGCGTCGCTCAC-------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

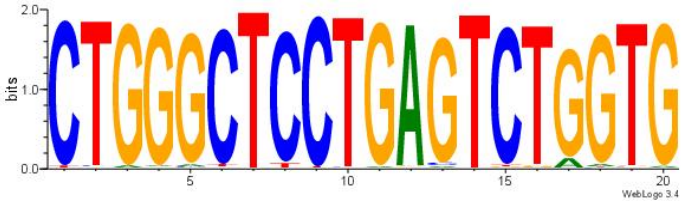

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

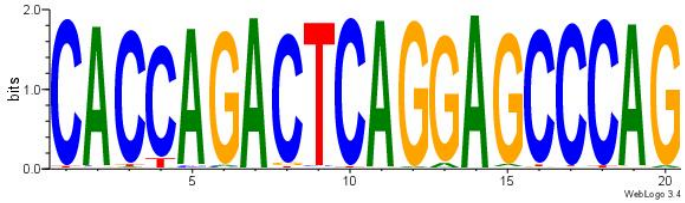

Dataset #:	1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.102924

Alignment:

```
CATGGCGGGCTGCAGGTC
---GTGAGCGACGCAG--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

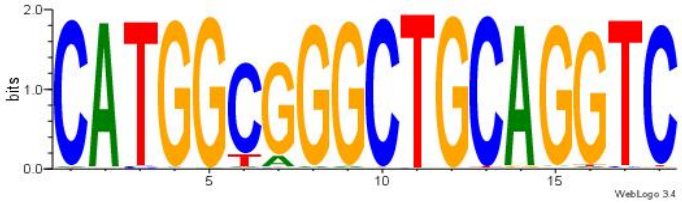

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

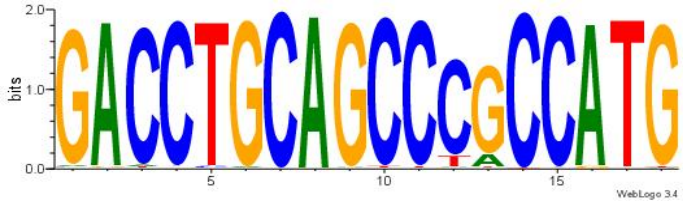

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.102945

Alignment:
TAMGACCTCAGGTCCTCAG
------CTGCGTCGCTCAC

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

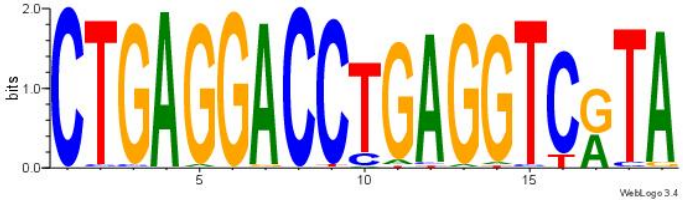

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

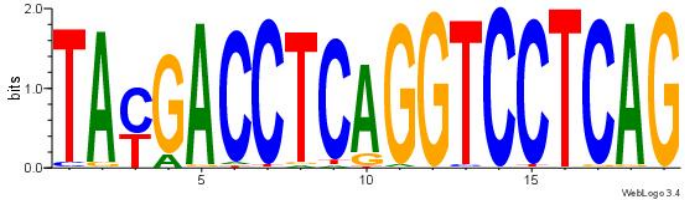

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.103328

Alignment:
GCAGCAMTATTCACAATAG
-----CTGCGTCGCTCAC-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

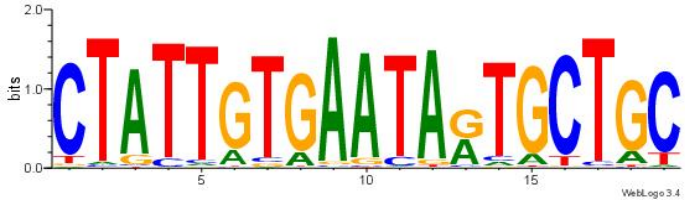

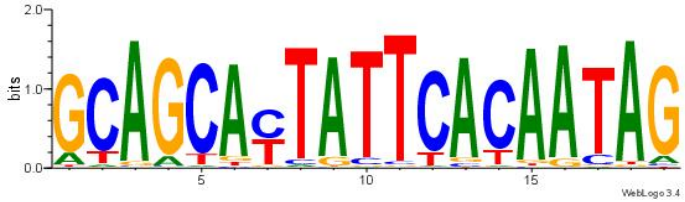

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.103339

Alignment:

```
TCTCTGAGCCTCAGTT
-CTGCGTCGCTCAC--
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

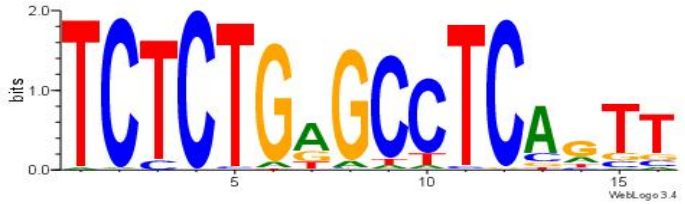

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

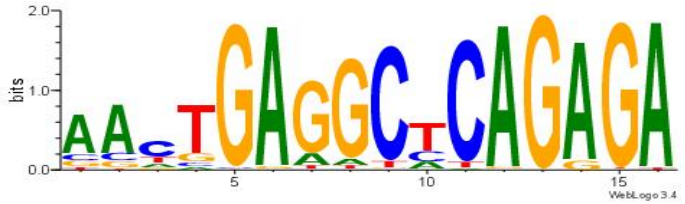

Dataset #:	1

Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.103531

Alignment:

```
GGGRSCACAGGAGCD
GTGAGCGACGCAG--
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

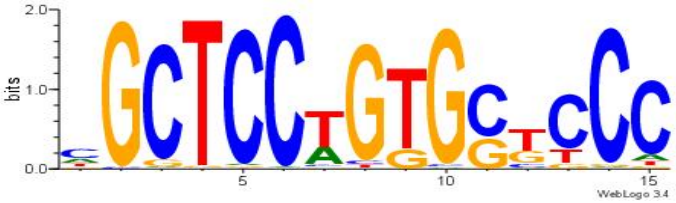

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.103537

Alignment:
AGCTCCCAGCGTGAGCGACG
------CTGCGTCGCTCAC-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

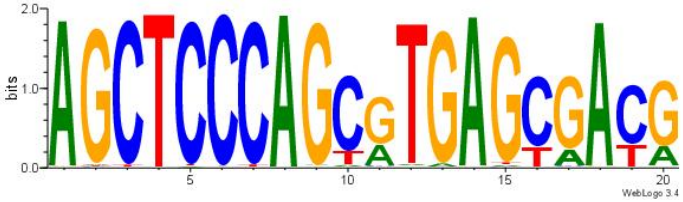

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

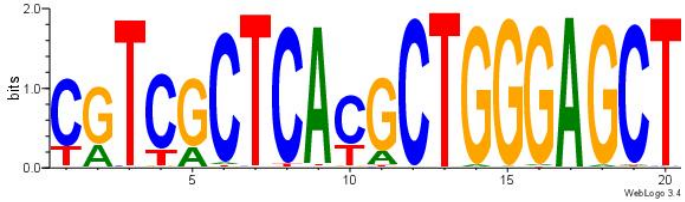

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.105221

Alignment:
GGGAGGTGTCTCCCAGTCAG
---CTGCGTCGCTCAC----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

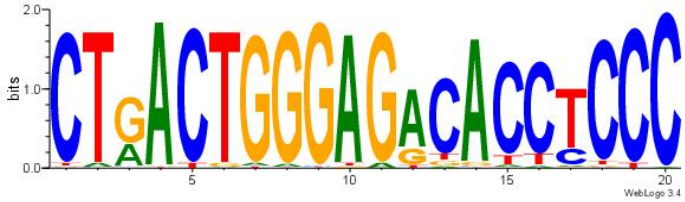

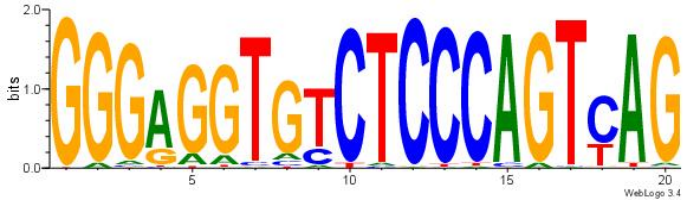

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.105259

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----CTGCGTCGCTCAC-
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

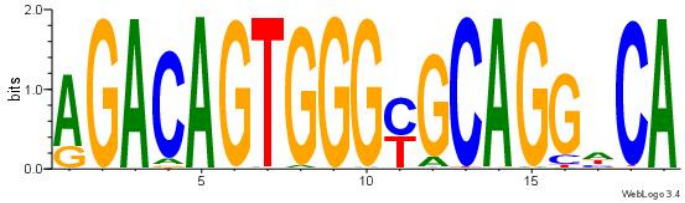

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

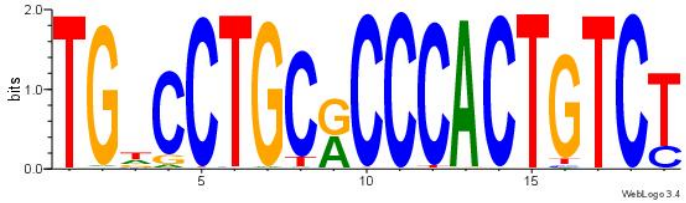

Dataset #:	1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.105293

Alignment:

```
GCACTCTGTMTCTAGCT
---CTGCGTCGCTCAC-
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

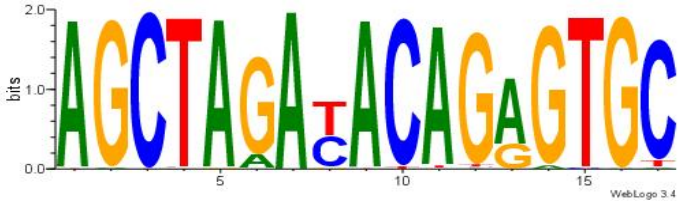

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

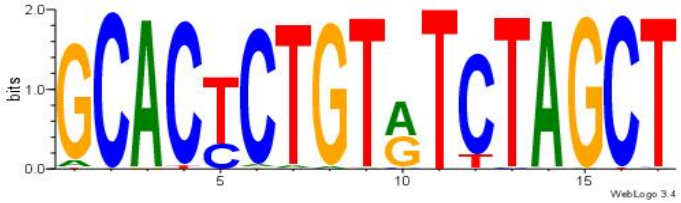

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.105374

Alignment:
GCTCTCAATTGGTCATT
---CTGCGTCGCTCAC-

Original motif Consensus sequence: AATGACCAATTGAGAGC

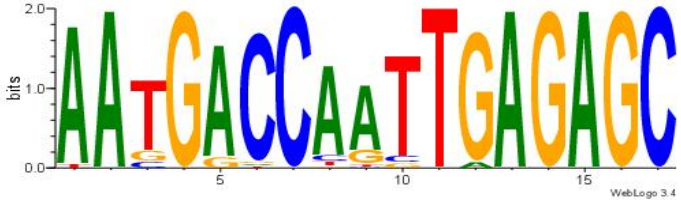

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

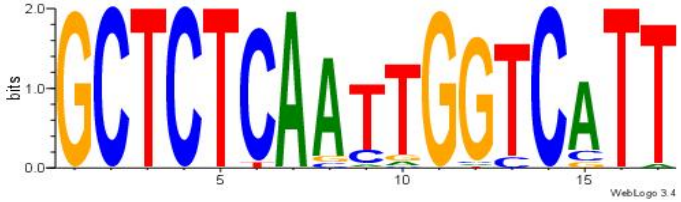

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.105573

Alignment:
ACTGTCTTCCACCTCCACAT
-----CTGCGTCGCTCAC--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

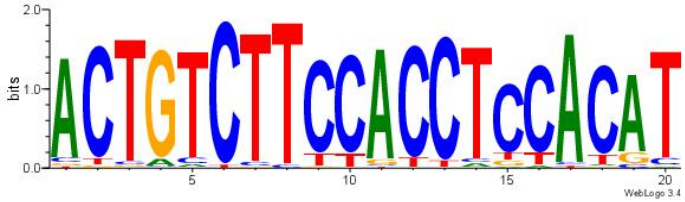

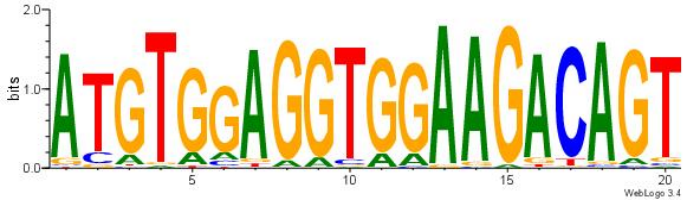

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.105712

Alignment:

```
AGGGATCTAGGTTGCR
-GTGAGCGACGCAG--
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

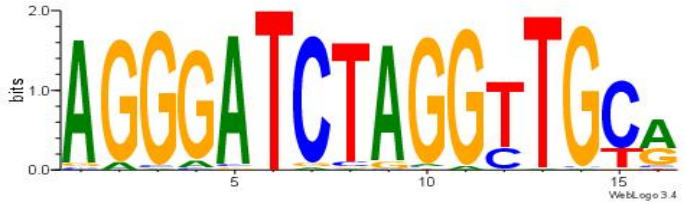

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

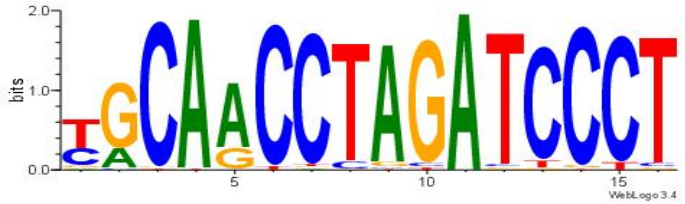

Dataset #:	1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.106717

Alignment:

```
GCGMGCGGGAACCGGGGCT
--GTGAGCGACGCAG----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

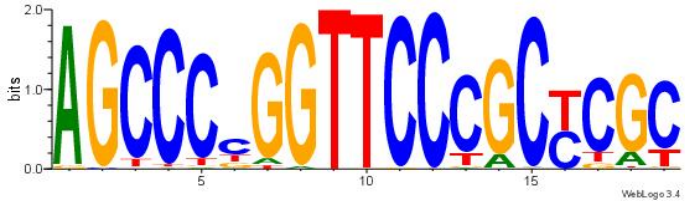

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

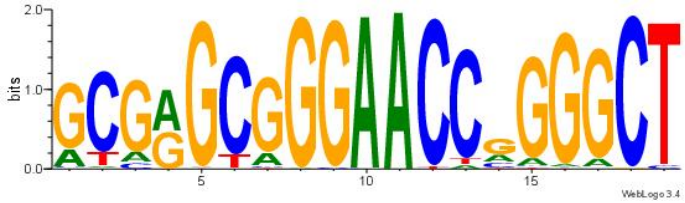

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.107091

Alignment:
GCTGGCCCGCAAGCGCCGCG
-CTGCGTCGCTCAC------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

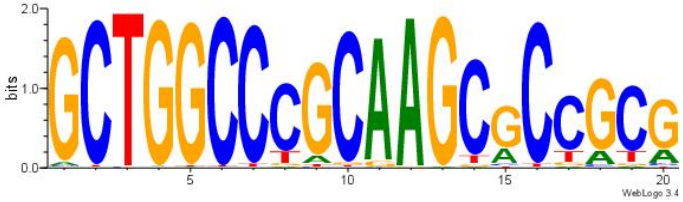

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

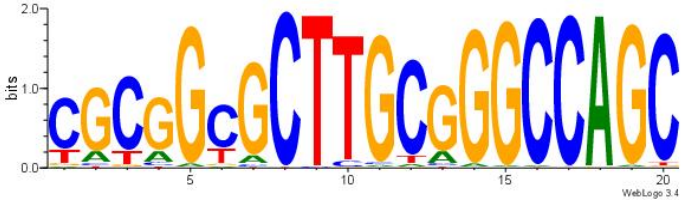

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.107468

Alignment:
GACTGGCAGGCAGCTCCACC
-------GTGAGCGACGCAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

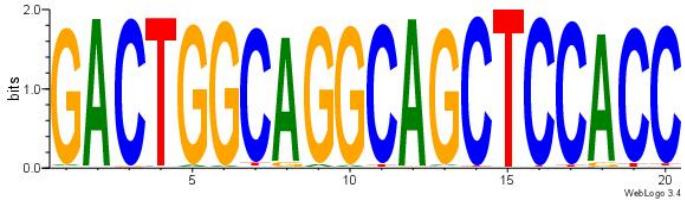

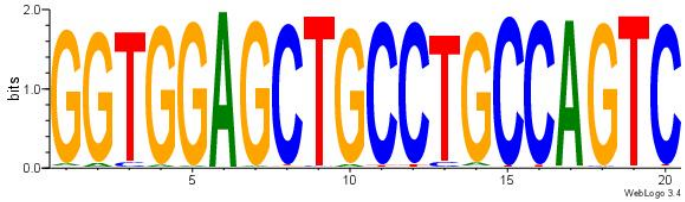

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.108062

Alignment:

```
AGGAGRCMCTCTGCCTGGC
GTGAGCGACGCAG------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

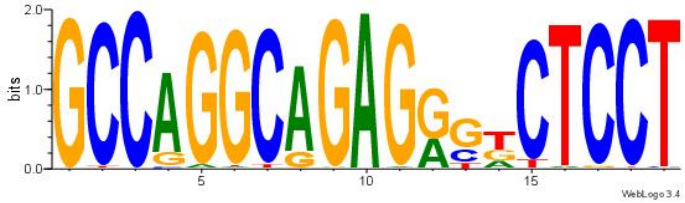

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

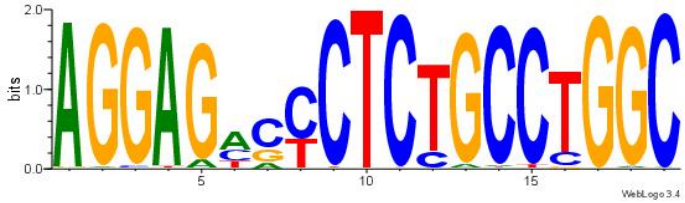

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.108489

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CTGCGTCGCTCAC------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

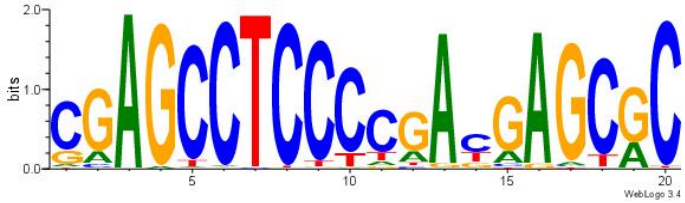

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

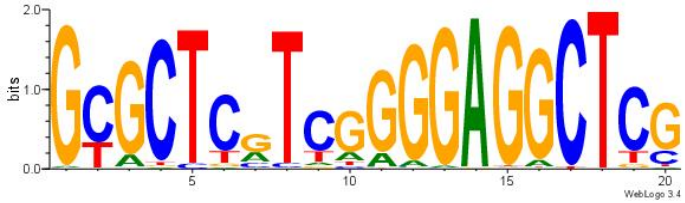

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.108763

Alignment:
CTGTTTGCCTGGGTATCA
----CTGCGTCGCTCAC-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

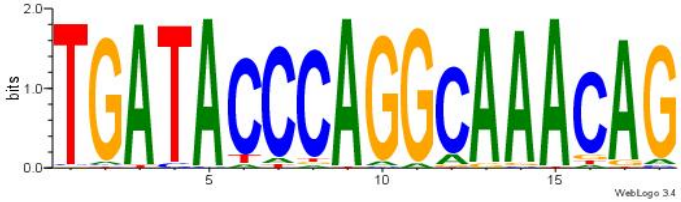

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

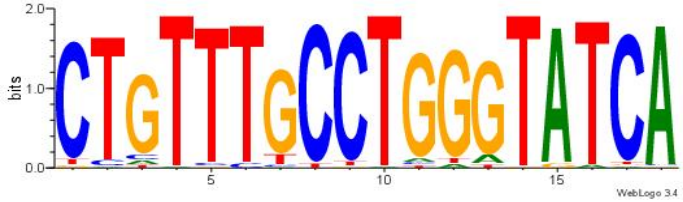

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.108834

Alignment:
TGGCTTCACCCAGTGGATCC
-------CTGCGTCGCTCAC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

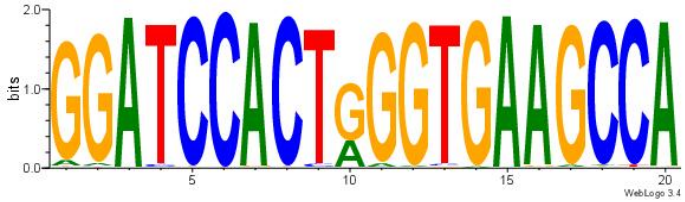

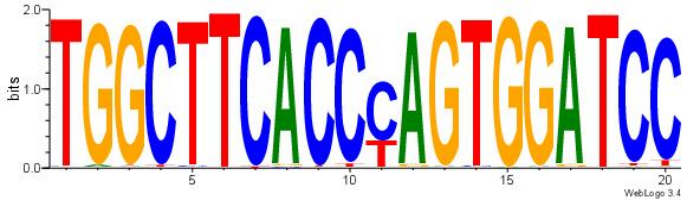

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.108852

Alignment:

```
GTCCCATCGACCACCCAAG
-CTGCGTCGCTCAC-----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

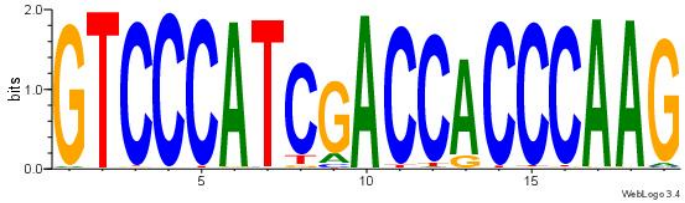

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

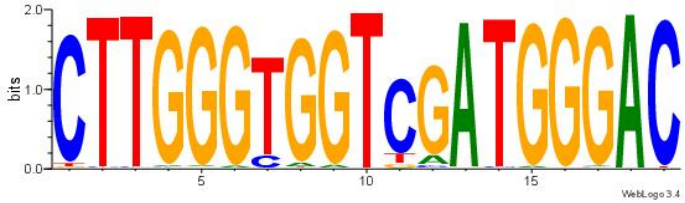

Dataset #: 1

Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.109682

Alignment:

```
GGTGGGAGAAATACCT
-GTGAGCGACGCAG--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

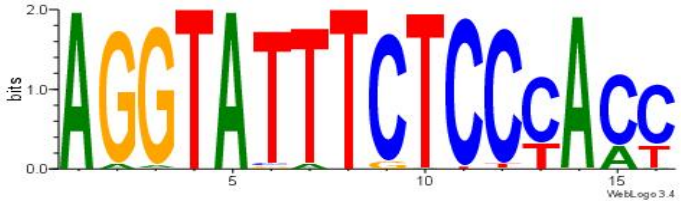

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

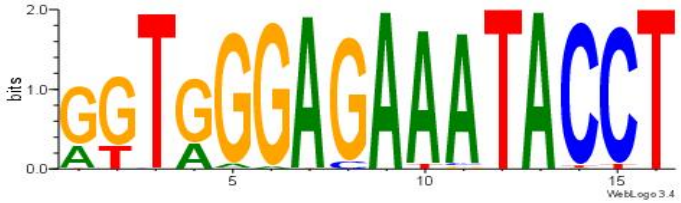

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.109838

Alignment:
CTTTCTGGGCTGGCCAAGG
--CTGCGTCGCTCAC----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

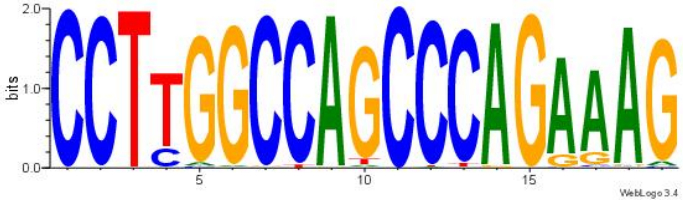

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

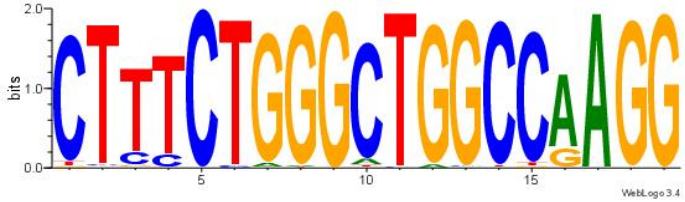

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.110048

Alignment:
ATTGATMKCCAGGGTTGATT
-GTGAGCGACGCAG------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

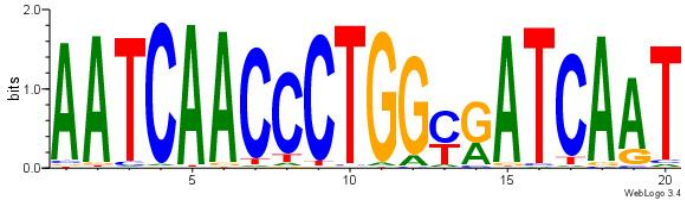

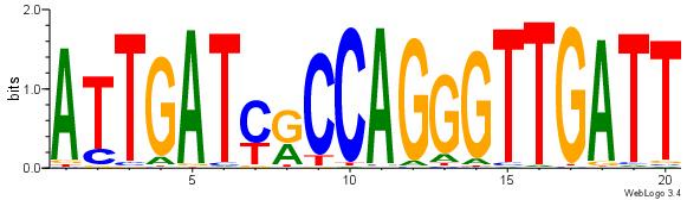

Dataset #: 1 Motif ID: 144 Motif name: Motif 144

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

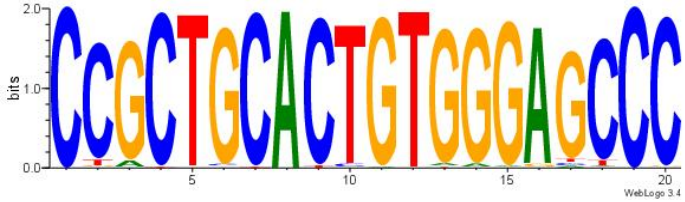

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

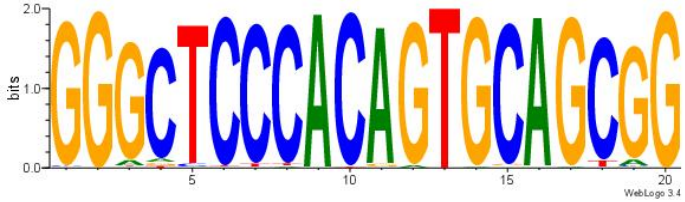

Best Matches for Motif ID 144 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120211

Alignment:

GGATCCACTGGGTGAAGCCA
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

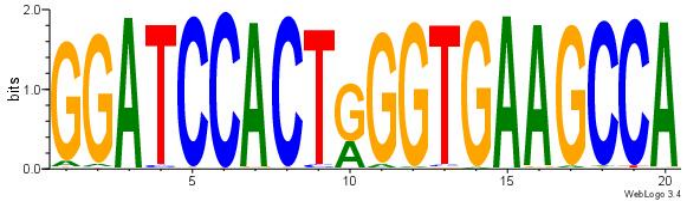

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

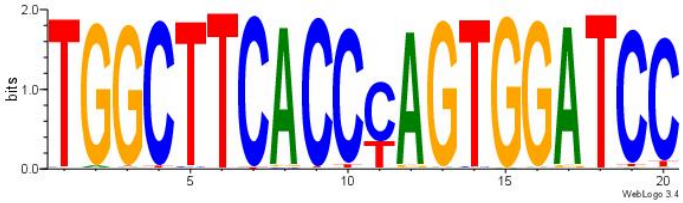

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121341

Alignment:
AAGCTCGAACTGGGTGGAGC
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

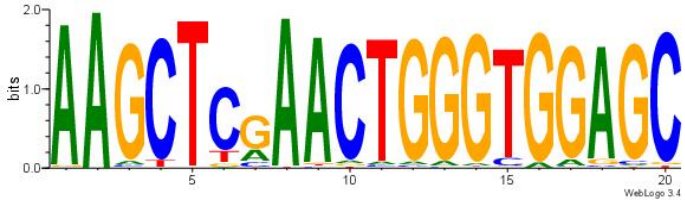

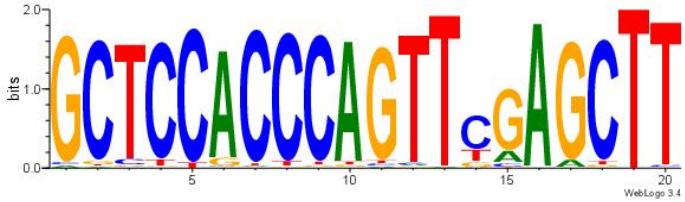

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121783

Alignment:

```
AAAAGTCCACAGTCCAAAGT
GGGCTCCCACAGTGCAGCGG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

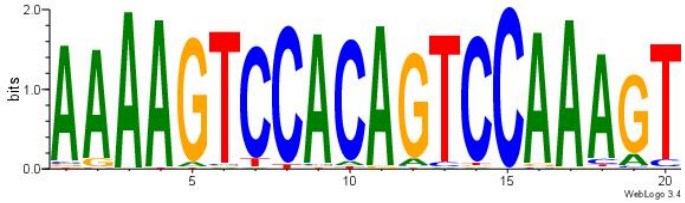

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

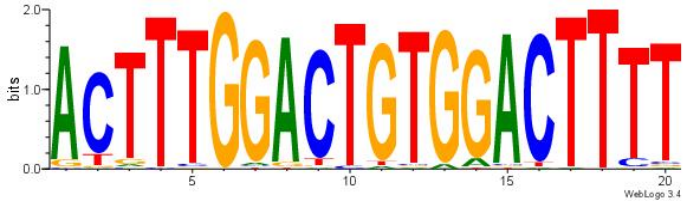

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123294

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

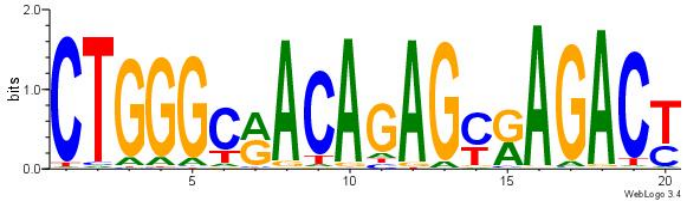

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

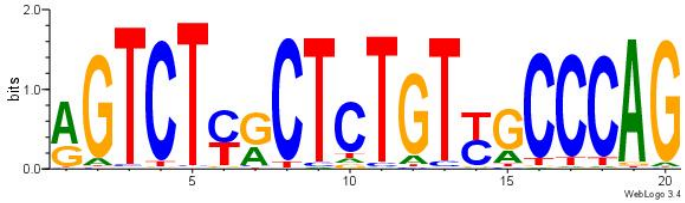

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.123788

Alignment:
CCCATGCAAGTCYRAAATCC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

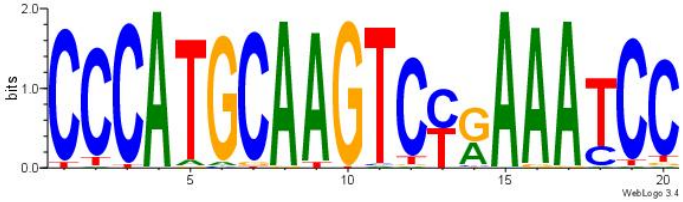

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

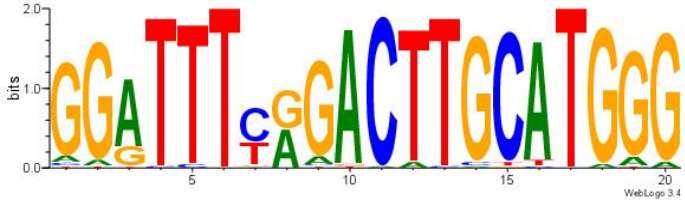

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135391

Alignment:
ATGTAACCAAAYACCACCTG
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

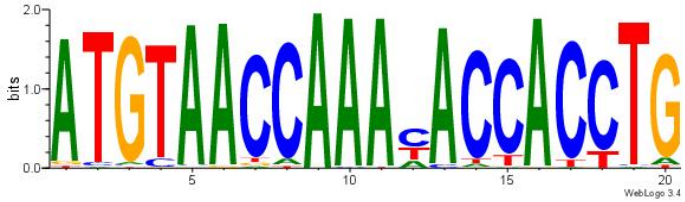

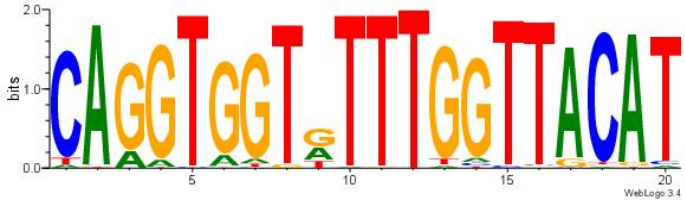

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136234

Alignment:
CGAGCCTCCCCGAYGAGCGC
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

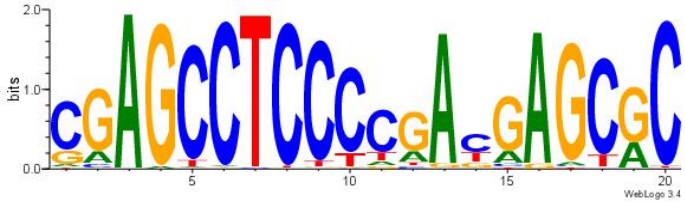

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

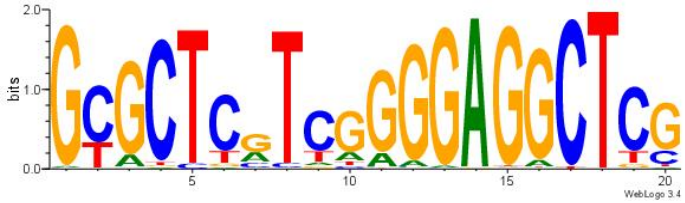

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13893

Alignment:

```
ACTCCCTAGTGAGATGAACC
CCGCTGCACTGTGGGAGCCC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

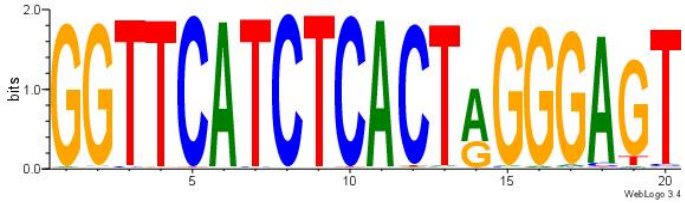

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

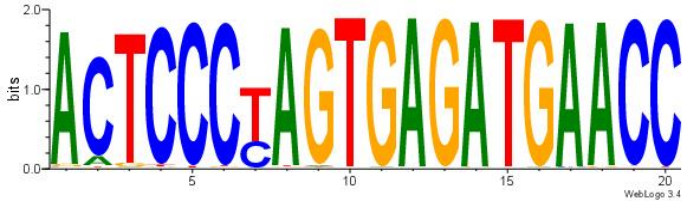

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139039

Alignment:
HAGTGGKATTGCTGGATCAT
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

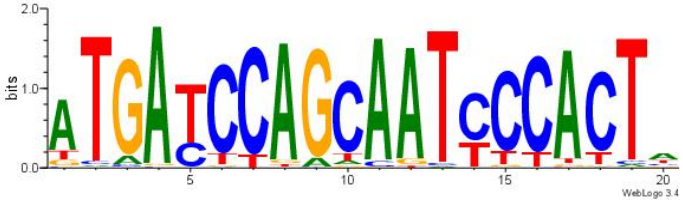

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

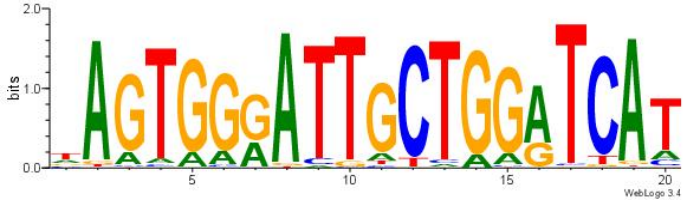

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141981

Alignment:
GGCATCACGGATCCTACCAA
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

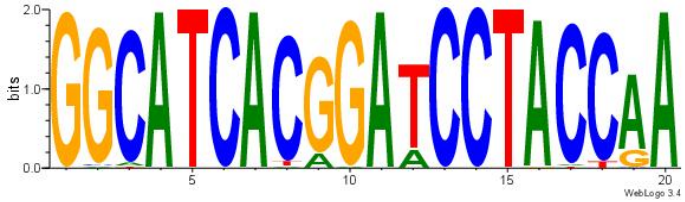

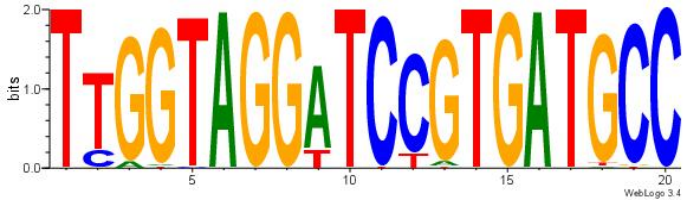

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142154

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
CCGCTGCACTGTGGGAGCCC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

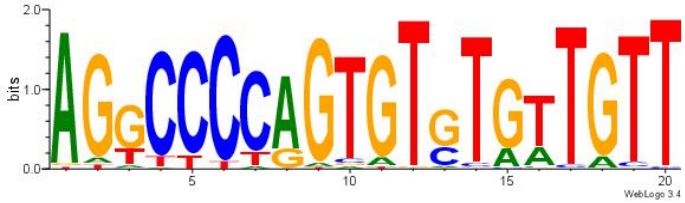

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

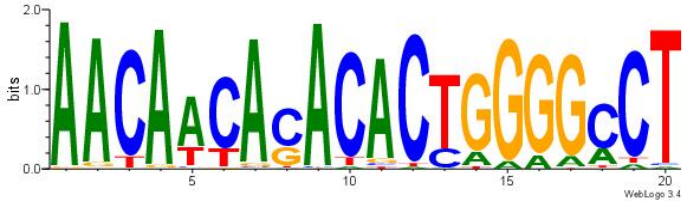

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143098

Alignment:
GCTGGAGTGCAGTGGCRYGA
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

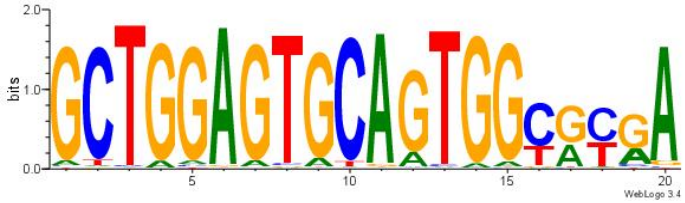

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

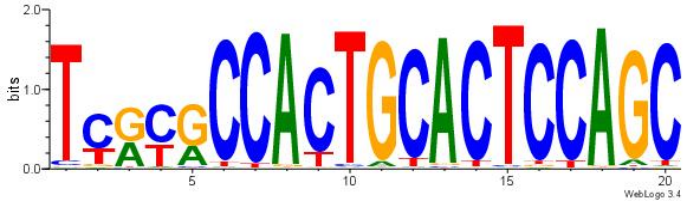

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.143299

Alignment:
GCCKGGMKCMGTGGCTCAKG
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

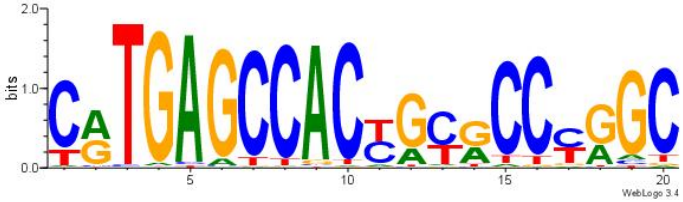

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

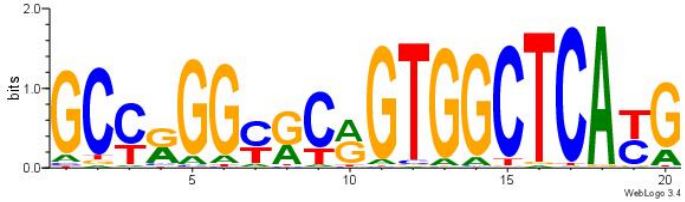

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144368

Alignment:
TCCCTCCCGGACGGGGYGGC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

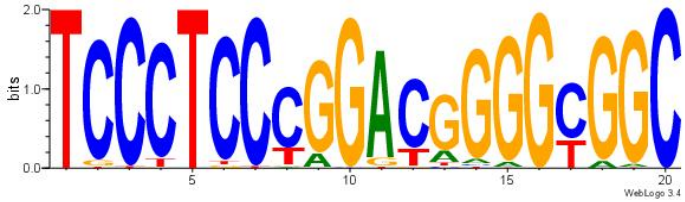

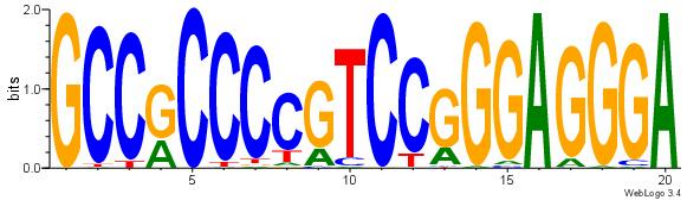

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145604

Alignment:
AAGACCTTCCAGTGGGACAA
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

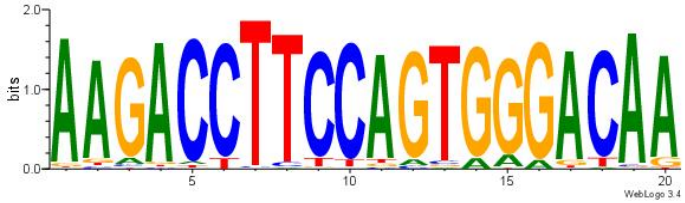

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

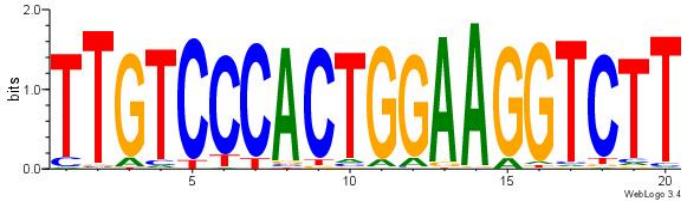

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147792

Alignment:
TMGGGAGGCTGAGGCAGGAG
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

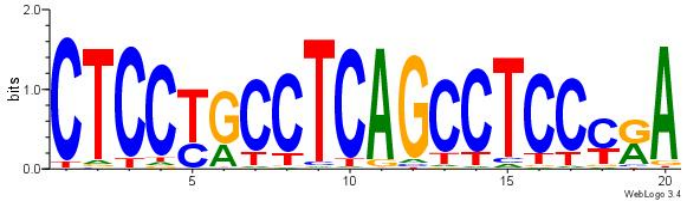

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

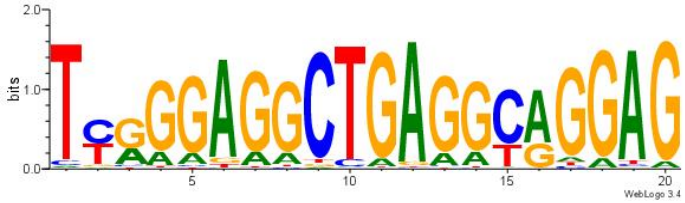

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147926

Alignment:
CTGGCCCTCAATGGTTAAAC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

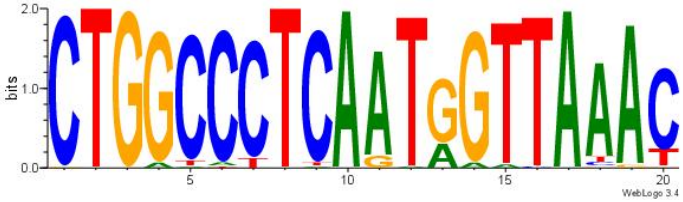

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

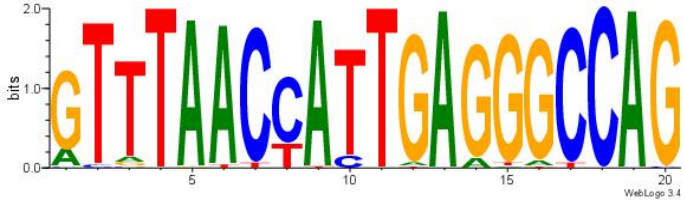

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149369

Alignment:
CGTCGCTCACGCTGGGAGCT
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

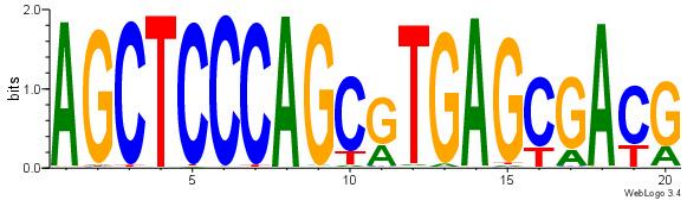

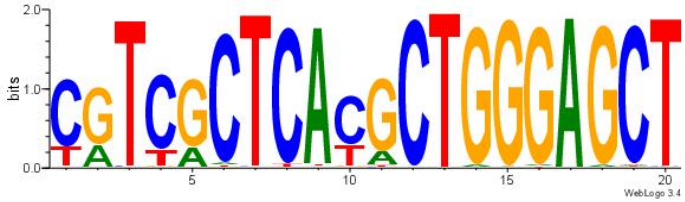

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151027

Alignment:

```
CCACCACAGCTCAAGGAGGC
CCGCTGCACTGTGGGAGCCC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

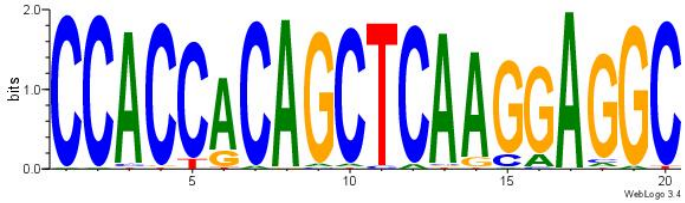

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

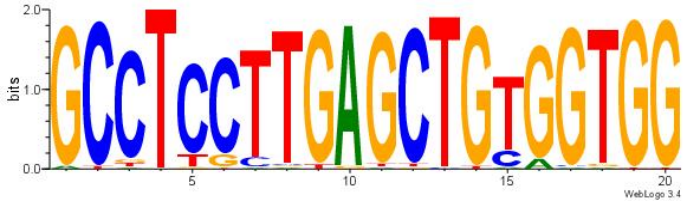

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154221

Alignment:

CAGCTACTCKTATACCCTTG

GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

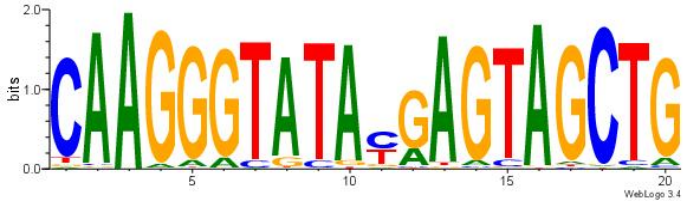

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

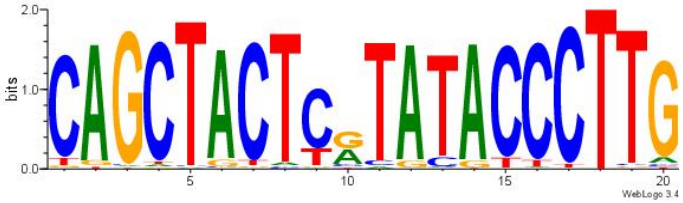

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154237

Alignment:
GGCAATGCCTCGCCCTGCTT
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

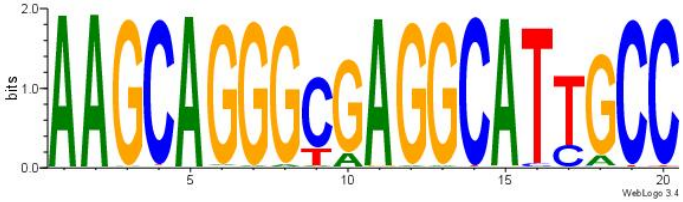

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

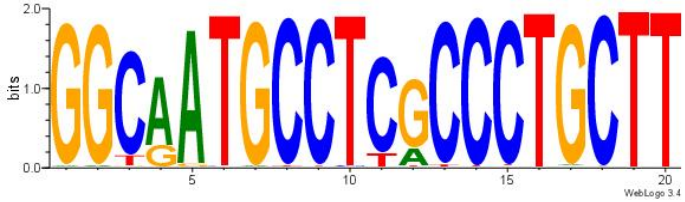

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155896

Alignment:
ACACATCACAAAGCAGTTTC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

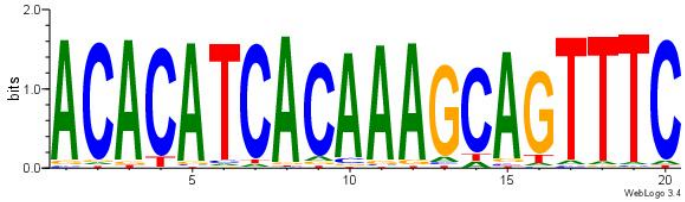

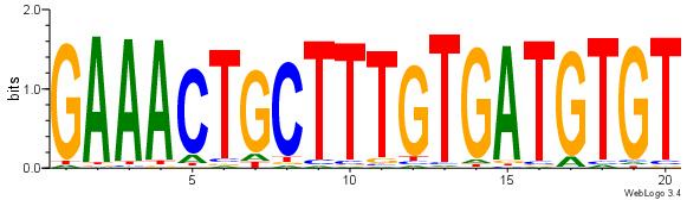

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156297

Alignment:
CACCAGACTCAGGAGCCCAG
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

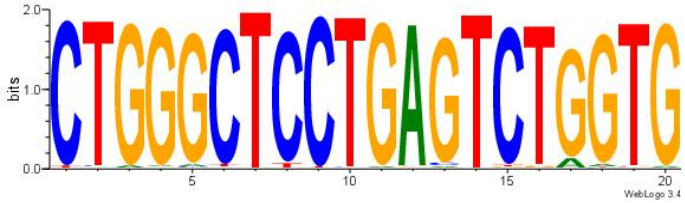

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

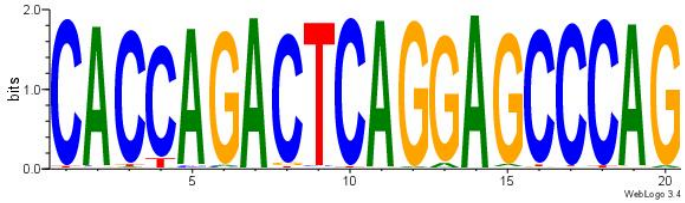

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156299

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CCGCTGCACTGTGGGAGCCC
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

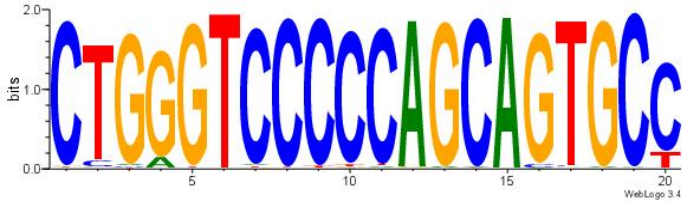

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

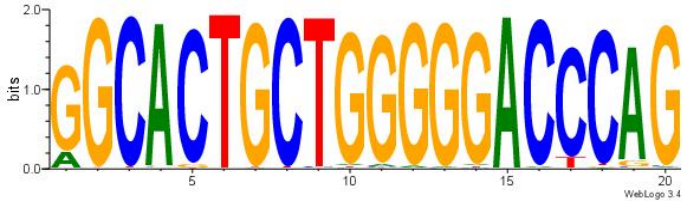

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156572

Alignment:
ACCTGGAAAATCGGGTCACT
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

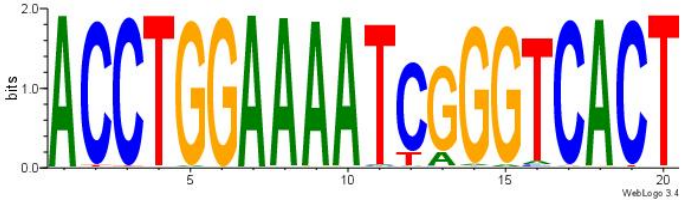

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

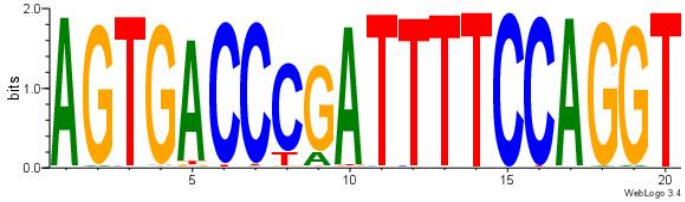

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157388

Alignment:
CGCGGCGCTTGCGGGCCAGC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

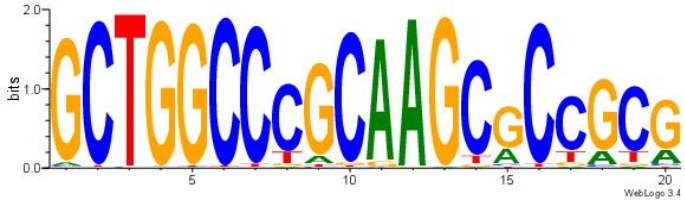

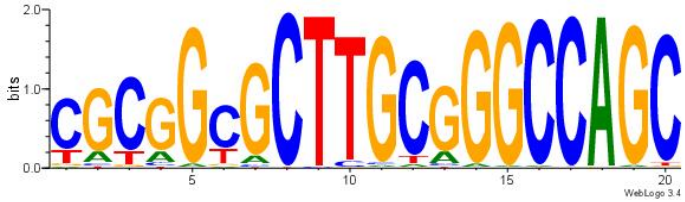

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159172

Alignment:
MGGGATATAATCTCCTGGTG
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

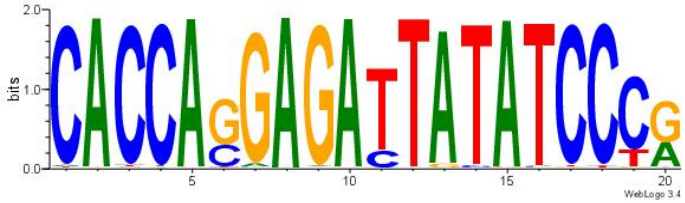

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

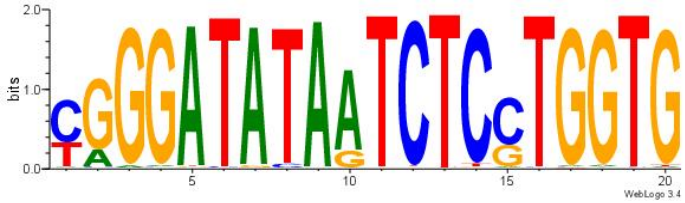

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159785

Alignment:
TCTCTCTCTCTCTCTCTCTC
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

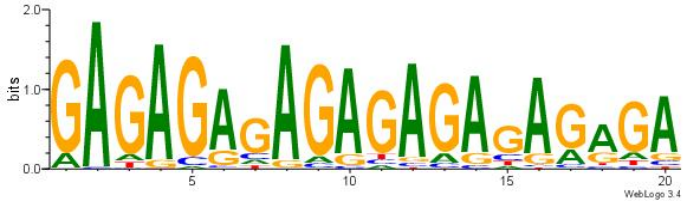

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

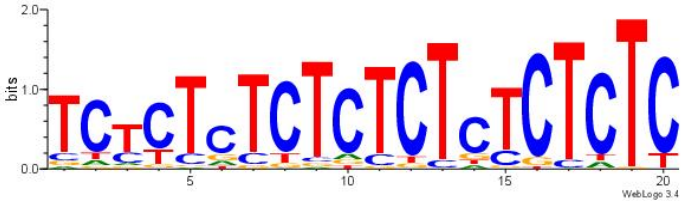

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.159786

Alignment:
AAATTACCCAGTCTCAGGTA
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

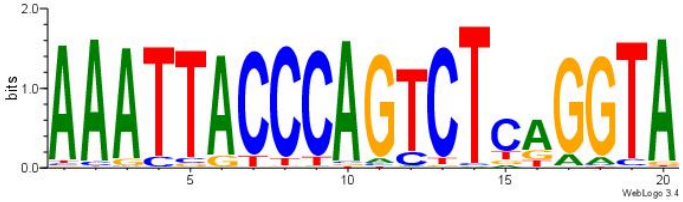

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

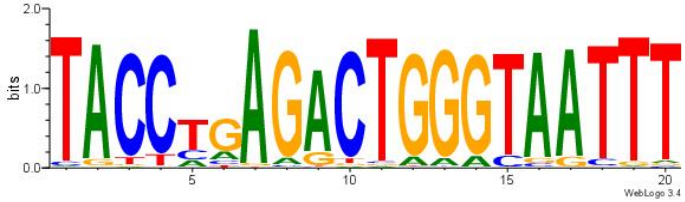

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.160952

Alignment:
GCCAGTCACAAAARGACAMA
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

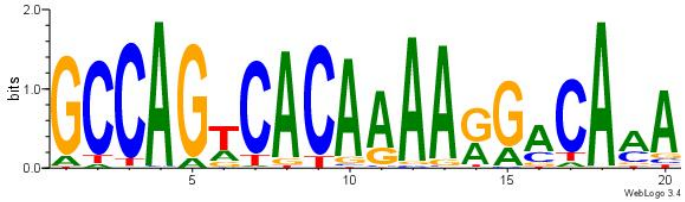

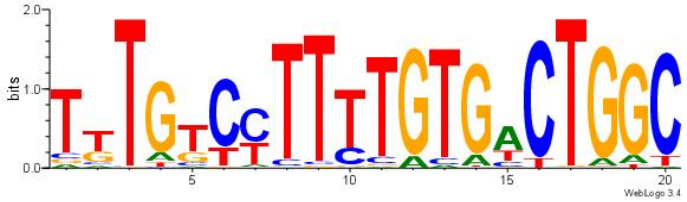

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161223

Alignment:
GGAGCCGGCTCCCTCAGCTT
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

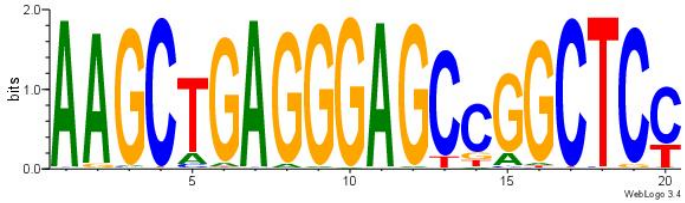

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

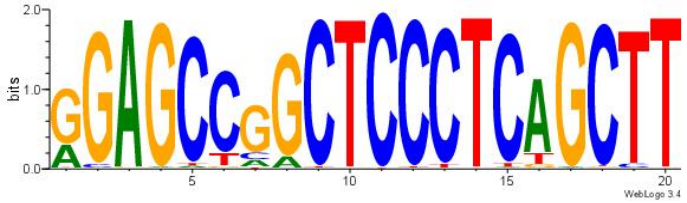

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16411

Alignment:

```
AAGGAACAAACTCCRGACAC
CCGCTGCACTGTGGGAGCCC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

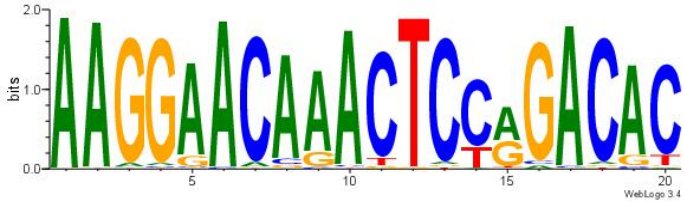

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

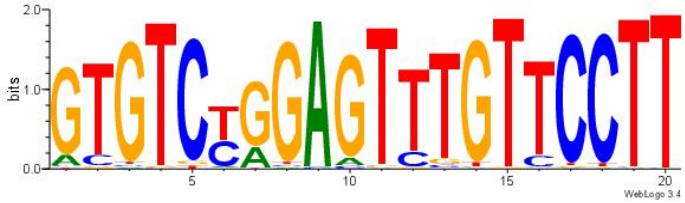

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16446

Alignment:
KCCGGGCCTTAGCTGCCTTC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

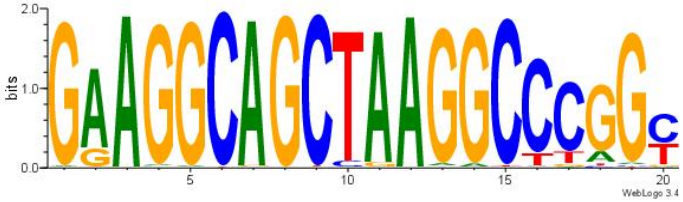

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

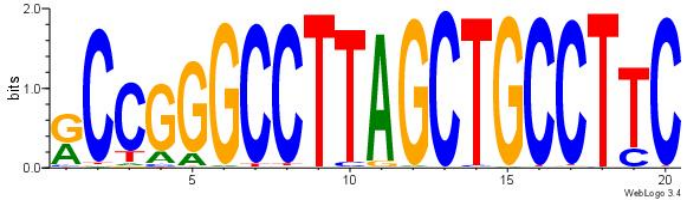

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.165336

Alignment:
GCACATGTAYCCYAGAACTT
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

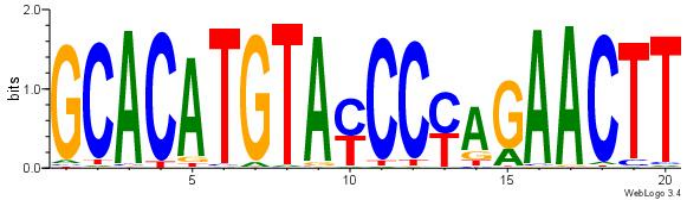

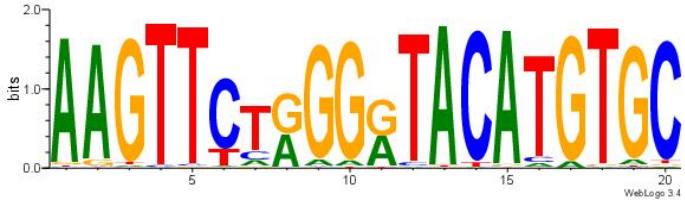

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165338

Alignment:

```
ATTGATMKCCAGGGTTGATT
GGGCTCCCACAGTGCAGCGG
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

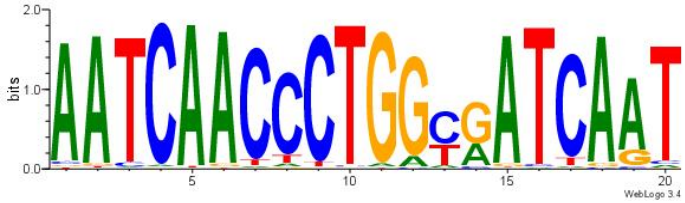

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

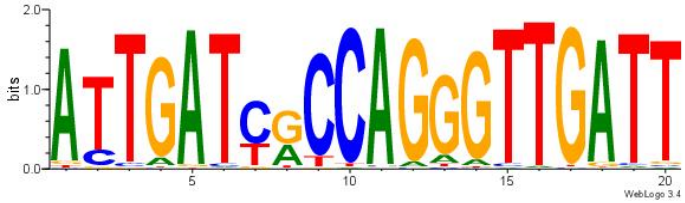

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165751

Alignment:

```
AGAAATCGAGCRCAGCGCCG
GGGCTCCCACAGTGCAGCGG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

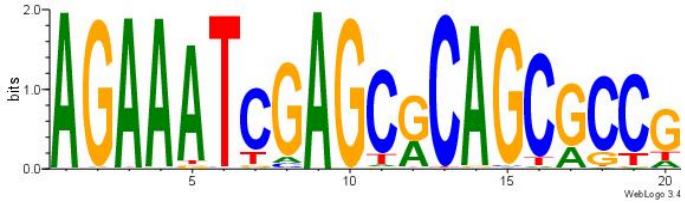

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

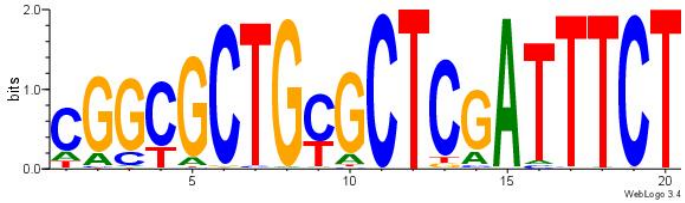

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16595

Alignment:
GGGATTGTAAATACACCAAT
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

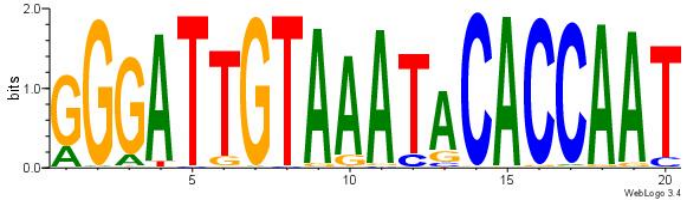

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166127

Alignment:
GGGAGGTGTCTCCCAGTCAG
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

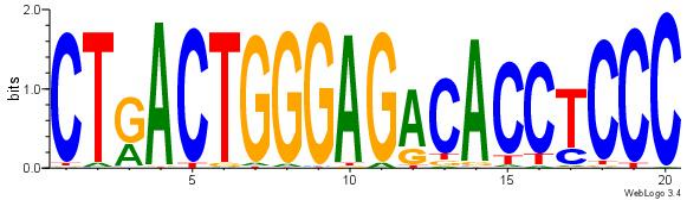

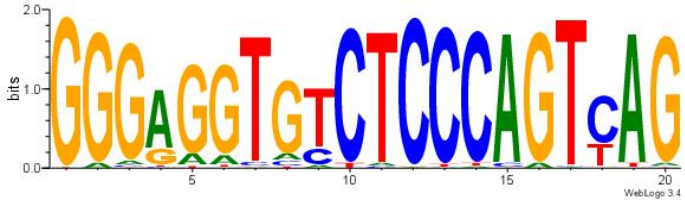

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.166307

Alignment:
GCTGTGTGACCTTGGGCAAG
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

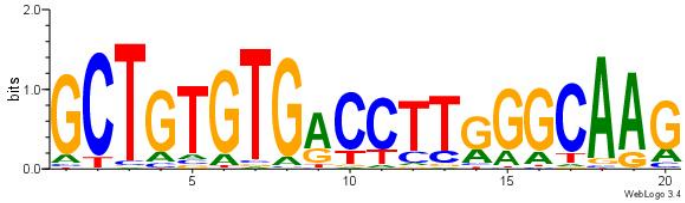

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

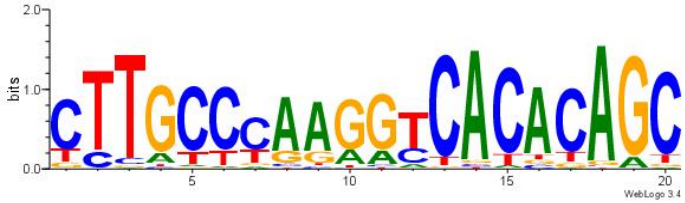

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166723

Alignment:

CTCCAGKTMCATCCATGTTG
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

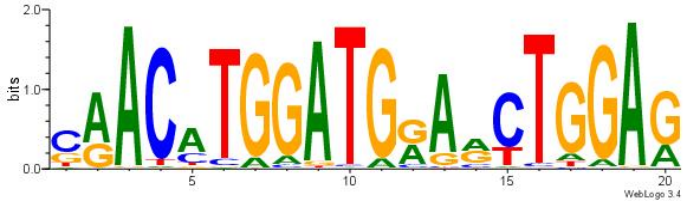

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

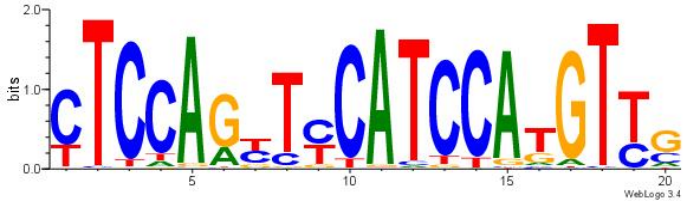

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.166795

Alignment:
ATGTGGAGGTGGAAGACAGT
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

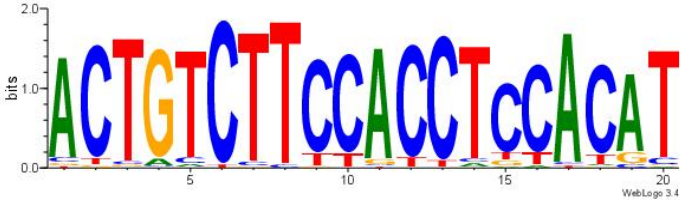

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

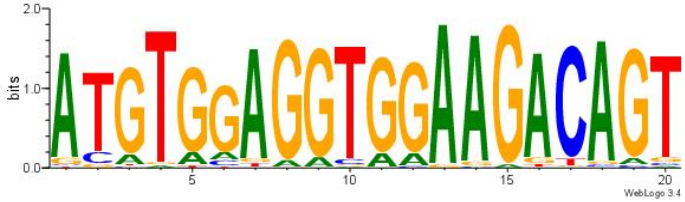

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.167443

Alignment:
AGGTCCTTCAGGAGGTATTC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

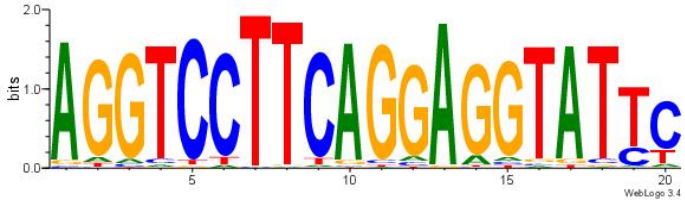

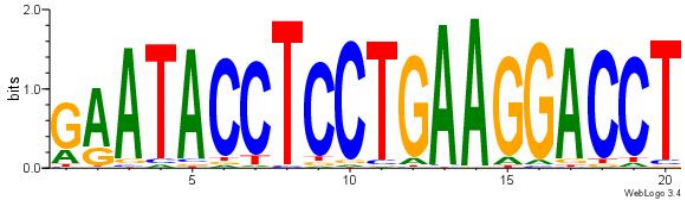

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167443

Alignment:

```
GCCTCTCCCTCCACACCTCC
CCGCTGCACTGTGGGAGCCC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

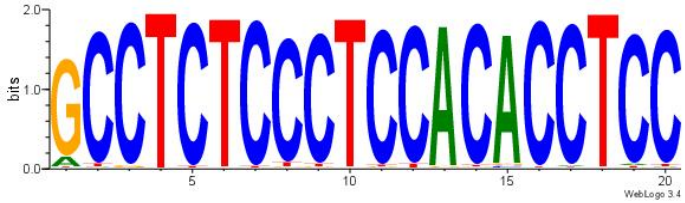

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

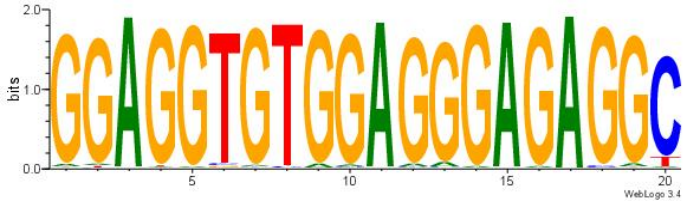

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167469

Alignment:
GGTGGAGCTGCCTGCCAGTC
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

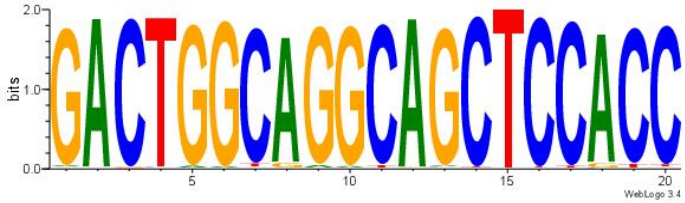

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

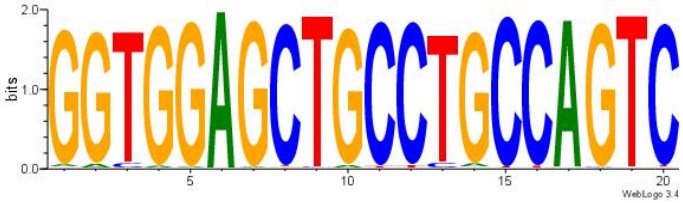

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.168384

Alignment:
CCCMKGGCACCCTCAGTCCT
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

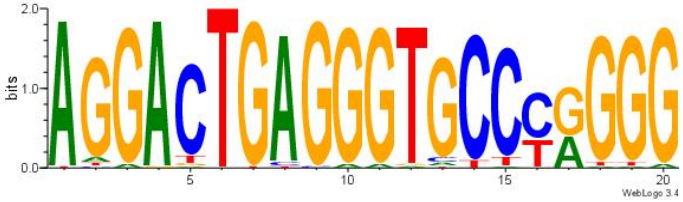

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

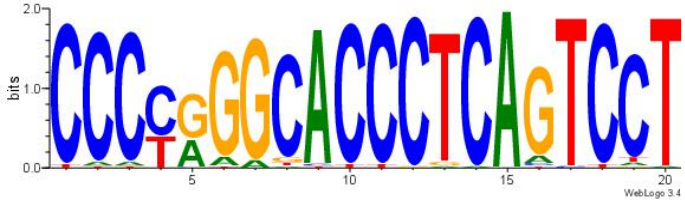

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.168732

Alignment:
ATGGAATAYTATTCAGCCAT
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

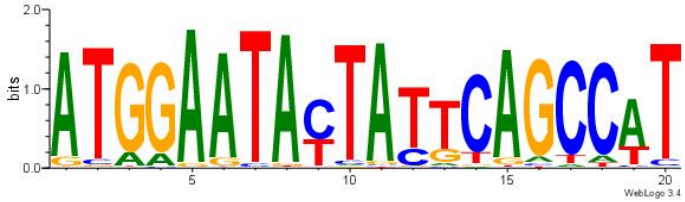

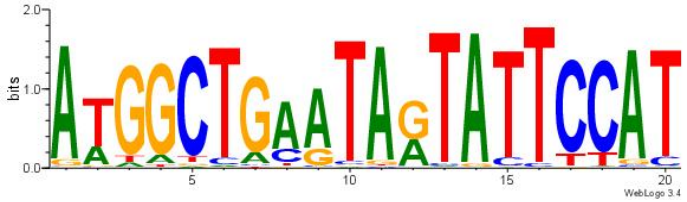

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.170704

Alignment:
CMTAGYACAGTGCCTGGCAC
GGGCTCCCACAGTGCAGCGG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

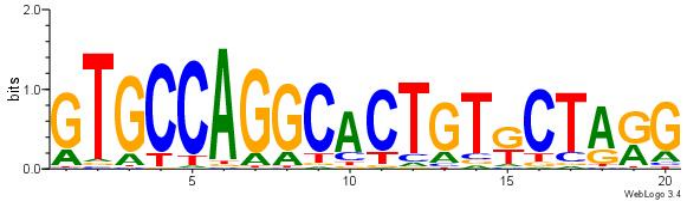

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

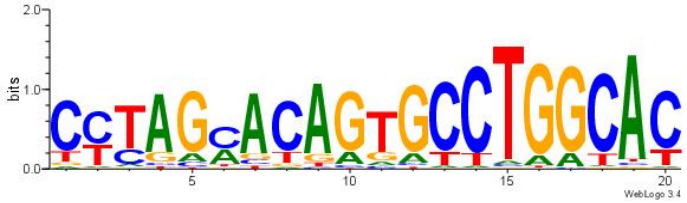

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.17341

Alignment:

```
AAAMAMMKMATGTTCTCACT
GGGCTCCCACAGTGCAGCGG
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

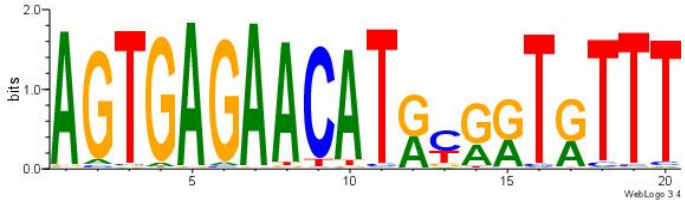

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

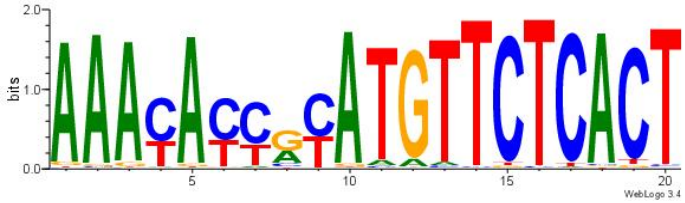

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.174526

Alignment:
AAAATGTGGTAYATAYAYAC
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

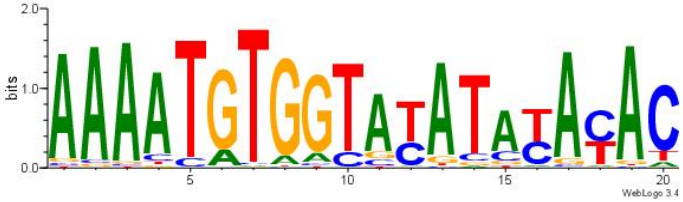

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

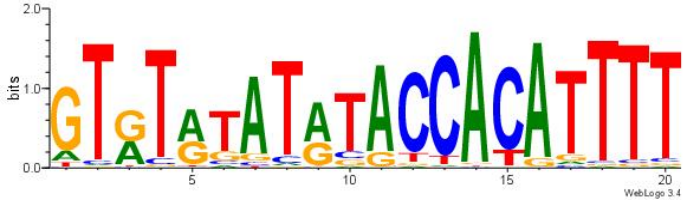

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.174828

Alignment:
AGTAGGTGCTCARTAAATRB
CCGCTGCACTGTGGGAGCCC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

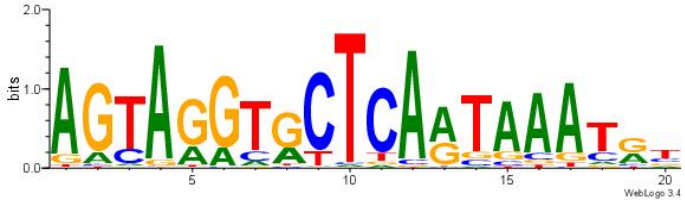

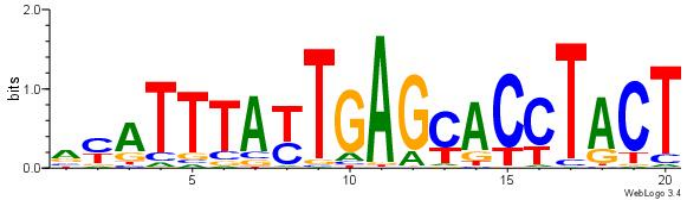

Dataset #: 1 Motif ID: 145 Motif name: Motif 145

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

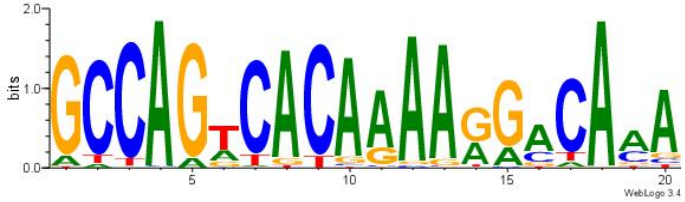

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

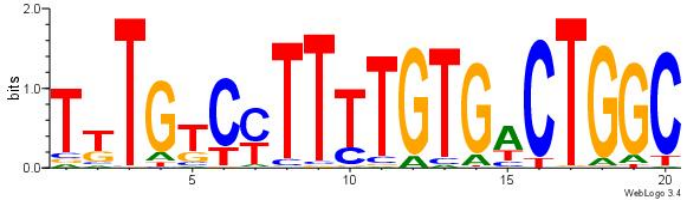

Best Matches for Motif ID 145 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0929275

Alignment:

GTCTCWAMAAAAAAWAMAAA
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

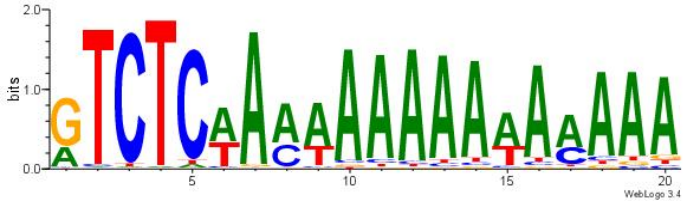

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

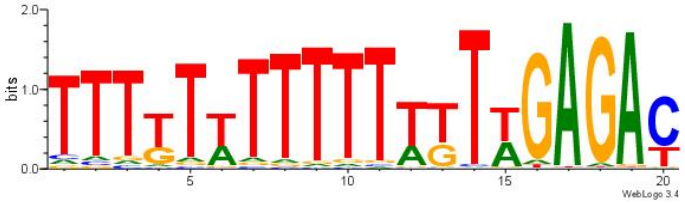

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0984643

Alignment:
GAGAGAGAGAGAGAGAGAGA
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

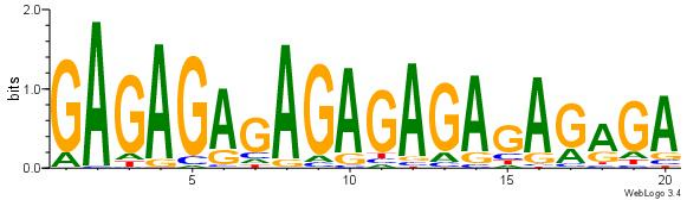

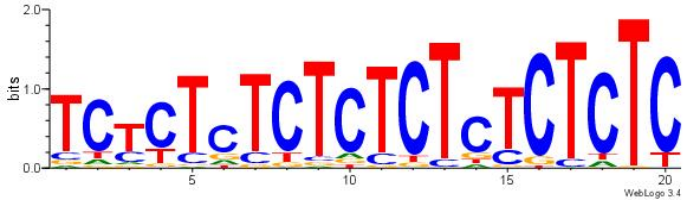

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.110928

Alignment:

```
GCAAAKGACATGATYTCATT
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

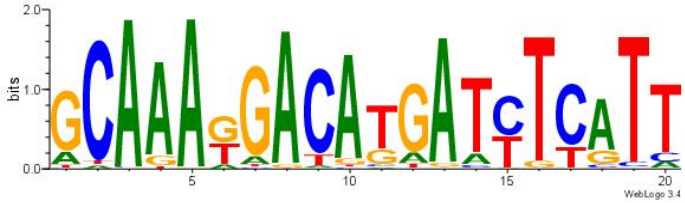

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

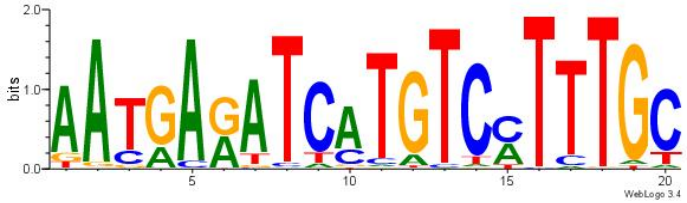

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114037

Alignment:
AGCTGTGAGAAGAGGGCCAC
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

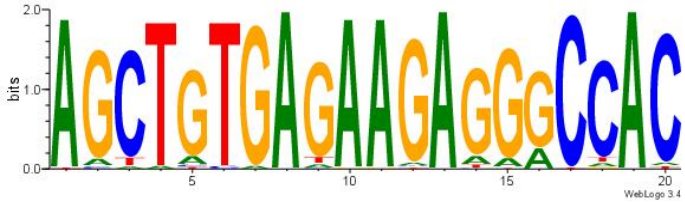

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

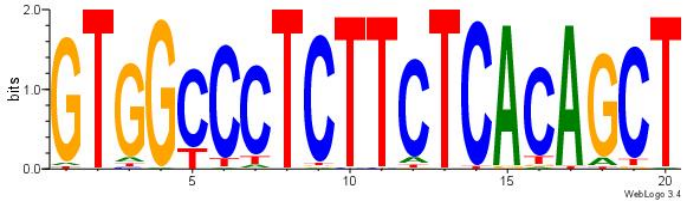

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.115384

Alignment:
GCCKGGMKCMGTGGCTCAKG
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

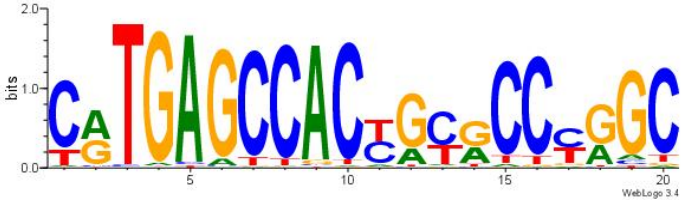

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

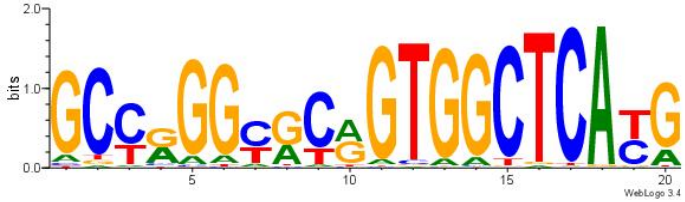

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.122469

Alignment:
MGTCTMKCTCTGTKGCCCAG
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

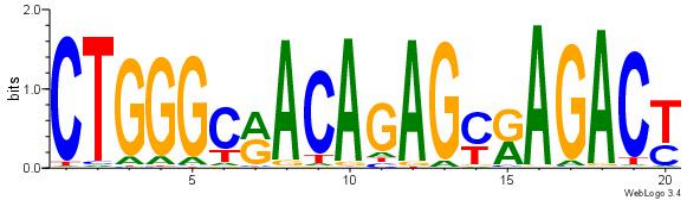

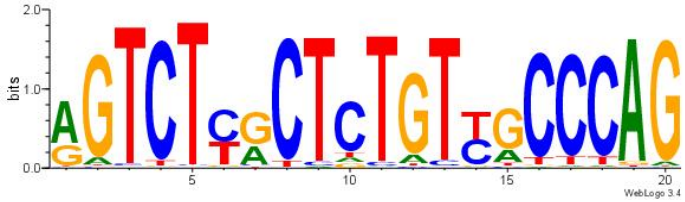

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125337

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

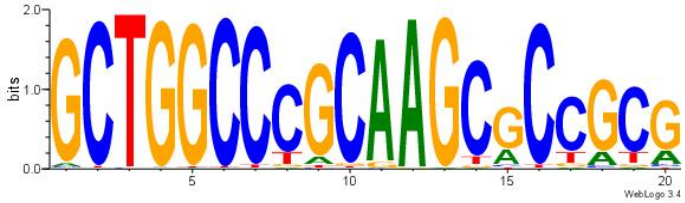

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

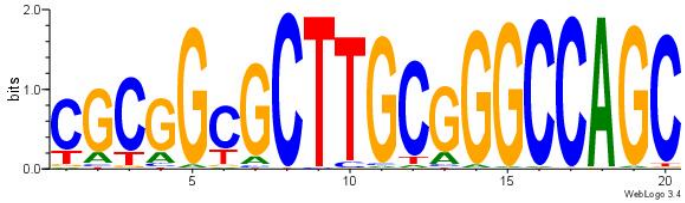

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125699

Alignment:

```
ACCTGGAAAATCGGGTCACT
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

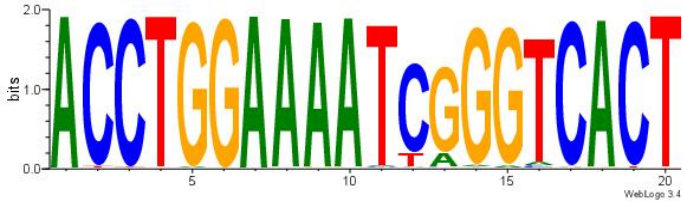

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

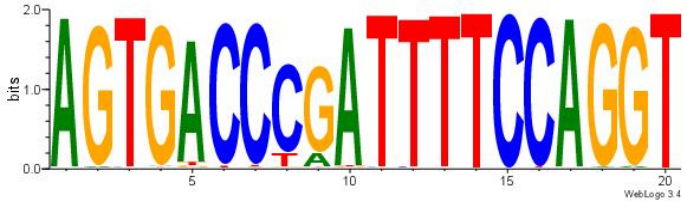

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.128654

Alignment:
CTTGCCCAAGGTCACACAGC
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

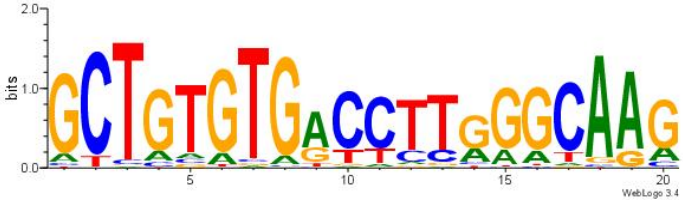

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

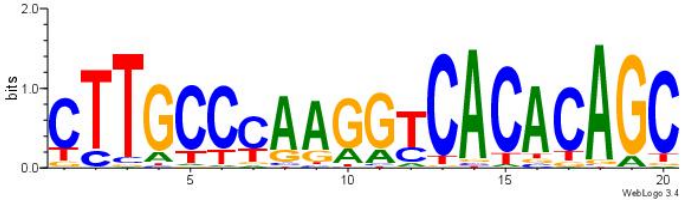

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129276

Alignment:
GCTGGAGTGCAGTGGCRYGA
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

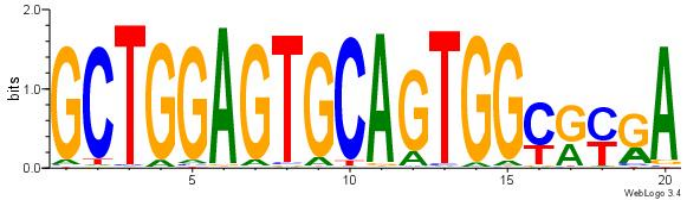

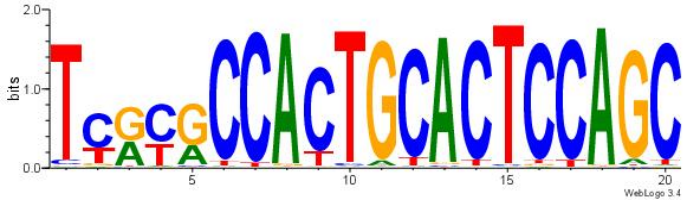

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129717

Alignment:

```
GACTGGCAGGCAGCTCCACC
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

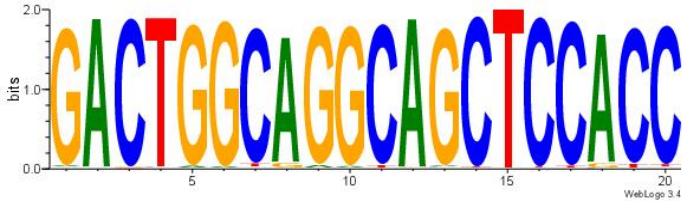

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

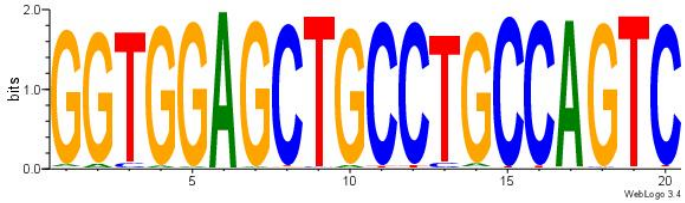

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130101

Alignment:
ACACATCACAAAGCAGTTTC
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

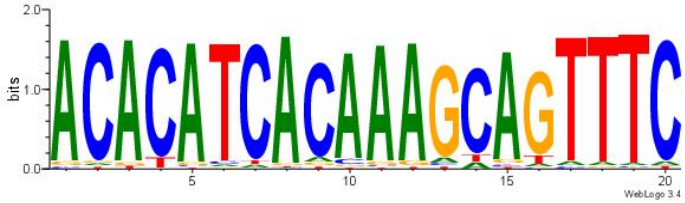

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

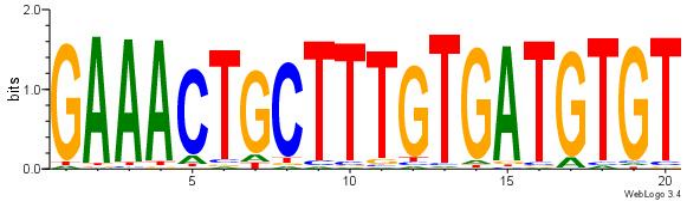

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.130453

Alignment:
AGTAGGTGCTCARTAAATRB
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

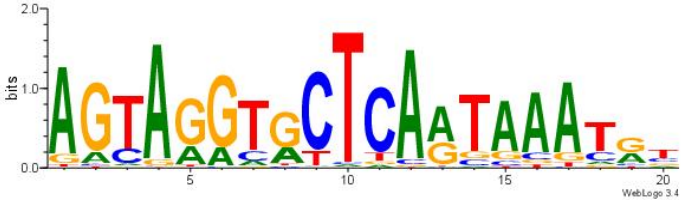

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

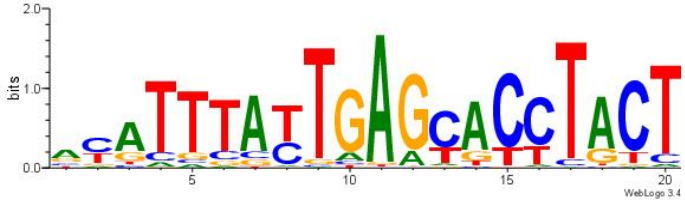

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131848

Alignment:
ACCKTCGCGGTGAGTGTTAC
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

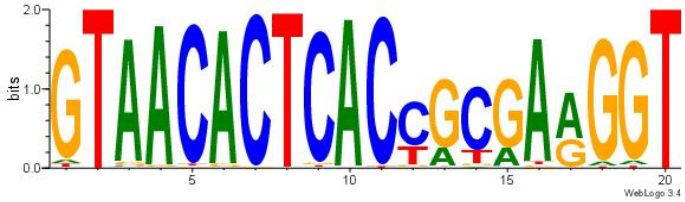

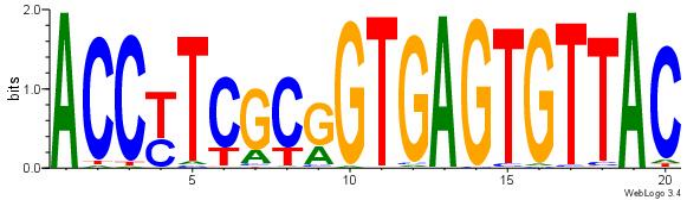

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132463

Alignment:

```
TCCCTCCCGGACGGGGYGGC
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

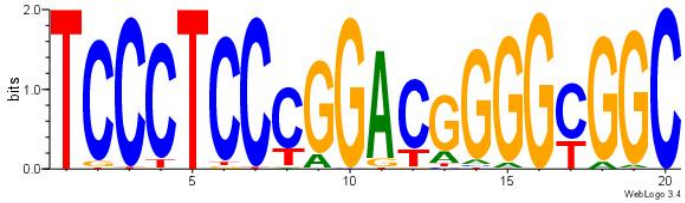

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

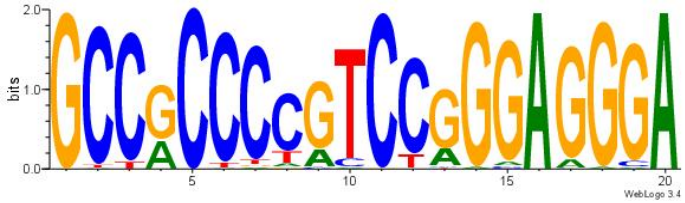

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133618

Alignment:

```
GAAHCAACCKAAKTGTCCAT
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

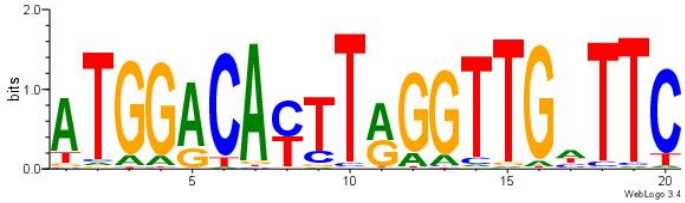

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

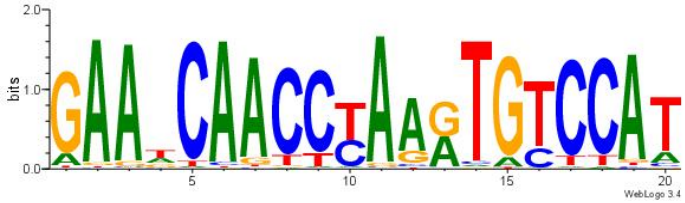

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133837

Alignment:
GCCTCTCCCTCCACACCTCC
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

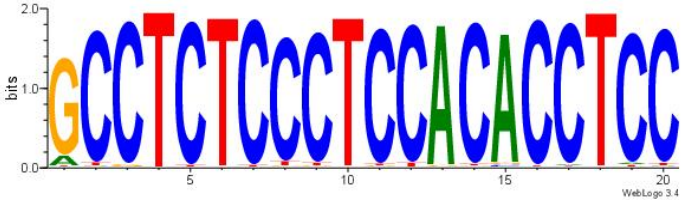

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

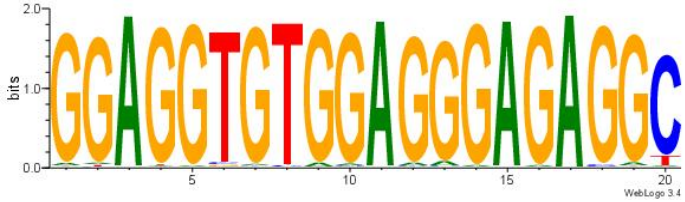

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133857

Alignment:
ATTGGTGTATTTACAATCCC
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

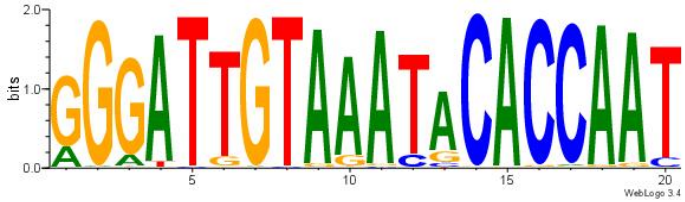

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136721

Alignment:

```
TTCAMTCATGATTTGGCTCT
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

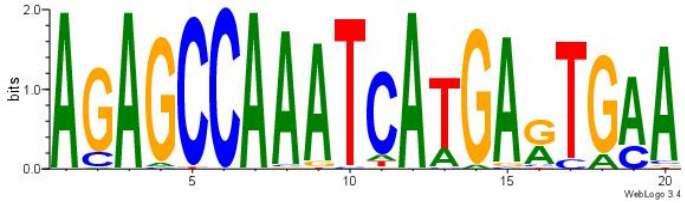

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

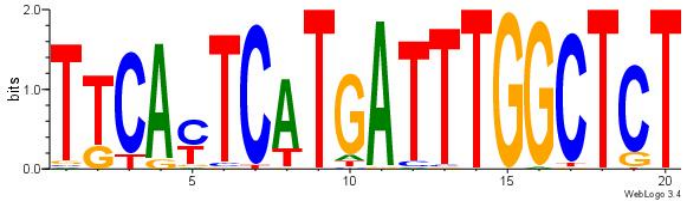

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138045

Alignment:

KCCGGGCCTTAGCTGCCTTC

TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

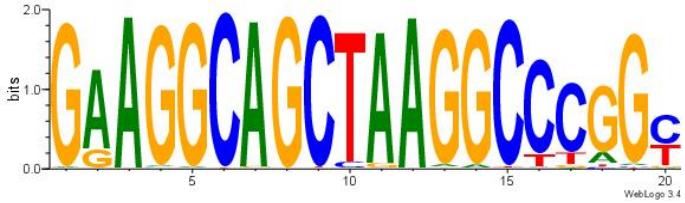

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

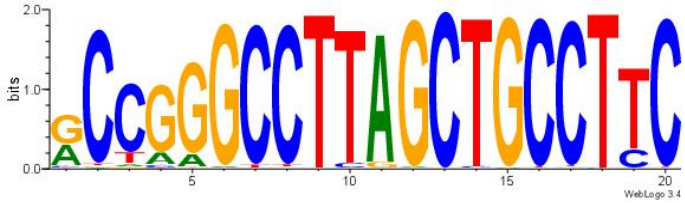

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138462

Alignment:
GGATTTMKGACTTGCATGGG
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

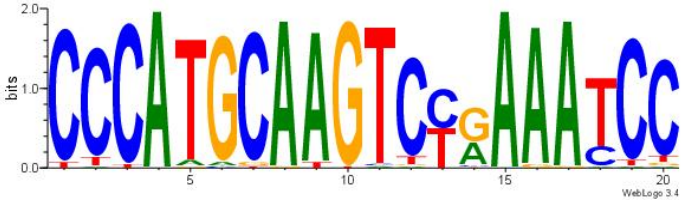

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

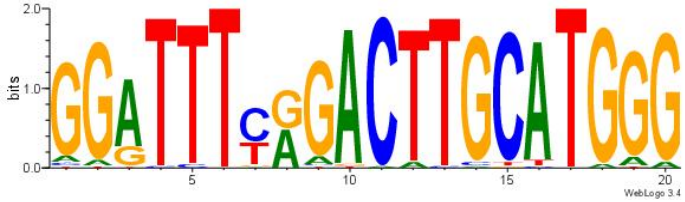

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138747

Alignment:
TCCAAATGGGAGAAATTGGC
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

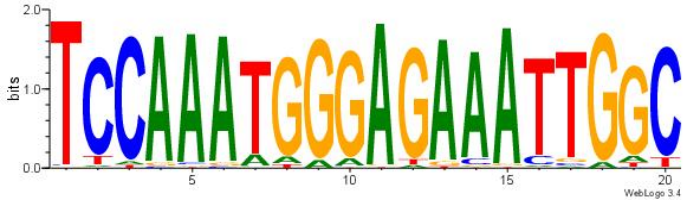

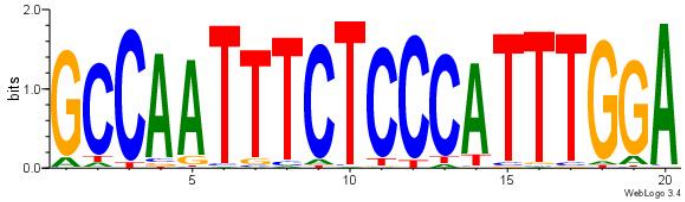

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139611

Alignment:

```
GACAGGAGATTAACACTGAG
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

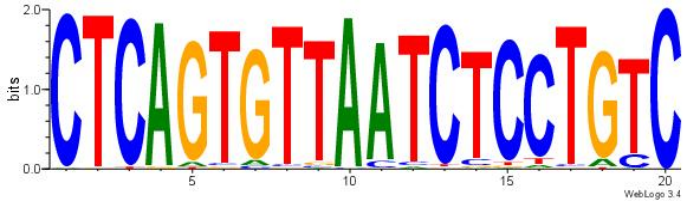

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

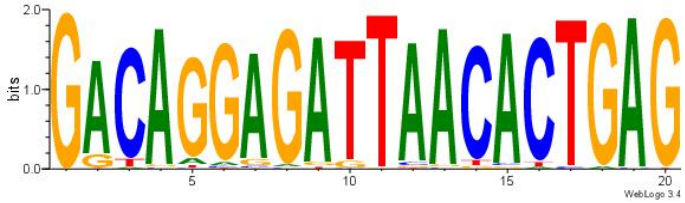

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142339

Alignment:

```
TTGGTAGGATCCGTGATGCC
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

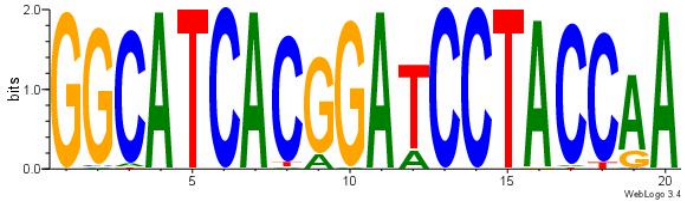

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

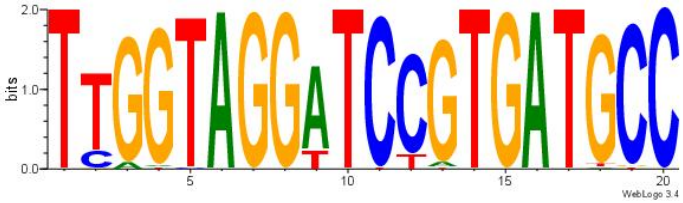

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.142606

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

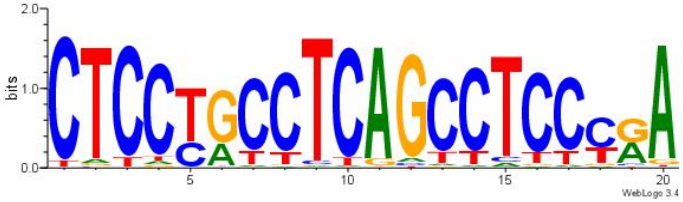

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

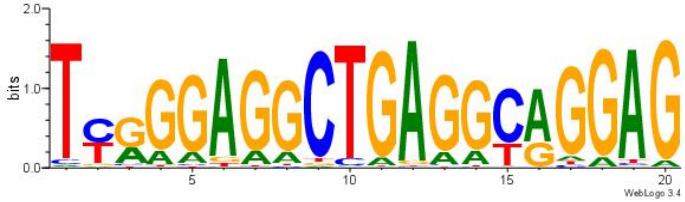

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142725

Alignment:
GCTCCACCCAGTTCGAGCTT
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

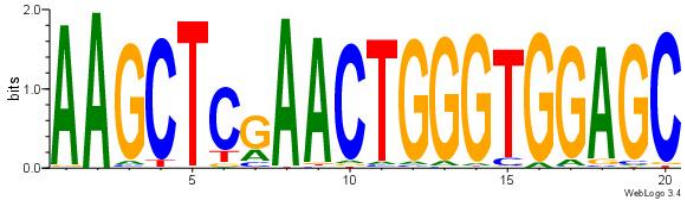

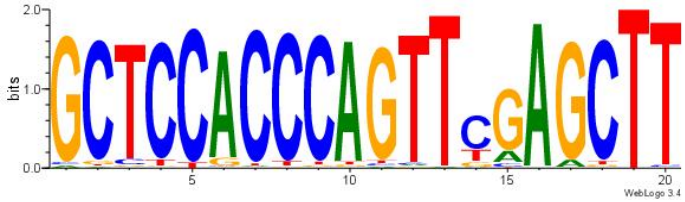

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143626

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

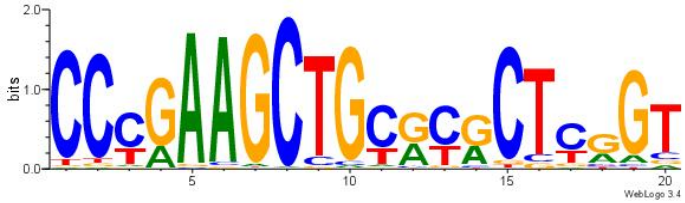

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

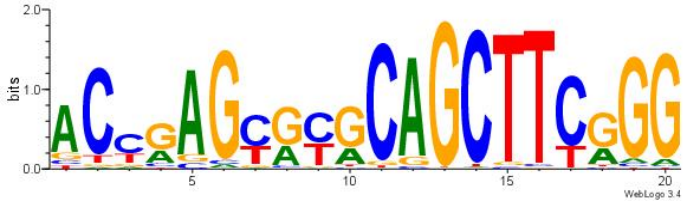

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145858

Alignment:

```
ACTTTGGACTGTGGACTTTT
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

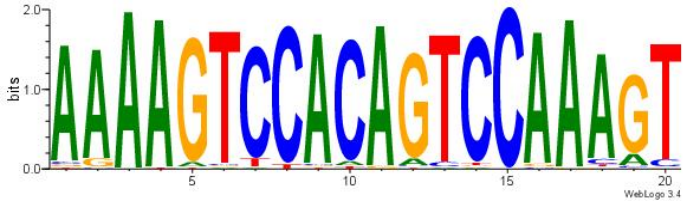

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

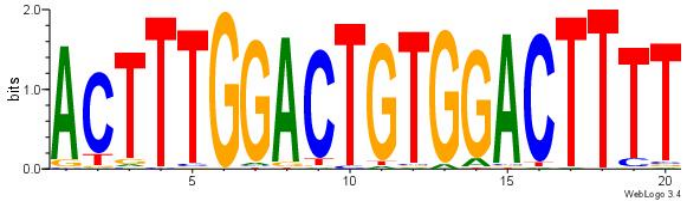

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145962

Alignment:
HAGTGGKATTGCTGGATCAT
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

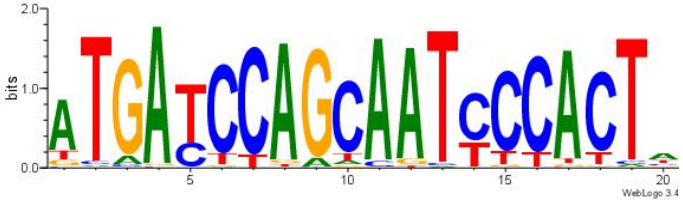

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

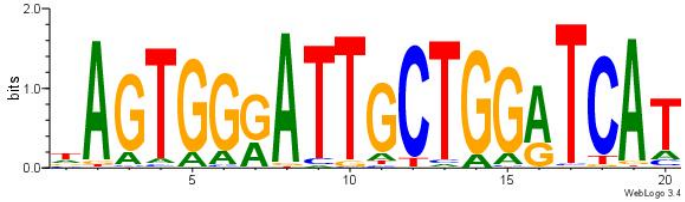

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146077

Alignment:
ATCTGACAGGAGGYRGAGCT
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

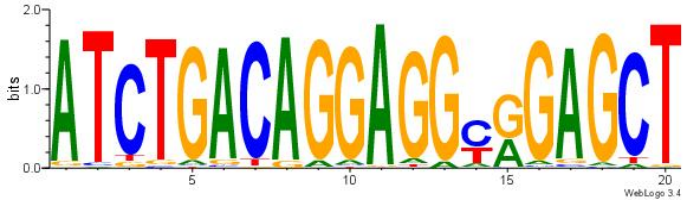

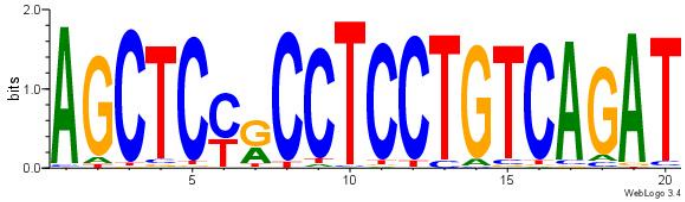

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146302

Alignment:

```
CTAGACATAAAGGTTCTCCA
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

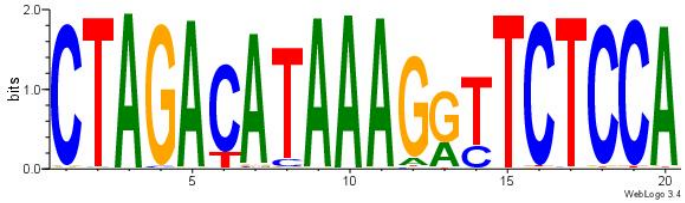

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

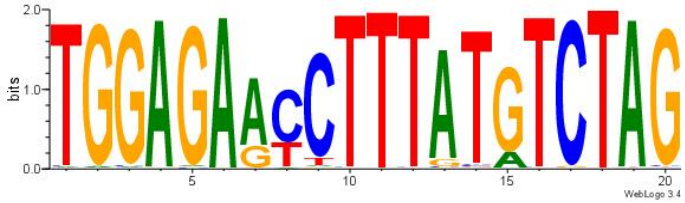

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1466

Alignment:

```
CAAGTTGACACATAAAATTA
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

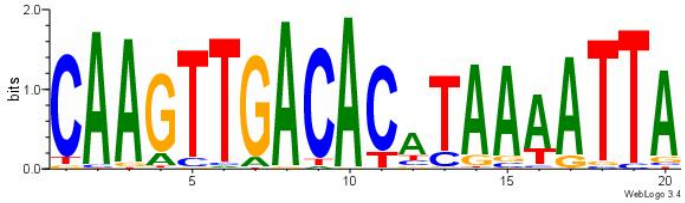

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

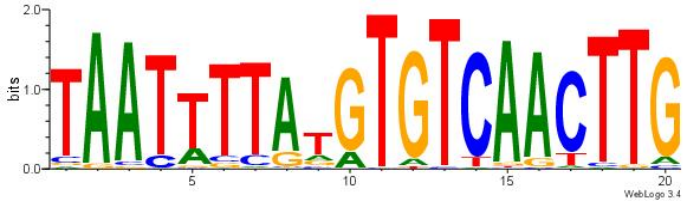

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.14678

Alignment:
AGGTTTGTTACATAGGTAWA
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

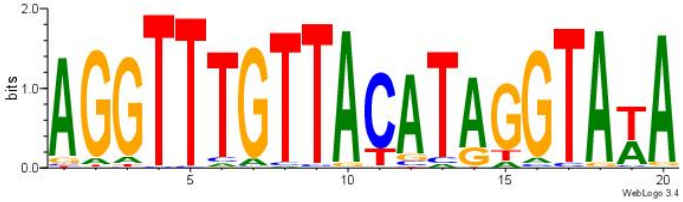

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

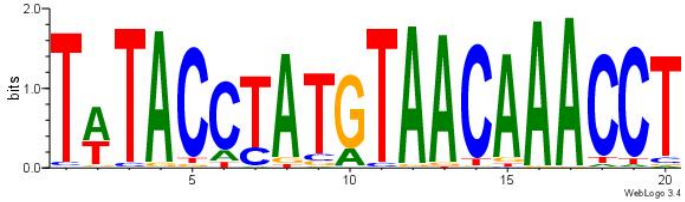

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.147091

Alignment:
TTGTCCCACTGGAAGGTCTT
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

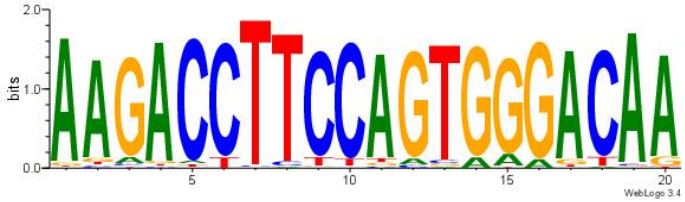

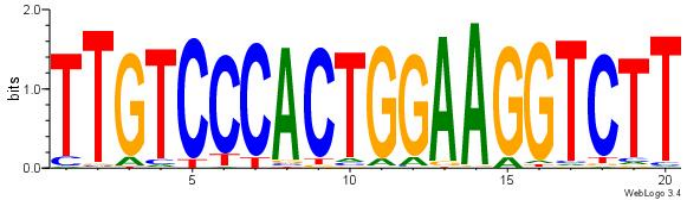

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147252

Alignment:
ATGTGGAGGTGGAAGACAGT
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

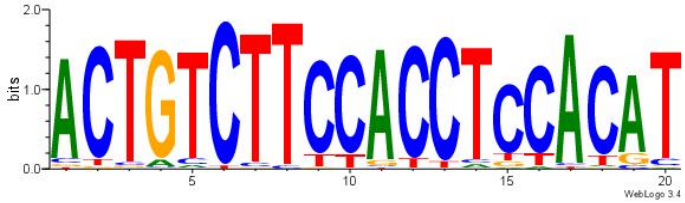

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

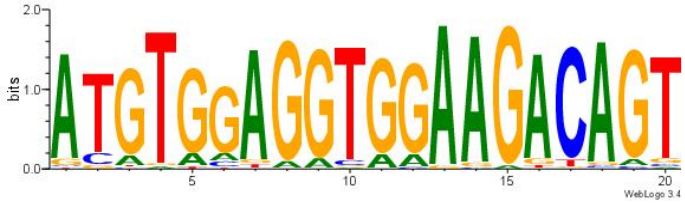

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14802

Alignment:
AATCAACCCTGGYRATCAAT
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

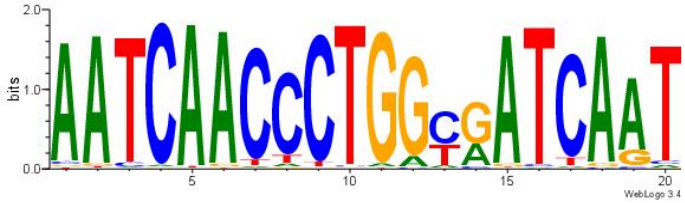

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

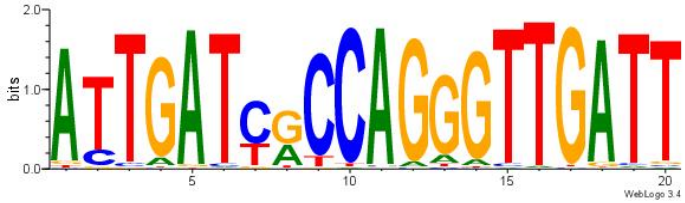

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148916

Alignment:
TCTGGAGTGGACCTCCAGCA
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

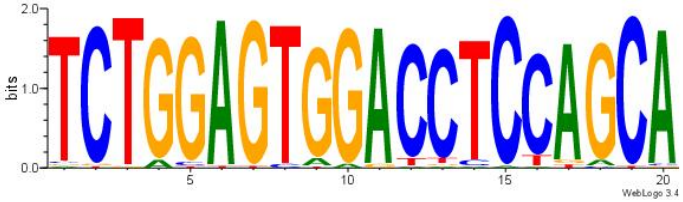

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

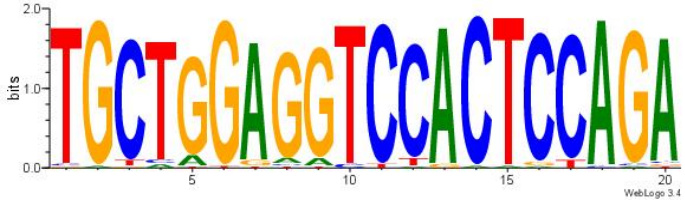

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.14978

Alignment:
AGCTCCCAGCGTGAGCGACG
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

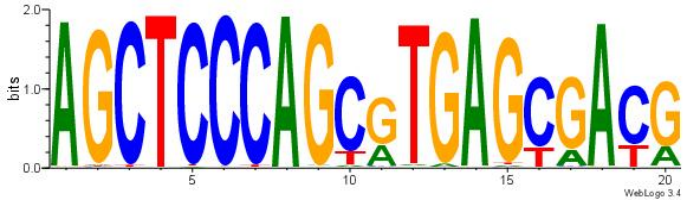

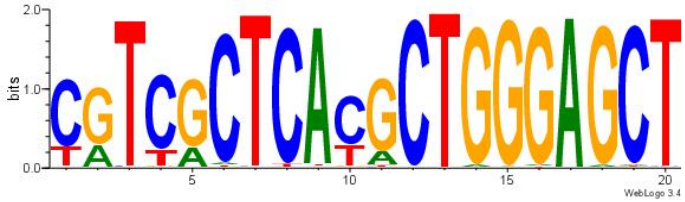

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150174

Alignment:

```
CAGCTACTCKTATACCCTTG
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

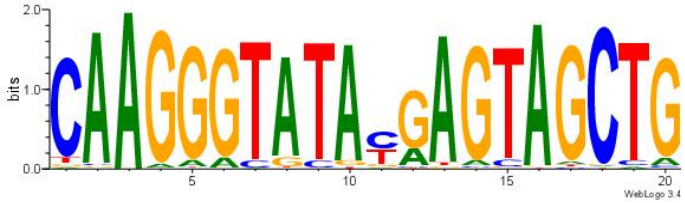

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

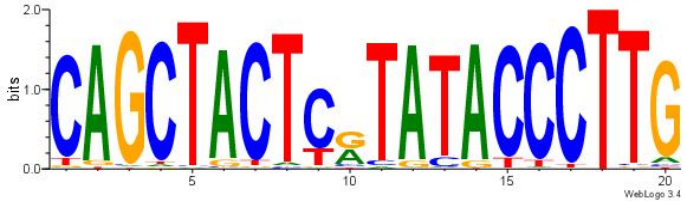

Dataset #: 1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150405

Alignment:

CMTAGYACAGTGCCTGGCAC

TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

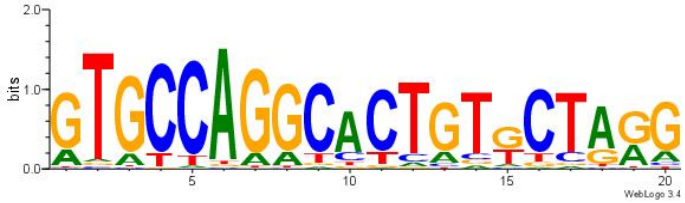

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

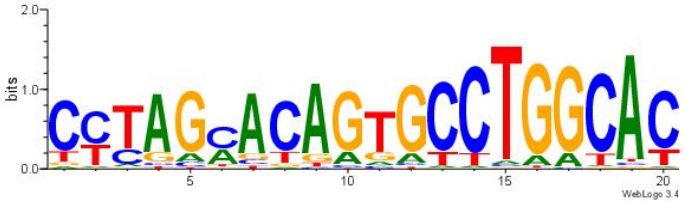

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152153

Alignment:
GTTTAACCATTGAGGGCCAG
GCCAGTCACAAAARGACAMA

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

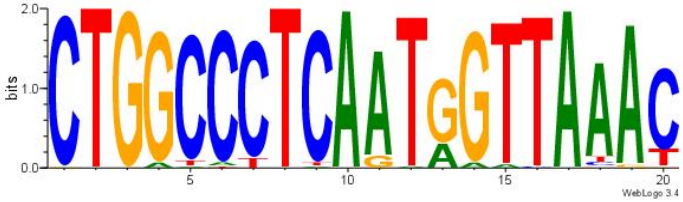

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

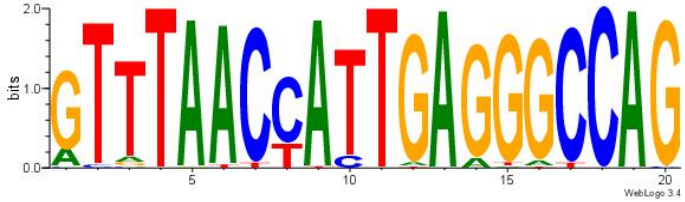

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152328

Alignment:
CTGGGTCCCCCAGCAGTGCC
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

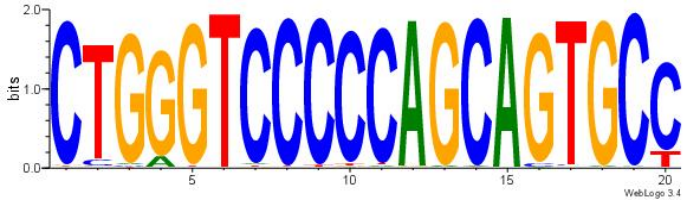

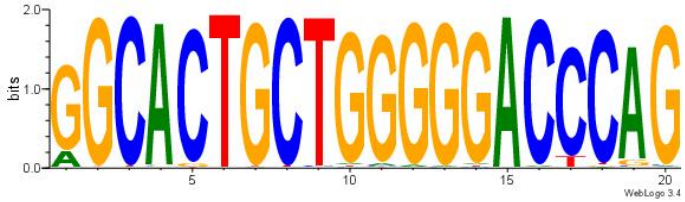

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152496

Alignment:

```
CCGCTGCACTGTGGGAGCCC
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

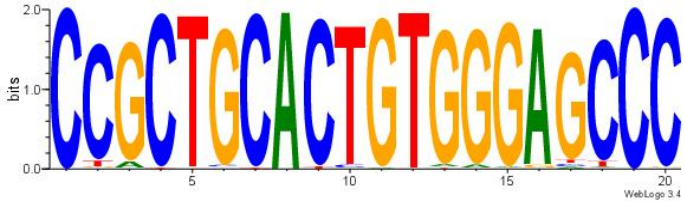

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

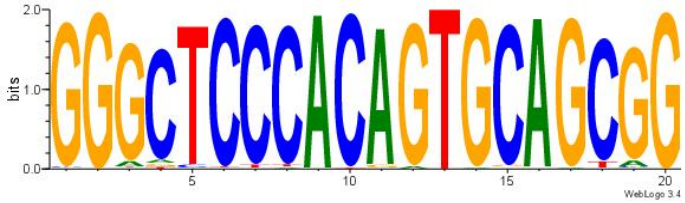

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152568

Alignment:

```
CATTCTGGGGTCTGGAGGAY
TYTGTCMTTTTGTGACTGGC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

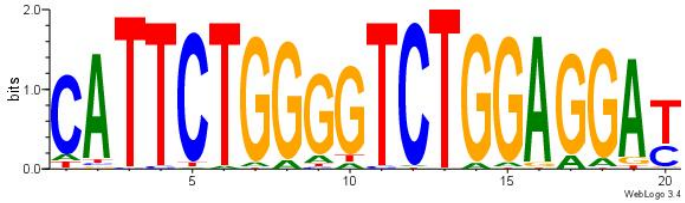

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

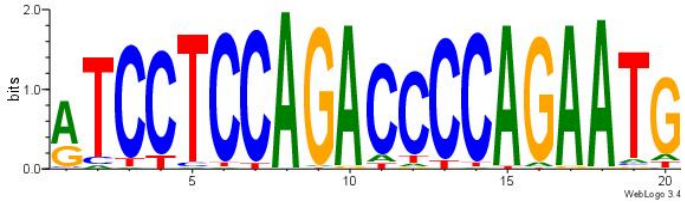

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152651

Alignment:
GTTATTAATTGGCCTAATTT
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

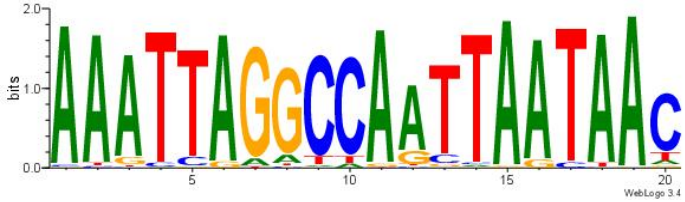

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15304

Alignment:
KKCACCTTGATCTTGGACTT
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

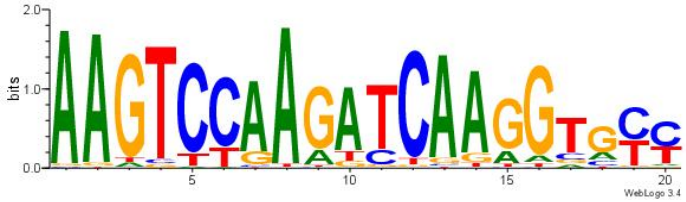

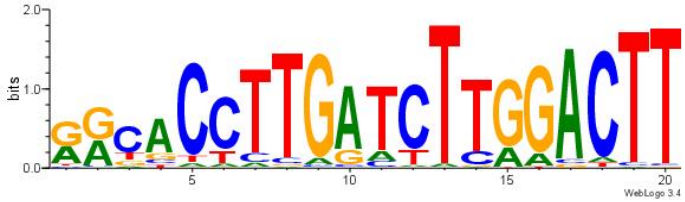

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153578

Alignment:
AWTKKTGGTTKCCAGKGGCT
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

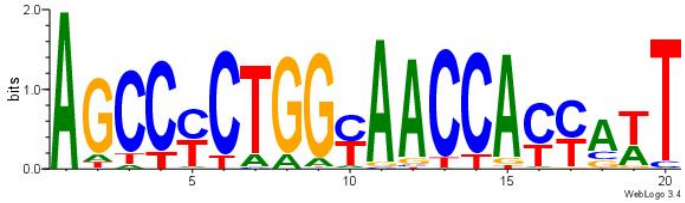

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

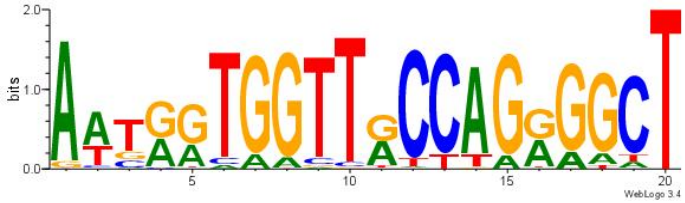

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153625

Alignment:

```
TGGCTTCACCCAGTGGATCC
GCCAGTCACAAAARGACAMA
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

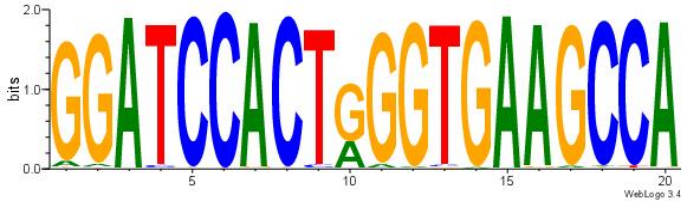

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

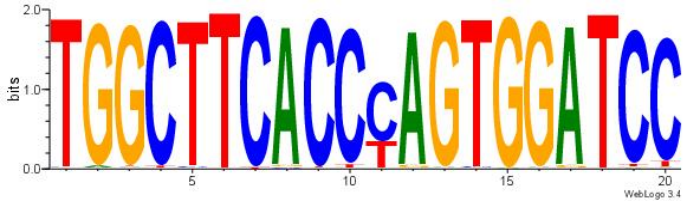

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153981

Alignment:
CGAGCCTCCCCGAYGAGCGC
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

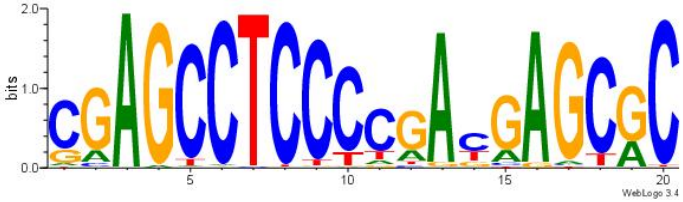

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

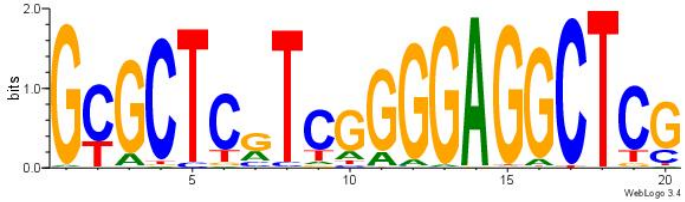

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15401

Alignment:
CAGGTGGTKTTTGGTTACAT
TYTGTCMTTTTGTGACTGGC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

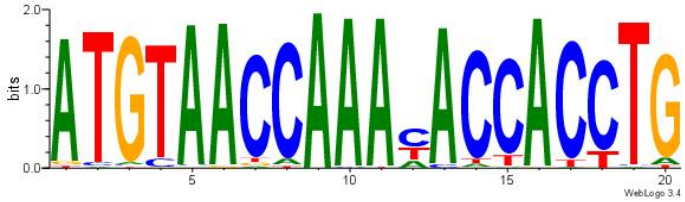

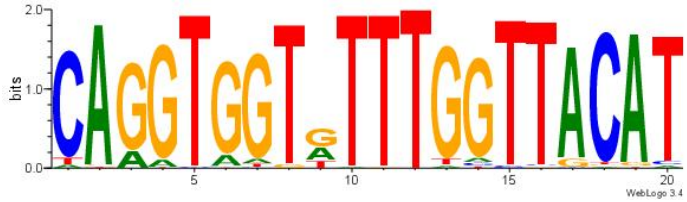

Dataset #: 1 Motif ID: 146 Motif name: Motif 146

Original motif Consensus sequence: CTGTCACCCC

Reverse complement motif Consensus sequence: GGGGTGACAG

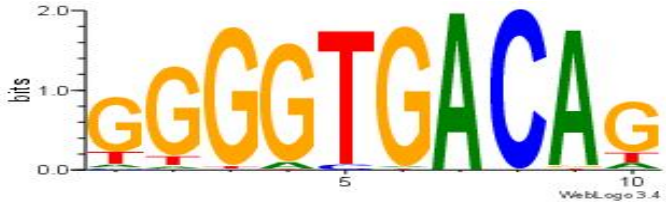

Best Matches for Motif ID 146 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.00304976

Alignment:

```
GGGGTGACAGABGB
----GGGGTGACAG
```

Original motif Consensus sequence: GGGGTGACAGABGB

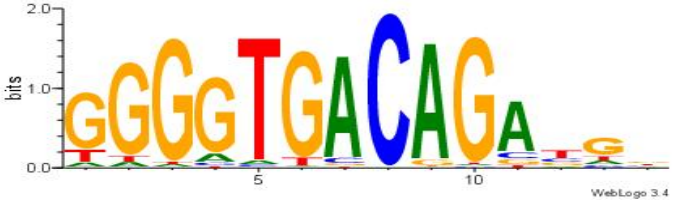

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

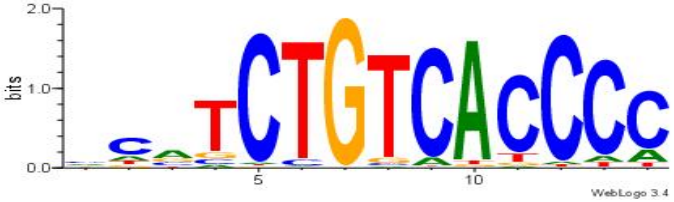

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.021009

Alignment:

```
CTGTCAGCCCAT
CTGTCACCCC--
```

Original motif Consensus sequence: CTGTCAGCCCAT

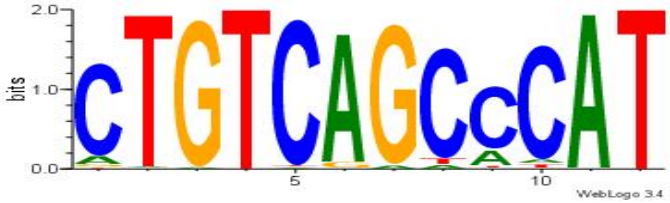

Reverse complement motif Consensus sequence: ATGGGCTGACAG

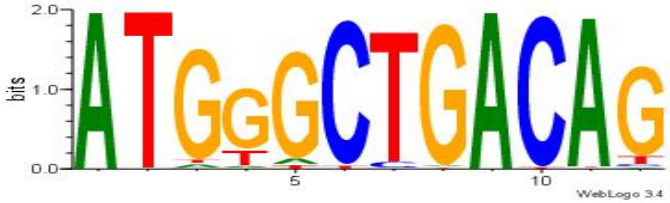

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0415588

Alignment:

```
MGTGTGATGTCTCCCCC
------CTGTCACCCC-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

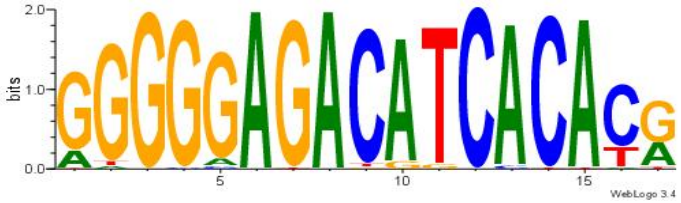

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

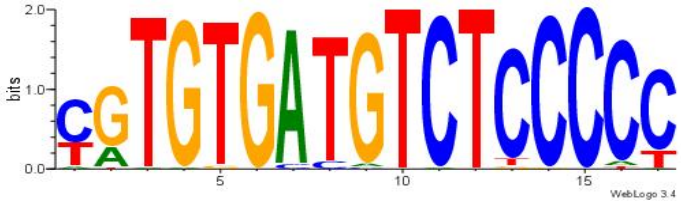

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 10
Similarity score: 0.0448872

Alignment:
ATACAATGGGGGTACAGRC
-------GGGGTGACAG--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

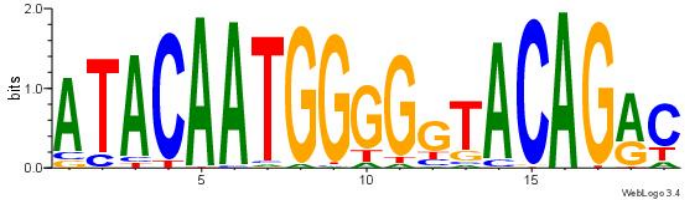

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

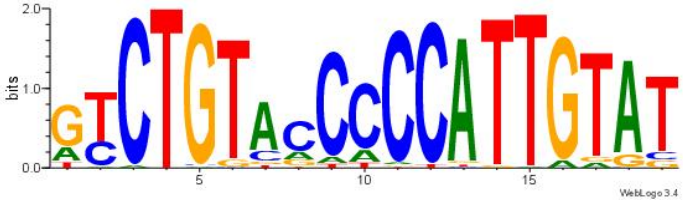

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0451314

Alignment:
TGGGCTGCCAGATG
-GGGGTGACAG---

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

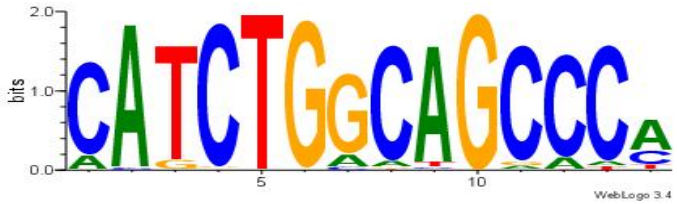

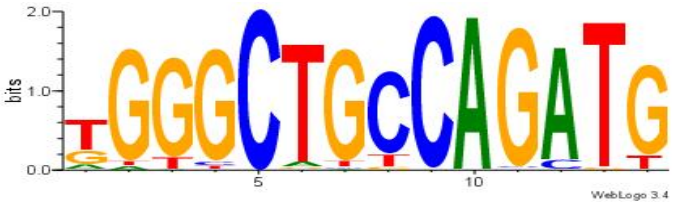

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0472417

Alignment:

```
CGTCCATCACCCC
---CTGTCACCCC
```

Original motif Consensus sequence: CGTCCATCACCCC

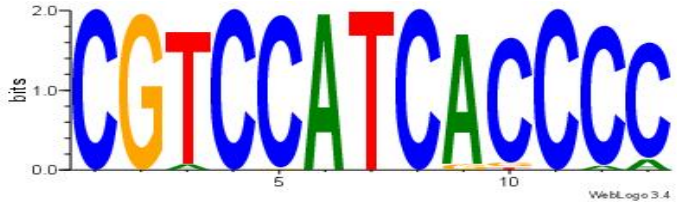

Reverse complement motif Consensus sequence: GGGGTGATGGACG

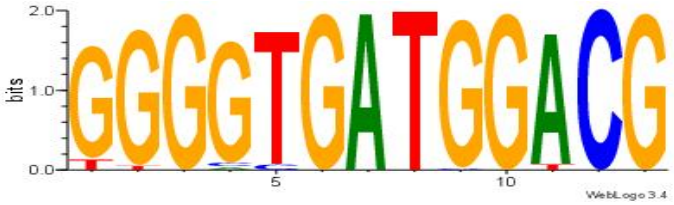

Dataset #:	1
Motif ID:	92

Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0492728

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----GGGGTGACAG-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

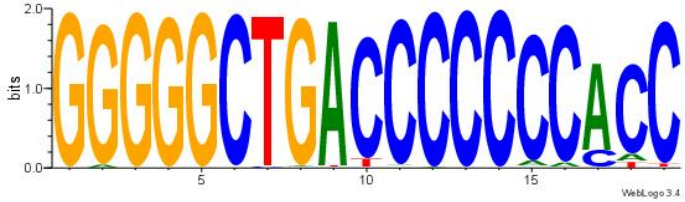

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

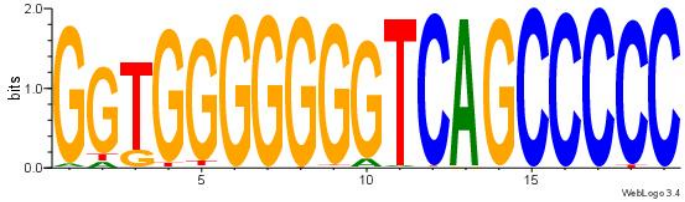

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0496707

Alignment:
MGTCTMKCTCTGTKGCCCAG
-CTGTCACCCC---------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

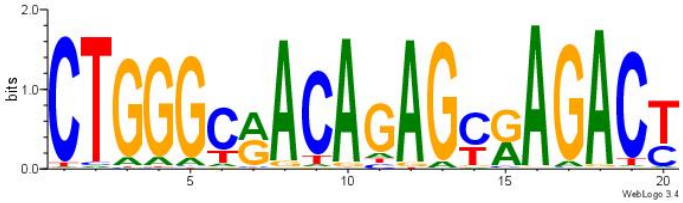

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

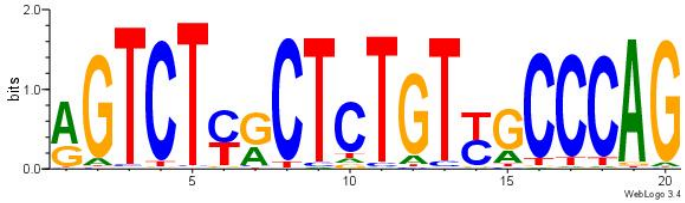

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0554498

Alignment:
GCTGGGATTACAGG
-GGGGTGACAG---

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

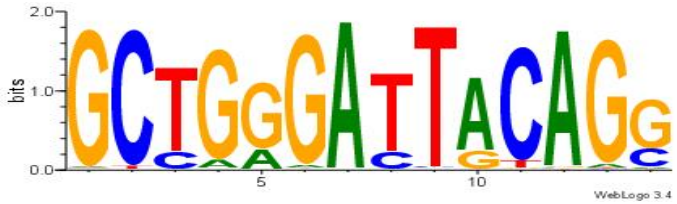

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0593604

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---CTGTCACCCC-------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

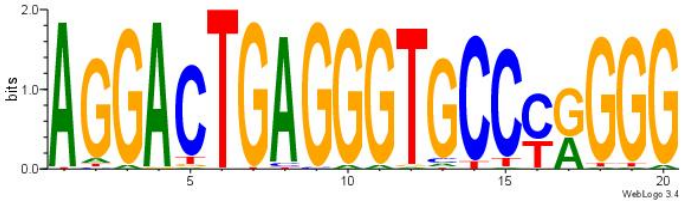

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

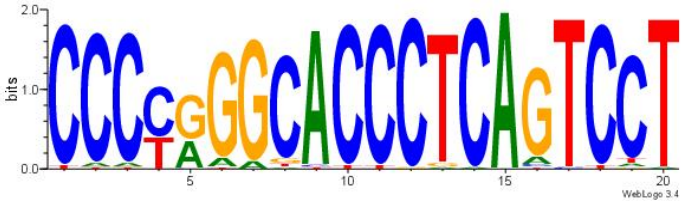

Dataset #:	1

Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.059527

Alignment:

```
GGGGTGAVCAGAT
GGGGTGACAG---
```

Original motif Consensus sequence: GGGGTGAVCAGAT

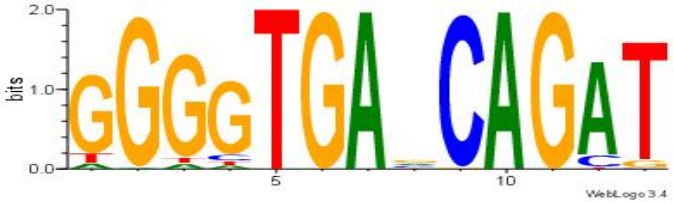

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

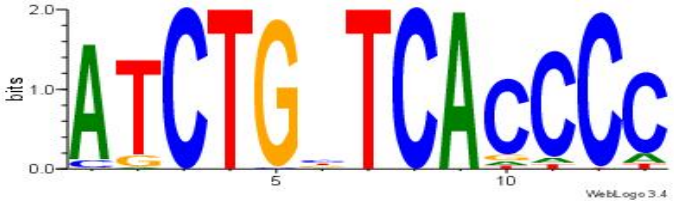

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0643079

Alignment:
GGGAGGTGTCTCCCAGTCAG
-----CTGTCACCCC-----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

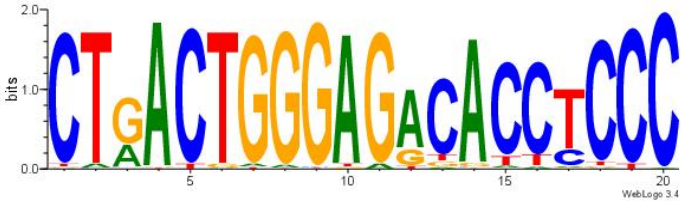

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

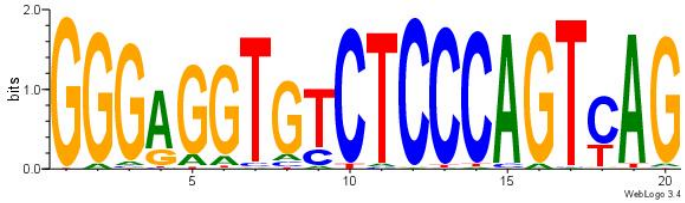

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0657626

Alignment:
ACTGTCTTCCACCTCCACAT
-CTGTCACCCC---------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

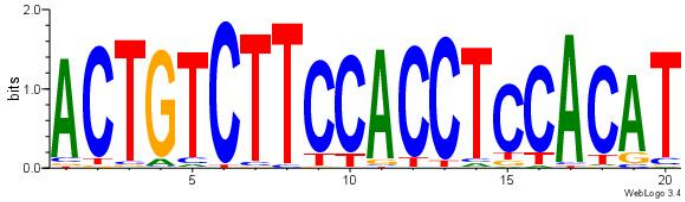

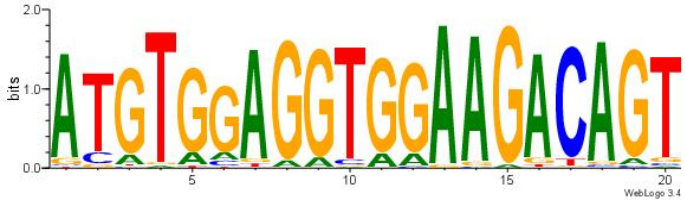

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0673773

Alignment:

```
TTGAGGAGGCAGTCTG
--GGGGTGACAG----
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

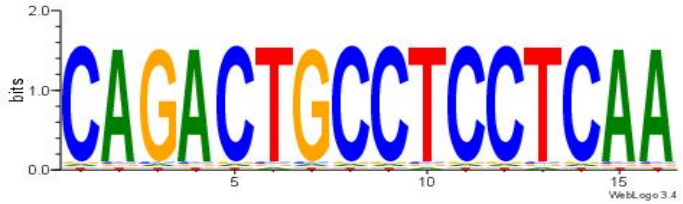

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

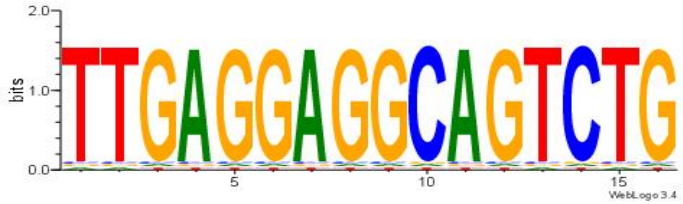

Dataset #:	1

Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0686108

Alignment:

```
CTGYGTCCCCA
CTGTCACCCC-
```

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

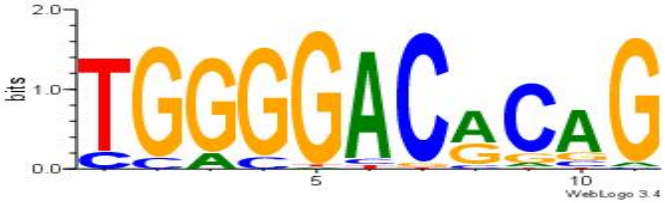

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0701532

Alignment:
GGAGGTGTGGAGGGAGAGGC
--------GGGGTGACAG--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

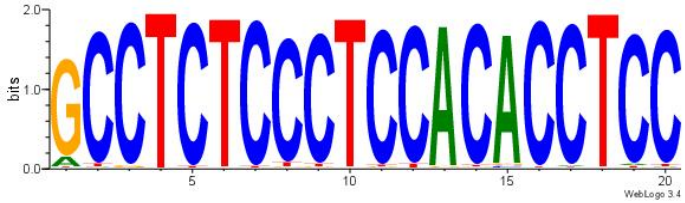

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

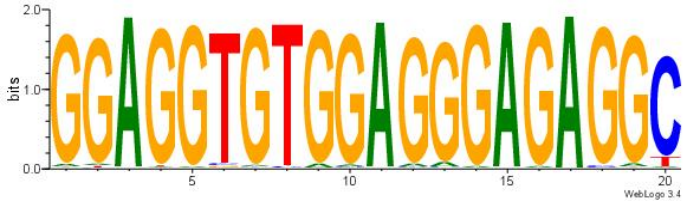

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0702505

Alignment:
GGGAGGAAGGGGACAC
------GGGGTGACAG

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

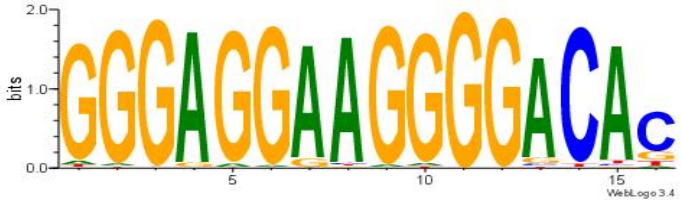

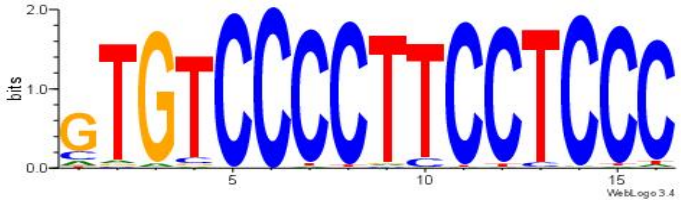

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0708288

Alignment:

```
AAGTTCTKGGKTACATGTGC
------GGGGTGACAG----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

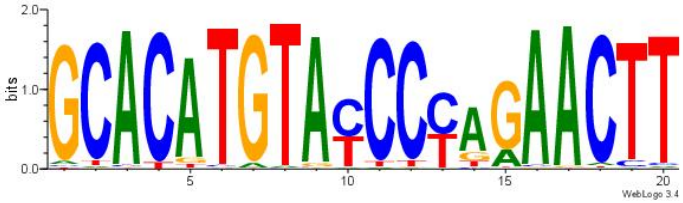

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

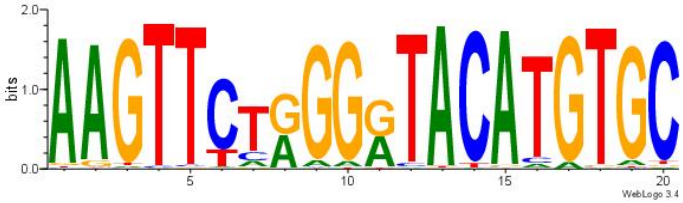

Dataset #:	1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0712331

Alignment:

```
GACATGGAGTCAAAGG
-----GGGGTGACAG-
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

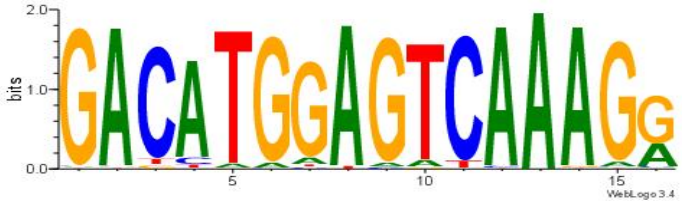

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

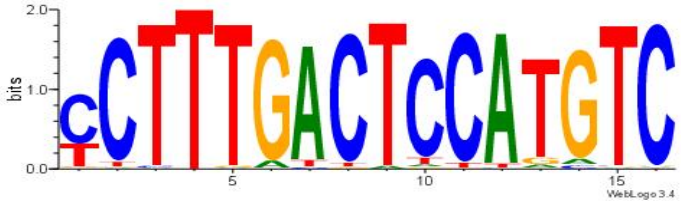

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0722814

Alignment:
GGCACTGCTGGGGGACCCAG
----------GGGGTGACAG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

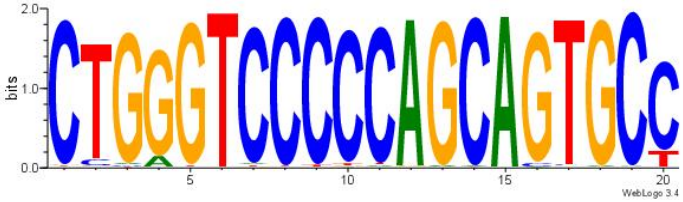

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

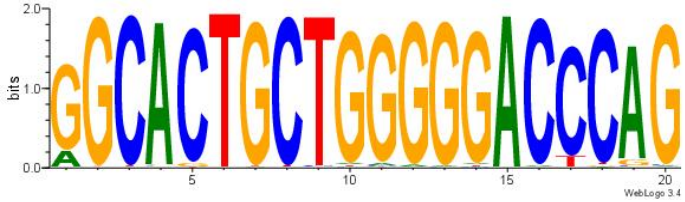

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0743769

Alignment:
GTAACACTCACCGCGARGGT
----CTGTCACCCC------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

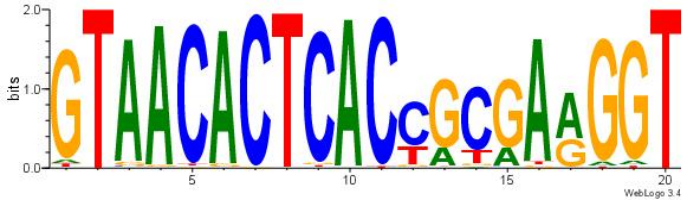

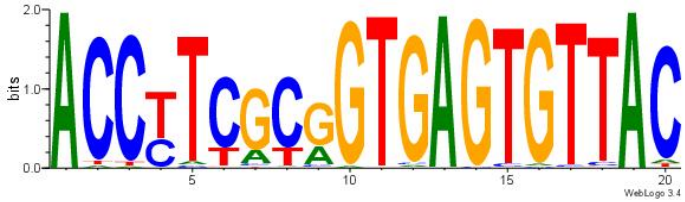

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0744949

Alignment:

```
CTCTTGTTGCCCAG
---CTGTCACCCC-
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

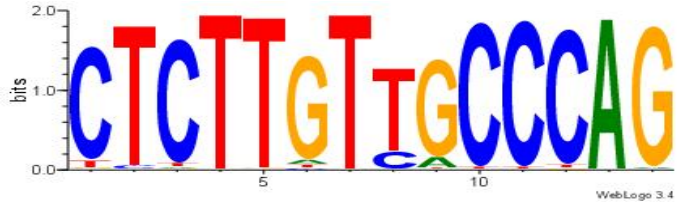

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

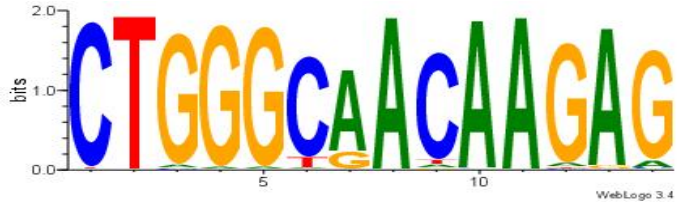

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0761493

Alignment:

```
GCCAATTTCTCCCATTTGGA
----CTGTCACCCC------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

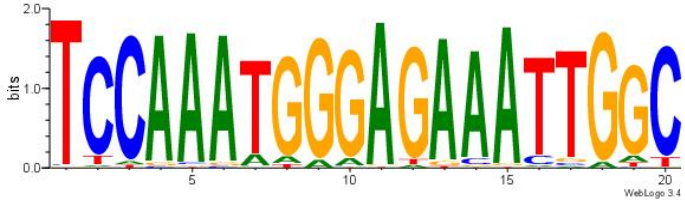

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

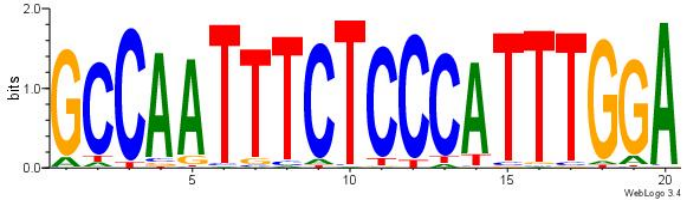

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0761552

Alignment:
ACGTCACTTCCG
CTGTCACCCC--

Original motif Consensus sequence: CGGAAGTGACGT

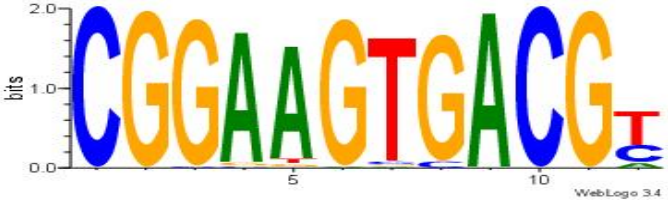

Reverse complement motif Consensus sequence: ACGTCACTTCCG

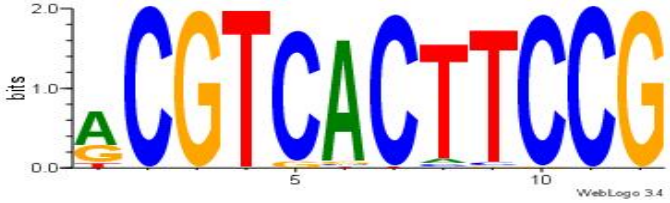

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0771271

Alignment:
ATGTAACCAAAYACCACCTG
CTGTCACCCC----------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

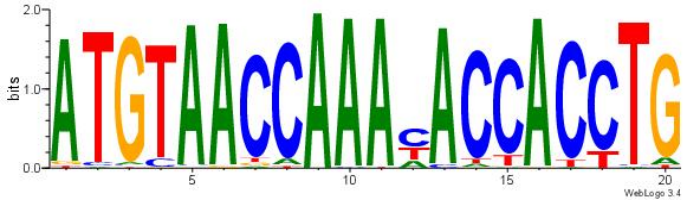

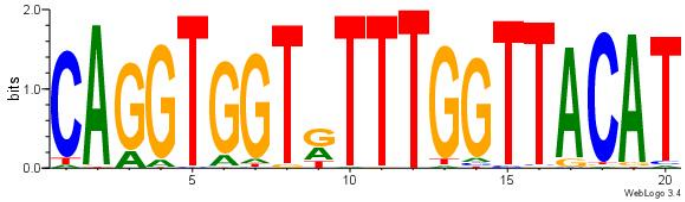

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0771924

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----GGGGTGACAG-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

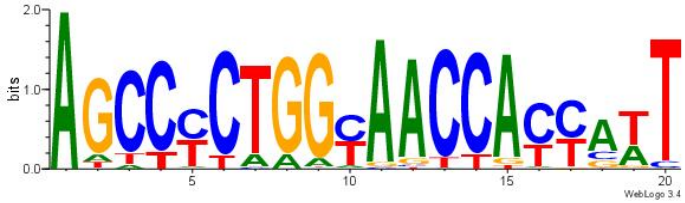

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

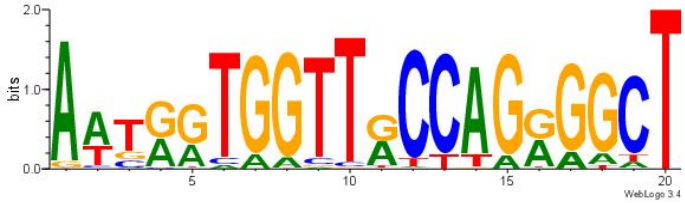

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0774486

Alignment:

```
AAGACCTTCCAGTGGGACAA
----------GGGGTGACAG
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

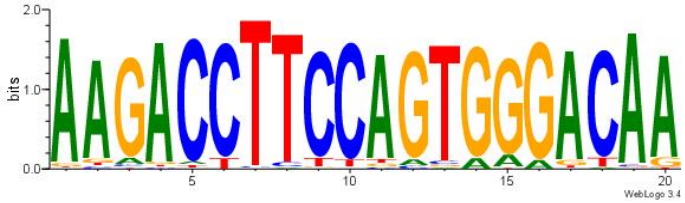

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

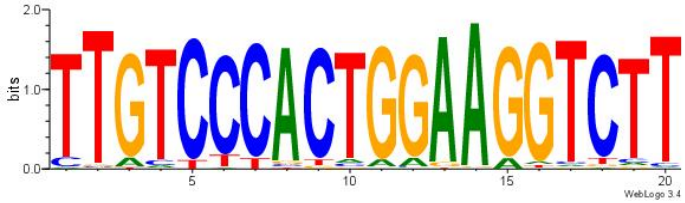

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0775172

Alignment:
CATCTGGAGCCCCA
---CTGTCACCCC-

Original motif Consensus sequence: CATCTGGAGCCCCA

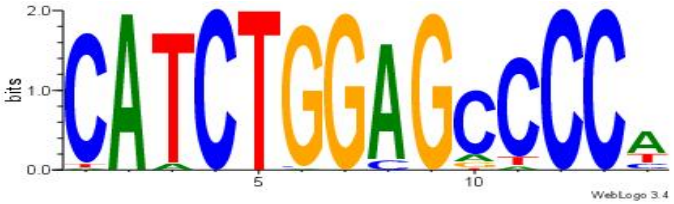

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

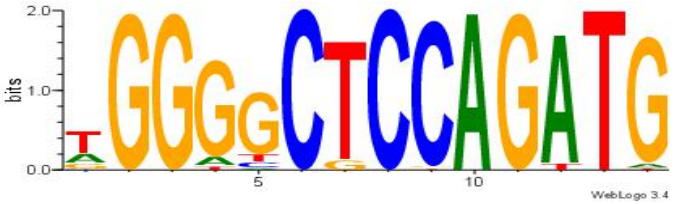

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0779385

Alignment:
CATTTGGGAGCCCATTGA
---CTGTCACCCC-----

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

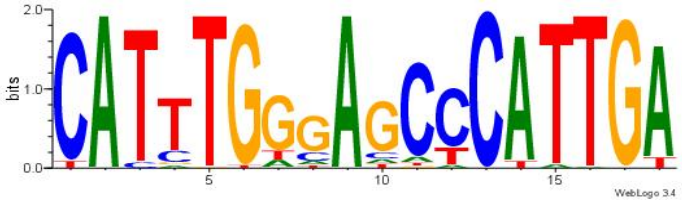

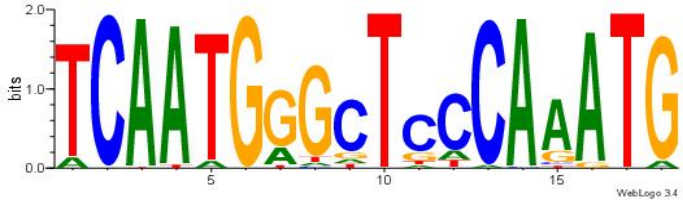

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0782065

Alignment:

```
AGATGCCAGCCAGAGCTCT
--CTGTCACCCC-------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

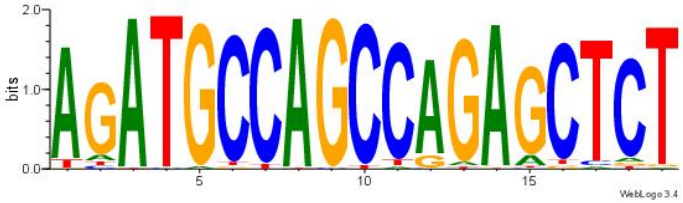

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

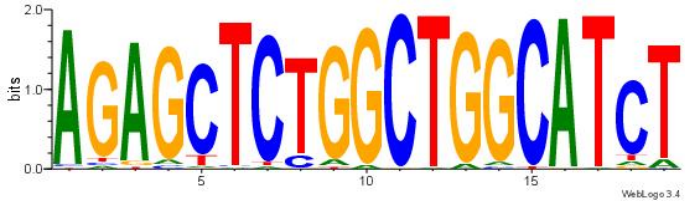

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0793042

Alignment:

```
CAAGTTGACACATAAAATTA
-GGGGTGACAG---------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

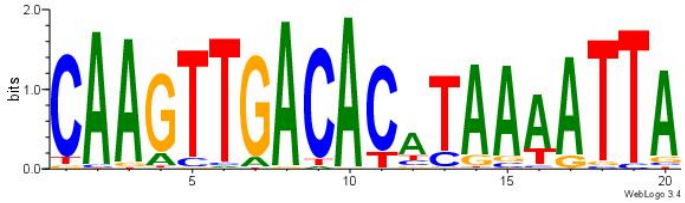

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

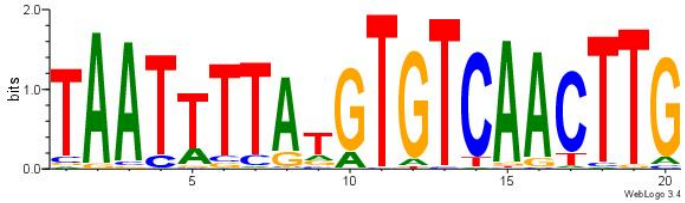

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0793516

Alignment:
CAGAAATCACCCGTCTT
---CTGTCACCCC----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

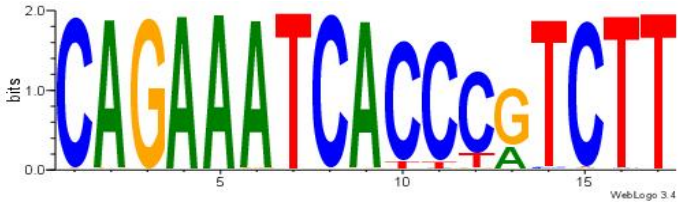

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

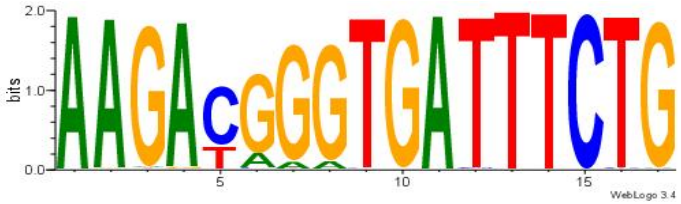

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 10
Similarity score: 0.0801282

Alignment:
AAGTCTCCCAATTACAACT
CTGTCACCCC---------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

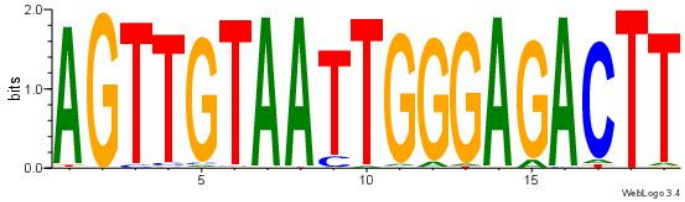

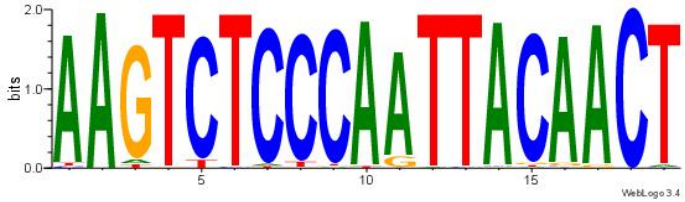

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0801455

Alignment:

```
GGGRSCACAGGAGCD
GGGGTGACAG-----
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

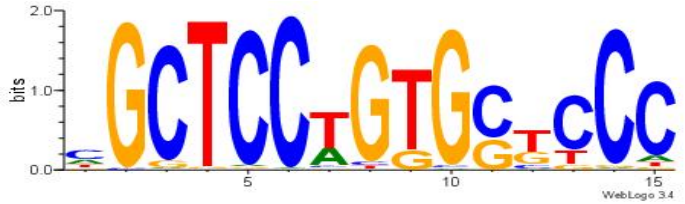

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

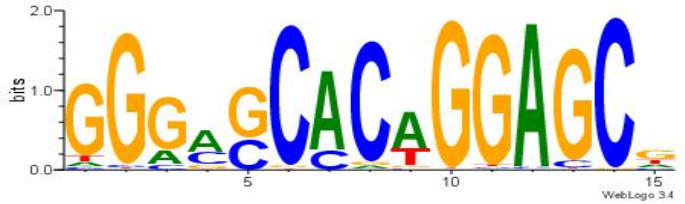

Dataset #: 1

Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0809381

Alignment:

```
GCTCACTGCAASCTC
-----CTGTCACCCC
```

Original motif Consensus sequence: GCTCACTGCAASCTC

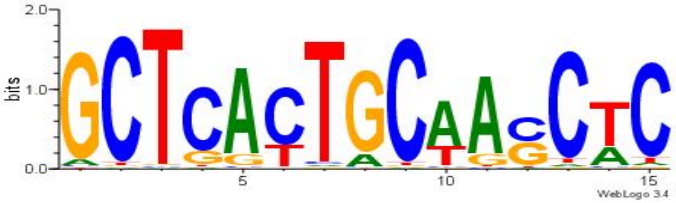

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

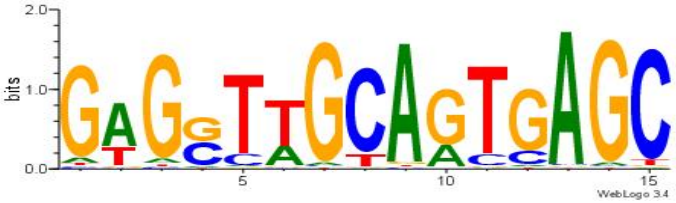

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0824192

Alignment:
GCTGTGTGACCTTGGGCAAG
--------GGGGTGACAG--

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

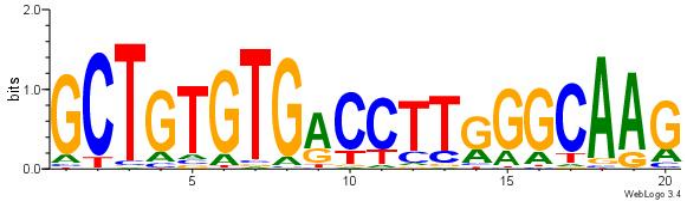

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

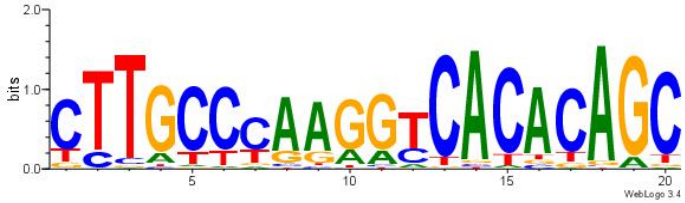

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0827219

Alignment:
CCTTGGCCAGCCCAGAAAG
---CTGTCACCCC------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

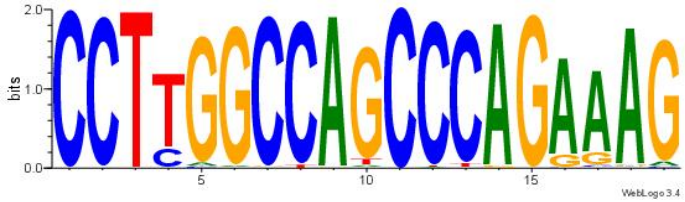

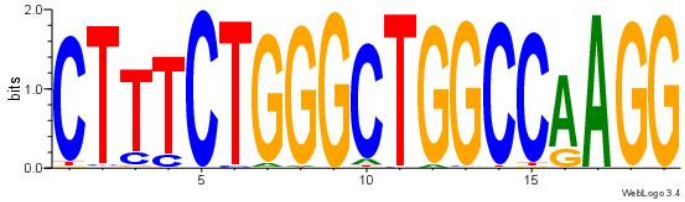

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.083998

Alignment:

```
GGATCCACTGGGTGAAGCCA
--GGGGTGACAG--------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

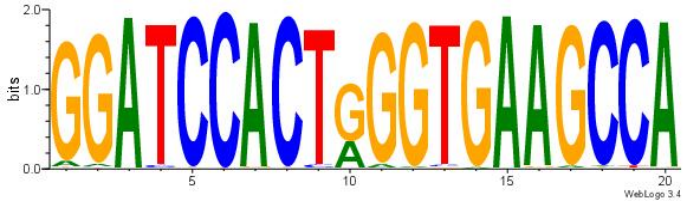

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

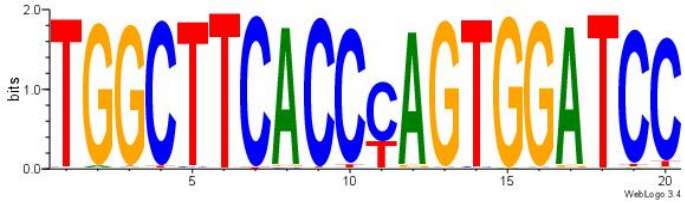

Dataset #:	1

Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0840712

Alignment:

```
GGGAGGGATATATTAGC
-GGGGTGACAG------
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

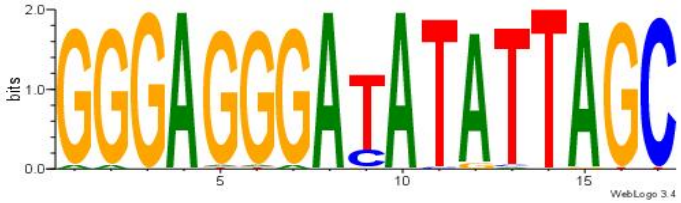

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

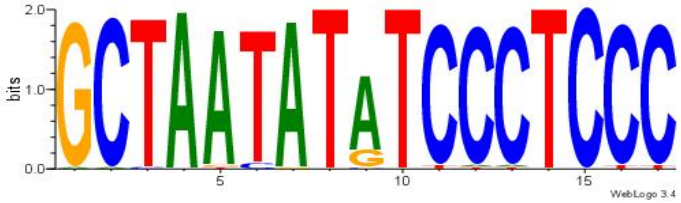

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0843404

Alignment:
ATGGTGAAACCC
--GGGGTGACAG

Original motif Consensus sequence: ATGGTGAAACCC

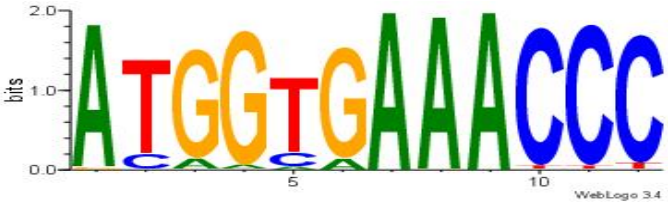

Reverse complement motif Consensus sequence: GGGTTTCACCAT

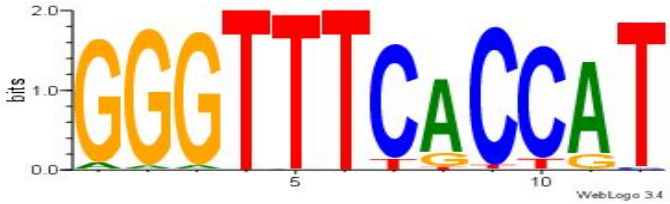

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 10
Similarity score: 0.084587

Alignment:
CGAGCCTCCCCGAYGAGCGC
-CTGTCACCCC---------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

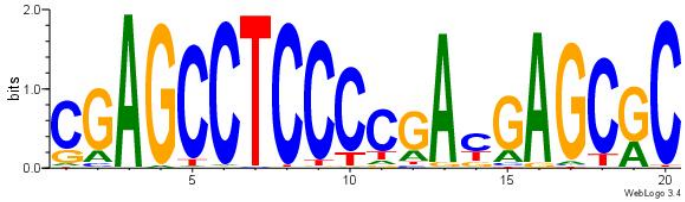

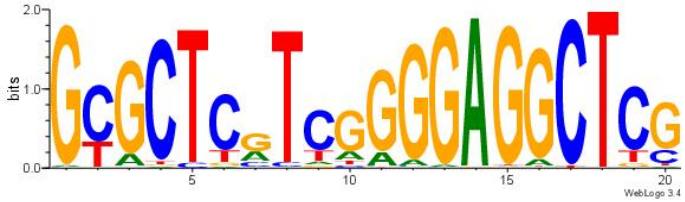

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0847526

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-GGGGTGACAG---------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

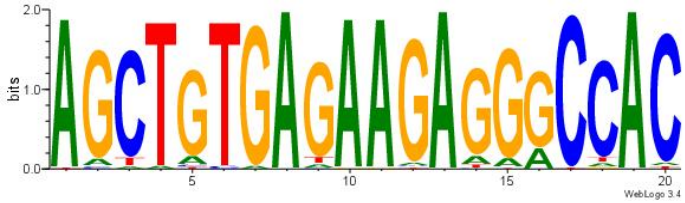

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

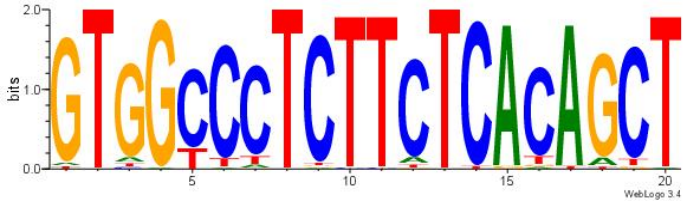

Dataset #:	1

Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0848598

Alignment:

```
AGGTATTTCTCCCACC
----CTGTCACCCC--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

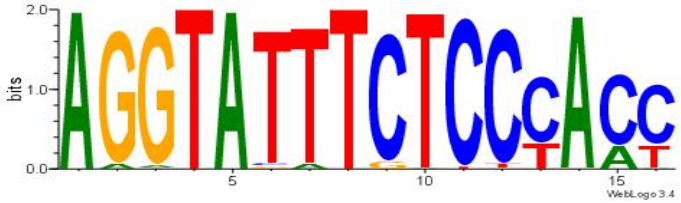

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

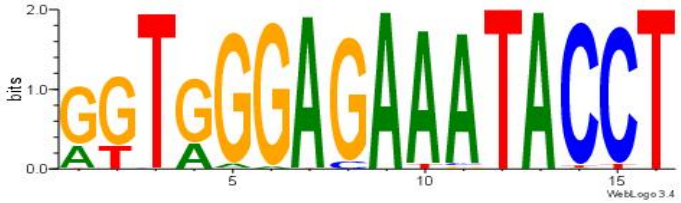

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0849406

Alignment:
AGTTCCGGGTGGGCGTGGG
----GGGGTGACAG-----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

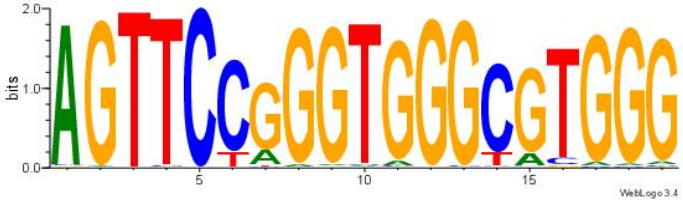

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

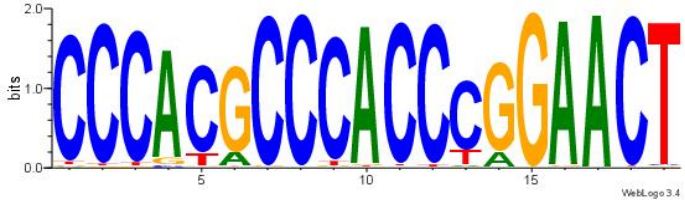

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0851918

Alignment:
GTGGGTGCAGTGCA
GGGGTGACAG----

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

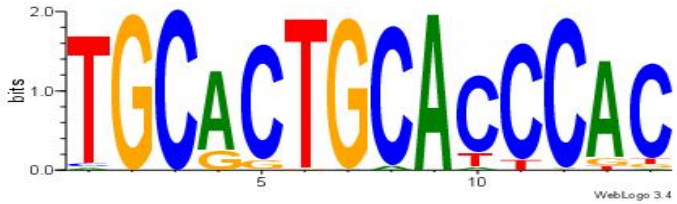

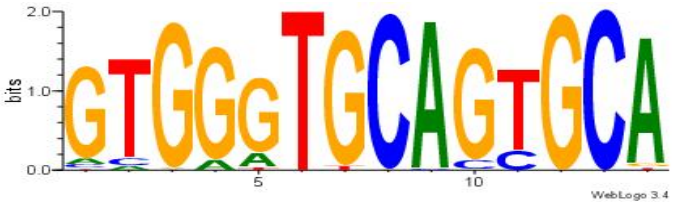

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0851919

Alignment:

```
ATCTCASAAATCACCACTA
-------CTGTCACCCC--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

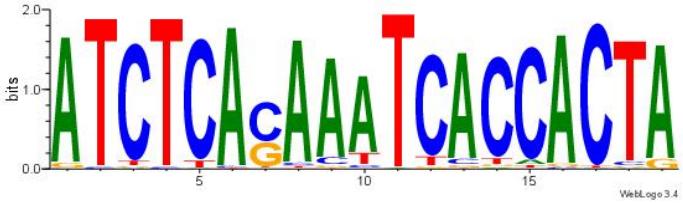

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

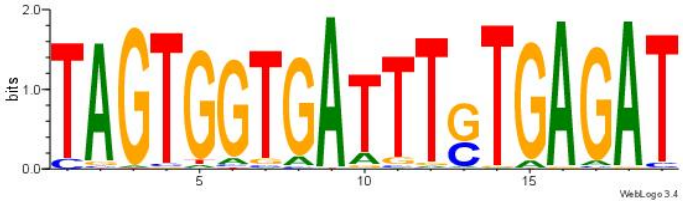

Dataset #: 1

Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0854979

Alignment:

```
GTGGGTGCGCGCA
--GGGGTGACAG-
```

Original motif Consensus sequence: GTGGGTGCGCGCA

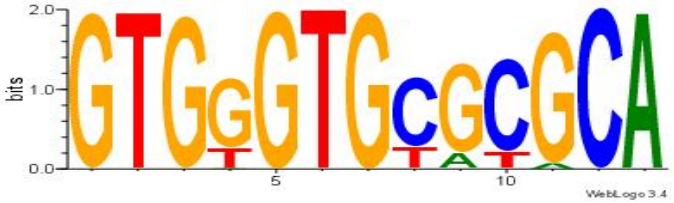

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

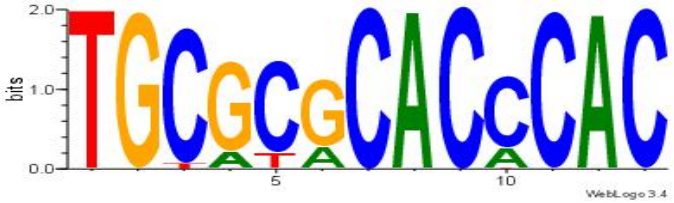

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0861377

Alignment:
TCGTTCACTCAGTGC
-CTGTCACCCC----

Original motif Consensus sequence: GCACTGAGTGAACGA

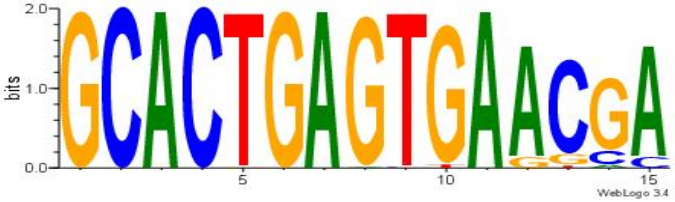

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

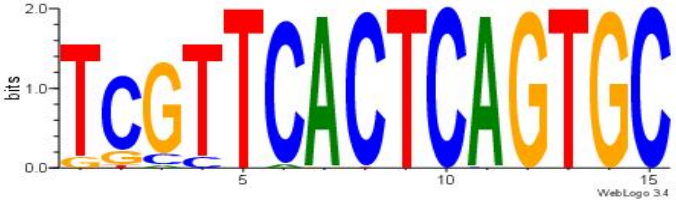

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0861702

Alignment:
ATGGCCTATGACYGSTTTG
-----CTGTCACCCC----

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

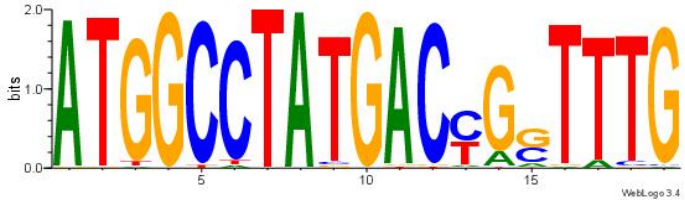

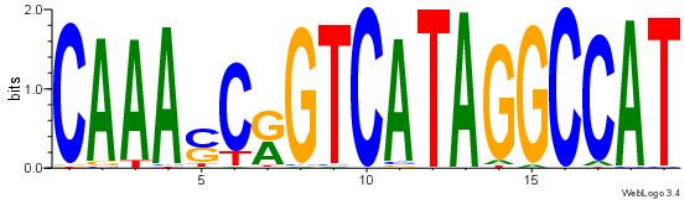

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0866184

Alignment:

```
GACTGGCAGGCAGCTCCACC
-------GGGGTGACAG---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

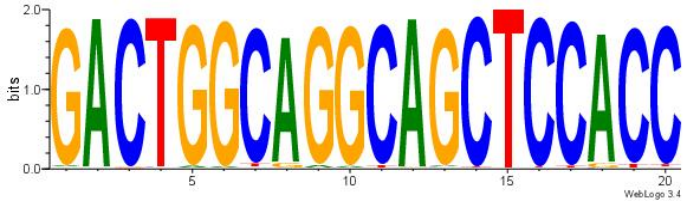

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

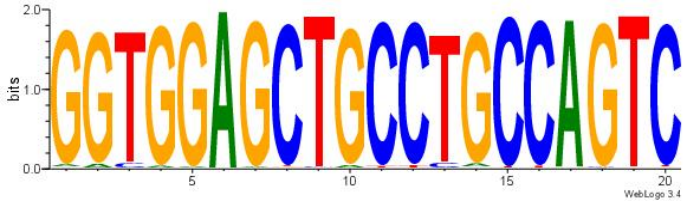

Dataset #: 1 Motif ID: 147 Motif name: Motif 147

Original motif Consensus sequence: CTGGGCACCATTGA

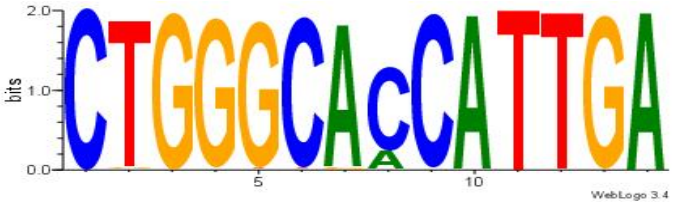

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

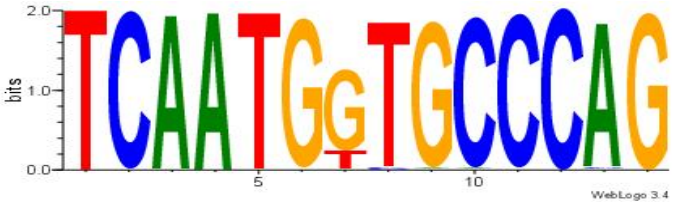

Best Matches for Motif ID 147 (Highest to Lowest)

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0836978

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
------TCAATGGTGCCCAG
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

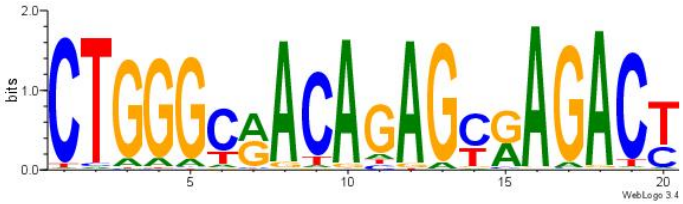

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

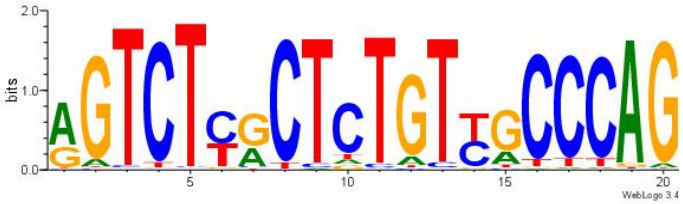

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.088413

Alignment:

```
GTTTAACCATTGAGGGCCAG
------TCAATGGTGCCCAG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

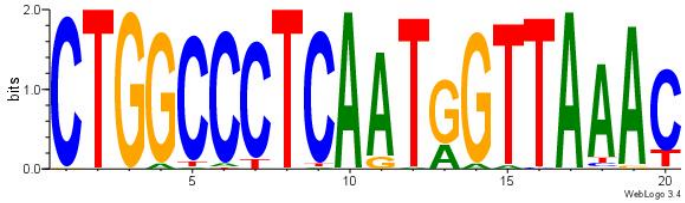

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

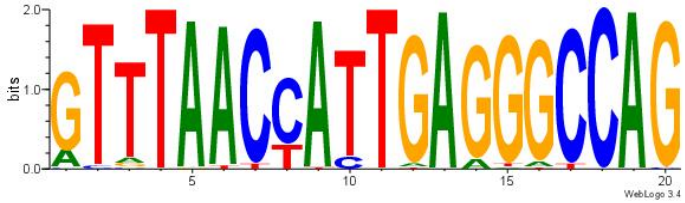

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0903886

Alignment:
CTCTTGTTGCCCAG
TCAATGGTGCCCAG

Original motif Consensus sequence: CTCTTGTTGCCCAG

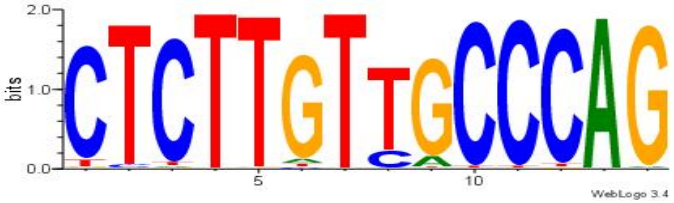

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

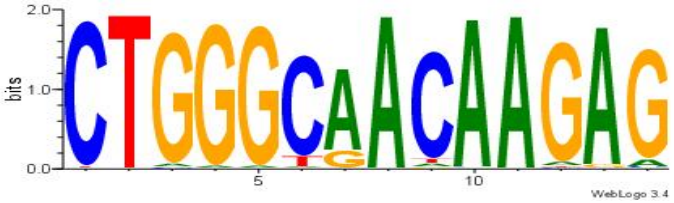

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0918241

Alignment:
CACCAGACTCAGGAGCCCAG
------TCAATGGTGCCCAG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

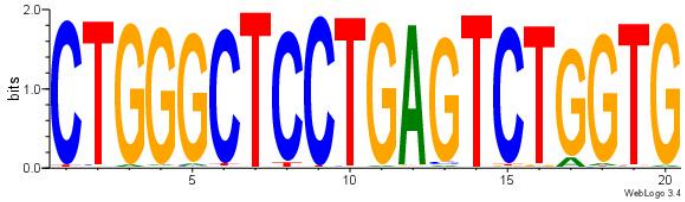

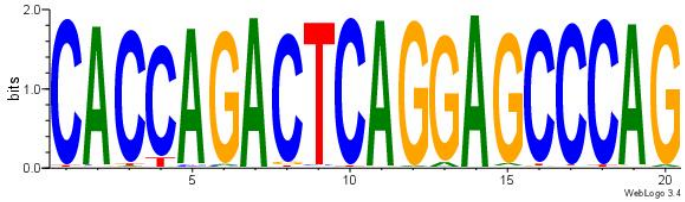

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0919503

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-----TCAATGGTGCCCAG-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

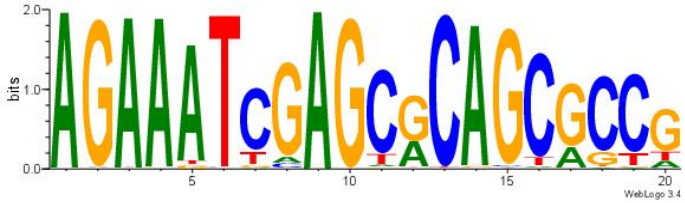

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

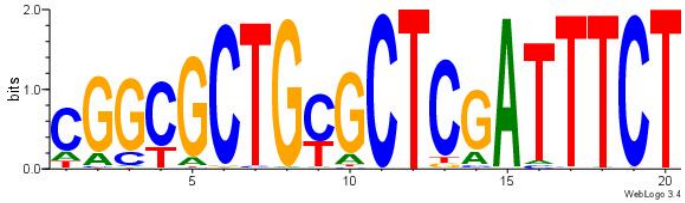

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0936328

Alignment:

```
AGGACTGAGGGTGCCYRGGG
----TCAATGGTGCCCAG--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

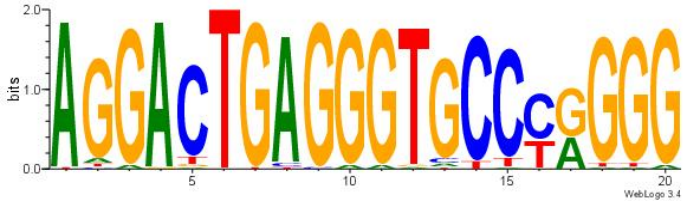

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

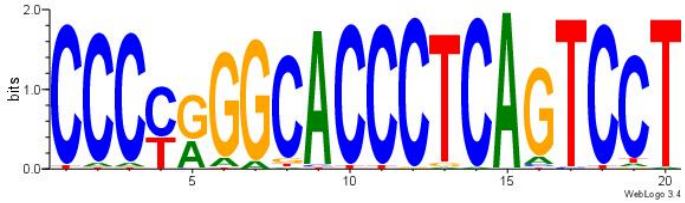

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.0975183

Alignment:
AGCCYCTGGYAACCAYYAWT
-----CTGGGCACCATTGA-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

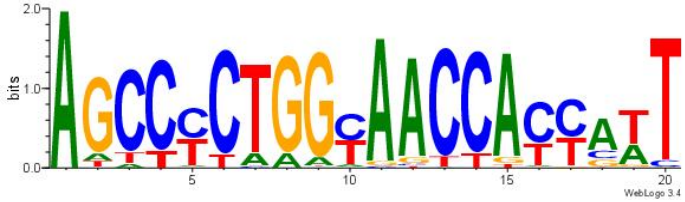

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

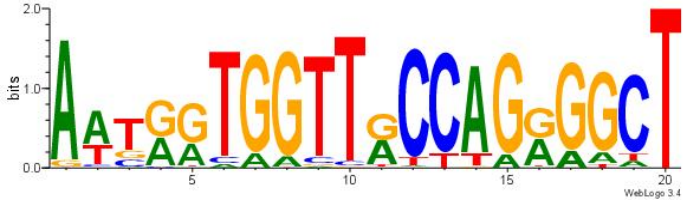

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0989966

Alignment:
CATTTGGGAGCCCATTGA
----CTGGGCACCATTGA

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence:
TCAATGGGCTCCCAAATG

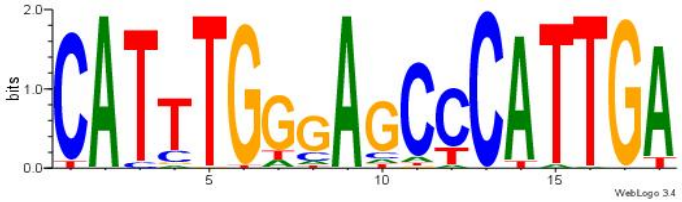

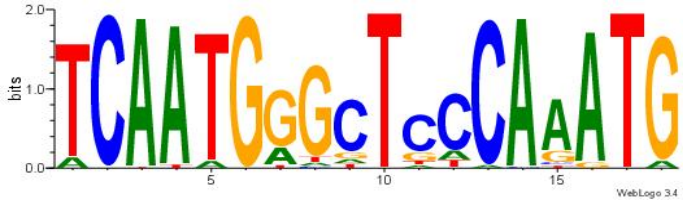

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0991537

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
-----TCAATGGTGCCCAG-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

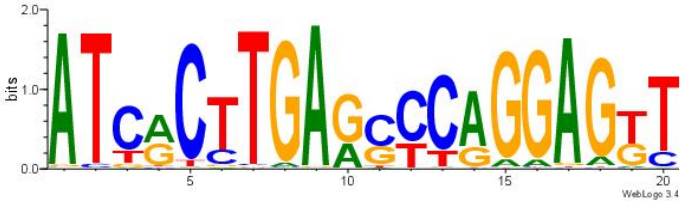

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

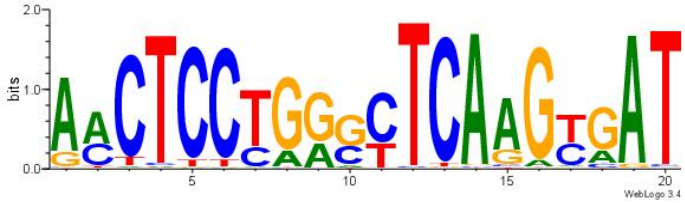

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0999616

Alignment:

```
GCTGGCCCKGGTGCTAAGC
----TCAATGGTGCCCAG-
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

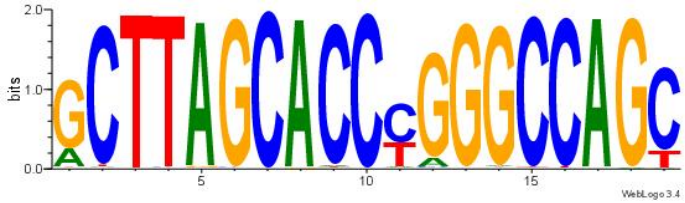

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

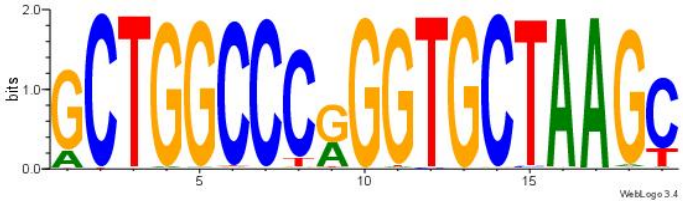

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.105138

Alignment:
TCKMGCCACTGCACTCCAGC
-----TCAATGGTGCCCAG-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

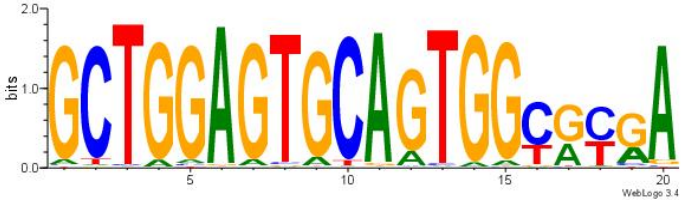

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

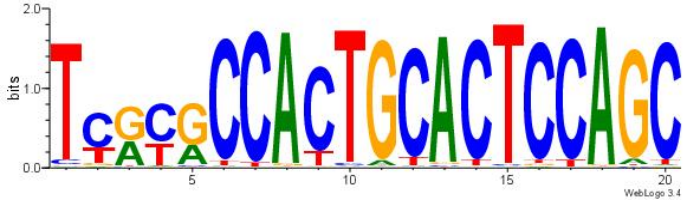

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.106931

Alignment:
TAMGACCTCAGGTCCTCAG
-----TCAATGGTGCCCAG

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

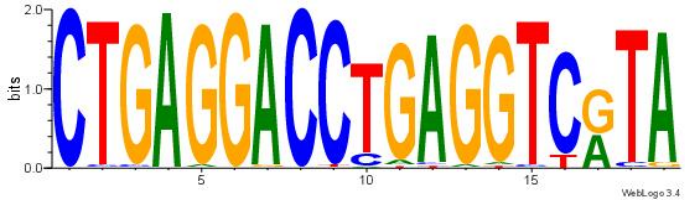

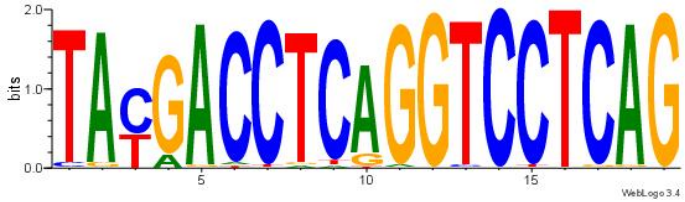

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.107836

Alignment:

```
TCCAAATGGGAGAAATTGGC
-----CTGGGCACCATTGA-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

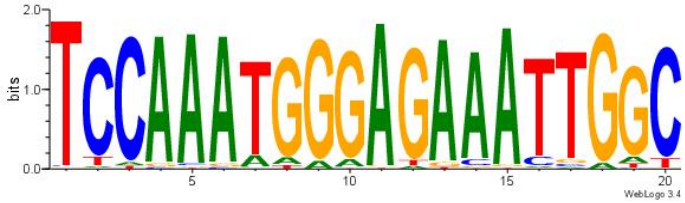

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

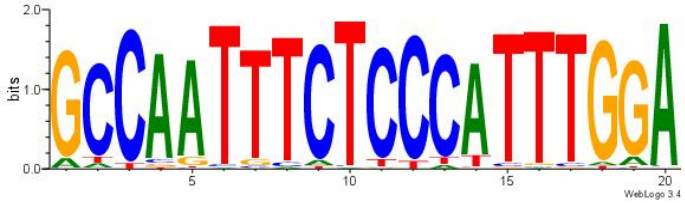

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109903

Alignment:

```
GGCACTGCTGGGGGACCCAG
------TCAATGGTGCCCAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

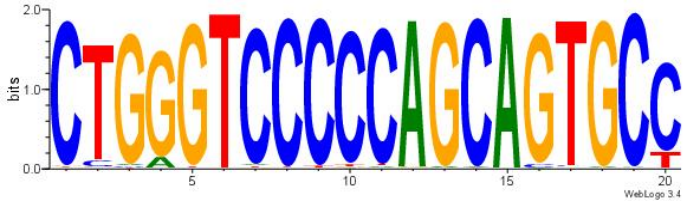

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

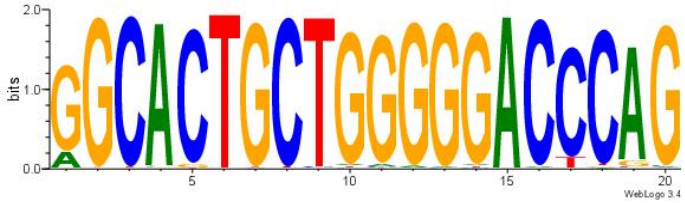

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.110352

Alignment:
CCTTGGCCAGCCCAGAAAG
--CTGGGCACCATTGA---

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

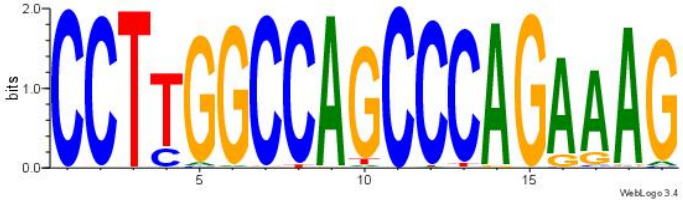

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

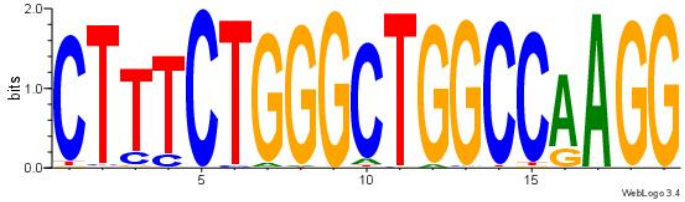

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.111365

Alignment:
ACTTTGGACTGTGGACTTTT
-CTGGGCACCATTGA-----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

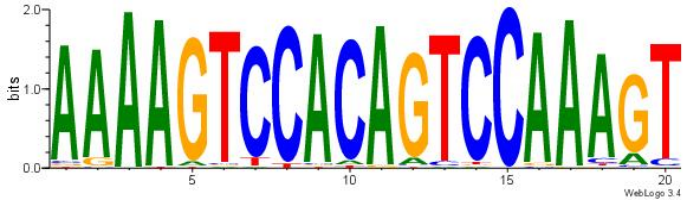

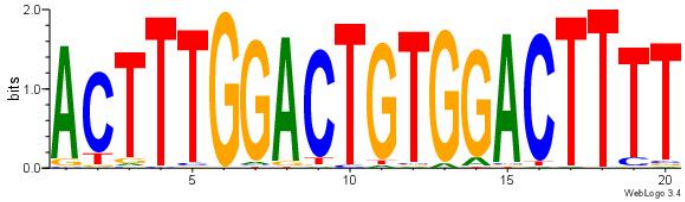

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.111752

Alignment:

```
AATCAACCCTGGYRATCAAT
--TCAATGGTGCCCAG----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

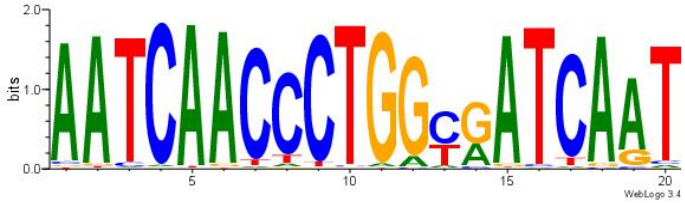

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

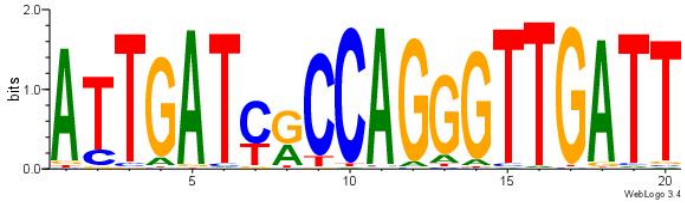

Dataset #: 1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.112043

Alignment:

```
TCTCTGAGCCTCAGTT
TCAATGGTGCCCAG--
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

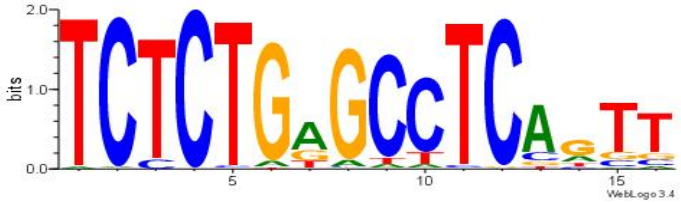

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

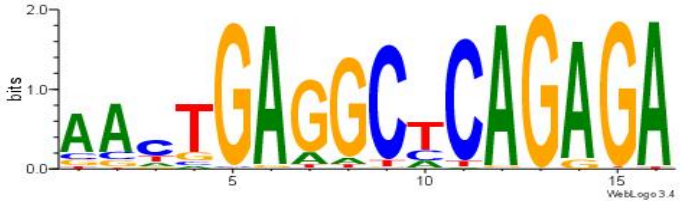

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.112245

Alignment:
TTTGGTGCACCCATCA
--CTGGGCACCATTGA

Original motif Consensus sequence: TGATGGGTGCACCAAA

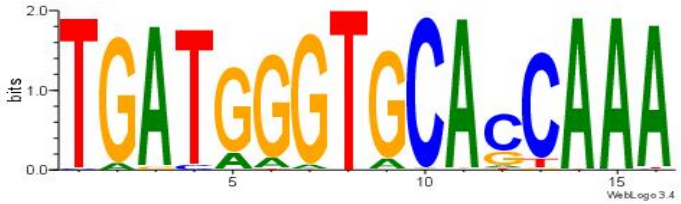

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

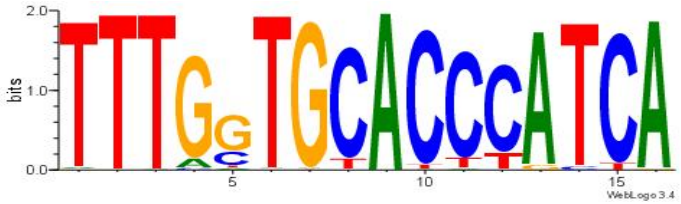

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.11376

Alignment:
CCCYAATACTGCGCTTTTC
--TCAATGGTGCCCAG---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

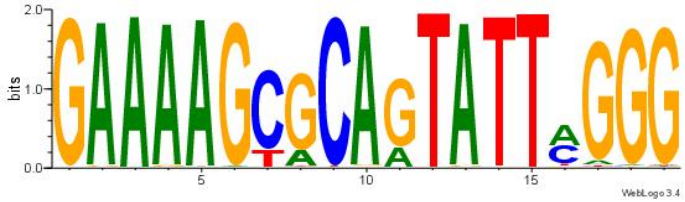

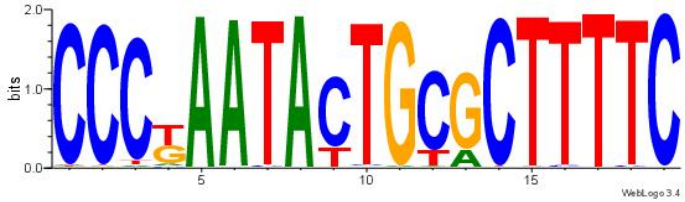

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.116796

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-----CTGGGCACCATTGA-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

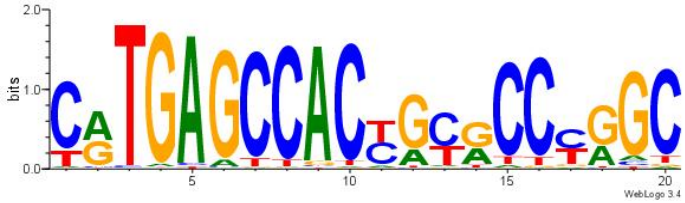

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

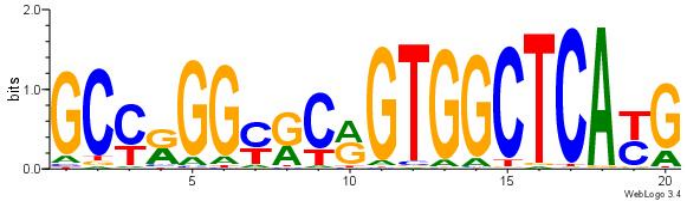

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.117293

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-CTGGGCACCATTGA-----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

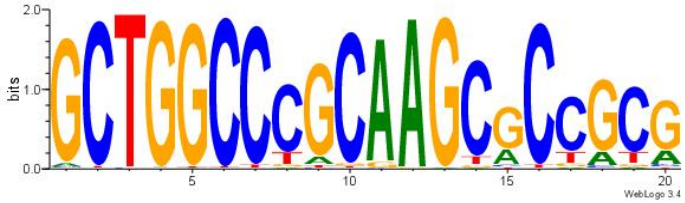

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

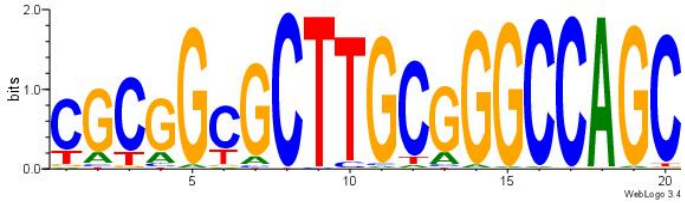

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.117399

Alignment:
AACCCTATTGTGAACTGYG
---TCAATGGTGCCCAG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

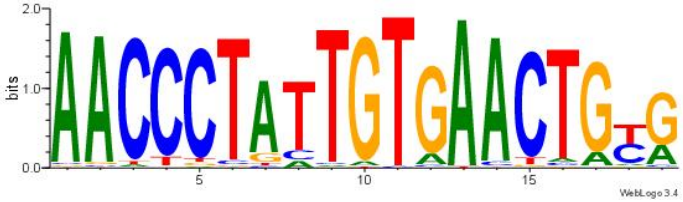

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

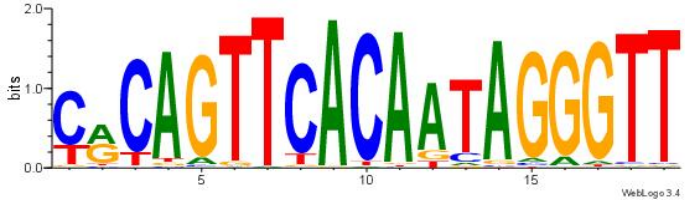

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.117464

Alignment:
GGGAGGTGTCTCCCAGTCAG
--TCAATGGTGCCCAG----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

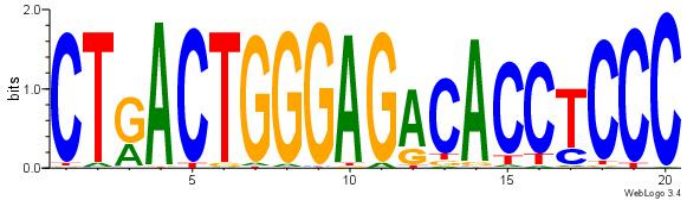

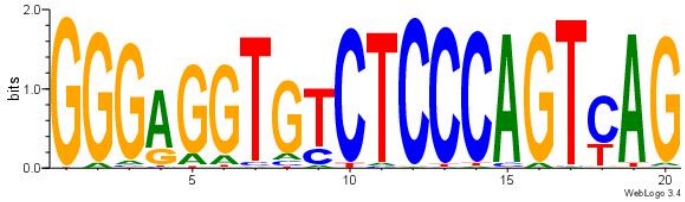

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.118574

Alignment:

```
ATTAGCYRGGCRTGGTGGC
-----CTGGGCACCATTGA
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

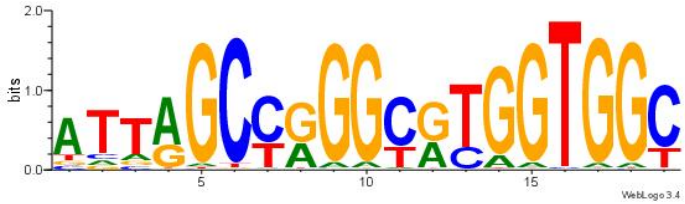

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

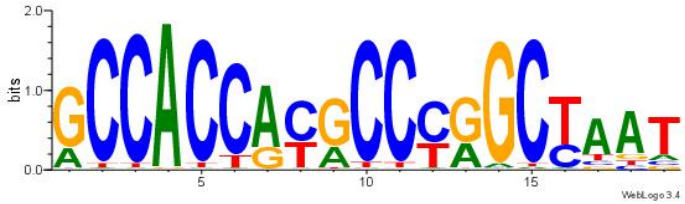

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.119562

Alignment:

```
AAGTTCTKGGKTACATGTGC
-----CTGGGCACCATTGA-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

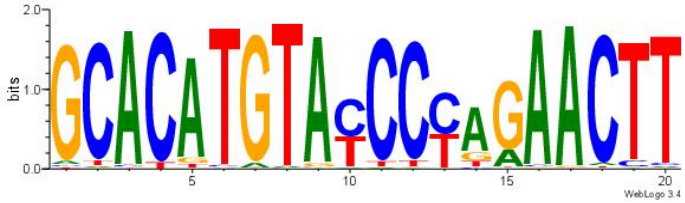

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

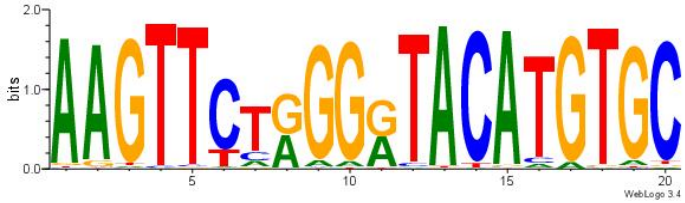

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.119756

Alignment:
CTTGCCCAAGGTCACACAGC
-----TCAATGGTGCCCAG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

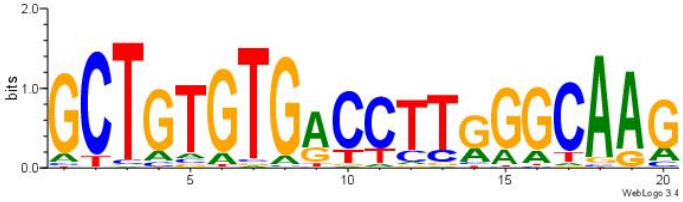

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

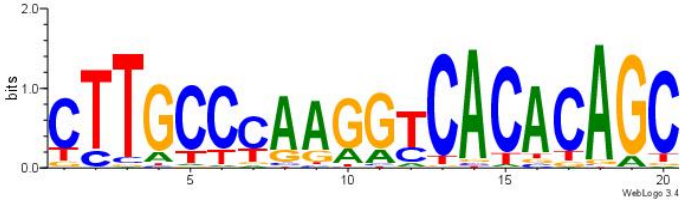

Dataset #: 1
Motif ID: 116
Motif name: Motif 116
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.120059

Alignment:
GCAGAGGCGCTCCT
TCAATGGTGCCCAG

Original motif Consensus sequence: GCAGAGGCGCTCCT

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

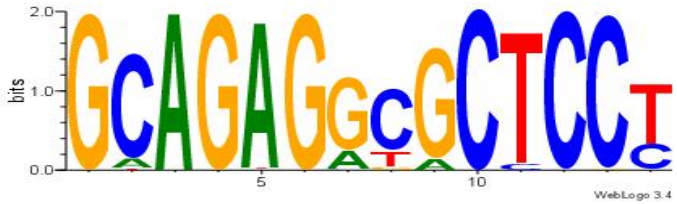

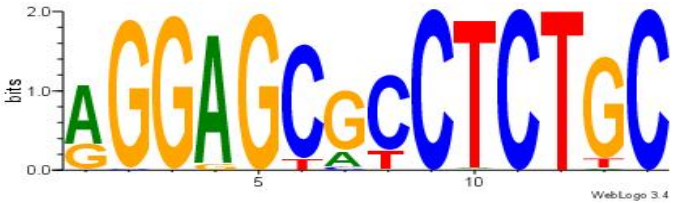

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.12007

Alignment:

```
ATACAATGGGGGTACAGRC
--TCAATGGTGCCCAG---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

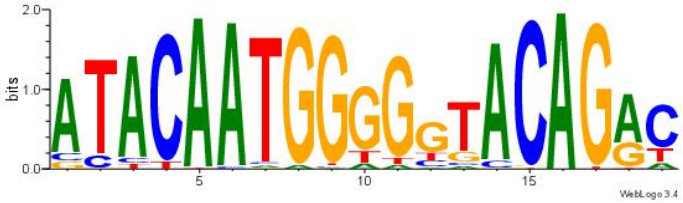

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

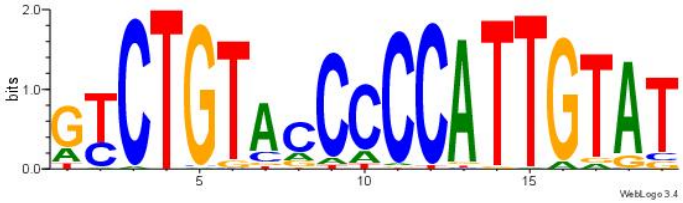

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.120186

Alignment:

```
GACAGGAGATTAACACTGAG
-----CTGGGCACCATTGA-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

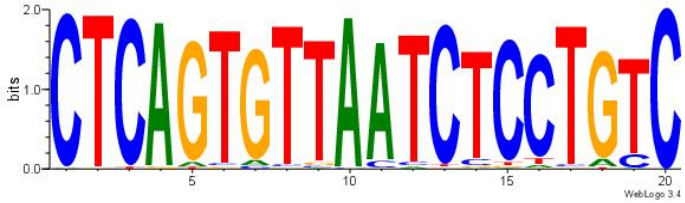

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

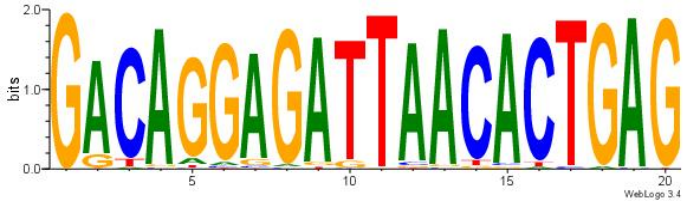

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.121099

Alignment:
TAGTGGTGATTTSTGAGAT
--CTGGGCACCATTGA---

Original motif Consensus sequence: ATCTCASAAATCACCACTA

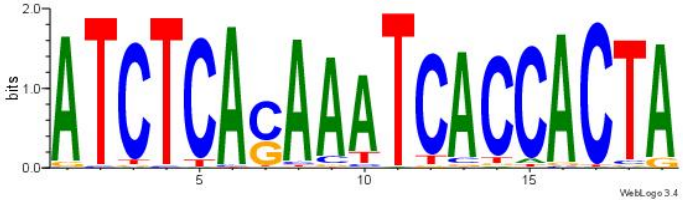

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

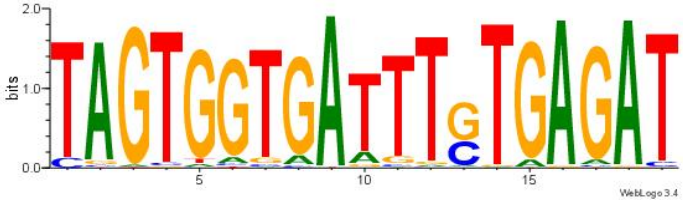

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.12139

Alignment:
GAATCCTGGGACAGCCTGT
-----CTGGGCACCATTGA

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

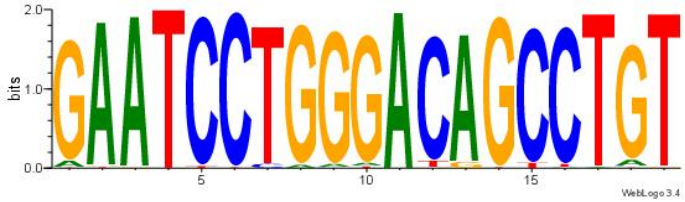

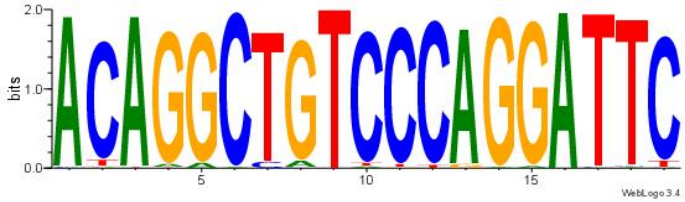

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.121551

Alignment:

```
ATATTGATGATCCTGACC
---TCAATGGTGCCCAG-
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

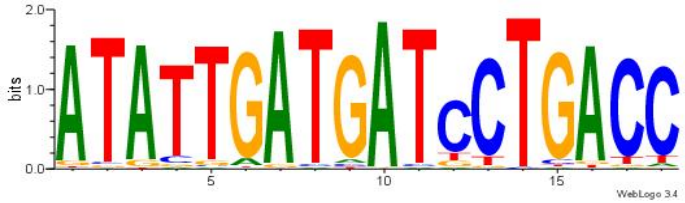

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

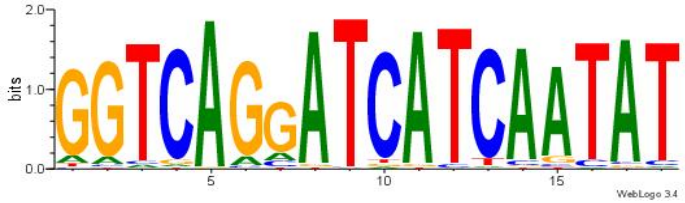

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.121689

Alignment:

```
CCGCGGGGCAGGGCTCG
CTGGGCACCATTGA---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

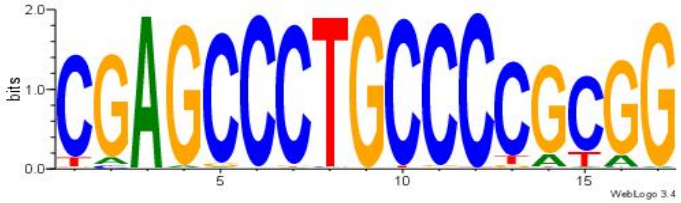

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

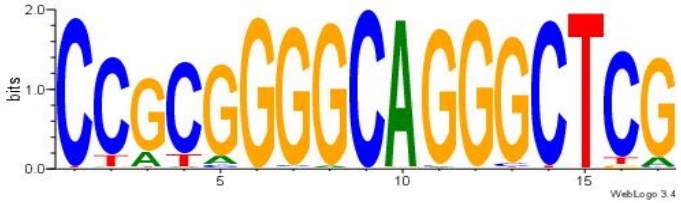

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.122034

Alignment:
TTCAMTCATGATTTGGCTCT
-TCAATGGTGCCCAG-----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

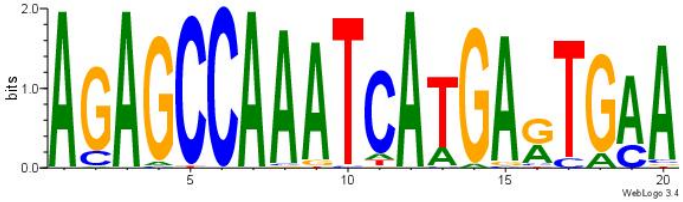

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

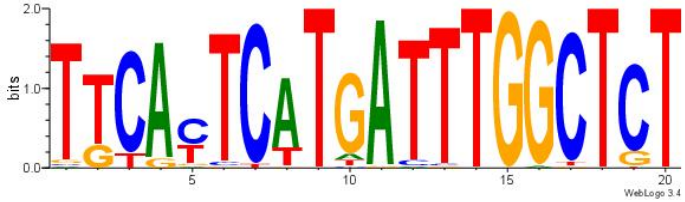

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.123393

Alignment:
ATGGAATAYTATTCAGCCAT
----TCAATGGTGCCCAG--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

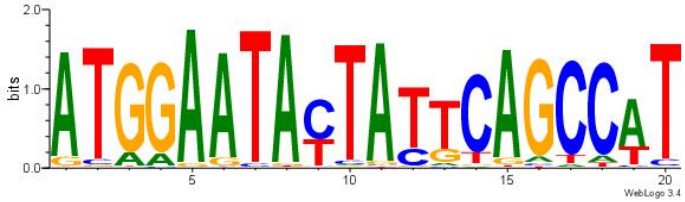

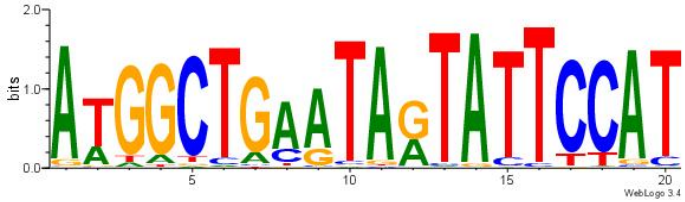

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.123537

Alignment:

```
CCCCGGGCAGTGAGGG
CTGGGCACCATTGA--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

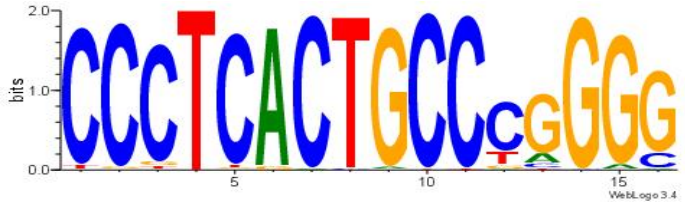

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

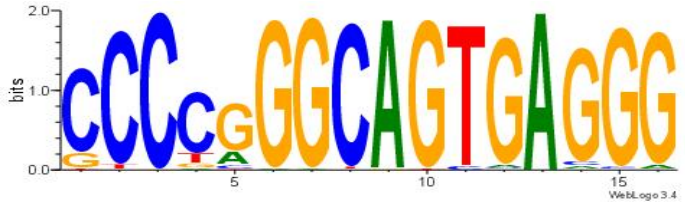

Dataset #:	1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.123752

Alignment:

```
AGCCCCGGTTCCCGCYCGC
-TCAATGGTGCCCAG----
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

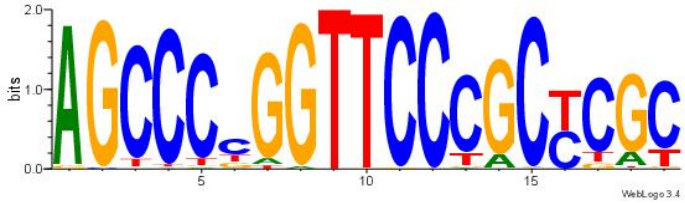

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

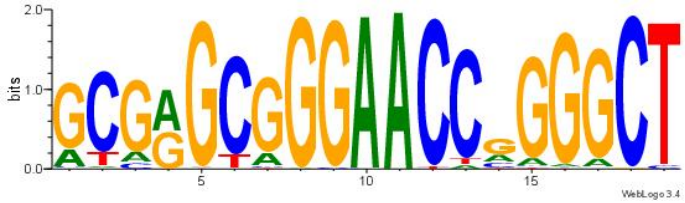

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.123764

Alignment:
GGATCCACTGGGTGAAGCCA
---TCAATGGTGCCCAG---

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

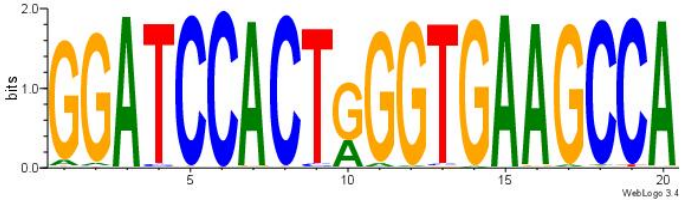

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

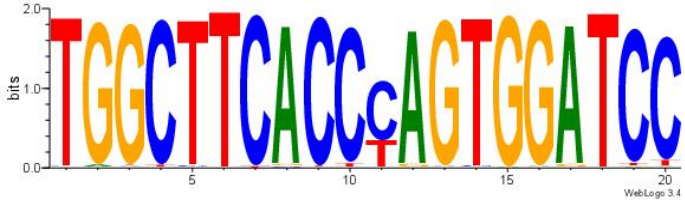

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.124369

Alignment:
TACACCCTCCGCAGCC
TCAATGGTGCCCAG--

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

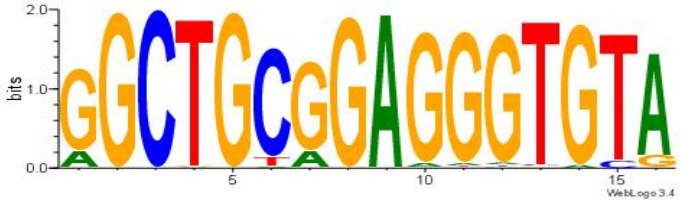

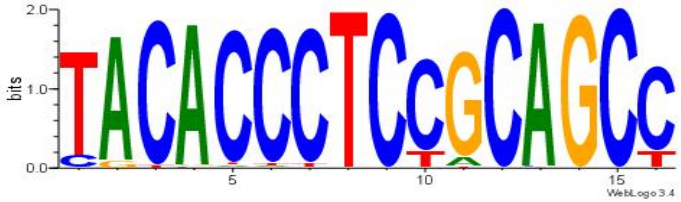

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.124891

Alignment:

```
GGGTGCAGGMGGGCTGAGT
----TCAATGGTGCCCAG-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

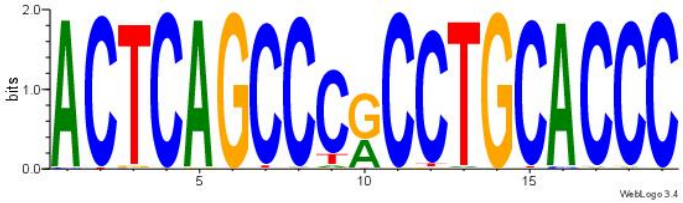

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

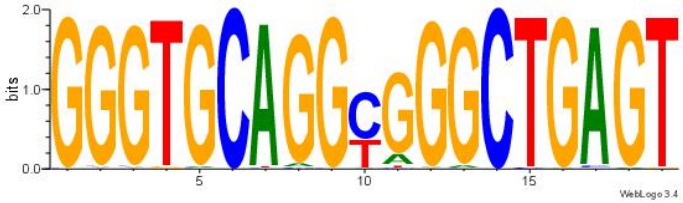

Dataset #:	1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.124947

Alignment:

```
WACAATCAGACCTTG
-TCAATGGTGCCCAG
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

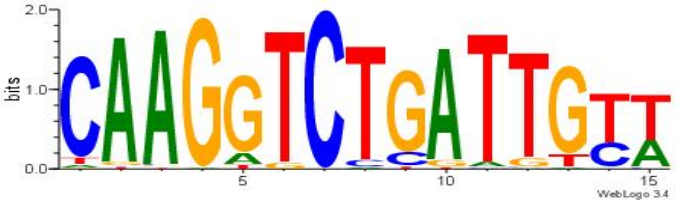

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.124953

Alignment:
AGGCTGTTTTACAGTTAAC
---CTGGGCACCATTGA--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

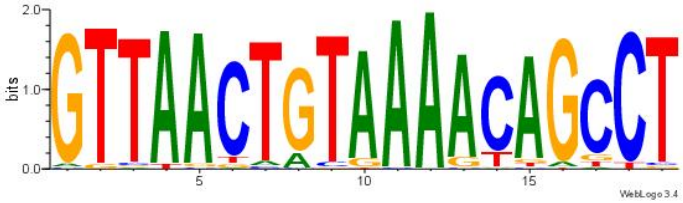

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

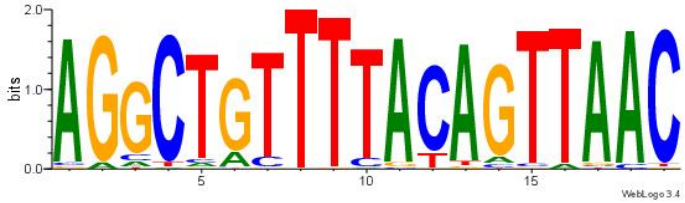

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.125786

Alignment:
AGACAGTGGGYGCAGGHCA
-----CTGGGCACCATTGA

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

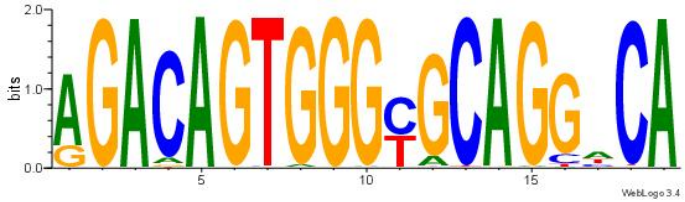

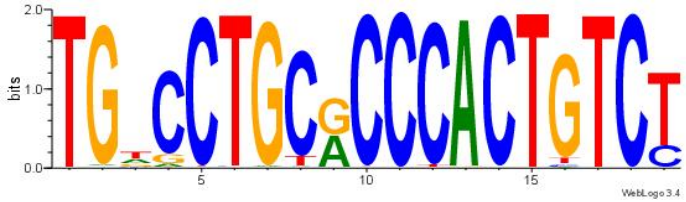

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.125787

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----TCAATGGTGCCCAG-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

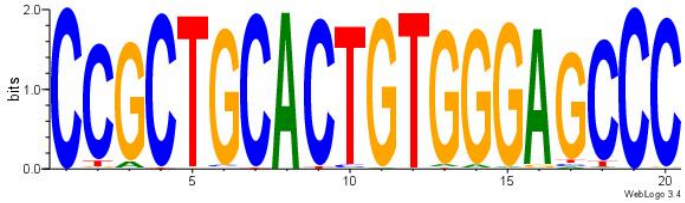

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

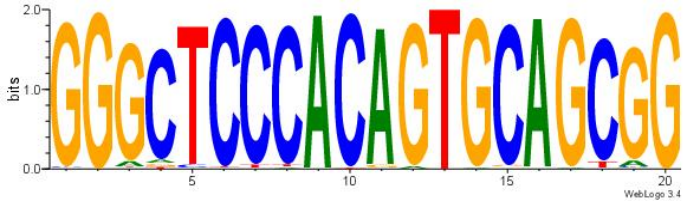

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.126059

Alignment:

```
TGGAGAACCTTTATGTCTAG
------TCAATGGTGCCCAG
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

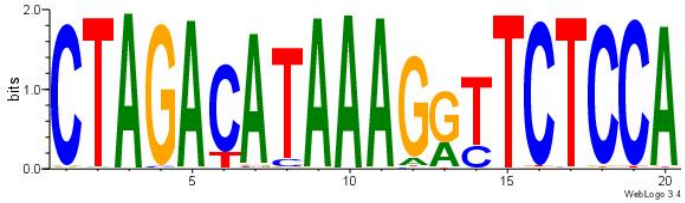

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

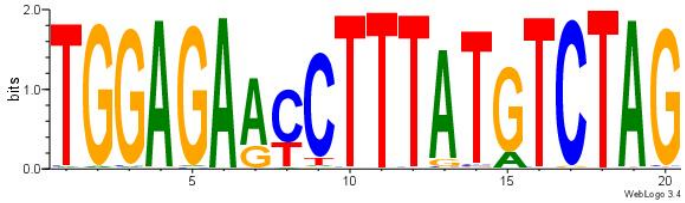

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.126973

Alignment:
TGGGGCTCCAGATG
CTGGGCACCATTGA

Original motif Consensus sequence: CATCTGGAGCCCCA

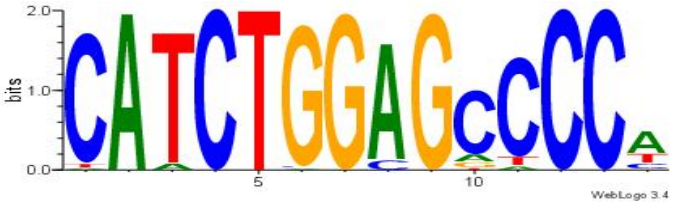

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

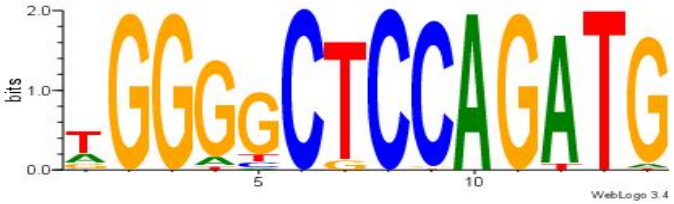

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.126998

Alignment:
CCTTTGACTCCATGTC
--CTGGGCACCATTGA

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

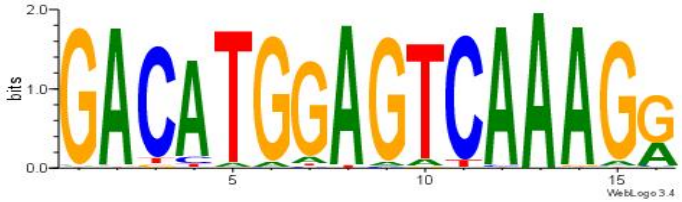

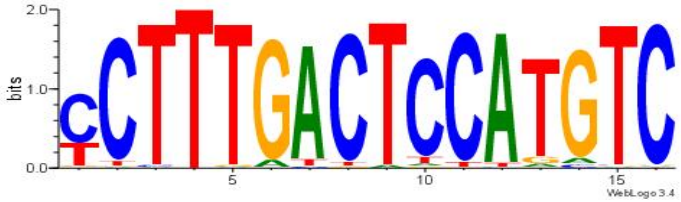

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.127379

Alignment:

```
CTCARGTGATCCTCC
TCAATGGTGCCCAG-
```

Original motif Consensus sequence: CTCARGTGATCCTCC

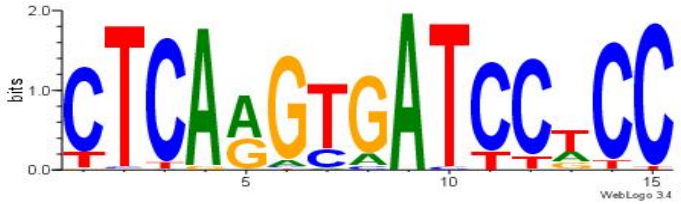

Reverse complement motif Consensus sequence: GGAGGATCACKTG

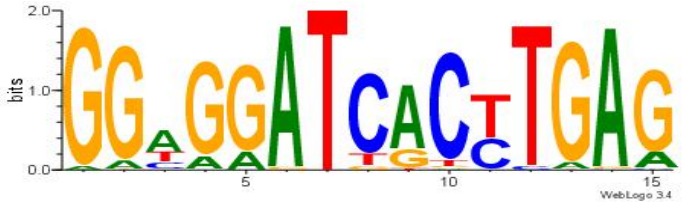

Dataset #:	1
Motif ID:	12

Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.128348

Alignment:

```
GTTGGCCAGGCTGGTCT
--CTGGGCACCATTGA-
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

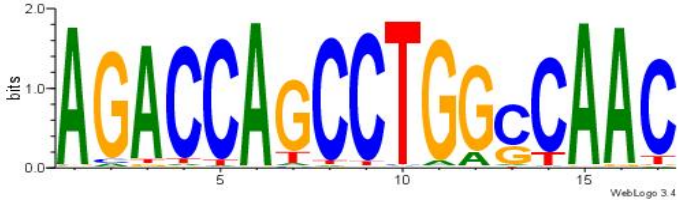

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

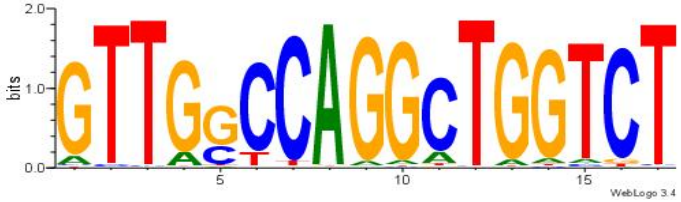

Dataset #: 1 Motif ID: 148 Motif name: Motif 148

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

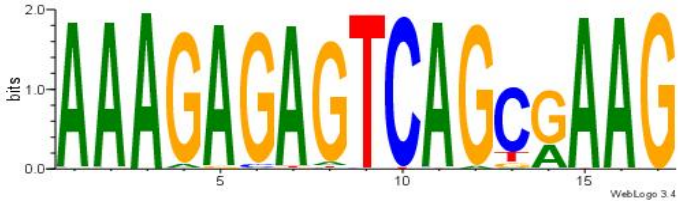

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

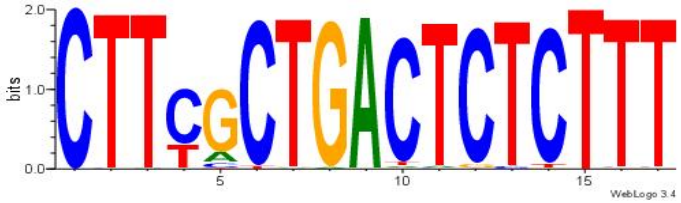

Best Matches for Motif ID 148 (Highest to Lowest)

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0787922

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
-AAAGAGAGTCAGCGAAG--
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

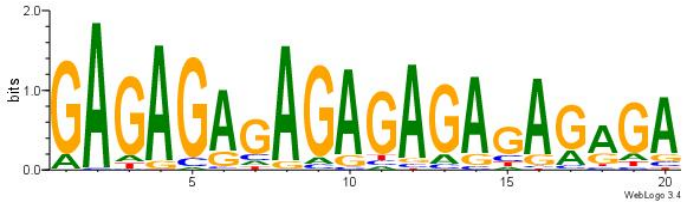

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

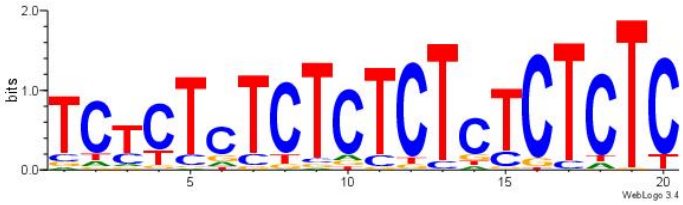

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0890404

Alignment:
CGTCGCTCACGCTGGGAGCT
CTTCGCTGACTCTCTTT---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

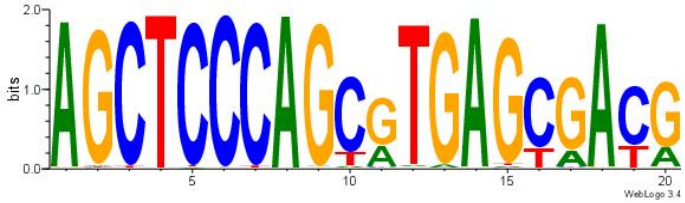

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

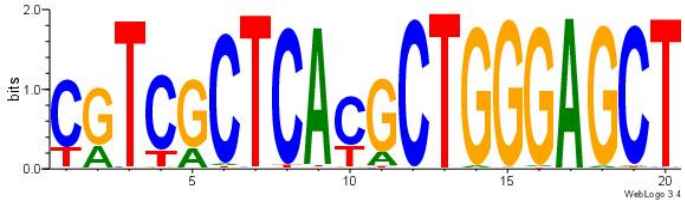

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0907364

Alignment:
ACCKTCGCGGTGAGTGTTAC
--CTTCGCTGACTCTCTTT-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

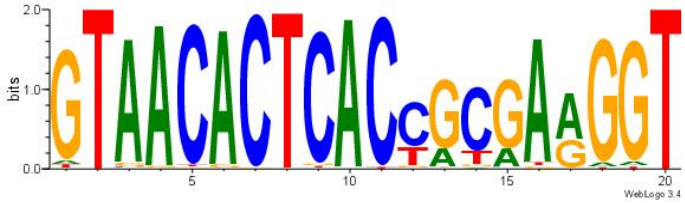

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

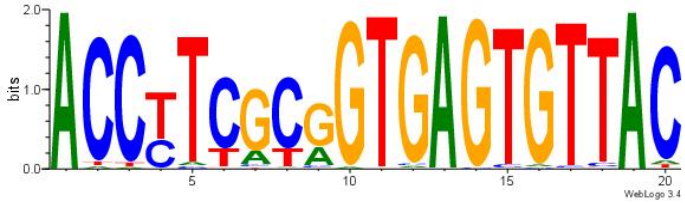

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0975057

Alignment:

```
CAGCTACTCKTATACCCTTG
---CTTCGCTGACTCTCTTT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

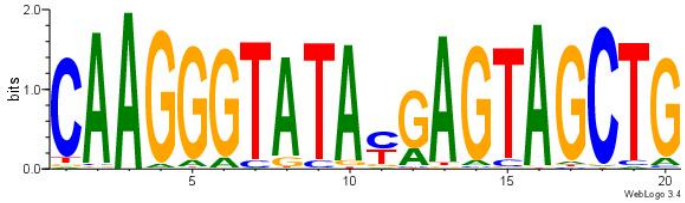

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

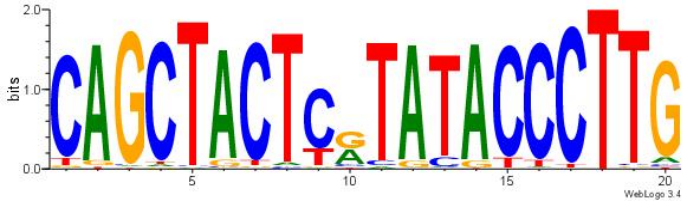

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.1019

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CTTCGCTGACTCTCTTT---
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

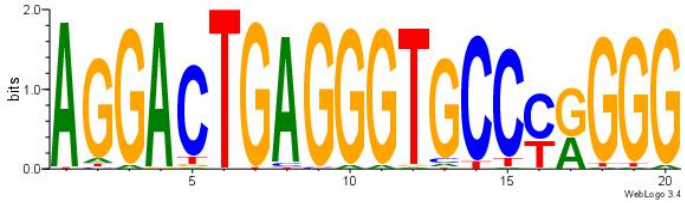

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

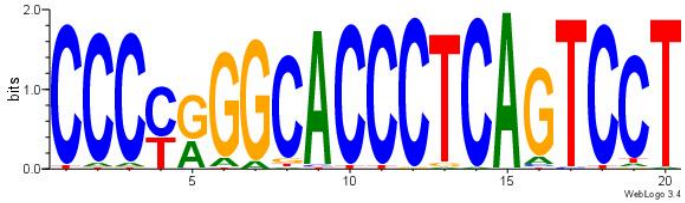

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.103469

Alignment:
ATTGATMKCCAGGGTTGATT
AAAGAGAGTCAGCGAAG---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

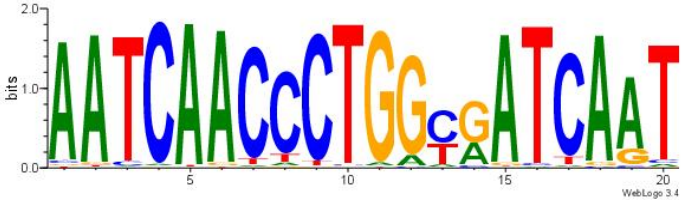

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

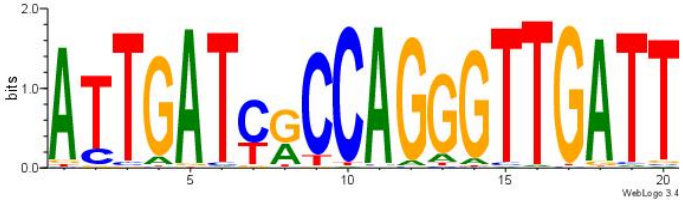

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.104389

Alignment:
AGCTCMKCCTCCTGTCAGAT
--CTTCGCTGACTCTCTTT-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

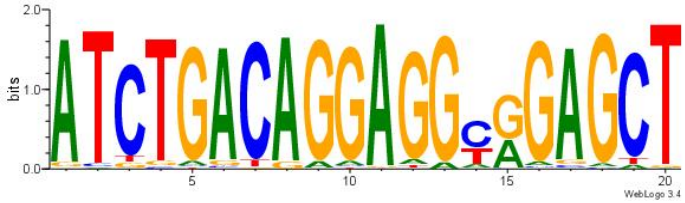

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

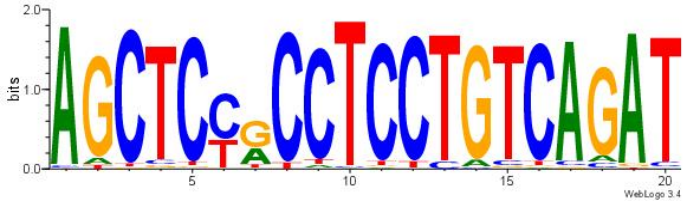

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.105029

Alignment:

```
TCCTATGAGAATCTAATG
-CTTCGCTGACTCTCTTT
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

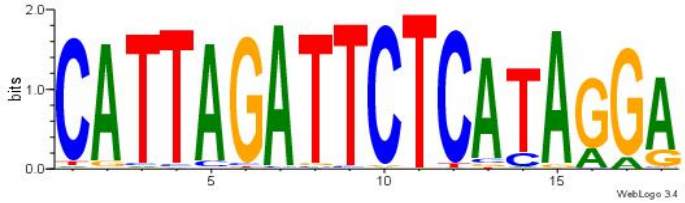

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

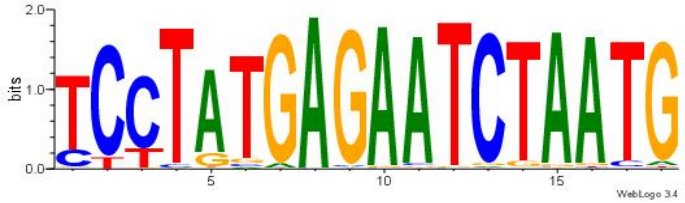

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.106121

Alignment:

```
AGTGAGAACATRYRRTRTTT
AAAGAGAGTCAGCGAAG---
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

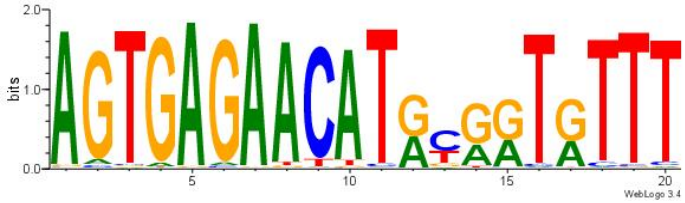

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

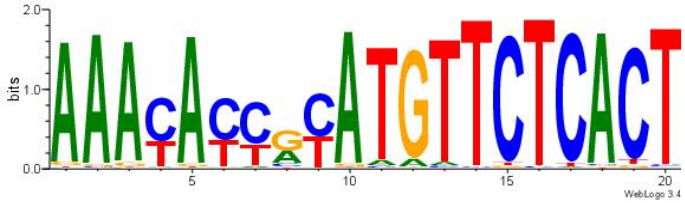

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.106229

Alignment:
GCACTCTGTMTCTAGCT
CTTCGCTGACTCTCTTT

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

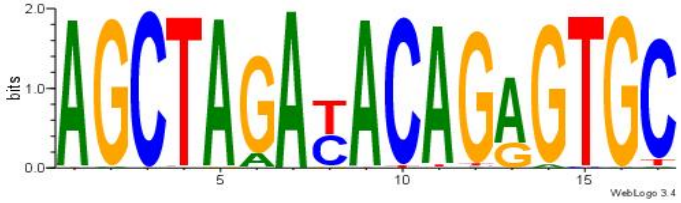

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

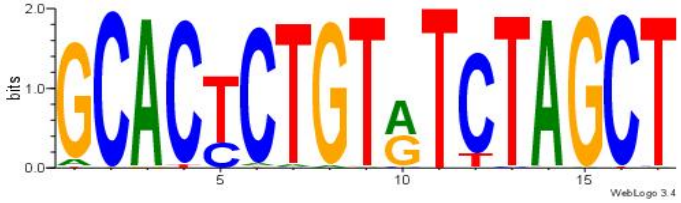

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.106344

Alignment:
CTGGGCTCCTGAGTCTGGTG
CTTCGCTGACTCTCTTT---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

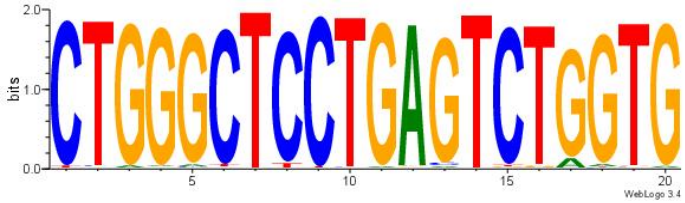

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

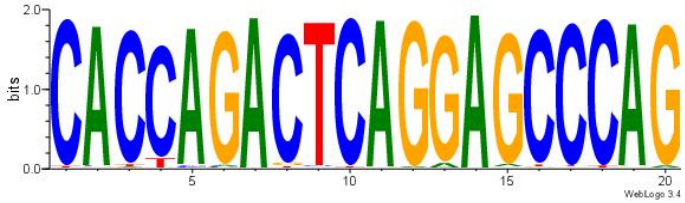

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.107677

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
CTTCGCTGACTCTCTTT---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

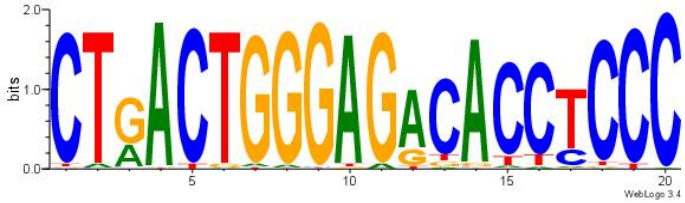

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

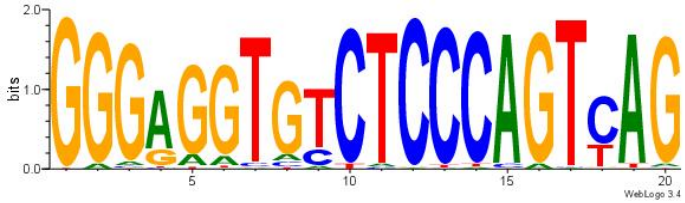

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.108566

Alignment:

```
AAATTAGGCCAATTAATAAC
AAAGAGAGTCAGCGAAG---
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

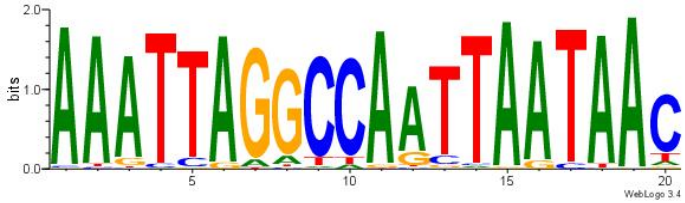

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.108789

Alignment:
TMGGGAGGCTGAGGCAGGAG
--AAAGAGAGTCAGCGAAG-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

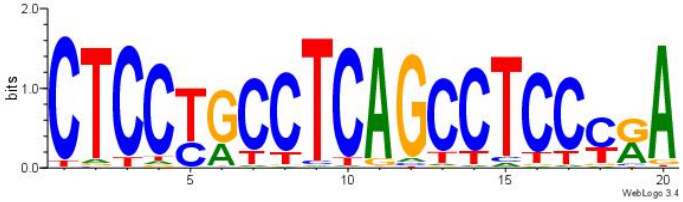

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

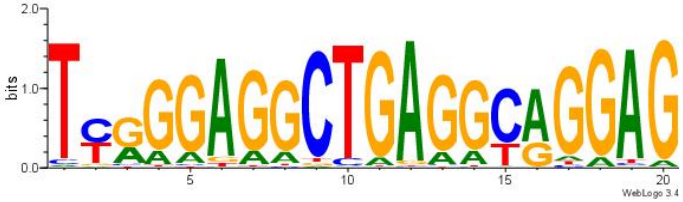

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.109258

Alignment:
GGCAATGCCTCGCCCTGCTT
---CTTCGCTGACTCTCTTT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

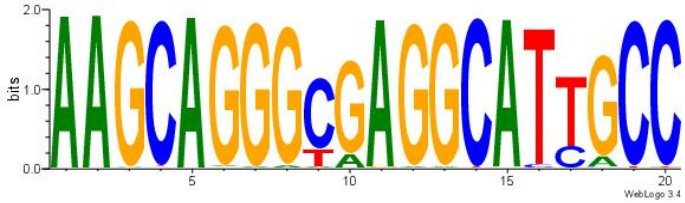

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

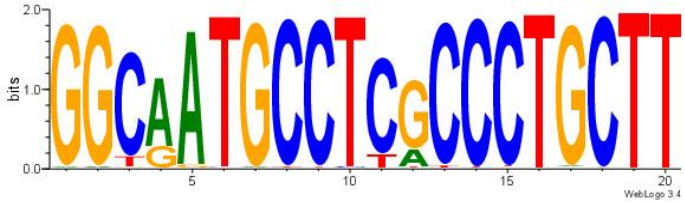

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.109302

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
AAAGAGAGTCAGCGAAG---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

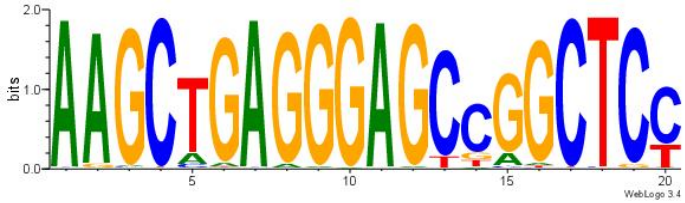

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

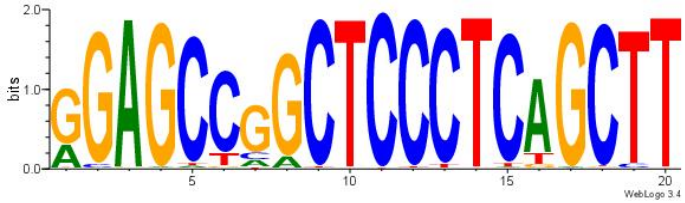

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.110492

Alignment:

```
GAAAGGGAACTCCCTGACCC
-AAAGAGAGTCAGCGAAG--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

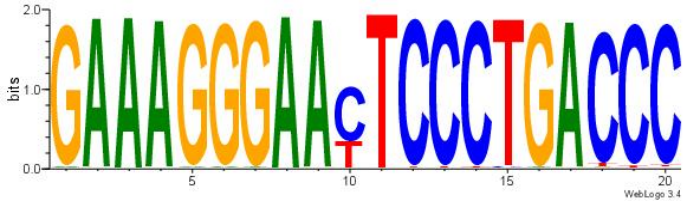

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

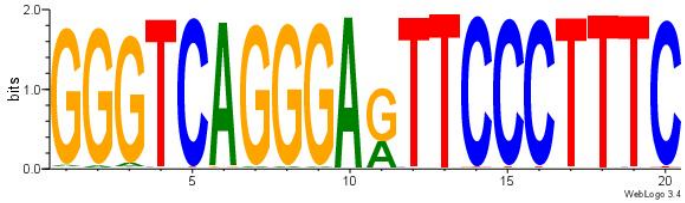

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.110813

Alignment:
GGATTTMKGACTTGCATGGG
-CTTCGCTGACTCTCTTT--

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

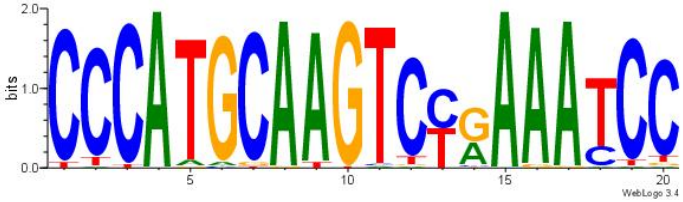

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

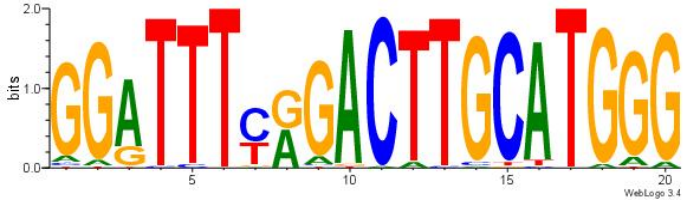

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.111564

Alignment:
CGGCGCTGMGCTCGATTTCT
CTTCGCTGACTCTCTTT---

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

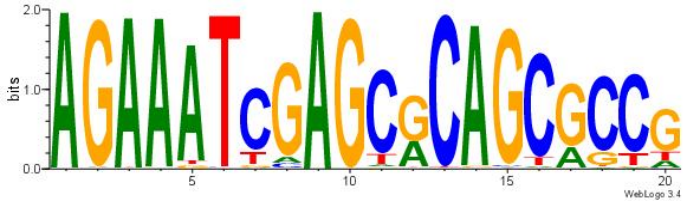

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

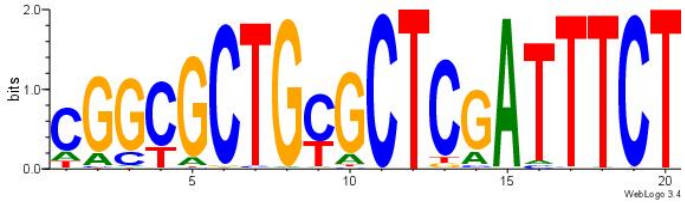

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.111837

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--CTTCGCTGACTCTCTTT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

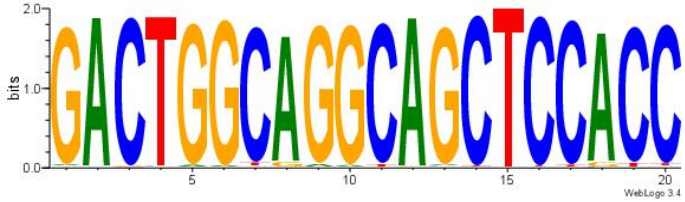

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

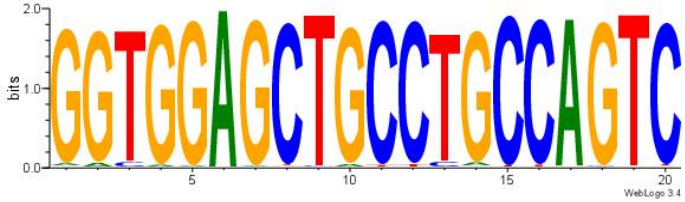

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.112874

Alignment:

```
AGTAGGTGCTCARTAAATRB
-AAAGAGAGTCAGCGAAG--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

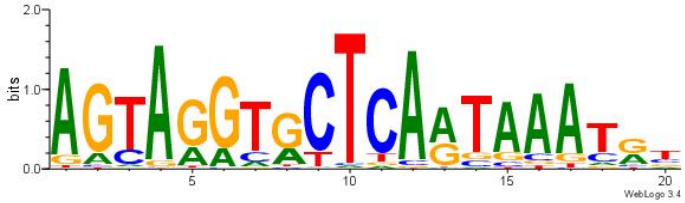

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

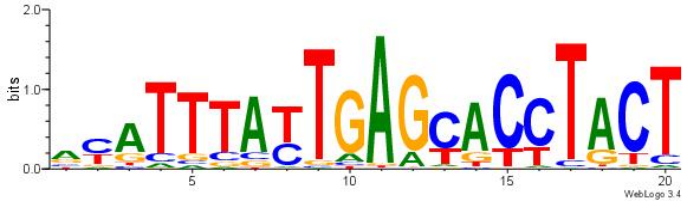

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.11344

Alignment:
AGGCCCCAGTGTSTGTTGTT
---CTTCGCTGACTCTCTTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

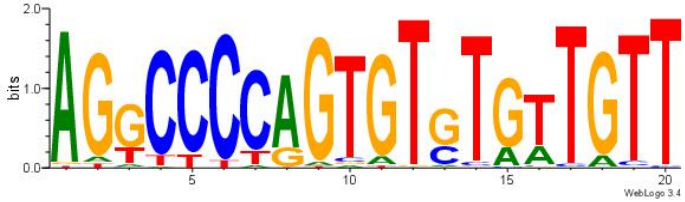

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

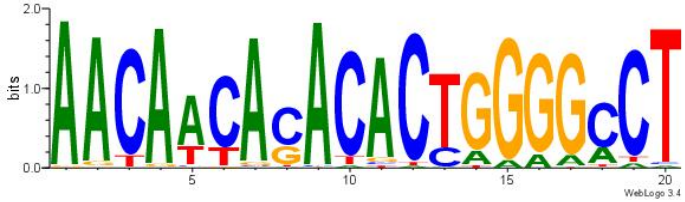

Dataset #: 1
Motif ID: 43
Motif name: Motif 43
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.113686

Alignment:
GCCAGGCAGAGRGKCTCCT
-CTTCGCTGACTCTCTTT-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

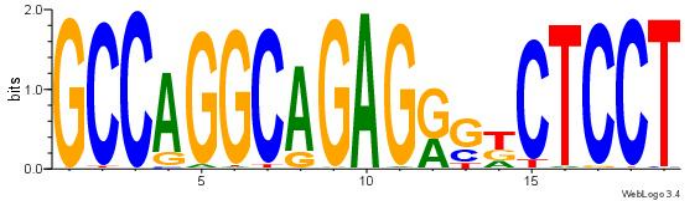

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

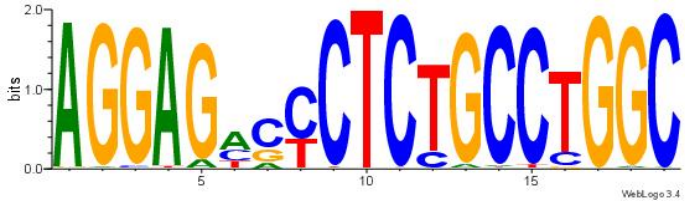

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.113868

Alignment:

```
GGATCCACTGGGTGAAGCCA
AAAGAGAGTCAGCGAAG---
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

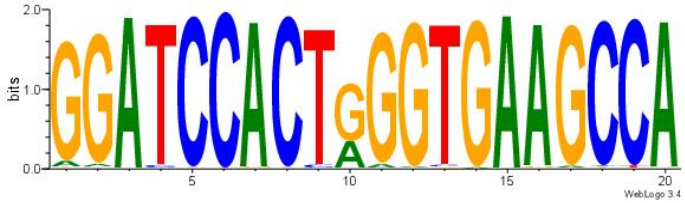

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

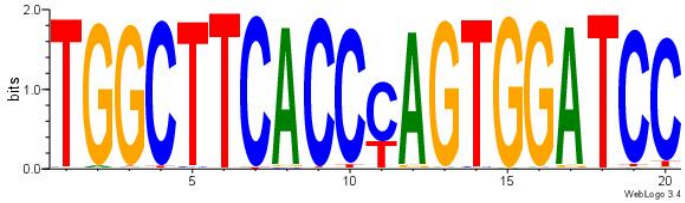

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.114177

Alignment:

```
CAGTCTGTGTCTTTTAATT
-CTTCGCTGACTCTCTTT-
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

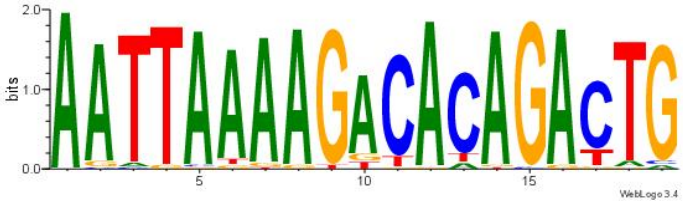

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

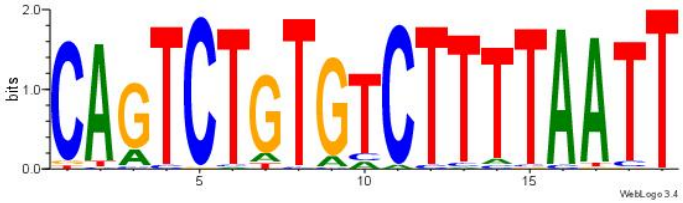

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.114745

Alignment:
GAATCCTGGGACAGCCTGT
--CTTCGCTGACTCTCTTT

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

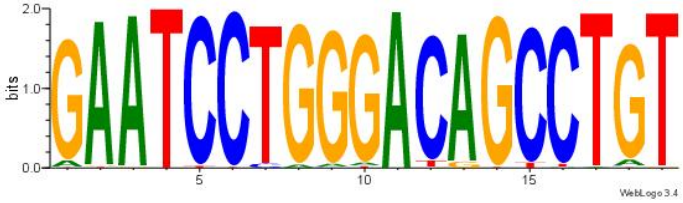

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

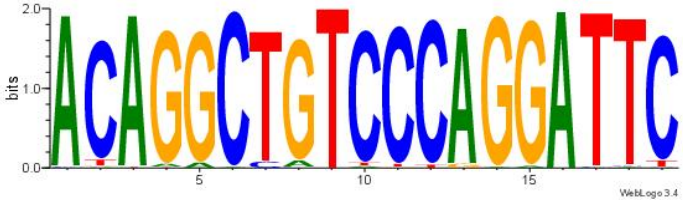

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.114915

Alignment:
AGAGCTCTGGCTGGCATCT
-CTTCGCTGACTCTCTTT-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

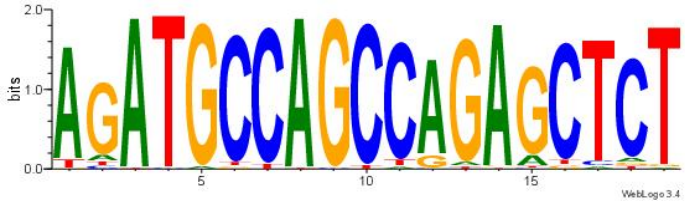

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

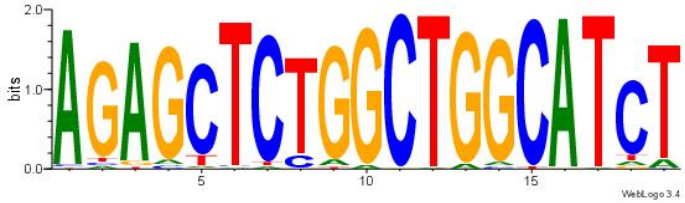

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.11497

Alignment:

```
TTGGTAGGATCCGTGATGCC
-AAAGAGAGTCAGCGAAG--
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

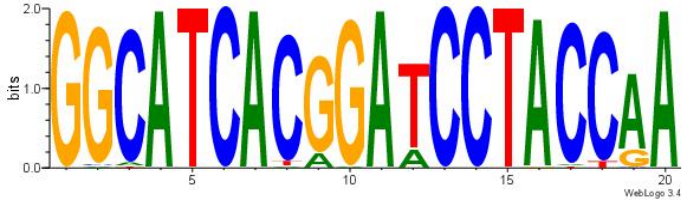

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

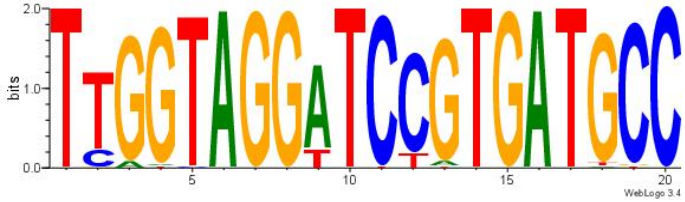

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.115365

Alignment:

```
AAGGAACAAACTCCRGACAC
---AAAGAGAGTCAGCGAAG
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

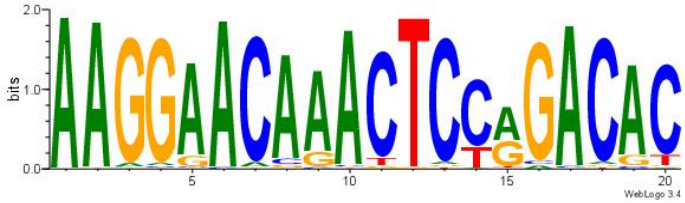

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

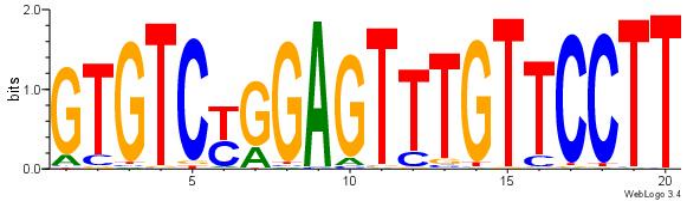

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.116152

Alignment:
CATGGCGGGCTGCAGGTC
-CTTCGCTGACTCTCTTT

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

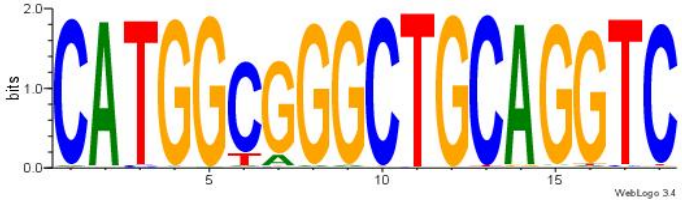

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

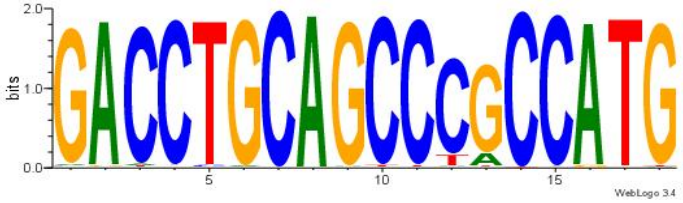

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.116253

Alignment:
GGGGGCTGACCCCCCCACC
--CTTCGCTGACTCTCTTT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

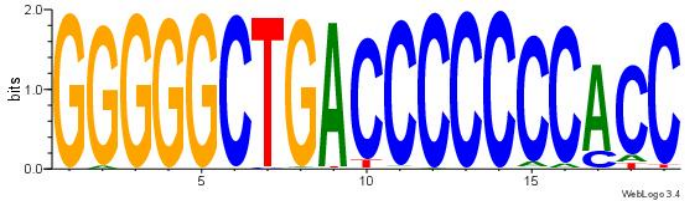

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

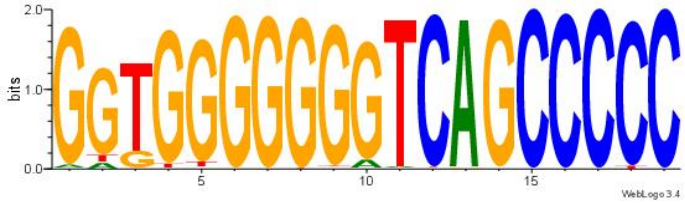

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.116302

Alignment:

```
CCCYAATACTGCGCTTTTC
CTTCGCTGACTCTCTTT--
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

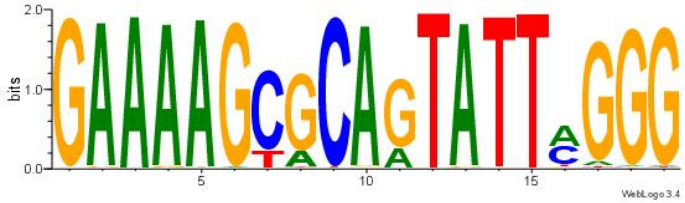

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

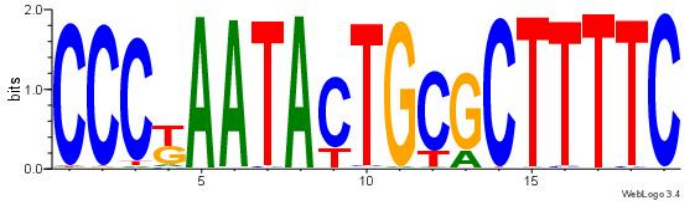

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.116635

Alignment:

```
CGCCCATCGTCTGGGATGT
-AAAGAGAGTCAGCGAAG-
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

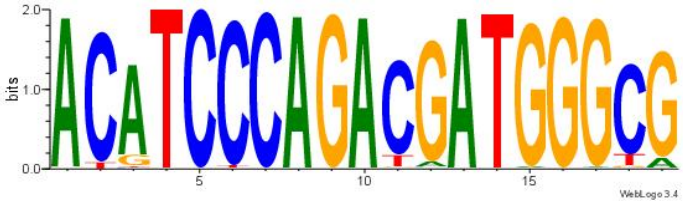

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

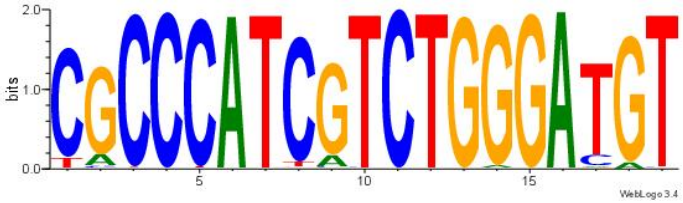

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.117585

Alignment:
CTATTGTGAATARTGCTGC
--CTTCGCTGACTCTCTTT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

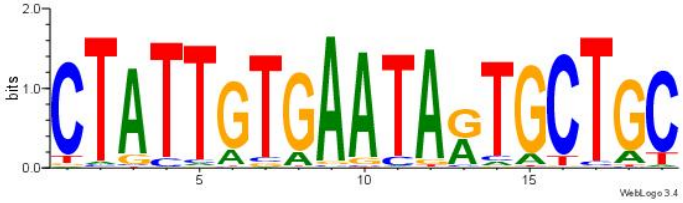

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

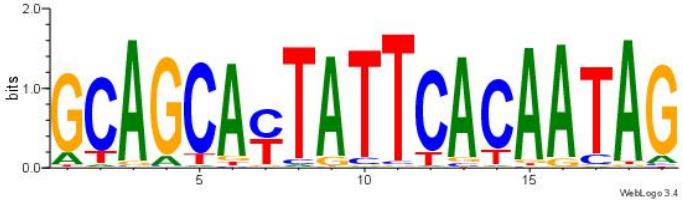

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.117834

Alignment:
CAAGTTGACACATAAAATTA
-AAAGAGAGTCAGCGAAG--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

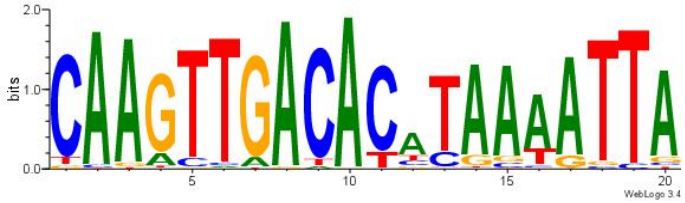

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

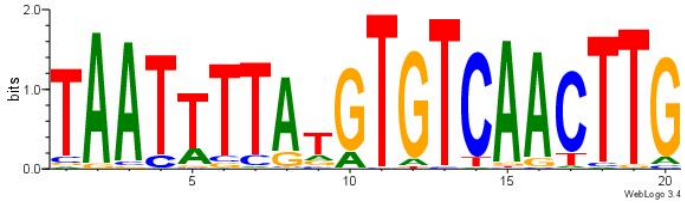

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.11824

Alignment:

```
AGGAACAGCTCCRGTCTAC
--AAAGAGAGTCAGCGAAG
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

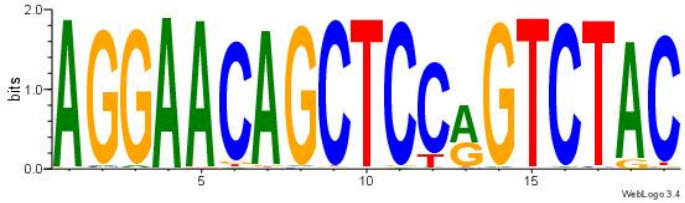

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

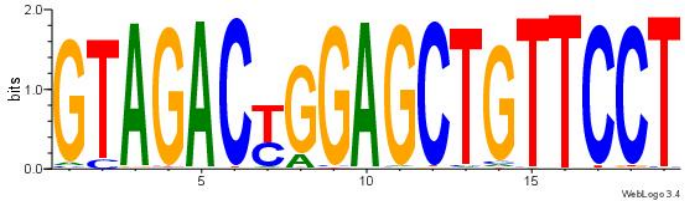

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.119234

Alignment:

```
AAATTACCCAGTCTCAGGTA
---CTTCGCTGACTCTCTTT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

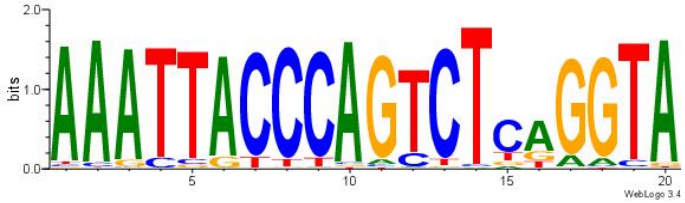

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

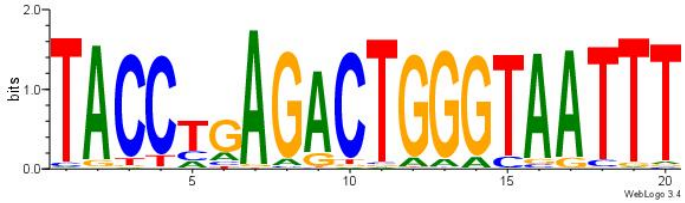

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.121129

Alignment:
GTKTMTATMTACCACATTTT
---CTTCGCTGACTCTCTTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

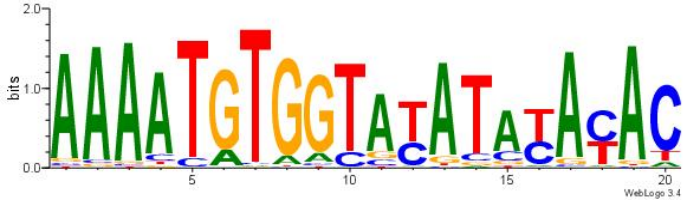

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

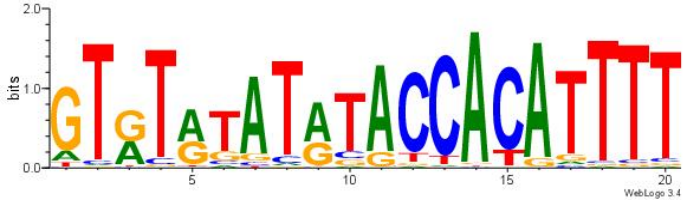

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.1213

Alignment:
AATGAKATCATGTCYTTTGC
-CTTCGCTGACTCTCTTT--

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

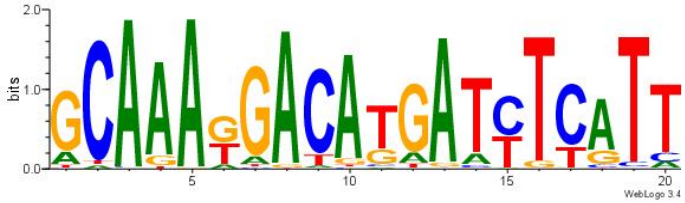

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

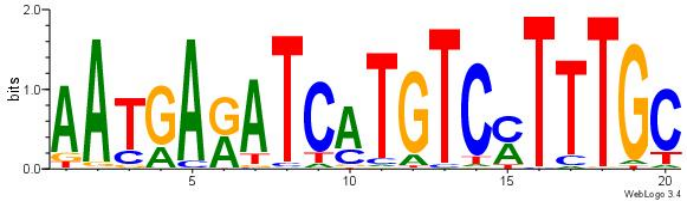

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.121496

Alignment:

```
CMTAGYACAGTGCCTGGCAC
CTTCGCTGACTCTCTTT---
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

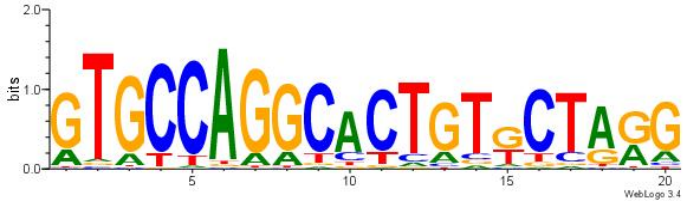

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

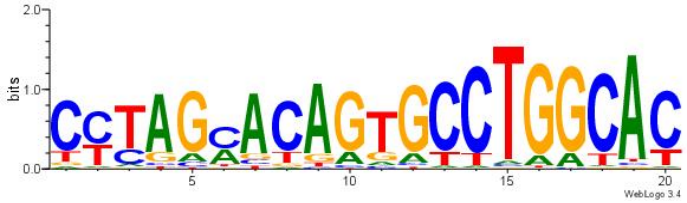

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.121537

Alignment:

```
CTGGGCRACAGAGYRAGACY
-AAAGAGAGTCAGCGAAG--
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

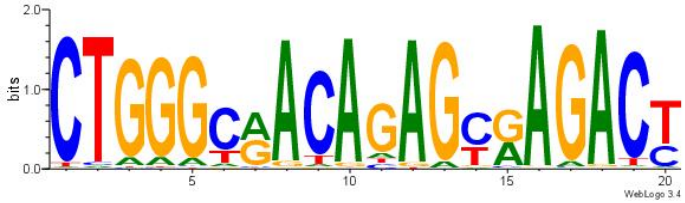

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

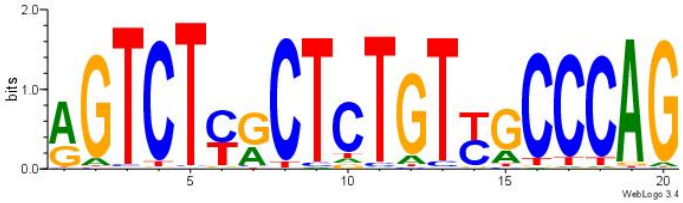

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.12168

Alignment:
GCCKGGMKCMGTGGCTCAKG
---CTTCGCTGACTCTCTTT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

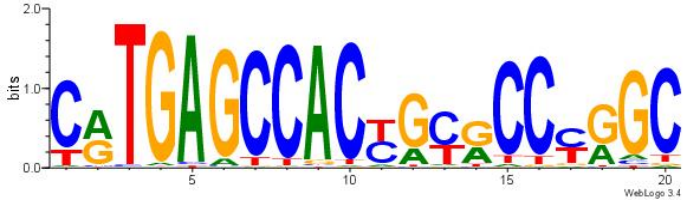

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

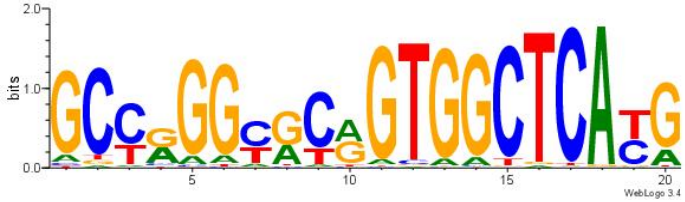

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.12234

Alignment:
AWTKKTGGTTKCCAGKGGCT
---AAAGAGAGTCAGCGAAG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

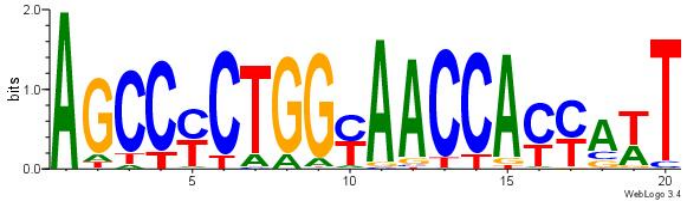

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

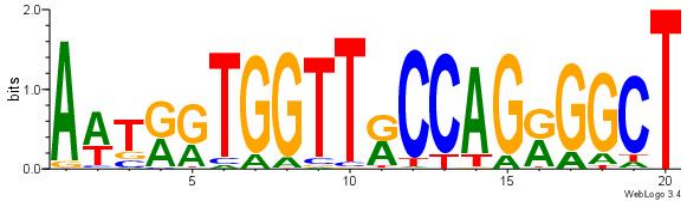

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.12261

Alignment:

```
CCACCACAGCTCAAGGAGGC
--AAAGAGAGTCAGCGAAG-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

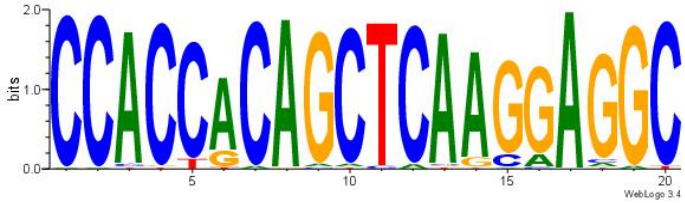

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

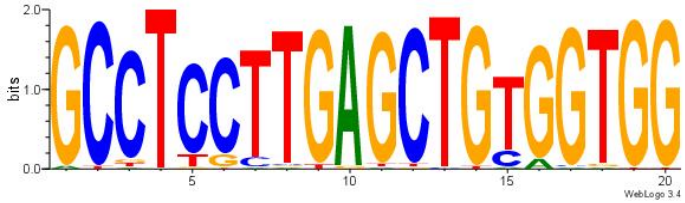

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.122687

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CTTCGCTGACTCTCTTT--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

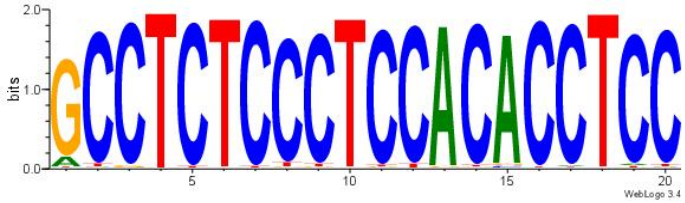

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

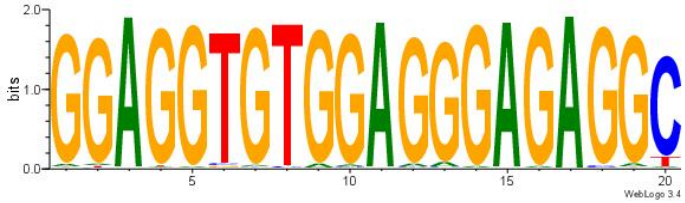

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.122762

Alignment:
TAAAAGACTACAWATTGGGT
AAAGAGAGTCAGCGAAG---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

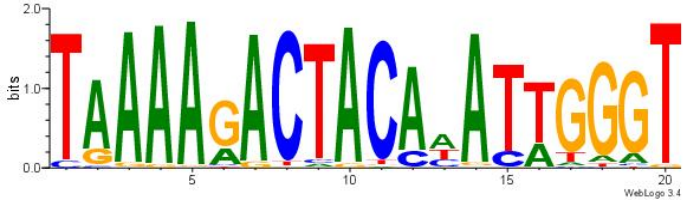

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

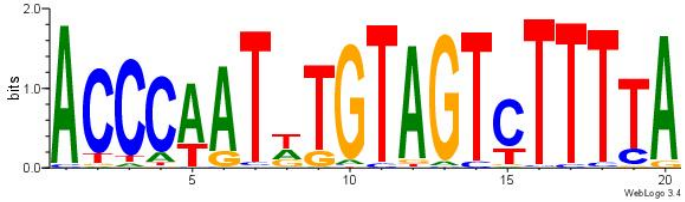

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.123094

Alignment:
CCTTGGCCAGCCCAGAAAG
--AAAGAGAGTCAGCGAAG

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

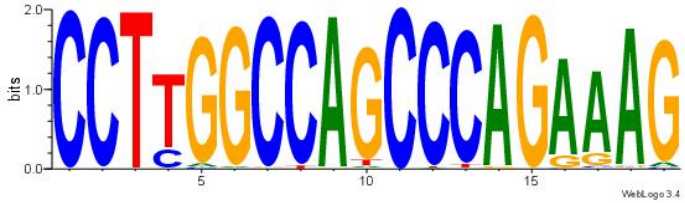

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

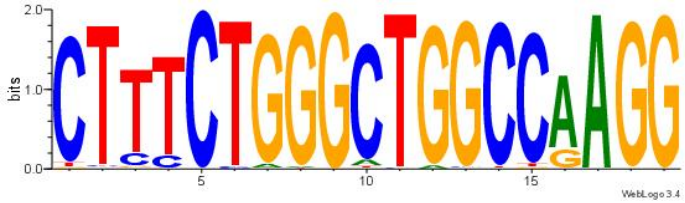

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.123224

Alignment:

```
ATAAAAACTTGCTGGTTTT
--CTTCGCTGACTCTCTTT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

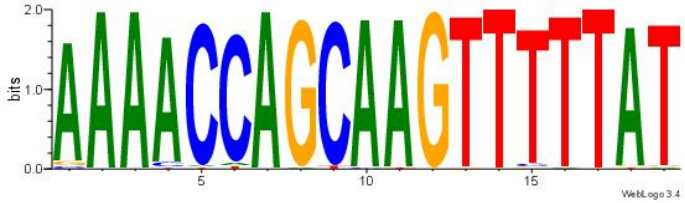

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

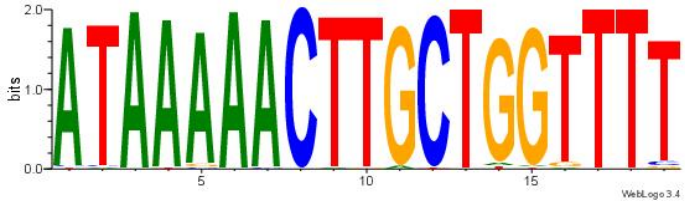

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.123389

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-CTTCGCTGACTCTCTTT--
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

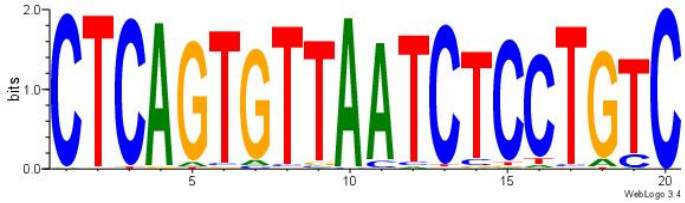

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

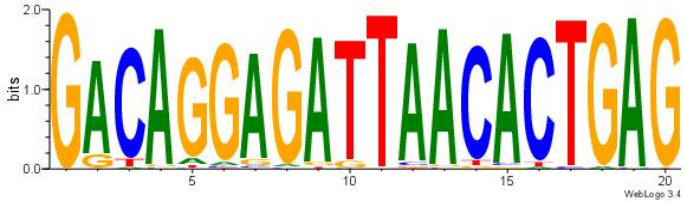

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.123465

Alignment:
ACAAGGCAAGTCCCTTCY
CTTCGCTGACTCTCTTT-

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

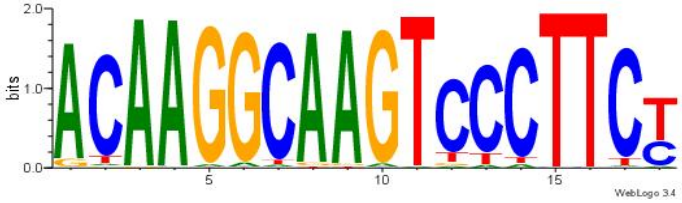

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

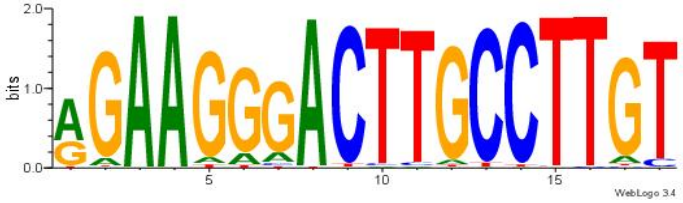

Dataset #: 1 Motif ID: 149 Motif name: Motif 149

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

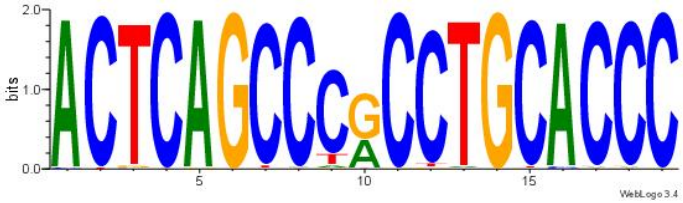

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

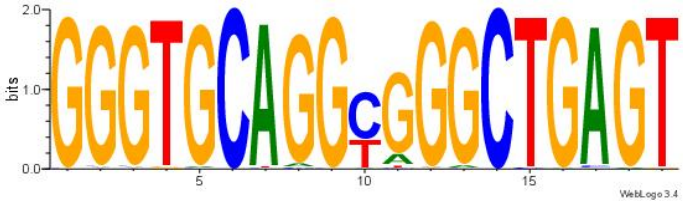

Best Matches for Motif ID 149 (Highest to Lowest)

Dataset #: 1
Motif ID: 98
Motif name: Motif 98

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.107094

Alignment:
AGTTCCGGGTGGGCGTGGG
GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

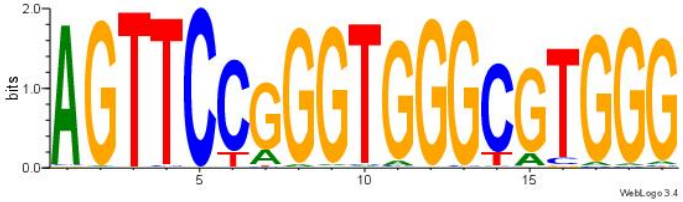

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

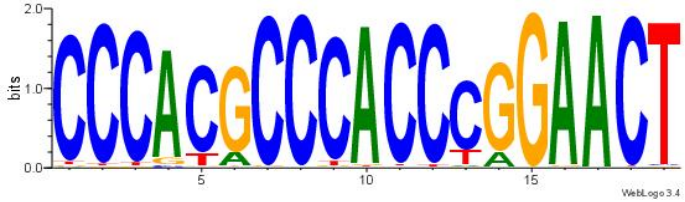

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.11583

Alignment:
GCTTAGCACCYGGGCCAGC
ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

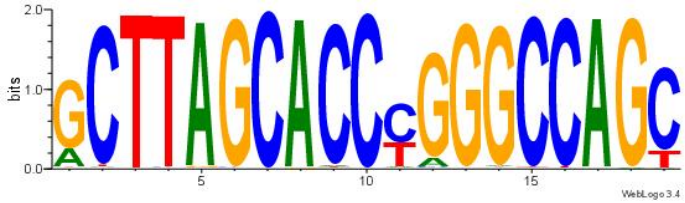

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

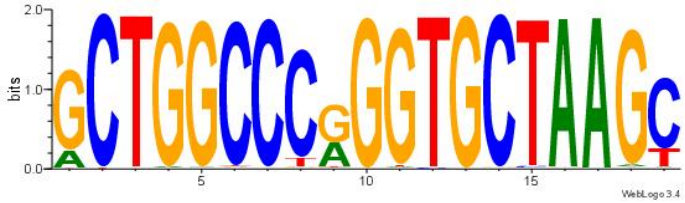

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.118514

Alignment:
GCTCCACCCAGTTCGAGCTT
ACTCAGCCCRCCTGCACCC-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

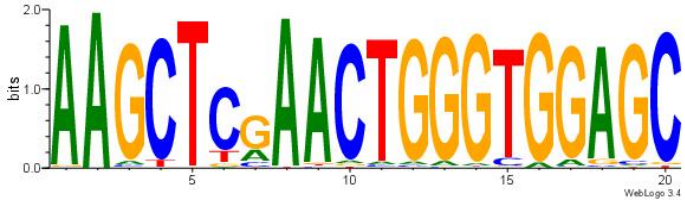

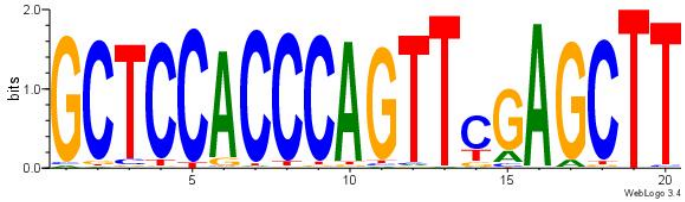

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.119864

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

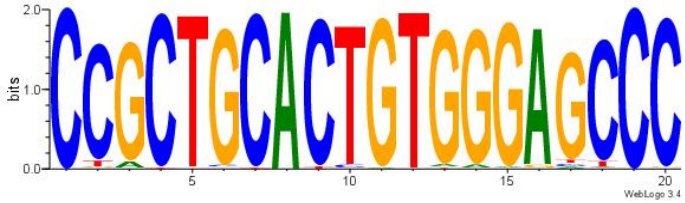

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

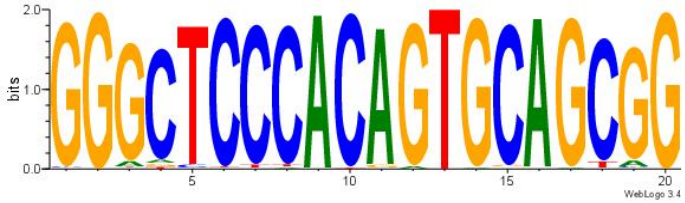

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.120923

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
GGGTGCAGGMGGGCTGAGT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

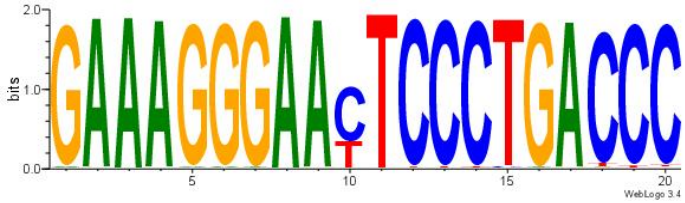

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

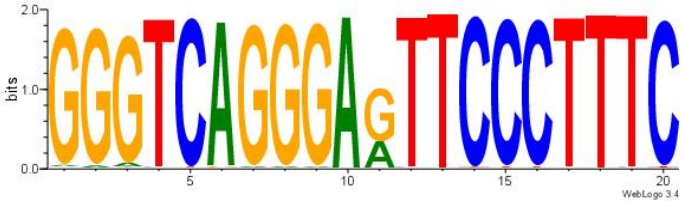

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.121737

Alignment:
GCCTCTCCCTCCACACCTCC
-ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

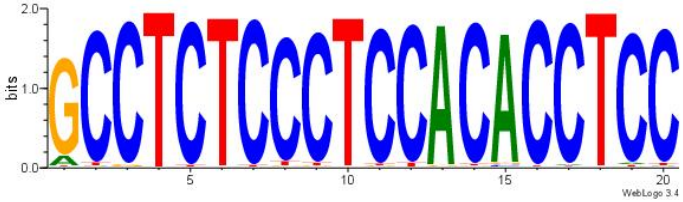

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

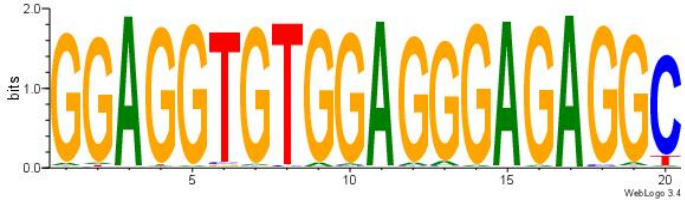

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.121908

Alignment:
AGCTCMKCCTCCTGTCAGAT
-ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

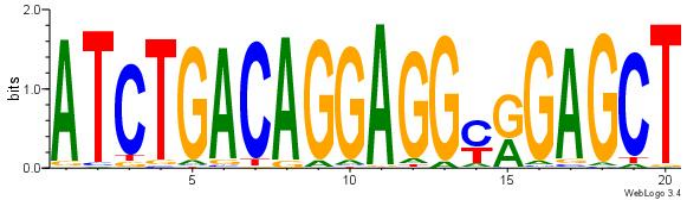

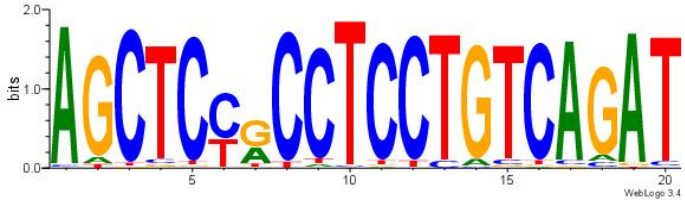

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.123323

Alignment:

```
ATTGATMKCCAGGGTTGATT
-GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

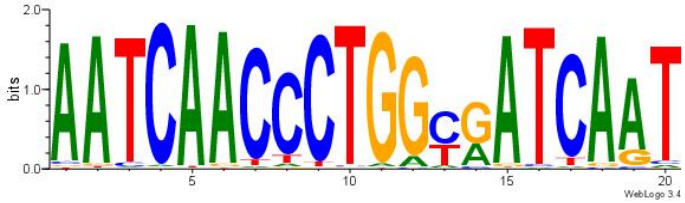

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

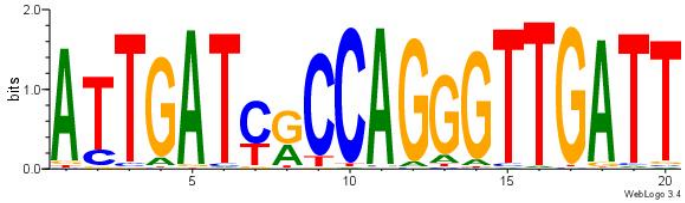

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.123419

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

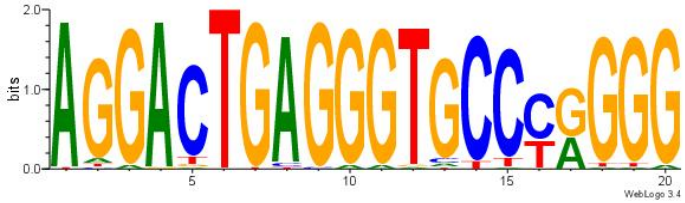

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

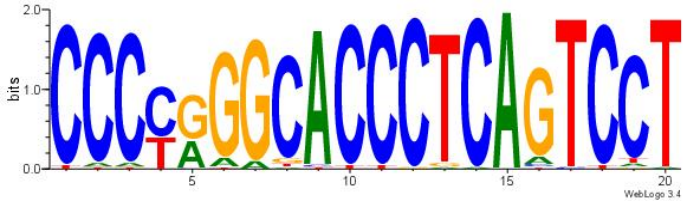

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.124228

Alignment:
GAAHCAACCKAAKTGTCCAT
ACTCAGCCCRCCTGCACCC-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

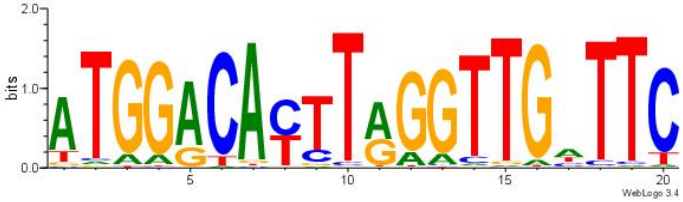

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

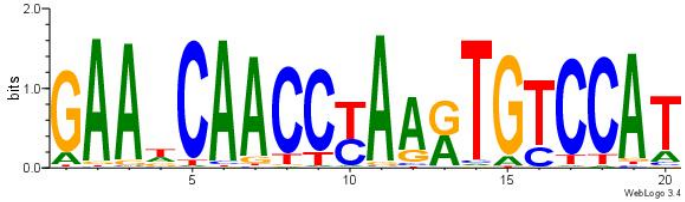

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.124563

Alignment:
CCTTGGCCAGCCCAGAAAG
ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

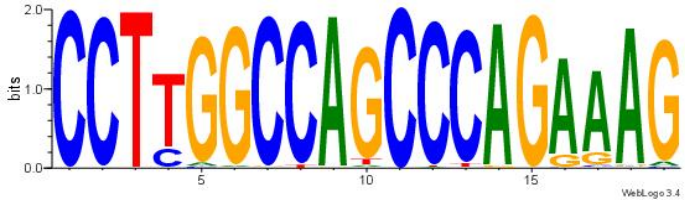

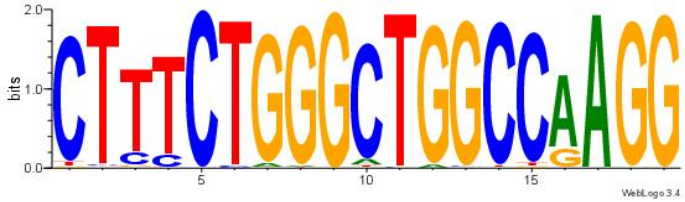

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128413

Alignment:

```
ATGTAACCAAAYACCACCTG
ACTCAGCCCRCCTGCACCC-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

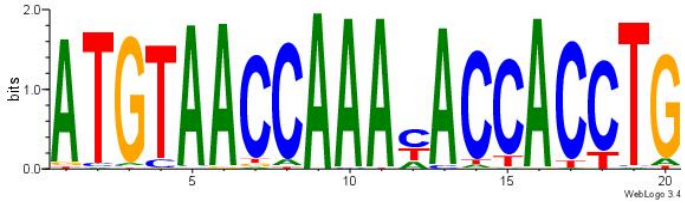

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

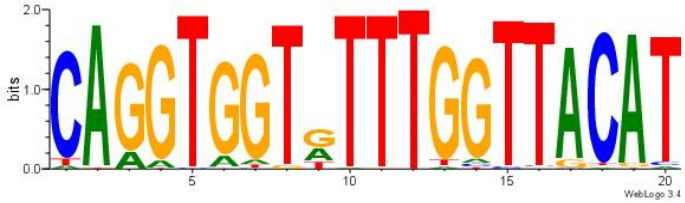

Dataset #: 1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.129088

Alignment:

```
GGGGGCTGACCCCCCCACC
GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

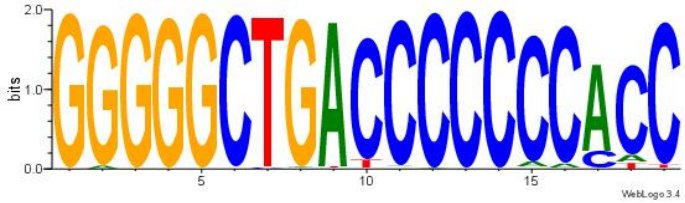

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

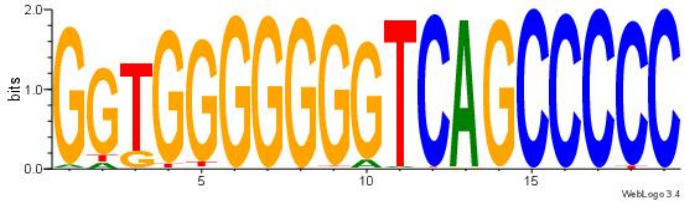

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.130807

Alignment:
AAGTCTCCCAATTACAACT
ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

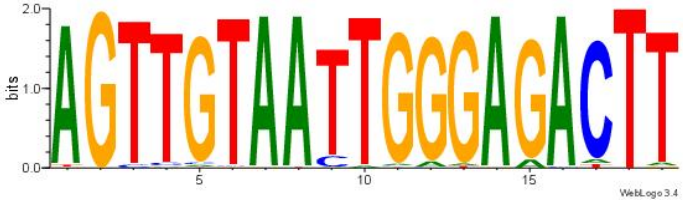

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

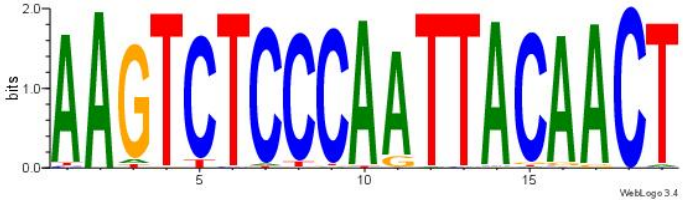

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130894

Alignment:
AGGASCSTCYSWGCCMGGY
GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

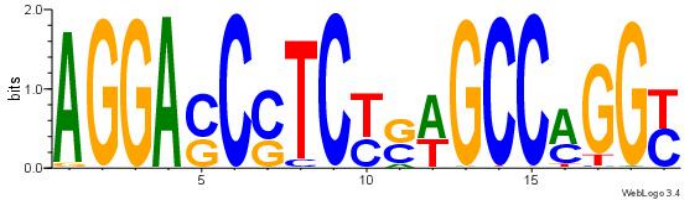

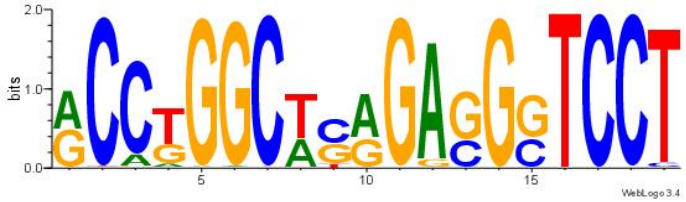

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.13199

Alignment:

```
AGTGAGAACATRYRRTRTTT
GGGTGCAGGMGGGCTGAGT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

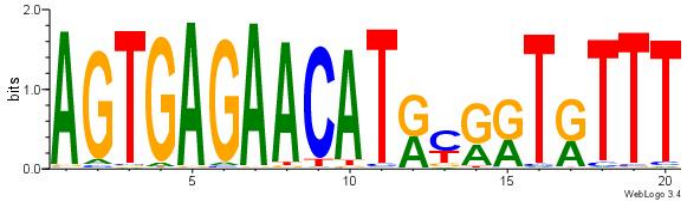

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

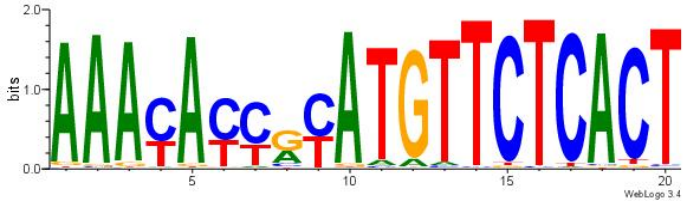

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132478

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-ACTCAGCCCRCCTGCACCC
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

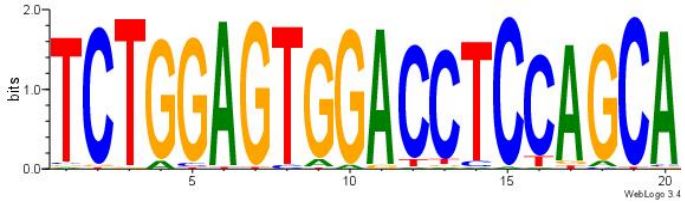

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

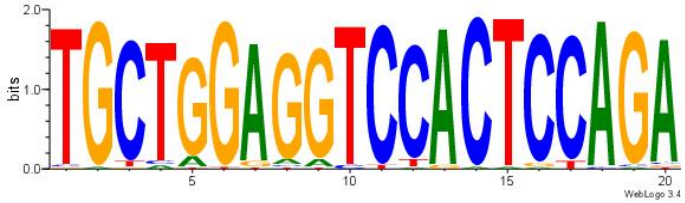

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.132966

Alignment:
ACTGTCTTCCACCTCCACAT
-ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

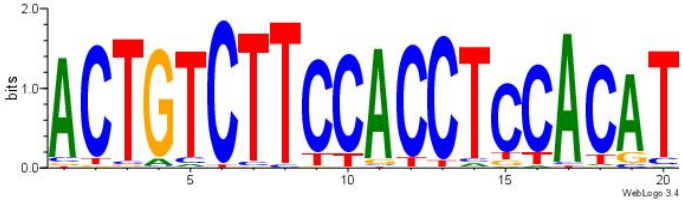

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

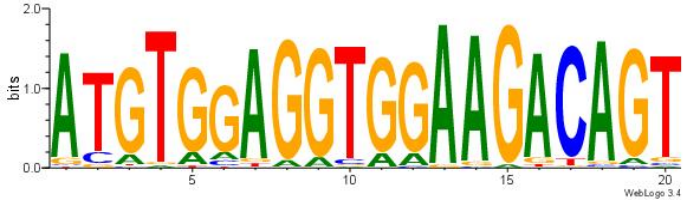

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.133074

Alignment:
AAATTAGGCCAATTAATAAC
-ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

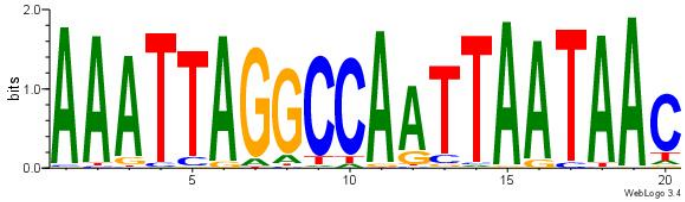

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13339

Alignment:

```
GCGMGCGGGAACCGGGGCT
GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

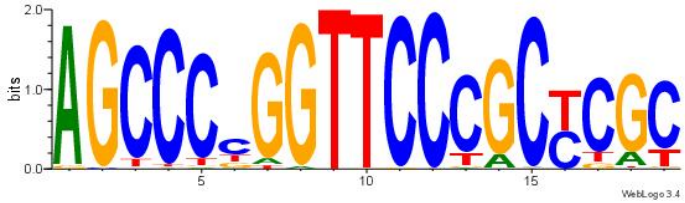

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

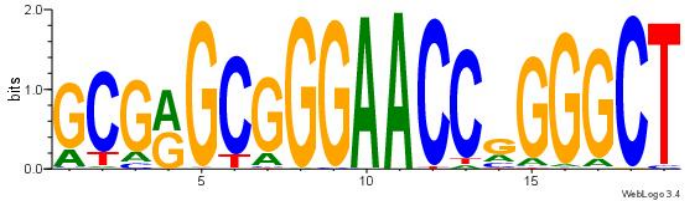

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.136245

Alignment:

```
TACCTGAGACTGGGTAATTT
GGGTGCAGGMGGGCTGAGT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

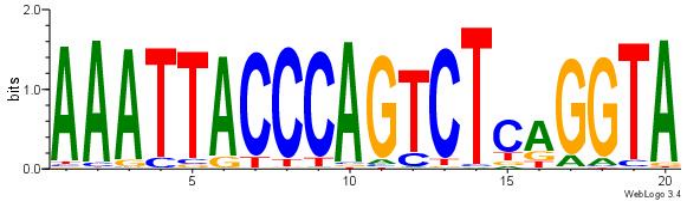

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

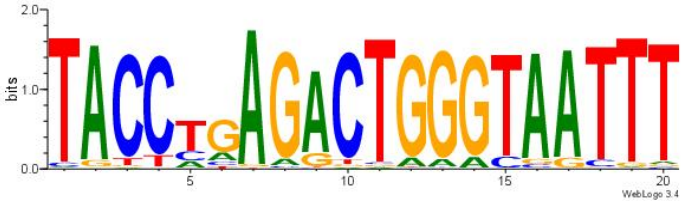

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.136644

Alignment:
GCTGGCCCGCAAGCGCCGCG
-GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

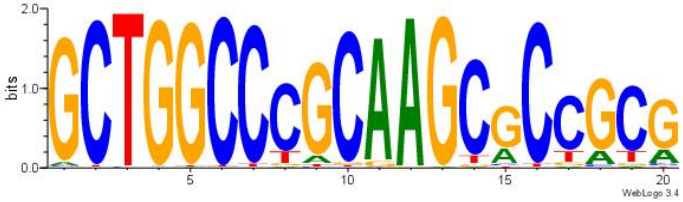

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

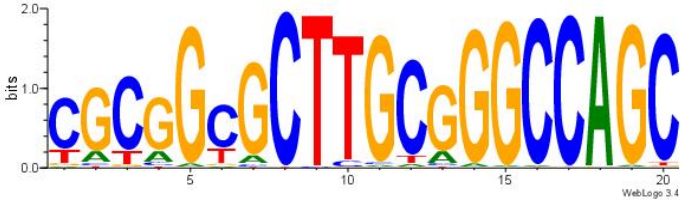

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.136975

Alignment:
GACTTCAAGAATGAAGCCG
GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

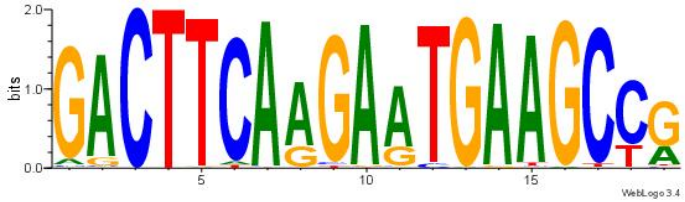

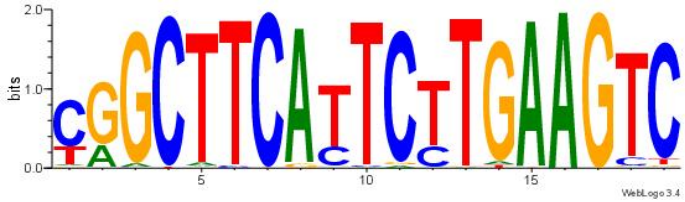

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.137174

Alignment:
GCCKGGMKCMGTGGCTCAKG
-GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

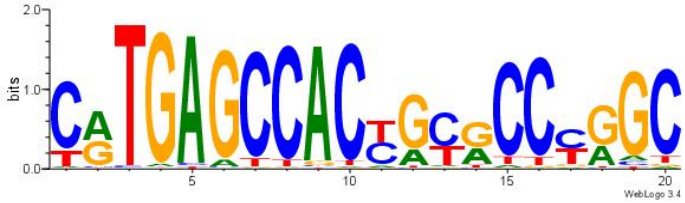

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

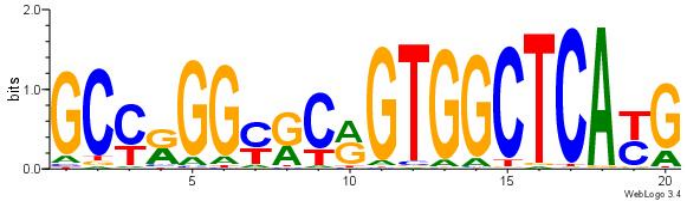

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.137328

Alignment:

```
AGGTCCTTCAGGAGGTATTC
GGGTGCAGGMGGGCTGAGT-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

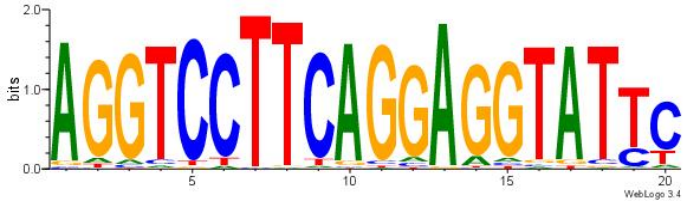

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

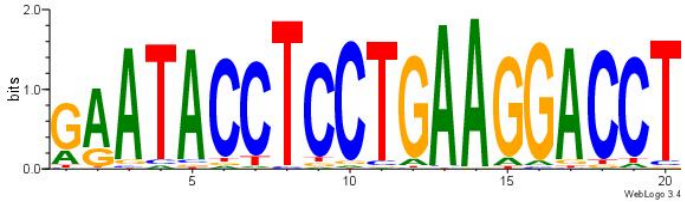

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.137956

Alignment:
AACAACASACACTGGGGCCT
-ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

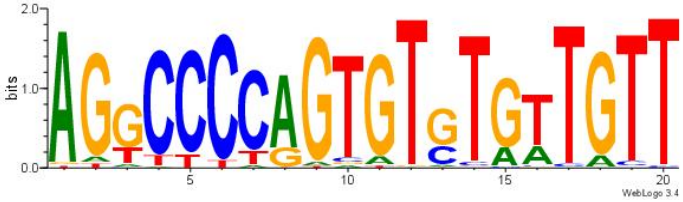

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

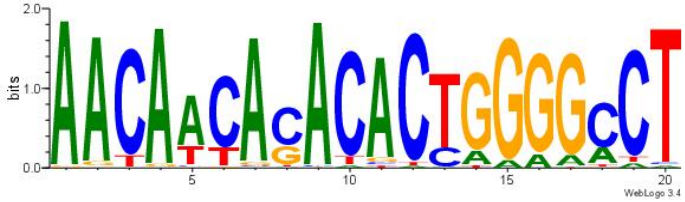

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137973

Alignment:
CCCATGCAAGTCYRAAATCC
ACTCAGCCCRCCTGCACCC-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

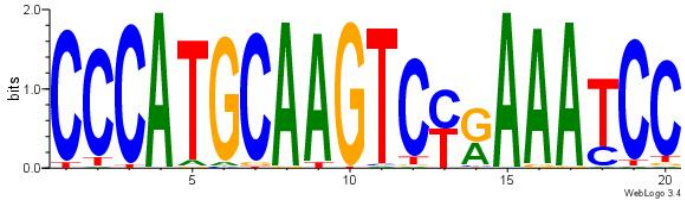

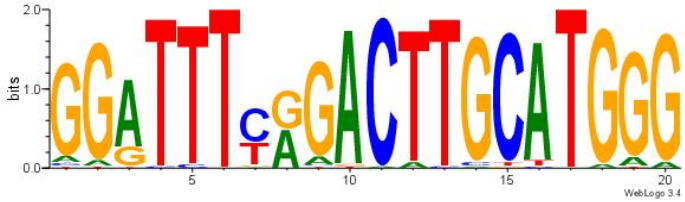

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.138

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
GGGTGCAGGMGGGCTGAGT-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

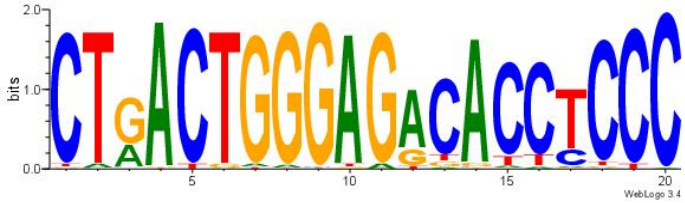

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

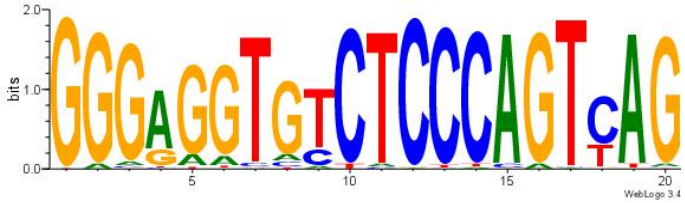

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139034

Alignment:
AGAGCTCTGGCTGGCATCT
ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

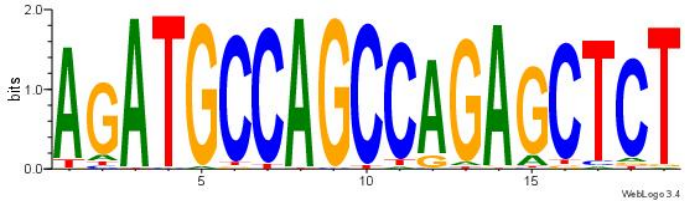

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

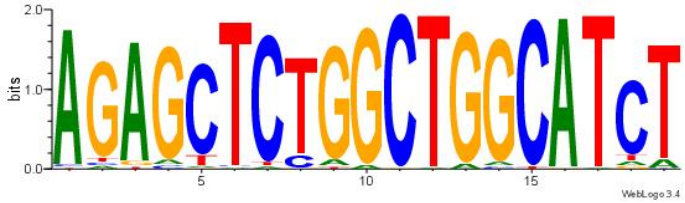

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.139614

Alignment:
GACTGGCAGGCAGCTCCACC
GGGTGCAGGMGGGCTGAGT-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

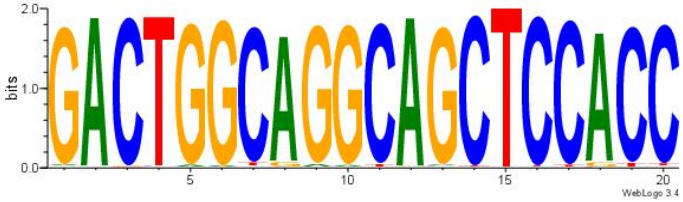

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

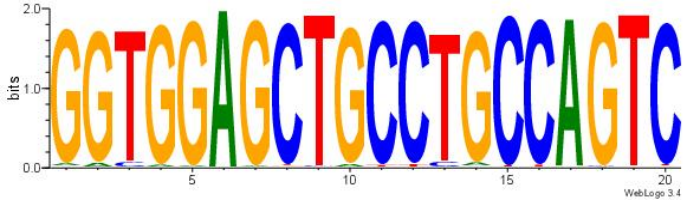

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139924

Alignment:
CCCGAAGCTGCRYRCTCGGT
-GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

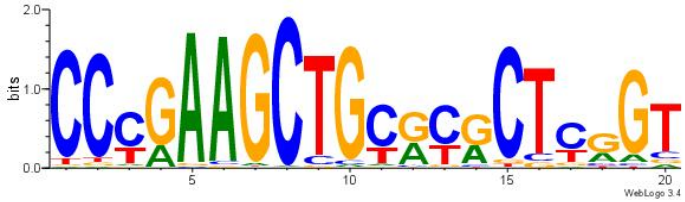

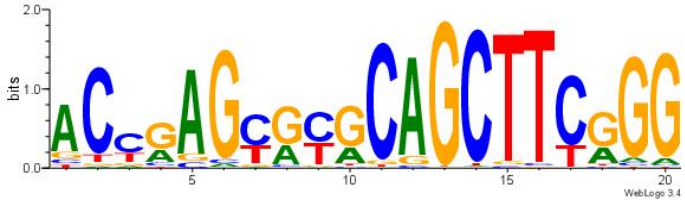

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140302

Alignment:

```
GKCTGTACCCCCATTGTAT
GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

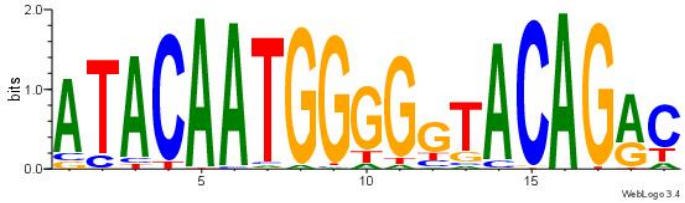

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

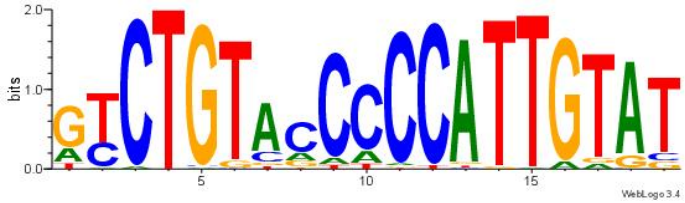

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140625

Alignment:

```
AGCTCCCAGCGTGAGCGACG
-ACTCAGCCCRCCTGCACCC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

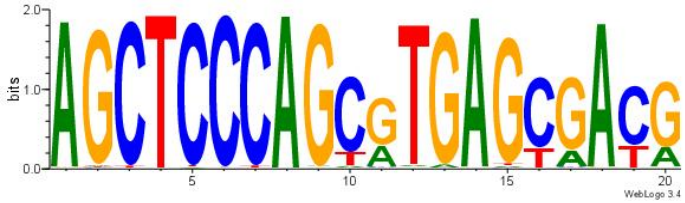

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

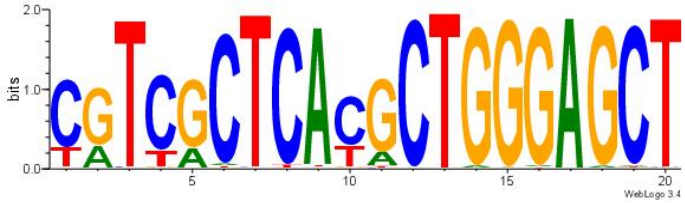

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.141496

Alignment:
GCACATGTAYCCYAGAACTT
ACTCAGCCCRCCTGCACCC-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

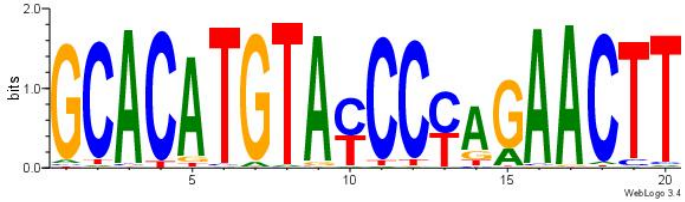

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

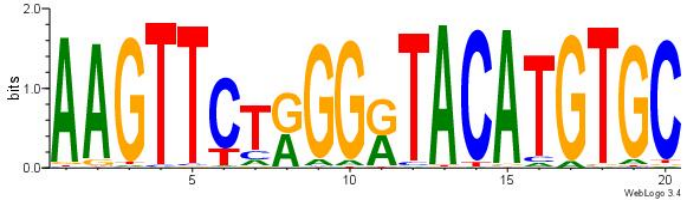

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.142205

Alignment:
GAAGGCAGCTAAGGCCCGGY
-GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

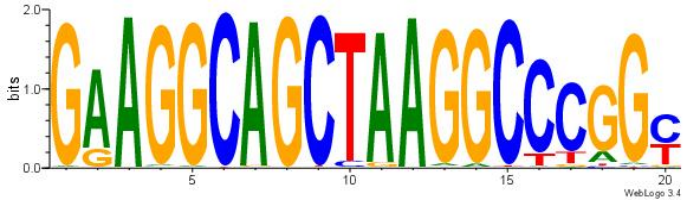

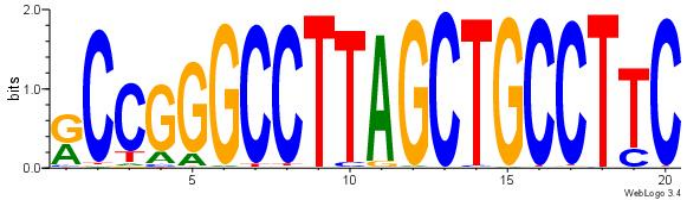

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142878

Alignment:

```
CTGGGCRACAGAGYRAGACY
GGGTGCAGGMGGGCTGAGT-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

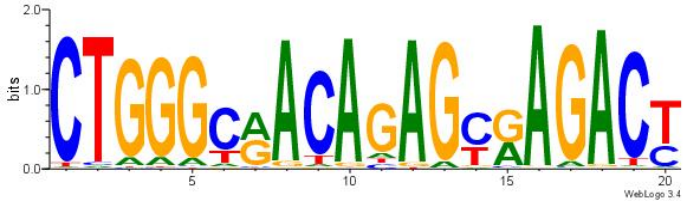

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

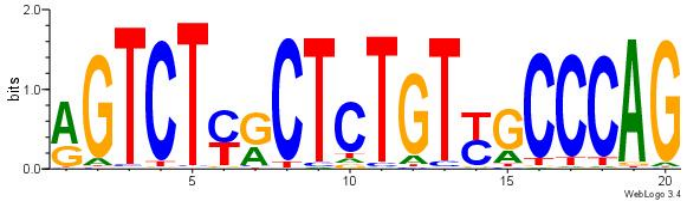

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.143587

Alignment:

```
GGTTCATCTCACTAGGGAGT
-ACTCAGCCCRCCTGCACCC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

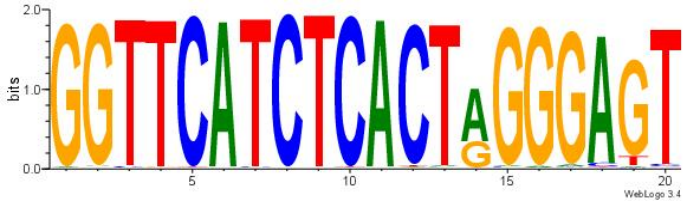

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

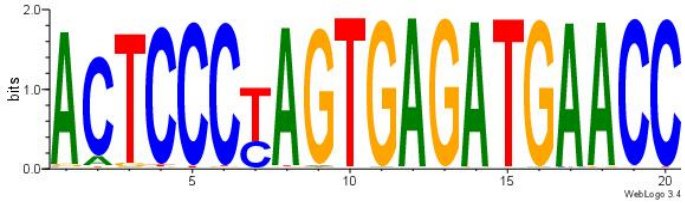

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.143667

Alignment:
ACCTGGAAAATCGGGTCACT
ACTCAGCCCRCCTGCACCC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

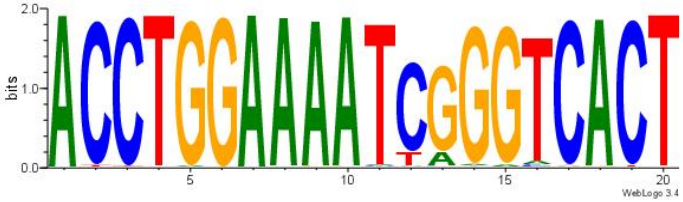

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

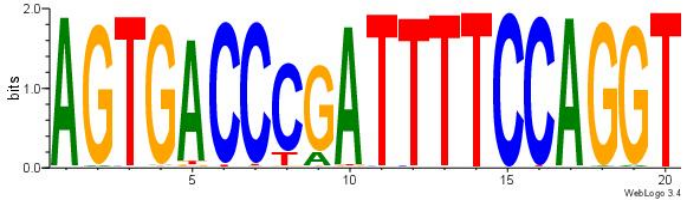

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.144486

Alignment:
GTAGACKGGAGCTGTTCCT
GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

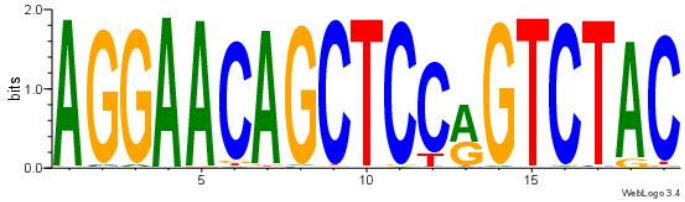

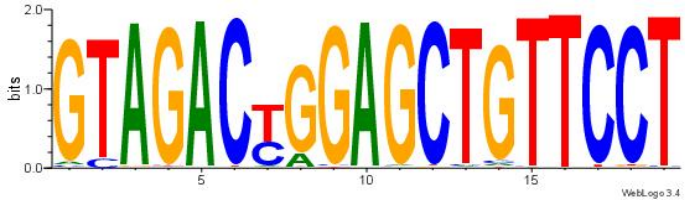

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144523

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

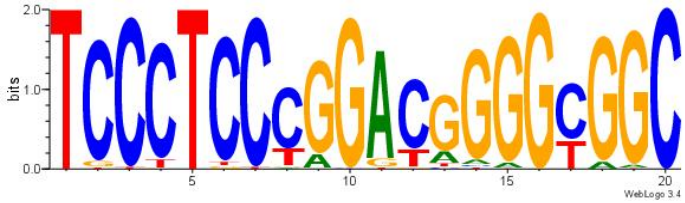

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

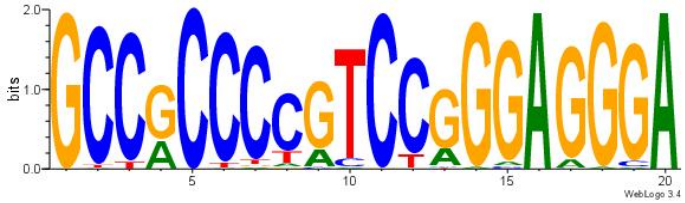

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145214

Alignment:

```
TGGCTTCACCCAGTGGATCC
ACTCAGCCCRCCTGCACCC-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

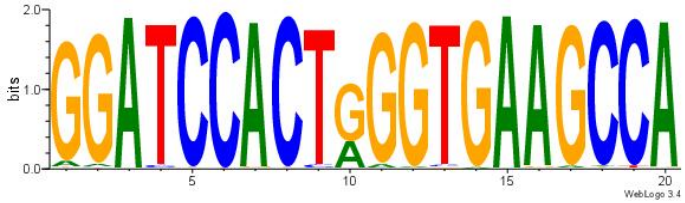

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

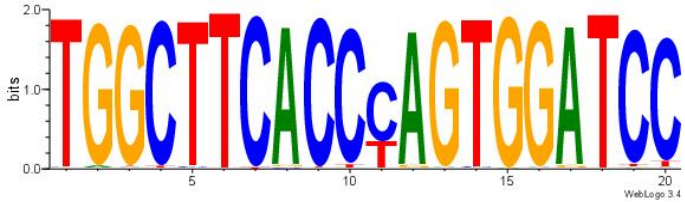

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.145364

Alignment:
CTGGGCTCCTGAGTCTGGTG
-GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

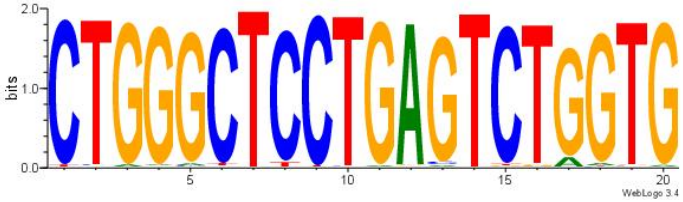

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

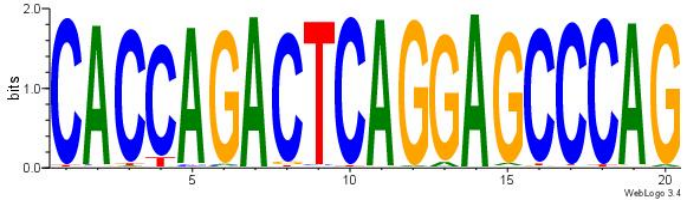

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.145402

Alignment:
CTGGCCCTCAATGGTTAAAC
-GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

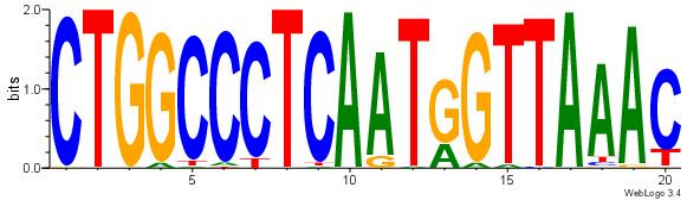

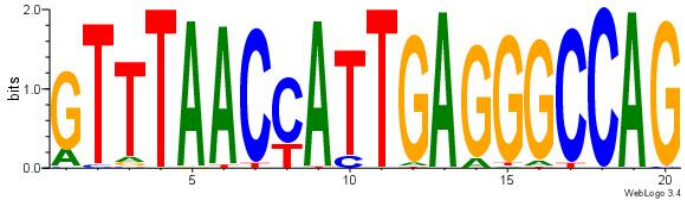

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.145463

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-ACTCAGCCCRCCTGCACCC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

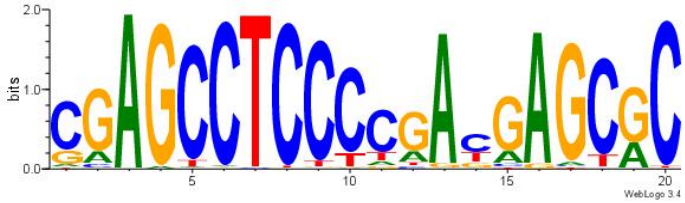

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

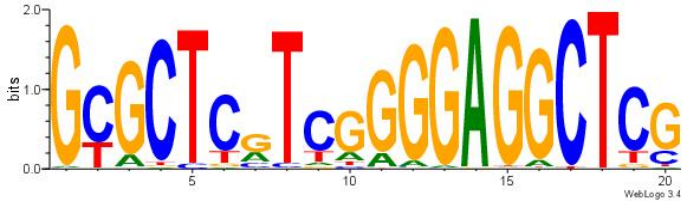

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146595

Alignment:

```
KKCACCTTGATCTTGGACTT
ACTCAGCCCRCCTGCACCC-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

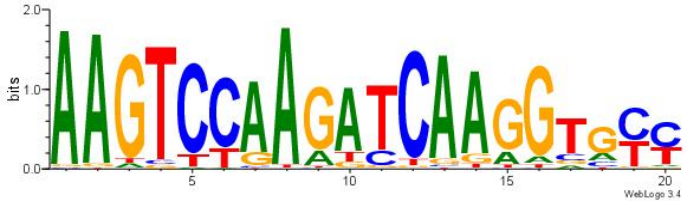

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

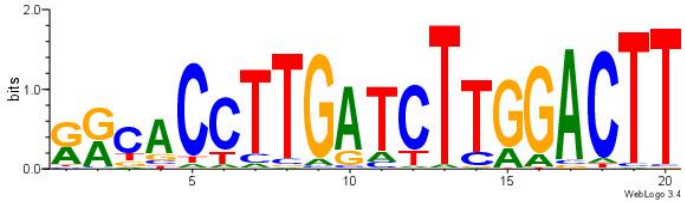

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.14707

Alignment:
AAGACCTTCCAGTGGGACAA
-ACTCAGCCCRCCTGCACCC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

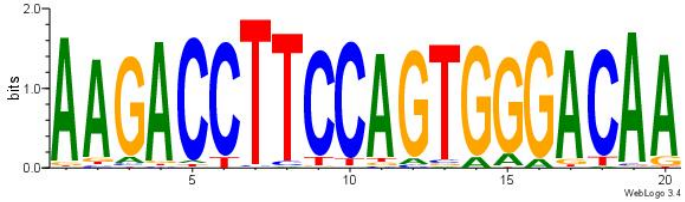

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

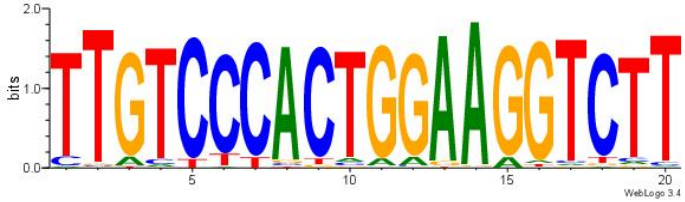

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.147816

Alignment:
GCCGGGRAGAGGCGCTCCT
GGGTGCAGGMGGGCTGAGT

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

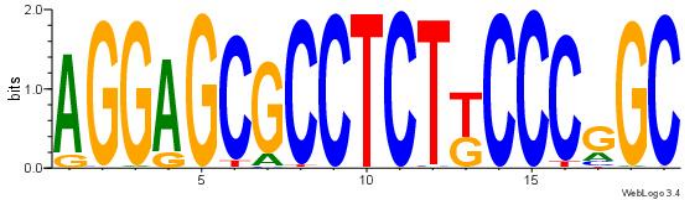

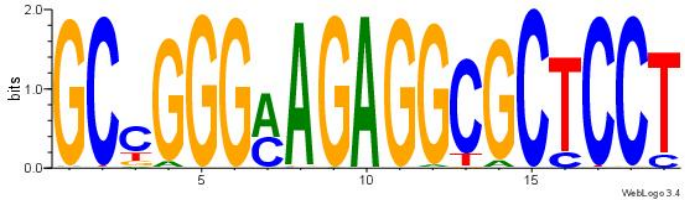

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.147942

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-GGGTGCAGGMGGGCTGAGT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

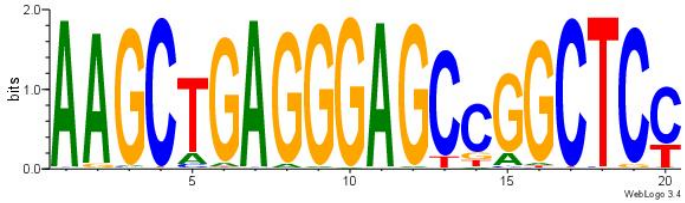

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

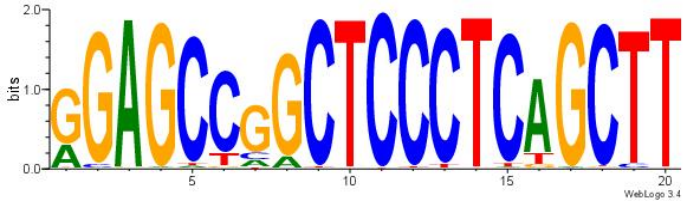

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.147998

Alignment:

```
TTGGTAGGATCCGTGATGCC
-ACTCAGCCCRCCTGCACCC
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

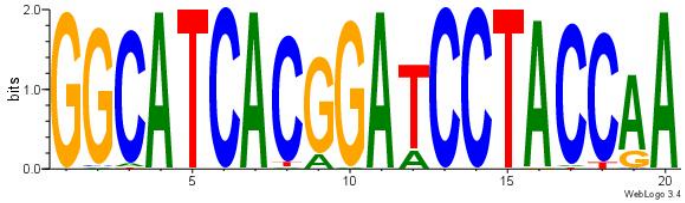

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

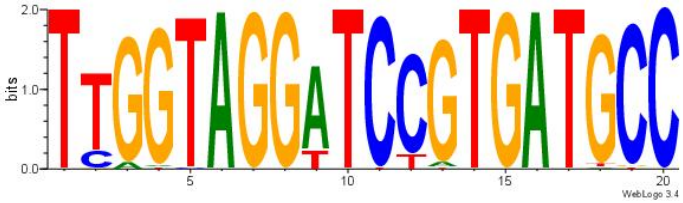

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.148152

Alignment:
GCCTCCTTGAGCTGTGGTGG
GGGTGCAGGMGGGCTGAGT-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

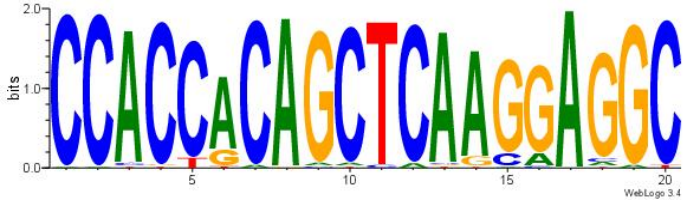

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

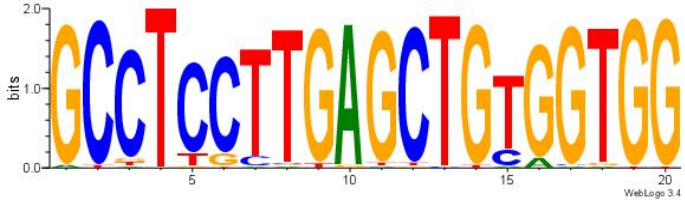

Dataset #: 1 Motif ID: 150 Motif name: Motif 150

Original motif Consensus sequence: ATTGCTAGCACA

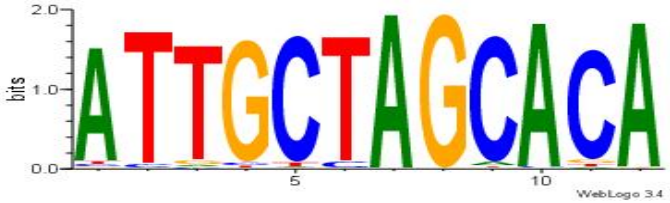

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

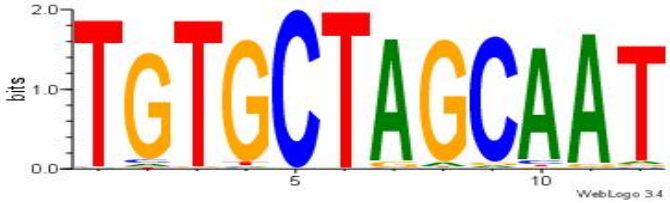

Best Matches for Motif ID 150 (Highest to Lowest)

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0632108

Alignment:

```
ATGATCCAGCAATYCCACTH
-------TGTGCTAGCAAT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

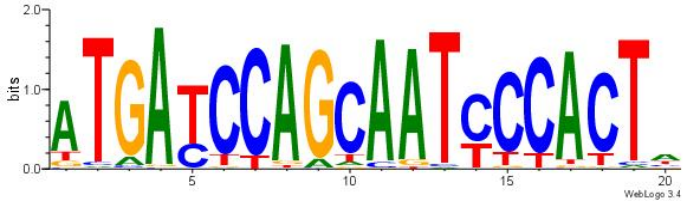

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

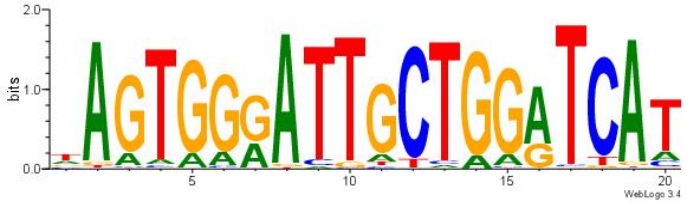

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0772146

Alignment:

```
GACATGAGCTGGCGCTTG
----TGTGCTAGCAAT--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

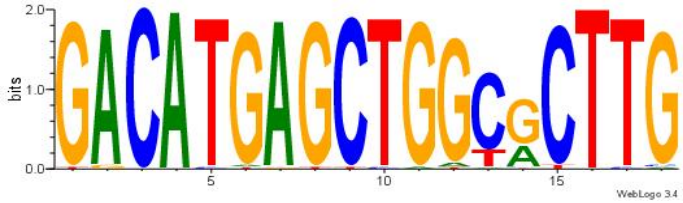

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

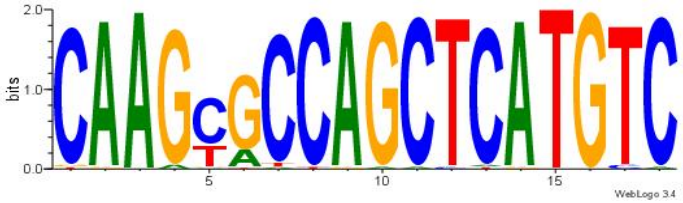

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0823231

Alignment:

```
ATGTTGTAGCATGT
-TGTGCTAGCAAT-
```

Original motif Consensus sequence: ACATGCTACAACAT

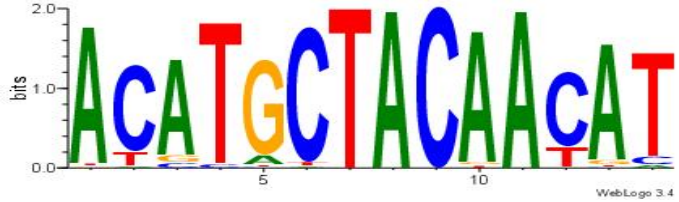

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

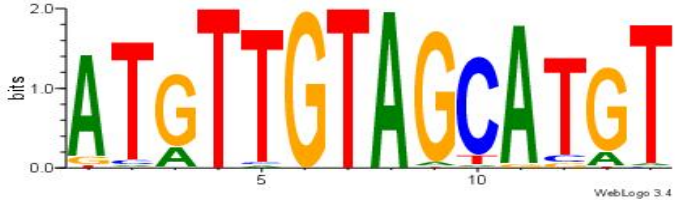

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0825726

Alignment:

```
GAATCCTGGGACAGCCTGT
-ATTGCTAGCACA------
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

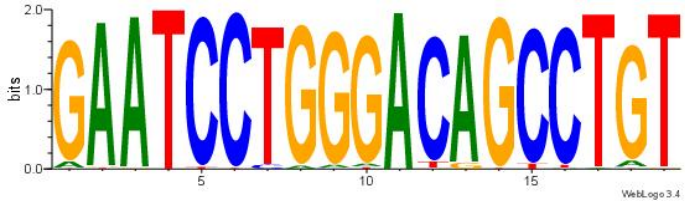

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

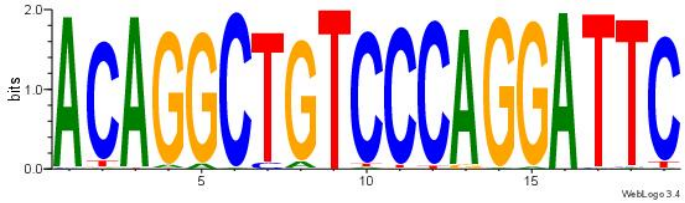

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 12
Similarity score: 0.0836196

Alignment:
TCAATGGGCTCCCAAATG
----TGTGCTAGCAAT--

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

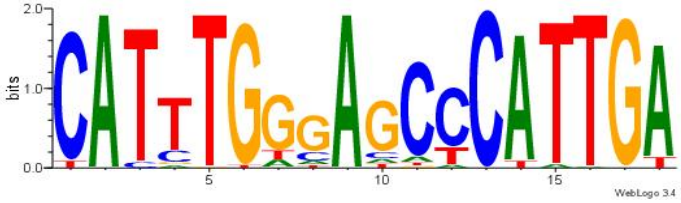

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

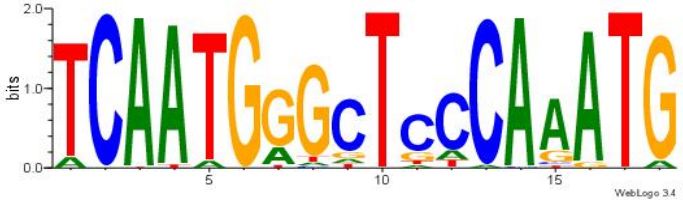

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0836236

Alignment:
CCTTGGCCAGCCCAGAAAG
--ATTGCTAGCACA-----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

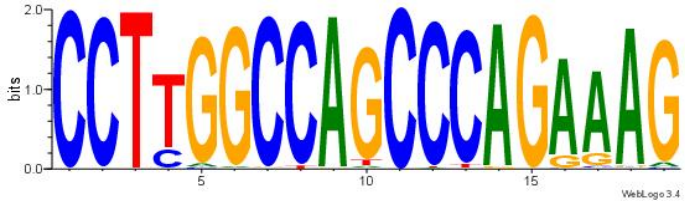

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

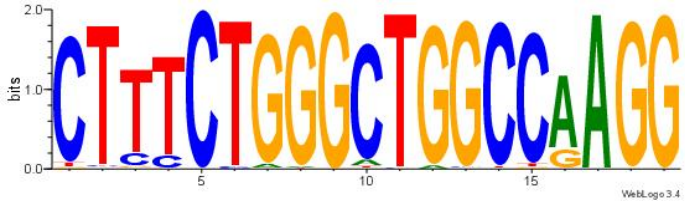

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0847137

Alignment:

```
AATCGCTTGAACC
-ATTGCTAGCACA
```

Original motif Consensus sequence: AATCGCTTGAACC

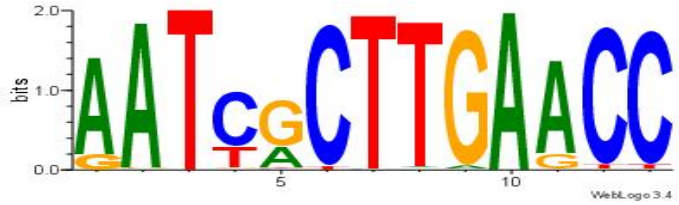

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

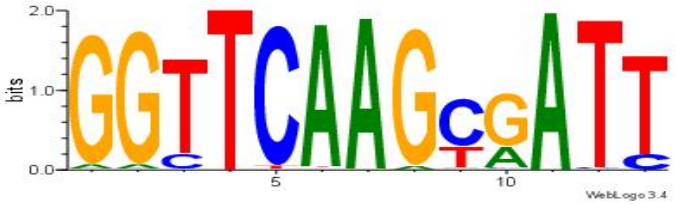

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0858377

Alignment:

```
GGGATTGTAAATACACCAAT
-----ATTGCTAGCACA---
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

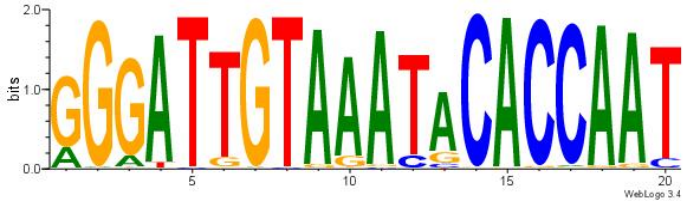

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 12
Similarity score: 0.0858766

Alignment:
GGTGCCAGCTGT
TGTGCTAGCAAT

Original motif Consensus sequence: ACAGCTGGCACC

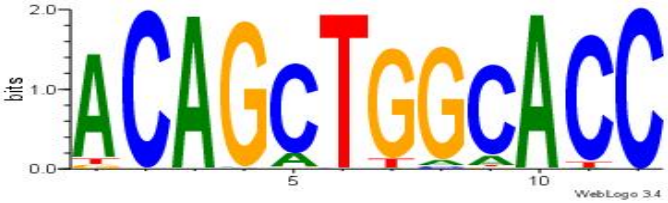

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

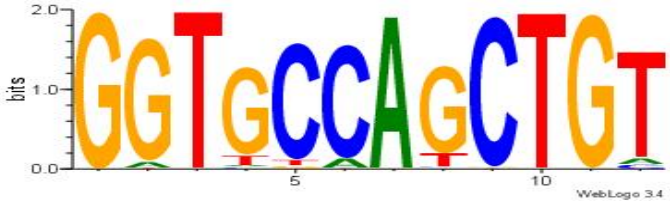

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0860294

Alignment:
CCCTGCTAGAACCTCCAA
-ATTGCTAGCACA-----

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

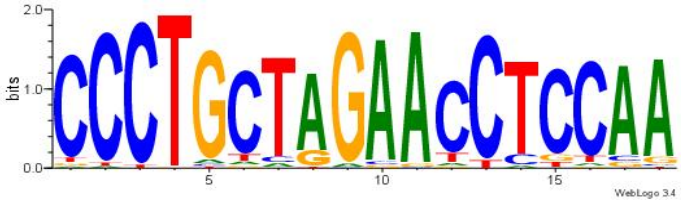

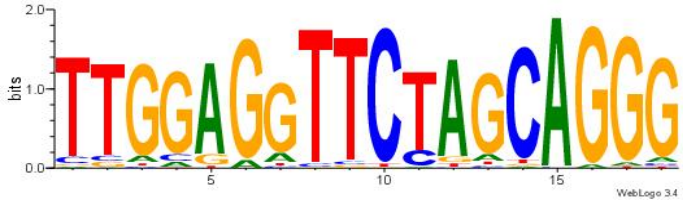

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0875005

Alignment:

```
GGTGGGAGAAATACCT
TGTGCTAGCAAT----
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

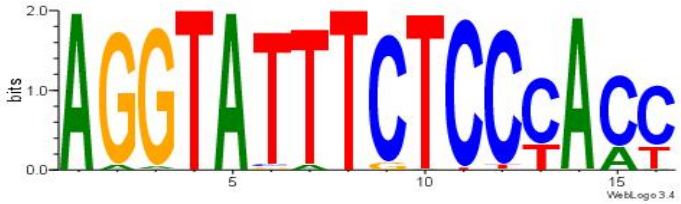

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

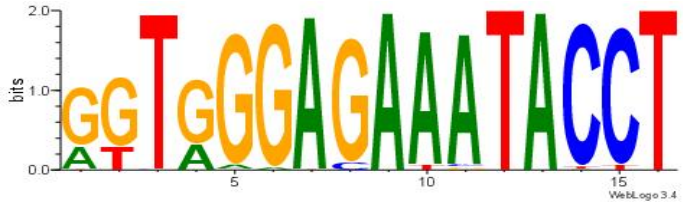

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0904958

Alignment:

```
AAAATGTGGTAYATAYAYAC
----TGTGCTAGCAAT----
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

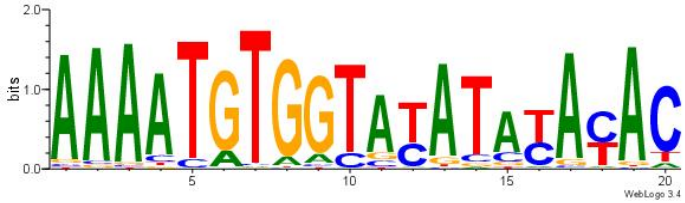

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

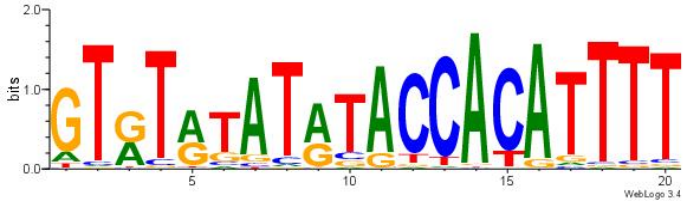

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0935219

Alignment:
TTTGTTATAGCAG
ATTGCTAGCACA-

Original motif Consensus sequence: CTGCTATAACAAA

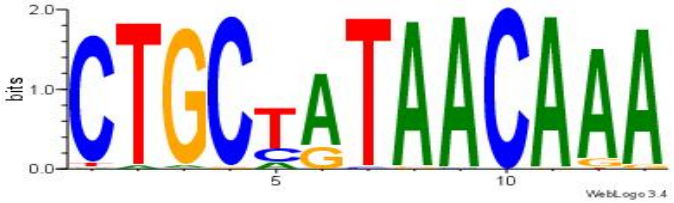

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0967818

Alignment:
GMTTAGCTCCCACTTA
--TGTGCTAGCAAT--

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

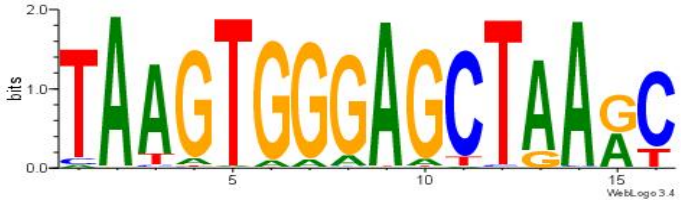

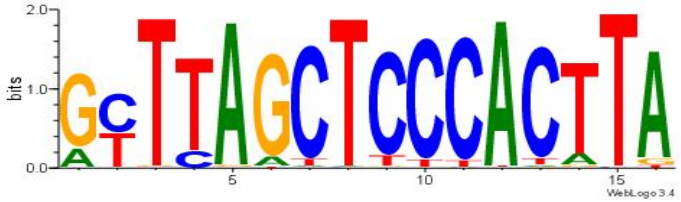

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0968121

Alignment:

```
AGAAATCGAGCRCAGCGCCG
--ATTGCTAGCACA------
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

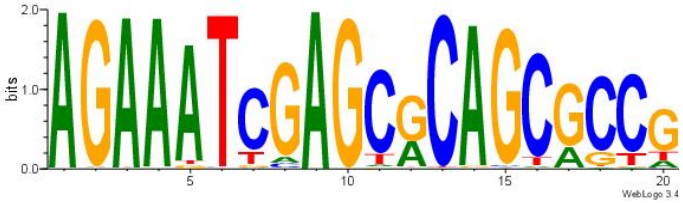

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

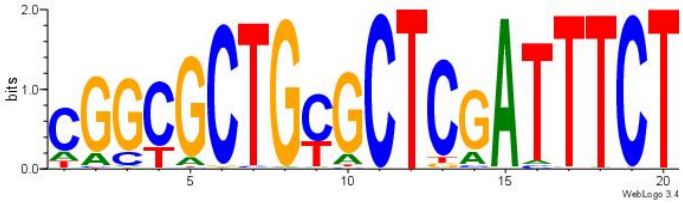

Dataset #:	1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0973801

Alignment:

```
CTCCTGACCTCGTGATC
----TGTGCTAGCAAT-
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

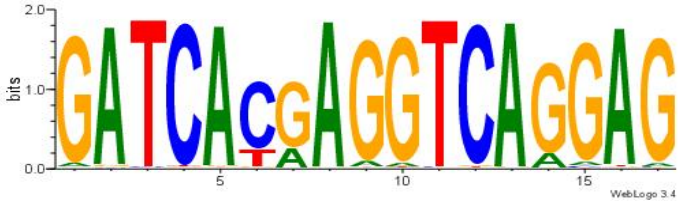

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

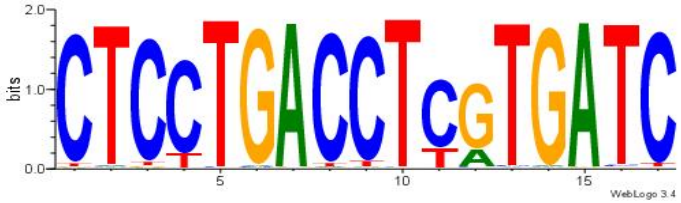

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0977015

Alignment:
CAGACTGCCTCCTCAA
---ATTGCTAGCACA-

Original motif Consensus sequence: CAGACTGCCTCCTCAA

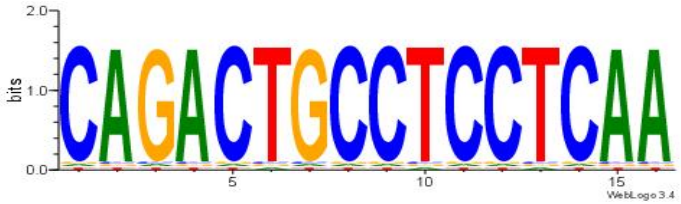

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

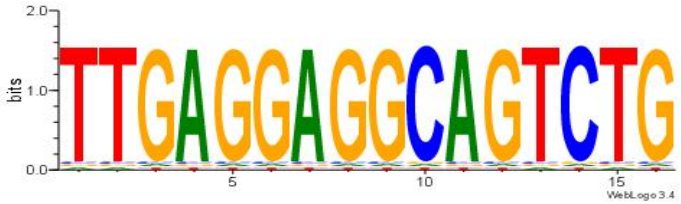

Dataset #: 1
Motif ID: 274
Motif name: Motif 274
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0981043

Alignment:
TTTCCTTGACCAG
ATTGCTAGCACA-

Original motif Consensus sequence: CTGGTCAAGGAAA

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

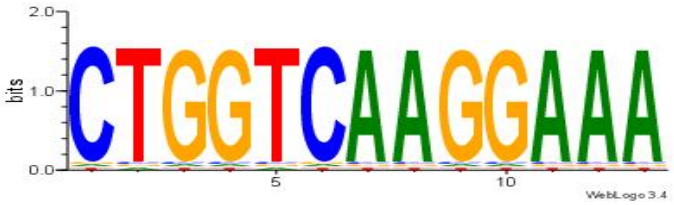

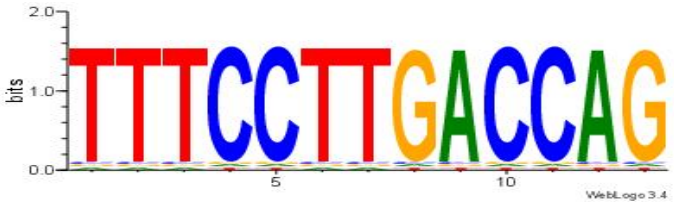

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0983916

Alignment:

```
AGTGTTTCCAAMCTGCT
TGTGCTAGCAAT-----
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

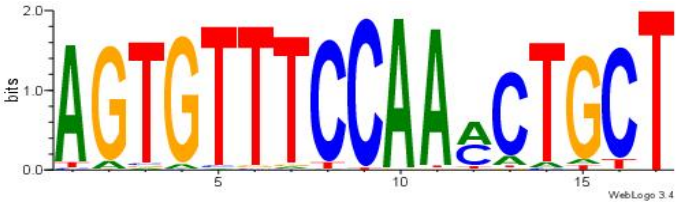

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

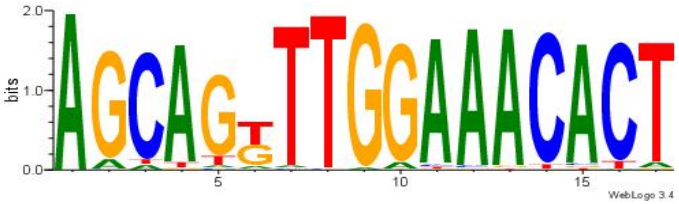

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0997821

Alignment:

```
AGAGCTCTGGCTGGCATCT
------ATTGCTAGCACA-
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

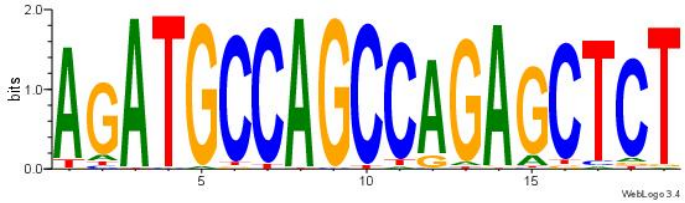

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

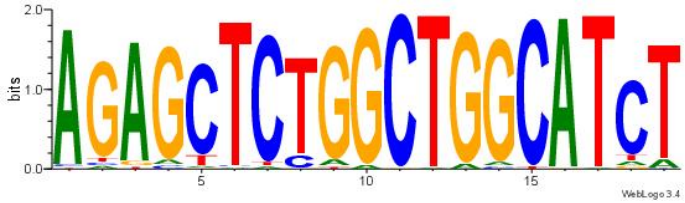

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.100452

Alignment:
AATGAGTTAAGACTTTG
--TGTGCTAGCAAT---

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

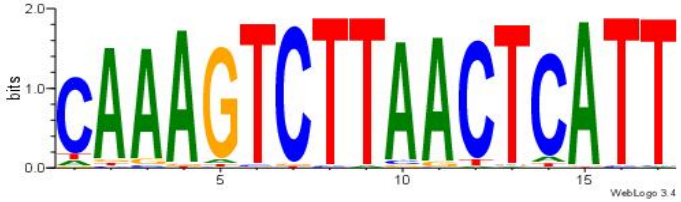

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.100834

Alignment:
CATTTCCAWCTGAGGTAC
-ATTGCTAGCACA-----

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

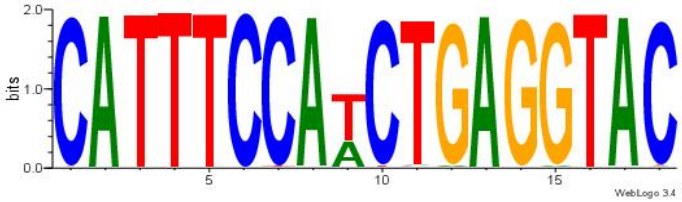

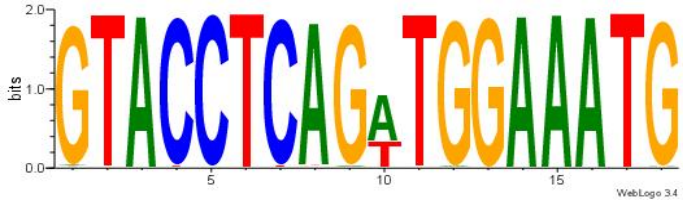

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.100913

Alignment:

```
AAAATCACAAGCATTCCTAT
---ATTGCTAGCACA-----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

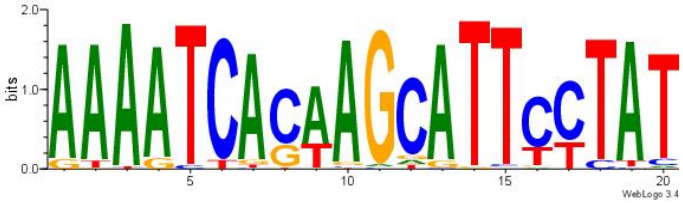

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

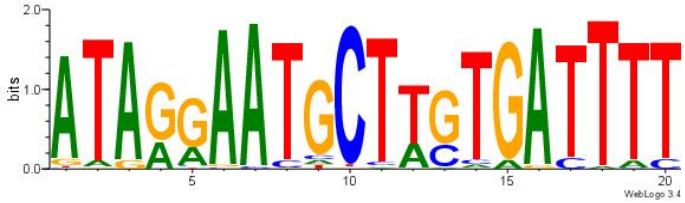

Dataset #:	1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.101066

Alignment:

```
TTTTATAGGATTTGGG
TGTGCTAGCAAT----
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

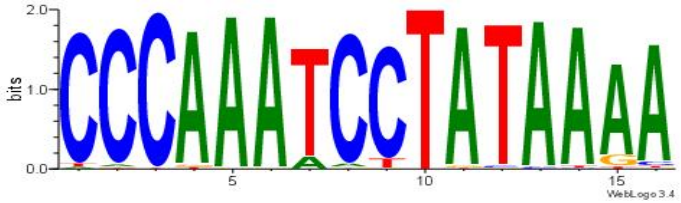

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

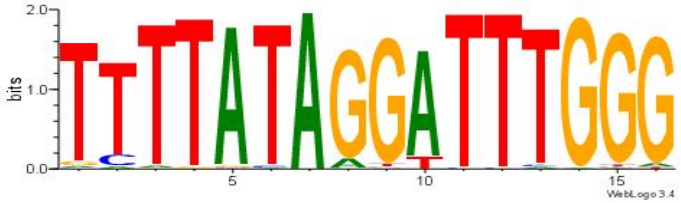

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.10164

Alignment:
GGCACTGCTGGGGGACCCAG
-----ATTGCTAGCACA---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

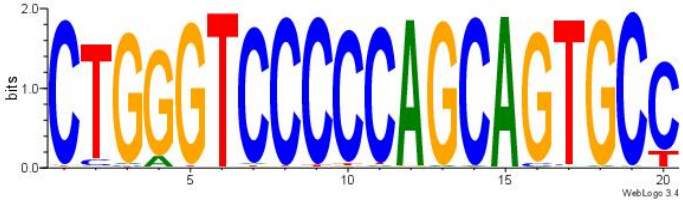

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

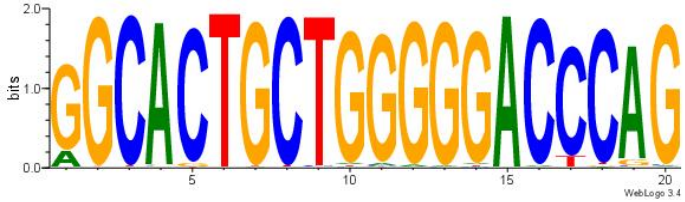

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.102225

Alignment:
GKCTGTACCCCCATTGTAT
---TGTGCTAGCAAT----

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

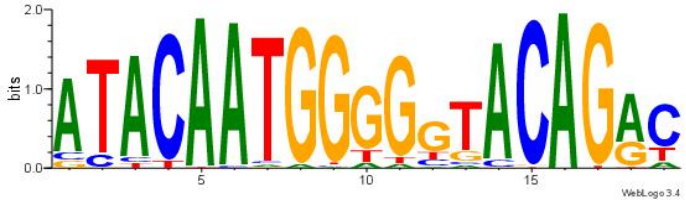

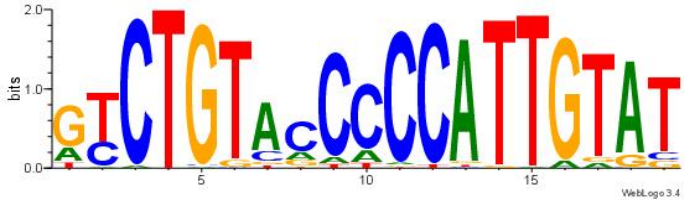

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.102396

Alignment:

```
GCCAATTTCTCCCATTTGGA
----ATTGCTAGCACA----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

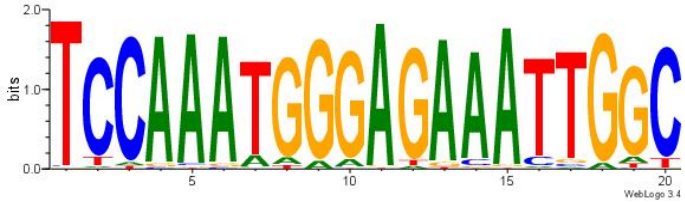

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

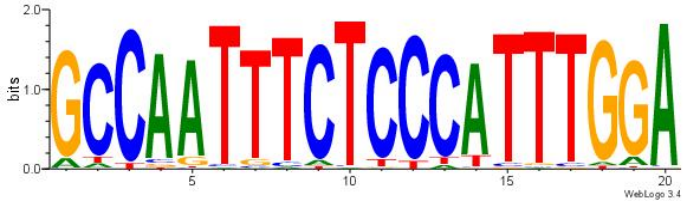

Dataset #:	1

Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.102466

Alignment:

```
ACTTTCAGGCATAACA
-ATTGCTAGCACA---
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

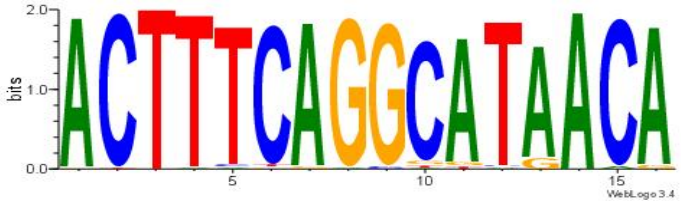

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

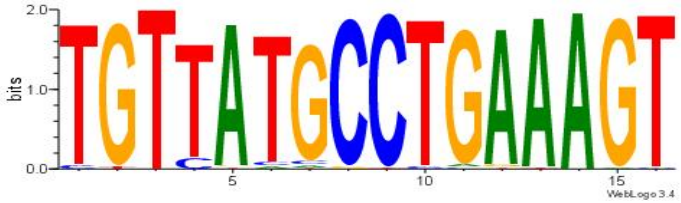

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.102928

Alignment:
TGTATTAGTCMMTT
TGTGCTAGCAAT--

Original motif Consensus sequence: AAYRGACTAATACA

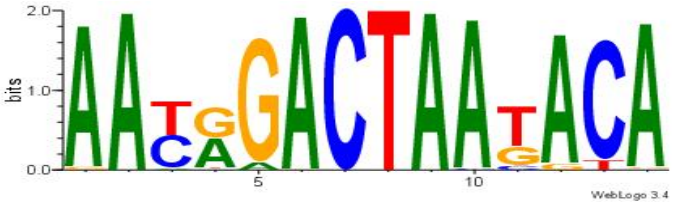

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

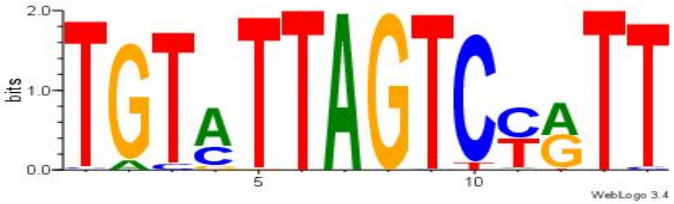

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.103137

Alignment:
AAGCAGGGCGAGGCATTGCC
----TGTGCTAGCAAT----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

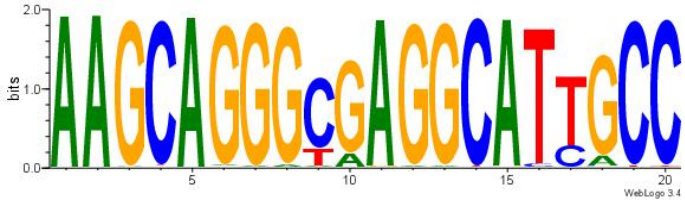

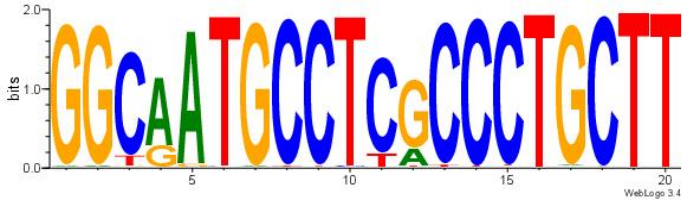

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.104909

Alignment:

```
KKCACCTTGATCTTGGACTT
-------TGTGCTAGCAAT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

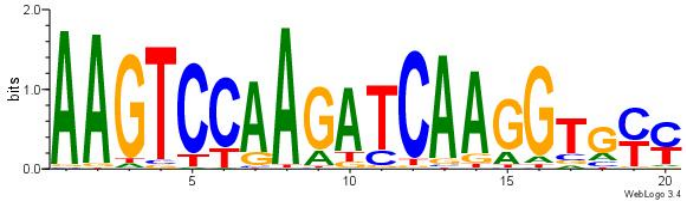

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

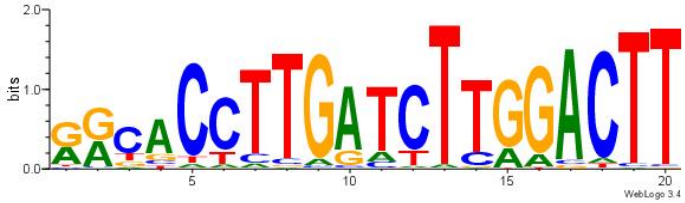

Dataset #:	1

Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.104944

Alignment:

```
CATCTGGCAGCCCA
--ATTGCTAGCACA
```

Original motif Consensus sequence: CATCTGGCAGCCCA

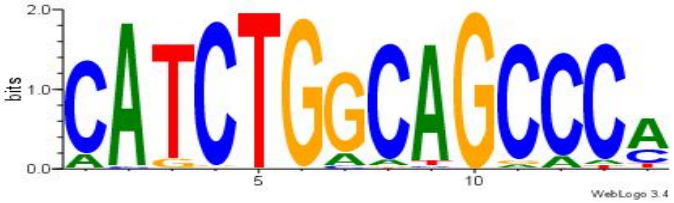

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

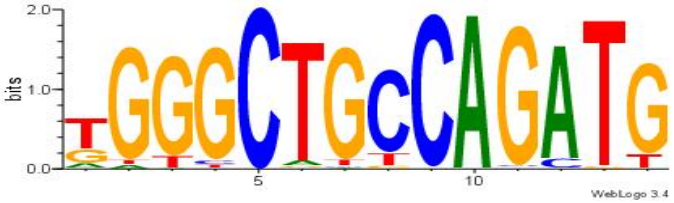

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.106249

Alignment:
ATTGATMKCCAGGGTTGATT
ATTGCTAGCACA--------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

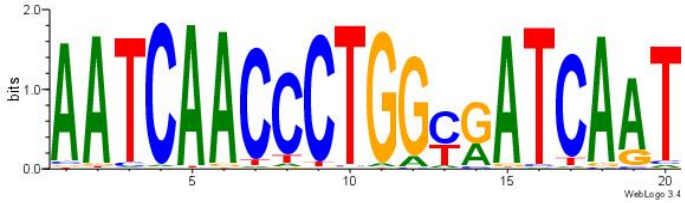

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

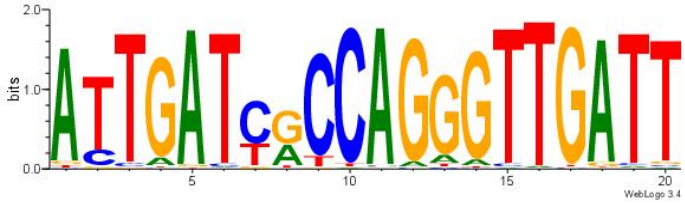

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.109197

Alignment:
GCACATGTAYCCYAGAACTT
-------TGTGCTAGCAAT-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

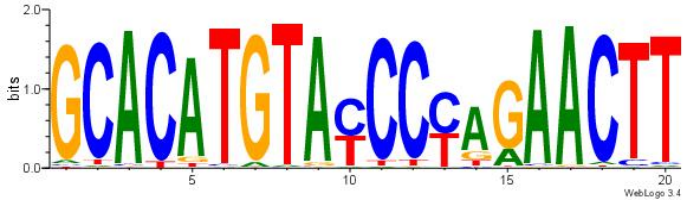

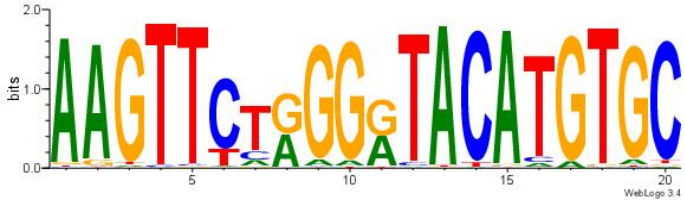

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.109458

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
ATTGCTAGCACA--------
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

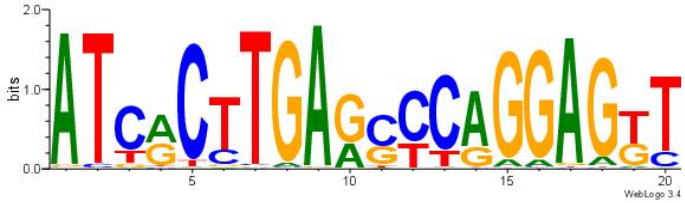

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

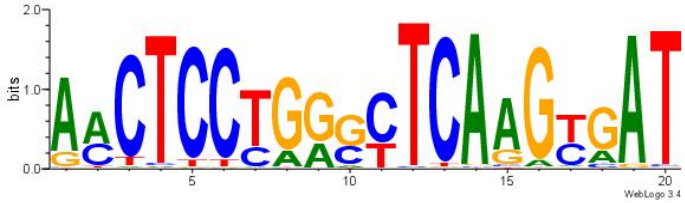

Dataset #: 1

Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.110032

Alignment:

```
GTAGCTGGGAYTACA
ATTGCTAGCACA---
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

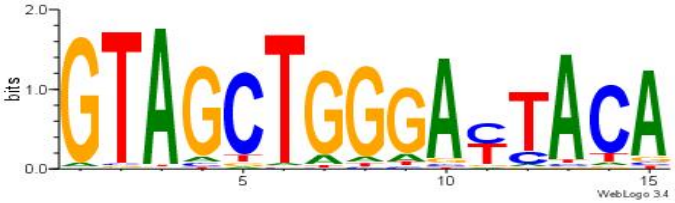

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

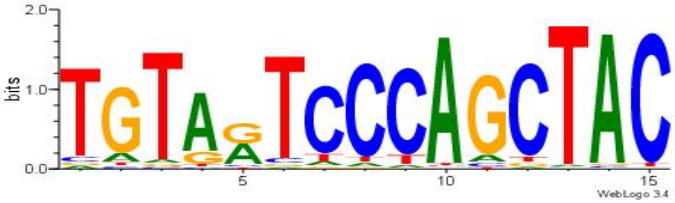

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.110425

Alignment:
TCACKMGGGAAGCGCAAG
--ATTGCTAGCACA----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

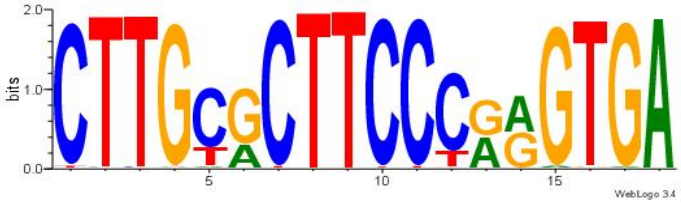

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

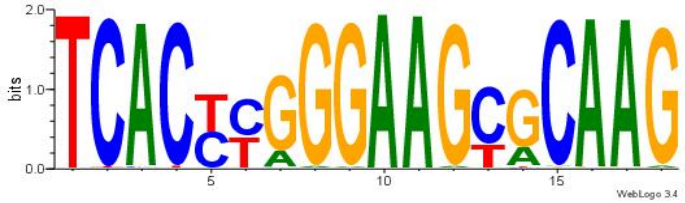

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.110507

Alignment:
AWTKKTGGTTKCCAGKGGCT
---TGTGCTAGCAAT-----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

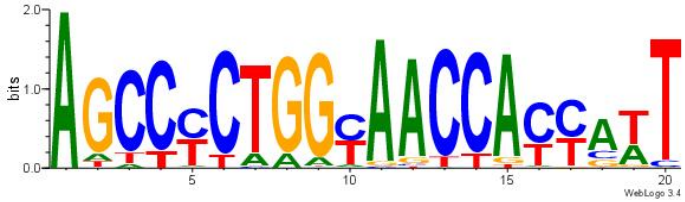

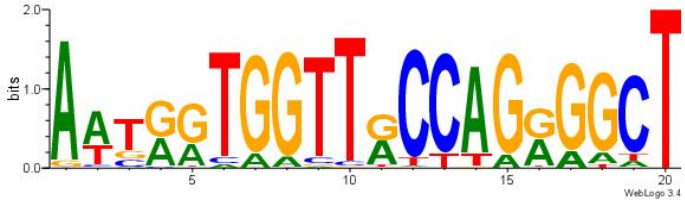

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.110873

Alignment:

```
AGTGAGAACATRYRRTRTTT
--------TGTGCTAGCAAT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

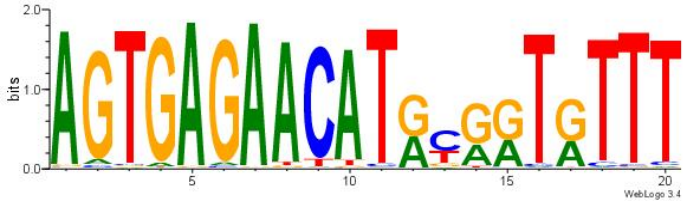

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

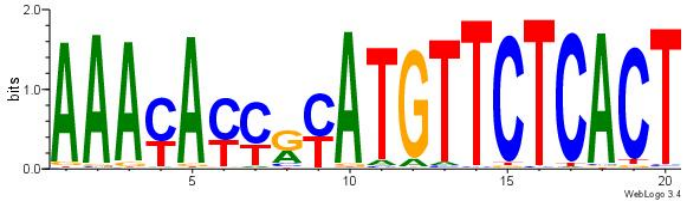

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.111002

Alignment:

```
CCTGCCATTGCYSAGGCTTG
------ATTGCTAGCACA--
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

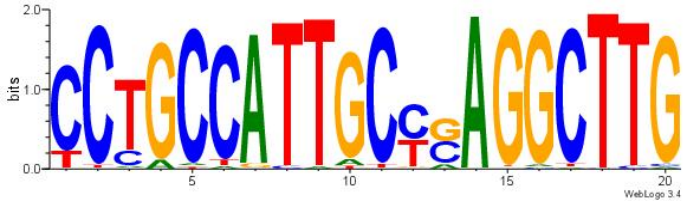

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

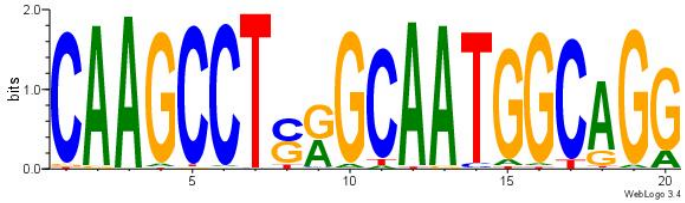

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.111195

Alignment:
ATGGCCTATGACYGSTTTG
-TGTGCTAGCAAT------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

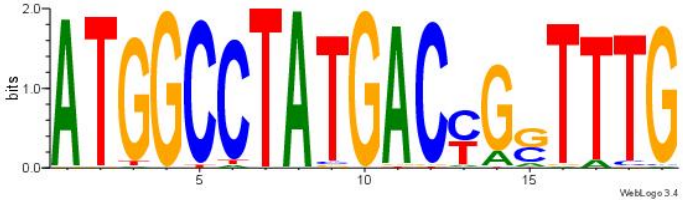

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

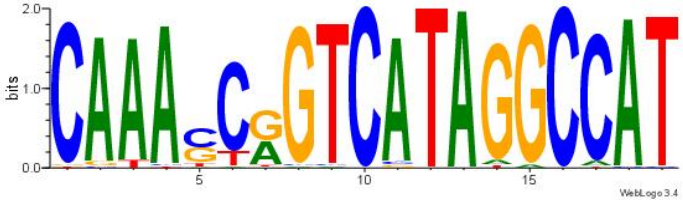

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.111269

Alignment:
GTGTGCGAATAGGTGT
-TGTGCTAGCAAT---

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

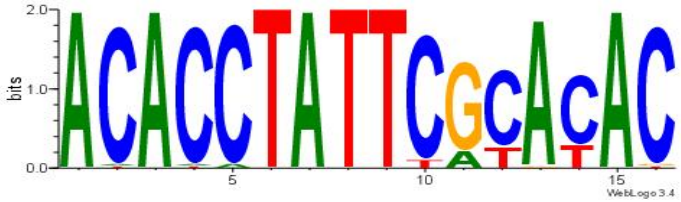

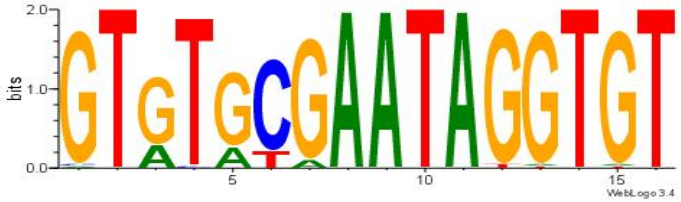

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.111794

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-----ATTGCTAGCACA---
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

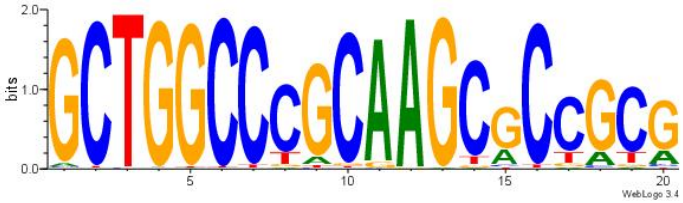

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

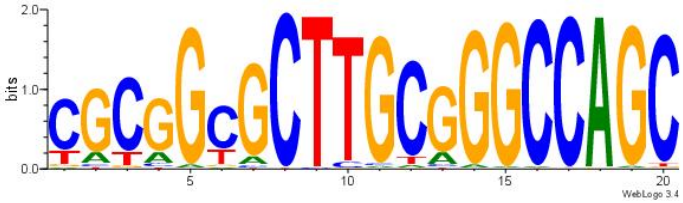

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.112545

Alignment:

```
TGHCCTGCKCCCACTGTCT
---TGTGCTAGCAAT----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

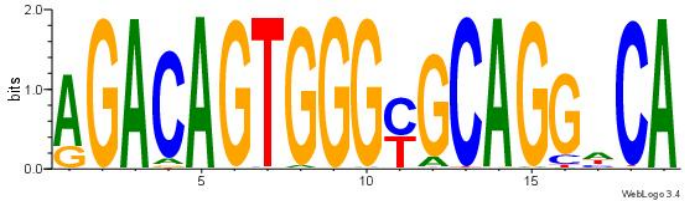

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

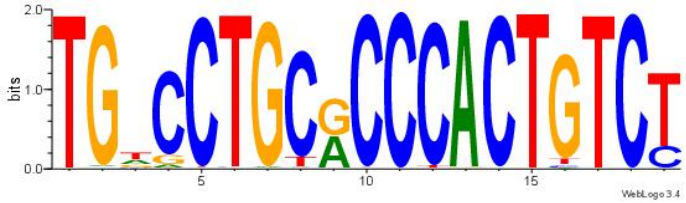

Dataset #:	1
Motif ID:	282
Motif name:	Motif 282
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.112679

Alignment:
GTCTCTACTAAAA
ATTGCTAGCACA-

Original motif Consensus sequence: GTCTCTACTAAAA

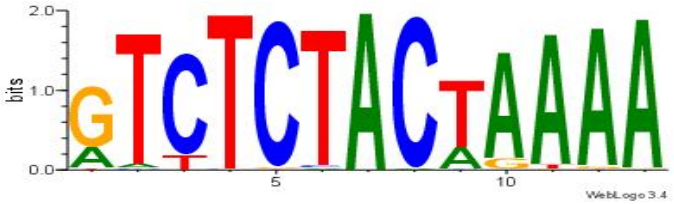

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

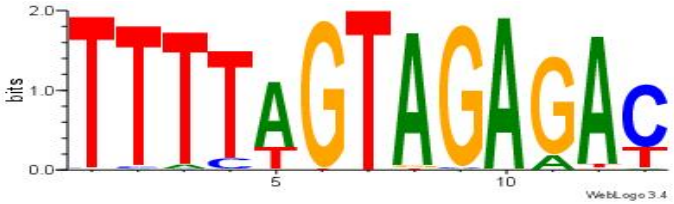

Dataset #: 1
Motif ID: 248
Motif name: Motif 248
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.115

Alignment:
TTTGTACCCATTA
TGTGCTAGCAAT-

Original motif Consensus sequence: TAATGGGTACAAA

Reverse complement motif Consensus sequence: TTTGTACCCATTA

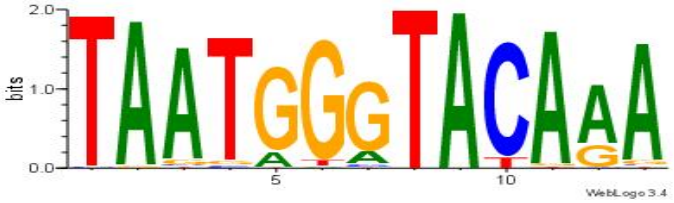

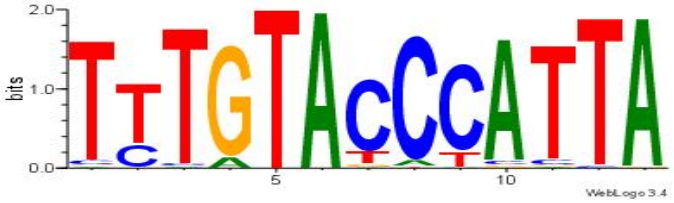

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.115124

Alignment:

```
AAAGAGAGTCAGCGAAG
----ATTGCTAGCACA-
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

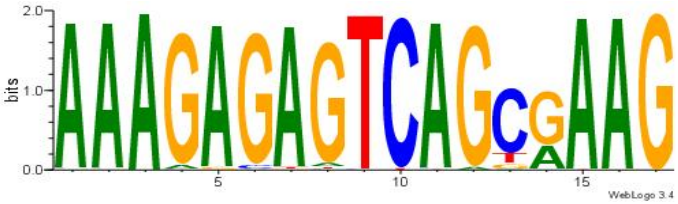

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

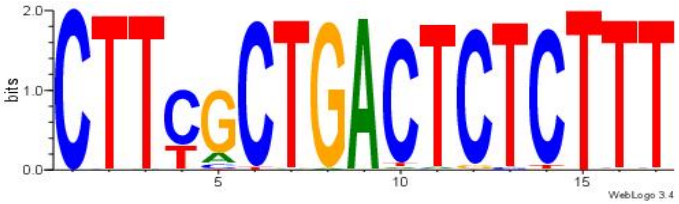

Dataset #: 1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.115489

Alignment:

```
TGATACCCAGGCAAACAG
--ATTGCTAGCACA----
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

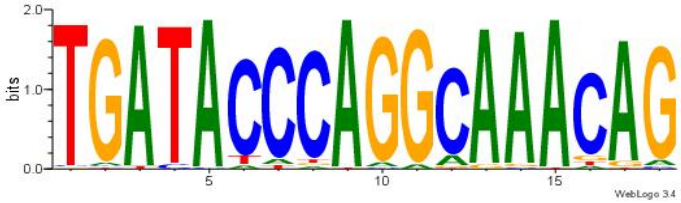

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

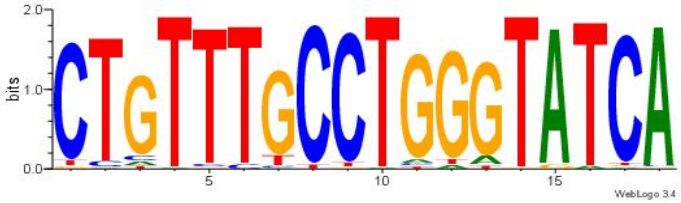

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.117013

Alignment:
AGCTCMKCCTCCTGTCAGAT
-------ATTGCTAGCACA-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

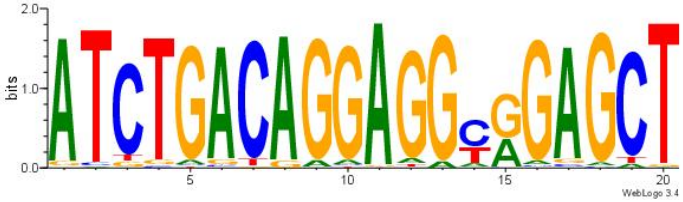

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

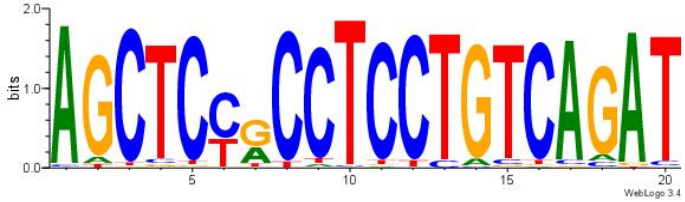

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 12
Similarity score: 0.117115

Alignment:
GGGAGGTGTCTCCCAGTCAG
--------TGTGCTAGCAAT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

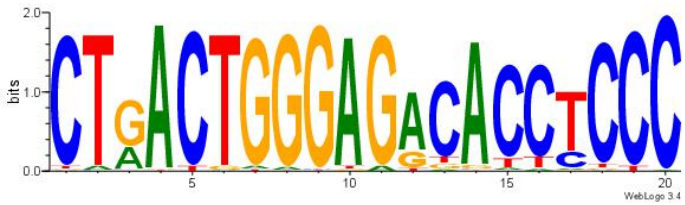

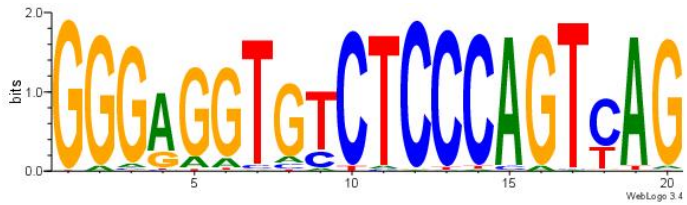

Dataset #: 1 **Motif ID: 151** **Motif name: Motif 151**

Original motif Consensus sequence: CATTGTAGB

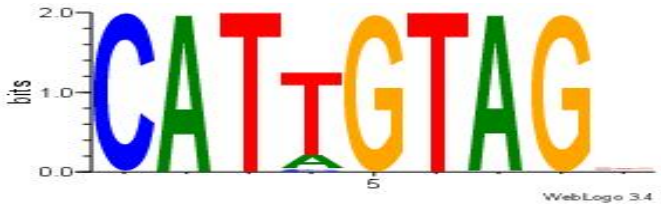

Reverse complement motif Consensus sequence: BCTACAATG

Best Matches for Motif ID 151 (Highest to Lowest)

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0584909

Alignment:

```
ACATGCTACAACAT
----BCTACAATG-
```

Original motif Consensus sequence: ACATGCTACAACAT

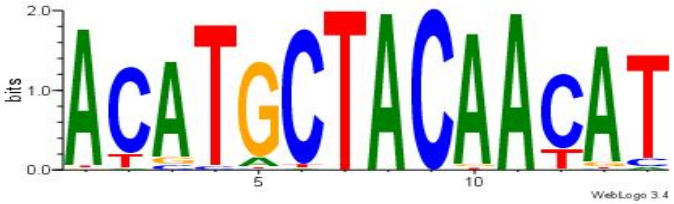

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

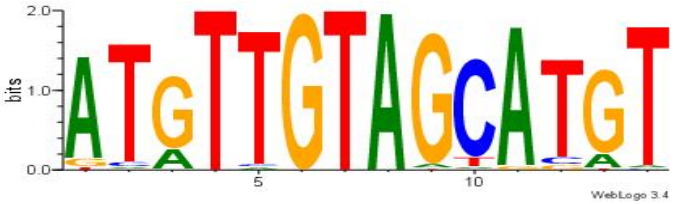

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0645319

Alignment:

```
CCGCTGCACTGTGGGAGCCC
------CATTGTAGB-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

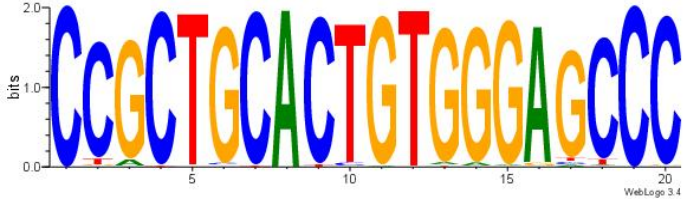

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

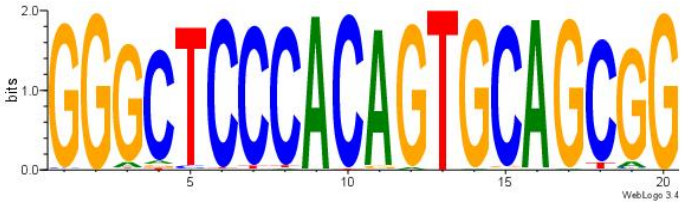

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0647318

Alignment:

```
GGGATTGTAAATACACCAAT
---------CATTGTAGB--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

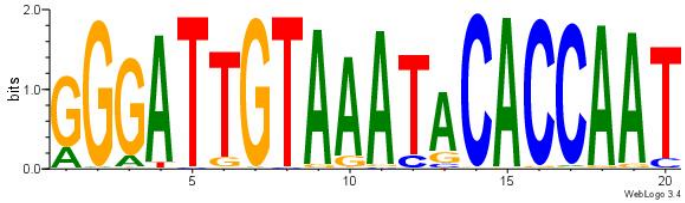

Dataset #:	1
Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 9
Similarity score: 0.0674469

Alignment:
GTCATCTCCTATG
----BCTACAATG

Original motif Consensus sequence: CATAGGAGATGAC

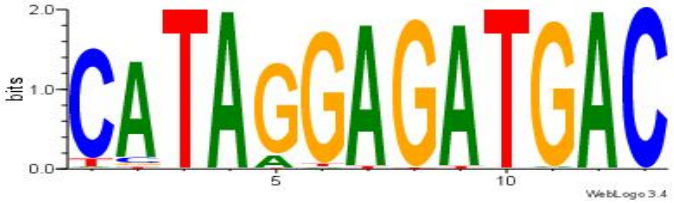

Reverse complement motif Consensus sequence: GTCATCTCCTATG

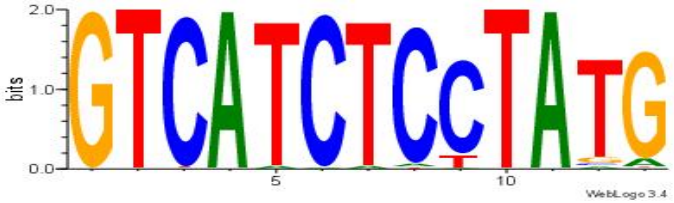

Dataset #: 1
Motif ID: 258
Motif name: Motif 258
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 9
Similarity score: 0.0683218

Alignment:
CCACCAACAGTGTAY
---BCTACAATG---

Original motif Consensus sequence: CCACCAACAGTGTAY

Reverse complement motif Consensus sequence: MTACACTGTTGGT

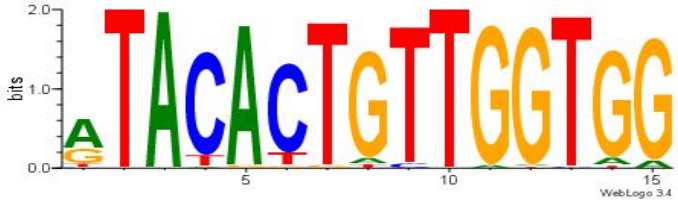

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0692025

Alignment:

```
CATTCTGGGGTCTGGAGGAY
CATTGTAGB-----------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

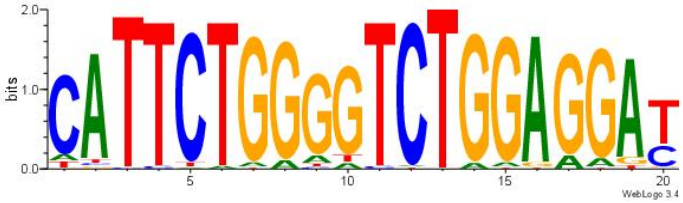

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

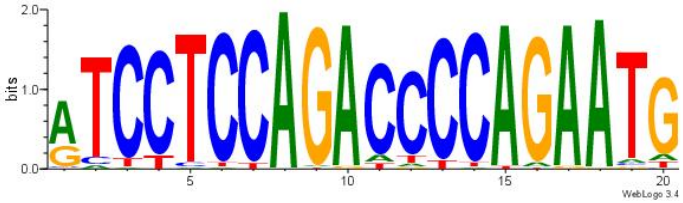

Dataset #:	1

Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0700312

Alignment:

```
GCTTCCATGTG
BCTACAATG--
```

Original motif Consensus sequence: CACATGGAAGC

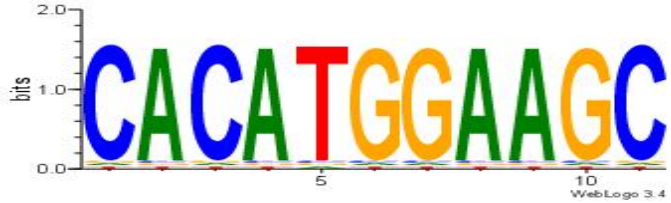

Reverse complement motif Consensus sequence: GCTTCCATGTG

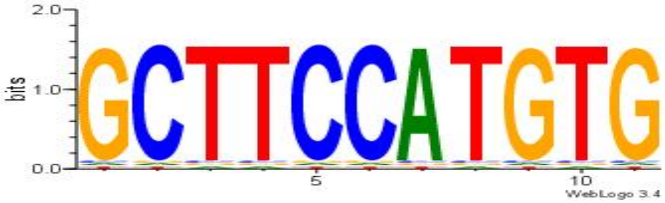

Dataset #:	1
Motif ID:	300
Motif name:	Motif 300
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.072984

Alignment:
TCTGTAAAATG
--BCTACAATG

Original motif Consensus sequence: CATTTTACAGA

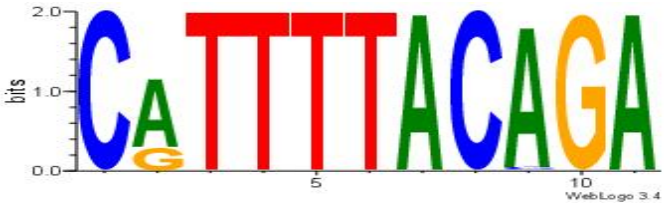

Reverse complement motif Consensus sequence: TCTGTAAAATG

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0740322

Alignment:
KCAGTGTACACTGM
----BCTACAATG-

Original motif Consensus sequence: RCAGTGTACACTGY

Reverse complement motif Consensus sequence: KCAGTGTACACTG

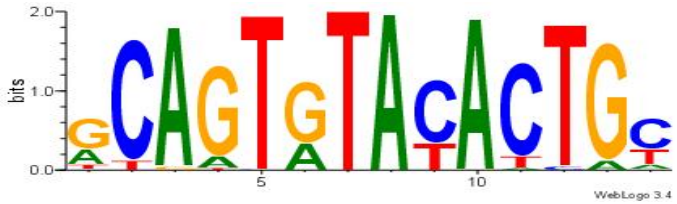

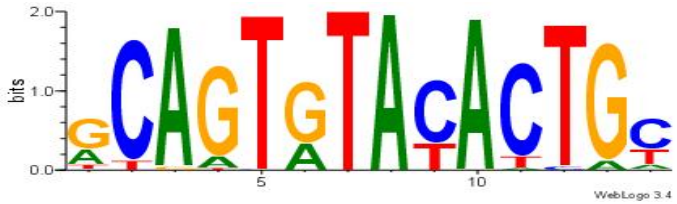

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0743572

Alignment:

```
AGGGCCTTTGCASWTGC
-----CATTGTAGB---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

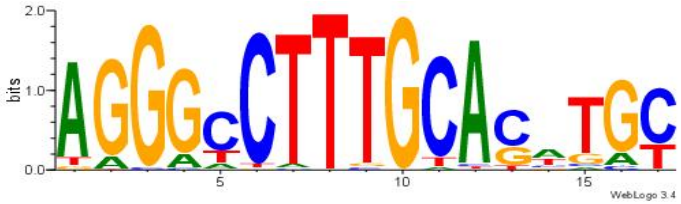

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

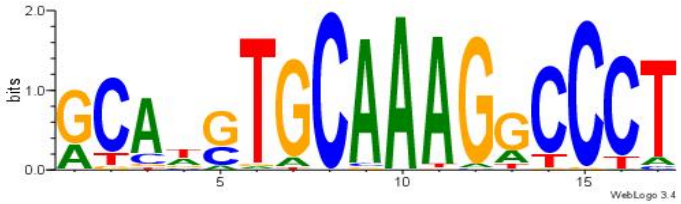

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0749555

Alignment:

```
CTGGCCCTCAATGGTTAAAC
----BCTACAATG-------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

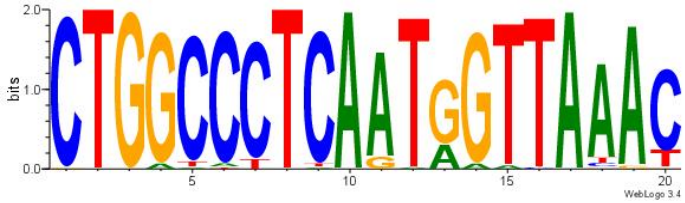

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

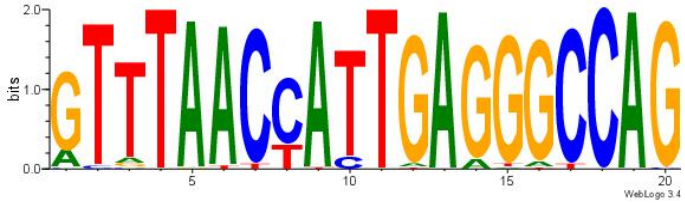

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9

Similarity score: 0.0751859

Alignment:
CAAGCCTSKGCAATGGCAGG
------BCTACAATG-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

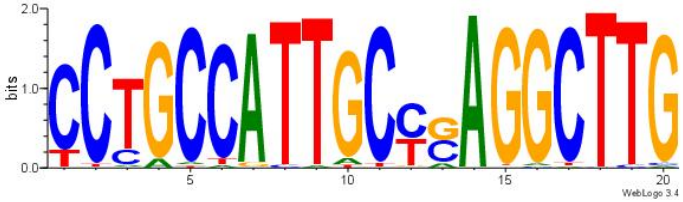

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

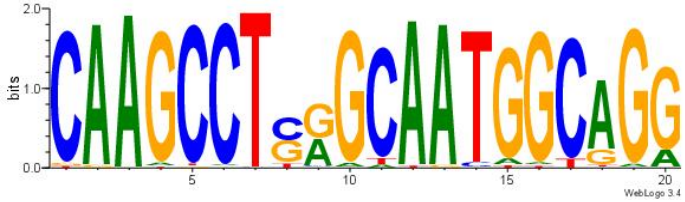

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 9
Similarity score: 0.0804581

Alignment:
ACCCAATWTGTAGTCTTTTA
-----CATTGTAGB------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

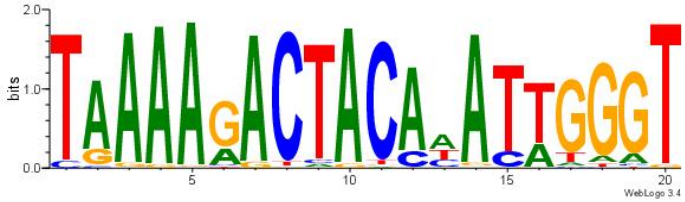

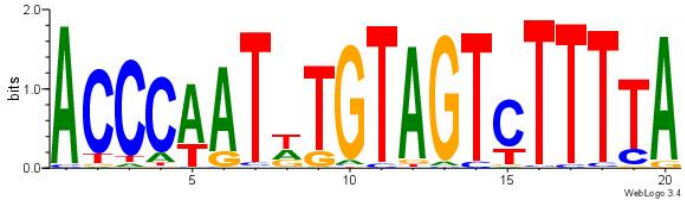

Dataset #:	1
Motif ID:	282
Motif name:	Motif 282
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0818297

Alignment:

```
GTCTCTACTAAAA
---BCTACAATG-
```

Original motif Consensus sequence: GTCTCTACTAAAA

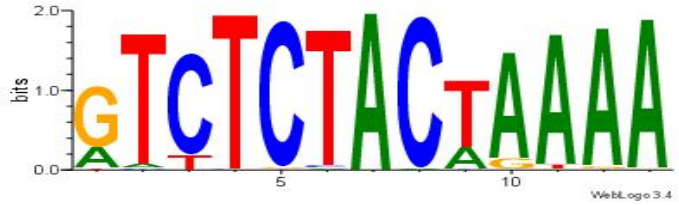

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

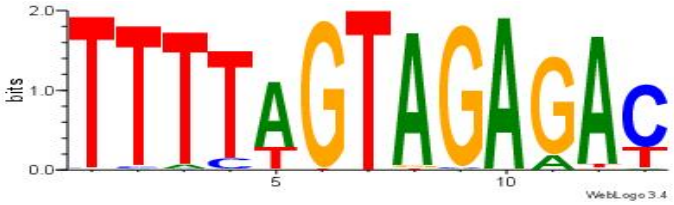

Dataset #:	1
Motif ID:	211

Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0819001

Alignment:

```
GACTTCAAGAATGAAGCCG
----BCTACAATG------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

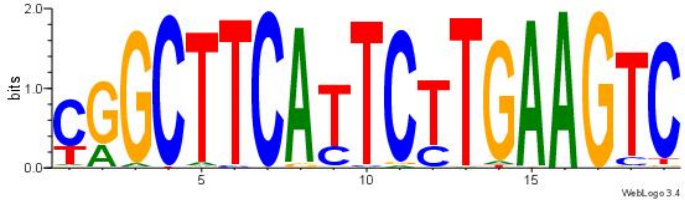

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0830815

Alignment:
GKCTGTACCCCCATTGTAT
-------BCTACAATG---

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

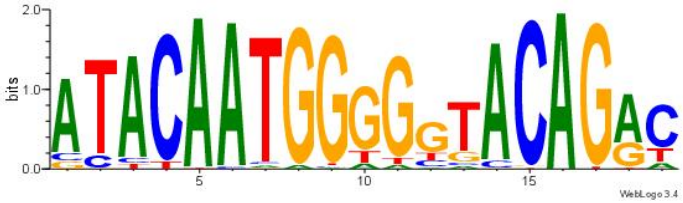

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

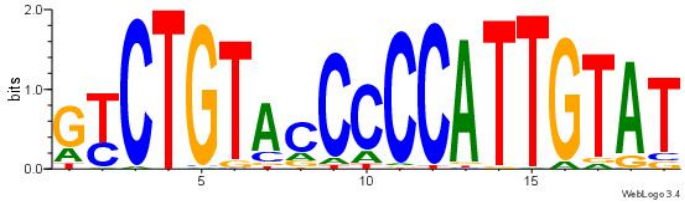

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0832408

Alignment:
GGGAGGGATATATTAGC
--------CATTGTAGB

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence:
GCTAATATATCCCTCCC

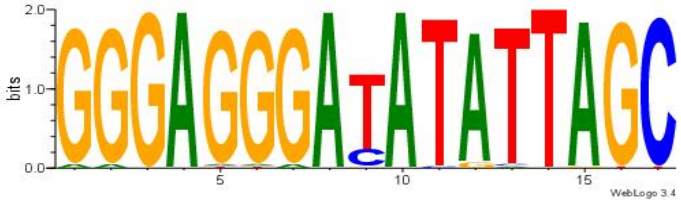

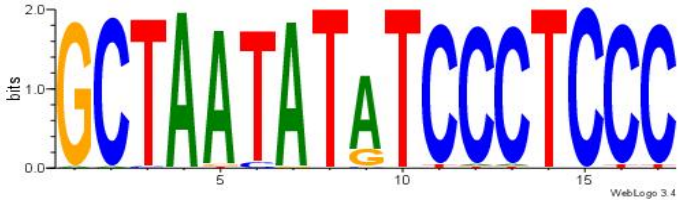

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.083758

Alignment:

```
CATGGCGGGCTGCAGGTC
CATTGTAGB---------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

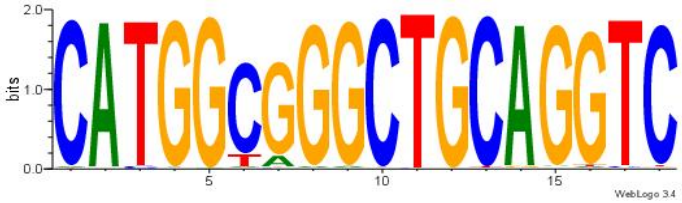

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

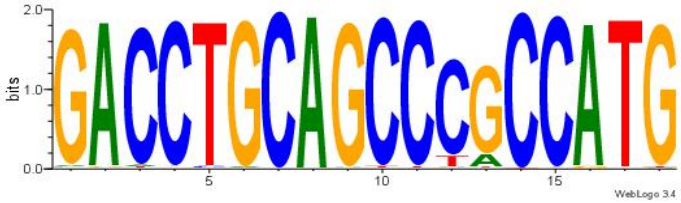

Dataset #:	1

Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.084228

Alignment:

```
CCATGATTGTRAGG
----CATTGTAGB-
```

Original motif Consensus sequence: CCATGATTGTRAGG

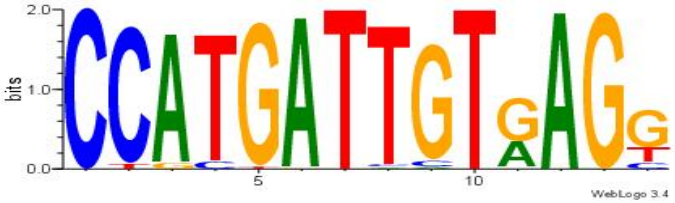

Reverse complement motif Consensus sequence: CCTMACAATCATG

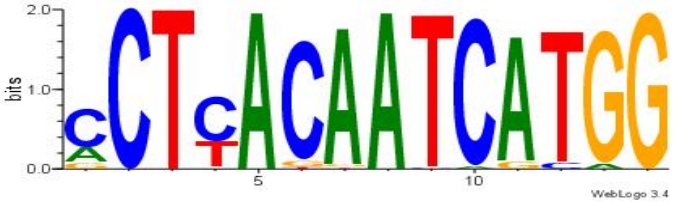

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0843491

Alignment:
GCTCCWGTGYGKCC
BCTACAATG-----

Original motif Consensus sequence: GCTCCWGTGYGKCC

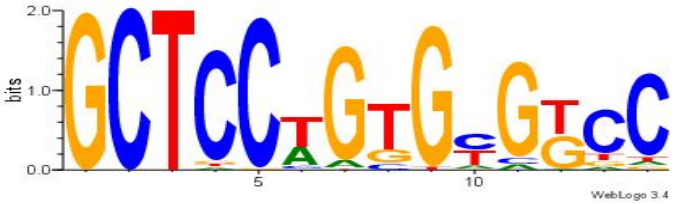

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0850379

Alignment:
AAAGTGCCGAGAKTGCAGC
----------CATTGTAGB

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

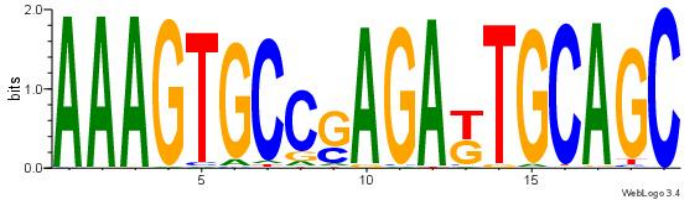

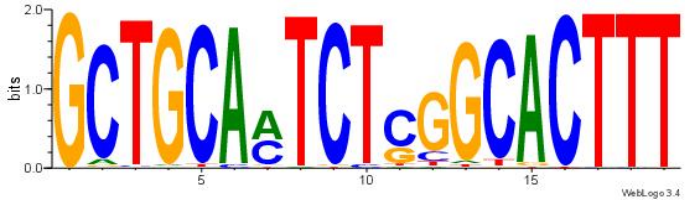

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0851305

Alignment:

```
GCTGGGATTACAGG
-----CATTGTAGB
```

Original motif Consensus sequence: GCTGGGATTACAGG

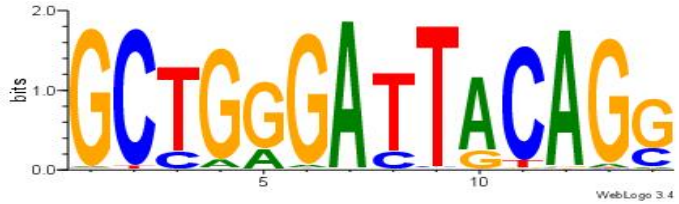

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	212

Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0857567

Alignment:

```
MTTGACTACCCTA
----BCTACAATG
```

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

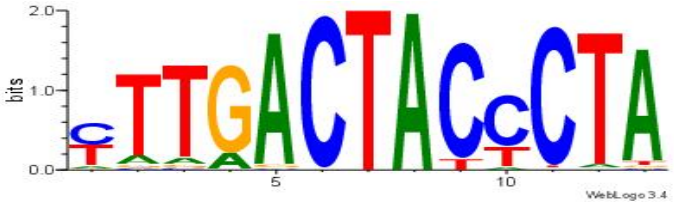

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0864776

Alignment:
GGGRSCACAGGAGCD
-----CATTGTAGB-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

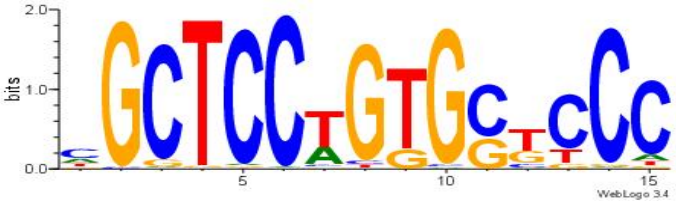

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0866429

Alignment:
TTCCTAACAGGCCA
--BCTACAATG---

Original motif Consensus sequence: TGGCCTGTTAGGAA

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

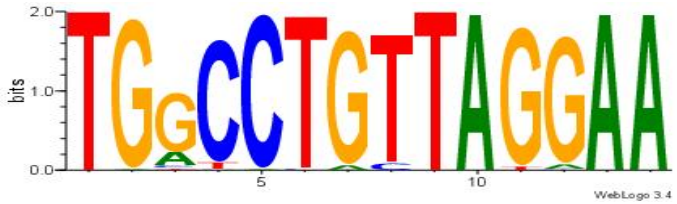

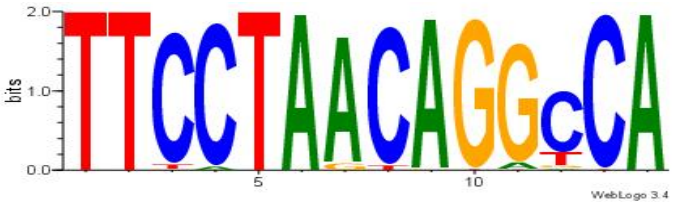

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0869872

Alignment:

```
TCKMGCCACTGCACTCCAGC
--BCTACAATG---------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

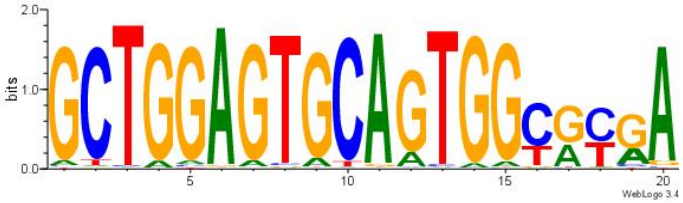

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

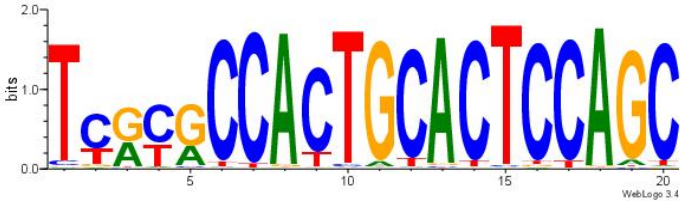

Dataset #:	1

Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0878853

Alignment:

```
CCGCTCCTGTGC
--BCTACAATG-
```

Original motif Consensus sequence: CCGCTCCTGTGC

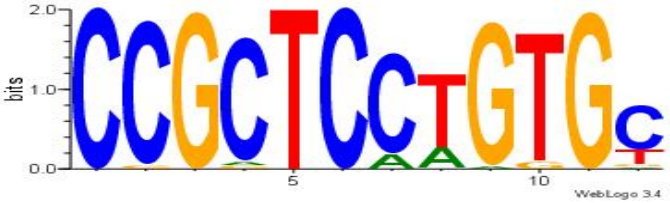

Reverse complement motif Consensus sequence: GCACAGGAGCGG

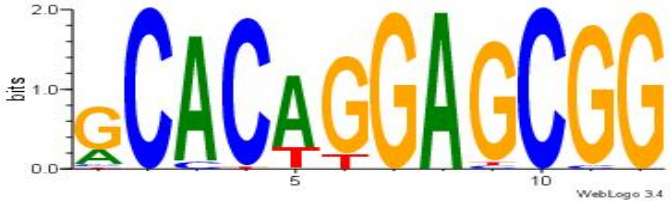

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0883769

Alignment:
ATTAGCYRGGCRTGGTGGC
----------CATTGTAGB

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

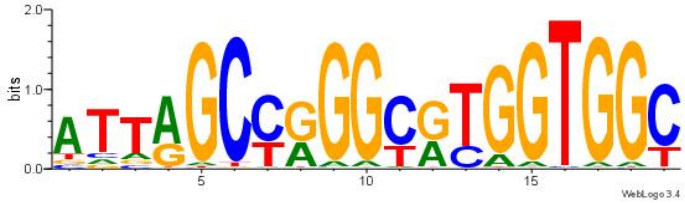

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

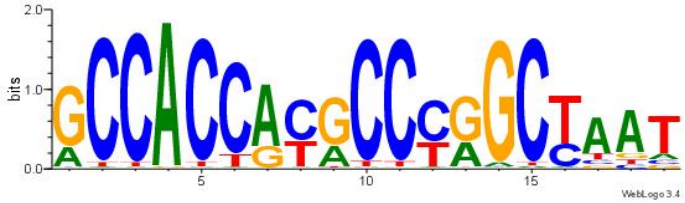

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0889413

Alignment:
AATCAACCCTGGYRATCAAT
--BCTACAATG---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

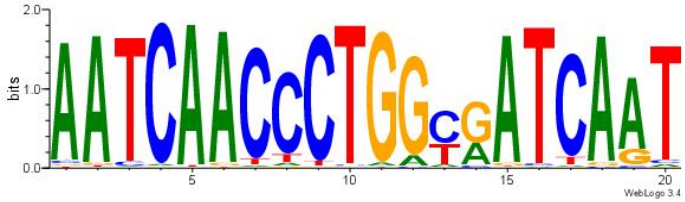

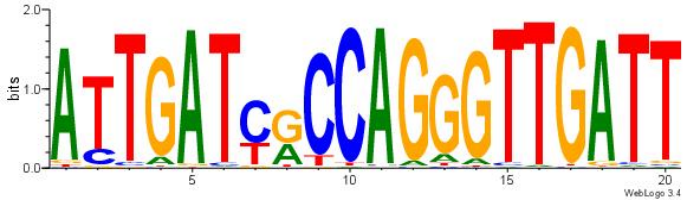

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0896883

Alignment:

```
CAATGATAGACTGGAT
----BCTACAATG---
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

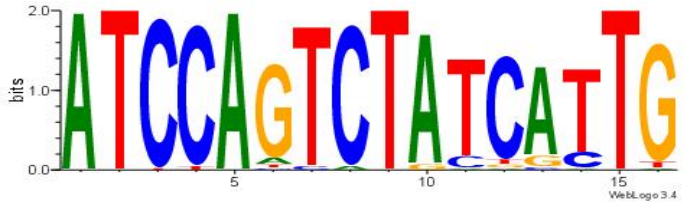

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0899368

Alignment:

```
AACCCTATTGTGAACTGYG
---BCTACAATG-------
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

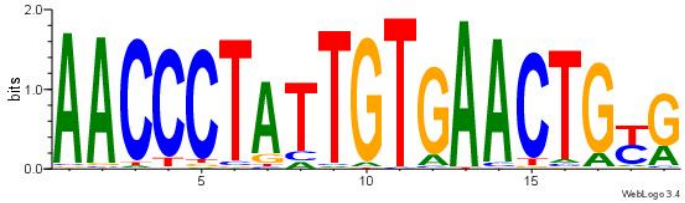

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

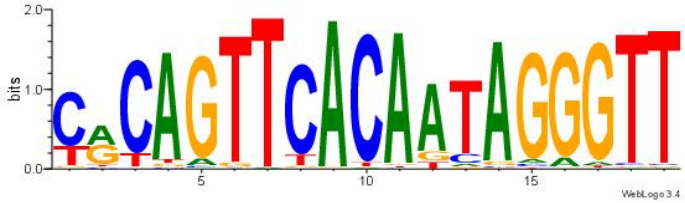

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9

Similarity score: 0.0906769

Alignment:
ACATCCCAGACGATGGGCG
----BCTACAATG------

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

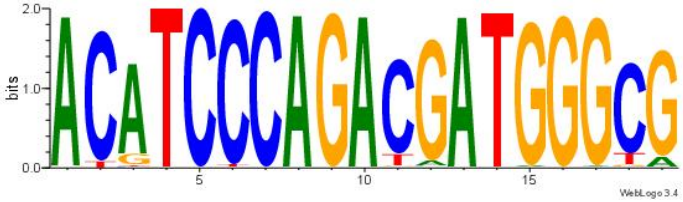

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

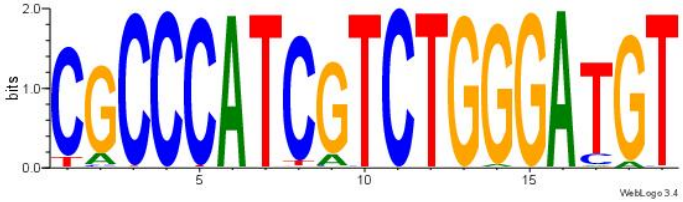

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0909047

Alignment:
CCCATGCAAGTCYRAAATCC
--CATTGTAGB---------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

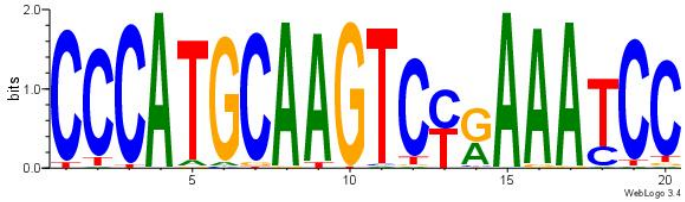

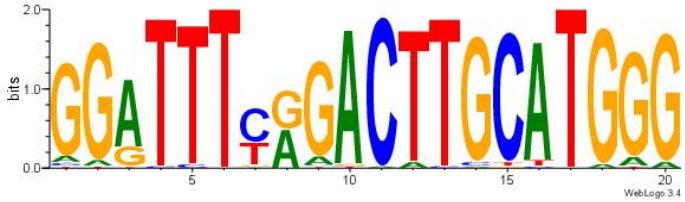

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0909952

Alignment:

```
TAGATAATAGCTCCAGCTTT
--CATTGTAGB---------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

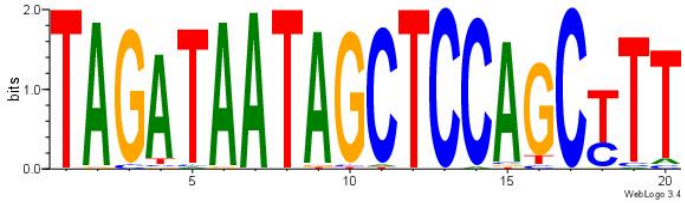

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

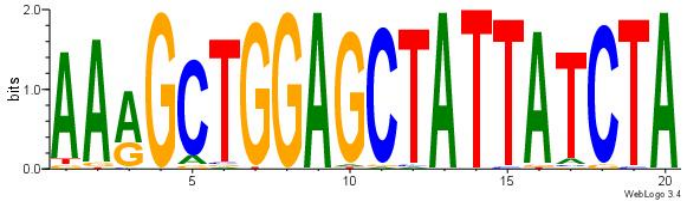

Dataset #:	1

Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0910916

Alignment:

```
KGAGAACAGTAGGG
----CATTGTAGB-
```

Original motif Consensus sequence: CCCTACTGTTCTCY

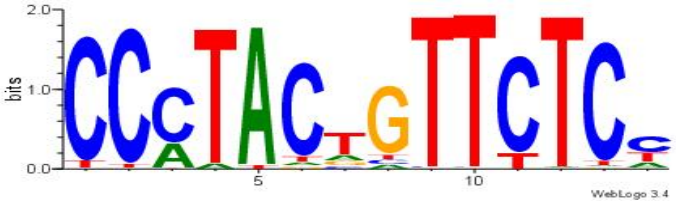

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0912932

Alignment:
TCAATGGTGCCCAG
----CATTGTAGB-

Original motif Consensus sequence: CTGGGCACCATTGA

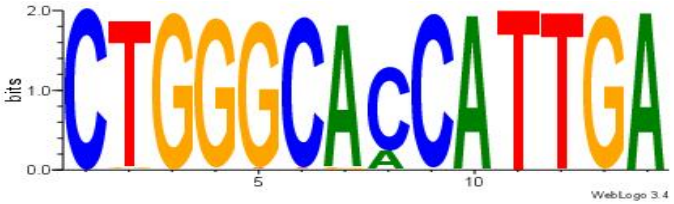

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

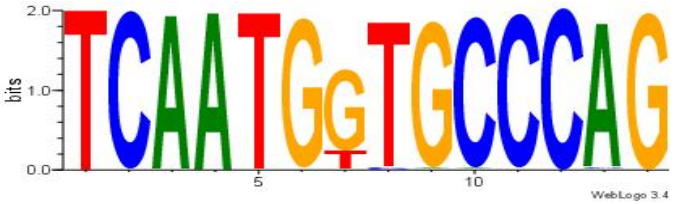

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0914038

Alignment:
ACATCMTCTGAAATCTAGG
----------CATTGTAGB

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

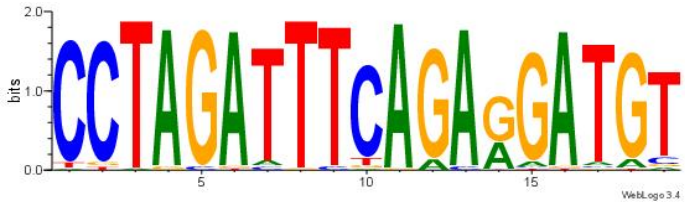

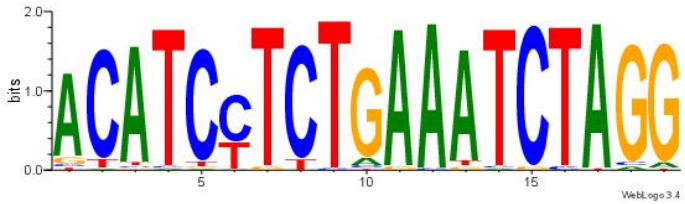

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0915227

Alignment:

```
GCCAATTTCTCCCATTTGGA
-------BCTACAATG----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

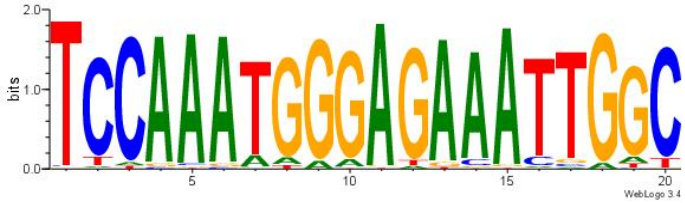

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

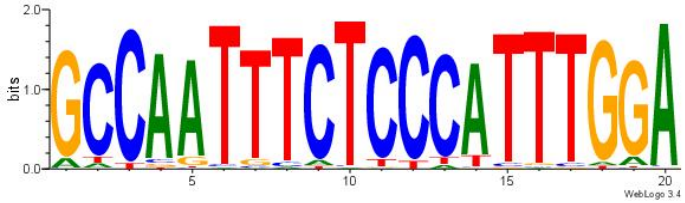

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0922694

Alignment:

```
GTTGTGAGGATTAAATGAG
--------BCTACAATG--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

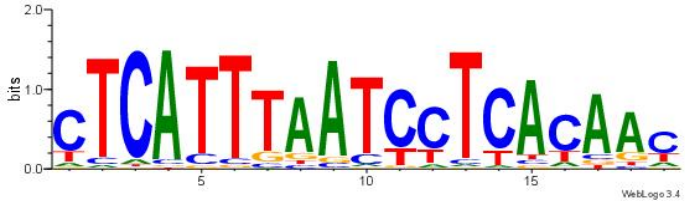

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

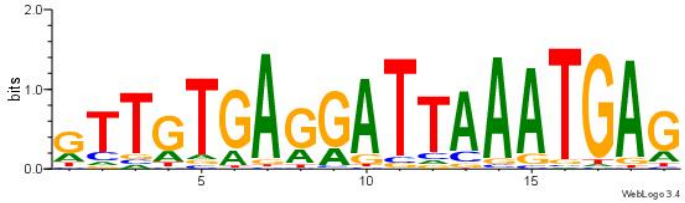

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0927999

Alignment:
CTCCATGAAGTC
--CATTGTAGB-

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

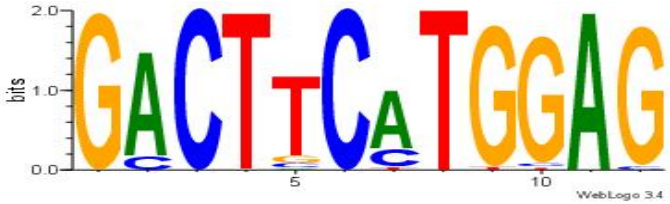

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 9
Similarity score: 0.0928517

Alignment:
AGTTGTAATTGGGAGACTT
CATTGTAGB----------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

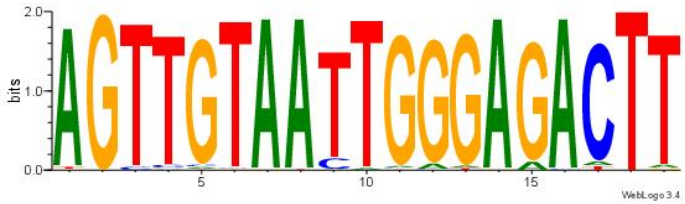

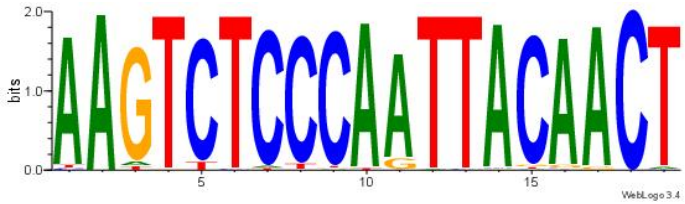

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0928755

Alignment:

```
CCATCTAGGAAGTG
---BCTACAATG--
```

Original motif Consensus sequence: CACTTCCTAGATGG

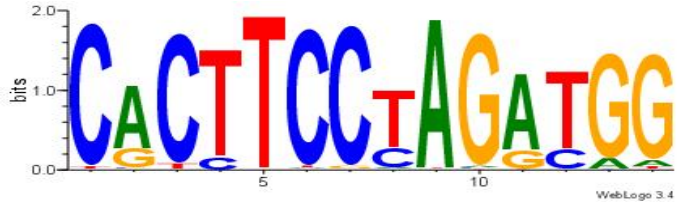

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

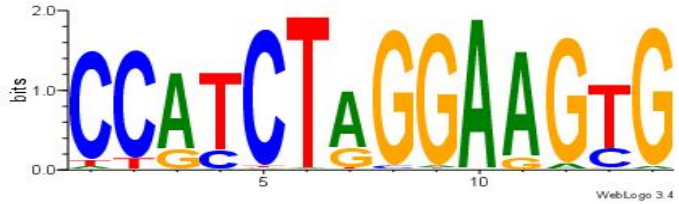

Dataset #:	1
Motif ID:	229

Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0931249

Alignment:

```
GCCTTGCTGCCGC
-CATTGTAGB---
```

Original motif Consensus sequence: GCCTTGCTGCCGC

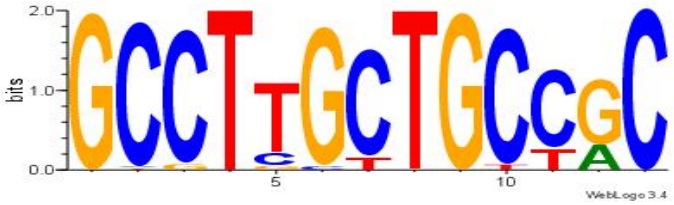

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

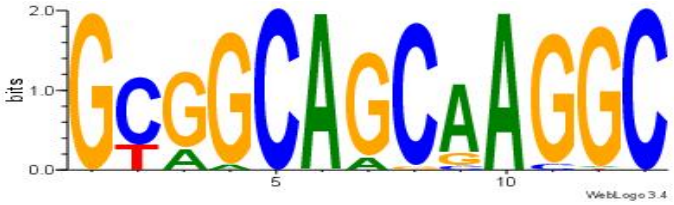

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0932393

Alignment:
TTTTATAGGATTTGGG
CATTGTAGB-------

Original motif Consensus sequence: CCCAAATCCTATAAAA

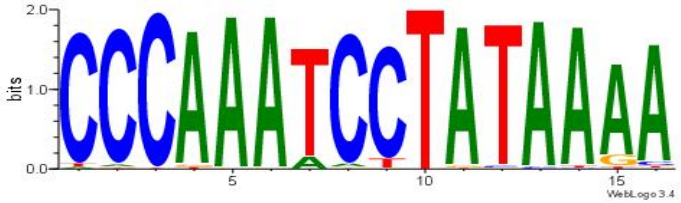

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

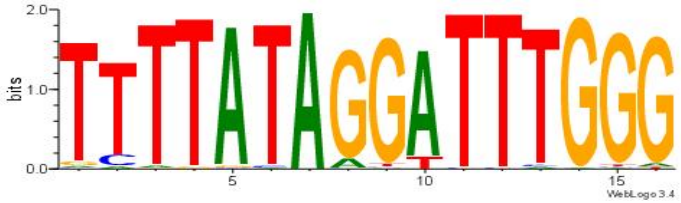

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0933165

Alignment:
CACTTTCCAGACTGGGCA
-----BCTACAATG----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

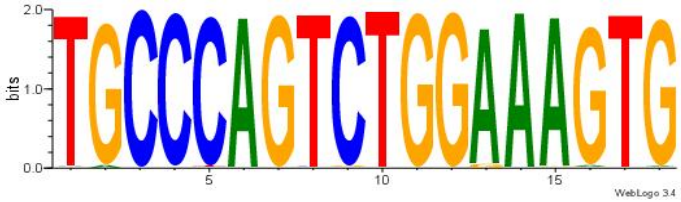

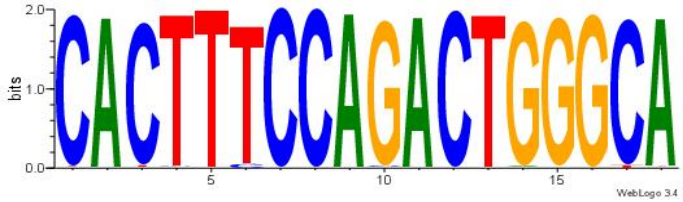

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.093388

Alignment:

```
GGCACTGCTGGGGGACCCAG
---------CATTGTAGB--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

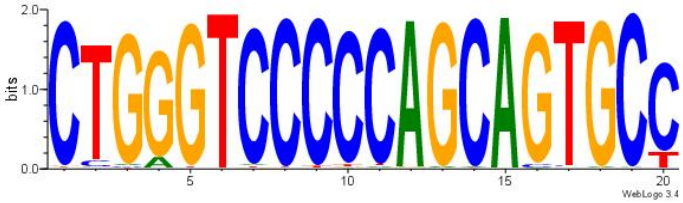

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

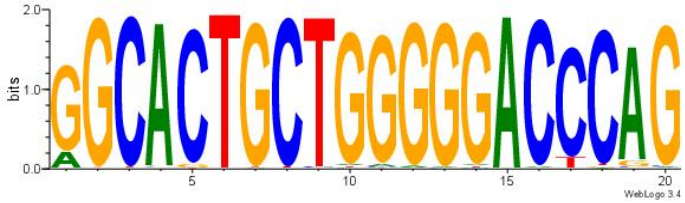

Dataset #:	1

Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0938076

Alignment:

```
CCCCGGGCAGTGAGGG
CATTGTAGB-------
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

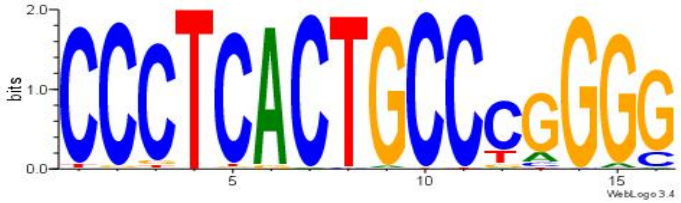

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

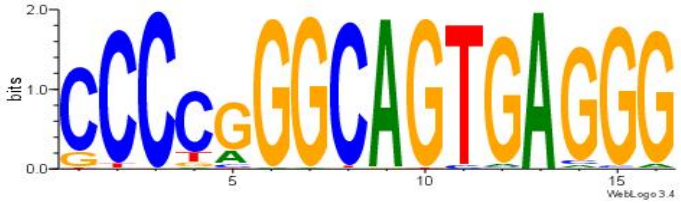

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9

Similarity score: 0.0938144

Alignment:
CATTATGCTAARTG
CATTGTAGB-----

Original motif Consensus sequence: CATTATGCTAARTG

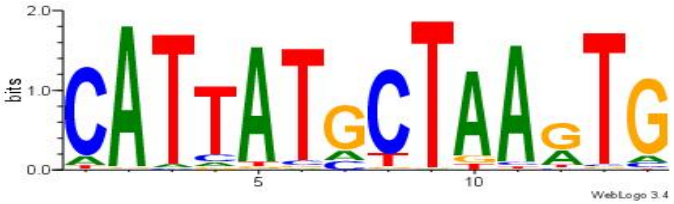

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

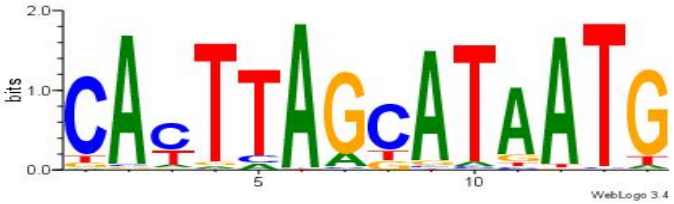

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 9
Similarity score: 0.094054

Alignment:
GACAGGAGATTAACACTGAG
---------BCTACAATG--

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

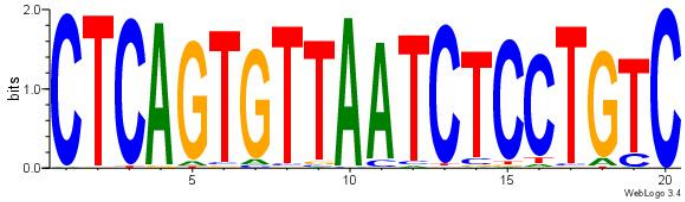

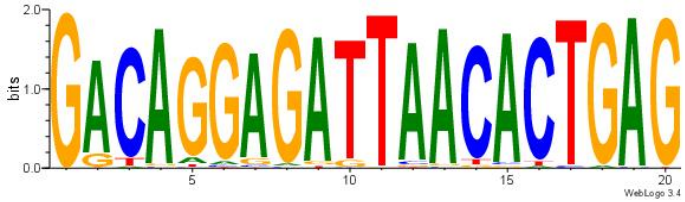

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0941014

Alignment:

```
TCTGGAGTGGACCTCCAGCA
BCTACAATG-----------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

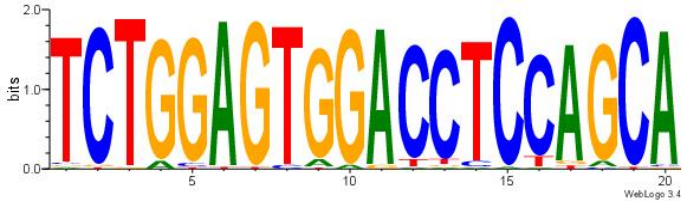

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

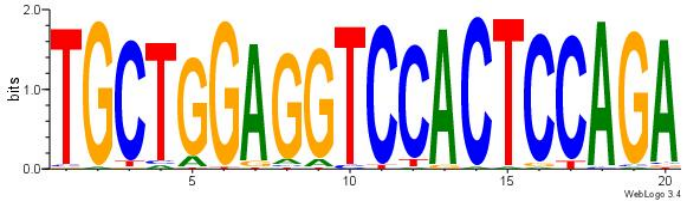

Dataset #: 1 Motif ID: 152 Motif name: Motif 152

Original motif Consensus sequence: TAAAATAA

Reverse complement motif Consensus sequence: TTATTTTA

Best Matches for Motif ID 152 (Highest to Lowest)

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0340112

Alignment:

```
TAATTTTATGTGTCAACTTG
TTATTTTA------------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

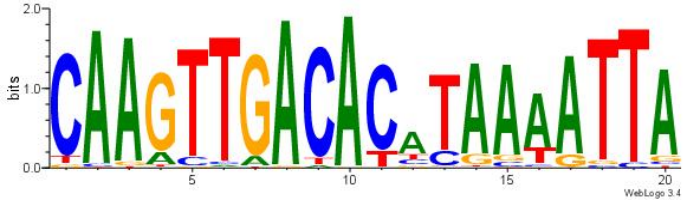

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

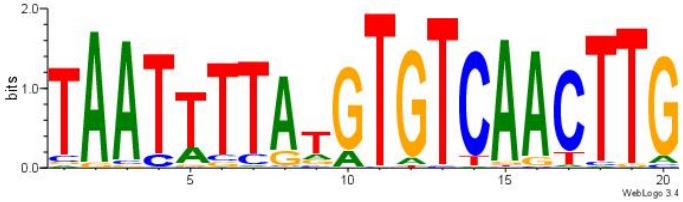

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0363851

Alignment:

```
AAGTGAAATAA
---TAAAATAA
```

Original motif Consensus sequence: AAGTGAAATAA

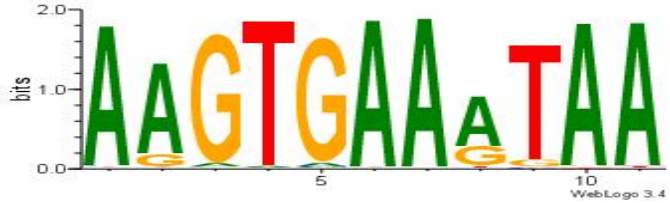

Reverse complement motif Consensus sequence: TTATTTCACTT

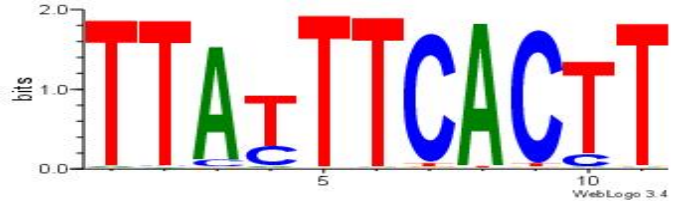

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	13
Number of overlap:	8

Similarity score: 0.044499

Alignment:
ACCCAATWTGTAGTCTTTTA
----------TTATTTTA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

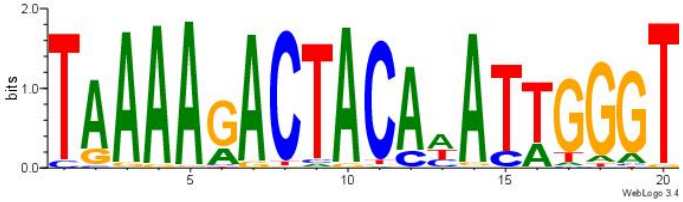

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

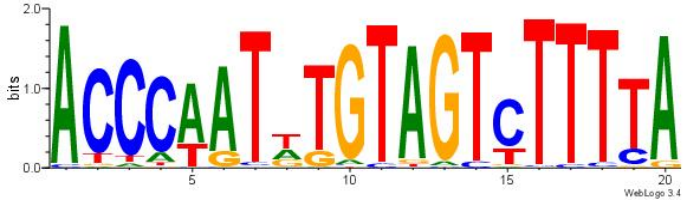

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 8
Similarity score: 0.0489303

Alignment:
GTTAACTGTAAAACAGCCT
--------TAAAATAA---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

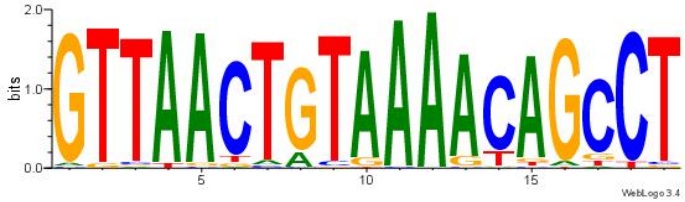

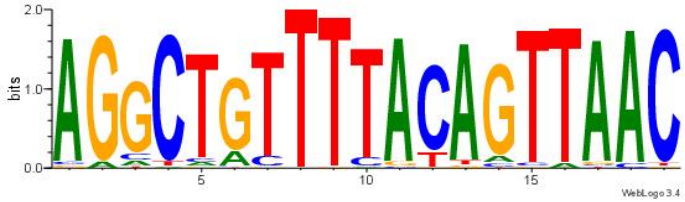

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0492169

Alignment:

```
GATACAAAATCAATGTR
----TAAAATAA-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

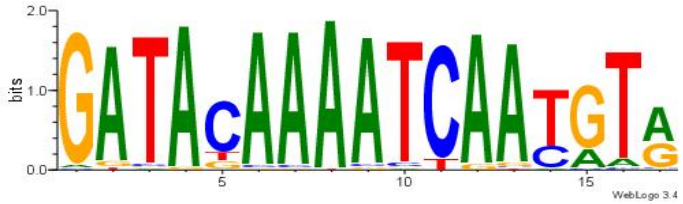

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

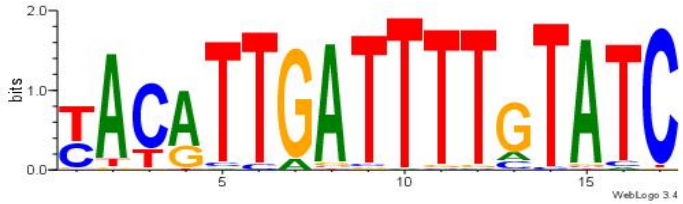

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0507554

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
---TTATTTTA---------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

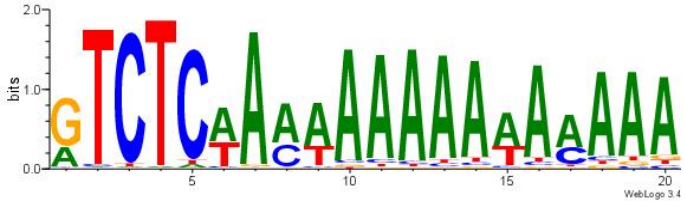

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

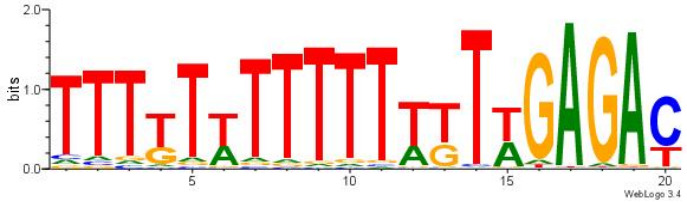

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8

Similarity score: 0.0511557

Alignment:
CTCATTTAATCCTCACAAC
----------TTATTTTA-

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

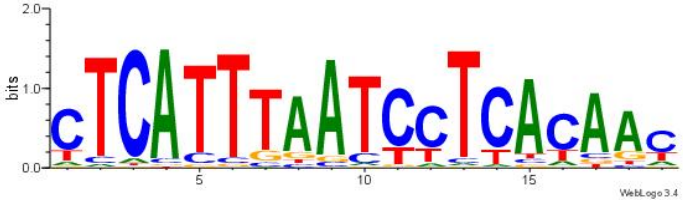

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

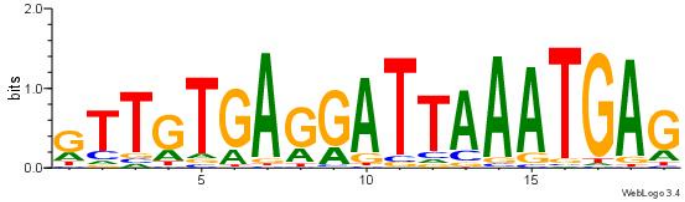

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 8
Similarity score: 0.0527595

Alignment:
AATTAAAAGACACAGACTG
---TAAAATAA--------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

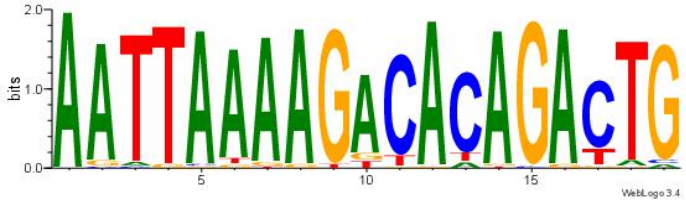

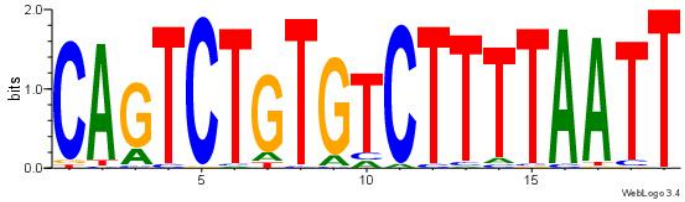

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0533685

Alignment:

```
TTTTTTTMTTT
TTATTTTA---
```

Original motif Consensus sequence: AAAYAAAAAAA

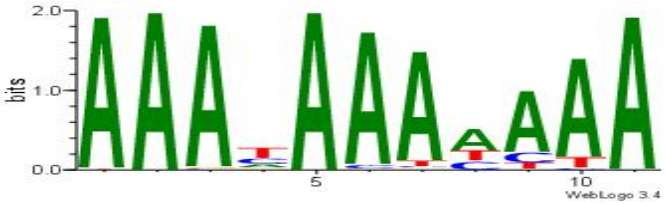

Reverse complement motif Consensus sequence: TTTTTTTMTTT

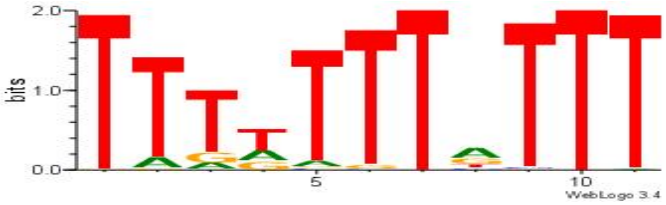

Dataset #:	1
Motif ID:	287

Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0555347

Alignment:

```
CAMTTAGCATAATG
----TAAAATAA--
```

Original motif Consensus sequence: CATTATGCTAARTG

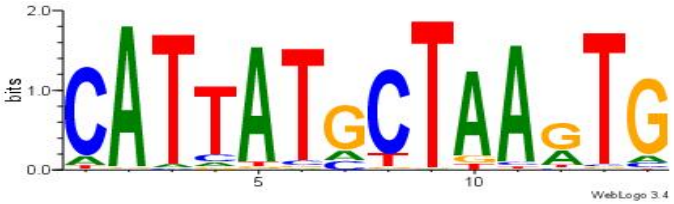

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

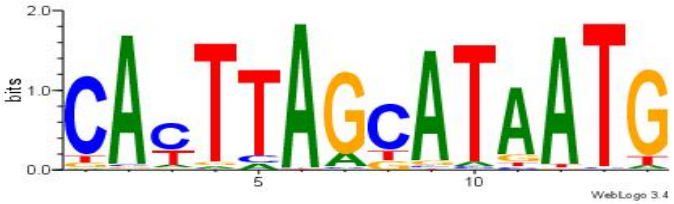

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0586906

Alignment:
TGAGKCAATTAAACCTCTT
-------TAAAATAA----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

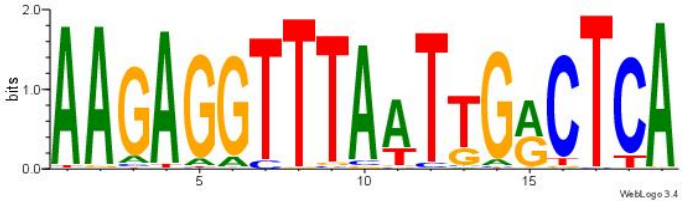

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

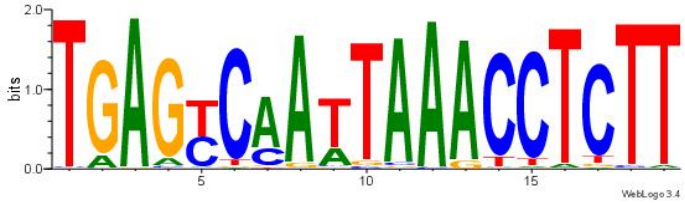

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0589144

Alignment:
TTTCTTTGACTRG
-TTATTTTA----

Original motif Consensus sequence: CKAGTCAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

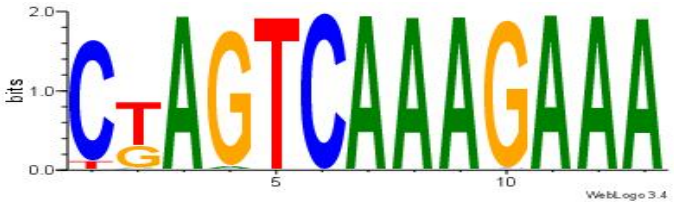

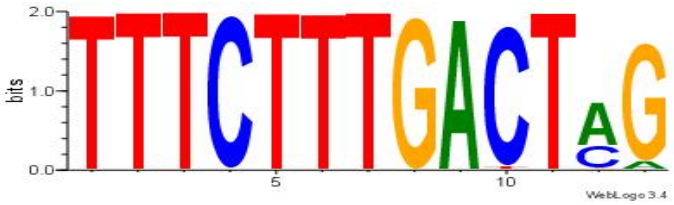

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0590458

Alignment:

```
GGGAGGGATATATTAGC
-------TTATTTTA--
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

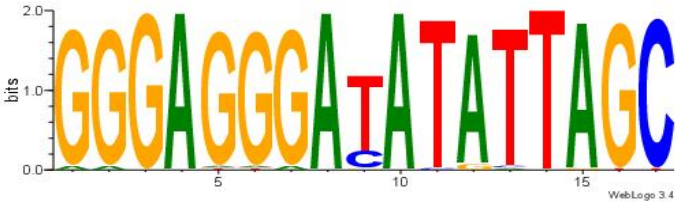

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

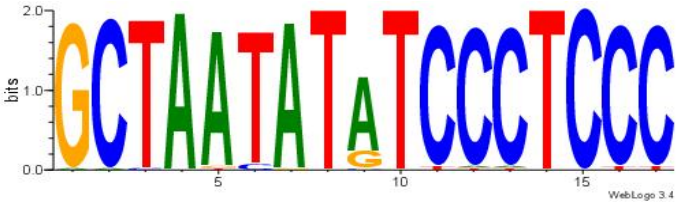

Dataset #: 1

Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0625878

Alignment:

```
AAGGAAAAGAAA
---TAAAATAA-
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

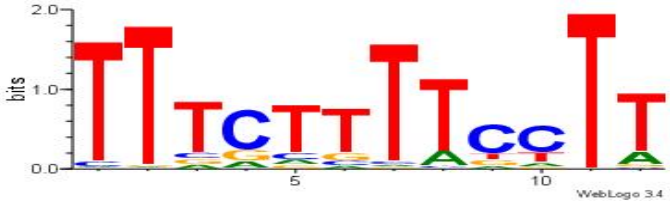

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0642623

Alignment:
ATGGAATAYTATTCAGCCAT
-TAAAATAA----------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

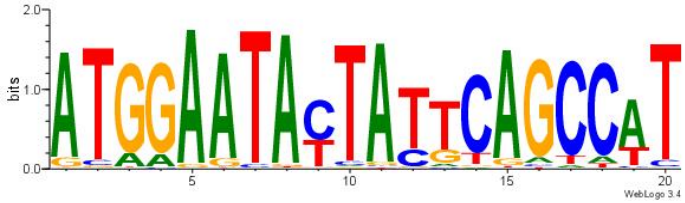

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

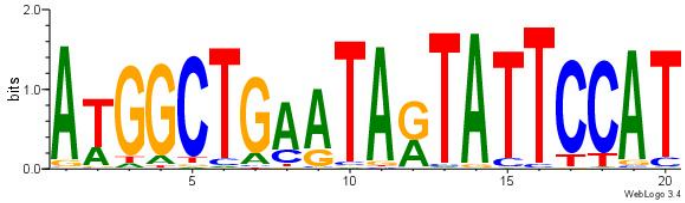

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.065239

Alignment:
CTGCTATAACAAA
----TAAAATAA-

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

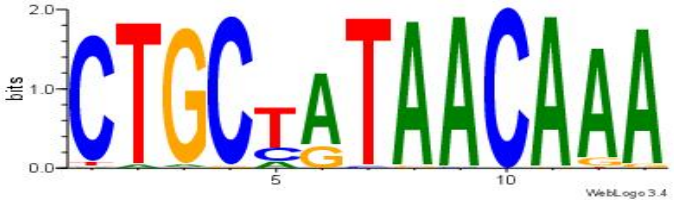

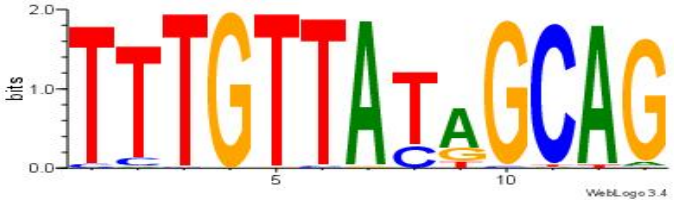

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0659184

Alignment:

```
AATGAKATCATGTCYTTTGC
----------TAAAATAA--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

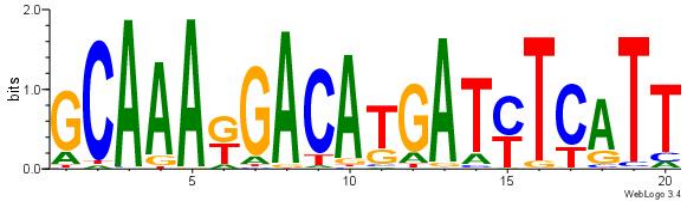

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

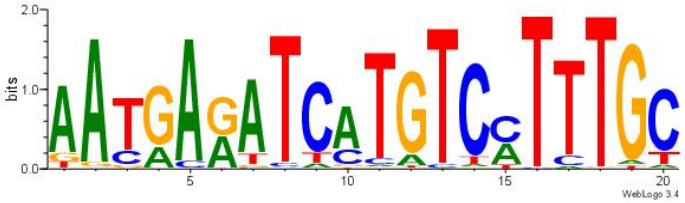

Dataset #: 1

Motif ID:	130
Motif name:	Motif 130
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0677062

Alignment:

```
ATMATAATAAT
-TAAAATAA--
```

Original motif Consensus sequence: ATTATTATYAT

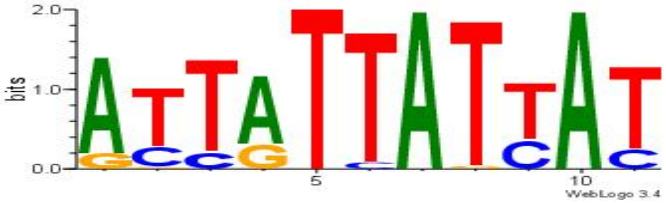

Reverse complement motif Consensus sequence: ATMATAATAAT

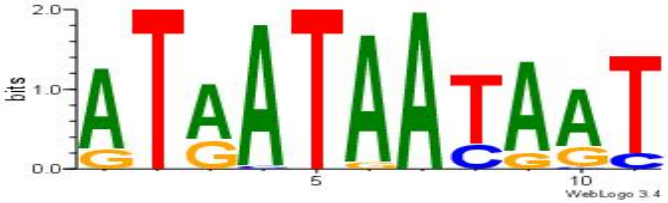

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0680324

Alignment:
CCATGATTGTRAGG
---TTATTTTA---

Original motif Consensus sequence: CCATGATTGTRAGG

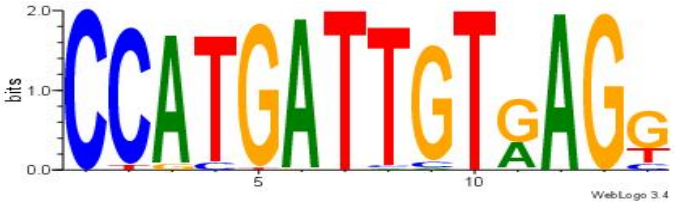

Reverse complement motif Consensus sequence: CCTMACAATCATG

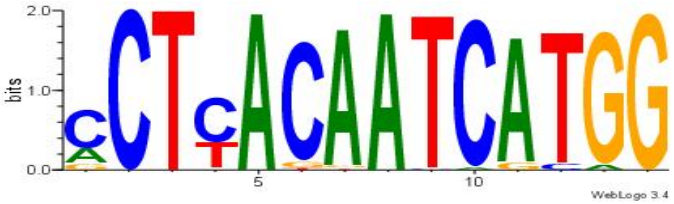

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0690379

Alignment:
GCCGTTTKTTAAGCCCGTY
--------TTATTTTA---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

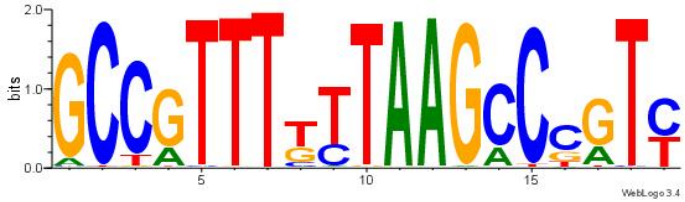

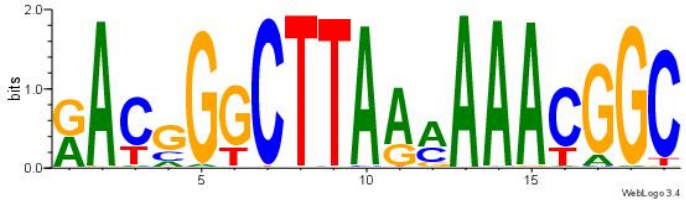

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0697468

Alignment:
AGTGACCCGATTTTCCAGGT
-------TTATTTTA-----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

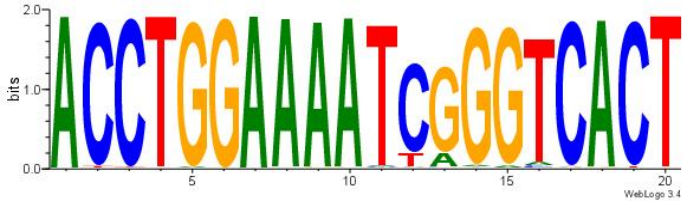

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

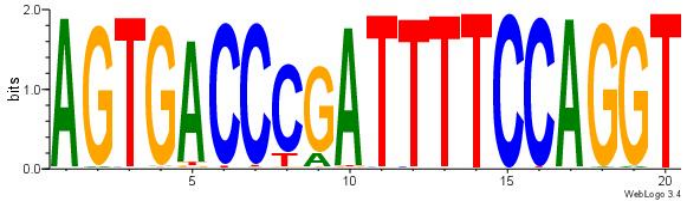

Dataset #: 1

Motif ID:	173
Motif name:	Motif 173
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.069815

Alignment:

```
AAGGAAACAA
--TAAAATAA
```

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

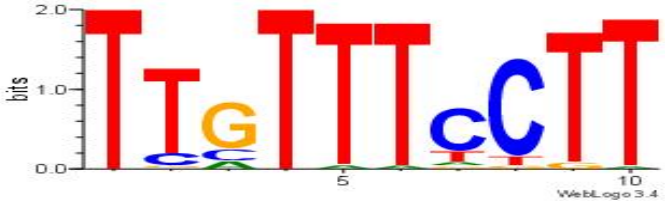

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0717345

Alignment:
GCAGCAMTATTCACAATAG
TAAAATAA----------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

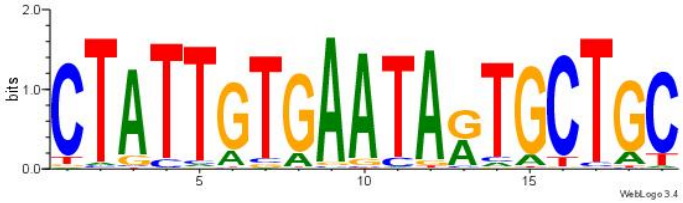

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

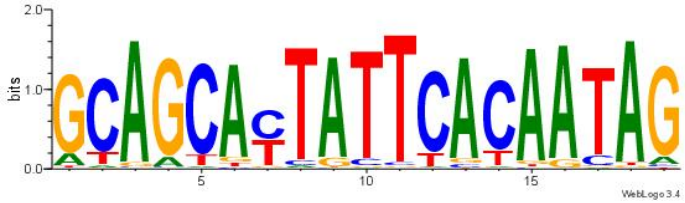

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0739529

Alignment:
AAATGGAATCAT
---TAAAATAA-

Original motif Consensus sequence: AAATGGAATCAT

Reverse complement motif Consensus sequence: ATGATTCCATTT

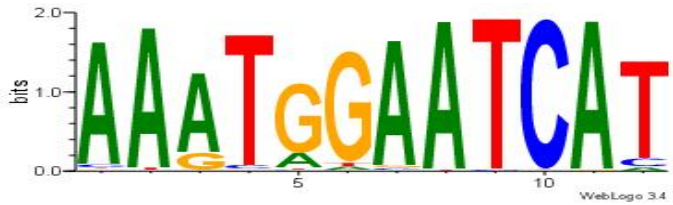

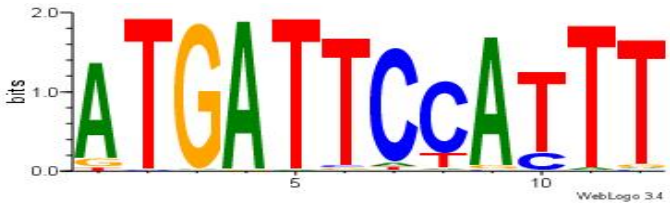

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0745424

Alignment:

```
CAAGGTCTGATTGTW
-------TTATTTTA
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

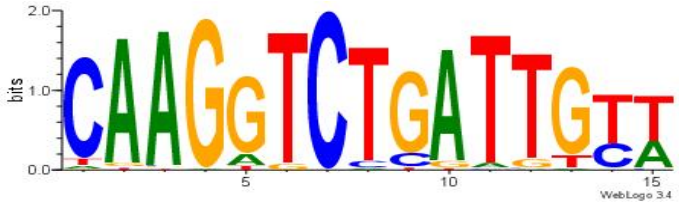

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	57

Motif name:	Motif 57
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0747174

Alignment:

```
AAATATTTATT
-TTATTTTA--
```

Original motif Consensus sequence: AAATATTTATT

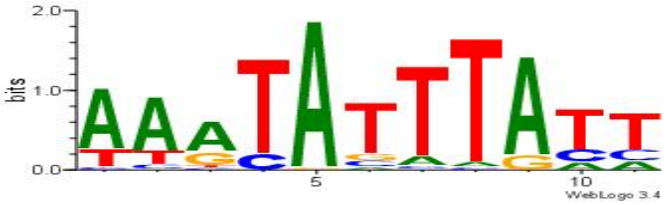

Reverse complement motif Consensus sequence: AATAAATATTT

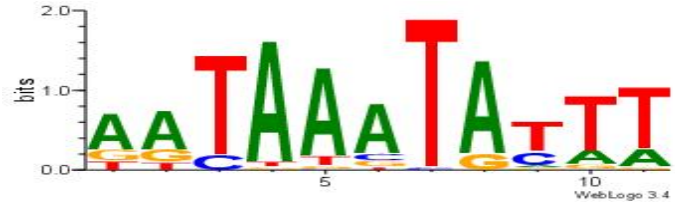

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0749336

Alignment:
ACATGCTACAACAT
------TAAAATAA

Original motif Consensus sequence: ACATGCTACAACAT

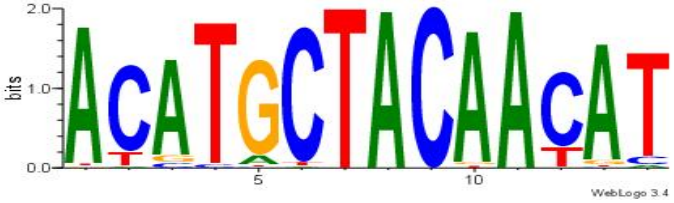

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

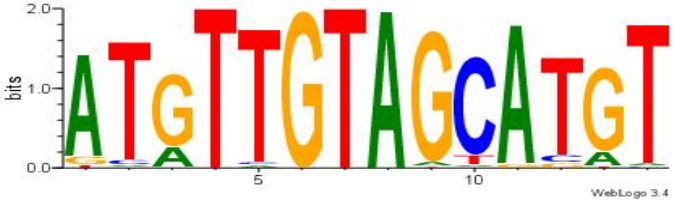

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0750596

Alignment:
AAAGCTGGAGCTATTATCTA
----------TTATTTTA--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

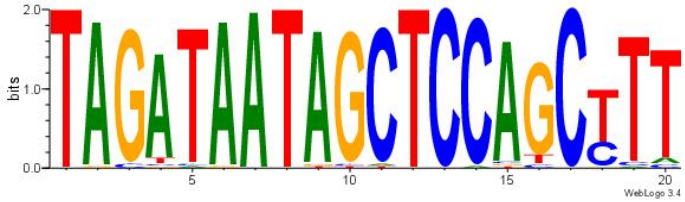

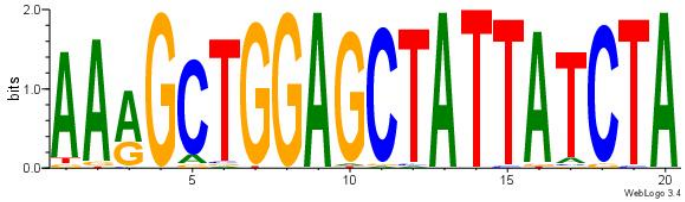

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0750769

Alignment:

```
ACATCMTCTGAAATCTAGG
--------TAAAATAA---
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

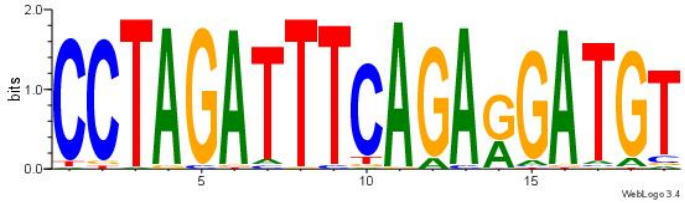

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

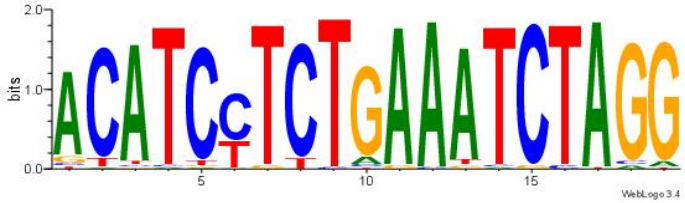

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0753834

Alignment:

```
TTCAMTCATGATTTGGCTCT
--------TTATTTTA----
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

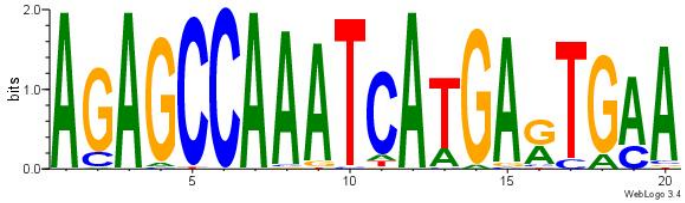

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

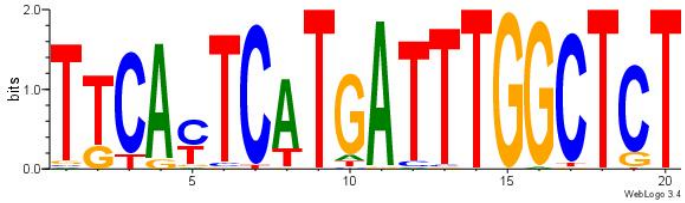

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0756493

Alignment:
GAAATTGACTTCCTCCT
TAAAATAA---------

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

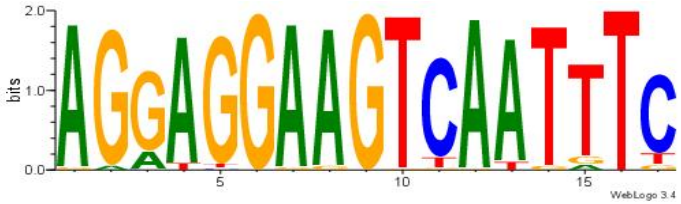

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

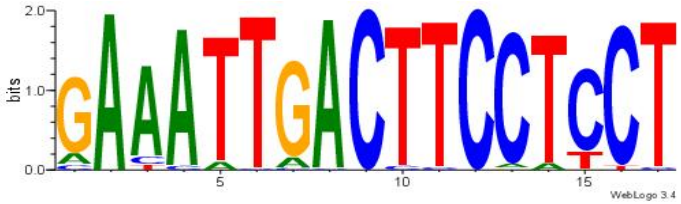

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.0759019

Alignment:
TWTACCTATGTAACAAACCT
----TAAAATAA--------

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

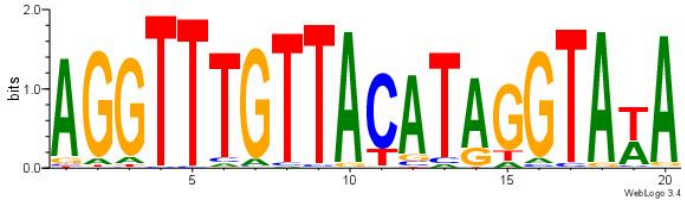

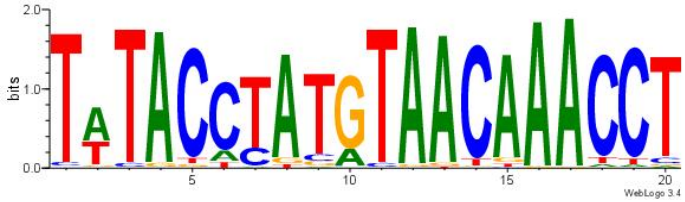

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0759938

Alignment:

```
GKCTGTACCCCCATTGTAT
----------TTATTTTA-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

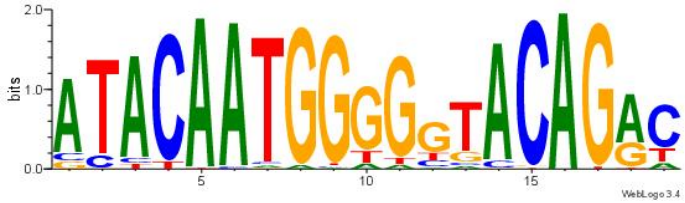

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

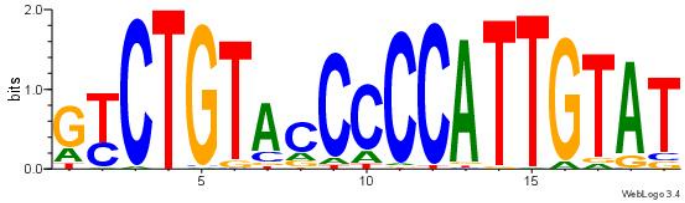

Dataset #: 1

Motif ID:	342
Motif name:	Motif 342
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0761852

Alignment:

```
GCCTATTAAAC
--TTATTTTA-
```

Original motif Consensus sequence: GCCTATTAAAC

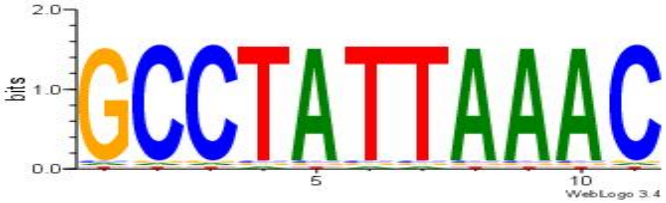

Reverse complement motif Consensus sequence: GTTTAATAGGC

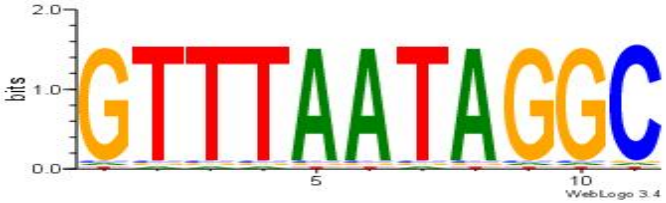

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0765237

Alignment:
TYTGTCMTTTTGTGACTGGC
----TTATTTTA--------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

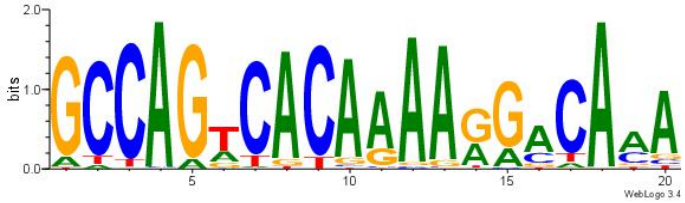

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

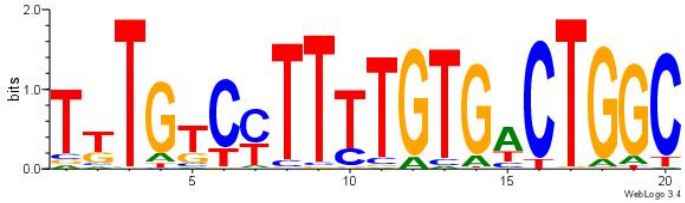

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0768143

Alignment:
AAYRGACTAATACA
--TAAAATAA----

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

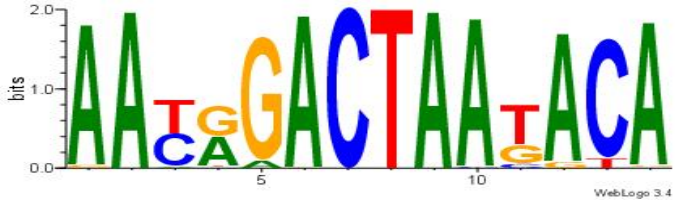

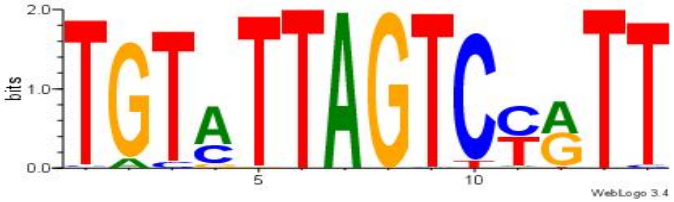

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8
Similarity score:	0.0769349

Alignment:

```
CCCATGCAAGTCYRAAATCC
------------TAAAATAA
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

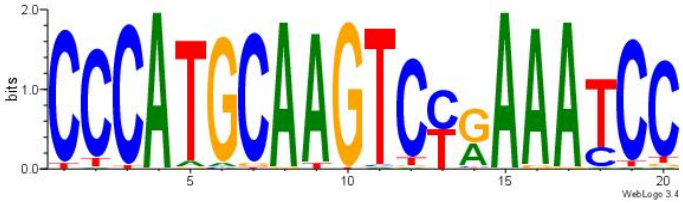

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

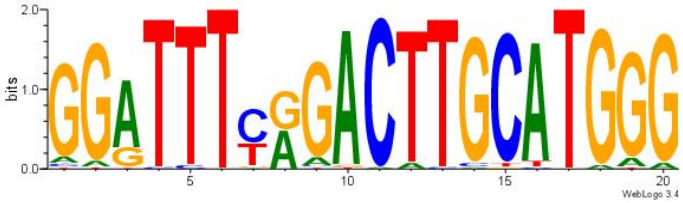

Dataset #: 1

Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0770071

Alignment:

```
CAGAAATCACC
-TAAAATAA--
```

Original motif Consensus sequence: CAGAAATCACC

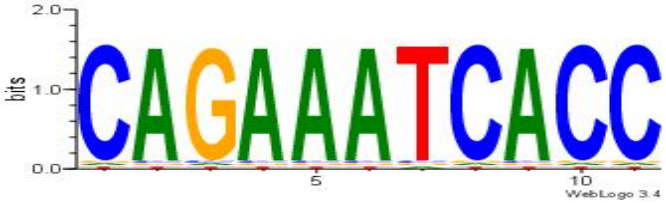

Reverse complement motif Consensus sequence: GGTGATTTCTG

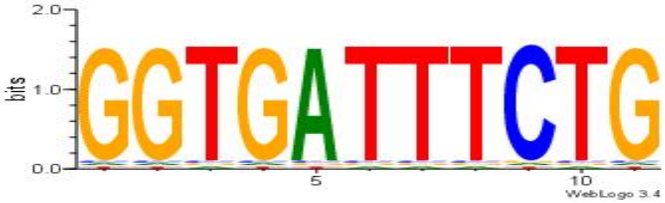

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0773758

Alignment:
TTYTTGTTGTTGTTGTT
---TTATTTTA------

Original motif Consensus sequence: AACAACAACAACAAMAA

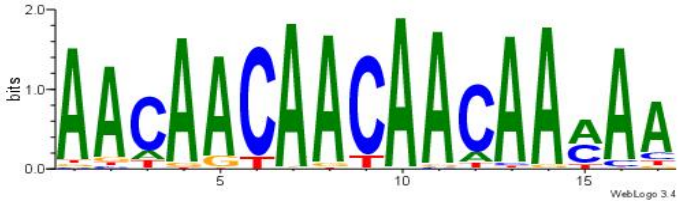

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

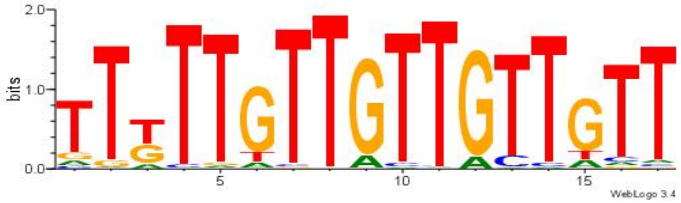

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0774639

Alignment:
AAATTAGGCCAATTAATAAC
-----------TAAAATAA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

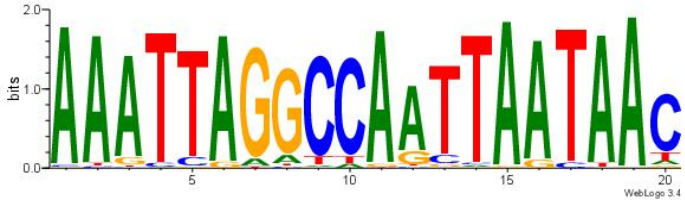

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0779634

Alignment:

```
GGTGGGAGAAATACCT
------TAAAATAA--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

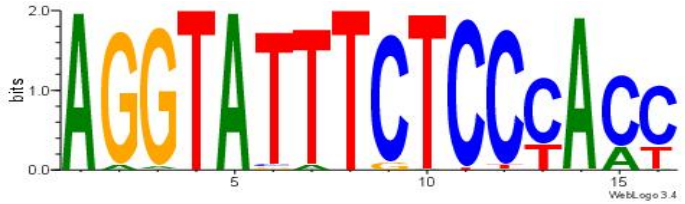

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

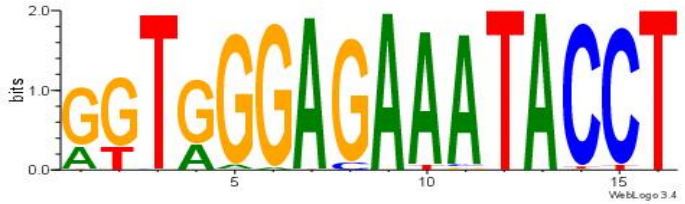

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0785879

Alignment:

```
CACCAGGAGATTATATCCCR
--TTATTTTA----------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

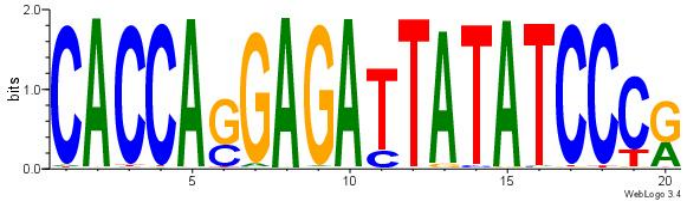

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

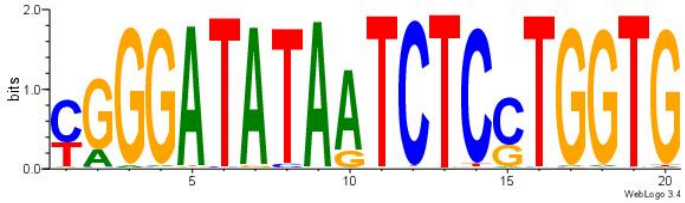

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8

Similarity score: 0.0787277

Alignment:
CAAAGGCATAAGAATGAT
---------TAAAATAA-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

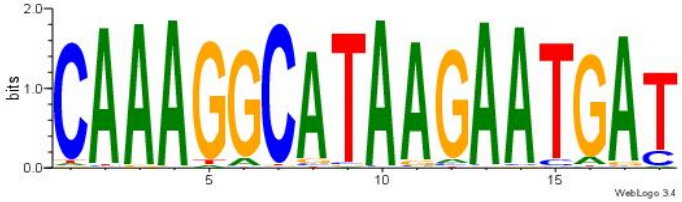

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

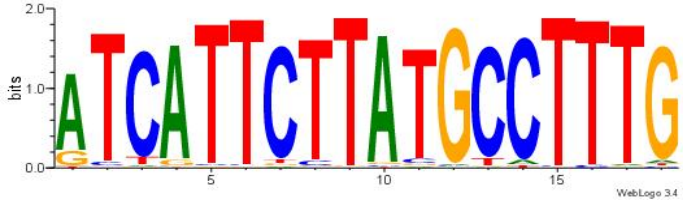

Dataset #: 1
Motif ID: 319
Motif name: Motif 319
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0792546

Alignment:
TTGTTAAAAACTA
---TAAAATAA--

Original motif Consensus sequence: TAGTTTTTAACAA

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

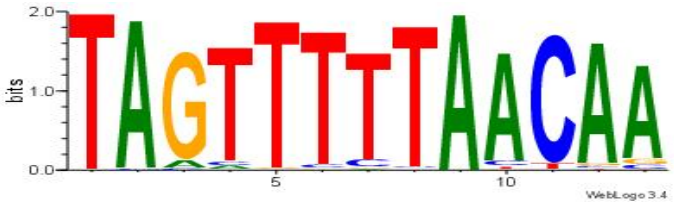

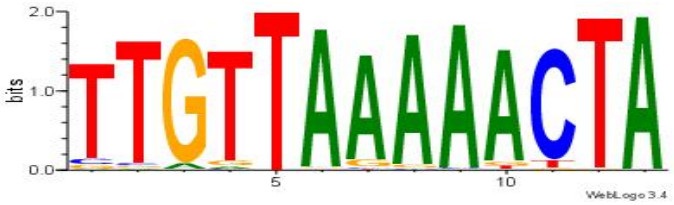

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0795758

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----TAAAATAA-------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

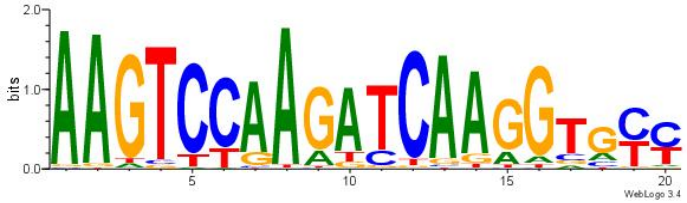

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

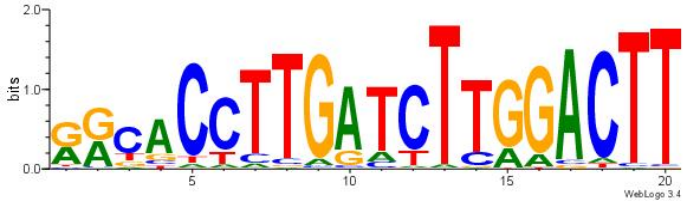

Dataset #:	1

Motif ID:	172
Motif name:	Motif 172
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0797796

Alignment:

```
TTCTGTTTCT
TTATTTTA--
```

Original motif Consensus sequence: AGAAACAGAA

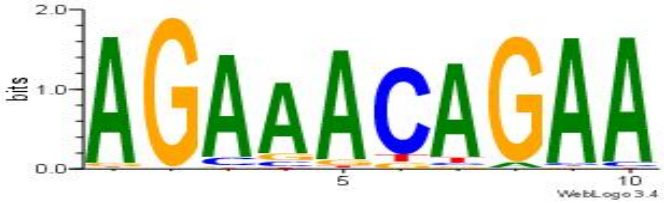

Reverse complement motif Consensus sequence: TTCTGTTTCT

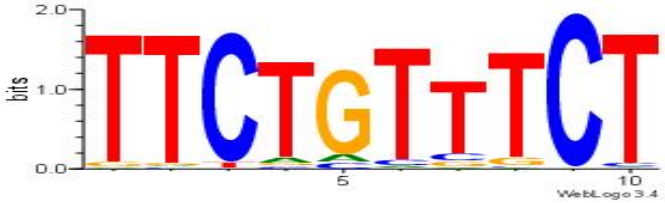

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0798031

Alignment:
AACCCTATTGTGAACTGYG
----TTATTTTA-------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

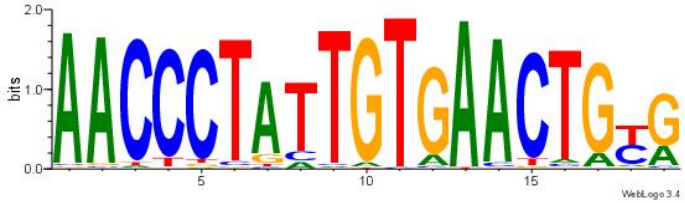

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

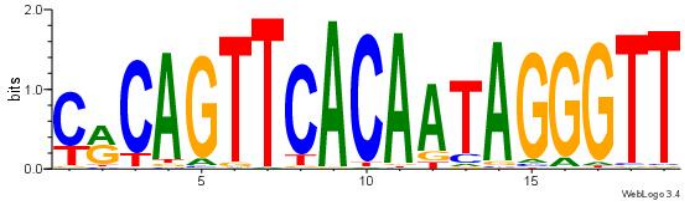

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0798792

Alignment:
TAGTGGTGATTTSTGAGAT
------TTATTTTA-----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

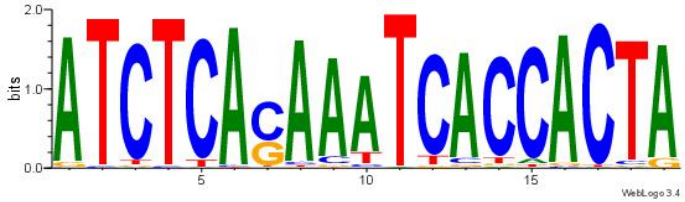

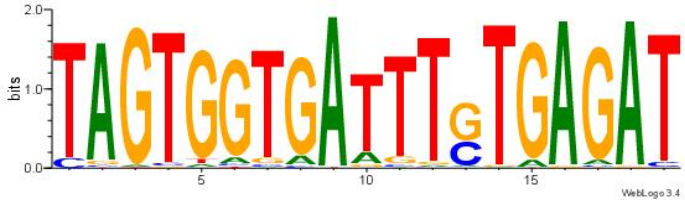

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0803238

Alignment:

```
GACAGGAGATTAACACTGAG
-----TAAAATAA-------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

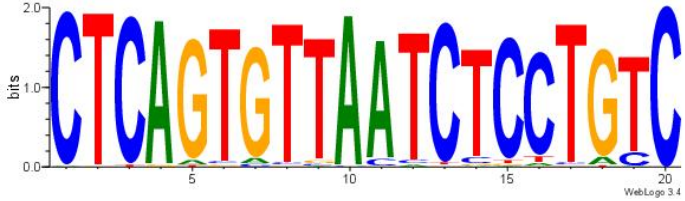

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

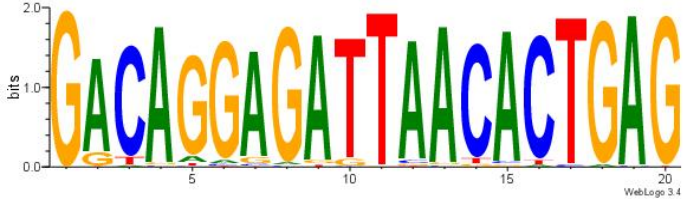

Dataset #: 1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0806477

Alignment:

```
TTTTATAGGATTTGGG
--TTATTTTA------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

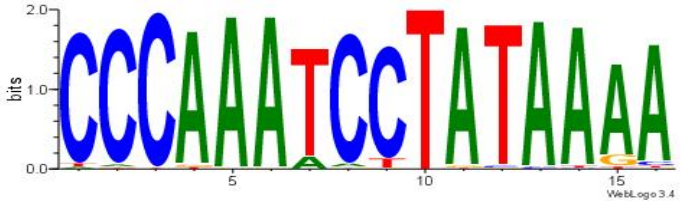

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

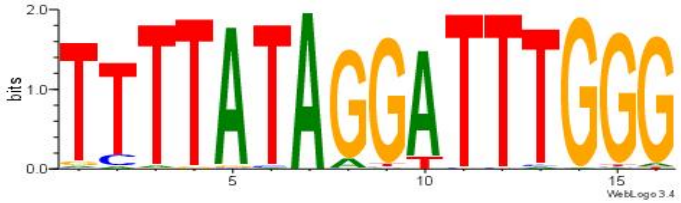

Dataset #: 1 Motif ID: 153 Motif name: Motif 153

Original motif Consensus sequence: CACTAGGGAGTGCC

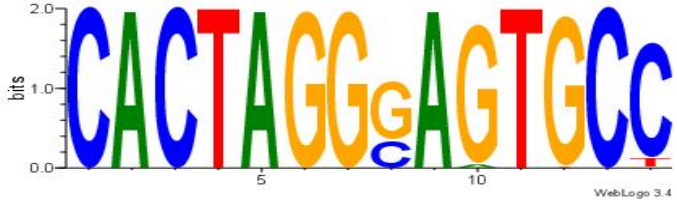

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

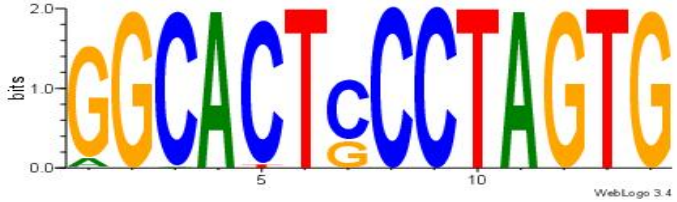

Best Matches for Motif ID 153 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0824482

Alignment:

```
GGATCCACTGGGTGAAGCCA
-----CACTAGGGAGTGCC-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

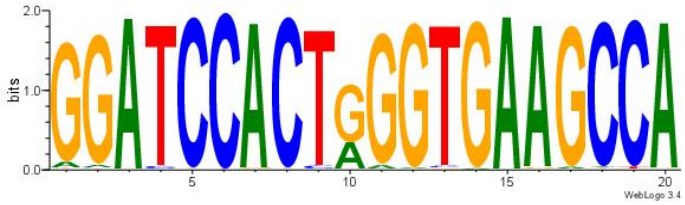

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

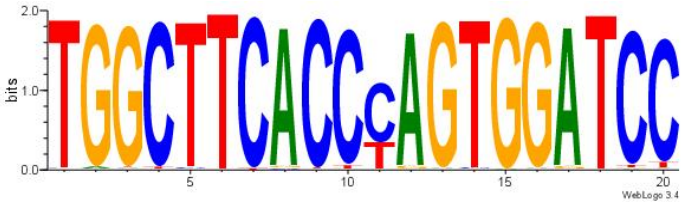

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.082834

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
------CACTAGGGAGTGCC
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

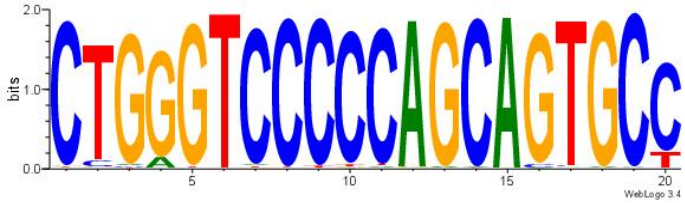

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

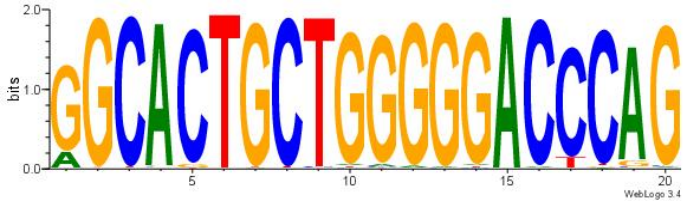

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0887847

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GGCACTCCCTAGTG------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

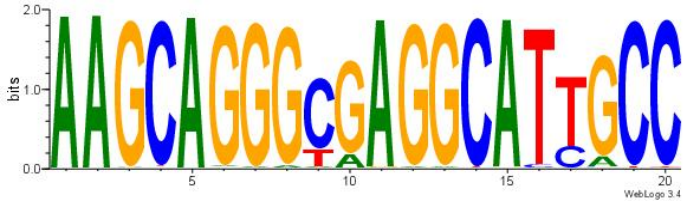

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

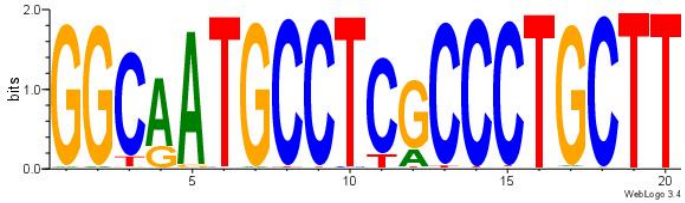

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0903253

Alignment:

```
ACACATCACAAAGCAGTTTC
------CACTAGGGAGTGCC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

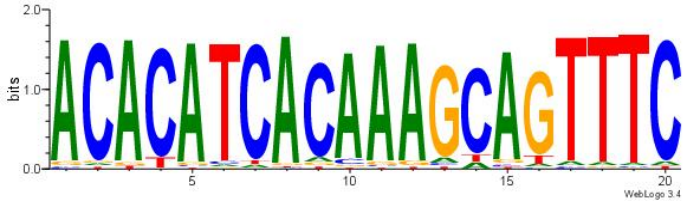

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

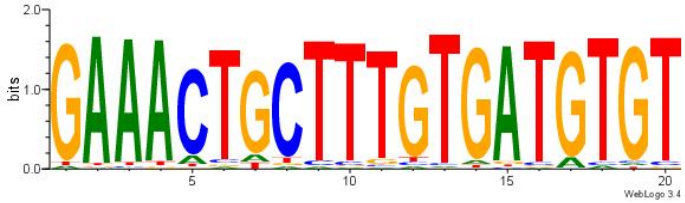

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0915329

Alignment:

```
CTGGCCCTCAATGGTTAAAC
--GGCACTCCCTAGTG----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

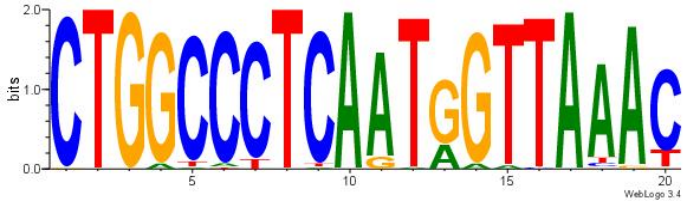

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

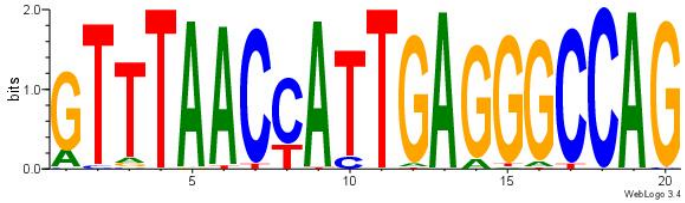

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0952225

Alignment:
CCCCGGGCAGTGAGGG
--CACTAGGGAGTGCC

Original motif Consensus sequence: CCCTCACTGCCCGGGG

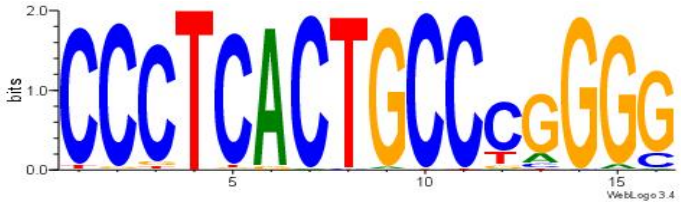

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

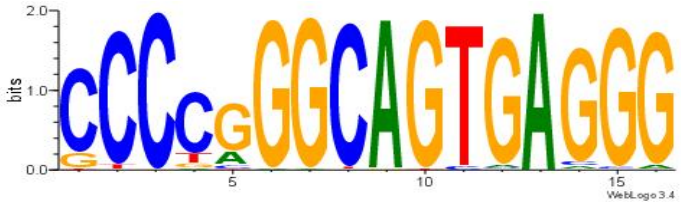

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0954101

Alignment:
GGCTGAGGAGTGCG
CACTAGGGAGTGCC

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

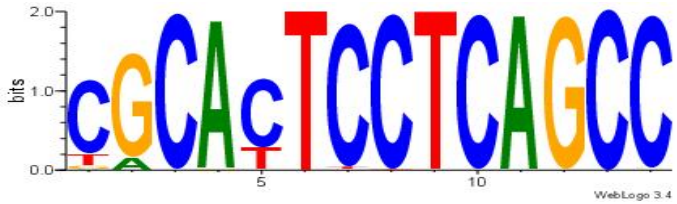

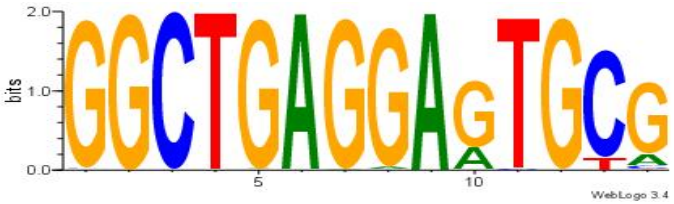

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0963964

Alignment:

```
ATCTGACAGGAGGYRGAGCT
------CACTAGGGAGTGCC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

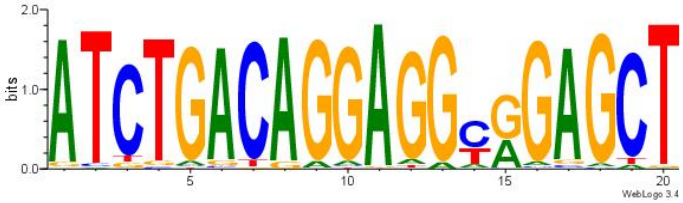

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

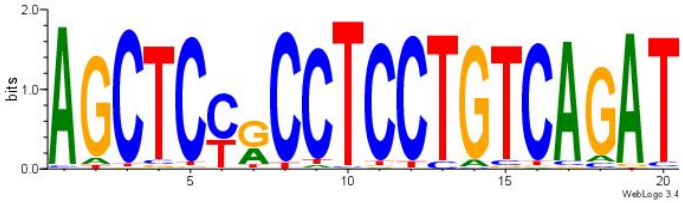

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0964837

Alignment:

```
CTTGCGCTTCCCRRGTGA
-GGCACTCCCTAGTG---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

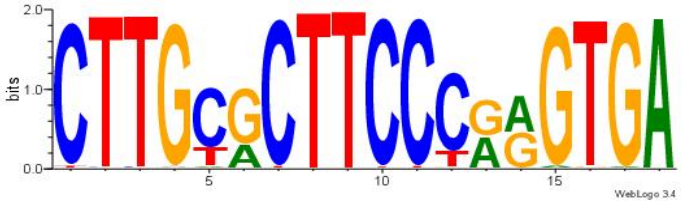

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

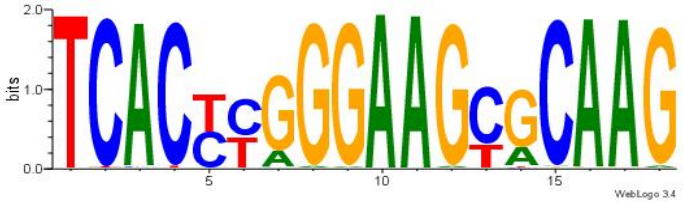

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.09872

Alignment:
GGGTCAGGGAGTTCCCTTTC
-----CACTAGGGAGTGCC-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

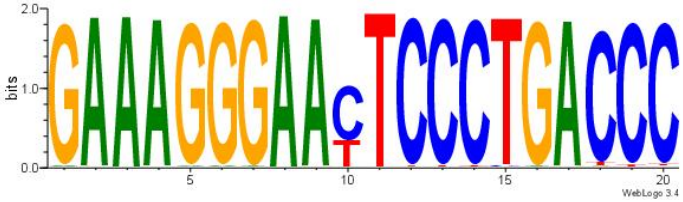

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

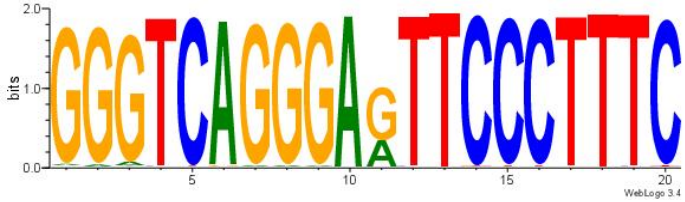

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0994454

Alignment:
CATTTGGGAGCCCATTGA
CACTAGGGAGTGCC----

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence:
TCAATGGGCTCCCAAATG

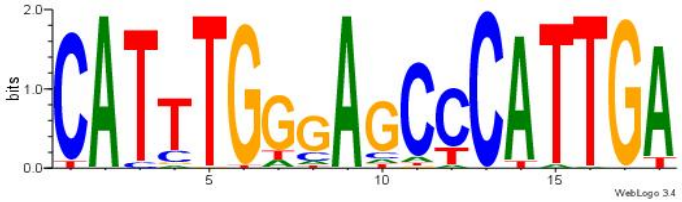

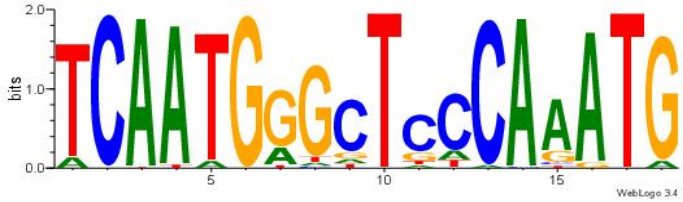

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.100964

Alignment:

```
CCGCGGGGCAGGGCTCG
--CACTAGGGAGTGCC-
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

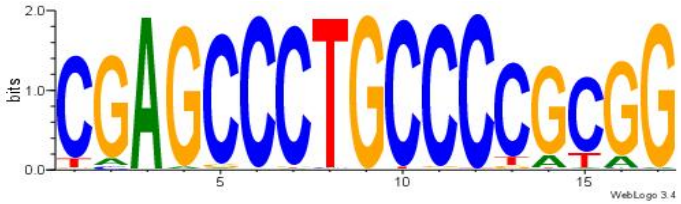

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

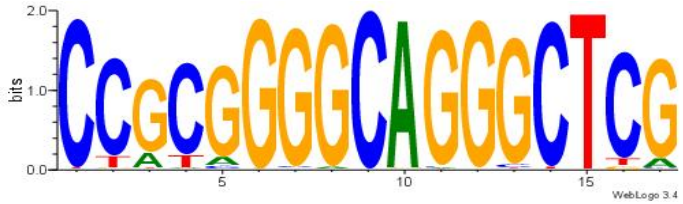

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.107892

Alignment:

```
CAAGCCTSKGCAATGGCAGG
---CACTAGGGAGTGCC---
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

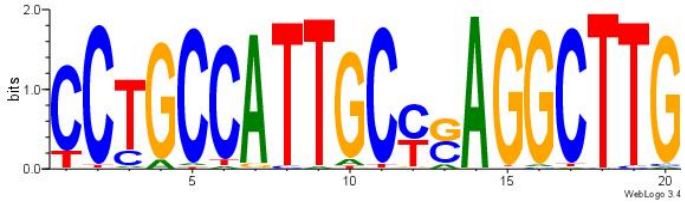

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

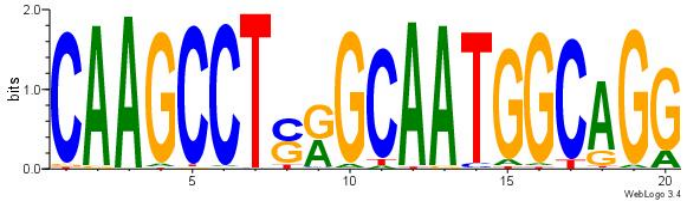

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.108613

Alignment:
CACCAGACTCAGGAGCCCAG
-CACTAGGGAGTGCC-----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

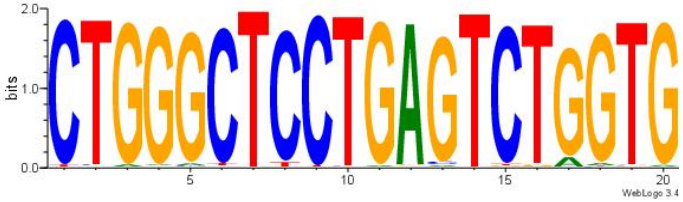

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

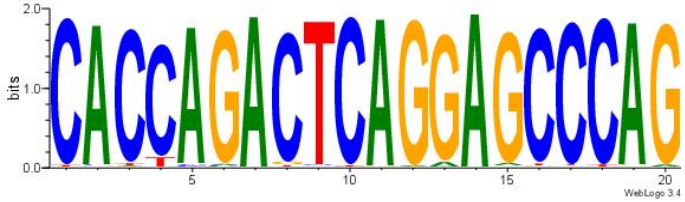

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.109457

Alignment:
CCGCTGCACTGTGGGAGCCC
------CACTAGGGAGTGCC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

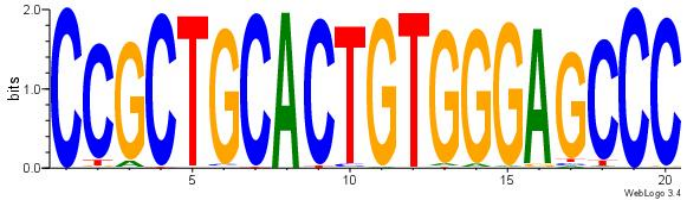

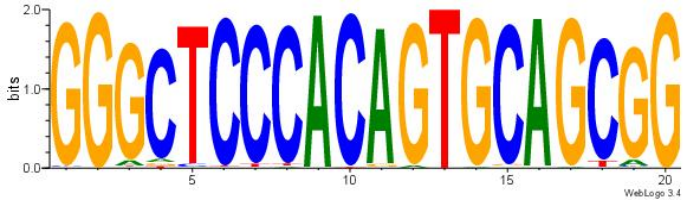

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.110635

Alignment:

```
TAATAAGGGTGTGGG
-CACTAGGGAGTGCC
```

Original motif Consensus sequence: CCCACACCCTTATTA

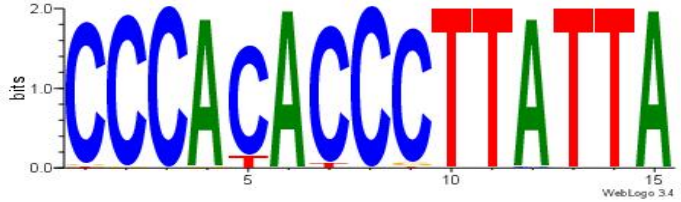

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

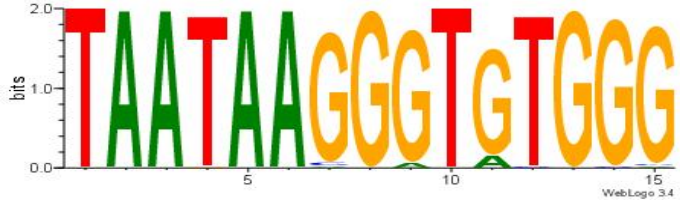

Dataset #:	1
Motif ID:	192

Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.111627

Alignment:

```
GAATCCTGGGACAGCCTGT
--CACTAGGGAGTGCC---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

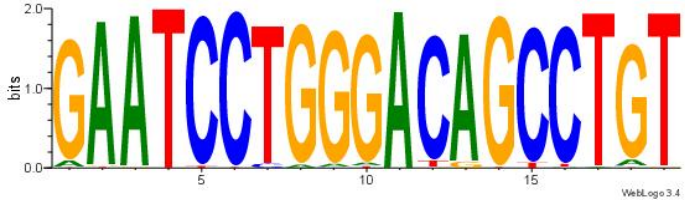

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

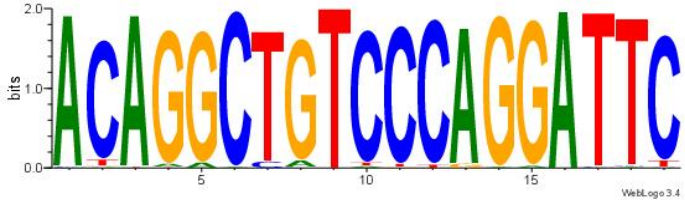

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112702

Alignment:
GCCTCTCCCTCCACACCTCC
------GGCACTCCCTAGTG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

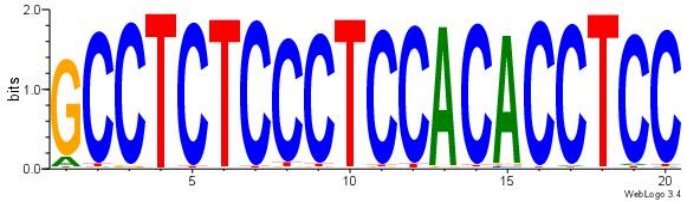

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

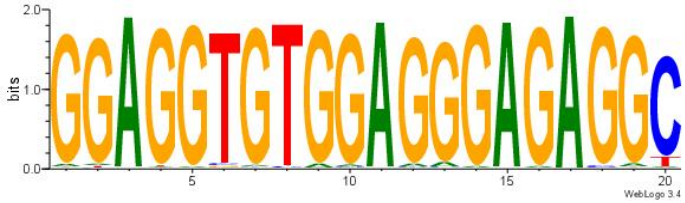

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.115311

Alignment:
ACTCCCTAGTGAGATGAACC
---CACTAGGGAGTGCC---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

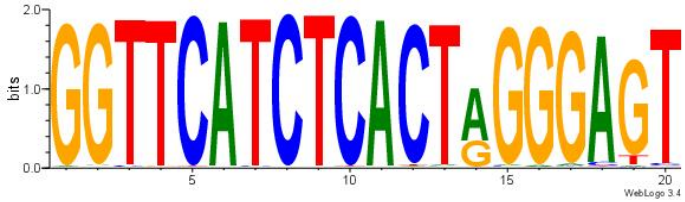

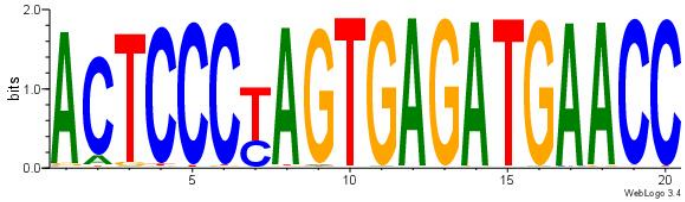

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.117111

Alignment:

```
CATCTGGCAGCCCA
CACTAGGGAGTGCC
```

Original motif Consensus sequence: CATCTGGCAGCCCA

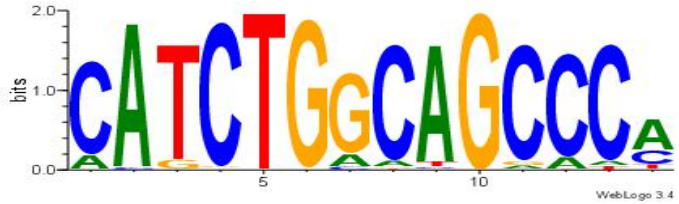

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

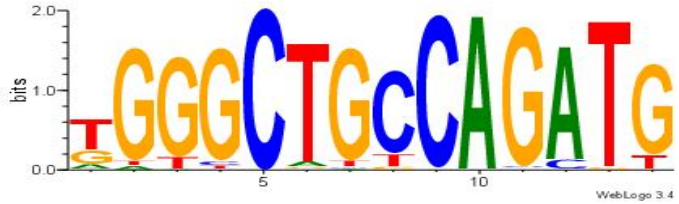

Dataset #:	1
Motif ID:	52

Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.117397

Alignment:

```
GACTGGCAGGCAGCTCCACC
---CACTAGGGAGTGCC---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

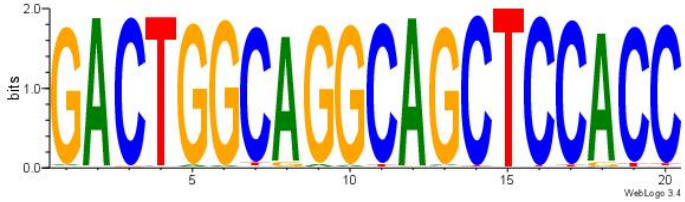

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

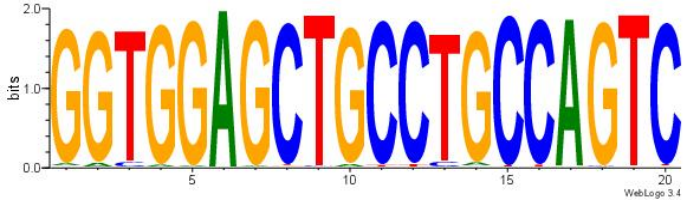

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.118617

Alignment:
CTGACTGGGAGACACCTCCC
--CACTAGGGAGTGCC----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

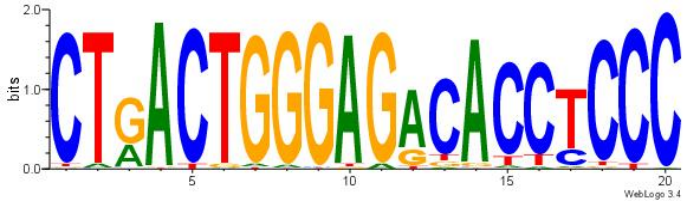

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

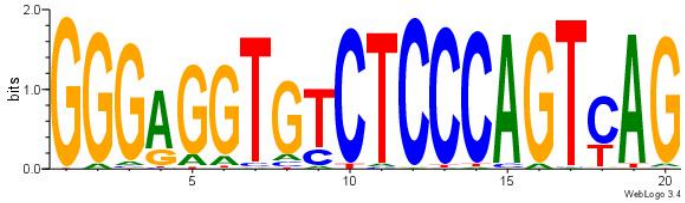

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.118721

Alignment:
GAGACTCCGTGGGCGT
GGCACTCCCTAGTG--

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

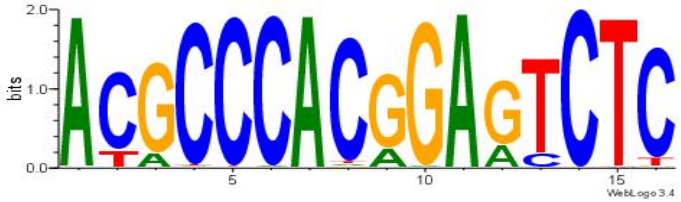

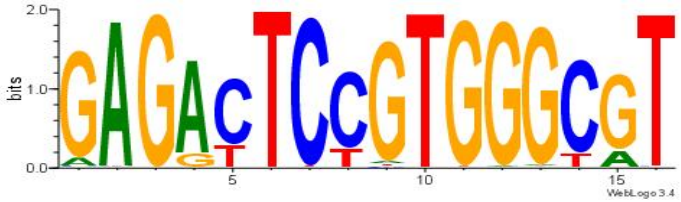

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.118903

Alignment:

```
CCGCACTCGGAGCRG
GGCACTCCCTAGTG-
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

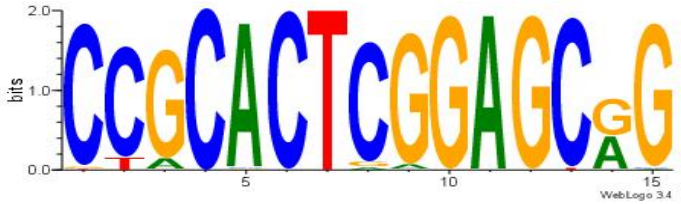

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

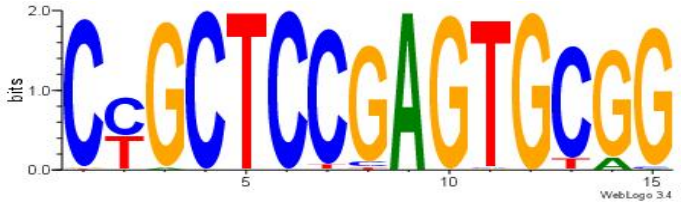

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.119194

Alignment:

```
AGATGCCAGCCAGAGCTCT
---CACTAGGGAGTGCC--
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

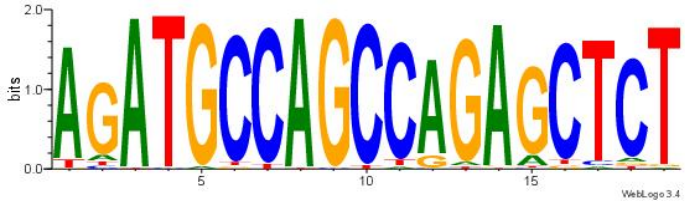

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

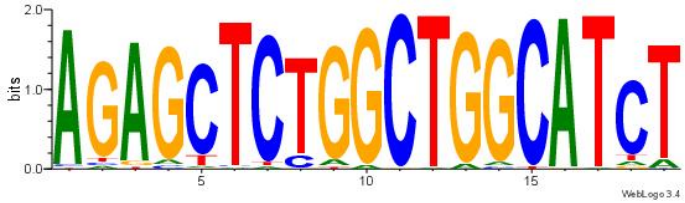

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.119607

Alignment:
TTGAGGAGGCAGTCTG
--CACTAGGGAGTGCC

Original motif Consensus sequence: CAGACTGCCTCCTCAA

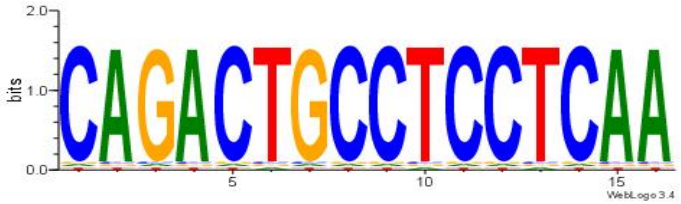

Reverse complement motif Consensus sequence:
TTGAGGAGGCAGTCTG

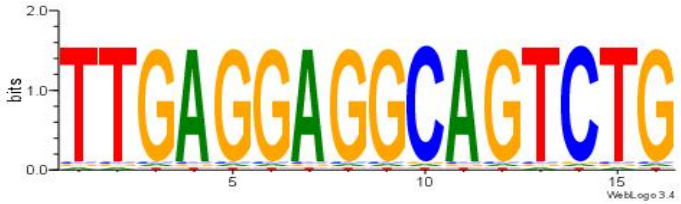

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.119898

Alignment:
ATTAGCYRGGCRTGGTGGC
--GGCACTCCCTAGTG---

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

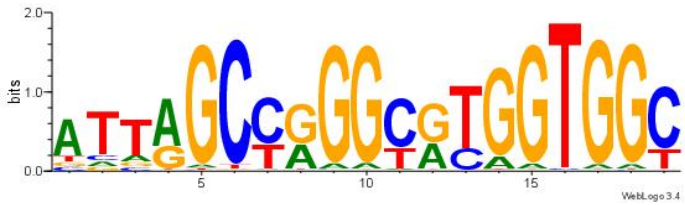

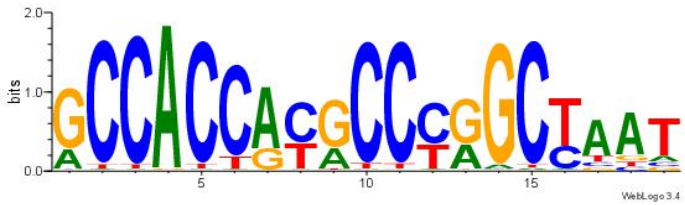

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.120481

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
----CACTAGGGAGTGCC--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

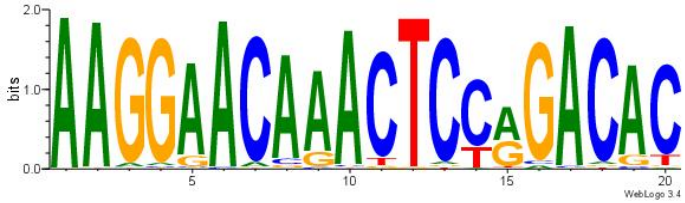

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

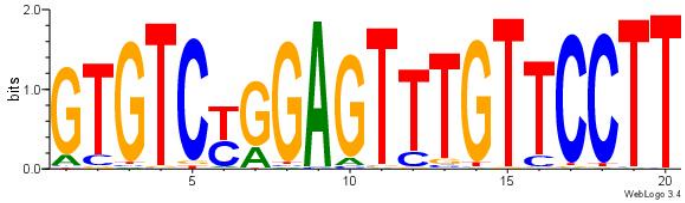

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.120786

Alignment:

```
AAAACCAGCAAGTTTTTAT
--CACTAGGGAGTGCC---
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

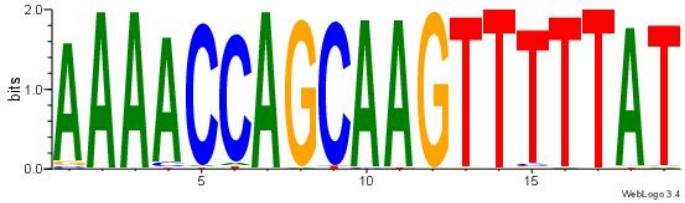

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

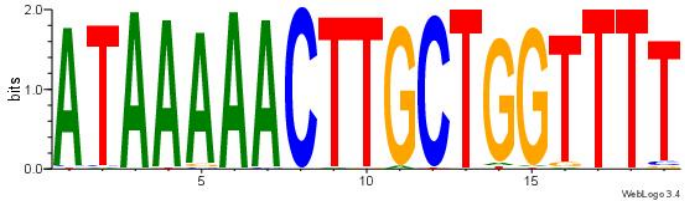

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.121082

Alignment:
ACCCAATWTGTAGTCTTTTA
-GGCACTCCCTAGTG-----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

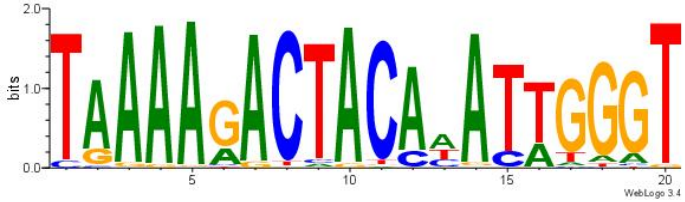

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

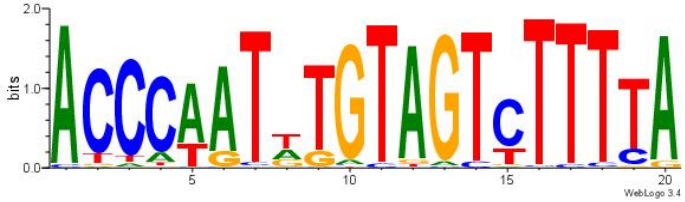

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.121093

Alignment:
CTCCTGACCTCGTGATC
GGCACTCCCTAGTG---

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

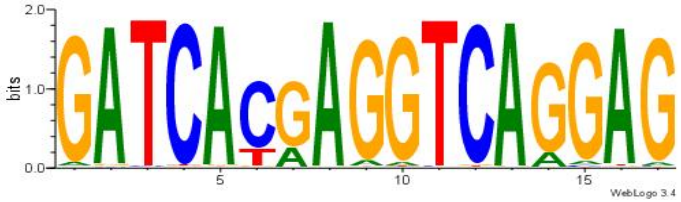

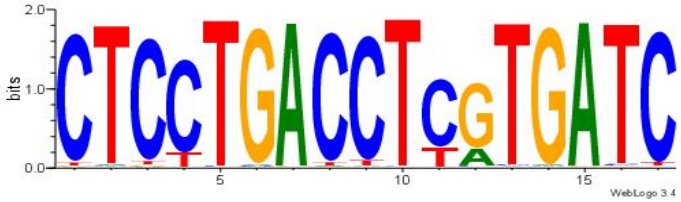

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.121428

Alignment:

```
ATACAATGGGGGTACAGRC
-CACTAGGGAGTGCC----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

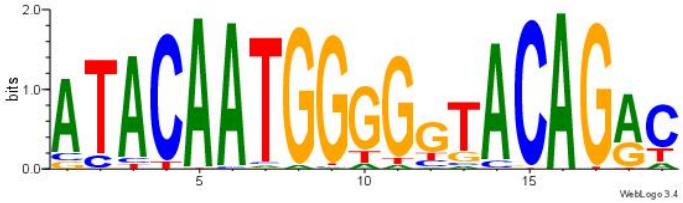

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

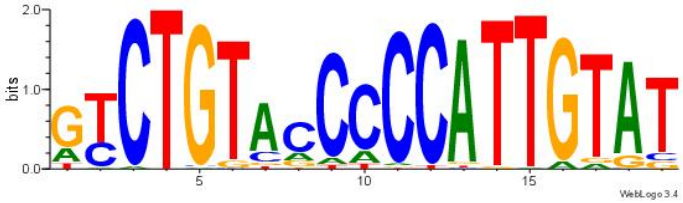

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.122329

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
---CACTAGGGAGTGCC---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

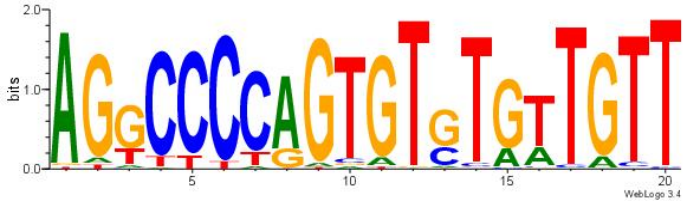

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

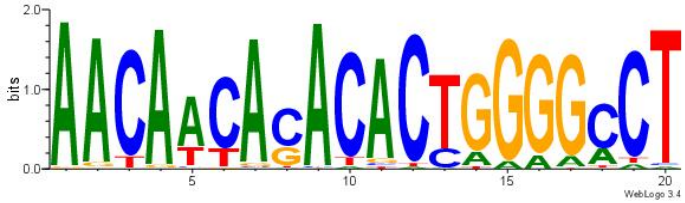

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14

Similarity score: 0.122562

Alignment:
AGGACTGAGGGTGCCYRGGG
------GGCACTCCCTAGTG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

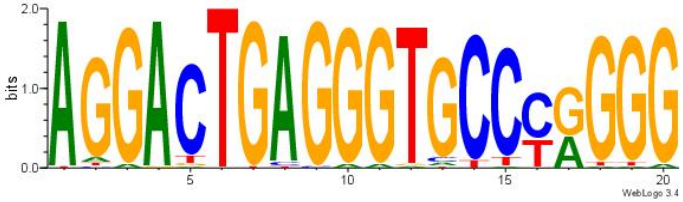

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

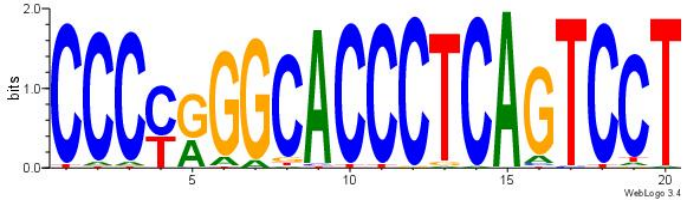

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.12276

Alignment:
GACATGAGCTGGCGCTTG
--CACTAGGGAGTGCC--

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

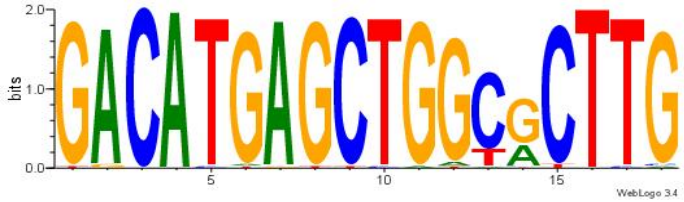

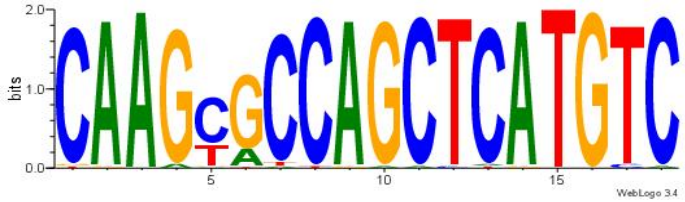

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.123683

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-----GGCACTCCCTAGTG-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

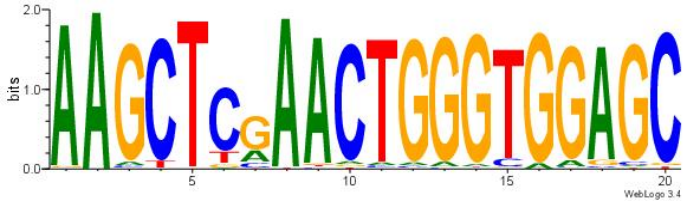

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

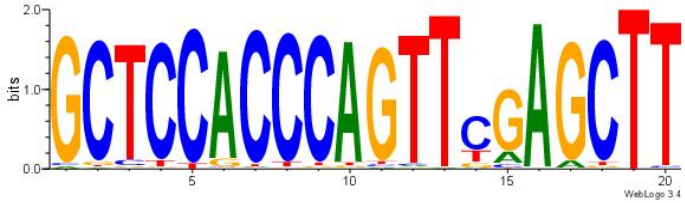

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.124202

Alignment:

```
AAGACCTTCCAGTGGGACAA
GGCACTCCCTAGTG------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

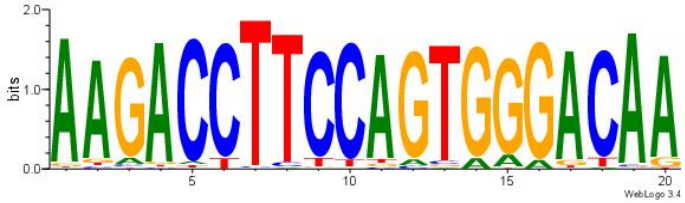

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

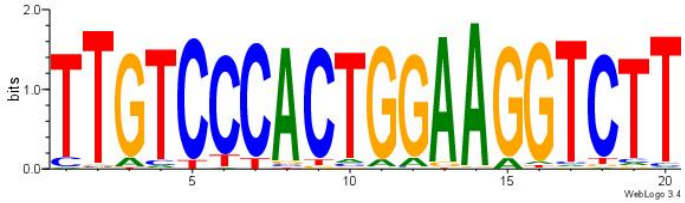

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.12569

Alignment:
GCCKCCCCGTCCGGGAGGGA
---GGCACTCCCTAGTG---

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

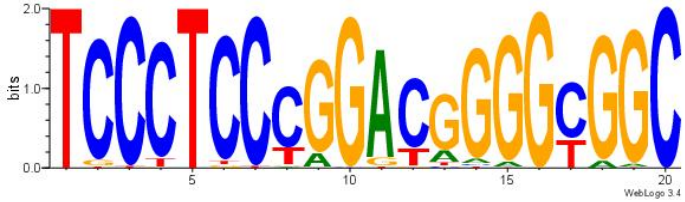

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

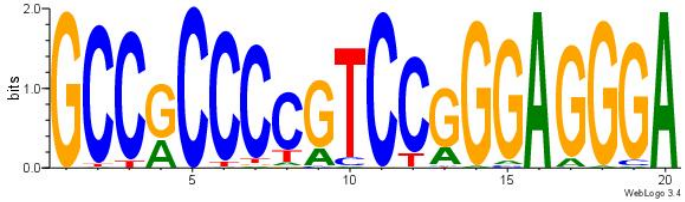

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.125741

Alignment:
CTCCAGKTMCATCCATGTTG
-----GGCACTCCCTAGTG-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

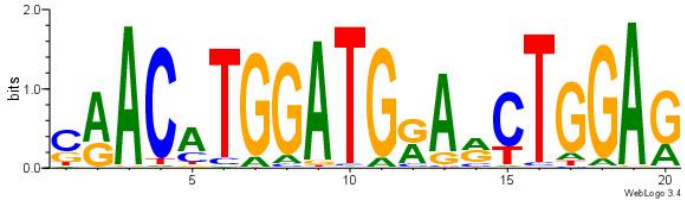

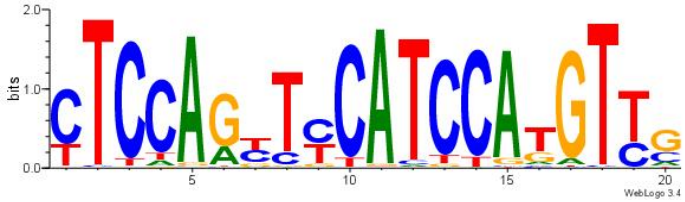

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.125886

Alignment:

```
AAATTACCCAGTCTCAGGTA
-CACTAGGGAGTGCC-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

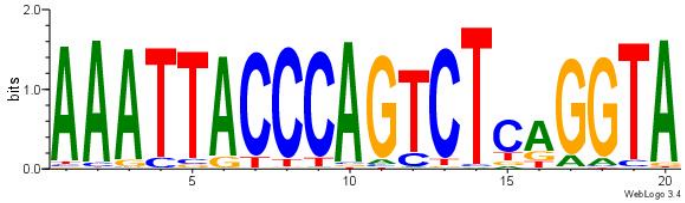

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

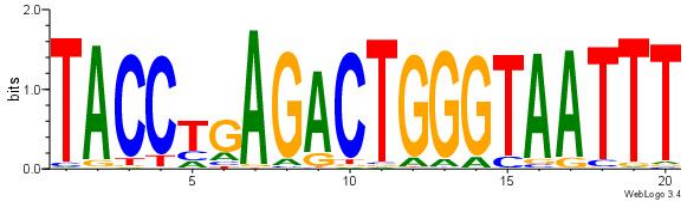

Dataset #: 1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.126015

Alignment:

```
GGTGCCCCTCTGGGACRAA
GGCACTCCCTAGTG-----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

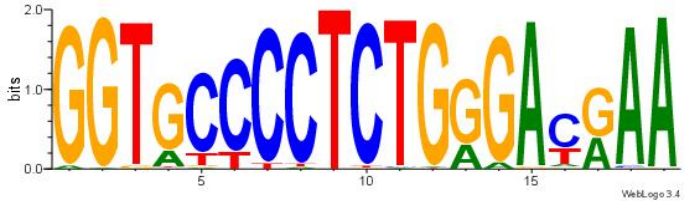

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

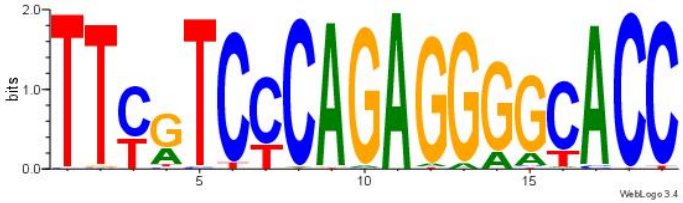

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.126119

Alignment:
AGACAGTGGGYGCAGGHCA
---CACTAGGGAGTGCC--

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

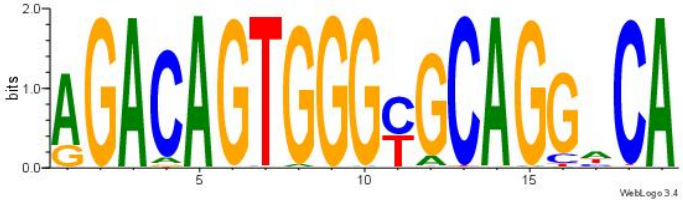

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

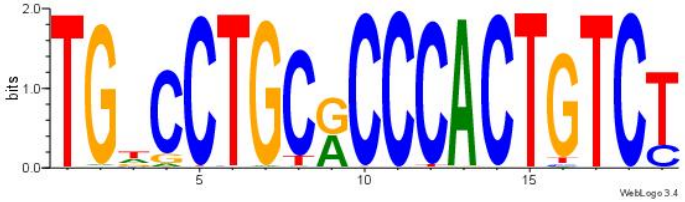

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.126305

Alignment:
TCCAAATGGGAGAAATTGGC
--CACTAGGGAGTGCC----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

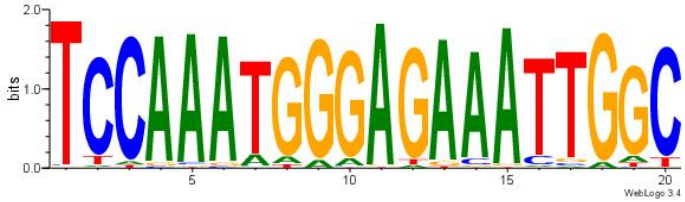

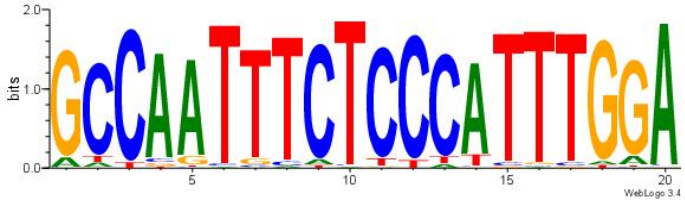

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.126604

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-CACTAGGGAGTGCC-----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

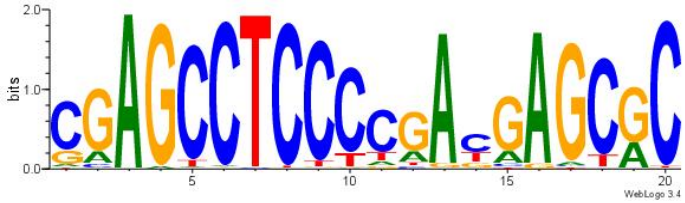

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

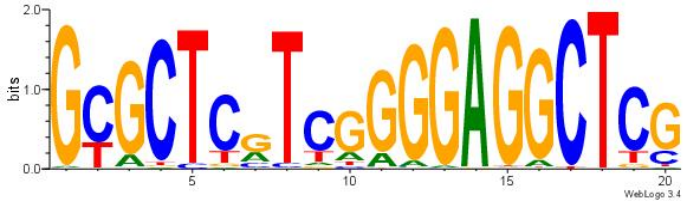

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.127131

Alignment:

```
ACTTTGGACTGTGGACTTTT
------CACTAGGGAGTGCC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

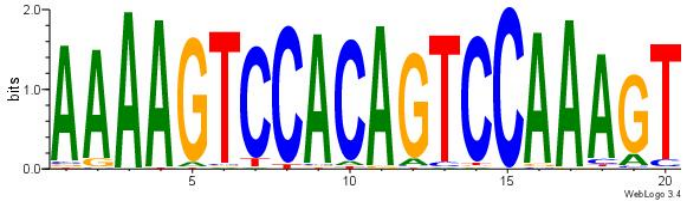

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

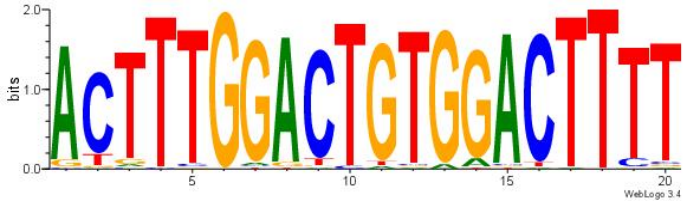

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.127246

Alignment:
TGCCCAGTCTGGAAAGTG
----CACTAGGGAGTGCC

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

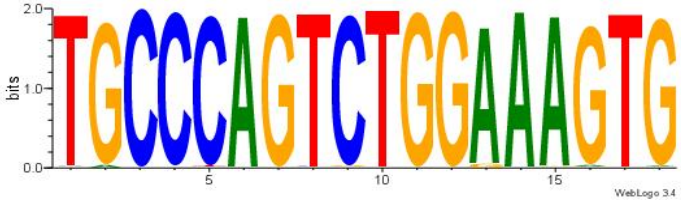

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

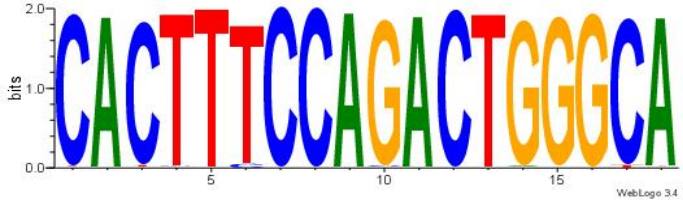

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.127986

Alignment:
GACCTGCAGCCCGCCATG
----GGCACTCCCTAGTG

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

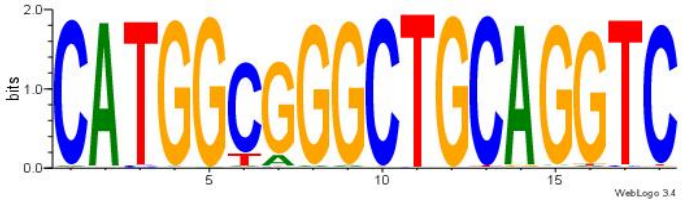

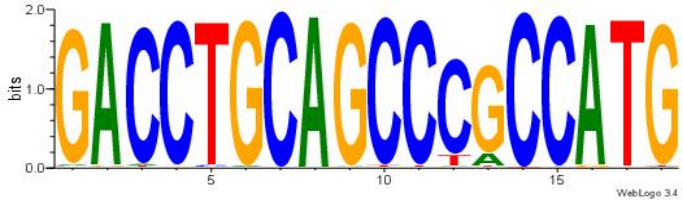

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.128074

Alignment:

```
GCACTCTGTMTCTAGCT
---GGCACTCCCTAGTG
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

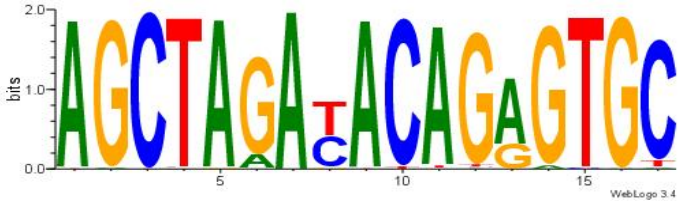

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

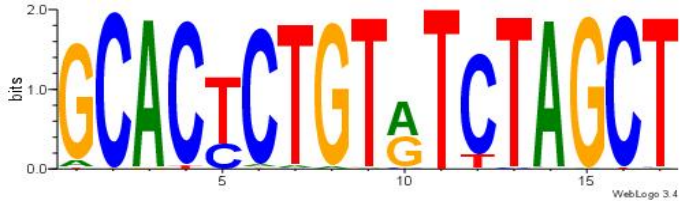

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.128161

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
---GGCACTCCCTAGTG---
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

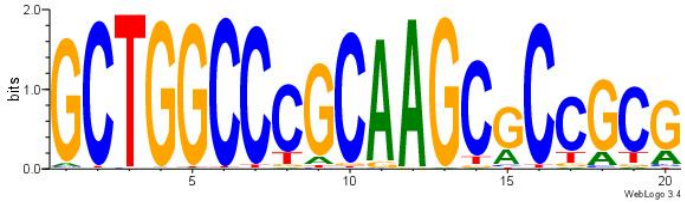

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

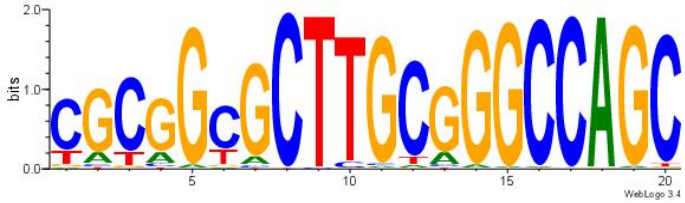

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.128163

Alignment:
GTGCCAGGCACTGTKCTARG
-CACTAGGGAGTGCC-----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

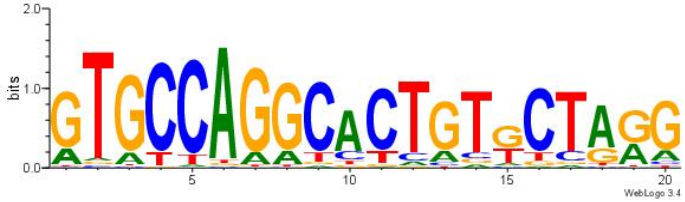

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

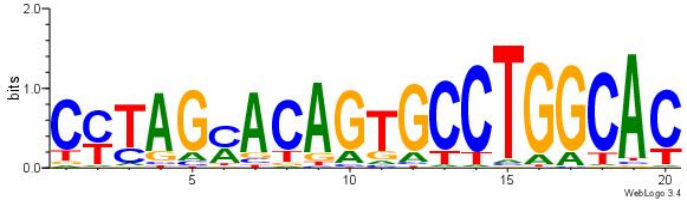

Dataset #: 1 Motif ID: 154 Motif name: Motif 154

Original motif Consensus sequence: CATTAGATTCTCATAGGA

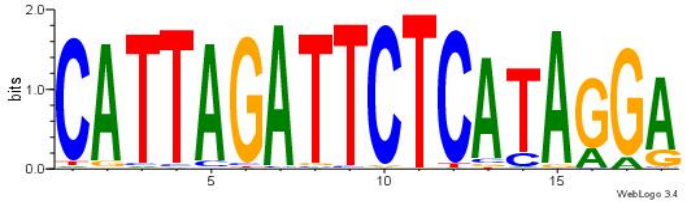

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

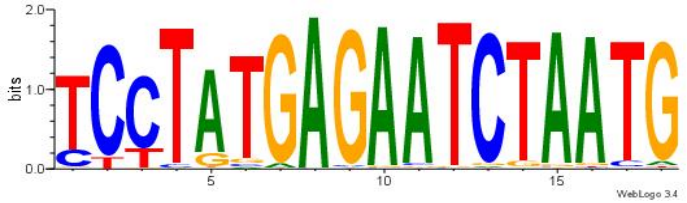

Best Matches for Motif ID 154 (Highest to Lowest)

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.100102

Alignment:

```
GACAGGAGATTAACACTGAG
--CATTAGATTCTCATAGGA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

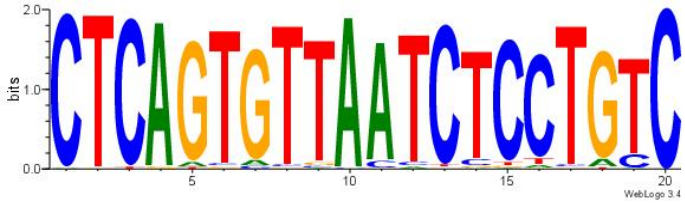

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

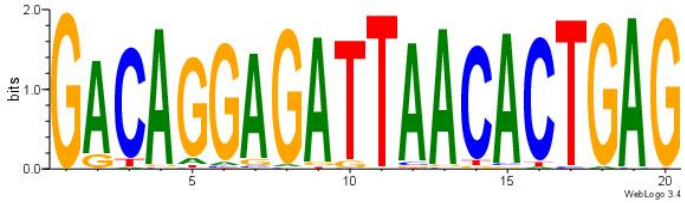

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.111266

Alignment:

TTGGAGGTTCTAGCAGGG
CATTAGATTCTCATAGGA

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

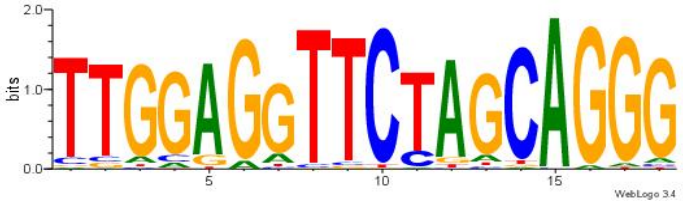

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.114558

Alignment:
CACCAGGAGATTATATCCCR
--TCCTATGAGAATCTAATG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

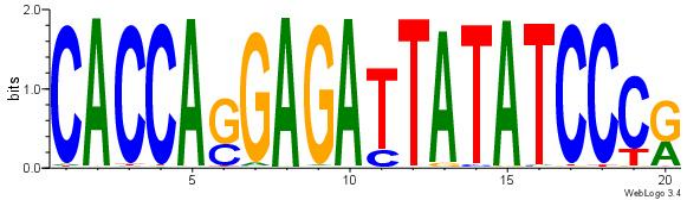

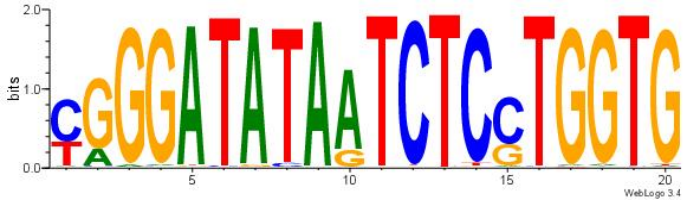

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.116802

Alignment:

```
CTTGCGCTTCCCRRGTGA
CATTAGATTCTCATAGGA
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

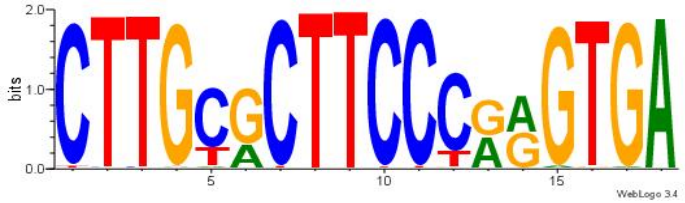

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

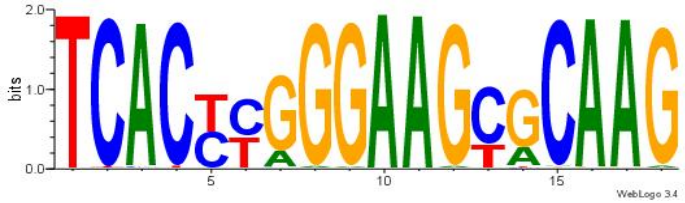

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.117572

Alignment:

```
AAATTACCCAGTCTCAGGTA
-CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

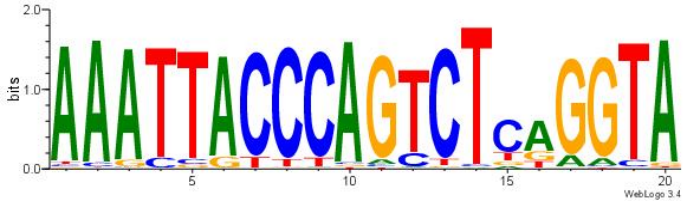

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

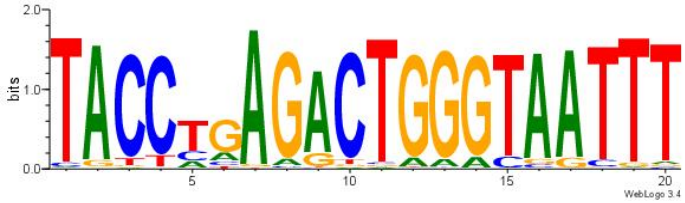

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.118874

Alignment:
TCCAAATGGGAGAAATTGGC
TCCTATGAGAATCTAATG--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

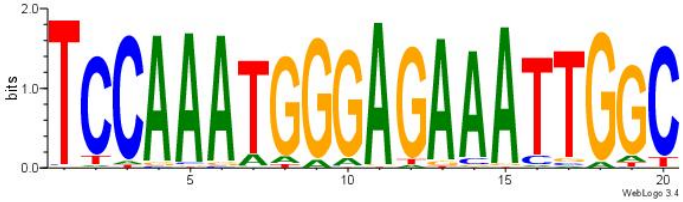

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

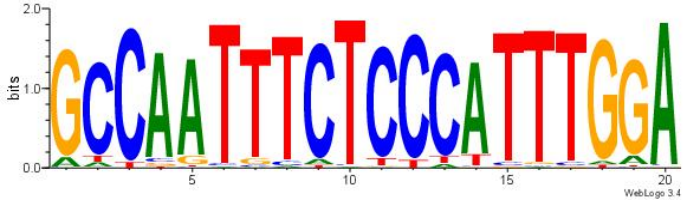

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.121647

Alignment:
GGATTTMKGACTTGCATGGG
TCCTATGAGAATCTAATG--

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

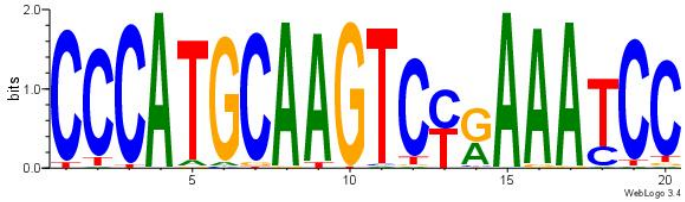

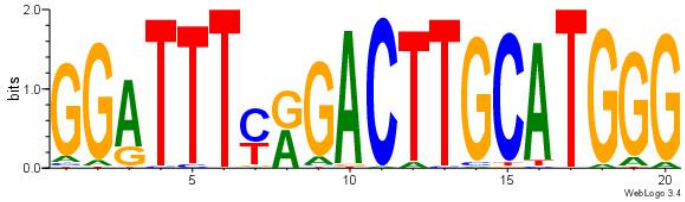

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.122589

Alignment:

```
CTCATTTAATCCTCACAAC
TCCTATGAGAATCTAATG-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

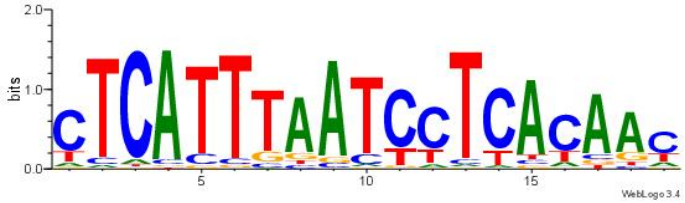

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

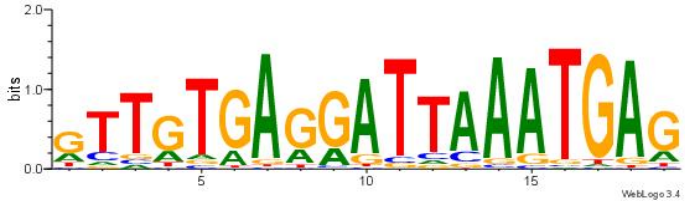

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.123678

Alignment:

```
ACACATCACAAAGCAGTTTC
TCCTATGAGAATCTAATG--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

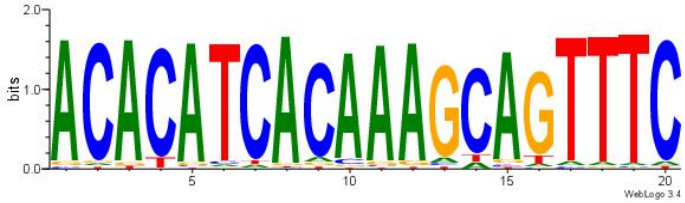

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

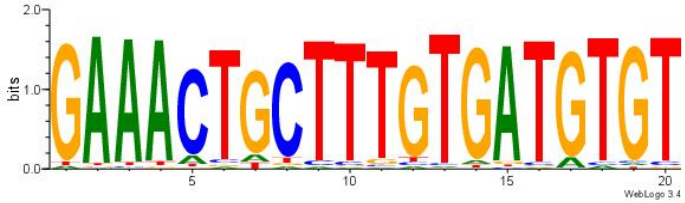

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.125718

Alignment:
AGCTGTGAGAAGAGGGCCAC
TCCTATGAGAATCTAATG--

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

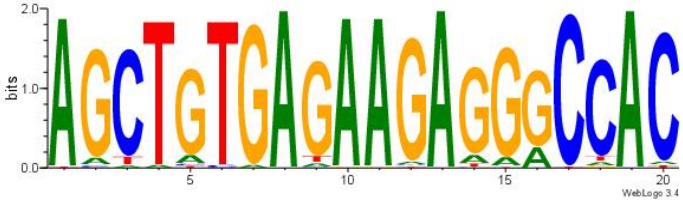

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

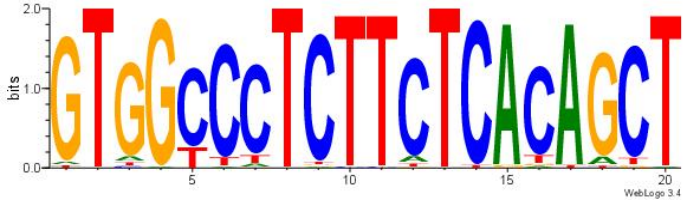

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.125865

Alignment:
TGCTGGAGGTCCACTCCAGA
--CATTAGATTCTCATAGGA

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

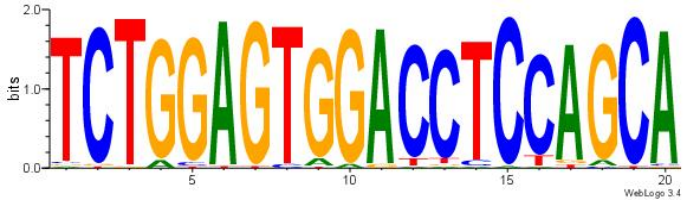

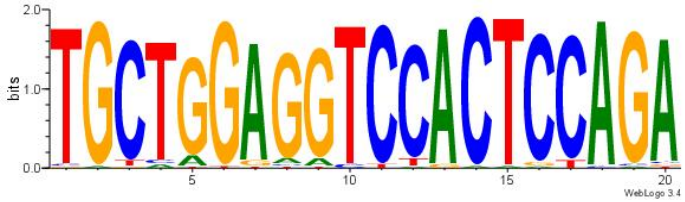

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.129115

Alignment:

```
AGGTCCTTCAGGAGGTATTC
--TCCTATGAGAATCTAATG
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

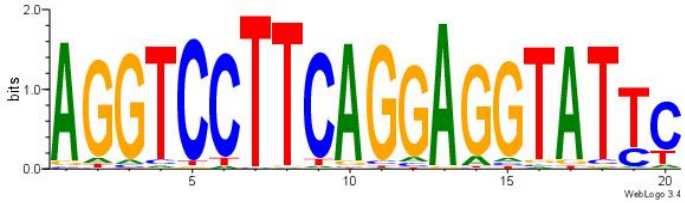

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

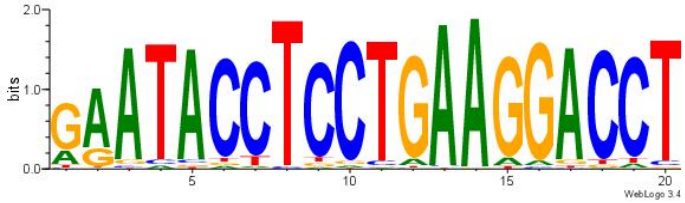

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.129157

Alignment:

```
GTACCTCAGWTGGAAATG
TCCTATGAGAATCTAATG
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

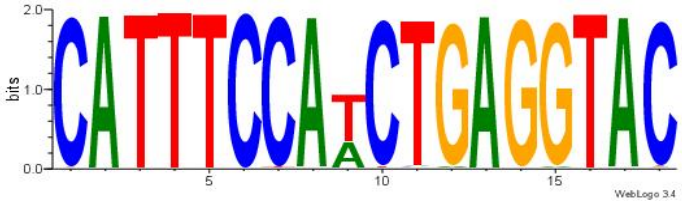

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

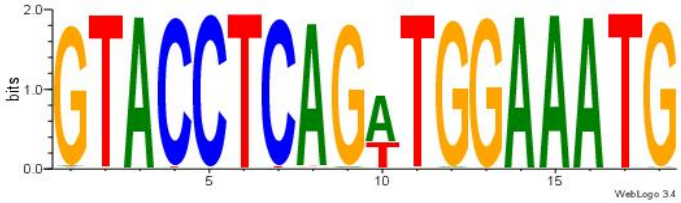

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.129601

Alignment:
GTCTCWAMAAAAAAWAMAAA
-TCCTATGAGAATCTAATG-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

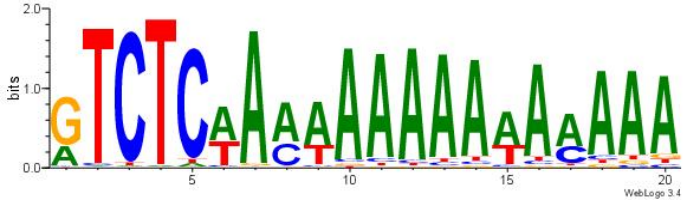

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

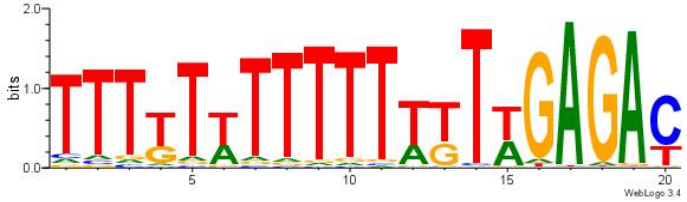

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.129684

Alignment:
GGCATCACGGATCCTACCAA
-TCCTATGAGAATCTAATG-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

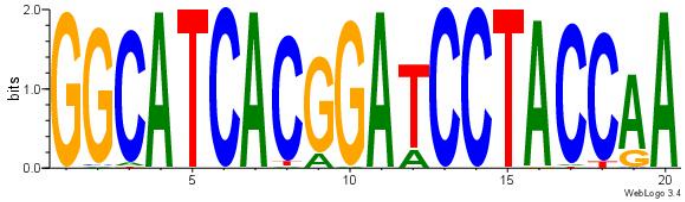

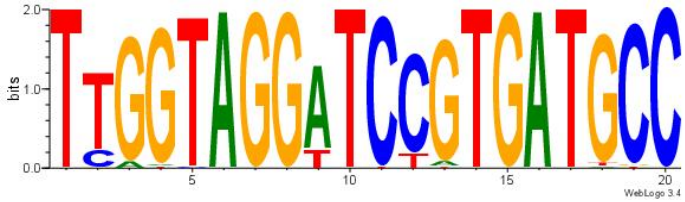

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.1299

Alignment:

```
TCAATGGGCTCCCAAATG
TCCTATGAGAATCTAATG
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

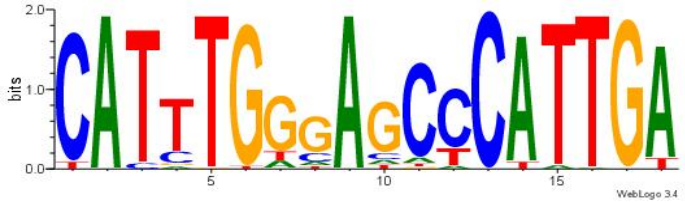

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

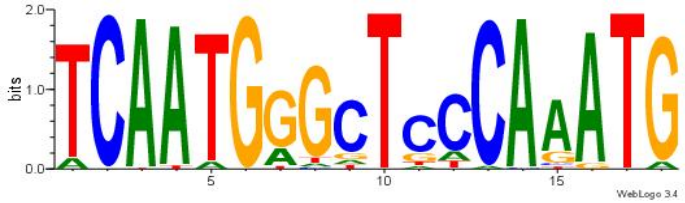

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.12991

Alignment:

```
TAAAAGACTACAWATTGGGT
-CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

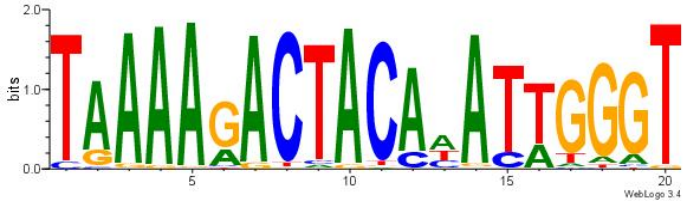

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

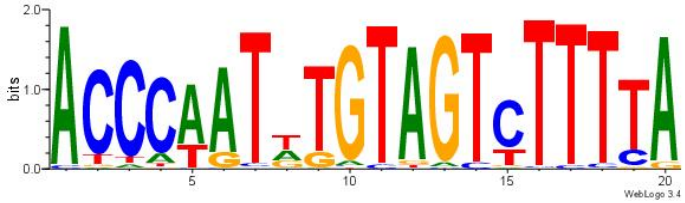

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.130135

Alignment:
TMGGGAGGCTGAGGCAGGAG
-CATTAGATTCTCATAGGA-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

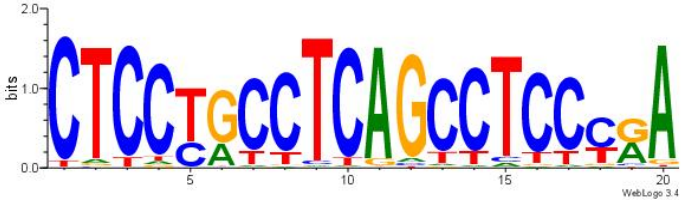

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

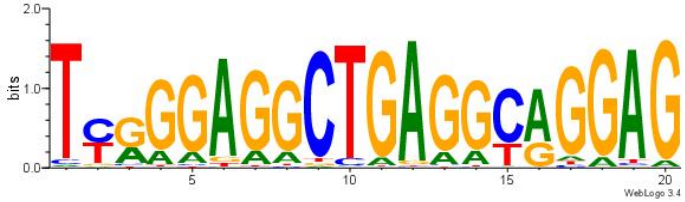

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.131271

Alignment:
ATCRCTTGAGSYCAGGAGKT
-TCCTATGAGAATCTAATG-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

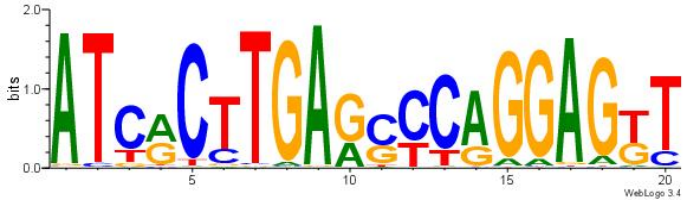

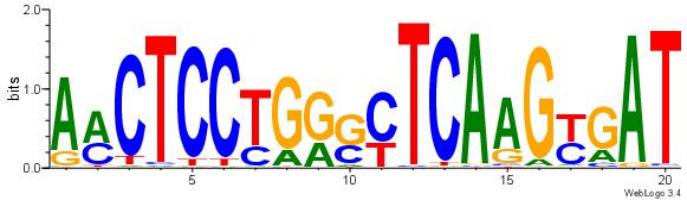

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.132158

Alignment:

```
GACTTCAAGAATGAAGCCG
TCCTATGAGAATCTAATG-
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

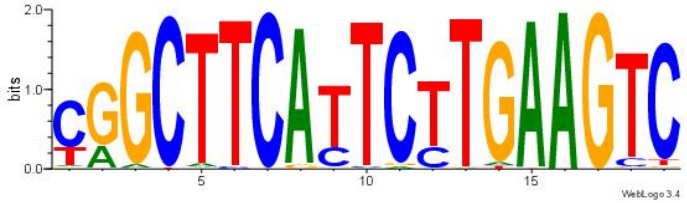

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.132735

Alignment:

```
GGTTCATCTCACTAGGGAGT
CATTAGATTCTCATAGGA--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

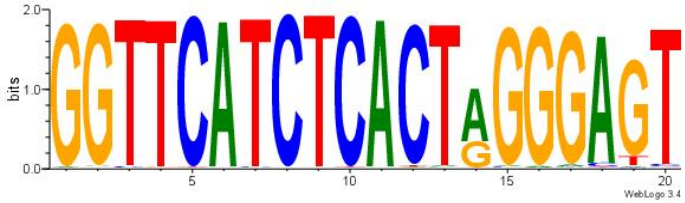

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

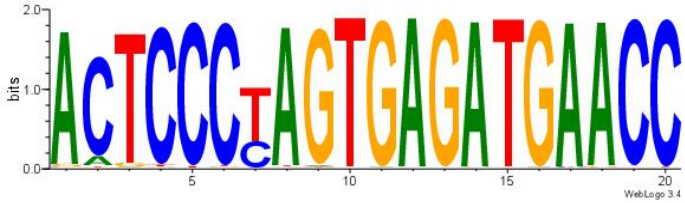

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.13399

Alignment:
AWTKKTGGTTKCCAGKGGCT
-CATTAGATTCTCATAGGA-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

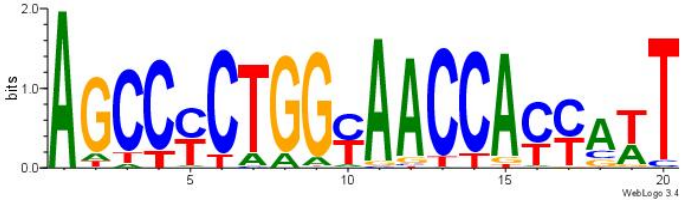

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

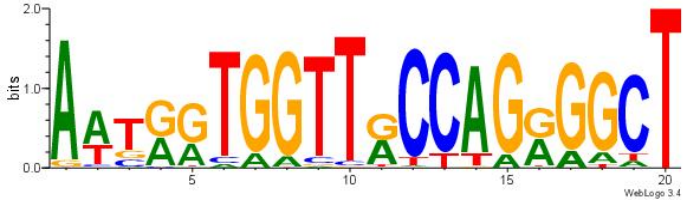

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.134113

Alignment:
AAATTAGGCCAATTAATAAC
TCCTATGAGAATCTAATG--

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

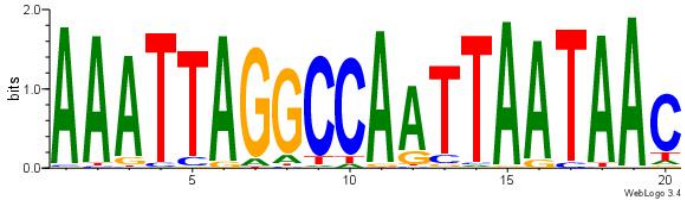

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.134233

Alignment:

```
KACGGGCTTAARAAACGGC
-CATTAGATTCTCATAGGA
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

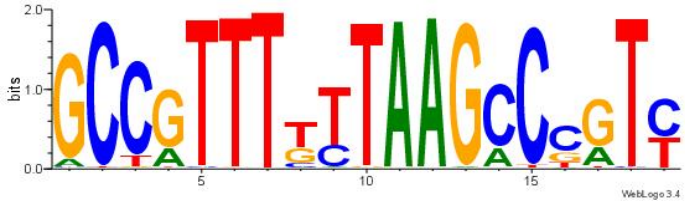

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

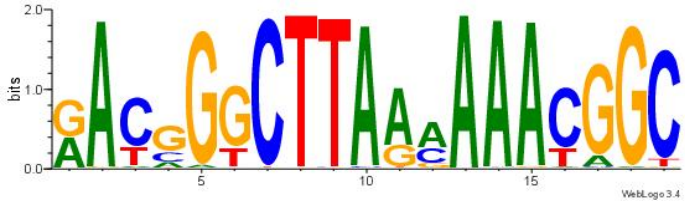

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.134907

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-TCCTATGAGAATCTAATG-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

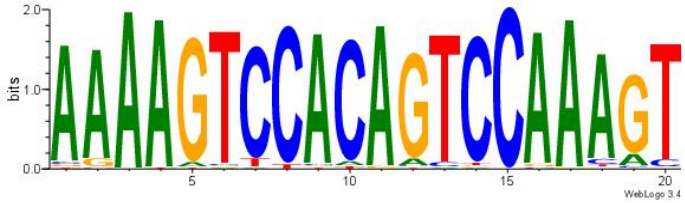

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

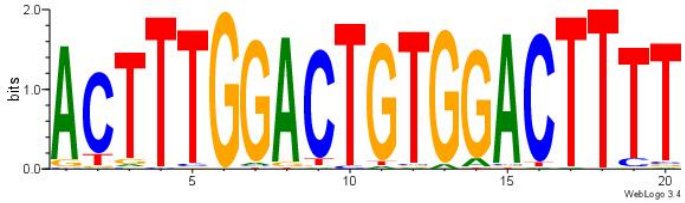

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.134936

Alignment:
CTTGGGTGGTCGATGGGAC
-CATTAGATTCTCATAGGA

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

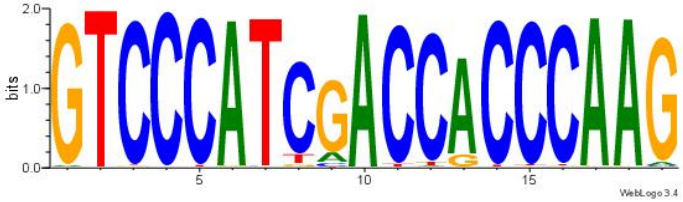

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

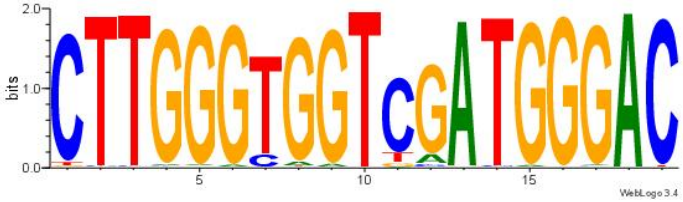

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.134961

Alignment:
CATTCTGGGGTCTGGAGGAY
CATTAGATTCTCATAGGA--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

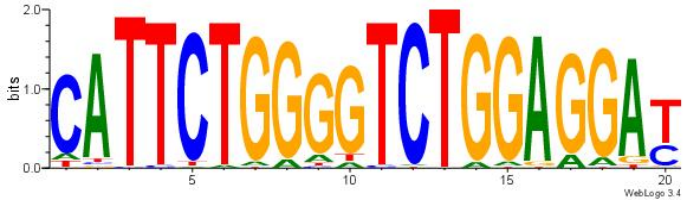

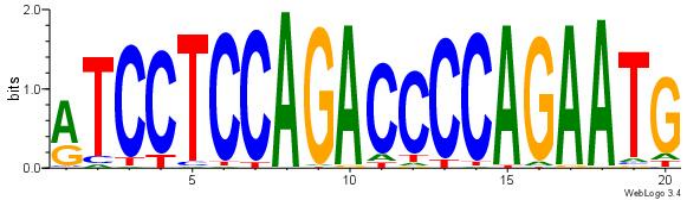

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.135083

Alignment:

```
CTCCAGKTMCATCCATGTTG
--CATTAGATTCTCATAGGA
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

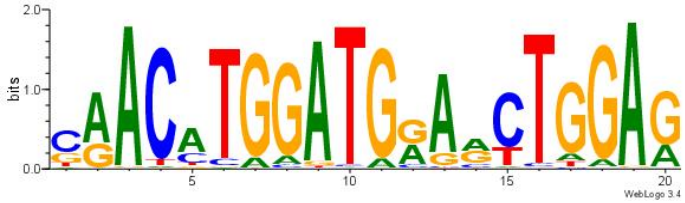

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

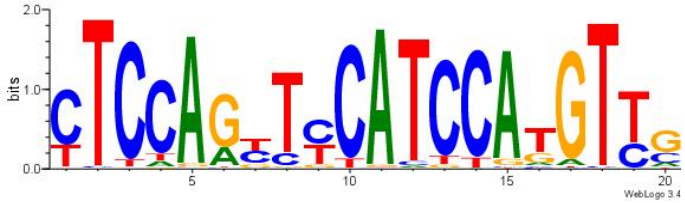

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.135454

Alignment:

```
KKCACCTTGATCTTGGACTT
--TCCTATGAGAATCTAATG
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

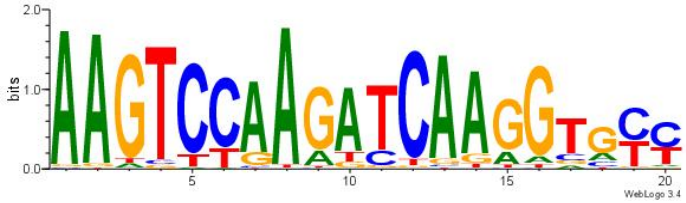

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

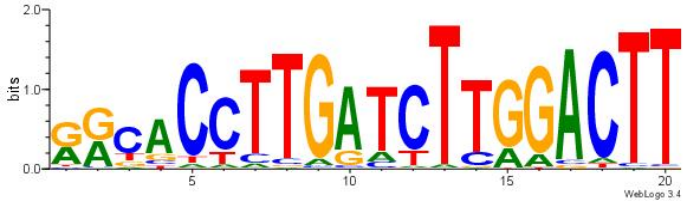

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.135826

Alignment:
GKCTGTACCCCCATTGTAT
CATTAGATTCTCATAGGA-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

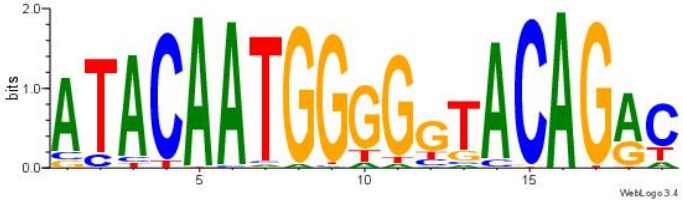

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

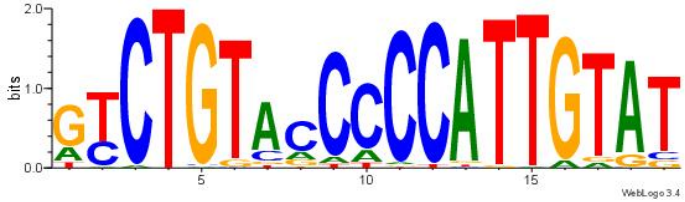

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.136493

Alignment:
AATGAKATCATGTCYTTTGC
--CATTAGATTCTCATAGGA

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

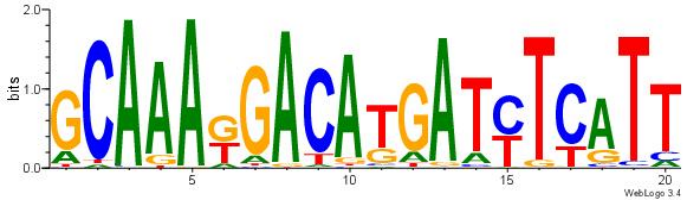

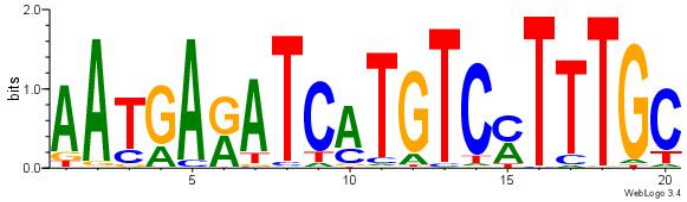

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.137553

Alignment:

```
CAAGTTGACACATAAAATTA
-CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

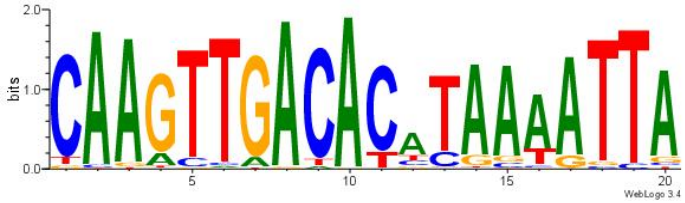

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

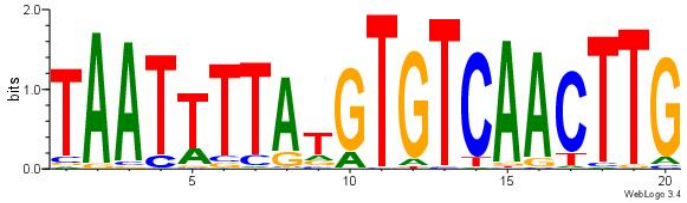

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.137561

Alignment:

```
CACCAGACTCAGGAGCCCAG
--CATTAGATTCTCATAGGA
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

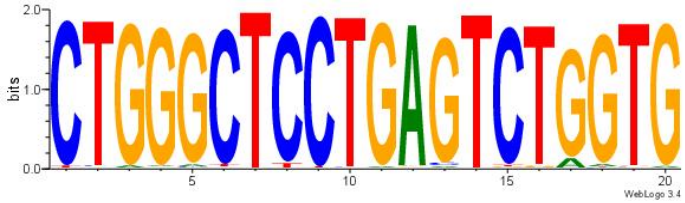

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

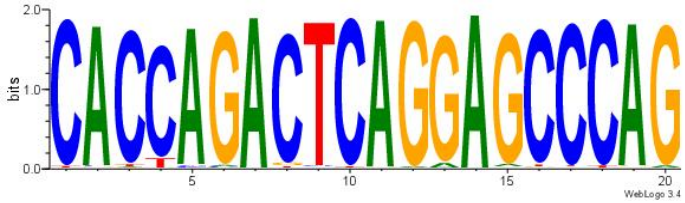

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.137721

Alignment:
ACCGAGMKMGCAGCTTCGGG
-TCCTATGAGAATCTAATG-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

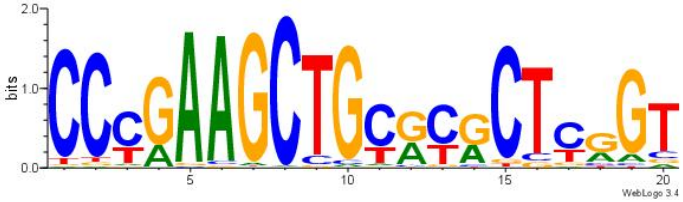

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

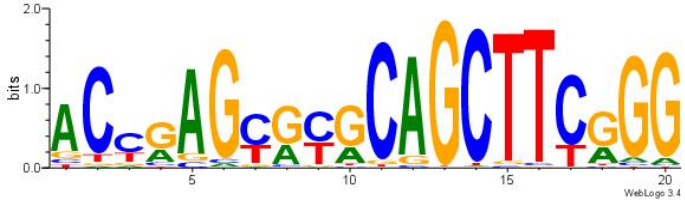

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.137996

Alignment:
TTCAMTCATGATTTGGCTCT
TCCTATGAGAATCTAATG--

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

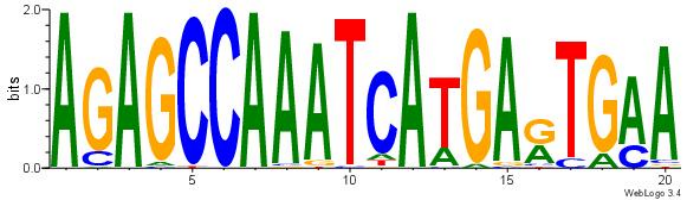

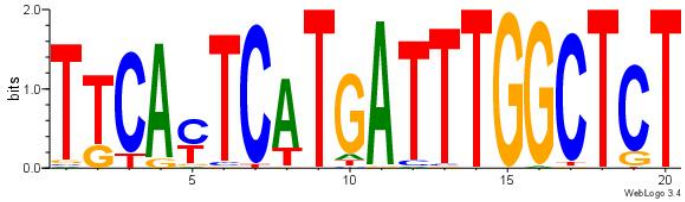

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.138046

Alignment:

```
HAGTGGKATTGCTGGATCAT
-CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

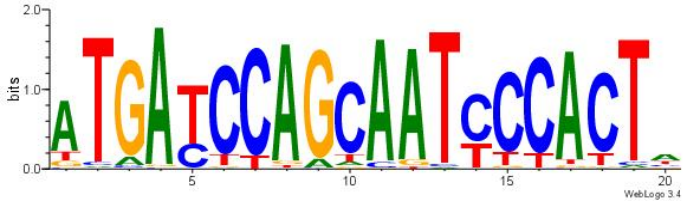

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

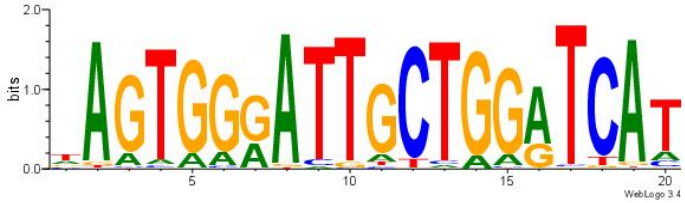

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.138208

Alignment:

```
CMCAGTTCACAATAGGGTT
-TCCTATGAGAATCTAATG
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

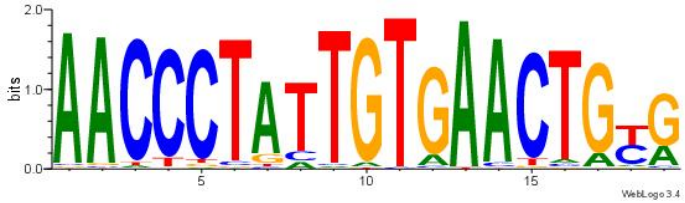

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

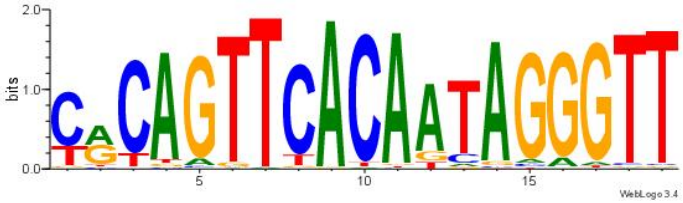

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.138484

Alignment:
AGGCCCCAGTGTSTGTTGTT
--TCCTATGAGAATCTAATG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

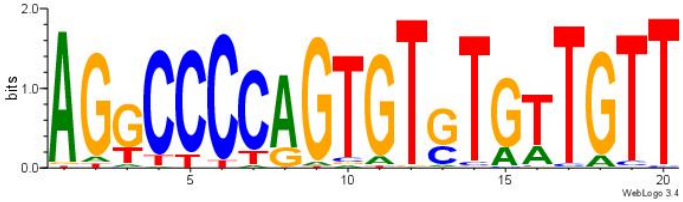

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

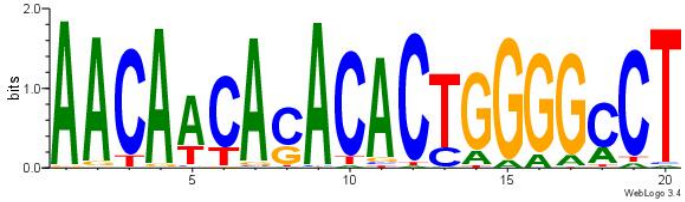

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.138487

Alignment:
TTMGTCCCAGAGGGGCACC
-TCCTATGAGAATCTAATG

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

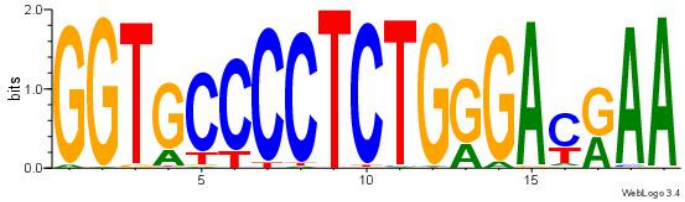

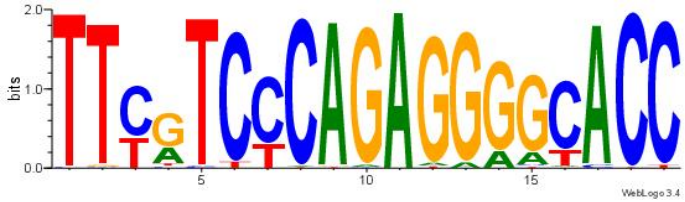

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.138715

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-TCCTATGAGAATCTAATG-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

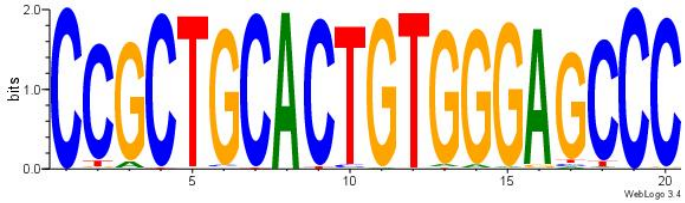

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

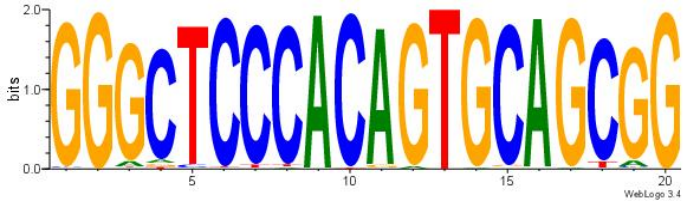

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.138945

Alignment:

```
GCACATGTAYCCYAGAACTT
-CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

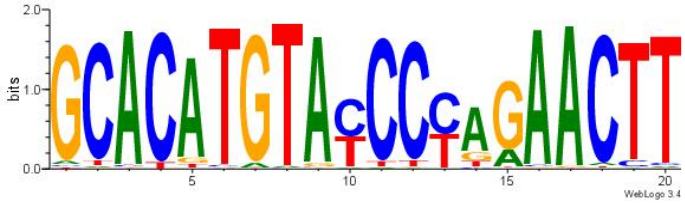

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

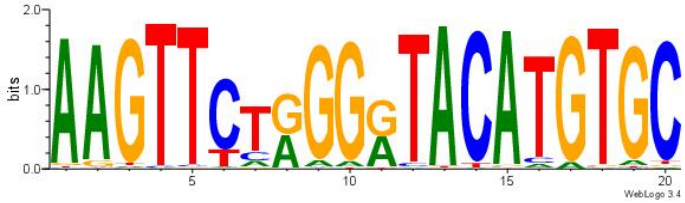

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.138972

Alignment:
GGGAGGTGTCTCCCAGTCAG
CATTAGATTCTCATAGGA--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

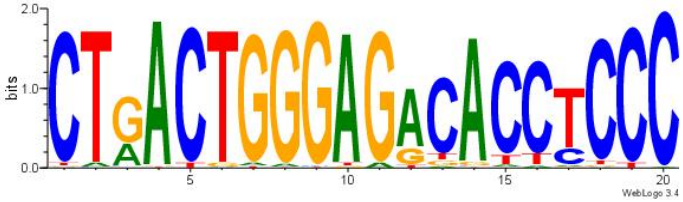

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

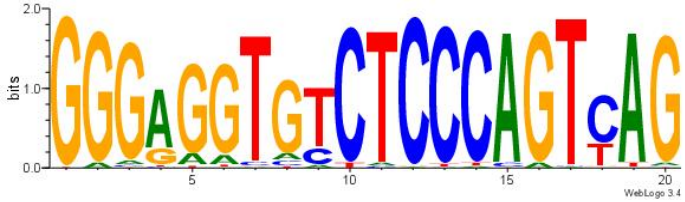

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.139392

Alignment:
GGTCAGGATCATCAATAT
TCCTATGAGAATCTAATG

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

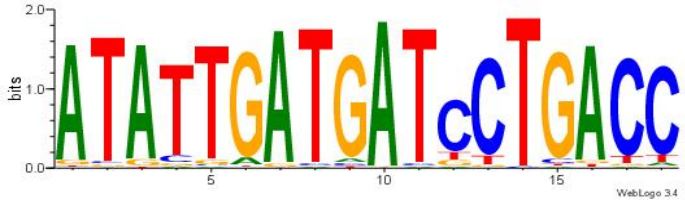

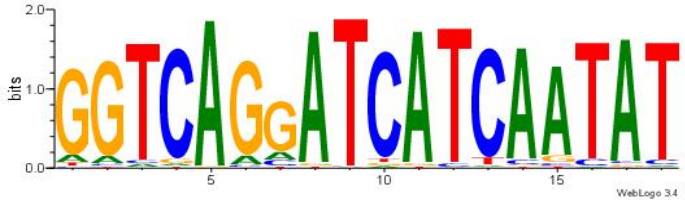

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.139591

Alignment:

```
AATTAAAAGACACAGACTG
-CATTAGATTCTCATAGGA
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

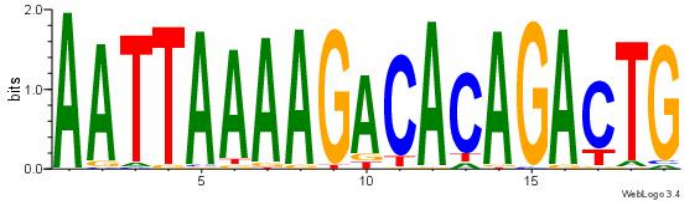

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

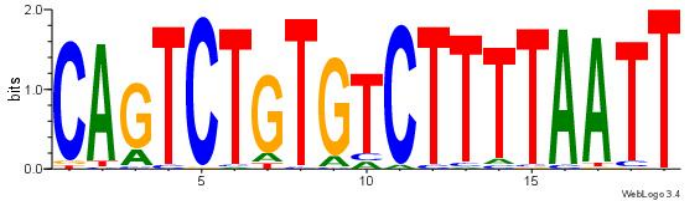

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.139612

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
--TCCTATGAGAATCTAATG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

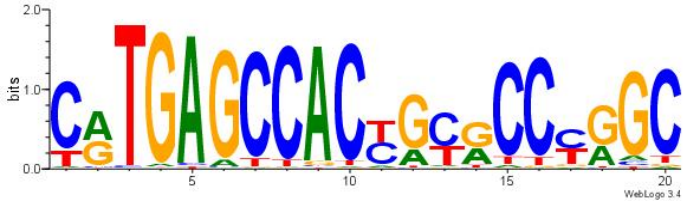

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

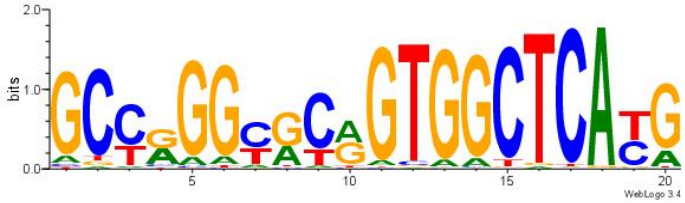

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.13974

Alignment:
AAAATGTGGTAYATAYAYAC
--CATTAGATTCTCATAGGA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

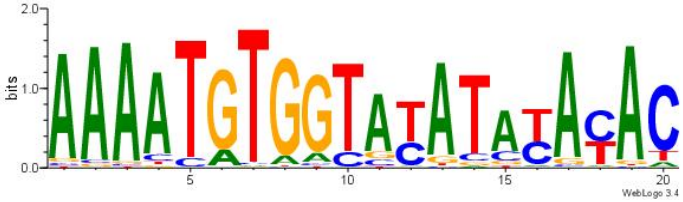

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

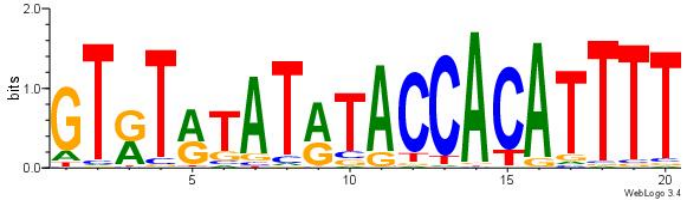

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.139958

Alignment:
CTATTGTGAATARTGCTGC
TCCTATGAGAATCTAATG-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

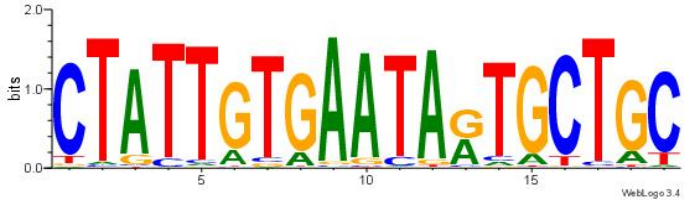

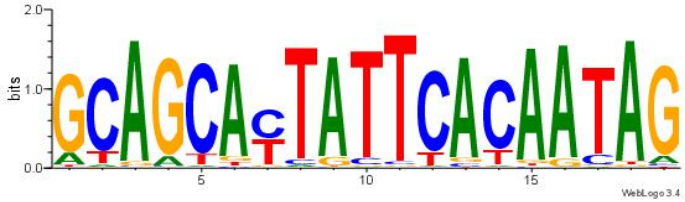

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.140544

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

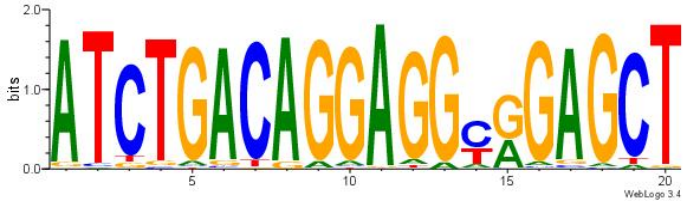

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

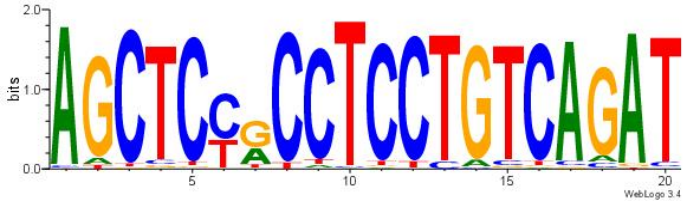

Dataset #:	1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.141004

Alignment:

```
TAGTGGTGATTTSTGAGAT
CATTAGATTCTCATAGGA-
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

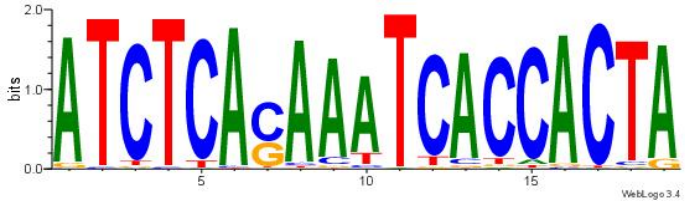

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

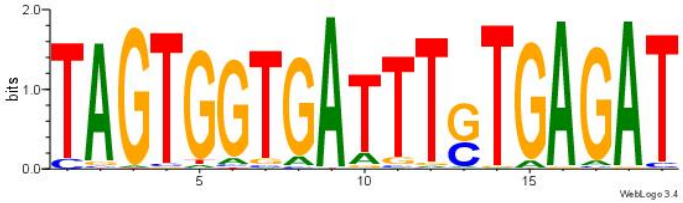

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.141495

Alignment:
AGGACTGAGGGTGCCYRGGG
--TCCTATGAGAATCTAATG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

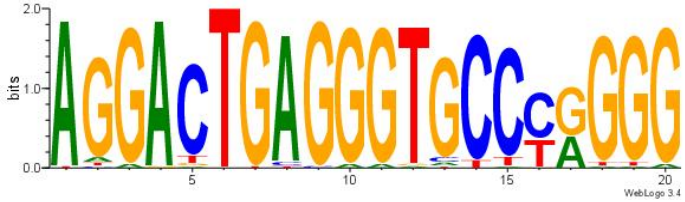

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

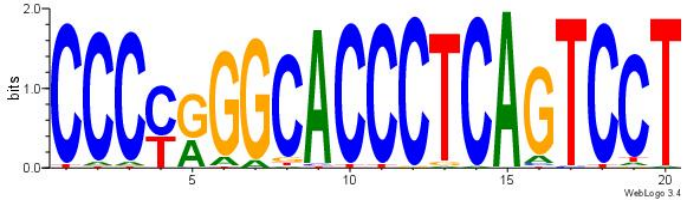

Dataset #: 1 Motif ID: 155 Motif name: Motif 155

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

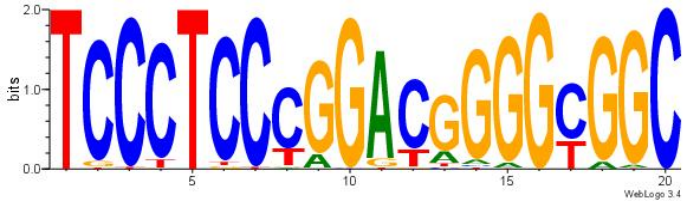

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

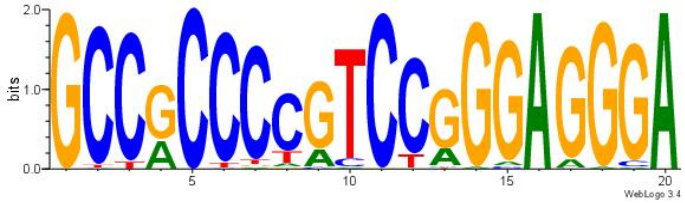

Best Matches for Motif ID 155 (Highest to Lowest)

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112683

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

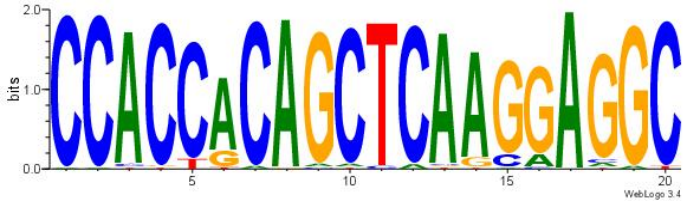

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

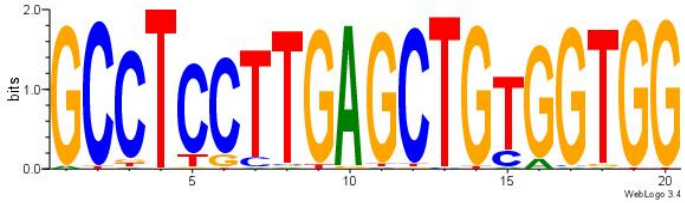

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117283

Alignment:

ACCKTCGCGGTGAGTGTTAC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

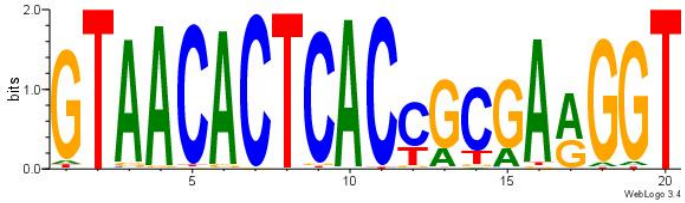

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

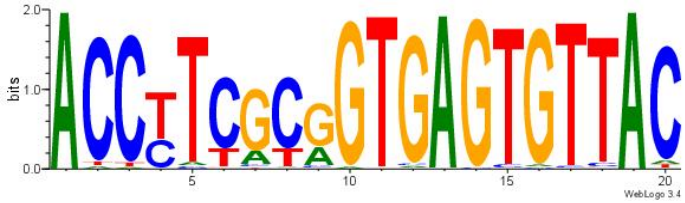

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121478

Alignment:
TCCAAATGGGAGAAATTGGC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

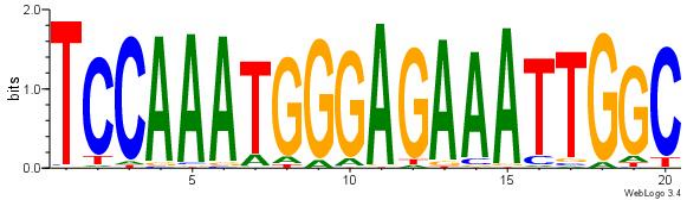

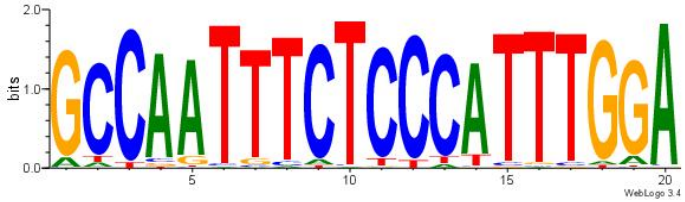

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122155

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

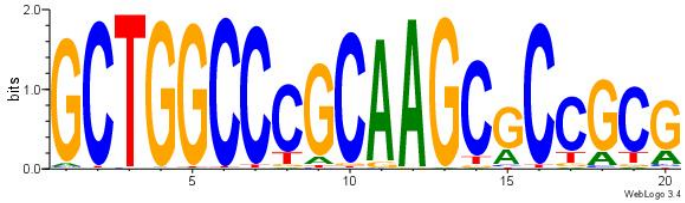

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

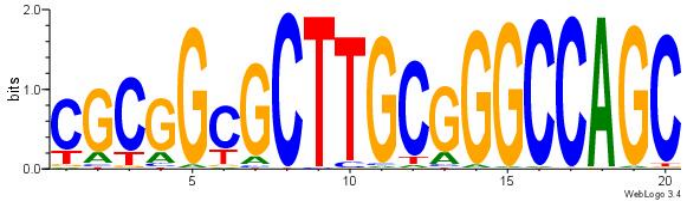

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125857

Alignment:
AGCTCMKCCTCCTGTCAGAT
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

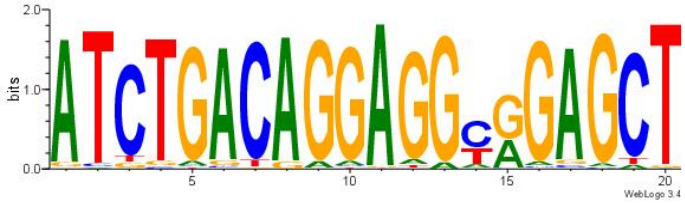

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

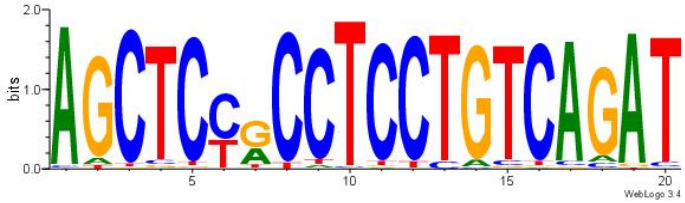

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.127376

Alignment:
GGAGGTGTGGAGGGAGAGGC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

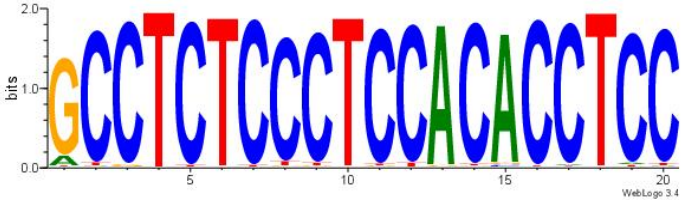

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

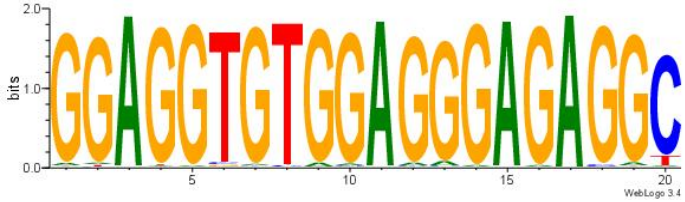

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130506

Alignment:
TGGCTTCACCCAGTGGATCC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

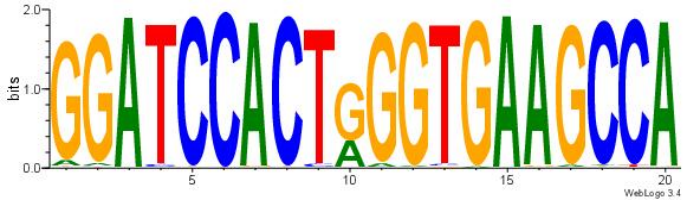

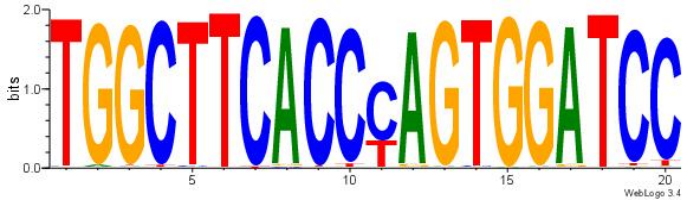

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131543

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

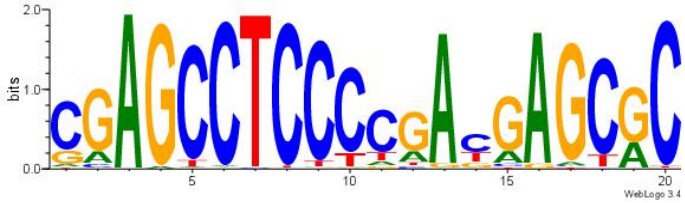

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

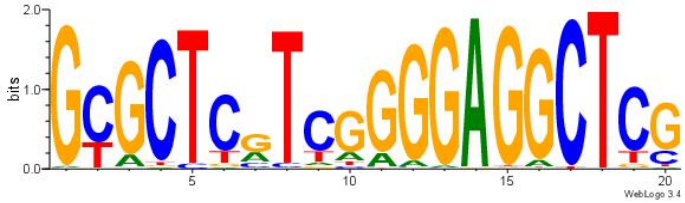

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131853

Alignment:

```
AGAGCCAAATCATGARTGAA
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

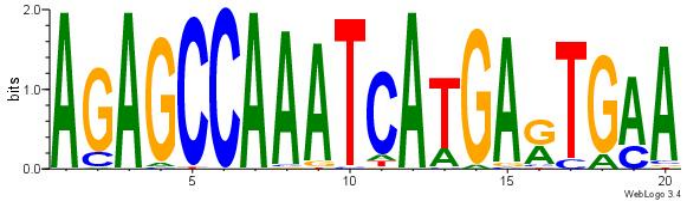

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

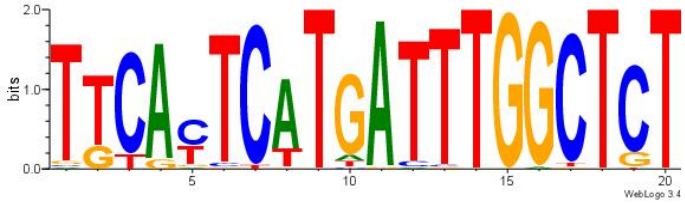

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132659

Alignment:
GCTGGAGTGCAGTGGCRYGA
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

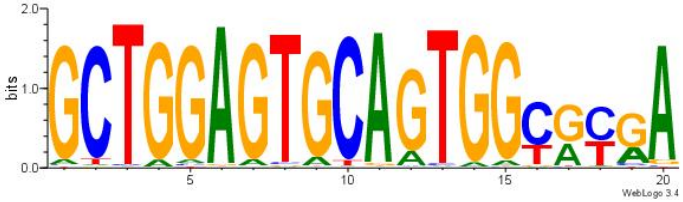

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

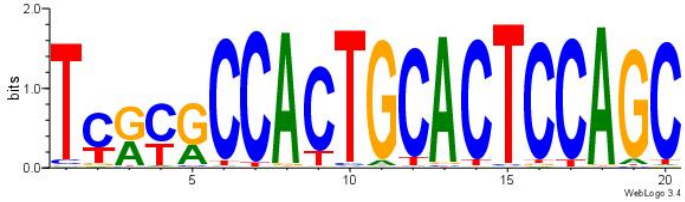

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13385

Alignment:
CATTCTGGGGTCTGGAGGAY
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

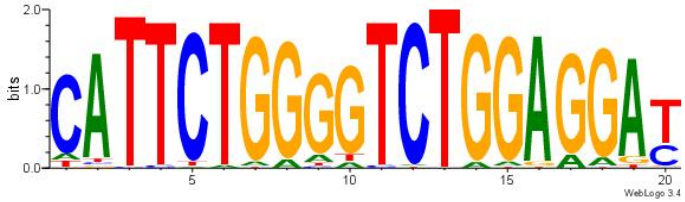

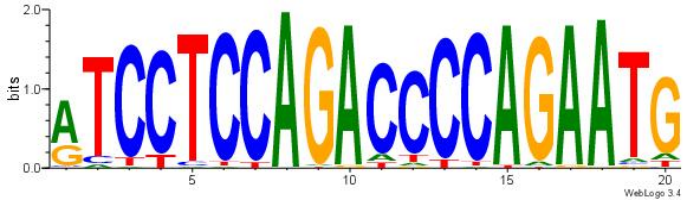

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134808

Alignment:
GGATTTMKGACTTGCATGGG
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

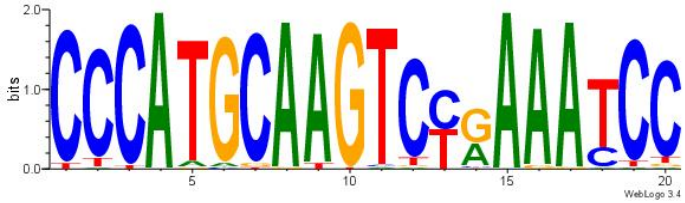

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

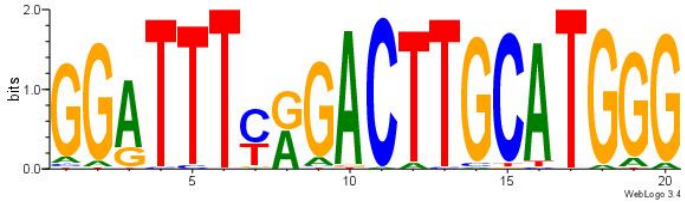

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135395

Alignment:

```
GCCAGTCACAAAARGACAMA
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

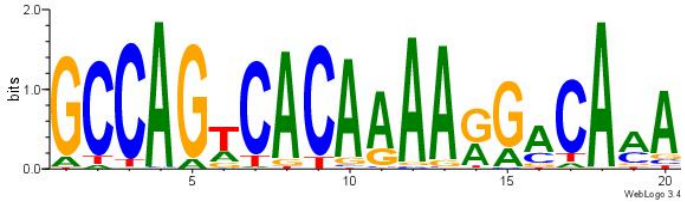

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

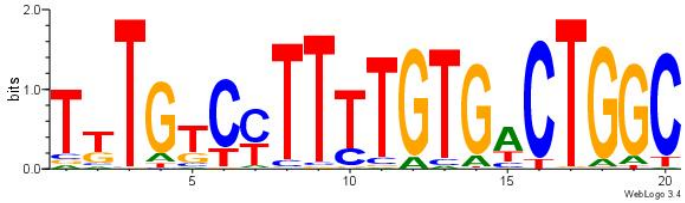

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.135812

Alignment:
GGAGCCGGCTCCCTCAGCTT
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

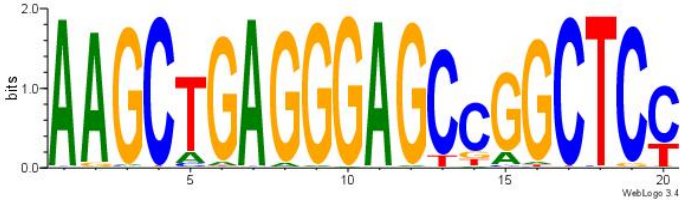

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

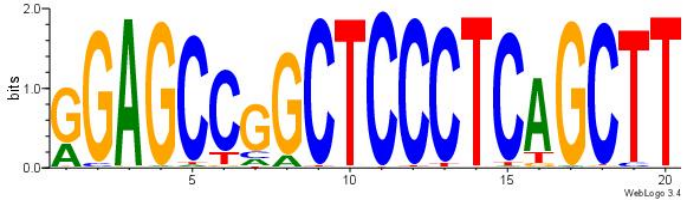

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13601

Alignment:
CGTCGCTCACGCTGGGAGCT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

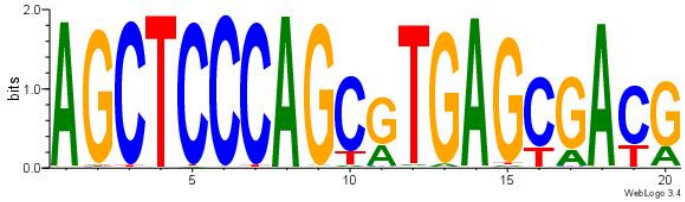

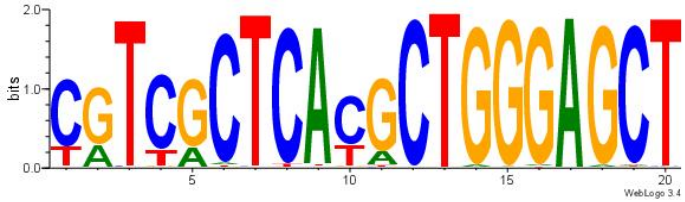

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13743

Alignment:

```
GCTCCACCCAGTTCGAGCTT
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

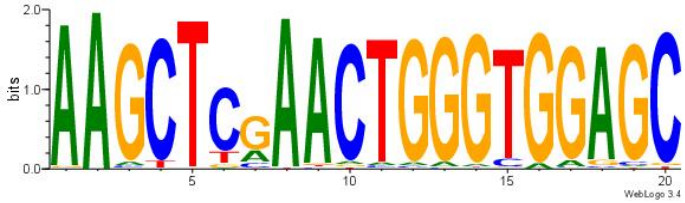

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

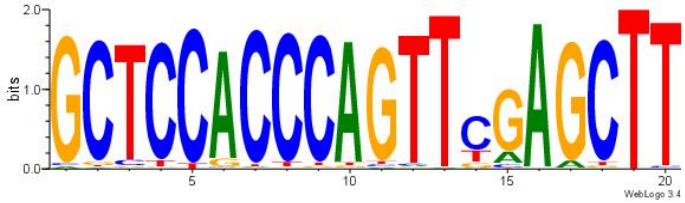

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138688

Alignment:

GAAGGCAGCTAAGGCCCGGY

GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

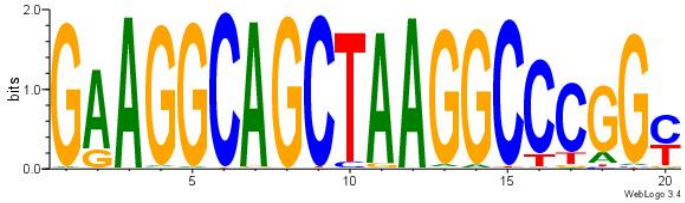

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

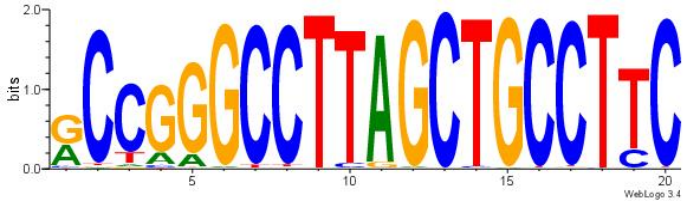

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138844

Alignment:
CCGCTGCACTGTGGGAGCCC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

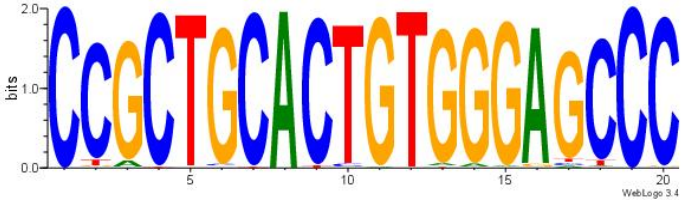

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

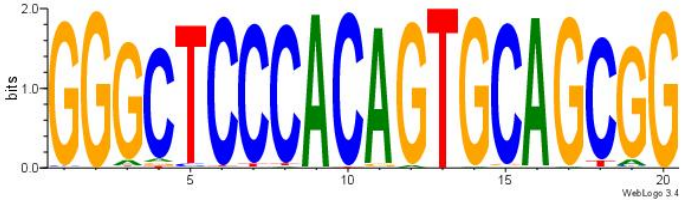

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141774

Alignment:
GGCATCACGGATCCTACCAA
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

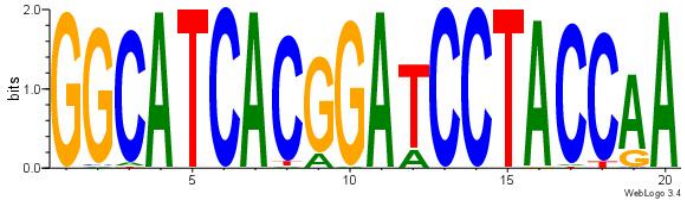

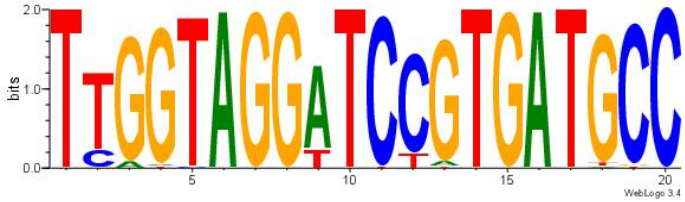

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142004

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
TCCCTCCCGGACGGGGYGGC
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

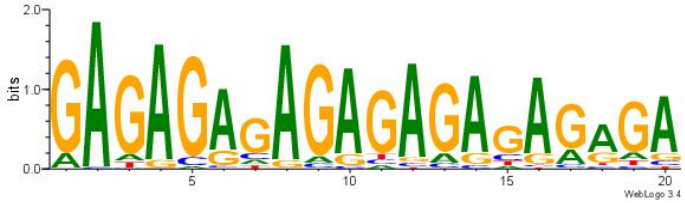

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

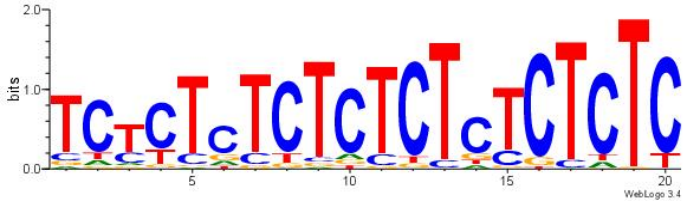

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142235

Alignment:

AACAACASACACTGGGGCCT

TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

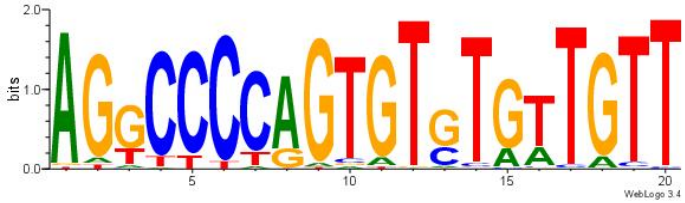

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

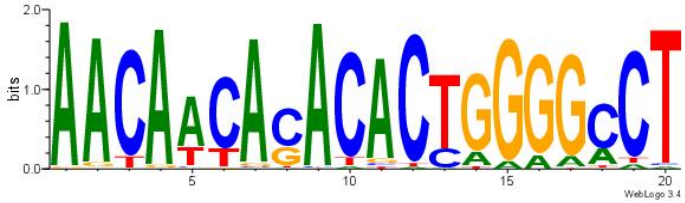

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14286

Alignment:
ACTCCCTAGTGAGATGAACC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

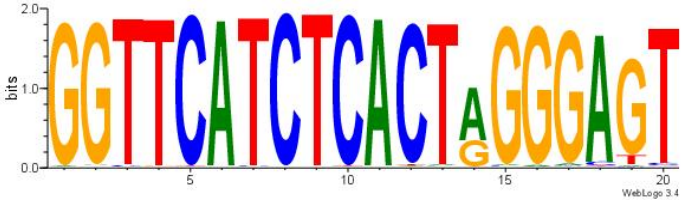

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

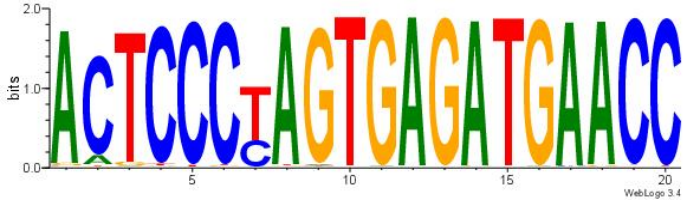

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143695

Alignment:
GTGGCCCTCTTCTCACAGCT
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

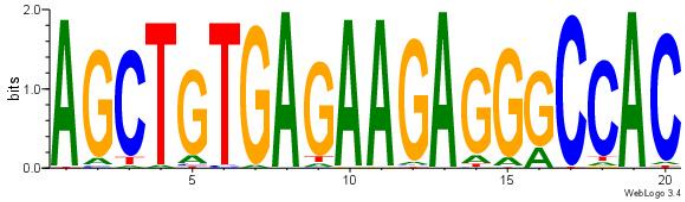

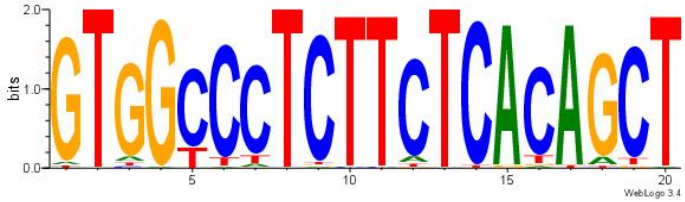

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144955

Alignment:
GAAACTGCTTTGTGATGTGT
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

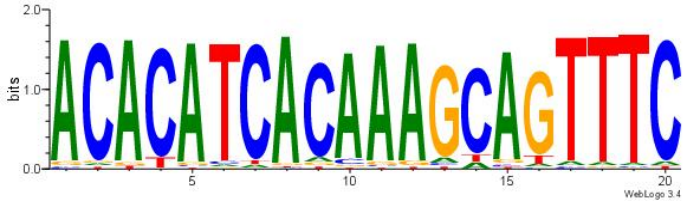

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

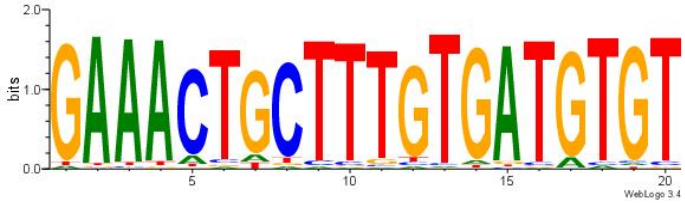

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145214

Alignment:

```
CCTGCCATTGCYSAGGCTTG
TCCCTCCCGGACGGGGYGGC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

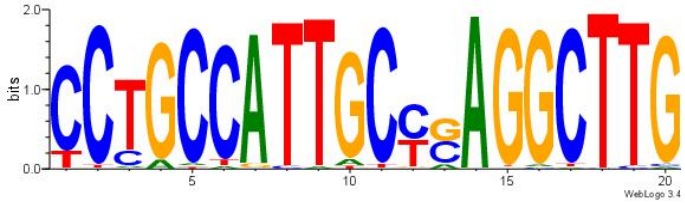

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

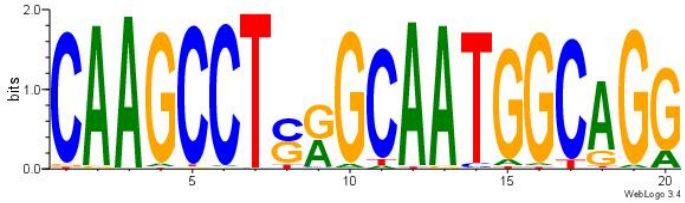

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14598

Alignment:
ACCGAGMKMGCAGCTTCGGG
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

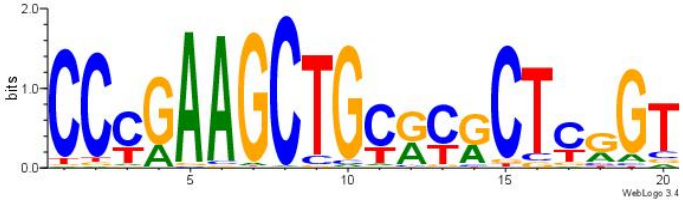

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

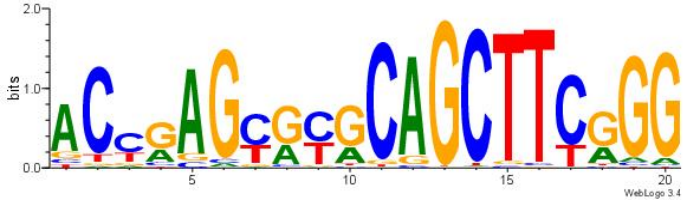

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146983

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

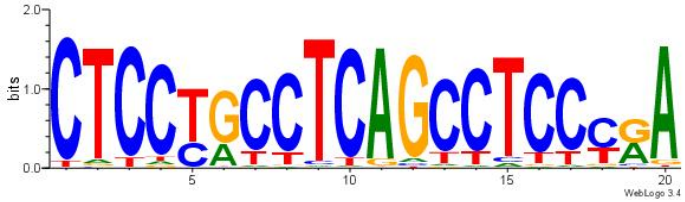

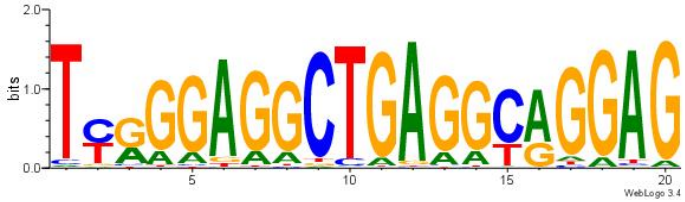

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147976

Alignment:
TGCTGGAGGTCCACTCCAGA
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

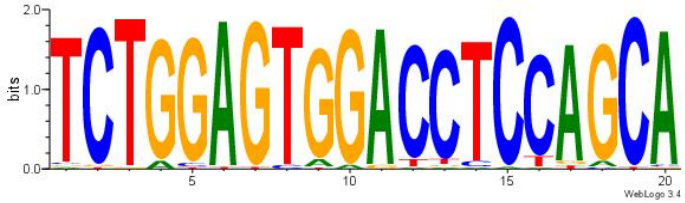

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

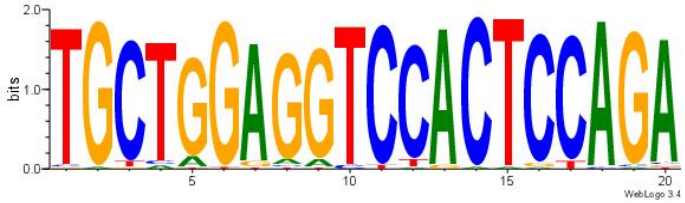

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151534

Alignment:

GGTGGAGCTGCCTGCCAGTC

GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

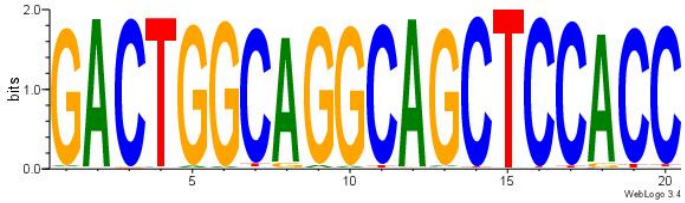

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

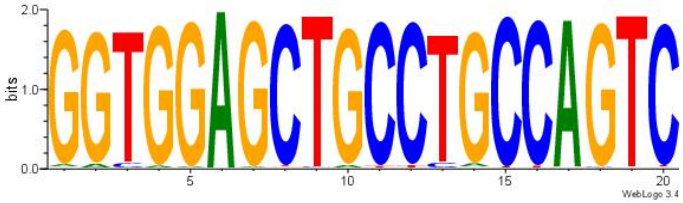

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152378

Alignment:
AAGTCCAAGATCAAGGTGYY
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

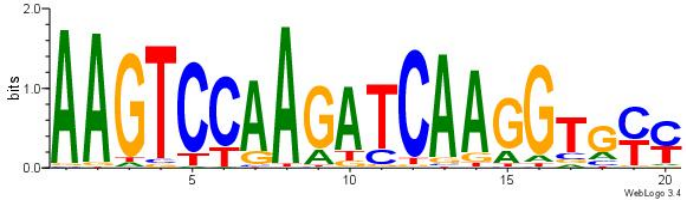

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

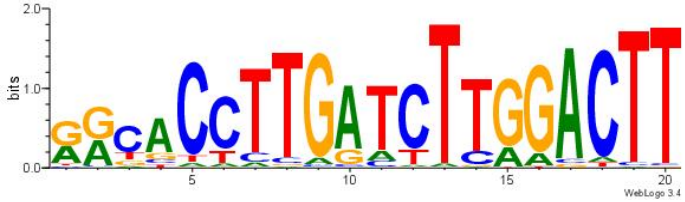

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15352

Alignment:
ATCRCTTGAGSYCAGGAGKT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

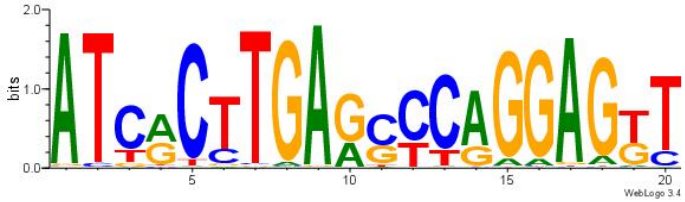

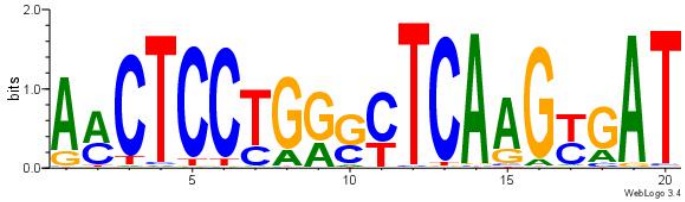

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154143

Alignment:
CTTGCCCAAGGTCACACAGC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

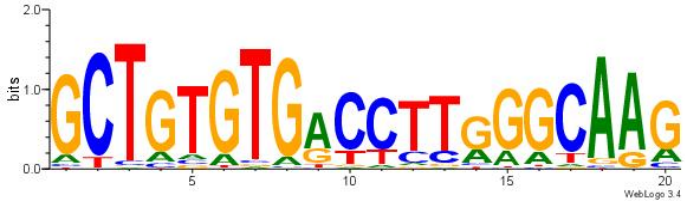

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

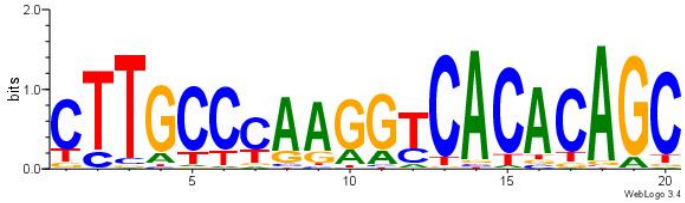

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15424

Alignment:

```
GCACATGTAYCCYAGAACTT
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

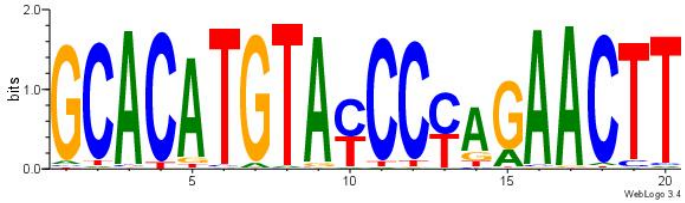

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

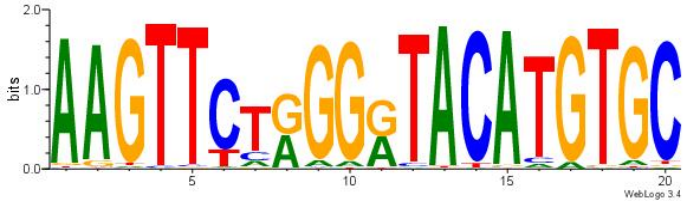

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154831

Alignment:
ACCTGGAAAATCGGGTCACT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

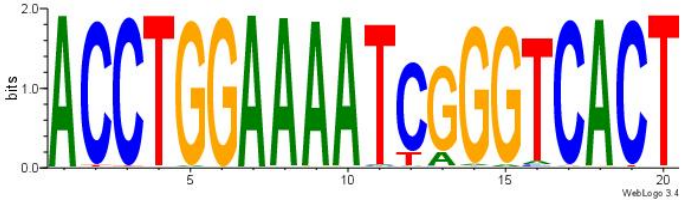

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

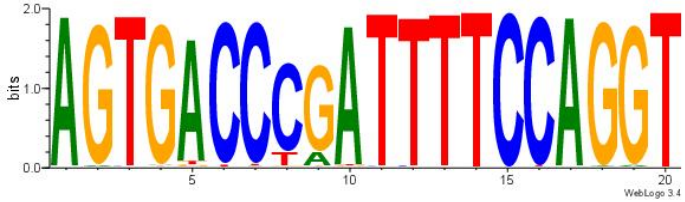

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155598

Alignment:
AGCCYCTGGYAACCAYYAWT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

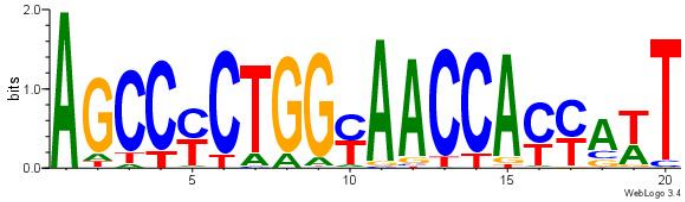

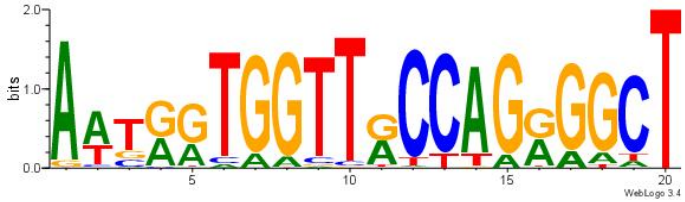

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155689

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

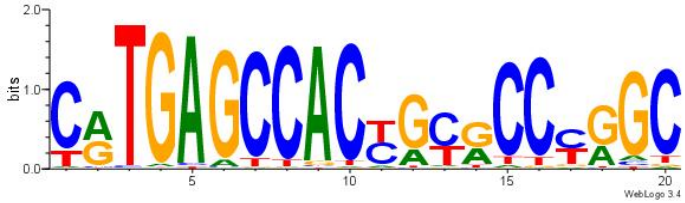

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

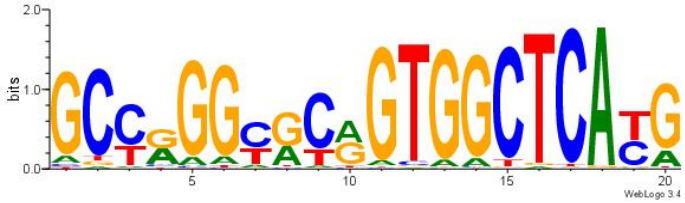

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157687

Alignment:

GAAHCAACCKAAKTGTCCAT

GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

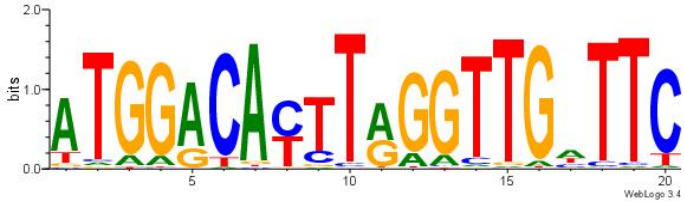

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

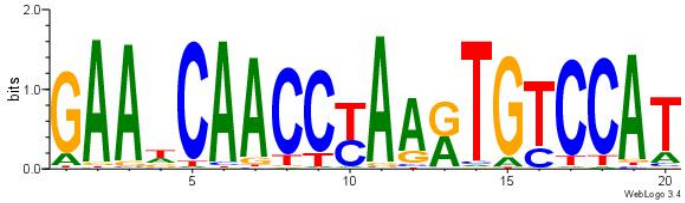

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.15911

Alignment:
AAATTACCCAGTCTCAGGTA
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

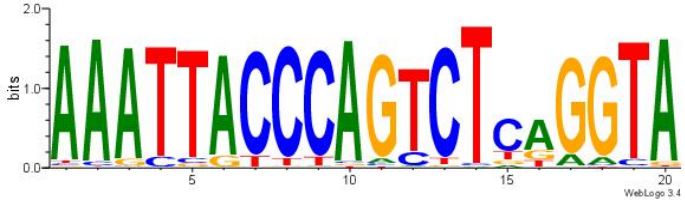

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

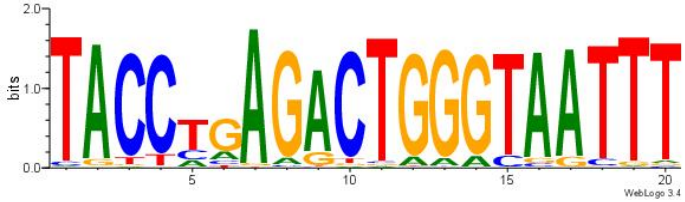

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159203

Alignment:
CACCAGACTCAGGAGCCCAG
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

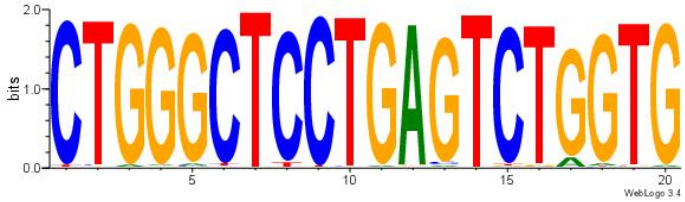

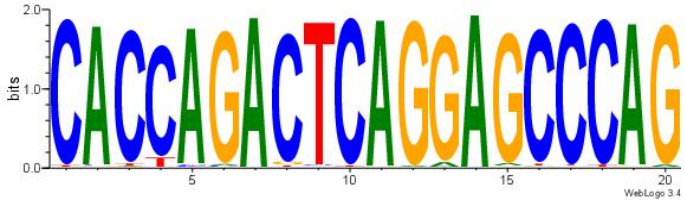

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160109

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
TCCCTCCCGGACGGGGYGGC
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

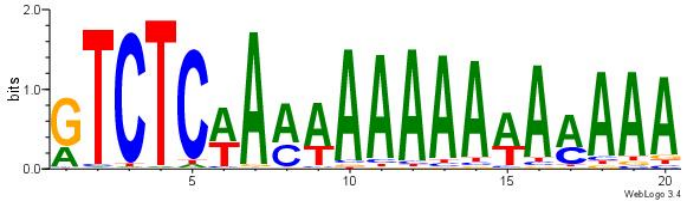

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

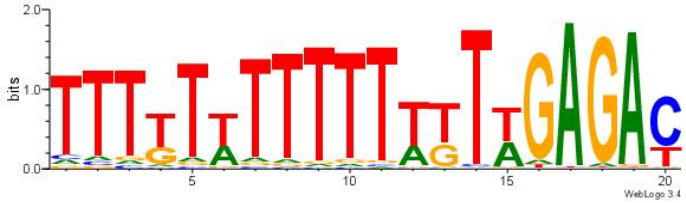

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160359

Alignment:

```
ACCCAATWTGTAGTCTTTTA
TCCCTCCCGGACGGGGYGGC
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

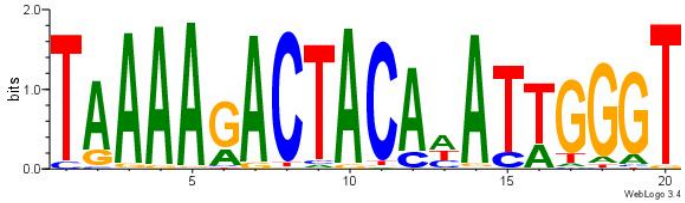

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

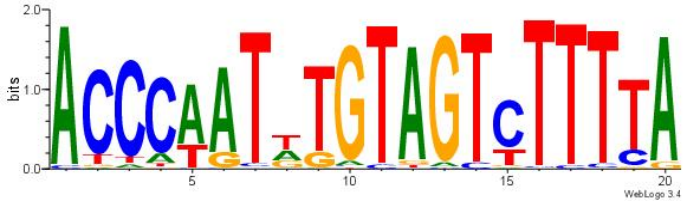

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160956

Alignment:
AAGCAGGGCGAGGCATTGCC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

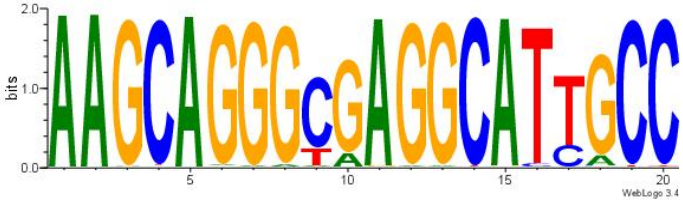

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

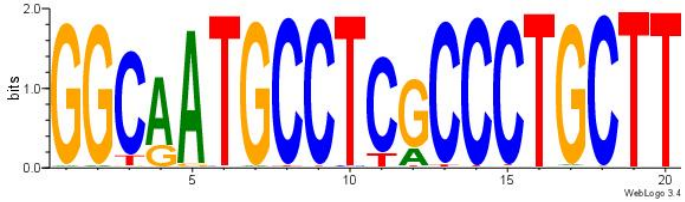

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.161769

Alignment:
CCCMKGGCACCCTCAGTCCT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

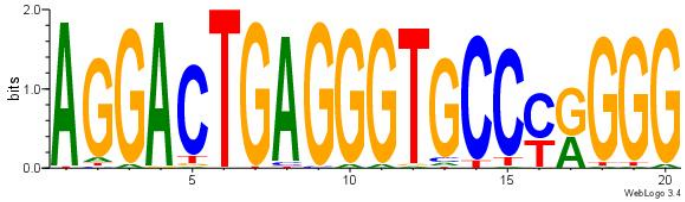

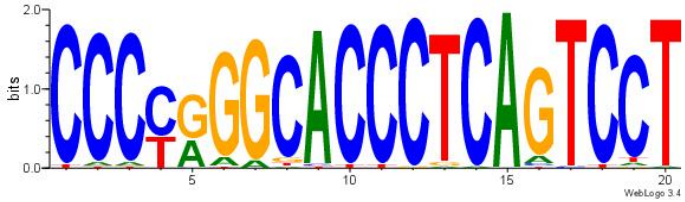

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162063

Alignment:

```
CTGGCCCTCAATGGTTAAAC
TCCCTCCCGGACGGGGYGGC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

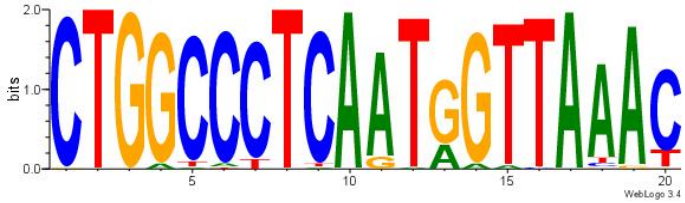

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

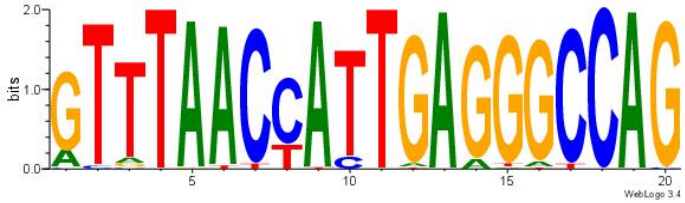

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16225

Alignment:

```
CMTAGYACAGTGCCTGGCAC
TCCCTCCCGGACGGGGYGGC
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

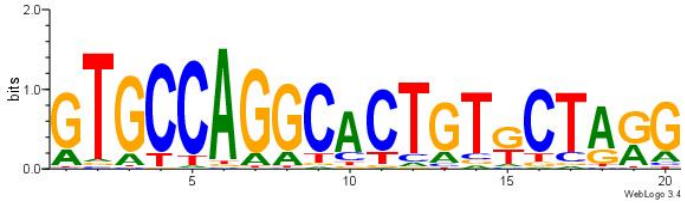

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

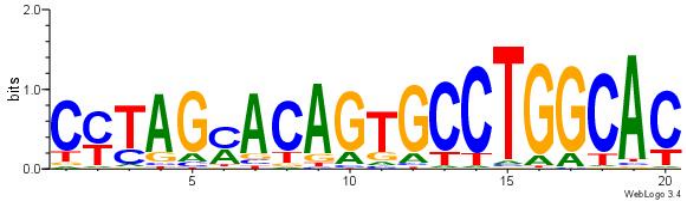

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162458

Alignment:
HAGTGGKATTGCTGGATCAT
GCCKCCCCGTCCGGGAGGGA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

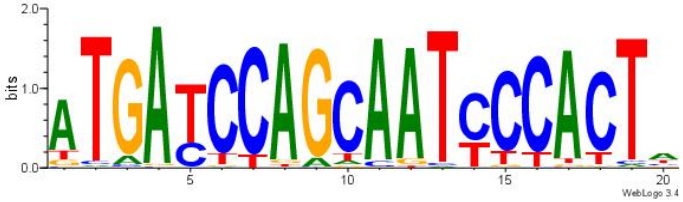

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

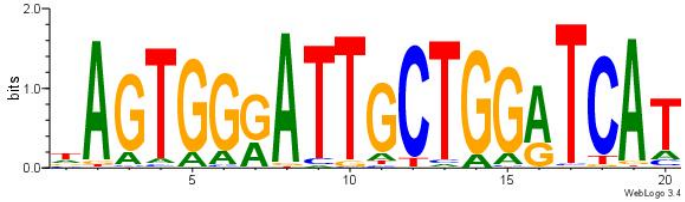

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164842

Alignment:
CTGGGTCCCCCAGCAGTGCC
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

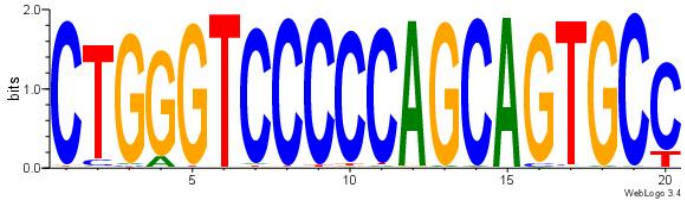

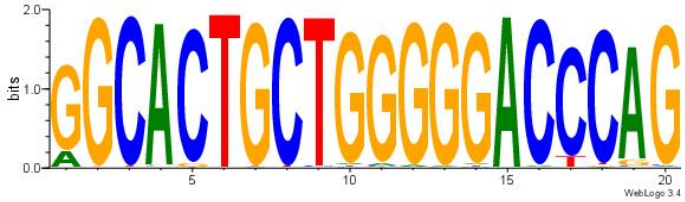

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165328

Alignment:

```
CTGGGCRACAGAGYRAGACY
GCCKCCCCGTCCGGGAGGGA
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

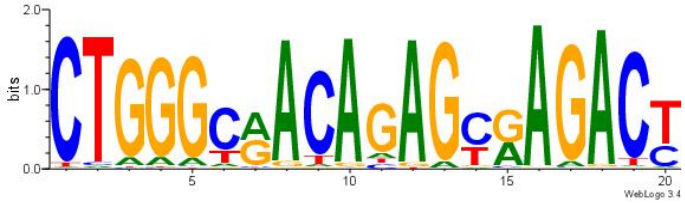

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

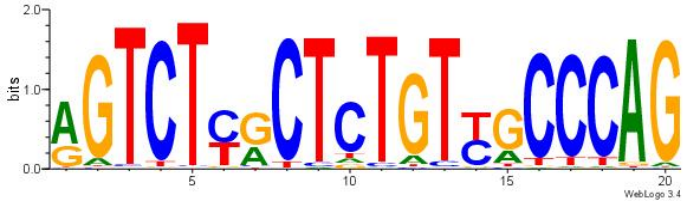

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16572

Alignment:
TTGTCCCACTGGAAGGTCTT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

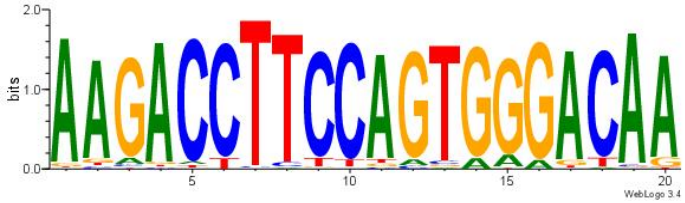

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

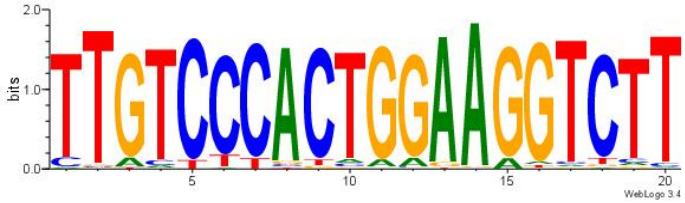

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.168992

Alignment:
ACTGTCTTCCACCTCCACAT
TCCCTCCCGGACGGGGYGGC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

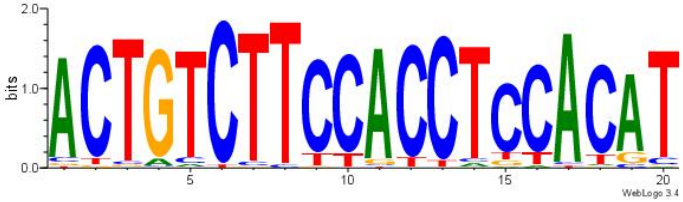

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

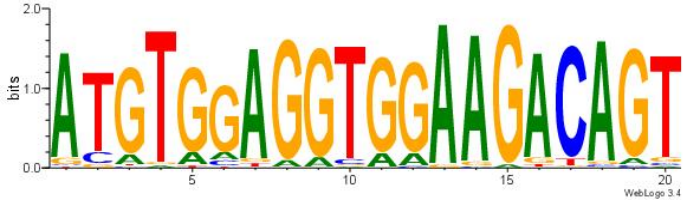

Dataset #: 1 Motif ID: 156 Motif name: Motif 156

Original motif Consensus sequence: CACTTCCCAGAC

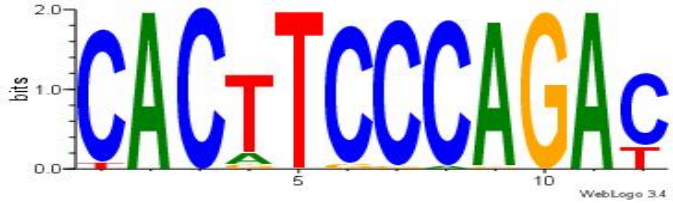

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

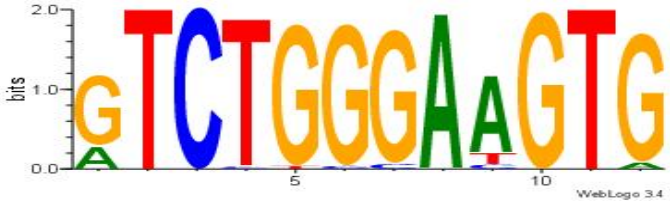

Best Matches for Motif ID 156 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.00564821

Alignment:

```
CACTTCCCAGACGGGGCG
CACTTCCCAGAC------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

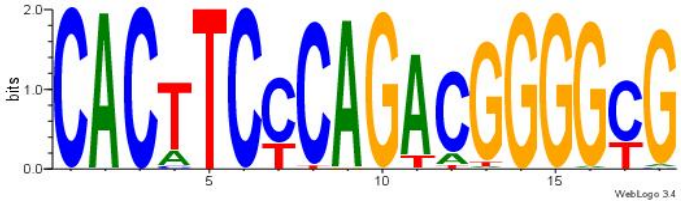

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

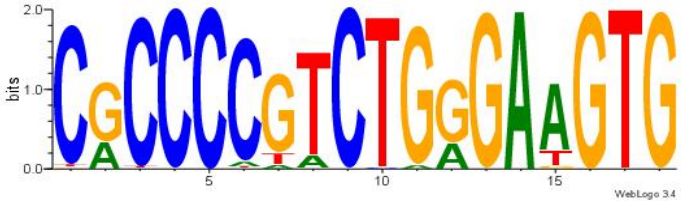

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0183065

Alignment:

```
CACCTCCCAGACMGGGT
-----CACTTCCCAGAC
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

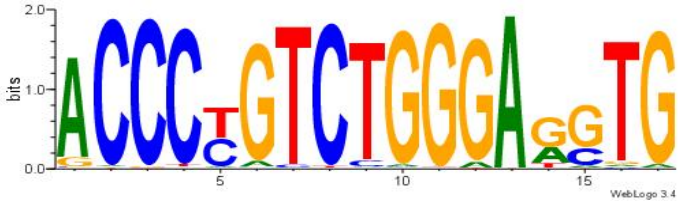

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

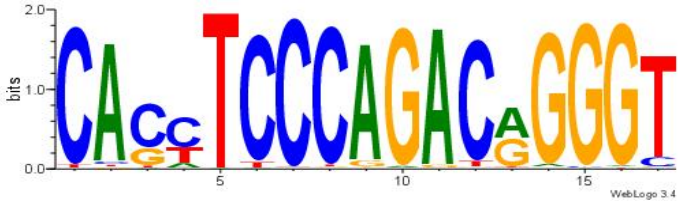

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0205412

Alignment:

```
TGCCCAGTCTGGAAAGTG
GTCTGGGAAGTG------
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

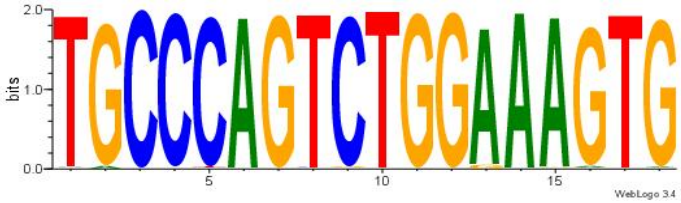

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

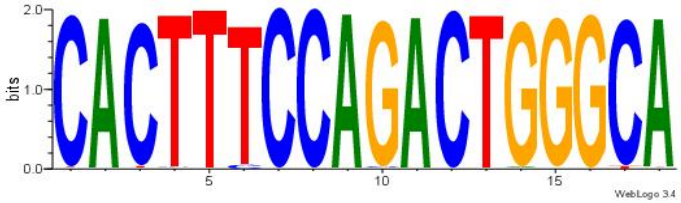

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0315299

Alignment:

```
CACTTCCTAGATGG
CACTTCCCAGAC--
```

Original motif Consensus sequence: CACTTCCTAGATGG

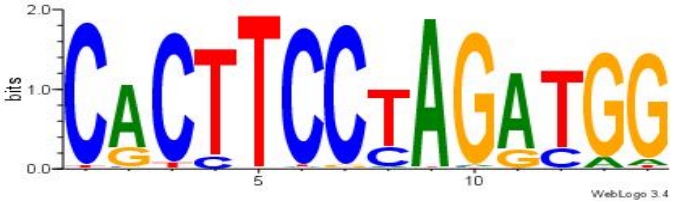

Reverse complement motif Consensus sequence: CCATCTAGGAAGTG

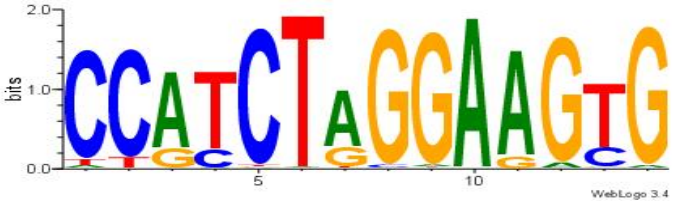

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0670258

Alignment:
CGCACTCCTCAGCC
--CACTTCCCAGAC

Original motif Consensus sequence: CGCACTCCTCAGCC

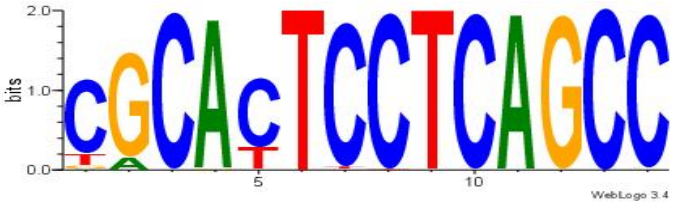

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

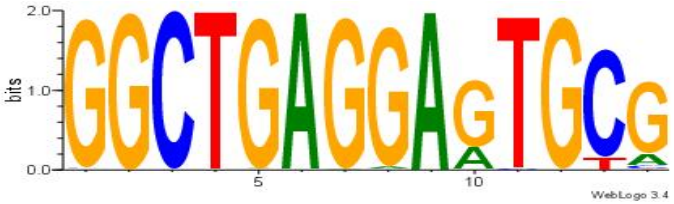

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0699718

Alignment:
CATTCTGGGGTCTGGAGGAY
--GTCTGGGAAGTG------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

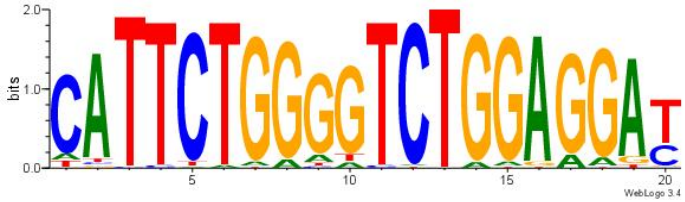

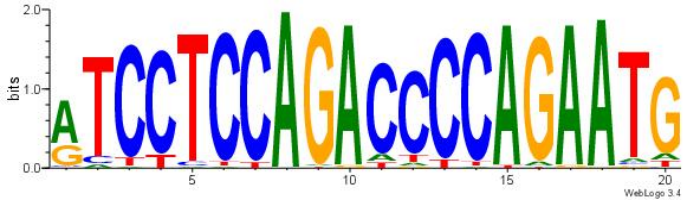

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0712206

Alignment:

```
GAAAGGGAACTCCCTGACCC
------CACTTCCCAGAC--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

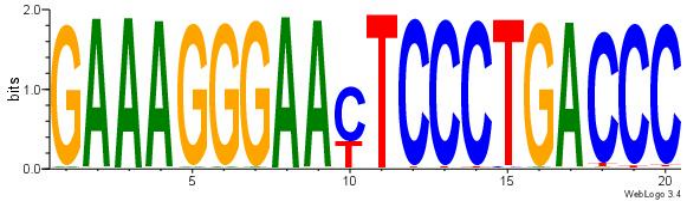

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

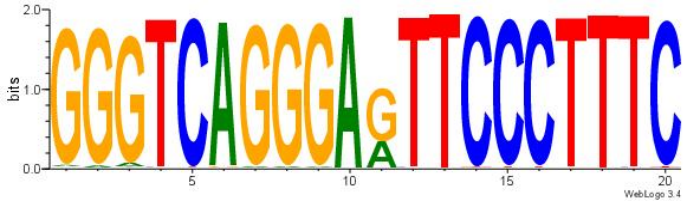

Dataset #: 1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0740539

Alignment:

```
CTTGCGCTTCCCRRGTGA
----CACTTCCCAGAC--
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

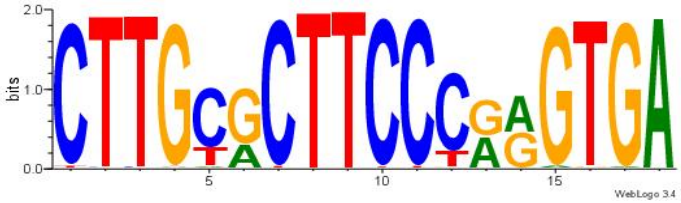

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

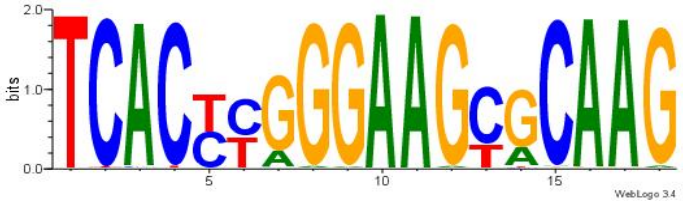

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0746148

Alignment:
GCTTCTGGTGAGGGC
--GTCTGGGAAGTG-

Original motif Consensus sequence: GCCCTCACCAGAAGC

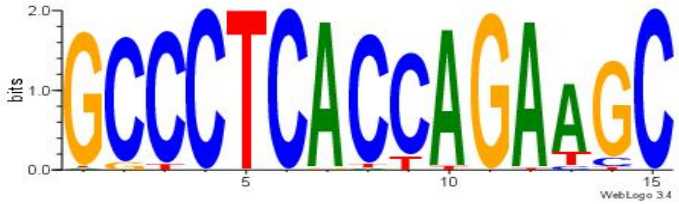

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

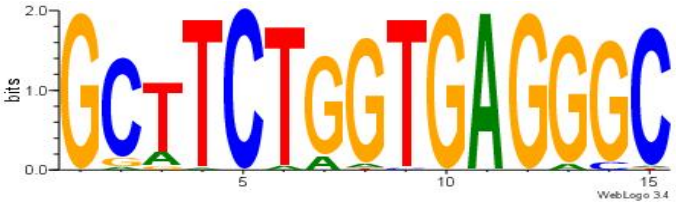

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0751897

Alignment:
TCCCTCCCGGACGGGGYGGC
CACTTCCCAGAC--------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

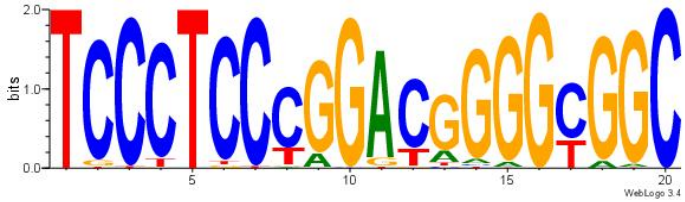

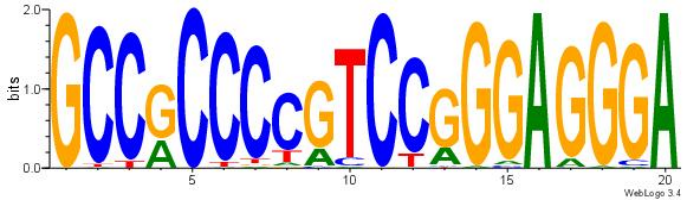

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0761795

Alignment:

```
CCCTCACTGCCCGGGG
----CACTTCCCAGAC
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

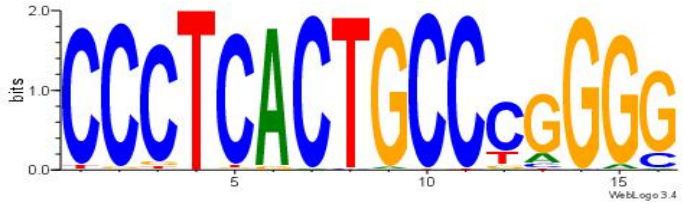

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

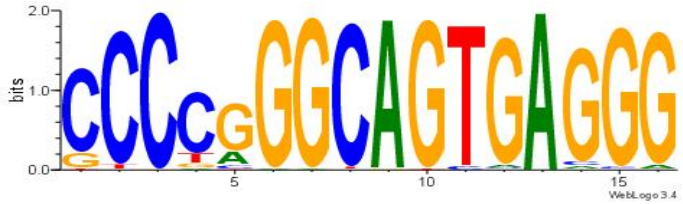

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.076813

Alignment:

```
ACACATCACAAAGCAGTTTC
-CACTTCCCAGAC-------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

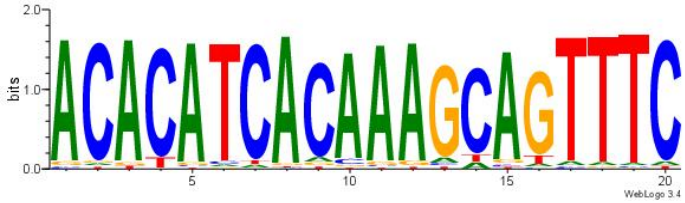

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

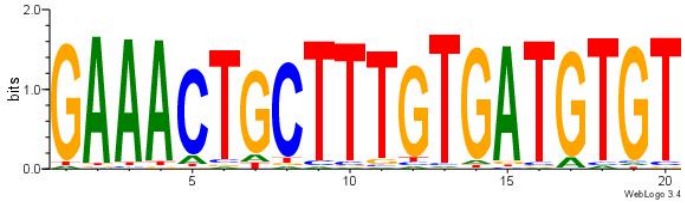

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0777048

Alignment:
GGCACTCCCTAGTG
CACTTCCCAGAC--

Original motif Consensus sequence: CACTAGGGAGTGCC

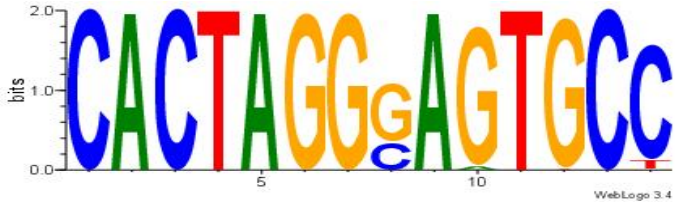

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

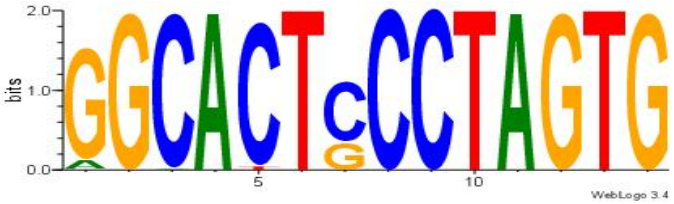

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0782419

Alignment:
TTMGTCCCAGAGGGGCACC
CACTTCCCAGAC-------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

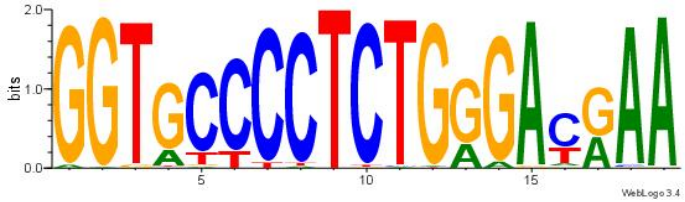

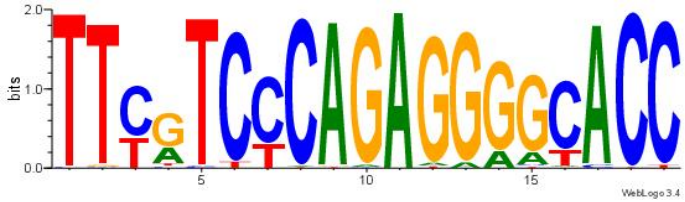

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0791381

Alignment:

```
GTGGCCCTCTTCTCACAGCT
------CACTTCCCAGAC--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

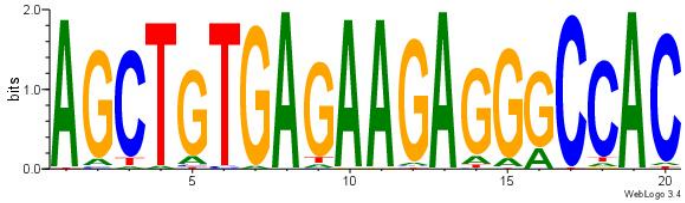

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

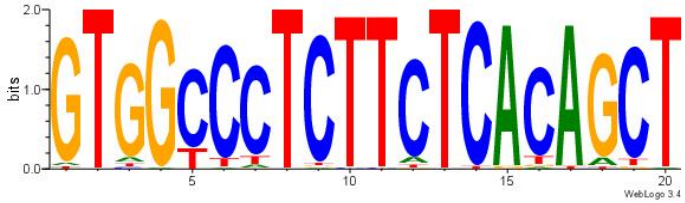

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0801718

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-----CACTTCCCAGAC---
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

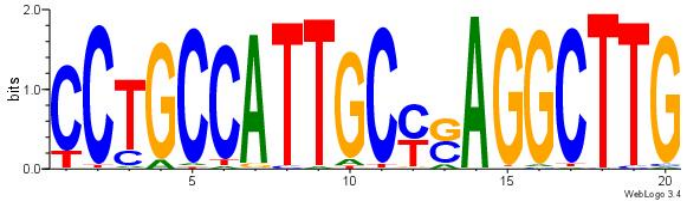

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

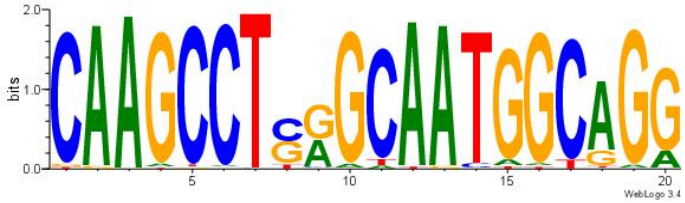

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0817521

Alignment:
CTCTGCCCGGCCGC
CACTTCCCAGAC--

Original motif Consensus sequence: CTCTGCCCGGCCGC

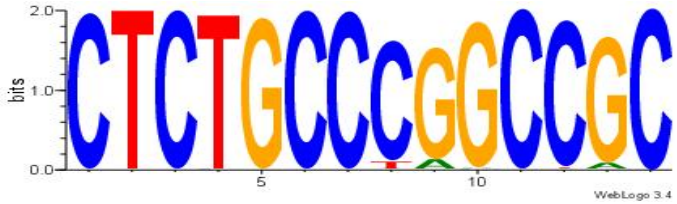

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

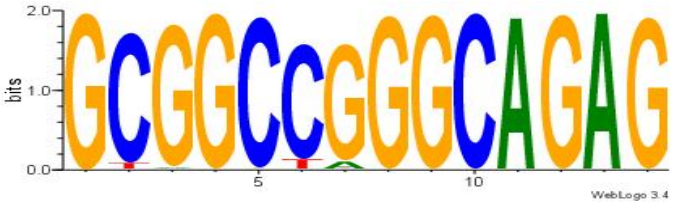

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0831072

Alignment:
GCTGCARTCTCGGCACTTT
------GTCTGGGAAGTG-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

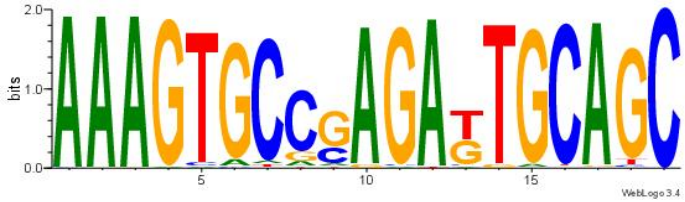

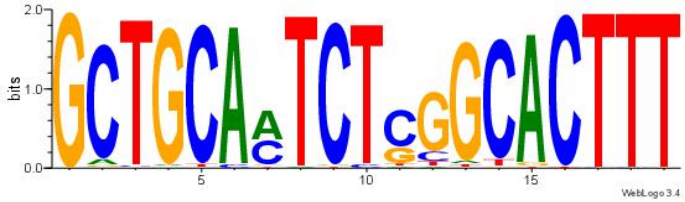

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0840136

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
------GTCTGGGAAGTG--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

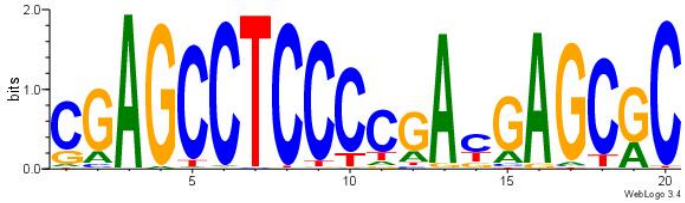

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

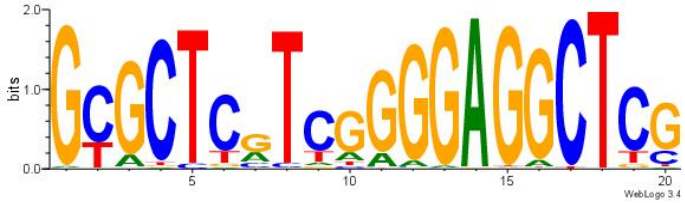

Dataset #:	1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0847192

Alignment:

```
GGCTGCGGAGGGTGTA
----GTCTGGGAAGTG
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

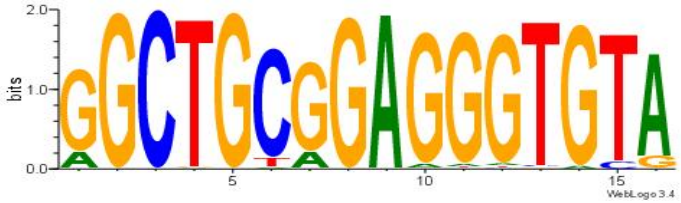

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

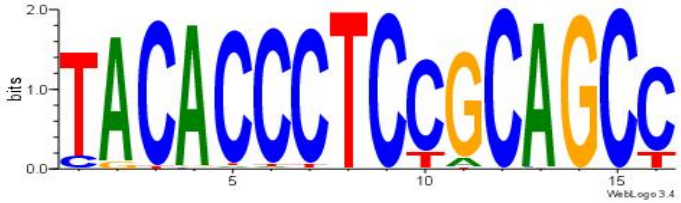

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0847387

Alignment:
AAATTACCCAGTCTCAGGTA
-CACTTCCCAGAC-------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

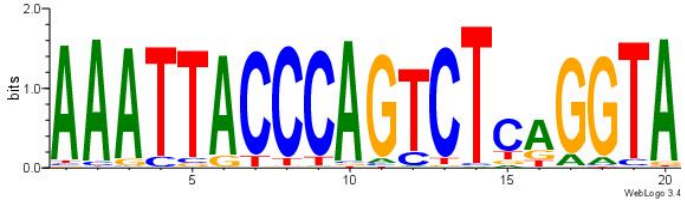

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

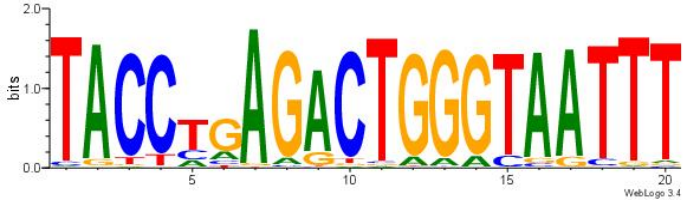

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0863611

Alignment:
CTTTCTGGGCTGGCCAAGG
--GTCTGGGAAGTG-----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

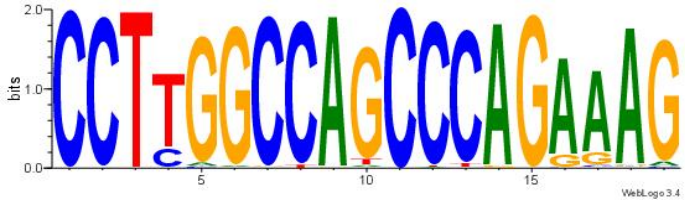

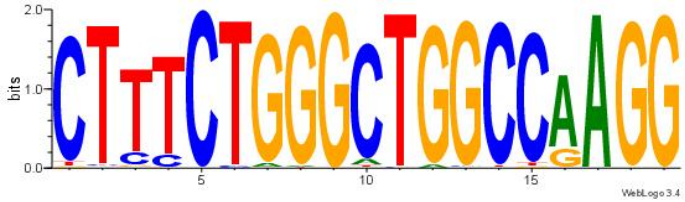

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.086663

Alignment:

```
ACACCTATTCGCACAC
----CACTTCCCAGAC
```

Original motif Consensus sequence: ACACCTATTCGCACAC

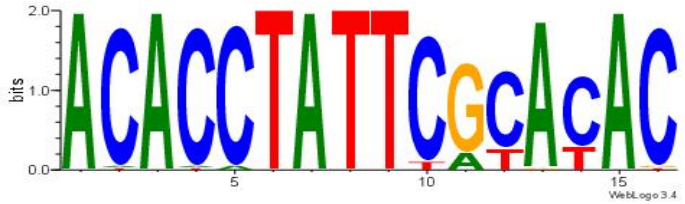

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

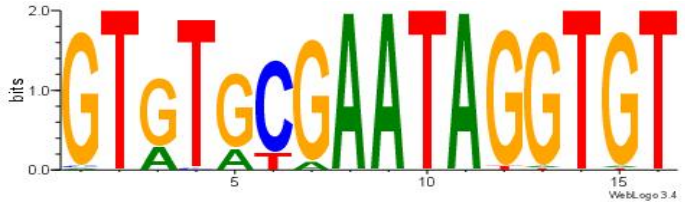

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0879861

Alignment:

```
CCAAGACYCCAGAC
--CACTTCCCAGAC
```

Original motif Consensus sequence: CCAAGACYCCAGAC

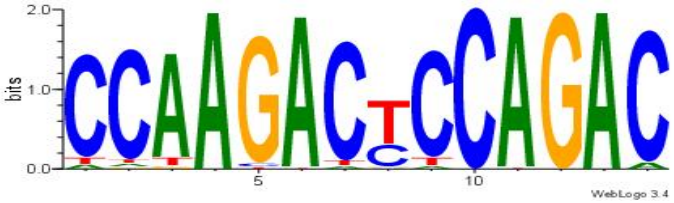

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

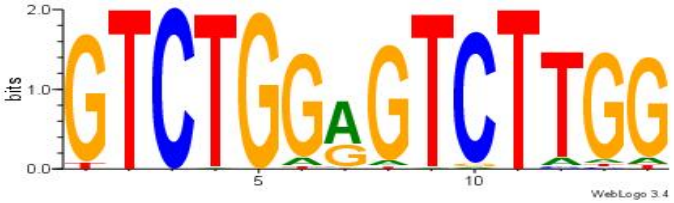

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0893451

Alignment:
GTGTCKGGAGTTTGTTCCTT
--GTCTGGGAAGTG------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

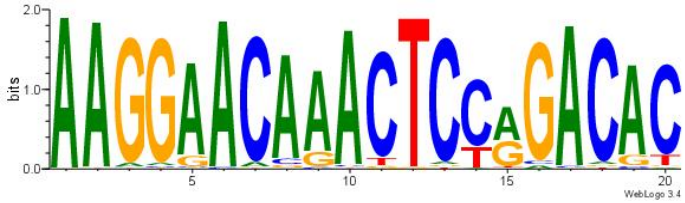

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

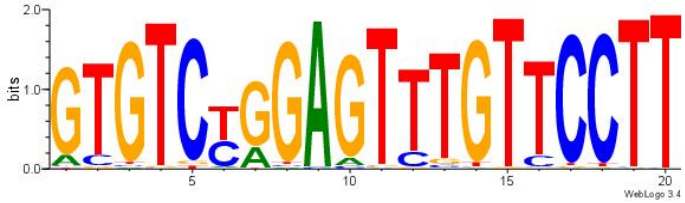

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0899651

Alignment:
GTGGGTGCAGTGCA
GTCTGGGAAGTG--

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

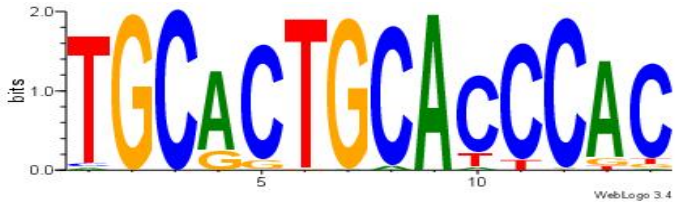

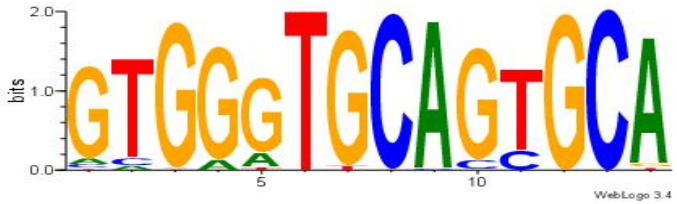

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0900729

Alignment:

```
TTTTATAGGATTTGGG
--GTCTGGGAAGTG--
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

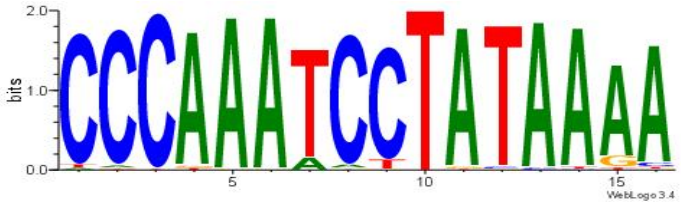

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

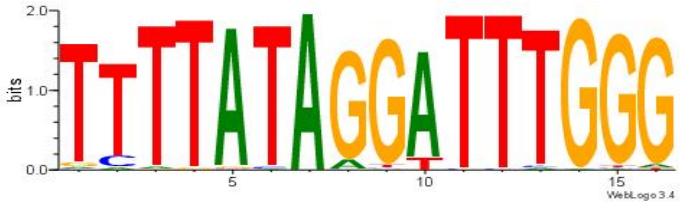

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0911468

Alignment:

```
ACCTGGAAAATCGGGTCACT
--------GTCTGGGAAGTG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

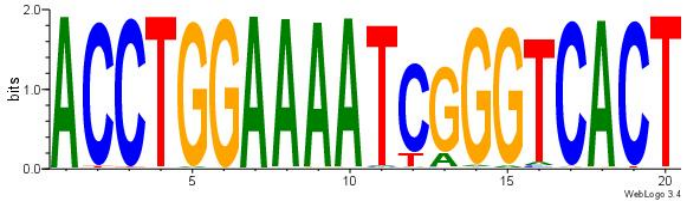

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

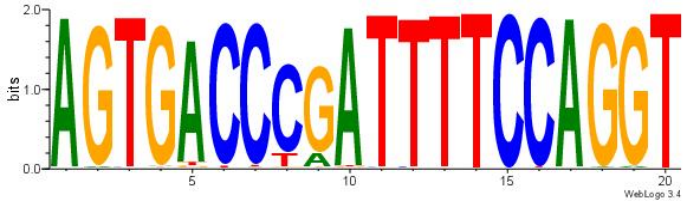

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0921138

Alignment:
ACTTTGGACTGTGGACTTTT
-GTCTGGGAAGTG-------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

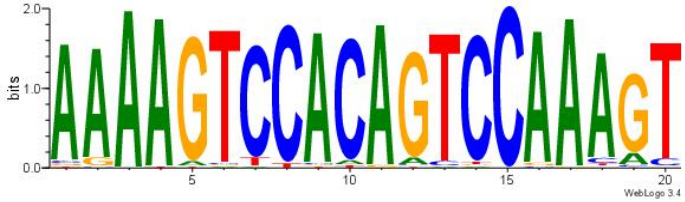

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

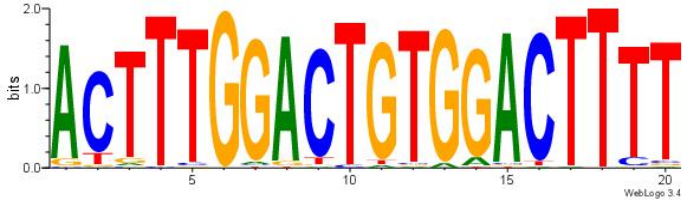

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0925188

Alignment:
GCTCCACCCAGTTCGAGCTT
-CACTTCCCAGAC-------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

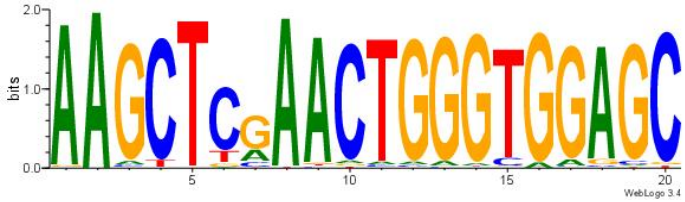

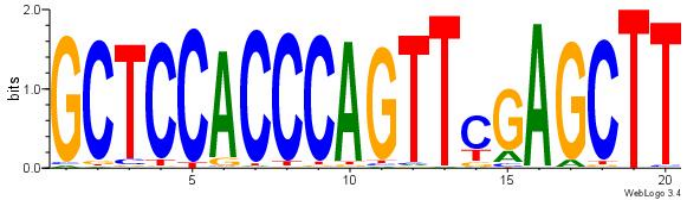

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0925584

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--------CACTTCCCAGAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

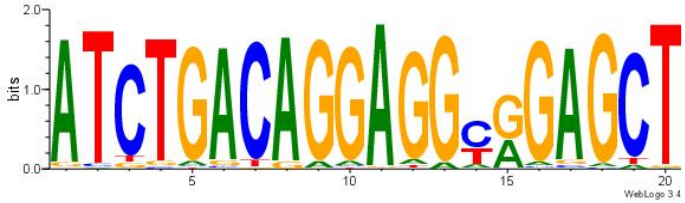

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

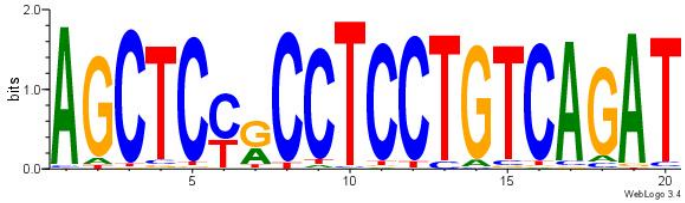

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.093686

Alignment:

```
GGATTTMKGACTTGCATGGG
--------GTCTGGGAAGTG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

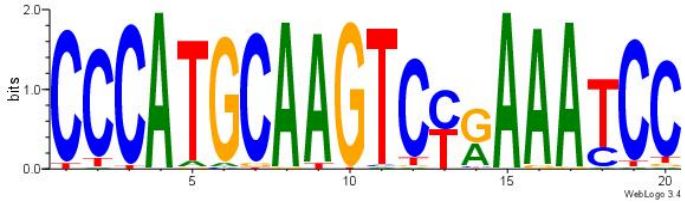

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

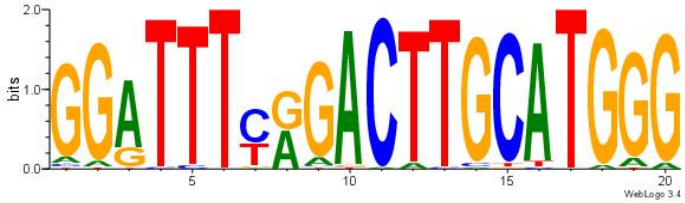

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0940511

Alignment:
CATTATGCTAARTG
--GTCTGGGAAGTG

Original motif Consensus sequence: CATTATGCTAARTG

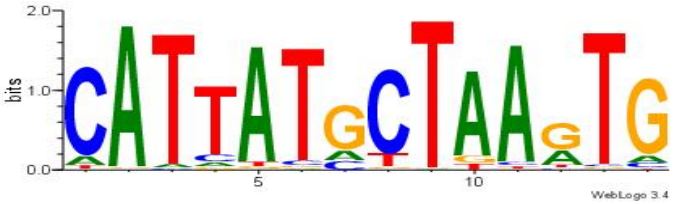

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

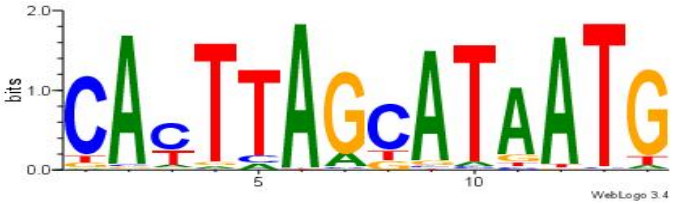

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.094096

Alignment:
CTGACTGGGAGACACCTCCC
--GTCTGGGAAGTG------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

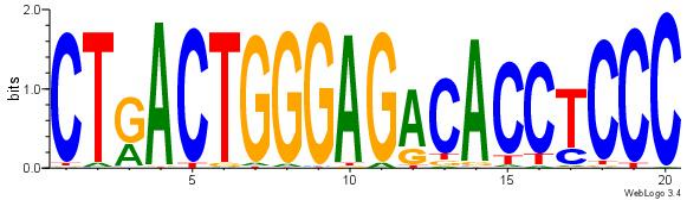

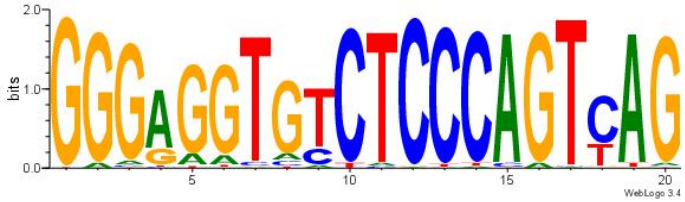

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0943915

Alignment:
AACCCTATTGTGAACTGYG
-----GTCTGGGAAGTG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

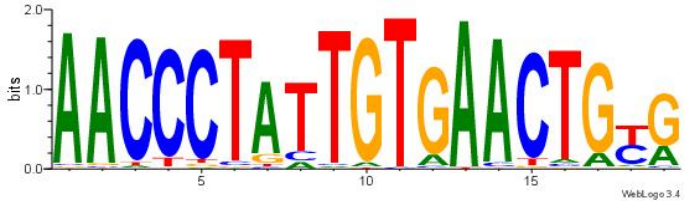

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

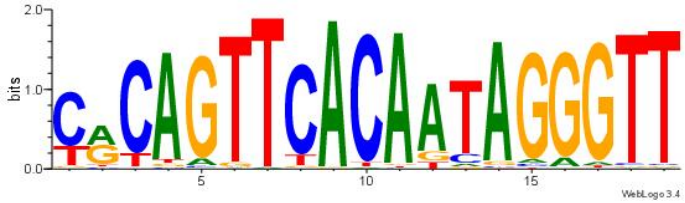

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0950655

Alignment:

```
CATTTGGGAGCCCATTGA
CACTTCCCAGAC------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

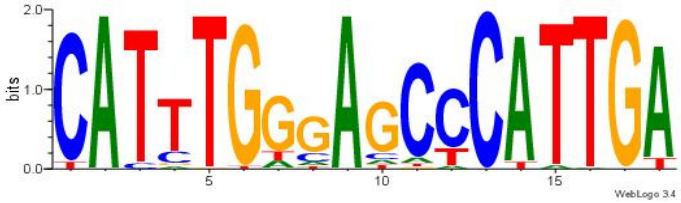

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

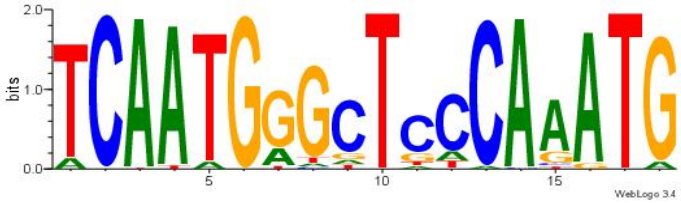

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0955666

Alignment:
CCGCGGGGCAGGGCTCG
-GTCTGGGAAGTG----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

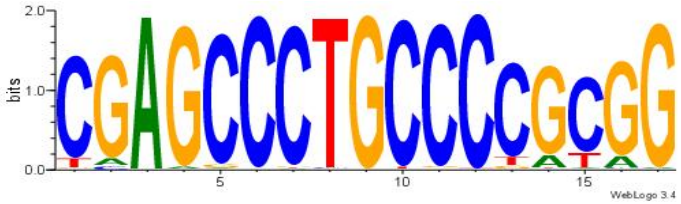

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

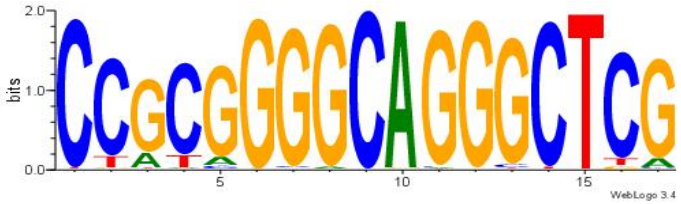

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.095658

Alignment:
CAGTCTGTGTCTTTTAATT
--GTCTGGGAAGTG-----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

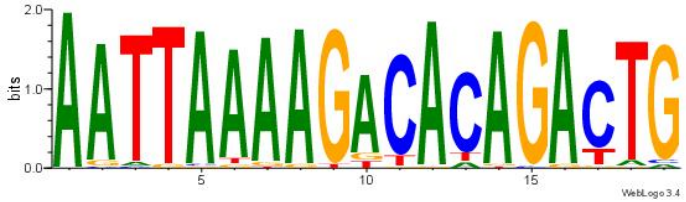

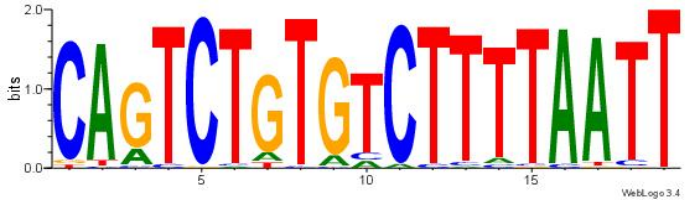

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0965206

Alignment:

```
TTGTCCCACTGGAAGGTCTT
------GTCTGGGAAGTG--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

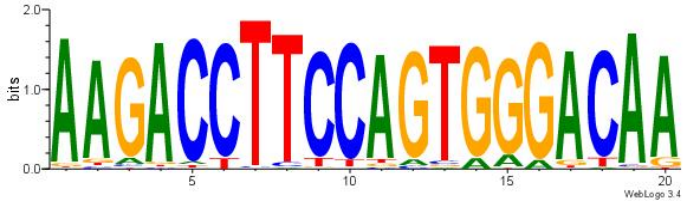

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

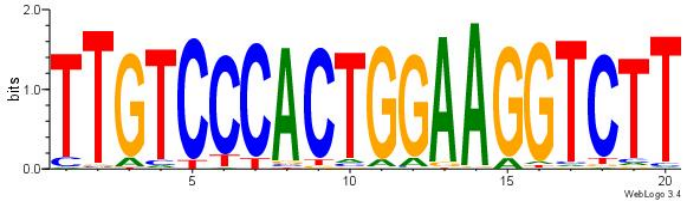

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0969638

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
CACTTCCCAGAC--------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

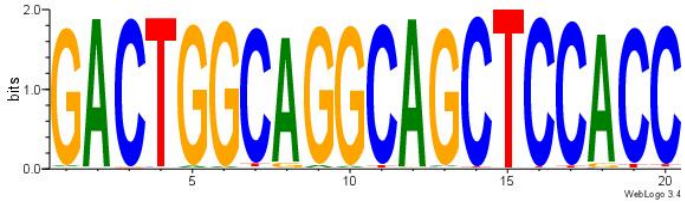

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

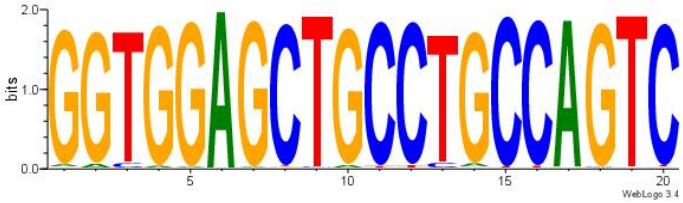

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0974871

Alignment:
GACTTCATGGAG
CACTTCCCAGAC

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

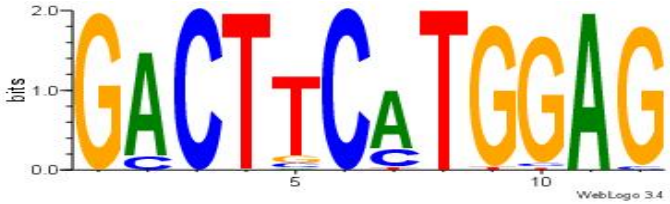

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0977163

Alignment:
TGGGCTGCCAGATG
--GTCTGGGAAGTG

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

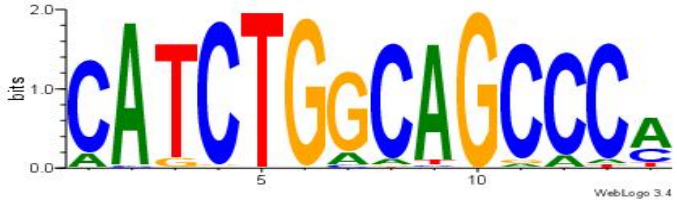

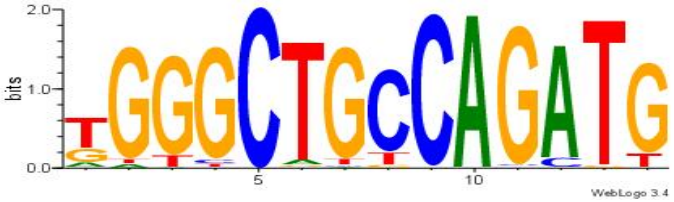

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.097912

Alignment:

```
TTTTCACATGCCTTTCT
----CACTTCCCAGAC-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

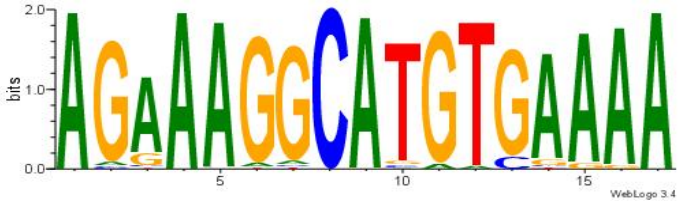

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

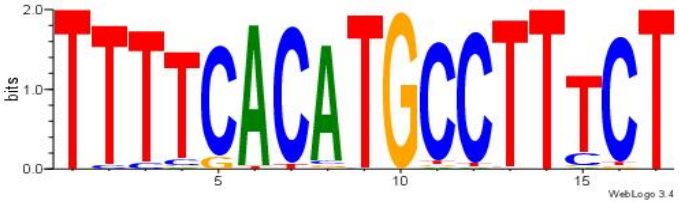

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0979172

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
----GTCTGGGAAGTG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

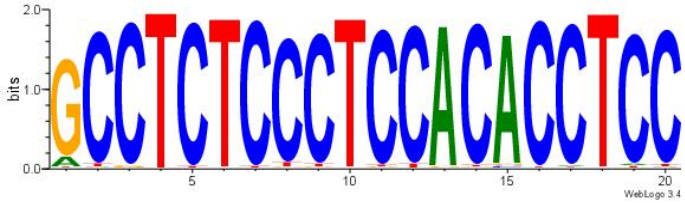

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

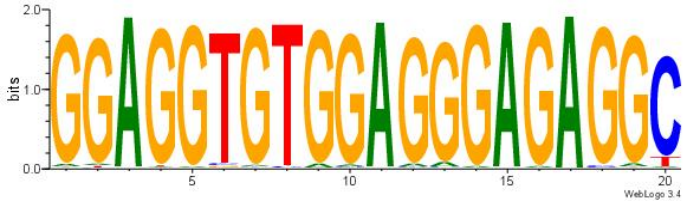

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0993508

Alignment:
AGTTGTAATTGGGAGACTT
-----CACTTCCCAGAC--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

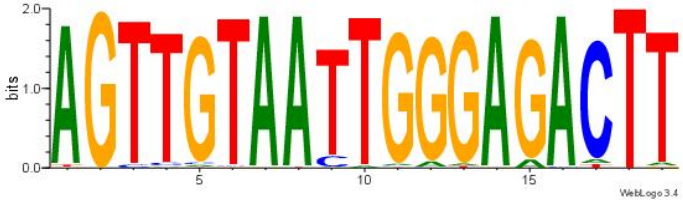

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

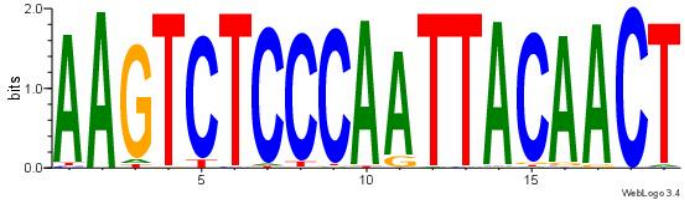

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0999072

Alignment:
AGGGATCTAGGTTGCR
----GTCTGGGAAGTG

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

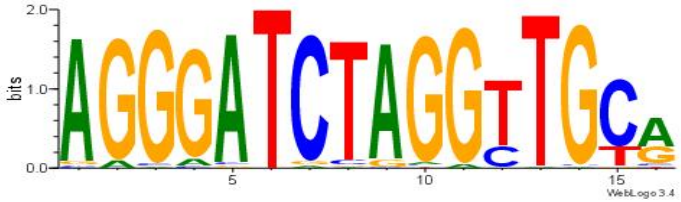

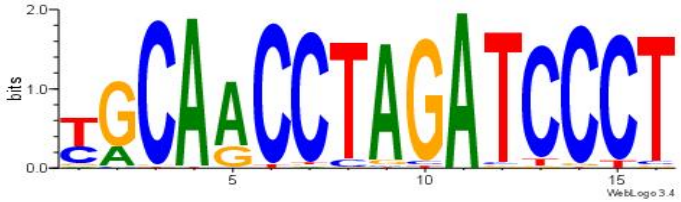

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.100016

Alignment:

```
AGGTATTTCTCCCACC
---CACTTCCCAGAC-
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

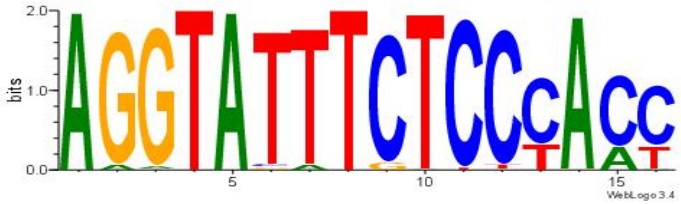

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

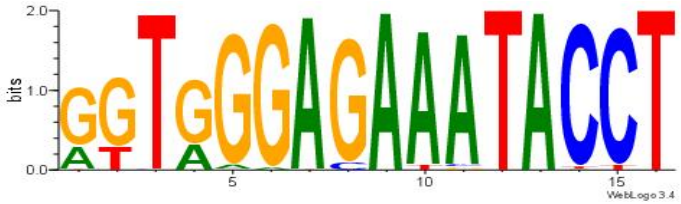

Dataset #:	1

Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.101754

Alignment:

```
CCTCCCSGACGRG
GTCTGGGAAGTG-
```

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

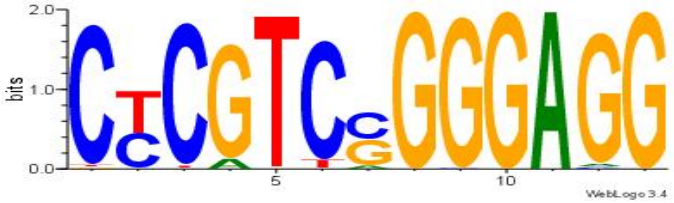

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102683

Alignment:
TAGTGGTGATTTSTGAGAT
-------CACTTCCCAGAC

Original motif Consensus sequence: ATCTCASAAATCACCACTA

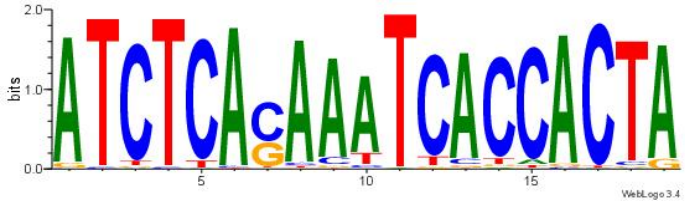

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

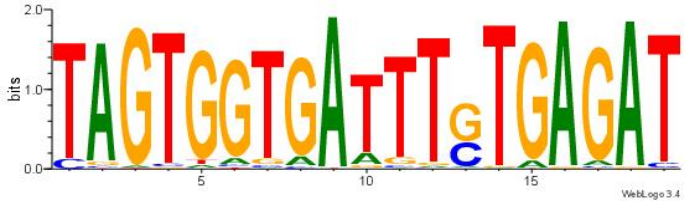

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.102716

Alignment:
GTAGCTGGGAYTACA
-GTCTGGGAAGTG--

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

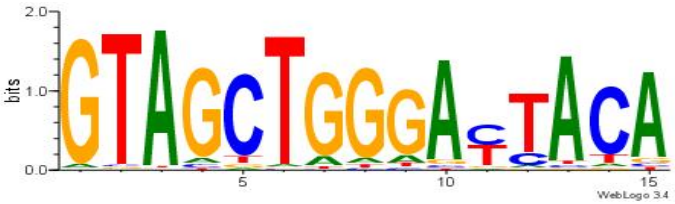

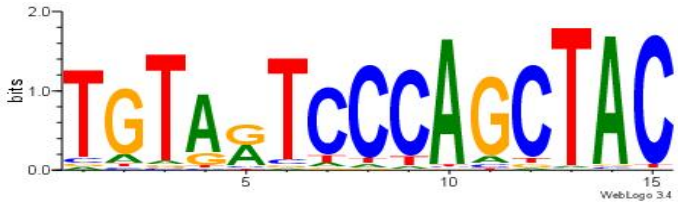

Dataset #: 1 Motif ID: 157 Motif name: Motif 157

Original motif Consensus sequence: GCGCACGGCGCGG

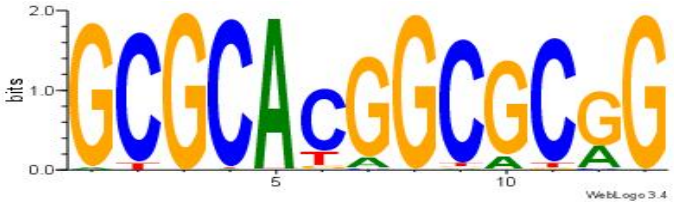

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

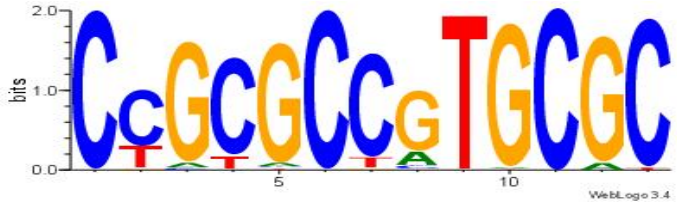

Best Matches for Motif ID 157 (Highest to Lowest)

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.056845

Alignment:

```
CMGCTCCGAGTGCGG
CCGCGCCGTGCGC--
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

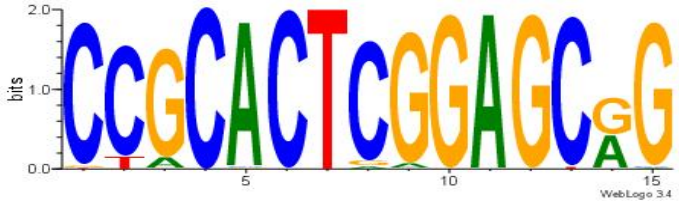

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

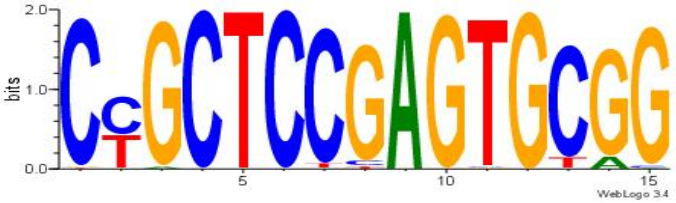

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0678809

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CCGCGCCGTGCGC------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

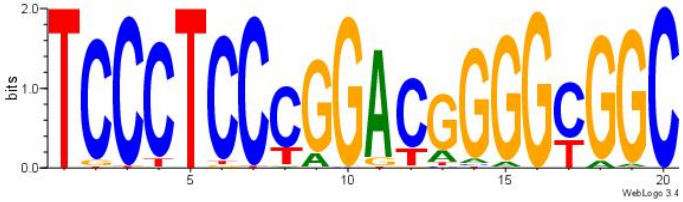

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

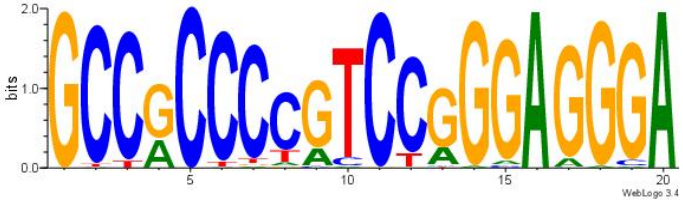

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0702925

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-------CCGCGCCGTGCGC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

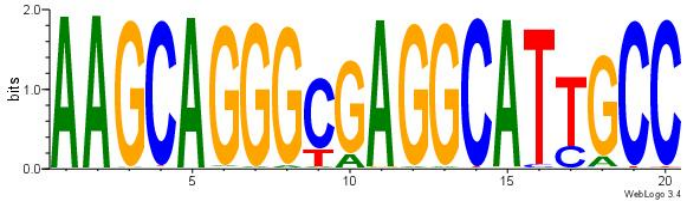

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

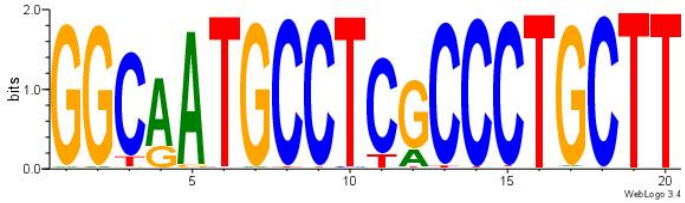

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0726491

Alignment:
AGAAATCGAGCRCAGCGCCG
-------GCGCACGGCGCGG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

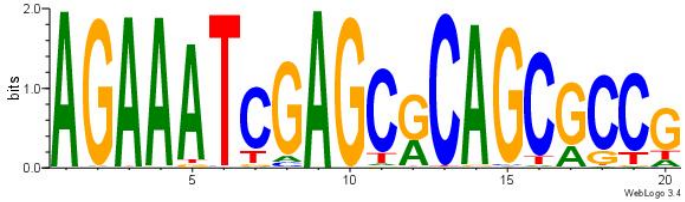

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

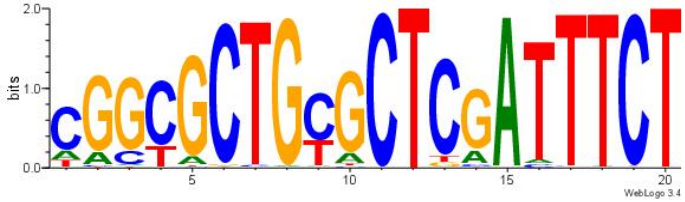

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0740305

Alignment:
CCCCGGGCAGTGAGGG
--CCGCGCCGTGCGC-

Original motif Consensus sequence: CCCTCACTGCCCGGGG

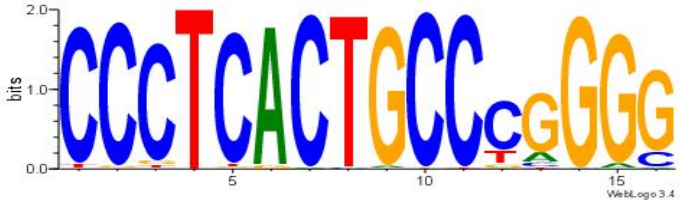

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

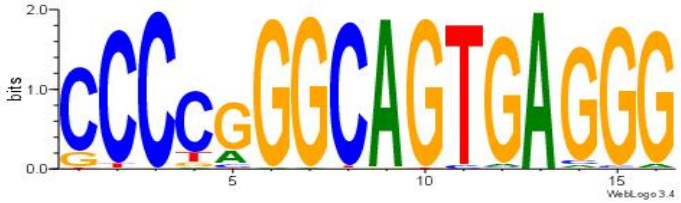

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0757686

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CCGCGCCGTGCGC-------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

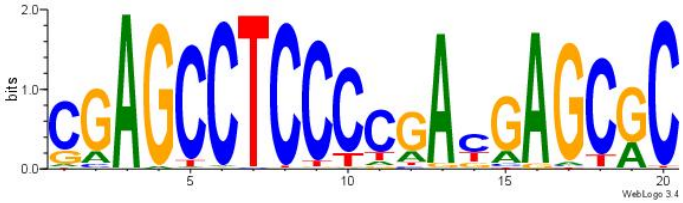

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

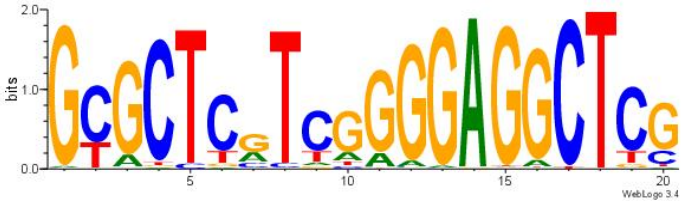

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0813393

Alignment:

```
GTAACACTCACCGCGARGGT
-----GCGCACGGCGCGG--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

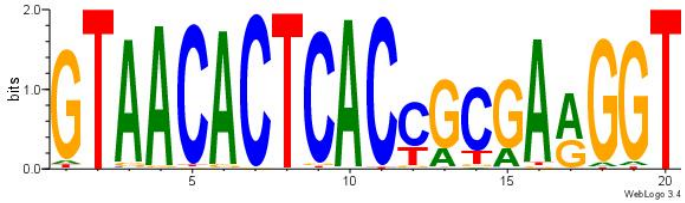

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

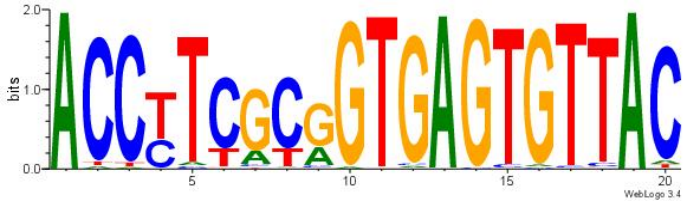

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 13
Similarity score: 0.0815837

Alignment:
GCTTAGCACCYGGGCCAGC
-----GCGCACGGCGCGG-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

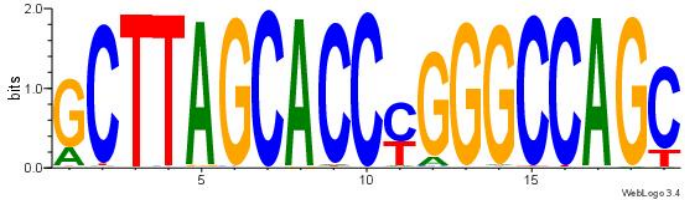

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

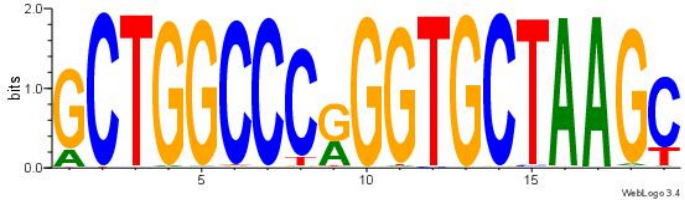

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.0819446

Alignment:
GCCACCAMGCCMKGCTAAT
----CCGCGCCGTGCGC--

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

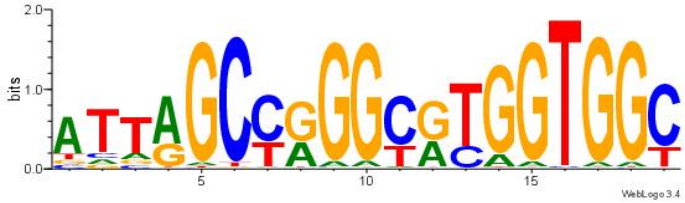

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

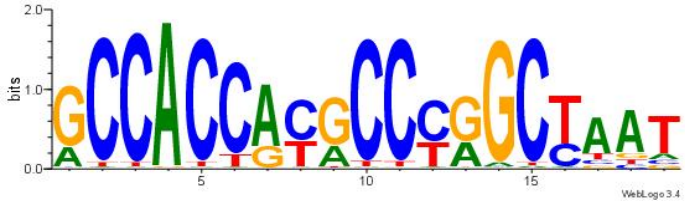

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.082036

Alignment:

```
CCGCTGCACTGTGGGAGCCC
----CCGCGCCGTGCGC---
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

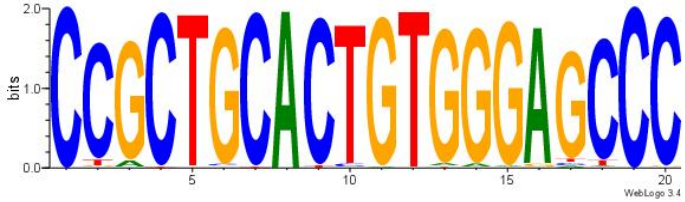

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

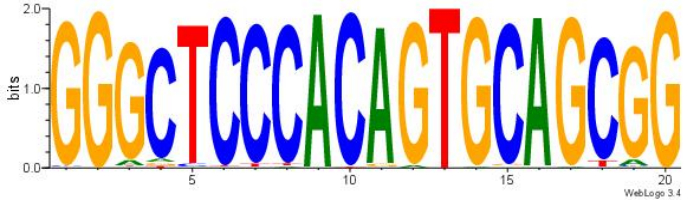

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0842726

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CCGCGCCGTGCGC--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

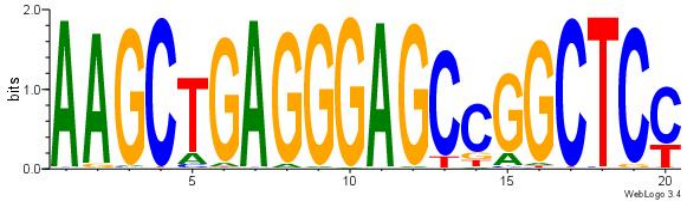

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

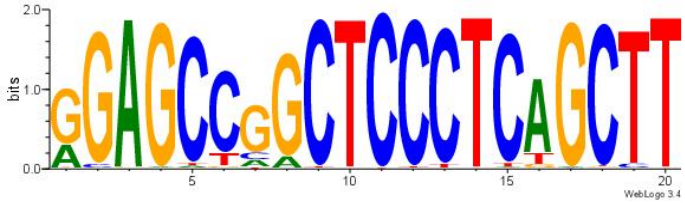

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0864213

Alignment:
CGCCCGGCCAGCCGC
CCGCGCCGTGCGC--

Original motif Consensus sequence: CGCCCGGCCAGCCGC

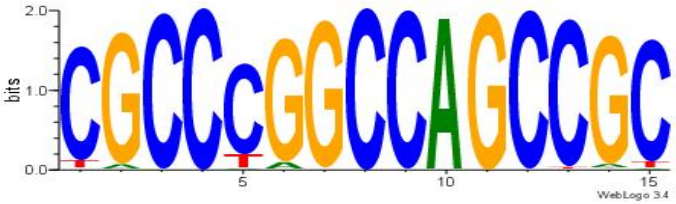

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

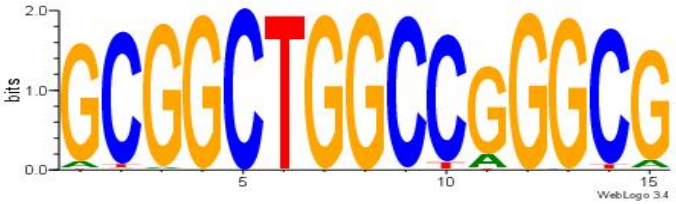

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0869359

Alignment:
CCGCGGGGCAGGGCTCG
---CCGCGCCGTGCGC-

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

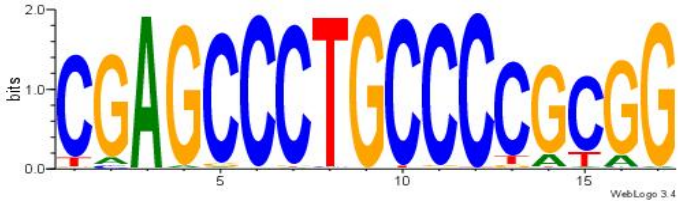

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

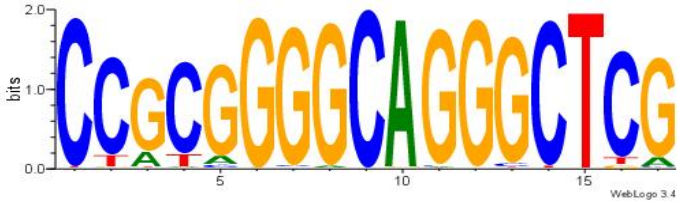

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0878308

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-------CCGCGCCGTGCGC
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

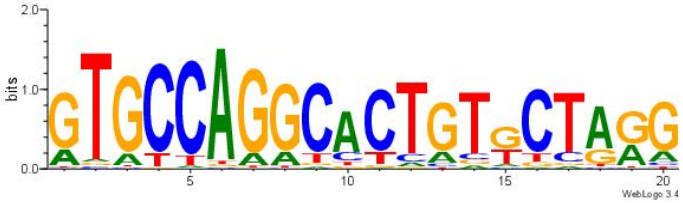

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

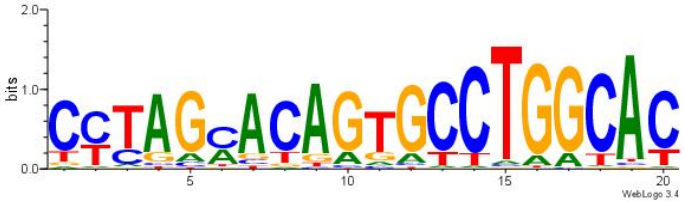

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0879538

Alignment:

```
GGCCMGCAGGGCKGGC
---GCGCACGGCGCGG
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

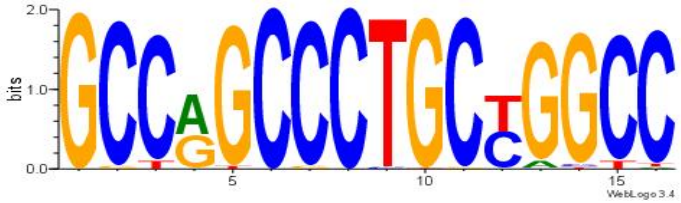

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

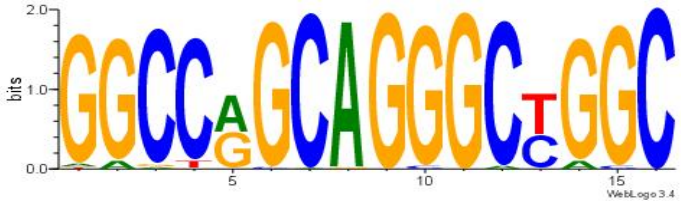

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0886115

Alignment:
GGAGGTGTGGAGGGAGAGGC
-GCGCACGGCGCGG------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

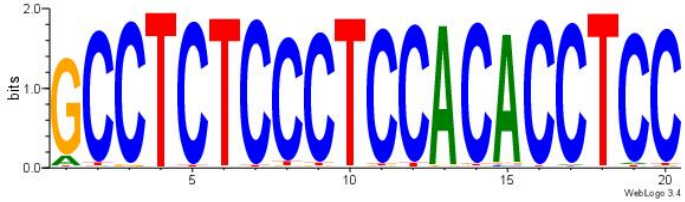

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

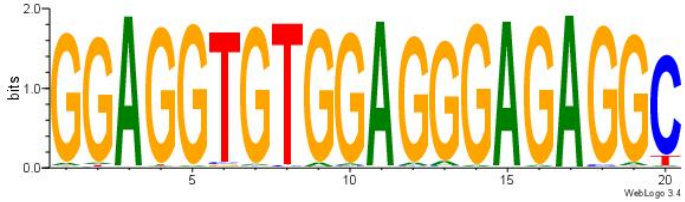

Dataset #: 1
Motif ID: 33
Motif name: Motif 33
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0889263

Alignment:
ACGCCCACGGAGTCTC
--GCGCACGGCGCGG-

Original motif Consensus sequence: ACGCCCACGGAGTCTC

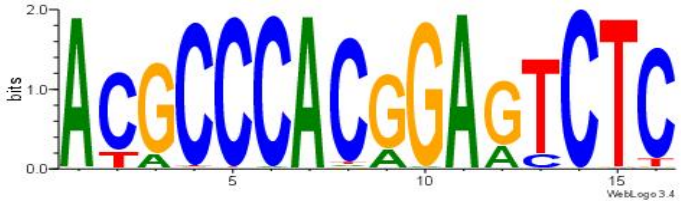

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

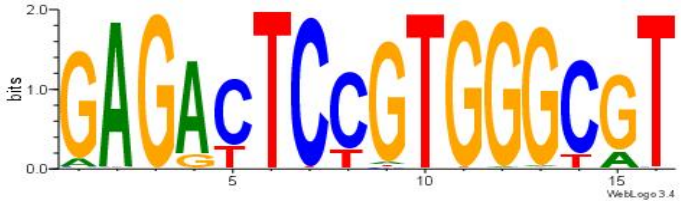

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0897984

Alignment:

```
CTGCGTCGCTCAC
CCGCGCCGTGCGC
```

Original motif Consensus sequence: CTGCGTCGCTCAC

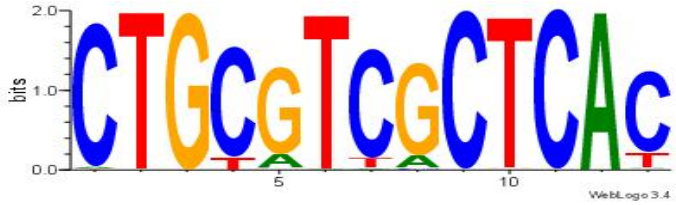

Reverse complement motif Consensus sequence: GTGAGCGACGCAG

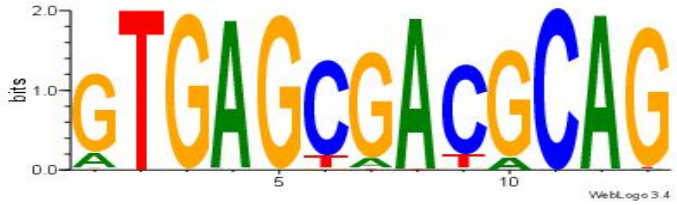

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0942175

Alignment:

```
GAGSTTGCAGTGAGC
--CCGCGCCGTGCGC
```

Original motif Consensus sequence: GCTCACTGCAASCTC

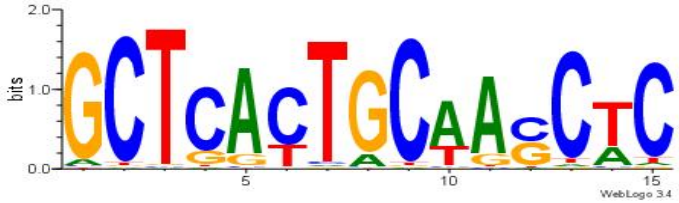

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

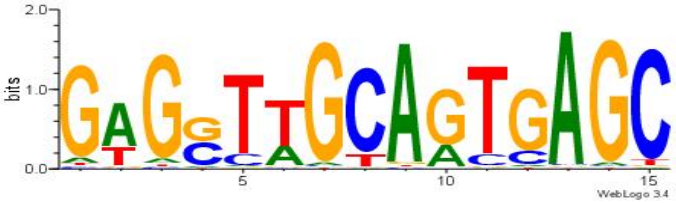

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.0944969

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCGCACGGCGCGG------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

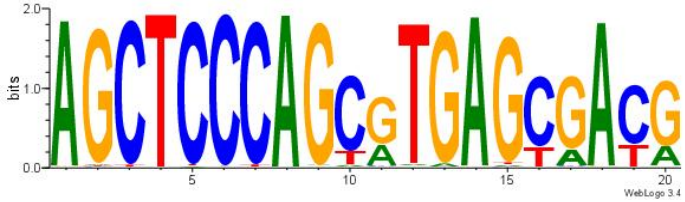

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

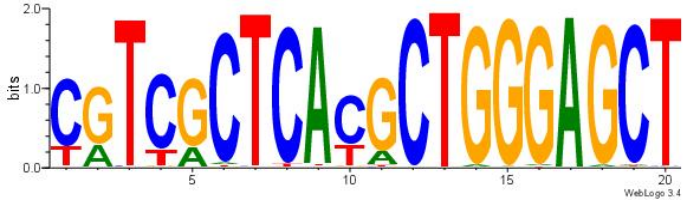

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.09932

Alignment:
AAAGTGCCGAGAKTGCAGC
-----GCGCACGGCGCGG-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

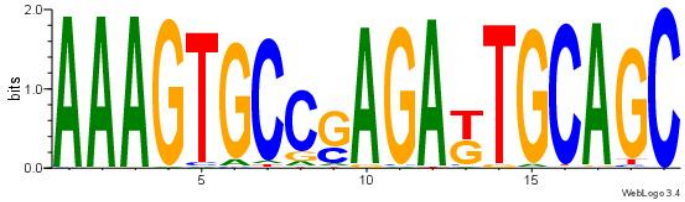

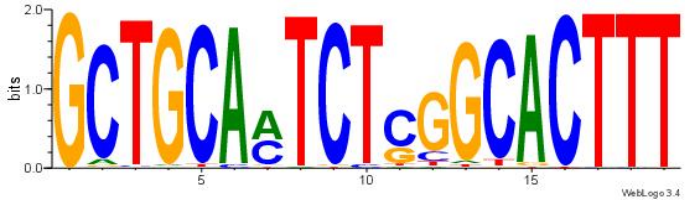

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0997177

Alignment:

```
GCTCCACCCAGTTCGAGCTT
---CCGCGCCGTGCGC----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

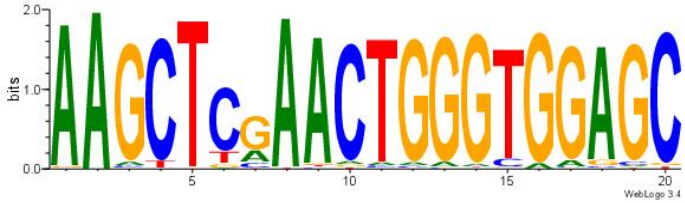

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

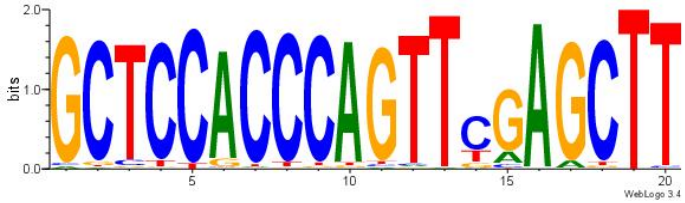

Dataset #: 1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.100563

Alignment:

```
GAAAAGCGCAGTATTMGGG
-----GCGCACGGCGCGG-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

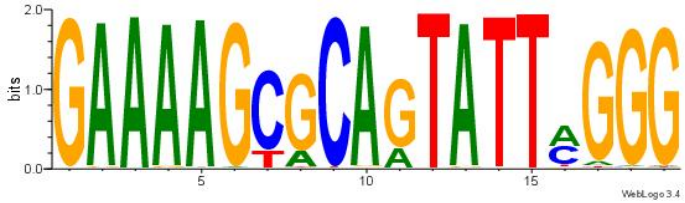

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

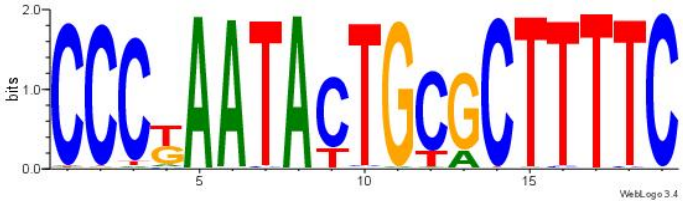

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.100843

Alignment:
CCCGAAGCTGCRYRCTCGGT
--CCGCGCCGTGCGC-----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

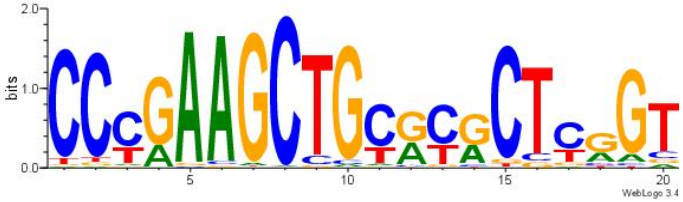

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

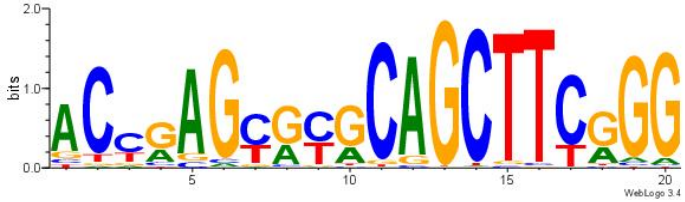

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.101096

Alignment:
GAGGAGGRGGAGGDGGV
GCGCACGGCGCGG----

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

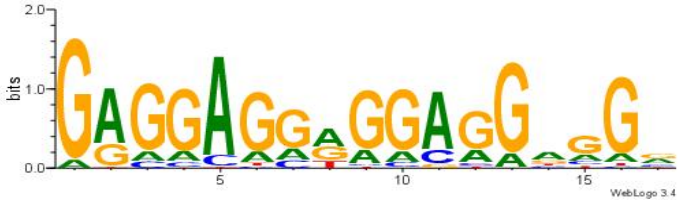

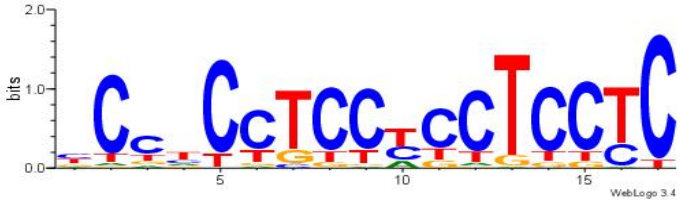

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.103142

Alignment:

```
CTTTCTGGGCTGGCCAAGG
GCGCACGGCGCGG------
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

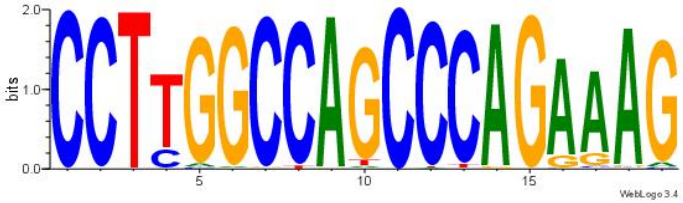

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

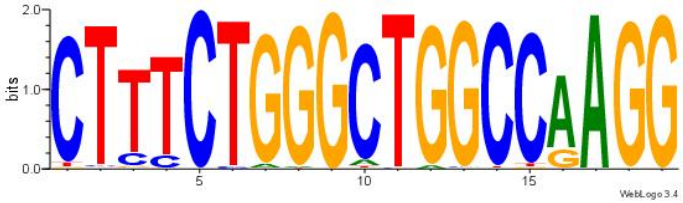

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.105023

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
------CCGCGCCGTGCGC-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

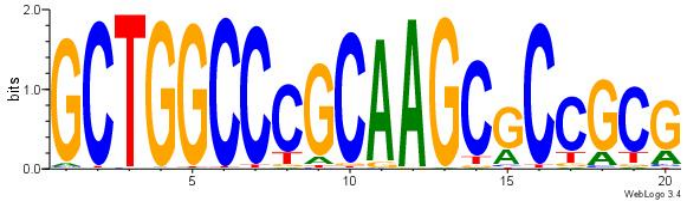

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

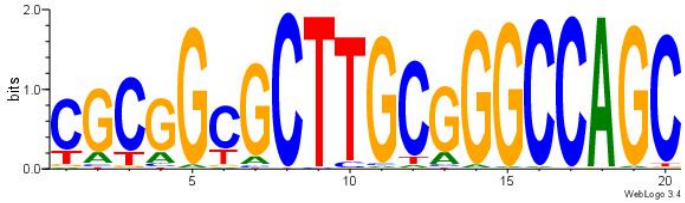

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.10539

Alignment:
AGTTCCGGGTGGGCGTGGG
-----GCGCACGGCGCGG-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

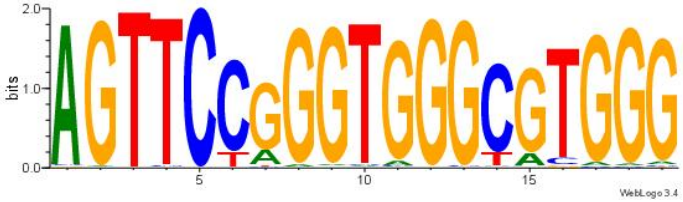

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

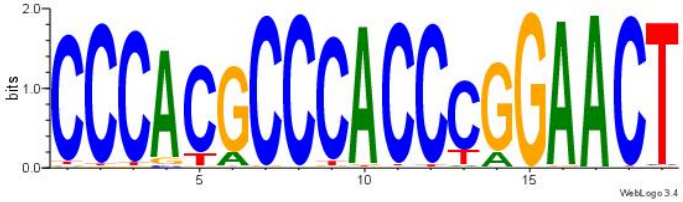

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.105477

Alignment:
GGCTGCGGAGGGTGTA
-CCGCGCCGTGCGC--

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

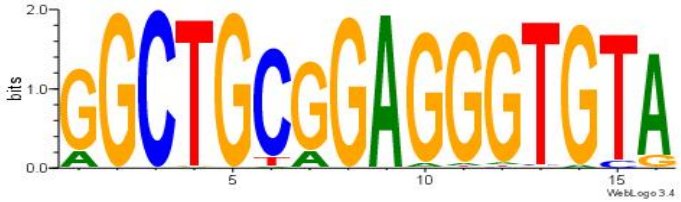

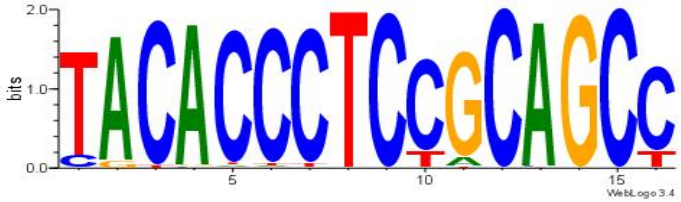

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.105717

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-CCGCGCCGTGCGC------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

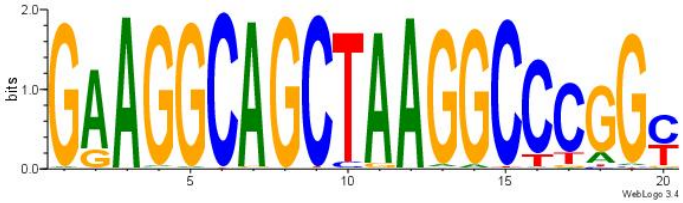

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

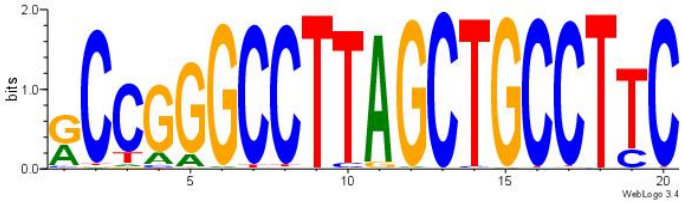

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.10573

Alignment:

```
TTMGTCCCAGAGGGGCACC
-----CCGCGCCGTGCGC-
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

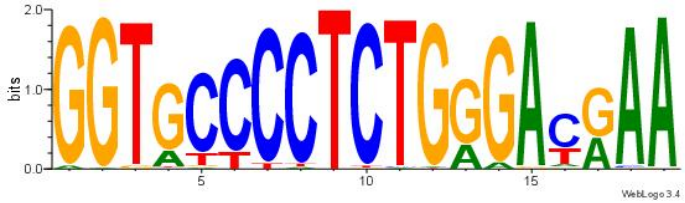

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

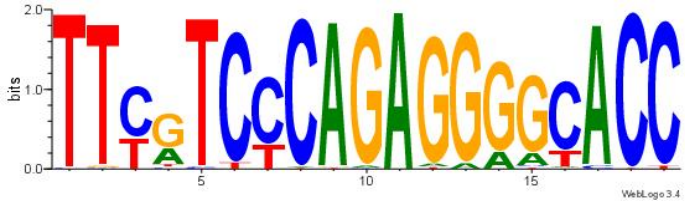

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.106262

Alignment:
ACATCCCAGACGATGGGCG
-CCGCGCCGTGCGC-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

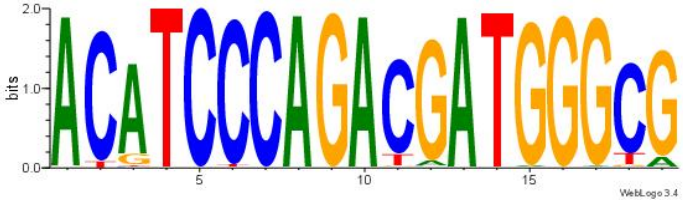

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

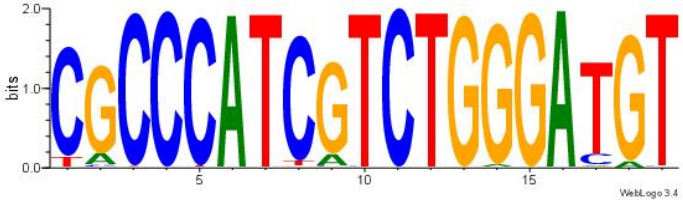

Dataset #: 1
Motif ID: 217
Motif name: Motif 217
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.10631

Alignment:
KGAGAACAGTAGGG
-GCGCACGGCGCGG

Original motif Consensus sequence: CCCTACTGTTCTCY

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

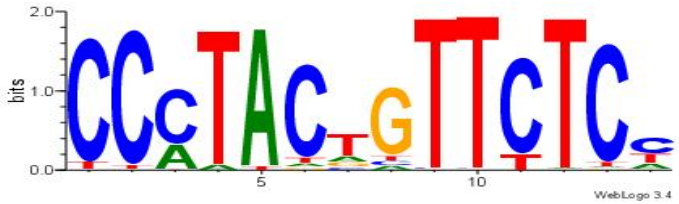

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.106526

Alignment:

```
AGACAGTGGGYGCAGGHCA
--GCGCACGGCGCGG----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

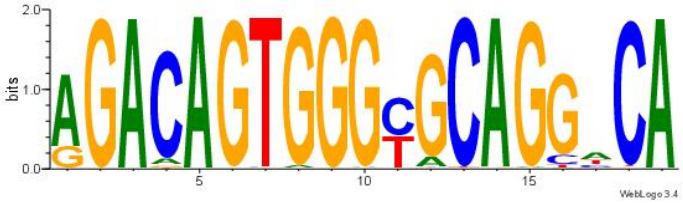

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

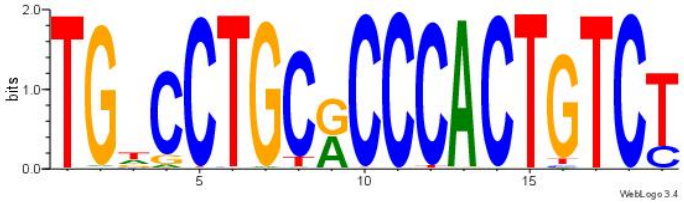

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.106784

Alignment:

```
GCCAGGCAGAGRGKCTCCT
-----CCGCGCCGTGCGC-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

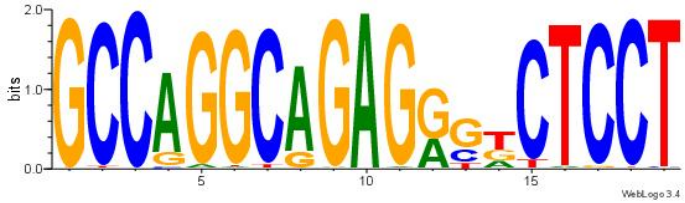

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

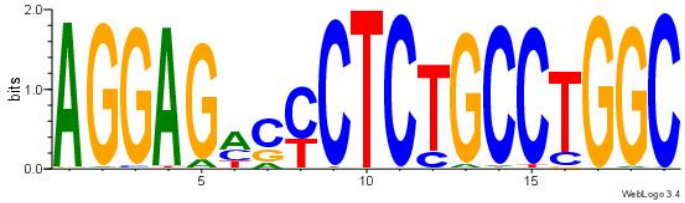

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.107433

Alignment:
GCGMGCGGGAACCGGGGCT
--GCGCACGGCGCGG----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

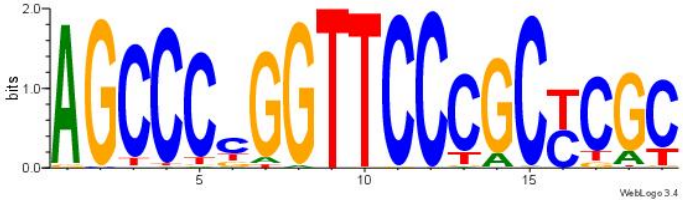

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

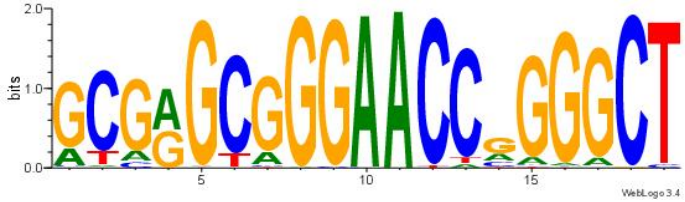

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.10851

Alignment:
MGTCTMKCTCTGTKGCCCAG
----CCGCGCCGTGCGC---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

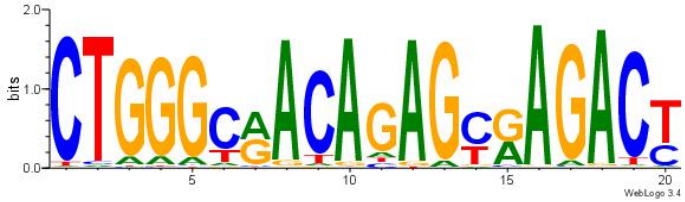

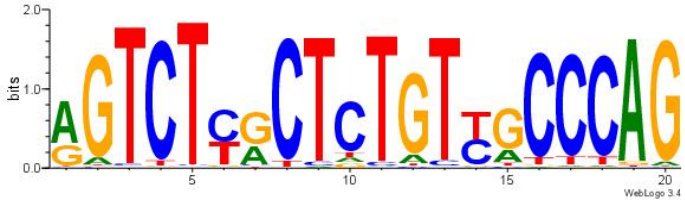

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.109311

Alignment:

```
TTGTCCCACTGGAAGGTCTT
---GCGCACGGCGCGG----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

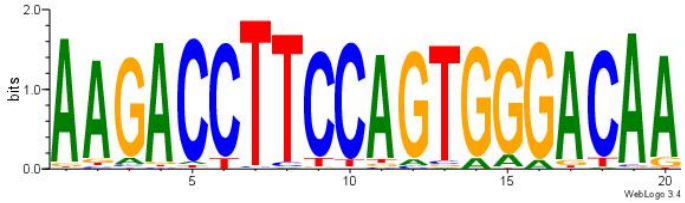

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

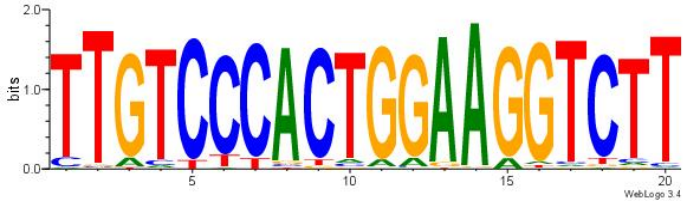

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.109982

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
---CCGCGCCGTGCGC----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

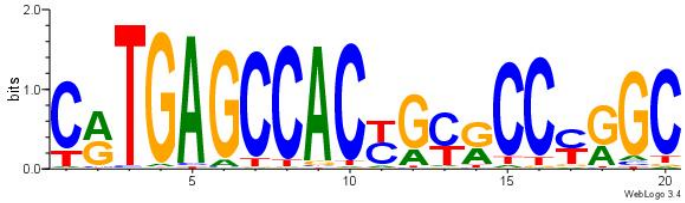

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

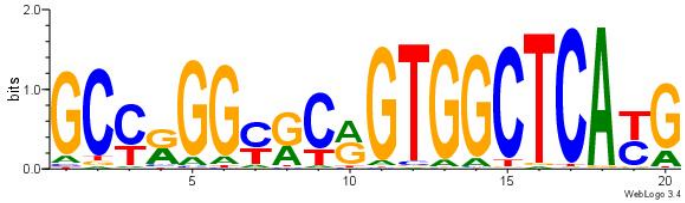

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.110014

Alignment:
GCTTCTGGTGAGGGC
GCGCACGGCGCGG--

Original motif Consensus sequence: GCCCTCACCAGAAGC

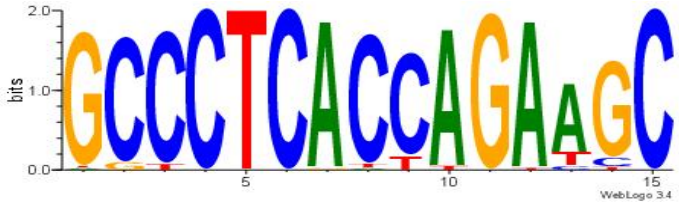

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

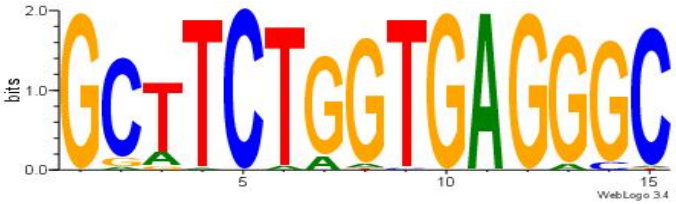

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.110044

Alignment:
CTATTGTGAATARTGCTGC
-----GCGCACGGCGCGG-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

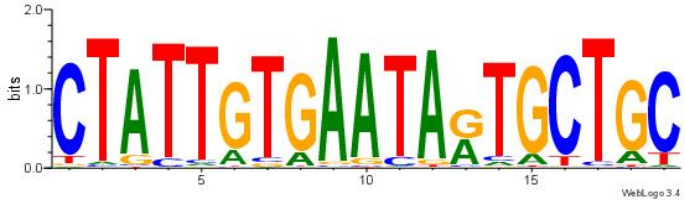

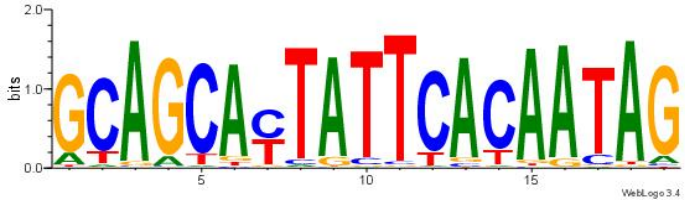

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.110371

Alignment:

```
CTCTGCCCGGCCGC
-CCGCGCCGTGCGC
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

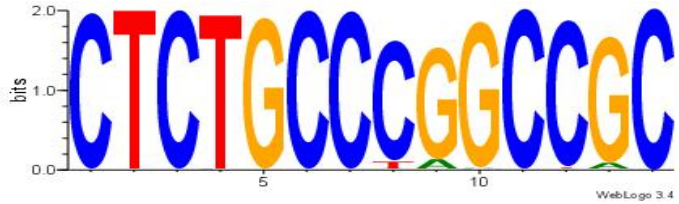

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

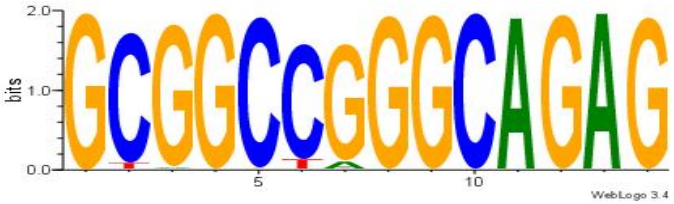

Dataset #:	1
Motif ID:	68

Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.11084

Alignment:

```
CATGGCGGGCTGCAGGTC
----GCGCACGGCGCGG-
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

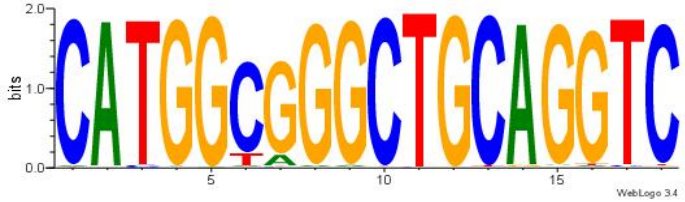

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

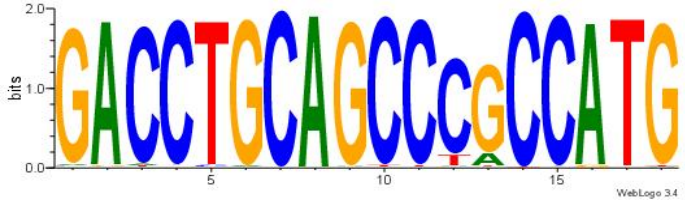

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.110892

Alignment:
GTAGACKGGAGCTGTTCCT
-----GCGCACGGCGCGG-

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

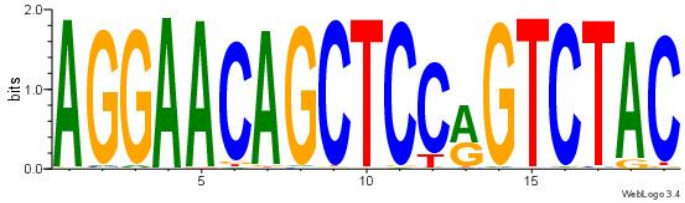

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

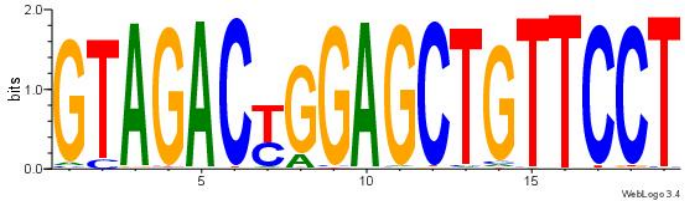

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.111235

Alignment:
ATCTGACAGGAGGYRGAGCT
---GCGCACGGCGCGG----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

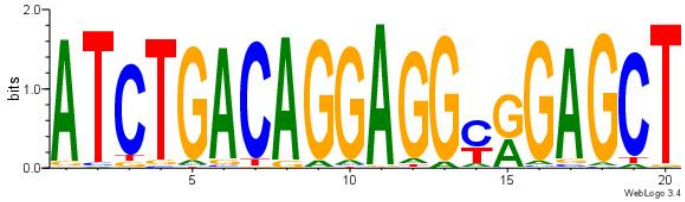

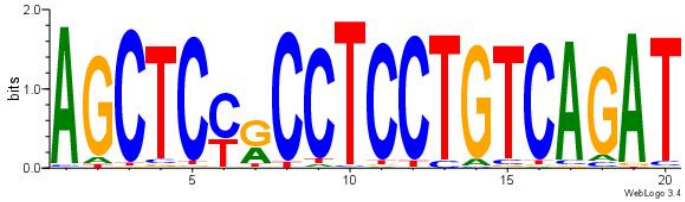

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.111293

Alignment:
CTCCTGCCTCAGCCTCCCRA
-------CCGCGCCGTGCGC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

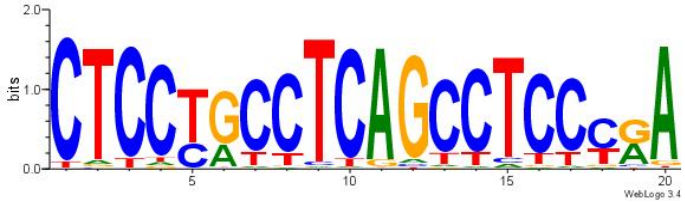

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

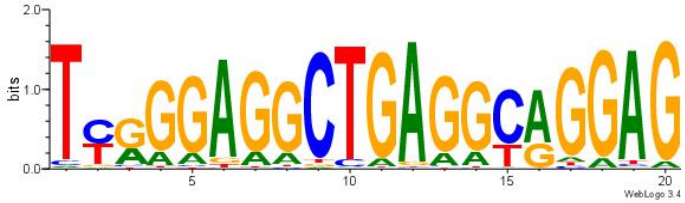

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.111612

Alignment:

```
AGAGCTCTGGCTGGCATCT
-GCGCACGGCGCGG-----
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

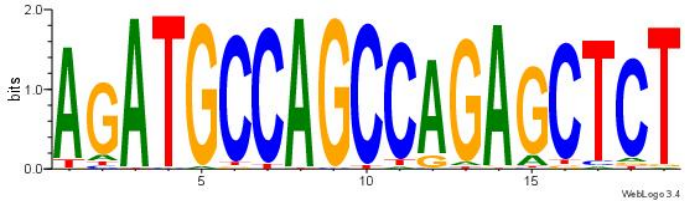

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

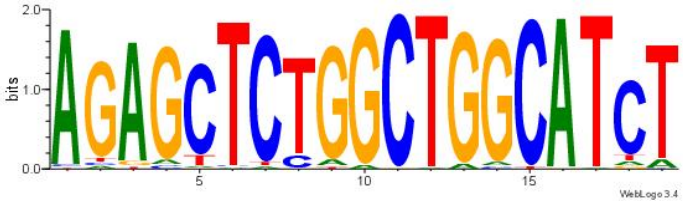

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.112211

Alignment:
CCTGCCATTGCYSAGGCTTG
CCGCGCCGTGCGC-------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

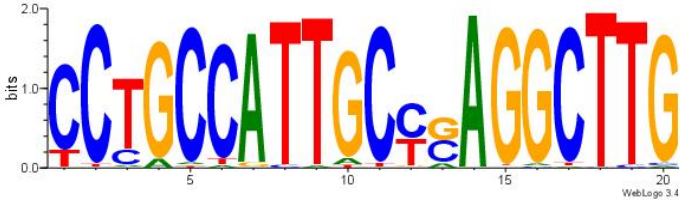

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

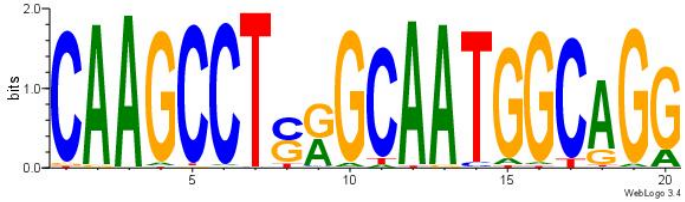

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.113554

Alignment:
TCACKMGGGAAGCGCAAG
--CCGCGCCGTGCGC---

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

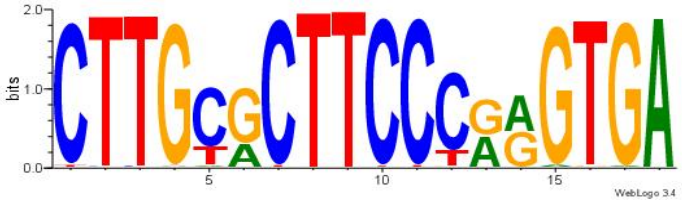

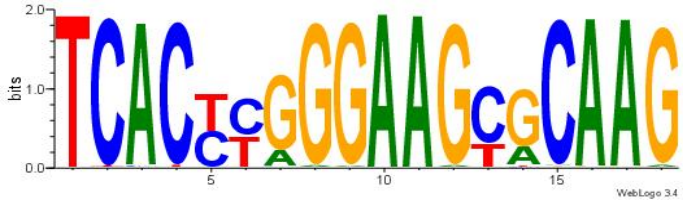

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.113672

Alignment:

```
GGGGGCTGACCCCCCCACC
-CCGCGCCGTGCGC-----
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

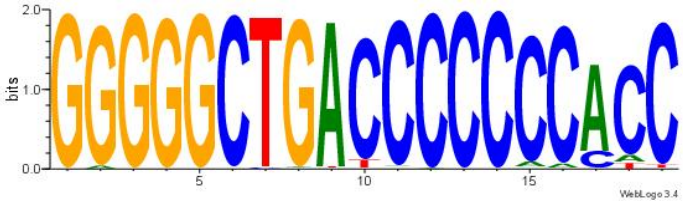

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

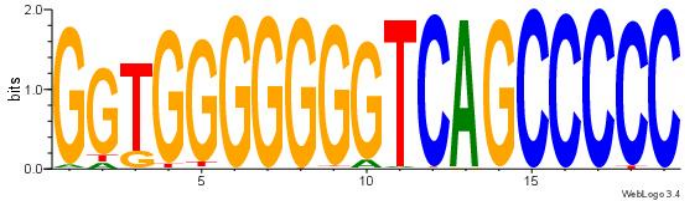

Dataset #: 1 Motif ID: 158 Motif name: Motif 158

Original motif Consensus sequence: TAGTTTGCTGA

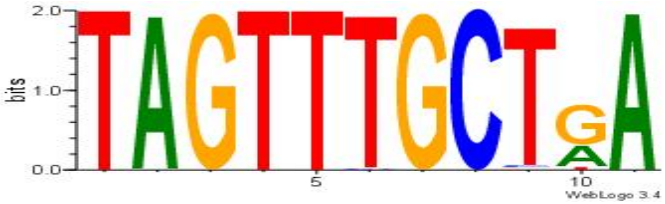

Reverse complement motif Consensus sequence: TCAGCAAACTA

Best Matches for Motif ID 158 (Highest to Lowest)

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0721214

Alignment:

```
ACATCMTCTGAAATCTAGG
------TCAGCAAACTA--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

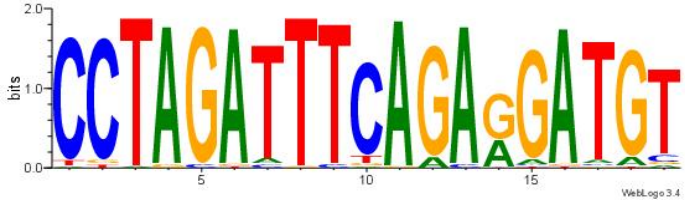

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

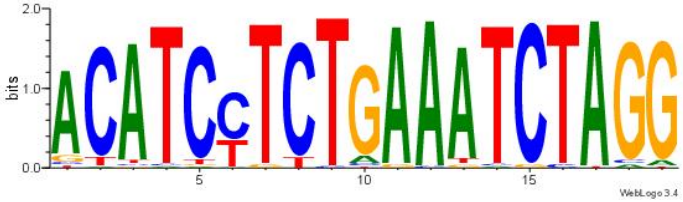

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.077411

Alignment:

```
GGTTCATCTCACTAGGGAGT
------TCAGCAAACTA---
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

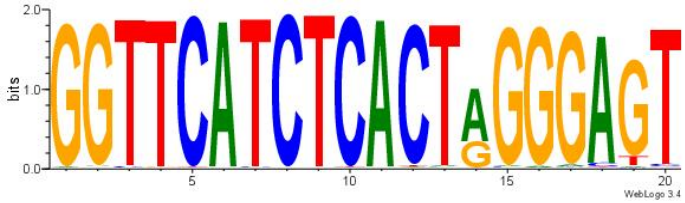

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

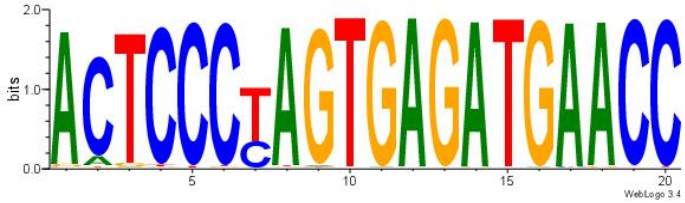

Dataset #:	1
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 11
Similarity score: 0.0826841

Alignment:
AAGATGGCCGAAT
TAGTTTGCTGA--

Original motif Consensus sequence: AAGATGGCCGAAT

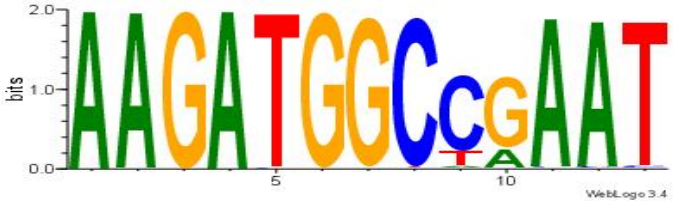

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

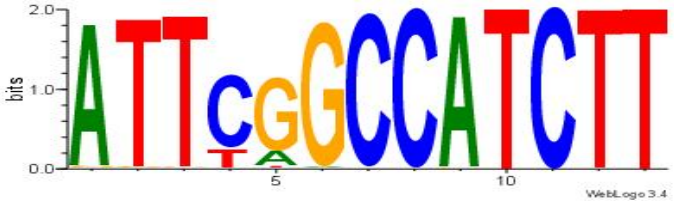

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0832491

Alignment:
AAGAGGTTTAATTGRCTCA
--------TAGTTTGCTGA

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

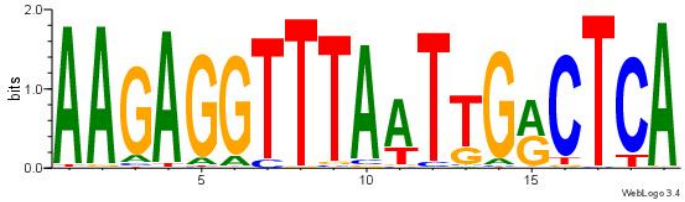

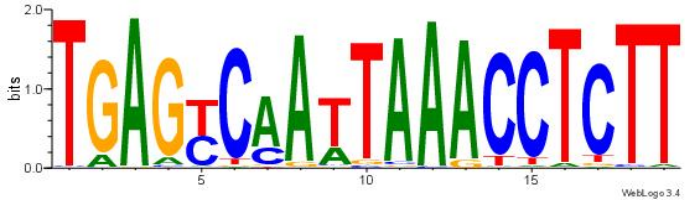

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0844969

Alignment:

```
GCAGTGAGCYRAGA
-TAGTTTGCTGA--
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

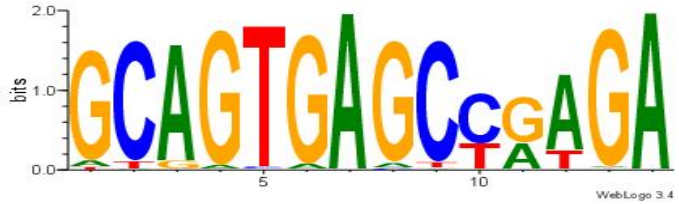

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

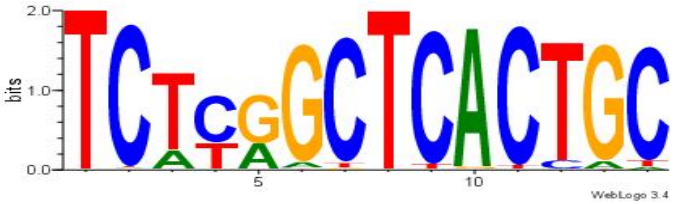

Dataset #:	1
Motif ID:	308

Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0849842

Alignment:

```
AAATTAGGCCAATTAATAAC
----TCAGCAAACTA-----
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

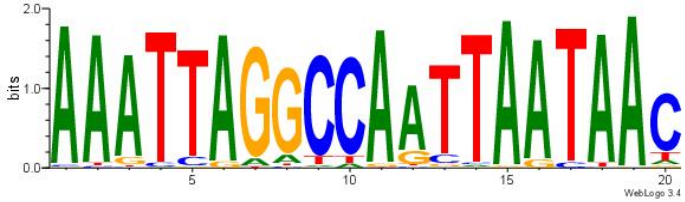

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0875943

Alignment:
GAAHCAACCKAAKTGTCCAT
TCAGCAAACTA---------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

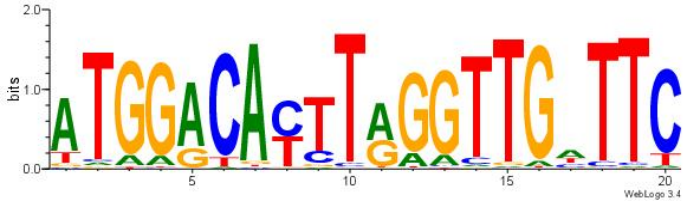

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

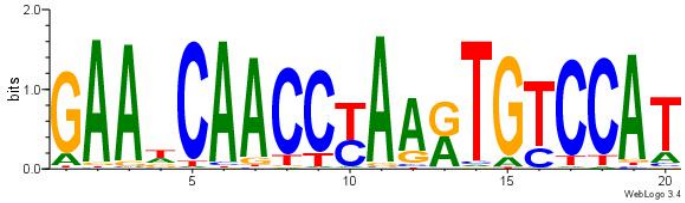

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0886453

Alignment:
CATTATGCTAARTG
TAGTTTGCTGA---

Original motif Consensus sequence: CATTATGCTAARTG

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

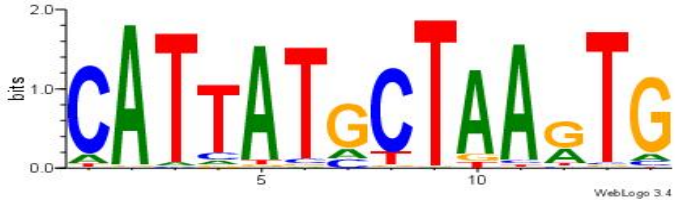

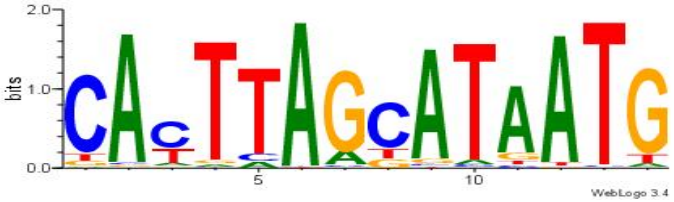

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0889761

Alignment:

```
TCGTTCACTCAGTGC
TAGTTTGCTGA----
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

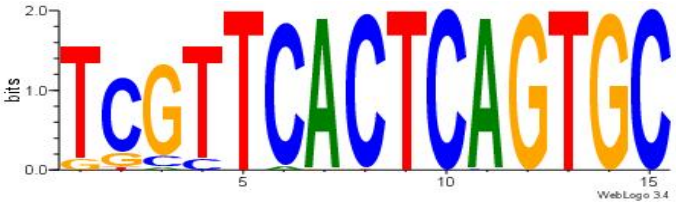

Dataset #:	1
Motif ID:	336

Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0904301

Alignment:

```
ATGTAACCAAAYACCACCTG
---TCAGCAAACTA------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

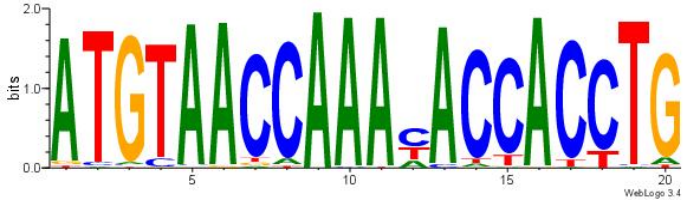

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

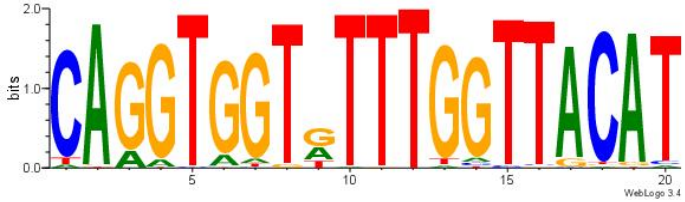

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0909606

Alignment:
GCCGTTTKTTAAGCCCGTY
-TAGTTTGCTGA-------

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

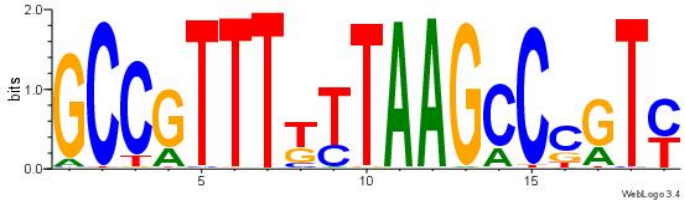

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

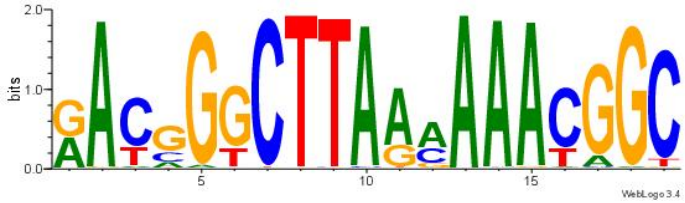

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0911845

Alignment:
ATAAAAACTTGCTGGTTTT
----TAGTTTGCTGA----

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

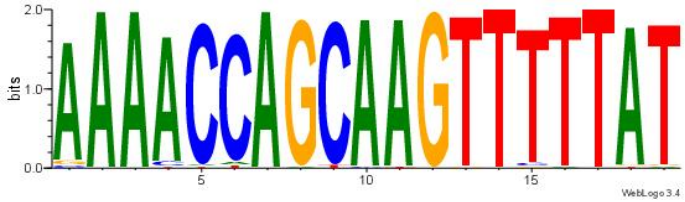

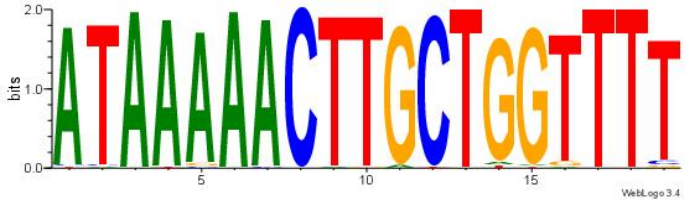

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0914

Alignment:

```
AGCAGYTTGGAAACACT
--TAGTTTGCTGA----
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

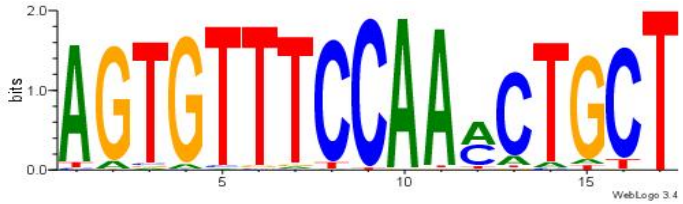

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

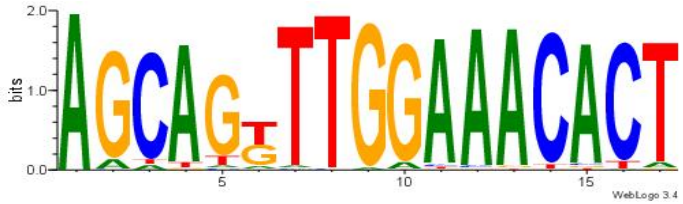

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0917025

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-TAGTTTGCTGA--------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

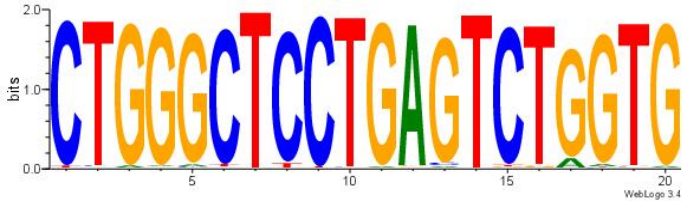

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

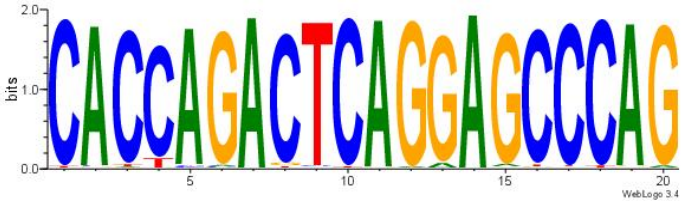

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0918206

Alignment:
CACTTTCCAGACTGGGCA
-------TAGTTTGCTGA

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

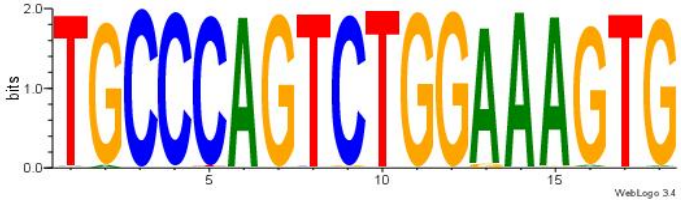

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

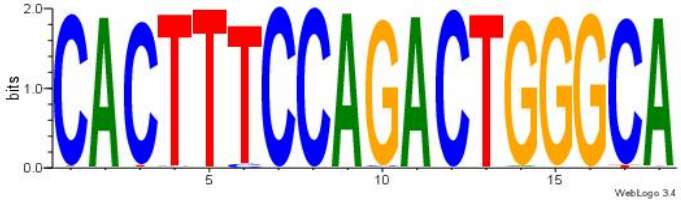

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0925743

Alignment:
GTGTCKGGAGTTTGTTCCTT
-------TAGTTTGCTGA--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

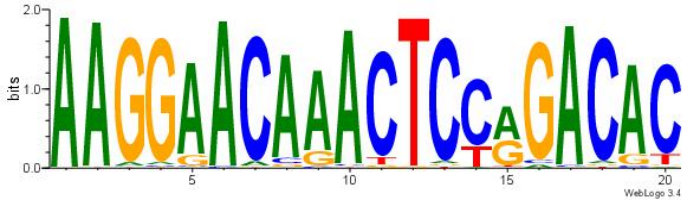

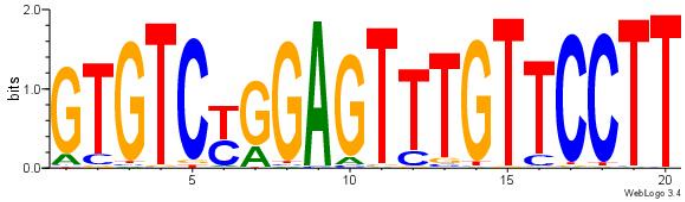

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0931853

Alignment:

```
AAGTCTCCCAATTACAACT
---TCAGCAAACTA-----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

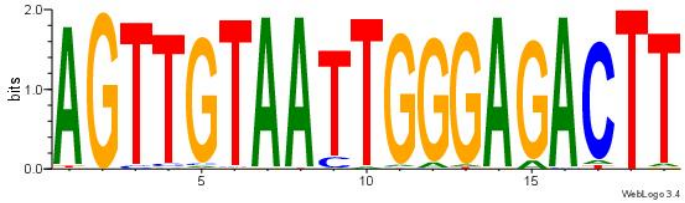

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

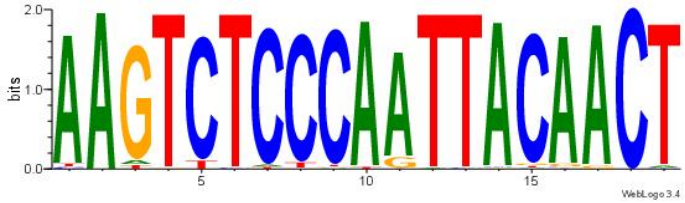

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0934312

Alignment:

```
GACAGGAGATTAACACTGAG
-TCAGCAAACTA--------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

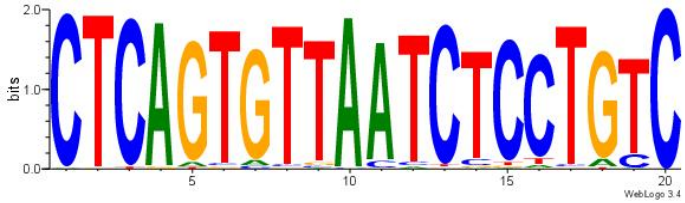

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

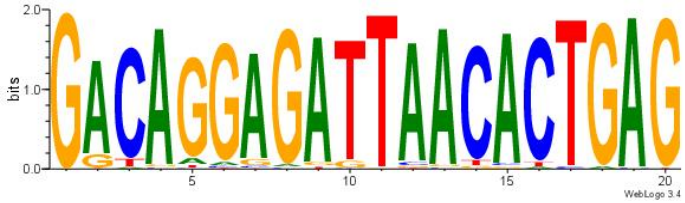

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0936259

Alignment:
GGTTTTCCATTCCTGAG
-----TAGTTTGCTGA-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

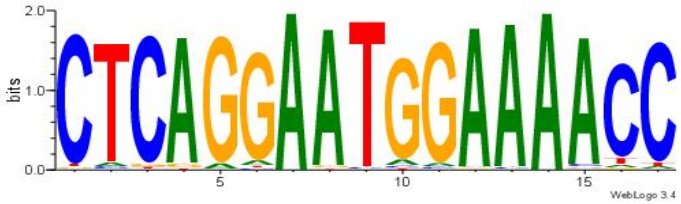

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

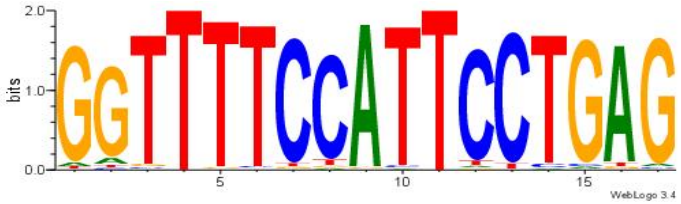

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0954019

Alignment:
MGGGATATAATCTCCTGGTG
--TAGTTTGCTGA-------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

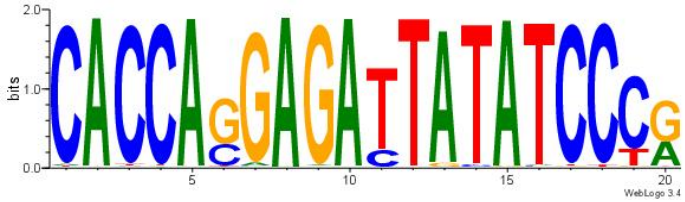

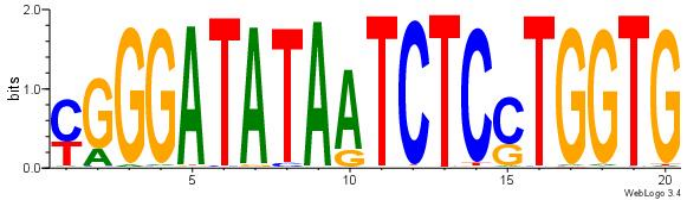

Dataset #:	1
Motif ID:	300
Motif name:	Motif 300
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.096482

Alignment:

```
TCTGTAAAATG
TCAGCAAACTA
```

Original motif Consensus sequence: CATTTTACAGA

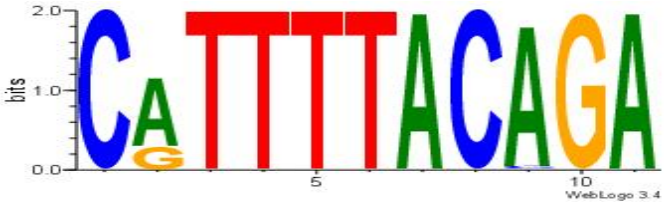

Reverse complement motif Consensus sequence: TCTGTAAAATG

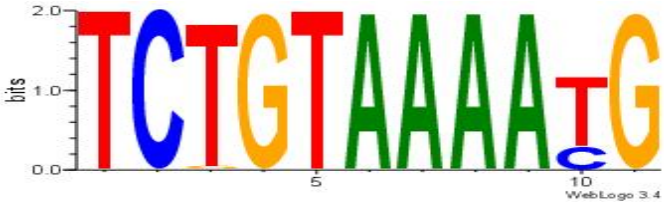

Dataset #:	1
Motif ID:	64

Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0987989

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-TAGTTTGCTGA--------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

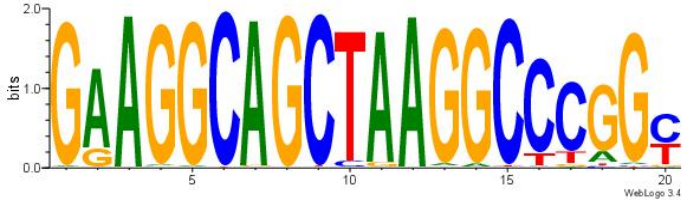

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

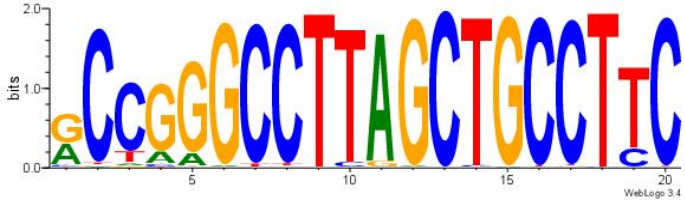

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.100198

Alignment:
CCCYAATACTGCGCTTTTC
--TAGTTTGCTGA------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

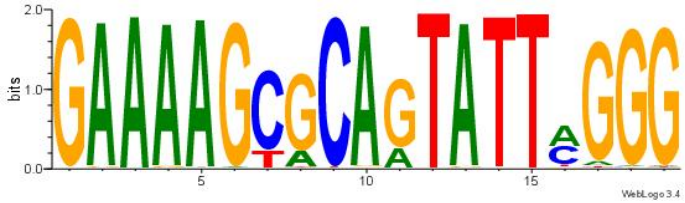

Reverse complement motif Consensus sequence:
CCCYAATACTGCGCTTTTC

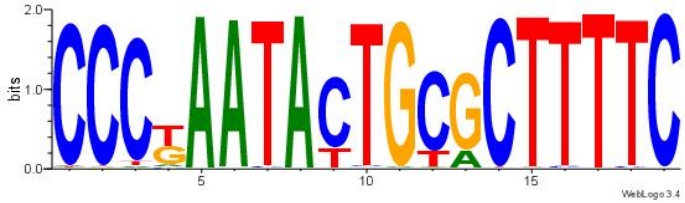

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.101047

Alignment:
AGGTTTGTTACATAGGTAWA
TAGTTTGCTGA---------

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

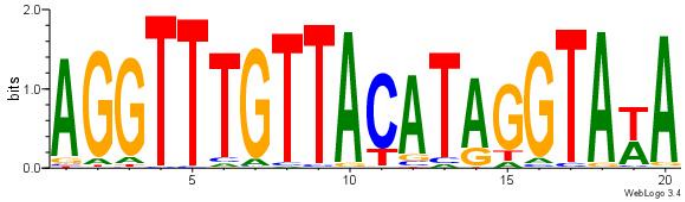

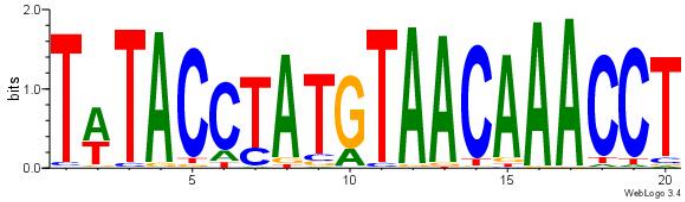

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.101365

Alignment:

```
HAGTGGKATTGCTGGATCAT
-----TAGTTTGCTGA----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

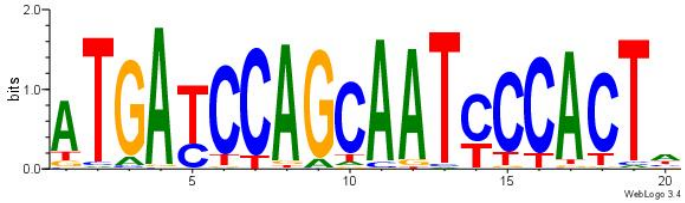

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

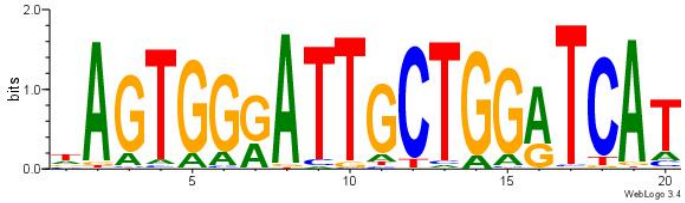

Dataset #: 1

Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.101558

Alignment:

```
TAGTTTTTAACAA
TAGTTTGCTGA--
```

Original motif Consensus sequence: TAGTTTTTAACAA

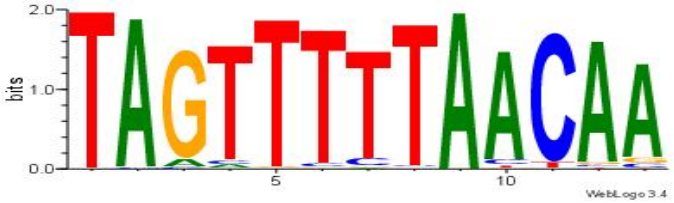

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

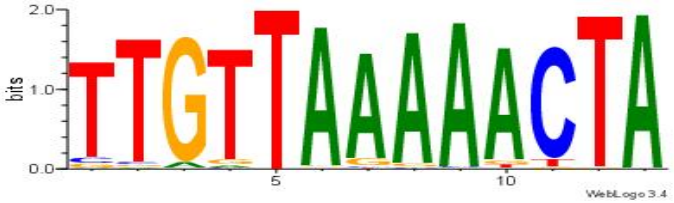

Dataset #:	1
Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.1016

Alignment:
MTTGACTACCCTA
--TCAGCAAACTA

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

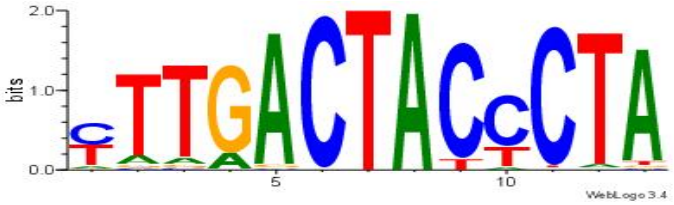

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101993

Alignment:
GCAGCAMTATTCACAATAG
-------TCAGCAAACTA-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

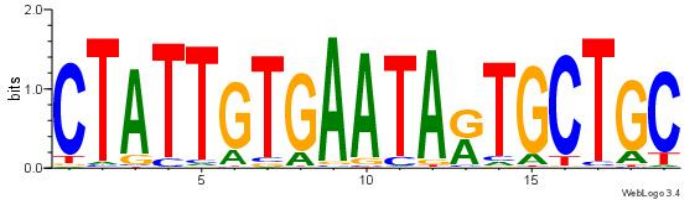

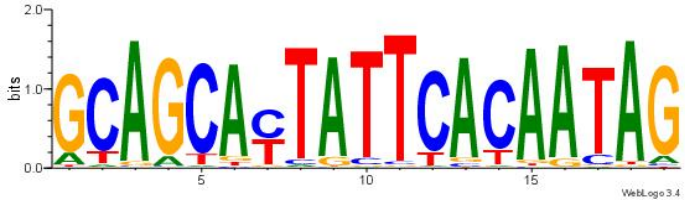

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.102048

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
---TAGTTTGCTGA------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

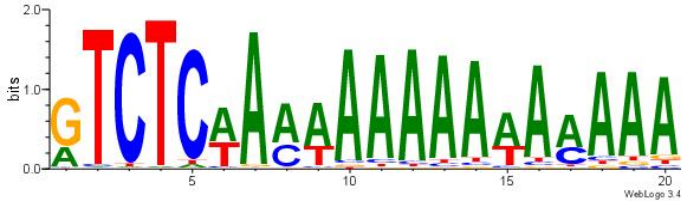

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

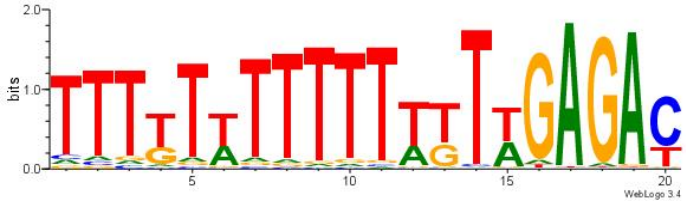

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.102183

Alignment:

```
TTCAMTCATGATTTGGCTCT
---------TAGTTTGCTGA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

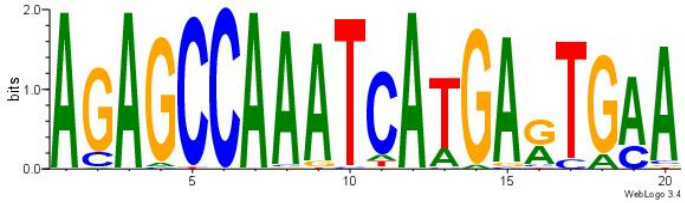

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

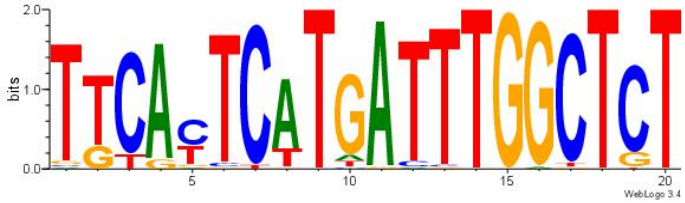

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.102478

Alignment:
GCTGCARTCTCGGCACTTT
TCAGCAAACTA--------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

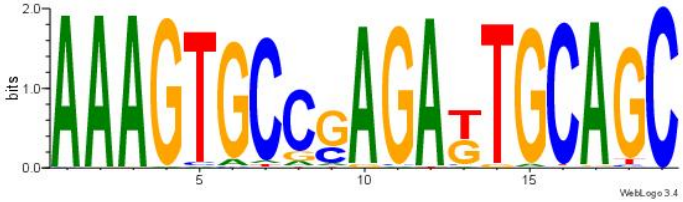

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

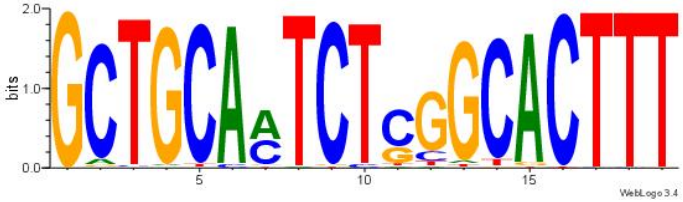

Dataset #: 1
Motif ID: 210
Motif name: Motif 210
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.103087

Alignment:
CTCGGATGGTAA
-TAGTTTGCTGA

Original motif Consensus sequence: CTCGGATGGTAA

Reverse complement motif Consensus sequence: TTACCATCCGAG

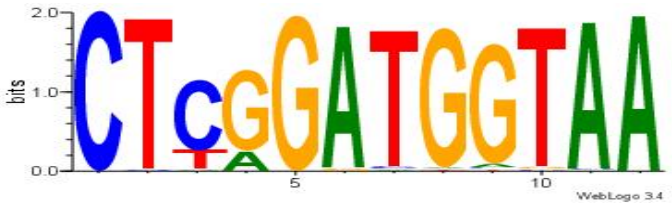

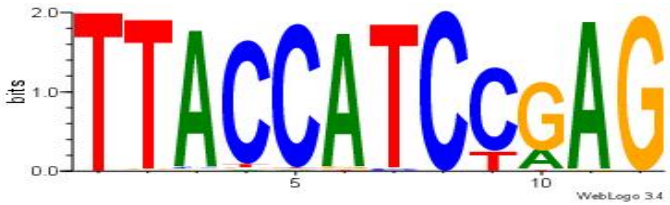

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.103089

Alignment:

```
CTTCGCTGACTCTCTTT
-TCAGCAAACTA-----
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

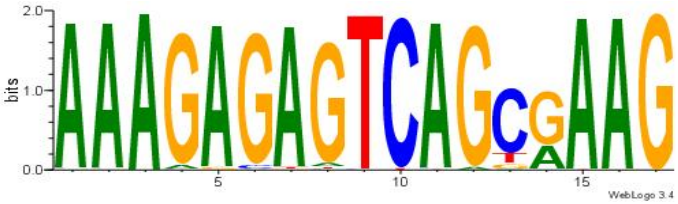

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

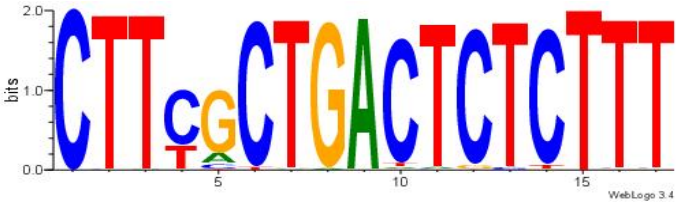

Dataset #: 1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.10348

Alignment:

```
TGATACCCAGGCAAACAG
-------TCAGCAAACTA
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

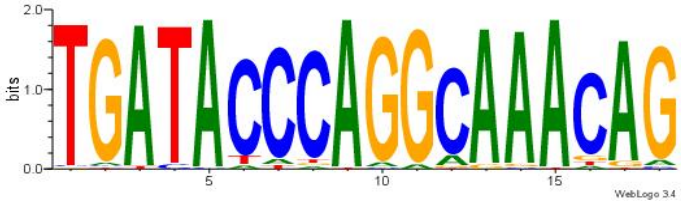

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

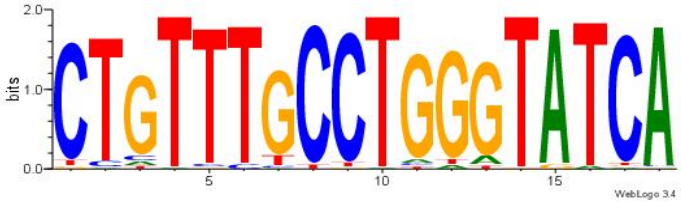

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.103533

Alignment:
AGGTATTTCTCCCACC
---TAGTTTGCTGA--

Original motif Consensus sequence: AGGTATTTCTCCCACC

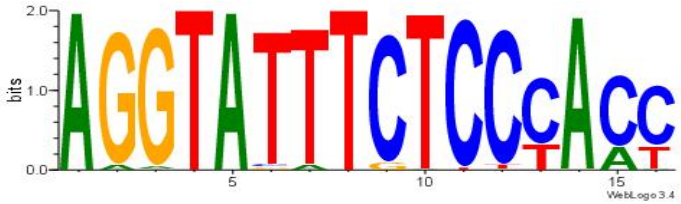

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

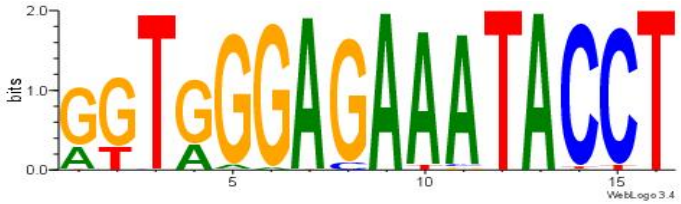

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.103794

Alignment:
TGCTCACACAAAGCCTGT
TCAGCAAACTA-------

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

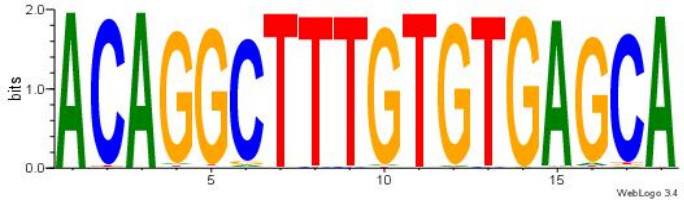

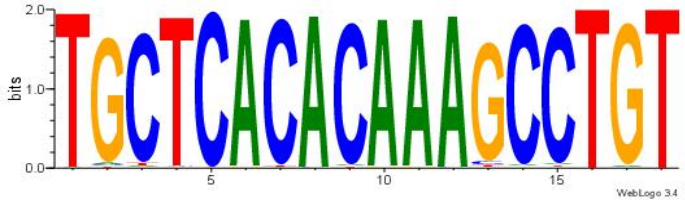

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.104482

Alignment:

```
GCAWSTGCAAAGGCCCT
---TCAGCAAACTA---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

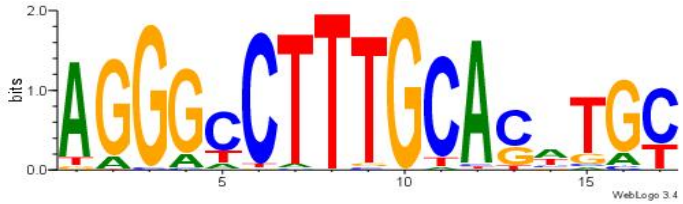

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

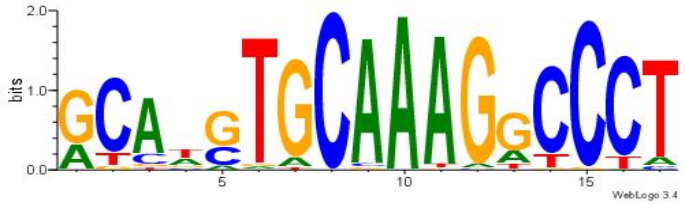

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.104856

Alignment:

```
GGGTGCAGGMGGGCTGAGT
--TAGTTTGCTGA------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

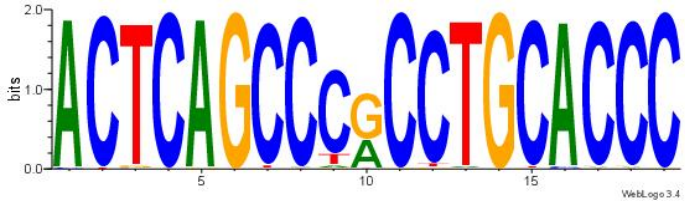

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

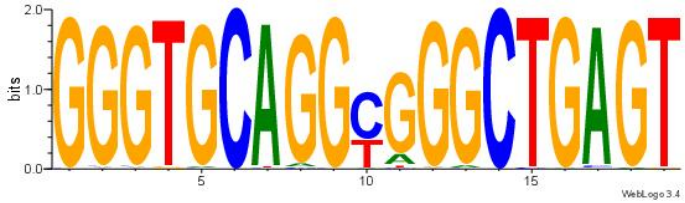

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.104866

Alignment:
GGGATTGTAAATACACCAAT
-------TCAGCAAACTA--

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

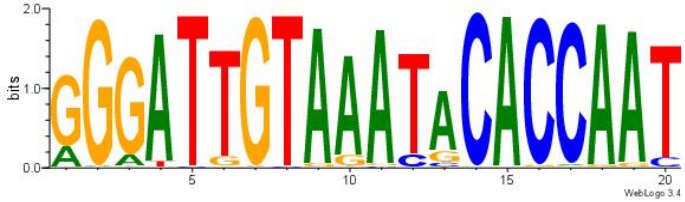

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.10487

Alignment:
CTCCTGCCTCAGCCTCCCRA
---------TAGTTTGCTGA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

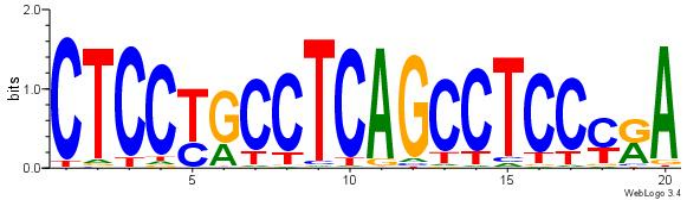

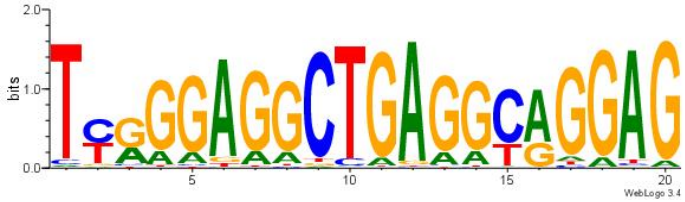

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.105288

Alignment:

```
TTGGTGGTCTCTTCACA
----TAGTTTGCTGA--
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

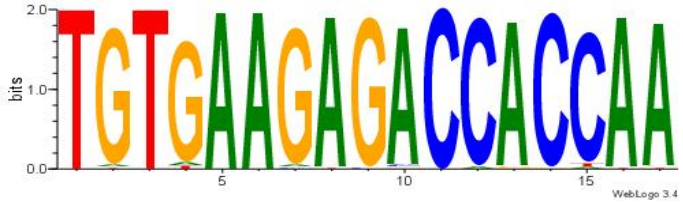

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

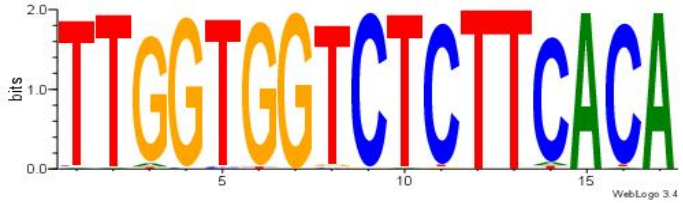

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.105385

Alignment:

```
TAATTTTATGTGTCAACTTG
TAGTTTGCTGA---------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

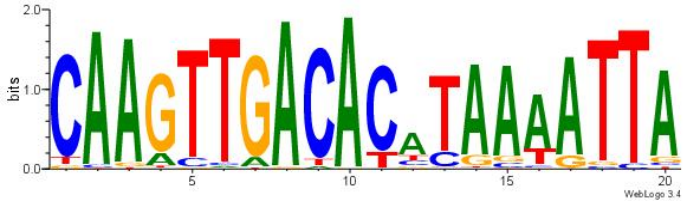

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

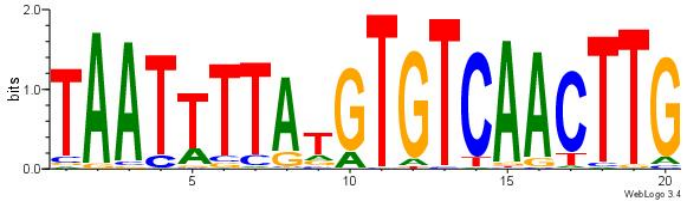

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.105386

Alignment:
AWTKKTGGTTKCCAGKGGCT
----TAGTTTGCTGA-----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

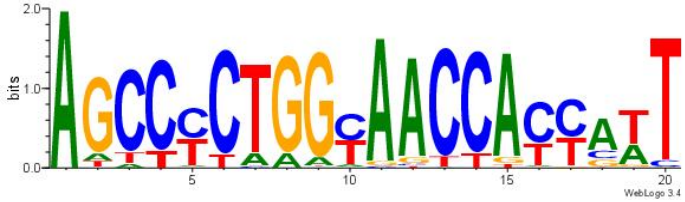

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

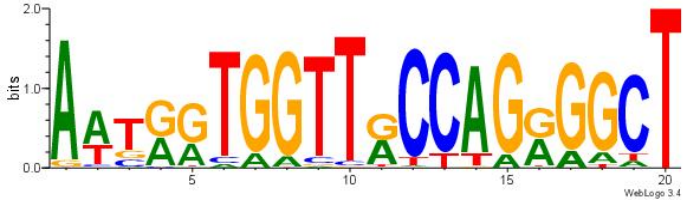

Dataset #: 1
Motif ID: 143
Motif name: Motif 143
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.105755

Alignment:
GTGAGCGACGCAG
-TCAGCAAACTA-

Original motif Consensus sequence: CTGCGTCGCTCAC

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

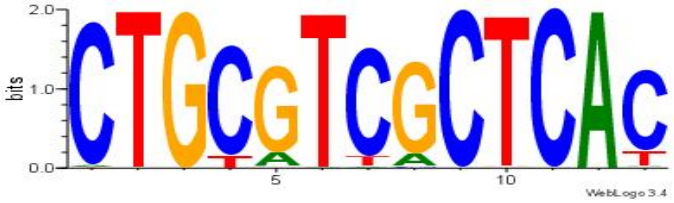

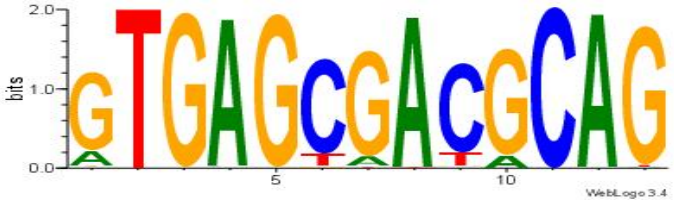

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.105849

Alignment:

```
TTTCTTTGACTRG
-TAGTTTGCTGA-
```

Original motif Consensus sequence: CKAGTCAAAGAAA

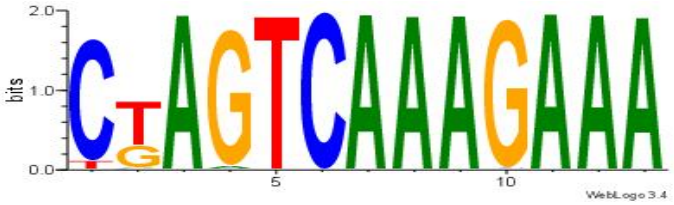

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

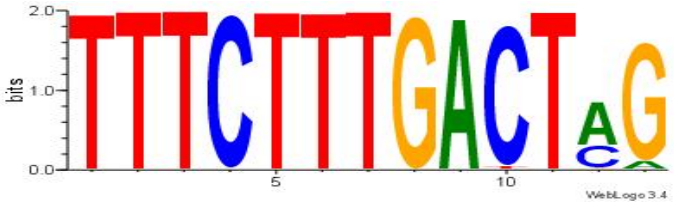

Dataset #:	1
Motif ID:	82

Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.106068

Alignment:

```
GCTTAGCACCYGGGCCAGC
------TCAGCAAACTA--
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

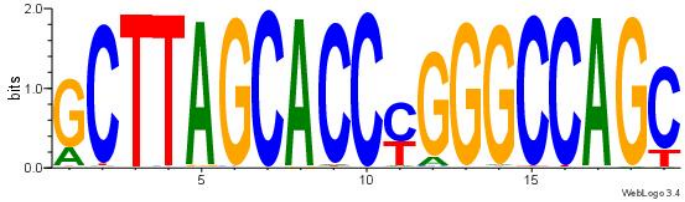

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

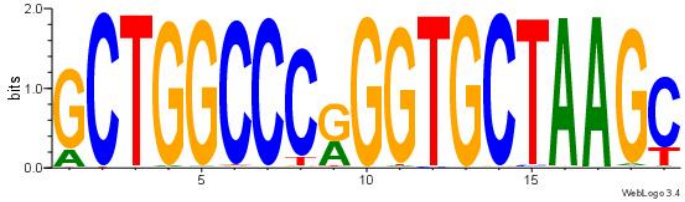

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.106399

Alignment:
GAAAGGGAACTCCCTGACCC
------TAGTTTGCTGA---

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

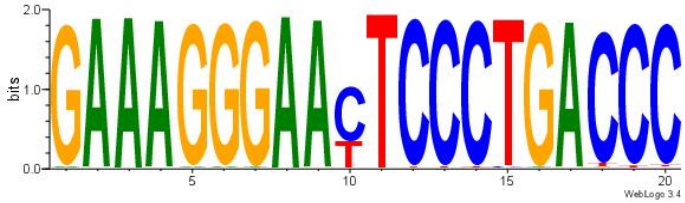

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

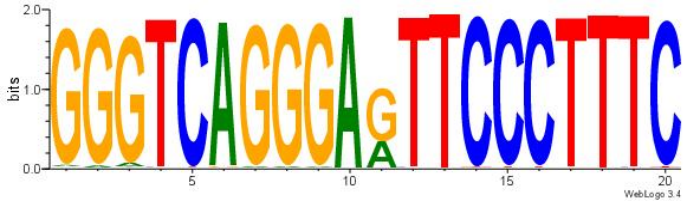

Dataset #:	1
Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.106588

Alignment:
ATTGCTAGCACA
-TAGTTTGCTGA

Original motif Consensus sequence: ATTGCTAGCACA

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

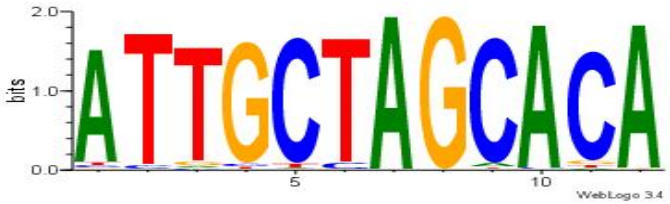

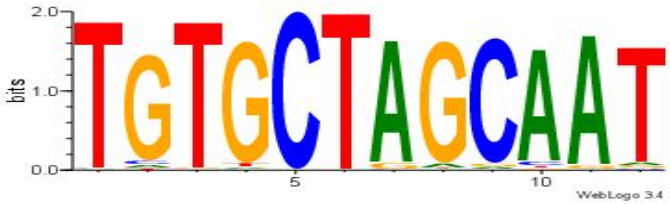

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.106685

Alignment:

```
TGGGTTCYTGGTC
TAGTTTGCTGA--
```

Original motif Consensus sequence: GACCAMGAACCCA

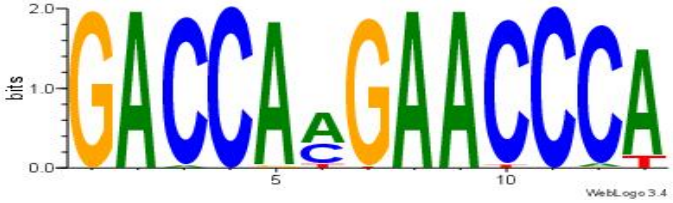

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

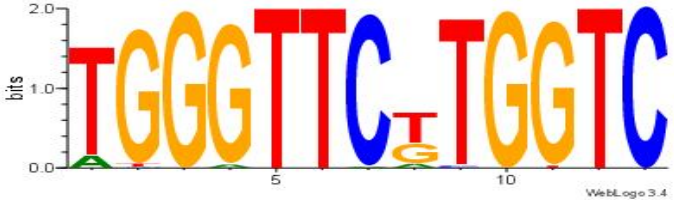

Dataset #:	1
Motif ID:	86

Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.107596

Alignment:

```
VMATTTAKTGAGCACCTACT
---------TAGTTTGCTGA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

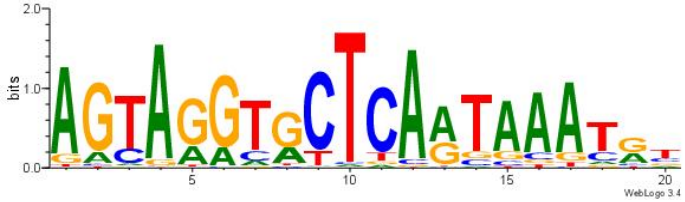

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

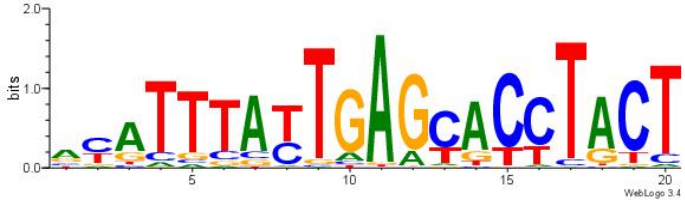

Dataset #: 1 Motif ID: 159 Motif name: Motif 159

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

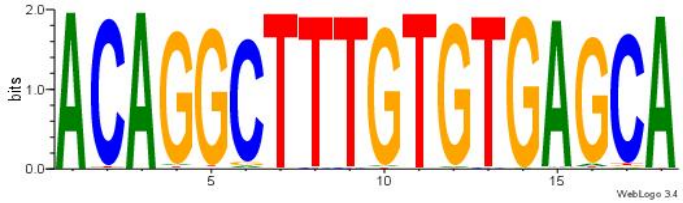

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

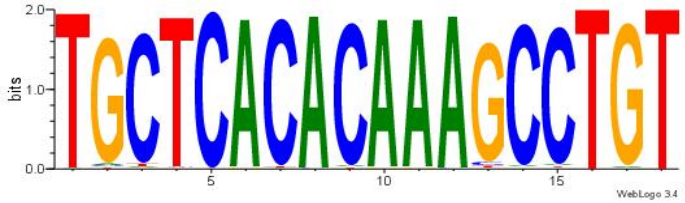

Best Matches for Motif ID 159 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.104283

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

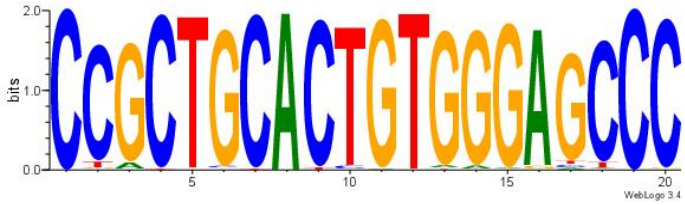

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

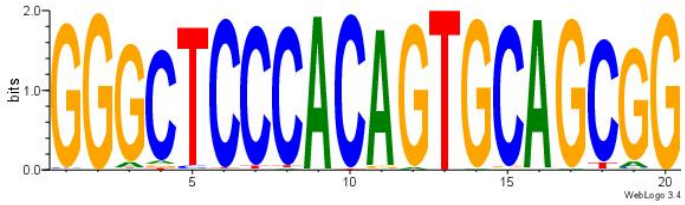

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.109531

Alignment:

```
AAGAGGTTTAATTGRCTCA
-ACAGGCTTTGTGTGAGCA
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

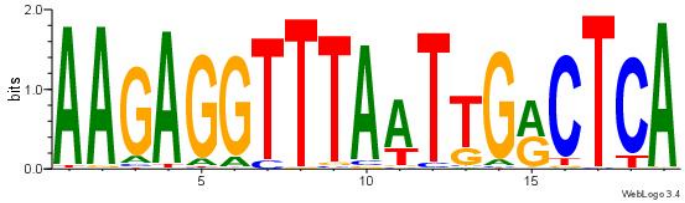

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

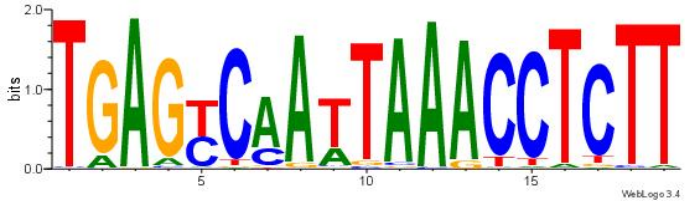

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.111806

Alignment:

```
TAGTGGTGATTTSTGAGAT
-ACAGGCTTTGTGTGAGCA
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

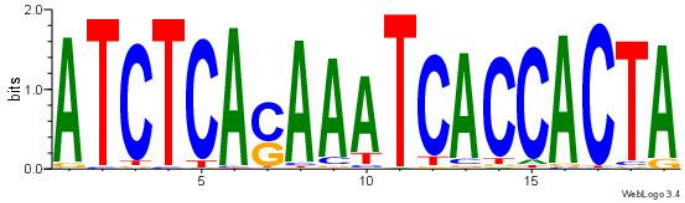

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

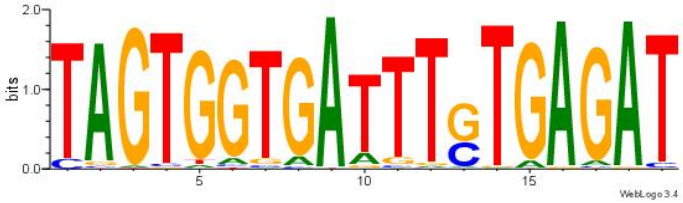

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.114641

Alignment:

```
ATGATCCAGCAATYCCACTH
-TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

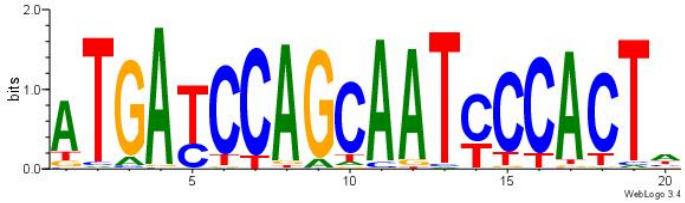

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

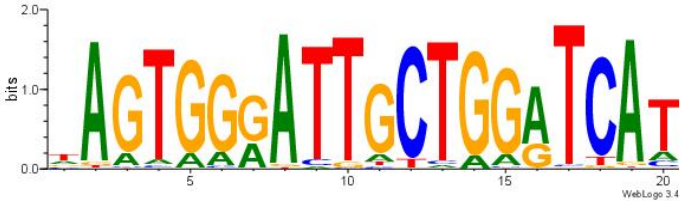

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.115994

Alignment:

```
GCCTCTCCCTCCACACCTCC
TGCTCACACAAAGCCTGT--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

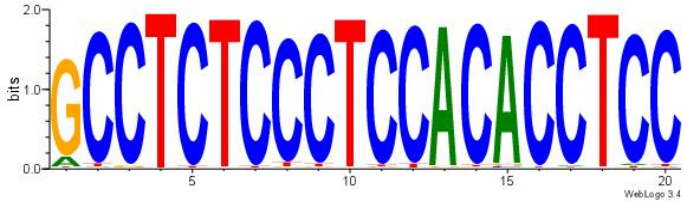

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

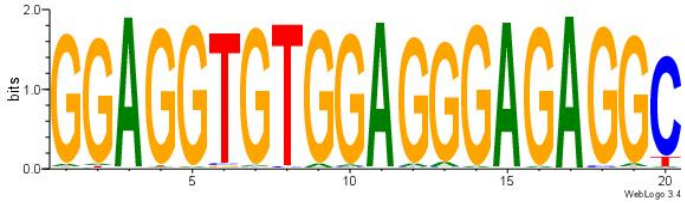

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 18
Similarity score: 0.117788

Alignment:
ACAGGCTGTCCCAGGATTC
ACAGGCTTTGTGTGAGCA-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

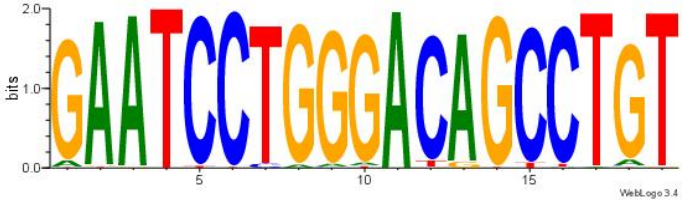

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

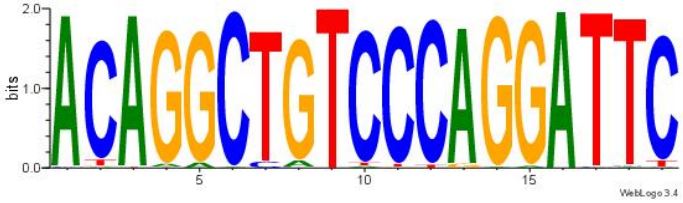

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.119491

Alignment:
ACACATCACAAAGCAGTTTC
TGCTCACACAAAGCCTGT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

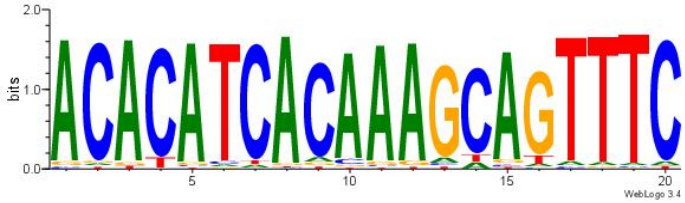

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

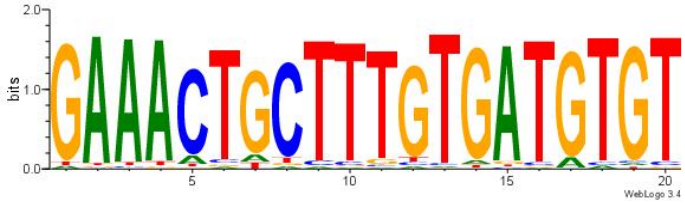

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.120981

Alignment:

```
TYTGTCMTTTTGTGACTGGC
--ACAGGCTTTGTGTGAGCA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

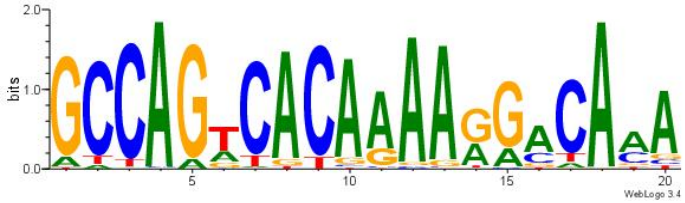

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

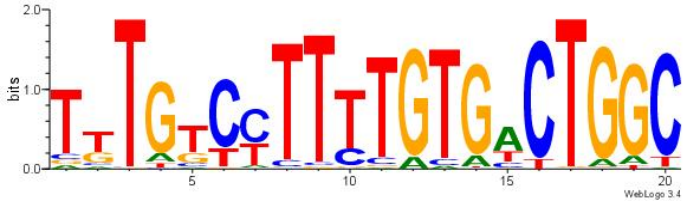

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.12105

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
ACAGGCTTTGTGTGAGCA--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

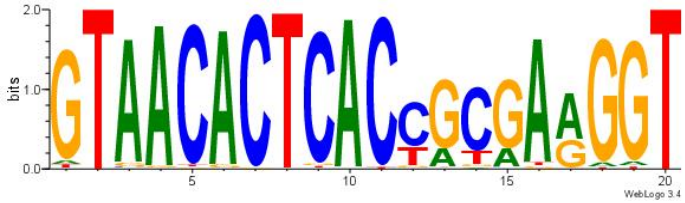

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

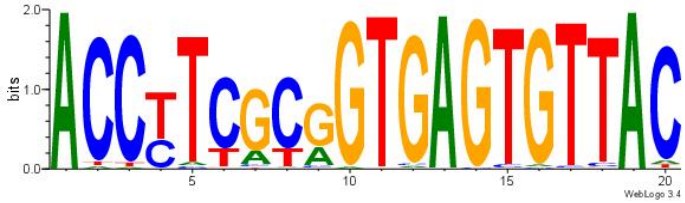

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 18
Similarity score: 0.124302

Alignment:
TAATTTTATGTGTCAACTTG
ACAGGCTTTGTGTGAGCA--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

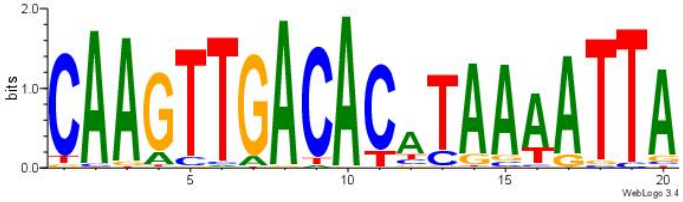

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

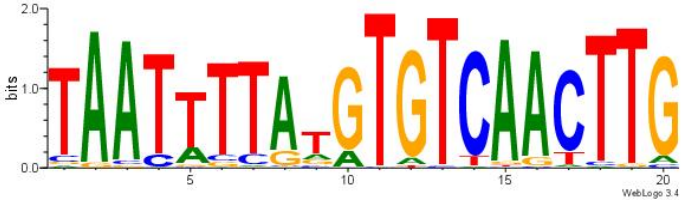

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.125451

Alignment:
GAAAGGGAACTCCCTGACCC
--ACAGGCTTTGTGTGAGCA

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

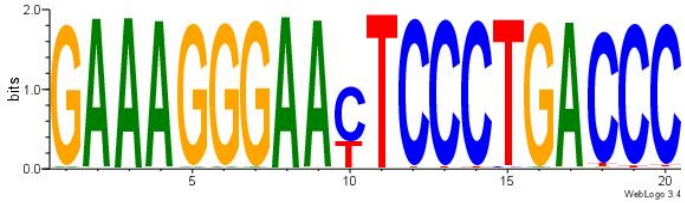

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

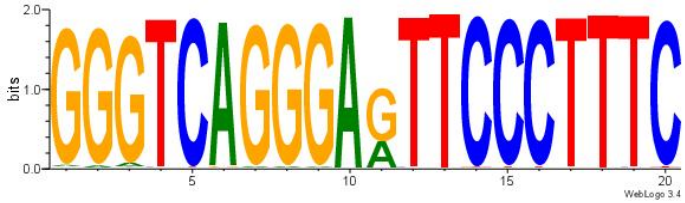

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.125822

Alignment:

```
CGTCGCTCACGCTGGGAGCT
ACAGGCTTTGTGTGAGCA--
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

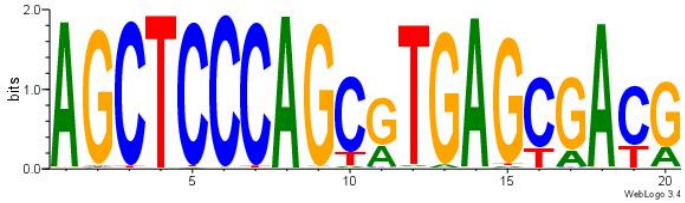

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

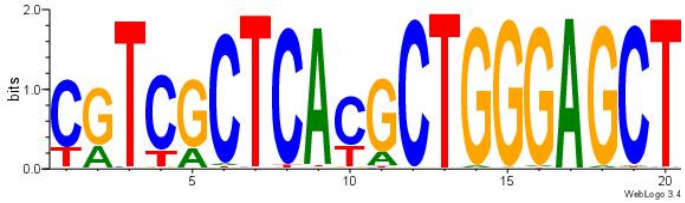

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.126449

Alignment:

```
CCCYAATACTGCGCTTTTC
TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

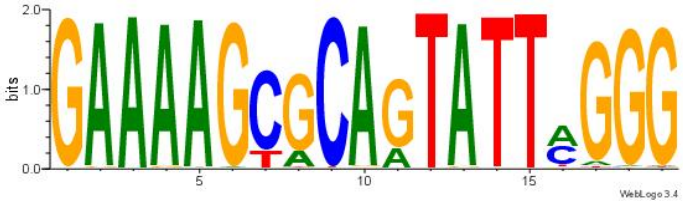

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

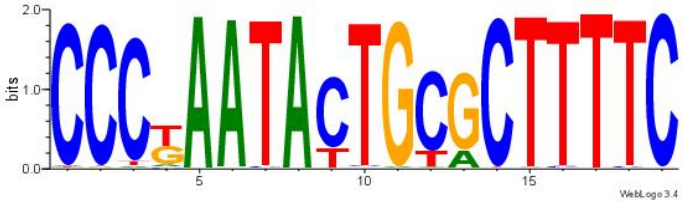

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 18
Similarity score: 0.126488

Alignment:
CAGGTGGTKTTTGGTTACAT
-ACAGGCTTTGTGTGAGCA-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

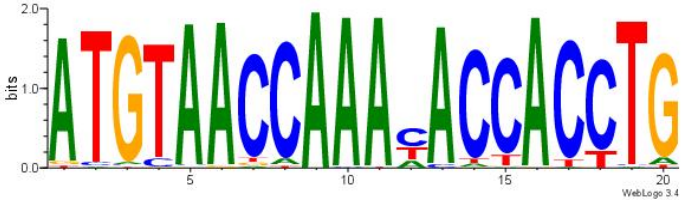

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

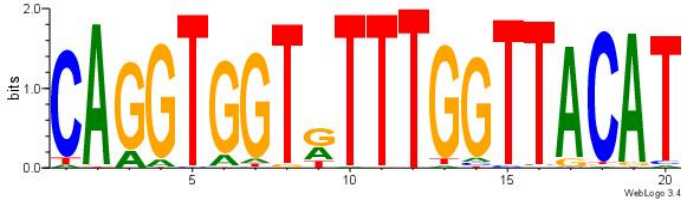

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.12674

Alignment:
AAAMAMMKMATGTTCTCACT
--ACAGGCTTTGTGTGAGCA

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

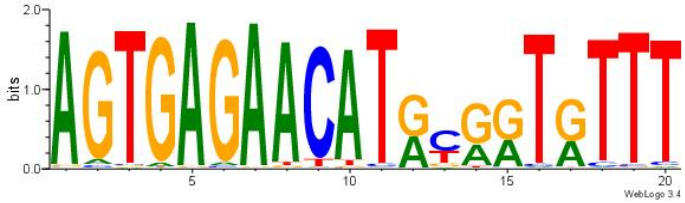

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

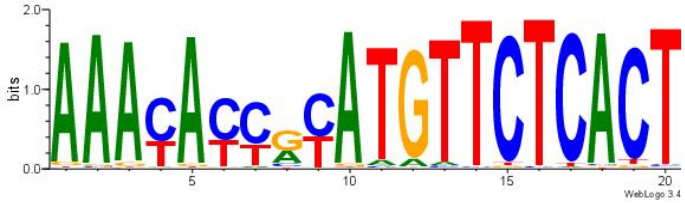

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.12678

Alignment:

```
TGGCTTCACCCAGTGGATCC
TGCTCACACAAAGCCTGT--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

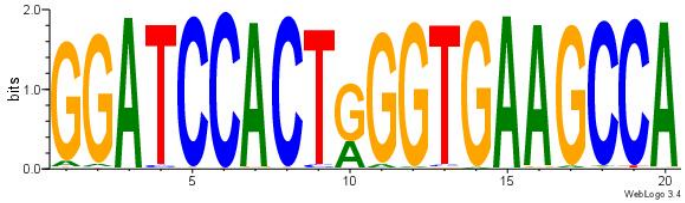

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

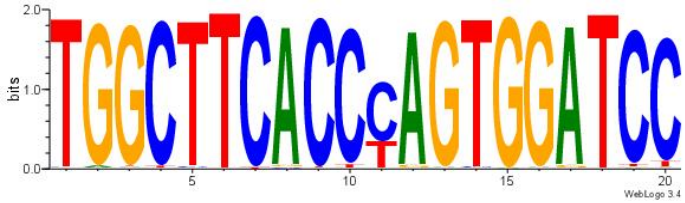

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.127043

Alignment:

```
CAAGCCTSKGCAATGGCAGG
ACAGGCTTTGTGTGAGCA--
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

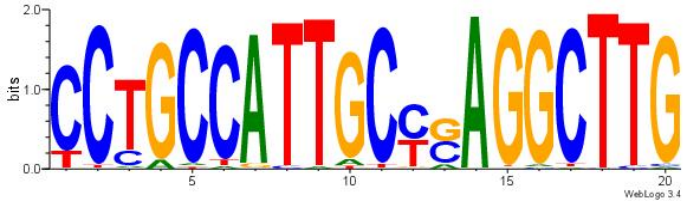

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

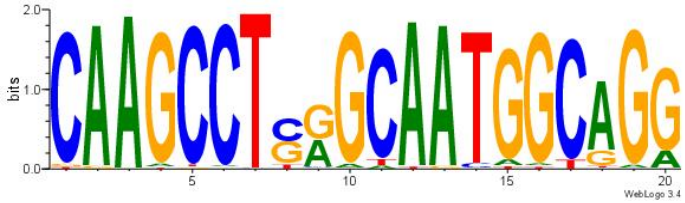

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 18
Similarity score: 0.127246

Alignment:
AGGAGRCMCTCTGCCTGGC
TGCTCACACAAAGCCTGT-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

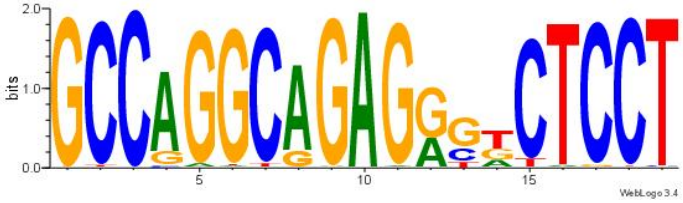

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

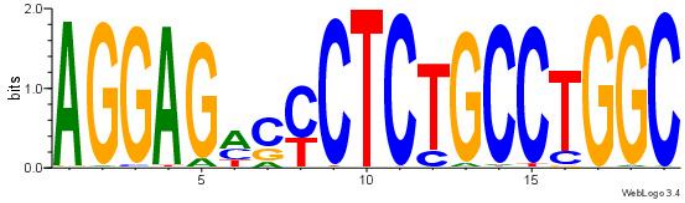

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.129795

Alignment:
CTGGGCTCCTGAGTCTGGTG
-TGCTCACACAAAGCCTGT-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

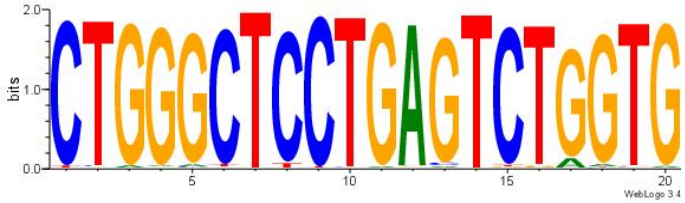

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

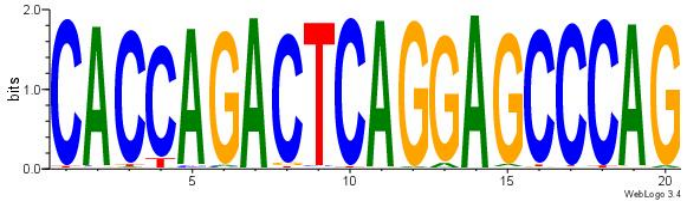

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.129839

Alignment:

```
AAGACCTTCCAGTGGGACAA
ACAGGCTTTGTGTGAGCA--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

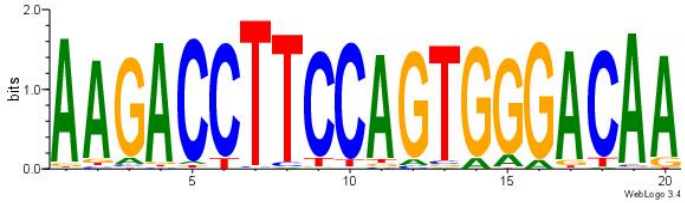

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

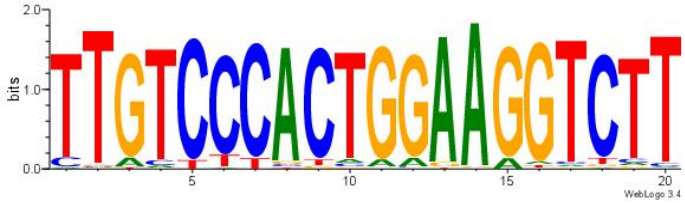

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.130891

Alignment:

```
TTMGTCCCAGAGGGGCACC
-TGCTCACACAAAGCCTGT
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

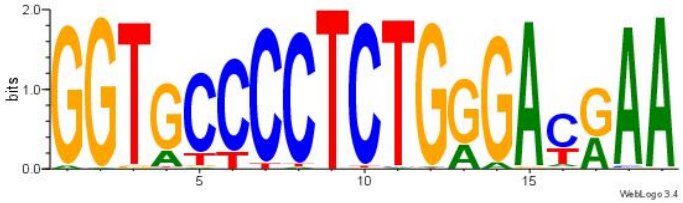

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

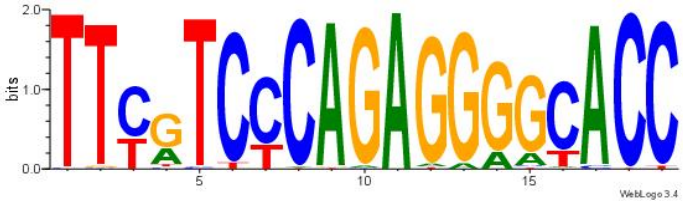

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 18
Similarity score: 0.132324

Alignment:
KCCGGGCCTTAGCTGCCTTC
-ACAGGCTTTGTGTGAGCA-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

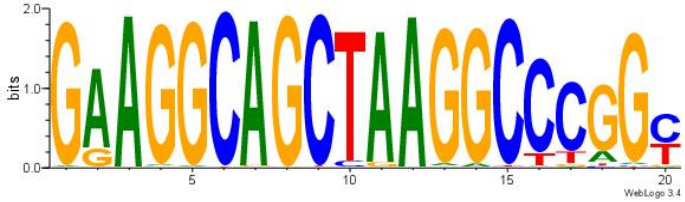

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

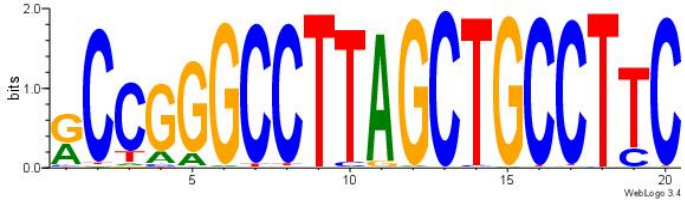

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.132512

Alignment:
GTCTCWAMAAAAAAWAMAAA
--TGCTCACACAAAGCCTGT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

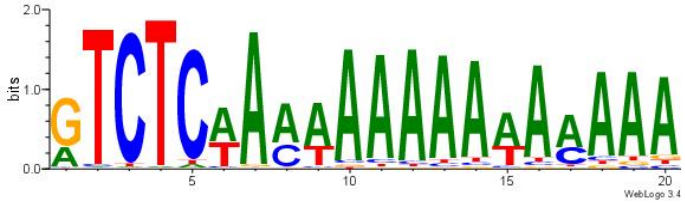

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

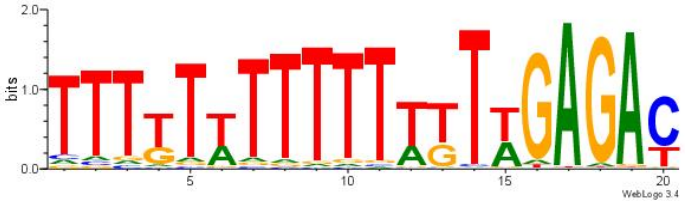

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.133219

Alignment:

```
MCCYGGCWSMGASGSTCCT
ACAGGCTTTGTGTGAGCA-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

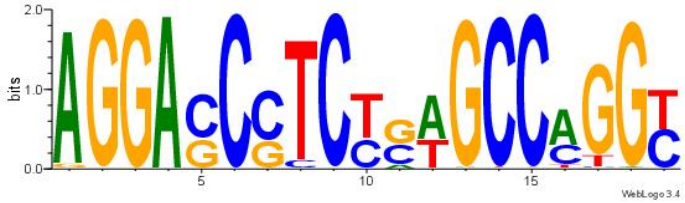

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

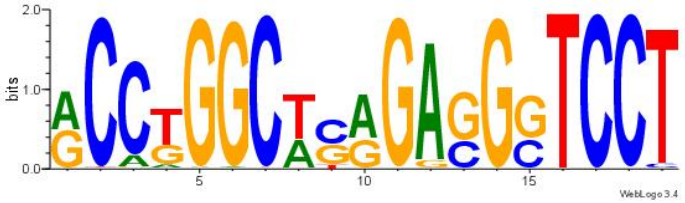

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.133317

Alignment:

```
KACGGGCTTAARAAACGGC
ACAGGCTTTGTGTGAGCA-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

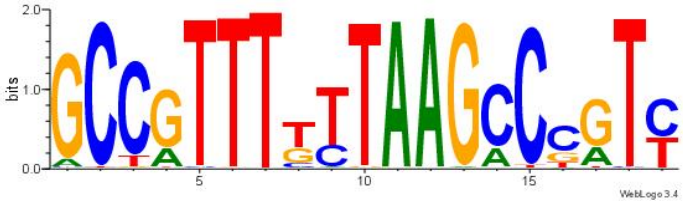

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

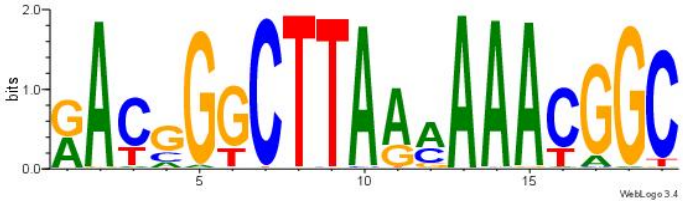

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 18
Similarity score: 0.134415

Alignment:
ACACACAYACACACACACA
TGCTCACACAAAGCCTGT-

Original motif Consensus sequence: ACACACAYACACACACACA

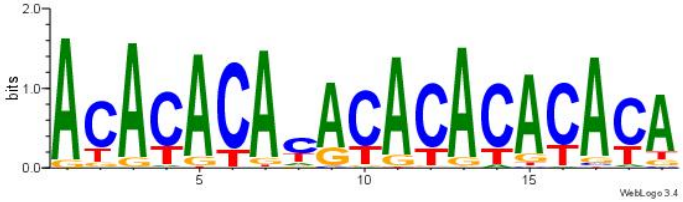

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

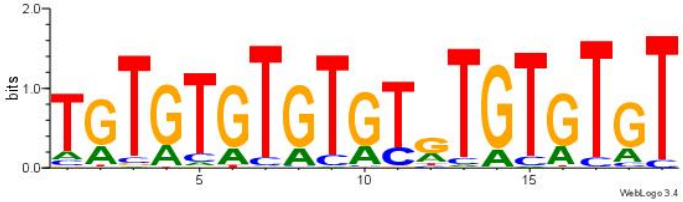

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.134857

Alignment:
AGAGCCAAATCATGARTGAA
ACAGGCTTTGTGTGAGCA--

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

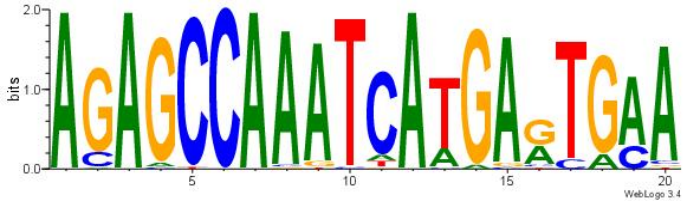

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

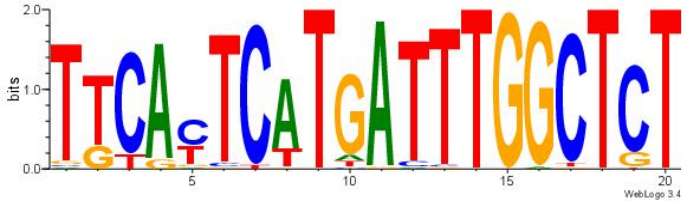

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.13616

Alignment:

```
TAMGACCTCAGGTCCTCAG
TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

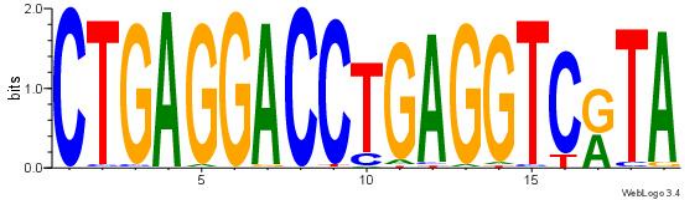

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

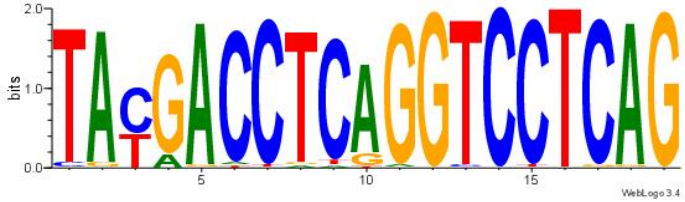

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.1372

Alignment:

```
GCTGTGTGACCTTGGGCAAG
ACAGGCTTTGTGTGAGCA--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

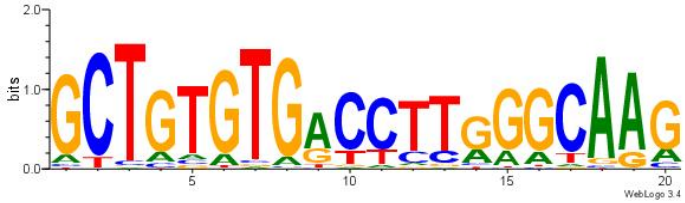

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

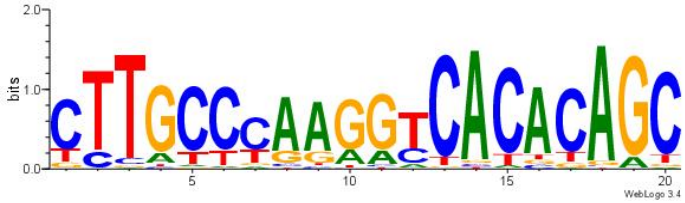

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.137268

Alignment:
GCAGCAMTATTCACAATAG
-ACAGGCTTTGTGTGAGCA

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

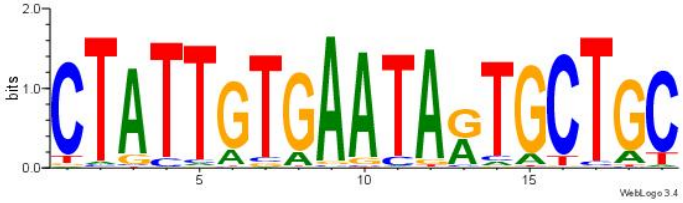

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

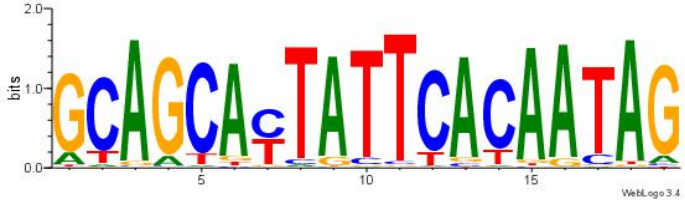

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.137429

Alignment:
TCTCTCTCTCTCTCTCTCTC
-TGCTCACACAAAGCCTGT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

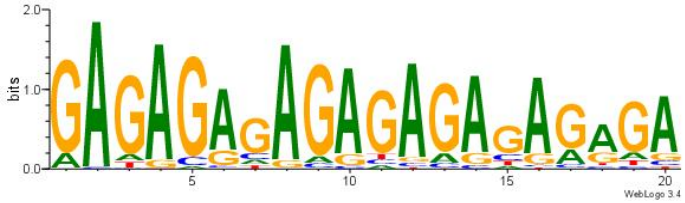

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

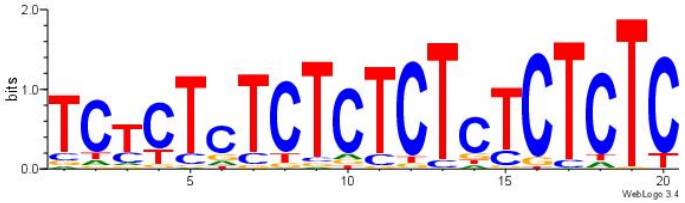

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.138106

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--ACAGGCTTTGTGTGAGCA
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

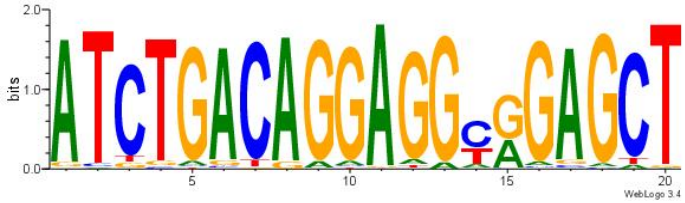

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

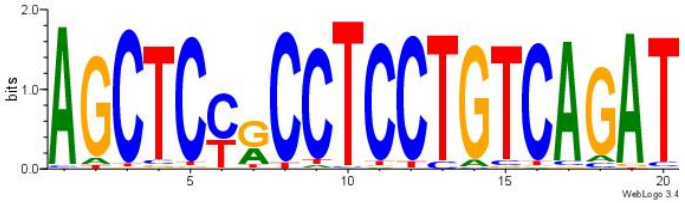

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.139167

Alignment:

```
TGGAGAACCTTTATGTCTAG
-ACAGGCTTTGTGTGAGCA-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

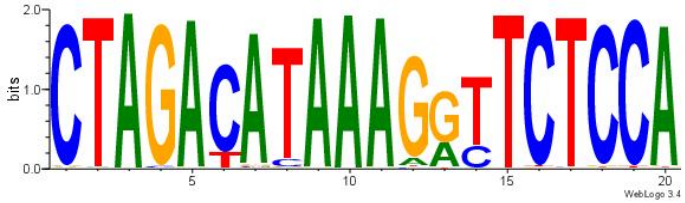

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

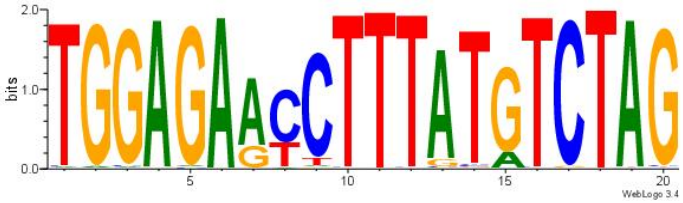

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 18
Similarity score: 0.139329

Alignment:
TCKMGCCACTGCACTCCAGC
--TGCTCACACAAAGCCTGT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

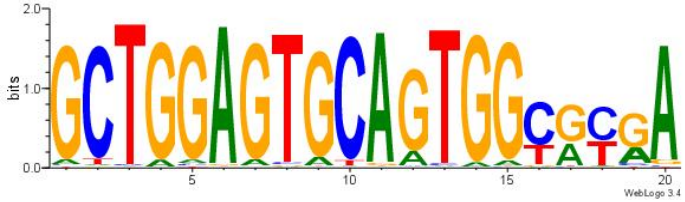

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

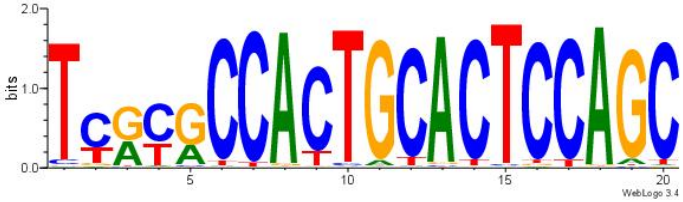

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.139378

Alignment:
ATGGCCTATGACYGSTTTG
ACAGGCTTTGTGTGAGCA-

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

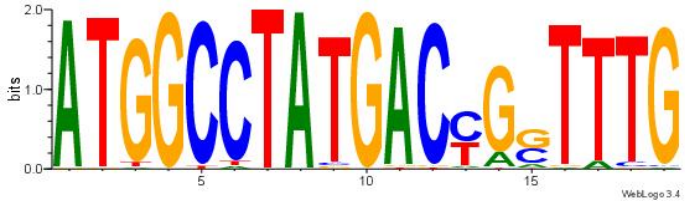

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

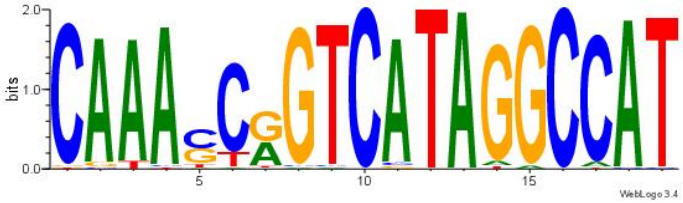

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.139867

Alignment:

```
CTGGGCRACAGAGYRAGACY
--TGCTCACACAAAGCCTGT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

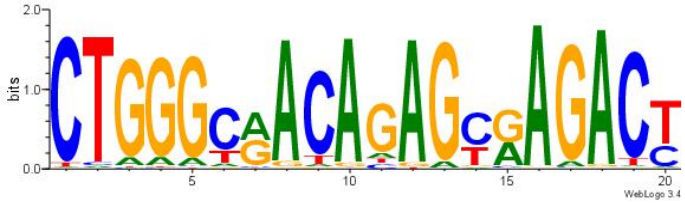

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

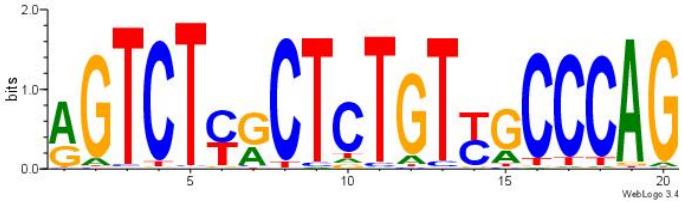

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.140156

Alignment:

```
CAGCTACTCKTATACCCTTG
-TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

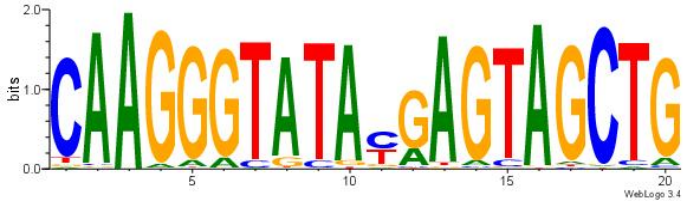

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

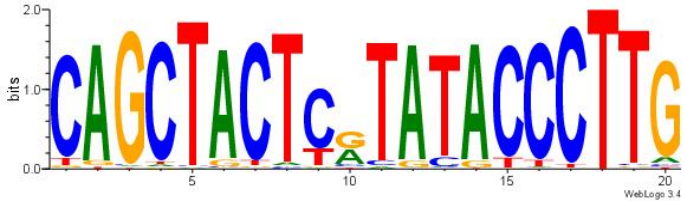

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 18
Similarity score: 0.140915

Alignment:
GTKTMTATMTACCACATTTT
-TGCTCACACAAAGCCTGT-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

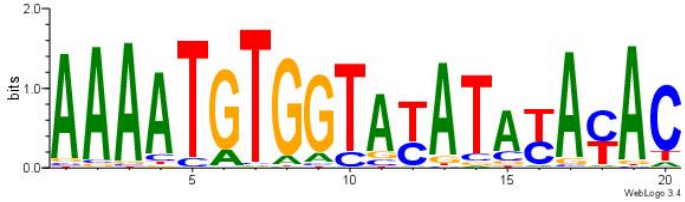

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

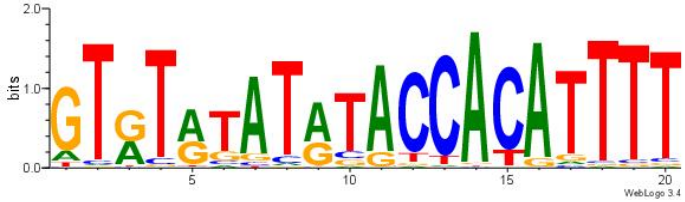

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.141189

Alignment:
ATTAGCYRGGCRTGGTGGC
ACAGGCTTTGTGTGAGCA-

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

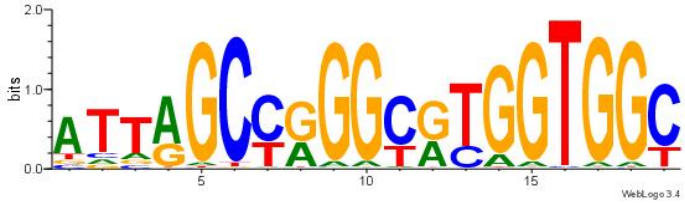

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

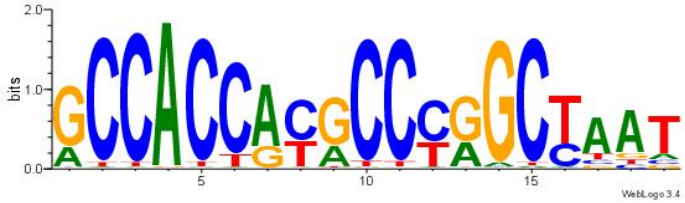

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.141597

Alignment:

```
AGTGACCCGATTTTCCAGGT
--TGCTCACACAAAGCCTGT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

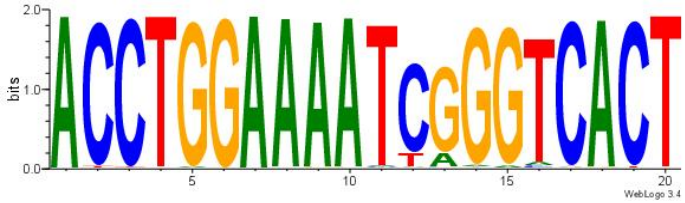

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

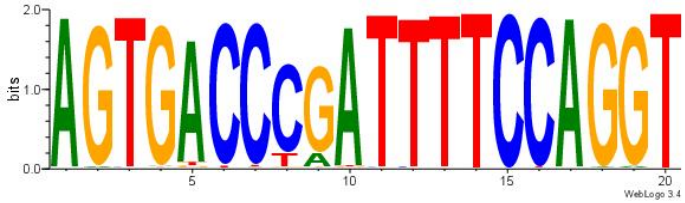

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.141709

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
TGCTCACACAAAGCCTGT--
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

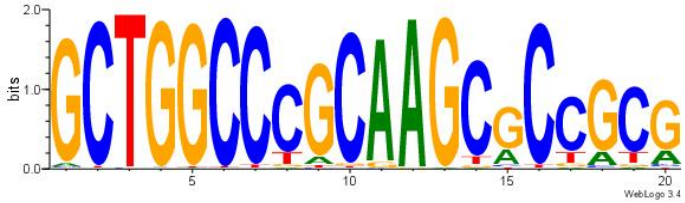

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

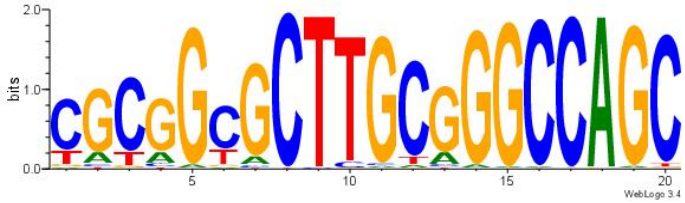

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 18
Similarity score: 0.141868

Alignment:
GCCKCCCCGTCCGGGAGGGA
-ACAGGCTTTGTGTGAGCA-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

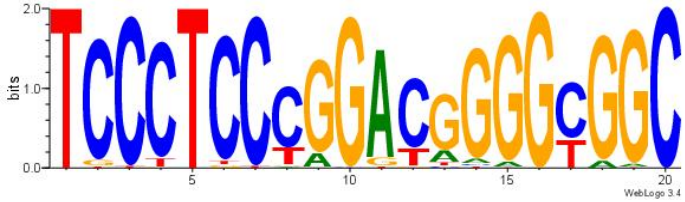

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

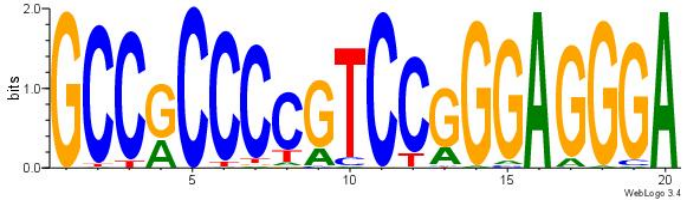

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.142193

Alignment:
CAACATGGATGRARCTGGAG
--ACAGGCTTTGTGTGAGCA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

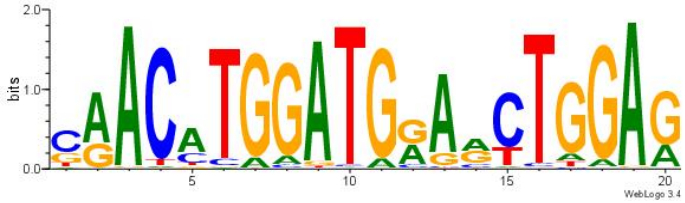

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

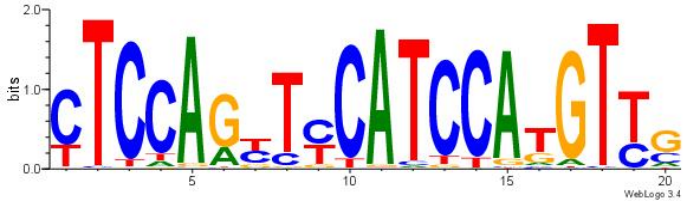

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.142414

Alignment:

```
ATGGAATAYTATTCAGCCAT
ACAGGCTTTGTGTGAGCA--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

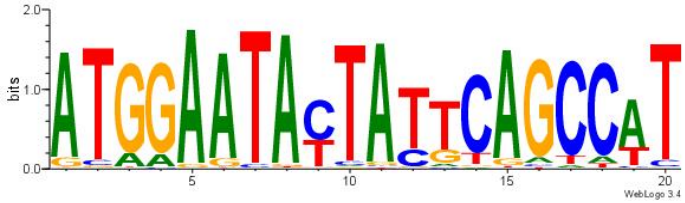

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

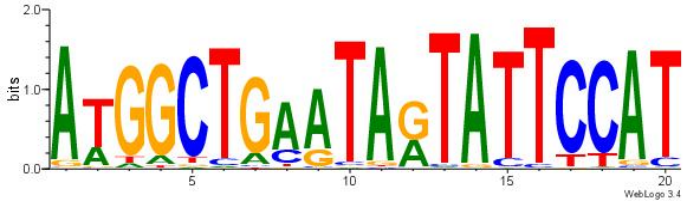

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.142428

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

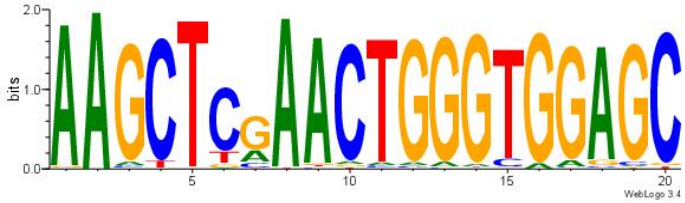

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

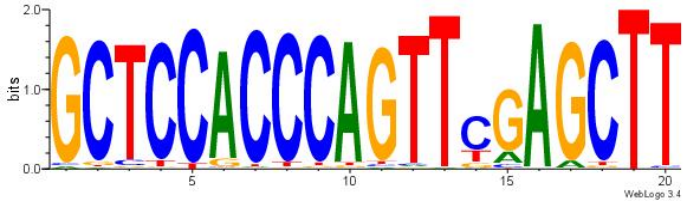

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 18
Similarity score: 0.142456

Alignment:
AAGCAGGGCGAGGCATTGCC
--ACAGGCTTTGTGTGAGCA

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

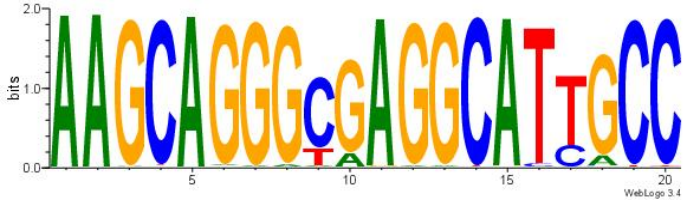

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

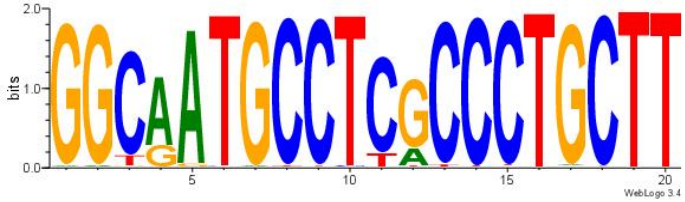

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.142711

Alignment:
GACAGGAGATTAACACTGAG
-TGCTCACACAAAGCCTGT-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

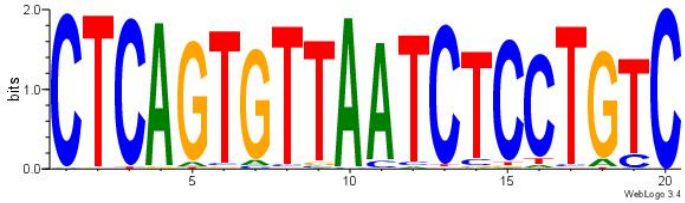

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

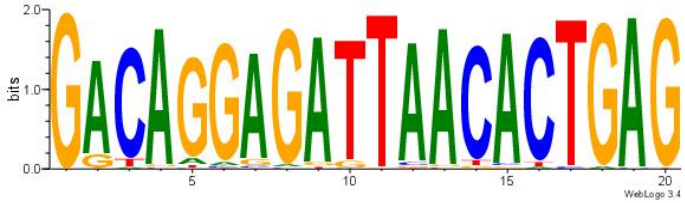

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.142757

Alignment:

```
AGTAGGTGCTCARTAAATRB
-ACAGGCTTTGTGTGAGCA-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

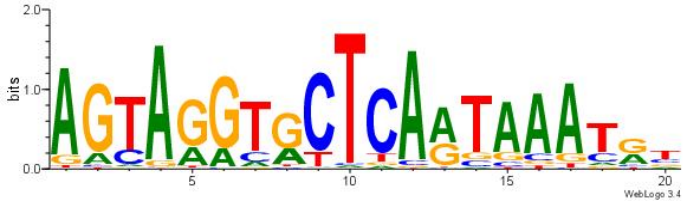

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

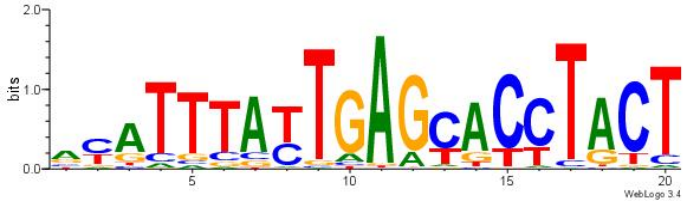

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.142923

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-TGCTCACACAAAGCCTGT-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

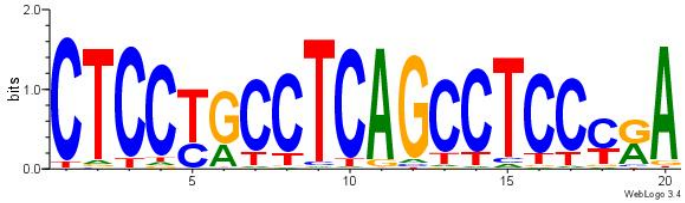

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

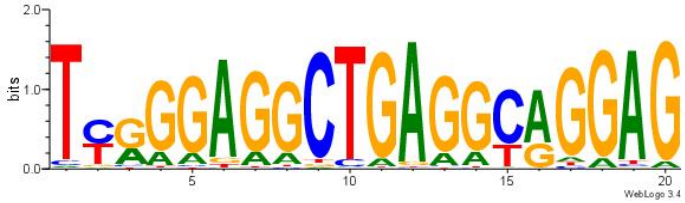

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.143059

Alignment:
ACAAGGCAAGTCCCTTCY
ACAGGCTTTGTGTGAGCA

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

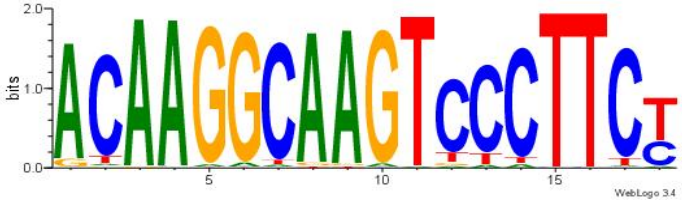

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

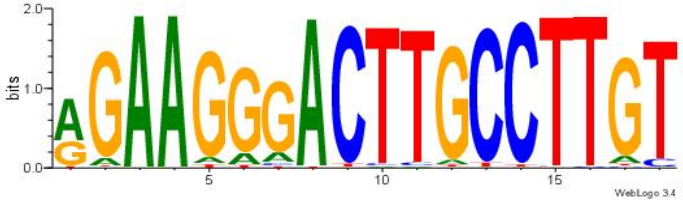

Dataset #: 1 Motif ID: 160 Motif name: Motif 160

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

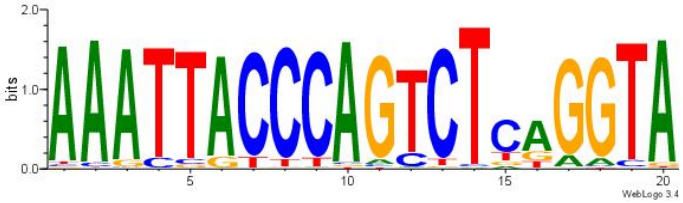

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

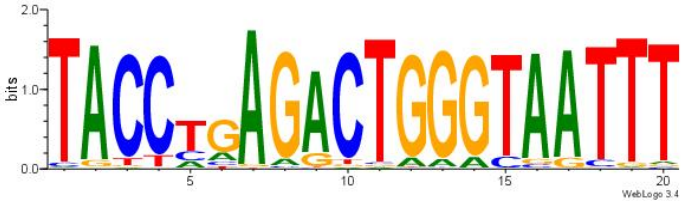

Best Matches for Motif ID 160 (Highest to Lowest)

Dataset #: 1
Motif ID: 321
Motif name: Motif 321

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.115677

Alignment:

```
AAGCTCGAACTGGGTGGAGC
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

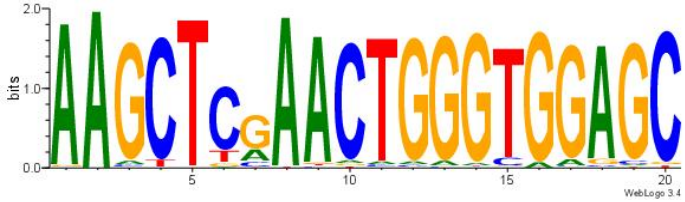

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

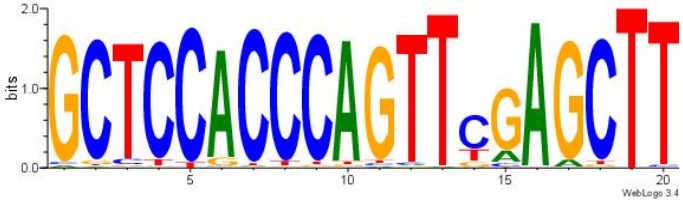

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123051

Alignment:
GTTATTAATTGGCCTAATTT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

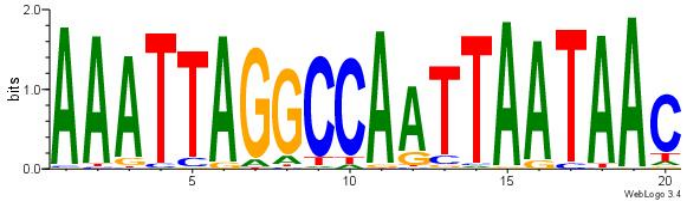

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12689

Alignment:
ATGTAACCAAAYACCACCTG
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

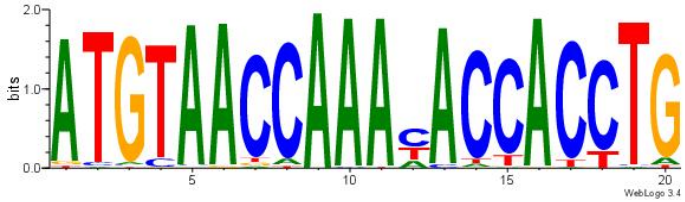

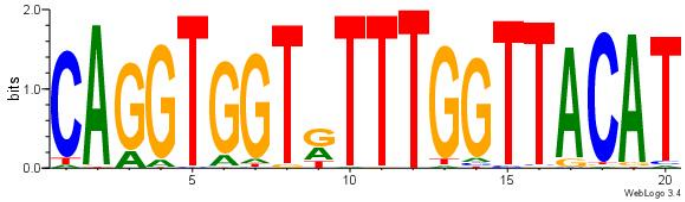

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129148

Alignment:
ATAGGAATGCTTGTGATTTT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

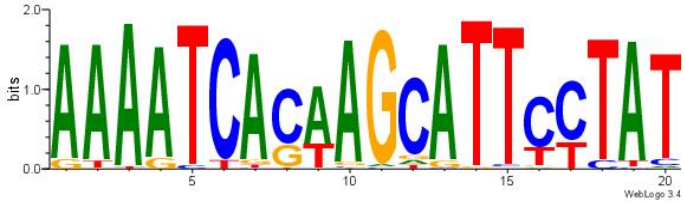

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

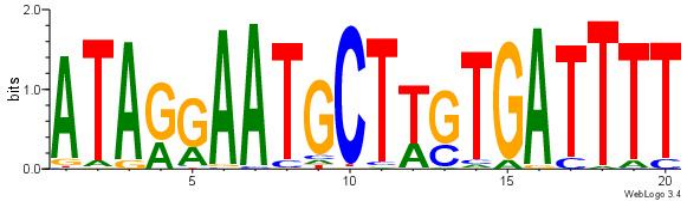

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129326

Alignment:

```
TAATTTTATGTGTCAACTTG
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

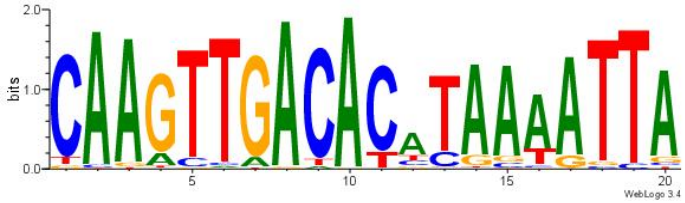

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

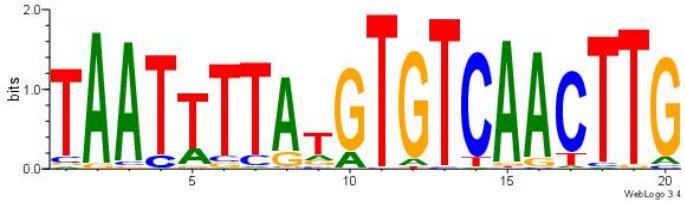

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131216

Alignment:
AACAACASACACTGGGGCCT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

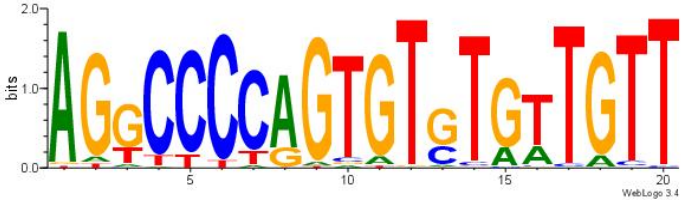

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

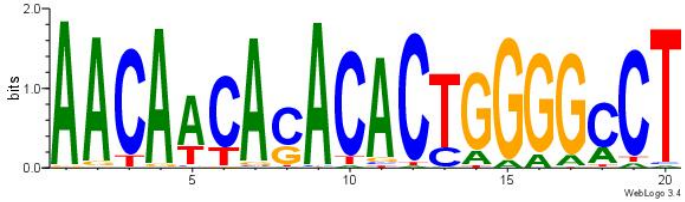

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133094

Alignment:
ATTGATMKCCAGGGTTGATT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

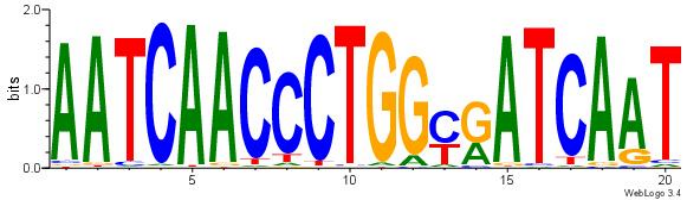

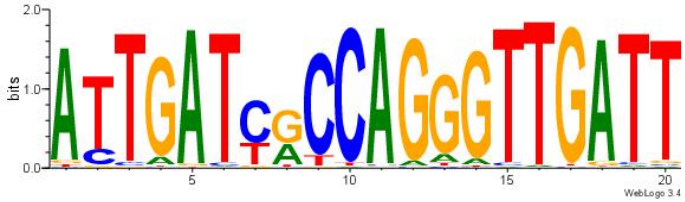

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136918

Alignment:

```
AGTGAGAACATRYRRTRTTT
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

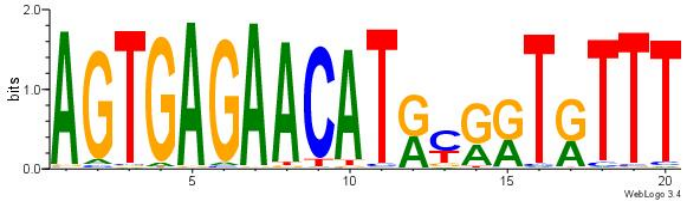

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

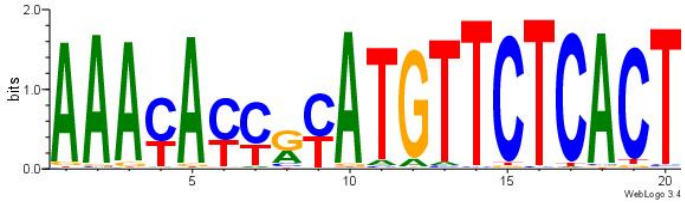

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137987

Alignment:

GGAGCCGGCTCCCTCAGCTT

AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

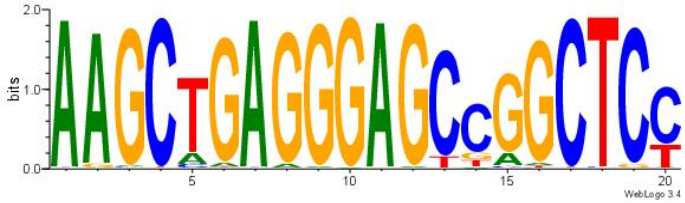

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

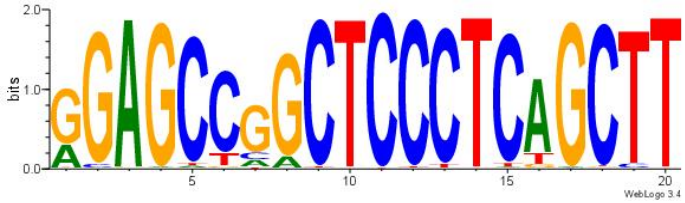

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138852

Alignment:
GTGTCKGGAGTTTGTTCCTT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

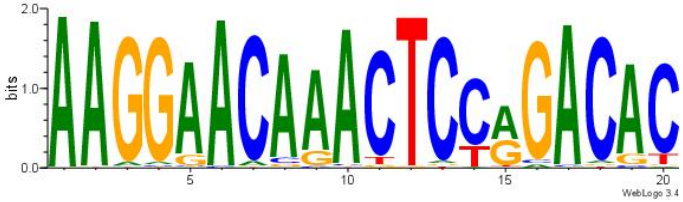

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

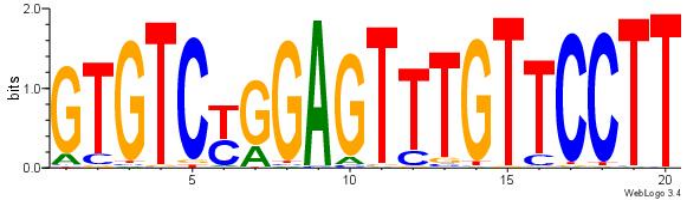

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.13889

Alignment:
CCCATGCAAGTCYRAAATCC
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

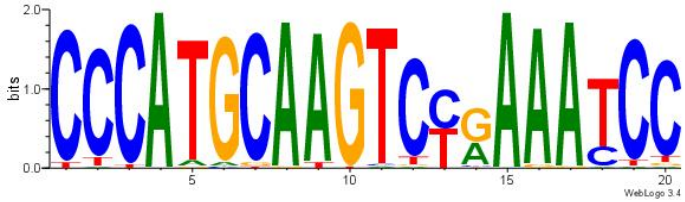

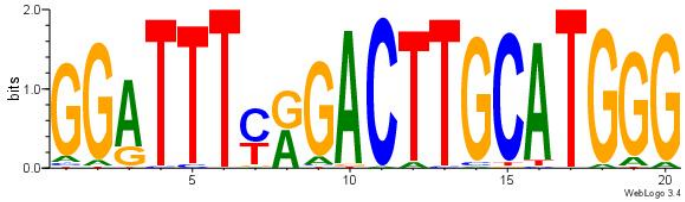

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139745

Alignment:

```
CACCAGACTCAGGAGCCCAG
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

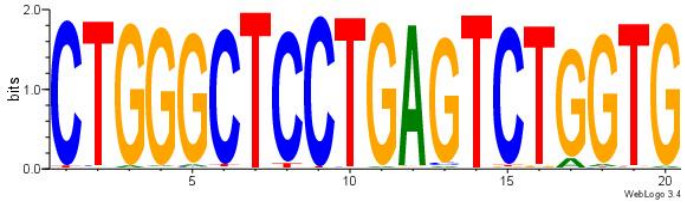

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

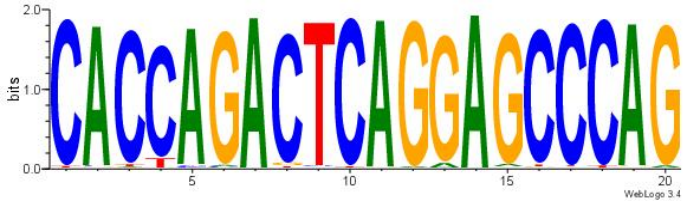

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140705

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

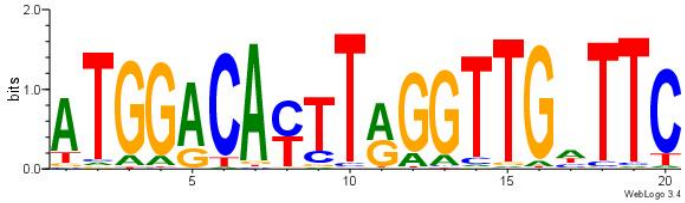

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

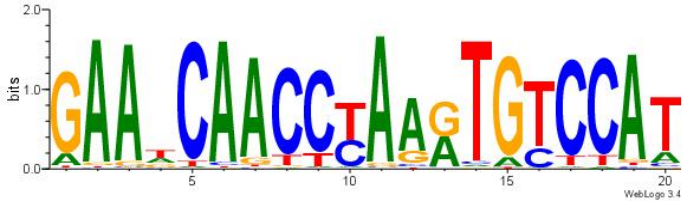

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140826

Alignment:
GTAACACTCACCGCGARGGT
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

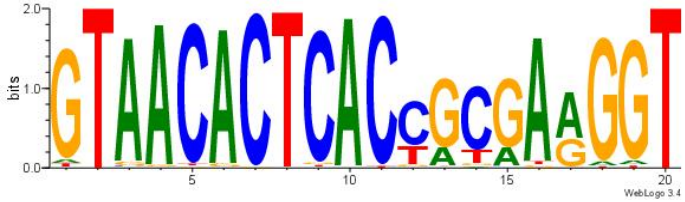

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

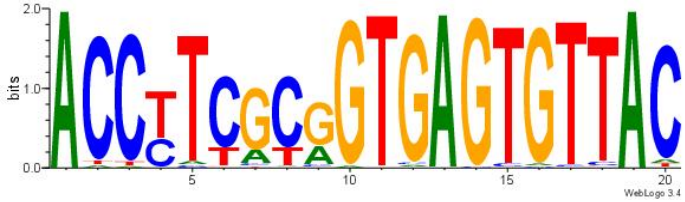

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141097

Alignment:
AGTGACCCGATTTTCCAGGT
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

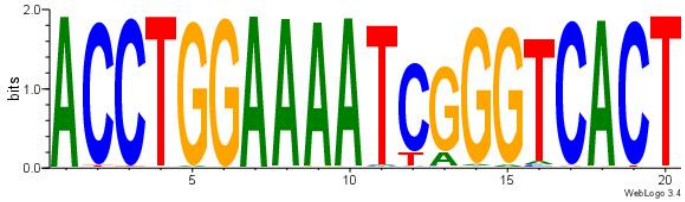

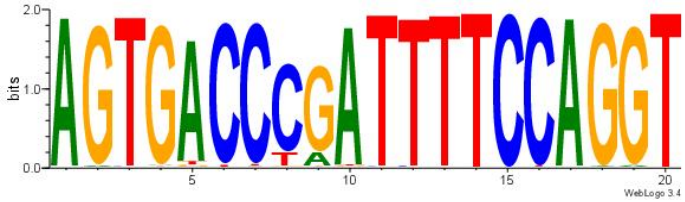

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141966

Alignment:
GAGAGAGAGAGAGAGAGAGA
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

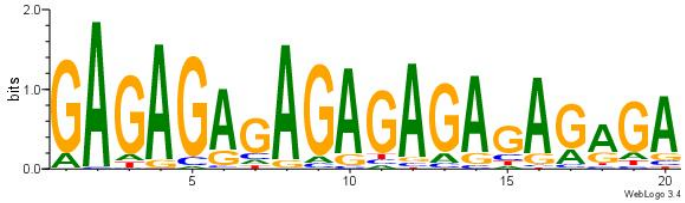

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

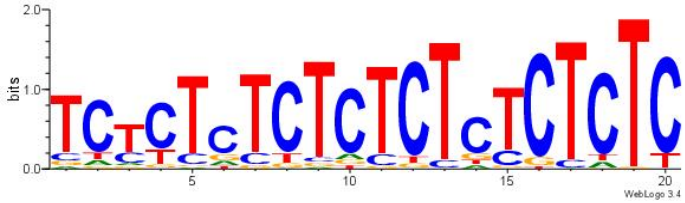

Dataset #:	1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142739

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

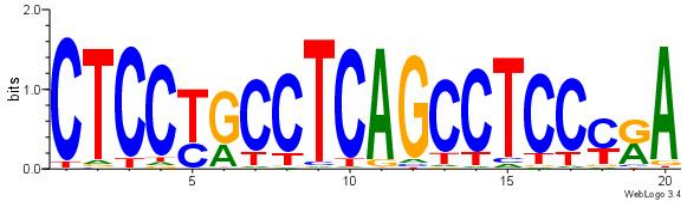

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

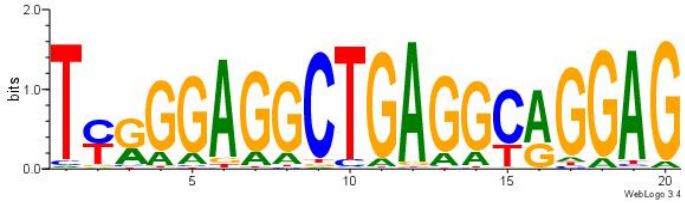

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.143329

Alignment:
TAGATAATAGCTCCAGCTTT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

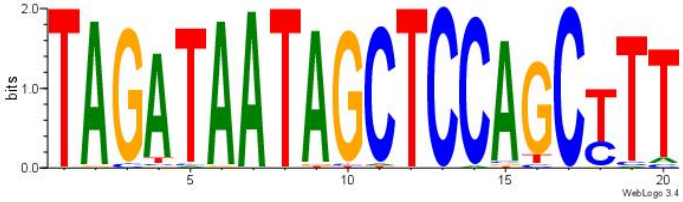

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

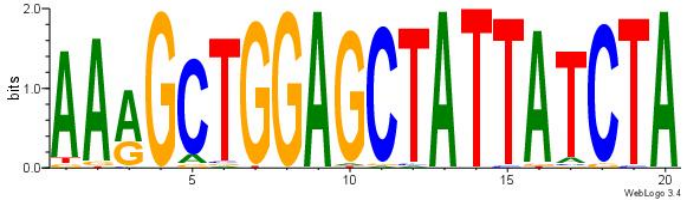

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144724

Alignment:
CAAGGGTATAYGAGTAGCTG
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

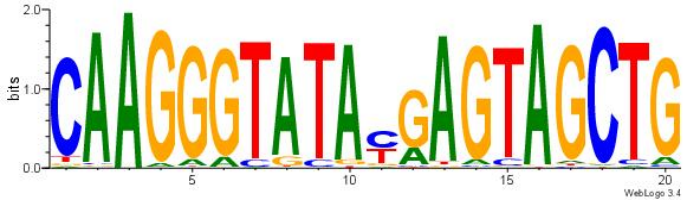

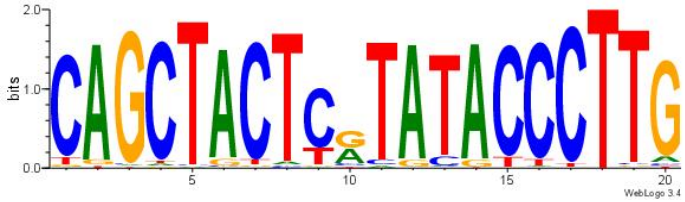

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145386

Alignment:

```
GCACATGTAYCCYAGAACTT
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

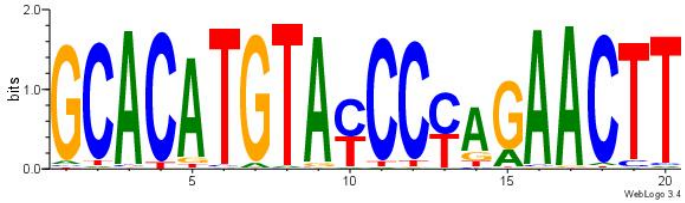

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

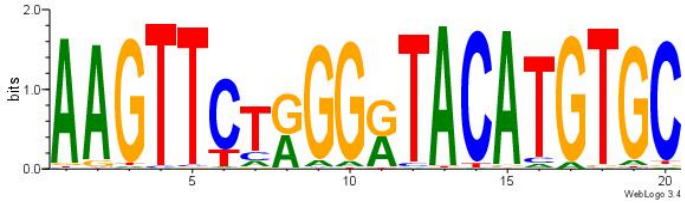

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145693

Alignment:

```
AAAAGTCCACAGTCCAAAGT
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

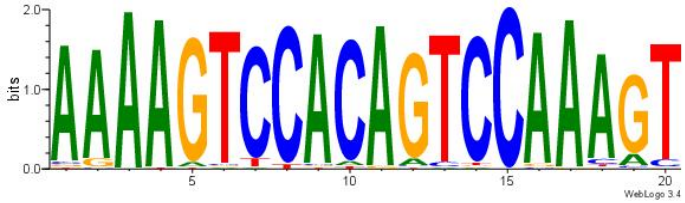

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

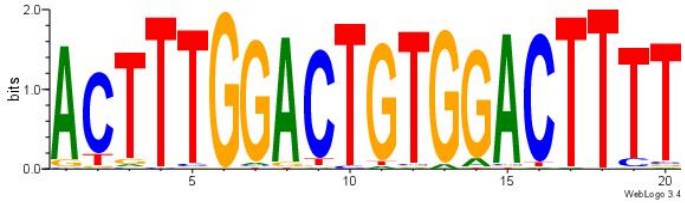

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.146039

Alignment:
TAAAAGACTACAWATTGGGT
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

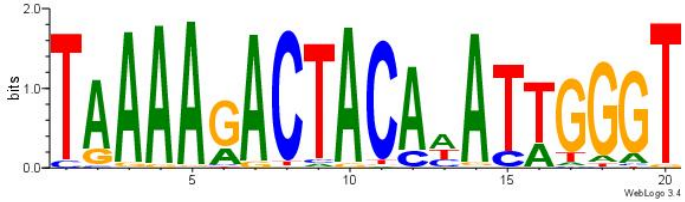

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

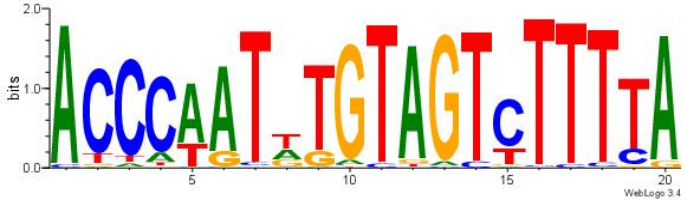

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148045

Alignment:
GCCKGGMKCMGTGGCTCAKG
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

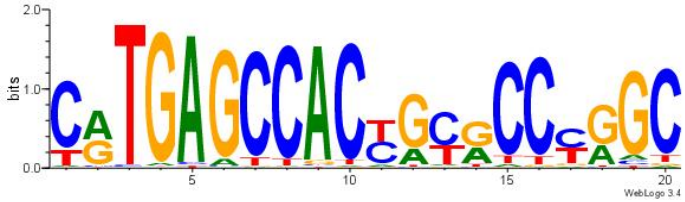

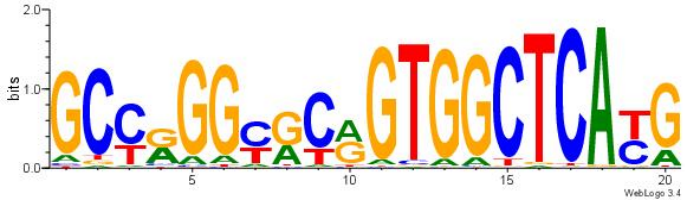

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148129

Alignment:

```
AAAATGTGGTAYATAYAYAC
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

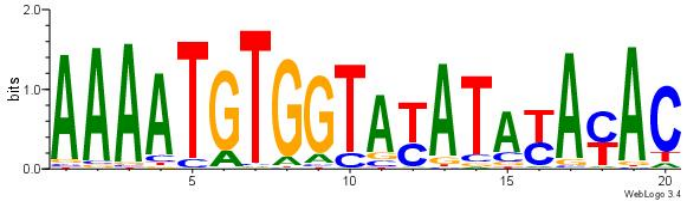

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

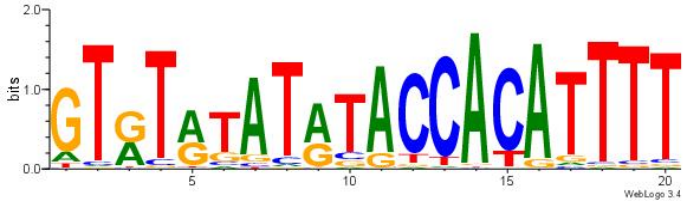

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14876

Alignment:
GAATACCTCCTGAAGGACCT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

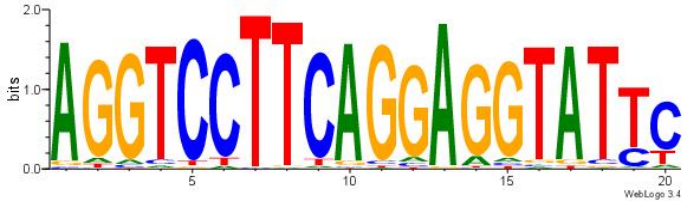

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

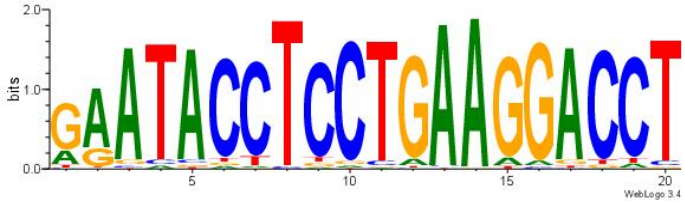

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149456

Alignment:
GACAGGAGATTAACACTGAG
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

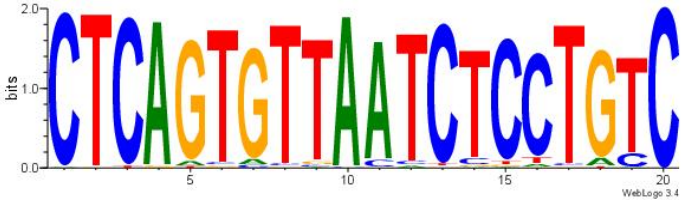

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

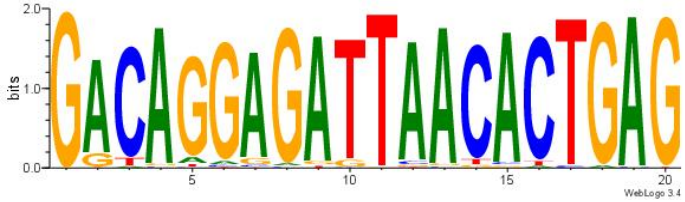

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150005

Alignment:
AGCCYCTGGYAACCAYYAWT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

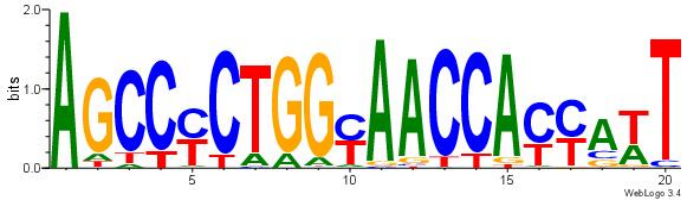

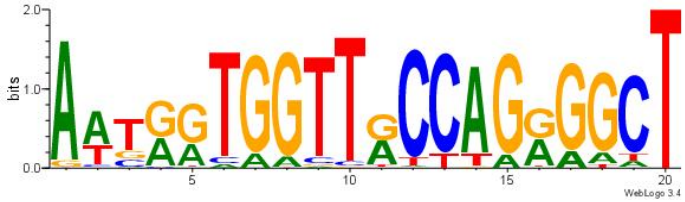

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1506

Alignment:

```
GGATCCACTGGGTGAAGCCA
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

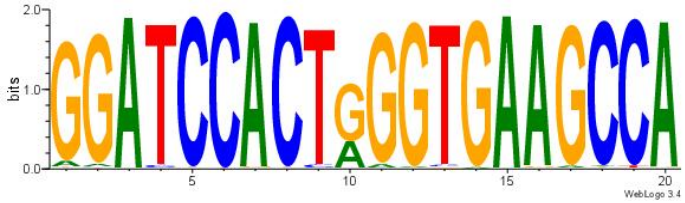

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

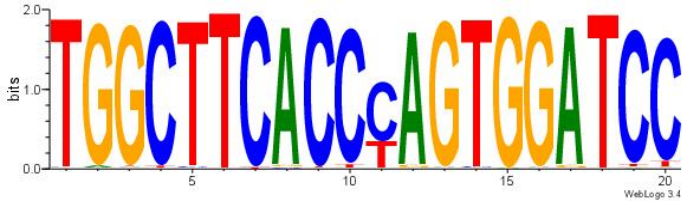

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15141

Alignment:

```
CTCCAGKTMCATCCATGTTG
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

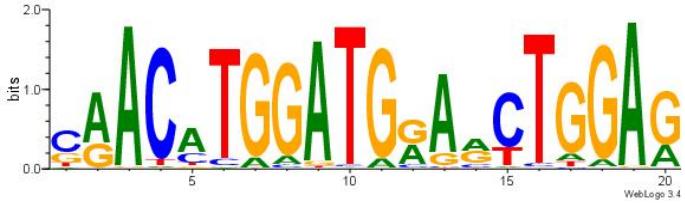

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

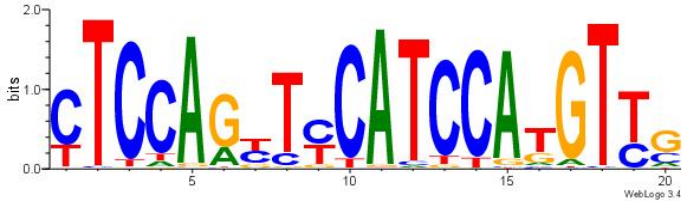

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151458

Alignment:
AATGAKATCATGTCYTTTGC
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

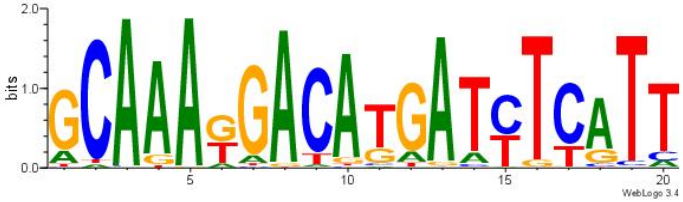

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

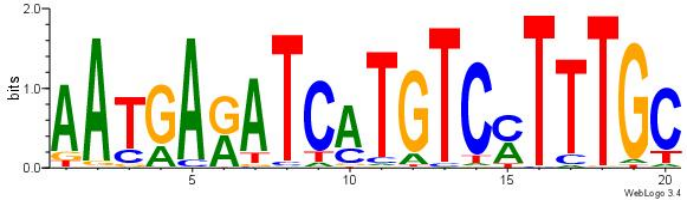

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15179

Alignment:
ACACATCACAAAGCAGTTTC
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

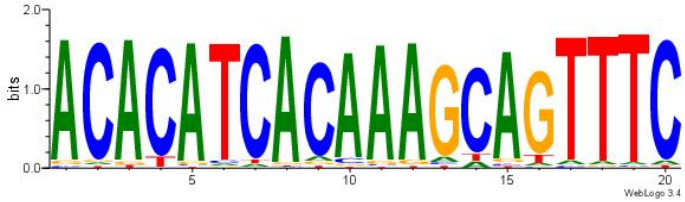

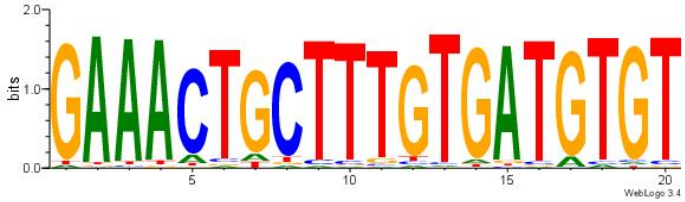

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153225

Alignment:

```
VMATTTAKTGAGCACCTACT
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

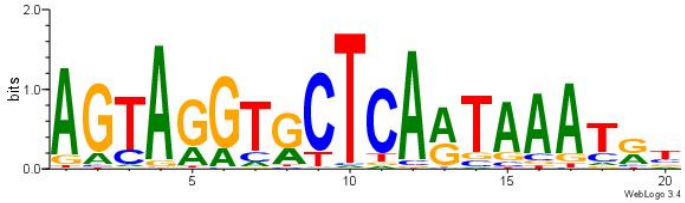

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

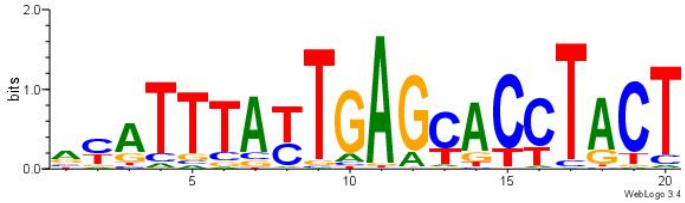

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153251

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

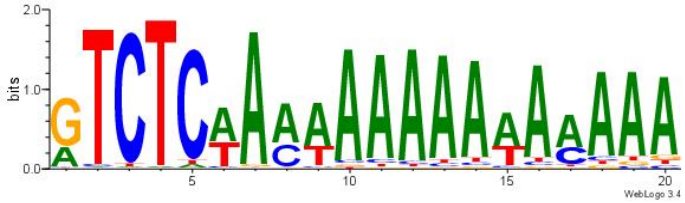

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

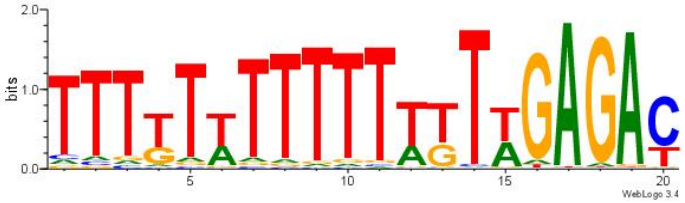

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153663

Alignment:
ATGTGGAGGTGGAAGACAGT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

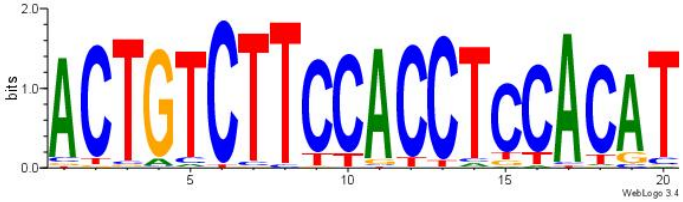

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

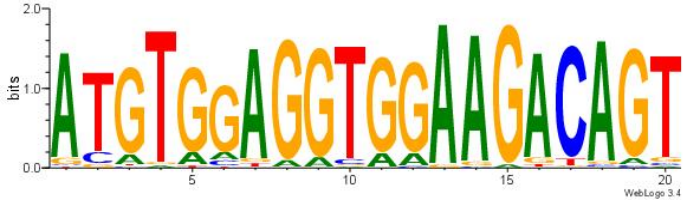

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15412

Alignment:
GTGCCAGGCACTGTKCTARG
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

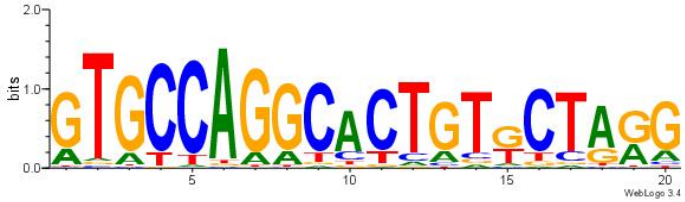

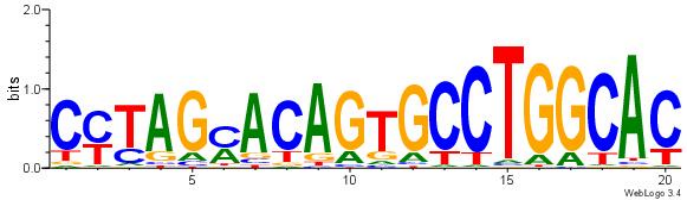

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15458

Alignment:
KKCACCTTGATCTTGGACTT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

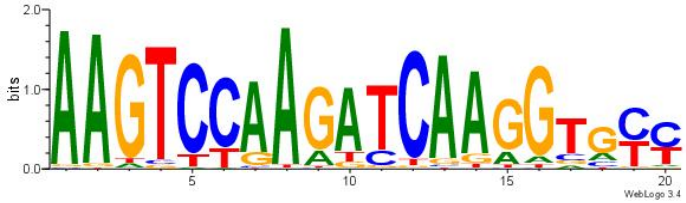

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

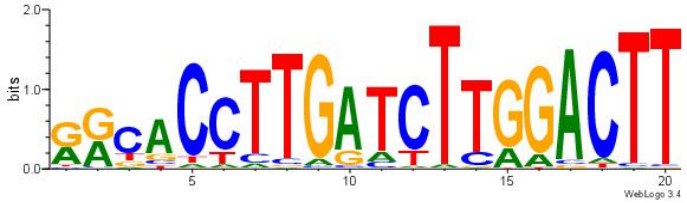

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154944

Alignment:

```
AGGTTTGTTACATAGGTAWA
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

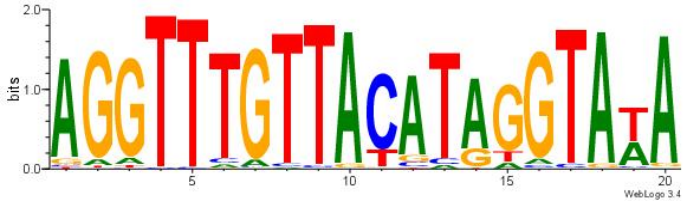

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

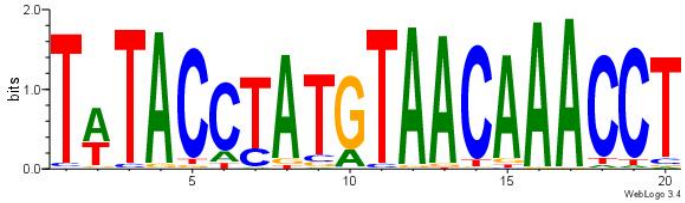

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155001

Alignment:
ATCRCTTGAGSYCAGGAGKT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

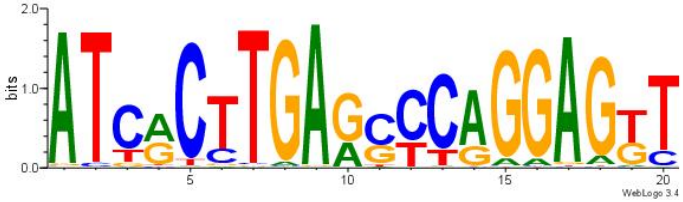

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

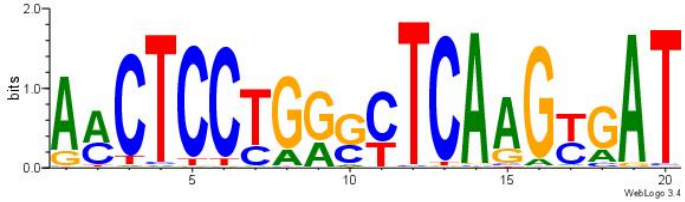

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155545

Alignment:
CCGCTGCACTGTGGGAGCCC
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

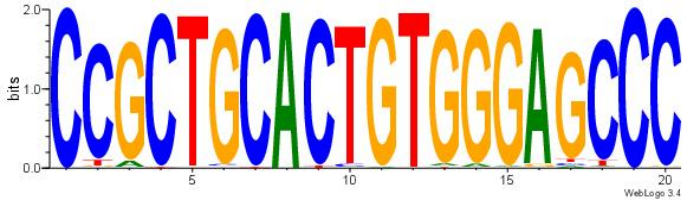

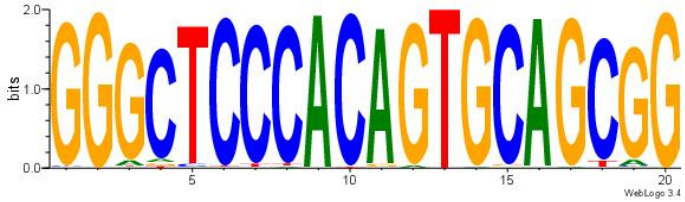

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156705

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

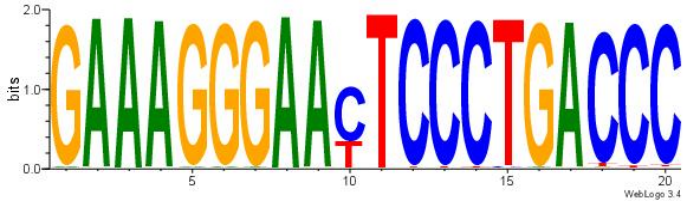

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

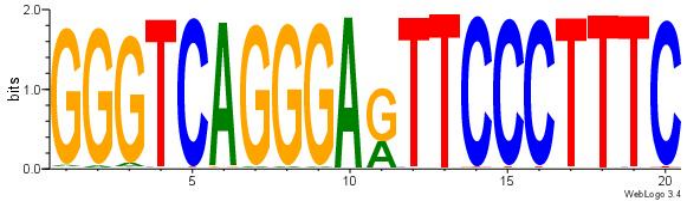

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15708

Alignment:

ACCGAGMKMGCAGCTTCGGG

TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

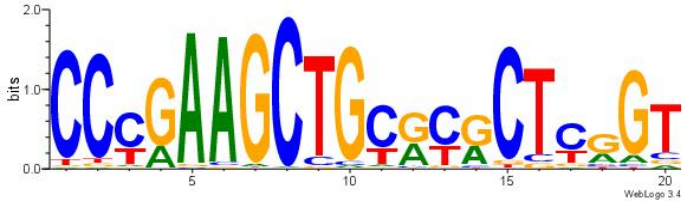

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

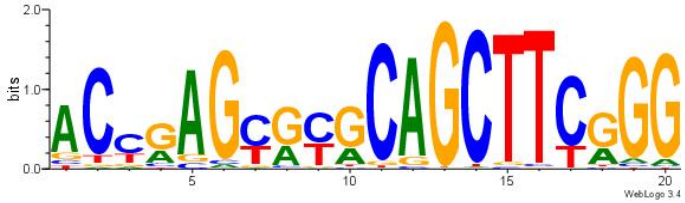

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157169

Alignment:
MTCCTCCAGACCCCAGAATG
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

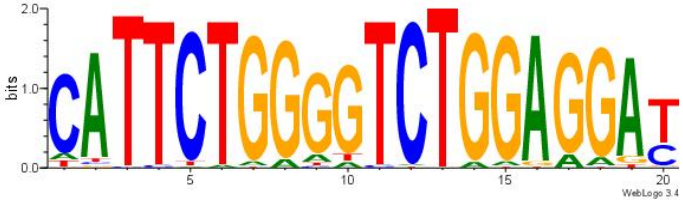

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

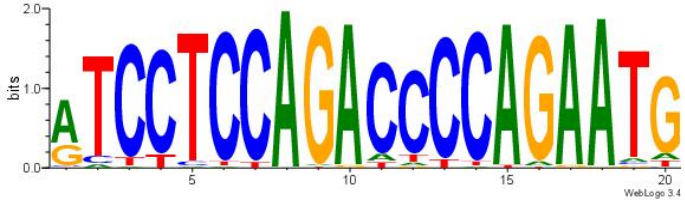

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157203

Alignment:
GCTGTGTGACCTTGGGCAAG
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

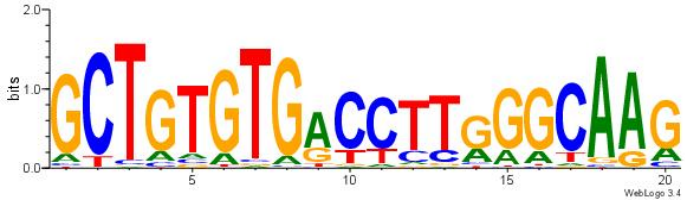

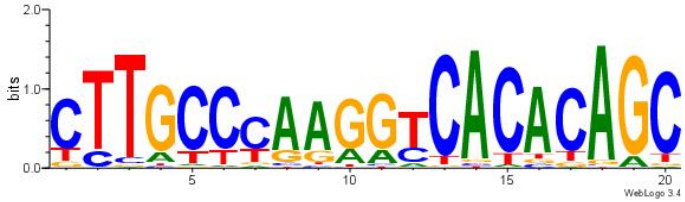

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15812

Alignment:
CGTCGCTCACGCTGGGAGCT
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

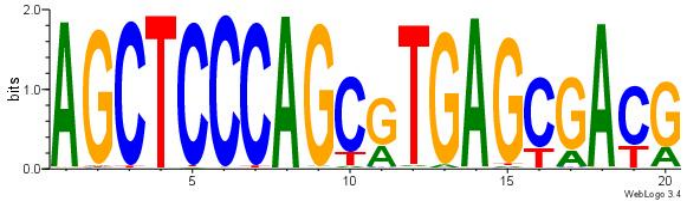

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

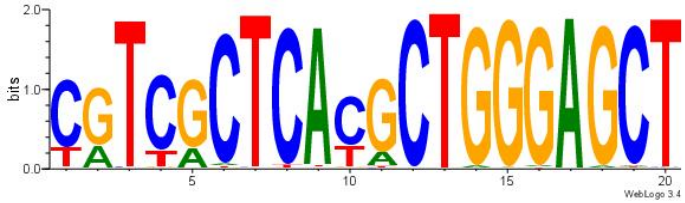

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158565

Alignment:

```
TYTGTCMTTTTGTGACTGGC
TACCTGAGACTGGGTAATTT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

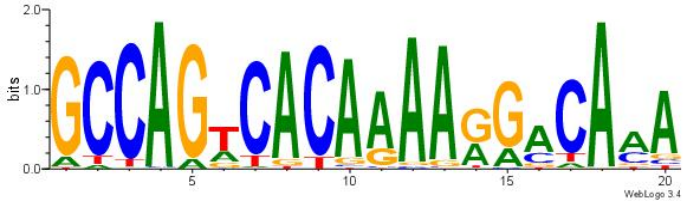

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

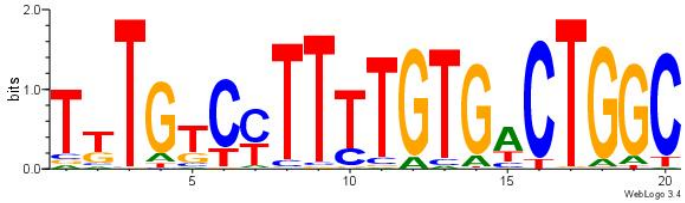

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158611

Alignment:
TCTGGAGTGGACCTCCAGCA
AAATTACCCAGTCTCAGGTA

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

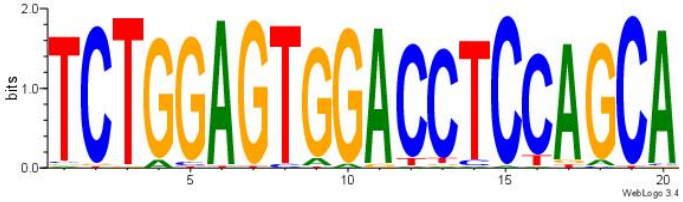

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

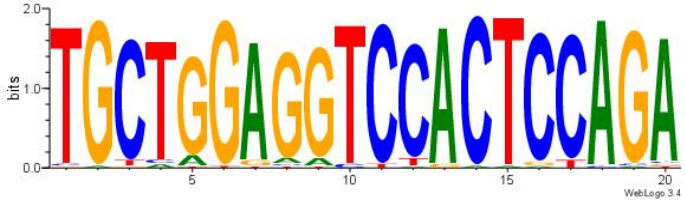

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160394

Alignment:
TCCCTCCCGGACGGGGYGGC
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

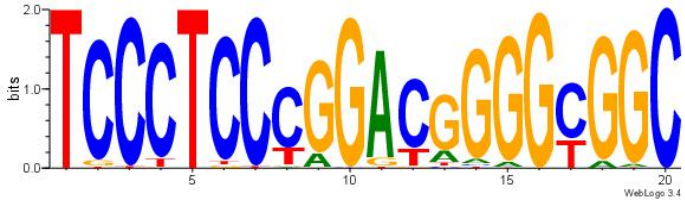

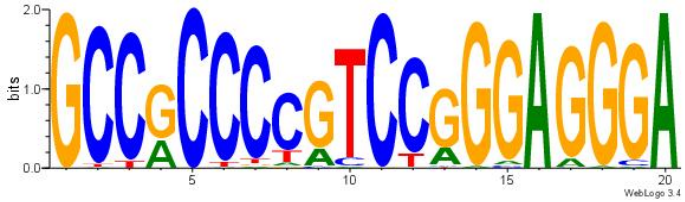

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160668

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
AAATTACCCAGTCTCAGGTA
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

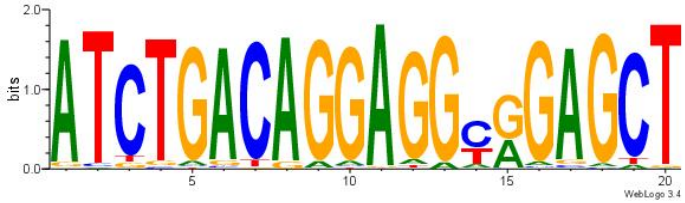

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

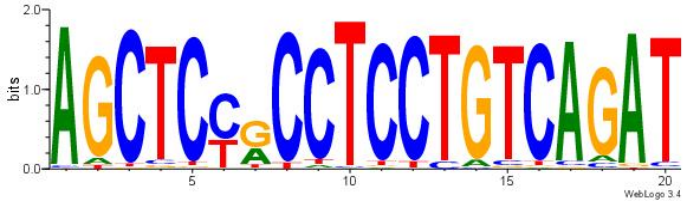

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160724

Alignment:
GCGCTCKTCGGGGAGGCTCG
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

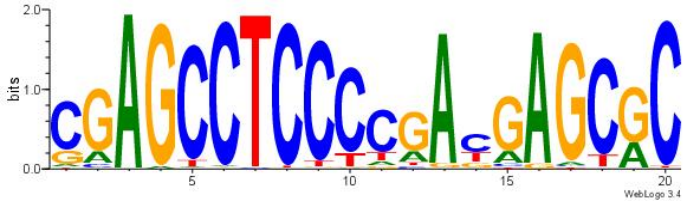

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

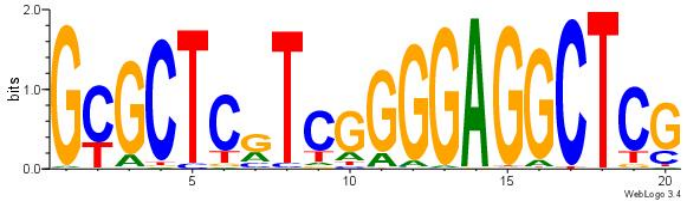

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.161437

Alignment:
MGTCTMKCTCTGTKGCCCAG
TACCTGAGACTGGGTAATTT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

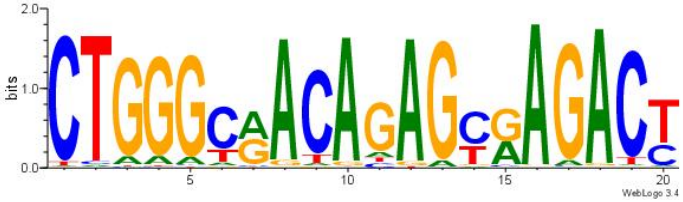

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

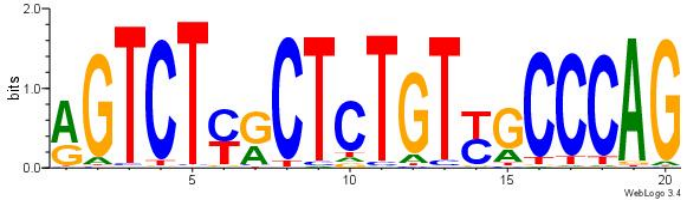

Dataset #: 1 Motif ID: 161 Motif name: Motif 161

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

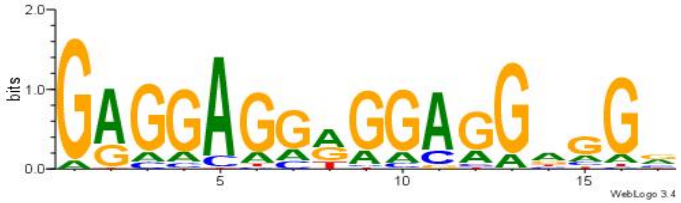

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

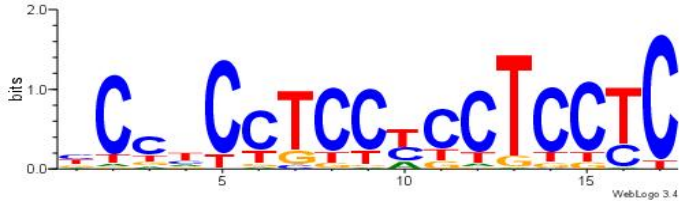

Best Matches for Motif ID 161 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0527497

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
--GAGGAGGRGGAGGDGGV-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

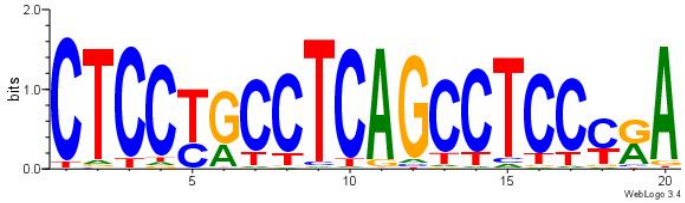

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

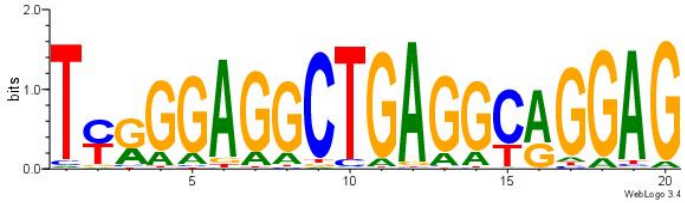

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0591495

Alignment:

ATGTGGAGGTGGAAGACAGT
--GAGGAGGRGGAGGDGGV-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

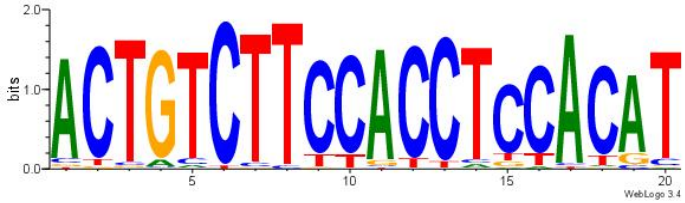

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

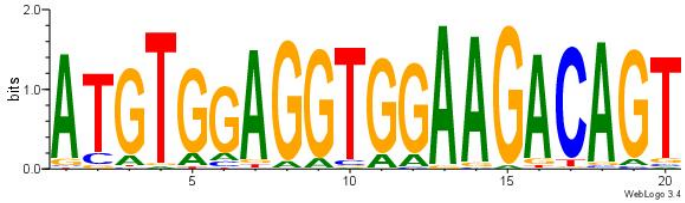

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.062256

Alignment:
GAGAGAGAGAGAGAGAGAGA
---GAGGAGGRGGAGGDGGV

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

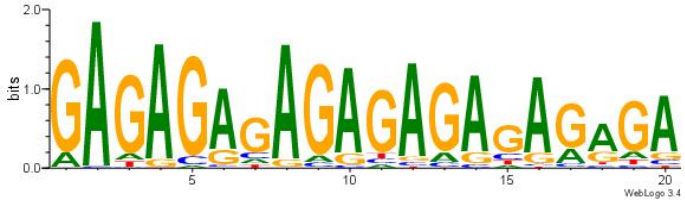

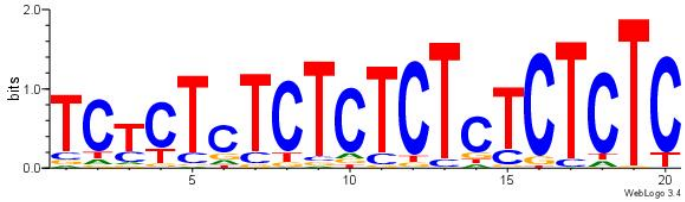

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0741592

Alignment:

```
GCCTCTCCCTCCACACCTCC
---VCCDCCTCCKCCTCCTC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

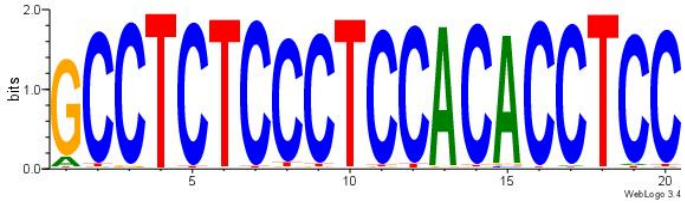

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

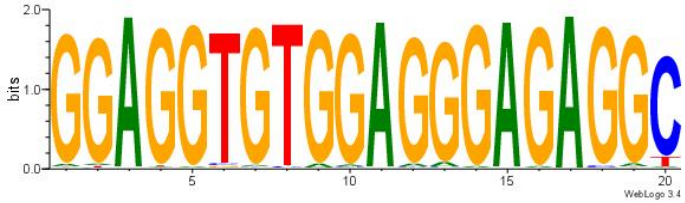

Dataset #:	1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.080042

Alignment:

```
ATTAGCYRGGCRTGGTGGC
--GAGGAGGRGGAGGDGGV
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

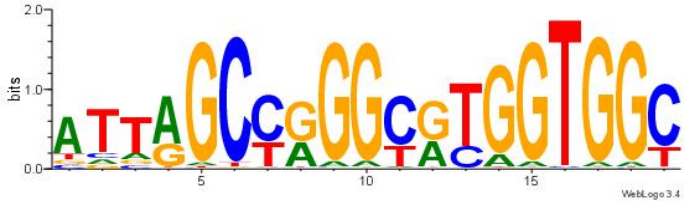

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

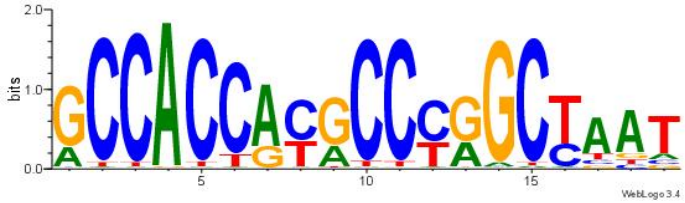

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.0802697

Alignment:
GAAHCAACCKAAKTGTCCAT
---VCCDCCTCCKCCTCCTC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

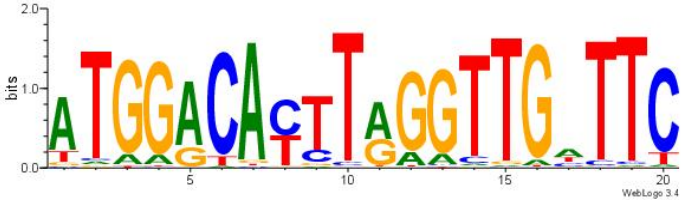

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

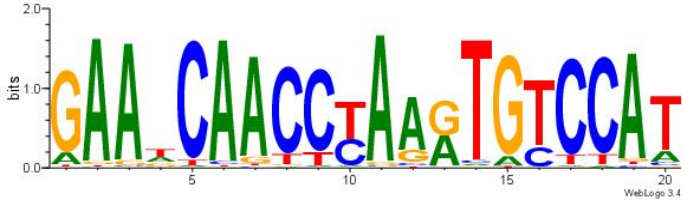

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.0807746

Alignment:
AGCTCMKCCTCCTGTCAGAT
VCCDCCTCCKCCTCCTC---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

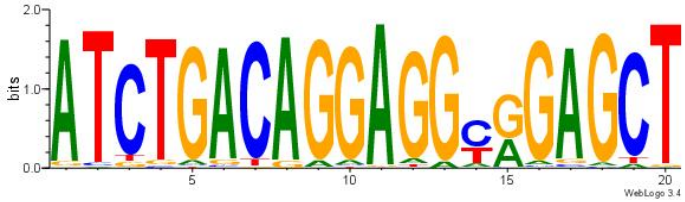

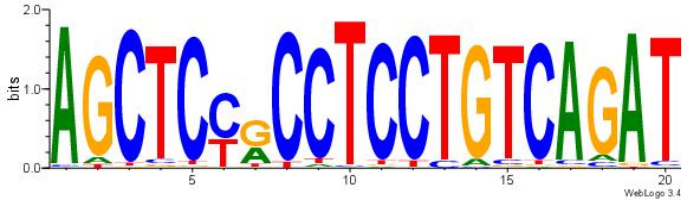

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0815805

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
VCCDCCTCCKCCTCCTC---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

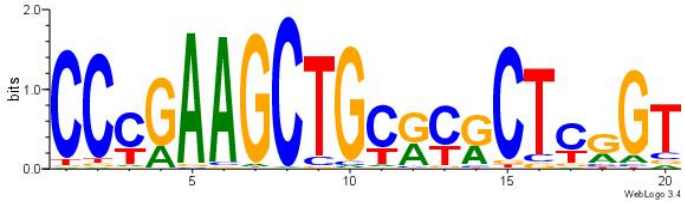

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

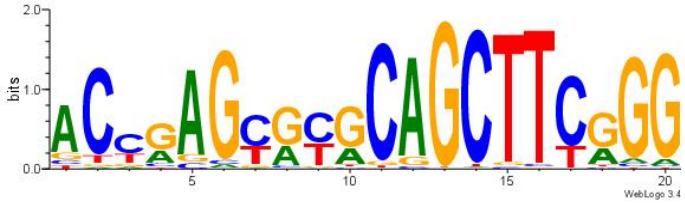

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0824652

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
---GAGGAGGRGGAGGDGGV
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

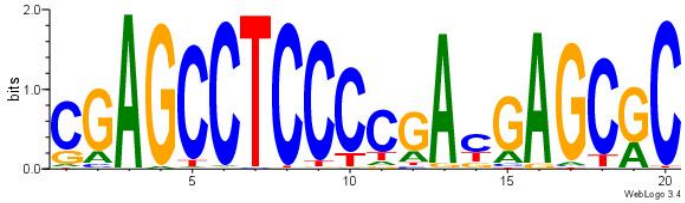

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

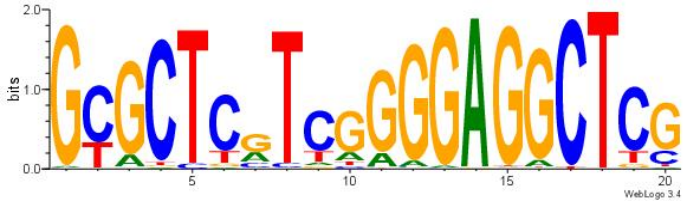

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.0831274

Alignment:
AAGCTGAGGGAGCCGGCTCC
GAGGAGGRGGAGGDGGV---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

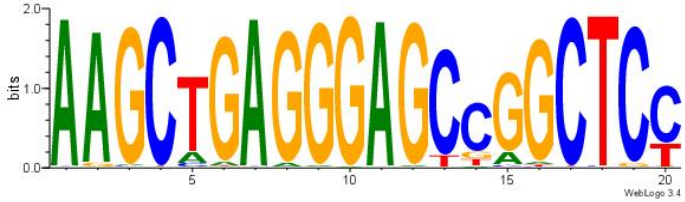

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

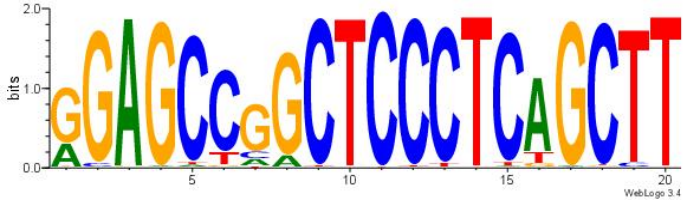

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0854746

Alignment:
AAGCAGGGCGAGGCATTGCC
GAGGAGGRGGAGGDGGV---

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

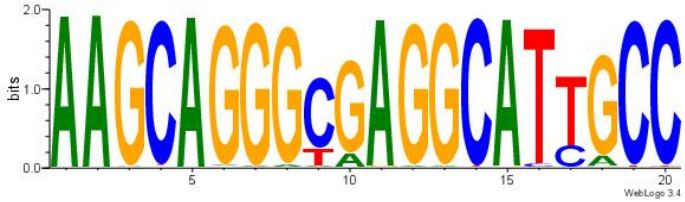

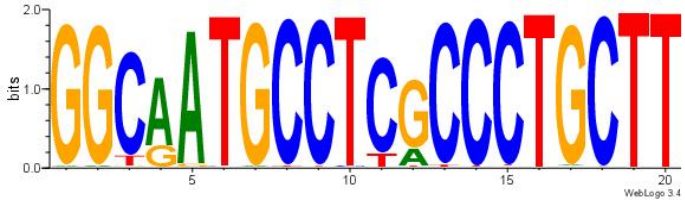

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0871765

Alignment:

```
CTGGGCRACAGAGYRAGACY
-GAGGAGGRGGAGGDGGV--
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

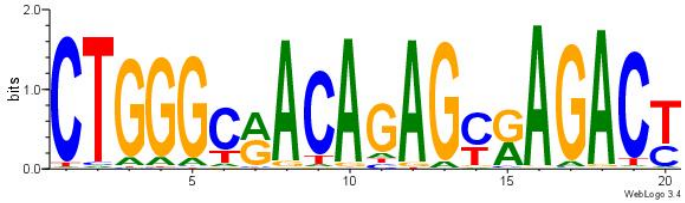

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

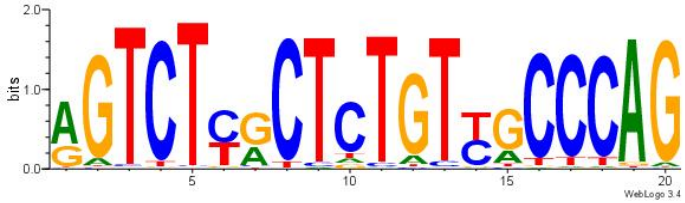

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0879874

Alignment:
GGGTGCAGGMGGGCTGAGT
GAGGAGGRGGAGGDGGV--

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

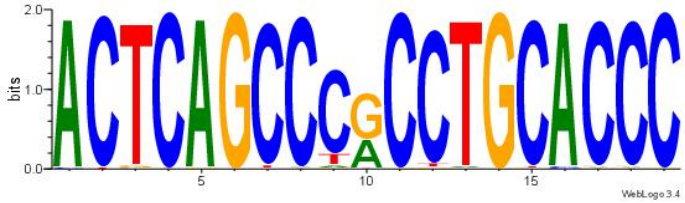

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

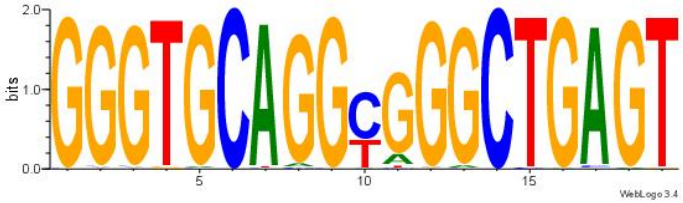

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.088004

Alignment:
ACATCMTCTGAAATCTAGG
VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

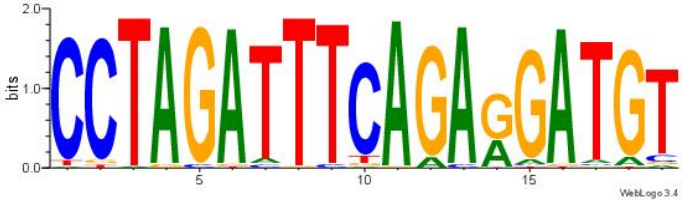

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

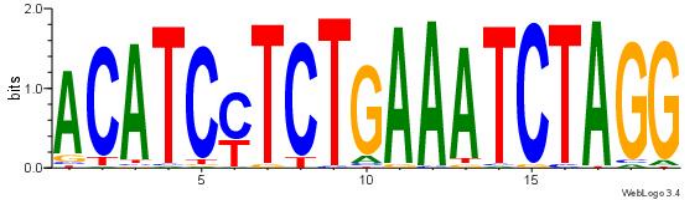

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.0890896

Alignment:
CCCYAATACTGCGCTTTTC
VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

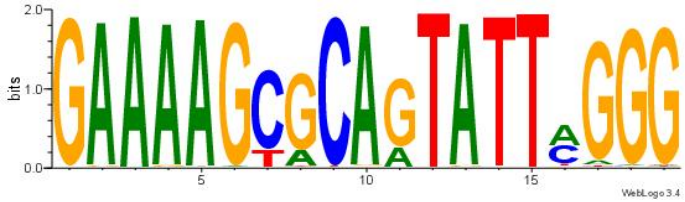

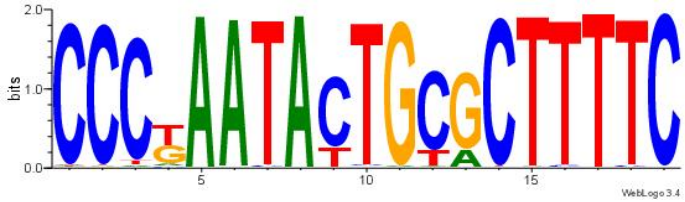

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0891065

Alignment:

```
AGACAGTGGGYGCAGGHCA
GAGGAGGRGGAGGDGGV--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

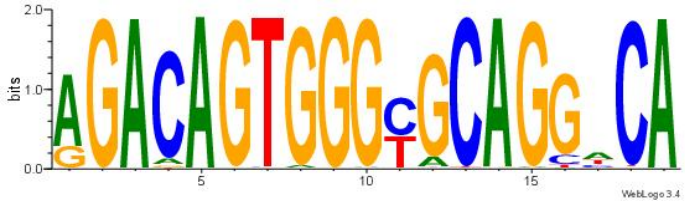

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

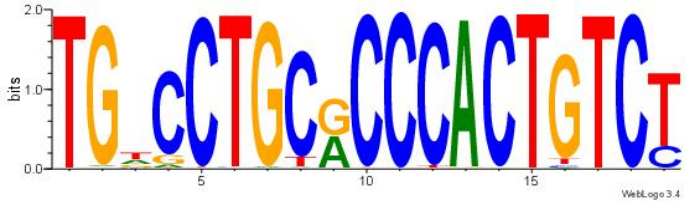

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0913123

Alignment:

```
CAACATGGATGRARCTGGAG
-GAGGAGGRGGAGGDGGV--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

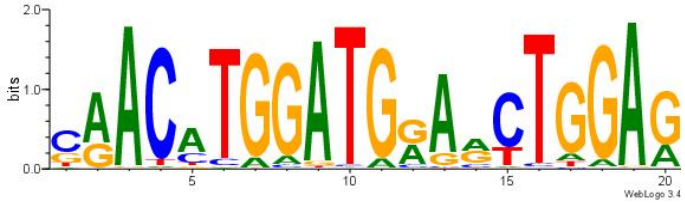

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

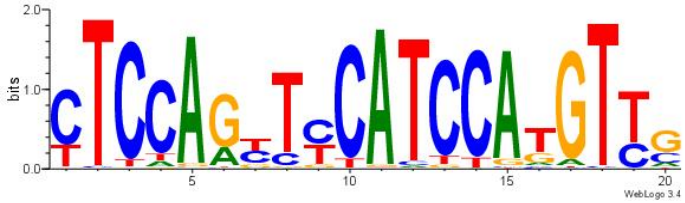

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.0918727

Alignment:
GCCAGTCACAAAARGACAMA
--GAGGAGGRGGAGGDGGV-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

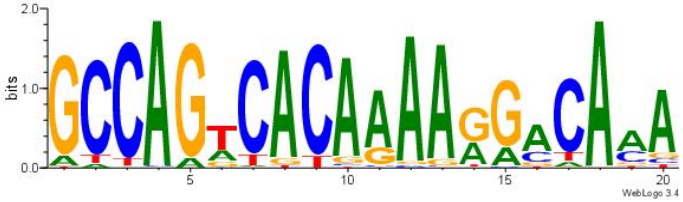

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

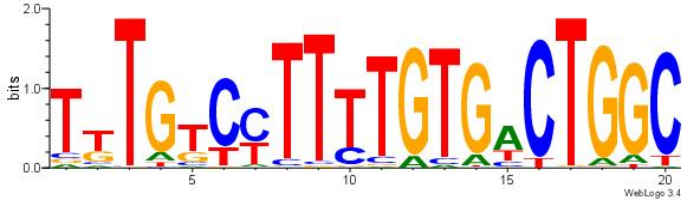

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.0928812

Alignment:
KKCACCTTGATCTTGGACTT
-VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

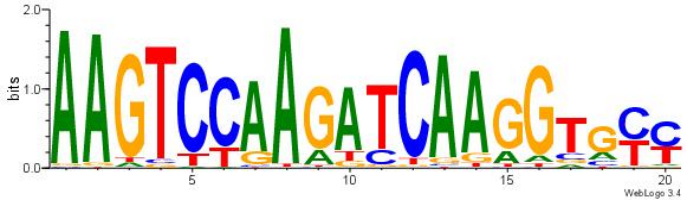

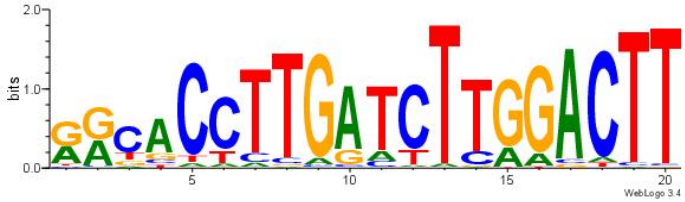

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0934007

Alignment:

```
TCKMGCCACTGCACTCCAGC
---VCCDCCTCCKCCTCCTC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

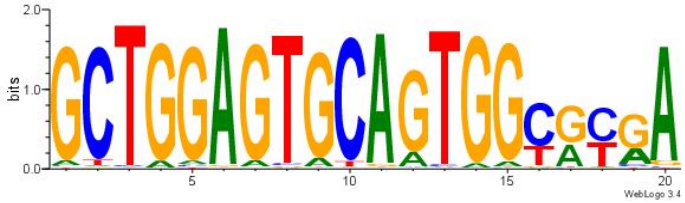

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

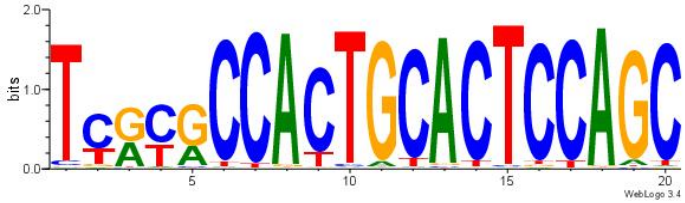

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0939769

Alignment:

```
TTGGAGGTTCTAGCAGGG
GAGGAGGRGGAGGDGGV-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

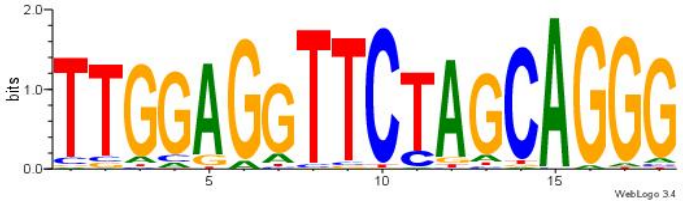

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.0943381

Alignment:
GCTGGCCCGCAAGCGCCGCG
-VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

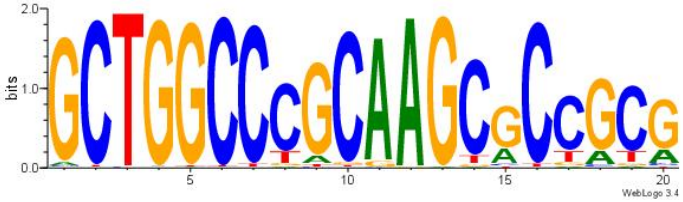

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

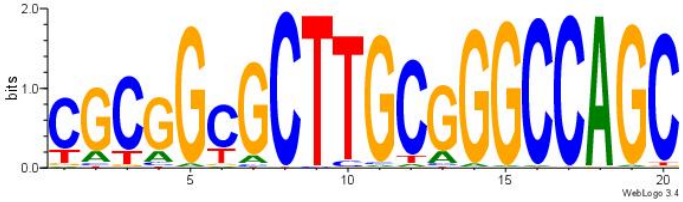

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0943488

Alignment:
TAMGACCTCAGGTCCTCAG
VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

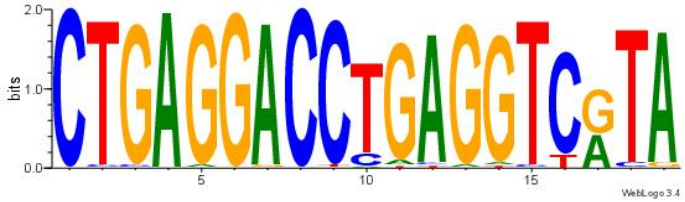

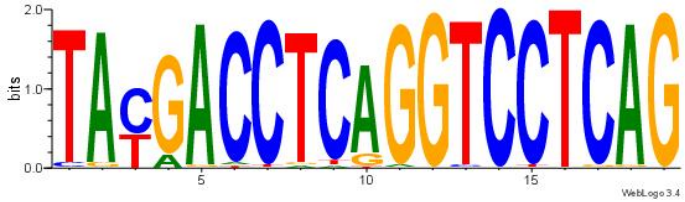

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.0945446

Alignment:
CTCATTTAATCCTCACAAC
--VCCDCCTCCKCCTCCTC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

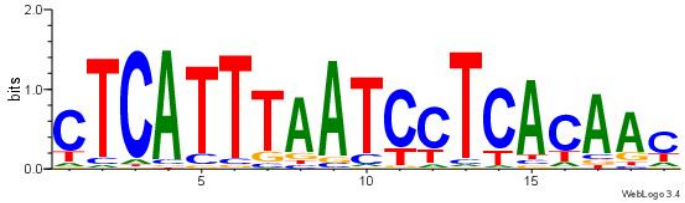

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

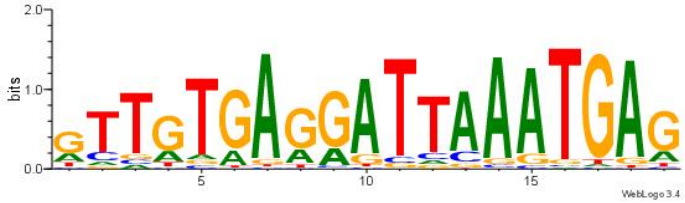

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0949842

Alignment:

```
VMATTTAKTGAGCACCTACT
-VCCDCCTCCKCCTCCTC--
```

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

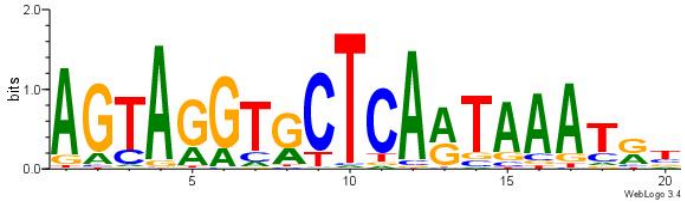

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

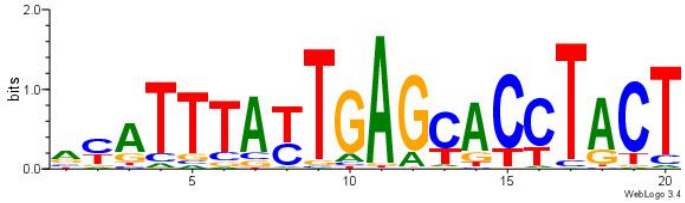

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.0956734

Alignment:
CTTGCCCAAGGTCACACAGC
---VCCDCCTCCKCCTCCTC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

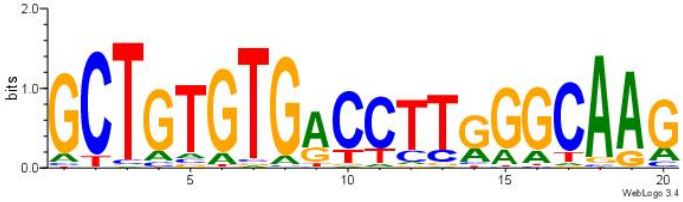

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

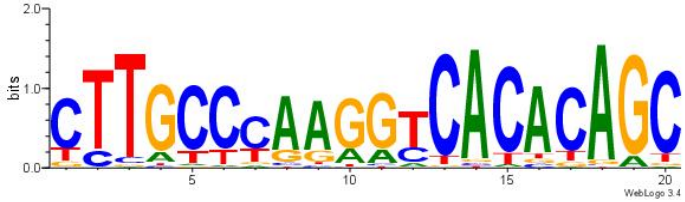

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.095695

Alignment:
AGCCCCGGTTCCCGCYCGC
--VCCDCCTCCKCCTCCTC

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

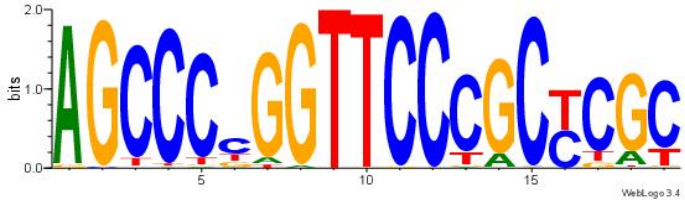

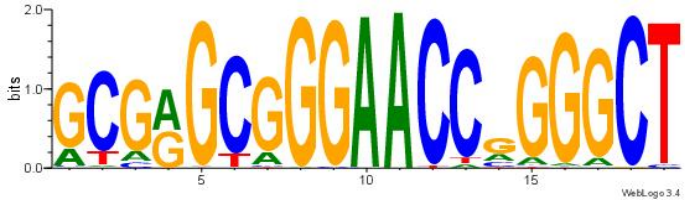

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0962105

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
VCCDCCTCCKCCTCCTC---
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

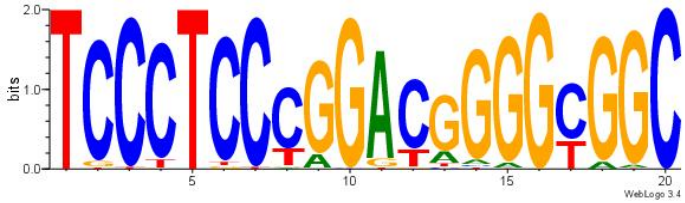

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

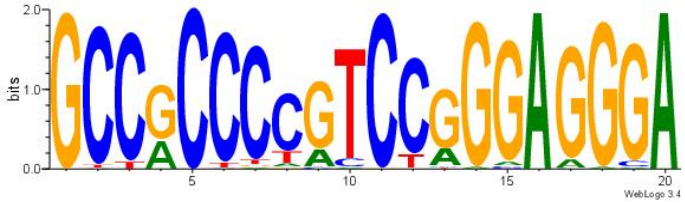

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.097366

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
VCCDCCTCCKCCTCCTC---
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

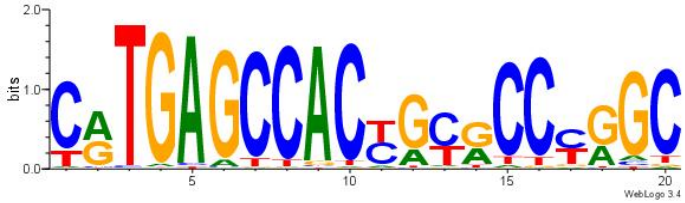

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

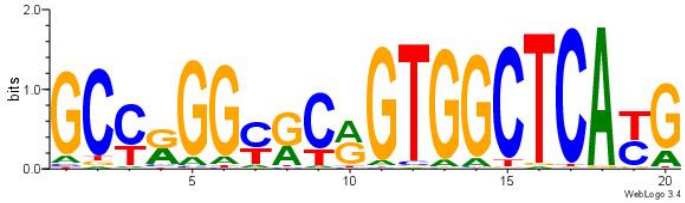

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.097994

Alignment:
TGTGTGTGTGTKTGTGTGT
-GAGGAGGRGGAGGDGGV-

Original motif Consensus sequence: ACACACAYACACACACACA

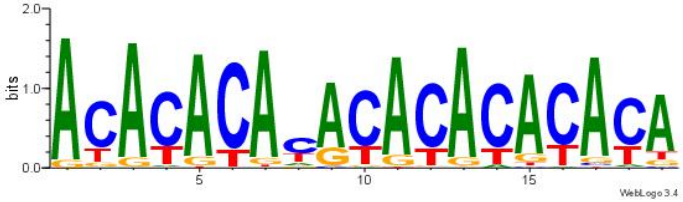

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

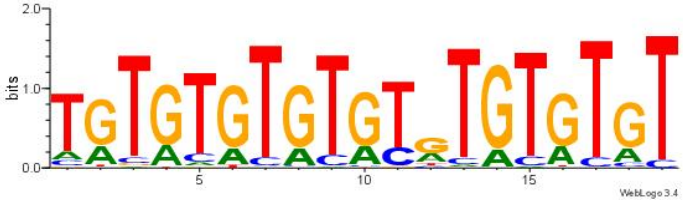

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0980708

Alignment:
GATCACGAGGTCAGGAG
GAGGAGGRGGAGGDGGV

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

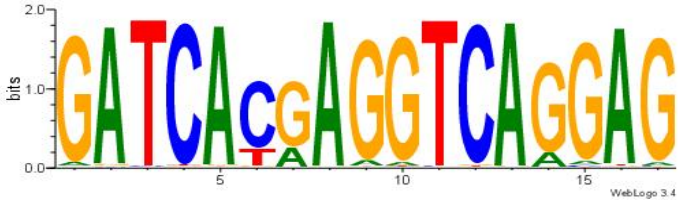

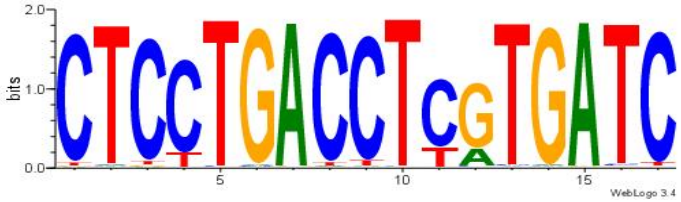

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0986694

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--GAGGAGGRGGAGGDGGV-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

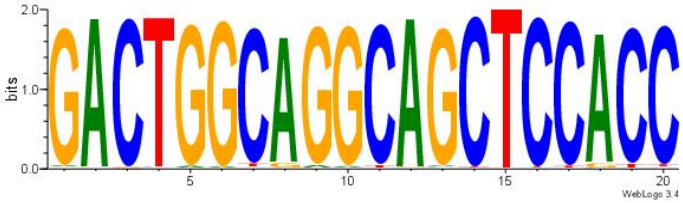

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

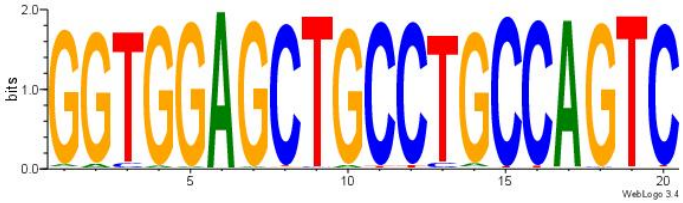

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0989141

Alignment:

```
AGGACTGAGGGTGCCYRGGG
---GAGGAGGRGGAGGDGGV
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

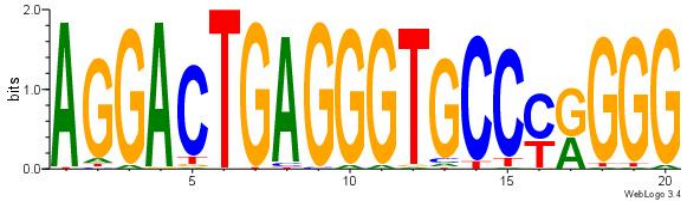

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

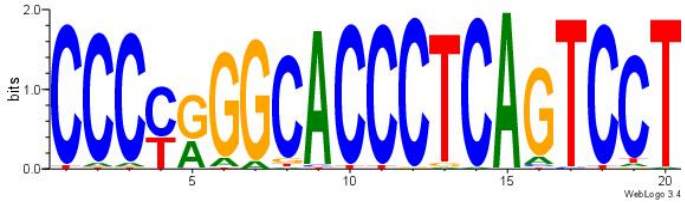

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.0989274

Alignment:
GCCTCCTTGAGCTGTGGTGG
VCCDCCTCCKCCTCCTC---

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

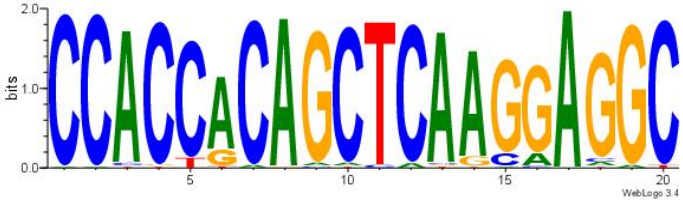

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

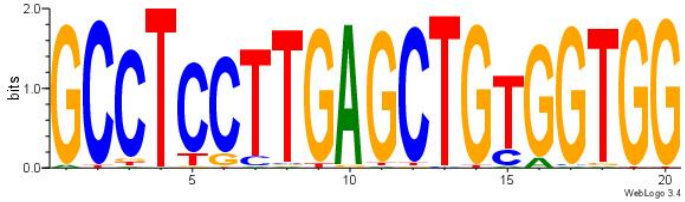

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.0990444

Alignment:
AGAGCCAAATCATGARTGAA
-GAGGAGGRGGAGGDGGV--

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

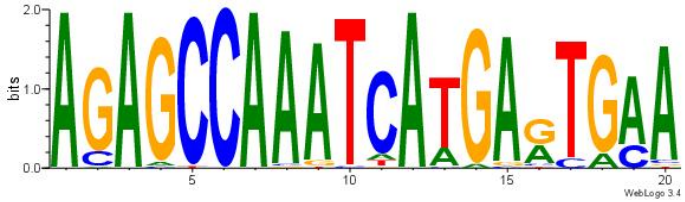

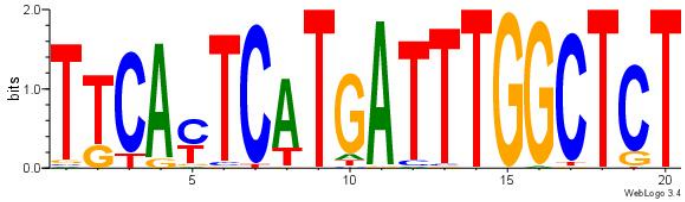

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0990505

Alignment:

```
TCCAAATGGGAGAAATTGGC
---GAGGAGGRGGAGGDGGV
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

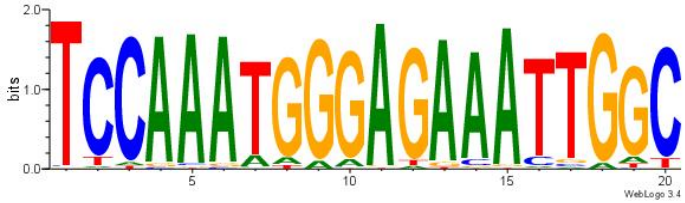

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

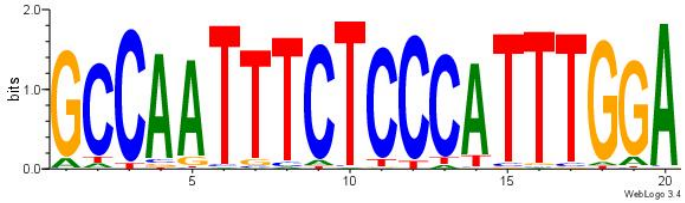

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0991708

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-GAGGAGGRGGAGGDGGV--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

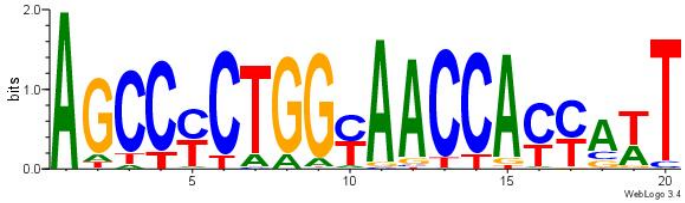

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

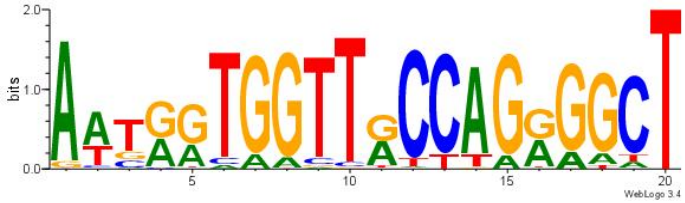

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.0994328

Alignment:
GTCCCATCGACCACCCAAG
--VCCDCCTCCKCCTCCTC

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

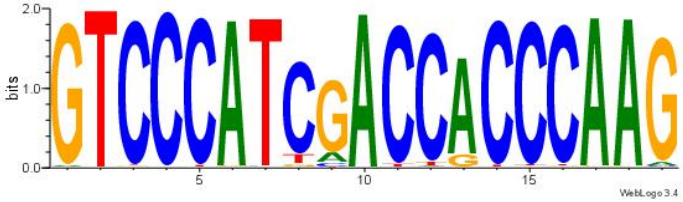

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

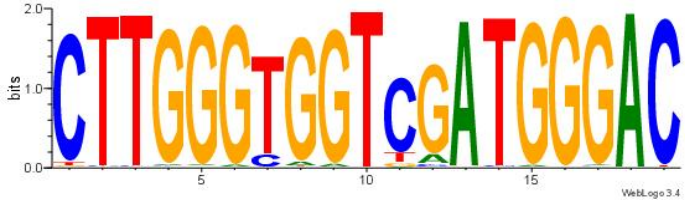

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0996216

Alignment:
GACAGGAGATTAACACTGAG
--GAGGAGGRGGAGGDGGV-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

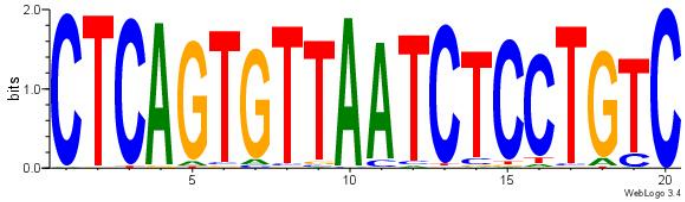

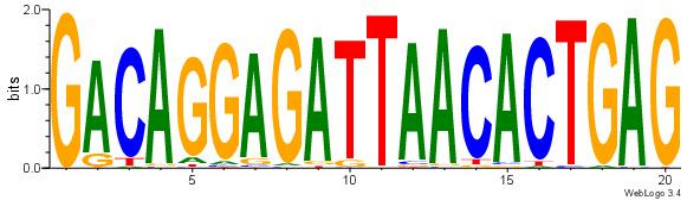

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.099805

Alignment:

```
GAATACCTCCTGAAGGACCT
-VCCDCCTCCKCCTCCTC--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

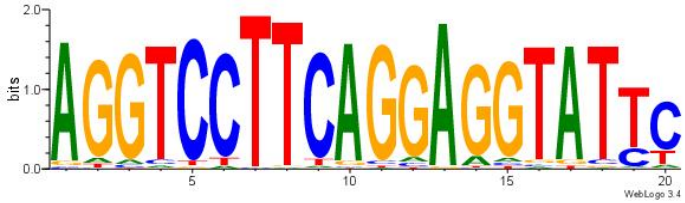

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

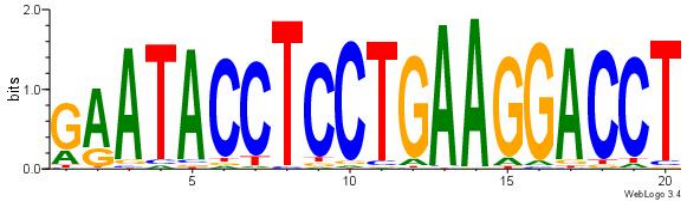

Dataset #:	1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0998084

Alignment:

```
GACTTCAAGAATGAAGCCG
GAGGAGGRGGAGGDGGV--
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

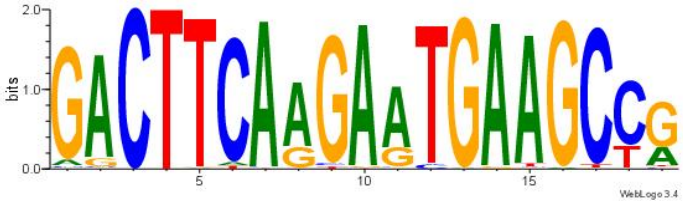

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

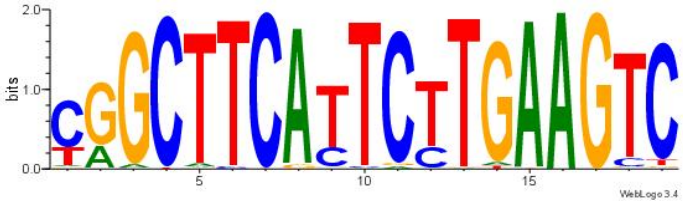

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.100348

Alignment:
ATCTCASAAATCACCACTA
VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: ATCTCASAAATCACCACTA

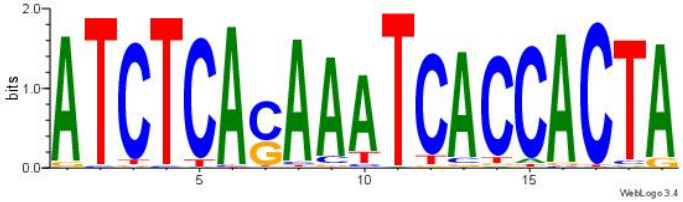

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

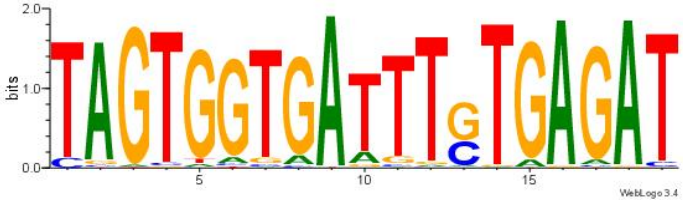

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.100632

Alignment:
GTGCCAGGCACTGTKCTARG
--VCCDCCTCCKCCTCCTC-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

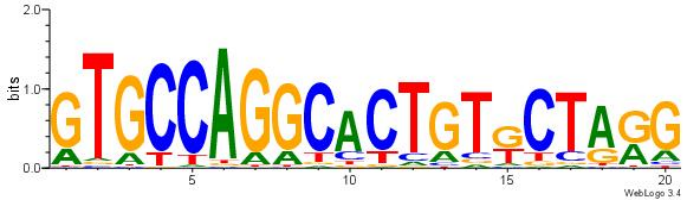

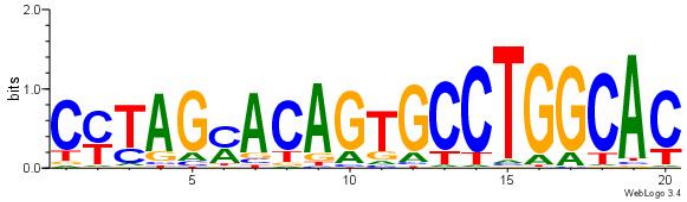

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.100917

Alignment:

```
HAGTGGKATTGCTGGATCAT
-GAGGAGGRGGAGGDGGV--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

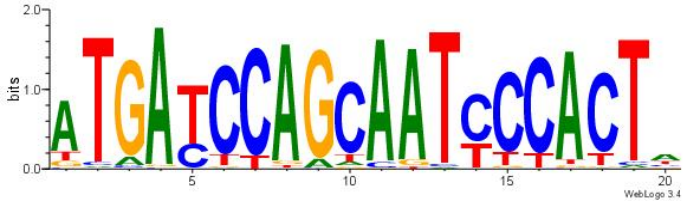

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

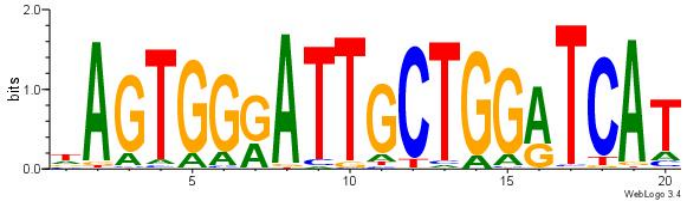

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.101941

Alignment:

```
ATACAATGGGGGTACAGRC
-GAGGAGGRGGAGGDGGV-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

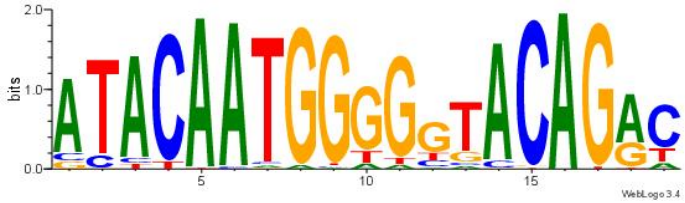

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

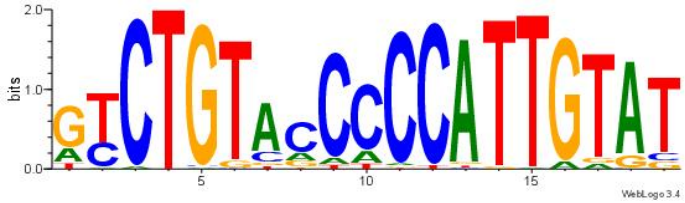

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.101952

Alignment:
AAGGAACAAACTCCRGACAC
GAGGAGGRGGAGGDGGV---

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

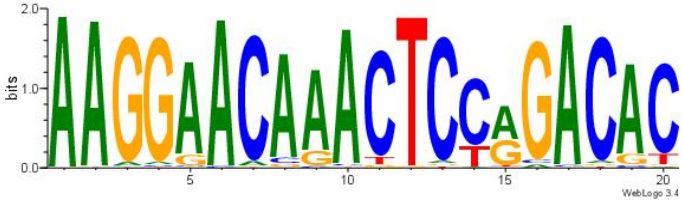

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

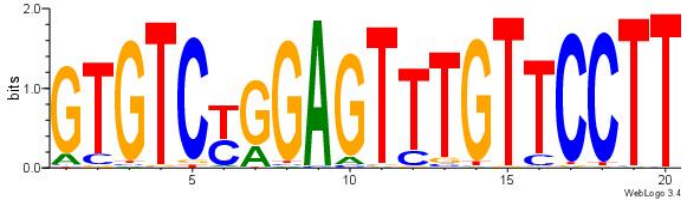

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.102018

Alignment:
AGGAGCGCCTCTKCCCGGC
--VCCDCCTCCKCCTCCTC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

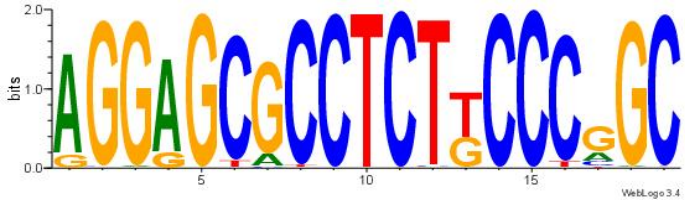

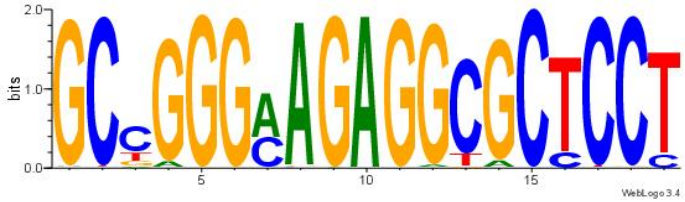

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.102147

Alignment:
AAAMAMMKMATGTTCTCACT
-VCCDCCTCCKCCTCCTC--

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

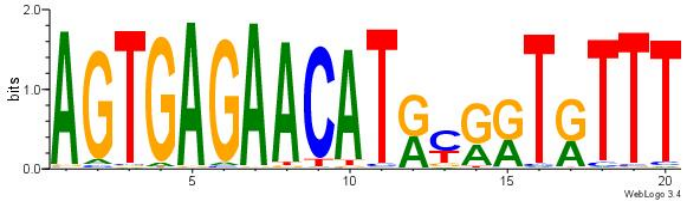

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

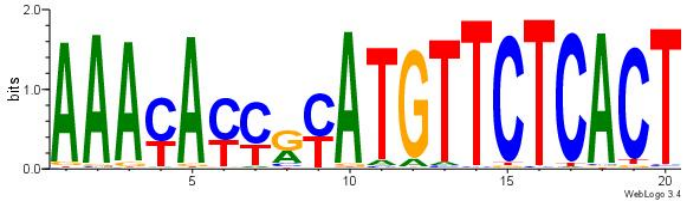

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.102289

Alignment:

```
ATGGCTGAATAKTATTCCAT
GAGGAGGRGGAGGDGGV---
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

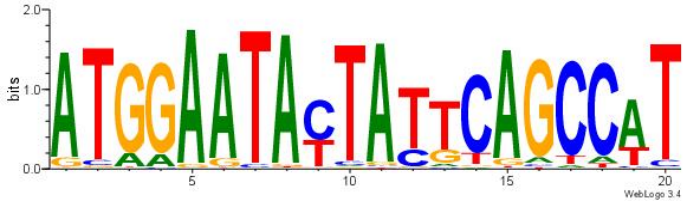

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

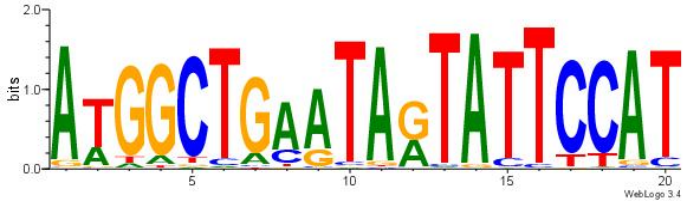

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.103001

Alignment:
TACCTGAGACTGGGTAATTT
-GAGGAGGRGGAGGDGGV--

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

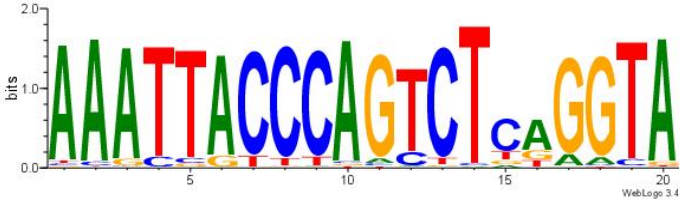

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

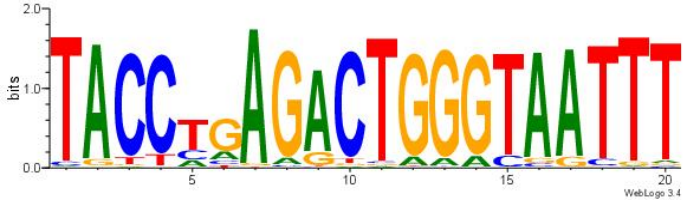

Dataset #: 1 Motif ID: 162 Motif name: Motif 162

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

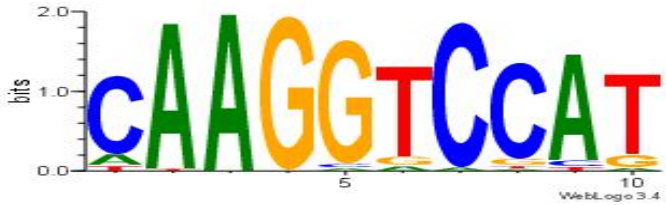

Best Matches for Motif ID 162 (Highest to Lowest)

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0562526

Alignment:

```
AAGGGACATTKGAG
-ATGGACCTTG---
```

Original motif Consensus sequence: AAGGGACATTKGAG

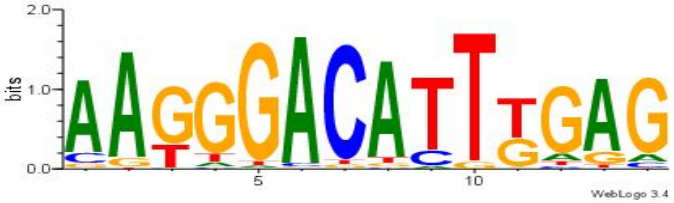

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

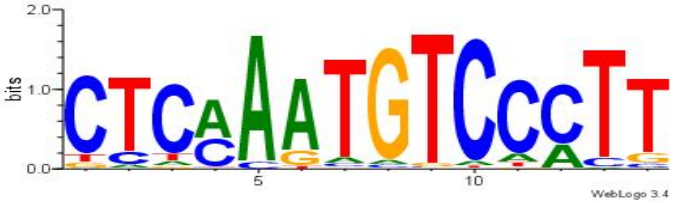

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0574028

Alignment:

```
CTCCAGKTMCATCCATGTTG
--CAAGGTCCAT--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

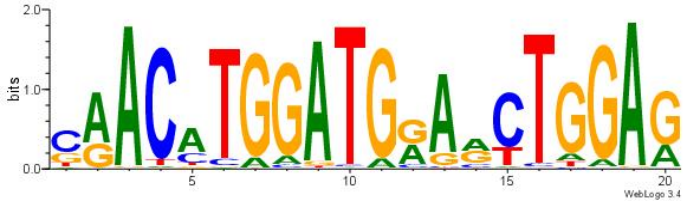

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

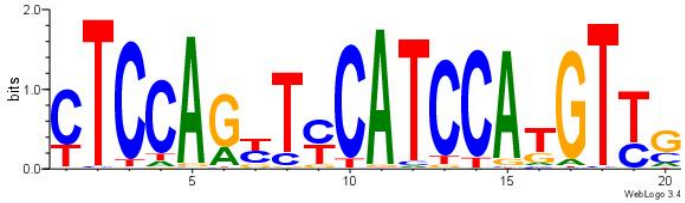

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0633278

Alignment:

```
GACATGAGCTGGCGCTTG
--------ATGGACCTTG
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

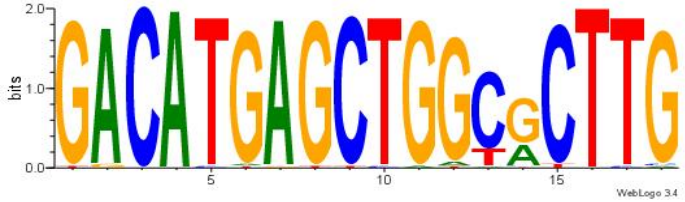

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

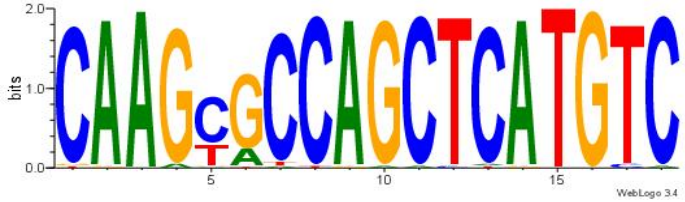

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0659068

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CAAGGTCCAT----------
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

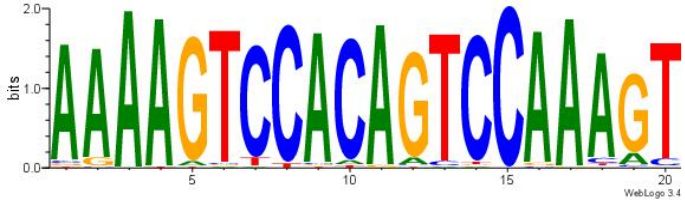

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

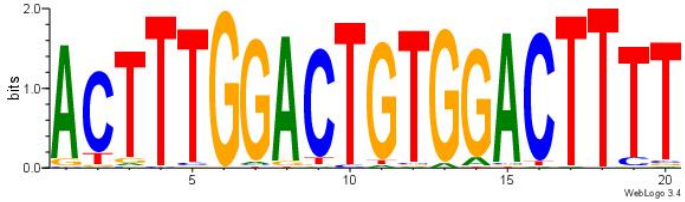

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8

Number of overlap: 10
Similarity score: 0.0673833

Alignment:
GCAWSTGCAAAGGCCCT
-------CAAGGTCCAT

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

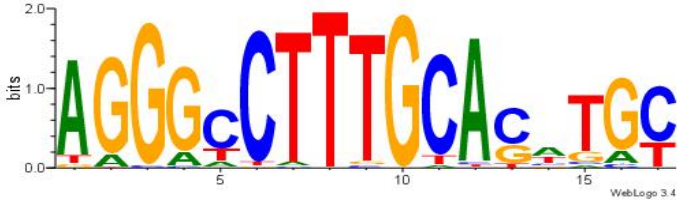

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

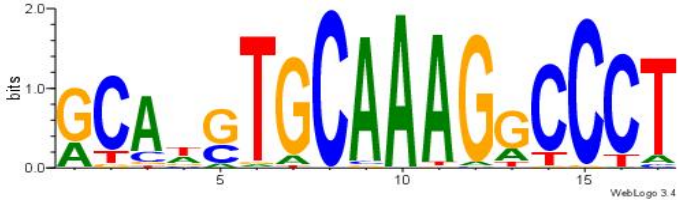

Dataset #: 1
Motif ID: 363
Motif name: Motif 363
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0674219

Alignment:
WACAATCAGACCTTG
-----ATGGACCTTG

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

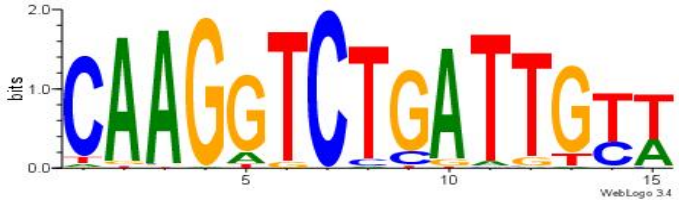

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0675015

Alignment:

```
TGTGACCTTGG
ATGGACCTTG-
```

Original motif Consensus sequence: CCAAGGTCACA

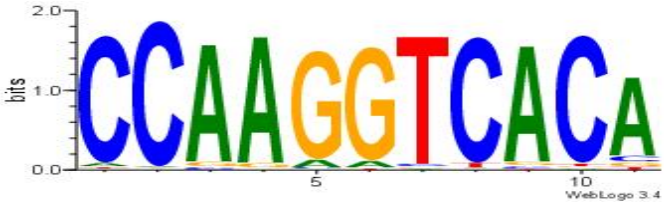

Reverse complement motif Consensus sequence: TGTGACCTTGG

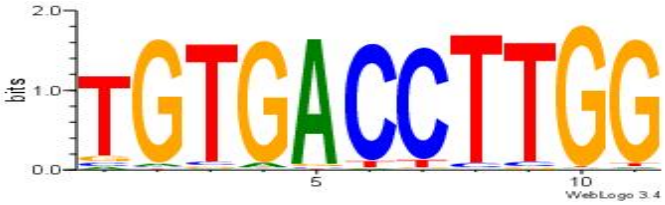

Dataset #:	1
Motif ID:	350

Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0678861

Alignment:

```
TGCTGGAGGTCCACTCCAGA
----CAAGGTCCAT------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

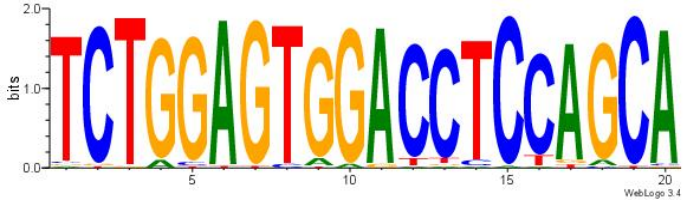

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

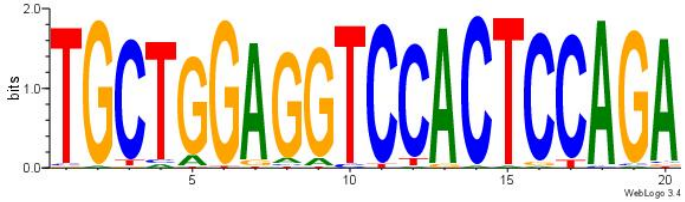

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0681066

Alignment:
AAGTCCAAGATCAAGGTGYY
-----CAAGGTCCAT-----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

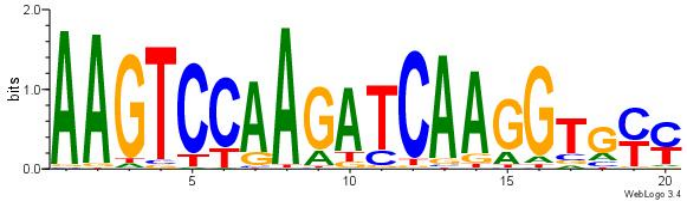

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

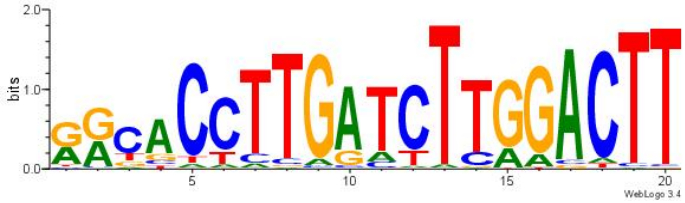

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.068208

Alignment:
CTACATGGACCTT
---CAAGGTCCAT

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

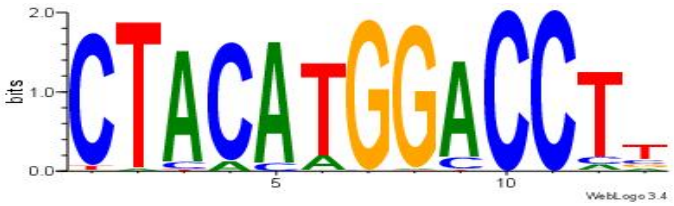

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.068734

Alignment:

```
ACAAGGCAAGTCCCTTCY
------CAAGGTCCAT--
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

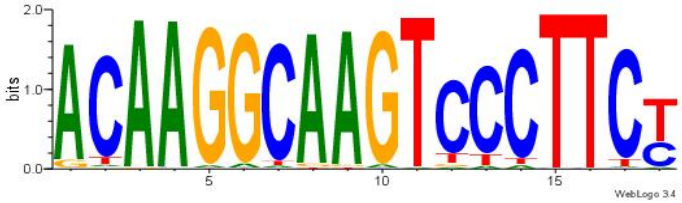

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

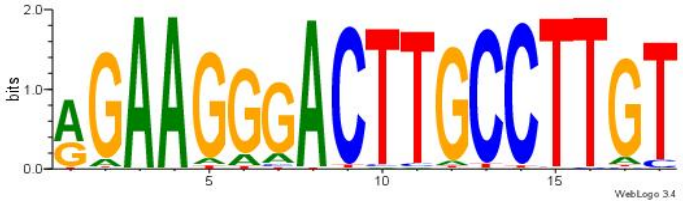

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0707738

Alignment:

```
ATGGACAYTTRGGTTGHTTC
ATGGACCTTG----------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

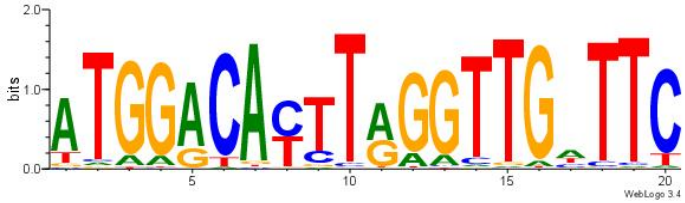

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

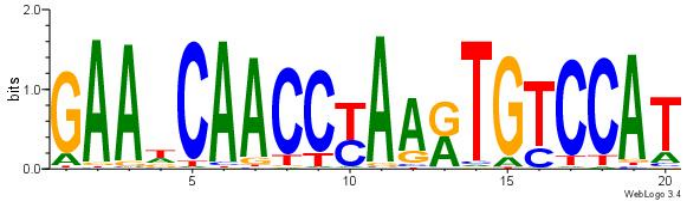

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0716881

Alignment:
KACATTGATTTTGTATC
---ATGGACCTTG----

Original motif Consensus sequence: GATACAAAATCAATGTR

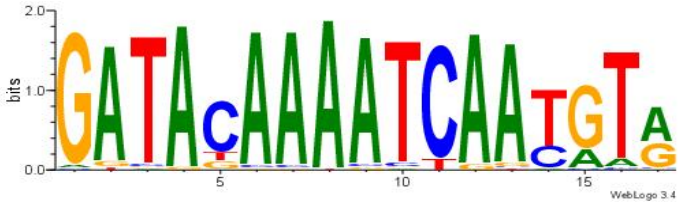

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

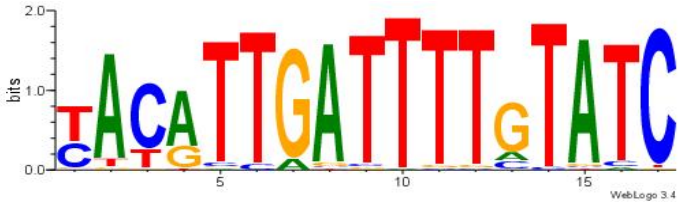

Dataset #: 1
Motif ID: 267
Motif name: Motif 267
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0723148

Alignment:
ATGGACTTGAGA
ATGGACCTTG--

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0745215

Alignment:

```
ATGGCCTATGACYGSTTTG
ATGGACCTTG---------
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

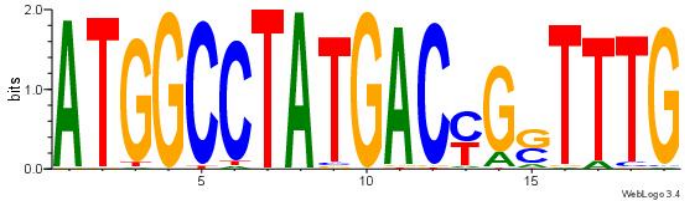

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

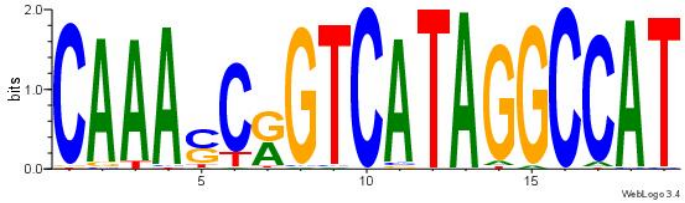

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0755787

Alignment:

```
AATCAACCCTGGYRATCAAT
-ATGGACCTTG---------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

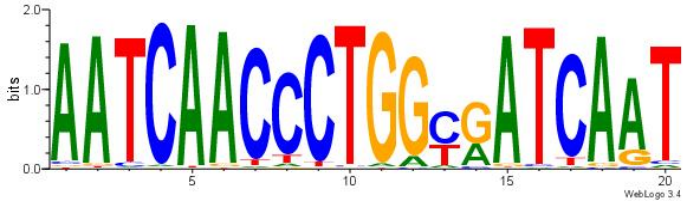

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

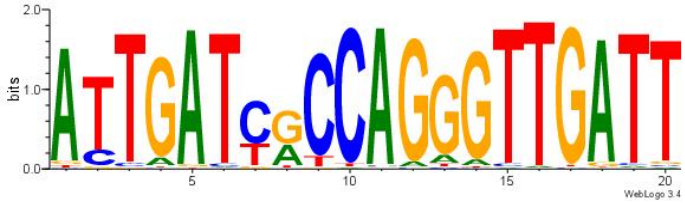

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0757189

Alignment:
AGGGATCTAGGTTGCR
ATGGACCTTG------

Original motif Consensus sequence: AGGGATCTAGGTTGCR

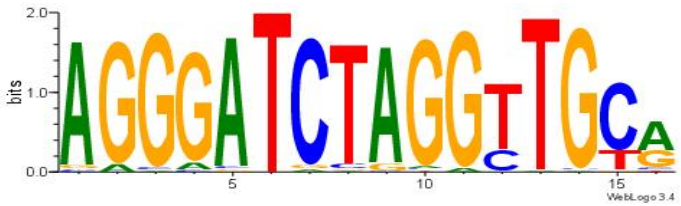

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

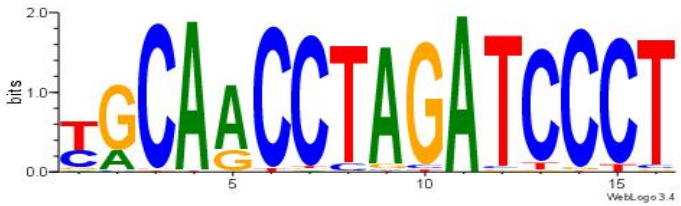

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0785566

Alignment:
CGCGGCGCTTGCGGGCCAGC
---------ATGGACCTTG-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

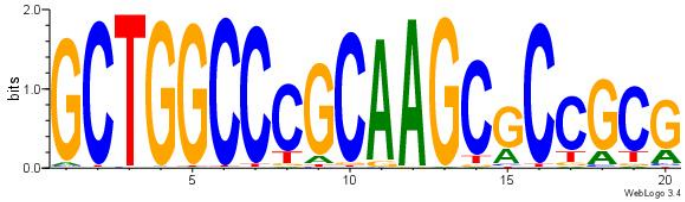

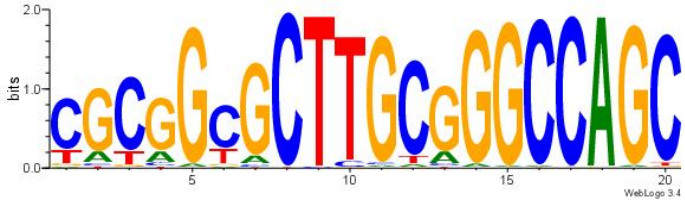

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0823177

Alignment:

```
CATGGAGCGGKK
-ATGGACCTTG-
```

Original motif Consensus sequence: CATGGAGCGGKK

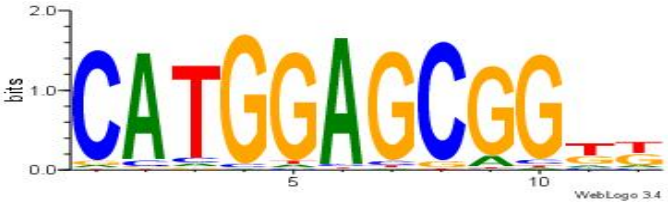

Reverse complement motif Consensus sequence: RRCCGCTCCATG

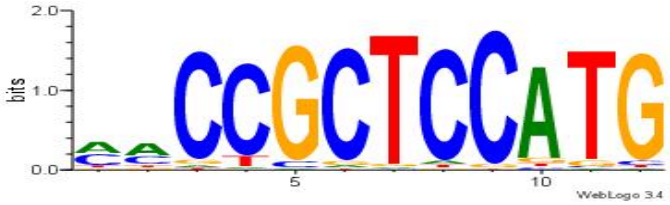

Dataset #:	1
Motif ID:	60

Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0823992

Alignment:

```
CTCCTGACCTCGTGATC
-----ATGGACCTTG--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

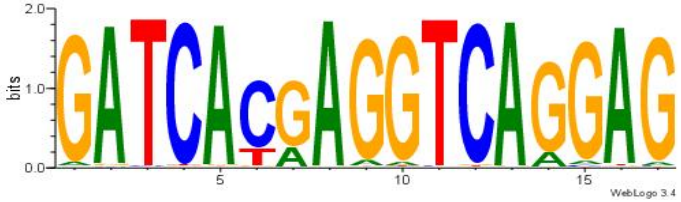

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

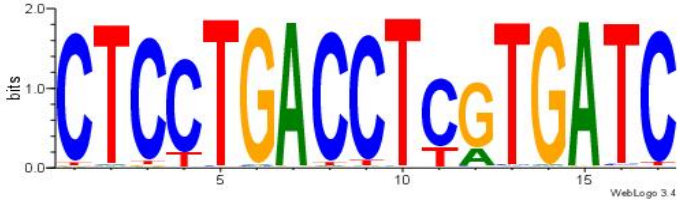

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0824711

Alignment:
GCAAAKGACATGATYTCATT
---------CAAGGTCCAT-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

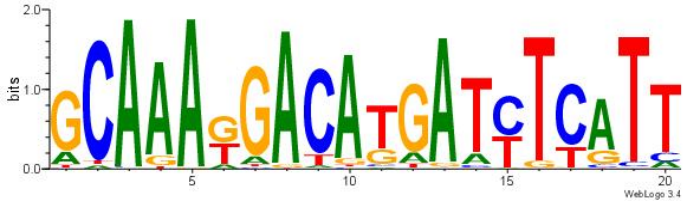

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

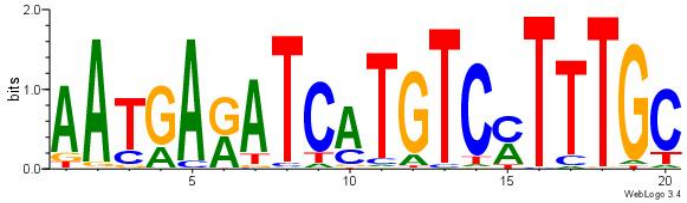

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0826894

Alignment:
KCCGGGCCTTAGCTGCCTTC
---------ATGGACCTTG-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

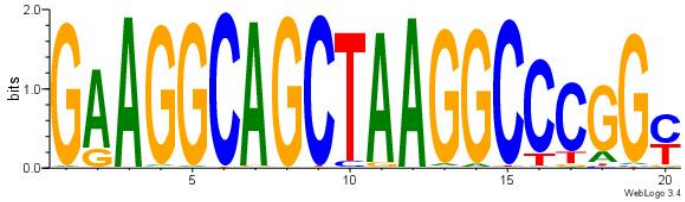

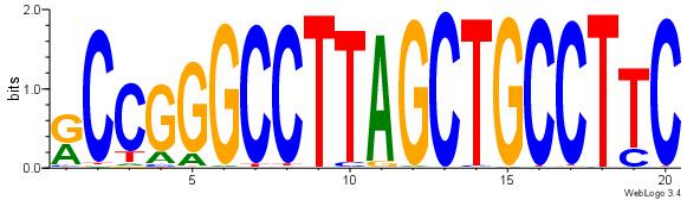

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0827495

Alignment:

```
GTGGCCCTCTTCTCACAGCT
ATGGACCTTG----------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

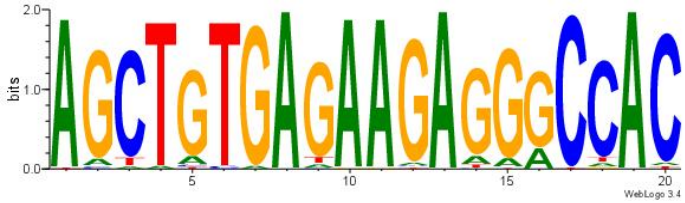

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

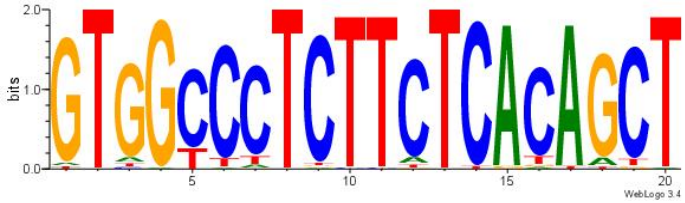

Dataset #:	1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0831564

Alignment:

```
GCTTAGCACCYGGGCCAGC
-CAAGGTCCAT--------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

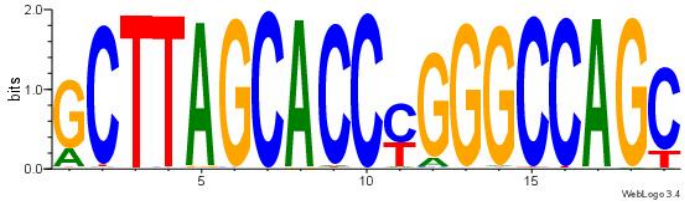

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

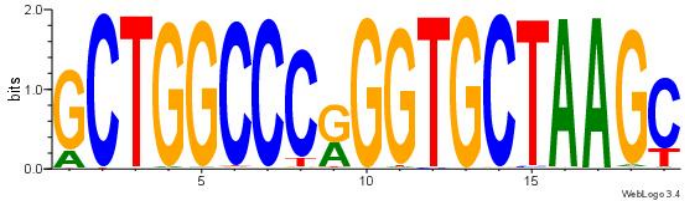

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0837832

Alignment:
GTGTCKGGAGTTTGTTCCTT
----ATGGACCTTG------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

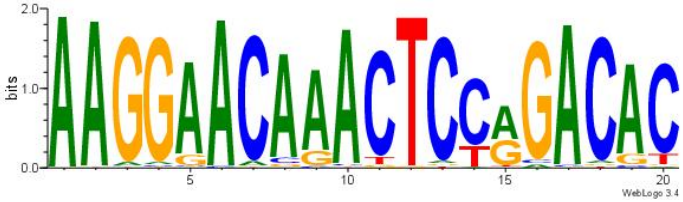

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

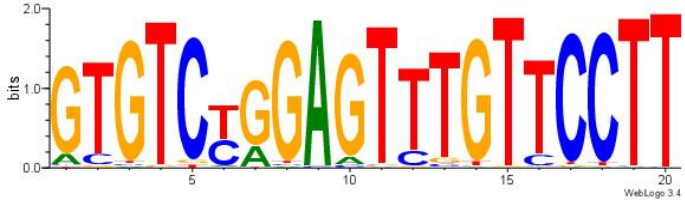

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0865151

Alignment:
CTGGCCCTCAATGGTTAAAC
ATGGACCTTG----------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

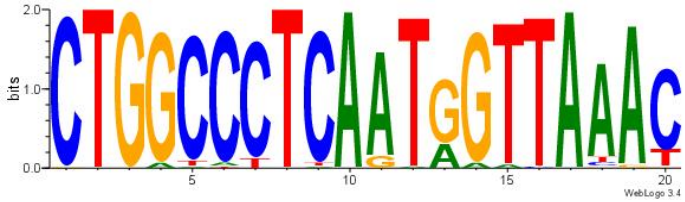

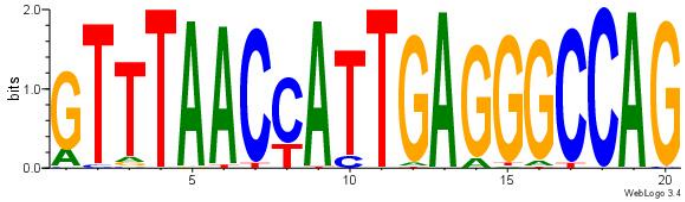

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0870067

Alignment:

```
ATGTAACCAAAYACCACCTG
-------CAAGGTCCAT---
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

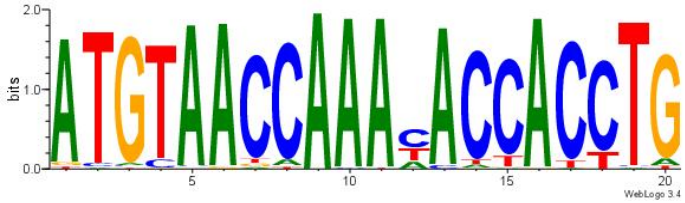

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

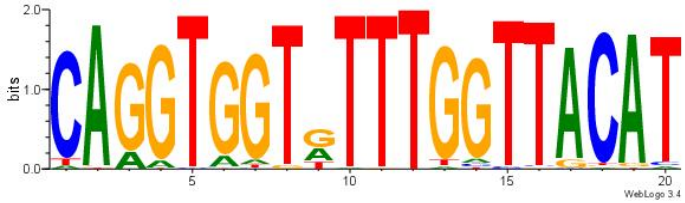

Dataset #:	1

Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0871809

Alignment:

```
AGCCTAGGCCTAC
---CAAGGTCCAT
```

Original motif Consensus sequence: AGCCTAGGCCTAC

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

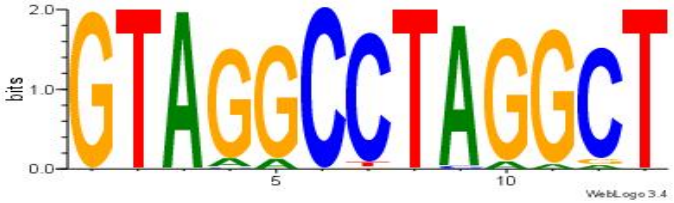

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0872811

Alignment:
AAAGCTGGAGCTATTATCTA
----ATGGACCTTG------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

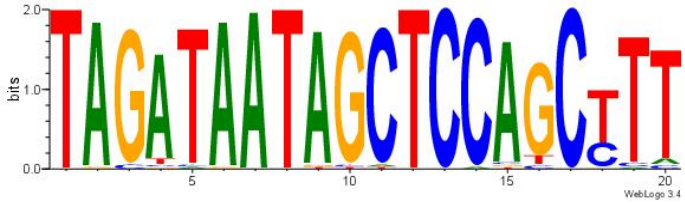

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

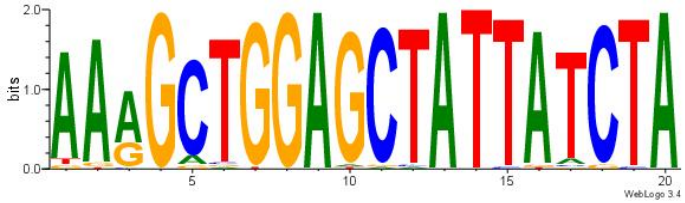

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0885006

Alignment:
GGTGGAGCTGCCTGCCAGTC
---------ATGGACCTTG-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

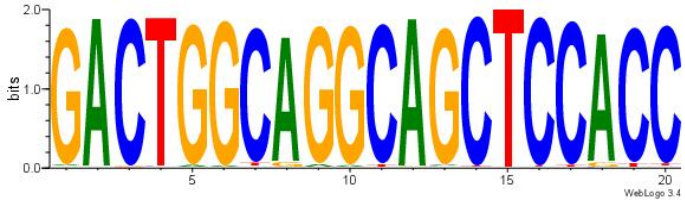

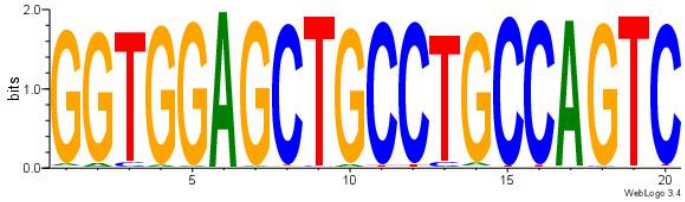

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0885978

Alignment:

```
TAMGACCTCAGGTCCTCAG
-------CAAGGTCCAT--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

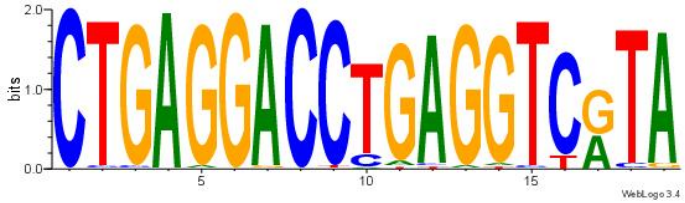

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

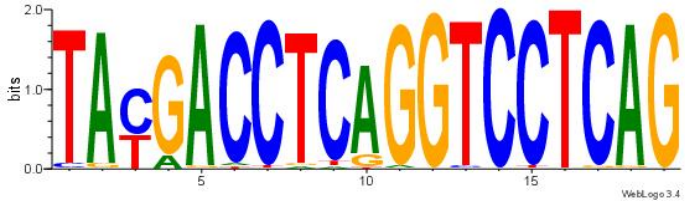

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0888034

Alignment:

```
GCACATGTAYCCYAGAACTT
----ATGGACCTTG------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

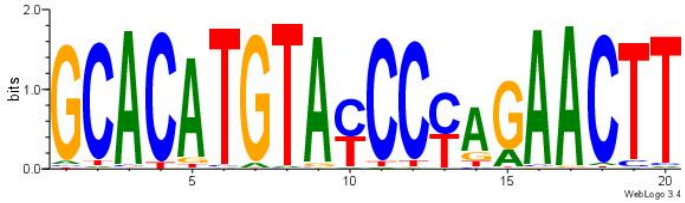

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

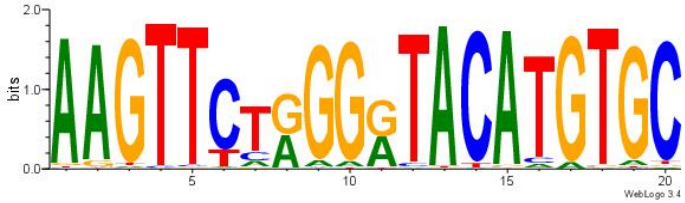

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0889399

Alignment:
CCCAAATCTCATSTTGAAT
--CAAGGTCCAT-------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

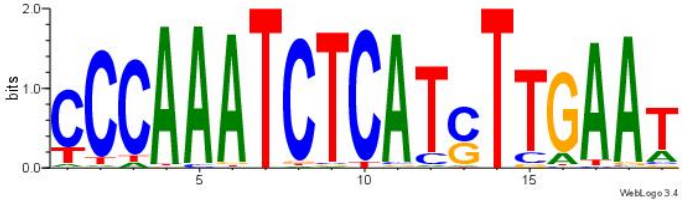

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

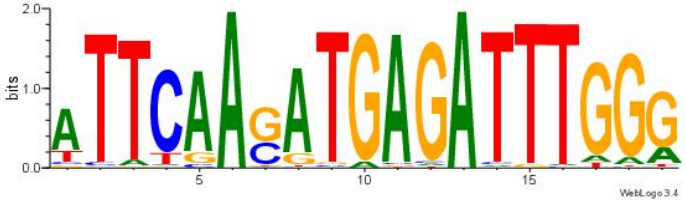

Dataset #: 1
Motif ID: 324
Motif name: Motif 324
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0893994

Alignment:
ACGCACCTGTA
ATGGACCTTG-

Original motif Consensus sequence: ACGCACCTGTA

Reverse complement motif Consensus sequence: TACAGGTGCGT

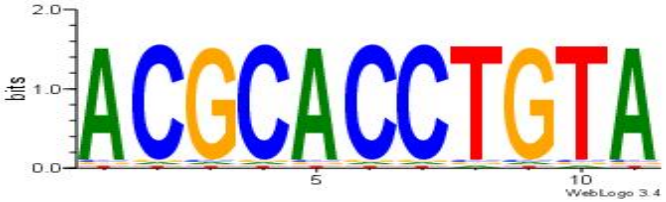

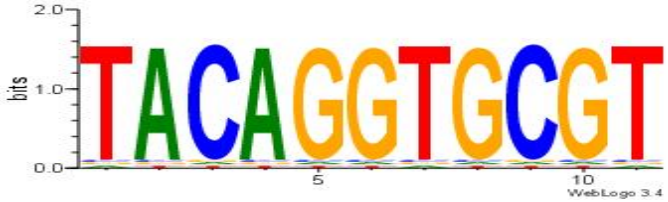

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0894395

Alignment:

```
AAATTAGGCCAATTAATAAC
---CAAGGTCCAT-------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

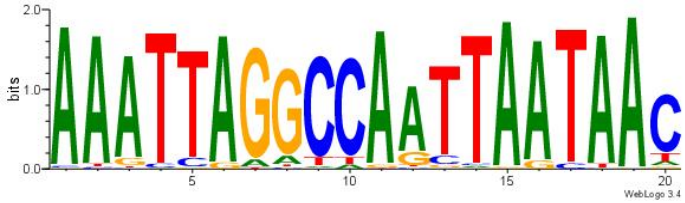

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0904994

Alignment:

```
TTGGAGGTTCTAGCAGGG
ATGGACCTTG--------
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

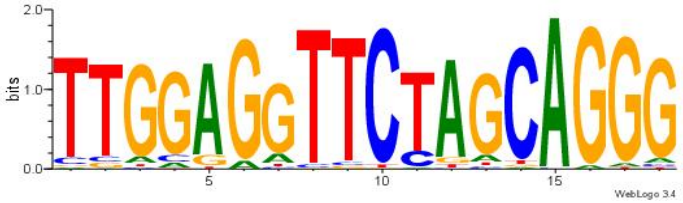

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.091056

Alignment:
CTTGCCCAAGGTCACACAGC
------CAAGGTCCAT----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

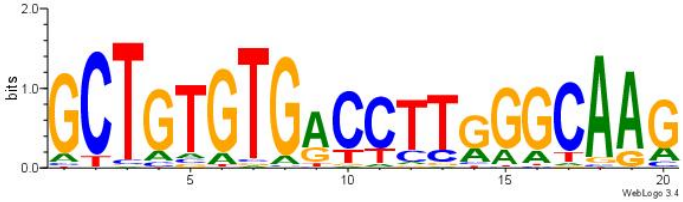

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

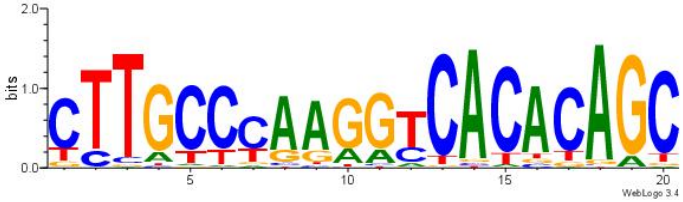

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.09148

Alignment:
ACTGTCTTCCACCTCCACAT
--------CAAGGTCCAT--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

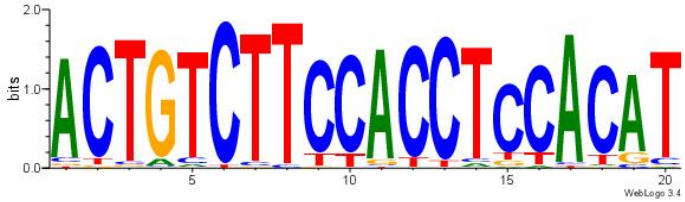

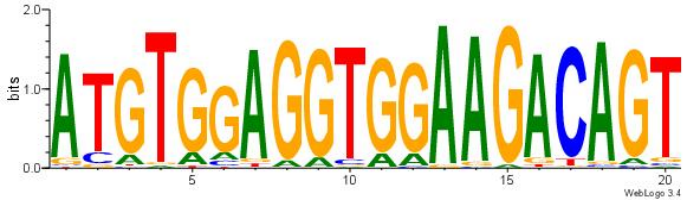

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0917623

Alignment:

```
TGCTCACACAAAGCCTGT
--------CAAGGTCCAT
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

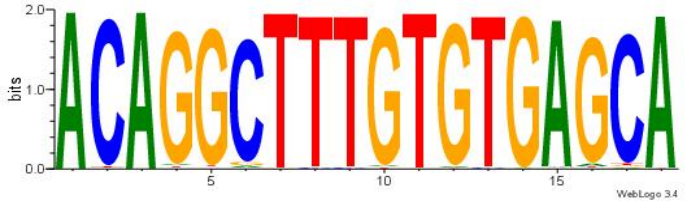

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

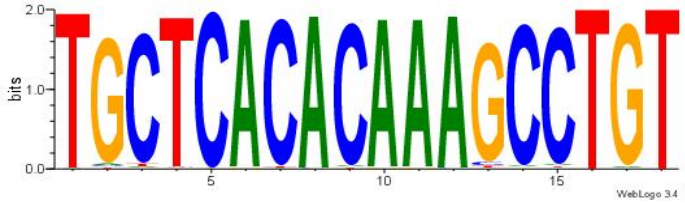

Dataset #:	1

Motif ID:	208
Motif name:	Motif 208
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0917678

Alignment:

```
ATCGCCCTCAC
ATGGACCTTG-
```

Original motif Consensus sequence: GTGAGGGCGAT

Reverse complement motif Consensus sequence: ATCGCCCTCAC

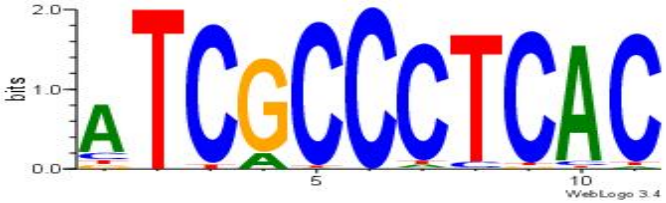

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.091935

Alignment:
CTTGCAGTTTG
ATGGACCTTG-

Original motif Consensus sequence: CAAACTGCAAG

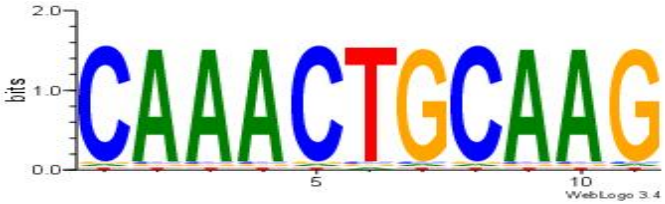

Reverse complement motif Consensus sequence: CTTGCAGTTTG

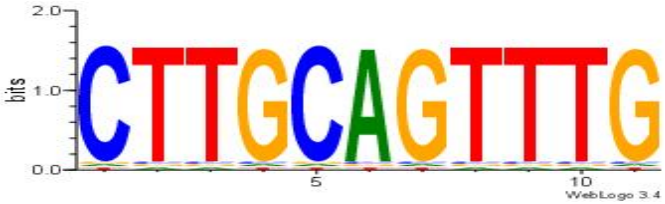

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0920929

Alignment:
CTTGGGTGGTCGATGGGAC
----ATGGACCTTG-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

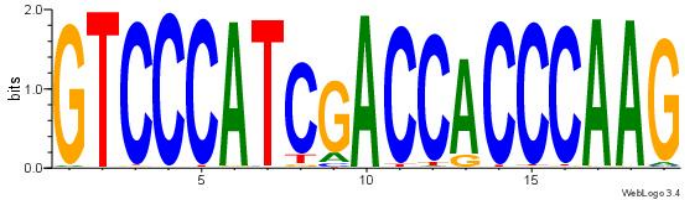

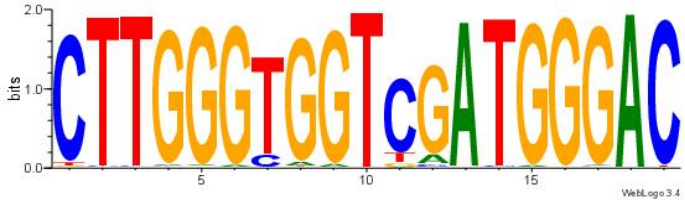

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0922109

Alignment:

```
TTGGTAGGATCCGTGATGCC
----CAAGGTCCAT------
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

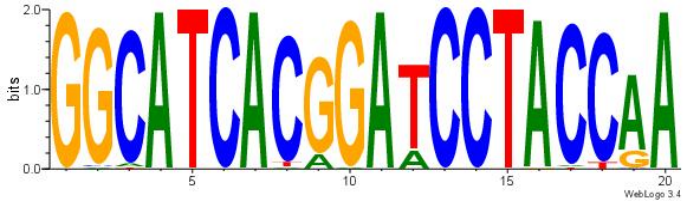

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

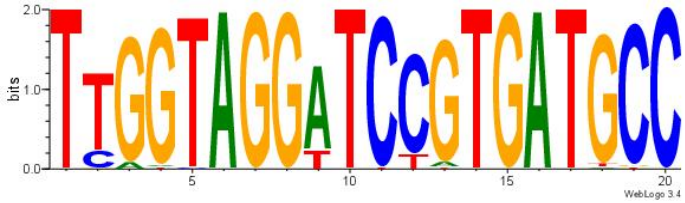

Dataset #: 1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0922678

Alignment:

```
AATGAGTTAAGACTTTG
-------ATGGACCTTG
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

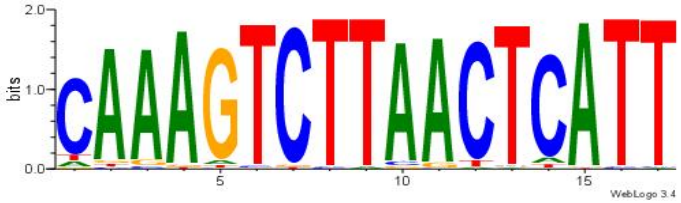

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0924212

Alignment:
TTACAGGCTCATA
--CAAGGTCCAT-

Original motif Consensus sequence: TATGAGCCTGTAA

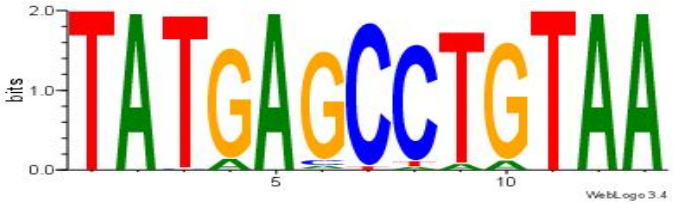

Reverse complement motif Consensus sequence: TTACAGGCTCATA

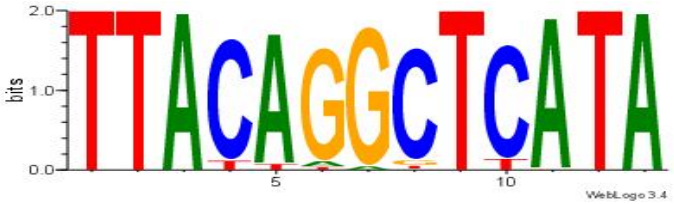

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0927274

Alignment:
CCCACGCCCACCCGGAACT
-CAAGGTCCAT--------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

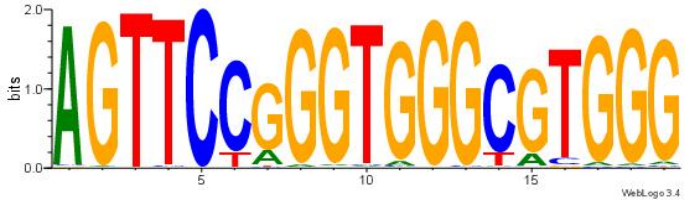

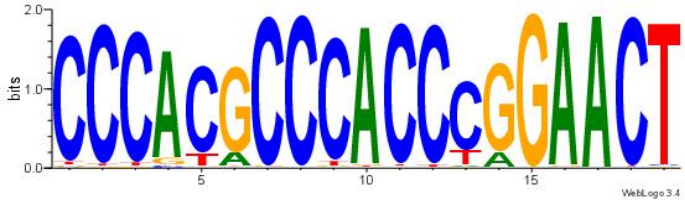

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0938233

Alignment:

```
AGGAACAGCTCCRGTCTAC
-----CAAGGTCCAT----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

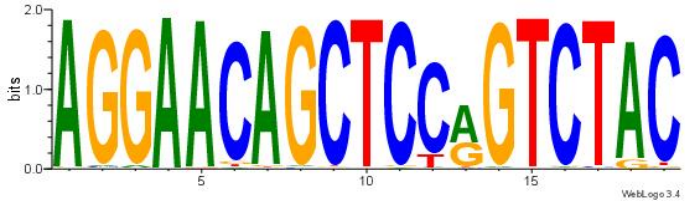

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

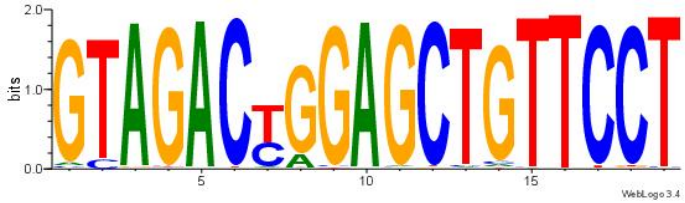

Dataset #:	1

Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0943656

Alignment:

```
GGTCAGGATCATCAATAT
--CAAGGTCCAT------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

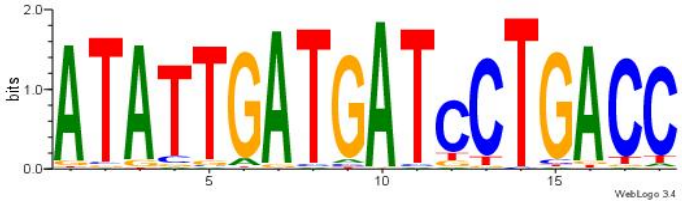

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

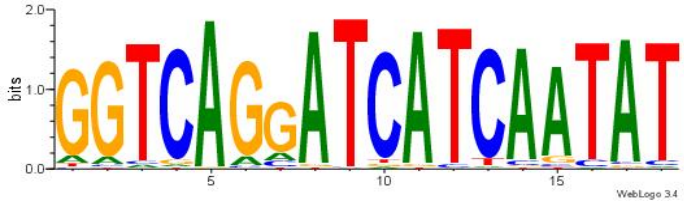

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0944114

Alignment:
CCCAAATCCTATAAAA
--CAAGGTCCAT----

Original motif Consensus sequence: CCCAAATCCTATAAAA

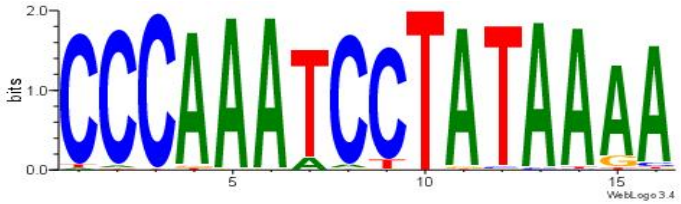

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

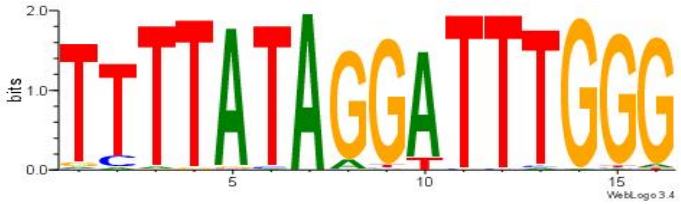

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.094493

Alignment:
CCGCTGCACTGTGGGAGCCC
---ATGGACCTTG-------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

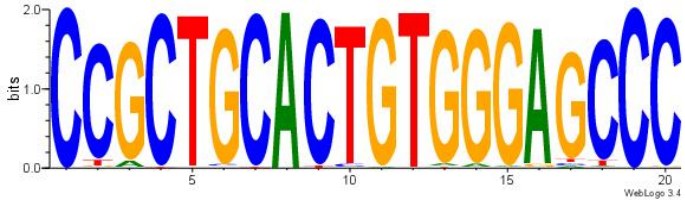

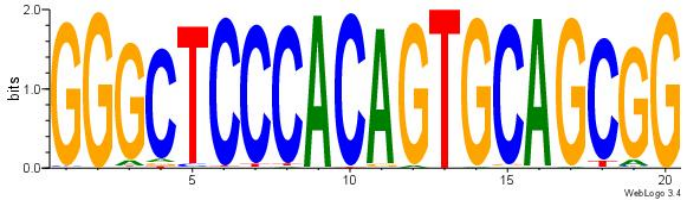

Dataset #: 1 Motif ID: 163 Motif name: Motif 163

Original motif Consensus sequence: CCTCCGTGGGCTCC

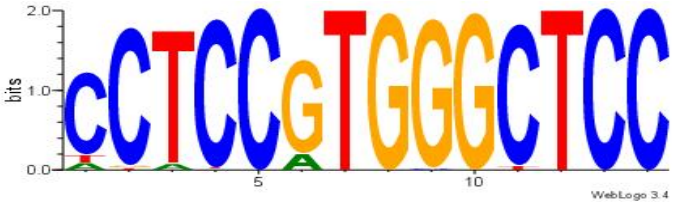

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

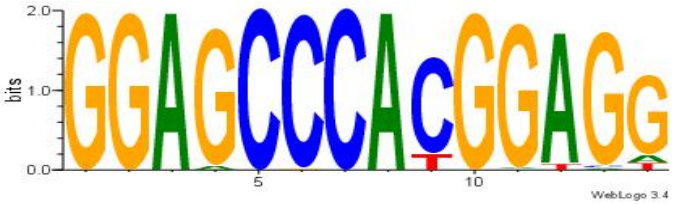

Best Matches for Motif ID 163 (Highest to Lowest)

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0750229

Alignment:

```
CCACCACAGCTCAAGGAGGC
-----GGAGCCCACGGAGG-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

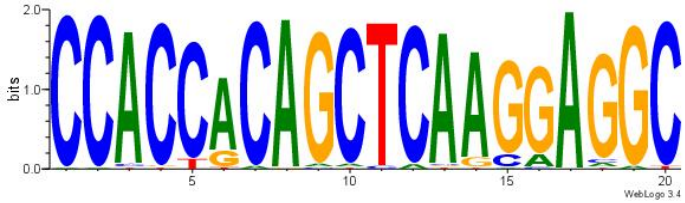

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

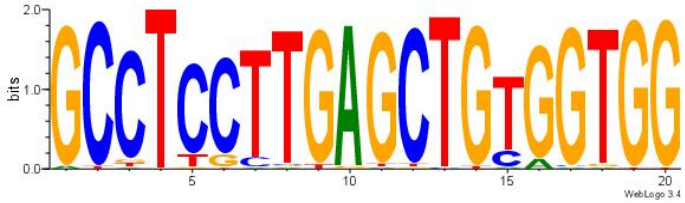

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0899923

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-GGAGCCCACGGAGG-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

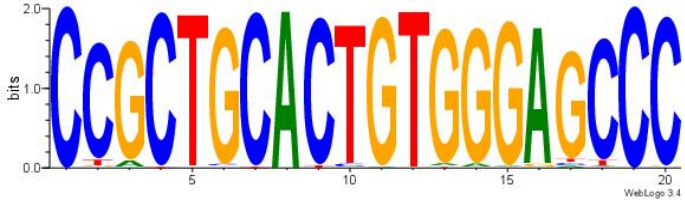

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

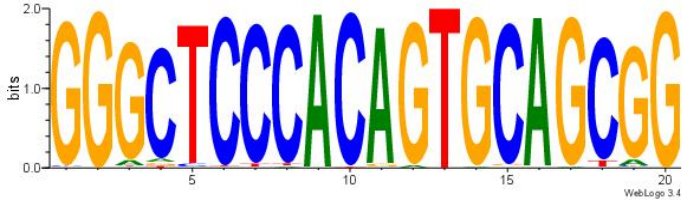

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.102654

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-GGAGCCCACGGAGG-----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

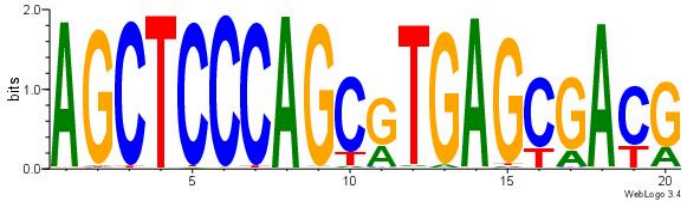

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

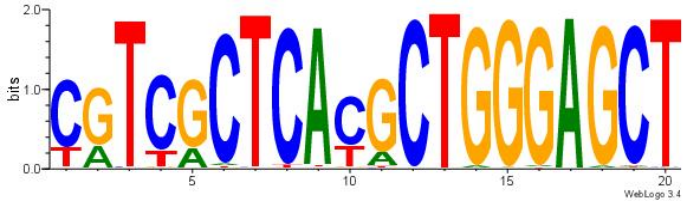

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.104798

Alignment:
GGCACTGCTGGGGGACCCAG
---CCTCCGTGGGCTCC---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

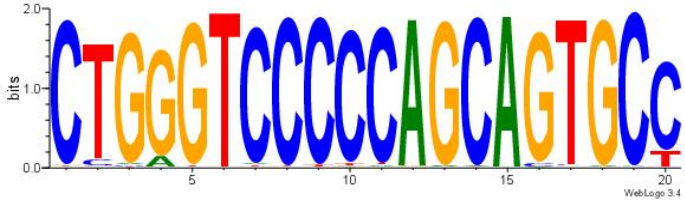

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

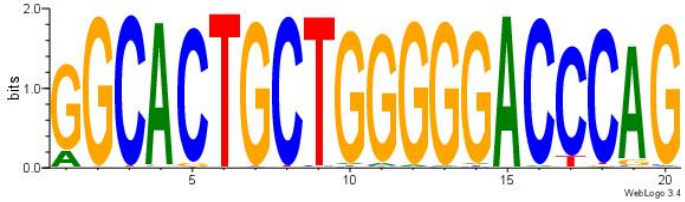

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.105867

Alignment:
GCCTCTCCCTCCACACCTCC
---CCTCCGTGGGCTCC---

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

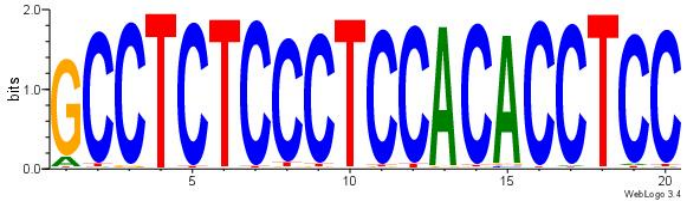

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

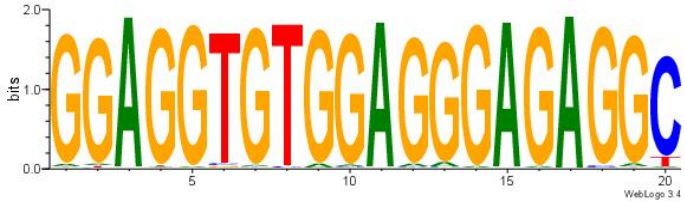

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.108058

Alignment:

```
TGTCCATGTGTTCTC
CCTCCGTGGGCTCC-
```

Original motif Consensus sequence: GAGAACACATGGACA

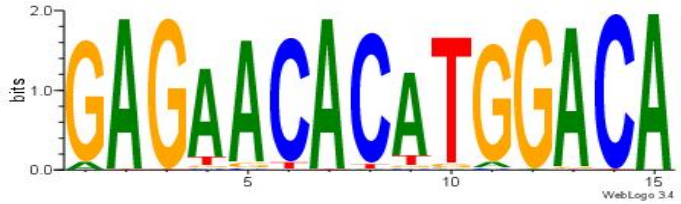

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

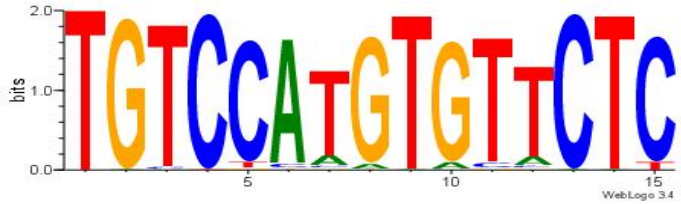

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.108156

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
CCTCCGTGGGCTCC------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

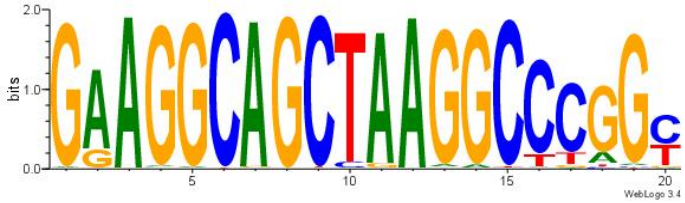

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

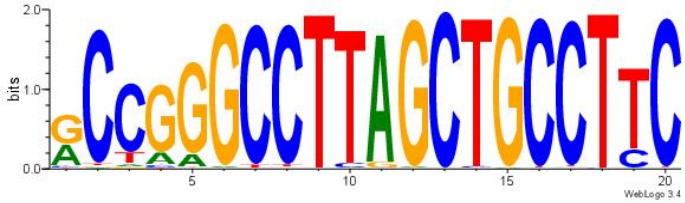

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.109105

Alignment:
GTTGGCCAGGCTGGTCT
GGAGCCCACGGAGG---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

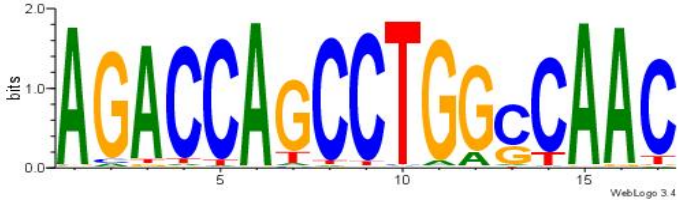

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

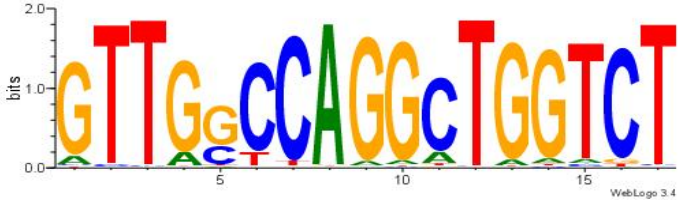

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.109128

Alignment:
AGAGCCAAATCATGARTGAA
GGAGCCCACGGAGG------

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

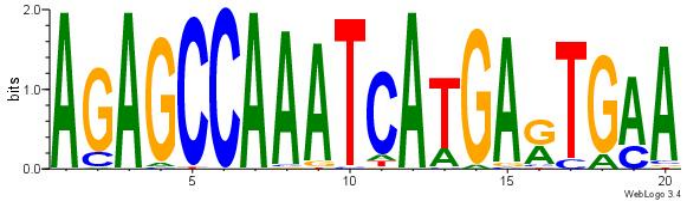

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

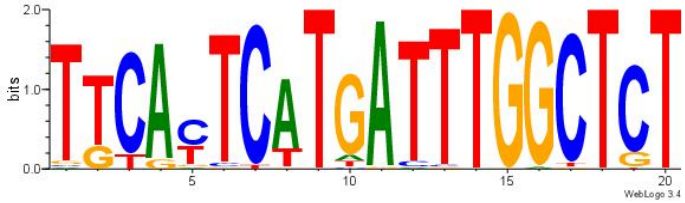

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109177

Alignment:

```
HGCTCCTGTGSKCCC
-CCTCCGTGGGCTCC
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

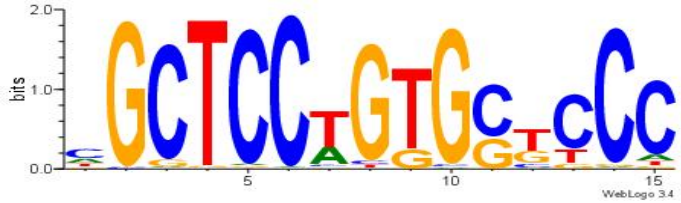

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.109312

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----GGAGCCCACGGAGG
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

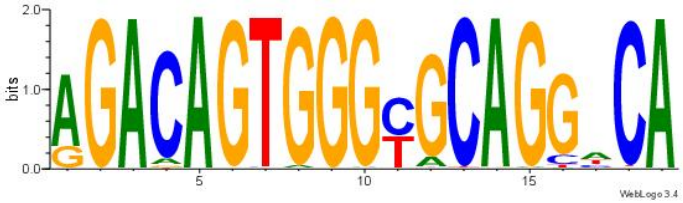

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

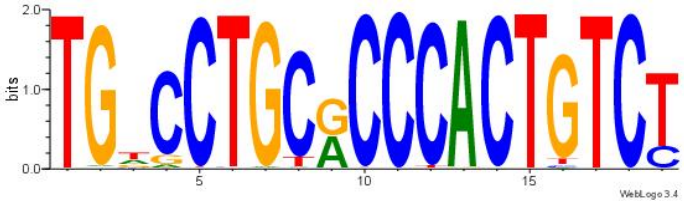

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.109396

Alignment:
GGCCMGCAGGGCKGGC
GGAGCCCACGGAGG--

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

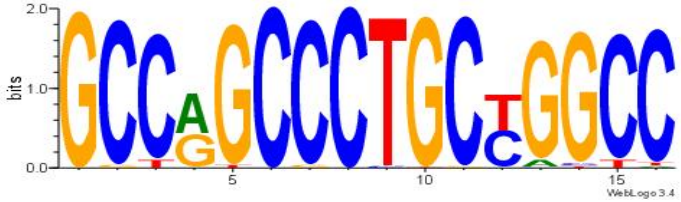

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

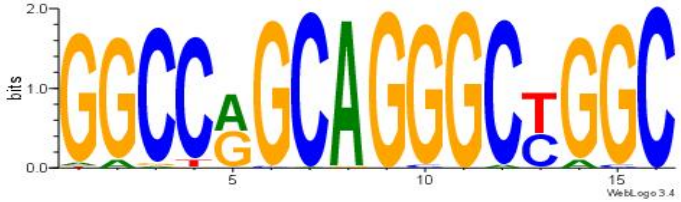

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.110906

Alignment:
GCTGGAGTGCAGTGGCRYGA
---GGAGCCCACGGAGG---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

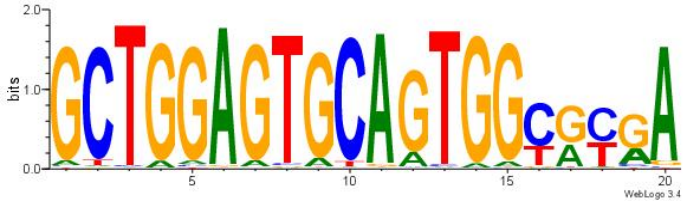

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

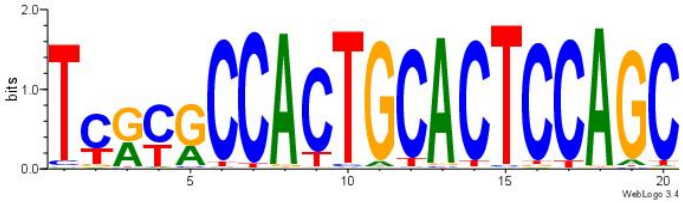

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.11184

Alignment:

```
GGATCCACTGGGTGAAGCCA
------GGAGCCCACGGAGG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

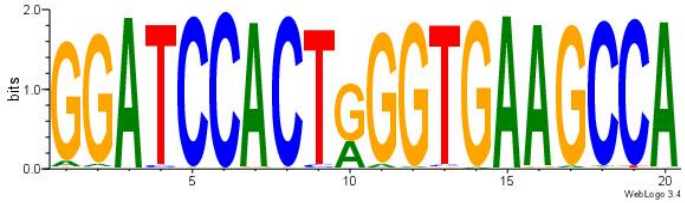

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

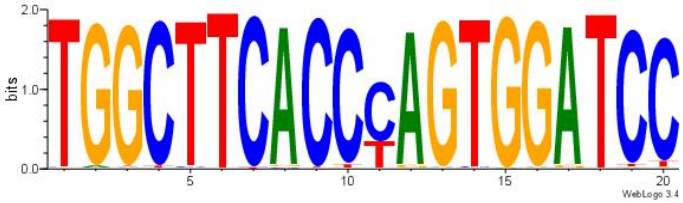

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.112201

Alignment:

```
VCCDCCTCCKCCTCCTC
--CCTCCGTGGGCTCC-
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

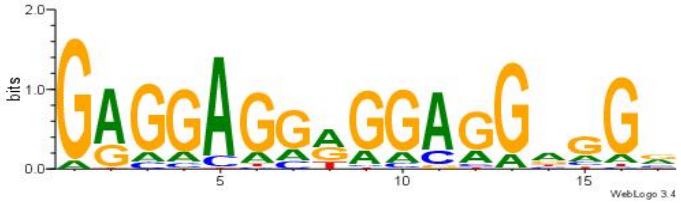

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

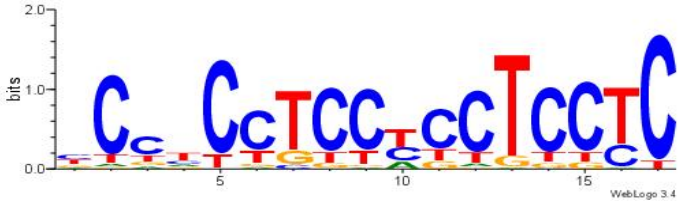

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.112436

Alignment:
AGGTCCTTCAGGAGGTATTC
-GGAGCCCACGGAGG-----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

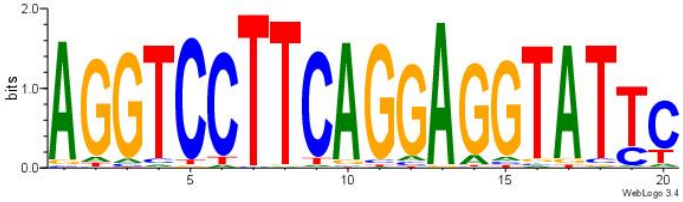

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

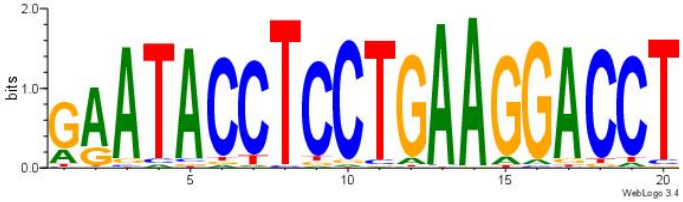

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.11318

Alignment:
AGAGCTCTGGCTGGCATCT
GGAGCCCACGGAGG-----

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

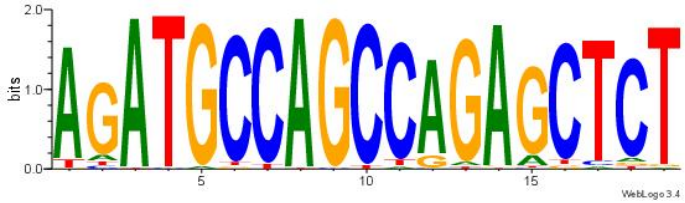

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

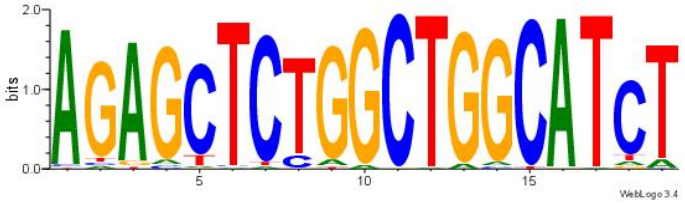

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.113208

Alignment:

```
GAAAGGGAACTCCCTGACCC
-GGAGCCCACGGAGG-----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

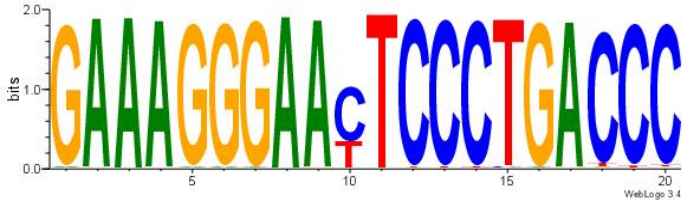

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

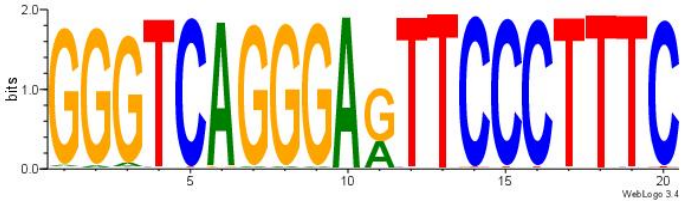

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.113222

Alignment:

```
MGTGTGATGTCTCCCCC
CCTCCGTGGGCTCC---
```

Original motif Consensus sequence: GGGGGAGACATCACACR

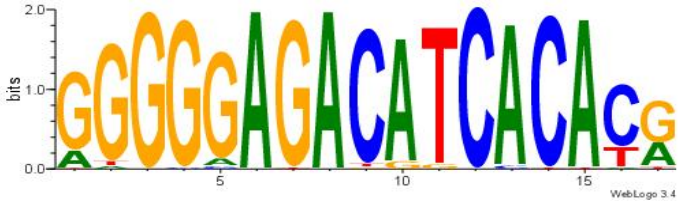

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

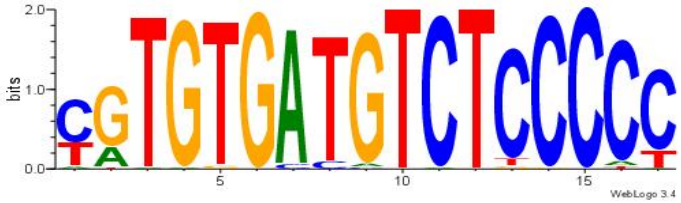

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.114429

Alignment:
CTCCTGCCTCAGCCTCCCRA
---CCTCCGTGGGCTCC---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

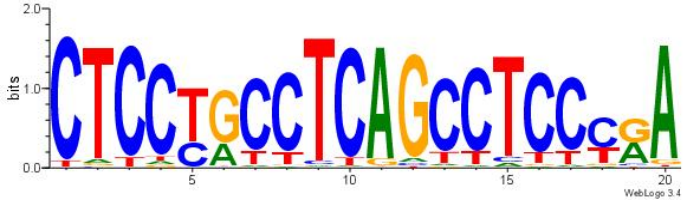

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

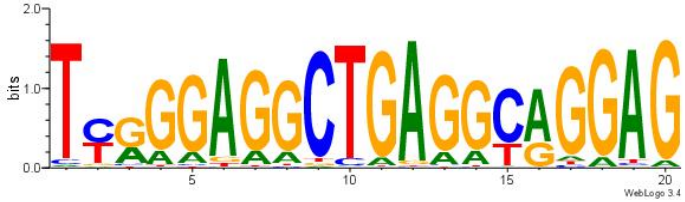

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.114567

Alignment:
CGGCGCTGMGCTCGATTTCT
------CCTCCGTGGGCTCC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

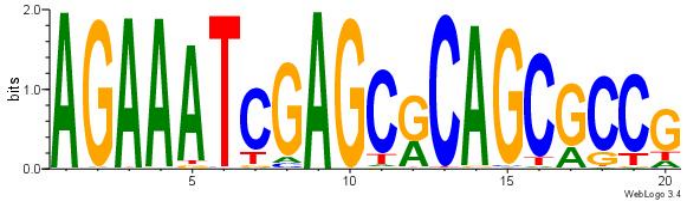

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

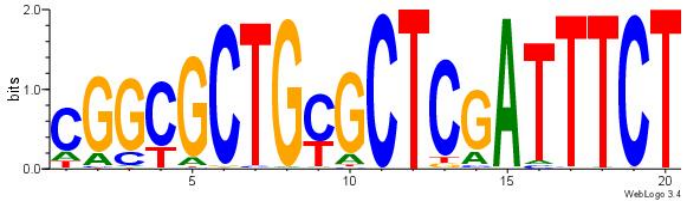

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.115979

Alignment:

```
GCTCCWGTGYGKCC
CCTCCGTGGGCTCC
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

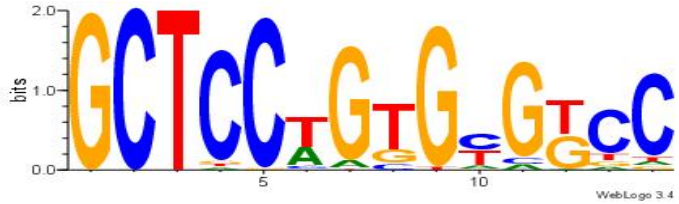

Reverse complement motif Consensus sequence: GGRCKCACWGGA

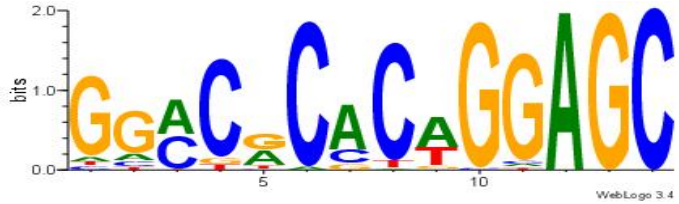

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.118778

Alignment:

```
TTMGTCCCAGAGGGGCACC
-----CCTCCGTGGGCTCC
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

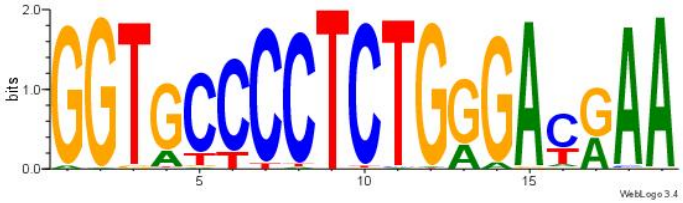

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

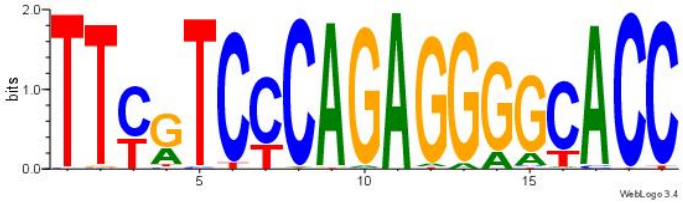

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.120714

Alignment:
ACAGGCTGTCCCAGGATTC
----GGAGCCCACGGAGG-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

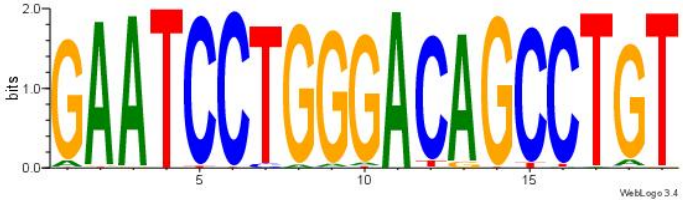

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

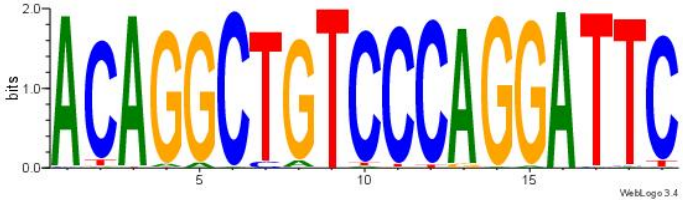

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.121562

Alignment:
GTGTCCCCTTCCTCCC
-CCTCCGTGGGCTCC-

Original motif Consensus sequence: GGGAGGAAGGGGACAC

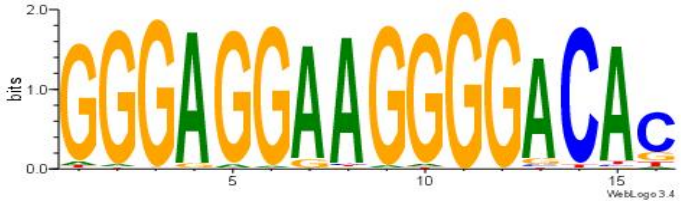

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

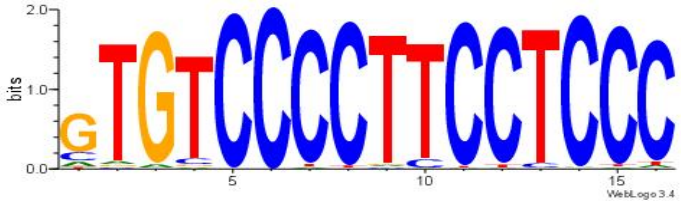

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.121827

Alignment:

```
AAGGAACAAACTCCRGACAC
--GGAGCCCACGGAGG----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

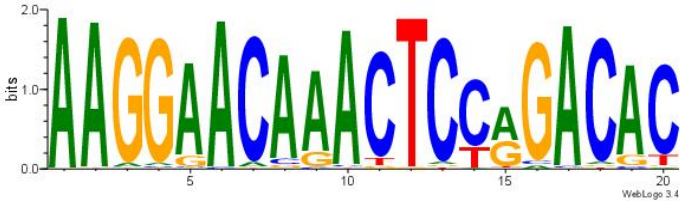

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

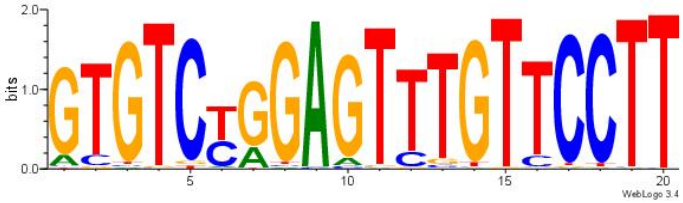

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.121832

Alignment:

```
ACTCCCTAGTGAGATGAACC
---CCTCCGTGGGCTCC---
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

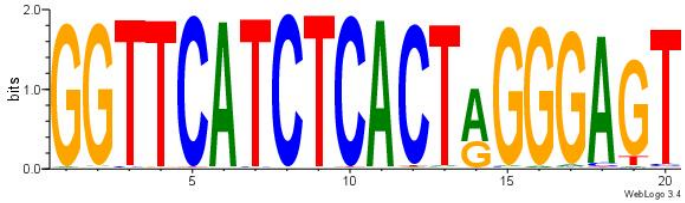

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

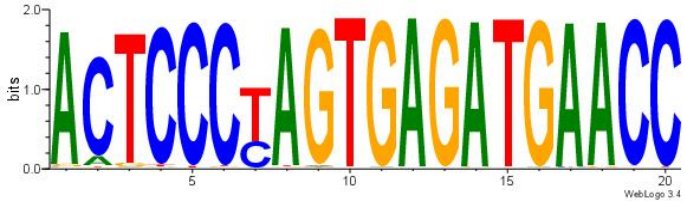

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.121995

Alignment:
AGGAGCCCCTCHGCCCR
--GGAGCCCACGGAGG-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

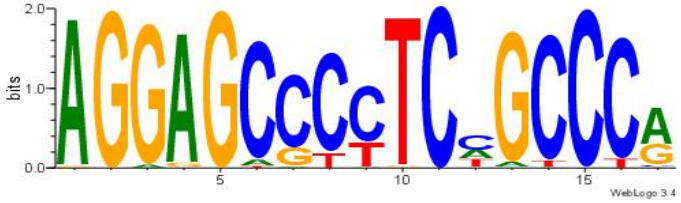

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.122089

Alignment:
CACCAGACTCAGGAGCCCAG
--GGAGCCCACGGAGG----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

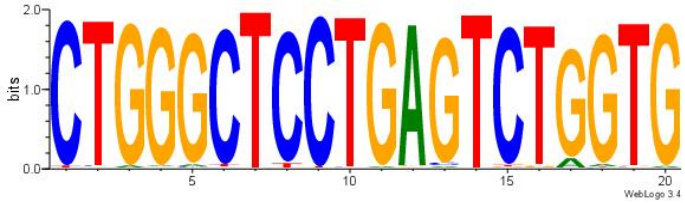

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

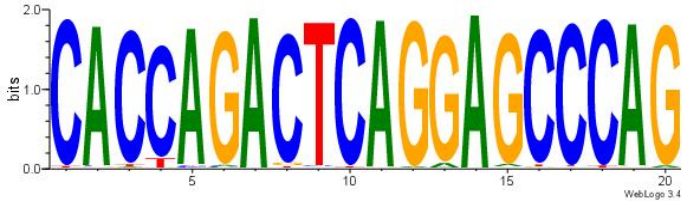

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.122285

Alignment:

```
KGAGAACAGTAGGG
GGAGCCCACGGAGG
```

Original motif Consensus sequence: CCCTACTGTTCTCY

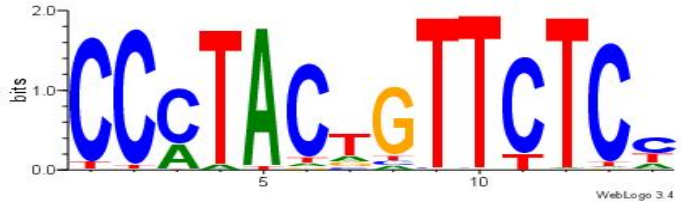

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

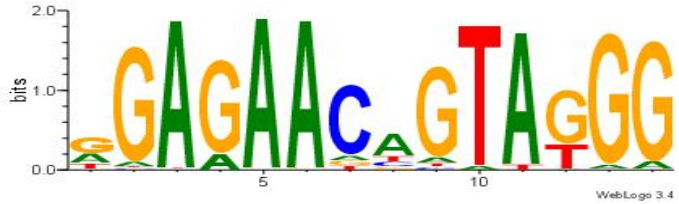

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.122704

Alignment:

```
GGCTGCGGAGGGTGTA
-GGAGCCCACGGAGG-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

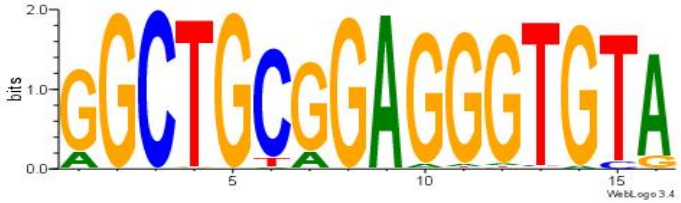

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

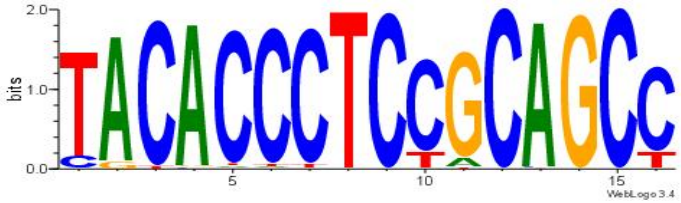

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7

Number of overlap: 14
Similarity score: 0.122731

Alignment:
ARCTCCTGKSCTCAAGKGAT
------CCTCCGTGGGCTCC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

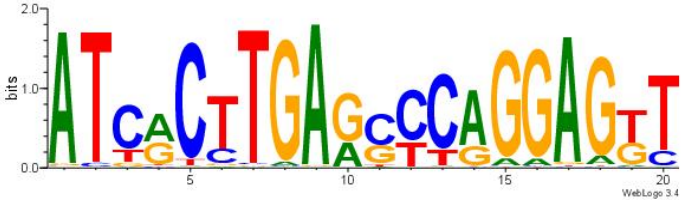

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

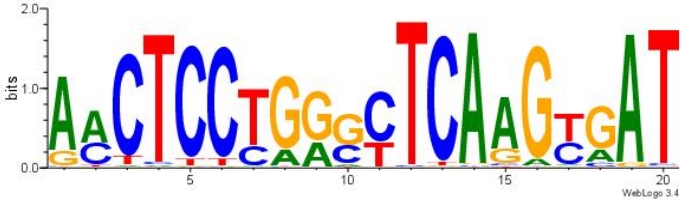

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.122837

Alignment:
GTACCTCAGWTGGAAATG
-CCTCCGTGGGCTCC---

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

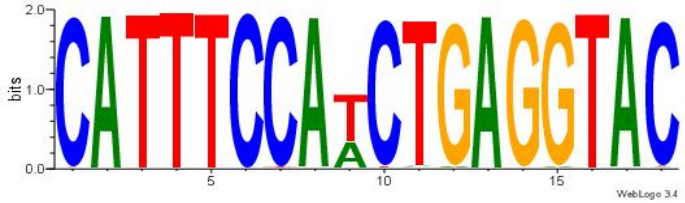

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

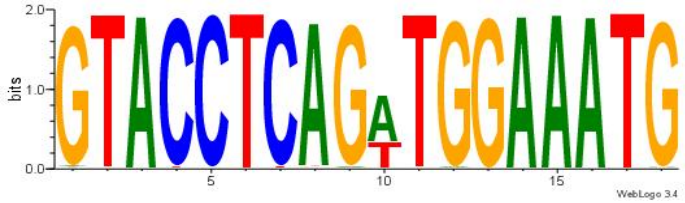

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.123387

Alignment:

```
AGTTCCGGGTGGGCGTGGG
---CCTCCGTGGGCTCC--
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

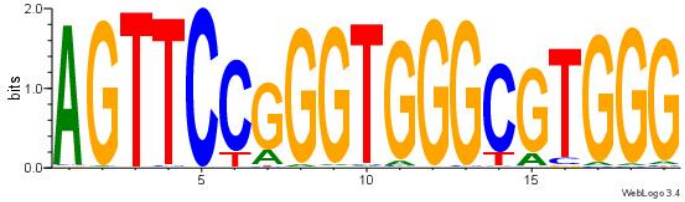

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

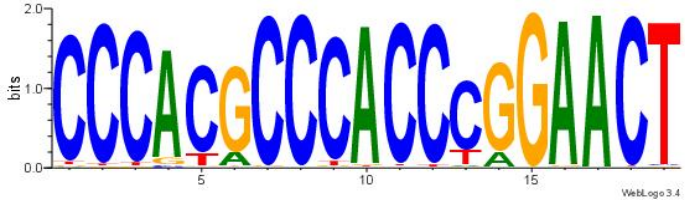

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.123728

Alignment:

```
ACATCCCAGACGATGGGCG
GGAGCCCACGGAGG-----
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

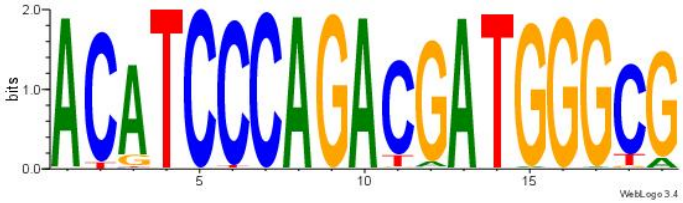

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

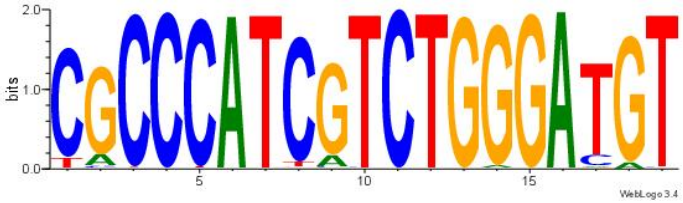

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 14
Similarity score: 0.123728

Alignment:
GGTGGAGCTGCCTGCCAGTC
---GGAGCCCACGGAGG---

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

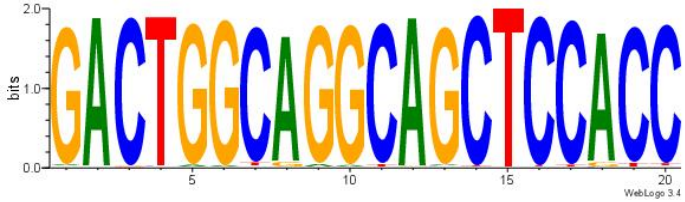

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

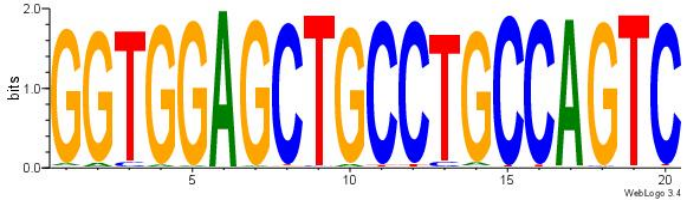

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.123865

Alignment:
GCTGTGTGACCTTGGGCAAG
CCTCCGTGGGCTCC------

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

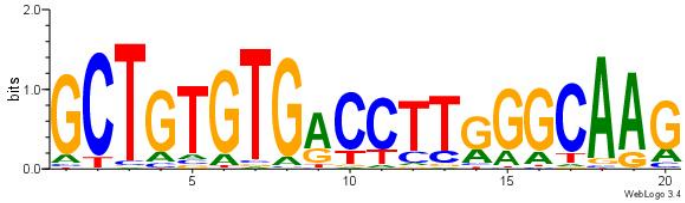

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

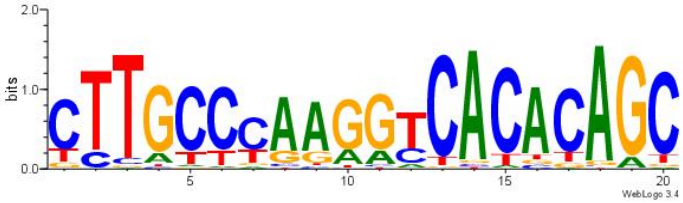

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.124827

Alignment:

```
GCTGGCCCKGGTGCTAAGC
GGAGCCCACGGAGG-----
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

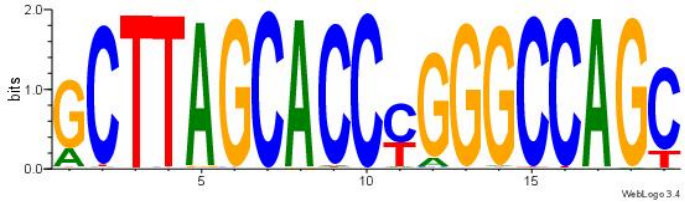

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

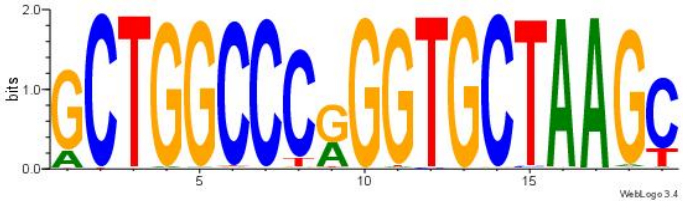

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.12506

Alignment:

```
CATCTGGCAGCCCA
CCTCCGTGGGCTCC
```

Original motif Consensus sequence: CATCTGGCAGCCCA

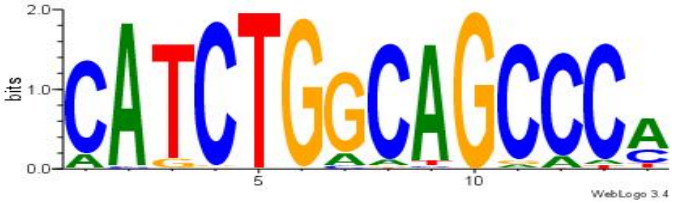

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

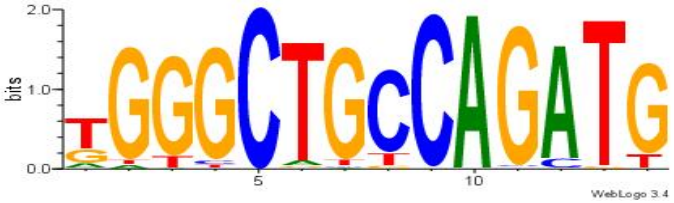

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.125064

Alignment:
GCTGGCCCGCAAGCGCCGCG
-----CCTCCGTGGGCTCC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

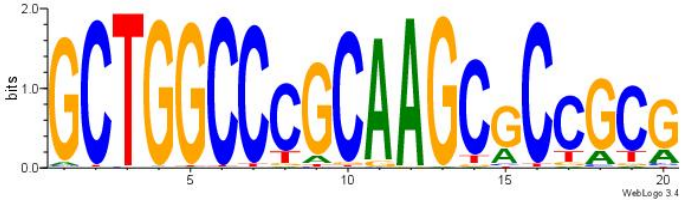

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

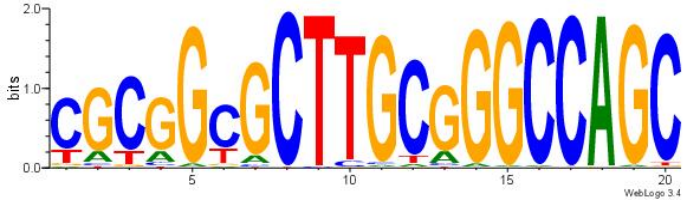

Dataset #: 1
Motif ID: 128
Motif name: Motif 128
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.125216

Alignment:
CMGCTCCGAGTGCGG
-GGAGCCCACGGAGG

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

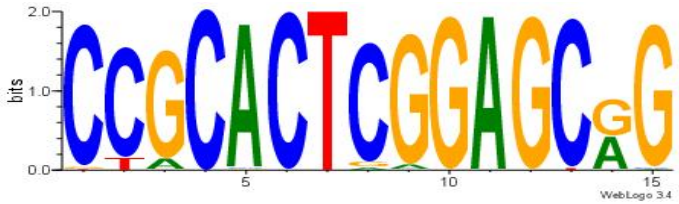

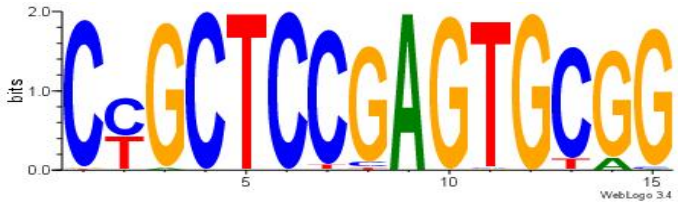

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.125541

Alignment:

```
CATCTGGAGCCCCA
CCTCCGTGGGCTCC
```

Original motif Consensus sequence: CATCTGGAGCCCCA

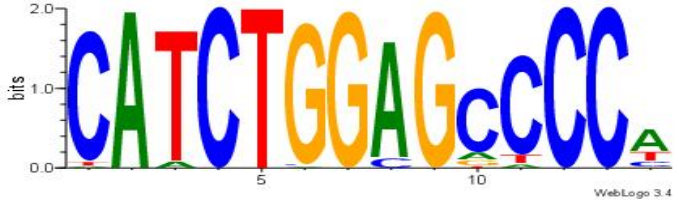

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

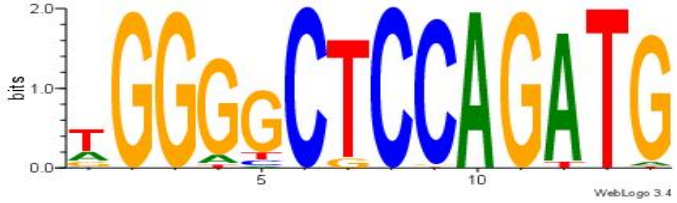

Dataset #:	1
Motif ID:	95

Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.125707

Alignment:

```
CACCTCCCAGACMGGGT
-GGAGCCCACGGAGG--
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

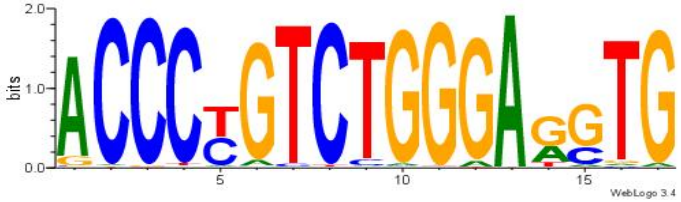

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

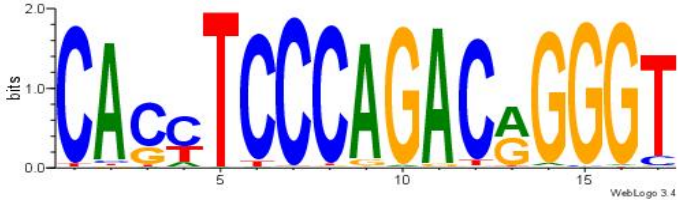

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.125714

Alignment:
CTGTTTGCCTGGGTATCA
---CCTCCGTGGGCTCC-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

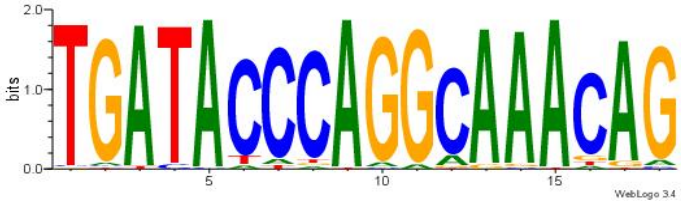

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

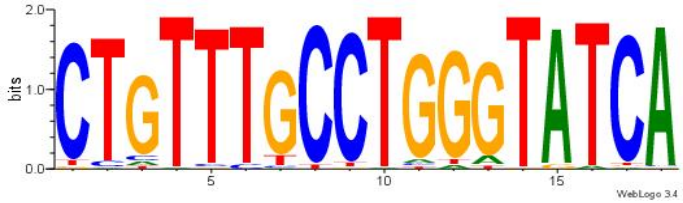

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.125844

Alignment:
TGGAGAACCTTTATGTCTAG
-GGAGCCCACGGAGG-----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

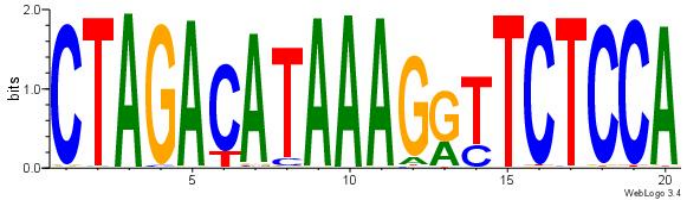

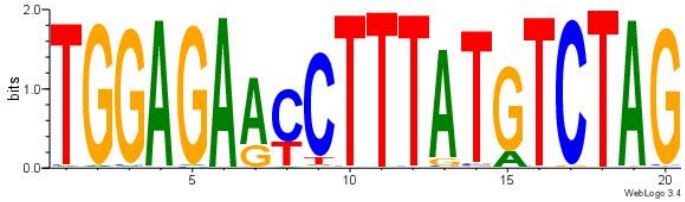

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.125885

Alignment:

```
CCGCGGGGCAGGGCTCG
CCTCCGTGGGCTCC---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

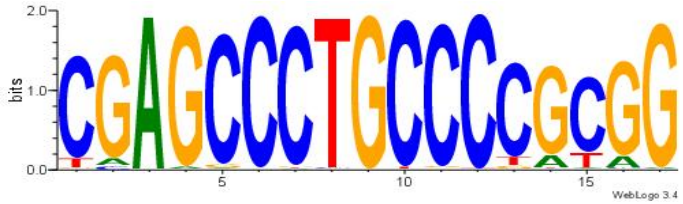

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

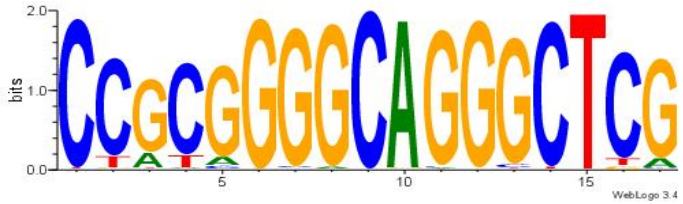

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.126068

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-GGAGCCCACGGAGG-----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

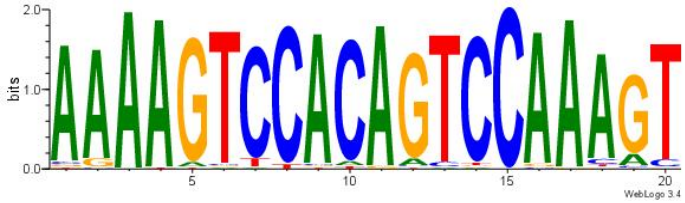

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

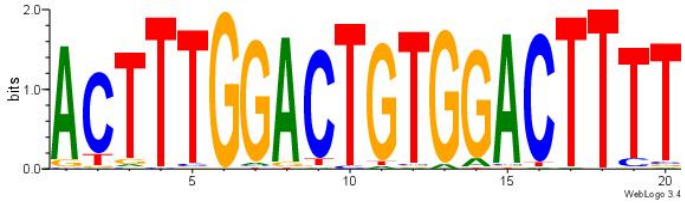

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.126203

Alignment:
TGCTCACACAAAGCCTGT
GGAGCCCACGGAGG----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

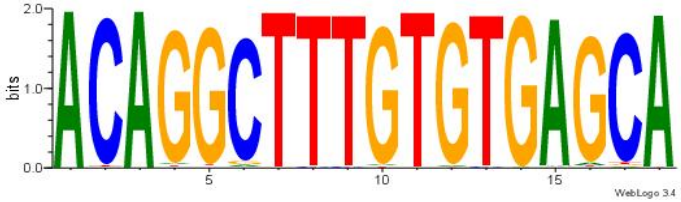

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

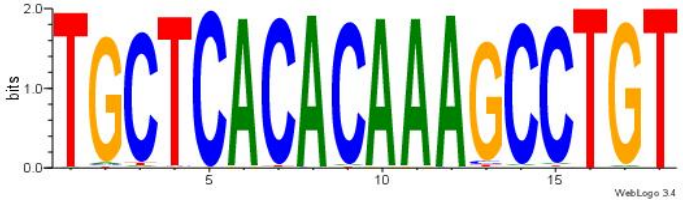

Dataset #: 1
Motif ID: 39
Motif name: Motif 39
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.126266

Alignment:
AGGCGGCTGGGAGG
GGAGCCCACGGAGG

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

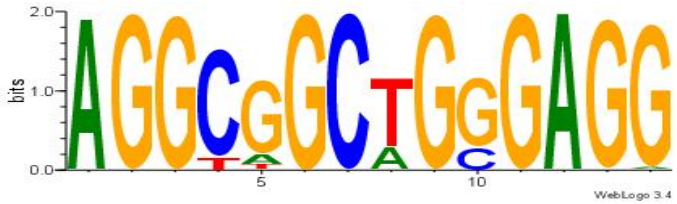

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.126627

Alignment:

```
CTGGGCRACAGAGYRAGACY
------GGAGCCCACGGAGG
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

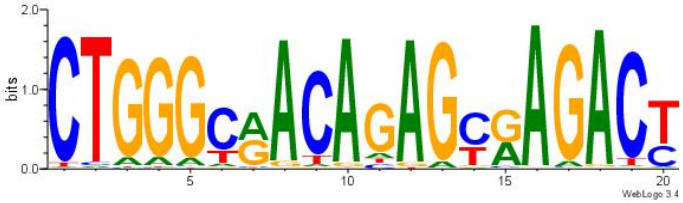

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

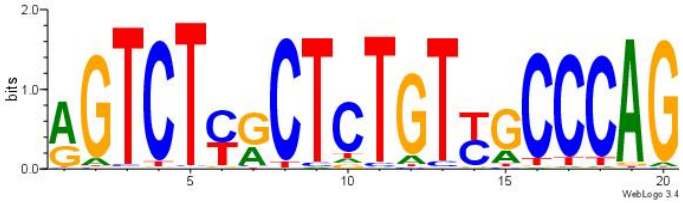

Dataset #: 1 Motif ID: 164 Motif name: Motif 164

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

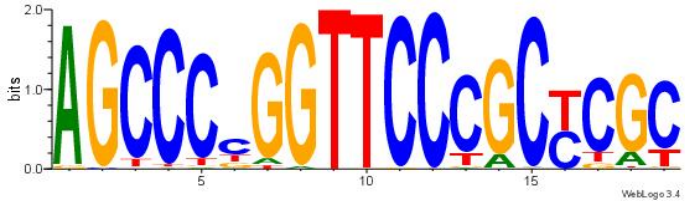

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

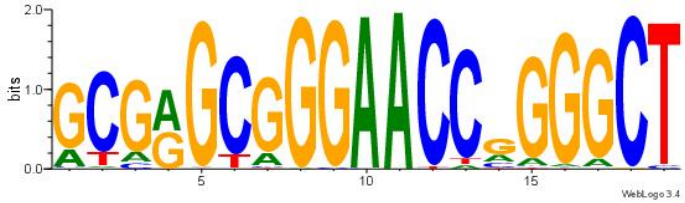

Best Matches for Motif ID 164 (Highest to Lowest)

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.102596

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
AGCCCCGGTTCCCGCYCGC-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

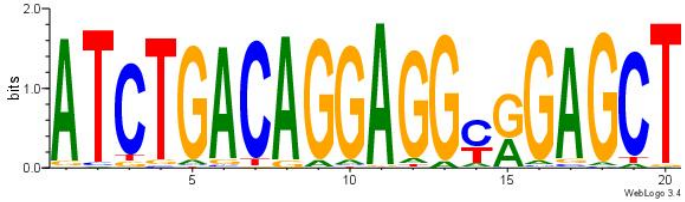

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

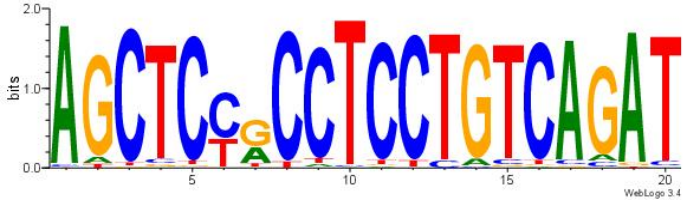

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.111018

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

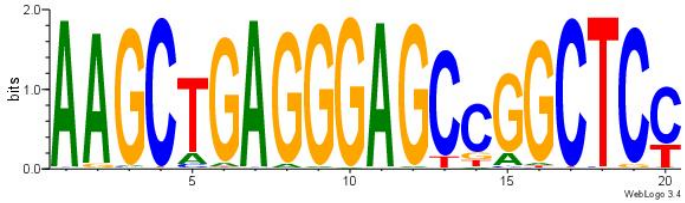

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

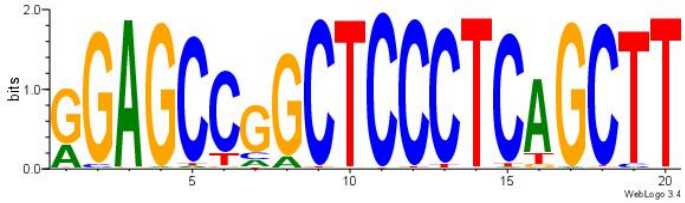

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number: 1
Number of overlap: 19
Similarity score: 0.112548

Alignment:
KKCACCTTGATCTTGGACTT
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

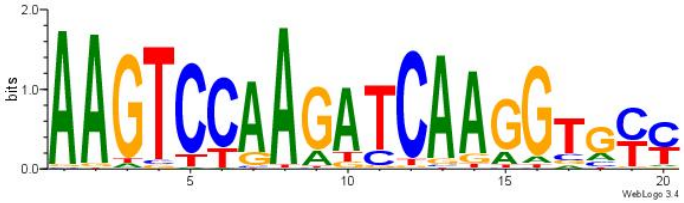

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

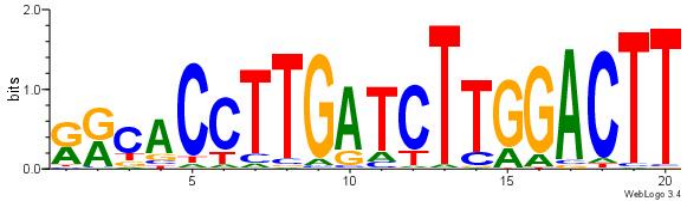

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.112947

Alignment:
AGCCYCTGGYAACCAYYAWT
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

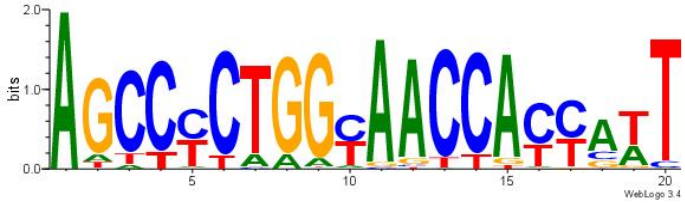

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

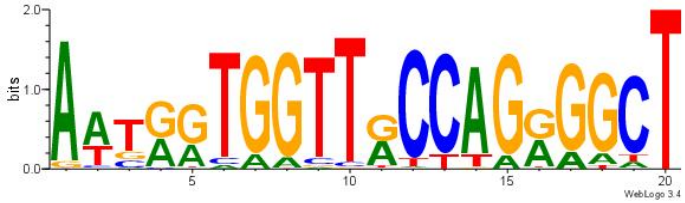

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.119454

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-GCGMGCGGGAACCGGGGCT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

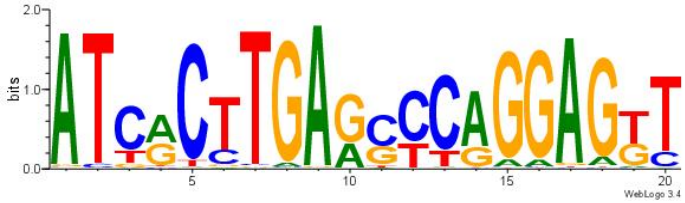

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

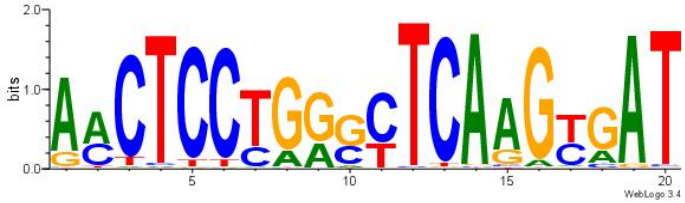

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.12031

Alignment:
AGGAACAGCTCCRGTCTAC
AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

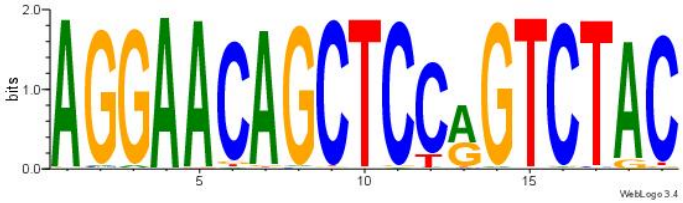

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

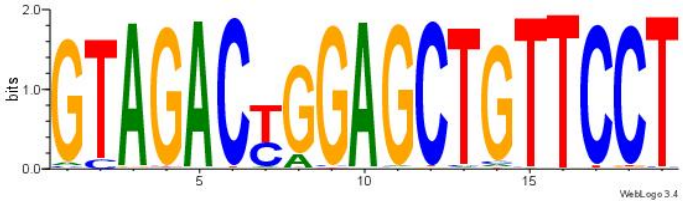

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.120553

Alignment:
GCTGGAGTGCAGTGGCRYGA
-GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

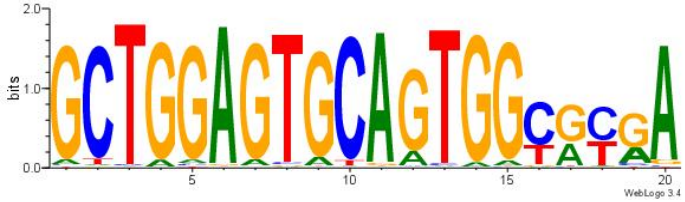

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

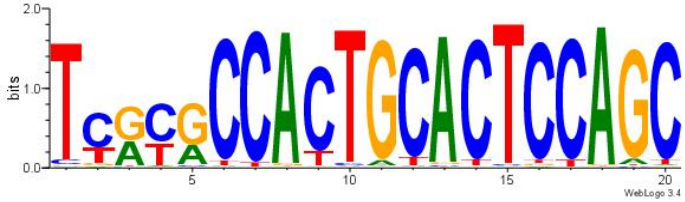

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.121966

Alignment:
GCTGGCCCGCAAGCGCCGCG
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

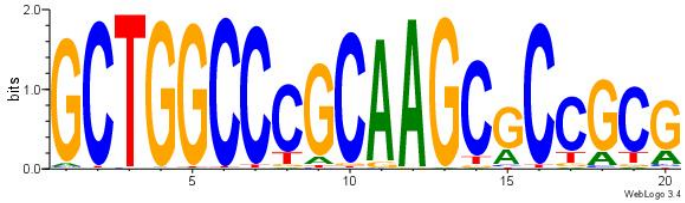

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

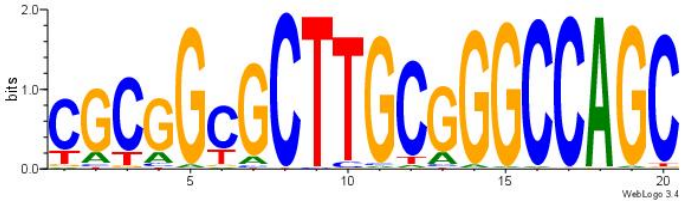

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.122247

Alignment:

```
AGGAGCGCCTCTKCCCGGC
AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

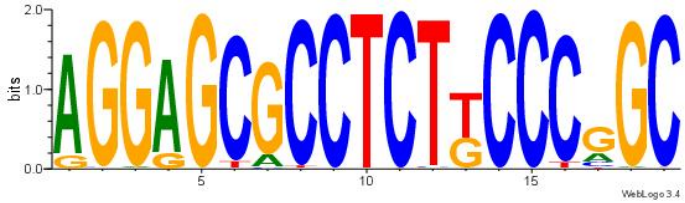

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

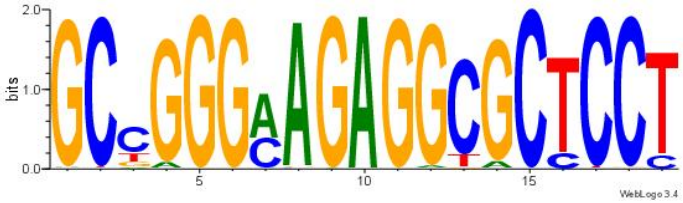

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.122704

Alignment:

AGGCTGTTTTACAGTTAAC
AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

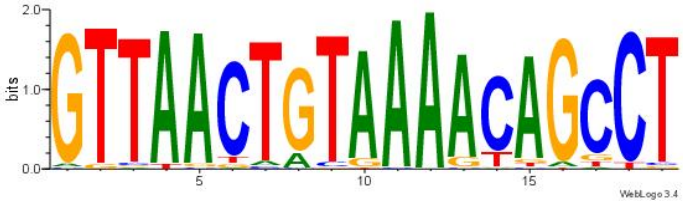

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

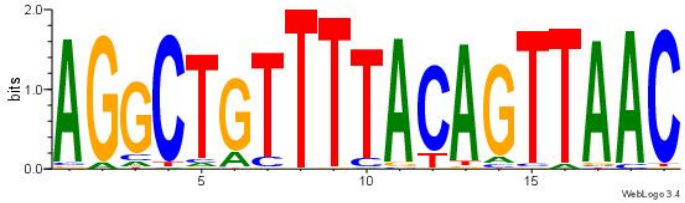

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.124652

Alignment:
AGGCCCCAGTGTSTGTTGTT
-AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

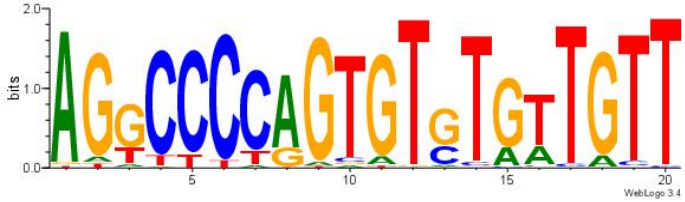

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

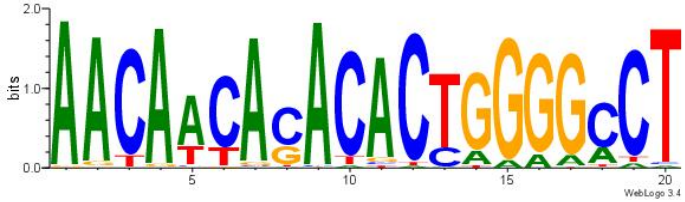

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.126649

Alignment:
GACTGGCAGGCAGCTCCACC
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

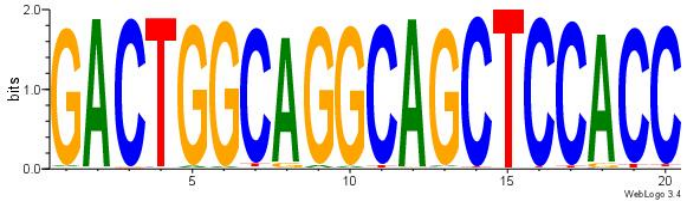

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

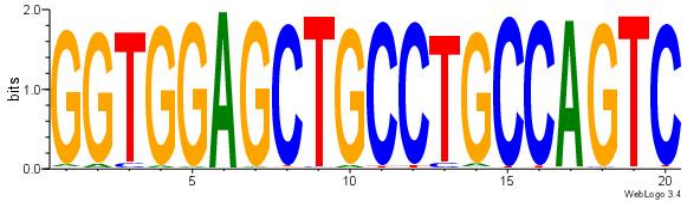

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.126897

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GCGMGCGGGAACCGGGGCT-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

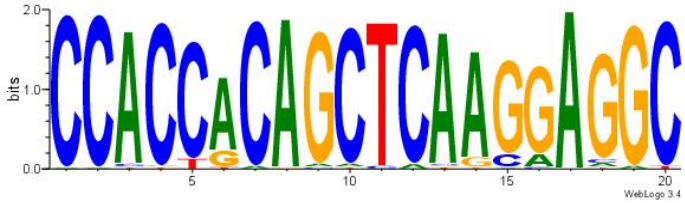

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

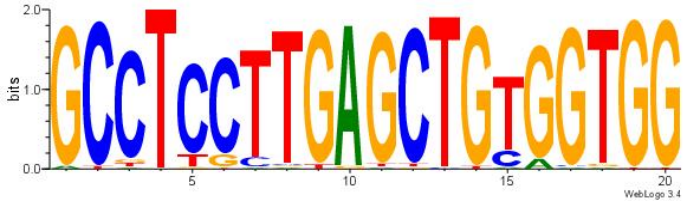

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.1275

Alignment:
GGGAGGTGTCTCCCAGTCAG
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

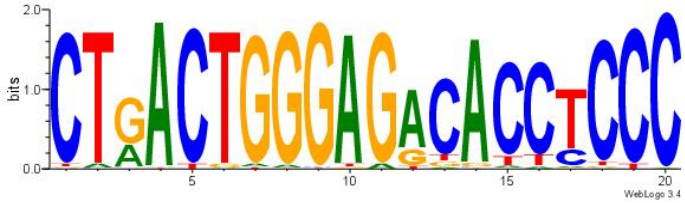

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

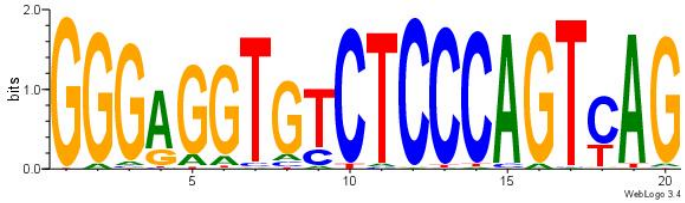

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.128547

Alignment:
TTCAMTCATGATTTGGCTCT
-GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

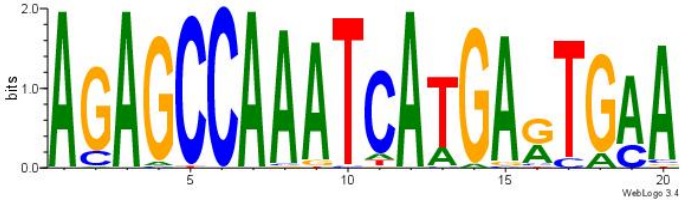

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

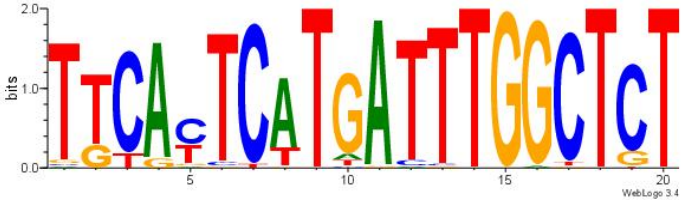

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.128689

Alignment:
GTGGCCCTCTTCTCACAGCT
-AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

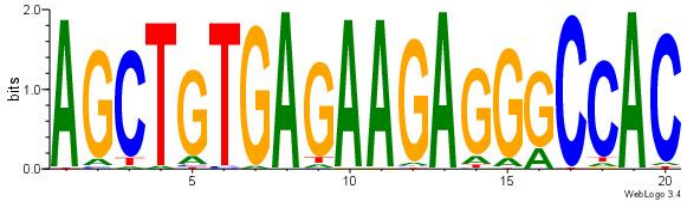

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

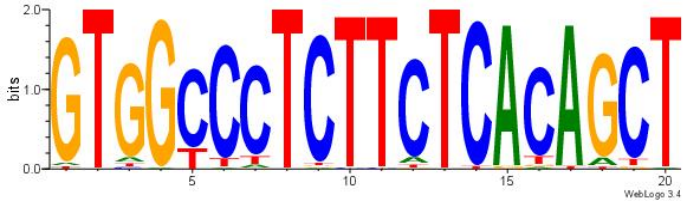

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128748

Alignment:

```
AGGAGRCMCTCTGCCTGGC
AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

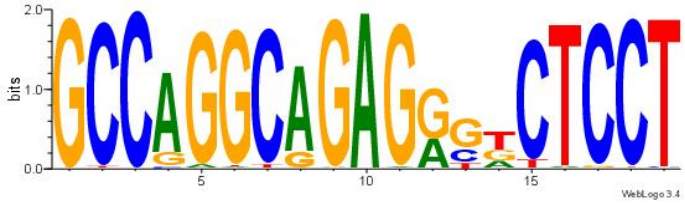

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

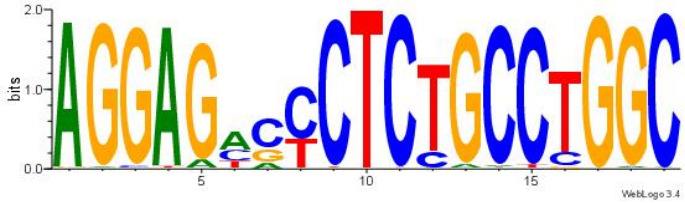

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.128843

Alignment:
GAGAGAGAGAGAGAGAGAGA
-GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

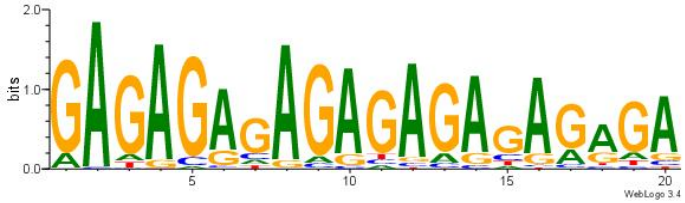

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

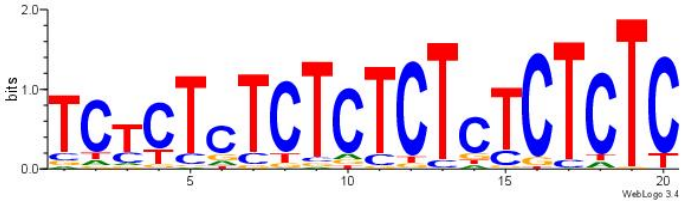

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.12896

Alignment:
ACCGAGMKMGCAGCTTCGGG
-GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

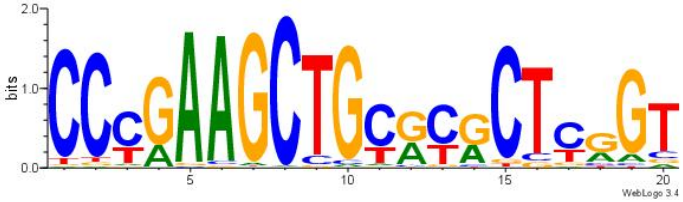

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

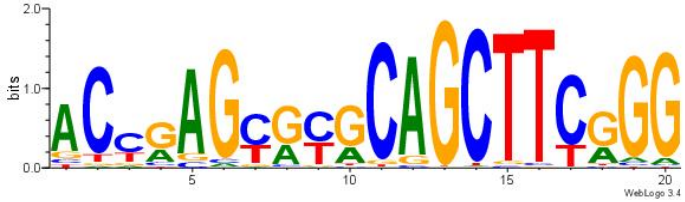

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.131171

Alignment:
GGGGGCTGACCCCCCCACC
GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

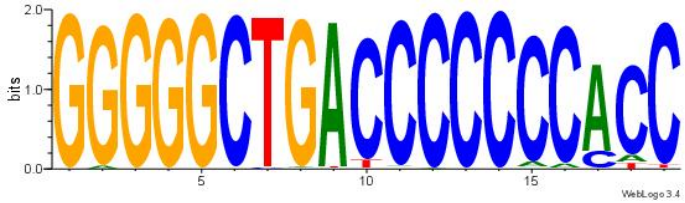

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

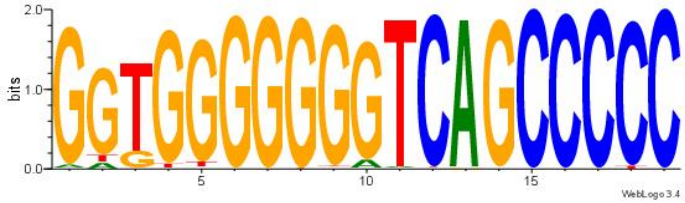

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.13256

Alignment:

```
AAGTTCTKGGKTACATGTGC
-AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

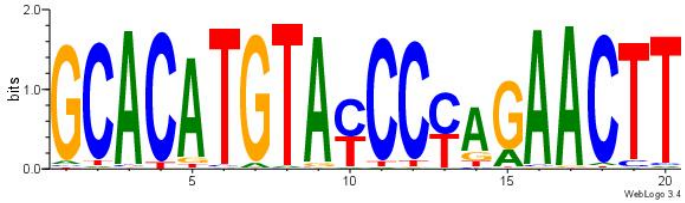

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

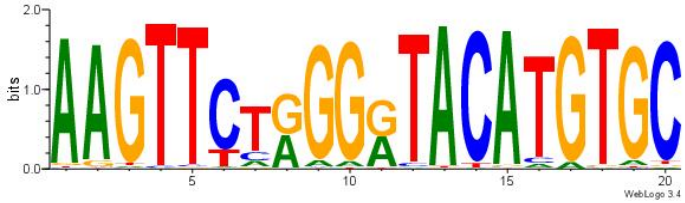

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132993

Alignment:
AGTTCCGGGTGGGCGTGGG
AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

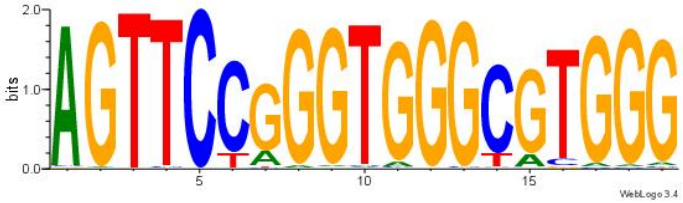

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

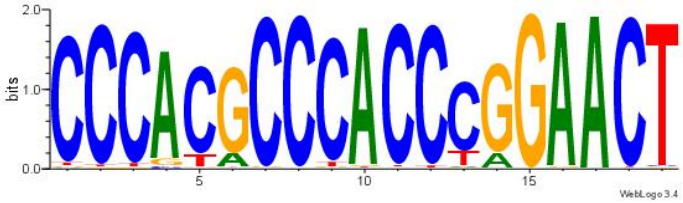

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.13301

Alignment:
GGGTGCAGGMGGGCTGAGT
GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

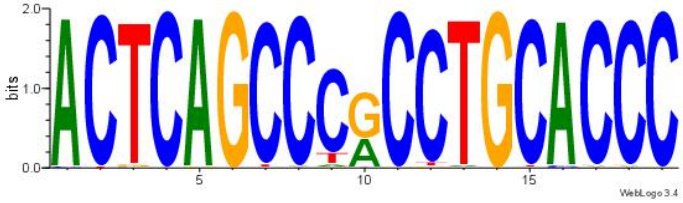

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

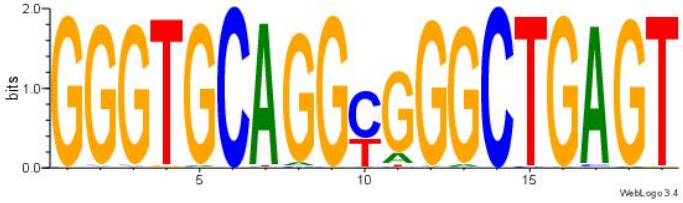

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.13328

Alignment:
CGGCGCTGMGCTCGATTTCT
-AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

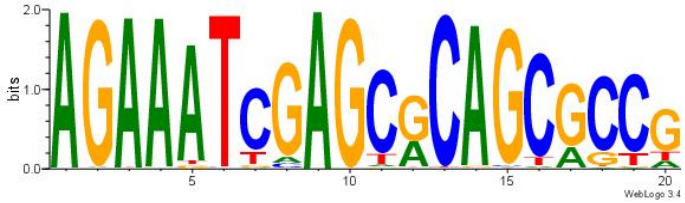

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

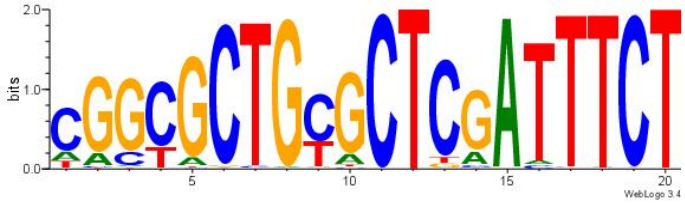

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133426

Alignment:

ACATCCCAGACGATGGGCG

GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

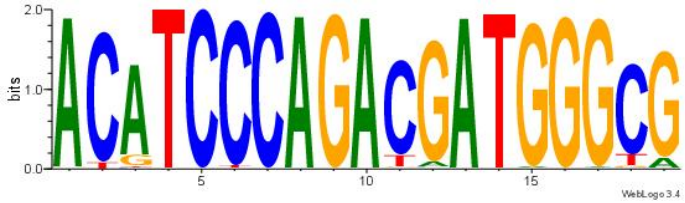

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

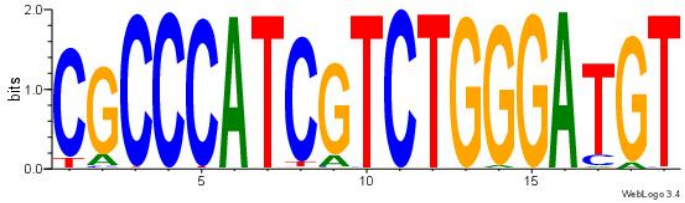

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135195

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

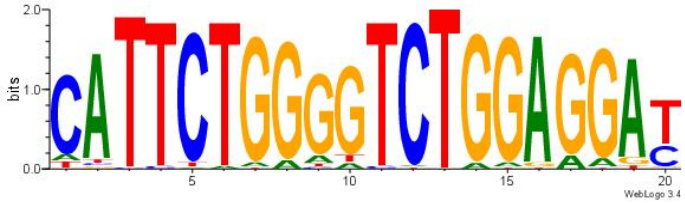

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

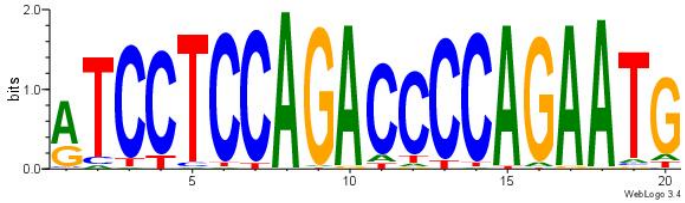

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.135614

Alignment:
GCCACCAMGCCMKGCTAAT
AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

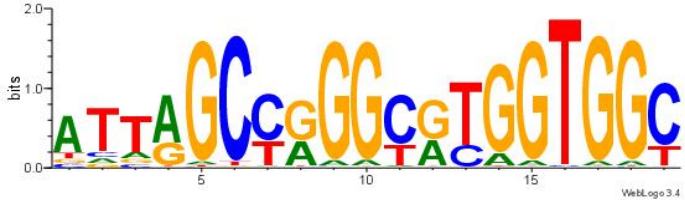

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

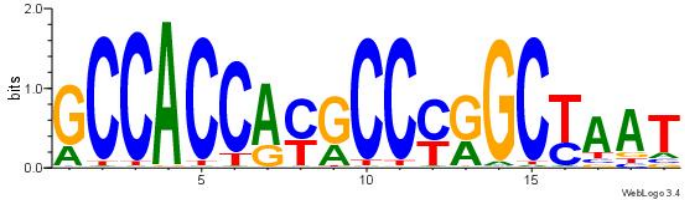

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.135971

Alignment:
AAGCAGGGCGAGGCATTGCC
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

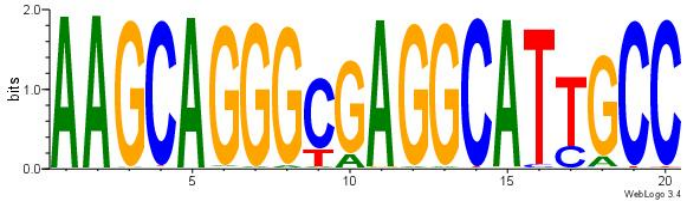

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

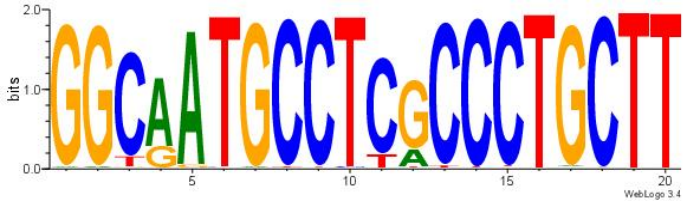

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.136231

Alignment:

```
CAACATGGATGRARCTGGAG
AGCCCCGGTTCCCGCYCGC-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

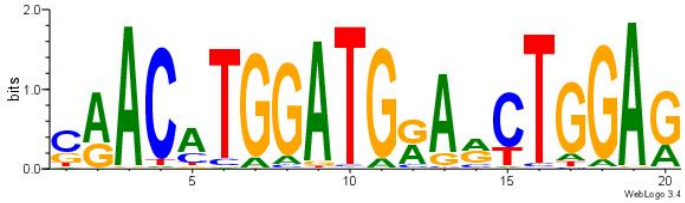

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

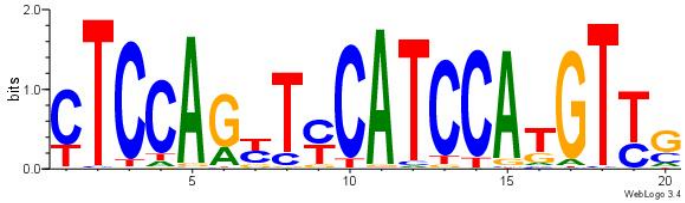

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13694

Alignment:
GCTCCACCCAGTTCGAGCTT
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

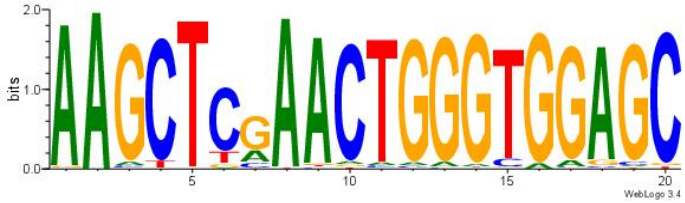

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

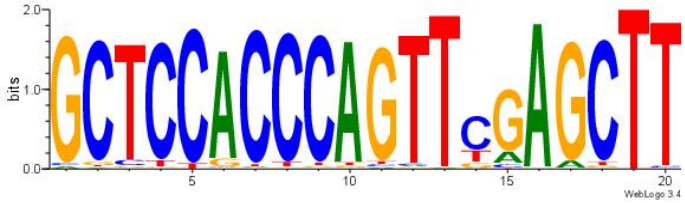

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.137362

Alignment:
GAAAGGGAACTCCCTGACCC
-GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

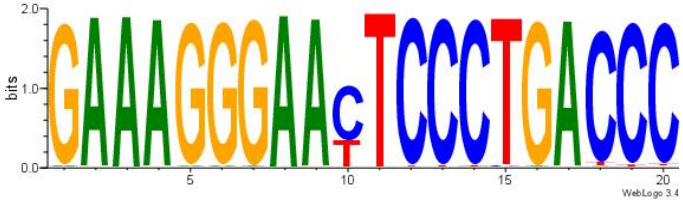

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

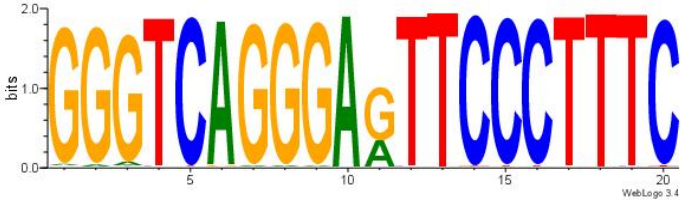

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.137528

Alignment:
TCCCTCCCGGACGGGGYGGC
-AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

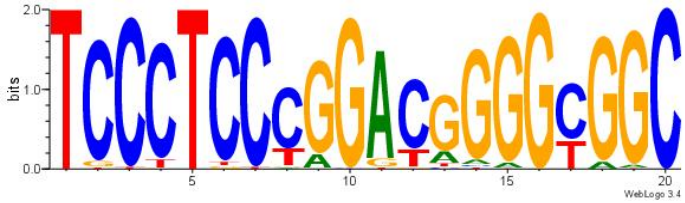

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

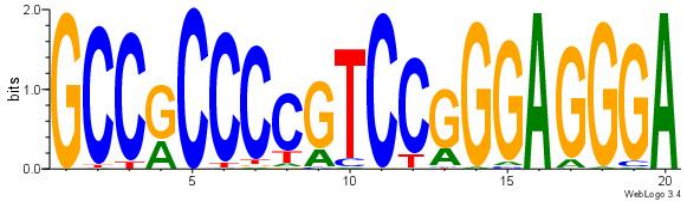

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.138392

Alignment:

```
TGCTGGAGGTCCACTCCAGA
AGCCCCGGTTCCCGCYCGC-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

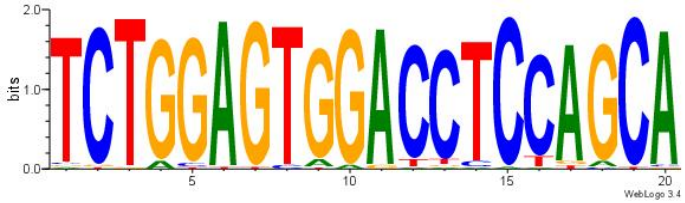

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

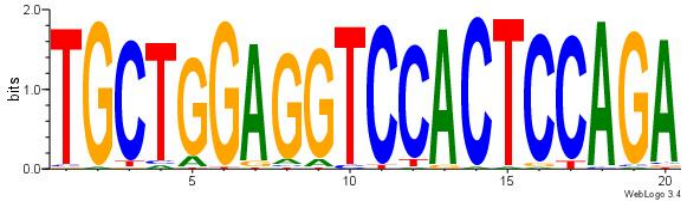

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138894

Alignment:

```
GTGCCAGGCACTGTKCTARG
-AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

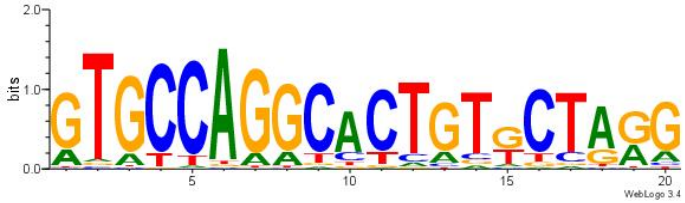

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

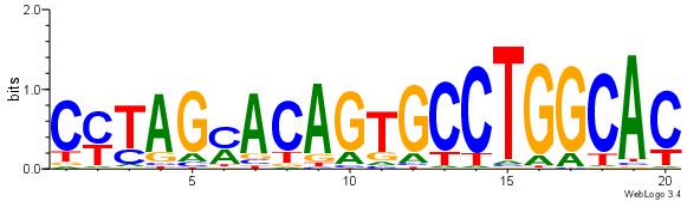

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.139091

Alignment:
AGGASCSTCYSWGCCMGGY
AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

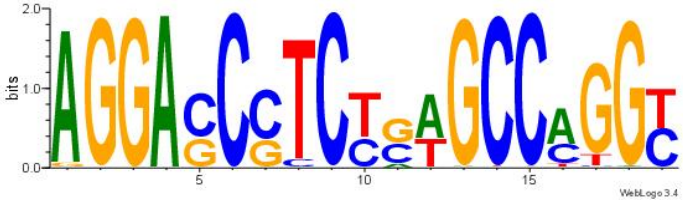

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

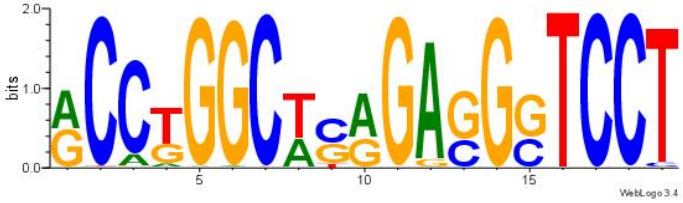

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139708

Alignment:
CMCAGTTCACAATAGGGTT
GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

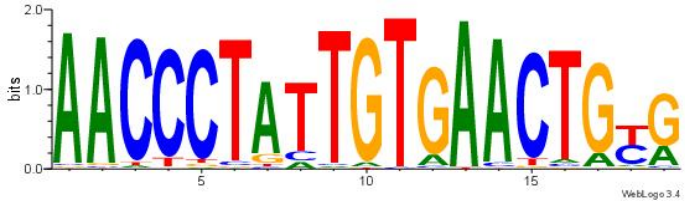

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

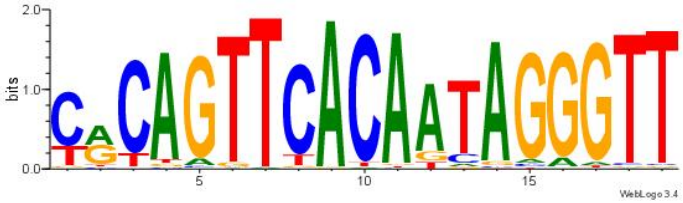

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139721

Alignment:

```
ATGATCCAGCAATYCCACTH
-GCGMGCGGGAACCGGGGCT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

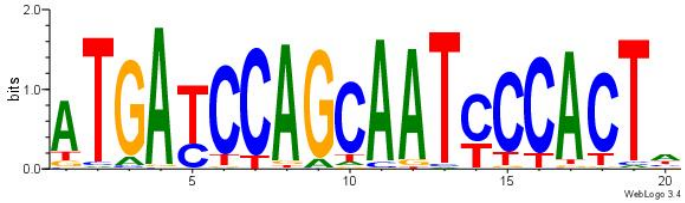

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

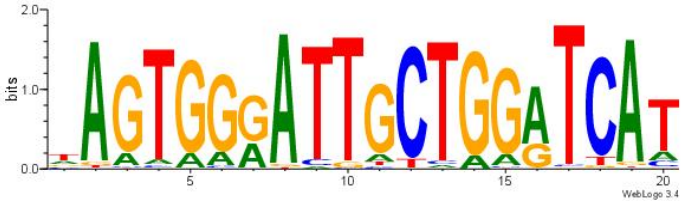

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139723

Alignment:
GAATCCTGGGACAGCCTGT
GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

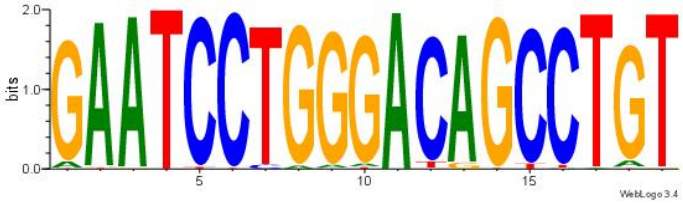

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

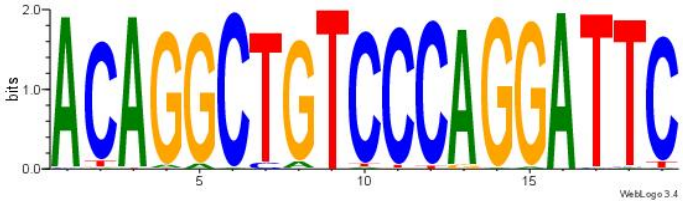

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.141863

Alignment:
GCCTCTCCCTCCACACCTCC
AGCCCCGGTTCCCGCYCGC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

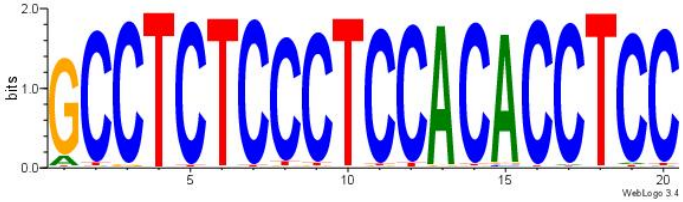

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

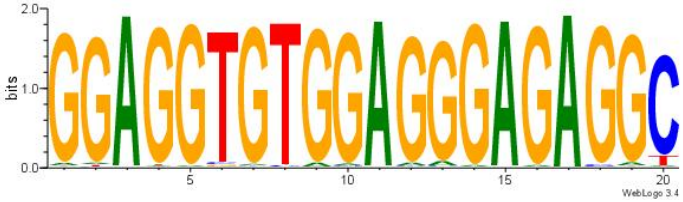

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.142206

Alignment:
CTGGGTCCCCCAGCAGTGCC
GCGMGCGGGAACCGGGGCT-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

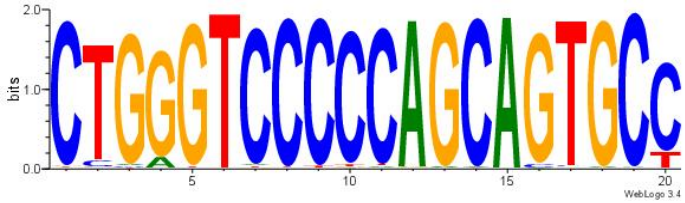

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

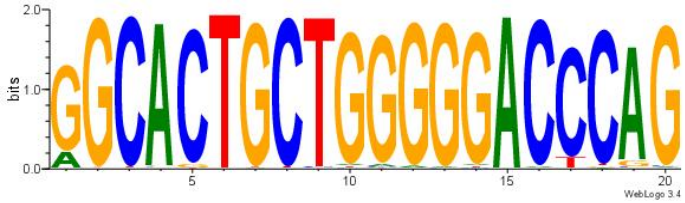

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.142466

Alignment:

```
CAAASCKGTCATAGGCCAT
GCGMGCGGGAACCGGGGCT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

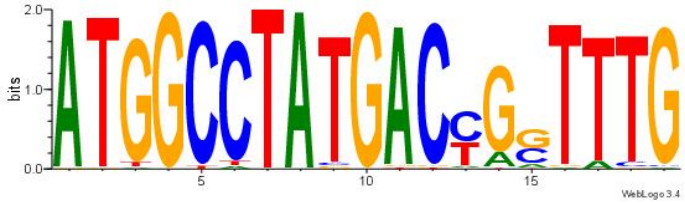

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

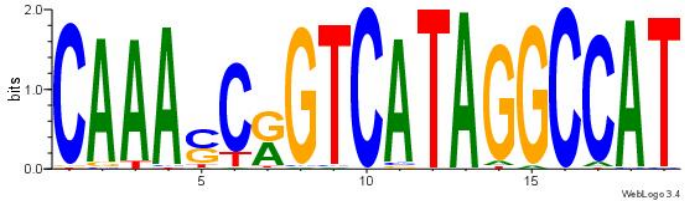

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.14282

Alignment:

```
AAGGAACAAACTCCRGACAC
-AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

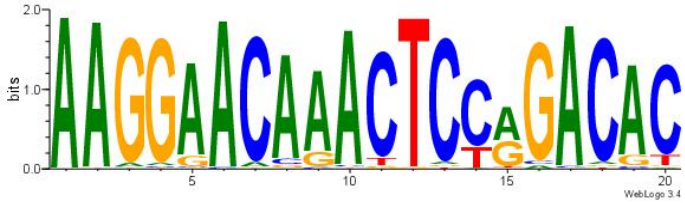

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

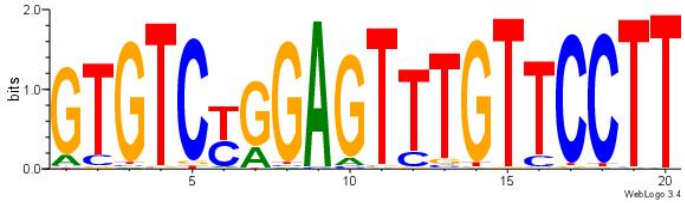

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.143694

Alignment:
GCCAGTCACAAAARGACAMA
-GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

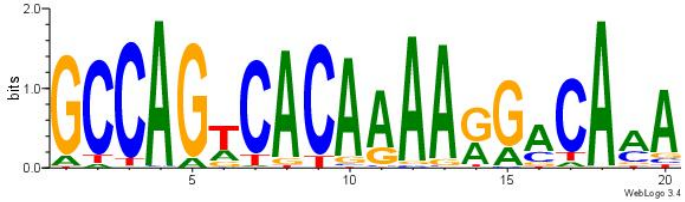

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

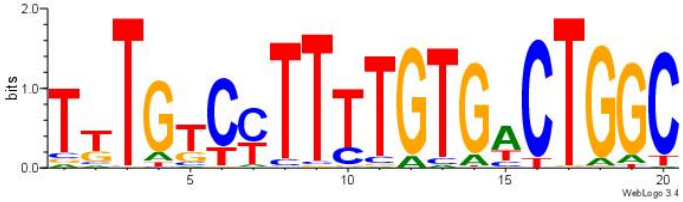

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.143795

Alignment:
GAAGGCAGCTAAGGCCCGGY
AGCCCCGGTTCCCGCYCGC-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

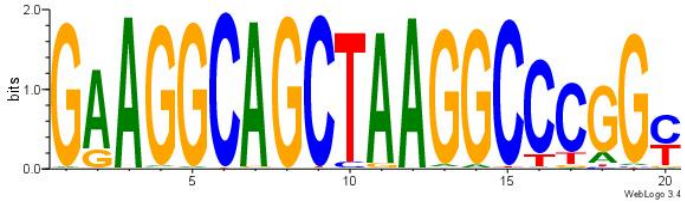

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

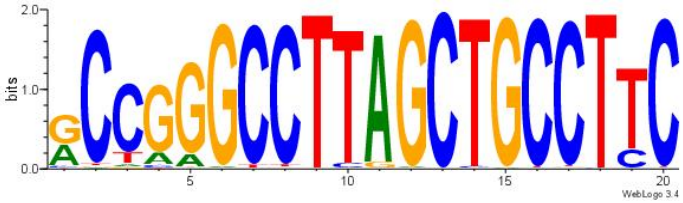

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144156

Alignment:

```
AAAATGTGGTAYATAYAYAC
-AGCCCCGGTTCCCGCYCGC
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

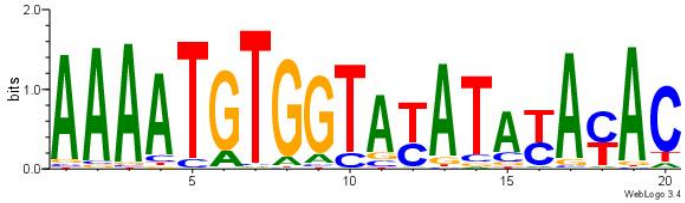

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

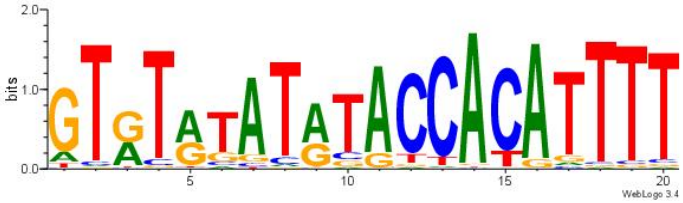

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145324

Alignment:

```
CTGGGCRACAGAGYRAGACY
GCGMGCGGGAACCGGGGCT-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

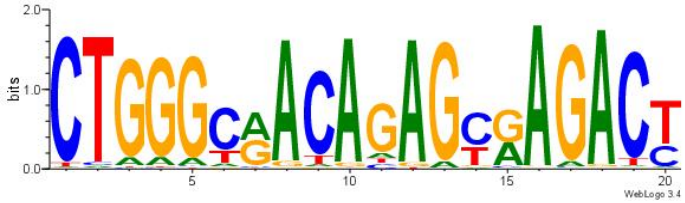

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

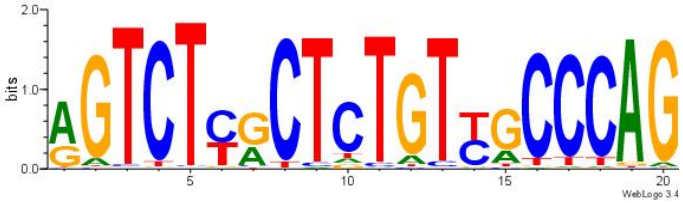

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.145384

Alignment:
TTGTCCCACTGGAAGGTCTT
-AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

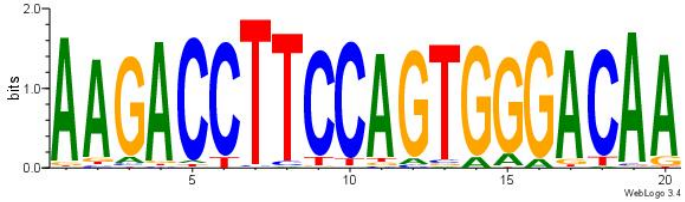

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

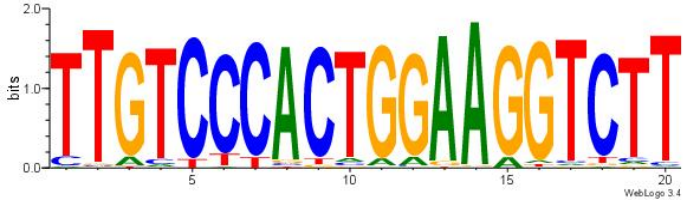

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.145881

Alignment:
TAGTGGTGATTTSTGAGAT
GCGMGCGGGAACCGGGGCT

Original motif Consensus sequence: ATCTCASAAATCACCACTA

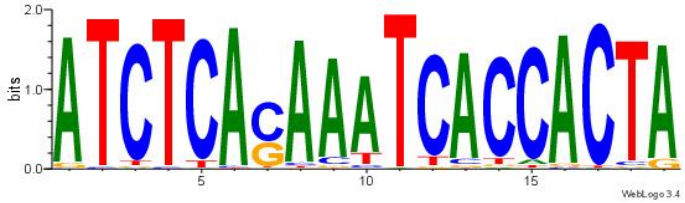

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

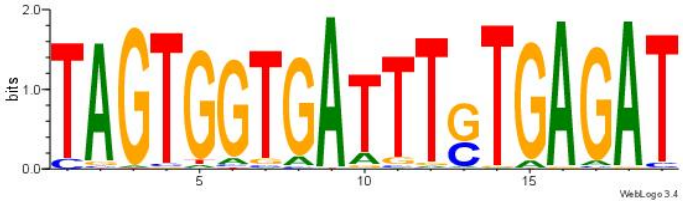

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146129

Alignment:

```
TTGGTAGGATCCGTGATGCC
AGCCCCGGTTCCCGCYCGC-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

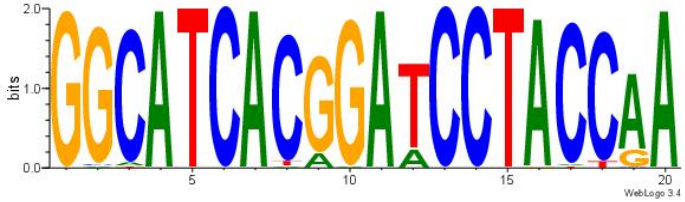

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

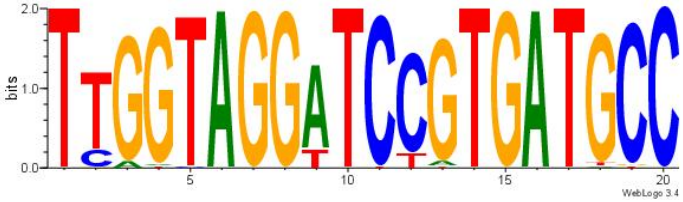

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146224

Alignment:
CGGCTTCATTCTTGAAGTC
AGCCCCGGTTCCCGCYCGC

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

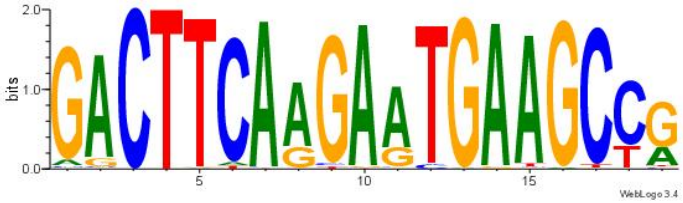

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

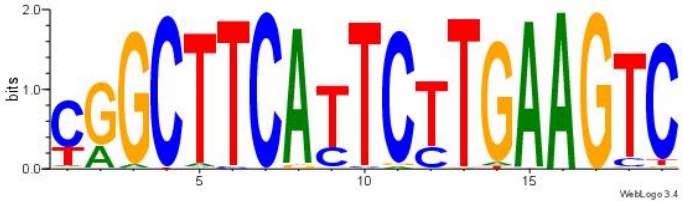

Dataset #: 1 Motif ID: 165 Motif name: Motif 165

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

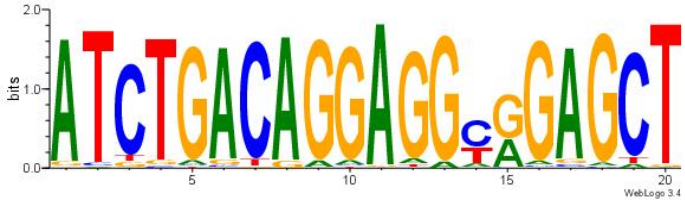

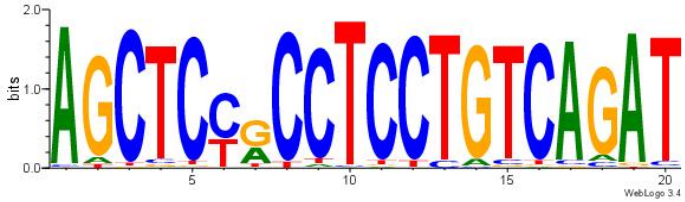

Best Matches for Motif ID 165 (Highest to Lowest)

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118513

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

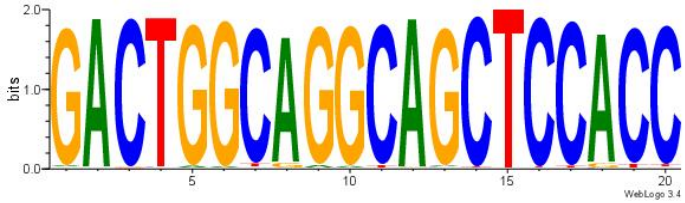

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

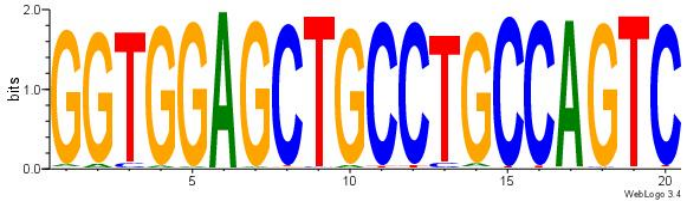

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.1205

Alignment:
GTGGCCCTCTTCTCACAGCT
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

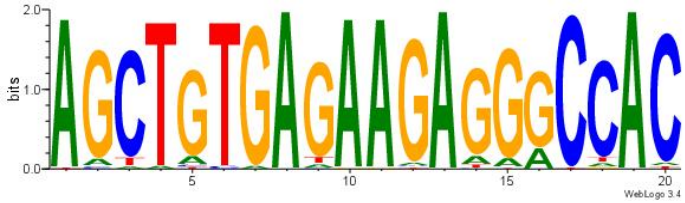

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

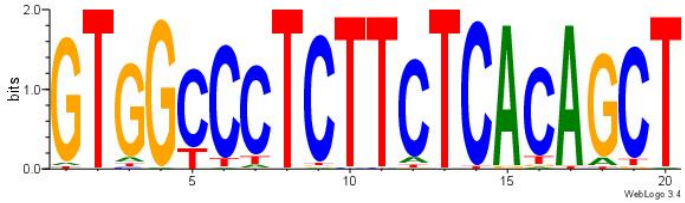

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.123054

Alignment:
TTCAMTCATGATTTGGCTCT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

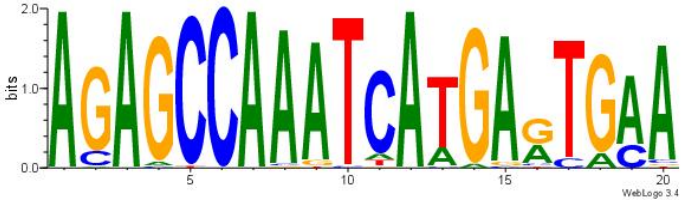

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

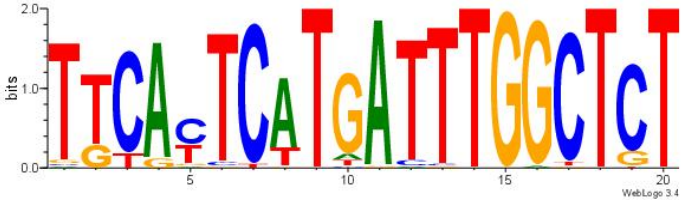

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.123269

Alignment:
GCCTCTCCCTCCACACCTCC
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

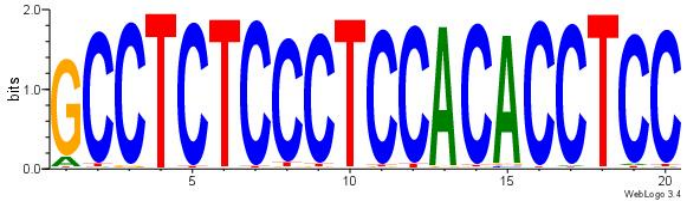

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

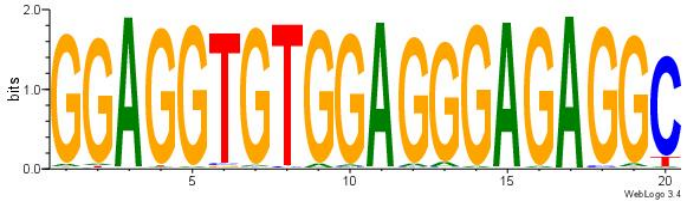

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12362

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

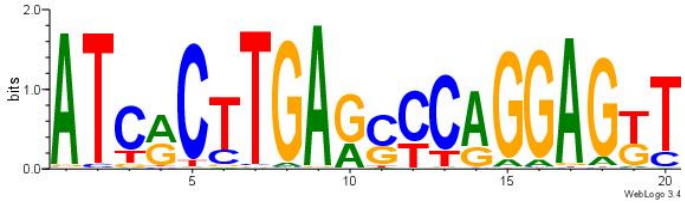

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

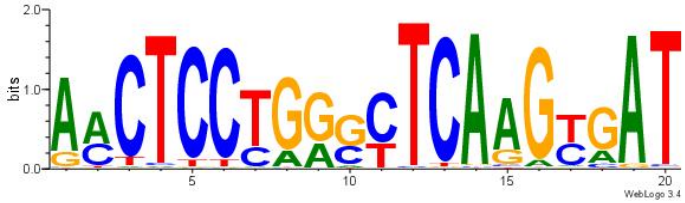

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127127

Alignment:
GCCKCCCCGTCCGGGAGGGA
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

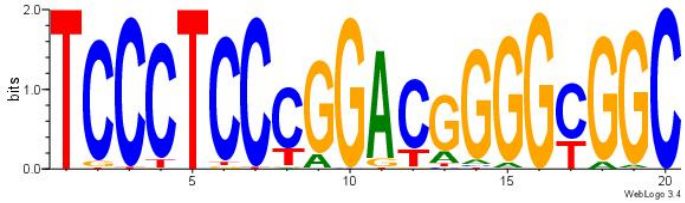

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

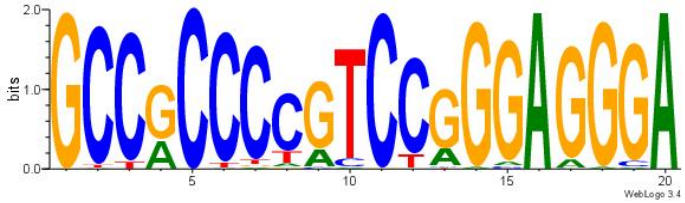

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.127856

Alignment:
CGTCGCTCACGCTGGGAGCT
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

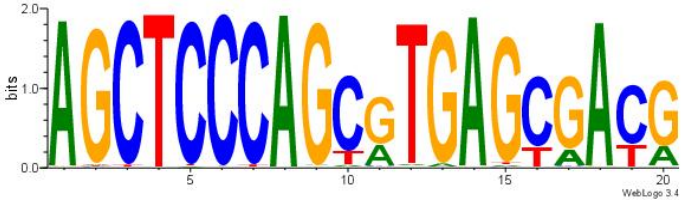

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

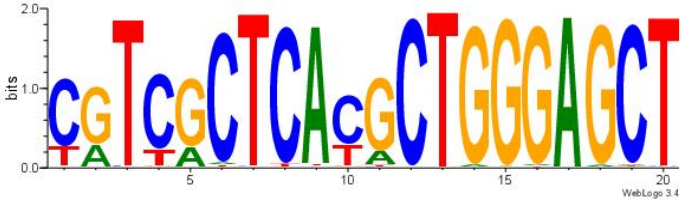

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.128885

Alignment:
CGCGGCGCTTGCGGGCCAGC
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

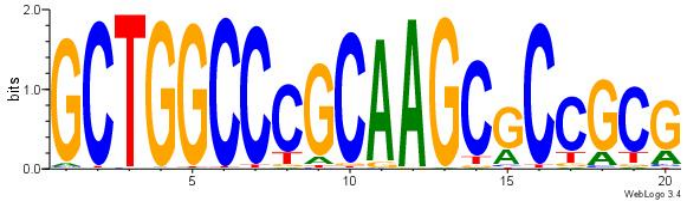

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

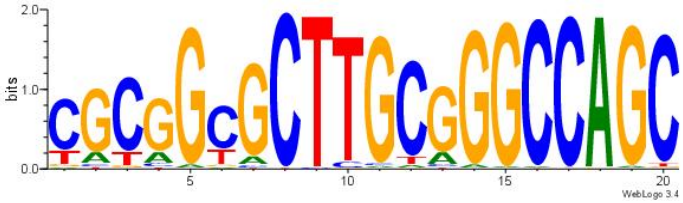

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129338

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

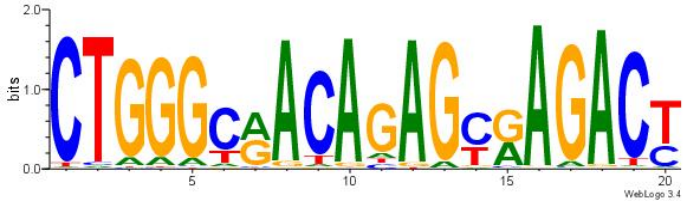

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

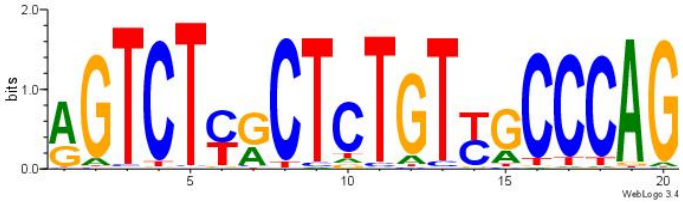

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12969

Alignment:
MTCCTCCAGACCCCAGAATG
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

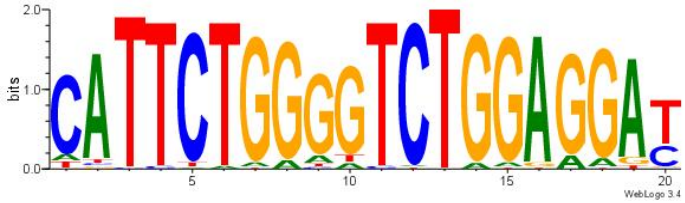

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

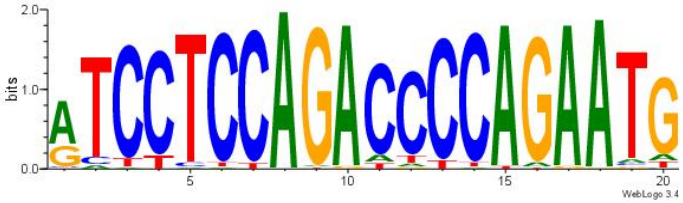

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.129758

Alignment:
AAGCTGAGGGAGCCGGCTCC
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

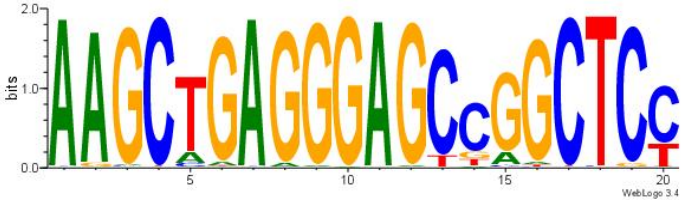

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

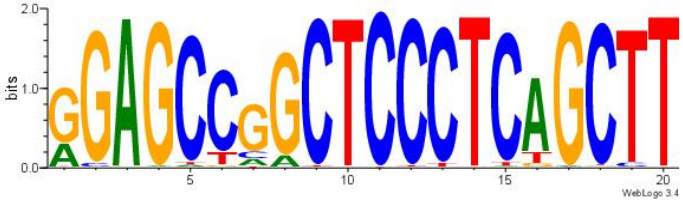

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130597

Alignment:
ATGGAATAYTATTCAGCCAT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

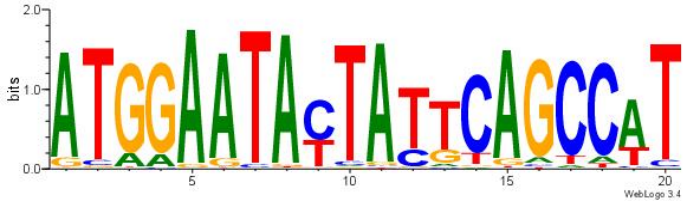

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

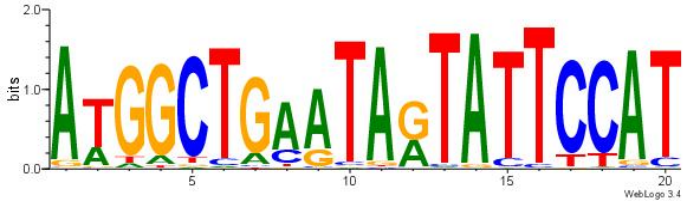

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130603

Alignment:

```
HAGTGGKATTGCTGGATCAT
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

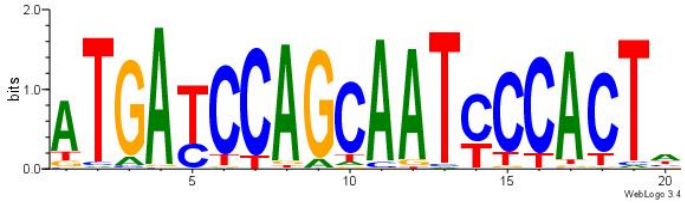

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

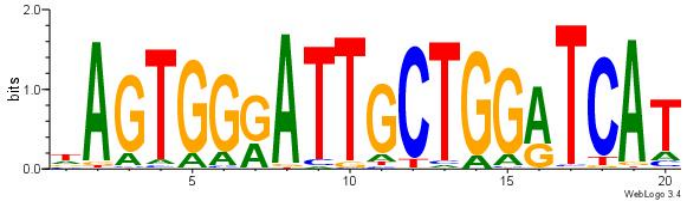

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133257

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

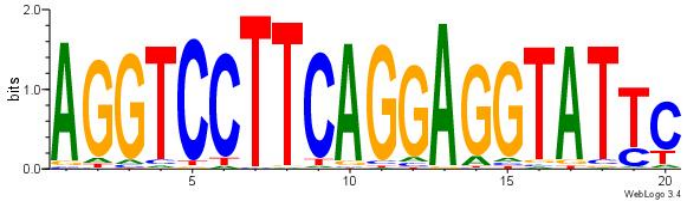

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

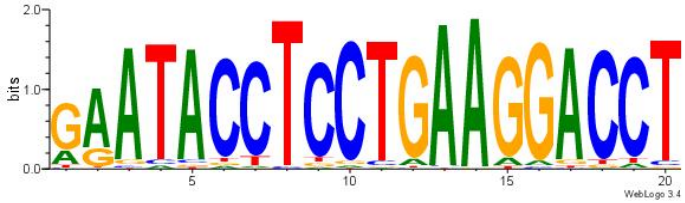

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.133675

Alignment:
ACCTGGAAAATCGGGTCACT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

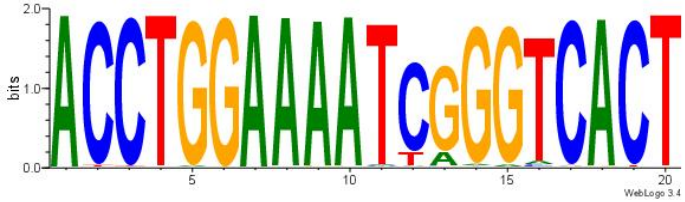

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

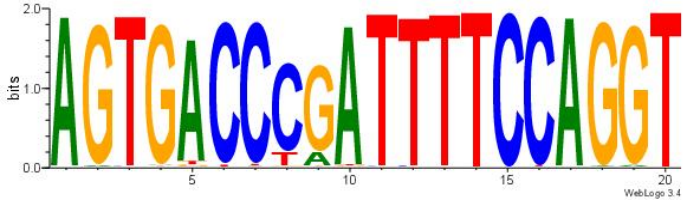

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134289

Alignment:
AAGACCTTCCAGTGGGACAA
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

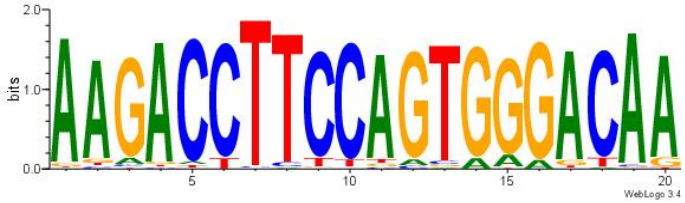

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

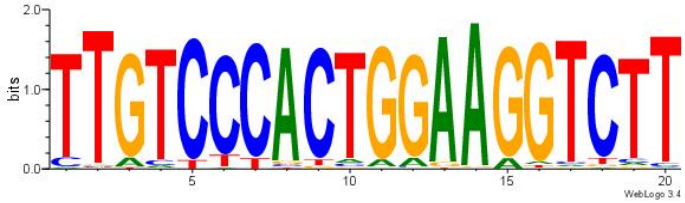

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134481

Alignment:

```
TCTGGAGTGGACCTCCAGCA
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

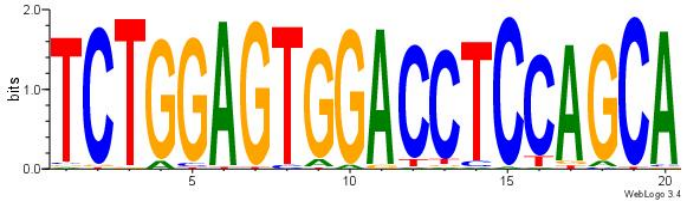

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

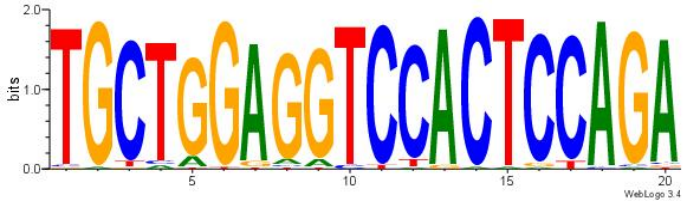

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136035

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

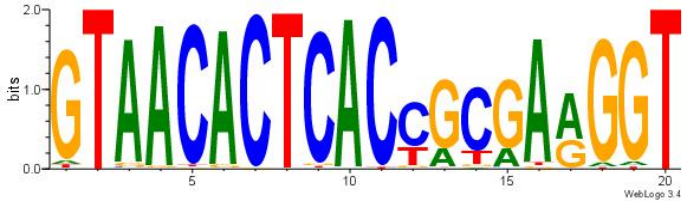

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

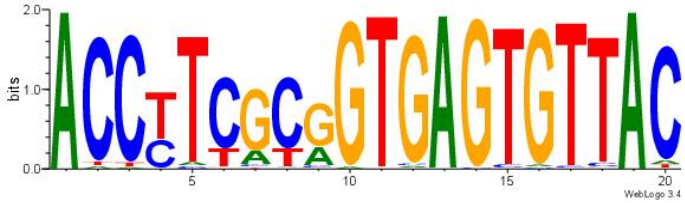

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.136399

Alignment:
KKCACCTTGATCTTGGACTT
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

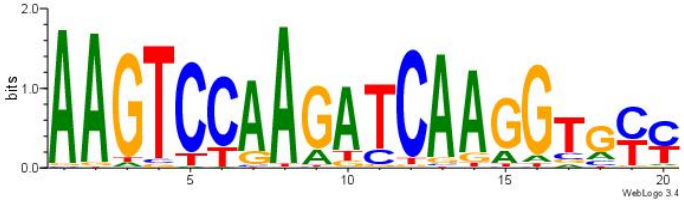

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

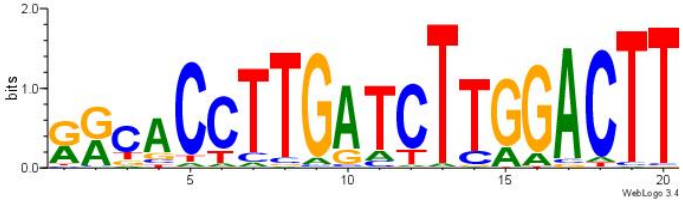

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.136623

Alignment:
ACTGTCTTCCACCTCCACAT
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

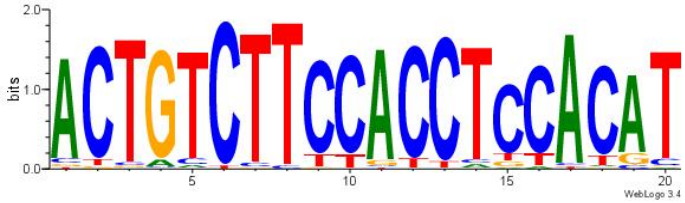

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

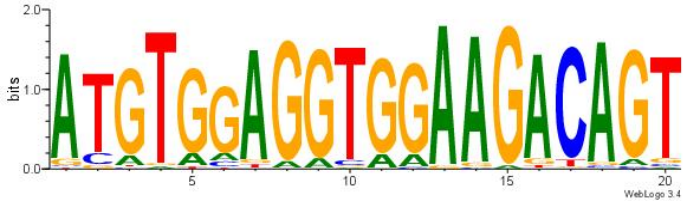

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137408

Alignment:

```
AAGGAACAAACTCCRGACAC
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

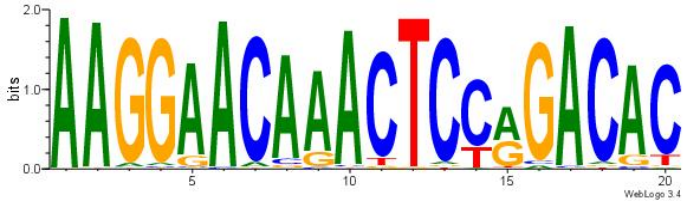

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

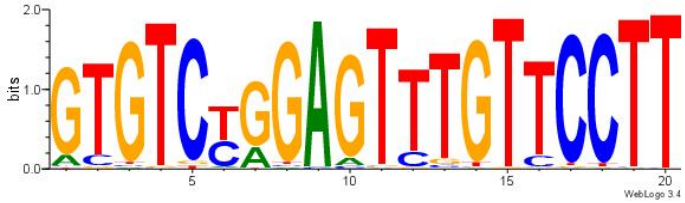

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137542

Alignment:
VMATTTAKTGAGCACCTACT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

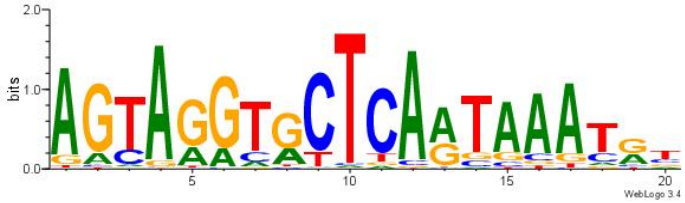

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

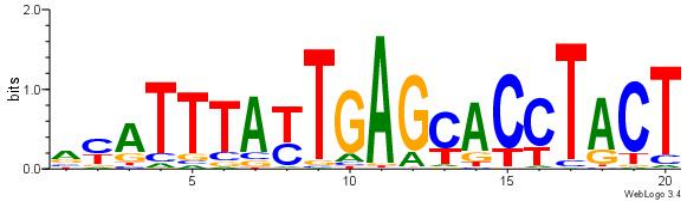

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.137651

Alignment:
AGGCCCCAGTGTSTGTTGTT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

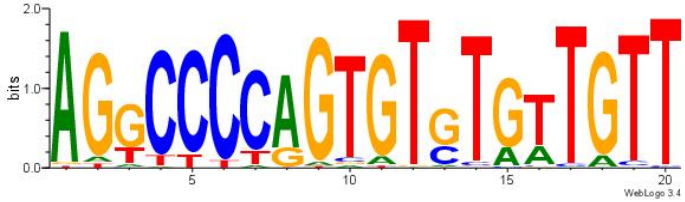

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

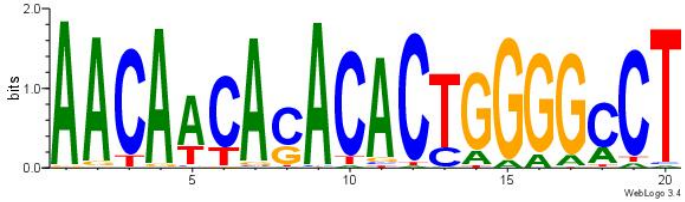

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137666

Alignment:
TCCAAATGGGAGAAATTGGC
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

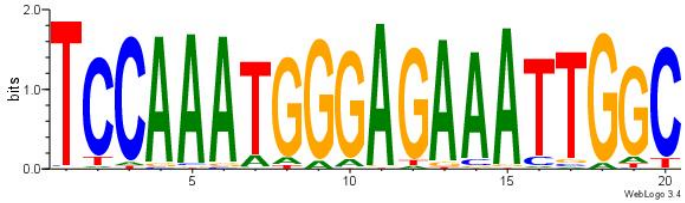

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

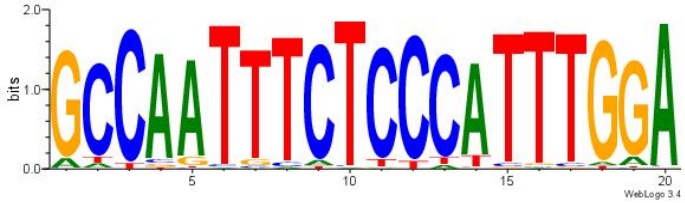

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139141

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

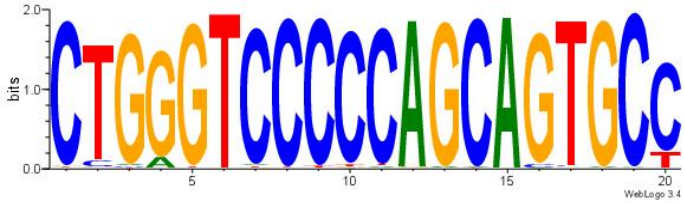

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

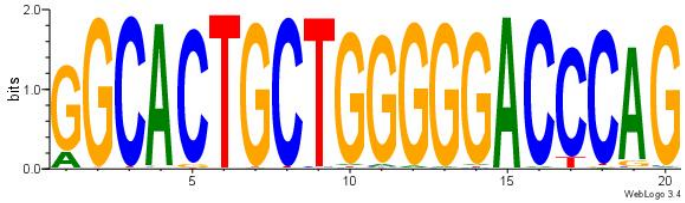

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139209

Alignment:

```
ACTCCCTAGTGAGATGAACC
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

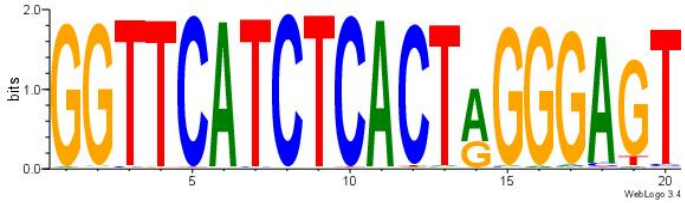

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

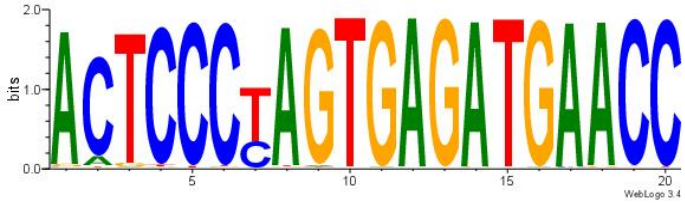

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.140461

Alignment:
ACTTTGGACTGTGGACTTTT
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

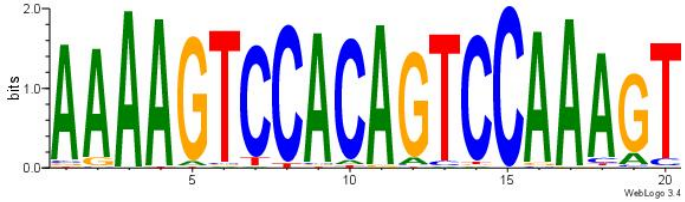

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

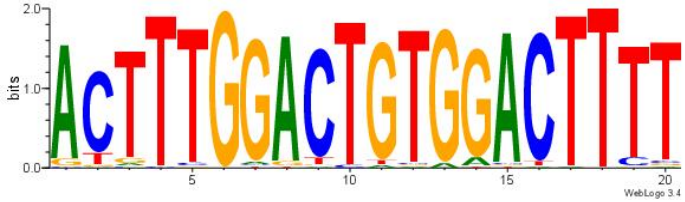

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14066

Alignment:
ATAGGAATGCTTGTGATTTT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

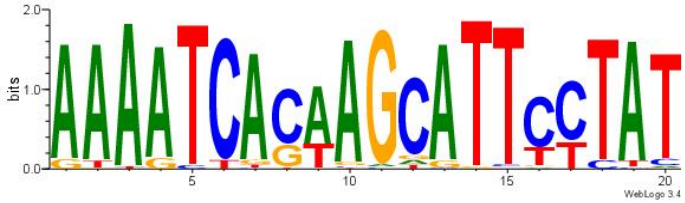

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

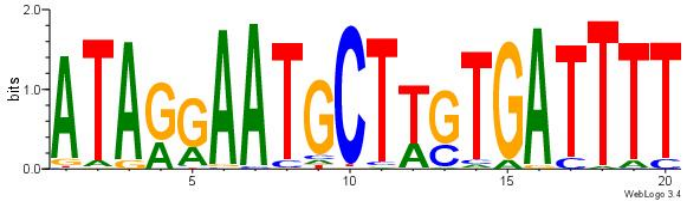

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140704

Alignment:

```
AAGCAGGGCGAGGCATTGCC
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

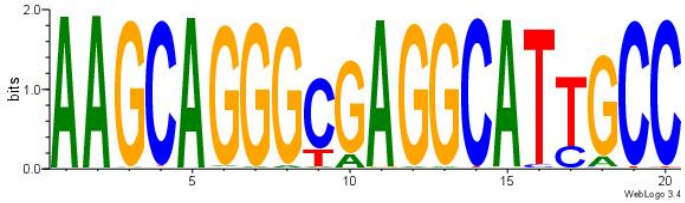

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

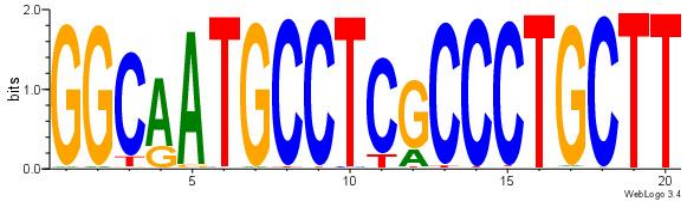

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141315

Alignment:
GCCTCCTTGAGCTGTGGTGG
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

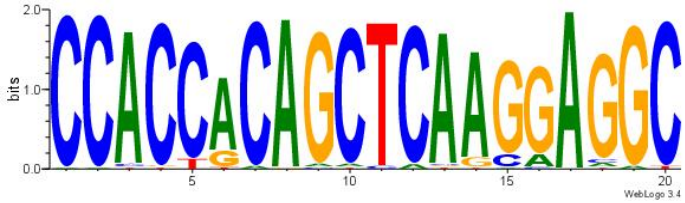

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

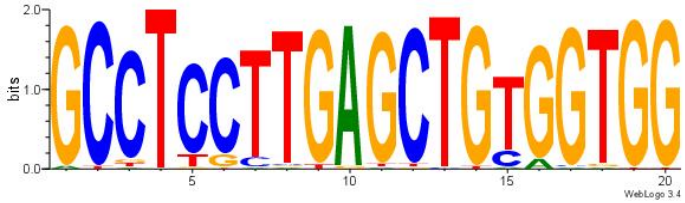

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.142681

Alignment:
AWTKKTGGTTKCCAGKGGCT
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

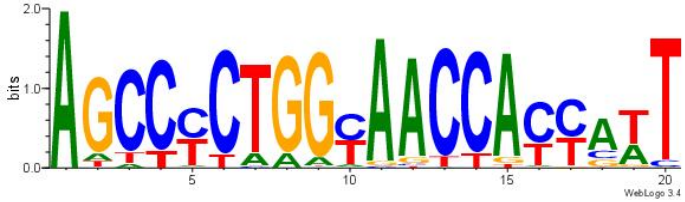

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

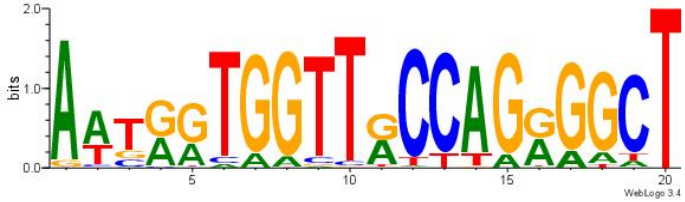

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143515

Alignment:
ACACATCACAAAGCAGTTTC
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

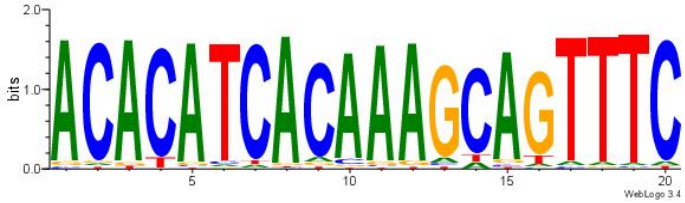

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

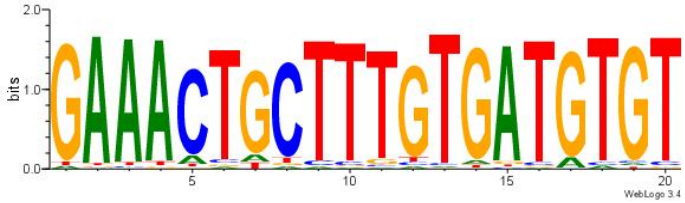

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14413

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

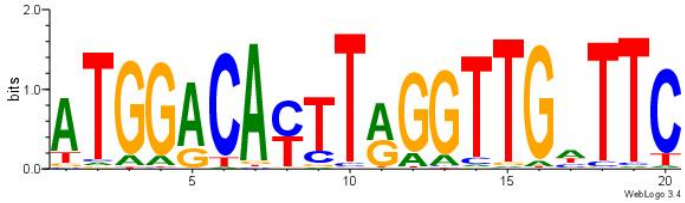

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

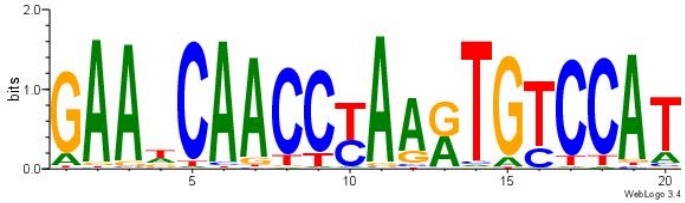

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145587

Alignment:

```
AATCAACCCTGGYRATCAAT
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

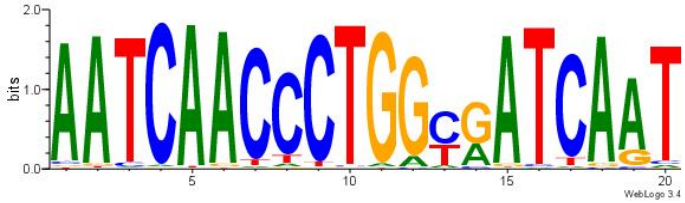

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

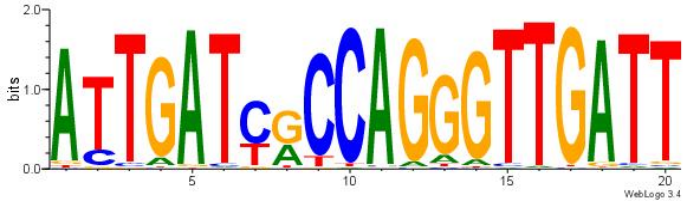

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.148067

Alignment:
TTTYTWTTTTTTYTWGAGAC
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

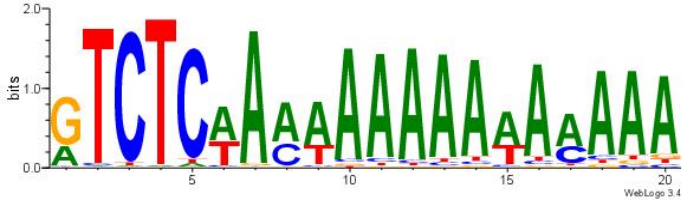

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

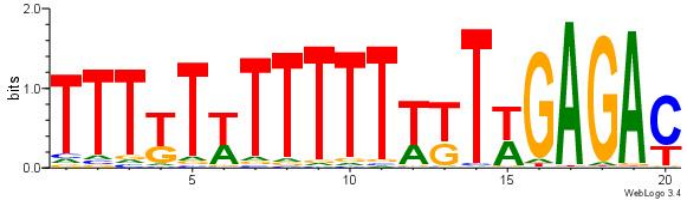

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148517

Alignment:
TMGGGAGGCTGAGGCAGGAG
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

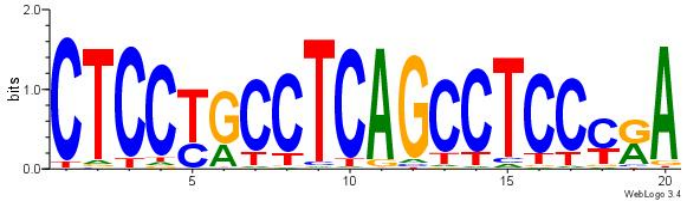

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

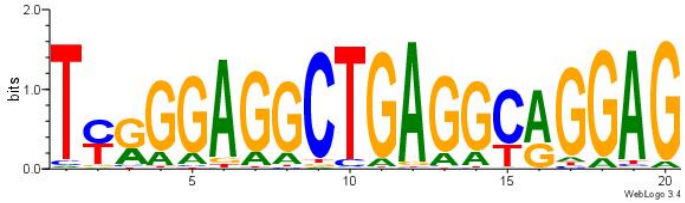

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149019

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

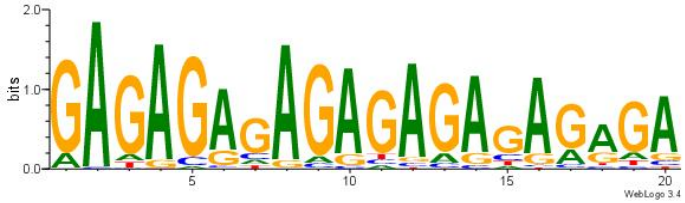

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

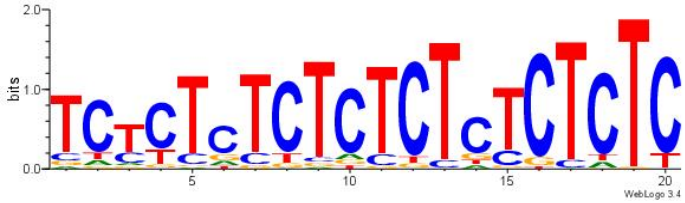

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149283

Alignment:
GTTTAACCATTGAGGGCCAG
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

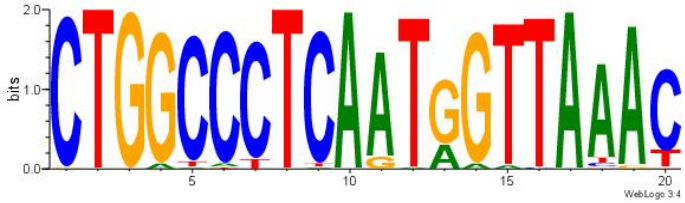

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

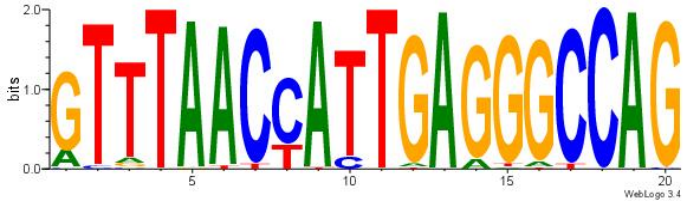

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.149741

Alignment:
GGATCCACTGGGTGAAGCCA
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

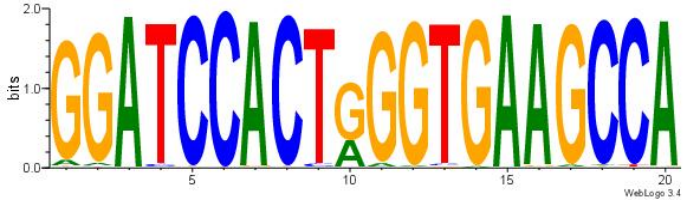

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

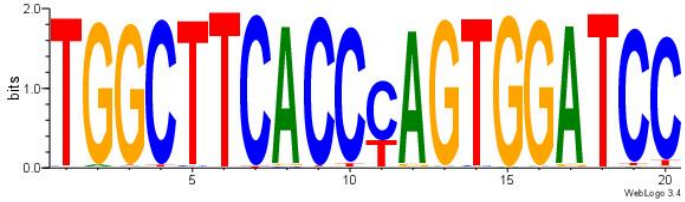

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150154

Alignment:
AGGACTGAGGGTGCCYRGGG
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

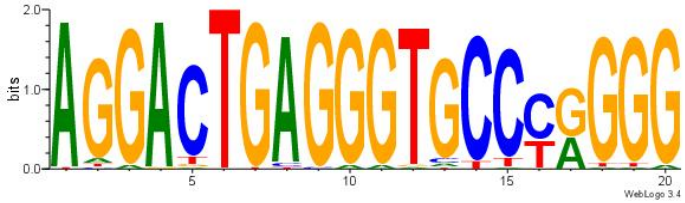

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

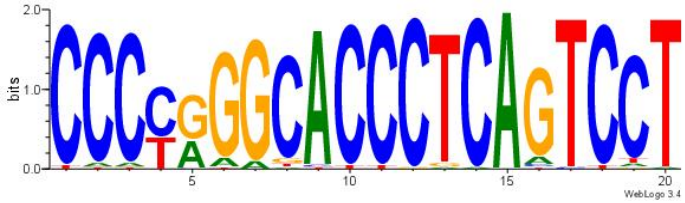

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150278

Alignment:

```
GCCAGTCACAAAARGACAMA
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

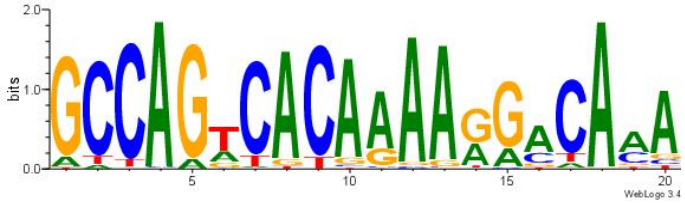

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

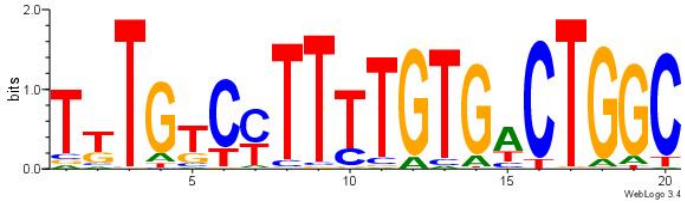

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151212

Alignment:
ATGTAACCAAAYACCACCTG
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

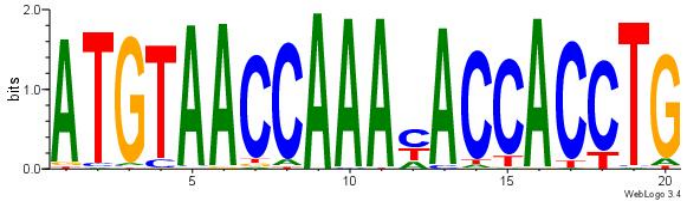

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

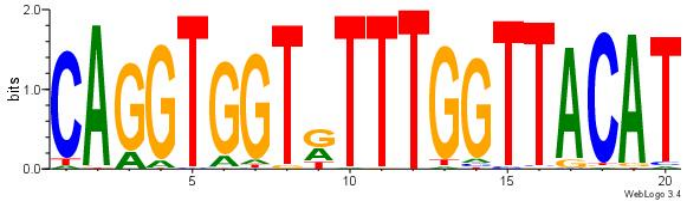

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.153005

Alignment:
CMTAGYACAGTGCCTGGCAC
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

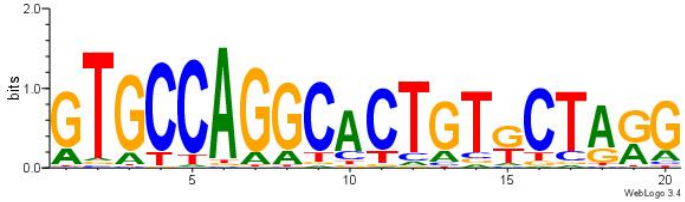

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

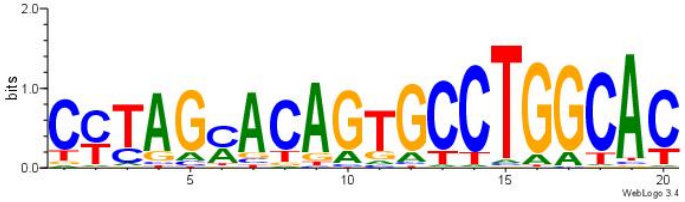

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155241

Alignment:
GCGCTCKTCGGGGAGGCTCG
ATCTGACAGGAGGYRGAGCT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

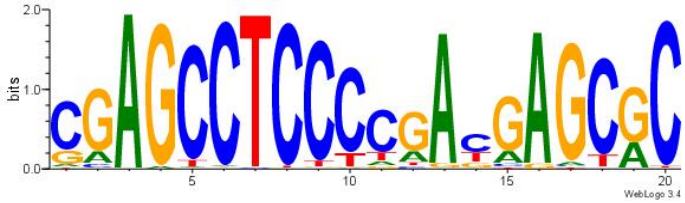

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

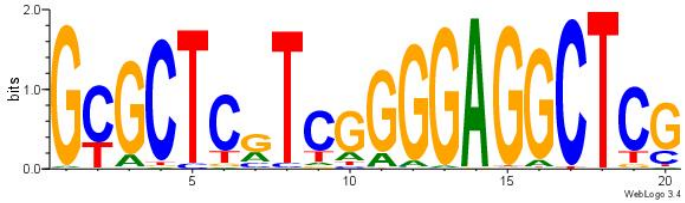

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15535

Alignment:

```
CCCATGCAAGTCYRAAATCC
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

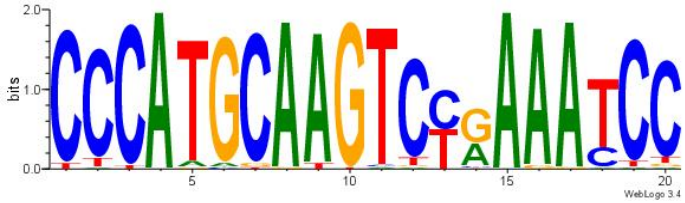

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

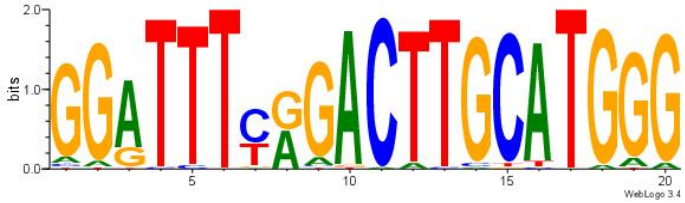

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155576

Alignment:
AGGTTTGTTACATAGGTAWA
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

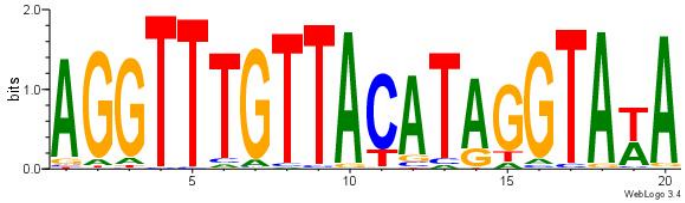

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

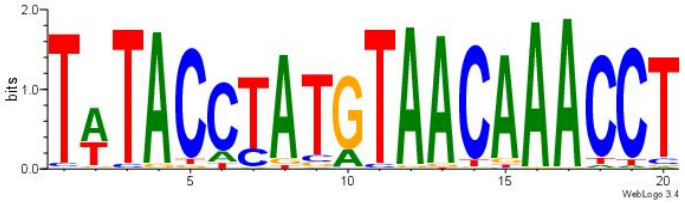

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.156273

Alignment:
CCCGAAGCTGCRYRCTCGGT
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

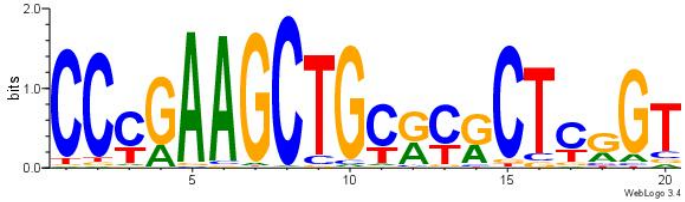

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

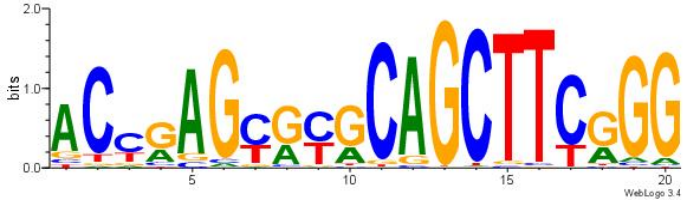

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157163

Alignment:
AAATTAGGCCAATTAATAAC
AGCTCMKCCTCCTGTCAGAT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

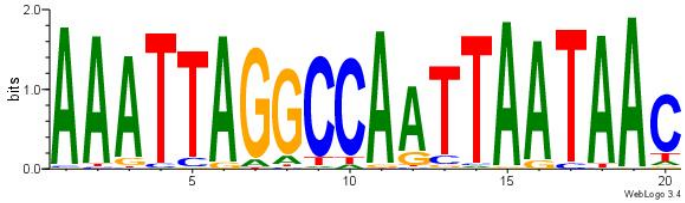

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157879

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
ATCTGACAGGAGGYRGAGCT
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

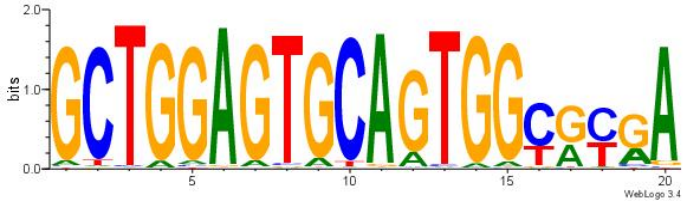

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

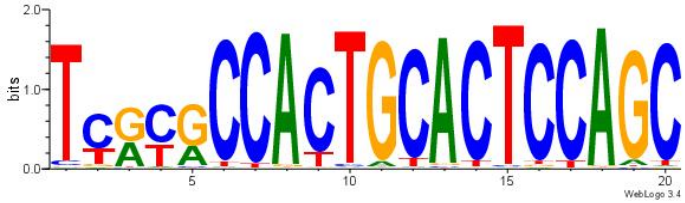

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159848

Alignment:

```
TAAAAGACTACAWATTGGGT
AGCTCMKCCTCCTGTCAGAT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

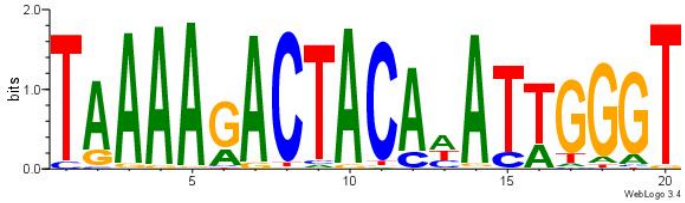

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

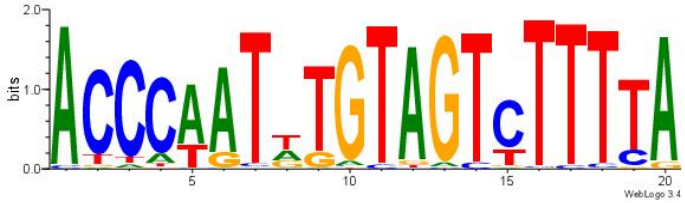

Dataset #: 1 Motif ID: 166 Motif name: Motif 166

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

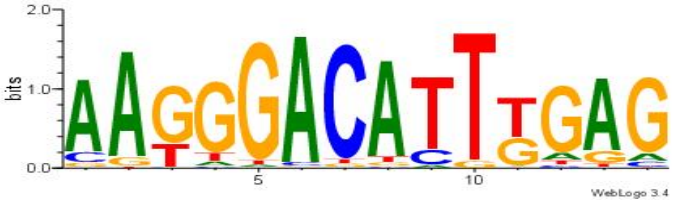

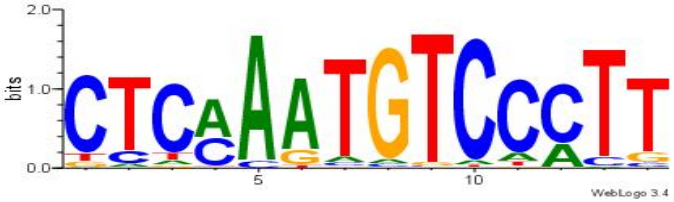

Best Matches for Motif ID 166 (Highest to Lowest)

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0470693

Alignment:

```
AATGACCAATTGAGAGC
AAGGGACATTKGAG---
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

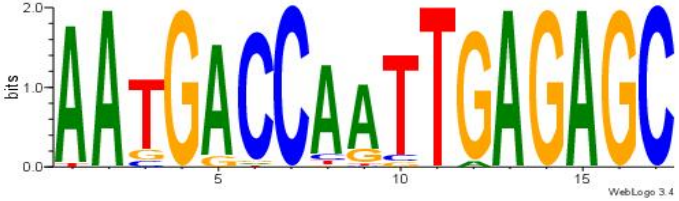

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

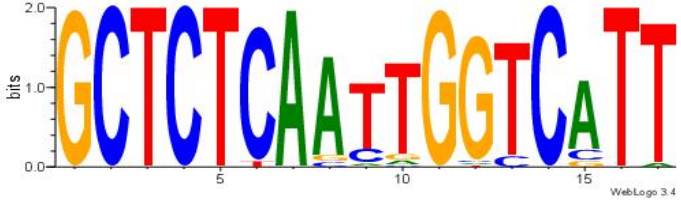

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0535951

Alignment:

```
GGGAGGGATATATTAGC
--AAGGGACATTKGAG-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

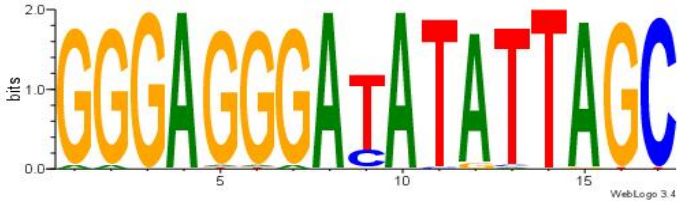

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

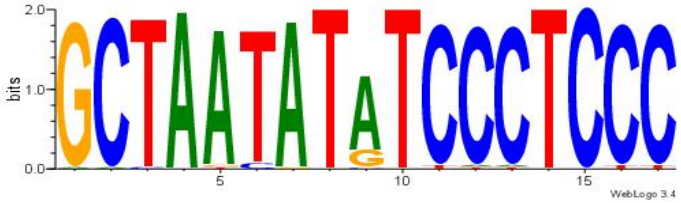

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0576035

Alignment:
CCCAAATCTCATSTTGAAT
CTCRAATGTCCCTT-----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

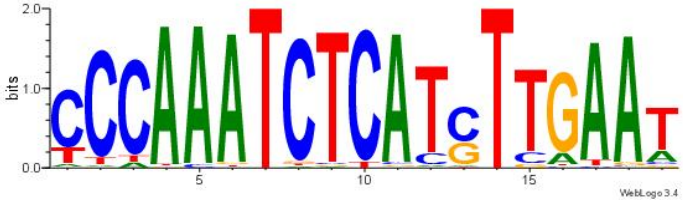

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

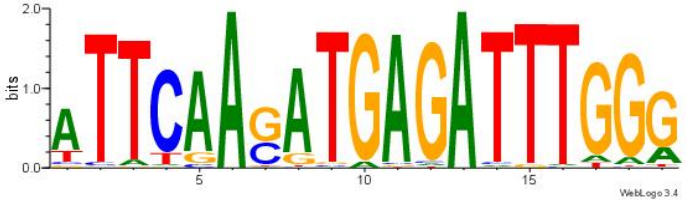

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.0589344

Alignment:
AACAACASACACTGGGGCCT
---AAGGGACATTKGAG---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

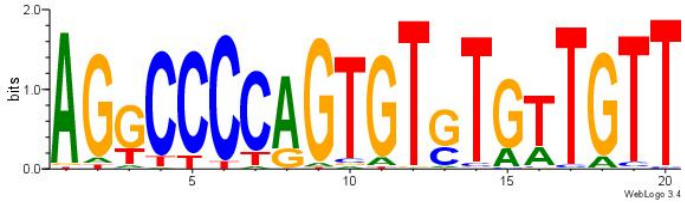

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

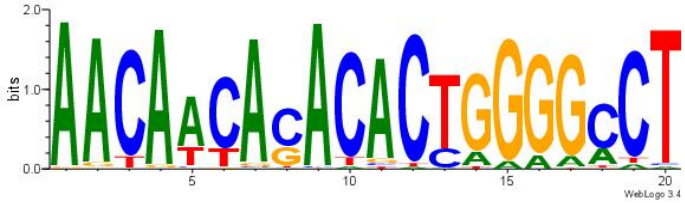

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0601117

Alignment:

```
AATGAKATCATGTCYTTTGC
----CTCRAATGTCCCTT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

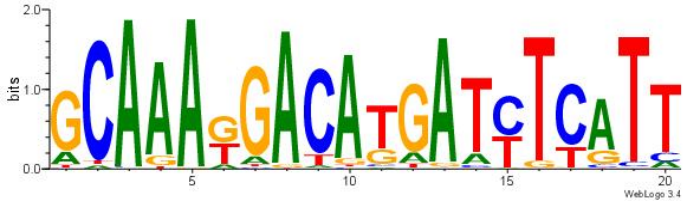

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

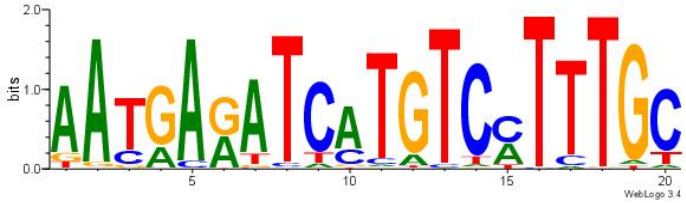

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0629417

Alignment:

```
CAGCTACTCKTATACCCTTG
------CTCRAATGTCCCTT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

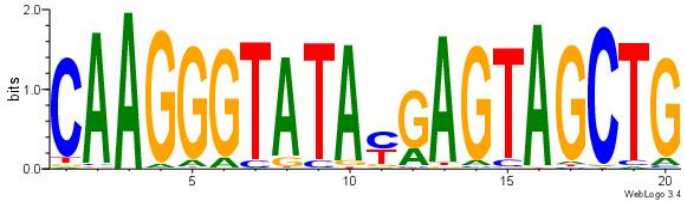

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

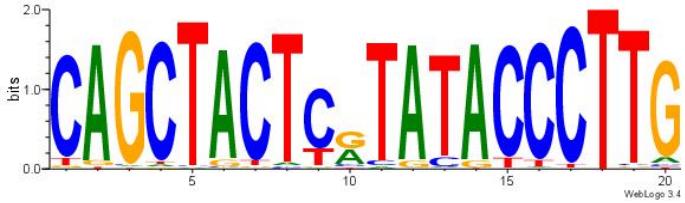

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0638028

Alignment:
GGAGGATCACKTGAG
AAGGGACATTKGAG-

Original motif Consensus sequence: CTCARGTGATCCTCC

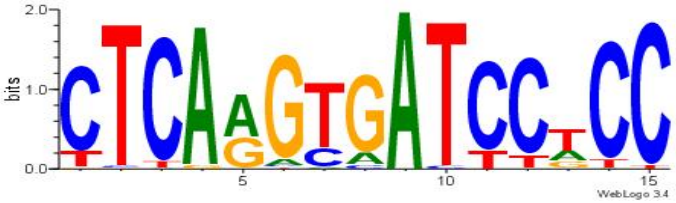

Reverse complement motif Consensus sequence: GGAGGATCACKTG

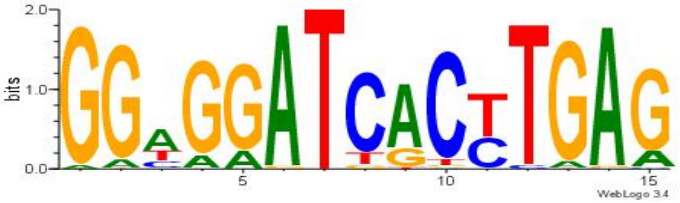

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.0642414

Alignment:
TAGTGGTGATTTSTGAGAT
-AAGGGACATTKGAG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

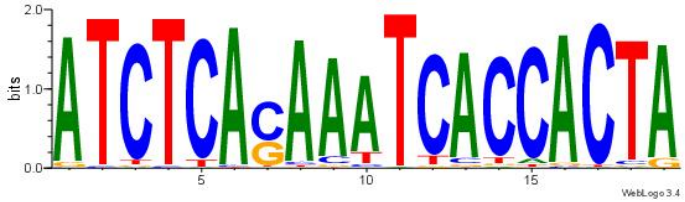

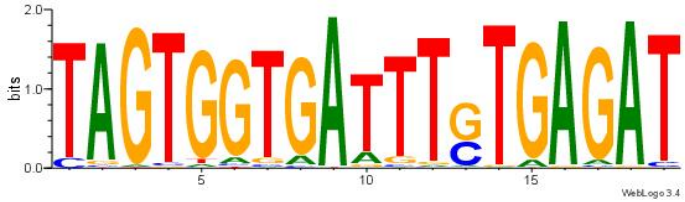

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0659742

Alignment:

```
CAGAAATCACCCGTCTT
---CTCRAATGTCCCTT
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

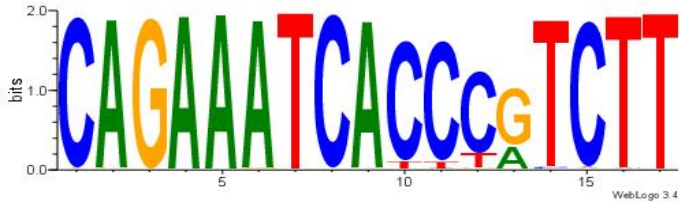

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

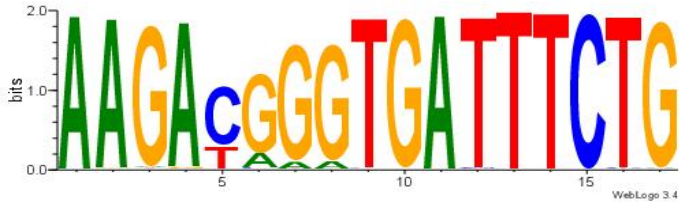

Dataset #:	1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0693885

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
----CTCRAATGTCCCTT--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

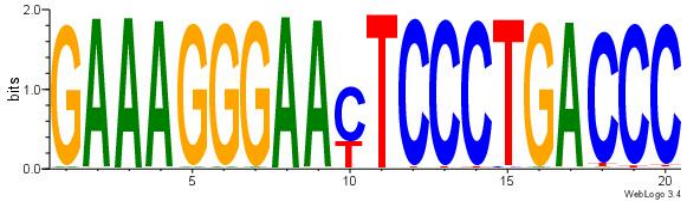

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

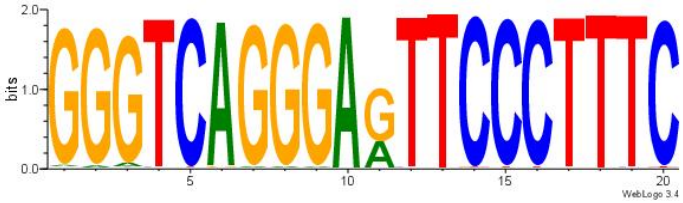

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.070566

Alignment:
ACAAGGCAAGTCCCTTCY
--CTCRAATGTCCCTT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

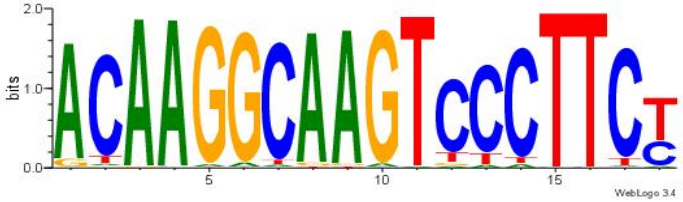

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

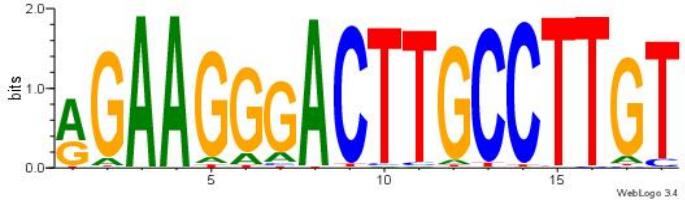

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.070969

Alignment:
TCTGGAGTGGACCTCCAGCA
-CTCRAATGTCCCTT-----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

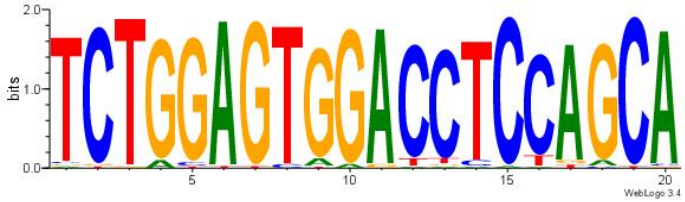

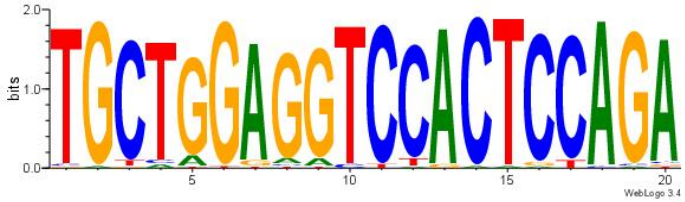

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.072655

Alignment:

```
ATGATCCAGCAATYCCACTH
CTCRAATGTCCCTT------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

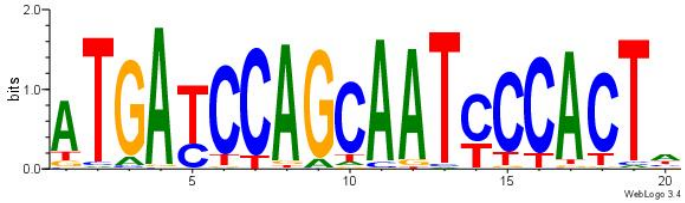

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

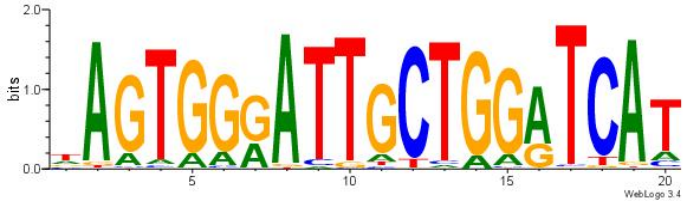

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0727071

Alignment:

```
CAAGTTGACACATAAAATTA
--AAGGGACATTKGAG----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

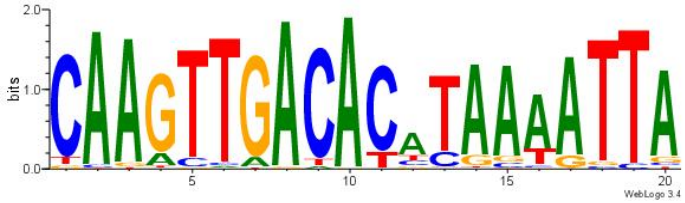

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

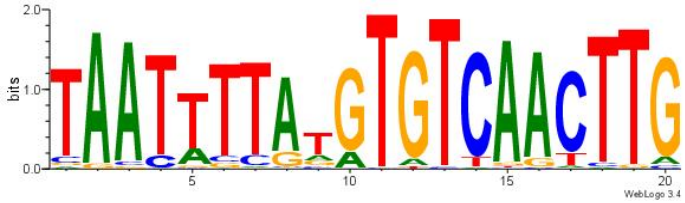

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.0733671

Alignment:
AATCAACCCTGGYRATCAAT
AAGGGACATTKGAG------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

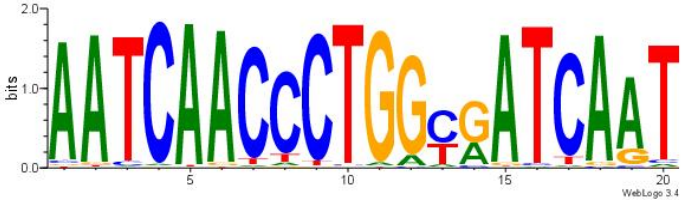

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

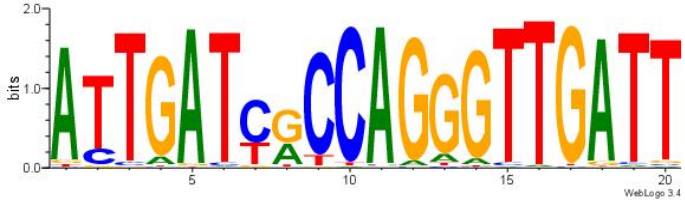

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.0739729

Alignment:
GTTGTGAGGATTAAATGAG
AAGGGACATTKGAG-----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

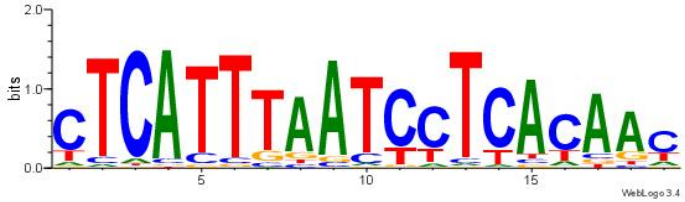

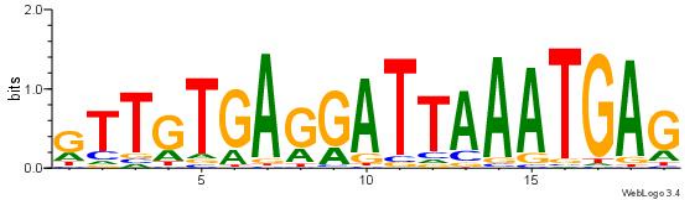

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0743669

Alignment:

```
TGAGKCAATTAAACCTCTT
---CTCRAATGTCCCTT--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

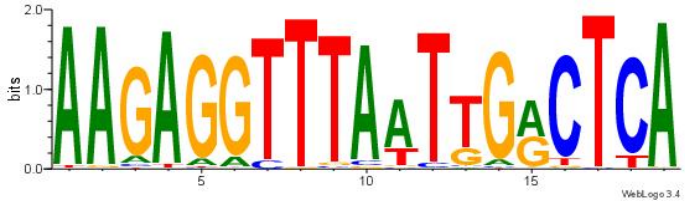

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

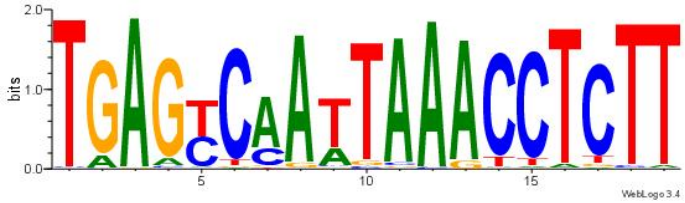

Dataset #:	1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0748709

Alignment:

```
TTTTCACATGCCTTTCT
--CTCRAATGTCCCTT-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

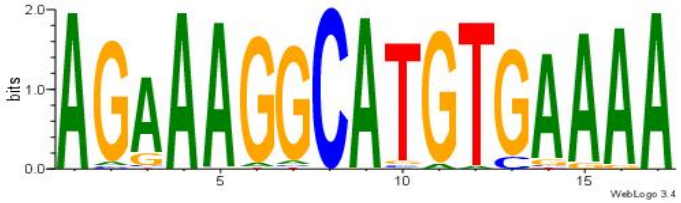

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

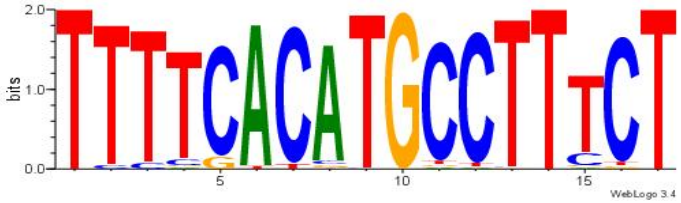

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0750676

Alignment:
ACTTTGGACTGTGGACTTTT
--AAGGGACATTKGAG----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

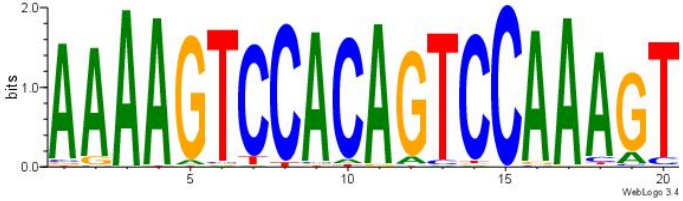

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

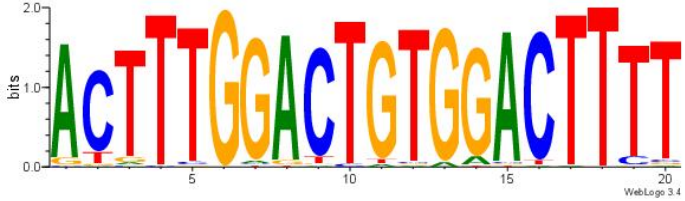

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.07559

Alignment:
TCCAAATGGGAGAAATTGGC
-----AAGGGACATTKGAG-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

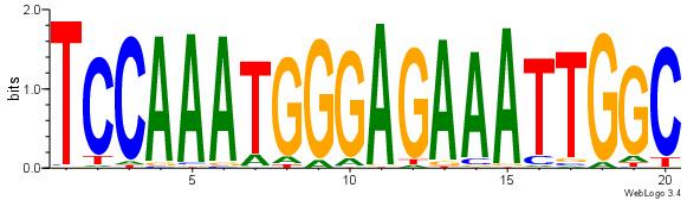

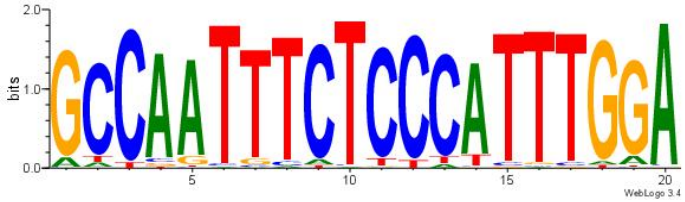

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0768148

Alignment:

```
ATAGGAATGCTTGTGATTTT
-AAGGGACATTKGAG-----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

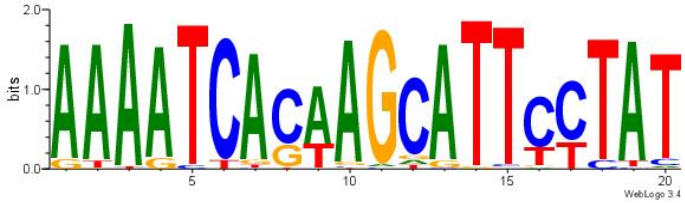

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

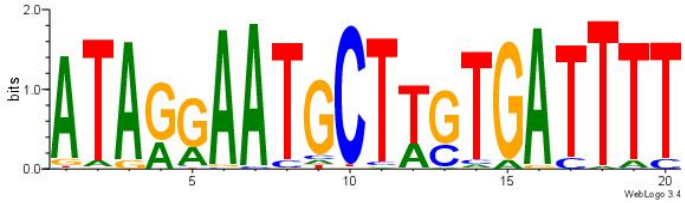

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0770179

Alignment:

```
GCTGTGTGACCTTGGGCAAG
---AAGGGACATTKGAG---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

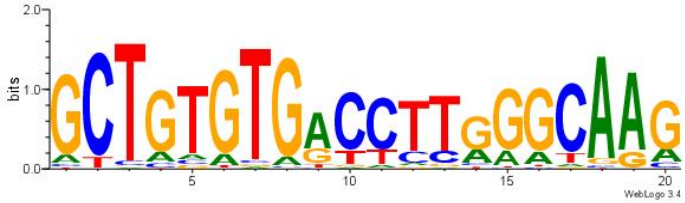

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

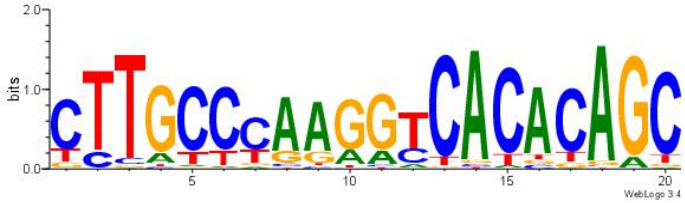

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.0777172

Alignment:
CMCAGTTCACAATAGGGTT
---AAGGGACATTKGAG--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

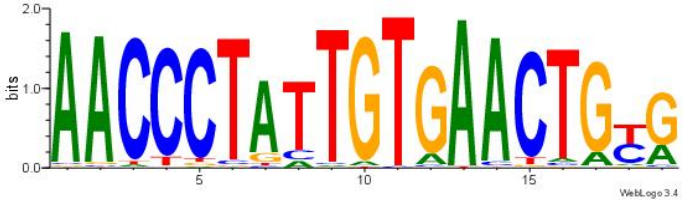

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

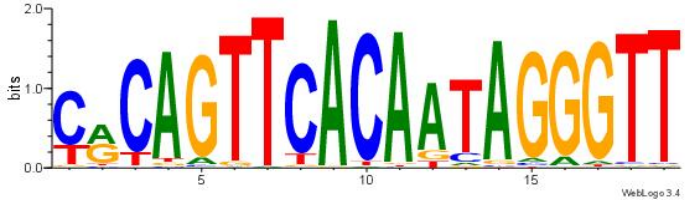

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0779733

Alignment:
CTCAGTGTTAATCTCCTGTC
-----CTCRAATGTCCCTT-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

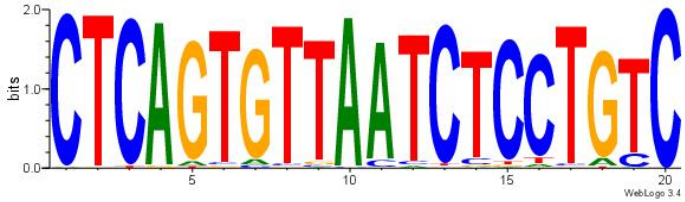

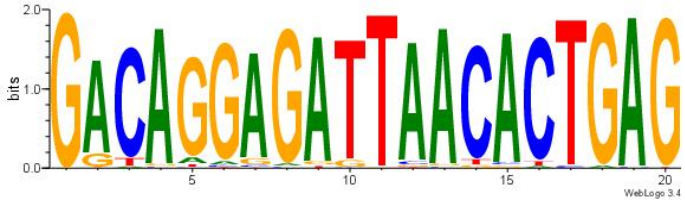

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0787534

Alignment:
CTCCTGCCTCAGCCTCCCRA
CTCRAATGTCCCTT------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

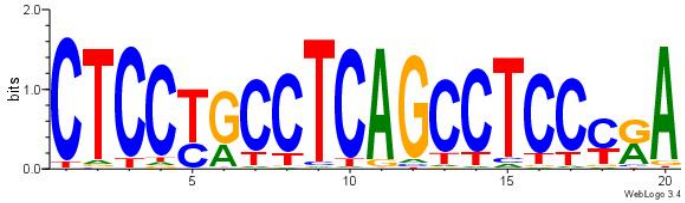

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

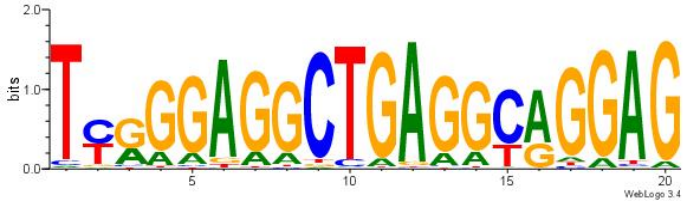

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0797626

Alignment:

```
AAGTCCAAGATCAAGGTGYY
----CTCRAATGTCCCTT--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

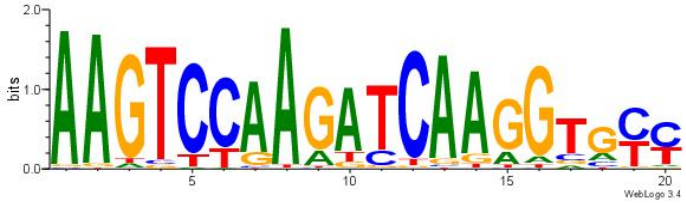

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

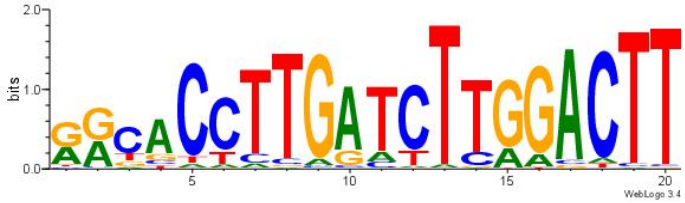

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.0804119

Alignment:
CCCTACTGTTCTCY
CTCRAATGTCCCTT

Original motif Consensus sequence: CCCTACTGTTCTCY

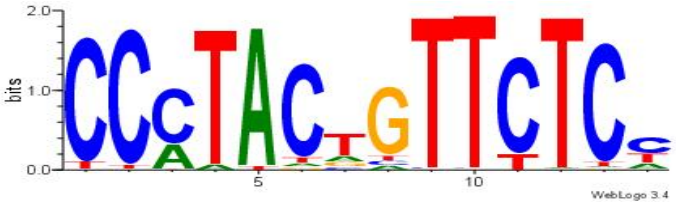

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0806089

Alignment:
CAACATGGATGRARCTGGAG
---CTCRAATGTCCCTT---

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

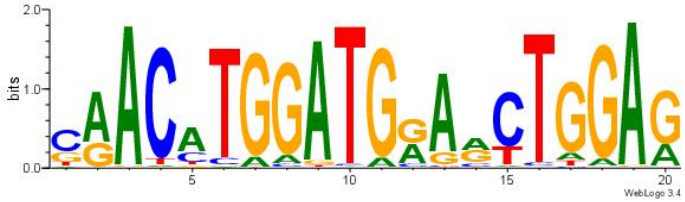

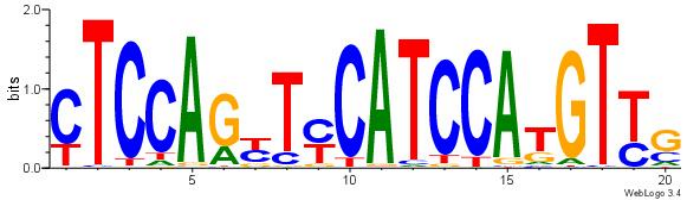

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0814374

Alignment:

```
ACCTGGAAAATCGGGTCACT
-AAGGGACATTKGAG-----
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

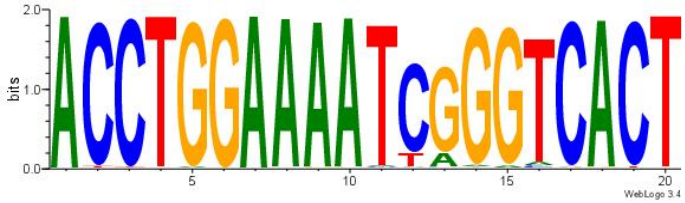

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

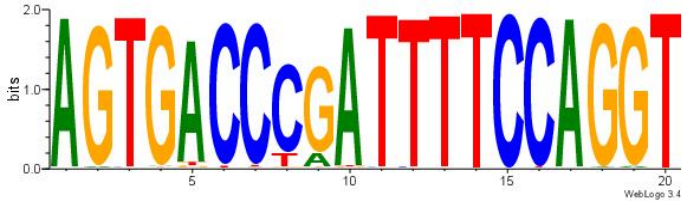

Dataset #:	1

Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0823016

Alignment:

```
CAATGATAGACTGGAT
--AAGGGACATTKGAG
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

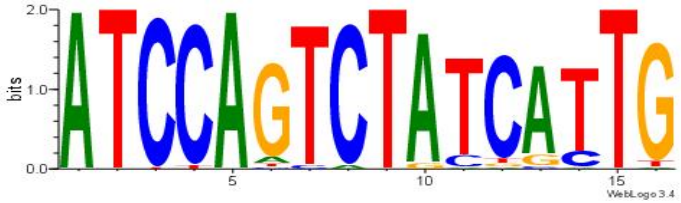

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

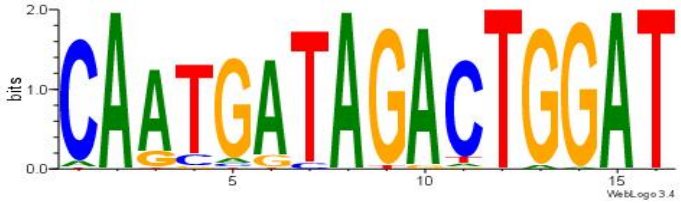

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14

Similarity score: 0.082614

Alignment:
GTGTCKGGAGTTTGTTCCTT
------CTCRAATGTCCCTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

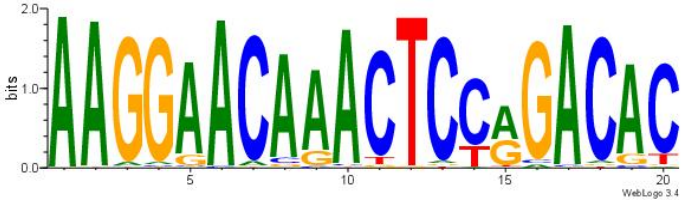

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

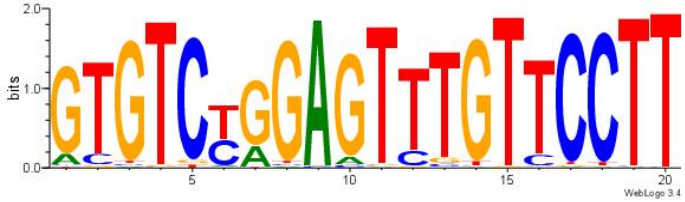

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0828414

Alignment:
CATTTCCAWCTGAGGTAC
AAGGGACATTKGAG----

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence:
GTACCTCAGWTGGAAATG

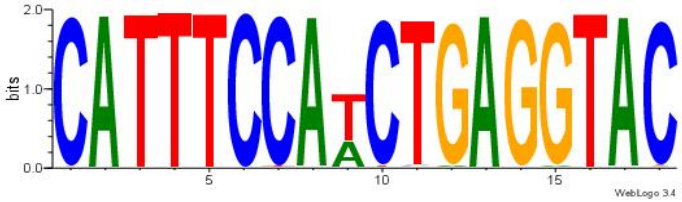

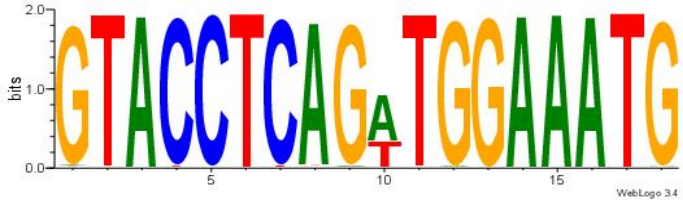

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0833546

Alignment:

```
GACATGAGCTGGCGCTTG
---CTCRAATGTCCCTT-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

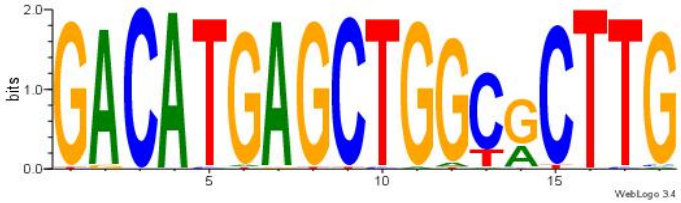

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

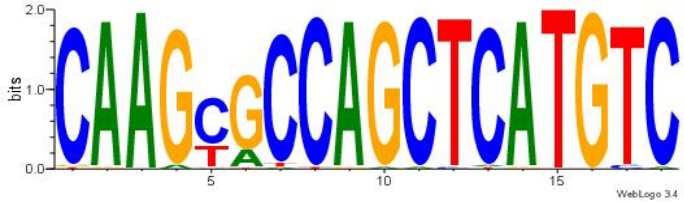

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0835046

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-CTCRAATGTCCCTT-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

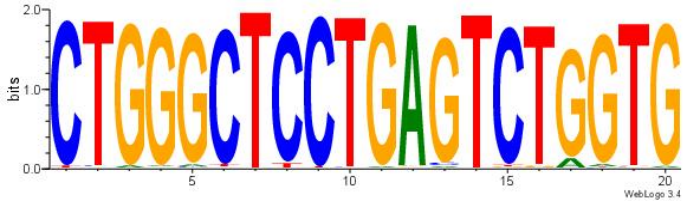

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

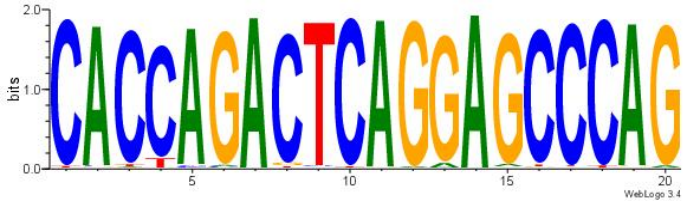

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.0838916

Alignment:
MGGGATATAATCTCCTGGTG
----CTCRAATGTCCCTT--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

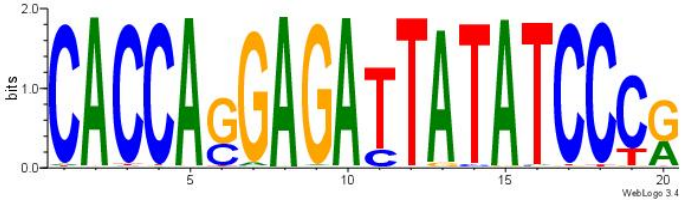

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

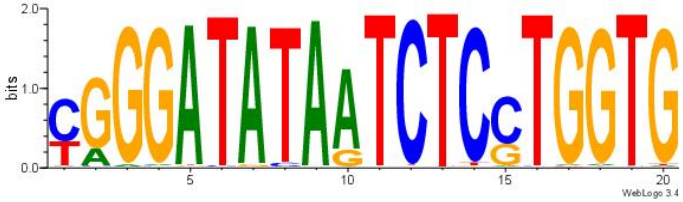

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0842695

Alignment:
ATCATTCTTATGCCTTTG
----CTCRAATGTCCCTT

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

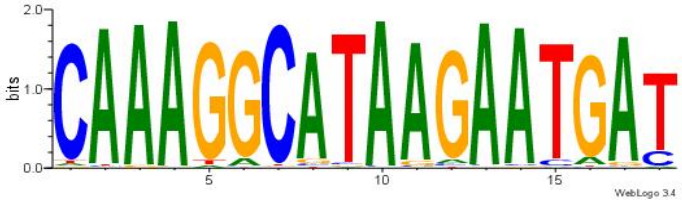

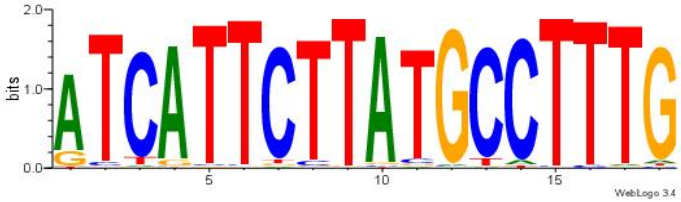

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0843196

Alignment:

```
AAAGAGAGTCAGCGAAG
---AAGGGACATTKGAG
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

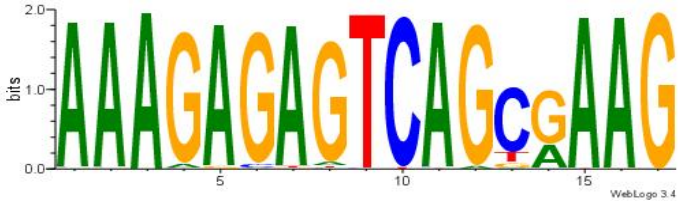

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

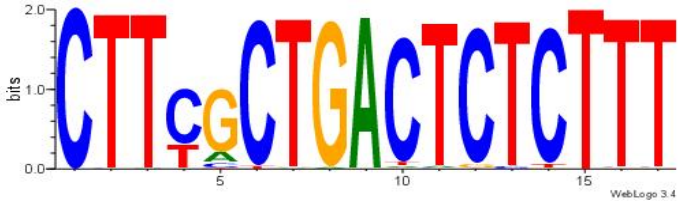

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0848402

Alignment:

```
GTGCCAGGCACTGTKCTARG
----AAGGGACATTKGAG--
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

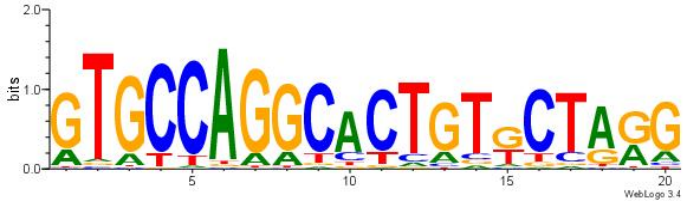

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

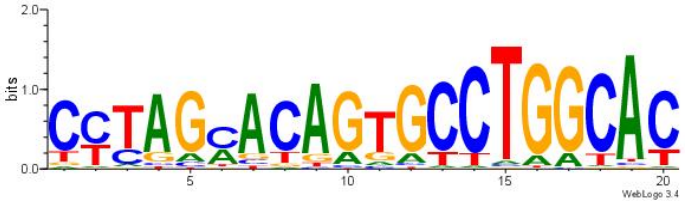

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.0854153

Alignment:
TGTATTAGTCMMTT
CTCRAATGTCCCTT

Original motif Consensus sequence: AAYRGACTAATACA

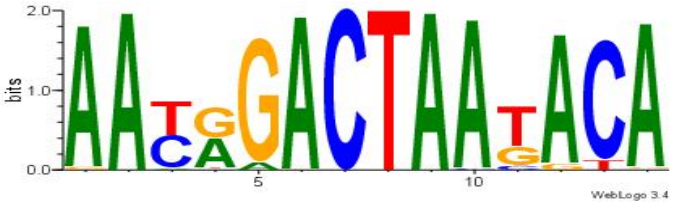

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

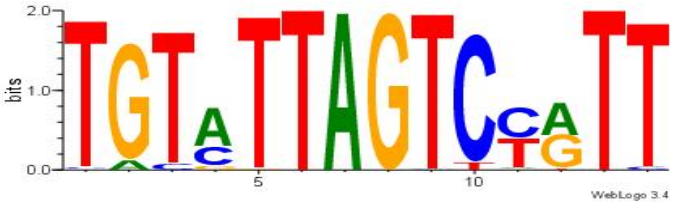

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0854286

Alignment:
KACATTGATTTTGTATC
--AAGGGACATTKGAG-

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

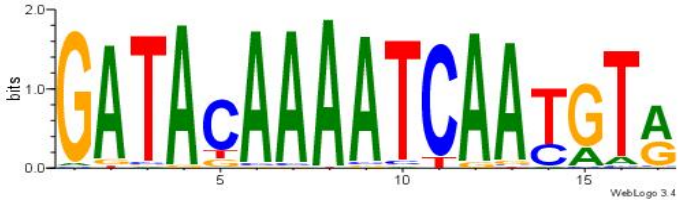

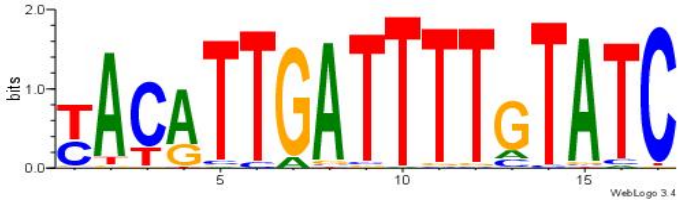

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0856868

Alignment:

```
AAATTACCCAGTCTCAGGTA
-CTCRAATGTCCCTT-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

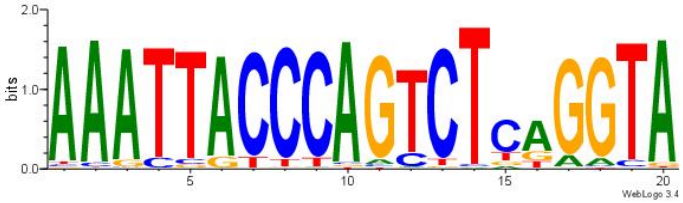

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

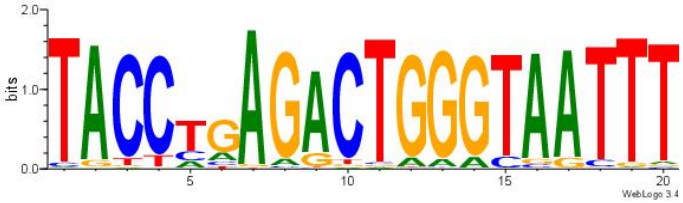

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0861417

Alignment:

```
AAGTTCTKGGKTACATGTGC
-----AAGGGACATTKGAG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

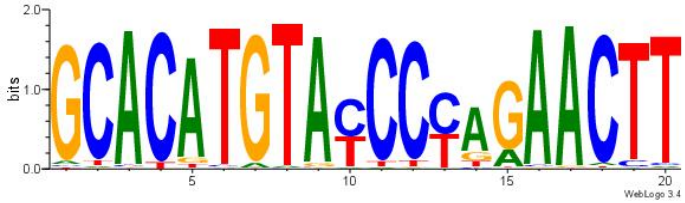

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

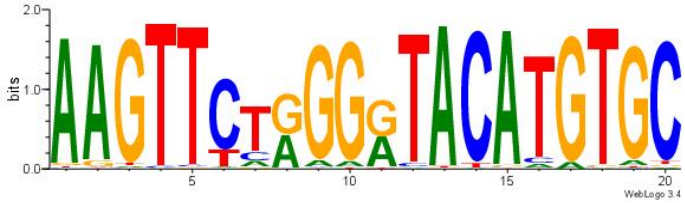

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.0862242

Alignment:
TAAGTGGGAGCTAARC
-AAGGGACATTKGAG-

Original motif Consensus sequence: TAAGTGGGAGCTAARC

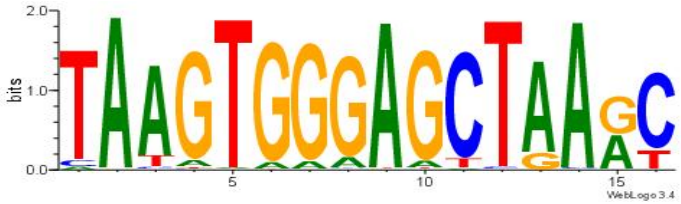

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

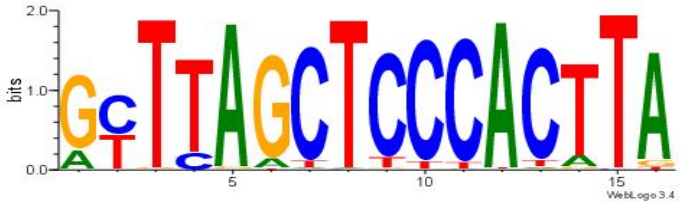

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0870159

Alignment:
GCCAGTCACAAAARGACAMA
CTCRAATGTCCCTT------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

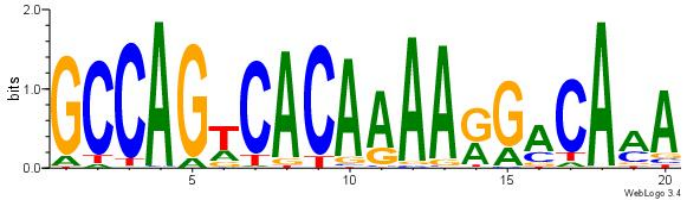

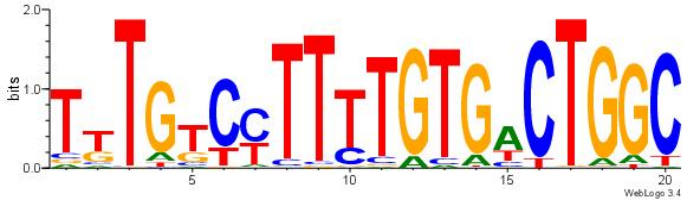

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0871428

Alignment:

```
TAAAAGACTACAWATTGGGT
------AAGGGACATTKGAG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

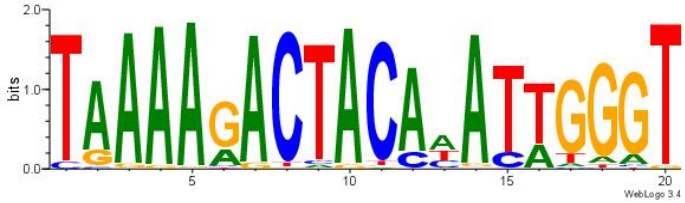

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

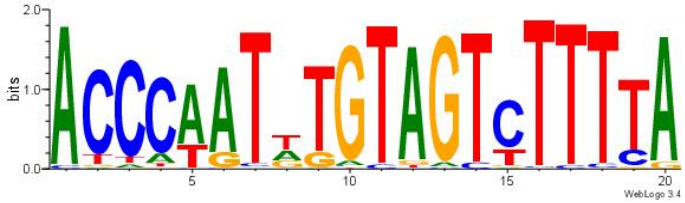

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0872534

Alignment:

```
CCCYAATACTGCGCTTTTC
---CTCRAATGTCCCTT--
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

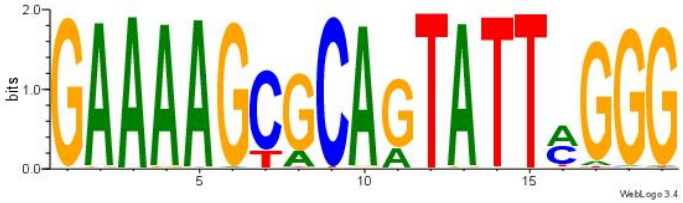

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

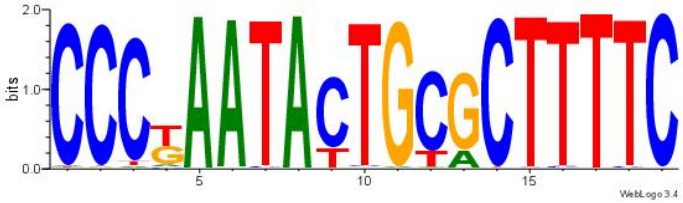

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.0875127

Alignment:
AAAMAMMKMATGTTCTCACT
----CTCRAATGTCCCTT--

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

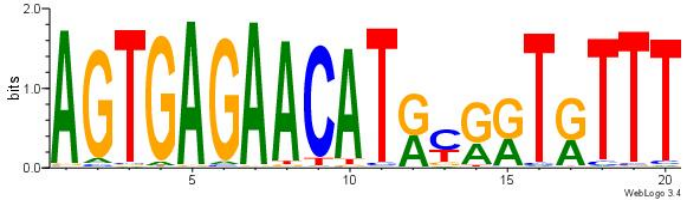

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

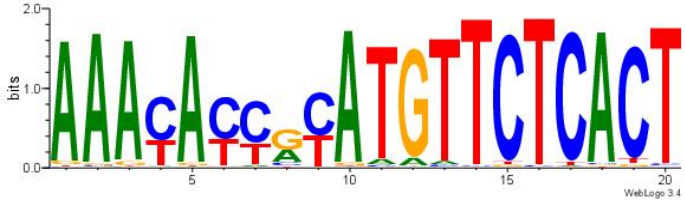

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0884074

Alignment:
ATGTGGAGGTGGAAGACAGT
-AAGGGACATTKGAG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

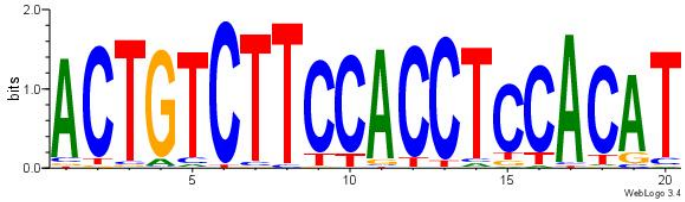

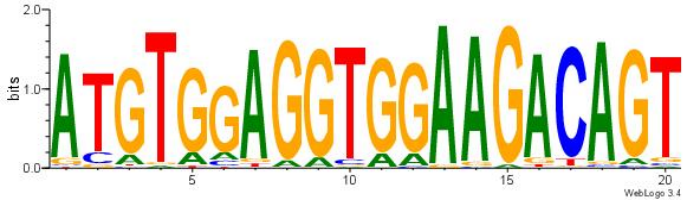

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0884757

Alignment:

```
GTTTAACCATTGAGGGCCAG
AAGGGACATTKGAG------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

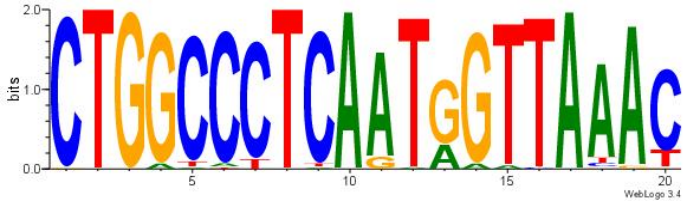

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

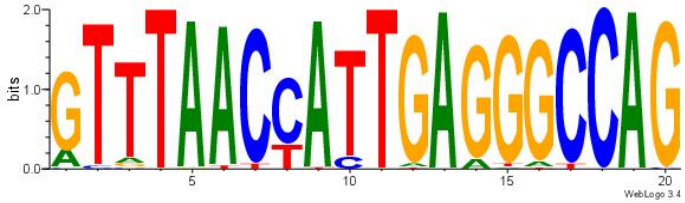

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0884876

Alignment:

```
GTTATTAATTGGCCTAATTT
---CTCRAATGTCCCTT---
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

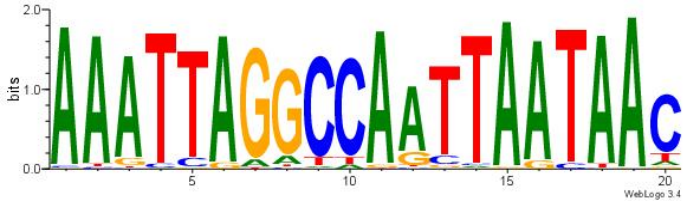

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1 Motif ID: 167 Motif name: Motif 167

Original motif Consensus sequence: CCGCTCCTGTGC

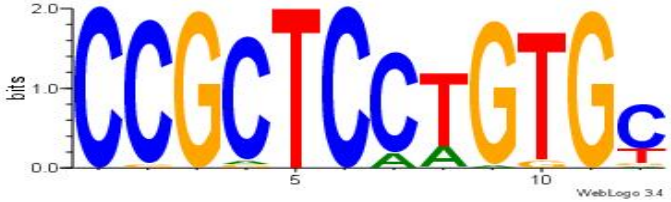

Reverse complement motif Consensus sequence: GCACAGGAGCGG

Best Matches for Motif ID 167 (Highest to Lowest)

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0721943

Alignment:

```
AGGAACAGCTCCRGTCTAC
-----CCGCTCCTGTGC--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

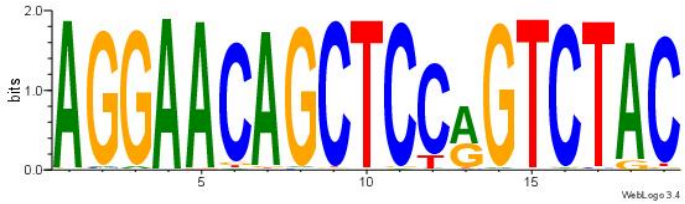

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

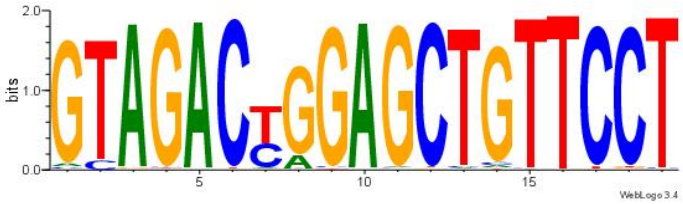

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0736876

Alignment:

```
CCGCTGCACTGTGGGAGCCC
CCGCTCCTGTGC--------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

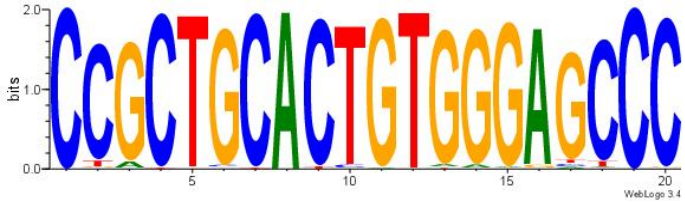

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

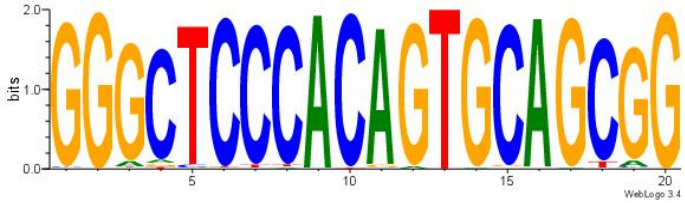

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0807459

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
--CCGCTCCTGTGC------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

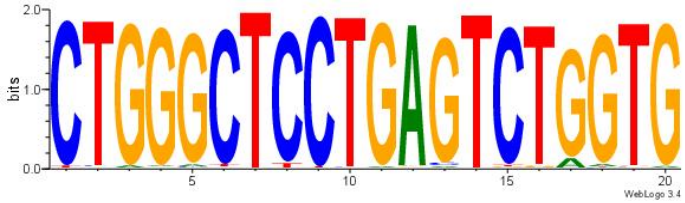

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

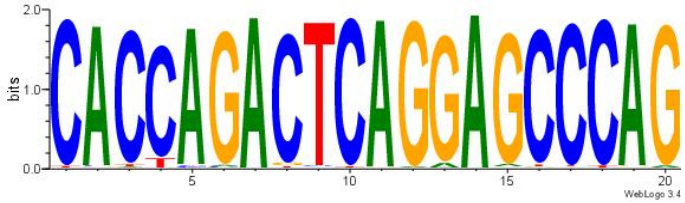

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.082955

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
-------CCGCTCCTGTGC-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

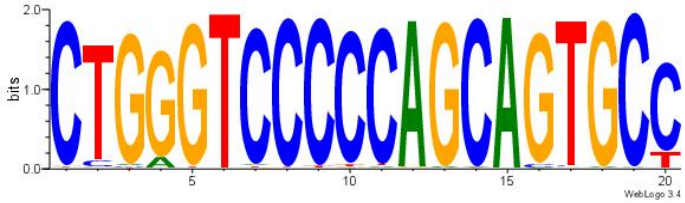

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

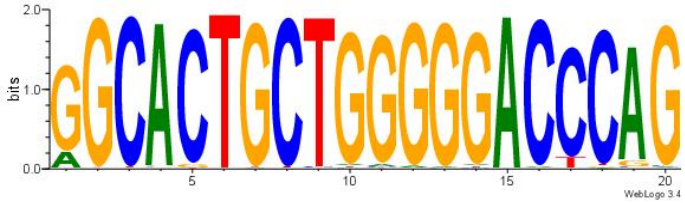

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0877385

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
---CCGCTCCTGTGC-----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

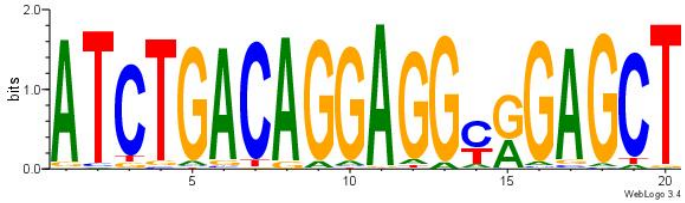

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

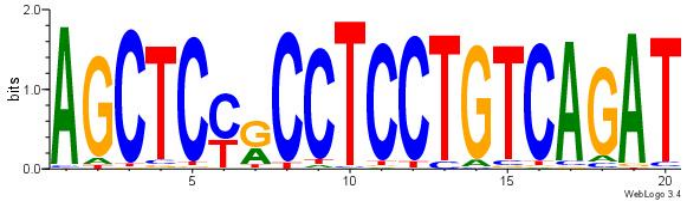

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 12
Similarity score: 0.0928234

Alignment:
GCAGAGGCGCTCCT
--GCACAGGAGCGG

Original motif Consensus sequence: GCAGAGGCGCTCCT

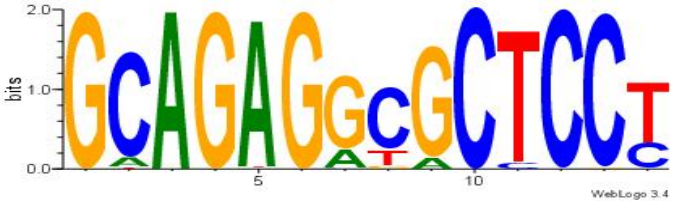

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

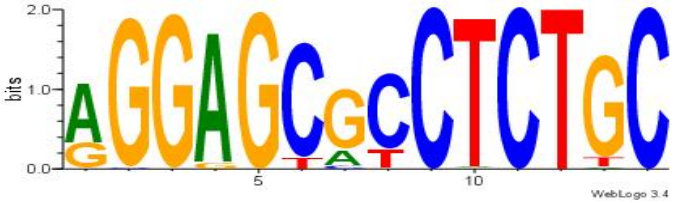

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.0937871

Alignment:
GCCGGGRAGAGGCGCTCCT
GCACAGGAGCGG-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

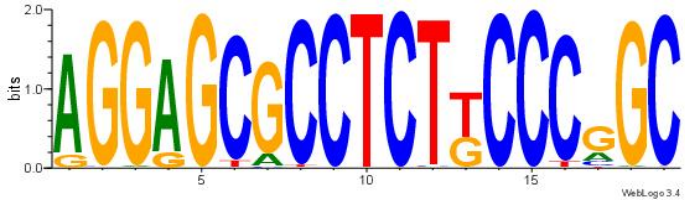

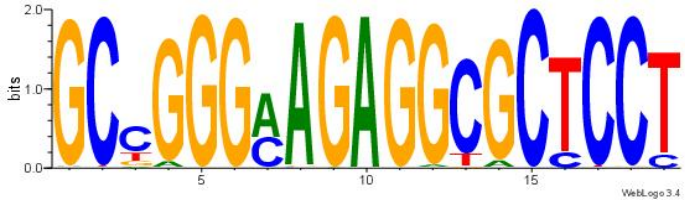

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0950345

Alignment:

```
AATGAKATCATGTCYTTTGC
CCGCTCCTGTGC--------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

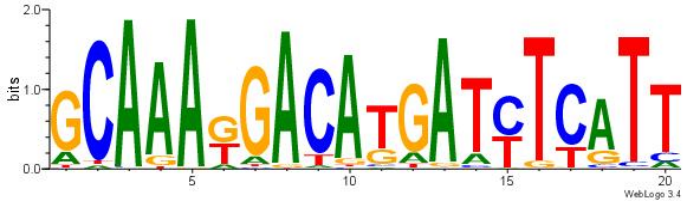

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

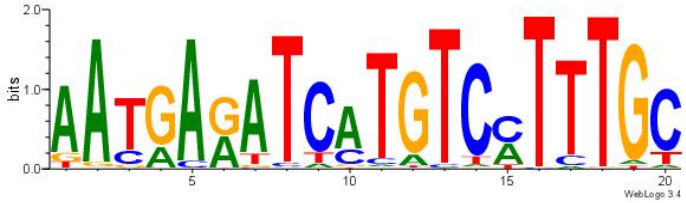

Dataset #:	1

Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0950643

Alignment:

```
CGCACTCCTCAGCC
-CCGCTCCTGTGC-
```

Original motif Consensus sequence: CGCACTCCTCAGCC

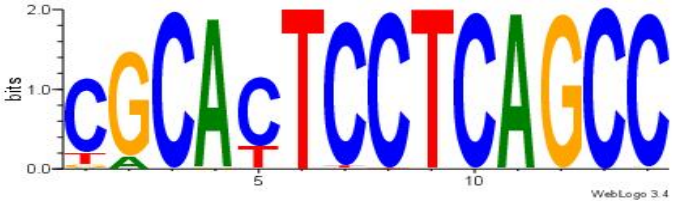

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

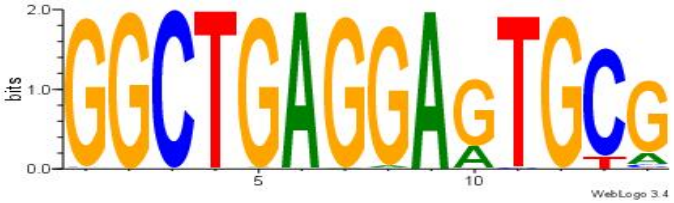

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0958781

Alignment:
GAAGGCAGCTAAGGCCCGGY
-GCACAGGAGCGG-------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

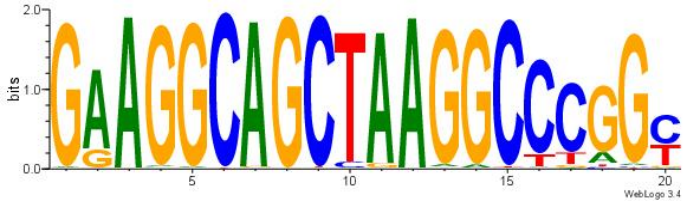

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

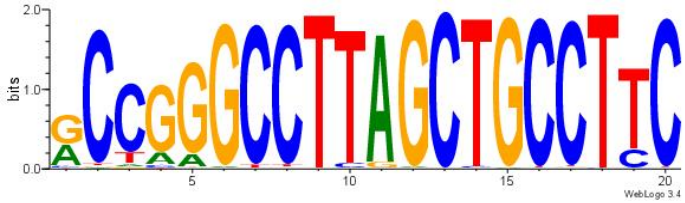

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0973504

Alignment:
CACTTCCCAGACGGGGCG
--GCACAGGAGCGG----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

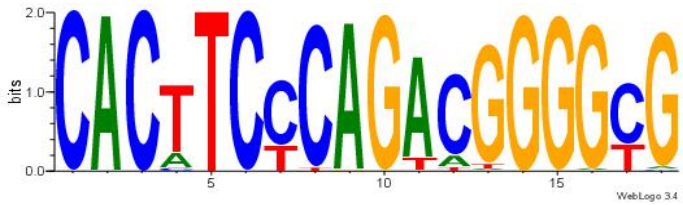

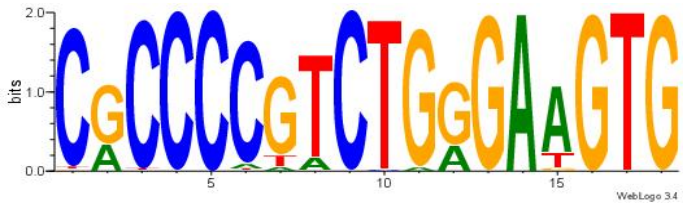

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0975161

Alignment:

```
CMCAGTTCACAATAGGGTT
------GCACAGGAGCGG-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

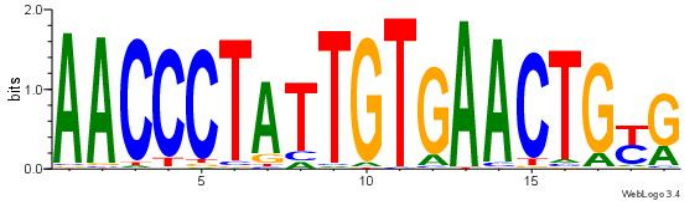

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

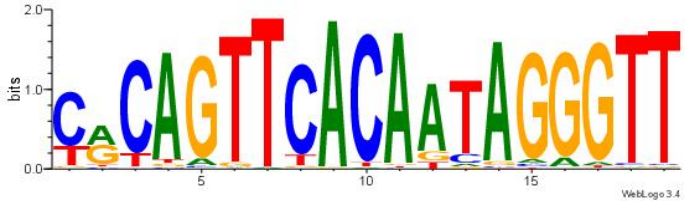

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0976185

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
GCACAGGAGCGG--------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

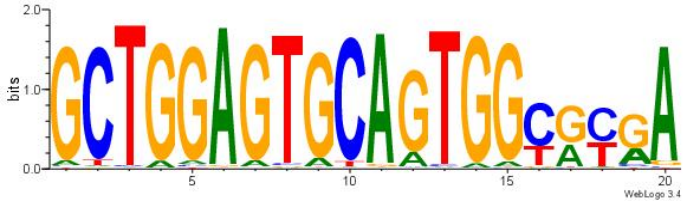

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

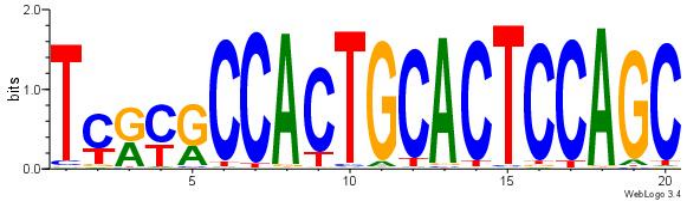

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0985762

Alignment:
TTGTCCCACTGGAAGGTCTT
-----GCACAGGAGCGG---

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

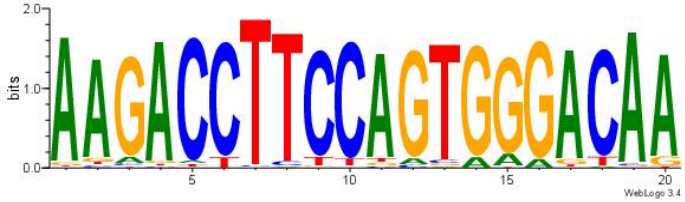

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

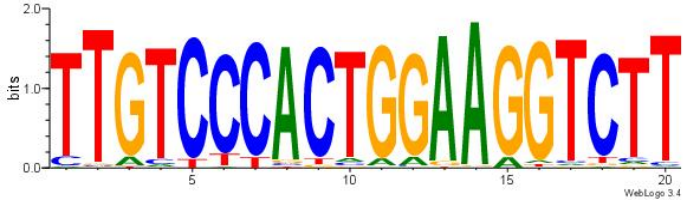

Dataset #: 1
Motif ID: 200
Motif name: Motif 200
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0986402

Alignment:
TCCCAGACGGGGT
GCACAGGAGCGG-

Original motif Consensus sequence: ACCCCGTCTGGGA

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

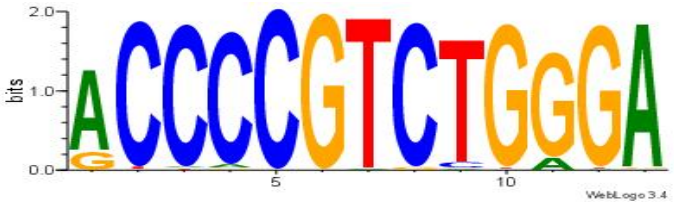

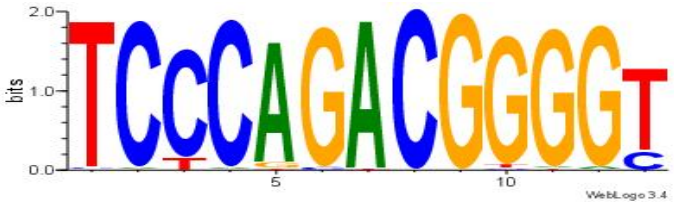

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0989517

Alignment:

```
TCCCTCCCGGACGGGGYGGC
CCGCTCCTGTGC--------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

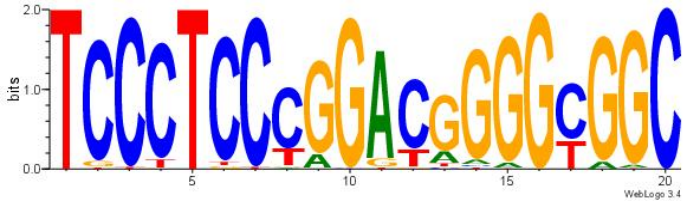

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

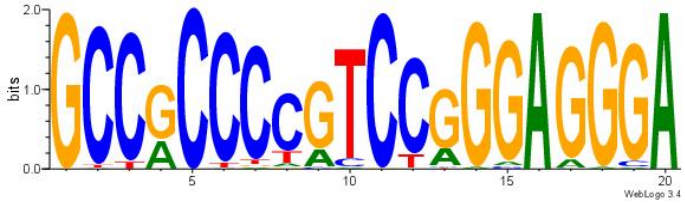

Dataset #:	1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0990166

Alignment:

```
GCTTAGCACCYGGGCCAGC
---CCGCTCCTGTGC----
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

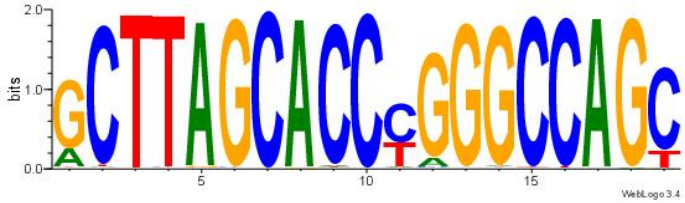

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

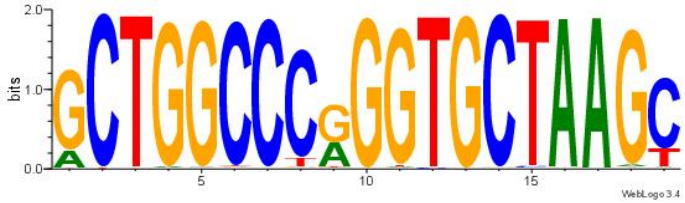

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.0992053

Alignment:
GCGMGCGGGAACCGGGGCT
--GCACAGGAGCGG-----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

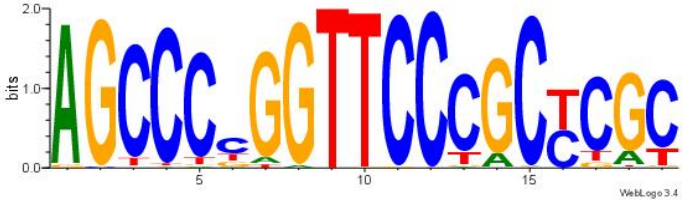

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

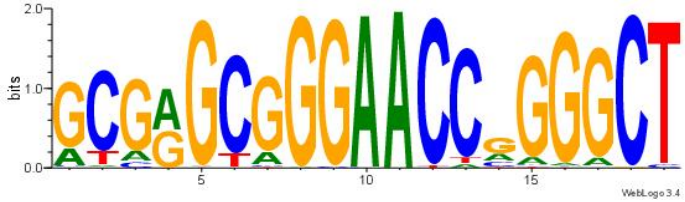

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.100125

Alignment:
AGGCCCCAGTGTSTGTTGTT
CCGCTCCTGTGC--------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

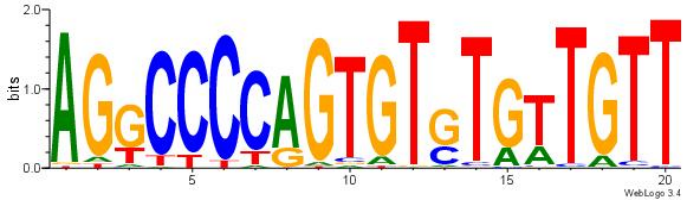

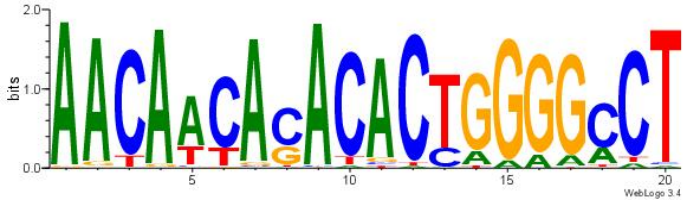

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.101365

Alignment:

```
ACTCCCTAGTGAGATGAACC
--------CCGCTCCTGTGC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

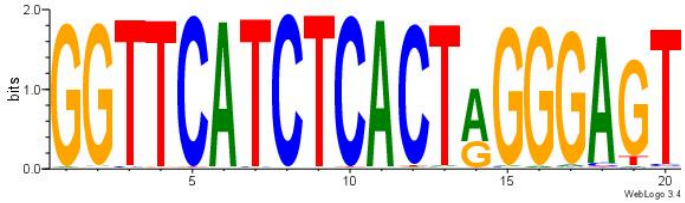

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

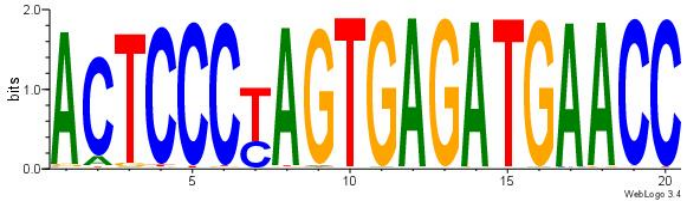

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.101422

Alignment:

```
GTGCCAGGCACTGTKCTARG
----CCGCTCCTGTGC----
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

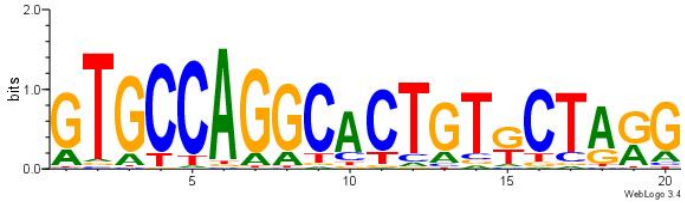

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

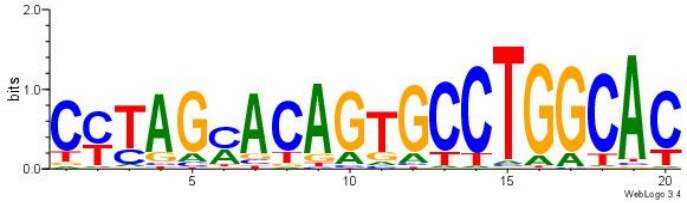

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.101469

Alignment:
CCCGAAGCTGCRYRCTCGGT
-CCGCTCCTGTGC-------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

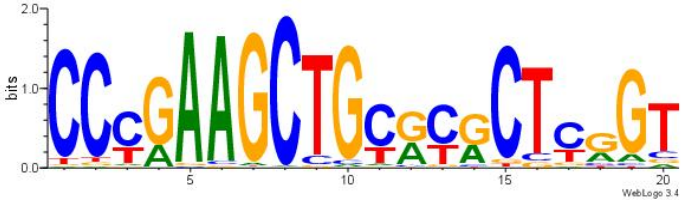

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

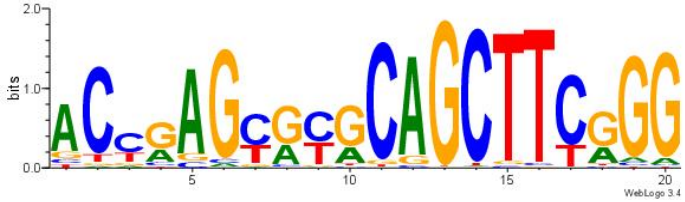

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.101711

Alignment:
ACATCCCAGACGATGGGCG
--GCACAGGAGCGG-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

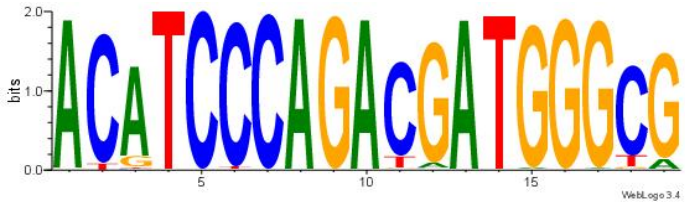

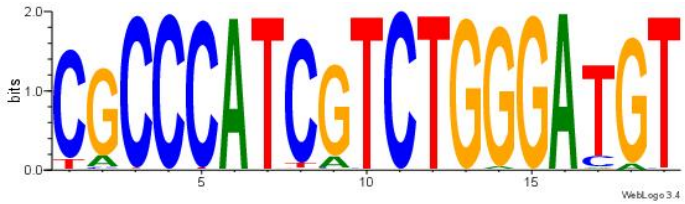

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.101921

Alignment:

```
TACACCCTCCGCAGCC
-CCGCTCCTGTGC---
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

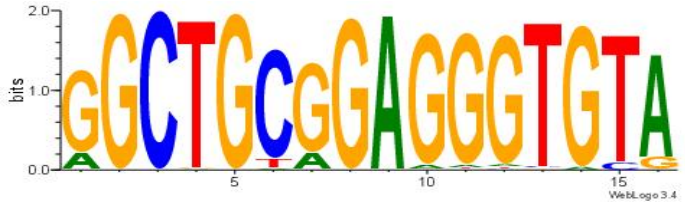

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

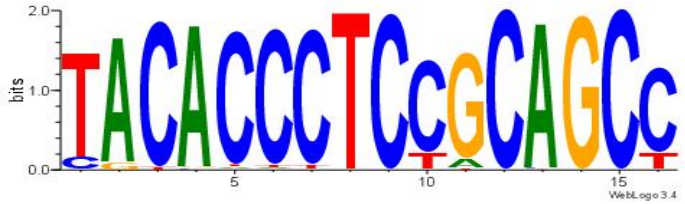

Dataset #:	1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.10231

Alignment:

```
TCAGGAGTGAAGCTGC
---GCACAGGAGCGG-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

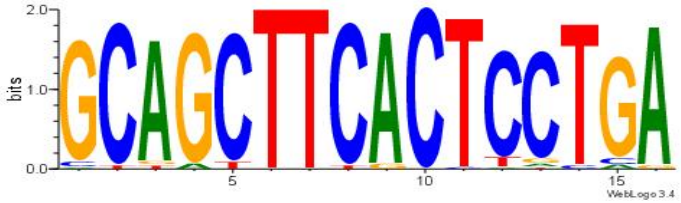

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

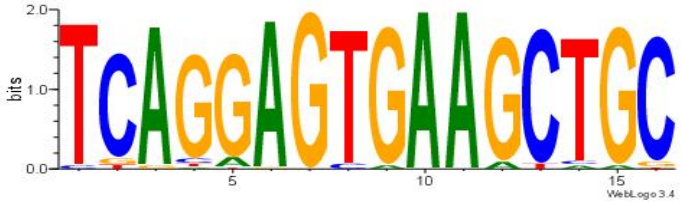

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.103341

Alignment:
GGGTGCAGGMGGGCTGAGT
--GCACAGGAGCGG-----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

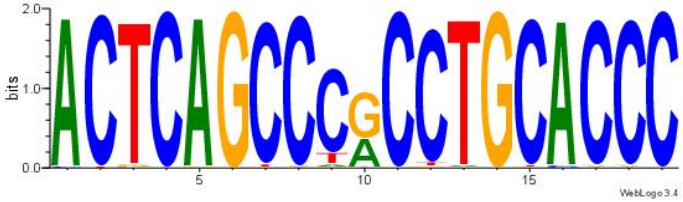

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

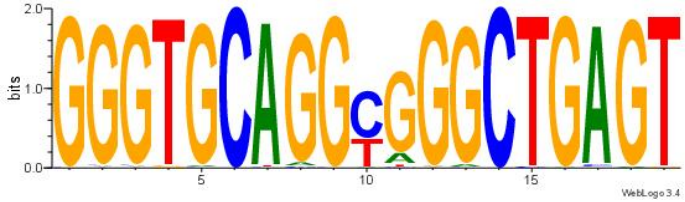

Dataset #: 1
Motif ID: 31
Motif name: Motif 31
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.103419

Alignment:
CCGTGCGCGAGCCG
CCGCTCCTGTGC--

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACC

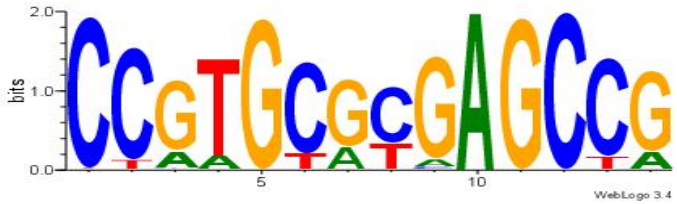

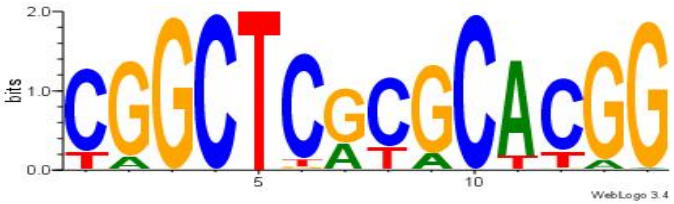

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.103812

Alignment:

```
AGCTCCCAGCGTGAGCGACG
----CCGCTCCTGTGC----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

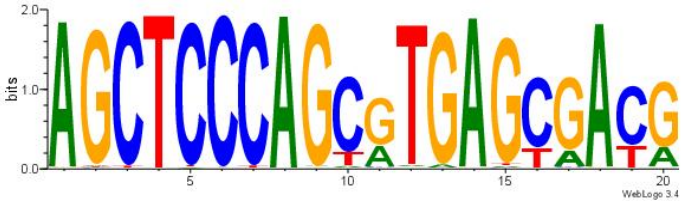

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

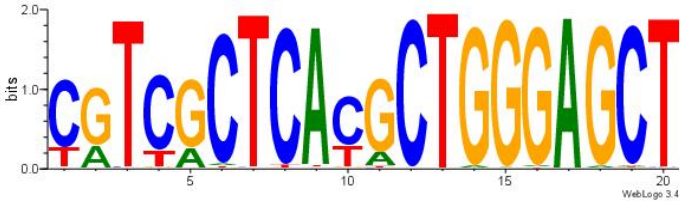

Dataset #: 1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.103942

Alignment:

```
CAAAGGCATAAGAATGAT
-----GCACAGGAGCGG-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

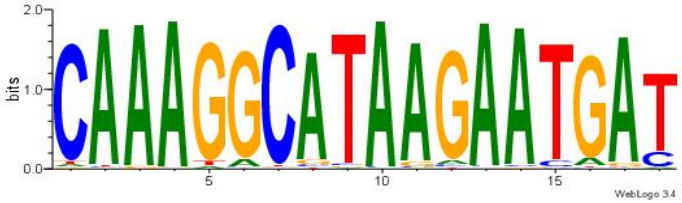

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

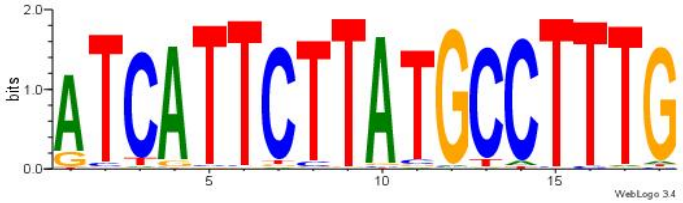

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.104021

Alignment:
TGCACTGCACCCAC
-GCACAGGAGCGG-

Original motif Consensus sequence: TGCACTGCACCCAC

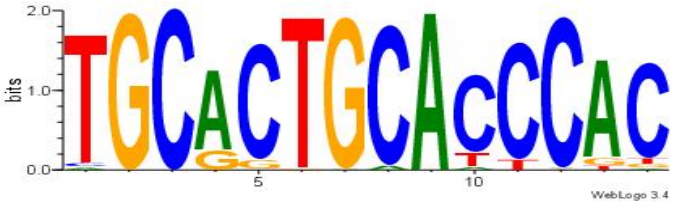

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

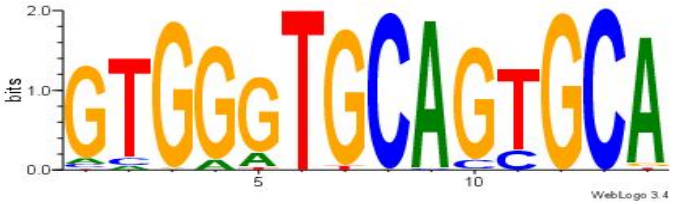

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.104285

Alignment:
GAAAAGCGCAGTATTMGGG
--GCACAGGAGCGG-----

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

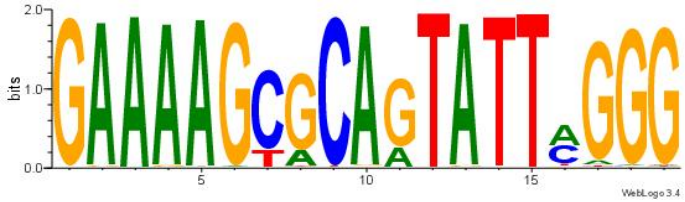

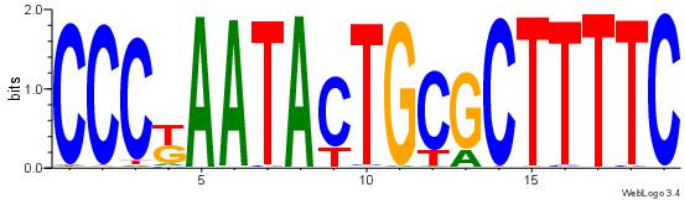

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.104514

Alignment:

```
CAAASCKGTCATAGGCCAT
----CCGCTCCTGTGC---
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

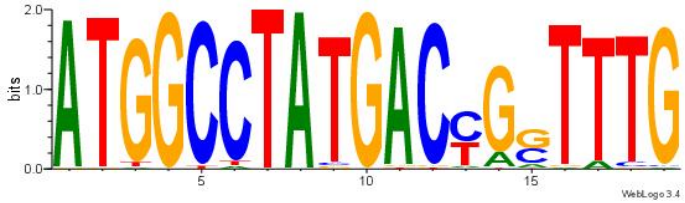

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

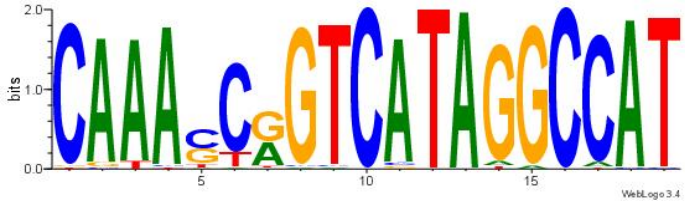

Dataset #:	1

Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.105845

Alignment:

```
TGGACCTGAGAGC
-GCACAGGAGCGG
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

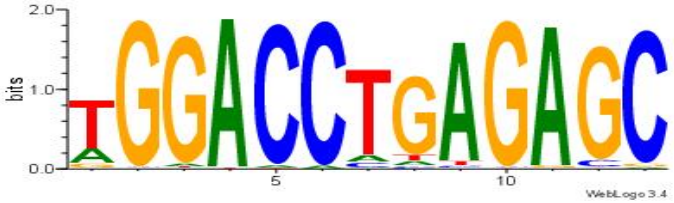

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.106672

Alignment:
CGCGGCGCTTGCGGGCCAGC
------CCGCTCCTGTGC--

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

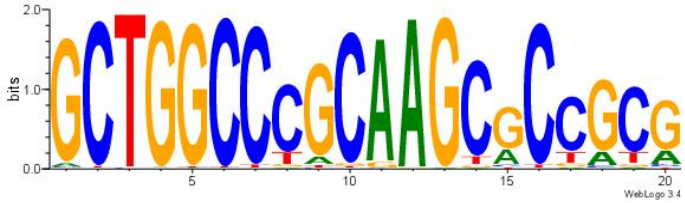

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

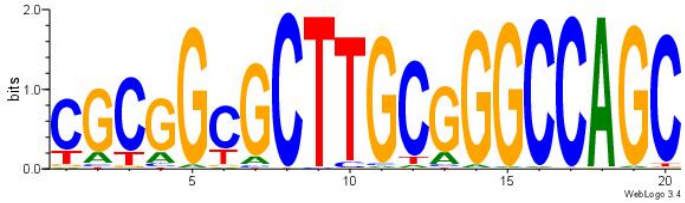

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.106738

Alignment:
ACCKTCGCGGTGAGTGTTAC
-CCGCTCCTGTGC-------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

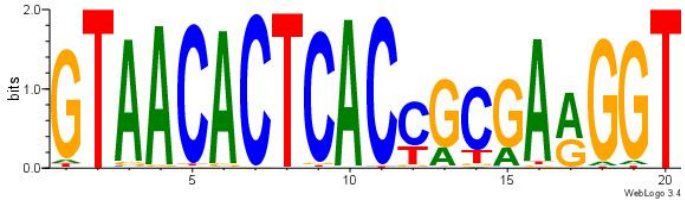

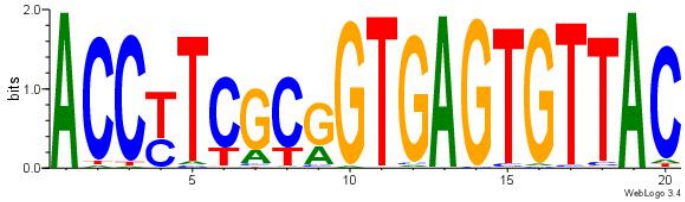

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.106781

Alignment:

```
GCTCCWGTGYGKCC
GCACAGGAGCGG--
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

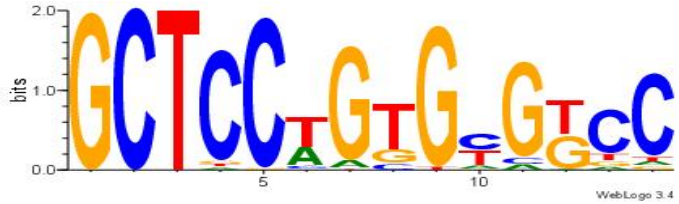

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	128

Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.106908

Alignment:

```
CCGCACTCGGAGCRG
GCACAGGAGCGG---
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

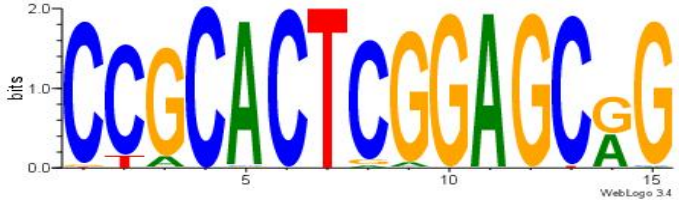

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

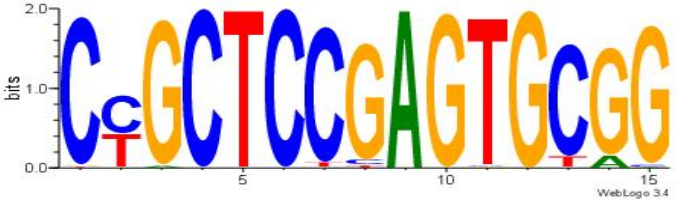

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.107224

Alignment:
TTMGTCCCAGAGGGGCACC
---GCACAGGAGCGG----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

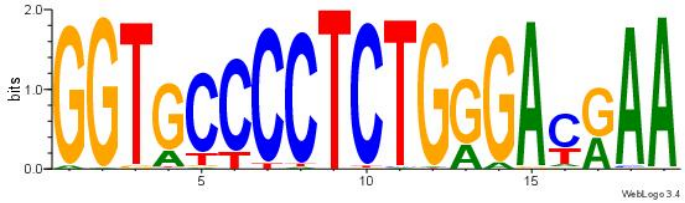

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

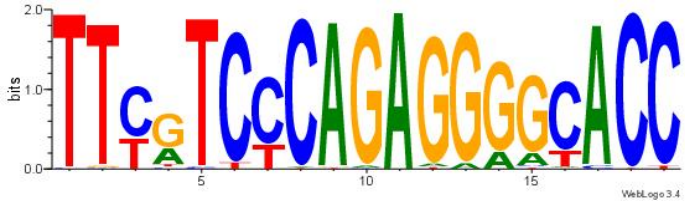

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.107691

Alignment:
CGAGCCTCCCCGAYGAGCGC
GCACAGGAGCGG--------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

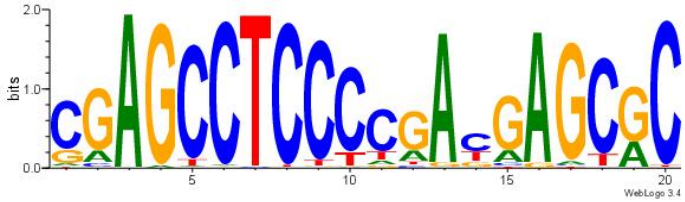

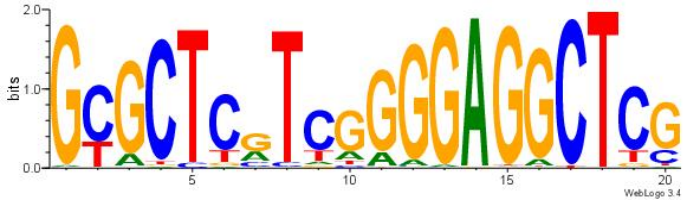

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.108427

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-----GCACAGGAGCGG---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

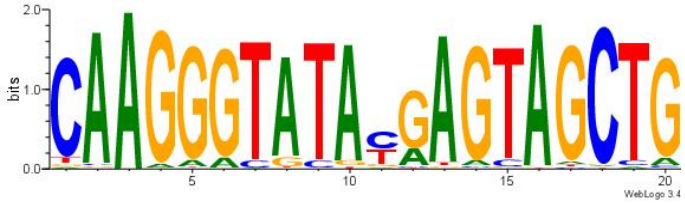

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

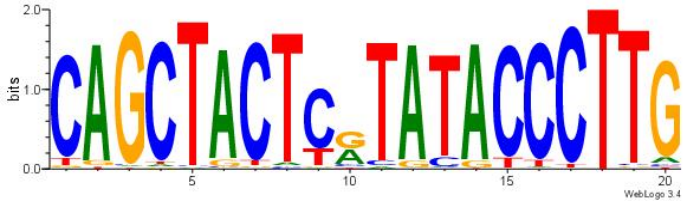

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.108691

Alignment:

```
KGGGCDGAGGGGCTCCT
---GCACAGGAGCGG--
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

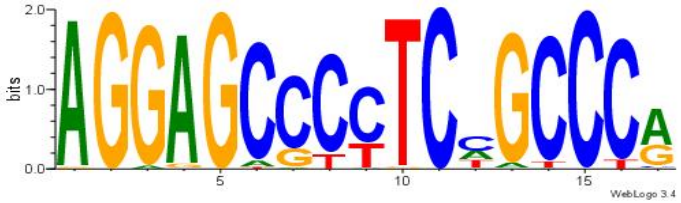

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.108856

Alignment:
GCTCTCAATTGGTCATT
CCGCTCCTGTGC-----

Original motif Consensus sequence: AATGACCAATTGAGAGC

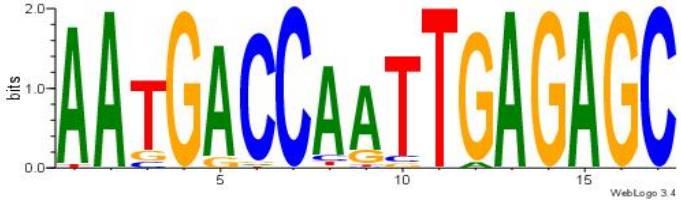

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

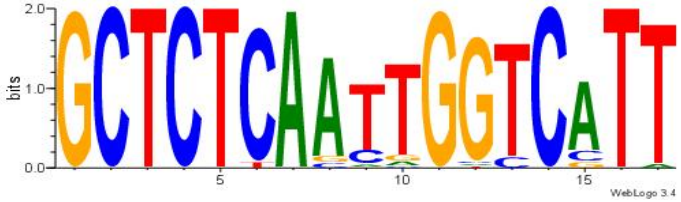

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.108877

Alignment:
AAAGCTGGAGCTATTATCTA
-GCACAGGAGCGG-------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

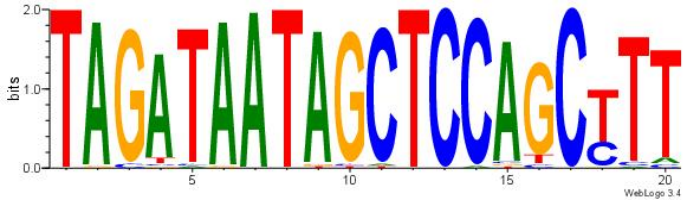

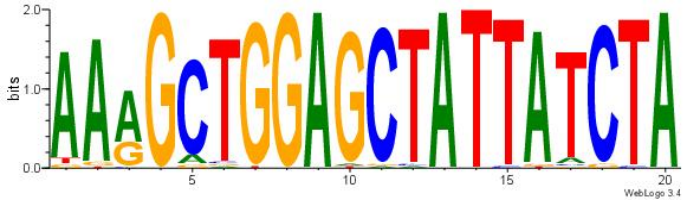

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.109524

Alignment:

```
CCCCGGGCAGTGAGGG
---CCGCTCCTGTGC-
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

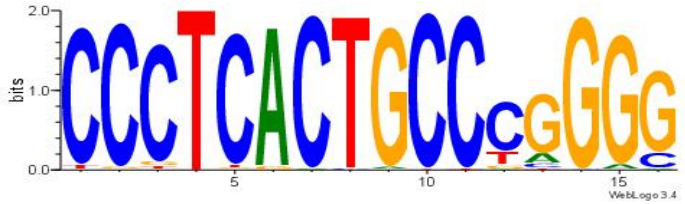

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

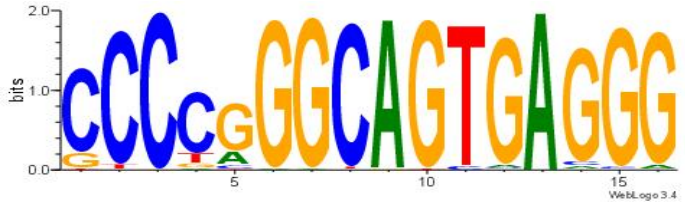

Dataset #:	1

Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.110178

Alignment:

```
AGGTCAGGAGTTC
-GCACAGGAGCGG
```

Original motif Consensus sequence: AGGTCAGGAGTTC

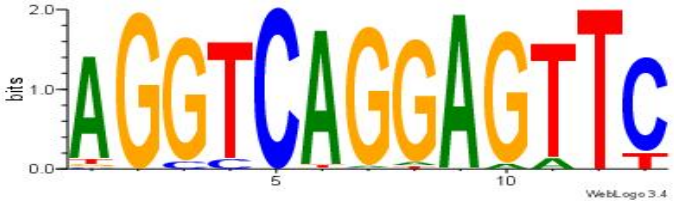

Reverse complement motif Consensus sequence: GAACTCCTGACCT

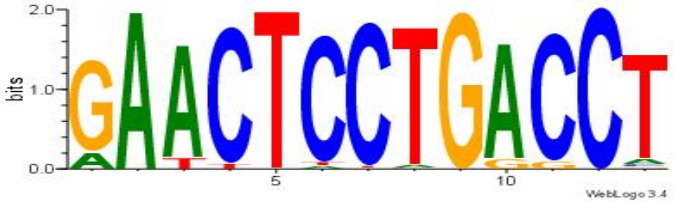

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.110439

Alignment:
CCACCACAGCTCAAGGAGGC
GCACAGGAGCGG--------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

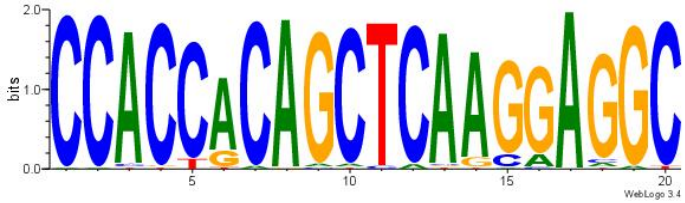

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

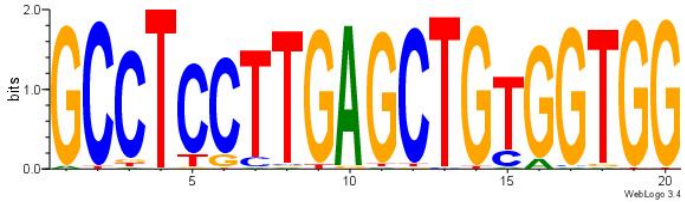

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.11061

Alignment:
AGAAATCGAGCRCAGCGCCG
-------GCACAGGAGCGG-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

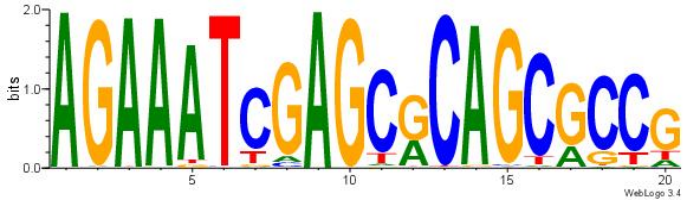

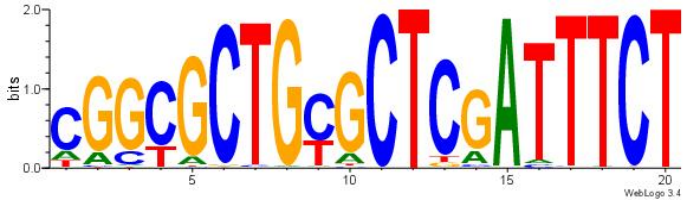

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.111269

Alignment:

```
TCACKMGGGAAGCGCAAG
GCACAGGAGCGG------
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

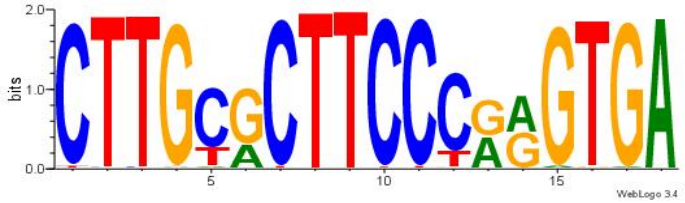

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

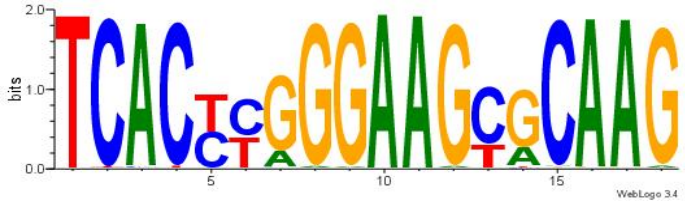

Dataset #:	1

Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.112532

Alignment:

```
AGCCTCCYGAGTA
CCGCTCCTGTGC-
```

Original motif Consensus sequence: AGCCTCCYGAGTA

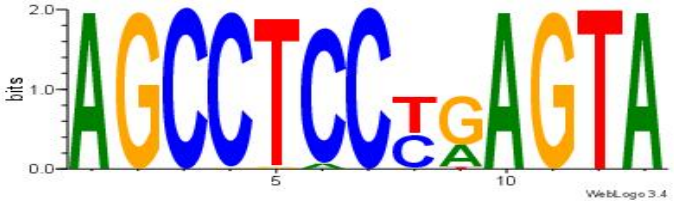

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

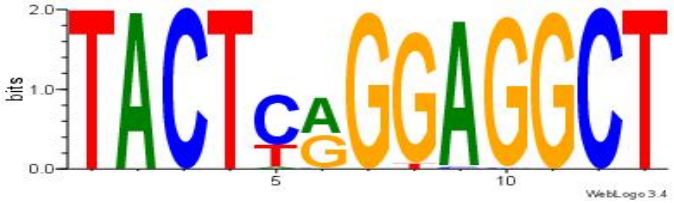

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.112807

Alignment:
CGGCTTCATTCTTGAAGTC
CCGCTCCTGTGC-------

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

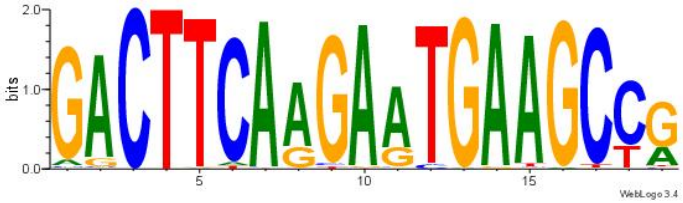

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

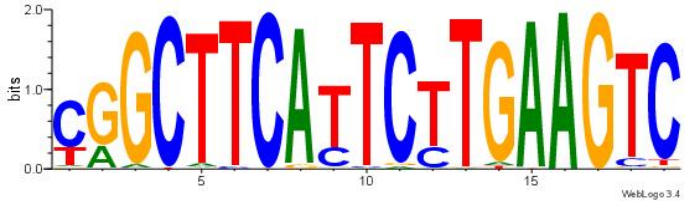

Dataset #: 1 Motif ID: 168 Motif name: Motif 168

Original motif Consensus sequence: AGGTATTTCTCCCACC

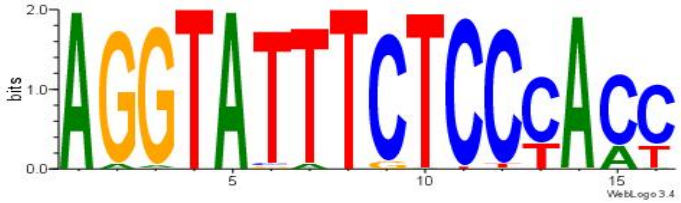

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

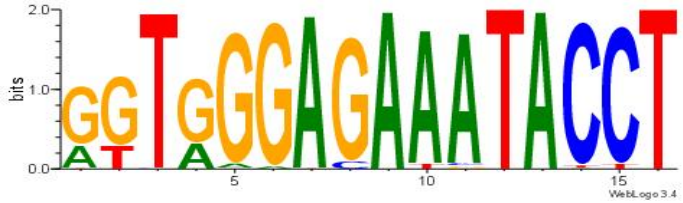

Best Matches for Motif ID 168 (Highest to Lowest)

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0930663

Alignment:

```
GAAAGGGAACTCCCTGACCC
---AGGTATTTCTCCCACC-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

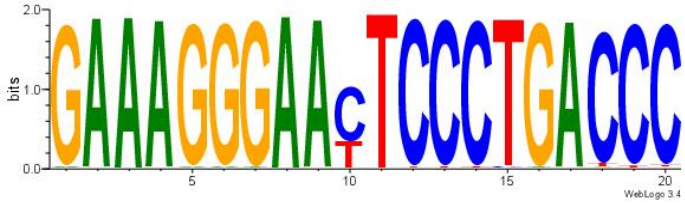

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

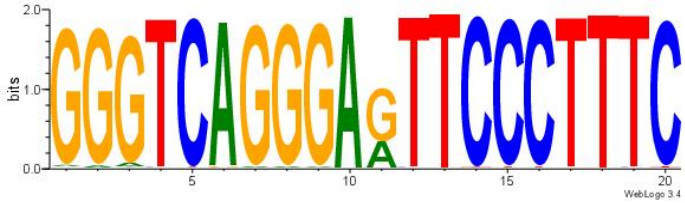

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.0952107

Alignment:

```
TCCAAATGGGAGAAATTGGC
----GGTGGGAGAAATACCT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

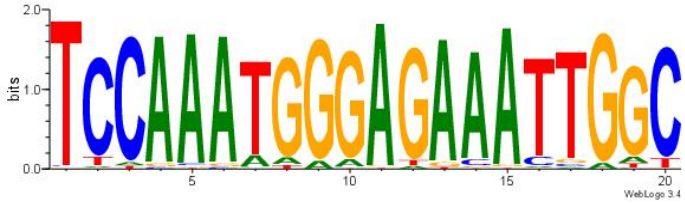

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

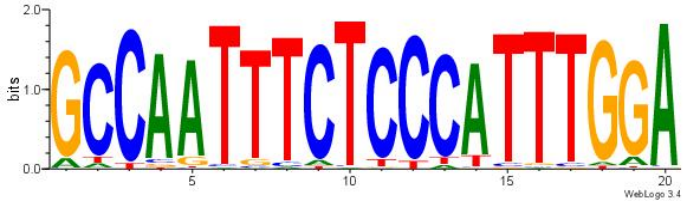

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0971787

Alignment:

```
GTAGACKGGAGCTGTTCCT
---GGTGGGAGAAATACCT
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

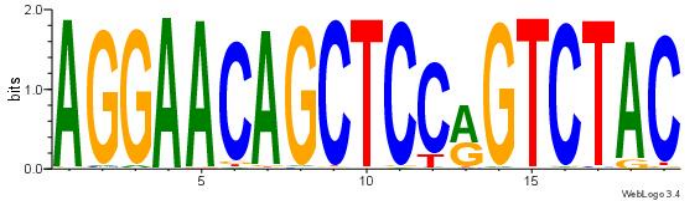

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

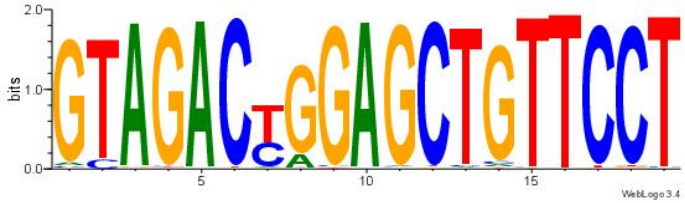

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.10263

Alignment:

```
GGGATTGTAAATACACCAAT
--GGTGGGAGAAATACCT--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

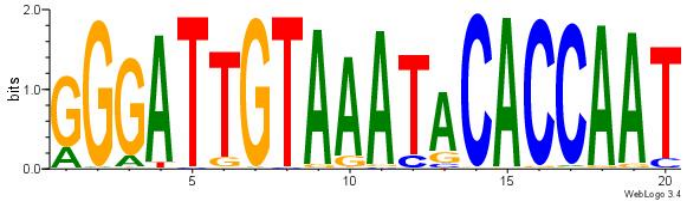

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.104426

Alignment:
CTCATTTAATCCTCACAAC
---AGGTATTTCTCCCACC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

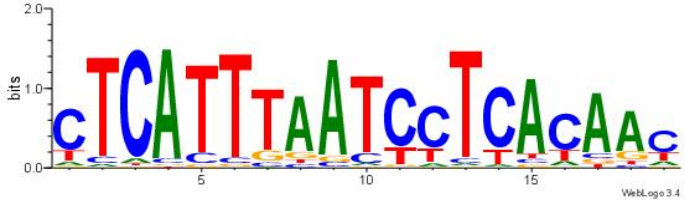

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

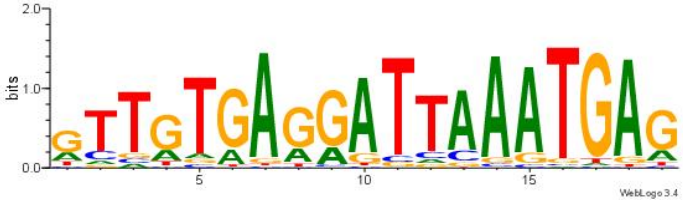

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.108187

Alignment:
GGGAGGTGTCTCCCAGTCAG
-AGGTATTTCTCCCACC---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

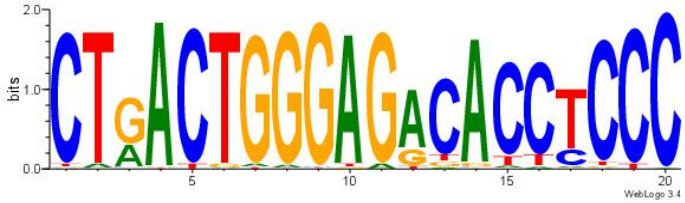

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

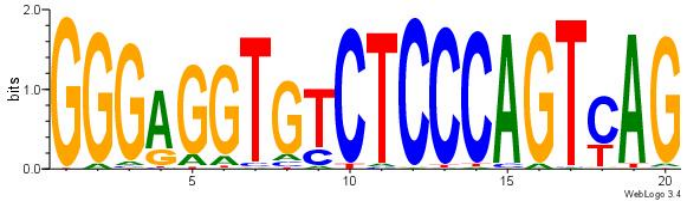

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.109008

Alignment:

```
AAAATGTGGTAYATAYAYAC
GGTGGGAGAAATACCT----
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

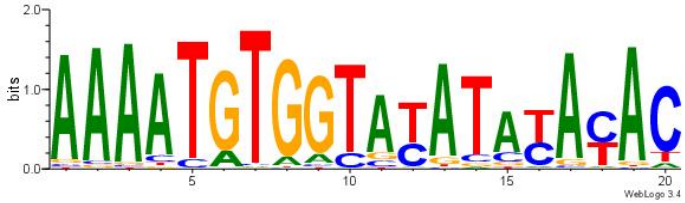

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

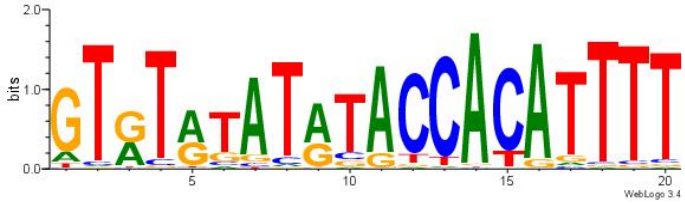

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.110952

Alignment:

```
AGATGCCAGCCAGAGCTCT
-GGTGGGAGAAATACCT--
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

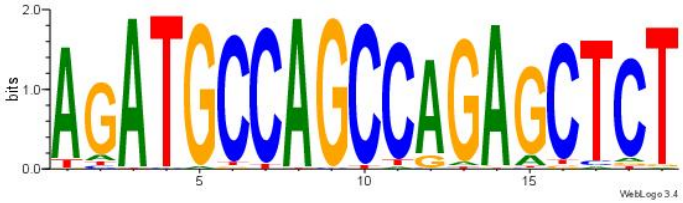

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

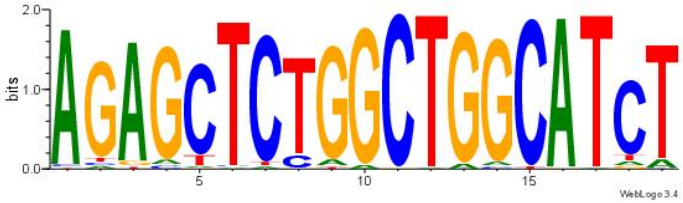

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.113013

Alignment:
TWTACCTATGTAACAAACCT
-AGGTATTTCTCCCACC---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

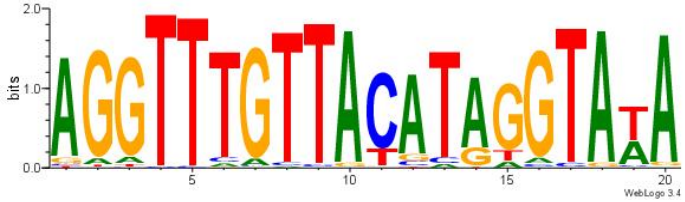

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

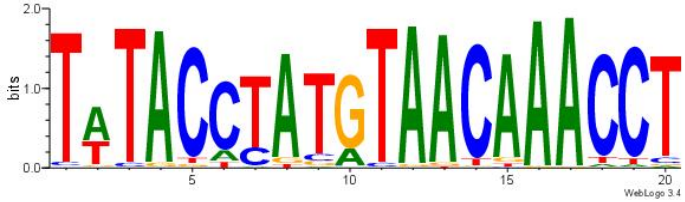

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.113669

Alignment:
AGCTCMKCCTCCTGTCAGAT
----AGGTATTTCTCCCACC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

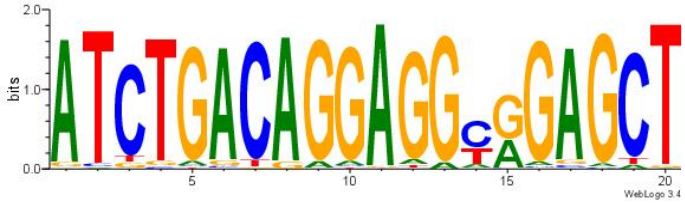

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

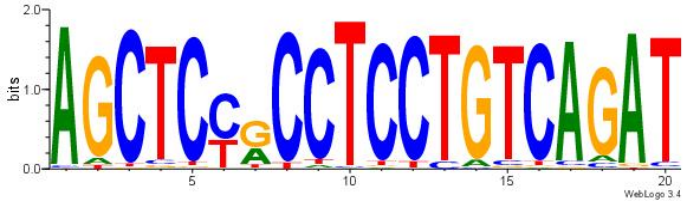

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.114247

Alignment:

```
TAGATAATAGCTCCAGCTTT
-AGGTATTTCTCCCACC---
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

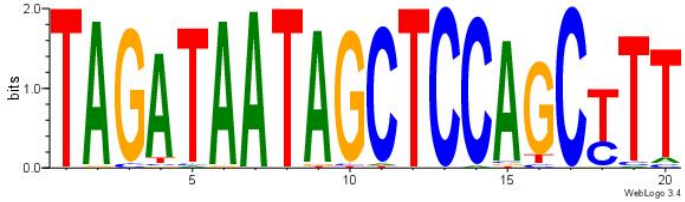

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

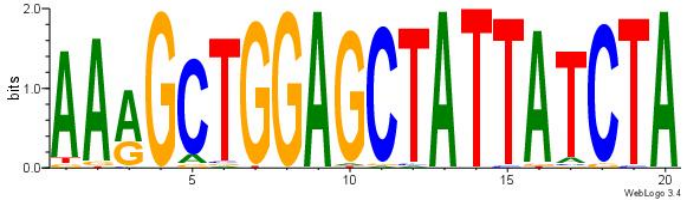

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.115238

Alignment:

```
GCTAATATATCCCTCCC
AGGTATTTCTCCCACC-
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

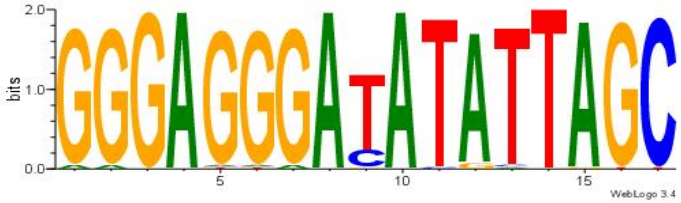

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

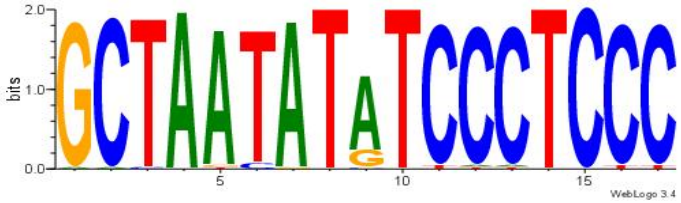

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.11769

Alignment:
GCCKGGMKCMGTGGCTCAKG
GGTGGGAGAAATACCT----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

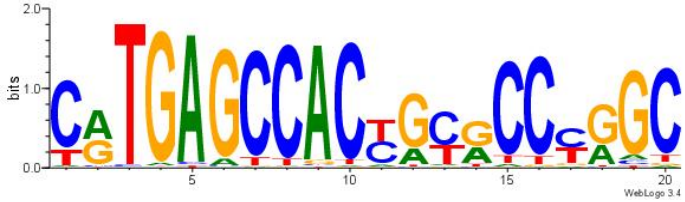

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

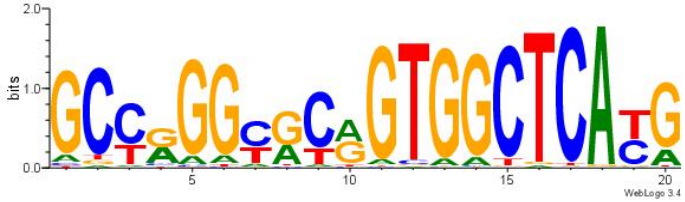

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.118099

Alignment:
ATGATCCAGCAATYCCACTH
---GGTGGGAGAAATACCT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

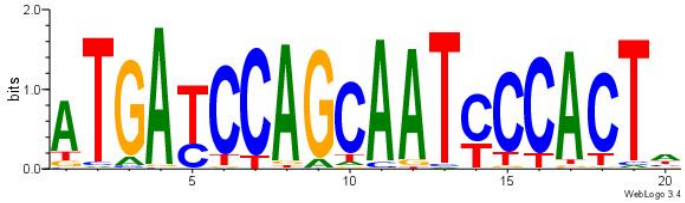

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

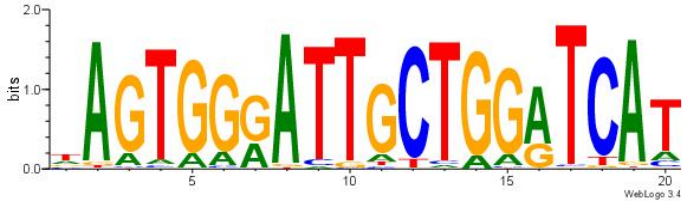

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.118273

Alignment:

```
CAAGGGTATAYGAGTAGCTG
---GGTGGGAGAAATACCT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

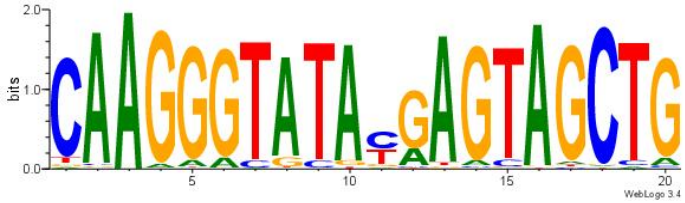

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

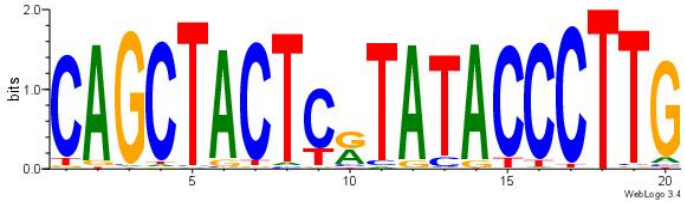

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.118383

Alignment:

```
TGAGKCAATTAAACCTCTT
GGTGGGAGAAATACCT---
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

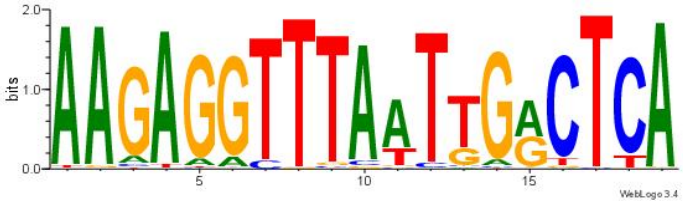

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

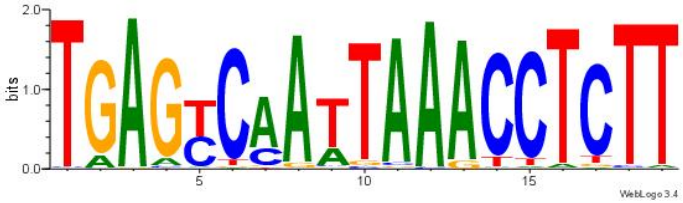

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.119795

Alignment:
GGGGGCTGACCCCCCCACC
---AGGTATTTCTCCCACC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

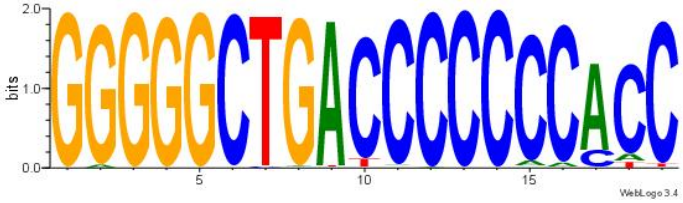

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

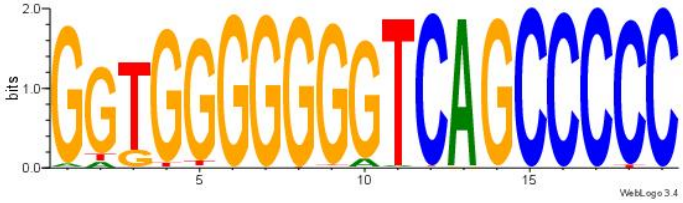

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.121032

Alignment:
CTCAGTGTTAATCTCCTGTC
----AGGTATTTCTCCCACC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

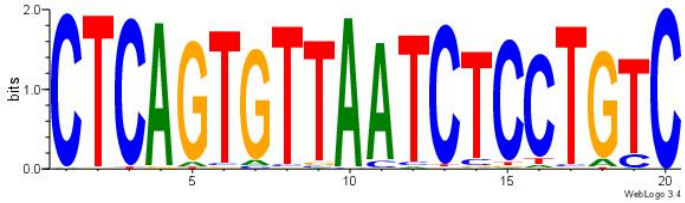

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

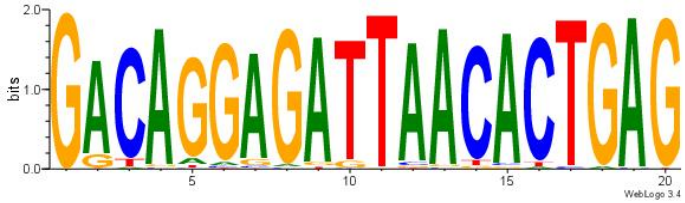

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.121145

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
---GGTGGGAGAAATACCT-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

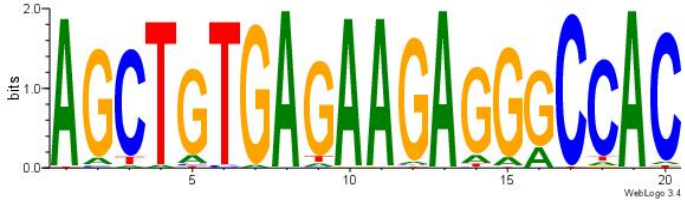

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

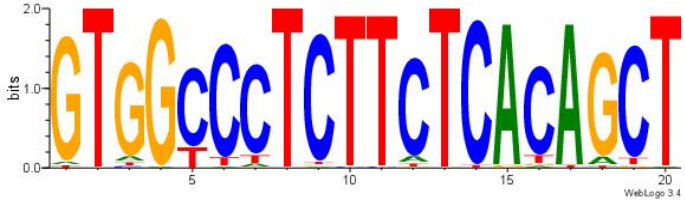

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.121299

Alignment:

```
ATGTGGAGGTGGAAGACAGT
---GGTGGGAGAAATACCT-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

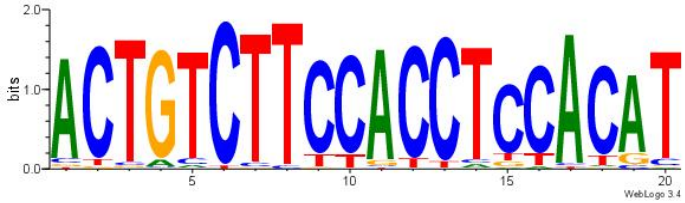

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

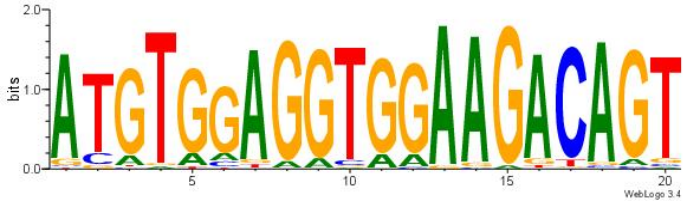

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.12222

Alignment:
GAGAGAGAGAGAGAGAGAGA
---GGTGGGAGAAATACCT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

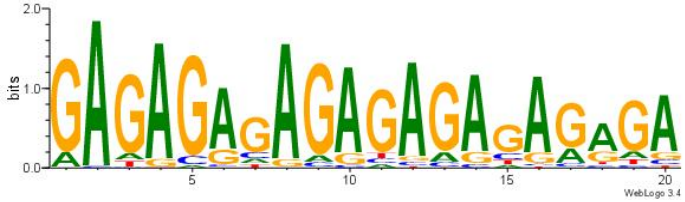

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

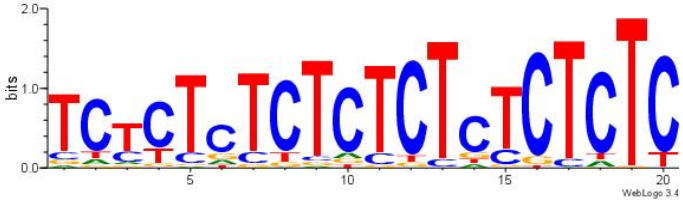

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.123405

Alignment:
GCCGGGRAGAGGCGCTCCT
---GGTGGGAGAAATACCT

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

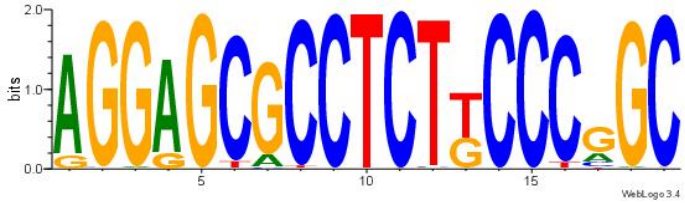

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

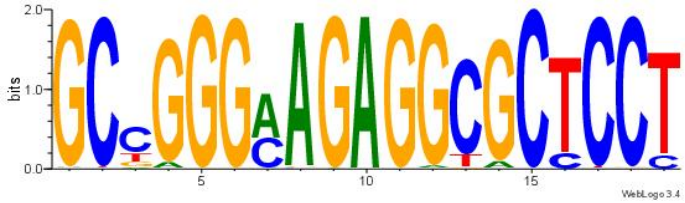

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.123696

Alignment:

```
AGGAGCCCCTCHGCCCR
AGGTATTTCTCCCACC-
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

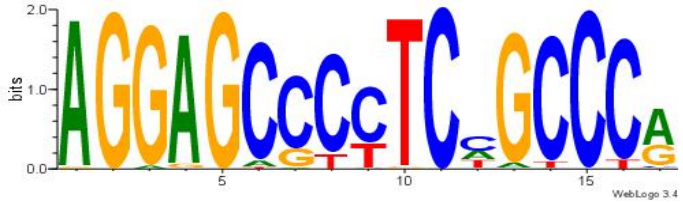

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

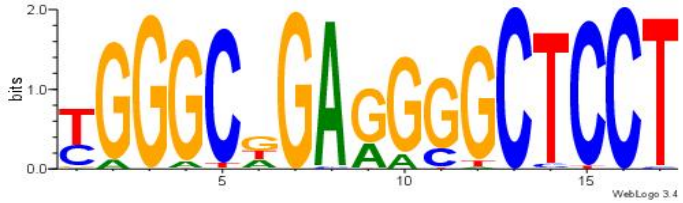

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.123929

Alignment:

```
TGGATGGATGGATGGAT
-GGTGGGAGAAATACCT
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

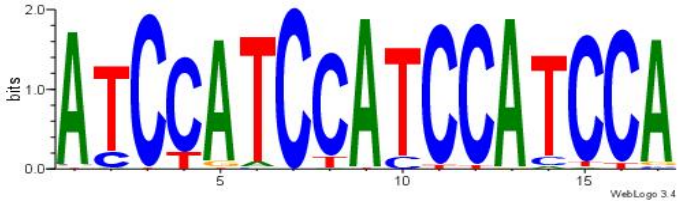

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.12395

Alignment:
AGCCCCGGTTCCCGCYCGC
AGGTATTTCTCCCACC---

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

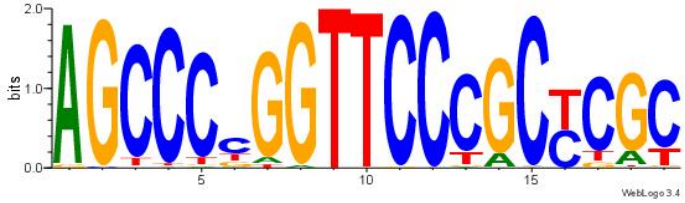

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

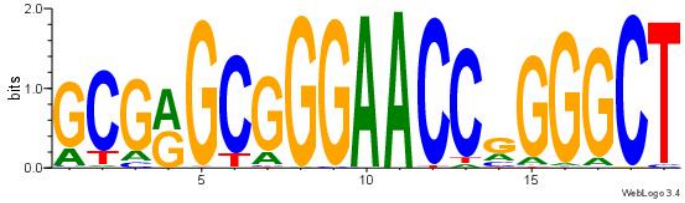

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.12421

Alignment:
GCAWSTGCAAAGGCCCT
-GGTGGGAGAAATACCT

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

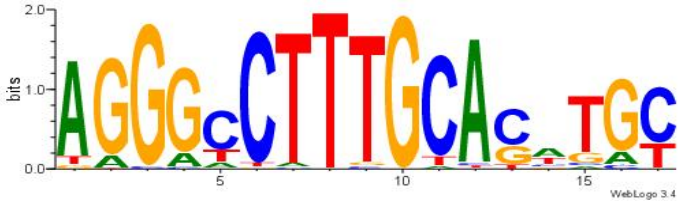

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

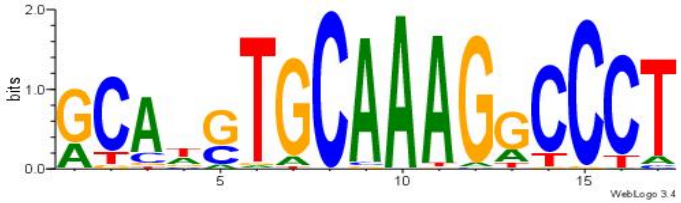

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.125117

Alignment:

```
AGGAGRCMCTCTGCCTGGC
---AGGTATTTCTCCCACC
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

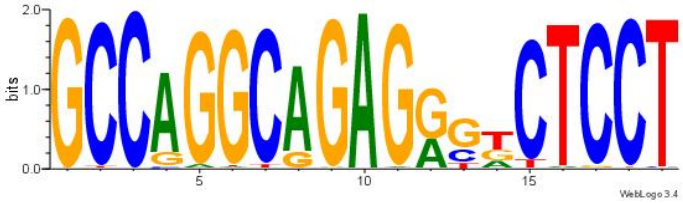

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

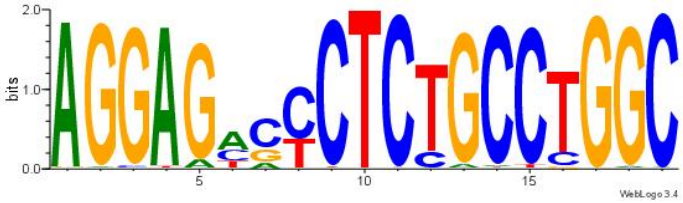

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.125656

Alignment:

```
GTTATTAATTGGCCTAATTT
--AGGTATTTCTCCCACC--
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

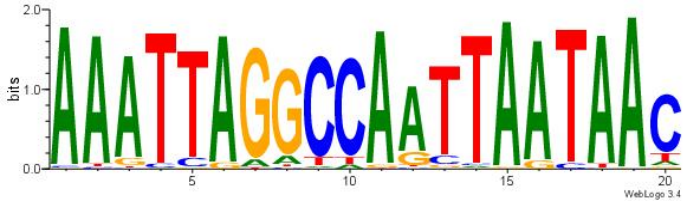

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.125736

Alignment:
MGTGTGATGTCTCCCCC
GGTGGGAGAAATACCT-

Original motif Consensus sequence: GGGGGAGACATCACACR

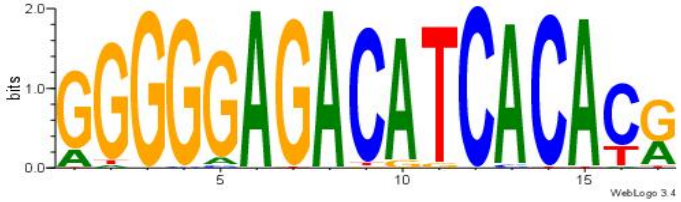

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

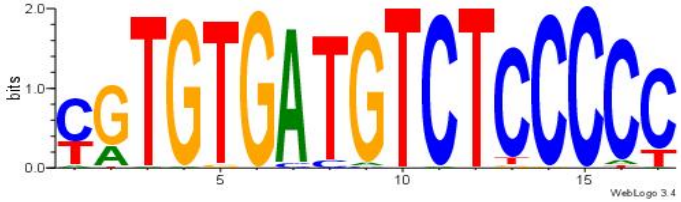

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.126021

Alignment:
AGTGAGAACATRYRRTRTTT
----GGTGGGAGAAATACCT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

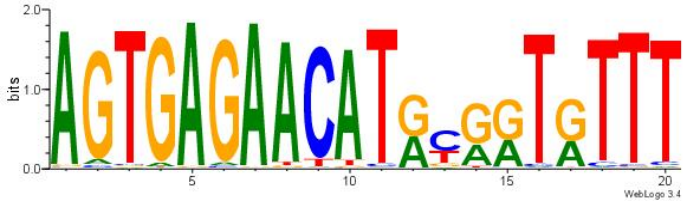

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

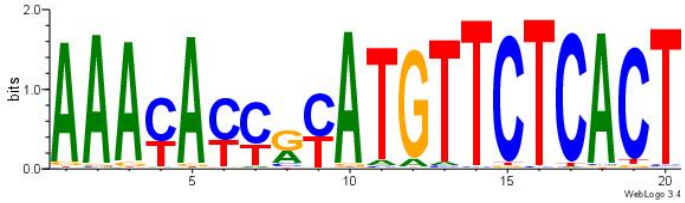

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.127109

Alignment:

```
AAGCAGGGCGAGGCATTGCC
GGTGGGAGAAATACCT----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

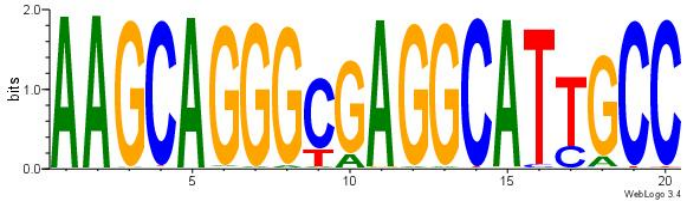

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

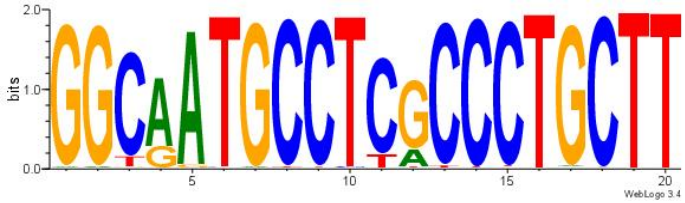

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.127253

Alignment:

```
CATTAGATTCTCATAGGA
-AGGTATTTCTCCCACC-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

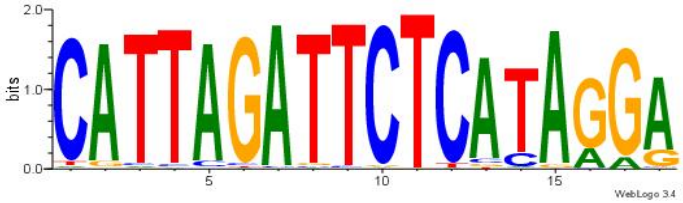

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

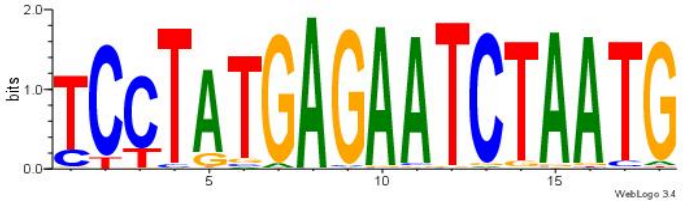

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.127255

Alignment:
TTGGAGGTTCTAGCAGGG
-AGGTATTTCTCCCACC-

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

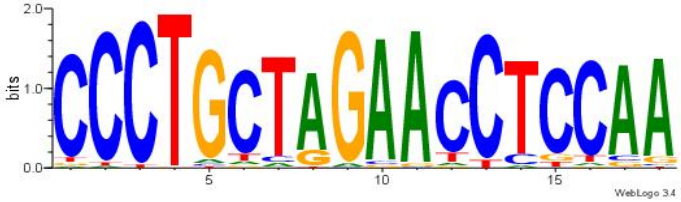

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

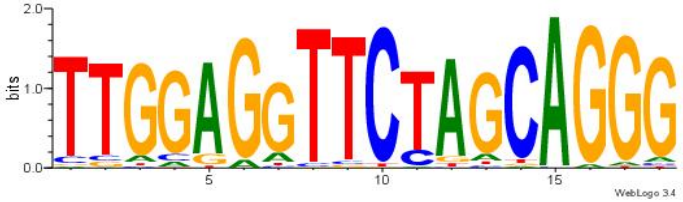

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.128086

Alignment:
AGAAATCGAGCRCAGCGCCG
AGGTATTTCTCCCACC----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

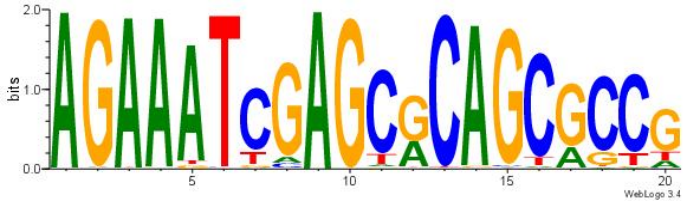

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

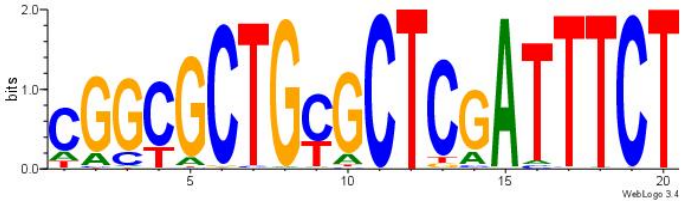

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.12835

Alignment:

```
CCCATGCAAGTCYRAAATCC
---AGGTATTTCTCCCACC-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

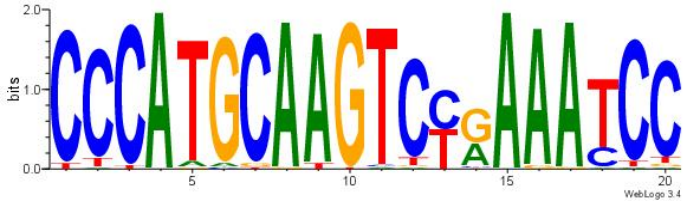

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

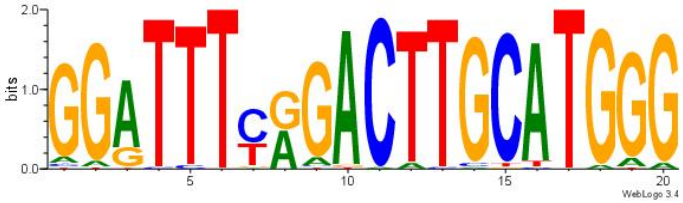

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.12894

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
--AGGTATTTCTCCCACC--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

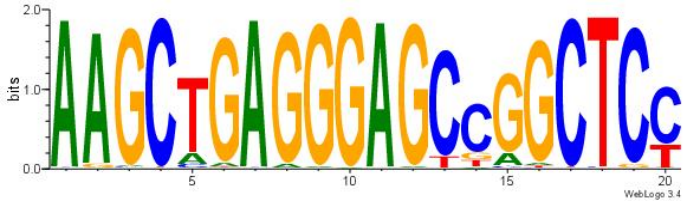

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

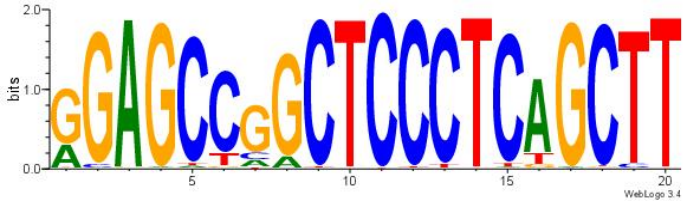

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.129957

Alignment:
CACCAGGAGATTATATCCCR
GGTGGGAGAAATACCT----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

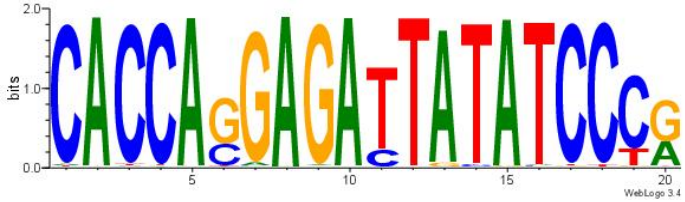

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

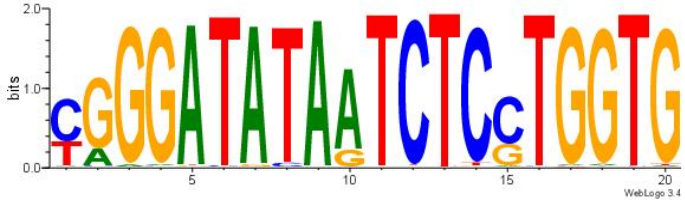

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.130602

Alignment:
KGCAACCTAGATCCCT
GGTGGGAGAAATACCT

Original motif Consensus sequence: AGGGATCTAGGTTGCR

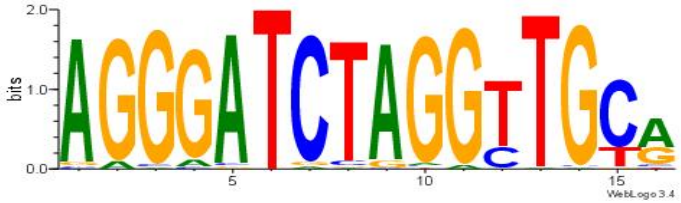

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

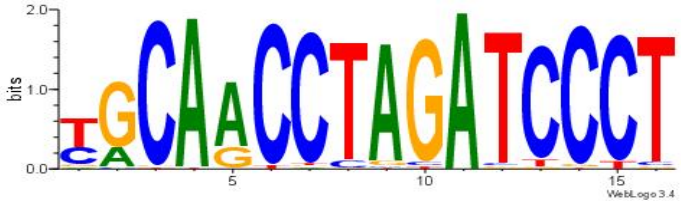

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.130645

Alignment:

```
TAATTTTATGTGTCAACTTG
-AGGTATTTCTCCCACC---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

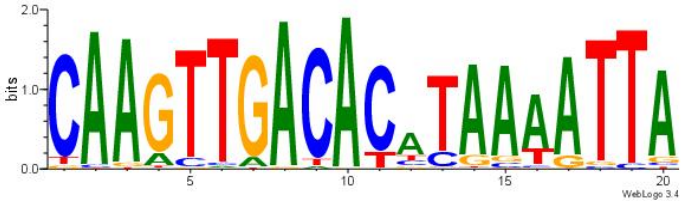

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

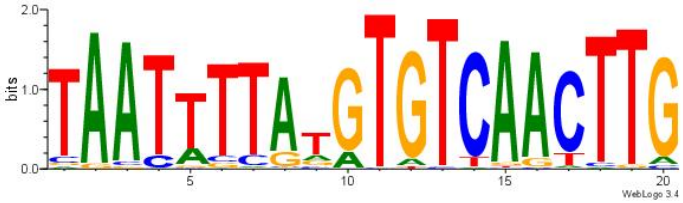

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.131207

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGGTATTTCTCCCACC----
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

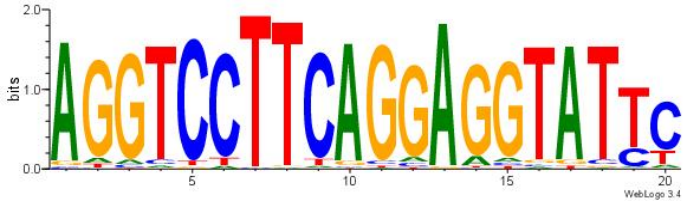

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

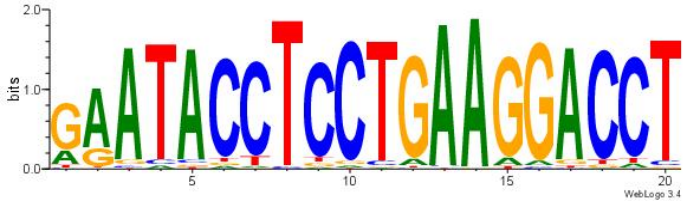

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.13202

Alignment:
CTATTGTGAATARTGCTGC
-GGTGGGAGAAATACCT--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

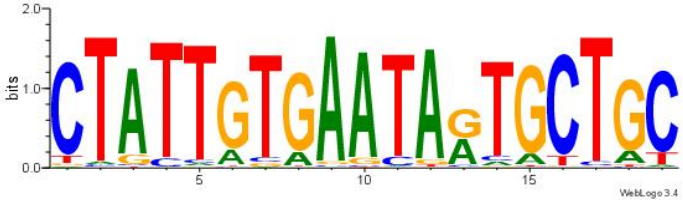

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

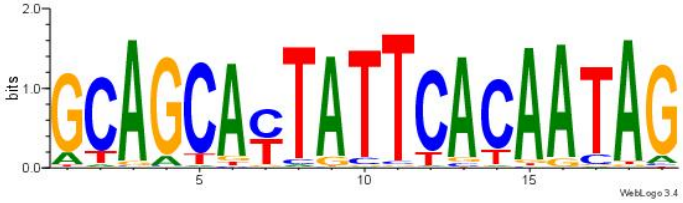

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.132084

Alignment:
GTTAACTGTAAAACAGCCT
---GGTGGGAGAAATACCT

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

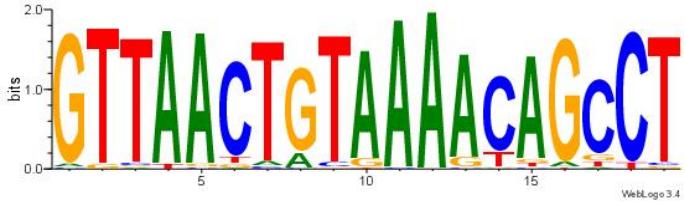

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

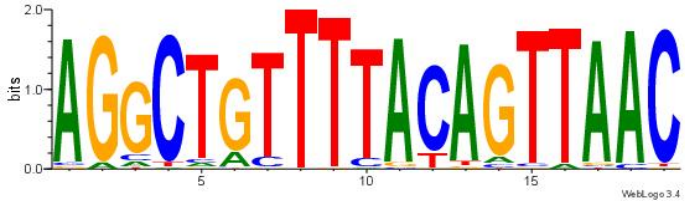

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.132334

Alignment:

```
GCACATGTAYCCYAGAACTT
AGGTATTTCTCCCACC----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

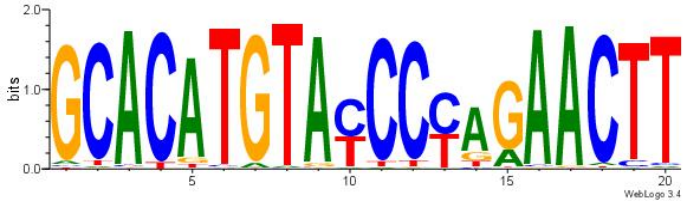

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

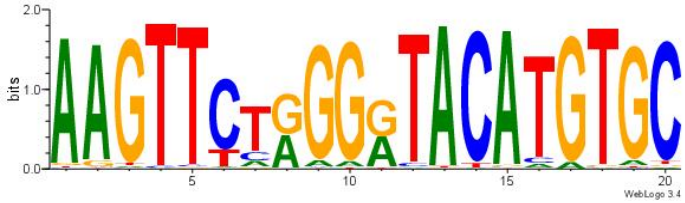

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.132336

Alignment:

```
TGCTGGAGGTCCACTCCAGA
GGTGGGAGAAATACCT----
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

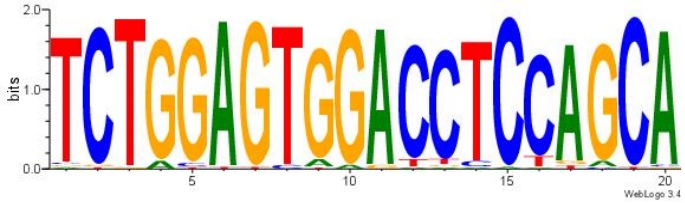

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

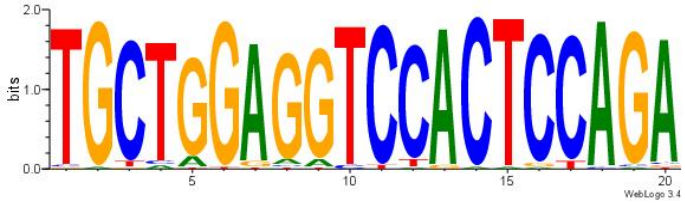

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.132953

Alignment:
AAGTCTCCCAATTACAACT
AGGTATTTCTCCCACC---

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

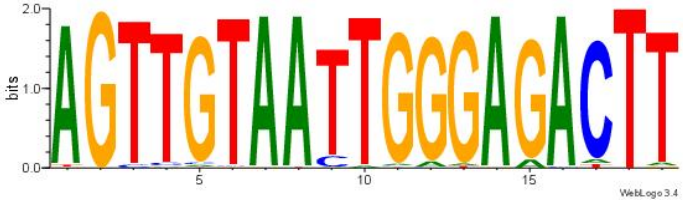

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

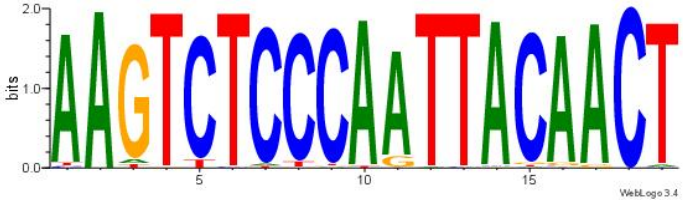

Dataset #: 1
Motif ID: 278
Motif name: Motif 278
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.133452

Alignment:
ACTTTCAGGCATAACA
GGTGGGAGAAATACCT

Original motif Consensus sequence: ACTTTCAGGCATAACA

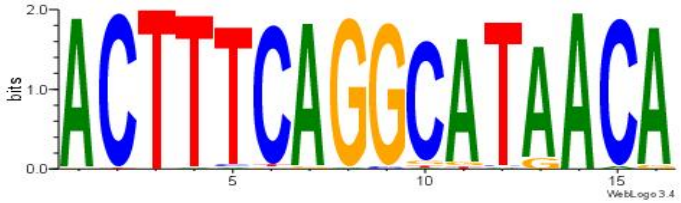

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

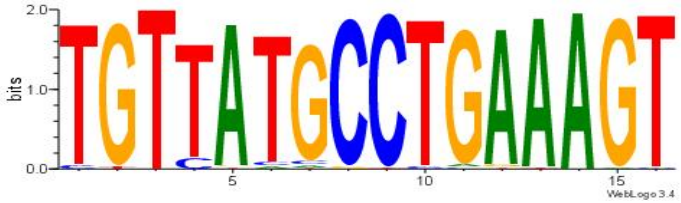

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.13374

Alignment:

```
VMATTTAKTGAGCACCTACT
----GGTGGGAGAAATACCT
```

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

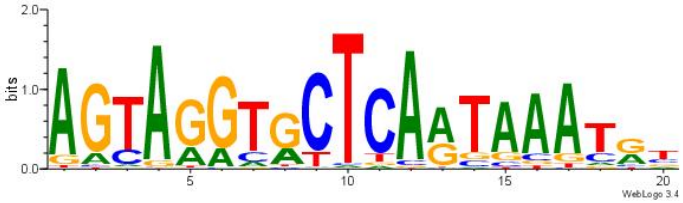

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

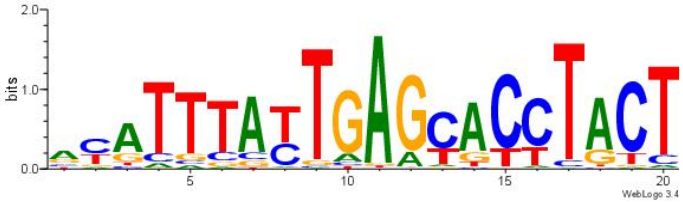

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.133782

Alignment:

```
ATGGAATAYTATTCAGCCAT
-AGGTATTTCTCCCACC---
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

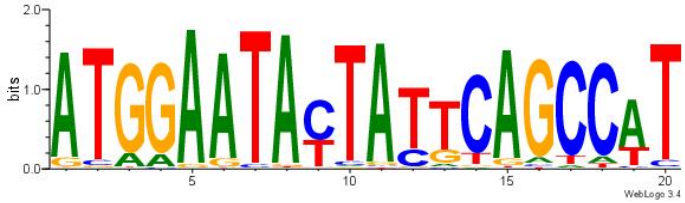

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

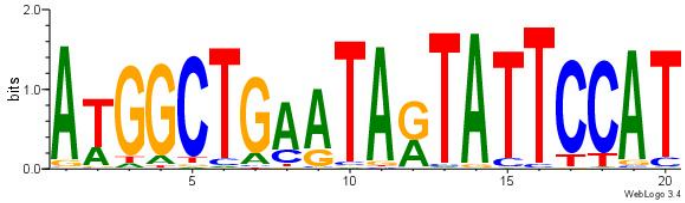

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.134872

Alignment:
GCCTCTCCCTCCACACCTCC
AGGTATTTCTCCCACC----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

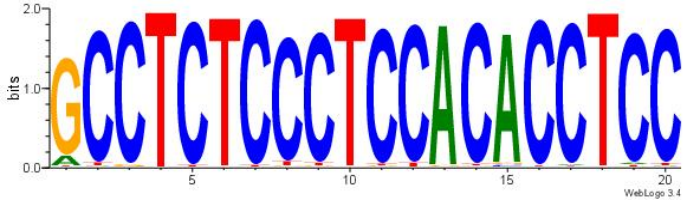

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

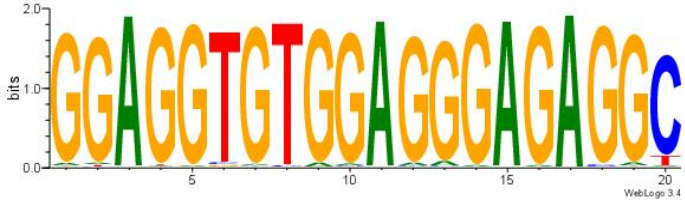

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.135552

Alignment:
AGGASCSTCYSWGCCMGGY
AGGTATTTCTCCCACC---

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

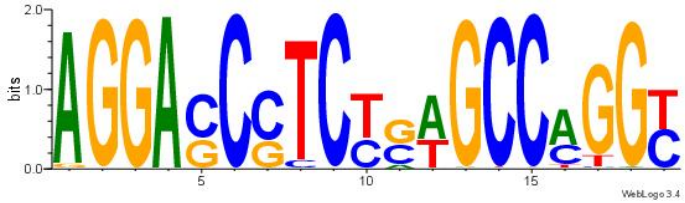

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

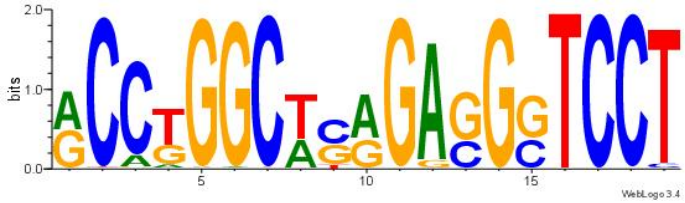

Dataset #: 1 Motif ID: 169 Motif name: Motif 169

Original motif Consensus sequence: CCCAAATCCTATAAAA

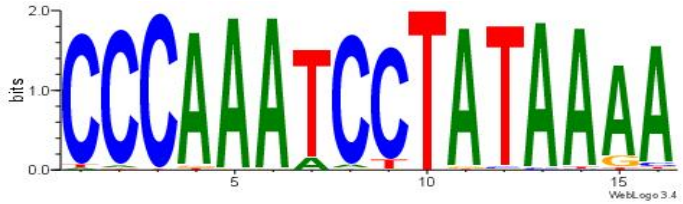

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

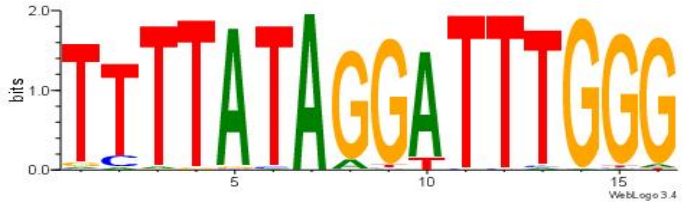

Best Matches for Motif ID 169 (Highest to Lowest)

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0869109

Alignment:
GCCAATTTCTCCCATTTGGA
----TTTTATAGGATTTGGG

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

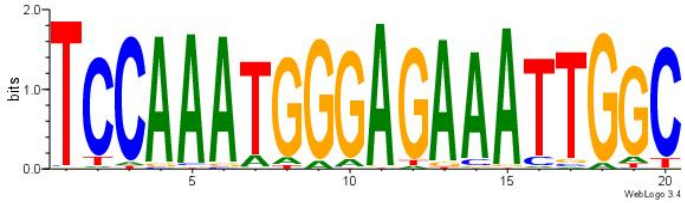

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

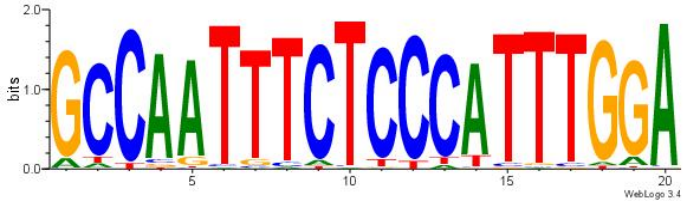

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0879004

Alignment:
CCCAAATCTCATSTTGAAT
CCCAAATCCTATAAAA---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

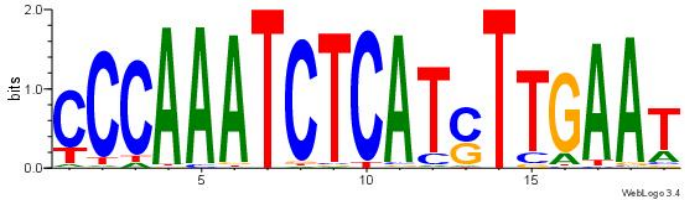

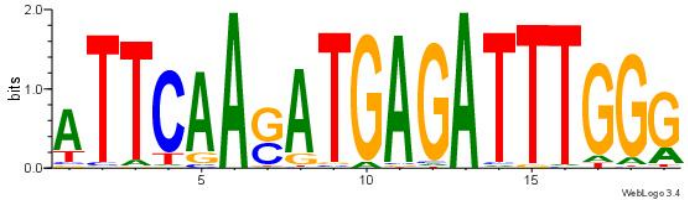

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0971624

Alignment:

```
CATTCTGGGGTCTGGAGGAY
TTTTATAGGATTTGGG----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

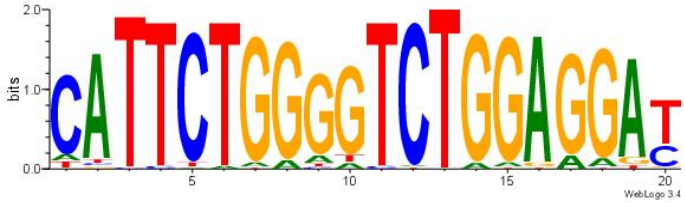

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

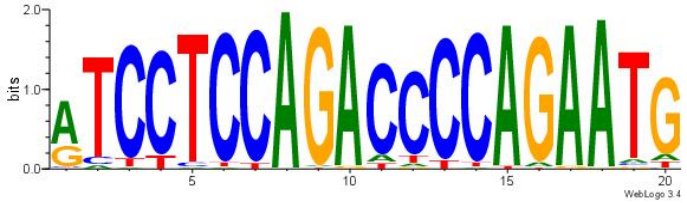

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0994535

Alignment:

```
AGAGCCAAATCATGARTGAA
---CCCAAATCCTATAAAA-
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

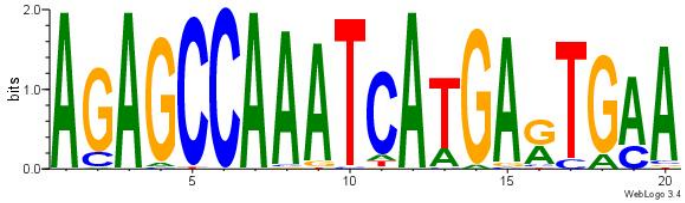

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

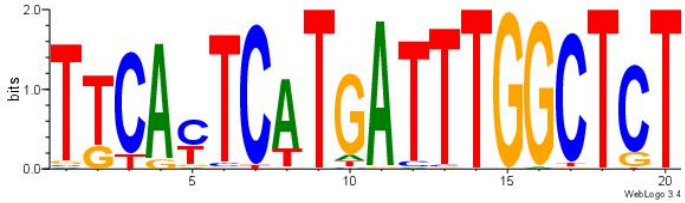

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16

Similarity score: 0.100749

Alignment:
AGCTCMKCCTCCTGTCAGAT
-CCCAAATCCTATAAAA---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

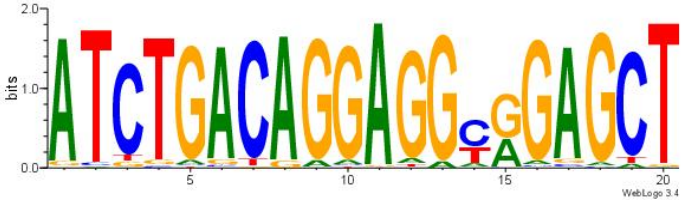

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

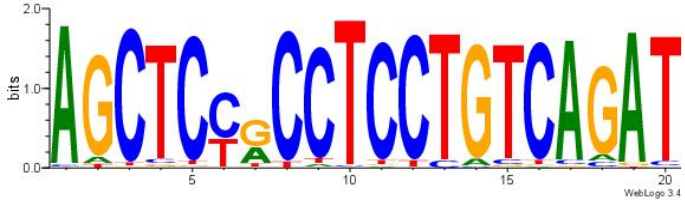

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.101377

Alignment:
TTTYTWTTTTTTYTWGAGAC
--TTTTATAGGATTTGGG--

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

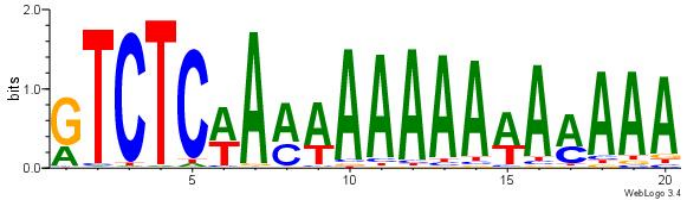

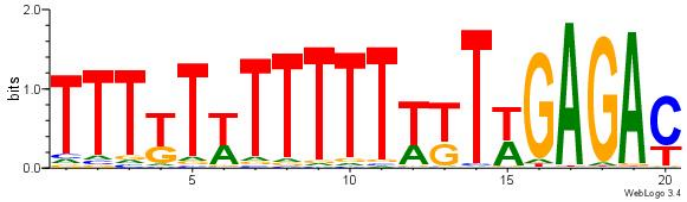

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.101598

Alignment:

```
ACTCCCTAGTGAGATGAACC
-CCCAAATCCTATAAAA---
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

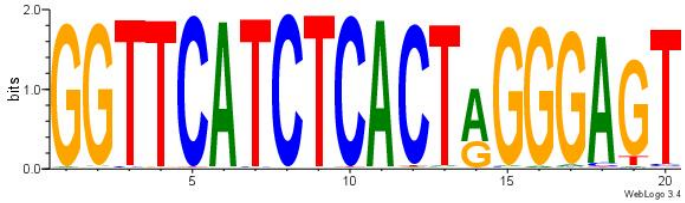

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

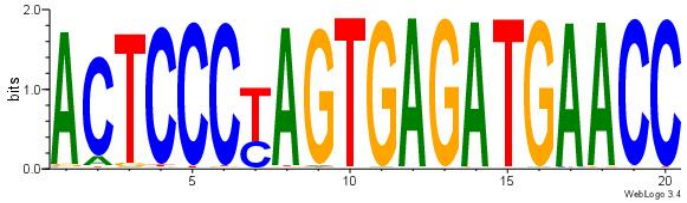

Dataset #:	1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.105349

Alignment:

```
TTYTTGTTGTTGTTGTT
-TTTTATAGGATTTGGG
```

Original motif Consensus sequence: AACAACAACAACAAMAA

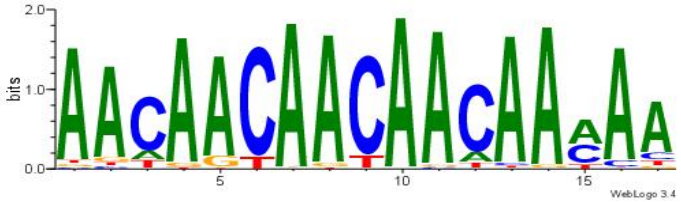

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

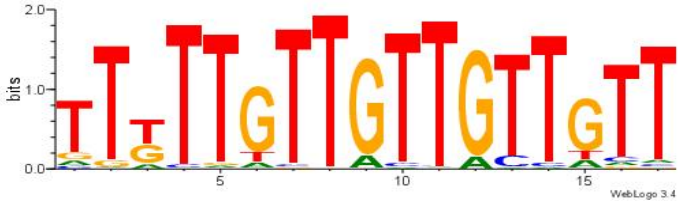

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16

Similarity score: 0.106259

Alignment:
CCTAGATTTCAGARGATGT
CCCAAATCCTATAAAA---

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

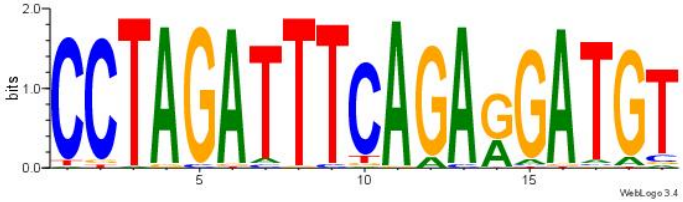

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

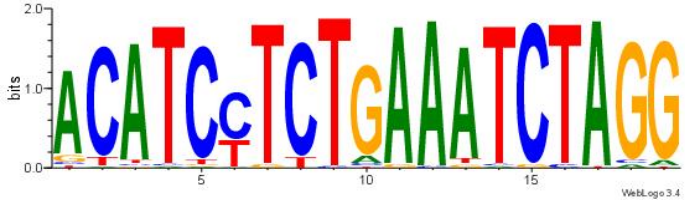

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.112703

Alignment:
GTTTAACCATTGAGGGCCAG
TTTTATAGGATTTGGG----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

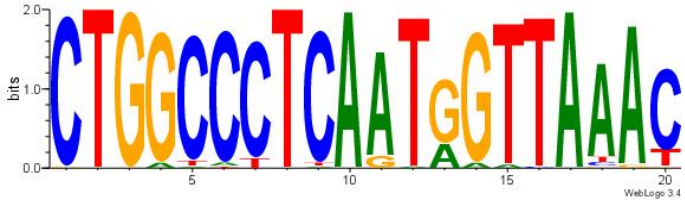

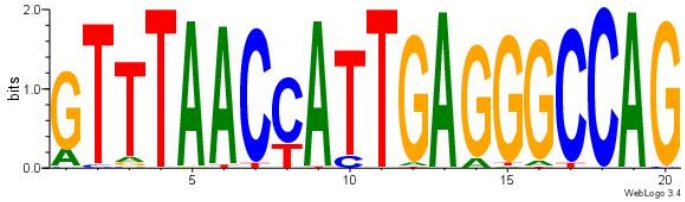

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.112786

Alignment:

```
CCCYAATACTGCGCTTTTC
---CCCAAATCCTATAAAA
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

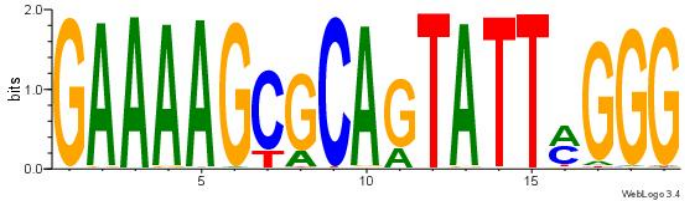

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

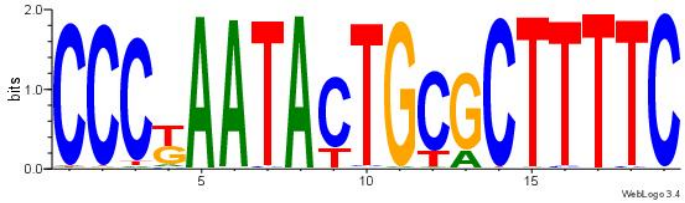

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.113373

Alignment:

```
GGATTTMKGACTTGCATGGG
TTTTATAGGATTTGGG----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

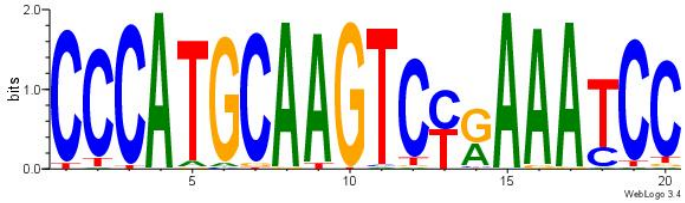

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

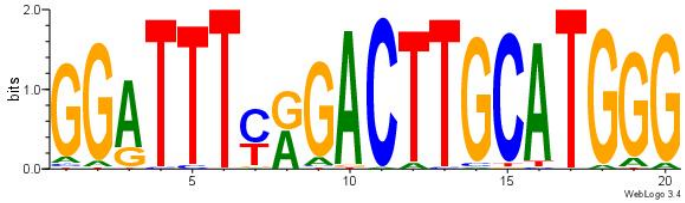

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.114684

Alignment:
TTTTCACATGCCTTTCT
-TTTTATAGGATTTGGG

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

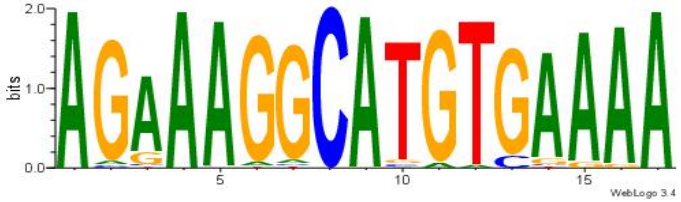

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

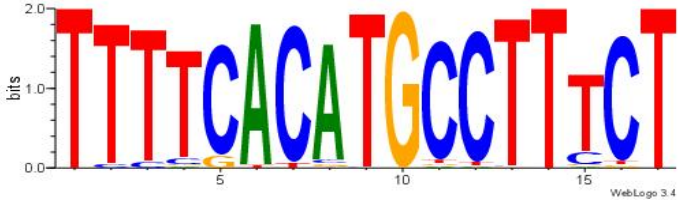

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.115026

Alignment:
ACATCCCAGACGATGGGCG
TTTTATAGGATTTGGG---

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

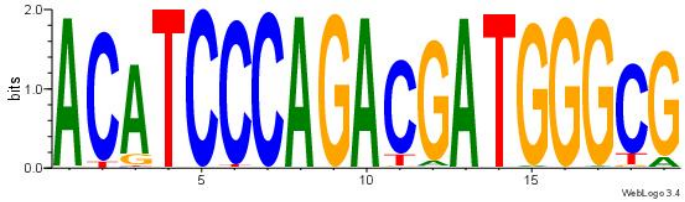

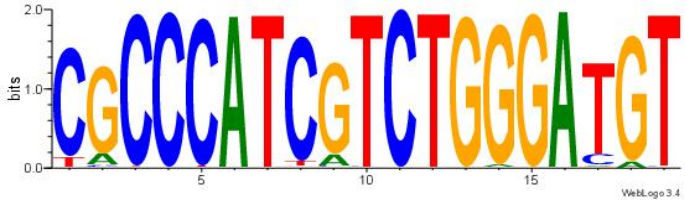

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.115839

Alignment:

```
CAGCTACTCKTATACCCTTG
-CCCAAATCCTATAAAA---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

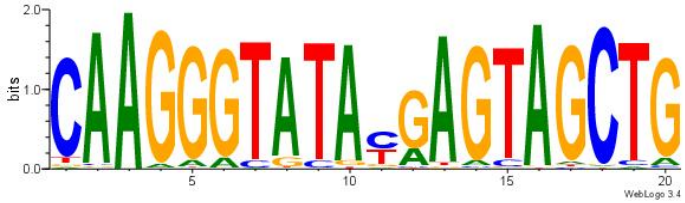

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

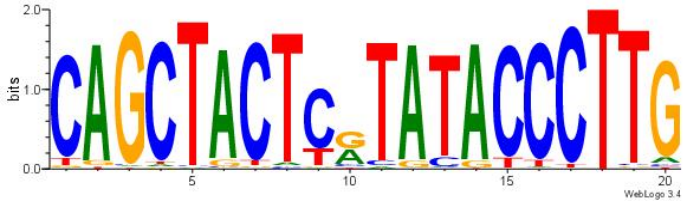

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.116672

Alignment:

```
GCACATGTAYCCYAGAACTT
-CCCAAATCCTATAAAA---
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

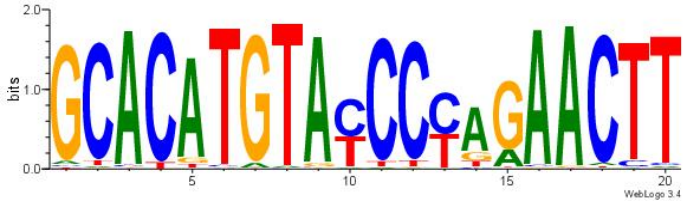

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

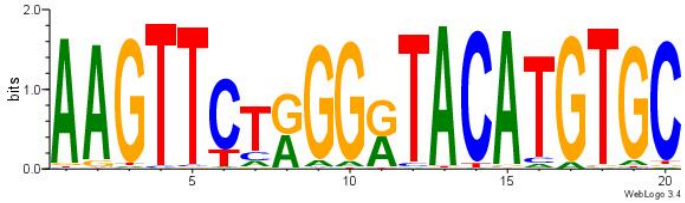

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.11676

Alignment:
CTTGGGTGGTCGATGGGAC
-TTTTATAGGATTTGGG--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

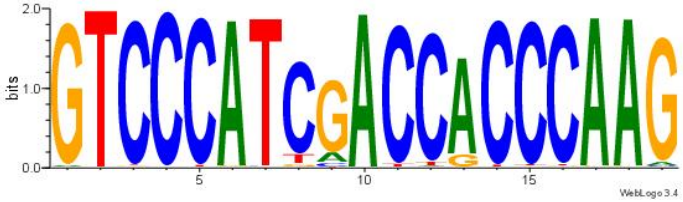

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

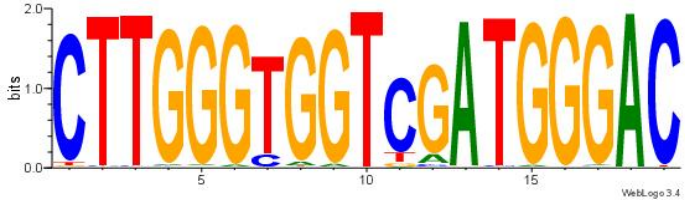

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.118452

Alignment:
ATGGCTGAATAKTATTCCAT
-CCCAAATCCTATAAAA---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

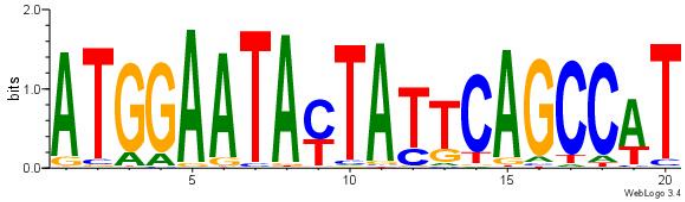

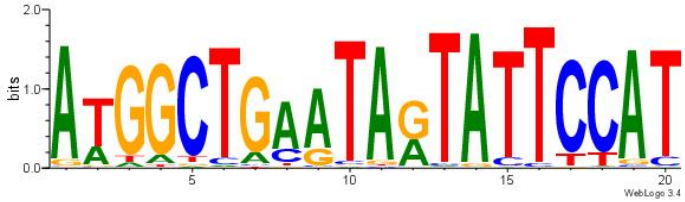

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.119351

Alignment:

```
GTTGTGAGGATTAAATGAG
TTTTATAGGATTTGGG---
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

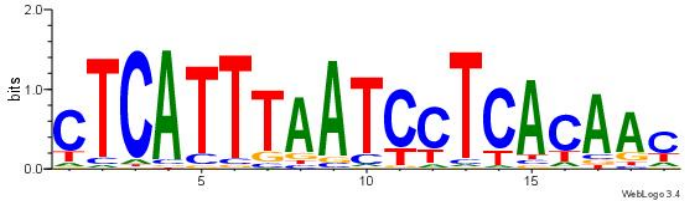

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

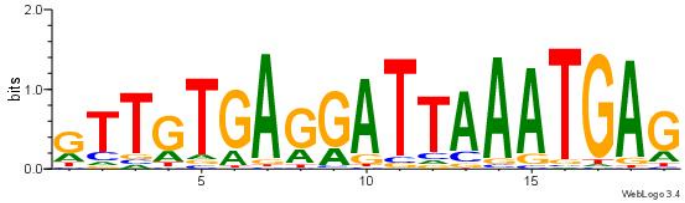

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.119419

Alignment:

```
AAGGAACAAACTCCRGACAC
----CCCAAATCCTATAAAA
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

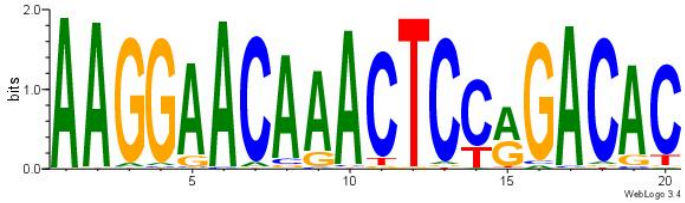

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

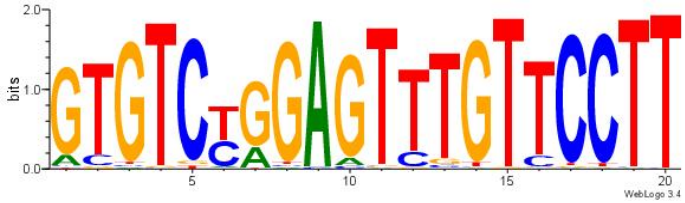

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16

Similarity score: 0.121921

Alignment:
TGTGTGTGTGTKTGTGTGT
TTTTATAGGATTTGGG---

Original motif Consensus sequence: ACACACAYACACACACACA

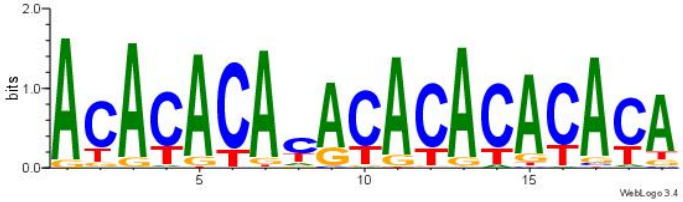

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

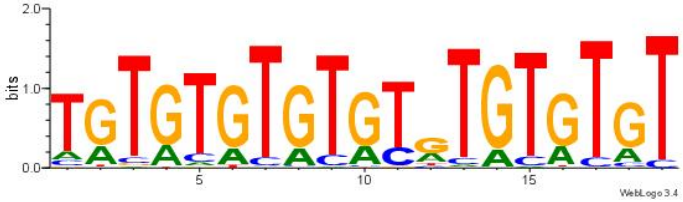

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.122783

Alignment:
GCCAGTCACAAAARGACAMA
CCCAAATCCTATAAAA----

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

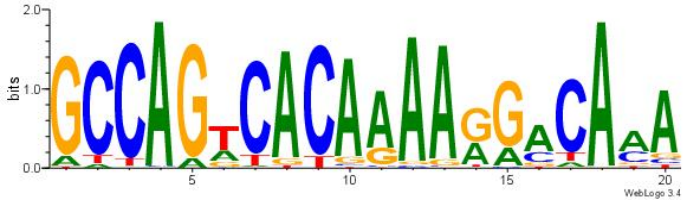

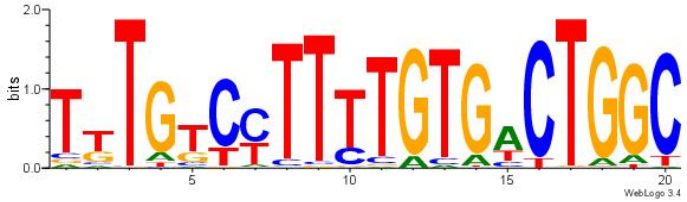

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.123793

Alignment:

```
CACCAGGAGATTATATCCCR
--CCCAAATCCTATAAAA--
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

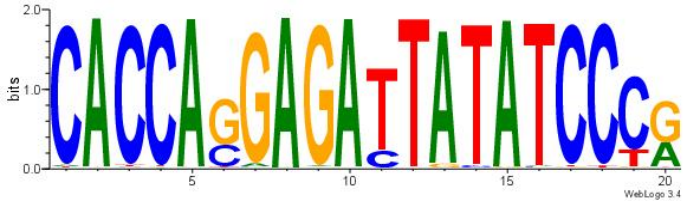

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

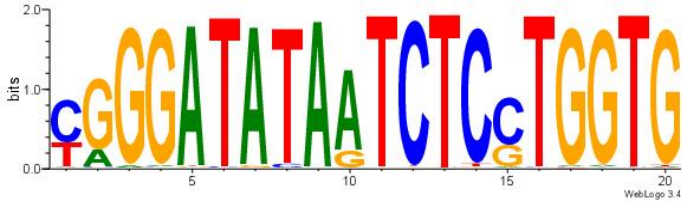

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.124286

Alignment:

```
GAATACCTCCTGAAGGACCT
-CCCAAATCCTATAAAA---
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

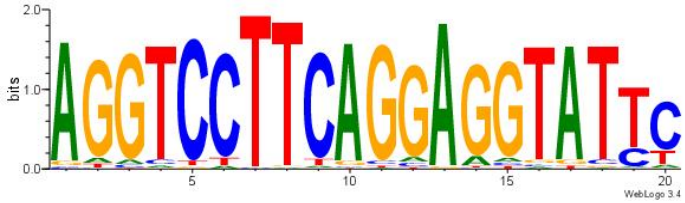

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

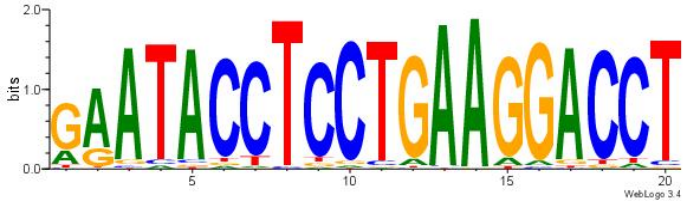

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.124511

Alignment:
ACCCAATWTGTAGTCTTTTA
-CCCAAATCCTATAAAA---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

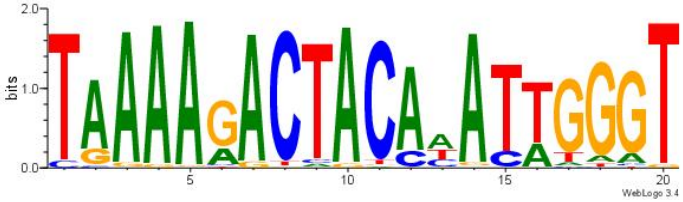

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

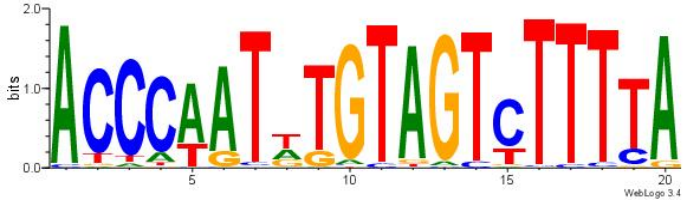

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.12555

Alignment:
TACCTGAGACTGGGTAATTT
---CCCAAATCCTATAAAA-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

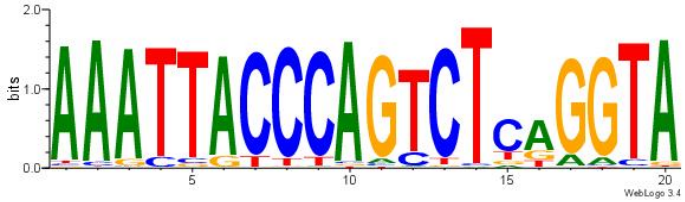

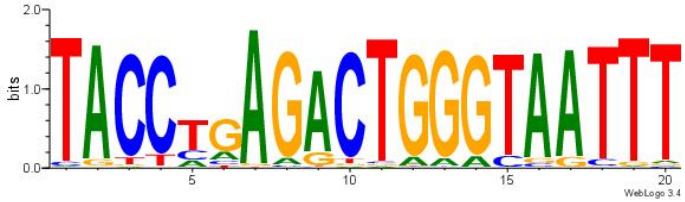

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.126081

Alignment:

```
TCAATGGGCTCCCAAATG
CCCAAATCCTATAAAA--
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

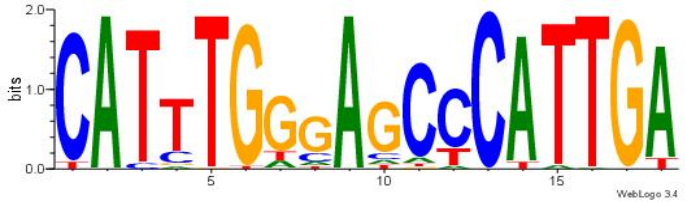

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

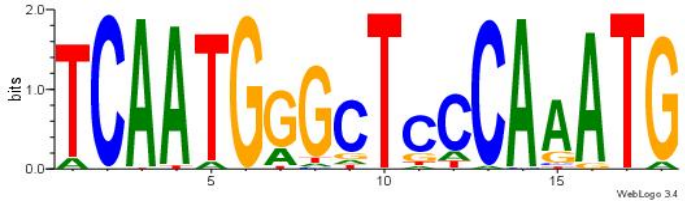

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.126105

Alignment:

```
CTCCAGKTMCATCCATGTTG
----CCCAAATCCTATAAAA
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

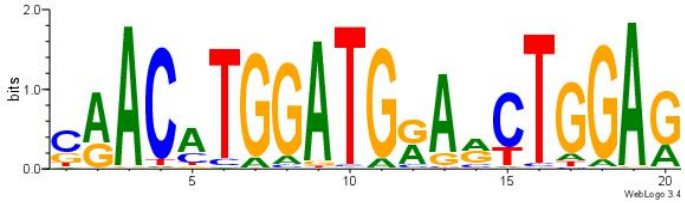

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

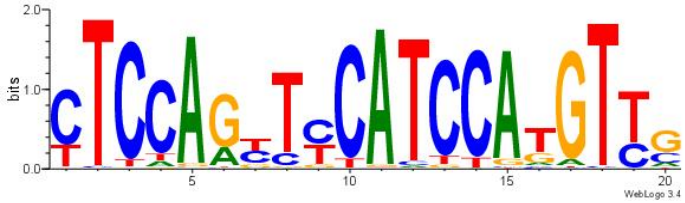

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16

Similarity score: 0.126299

Alignment:
ATTAGCYRGGCRTGGTGGC
--TTTTATAGGATTTGGG-

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

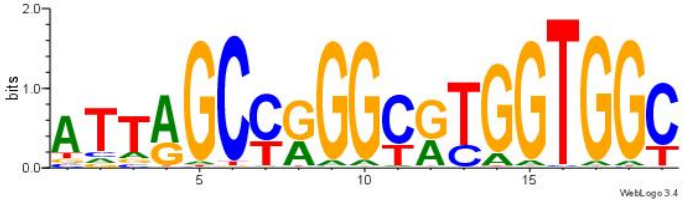

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

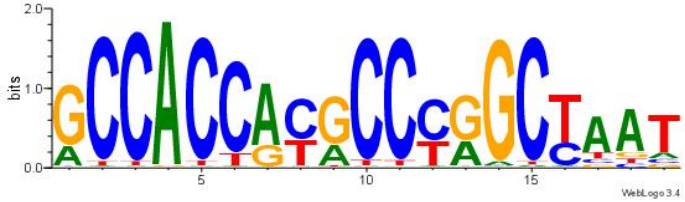

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.126551

Alignment:
AATTAAAAGACACAGACTG
TTTTATAGGATTTGGG---

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

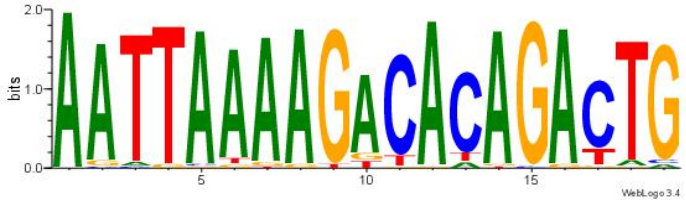

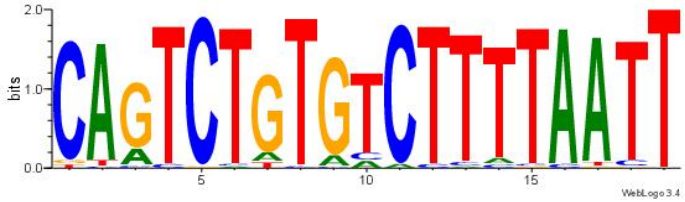

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.126585

Alignment:

```
AGTTCCGGGTGGGCGTGGG
TTTTATAGGATTTGGG---
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

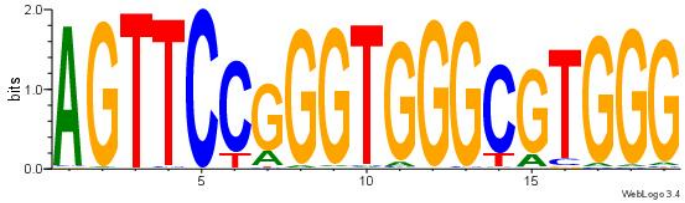

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

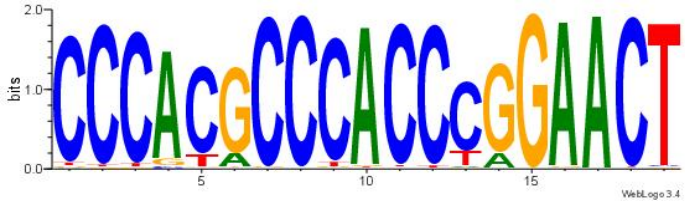

Dataset #:	1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.127153

Alignment:

```
CATTAGATTCTCATAGGA
--CCCAAATCCTATAAAA
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

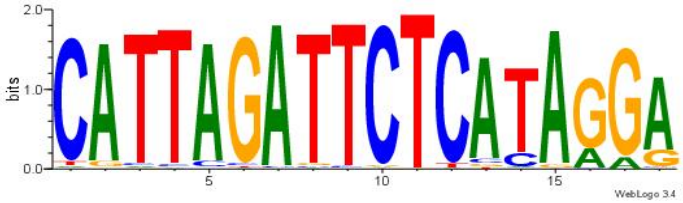

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

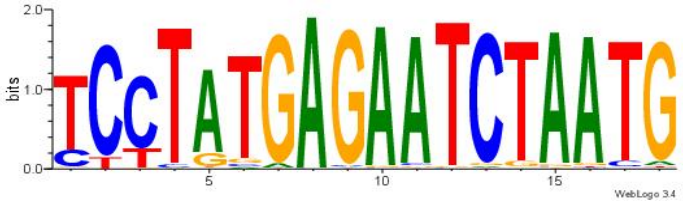

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16

Similarity score: 0.127377

Alignment:
CMCAGTTCACAATAGGGTT
CCCAAATCCTATAAAA---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

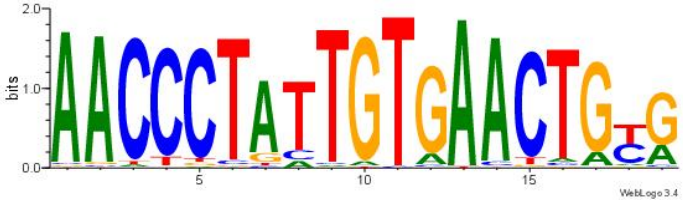

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

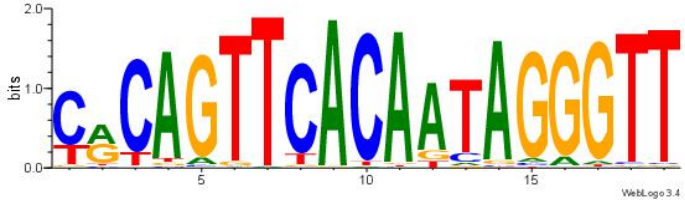

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.127617

Alignment:
AATGAKATCATGTCYTTTGC
---CCCAAATCCTATAAAA-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

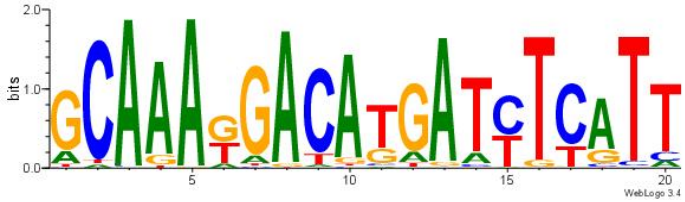

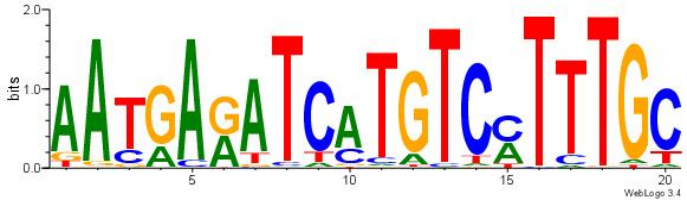

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.128588

Alignment:

```
GTGCCAGGCACTGTKCTARG
--CCCAAATCCTATAAAA--
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

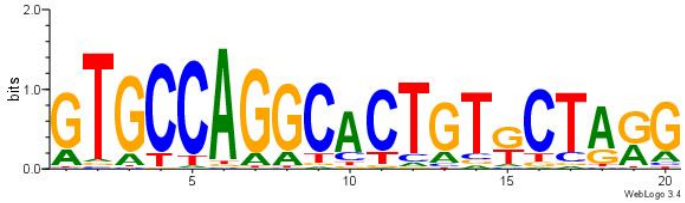

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

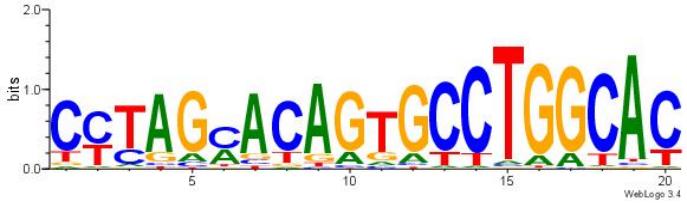

Dataset #:	1

Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.128906

Alignment:

```
ATATTGATGATCCTGACC
TTTTATAGGATTTGGG--
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

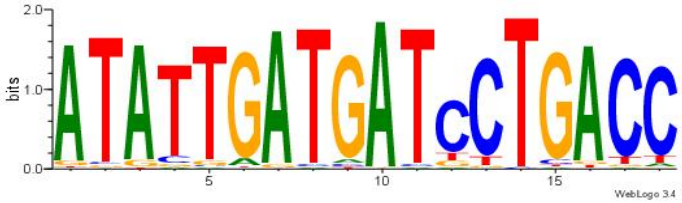

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

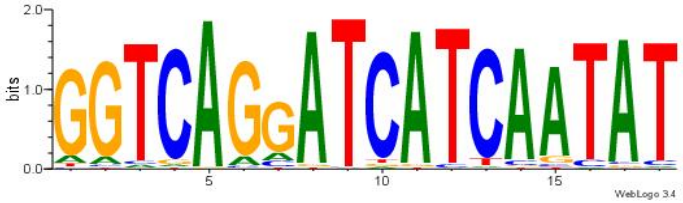

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.129331

Alignment:
TGCCCAGTCTGGAAAGTG
-CCCAAATCCTATAAAA-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

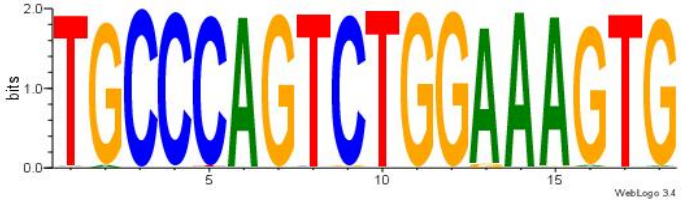

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

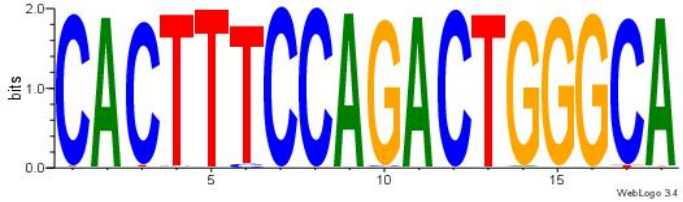

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.129508

Alignment:
TTGAGGAGGCAGTCTG
TTTTATAGGATTTGGG

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

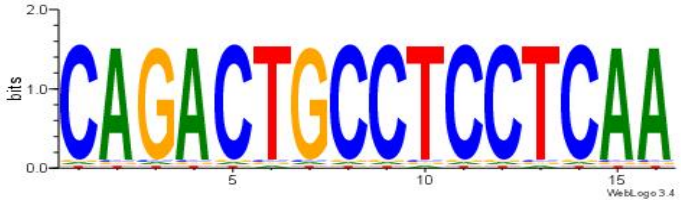

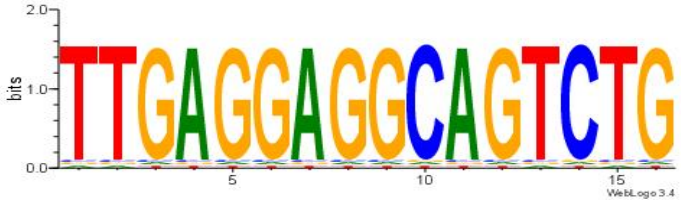

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.129534

Alignment:

```
AGTAGGTGCTCARTAAATRB
CCCAAATCCTATAAAA----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

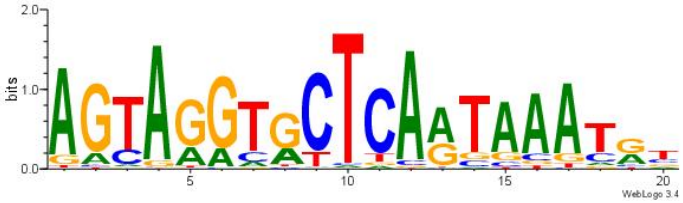

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

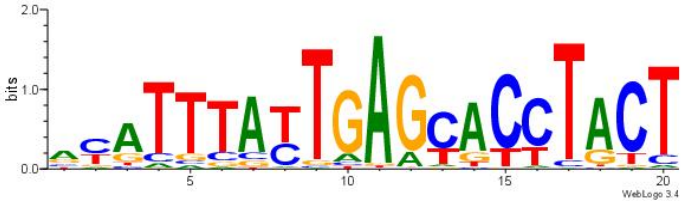

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.129572

Alignment:

```
CCACCACAGCTCAAGGAGGC
-CCCAAATCCTATAAAA---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

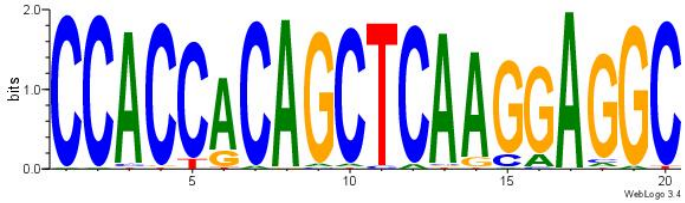

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

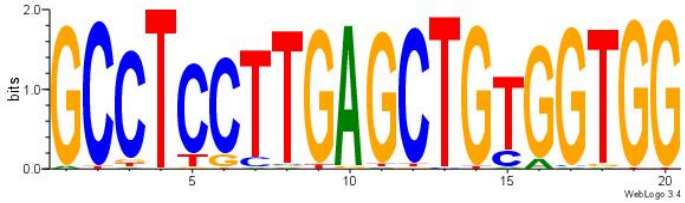

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16

Similarity score: 0.130255

Alignment:
AGTGAGAACATRYRRTRTTT
----TTTTATAGGATTTGGG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

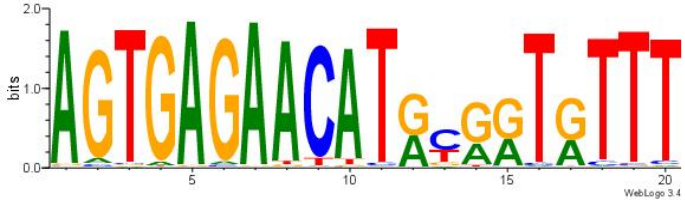

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

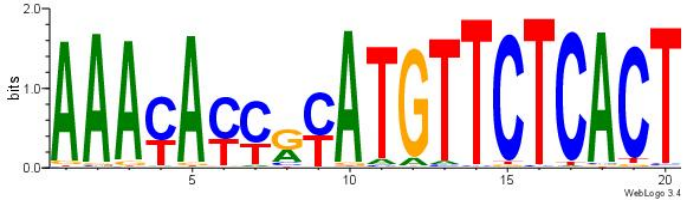

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.130746

Alignment:
GCCTCTCCCTCCACACCTCC
CCCAAATCCTATAAAA----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

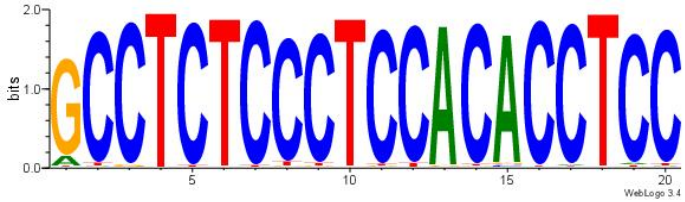

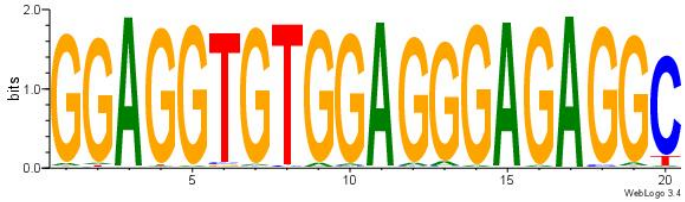

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.131107

Alignment:

```
CCTTGGCCAGCCCAGAAAG
---CCCAAATCCTATAAAA
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

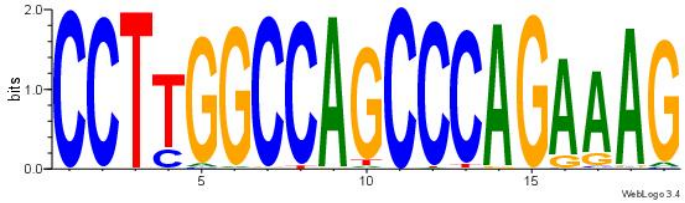

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

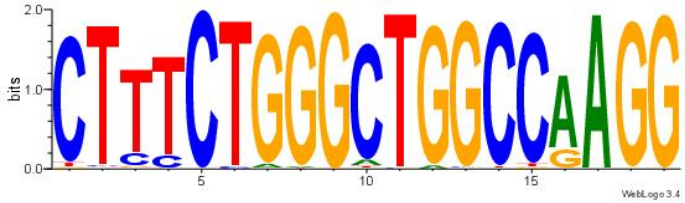

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.131252

Alignment:

```
AGTGACCCGATTTTCCAGGT
TTTTATAGGATTTGGG----
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

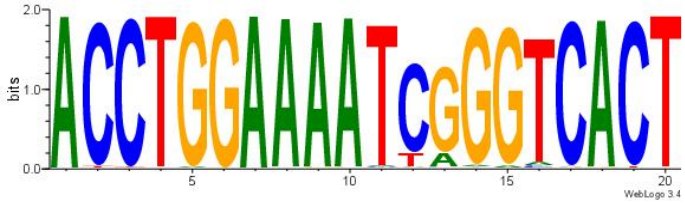

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

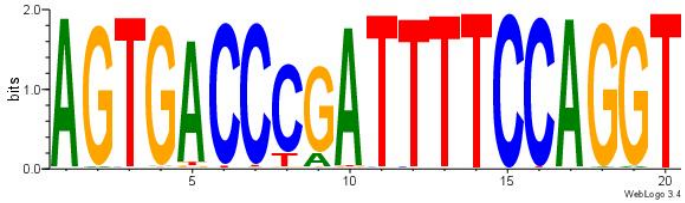

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.131318

Alignment:
TGGAGAACCTTTATGTCTAG
----CCCAAATCCTATAAAA

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

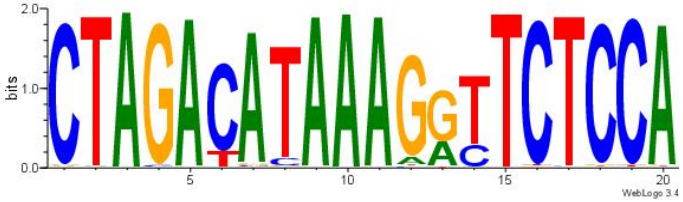

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

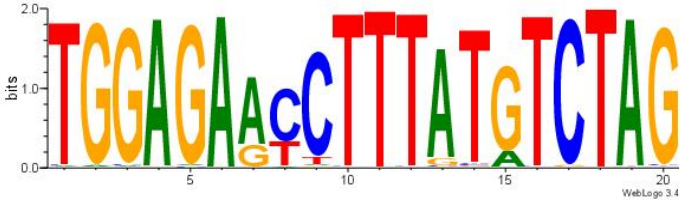

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.131599

Alignment:
AGGAACAGCTCCRGTCTAC
---CCCAAATCCTATAAAA

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

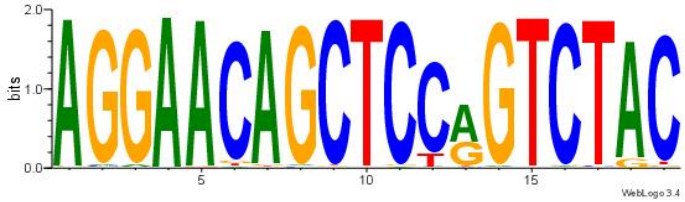

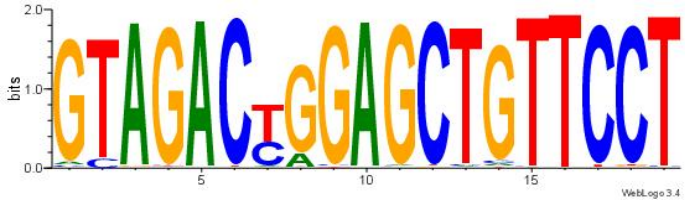

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.131616

Alignment:

```
AAATTAGGCCAATTAATAAC
-CCCAAATCCTATAAAA---
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

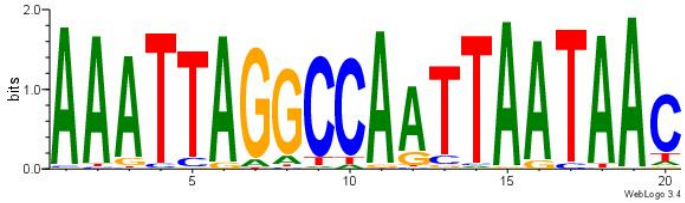

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.131668

Alignment:

```
AGGTTTGTTACATAGGTAWA
--TTTTATAGGATTTGGG--
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

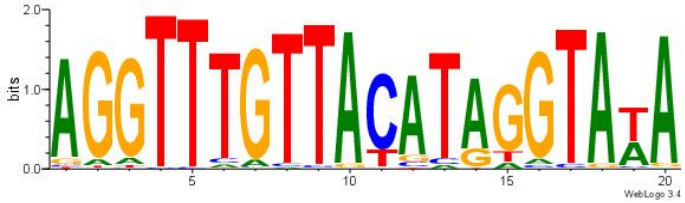

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

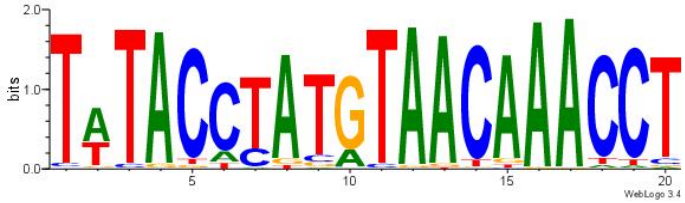

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.131755

Alignment:
CTTGCCCAAGGTCACACAGC
-CCCAAATCCTATAAAA---

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

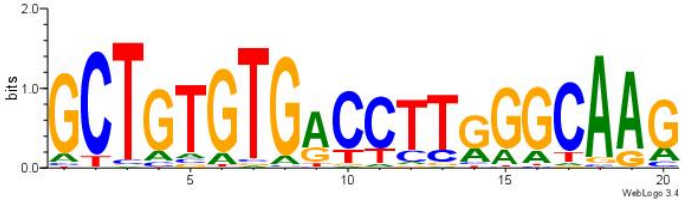

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

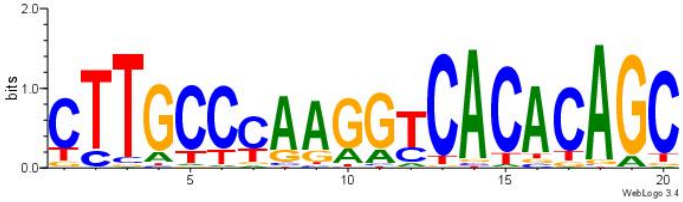

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.132302

Alignment:
ATACAATGGGGGTACAGRC
-TTTTATAGGATTTGGG--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

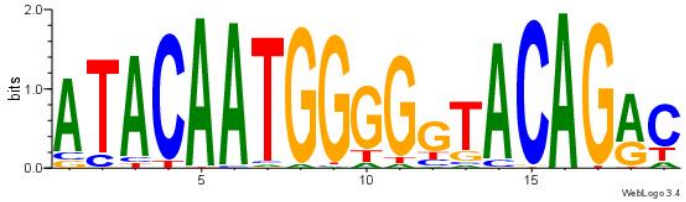

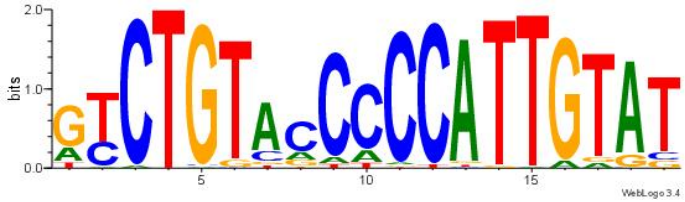

Dataset #: 1 Motif ID: 170 Motif name: Motif 170

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

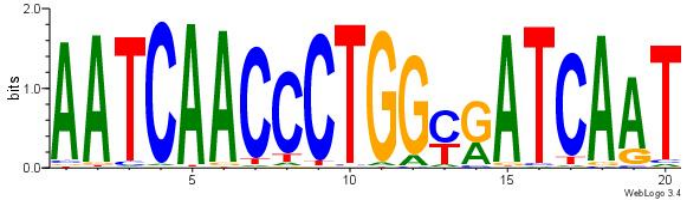

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

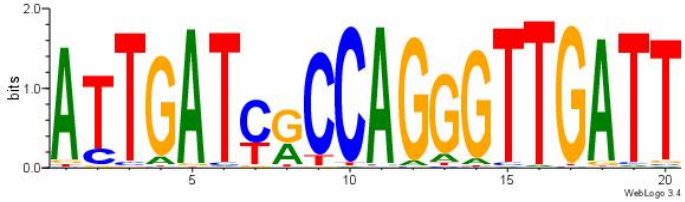

Best Matches for Motif ID 170 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0971686

Alignment:

AGTGAGAACATRYRRTRTTT
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

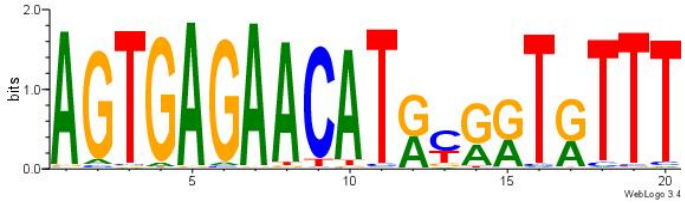

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

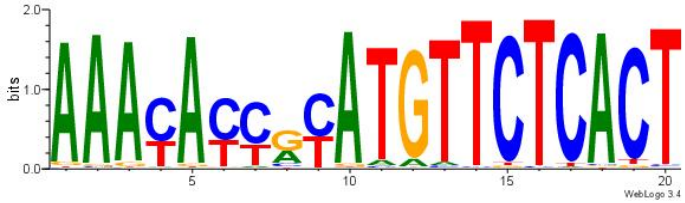

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114396

Alignment:
CTGGCCCTCAATGGTTAAAC
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

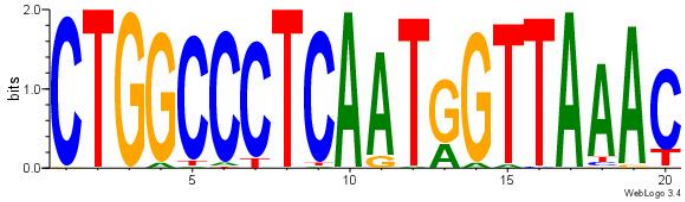

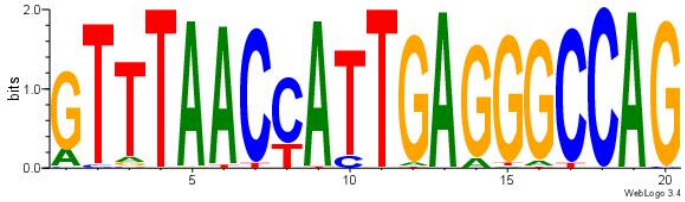

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115985

Alignment:

```
ATGGCTGAATAKTATTCCAT
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

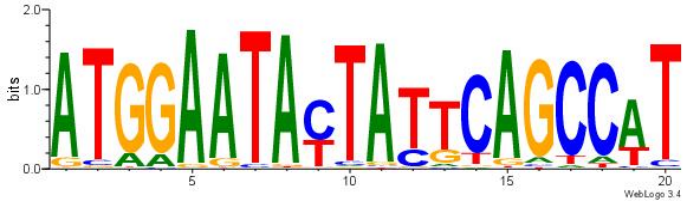

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

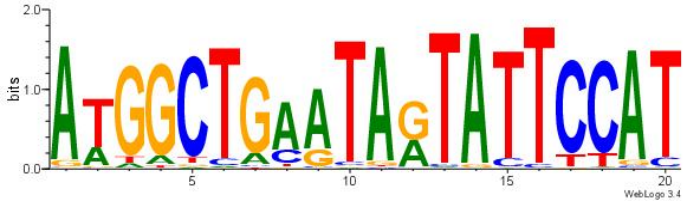

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117799

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

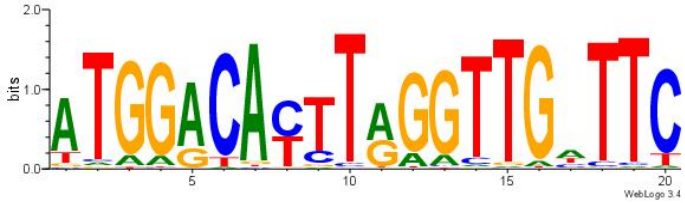

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

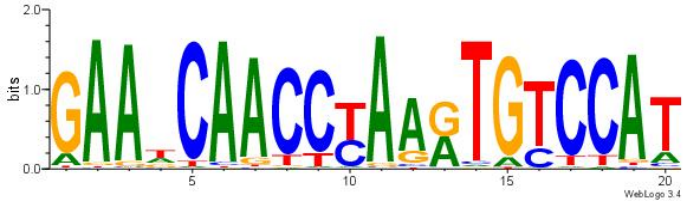

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.120018

Alignment:
CCCGAAGCTGCRYRCTCGGT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

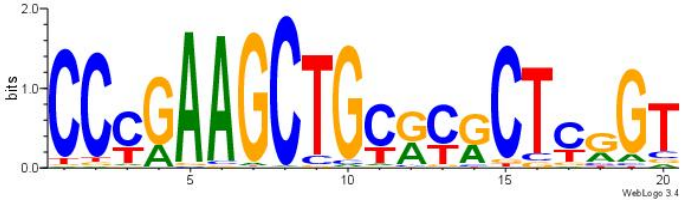

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

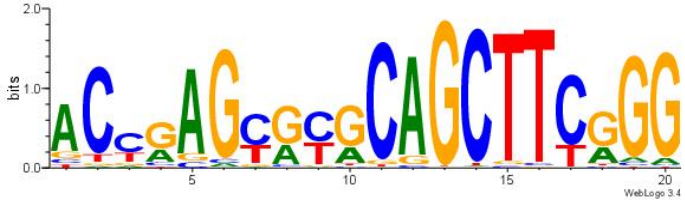

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.121484

Alignment:
GCCKGGMKCMGTGGCTCAKG
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

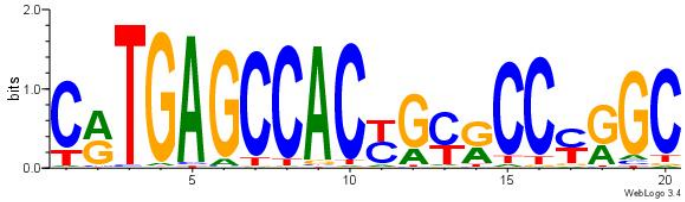

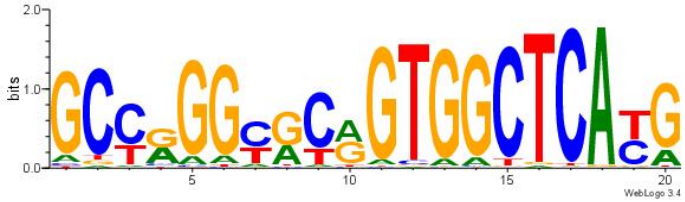

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124383

Alignment:
GCTCCACCCAGTTCGAGCTT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

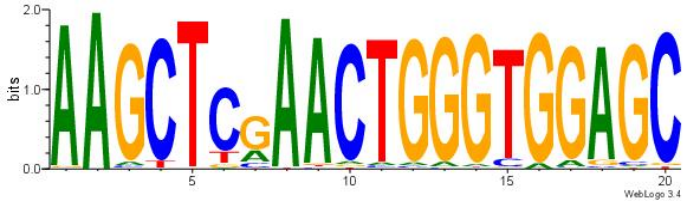

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

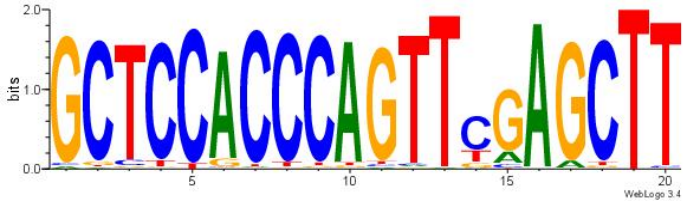

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126559

Alignment:

```
TACCTGAGACTGGGTAATTT
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

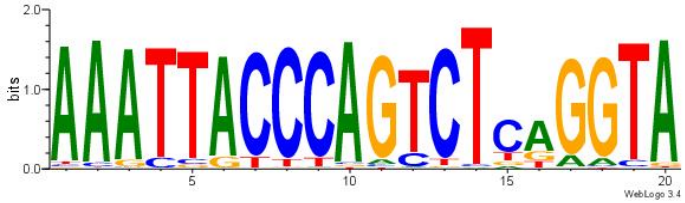

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

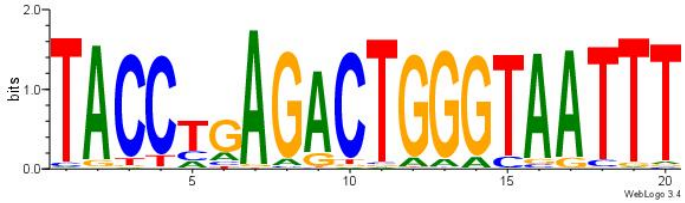

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.126715

Alignment:
GAAACTGCTTTGTGATGTGT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

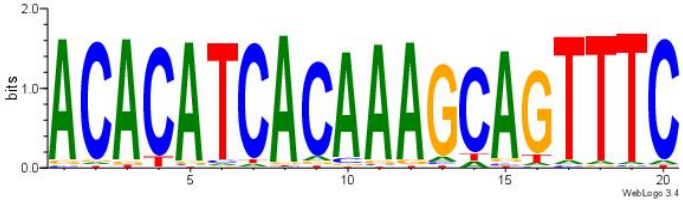

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

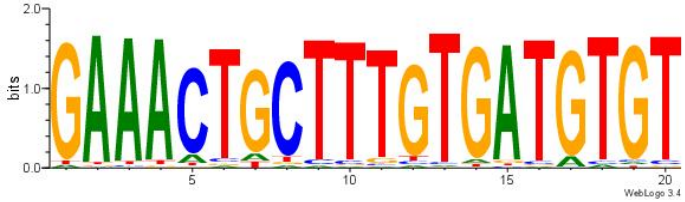

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.127333

Alignment:
CTCCAGKTMCATCCATGTTG
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

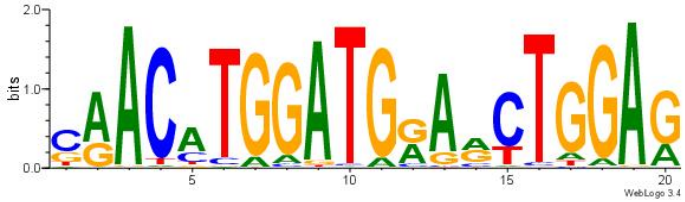

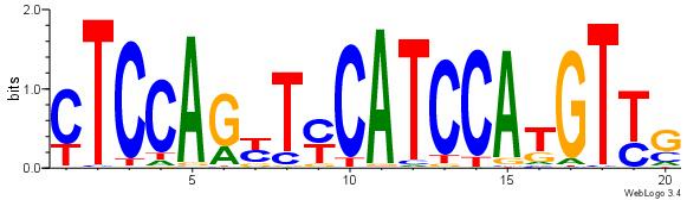

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127765

Alignment:

```
AATGAKATCATGTCYTTTGC
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

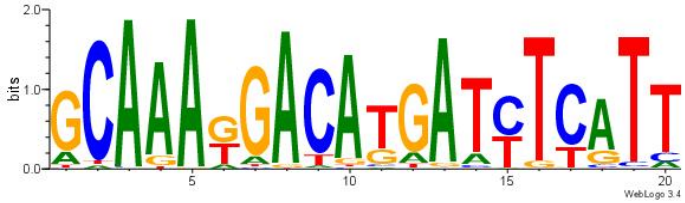

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

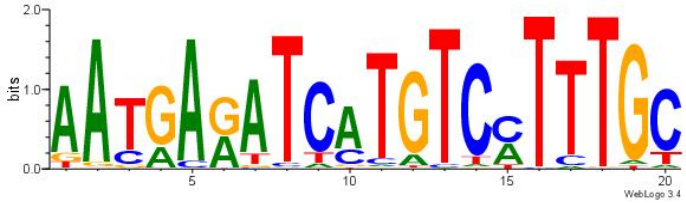

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12938

Alignment:

```
AAGCAGGGCGAGGCATTGCC
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

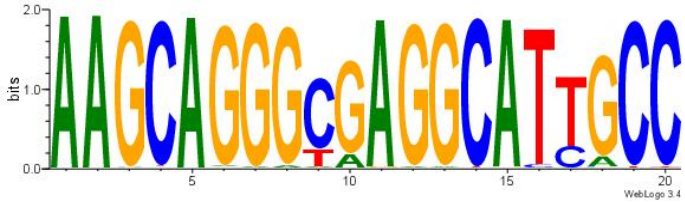

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

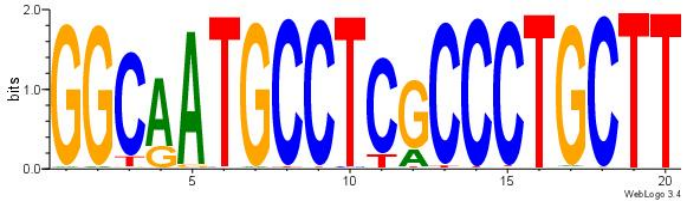

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131626

Alignment:
CTGGGCRACAGAGYRAGACY
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

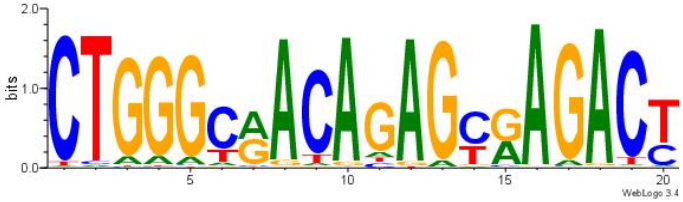

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

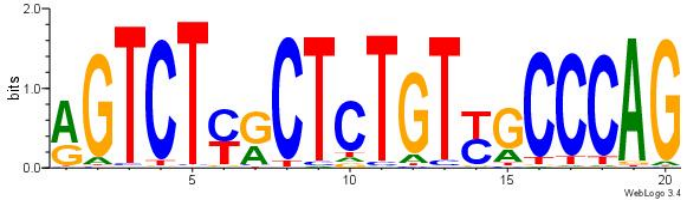

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132711

Alignment:
AAATTAGGCCAATTAATAAC
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

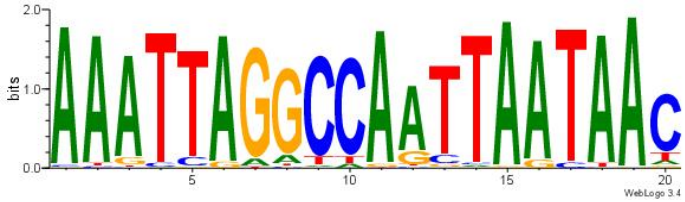

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132874

Alignment:

```
ACTTTGGACTGTGGACTTTT
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

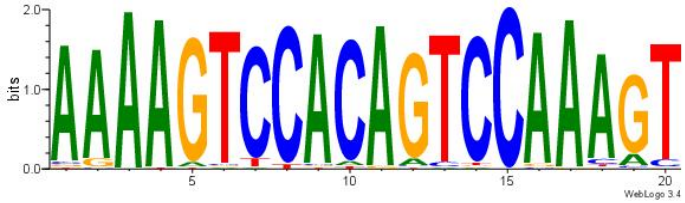

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

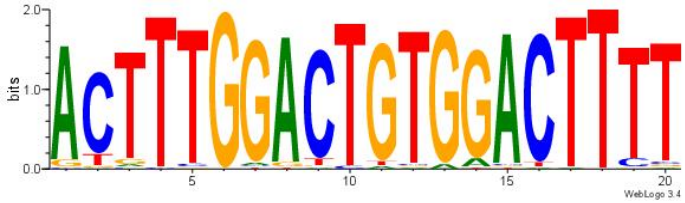

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134045

Alignment:

```
AACAACASACACTGGGGCCT
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

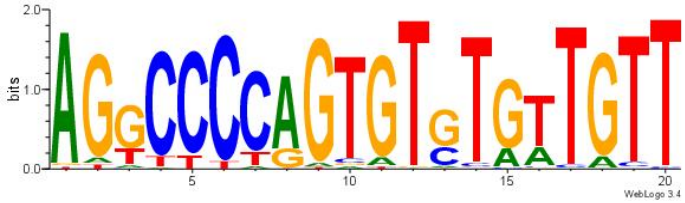

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

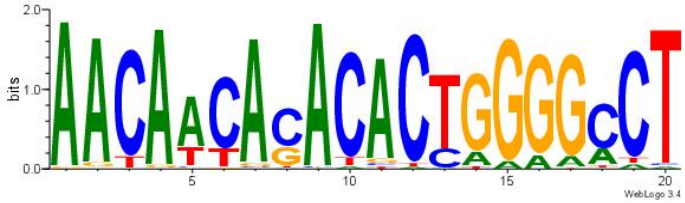

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134216

Alignment:
MGGGATATAATCTCCTGGTG
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

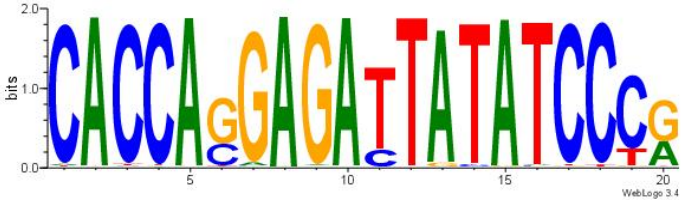

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

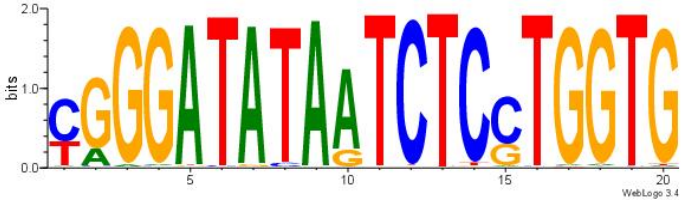

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.13568

Alignment:
GCTGGAGTGCAGTGGCRYGA
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

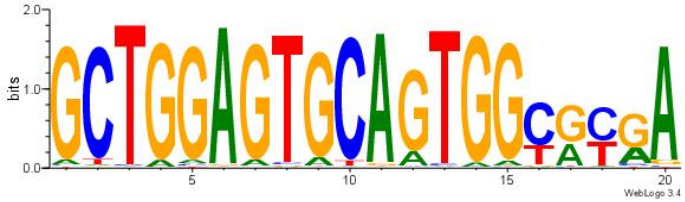

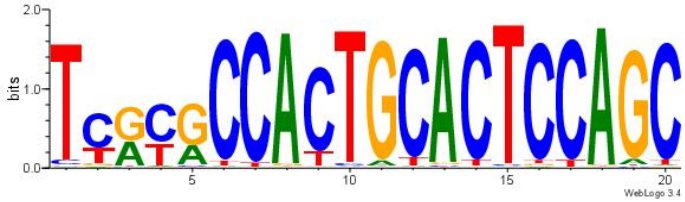

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136086

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

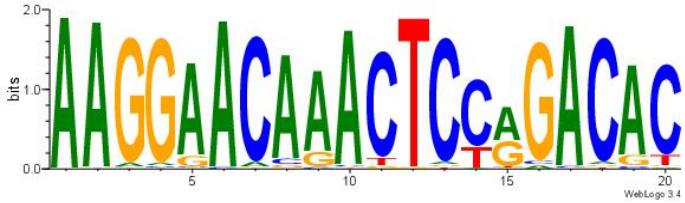

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

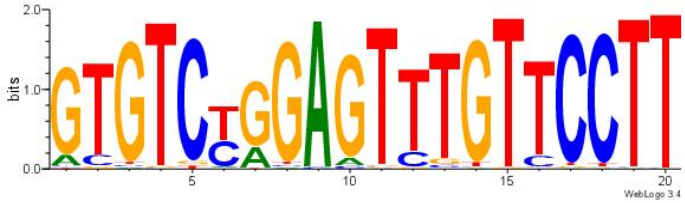

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136193

Alignment:
ATGTGGAGGTGGAAGACAGT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

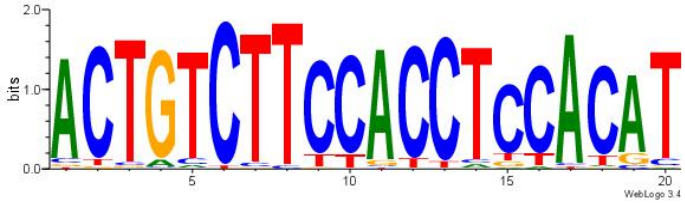

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

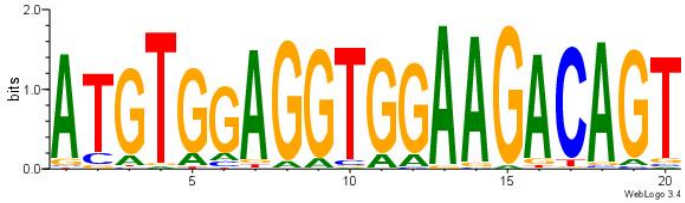

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.137223

Alignment:
AGCCYCTGGYAACCAYYAWT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

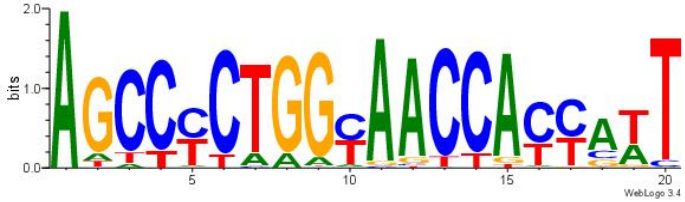

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

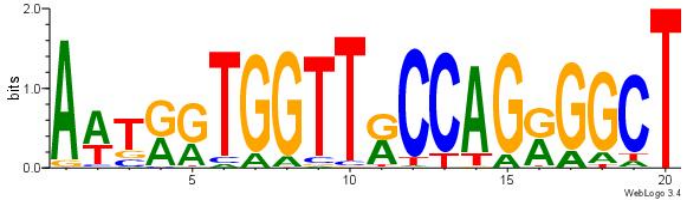

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.139065

Alignment:
ATCTGACAGGAGGYRGAGCT
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

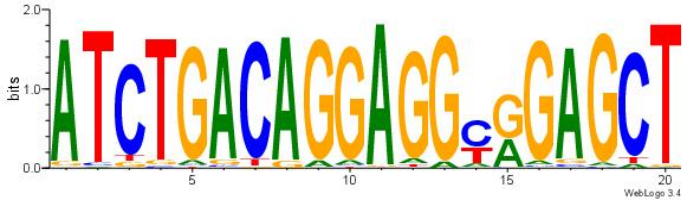

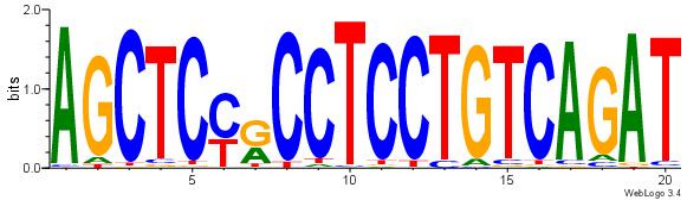

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139191

Alignment:

```
TGGAGAACCTTTATGTCTAG
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

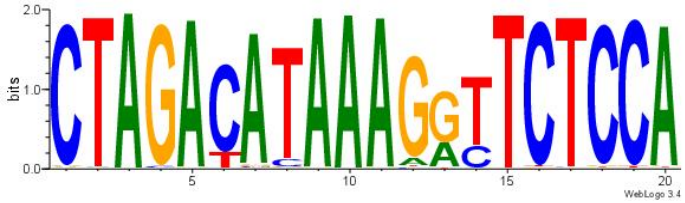

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

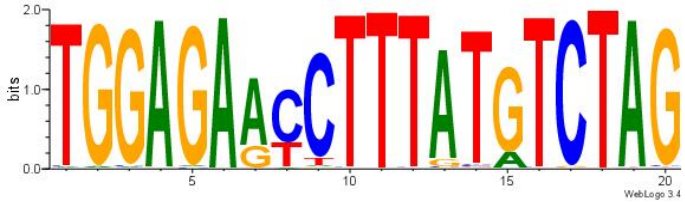

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139389

Alignment:

```
GCTGTGTGACCTTGGGCAAG
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

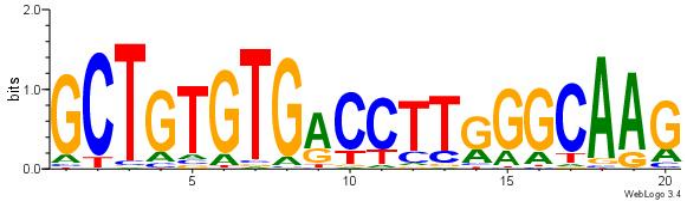

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

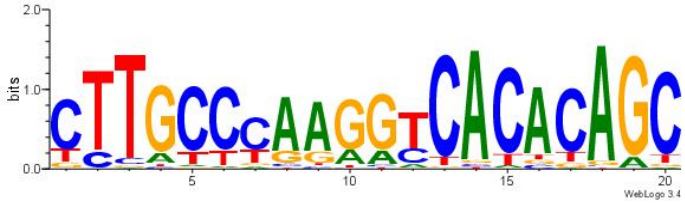

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139568

Alignment:
ATAGGAATGCTTGTGATTTT
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

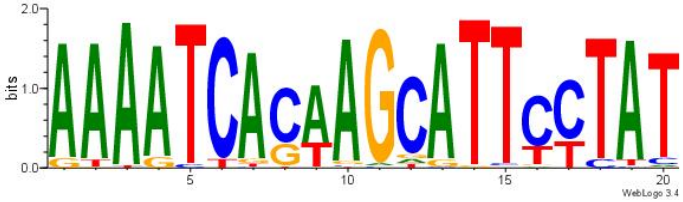

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

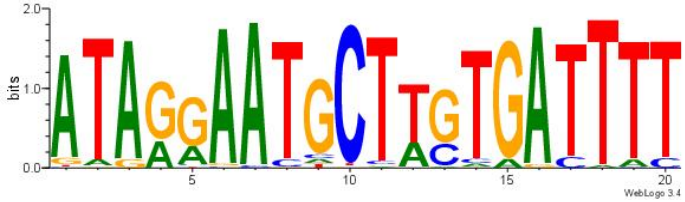

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.139752

Alignment:
GTKTMTATMTACCACATTTT
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

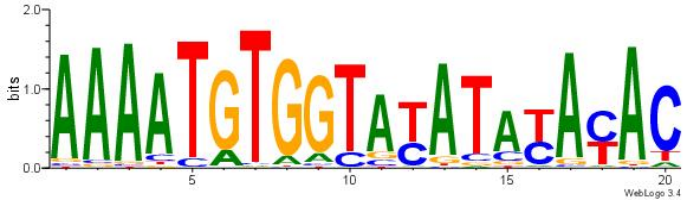

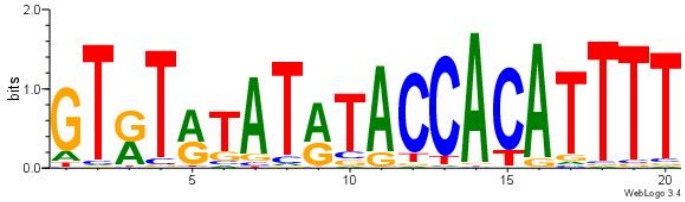

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140675

Alignment:

```
CAGCTACTCKTATACCCTTG
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

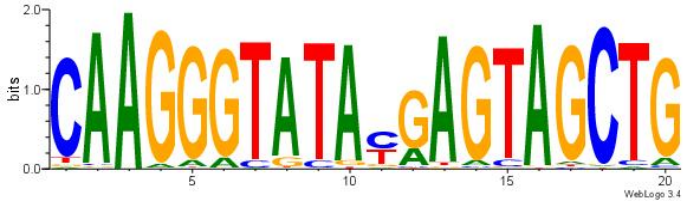

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

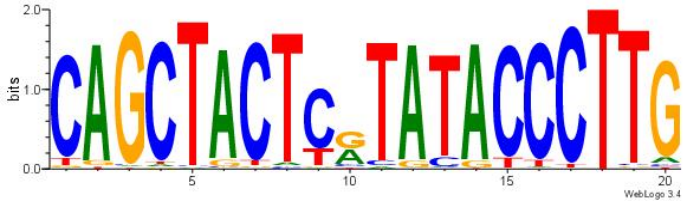

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142454

Alignment:

```
AGTAGGTGCTCARTAAATRB
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

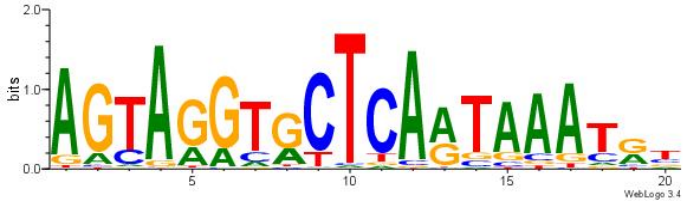

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

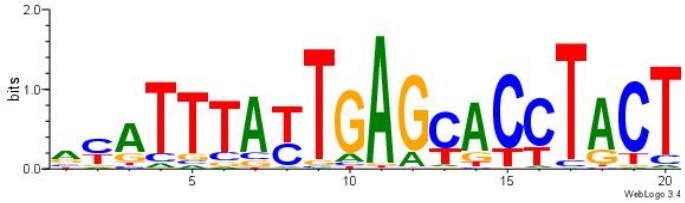

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.142602

Alignment:
CTCCTGCCTCAGCCTCCCRA
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

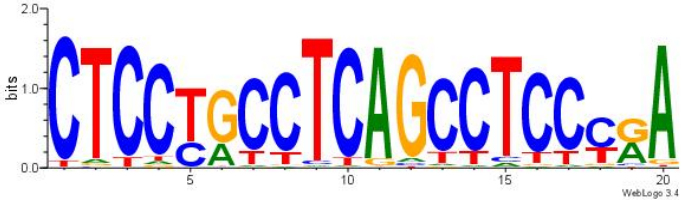

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

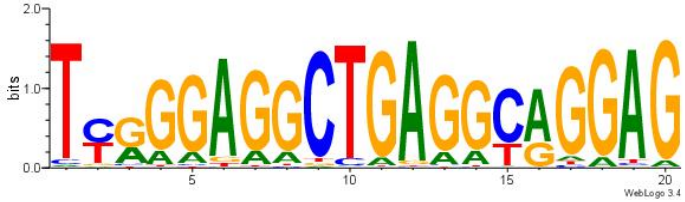

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143976

Alignment:
CTGGGCTCCTGAGTCTGGTG
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

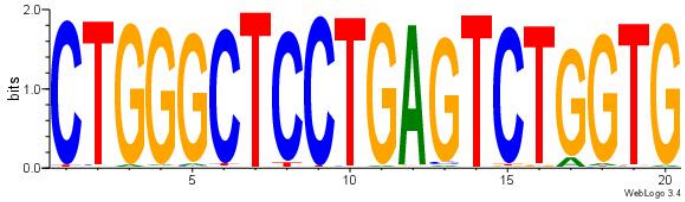

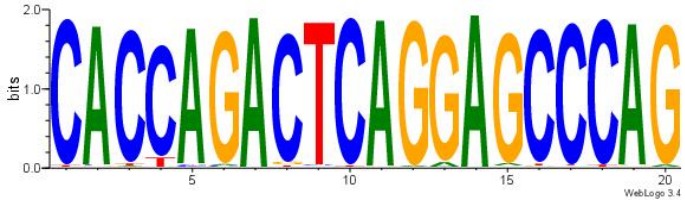

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1457

Alignment:

```
GCCAGTCACAAAARGACAMA
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

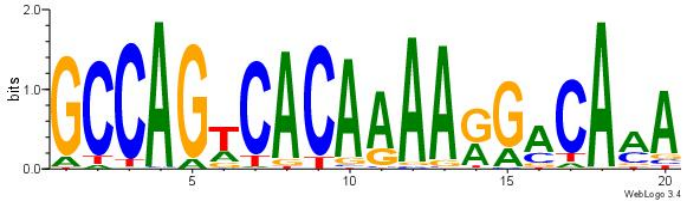

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

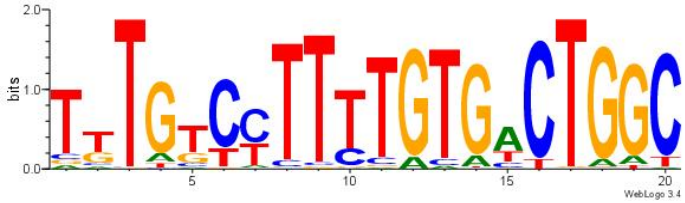

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145705

Alignment:

```
CAGGTGGTKTTTGGTTACAT
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

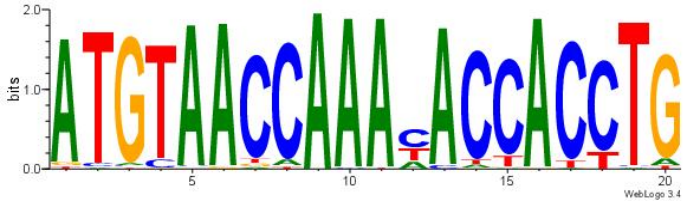

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

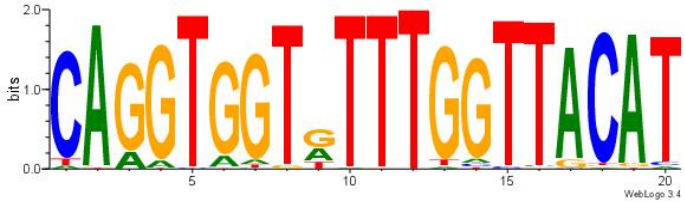

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147131

Alignment:
ACTCCCTAGTGAGATGAACC
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

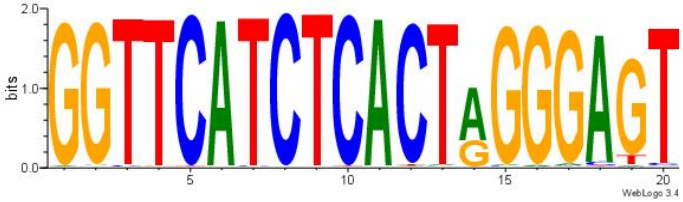

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

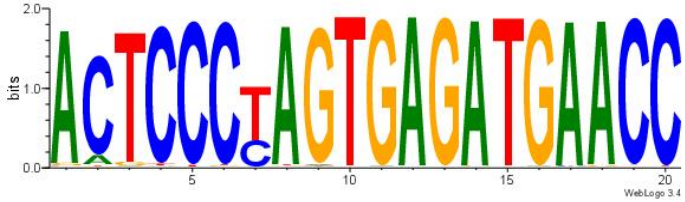

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.147376

Alignment:
AGGTCCTTCAGGAGGTATTC
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

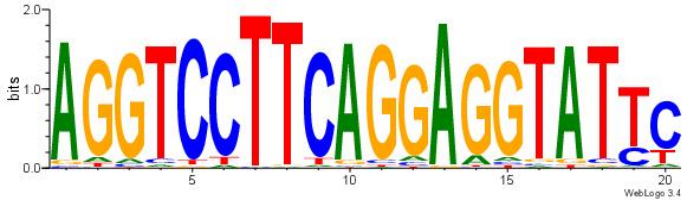

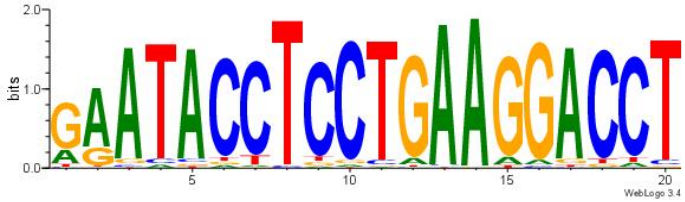

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147515

Alignment:

```
TTGTCCCACTGGAAGGTCTT
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

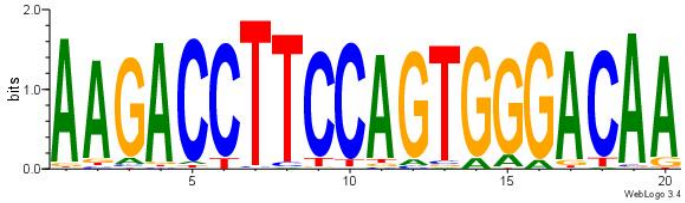

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

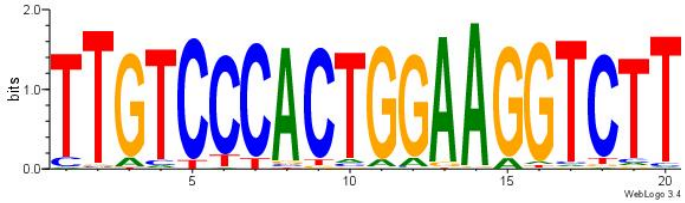

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148159

Alignment:
GCTGGCCCGCAAGCGCCGCG
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

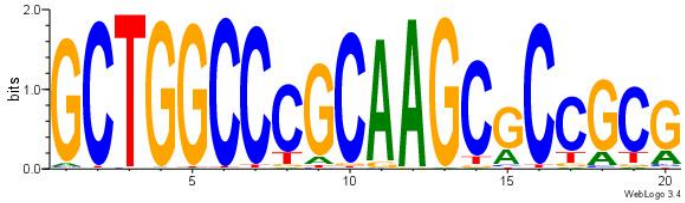

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

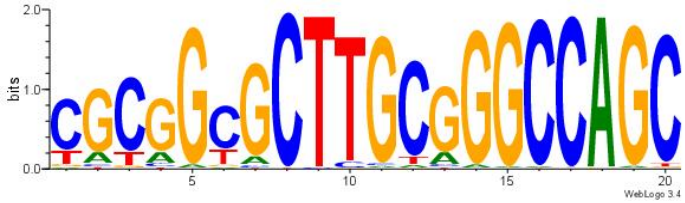

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150222

Alignment:
KCCGGGCCTTAGCTGCCTTC
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

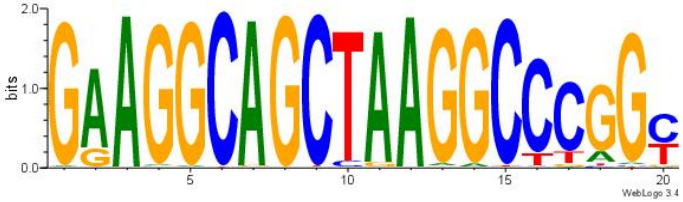

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

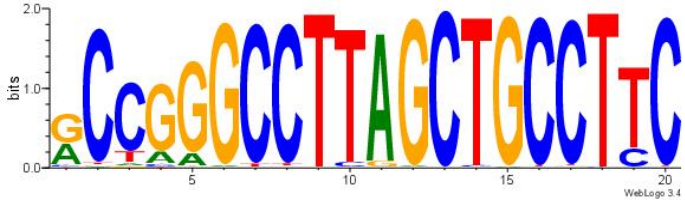

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150334

Alignment:
GGAGGTGTGGAGGGAGAGGC
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

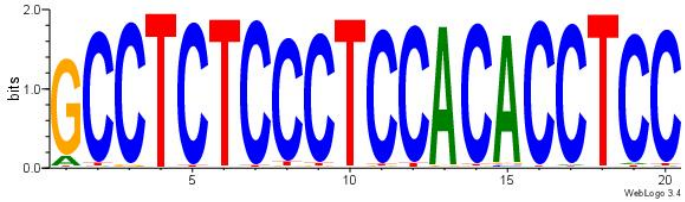

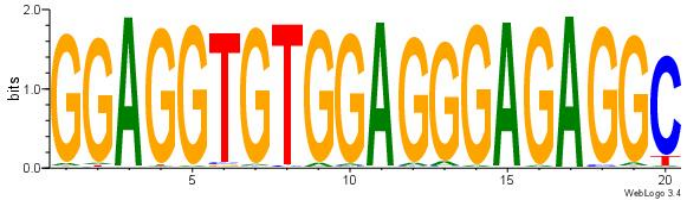

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150836

Alignment:

```
ATGATCCAGCAATYCCACTH
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

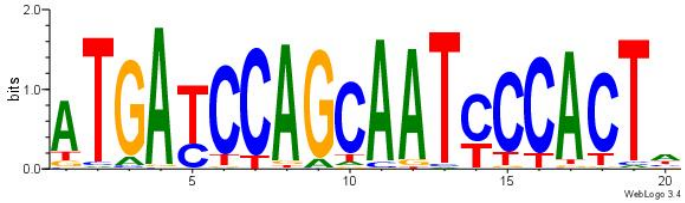

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

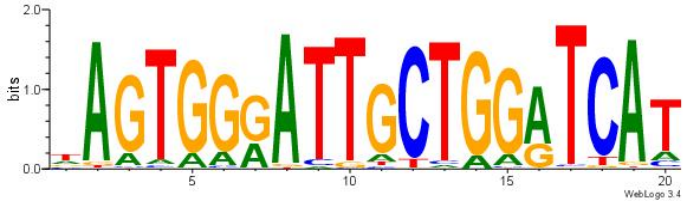

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151299

Alignment:

AAGCTGAGGGAGCCGGCTCC
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

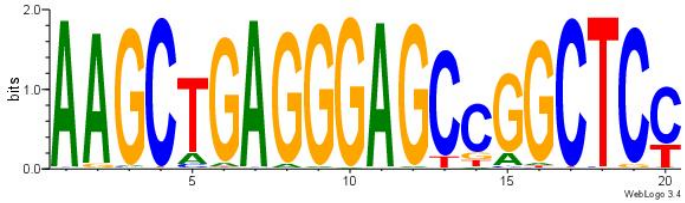

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

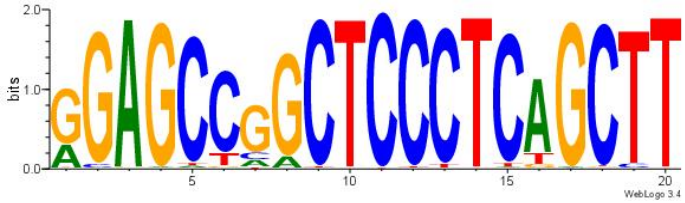

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151565

Alignment:
CGGCGCTGMGCTCGATTTCT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

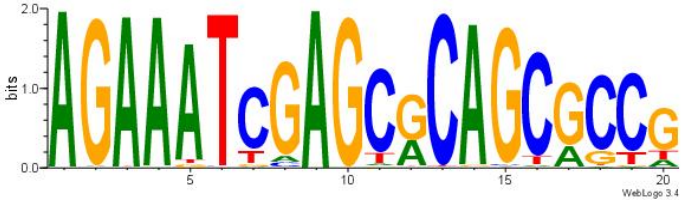

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

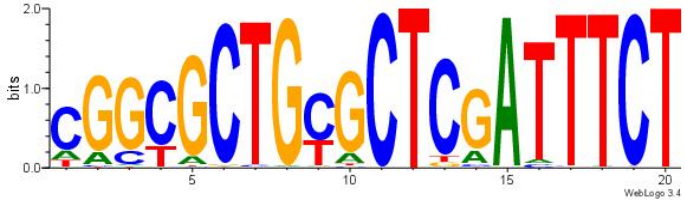

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151591

Alignment:
GGCACTGCTGGGGGACCCAG
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

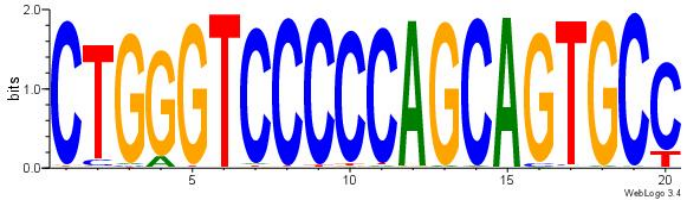

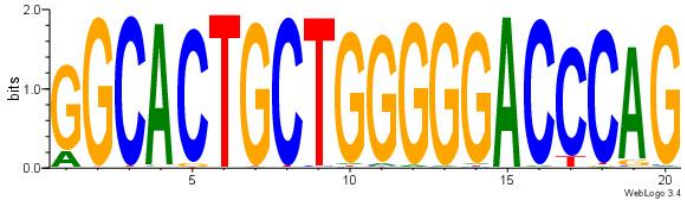

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151926

Alignment:

```
CGTCGCTCACGCTGGGAGCT
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

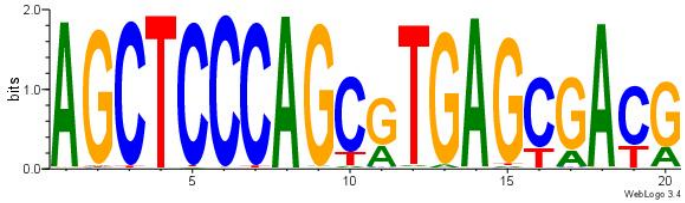

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

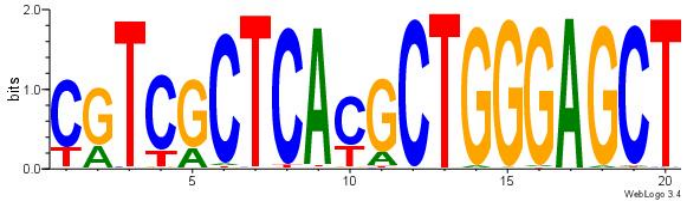

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152152

Alignment:

```
AGTGACCCGATTTTCCAGGT
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

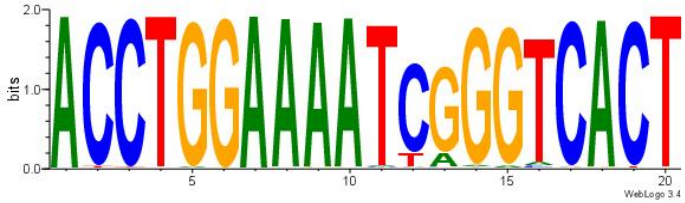

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

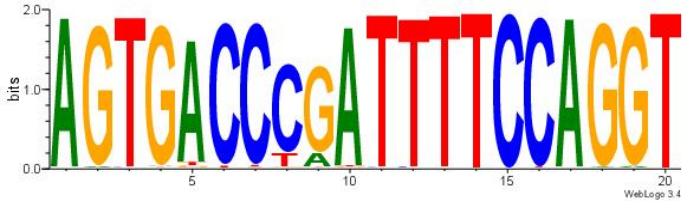

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152888

Alignment:
TAAAAGACTACAWATTGGGT
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

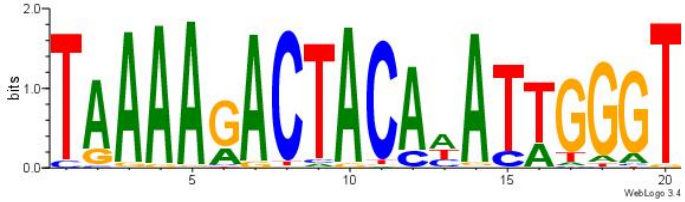

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

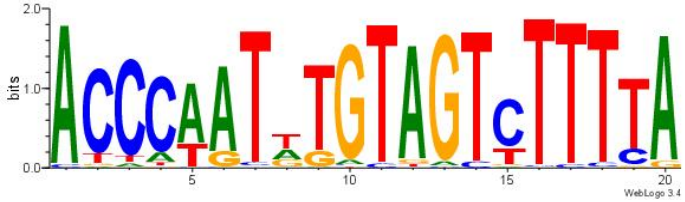

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153559

Alignment:
CGAGCCTCCCCGAYGAGCGC
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

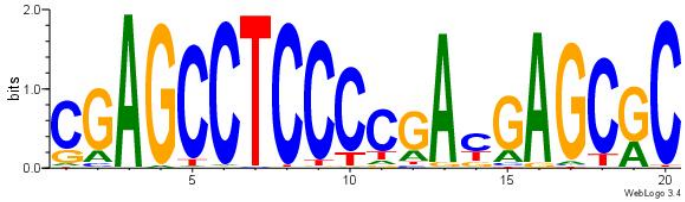

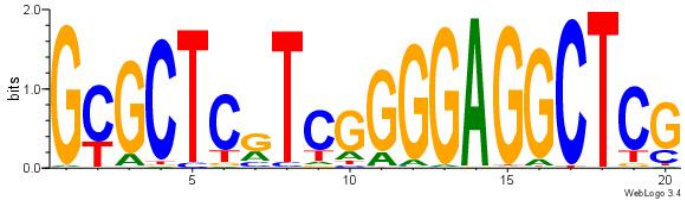

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15434

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
AATCAACCCTGGYRATCAAT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

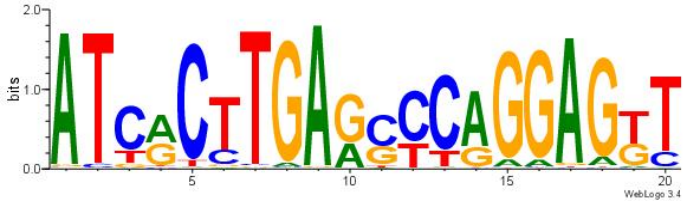

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

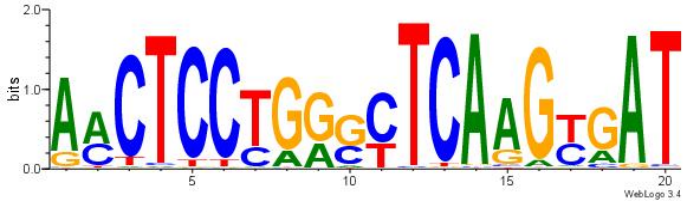

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154562

Alignment:

```
GGGCTCCCACAGTGCAGCGG
ATTGATMKCCAGGGTTGATT
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

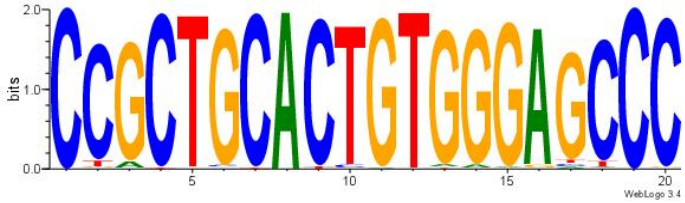

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

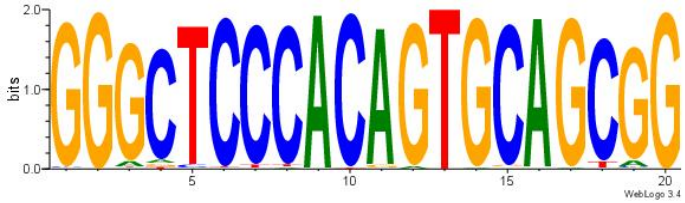

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155496

Alignment:
TCCAAATGGGAGAAATTGGC
AATCAACCCTGGYRATCAAT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

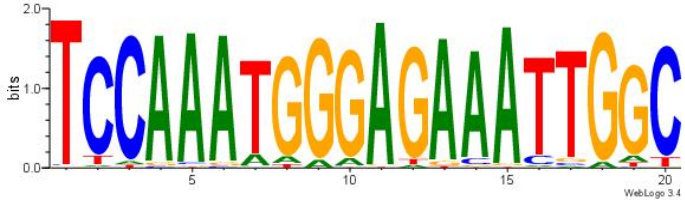

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

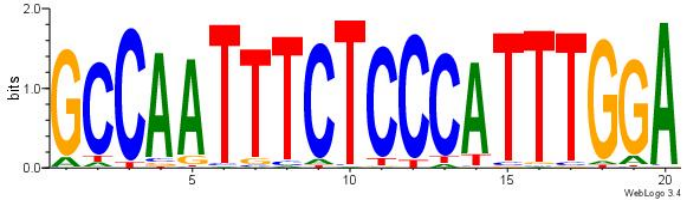

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.156696

Alignment:
GTGCCAGGCACTGTKCTARG
ATTGATMKCCAGGGTTGATT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

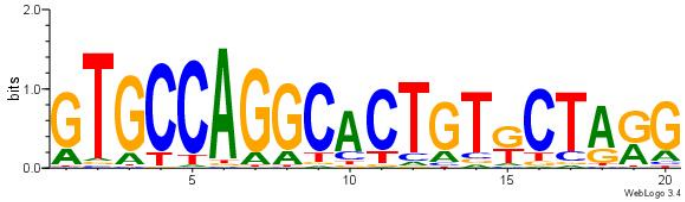

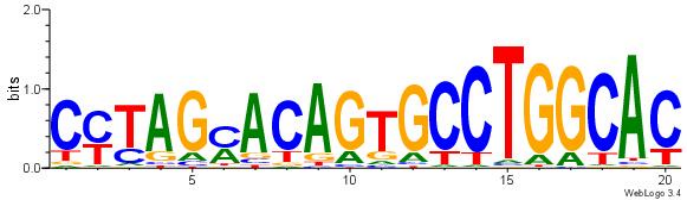

Dataset #: 1 **Motif ID: 171** **Motif name: Motif 171**

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

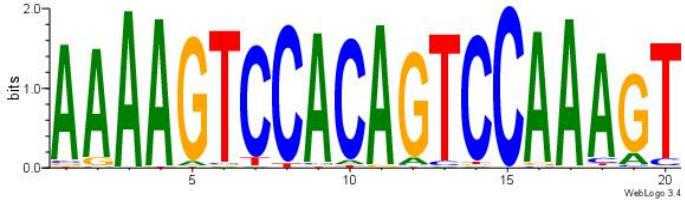

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

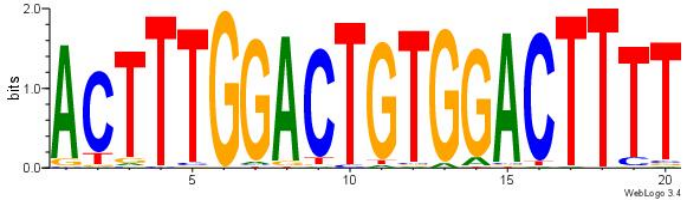

Best Matches for Motif ID 171 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11926

Alignment:

CCGCTGCACTGTGGGAGCCC
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

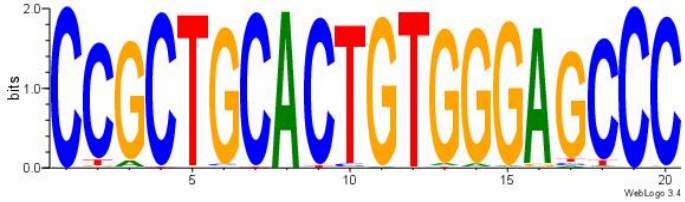

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

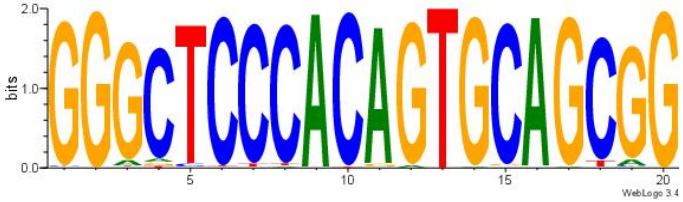

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121669

Alignment:
AGTGAGAACATRYRRTRTTT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

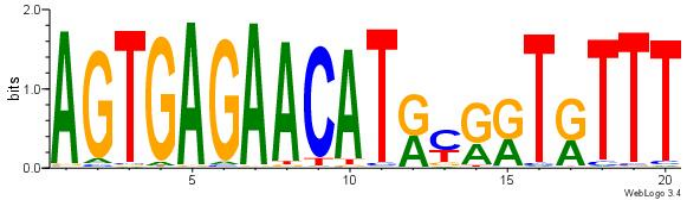

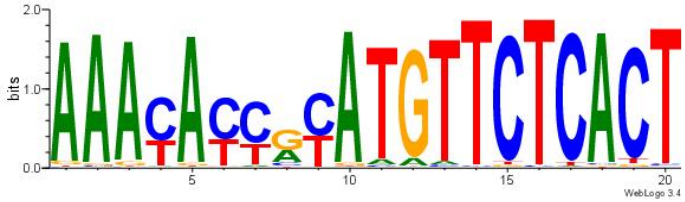

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124783

Alignment:
HAGTGGKATTGCTGGATCAT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

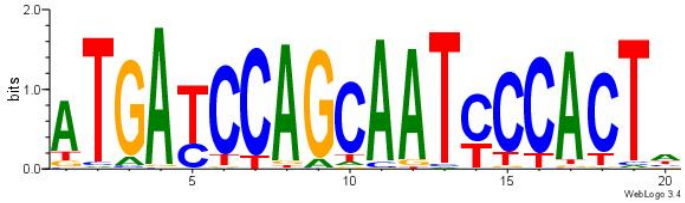

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

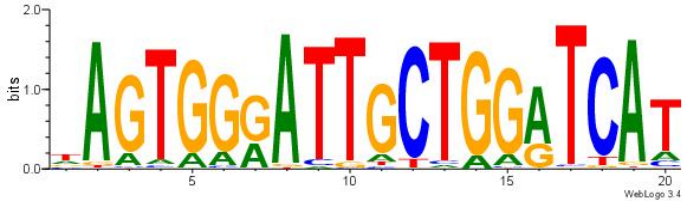

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127032

Alignment:

AGGCCCCAGTGTSTGTTGTT

ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

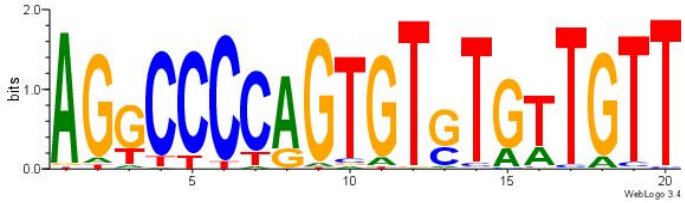

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

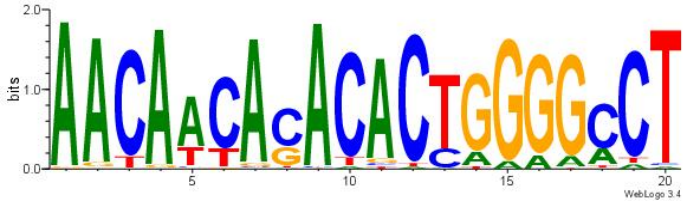

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.127973

Alignment:
ACACATCACAAAGCAGTTTC
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

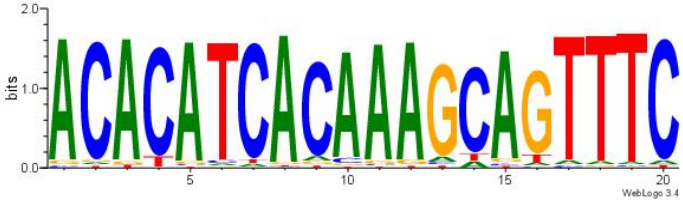

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

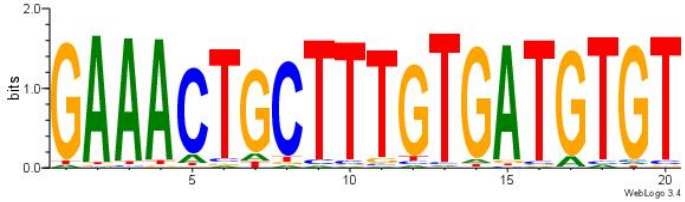

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136138

Alignment:
AAGACCTTCCAGTGGGACAA
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

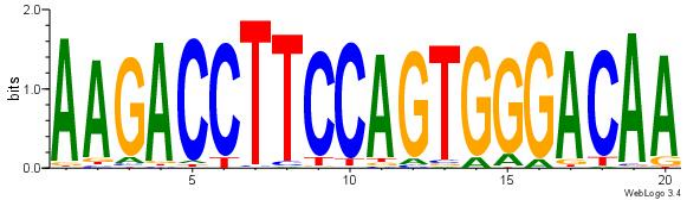

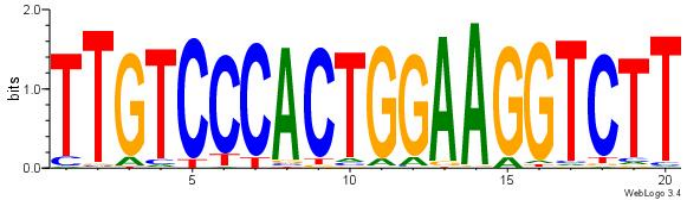

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136692

Alignment:
GCCKGGMKCMGTGGCTCAKG
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

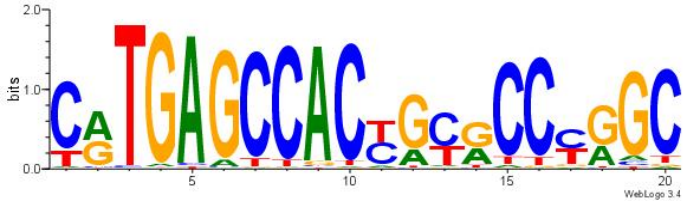

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

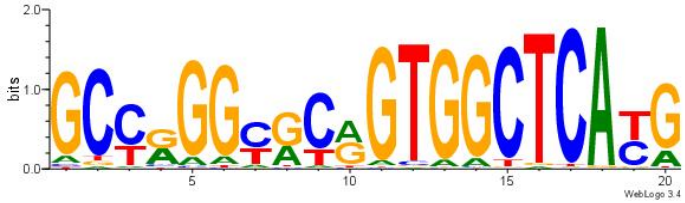

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13739

Alignment:

```
CAGGTGGTKTTTGGTTACAT
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

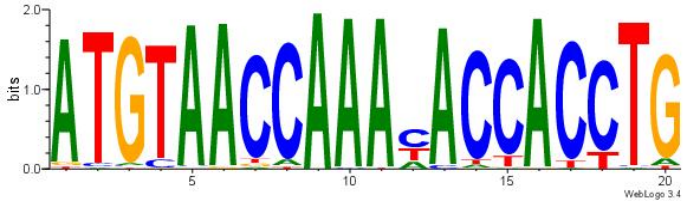

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

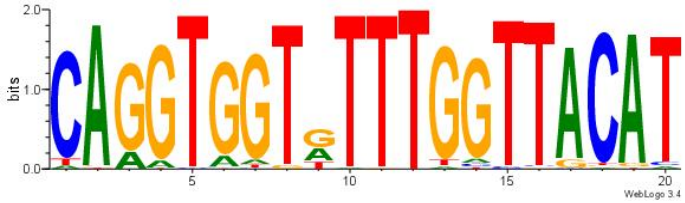

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137523

Alignment:
AAATTAGGCCAATTAATAAC
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

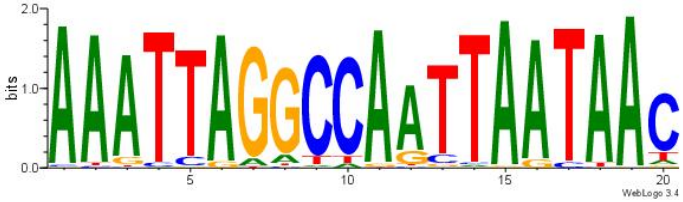

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141128

Alignment:
ATTGATMKCCAGGGTTGATT
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

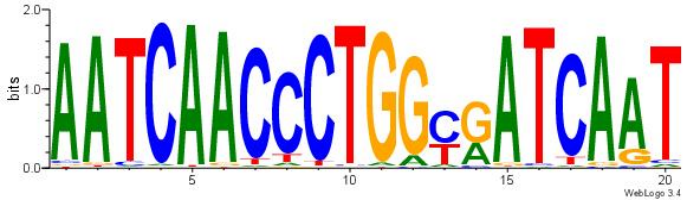

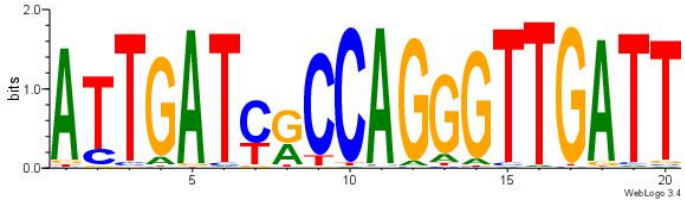

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141267

Alignment:

```
VMATTTAKTGAGCACCTACT
AAAAGTCCACAGTCCAAAGT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

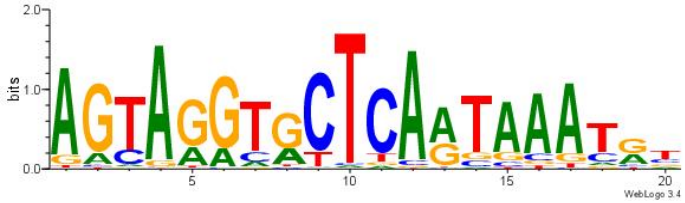

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

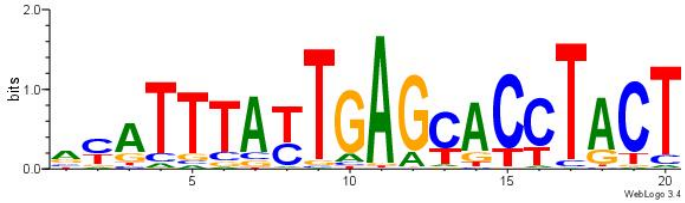

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142115

Alignment:
TMGGGAGGCTGAGGCAGGAG
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

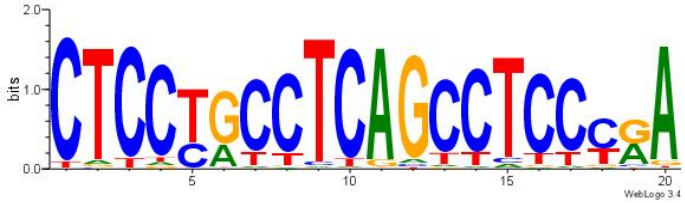

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

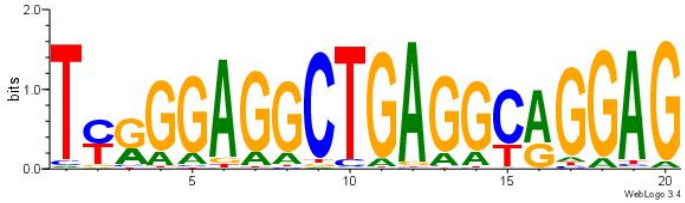

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.142193

Alignment:
AGCTCMKCCTCCTGTCAGAT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

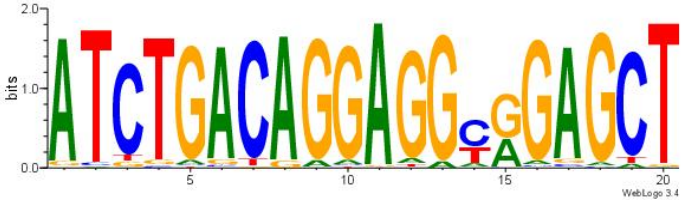

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

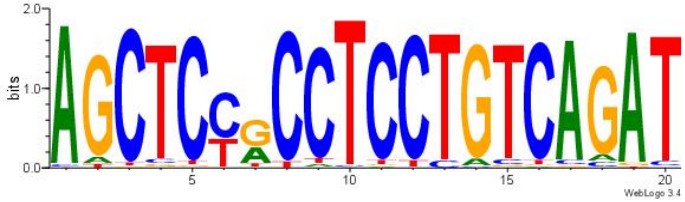

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142362

Alignment:
AGTGACCCGATTTTCCAGGT
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

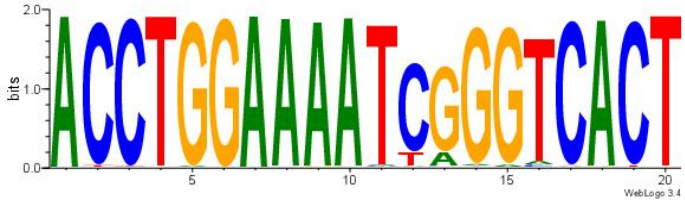

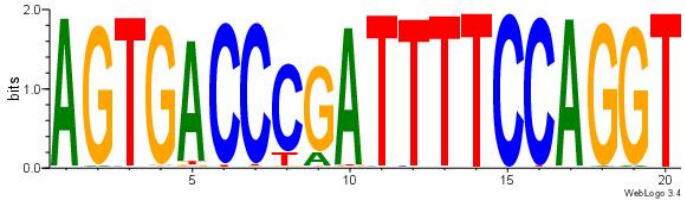

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143127

Alignment:

```
GAAAGGGAACTCCCTGACCC
AAAAGTCCACAGTCCAAAGT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

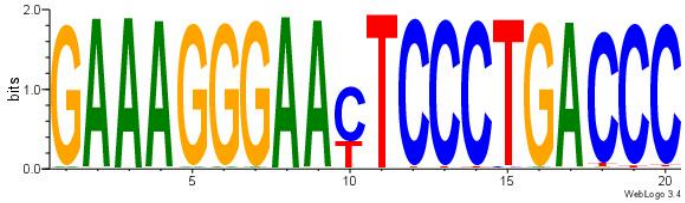

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

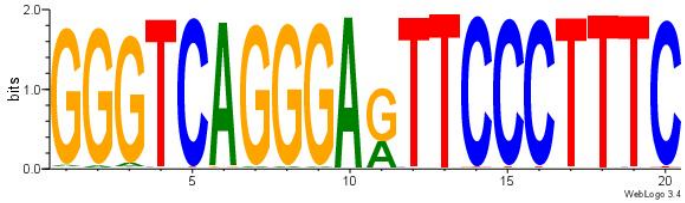

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145467

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

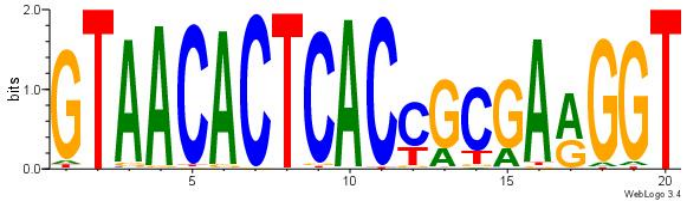

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

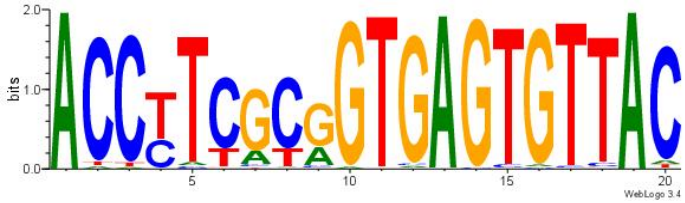

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147411

Alignment:
AAATTACCCAGTCTCAGGTA
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

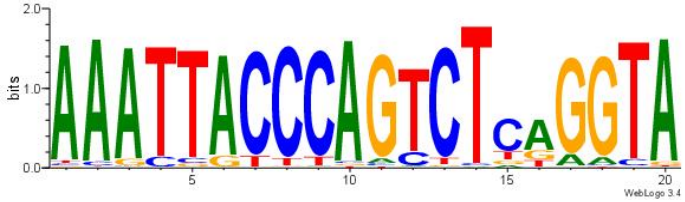

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

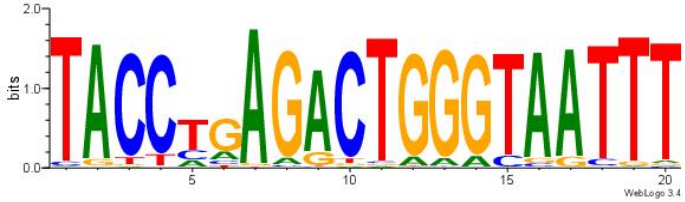

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.147456

Alignment:
TAATTTTATGTGTCAACTTG
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

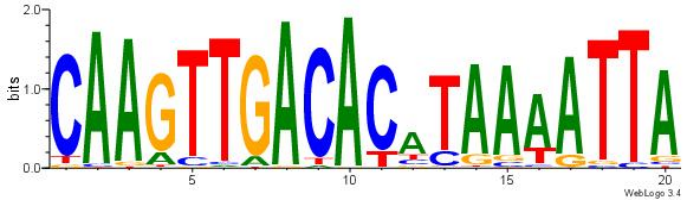

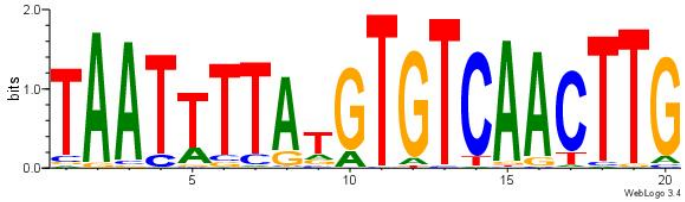

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14824

Alignment:

```
GCACATGTAYCCYAGAACTT
AAAAGTCCACAGTCCAAAGT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

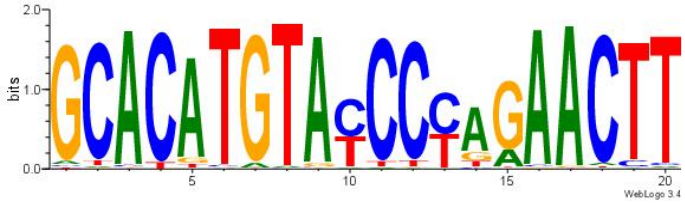

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

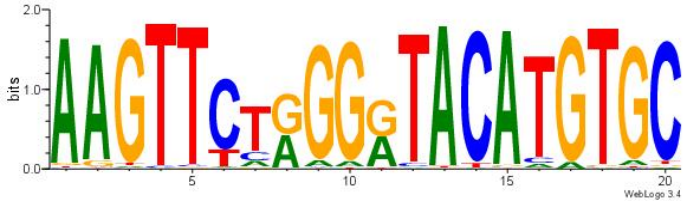

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148645

Alignment:

```
ACCCAATWTGTAGTCTTTTA
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

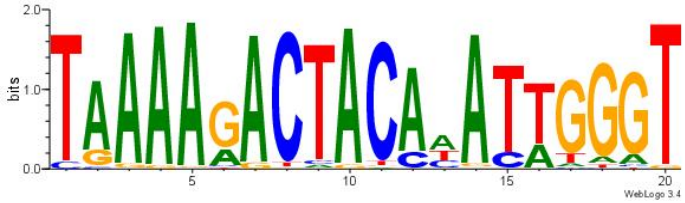

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

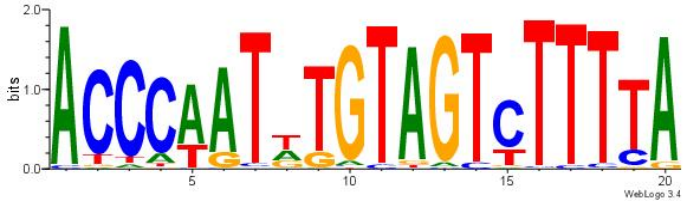

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.1494

Alignment:
AAGCTCGAACTGGGTGGAGC
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

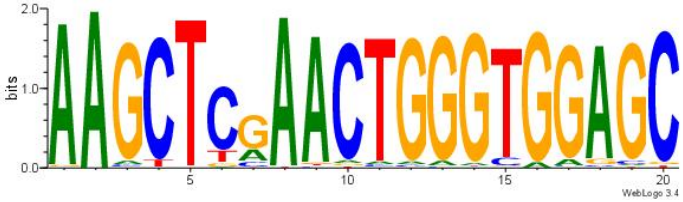

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

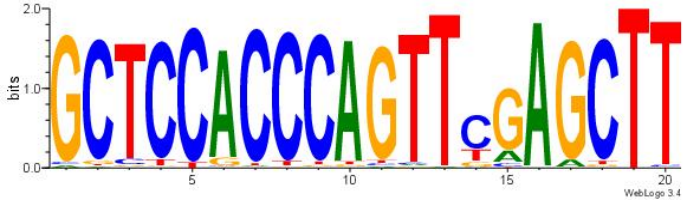

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149507

Alignment:
ATAGGAATGCTTGTGATTTT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

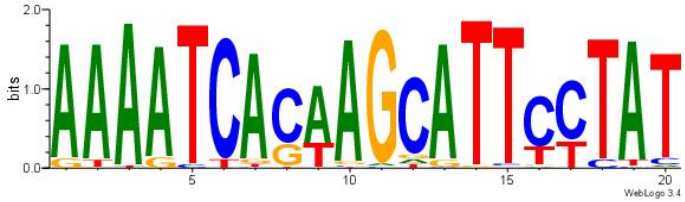

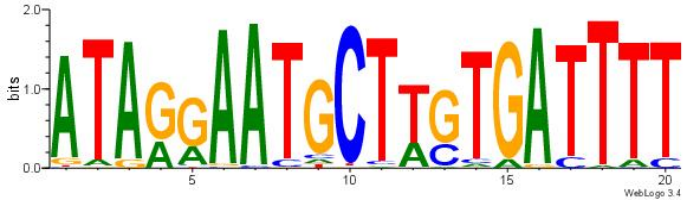

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149595

Alignment:

```
AGAAATCGAGCRCAGCGCCG
AAAAGTCCACAGTCCAAAGT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

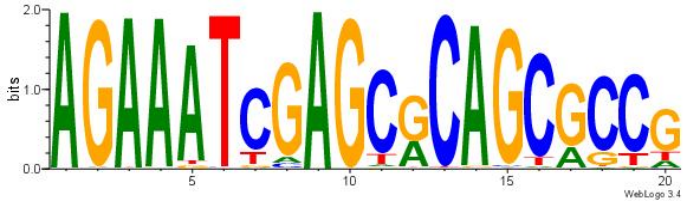

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

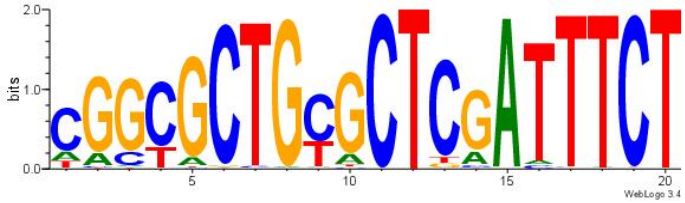

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149691

Alignment:

```
ATTGGTGTATTTACAATCCC
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

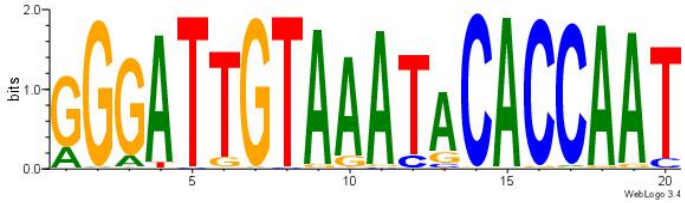

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149697

Alignment:
ATGGAATAYTATTCAGCCAT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

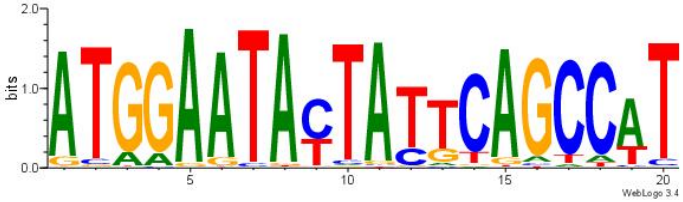

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

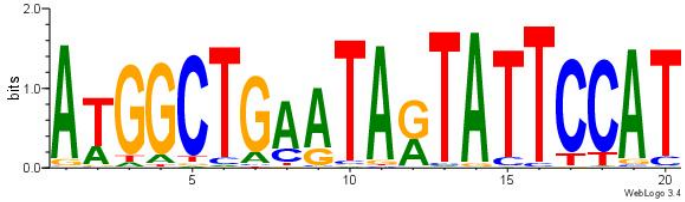

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150506

Alignment:
CCCMKGGCACCCTCAGTCCT
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

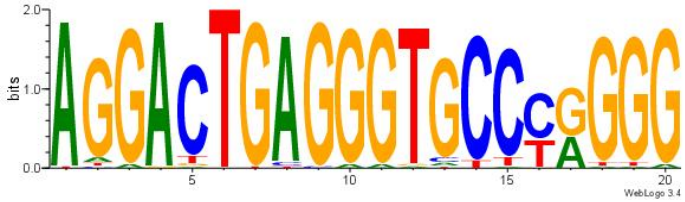

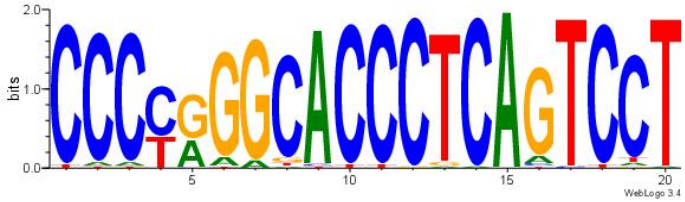

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151017

Alignment:

```
ACTGTCTTCCACCTCCACAT
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

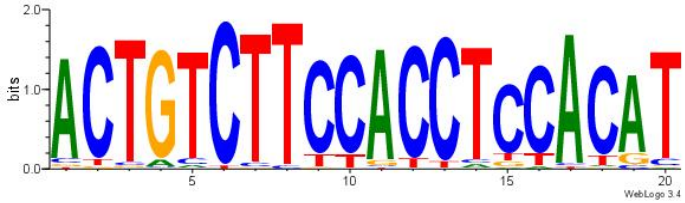

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

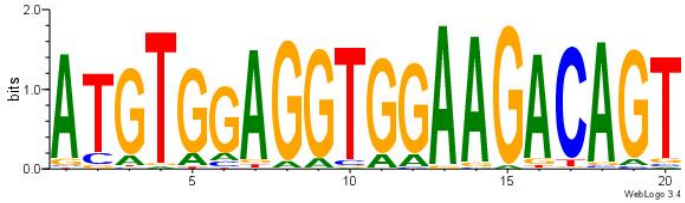

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151258

Alignment:

GTKTMTATMTACCACATTTT

ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

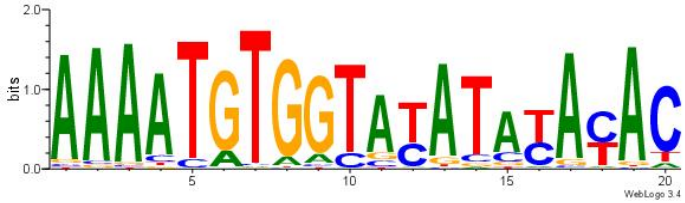

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

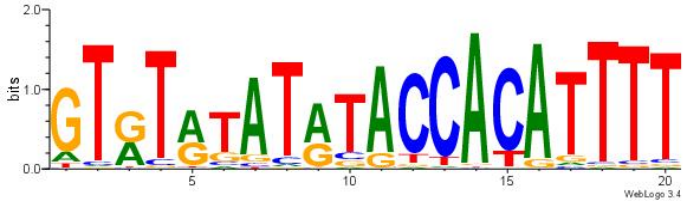

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151287

Alignment:
AGGTCCTTCAGGAGGTATTC
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

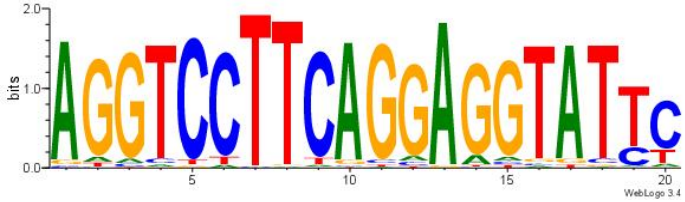

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

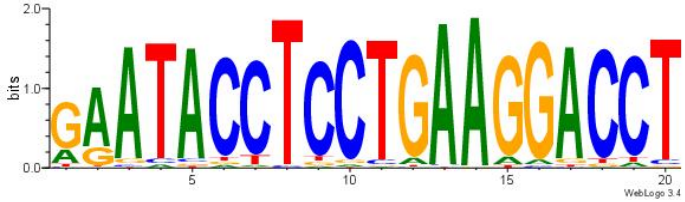

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151472

Alignment:
GGAGGTGTGGAGGGAGAGGC
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

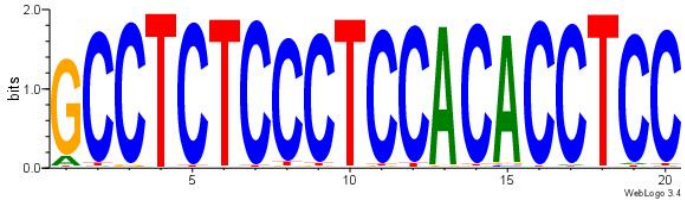

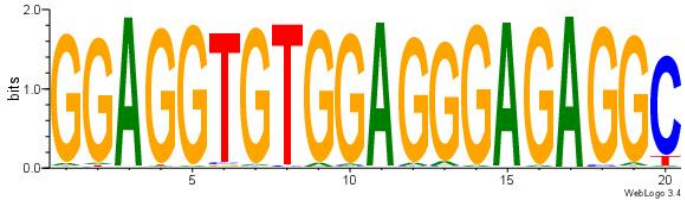

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151715

Alignment:
ACTCCCTAGTGAGATGAACC
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

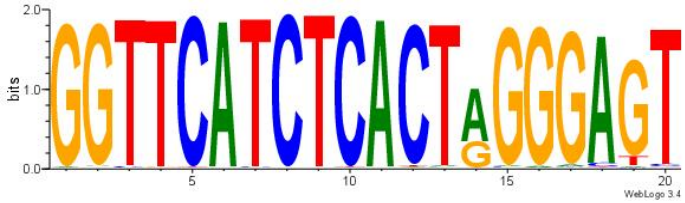

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

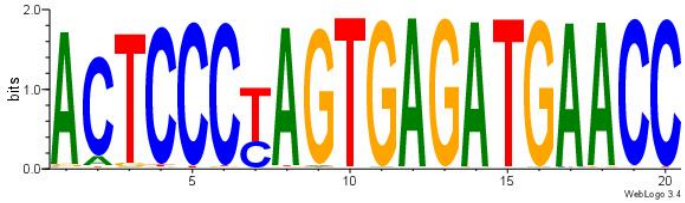

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151791

Alignment:
TYTGTCMTTTTGTGACTGGC
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

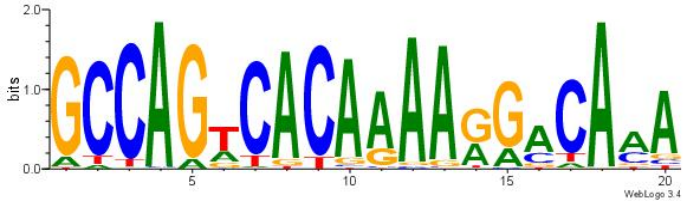

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

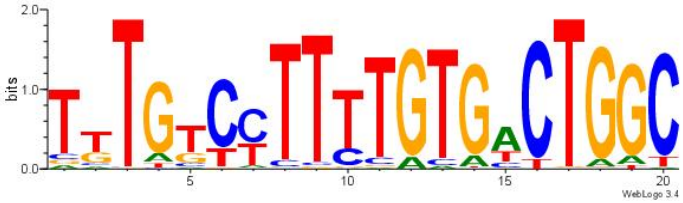

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.151845

Alignment:
AGCTCCCAGCGTGAGCGACG
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

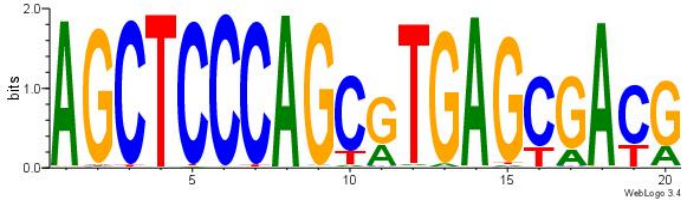

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

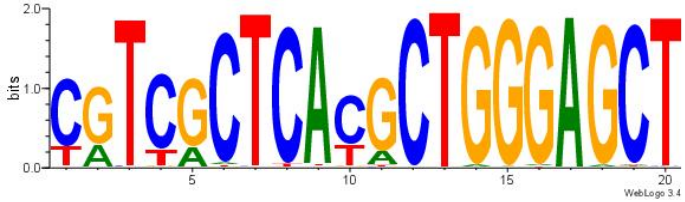

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152071

Alignment:
GCAAAKGACATGATYTCATT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

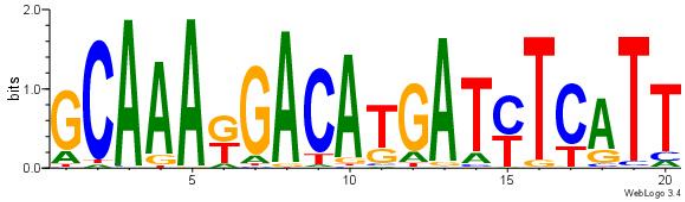

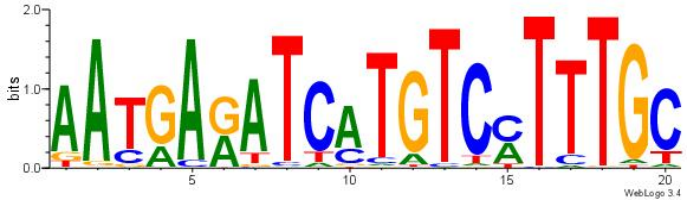

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153992

Alignment:

```
GTGCCAGGCACTGTKCTARG
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

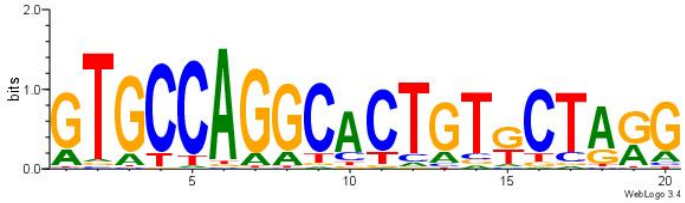

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

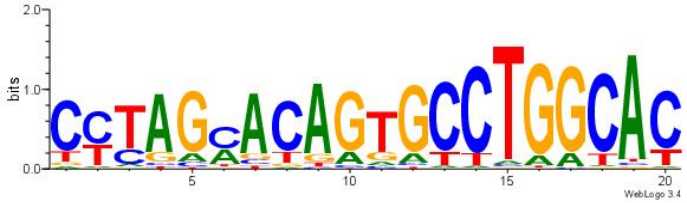

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154752

Alignment:

```
AAGCAGGGCGAGGCATTGCC
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

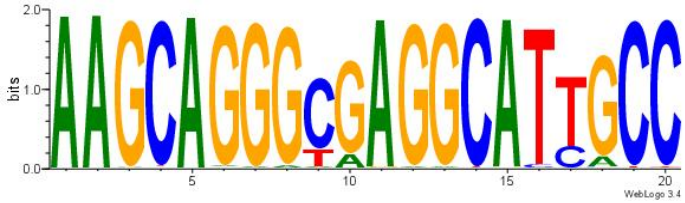

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

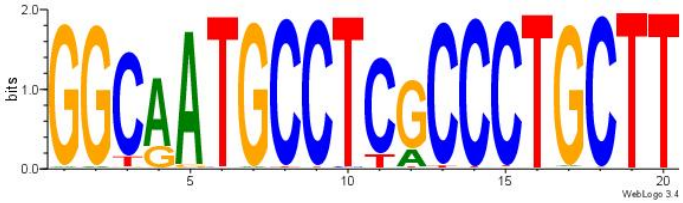

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155667

Alignment:
CGAGCCTCCCCGAYGAGCGC
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

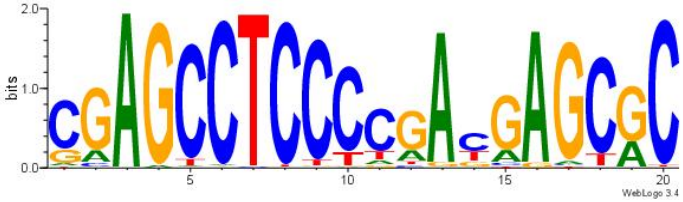

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

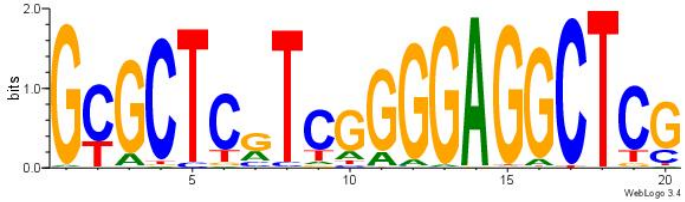

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156595

Alignment:
TCKMGCCACTGCACTCCAGC
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

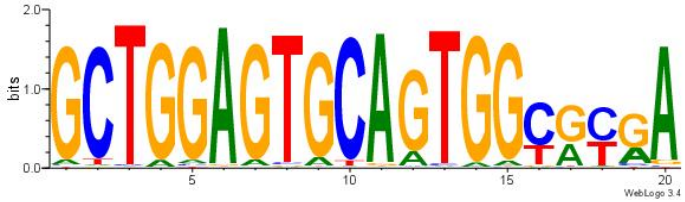

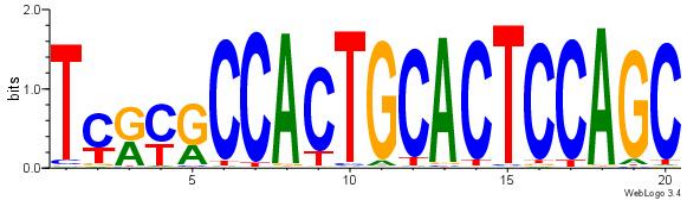

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157338

Alignment:

```
CCCATGCAAGTCYRAAATCC
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

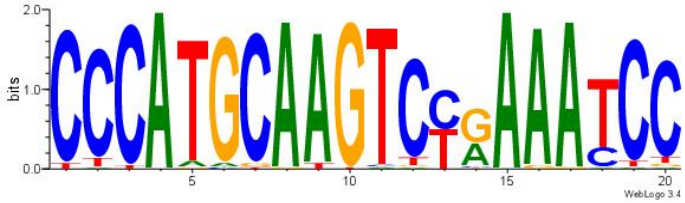

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

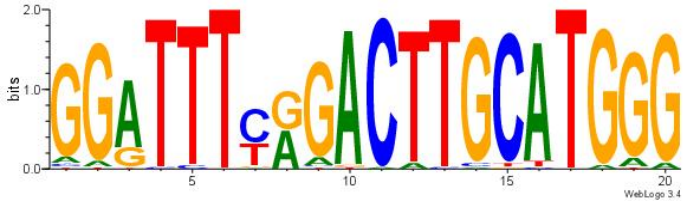

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157402

Alignment:
GAGAGAGAGAGAGAGAGAGA
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

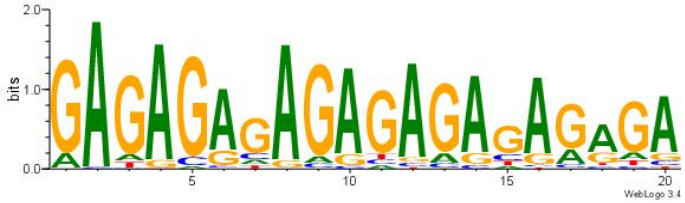

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

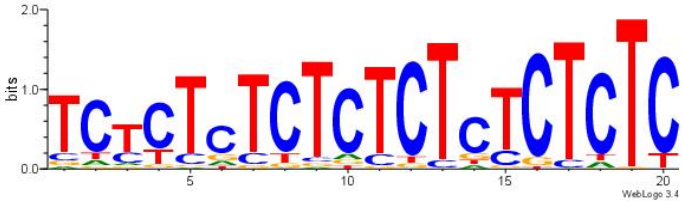

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157596

Alignment:
AWTKKTGGTTKCCAGKGGCT
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

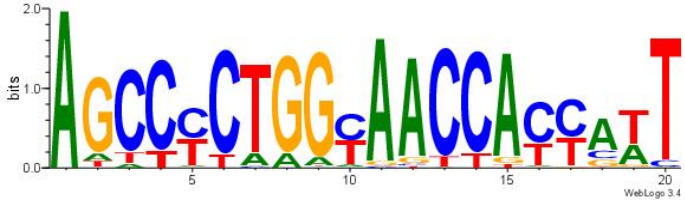

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

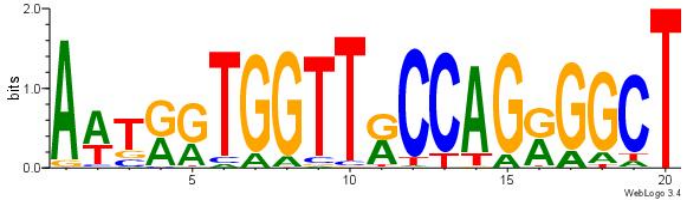

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158634

Alignment:
GAAGGCAGCTAAGGCCCGGY
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

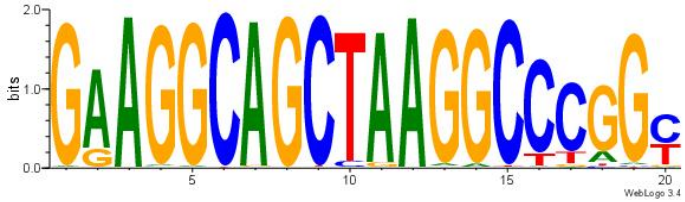

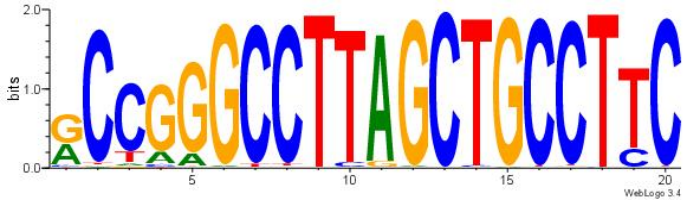

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158995

Alignment:
CTCCAGKTMCATCCATGTTG
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

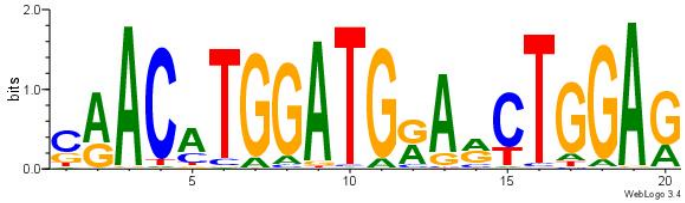

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

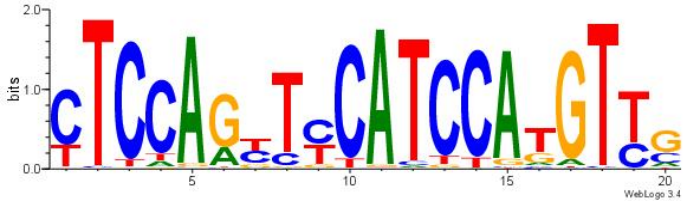

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159172

Alignment:

CGCGGCGCTTGCGGGCCAGC

ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

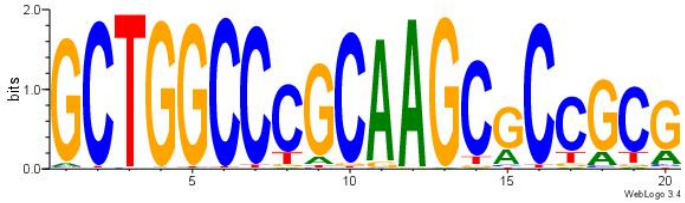

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

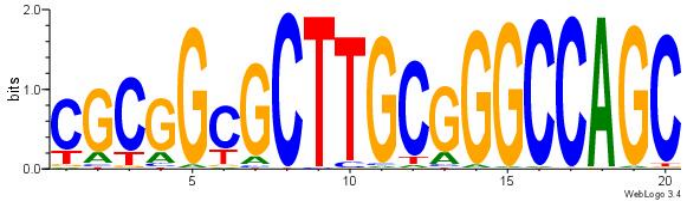

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.159899

Alignment:
GCTGTGTGACCTTGGGCAAG
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

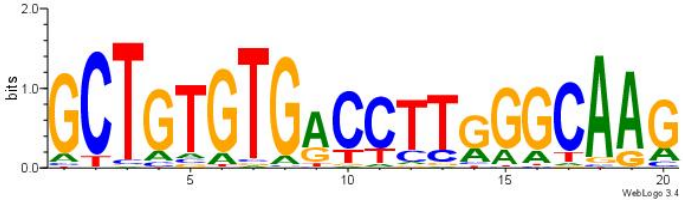

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

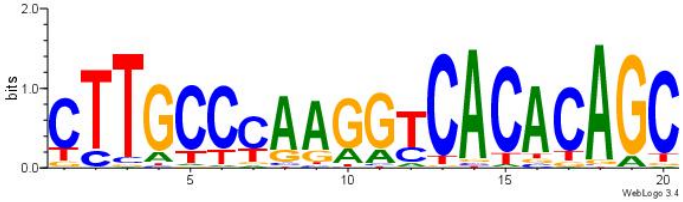

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160866

Alignment:
TTCAMTCATGATTTGGCTCT
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

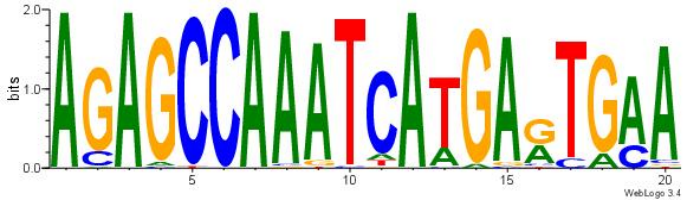

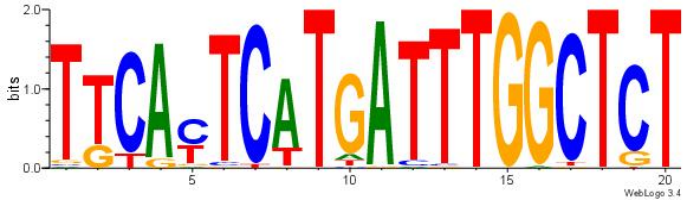

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161127

Alignment:

```
AAGGAACAAACTCCRGACAC
AAAAGTCCACAGTCCAAAGT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

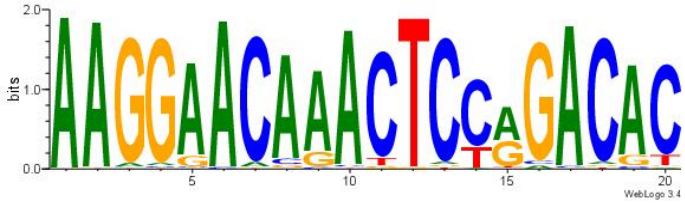

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

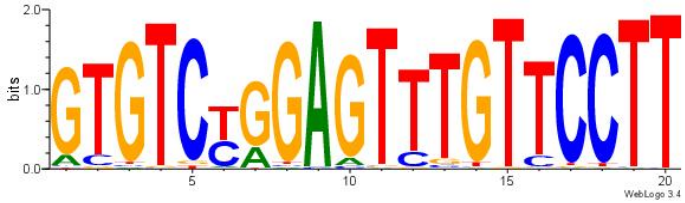

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161735

Alignment:

```
ATGGACAYTTRGGTTGHTTC
ACTTTGGACTGTGGACTTTT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

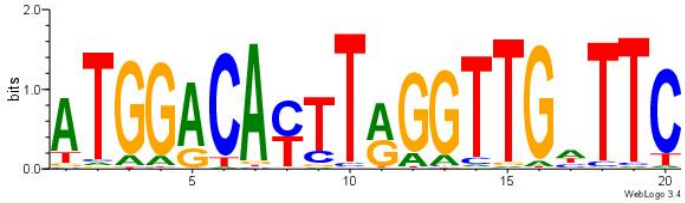

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

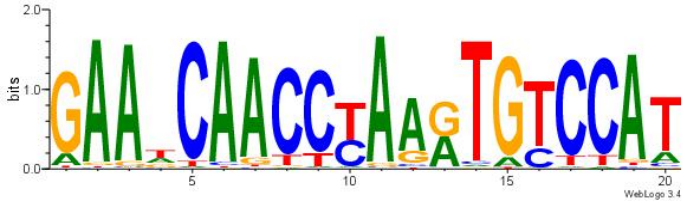

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162026

Alignment:
CTGGGTCCCCCAGCAGTGCC
AAAAGTCCACAGTCCAAAGT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

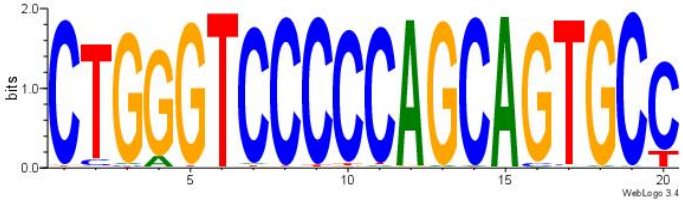

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

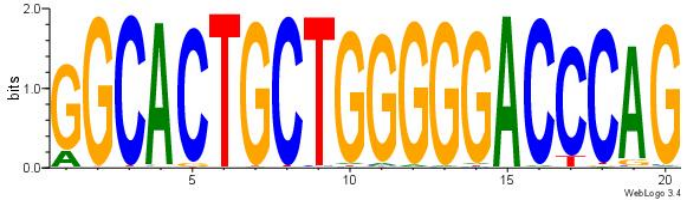

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162489

Alignment:
AGGTTTGTTACATAGGTAWA
ACTTTGGACTGTGGACTTTT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

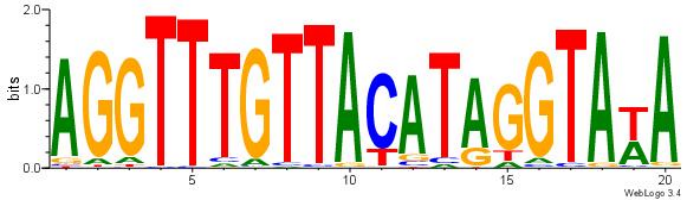

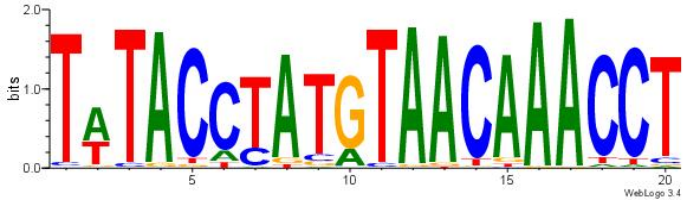

Dataset #: 1 **Motif ID: 172** **Motif name: Motif 172**

Original motif Consensus sequence: AGAAACAGAA

Reverse complement motif Consensus sequence: TTCTGTTTCT

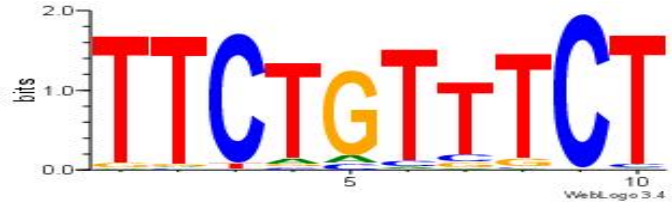

Best Matches for Motif ID 172 (Highest to Lowest)

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0394673

Alignment:

```
CAGTCTGTGTCTTTTAATT
--TTCTGTTTCT-------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

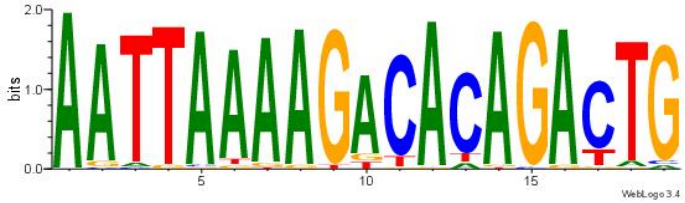

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

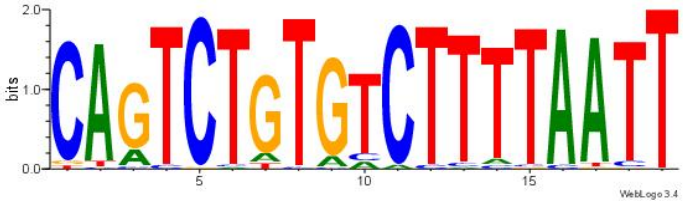

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0541669

Alignment:

```
GCCAGTCACAAAARGACAMA
---AGAAACAGAA-------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

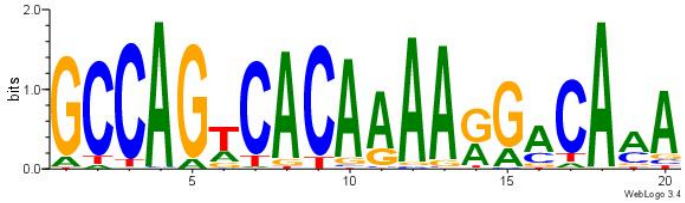

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

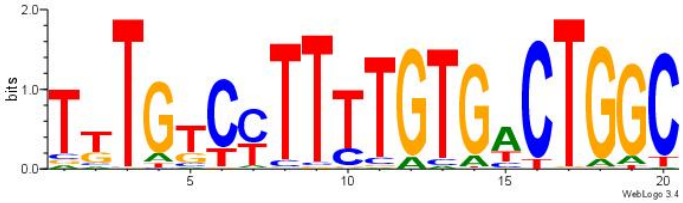

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0544219

Alignment:

```
GCACTCTGTMTCTAGCT
---TTCTGTTTCT----
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

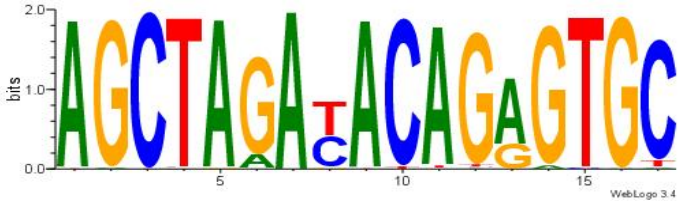

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

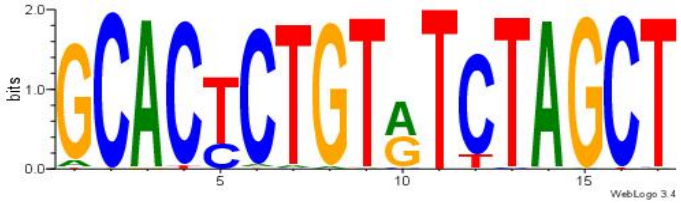

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 10
Similarity score: 0.0568571

Alignment:
AAGGAAAAGAAA
-AGAAACAGAA-

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

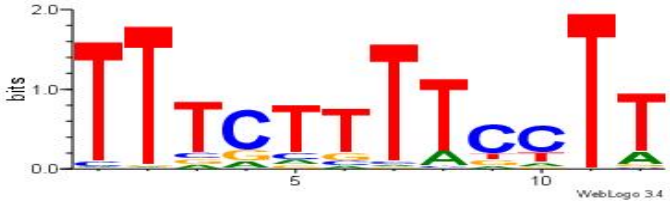

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0594764

Alignment:
TTTYTWTTTTTTYTWGAGAC
-TTCTGTTTCT---------

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

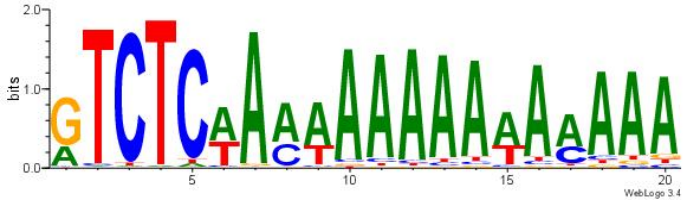

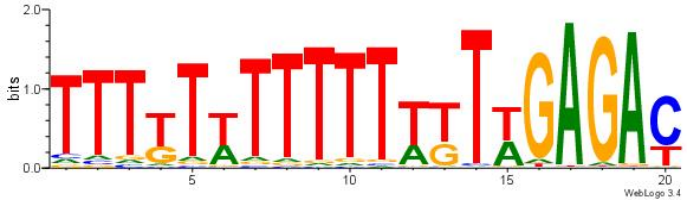

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.064397

Alignment:

```
CTCAGGAATGGAAAACC
---AGAAACAGAA----
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

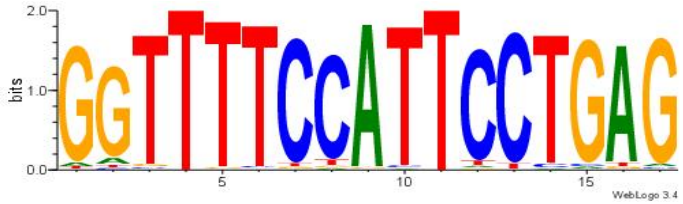

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0650845

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
---AGAAACAGAA-------
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

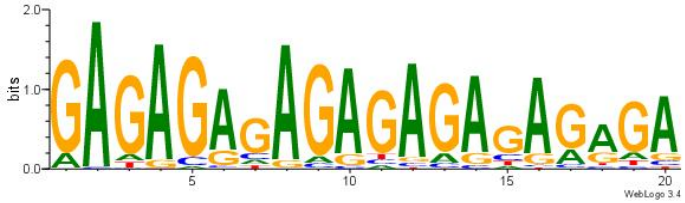

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

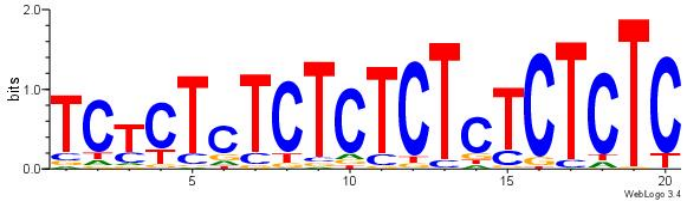

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10

Similarity score: 0.0653012

Alignment:
AAGGAACAAACTCCRGACAC
-AGAAACAGAA---------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

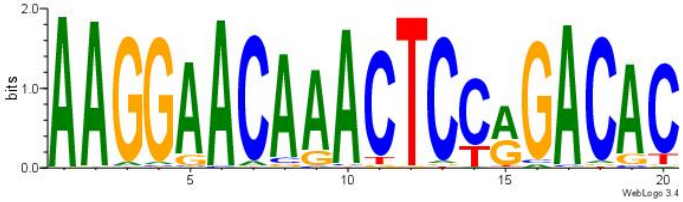

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

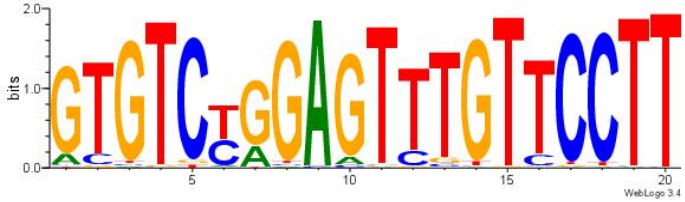

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0665133

Alignment:
CGGCGCTGMGCTCGATTTCT
----------TTCTGTTTCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

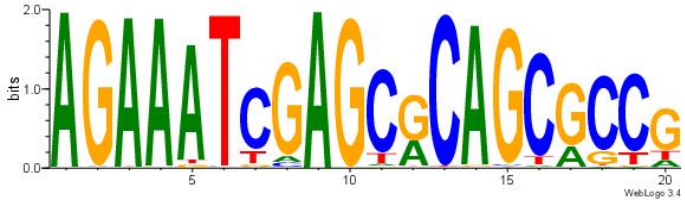

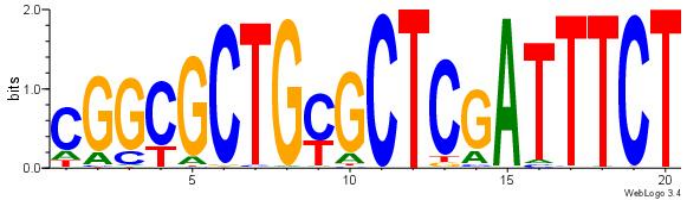

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0677802

Alignment:

```
TTTCTTTGACTRG
-TTCTGTTTCT--
```

Original motif Consensus sequence: CKAGTCAAAGAAA

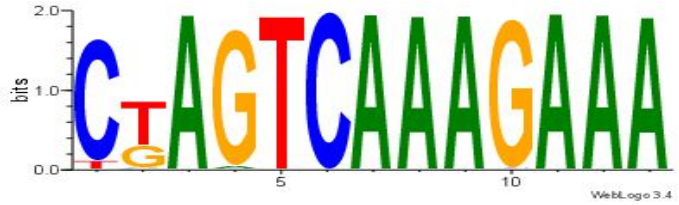

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

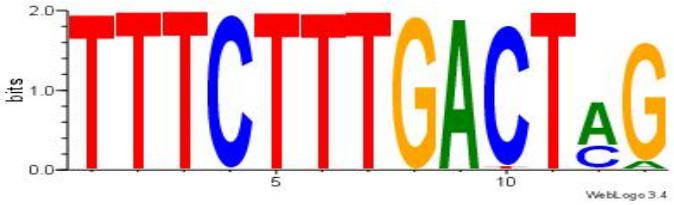

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0683983

Alignment:

```
CACCAGACTCAGGAGCCCAG
------AGAAACAGAA----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

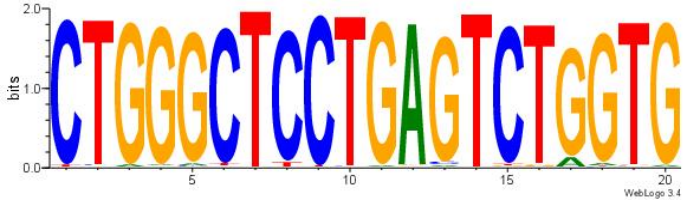

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

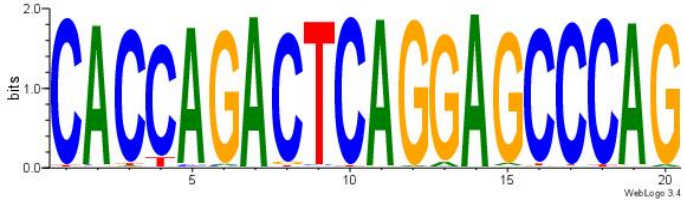

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0688793

Alignment:
MGGAAACTGAGGC
--AGAAACAGAA-

Original motif Consensus sequence: GCCTCAGTTTCCY

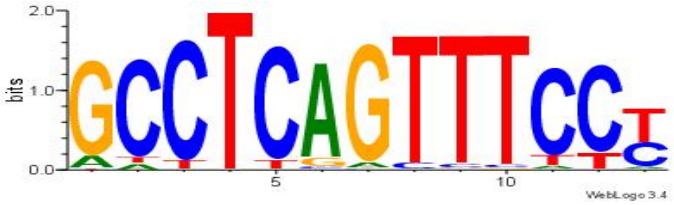

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

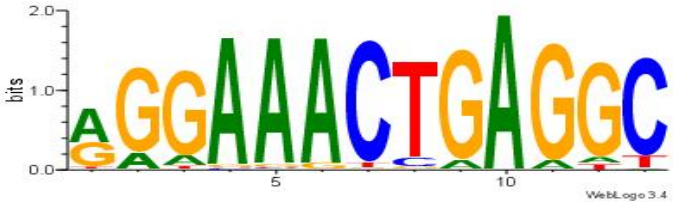

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0700234

Alignment:
GCAGCAGCAGCA
--AGAAACAGAA

Original motif Consensus sequence: GCAGCAGCAGCA

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

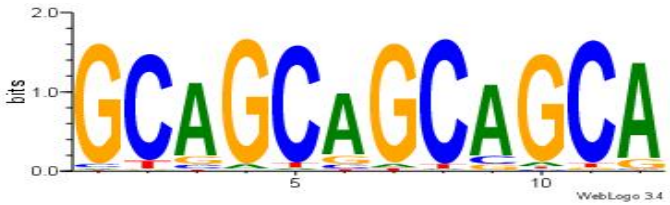

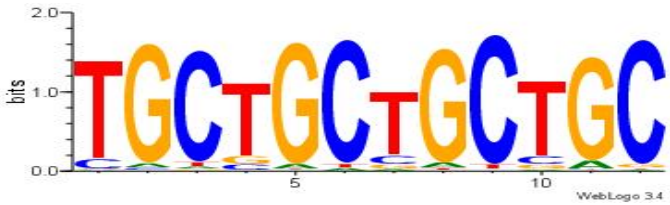

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0707516

Alignment:

```
AAAATCACAAGCATTCCTAT
AGAAACAGAA----------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

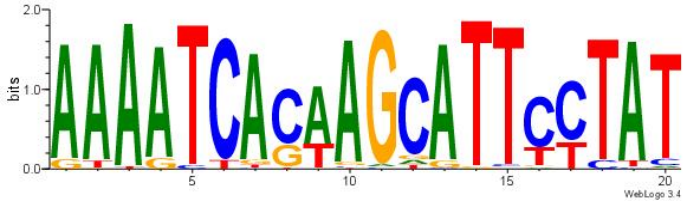

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

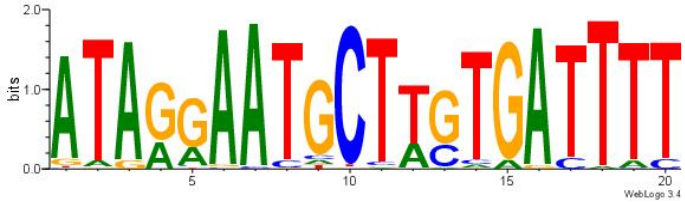

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0718671

Alignment:

```
GTAGACKGGAGCTGTTCCT
---------TTCTGTTTCT
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

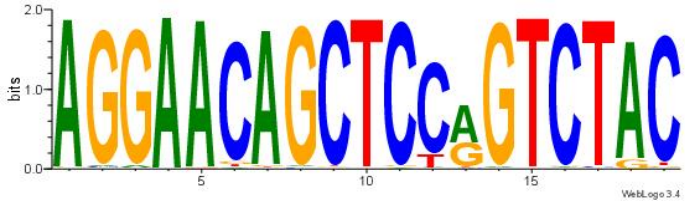

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

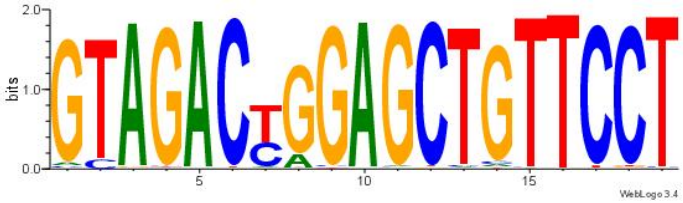

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0722368

Alignment:
TAATTTTATGTGTCAACTTG
-----TTCTGTTTCT-----

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

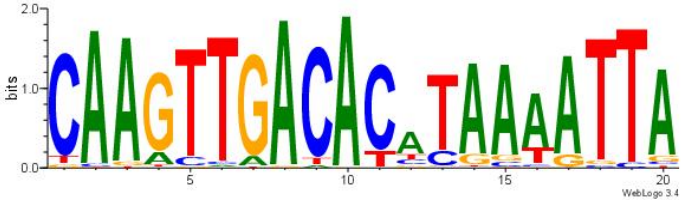

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

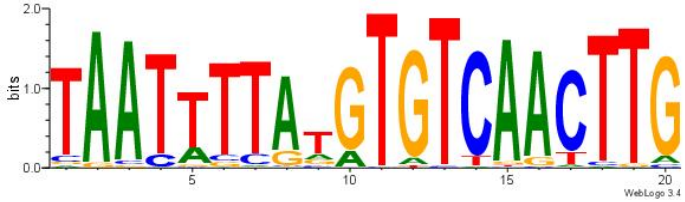

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0738883

Alignment:
ATAAAAACTTGCTGGTTTT
---------TTCTGTTTCT

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

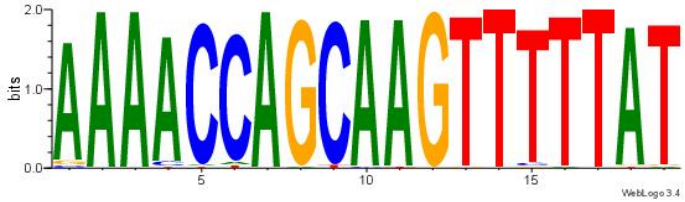

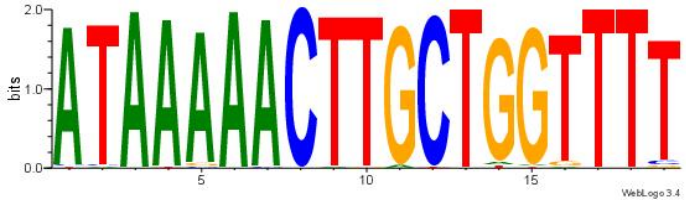

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0741615

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-------TTCTGTTTCT---
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

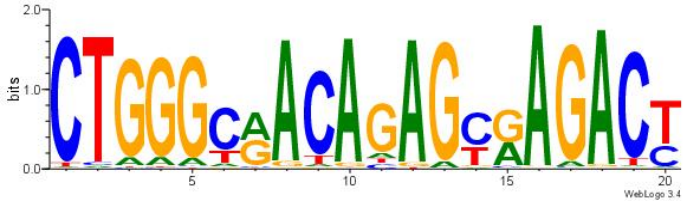

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

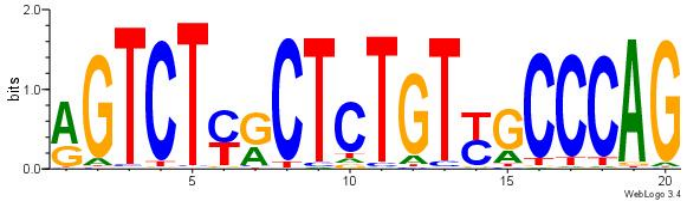

Dataset #:	1

Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0749931

Alignment:

```
WACAATCAGACCTTG
-AGAAACAGAA----
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

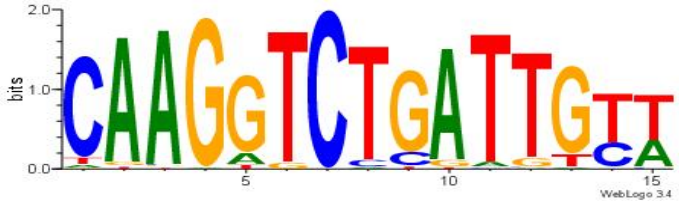

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0789147

Alignment:
AGTGAGAACATRYRRTRTTT
TTCTGTTTCT----------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

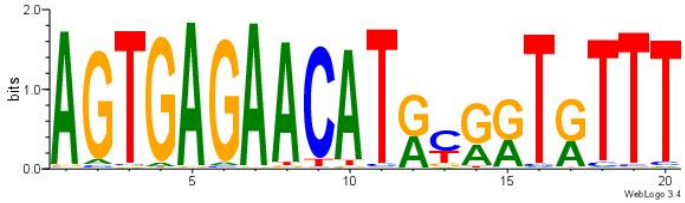

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

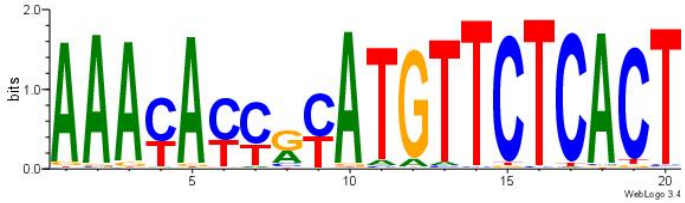

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0797401

Alignment:
TGTGTGTGTGTKTGTGTGT
---------TTCTGTTTCT

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

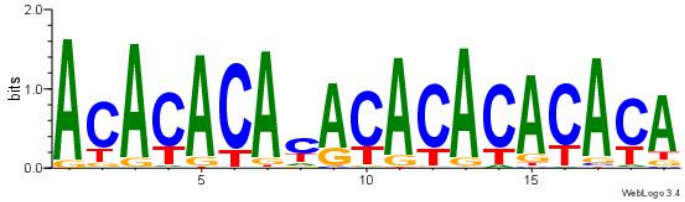

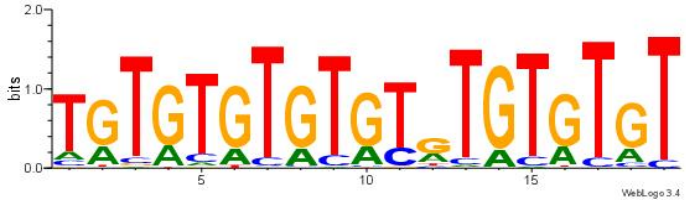

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0807093

Alignment:

```
ATGGACAYTTRGGTTGHTTC
--TTCTGTTTCT--------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

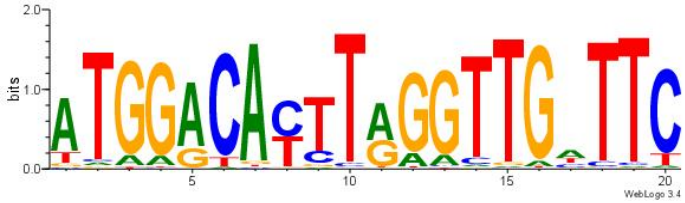

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

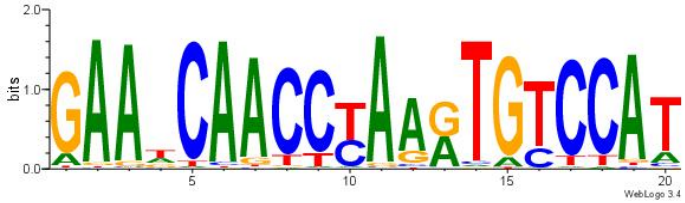

Dataset #:	1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0809472

Alignment:

```
AACAACAACAACAAMAA
------AGAAACAGAA-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

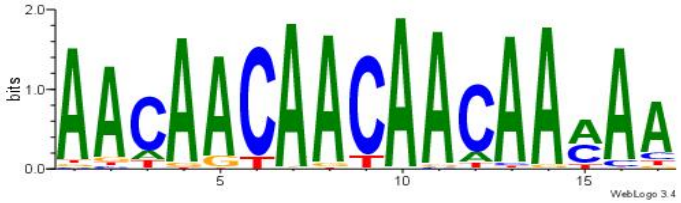

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

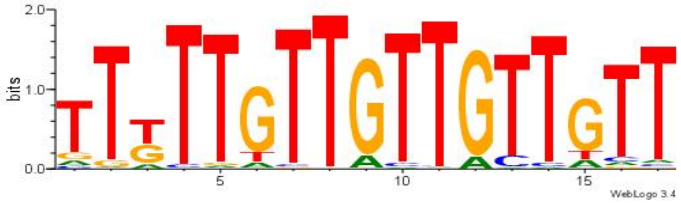

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0829298

Alignment:
TTTTTTTMTTT
-TTCTGTTTCT

Original motif Consensus sequence: AAAYAAAAAAA

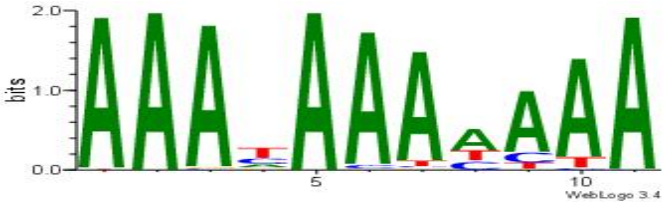

Reverse complement motif Consensus sequence: TTTTTTTMTTT

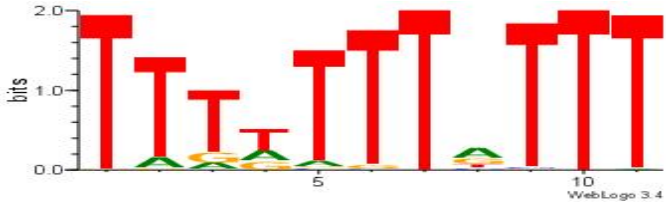

Dataset #: 1
Motif ID: 148
Motif name: Motif 148
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0841188

Alignment:
AAAGAGAGTCAGCGAAG
----AGAAACAGAA---

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

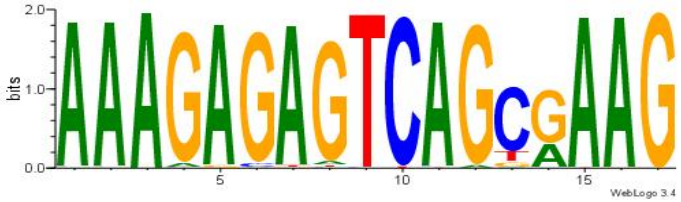

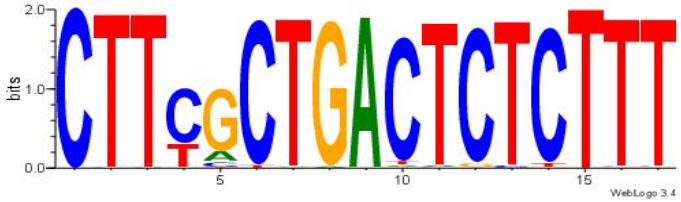

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0842875

Alignment:

```
ACATCTGYMMCC
TTCTGTTTCT--
```

Original motif Consensus sequence: ACATCTGYMMCC

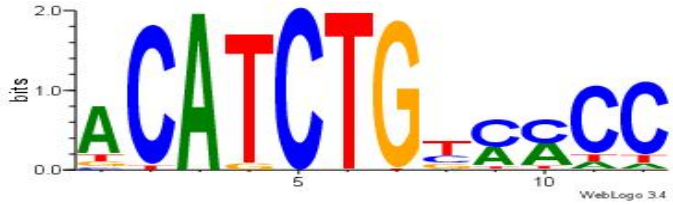

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0847461

Alignment:

```
TCCAAATGGGAGAAATTGGC
----------AGAAACAGAA
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

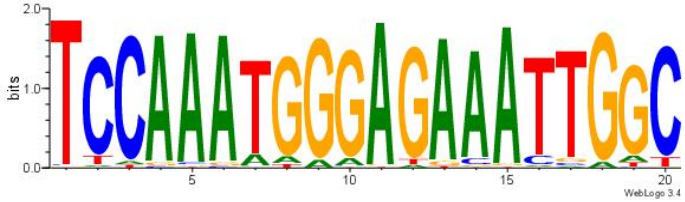

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

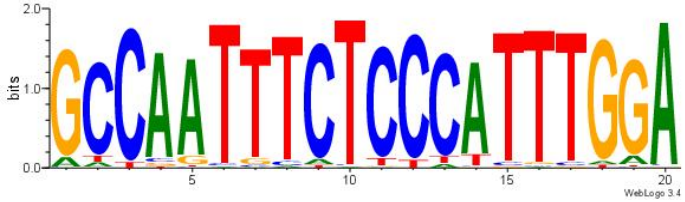

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0849123

Alignment:
TTGAGACMGKGTCT
---AGAAACAGAA-

Original motif Consensus sequence: AGACYCYGTCTCAA

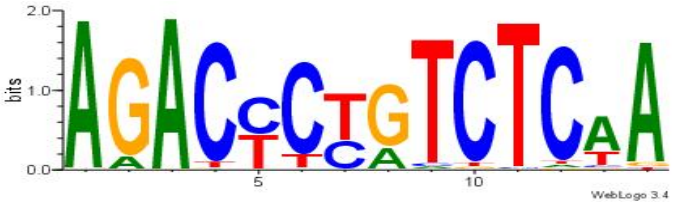

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

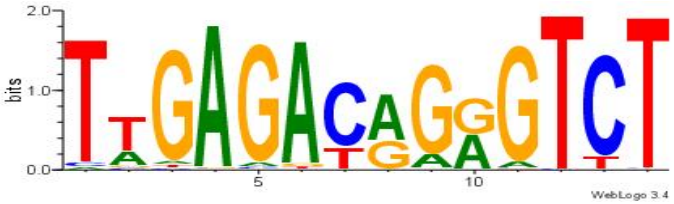

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0849626

Alignment:
GKCTGTACCCCCATTGTAT
TTCTGTTTCT---------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

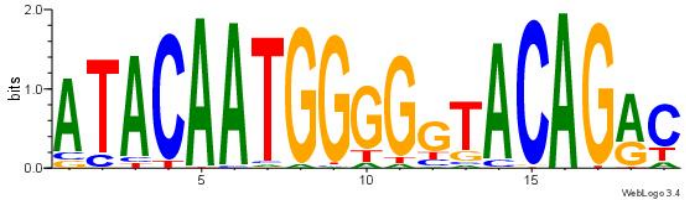

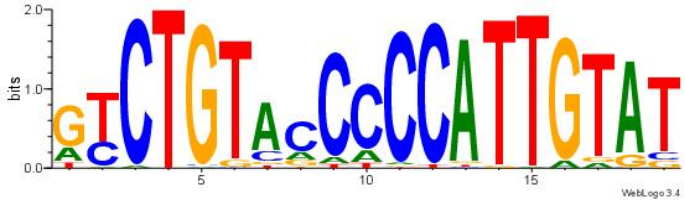

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0859691

Alignment:

```
HAGTGGKATTGCTGGATCAT
---------TTCTGTTTCT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

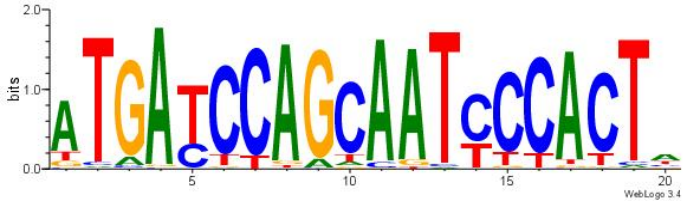

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

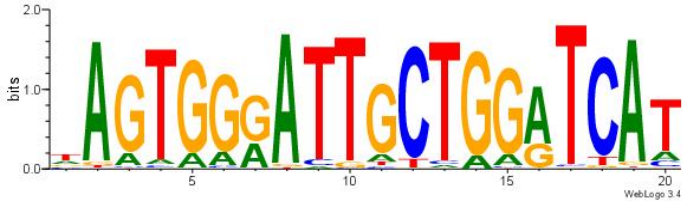

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0860684

Alignment:

```
TGGAGAACCTTTATGTCTAG
--------TTCTGTTTCT--
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

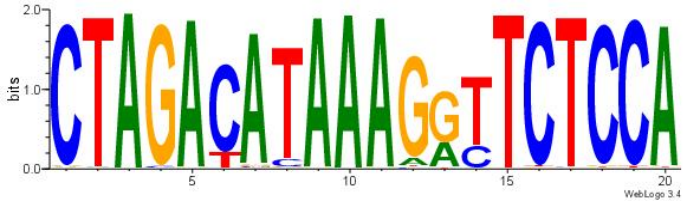

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

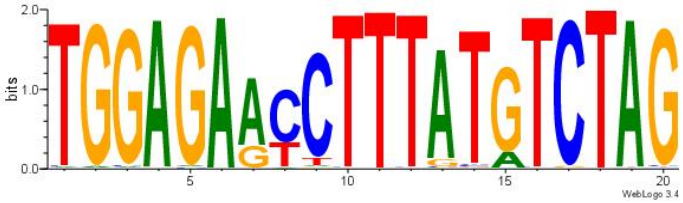

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0869128

Alignment:
ACAGAGTGAGACTCT
--AGAAACAGAA---

Original motif Consensus sequence: AGAGTCTCACTCTGT

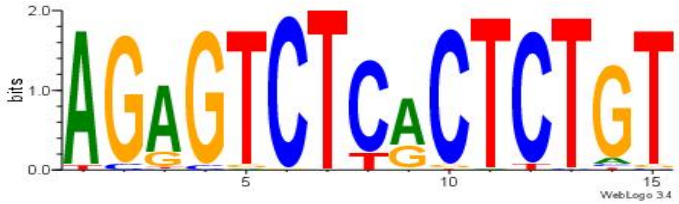

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

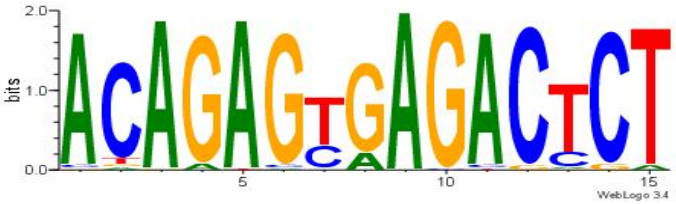

Dataset #: 1
Motif ID: 187
Motif name: Motif 187
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0871835

Alignment:
TCTCTGAGCCTCAGTT
-TTCTGTTTCT-----

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

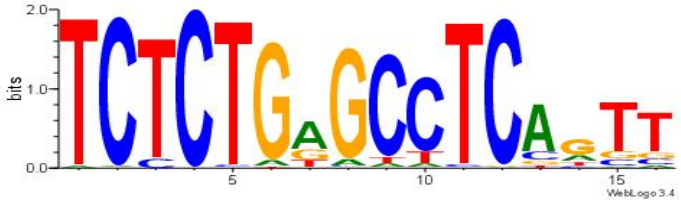

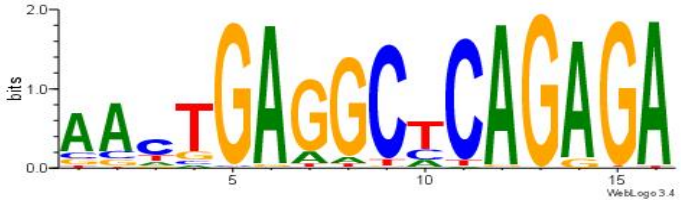

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0878225

Alignment:

```
KACATTGATTTTGTATC
----TTCTGTTTCT---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

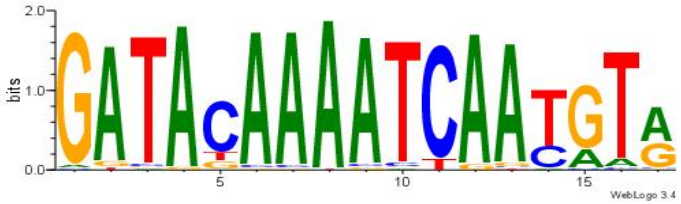

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

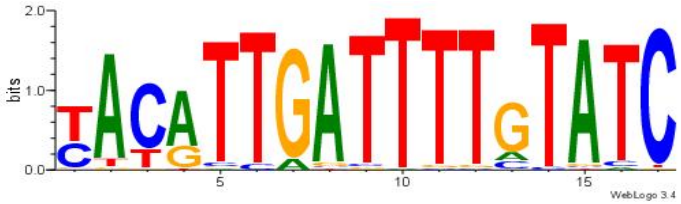

Dataset #: 1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0886555

Alignment:

```
TTGGAGGTTCTAGCAGGG
-TTCTGTTTCT-------
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

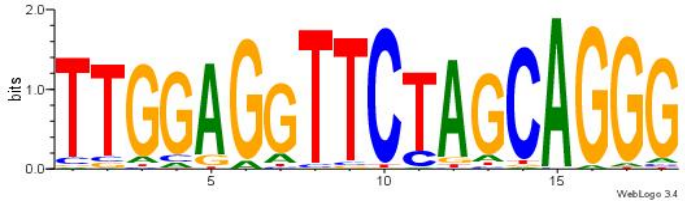

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.0888678

Alignment:
CAAAGGCATAAGAATGAT
-AGAAACAGAA-------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

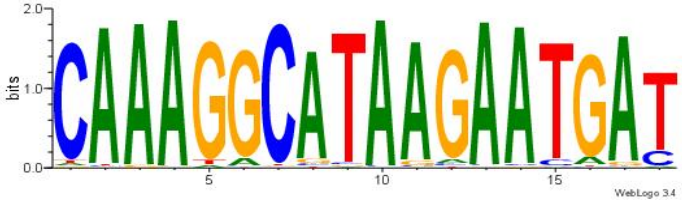

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

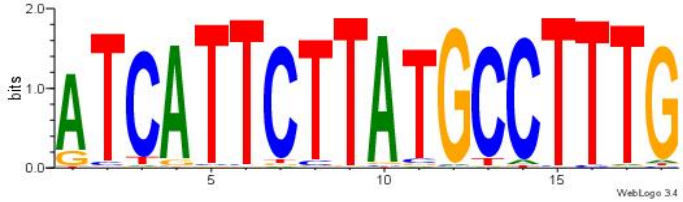

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0888717

Alignment:
GTGTCCCCTTCCTCCC
---TTCTGTTTCT---

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

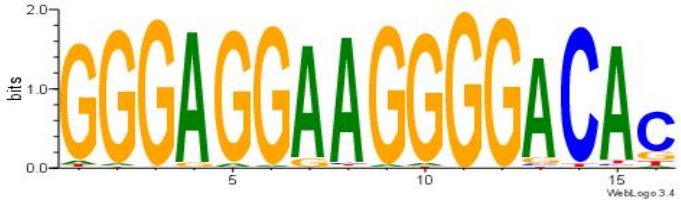

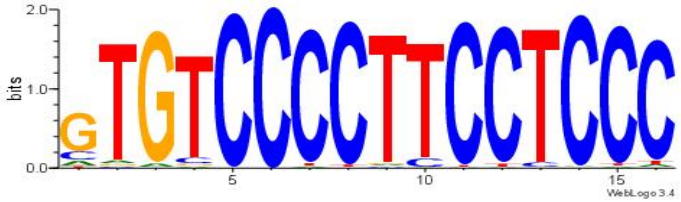

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0890612

Alignment:

```
MGCTGAGGCAGGAG
---AGAAACAGAA-
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

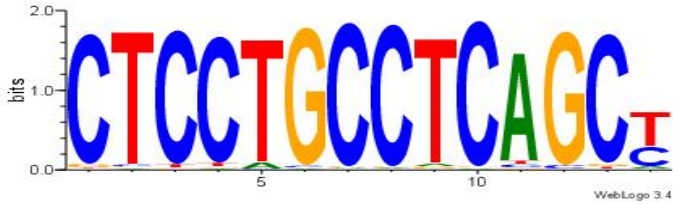

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

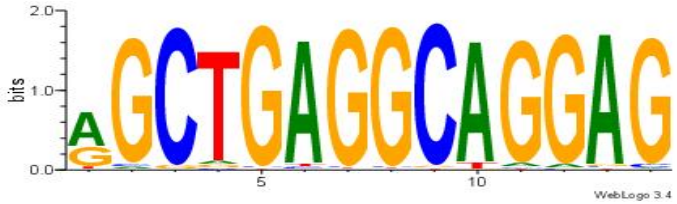

Dataset #:	1
Motif ID:	176

Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0892237

Alignment:

```
AACAACASACACTGGGGCCT
AGAAACAGAA----------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

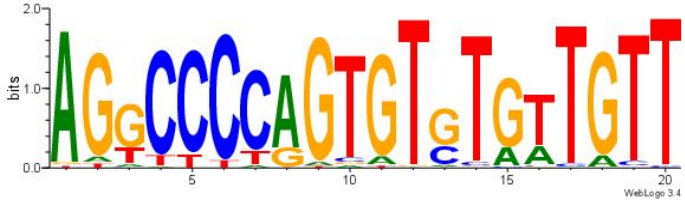

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

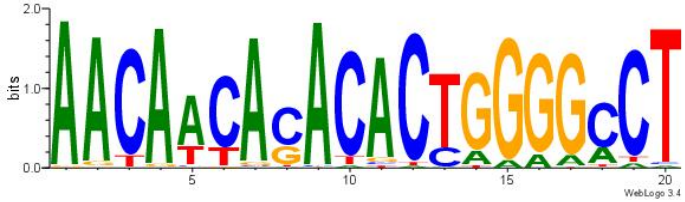

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0901555

Alignment:
TAMGACCTCAGGTCCTCAG
------TTCTGTTTCT---

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

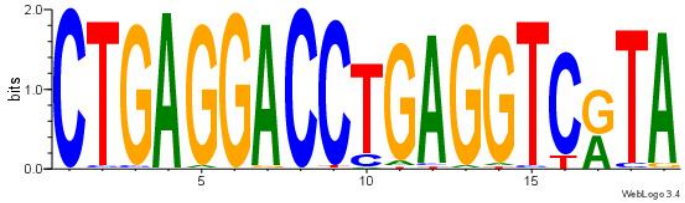

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

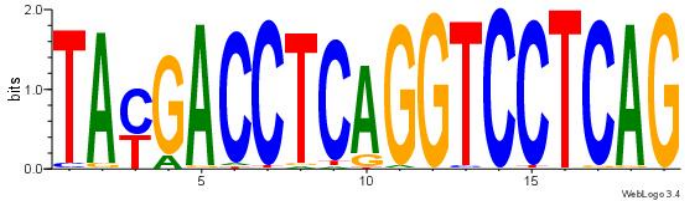

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0903376

Alignment:
AGCAGCTGTAAATA
AGAAACAGAA----

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

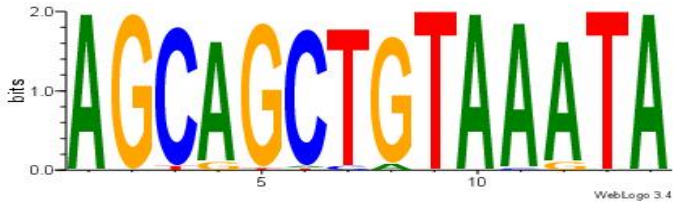

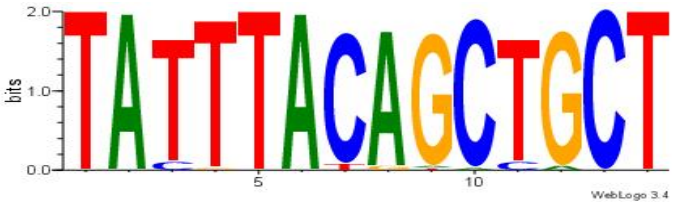

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0903567

Alignment:

```
CTCTTGTTGCCCAG
---TTCTGTTTCT-
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

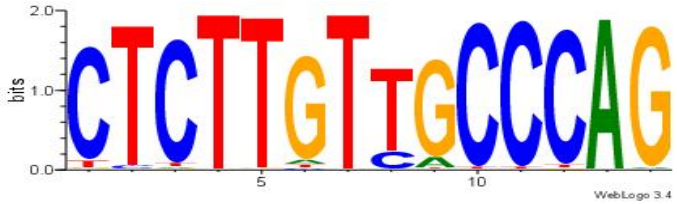

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

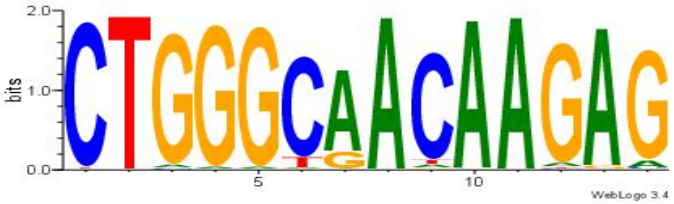

Dataset #:	1
Motif ID:	336

Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0911691

Alignment:

```
ATGTAACCAAAYACCACCTG
-AGAAACAGAA---------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

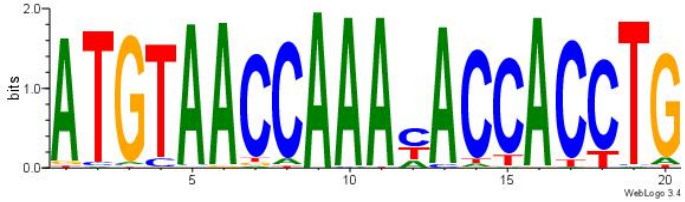

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

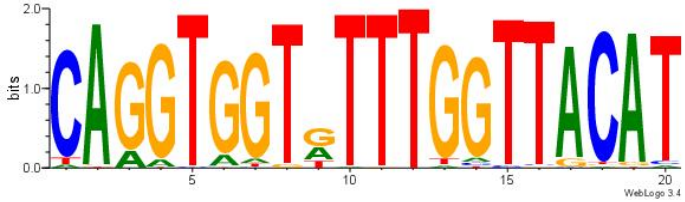

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0913714

Alignment:
GAAATTGACTTCCTCCT
----TTCTGTTTCT---

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

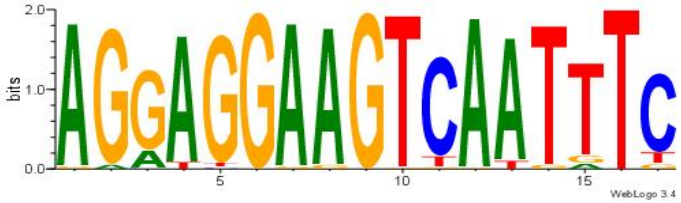

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

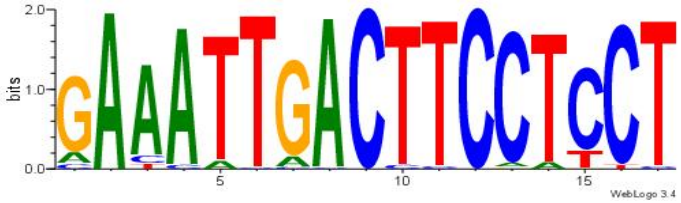

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0918621

Alignment:
ATATTGATGATCCTGACC
----TTCTGTTTCT----

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

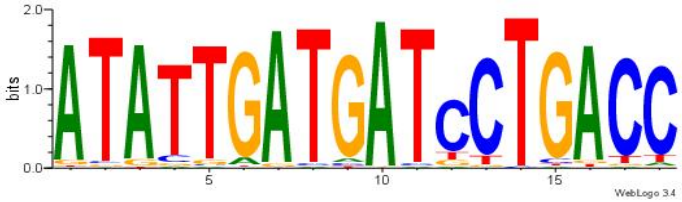

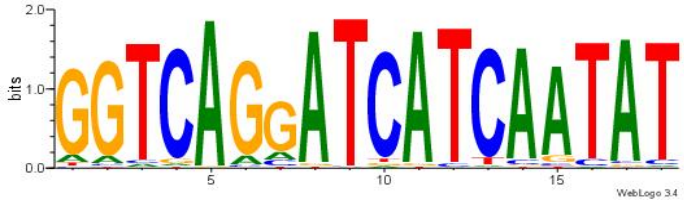

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.091987

Alignment:

```
CATTAGATTCTCATAGGA
-------TTCTGTTTCT-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

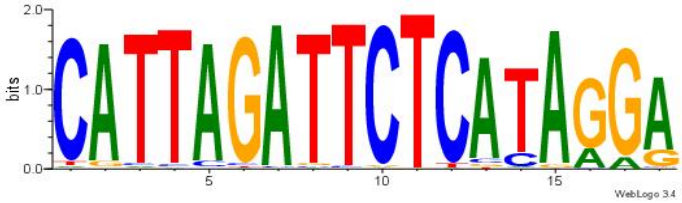

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

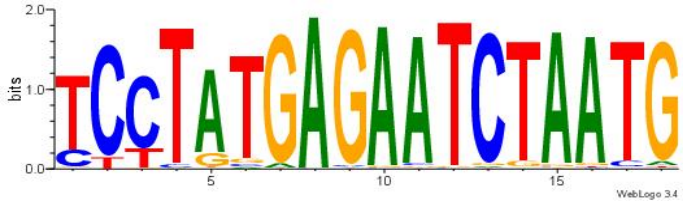

Dataset #: 1

Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0920018

Alignment:

```
CAGTGGTTCTCAA
TTCTGTTTCT---
```

Original motif Consensus sequence: CAGTGGTTCTCAA

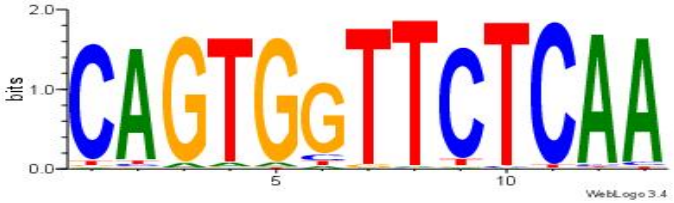

Reverse complement motif Consensus sequence: TTGAGAACCACTG

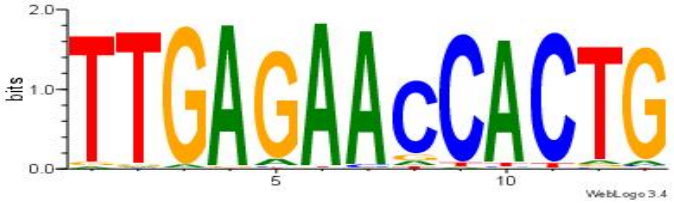

Dataset #:	1
Motif ID:	204
Motif name:	Motif 204
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0932139

Alignment:
GGAGTCTMKCTCT
---TTCTGTTTCT

Original motif Consensus sequence: AGAGYRAGACTCC

Reverse complement motif Consensus sequence: GGAGTCTMKCTCT

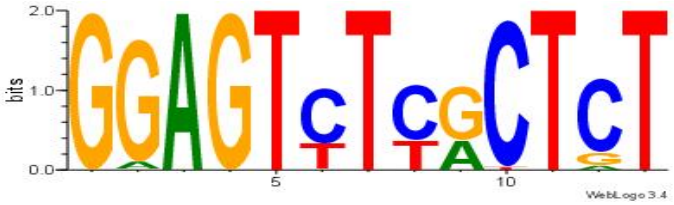

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.093409

Alignment:
GTTAACTGTAAAACAGCCT
--------AGAAACAGAA-

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

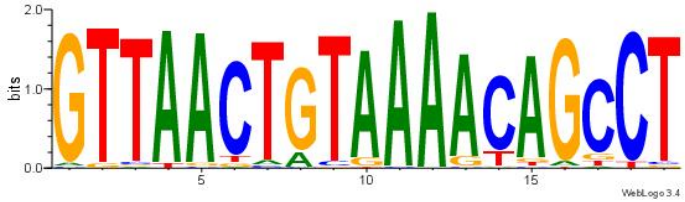

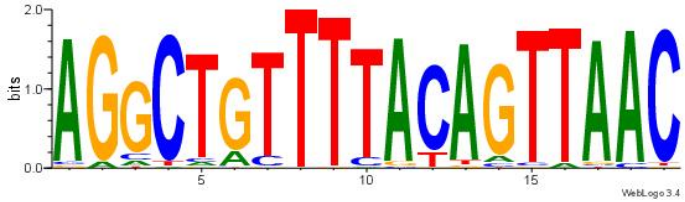

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.093512

Alignment:

```
CAATGATAGACTGGAT
-----AGAAACAGAA-
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

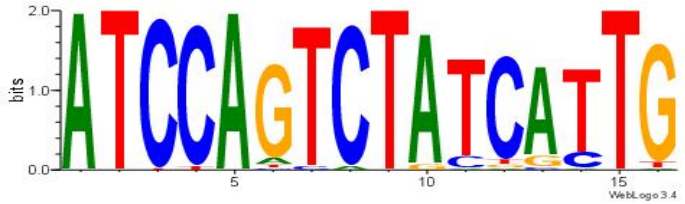

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #: 1 Motif ID: 173 Motif name: Motif 173

Original motif Consensus sequence: AAGGAAACAA

Reverse complement motif Consensus sequence: TTGTTTCCTT

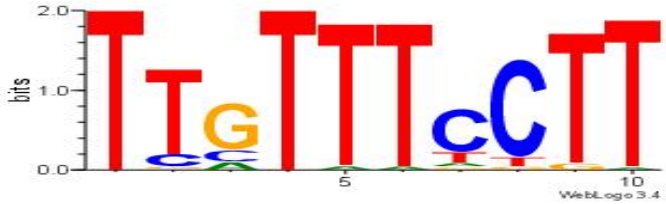

Best Matches for Motif ID 173 (Highest to Lowest)

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.043227

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
----------TTGTTTCCTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

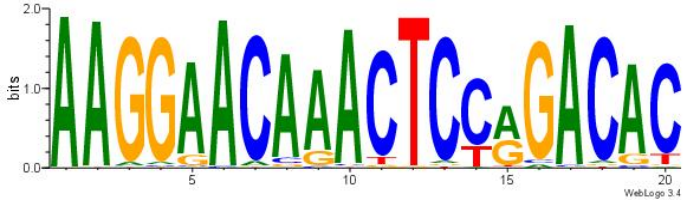

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

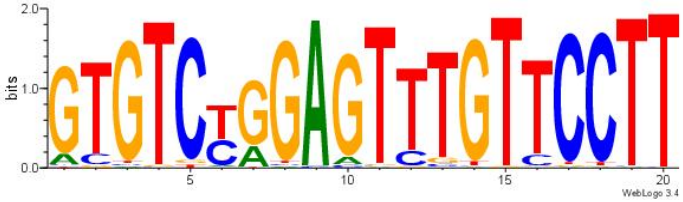

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0491703

Alignment:

```
TTTTTTTMTTT
-TTGTTTCCTT
```

Original motif Consensus sequence: AAAYAAAAAAA

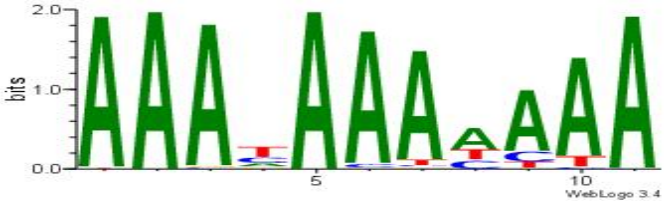

Reverse complement motif Consensus sequence: TTTTTTTMTTT

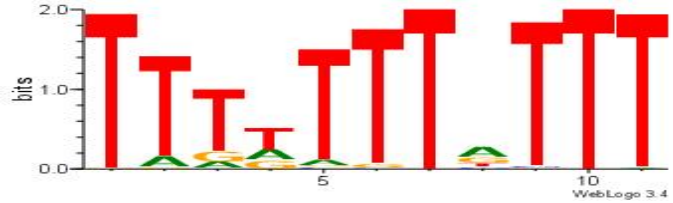

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0529937

Alignment:
TTTCTTTTCCTT
--TTGTTTCCTT

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

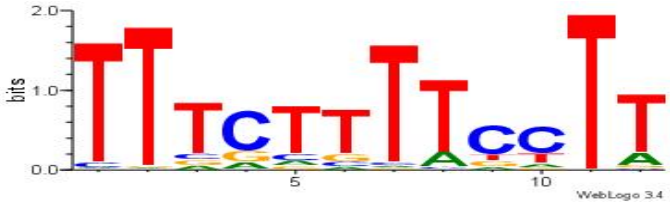

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 10
Similarity score: 0.0605263

Alignment:
GTCTCWAMAAAAAAWAMAAA
---------AAGGAAACAA-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

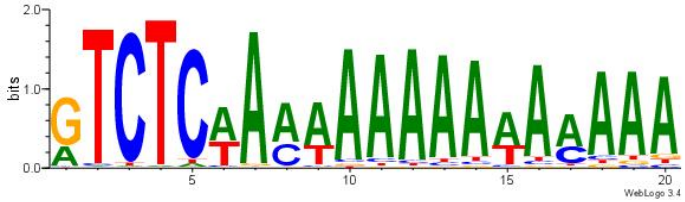

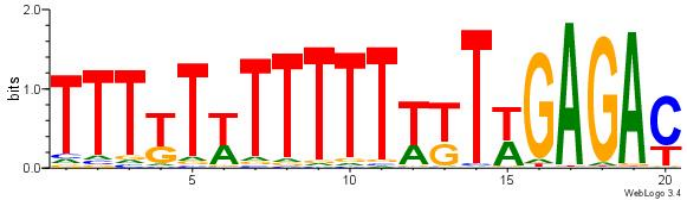

Dataset #:	1
Motif ID:	158
Motif name:	Motif 158
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0611844

Alignment:

```
TAGTTTGCTGA
-TTGTTTCCTT
```

Original motif Consensus sequence: TAGTTTGCTGA

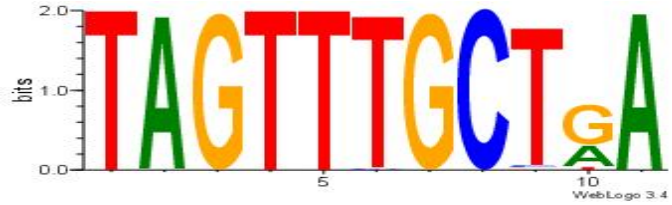

Reverse complement motif Consensus sequence: TCAGCAAACTA

Dataset #:	1
Motif ID:	79

Motif name:	Motif 79
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0626428

Alignment:

```
ATTCATTCATT
-TTGTTTCCTT
```

Original motif Consensus sequence: AATGAATGAAT

Reverse complement motif Consensus sequence: ATTCATTCATT

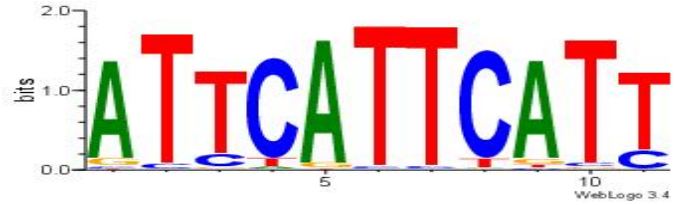

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0629372

Alignment:
TGATACCCAGGCAAACAG
--------AAGGAAACAA

Original motif Consensus sequence: TGATACCCAGGCAAACAG

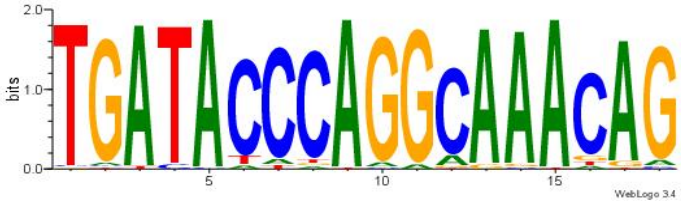

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

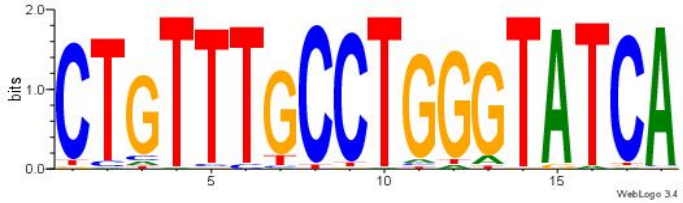

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0644187

Alignment:
GCAAAKGACATGATYTCATT
---AAGGAAACAA-------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

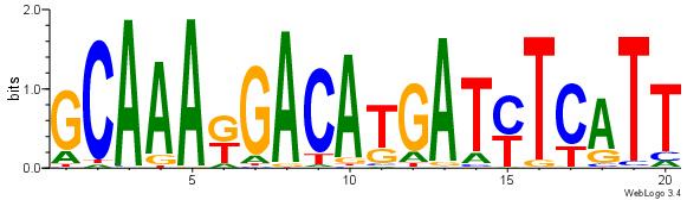

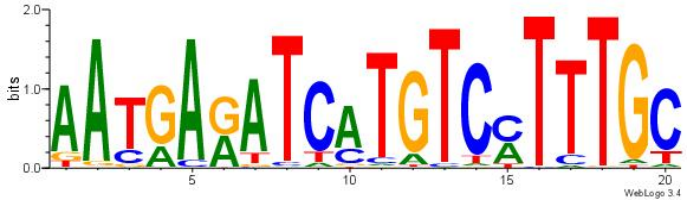

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.06505

Alignment:

```
CAGGTGGTKTTTGGTTACAT
----------TTGTTTCCTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

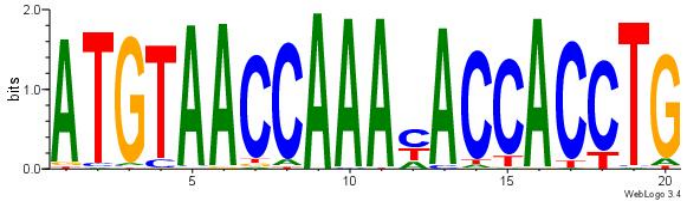

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

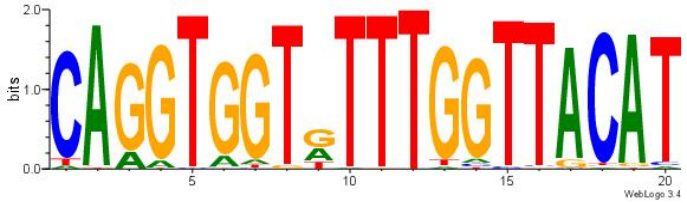

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0707168

Alignment:

```
TWTACCTATGTAACAAACCT
----AAGGAAACAA------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

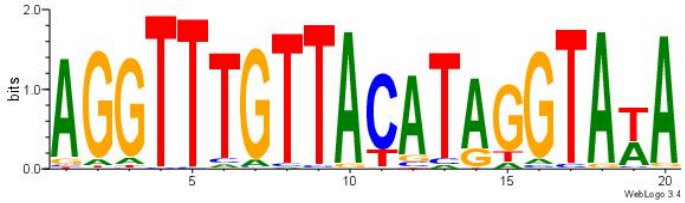

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

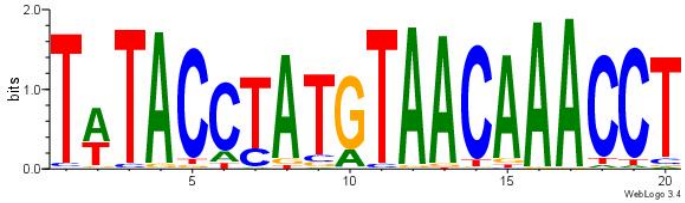

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0726695

Alignment:
TTATTTCACTT
-TTGTTTCCTT

Original motif Consensus sequence: AAGTGAAATAA

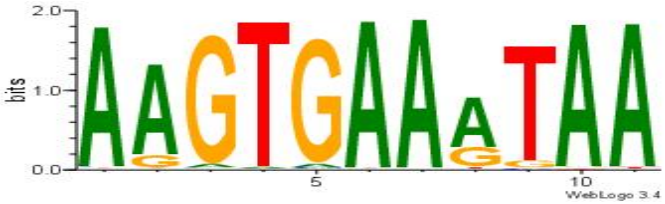

Reverse complement motif Consensus sequence: TTATTTCACTT

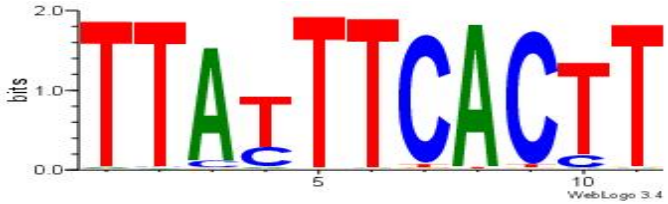

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0730436

Alignment:
GACATGGAGTCAAAGG
---AAGGAAACAA---

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

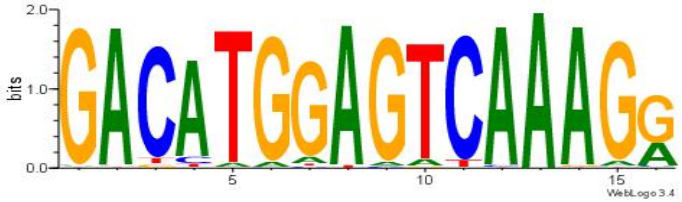

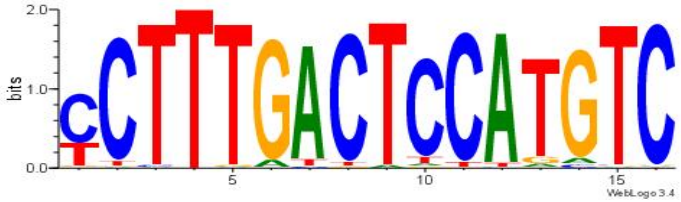

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0749116

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
--------TTGTTTCCTT--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

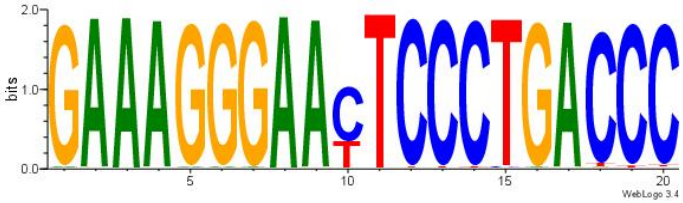

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

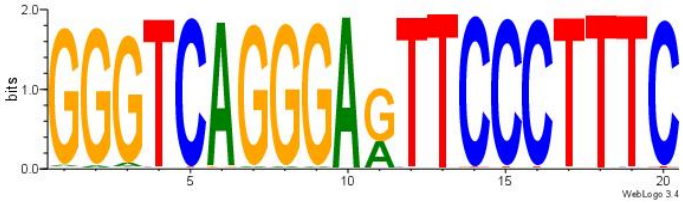

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0759043

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----TTGTTTCCTT-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

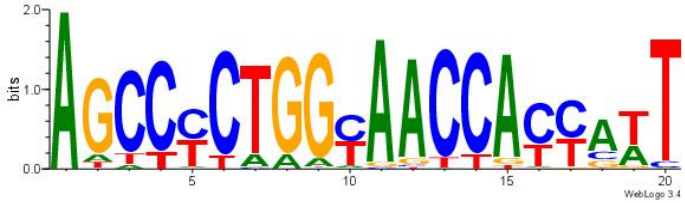

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

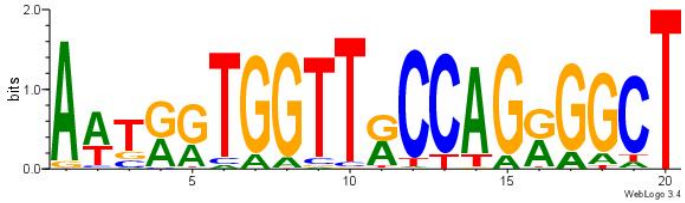

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0760708

Alignment:
AATTAAAAGACACAGACTG
-----AAGGAAACAA----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

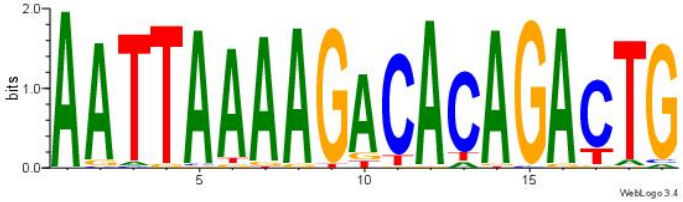

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

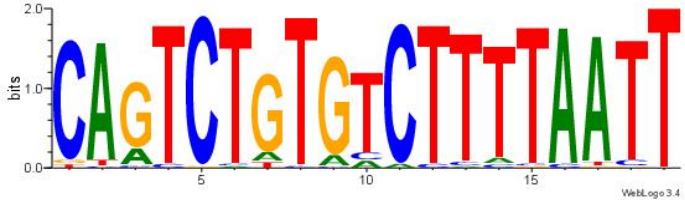

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0765151

Alignment:
AGCAGYTTGGAAACACT
------AAGGAAACAA-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

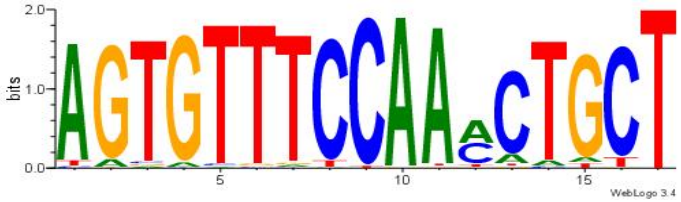

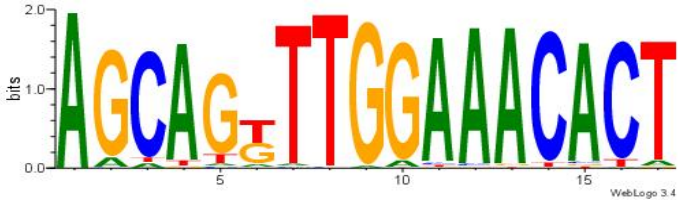

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.078099

Alignment:

```
TAATGGGTACAAA
--AAGGAAACAA-
```

Original motif Consensus sequence: TAATGGGTACAAA

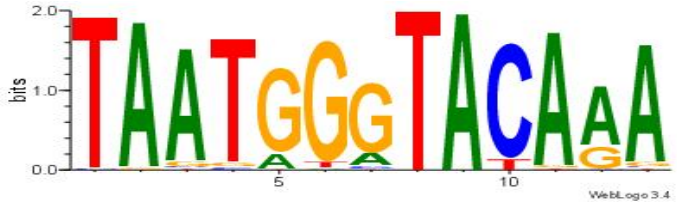

Reverse complement motif Consensus sequence: TTTGTACCCATTA

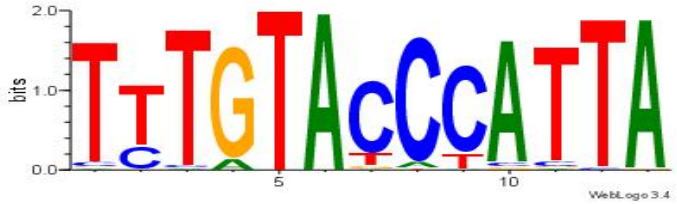

Dataset #:	1
Motif ID:	135

Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0788306

Alignment:

```
CTCTTGTTGCCCAG
-TTGTTTCCTT---
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

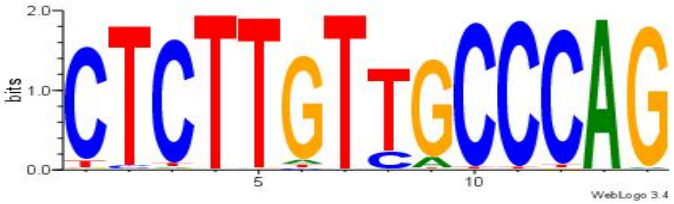

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

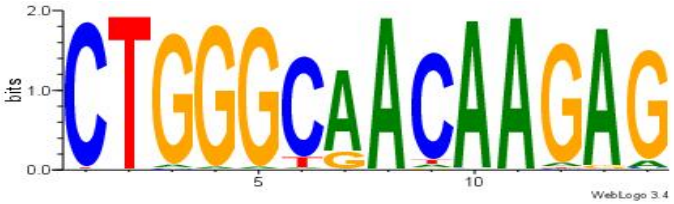

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0792853

Alignment:
GTGTCCCCTTCCTCCC
TTGTTTCCTT------

Original motif Consensus sequence: GGGAGGAAGGGGACAC

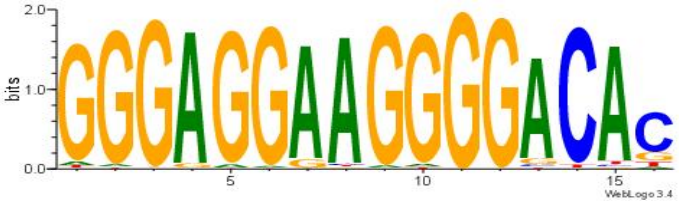

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

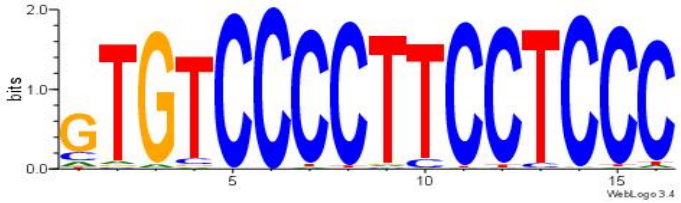

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0796881

Alignment:
TTTCTTTGACTRG
-TTGTTTCCTT--

Original motif Consensus sequence: CKAGTCAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

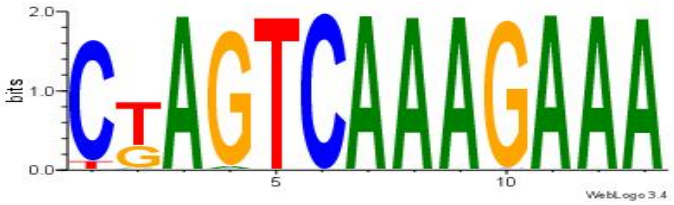

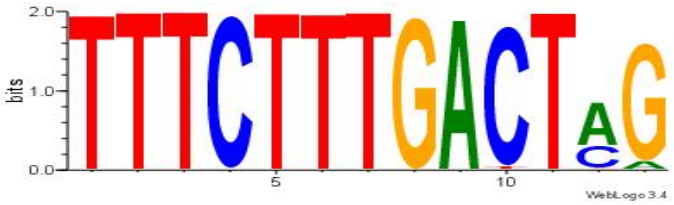

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0800944

Alignment:
GAAHCAACCKAAKTGTCCAT
---------AAGGAAACAA-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

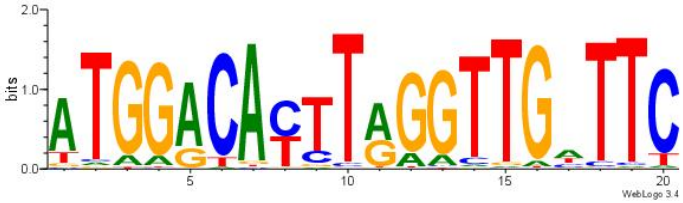

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

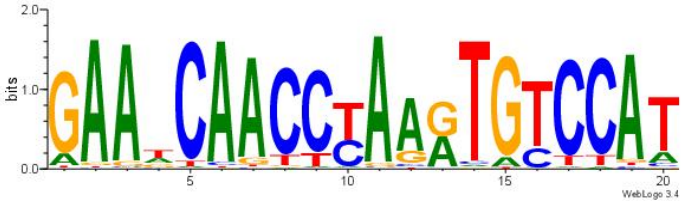

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0808893

Alignment:

```
AACAACAACAACAAMAA
-AAGGAAACAA------
```

Original motif Consensus sequence: AACAACAACAACAAMAA

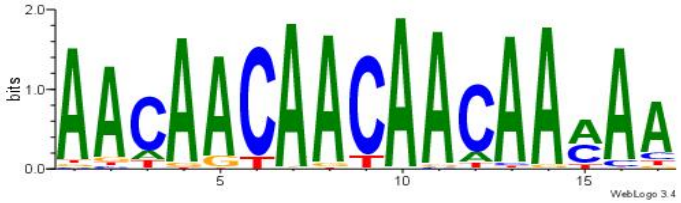

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

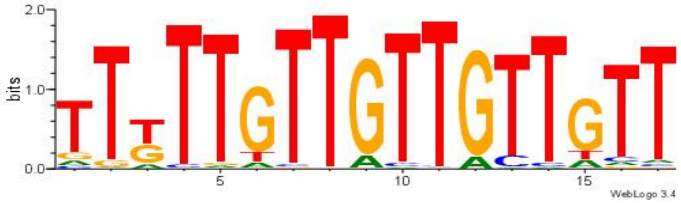

Dataset #:	1
Motif ID:	281
Motif name:	Motif 281
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0811212

Alignment:
ATGATTCCATTT
TTGTTTCCTT--

Original motif Consensus sequence: AAATGGAATCAT

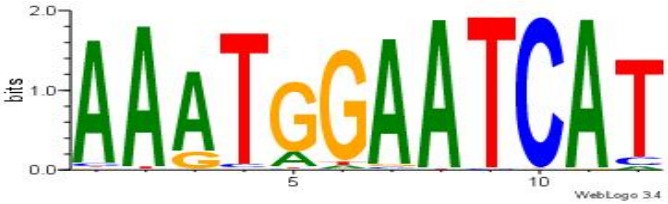

Reverse complement motif Consensus sequence: ATGATTCCATTT

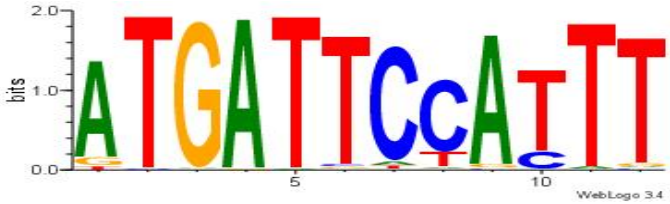

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 10
Similarity score: 0.0812838

Alignment:
TAAAAGACTACAWATTGGGT
---AAGGAAACAA-------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

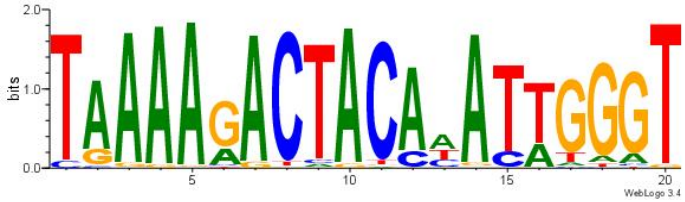

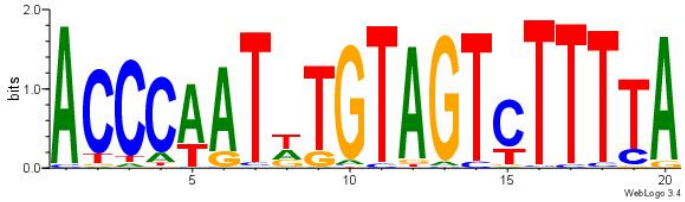

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0815031

Alignment:

```
GGTTTTCCATTCCTGAG
TTGTTTCCTT-------
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

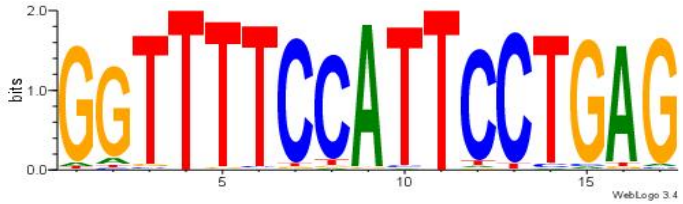

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0816438

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-------TTGTTTCCTT---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

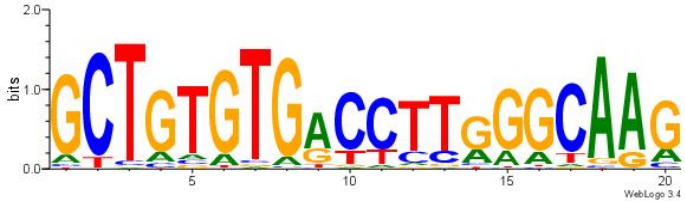

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

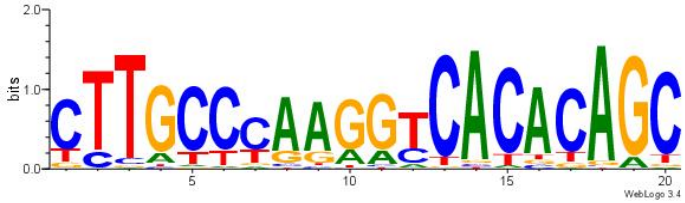

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0816763

Alignment:
KCCGGGCCTTAGCTGCCTTC
---------TTGTTTCCTT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

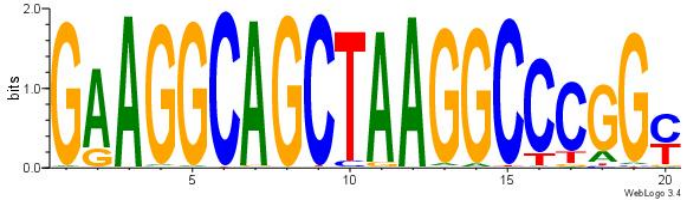

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

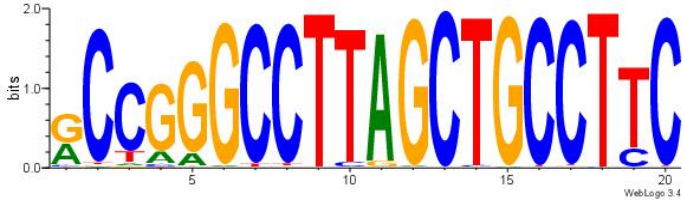

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0824829

Alignment:
TGTATTAGTCMMTT
----TTGTTTCCTT

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

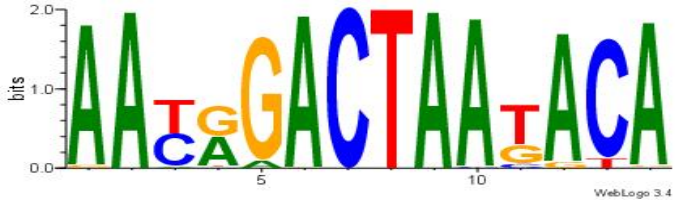

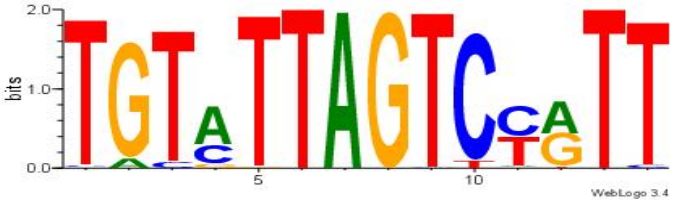

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0833235

Alignment:

```
TCCAAATGGGAGAAATTGGC
----AAGGAAACAA------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

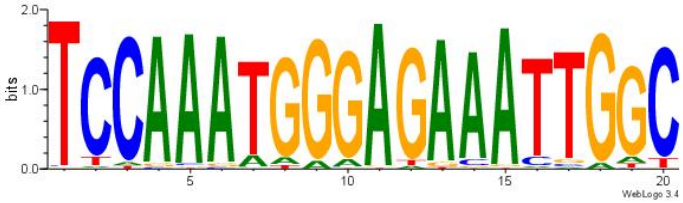

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

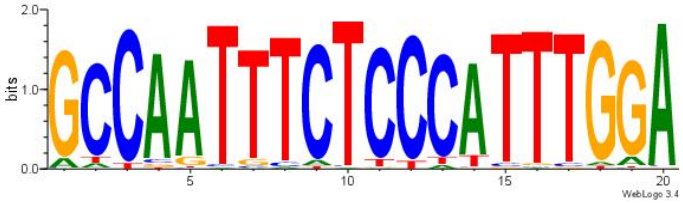

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0837747

Alignment:

```
TAATTTTATGTGTCAACTTG
---------TTGTTTCCTT-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

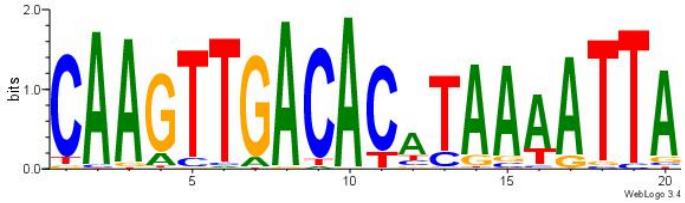

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

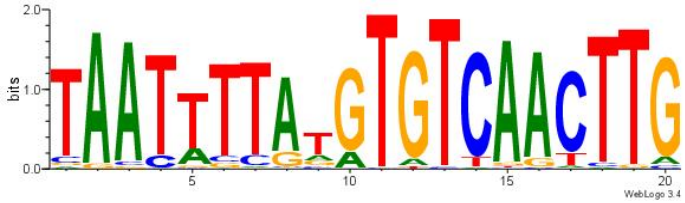

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0842639

Alignment:
GATACAAAATCAATGTR
---AAGGAAACAA----

Original motif Consensus sequence: GATACAAAATCAATGTR

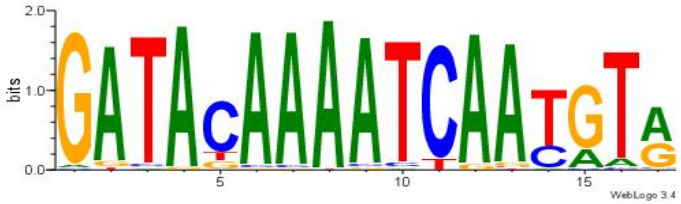

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

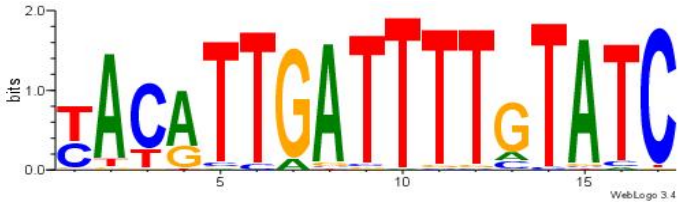

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 10
Similarity score: 0.0847924

Alignment:
CAGCTACTCKTATACCCTTG
---------TTGTTTCCTT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

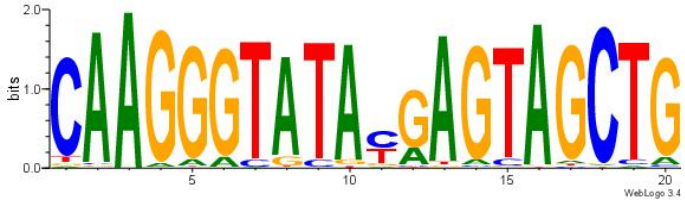

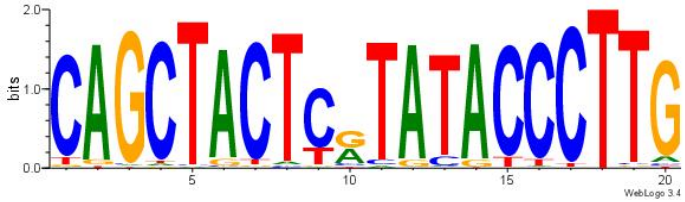

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0850822

Alignment:

```
AACAACASACACTGGGGCCT
AAGGAAACAA----------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

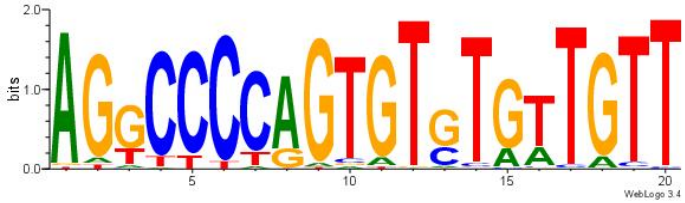

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

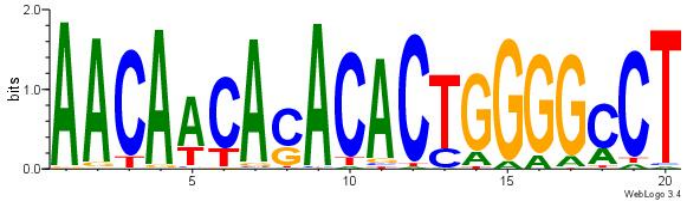

Dataset #: 1

Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0858171

Alignment:

```
CATAGGAGATGAC
--AAGGAAACAA-
```

Original motif Consensus sequence: CATAGGAGATGAC

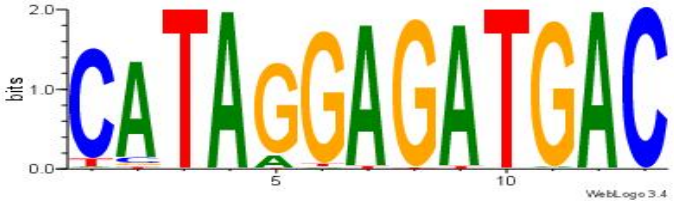

Reverse complement motif Consensus sequence: GTCATCTCCTATG

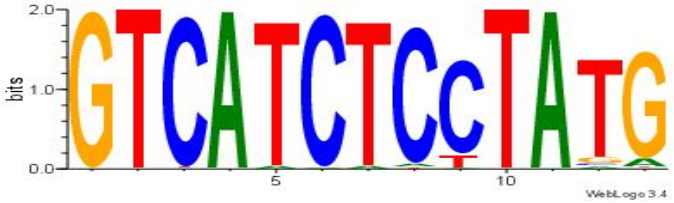

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0859283

Alignment:
MGAAGGGACTTGCCTTGT
------TTGTTTCCTT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

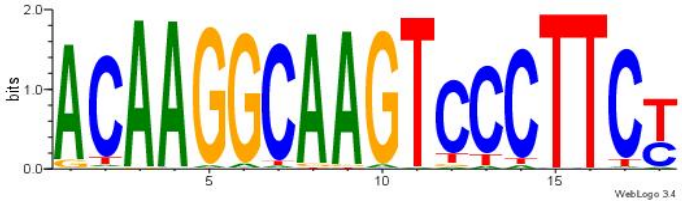

Reverse complement motif Consensus sequence:
MGAAGGGACTTGCCTTGT

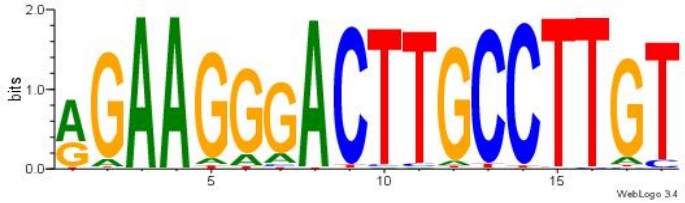

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0864861

Alignment:
TGAGKCAATTAAACCTCTT
---AAGGAAACAA------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

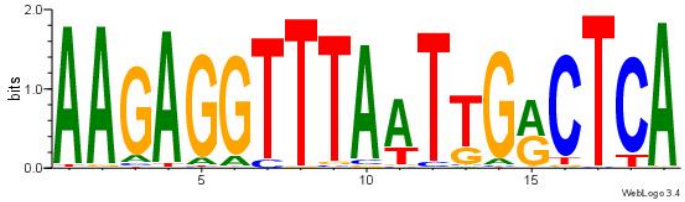

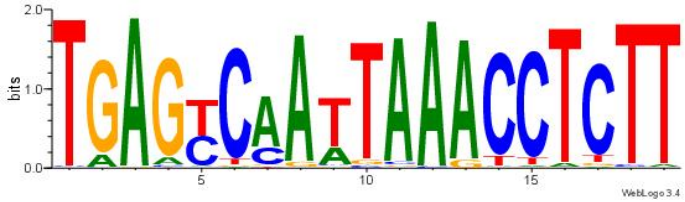

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0875814

Alignment:

```
TCGTTCACTCAGTGC
TTGTTTCCTT-----
```

Original motif Consensus sequence: GCACTGAGTGAACGA

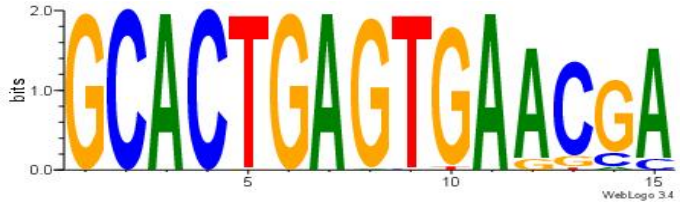

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

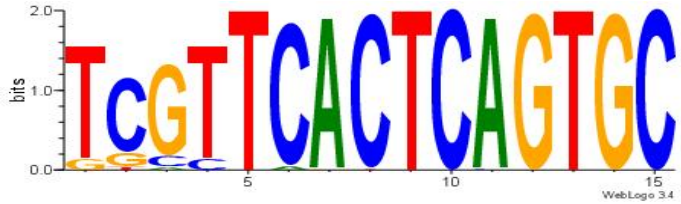

Dataset #:	1
Motif ID:	189

Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0876201

Alignment:

```
CAATGATAGACTGGAT
-AAGGAAACAA-----
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

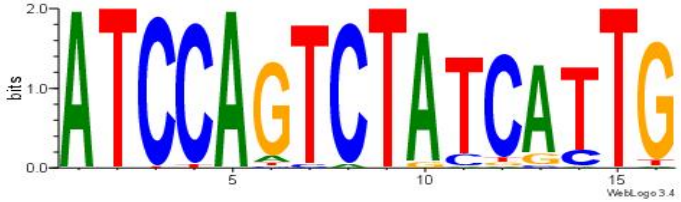

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.087628

Alignment:
AATGAGTTAAGACTTTG
AAGGAAACAA-------

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence:
CAAAGTCTTAACTCATT

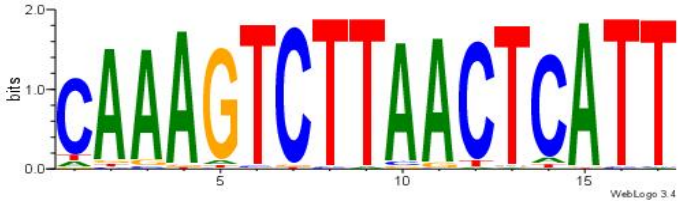

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0876409

Alignment:
AGGAGGAAGTCAATTTC
--AAGGAAACAA-----

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence:
GAAATTGACTTCCTCCT

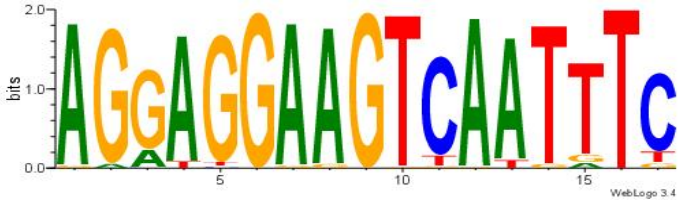

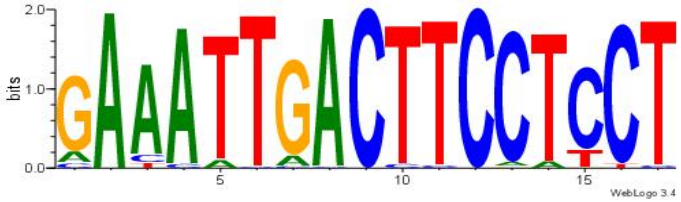

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0876536

Alignment:

```
TGGGTTCYTGGTC
TTGTTTCCTT---
```

Original motif Consensus sequence: GACCAMGAACCCA

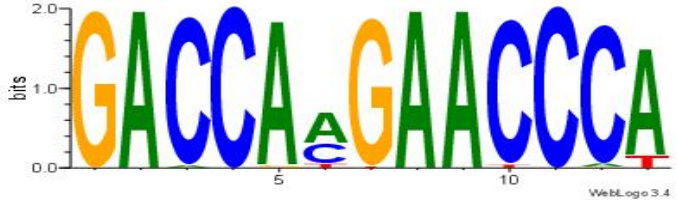

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

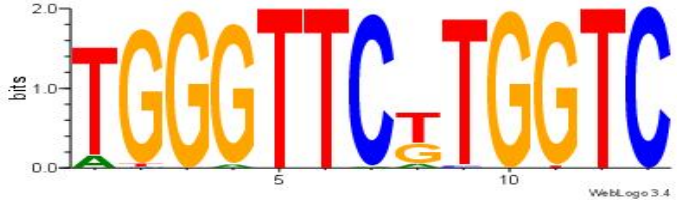

Dataset #:	1
Motif ID:	19

Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0876929

Alignment:

```
CACCAGGAGATTATATCCCR
TTGTTTCCTT----------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

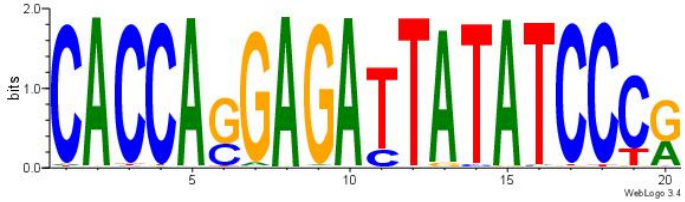

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

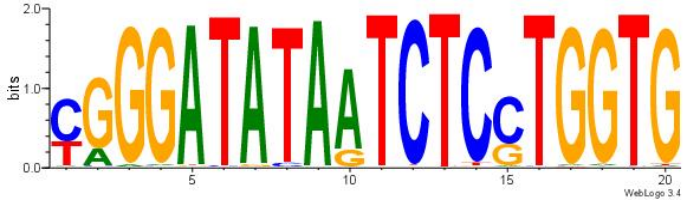

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0877949

Alignment:
ATTGGTGTATTTACAATCCC
---------TTGTTTCCTT-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

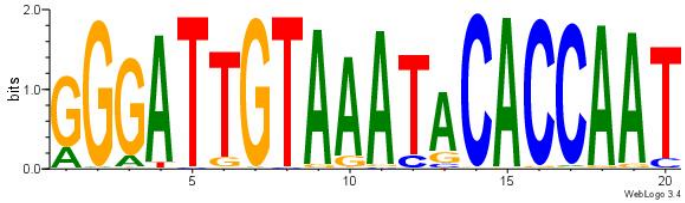

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0880251

Alignment:
GACTTCAAGAATGAAGCCG
-----AAGGAAACAA----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

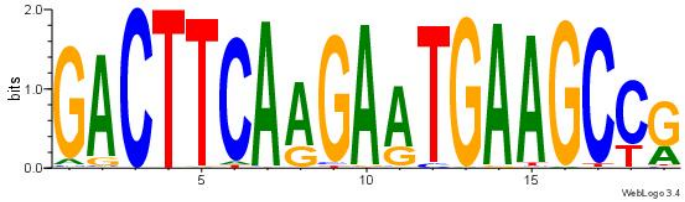

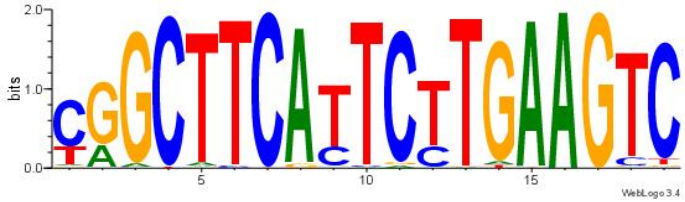

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0884547

Alignment:

```
AGTGAGAACATRYRRTRTTT
TTGTTTCCTT----------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

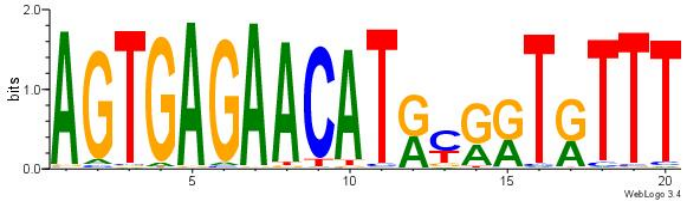

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

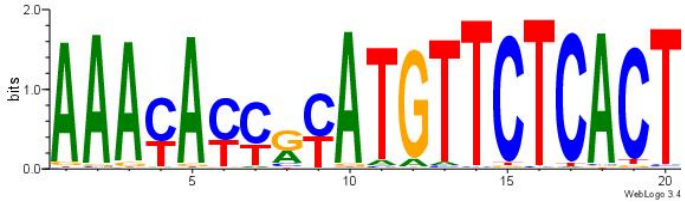

Dataset #: 1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0888063

Alignment:

```
GAGAACACATGGACA
AAGGAAACAA-----
```

Original motif Consensus sequence: GAGAACACATGGACA

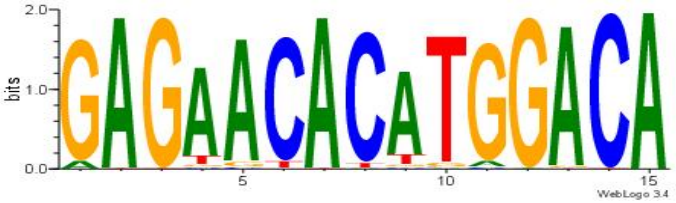

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

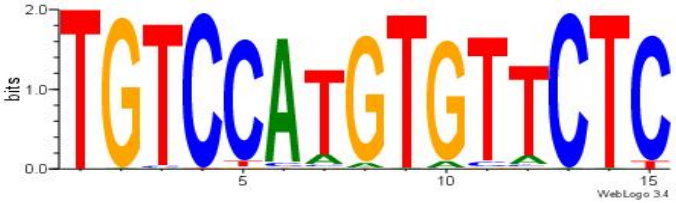

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0888453

Alignment:
GTTGTGAGGATTAAATGAG
----AAGGAAACAA-----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

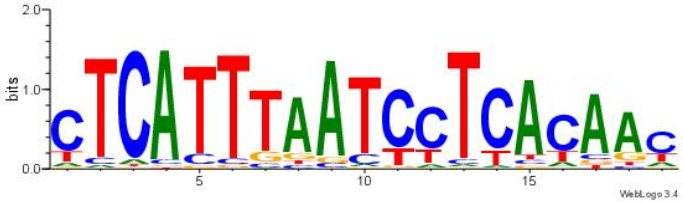

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

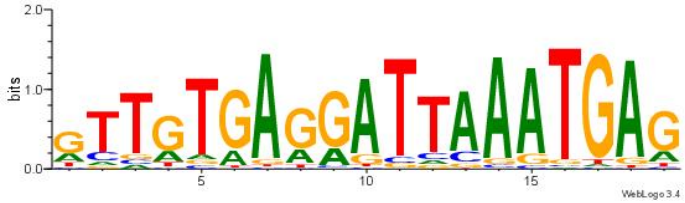

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0889879

Alignment:
GACAGGAGATTAACACTGAG
--AAGGAAACAA--------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

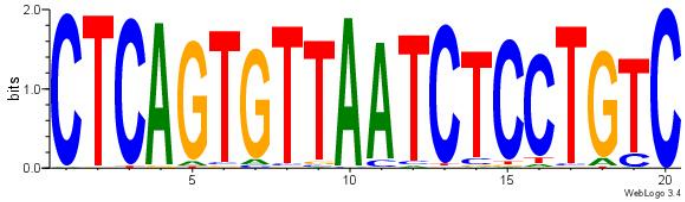

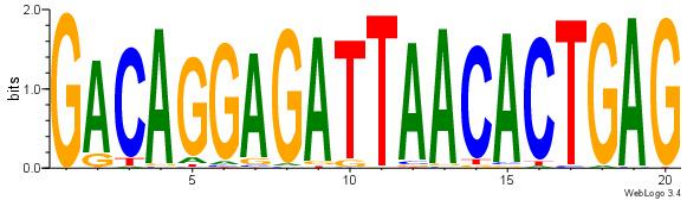

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0890424

Alignment:

```
TCAGGAGTGAAGCTGC
-AAGGAAACAA-----
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

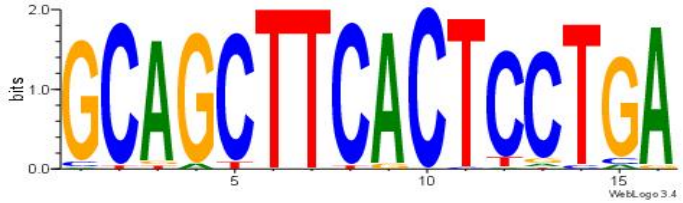

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

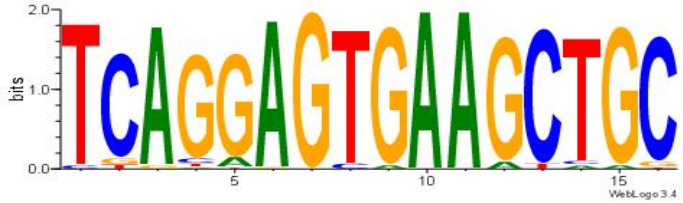

Dataset #:	1

Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0891775

Alignment:

```
CAGAAATCACC
AAGGAAACAA-
```

Original motif Consensus sequence: CAGAAATCACC

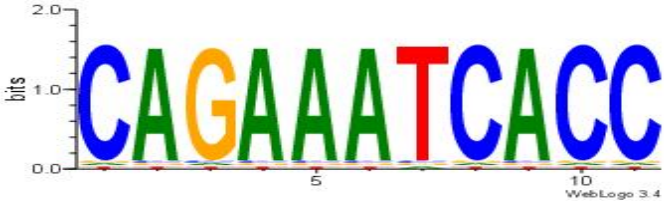

Reverse complement motif Consensus sequence: GGTGATTTCTG

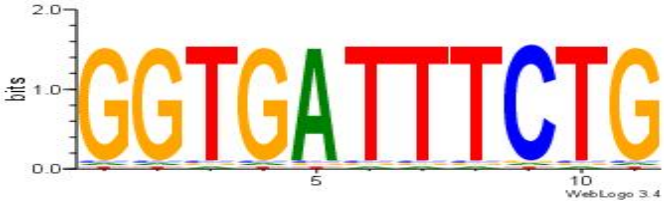

Dataset #: 1 Motif ID: 174 Motif name: Motif 174

Original motif Consensus sequence: GGGGTGAVCAGAT

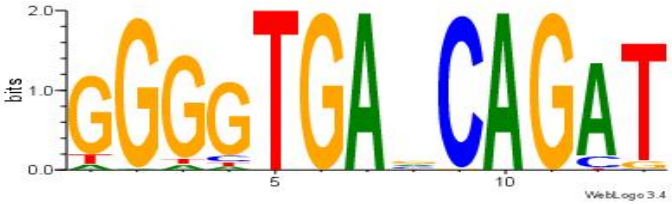

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

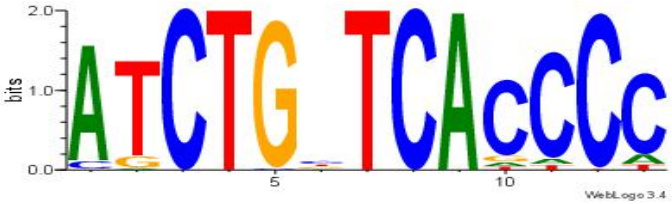

Best Matches for Motif ID 174 (Highest to Lowest)

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0735305

Alignment:

```
CATCTGGCAGCCCA
-ATCTGVTCACCCC
```

Original motif Consensus sequence: CATCTGGCAGCCCA

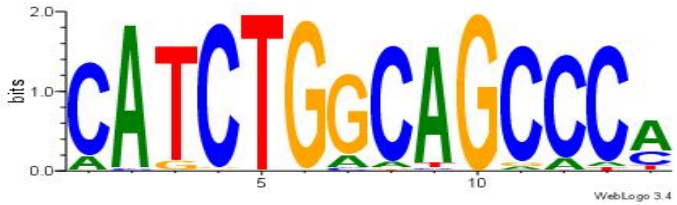

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

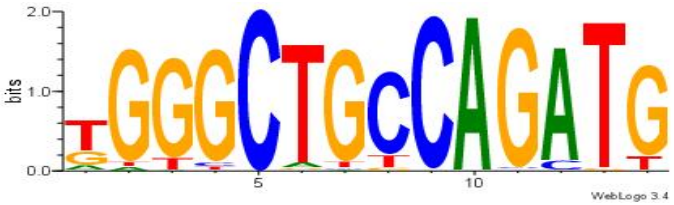

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0766821

Alignment:

```
CATCTGGAGCCCCA
-ATCTGVTCACCCC
```

Original motif Consensus sequence: CATCTGGAGCCCCA

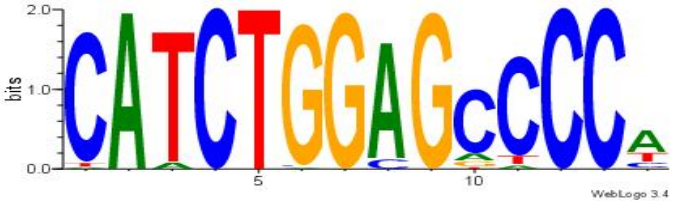

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

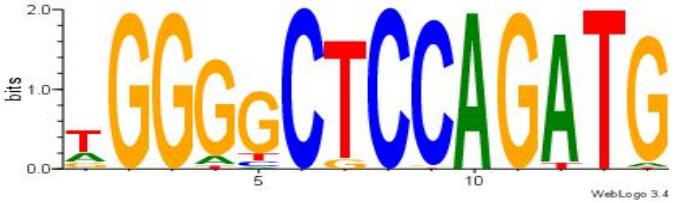

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0767655

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-GGGGTGAVCAGAT------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

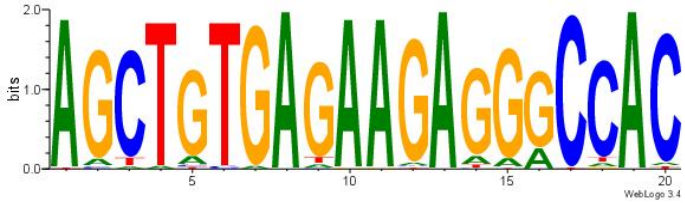

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

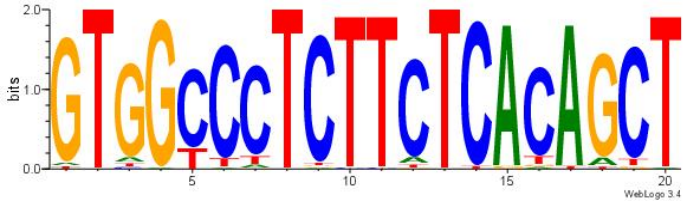

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0827379

Alignment:

```
TCTMKGCTCACTGC
-ATCTGVTCACCCC
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

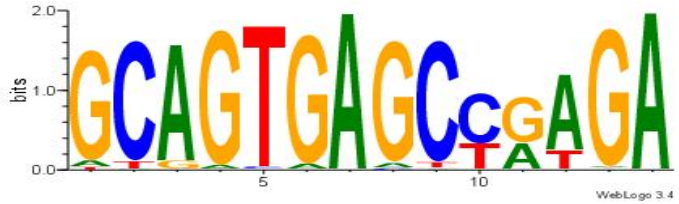

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

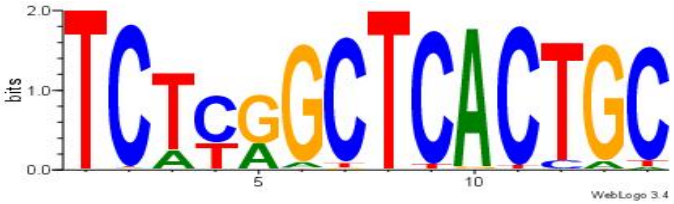

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.083141

Alignment:

```
GGTGGGGGGGTCAGCCCCC
---GGGGTGAVCAGAT---
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

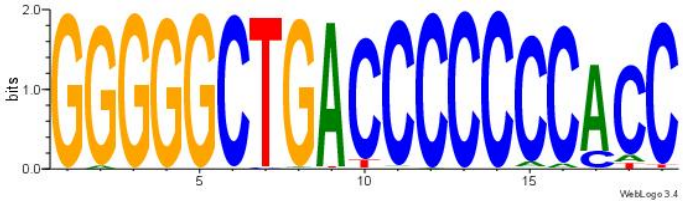

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

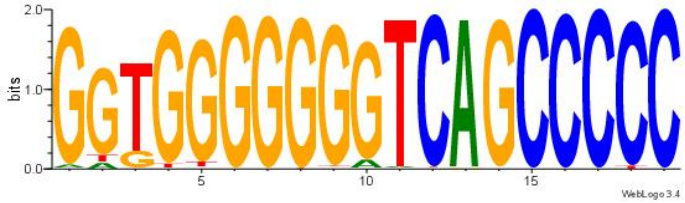

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 13
Similarity score: 0.084433

Alignment:
ATACAATGGGGGTACAGRC
------GGGGTGAVCAGAT

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

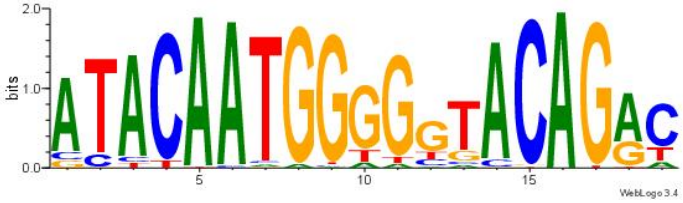

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

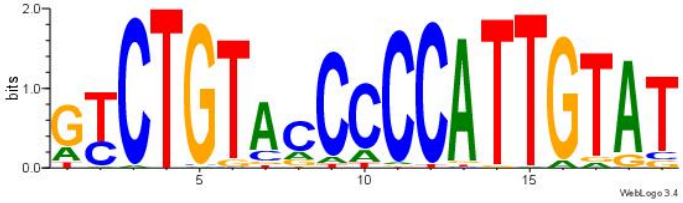

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0869283

Alignment:
AGGAGCCCCTCHGCCCR
-ATCTGVTCACCCC---

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

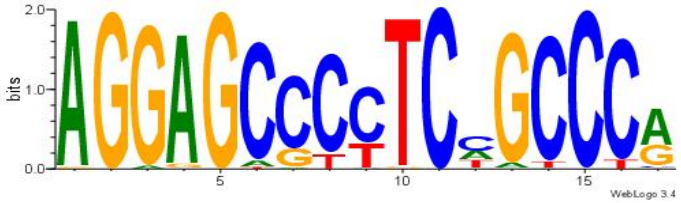

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0876161

Alignment:

```
AGGAGCGCCTCTKCCCGGC
---ATCTGVTCACCCC---
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

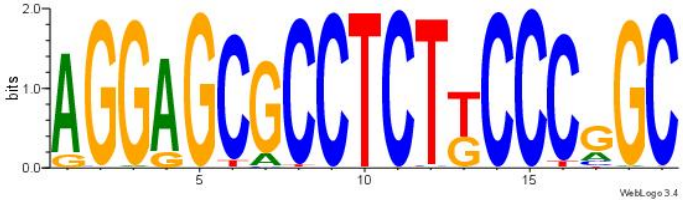

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

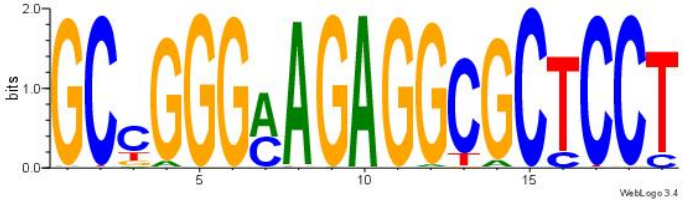

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0917219

Alignment:

```
KACGGGCTTAARAAACGGC
---GGGGTGAVCAGAT---
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

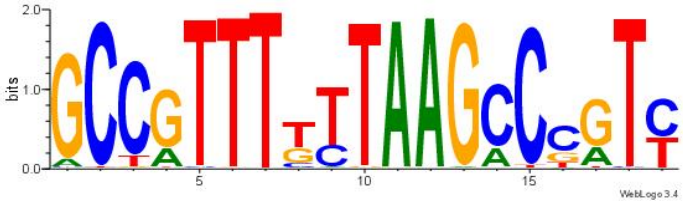

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

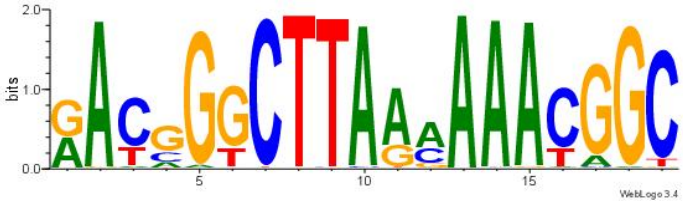

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.092299

Alignment:
CATTTGGGAGCCCATTGA
-ATCTGVTCACCCC----

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

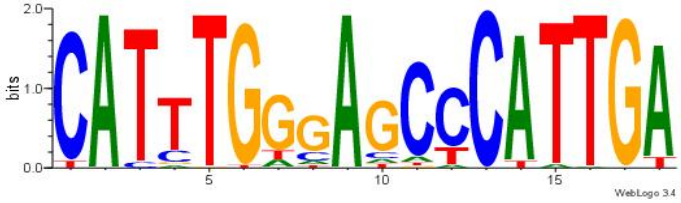

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

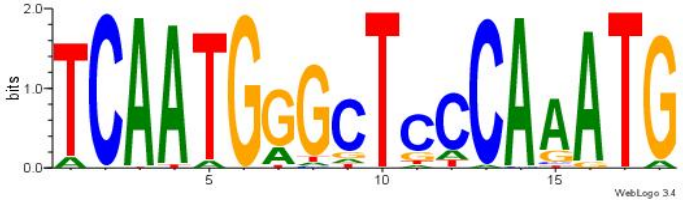

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0923772

Alignment:
ATCRCTTGAGSYCAGGAGKT
-------ATCTGVTCACCCC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

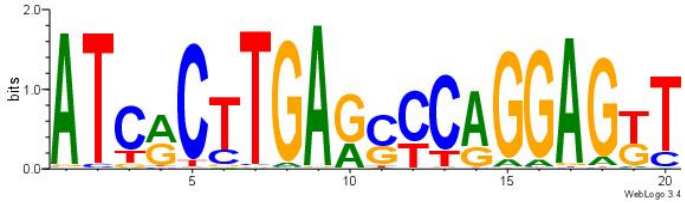

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

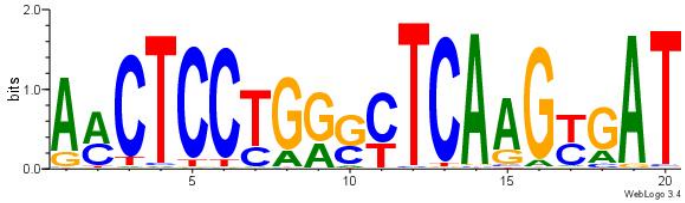

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0926476

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
---GGGGTGAVCAGAT----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

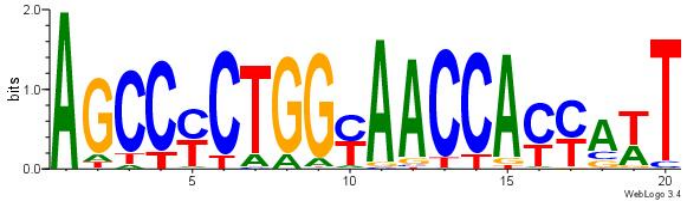

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

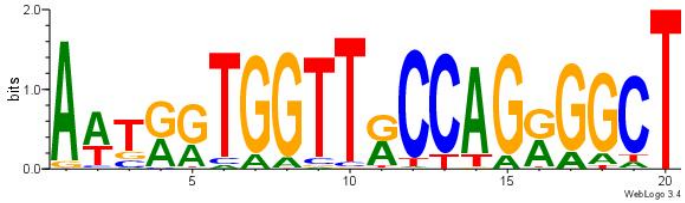

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0933569

Alignment:

```
TGHCCTGCKCCCACTGTCT
--ATCTGVTCACCCC----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

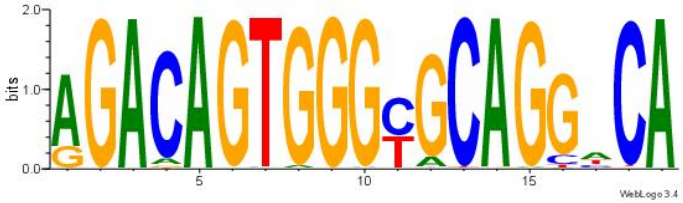

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

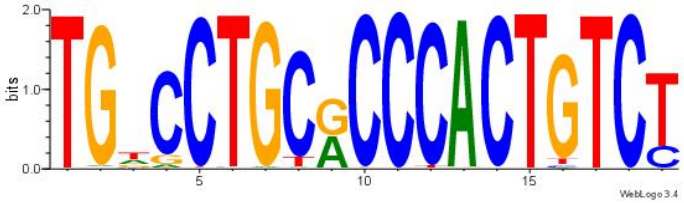

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 13
Similarity score: 0.0937479

Alignment:
TGGATGGATGGATGGAT
GGGGTGAVCAGAT----

Original motif Consensus sequence: ATCCATCCATCCATCCA

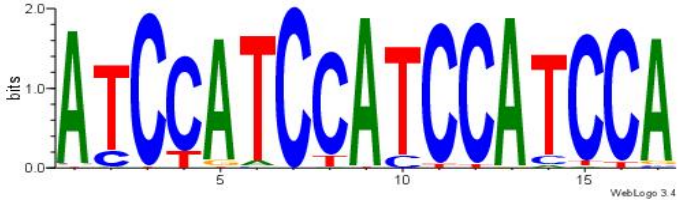

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0944422

Alignment:
ACCGAGMKMGCAGCTTCGGG
--GGGGTGAVCAGAT-----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

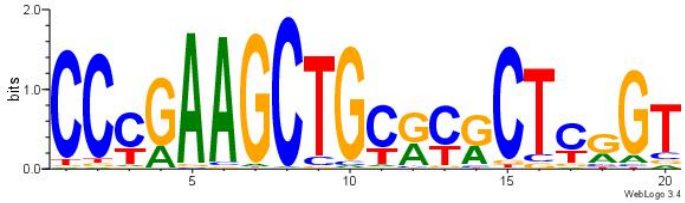

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

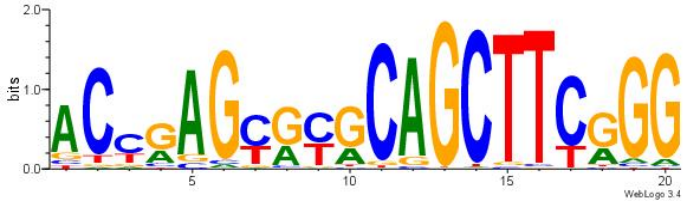

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0947005

Alignment:

```
BCVTCTGTCACCCC
-ATCTGVTCACCCC
```

Original motif Consensus sequence: GGGGTGACAGABGB

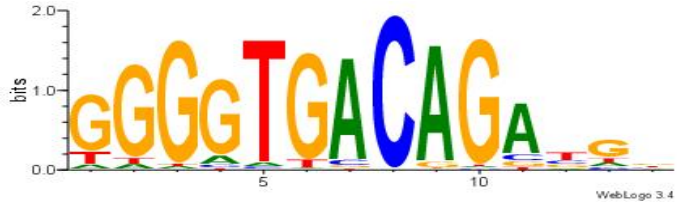

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

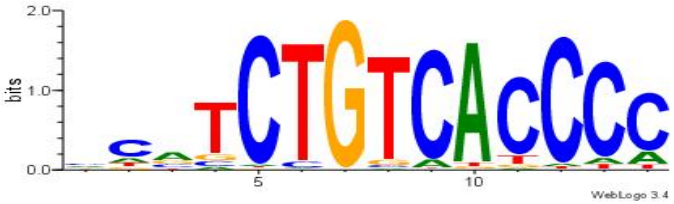

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0954445

Alignment:

```
CTGGGCAACAAGAG
GGGGTGAVCAGAT-
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

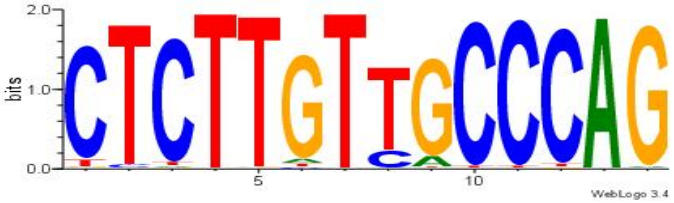

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

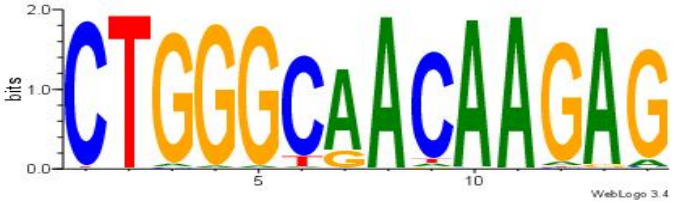

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.0958505

Alignment:
GCGGCCGGGCAGAG
GGGGTGAVCAGAT-

Original motif Consensus sequence: CTCTGCCCGGCCGC

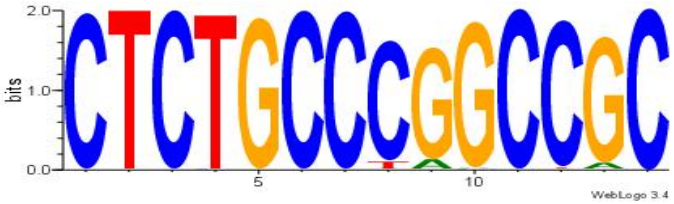

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

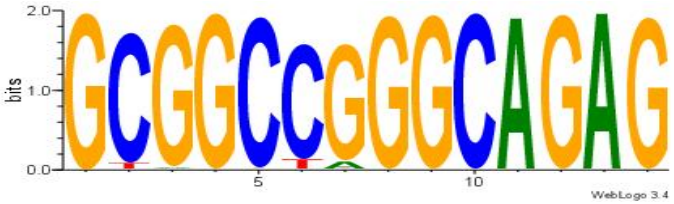

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0968731

Alignment:
GCTTCTGGTGAGGGC
--ATCTGVTCACCCC

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

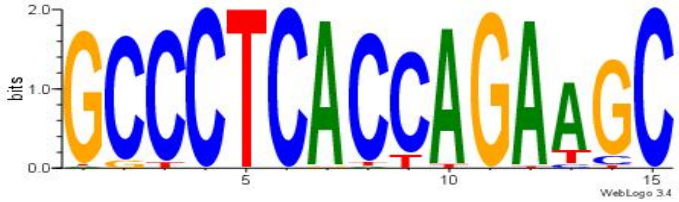

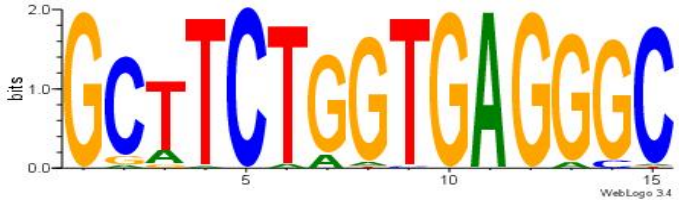

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0978423

Alignment:

```
MTCCTCCAGACCCCAGAATG
-ATCTGVTCACCCC------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

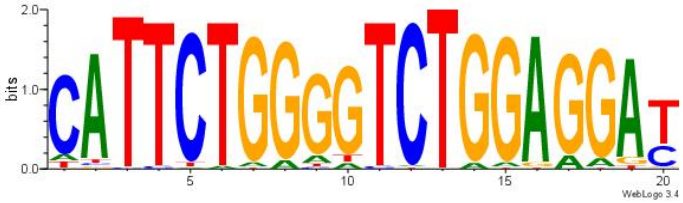

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

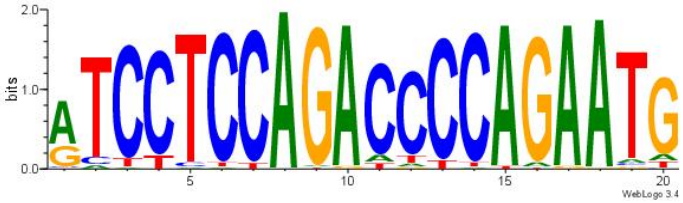

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0982938

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-------GGGGTGAVCAGAT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

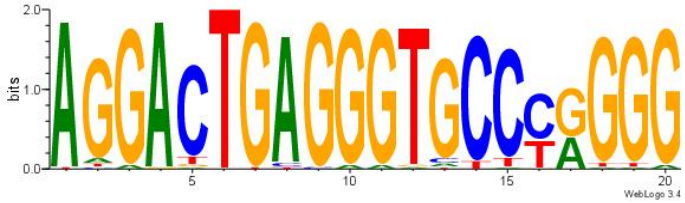

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

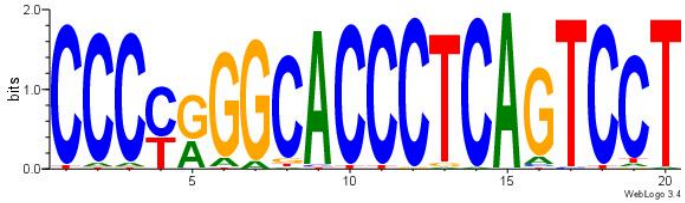

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.0983969

Alignment:
GGAGGTGTGGAGGGAGAGGC
------GGGGTGAVCAGAT-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

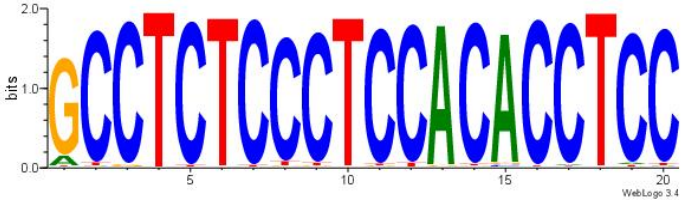

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

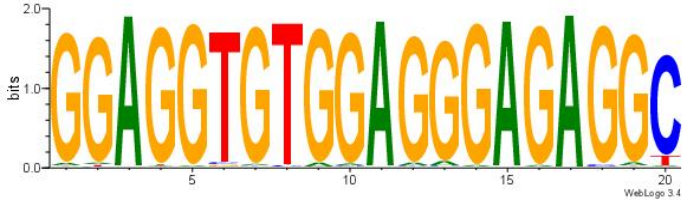

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0993688

Alignment:
TTTGGTGCACCCATCA
-GGGGTGAVCAGAT--

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

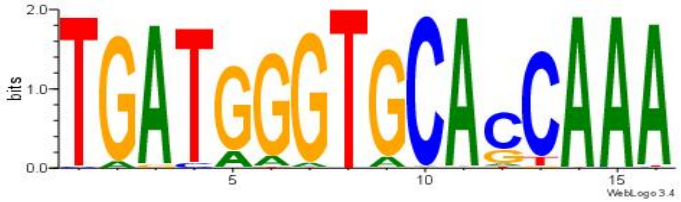

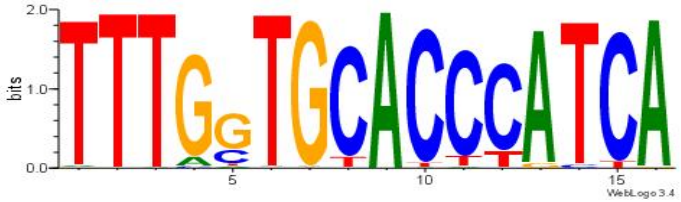

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.099527

Alignment:

```
GCTGCARTCTCGGCACTTT
------ATCTGVTCACCCC
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

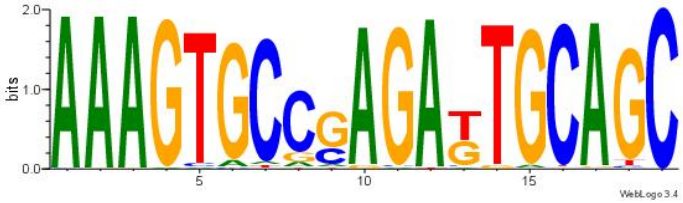

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

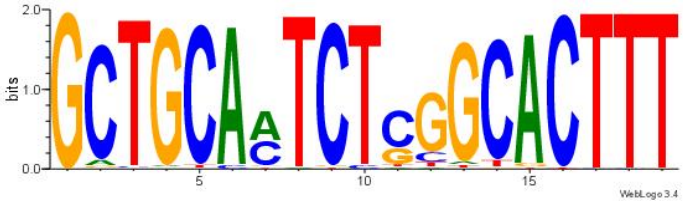

Dataset #:	1

Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0998595

Alignment:

```
GGGAGGGATATATTAGC
GGGGTGAVCAGAT----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

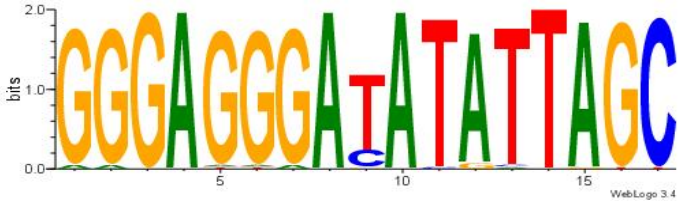

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

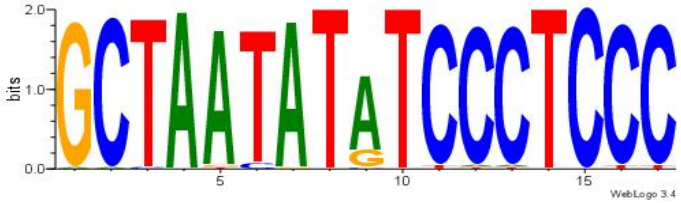

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.099896

Alignment:
GACCTGCAGCCCGCCATG
-ATCTGVTCACCCC----

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

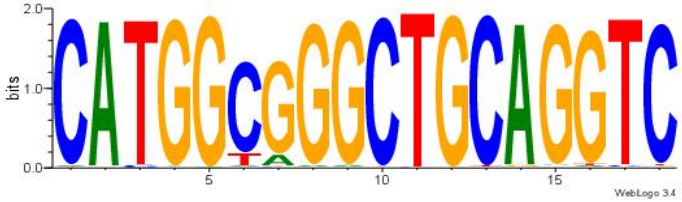

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

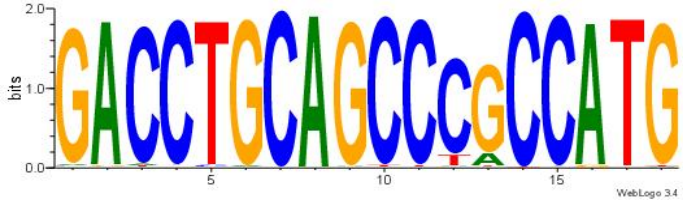

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.100183

Alignment:
CTTTCTGGGCTGGCCAAGG
--ATCTGVTCACCCC----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

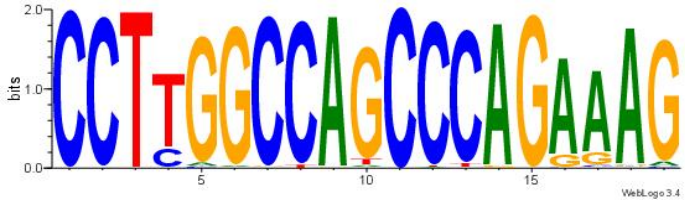

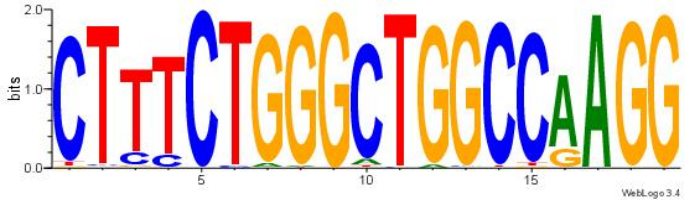

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.10118

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
ATCTGVTCACCCC-------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

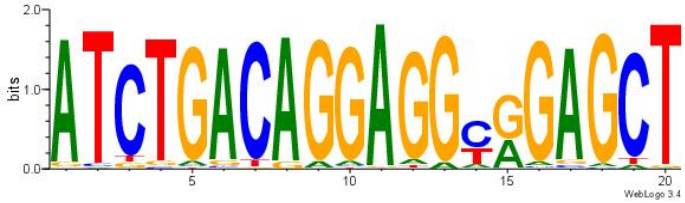

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

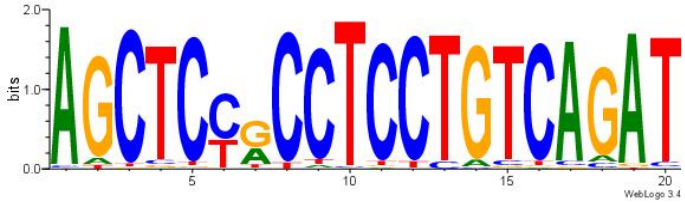

Dataset #:	1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.101217

Alignment:

```
MGTGTGATGTCTCCCCC
---ATCTGVTCACCCC-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

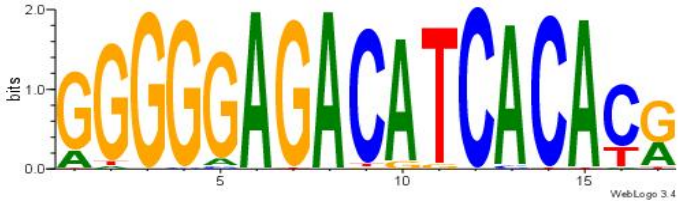

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

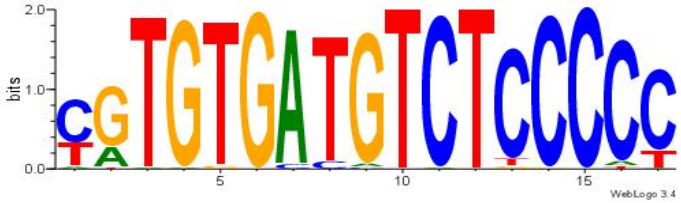

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.101329

Alignment:
AGTAGGTGCTCARTAAATRB
----ATCTGVTCACCCC---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

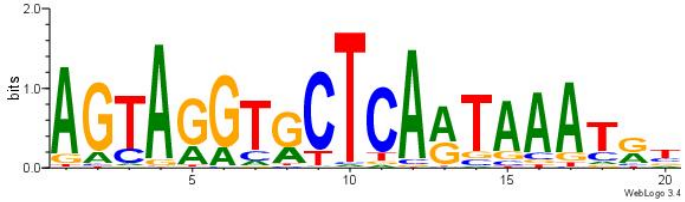

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

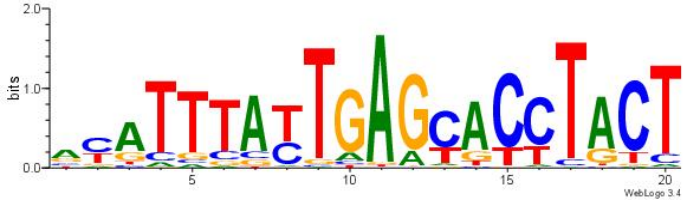

Dataset #: 1
Motif ID: 236
Motif name: Motif 236
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.101559

Alignment:
ATCTGAGGTACCG
ATCTGVTCACCCC

Original motif Consensus sequence: ATCTGAGGTACCG

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

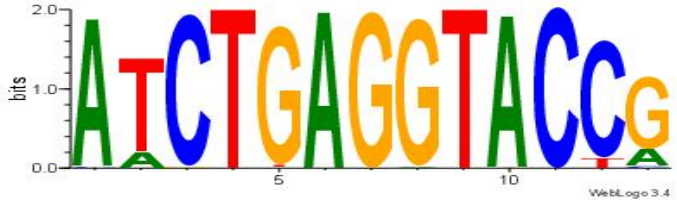

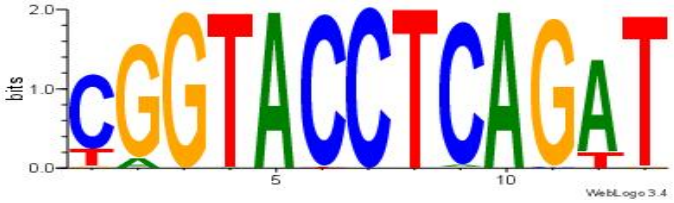

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.102552

Alignment:

```
GGGGTGATGGACG
GGGGTGAVCAGAT
```

Original motif Consensus sequence: CGTCCATCACCCC

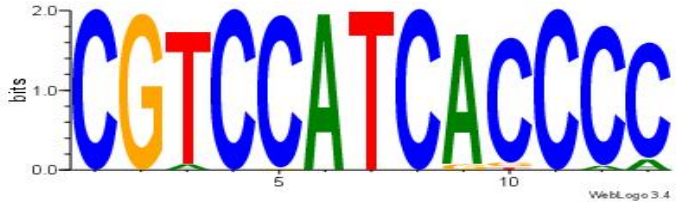

Reverse complement motif Consensus sequence: GGGGTGATGGACG

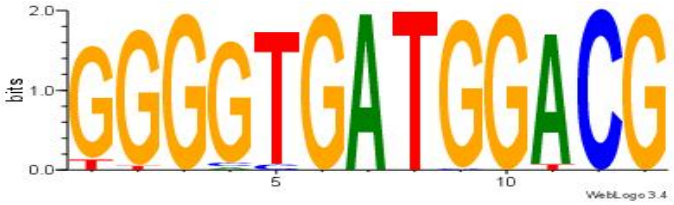

Dataset #:	1
Motif ID:	347

Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.102993

Alignment:

```
ACACCTATTCGCACAC
--ATCTGVTCACCCC-
```

Original motif Consensus sequence: ACACCTATTCGCACAC

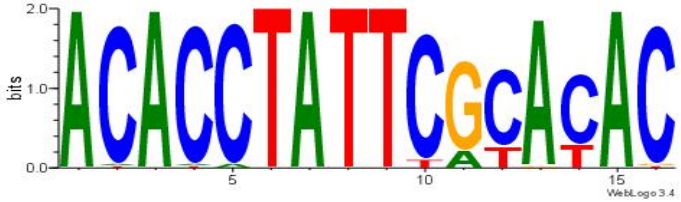

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

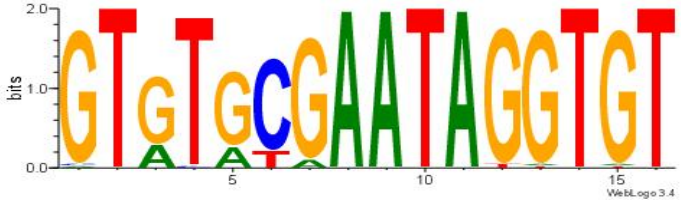

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.10319

Alignment:
AGTGAGAACATRYRRTRTTT
GGGGTGAVCAGAT-------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

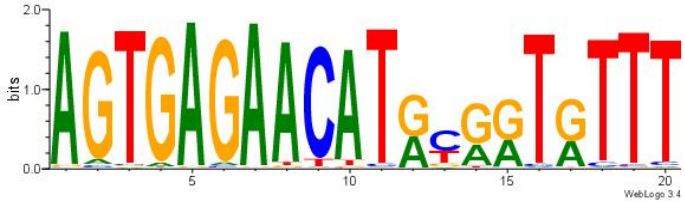

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

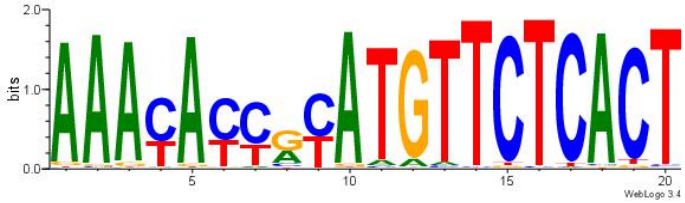

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.104548

Alignment:
AACTGAGGCTCAGAGA
--GGGGTGAVCAGAT-

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

Reverse complement motif Consensus sequence:
AACTGAGGCTCAGAGA

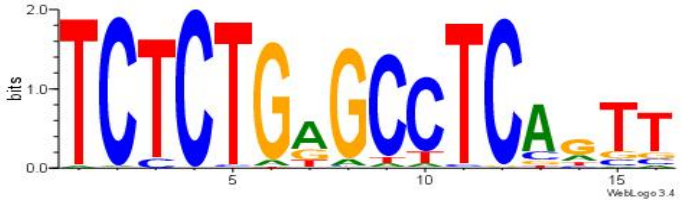

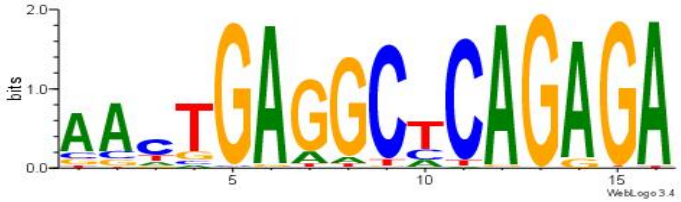

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.104699

Alignment:

```
GCAWSTGCAAAGGCCCT
--ATCTGVTCACCCC--
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

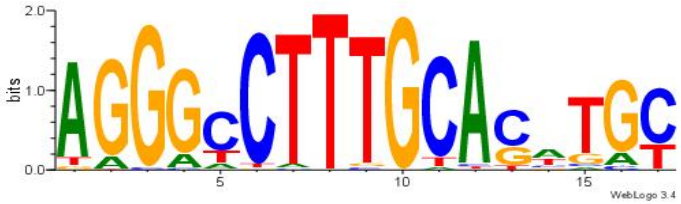

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

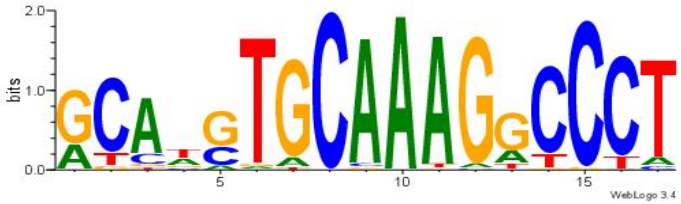

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.104754

Alignment:

```
MGGGATATAATCTCCTGGTG
----ATCTGVTCACCCC---
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

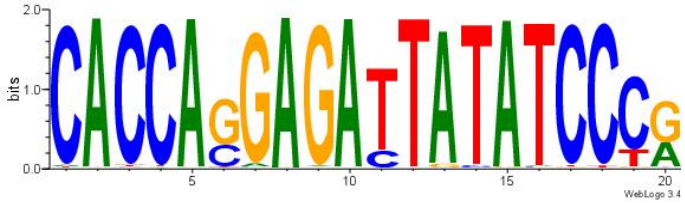

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

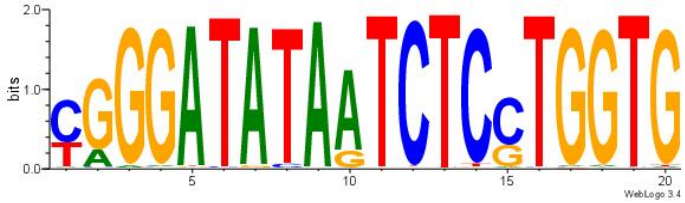

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.10586

Alignment:
ATGGAATAYTATTCAGCCAT
-ATCTGVTCACCCC------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

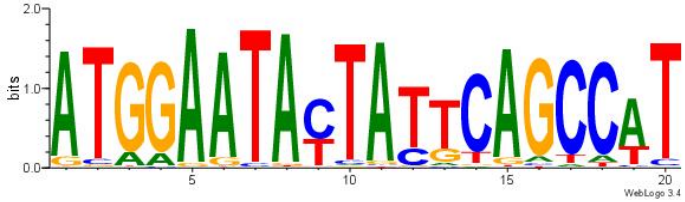

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

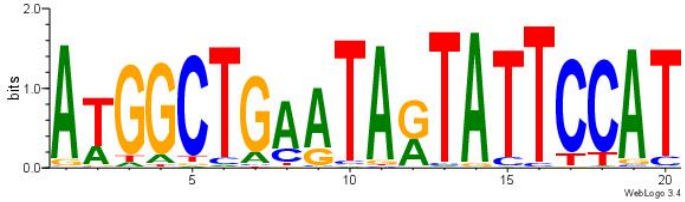

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.106486

Alignment:
AGGAACAGCTCCRGTCTAC
---ATCTGVTCACCCC---

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

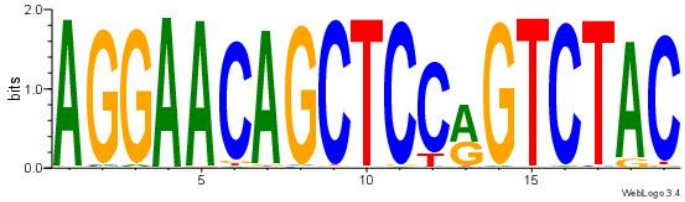

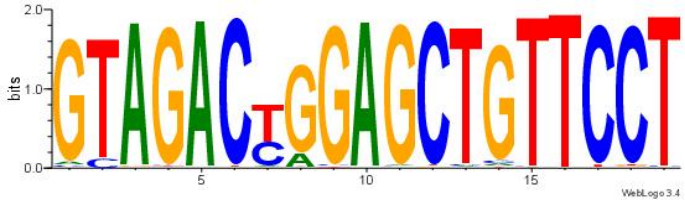

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.106509

Alignment:

```
GTTGTGAGGATTAAATGAG
---GGGGTGAVCAGAT---
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

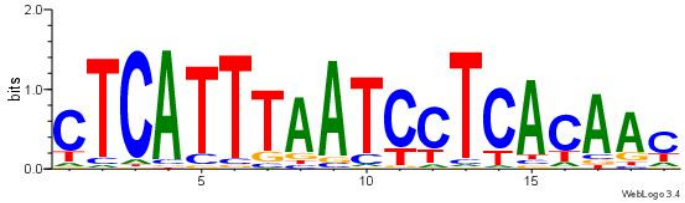

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

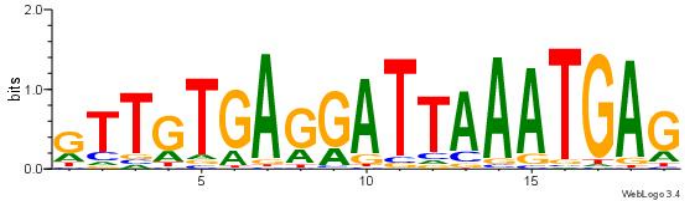

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106513

Alignment:

```
GMTTAGCTCCCACTTA
-ATCTGVTCACCCC--
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

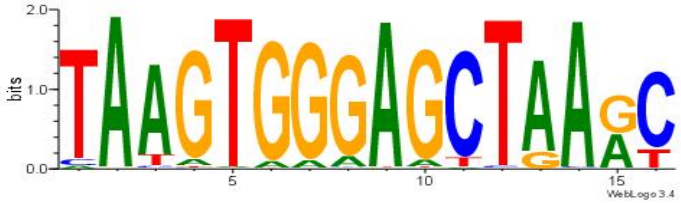

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

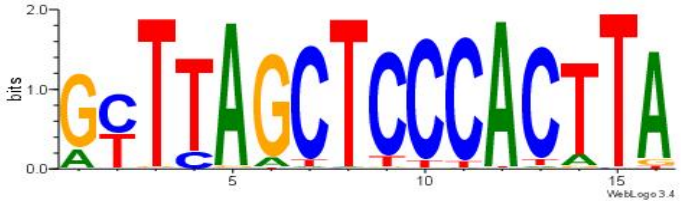

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.106531

Alignment:
TAGTGGTGATTTSTGAGAT
--GGGGTGAVCAGAT----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

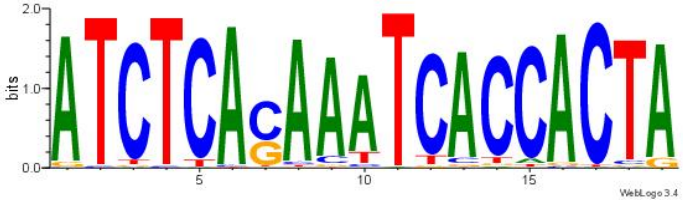

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

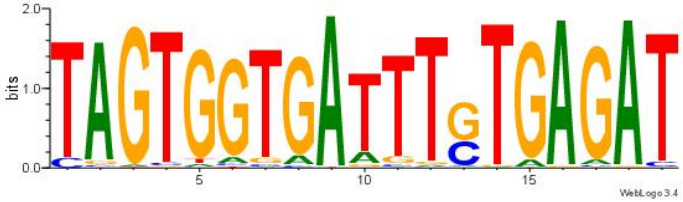

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.106537

Alignment:
HAGTGGKATTGCTGGATCAT
---GGGGTGAVCAGAT----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

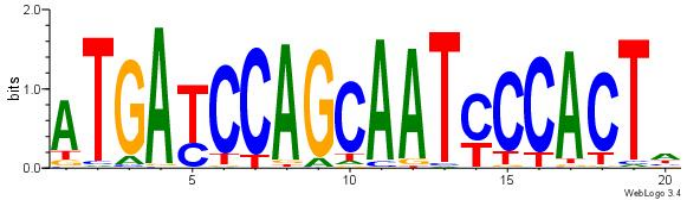

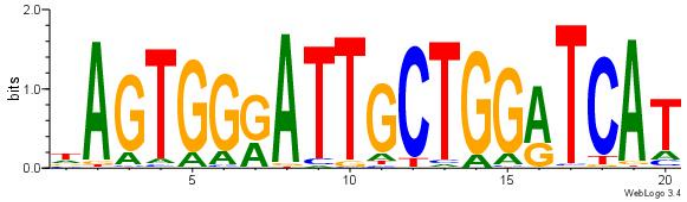

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.108417

Alignment:

```
CCTAGATTTCAGARGATGT
----GGGGTGAVCAGAT--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

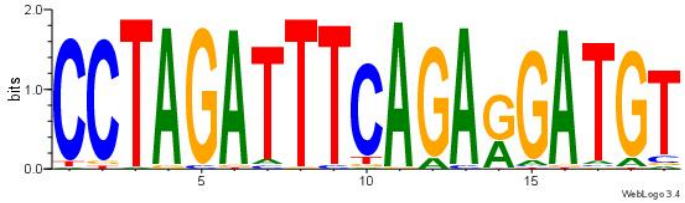

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

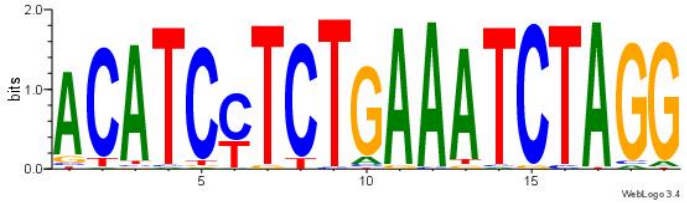

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.109287

Alignment:

```
CGTCGCTCACGCTGGGAGCT
ATCTGVTCACCCC-------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

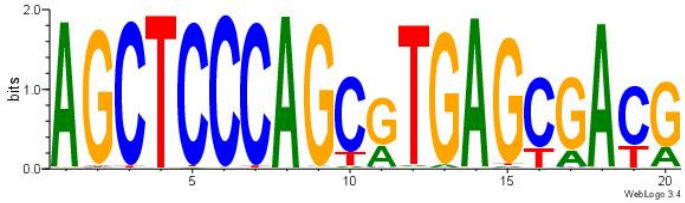

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

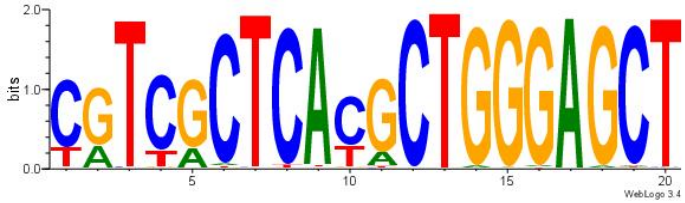

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.109776

Alignment:
TTGGAGGTTCTAGCAGGG
-----GGGGTGAVCAGAT

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

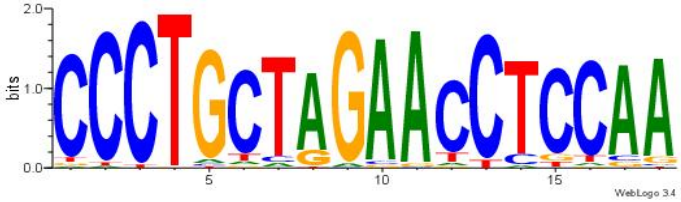

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

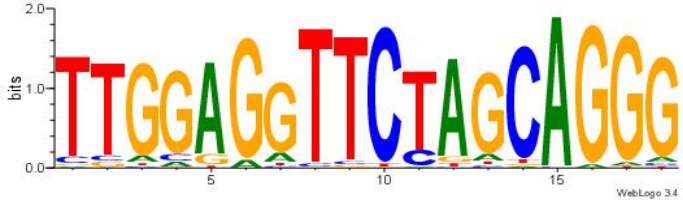

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.109806

Alignment:
GAAGGCAGCTAAGGCCCGGY
----ATCTGVTCACCCC---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

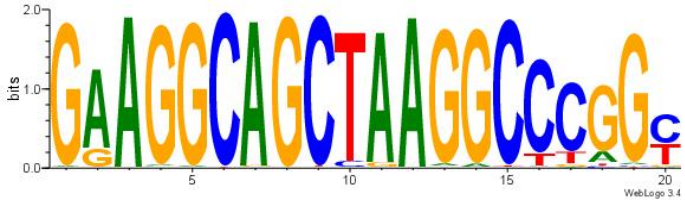

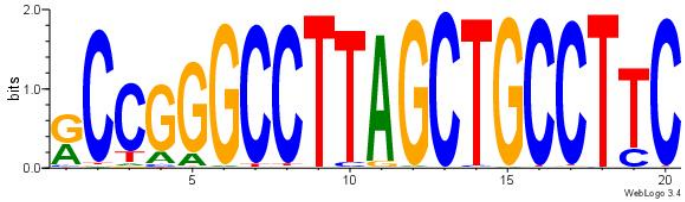

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.109827

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
---ATCTGVTCACCCC----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

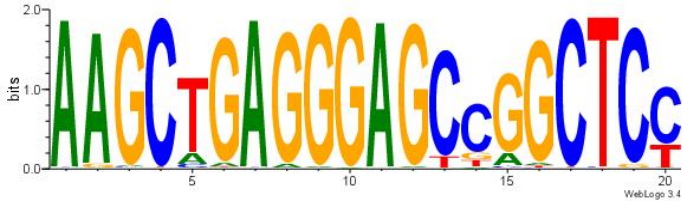

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

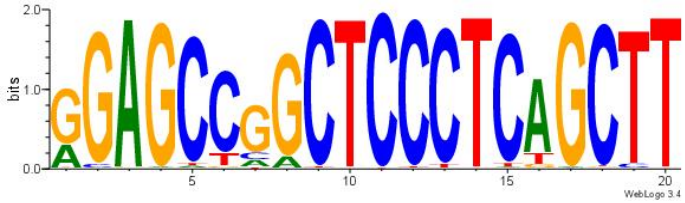

Dataset #:	1

Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110075

Alignment:

```
GCGGCTGGCCGGGCG
-GGGGTGAVCAGAT-
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

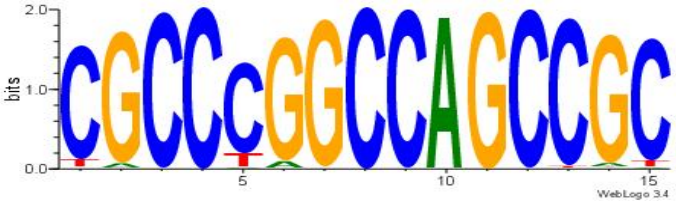

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

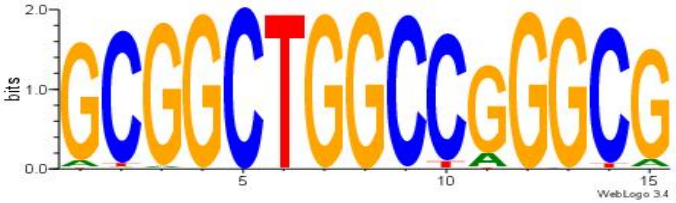

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.110103

Alignment:
CMCAGTTCACAATAGGGTT
ATCTGVTCACCCC------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

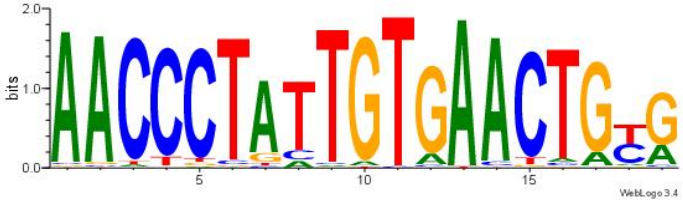

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

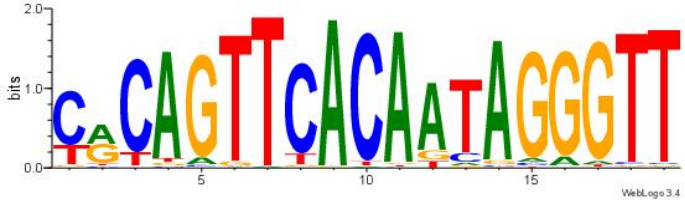

Dataset #: 1 Motif ID: 175 Motif name: Motif 175

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

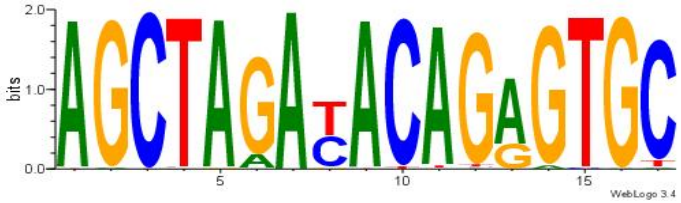

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

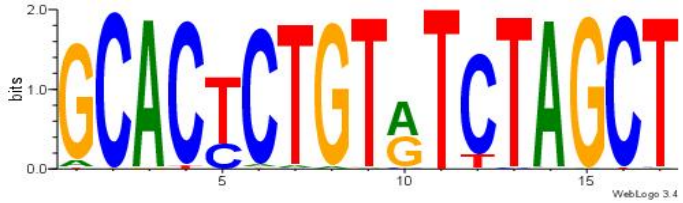

Best Matches for Motif ID 175 (Highest to Lowest)

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0923803

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
GCACTCTGTMTCTAGCT---
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

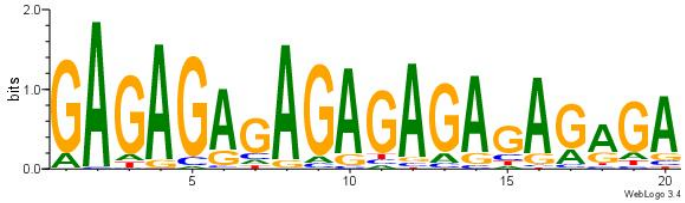

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

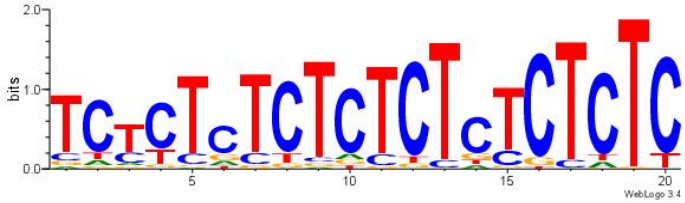

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0970004

Alignment:

AGAGCCAAATCATGARTGAA
--AGCTAGAYACAGAGTGC-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

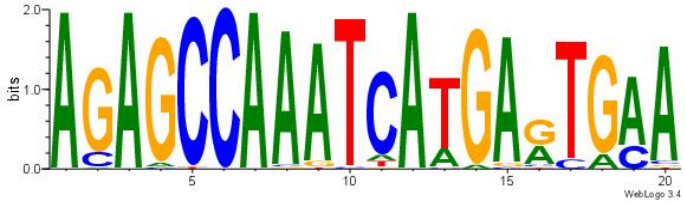

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

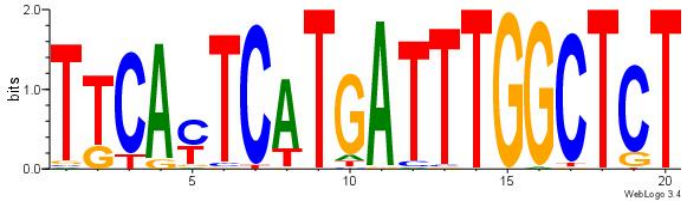

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.106953

Alignment:
ACAGGCTGTCCCAGGATTC
GCACTCTGTMTCTAGCT--

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

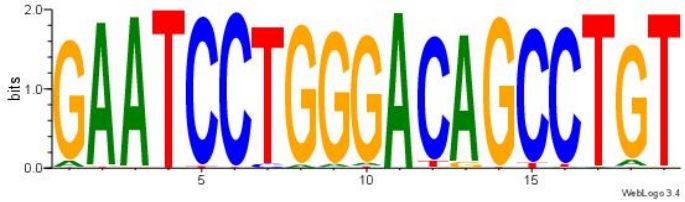

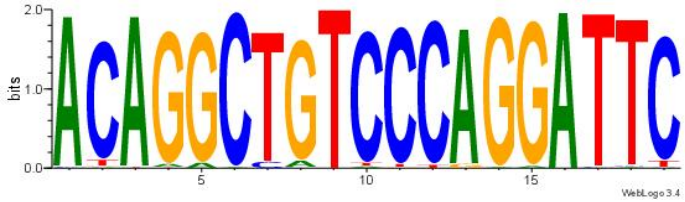

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.107528

Alignment:

```
GTGGCCCTCTTCTCACAGCT
---GCACTCTGTMTCTAGCT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

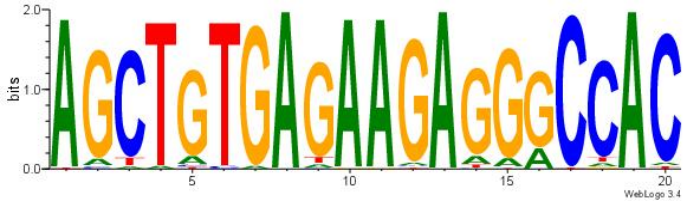

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

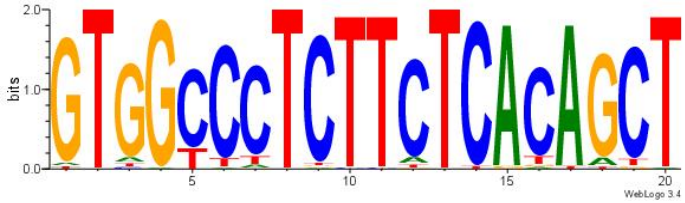

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.112575

Alignment:

```
AACAACASACACTGGGGCCT
AGCTAGAYACAGAGTGC---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

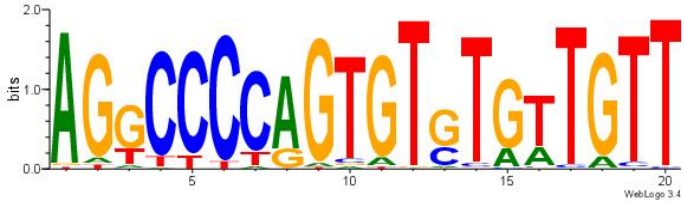

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

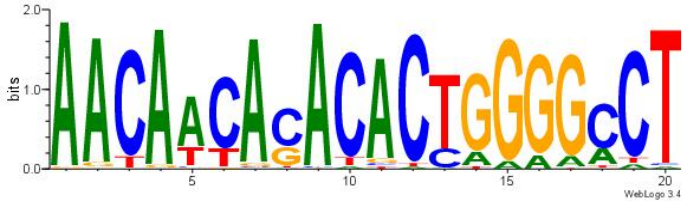

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.119518

Alignment:
CCGCTGCACTGTGGGAGCCC
-AGCTAGAYACAGAGTGC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

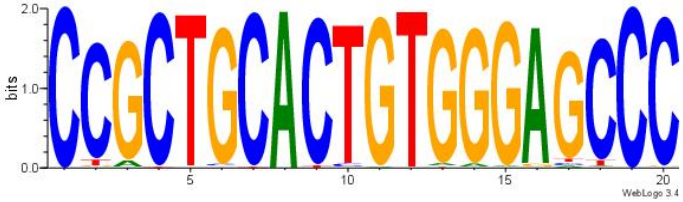

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

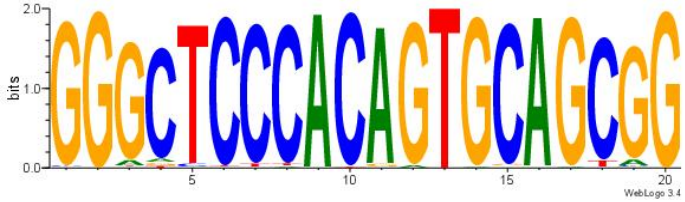

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.120305

Alignment:
CTGGGCTCCTGAGTCTGGTG
GCACTCTGTMTCTAGCT---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

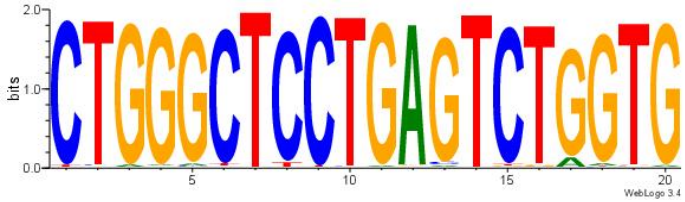

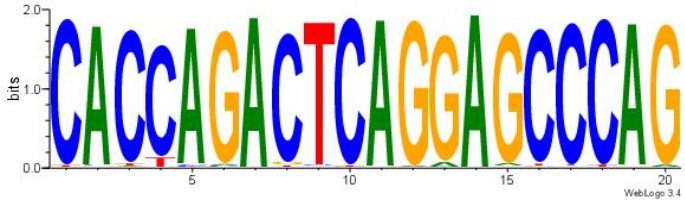

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.122338

Alignment:

```
CTTCGCTGACTCTCTTT
GCACTCTGTMTCTAGCT
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

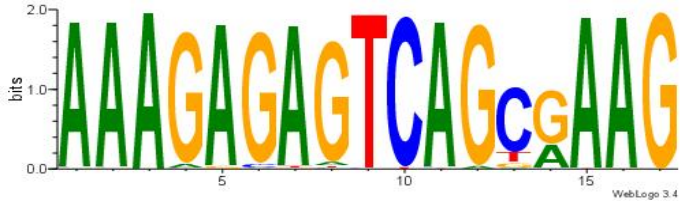

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

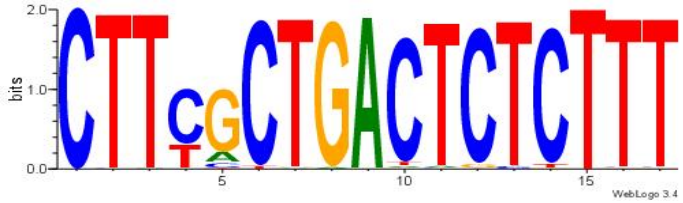

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.123567

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-AGCTAGAYACAGAGTGC--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

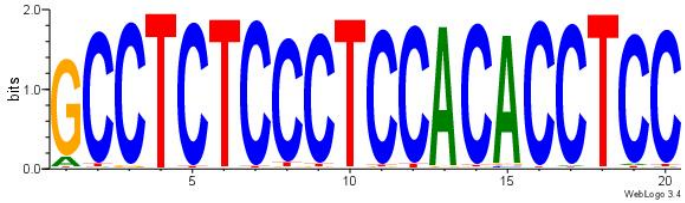

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

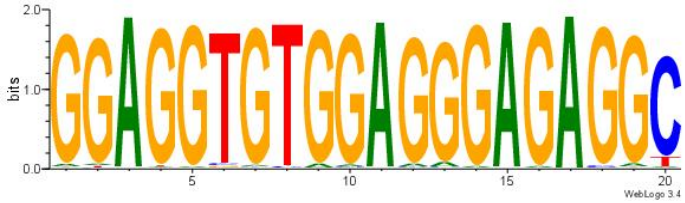

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.124062

Alignment:
CTATTGTGAATARTGCTGC
--GCACTCTGTMTCTAGCT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

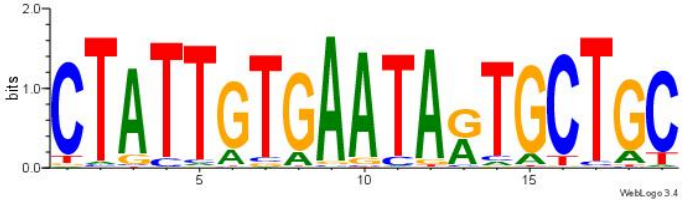

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

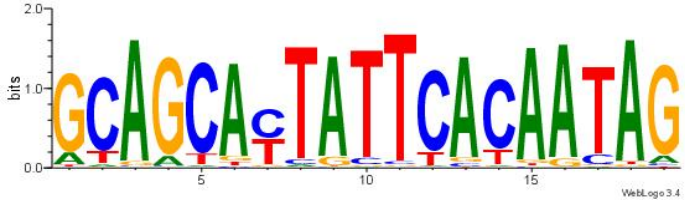

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.124749

Alignment:
ACCTGGAAAATCGGGTCACT
AGCTAGAYACAGAGTGC---

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

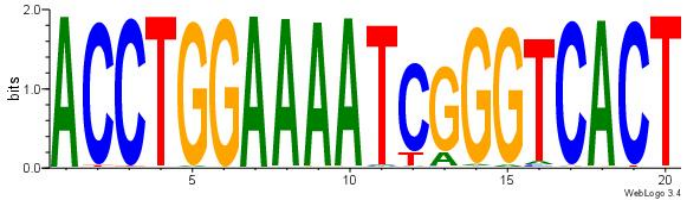

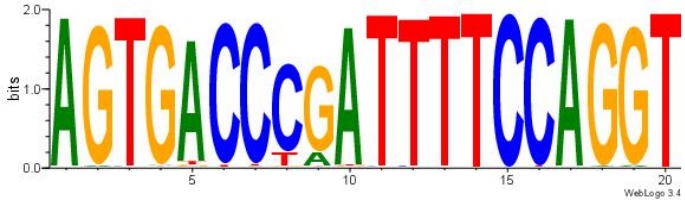

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.124886

Alignment:

```
CAAGTTGACACATAAAATTA
-AGCTAGAYACAGAGTGC--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

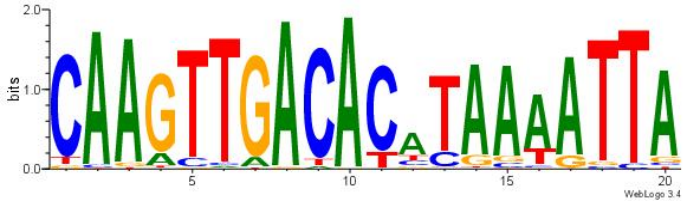

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

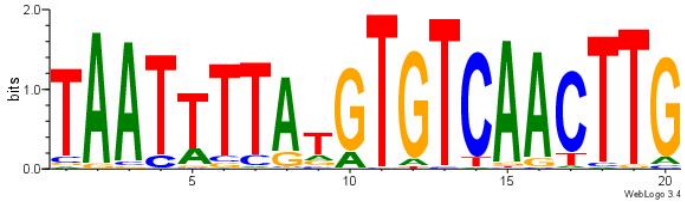

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.125819

Alignment:

```
GTTTAACCATTGAGGGCCAG
AGCTAGAYACAGAGTGC---
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

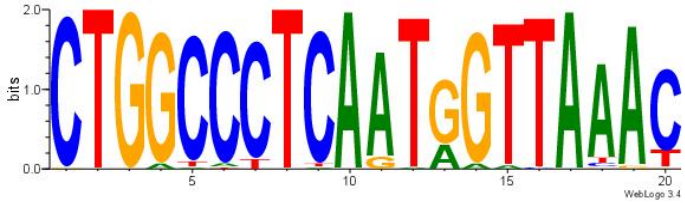

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

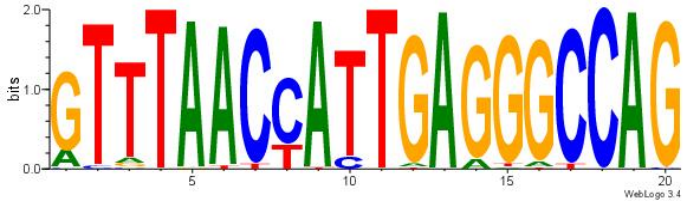

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.126224

Alignment:
AATCAACCCTGGYRATCAAT
GCACTCTGTMTCTAGCT---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

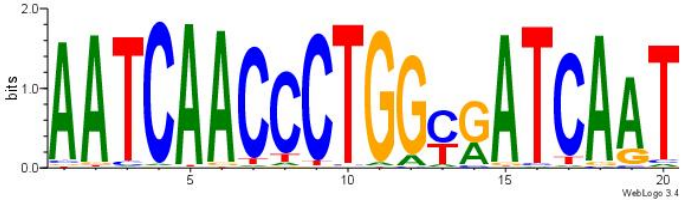

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

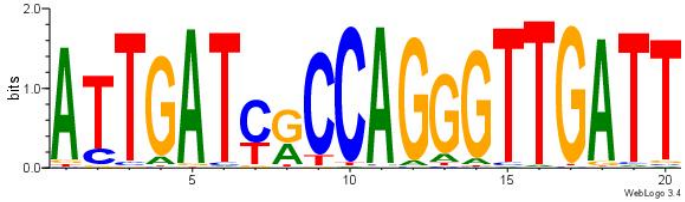

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.126371

Alignment:
TACCTGAGACTGGGTAATTT
---AGCTAGAYACAGAGTGC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

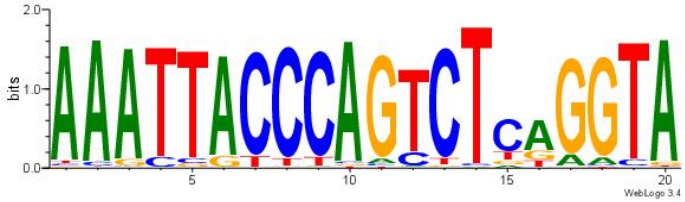

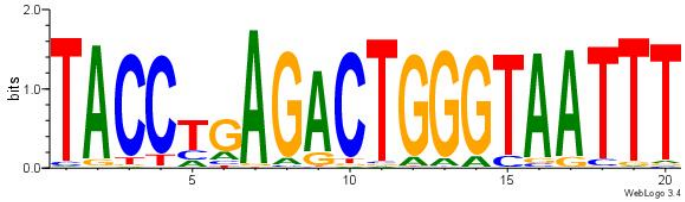

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.126877

Alignment:

```
TWTACCTATGTAACAAACCT
--GCACTCTGTMTCTAGCT-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

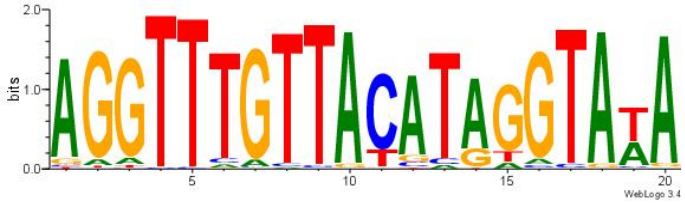

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

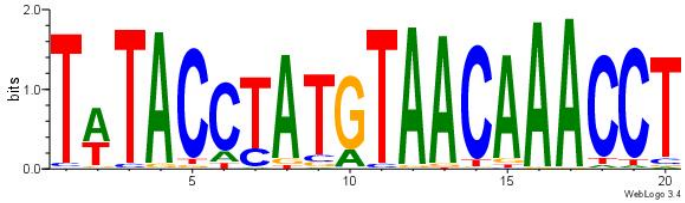

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.126953

Alignment:

```
GGATCCACTGGGTGAAGCCA
-GCACTCTGTMTCTAGCT--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

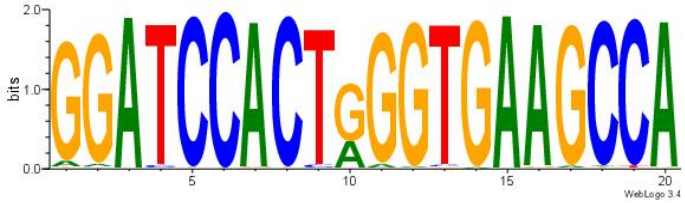

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

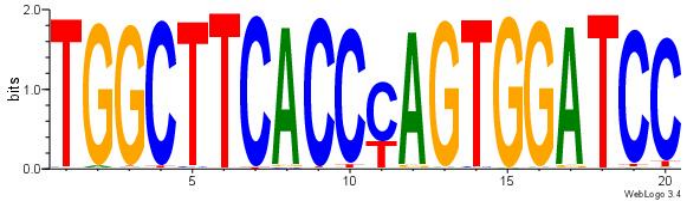

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.127214

Alignment:
GTAACACTCACCGCGARGGT
---GCACTCTGTMTCTAGCT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

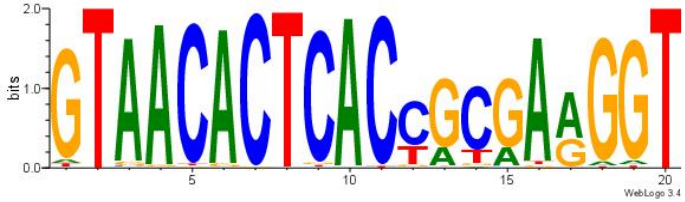

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

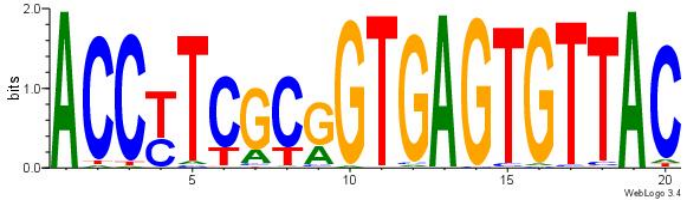

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.127334

Alignment:
TCTGGAGTGGACCTCCAGCA
---GCACTCTGTMTCTAGCT

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

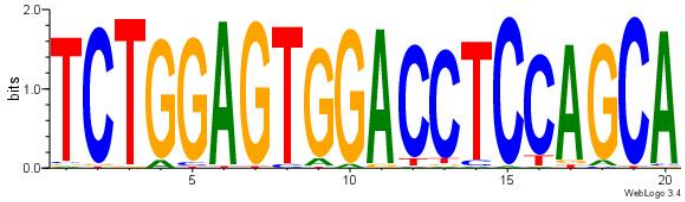

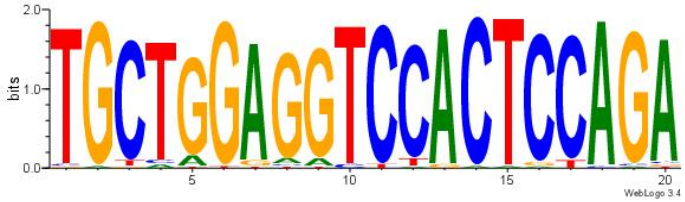

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.127812

Alignment:

```
GCTCCACCCAGTTCGAGCTT
--GCACTCTGTMTCTAGCT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

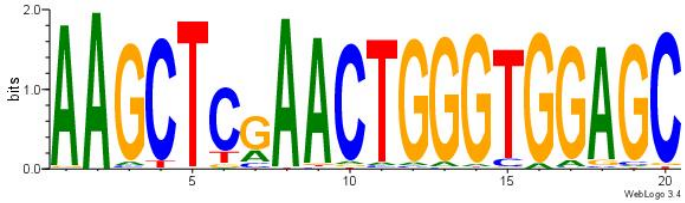

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

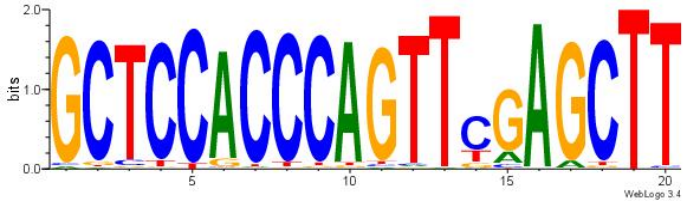

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.128234

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
---GCACTCTGTMTCTAGCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

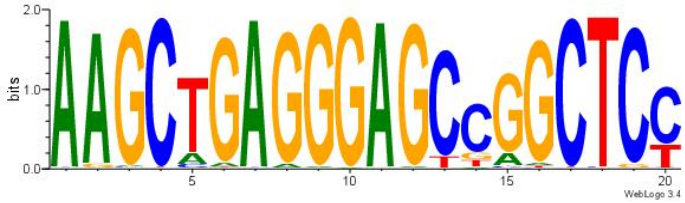

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

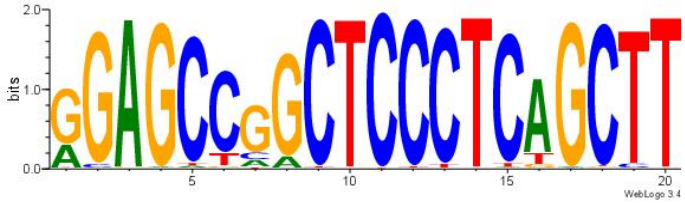

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.12962

Alignment:
CAGTCTGTGTCTTTTAATT
-GCACTCTGTMTCTAGCT-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

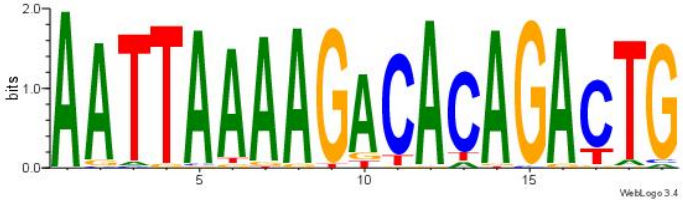

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

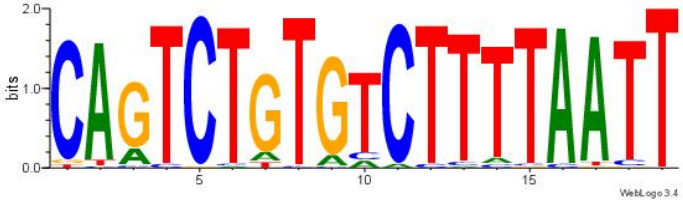

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.130238

Alignment:
TAGATAATAGCTCCAGCTTT
-GCACTCTGTMTCTAGCT--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

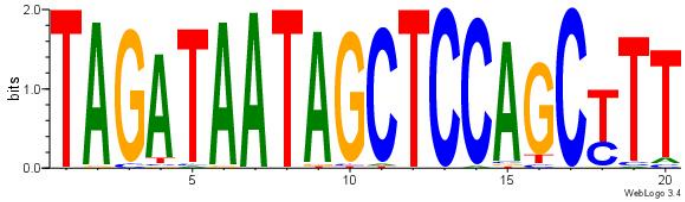

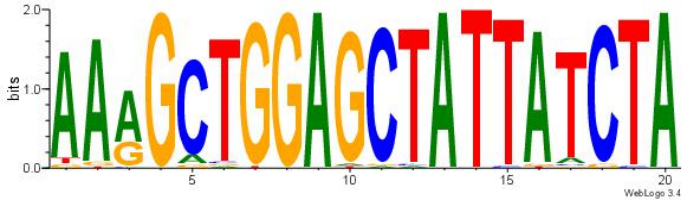

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.130306

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-GCACTCTGTMTCTAGCT--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

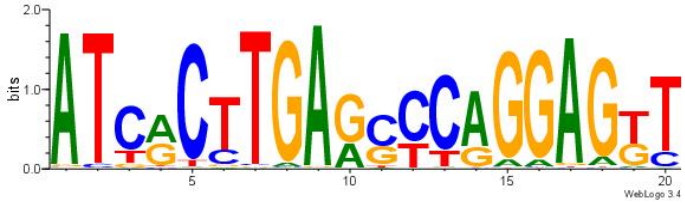

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

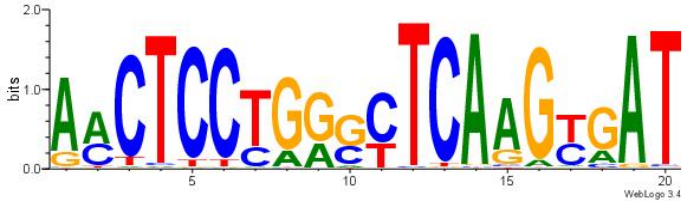

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.13065

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
GCACTCTGTMTCTAGCT---
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

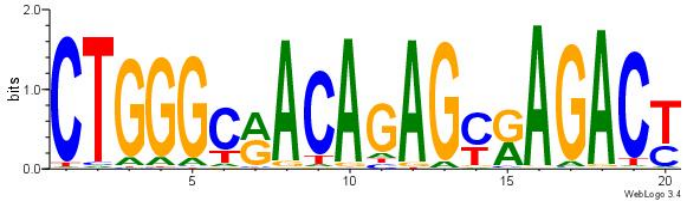

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

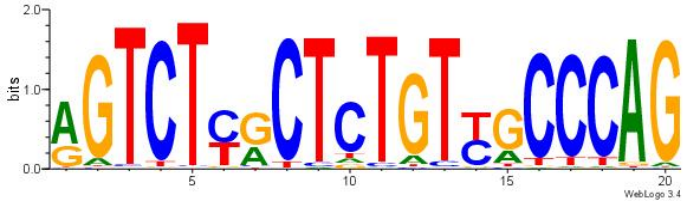

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.131924

Alignment:
GTGCCAGGCACTGTKCTARG
-AGCTAGAYACAGAGTGC--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

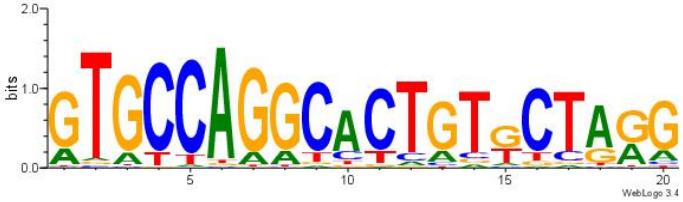

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

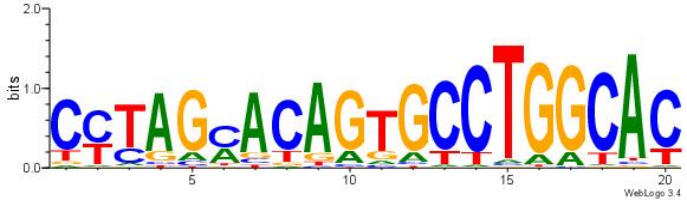

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.132365

Alignment:
AAGTCCAAGATCAAGGTGYY
--AGCTAGAYACAGAGTGC-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

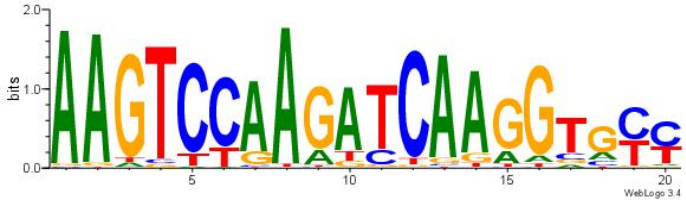

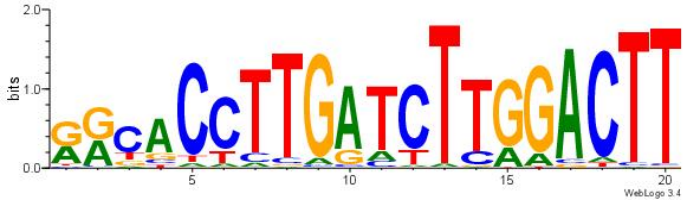

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.134603

Alignment:

```
AATGACCAATTGAGAGC
AGCTAGAYACAGAGTGC
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

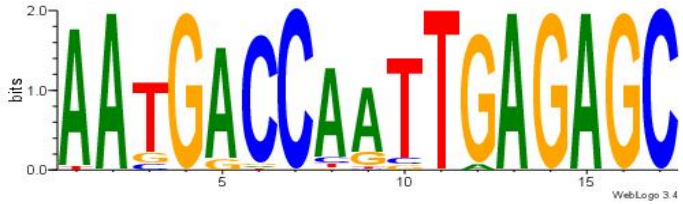

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

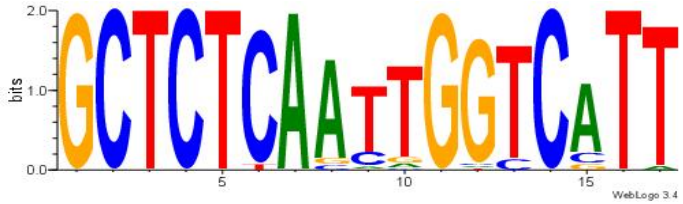

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.134873

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AGCTAGAYACAGAGTGC---
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

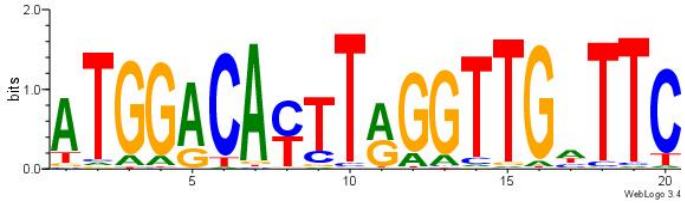

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

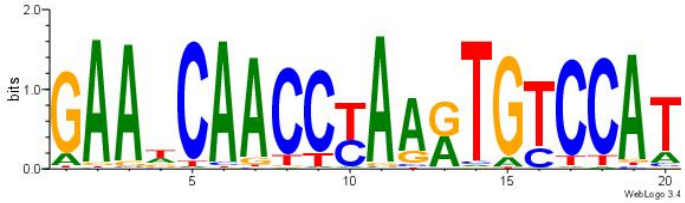

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.13521

Alignment:
ATGTAACCAAAYACCACCTG
--GCACTCTGTMTCTAGCT-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

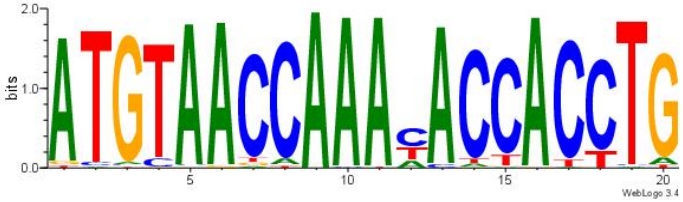

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

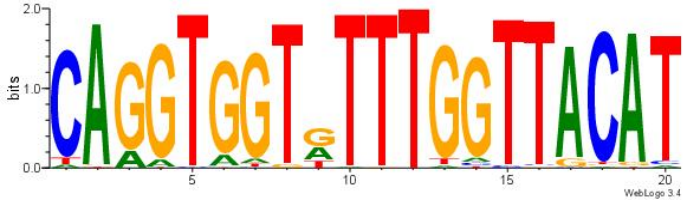

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.13521

Alignment:
KCCGGGCCTTAGCTGCCTTC
-GCACTCTGTMTCTAGCT--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

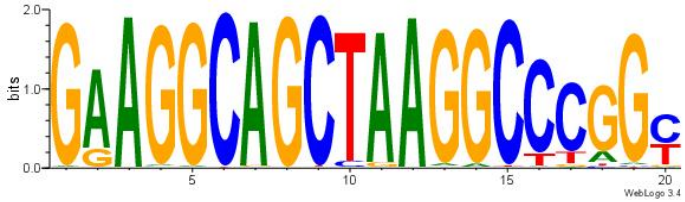

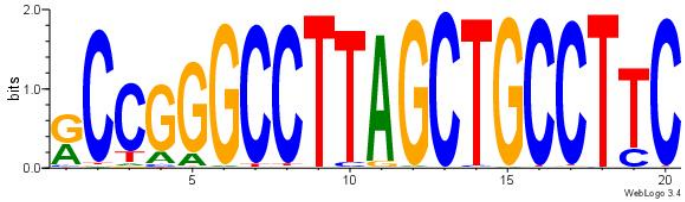

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.135333

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
GCACTCTGTMTCTAGCT---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

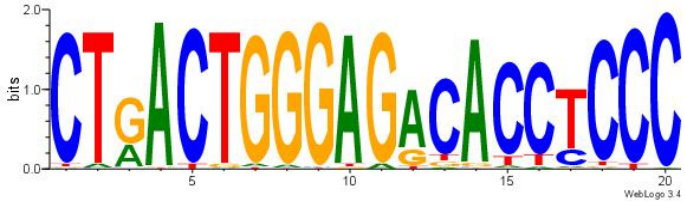

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

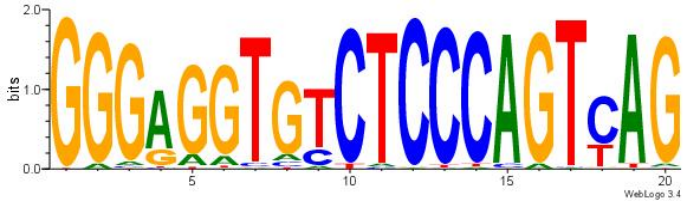

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.135591

Alignment:

```
CTTGCCCAAGGTCACACAGC
AGCTAGAYACAGAGTGC---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

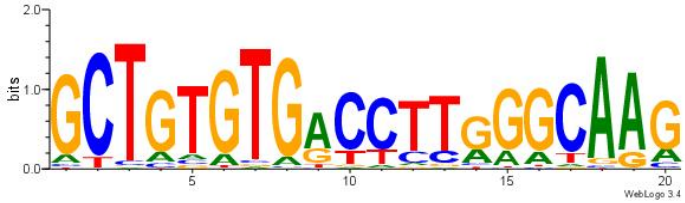

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

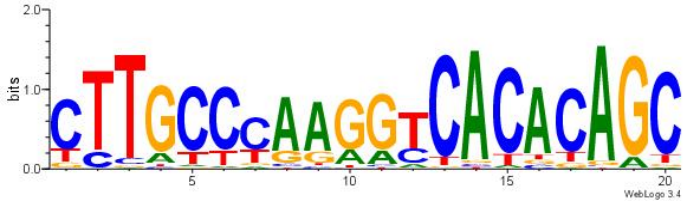

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.13614

Alignment:
GKCTGTACCCCCATTGTAT
AGCTAGAYACAGAGTGC--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

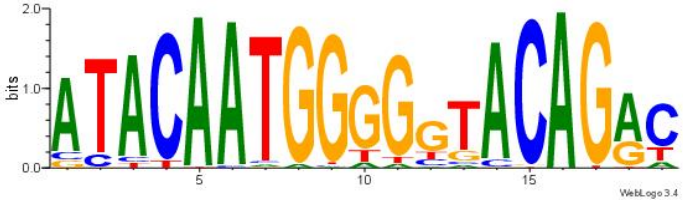

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

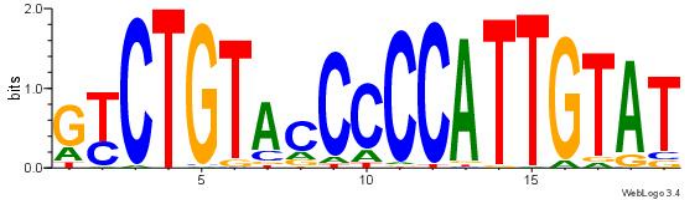

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.136238

Alignment:
GTGTCKGGAGTTTGTTCCTT
--GCACTCTGTMTCTAGCT-

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

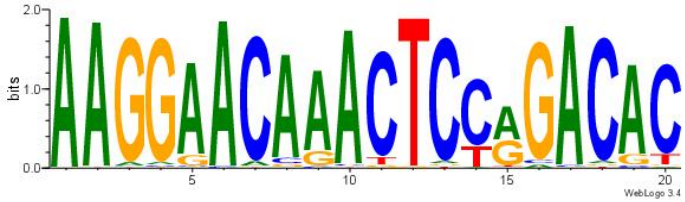

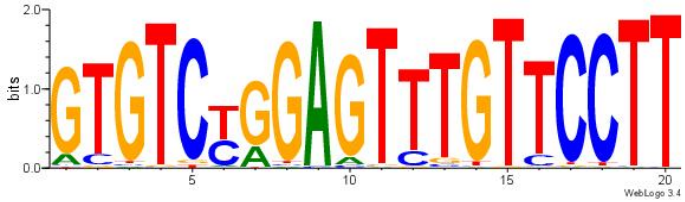

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.136352

Alignment:

```
ACAGGCTTTGTGTGAGCA
-GCACTCTGTMTCTAGCT
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

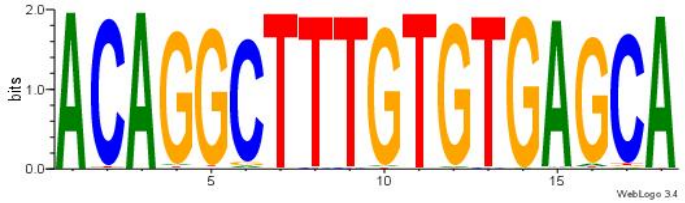

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

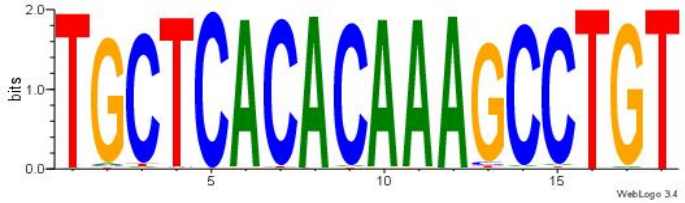

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.136919

Alignment:

```
CTAGACATAAAGGTTCTCCA
--AGCTAGAYACAGAGTGC-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

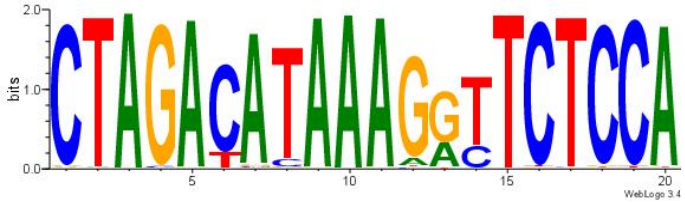

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

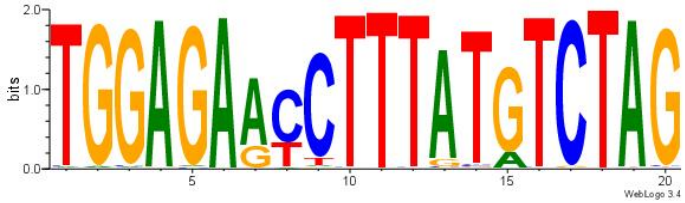

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.136941

Alignment:
GCACATGTAYCCYAGAACTT
GCACTCTGTMTCTAGCT---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

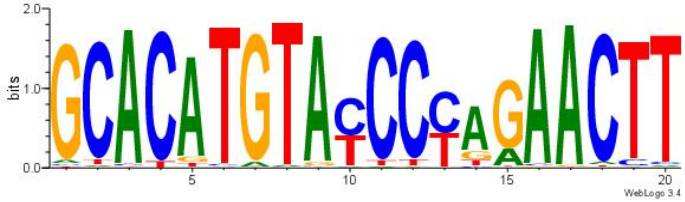

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

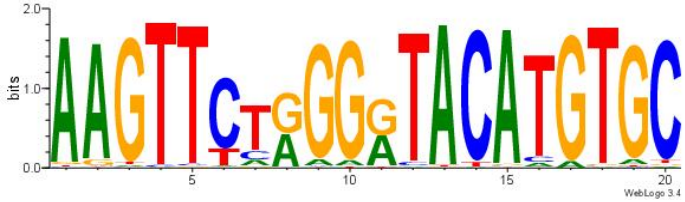

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.137787

Alignment:
CAAGGGTATAYGAGTAGCTG
--GCACTCTGTMTCTAGCT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

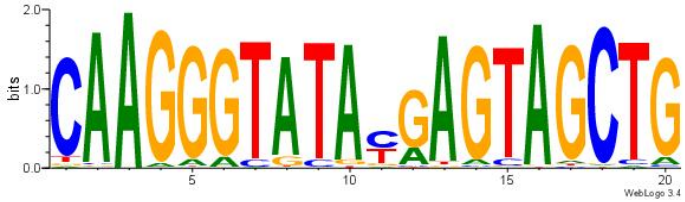

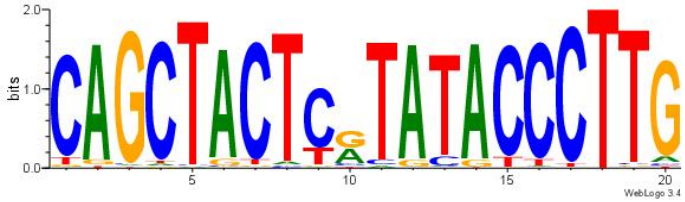

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.137826

Alignment:

```
GTAGACKGGAGCTGTTCCT
--GCACTCTGTMTCTAGCT
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

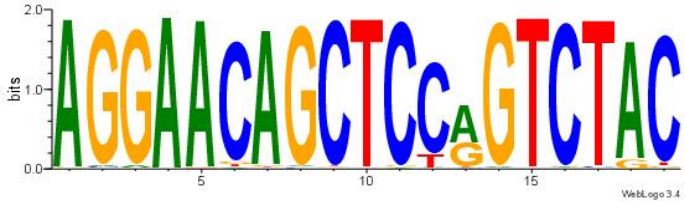

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

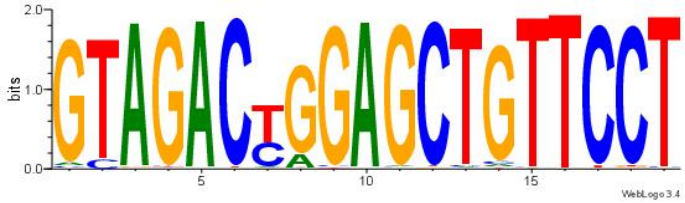

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.137842

Alignment:

```
MGGGATATAATCTCCTGGTG
--GCACTCTGTMTCTAGCT-
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

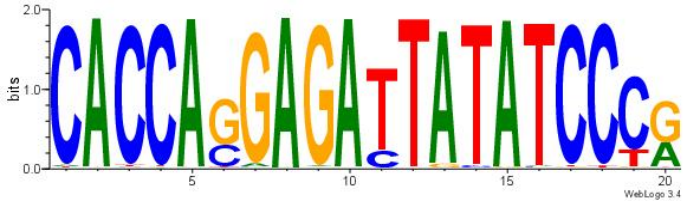

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

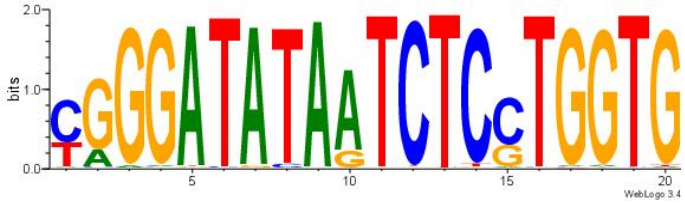

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.138307

Alignment:
TGCCCAGTCTGGAAAGTG
GCACTCTGTMTCTAGCT-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

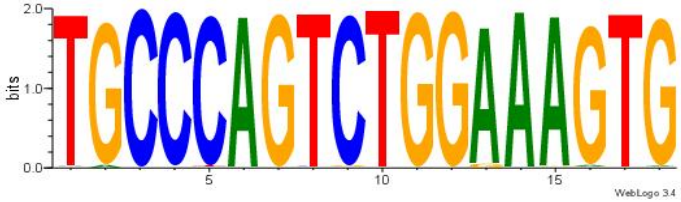

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

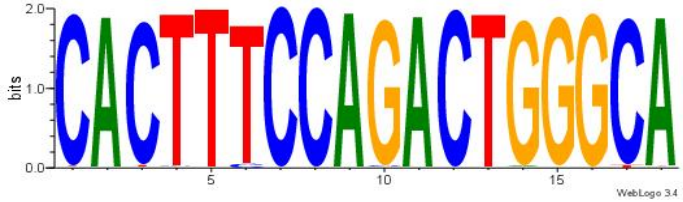

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.138507

Alignment:
AAAMAMMKMATGTTCTCACT
---GCACTCTGTMTCTAGCT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

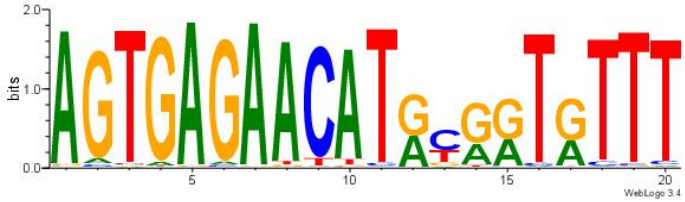

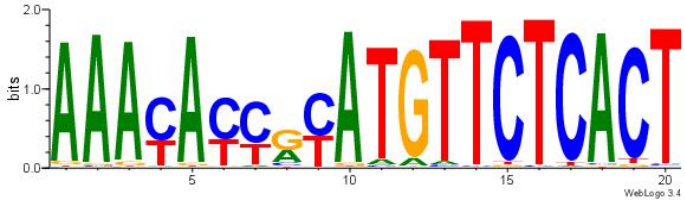

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.138621

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-GCACTCTGTMTCTAGCT--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

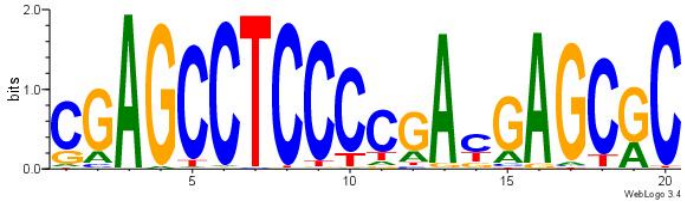

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

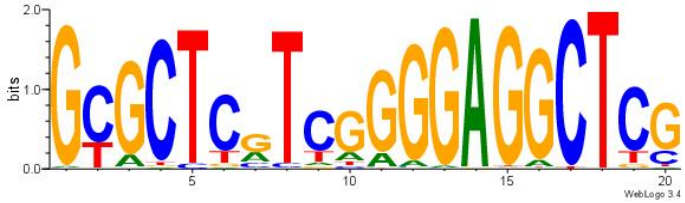

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.138671

Alignment:

```
TTGGTAGGATCCGTGATGCC
--AGCTAGAYACAGAGTGC-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

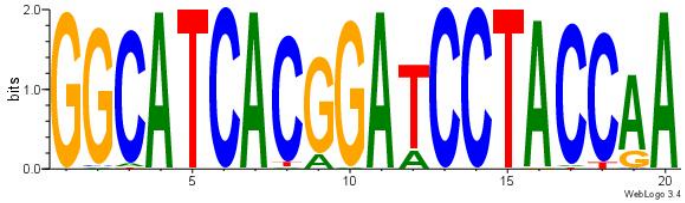

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

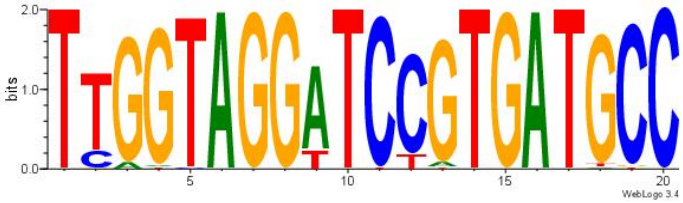

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.138831

Alignment:
GGGATTGTAAATACACCAAT
-GCACTCTGTMTCTAGCT--

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

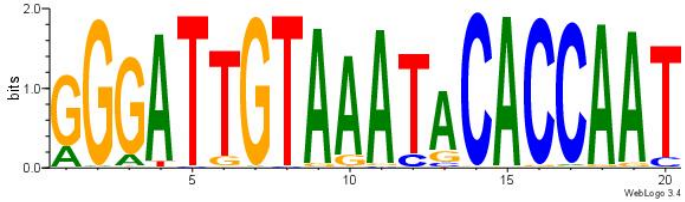

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.13922

Alignment:
ACACACAYACACACACACA
--AGCTAGAYACAGAGTGC

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

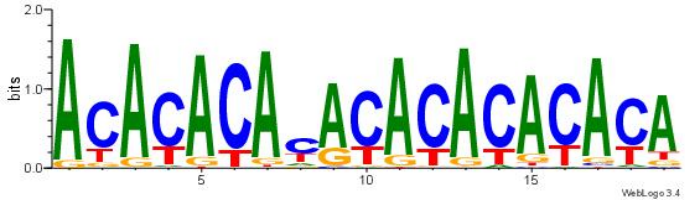

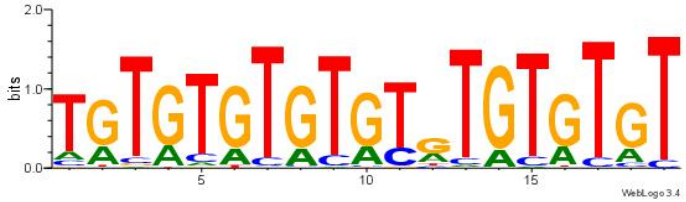

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.13923

Alignment:

```
CCACCACAGCTCAAGGAGGC
GCACTCTGTMTCTAGCT---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

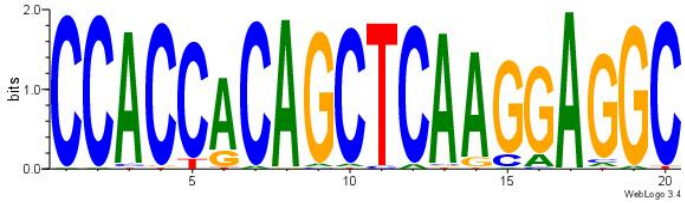

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

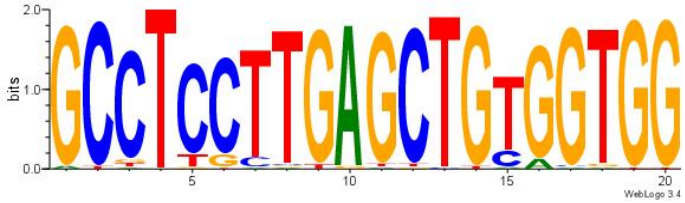

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.139465

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-GCACTCTGTMTCTAGCT--
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

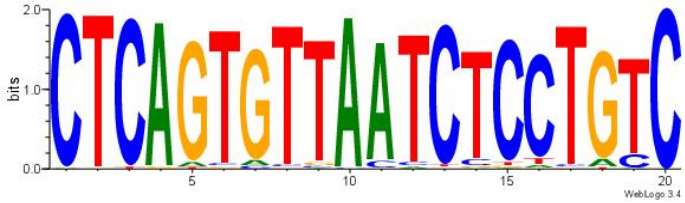

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

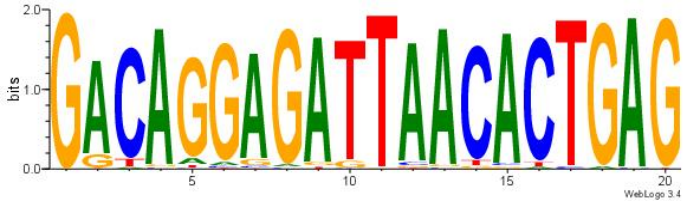

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.139737

Alignment:
GGGTGCAGGMGGGCTGAGT
--AGCTAGAYACAGAGTGC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

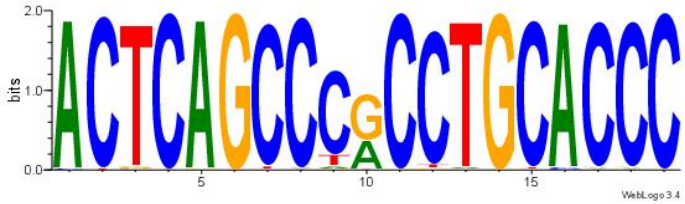

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

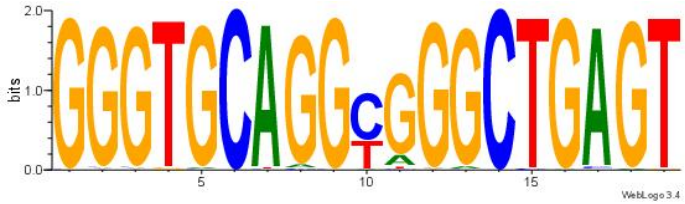

Dataset #: 1 Motif ID: 176 Motif name: Motif 176

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

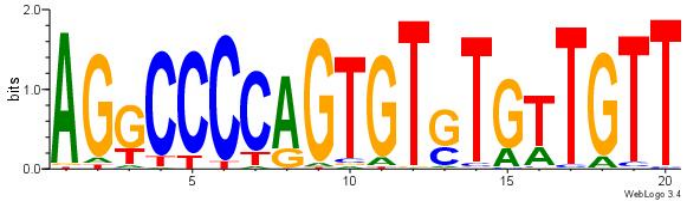

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

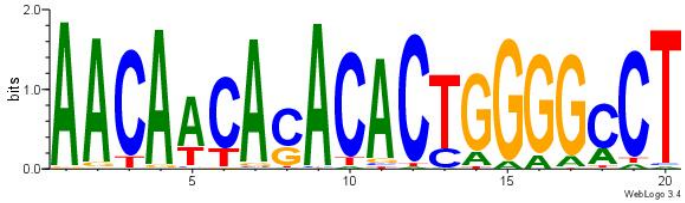

Best Matches for Motif ID 176 (Highest to Lowest)

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.100522

Alignment:

```
AGCTCCCAGCGTGAGCGACG
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

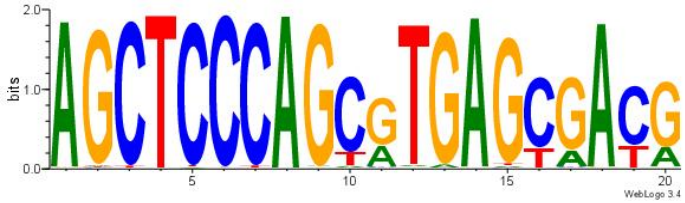

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

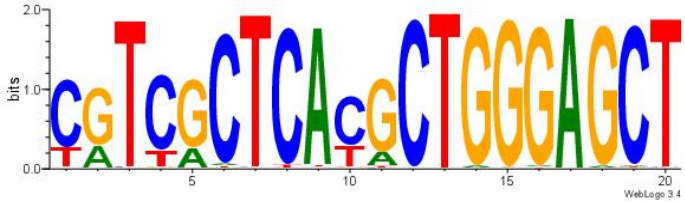

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.103197

Alignment:

TTGTCCCACTGGAAGGTCTT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

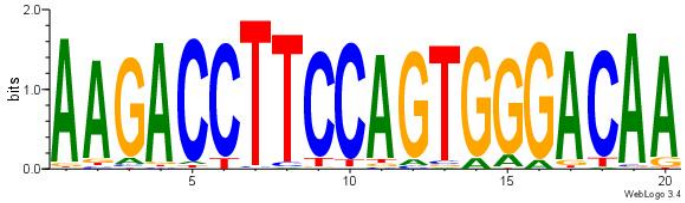

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

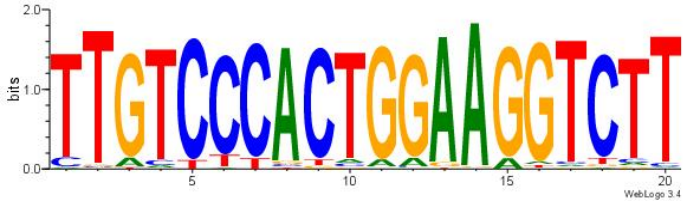

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.106256

Alignment:
AGCCYCTGGYAACCAYYAWT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

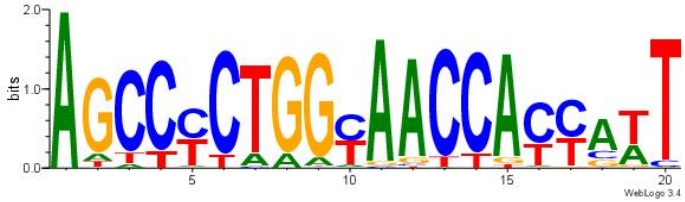

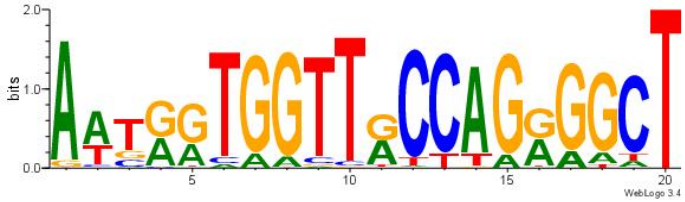

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.108547

Alignment:

```
CCCMKGGCACCCTCAGTCCT
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

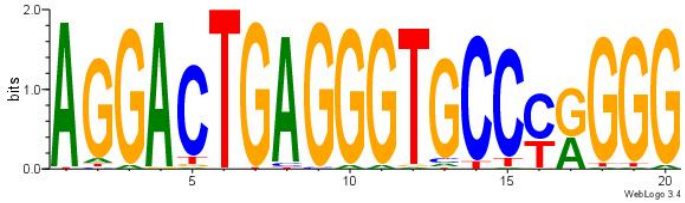

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

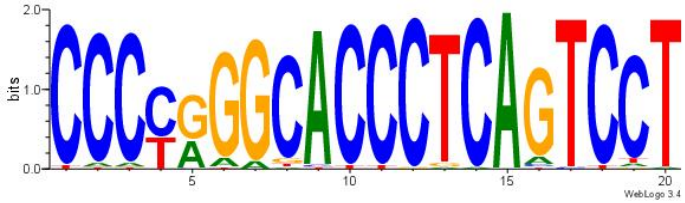

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.115174

Alignment:

```
AAAATCACAAGCATTCCTAT
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

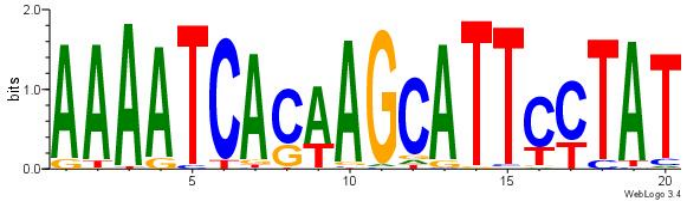

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

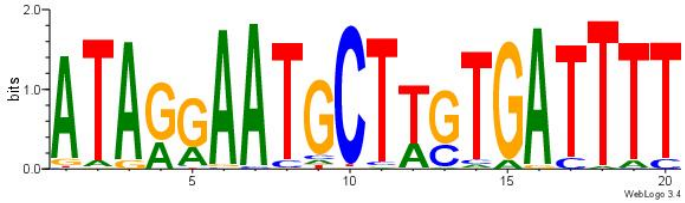

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.115759

Alignment:
AAGTCCAAGATCAAGGTGYY
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

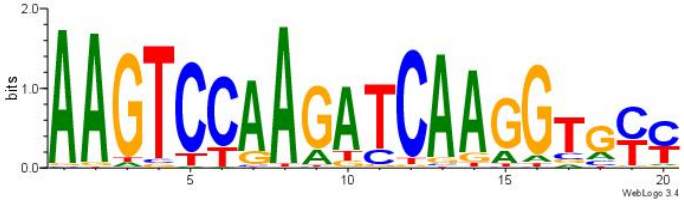

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

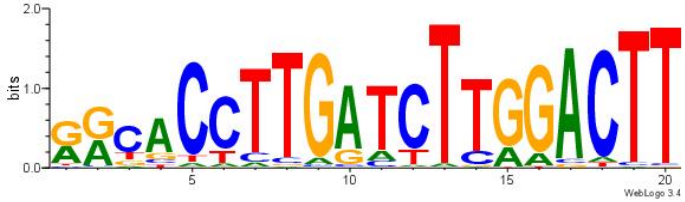

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.118167

Alignment:
AAAAGTCCACAGTCCAAAGT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

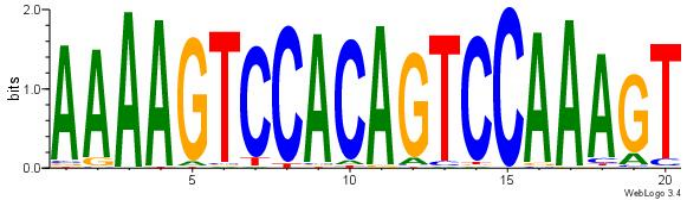

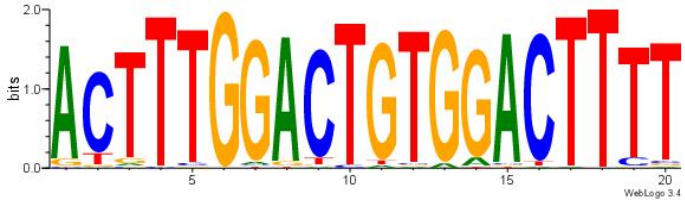

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119693

Alignment:
AGTGACCCGATTTTCCAGGT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

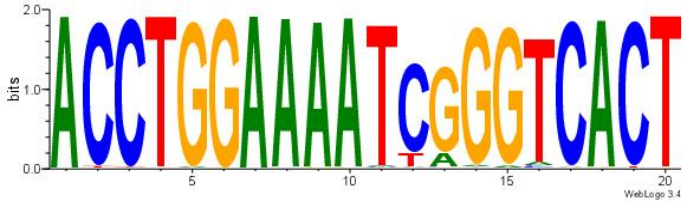

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

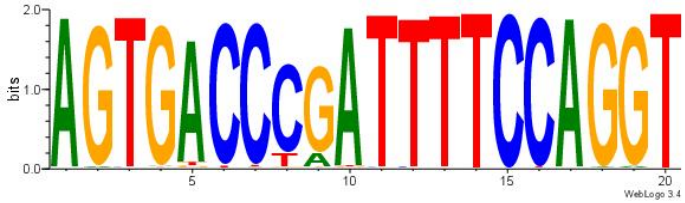

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123541

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

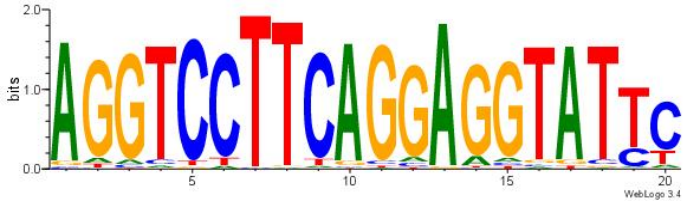

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

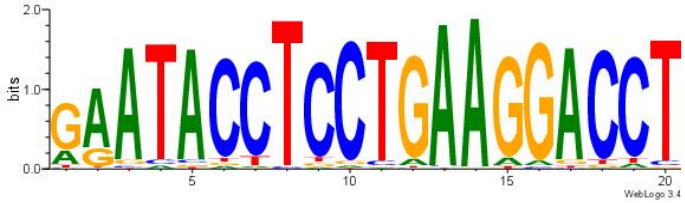

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.123644

Alignment:
ACTCCCTAGTGAGATGAACC
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

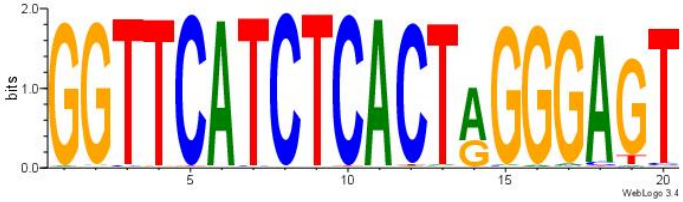

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

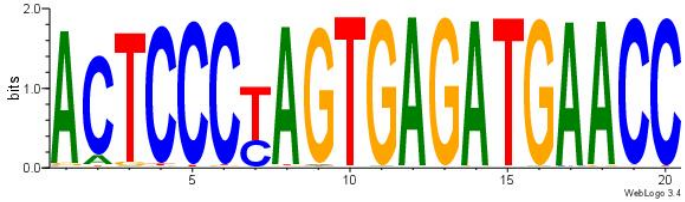

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.12407

Alignment:
TACCTGAGACTGGGTAATTT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

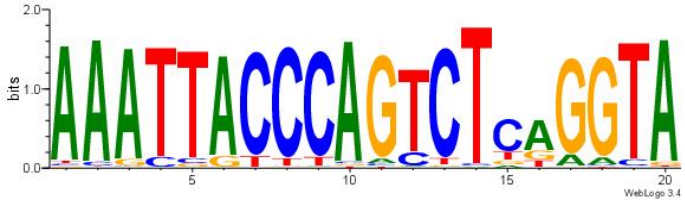

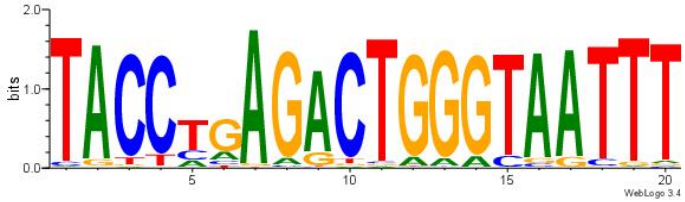

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124212

Alignment:

```
AGAAATCGAGCRCAGCGCCG
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

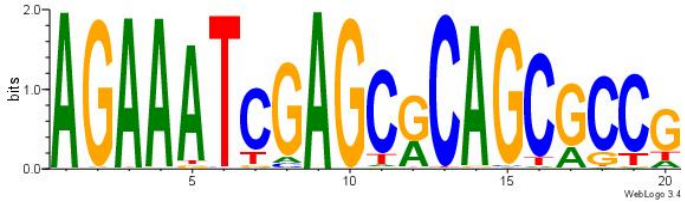

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

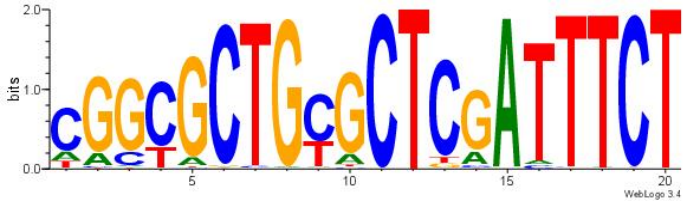

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124377

Alignment:

```
AAAMAMMKMATGTTCTCACT
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

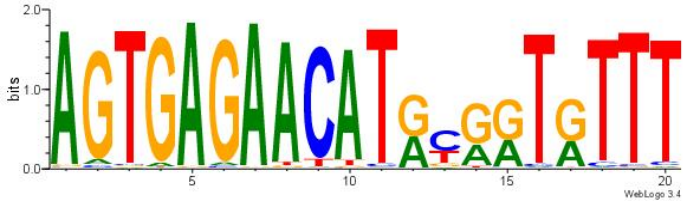

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

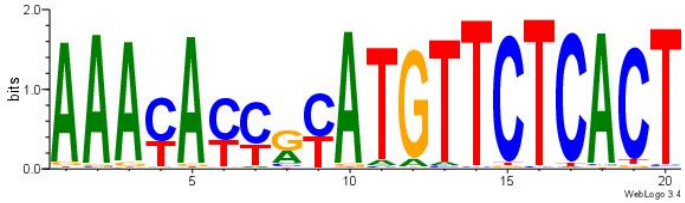

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.125082

Alignment:
GAAHCAACCKAAKTGTCCAT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

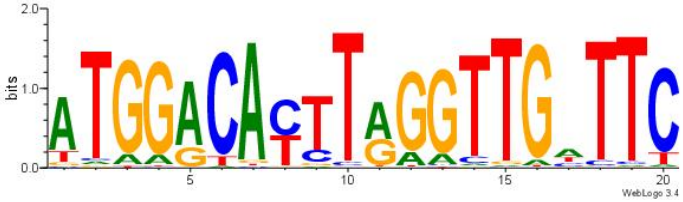

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

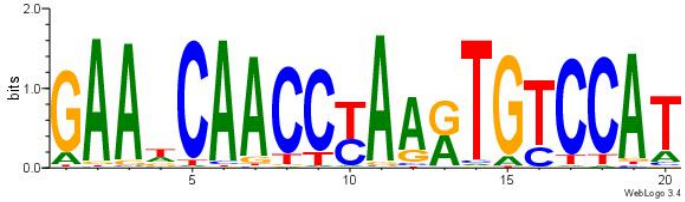

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.125154

Alignment:
ATCRCTTGAGSYCAGGAGKT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

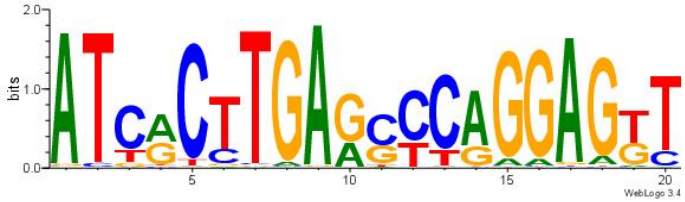

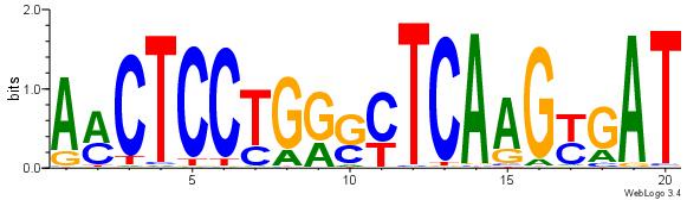

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125993

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

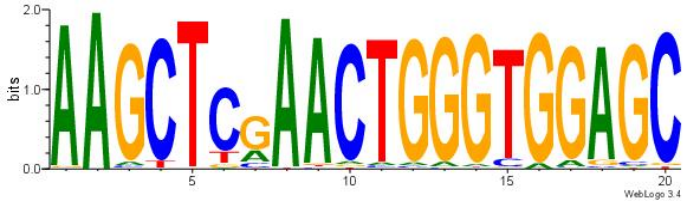

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

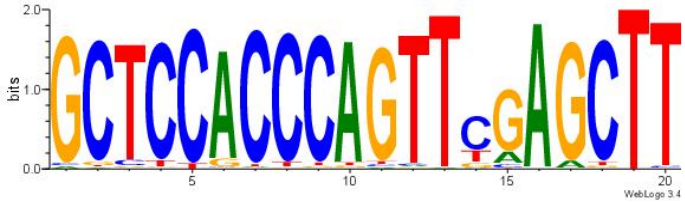

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126364

Alignment:

```
TTCAMTCATGATTTGGCTCT
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

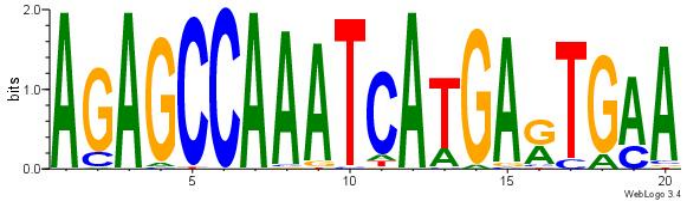

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

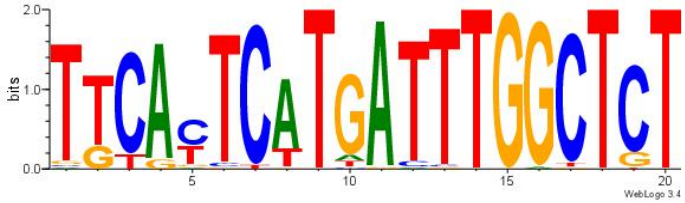

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.129028

Alignment:
GGAGCCGGCTCCCTCAGCTT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

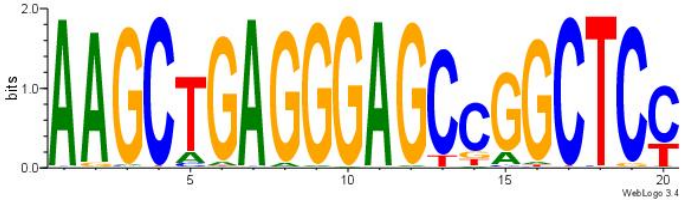

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

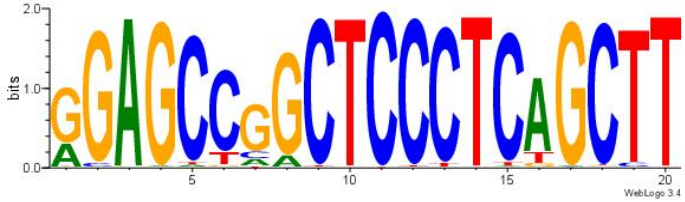

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129098

Alignment:
CACCAGACTCAGGAGCCCAG
AACAACASACACTGGGGCCT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

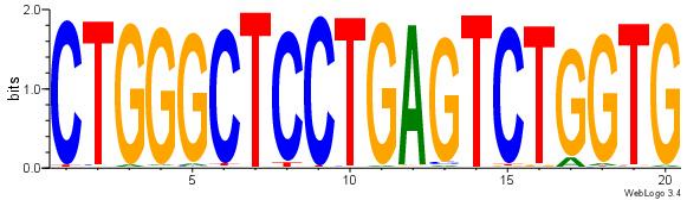

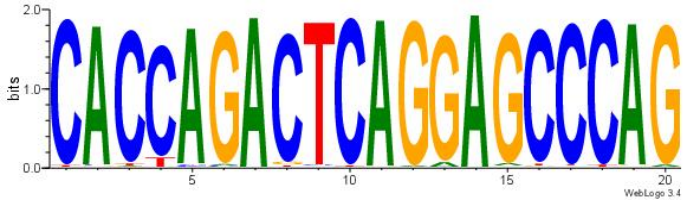

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129299

Alignment:

```
GTGCCAGGCACTGTKCTARG
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

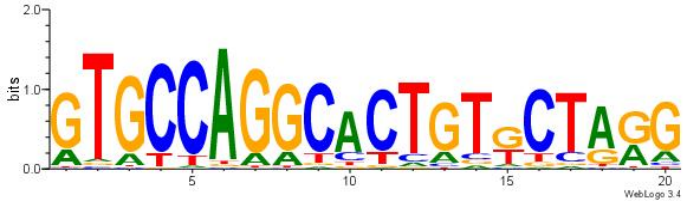

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

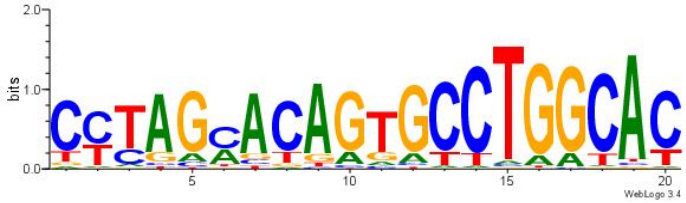

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130518

Alignment:

```
ATCTGACAGGAGGYRGAGCT
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

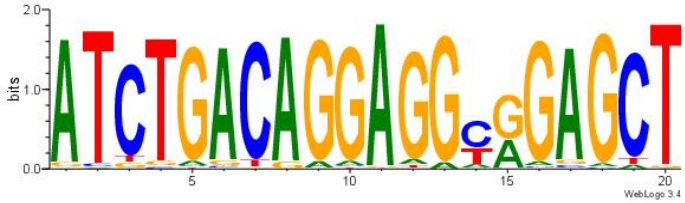

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

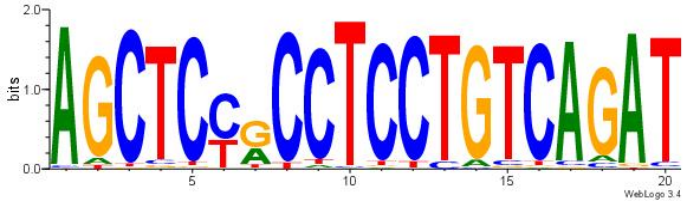

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.130766

Alignment:
CCGCTGCACTGTGGGAGCCC
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

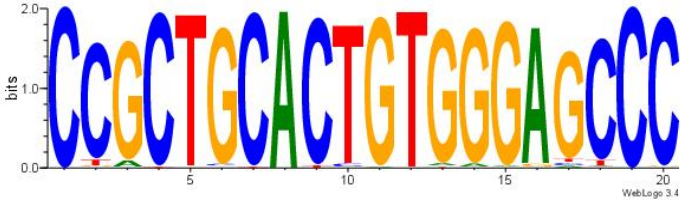

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

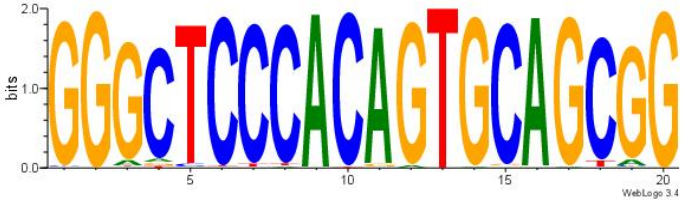

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133434

Alignment:
ATTGATMKCCAGGGTTGATT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

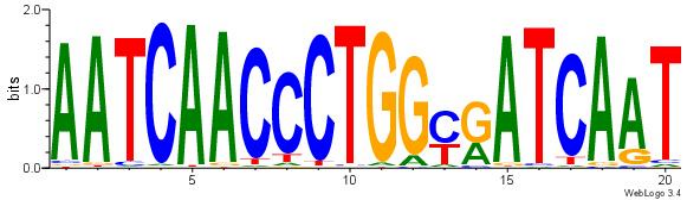

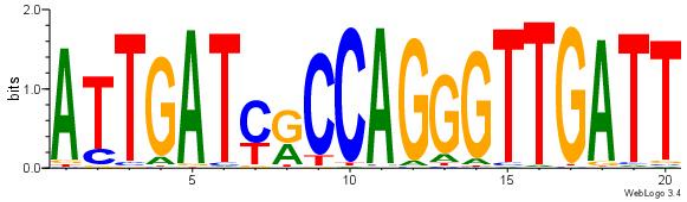

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13387

Alignment:

```
ATGATCCAGCAATYCCACTH
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

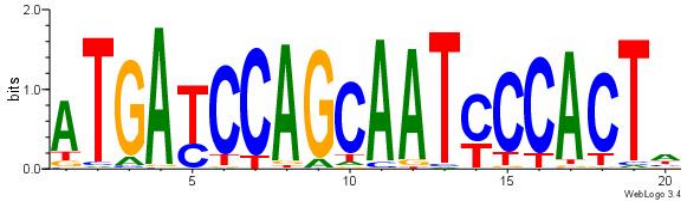

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

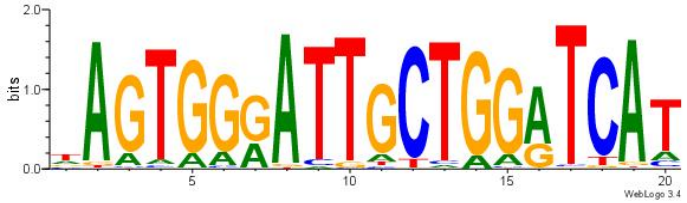

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134417

Alignment:
ATGTGGAGGTGGAAGACAGT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

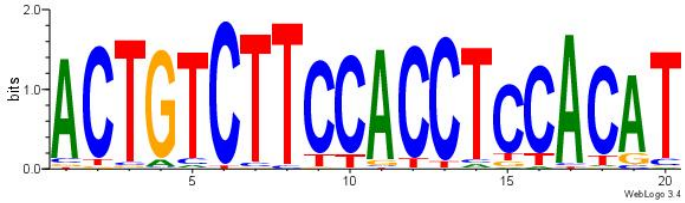

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

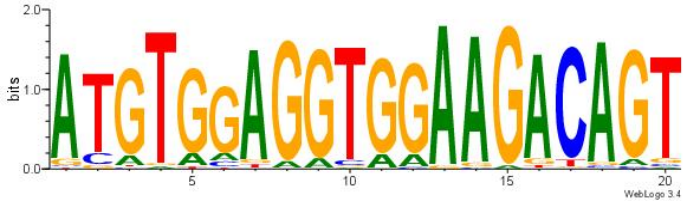

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.136371

Alignment:
GCCKCCCCGTCCGGGAGGGA
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

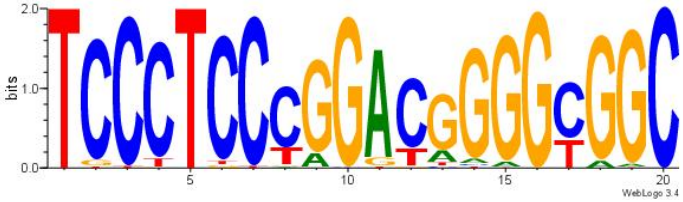

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

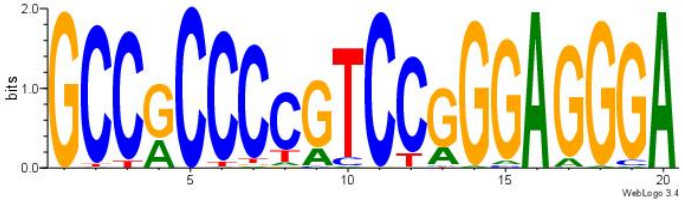

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.13725

Alignment:
GAAAGGGAACTCCCTGACCC
AACAACASACACTGGGGCCT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

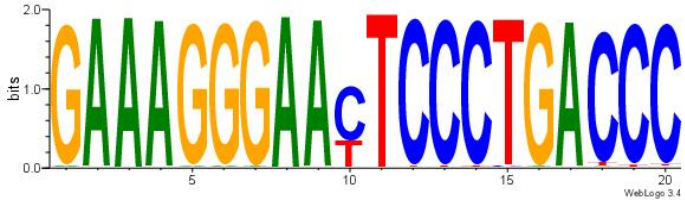

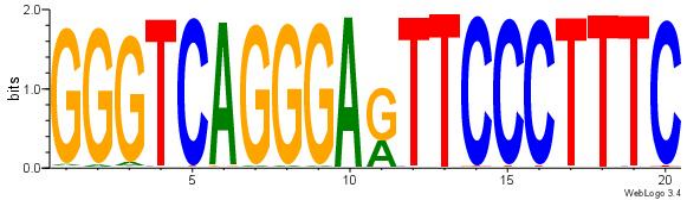

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1383

Alignment:

```
ATGGCTGAATAKTATTCCAT
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

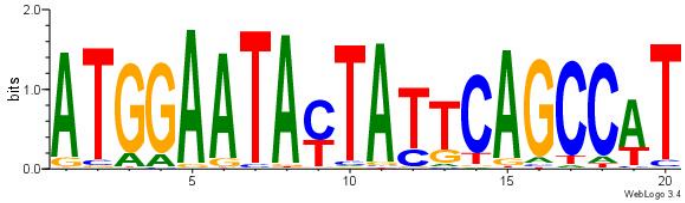

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

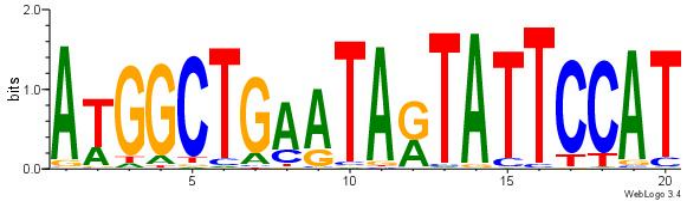

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138339

Alignment:
TAAAAGACTACAWATTGGGT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

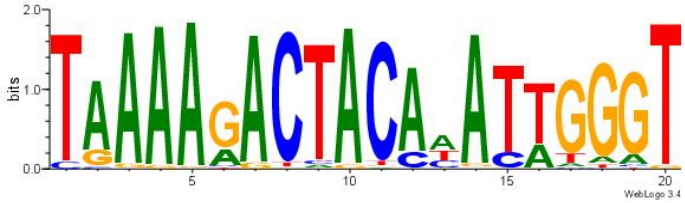

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

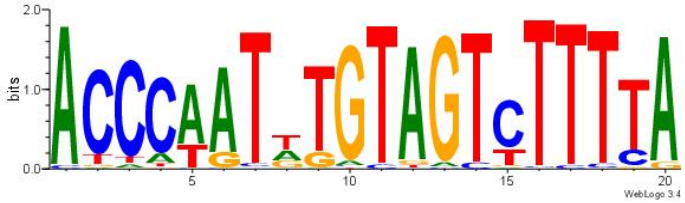

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138532

Alignment:
GAAACTGCTTTGTGATGTGT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

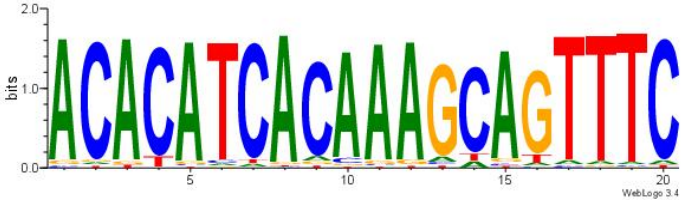

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

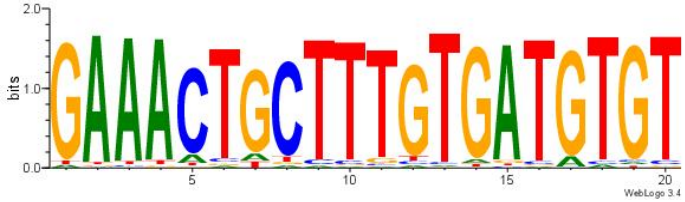

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.139594

Alignment:
MTCCTCCAGACCCCAGAATG
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

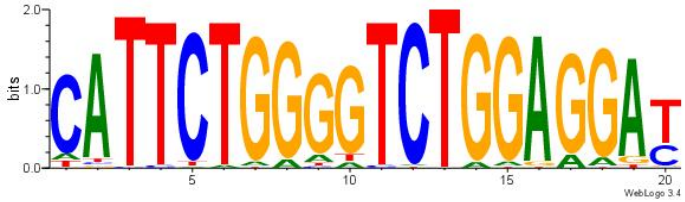

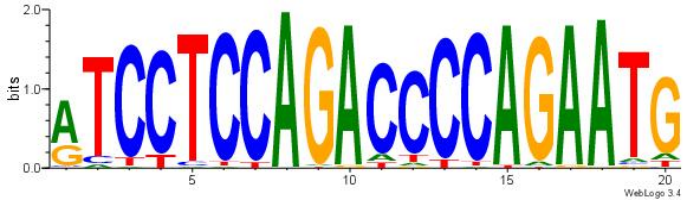

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141986

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

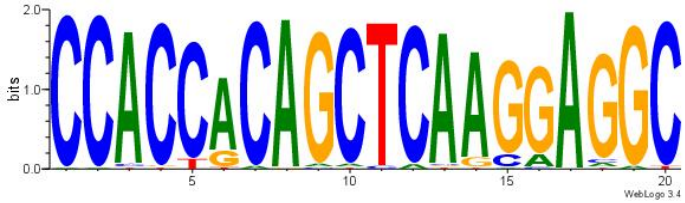

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

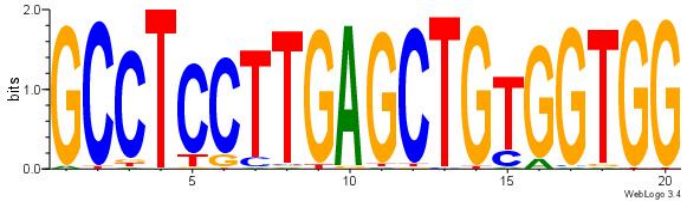

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143824

Alignment:

```
GCTGTGTGACCTTGGGCAAG
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

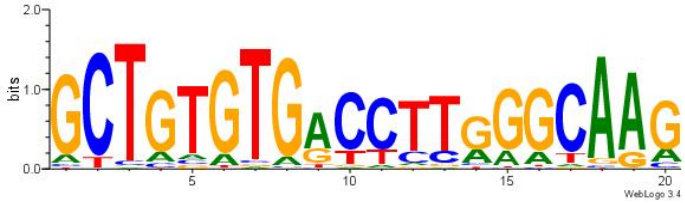

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

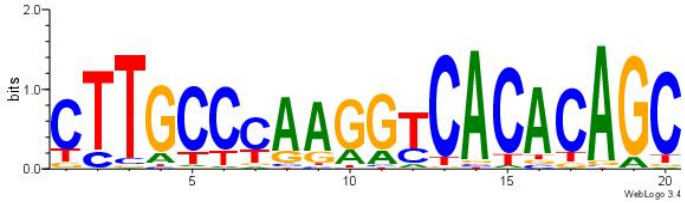

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14405

Alignment:
TAGATAATAGCTCCAGCTTT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

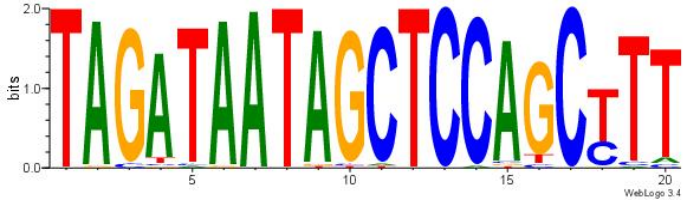

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

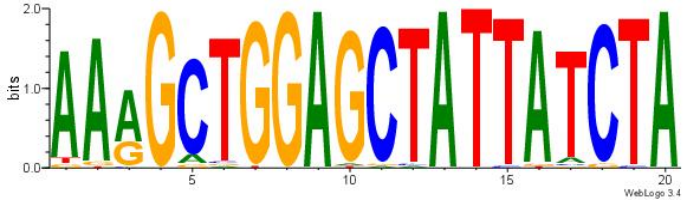

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144217

Alignment:
GCACATGTAYCCYAGAACTT
AACAACASACACTGGGGCCT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

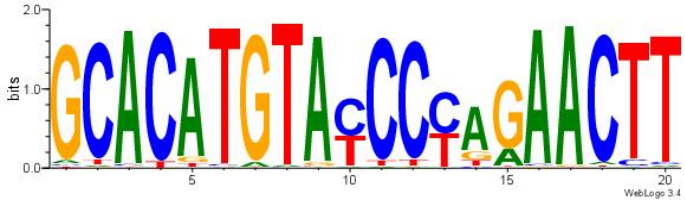

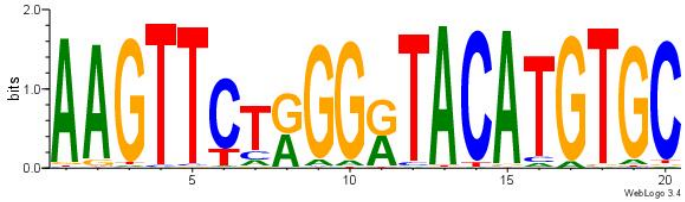

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144466

Alignment:

```
CCCATGCAAGTCYRAAATCC
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

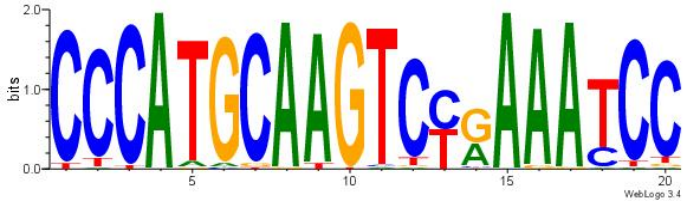

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

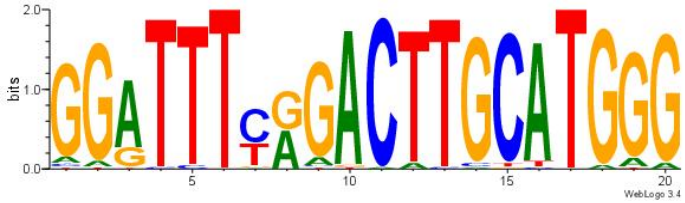

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144477

Alignment:
GTKTMTATMTACCACATTTT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

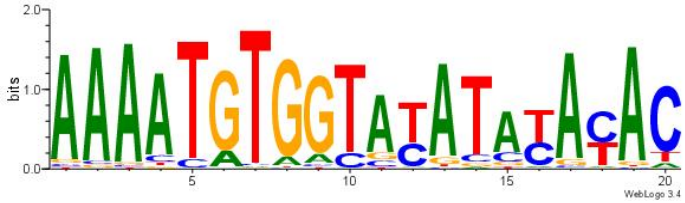

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

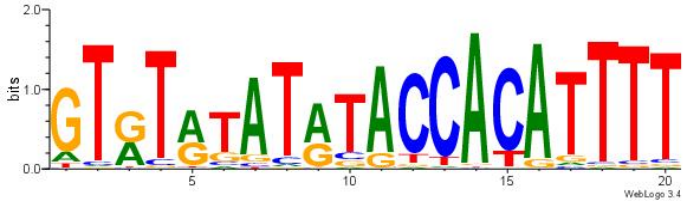

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.144682

Alignment:
GGATCCACTGGGTGAAGCCA
AACAACASACACTGGGGCCT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

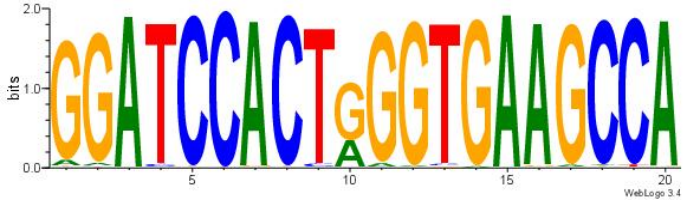

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

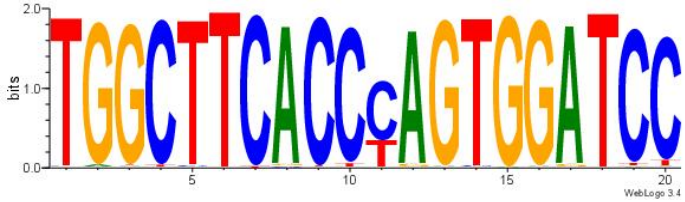

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144841

Alignment:
TCKMGCCACTGCACTCCAGC
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

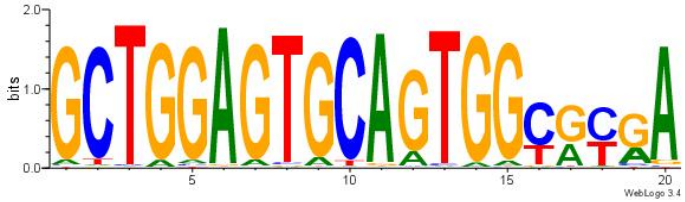

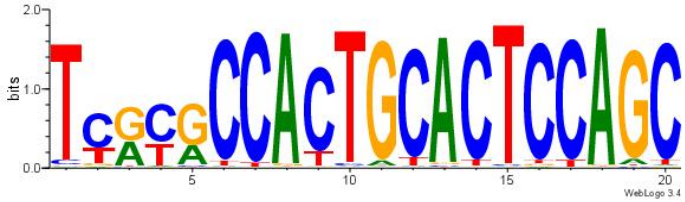

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145679

Alignment:
TGGAGAACCTTTATGTCTAG
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

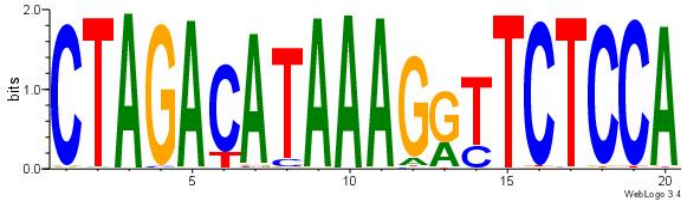

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

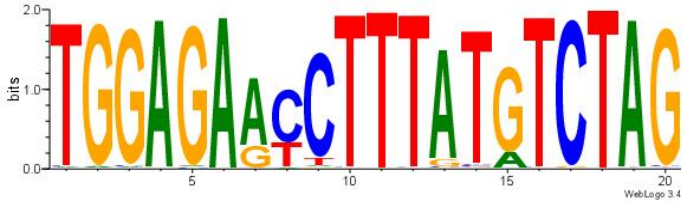

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145963

Alignment:

AGTAGGTGCTCARTAAATRB

AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

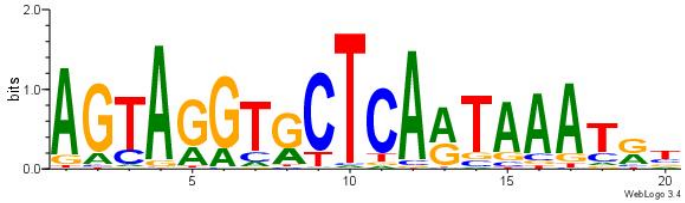

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

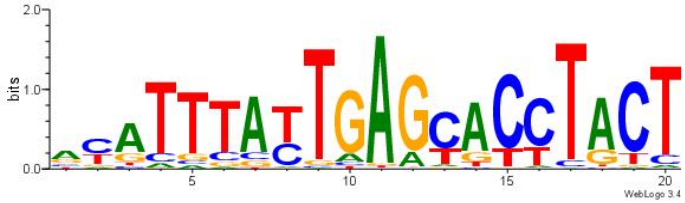

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.146042

Alignment:
GTGGCCCTCTTCTCACAGCT
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

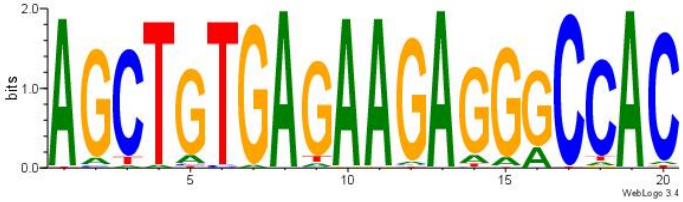

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

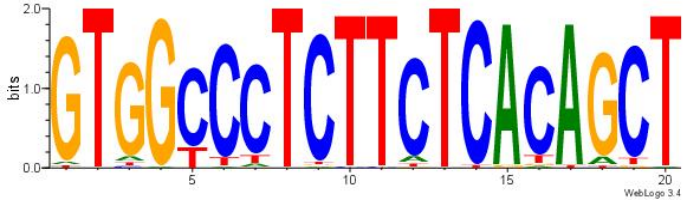

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146989

Alignment:
TTGGTAGGATCCGTGATGCC
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

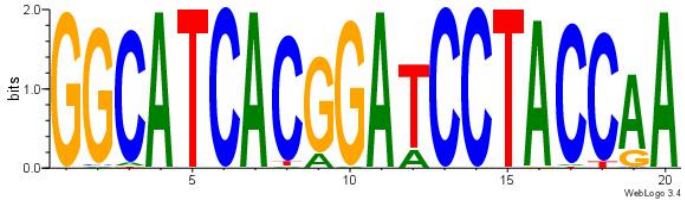

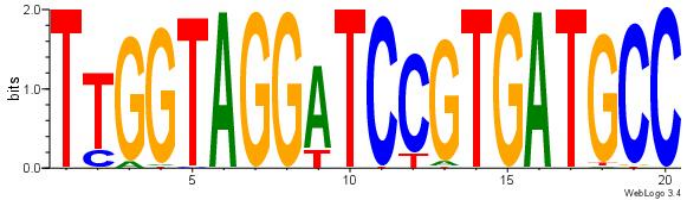

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147675

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
AACAACASACACTGGGGCCT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

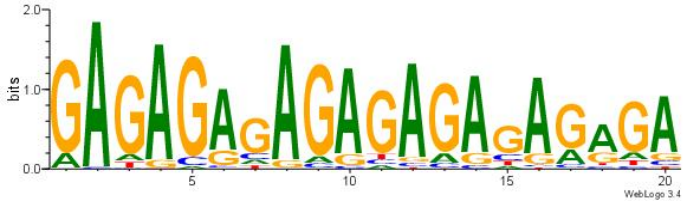

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

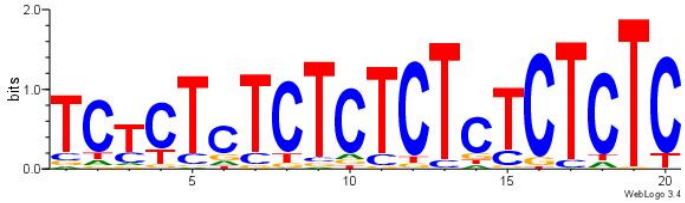

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148387

Alignment:
MGTCTMKCTCTGTKGCCCAG
AACAACASACACTGGGGCCT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

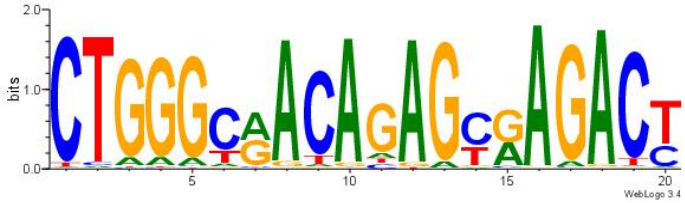

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

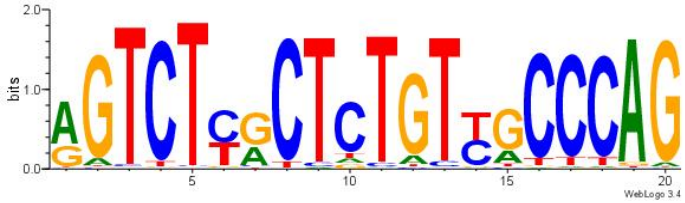

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148722

Alignment:
MGGGATATAATCTCCTGGTG
AACAACASACACTGGGGCCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

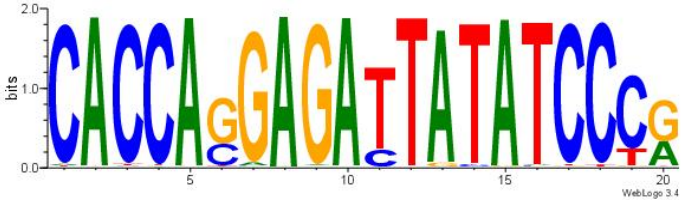

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

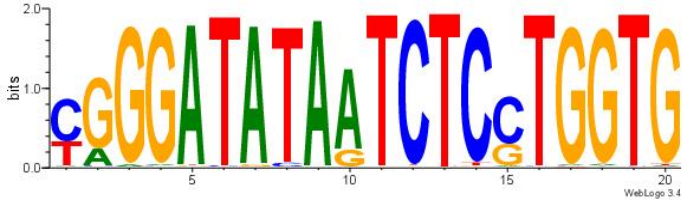

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149257

Alignment:
AAGGAACAAACTCCRGACAC
AACAACASACACTGGGGCCT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

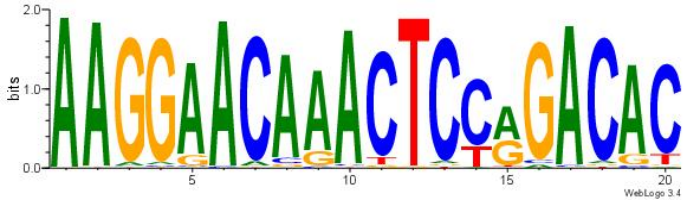

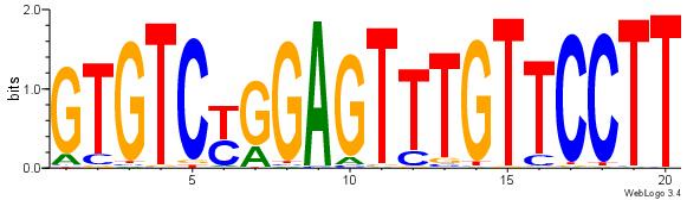

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149856

Alignment:

```
GTTATTAATTGGCCTAATTT
AGGCCCCAGTGTSTGTTGTT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

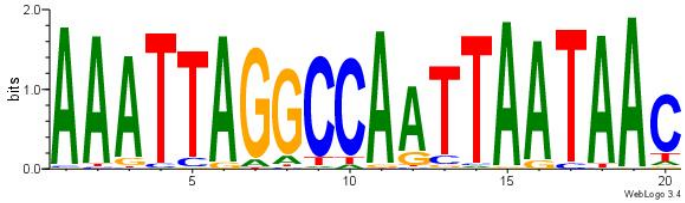

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15118

Alignment:

CTCCAGKTMCATCCATGTTG
AACAACASACACTGGGGCCT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

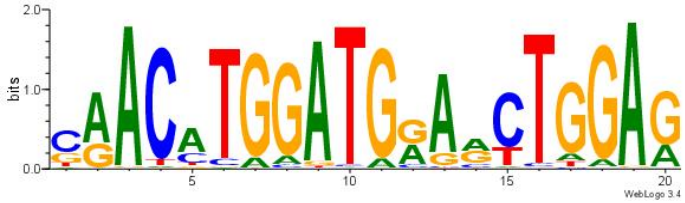

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

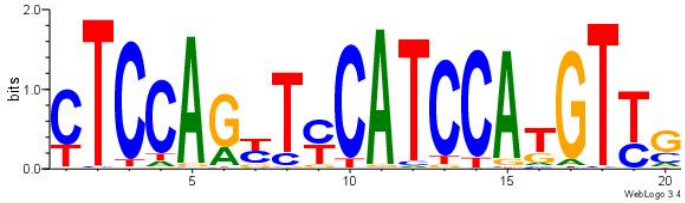

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151416

Alignment:
AAGCAGGGCGAGGCATTGCC
AGGCCCCAGTGTSTGTTGTT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

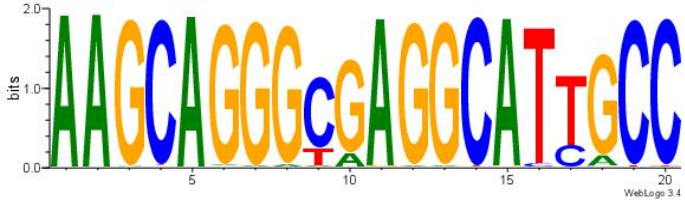

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

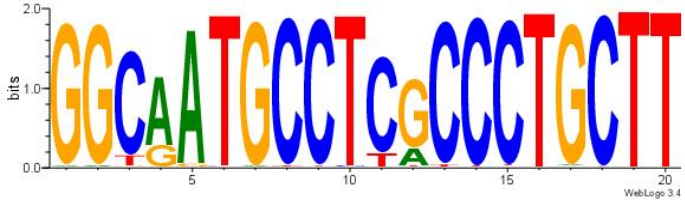

Dataset #: 1 Motif ID: 177 Motif name: Motif 177

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

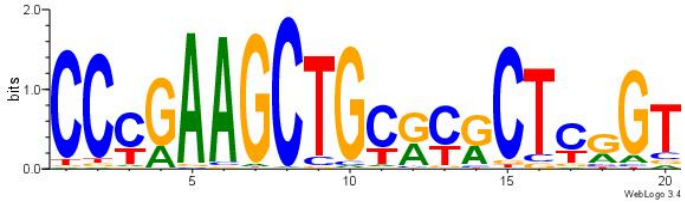

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

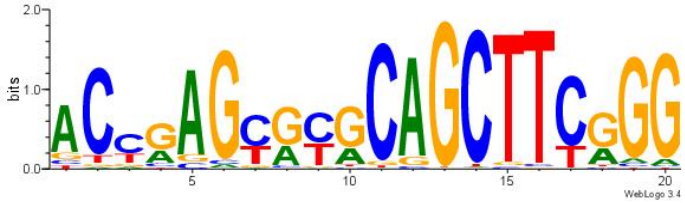

Best Matches for Motif ID 177 (Highest to Lowest)

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0760829

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

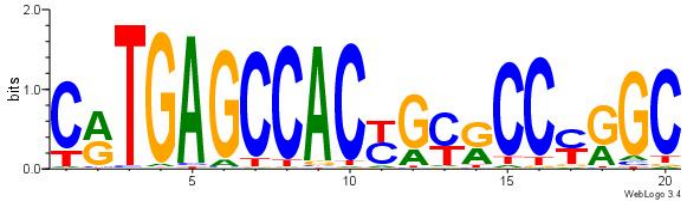

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

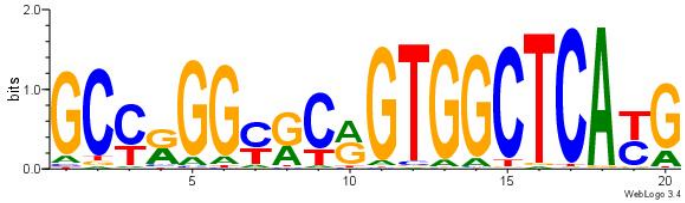

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.104166

Alignment:

GACTGGCAGGCAGCTCCACC
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

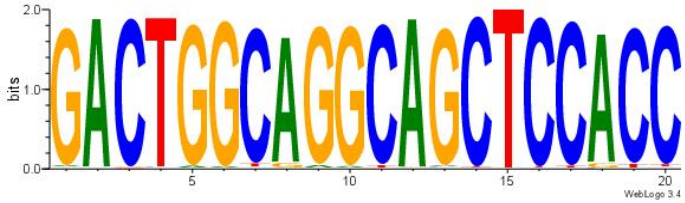

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

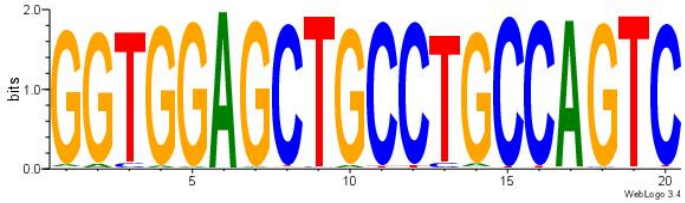

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.104438

Alignment:
TAAAAGACTACAWATTGGGT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

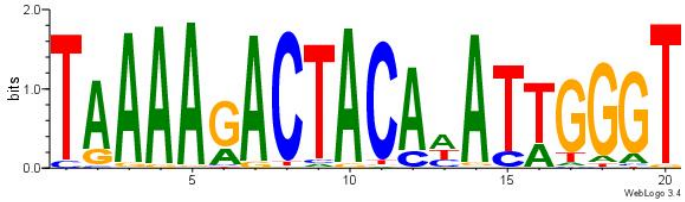

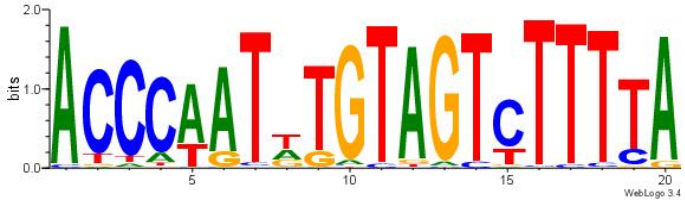

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106729

Alignment:

```
AATGAKATCATGTCYTTTGC
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

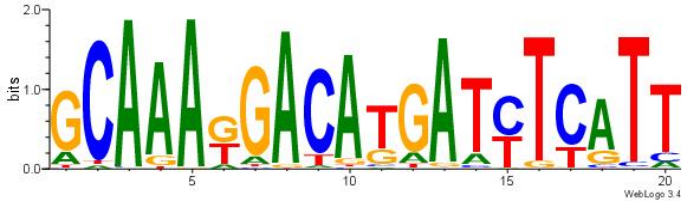

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

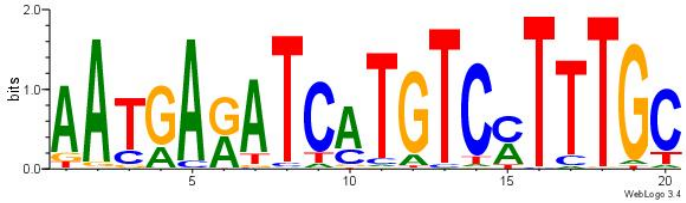

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.107691

Alignment:

```
TCCAAATGGGAGAAATTGGC
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

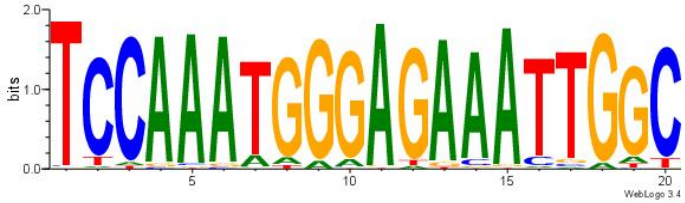

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

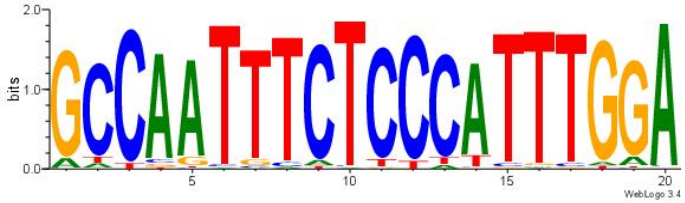

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.109526

Alignment:
AATCAACCCTGGYRATCAAT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

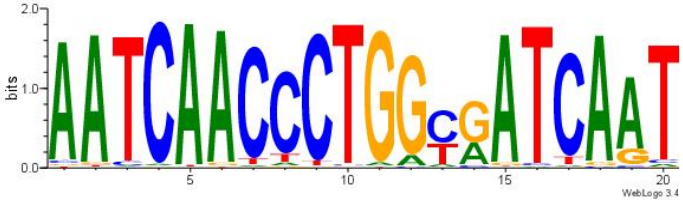

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

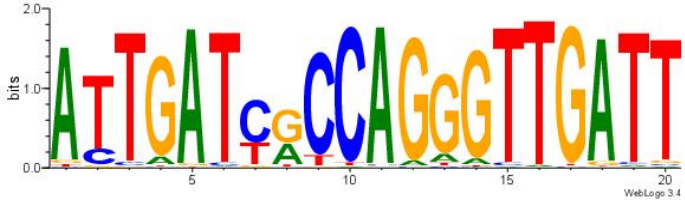

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.112391

Alignment:
GGCAATGCCTCGCCCTGCTT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

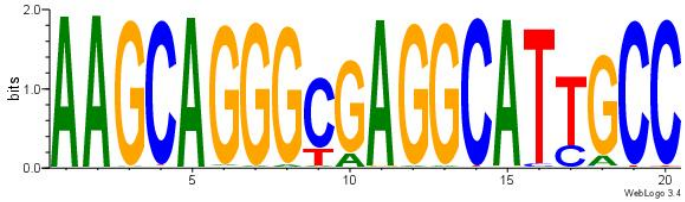

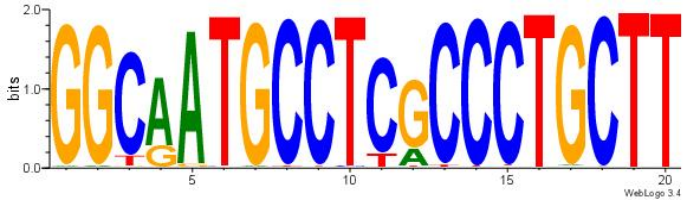

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.114357

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

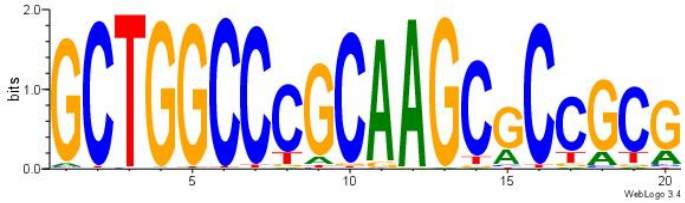

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

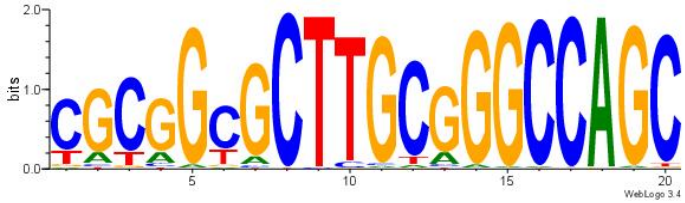

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116252

Alignment:
GCTGTGTGACCTTGGGCAAG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

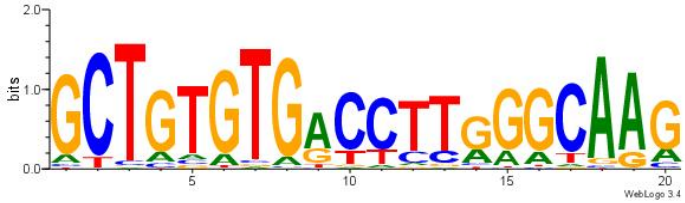

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

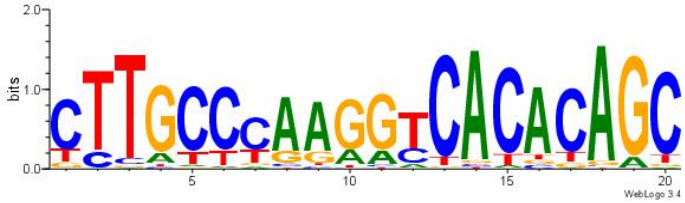

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.116318

Alignment:
TGCTGGAGGTCCACTCCAGA
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

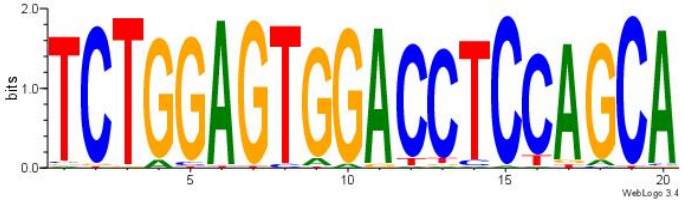

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

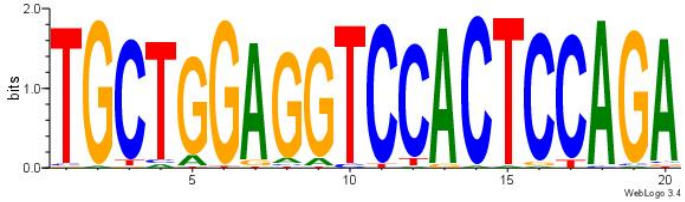

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.116881

Alignment:
VMATTTAKTGAGCACCTACT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

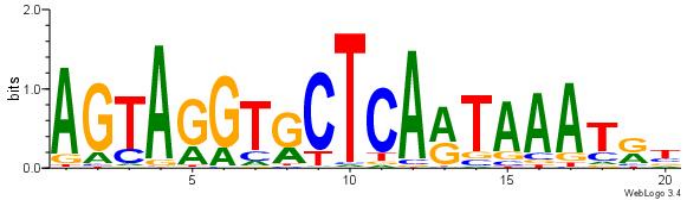

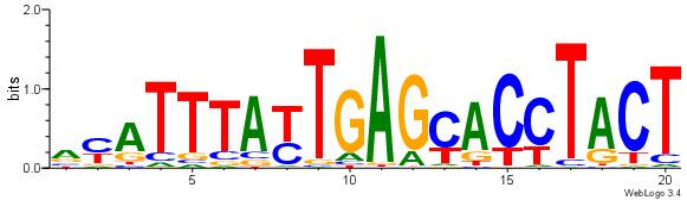

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.119198

Alignment:

```
GAAACTGCTTTGTGATGTGT
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

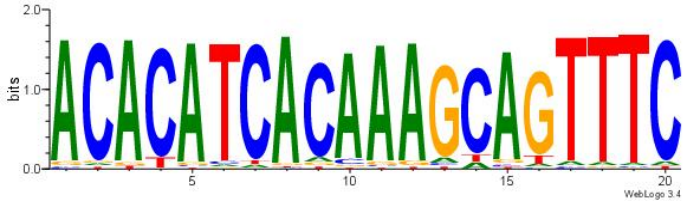

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

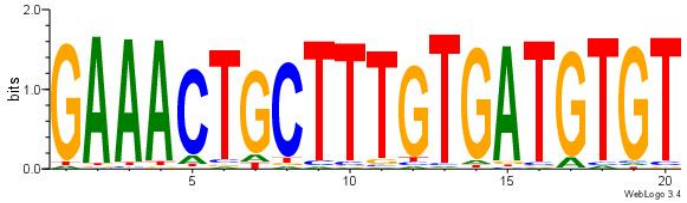

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125315

Alignment:

CTCCAGKTMCATCCATGTTG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

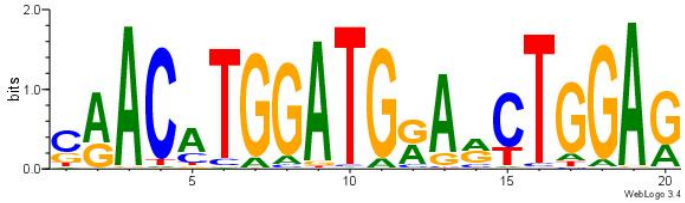

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

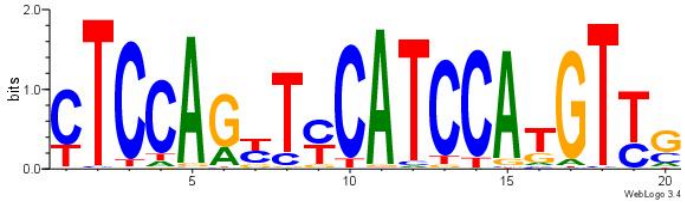

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.126002

Alignment:
GCTGGAGTGCAGTGGCRYGA
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

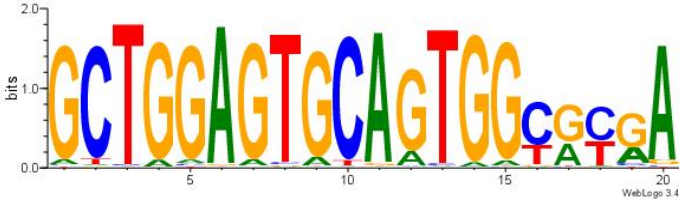

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

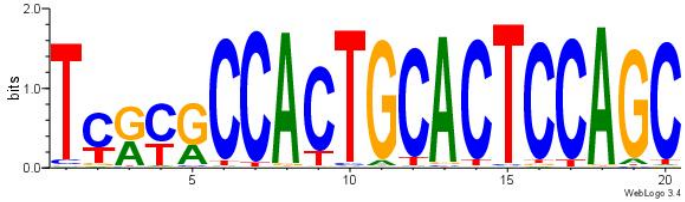

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.126021

Alignment:
CCTGCCATTGCYSAGGCTTG
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

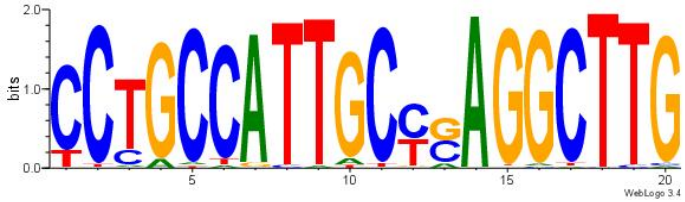

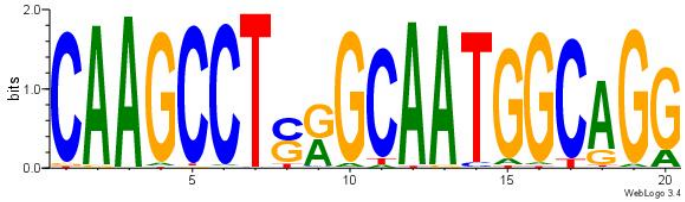

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.126066

Alignment:
CTCCTGCCTCAGCCTCCCRA
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

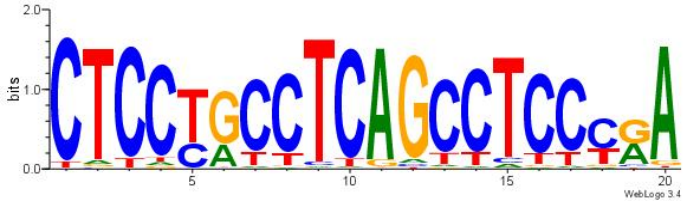

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

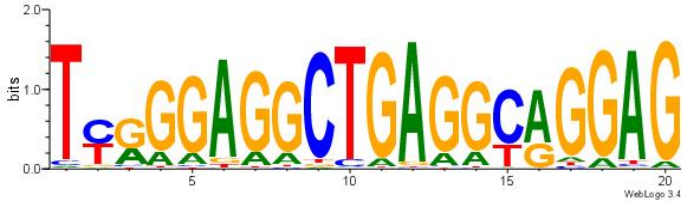

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12619

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

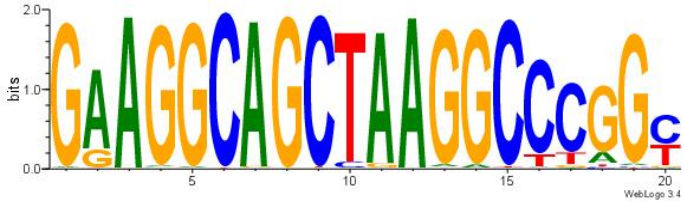

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

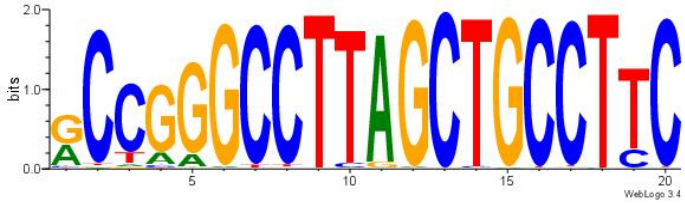

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.12664

Alignment:
AGTGAGAACATRYRRTRTTT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

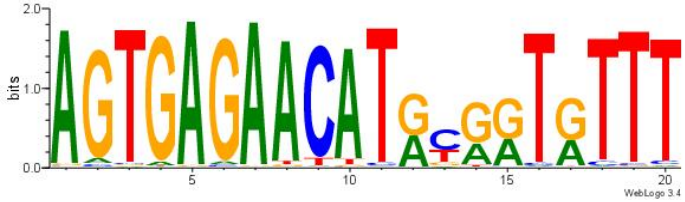

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

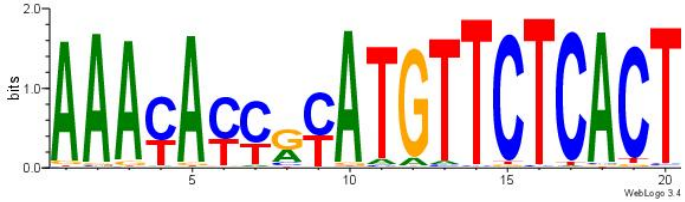

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.129029

Alignment:
ACCKTCGCGGTGAGTGTTAC
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

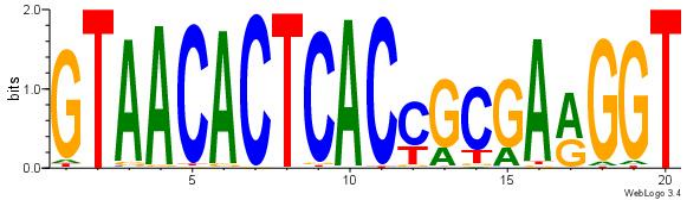

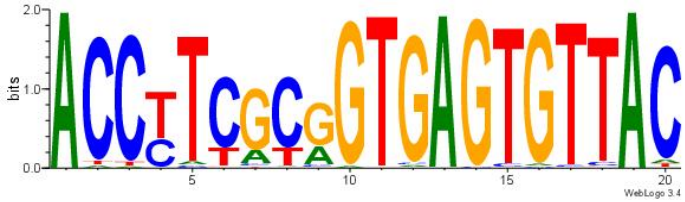

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129846

Alignment:

```
GACAGGAGATTAACACTGAG
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

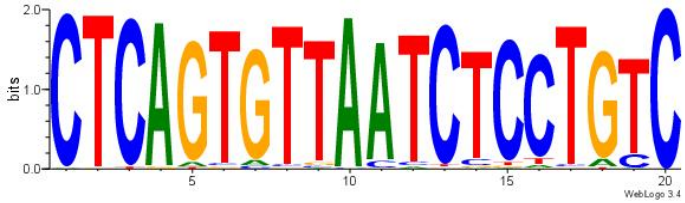

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

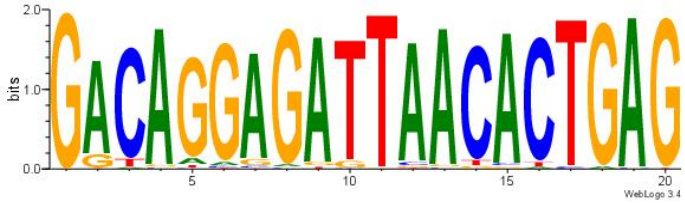

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129891

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

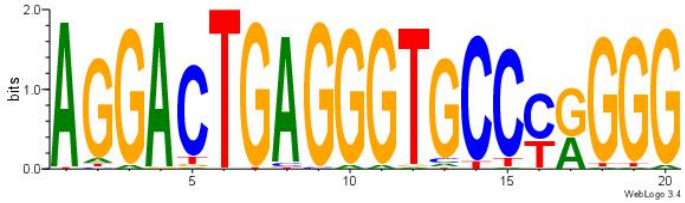

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

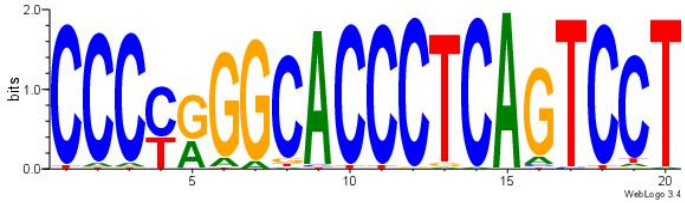

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.130235

Alignment:
GCCKCCCCGTCCGGGAGGGA
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

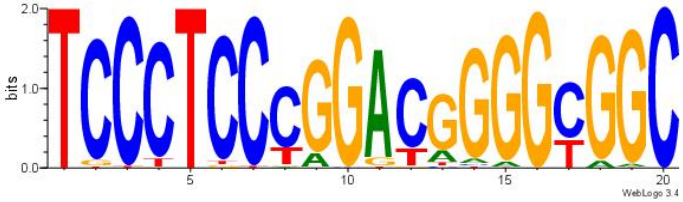

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

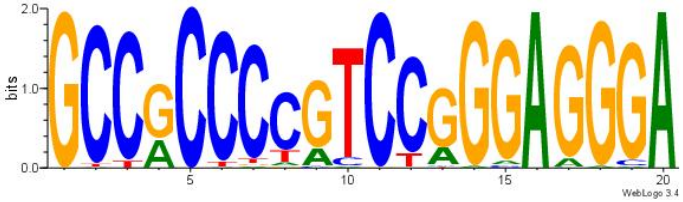

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130813

Alignment:
GCCAGTCACAAAARGACAMA
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

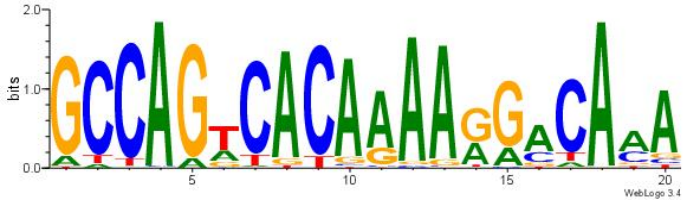

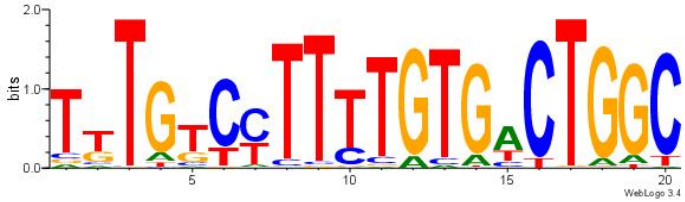

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132107

Alignment:

```
GAAHCAACCKAAKTGTCCAT
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

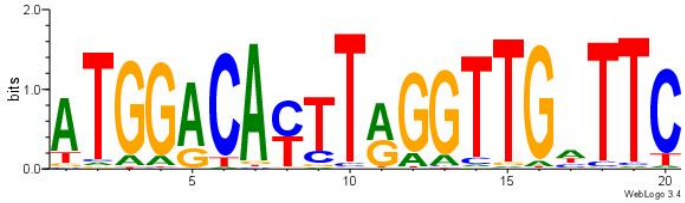

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

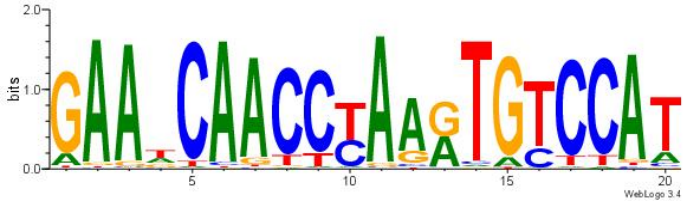

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132424

Alignment:

```
AGTGACCCGATTTTCCAGGT
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

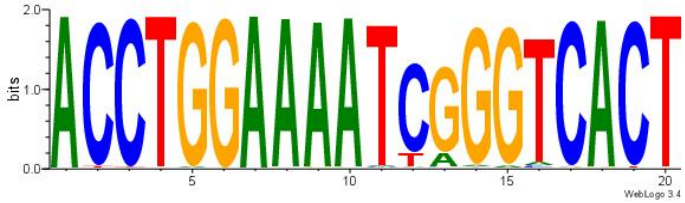

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

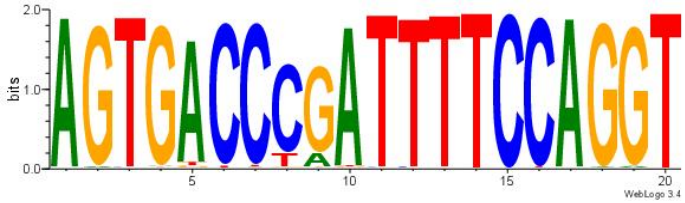

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132507

Alignment:
CGGCGCTGMGCTCGATTTCT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

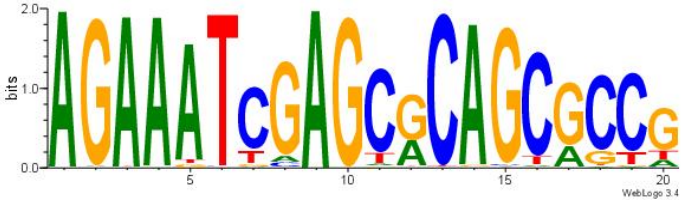

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

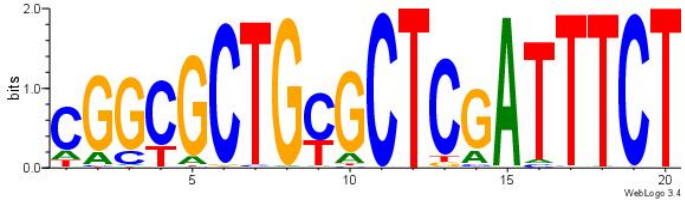

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.132569

Alignment:
GTGCCAGGCACTGTKCTARG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

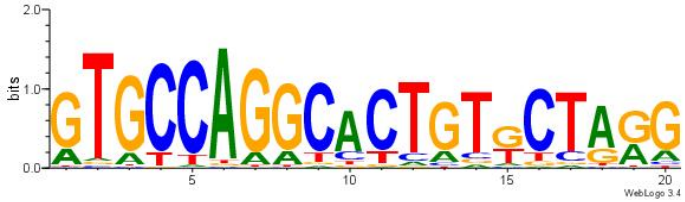

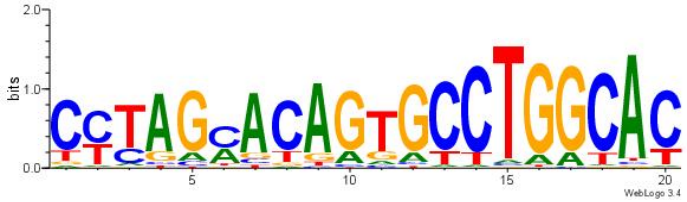

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132644

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

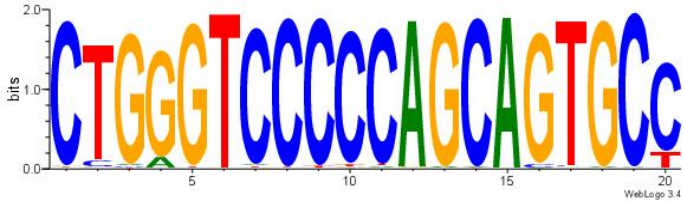

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

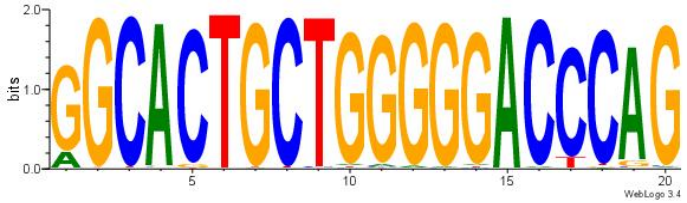

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133117

Alignment:

```
MGGGATATAATCTCCTGGTG
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

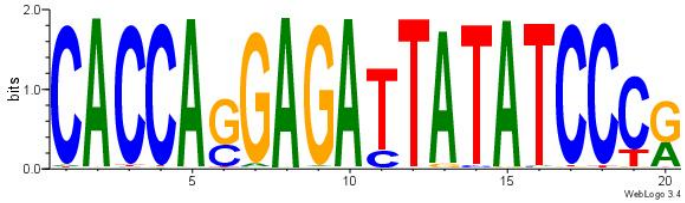

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

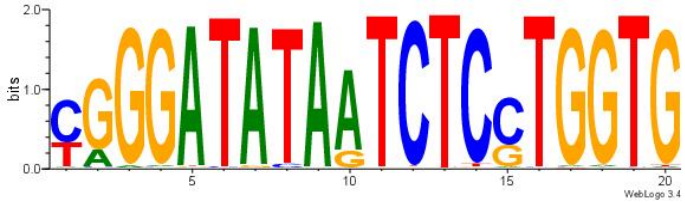

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133957

Alignment:
AGCCYCTGGYAACCAYYAWT
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

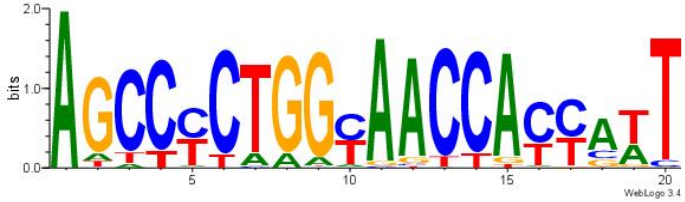

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

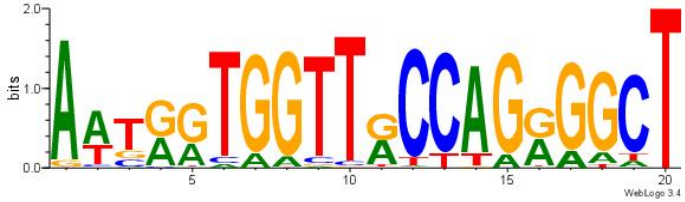

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.135097

Alignment:
CTGGGCRACAGAGYRAGACY
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

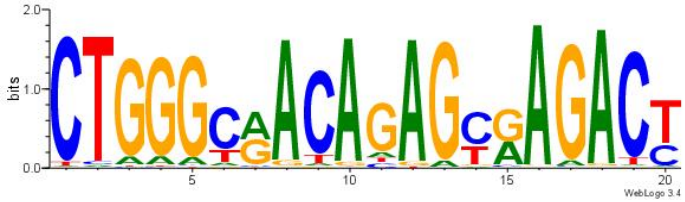

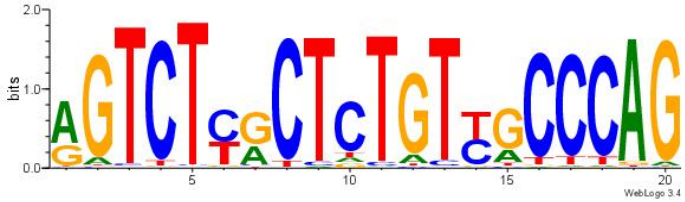

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136061

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

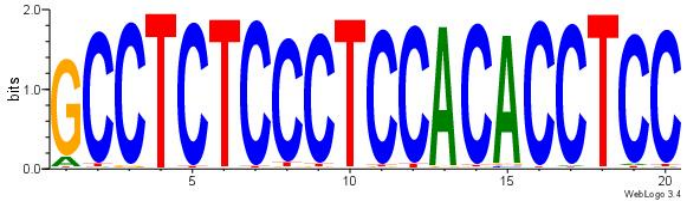

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

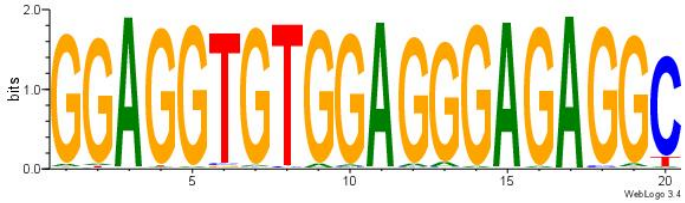

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136384

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

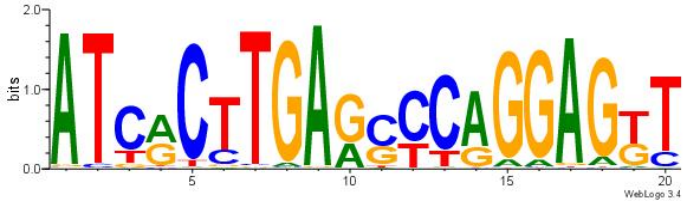

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

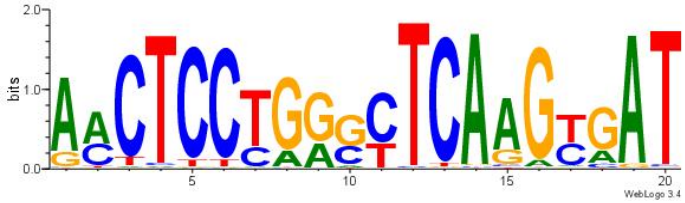

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137824

Alignment:
ATGGCTGAATAKTATTCCAT
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

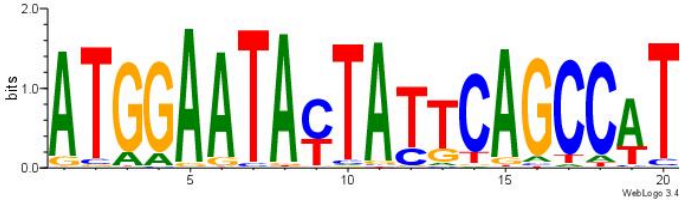

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

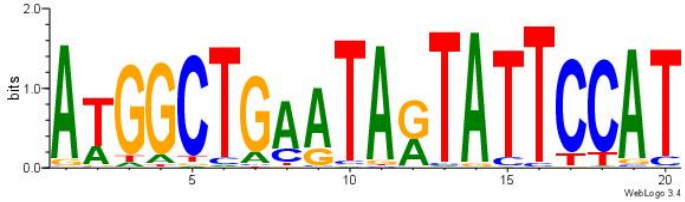

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.13796

Alignment:
ATGTAACCAAAYACCACCTG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

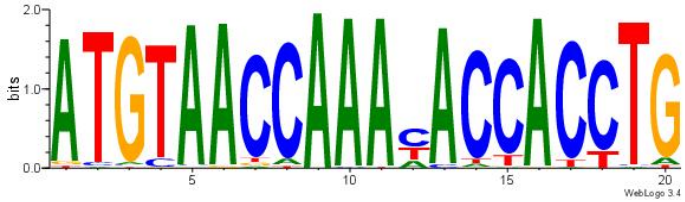

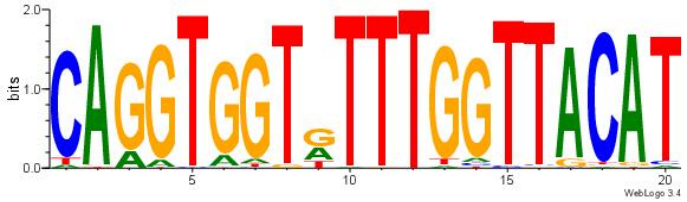

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138203

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

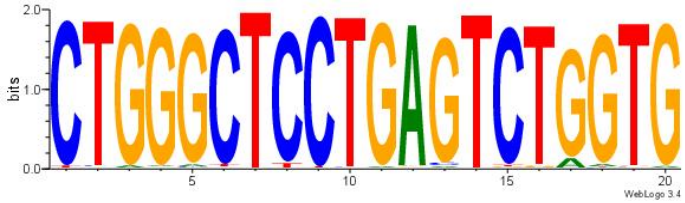

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

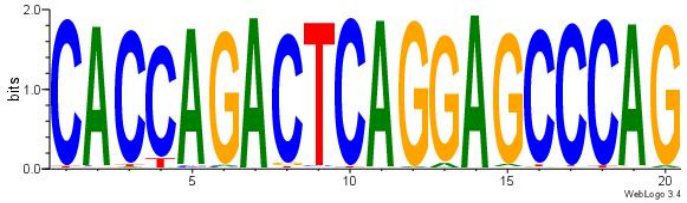

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138276

Alignment:

```
GGATTTMKGACTTGCATGGG
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

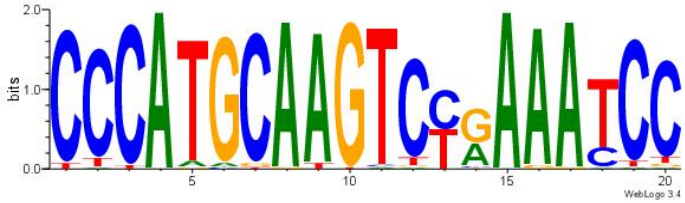

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

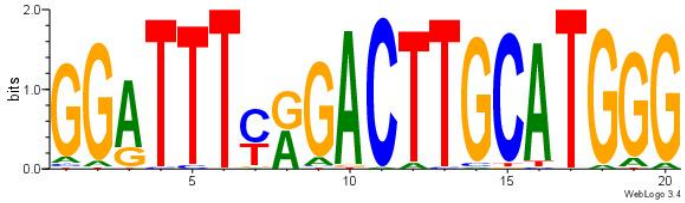

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138298

Alignment:
GCGCTCKTCGGGGAGGCTCG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

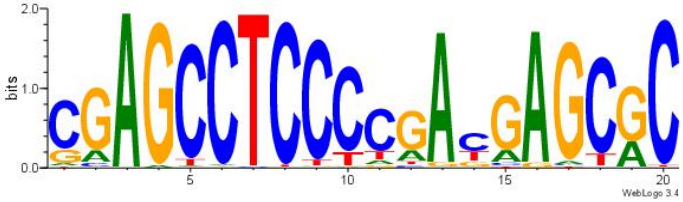

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

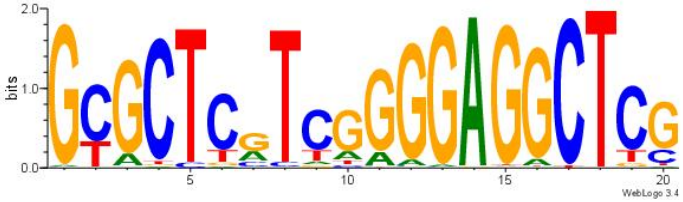

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.138572

Alignment:
AAGTTCTKGGKTACATGTGC
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

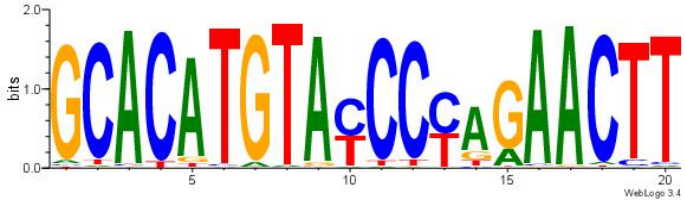

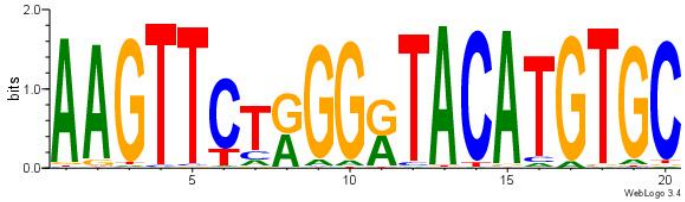

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139259

Alignment:

```
ATCTGACAGGAGGYRGAGCT
ACCGAGMKMGCAGCTTCGGG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

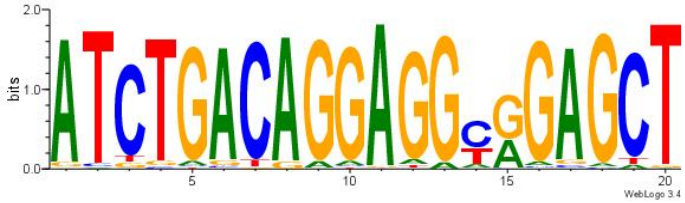

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

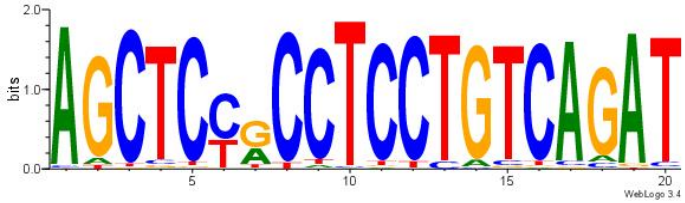

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139394

Alignment:
CAGCTACTCKTATACCCTTG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

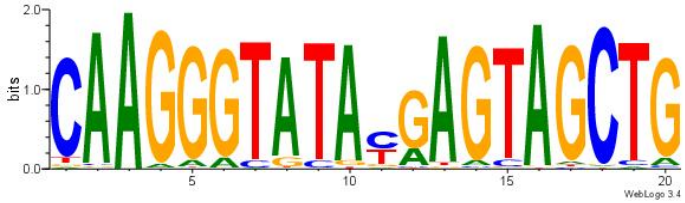

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

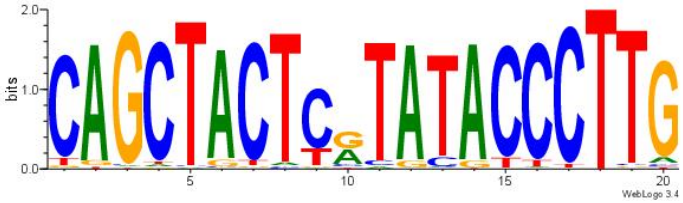

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139454

Alignment:
GGTTCATCTCACTAGGGAGT
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

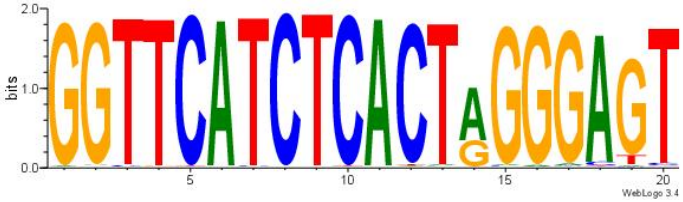

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

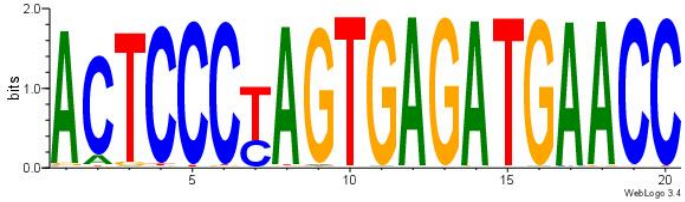

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140052

Alignment:
TACCTGAGACTGGGTAATTT
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

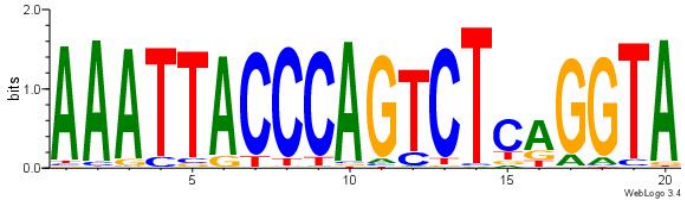

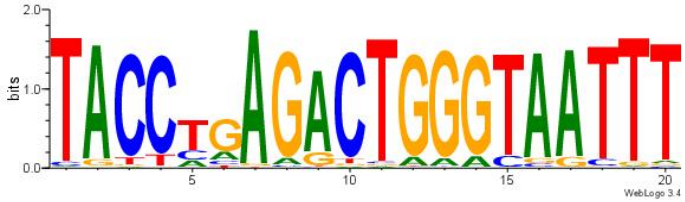

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142128

Alignment:

```
CATTCTGGGGTCTGGAGGAY
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

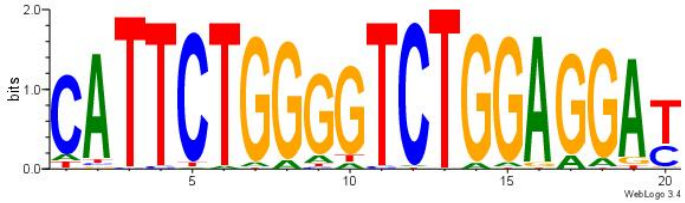

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

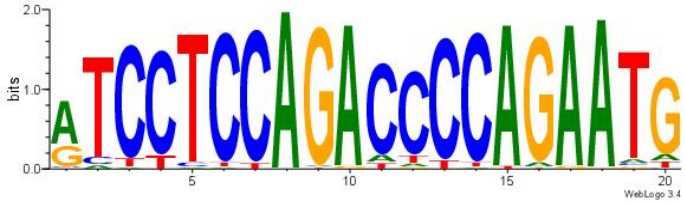

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143624

Alignment:

```
CAAGTTGACACATAAAATTA
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

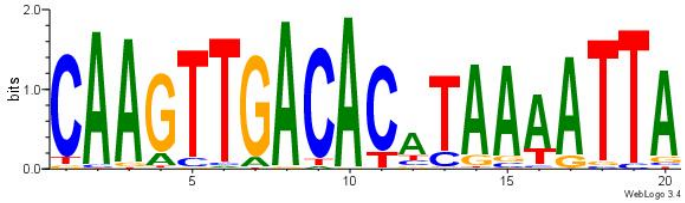

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

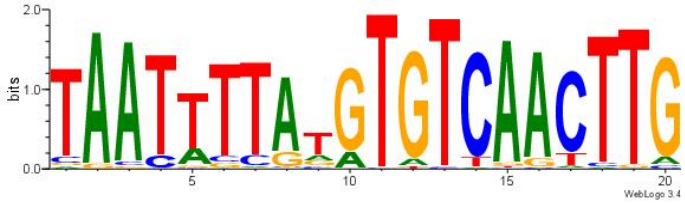

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.143961

Alignment:
AAAGCTGGAGCTATTATCTA
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

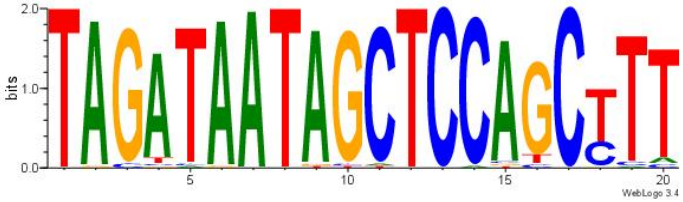

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

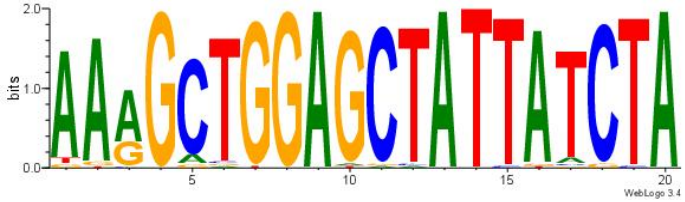

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144646

Alignment:
CTGACTGGGAGACACCTCCC
CCCGAAGCTGCRYRCTCGGT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

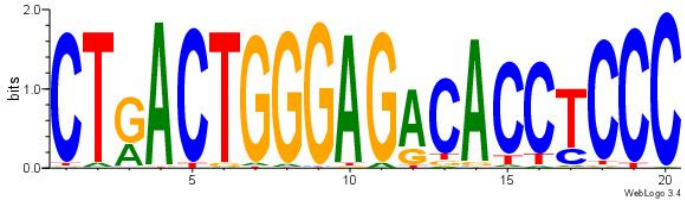

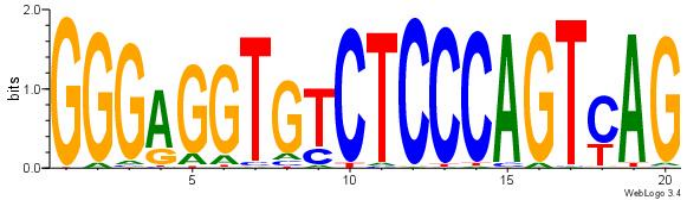

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145251

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
CCCGAAGCTGCRYRCTCGGT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

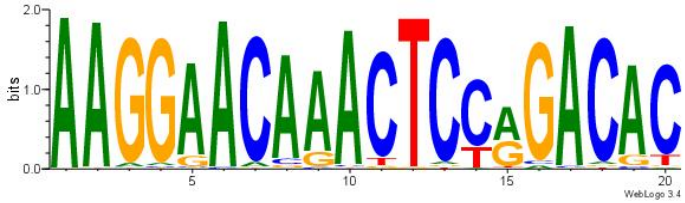

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

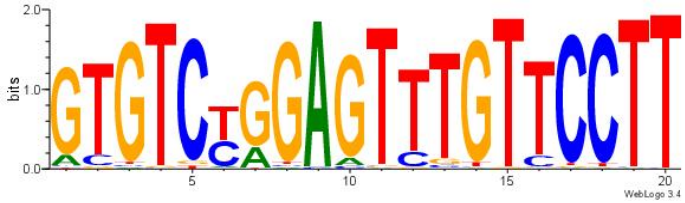

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145561

Alignment:

GCCTCCTTGAGCTGTGGTGG
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

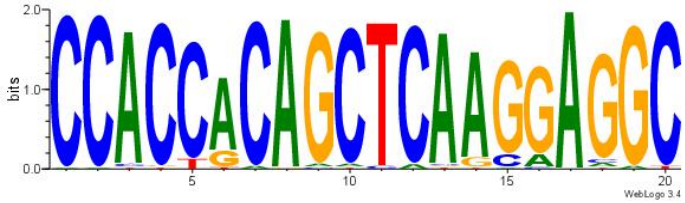

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

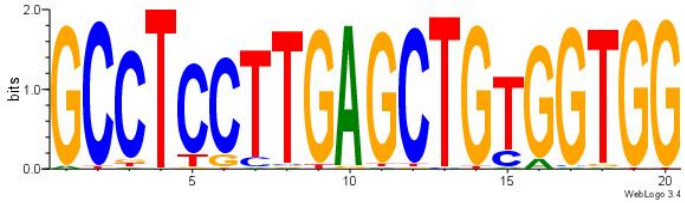

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145939

Alignment:
ATGTGGAGGTGGAAGACAGT
ACCGAGMKMGCAGCTTCGGG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

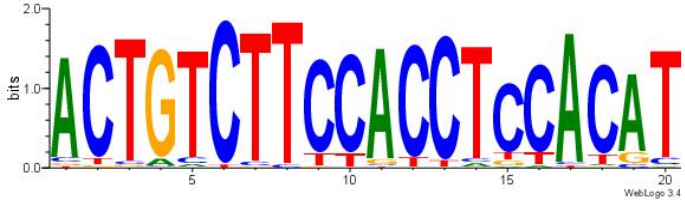

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

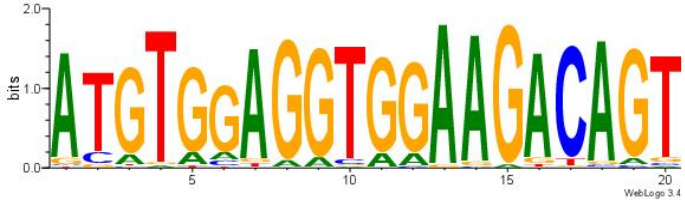

Dataset #: 1 Motif ID: 178 Motif name: Motif 178

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

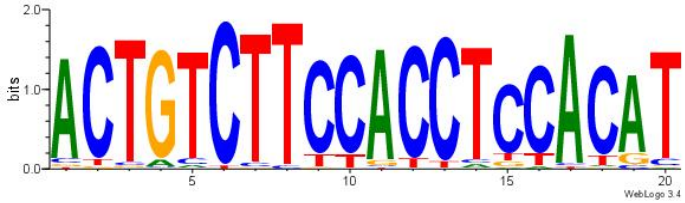

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

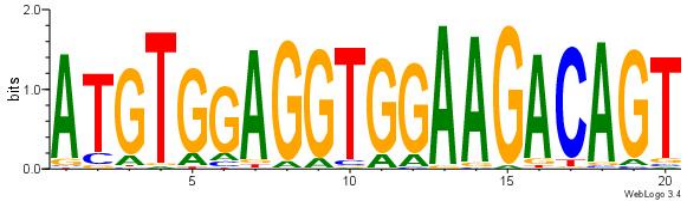

Best Matches for Motif ID 178 (Highest to Lowest)

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.101056

Alignment:

```
TGCTGGAGGTCCACTCCAGA
ATGTGGAGGTGGAAGACAGT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

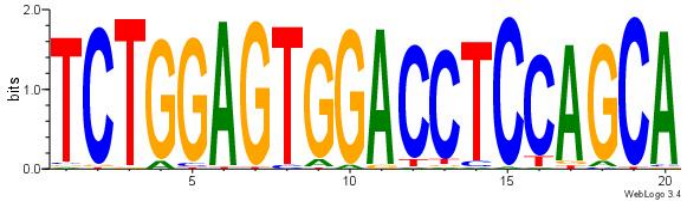

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

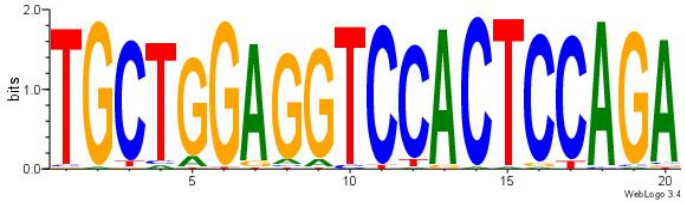

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.111286

Alignment:

TTGTCCCACTGGAAGGTCTT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

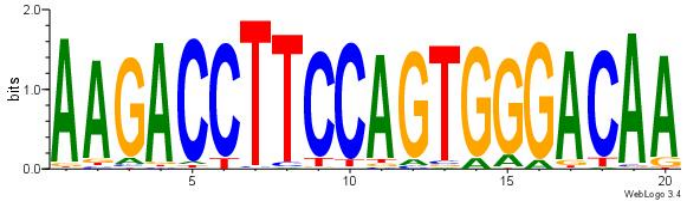

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

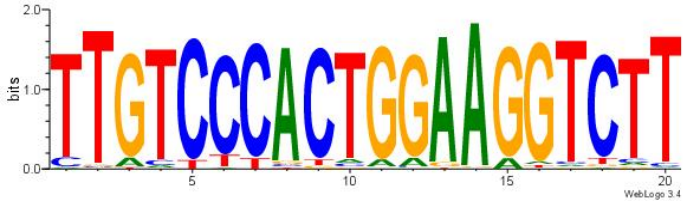

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119924

Alignment:
ATGATCCAGCAATYCCACTH
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

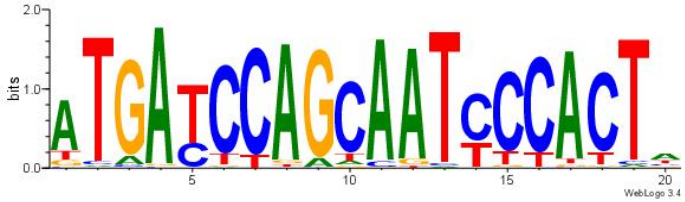

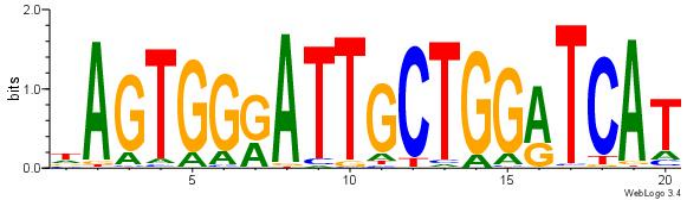

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121173

Alignment:

```
AAAATGTGGTAYATAYAYAC
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

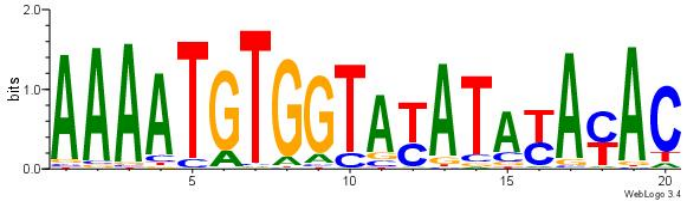

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

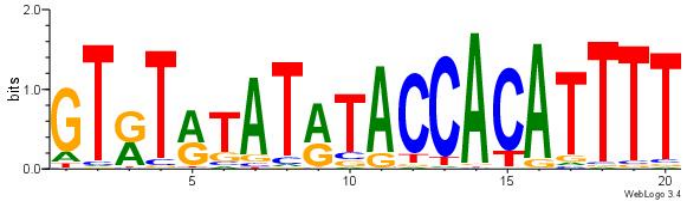

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125588

Alignment:

KKCACCTTGATCTTGGACTT

ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

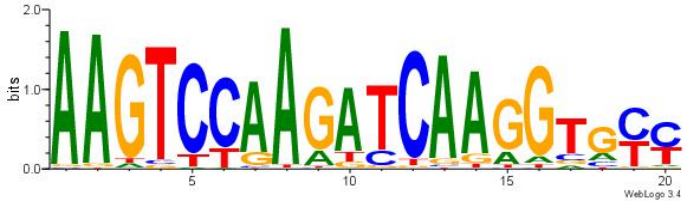

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

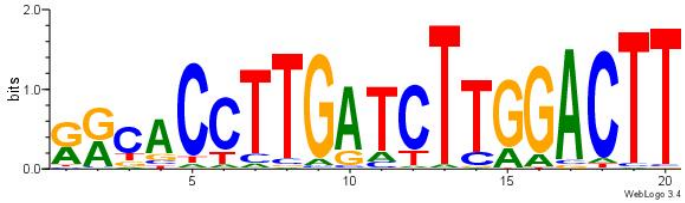

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.12573

Alignment:
AAGCTGAGGGAGCCGGCTCC
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

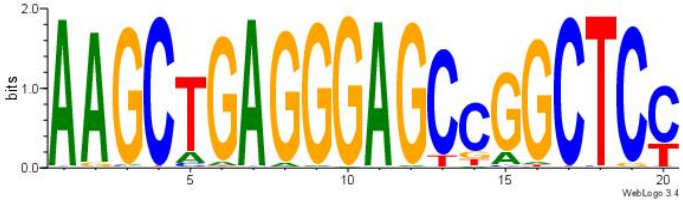

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

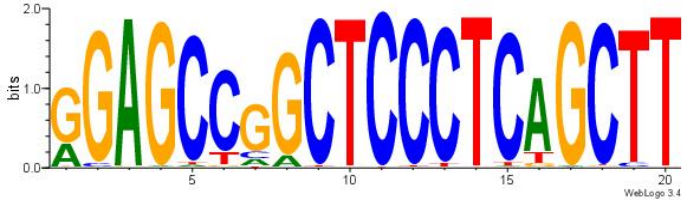

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.125984

Alignment:
AGTGACCCGATTTTCCAGGT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

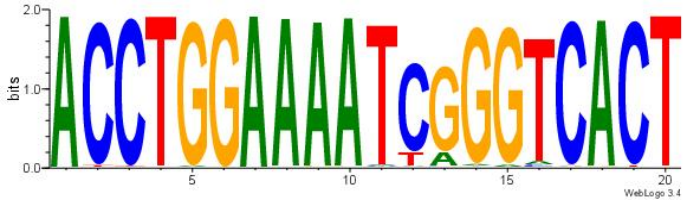

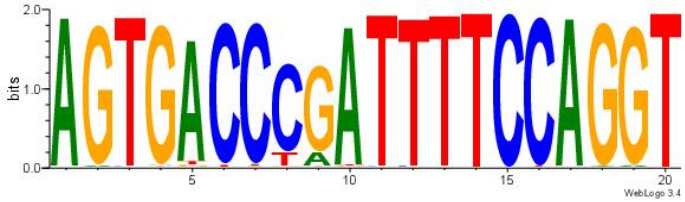

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126969

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
ATGTGGAGGTGGAAGACAGT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

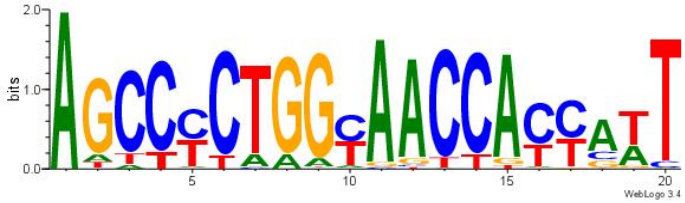

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

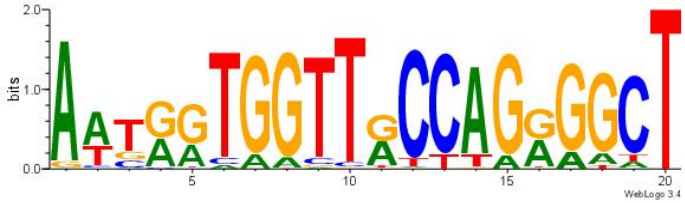

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127899

Alignment:
TCTCTCTCTCTCTCTCTCTC
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

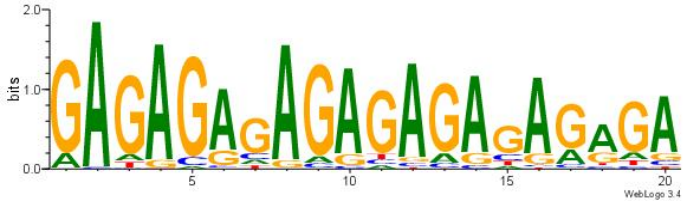

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

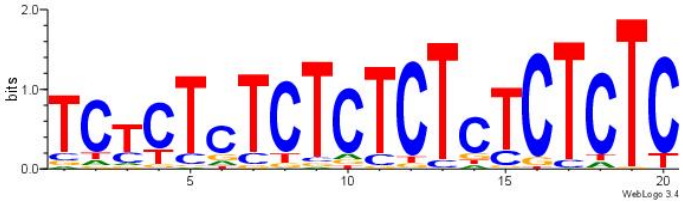

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.129035

Alignment:
CTTGCCCAAGGTCACACAGC
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

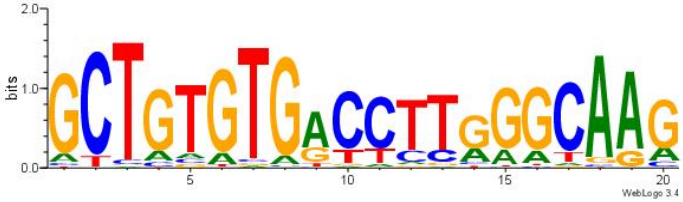

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

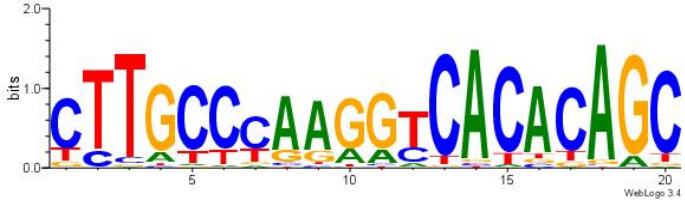

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130201

Alignment:
GCTGGAGTGCAGTGGCRYGA
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

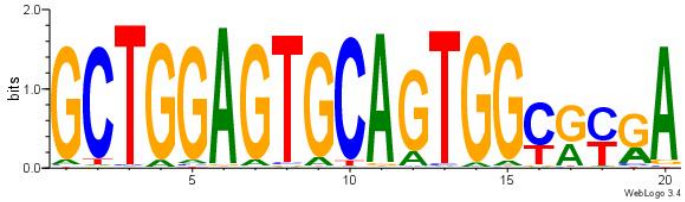

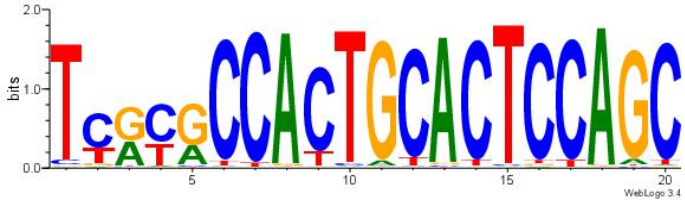

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130718

Alignment:

```
CTGGGCRACAGAGYRAGACY
ATGTGGAGGTGGAAGACAGT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

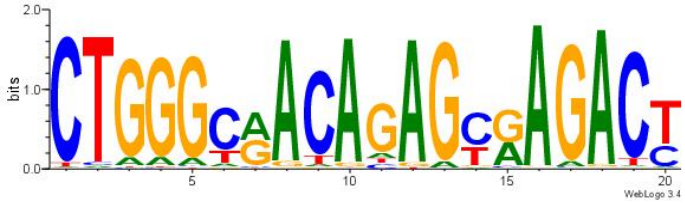

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

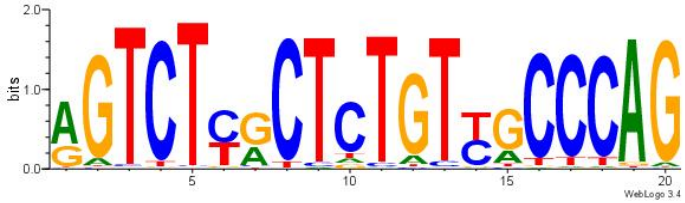

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132821

Alignment:

```
ATGGAATAYTATTCAGCCAT
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

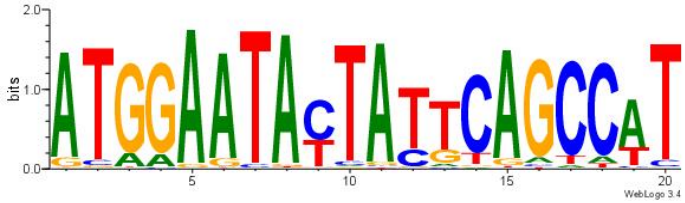

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

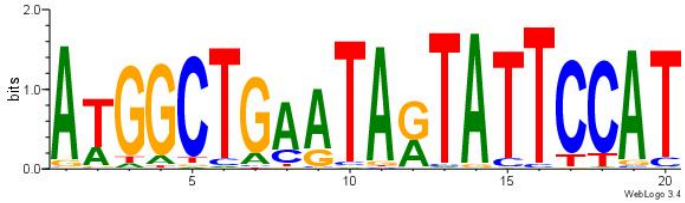

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.13308

Alignment:
AGCTGTGAGAAGAGGGCCAC
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

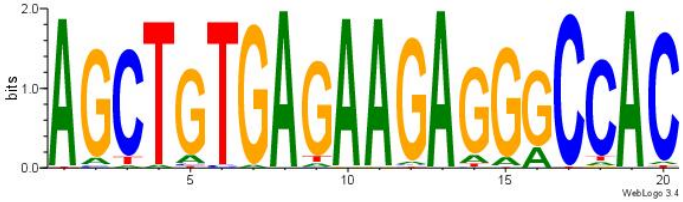

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

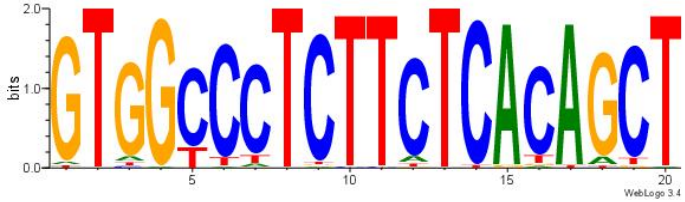

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.1336

Alignment:
AGTAGGTGCTCARTAAATRB
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

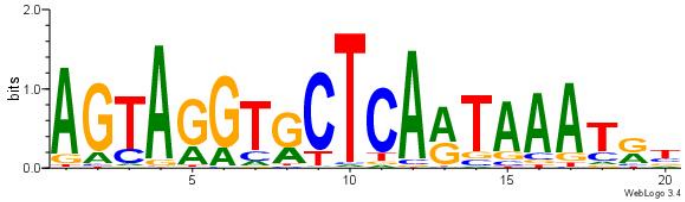

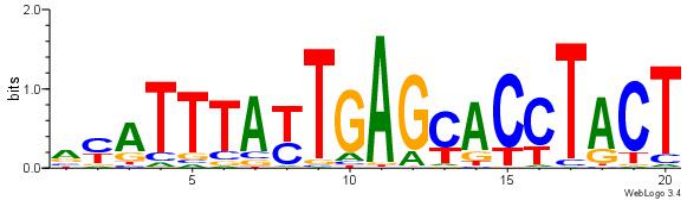

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133842

Alignment:
ATAGGAATGCTTGTGATTTT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

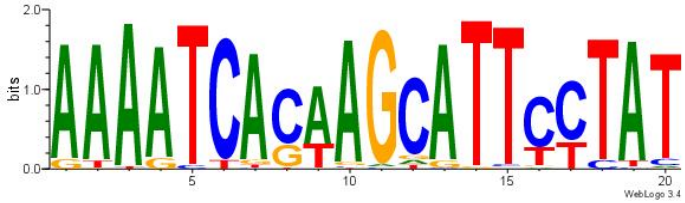

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

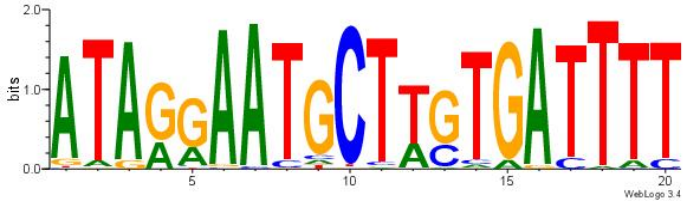

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134506

Alignment:

```
ATCTGACAGGAGGYRGAGCT
ATGTGGAGGTGGAAGACAGT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

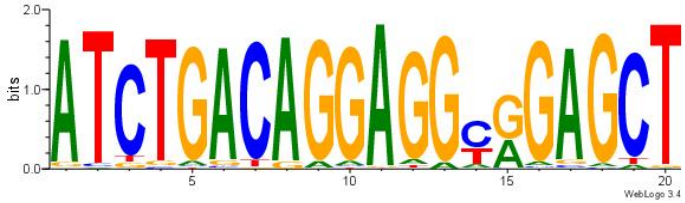

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

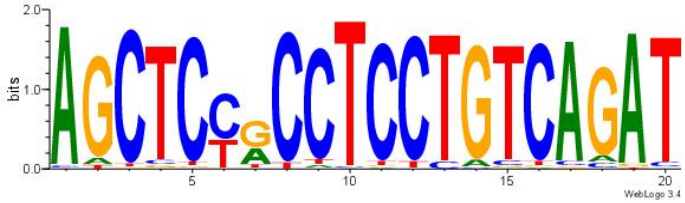

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134934

Alignment:
GTCTCWAMAAAAAAWAMAAA
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

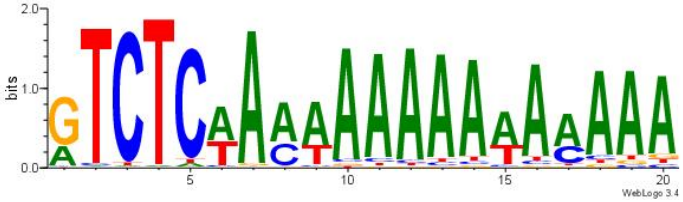

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

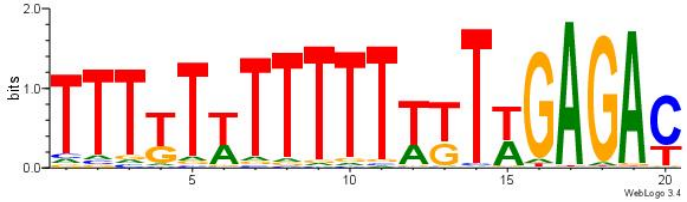

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137428

Alignment:
AAGTTCTKGGKTACATGTGC
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

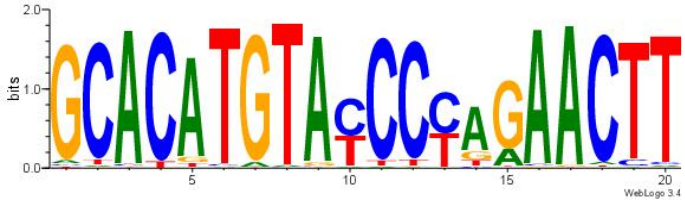

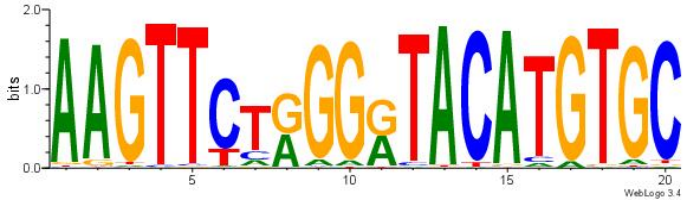

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138122

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
ATGTGGAGGTGGAAGACAGT
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

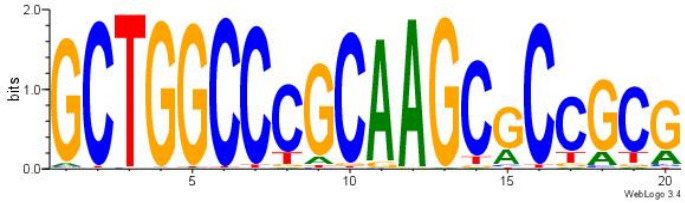

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

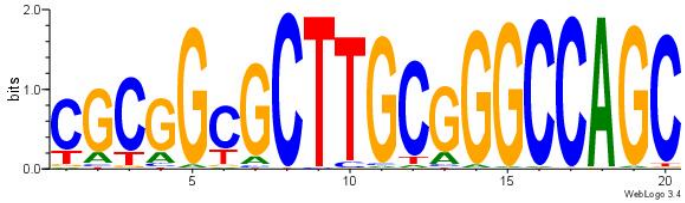

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138702

Alignment:
GTTATTAATTGGCCTAATTT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

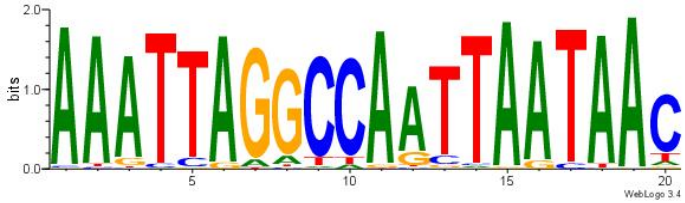

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139433

Alignment:
AACAACASACACTGGGGCCT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

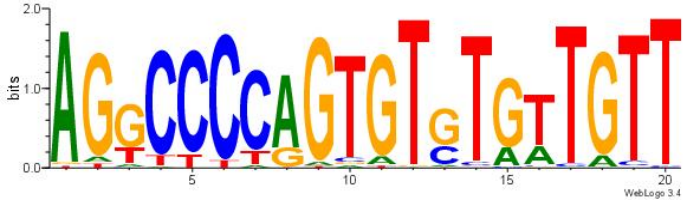

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

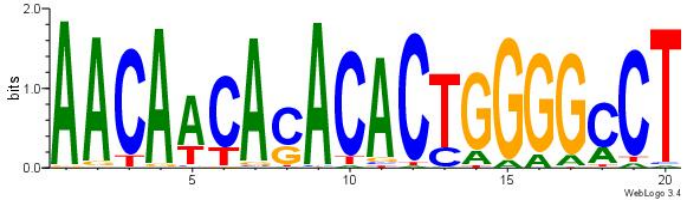

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.139634

Alignment:
AGGTCCTTCAGGAGGTATTC
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

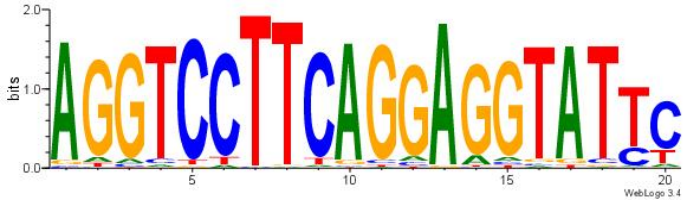

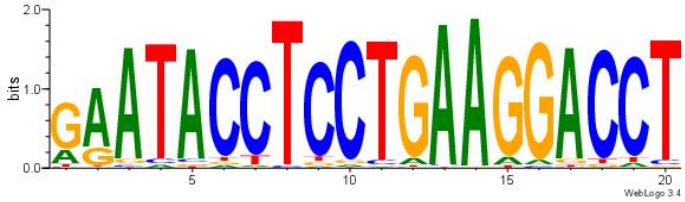

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140597

Alignment:

```
ATTGATMKCCAGGGTTGATT
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

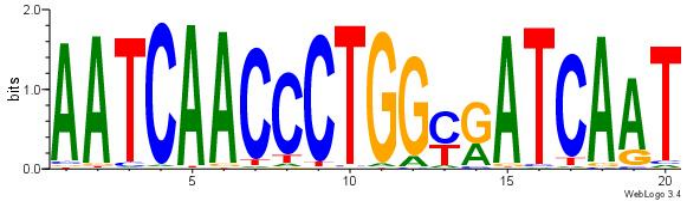

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

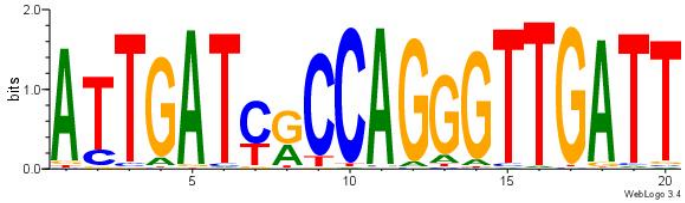

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141325

Alignment:

GCCKGGMKCMGTGGCTCAKG

ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

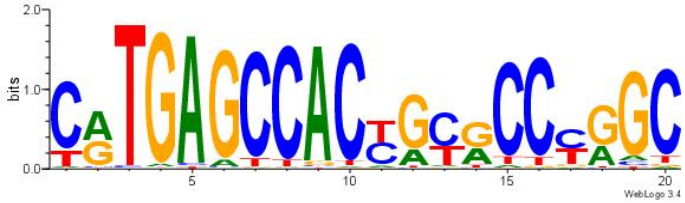

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

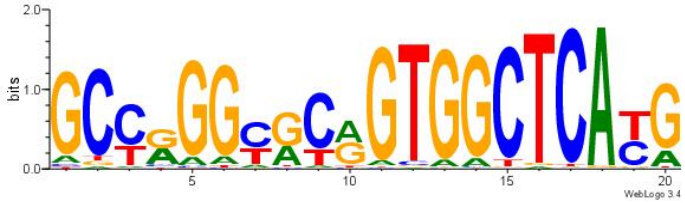

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.142602

Alignment:
CTGGCCCTCAATGGTTAAAC
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

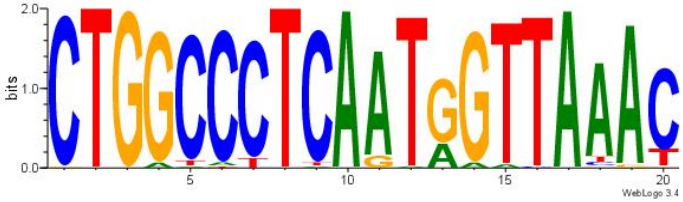

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

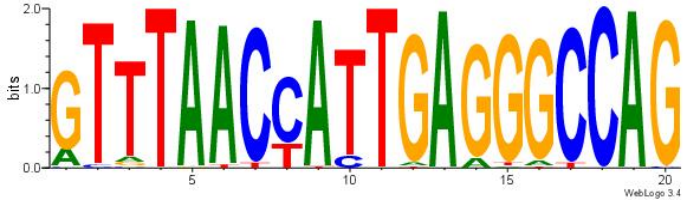

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142627

Alignment:
CAGGTGGTKTTTGGTTACAT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

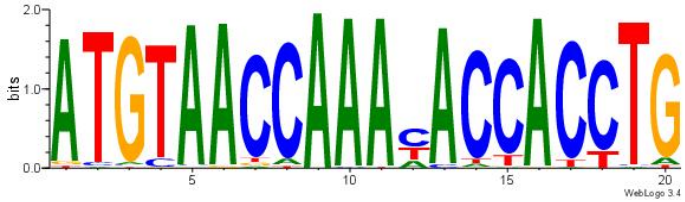

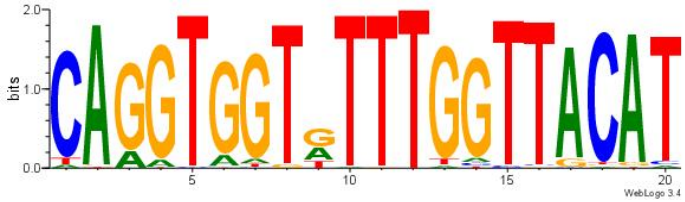

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144018

Alignment:
CGAGCCTCCCCGAYGAGCGC
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

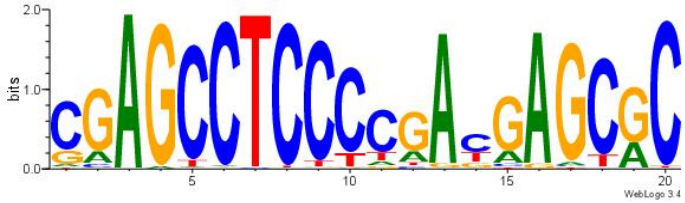

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

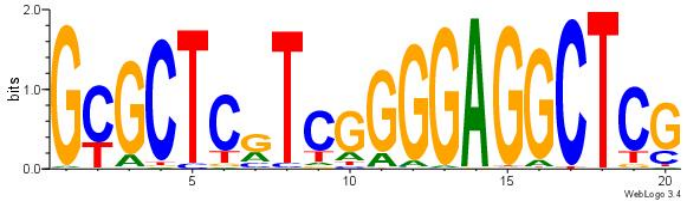

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144249

Alignment:
AGCTCCCAGCGTGAGCGACG
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

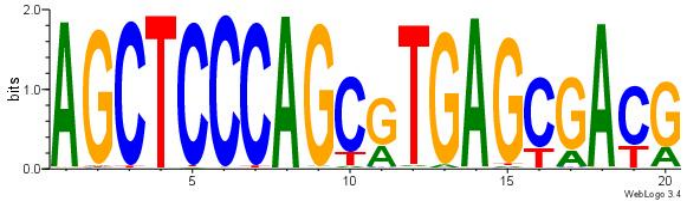

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

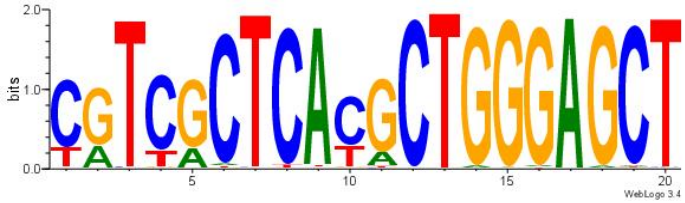

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145316

Alignment:
GAAHCAACCKAAKTGTCCAT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

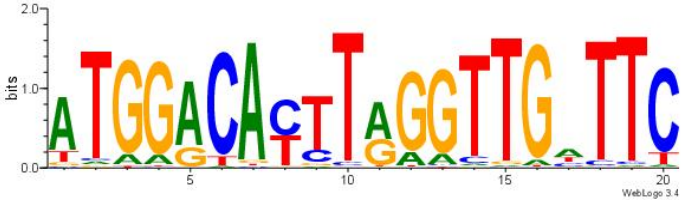

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

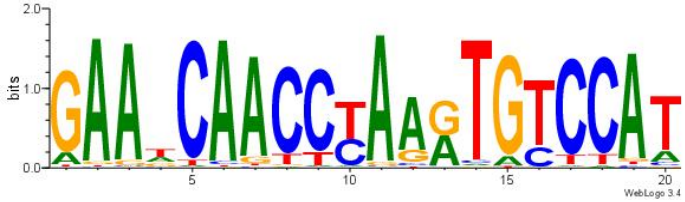

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145366

Alignment:
ATCRCTTGAGSYCAGGAGKT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

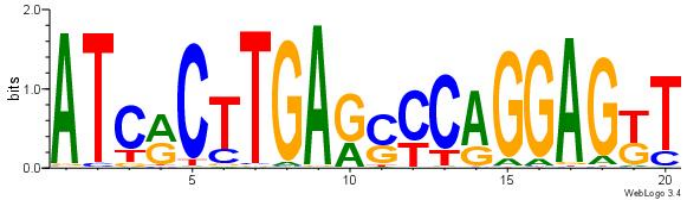

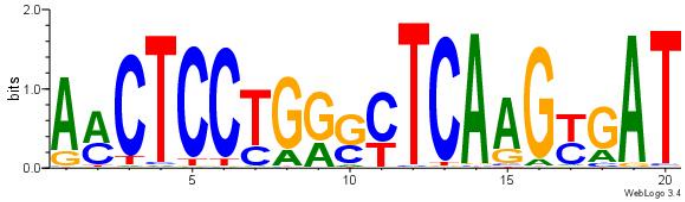

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146593

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

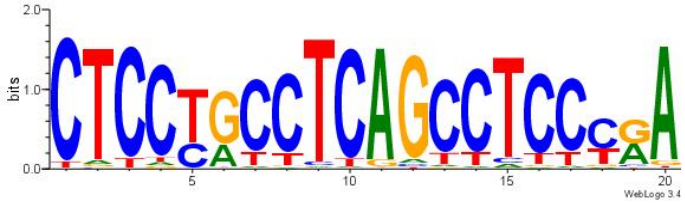

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

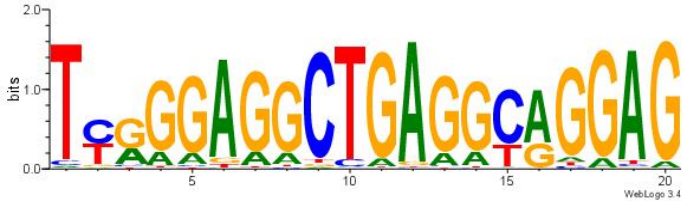

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147169

Alignment:

AAAAGTCCACAGTCCAAAGT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

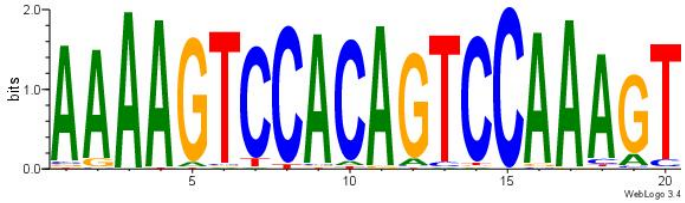

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

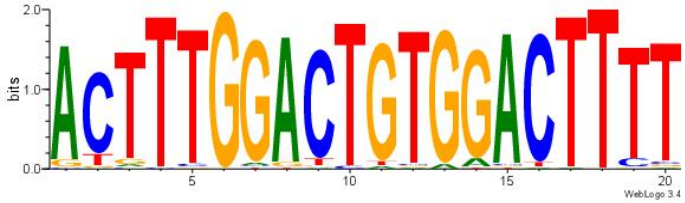

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147646

Alignment:
GTGTCKGGAGTTTGTTCCTT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

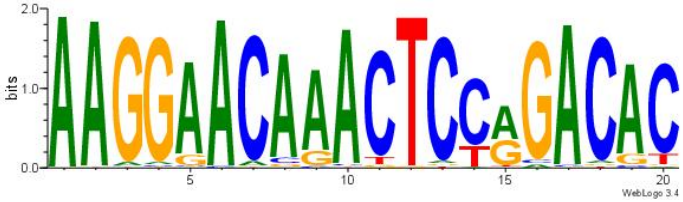

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

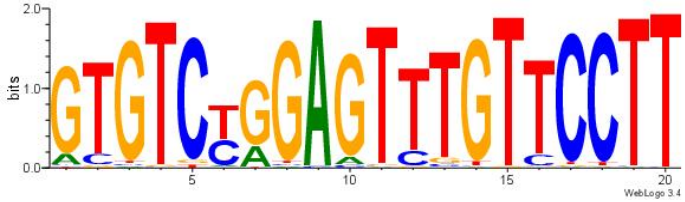

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149336

Alignment:
TYTGTCMTTTTGTGACTGGC
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

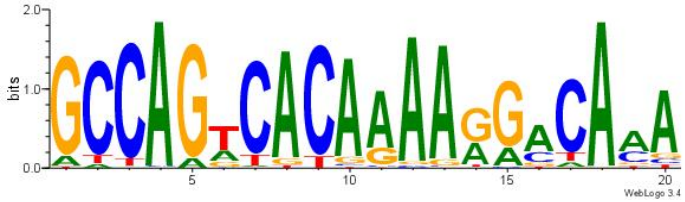

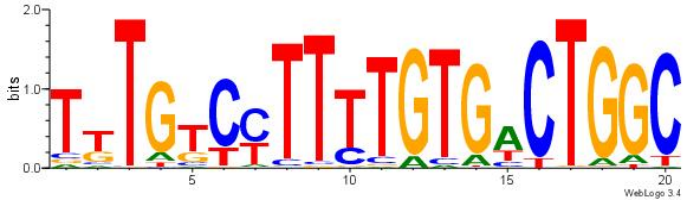

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151532

Alignment:
TACCTGAGACTGGGTAATTT
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

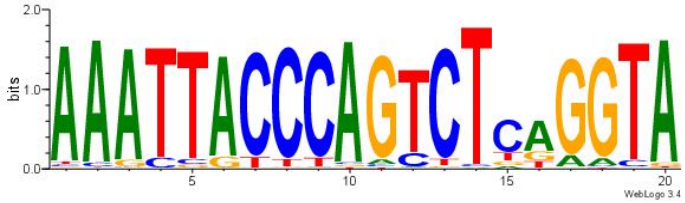

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

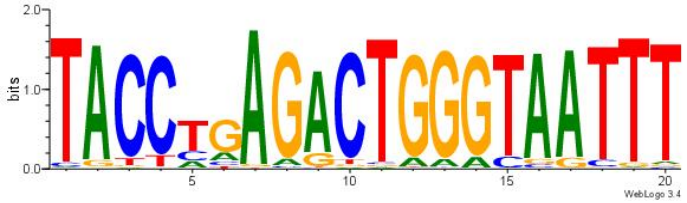

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152128

Alignment:

```
GCCAATTTCTCCCATTTGGA
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

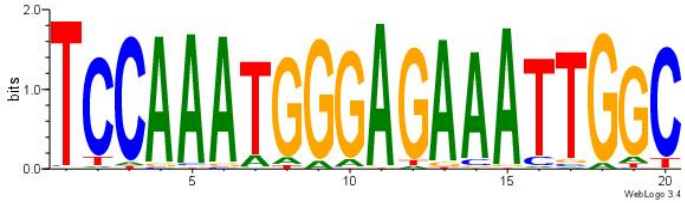

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

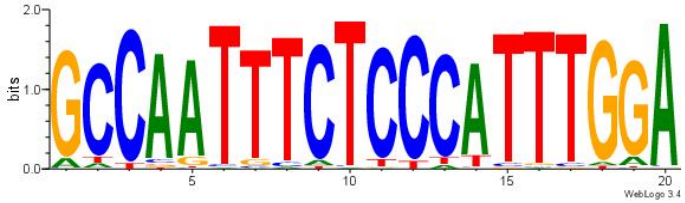

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.152317

Alignment:
TGGAGAACCTTTATGTCTAG
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

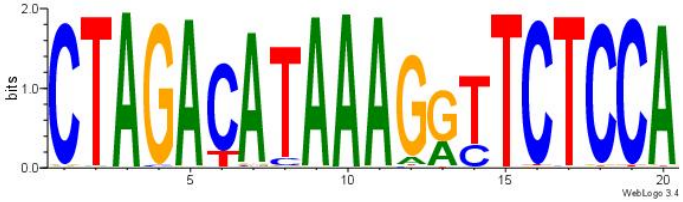

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

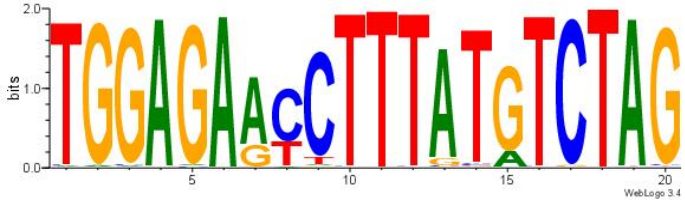

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153979

Alignment:
TWTACCTATGTAACAAACCT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

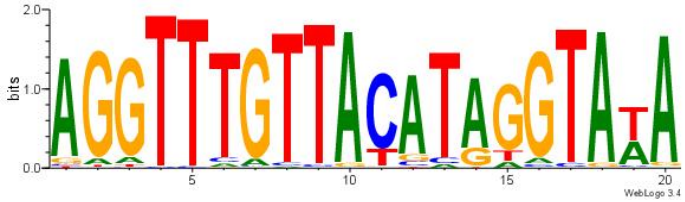

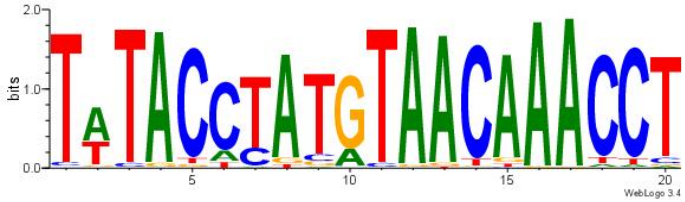

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154399

Alignment:
GGGATTGTAAATACACCAAT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

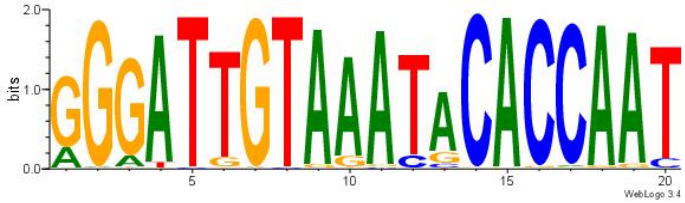

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154599

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

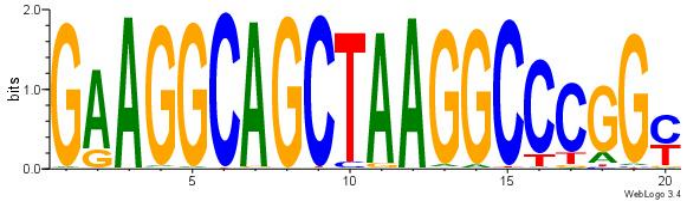

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

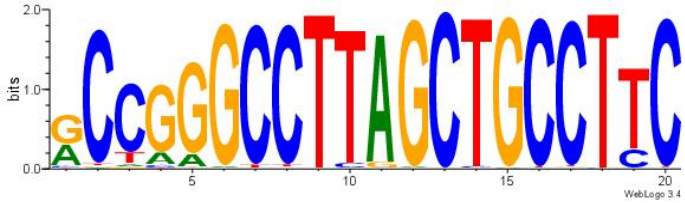

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155151

Alignment:
CMTAGYACAGTGCCTGGCAC
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

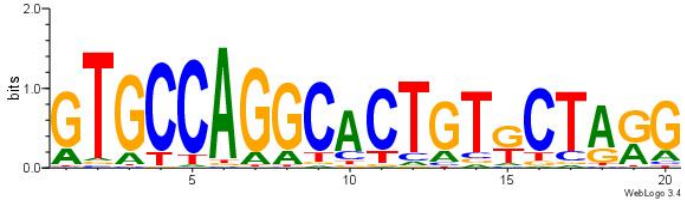

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

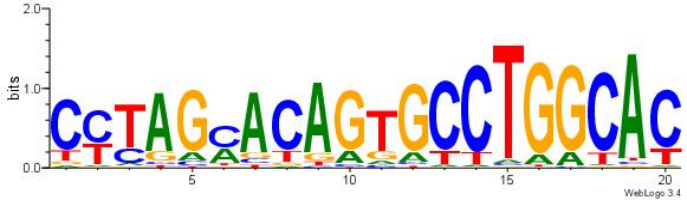

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155569

Alignment:
CATTCTGGGGTCTGGAGGAY
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

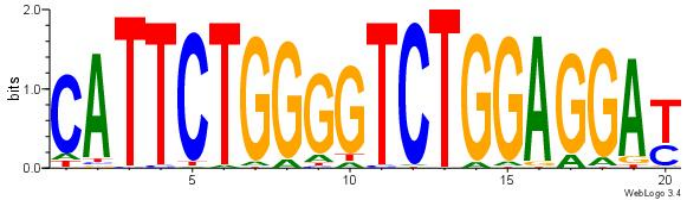

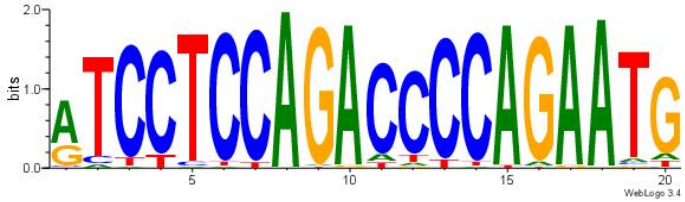

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156118

Alignment:

```
AGTGAGAACATRYRRTRTTT
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

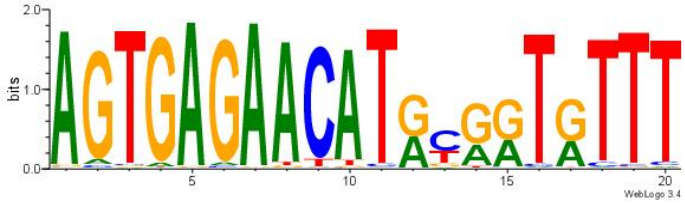

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

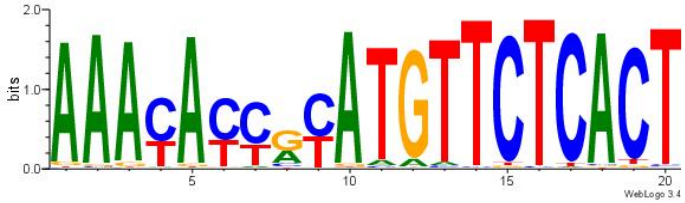

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156257

Alignment:

```
ACCCAATWTGTAGTCTTTTA
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

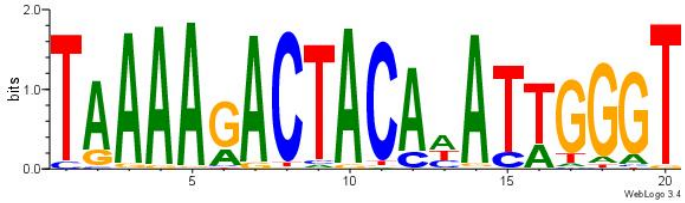

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

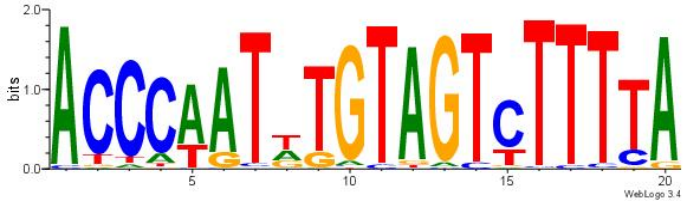

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156607

Alignment:
CTGACTGGGAGACACCTCCC
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

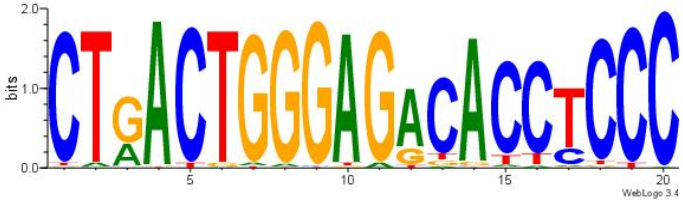

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

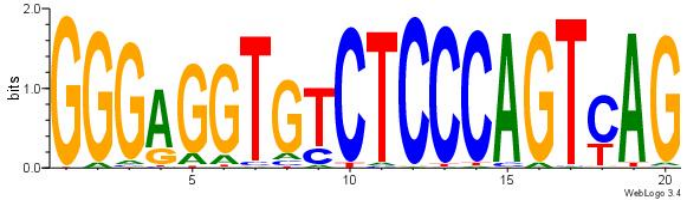

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156632

Alignment:
CTCAGTGTTAATCTCCTGTC
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

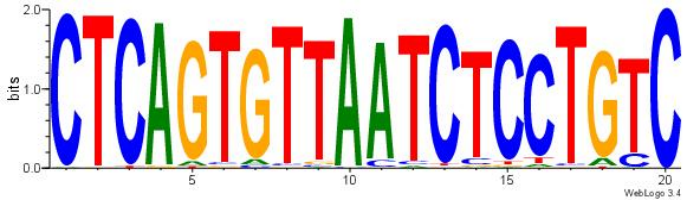

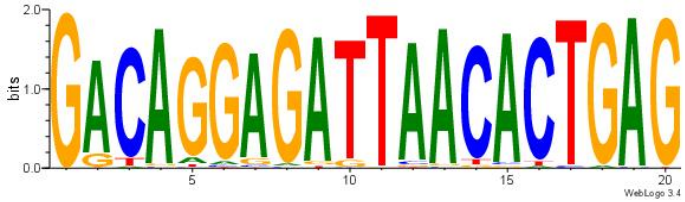

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156677

Alignment:

```
CCTGCCATTGCYSAGGCTTG
ACTGTCTTCCACCTCCACAT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

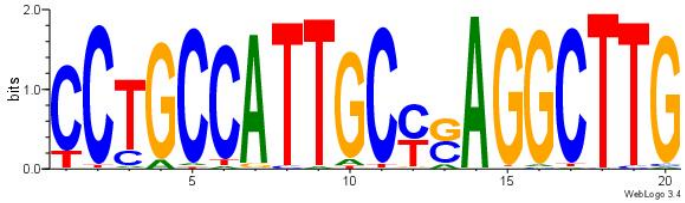

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

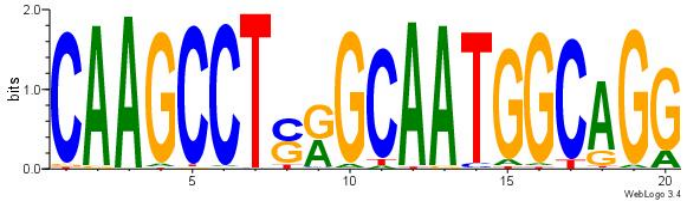

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158089

Alignment:
CAACATGGATGRARCTGGAG
ATGTGGAGGTGGAAGACAGT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

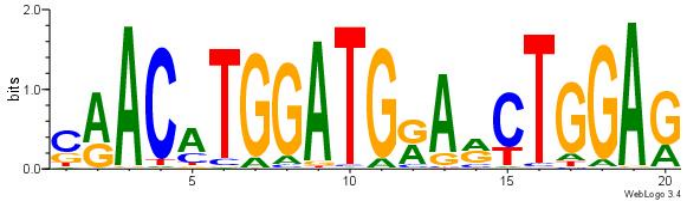

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

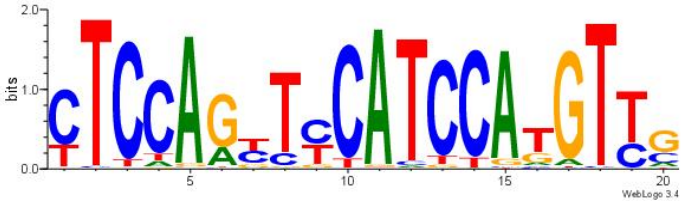

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.158285

Alignment:
GGTTCATCTCACTAGGGAGT
ACTGTCTTCCACCTCCACAT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

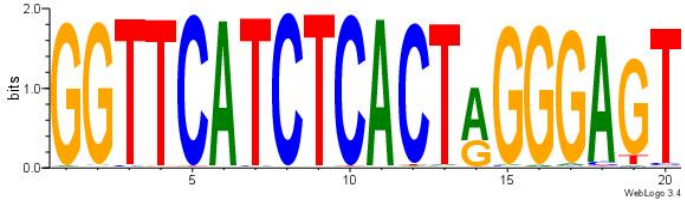

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

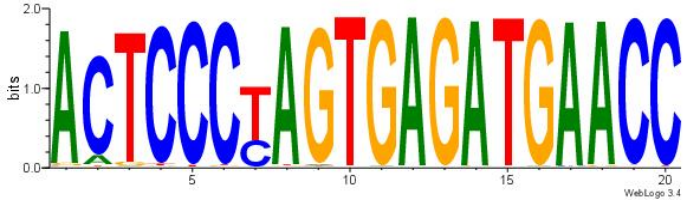

Dataset #: 1 Motif ID: 179 Motif name: Motif 179

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

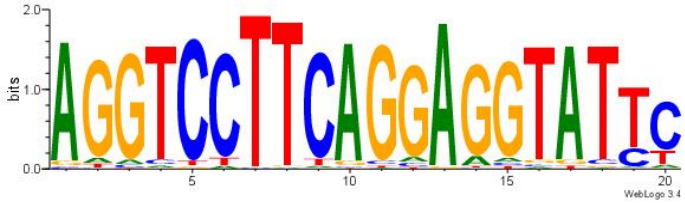

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

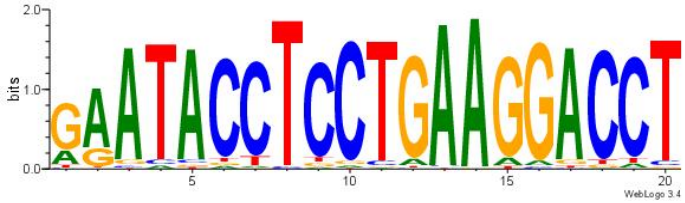

Best Matches for Motif ID 179 (Highest to Lowest)

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0979569

Alignment:
TTGTCCCACTGGAAGGTCTT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

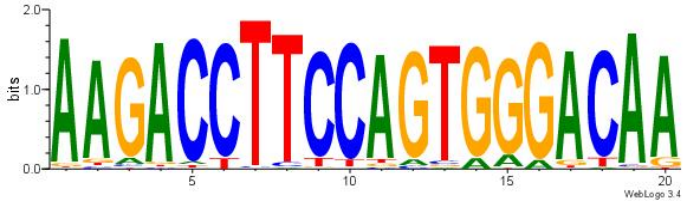

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

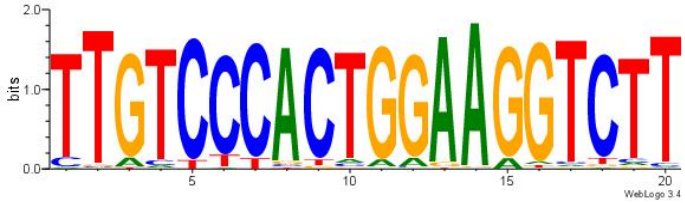

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.114535

Alignment:

CTGGCCCTCAATGGTTAAAC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

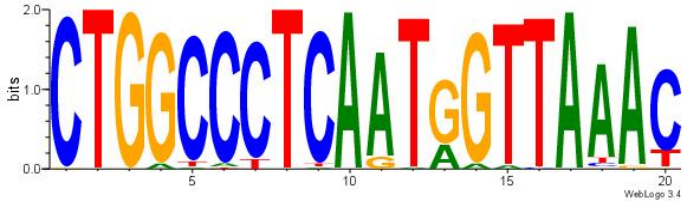

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

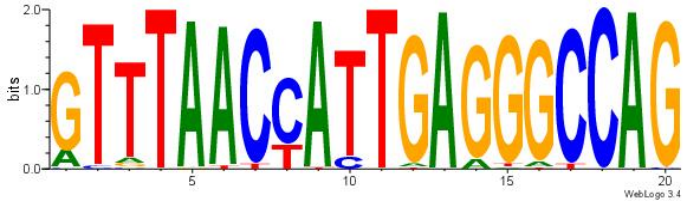

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12063

Alignment:
AAGTTCTKGGKTACATGTGC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

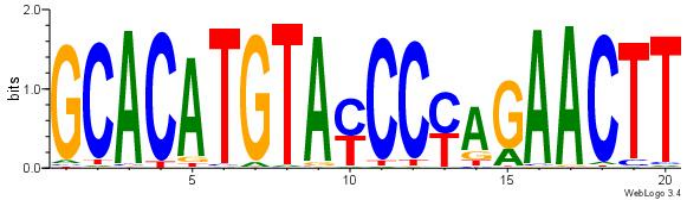

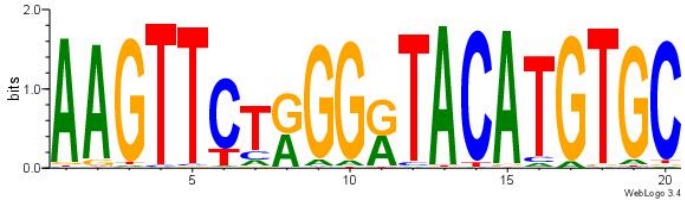

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120895

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

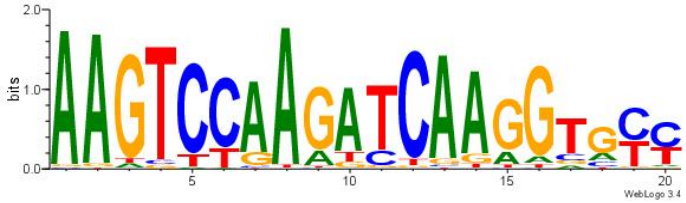

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

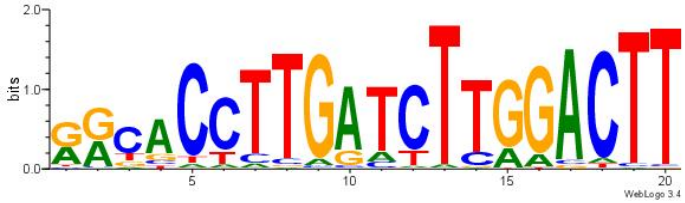

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122039

Alignment:

```
AGTGAGAACATRYRRTRTTT
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

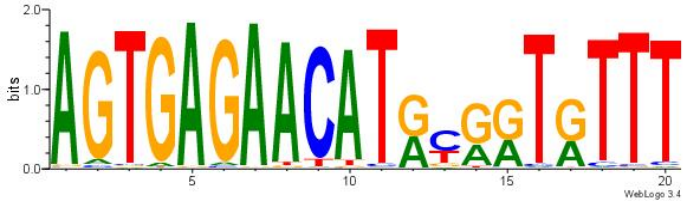

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

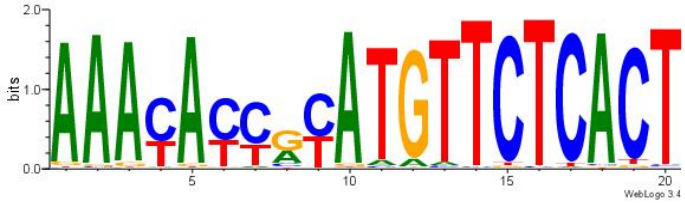

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.124007

Alignment:
GCGCTCKTCGGGGAGGCTCG
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

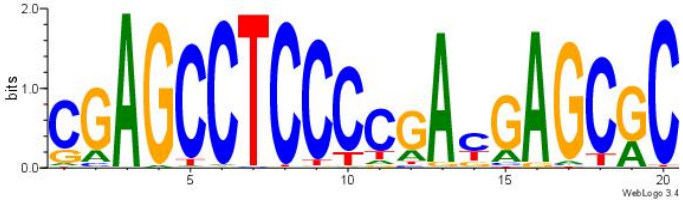

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

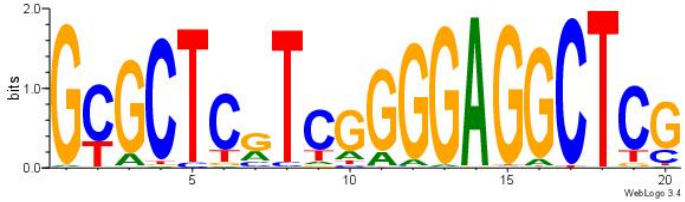

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128376

Alignment:
GTGGCCCTCTTCTCACAGCT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

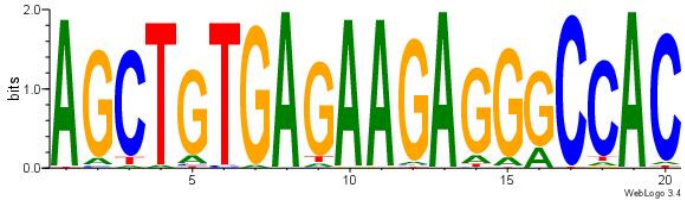

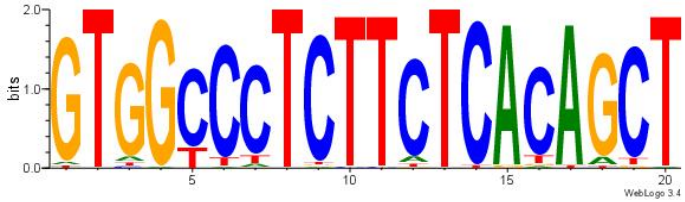

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128826

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

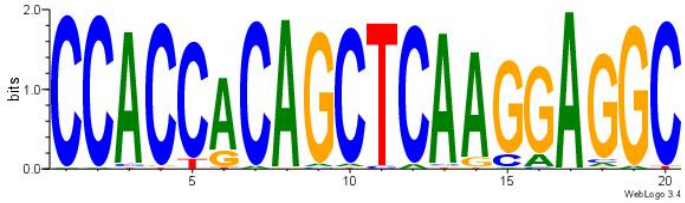

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

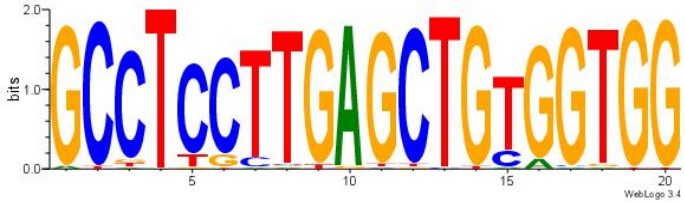

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13269

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

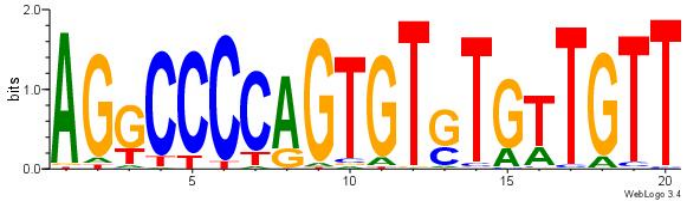

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

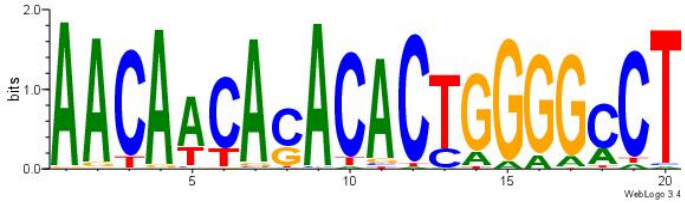

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.135273

Alignment:
ATCTGACAGGAGGYRGAGCT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

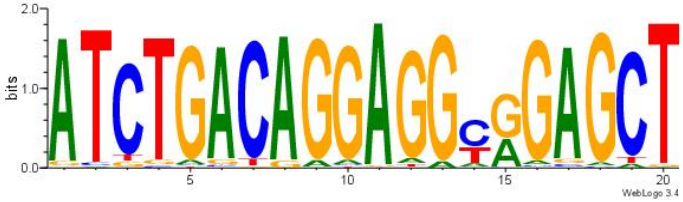

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

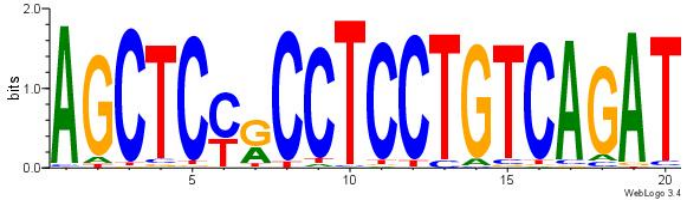

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.135369

Alignment:
ATGGACAYTTRGGTTGHTTC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

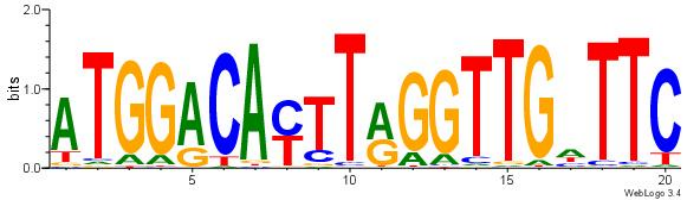

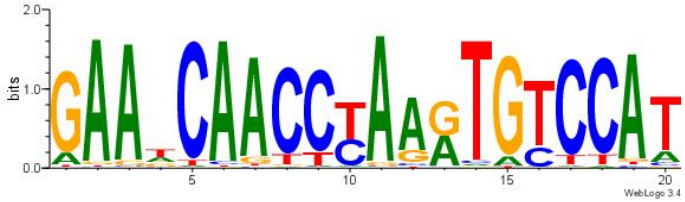

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137428

Alignment:

```
GCAAAKGACATGATYTCATT
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

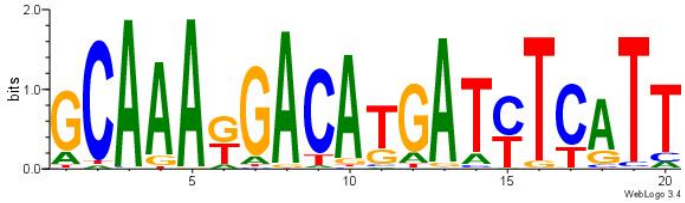

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

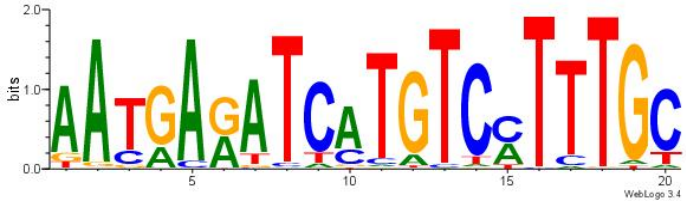

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137498

Alignment:
AGGTTTGTTACATAGGTAWA
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

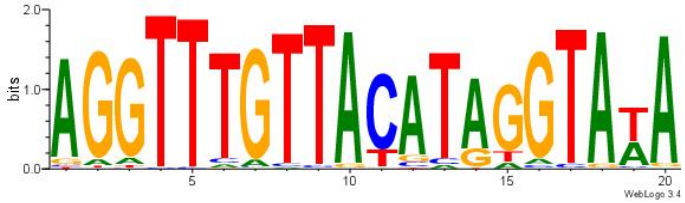

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

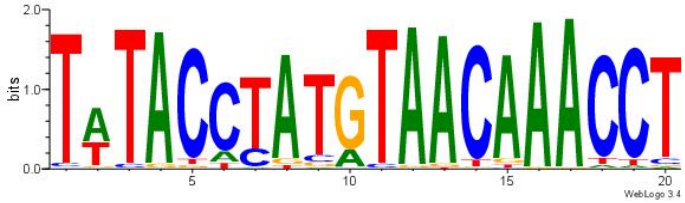

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140077

Alignment:
GGGTCAGGGAGTTCCCTTTC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

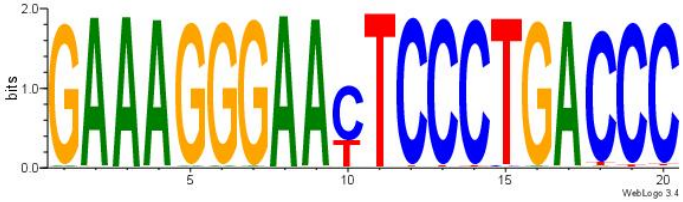

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

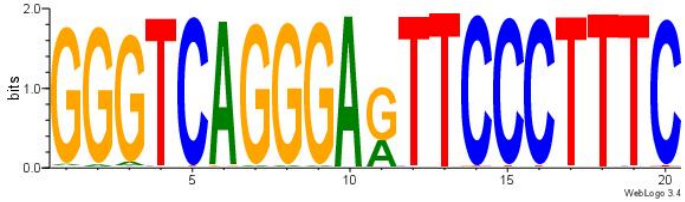

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140826

Alignment:
AGAAATCGAGCRCAGCGCCG
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

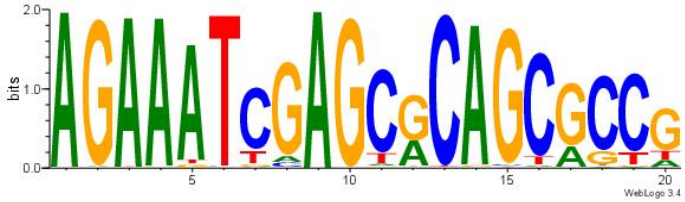

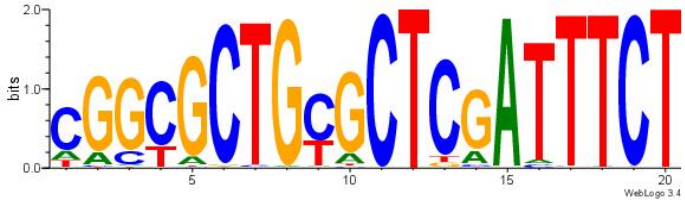

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141447

Alignment:
VMATTTAKTGAGCACCTACT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

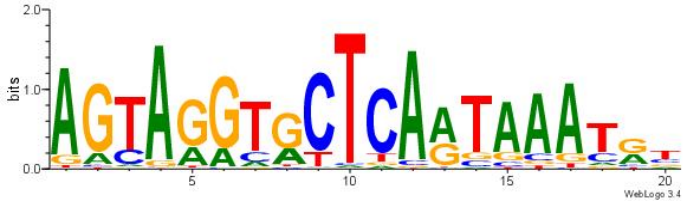

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

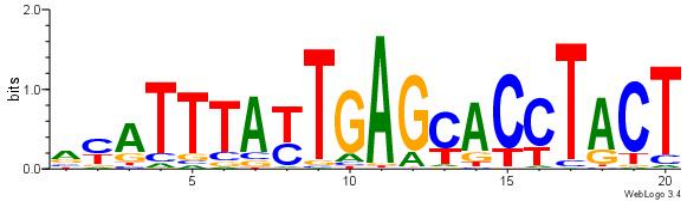

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143767

Alignment:
ACTGTCTTCCACCTCCACAT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

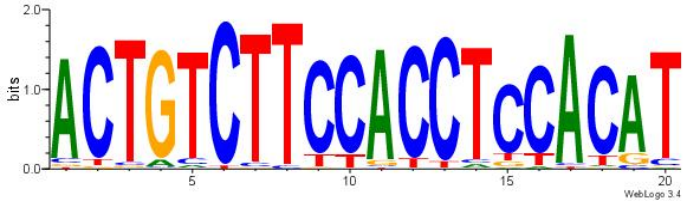

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

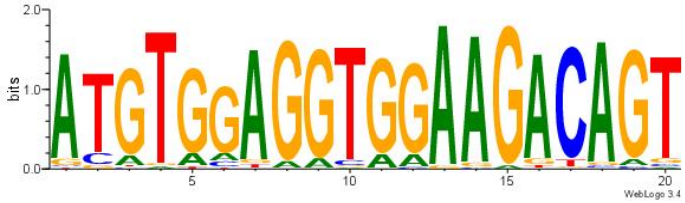

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.14403

Alignment:
ATCRCTTGAGSYCAGGAGKT
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

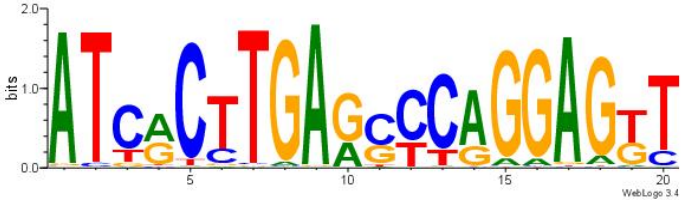

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

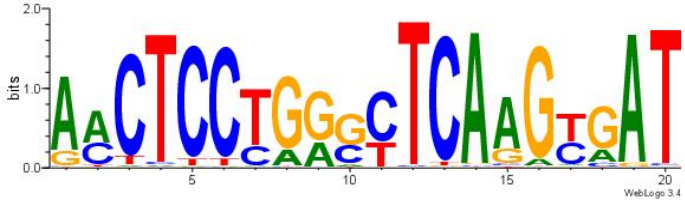

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145273

Alignment:
AGCTCCCAGCGTGAGCGACG
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

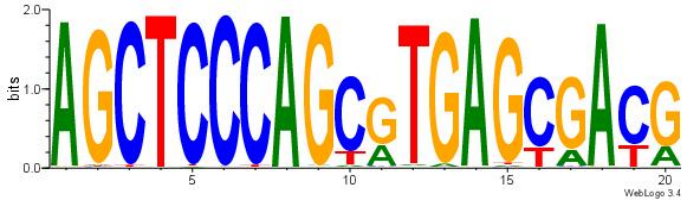

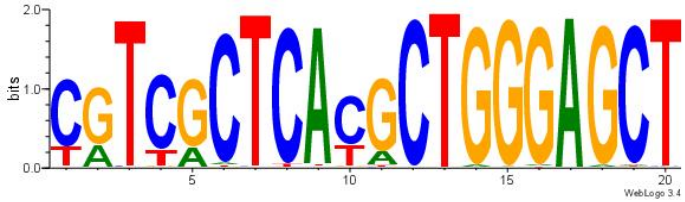

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145897

Alignment:

```
GTAACACTCACCGCGARGGT
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

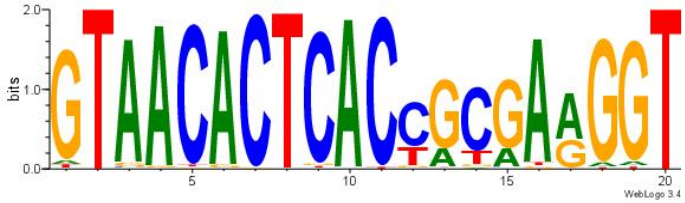

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

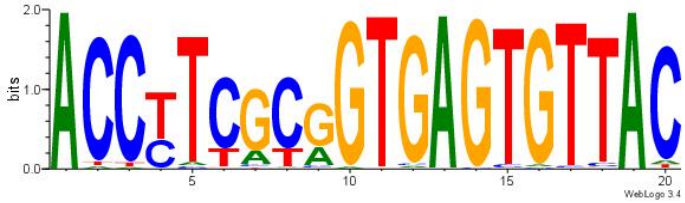

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147368

Alignment:

GGATCCACTGGGTGAAGCCA
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

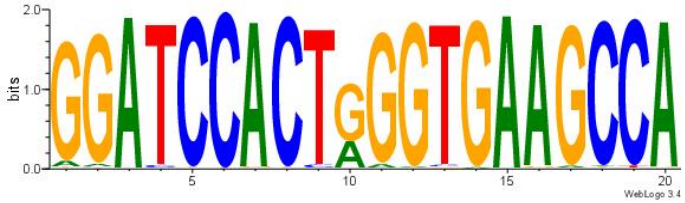

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

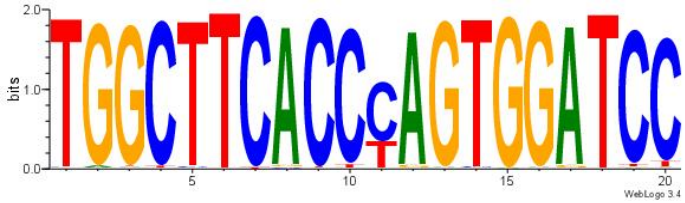

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150763

Alignment:
TACCTGAGACTGGGTAATTT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

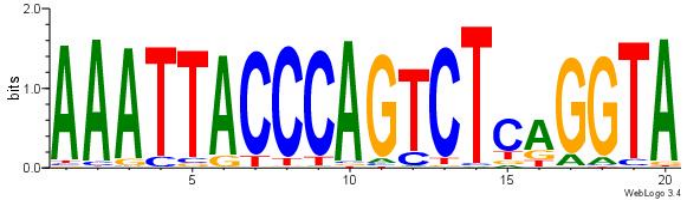

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

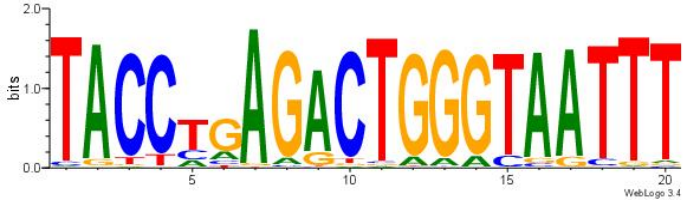

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150853

Alignment:
TGGAGAACCTTTATGTCTAG
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

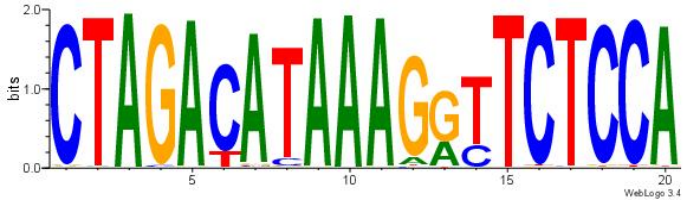

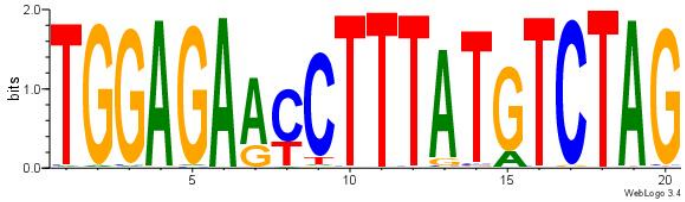

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151572

Alignment:

```
AAAAGTCCACAGTCCAAAGT
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

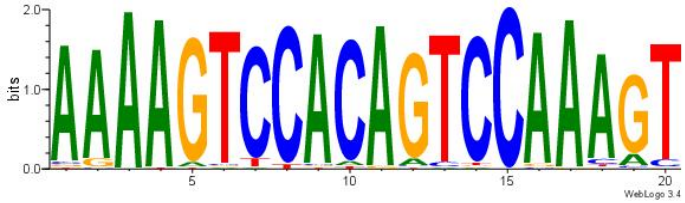

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

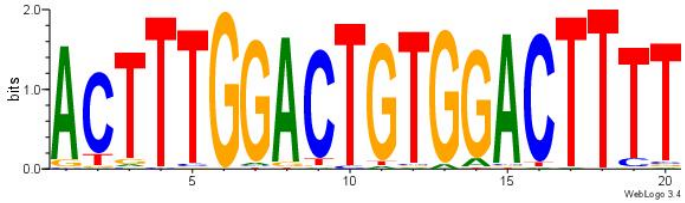

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152481

Alignment:

AAAATCACAAGCATTCCTAT

AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

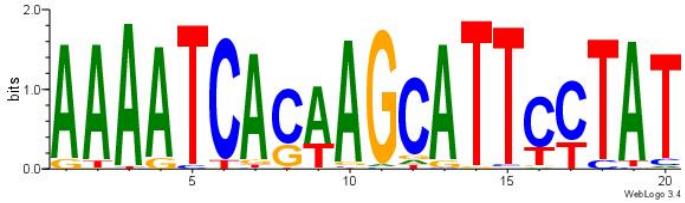

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

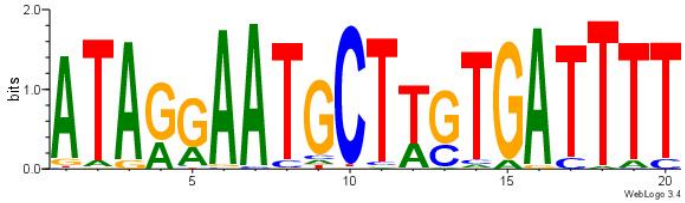

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153758

Alignment:
CACCAGACTCAGGAGCCCAG
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

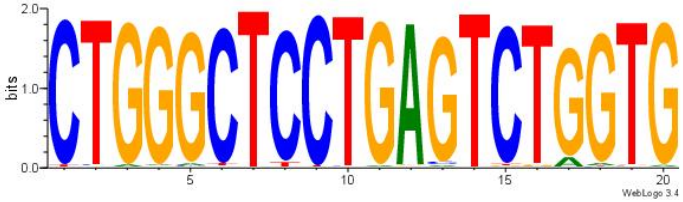

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

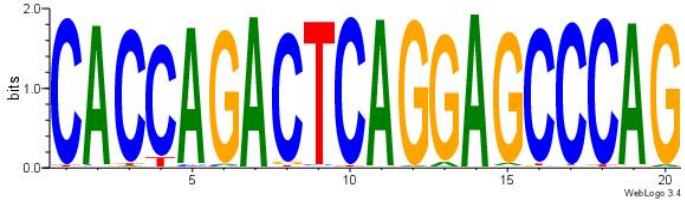

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154028

Alignment:
GTKTMTATMTACCACATTTT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

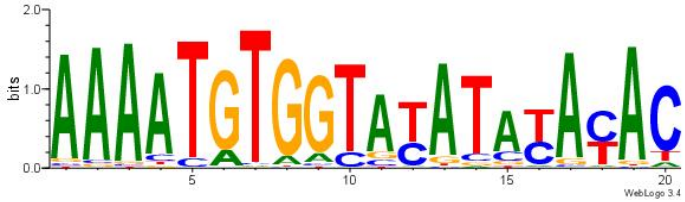

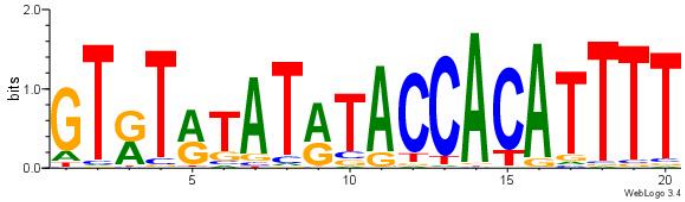

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155914

Alignment:

```
AATCAACCCTGGYRATCAAT
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

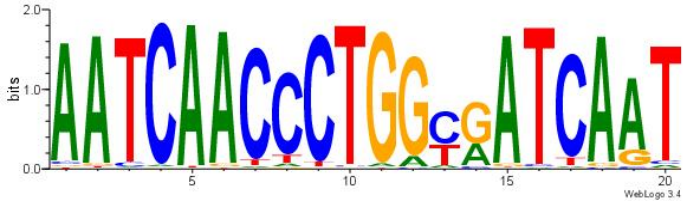

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

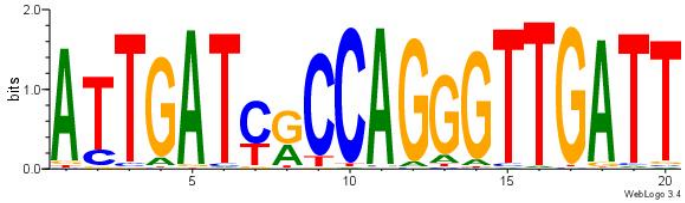

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155947

Alignment:

GGTTCATCTCACTAGGGAGT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

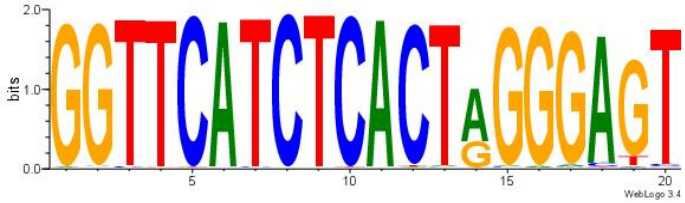

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

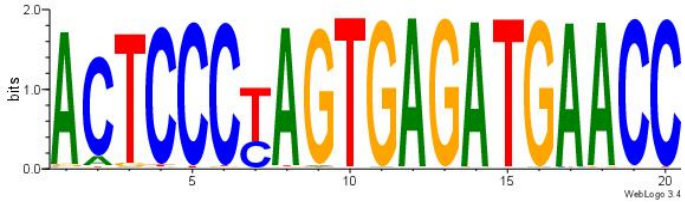

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156616

Alignment:
AAGGAACAAACTCCRGACAC
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

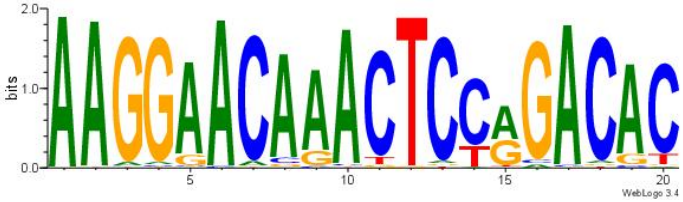

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

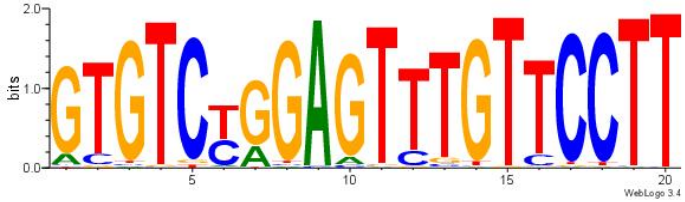

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157442

Alignment:
AWTKKTGGTTKCCAGKGGCT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

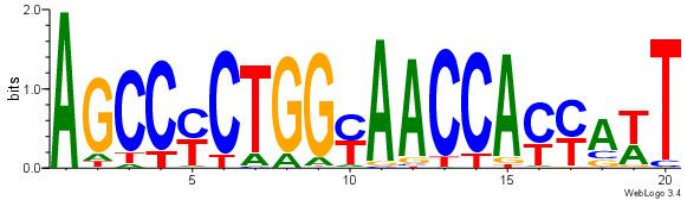

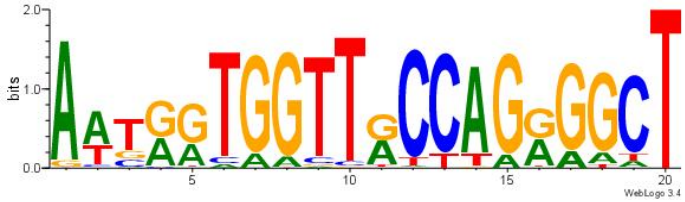

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158316

Alignment:

CTGGGCRACAGAGYRAGACY

AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

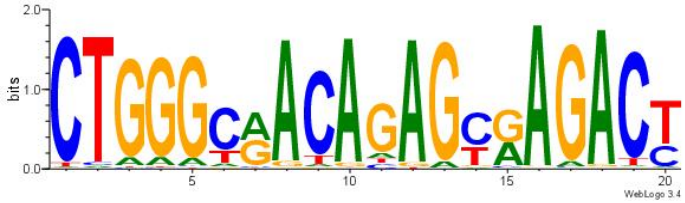

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

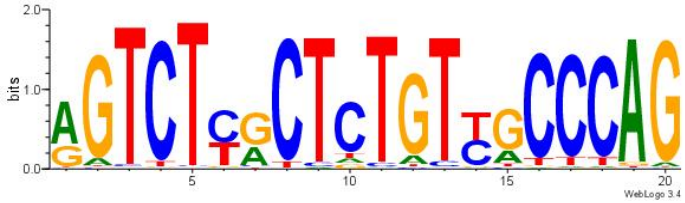

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159177

Alignment:

```
CRTGAGCCACYGYRCCYGGC
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

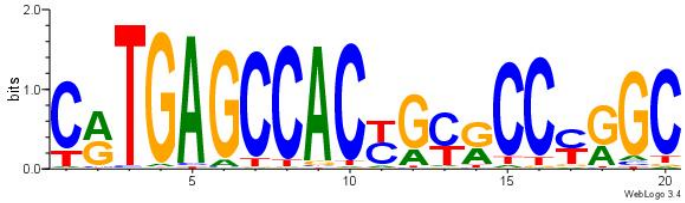

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

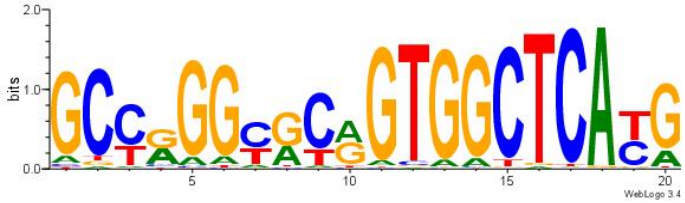

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159194

Alignment:
TCKMGCCACTGCACTCCAGC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

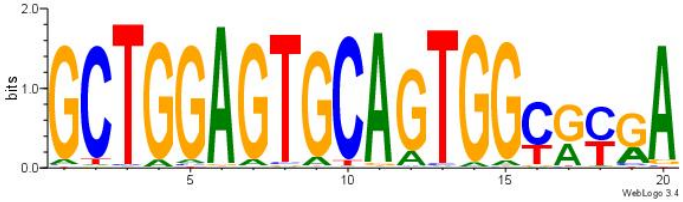

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

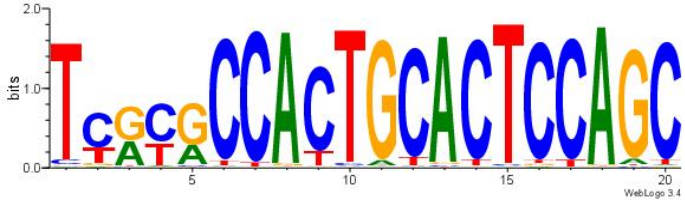

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159394

Alignment:
ACACATCACAAAGCAGTTTC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

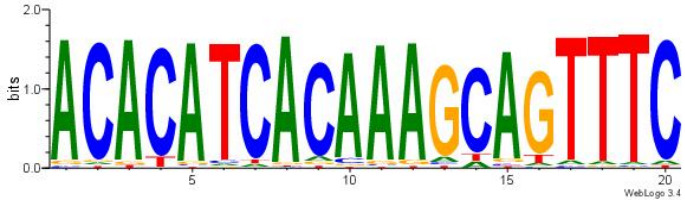

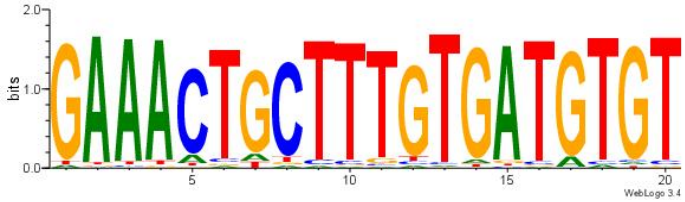

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159994

Alignment:
CAAGCCTSKGCAATGGCAGG
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

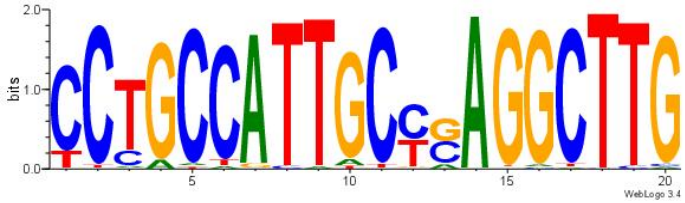

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

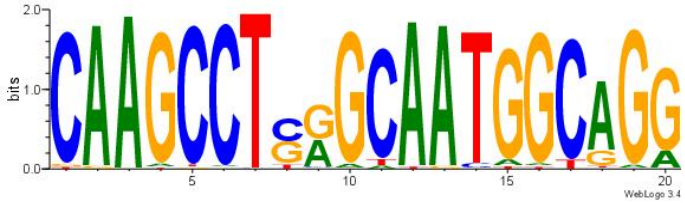

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160248

Alignment:

```
GCTCCACCCAGTTCGAGCTT
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

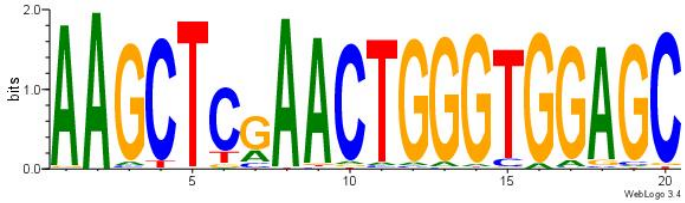

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

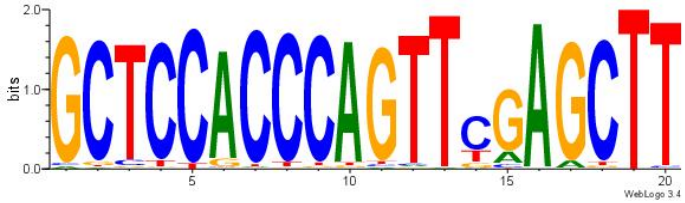

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.160451

Alignment:
ACCTGGAAAATCGGGTCACT
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

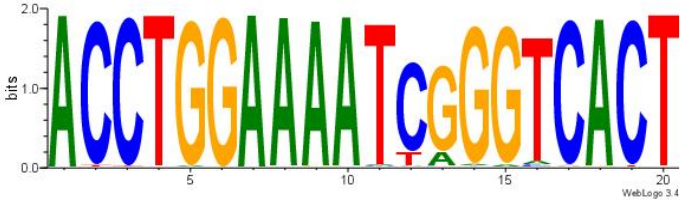

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

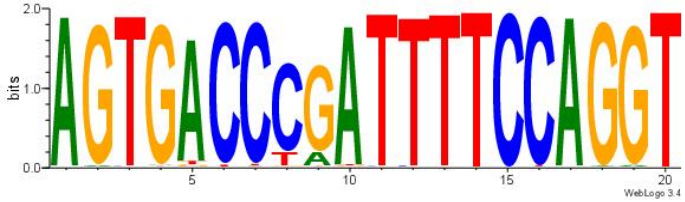

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160652

Alignment:
CAGGTGGTKTTTGGTTACAT
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

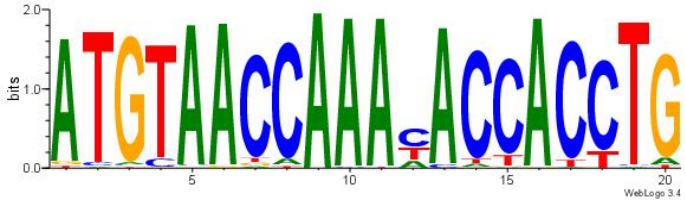

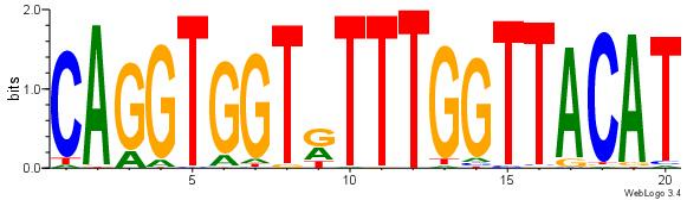

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160769

Alignment:

```
ACCCAATWTGTAGTCTTTTA
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

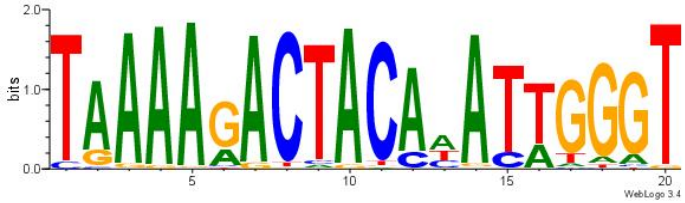

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

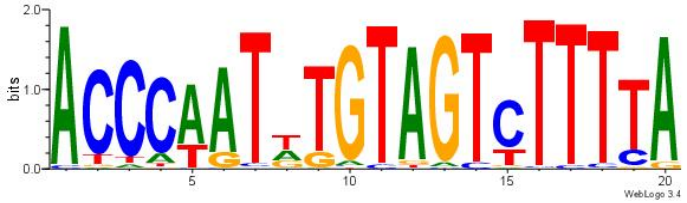

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160949

Alignment:

GCCTCTCCCTCCACACCTCC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

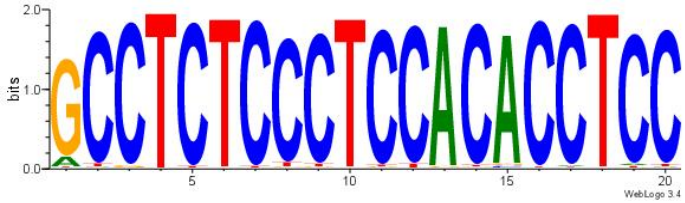

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

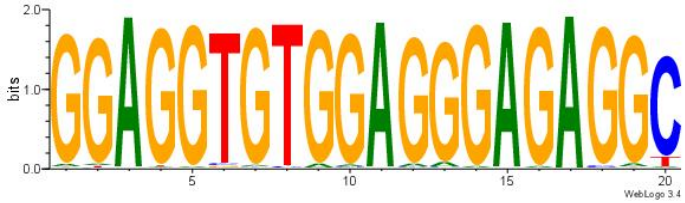

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.161136

Alignment:
CACCAGGAGATTATATCCCR
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

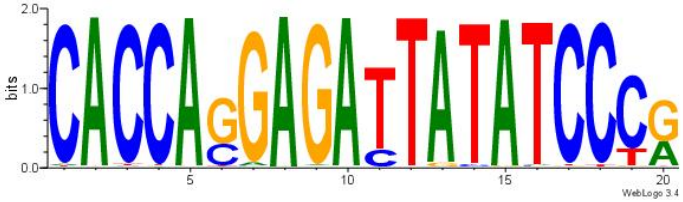

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

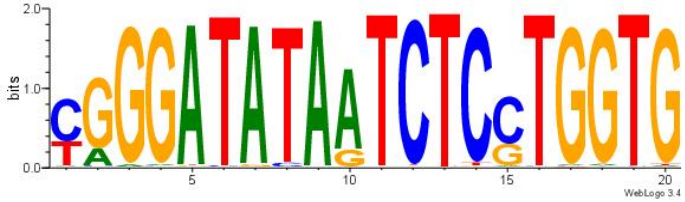

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.16128

Alignment:
AAGCTGAGGGAGCCGGCTCC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

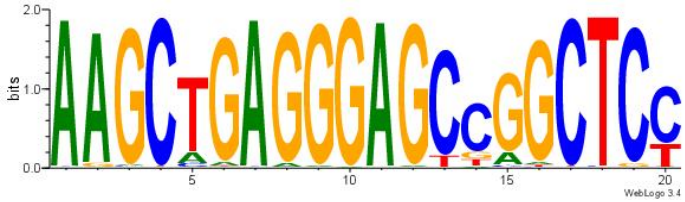

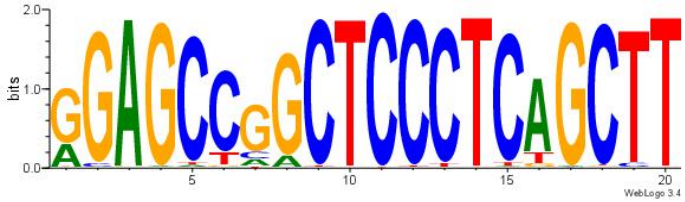

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161821

Alignment:

```
CAAGGGTATAYGAGTAGCTG
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

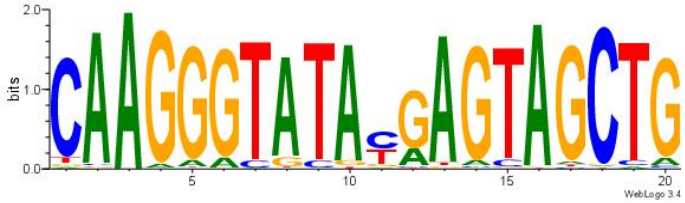

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

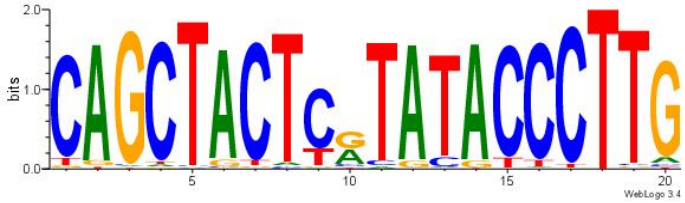

Dataset #: 1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161973

Alignment:

```
CMTAGYACAGTGCCTGGCAC
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

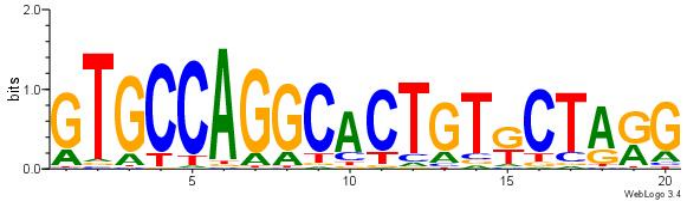

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

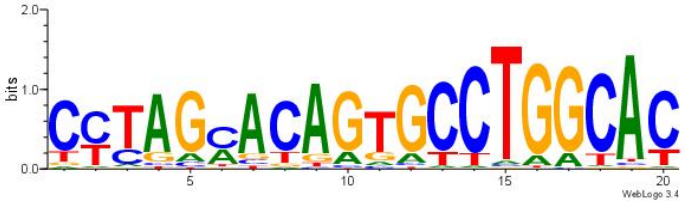

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162147

Alignment:
TYTGTCMTTTTGTGACTGGC
AGGTCCTTCAGGAGGTATTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

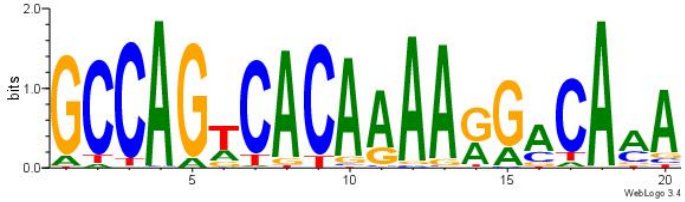

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

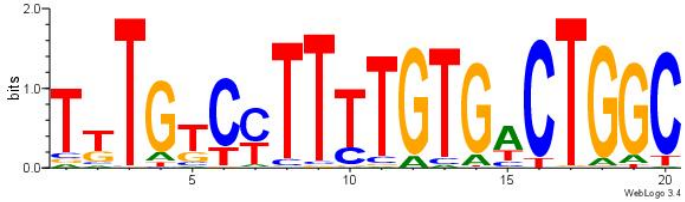

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162499

Alignment:
TAATTTTATGTGTCAACTTG
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

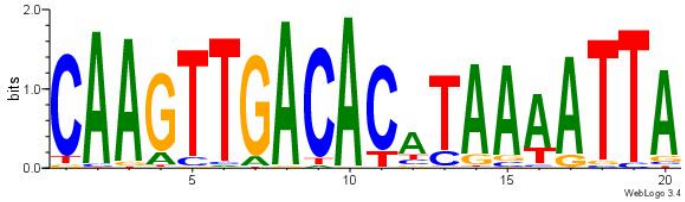

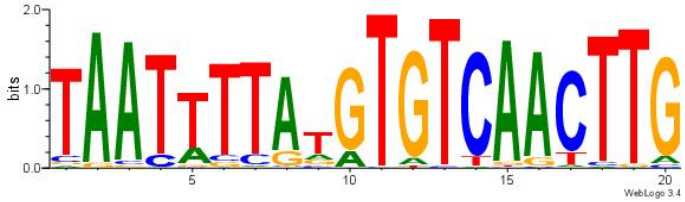

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162794

Alignment:

```
TTCAMTCATGATTTGGCTCT
GAATACCTCCTGAAGGACCT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

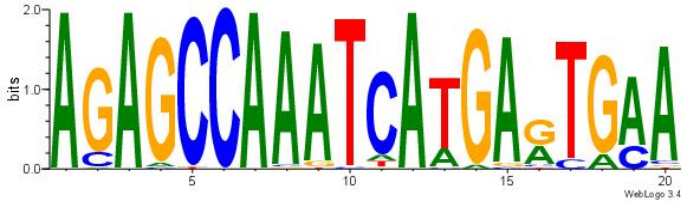

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

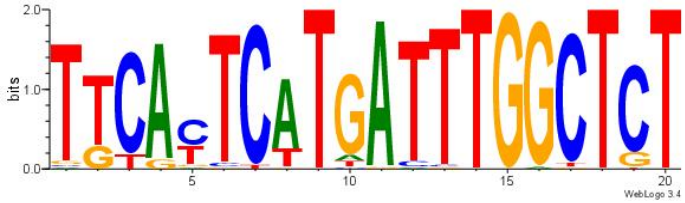

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16304

Alignment:

```
ATGATCCAGCAATYCCACTH
AGGTCCTTCAGGAGGTATTC
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

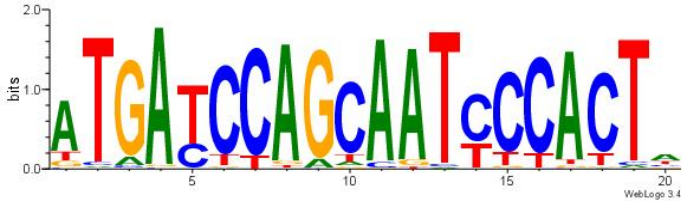

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

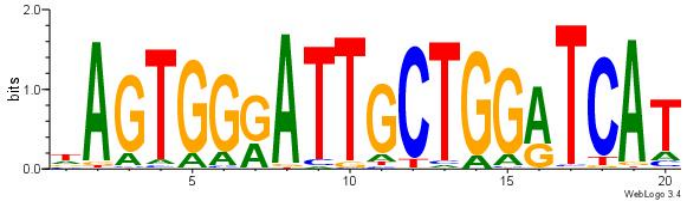

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.163691

Alignment:
GCTGGCCCGCAAGCGCCGCG
GAATACCTCCTGAAGGACCT

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

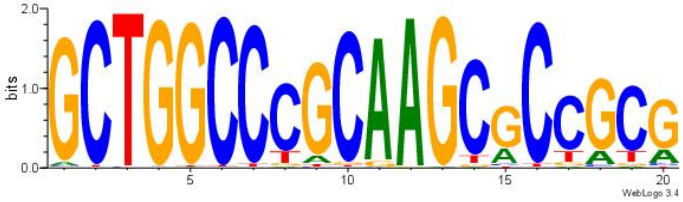

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

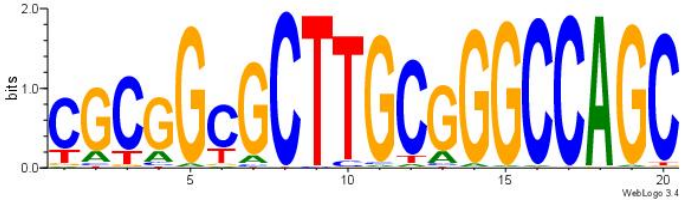

Dataset #: 1 Motif ID: 180 Motif name: Motif 180

Original motif Consensus sequence: TGCGCATGCGCA

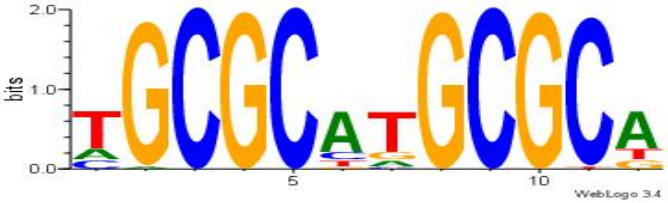

Reverse complement motif Consensus sequence: TGCGCATGCGCA

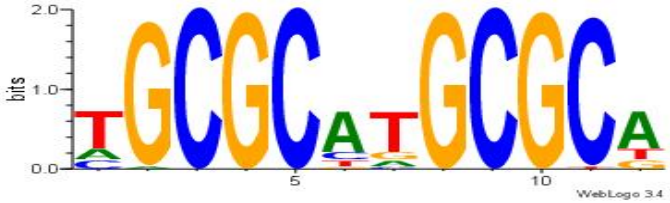

Best Matches for Motif ID 180 (Highest to Lowest)

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0728388

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
---TGCGCATGCGCA-----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

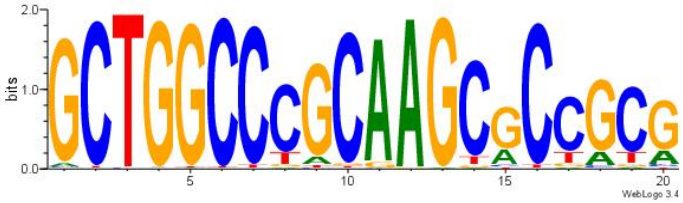

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

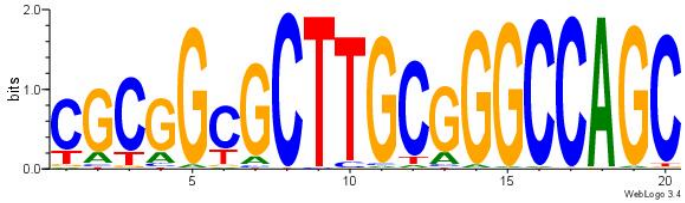

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0731846

Alignment:

```
GACATGAGCTGGCGCTTG
----TGCGCATGCGCA--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

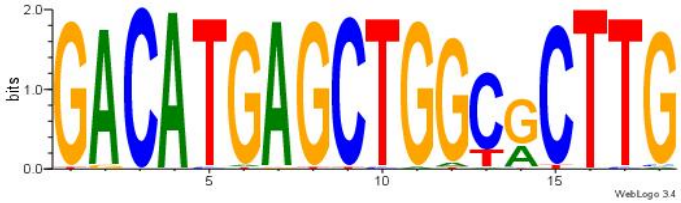

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

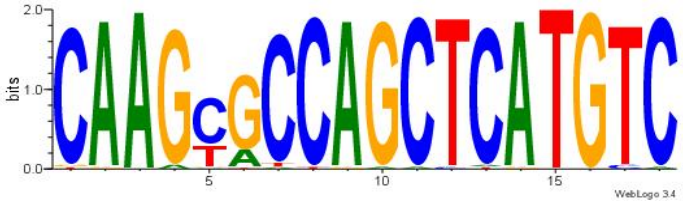

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0736063

Alignment:

```
GGGRSCACAGGAGCD
---TGCGCATGCGCA
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

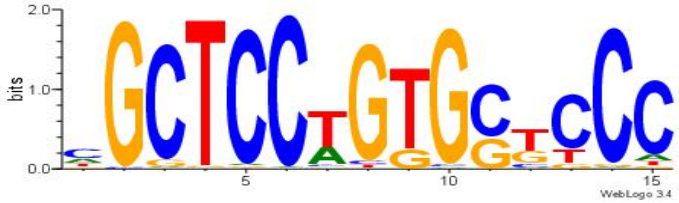

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0741066

Alignment:

```
TGCGCGCACCCAC
-TGCGCATGCGCA
```

Original motif Consensus sequence: GTGGGTGCGCGCA

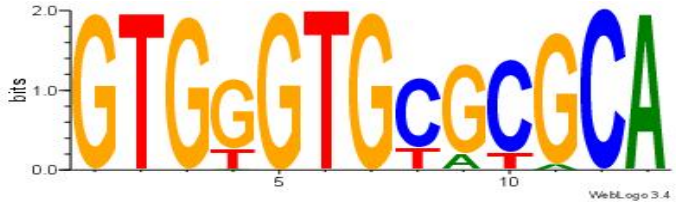

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

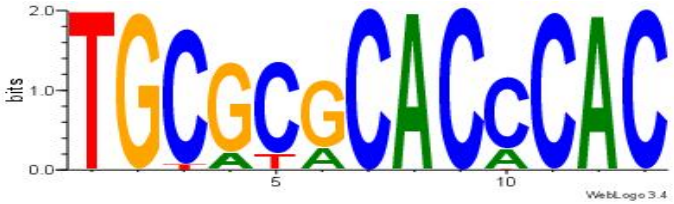

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12

Similarity score: 0.0850468

Alignment:
GGAGCCGGCTCCCTCAGCTT
TGCGCATGCGCA--------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

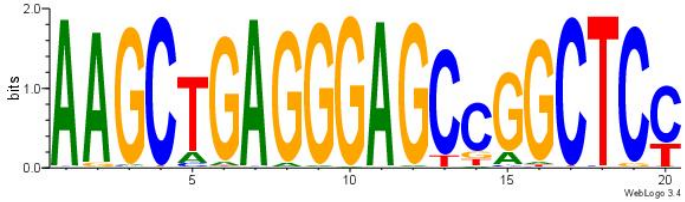

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

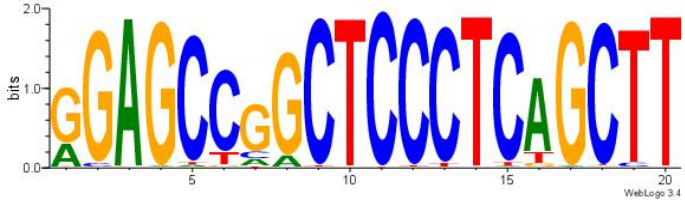

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0873673

Alignment:
GCTGGCCCKGGTGCTAAGC
----TGCGCATGCGCA---

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

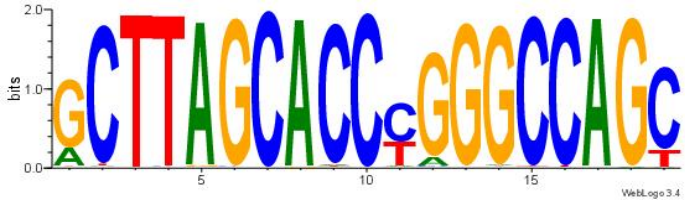

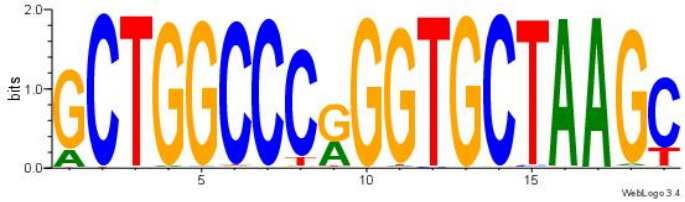

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0875137

Alignment:

```
CTTGCCCAAGGTCACACAGC
--TGCGCATGCGCA------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

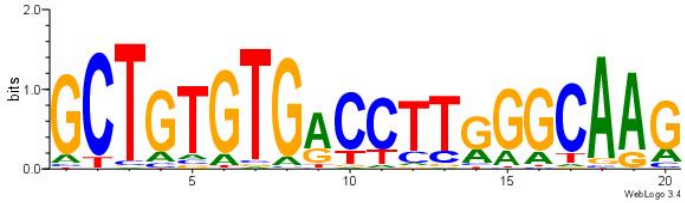

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

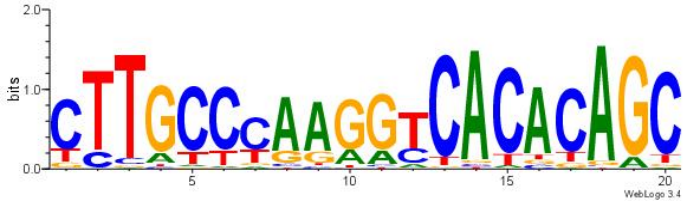

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0878873

Alignment:

```
KGGGCDGAGGGGCTCCT
--TGCGCATGCGCA---
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

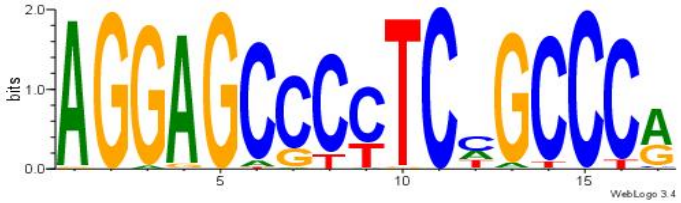

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0888683

Alignment:
CGGCTCGCGCACGG
-TGCGCATGCGCA-

Original motif Consensus sequence: CCGTGCGCGAGCCG

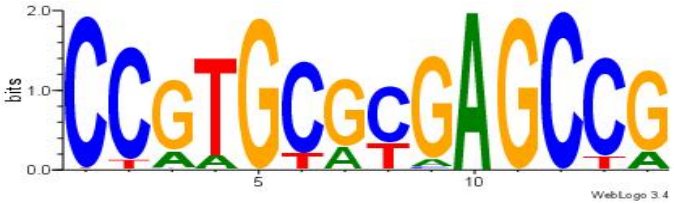

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

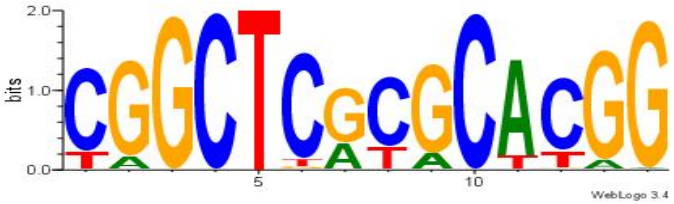

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0898063

Alignment:
CCTTGGCCAGCCCAGAAAG
-----TGCGCATGCGCA--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

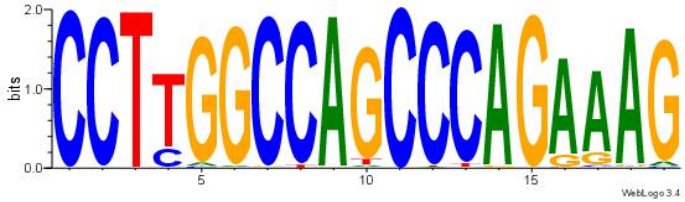

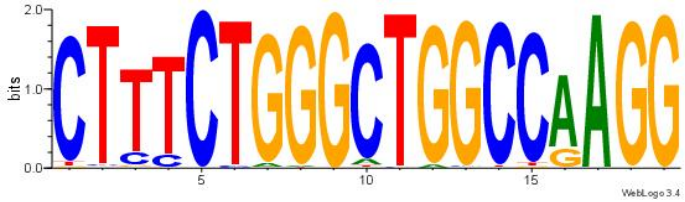

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0904934

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------TGCGCATGCGCA--
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

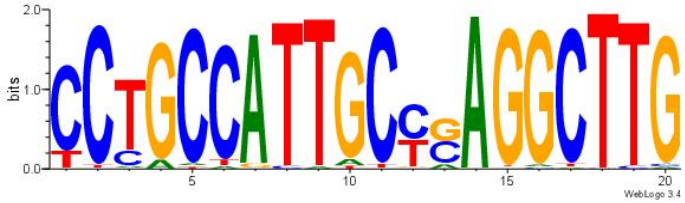

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

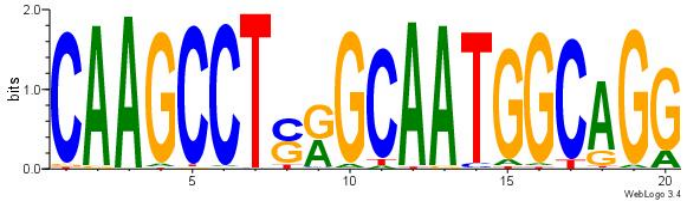

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0918755

Alignment:

```
CTTGCGCTTCCCRRGTGA
--TGCGCATGCGCA----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

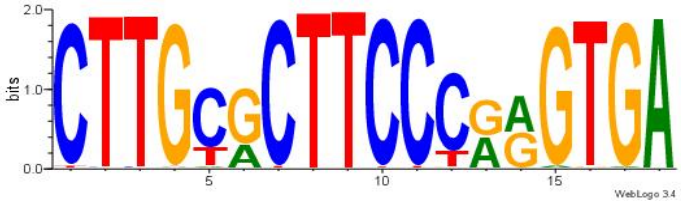

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

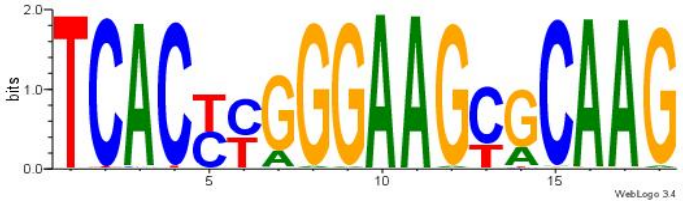

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.0922764

Alignment:
ACTCAGCCCRCCTGCACCC
-TGCGCATGCGCA------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

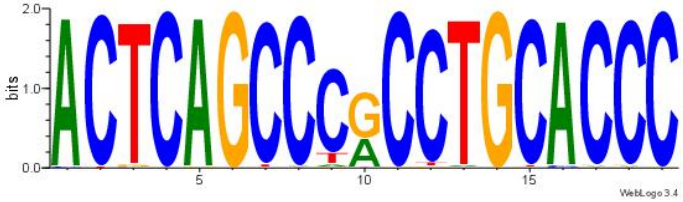

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

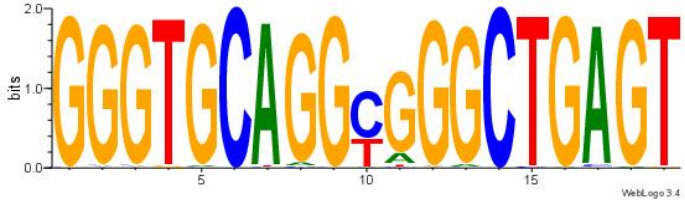

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0937896

Alignment:
AGGACTGAGGGTGCCYRGGG
-----TGCGCATGCGCA---

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

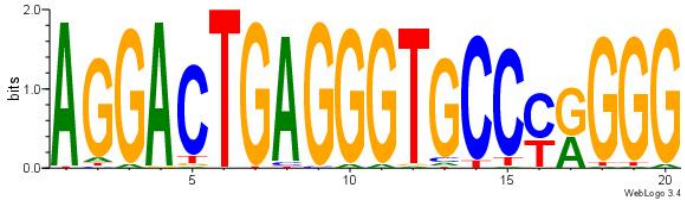

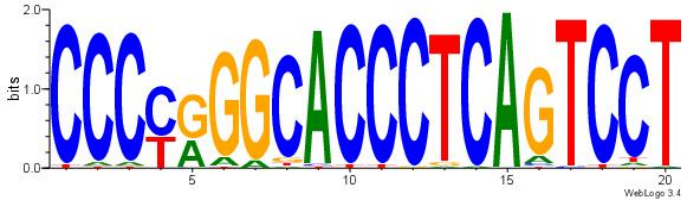

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0943697

Alignment:

```
GAGAACACATGGACA
---TGCGCATGCGCA
```

Original motif Consensus sequence: GAGAACACATGGACA

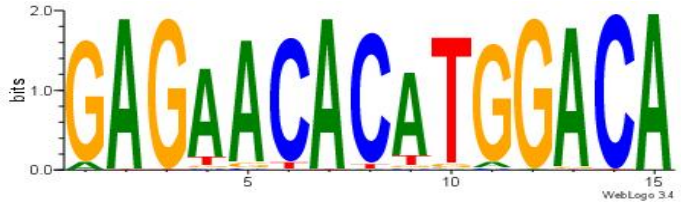

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

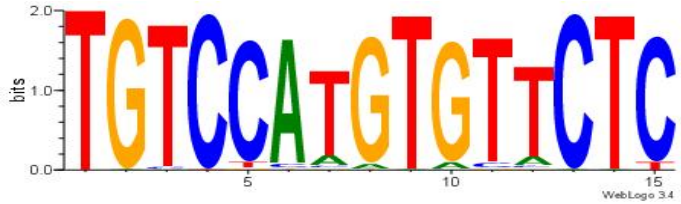

Dataset #:	1
Motif ID:	30

Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0951699

Alignment:

```
GCCGGGRAGAGGCGCTCCT
---TGCGCATGCGCA----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

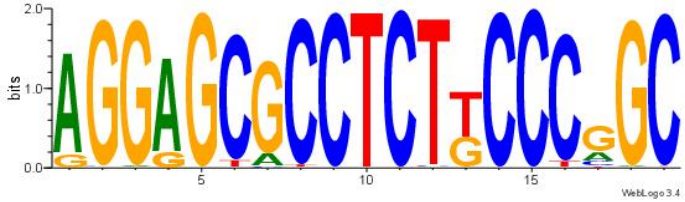

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

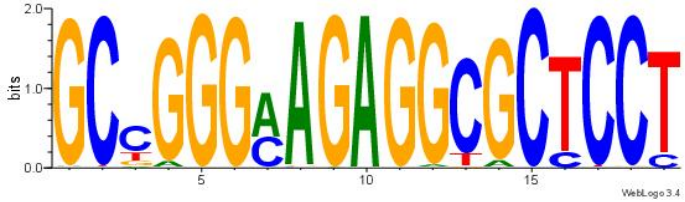

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0976576

Alignment:
GCAWSTGCAAAGGCCCT
-----TGCGCATGCGCA

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

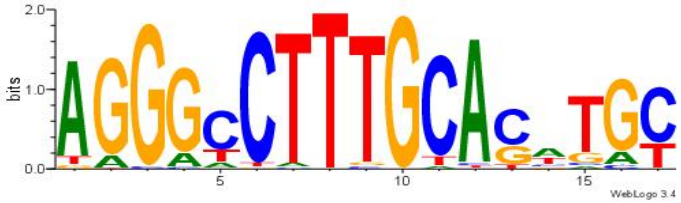

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

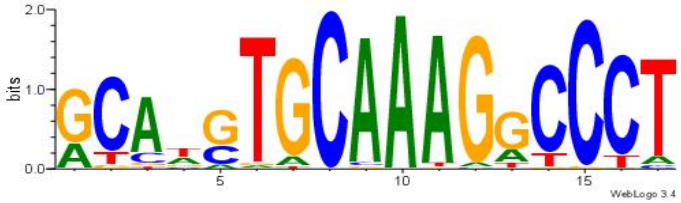

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0978567

Alignment:
CRTGAGCCACYGYRCCYGGC
--TGCGCATGCGCA------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

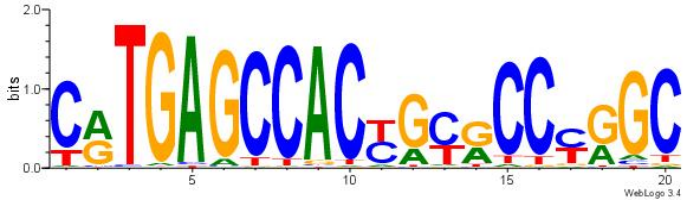

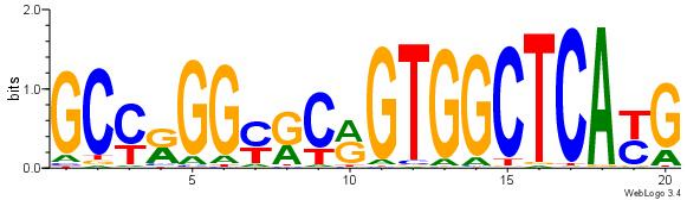

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0983943

Alignment:

```
TTTTCACATGCCTTTCT
--TGCGCATGCGCA---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

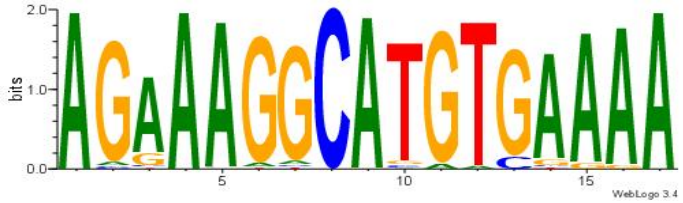

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

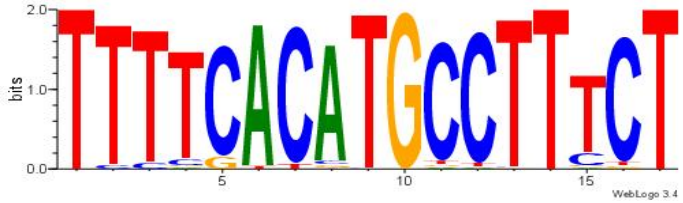

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0989434

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
--TGCGCATGCGCA------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

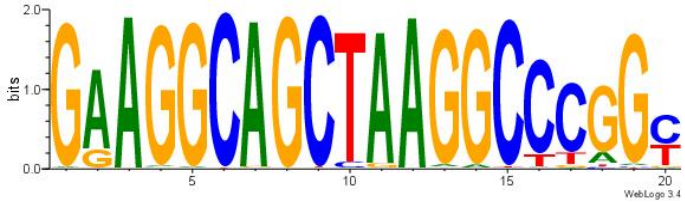

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

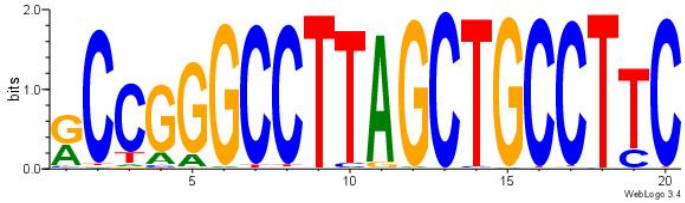

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0992662

Alignment:
AGTTCCGGGTGGGCGTGGG
---TGCGCATGCGCA----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

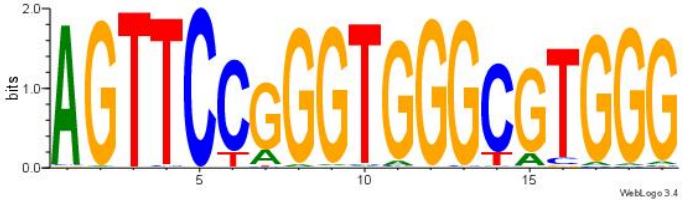

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

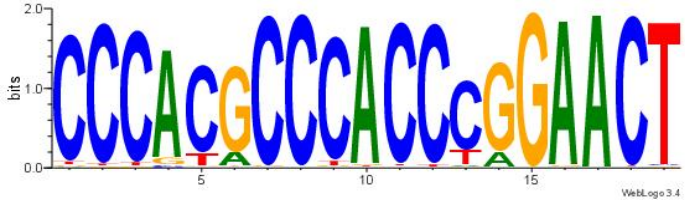

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0999085

Alignment:
GCTGGAGTGCAGTGGCRYGA
-----TGCGCATGCGCA---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

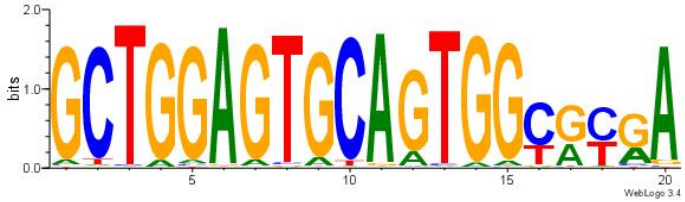

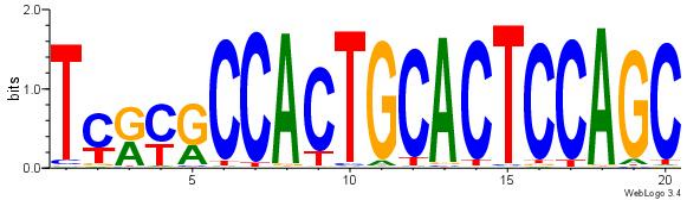

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.100235

Alignment:

```
AAATTACCCAGTCTCAGGTA
----TGCGCATGCGCA----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

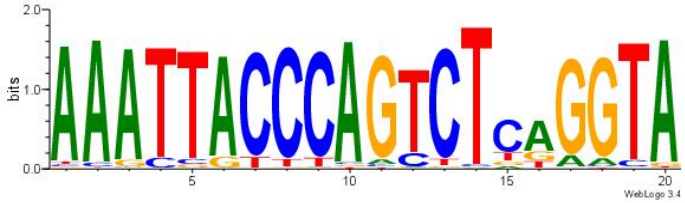

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

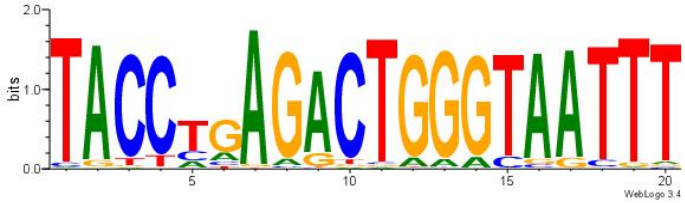

Dataset #:	1

Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.100363

Alignment:

```
CAGGCGGCTGGGAG
--TGCGCATGCGCA
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

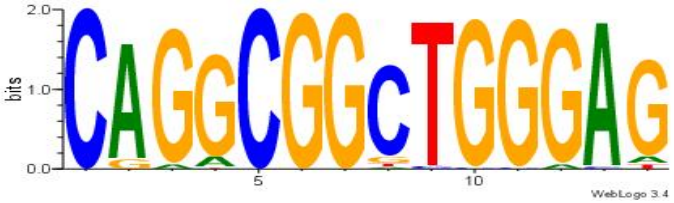

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

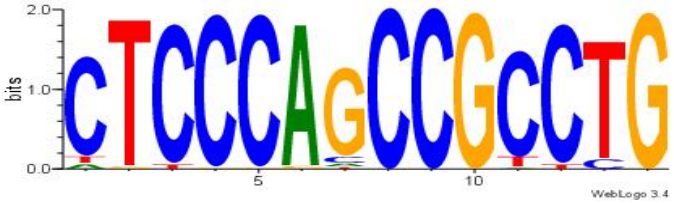

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.100978

Alignment:
TGCTCACACAAAGCCTGT
TGCGCATGCGCA------

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

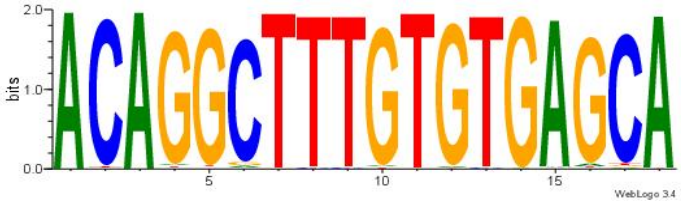

Reverse complement motif Consensus sequence:
TGCTCACACAAAGCCTGT

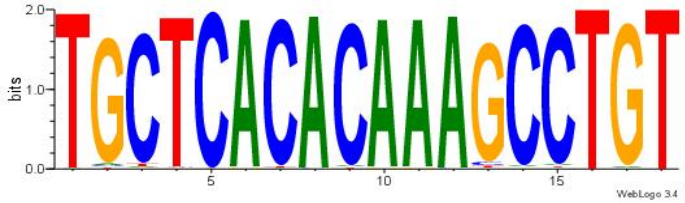

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.101313

Alignment:
AGCTCCCAGCGTGAGCGACG
-----TGCGCATGCGCA---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

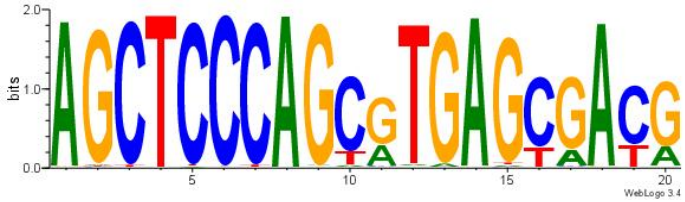

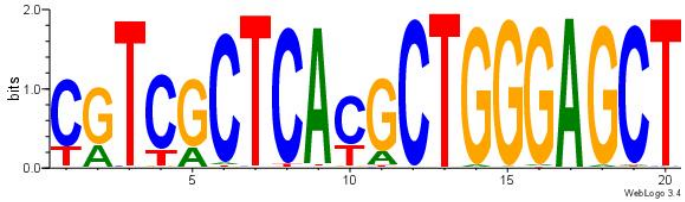

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.101603

Alignment:

```
ATCTGACAGGAGGYRGAGCT
TGCGCATGCGCA--------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

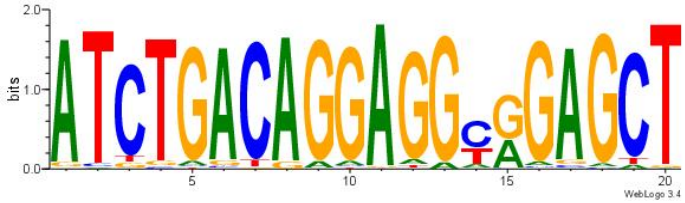

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

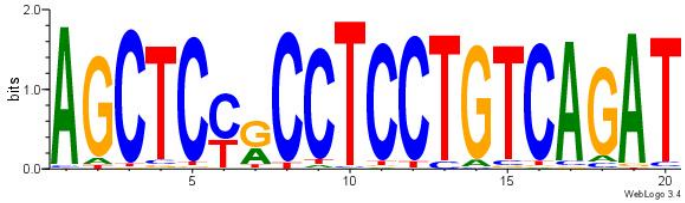

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.101901

Alignment:

```
ACTGTCTTCCACCTCCACAT
-------TGCGCATGCGCA-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

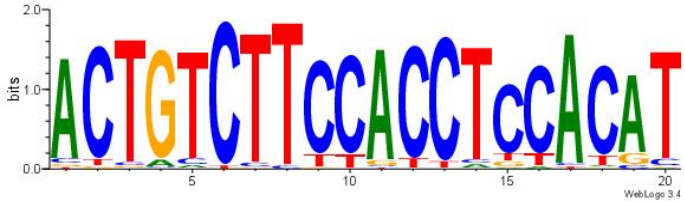

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

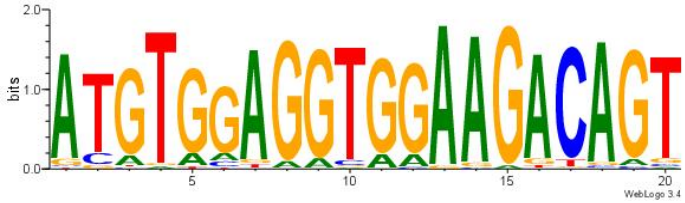

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.102413

Alignment:
AGGCGGCTGGGAGG
-TGCGCATGCGCA-

Original motif Consensus sequence: AGGCGGCTGGGAGG

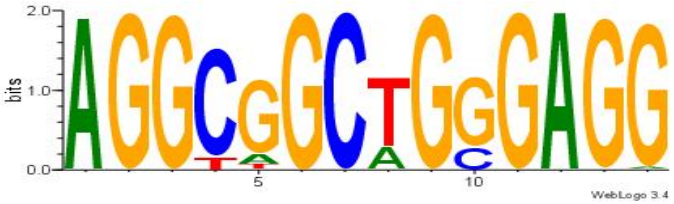

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #: 1
Motif ID: 150
Motif name: Motif 150
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.102581

Alignment:
TGTGCTAGCAAT
TGCGCATGCGCA

Original motif Consensus sequence: ATTGCTAGCACA

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

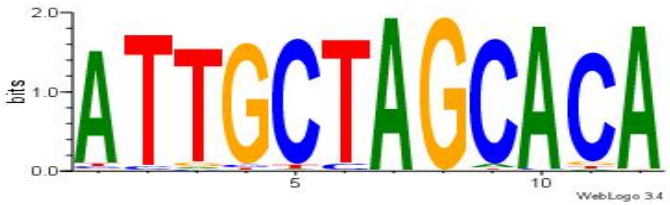

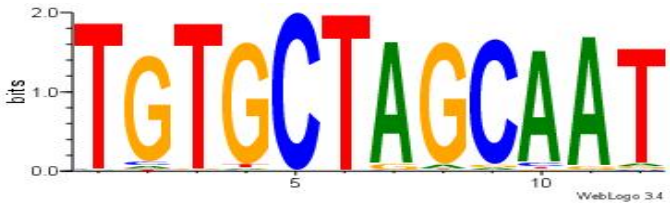

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.103379

Alignment:

```
GGMGCKGTGGCTC
-TGCGCATGCGCA
```

Original motif Consensus sequence: GAGCCACYGCRCC

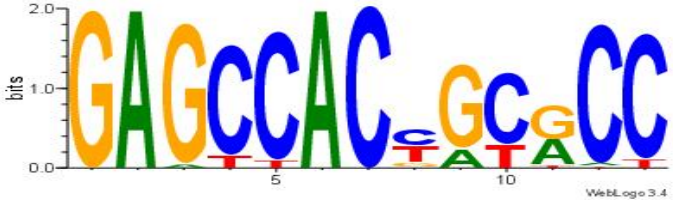

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	65

Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.104147

Alignment:

```
AGAAATCGAGCRCAGCGCCG
--------TGCGCATGCGCA
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

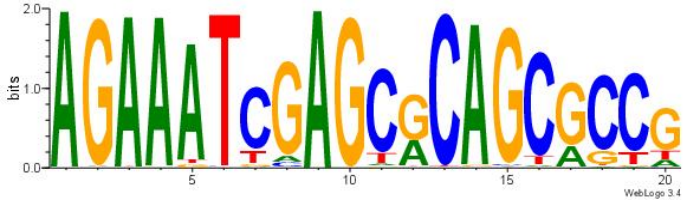

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

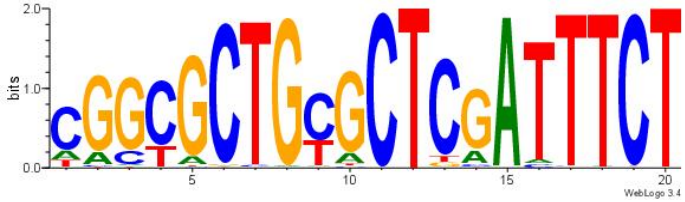

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.104281

Alignment:
CACCAGACTCAGGAGCCCAG
-----TGCGCATGCGCA---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

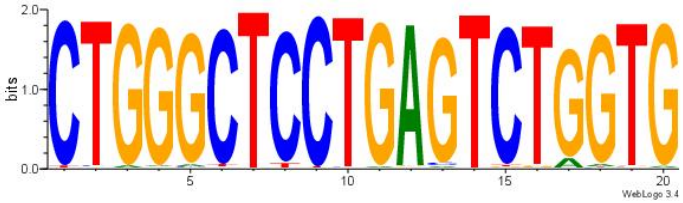

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

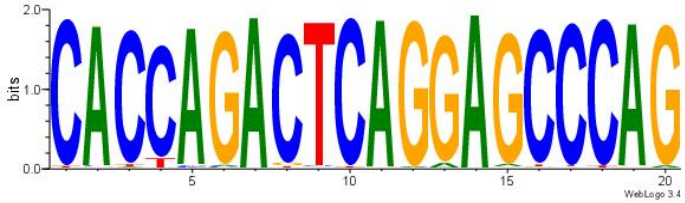

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.104756

Alignment:
AAAGCTGGAGCTATTATCTA
TGCGCATGCGCA--------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

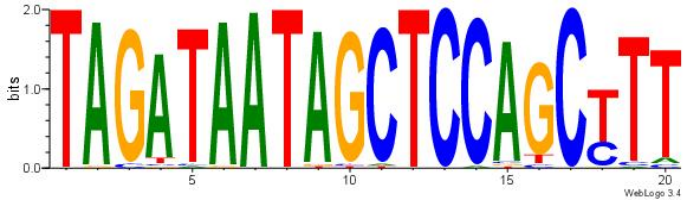

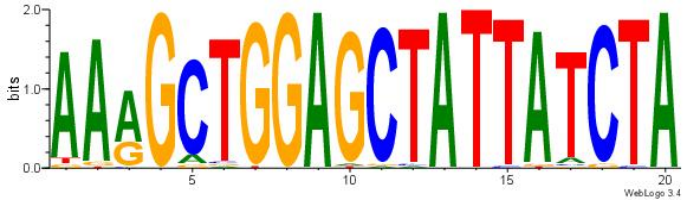

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.104768

Alignment:

```
ACACACAYACACACACACA
-TGCGCATGCGCA------
```

Original motif Consensus sequence: ACACACAYACACACACACA

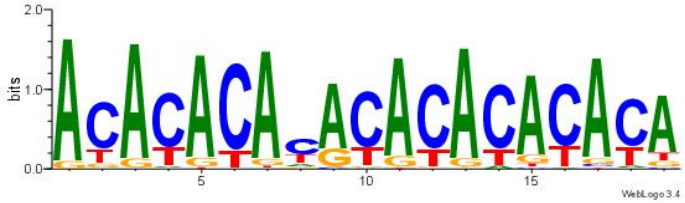

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

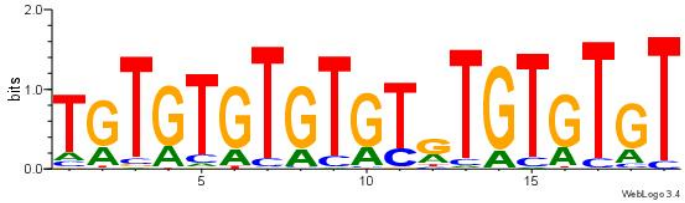

Dataset #: 1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.104883

Alignment:

```
TGATACCCAGGCAAACAG
---TGCGCATGCGCA---
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

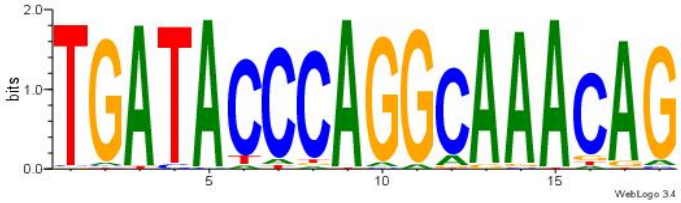

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

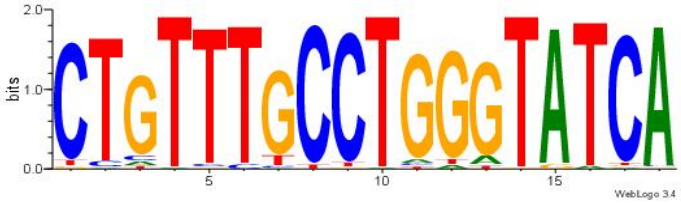

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12

Similarity score: 0.105

Alignment:
ATCRCTTGAGSYCAGGAGKT
TGCGCATGCGCA--------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

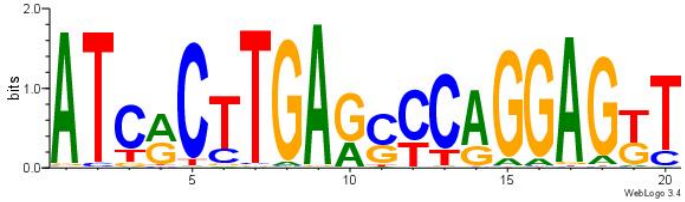

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

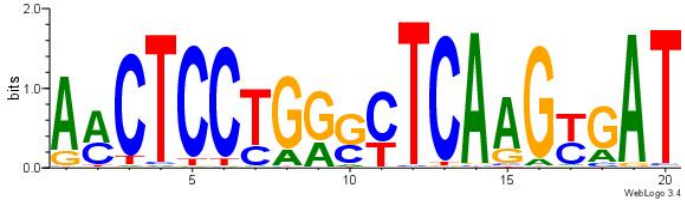

Dataset #: 1
Motif ID: 323
Motif name: Motif 323
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.105547

Alignment:
TGGACCTGAGAGC
TGCGCATGCGCA-

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

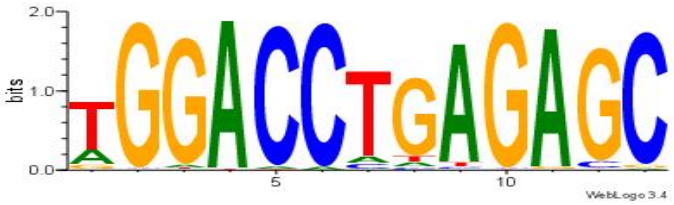

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.105695

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
TGCGCATGCGCA--------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

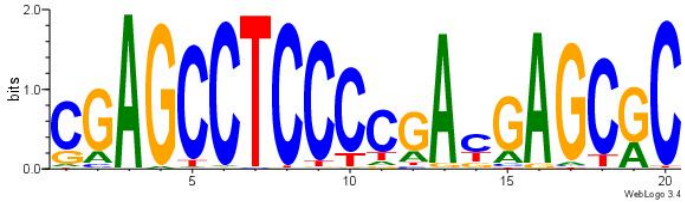

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

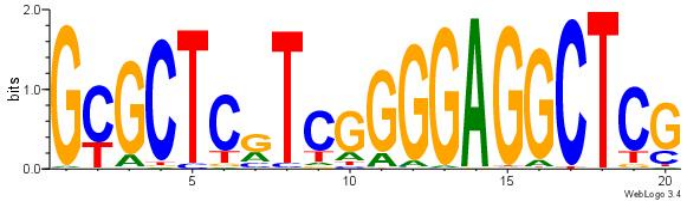

Dataset #:	1

Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.106061

Alignment:

```
TGGGCTGCCAGATG
TGCGCATGCGCA--
```

Original motif Consensus sequence: CATCTGGCAGCCCA

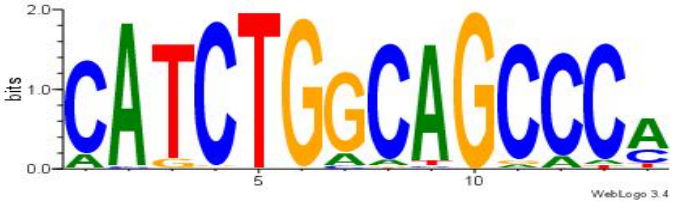

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

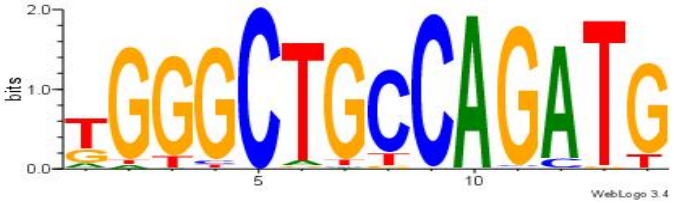

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.106232

Alignment:
GCGMGCGGGAACCGGGGCT
-TGCGCATGCGCA------

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

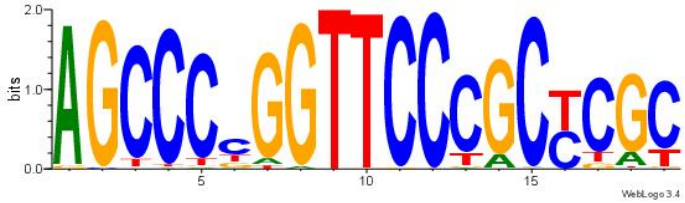

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

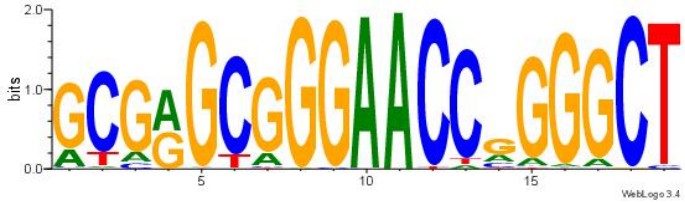

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.106435

Alignment:
AACTGAGGCTCAGAGA
TGCGCATGCGCA----

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

Reverse complement motif Consensus sequence:
AACTGAGGCTCAGAGA

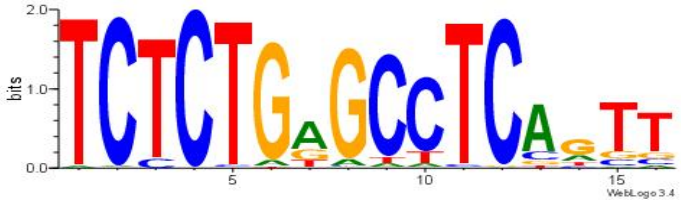

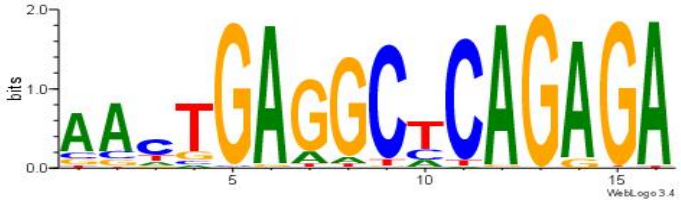

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.106937

Alignment:

```
GGAGCCCACGGAGG
--TGCGCATGCGCA
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

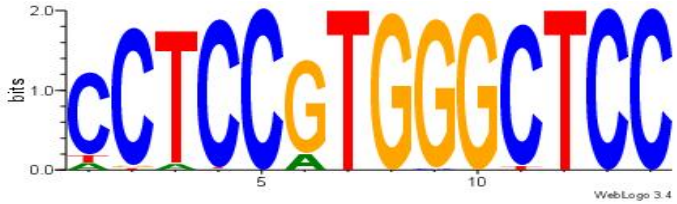

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

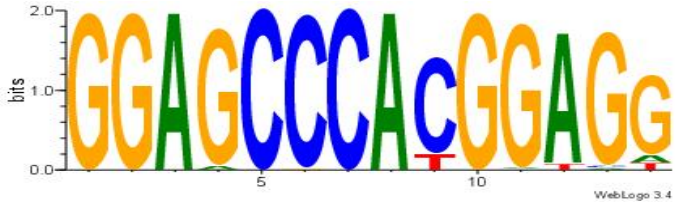

Dataset #:	1
Motif ID:	177

Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107045

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--------TGCGCATGCGCA
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

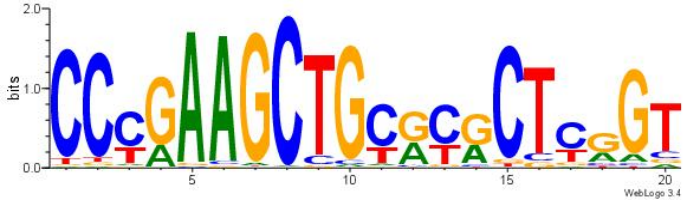

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

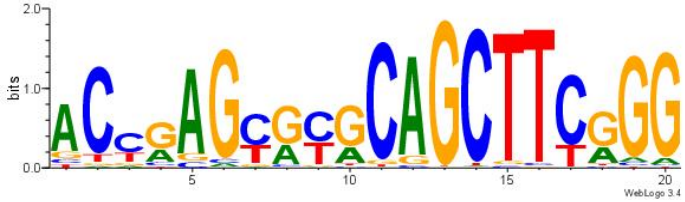

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.107191

Alignment:
ACACCTATTCGCACAC
-TGCGCATGCGCA---

Original motif Consensus sequence: ACACCTATTCGCACAC

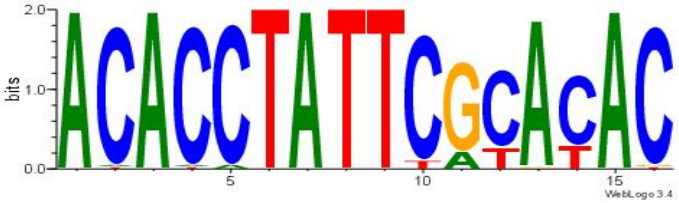

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

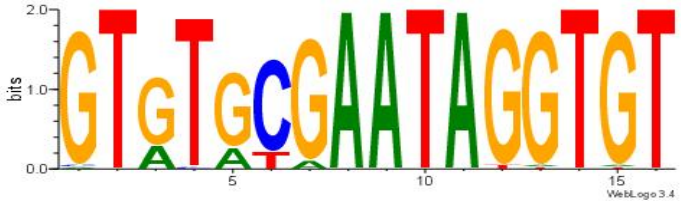

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.107364

Alignment:
TGCTGCTGCTGC
TGCGCATGCGCA

Original motif Consensus sequence: GCAGCAGCAGCA

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

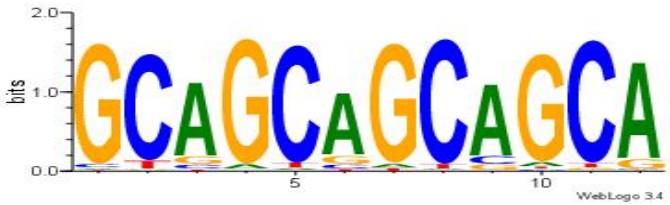

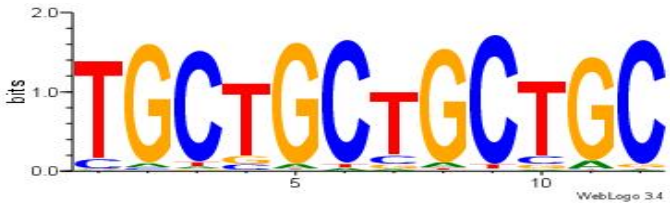

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.108263

Alignment:

```
GTGTCCCCTTCCTCCC
---TGCGCATGCGCA-
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

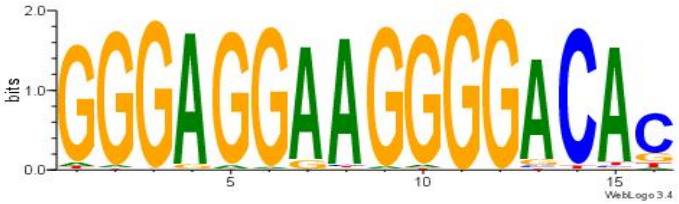

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

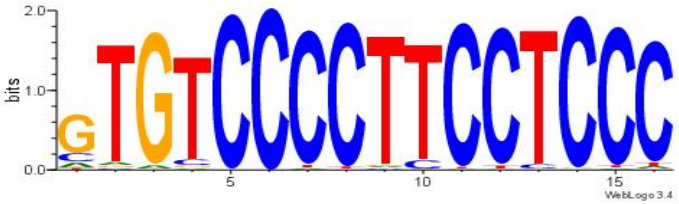

Dataset #:	1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.108577

Alignment:

```
CAGACTGCCTCCTCAA
---TGCGCATGCGCA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

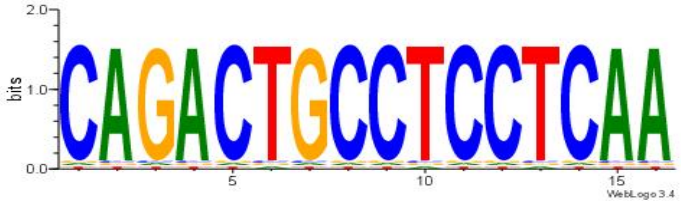

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

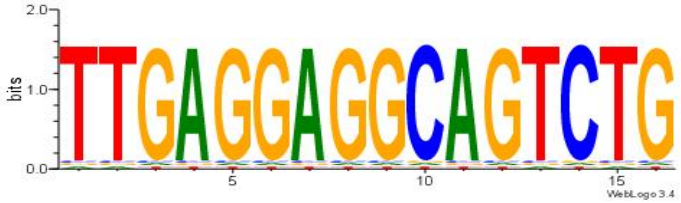

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.109378

Alignment:
ACATCCCAGACGATGGGCG
-------TGCGCATGCGCA

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

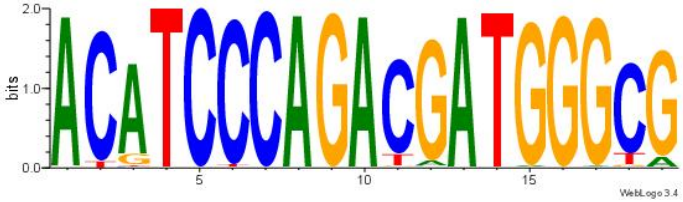

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

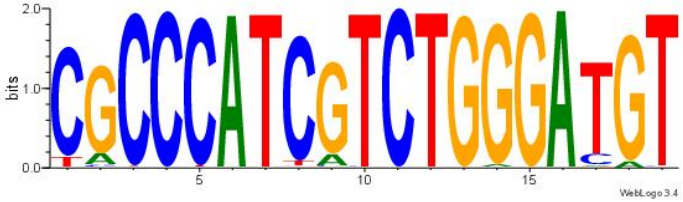

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.109743

Alignment:
VMATTTAKTGAGCACCTACT
TGCGCATGCGCA--------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

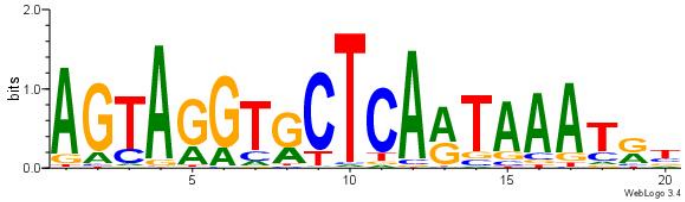

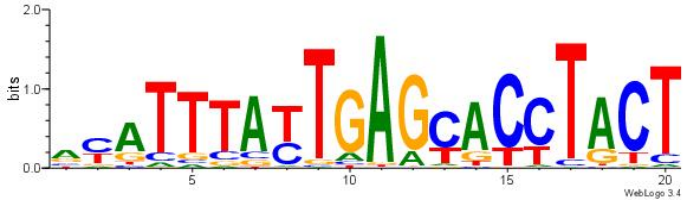

Dataset #: 1 Motif ID: 181 Motif name: Motif 181

Original motif Consensus sequence: AAATGCAAAT

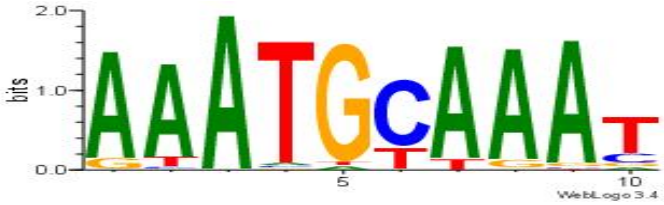

Reverse complement motif Consensus sequence: ATTTGCATTT

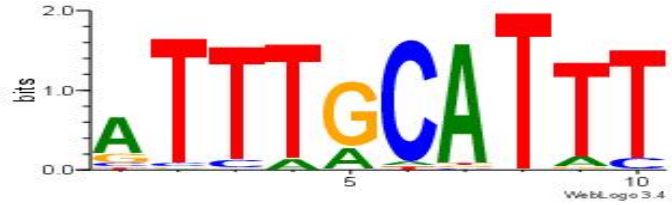

Best Matches for Motif ID 181 (Highest to Lowest)

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0560732

Alignment:

```
AGGGCCTTTGCASWTGC
-----ATTTGCATTT--
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

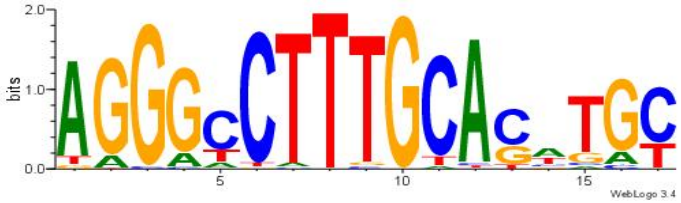

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

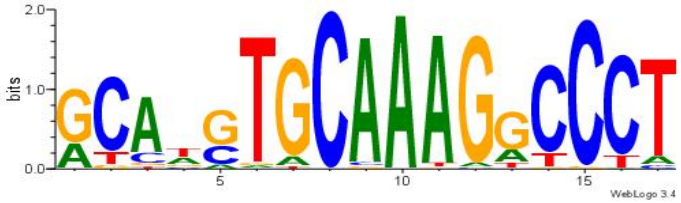

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0591841

Alignment:

```
GTACCTCAGWTGGAAATG
-AAATGCAAAT-------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

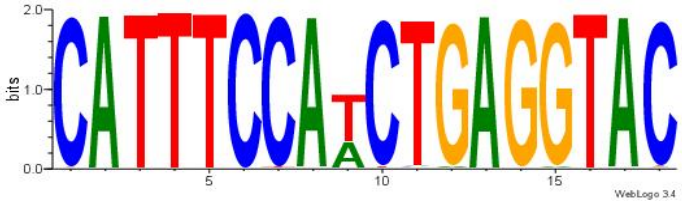

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

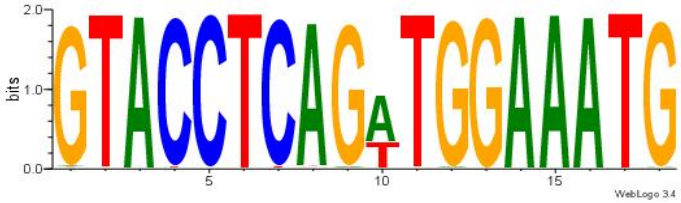

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0615448

Alignment:

```
GTTAACTGTAAAACAGCCT
---AAATGCAAAT------
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

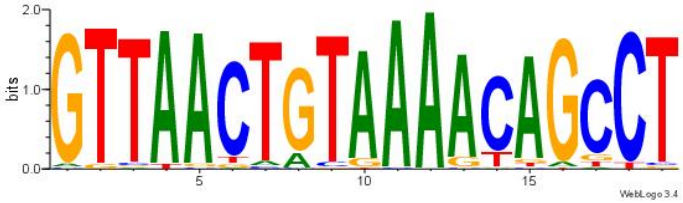

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

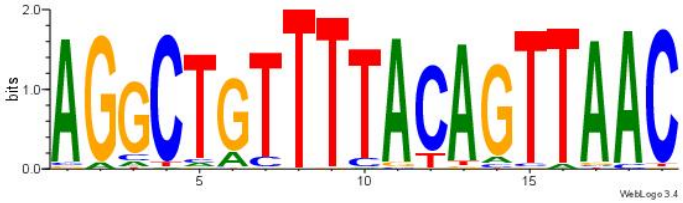

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 10
Similarity score: 0.0631714

Alignment:
CTCAGGAATGGAAAACC
-----AAATGCAAAT--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

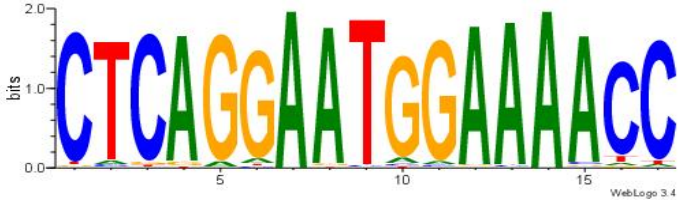

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

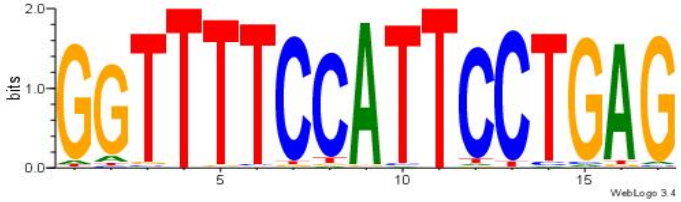

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 10
Similarity score: 0.0657257

Alignment:
ATTGGTGTATTTACAATCCC
--ATTTGCATTT--------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

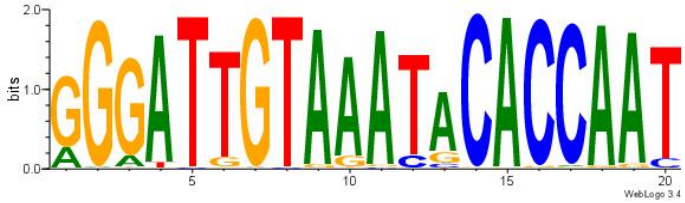

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.066761

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
---------ATTTGCATTT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

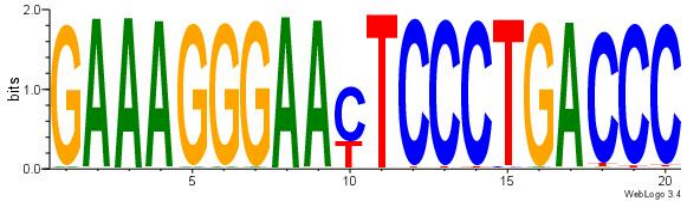

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

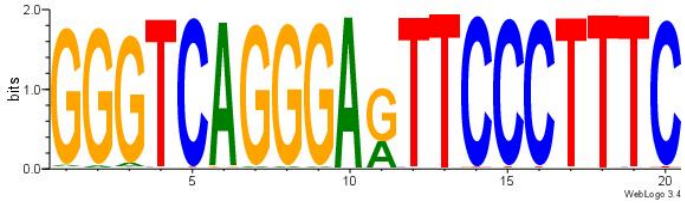

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0668321

Alignment:

```
AGCAGCTGTAAATA
---AAATGCAAAT-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

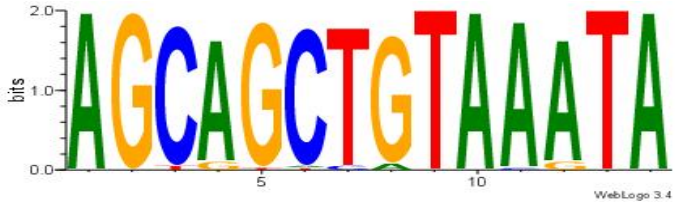

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

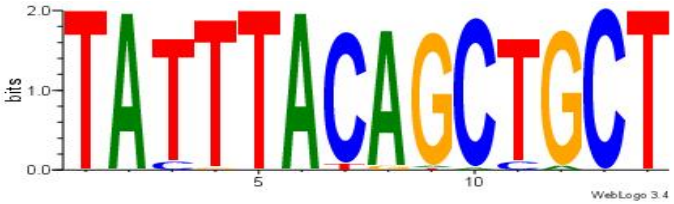

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0689434

Alignment:
CAAAGGCATAAGAATGAT
-AAATGCAAAT-------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

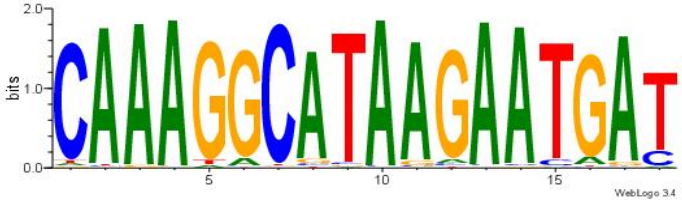

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

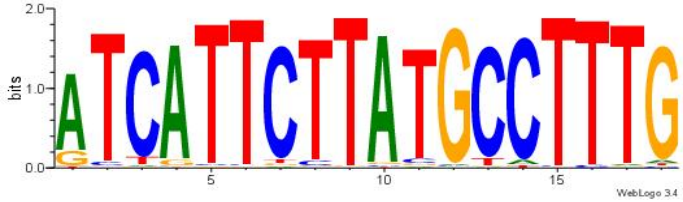

Dataset #: 1
Motif ID: 281
Motif name: Motif 281
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0699986

Alignment:
AAATGGAATCAT
AAATGCAAAT--

Original motif Consensus sequence: AAATGGAATCAT

Reverse complement motif Consensus sequence: ATGATTCCATTT

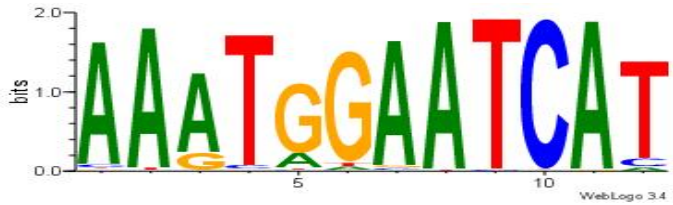

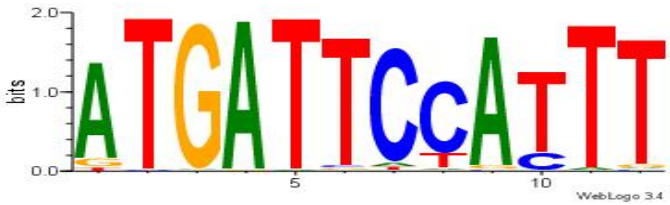

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0715764

Alignment:

```
GGATTTMKGACTTGCATGGG
---------ATTTGCATTT-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

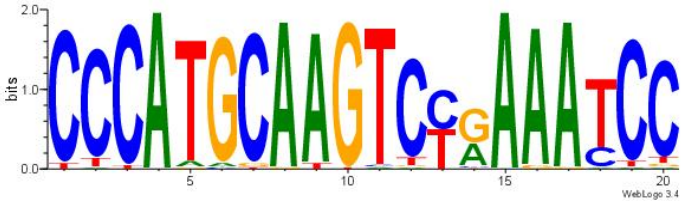

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

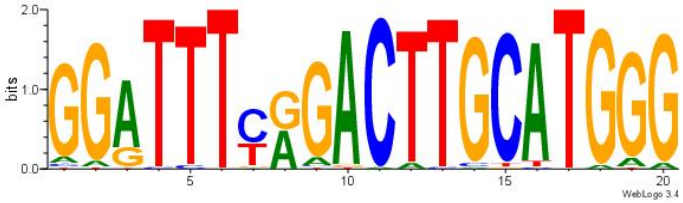

Dataset #: 1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0729746

Alignment:

```
MGAAGGGACTTGCCTTGT
-------ATTTGCATTT-
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

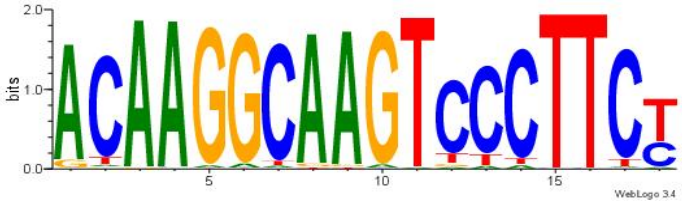

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

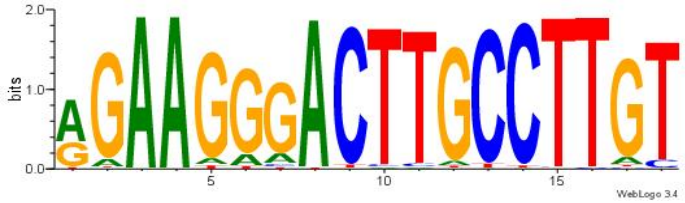

Dataset #:	1
Motif ID:	314
Motif name:	Motif 314
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.073976

Alignment:
GGAACGCACAT
-AAATGCAAAT

Original motif Consensus sequence: GGAACGCACAT

Reverse complement motif Consensus sequence: ATGTGCGTTCC

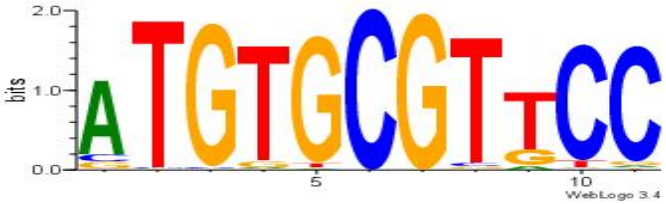

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.0754023

Alignment:
GAAHCAACCKAAKTGTCCAT
AAATGCAAAT----------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

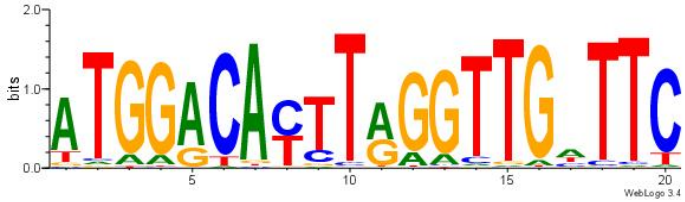

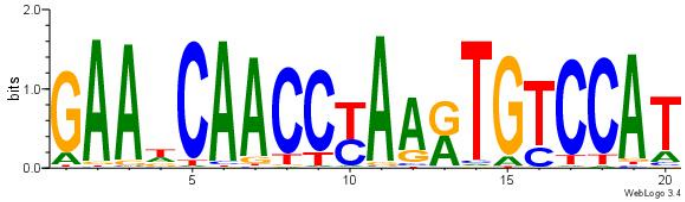

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0763856

Alignment:

```
AGAAAGGCATGTGAAAA
--AAATGCAAAT-----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

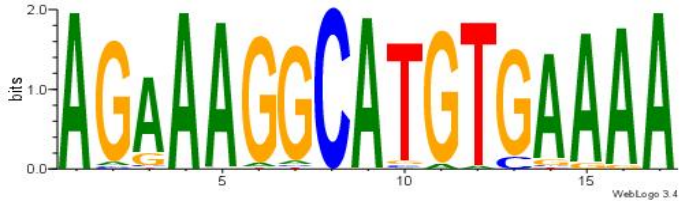

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

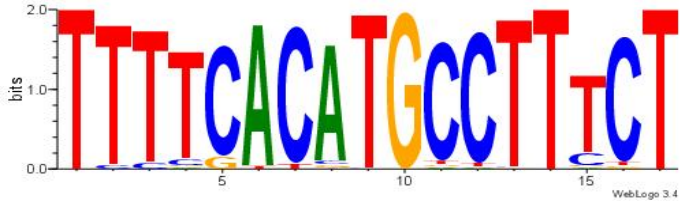

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0766486

Alignment:

```
TTCAMTCATGATTTGGCTCT
----------ATTTGCATTT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

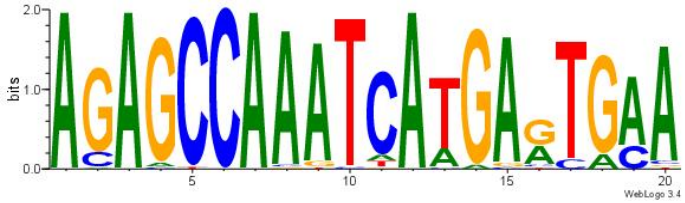

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

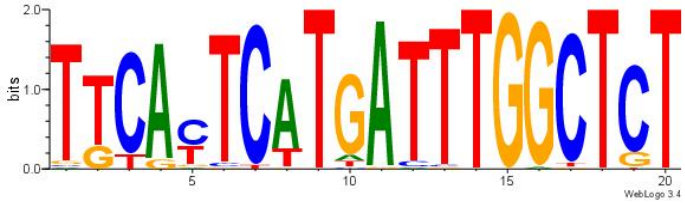

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0769216

Alignment:
CAMTTAGCATAATG
--ATTTGCATTT--

Original motif Consensus sequence: CATTATGCTAARTG

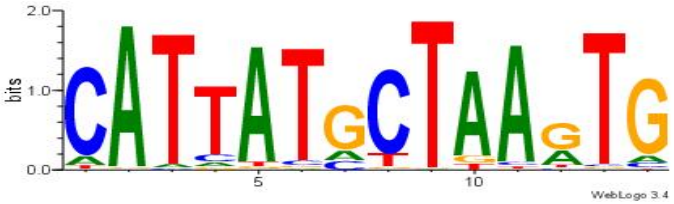

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

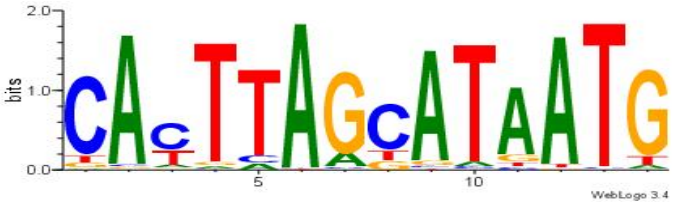

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0776474

Alignment:
CCCYAATACTGCGCTTTTC
--------ATTTGCATTT-

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

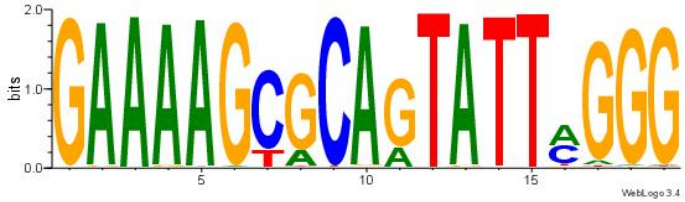

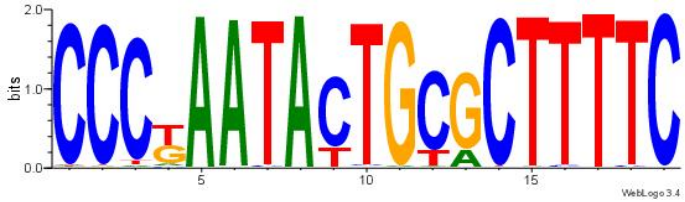

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.078254

Alignment:

```
TAAAAGACTACAWATTGGGT
-----AAATGCAAAT-----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

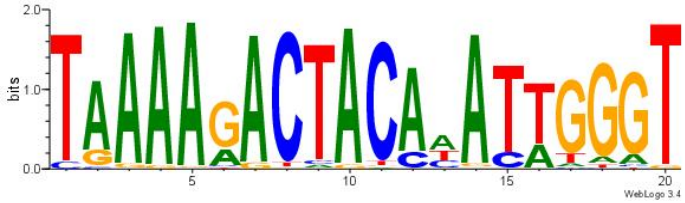

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

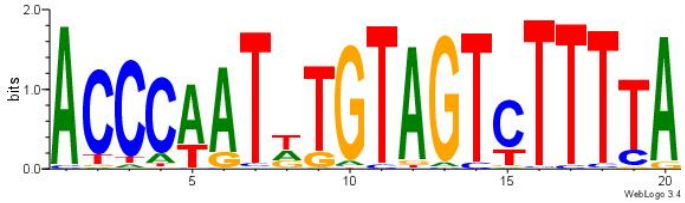

Dataset #:	1

Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0788693

Alignment:

```
CATCTGTAAAAT
-AAATGCAAAT-
```

Original motif Consensus sequence: CATCTGTAAAAT

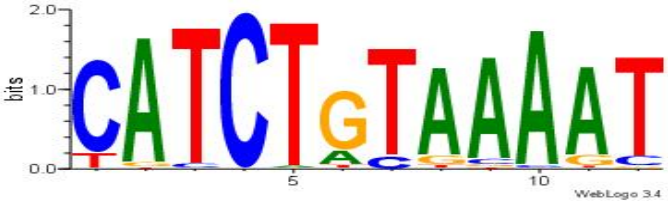

Reverse complement motif Consensus sequence: ATTTTACAGATG

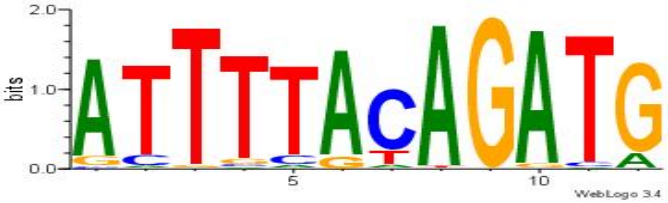

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.079032

Alignment:
TYTGTCMTTTTGTGACTGGC
ATTTGCATTT----------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

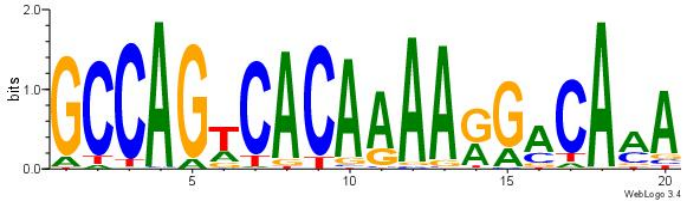

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

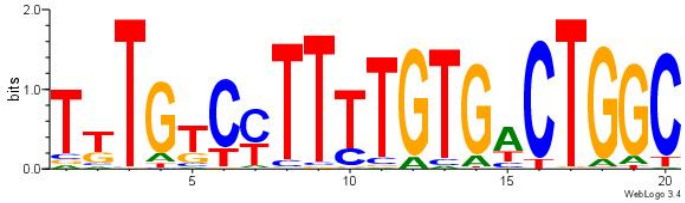

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0800089

Alignment:
CACATGGAAGC
-AAATGCAAAT

Original motif Consensus sequence: CACATGGAAGC

Reverse complement motif Consensus sequence: GCTTCCATGTG

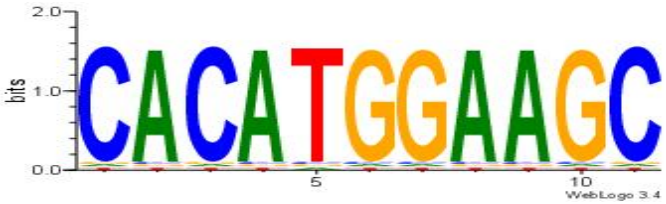

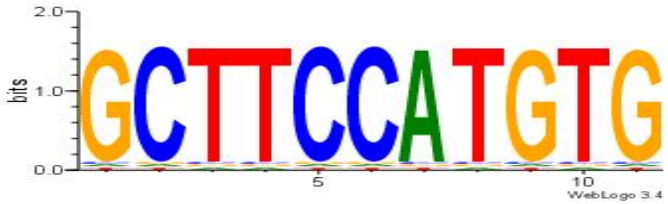

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0800125

Alignment:

```
AGTTGTAATTGGGAGACTT
ATTTGCATTT---------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

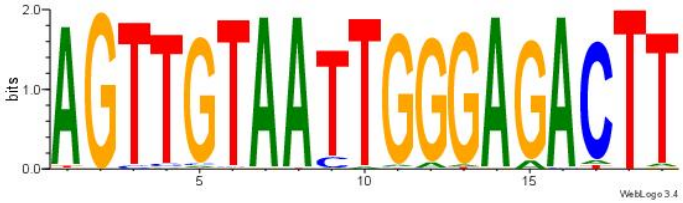

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

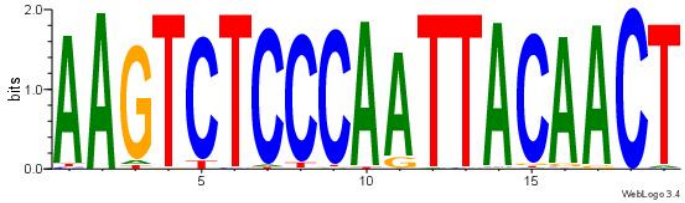

Dataset #: 1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0810502

Alignment:

```
KACATTGATTTTGTATC
--ATTTGCATTT-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

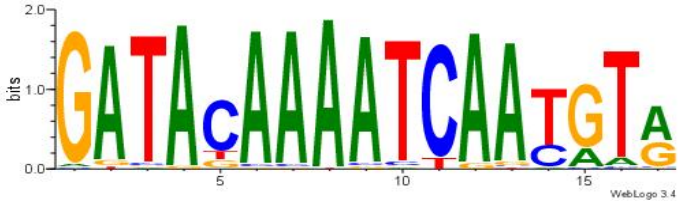

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

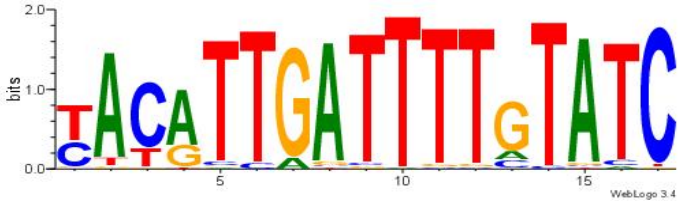

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0817552

Alignment:
AAATCTTAAAGCTC
AAATGCAAAT----

Original motif Consensus sequence: AAATCTTAAAGCTC

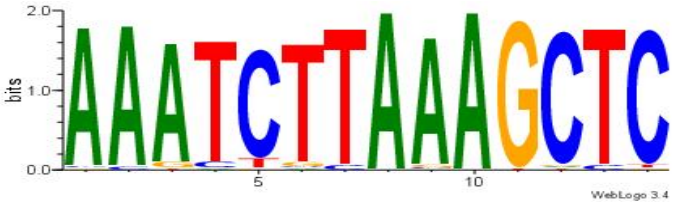

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

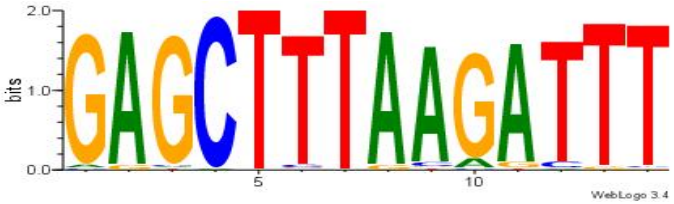

Dataset #: 1
Motif ID: 41
Motif name: Motif 41
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0817913

Alignment:
TTTTTTTMTTT
-ATTTGCATTT

Original motif Consensus sequence: AAAYAAAAAAA

Reverse complement motif Consensus sequence: TTTTTTTMTTT

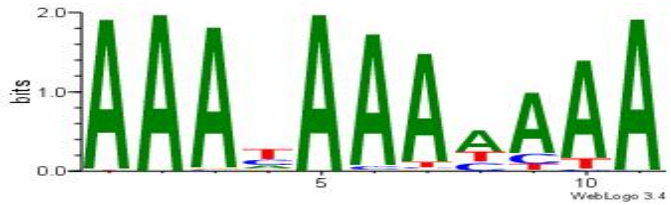

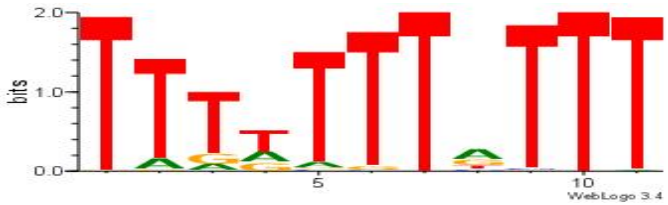

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0823585

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AAATGCAAAT----------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

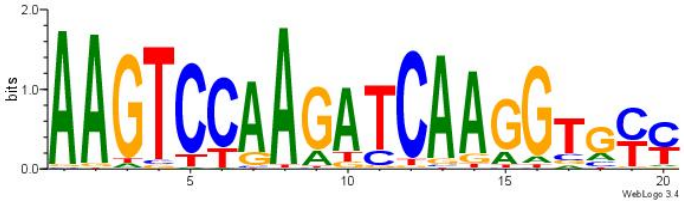

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

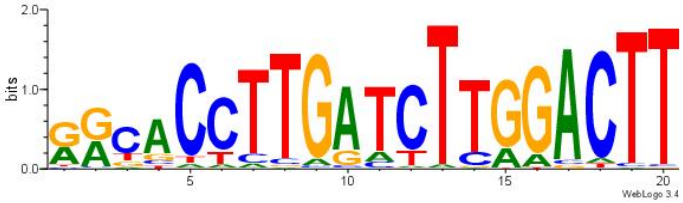

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0824864

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-----ATTTGCATTT-----
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

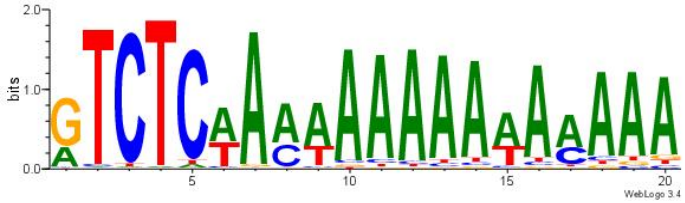

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

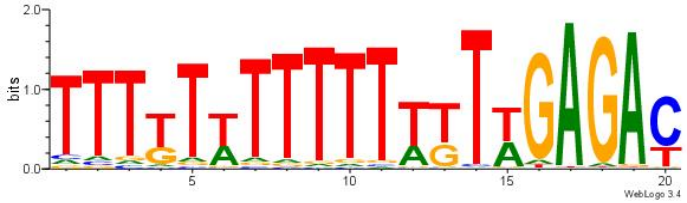

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0829118

Alignment:
TGATACCCAGGCAAACAG
------AAATGCAAAT--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

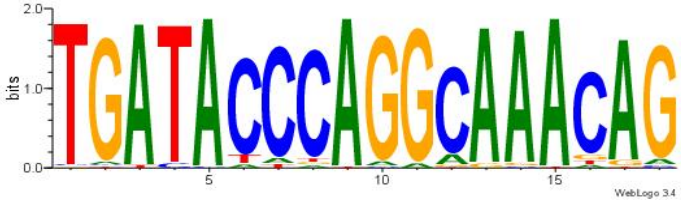

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

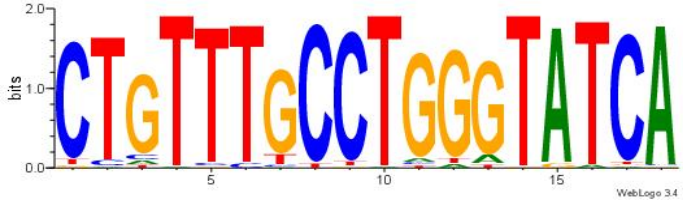

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 10
Similarity score: 0.0838973

Alignment:
AAAATCACAAGCATTCCTAT
------ATTTGCATTT----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

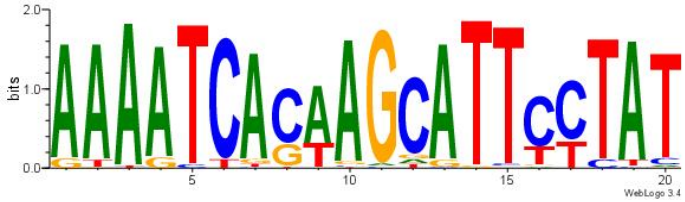

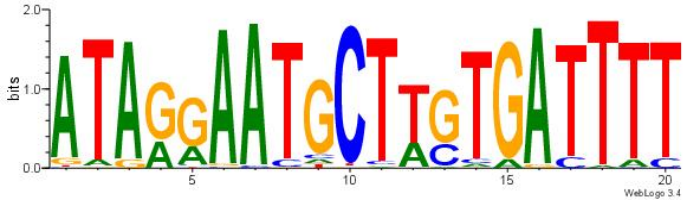

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0839858

Alignment:
CAGTCTGTGTCTTTTAATT
----ATTTGCATTT-----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

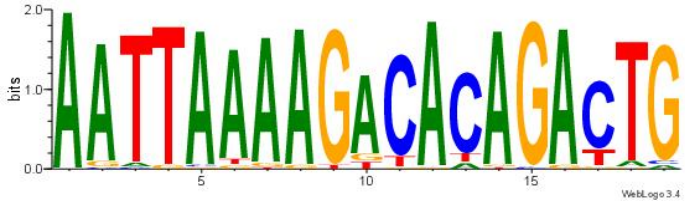

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

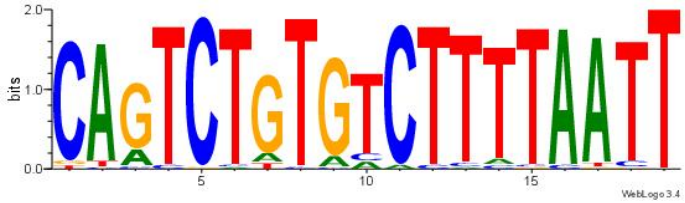

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0846365

Alignment:

```
HAGTGGKATTGCTGGATCAT
-ATTTGCATTT---------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

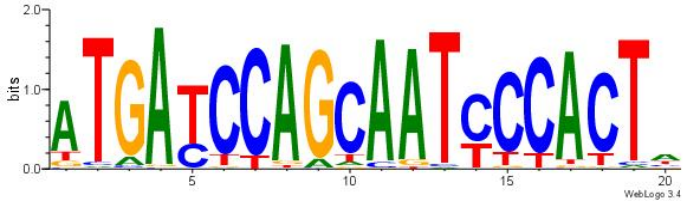

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

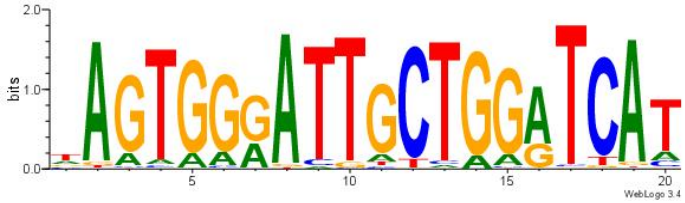

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10

Similarity score: 0.0849906

Alignment:
AGATGCCAGCCAGAGCTCT
AAATGCAAAT---------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

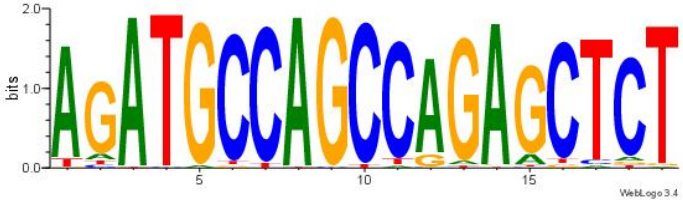

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

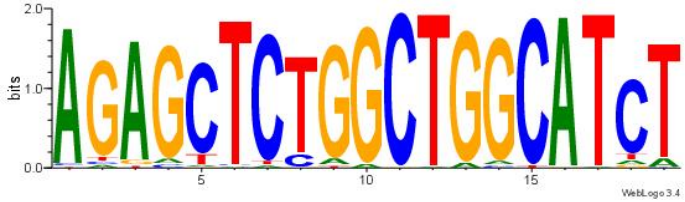

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0853029

Alignment:
CTATTGTGAATARTGCTGC
-AAATGCAAAT--------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

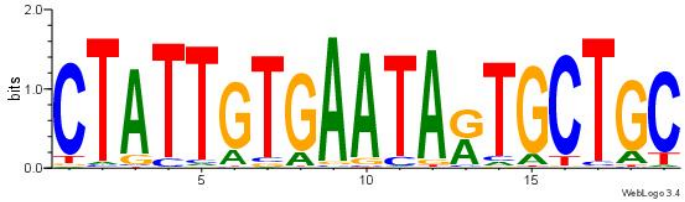

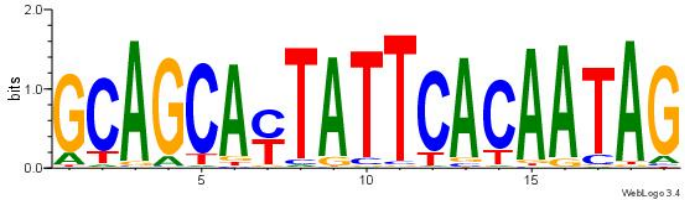

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0854626

Alignment:

```
AAAATGTGGTAYATAYAYAC
----------AAATGCAAAT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

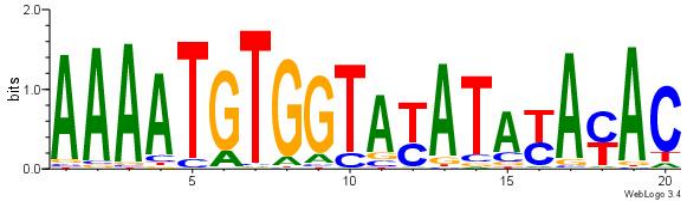

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

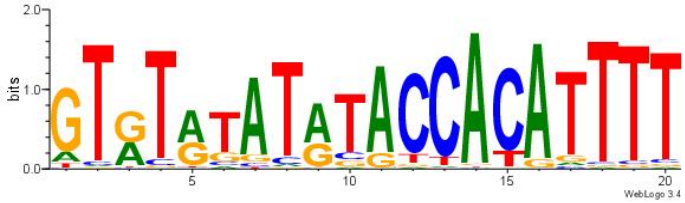

Dataset #: 1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.086159

Alignment:

```
ACACACAYACACACACACA
----AAATGCAAAT-----
```

Original motif Consensus sequence: ACACACAYACACACACACA

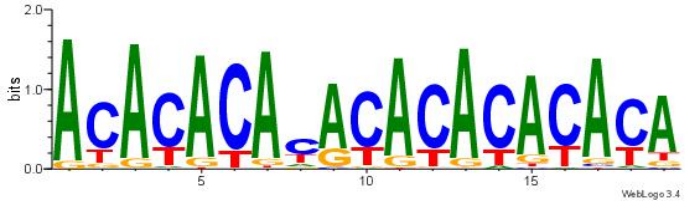

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

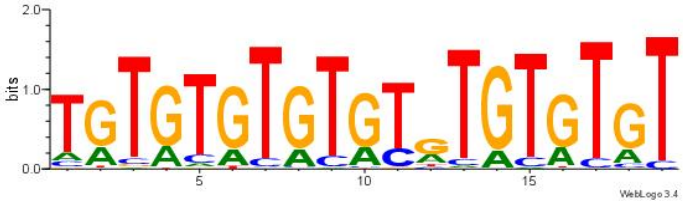

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0861701

Alignment:
ACTTTGGACTGTGGACTTTT
-ATTTGCATTT---------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

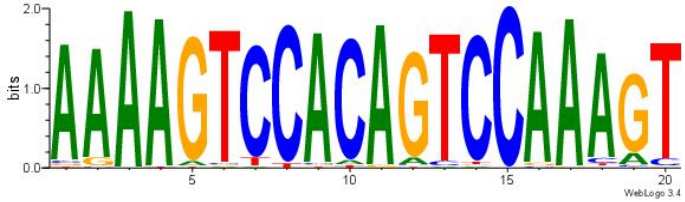

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

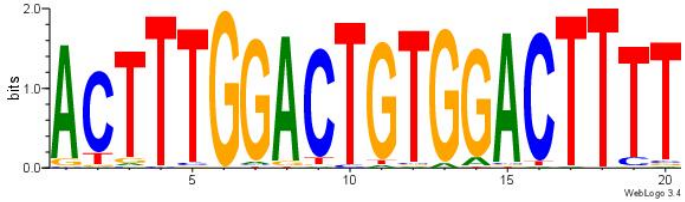

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0866224

Alignment:
TCCTATGAGAATCTAATG
------AAATGCAAAT--

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

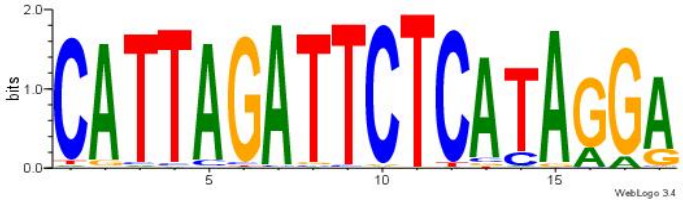

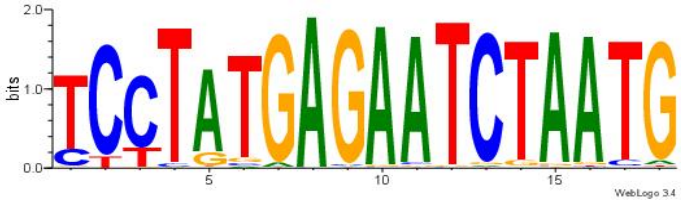

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.087226

Alignment:

```
GAGSTTGCAGTGAGC
--ATTTGCATTT---
```

Original motif Consensus sequence: GCTCACTGCAASCTC

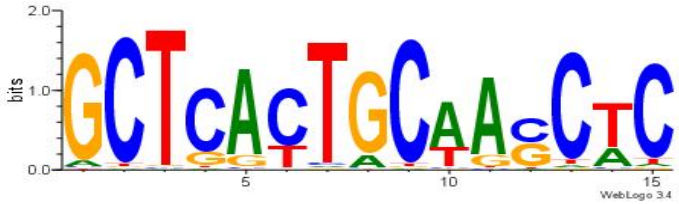

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

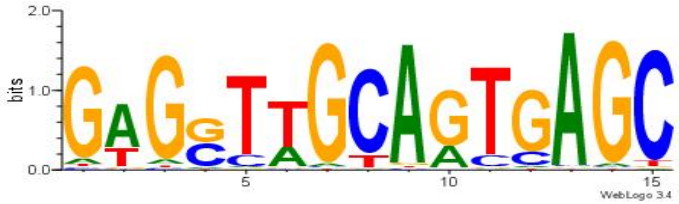

Dataset #:	1
Motif ID:	191

Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0872333

Alignment:

```
GCTGCARTCTCGGCACTTT
--------ATTTGCATTT-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

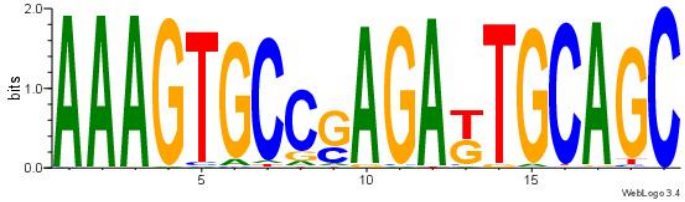

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

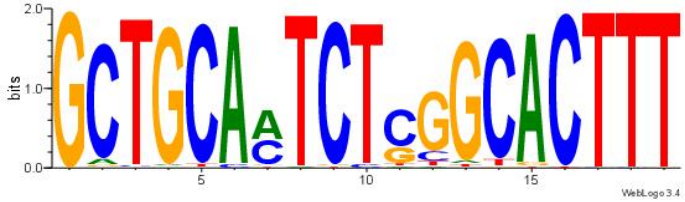

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0875219

Alignment:
ATGGAATAYTATTCAGCCAT
---AAATGCAAAT-------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

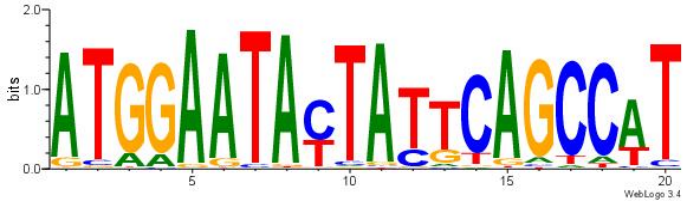

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

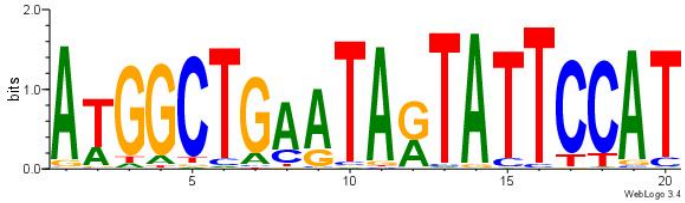

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0875608

Alignment:
TCCAAATGGGAGAAATTGGC
---AAATGCAAAT-------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

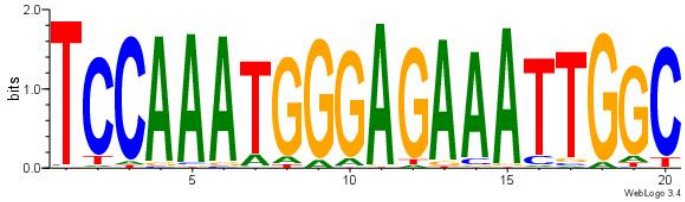

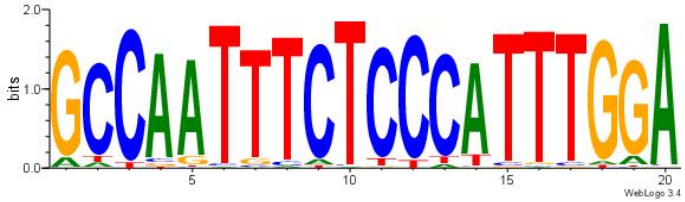

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0876871

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--AAATGCAAAT--------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

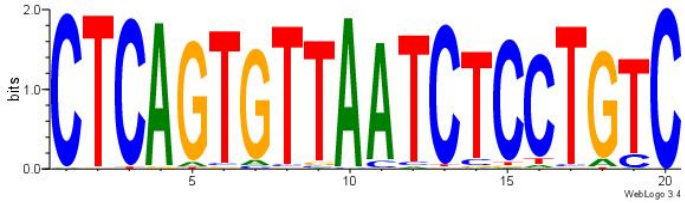

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

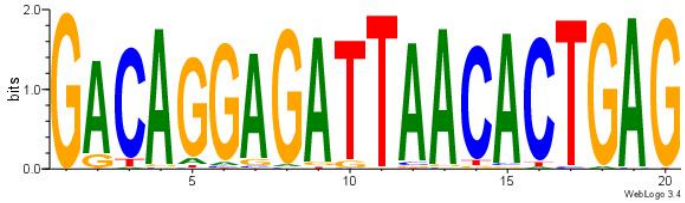

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0886169

Alignment:

```
ATGTGGAGGTGGAAGACAGT
ATTTGCATTT----------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

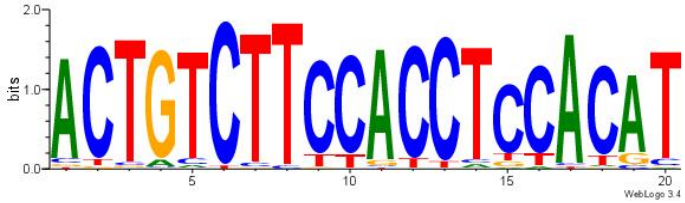

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

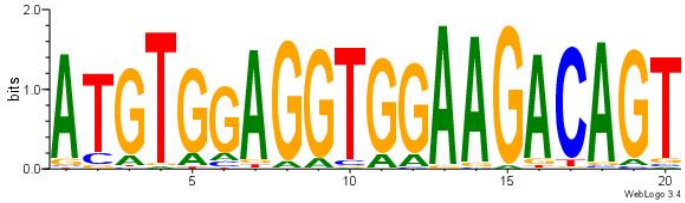

Dataset #:	1
Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.089002

Alignment:
TTATTTCACTT
-ATTTGCATTT

Original motif Consensus sequence: AAGTGAAATAA

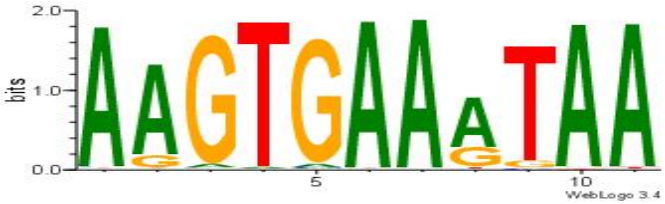

Reverse complement motif Consensus sequence: TTATTTCACTT

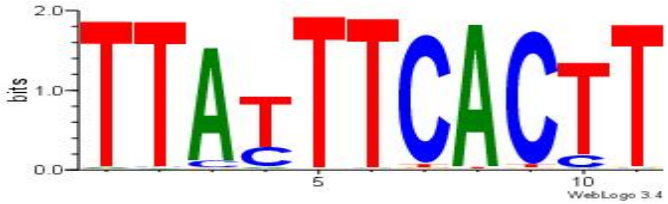

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0891694

Alignment:
GGGACWGCACAT
--AAATGCAAAT

Original motif Consensus sequence: ATGTGCWGTCCC

Reverse complement motif Consensus sequence: GGGACWGCACAT

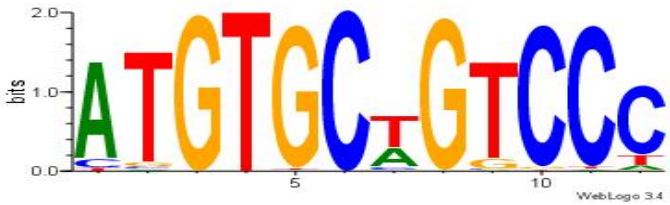

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0894657

Alignment:

```
CCCAAATCTCATSTTGAAT
----ATTTGCATTT-----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

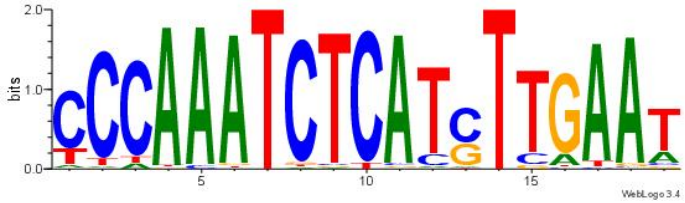

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

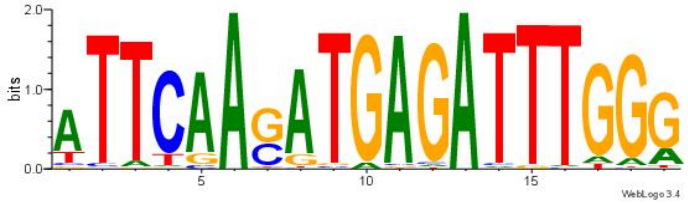

Dataset #: 1

Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0898747

Alignment:

```
ATGTTGTAGCATGT
----ATTTGCATTT
```

Original motif Consensus sequence: ACATGCTACAACAT

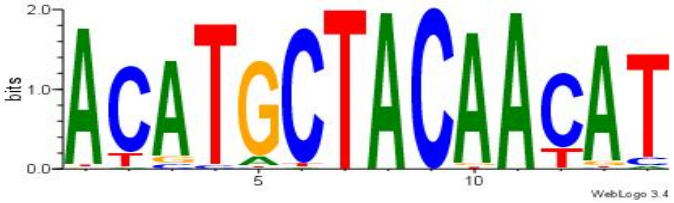

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

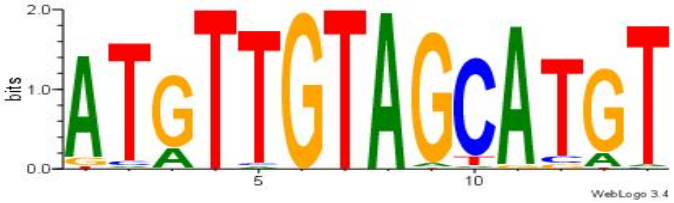

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0903931

Alignment:
CAAGGGTATAYGAGTAGCTG
-AAATGCAAAT---------

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

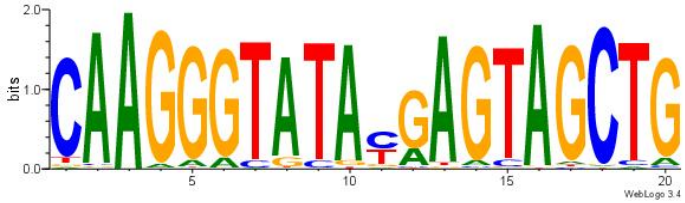

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

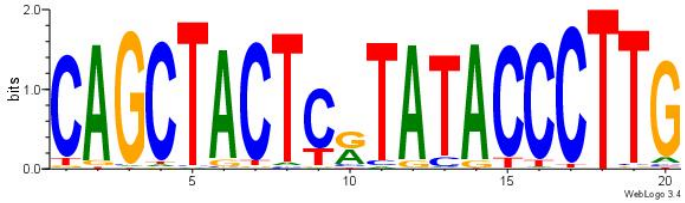

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0904867

Alignment:
ACCTGGAAAATCGGGTCACT
AAATGCAAAT----------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

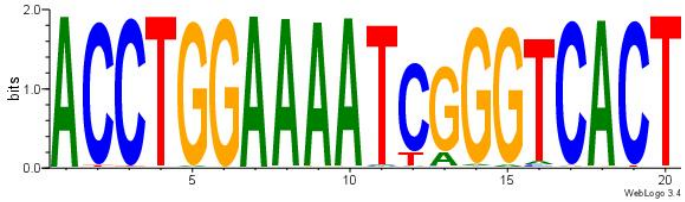

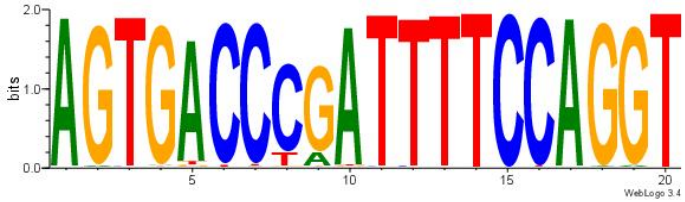

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0911249

Alignment:

```
AATGAKATCATGTCYTTTGC
--------ATTTGCATTT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

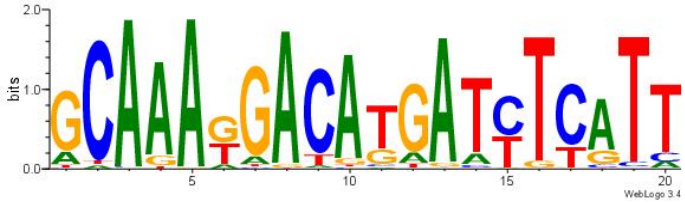

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

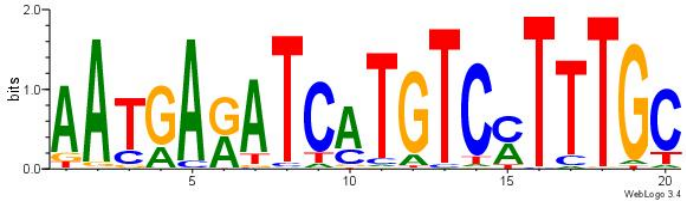

Dataset #: 1 Motif ID: 182 Motif name: Motif 182

Original motif Consensus sequence: GACCAMGAACCCA

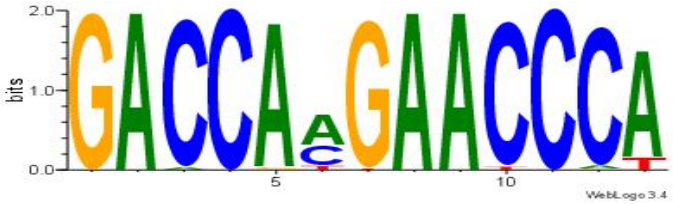

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

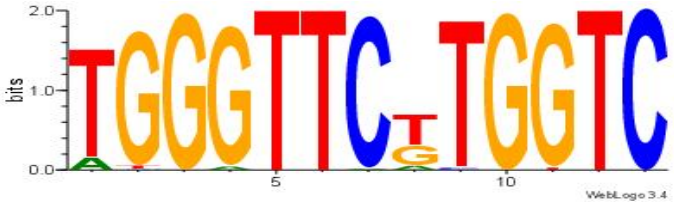

Best Matches for Motif ID 182 (Highest to Lowest)

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0852314

Alignment:

```
GACCTGCAGCCCGCCATG
-----GACCAMGAACCCA
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

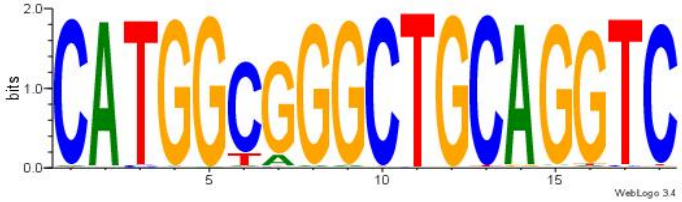

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

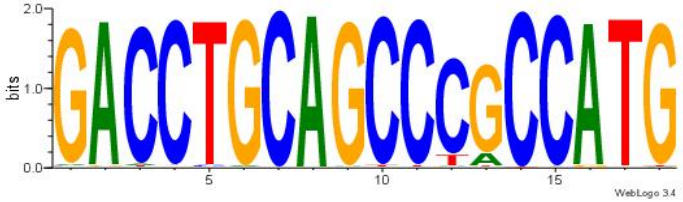

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0870886

Alignment:

```
KGCAACCTAGATCCCT
---GACCAMGAACCCA
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

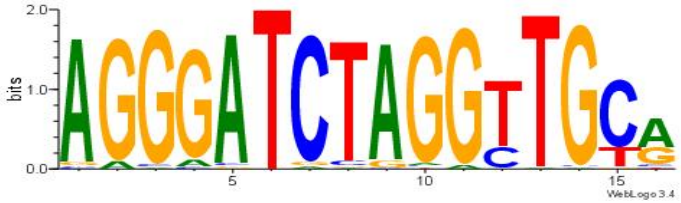

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

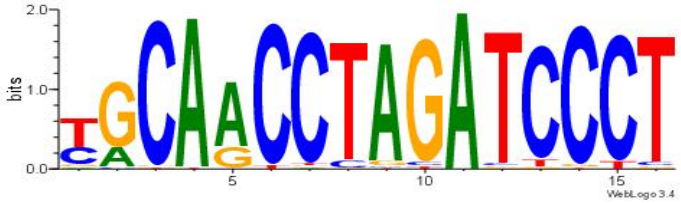

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0874714

Alignment:
CACCAGACTCAGGAGCCCAG
-GACCAMGAACCCA------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

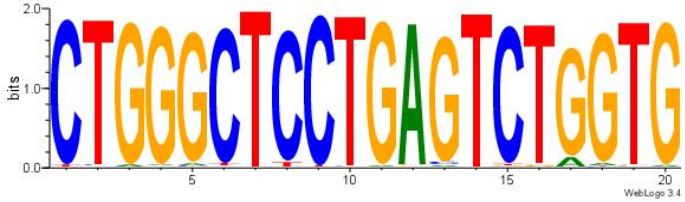

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

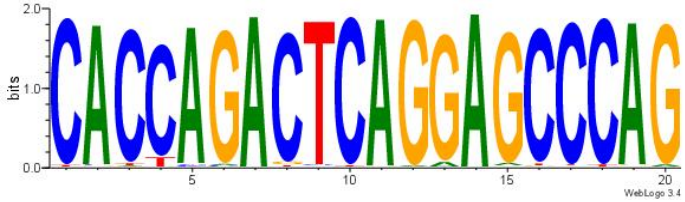

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0899738

Alignment:
GATCACGAGGTCAGGAG
GACCAMGAACCCA----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

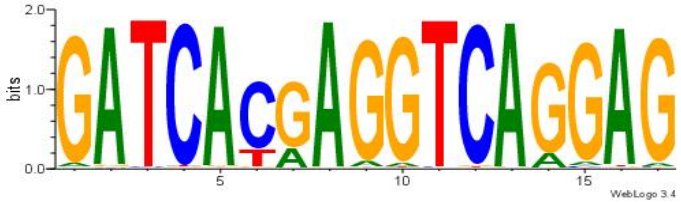

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

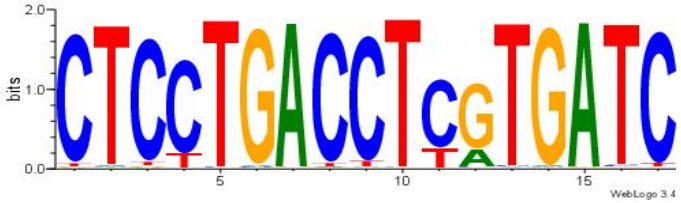

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0928807

Alignment:

```
GCGMGCGGGAACCGGGGCT
----GACCAMGAACCCA--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

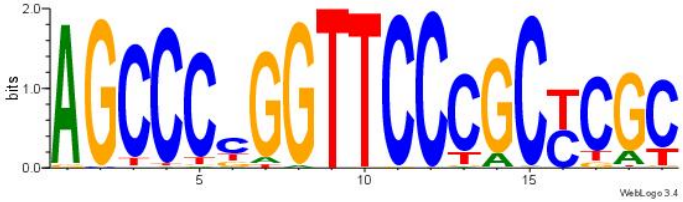

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

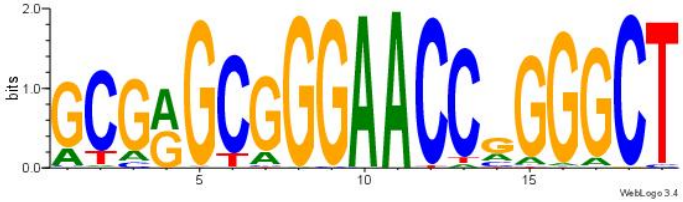

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0951116

Alignment:

```
AAGTTCTKGGKTACATGTGC
-------TGGGTTCYTGGTC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

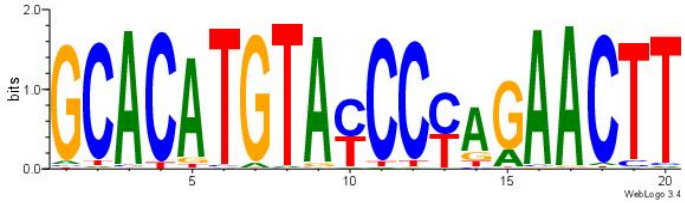

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

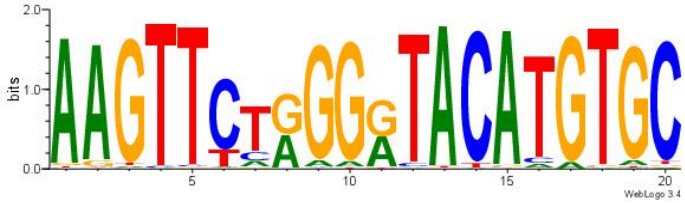

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 13
Similarity score: 0.0987387

Alignment:
CAGGTGGTKTTTGGTTACAT
---TGGGTTCYTGGTC----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

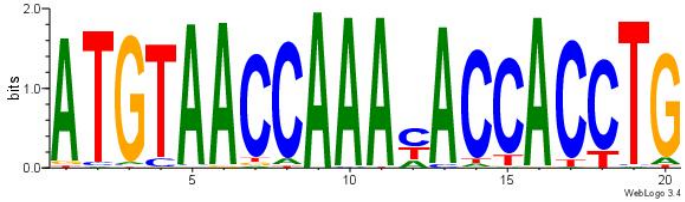

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

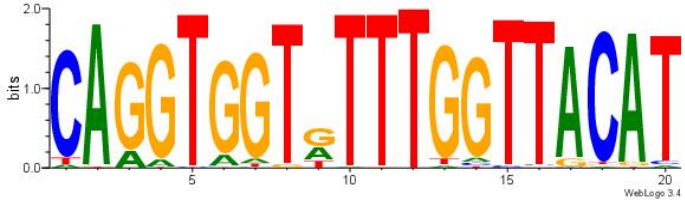

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.100929

Alignment:
CTTGCCCAAGGTCACACAGC
----GACCAMGAACCCA---

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

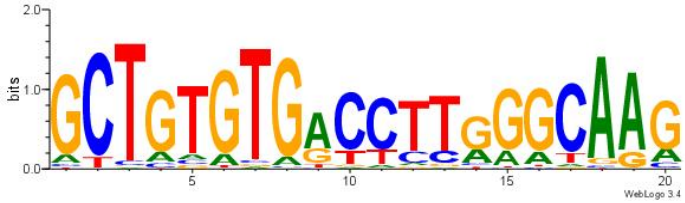

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

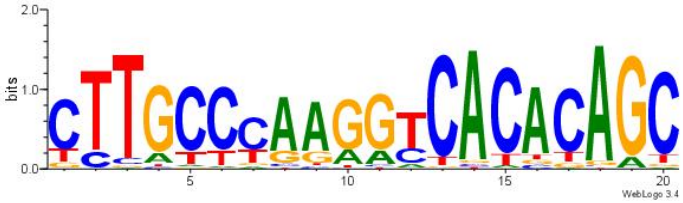

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10231

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-------TGGGTTCYTGGTC
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

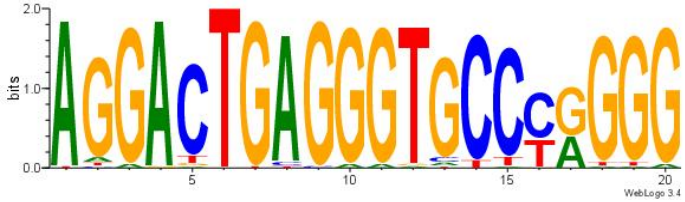

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

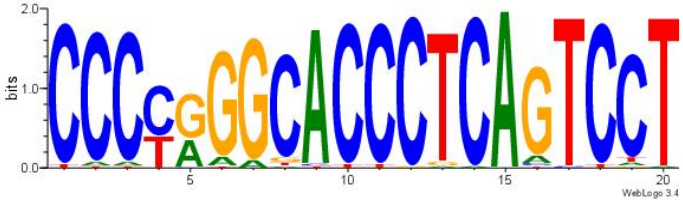

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.102526

Alignment:

```
MTCCTCCAGACCCCAGAATG
--GACCAMGAACCCA-----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

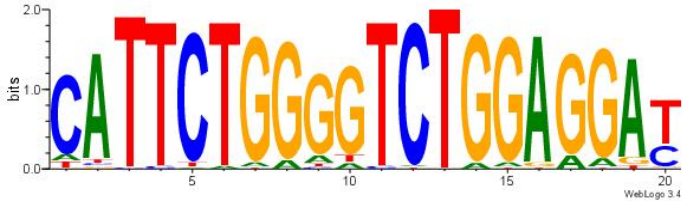

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

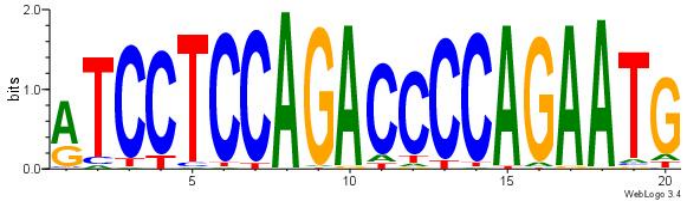

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 13
Similarity score: 0.102591

Alignment:
GGAGCCGGCTCCCTCAGCTT
------GACCAMGAACCCA-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

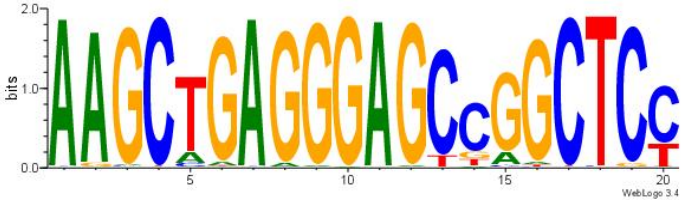

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

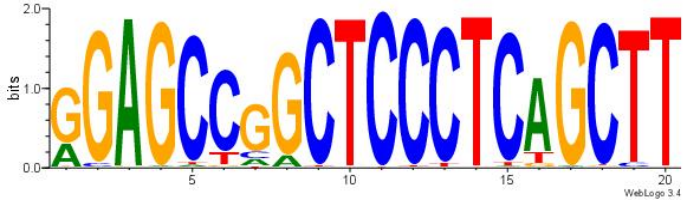

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.102939

Alignment:
TGAGKCAATTAAACCTCTT
---GACCAMGAACCCA---

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

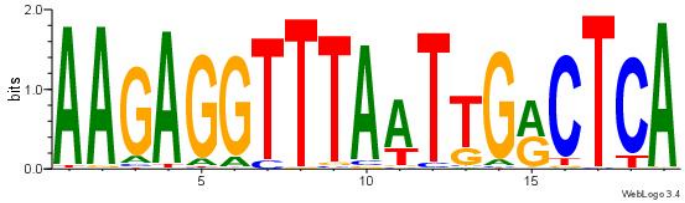

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

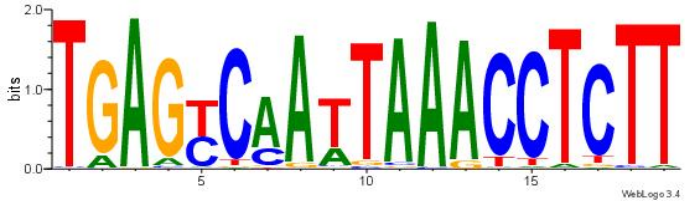

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.103215

Alignment:

```
GGCATCACGGATCCTACCAA
--GACCAMGAACCCA-----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

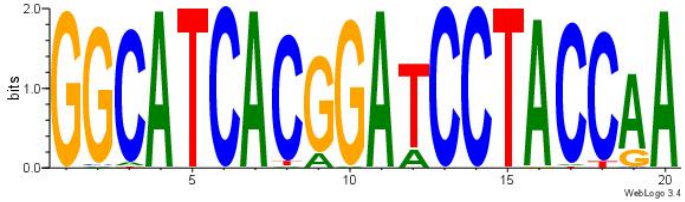

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

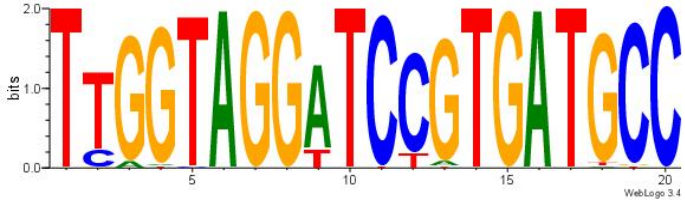

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.104216

Alignment:

```
CACCAGGAGATTATATCCCR
GACCAMGAACCCA-------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

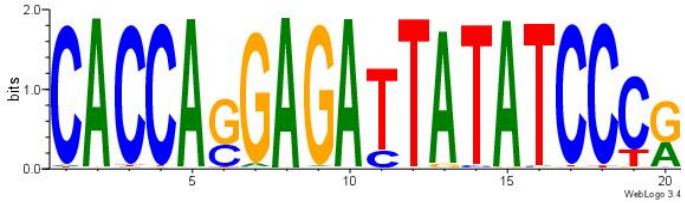

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

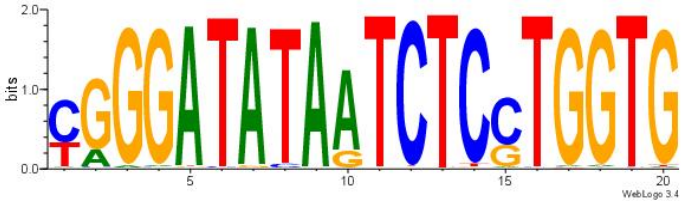

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 13
Similarity score: 0.104828

Alignment:
GTCCCATCGACCACCCAAG
----GACCAMGAACCCA--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

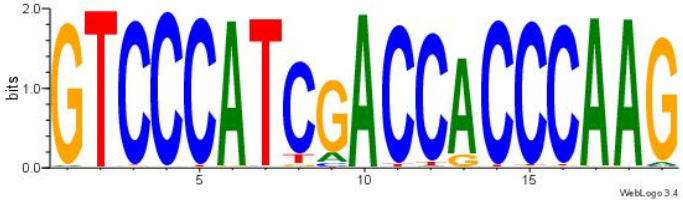

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

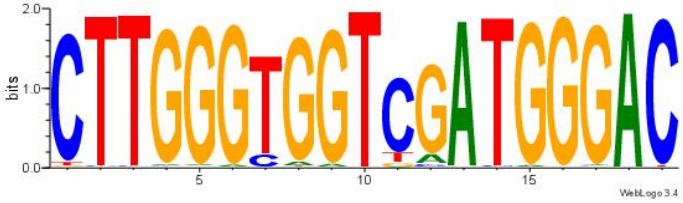

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.105357

Alignment:
AAAAGTCCACAGTCCAAAGT
----GACCAMGAACCCA---

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

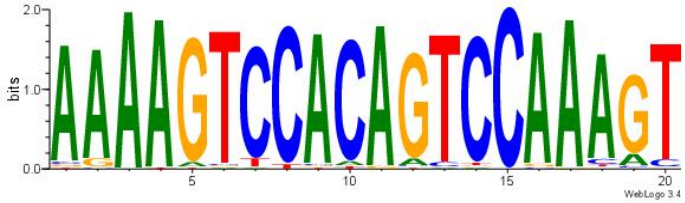

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

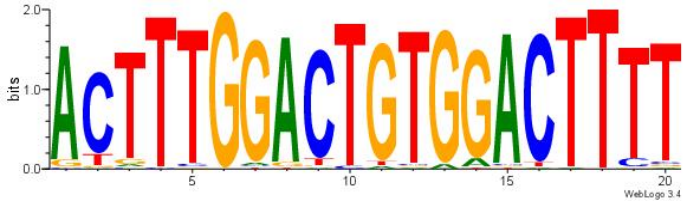

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.105515

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----TGGGTTCYTGGTC--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

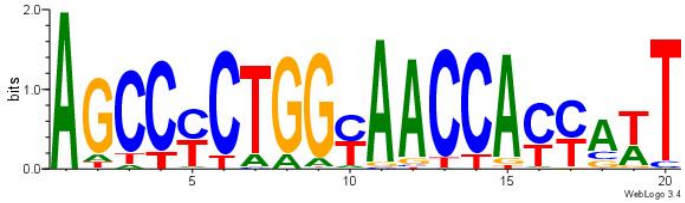

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

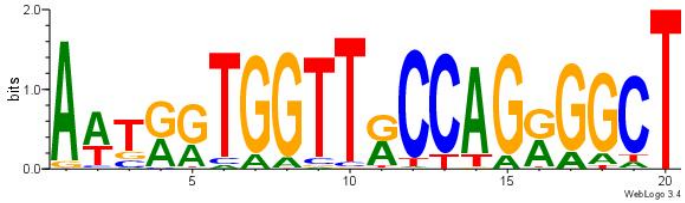

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.106075

Alignment:

```
ACGCCCACGGAGTCTC
--GACCAMGAACCCA-
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

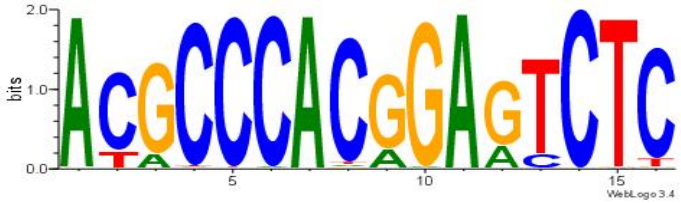

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

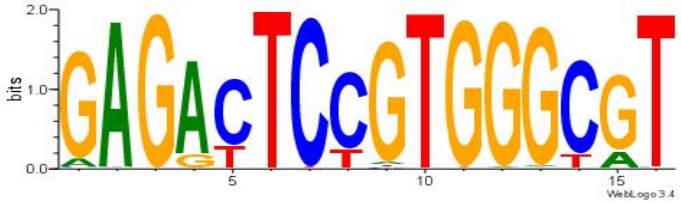

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.106461

Alignment:
GGCACTGCTGGGGGACCCAG
-GACCAMGAACCCA------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

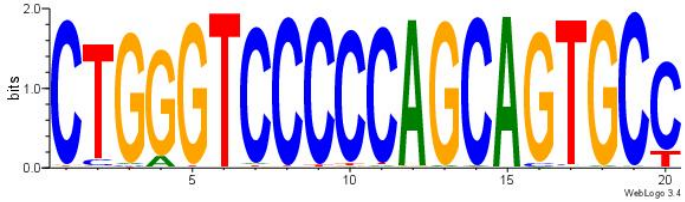

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

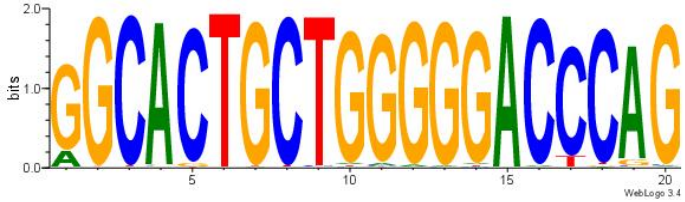

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.108252

Alignment:
CTGTTTGCCTGGGTATCA
-TGGGTTCYTGGTC----

Original motif Consensus sequence: TGATACCCAGGCAAACAG

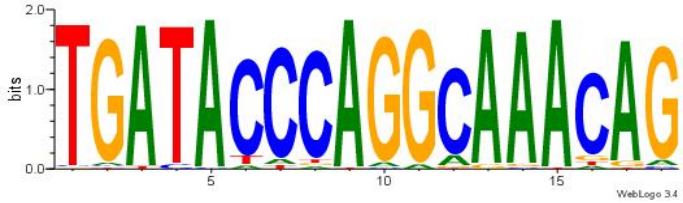

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

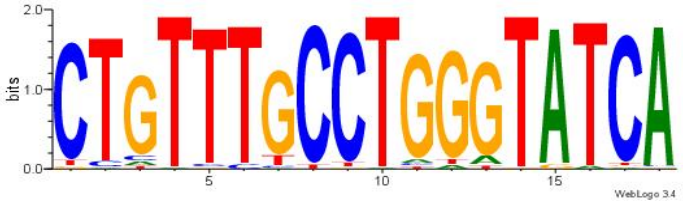

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.108377

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-GACCAMGAACCCA------
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

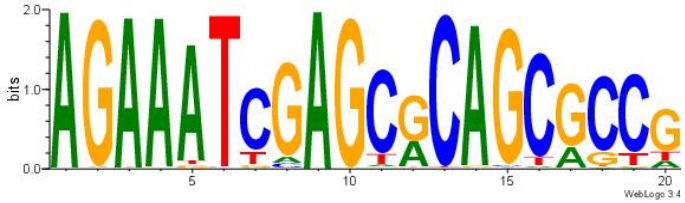

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

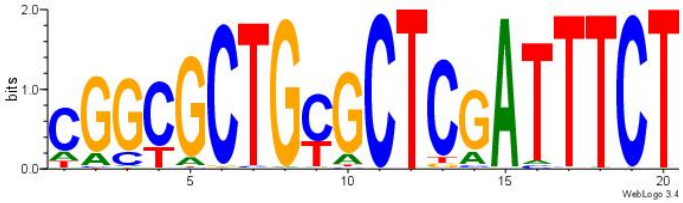

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.108632

Alignment:

```
CCTTTGACTCCATGTC
---TGGGTTCYTGGTC
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

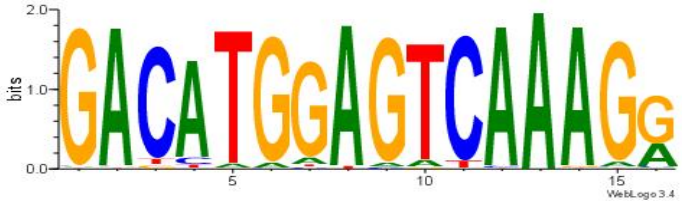

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

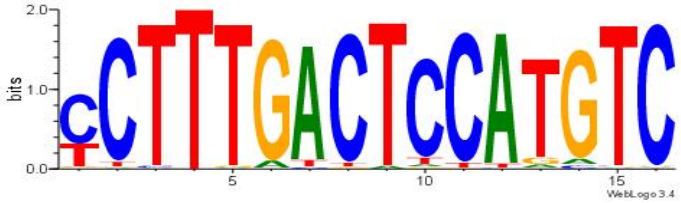

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 13
Similarity score: 0.109946

Alignment:
ATCCATCCATCCATCCA
----GACCAMGAACCCA

Original motif Consensus sequence: ATCCATCCATCCATCCA

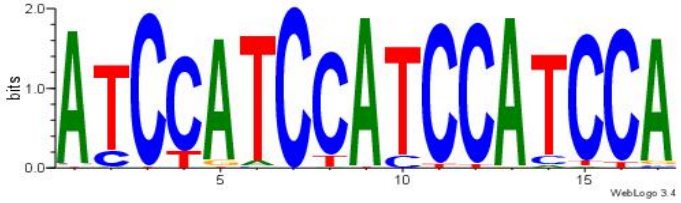

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.110011

Alignment:
GGGTCAGGGAGTTCCCTTTC
-------TGGGTTCYTGGTC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

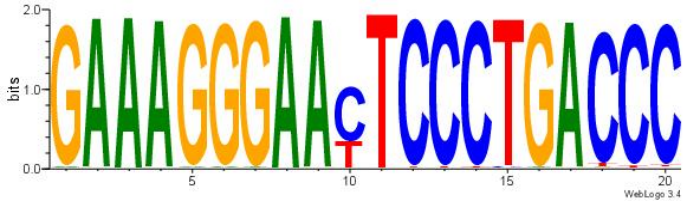

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

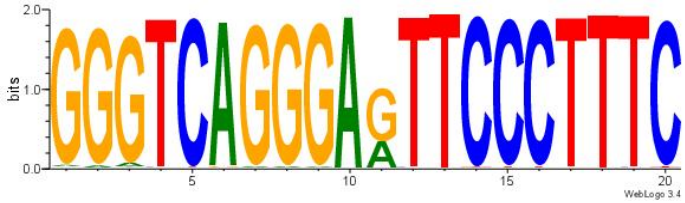

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.110376

Alignment:

```
ATGGCTGAATAKTATTCCAT
-GACCAMGAACCCA------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

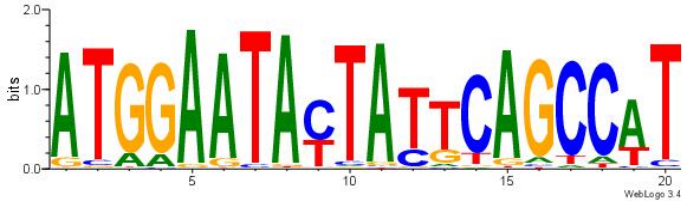

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

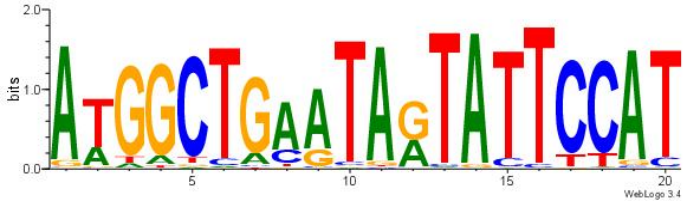

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.110763

Alignment:

```
TGGGGCTCCAGATG
-TGGGTTCYTGGTC
```

Original motif Consensus sequence: CATCTGGAGCCCCA

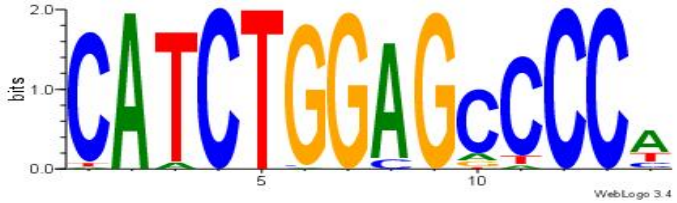

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

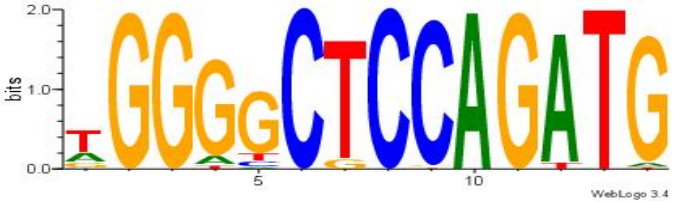

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.11108

Alignment:
ATGTGGAGGTGGAAGACAGT
--GACCAMGAACCCA-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

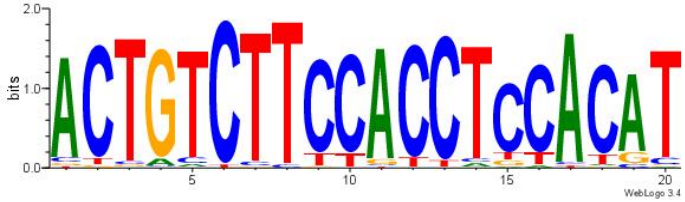

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

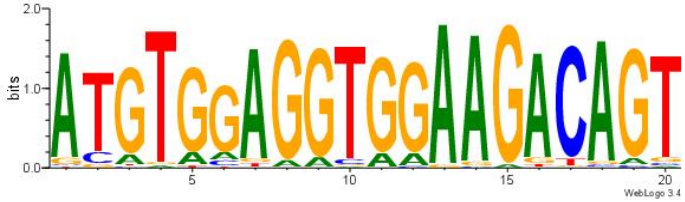

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.11115

Alignment:
GTGGGTGCAGTGCA
-TGGGTTCYTGGTC

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

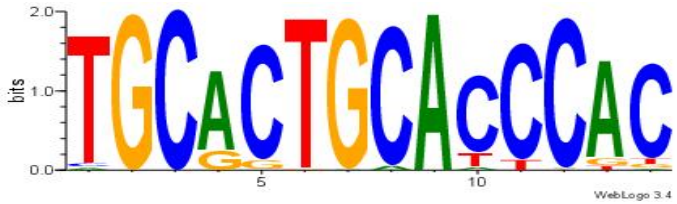

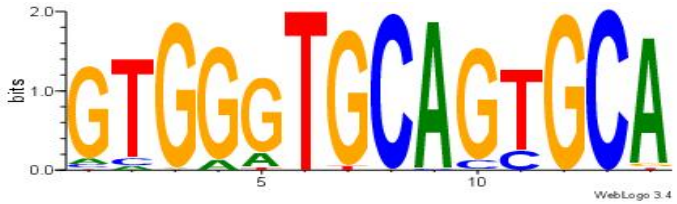

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.11147

Alignment:

```
TTYTTGTTGTTGTTGTT
--TGGGTTCYTGGTC--
```

Original motif Consensus sequence: AACAACAACAACAAMAA

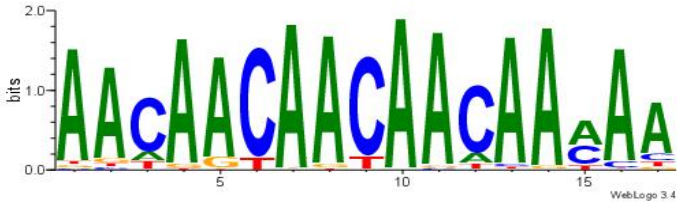

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

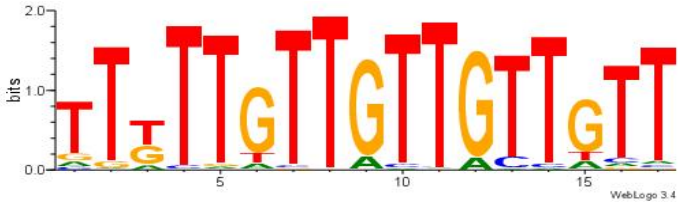

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.113314

Alignment:

```
KGGGCDGAGGGGCTCCT
TGGGTTCYTGGTC----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

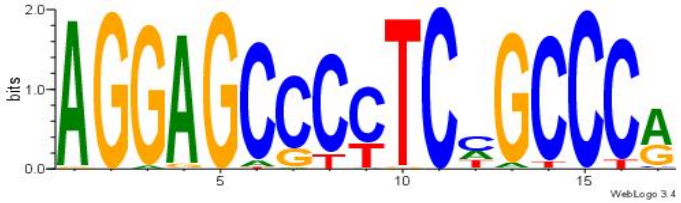

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.113896

Alignment:
KKCACCTTGATCTTGGACTT
-----TGGGTTCYTGGTC--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

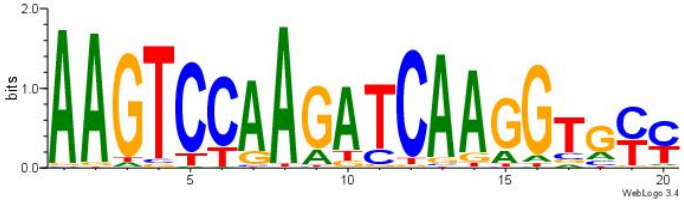

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

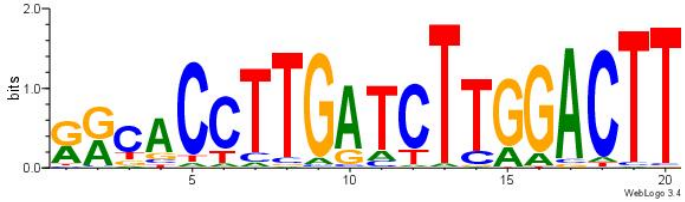

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.11579

Alignment:
AGAGCCAAATCATGARTGAA
-------GACCAMGAACCCA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

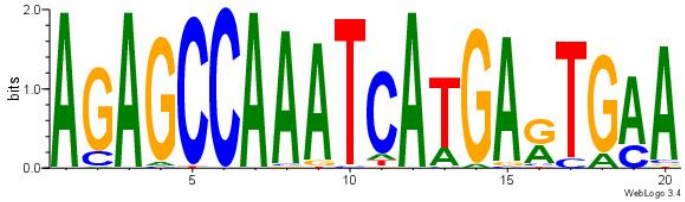

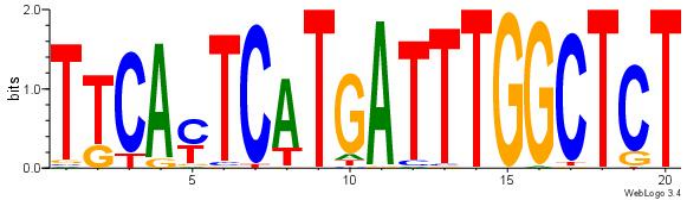

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.115976

Alignment:

```
HAGTGGKATTGCTGGATCAT
----TGGGTTCYTGGTC---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

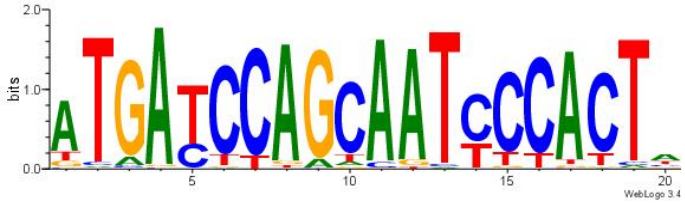

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

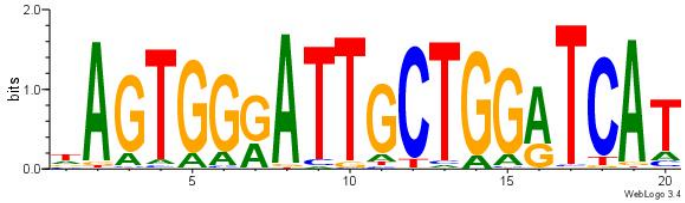

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.116582

Alignment:

```
GCTGGCCCKGGTGCTAAGC
---GACCAMGAACCCA---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

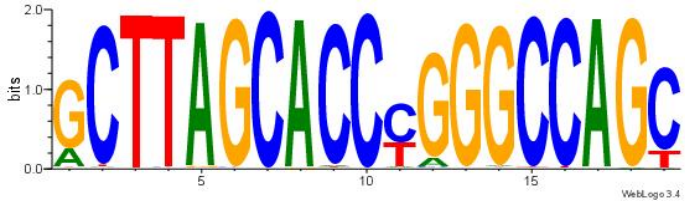

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

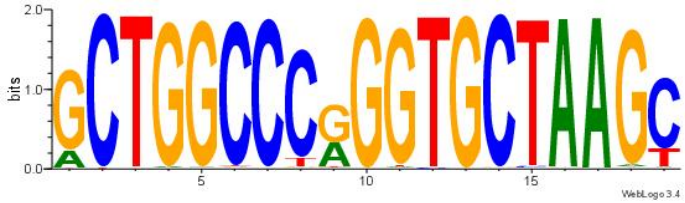

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.117033

Alignment:
GAAHCAACCKAAKTGTCCAT
-GACCAMGAACCCA------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

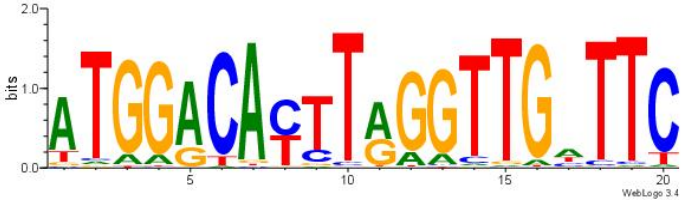

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

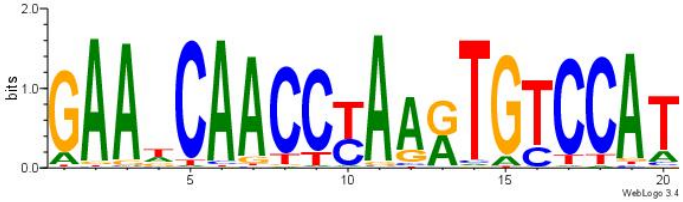

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.117431

Alignment:
AGATGCCAGCCAGAGCTCT
------GACCAMGAACCCA

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

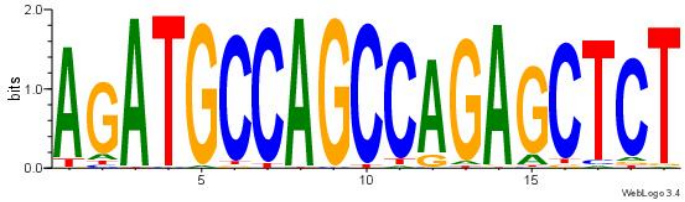

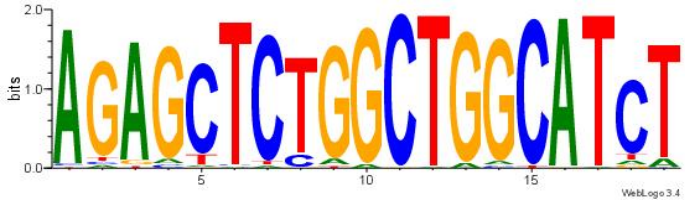

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.117443

Alignment:

```
TTGAGACMGKGTCT
TGGGTTCYTGGTC-
```

Original motif Consensus sequence: AGACYCYGTCTCAA

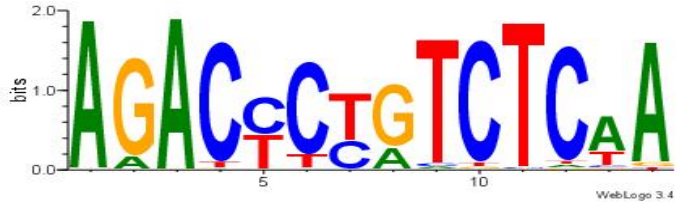

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

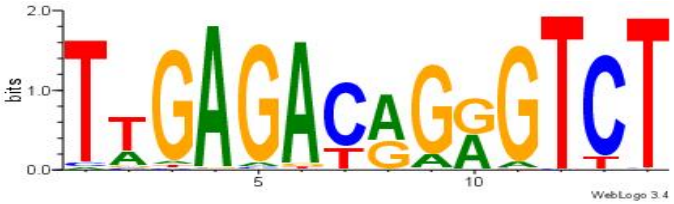

Dataset #:	1
Motif ID:	234

Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.118689

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
----TGGGTTCYTGGTC---
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

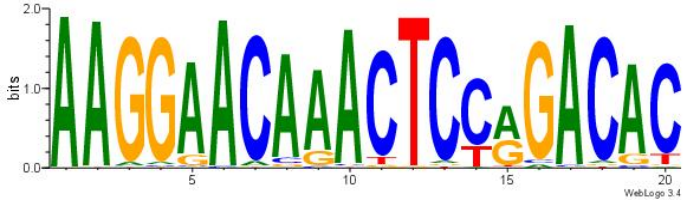

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

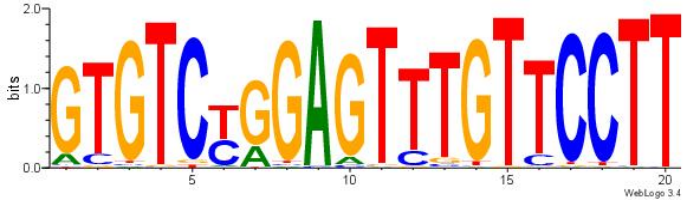

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.11884

Alignment:
GACTTCAAGAATGAAGCCG
------GACCAMGAACCCA

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

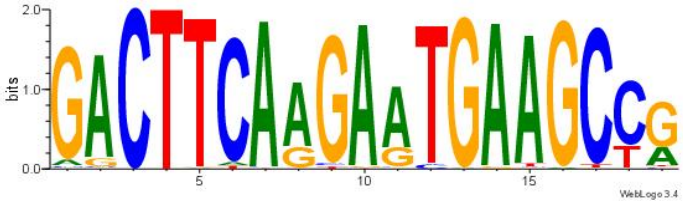

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

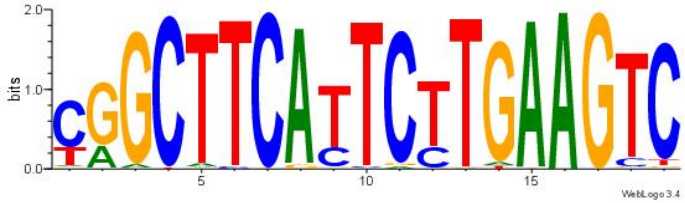

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.119151

Alignment:
CAGAAATCACCCGTCTT
GACCAMGAACCCA----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

Reverse complement motif Consensus sequence:
AAGACGGGTGATTTCTG

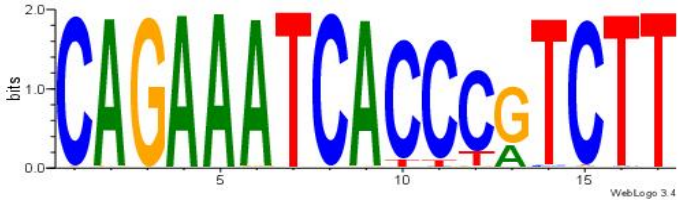

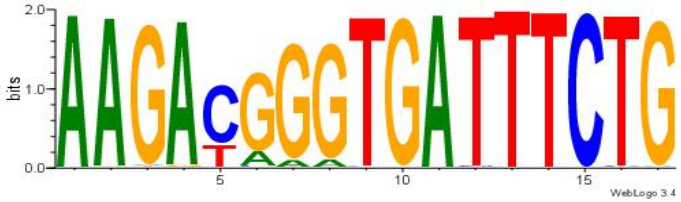

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.119347

Alignment:

```
CCACCAACAGTGTAY
-GACCAMGAACCCA-
```

Original motif Consensus sequence: CCACCAACAGTGTAY

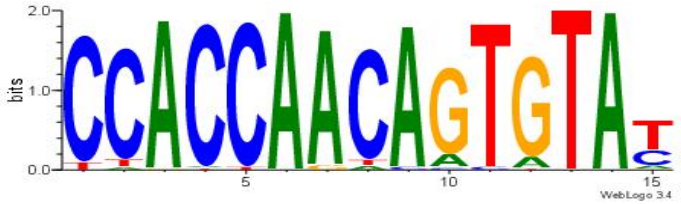

Reverse complement motif Consensus sequence: MTACACTGTTGGTGG

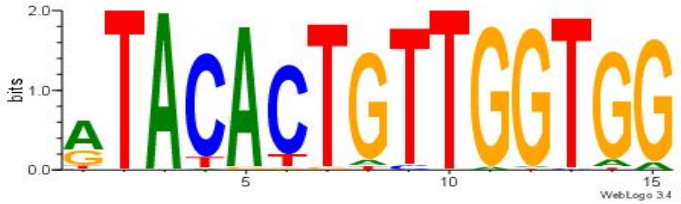

Dataset #:	1
Motif ID:	328

Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.11945

Alignment:

```
KACATTGATTTTGTATC
----TGGGTTCYTGGTC
```

Original motif Consensus sequence: GATACAAAATCAATGTR

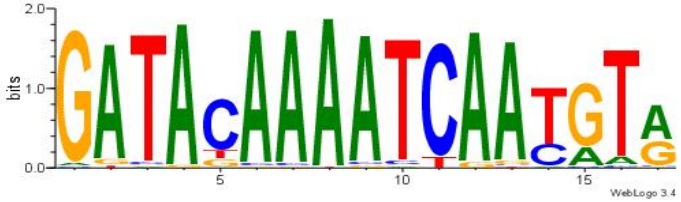

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

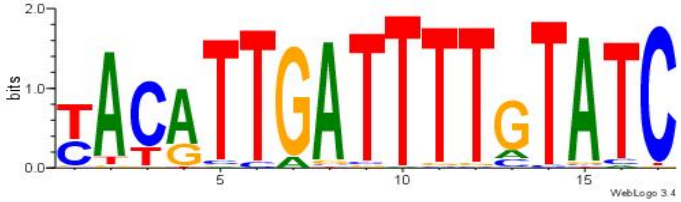

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.119599

Alignment:
CGCGGCGCTTGCGGGCCAGC
----TGGGTTCYTGGTC---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

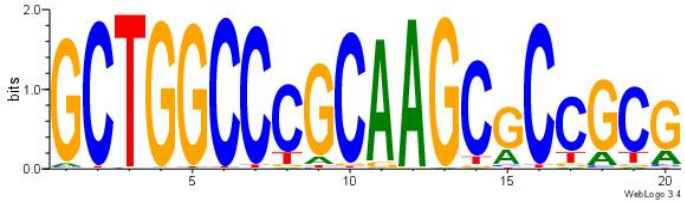

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

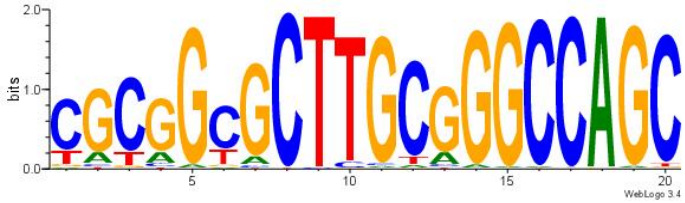

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.119753

Alignment:
ARCTCCTGKSCTCAAGKGAT
------TGGGTTCYTGGTC-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

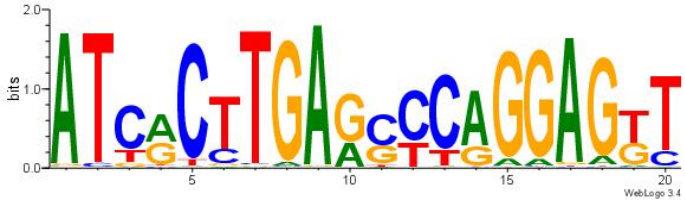

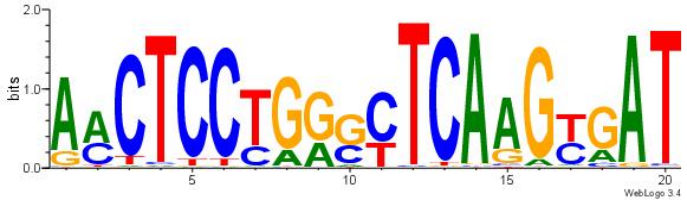

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.119774

Alignment:
AATGAKATCATGTCYTTTGC
--TGGGTTCYTGGTC-----

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

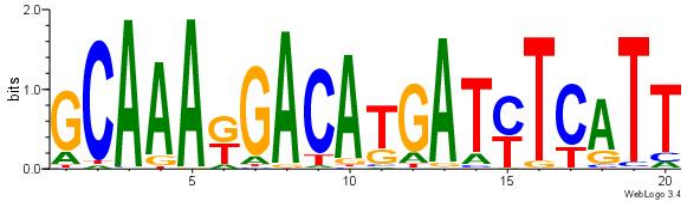

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

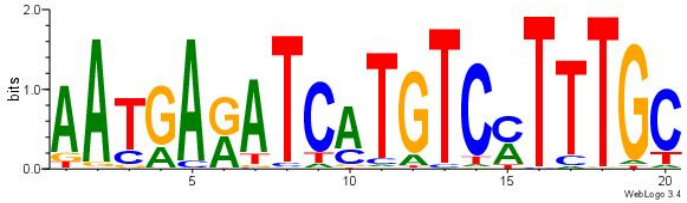

Dataset #: 1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.120299

Alignment:

```
ACAGGCTTTGTGTGAGCA
---TGGGTTCYTGGTC--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

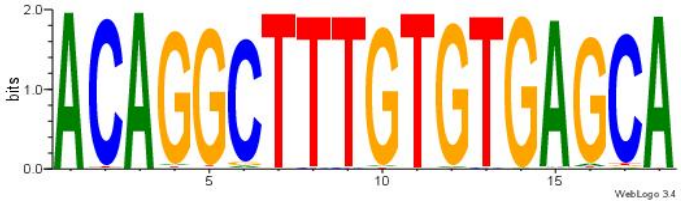

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

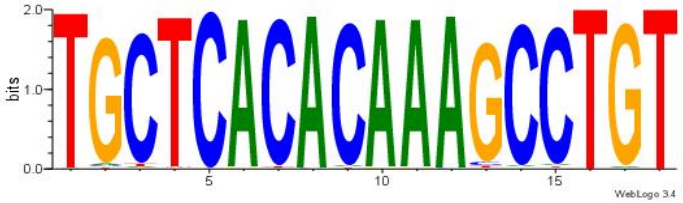

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.120462

Alignment:
TAGATAATAGCTCCAGCTTT
TGGGTTCYTGGTC-------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

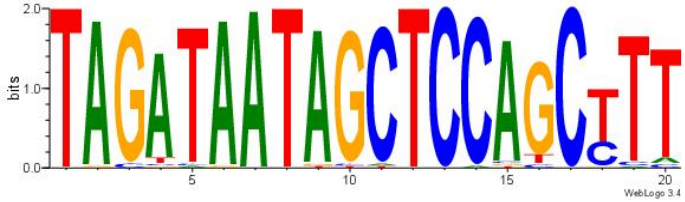

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

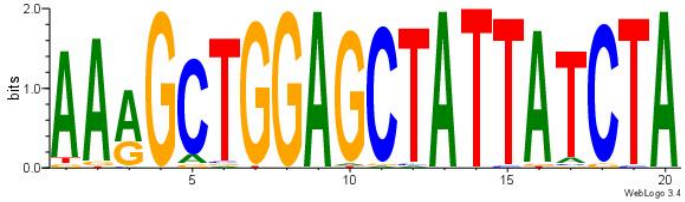

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.121038

Alignment:
AGACAGTGGGYGCAGGHCA
-GACCAMGAACCCA-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

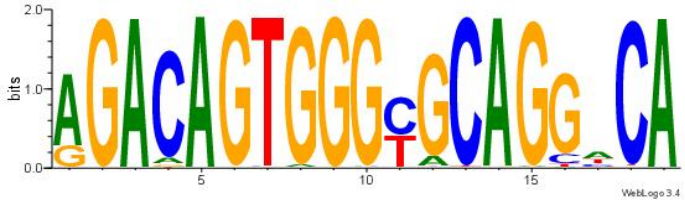

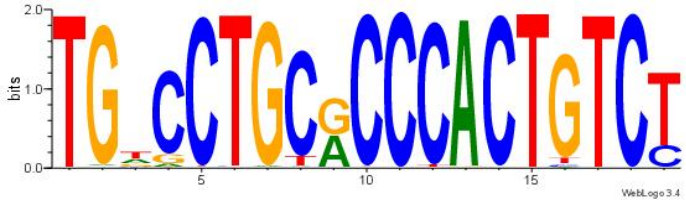

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.121142

Alignment:

```
GTTATTAATTGGCCTAATTT
-TGGGTTCYTGGTC------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

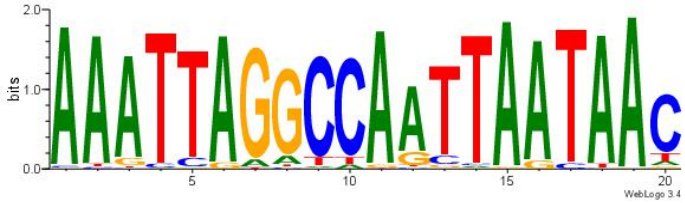

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.121169

Alignment:

```
GTGTCCCCTTCCTCCC
-TGGGTTCYTGGTC--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

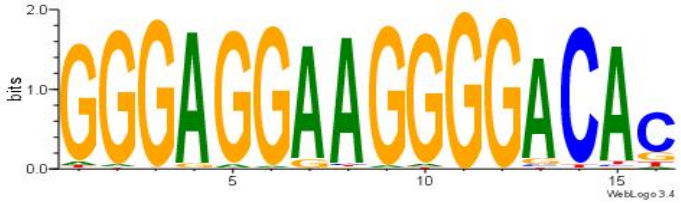

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

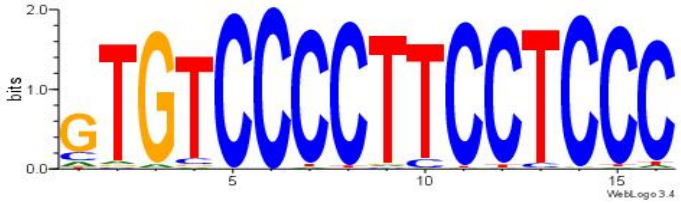

Dataset #: 1 Motif ID: 183 Motif name: Motif 183

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

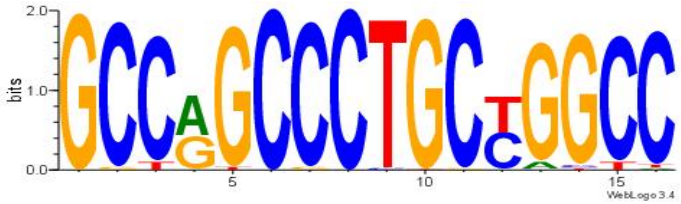

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

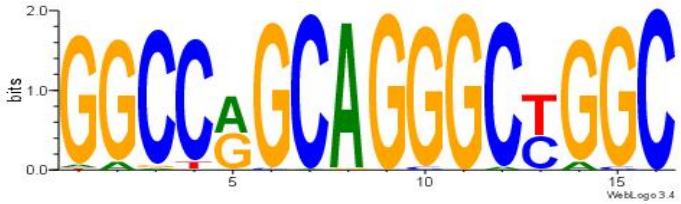

Best Matches for Motif ID 183 (Highest to Lowest)

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0673082

Alignment:
GCTGGCCCGCAAGCGCCGCG
-GGCCMGCAGGGCKGGC---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

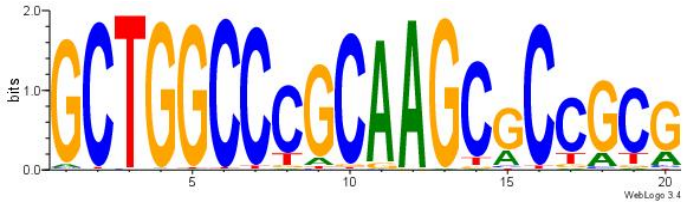

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

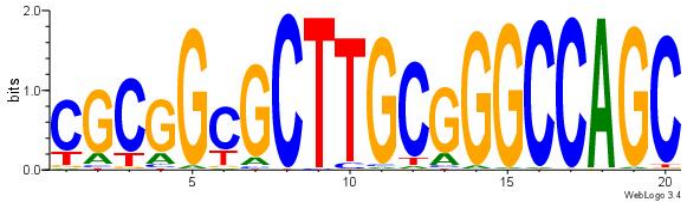

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0703996

Alignment:
GACTGGCAGGCAGCTCCACC
GGCCMGCAGGGCKGGC----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

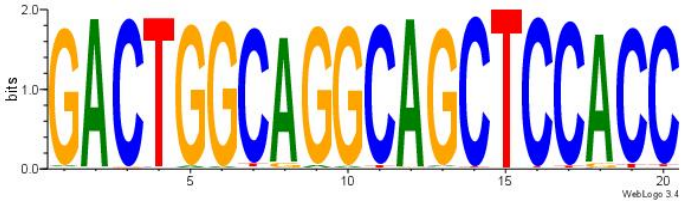

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

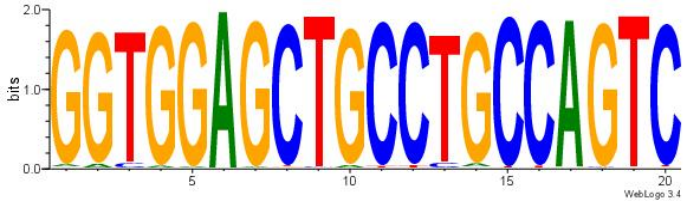

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0746523

Alignment:
TCCCTCCCGGACGGGGYGGC
GGCCMGCAGGGCKGGC----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

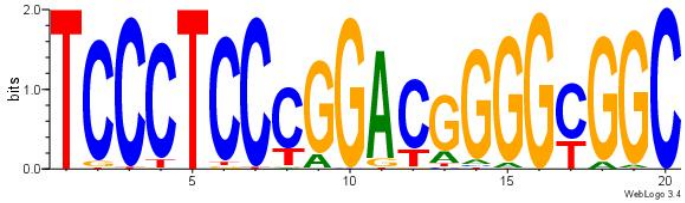

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

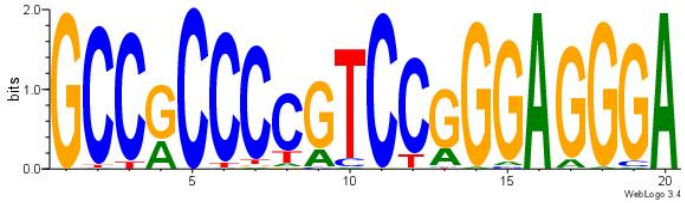

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.079611

Alignment:

```
ATTAGCYRGGCRTGGTGGC
GGCCMGCAGGGCKGGC---
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

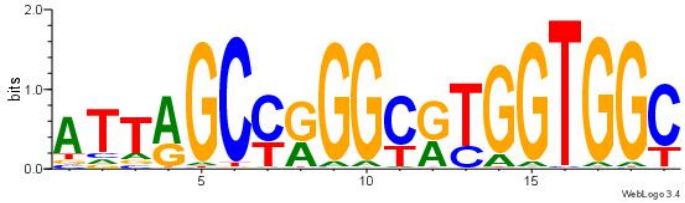

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

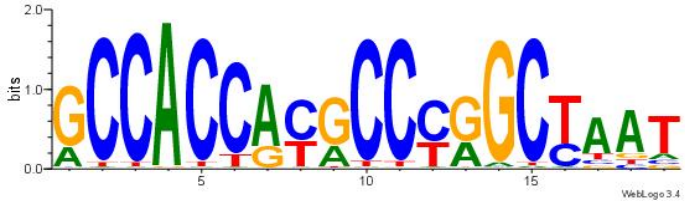

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.081514

Alignment:

```
GGGTGCAGGMGGGCTGAGT
--GGCCMGCAGGGCKGGC-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

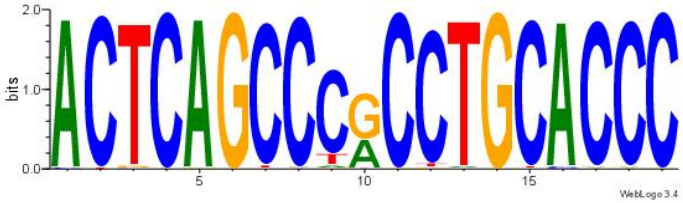

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

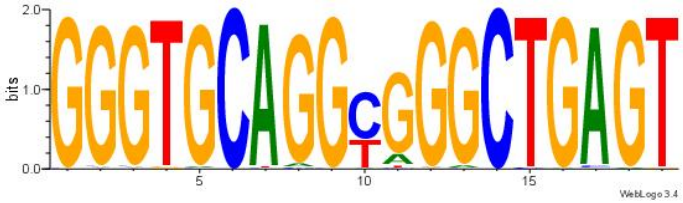

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.0816283

Alignment:
AGACCAGCCTGGCCAAC
GGCCMGCAGGGCKGGC-

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

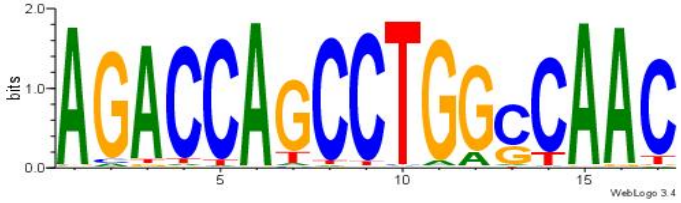

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

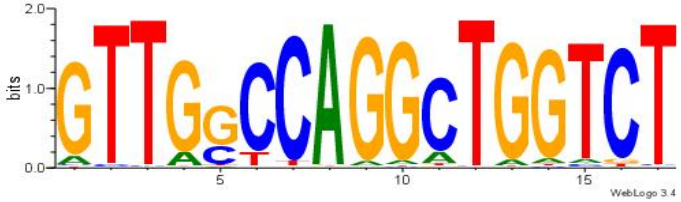

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0824249

Alignment:
AGGAGCCCCTCHGCCCR
GCCRGCCCTGCYGGCC-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

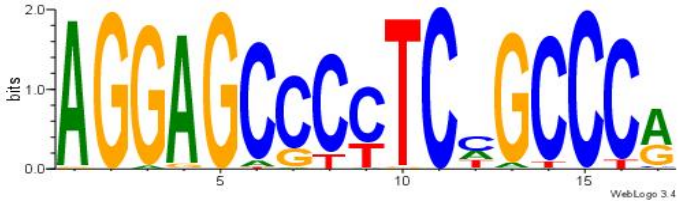

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0826504

Alignment:

```
GCTTAGCACCYGGGCCAGC
GGCCMGCAGGGCKGGC---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

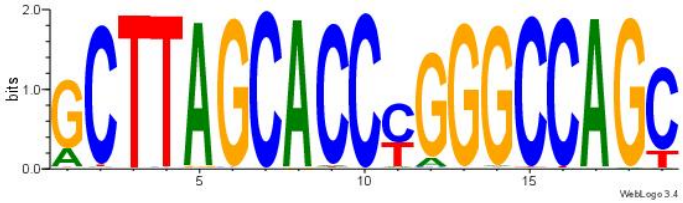

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

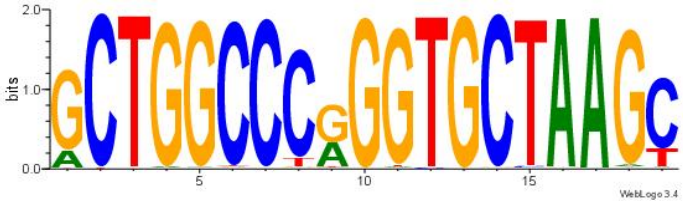

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0853657

Alignment:

```
AATCAACCCTGGYRATCAAT
-GCCRGCCCTGCYGGCC---
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

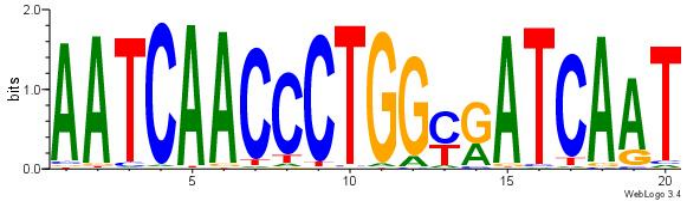

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

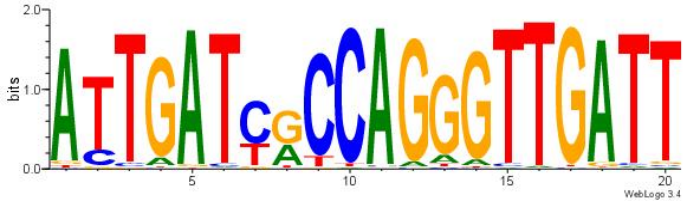

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.0868319

Alignment:
GGCACTGCTGGGGGACCCAG
----GCCRGCCCTGCYGGCC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

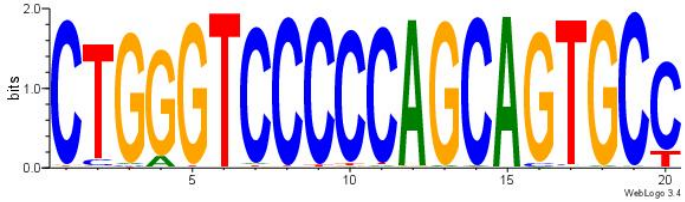

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

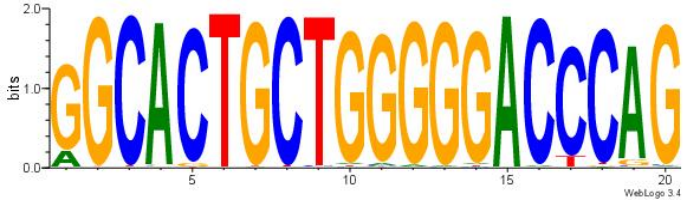

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.0870707

Alignment:
MGTCTMKCTCTGTKGCCCAG
--GCCRGCCCTGCYGGCC--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

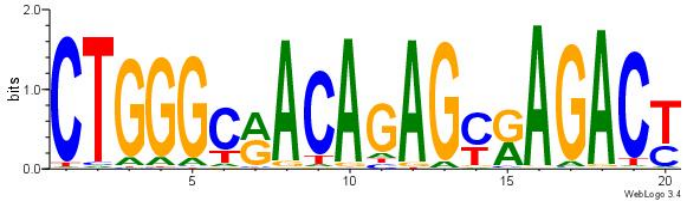

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

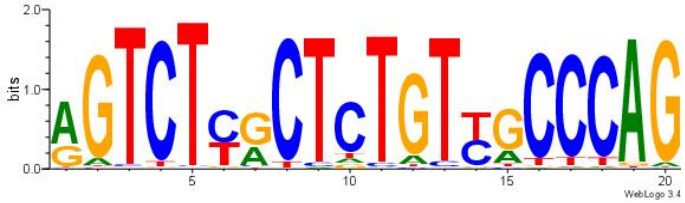

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0874491

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--GGCCMGCAGGGCKGGC--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

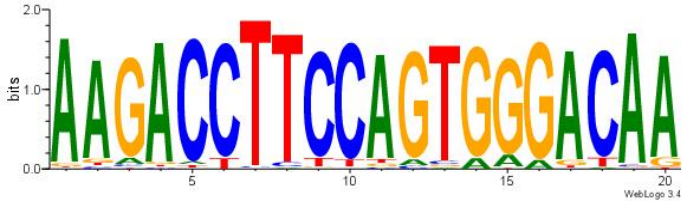

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

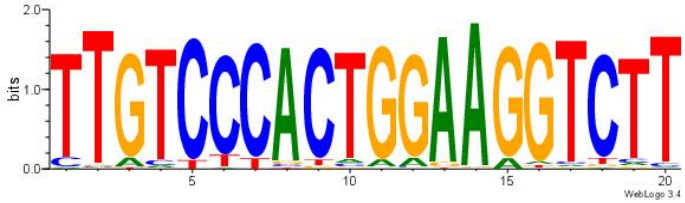

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0881589

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-GGCCMGCAGGGCKGGC---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

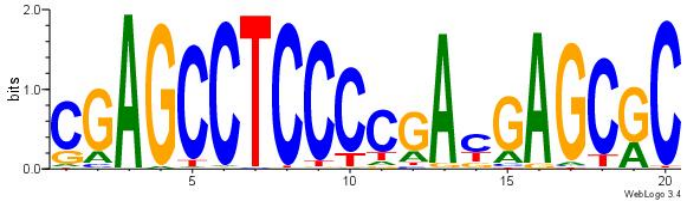

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

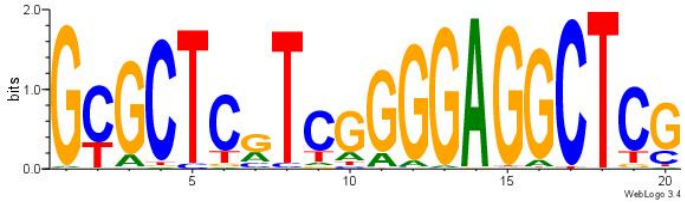

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.0885567

Alignment:
AAGCTGAGGGAGCCGGCTCC
---GGCCMGCAGGGCKGGC-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

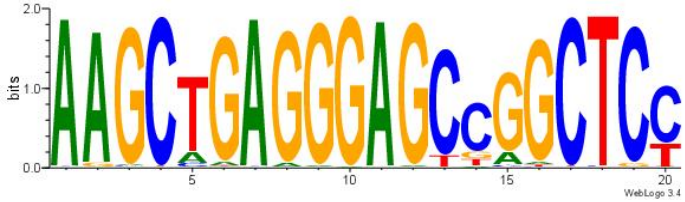

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

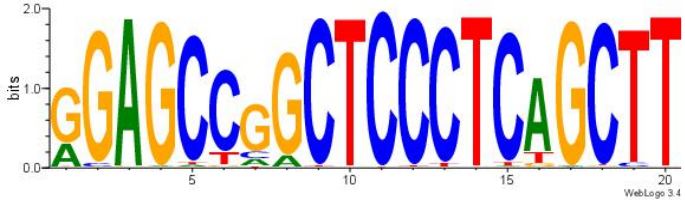

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.0888722

Alignment:
AGCTCMKCCTCCTGTCAGAT
---GCCRGCCCTGCYGGCC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

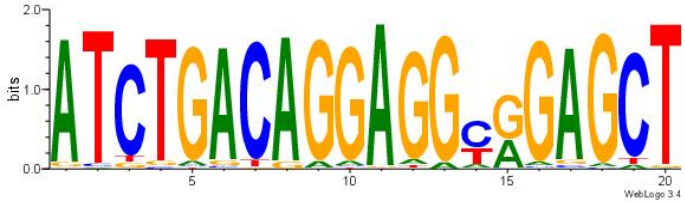

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

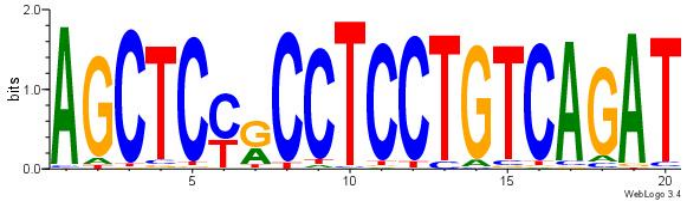

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0889358

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-GGCCMGCAGGGCKGGC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

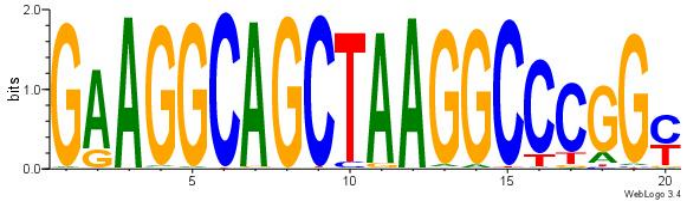

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

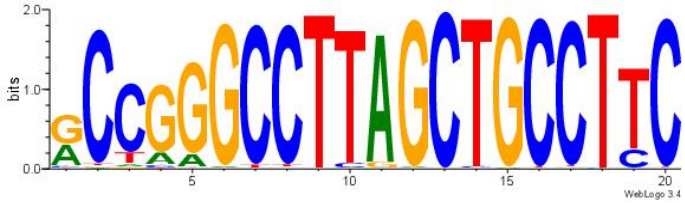

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0916769

Alignment:

```
GGGCTCCCACAGTGCAGCGG
---GGCCMGCAGGGCKGGC-
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

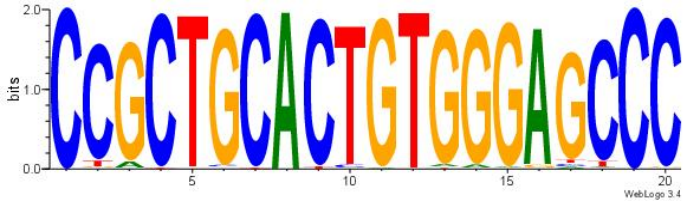

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

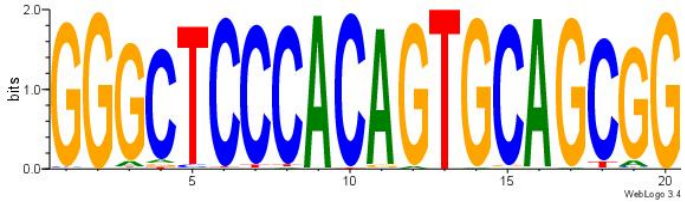

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.0923133

Alignment:
GCCKGGMKCMGTGGCTCAKG
----GCCRGCCCTGCYGGCC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

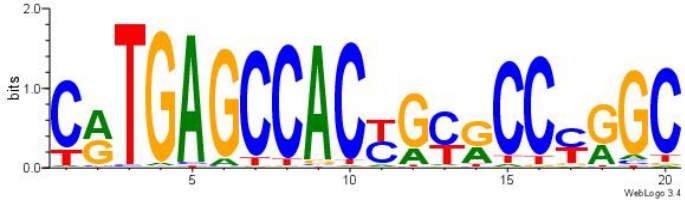

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

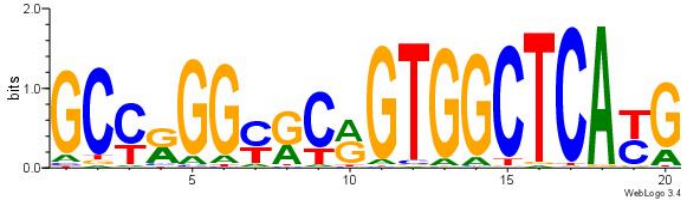

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.0931906

Alignment:
CCCACGCCCACCCGGAACT
--GCCRGCCCTGCYGGCC-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

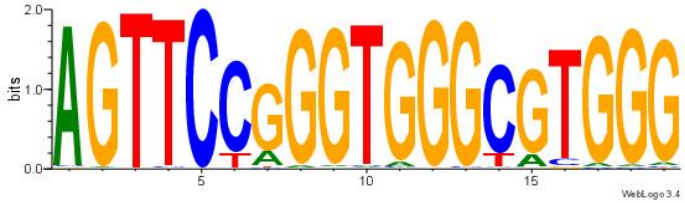

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

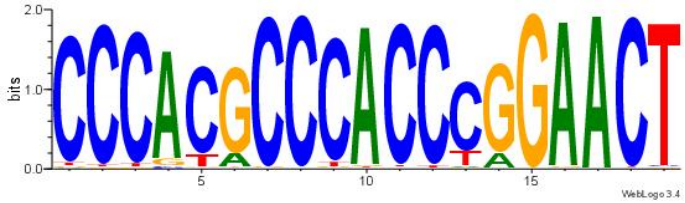

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0935275

Alignment:

```
GACCTGCAGCCCGCCATG
GGCCMGCAGGGCKGGC--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

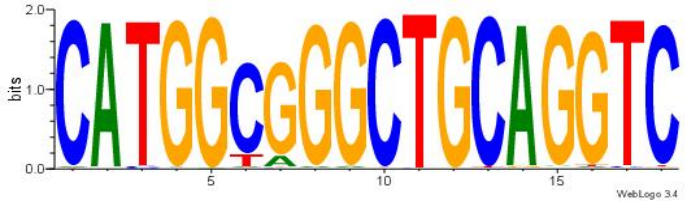

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

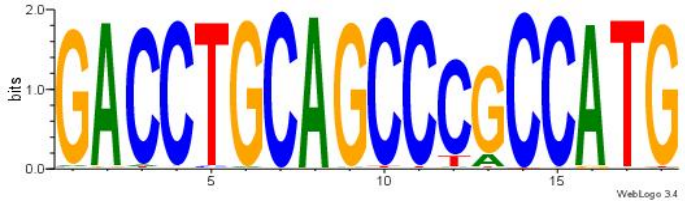

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.0941393

Alignment:

```
CGTCGCTCACGCTGGGAGCT
GCCRGCCCTGCYGGCC----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

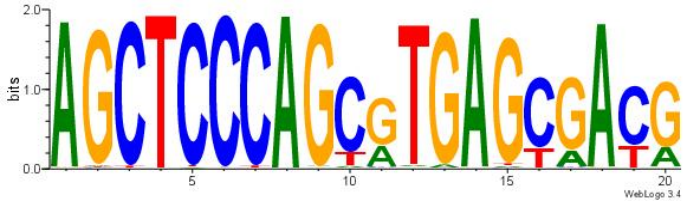

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

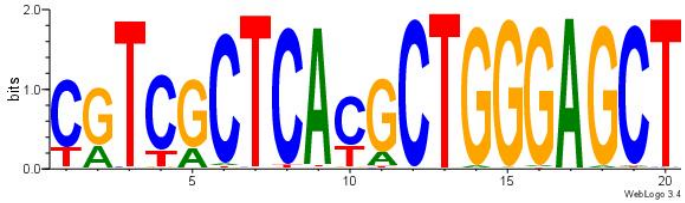

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.0942859

Alignment:
GGAGGTGTGGAGGGAGAGGC
---GGCCMGCAGGGCKGGC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

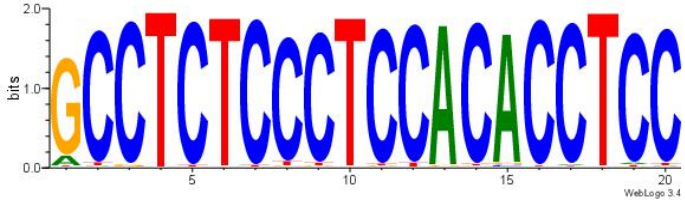

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

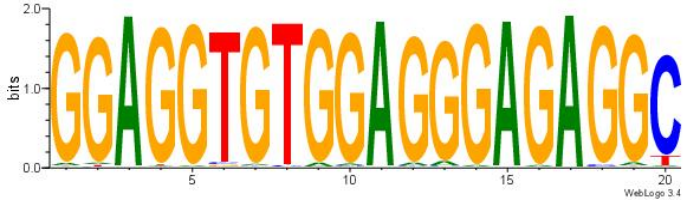

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.094605

Alignment:
GGGGGCTGACCCCCCCACC
---GCCRGCCCTGCYGGCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

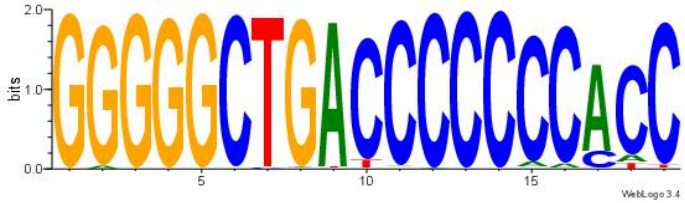

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

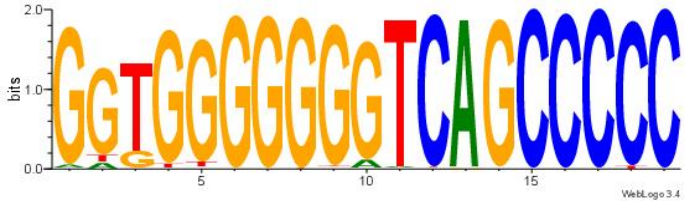

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0948794

Alignment:

```
GTGTCCCCTTCCTCCC
GCCRGCCCTGCYGGCC
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

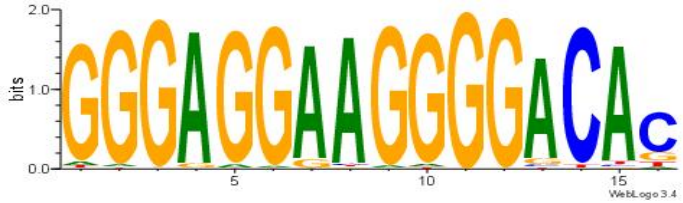

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

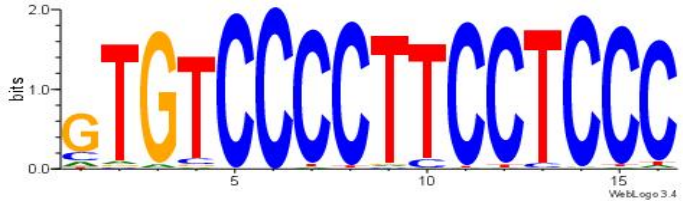

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0954318

Alignment:

```
GATCACGAGGTCAGGAG
-GGCCMGCAGGGCKGGC
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

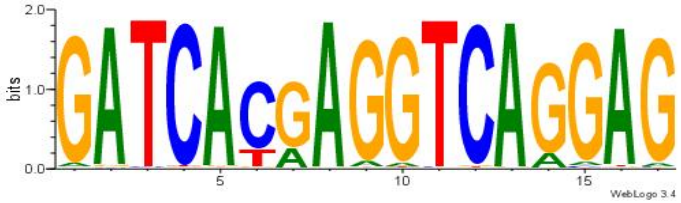

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

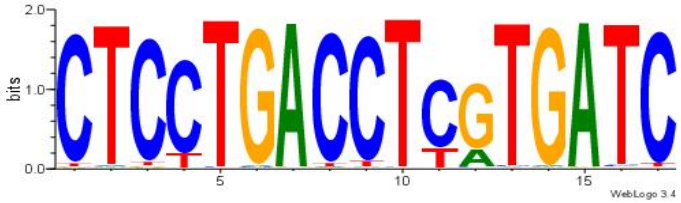

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.0957172

Alignment:
AGGAGRCMCTCTGCCTGGC
---GGCCMGCAGGGCKGGC

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

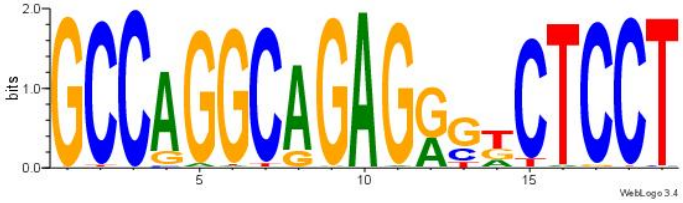

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

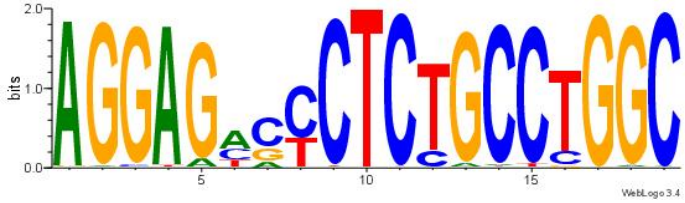

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0960477

Alignment:
AGGAGCGCCTCTKCCCGGC
---GCCRGCCCTGCYGGCC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

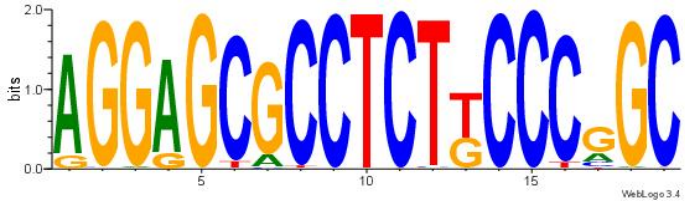

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

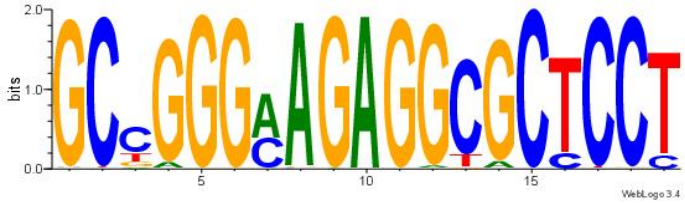

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.096306

Alignment:

```
AGGASCSTCYSWGCCMGGY
-GGCCMGCAGGGCKGGC--
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

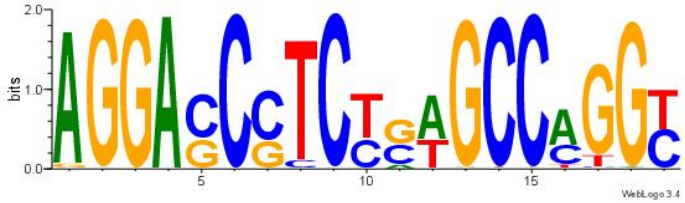

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

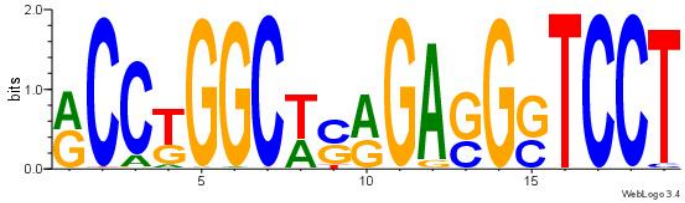

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.098535

Alignment:

```
AGCCCCGGTTCCCGCYCGC
-GCCRGCCCTGCYGGCC--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

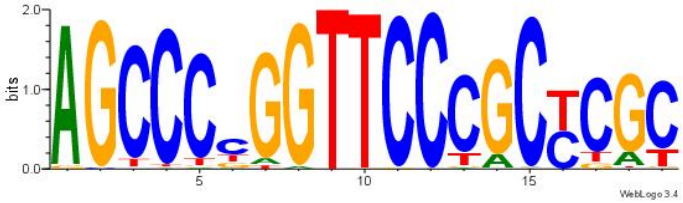

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

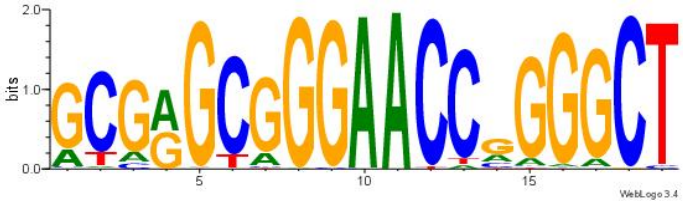

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.101056

Alignment:
GGTGCCCCTCTGGGACRAA
GCCRGCCCTGCYGGCC---

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

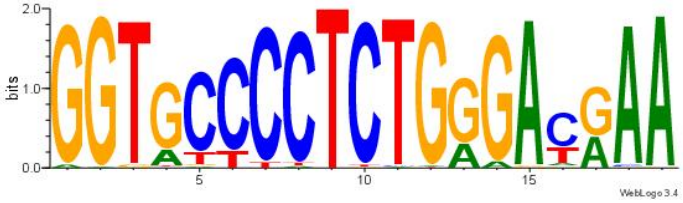

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

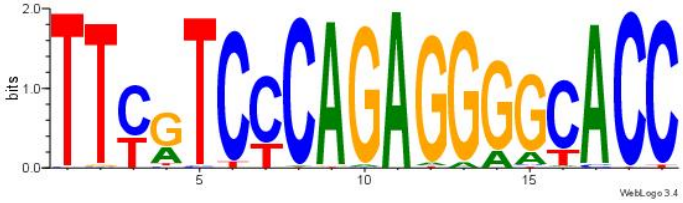

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.10155

Alignment:
GCTGGAGTGCAGTGGCRYGA
-GGCCMGCAGGGCKGGC---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

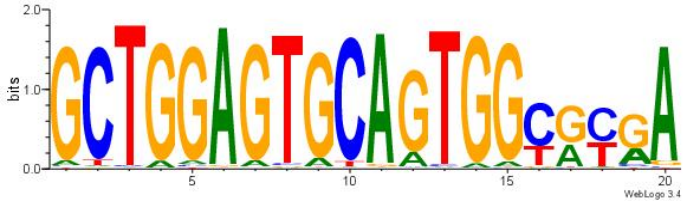

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

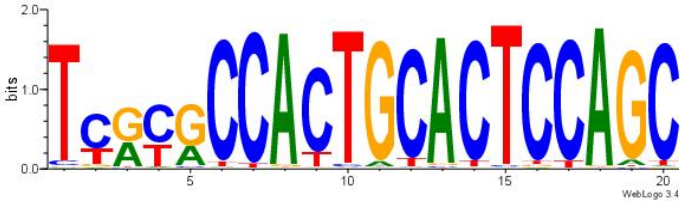

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.101726

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
--GCCRGCCCTGCYGGCC--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

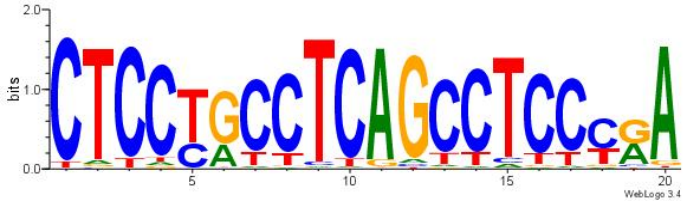

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

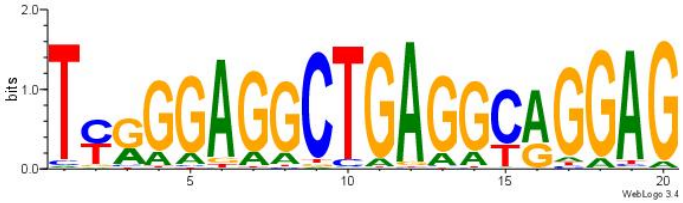

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.101811

Alignment:

```
CACCAGACTCAGGAGCCCAG
---GCCRGCCCTGCYGGCC-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

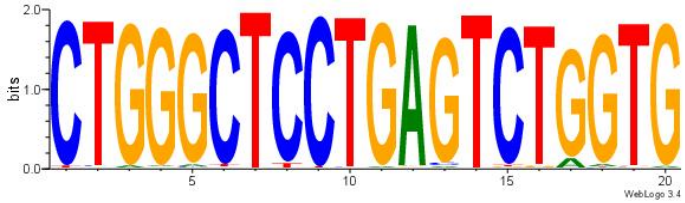

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

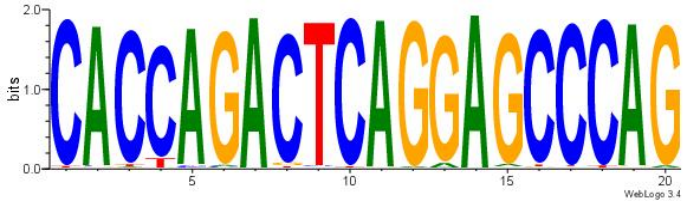

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.102066

Alignment:
ACCGAGMKMGCAGCTTCGGG
----GGCCMGCAGGGCKGGC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

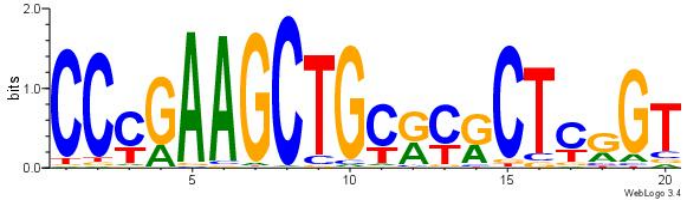

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

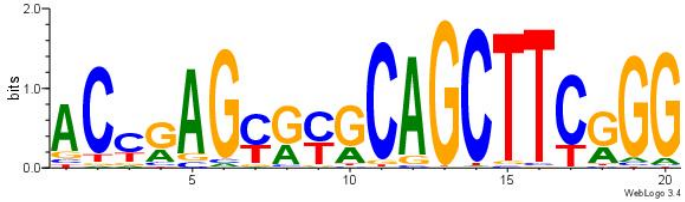

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.102994

Alignment:
CGCCCATCGTCTGGGATGT
--GCCRGCCCTGCYGGCC-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

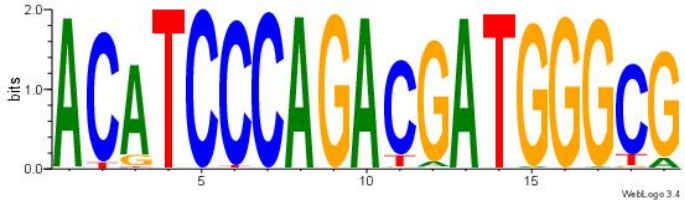

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

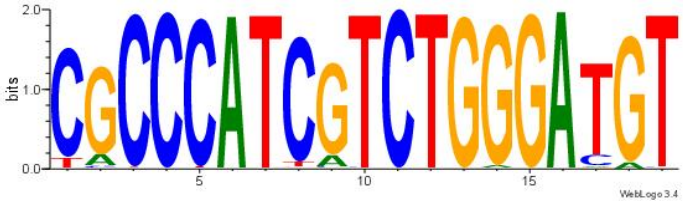

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.10344

Alignment:

```
GCTCCACCCAGTTCGAGCTT
--GGCCMGCAGGGCKGGC--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

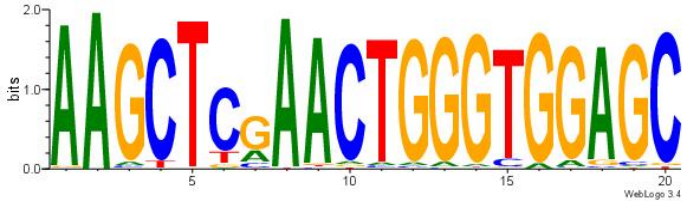

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

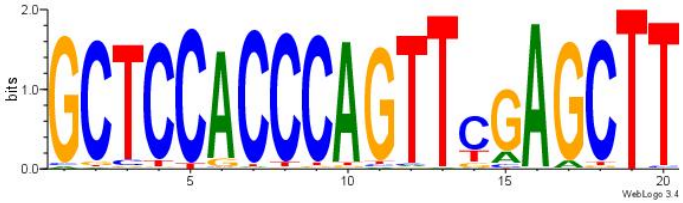

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.103921

Alignment:

```
CTGGCCCTCAATGGTTAAAC
--GGCCMGCAGGGCKGGC--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

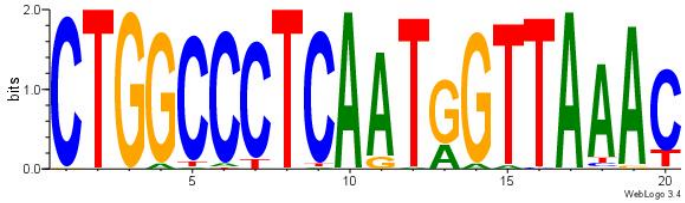

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

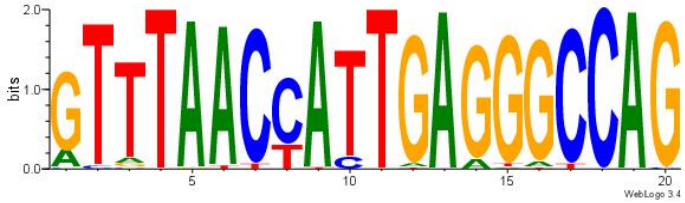

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.10508

Alignment:
TGGATGGATGGATGGAT
GGCCMGCAGGGCKGGC-

Original motif Consensus sequence: ATCCATCCATCCATCCA

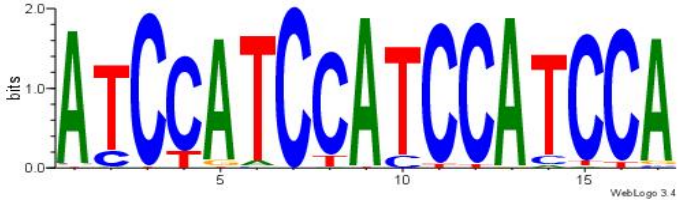

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.108238

Alignment:
TGCCCAGTCTGGAAAGTG
-GGCCMGCAGGGCKGGC-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

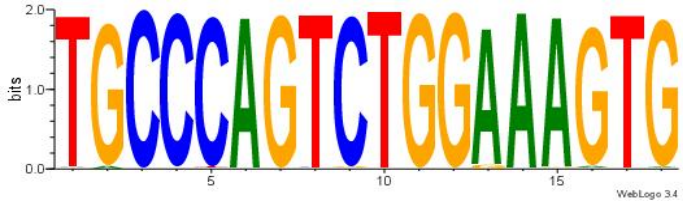

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

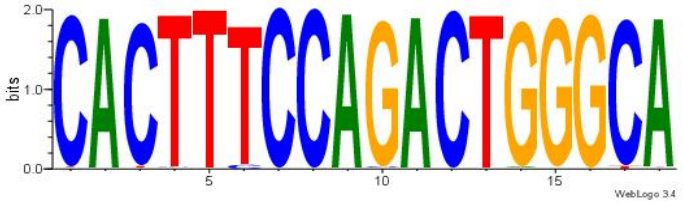

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.109517

Alignment:

```
AACAACASACACTGGGGCCT
GCCRGCCCTGCYGGCC----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

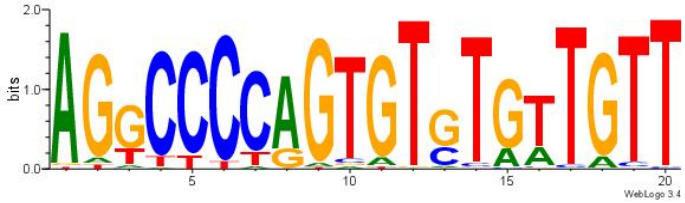

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

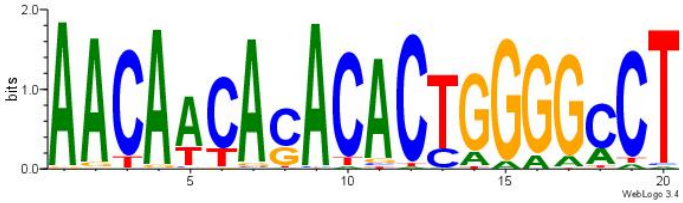

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.109624

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-GCCRGCCCTGCYGGCC---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

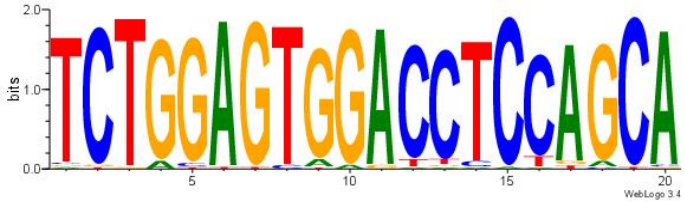

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

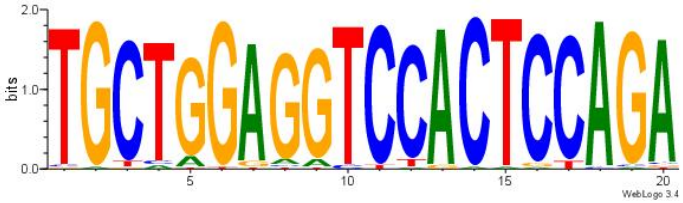

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.109652

Alignment:
GAATACCTCCTGAAGGACCT
--GCCRGCCCTGCYGGCC--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

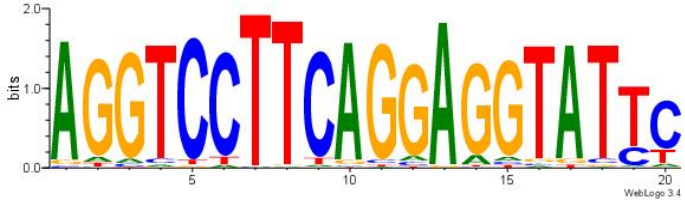

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

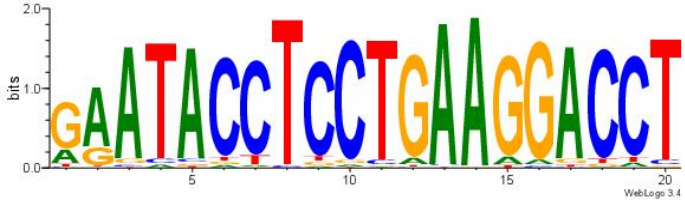

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.109712

Alignment:
CACCTCCCAGACMGGGT
-GGCCMGCAGGGCKGGC

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

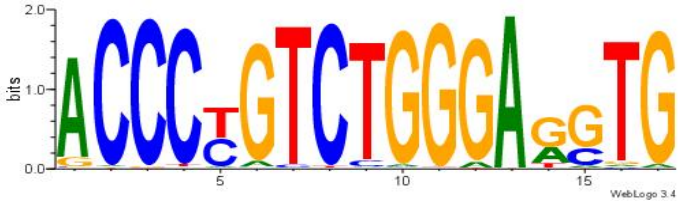

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

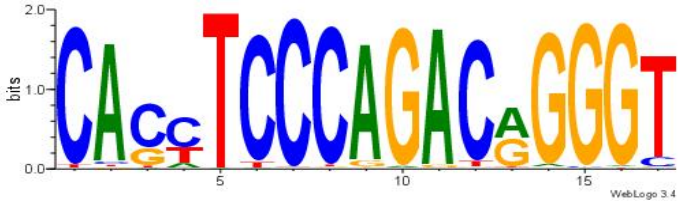

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.10982

Alignment:

```
TAMGACCTCAGGTCCTCAG
--GGCCMGCAGGGCKGGC-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

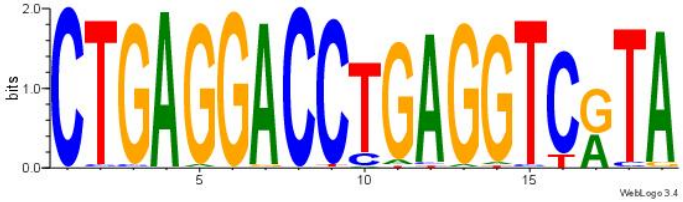

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

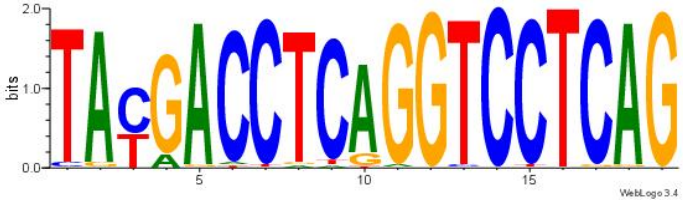

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.109925

Alignment:

```
GAAHCAACCKAAKTGTCCAT
--GCCRGCCCTGCYGGCC--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

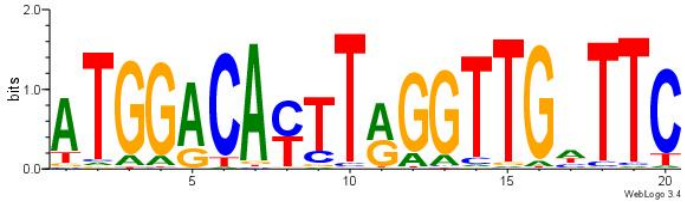

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

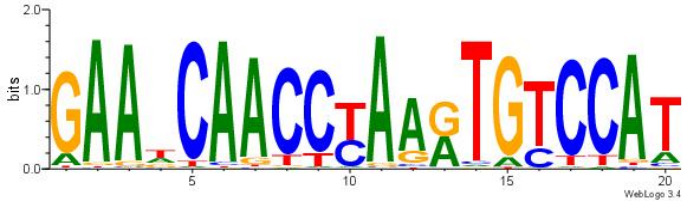

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.110633

Alignment:
AGACAGTGGGYGCAGGHCA
--GGCCMGCAGGGCKGGC-

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

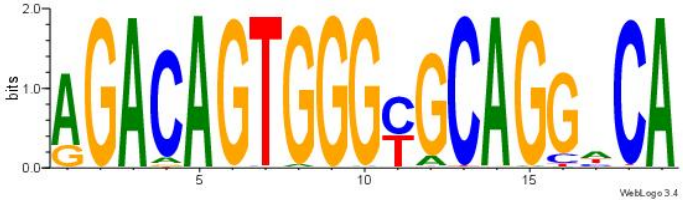

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

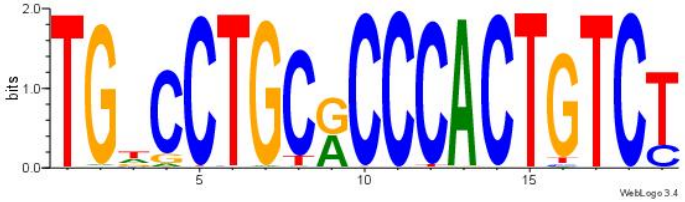

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.110946

Alignment:
GCCTCCTTGAGCTGTGGTGG
GGCCMGCAGGGCKGGC----

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

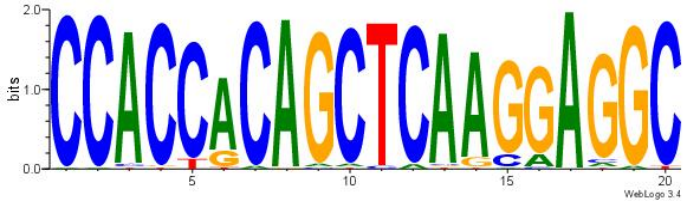

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

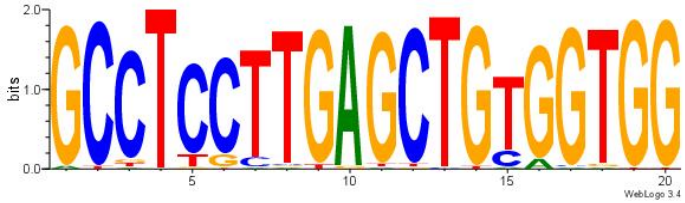

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.110974

Alignment:

```
CACTTCCCAGACGGGGCG
GCCRGCCCTGCYGGCC--
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

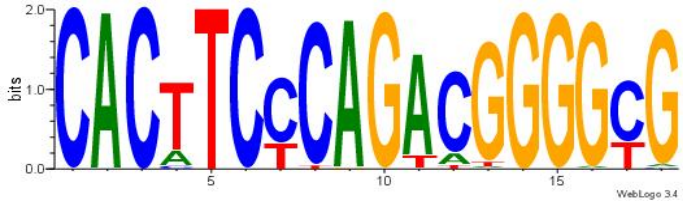

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

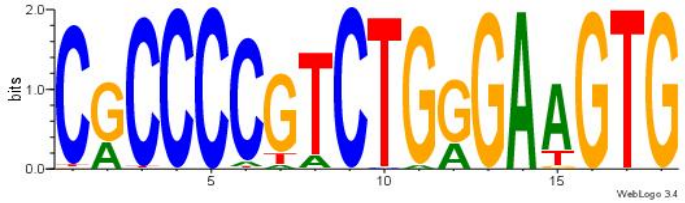

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.113988

Alignment:

```
CCTGCCATTGCYSAGGCTTG
GCCRGCCCTGCYGGCC----
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

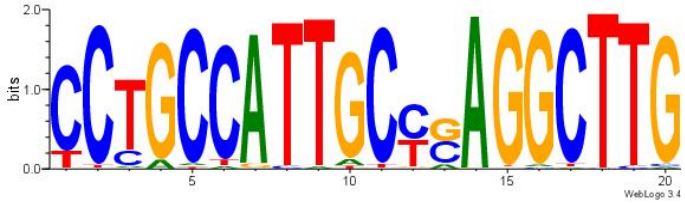

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

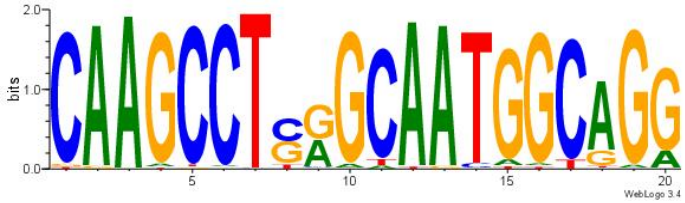

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.114093

Alignment:
ATGATCCAGCAATYCCACTH
----GCCRGCCCTGCYGGCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

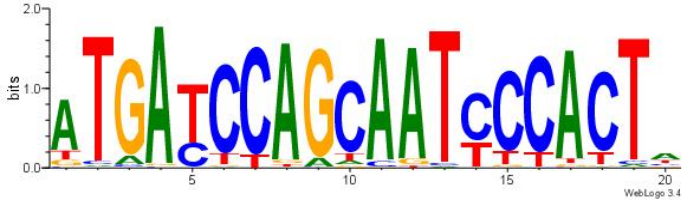

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

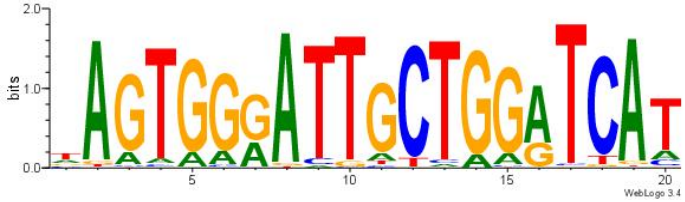

Dataset #: 1 Motif ID: 184 Motif name: Motif 184

Original motif Consensus sequence: ATATTGATGATCCTGACC

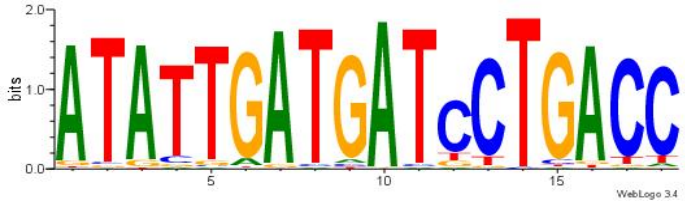

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

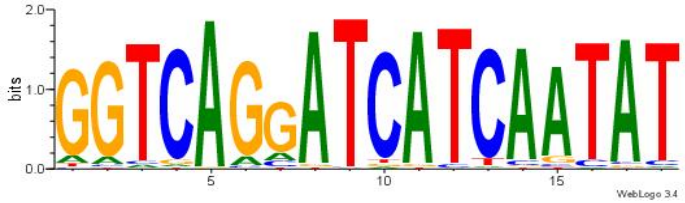

Best Matches for Motif ID 184 (Highest to Lowest)

Dataset #: 1
Motif ID: 254
Motif name: Motif 254

Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.08828

Alignment:

```
ATAGGAATGCTTGTGATTTT
ATATTGATGATCCTGACC--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

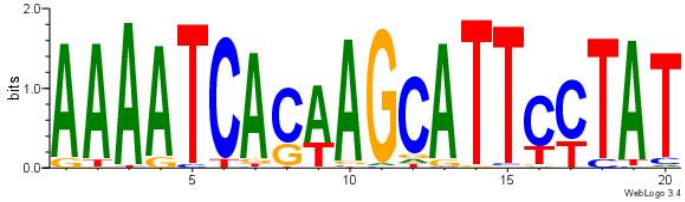

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

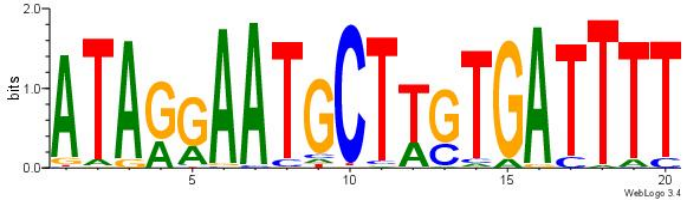

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0954042

Alignment:
GAAAGGGAACTCCCTGACCC
-ATATTGATGATCCTGACC-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

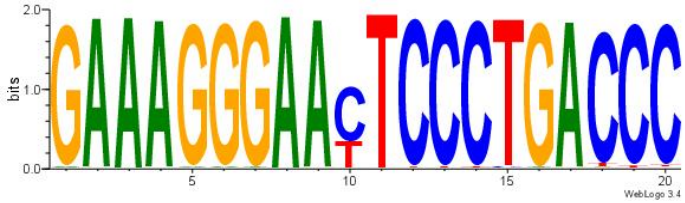

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

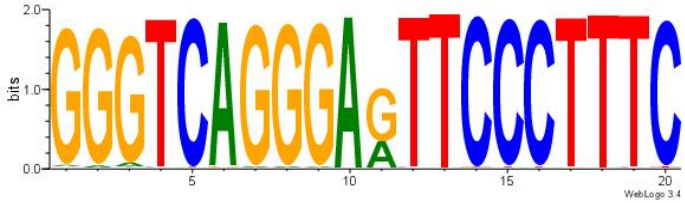

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0972719

Alignment:
CAACATGGATGRARCTGGAG
--ATATTGATGATCCTGACC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

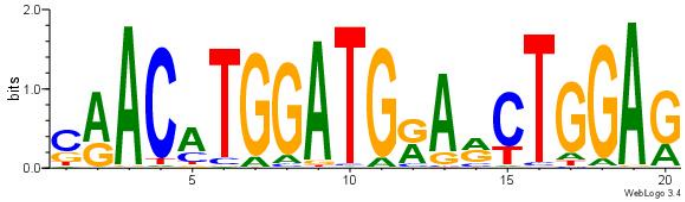

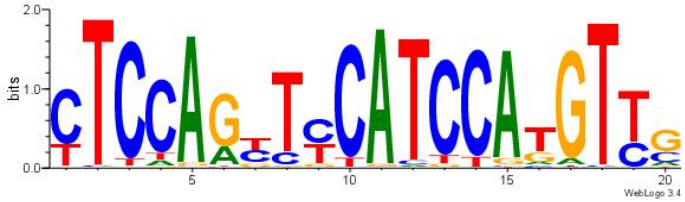

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.104578

Alignment:

```
GTTATTAATTGGCCTAATTT
-ATATTGATGATCCTGACC-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

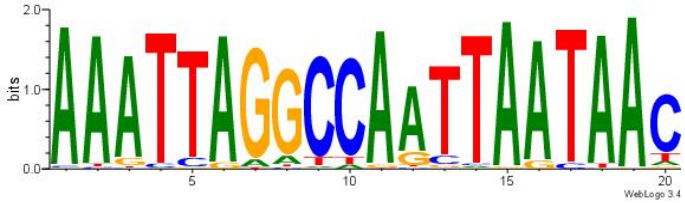

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.106783

Alignment:

```
AGGTTTGTTACATAGGTAWA
-GGTCAGGATCATCAATAT-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

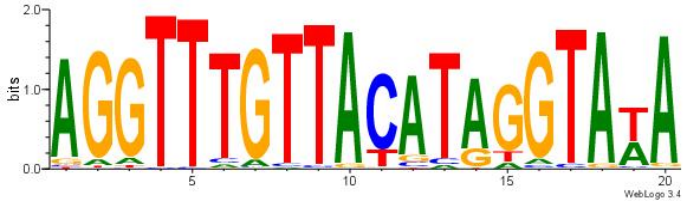

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

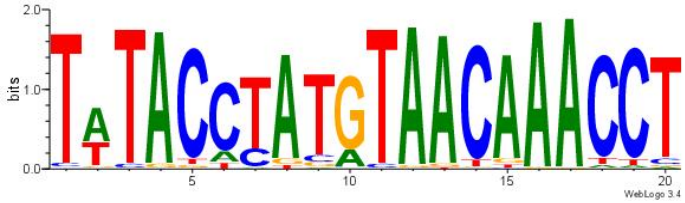

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.109904

Alignment:
GCAGCAMTATTCACAATAG
-GGTCAGGATCATCAATAT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

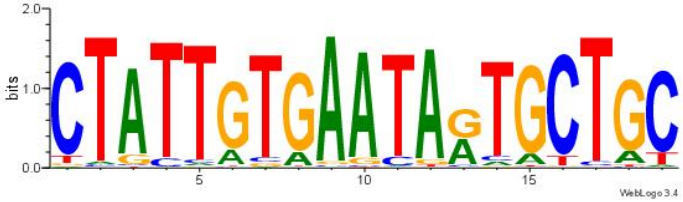

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

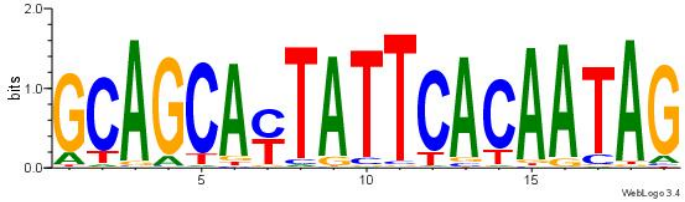

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.112492

Alignment:
AGAGCCAAATCATGARTGAA
-GGTCAGGATCATCAATAT-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

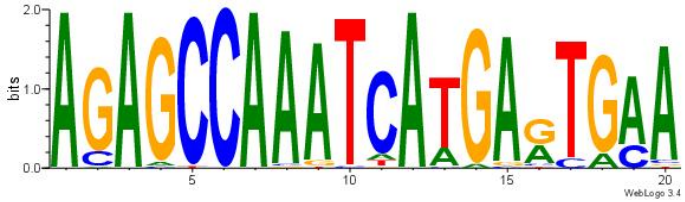

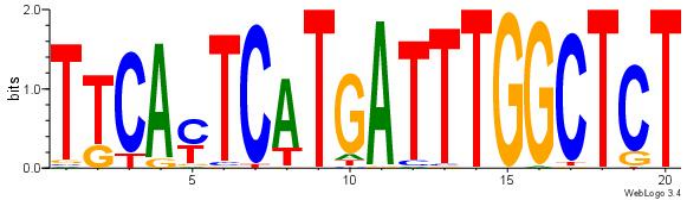

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.113021

Alignment:

```
ACTGTCTTCCACCTCCACAT
GGTCAGGATCATCAATAT--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

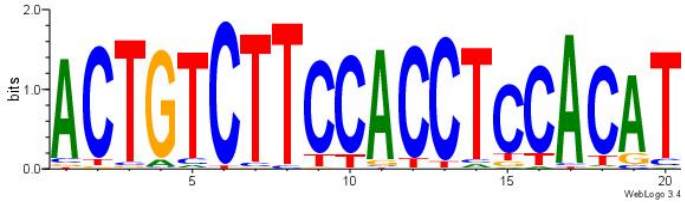

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

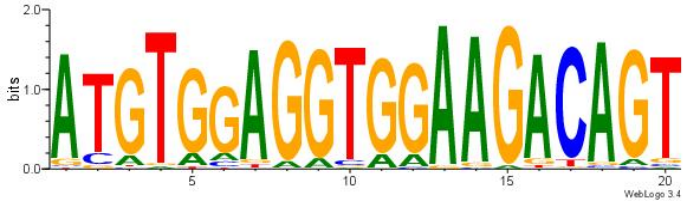

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.116113

Alignment:

```
AAAMAMMKMATGTTCTCACT
ATATTGATGATCCTGACC--
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

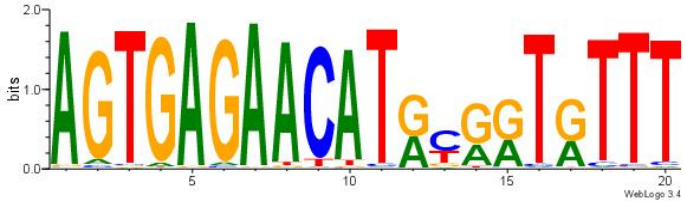

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

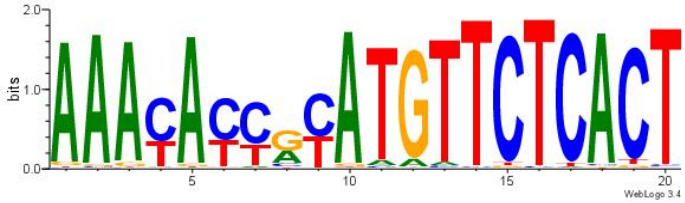

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.116544

Alignment:
AATTAAAAGACACAGACTG
ATATTGATGATCCTGACC-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

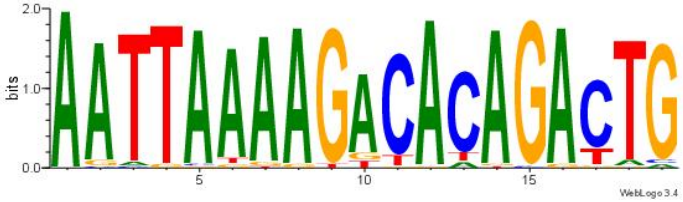

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

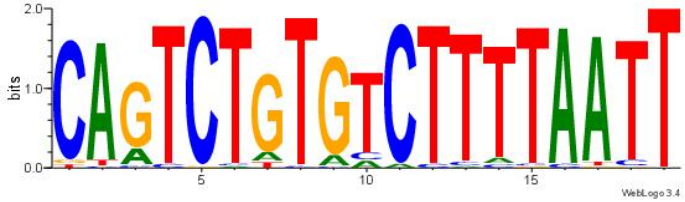

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.116811

Alignment:
AGTGACCCGATTTTCCAGGT
--GGTCAGGATCATCAATAT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

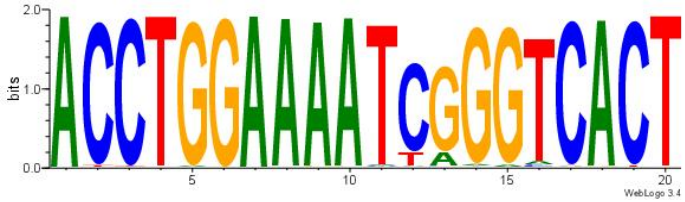

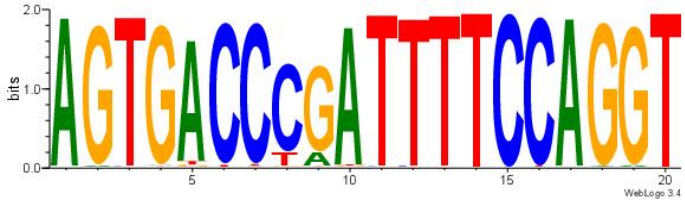

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.116866

Alignment:

```
TTGGTAGGATCCGTGATGCC
-GGTCAGGATCATCAATAT-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

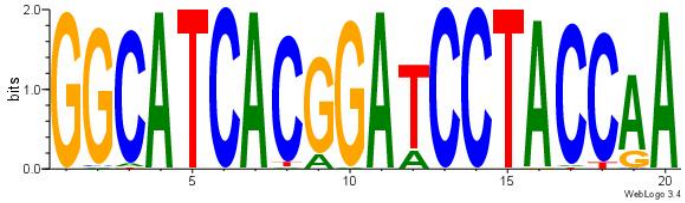

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

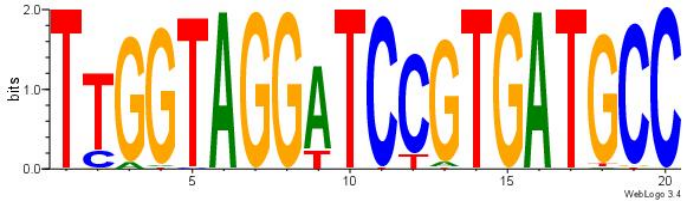

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.117925

Alignment:

```
GTGCCAGGCACTGTKCTARG
-GGTCAGGATCATCAATAT-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

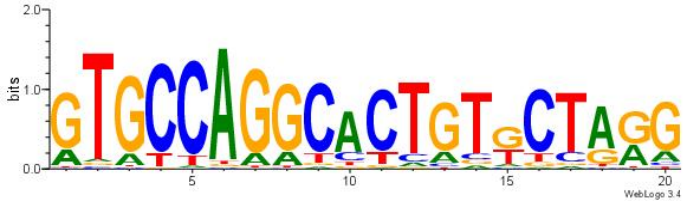

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

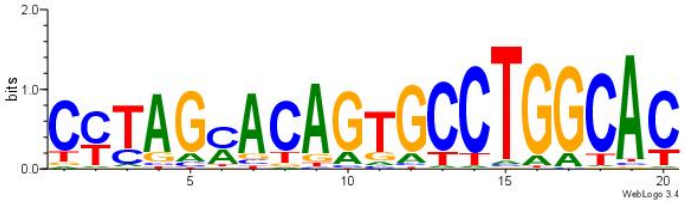

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.120857

Alignment:
GCTGCARTCTCGGCACTTT
-GGTCAGGATCATCAATAT

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

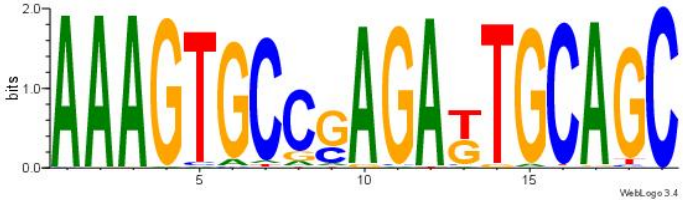

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

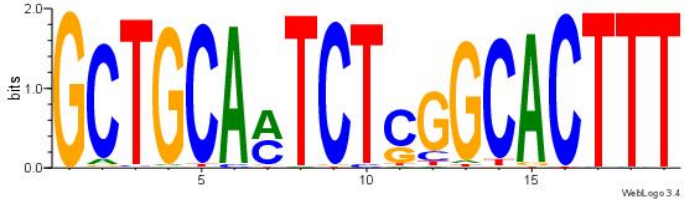

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.121591

Alignment:
AAATTACCCAGTCTCAGGTA
ATATTGATGATCCTGACC--

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

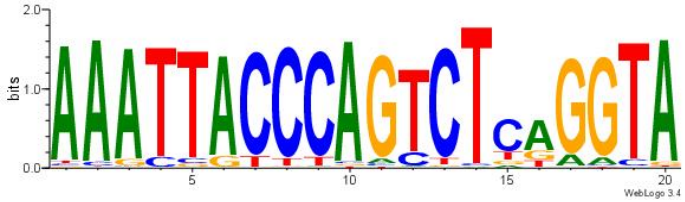

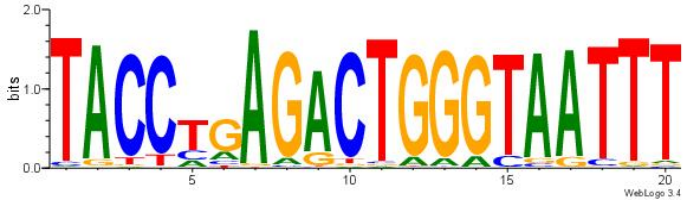

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.122607

Alignment:

```
AAGTCCAAGATCAAGGTGYY
GGTCAGGATCATCAATAT--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

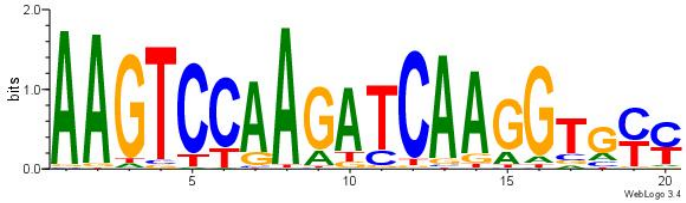

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

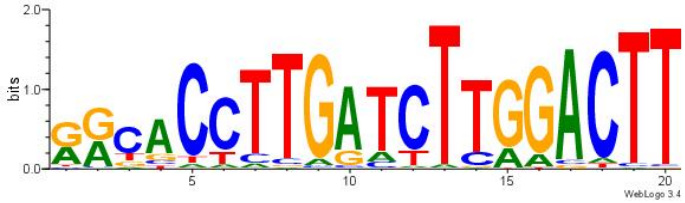

Dataset #:	1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.126169

Alignment:

```
TAGTGGTGATTTSTGAGAT
-GGTCAGGATCATCAATAT
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

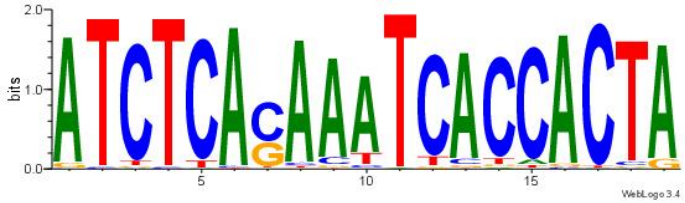

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

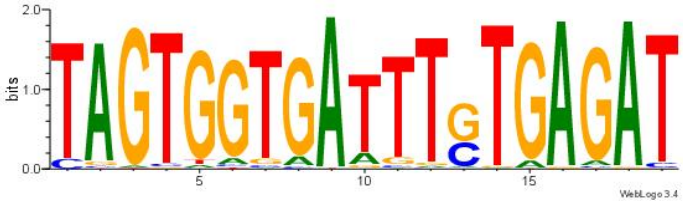

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.12675

Alignment:
AWTKKTGGTTKCCAGKGGCT
-ATATTGATGATCCTGACC-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

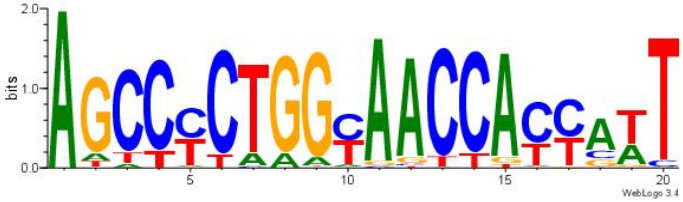

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

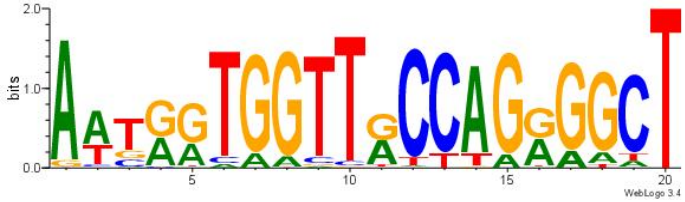

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.127267

Alignment:
GTKTMTATMTACCACATTTT
--ATATTGATGATCCTGACC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

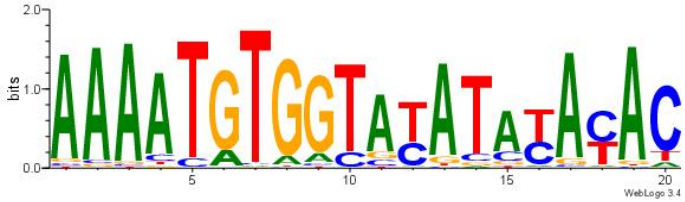

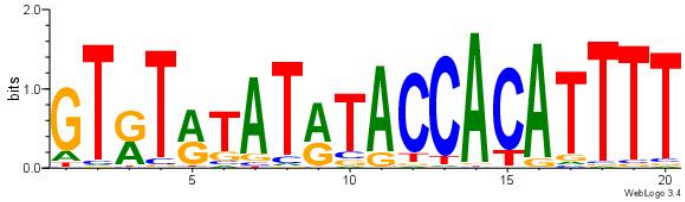

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.127736

Alignment:

```
TAGATAATAGCTCCAGCTTT
-ATATTGATGATCCTGACC-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

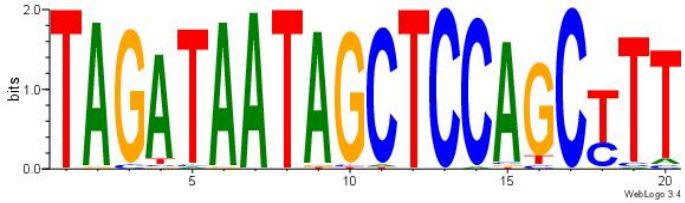

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

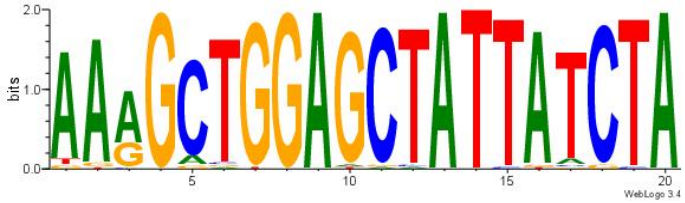

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.127741

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
ATATTGATGATCCTGACC--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

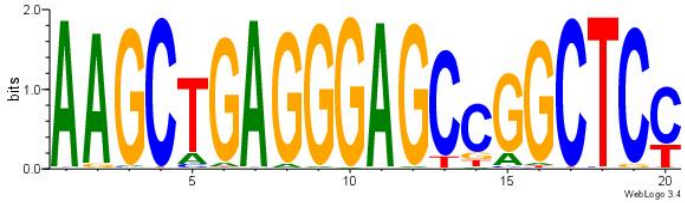

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

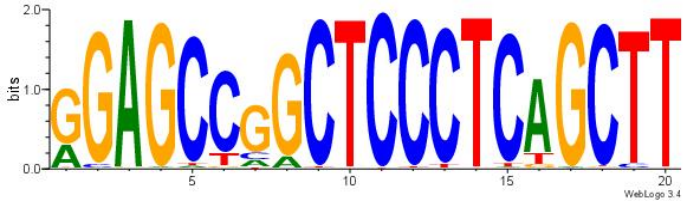

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.128259

Alignment:
ACATCCCAGACGATGGGCG
ATATTGATGATCCTGACC-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

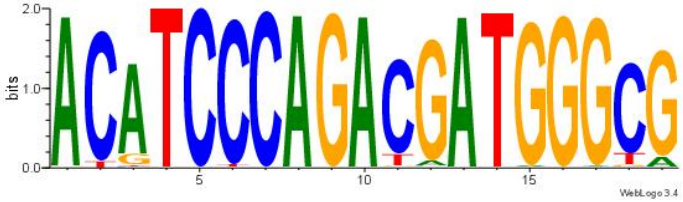

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

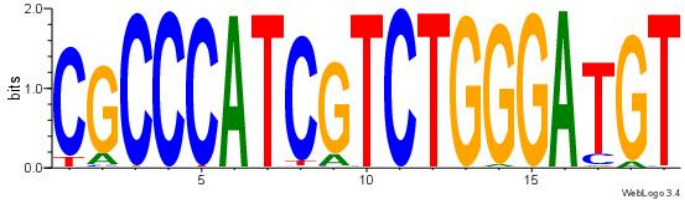

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.128555

Alignment:
ATTCAASATGAGATTTGGG
GGTCAGGATCATCAATAT-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

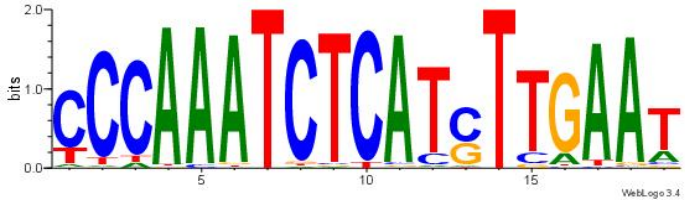

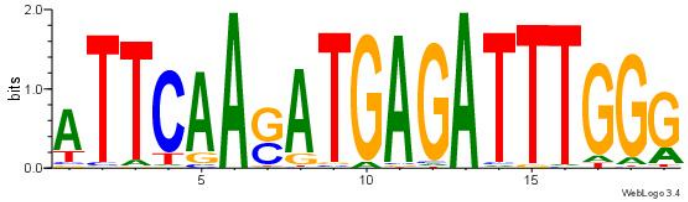

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.128577

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-GGTCAGGATCATCAATAT-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

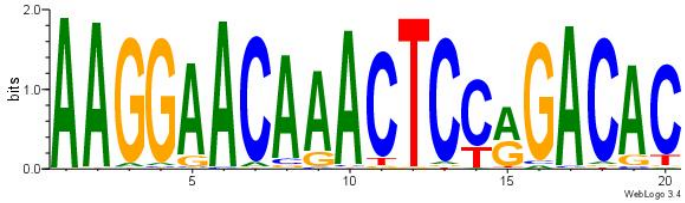

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

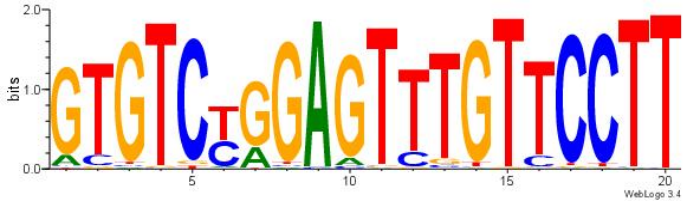

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.128826

Alignment:

```
AGTAGGTGCTCARTAAATRB
-GGTCAGGATCATCAATAT-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

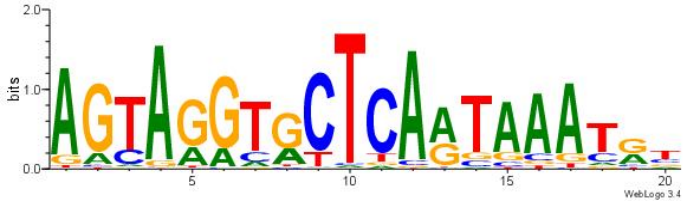

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

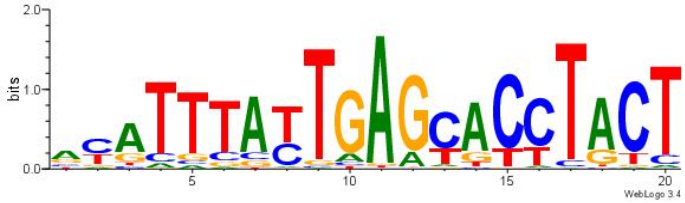

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.129777

Alignment:
GTCTCWAMAAAAAAWAMAAA
-GGTCAGGATCATCAATAT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

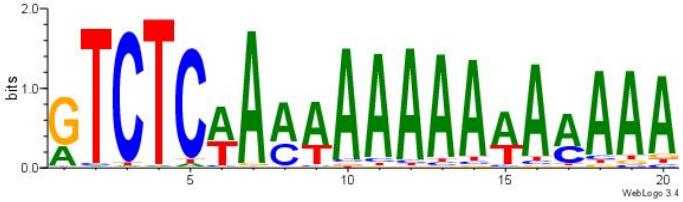

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

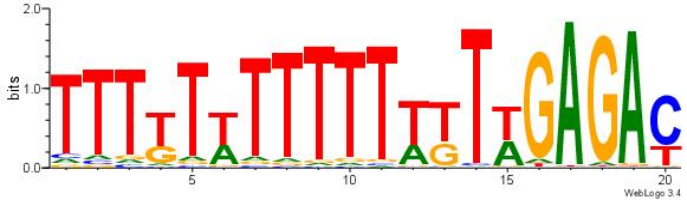

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.129888

Alignment:
AGGACTGAGGGTGCCYRGGG
-ATATTGATGATCCTGACC-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

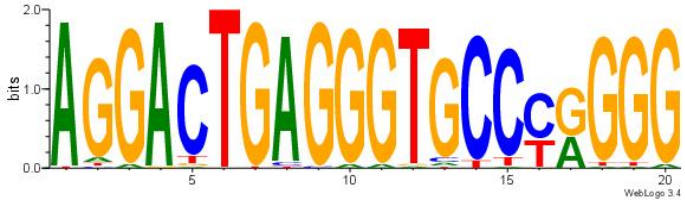

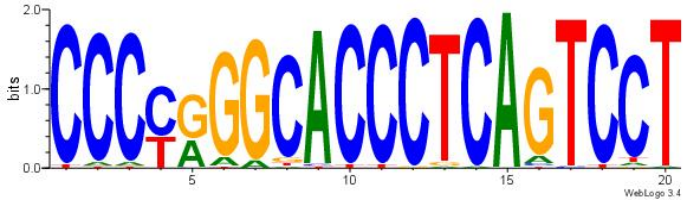

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.130247

Alignment:

```
ATGTAACCAAAYACCACCTG
ATATTGATGATCCTGACC--
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

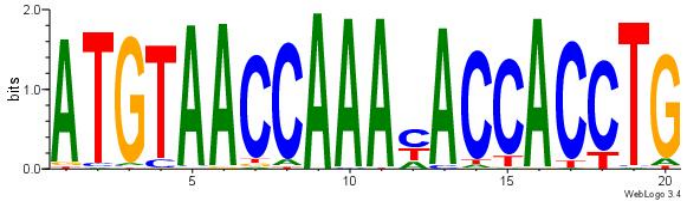

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

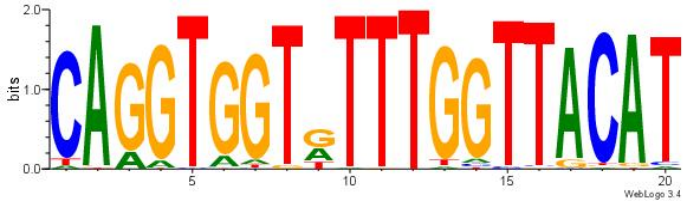

Dataset #:	1

Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.13291

Alignment:

```
GTTAACTGTAAAACAGCCT
-ATATTGATGATCCTGACC
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

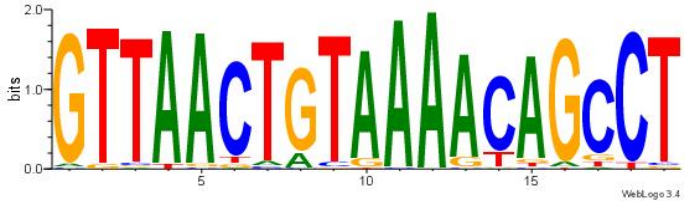

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

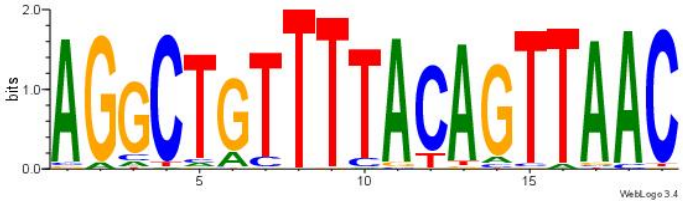

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.133282

Alignment:
GTTGTGAGGATTAAATGAG
-ATATTGATGATCCTGACC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

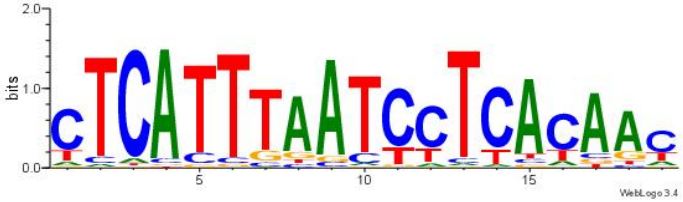

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

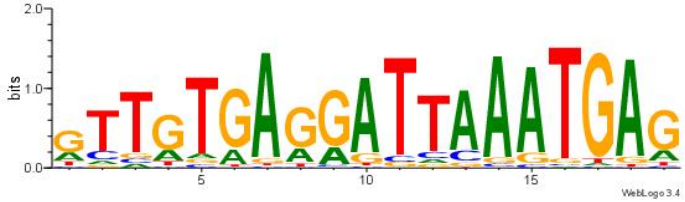

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.133356

Alignment:
CACCAGGAGATTATATCCCR
--GGTCAGGATCATCAATAT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

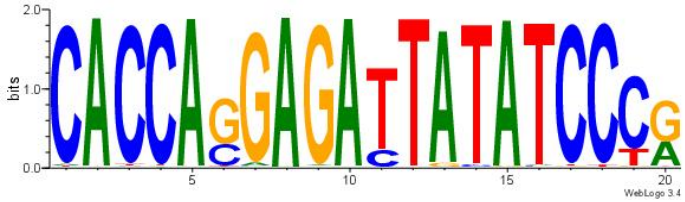

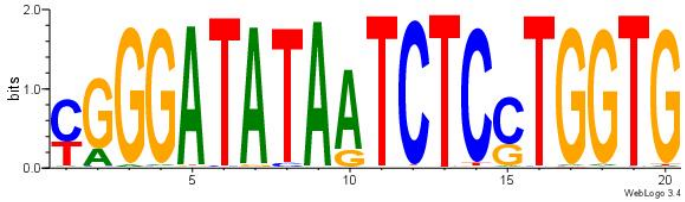

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.133477

Alignment:

```
ACAAGGCAAGTCCCTTCY
ATATTGATGATCCTGACC
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

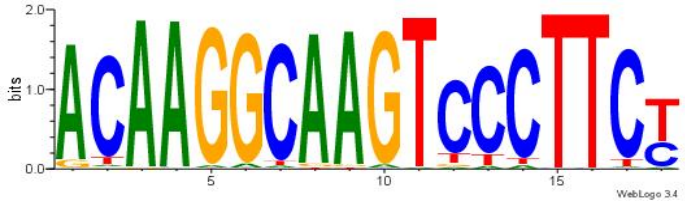

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

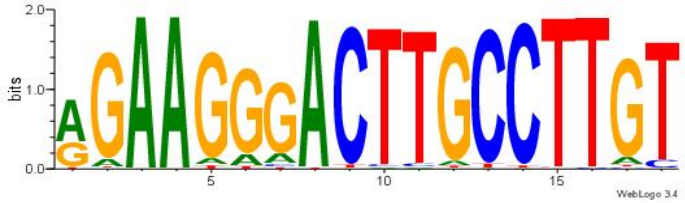

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.134203

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-GGTCAGGATCATCAATAT-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

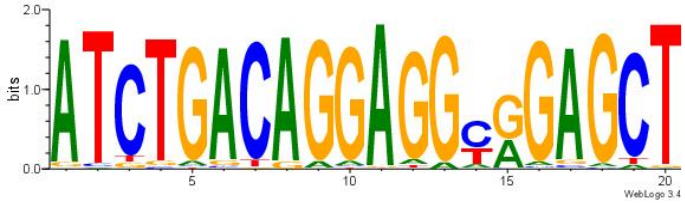

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

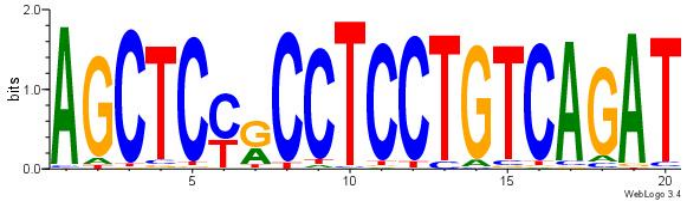

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.134545

Alignment:
AGAAATCGAGCRCAGCGCCG
--ATATTGATGATCCTGACC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

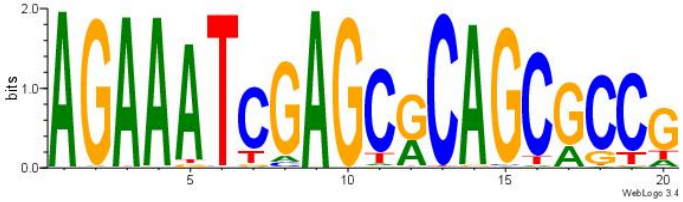

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

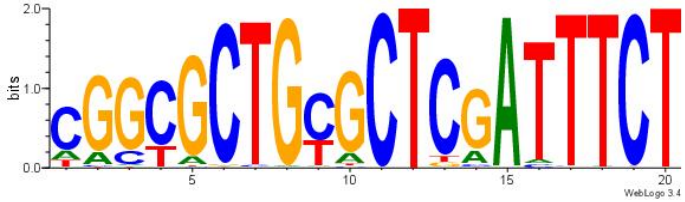

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.134885

Alignment:
TMGGGAGGCTGAGGCAGGAG
-GGTCAGGATCATCAATAT-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

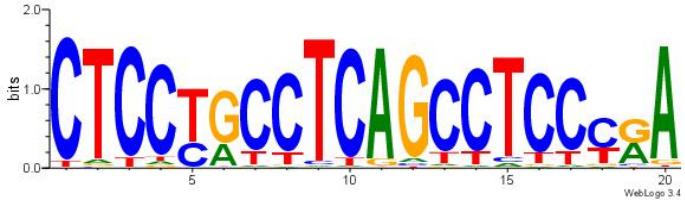

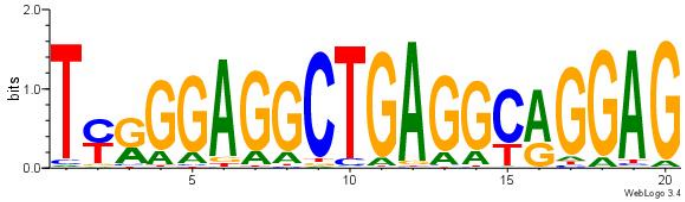

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.135327

Alignment:

```
AGACAGTGGGYGCAGGHCA
ATATTGATGATCCTGACC-
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

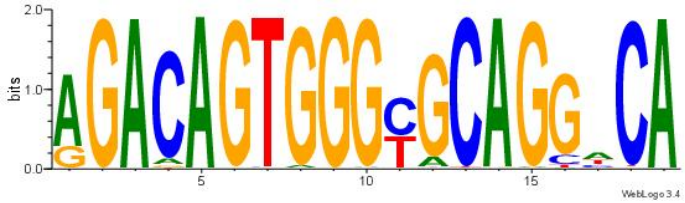

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

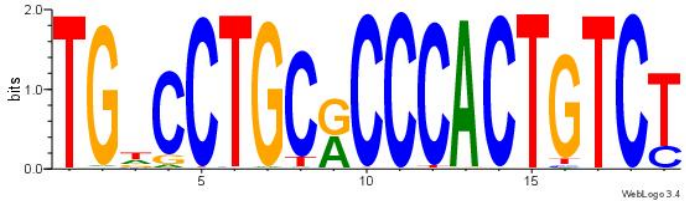

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.13607

Alignment:

```
GTGGCCCTCTTCTCACAGCT
--GGTCAGGATCATCAATAT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

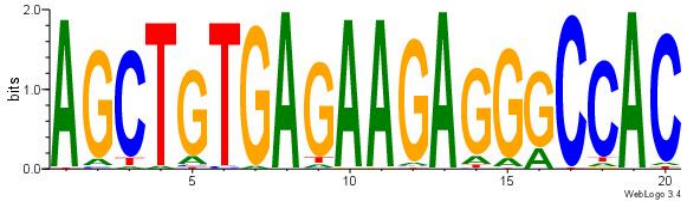

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

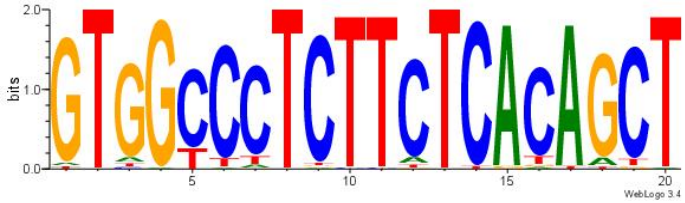

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.136823

Alignment:
ACCKTCGCGGTGAGTGTTAC
--GGTCAGGATCATCAATAT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

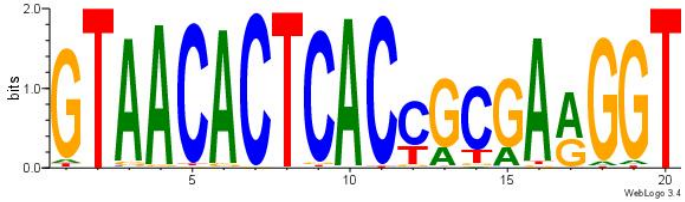

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

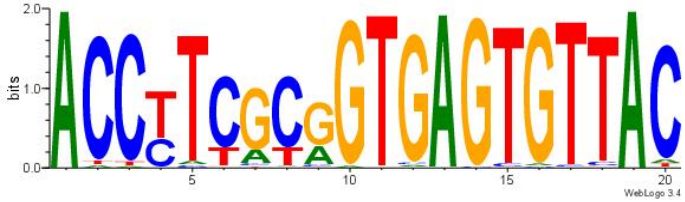

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.137351

Alignment:
CTGACTGGGAGACACCTCCC
--ATATTGATGATCCTGACC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

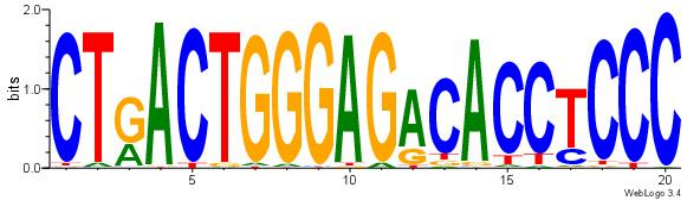

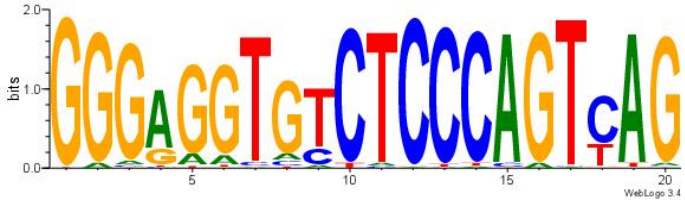

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.137583

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-ATATTGATGATCCTGACC-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

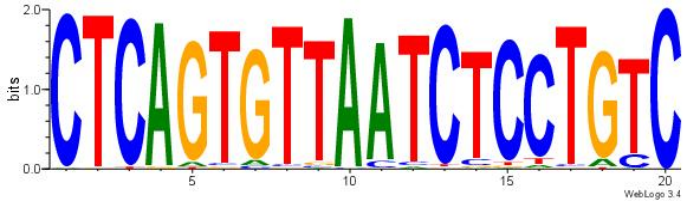

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

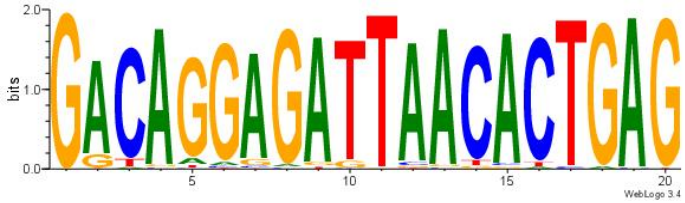

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.137632

Alignment:

```
GCTTAGCACCYGGGCCAGC
-GGTCAGGATCATCAATAT
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

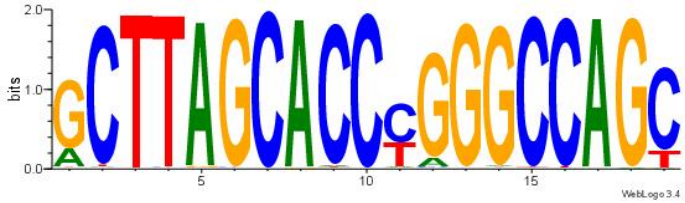

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

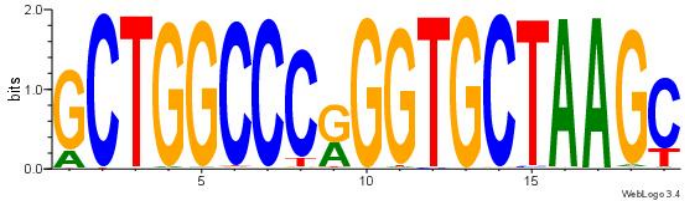

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.138076

Alignment:
CTGGGCTCCTGAGTCTGGTG
--ATATTGATGATCCTGACC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

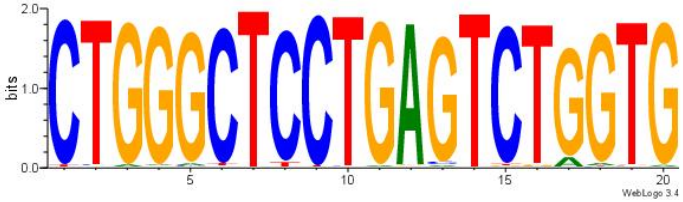

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

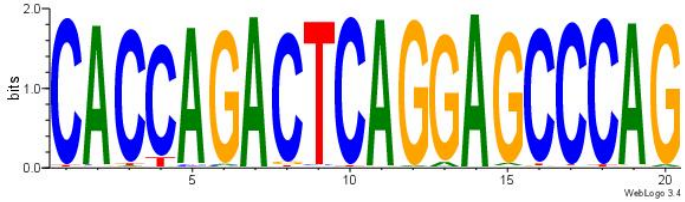

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.138242

Alignment:
ATCATTCTTATGCCTTTG
ATATTGATGATCCTGACC

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

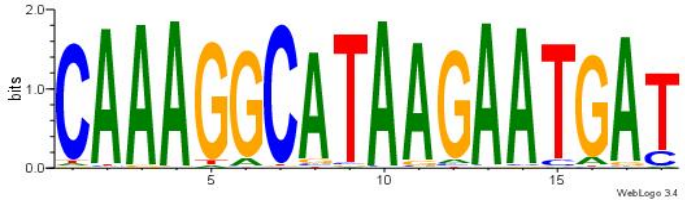

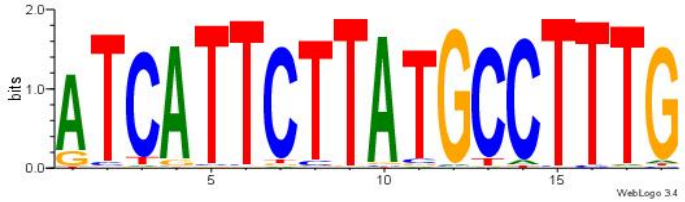

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.138257

Alignment:

```
GAAHCAACCKAAKTGTCCAT
--ATATTGATGATCCTGACC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

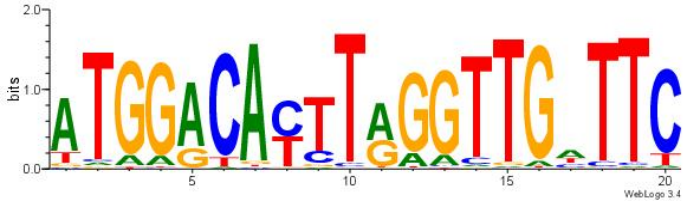

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

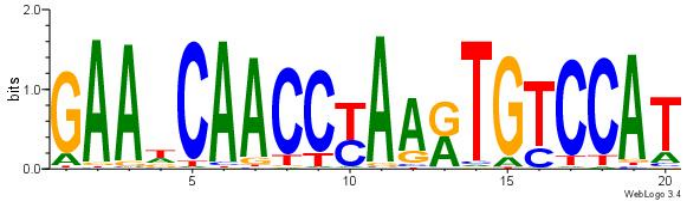

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.138703

Alignment:

```
GGGATTGTAAATACACCAAT
-ATATTGATGATCCTGACC-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

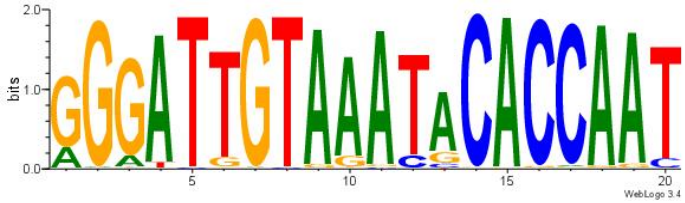

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.138817

Alignment:
TCCTATGAGAATCTAATG
GGTCAGGATCATCAATAT

Original motif Consensus sequence: CATTAGATTCTCATAGGA

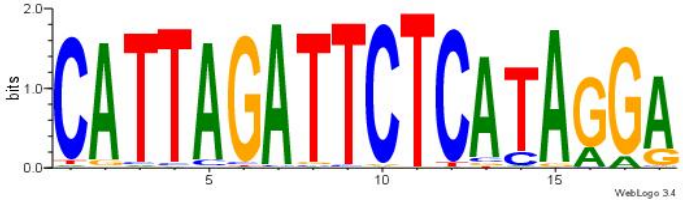

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

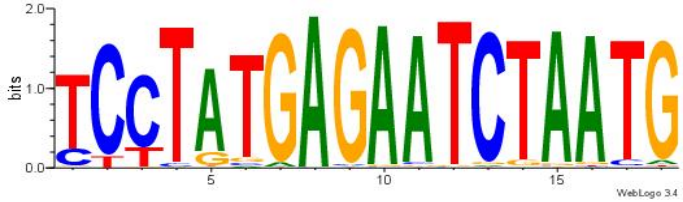

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.13907

Alignment:
ATGATCCAGCAATYCCACTH
-ATATTGATGATCCTGACC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

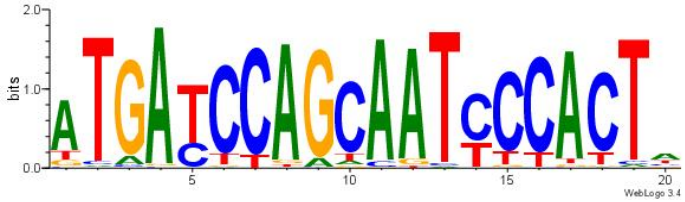

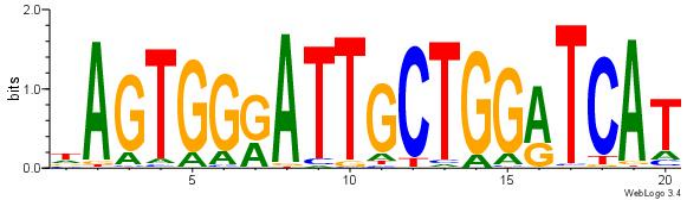

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.139347

Alignment:

```
GCACATGTAYCCYAGAACTT
GGTCAGGATCATCAATAT--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

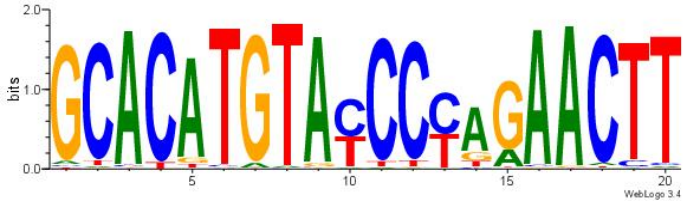

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

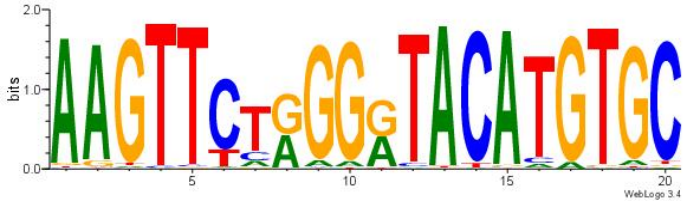

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.139624

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-ATATTGATGATCCTGACC-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

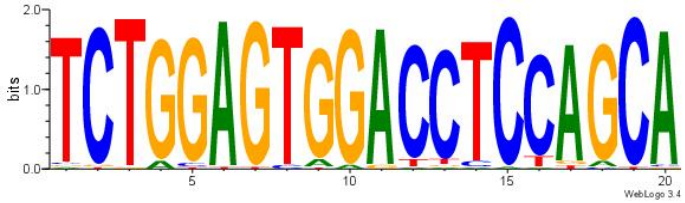

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

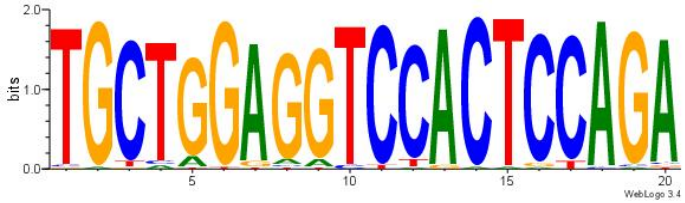

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.139963

Alignment:
MCCYGGCWSMGASGSTCCT
-ATATTGATGATCCTGACC

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

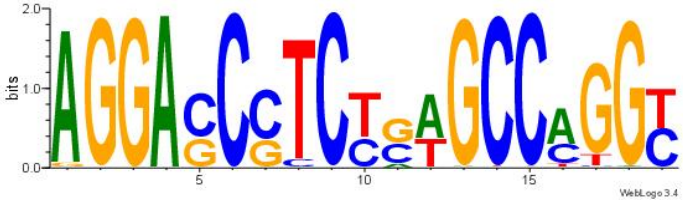

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

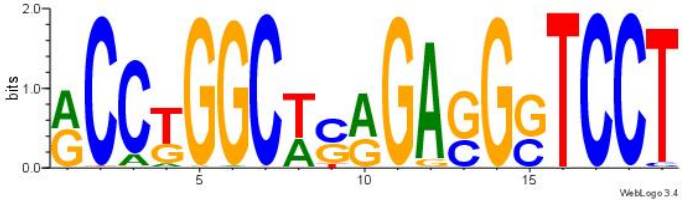

Dataset #: 1 Motif ID: 185 Motif name: Motif 185

Original motif Consensus sequence: GAAGATGAMG

Reverse complement motif Consensus sequence: CYTCATCTTC

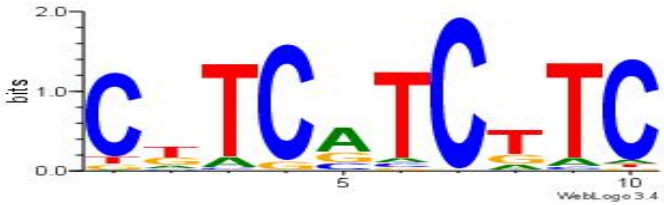

Best Matches for Motif ID 185 (Highest to Lowest)

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.038579

Alignment:
VCCDCCTCCKCCTCCTC
----CYTCATCTTC---

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

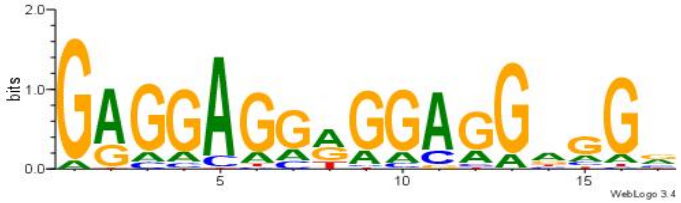

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

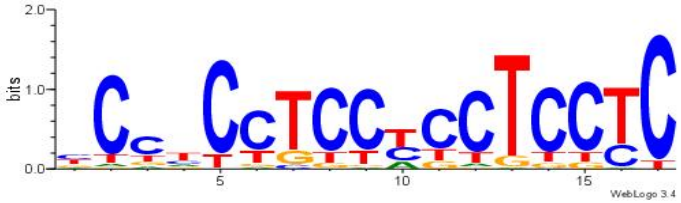

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0396628

Alignment:
TMGGGAGGCTGAGGCAGGAG
------GAAGATGAMG----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

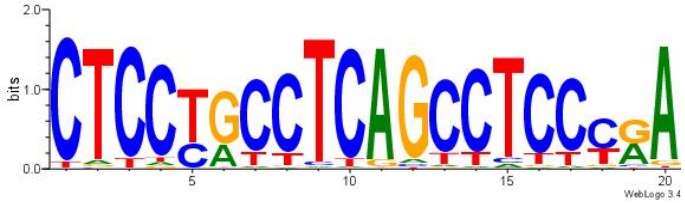

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

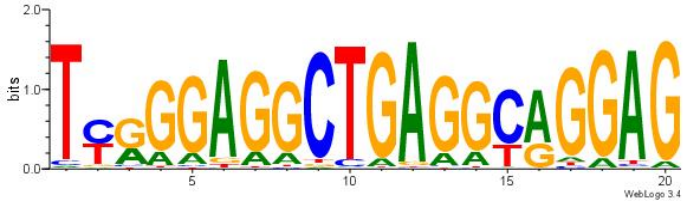

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0437873

Alignment:

```
CAGACTGCCTCCTCAA
----CYTCATCTTC--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

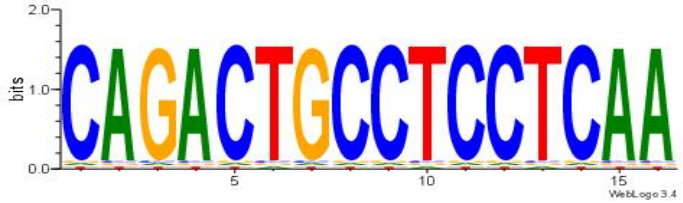

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

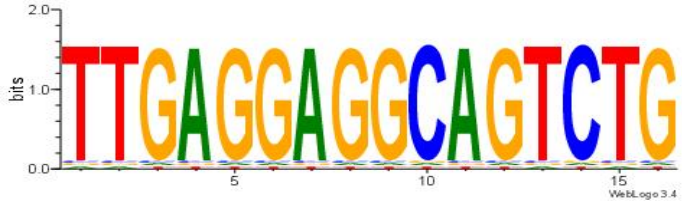

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0453186

Alignment:

```
GCCCTCACCATCC
--CYTCATCTTC-
```

Original motif Consensus sequence: GCCCTCACCATCC

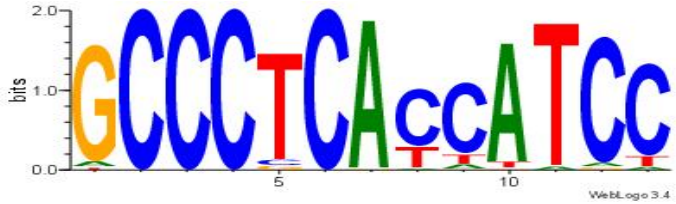

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

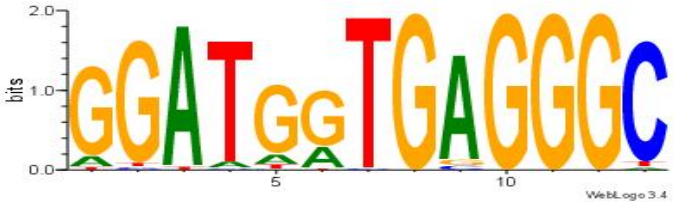

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0464636

Alignment:
GGAGGCKGAGG
GAAGATGAMG-

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0507705

Alignment:
ATGTGGAGGTGGAAGACAGT
-----GAAGATGAMG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

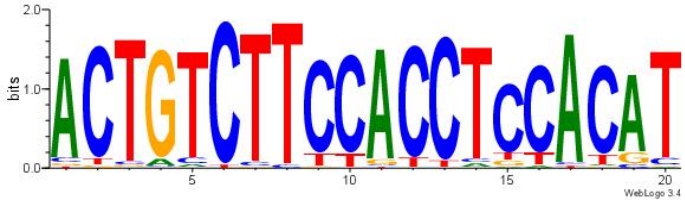

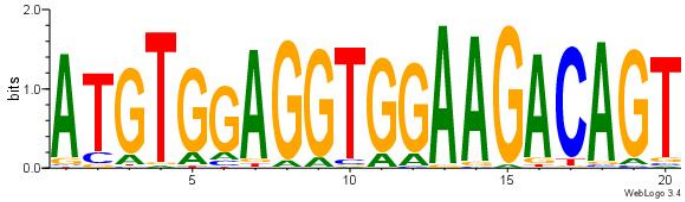

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0518527

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-CYTCATCTTC---------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

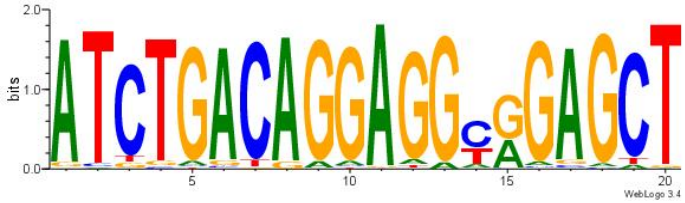

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

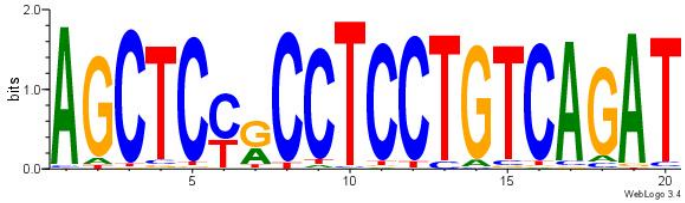

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0532594

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----GAAGATGAMG-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

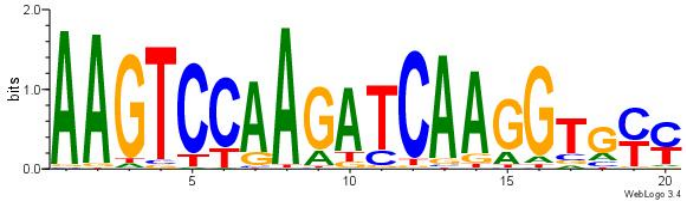

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

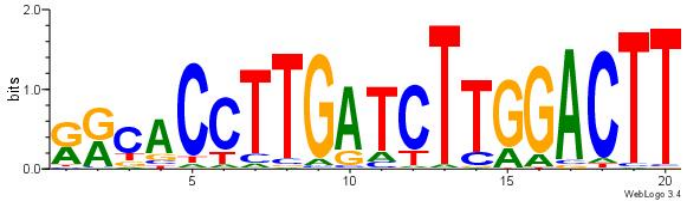

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0536127

Alignment:
MGGAAACTGAGGC
-GAAGATGAMG--

Original motif Consensus sequence: GCCTCAGTTTCCY

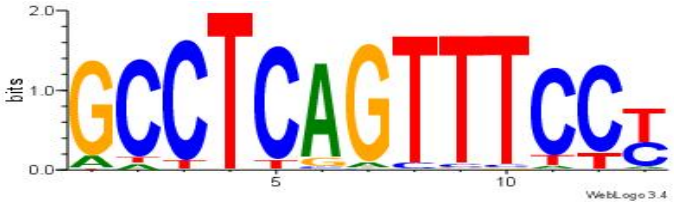

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

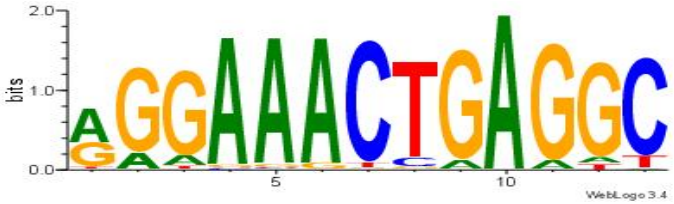

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0538191

Alignment:
CTTGCGCTTCCCRRGTGA
--------CYTCATCTTC

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

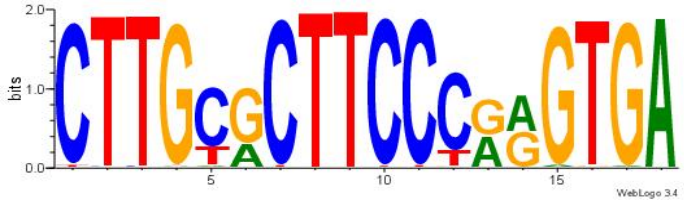

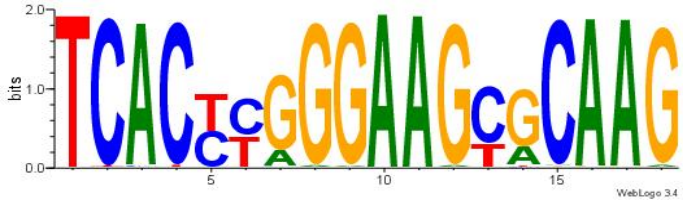

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0563454

Alignment:

```
GTTGTGAGGATTAAATGAG
----GAAGATGAMG-----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

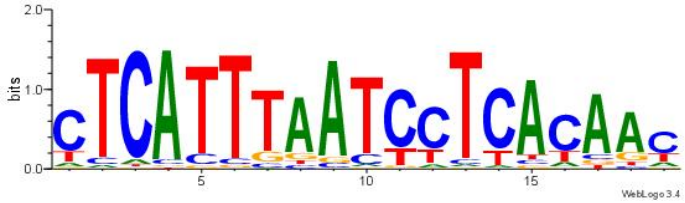

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

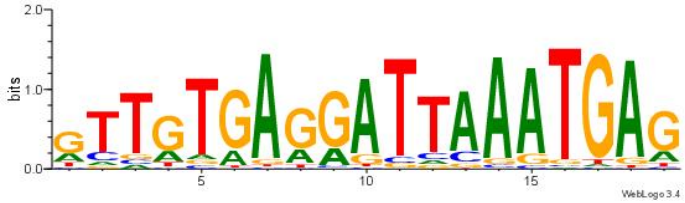

Dataset #:	1

Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0583218

Alignment:

```
GGTCCTCCTCTAT
CYTCATCTTC---
```

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

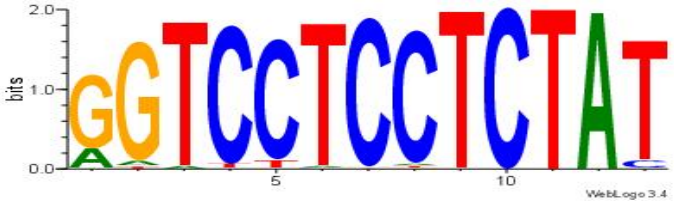

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0591049

Alignment:
AAAMAMMKMATGTTCTCACT
-----CYTCATCTTC-----

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

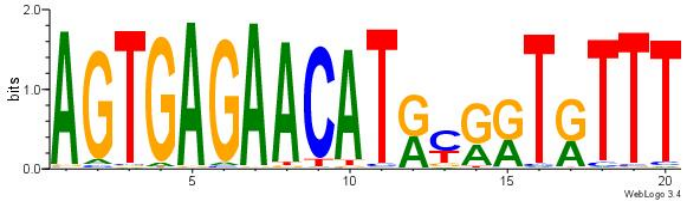

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

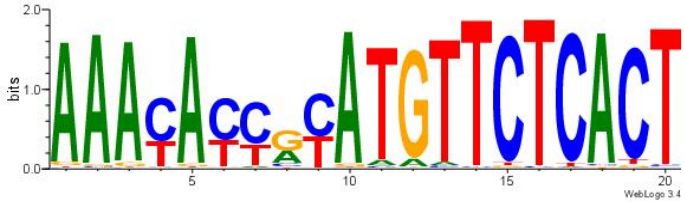

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0596264

Alignment:
ACATCMTCTGAAATCTAGG
-CYTCATCTTC--------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

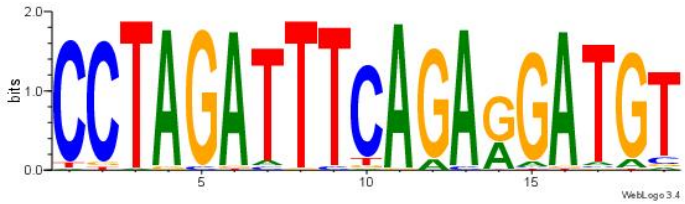

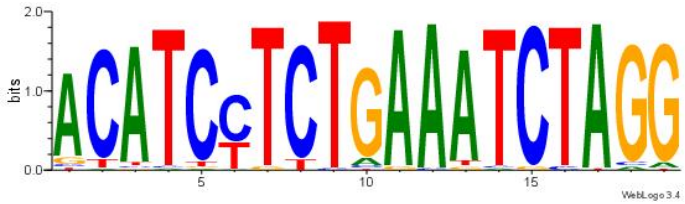

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.059834

Alignment:

```
GTGTCCCCTTCCTCCC
----CYTCATCTTC--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

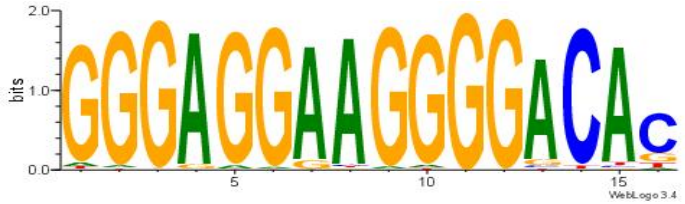

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

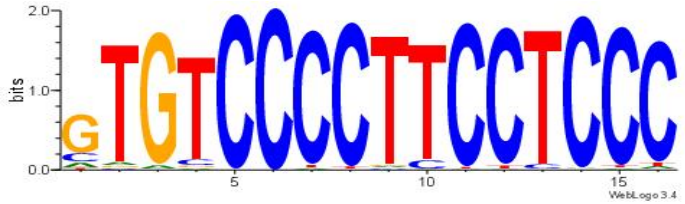

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0606298

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-GAAGATGAMG---------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

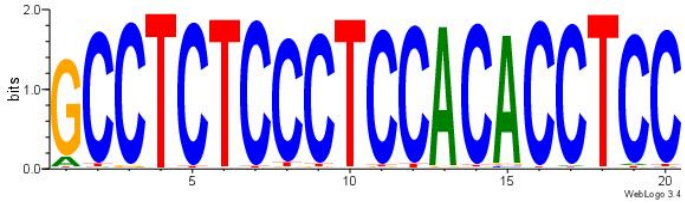

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

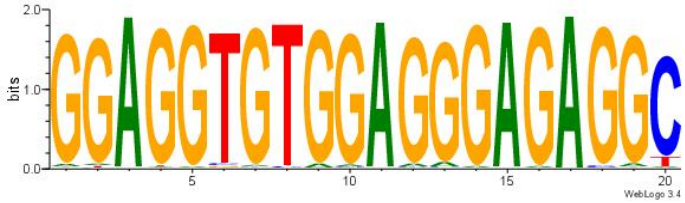

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0607821

Alignment:
CAAGATGGCGGC
GAAGATGAMG--

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

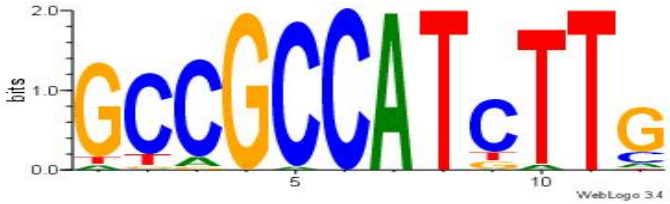

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0612431

Alignment:
AGCTGTGAGAAGAGGGCCAC
--------GAAGATGAMG--

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

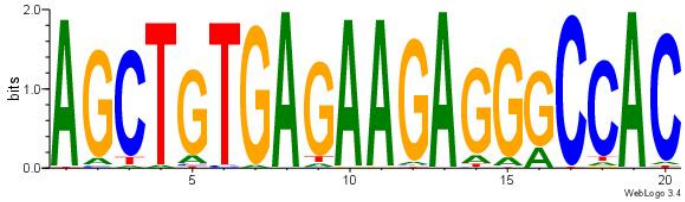

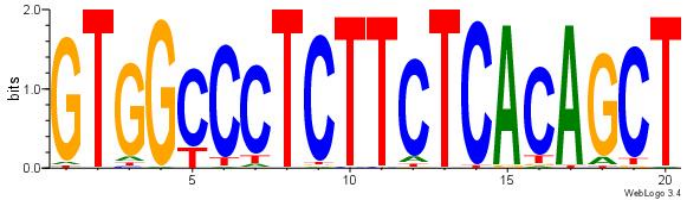

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0633434

Alignment:

```
GATCACGAGGTCAGGAG
GAAGATGAMG-------
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

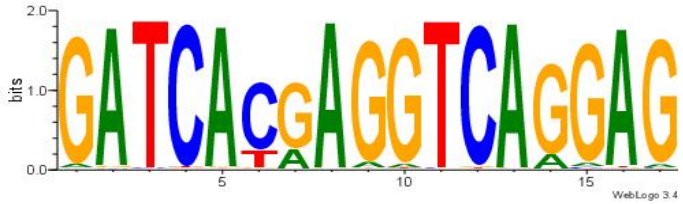

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

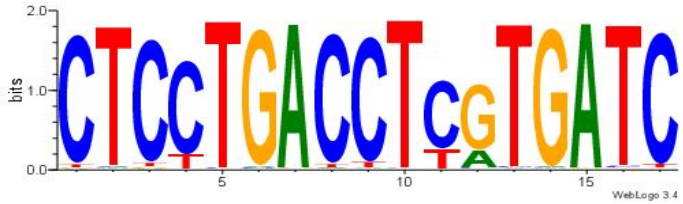

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.065156

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-------CYTCATCTTC---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

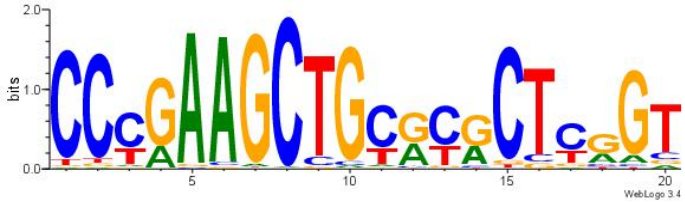

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

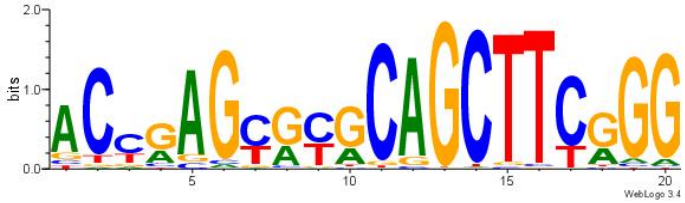

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10

Similarity score: 0.0671423

Alignment:
TAGATAATAGCTCCAGCTTT
----------CYTCATCTTC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

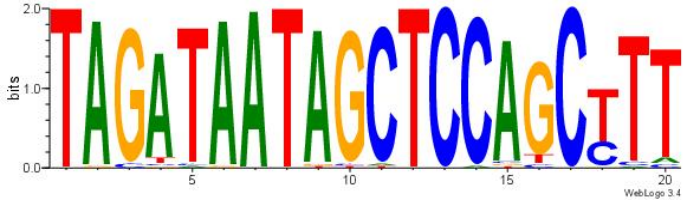

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

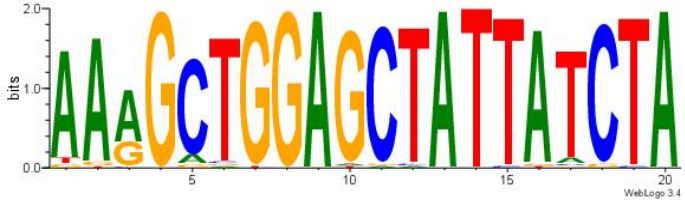

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0676331

Alignment:
CCCAAATCTCATSTTGAAT
------CYTCATCTTC---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

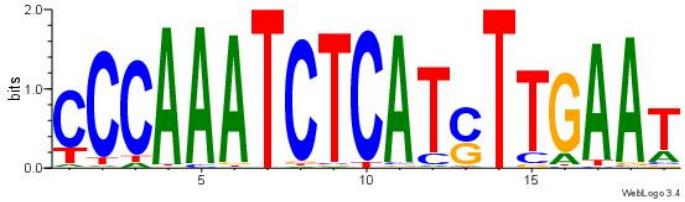

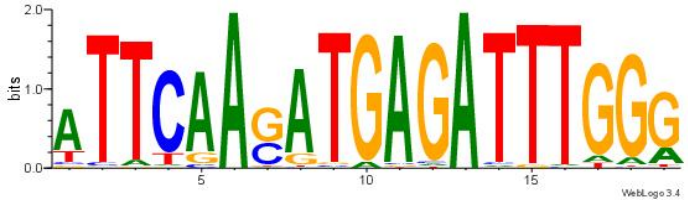

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0692947

Alignment:

```
CTCARGTGATCCTCC
-CYTCATCTTC----
```

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

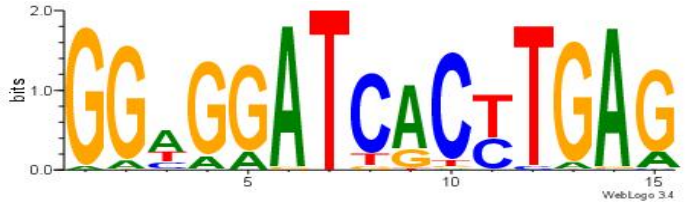

Dataset #:	1
Motif ID:	155

Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0694837

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CYTCATCTTC---------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

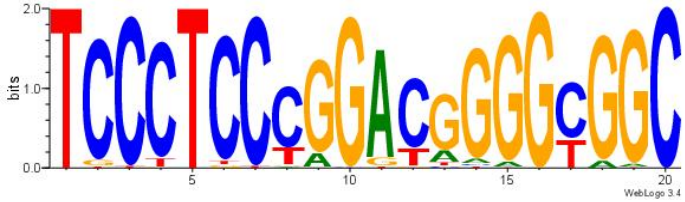

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

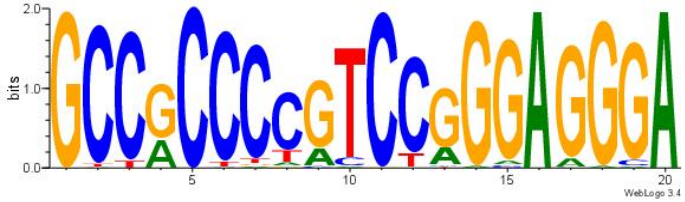

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0694887

Alignment:
GGTCAGGATCATCAATAT
---CYTCATCTTC-----

Original motif Consensus sequence: ATATTGATGATCCTGACC

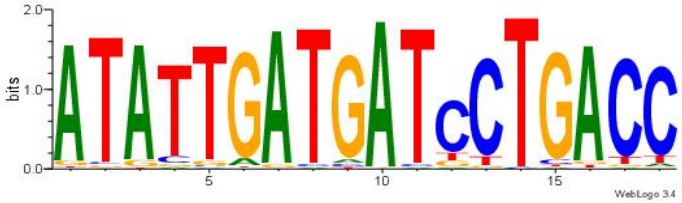

Reverse complement motif Consensus sequence:
GGTCAGGATCATCAATAT

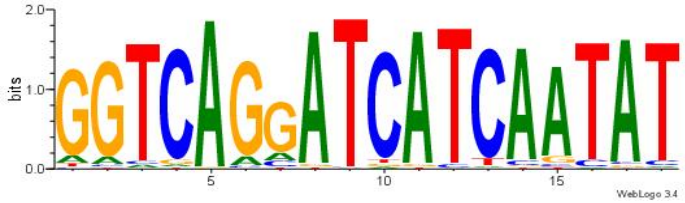

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0695071

Alignment:
GACAGGAGATTAACACTGAG
----GAAGATGAMG------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

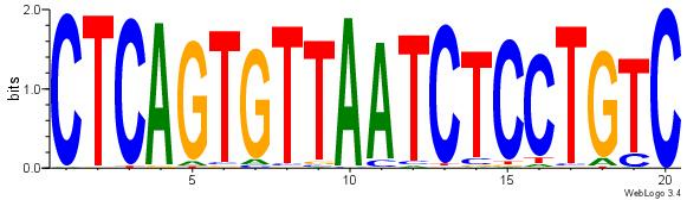

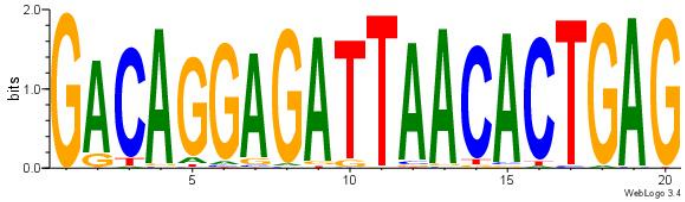

Dataset #:	1
Motif ID:	219
Motif name:	Motif 219
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0695404

Alignment:

```
CTGCAGCCTC
CYTCATCTTC
```

Original motif Consensus sequence: CTGCAGCCTC

Reverse complement motif Consensus sequence: GAGGCTGCAG

Dataset #:	1
Motif ID:	217

Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0704681

Alignment:

```
CCCTACTGTTCTCY
-CYTCATCTTC---
```

Original motif Consensus sequence: CCCTACTGTTCTCY

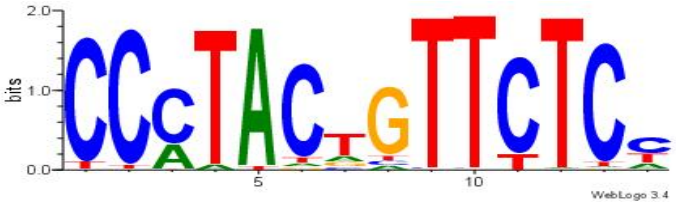

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.070768

Alignment:
CTCCTGCCTCAGCY
---CYTCATCTTC-

Original motif Consensus sequence: CTCCTGCCTCAGCY

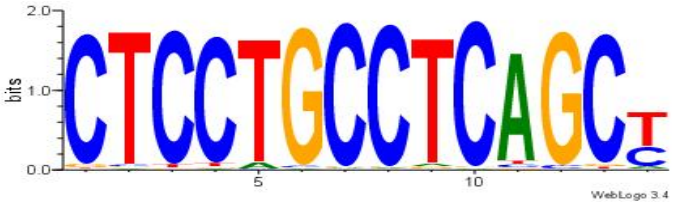

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

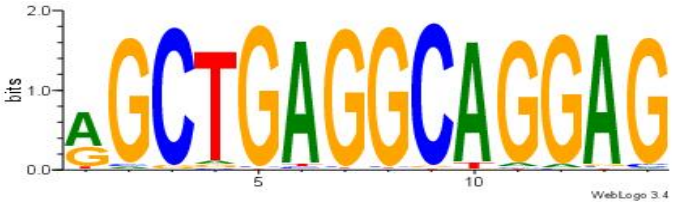

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0710858

Alignment:
GCCGGGRAGAGGCGCTCCT
----GAAGATGAMG-----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

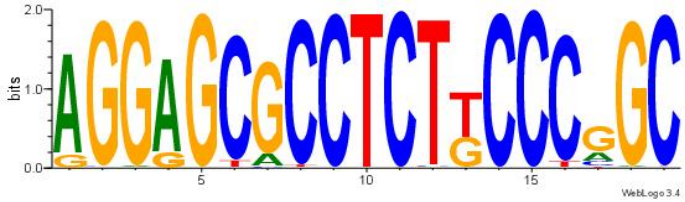

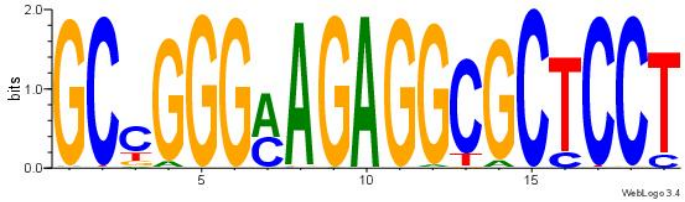

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.071578

Alignment:

```
CGGCTTCATTCTTGAAGTC
---CYTCATCTTC------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

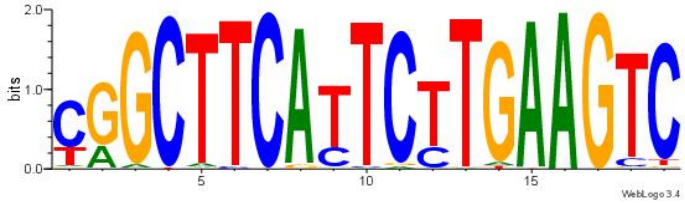

Dataset #: 1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0719294

Alignment:

```
CGCCCATCGTCTGGGATGT
-CYTCATCTTC--------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

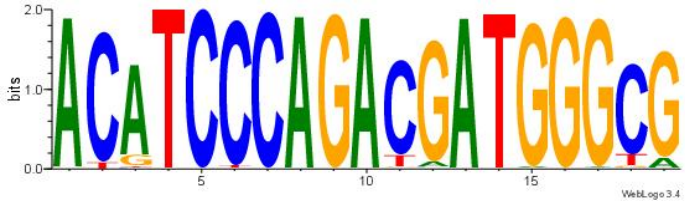

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

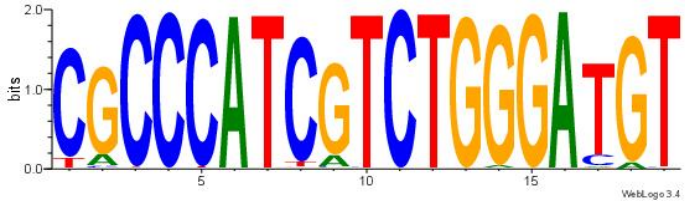

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0720917

Alignment:
TGGAGGTTSTAG
GAAGATGAMG--

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

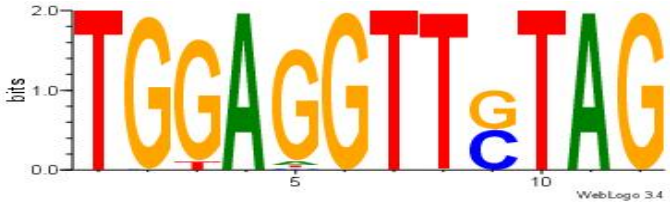

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0721263

Alignment:
GGAGCCGGCTCCCTCAGCTT
--------CYTCATCTTC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

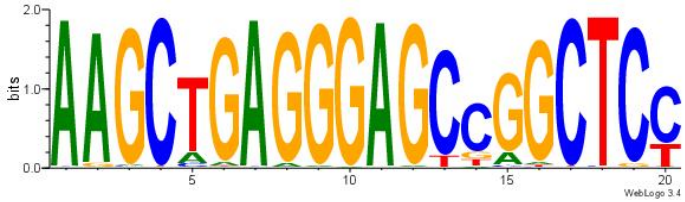

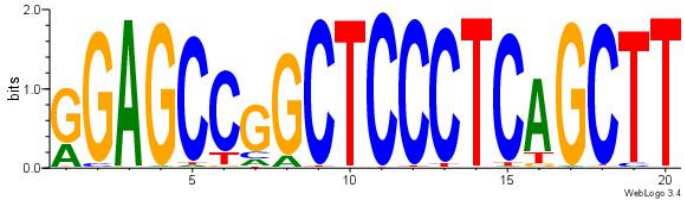

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0725489

Alignment:

```
ATGGAATAYTATTCAGCCAT
---GAAGATGAMG-------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

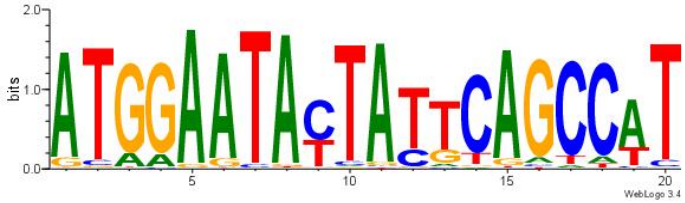

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

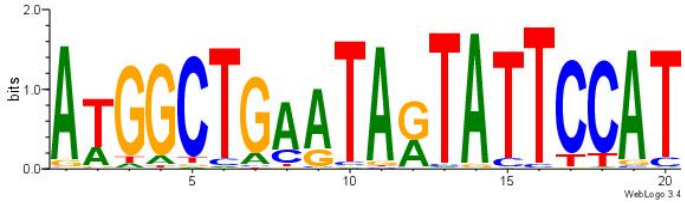

Dataset #:	1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0731648

Alignment:

```
TACACCCTCCGCAGCC
-----CYTCATCTTC-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

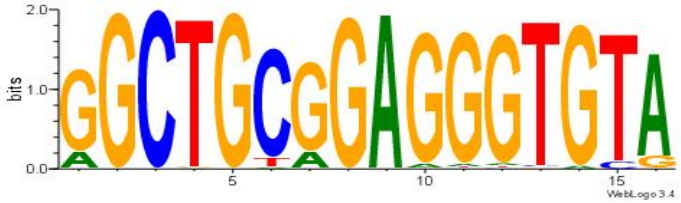

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

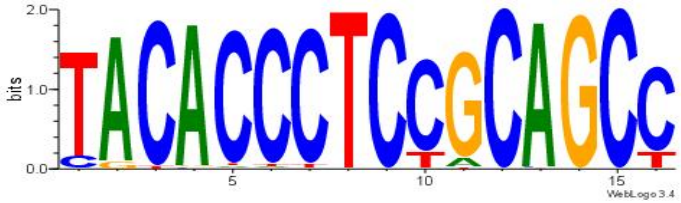

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0734635

Alignment:
GAGSTTGCAGTGAGC
-----GAAGATGAMG

Original motif Consensus sequence: GCTCACTGCAASCTC

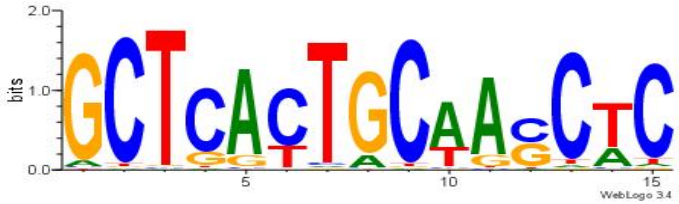

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

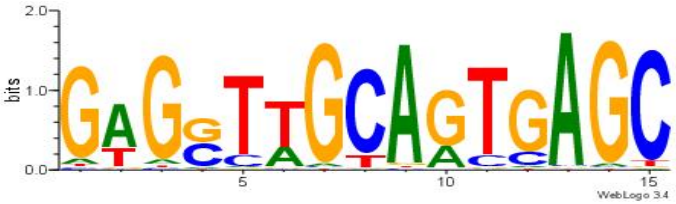

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0739556

Alignment:
GGCTGAGGAGTGCG
---GAAGATGAMG-

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTG

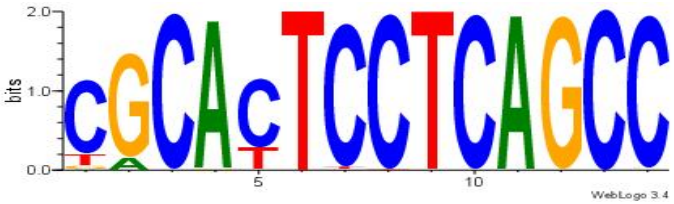

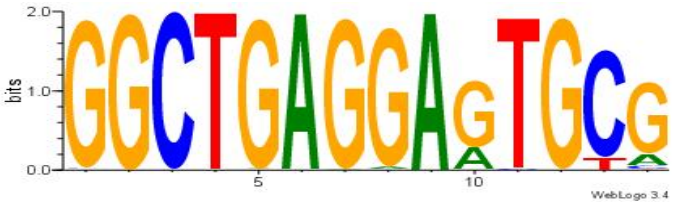

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0744258

Alignment:

```
TGCTGCTGCTGC
--CYTCATCTTC
```

Original motif Consensus sequence: GCAGCAGCAGCA

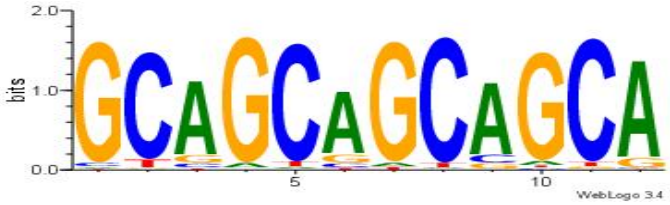

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

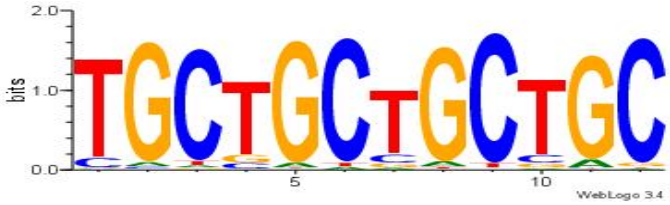

Dataset #:	1
Motif ID:	133

Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0749409

Alignment:

```
TGGGGACMCAG
GAAGATGAMG-
```

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

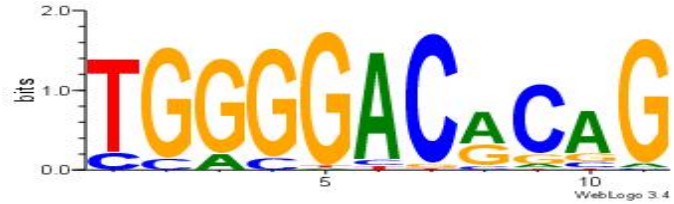

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0752241

Alignment:
GACCAMGAACCCA
GAAGATGAMG---

Original motif Consensus sequence: GACCAMGAACCCA

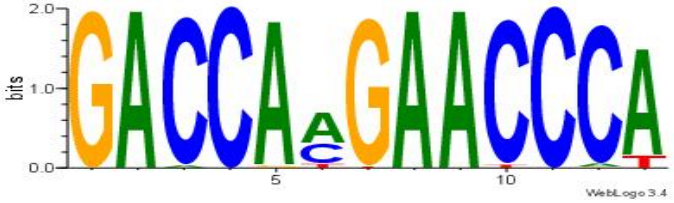

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

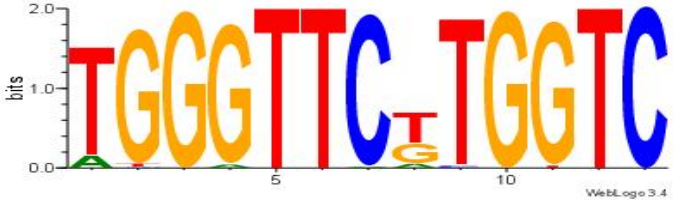

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0762295

Alignment:
GTCTTTATCAGC
--CYTCATCTTC

Original motif Consensus sequence: GCTGATAAAGAC

Reverse complement motif Consensus sequence: GTCTTTATCAGC

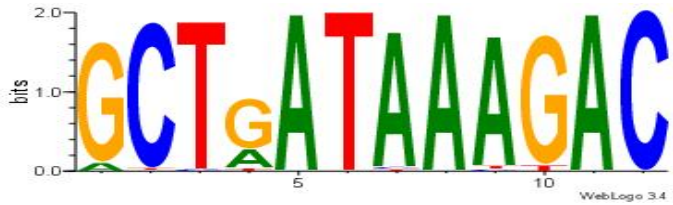

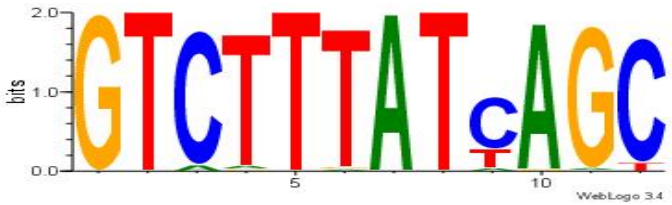

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0768235

Alignment:

```
GGTTCATCTCACTAGGGAGT
---------CYTCATCTTC-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

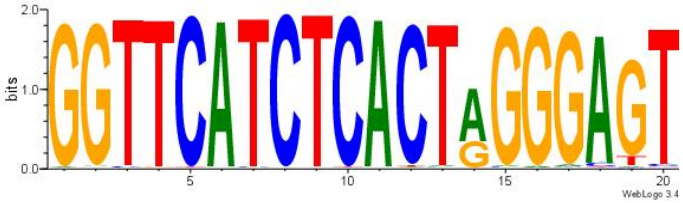

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

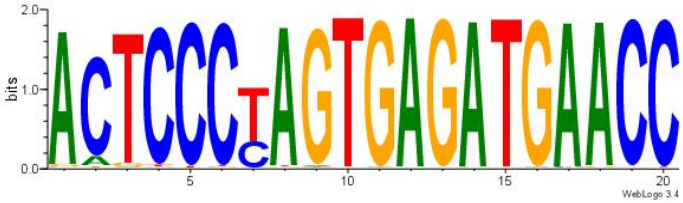

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0769695

Alignment:

```
GCAAAKGACATGATYTCATT
GAAGATGAMG----------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

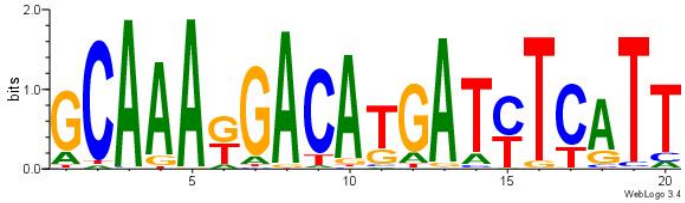

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

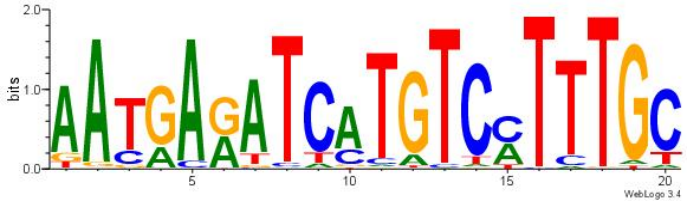

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0775926

Alignment:
GMTTAGCTCCCACTTA
------CYTCATCTTC

Original motif Consensus sequence: TAAGTGGGAGCTAARC

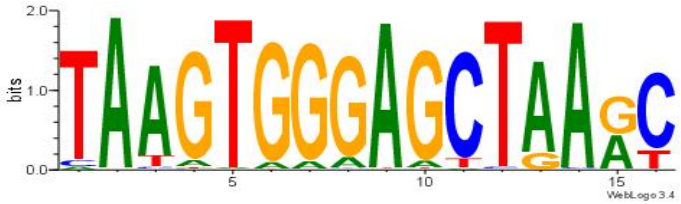

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

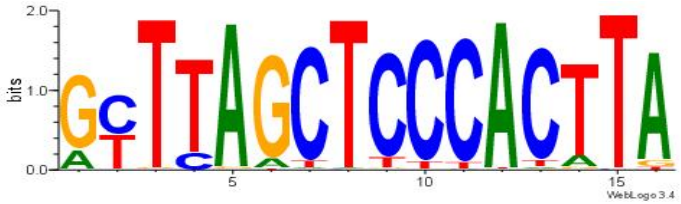

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.077669

Alignment:
CTTGGGTGGTCGATGGGAC
----GAAGATGAMG-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

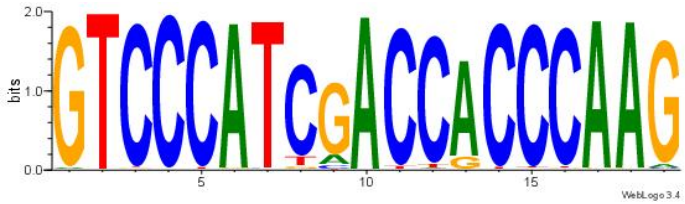

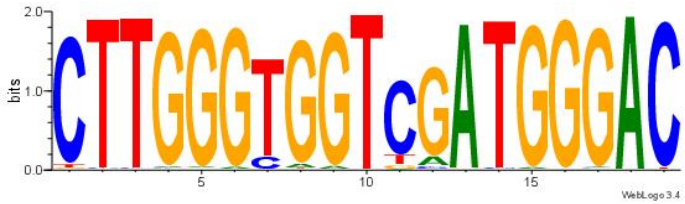

Dataset #:	1
Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0778626

Alignment:

```
GAGAACGTAG
GAAGATGAMG
```

Original motif Consensus sequence: CTACGTTCTC

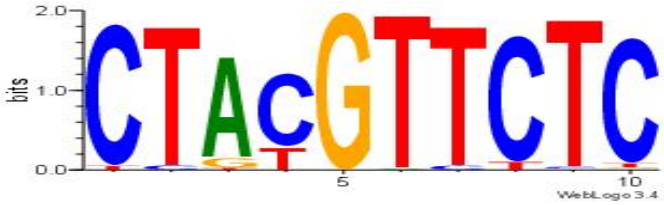

Reverse complement motif Consensus sequence: GAGAACGTAG

Dataset #:	1
Motif ID:	129

Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.077863

Alignment:

```
TGAGKCAATTAAACCTCTT
-------CYTCATCTTC--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

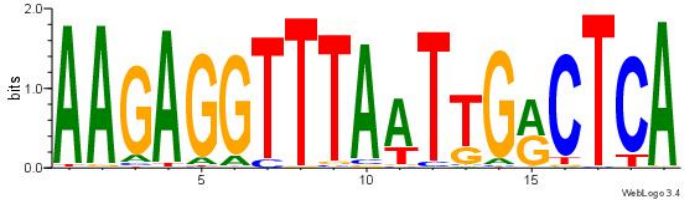

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

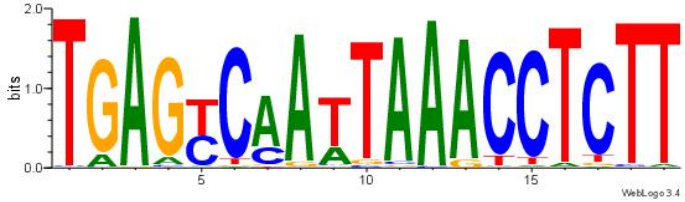

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.077877

Alignment:
AATTAAAAGACACAGACTG
-----GAAGATGAMG----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

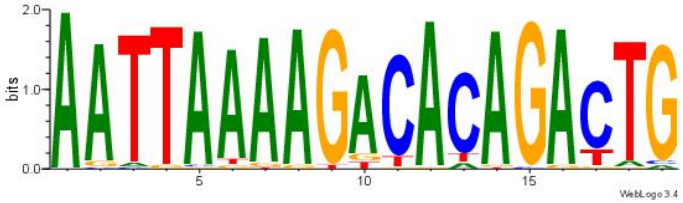

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

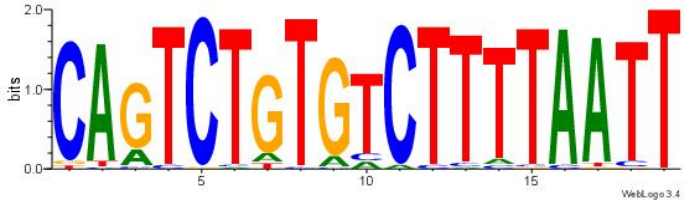

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0779132

Alignment:
CAAGTTGACACATAAAATTA
GAAGATGAMG----------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

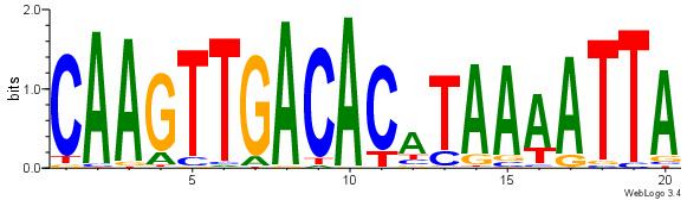

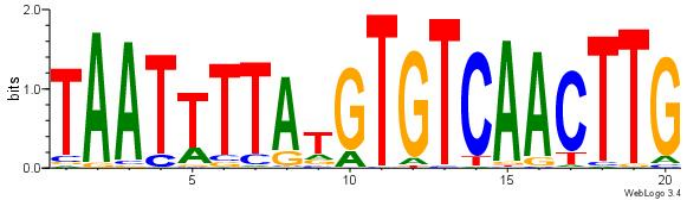

Dataset #: 1 Motif ID: 186 Motif name: Motif 186

Original motif Consensus sequence: AAATATTT

Reverse complement motif Consensus sequence: AAATATTT

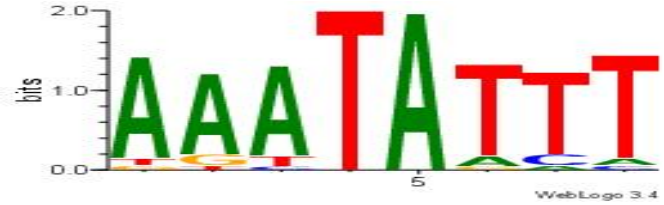

Best Matches for Motif ID 186 (Highest to Lowest)

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0174942

Alignment:

```
AATAAATATTT
AAATATTT---
```

Original motif Consensus sequence: AAATATTTATT

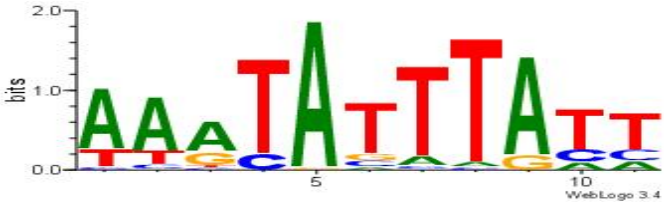

Reverse complement motif Consensus sequence: AATAAATATTT

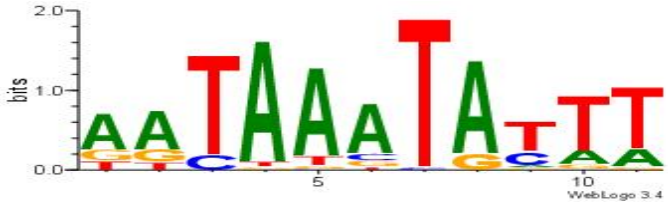

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0532506

Alignment:

```
AGGTATTTCTCCCACC
--------AAATATTT
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

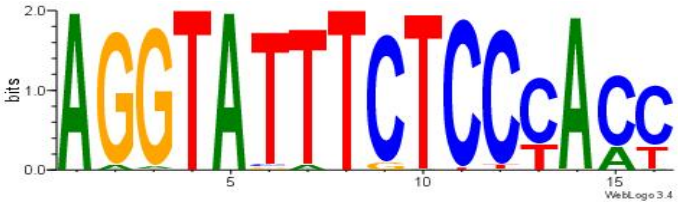

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

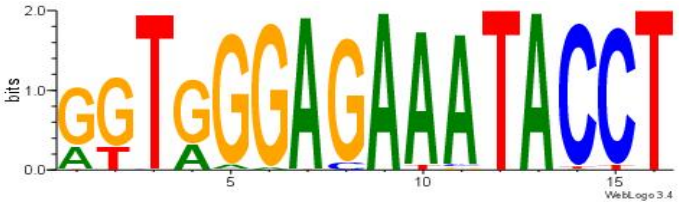

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.055379

Alignment:

```
GCTAATATATCCCTCCC
--AAATATTT-------
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

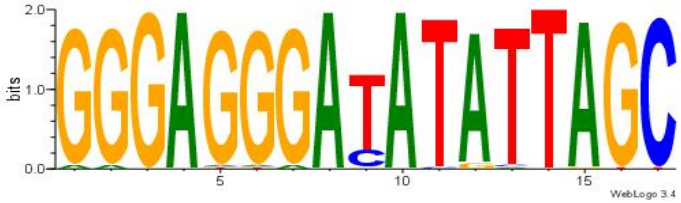

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

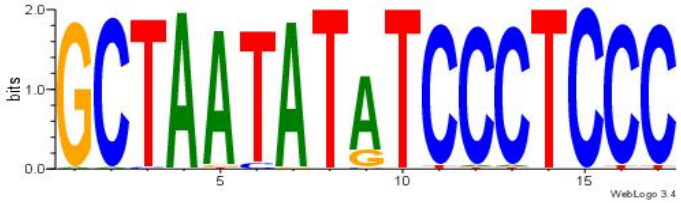

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7

Number of overlap: 8
Similarity score: 0.060748

Alignment:
GAGCTTTAAGATTT
------AAATATTT

Original motif Consensus sequence: AAATCTTAAAGCTC

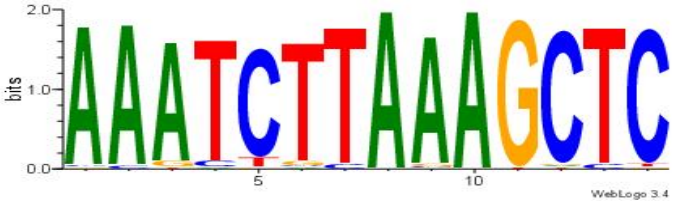

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

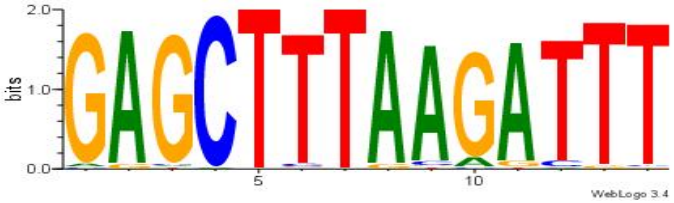

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0630537

Alignment:
AAAACCAGCAAGTTTTTAT
---------AAATATTT--

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

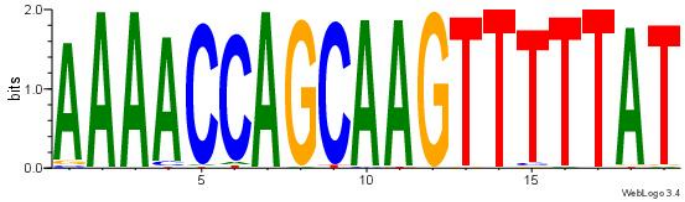

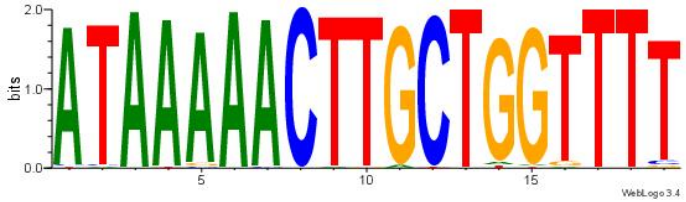

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0680577

Alignment:

```
GCAGCAMTATTCACAATAG
----AAATATTT-------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

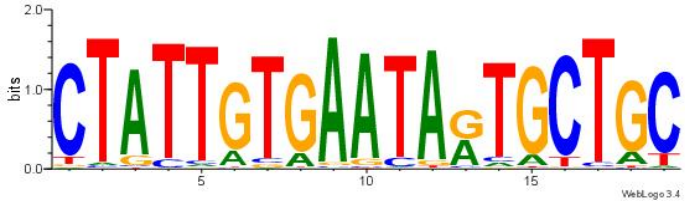

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

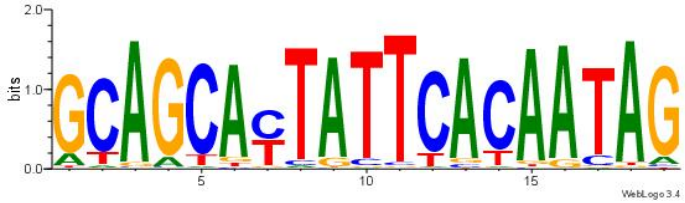

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0694511

Alignment:

```
ATGGAATAYTATTCAGCCAT
---AAATATTT---------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

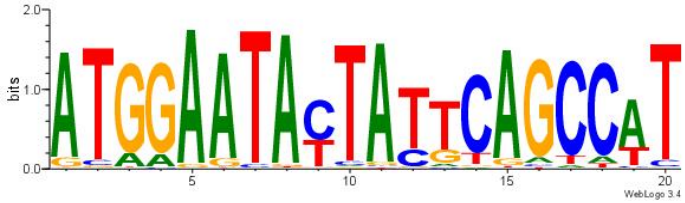

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

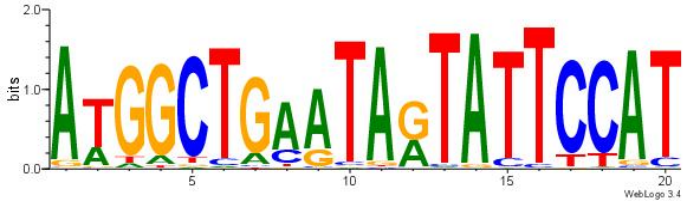

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8

Similarity score: 0.0707206

Alignment:
AGGTCCTTCAGGAGGTATTC
----------AAATATTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

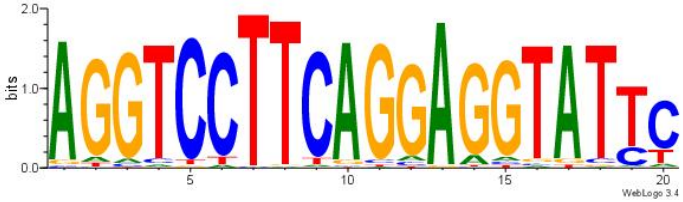

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

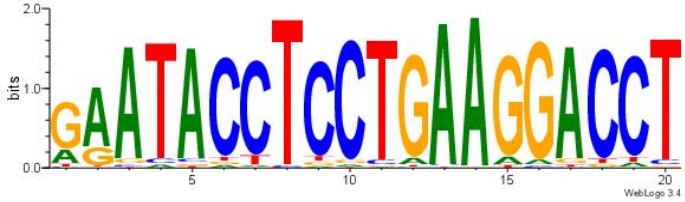

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 8
Similarity score: 0.0732278

Alignment:
TWTACCTATGTAACAAACCT
---AAATATTT---------

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

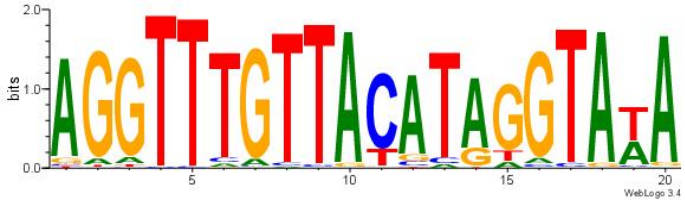

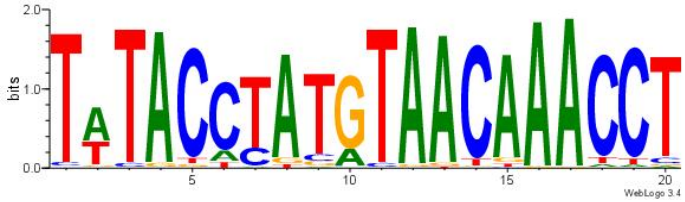

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.074561

Alignment:

```
GTTATTAATTGGCCTAATTT
--AAATATTT----------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

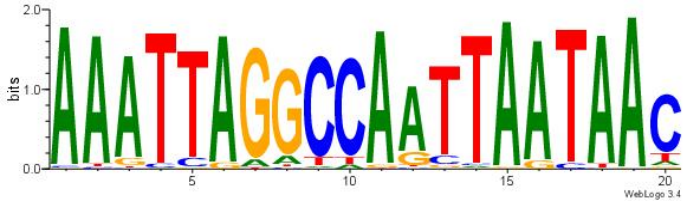

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8
Similarity score:	0.0756443

Alignment:

```
AGTGAGAACATRYRRTRTTT
------------AAATATTT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

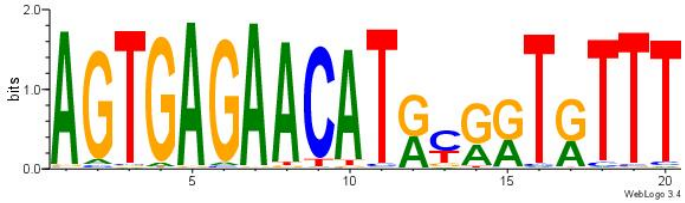

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

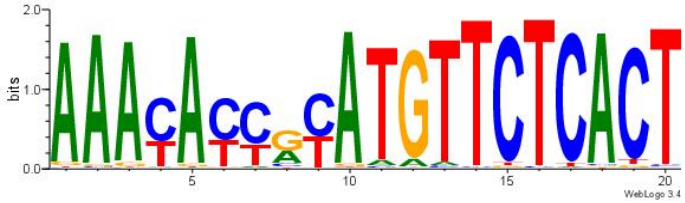

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8

Similarity score: 0.0759902

Alignment:
CCCYAATACTGCGCTTTTC
--------AAATATTT---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

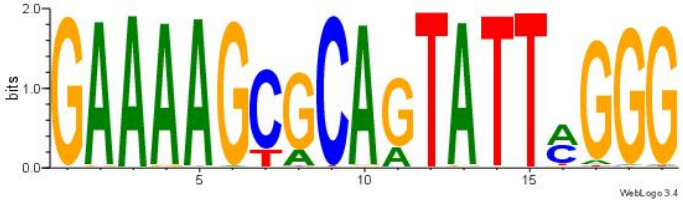

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

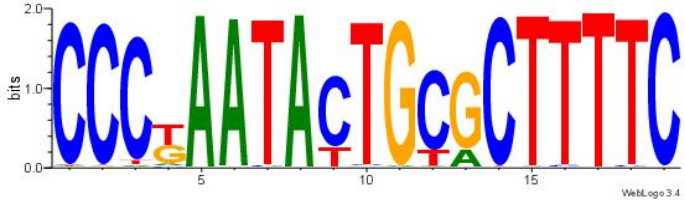

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 8
Similarity score: 0.0761364

Alignment:
GTKTMTATMTACCACATTTT
-AAATATTT----------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

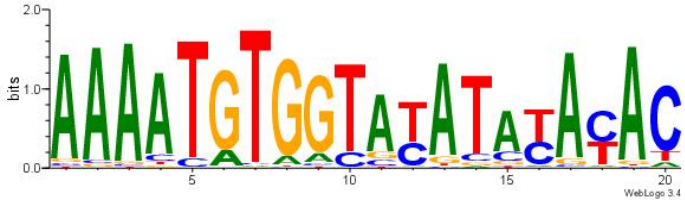

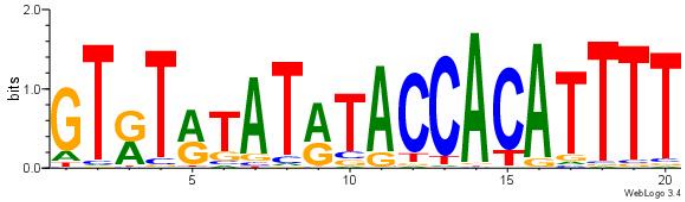

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0763673

Alignment:

```
TAAAAGACTACAWATTGGGT
---------AAATATTT---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

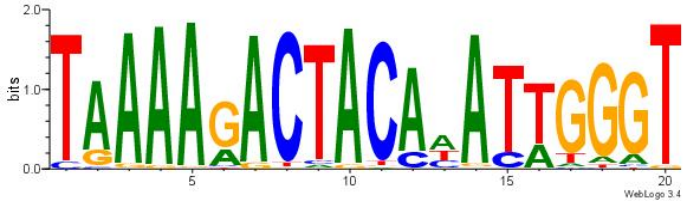

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

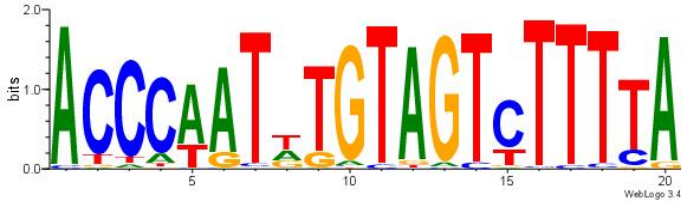

Dataset #:	1

Motif ID:	124
Motif name:	Motif 124
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0773185

Alignment:

```
AAAATAAAA
-AAATATTT
```

Original motif Consensus sequence: AAAATAAAA

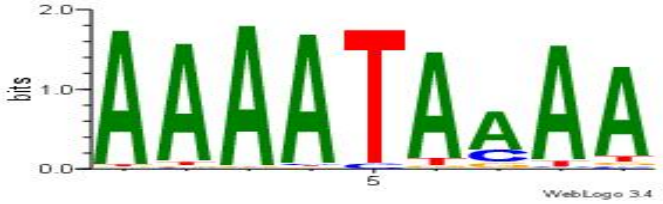

Reverse complement motif Consensus sequence: TTTTATTTT

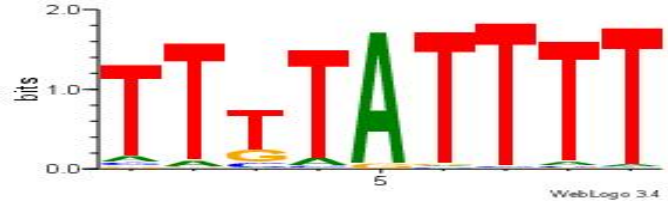

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.077803

Alignment:
ACACATCACAAAGCAGTTTC
----------AAATATTT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

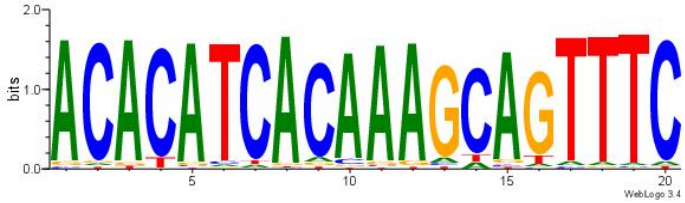

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

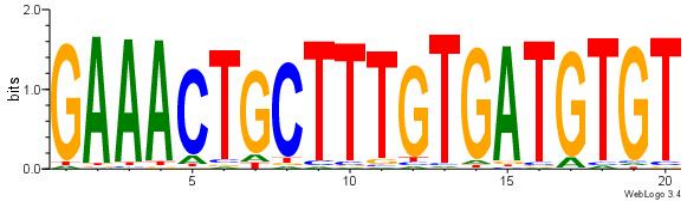

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8
Similarity score:	0.0781646

Alignment:
CAAGTTGACACATAAAATTA
----------AAATATTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

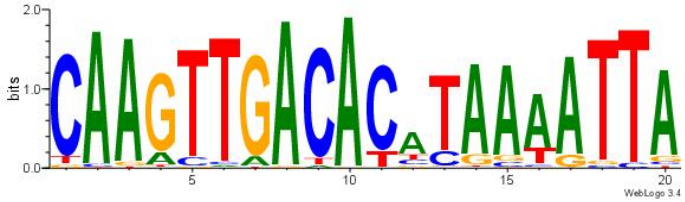

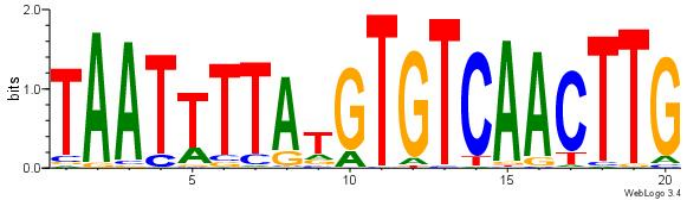

Dataset #:	1
Motif ID:	228
Motif name:	Motif 228
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0782201

Alignment:

```
CAAGTAGCT
-AAATATTT
```

Original motif Consensus sequence: AGCTACTTG

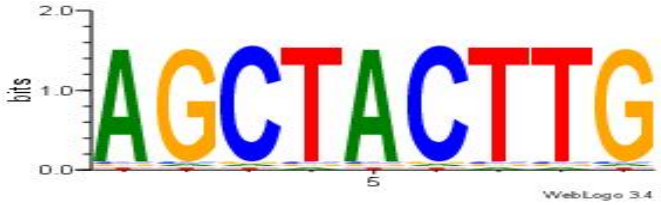

Reverse complement motif Consensus sequence: CAAGTAGCT

Dataset #:	1
Motif ID:	333

Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0786434

Alignment:

```
AAAGCTGGAGCTATTATCTA
-----------AAATATTT-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

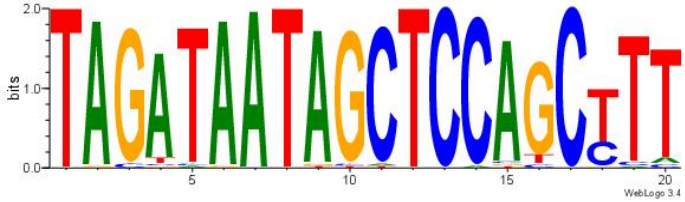

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

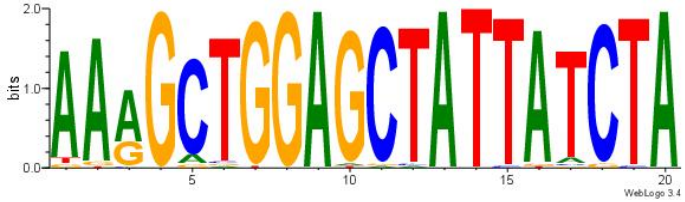

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.079779

Alignment:
CTGGCCCTCAATGGTTAAAC
--------AAATATTT----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

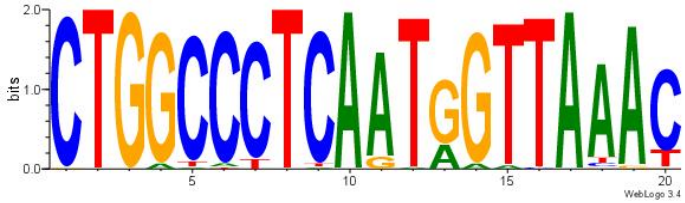

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

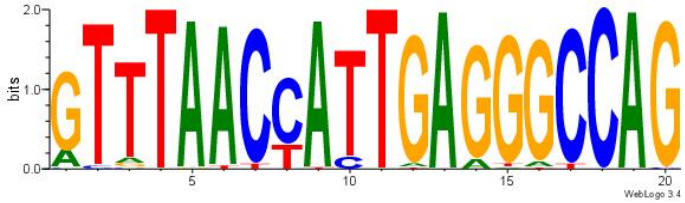

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0807933

Alignment:
GCCAATTTCTCCCATTTGGA
--AAATATTT----------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

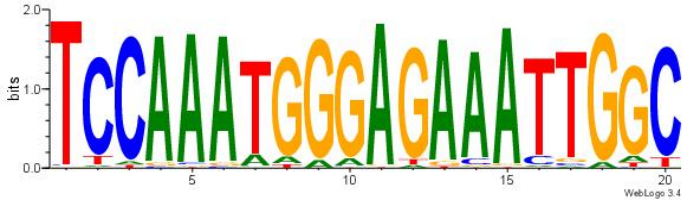

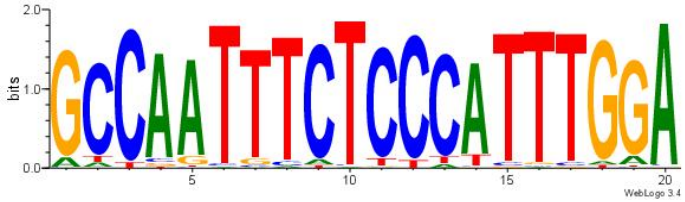

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0811587

Alignment:

```
ACACCTATTCGCACAC
--AAATATTT------
```

Original motif Consensus sequence: ACACCTATTCGCACAC

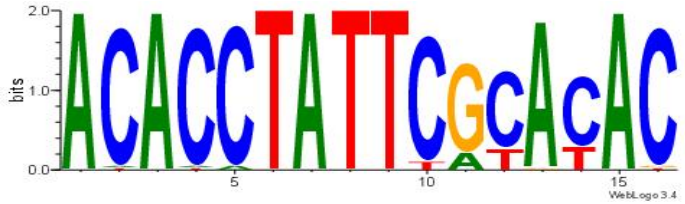

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

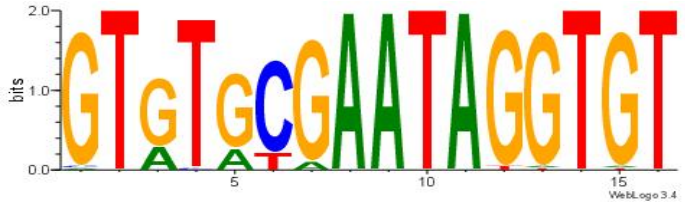

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0815888

Alignment:

```
ATTCAASATGAGATTTGGG
--------AAATATTT---
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

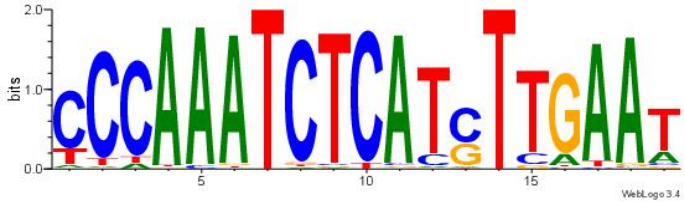

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

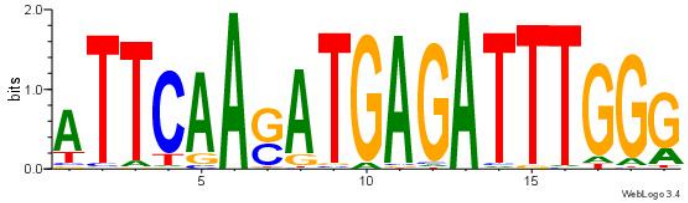

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0817214

Alignment:
AATGAGTTAAGACTTTG
AAATATTT---------

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

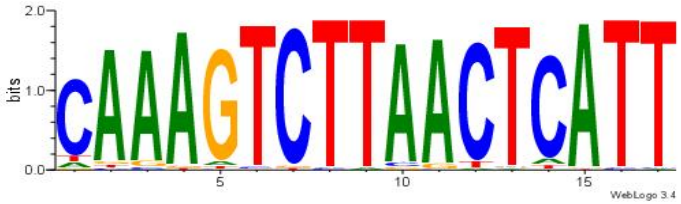

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 8
Similarity score: 0.0818839

Alignment:
CACCAGGAGATTATATCCCR
--------AAATATTT----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

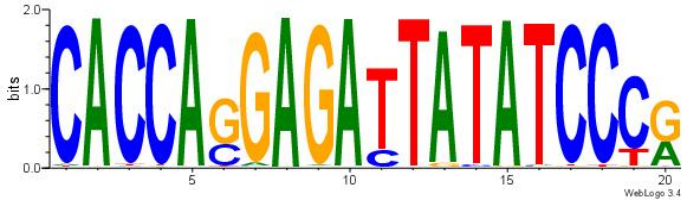

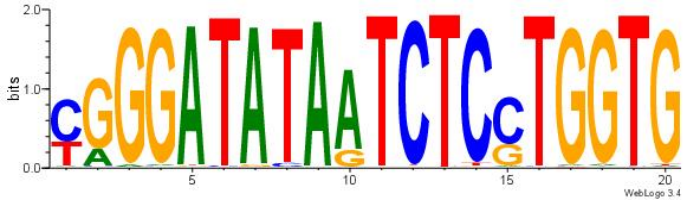

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.082283

Alignment:

```
TTTAACTCTGTGAG
---AAATATTT---
```

Original motif Consensus sequence: CTCACAGAGTTAAA

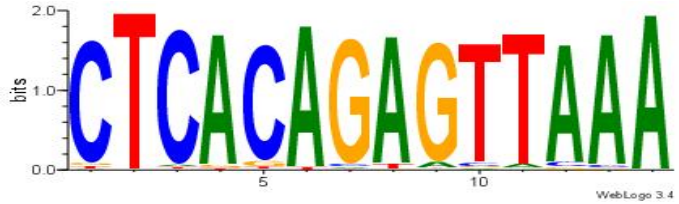

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

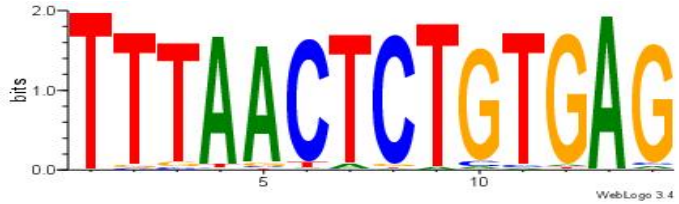

Dataset #:	1
Motif ID:	129

Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.08373

Alignment:

```
AAGAGGTTTAATTGRCTCA
-AAATATTT----------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

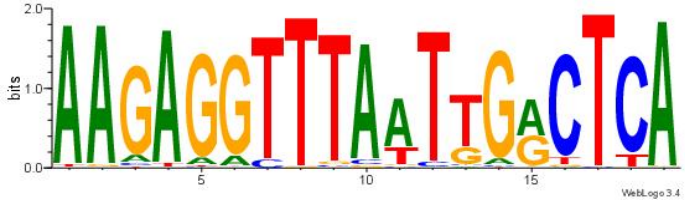

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

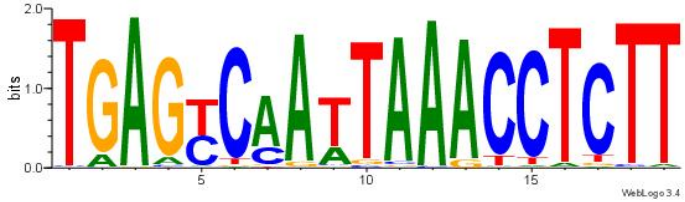

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0844496

Alignment:
AGTTCTTAAAGATGGT
-------AAATATTT-

Original motif Consensus sequence: AGTTCTTAAAGATGGT

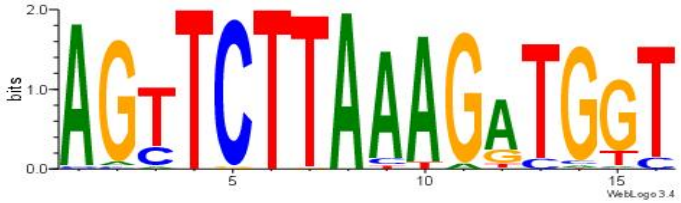

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

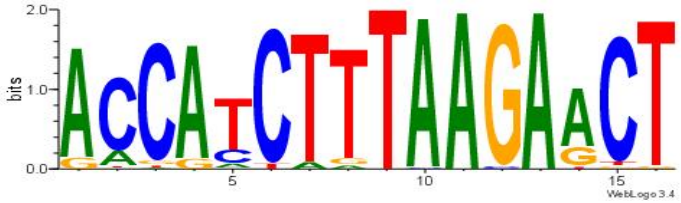

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0853656

Alignment:
AAAATCACAAGCATTCCTAT
--------AAATATTT----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

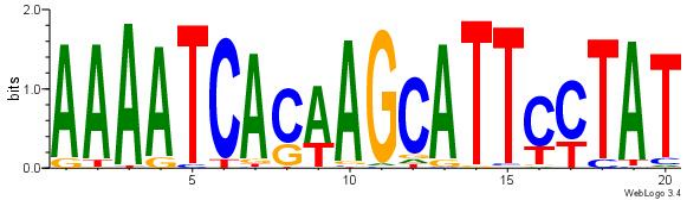

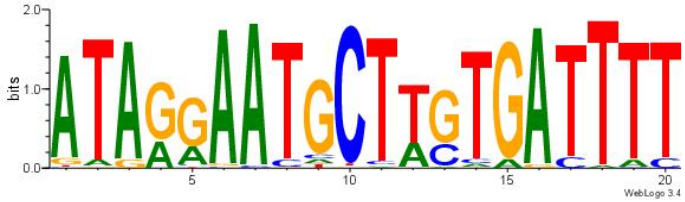

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0854304

Alignment:

```
AATGAKATCATGTCYTTTGC
AAATATTT------------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

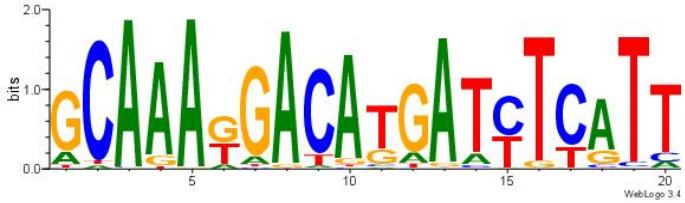

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

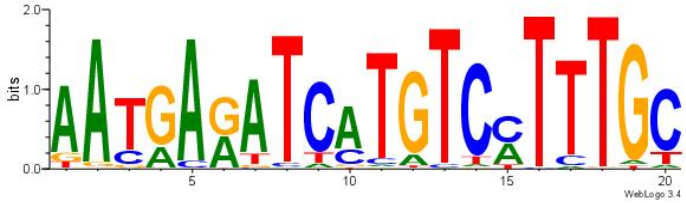

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0855155

Alignment:

```
AGAGCCAAATCATGARTGAA
------AAATATTT------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

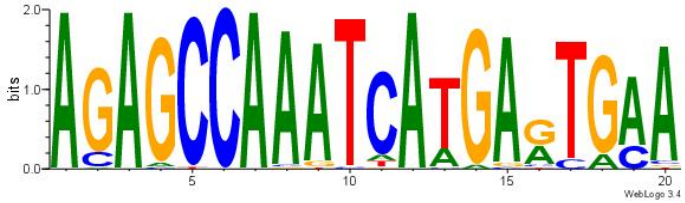

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

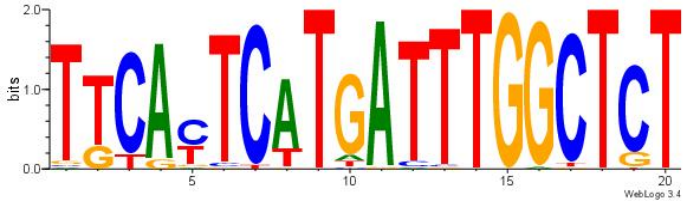

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8

Similarity score: 0.0860301

Alignment:
CCTAGATTTCAGARGATGT
-AAATATTT----------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

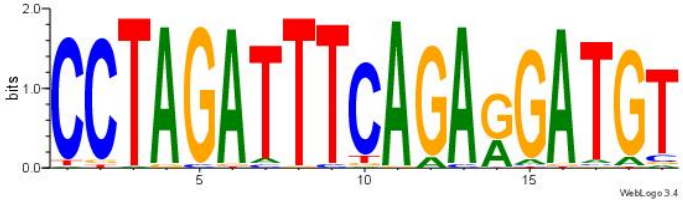

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

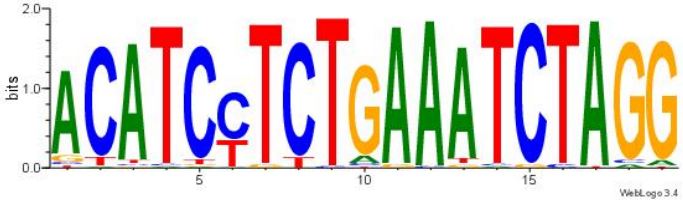

Dataset #: 1
Motif ID: 315
Motif name: Motif 315
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0860811

Alignment:
TGATATGGTTTGG
--AAATATTT---

Original motif Consensus sequence: CCAAACCATATCA

Reverse complement motif Consensus sequence: TGATATGGTTTGG

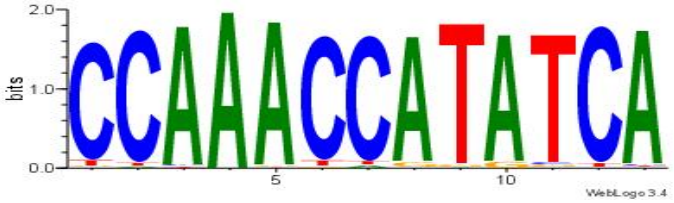

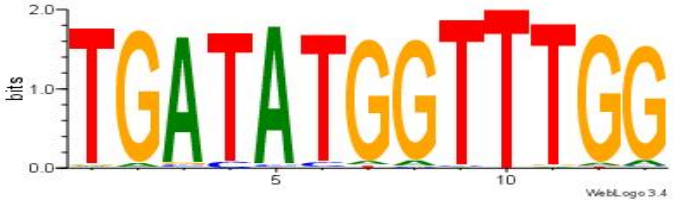

Dataset #:	1
Motif ID:	130
Motif name:	Motif 130
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.086711

Alignment:

```
ATMATAATAAT
-AAATATTT--
```

Original motif Consensus sequence: ATTATTATYAT

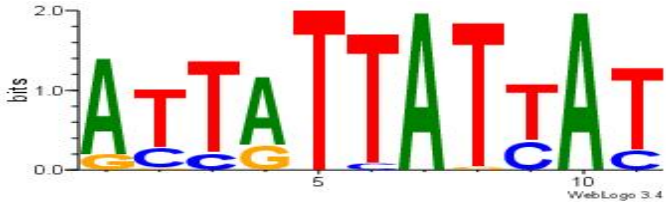

Reverse complement motif Consensus sequence: ATMATAATAAT

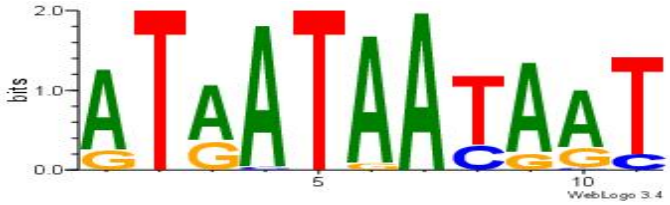

Dataset #:	1
Motif ID:	41

Motif name:	Motif 41
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0867684

Alignment:

```
TTTTTTTMTTT
---AAATATTT
```

Original motif Consensus sequence: AAAYAAAAAAA

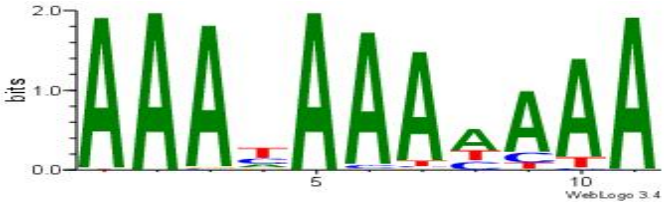

Reverse complement motif Consensus sequence: TTTTTTTMTTT

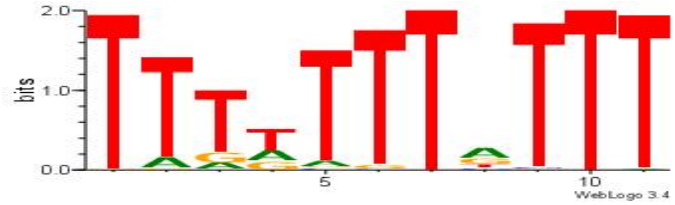

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0871933

Alignment:
KACATTGATTTTGTATC
---AAATATTT------

Original motif Consensus sequence: GATACAAAATCAATGTR

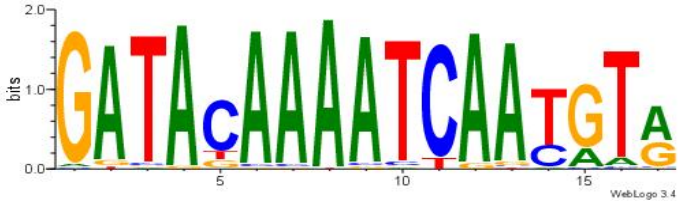

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

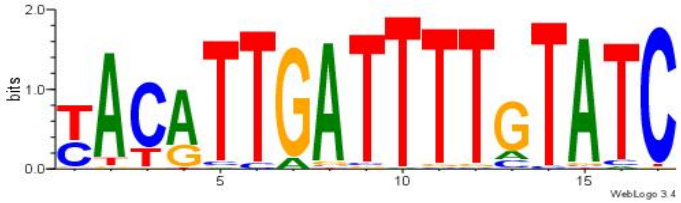

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0875157

Alignment:
TTGTTAAAAACTA
-----AAATATTT

Original motif Consensus sequence: TAGTTTTTAACAA

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

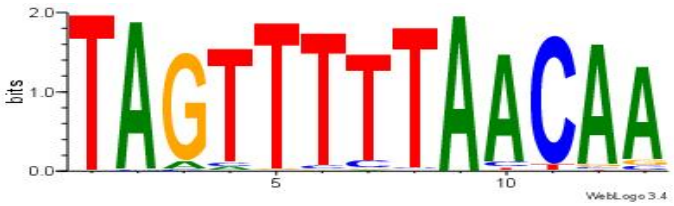

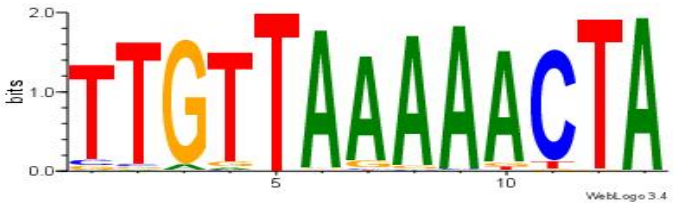

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0879075

Alignment:

```
AATAAACATGG
---AAATATTT
```

Original motif Consensus sequence: AATAAACATGG

Reverse complement motif Consensus sequence: CCATGTTTATT

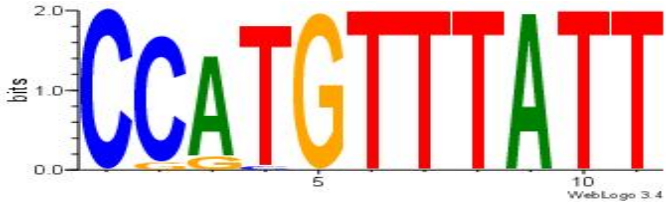

Dataset #:	1
Motif ID:	85

Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0891223

Alignment:

```
CTAGACATAAAGGTTCTCCA
--------AAATATTT----
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

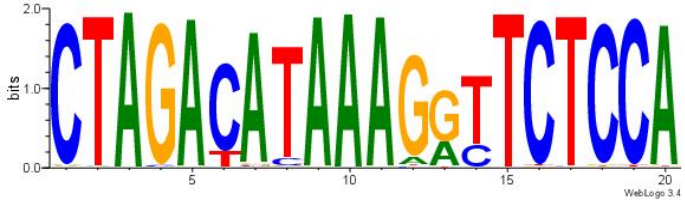

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

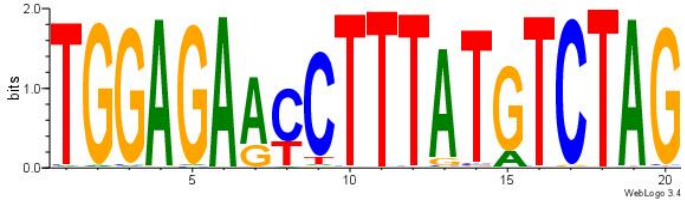

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0891841

Alignment:
TTTTATAGGATTTGGG
---AAATATTT-----

Original motif Consensus sequence: CCCAAATCCTATAAAA

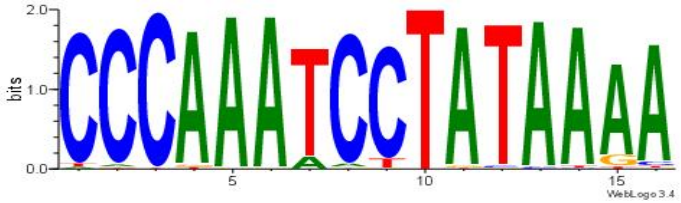

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

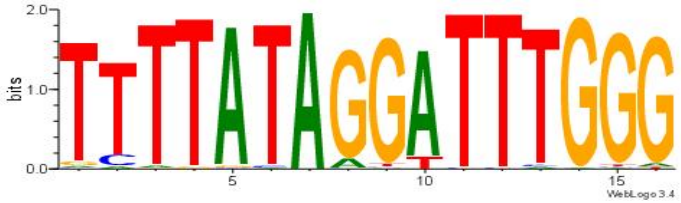

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.089985

Alignment:
GAAHCAACCKAAKTGTCCAT
------AAATATTT------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

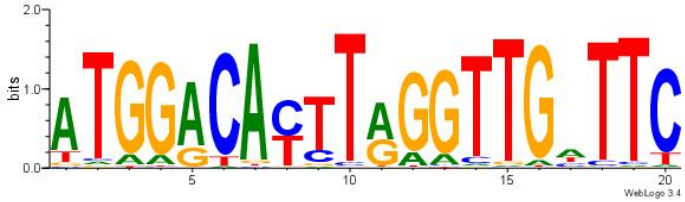

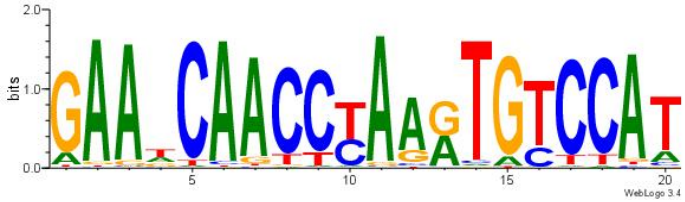

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0914746

Alignment:

```
AAGGGACATTKGAG
---AAATATTT---
```

Original motif Consensus sequence: AAGGGACATTKGAG

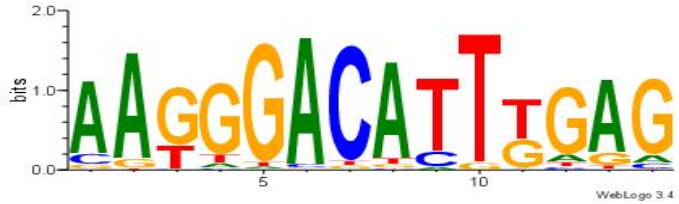

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

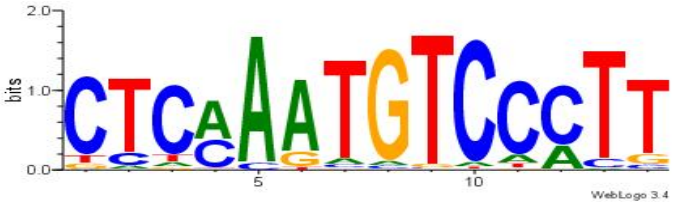

Dataset #:	1
Motif ID:	106

Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0916033

Alignment:

```
GGGATTGTAAATACACCAAT
--------AAATATTT----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

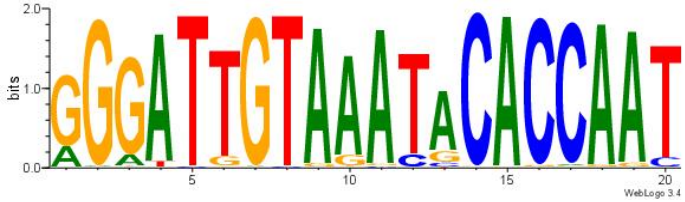

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0929977

Alignment:
TTTYTWTTTTTTYTWGAGAC
----------AAATATTT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

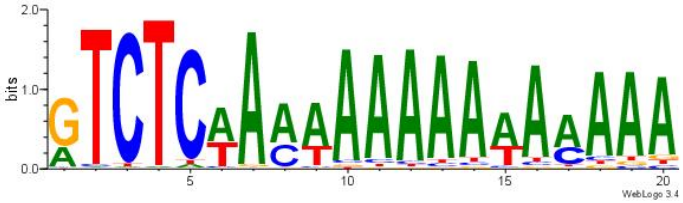

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

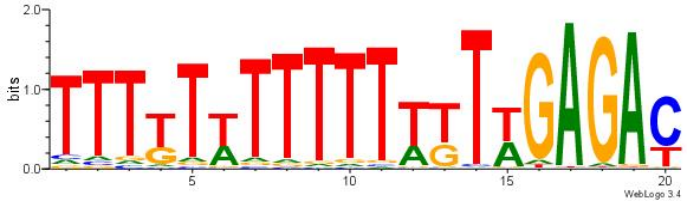

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0933557

Alignment:
GCACATGTAYCCYAGAACTT
--AAATATTT----------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

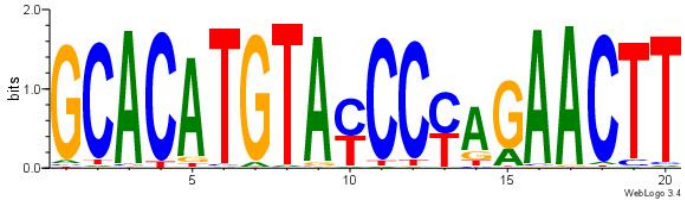

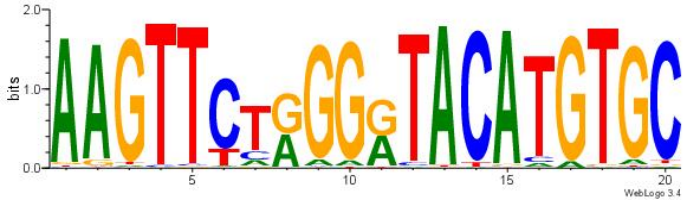

Dataset #:	1
Motif ID:	252
Motif name:	Motif 252
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0937331

Alignment:

```
AATTAGCYRGG
AAATATTT---
```

Original motif Consensus sequence: AATTAGCYRGG

Reverse complement motif Consensus sequence: CCMKGCTAATT

Dataset #:	1
Motif ID:	86

Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0950861

Alignment:

```
AGTAGGTGCTCARTAAATRB
--AAATATTT----------
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

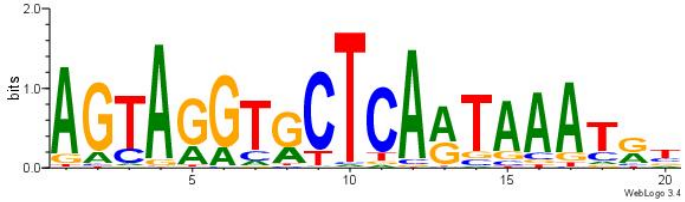

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

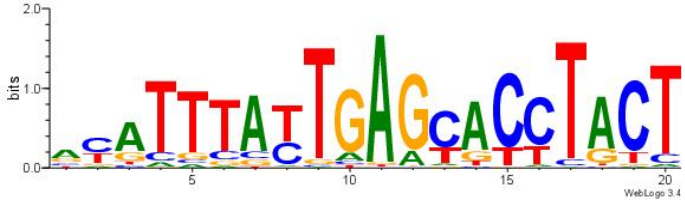

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0952979

Alignment:
CAAASCKGTCATAGGCCAT
-AAATATTT----------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

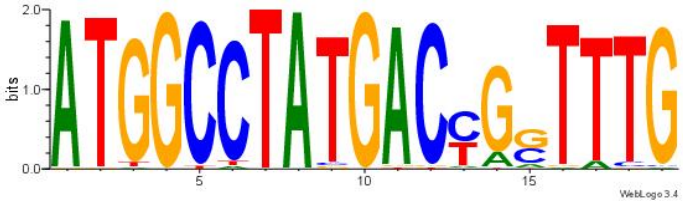

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

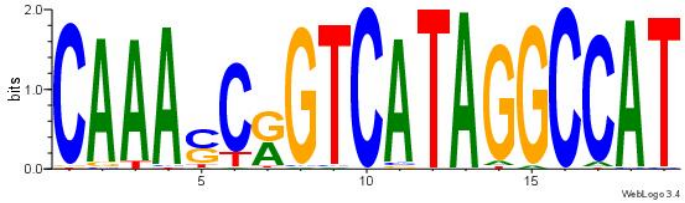

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0957169

Alignment:
GGRRMCAGATGT
----AAATATTT

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

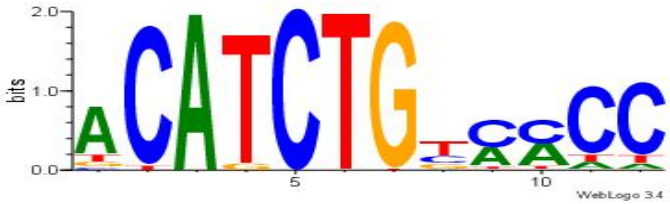

Dataset #:	1
Motif ID:	218
Motif name:	Motif 218
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0964748

Alignment:

```
AAGTWACTT
-AAATATTT
```

Original motif Consensus sequence: AAGTWACTT

Reverse complement motif Consensus sequence: AAGTWACTT

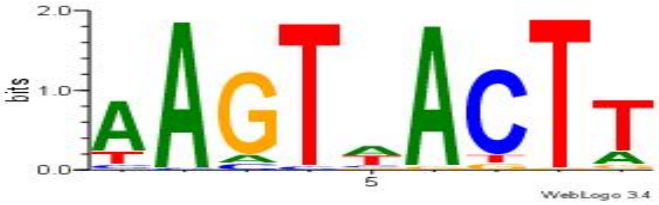

Dataset #: 1 Motif ID: 187 Motif name: Motif 187

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

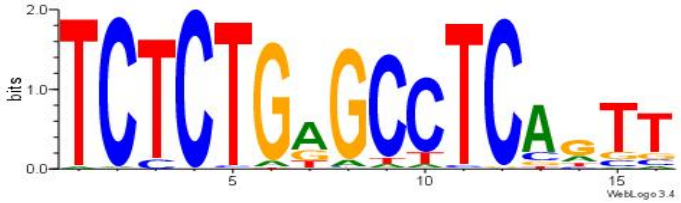

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

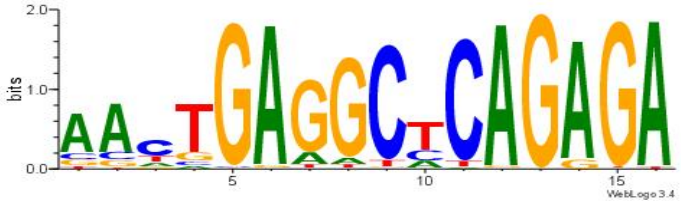

Best Matches for Motif ID 187 (Highest to Lowest)

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0912831

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
-AACTGAGGCTCAGAGA---
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

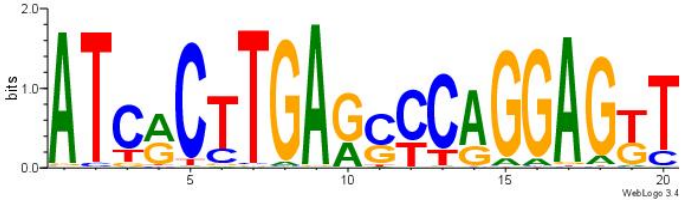

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

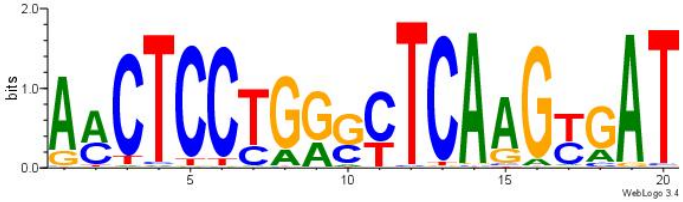

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0936416

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
AACTGAGGCTCAGAGA----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

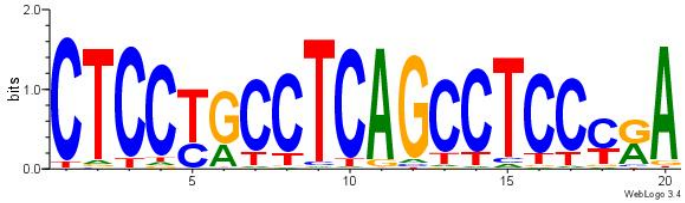

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

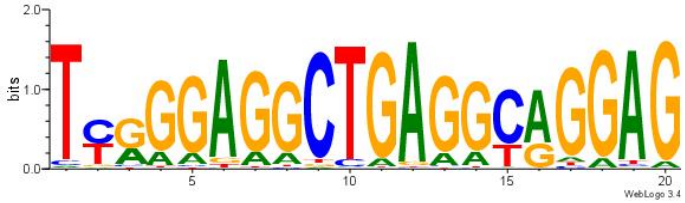

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number: 2
Number of overlap: 16
Similarity score: 0.097136

Alignment:
GTKTMTATMTACCACATTTT
-TCTCTGAGCCTCAGTT---

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

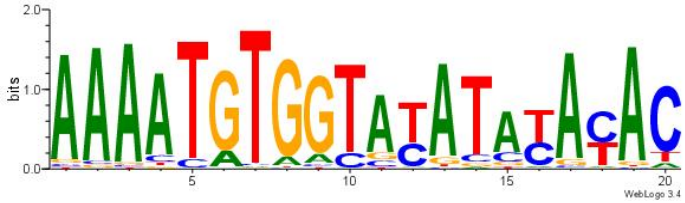

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

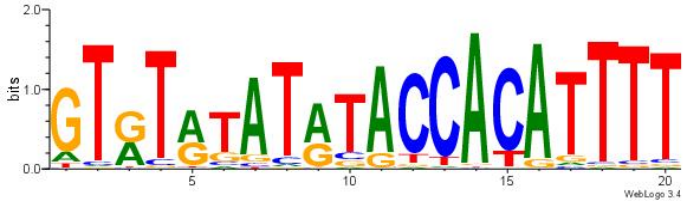

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.0973627

Alignment:
GAGAGAGAGAGAGAGAGAGA
AACTGAGGCTCAGAGA----

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

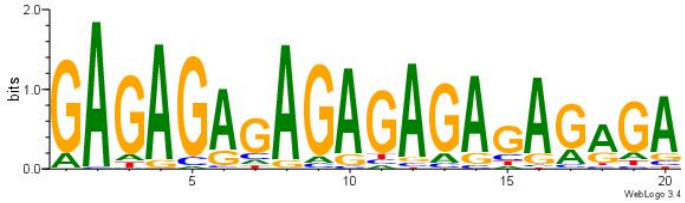

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

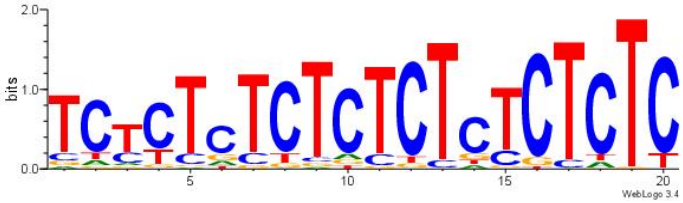

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.09885

Alignment:

```
AAATTACCCAGTCTCAGGTA
AACTGAGGCTCAGAGA----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

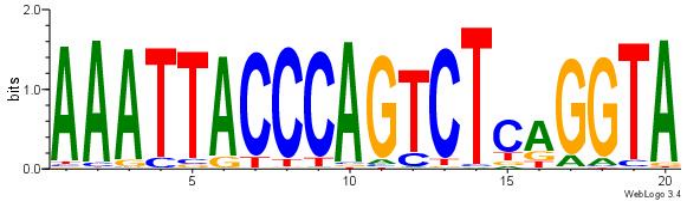

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

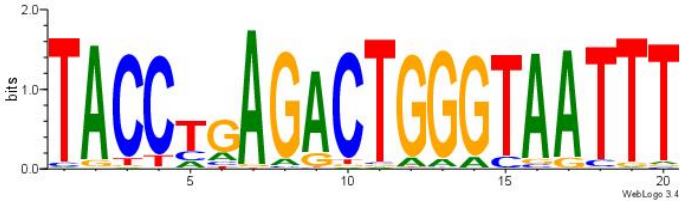

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0991563

Alignment:

```
CAGTCTGTGTCTTTTAATT
---TCTCTGAGCCTCAGTT
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

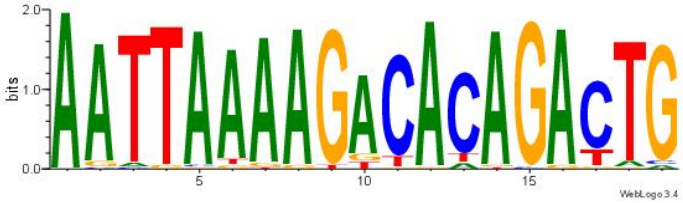

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

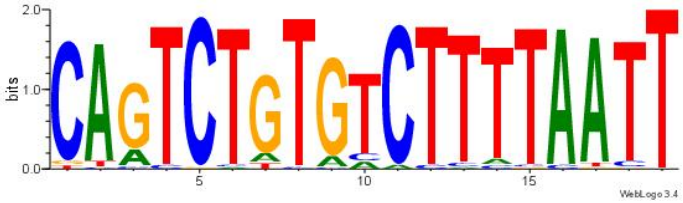

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.101262

Alignment:
CGGCGCTGMGCTCGATTTCT
--TCTCTGAGCCTCAGTT--

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

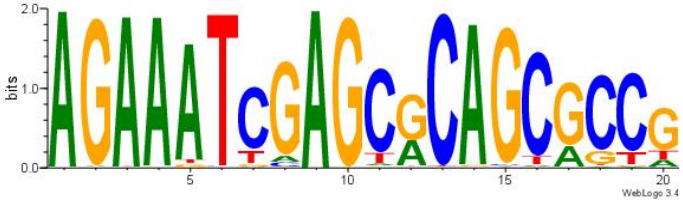

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

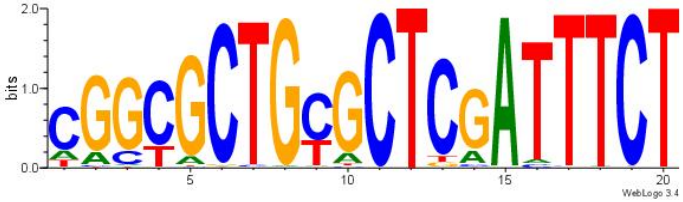

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.102577

Alignment:
GTTATTAATTGGCCTAATTT
----TCTCTGAGCCTCAGTT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

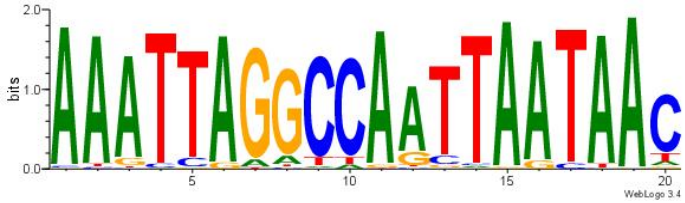

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.102583

Alignment:

```
CATTAGATTCTCATAGGA
-AACTGAGGCTCAGAGA-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

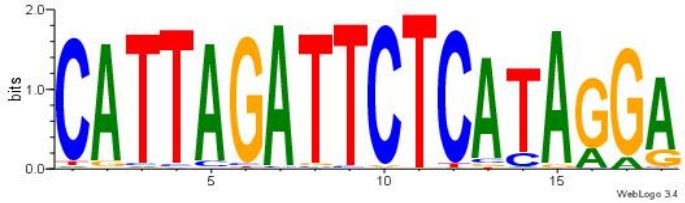

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

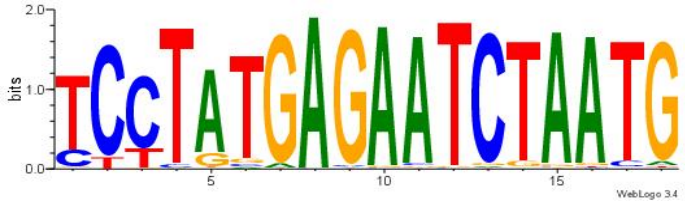

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.104391

Alignment:

```
CCACCACAGCTCAAGGAGGC
-AACTGAGGCTCAGAGA---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

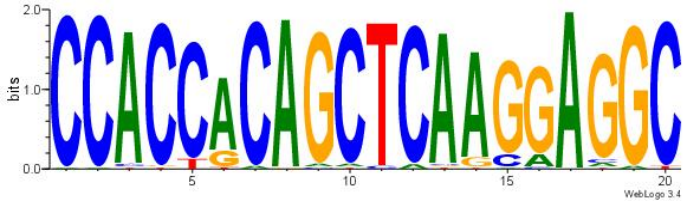

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

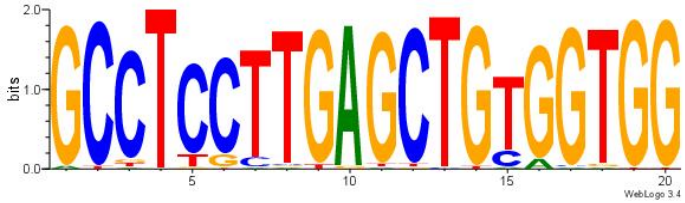

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.105747

Alignment:
AGCTCCCAGCGTGAGCGACG
-TCTCTGAGCCTCAGTT---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

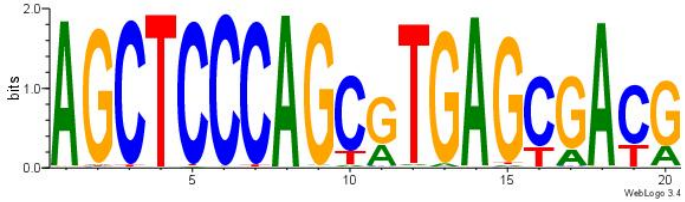

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

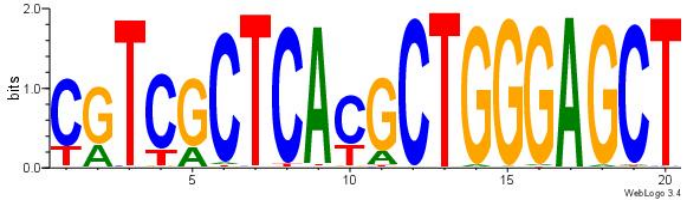

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.106476

Alignment:
GCTGTGTGACCTTGGGCAAG
--TCTCTGAGCCTCAGTT--

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

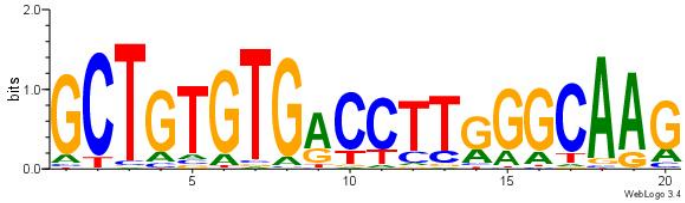

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

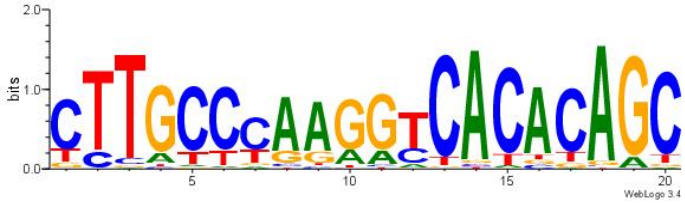

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.10813

Alignment:

```
CTGACTGGGAGACACCTCCC
-TCTCTGAGCCTCAGTT---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

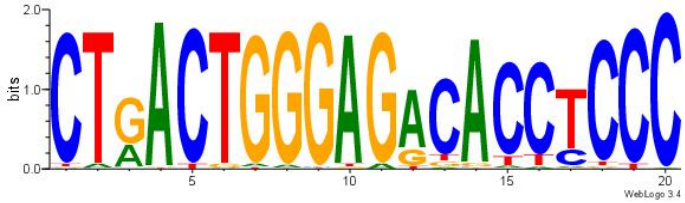

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

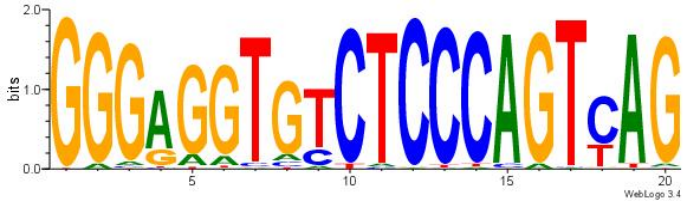

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.108164

Alignment:

```
VMATTTAKTGAGCACCTACT
TCTCTGAGCCTCAGTT----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

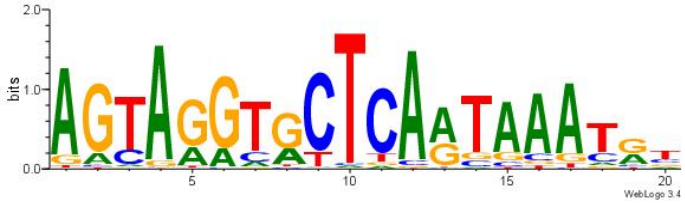

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

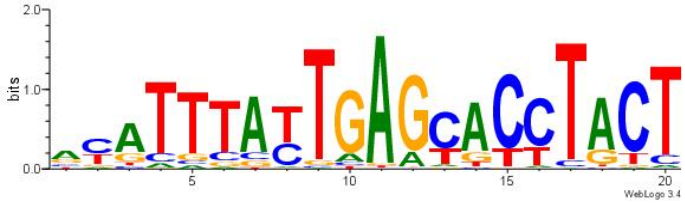

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.112127

Alignment:
GTTGTGAGGATTAAATGAG
-AACTGAGGCTCAGAGA--

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

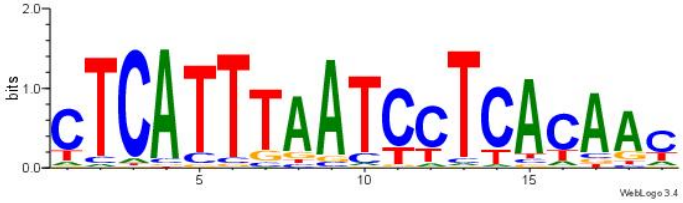

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

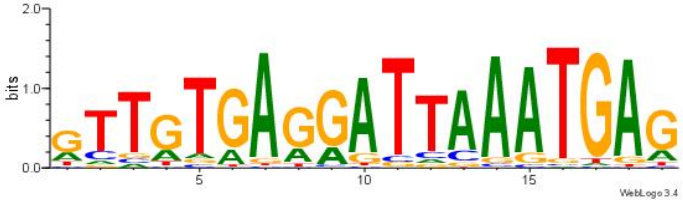

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.112244

Alignment:
AGAGCTCTGGCTGGCATCT
---TCTCTGAGCCTCAGTT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

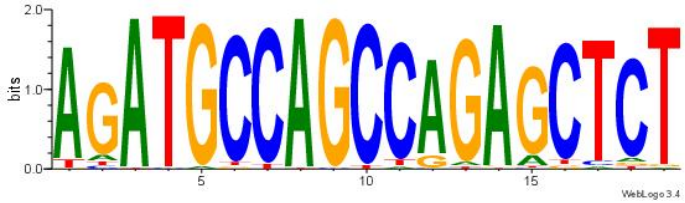

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

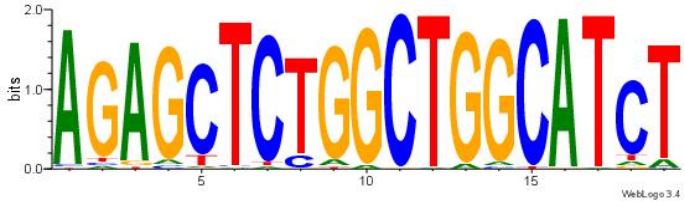

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.112657

Alignment:

```
CCCMKGGCACCCTCAGTCCT
--TCTCTGAGCCTCAGTT--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

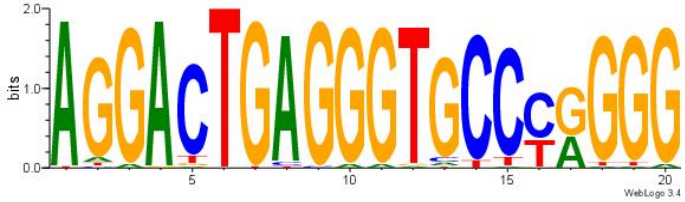

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

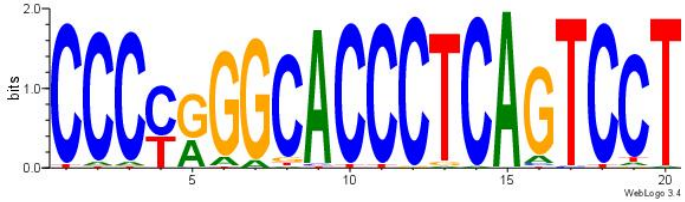

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.112822

Alignment:

```
ACACACAYACACACACACA
--AACTGAGGCTCAGAGA-
```

Original motif Consensus sequence: ACACACAYACACACACACA

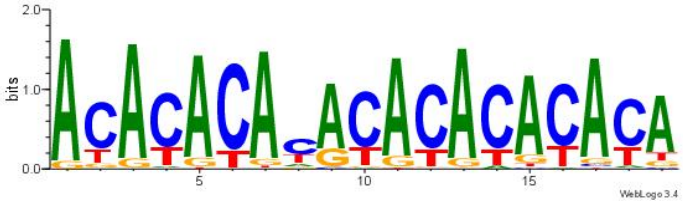

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

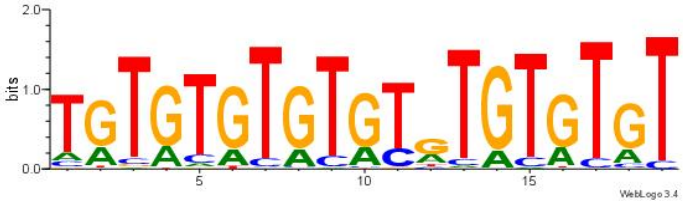

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.113612

Alignment:
ACTGTCTTCCACCTCCACAT
----TCTCTGAGCCTCAGTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

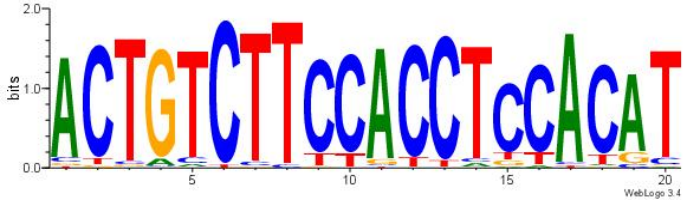

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

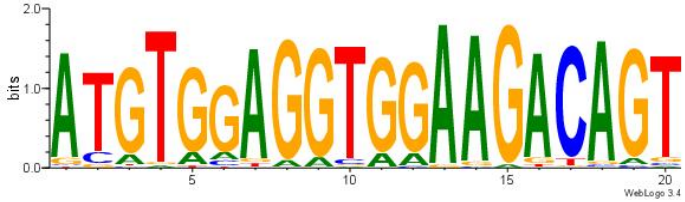

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.113864

Alignment:
GTGCCAGGCACTGTKCTARG
-TCTCTGAGCCTCAGTT---

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

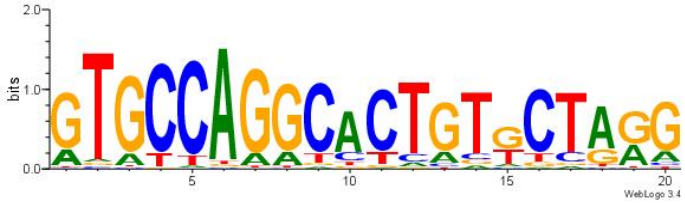

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

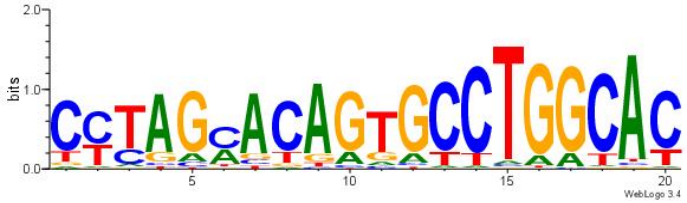

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.114547

Alignment:

```
TTGGTAGGATCCGTGATGCC
AACTGAGGCTCAGAGA----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

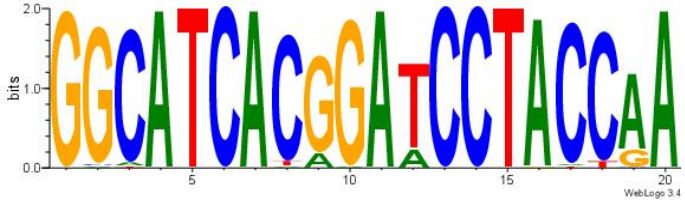

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

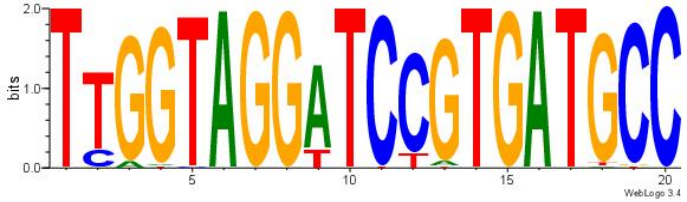

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.114978

Alignment:

```
AGCCYCTGGYAACCAYYAWT
----TCTCTGAGCCTCAGTT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

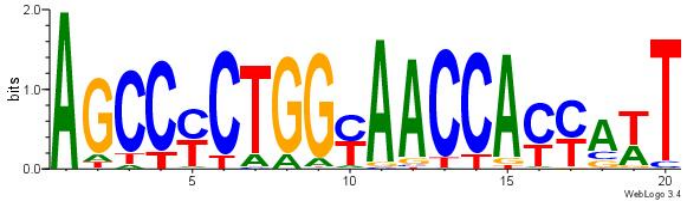

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

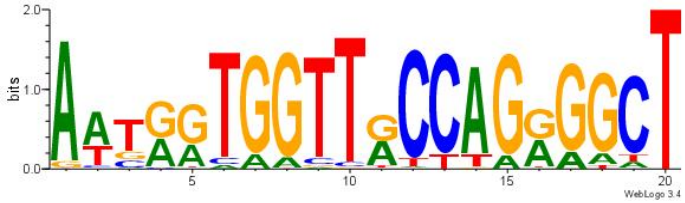

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.115722

Alignment:
TCAATGGGCTCCCAAATG
TCTCTGAGCCTCAGTT--

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

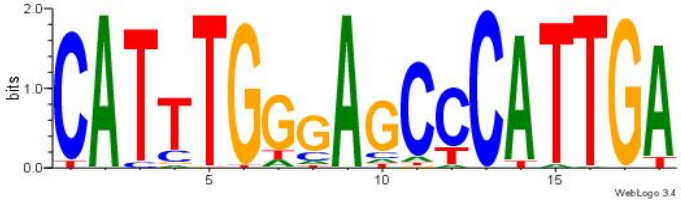

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

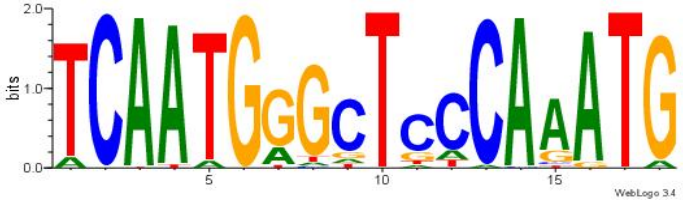

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.116797

Alignment:
ACCGAGMKMGCAGCTTCGGG
AACTGAGGCTCAGAGA----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

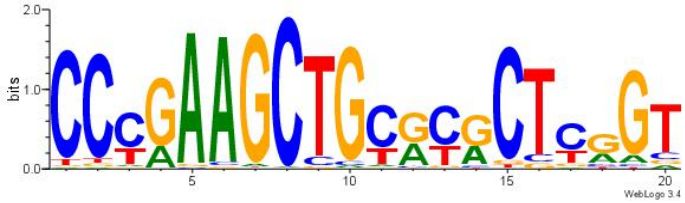

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

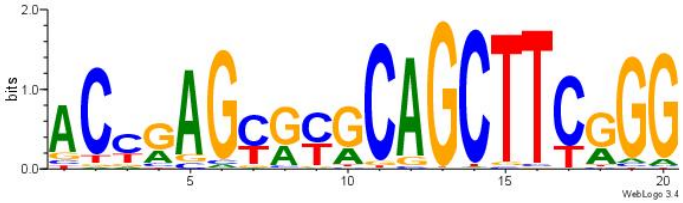

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.11702

Alignment:

```
CAACATGGATGRARCTGGAG
-AACTGAGGCTCAGAGA---
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

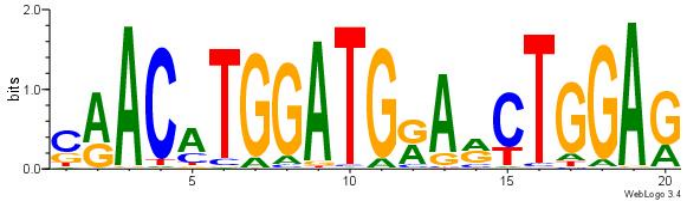

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

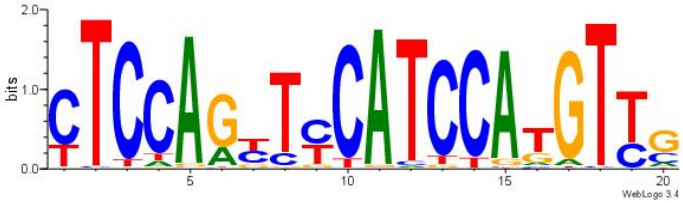

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.117481

Alignment:

```
CCTTGGCCAGCCCAGAAAG
-AACTGAGGCTCAGAGA--
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

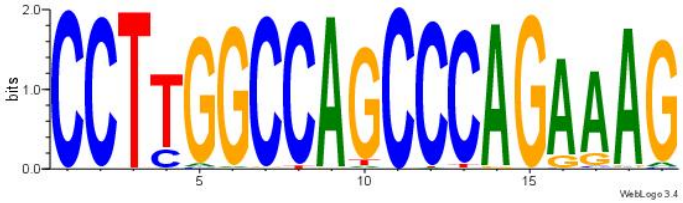

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

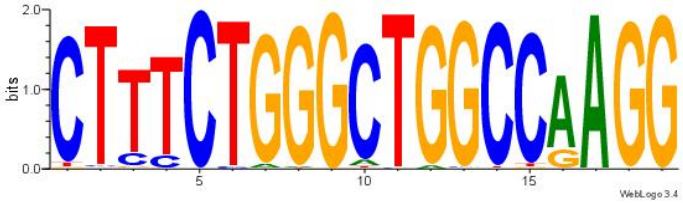

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.11799

Alignment:
AAGTCTCCCAATTACAACT
---TCTCTGAGCCTCAGTT

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

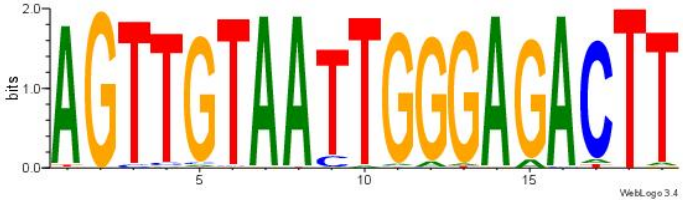

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

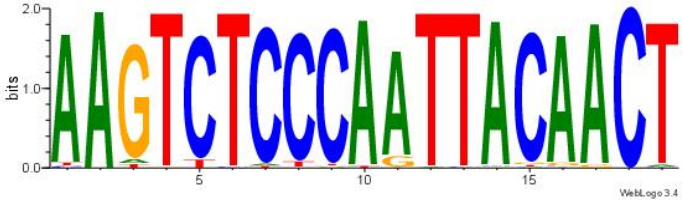

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.118122

Alignment:
GACATGGAGTCAAAGG
AACTGAGGCTCAGAGA

Original motif Consensus sequence: GACATGGAGTCAAAGG

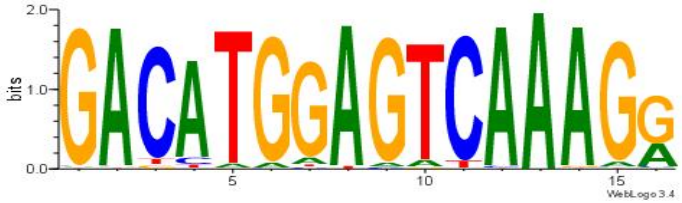

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

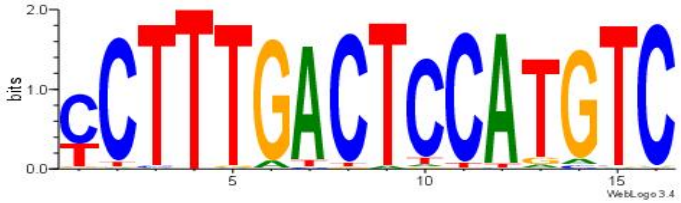

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.118784

Alignment:

```
GACAGGAGATTAACACTGAG
---AACTGAGGCTCAGAGA-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

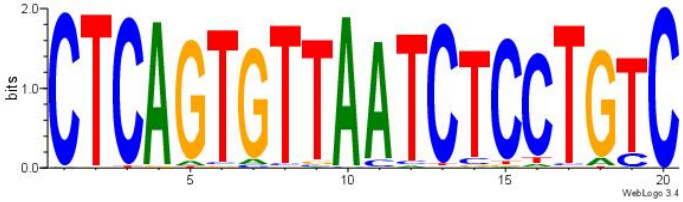

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

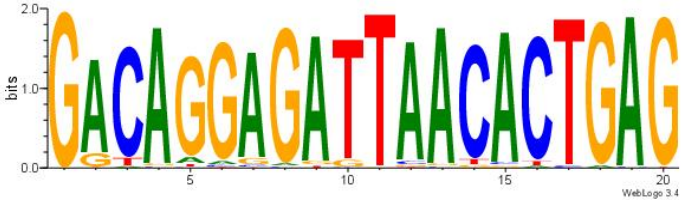

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.119037

Alignment:

```
MTCCTCCAGACCCCAGAATG
--TCTCTGAGCCTCAGTT--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

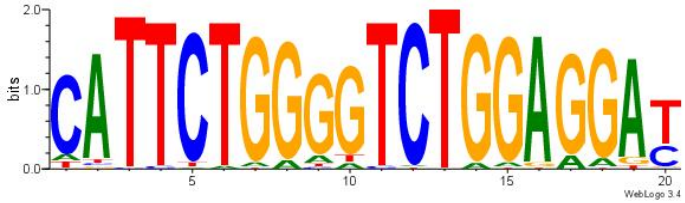

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

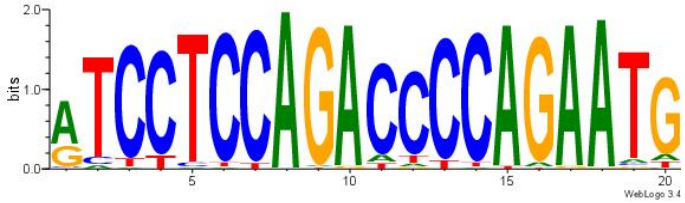

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.119105

Alignment:
GGAGCCGGCTCCCTCAGCTT
-TCTCTGAGCCTCAGTT---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

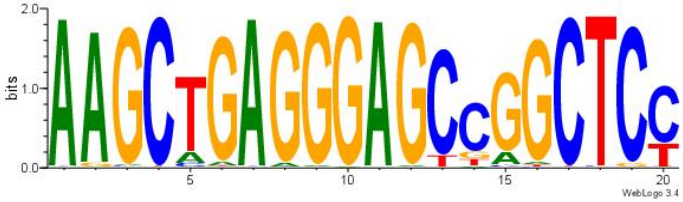

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

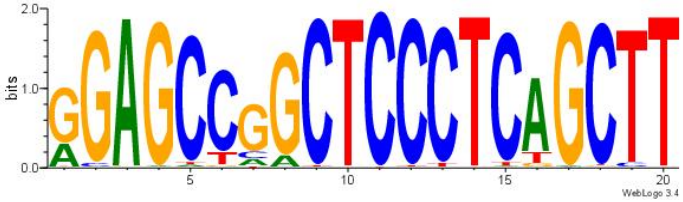

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.120032

Alignment:
AAGTTCTKGGKTACATGTGC
--TCTCTGAGCCTCAGTT--

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

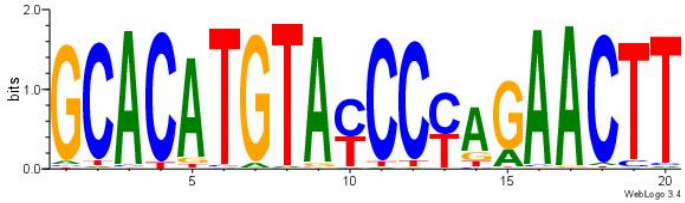

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

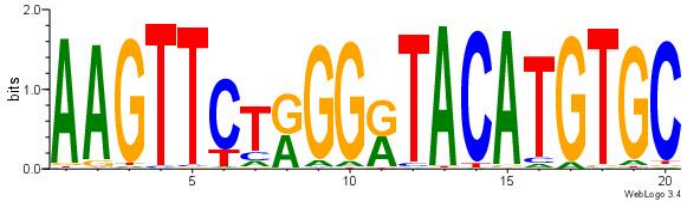

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.120667

Alignment:

```
AAAMAMMKMATGTTCTCACT
----AACTGAGGCTCAGAGA
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

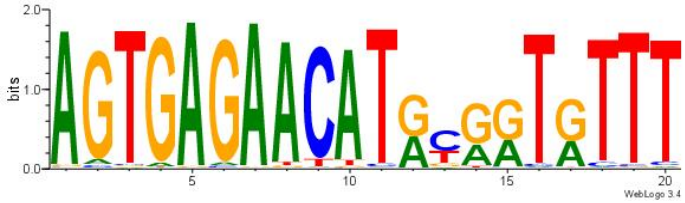

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

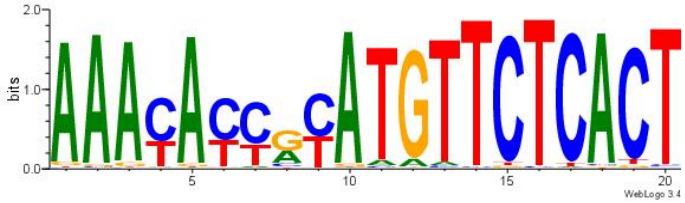

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.120846

Alignment:

```
TAGTGGTGATTTSTGAGAT
AACTGAGGCTCAGAGA---
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

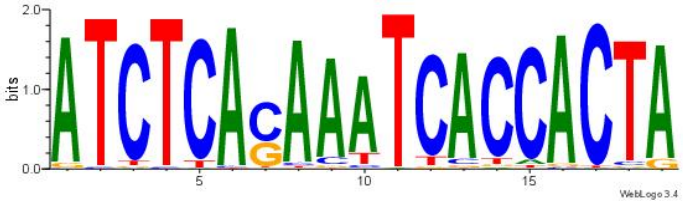

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

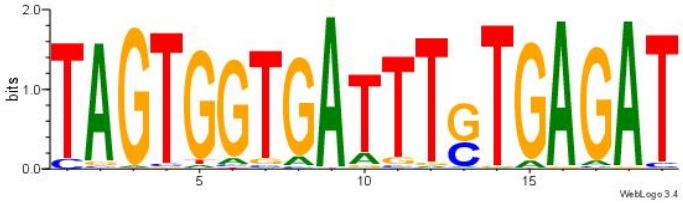

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.120933

Alignment:
AAAGAGAGTCAGCGAAG
AACTGAGGCTCAGAGA-

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

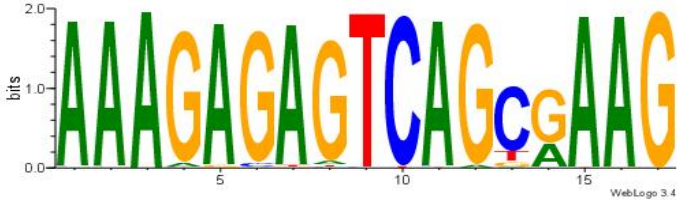

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

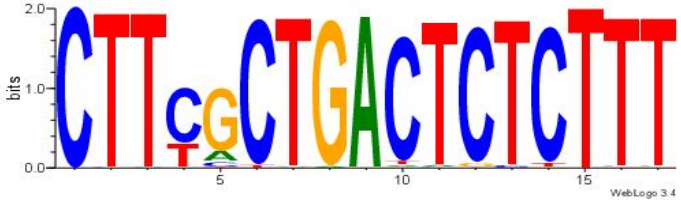

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.121475

Alignment:
CAAGTTGACACATAAAATTA
--AACTGAGGCTCAGAGA--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

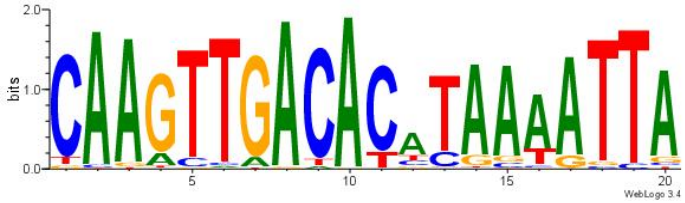

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

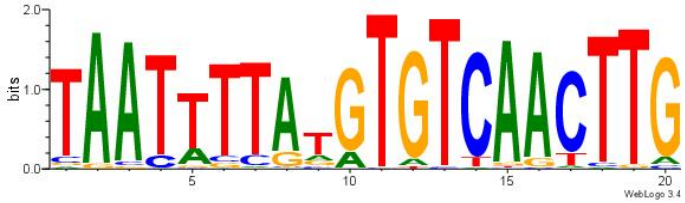

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.12306

Alignment:

```
ATGGACAYTTRGGTTGHTTC
----TCTCTGAGCCTCAGTT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

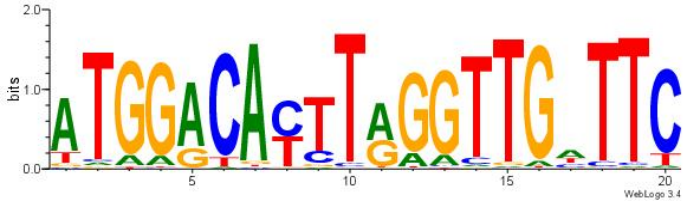

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

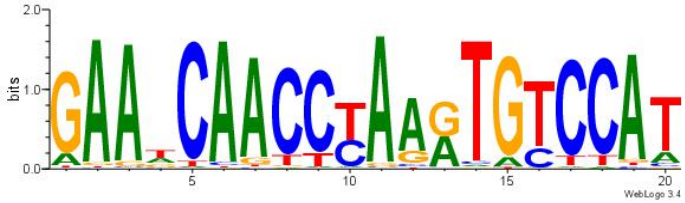

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.123266

Alignment:

```
AGGCTGTTTTACAGTTAAC
TCTCTGAGCCTCAGTT---
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

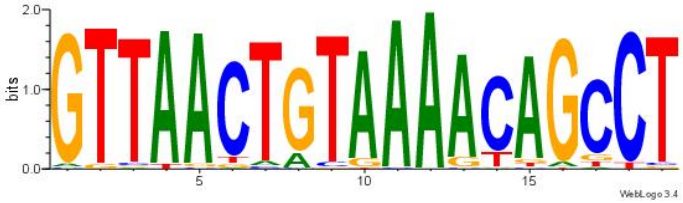

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

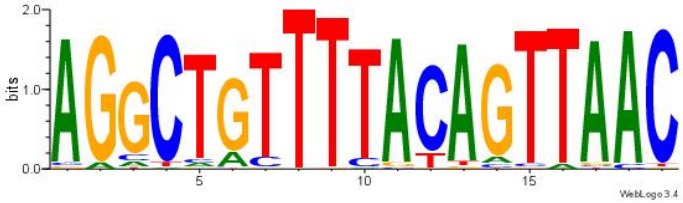

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.123464

Alignment:
GAAAGGGAACTCCCTGACCC
---AACTGAGGCTCAGAGA-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

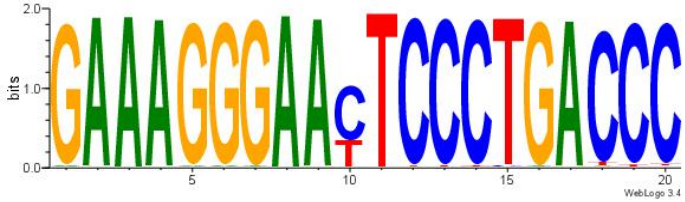

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

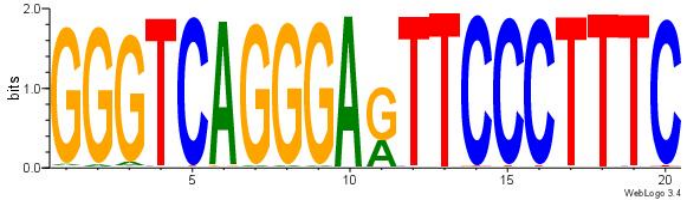

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.124069

Alignment:
GCCACCAMGCCMKGCTAAT
--TCTCTGAGCCTCAGTT-

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

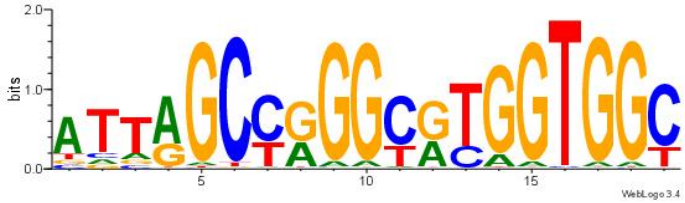

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

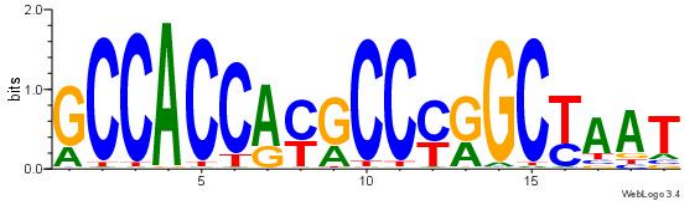

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.124381

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-TCTCTGAGCCTCAGTT---
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

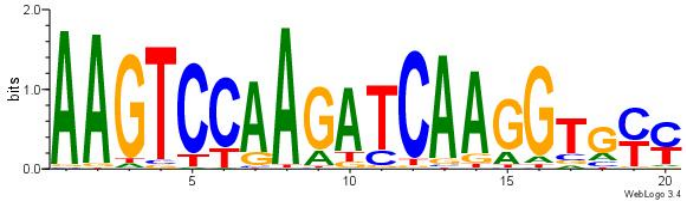

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

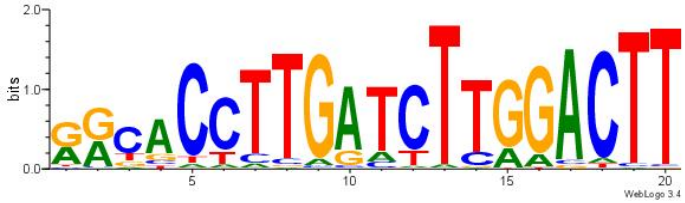

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.124671

Alignment:

```
CTGGGCRACAGAGYRAGACY
----AACTGAGGCTCAGAGA
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

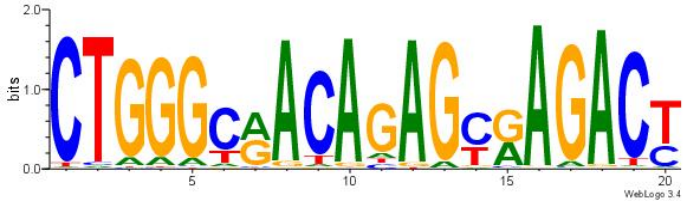

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

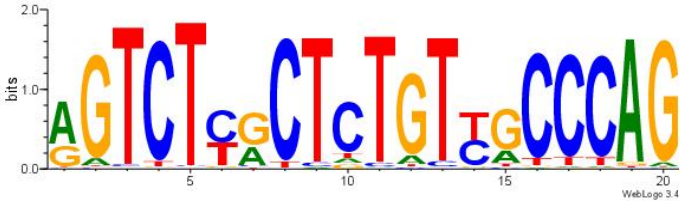

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.124952

Alignment:
ATACAATGGGGGTACAGRC
--AACTGAGGCTCAGAGA-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

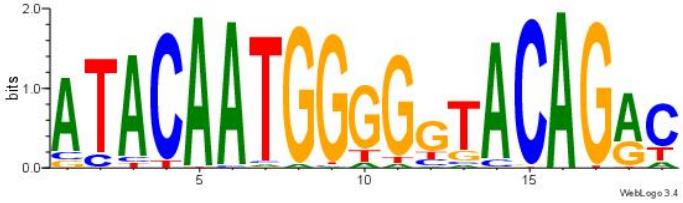

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

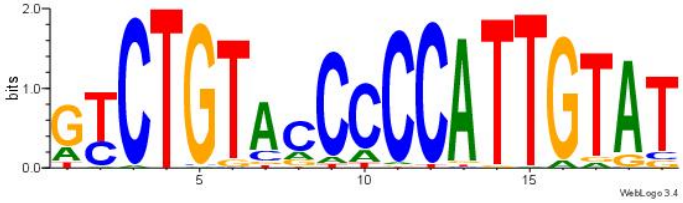

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.125617

Alignment:
GAAGGCAGCTAAGGCCCGGY
----AACTGAGGCTCAGAGA

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

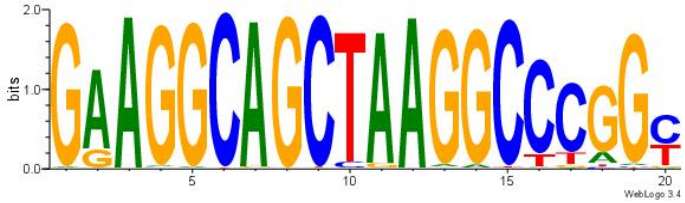

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

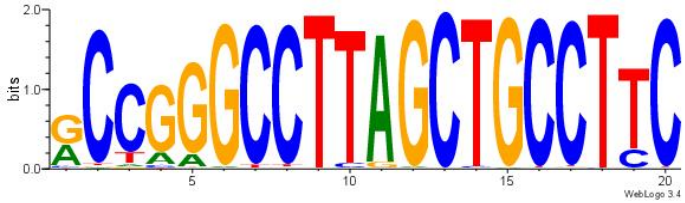

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.12576

Alignment:

```
GGATTTMKGACTTGCATGGG
---TCTCTGAGCCTCAGTT-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

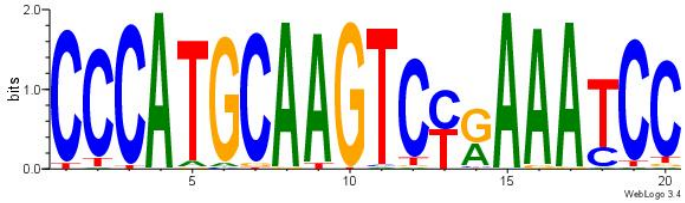

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

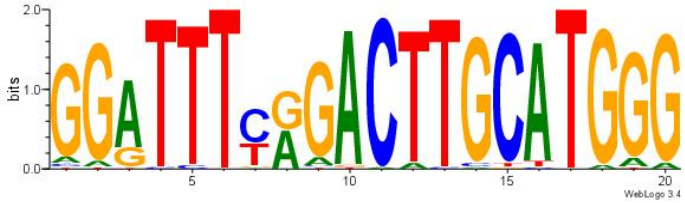

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.126351

Alignment:

```
ATGGAATAYTATTCAGCCAT
-AACTGAGGCTCAGAGA---
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

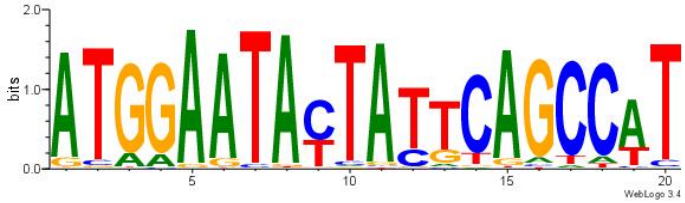

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

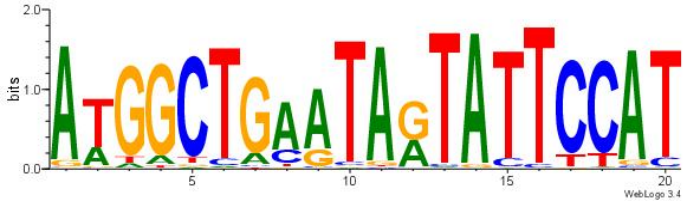

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.126753

Alignment:
TAGATAATAGCTCCAGCTTT
--TCTCTGAGCCTCAGTT--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

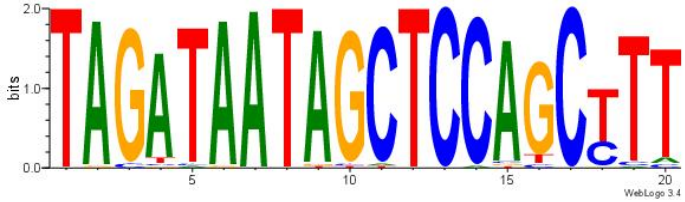

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

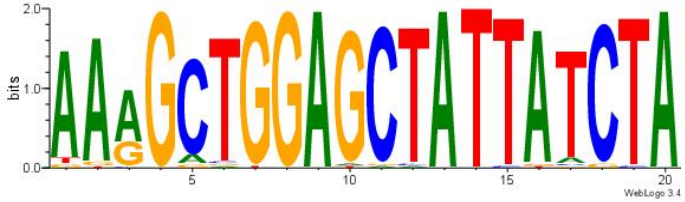

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.126965

Alignment:
GTGGCCCTCTTCTCACAGCT
---AACTGAGGCTCAGAGA-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

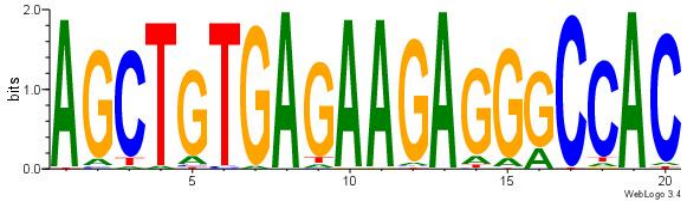

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

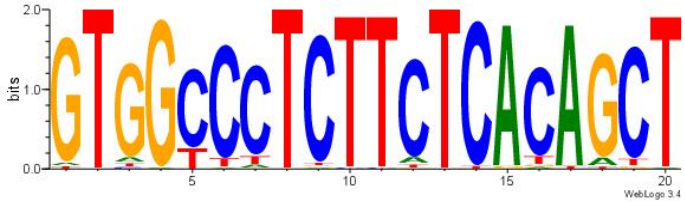

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.127177

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
---TCTCTGAGCCTCAGTT-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

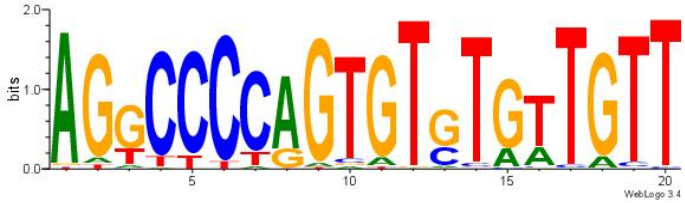

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

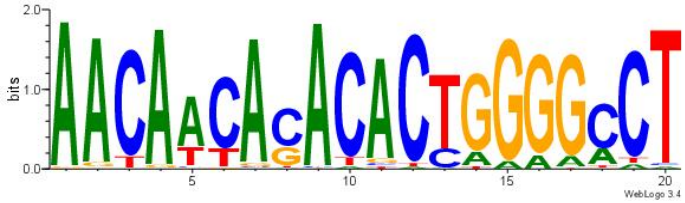

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.12724

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
AACTGAGGCTCAGAGA----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

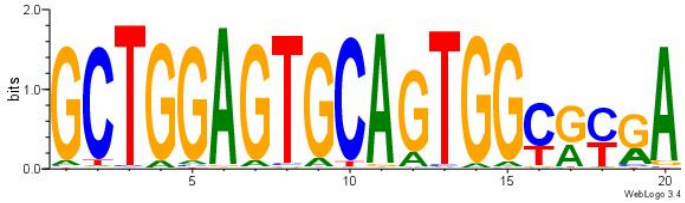

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

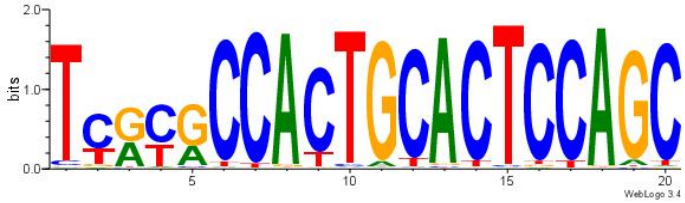

Dataset #: 1 Motif ID: 188 Motif name: Motif 188

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

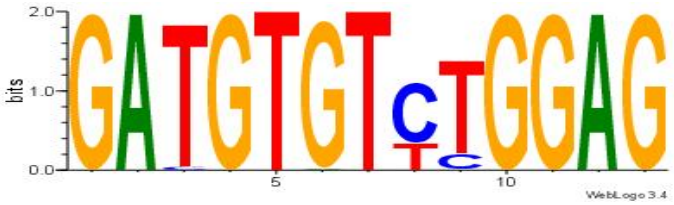

Best Matches for Motif ID 188 (Highest to Lowest)

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0694148

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
---GATGTGTCTGGAG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

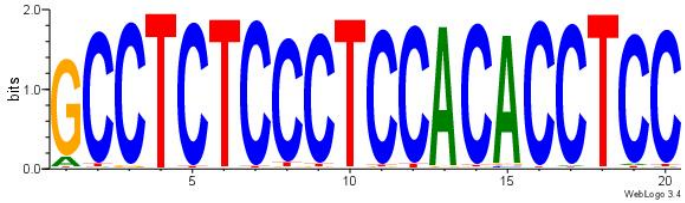

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

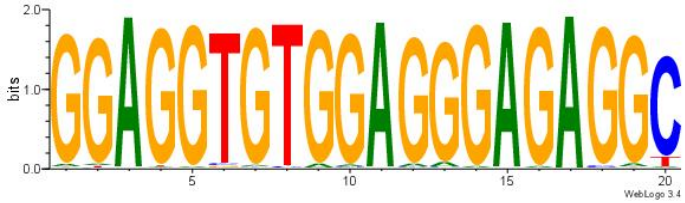

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0708894

Alignment:

```
CAACATGGATGRARCTGGAG
GATGTGTCTGGAG-------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

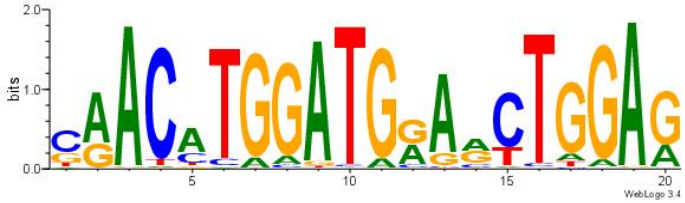

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

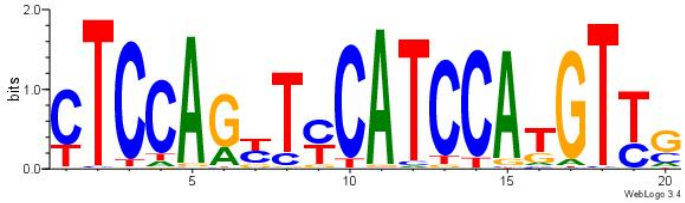

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0851305

Alignment:
CTCCTGCCTCAGCY
CTCCAGACACATC-

Original motif Consensus sequence: CTCCTGCCTCAGCY

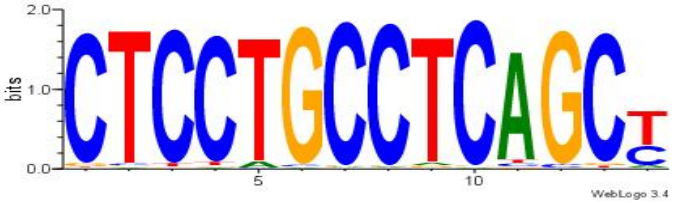

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

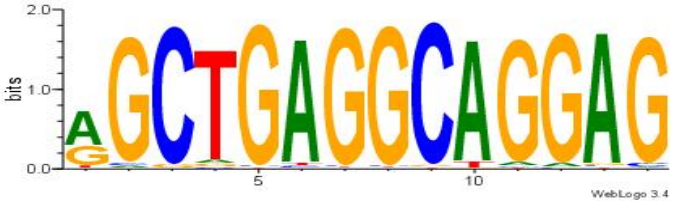

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.0869612

Alignment:
TMGGGAGGCTGAGGCAGGAG
-------GATGTGTCTGGAG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

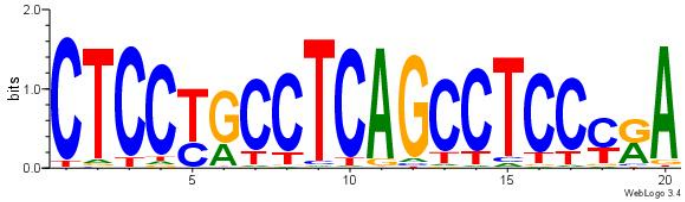

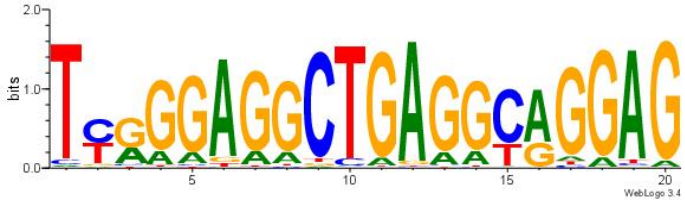

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0873184

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
GATGTGTCTGGAG-------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

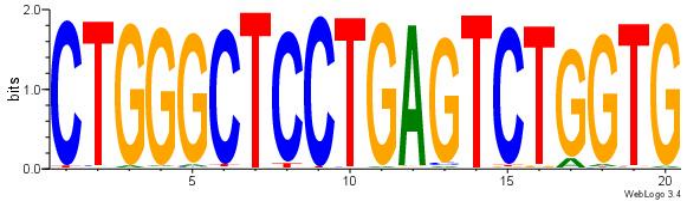

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

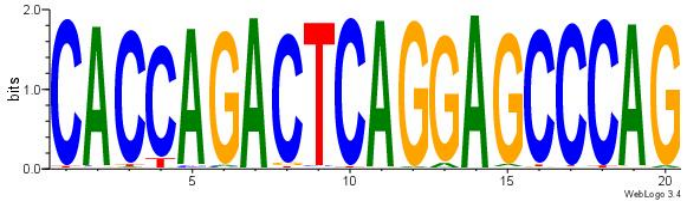

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0885175

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-CTCCAGACACATC------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

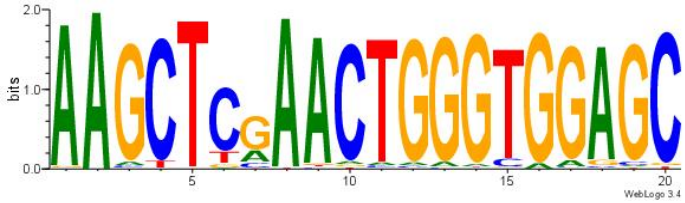

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

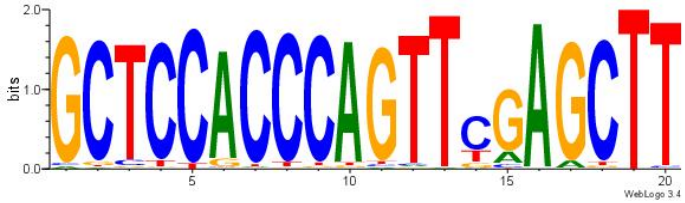

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0899775

Alignment:
MTCCTCCAGACCCCAGAATG
---CTCCAGACACATC----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

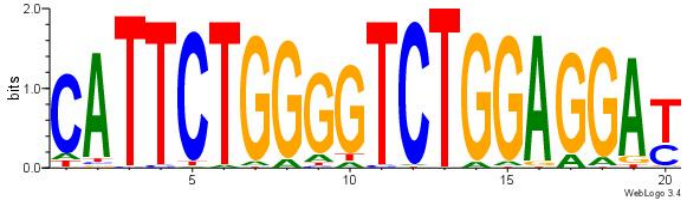

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

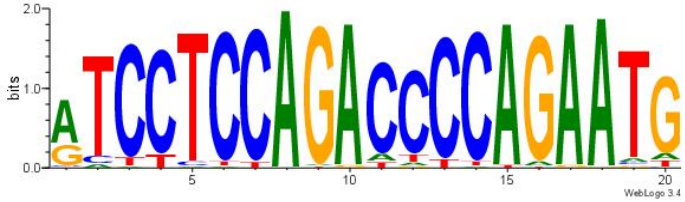

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.100557

Alignment:
GTGGCCCTCTTCTCACAGCT
------CTCCAGACACATC-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

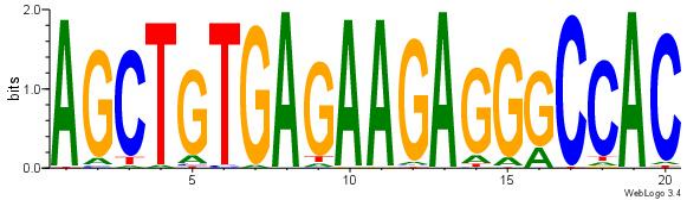

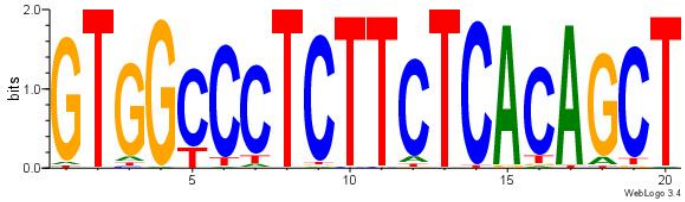

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.101663

Alignment:

```
GAATCCTGGGACAGCCTGT
--CTCCAGACACATC----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

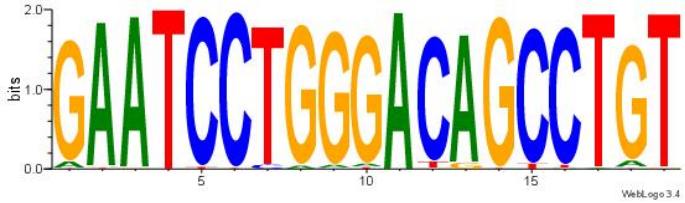

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

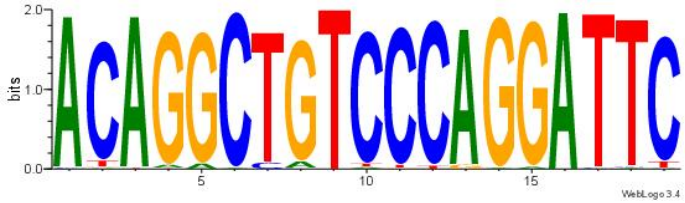

Dataset #: 1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.103868

Alignment:

```
TGCCCAGTCTGGAAAGTG
----GATGTGTCTGGAG-
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

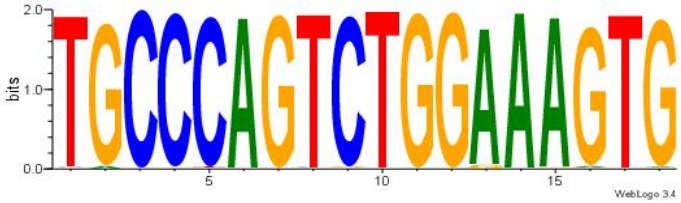

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

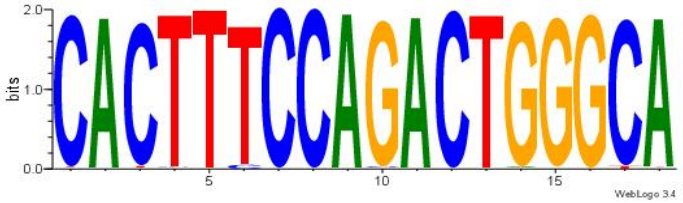

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.105546

Alignment:
GAATACCTCCTGAAGGACCT
-CTCCAGACACATC------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

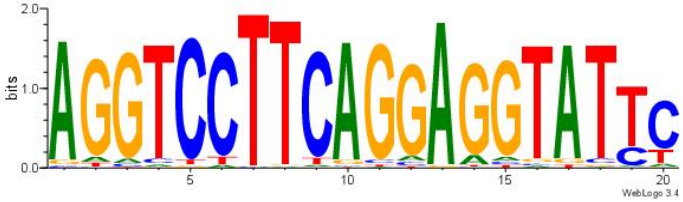

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

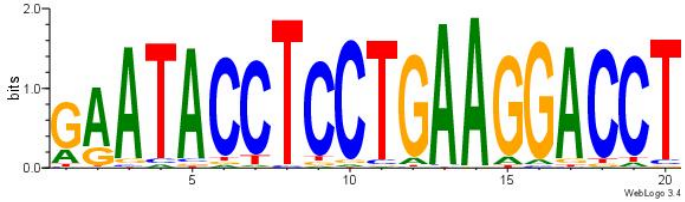

Dataset #: 1
Motif ID: 278
Motif name: Motif 278
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.106202

Alignment:
ACTTTCAGGCATAACA
--CTCCAGACACATC-

Original motif Consensus sequence: ACTTTCAGGCATAACA

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

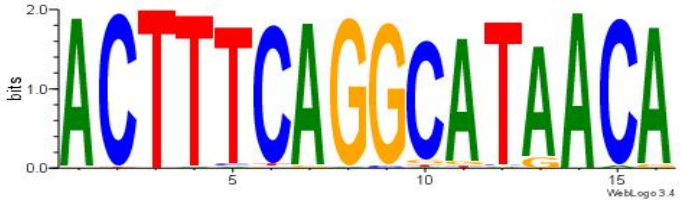

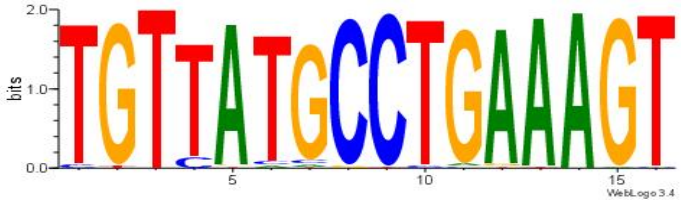

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.106254

Alignment:

```
GCACTCTGTMTCTAGCT
--GATGTGTCTGGAG--
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

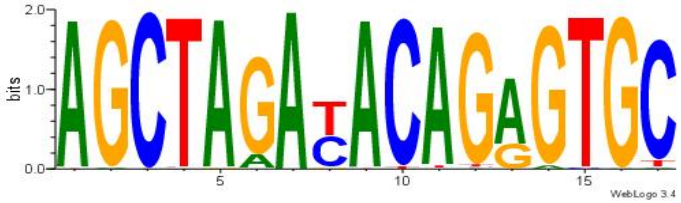

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

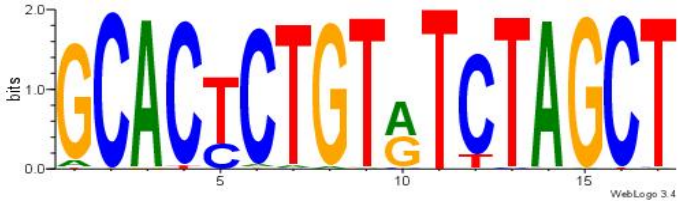

Dataset #:	1

Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107158

Alignment:

```
TATGAGCCTGTAA
GATGTGTCTGGAG
```

Original motif Consensus sequence: TATGAGCCTGTAA

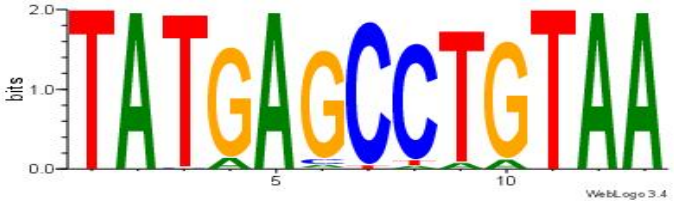

Reverse complement motif Consensus sequence: TTACAGGCTCATA

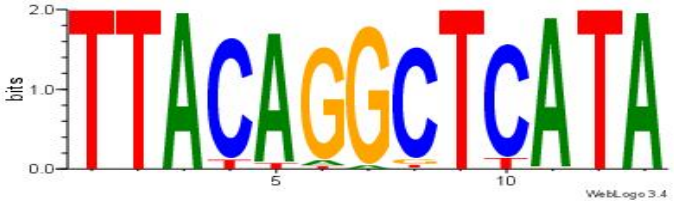

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.107162

Alignment:
AGAGCTCTGGCTGGCATCT
---GATGTGTCTGGAG---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

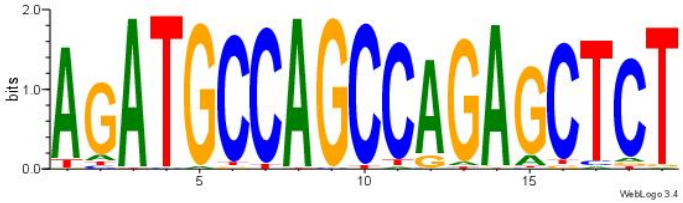

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

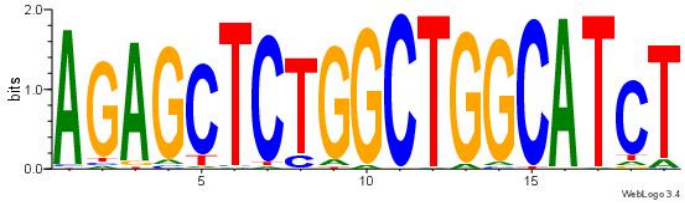

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.107194

Alignment:
ATGTAACCAAAYACCACCTG
----CTCCAGACACATC---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

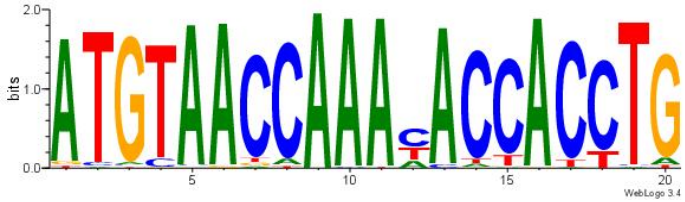

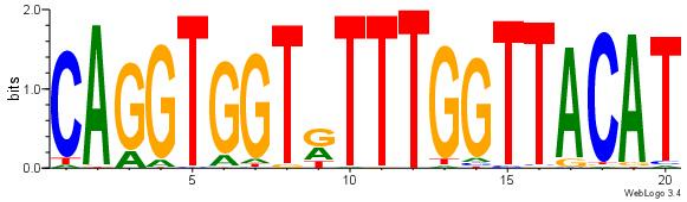

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.108128

Alignment:

```
AAAGTGCCGAGAKTGCAGC
GATGTGTCTGGAG------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

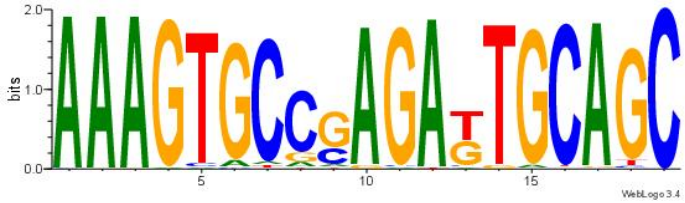

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

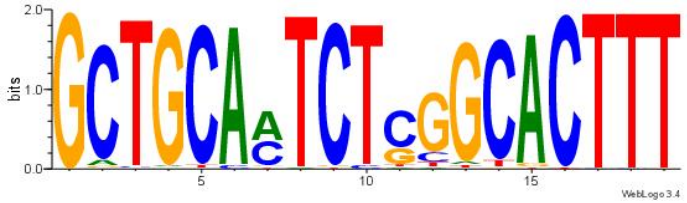

Dataset #:	1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.108205

Alignment:

```
TACACCCTCCGCAGCC
-CTCCAGACACATC--
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

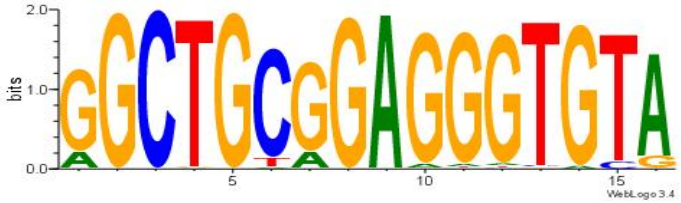

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

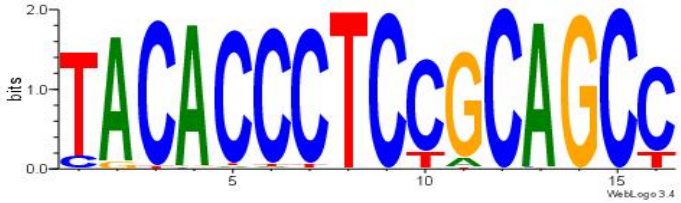

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.109132

Alignment:
CCCAAATCTCATSTTGAAT
CTCCAGACACATC------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

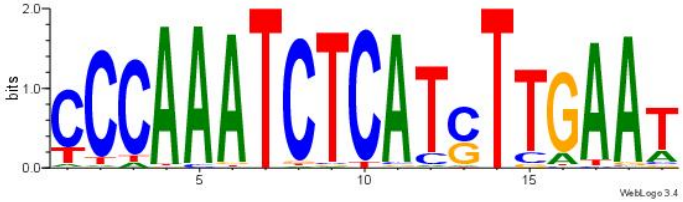

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

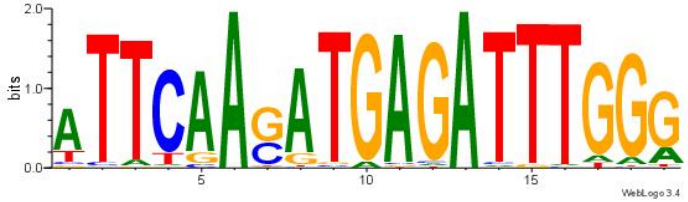

Dataset #: 1
Motif ID: 276
Motif name: Motif 276
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.109671

Alignment:
TTCCTAACAGGCCA
CTCCAGACACATC-

Original motif Consensus sequence: TGGCCTGTTAGGAA

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

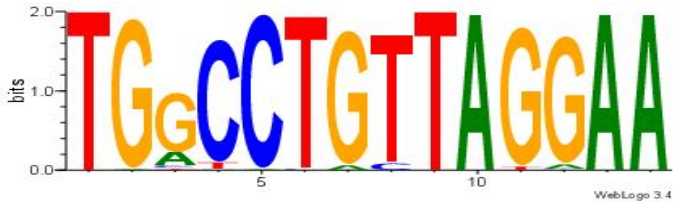

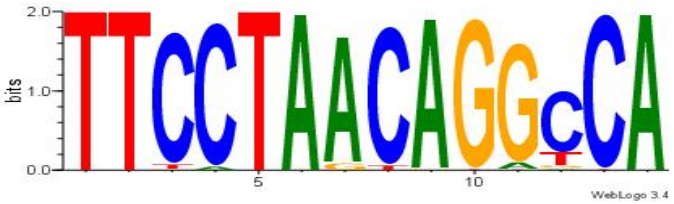

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.111185

Alignment:

```
ATCTCASAAATCACCACTA
--CTCCAGACACATC----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

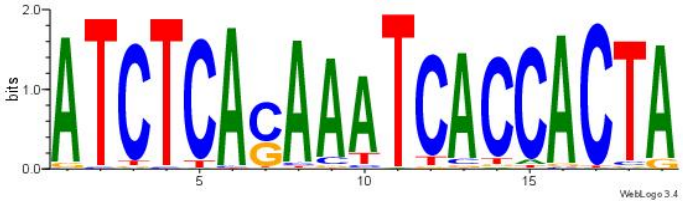

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

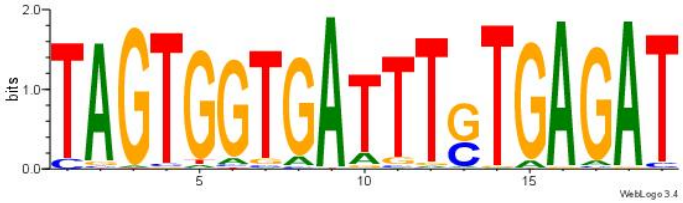

Dataset #: 1

Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.11146

Alignment:

CTACATGGACCTT

CTCCAGACACATC

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

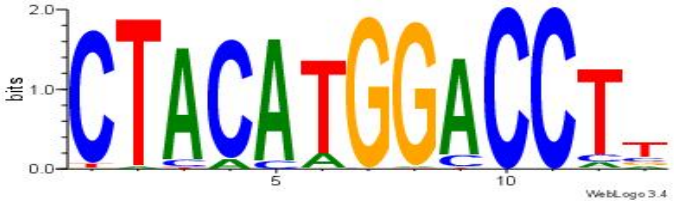

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111856

Alignment:
GCTGGGATTACAGG
-GATGTGTCTGGAG

Original motif Consensus sequence: GCTGGGATTACAGG

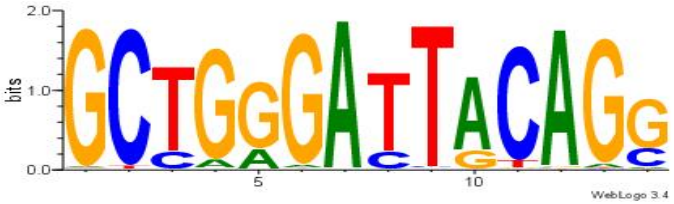

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111871

Alignment:
CAAAGTCTTAACTCATT
----CTCCAGACACATC

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

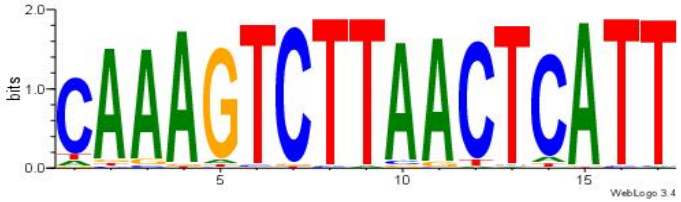

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.112328

Alignment:

```
GCTGGCCCKGGTGCTAAGC
GATGTGTCTGGAG------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

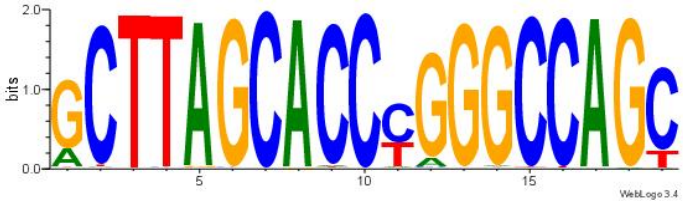

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

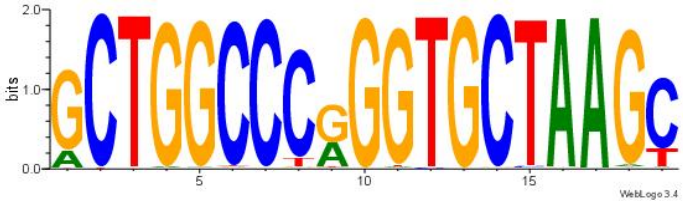

Dataset #:	1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.112737

Alignment:

```
AAGTCTCCCAATTACAACT
-----CTCCAGACACATC-
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

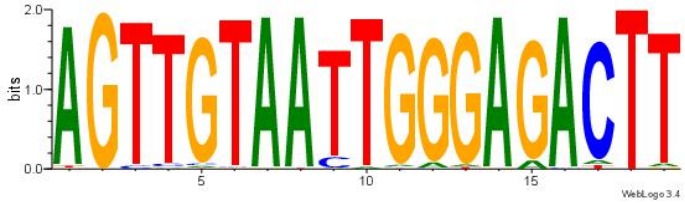

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

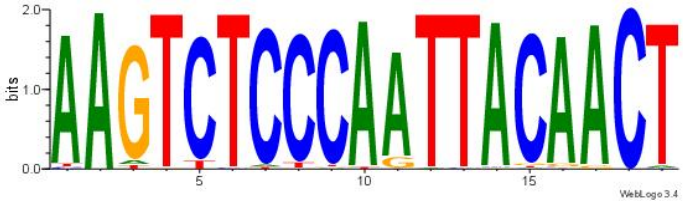

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.11279

Alignment:
GCCGTTTKTTAAGCCCGTY
------GATGTGTCTGGAG

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

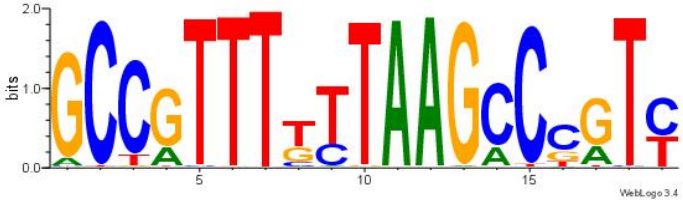

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

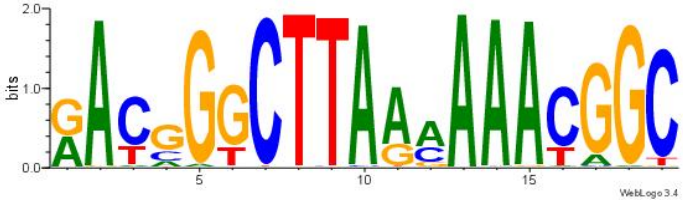

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.113725

Alignment:
GCCACCAMGCCMKGCTAAT
----CTCCAGACACATC--

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

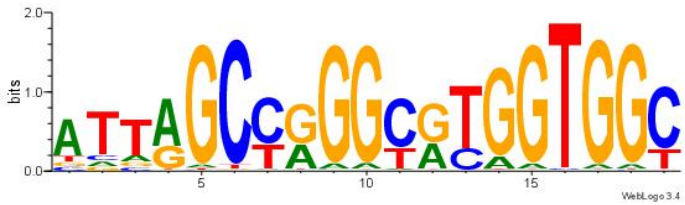

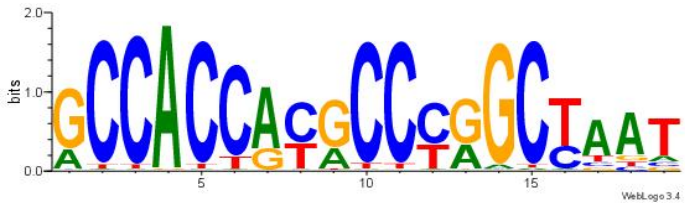

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.114277

Alignment:

```
CCCTGCTAGAACCTCCAA
--CTCCAGACACATC---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

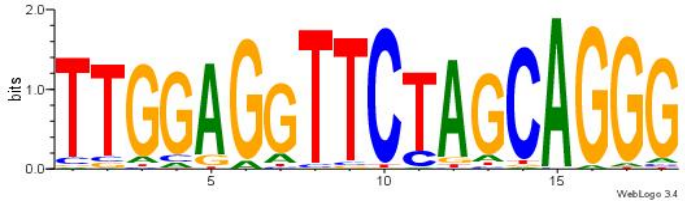

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.11513

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--GATGTGTCTGGAG-----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

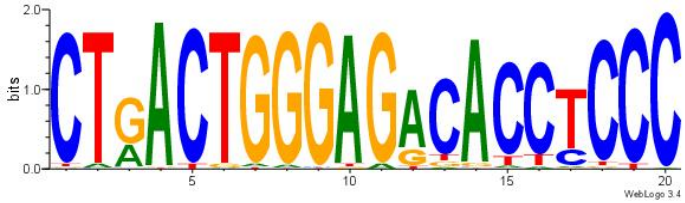

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

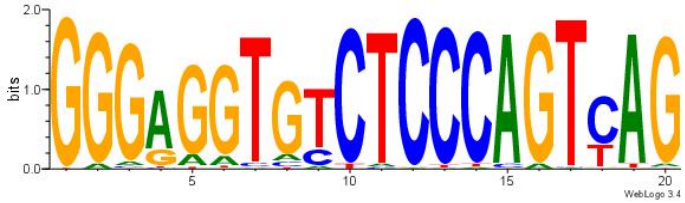

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.115803

Alignment:
GATCACGAGGTCAGGAG
GATGTGTCTGGAG----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

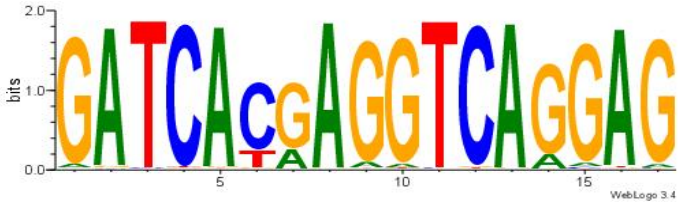

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

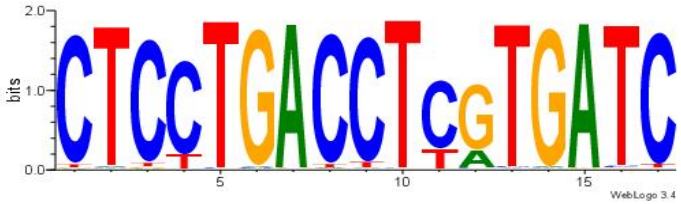

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.115812

Alignment:
GKCTGTACCCCCATTGTAT
--CTCCAGACACATC----

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

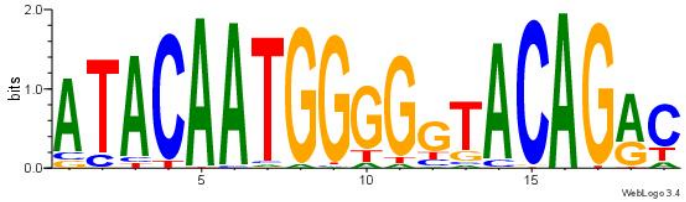

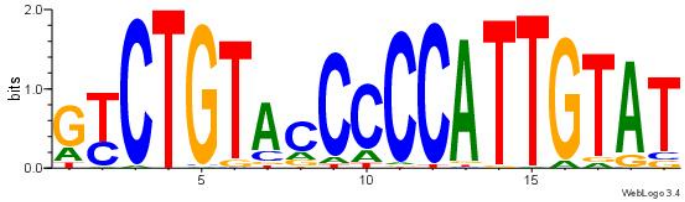

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.115967

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--GATGTGTCTGGAG-----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

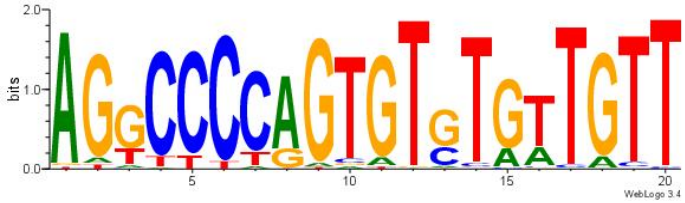

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

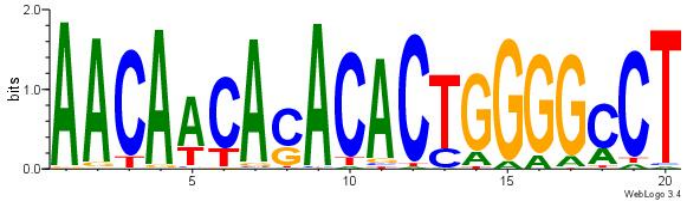

Dataset #:	1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.116093

Alignment:

```
TGCTCACACAAAGCCTGT
----CTCCAGACACATC-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

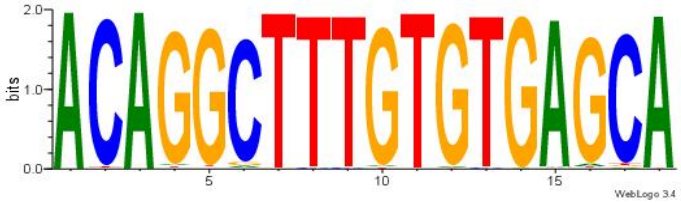

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

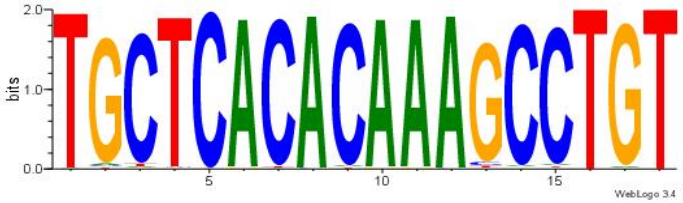

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.116782

Alignment:
ACTCCCTAGTGAGATGAACC
----CTCCAGACACATC---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

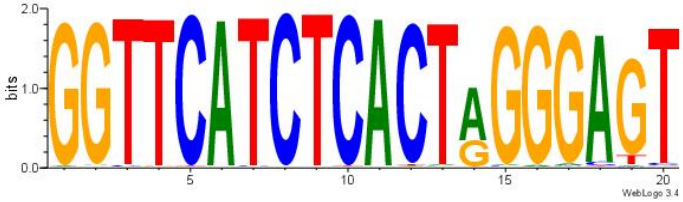

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

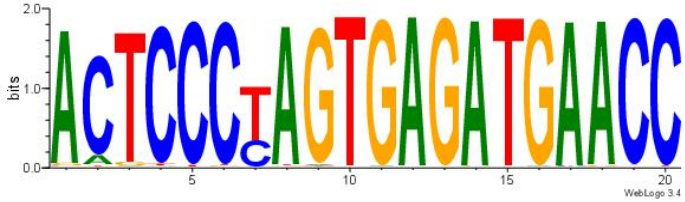

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.117364

Alignment:
ATTGGTGTATTTACAATCCC
----GATGTGTCTGGAG---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

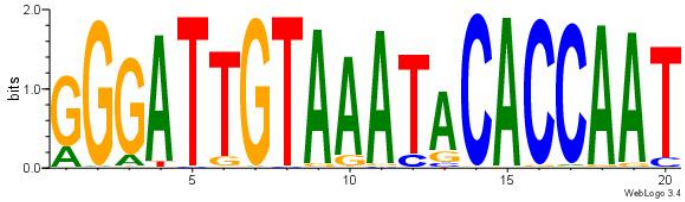

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.117713

Alignment:
GTCTCWAMAAAAAAWAMAAA
--CTCCAGACACATC-----

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

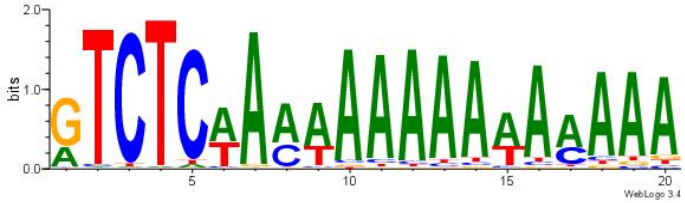

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

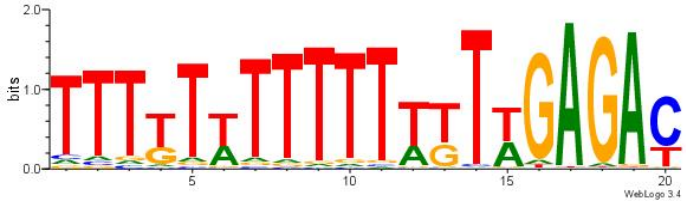

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.120033

Alignment:

```
GAAACTGCTTTGTGATGTGT
------GATGTGTCTGGAG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

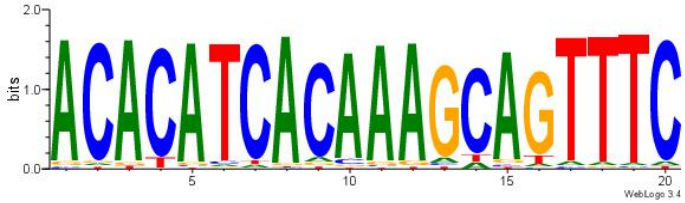

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

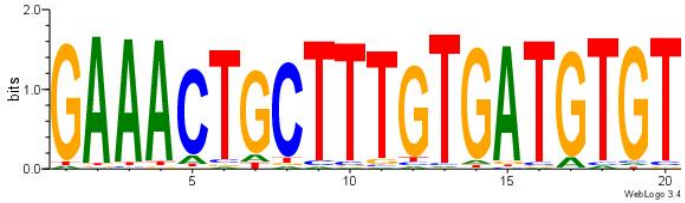

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.120599

Alignment:
GCGCTCKTCGGGGAGGCTCG
--GATGTGTCTGGAG-----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

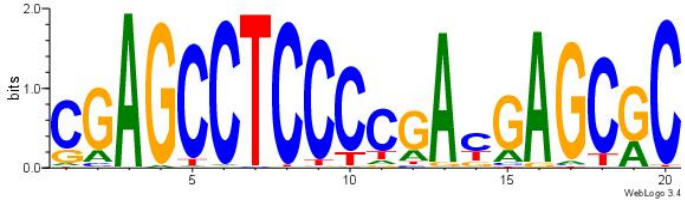

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

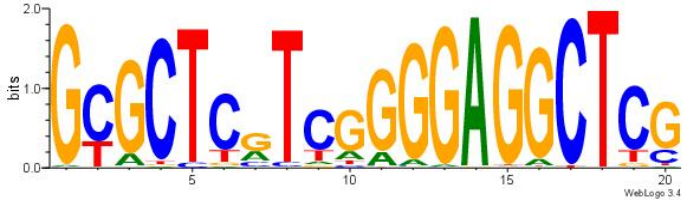

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.120649

Alignment:
GGCTGAGGAGTGCG
-GATGTGTCTGGAG

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

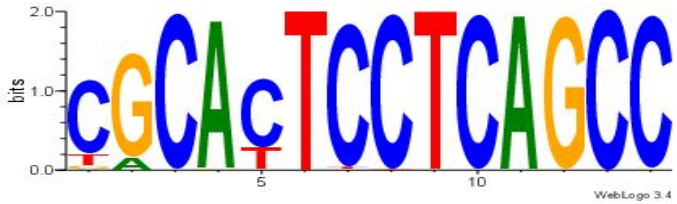

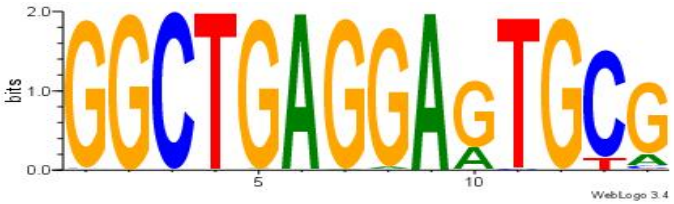

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.121142

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
----GATGTGTCTGGAG---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

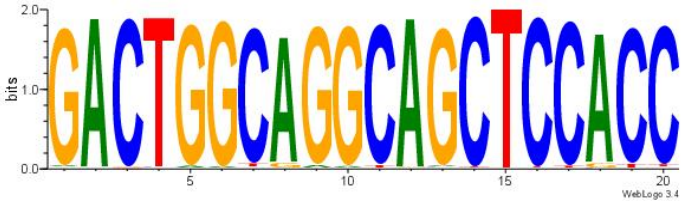

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

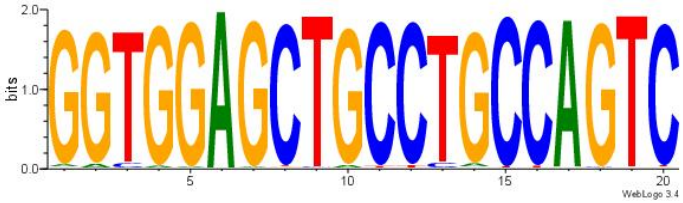

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.121319

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-------GATGTGTCTGGAG
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

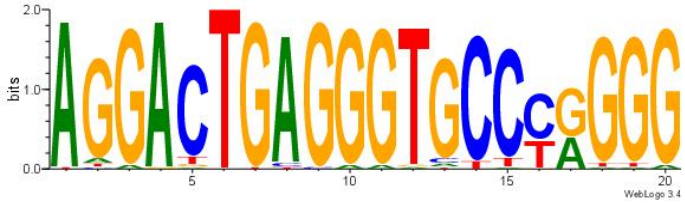

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

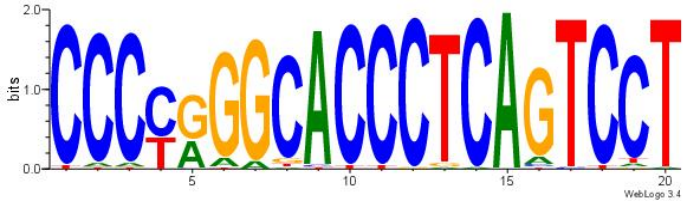

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.121445

Alignment:
CTGCTATAACAAA
CTCCAGACACATC

Original motif Consensus sequence: CTGCTATAACAAA

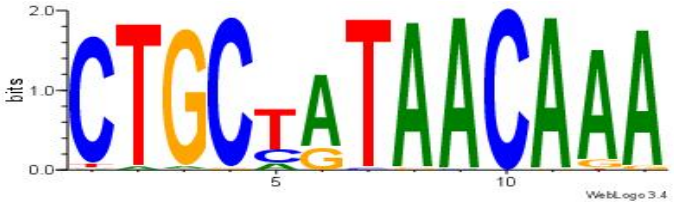

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

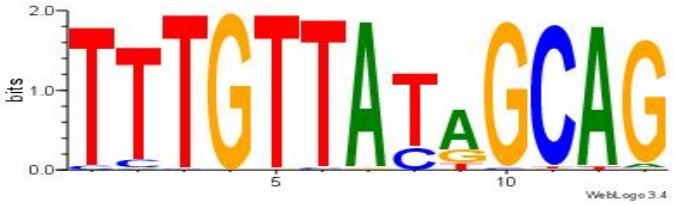

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.12157

Alignment:
CAAGGGTATAYGAGTAGCTG
----GATGTGTCTGGAG---

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

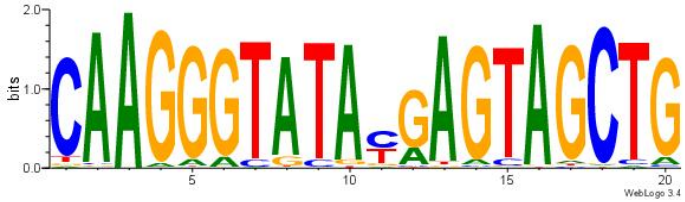

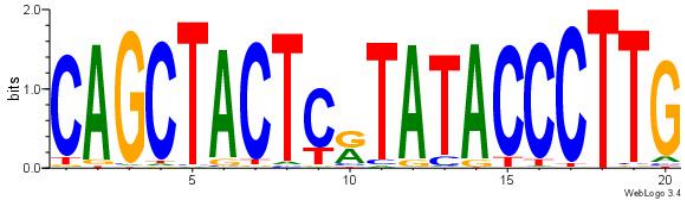

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.121914

Alignment:
ACACACAYACACACACACA
------CTCCAGACACATC

Original motif Consensus sequence: ACACACAYACACACACACA

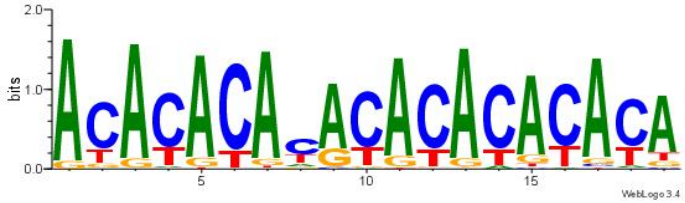

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

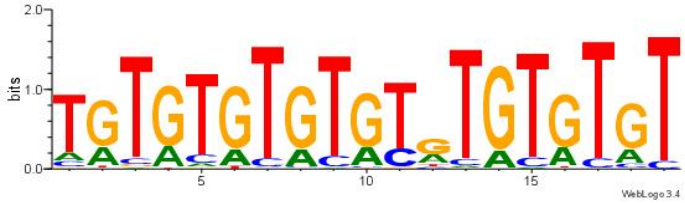

Dataset #: 1

Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.122078

Alignment:

```
TTGGTGGTCTCTTCACA
---GATGTGTCTGGAG-
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

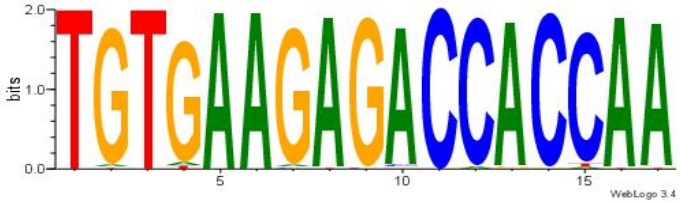

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

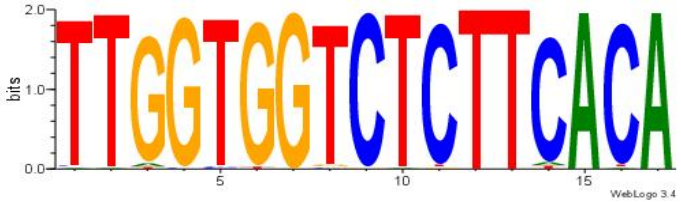

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.122495

Alignment:
GGATCCACTGGGTGAAGCCA
------GATGTGTCTGGAG-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

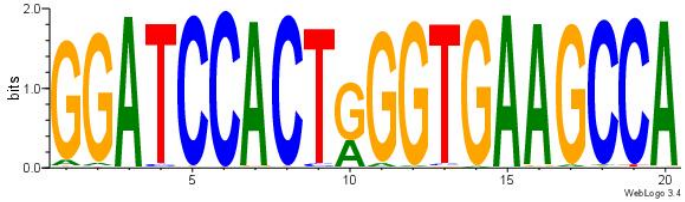

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

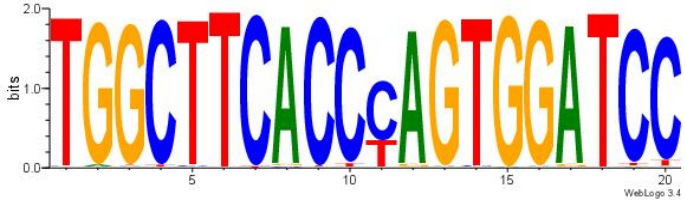

Dataset #: 1
Motif ID: 38
Motif name: Motif 38
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.122545

Alignment:
GCAGTGAGCYRAGA
-GATGTGTCTGGAG

Original motif Consensus sequence: GCAGTGAGCYRAGA

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

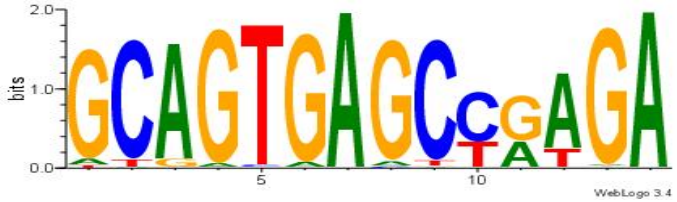

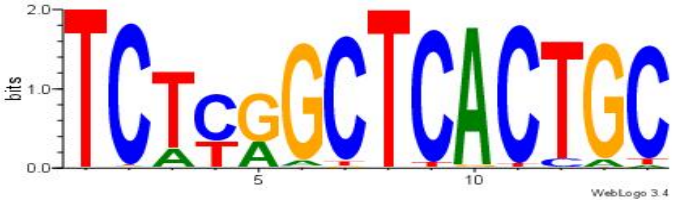

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.122604

Alignment:

```
CCTAGATTTCAGARGATGT
----GATGTGTCTGGAG--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

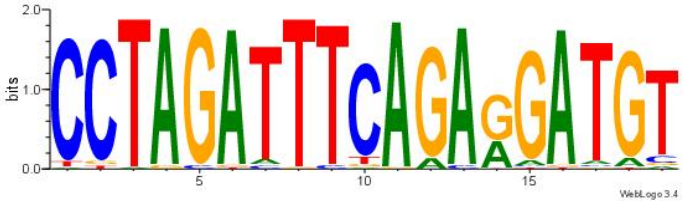

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

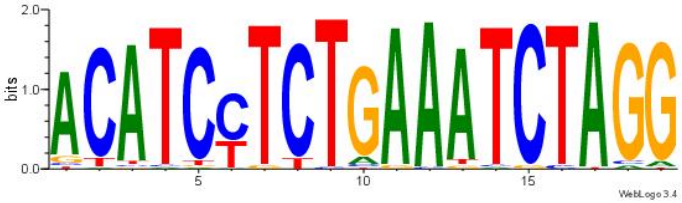

Dataset #:	1

Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.12352

Alignment:

```
GGRCKCACWGGAGC
GATGTGTCTGGAG-
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

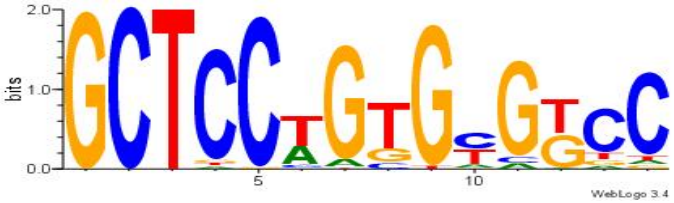

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1 Motif ID: 189 Motif name: Motif 189

Original motif Consensus sequence: ATCCAGTCTATCATTG

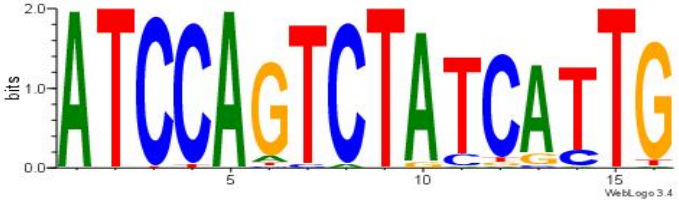

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Best Matches for Motif ID 189 (Highest to Lowest)

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0977739

Alignment:

```
TTCAMTCATGATTTGGCTCT
--CAATGATAGACTGGAT--
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

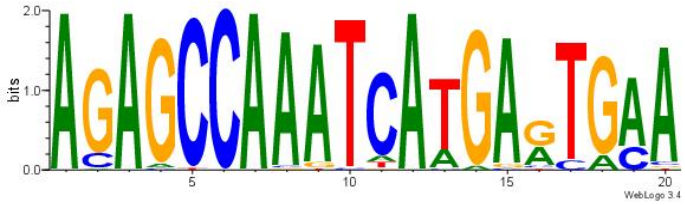

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

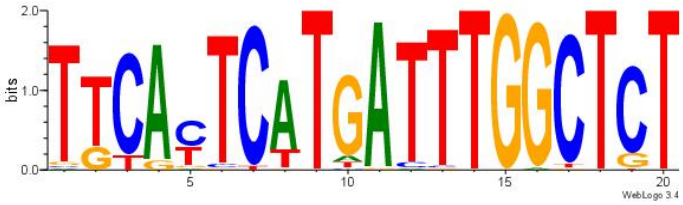

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.106334

Alignment:

```
CCCATGCAAGTCYRAAATCC
-CAATGATAGACTGGAT---
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

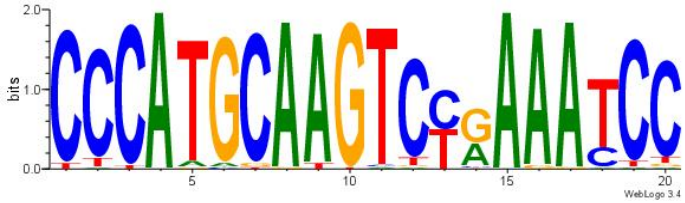

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

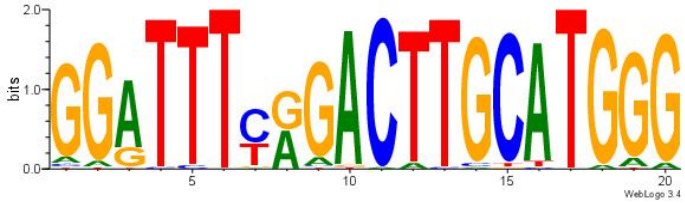

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.108161

Alignment:

```
ATCCATCCATCCATCCA
ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

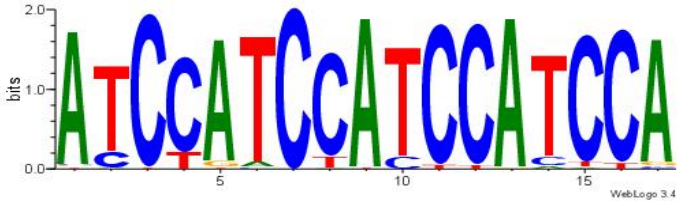

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.108907

Alignment:

```
MGGGATATAATCTCCTGGTG
ATCCAGTCTATCATTG----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

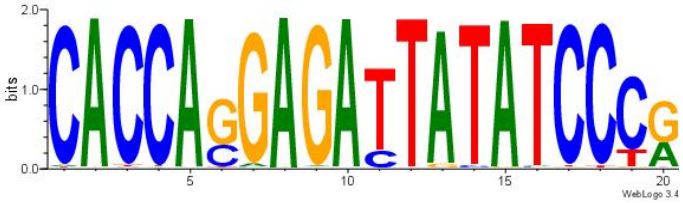

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

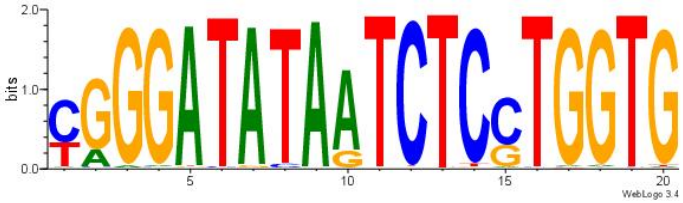

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.10982

Alignment:

```
CAGCTACTCKTATACCCTTG
----ATCCAGTCTATCATTG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

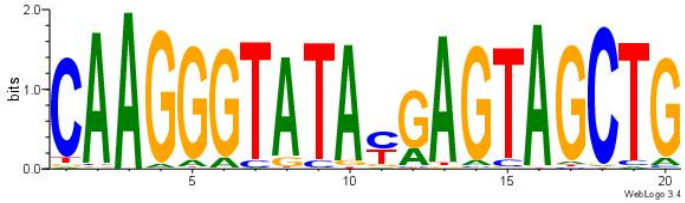

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

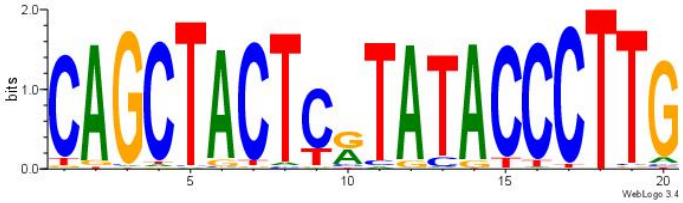

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.112012

Alignment:
CACCTCCCAGACMGGGT
-CAATGATAGACTGGAT

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

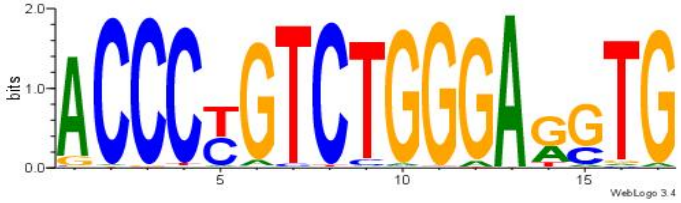

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

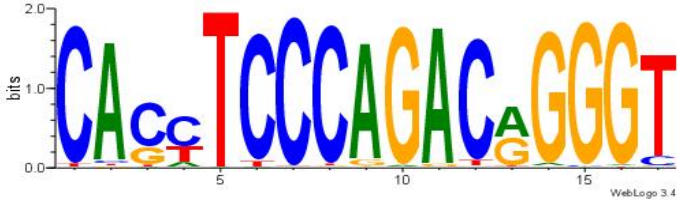

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.113419

Alignment:
AATCAACCCTGGYRATCAAT
-ATCCAGTCTATCATTG---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

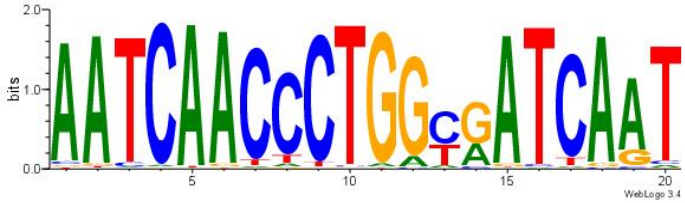

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

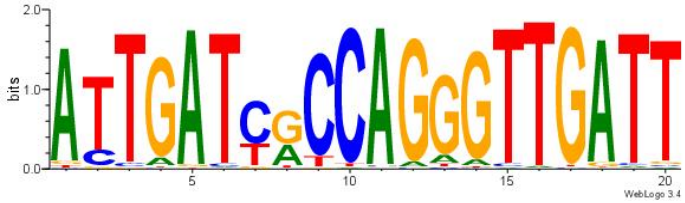

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.113421

Alignment:

```
AGAAATCGAGCRCAGCGCCG
----ATCCAGTCTATCATTG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

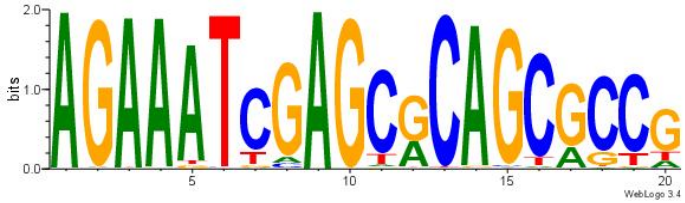

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

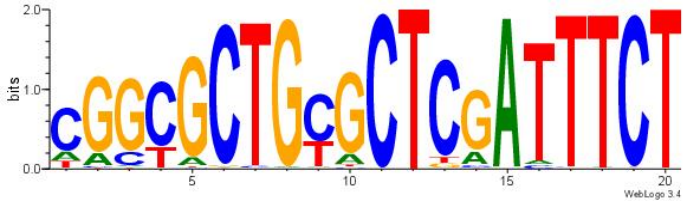

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.114682

Alignment:

```
CATTTGGGAGCCCATTGA
-ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

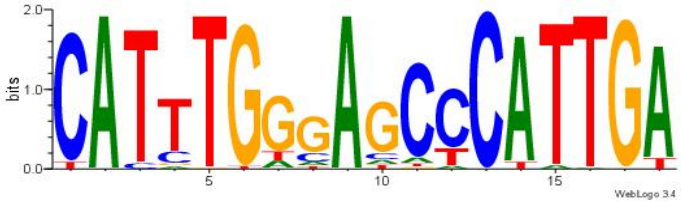

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

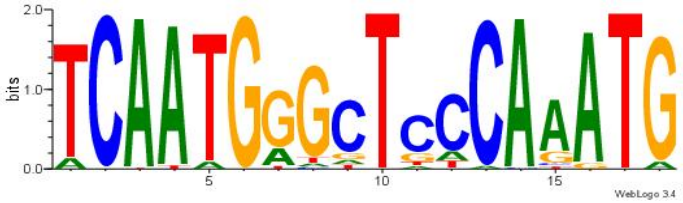

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.11511

Alignment:
GTCCCATCGACCACCCAAG
ATCCAGTCTATCATTG---

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

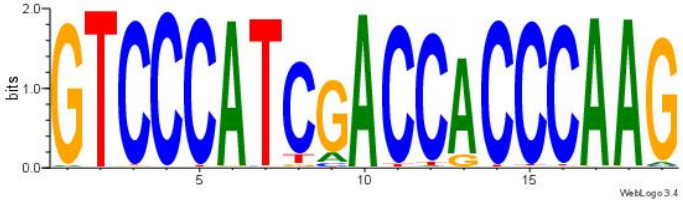

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

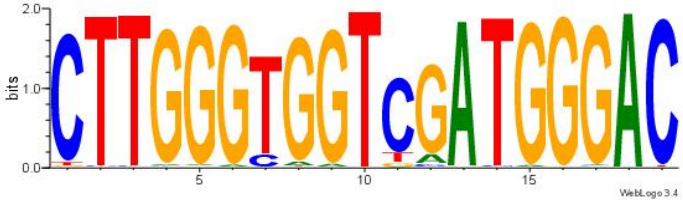

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.116738

Alignment:
GACAGGAGATTAACACTGAG
--ATCCAGTCTATCATTG--

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

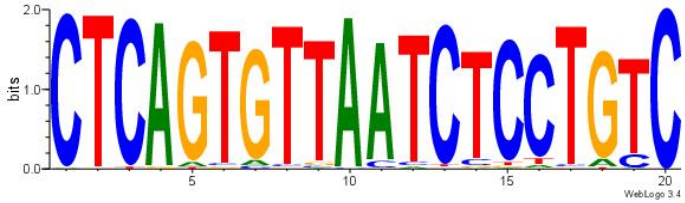

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

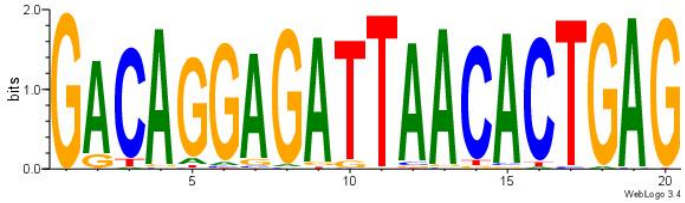

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.117595

Alignment:

```
ATTCAASATGAGATTTGGG
---CAATGATAGACTGGAT
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

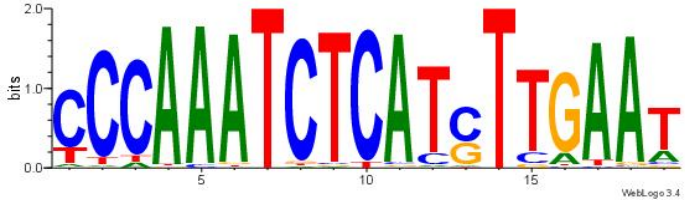

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

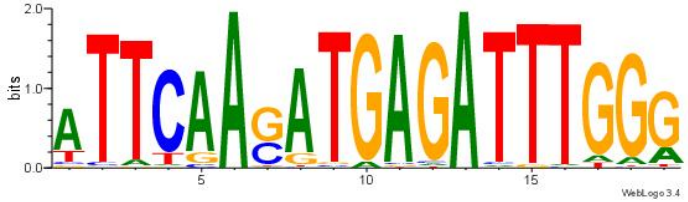

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.118469

Alignment:

```
AACAACASACACTGGGGCCT
-CAATGATAGACTGGAT---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

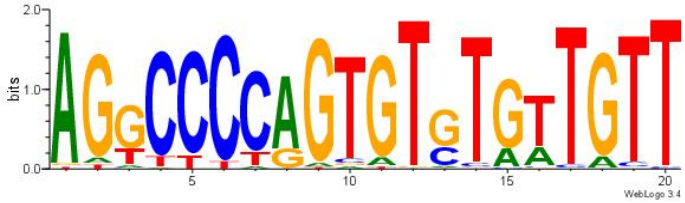

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

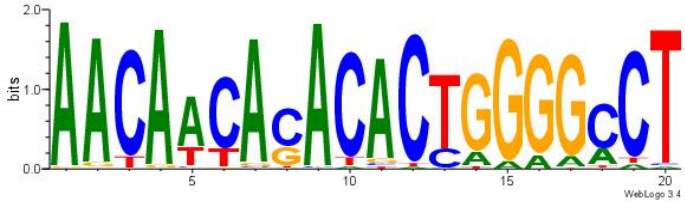

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.119097

Alignment:
CACTTTCCAGACTGGGCA
-CAATGATAGACTGGAT-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

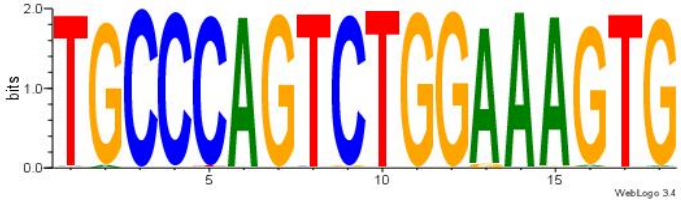

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

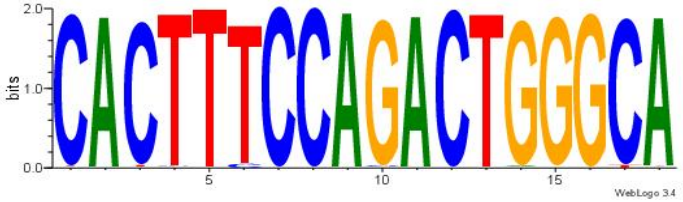

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.119184

Alignment:
GTTAACTGTAAAACAGCCT
---CAATGATAGACTGGAT

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

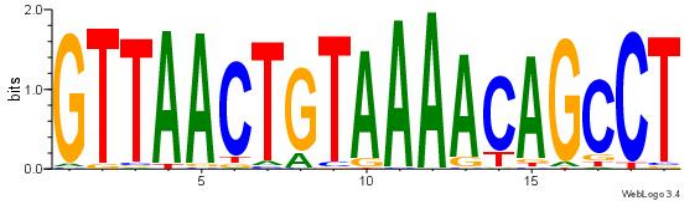

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

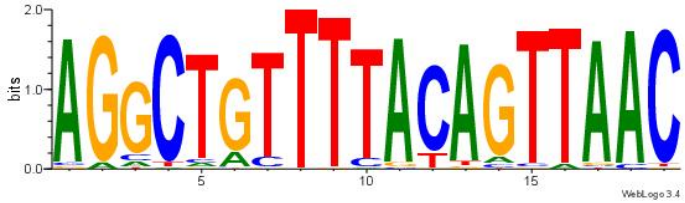

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.11953

Alignment:

```
AAAACCAGCAAGTTTTTAT
--ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

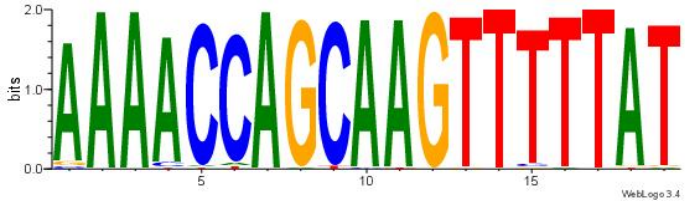

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

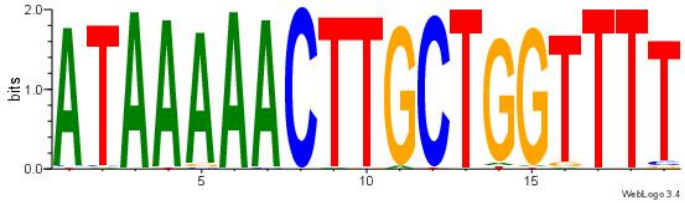

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.119627

Alignment:

```
GGATCCACTGGGTGAAGCCA
--ATCCAGTCTATCATTG--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

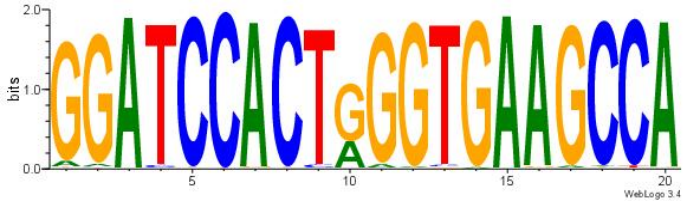

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

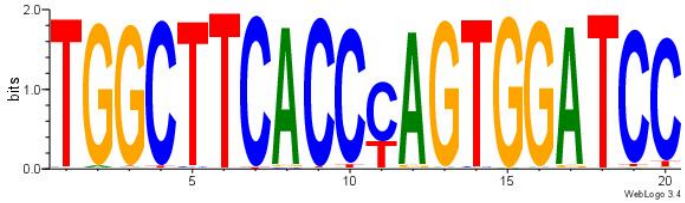

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.119759

Alignment:
GACTTCAAGAATGAAGCCG
CAATGATAGACTGGAT---

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

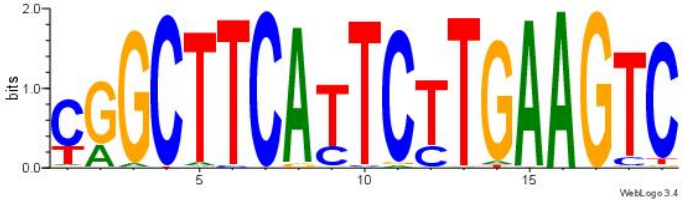

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.120504

Alignment:
AAATTAGGCCAATTAATAAC
--ATCCAGTCTATCATTG--

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

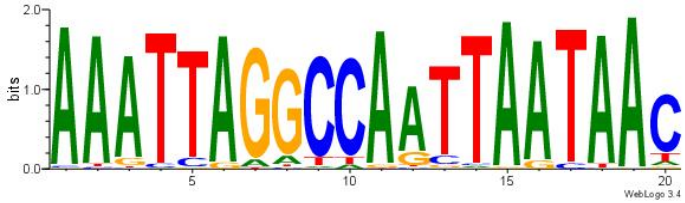

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.120534

Alignment:

```
GGTCAGGATCATCAATAT
-ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

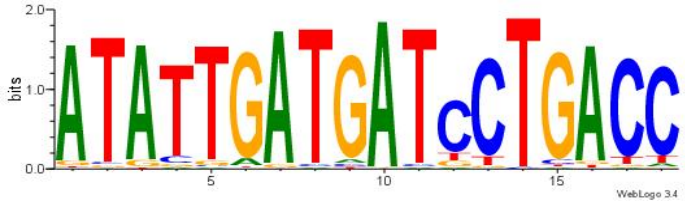

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

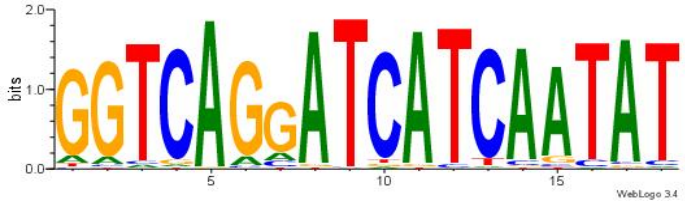

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.120748

Alignment:

```
TAAAAGACTACAWATTGGGT
----CAATGATAGACTGGAT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

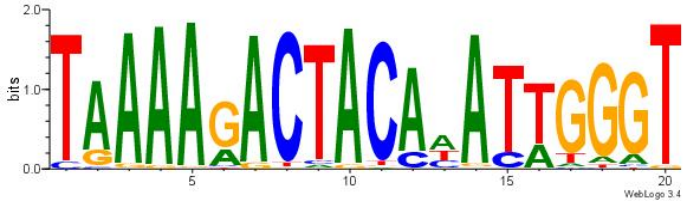

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

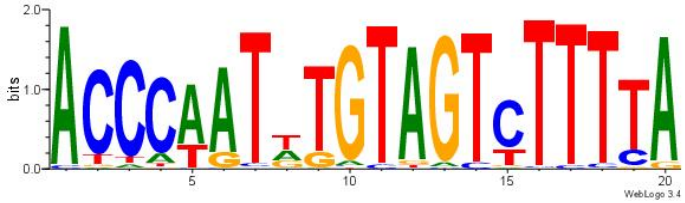

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.120888

Alignment:
CGCCCATCGTCTGGGATGT
CAATGATAGACTGGAT---

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

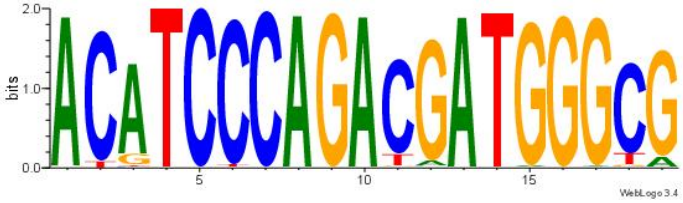

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

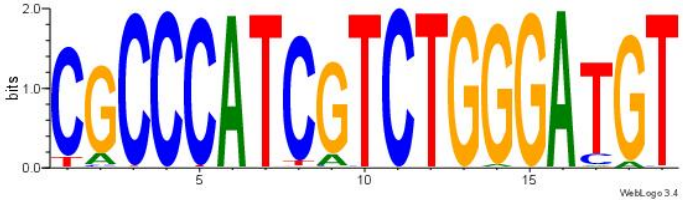

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.122648

Alignment:
ATACAATGGGGGTACAGRC
---CAATGATAGACTGGAT

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

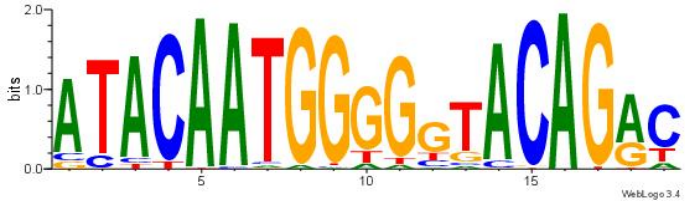

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

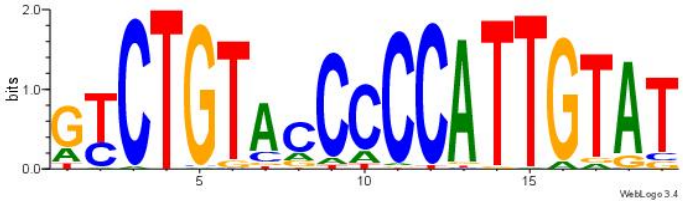

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.122764

Alignment:

```
GCACATGTAYCCYAGAACTT
-CAATGATAGACTGGAT---
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

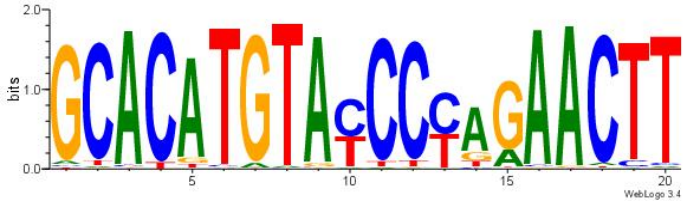

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

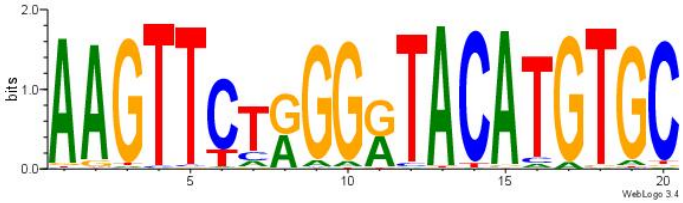

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.123258

Alignment:

```
CCTAGATTTCAGARGATGT
-CAATGATAGACTGGAT--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

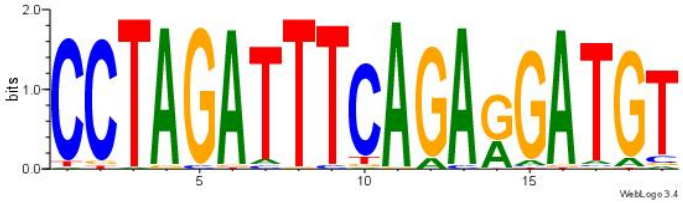

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

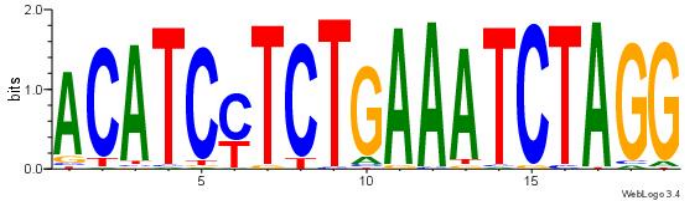

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.123431

Alignment:
ATGGAATAYTATTCAGCCAT
-CAATGATAGACTGGAT---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

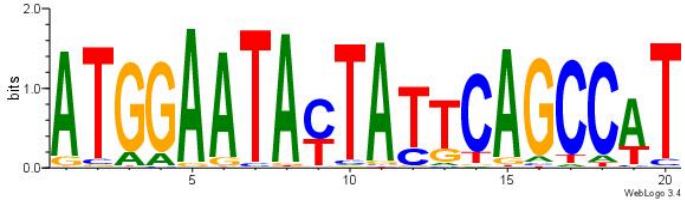

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

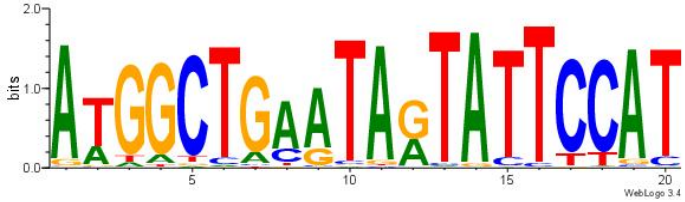

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.124405

Alignment:
TCCTATGAGAATCTAATG
--CAATGATAGACTGGAT

Original motif Consensus sequence: CATTAGATTCTCATAGGA

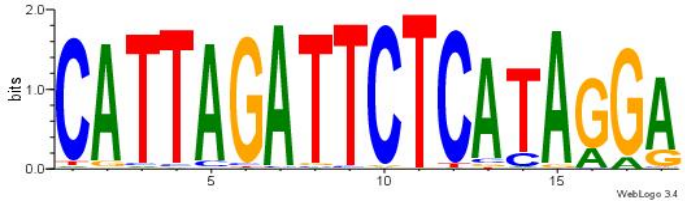

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

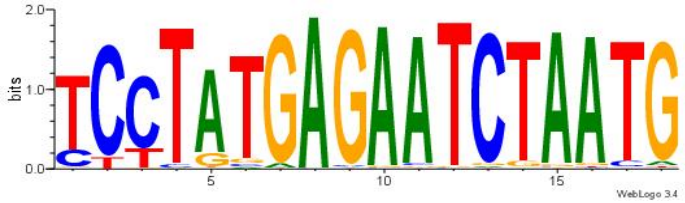

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.124492

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-ATCCAGTCTATCATTG---
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

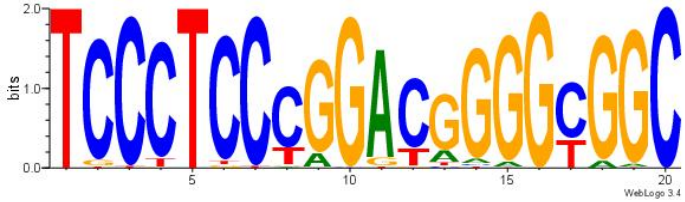

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

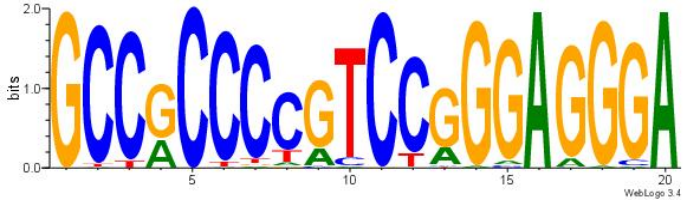

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.125849

Alignment:

```
CTCCAGKTMCATCCATGTTG
---ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

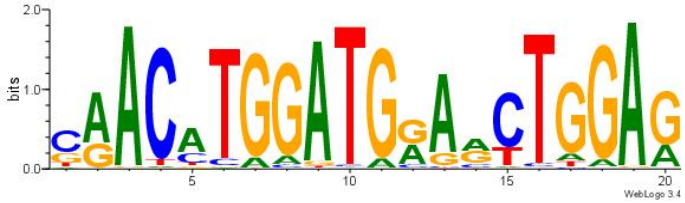

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

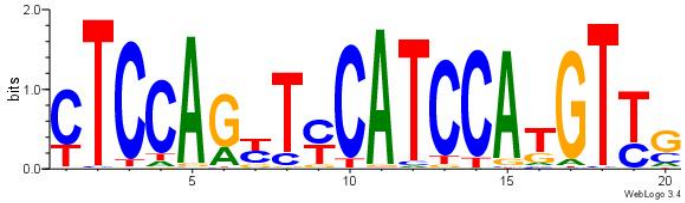

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.125987

Alignment:
TAATTTTATGTGTCAACTTG
----ATCCAGTCTATCATTG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

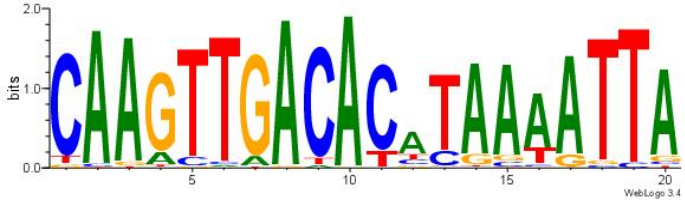

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

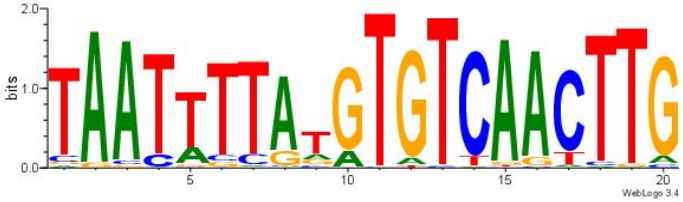

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.126399

Alignment:
GCTCCACCCAGTTCGAGCTT
-ATCCAGTCTATCATTG---

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

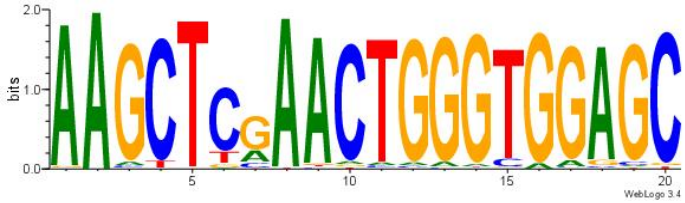

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

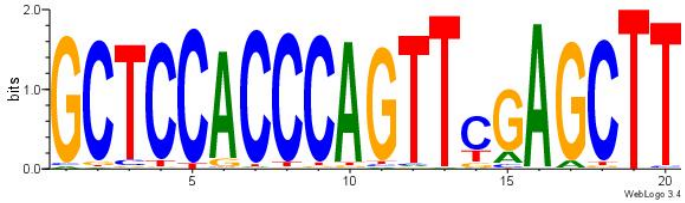

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.126933

Alignment:

```
GCCAGTCACAAAARGACAMA
--CAATGATAGACTGGAT--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

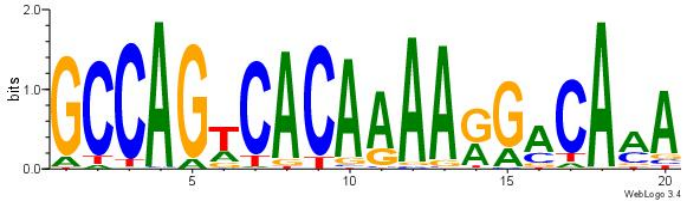

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

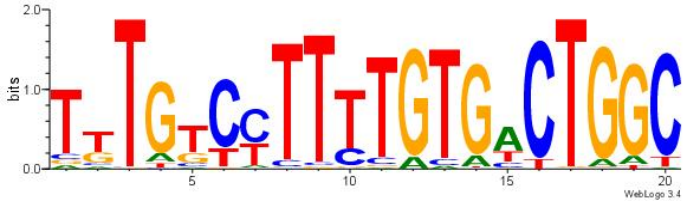

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.127239

Alignment:

```
CGCCCCGTCTGGGAAGTG
-ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

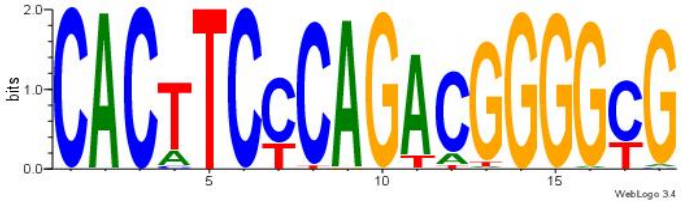

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

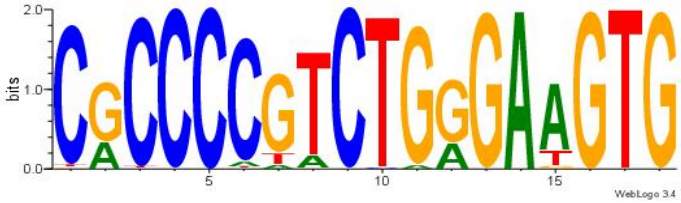

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.127353

Alignment:
AGCCYCTGGYAACCAYYAWT
--ATCCAGTCTATCATTG--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

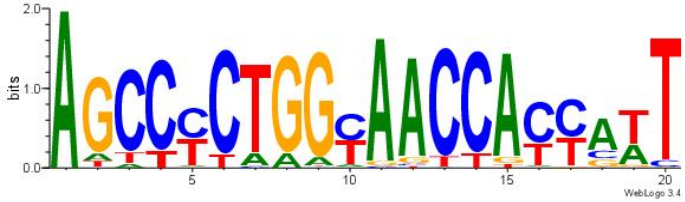

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

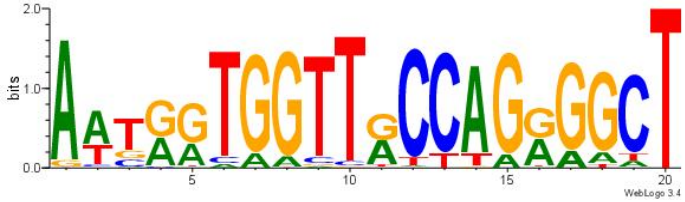

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.128279

Alignment:
GCAGCAMTATTCACAATAG
-CAATGATAGACTGGAT--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

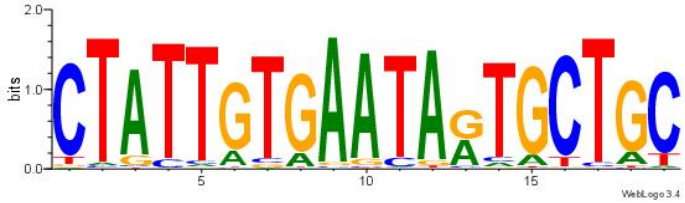

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

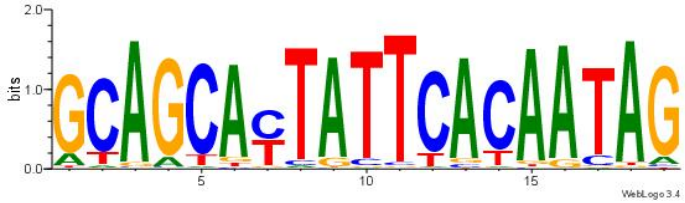

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.128529

Alignment:

```
ATGATCCAGCAATYCCACTH
---ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

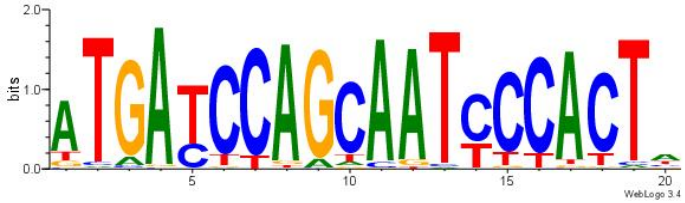

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

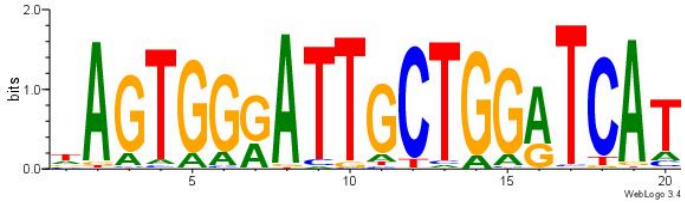

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.128606

Alignment:

```
AGCTAGAYACAGAGTGC
ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

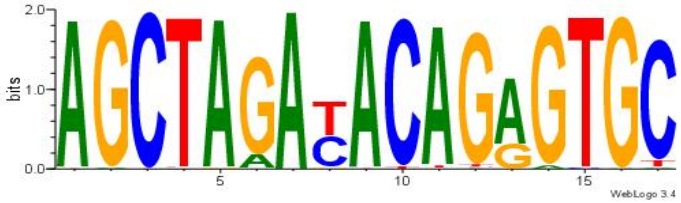

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

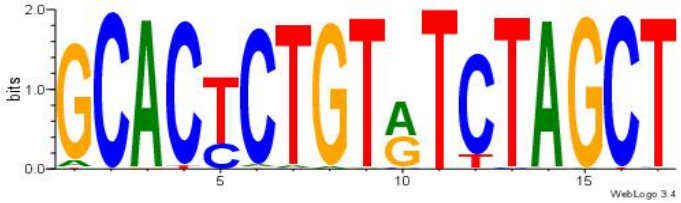

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.128675

Alignment:
GTAACACTCACCGCGARGGT
----CAATGATAGACTGGAT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

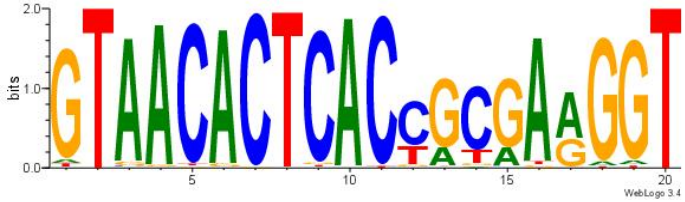

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

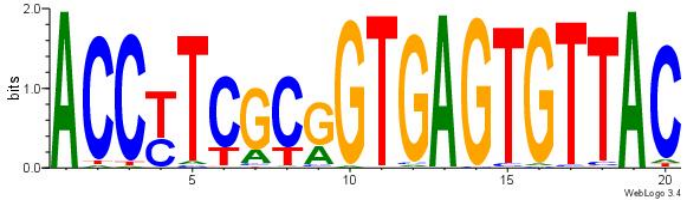

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.129435

Alignment:
ACAGGCTGTCCCAGGATTC
-CAATGATAGACTGGAT--

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

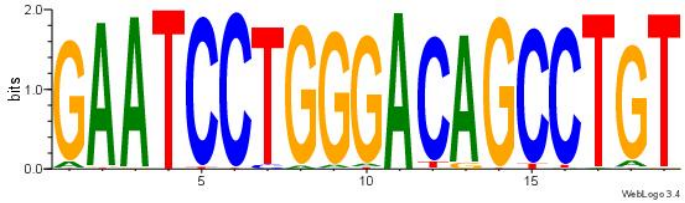

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

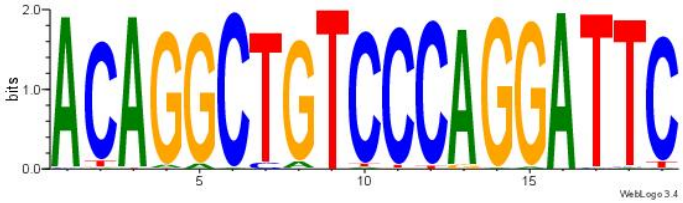

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.129842

Alignment:

```
AAAATGTGGTAYATAYAYAC
---ATCCAGTCTATCATTG-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

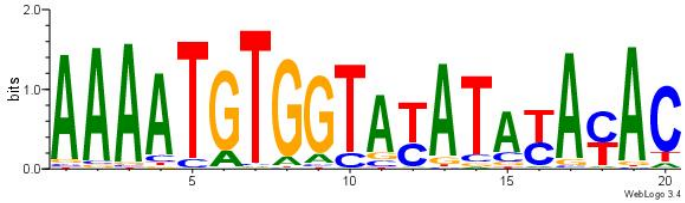

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

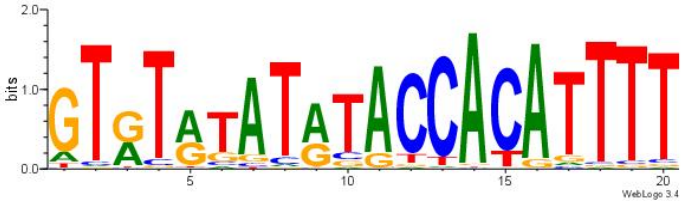

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.130014

Alignment:

```
CAAAGTCTTAACTCATT
-CAATGATAGACTGGAT
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

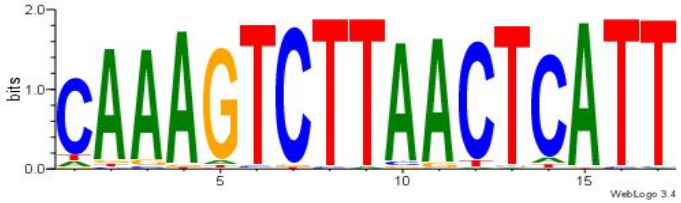

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.130273

Alignment:
AGTAGGTGCTCARTAAATRB
---ATCCAGTCTATCATTG-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

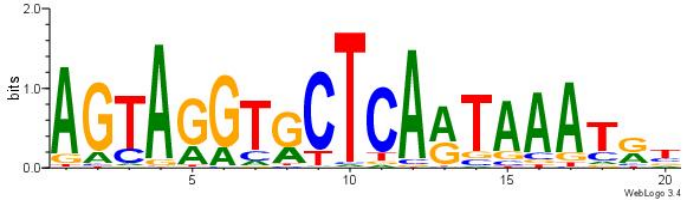

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

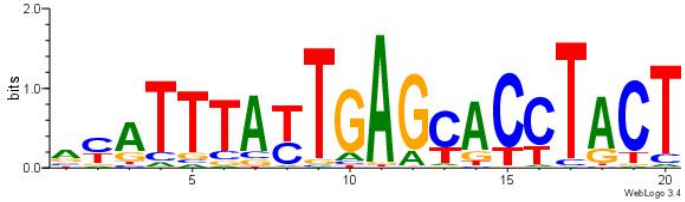

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.130738

Alignment:
ATCATTCTTATGCCTTTG
ATCCAGTCTATCATTG--

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

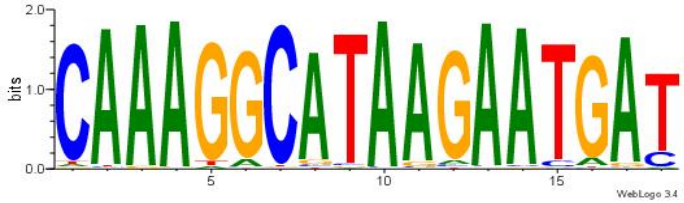

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

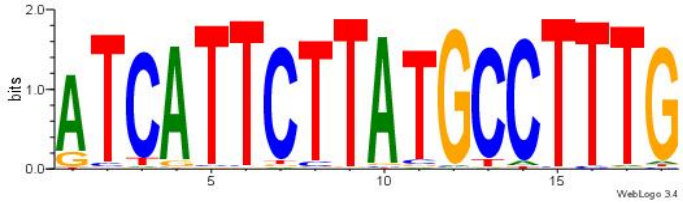

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.130775

Alignment:

```
CCCTGCTAGAACCTCCAA
CAATGATAGACTGGAT--
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

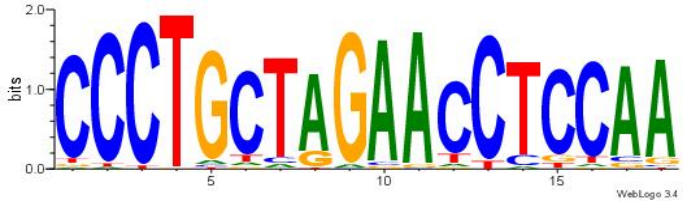

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

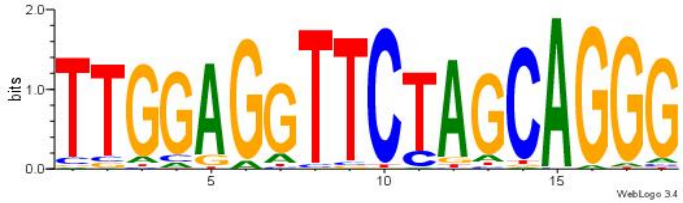

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.130969

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
----CAATGATAGACTGGAT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

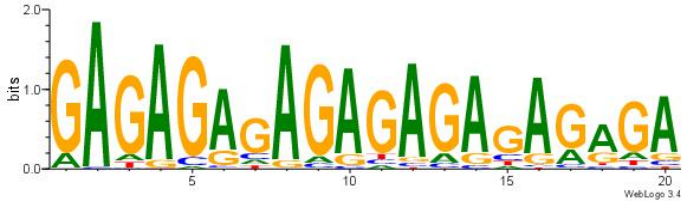

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

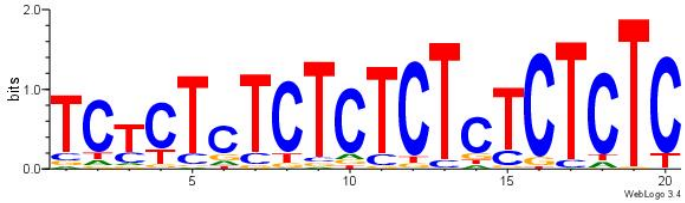

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.1312

Alignment:
GTTGGCCAGGCTGGTCT
CAATGATAGACTGGAT-

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

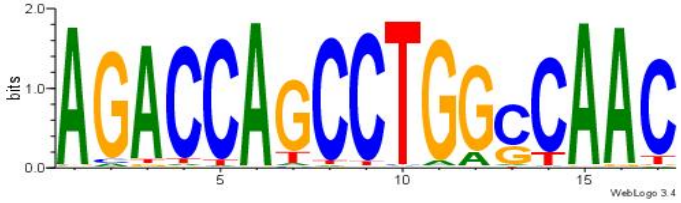

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

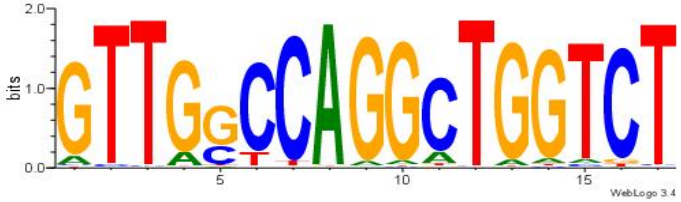

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.131285

Alignment:
CAGGTGGTKTTTGGTTACAT
-ATCCAGTCTATCATTG---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

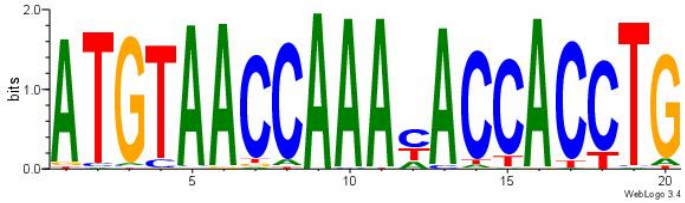

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

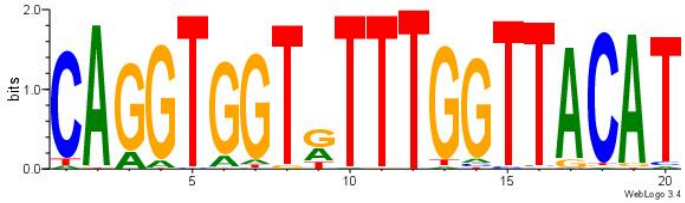

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.131418

Alignment:

```
ACAAGGCAAGTCCCTTCY
-CAATGATAGACTGGAT-
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

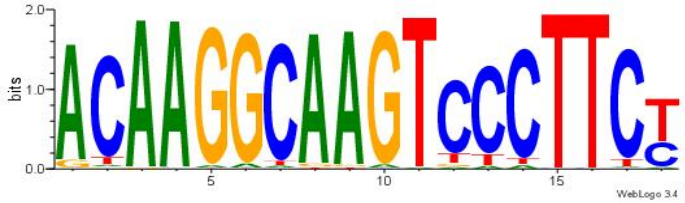

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

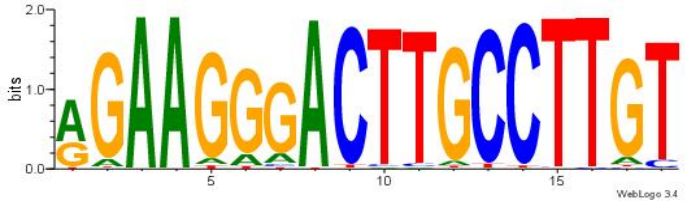

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.131503

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-ATCCAGTCTATCATTG--
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

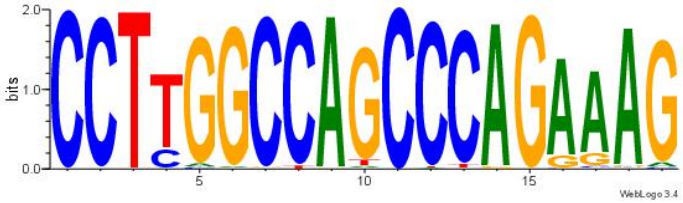

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

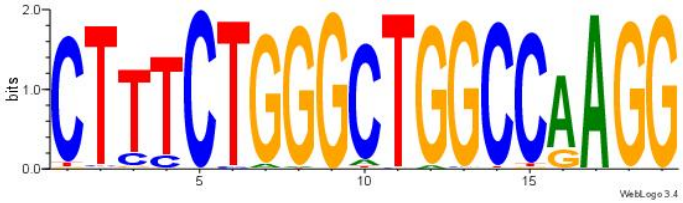

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.131809

Alignment:
GCCAATTTCTCCCATTTGGA
-ATCCAGTCTATCATTG---

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

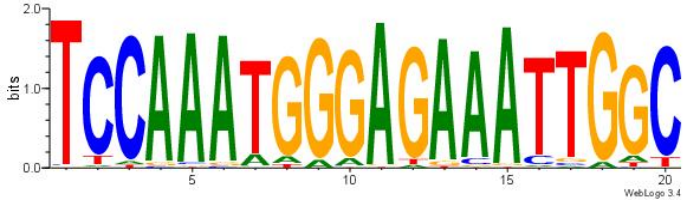

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

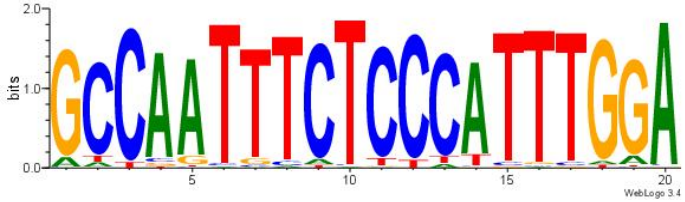

Dataset #: 1 Motif ID: 190 Motif name: Motif 190

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

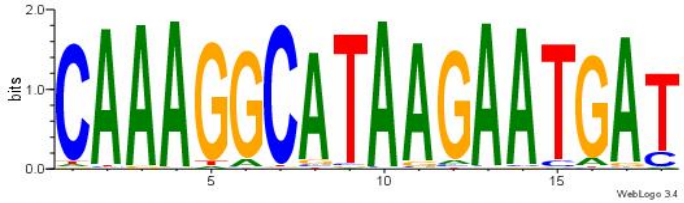

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

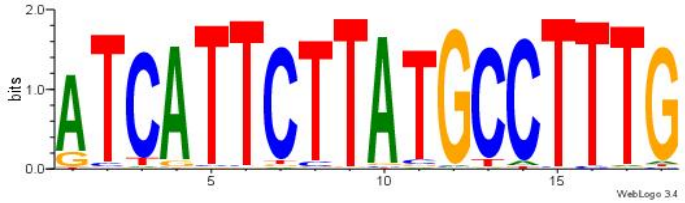

Best Matches for Motif ID 190 (Highest to Lowest)

Dataset #: 1
Motif ID: 194
Motif name: Motif 194

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0879984

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CAAAGGCATAAGAATGAT--
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

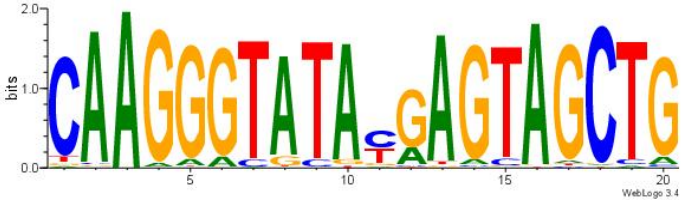

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

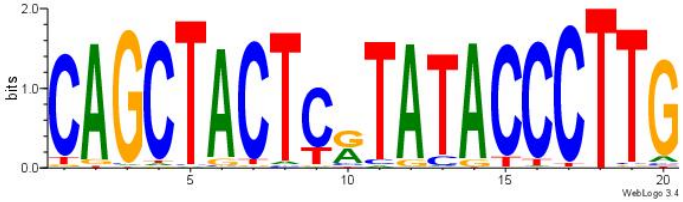

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.101423

Alignment:
CTCAGTGTTAATCTCCTGTC
ATCATTCTTATGCCTTTG--

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

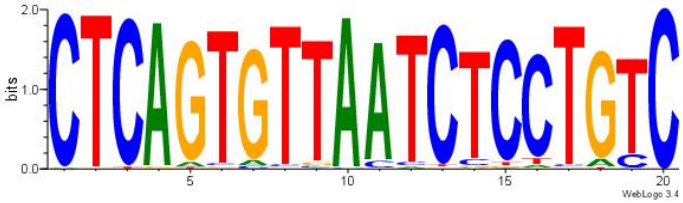

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

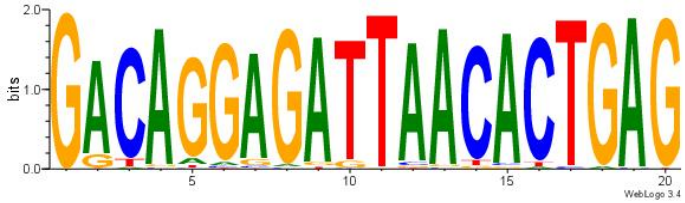

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.110461

Alignment:
TCCAAATGGGAGAAATTGGC
--CAAAGGCATAAGAATGAT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

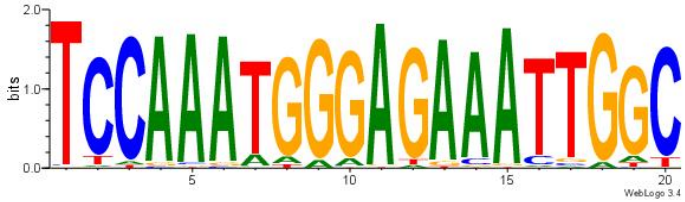

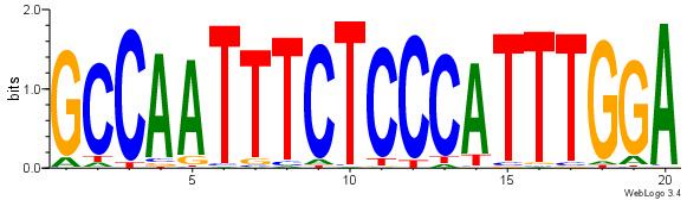

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.111473

Alignment:

```
GCCGTTTKTTAAGCCCGTY
ATCATTCTTATGCCTTTG-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

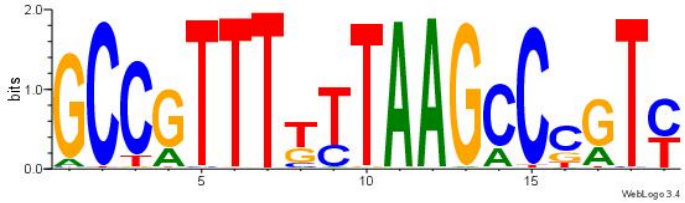

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

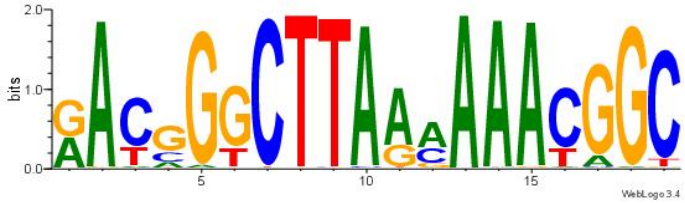

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.114401

Alignment:

```
AAATTAGGCCAATTAATAAC
--CAAAGGCATAAGAATGAT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

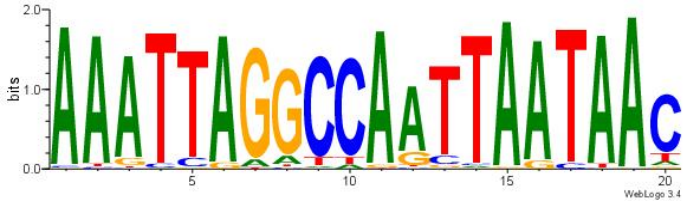

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.114781

Alignment:
ACCCAATWTGTAGTCTTTTA
-ATCATTCTTATGCCTTTG-

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

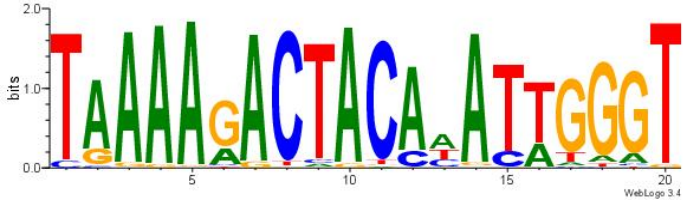

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

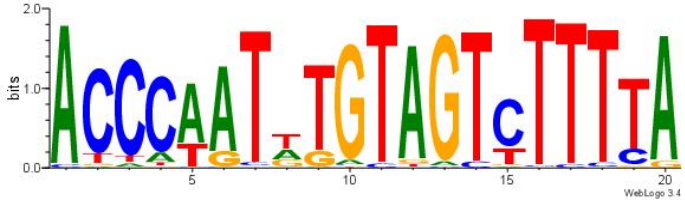

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.115225

Alignment:
GGGTCAGGGAGTTCCCTTTC
--ATCATTCTTATGCCTTTG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

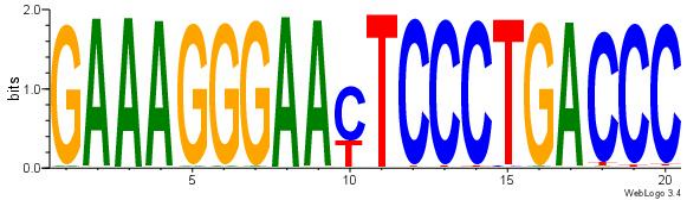

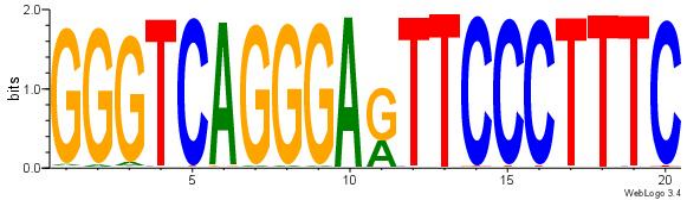

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.116386

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
CAAAGGCATAAGAATGAT--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

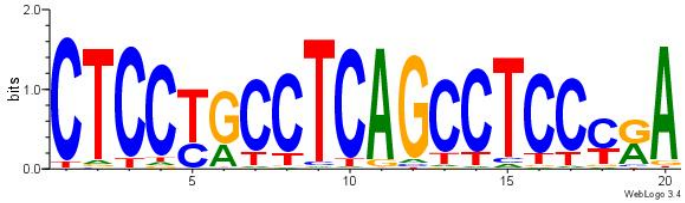

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

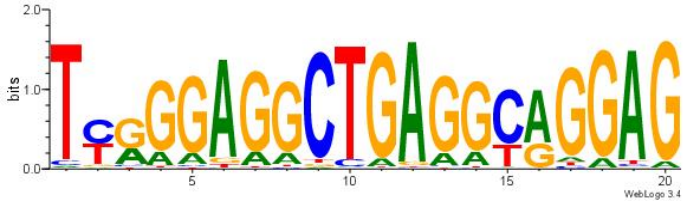

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.116477

Alignment:

```
AATGAKATCATGTCYTTTGC
-ATCATTCTTATGCCTTTG-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

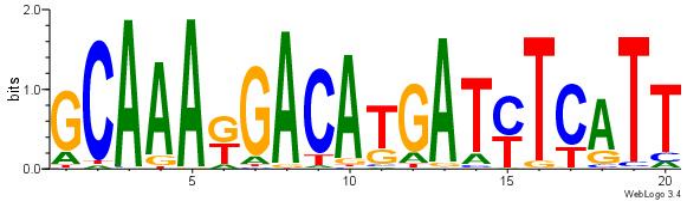

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

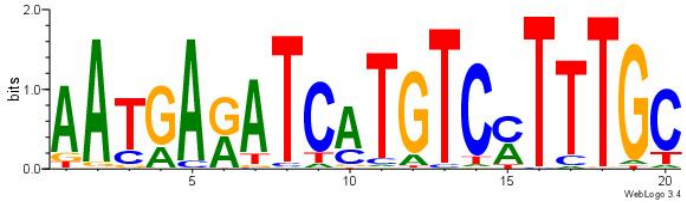

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.118427

Alignment:
GCCAGTCACAAAARGACAMA
--CAAAGGCATAAGAATGAT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

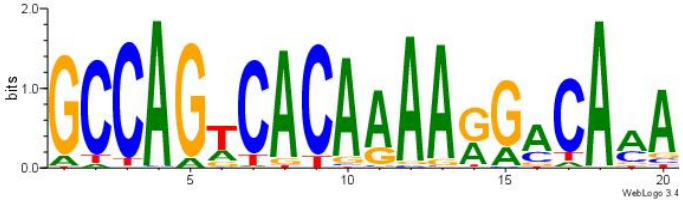

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

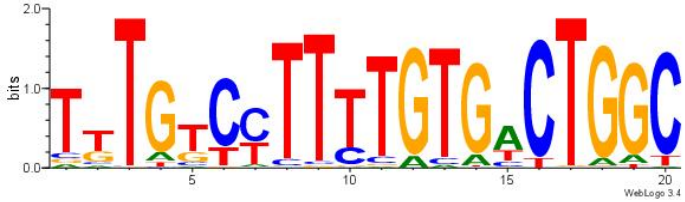

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.123128

Alignment:
CCCYAATACTGCGCTTTTC
-ATCATTCTTATGCCTTTG

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence:
CCCYAATACTGCGCTTTTC

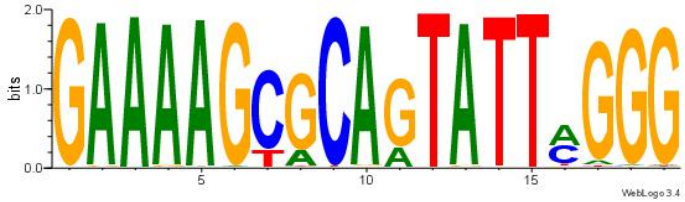

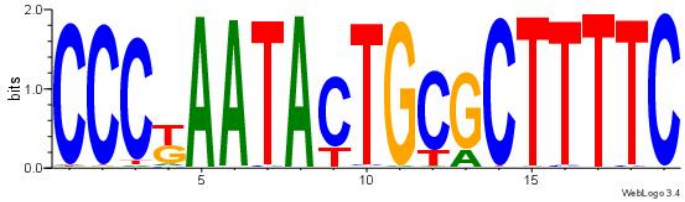

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.124917

Alignment:

```
TAATTTTATGTGTCAACTTG
--ATCATTCTTATGCCTTTG
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

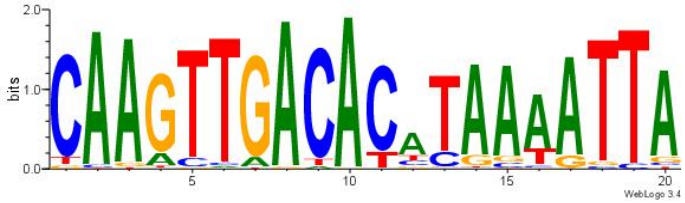

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

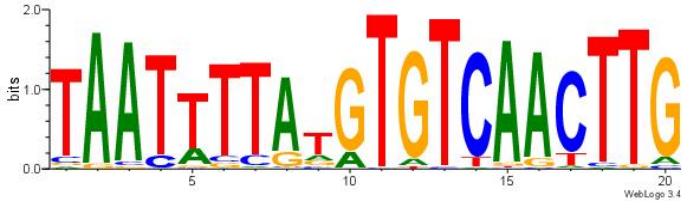

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.12497

Alignment:

```
CMCAGTTCACAATAGGGTT
-CAAAGGCATAAGAATGAT
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

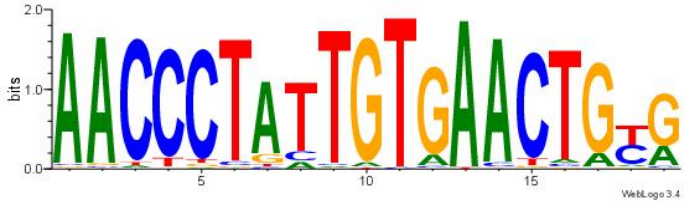

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

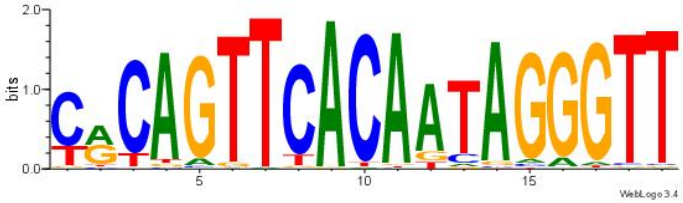

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.125541

Alignment:
ACACATCACAAAGCAGTTTC
-ATCATTCTTATGCCTTTG-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

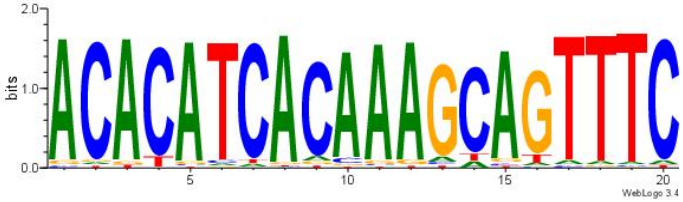

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

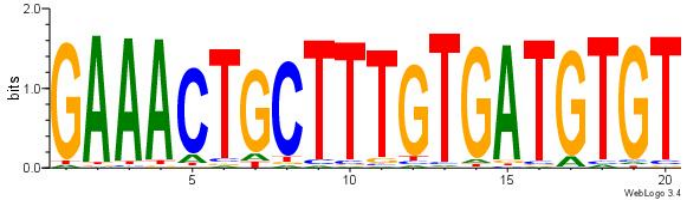

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.127009

Alignment:
MGAAGGGACTTGCCTTGT
ATCATTCTTATGCCTTTG

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

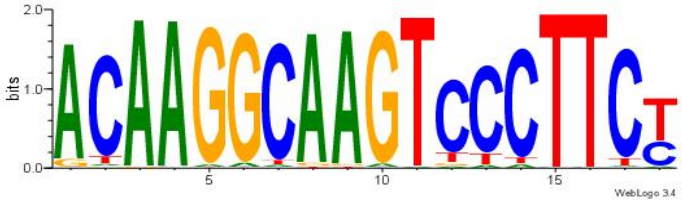

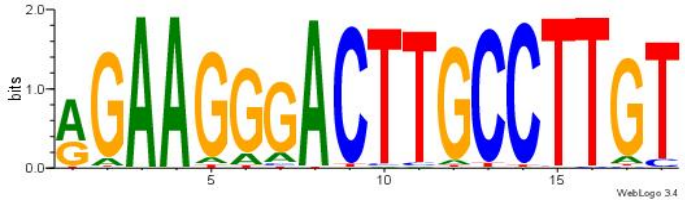

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.127326

Alignment:

```
AGTAGGTGCTCARTAAATRB
--CAAAGGCATAAGAATGAT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

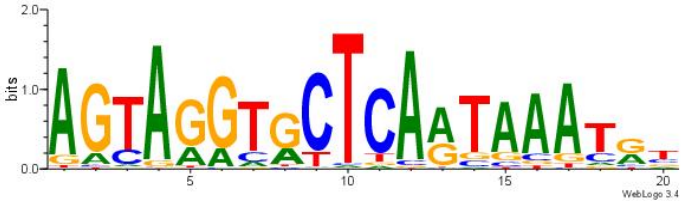

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

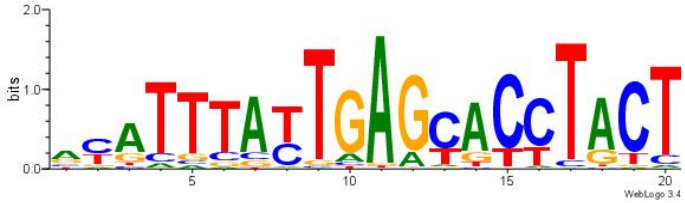

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.127435

Alignment:

```
AAAAGTCCACAGTCCAAAGT
CAAAGGCATAAGAATGAT--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

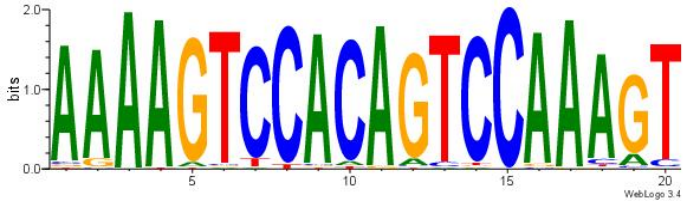

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

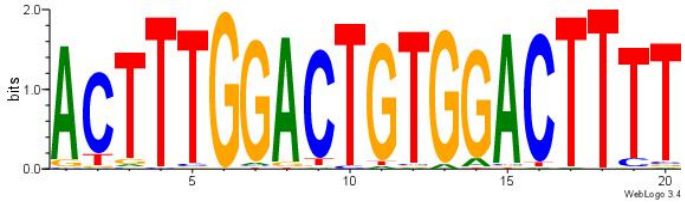

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.128056

Alignment:
CCACCACAGCTCAAGGAGGC
CAAAGGCATAAGAATGAT--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

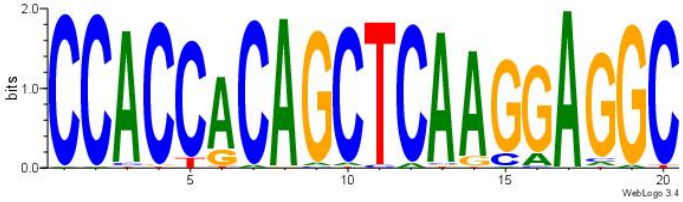

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

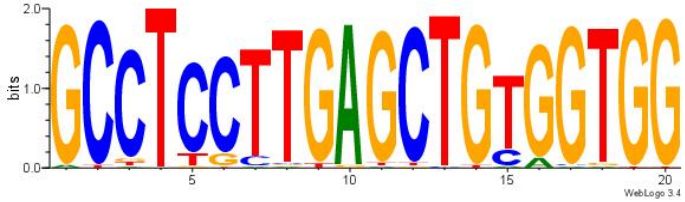

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.128452

Alignment:
AGGTCCTTCAGGAGGTATTC
ATCATTCTTATGCCTTTG--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

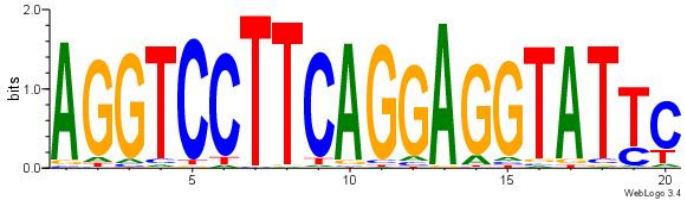

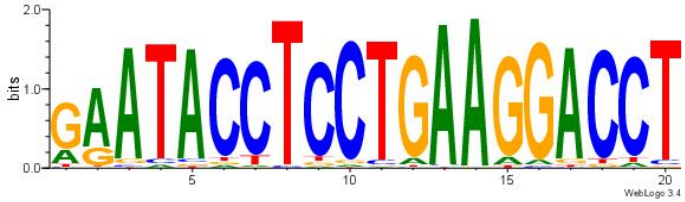

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.129391

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--ATCATTCTTATGCCTTTG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

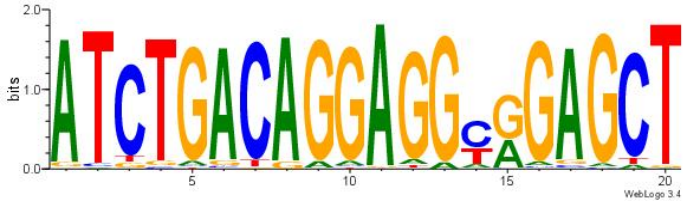

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

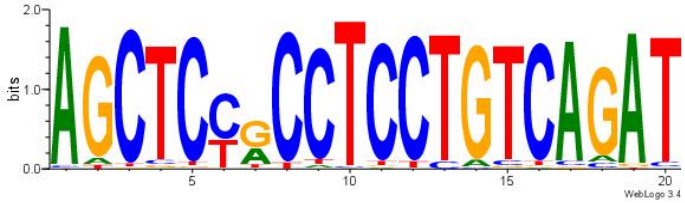

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.129579

Alignment:

```
MTCCTCCAGACCCCAGAATG
ATCATTCTTATGCCTTTG--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

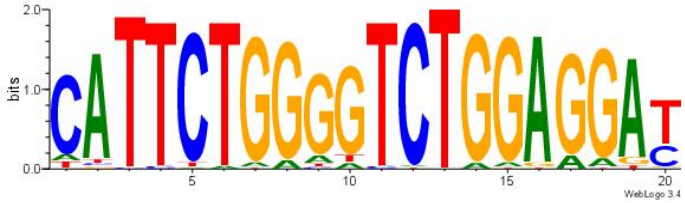

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

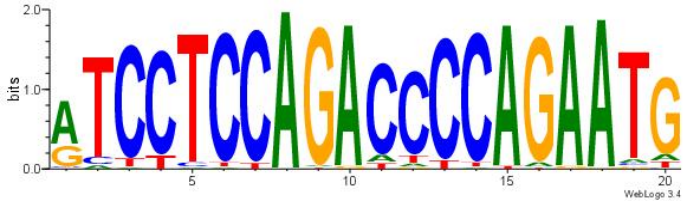

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.13087

Alignment:
CAACATGGATGRARCTGGAG
-CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

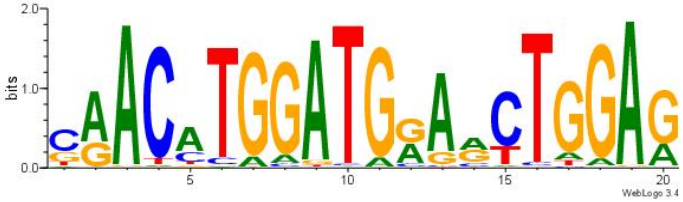

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

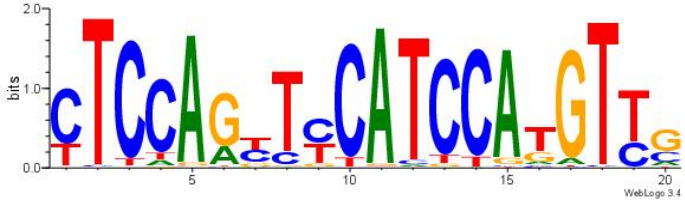

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.130987

Alignment:
GTKTMTATMTACCACATTTT
--ATCATTCTTATGCCTTTG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

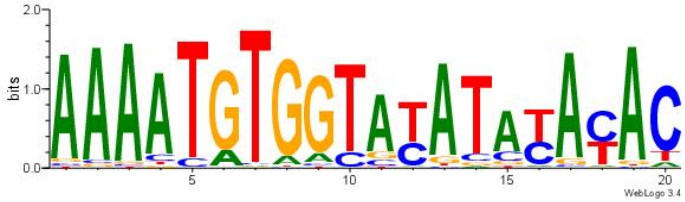

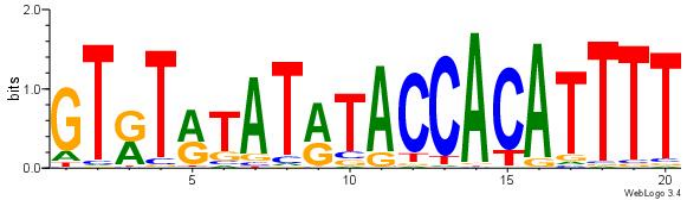

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.131482

Alignment:

```
CAAGCGCCAGCTCATGTC
CAAAGGCATAAGAATGAT
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

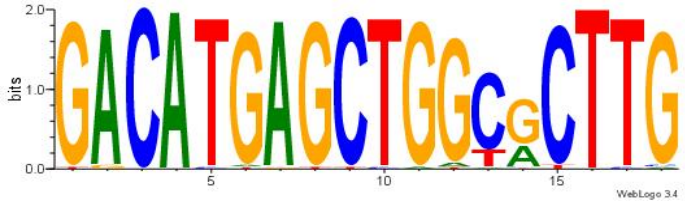

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

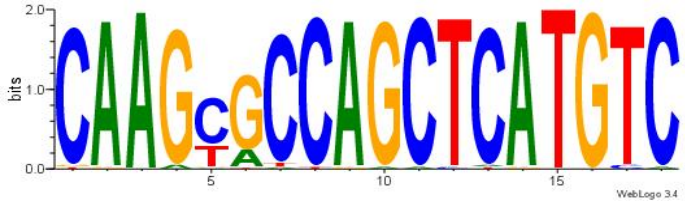

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.131521

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
ATCATTCTTATGCCTTTG--
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

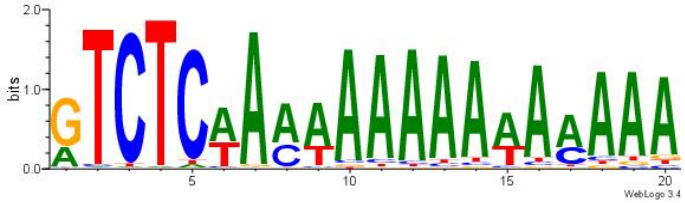

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

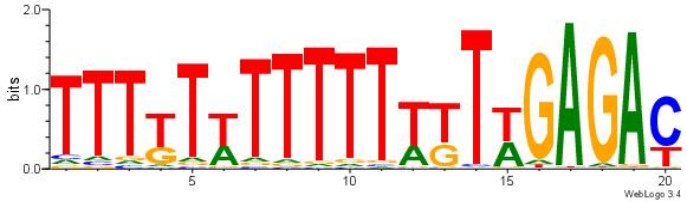

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.133243

Alignment:
AAGCAGGGCGAGGCATTGCC
-ATCATTCTTATGCCTTTG-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

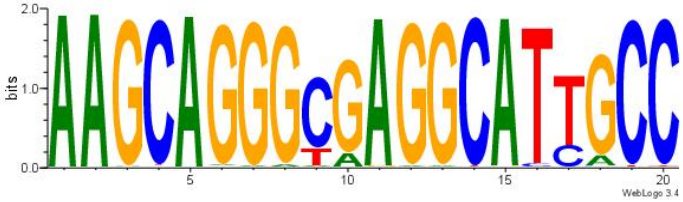

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

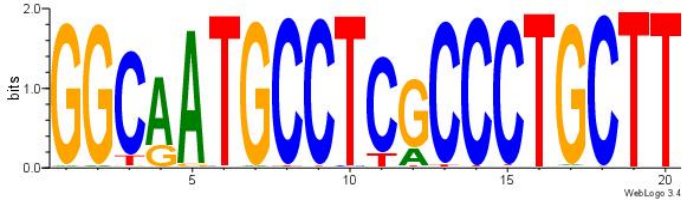

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.133687

Alignment:
ATAGGAATGCTTGTGATTTT
--ATCATTCTTATGCCTTTG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

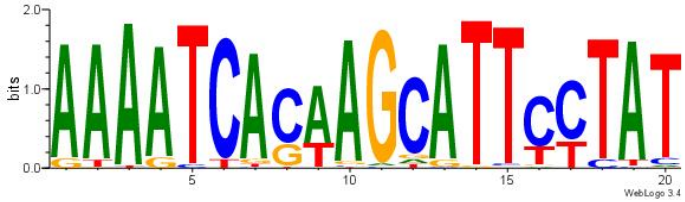

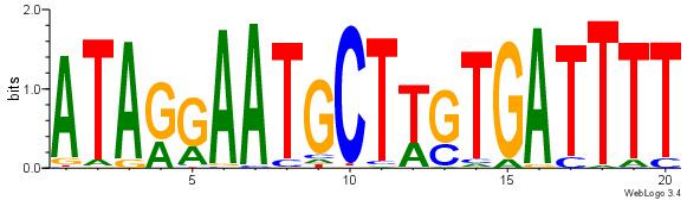

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.134762

Alignment:
CATTTCCAWCTGAGGTAC
CAAAGGCATAAGAATGAT

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

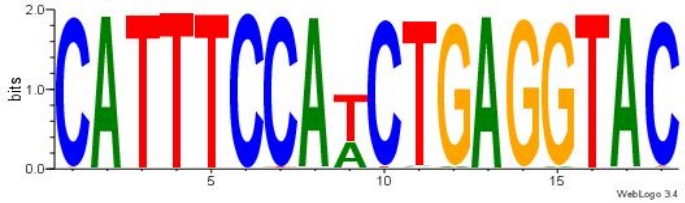

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

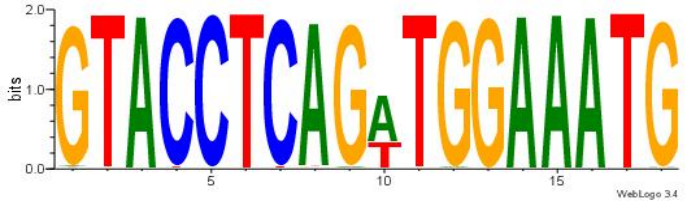

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.135154

Alignment:

```
GGATTTMKGACTTGCATGGG
--ATCATTCTTATGCCTTTG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

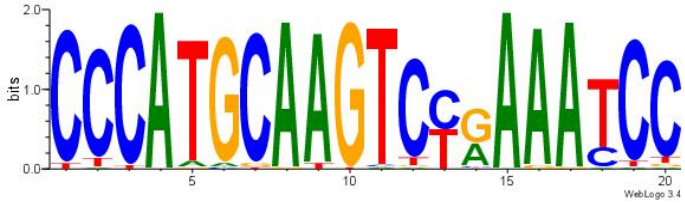

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

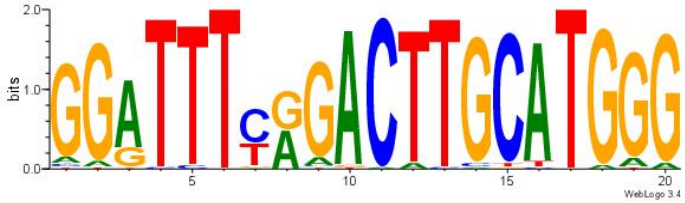

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.135305

Alignment:
ATTCAASATGAGATTTGGG
ATCATTCTTATGCCTTTG-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

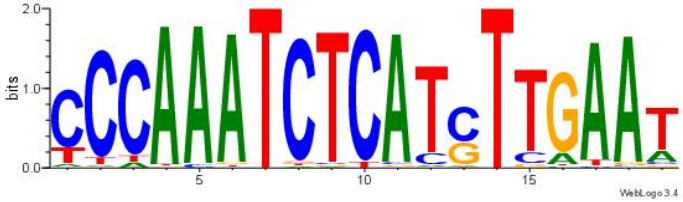

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

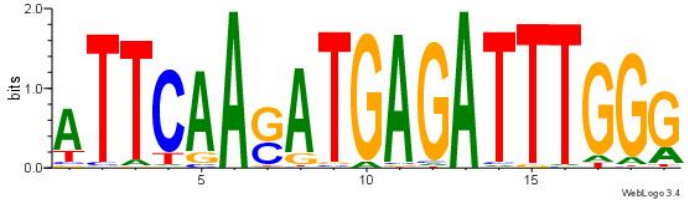

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.135693

Alignment:
MGGGATATAATCTCCTGGTG
ATCATTCTTATGCCTTTG--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

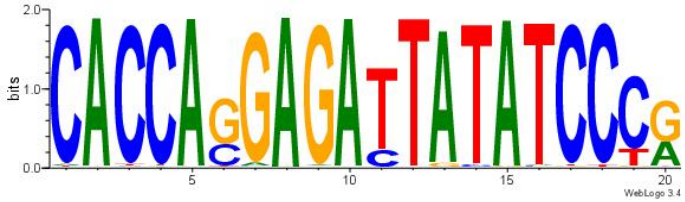

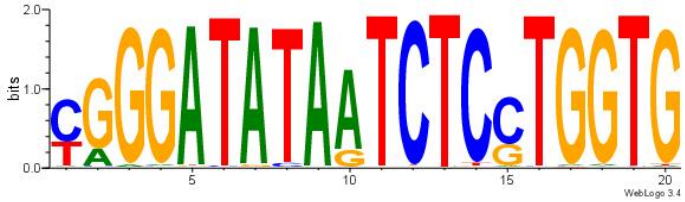

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.13602

Alignment:

```
ATGGCCTATGACYGSTTTG
-ATCATTCTTATGCCTTTG
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

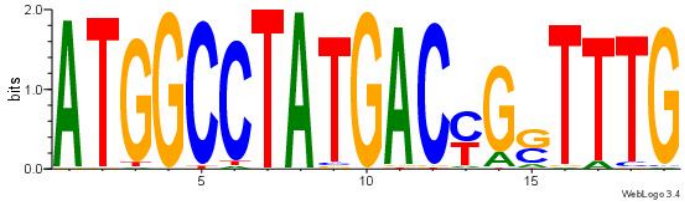

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

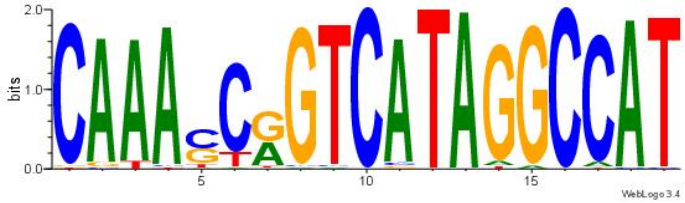

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.136388

Alignment:

```
AGGTTTGTTACATAGGTAWA
--ATCATTCTTATGCCTTTG
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

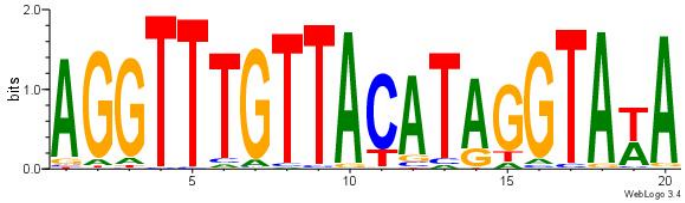

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

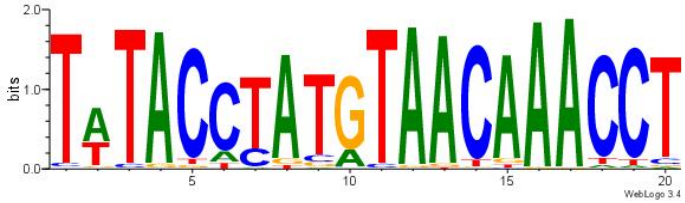

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.13639

Alignment:
CCCGAAGCTGCRYRCTCGGT
--CAAAGGCATAAGAATGAT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

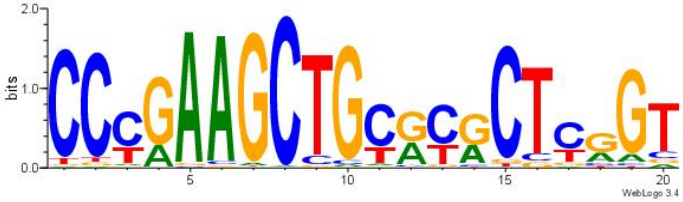

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

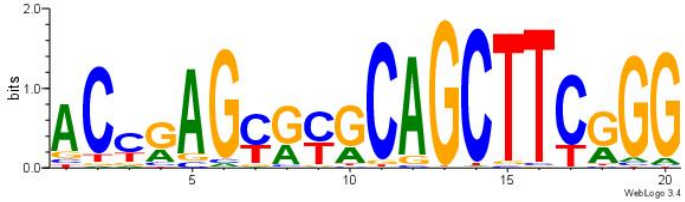

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.136519

Alignment:
CCTAGATTTCAGARGATGT
CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

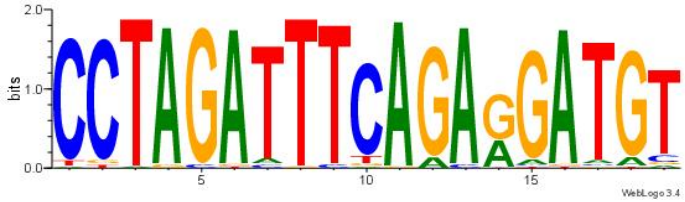

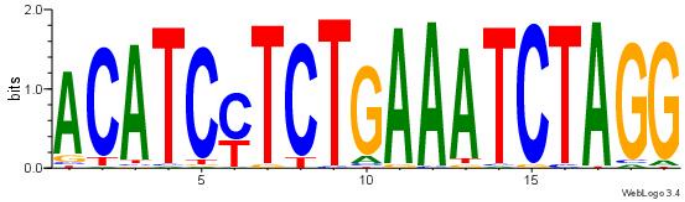

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.138696

Alignment:

```
GCACATGTAYCCYAGAACTT
-CAAAGGCATAAGAATGAT-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

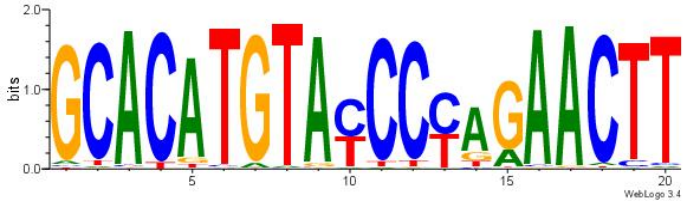

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

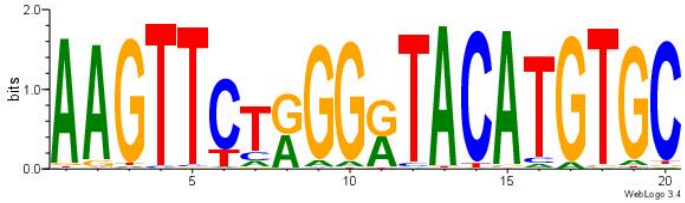

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.139268

Alignment:

```
GTAACACTCACCGCGARGGT
--CAAAGGCATAAGAATGAT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

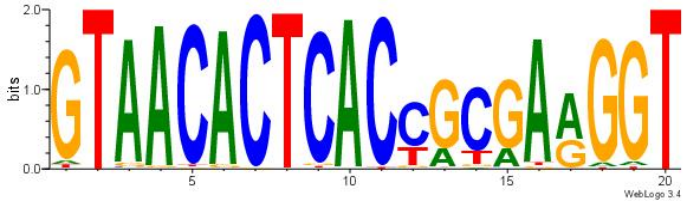

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

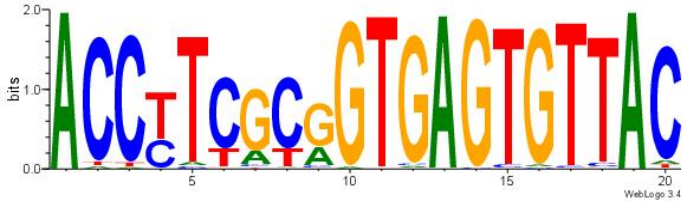

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.140073

Alignment:
AAGAGGTTTAATTGRCTCA
CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

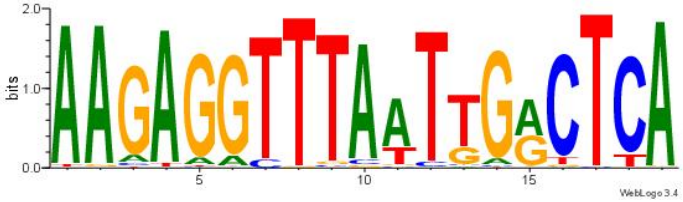

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

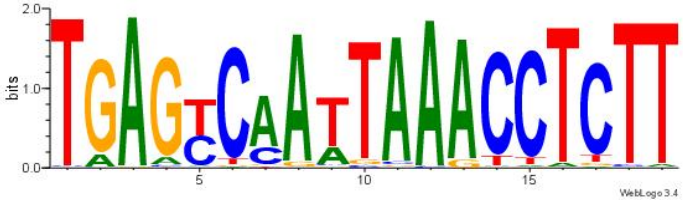

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.140138

Alignment:
ATTGATMKCCAGGGTTGATT
-CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

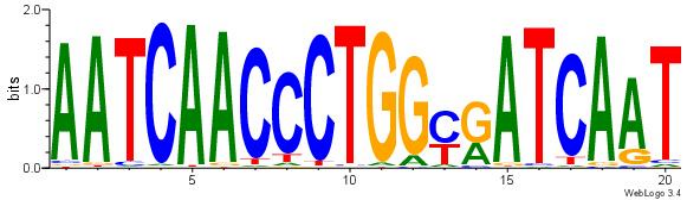

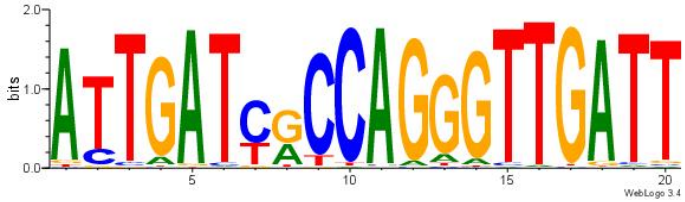

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.140556

Alignment:
GGTCAGGATCATCAATAT
CAAAGGCATAAGAATGAT

Original motif Consensus sequence: ATATTGATGATCCTGACC

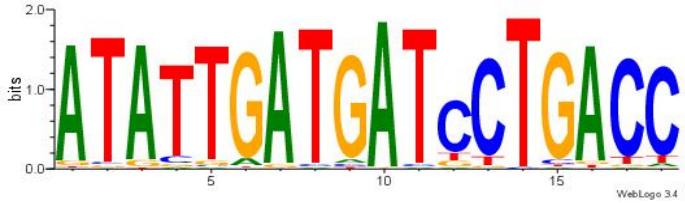

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

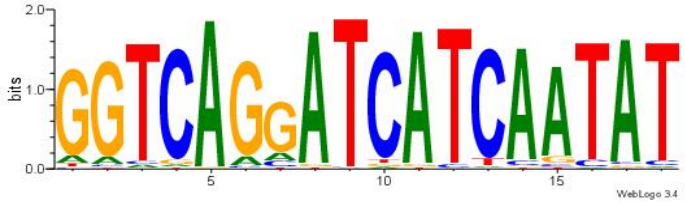

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.140561

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
CAAAGGCATAAGAATGAT--
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

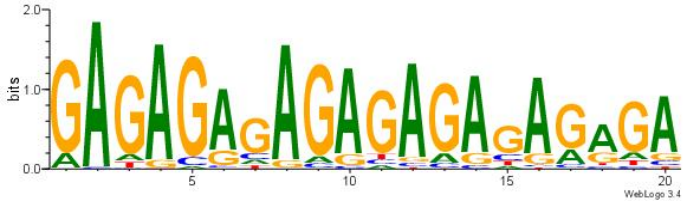

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

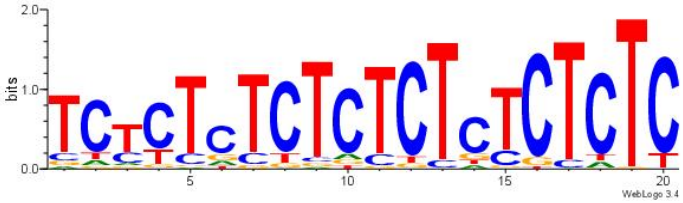

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.140732

Alignment:
CTGGGCTCCTGAGTCTGGTG
ATCATTCTTATGCCTTTG--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

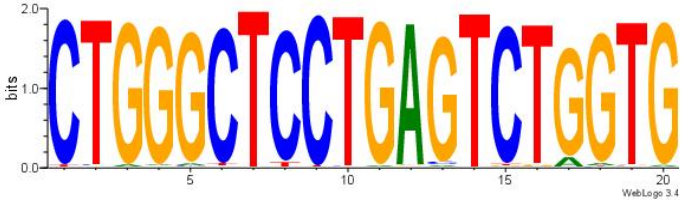

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

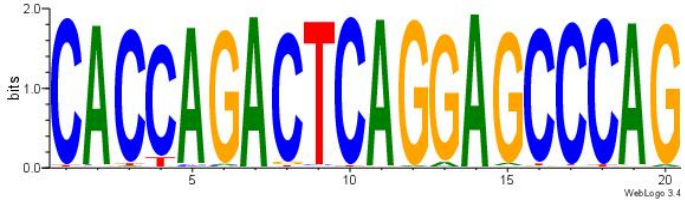

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.141266

Alignment:
GTGGCCCTCTTCTCACAGCT
--ATCATTCTTATGCCTTTG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

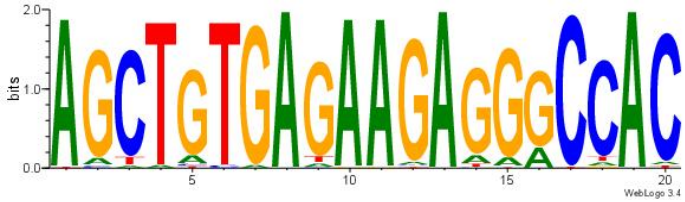

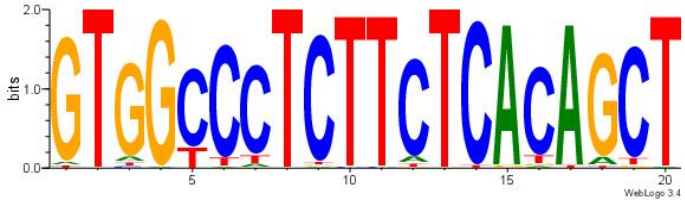

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.141628

Alignment:
TGTGTGTGTGTKTGTGTGT
ATCATTCTTATGCCTTTG-

Original motif Consensus sequence: ACACACAYACACACACACA

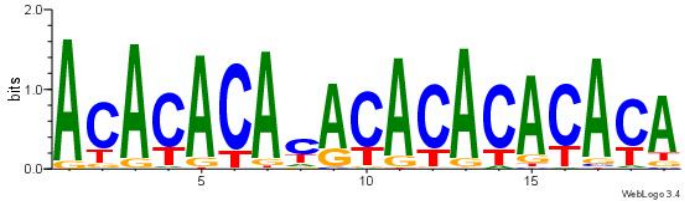

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

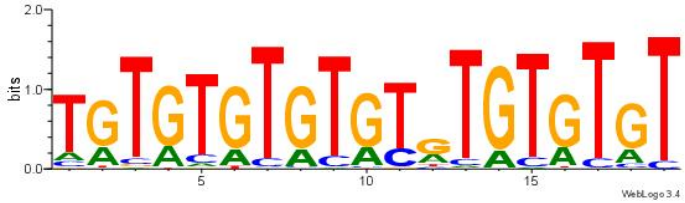

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.142973

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
ATCATTCTTATGCCTTTG--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

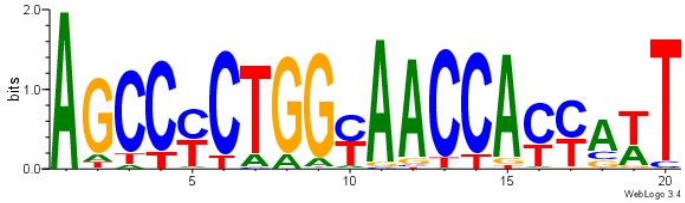

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

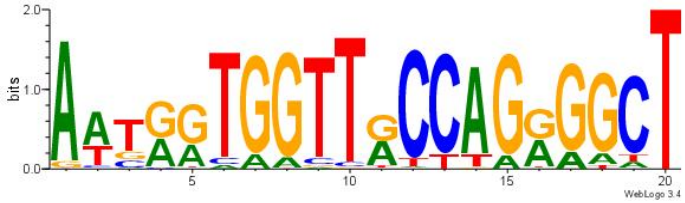

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.143088

Alignment:
ACATCCCAGACGATGGGCG
CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

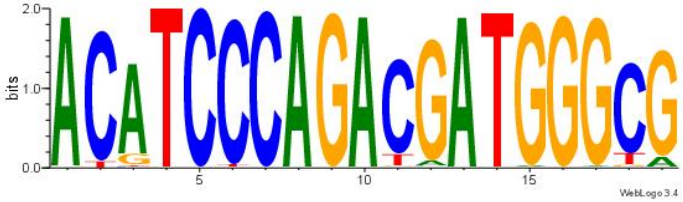

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

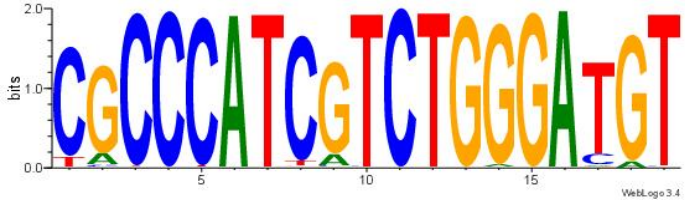

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.143256

Alignment:
GTTGTGAGGATTAAATGAG
CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

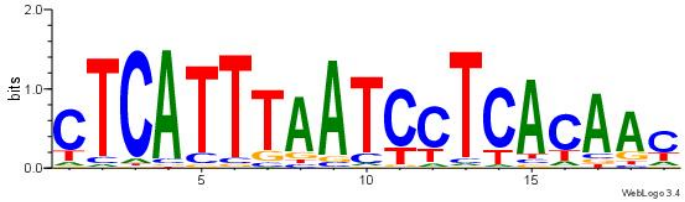

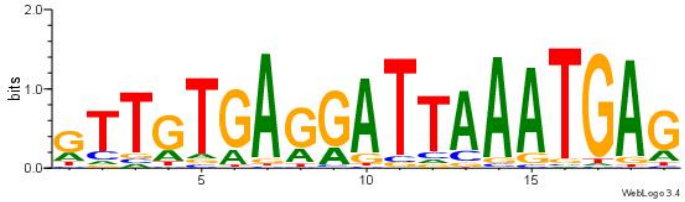

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.143909

Alignment:

```
ATAAAAACTTGCTGGTTTT
-ATCATTCTTATGCCTTTG
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

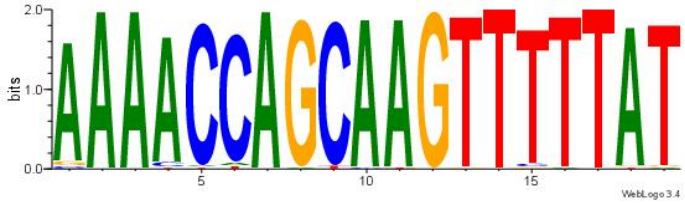

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

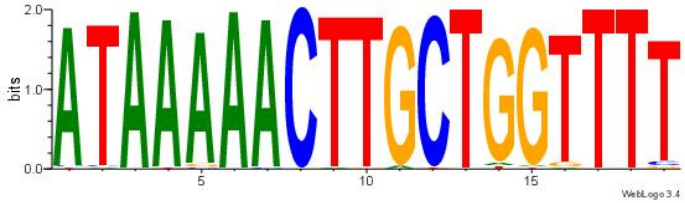

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.144062

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
--CAAAGGCATAAGAATGAT
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

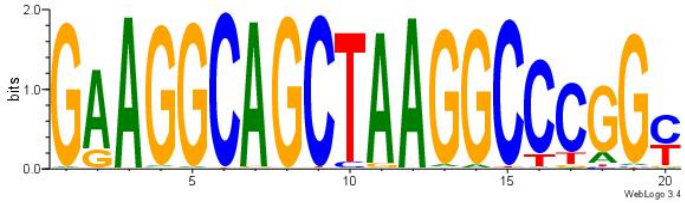

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

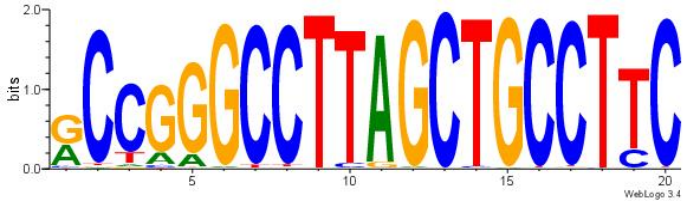

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.144894

Alignment:
GCCAGGCAGAGRGKCTCCT
CAAAGGCATAAGAATGAT-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

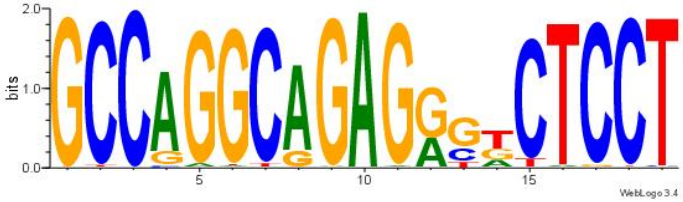

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

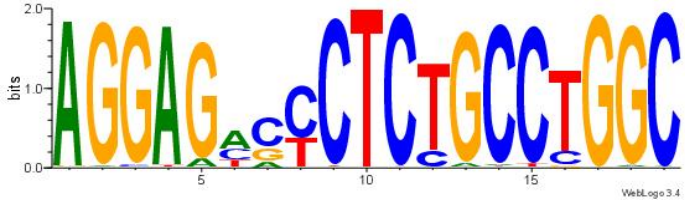

Dataset #: 1 Motif ID: 191 Motif name: Motif 191

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

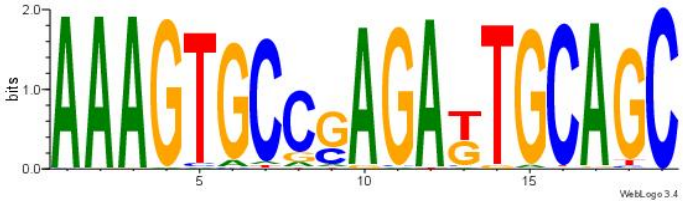

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

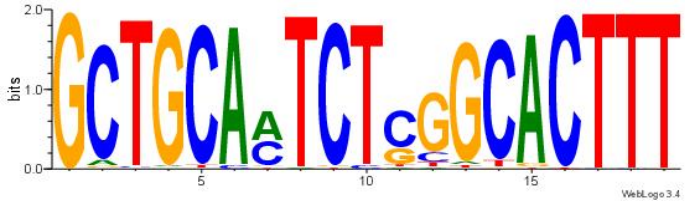

Best Matches for Motif ID 191 (Highest to Lowest)

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.105699

Alignment:

```
TACCTGAGACTGGGTAATTT
-GCTGCARTCTCGGCACTTT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

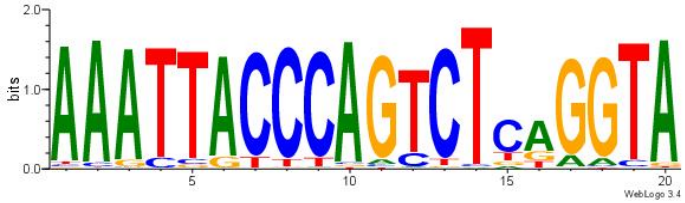

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

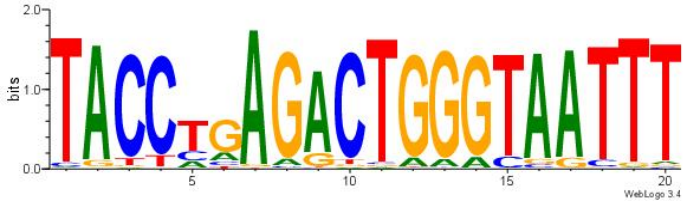

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.106747

Alignment:

ACTTTGGACTGTGGACTTTT
GCTGCARTCTCGGCACTTT-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

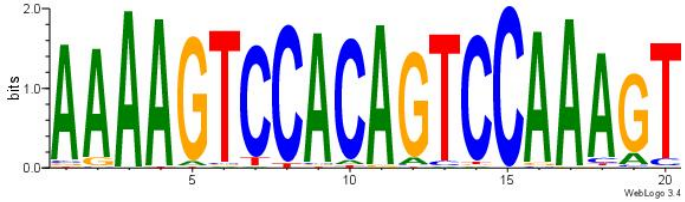

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

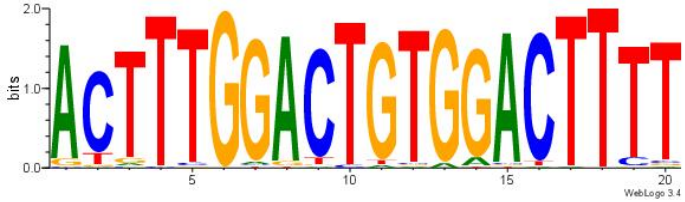

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.111752

Alignment:
GCAGCAMTATTCACAATAG
GCTGCARTCTCGGCACTTT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

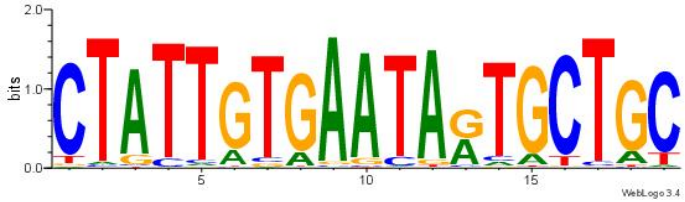

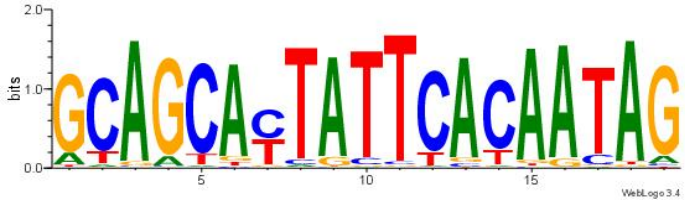

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.11316

Alignment:

```
GCCTCTCCCTCCACACCTCC
-GCTGCARTCTCGGCACTTT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

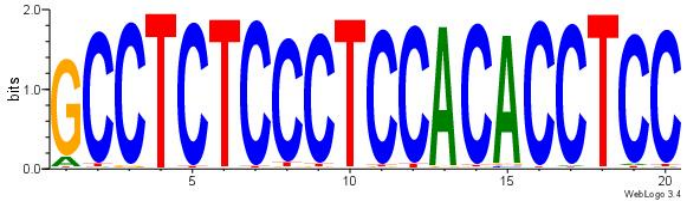

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

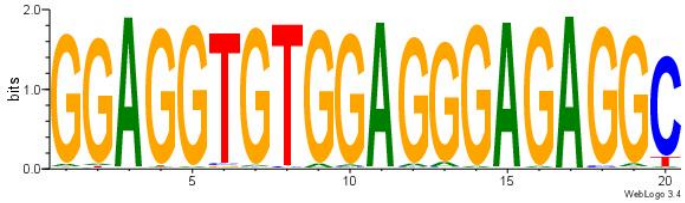

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.114153

Alignment:

```
AGTGACCCGATTTTCCAGGT
-AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

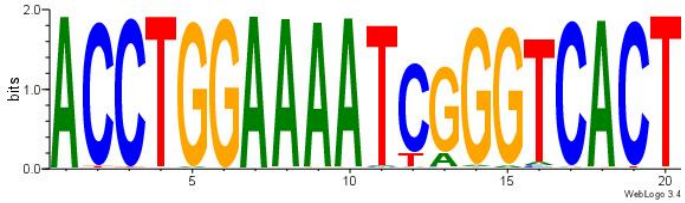

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

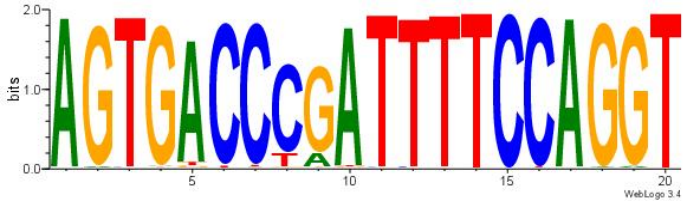

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.120688

Alignment:
AGCTGTGAGAAGAGGGCCAC
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

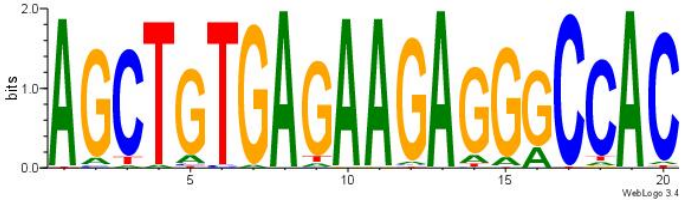

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

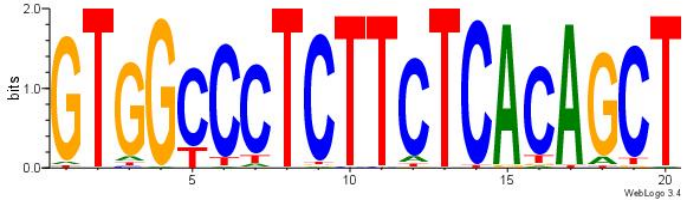

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.125797

Alignment:
ATAGGAATGCTTGTGATTTT
-GCTGCARTCTCGGCACTTT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

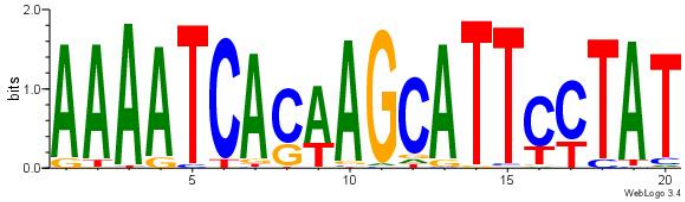

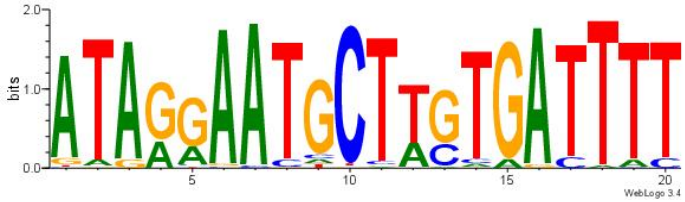

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.128969

Alignment:

```
GCAAAKGACATGATYTCATT
-AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

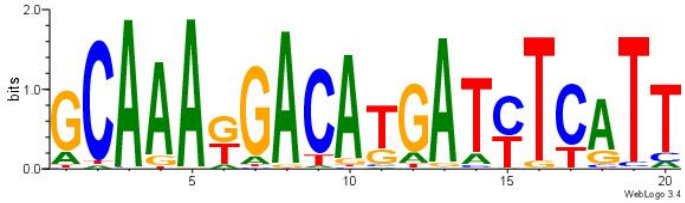

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

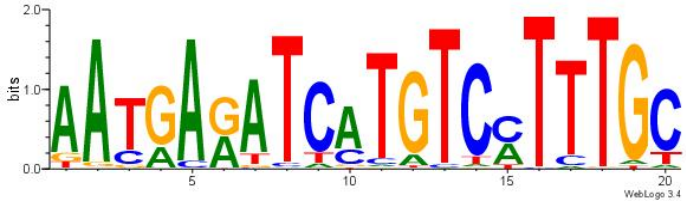

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129051

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

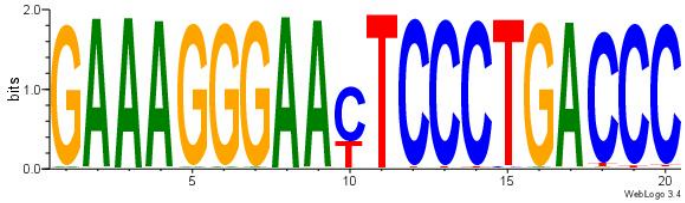

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

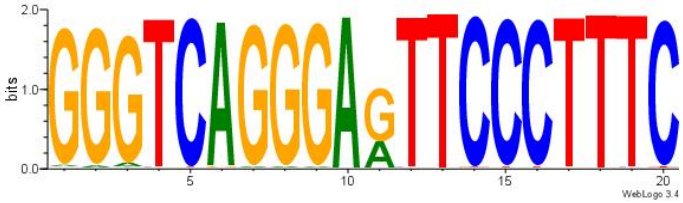

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.130444

Alignment:
AAGCTCGAACTGGGTGGAGC
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

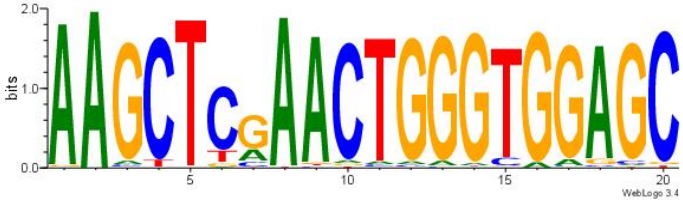

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

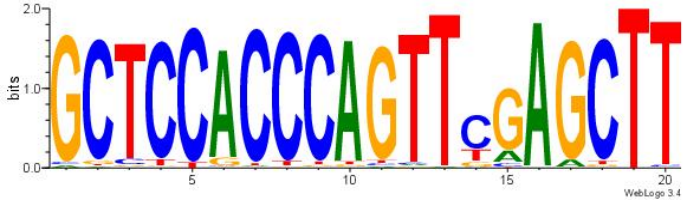

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.130944

Alignment:
CAAGCCTSKGCAATGGCAGG
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

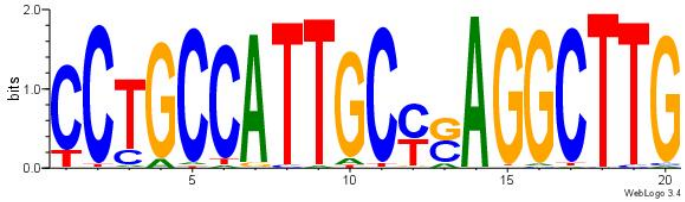

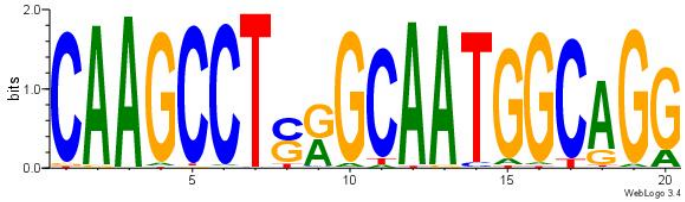

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.131551

Alignment:

```
TYTGTCMTTTTGTGACTGGC
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

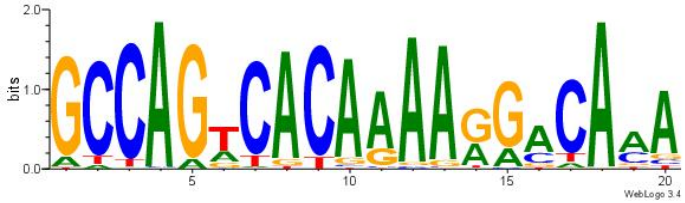

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

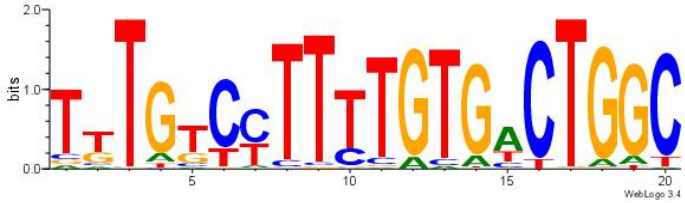

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131787

Alignment:

```
TCKMGCCACTGCACTCCAGC
AAAGTGCCGAGAKTGCAGC-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

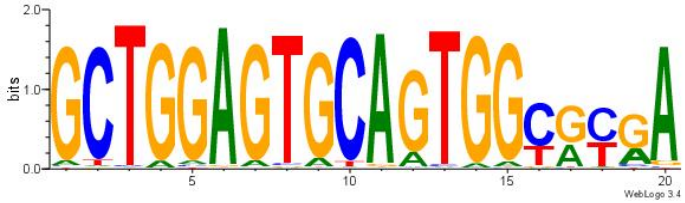

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

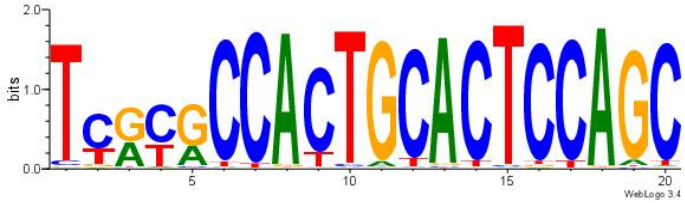

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.132282

Alignment:
GCTGGCCCGCAAGCGCCGCG
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

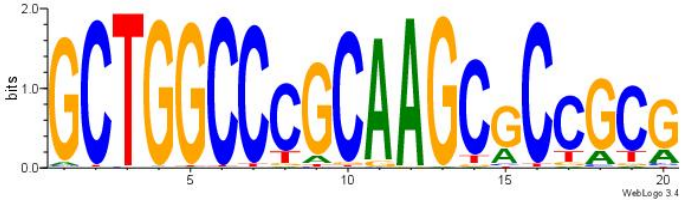

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

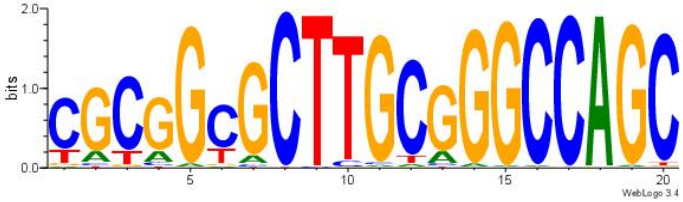

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.132359

Alignment:
KACGGGCTTAARAAACGGC
AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

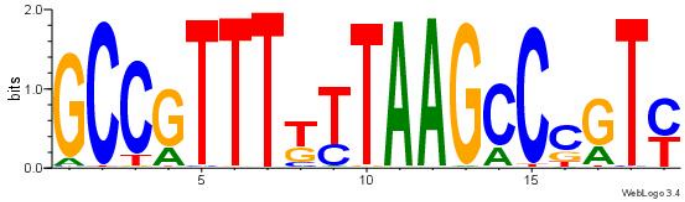

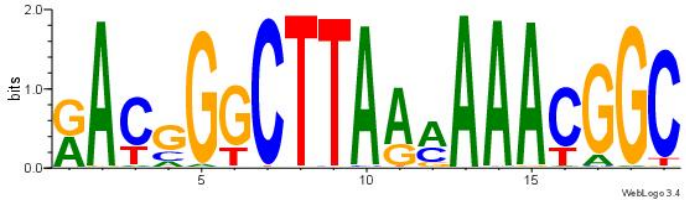

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133093

Alignment:

```
GAAAAGCGCAGTATTMGGG
AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

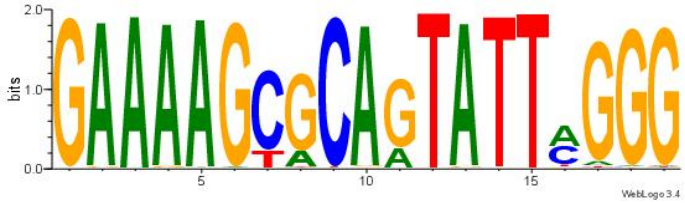

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

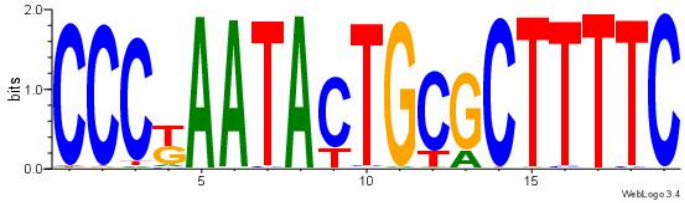

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134259

Alignment:

```
GAAACTGCTTTGTGATGTGT
-AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

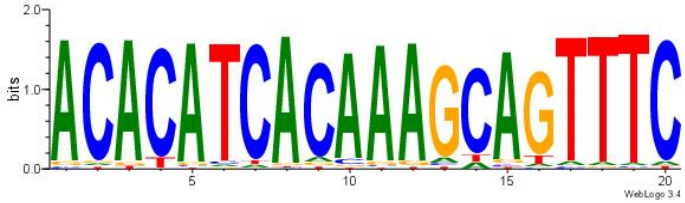

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

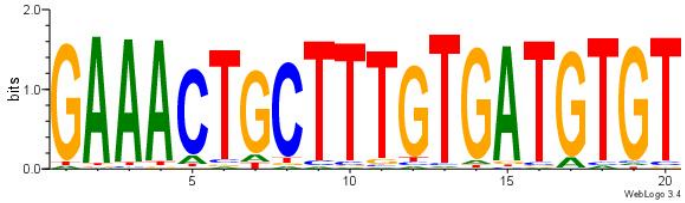

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.134777

Alignment:
AAAATGTGGTAYATAYAYAC
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

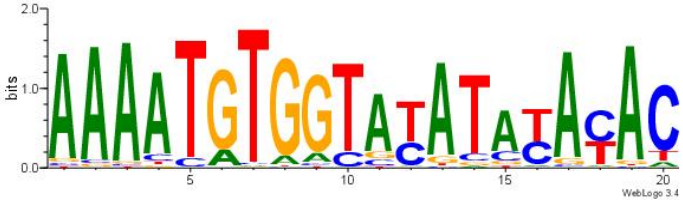

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

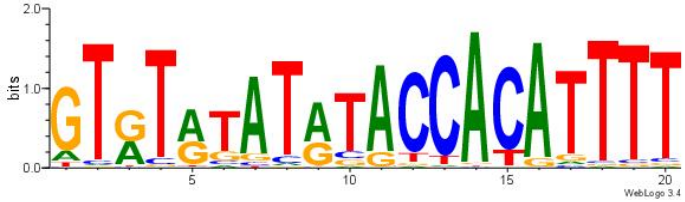

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.136498

Alignment:
GTGCCAGGCACTGTKCTARG
-GCTGCARTCTCGGCACTTT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

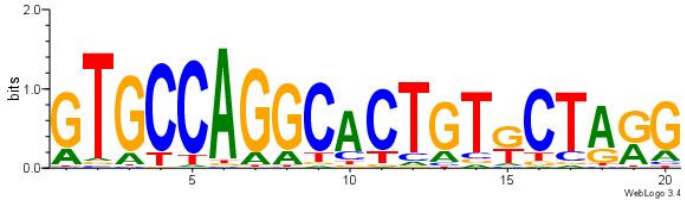

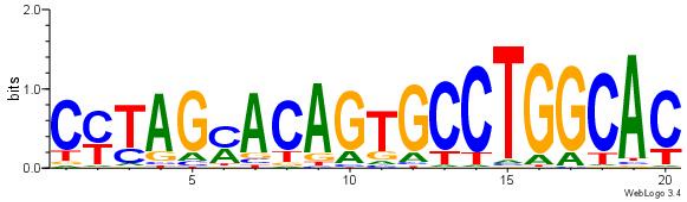

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138255

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-GCTGCARTCTCGGCACTTT
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

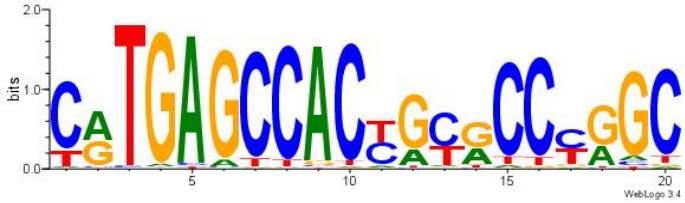

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

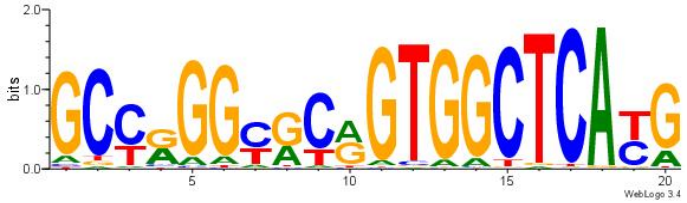

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139845

Alignment:

```
TTMGTCCCAGAGGGGCACC
AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

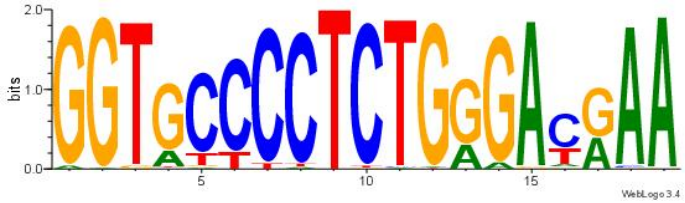

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

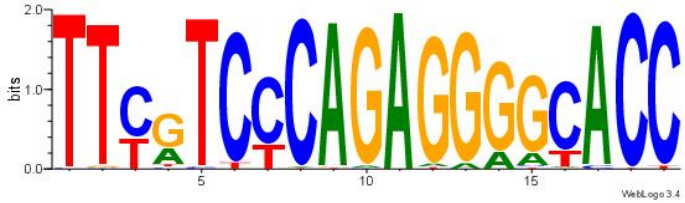

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.140291

Alignment:
ACCKTCGCGGTGAGTGTTAC
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

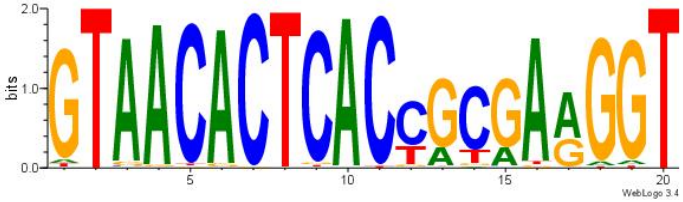

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

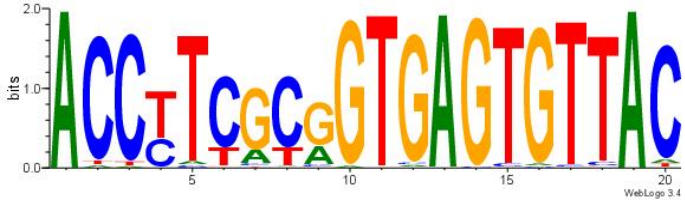

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.140429

Alignment:
AAAMAMMKMATGTTCTCACT
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

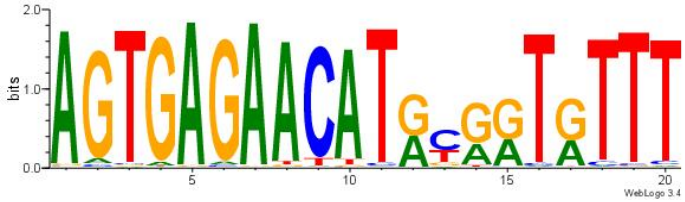

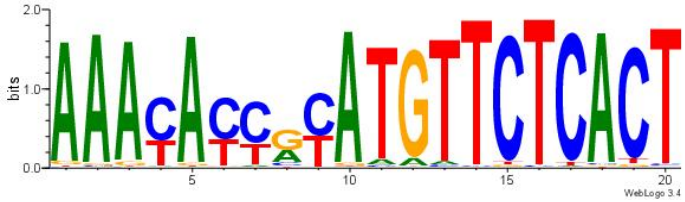

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.143019

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

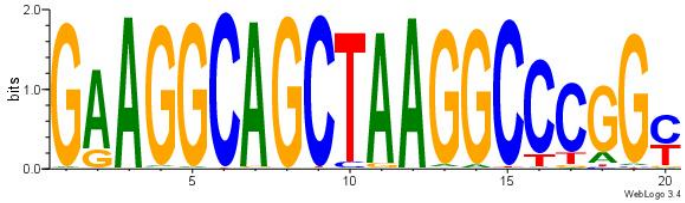

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

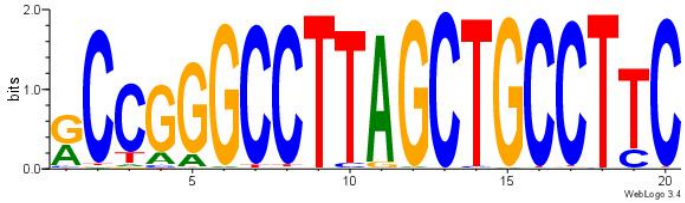

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.143059

Alignment:

```
GGATCCACTGGGTGAAGCCA
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

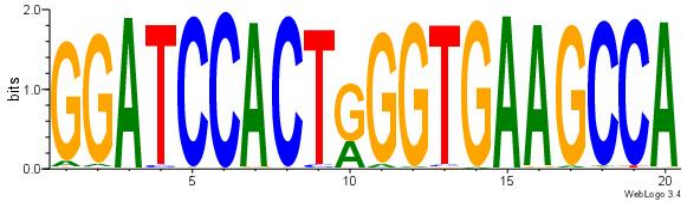

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

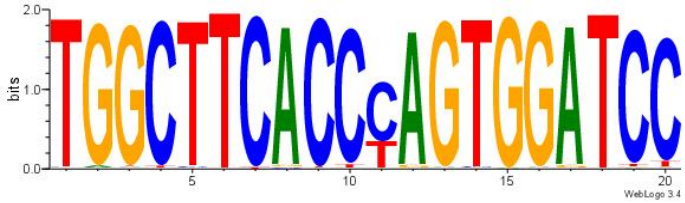

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.143339

Alignment:
AAATTAGGCCAATTAATAAC
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

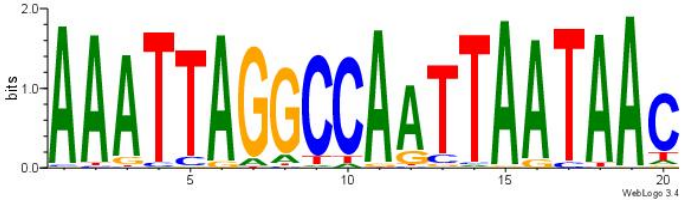

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.143377

Alignment:
GAAHCAACCKAAKTGTCCAT
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

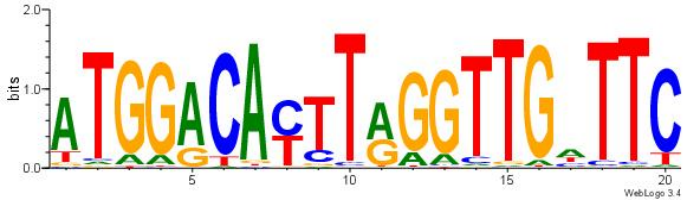

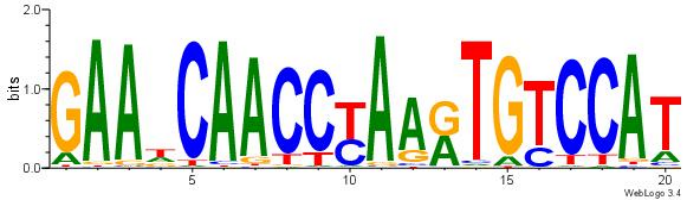

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143656

Alignment:

```
GCTTAGCACCYGGGCCAGC
GCTGCARTCTCGGCACTTT
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

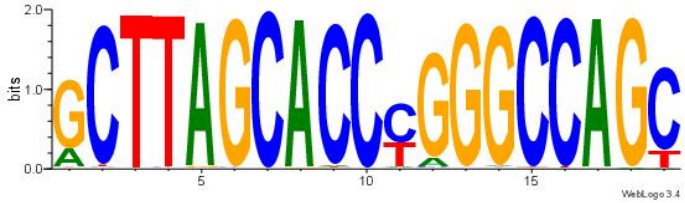

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

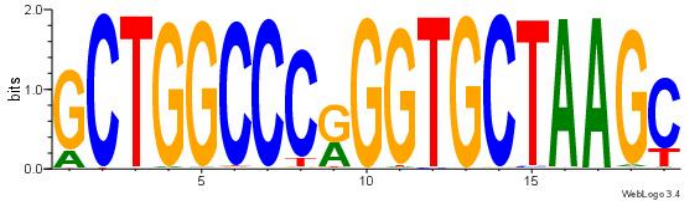

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145178

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

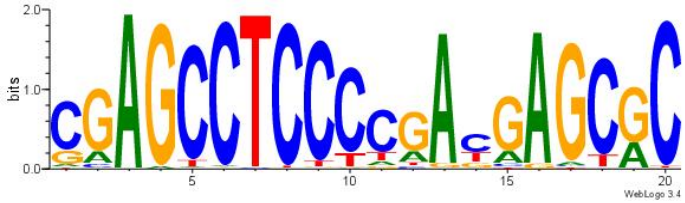

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

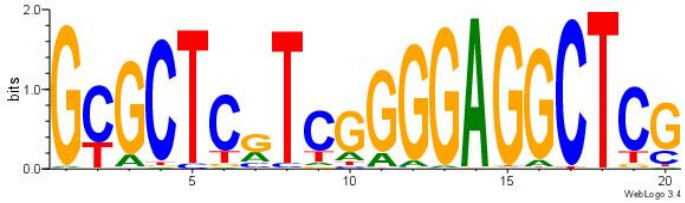

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.14567

Alignment:
CAAGTTGACACATAAAATTA
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

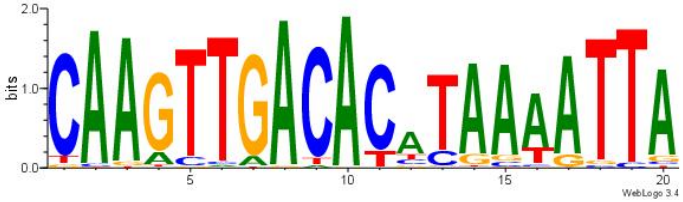

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

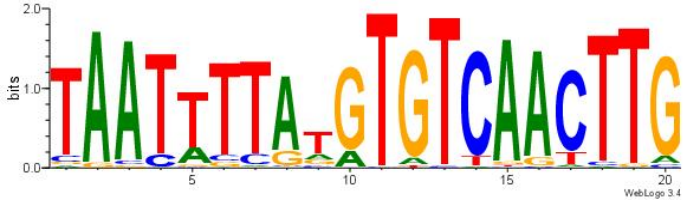

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146088

Alignment:
GGGATTGTAAATACACCAAT
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

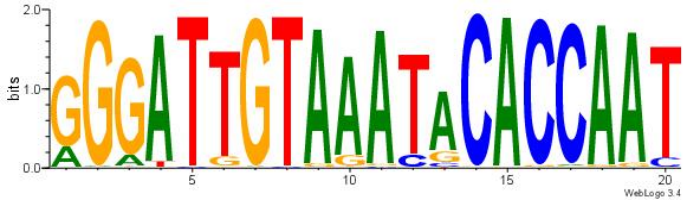

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.147873

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

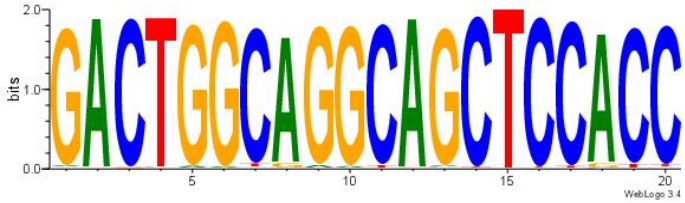

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

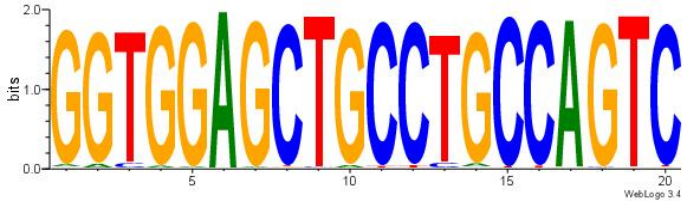

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148051

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

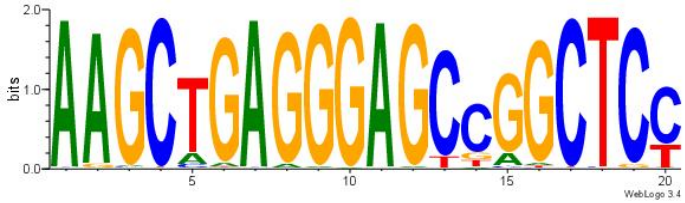

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

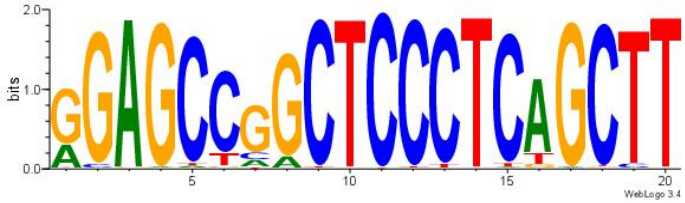

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.148083

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCTGCARTCTCGGCACTTT-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

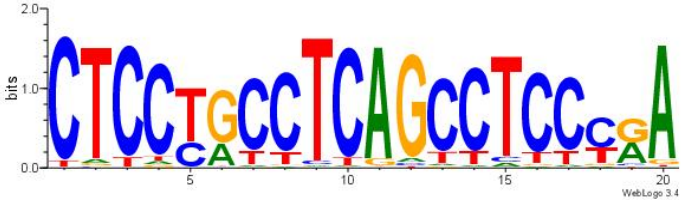

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

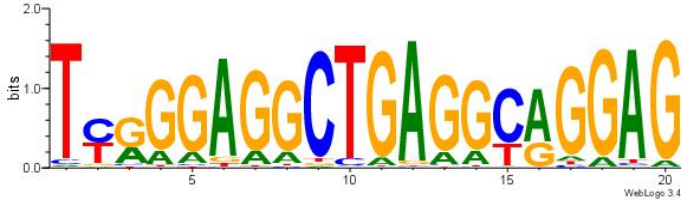

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.148931

Alignment:
ATCTGACAGGAGGYRGAGCT
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

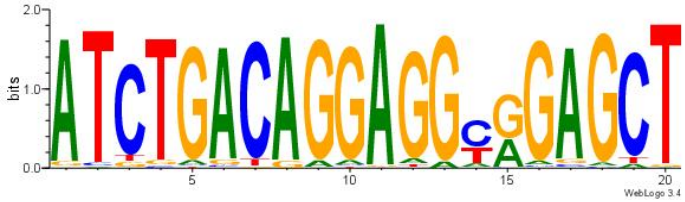

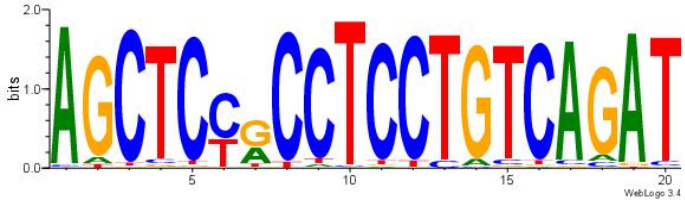

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.149382

Alignment:

```
AAGGAACAAACTCCRGACAC
AAAGTGCCGAGAKTGCAGC-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

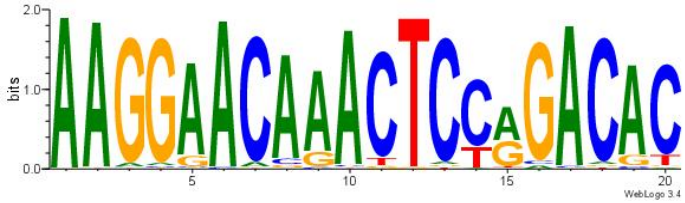

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

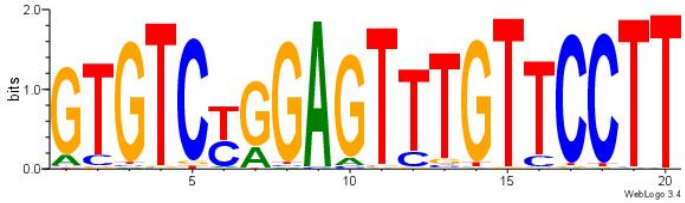

Dataset #: 1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.149451

Alignment:

```
MCCYGGCWSMGASGSTCCT
AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

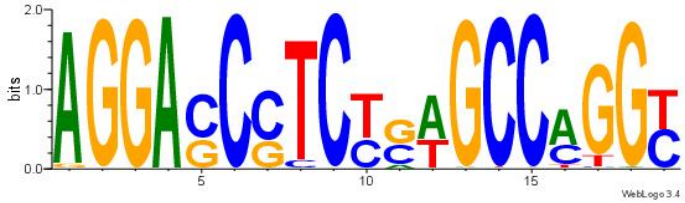

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

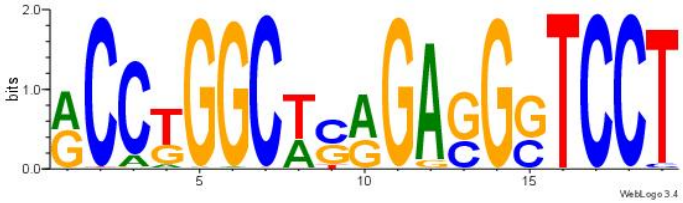

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.149808

Alignment:
ATGATCCAGCAATYCCACTH
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

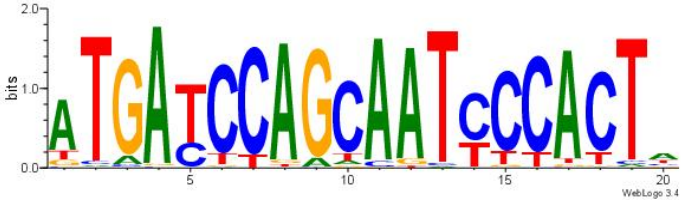

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

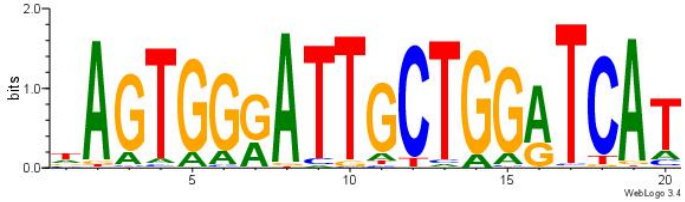

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.150298

Alignment:
AGGCCCCAGTGTSTGTTGTT
AAAGTGCCGAGAKTGCAGC-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

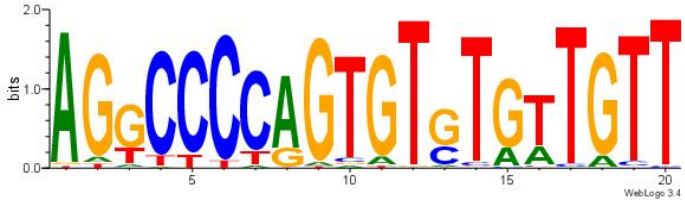

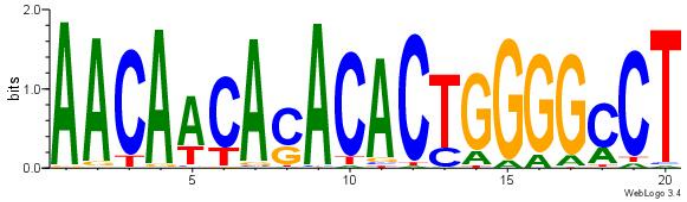

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.151049

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-GCTGCARTCTCGGCACTTT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

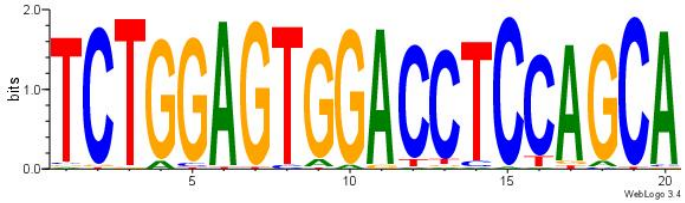

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

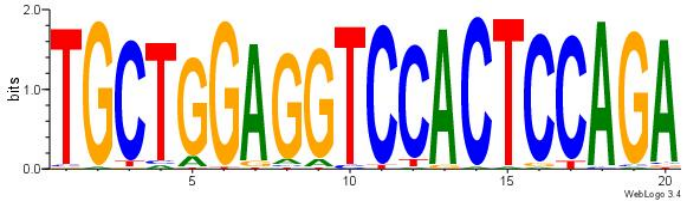

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.151682

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-GCTGCARTCTCGGCACTTT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

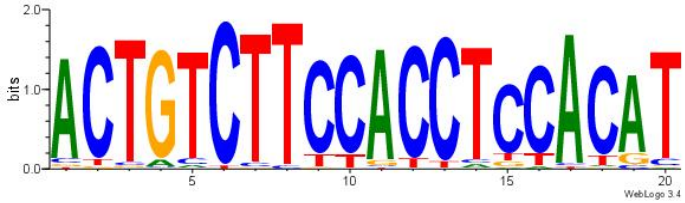

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

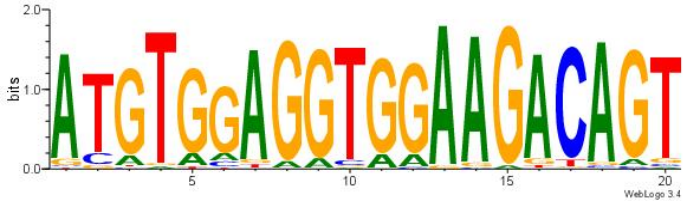

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.151711

Alignment:
GCCAATTTCTCCCATTTGGA
GCTGCARTCTCGGCACTTT-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

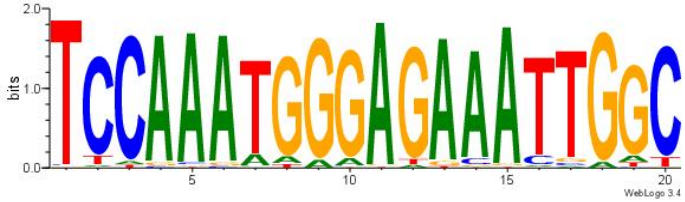

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

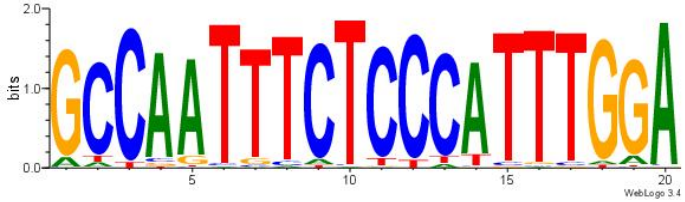

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.151814

Alignment:
CCTAGATTTCAGARGATGT
GCTGCARTCTCGGCACTTT

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

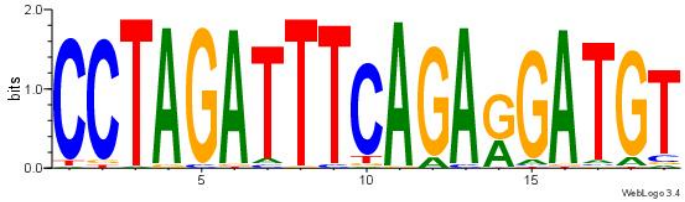

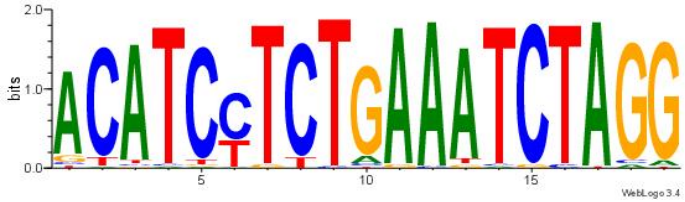

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.152012

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
AAAGTGCCGAGAKTGCAGC-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

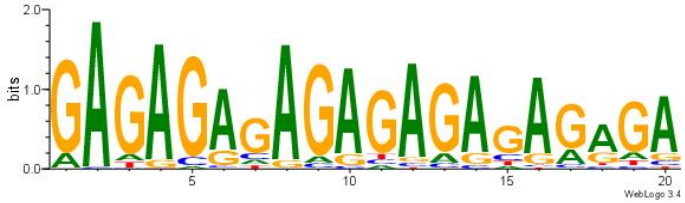

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

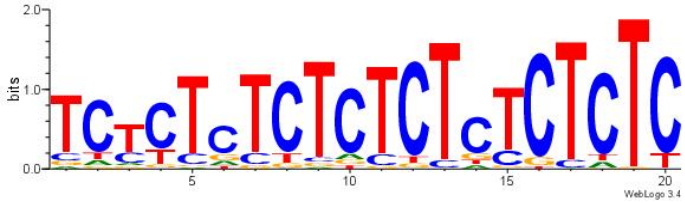

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.152169

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

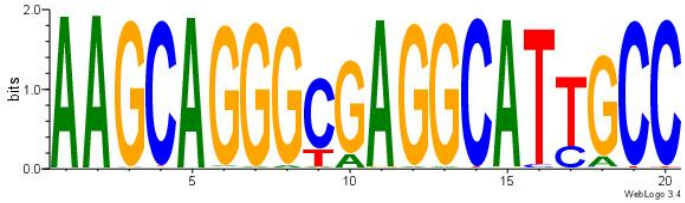

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

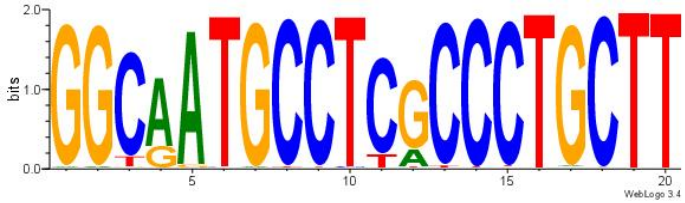

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.152284

Alignment:
CTGGGTCCCCCAGCAGTGCC
-GCTGCARTCTCGGCACTTT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

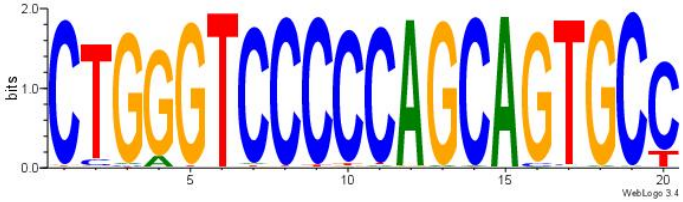

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

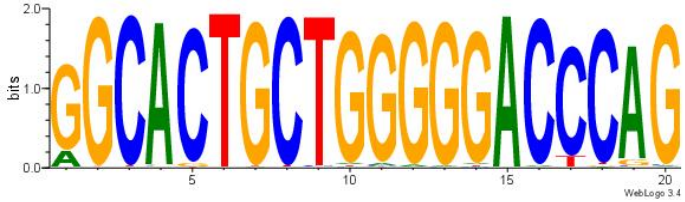

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.152606

Alignment:
ACCCAATWTGTAGTCTTTTA
-GCTGCARTCTCGGCACTTT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

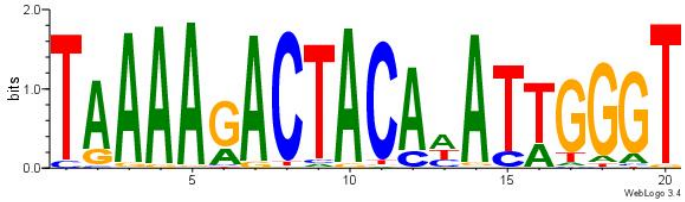

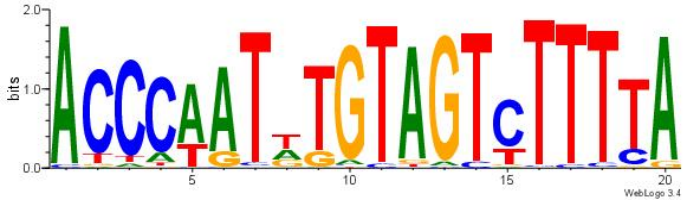

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.152628

Alignment:

```
AGCTCCCAGCGTGAGCGACG
GCTGCARTCTCGGCACTTT-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

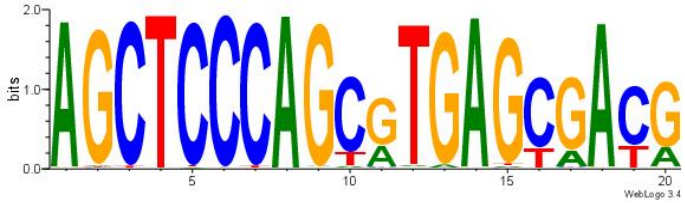

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

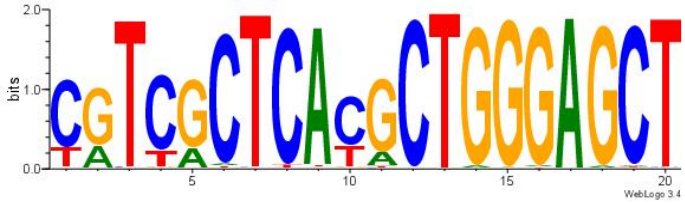

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.152815

Alignment:

```
AGATGCCAGCCAGAGCTCT
AAAGTGCCGAGAKTGCAGC
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

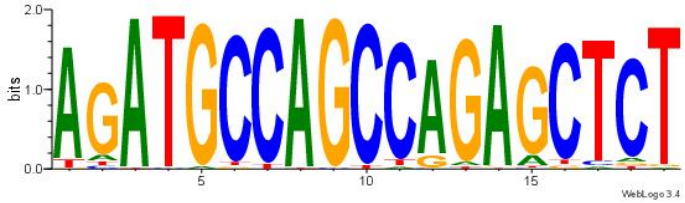

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

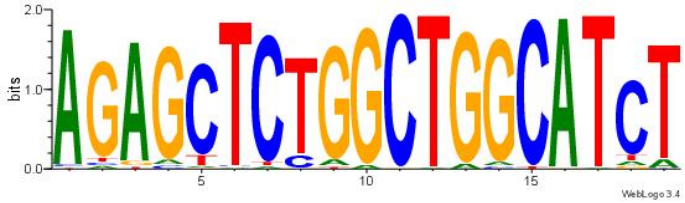

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.153014

Alignment:
TCCCTCCCGGACGGGGYGGC
-AAAGTGCCGAGAKTGCAGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

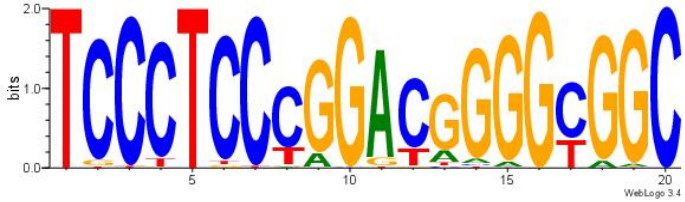

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

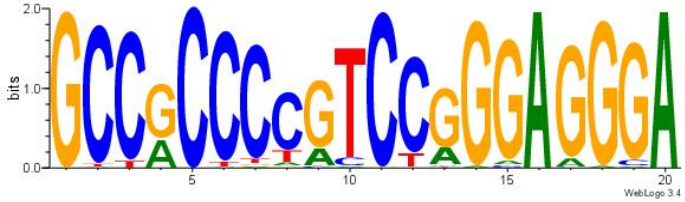

Dataset #: 1 Motif ID: 192 Motif name: Motif 192

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

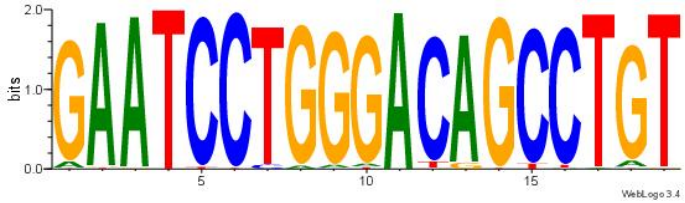

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

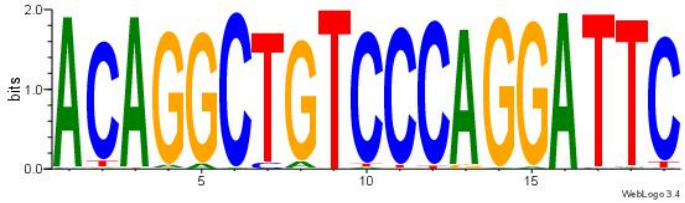

Best Matches for Motif ID 192 (Highest to Lowest)

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.111729

Alignment:

```
CAAASCKGTCATAGGCCAT
GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

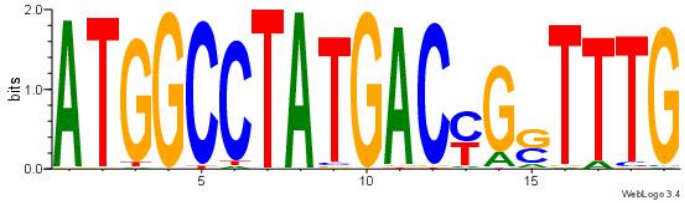

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

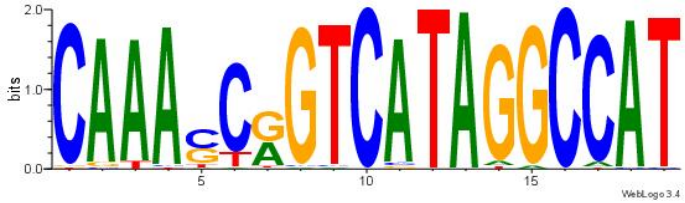

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.111948

Alignment:

GAAGGCAGCTAAGGCCCGGY
GAATCCTGGGACAGCCTGT-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

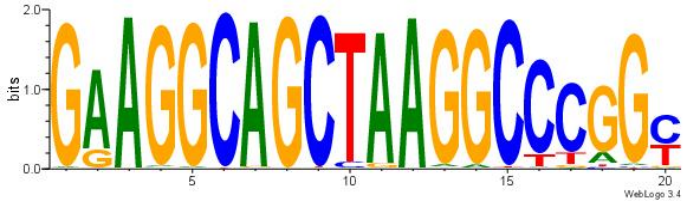

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

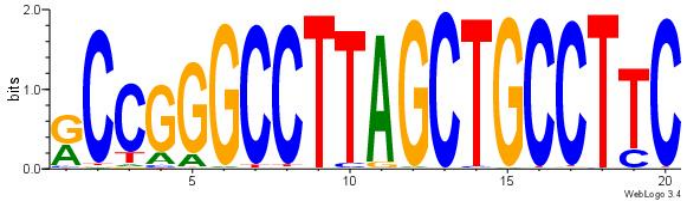

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.113733

Alignment:
CCTAGATTTCAGARGATGT
ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

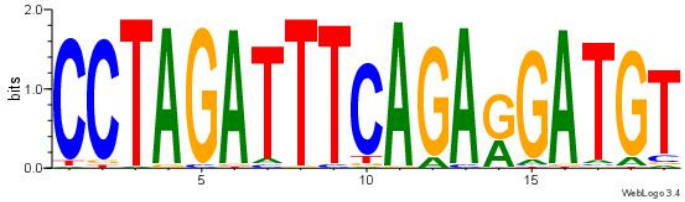

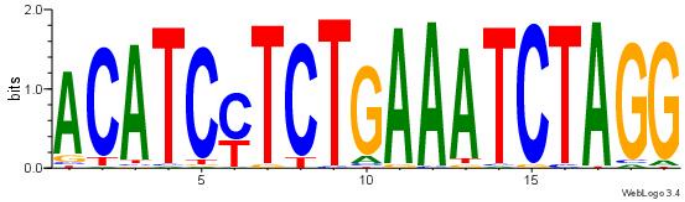

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.116458

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

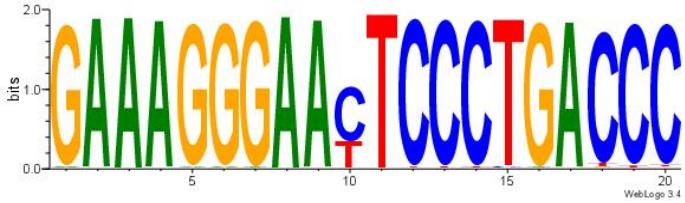

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

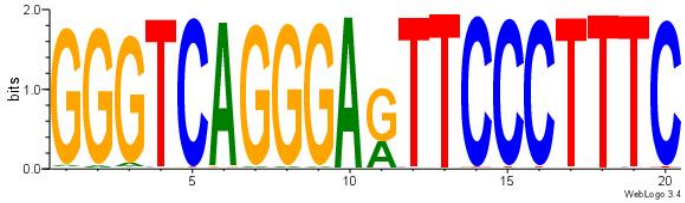

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.11685

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

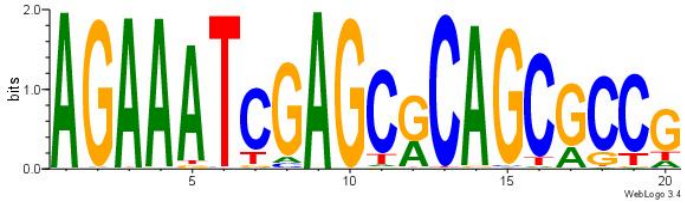

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

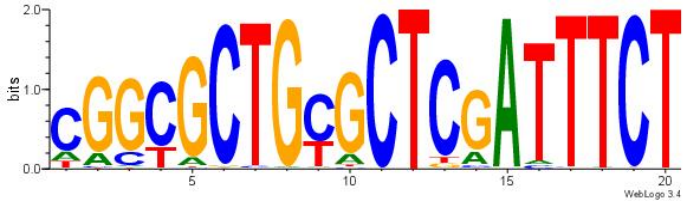

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.121387

Alignment:
GCGCTCKTCGGGGAGGCTCG
GAATCCTGGGACAGCCTGT-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

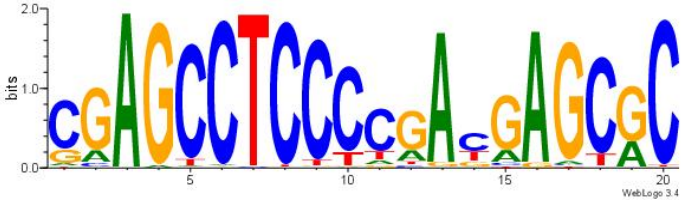

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

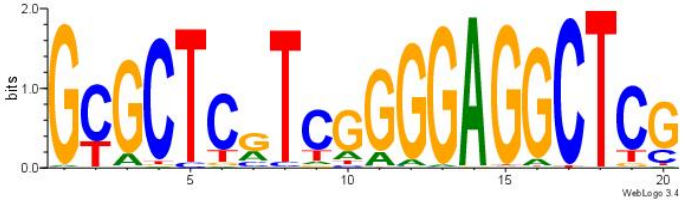

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.122153

Alignment:
MTCCTCCAGACCCCAGAATG
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

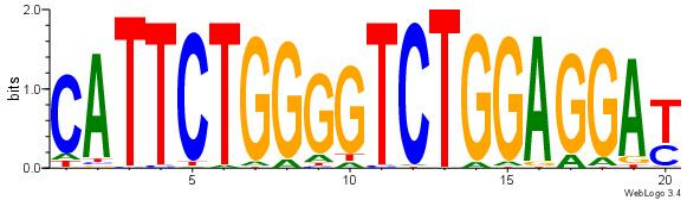

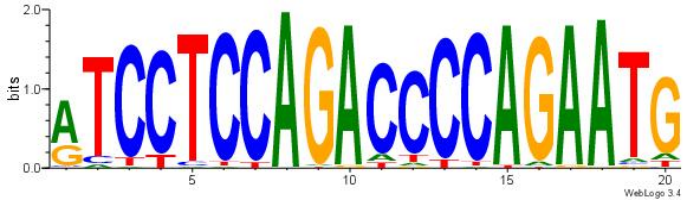

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.122393

Alignment:
GGTGGGGGGGTCAGCCCCC
GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

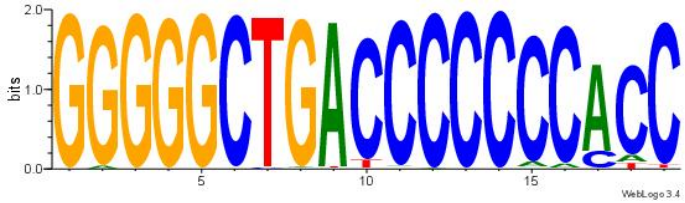

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

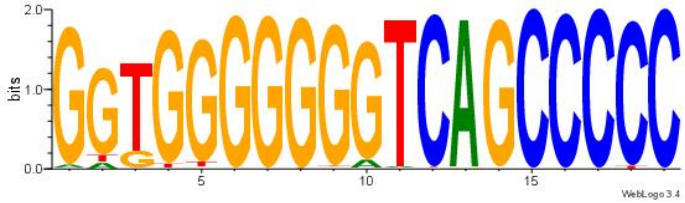

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.125344

Alignment:

```
AAGTCCAAGATCAAGGTGYY
GAATCCTGGGACAGCCTGT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

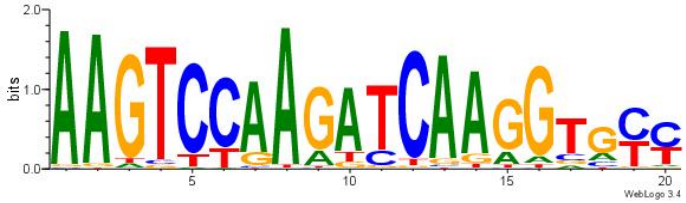

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

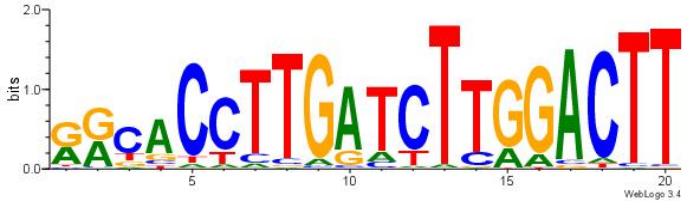

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.125879

Alignment:
CAGCTACTCKTATACCCTTG
-GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

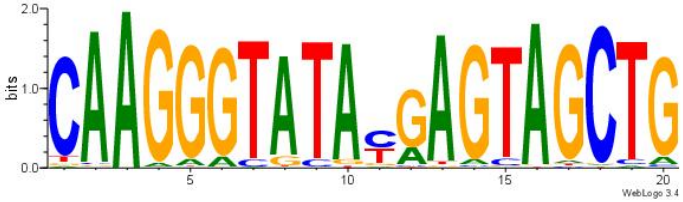

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

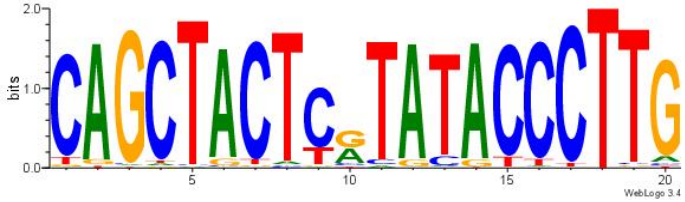

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.126092

Alignment:
CCCATGCAAGTCYRAAATCC
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

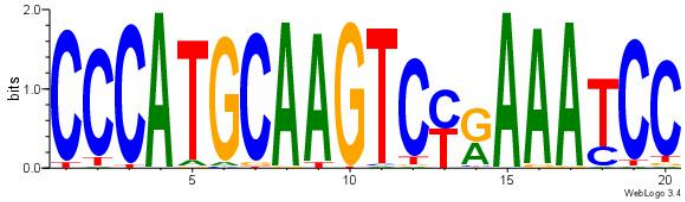

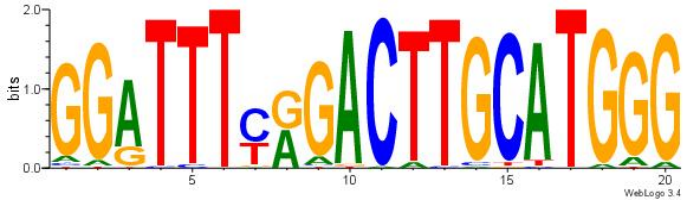

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.126491

Alignment:

```
ATAGGAATGCTTGTGATTTT
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

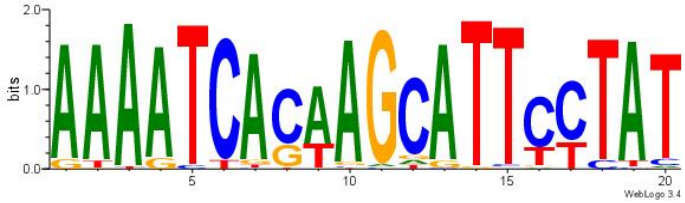

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

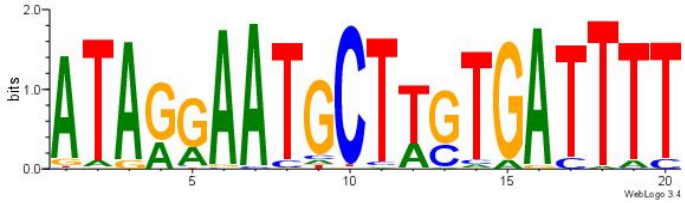

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.127792

Alignment:
AGGAACAGCTCCRGTCTAC
ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

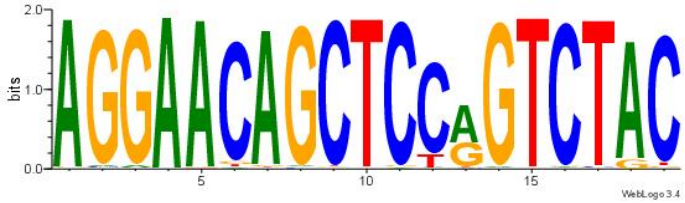

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

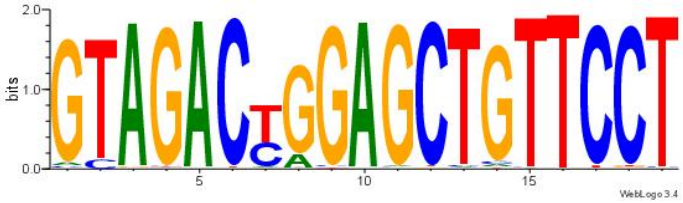

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.128804

Alignment:
ATCRCTTGAGSYCAGGAGKT
ACAGGCTGTCCCAGGATTC-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

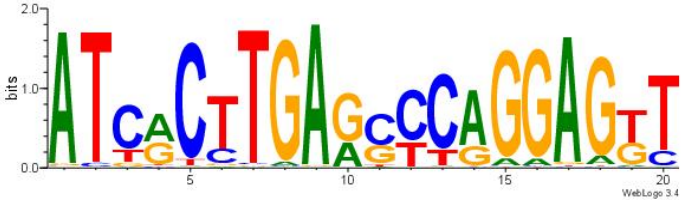

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

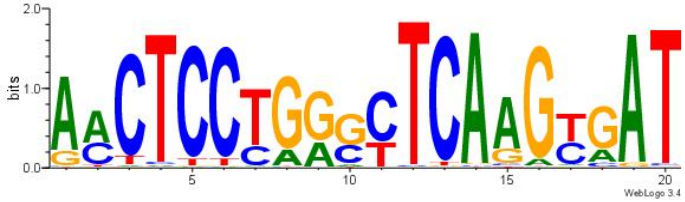

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.129404

Alignment:
GGCATCACGGATCCTACCAA
-GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

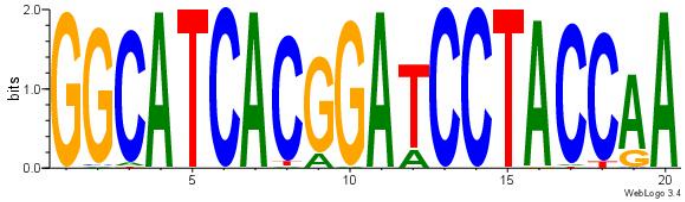

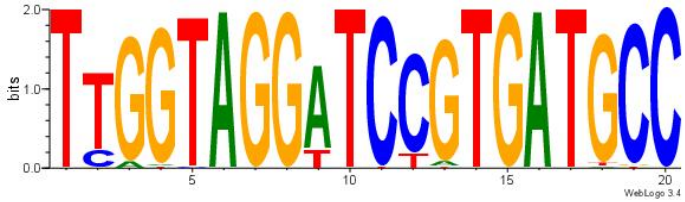

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.129671

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-ACAGGCTGTCCCAGGATTC
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

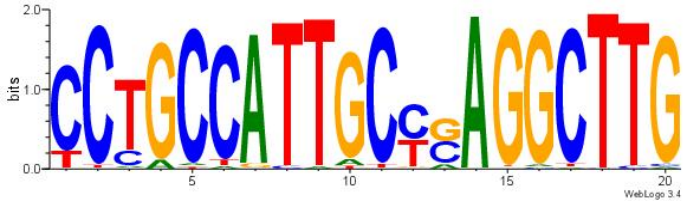

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

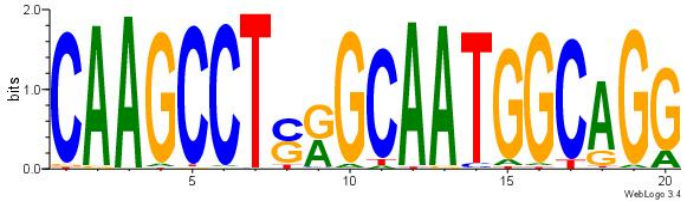

Dataset #: 1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.131377

Alignment:

```
AAAACCAGCAAGTTTTTAT
GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

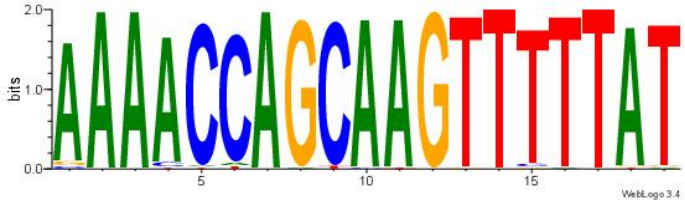

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

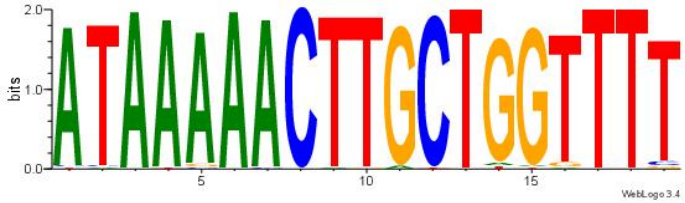

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.131756

Alignment:
AGAGCTCTGGCTGGCATCT
GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

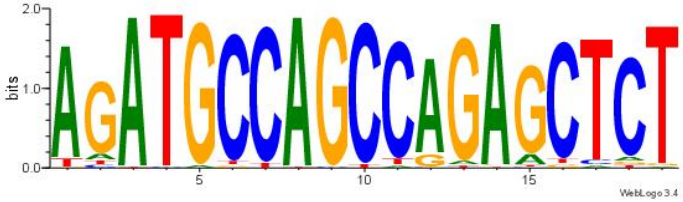

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

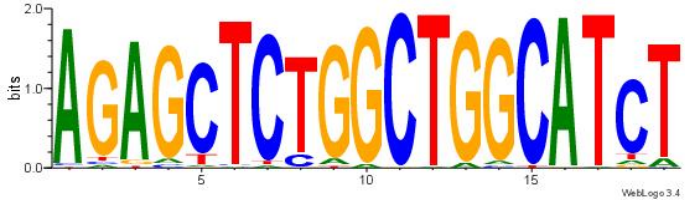

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.132421

Alignment:
GCCAATTTCTCCCATTTGGA
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

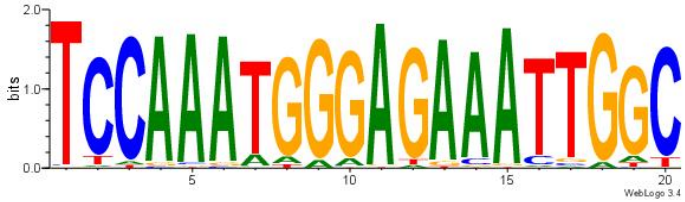

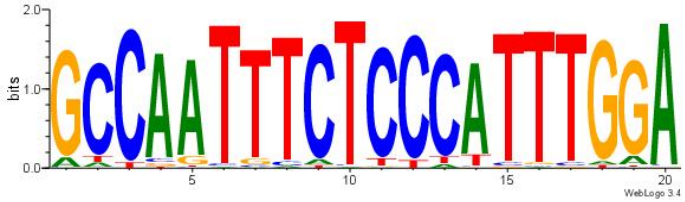

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.133638

Alignment:

```
TCCCTCCCGGACGGGGYGGC
-GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

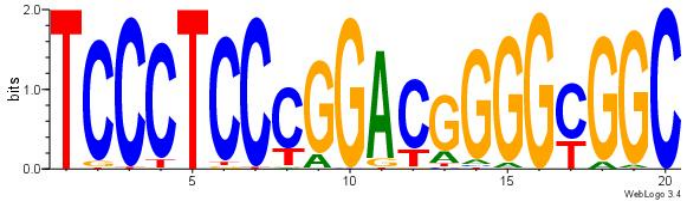

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

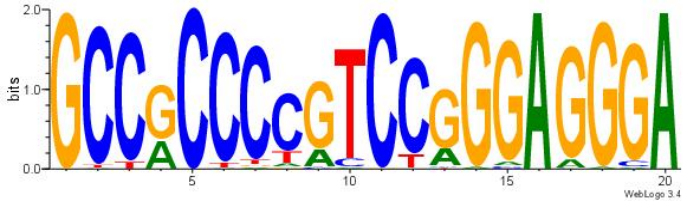

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134489

Alignment:

```
AGAGCCAAATCATGARTGAA
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

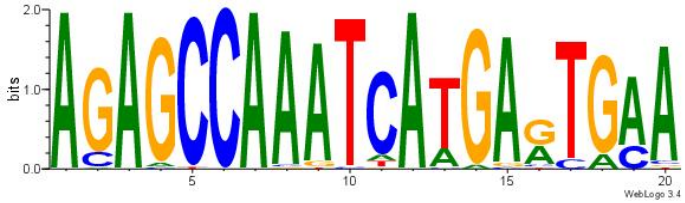

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

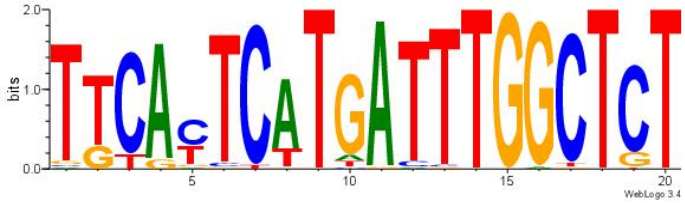

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.134594

Alignment:
CCACCACAGCTCAAGGAGGC
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

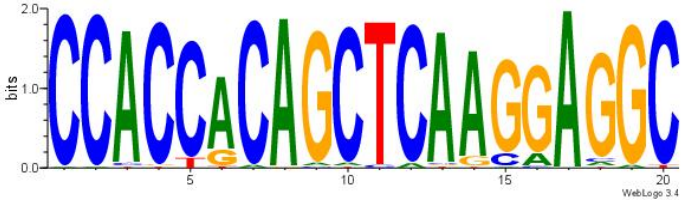

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

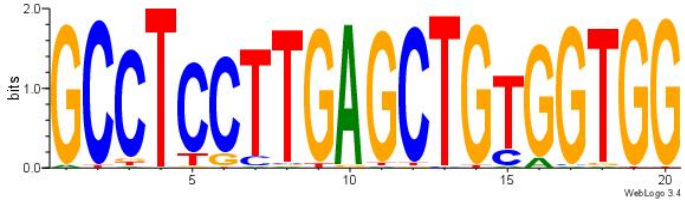

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.134883

Alignment:
GGTGGAGCTGCCTGCCAGTC
-GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

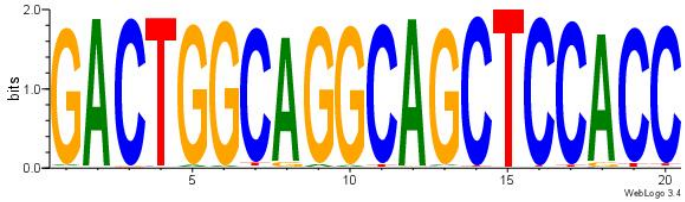

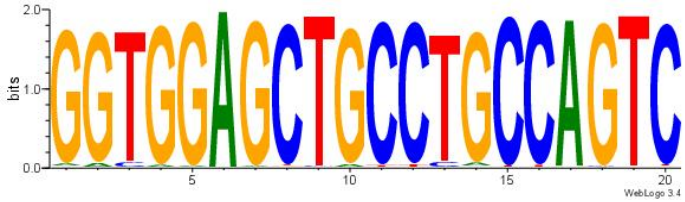

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135628

Alignment:

```
AAAATGTGGTAYATAYAYAC
GAATCCTGGGACAGCCTGT-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

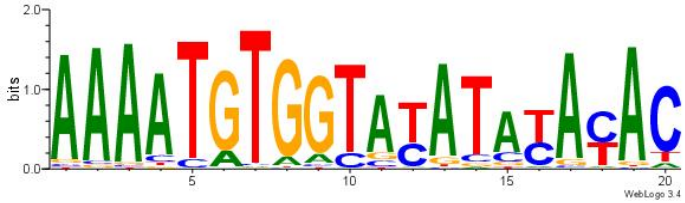

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

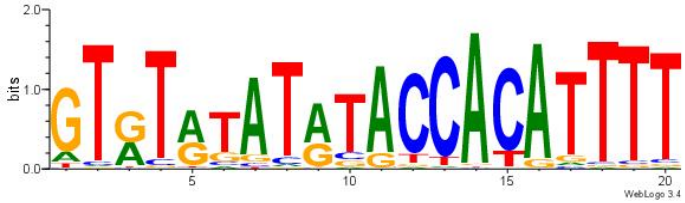

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.136061

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

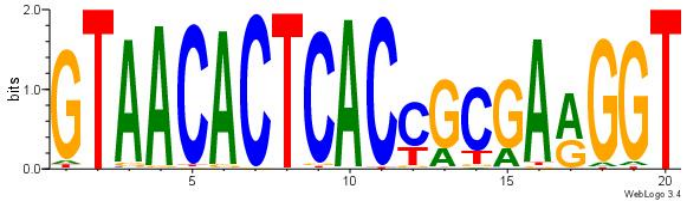

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

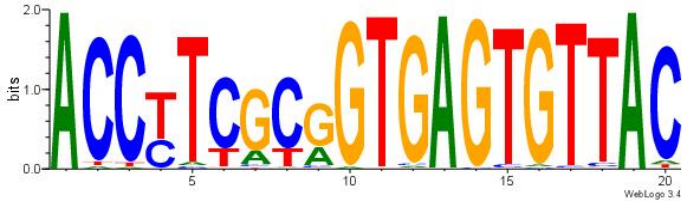

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.136076

Alignment:
CTTGGGTGGTCGATGGGAC
ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

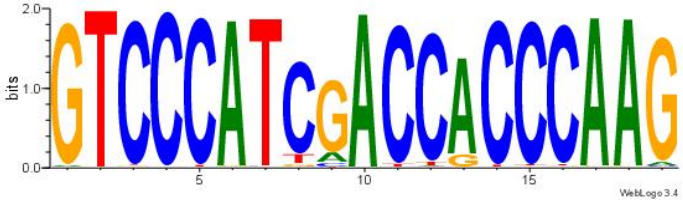

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

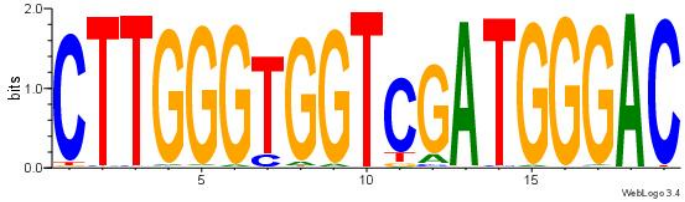

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.137058

Alignment:
CGTCGCTCACGCTGGGAGCT
ACAGGCTGTCCCAGGATTC-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

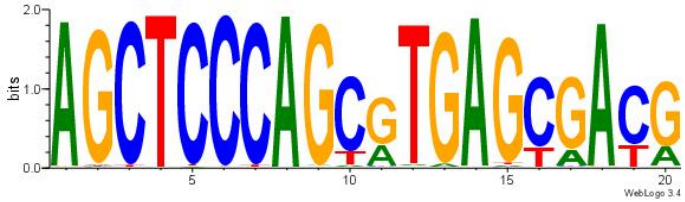

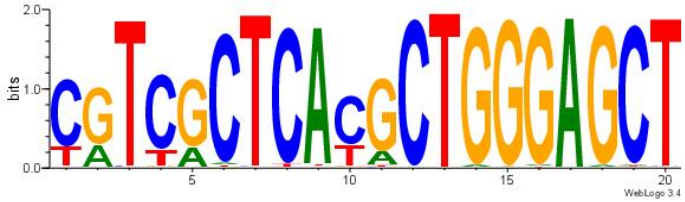

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137824

Alignment:
GCCACCAMGCCMKGCTAAT
GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

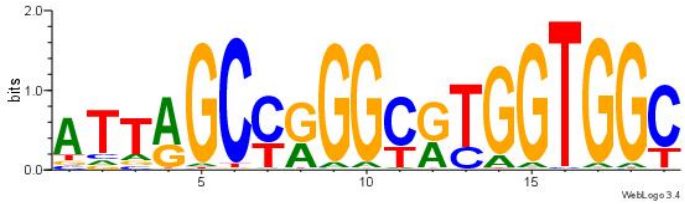

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

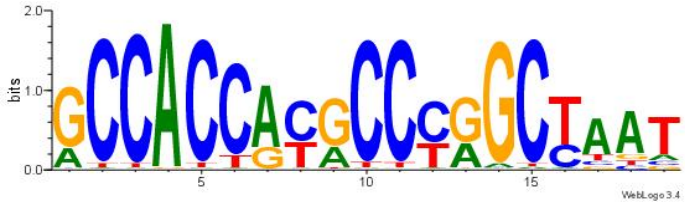

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137895

Alignment:

```
GCACATGTAYCCYAGAACTT
-ACAGGCTGTCCCAGGATTC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

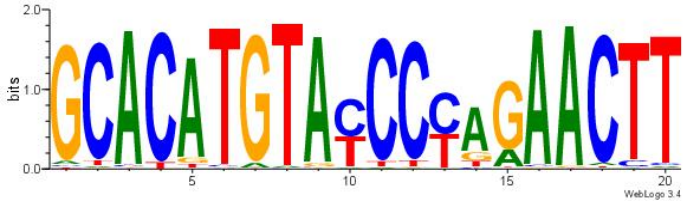

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

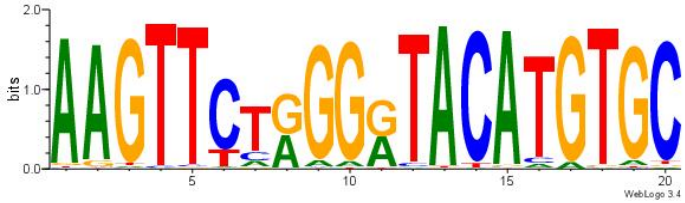

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.138156

Alignment:
AAGCTGAGGGAGCCGGCTCC
ACAGGCTGTCCCAGGATTC-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

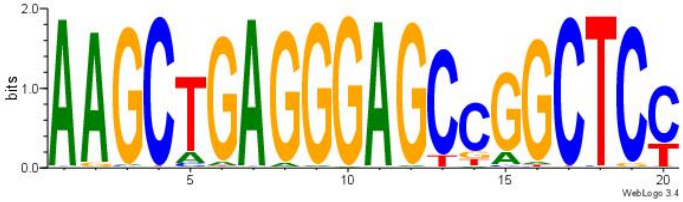

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

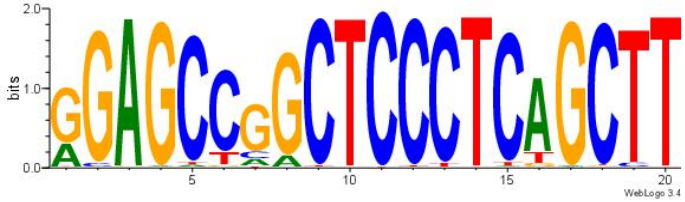

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.138256

Alignment:
AGCCCCGGTTCCCGCYCGC
ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

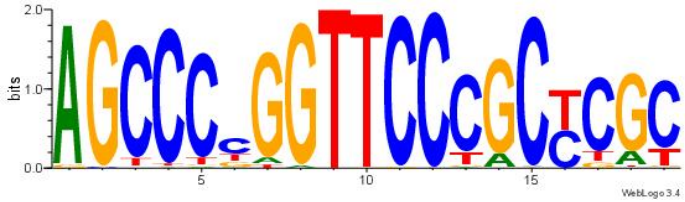

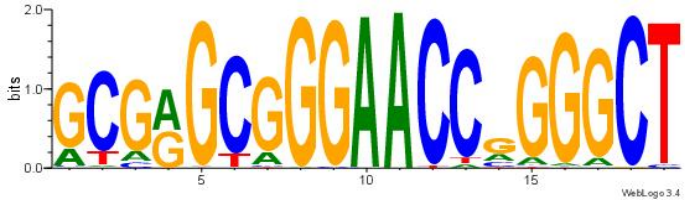

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.138305

Alignment:

```
AAAGCTGGAGCTATTATCTA
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

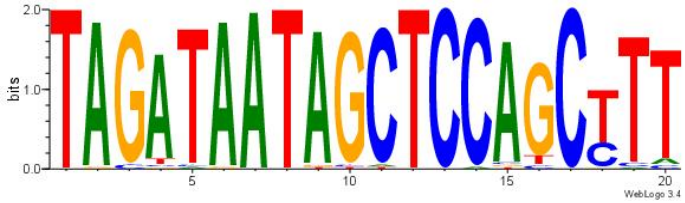

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

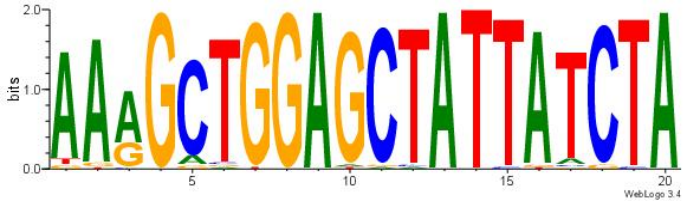

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138684

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

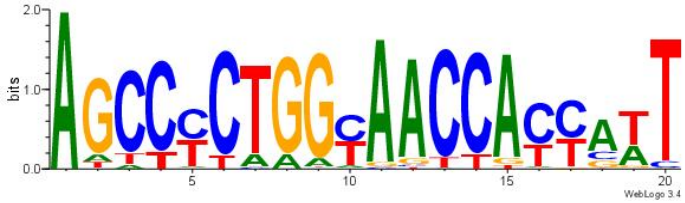

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

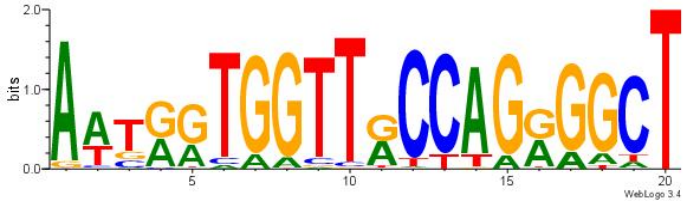

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.139676

Alignment:
AAGGAACAAACTCCRGACAC
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

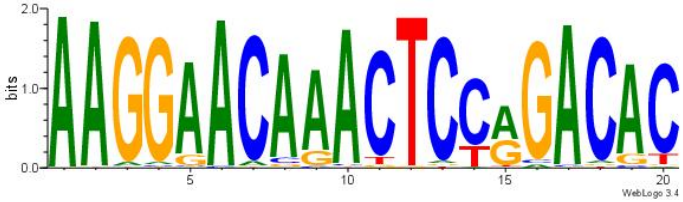

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

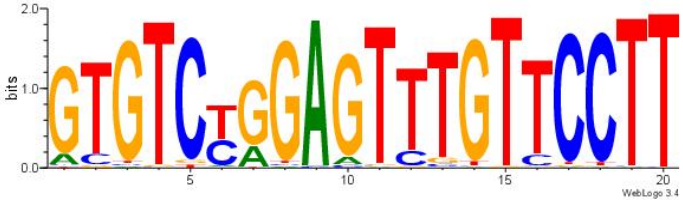

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140149

Alignment:
AACAACASACACTGGGGCCT
ACAGGCTGTCCCAGGATTC-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

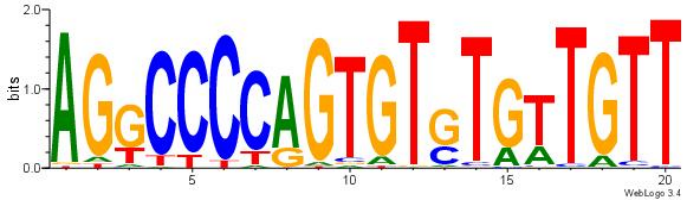

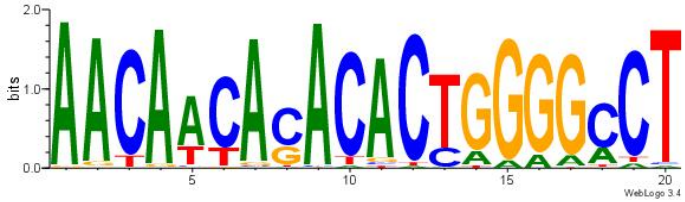

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.140217

Alignment:
CTTGCCCAAGGTCACACAGC
GAATCCTGGGACAGCCTGT-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

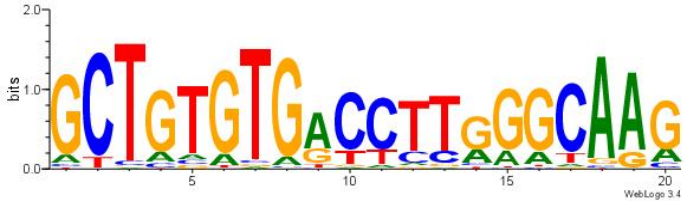

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

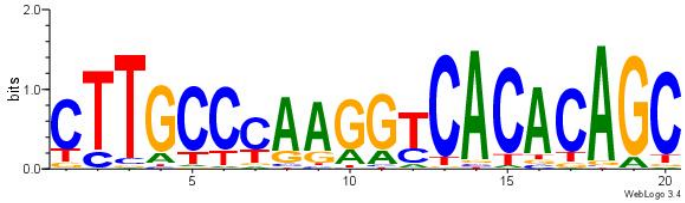

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140647

Alignment:

```
AGTAGGTGCTCARTAAATRB
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

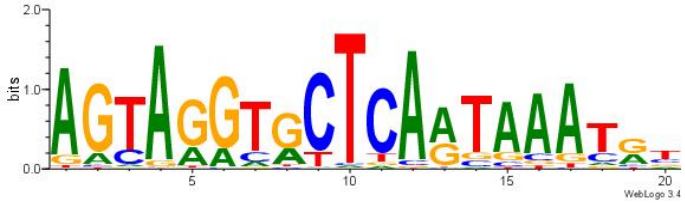

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

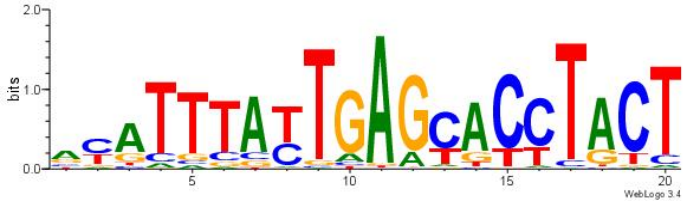

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.141807

Alignment:
CTATTGTGAATARTGCTGC
GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

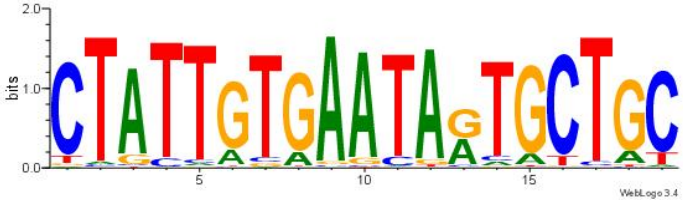

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

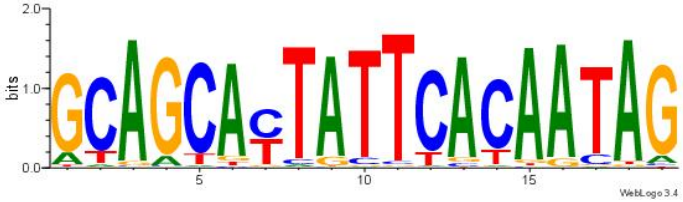

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.142485

Alignment:
HAGTGGKATTGCTGGATCAT
ACAGGCTGTCCCAGGATTC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

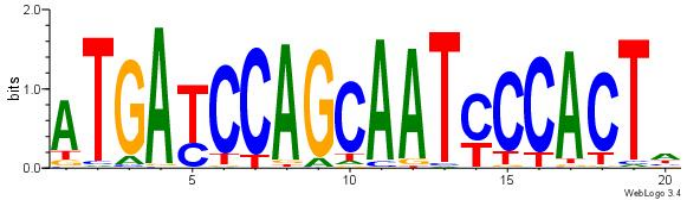

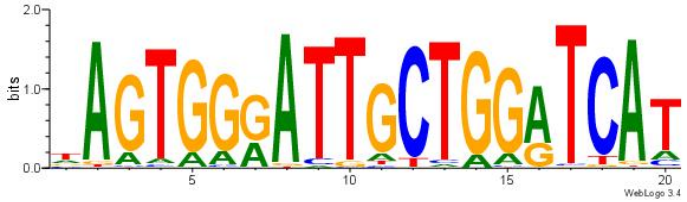

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142735

Alignment:

```
GAATACCTCCTGAAGGACCT
GAATCCTGGGACAGCCTGT-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

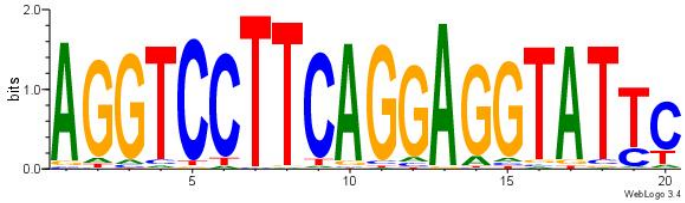

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

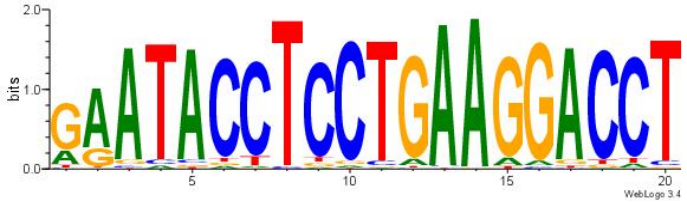

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.143485

Alignment:

```
CTGACTGGGAGACACCTCCC
-GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

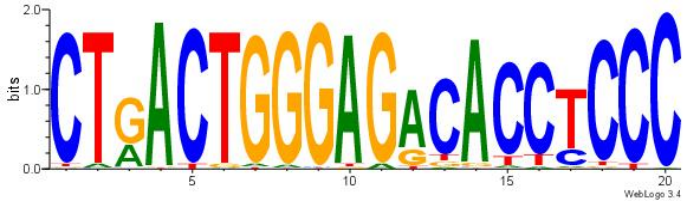

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

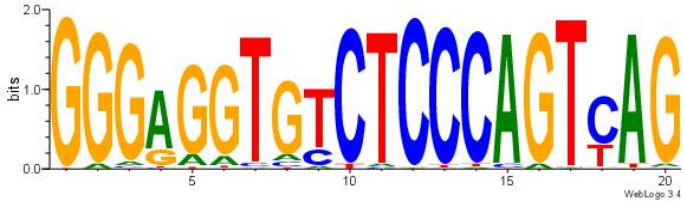

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.143544

Alignment:
GGGATTGTAAATACACCAAT
GAATCCTGGGACAGCCTGT-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

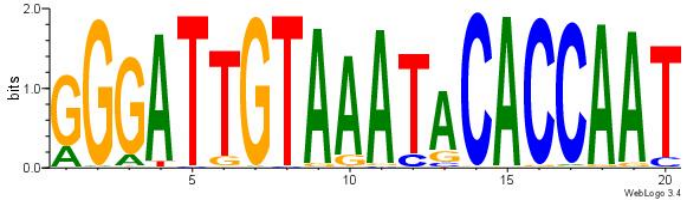

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.143815

Alignment:
TGCTGGAGGTCCACTCCAGA
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

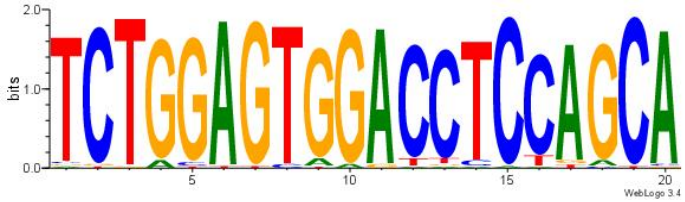

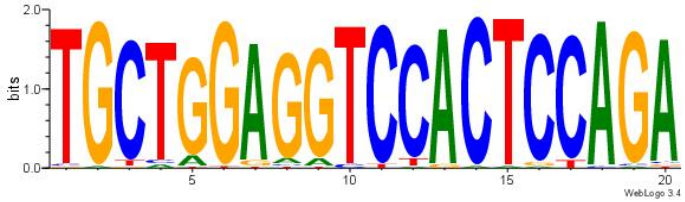

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144307

Alignment:

```
ATGTGGAGGTGGAAGACAGT
GAATCCTGGGACAGCCTGT-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

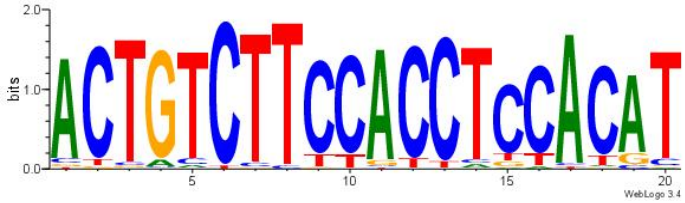

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

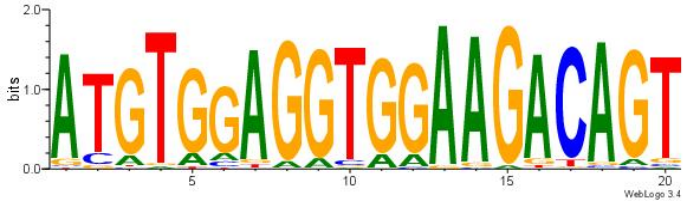

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.145214

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-GAATCCTGGGACAGCCTGT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

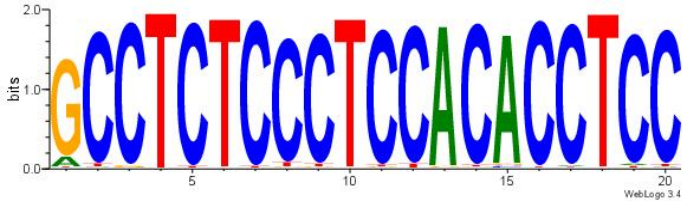

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

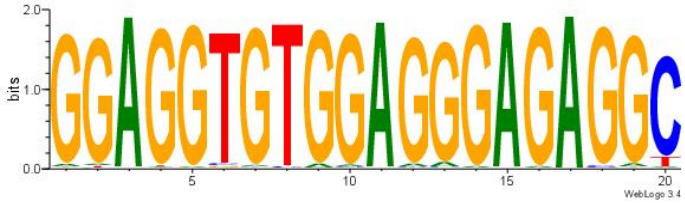

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.146223

Alignment:
CTCAGTGTTAATCTCCTGTC
-ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

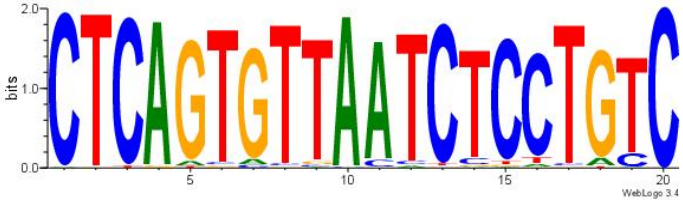

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

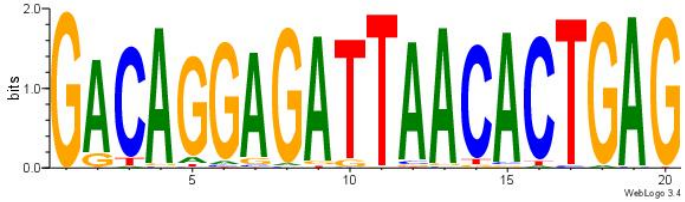

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.146455

Alignment:
CGCGGCGCTTGCGGGCCAGC
ACAGGCTGTCCCAGGATTC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

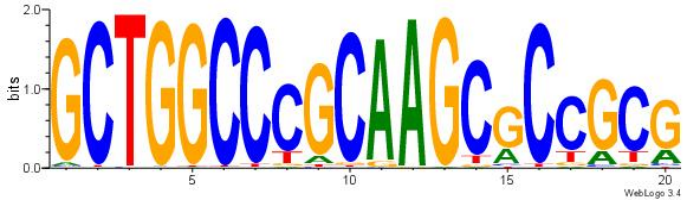

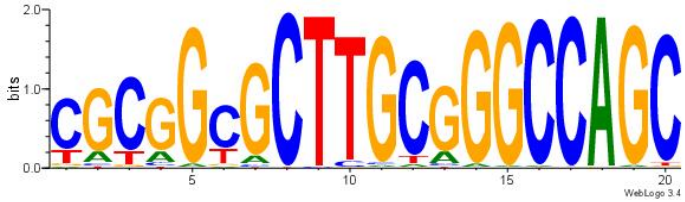

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146545

Alignment:
GGGTGCAGGMGGGCTGAGT
GAATCCTGGGACAGCCTGT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

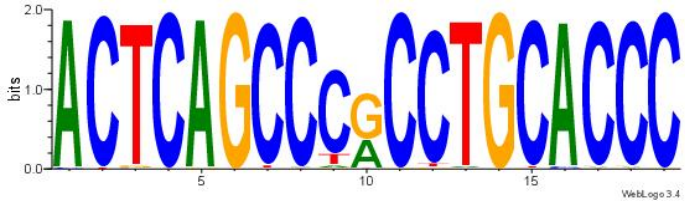

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

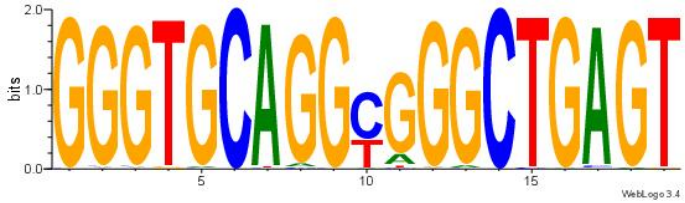

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.146962

Alignment:

```
ATCTGACAGGAGGYRGAGCT
ACAGGCTGTCCCAGGATTC-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

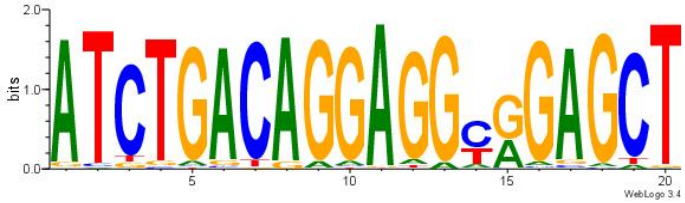

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

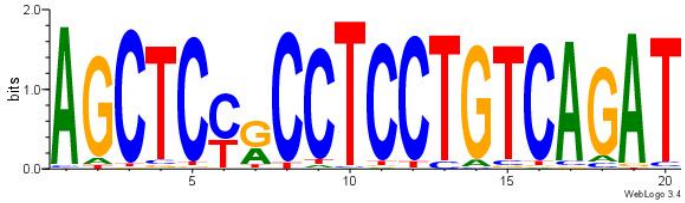

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.147002

Alignment:
AGGCTGTTTTACAGTTAAC
ACAGGCTGTCCCAGGATTC

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

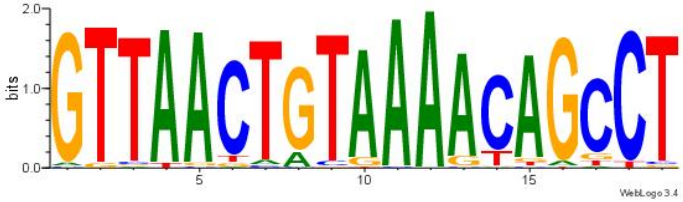

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

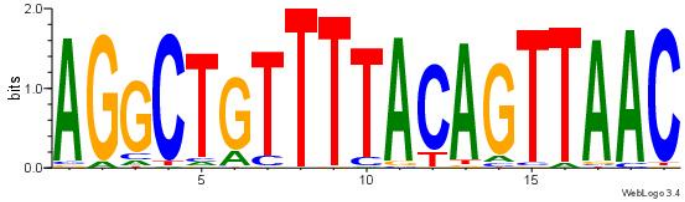

Dataset #: 1 Motif ID: 193 Motif name: Motif 193

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

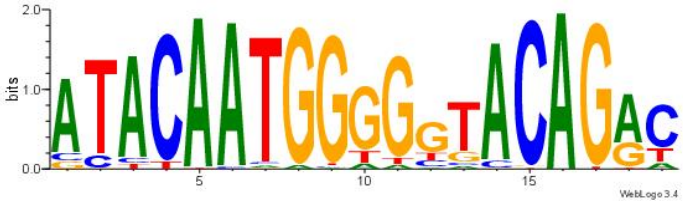

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

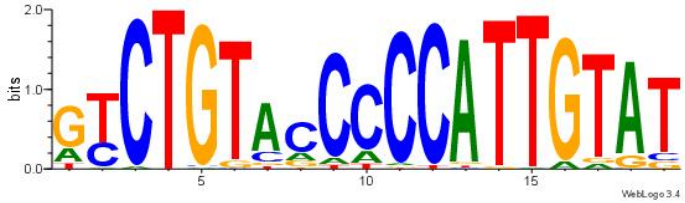

Best Matches for Motif ID 193 (Highest to Lowest)

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.0903363

Alignment:

```
TGHCCTGCKCCCACTGTCT
GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

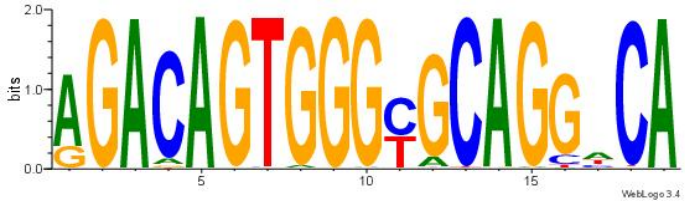

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

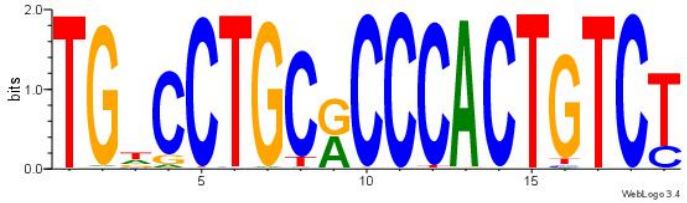

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0979844

Alignment:

TGCTGGAGGTCCACTCCAGA
GKCTGTACCCCCATTGTAT-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

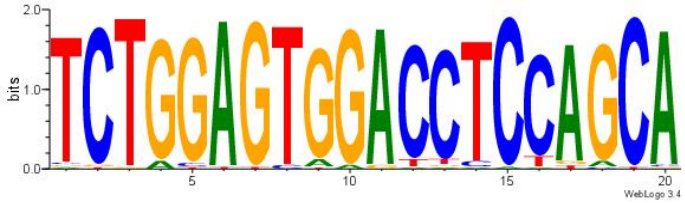

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

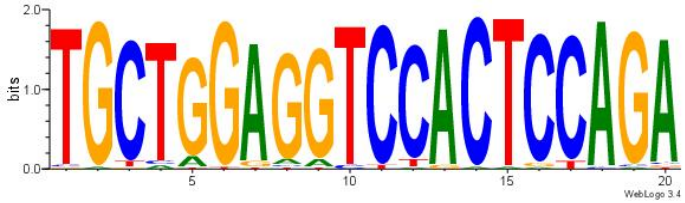

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.105978

Alignment:
GCCTCTCCCTCCACACCTCC
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

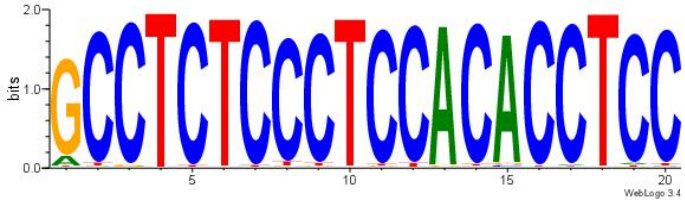

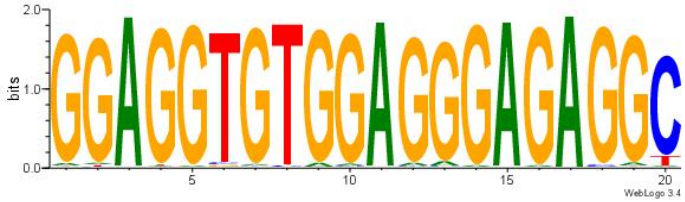

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.109522

Alignment:

```
ATTAGCYRGGCRTGGTGGC
ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

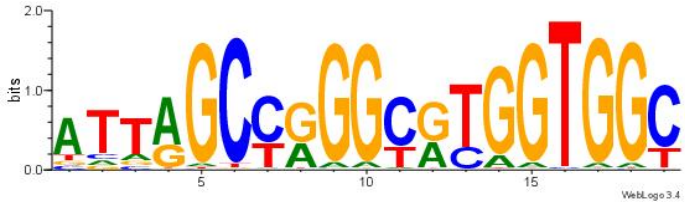

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

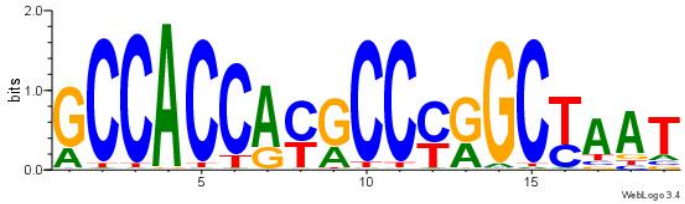

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.110084

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

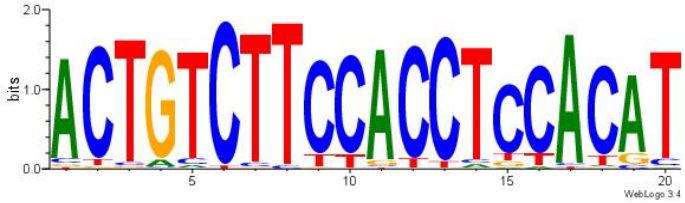

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

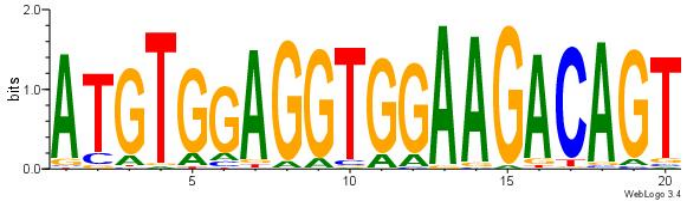

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.110167

Alignment:
GCCAGTCACAAAARGACAMA
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

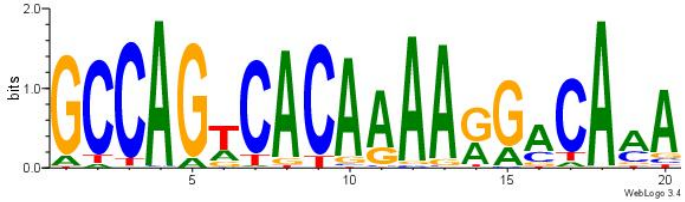

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

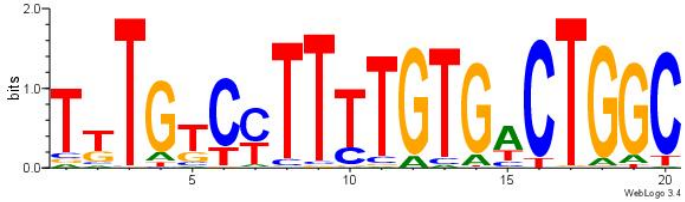

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.110517

Alignment:
TCCAAATGGGAGAAATTGGC
-ATACAATGGGGGTACAGRC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

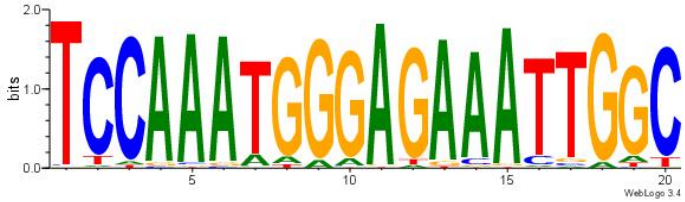

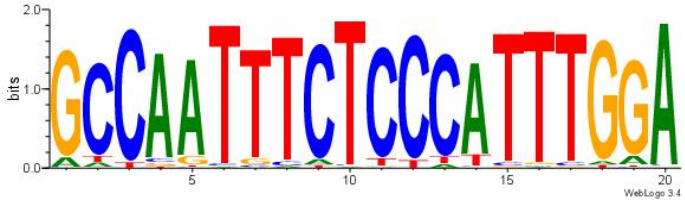

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.111638

Alignment:

```
AGTGAGAACATRYRRTRTTT
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

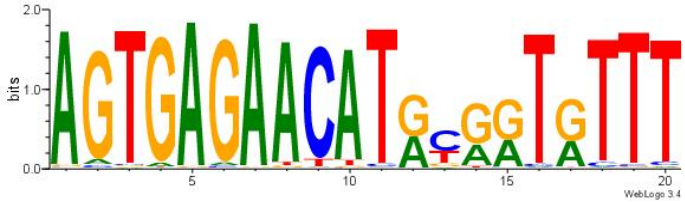

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

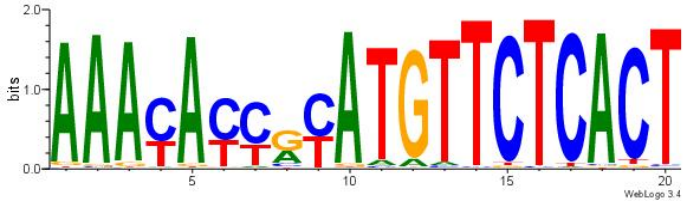

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.112086

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

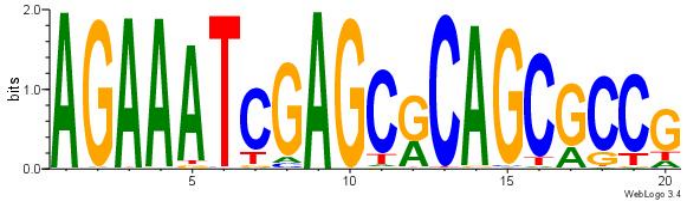

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

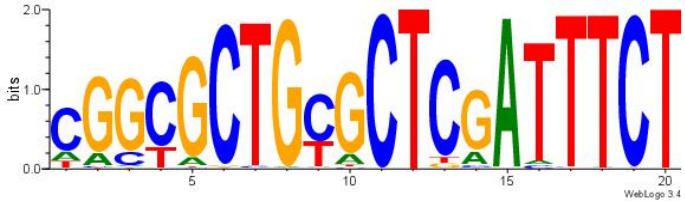

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.114256

Alignment:
CTGGGTCCCCCAGCAGTGCC
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

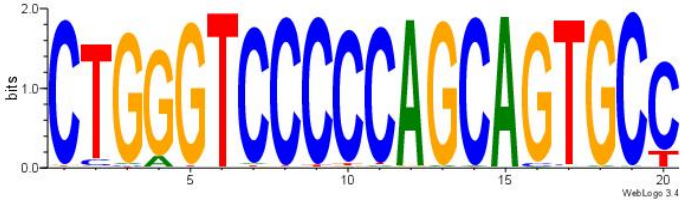

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

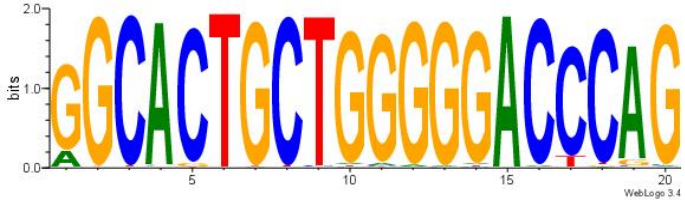

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.115874

Alignment:
CAACATGGATGRARCTGGAG
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

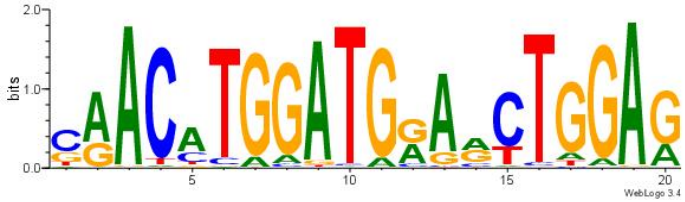

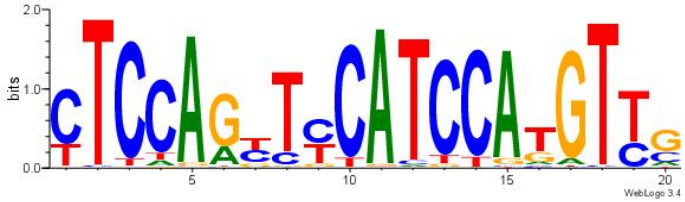

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116724

Alignment:

```
GTKTMTATMTACCACATTTT
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

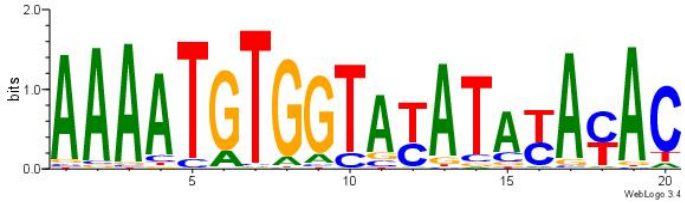

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

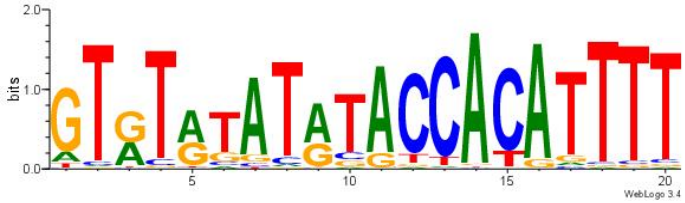

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.116728

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
-GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

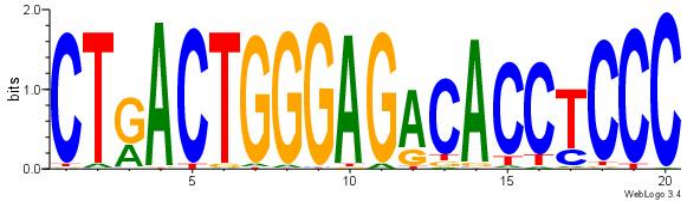

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

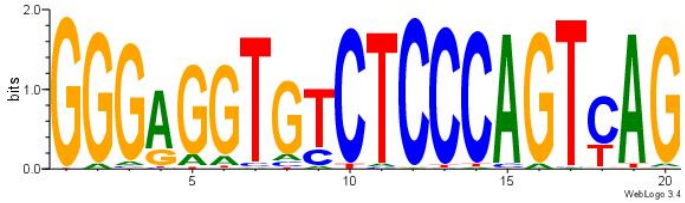

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.117268

Alignment:
AGGACTGAGGGTGCCYRGGG
-ATACAATGGGGGTACAGRC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

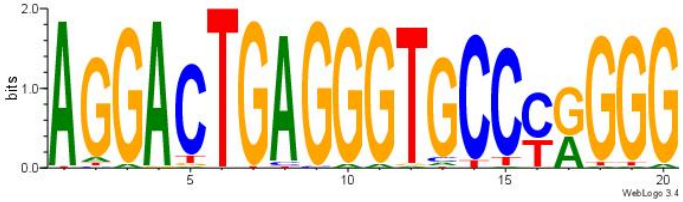

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

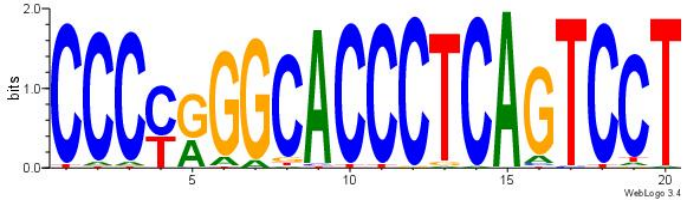

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.118945

Alignment:
TTTYTWTTTTTTYTWGAGAC
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

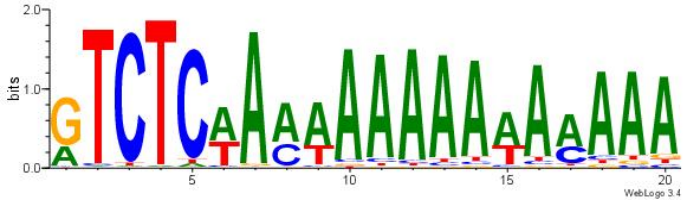

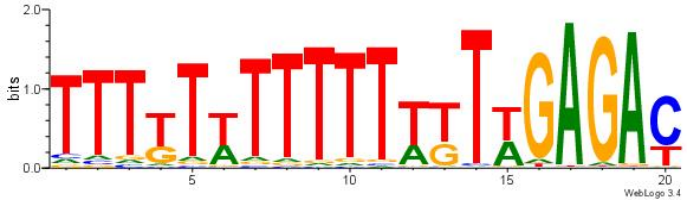

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.119323

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

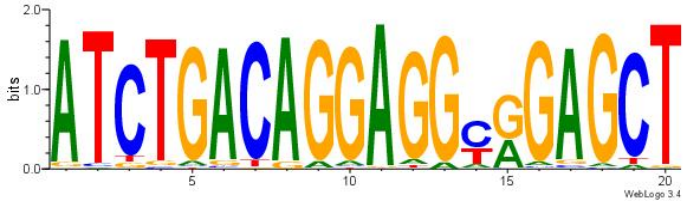

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

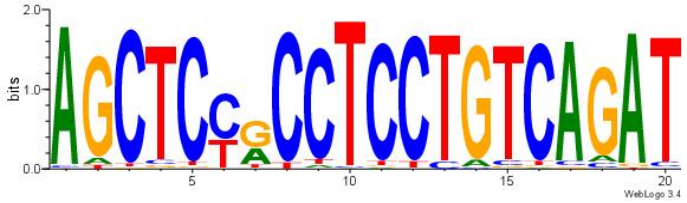

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.120275

Alignment:
GTAGACKGGAGCTGTTCCT
ATACAATGGGGGTACAGRC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

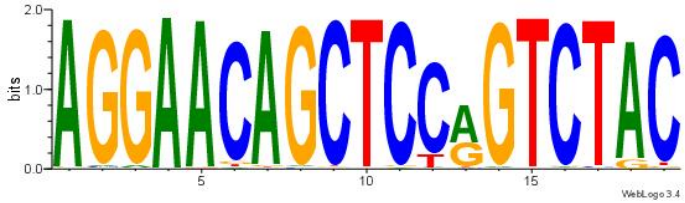

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

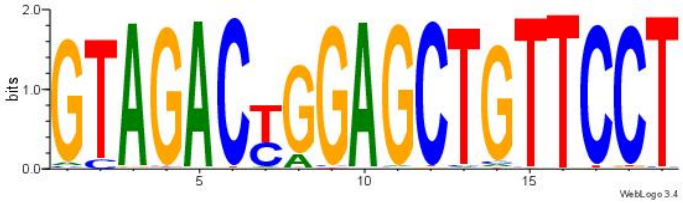

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.120493

Alignment:
AWTKKTGGTTKCCAGKGGCT
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

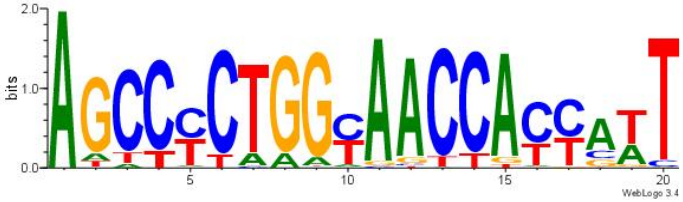

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

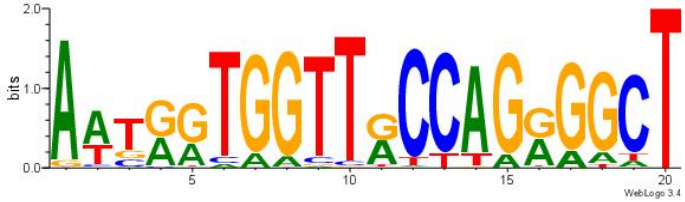

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.121487

Alignment:
GCTGTGTGACCTTGGGCAAG
GKCTGTACCCCCATTGTAT-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

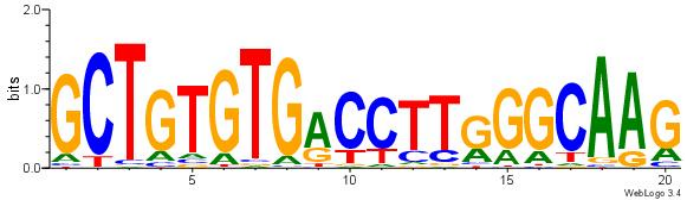

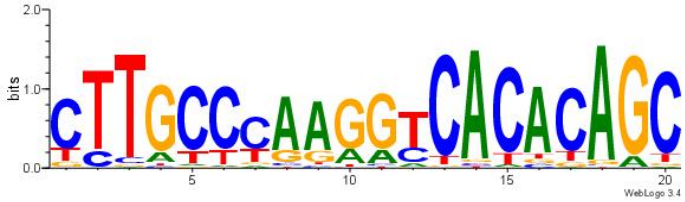

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.121653

Alignment:

```
ATTCAASATGAGATTTGGG
ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

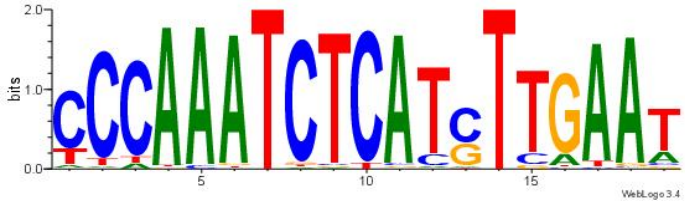

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

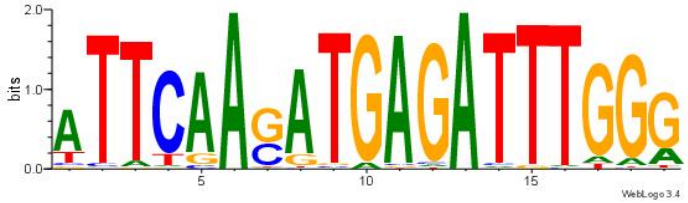

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.121844

Alignment:

```
VMATTTAKTGAGCACCTACT
-ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

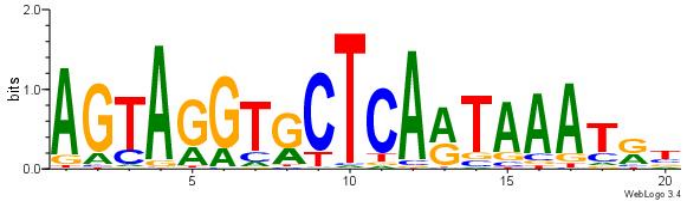

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

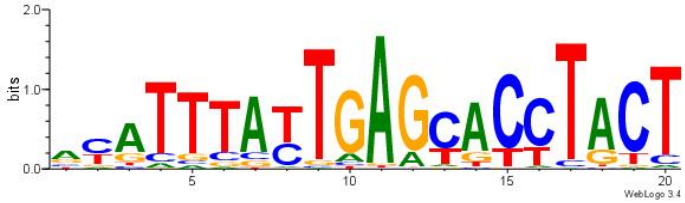

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.122821

Alignment:
AAAGCTGGAGCTATTATCTA
GKCTGTACCCCCATTGTAT-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

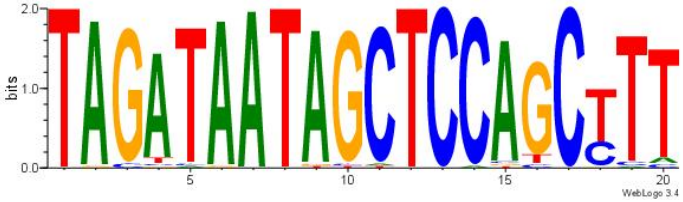

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

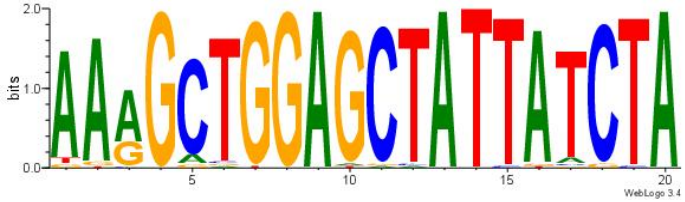

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.123112

Alignment:
GAAHCAACCKAAKTGTCCAT
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

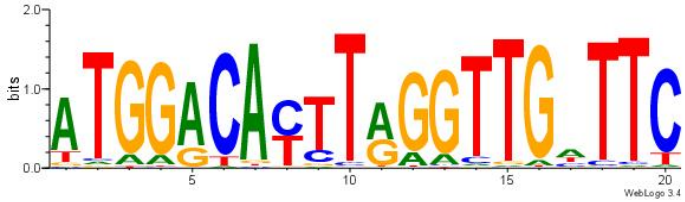

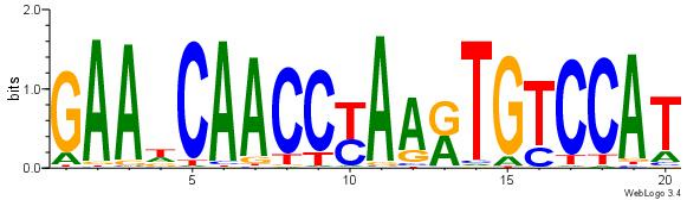

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.124238

Alignment:

```
CMTAGYACAGTGCCTGGCAC
ATACAATGGGGGTACAGRC-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

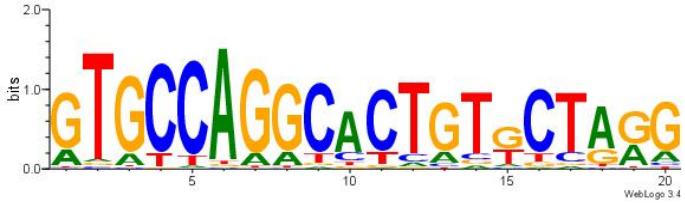

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

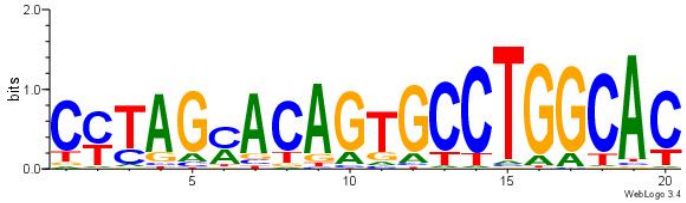

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.124328

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

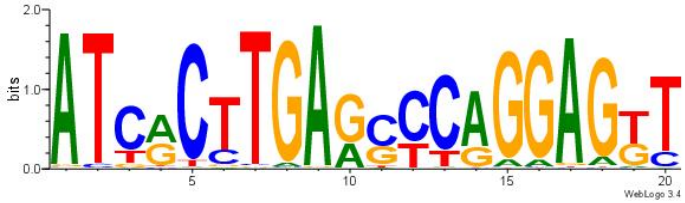

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

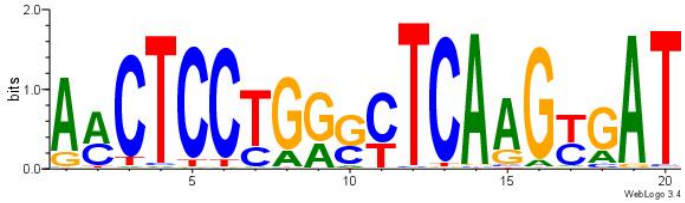

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.124494

Alignment:
GGGTGCAGGMGGGCTGAGT
GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

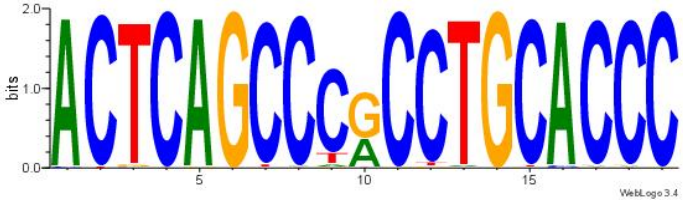

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

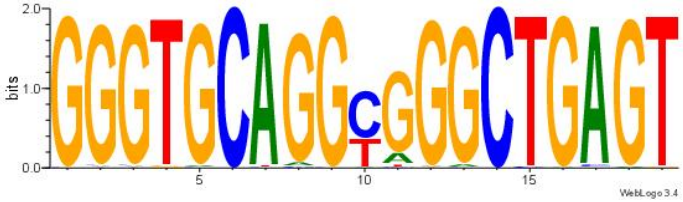

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.124674

Alignment:
TWTACCTATGTAACAAACCT
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

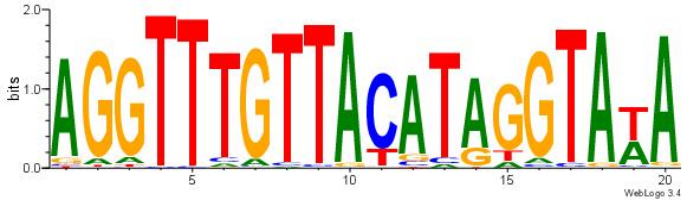

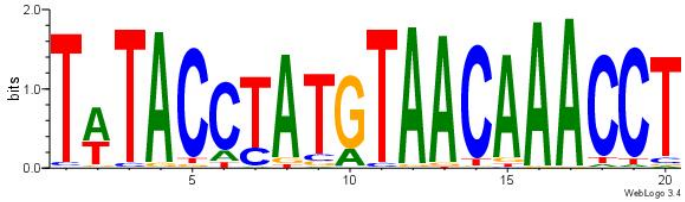

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.124703

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

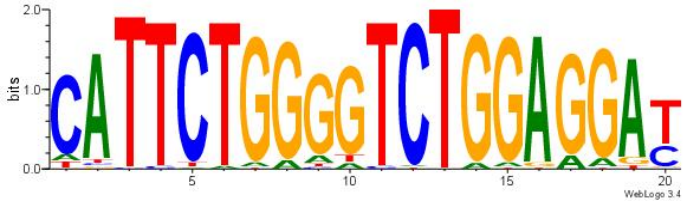

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

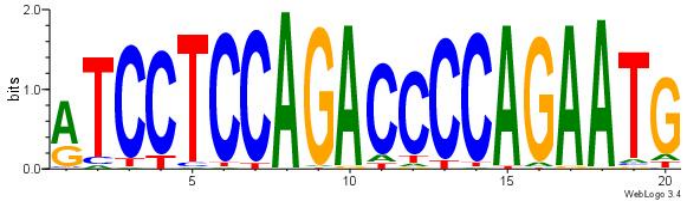

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.125567

Alignment:

```
AATCAACCCTGGYRATCAAT
ATACAATGGGGGTACAGRC-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

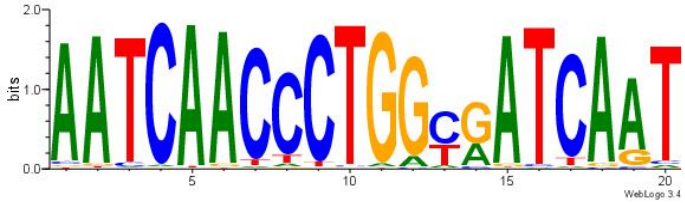

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

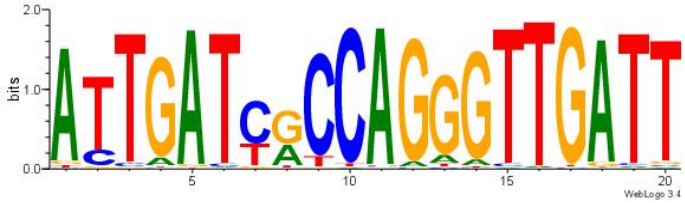

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.125591

Alignment:
TCTCTCTCTCTCTCTCTCTC
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

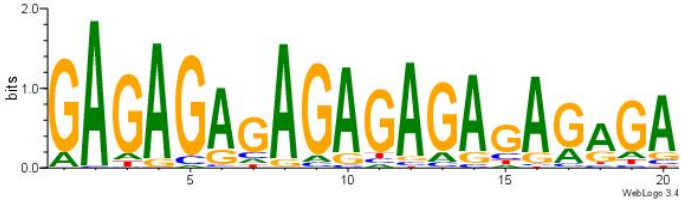

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

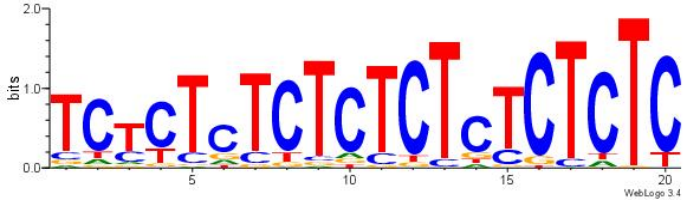

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.125951

Alignment:
AAATTACCCAGTCTCAGGTA
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

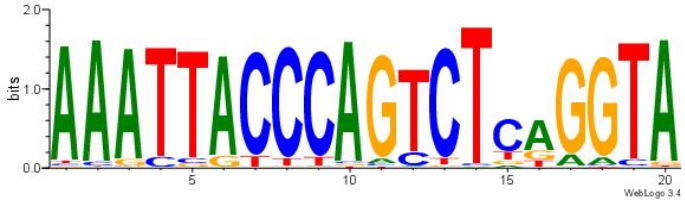

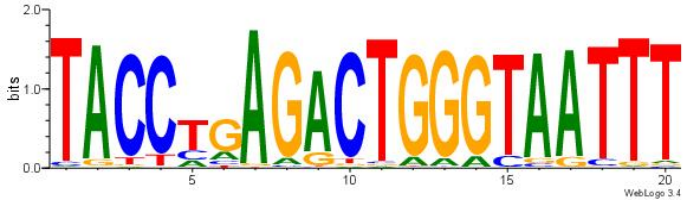

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.126152

Alignment:

```
TTGTCCCACTGGAAGGTCTT
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

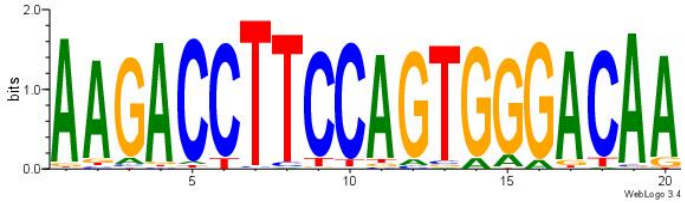

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

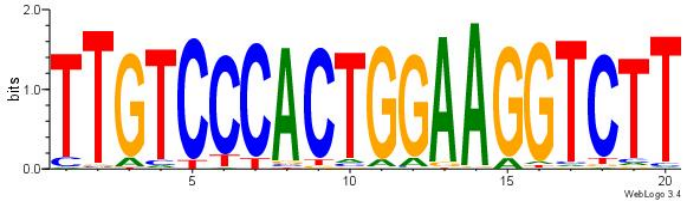

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.127209

Alignment:

```
GGTTCATCTCACTAGGGAGT
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

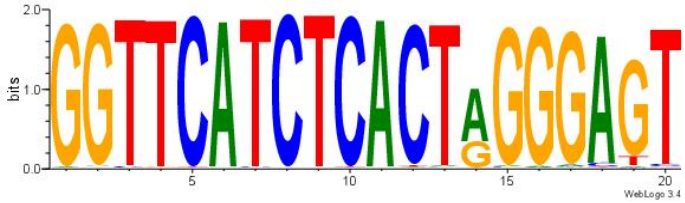

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

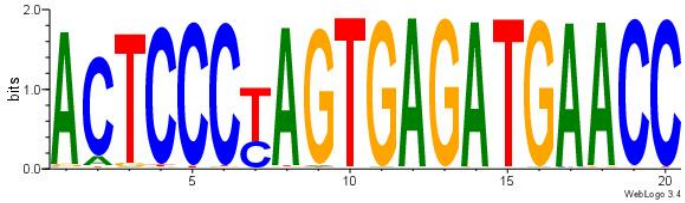

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.127302

Alignment:
KKCACCTTGATCTTGGACTT
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

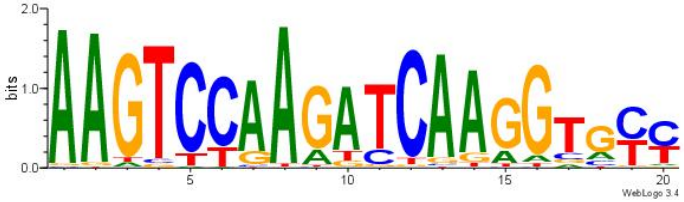

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

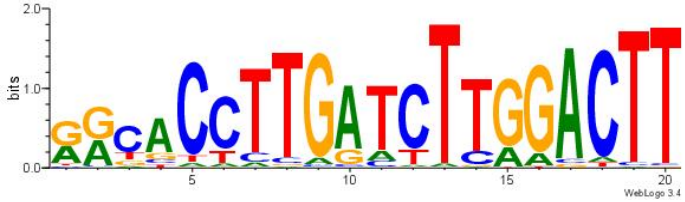

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.127392

Alignment:
TGGCTTCACCCAGTGGATCC
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

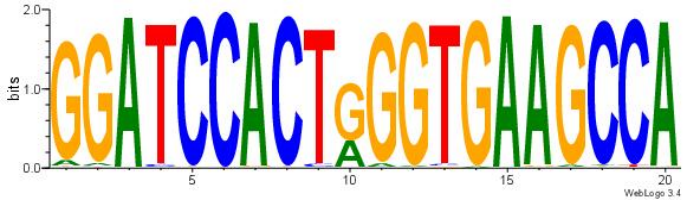

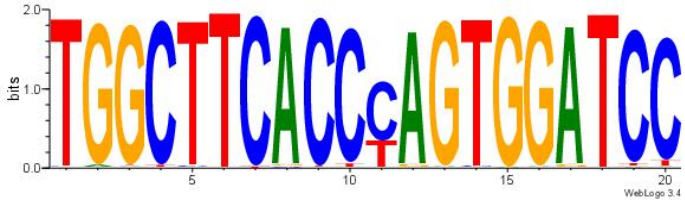

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.128116

Alignment:

```
GTCCCATCGACCACCCAAG
GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

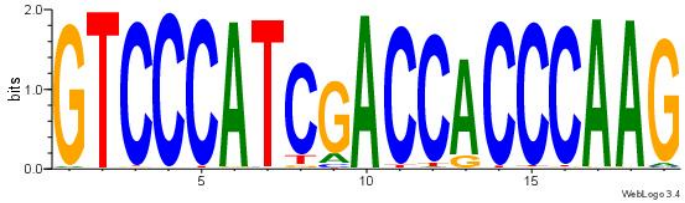

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

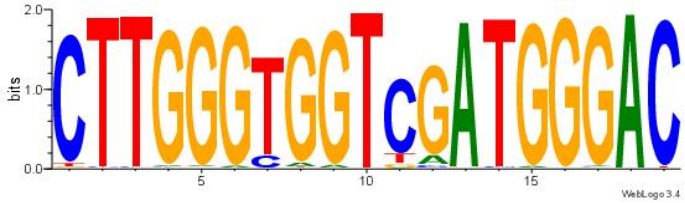

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.12814

Alignment:

```
GTAACACTCACCGCGARGGT
-ATACAATGGGGGTACAGRC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

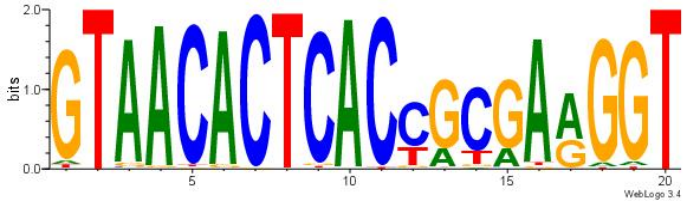

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

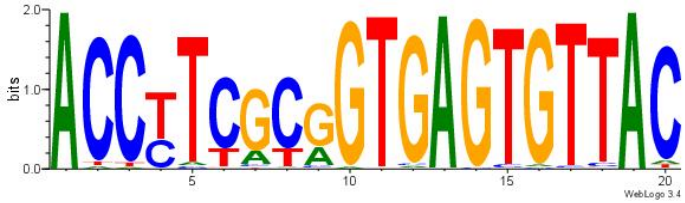

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.128304

Alignment:
GCTGGAGTGCAGTGGCRYGA
-ATACAATGGGGGTACAGRC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

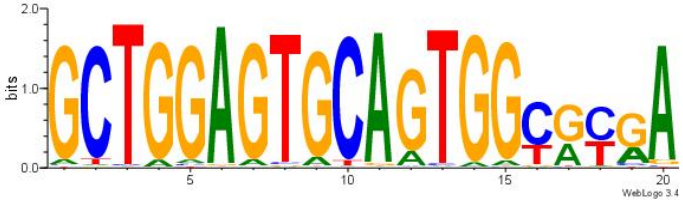

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

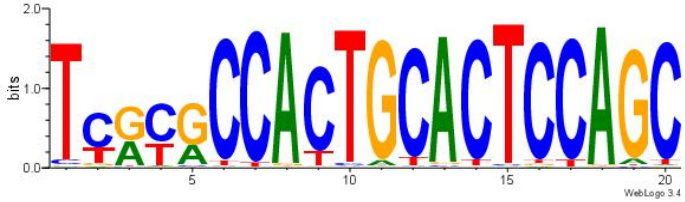

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.128616

Alignment:
TMGGGAGGCTGAGGCAGGAG
-ATACAATGGGGGTACAGRC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

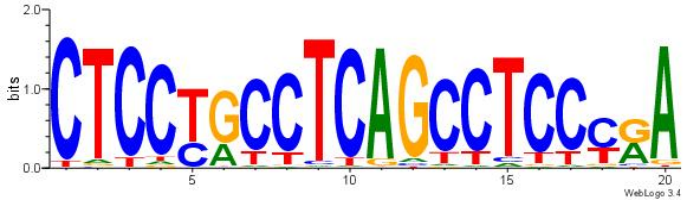

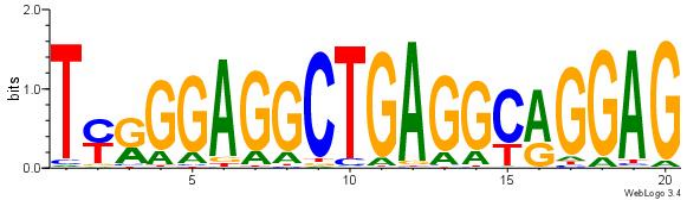

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.128756

Alignment:

```
ATGGCTGAATAKTATTCCAT
-GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

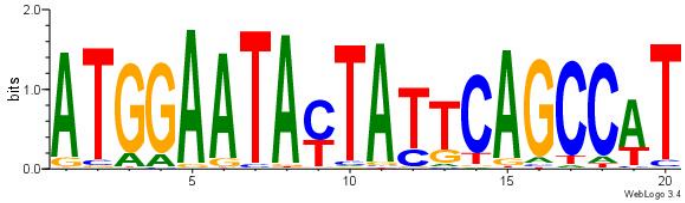

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

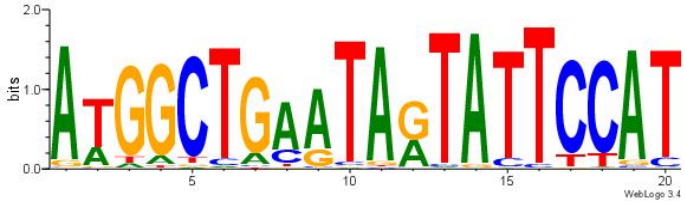

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129109

Alignment:

```
CTCAGTGTTAATCTCCTGTC
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

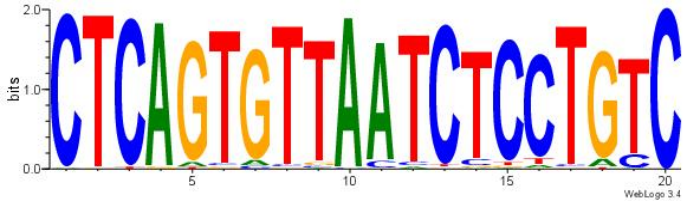

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

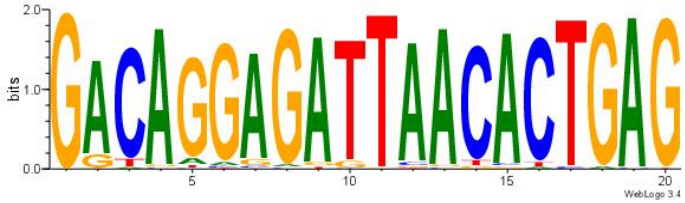

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.129826

Alignment:
GACTGGCAGGCAGCTCCACC
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

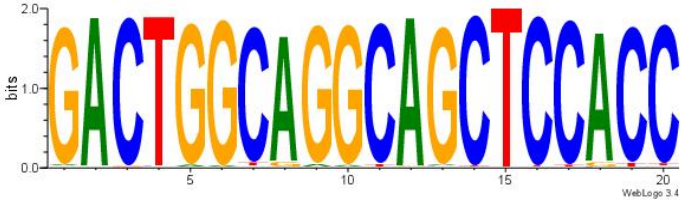

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

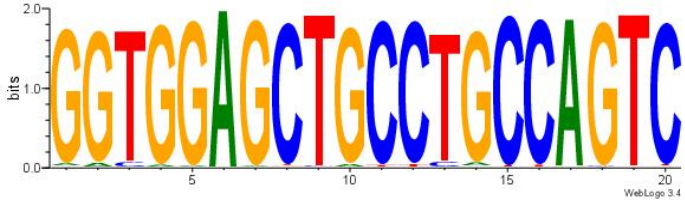

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.129982

Alignment:
TAAAAGACTACAWATTGGGT
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

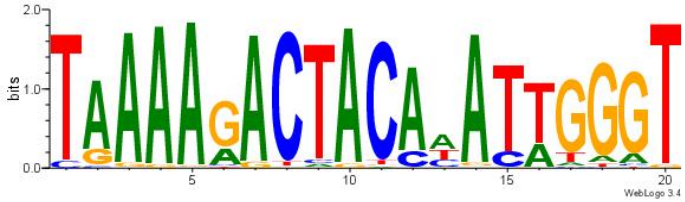

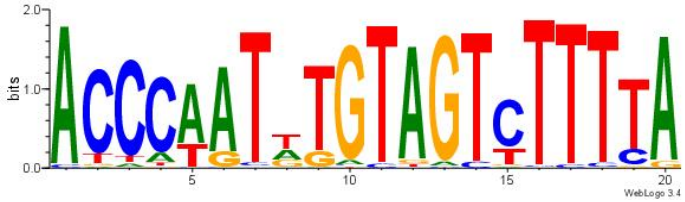

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13071

Alignment:

```
AATGAKATCATGTCYTTTGC
ATACAATGGGGGTACAGRC-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

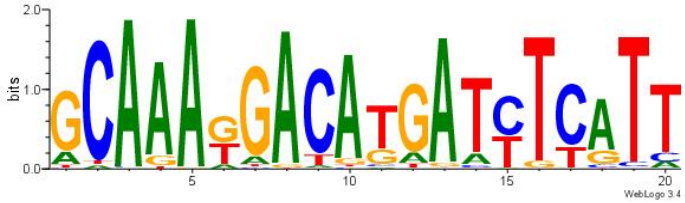

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

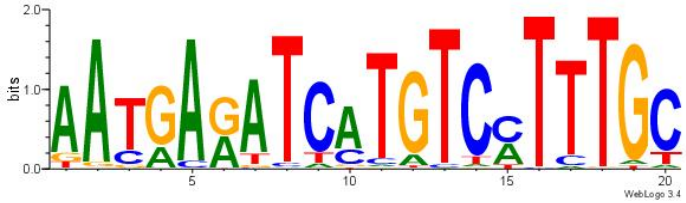

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130993

Alignment:

```
GTTATTAATTGGCCTAATTT
-GKCTGTACCCCCATTGTAT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

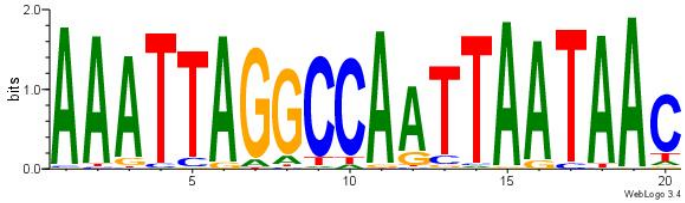

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.131353

Alignment:
CAGGTGGTKTTTGGTTACAT
-GKCTGTACCCCCATTGTAT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

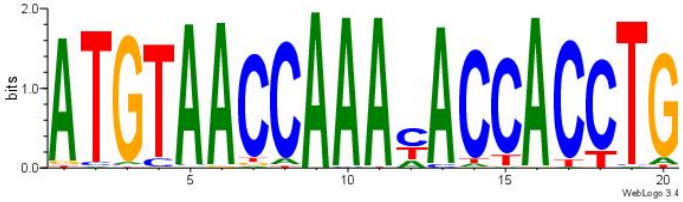

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

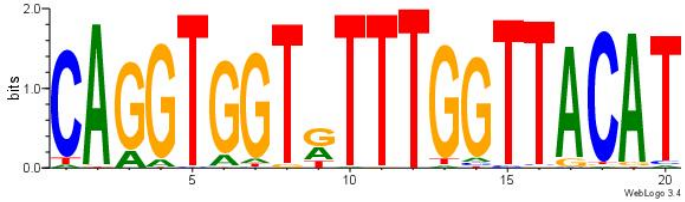

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.132008

Alignment:
GTTGTGAGGATTAAATGAG
ATACAATGGGGGTACAGRC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

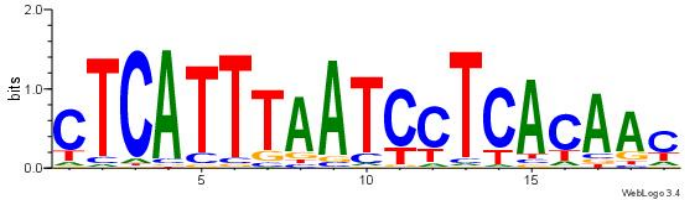

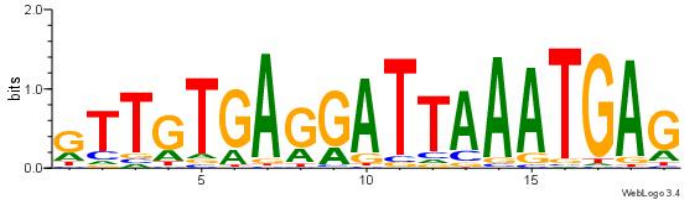

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132074

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

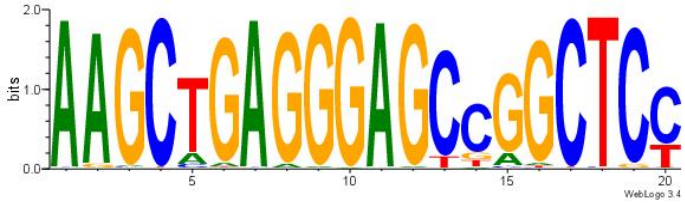

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

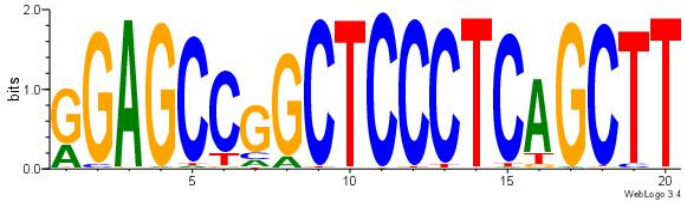

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132736

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GKCTGTACCCCCATTGTAT-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

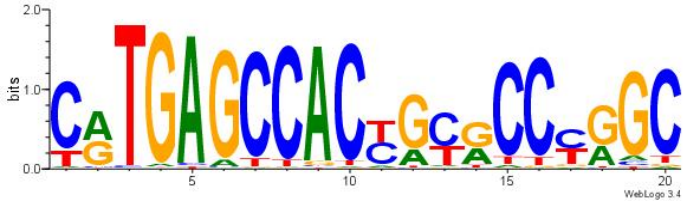

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

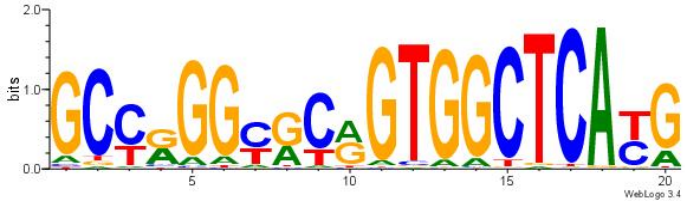

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.13343

Alignment:
GCTCCACCCAGTTCGAGCTT
ATACAATGGGGGTACAGRC-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

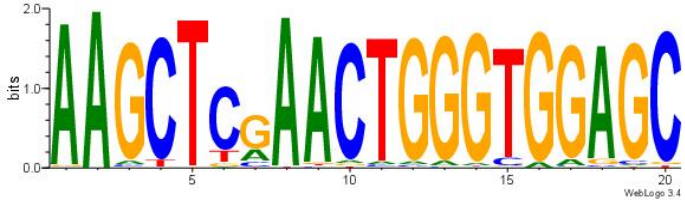

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

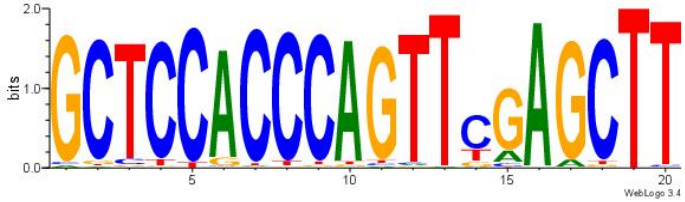

Dataset #: 1 Motif ID: 194 Motif name: Motif 194

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

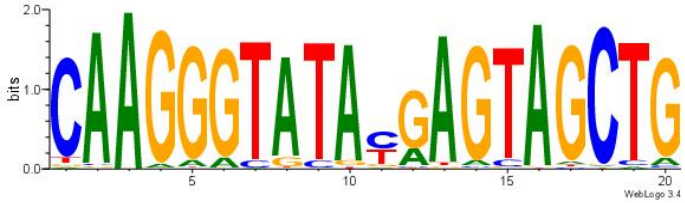

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

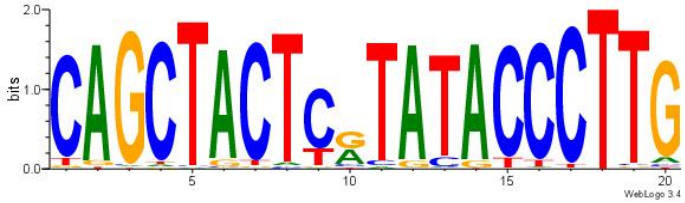

Best Matches for Motif ID 194 (Highest to Lowest)

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.111361

Alignment:
GCGCTCKTCGGGGAGGCTCG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

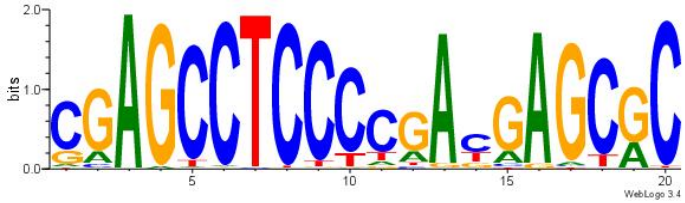

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

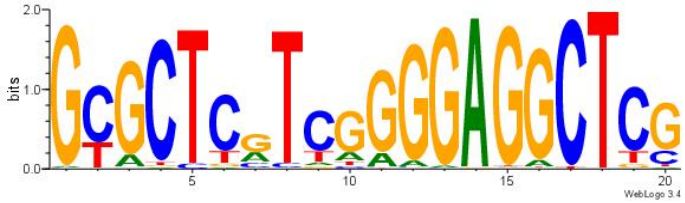

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126829

Alignment:

CAAGTTGACACATAAAATTA
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

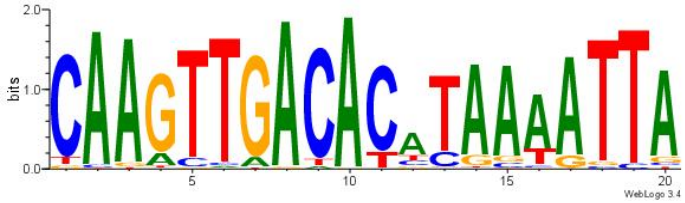

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

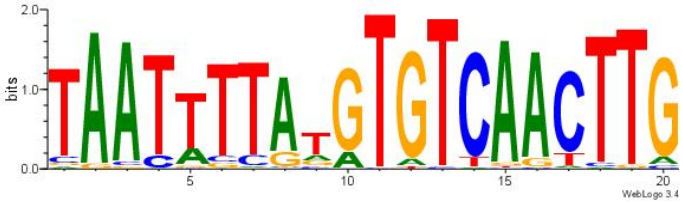

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13392

Alignment:
TAGATAATAGCTCCAGCTTT
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

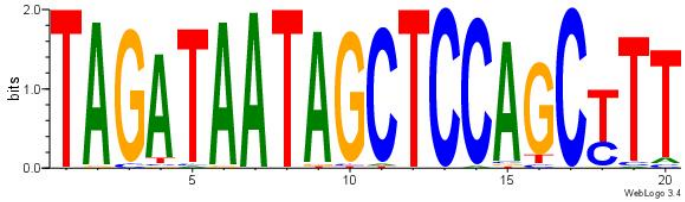

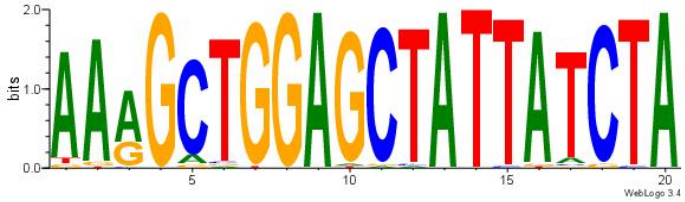

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134335

Alignment:

```
ATGATCCAGCAATYCCACTH
CAGCTACTCKTATACCCTTG
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

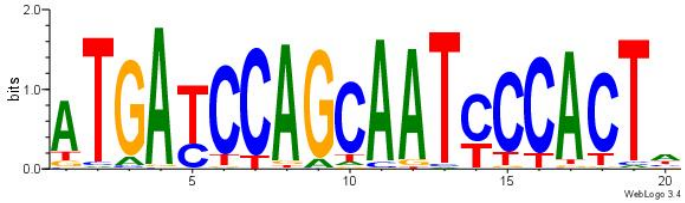

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

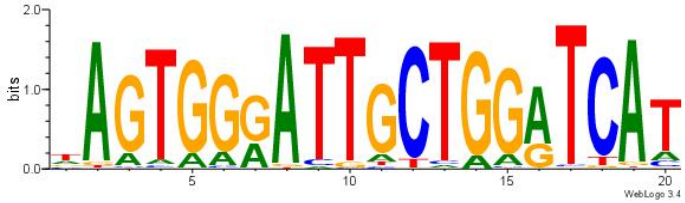

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134728

Alignment:

```
CAAGCCTSKGCAATGGCAGG
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

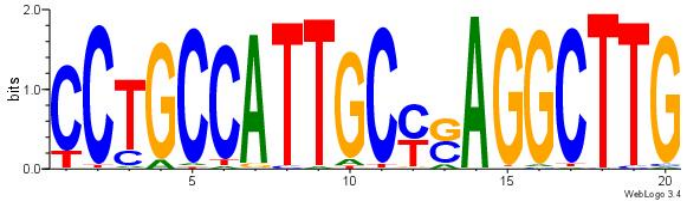

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

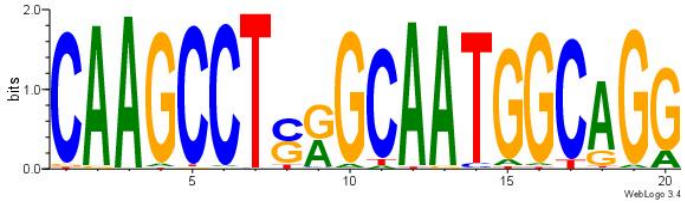

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.136505

Alignment:
MGTCTMKCTCTGTKGCCCAG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

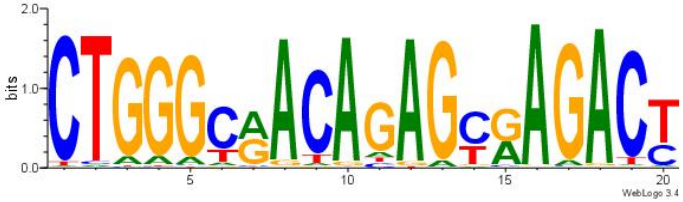

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

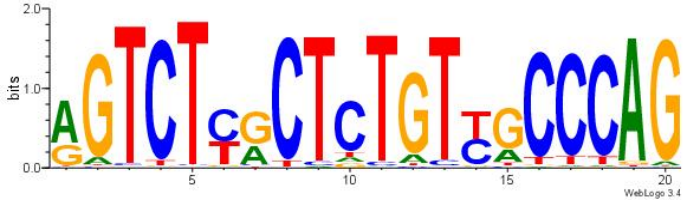

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.137311

Alignment:
TAAAAGACTACAWATTGGGT
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

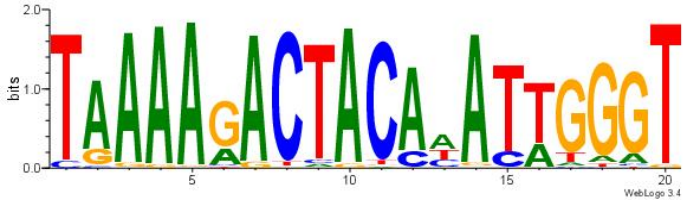

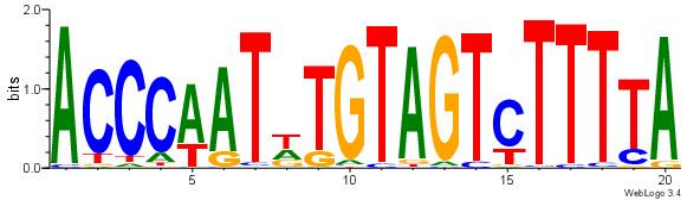

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137788

Alignment:
GCAAAKGACATGATYTCATT
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

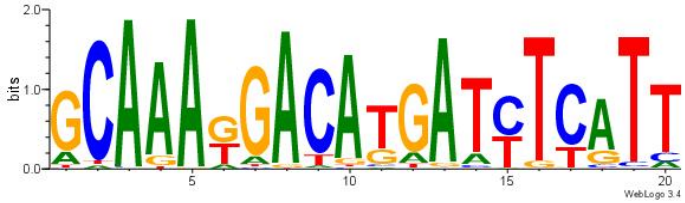

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

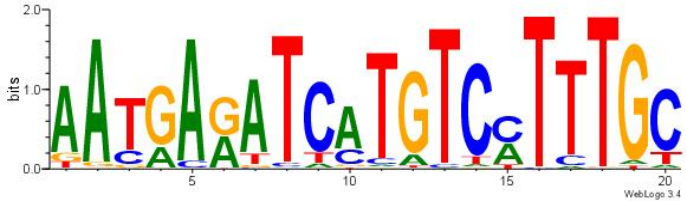

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139064

Alignment:
AAAMAMMKMATGTTCTCACT
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

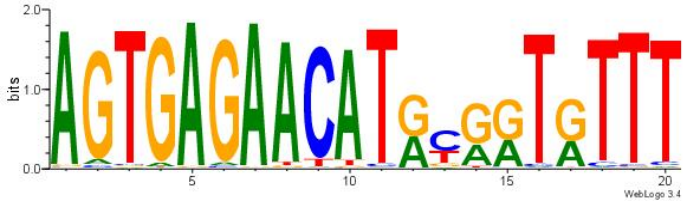

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

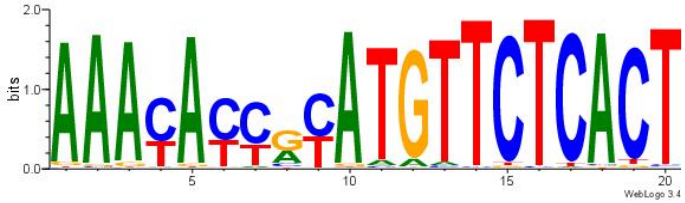

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139818

Alignment:
CACCAGGAGATTATATCCCR
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

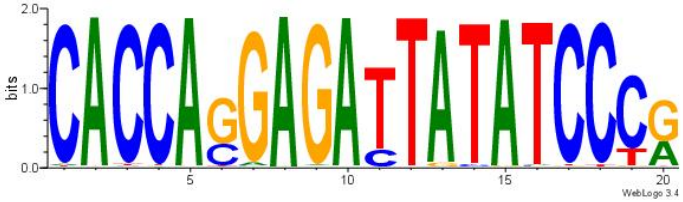

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

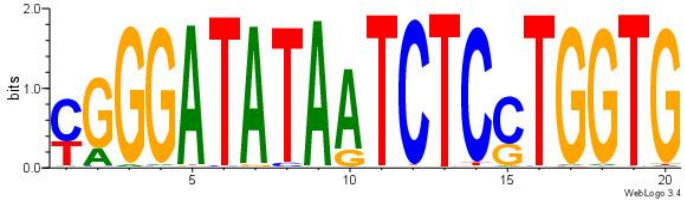

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143711

Alignment:
ATGTAACCAAAYACCACCTG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

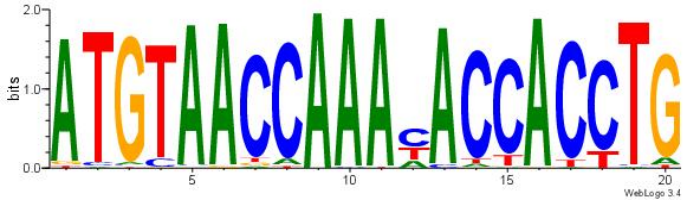

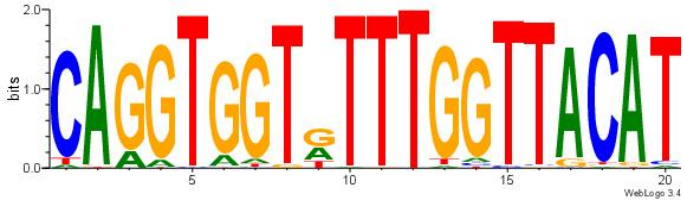

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14588

Alignment:

```
GTKTMTATMTACCACATTTT
CAGCTACTCKTATACCCTTG
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

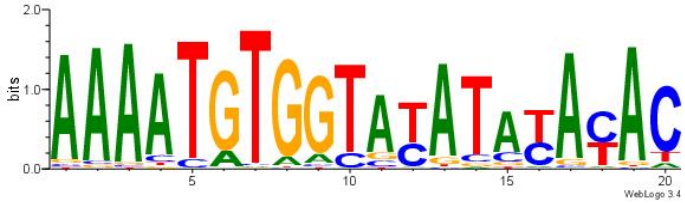

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

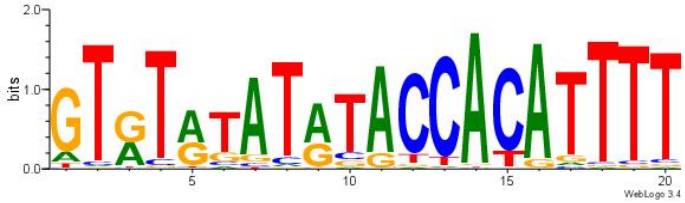

Dataset #: 1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146101

Alignment:

```
AAATTACCCAGTCTCAGGTA
CAGCTACTCKTATACCCTTG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

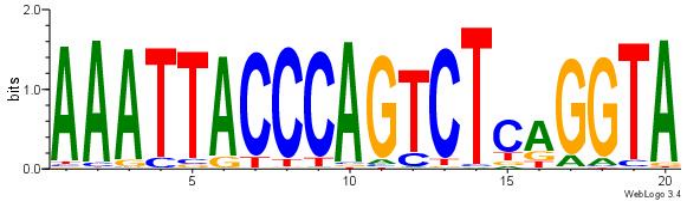

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

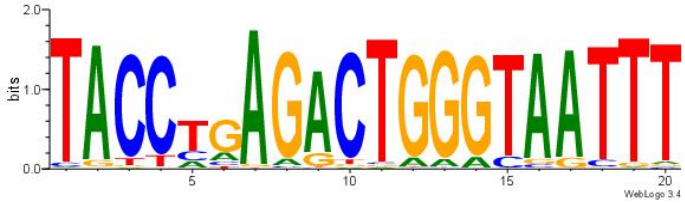

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.146537

Alignment:
TMGGGAGGCTGAGGCAGGAG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

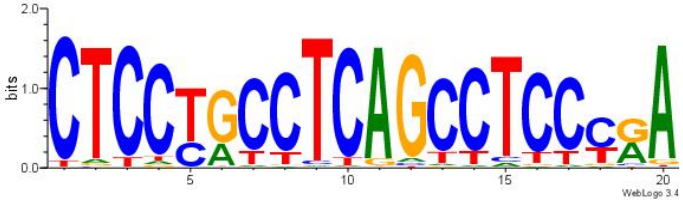

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

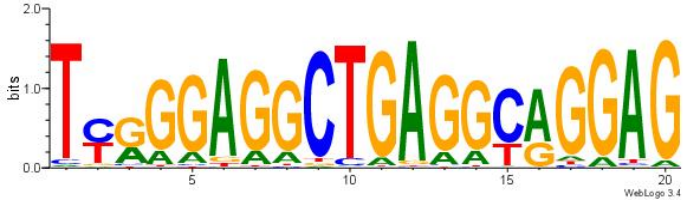

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146887

Alignment:
GAGAGAGAGAGAGAGAGAGA
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

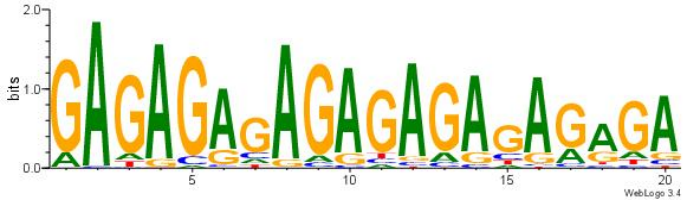

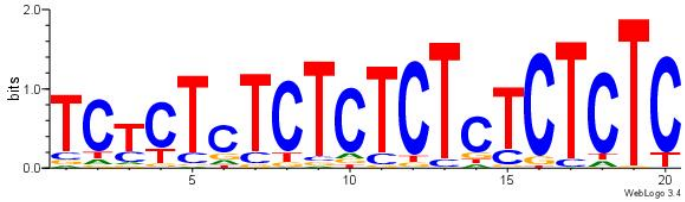

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147345

Alignment:
TGGAGAACCTTTATGTCTAG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

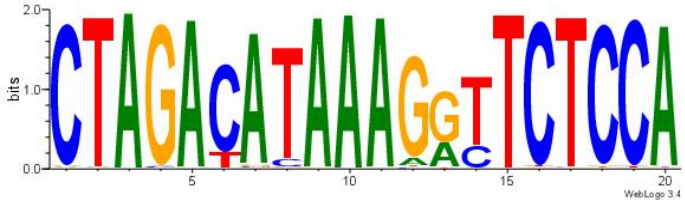

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

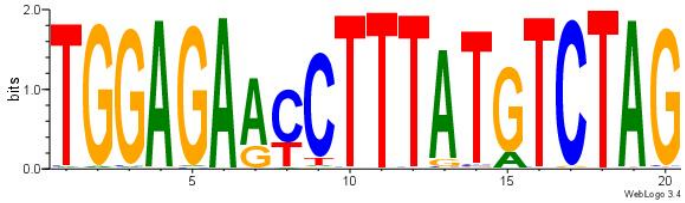

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147488

Alignment:
GTGCCAGGCACTGTKCTARG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

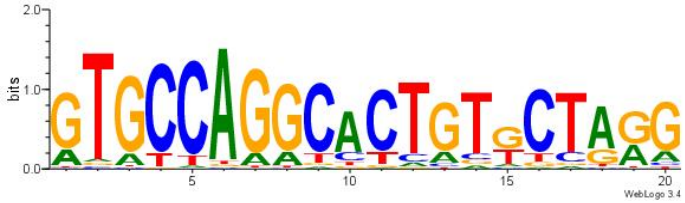

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

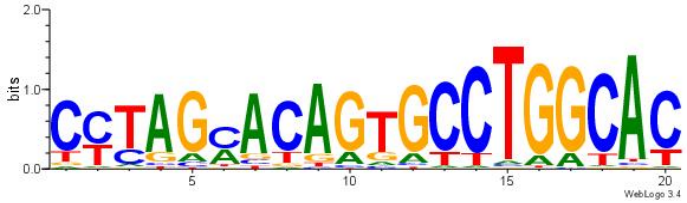

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147624

Alignment:
GTGGCCCTCTTCTCACAGCT
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

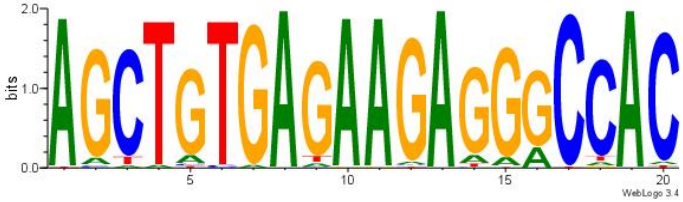

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

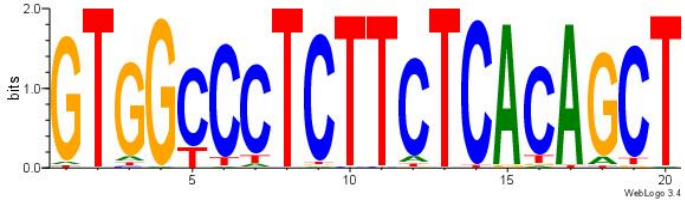

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.147733

Alignment:
AGGTTTGTTACATAGGTAWA
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

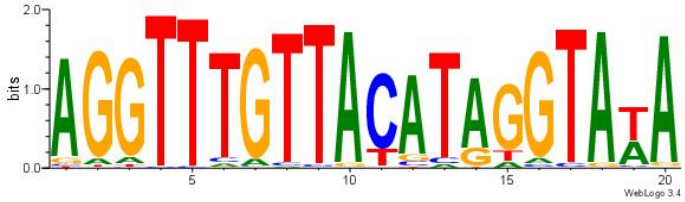

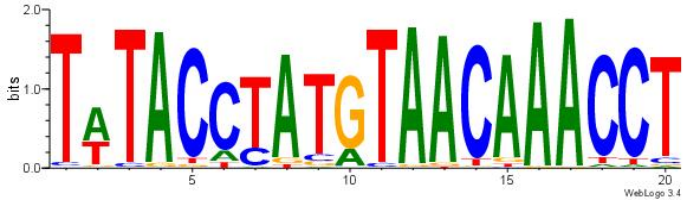

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148587

Alignment:
ATTGATMKCCAGGGTTGATT
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

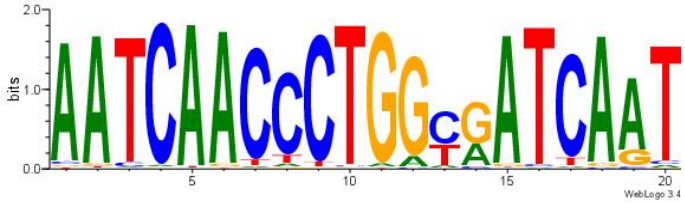

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

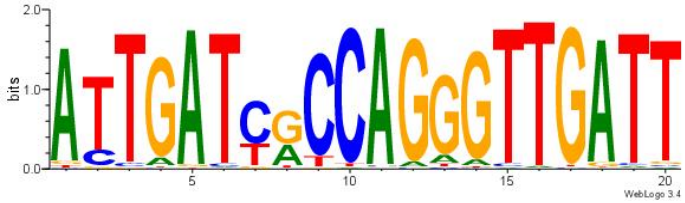

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148966

Alignment:

```
GGATCCACTGGGTGAAGCCA
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

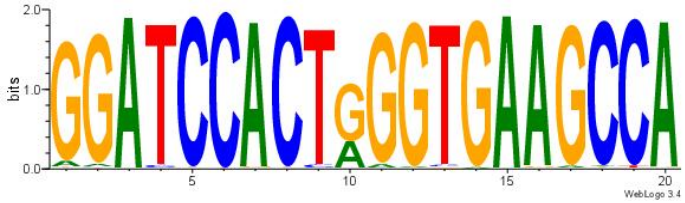

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

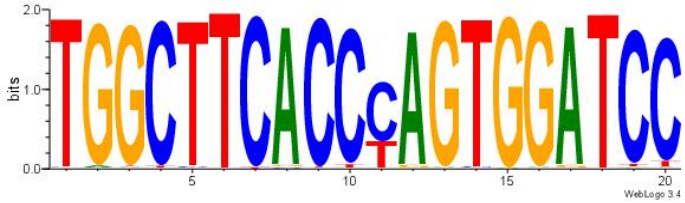

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148993

Alignment:
GAAAGGGAACTCCCTGACCC
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

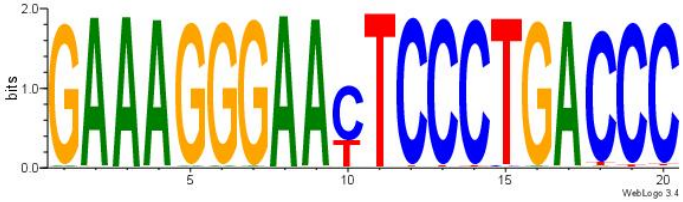

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

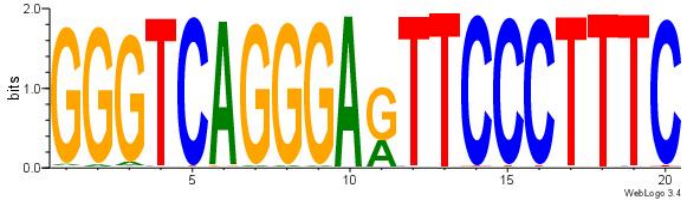

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150498

Alignment:
CTGGGCTCCTGAGTCTGGTG
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

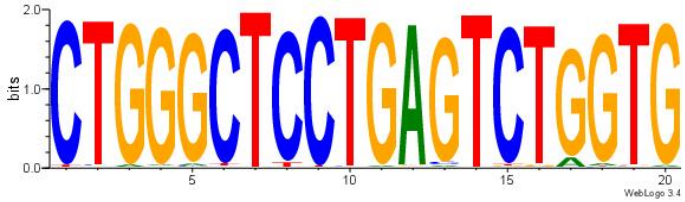

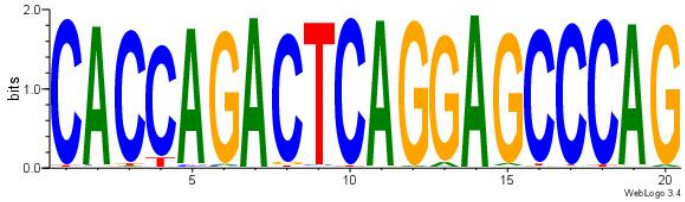

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151357

Alignment:
GGGCTCCCACAGTGCAGCGG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

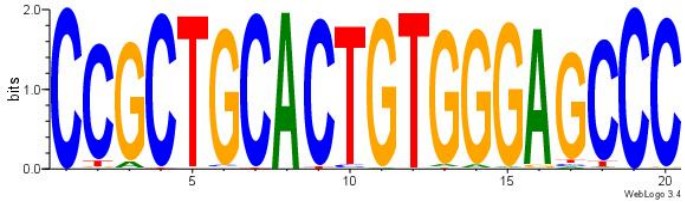

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

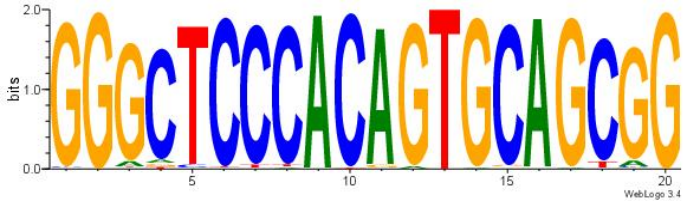

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153502

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

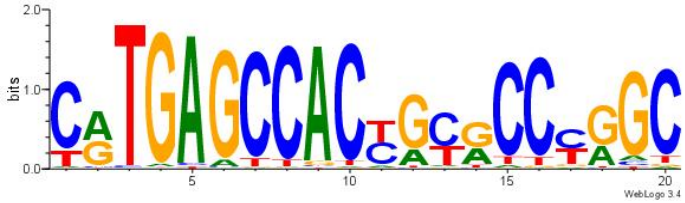

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

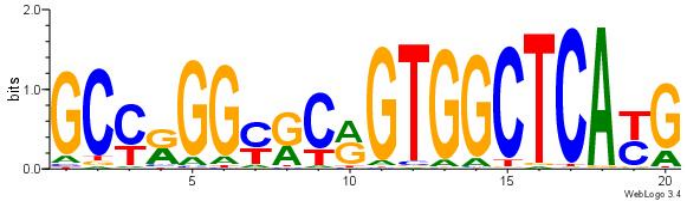

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153547

Alignment:
CAACATGGATGRARCTGGAG
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

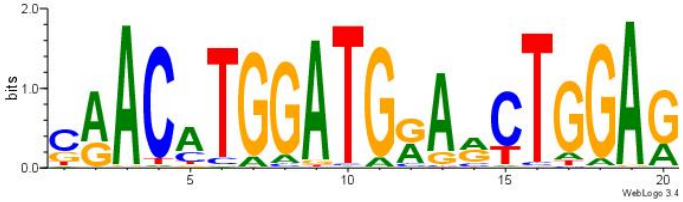

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

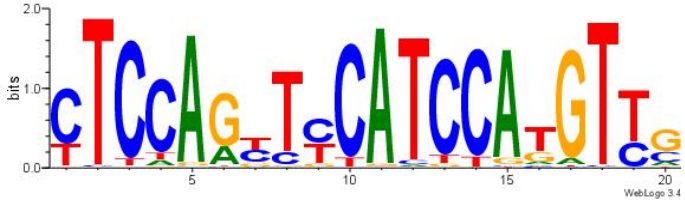

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154132

Alignment:
AAGCTGAGGGAGCCGGCTCC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

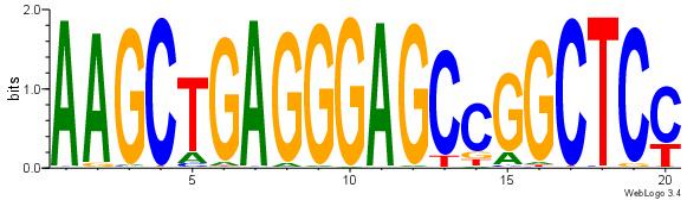

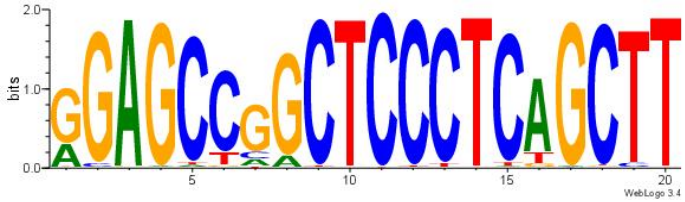

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154789

Alignment:
TCKMGCCACTGCACTCCAGC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

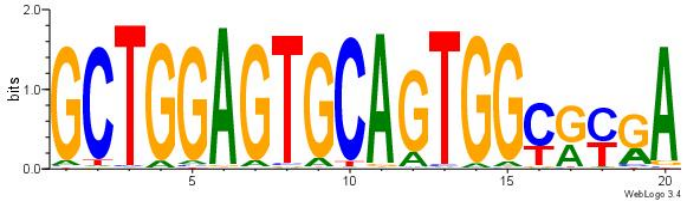

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

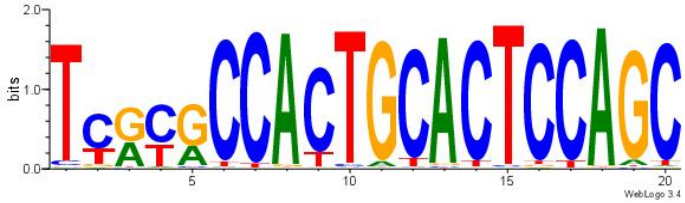

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155445

Alignment:

```
AGTAGGTGCTCARTAAATRB
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

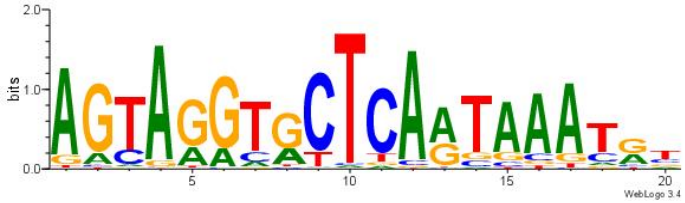

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

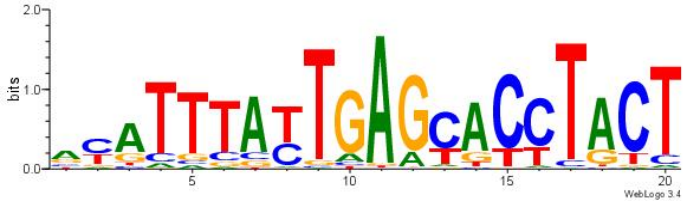

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155745

Alignment:
GAAHCAACCKAAKTGTCCAT
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

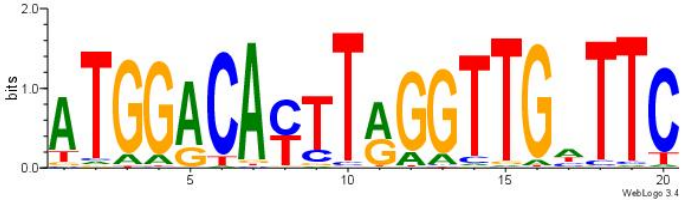

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

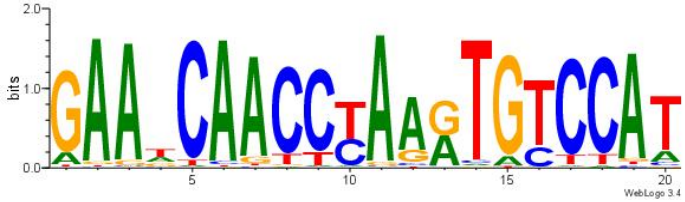

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155766

Alignment:
TYTGTCMTTTTGTGACTGGC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

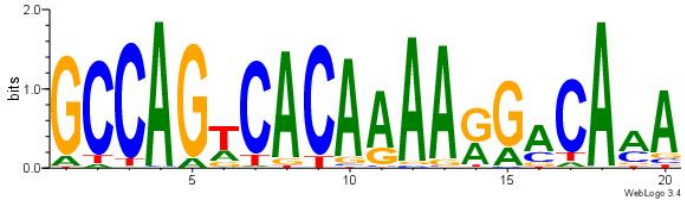

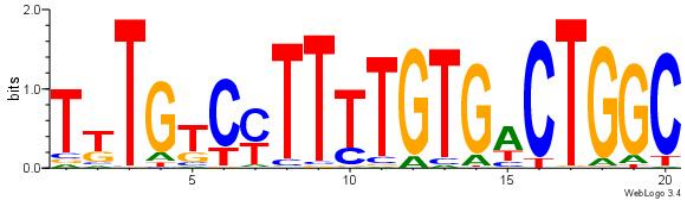

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155814

Alignment:
GAAACTGCTTTGTGATGTGT
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

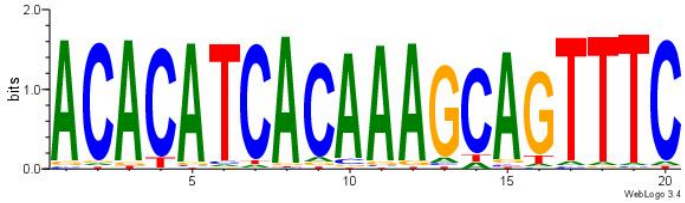

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

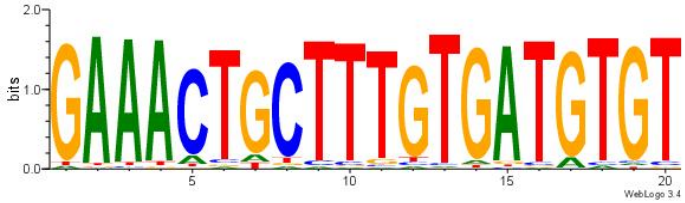

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156149

Alignment:

```
CCCATGCAAGTCYRAAATCC
CAGCTACTCKTATACCCTTG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

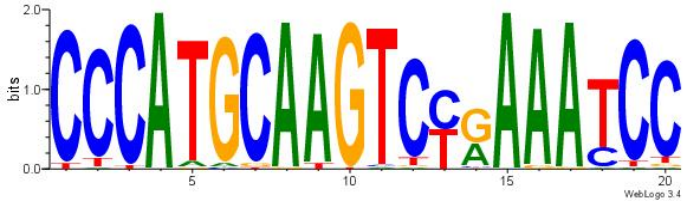

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

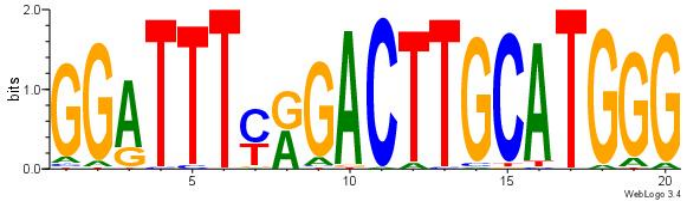

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157161

Alignment:
CTTGCCCAAGGTCACACAGC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

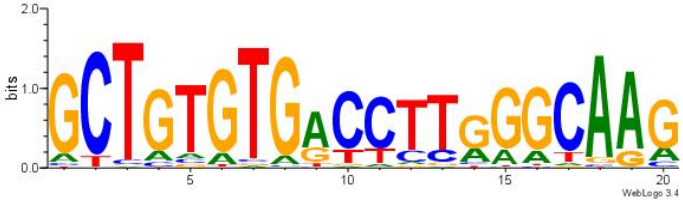

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

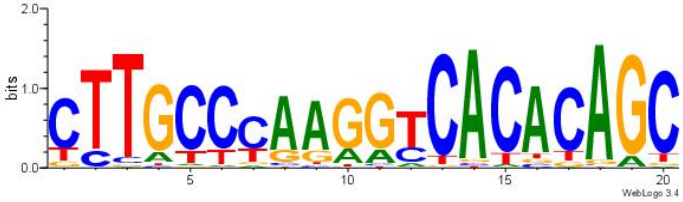

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157799

Alignment:
ACCGAGMKMGCAGCTTCGGG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

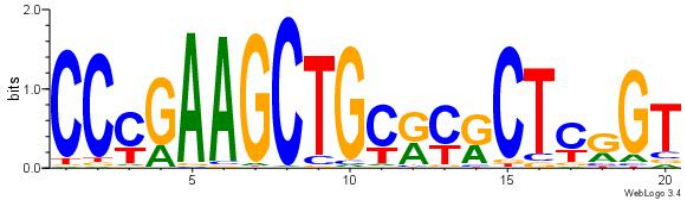

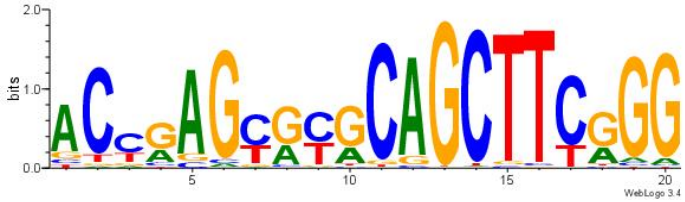

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158474

Alignment:

```
AAGCTCGAACTGGGTGGAGC
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

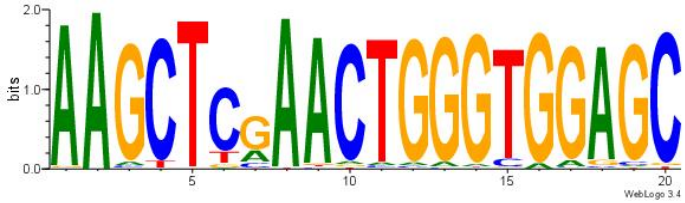

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

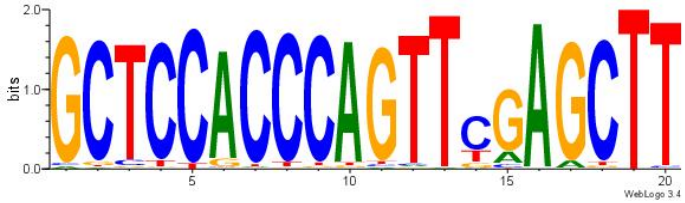

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161195

Alignment:

```
AGGTCCTTCAGGAGGTATTC
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

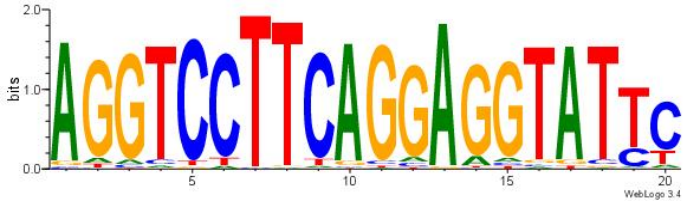

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

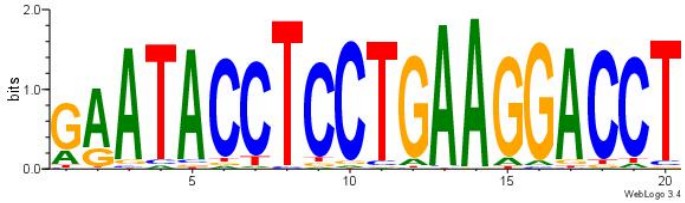

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161207

Alignment:
AAGTTCTKGGKTACATGTGC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

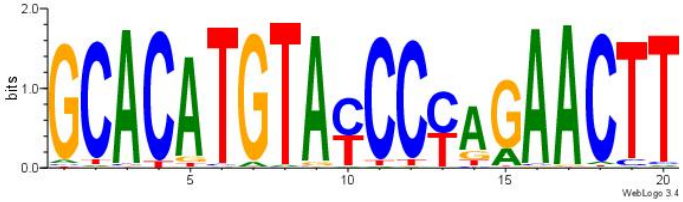

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

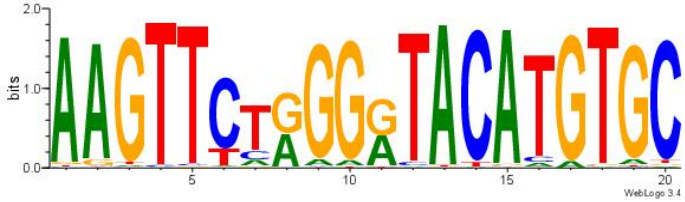

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.161898

Alignment:
AAATTAGGCCAATTAATAAC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

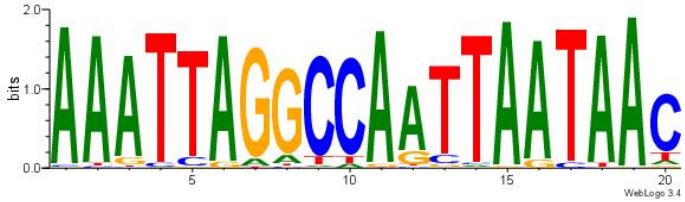

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162368

Alignment:
ATAGGAATGCTTGTGATTTT
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

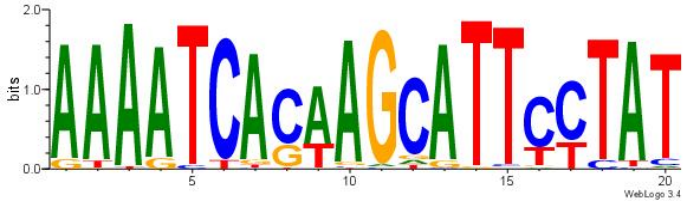

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

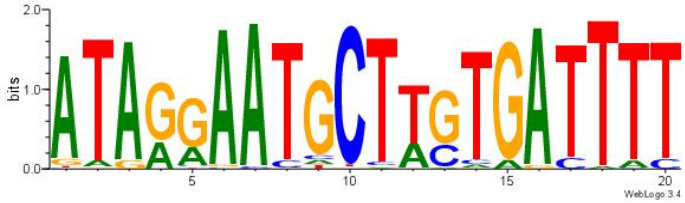

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162676

Alignment:

```
CCACCACAGCTCAAGGAGGC
CAGCTACTCKTATACCCTTG
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

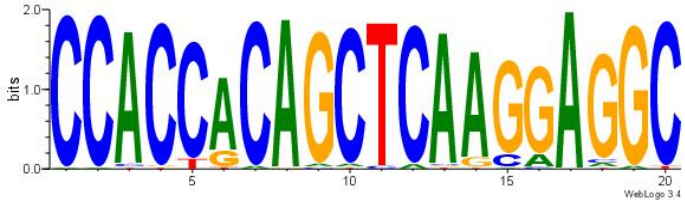

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

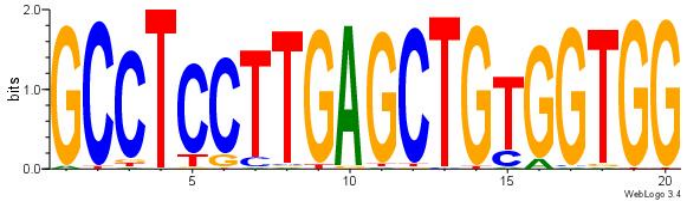

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.163727

Alignment:
KCCGGGCCTTAGCTGCCTTC
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

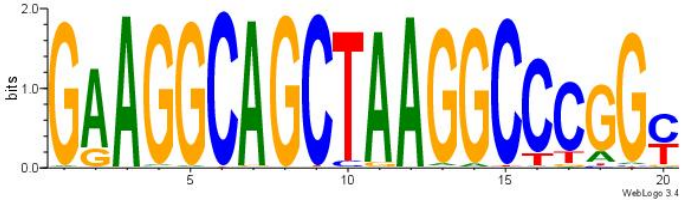

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

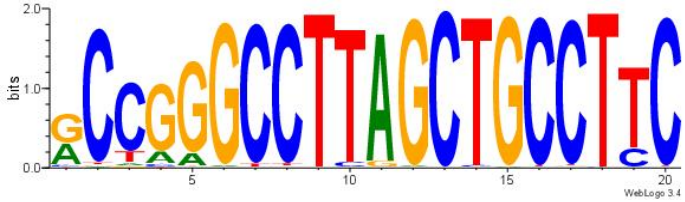

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164636

Alignment:
AAGGAACAAACTCCRGACAC
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

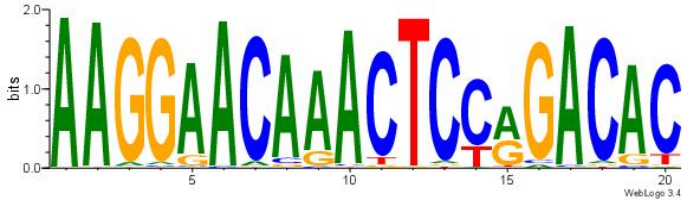

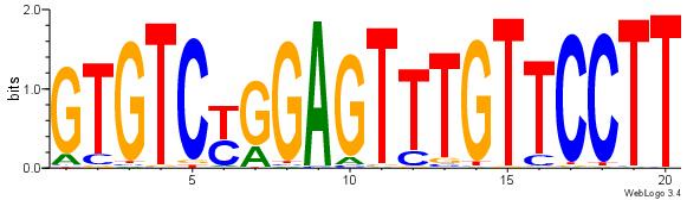

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16505

Alignment:

```
ACTTTGGACTGTGGACTTTT
CAGCTACTCKTATACCCTTG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

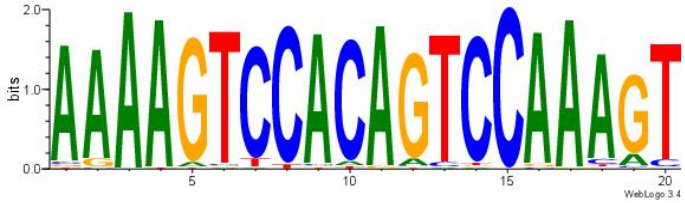

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

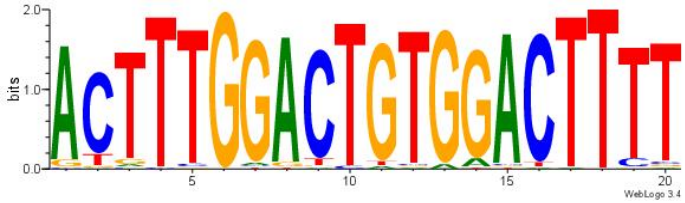

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165651

Alignment:
GACAGGAGATTAACACTGAG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

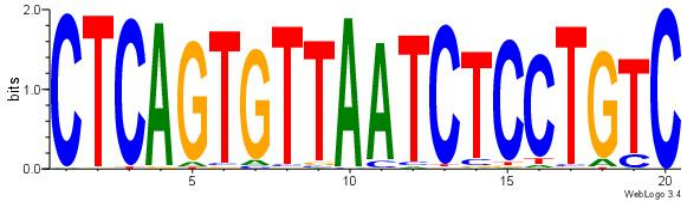

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

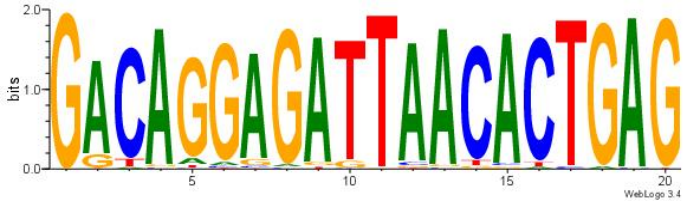

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16589

Alignment:
GGGAGGTGTCTCCCAGTCAG
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

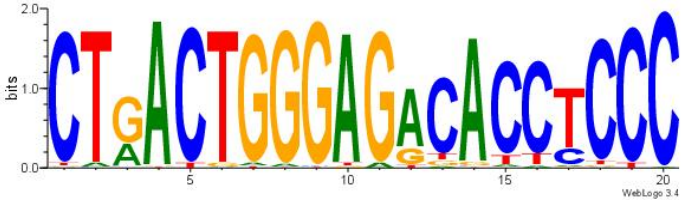

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

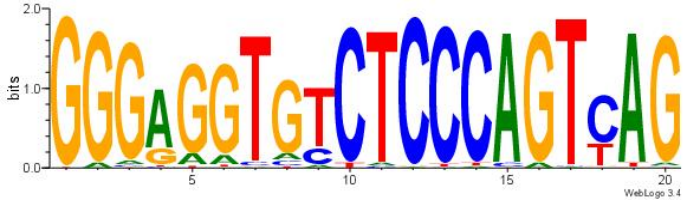

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.166578

Alignment:
MTCCTCCAGACCCCAGAATG
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

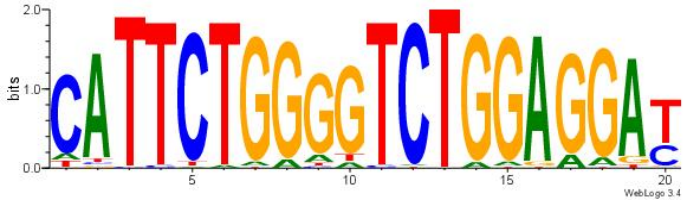

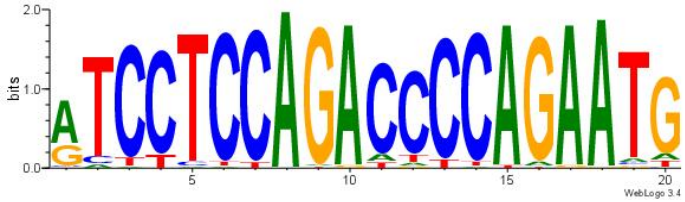

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167967

Alignment:
TTTYTWTTTTTTYTWGAGAC
CAGCTACTCKTATACCCTTG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

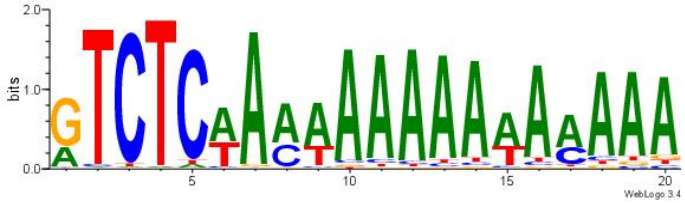

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

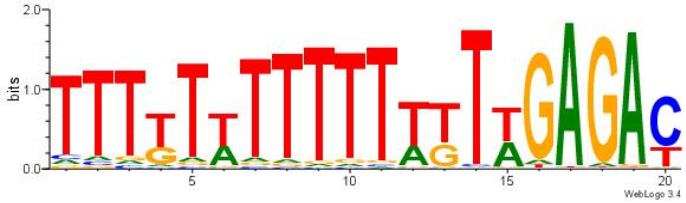

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167975

Alignment:

```
GACTGGCAGGCAGCTCCACC
CAAGGGTATAYGAGTAGCTG
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

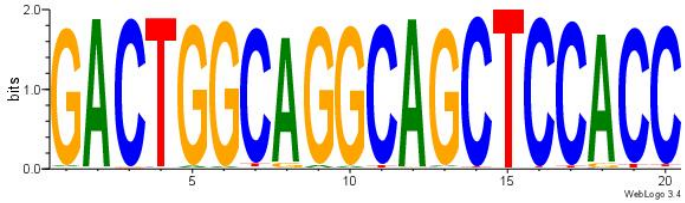

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

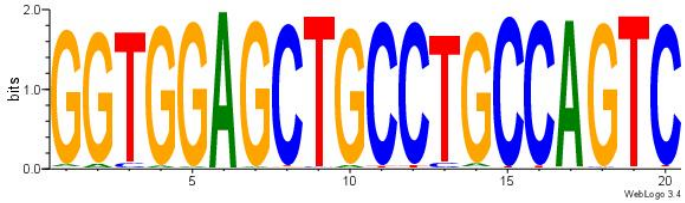

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.168058

Alignment:
AGAAATCGAGCRCAGCGCCG
CAAGGGTATAYGAGTAGCTG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

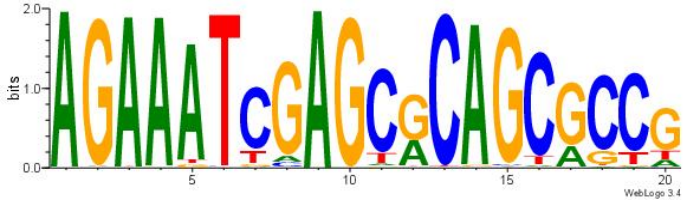

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

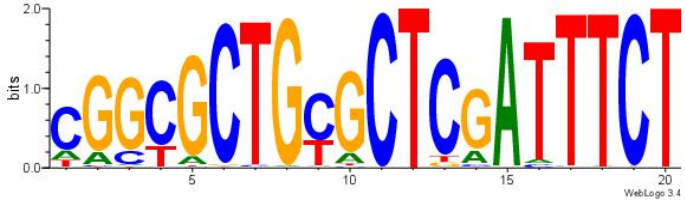

Dataset #: 1 Motif ID: 195 Motif name: Motif 195

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

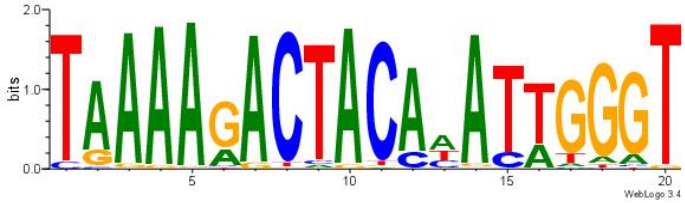

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

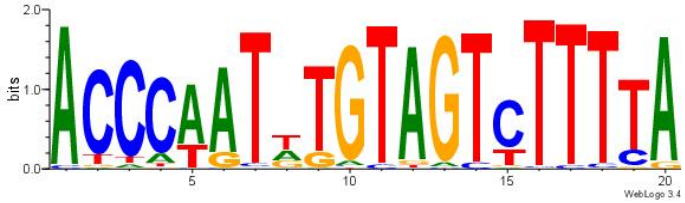

Best Matches for Motif ID 195 (Highest to Lowest)

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113069

Alignment:

```
ACACATCACAAAGCAGTTTC
ACCCAATWTGTAGTCTTTTA
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

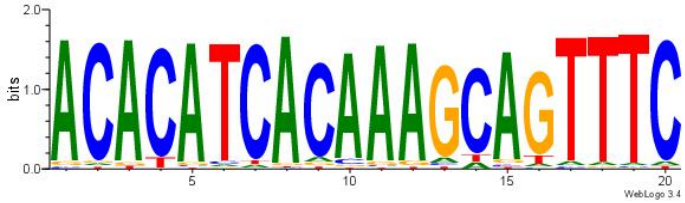

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

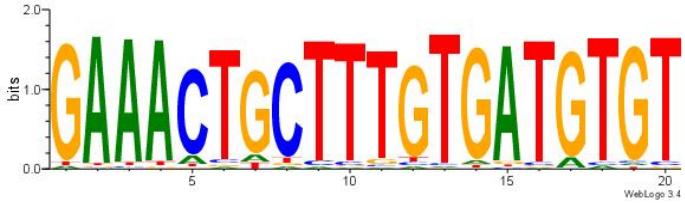

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113969

Alignment:

CCCGAAGCTGCRYRCTCGGT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

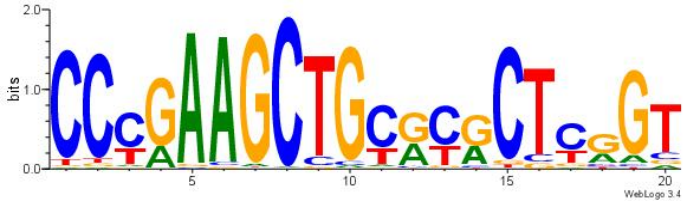

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

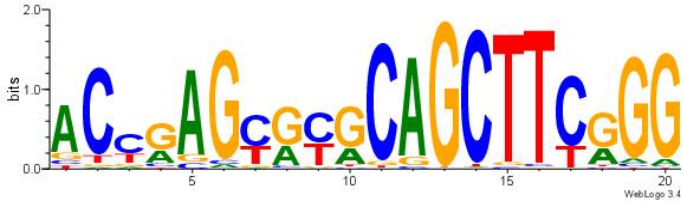

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.122348

Alignment:
AAAATCACAAGCATTCCTAT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

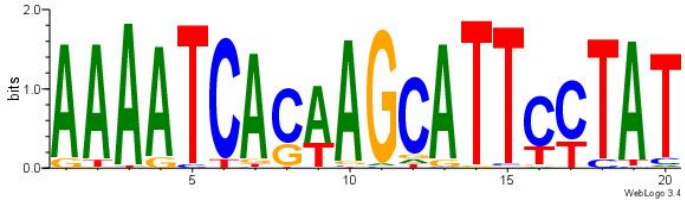

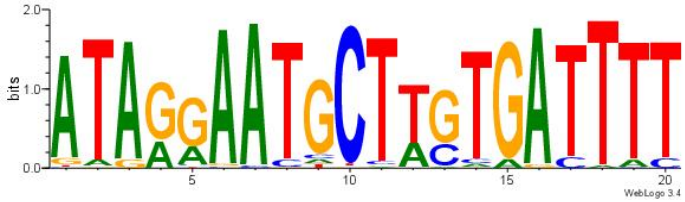

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.123108

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
ACCCAATWTGTAGTCTTTTA
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

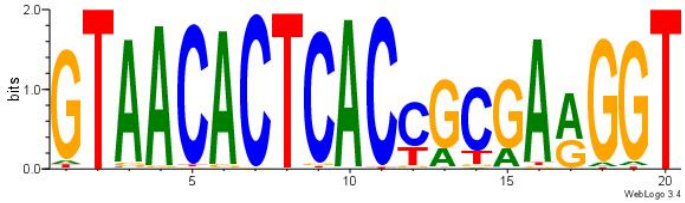

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

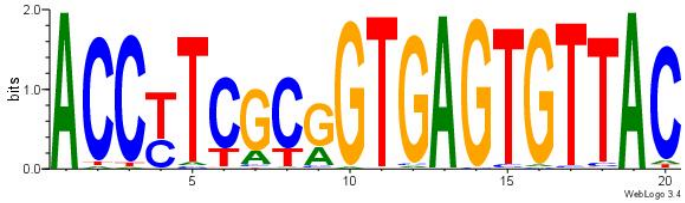

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128438

Alignment:

```
CAAGGGTATAYGAGTAGCTG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

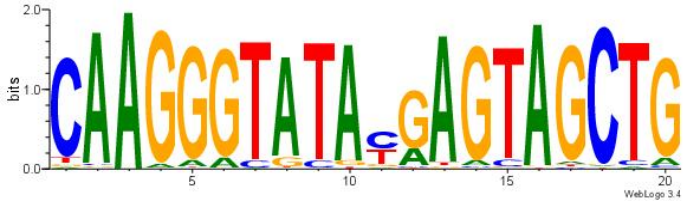

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

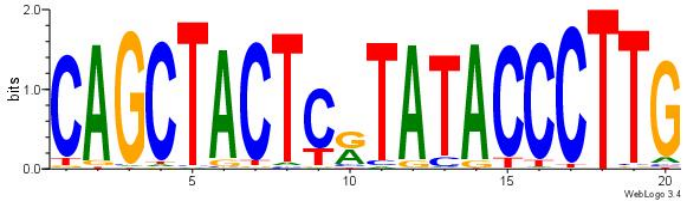

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.128521

Alignment:
GCAAAKGACATGATYTCATT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

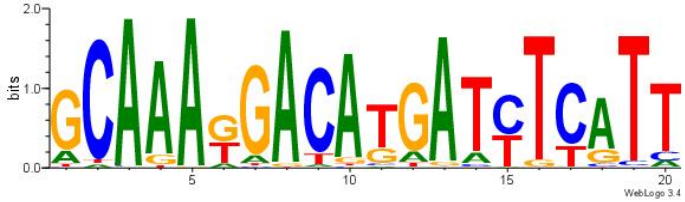

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

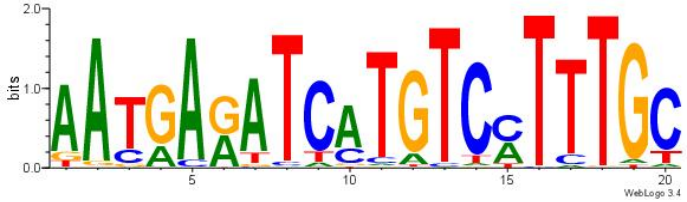

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128813

Alignment:
GCCAATTTCTCCCATTTGGA
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

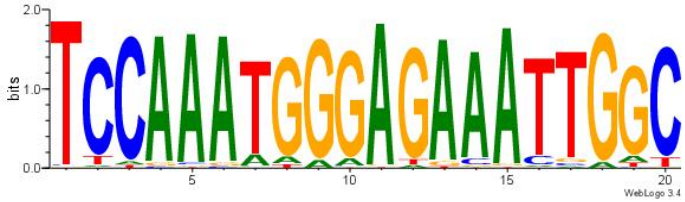

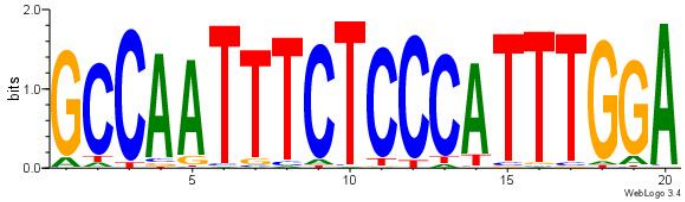

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130005

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

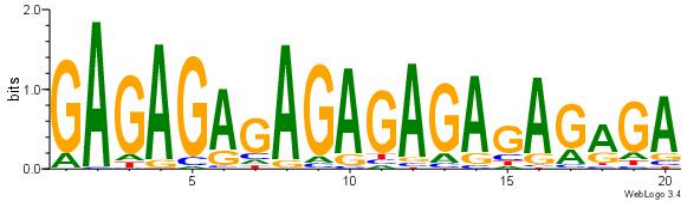

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

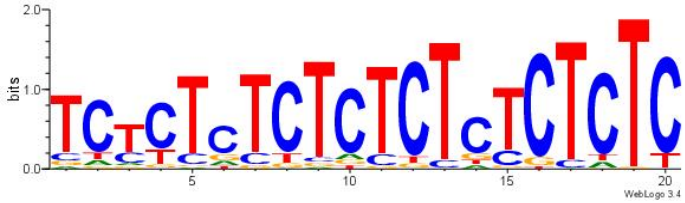

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131589

Alignment:

```
AGTGAGAACATRYRRTRTTT
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

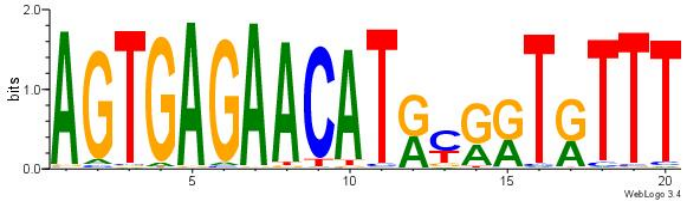

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

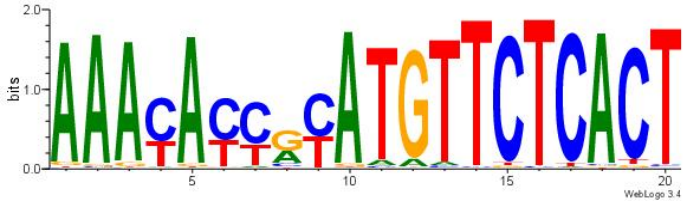

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133037

Alignment:
GAAHCAACCKAAKTGTCCAT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

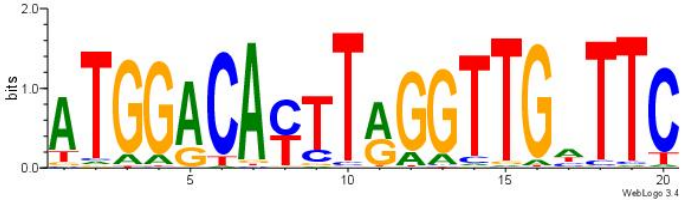

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

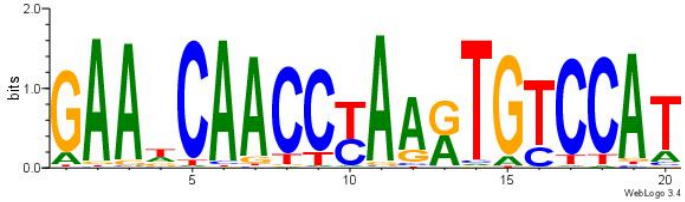

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13404

Alignment:
CRTGAGCCACYGYRCCYGGC
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

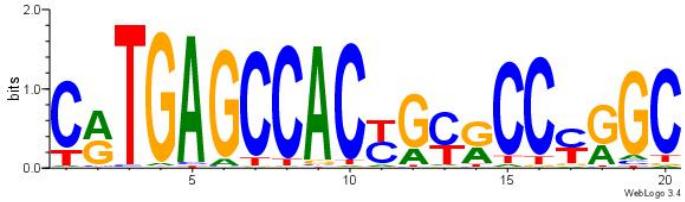

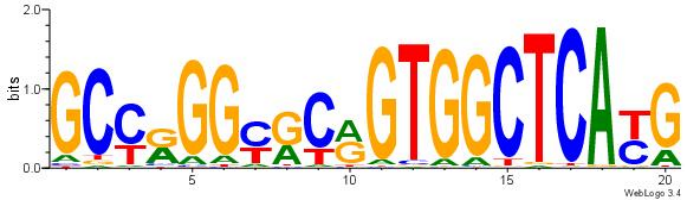

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136827

Alignment:

```
CAACATGGATGRARCTGGAG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

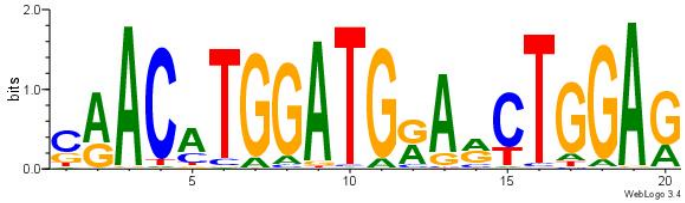

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

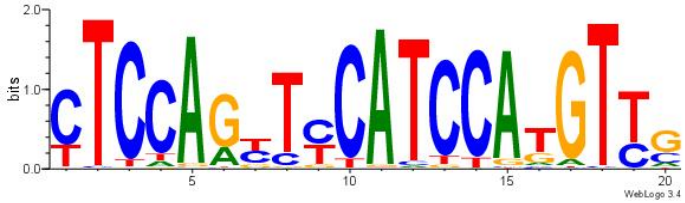

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13799

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
ACCCAATWTGTAGTCTTTTA
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

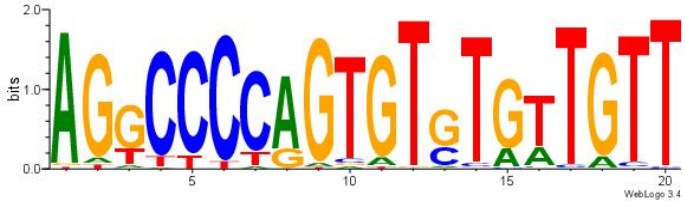

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

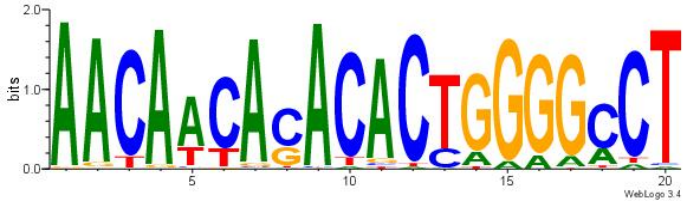

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138436

Alignment:
AWTKKTGGTTKCCAGKGGCT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

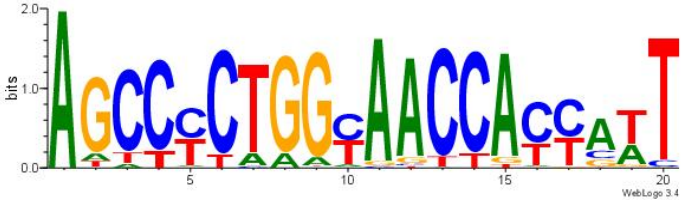

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

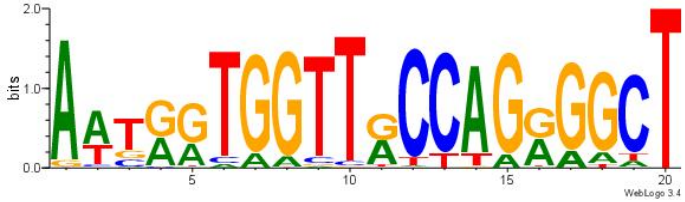

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138543

Alignment:
AAATTACCCAGTCTCAGGTA
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

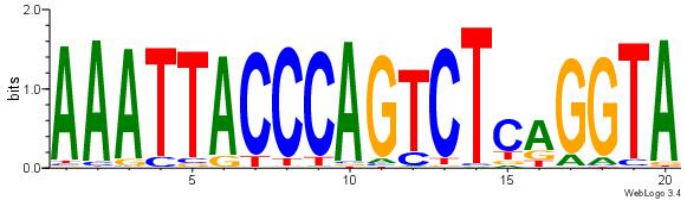

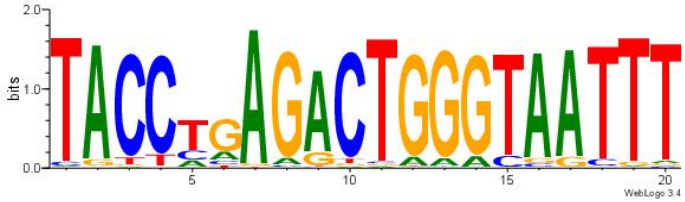

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138689

Alignment:

```
VMATTTAKTGAGCACCTACT
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

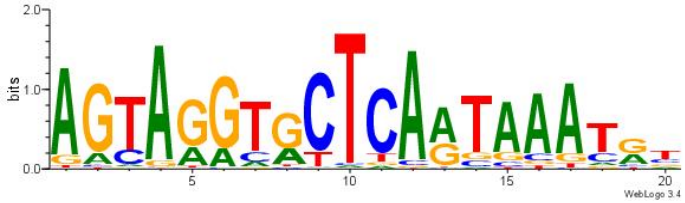

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

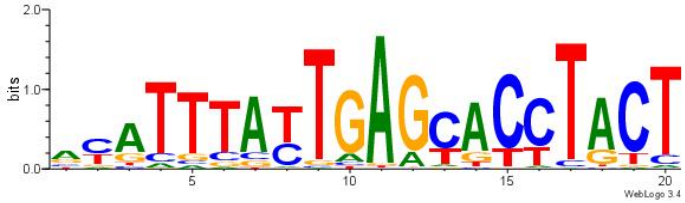

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139431

Alignment:

```
ACTTTGGACTGTGGACTTTT
ACCCAATWTGTAGTCTTTTA
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

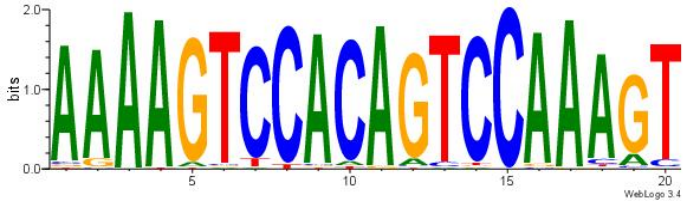

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

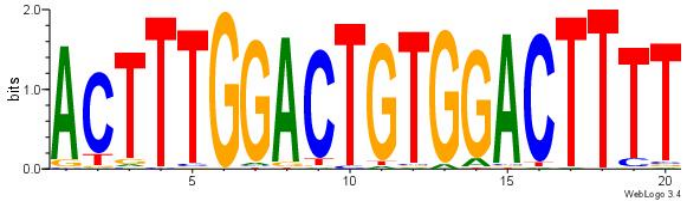

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141076

Alignment:
AAGTTCTKGGKTACATGTGC
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

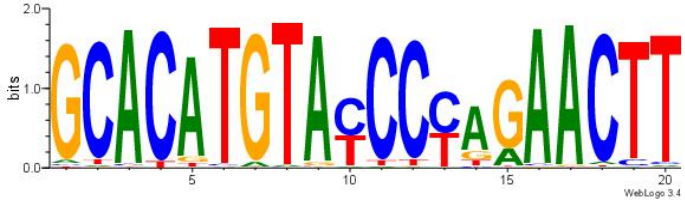

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

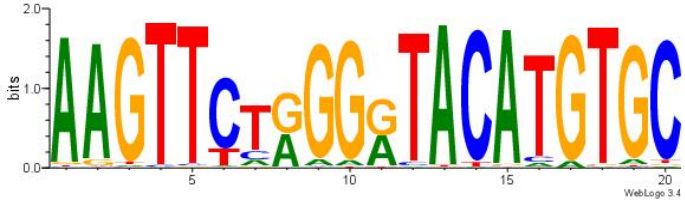

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141226

Alignment:
CAAGTTGACACATAAAATTA
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

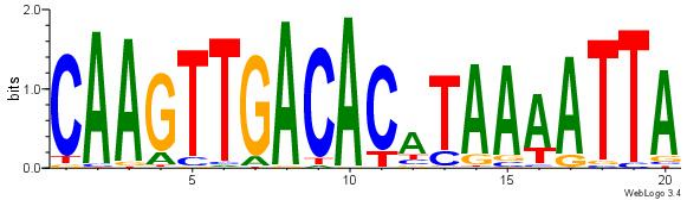

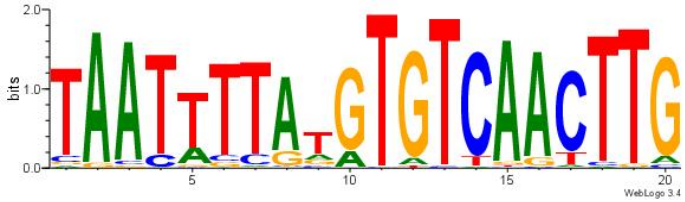

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142157

Alignment:

```
CACCAGACTCAGGAGCCCAG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

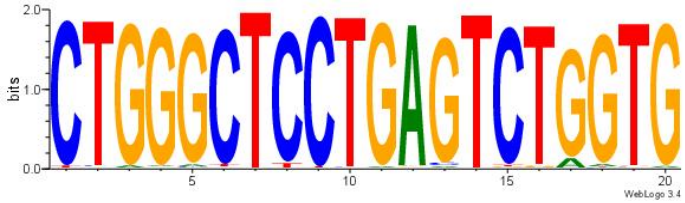

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

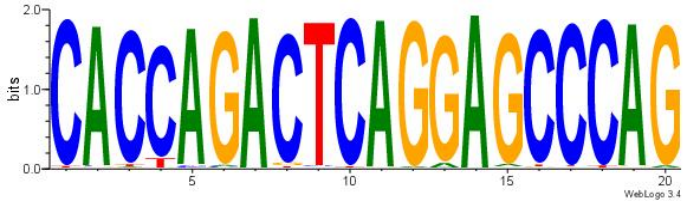

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143334

Alignment:

```
AGAAATCGAGCRCAGCGCCG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

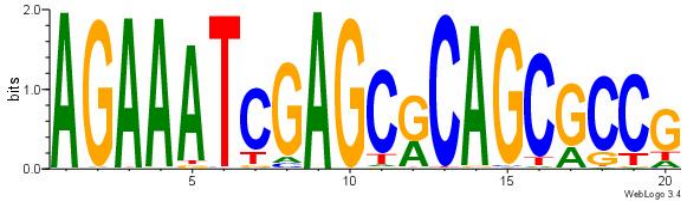

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

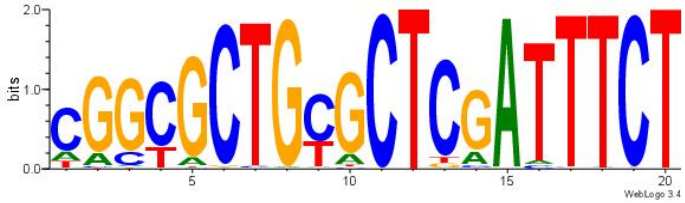

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.143543

Alignment:
GGCAATGCCTCGCCCTGCTT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

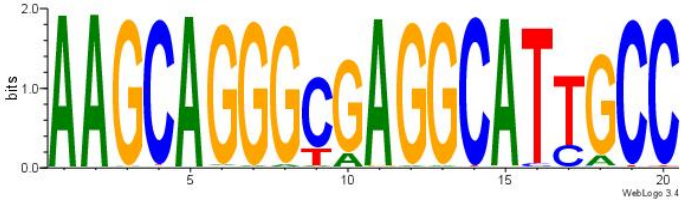

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

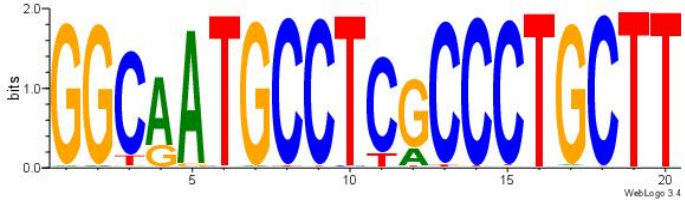

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.14404

Alignment:
TTTYTWTTTTTTYTWGAGAC
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

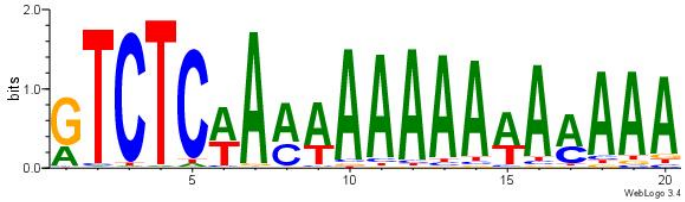

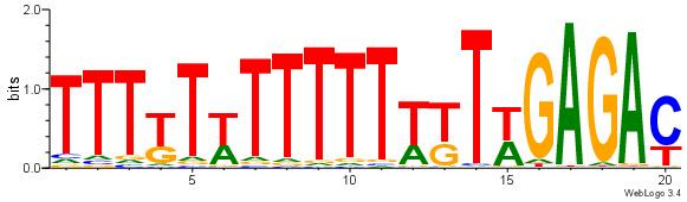

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145761

Alignment:

```
TWTACCTATGTAACAAACCT
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

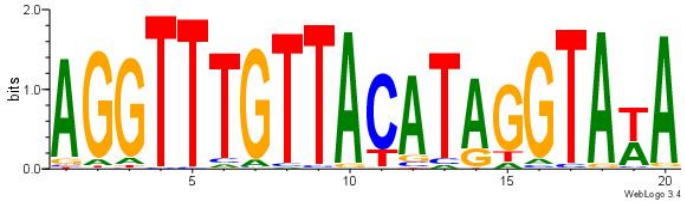

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

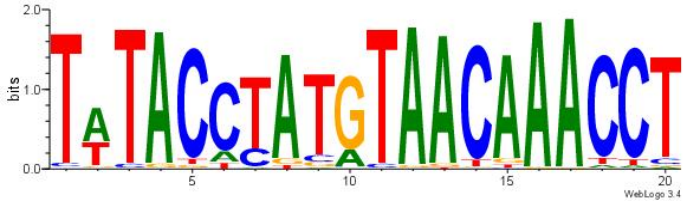

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146514

Alignment:

```
MGGGATATAATCTCCTGGTG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

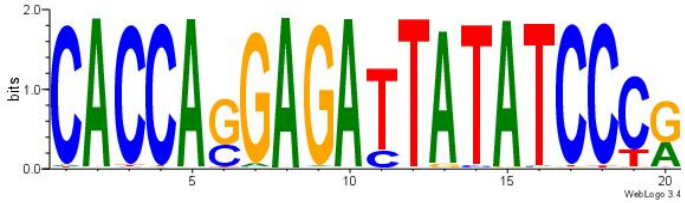

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

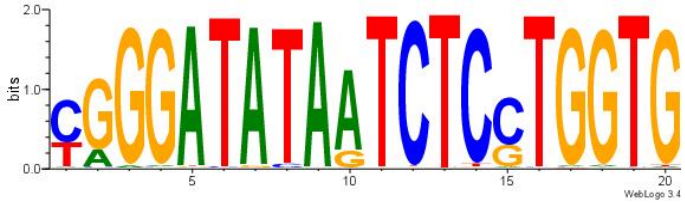

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148901

Alignment:
TGCTGGAGGTCCACTCCAGA
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

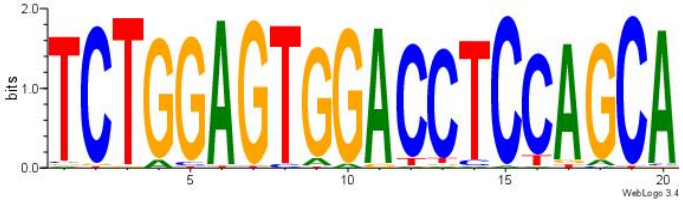

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

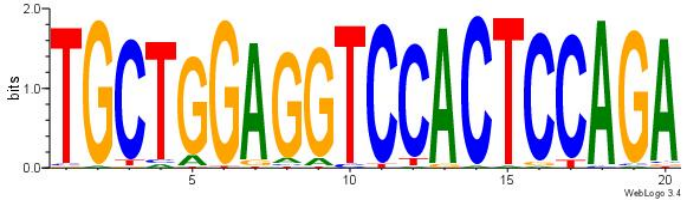

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148996

Alignment:
GAAGGCAGCTAAGGCCCGGY
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

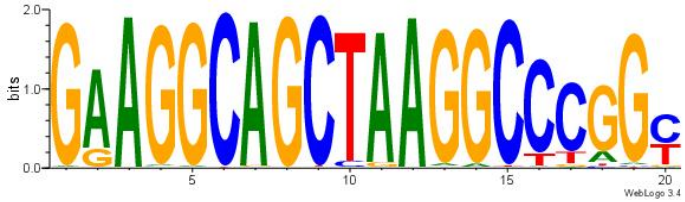

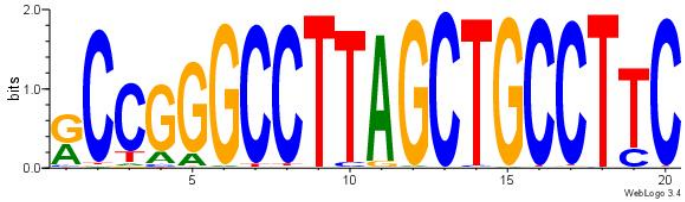

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149564

Alignment:

```
CMTAGYACAGTGCCTGGCAC
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

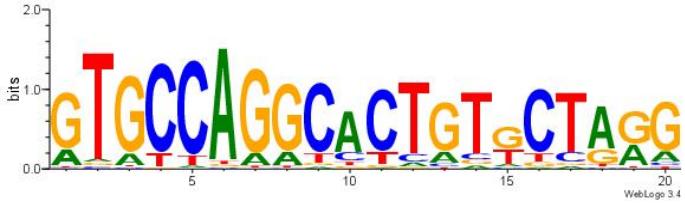

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

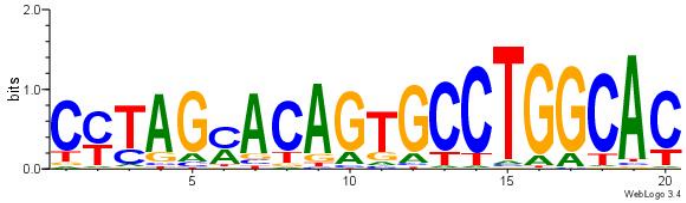

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149782

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
ACCCAATWTGTAGTCTTTTA
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

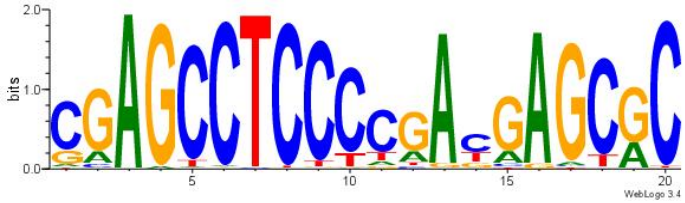

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

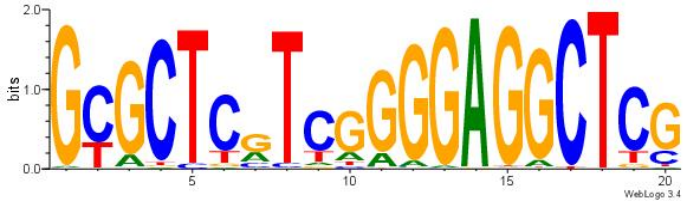

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150359

Alignment:
ACCTGGAAAATCGGGTCACT
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

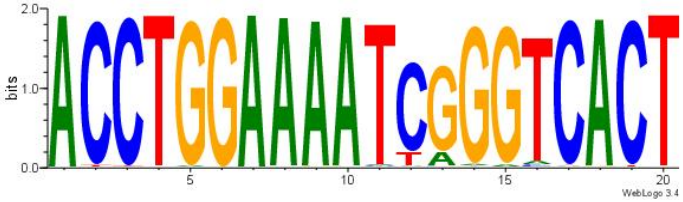

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

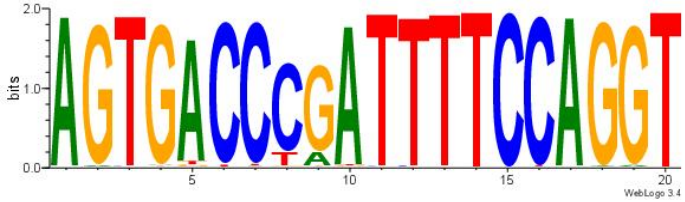

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150639

Alignment:
CAAGCCTSKGCAATGGCAGG
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

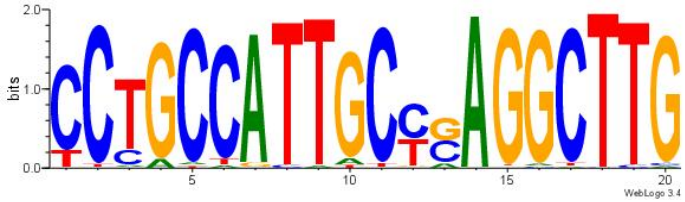

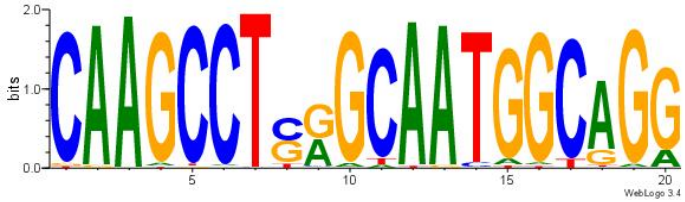

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150892

Alignment:

```
ATGTGGAGGTGGAAGACAGT
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

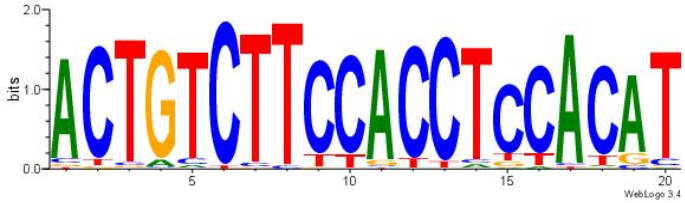

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

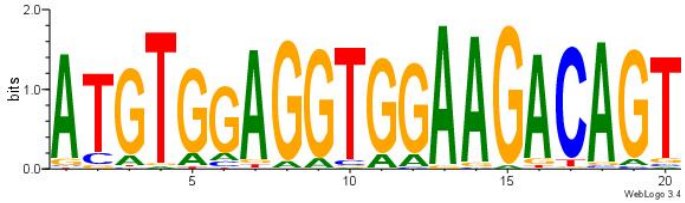

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15127

Alignment:
GAATACCTCCTGAAGGACCT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

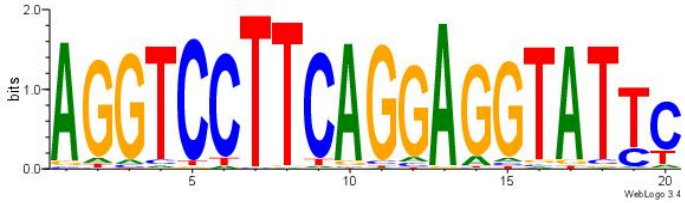

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

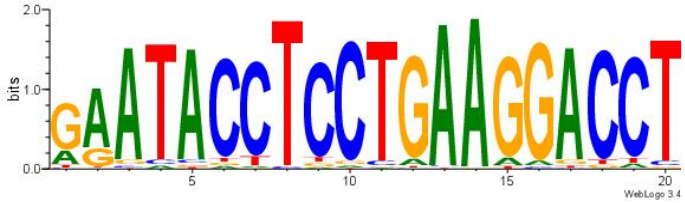

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.151771

Alignment:
TAGATAATAGCTCCAGCTTT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

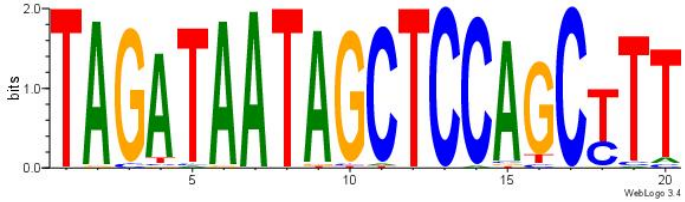

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

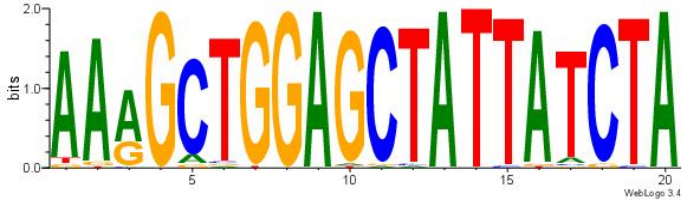

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151793

Alignment:
GGTTCATCTCACTAGGGAGT
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

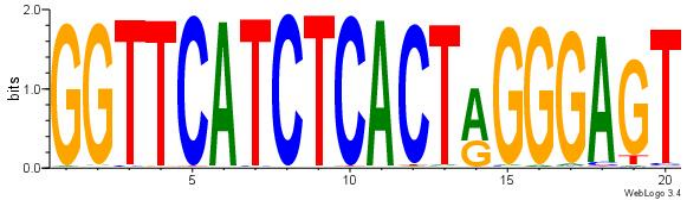

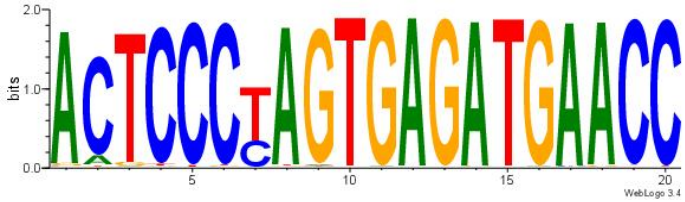

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151866

Alignment:

```
GGATTTMKGACTTGCATGGG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

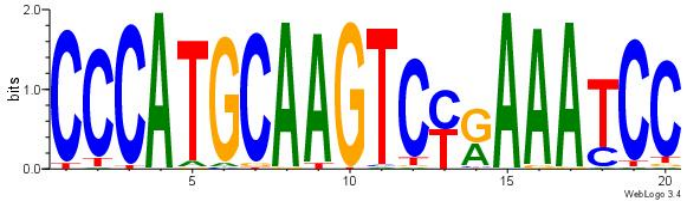

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

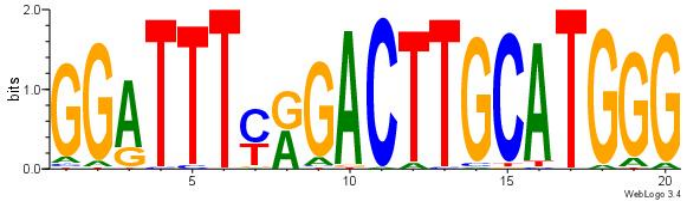

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151927

Alignment:

```
AATCAACCCTGGYRATCAAT
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

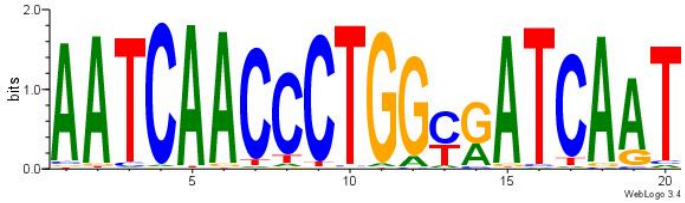

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

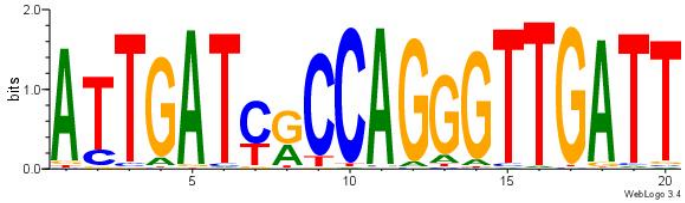

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152366

Alignment:
ATCTGACAGGAGGYRGAGCT
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

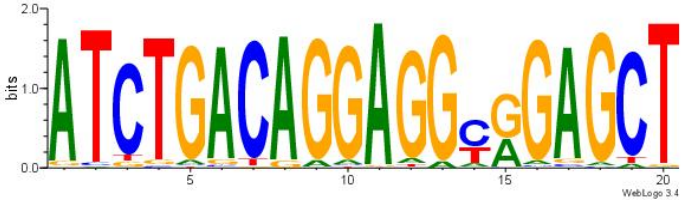

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

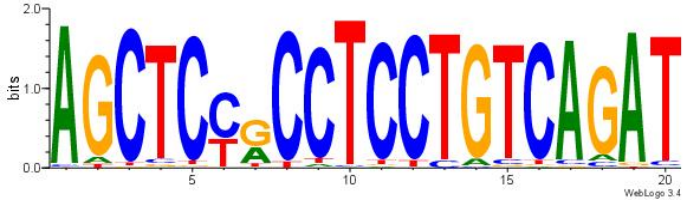

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152384

Alignment:
GACAGGAGATTAACACTGAG
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

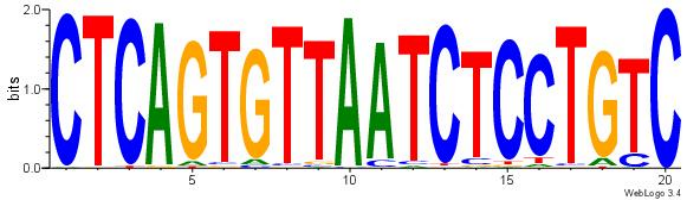

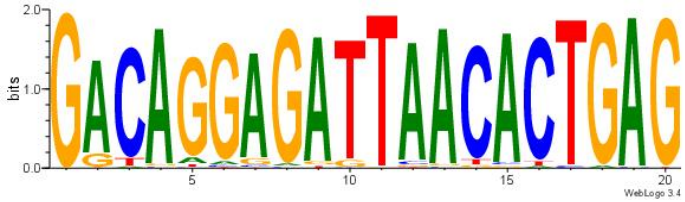

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153345

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

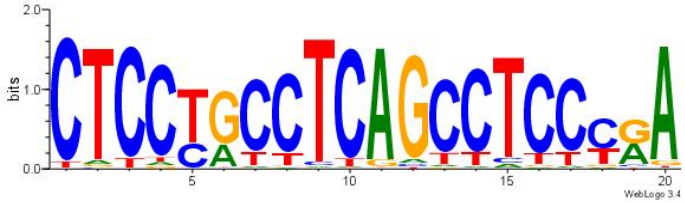

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

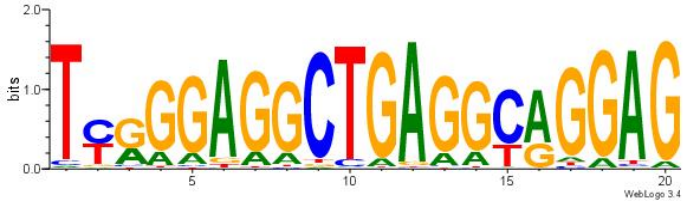

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153413

Alignment:

```
TTCAMTCATGATTTGGCTCT
ACCCAATWTGTAGTCTTTTA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

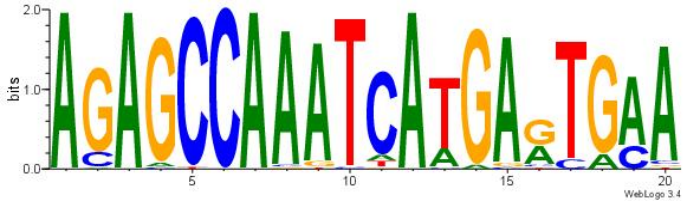

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

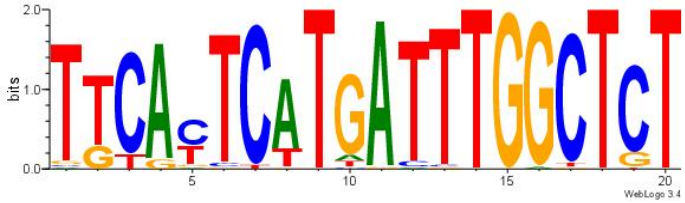

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153545

Alignment:
ATCRCTTGAGSYCAGGAGKT
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

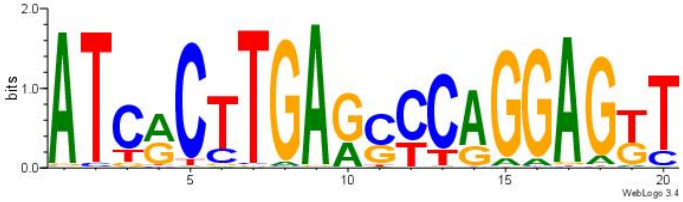

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

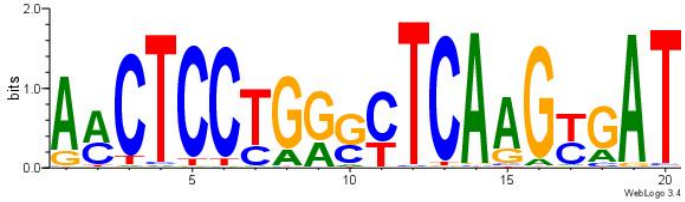

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154003

Alignment:
AAATTAGGCCAATTAATAAC
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

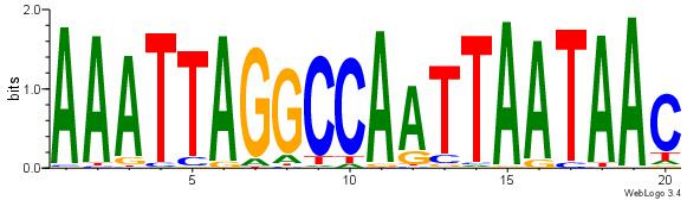

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154146

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

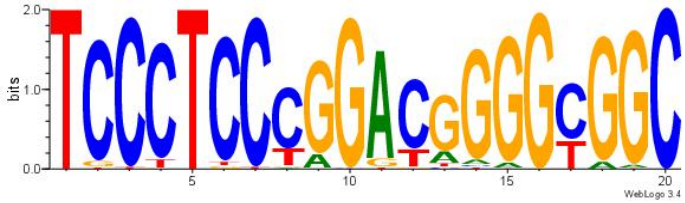

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

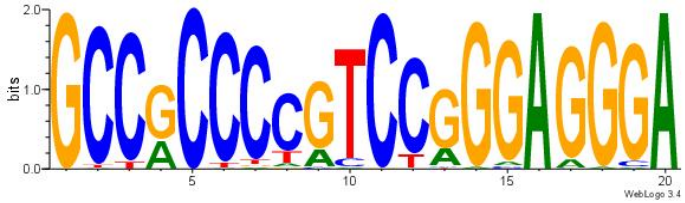

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154355

Alignment:

```
AAGTCCAAGATCAAGGTGYY
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

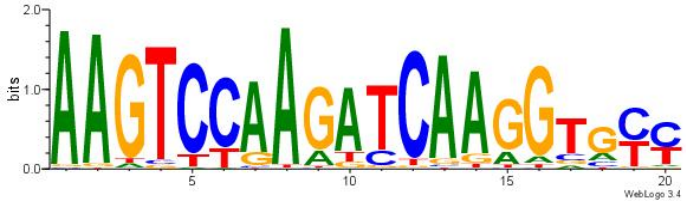

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

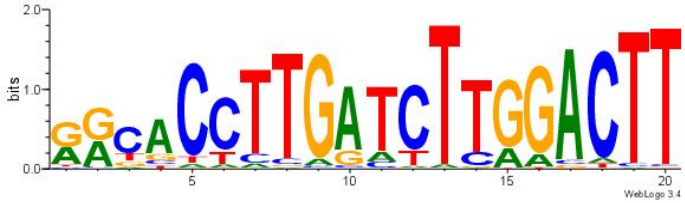

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155903

Alignment:
MGTCTMKCTCTGTKGCCCAG
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

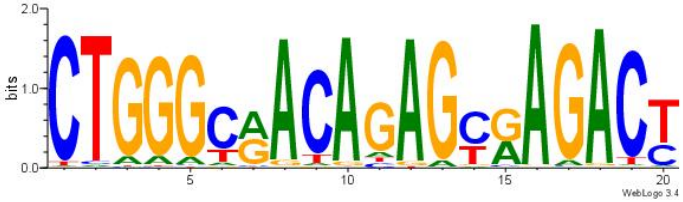

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

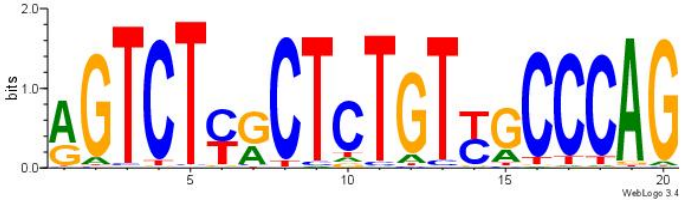

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.156473

Alignment:
TYTGTCMTTTTGTGACTGGC
ACCCAATWTGTAGTCTTTTA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

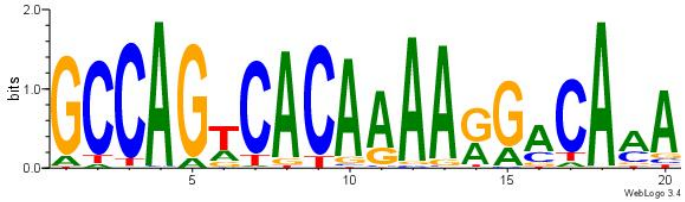

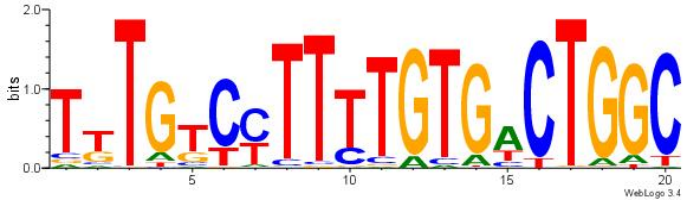

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156789

Alignment:

```
GGATCCACTGGGTGAAGCCA
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

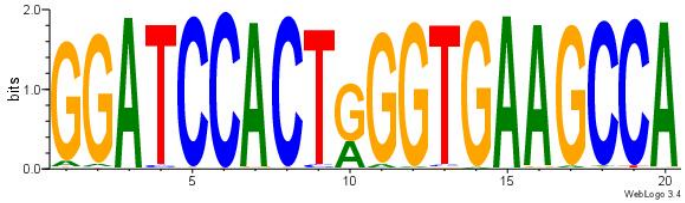

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

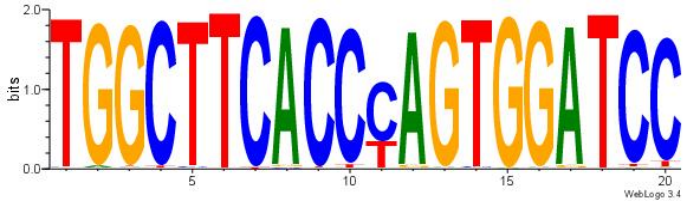

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157033

Alignment:

```
ATGGCTGAATAKTATTCCAT
TAAAAGACTACAWATTGGGT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

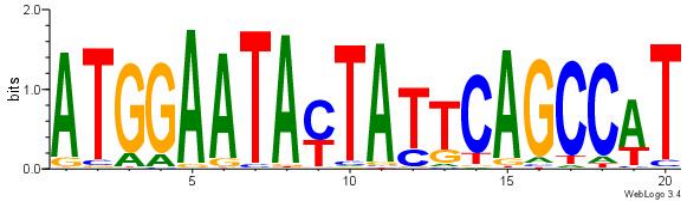

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

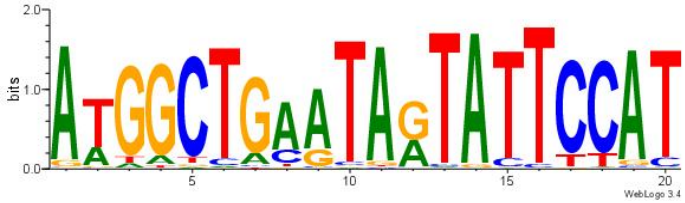

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158033

Alignment:
AAAATGTGGTAYATAYAYAC
TAAAAGACTACAWATTGGGT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

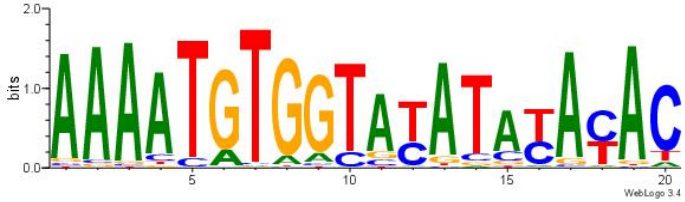

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

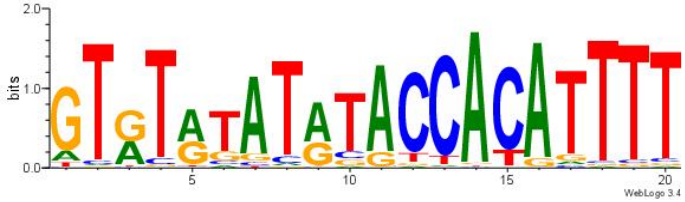

Dataset #: 1 Motif ID: 196 Motif name: Motif 196

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

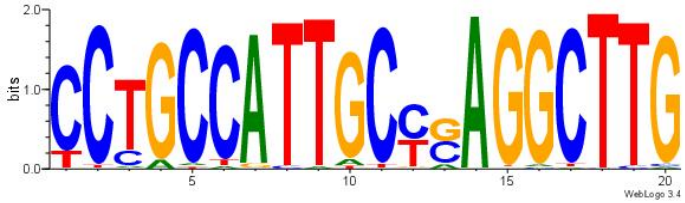

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

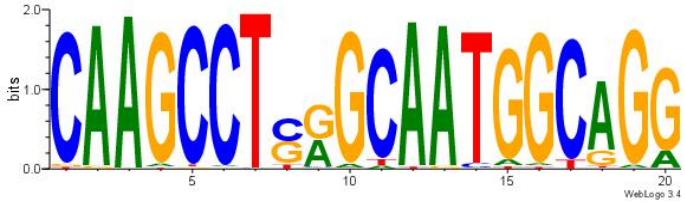

Best Matches for Motif ID 196 (Highest to Lowest)

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113175

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

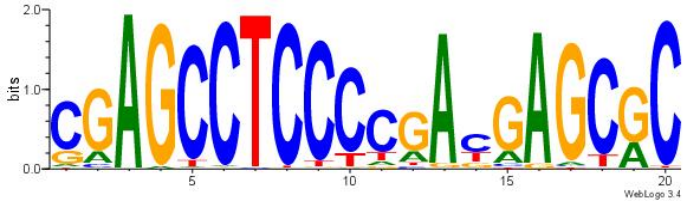

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

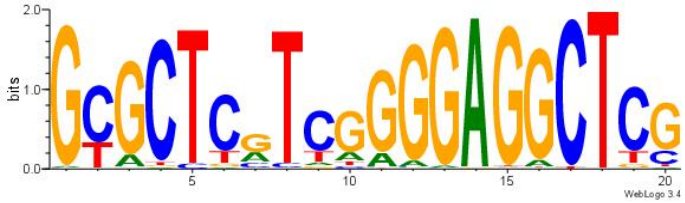

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135677

Alignment:

GAAHCAACCKAAKTGTCCAT
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

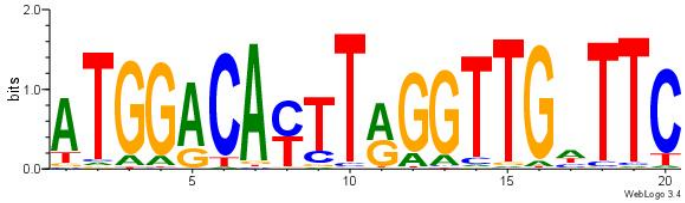

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

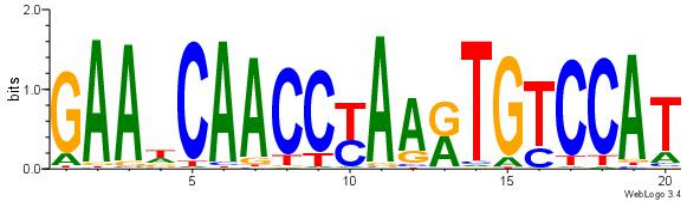

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136179

Alignment:
TAGATAATAGCTCCAGCTTT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

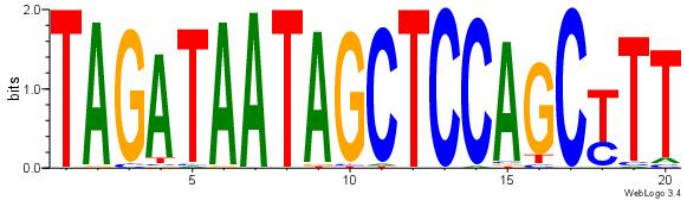

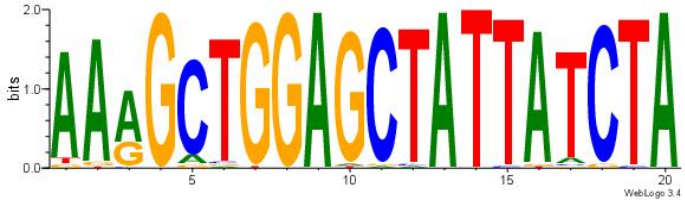

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138043

Alignment:

```
CAGCTACTCKTATACCCTTG
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

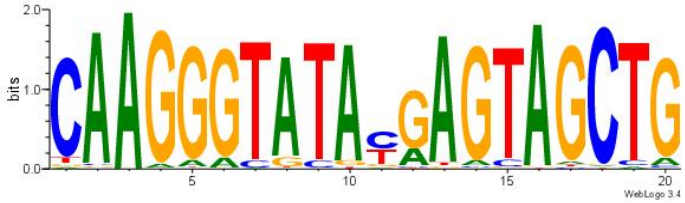

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

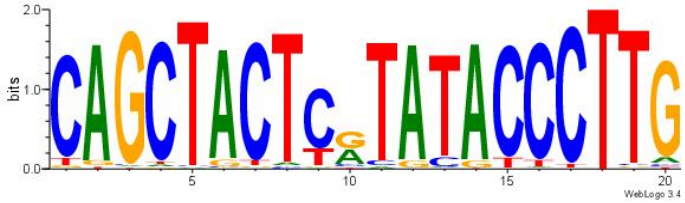

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139891

Alignment:
GCTGTGTGACCTTGGGCAAG
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

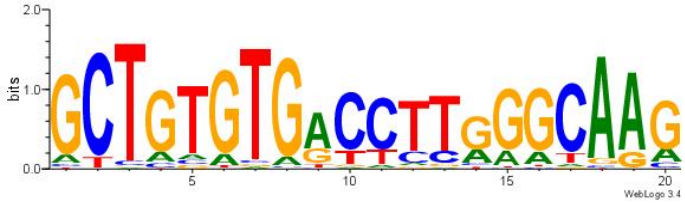

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

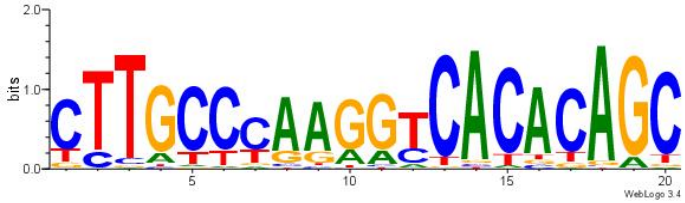

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.142016

Alignment:
ATCRCTTGAGSYCAGGAGKT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

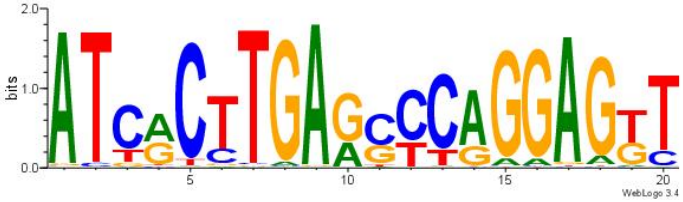

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

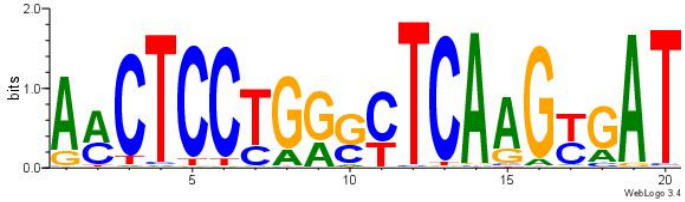

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145275

Alignment:
TTCAMTCATGATTTGGCTCT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

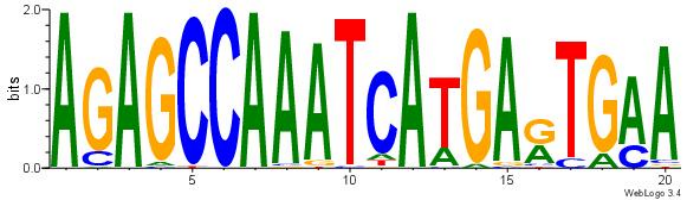

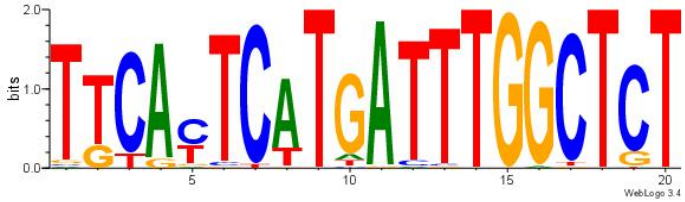

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147741

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

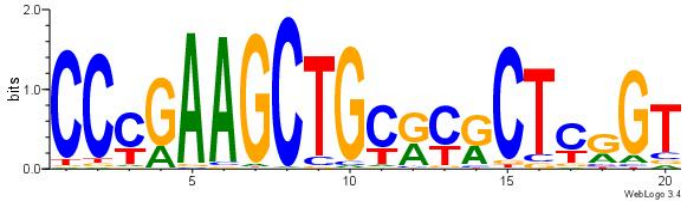

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

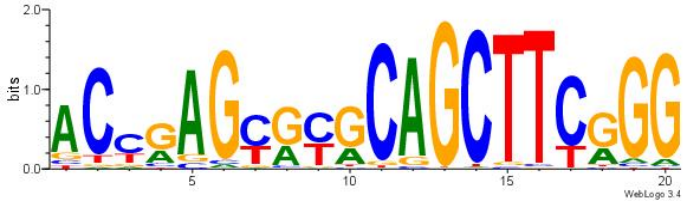

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14806

Alignment:
AAAATGTGGTAYATAYAYAC
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

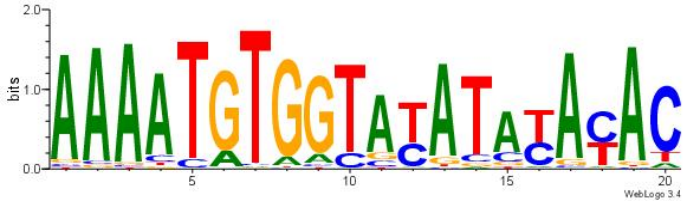

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

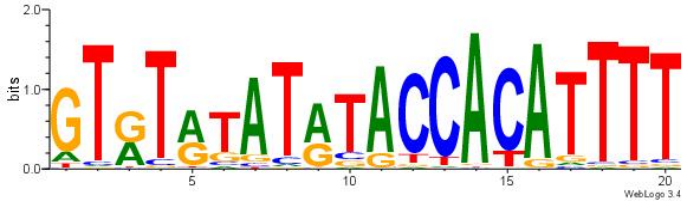

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148103

Alignment:
GAAGGCAGCTAAGGCCCGGY
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

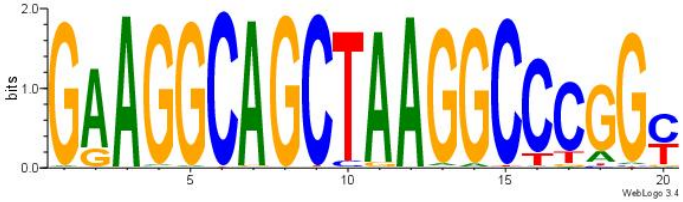

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

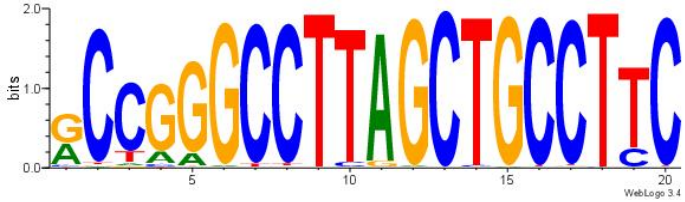

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148299

Alignment:
GCCTCCTTGAGCTGTGGTGG
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

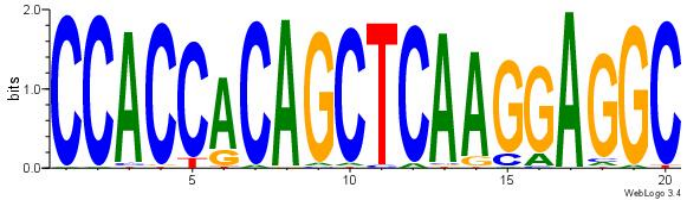

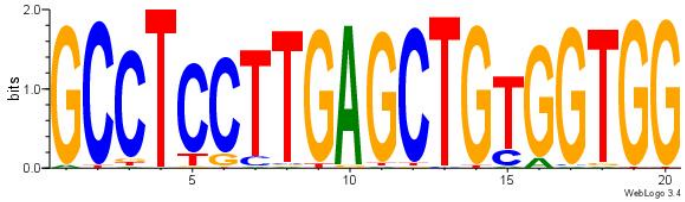

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149156

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
CAAGCCTSKGCAATGGCAGG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

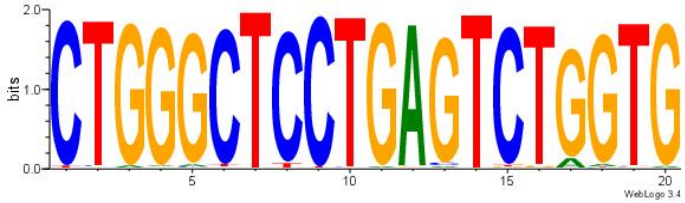

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

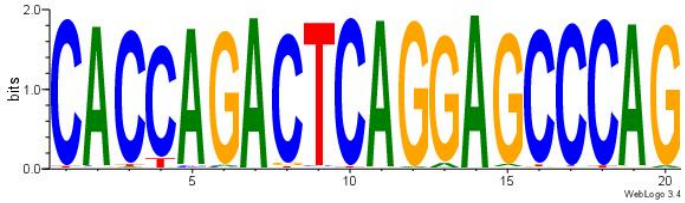

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151188

Alignment:

```
TCCCTCCCGGACGGGGYGGC
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

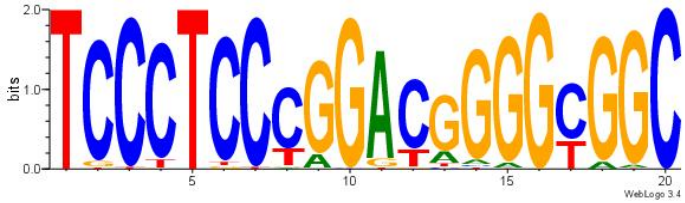

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

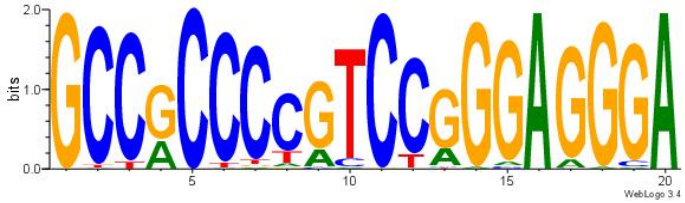

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.15141

Alignment:
CGCGGCGCTTGCGGGCCAGC
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

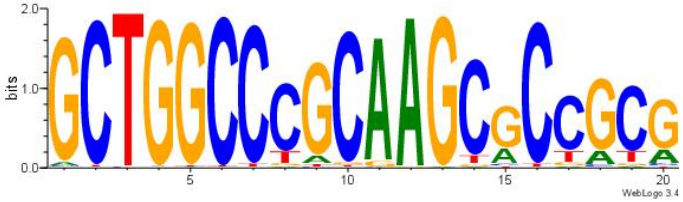

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

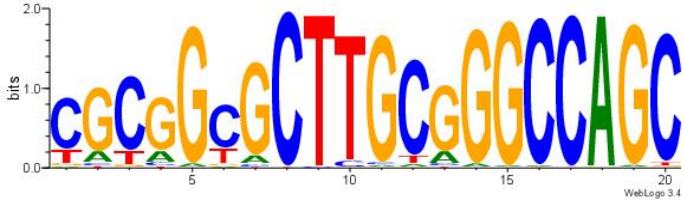

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152464

Alignment:
TWTACCTATGTAACAAACCT
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

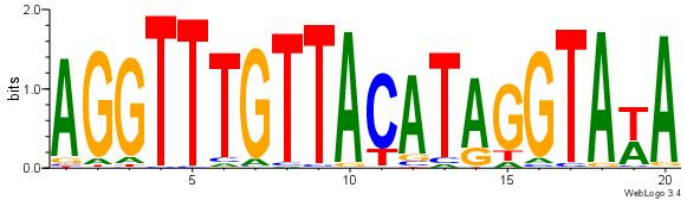

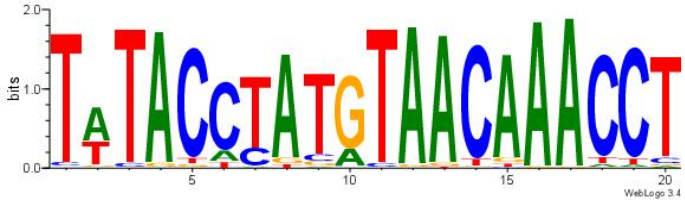

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152763

Alignment:
KKCACCTTGATCTTGGACTT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

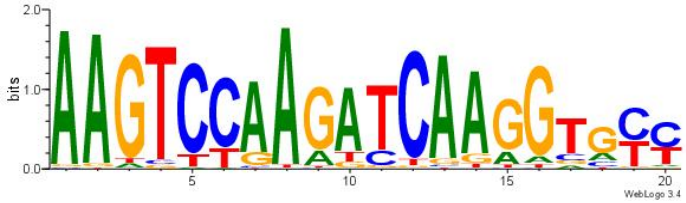

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

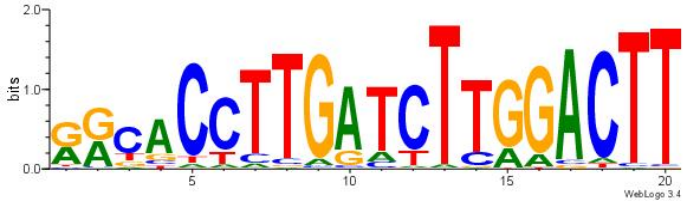

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154247

Alignment:

```
AAAATCACAAGCATTCCTAT
CAAGCCTSKGCAATGGCAGG
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

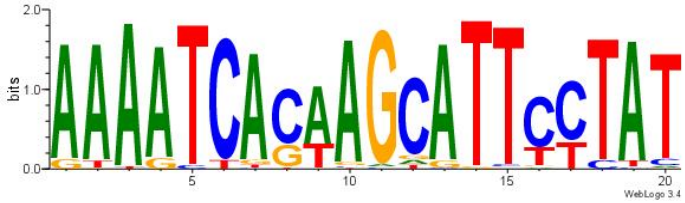

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

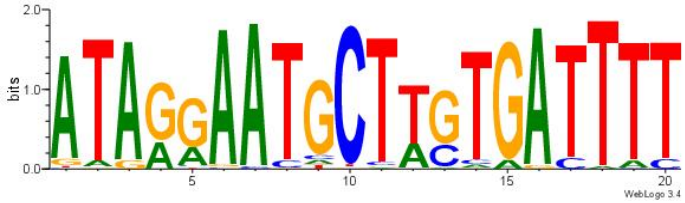

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.15701

Alignment:
MGGGATATAATCTCCTGGTG
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

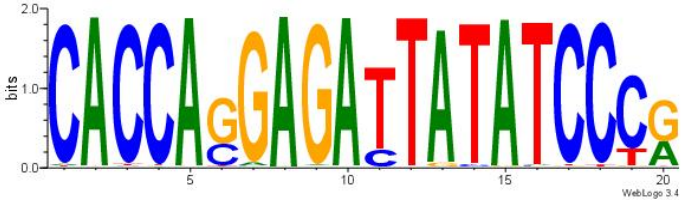

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

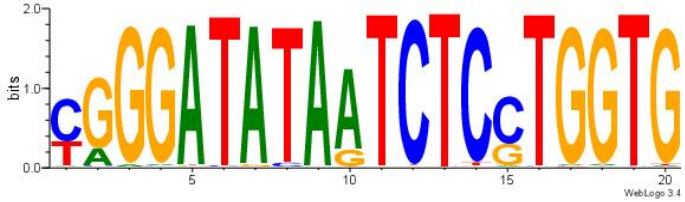

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157271

Alignment:
CMTAGYACAGTGCCTGGCAC
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

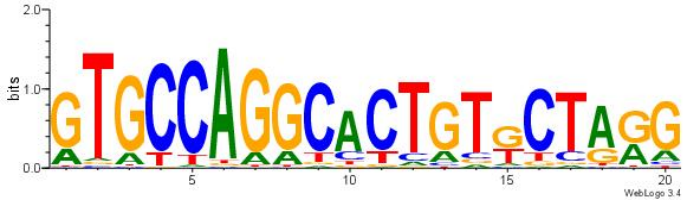

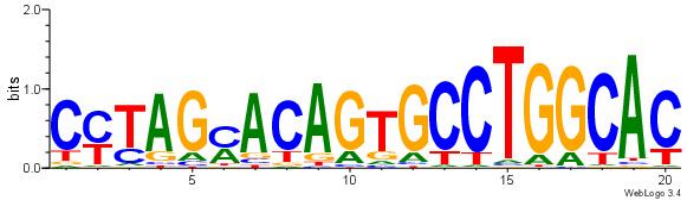

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157673

Alignment:

```
ACTCCCTAGTGAGATGAACC
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

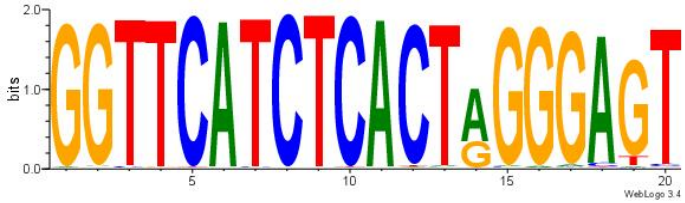

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

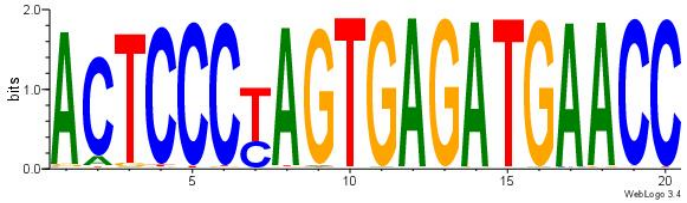

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158052

Alignment:

GGAGCCGGCTCCCTCAGCTT

CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

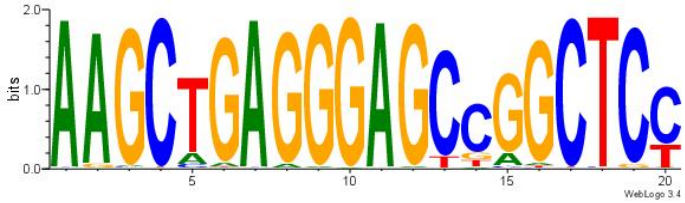

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

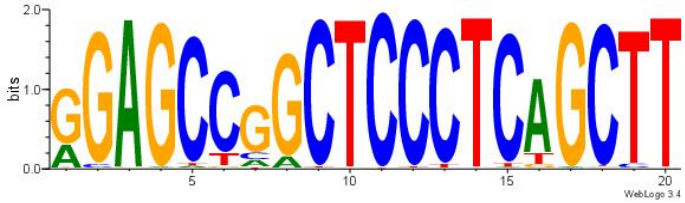

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.158346

Alignment:
GCACATGTAYCCYAGAACTT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

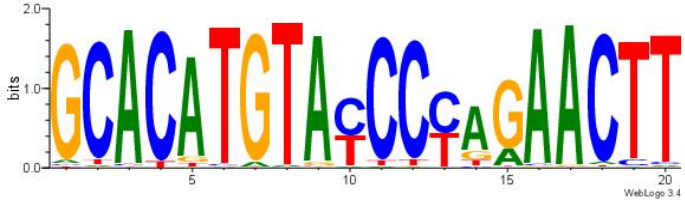

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

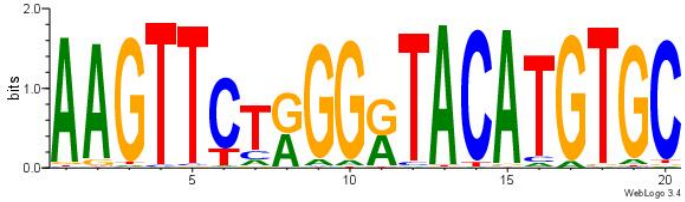

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15903

Alignment:
TAATTTTATGTGTCAACTTG
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

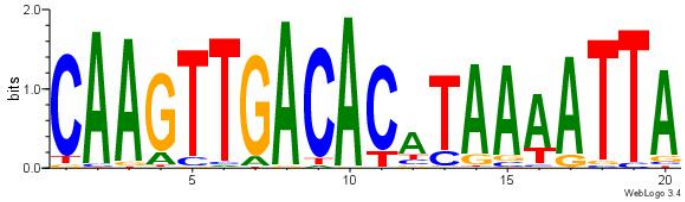

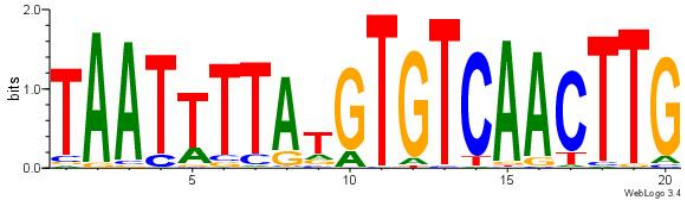

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161009

Alignment:

```
AGTAGGTGCTCARTAAATRB
CAAGCCTSKGCAATGGCAGG
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

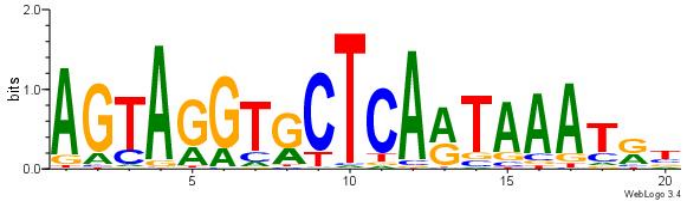

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

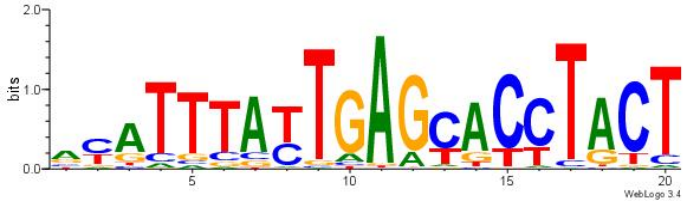

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161013

Alignment:
AGTGAGAACATRYRRTRTTT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

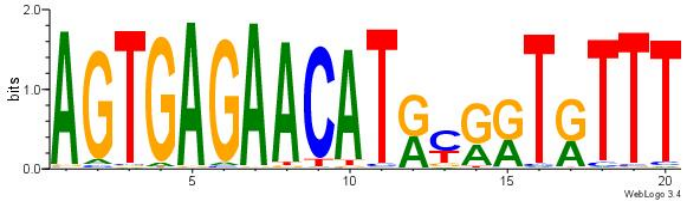

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

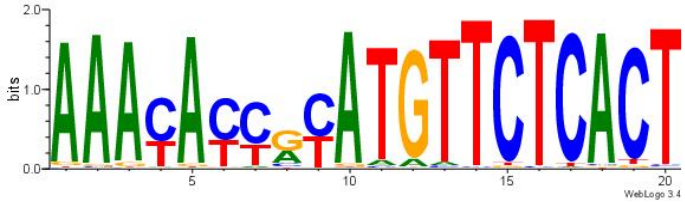

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161333

Alignment:
TTGTCCCACTGGAAGGTCTT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

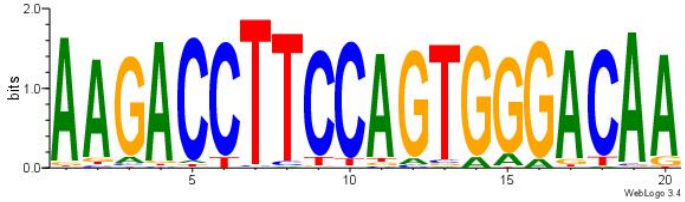

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

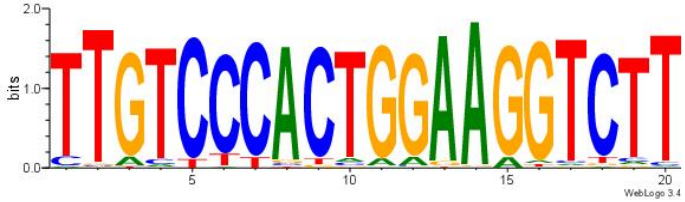

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161948

Alignment:
MTCCTCCAGACCCCAGAATG
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

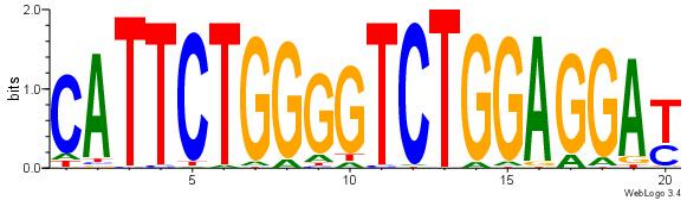

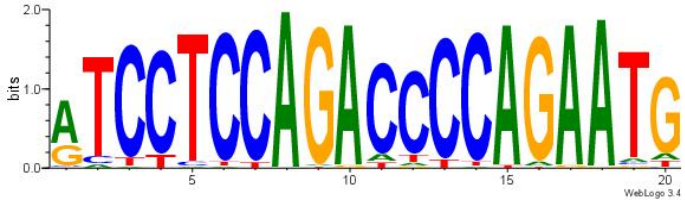

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162683

Alignment:
GAATACCTCCTGAAGGACCT
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

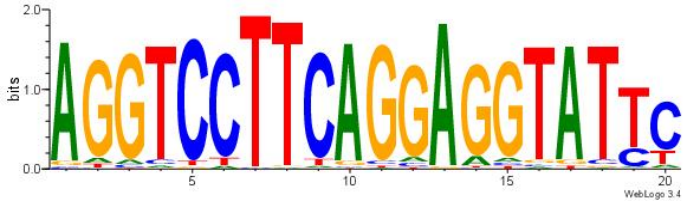

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

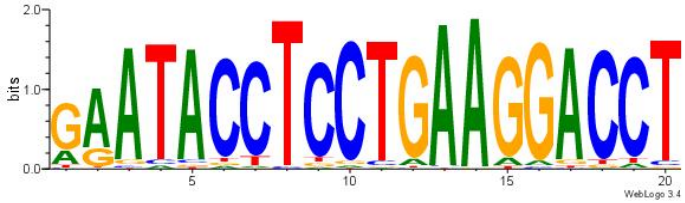

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162695

Alignment:
GGTGGAGCTGCCTGCCAGTC
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

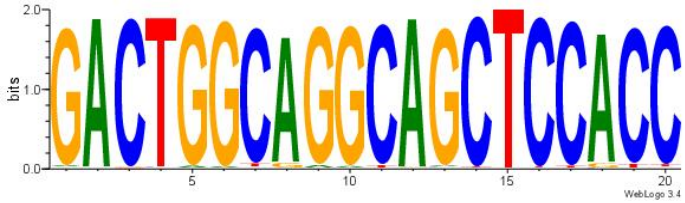

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

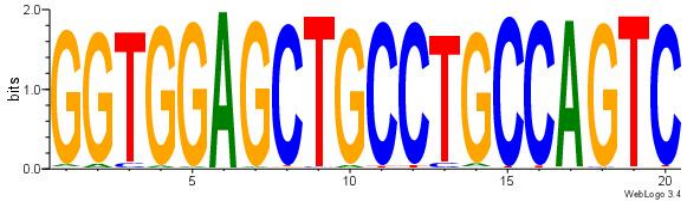

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.162717

Alignment:
AWTKKTGGTTKCCAGKGGCT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

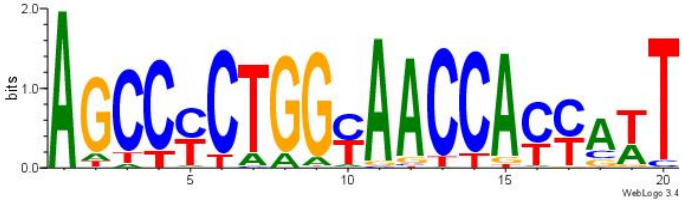

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

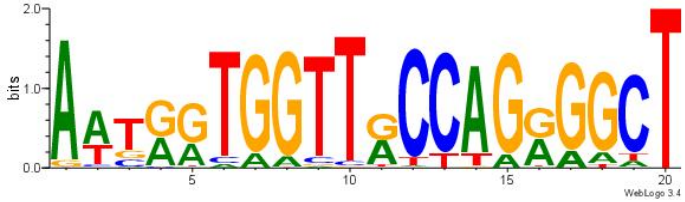

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.162827

Alignment:
ACCCAATWTGTAGTCTTTTA
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

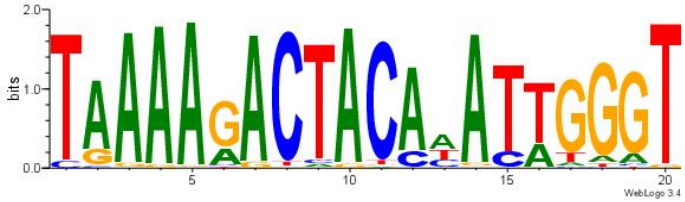

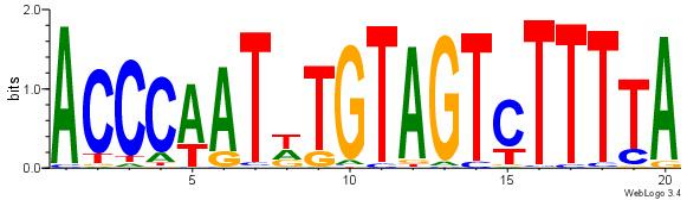

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163169

Alignment:
GCCAGTCACAAAARGACAMA
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

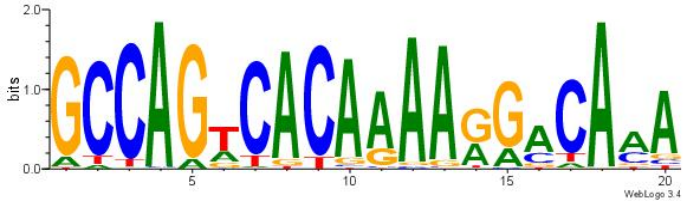

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

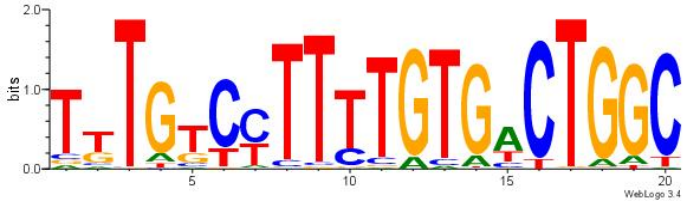

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1635

Alignment:
ACTGTCTTCCACCTCCACAT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

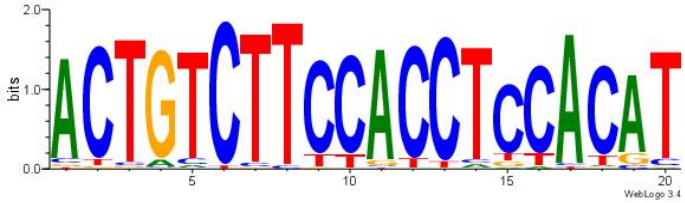

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

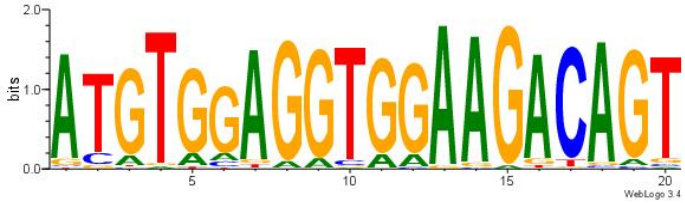

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16475

Alignment:
MGTCTMKCTCTGTKGCCCAG
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

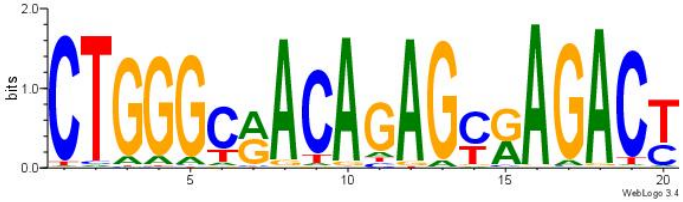

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

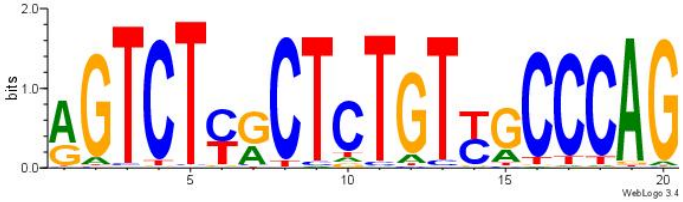

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166011

Alignment:
AGCTCCCAGCGTGAGCGACG
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

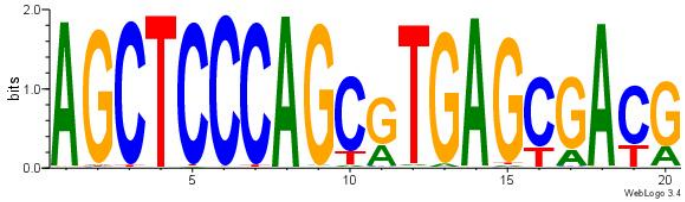

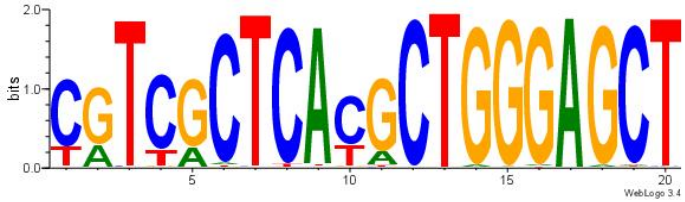

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166064

Alignment:

```
TCTGGAGTGGACCTCCAGCA
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

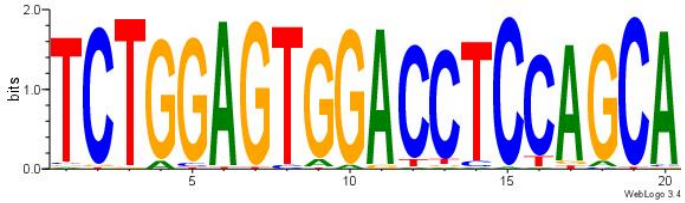

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

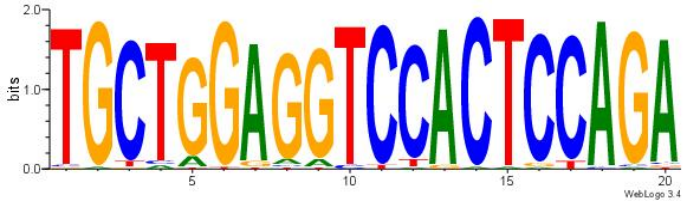

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.166516

Alignment:

```
CGGCGCTGMGCTCGATTTCT
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

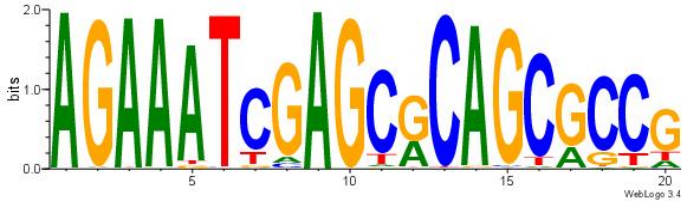

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

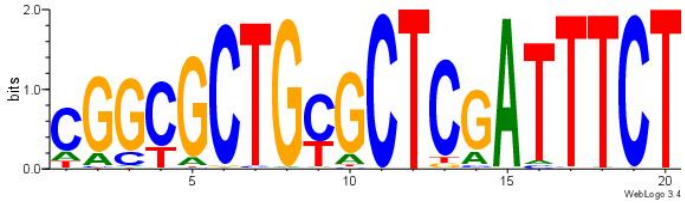

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16733

Alignment:
TCTCTCTCTCTCTCTCTCTC
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

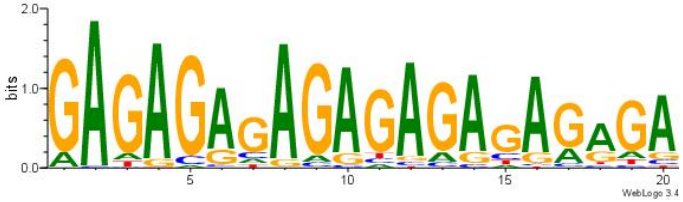

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

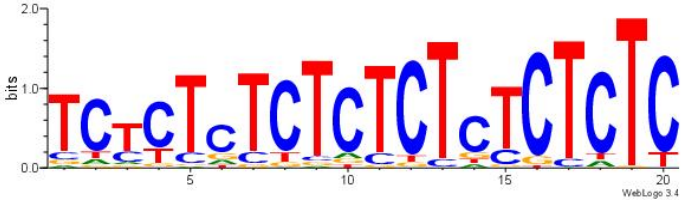

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.167536

Alignment:
CRTGAGCCACYGYRCCYGGC
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

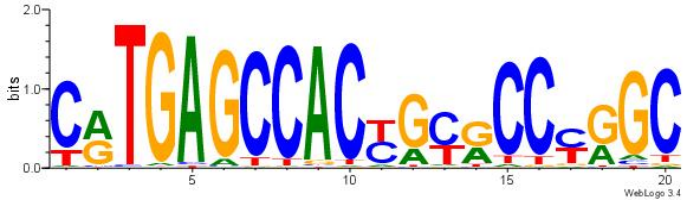

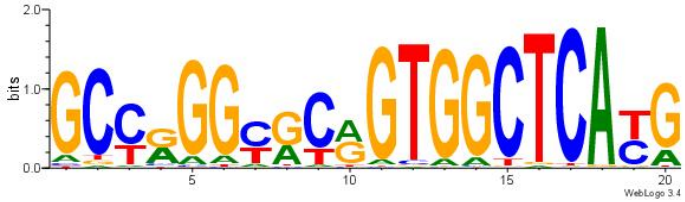

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167874

Alignment:

```
GCCTCTCCCTCCACACCTCC
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

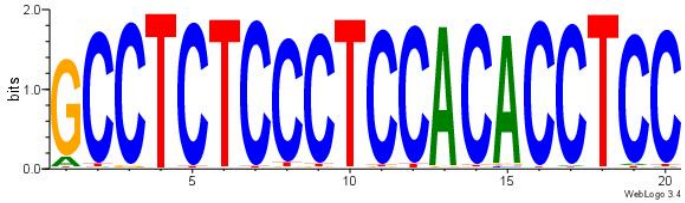

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

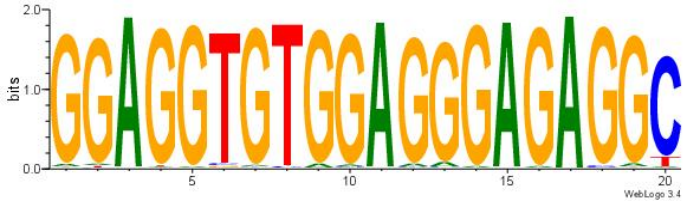

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168099

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
CAAGCCTSKGCAATGGCAGG
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

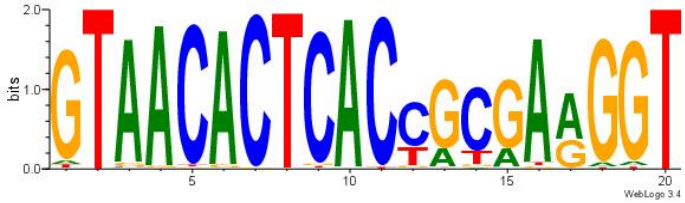

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

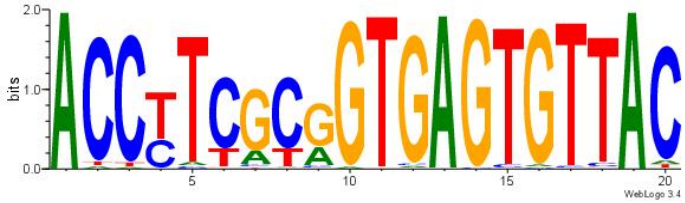

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.169967

Alignment:
CTGGCCCTCAATGGTTAAAC
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

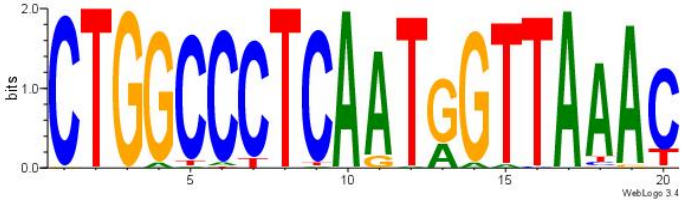

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

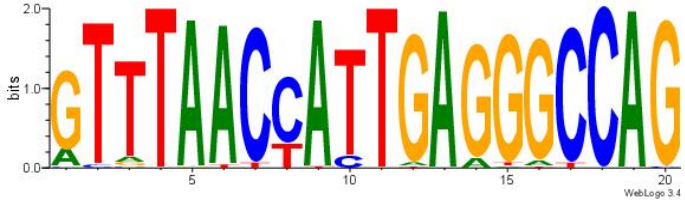

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.170575

Alignment:
CTGGGTCCCCCAGCAGTGCC
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

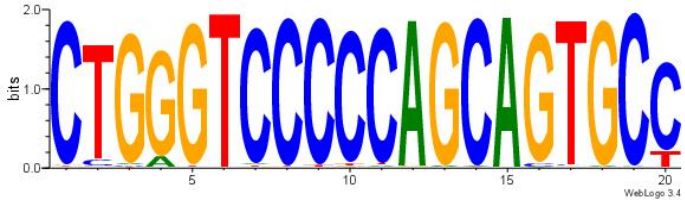

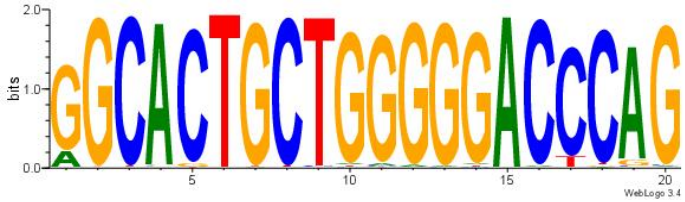

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.171917

Alignment:

```
GTTATTAATTGGCCTAATTT
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

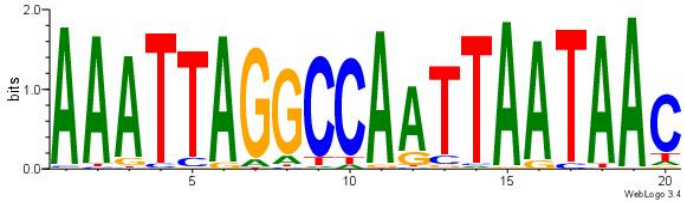

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.172905

Alignment:

```
CTCCAGKTMCATCCATGTTG
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

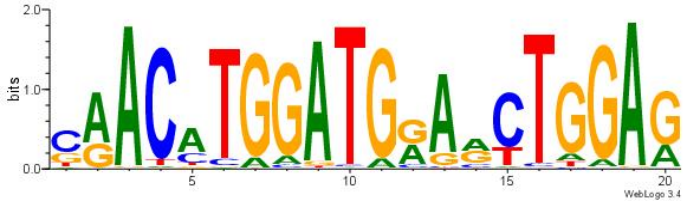

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

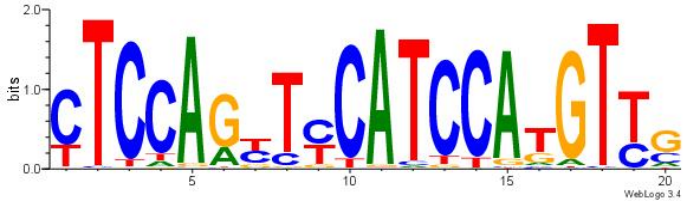

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.173416

Alignment:
GCTGGAGTGCAGTGGCRYGA
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

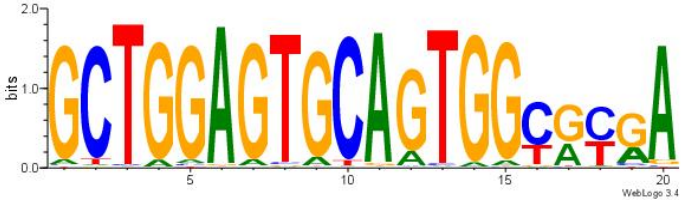

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

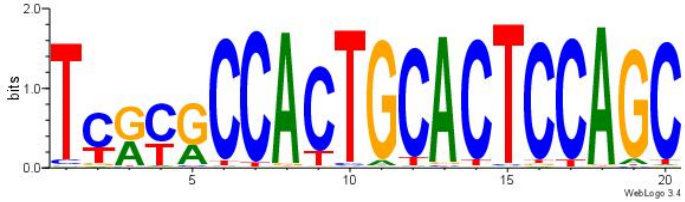

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.173467

Alignment:
GCTCCACCCAGTTCGAGCTT
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

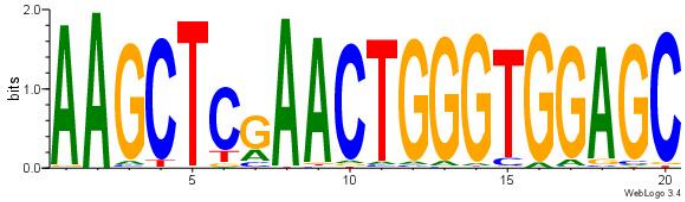

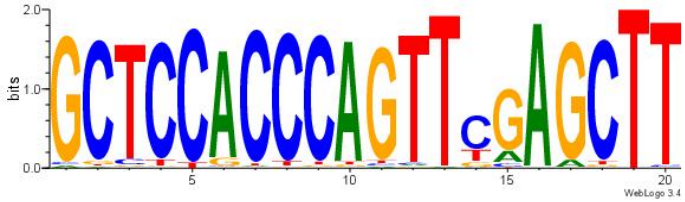

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.173718

Alignment:
GAAACTGCTTTGTGATGTGT
CAAGCCTSKGCAATGGCAGG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

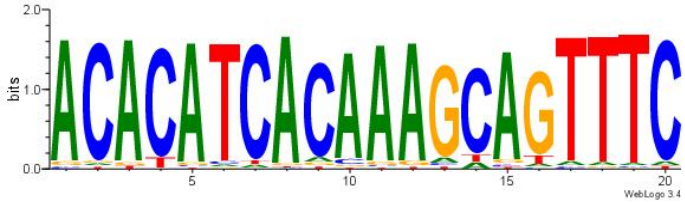

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

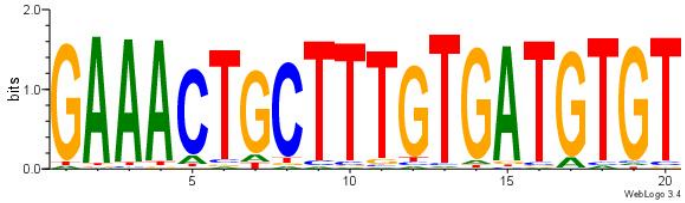

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.173776

Alignment:

```
GCCAATTTCTCCCATTTGGA
CCTGCCATTGCYSAGGCTTG
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

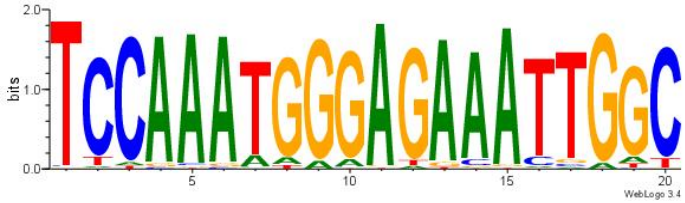

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

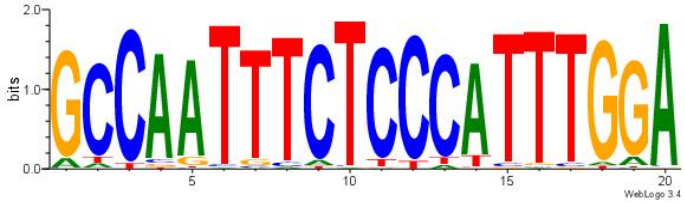

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.17394

Alignment:
TTTYTWTTTTTTYTWGAGAC
CCTGCCATTGCYSAGGCTTG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

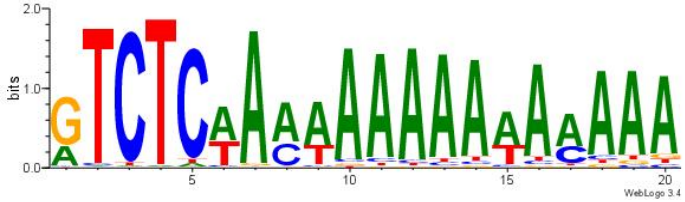

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

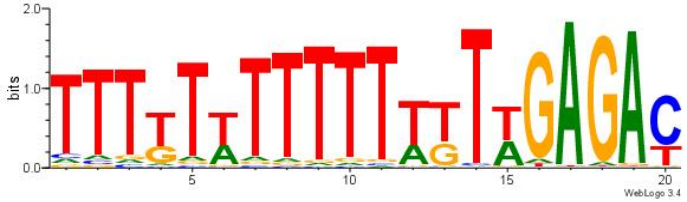

Dataset #: 1 Motif ID: 197 Motif name: Motif 197

Original motif Consensus sequence: CGCCCGGCCAGC

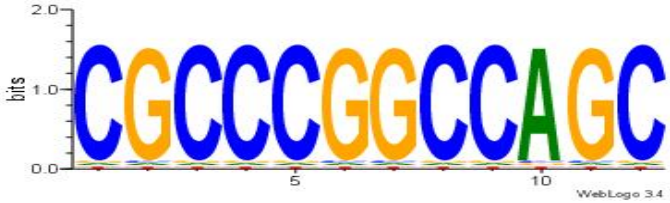

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

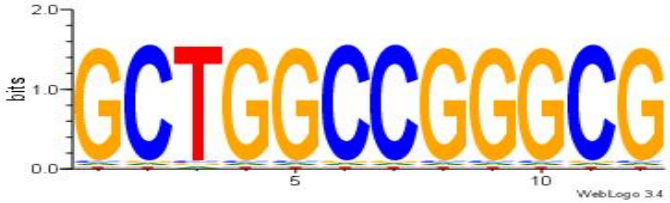

Best Matches for Motif ID 197 (Highest to Lowest)

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0154405

Alignment:
GCGGCTGGCCGGGCG
---GCTGGCCGGGCG

Original motif Consensus sequence: CGCCCGGCCAGCCGC

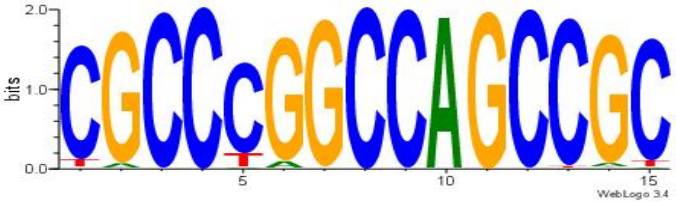

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

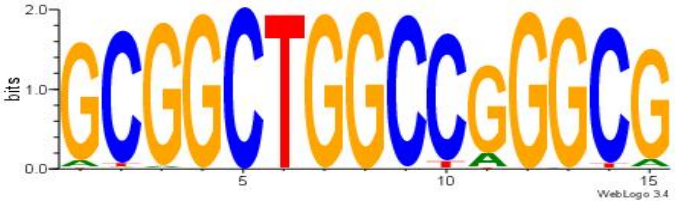

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0710698

Alignment:
CTCTGCCCGGCCGC
-GCTGGCCGGGCG-

Original motif Consensus sequence: CTCTGCCCGGCCGC

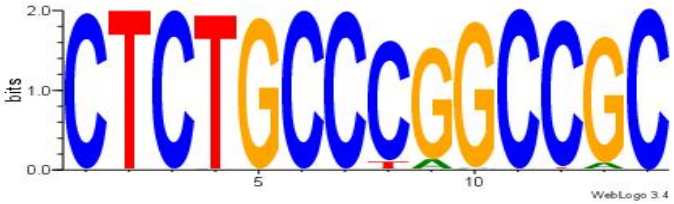

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

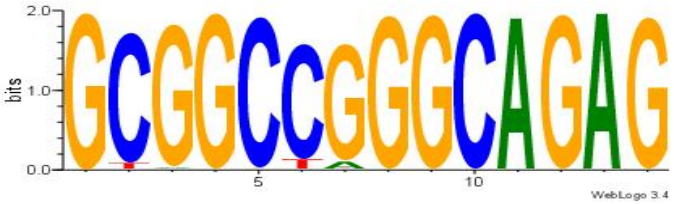

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.076685

Alignment:

```
GTTGGCCAGGCTGGTCT
GCTGGCCGGGCG-----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

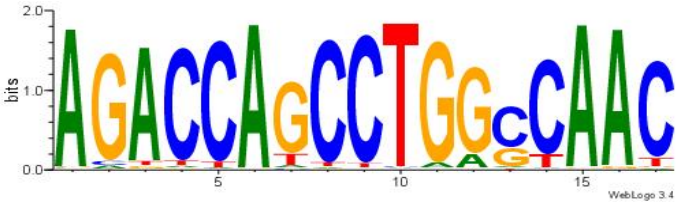

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

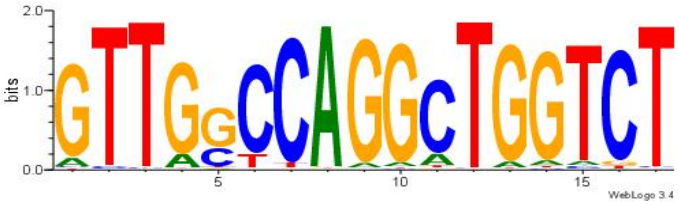

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0771111

Alignment:

```
GCCRGCCCTGCYGGCC
---CGCCCGGCCAGC-
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

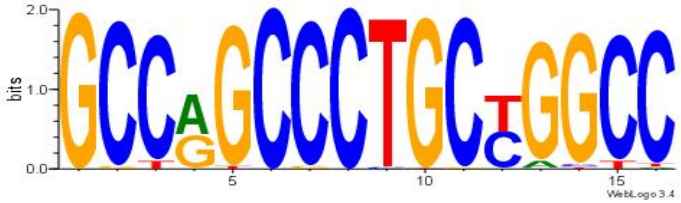

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

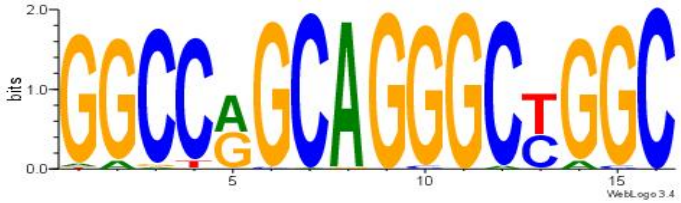

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8

Number of overlap: 12
Similarity score: 0.0775994

Alignment:
GCTTAGCACCYGGGCCAGC
-------CGCCCGGCCAGC

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

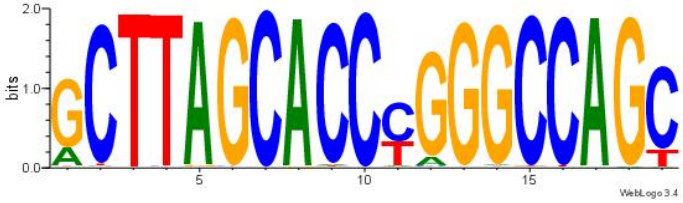

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

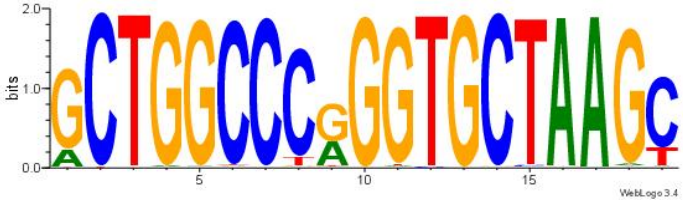

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.0824227

Alignment:
GCCACCAMGCCMKGCTAAT
CGCCCGGCCAGC-------

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

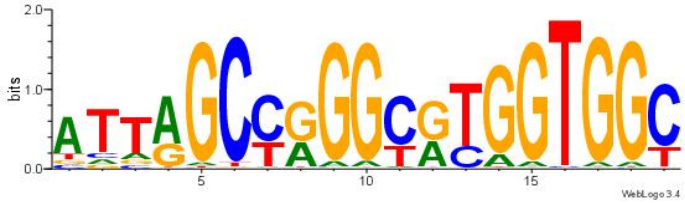

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

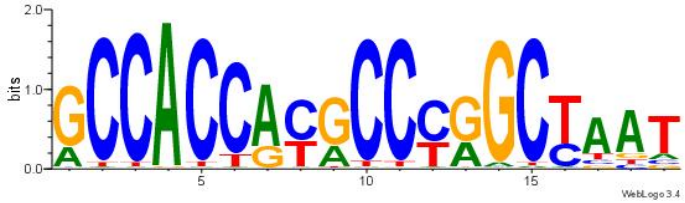

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0852396

Alignment:

```
CTTTCTGGGCTGGCCAAGG
---GCTGGCCGGGCG----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

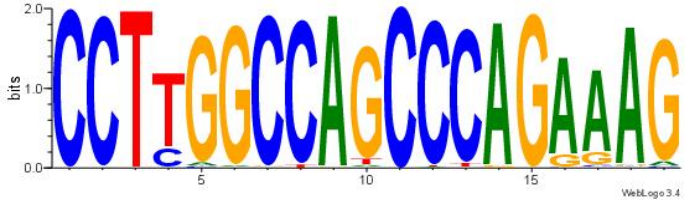

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

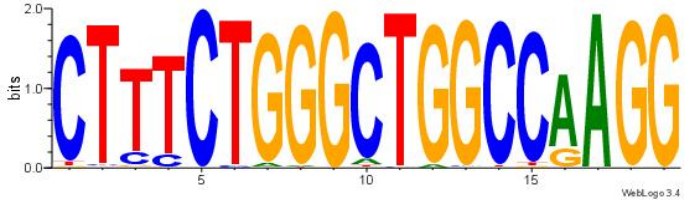

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0853777

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
--------GCTGGCCGGGCG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

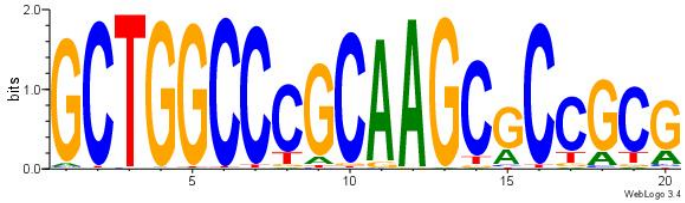

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

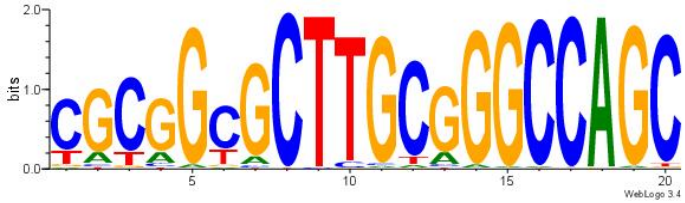

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0869788

Alignment:
GACTGGCAGGCAGCTCCACC
-------GCTGGCCGGGCG-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

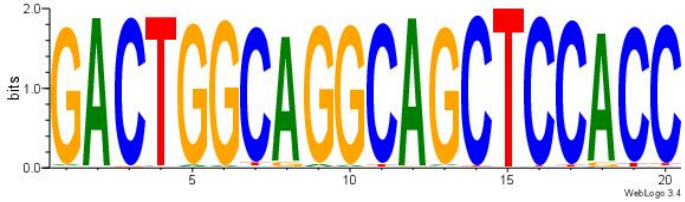

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

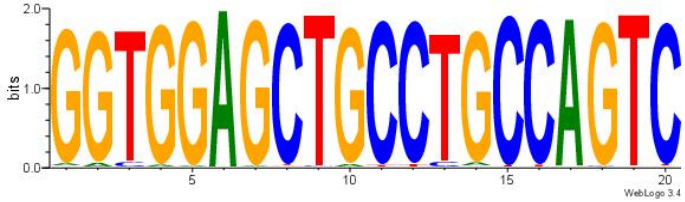

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0871185

Alignment:
AGTTCCGGGTGGGCGTGGG
GCTGGCCGGGCG-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

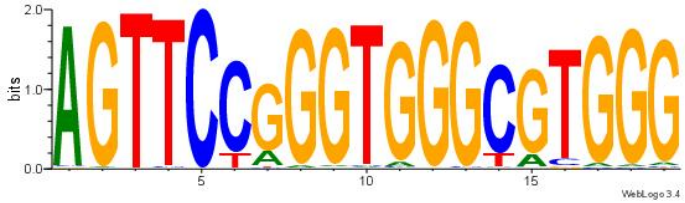

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

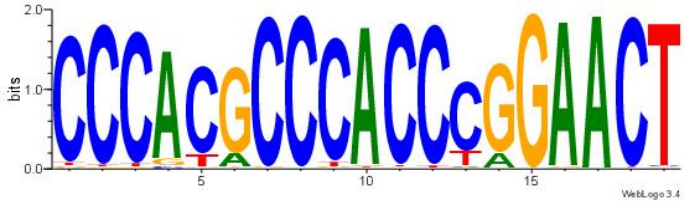

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0892527

Alignment:

```
CAGGCGGCTGGGAG
--GCTGGCCGGGCG
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

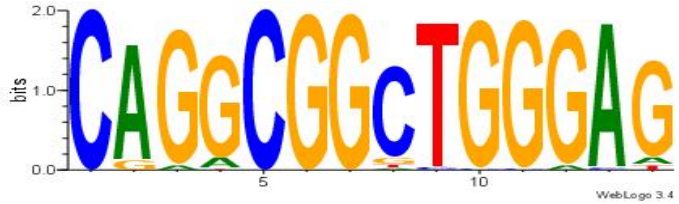

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

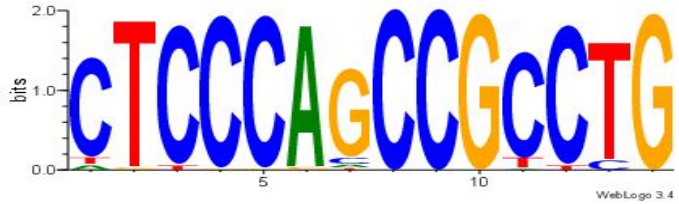

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.089871

Alignment:

```
TCCCTCCCGGACGGGGYGGC
---CGCCCGGCCAGC-----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

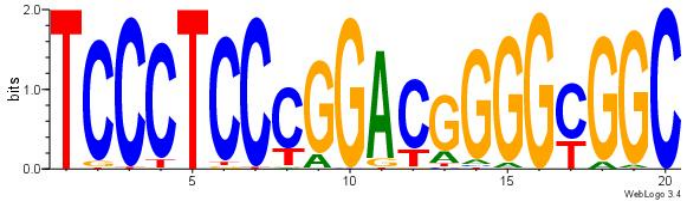

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

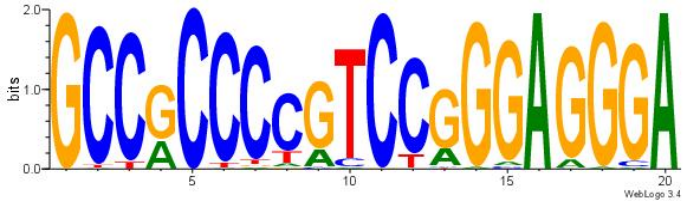

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0930131

Alignment:
TCACKMGGGAAGCGCAAG
-----CGCCCGGCCAGC-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

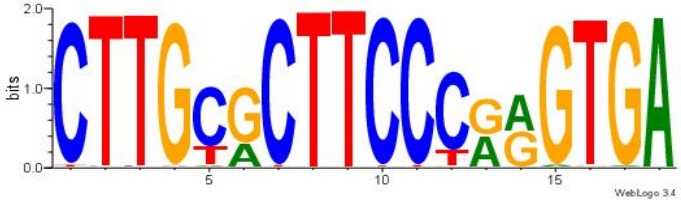

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

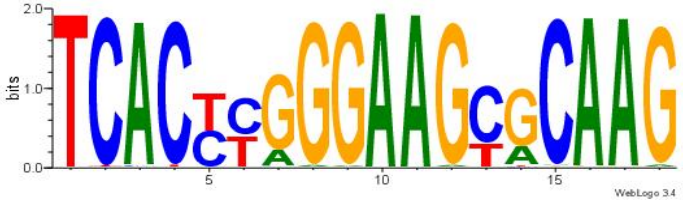

Dataset #: 1
Motif ID: 39
Motif name: Motif 39
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0938586

Alignment:
CCTCCCAGCCGCCT
-CGCCCGGCCAGC-

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

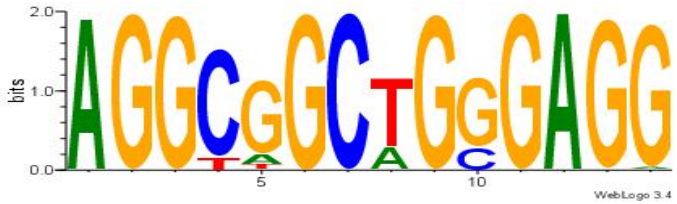

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.09417

Alignment:

```
GGGTGCAGGMGGGCTGAGT
----GCTGGCCGGGCG---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

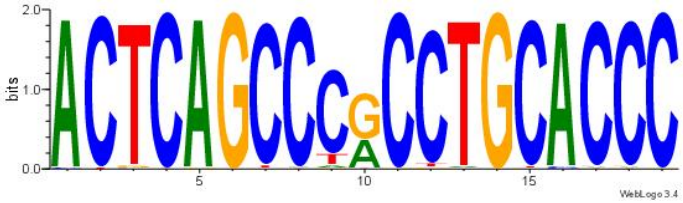

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

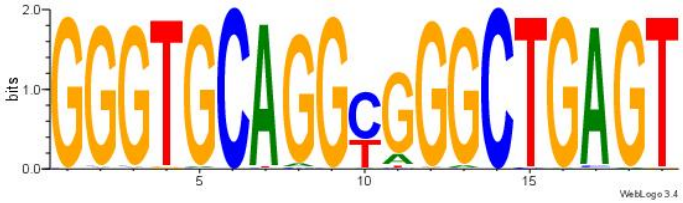

Dataset #: 1

Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0946969

Alignment:

GCAGGAGGTGAG

GCTGGCCGGGCG

Original motif Consensus sequence: CTCACCTCCTGC

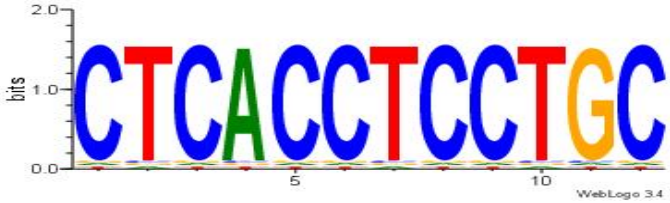

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

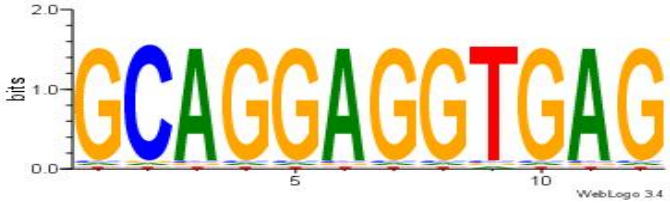

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0947524

Alignment:
CACTTCCCAGACGGGGCG
GCTGGCCGGGCG------

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

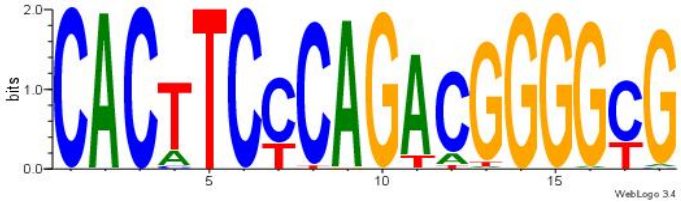

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

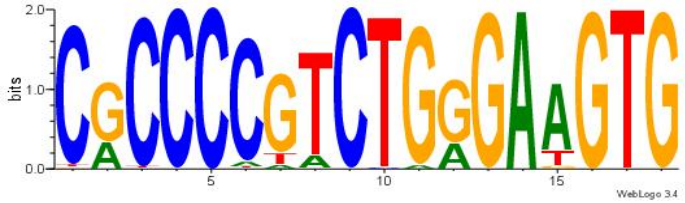

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0948958

Alignment:
CCGCGCCGTGCGC
GCTGGCCGGGCG-

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

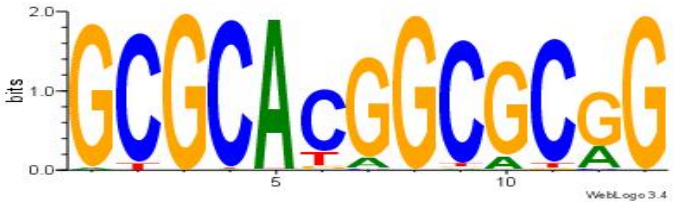

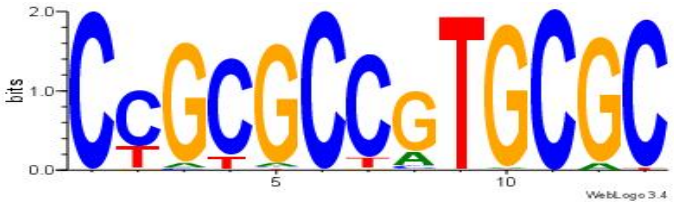

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0995921

Alignment:

```
GAGSTTGCAGTGAGC
--GCTGGCCGGGCG-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

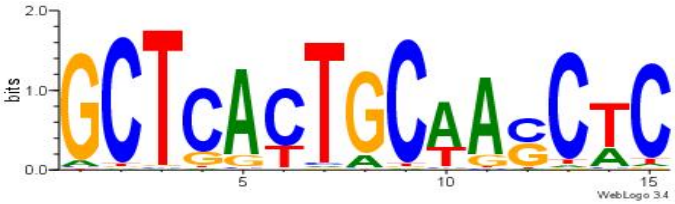

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

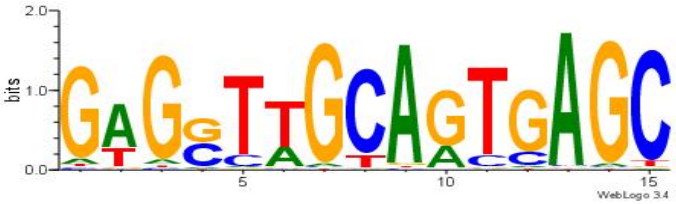

Dataset #:	1
Motif ID:	95

Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.100186

Alignment:

```
CACCTCCCAGACMGGGT
--CGCCCGGCCAGC---
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

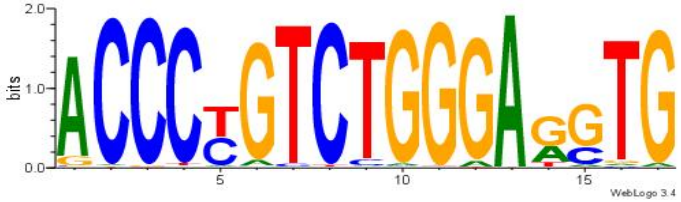

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

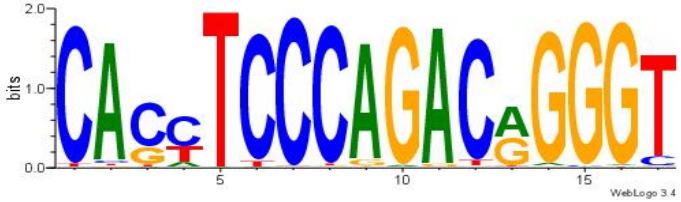

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.100318

Alignment:
TGGGCTGCCAGATG
CGCCCGGCCAGC--

Original motif Consensus sequence: CATCTGGCAGCCCA

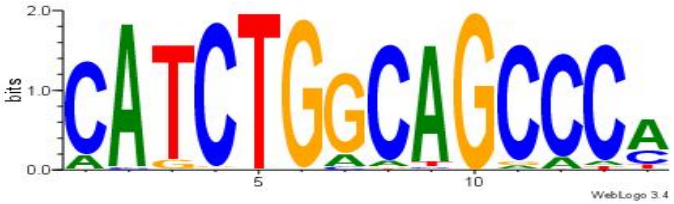

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

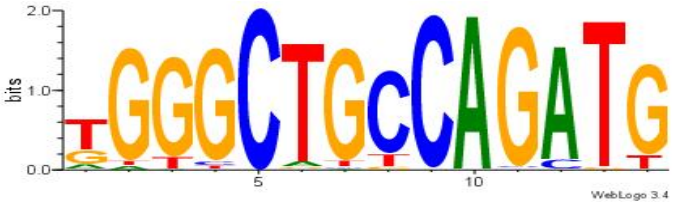

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.101698

Alignment:
CGAGCCTCCCCGAYGAGCGC
------CGCCCGGCCAGC--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

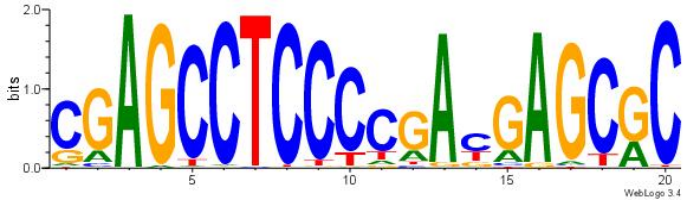

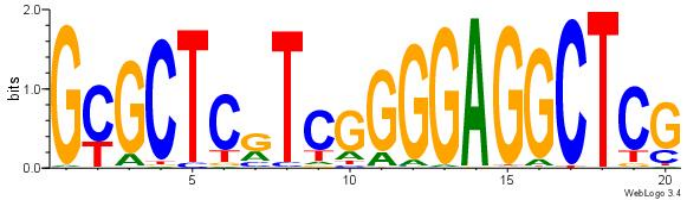

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.102107

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-------GCTGGCCGGGCG-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

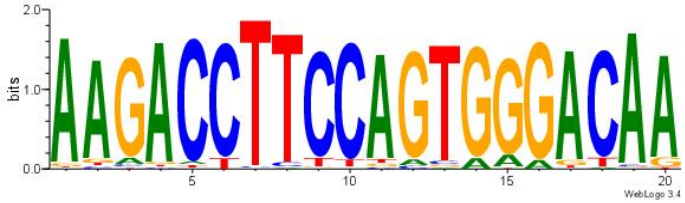

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

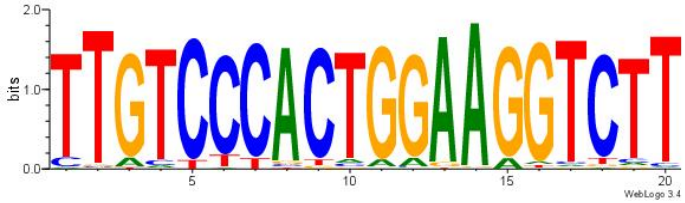

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.102523

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-------GCTGGCCGGGCG-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

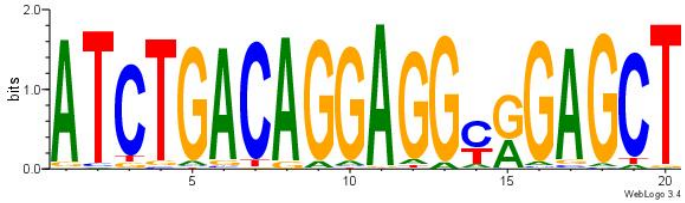

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

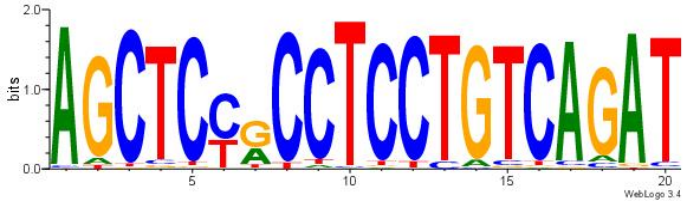

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.103148

Alignment:
AGGASCSTCYSWGCCMGGY
------CGCCCGGCCAGC-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

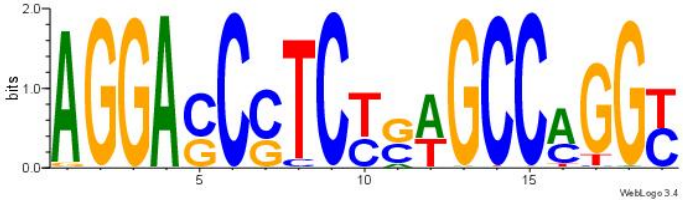

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

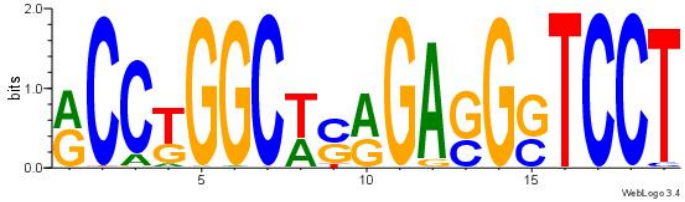

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.103897

Alignment:
CCCCGGGCAGTGAGGG
--GCTGGCCGGGCG--

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

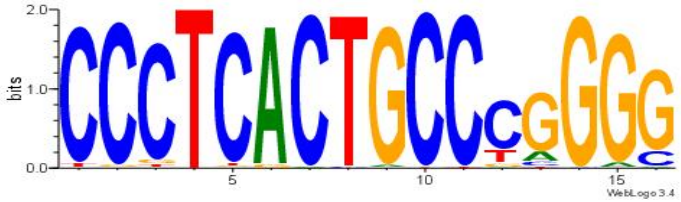

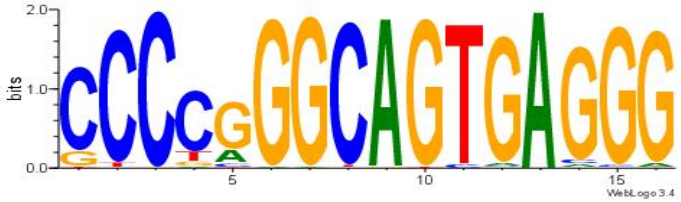

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.104029

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-GCTGGCCGGGCG-------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

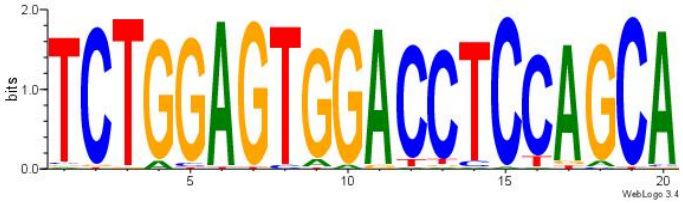

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

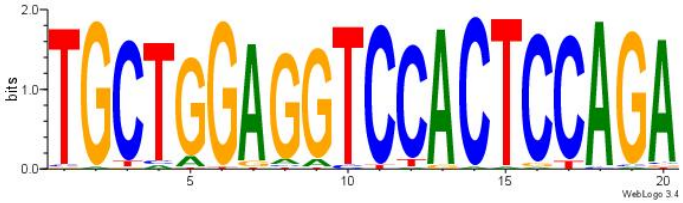

Dataset #: 1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.104249

Alignment:

```
AGCCCCGGTTCCCGCYCGC
-GCTGGCCGGGCG------
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

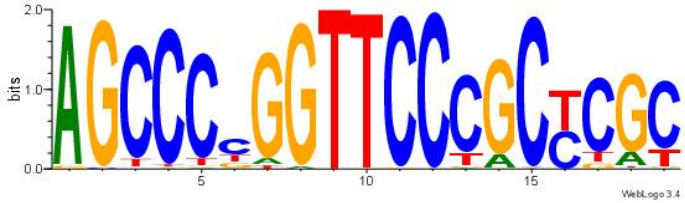

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

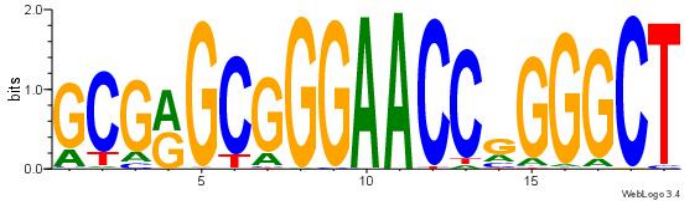

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.104309

Alignment:
TGGACCTGAGAGC
-CGCCCGGCCAGC

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

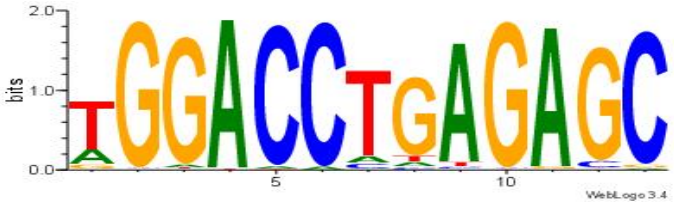

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.104713

Alignment:
GCTGGAGTGCAGTG
GCTGGCCGGGCG--

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

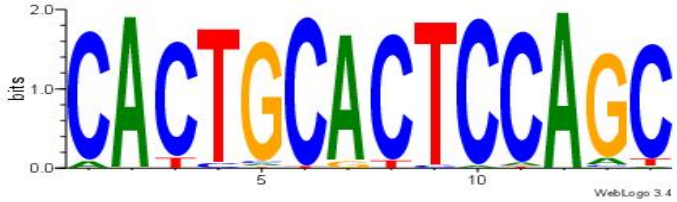

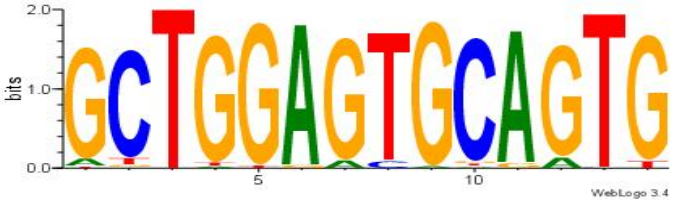

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.10492

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
--------GCTGGCCGGGCG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

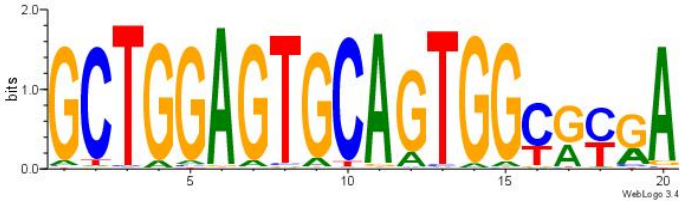

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

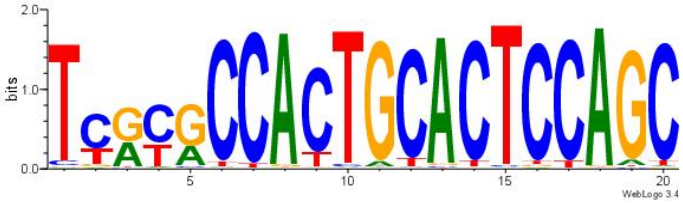

Dataset #: 1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.104994

Alignment:

```
TGATACCCAGGCAAACAG
-GCTGGCCGGGCG-----
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

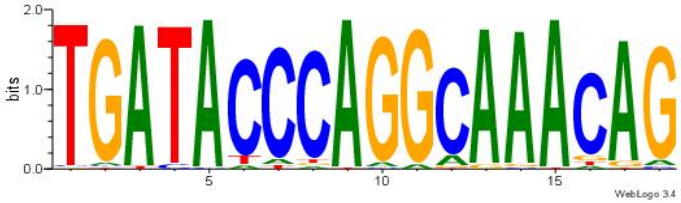

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

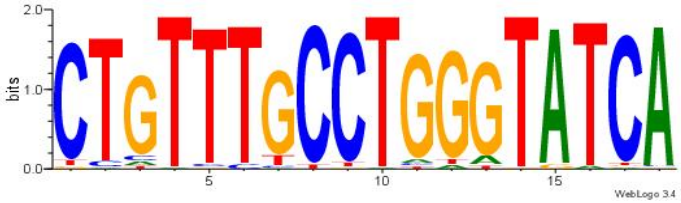

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.105257

Alignment:
TGGATGGATGGATGGAT
--GCTGGCCGGGCG---

Original motif Consensus sequence: ATCCATCCATCCATCCA

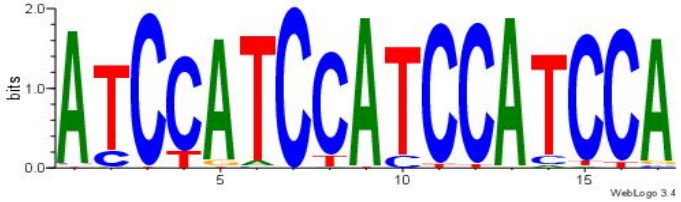

Reverse complement motif Consensus sequence:
TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.105597

Alignment:
GTCCCATCGACCACCCAAG
-------CGCCCGGCCAGC

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

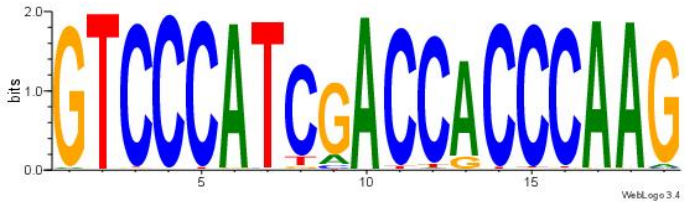

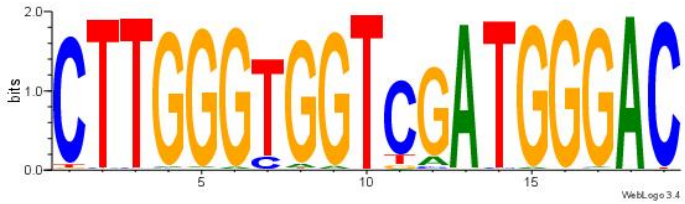

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.105797

Alignment:

```
CCGCGGGGCAGGGCTCG
---GCTGGCCGGGCG--
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

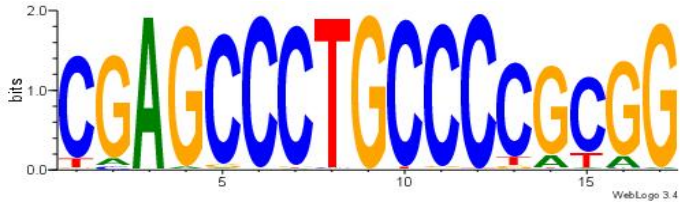

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

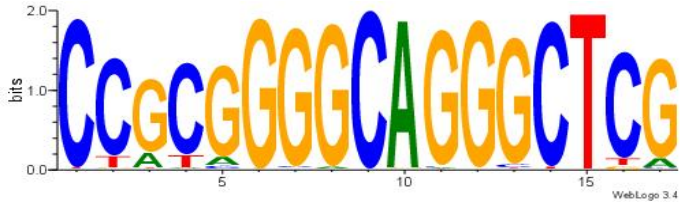

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.106056

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
------GCTGGCCGGGCG--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

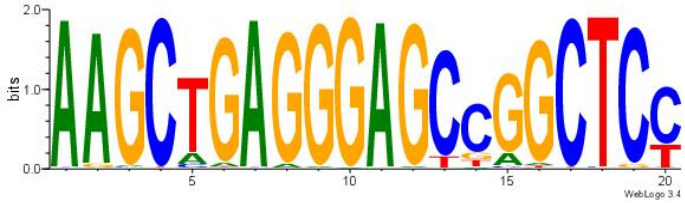

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

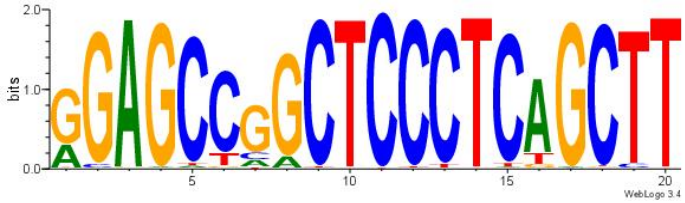

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.106098

Alignment:
CAGCCAGATCRSCC
-CGCCCGGCCAGC-

Original motif Consensus sequence: CAGCCAGATCRSCC

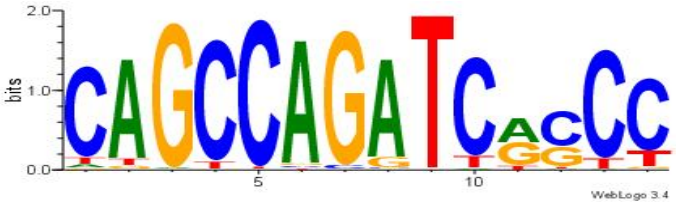

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

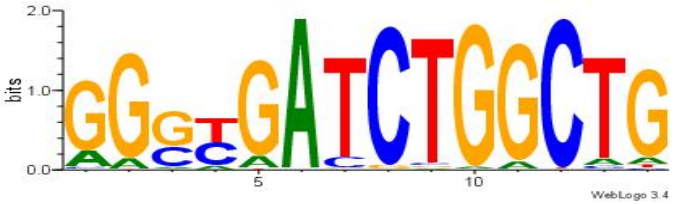

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.106178

Alignment:
CATGGCGGGCTGCAGGTC
--GCTGGCCGGGCG----

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

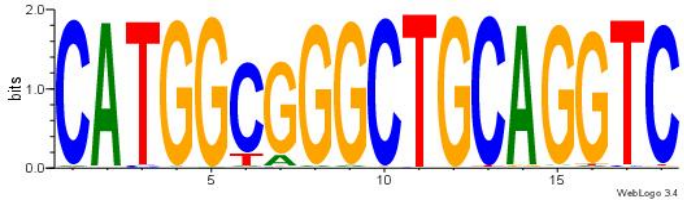

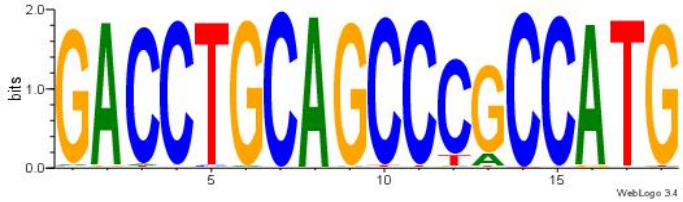

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.106509

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
--CGCCCGGCCAGC------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

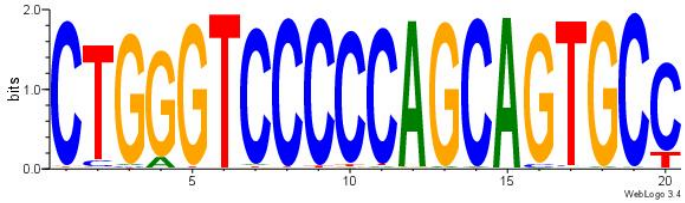

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

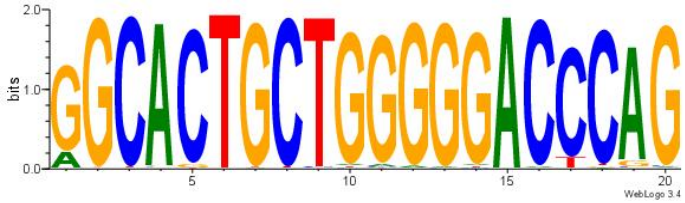

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.106575

Alignment:

```
GAATCCTGGGACAGCCTGT
---CGCCCGGCCAGC----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

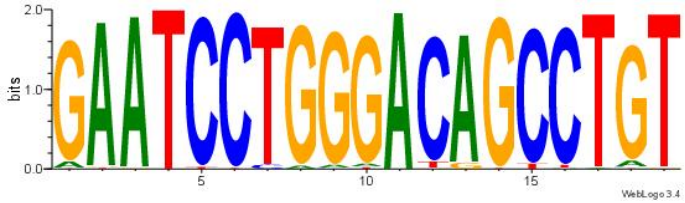

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

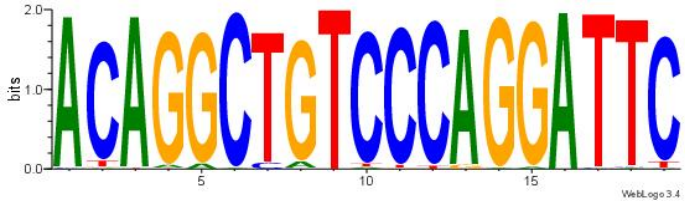

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.106786

Alignment:
CCCGAAGCTGCRYRCTCGGT
--GCTGGCCGGGCG------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

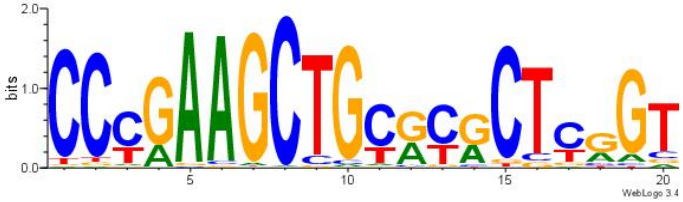

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

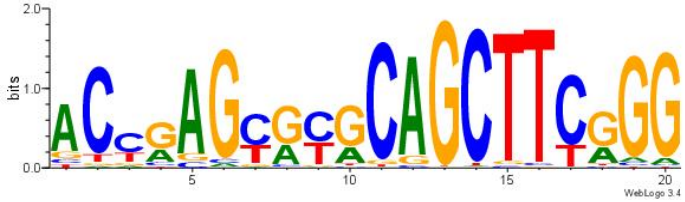

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.106949

Alignment:
AGATGCCAGCCAGAGCTCT
--CGCCCGGCCAGC-----

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

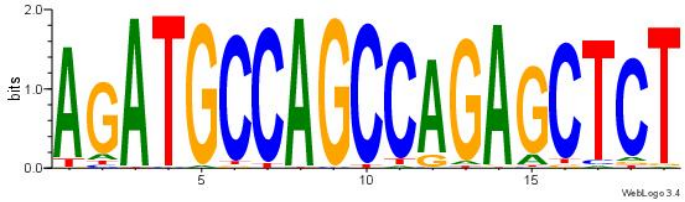

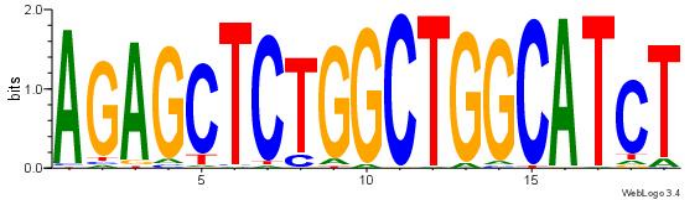

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.107093

Alignment:

```
CCGCTGCACTGTGGGAGCCC
------GCTGGCCGGGCG--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

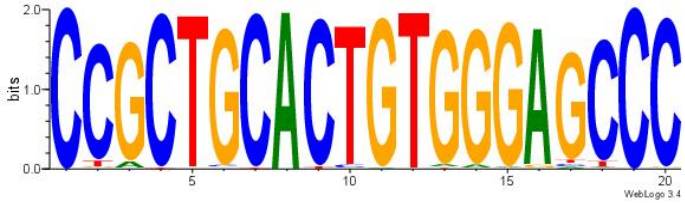

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

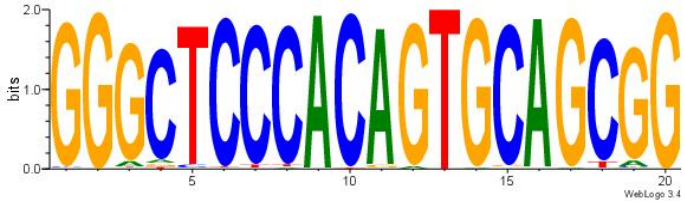

Dataset #:	1

Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107291

Alignment:

GCGGCGGCGGCG

GCTGGCCGGGCG

Original motif Consensus sequence: CGCCGCCGCCGC

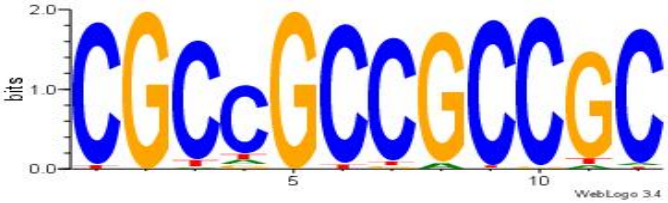

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

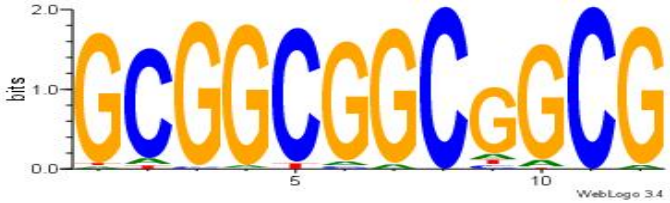

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.107513

Alignment:
AWTKKTGGTTKCCAGKGGCT
------GCTGGCCGGGCG--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

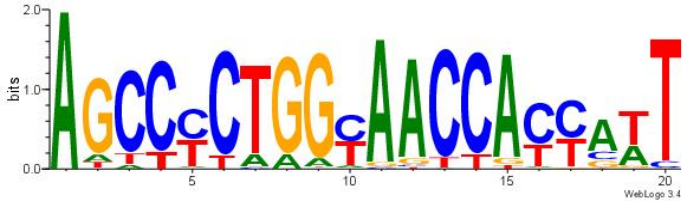

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

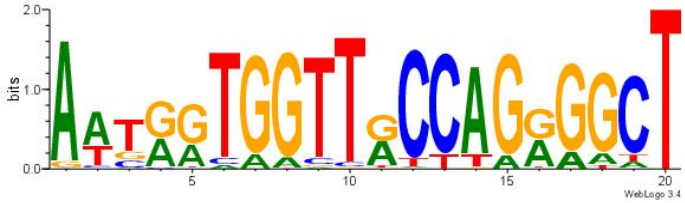

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107602

Alignment:
CCTCCCSGACGRG
-CGCCCGGCCAGC

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGC

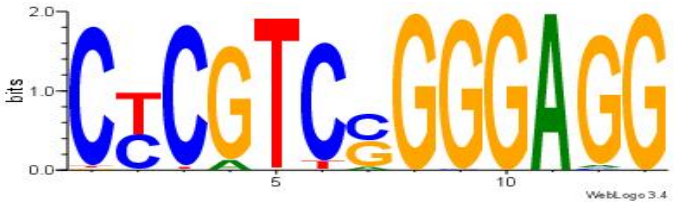

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.107921

Alignment:

```
AGCTCCCAGCGTGAGCGACG
--CGCCCGGCCAGC------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

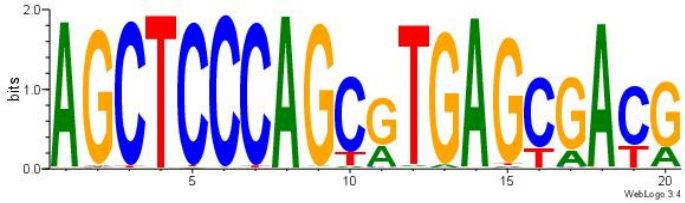

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

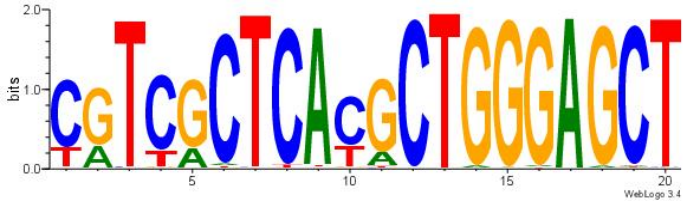

Dataset #:	1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.107939

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----CGCCCGGCCAGC---
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

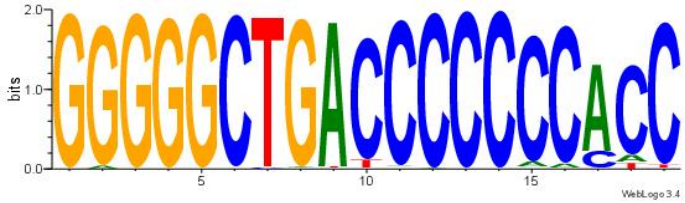

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

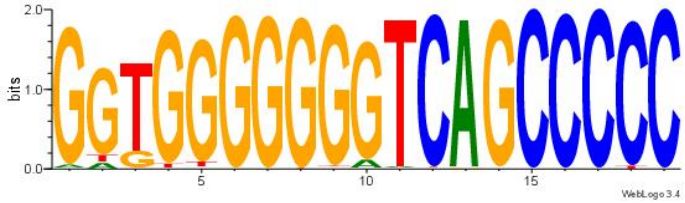

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.108779

Alignment:
CMGCTCCGAGTGCGG
--GCTGGCCGGGCG-

Original motif Consensus sequence: CCGCACTCGGAGCRG

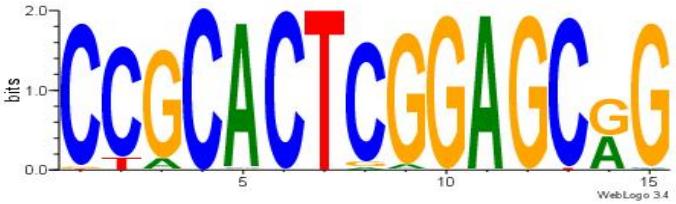

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

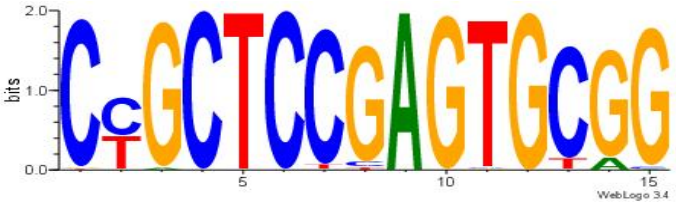

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.109206

Alignment:
CTCCTGACCTCGTGATC
--GCTGGCCGGGCG---

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

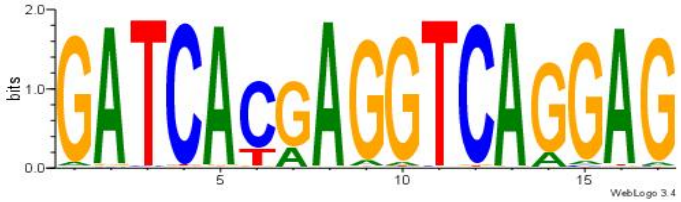

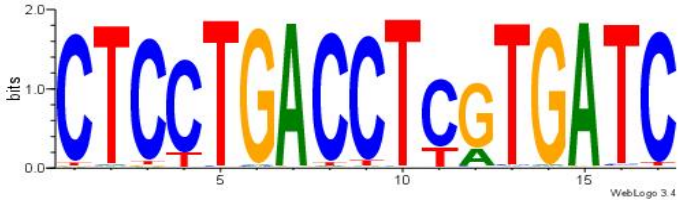

Dataset #: 1 Motif ID: 198 Motif name: Motif 198

Original motif Consensus sequence: AGGGMAGGGA

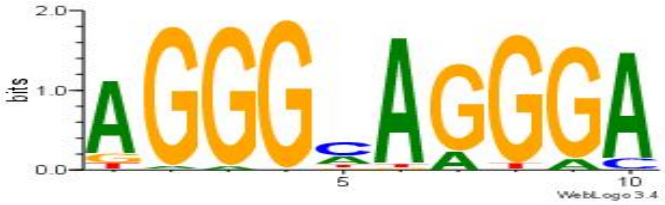

Reverse complement motif Consensus sequence: TCCCTRCCCT

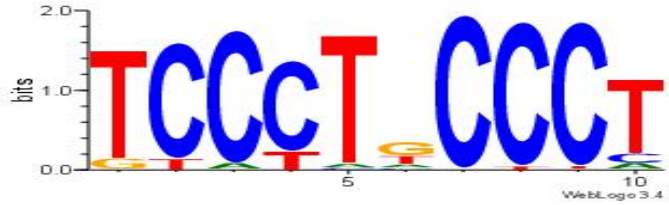

Best Matches for Motif ID 198 (Highest to Lowest)

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0499279

Alignment:

```
CGAGCCCTGCCCCGCGG
----TCCCTRCCCT---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

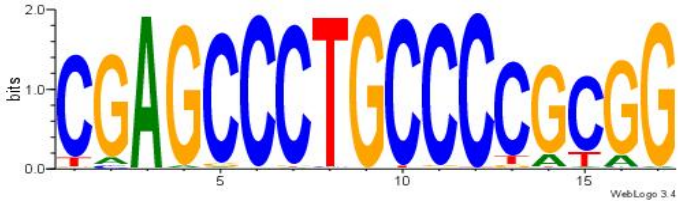

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

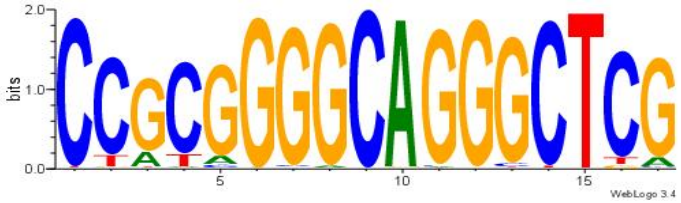

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0554968

Alignment:

```
GAAAGGGAACTCCCTGACCC
TCCCTRCCCT----------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

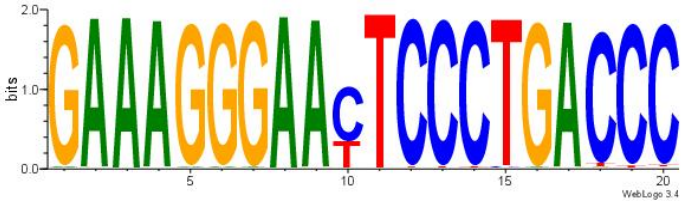

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

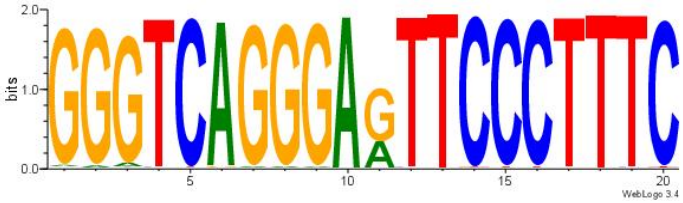

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0566967

Alignment:

```
CCCTCACTGCCCGGGG
---TCCCTRCCCT---
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

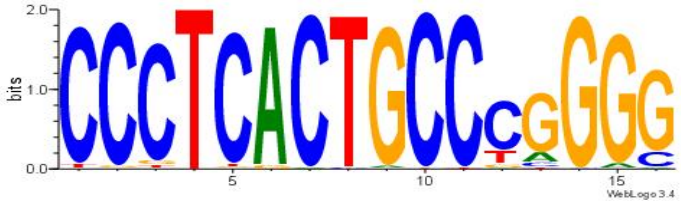

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

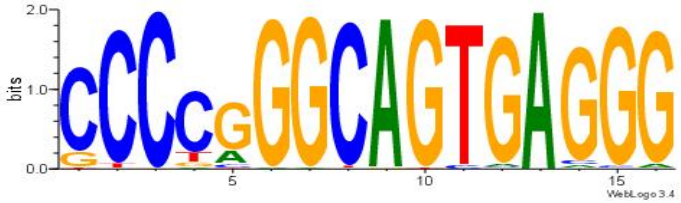

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 10
Similarity score: 0.0612344

Alignment:
GGGAGGAAGGGGACAC
---AGGGMAGGGA---

Original motif Consensus sequence: GGGAGGAAGGGGACAC

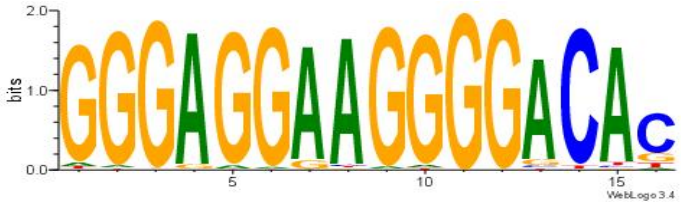

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

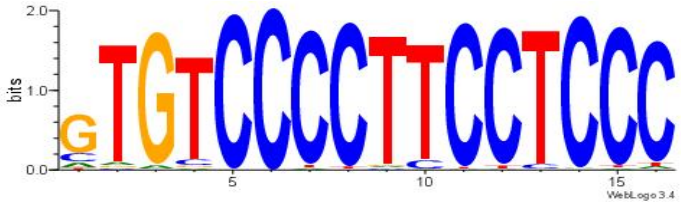

Dataset #: 1
Motif ID: 46
Motif name: Motif 46
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0645706

Alignment:
TGGGGGWGGGG
AGGGMAGGGA-

Original motif Consensus sequence: CCCCWCCCCCA

Reverse complement motif Consensus sequence: TGGGGGWGGGG

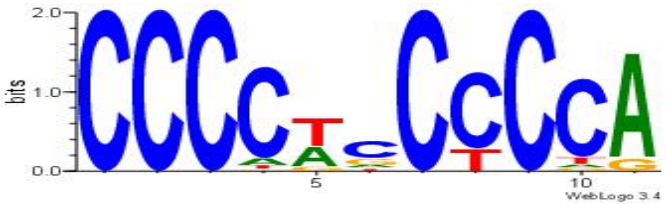

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0655528

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-----AGGGMAGGGA-----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

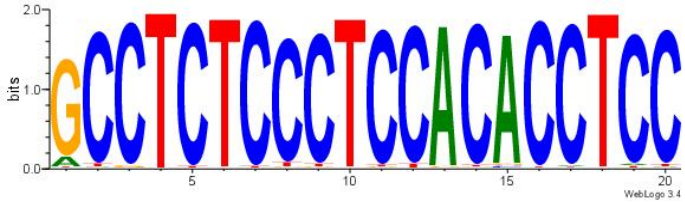

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

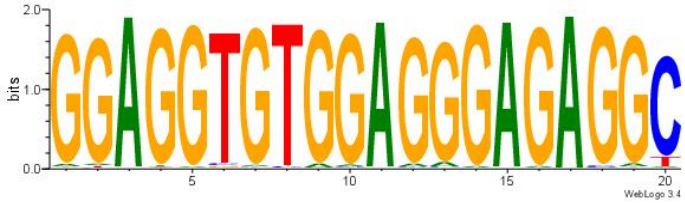

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0663092

Alignment:

```
AAGCAGGGCGAGGCATTGCC
----AGGGMAGGGA------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

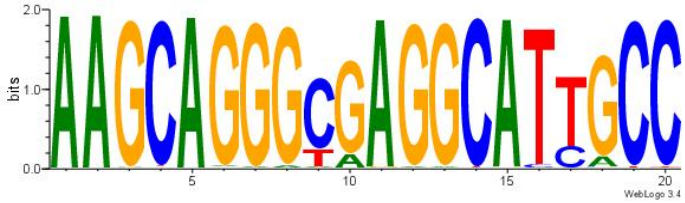

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

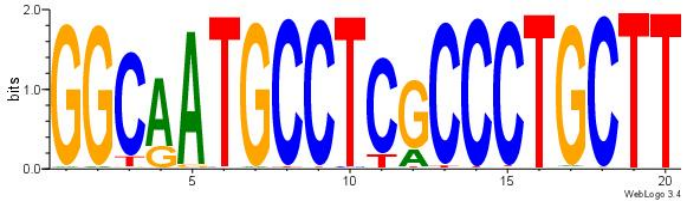

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0689239

Alignment:
GKGGCAGTGAGGC
AGGGMAGGGA---

Original motif Consensus sequence: GCCTCACTGCCRC

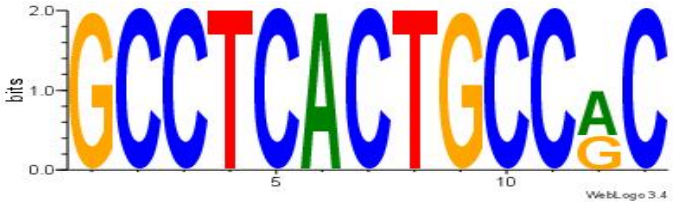

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

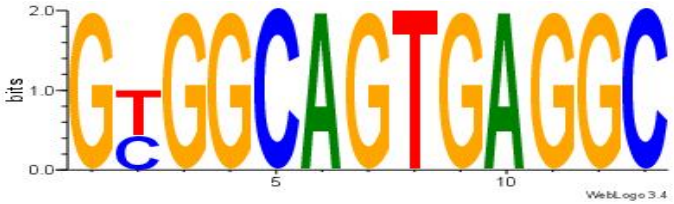

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.069251

Alignment:
GGAGCCGGCTCCCTCAGCTT
---------TCCCTRCCCT-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

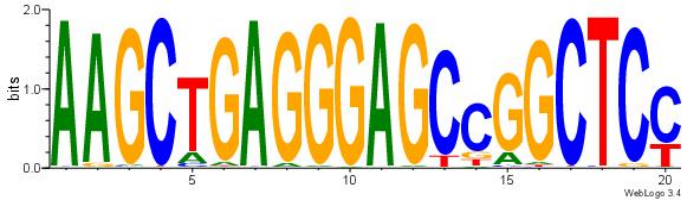

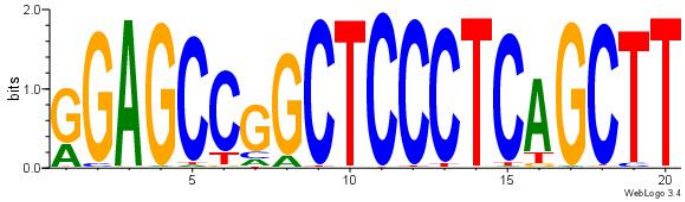

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.069514

Alignment:

```
CTGGTCAAGGAAA
-AGGGMAGGGA--
```

Original motif Consensus sequence: CTGGTCAAGGAAA

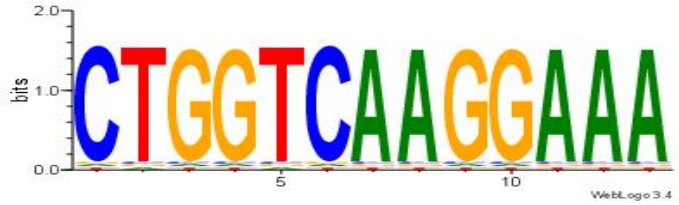

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

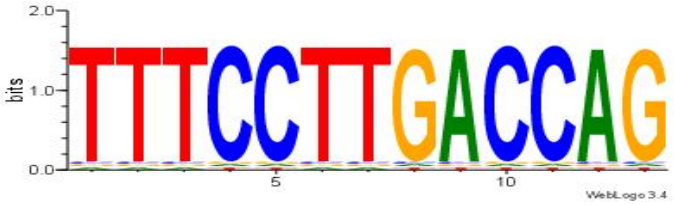

Dataset #:	1
Motif ID:	155

Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0705798

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
AGGGMAGGGA----------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

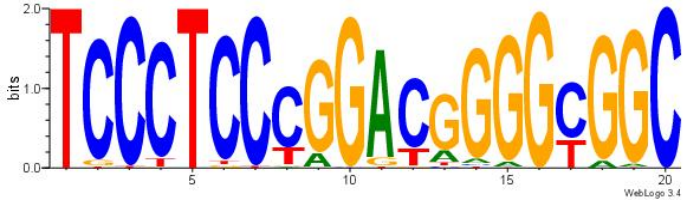

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

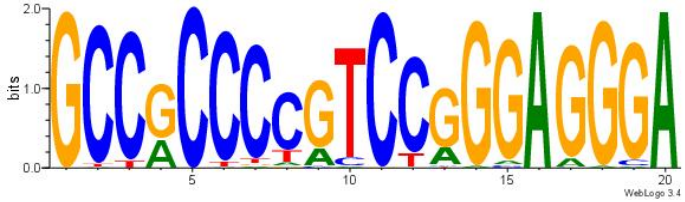

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0716116

Alignment:
GCCGGGRAGAGGCGCTCCT
-------AGGGMAGGGA--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

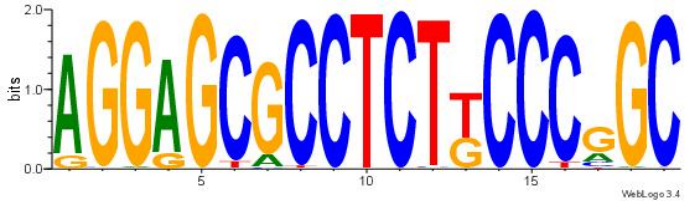

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

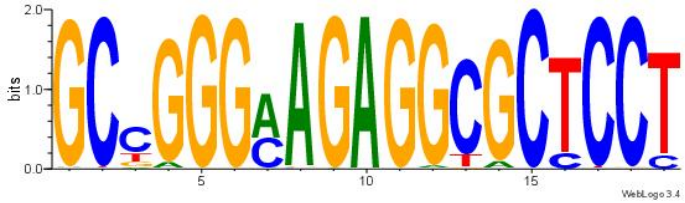

Dataset #:	1
Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0719681

Alignment:
MTTGACTACCCTA
--TCCCTRCCCT-

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

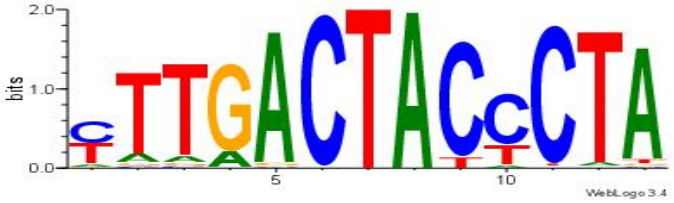

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0730822

Alignment:

```
CAGGCGGCTGGGAG
---AGGGMAGGGA-
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

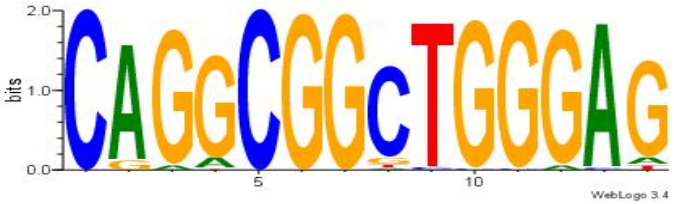

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

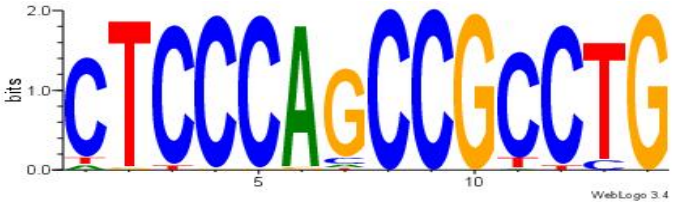

Dataset #:	1
Motif ID:	3

Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0756117

Alignment:

```
TCKMGCCACTGCACTCCAGC
-----TCCCTRCCCT-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

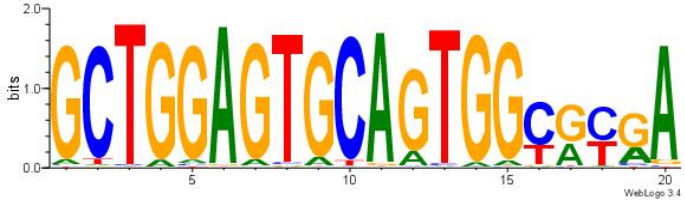

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

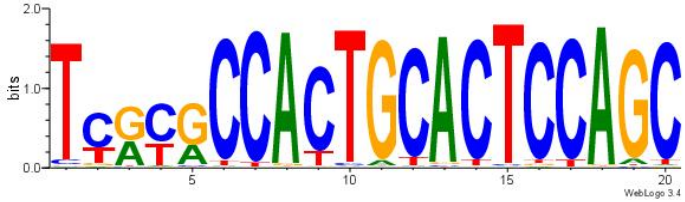

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0761196

Alignment:
GATCACGAGGTCAGGAG
-------AGGGMAGGGA

Original motif Consensus sequence: GATCACGAGGTCAGGAG

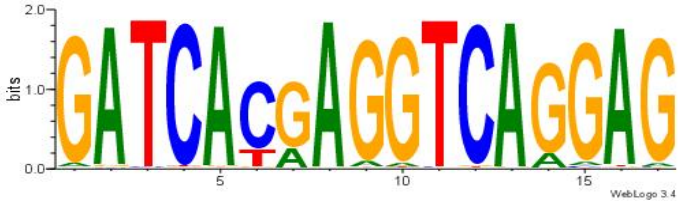

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

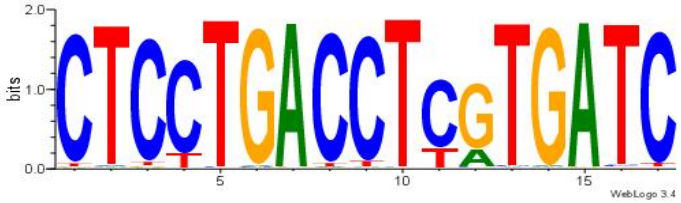

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0761674

Alignment:
GGTGGAGCTGCCTGCCAGTC
--------TCCCTRCCCT--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

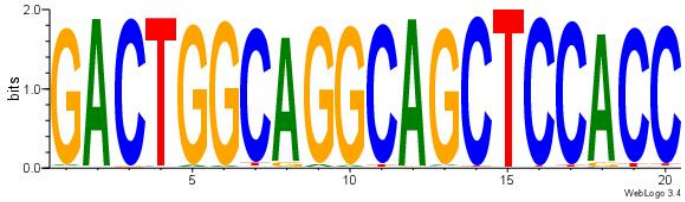

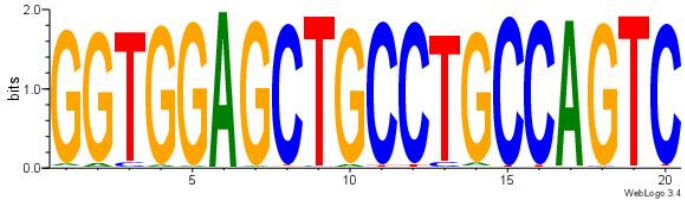

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0765611

Alignment:

```
CCACCACAGCTCAAGGAGGC
-------AGGGMAGGGA---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

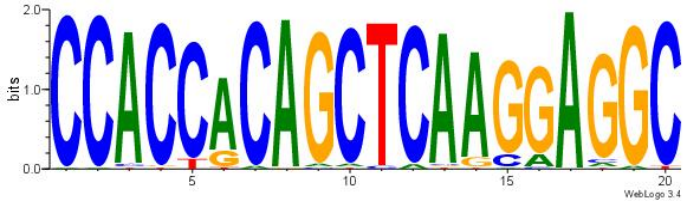

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

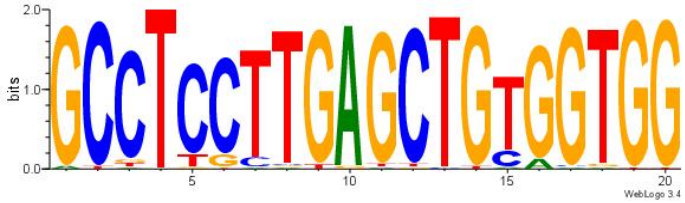

Dataset #: 1

Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.077397

Alignment:

```
GAACTCCTGACCT
---TCCCTRCCCT
```

Original motif Consensus sequence: AGGTCAGGAGTTC

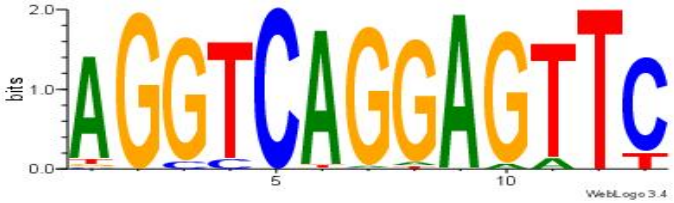

Reverse complement motif Consensus sequence: GAACTCCTGACCT

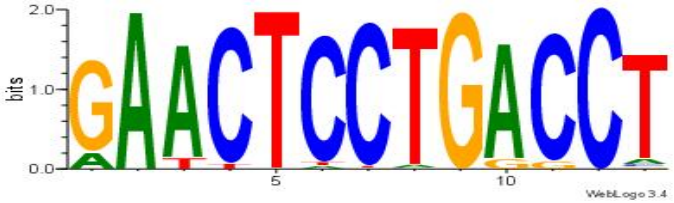

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0775407

Alignment:
MCCYGGCWSMGASGSTCCT
-------AGGGMAGGGA--

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

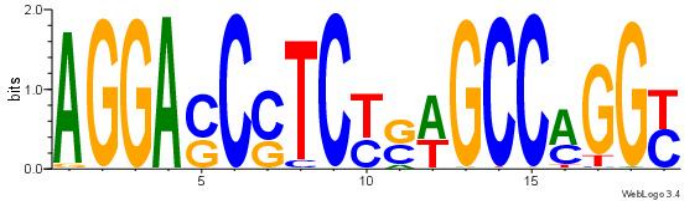

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

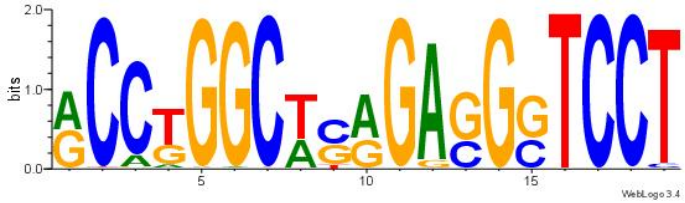

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0782569

Alignment:
CCCACACCCTTATTA
TCCCTRCCCT-----

Original motif Consensus sequence: CCCACACCCTTATTA

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

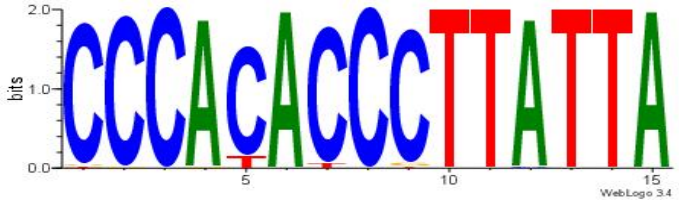

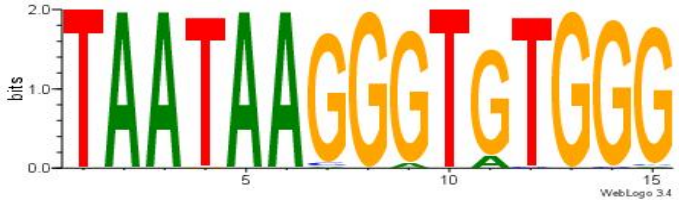

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.078628

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
---------TCCCTRCCCT-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

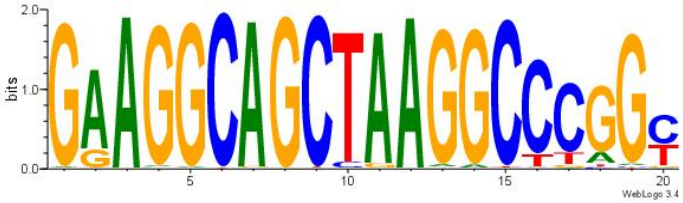

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

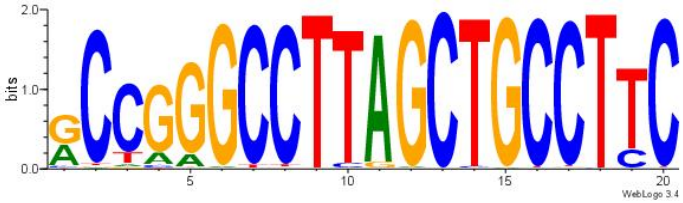

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0791079

Alignment:

```
CTTGCGCTTCCCRRGTGA
-----TCCCTRCCCT---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

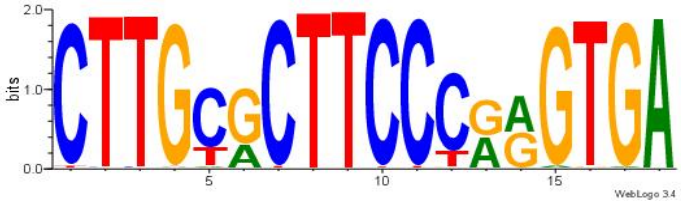

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

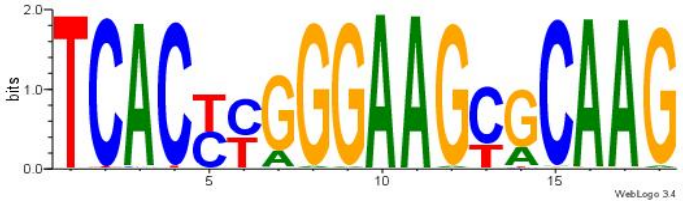

Dataset #:	1
Motif ID:	237
Motif name:	Motif 237
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0792388

Alignment:
TAGCCAAGGRAA
-AGGGMAGGGA-

Original motif Consensus sequence: TAGCCAAGGRAA

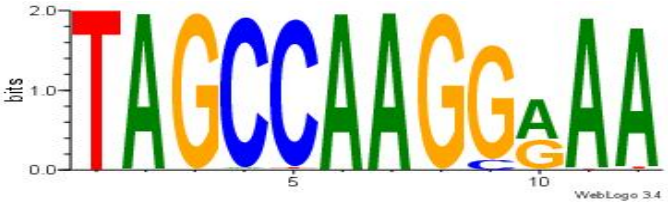

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

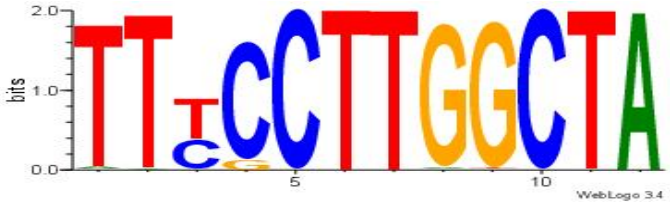

Dataset #: 1
Motif ID: 163
Motif name: Motif 163
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0806824

Alignment:
CCTCCGTGGGCTCC
--TCCCTRCCCT--

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

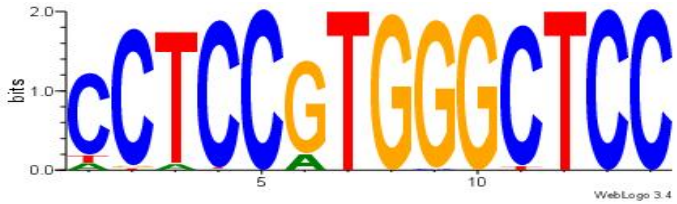

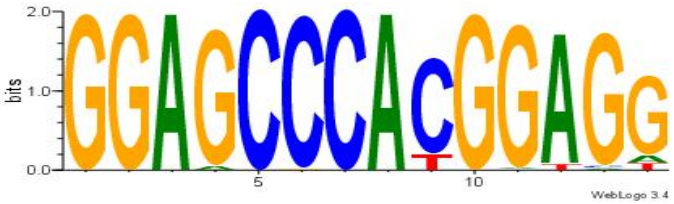

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0811743

Alignment:

```
GGGCTCCCACAGTGCAGCGG
AGGGMAGGGA----------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

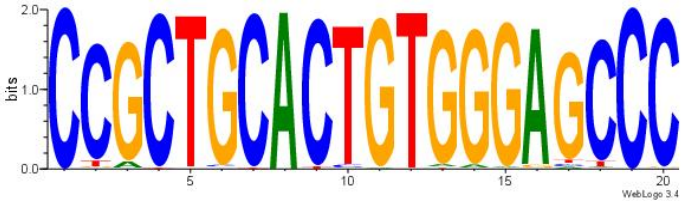

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

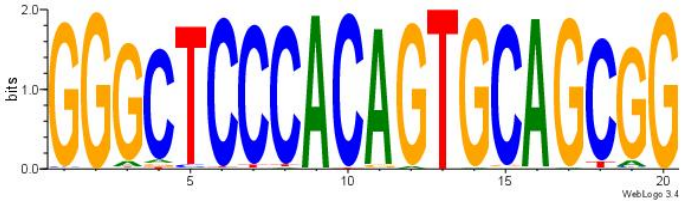

Dataset #: 1

Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0815765

Alignment:

```
AGGCGGCTGGGAGG
--AGGGMAGGGA--
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

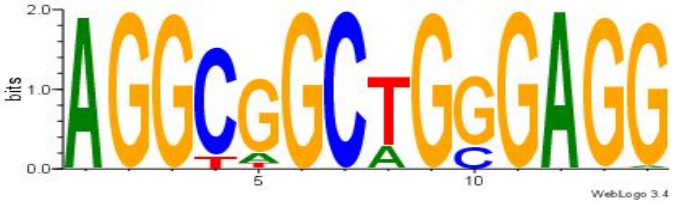

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0816296

Alignment:
GGTTTTCCATTCCTGAG
-----TCCCTRCCCT--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

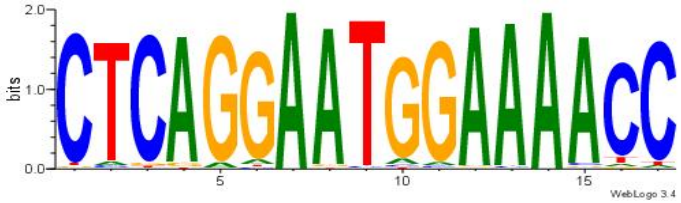

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

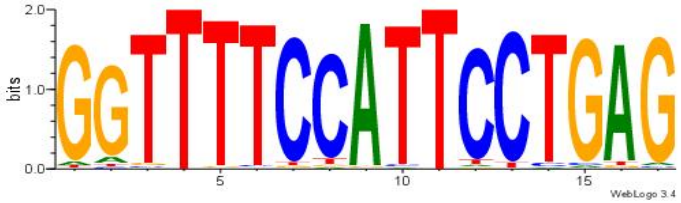

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0817166

Alignment:
GGGGTTGGGG
AGGGMAGGGA

Original motif Consensus sequence: CCCCAACCCC

Reverse complement motif Consensus sequence: GGGGTTGGGG

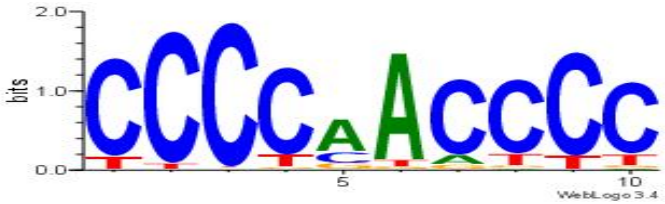

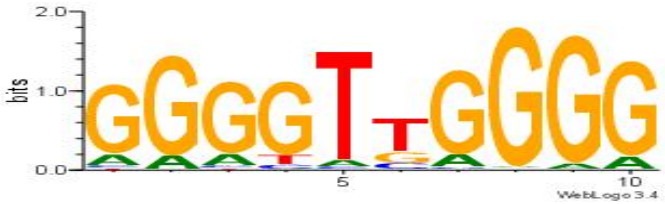

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0821658

Alignment:

```
MTCCTCCAGACCCCAGAATG
----TCCCTRCCCT------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

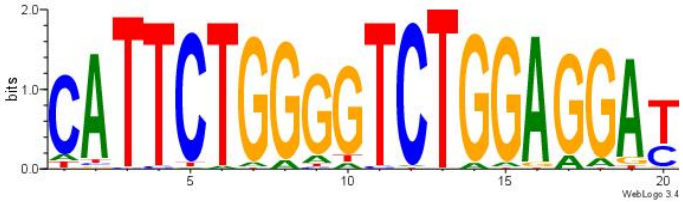

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

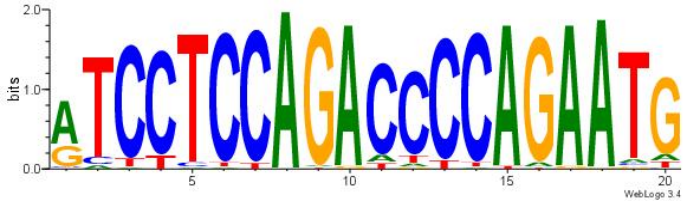

Dataset #:	1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0834955

Alignment:

```
GGGGGAGACATCACACR
AGGGMAGGGA-------
```

Original motif Consensus sequence: GGGGGAGACATCACACR

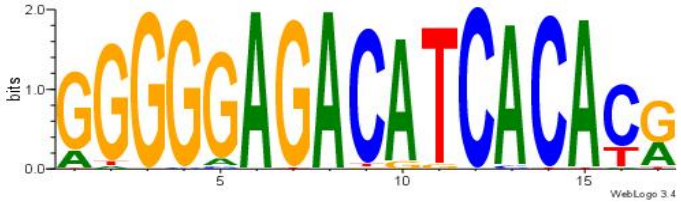

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

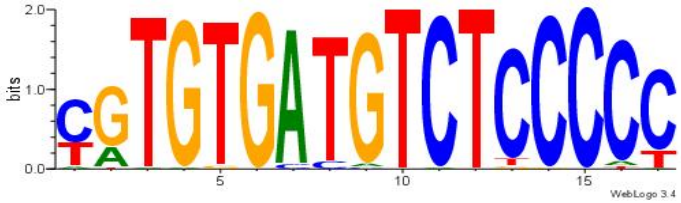

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0847173

Alignment:
GCCACCAMGCCMKGCTAAT
---TCCCTRCCCT------

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

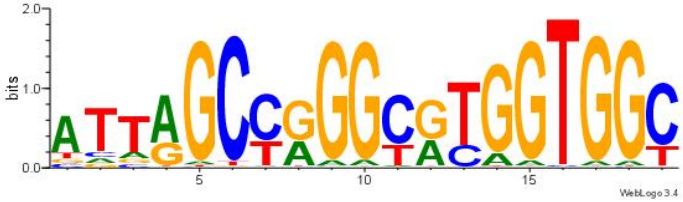

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

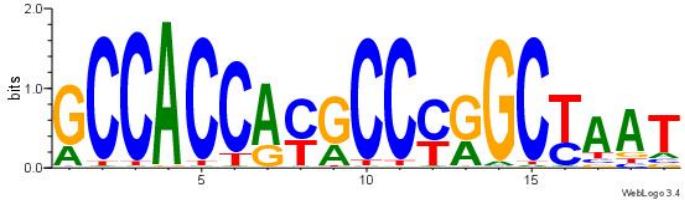

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 10
Similarity score: 0.0850766

Alignment:
GCTGCARTCTCGGCACTTT
-------TCCCTRCCCT--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

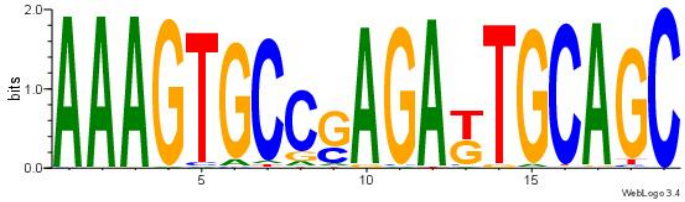

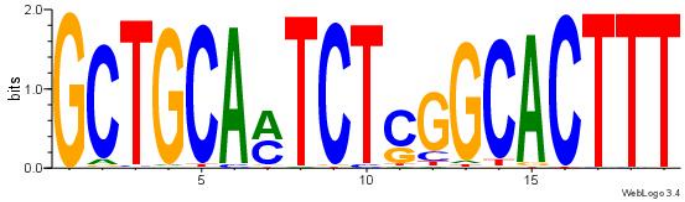

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0850955

Alignment:

```
GAGGAGGRGGAGGDGGV
-AGGGMAGGGA------
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

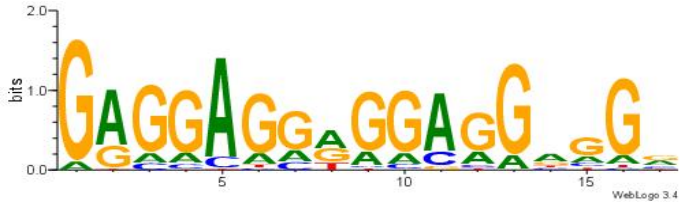

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

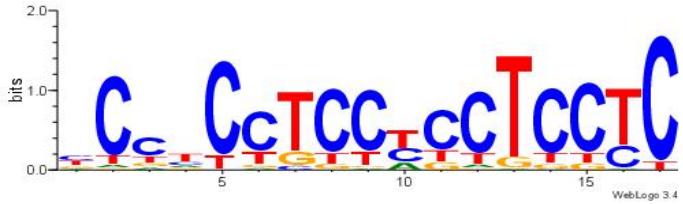

Dataset #:	1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0854413

Alignment:

```
GCGMGCGGGAACCGGGGCT
--------AGGGMAGGGA-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

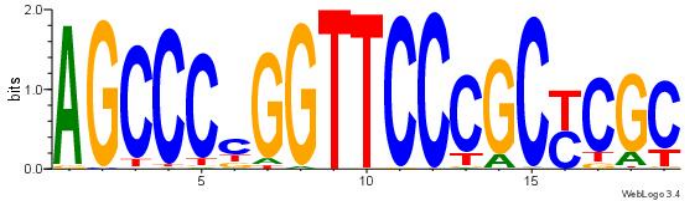

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

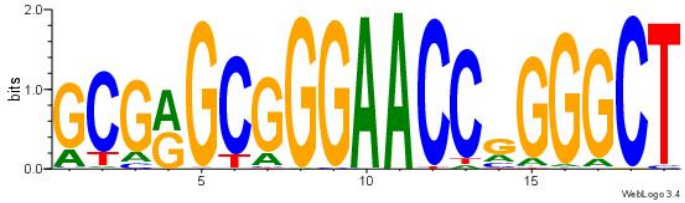

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0860589

Alignment:
TTGAGGAGGCAGTCTG
-AGGGMAGGGA-----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

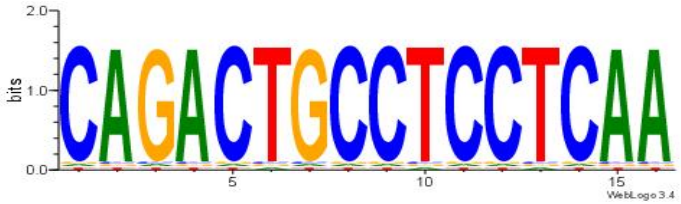

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

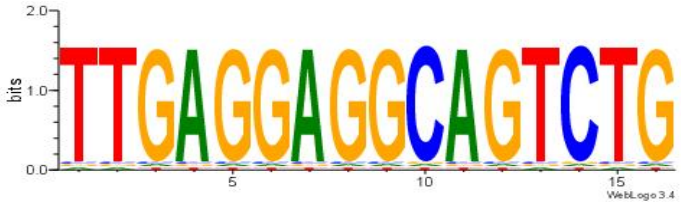

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0860828

Alignment:
TGTGAAGAGACCACCAA
AGGGMAGGGA-------

Original motif Consensus sequence: TGTGAAGAGACCACCAA

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

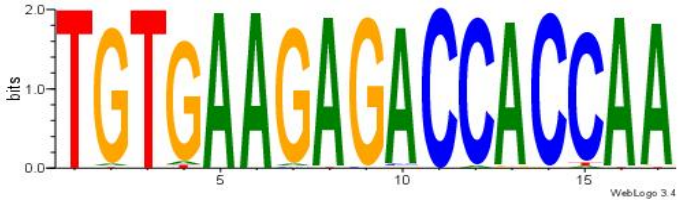

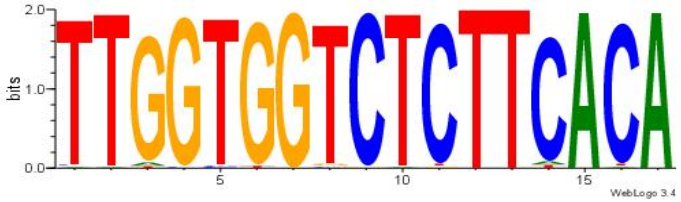

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0864307

Alignment:

```
CCCACGCCCACCCGGAACT
TCCCTRCCCT---------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

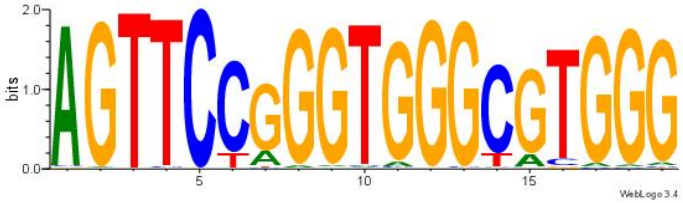

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

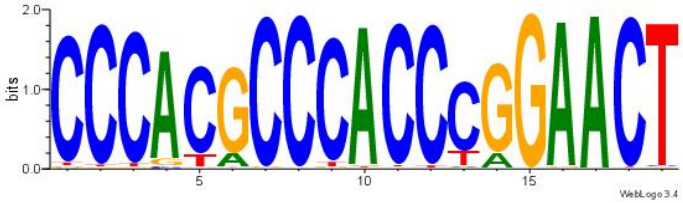

Dataset #:	1

Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0870136

Alignment:

```
CGTCCATCACCCC
--TCCCTRCCCT-
```

Original motif Consensus sequence: CGTCCATCACCCC

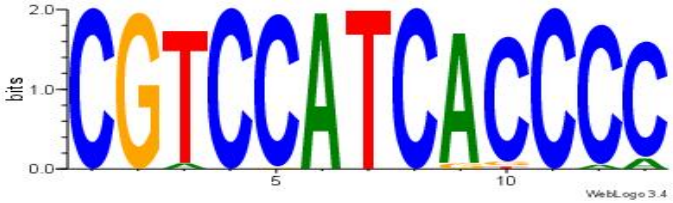

Reverse complement motif Consensus sequence: GGGGTGATGGACG

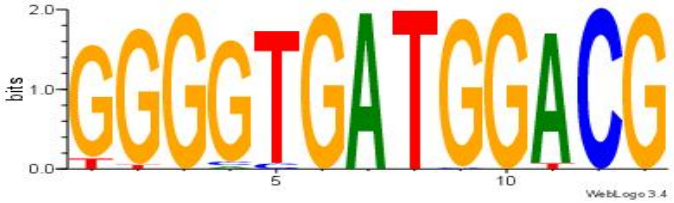

Dataset #:	1
Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0873141

Alignment:
ATAGAGGAGGACC
--AGGGMAGGGA-

Original motif Consensus sequence: ATAGAGGAGGACC

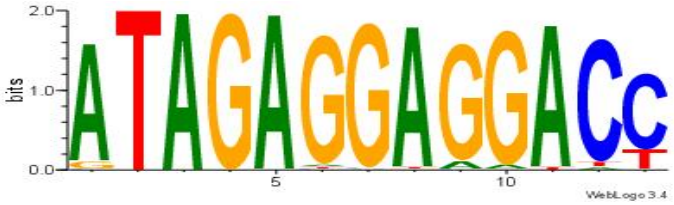

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

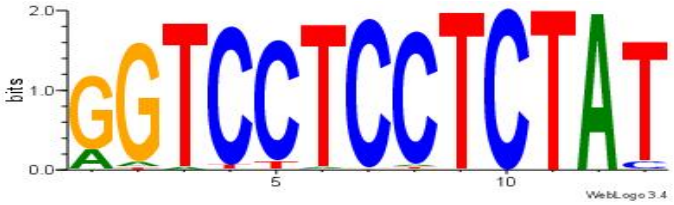

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0881024

Alignment:
AGAAAGGCATGTGAAAA
----AGGGMAGGGA---

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

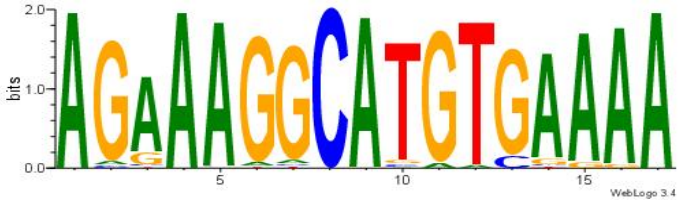

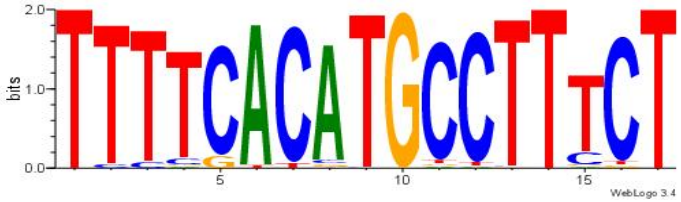

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0881505

Alignment:

```
CACCTCCCAGACMGGGT
----TCCCTRCCCT---
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

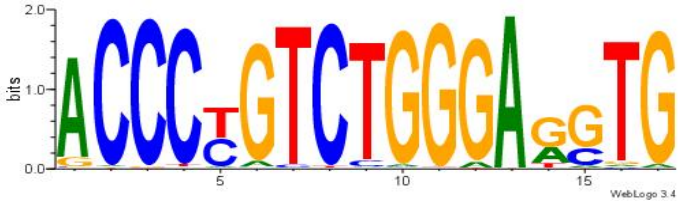

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

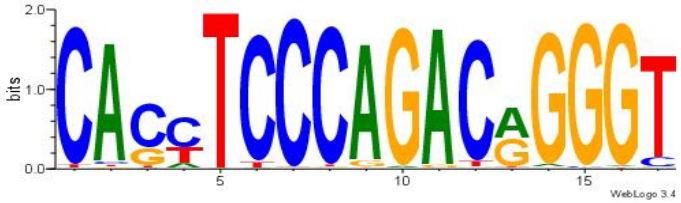

Dataset #: 1

Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0891407

Alignment:

```
GCTTCTGGTGAGGGC
-----AGGGMAGGGA
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

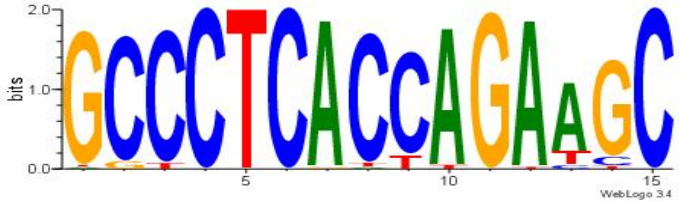

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

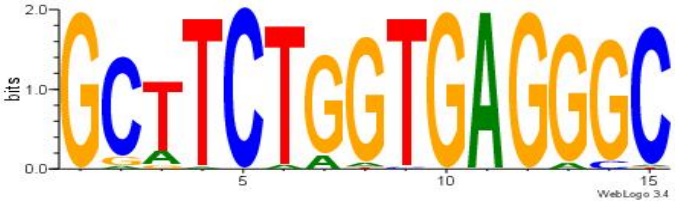

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0894863

Alignment:
GGCCMGCAGGGCKGGC
----AGGGMAGGGA--

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

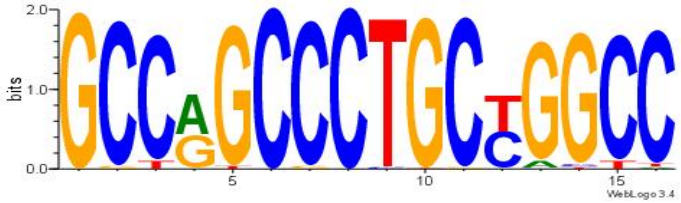

Reverse complement motif Consensus sequence:
GGCCMGCAGGGCKGGC

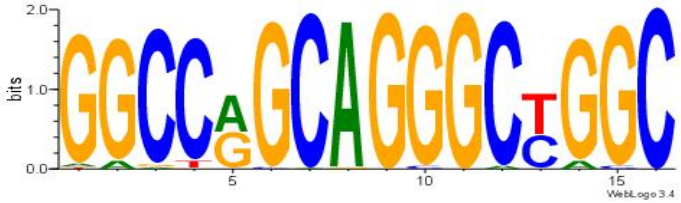

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0896272

Alignment:
CGGCGCTGMGCTCGATTTCT
--TCCCTRCCCT--------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

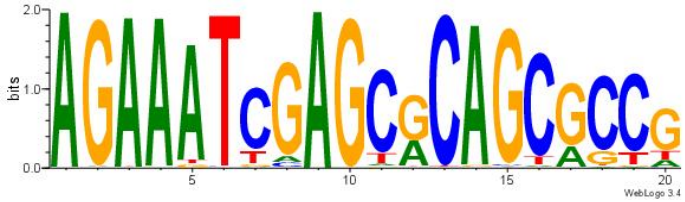

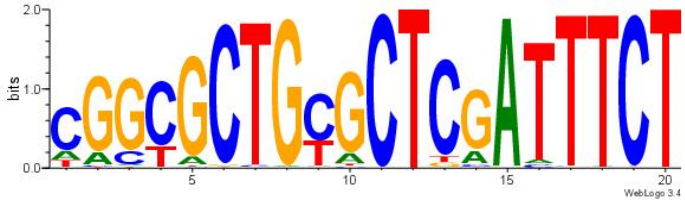

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0900039

Alignment:

```
TCCAAATGGGAGAAATTGGC
-----AGGGMAGGGA-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

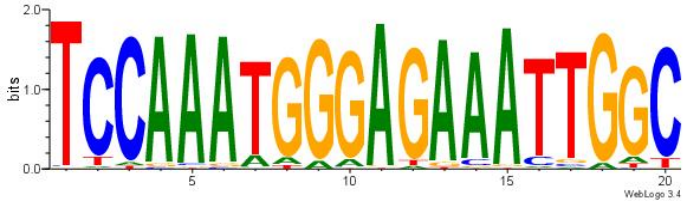

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

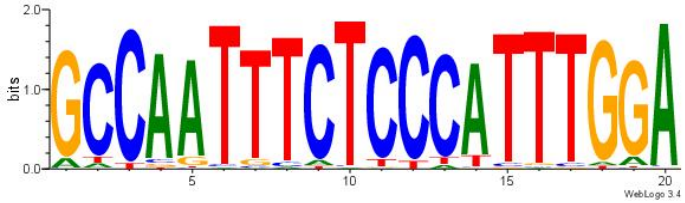

Dataset #: 1

Motif ID:	103
Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0914776

Alignment:

```
AAGTGAAATAA
-AGGGMAGGGA
```

Original motif Consensus sequence: AAGTGAAATAA

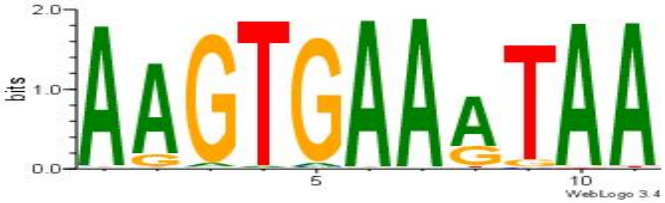

Reverse complement motif Consensus sequence: TTATTTCACTT

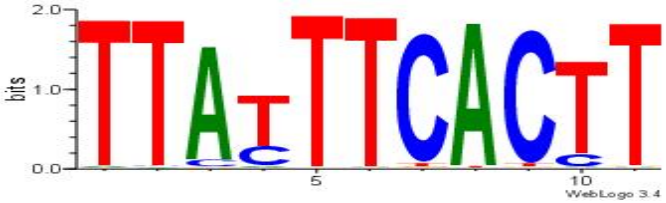

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0917777

Alignment:
CGAGCCTCCCCGAYGAGCGC
--------TCCCTRCCCT--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

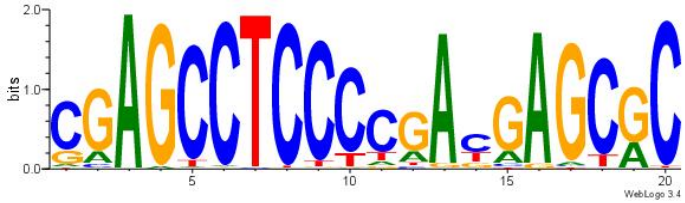

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

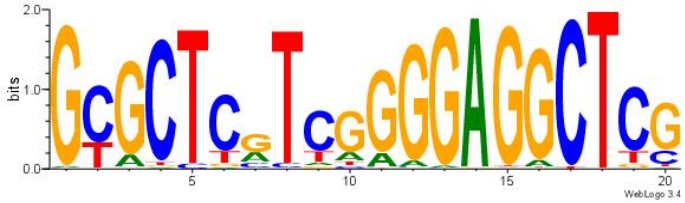

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0918256

Alignment:
TACACCCTCCGCAGCC
---TCCCTRCCCT---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

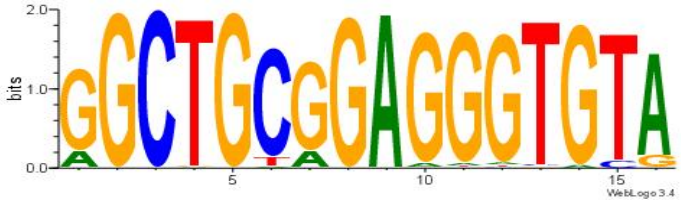

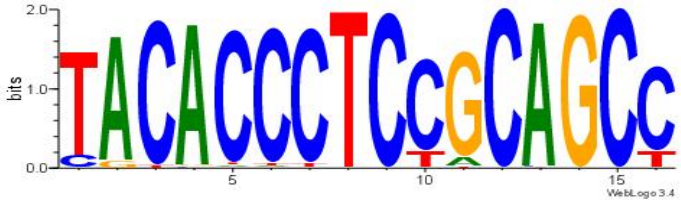

Dataset #:	1
Motif ID:	50
Motif name:	Motif 50
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0918713

Alignment:

```
GATGTGAGGGC
-AGGGMAGGGA
```

Original motif Consensus sequence: GATGTGAGGGC

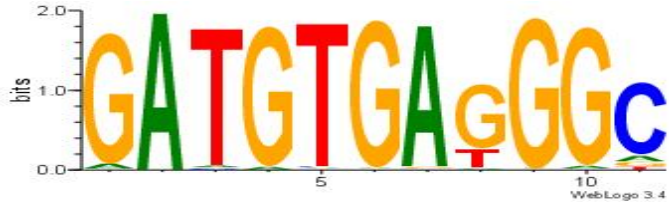

Reverse complement motif Consensus sequence: GCCCTCACATC

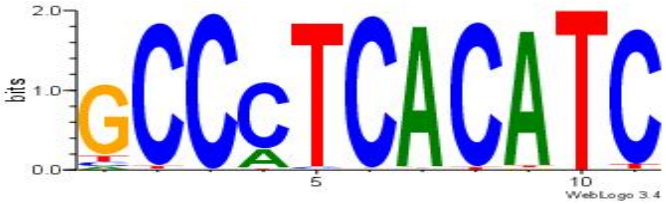

Dataset #: 1 Motif ID: 199 Motif name: Motif 199

Original motif Consensus sequence: ACAGCTGGCACC

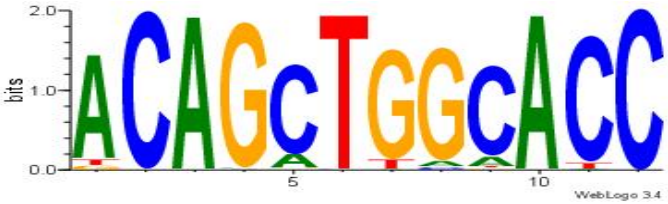

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

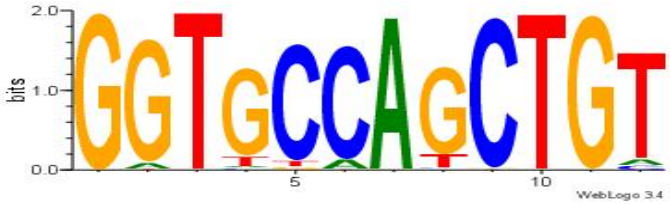

Best Matches for Motif ID 199 (Highest to Lowest)

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0585218

Alignment:

```
ACATCTGYMMCC
ACAGCTGGCACC
```

Original motif Consensus sequence: ACATCTGYMMCC

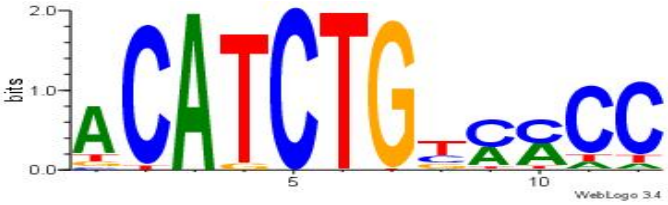

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0698583

Alignment:

```
BCVTCTGTCACCCC
--ACAGCTGGCACC
```

Original motif Consensus sequence: GGGGTGACAGABGB

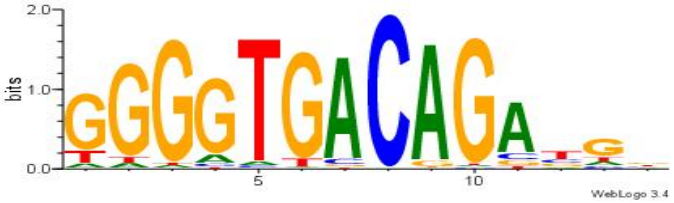

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

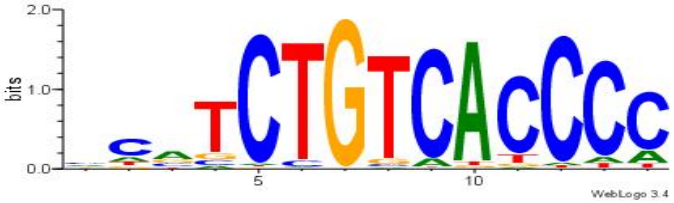

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12

Similarity score: 0.0749537

Alignment:
GGAGCCGGCTCCCTCAGCTT
--------ACAGCTGGCACC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

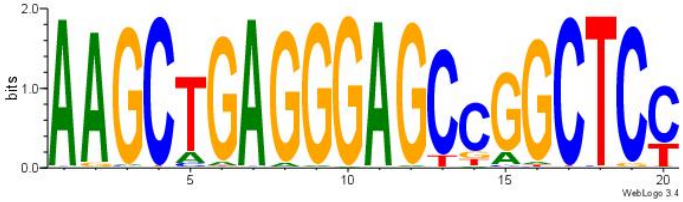

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

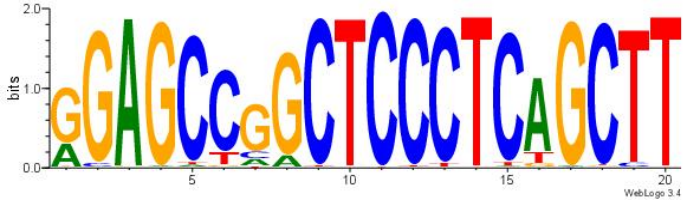

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0751946

Alignment:
GACATGAGCTGGCGCTTG
----ACAGCTGGCACC--

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

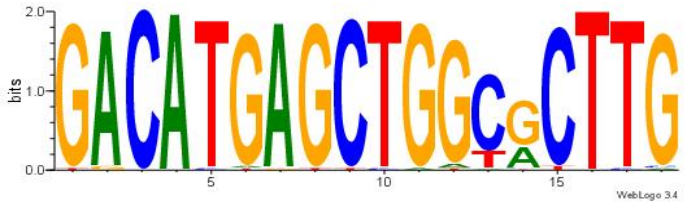

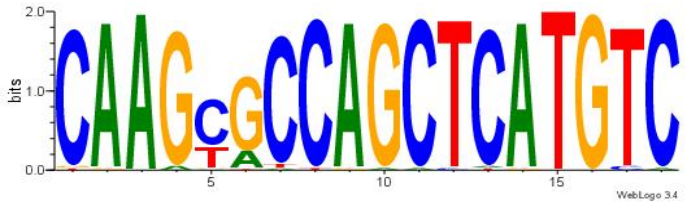

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.075898

Alignment:

```
CCCTGCTAGAACCTCCAA
-ACAGCTGGCACC-----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

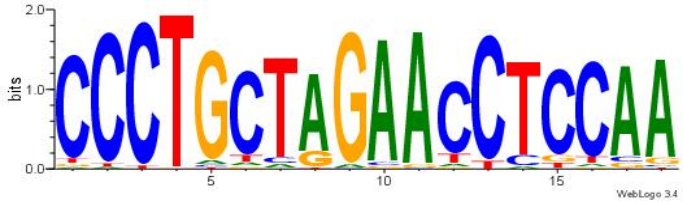

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

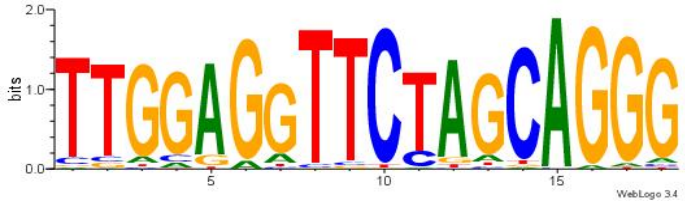

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0785566

Alignment:

```
AGATGCCAGCCAGAGCTCT
-GGTGCCAGCTGT------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

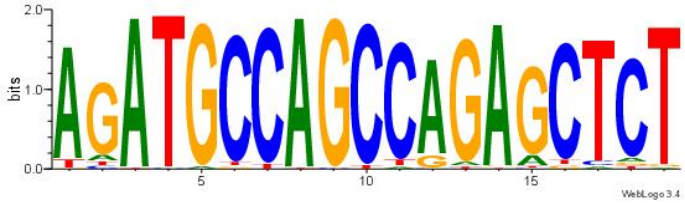

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

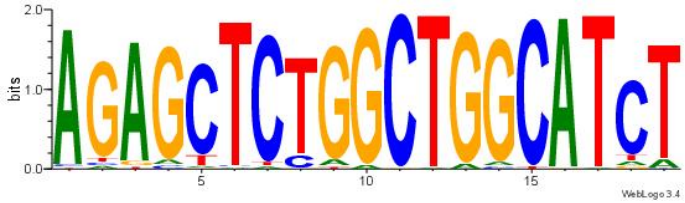

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0788135

Alignment:
AGCCCCGGTTCCCGCYCGC
-GGTGCCAGCTGT------

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

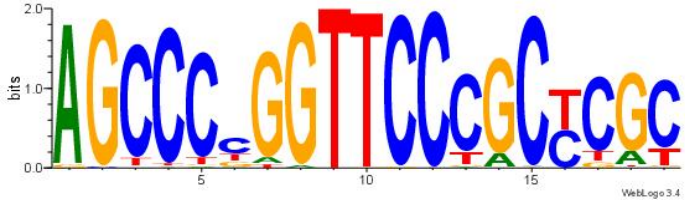

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

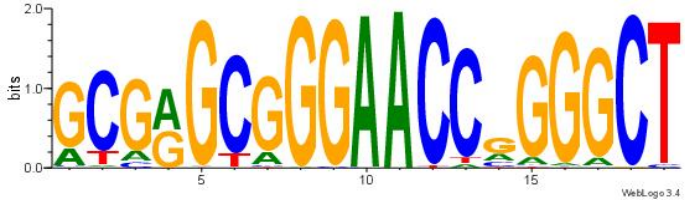

Dataset #: 1
Motif ID: 150
Motif name: Motif 150
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0803557

Alignment:
TGTGCTAGCAAT
GGTGCCAGCTGT

Original motif Consensus sequence: ATTGCTAGCACA

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

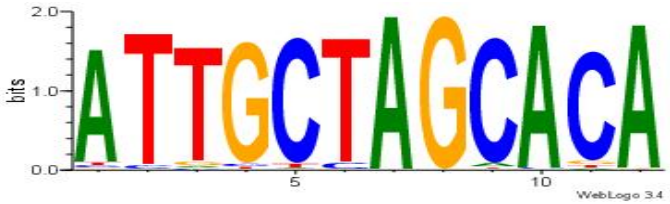

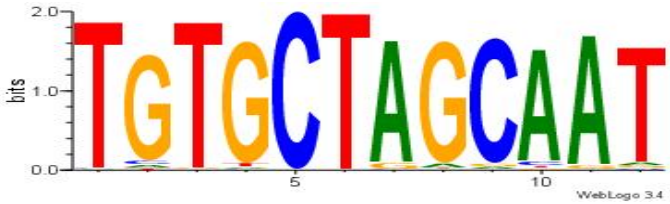

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.082714

Alignment:

```
GGTTCAAGCGATT
GGTGCCAGCTGT-
```

Original motif Consensus sequence: AATCGCTTGAACC

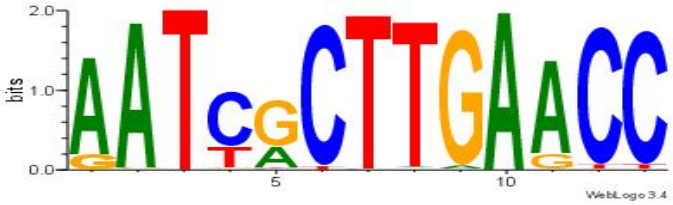

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

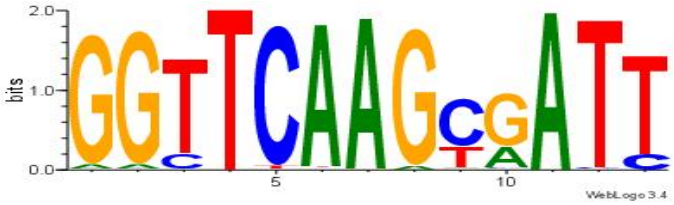

Dataset #:	1
Motif ID:	69

Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0844246

Alignment:

```
GTAGCTGGGAYTACA
ACAGCTGGCACC---
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

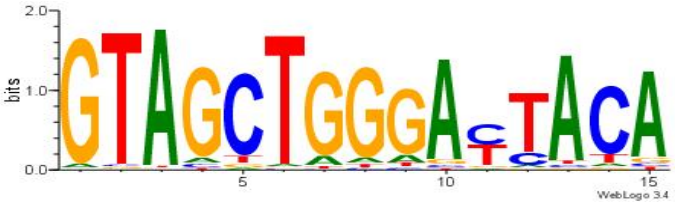

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

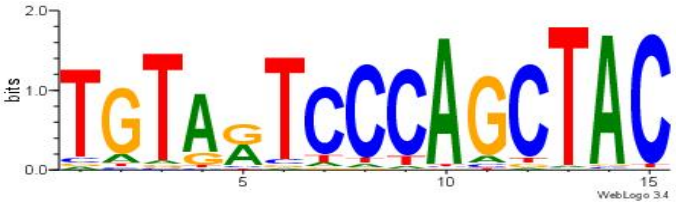

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.085127

Alignment:
AAAGCTGGAGCTATTATCTA
ACAGCTGGCACC--------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

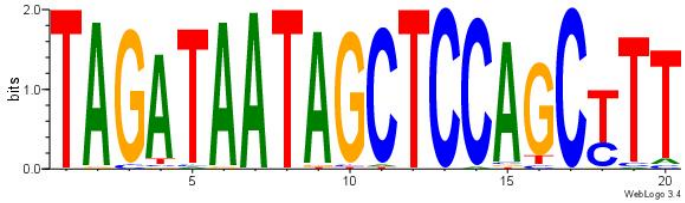

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

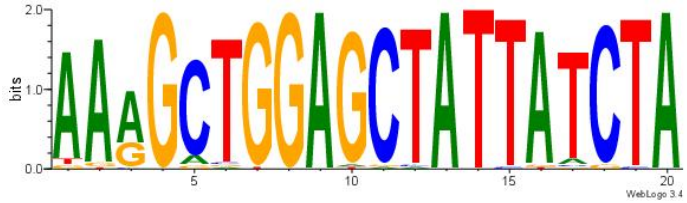

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0852021

Alignment:
GGGTGCAGGMGGGCTGAGT
-GGTGCCAGCTGT------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

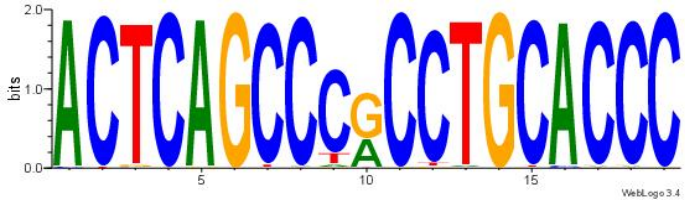

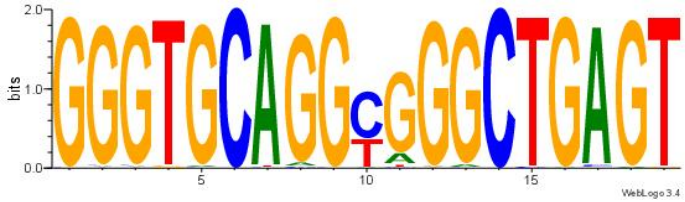

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0854032

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----GGTGCCAGCTGT--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

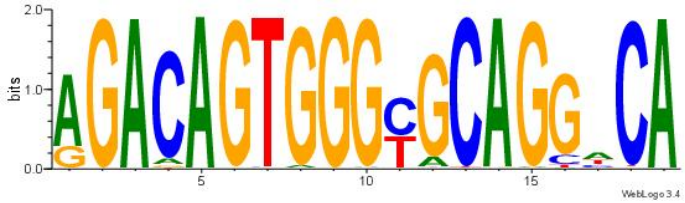

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

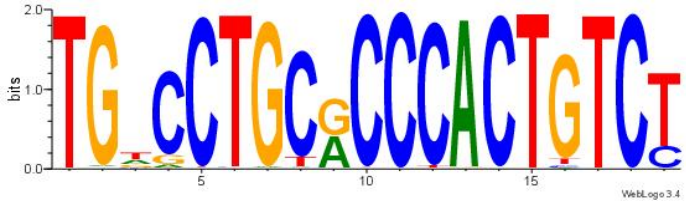

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0884068

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-------GGTGCCAGCTGT-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

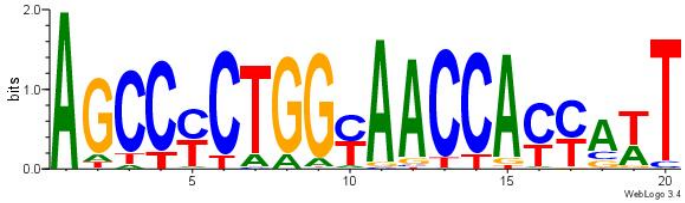

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

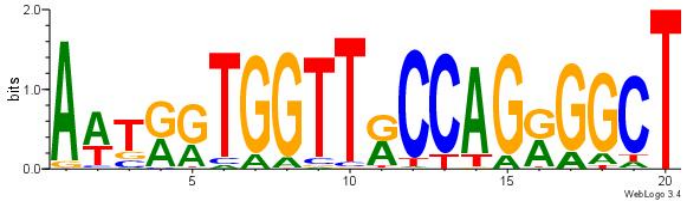

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0900723

Alignment:
GTAGACKGGAGCTGTTCCT
---GGTGCCAGCTGT----

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

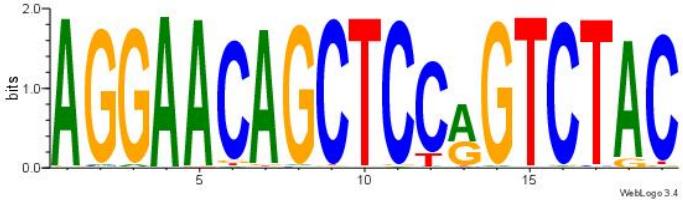

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

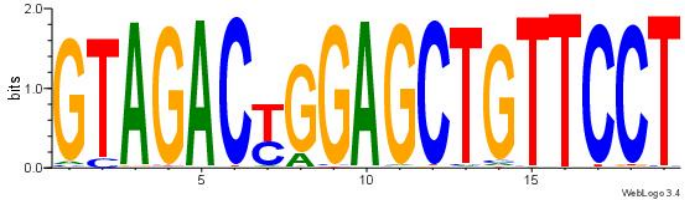

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0902123

Alignment:
AACAACASACACTGGGGCCT
-------ACAGCTGGCACC-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

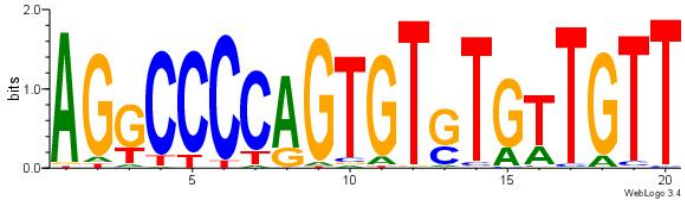

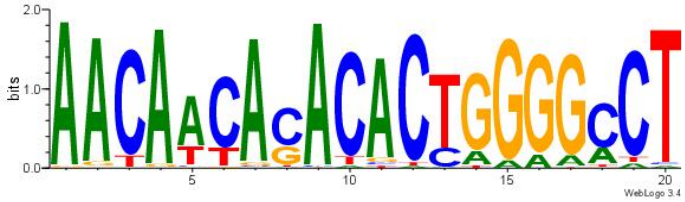

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0907392

Alignment:

```
CATTTCCAWCTGAGGTAC
-----GGTGCCAGCTGT-
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

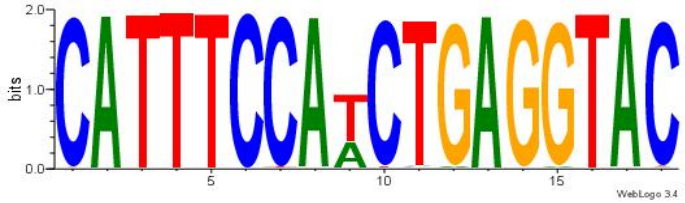

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

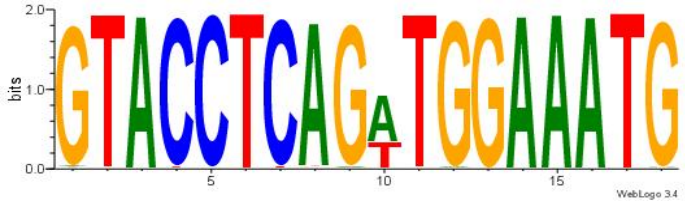

Dataset #: 1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.09311

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-------ACAGCTGGCACC
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

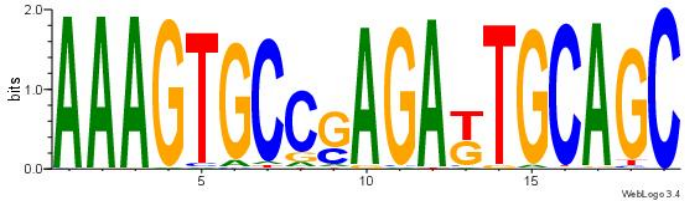

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

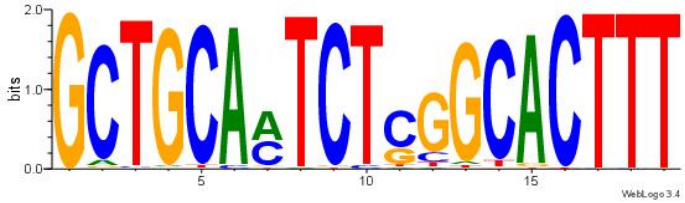

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.0937984

Alignment:
GGGCTCCCACAGTGCAGCGG
-GGTGCCAGCTGT-------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

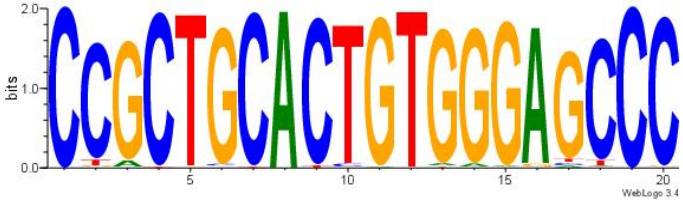

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

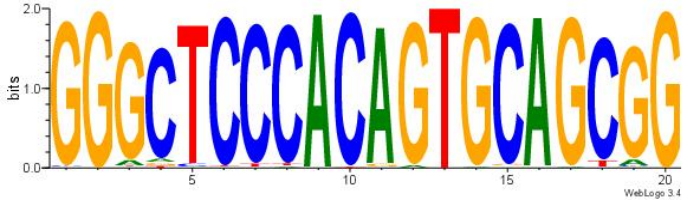

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0944727

Alignment:
GMTTAGCTCCCACTTA
--ACAGCTGGCACC--

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

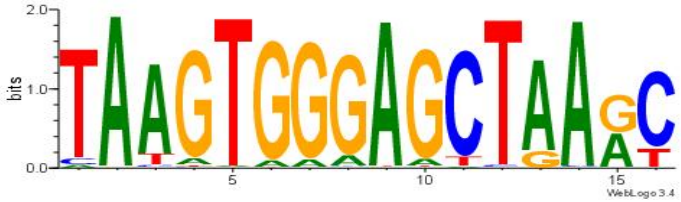

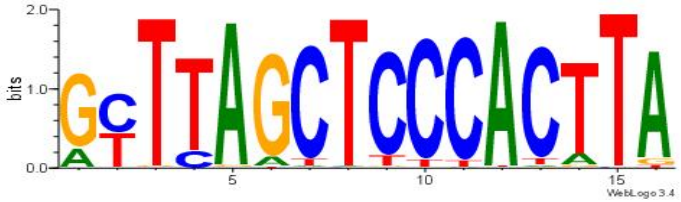

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0950787

Alignment:

```
AGCTCCCAGCGTGAGCGACG
-------GGTGCCAGCTGT-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

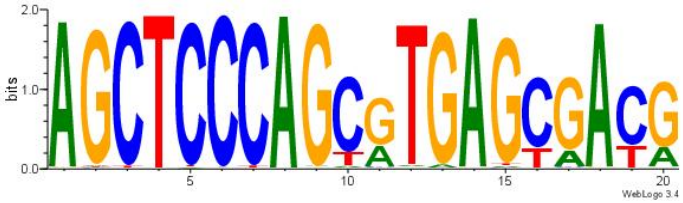

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

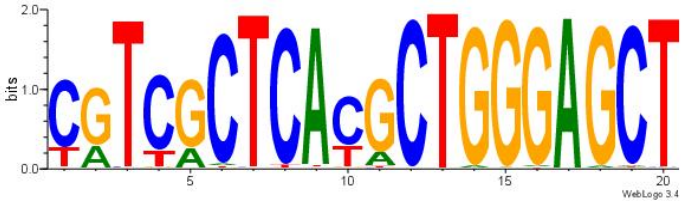

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0953975

Alignment:

```
CCCACGCCCACCCGGAACT
ACAGCTGGCACC-------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

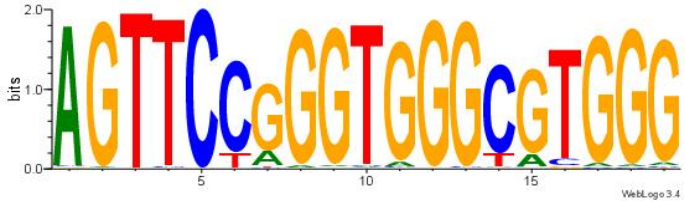

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

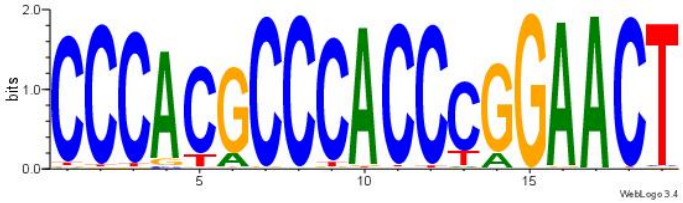

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12

Similarity score: 0.0954207

Alignment:
KCCGGGCCTTAGCTGCCTTC
ACAGCTGGCACC--------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

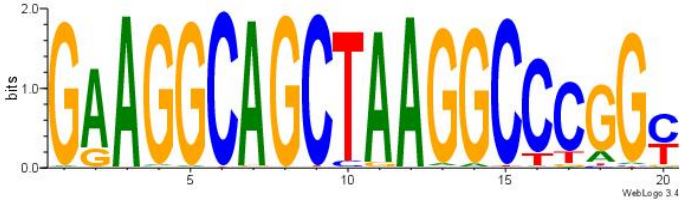

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

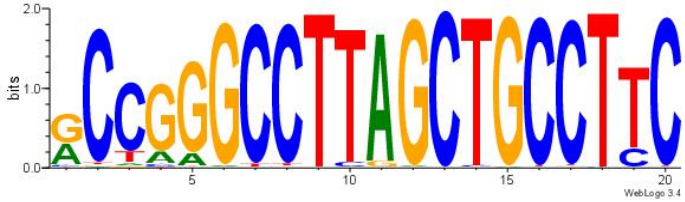

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 12
Similarity score: 0.0958892

Alignment:
CAAGTTGACACATAAAATTA
ACAGCTGGCACC--------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

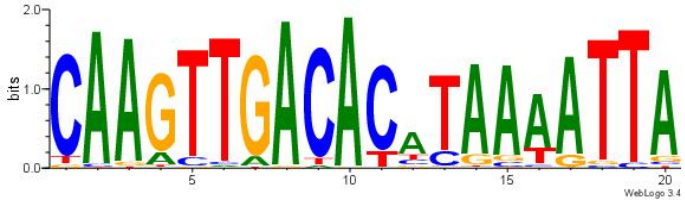

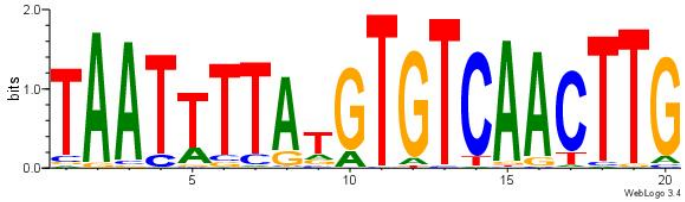

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0959349

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-----ACAGCTGGCACC---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

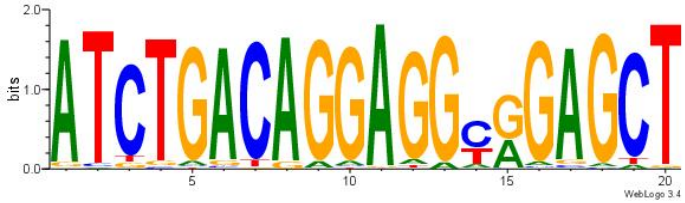

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

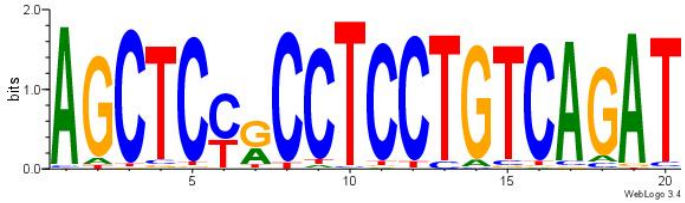

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0959931

Alignment:

```
GAATCCTGGGACAGCCTGT
GGTGCCAGCTGT-------
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

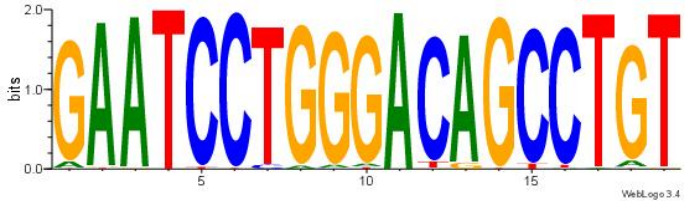

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

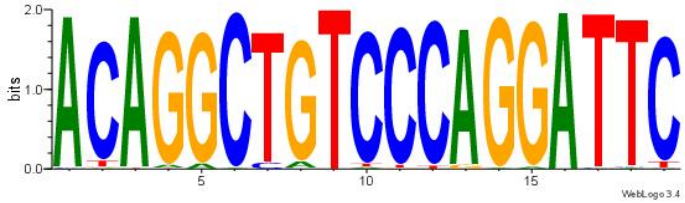

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.0960363

Alignment:
CCCGAAGCTGCRYRCTCGGT
--GGTGCCAGCTGT------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

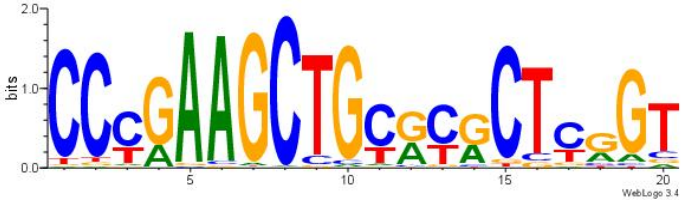

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

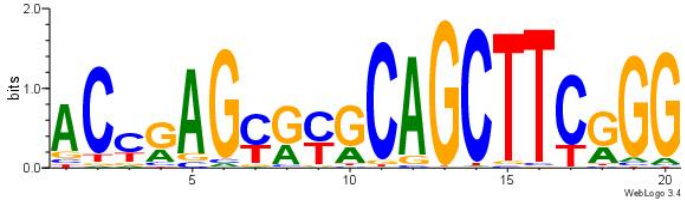

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.096122

Alignment:
GGCATCACGGATCCTACCAA
------ACAGCTGGCACC--

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

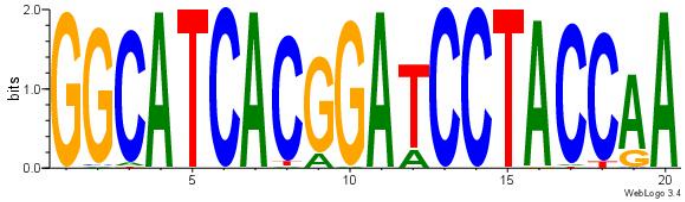

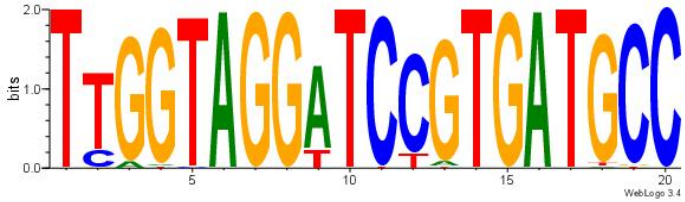

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0964857

Alignment:

```
CTTGGGTGGTCGATGGGAC
----GGTGCCAGCTGT---
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

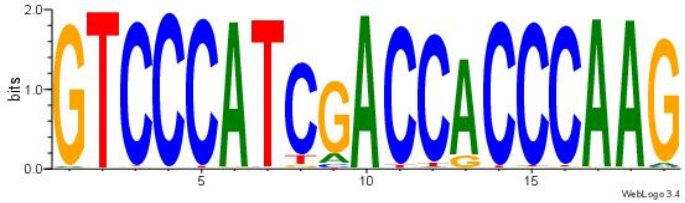

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

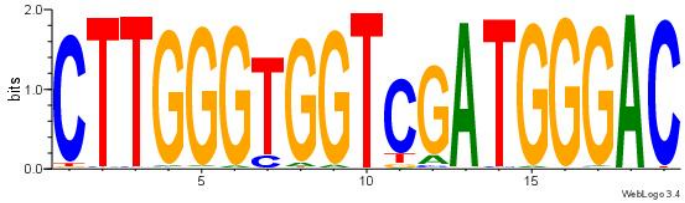

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.09682

Alignment:

```
ATGATCCAGCAATYCCACTH
-------GGTGCCAGCTGT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

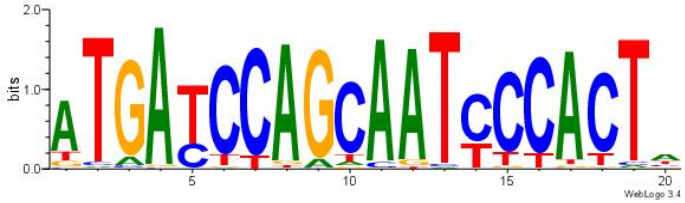

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

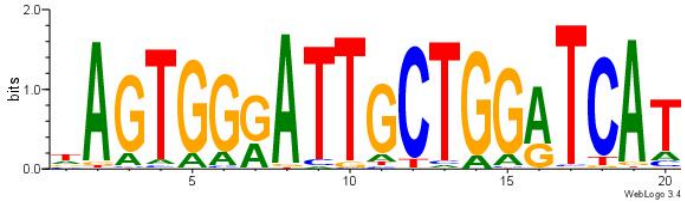

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0973164

Alignment:
GACTGGCAGGCAGCTCCACC
---GGTGCCAGCTGT-----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

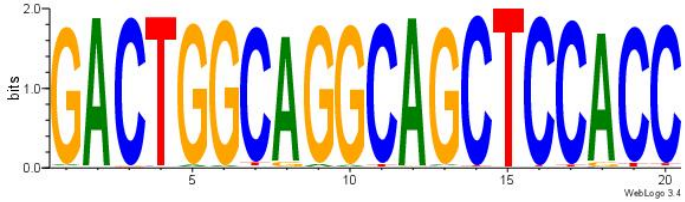

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

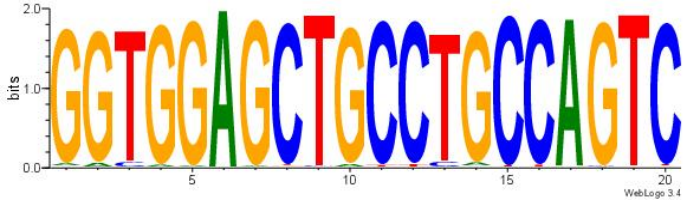

Dataset #: 1
Motif ID: 325
Motif name: Motif 325
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0973664

Alignment:
TATTTACAGCTGCT
-GGTGCCAGCTGT-

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

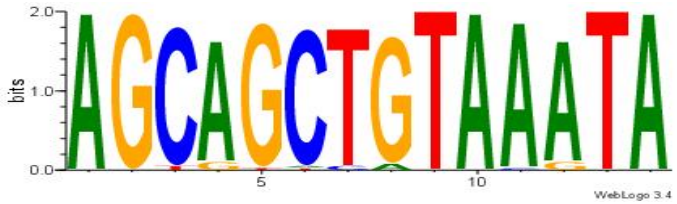

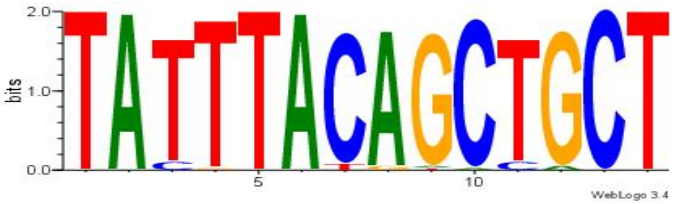

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0974281

Alignment:

```
AGGACTGAGGGTGCCYRGGG
---ACAGCTGGCACC-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

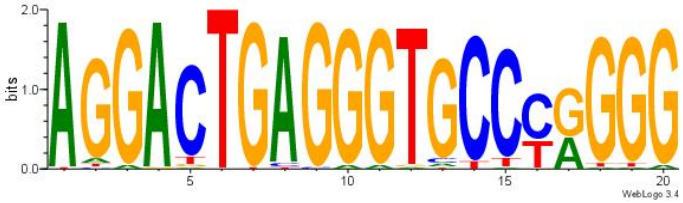

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

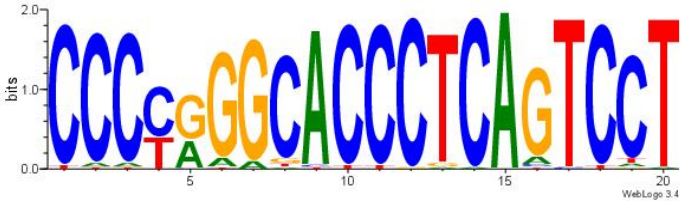

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0981889

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
-ACAGCTGGCACC-------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

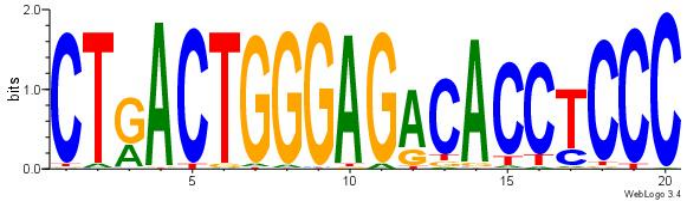

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

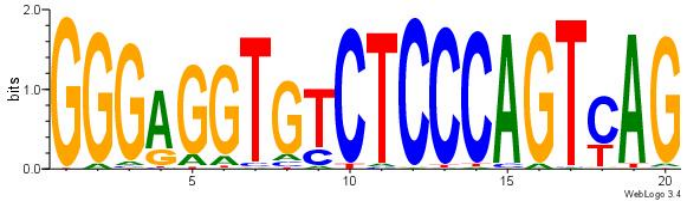

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0987564

Alignment:
GGAGCCCACGGAGG
GGTGCCAGCTGT--

Original motif Consensus sequence: CCTCCGTGGGCTCC

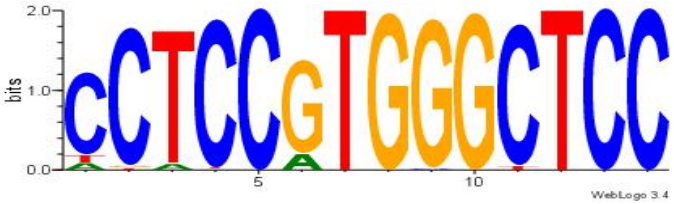

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

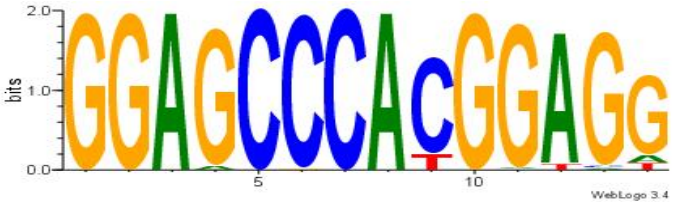

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0989791

Alignment:
CGCCCGGCCAGCCGC
GGTGCCAGCTGT---

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

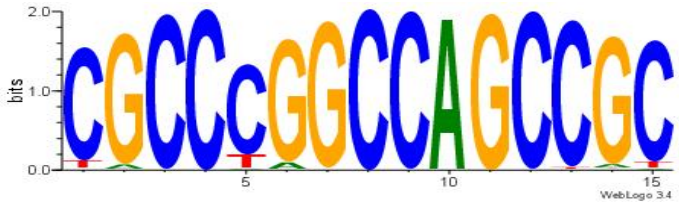

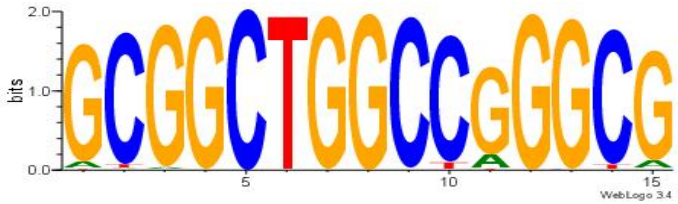

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0990223

Alignment:

```
GGGGGCTGACCCCCCCACC
-ACAGCTGGCACC------
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

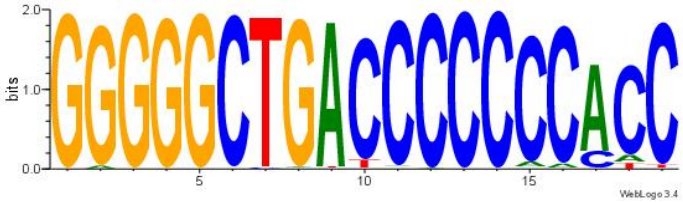

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

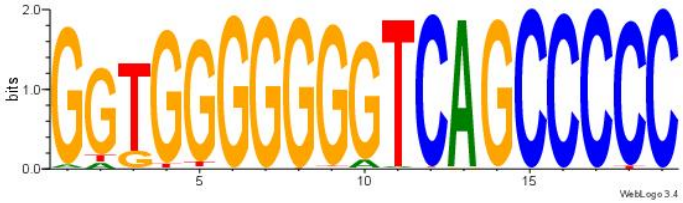

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.100224

Alignment:

```
GGCACTGCTGGGGGACCCAG
-----ACAGCTGGCACC---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

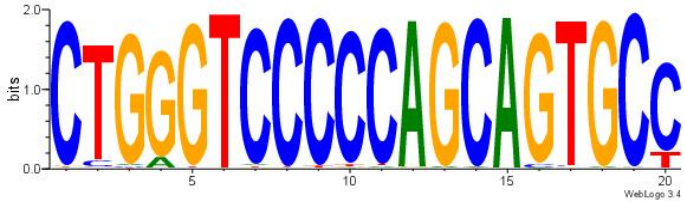

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

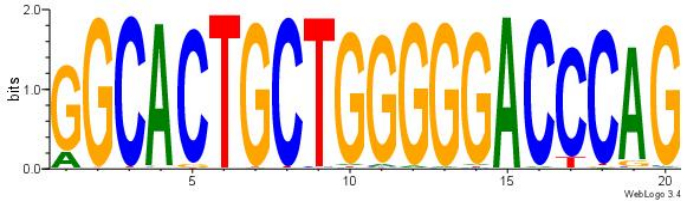

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.100372

Alignment:
GGGASCACATGG
GGTGCCAGCTGT

Original motif Consensus sequence: CCATGTGSTCCC

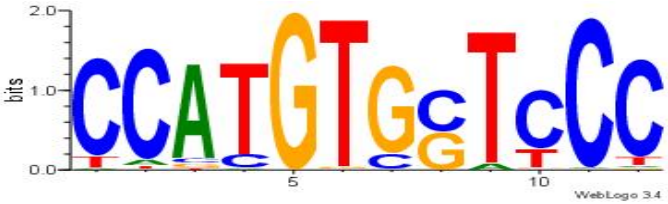

Reverse complement motif Consensus sequence: GGGASCACATGG

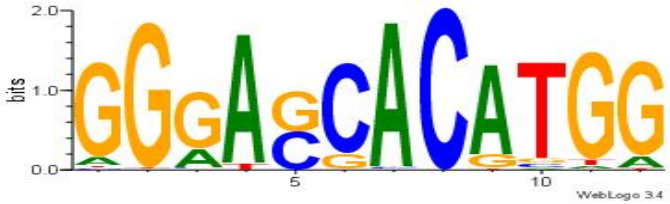

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.100947

Alignment:
CGCGGCGCTTGCGGGCCAGC
---GGTGCCAGCTGT-----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

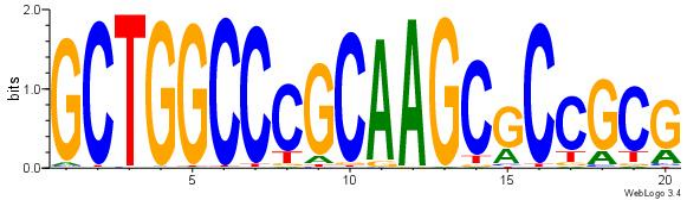

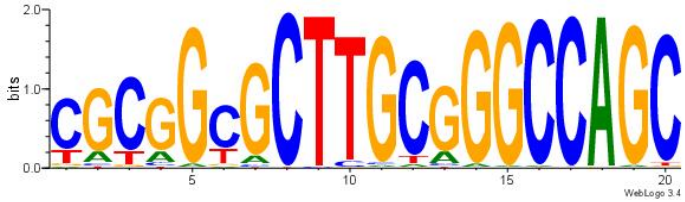

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.101183

Alignment:

```
GACCTGCAGCCCGCCATG
-----GGTGCCAGCTGT-
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

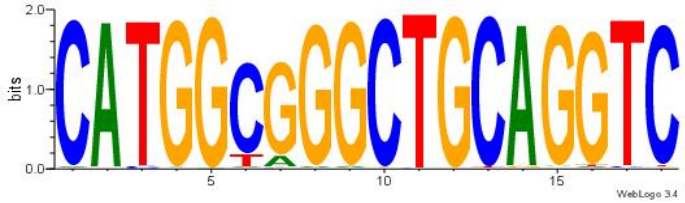

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

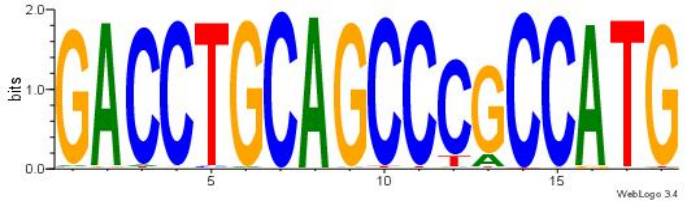

Dataset #:	1

Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.101717

Alignment:

```
CAAGATGGCGGC
ACAGCTGGCACC
```

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

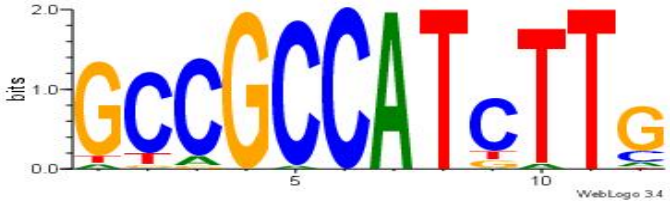

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.103224

Alignment:
ATCRCTTGAGSYCAGGAGKT
-GGTGCCAGCTGT-------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

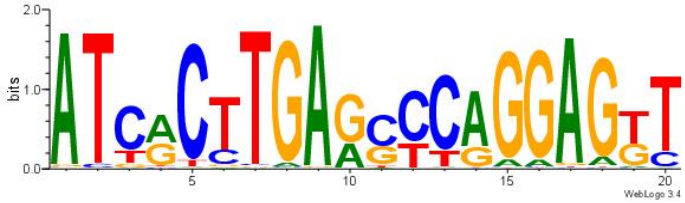

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

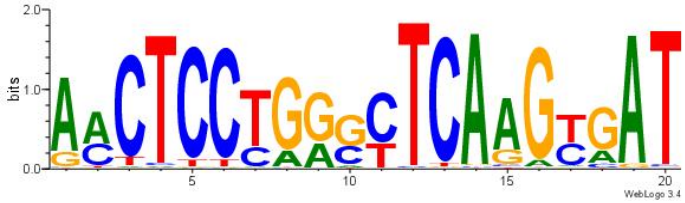

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.103692

Alignment:
CAAASCKGTCATAGGCCAT
-ACAGCTGGCACC------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

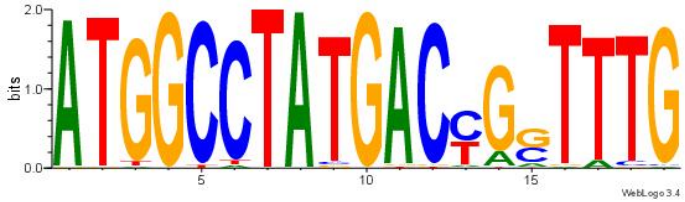

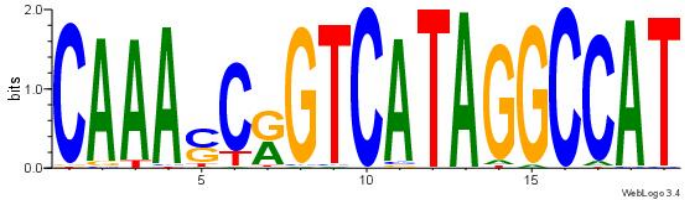

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.103936

Alignment:

```
AACCCTATTGTGAACTGYG
------GGTGCCAGCTGT-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

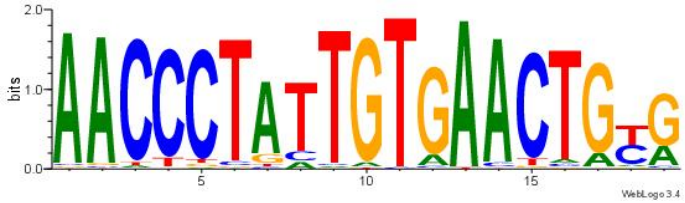

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

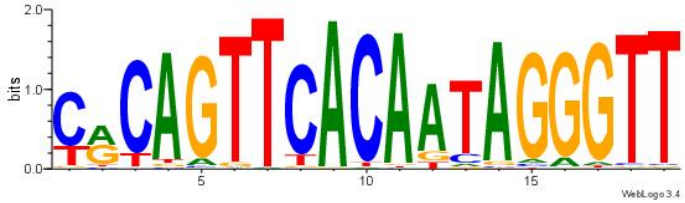

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.104214

Alignment:

```
TTMGTCCCAGAGGGGCACC
--GGTGCCAGCTGT-----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

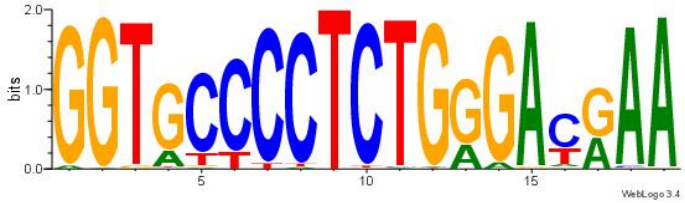

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

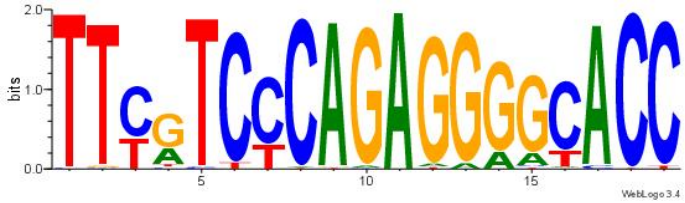

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12

Similarity score: 0.104592

Alignment:
AAGTTCTKGGKTACATGTGC
--------GGTGCCAGCTGT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

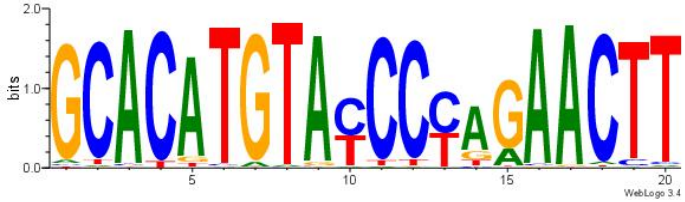

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

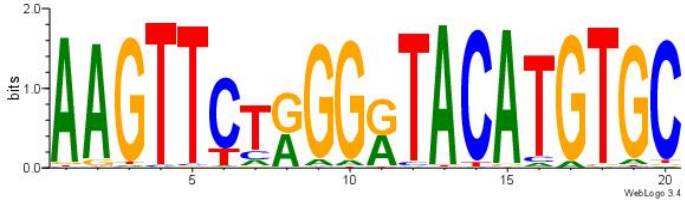

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.10547

Alignment:
CATTTGGGAGCCCATTGA
------GGTGCCAGCTGT

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence:
TCAATGGGCTCCCAAATG

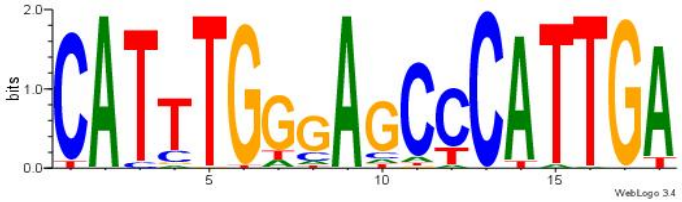

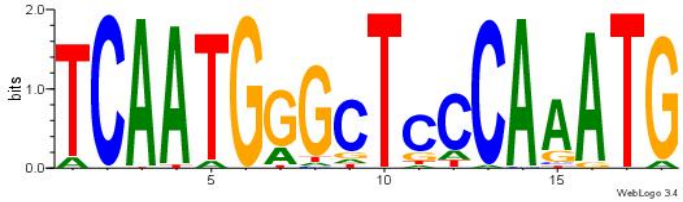

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.105864

Alignment:

```
ACATCMTCTGAAATCTAGG
---ACAGCTGGCACC----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

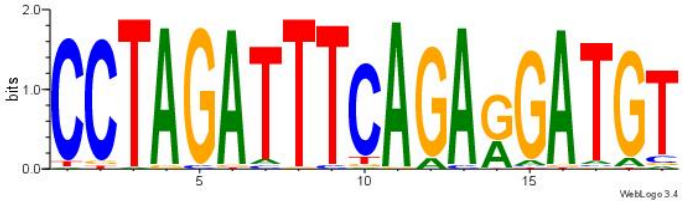

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

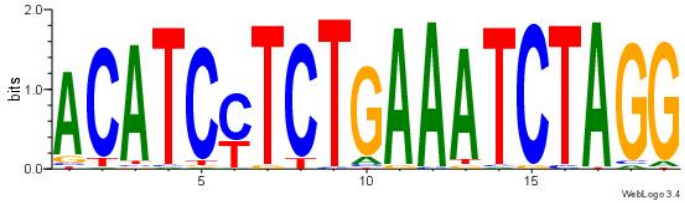

Dataset #:	1

Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.106436

Alignment:

```
GGGGTGAVCAGAT
-GGTGCCAGCTGT
```

Original motif Consensus sequence: GGGGTGAVCAGAT

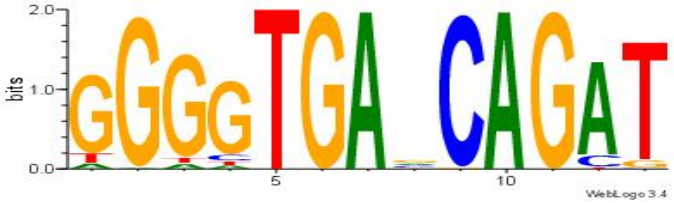

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

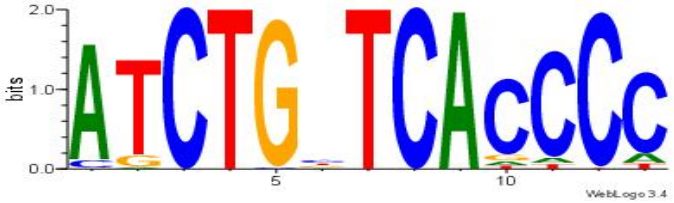

Dataset #: 1 Motif ID: 200 Motif name: Motif 200

Original motif Consensus sequence: ACCCCGTCTGGGA

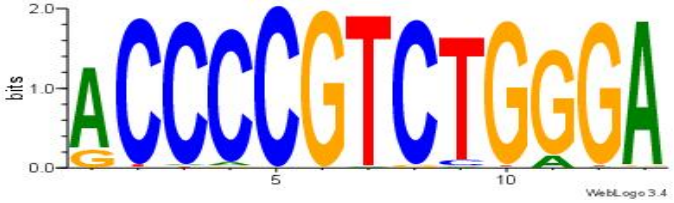

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

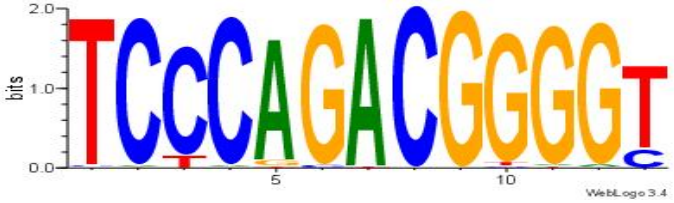

Best Matches for Motif ID 200 (Highest to Lowest)

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0106929

Alignment:

```
ACCCYGTCTGGGAGGTG
ACCCCGTCTGGGA----
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

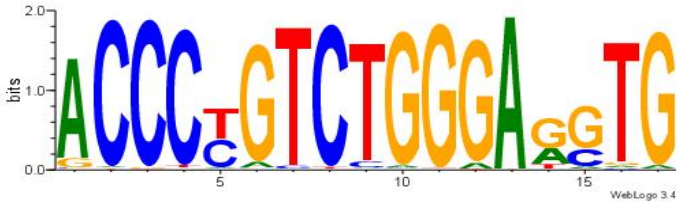

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

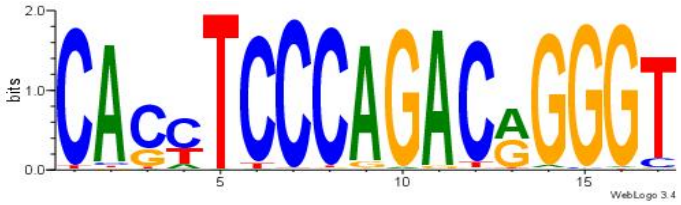

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0207173

Alignment:
CGCCCCGTCTGGGAAGTG
----ACCCCGTCTGGGA-

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

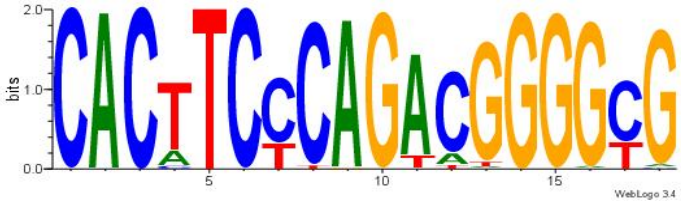

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

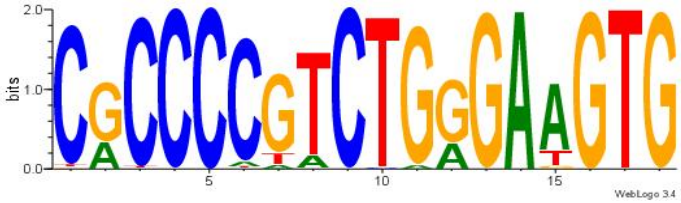

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.040436

Alignment:
GCCKCCCCGTCCGGGAGGGA
----ACCCCGTCTGGGA---

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

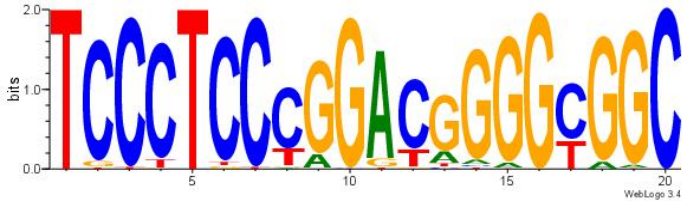

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

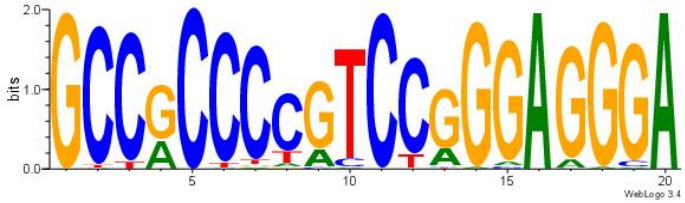

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0497149

Alignment:

```
TGCCCAGTCTGGAAAGTG
-ACCCCGTCTGGGA----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

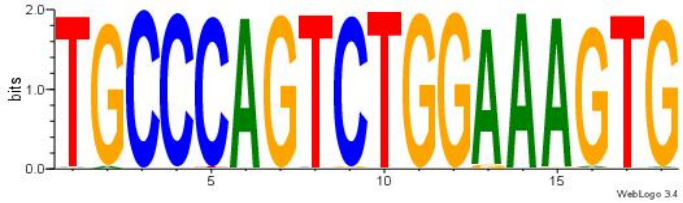

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

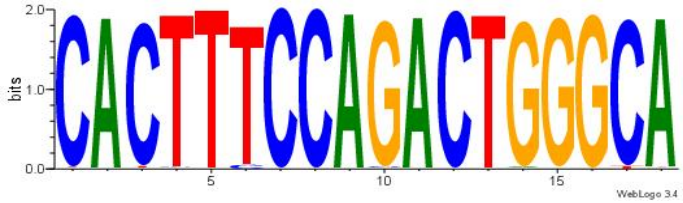

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0528184

Alignment:

```
CGCCCATCGTCTGGGATGT
---ACCCCGTCTGGGA---
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

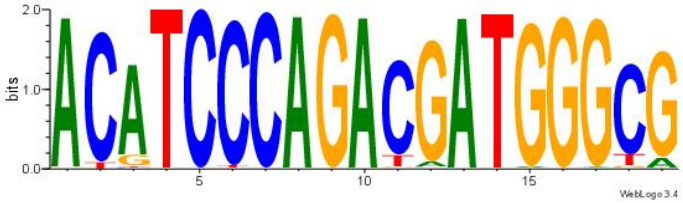

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

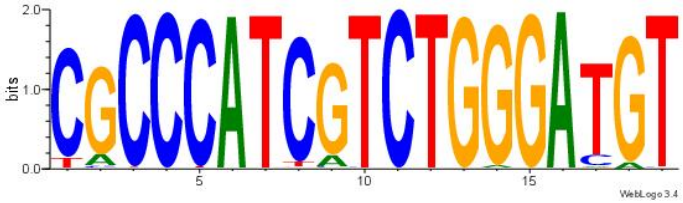

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 13
Similarity score: 0.0603729

Alignment:
GGTGCCCCTCTGGGACRAA
--ACCCCGTCTGGGA----

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

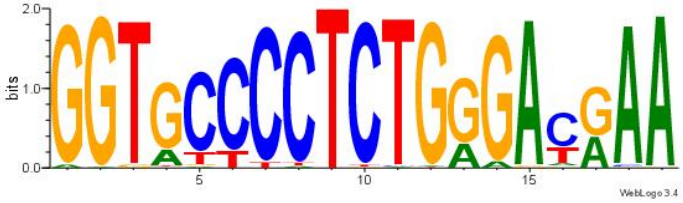

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

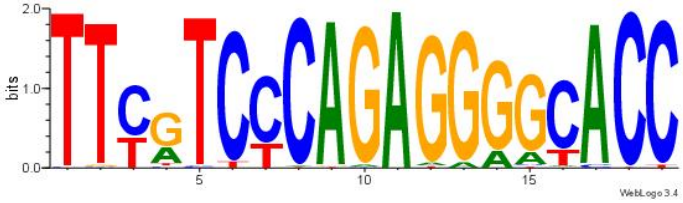

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0731245

Alignment:
AAATTACCCAGTCTCAGGTA
-----ACCCCGTCTGGGA--

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

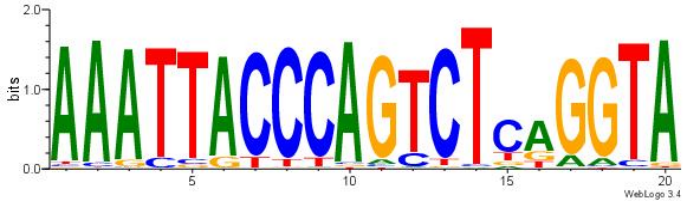

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

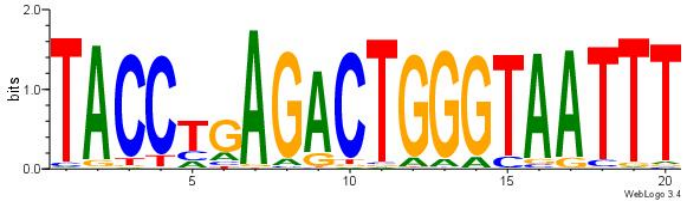

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0830473

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-TCCCAGACGGGGT------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

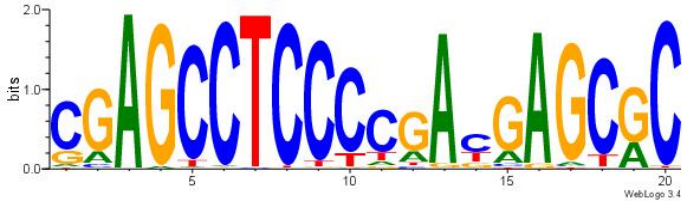

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

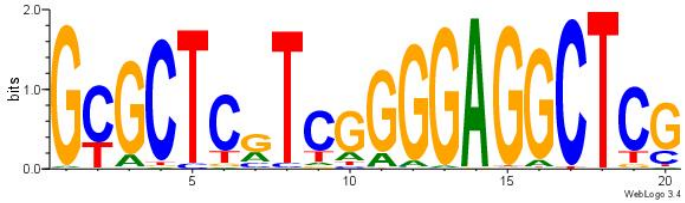

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0842505

Alignment:

```
AGCTCCCAGCGTGAGCGACG
----TCCCAGACGGGGT---
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

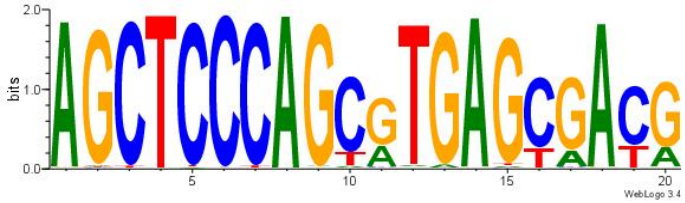

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

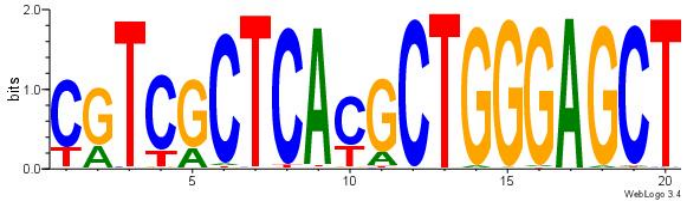

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 13
Similarity score: 0.0863009

Alignment:
CCCCGGGCAGTGAGGG
---ACCCCGTCTGGGA

Original motif Consensus sequence: CCCTCACTGCCCGGGG

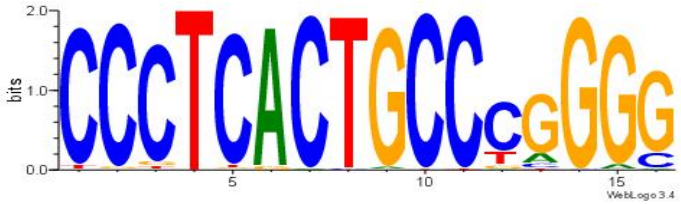

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

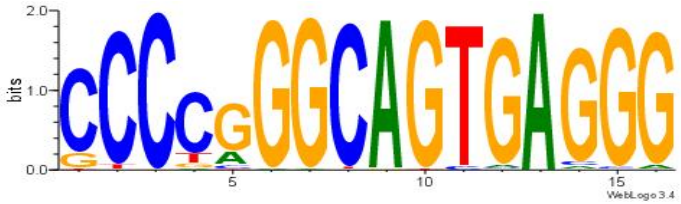

Dataset #: 1
Motif ID: 286
Motif name: Motif 286
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0865323

Alignment:
CTCCCAGCCGCCTG
-TCCCAGACGGGGT

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

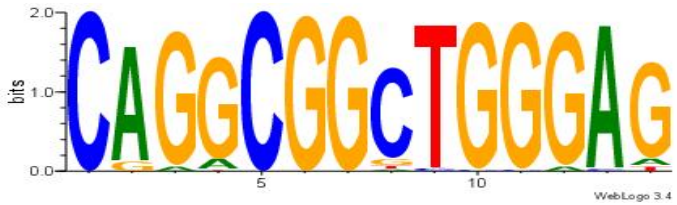

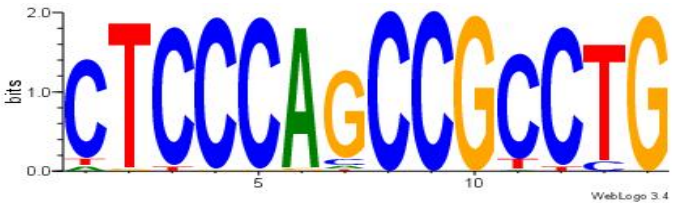

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0899067

Alignment:

```
AACAACASACACTGGGGCCT
----TCCCAGACGGGGT---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

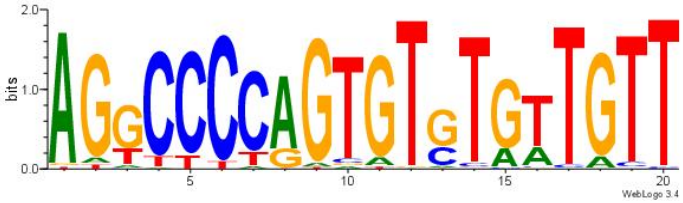

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

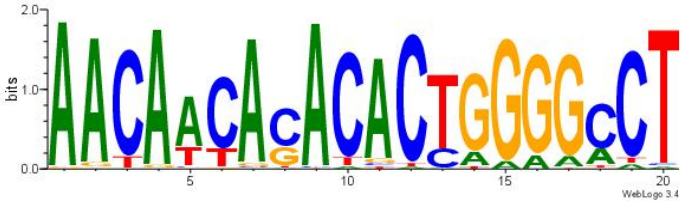

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0903518

Alignment:

```
AGAGCTCTGGCTGGCATCT
---ACCCCGTCTGGGA---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

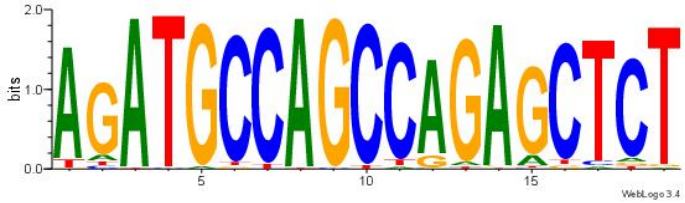

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

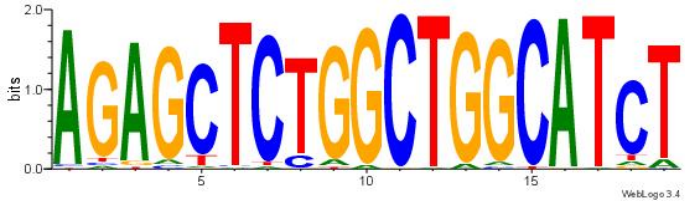

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.0928022

Alignment:
AAGCTCGAACTGGGTGGAGC
--TCCCAGACGGGGT-----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

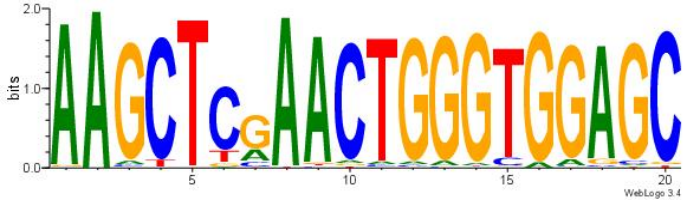

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

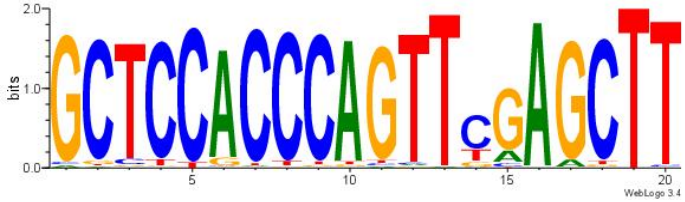

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.0933961

Alignment:
CMCAGTTCACAATAGGGTT
------TCCCAGACGGGGT

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

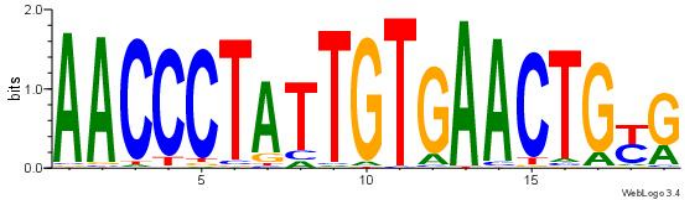

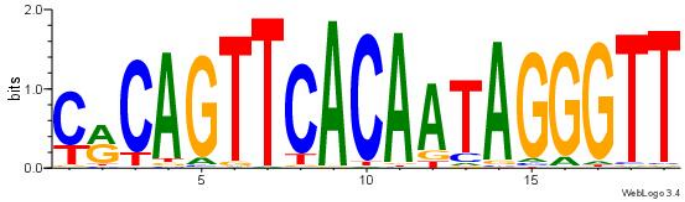

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0937002

Alignment:

```
CAATGATAGACTGGAT
---TCCCAGACGGGGT
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

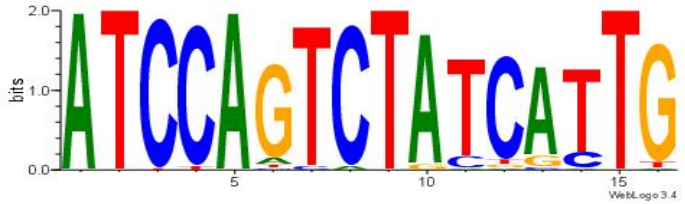

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0939295

Alignment:

```
GTACCTCAGWTGGAAATG
---ACCCCGTCTGGGA--
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

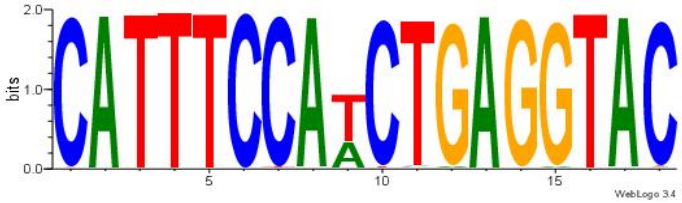

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

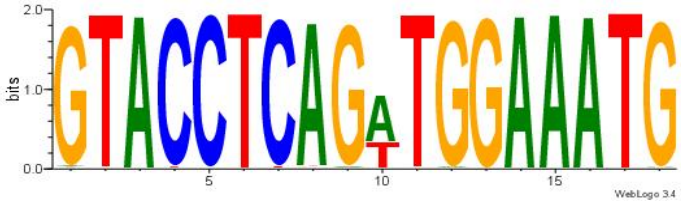

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0947571

Alignment:
AGTTCCGGGTGGGCGTGGG
---TCCCAGACGGGGT---

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

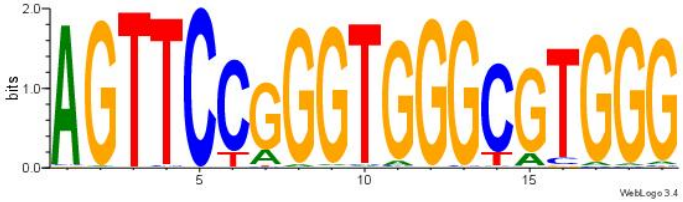

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

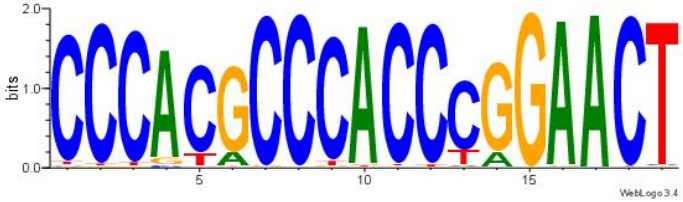

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0966469

Alignment:
ACATCMTCTGAAATCTAGG
ACCCCGTCTGGGA------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

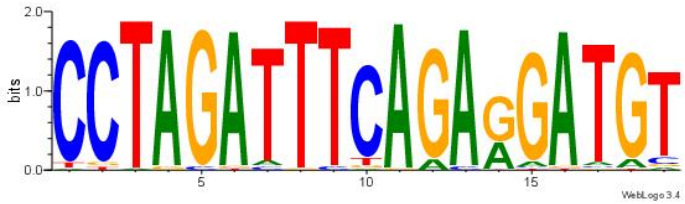

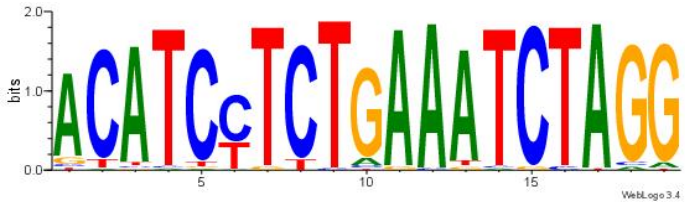

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0976903

Alignment:

```
GAATACCTCCTGAAGGACCT
---ACCCCGTCTGGGA----
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

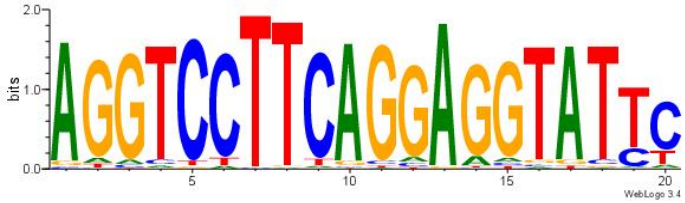

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

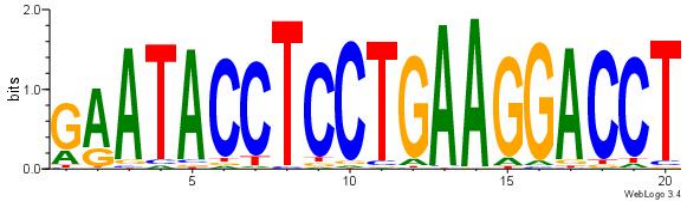

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0984261

Alignment:

```
GGTTCATCTCACTAGGGAGT
-TCCCAGACGGGGT------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

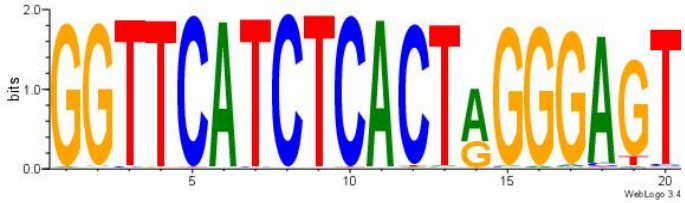

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

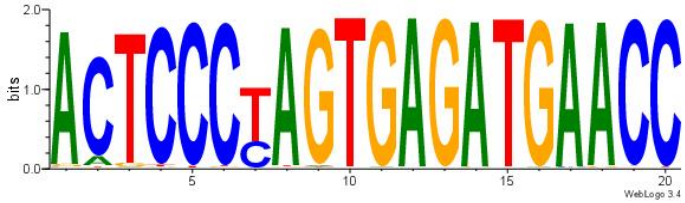

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.100083

Alignment:
GTGCCAGGCACTGTKCTARG
------TCCCAGACGGGGT-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

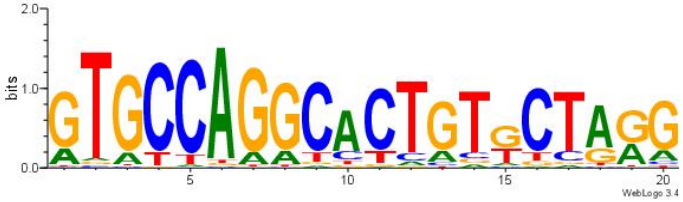

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

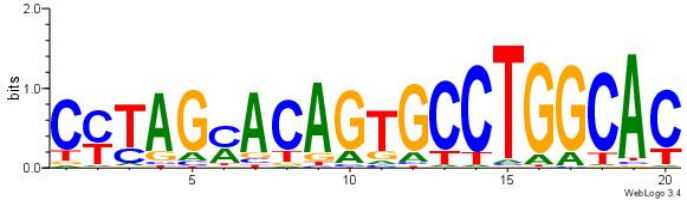

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.100801

Alignment:
ATTCAASATGAGATTTGGG
-TCCCAGACGGGGT-----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

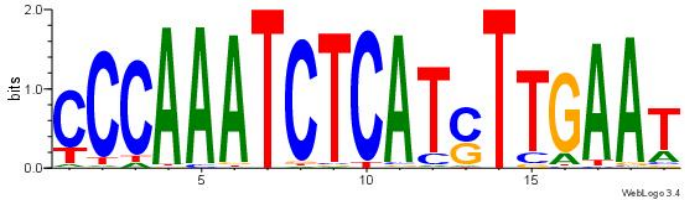

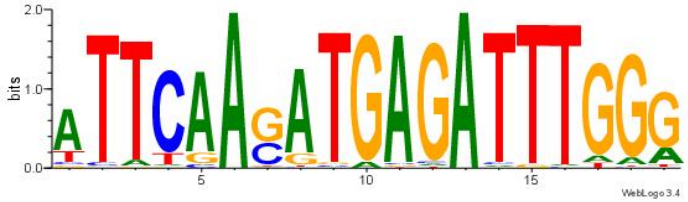

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.101405

Alignment:

```
GAGACTCCGTGGGCGT
ACCCCGTCTGGGA---
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

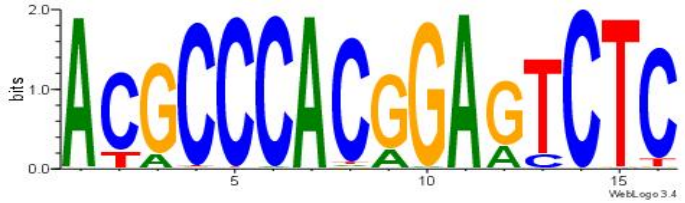

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

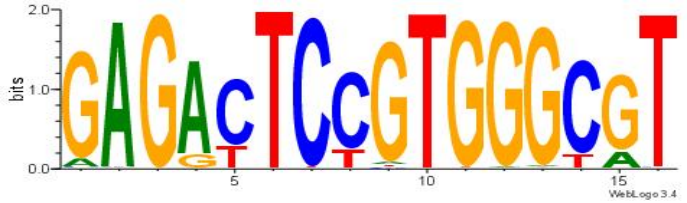

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.102377

Alignment:

```
GGCACTGCTGGGGGACCCAG
-TCCCAGACGGGGT------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

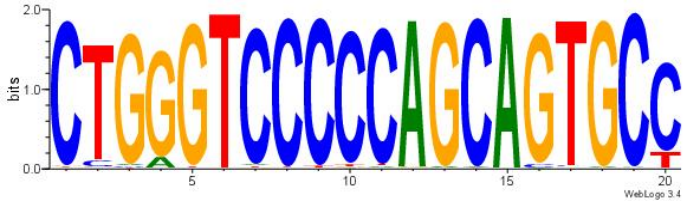

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

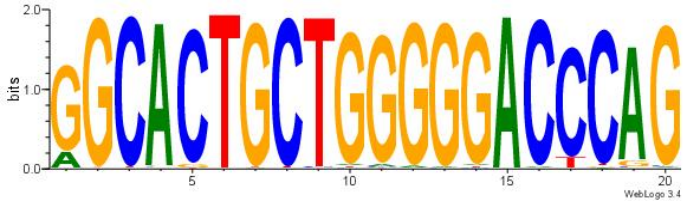

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.102754

Alignment:
GGGTGCAGGMGGGCTGAGT
--TCCCAGACGGGGT----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

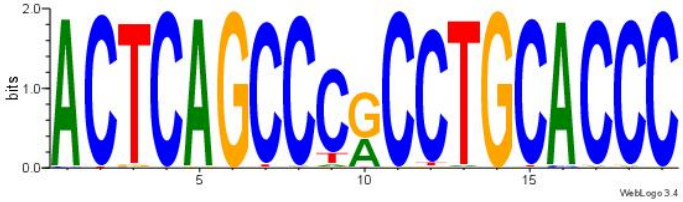

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

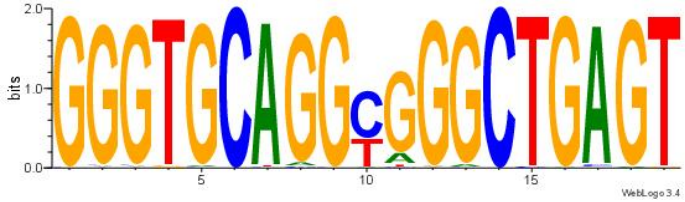

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.10327

Alignment:
AGACCAGCCTGGCCAAC
-ACCCCGTCTGGGA---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

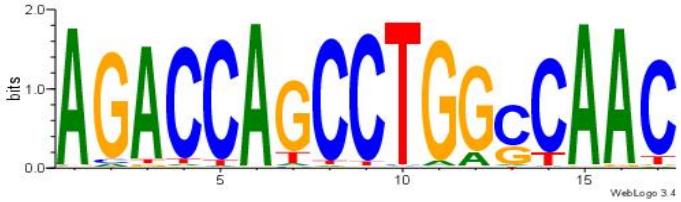

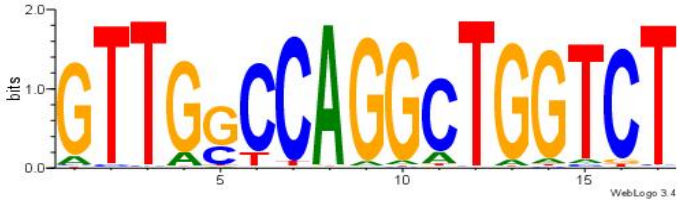

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.103607

Alignment:

```
GGCCMGCAGGGCKGGC
TCCCAGACGGGGT---
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

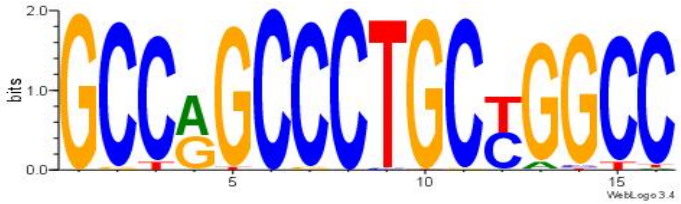

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

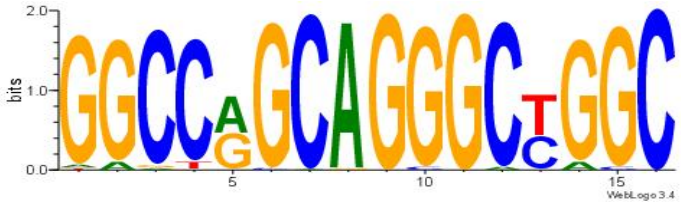

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.104064

Alignment:

```
GTAACACTCACCGCGARGGT
-------TCCCAGACGGGGT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

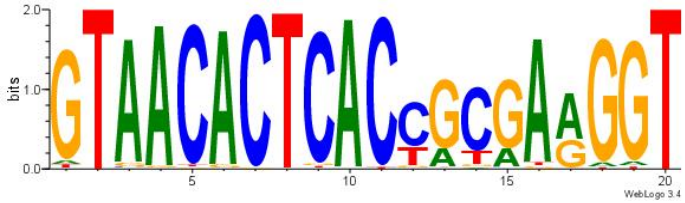

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

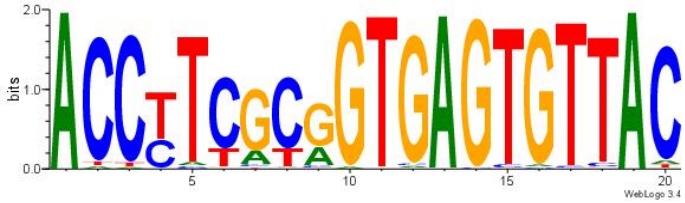

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.104861

Alignment:
ATCTGACAGGAGGYRGAGCT
------TCCCAGACGGGGT-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

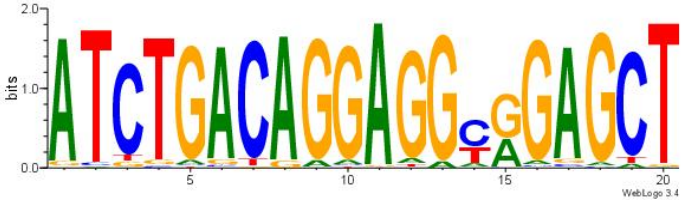

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

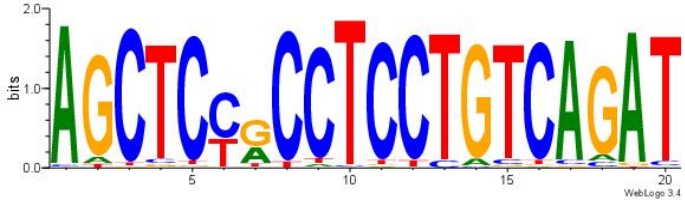

Dataset #: 1
Motif ID: 128
Motif name: Motif 128
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.106107

Alignment:
CCGCACTCGGAGCRG
--TCCCAGACGGGGT

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

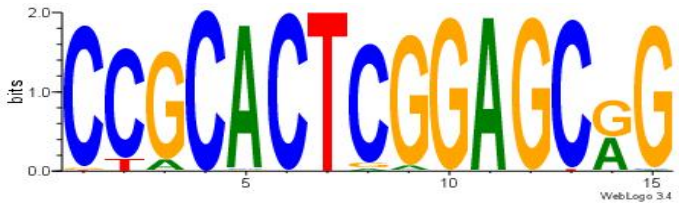

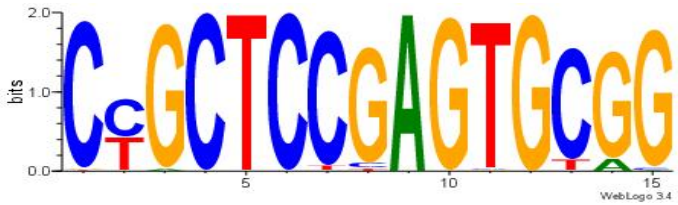

Dataset #:	1
Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10627

Alignment:

```
TGGCCTGTTAGGAA
-ACCCCGTCTGGGA
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

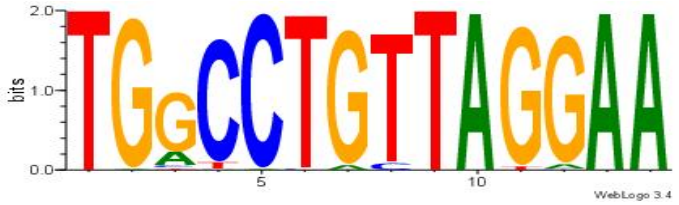

Reverse complement motif Consensus sequence: TTCCTAACAGGCCA

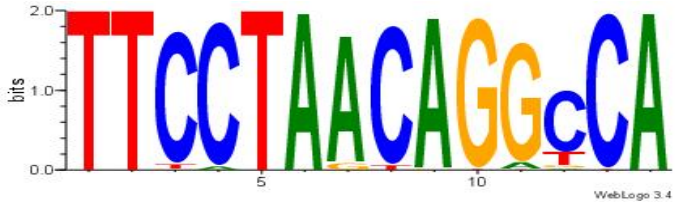

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.106377

Alignment:

```
CACCAGACTCAGGAGCCCAG
TCCCAGACGGGGT-------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

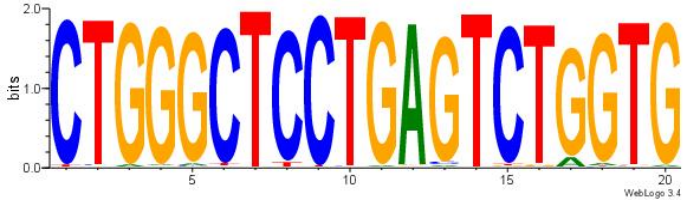

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

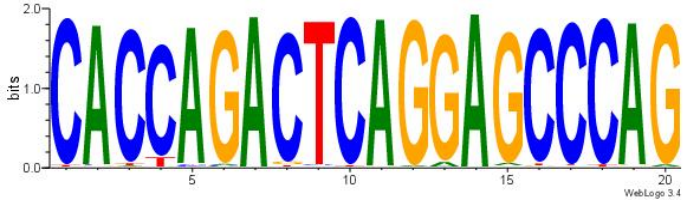

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.106472

Alignment:
GGGCTCCCACAGTGCAGCGG
----TCCCAGACGGGGT---

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

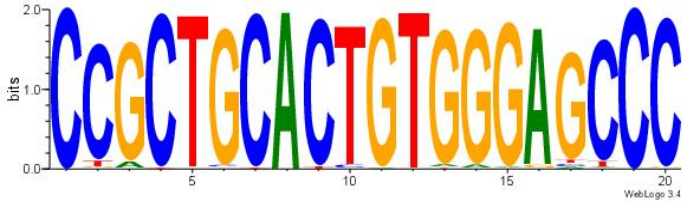

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

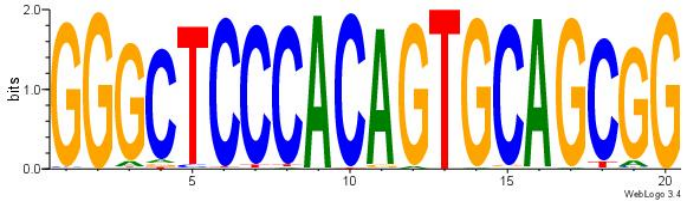

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10734

Alignment:
GTGGCCCTCTTCTCACAGCT
----ACCCCGTCTGGGA---

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

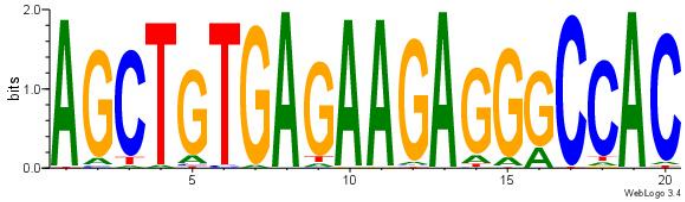

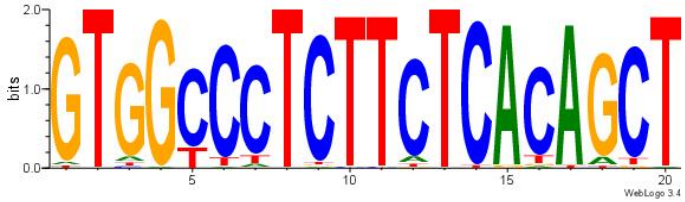

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.107375

Alignment:

```
TTGTCCCACTGGAAGGTCTT
---TCCCAGACGGGGT----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

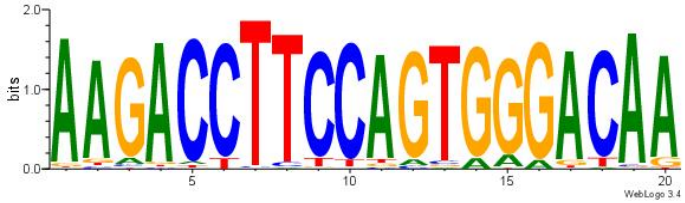

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

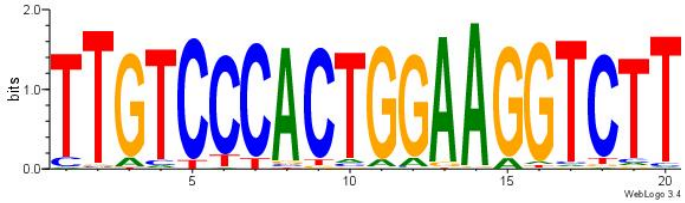

Dataset #:	1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.107774

Alignment:

```
GCCACCAMGCCMKGCTAAT
---ACCCCGTCTGGGA---
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

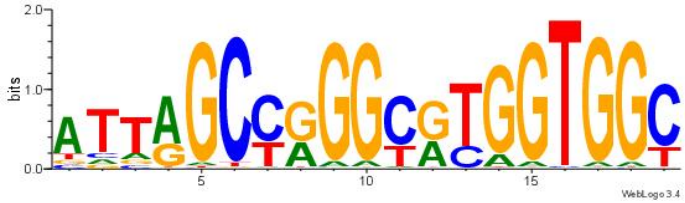

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

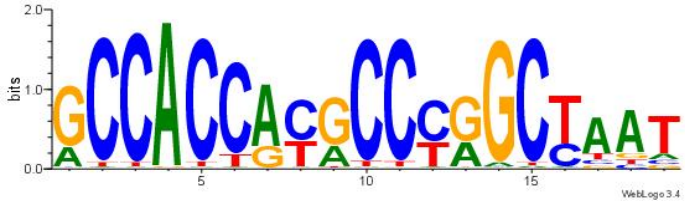

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.108047

Alignment:
TGGCTTCACCCAGTGGATCC
-----TCCCAGACGGGGT--

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

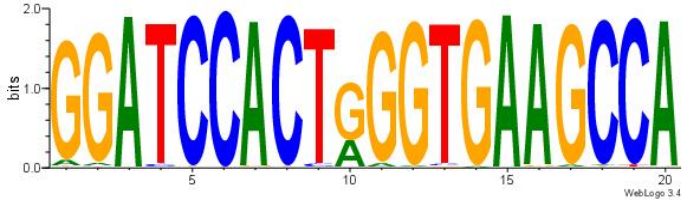

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

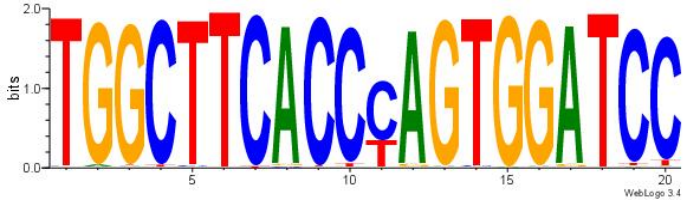

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.108406

Alignment:
GCCAATTTCTCCCATTTGGA
-------ACCCCGTCTGGGA

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

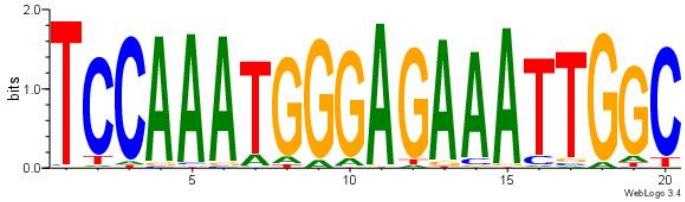

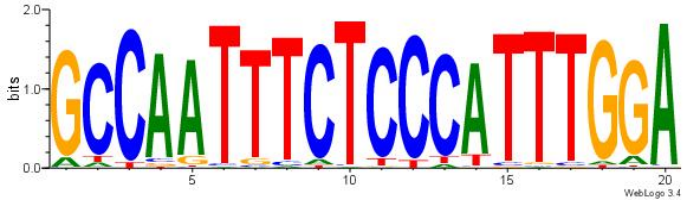

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.108903

Alignment:

```
TGCTCACACAAAGCCTGT
---TCCCAGACGGGGT--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

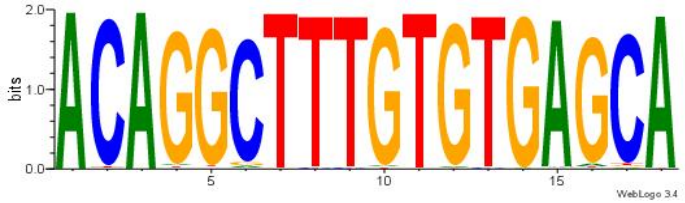

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

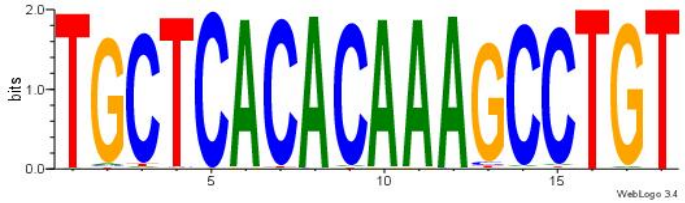

Dataset #: 1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.109992

Alignment:

```
TACACCCTCCGCAGCC
--ACCCCGTCTGGGA-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

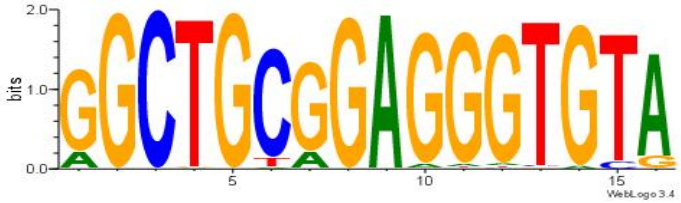

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

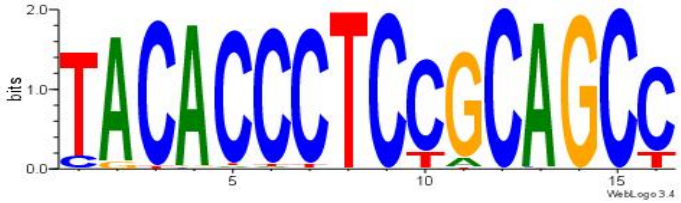

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.110734

Alignment:
KGGGCDGAGGGGCTCCT
-TCCCAGACGGGGT---

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

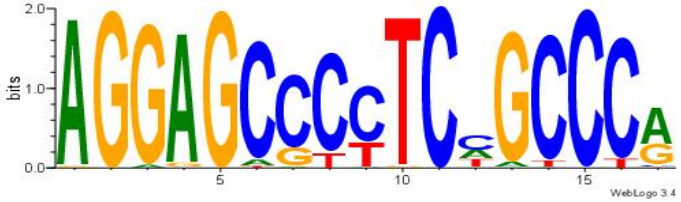

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.110981

Alignment:
ATTGATMKCCAGGGTTGATT
--TCCCAGACGGGGT-----

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

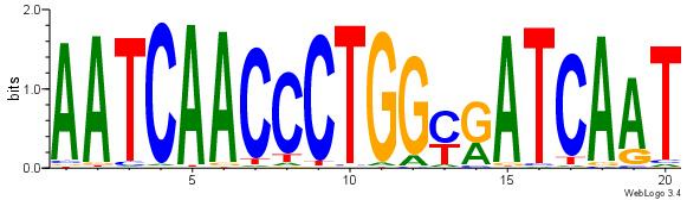

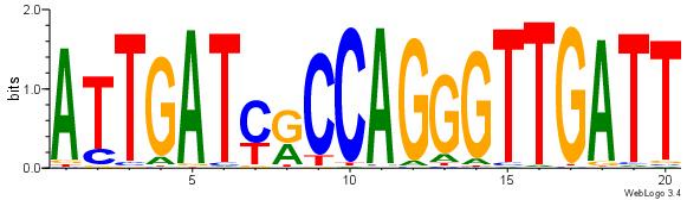

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.111441

Alignment:

```
ACCATCTTTAAGAACT
ACCCCGTCTGGGA---
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

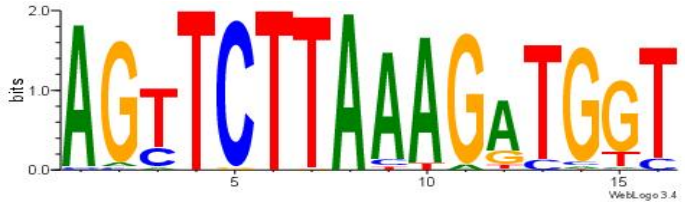

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

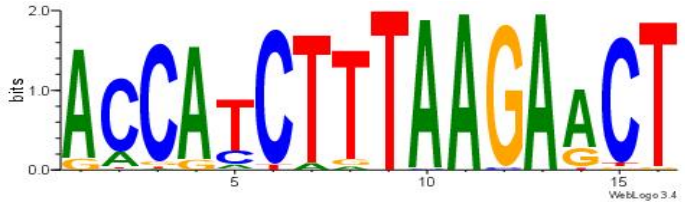

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.112046

Alignment:

```
ACACATCACAAAGCAGTTTC
-----TCCCAGACGGGGT--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

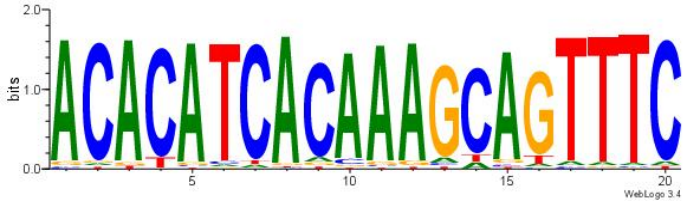

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

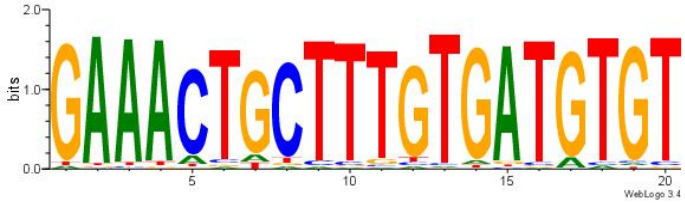

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.112349

Alignment:
ACCCAATWTGTAGTCTTTTA
-------ACCCCGTCTGGGA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

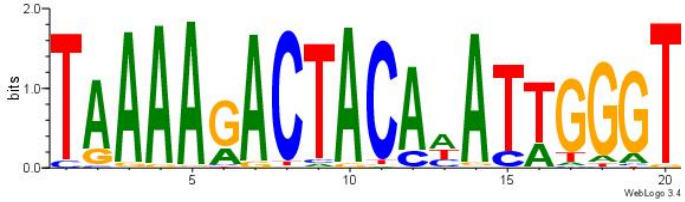

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

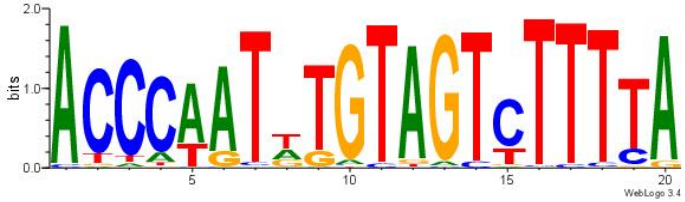

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.113141

Alignment:
GCTTAGCACCYGGGCCAGC
---TCCCAGACGGGGT---

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

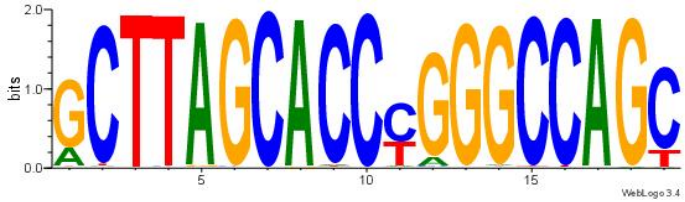

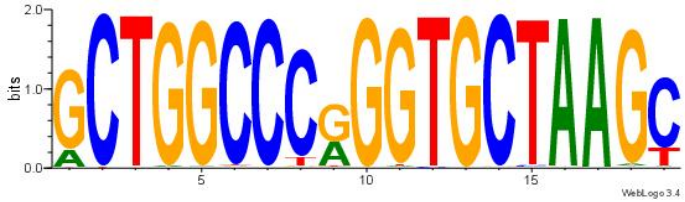

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.113149

Alignment:

```
AGGAGCGCCTCTKCCCGGC
------ACCCCGTCTGGGA
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

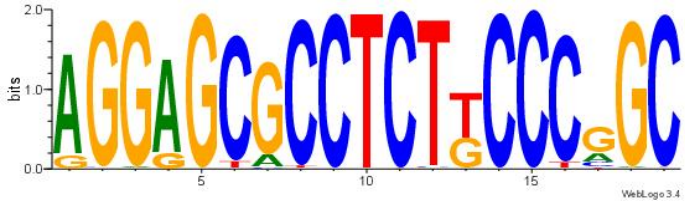

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

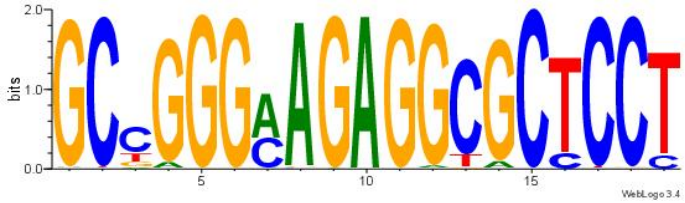

Dataset #:	1

Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113153

Alignment:

```
ACACCTATTCGCACAC
ACCCCGTCTGGGA---
```

Original motif Consensus sequence: ACACCTATTCGCACAC

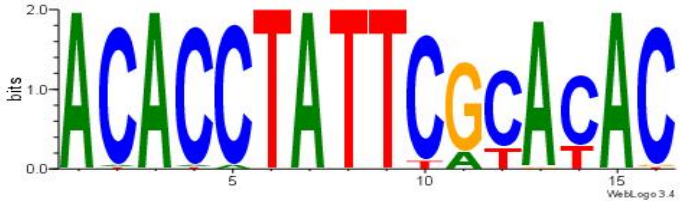

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

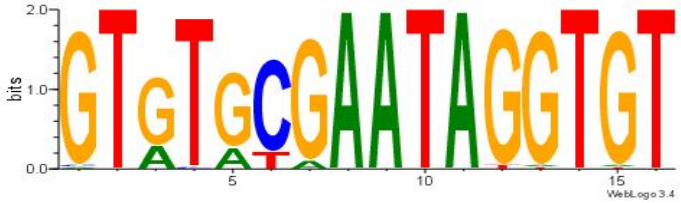

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.113404

Alignment:
CCACCAACAGTGTAY
TCCCAGACGGGGT--

Original motif Consensus sequence: CCACCAACAGTGTAY

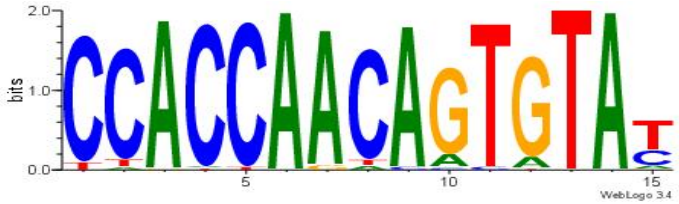

Reverse complement motif Consensus sequence: MTACACTGTTGGT

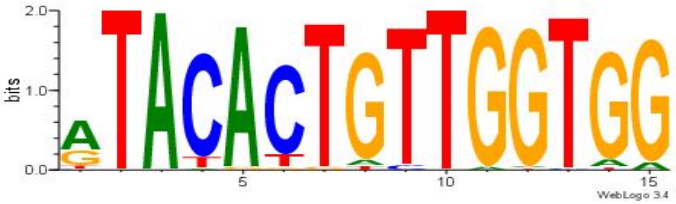

Dataset #: 1 Motif ID: 201 Motif name: Motif 201

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

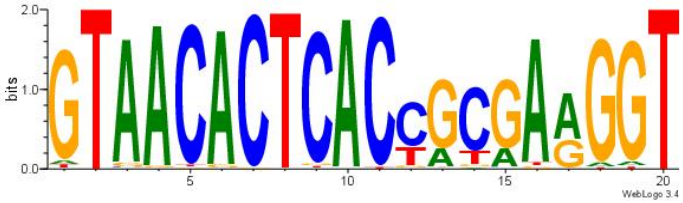

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

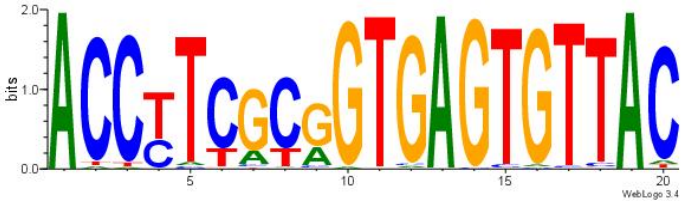

Best Matches for Motif ID 201 (Highest to Lowest)

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.11338

Alignment:
GTGGCCCTCTTCTCACAGCT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

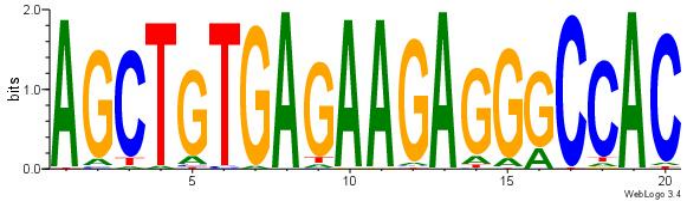

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

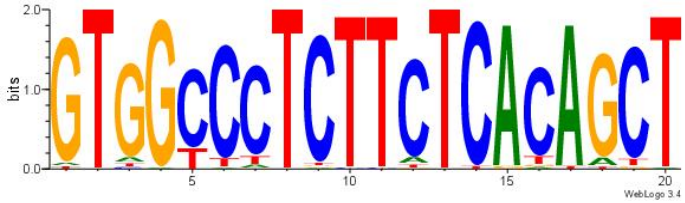

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114848

Alignment:
GCTCCACCCAGTTCGAGCTT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

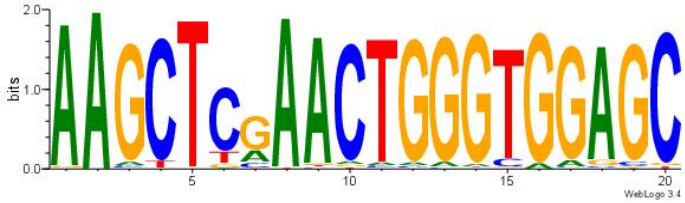

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

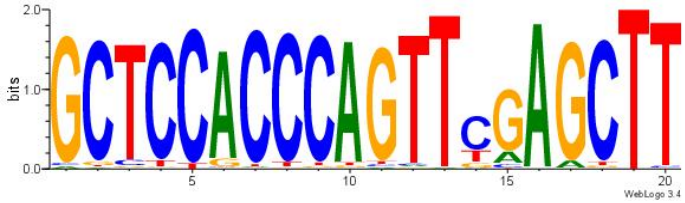

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120361

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

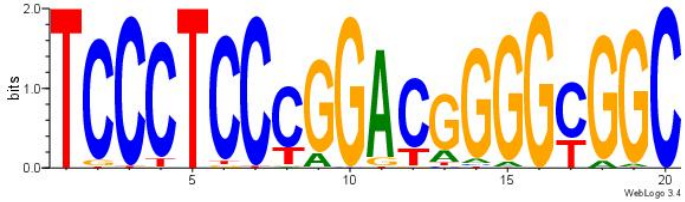

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

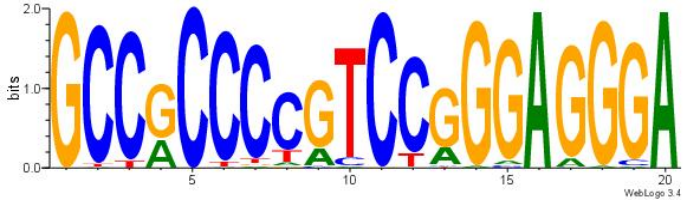

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122505

Alignment:

GTGCCAGGCACTGTKCTARG

GTAACACTCACCGCGARGGT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

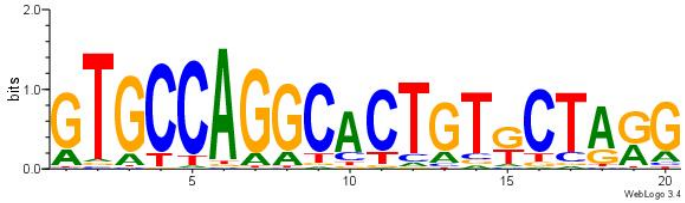

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

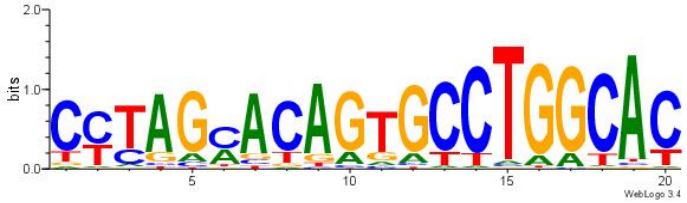

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.125295

Alignment:
AAGTTCTKGGKTACATGTGC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

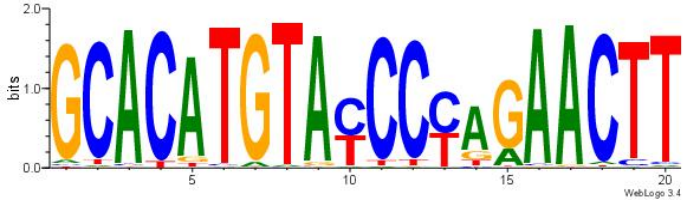

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

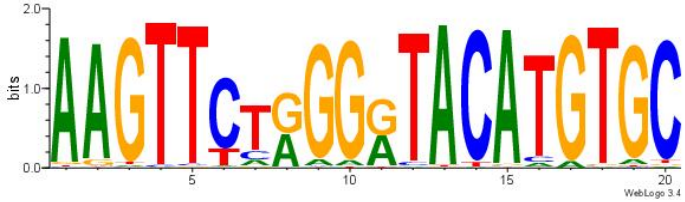

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132398

Alignment:
ACCCAATWTGTAGTCTTTTA
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

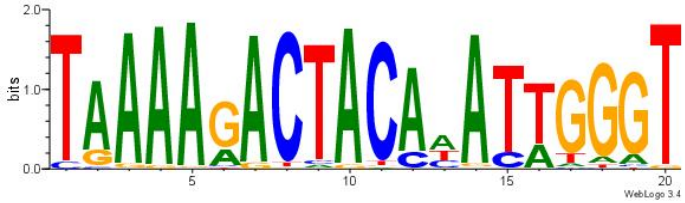

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

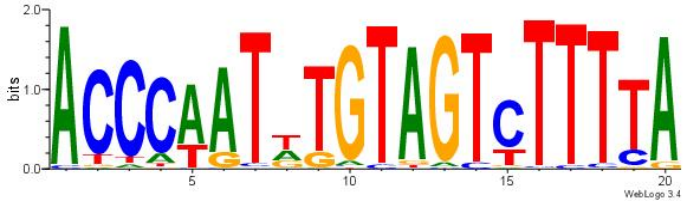

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135621

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

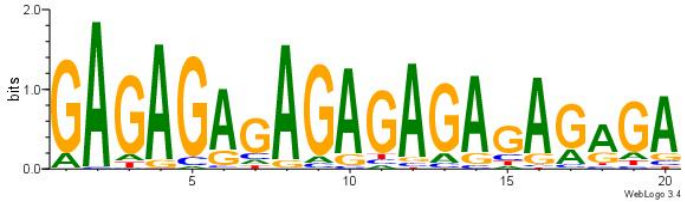

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

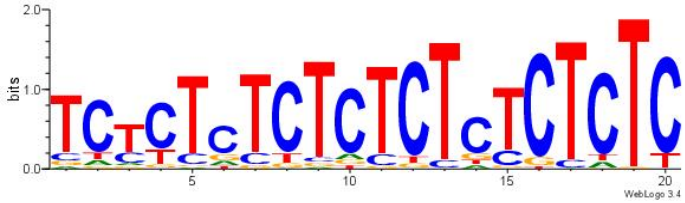

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136088

Alignment:

```
AAGTCCAAGATCAAGGTGYY
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

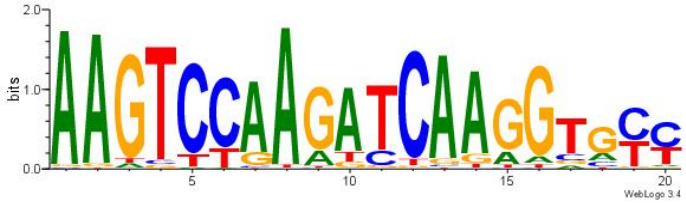

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

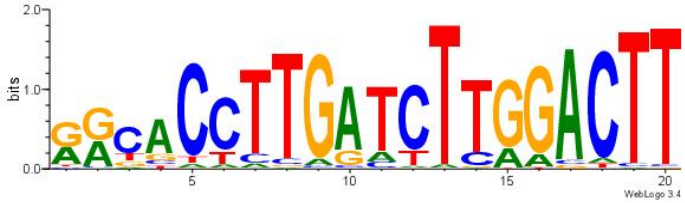

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.136141

Alignment:
ATCRCTTGAGSYCAGGAGKT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

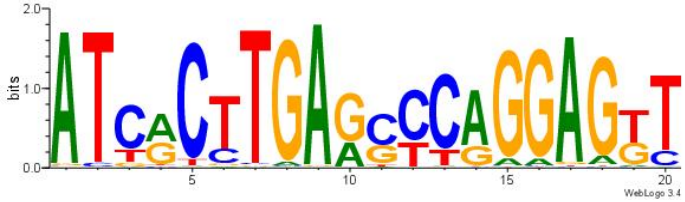

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

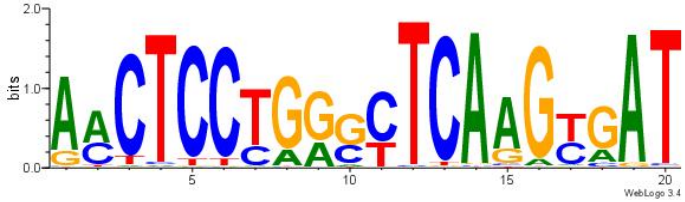

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137168

Alignment:
AAAATCACAAGCATTCCTAT
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

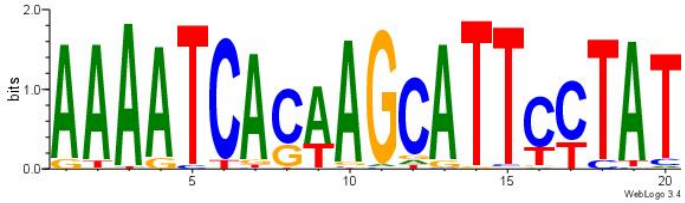

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

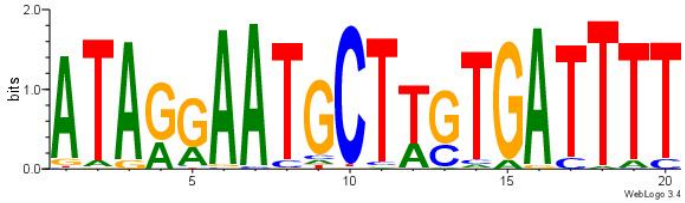

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137843

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

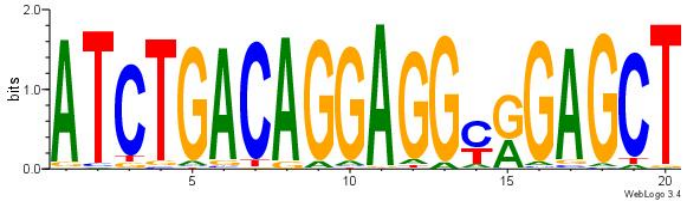

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

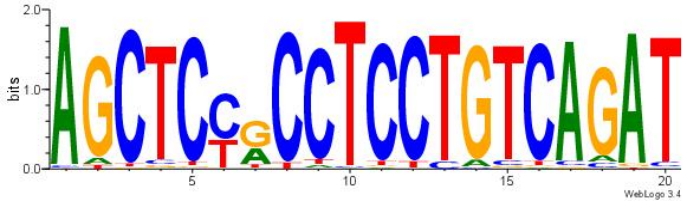

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137857

Alignment:

```
TYTGTCMTTTTGTGACTGGC
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

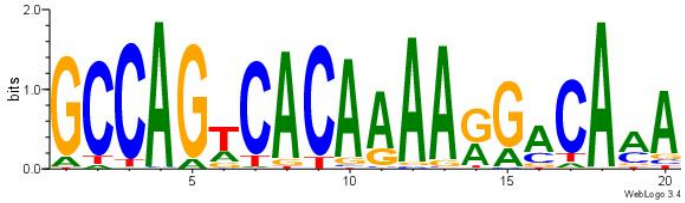

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

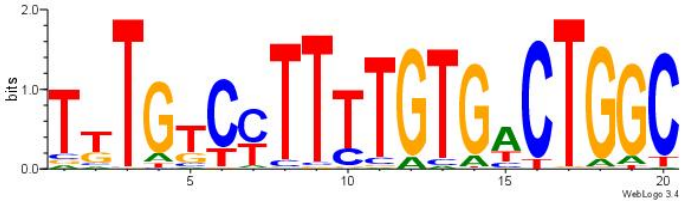

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.13806

Alignment:
GAAHCAACCKAAKTGTCCAT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

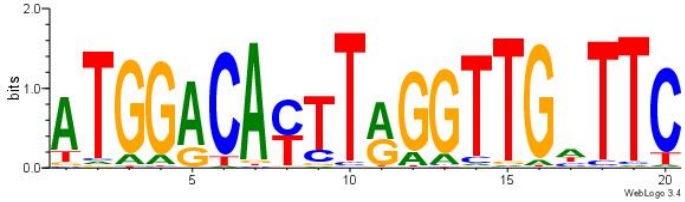

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

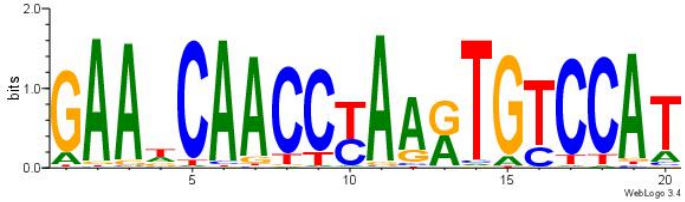

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138155

Alignment:
GGATTTMKGACTTGCATGGG
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

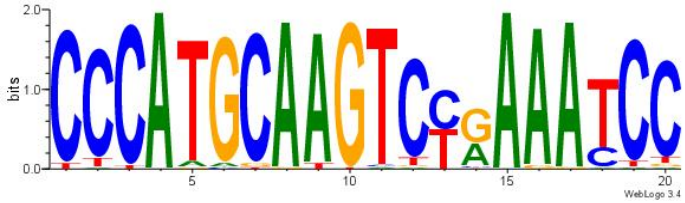

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

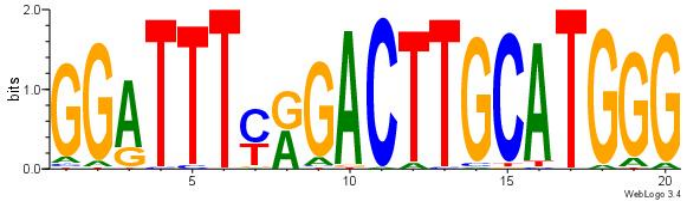

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138288

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

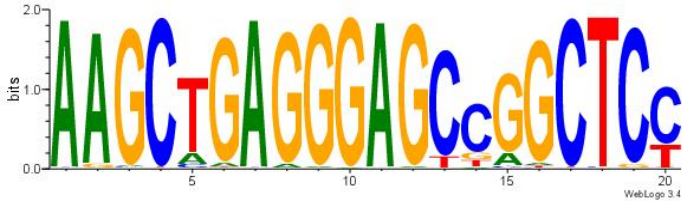

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

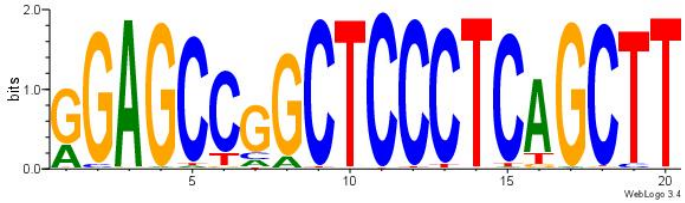

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138497

Alignment:

```
CCACCACAGCTCAAGGAGGC
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

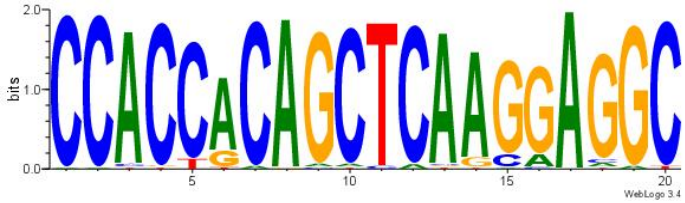

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

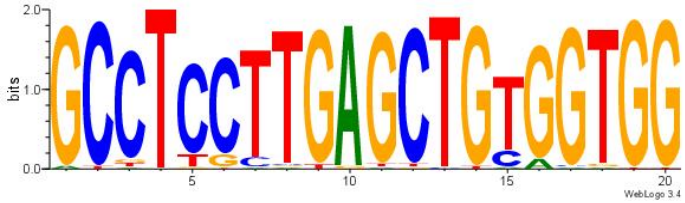

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.139268

Alignment:
CGAGCCTCCCCGAYGAGCGC
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

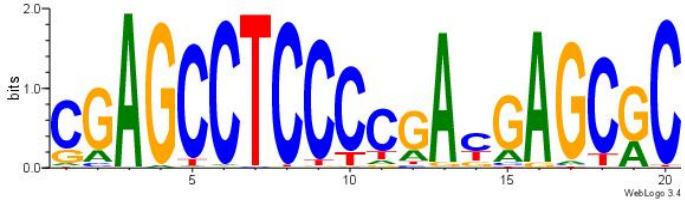

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

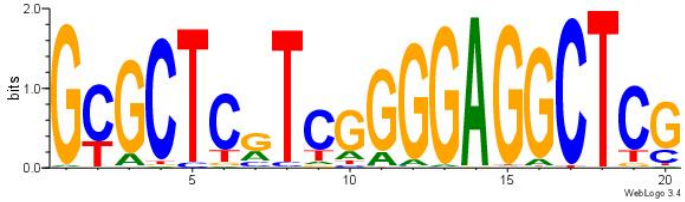

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139484

Alignment:
MGTCTMKCTCTGTKGCCCAG
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

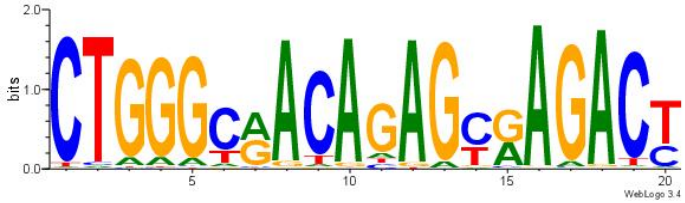

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

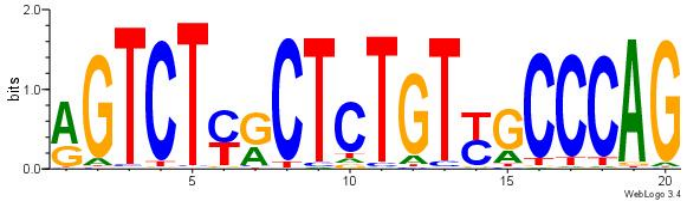

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13966

Alignment:

```
CTGGCCCTCAATGGTTAAAC
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

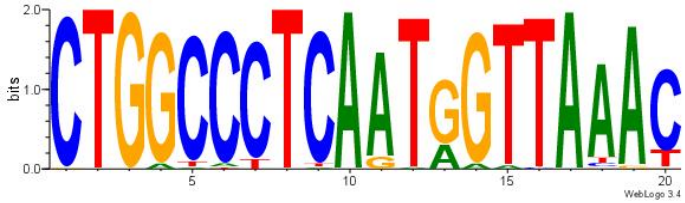

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

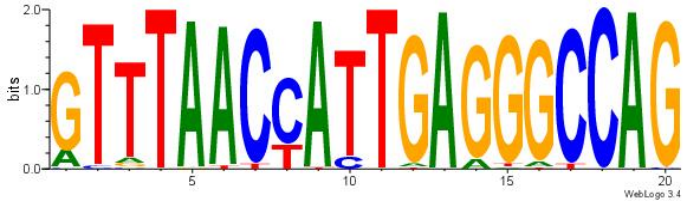

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141076

Alignment:

```
TCCAAATGGGAGAAATTGGC
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

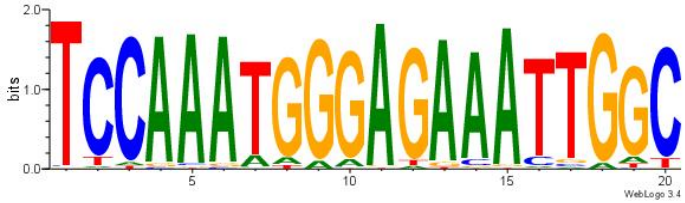

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

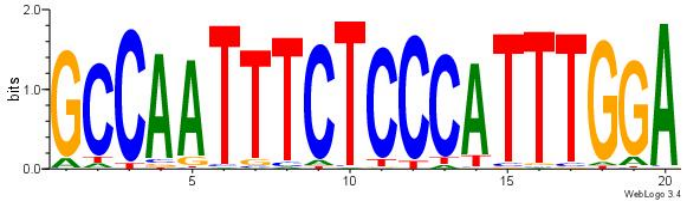

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.142621

Alignment:
AAATTACCCAGTCTCAGGTA
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

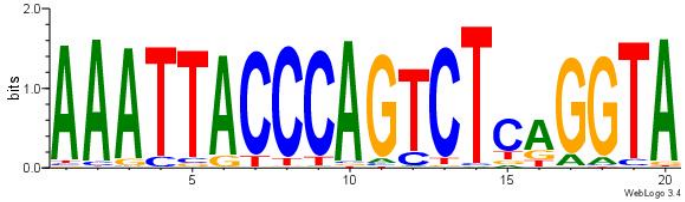

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

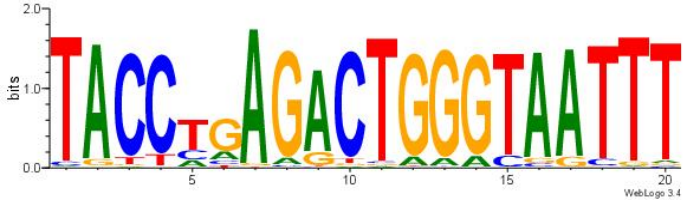

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145544

Alignment:
ACTTTGGACTGTGGACTTTT
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

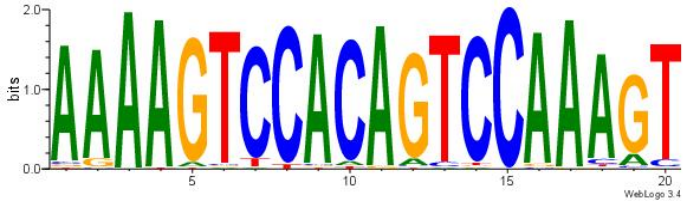

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

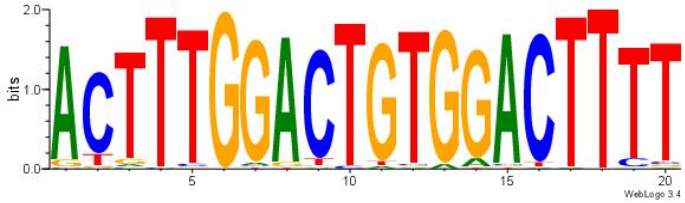

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145689

Alignment:

```
AGGTCCTTCAGGAGGTATTC
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

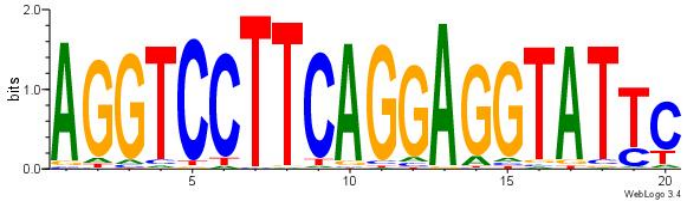

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

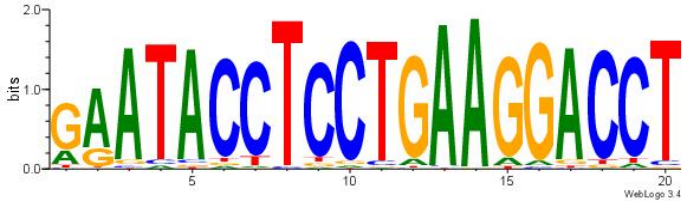

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147852

Alignment:
ACCGAGMKMGCAGCTTCGGG
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

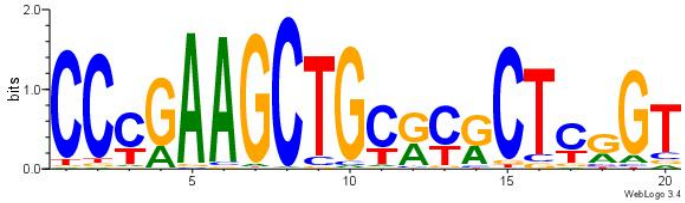

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

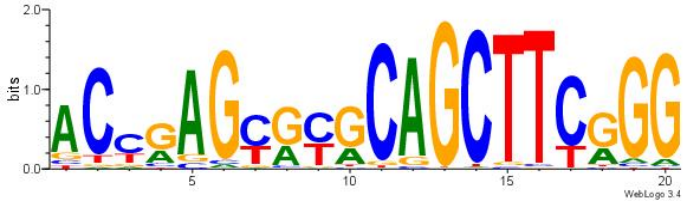

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.148934

Alignment:
AGTAGGTGCTCARTAAATRB
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

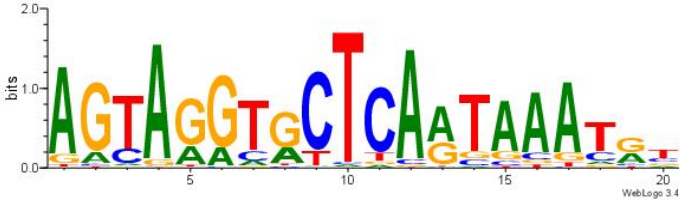

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

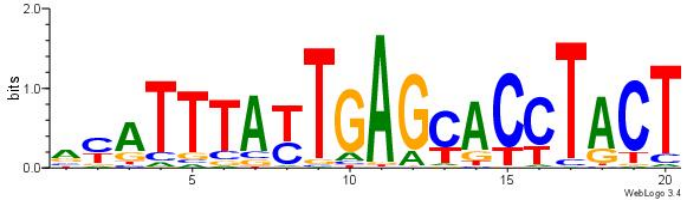

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150977

Alignment:
TTGGTAGGATCCGTGATGCC
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

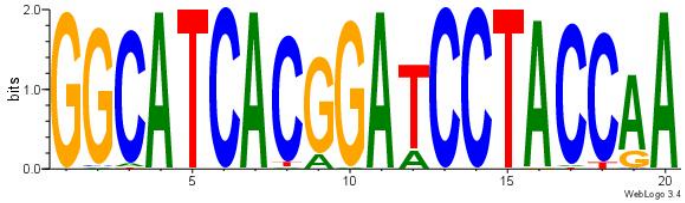

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

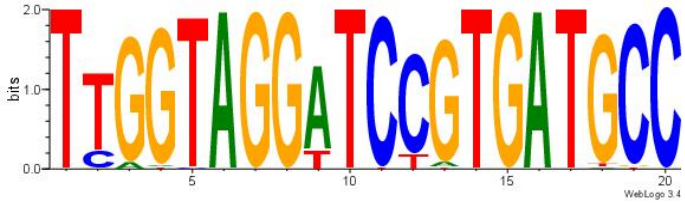

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150985

Alignment:

```
CAGGTGGTKTTTGGTTACAT
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

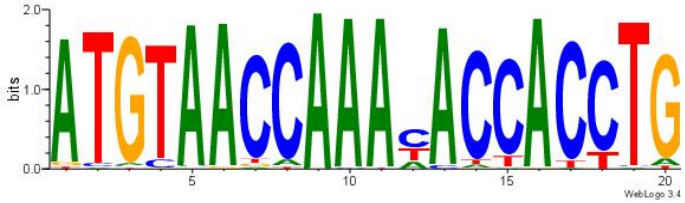

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

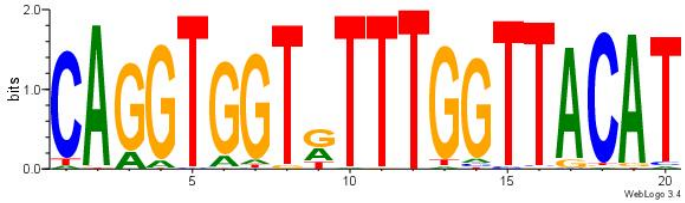

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151388

Alignment:

AATGAKATCATGTCYTTTGC

ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

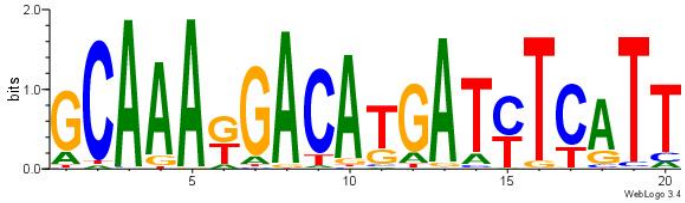

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

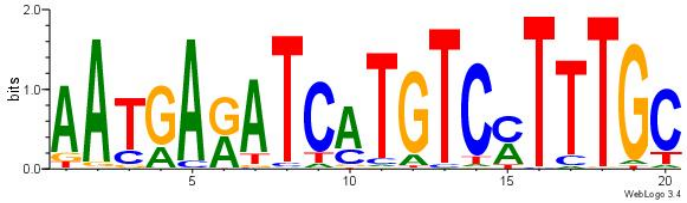

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.152168

Alignment:
ACTCCCTAGTGAGATGAACC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

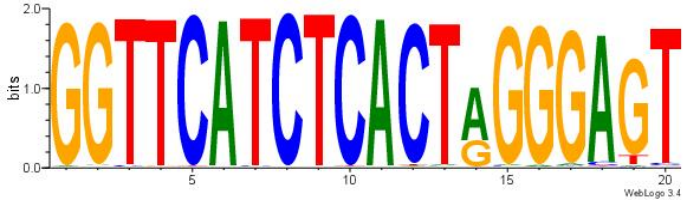

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

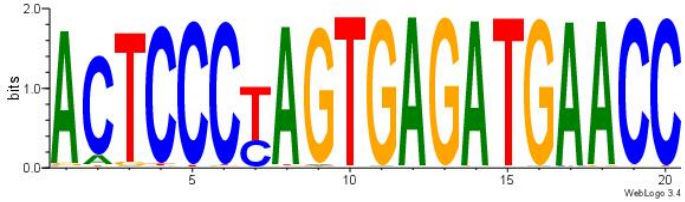

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.153015

Alignment:
TTTYTWTTTTTTYTWGAGAC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

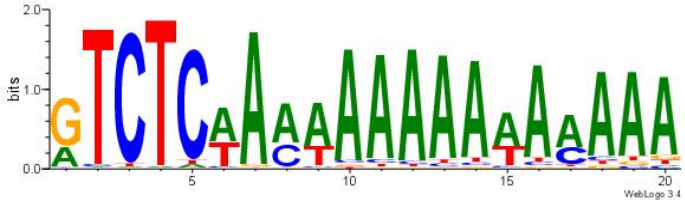

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

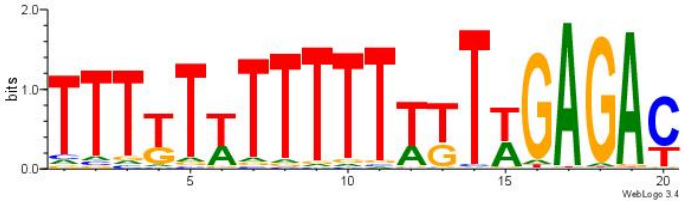

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15302

Alignment:

```
AAATTAGGCCAATTAATAAC
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

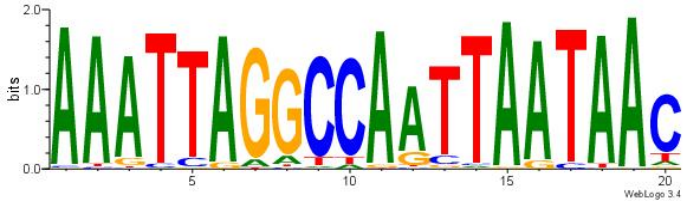

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153323

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

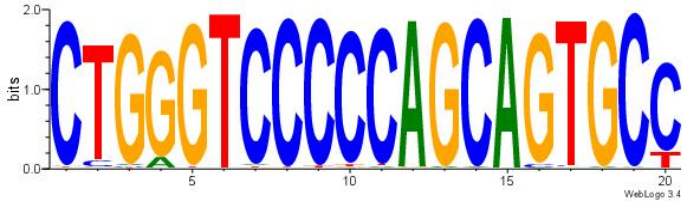

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

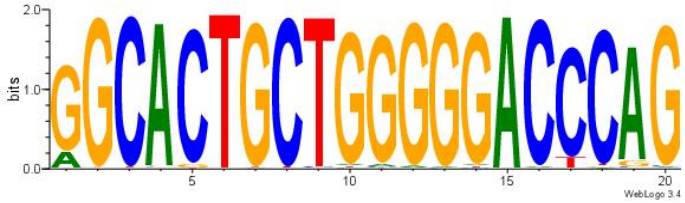

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.153341

Alignment:
GCCTCTCCCTCCACACCTCC
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

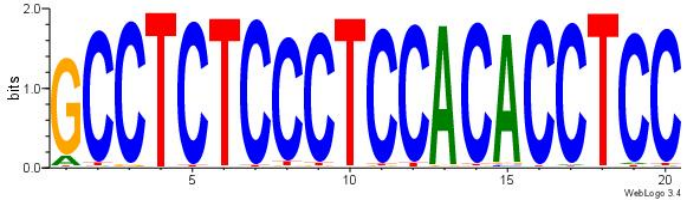

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

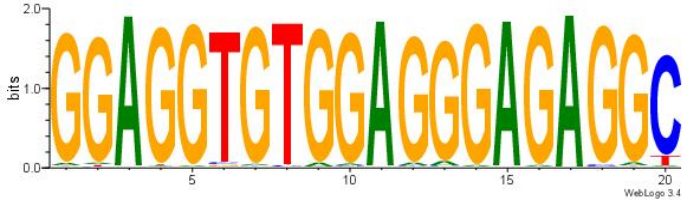

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153659

Alignment:
AAAATGTGGTAYATAYAYAC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

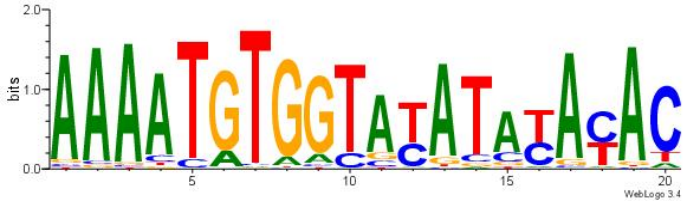

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

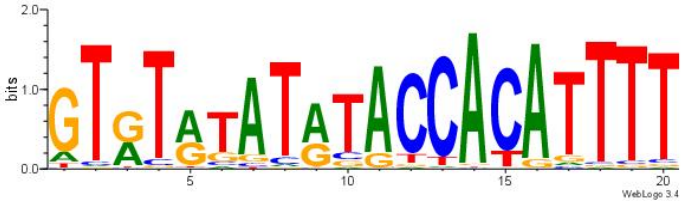

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154974

Alignment:

```
TWTACCTATGTAACAAACCT
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

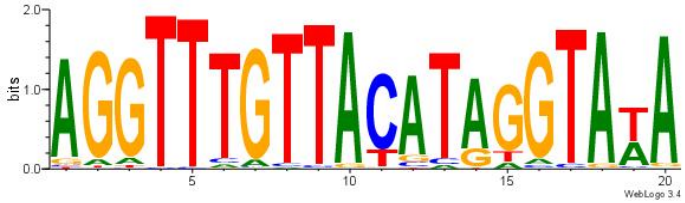

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

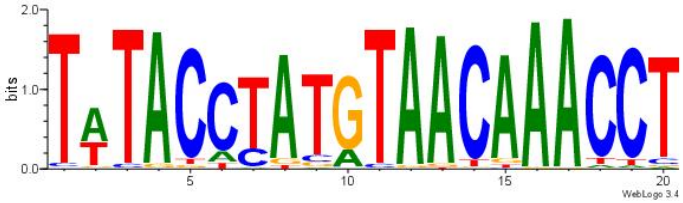

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155005

Alignment:
GAAACTGCTTTGTGATGTGT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

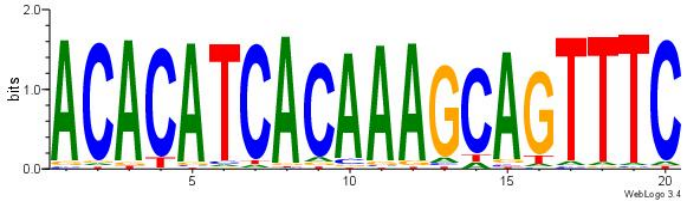

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

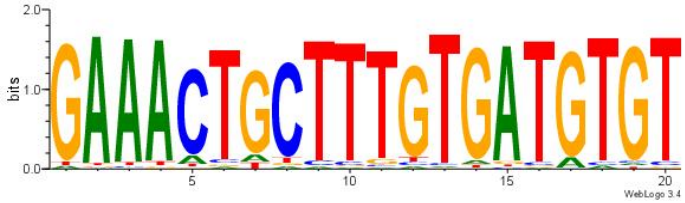

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.155229

Alignment:
AAGGAACAAACTCCRGACAC
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

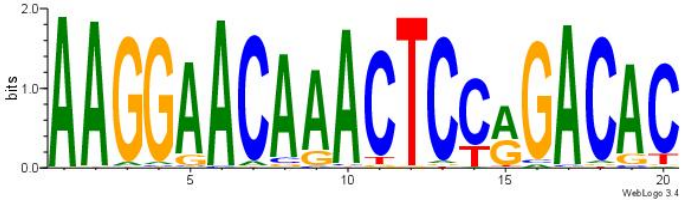

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

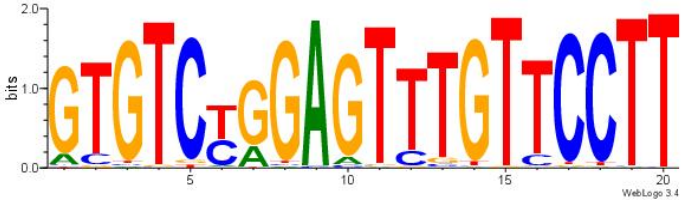

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15579

Alignment:
AGGACTGAGGGTGCCYRGGG
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

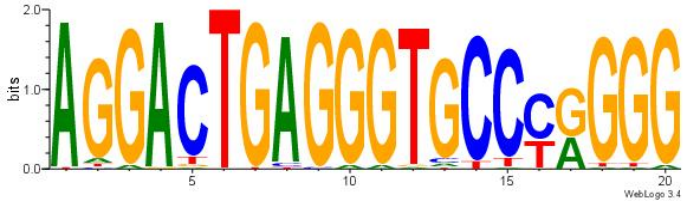

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

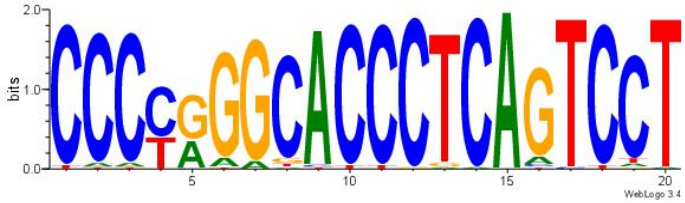

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157415

Alignment:

```
TAATTTTATGTGTCAACTTG
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

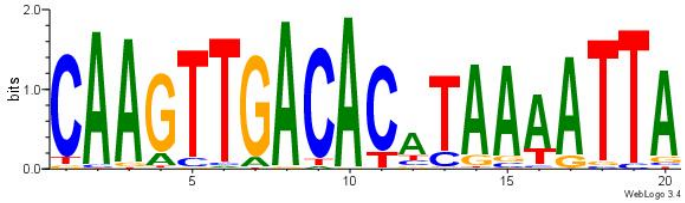

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

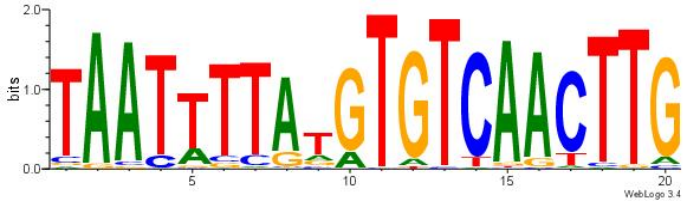

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157436

Alignment:
CGCGGCGCTTGCGGGCCAGC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

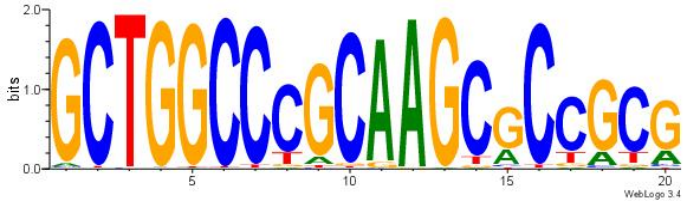

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

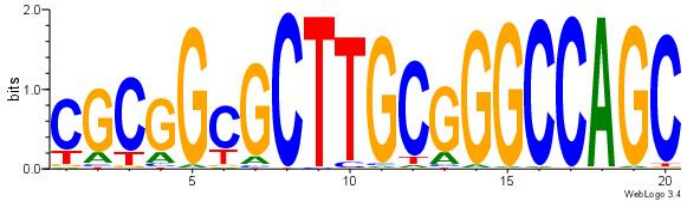

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.15751

Alignment:
MTCCTCCAGACCCCAGAATG
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

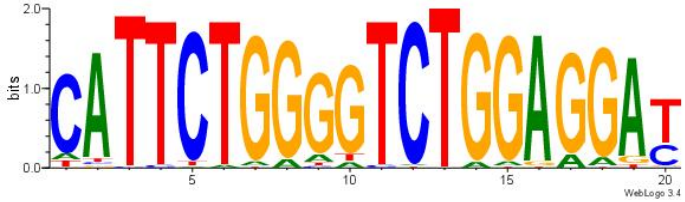

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

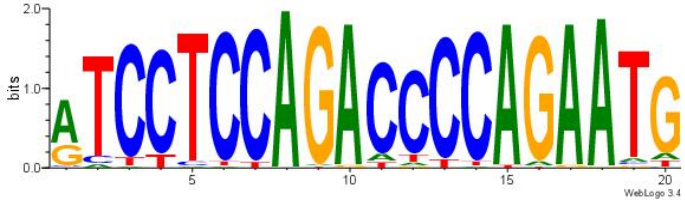

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157833

Alignment:
AAAGCTGGAGCTATTATCTA
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

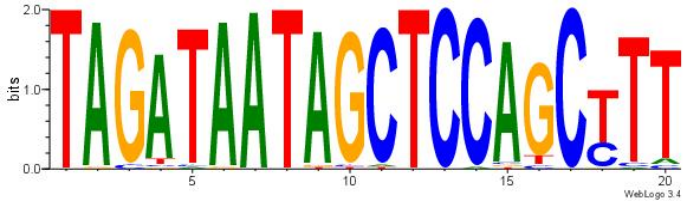

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

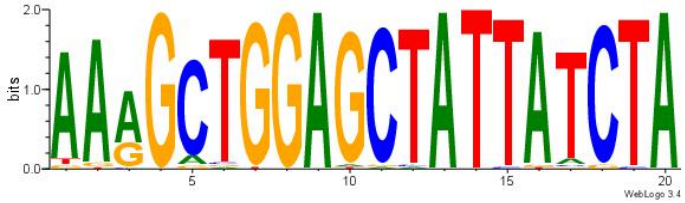

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158402

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
ACCKTCGCGGTGAGTGTTAC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

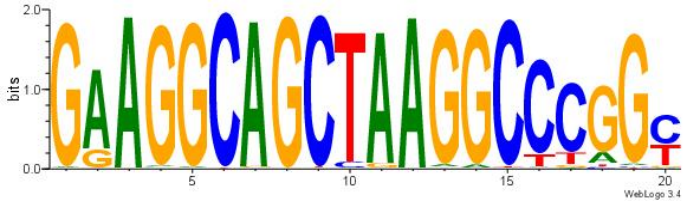

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

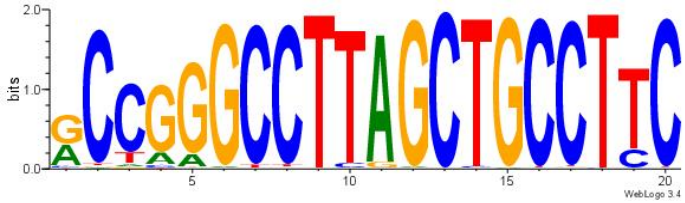

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159949

Alignment:
TTGTCCCACTGGAAGGTCTT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

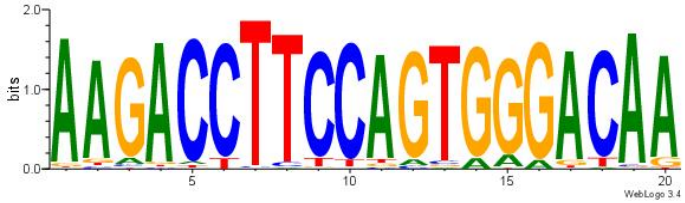

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

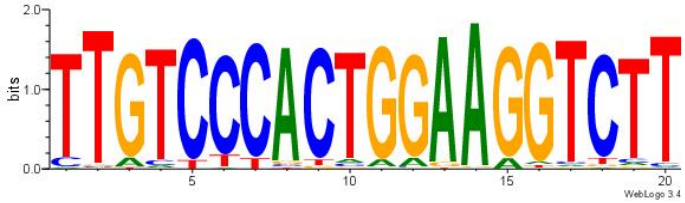

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.161052

Alignment:
AGGCCCCAGTGTSTGTTGTT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

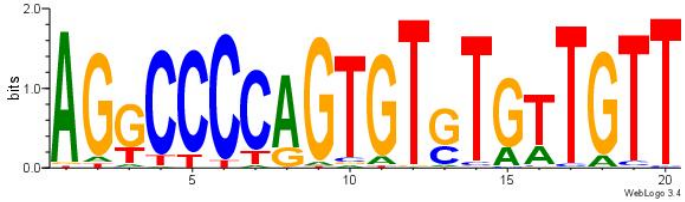

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

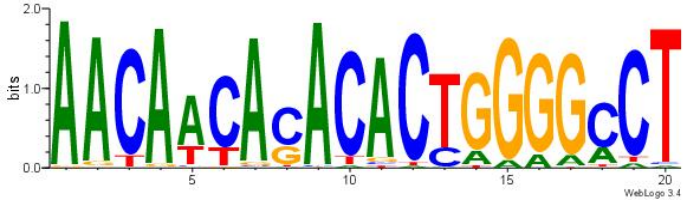

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.161574

Alignment:
ATTGGTGTATTTACAATCCC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

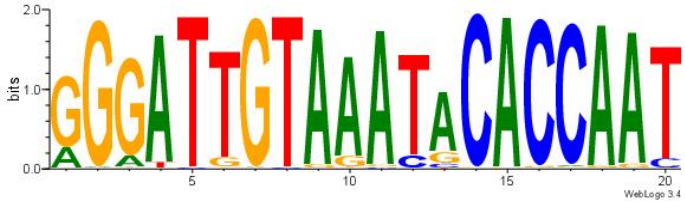

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162295

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
GTAACACTCACCGCGARGGT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

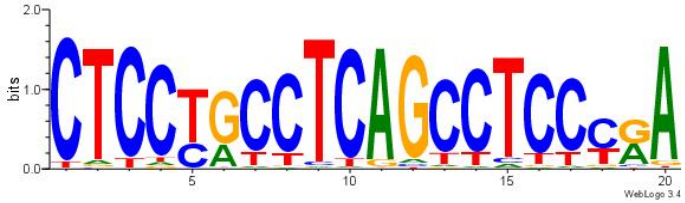

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

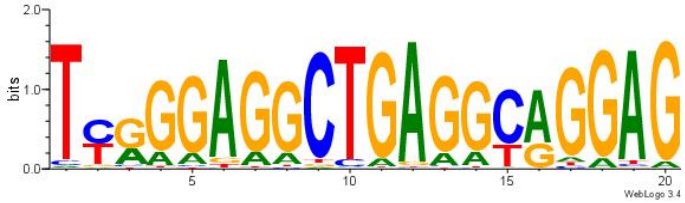

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163015

Alignment:
AGAGCCAAATCATGARTGAA
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

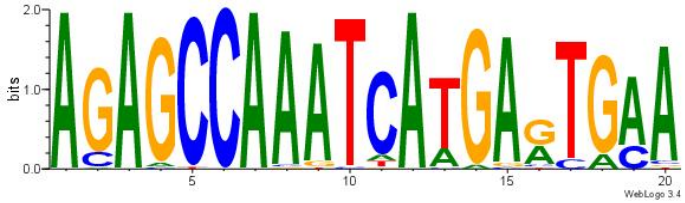

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

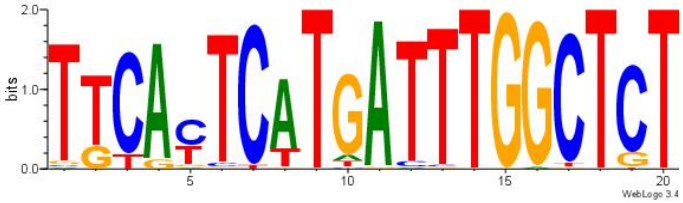

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.163507

Alignment:
AAGCAGGGCGAGGCATTGCC
ACCKTCGCGGTGAGTGTTAC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

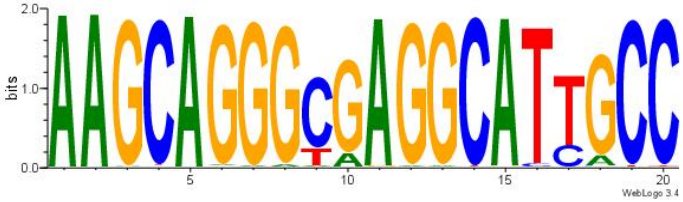

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

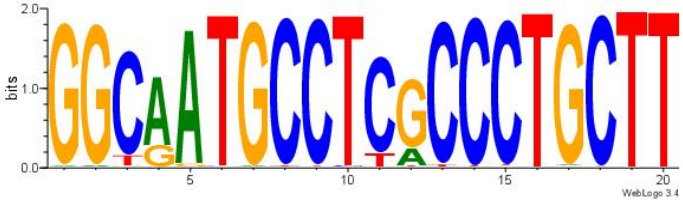

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.164165

Alignment:
ATGGAATAYTATTCAGCCAT
GTAACACTCACCGCGARGGT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

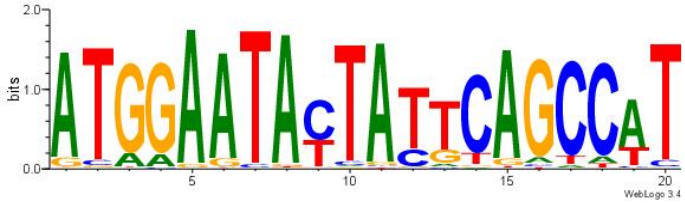

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

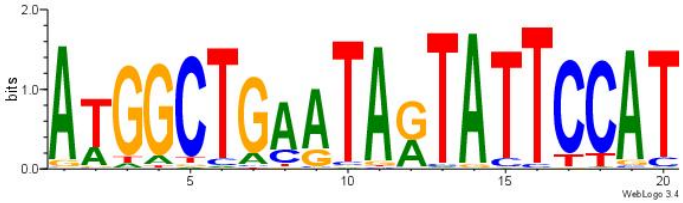

Dataset #: 1 Motif ID: 202 Motif name: Motif 202

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

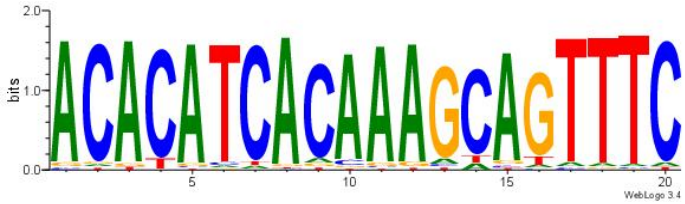

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

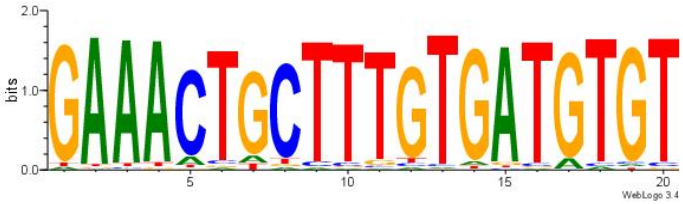

Best Matches for Motif ID 202 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117486

Alignment:
GGATCCACTGGGTGAAGCCA
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

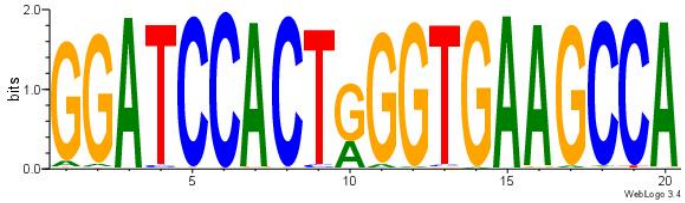

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

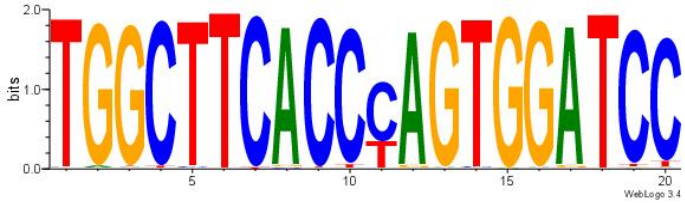

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1227

Alignment:
TAATTTTATGTGTCAACTTG
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

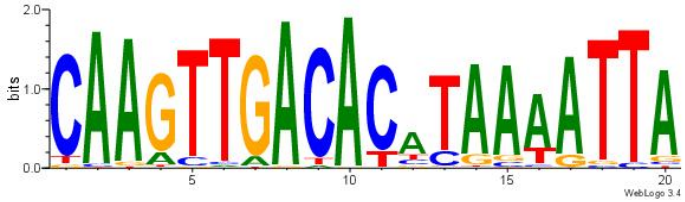

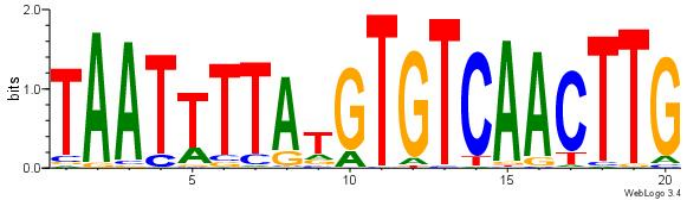

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123556

Alignment:

```
TAAAAGACTACAWATTGGGT
GAAACTGCTTTGTGATGTGT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

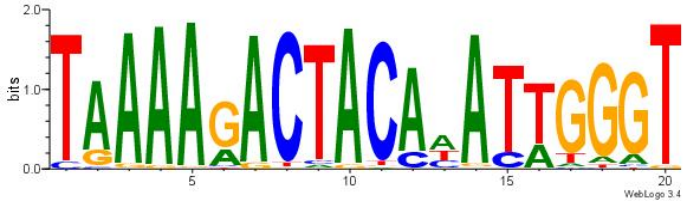

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

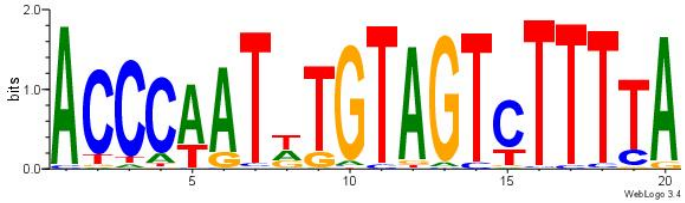

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.123649

Alignment:

```
AAGCAGGGCGAGGCATTGCC
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

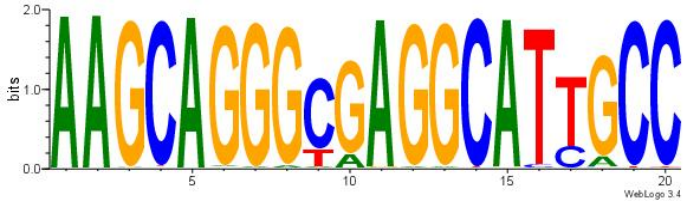

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

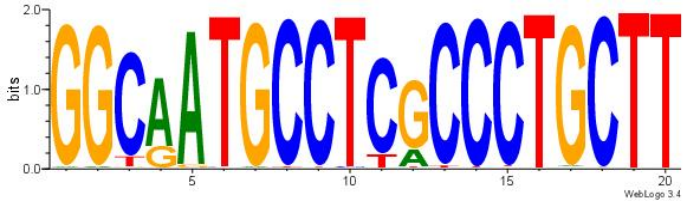

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.123761

Alignment:
CTGGGTCCCCCAGCAGTGCC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

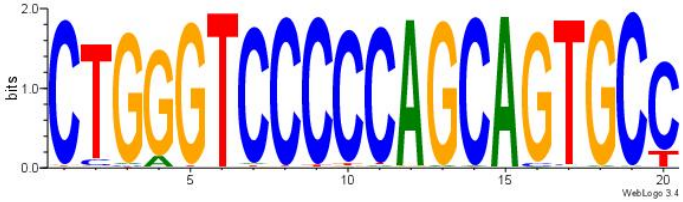

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

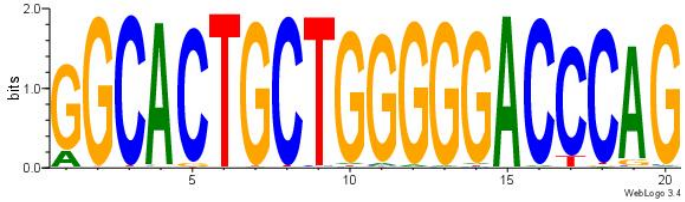

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.129246

Alignment:
AAAAGTCCACAGTCCAAAGT
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

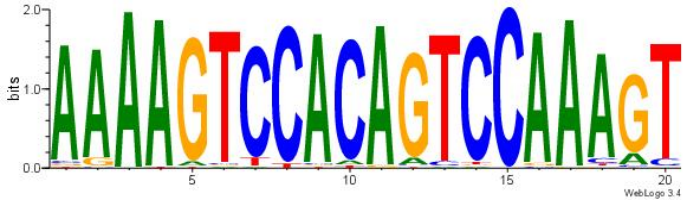

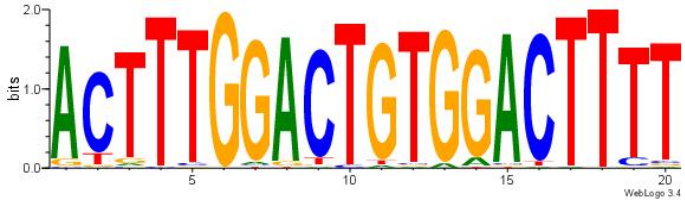

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131644

Alignment:

```
CATTCTGGGGTCTGGAGGAY
GAAACTGCTTTGTGATGTGT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

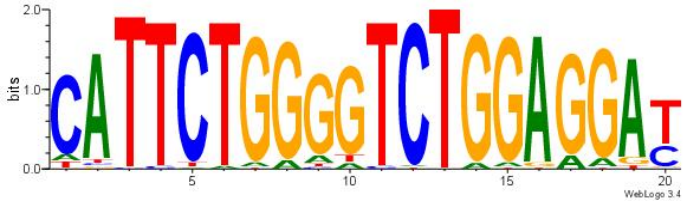

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

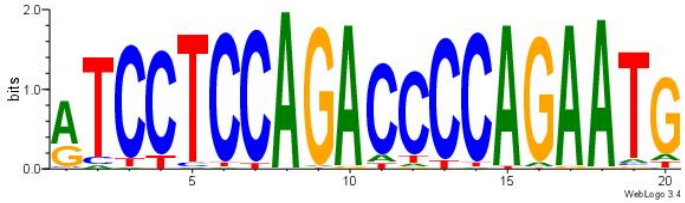

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132615

Alignment:

CAACATGGATGRARCTGGAG

GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

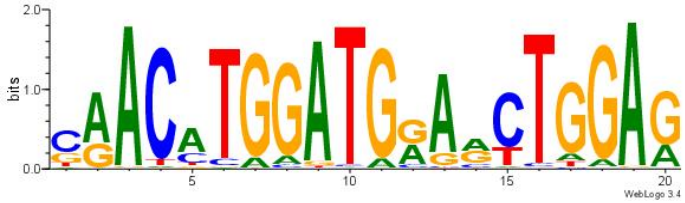

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

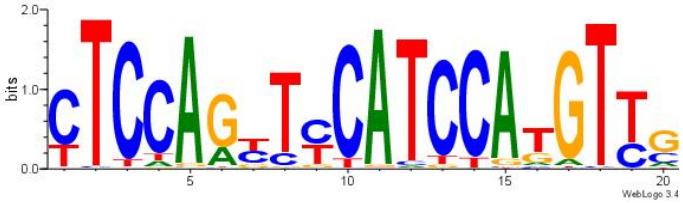

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133161

Alignment:
ATGGAATAYTATTCAGCCAT
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

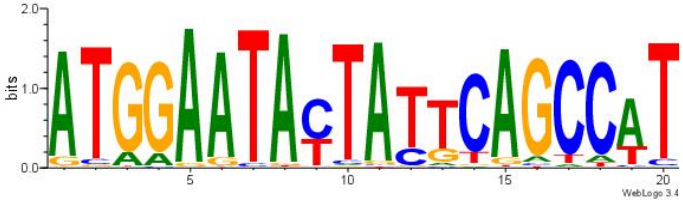

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

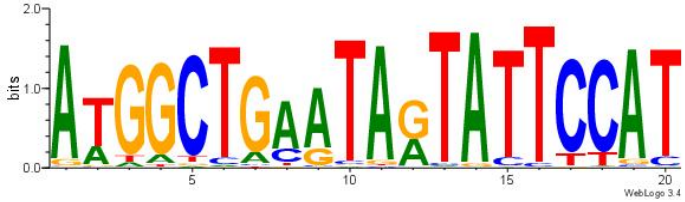

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133966

Alignment:
GCAAAKGACATGATYTCATT
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

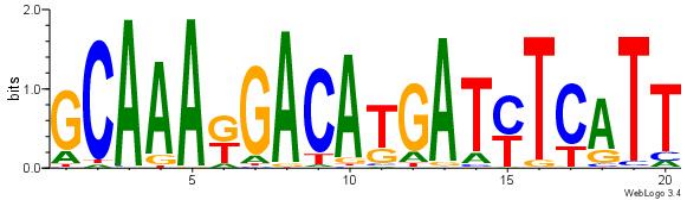

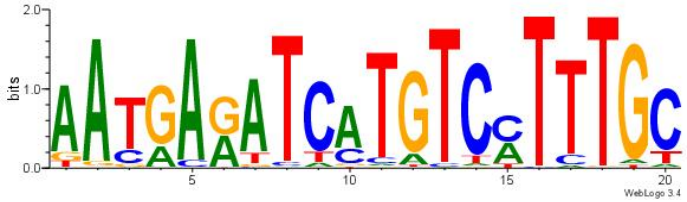

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134685

Alignment:
GTGTCKGGAGTTTGTTCCTT
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

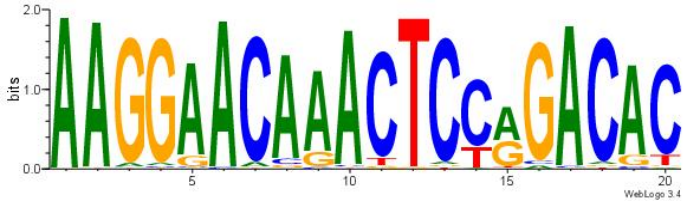

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

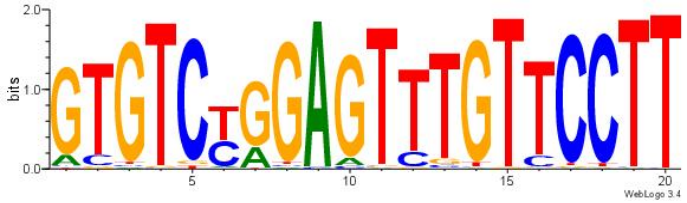

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136241

Alignment:

```
ATTGATMKCCAGGGTTGATT
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

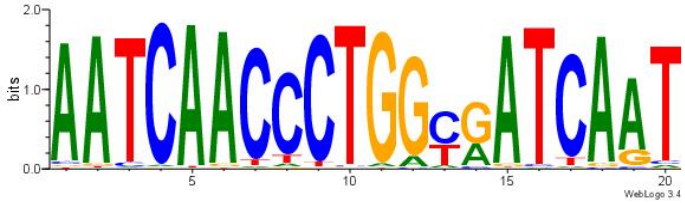

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

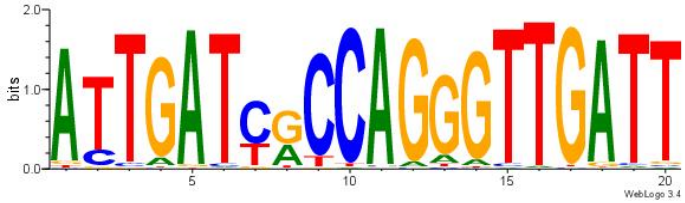

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.136701

Alignment:
ATGGACAYTTRGGTTGHTTC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

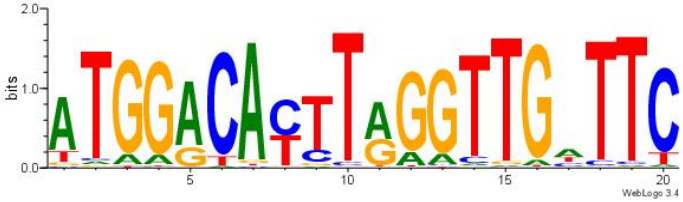

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

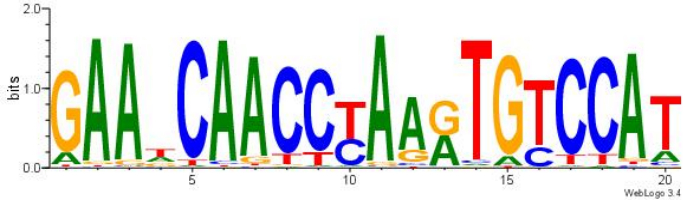

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.137307

Alignment:
GCCAGTCACAAAARGACAMA
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

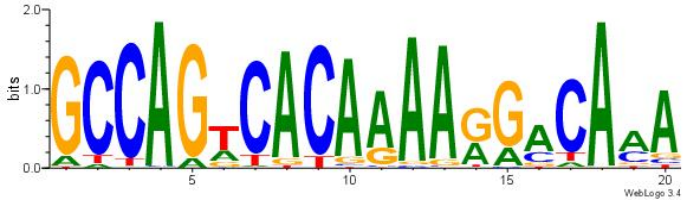

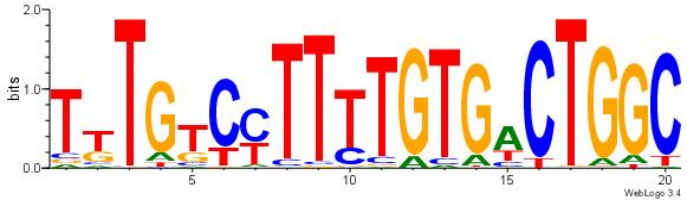

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137365

Alignment:

```
AGTGAGAACATRYRRTRTTT
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

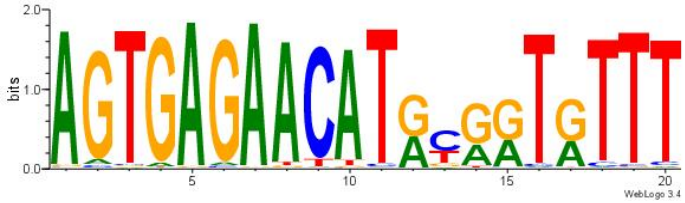

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

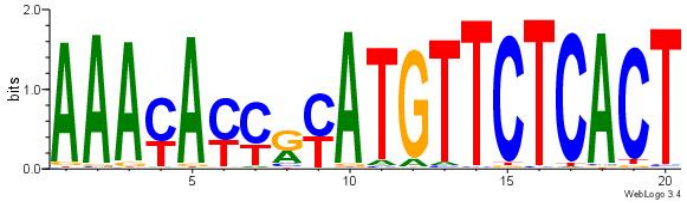

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13858

Alignment:
AAATTAGGCCAATTAATAAC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

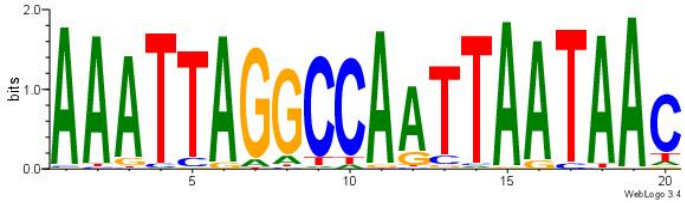

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139216

Alignment:
ACCGAGMKMGCAGCTTCGGG
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

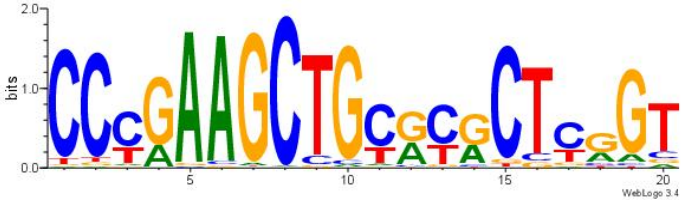

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

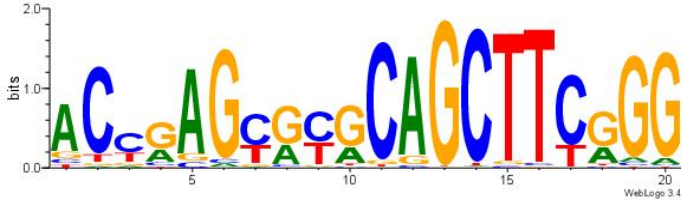

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140187

Alignment:
ACTCCCTAGTGAGATGAACC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

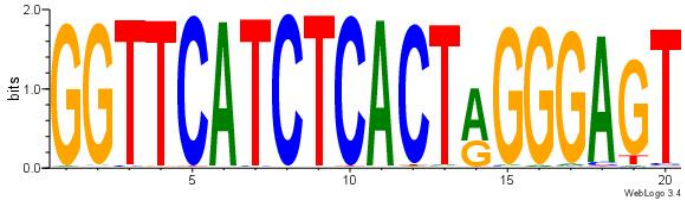

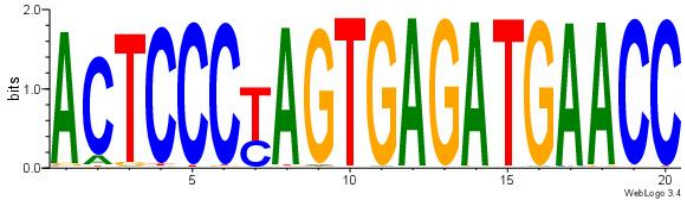

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141156

Alignment:

```
GCCTCTCCCTCCACACCTCC
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

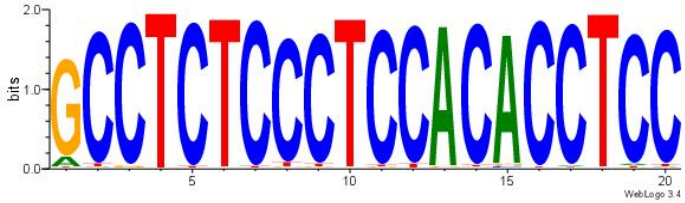

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

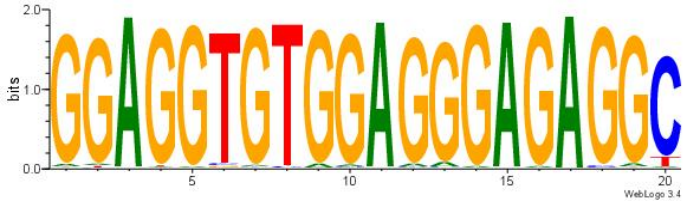

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141521

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
GAAACTGCTTTGTGATGTGT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

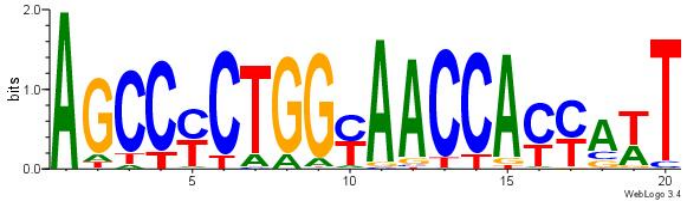

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

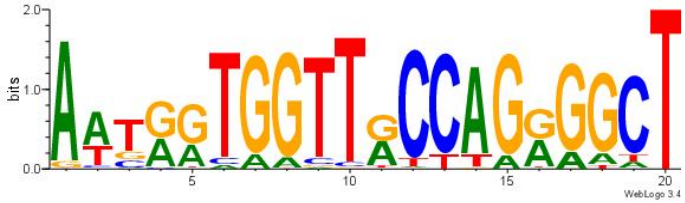

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145413

Alignment:
ATGTAACCAAAYACCACCTG
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

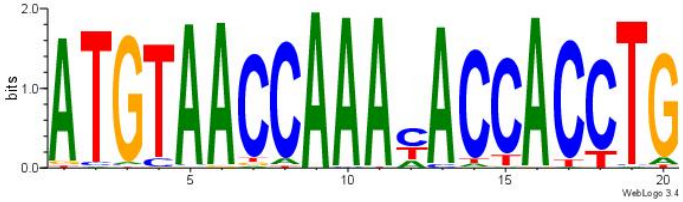

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

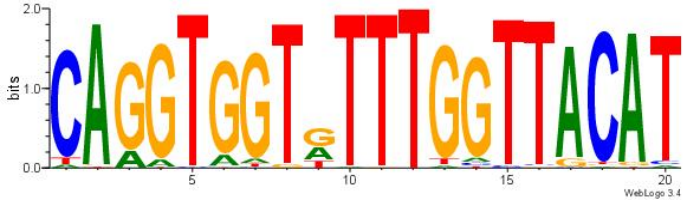

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146519

Alignment:
ATCTGACAGGAGGYRGAGCT
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

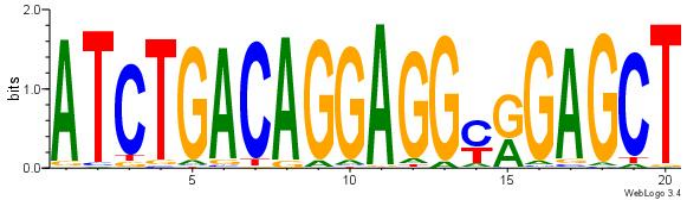

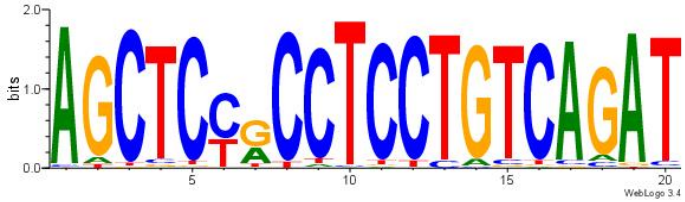

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147299

Alignment:

```
ATGATCCAGCAATYCCACTH
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

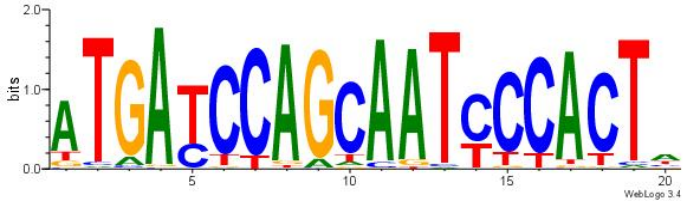

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

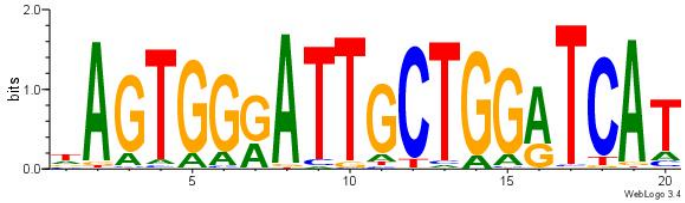

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14867

Alignment:

AACAACASACACTGGGGCCT
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

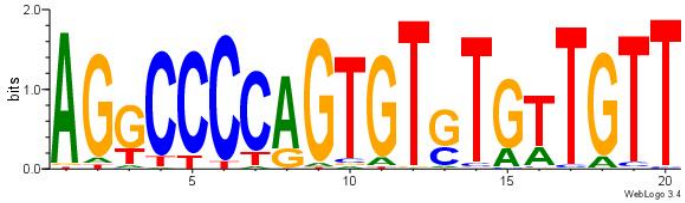

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

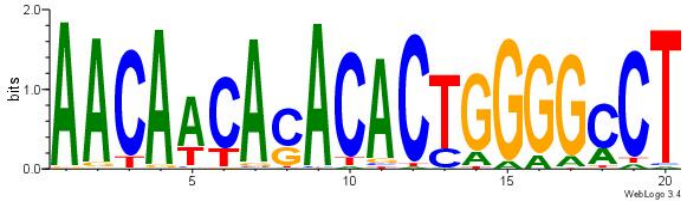

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149157

Alignment:
AGCTGTGAGAAGAGGGCCAC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

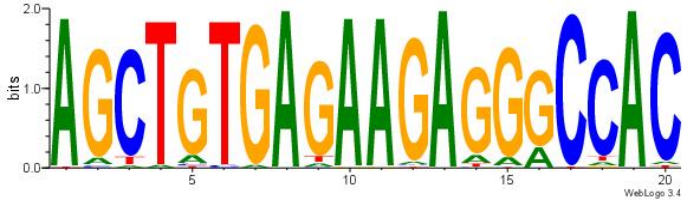

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

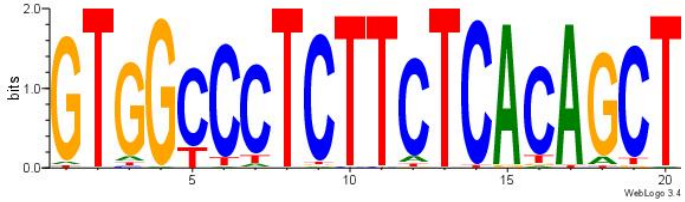

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149229

Alignment:
GCCKCCCCGTCCGGGAGGGA
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

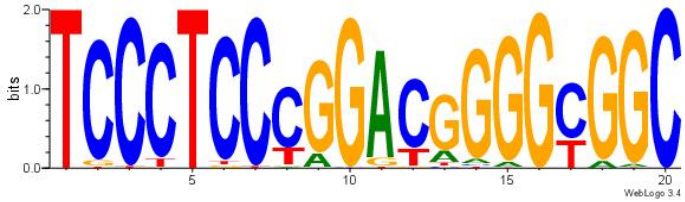

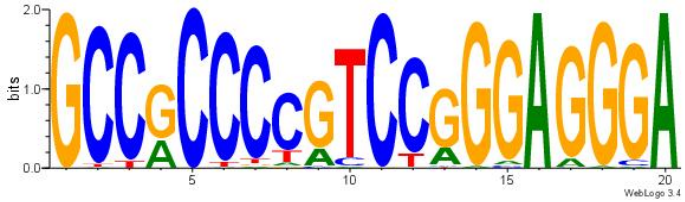

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149314

Alignment:
TWTACCTATGTAACAAACCT
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

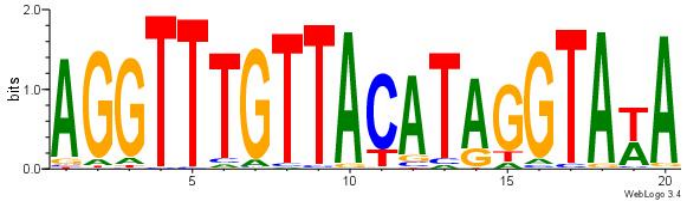

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

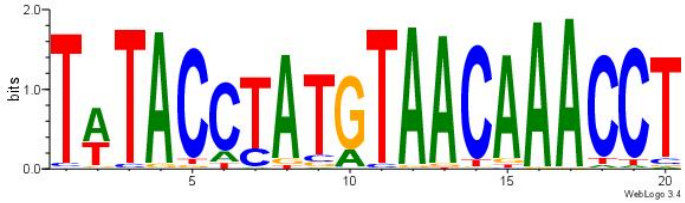

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149422

Alignment:

```
TCKMGCCACTGCACTCCAGC
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

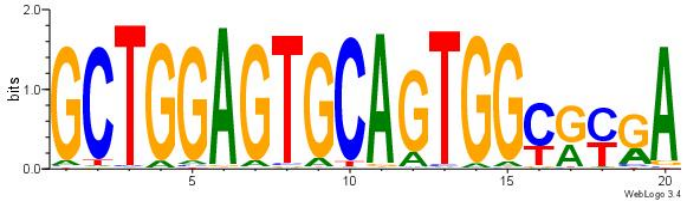

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

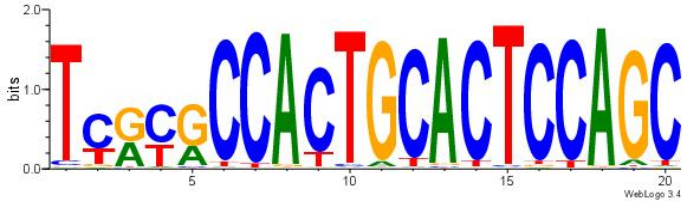

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150219

Alignment:
CTGGGCRACAGAGYRAGACY
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

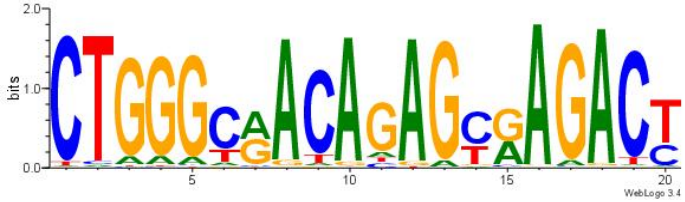

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

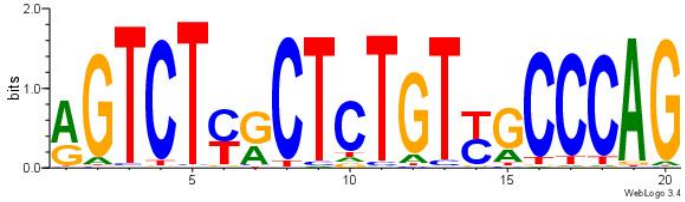

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150277

Alignment:
GCCTCCTTGAGCTGTGGTGG
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

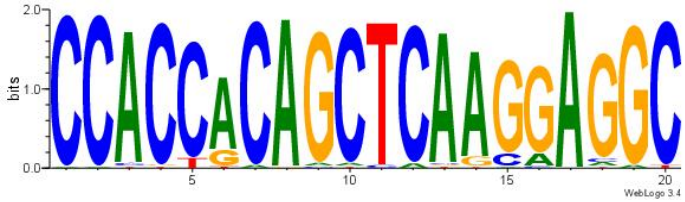

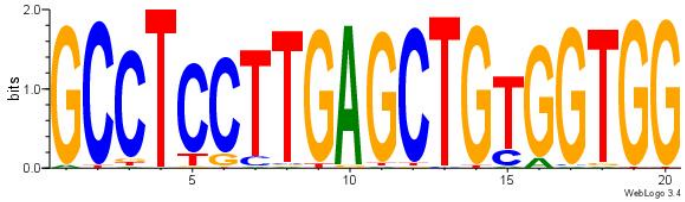

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150901

Alignment:

```
AAGCTCGAACTGGGTGGAGC
GAAACTGCTTTGTGATGTGT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

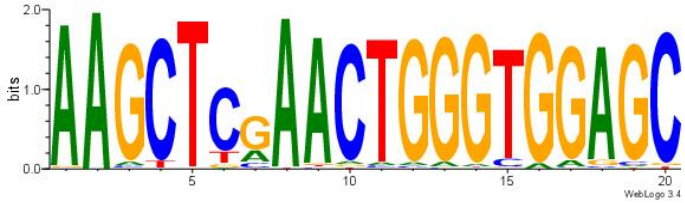

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

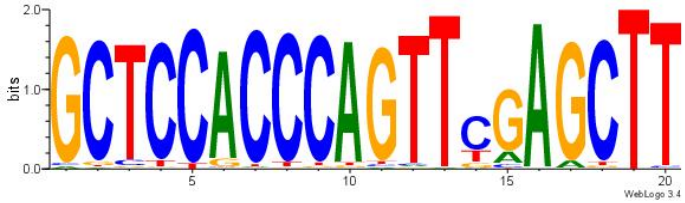

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151977

Alignment:

```
AAGTTCTKGGKTACATGTGC
GAAACTGCTTTGTGATGTGT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

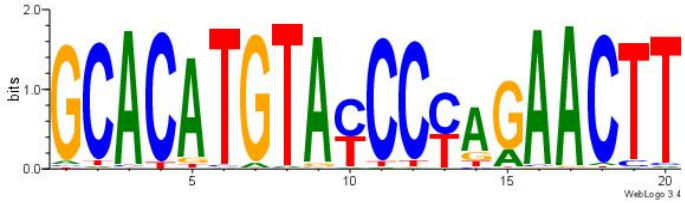

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

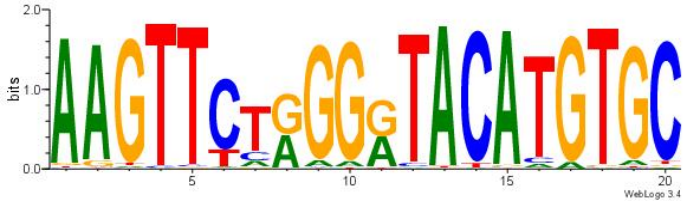

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153281

Alignment:
TTCAMTCATGATTTGGCTCT
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

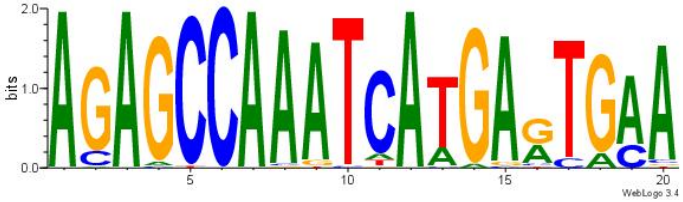

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

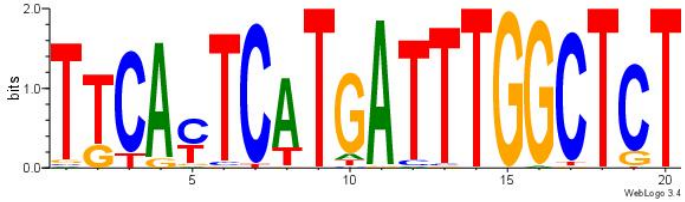

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154505

Alignment:
AAGCTGAGGGAGCCGGCTCC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

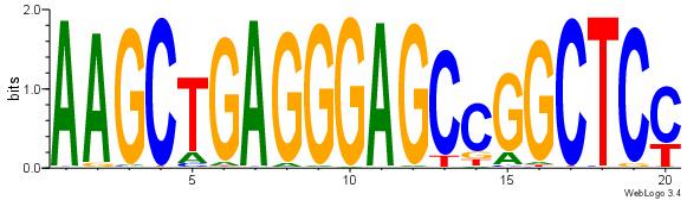

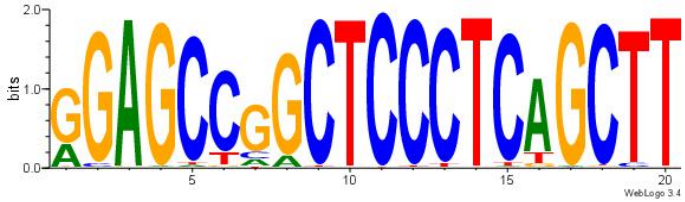

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154645

Alignment:
CCGCTGCACTGTGGGAGCCC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

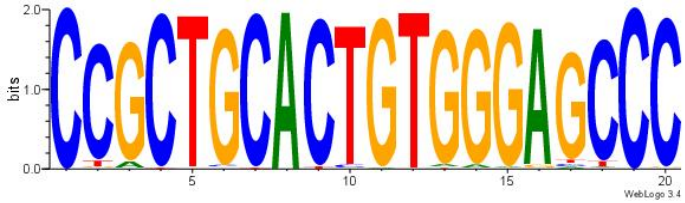

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

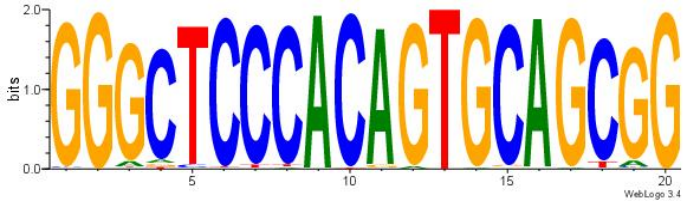

Dataset #: 1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154781

Alignment:

```
AAATTACCCAGTCTCAGGTA
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

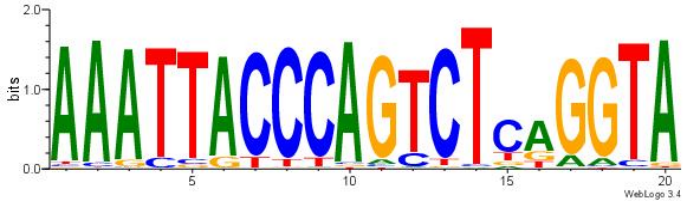

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

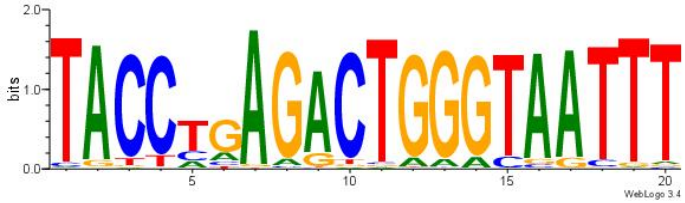

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154959

Alignment:
AAAATCACAAGCATTCCTAT
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

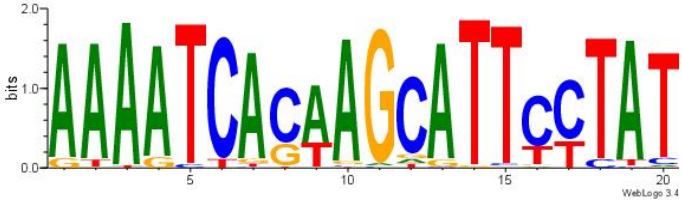

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

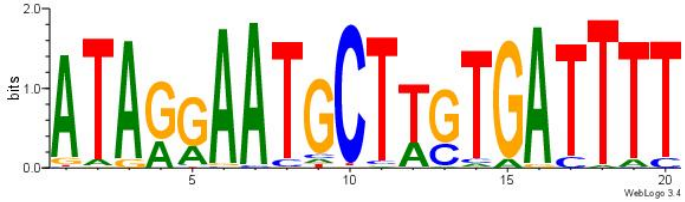

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155047

Alignment:
GCTGGCCCGCAAGCGCCGCG
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

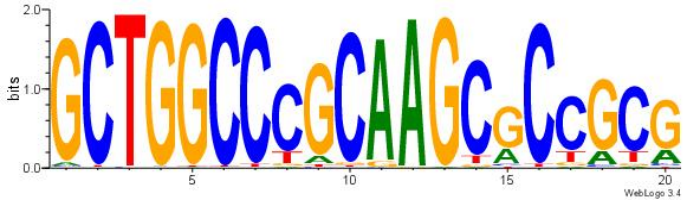

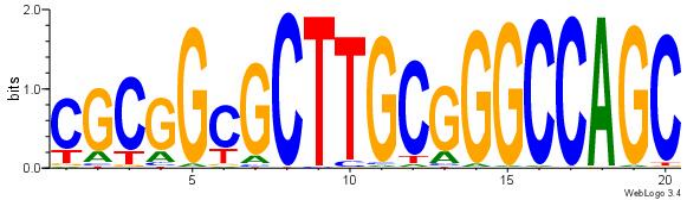

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155105

Alignment:

```
AAGTCCAAGATCAAGGTGYY
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

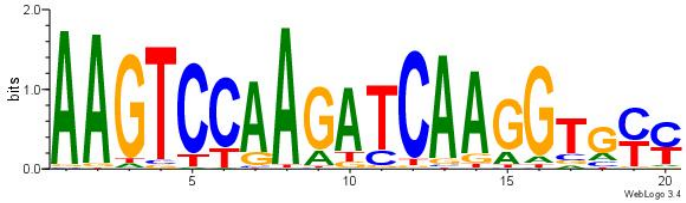

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

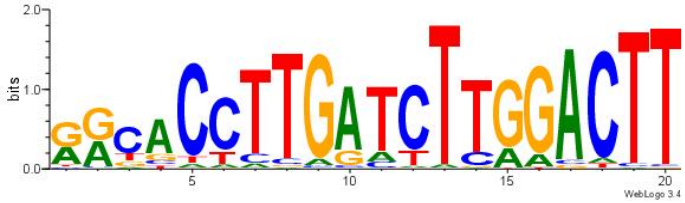

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156002

Alignment:
GCGCTCKTCGGGGAGGCTCG
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

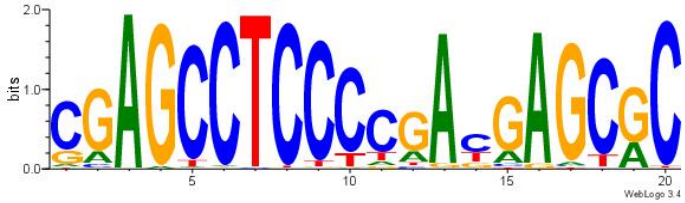

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

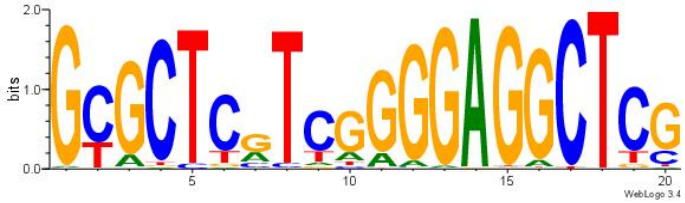

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156201

Alignment:
ACCKTCGCGGTGAGTGTTAC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

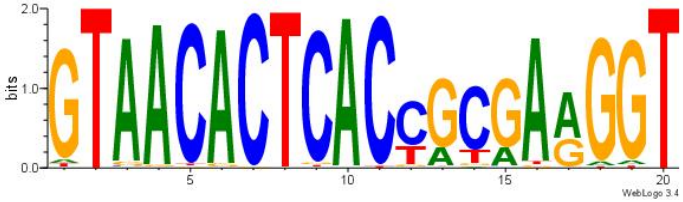

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

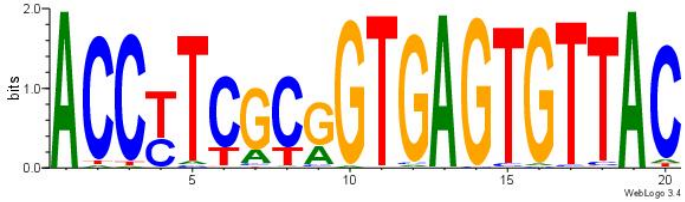

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15703

Alignment:
AAAATGTGGTAYATAYAYAC
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

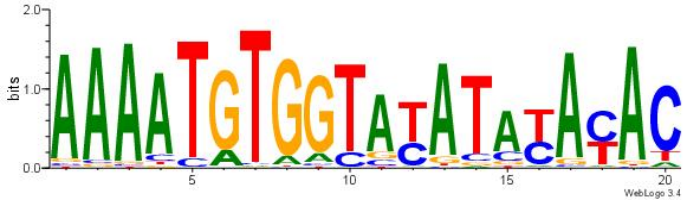

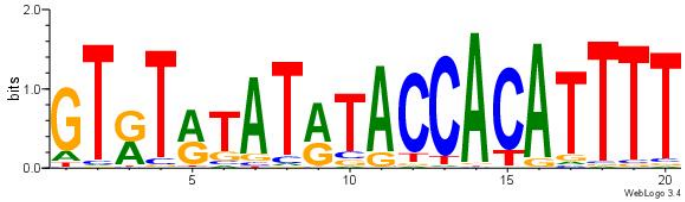

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157427

Alignment:

```
CAGCTACTCKTATACCCTTG
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

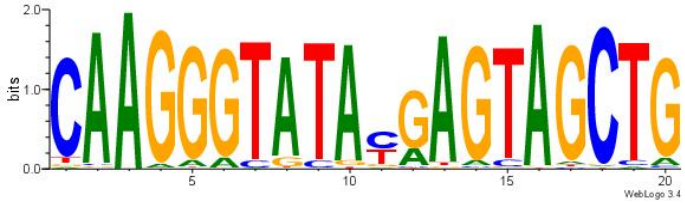

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

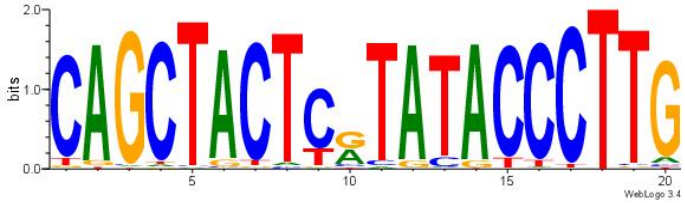

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157517

Alignment:

```
AAGACCTTCCAGTGGGACAA
GAAACTGCTTTGTGATGTGT
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

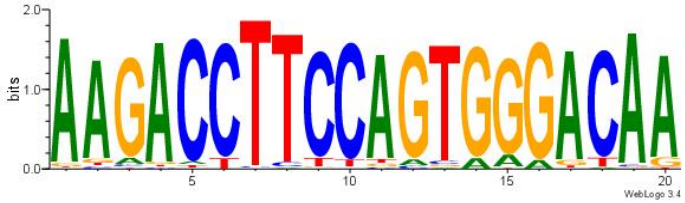

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

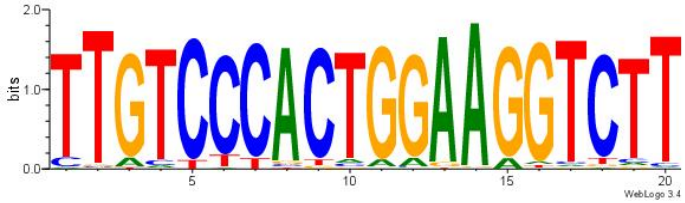

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157861

Alignment:
AGTAGGTGCTCARTAAATRB
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

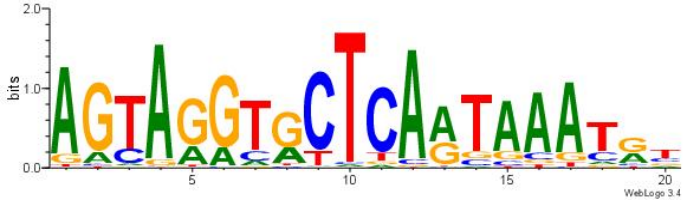

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

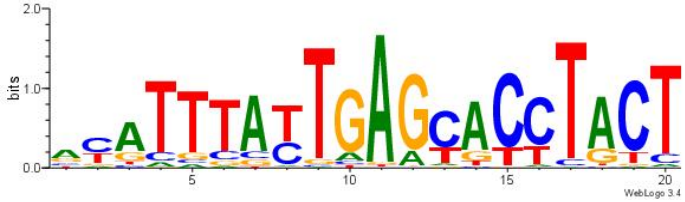

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15814

Alignment:
GCCAATTTCTCCCATTTGGA
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

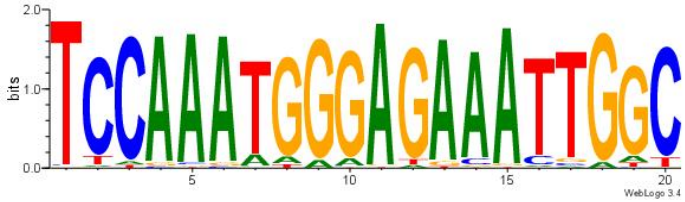

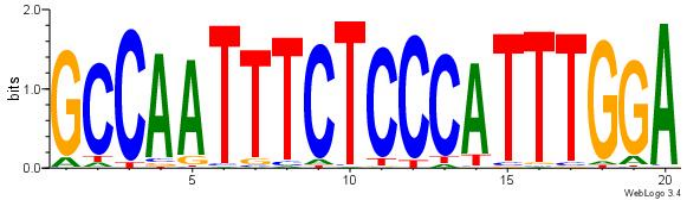

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158426

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
ACACATCACAAAGCAGTTTC
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

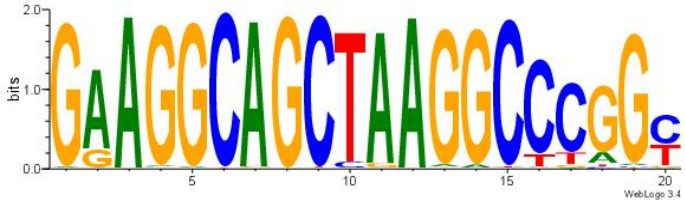

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

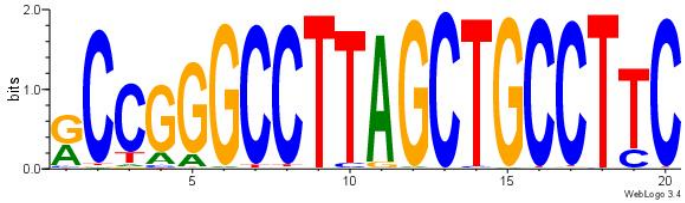

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159181

Alignment:
GAGAGAGAGAGAGAGAGAGA
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

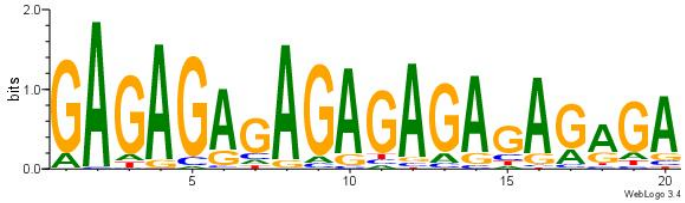

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

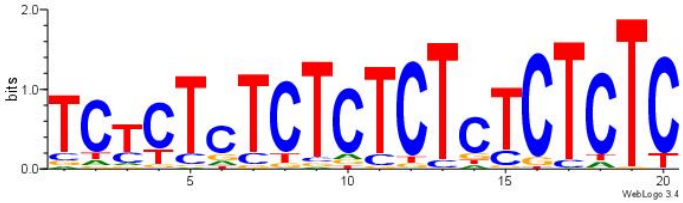

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160199

Alignment:
CMTAGYACAGTGCCTGGCAC
GAAACTGCTTTGTGATGTGT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

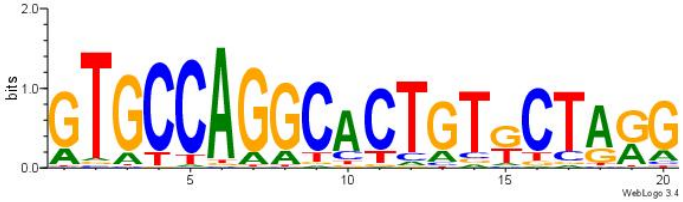

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

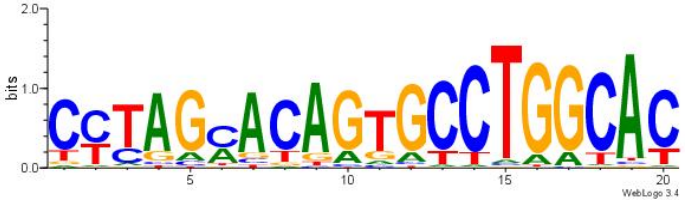

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.160382

Alignment:
AGGTCCTTCAGGAGGTATTC
ACACATCACAAAGCAGTTTC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

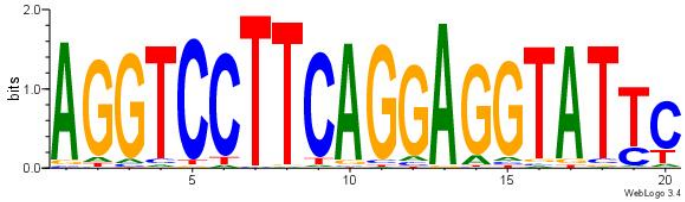

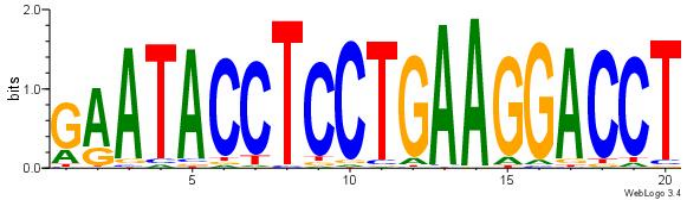

Dataset #: 1 Motif ID: 203 Motif name: Motif 203

Original motif Consensus sequence: CCATGGCGTCC

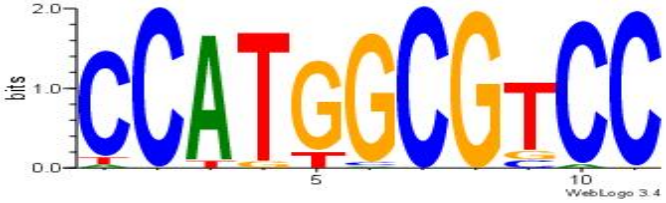

Reverse complement motif Consensus sequence: GGACGCCATGG

Best Matches for Motif ID 203 (Highest to Lowest)

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0640975

Alignment:

```
GGGASCACATGG
-GGACGCCATGG
```

Original motif Consensus sequence: CCATGTGSTCCC

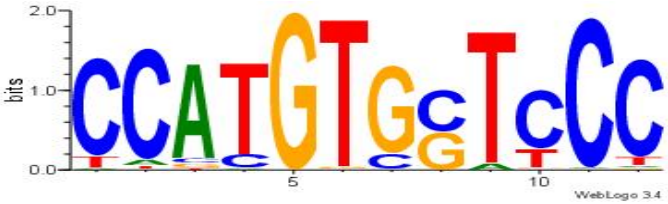

Reverse complement motif Consensus sequence: GGGASCACATGG

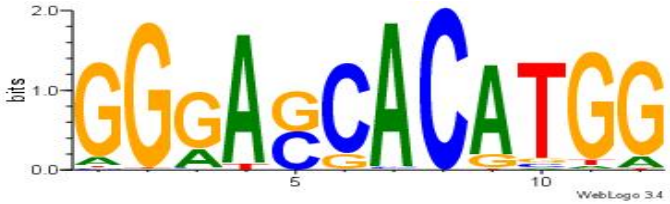

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0662761

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-CCATGGCGTCC--------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

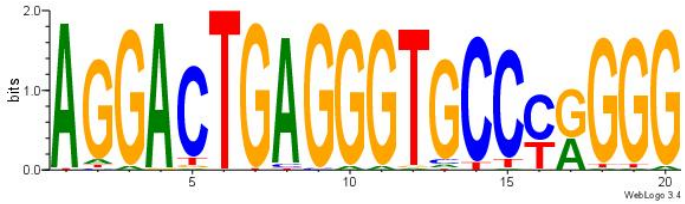

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

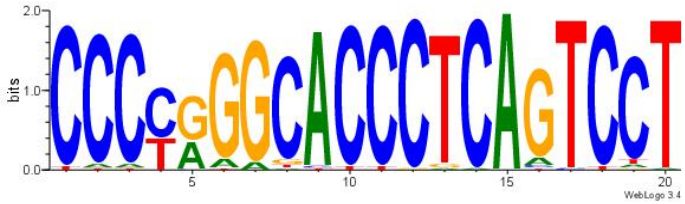

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.066425

Alignment:

```
CCTCCGTGGGCTCC
---CCATGGCGTCC
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

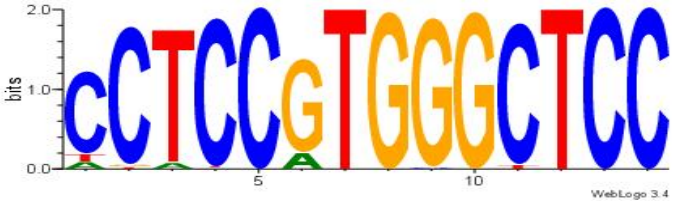

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

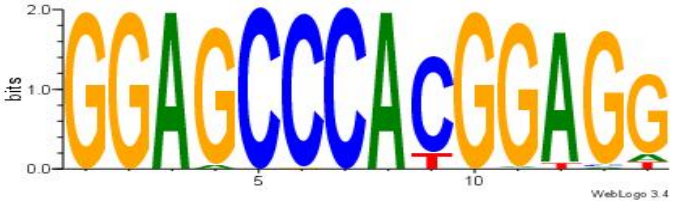

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0668759

Alignment:
TCAATGGTGCCCAG
--CCATGGCGTCC-

Original motif Consensus sequence: CTGGGCACCATTGA

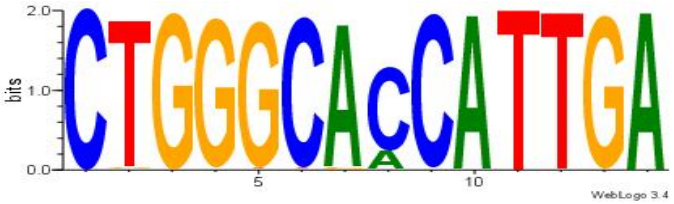

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

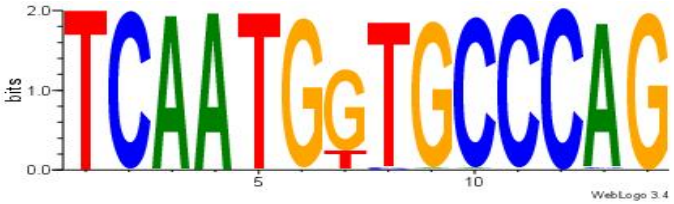

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.071383

Alignment:
CCTTTGACTCCATGTC
----GGACGCCATGG-

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

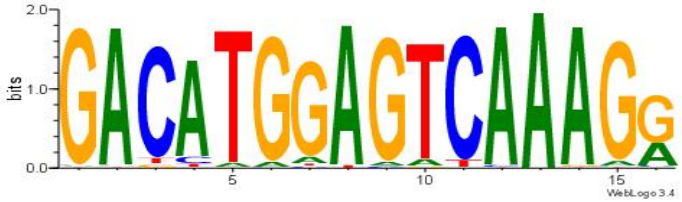

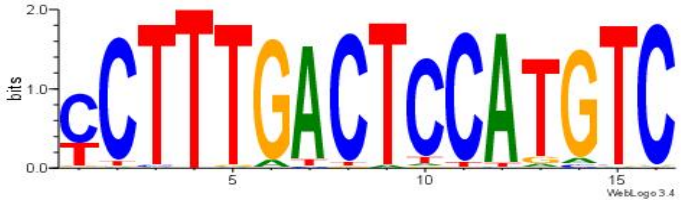

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0719902

Alignment:

```
CCTCRGCCTCC
CCATGGCGTCC
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	206

Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0724132

Alignment:

```
GCTCCWGTGYGKCC
---CCATGGCGTCC
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

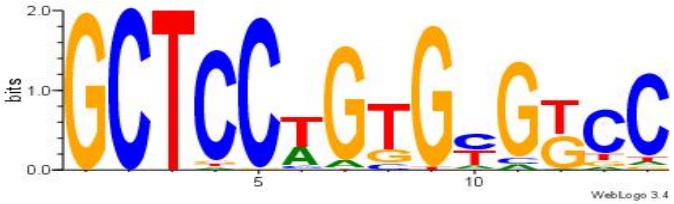

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0728411

Alignment:
GAGACTCCGTGGGCGT
-GGACGCCATGG----

Original motif Consensus sequence: ACGCCCACGGAGTCTC

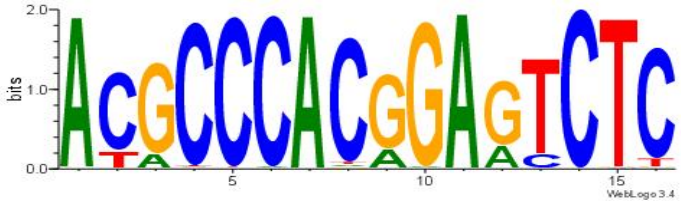

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

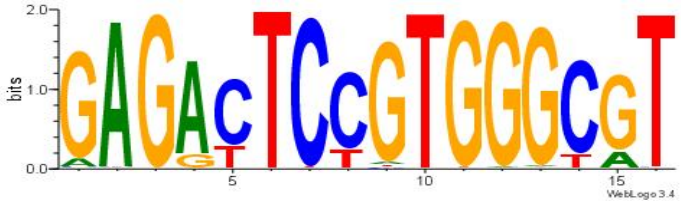

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.075398

Alignment:
GCCRGCCCTGCYGGCC
-----CCATGGCGTCC

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

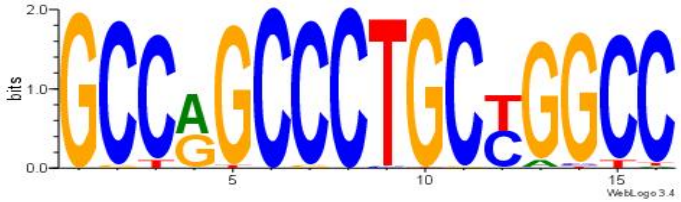

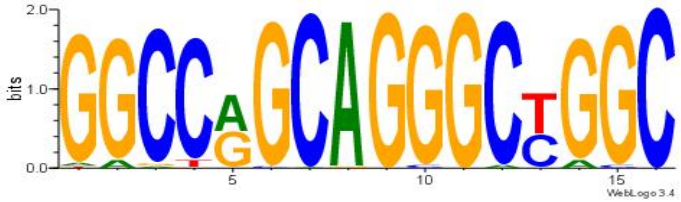

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0754905

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
---CCATGGCGTCC------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

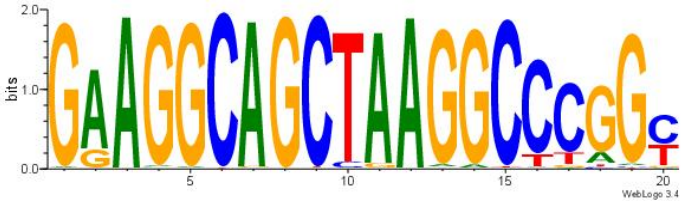

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

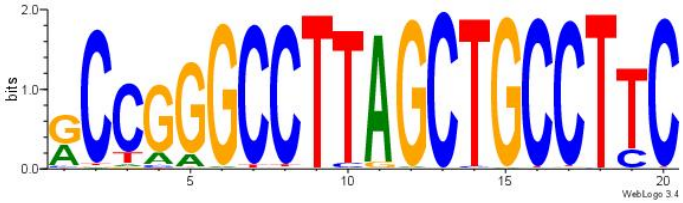

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0801384

Alignment:

```
CCCACGCCCACCCGGAACT
-------CCATGGCGTCC-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

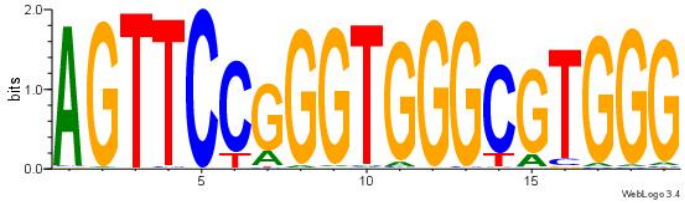

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

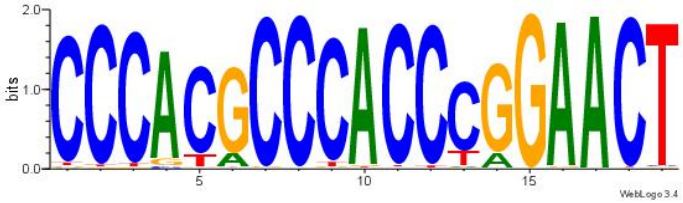

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0820338

Alignment:
GCCKGGMKCMGTGGCTCAKG
---GGACGCCATGG------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

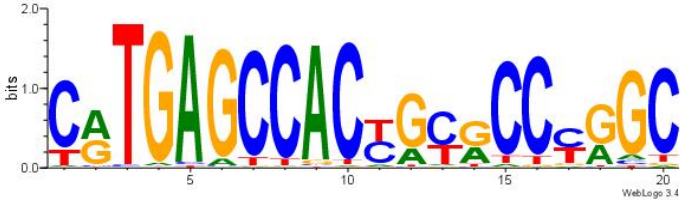

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

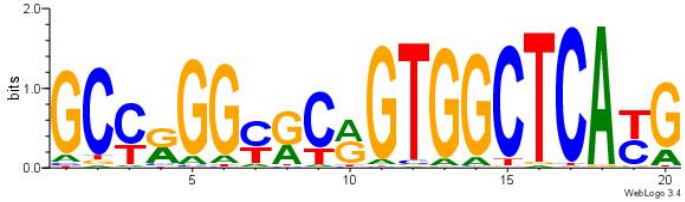

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0834673

Alignment:
TCAATGGGCTCCCAAATG
-CCATGGCGTCC------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

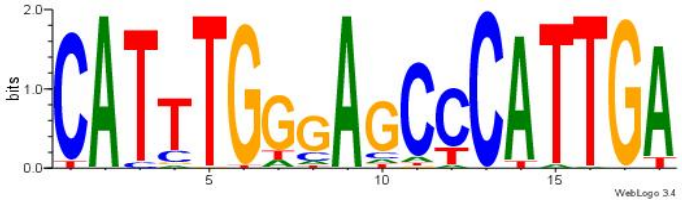

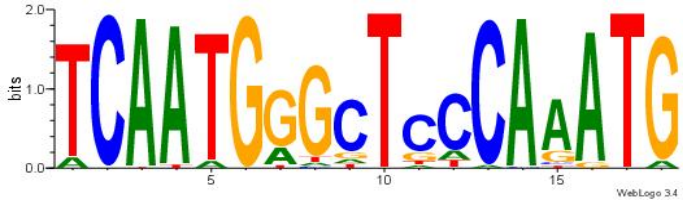

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0837643

Alignment:

```
HGCTCCTGTGSKCCC
----CCATGGCGTCC
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

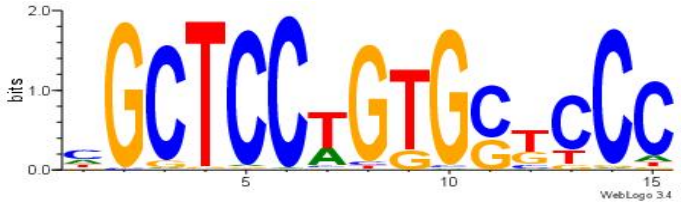

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0843692

Alignment:

```
AATCAACCCTGGYRATCAAT
------CCATGGCGTCC---
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

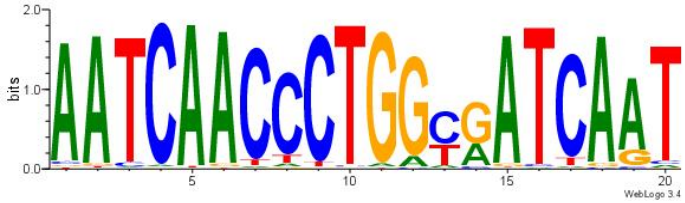

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

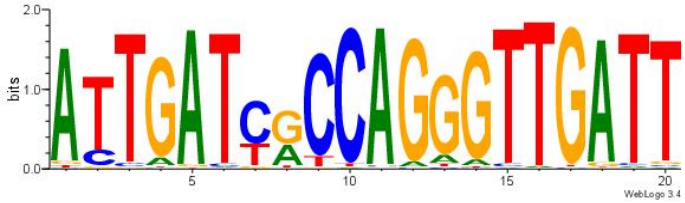

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0857831

Alignment:
AGAAAGGCATGTGAAAA
-GGACGCCATGG-----

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

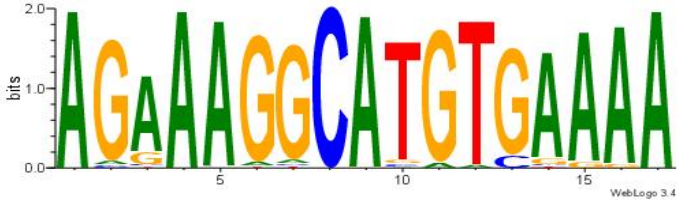

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

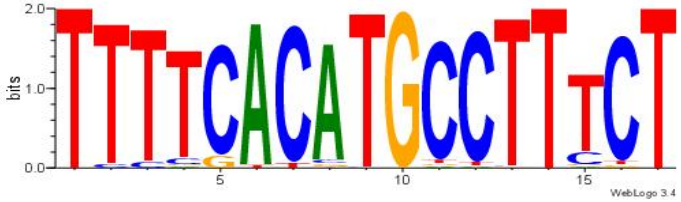

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0863517

Alignment:
GTTTAACCATTGAGGGCCAG
------CCATGGCGTCC---

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

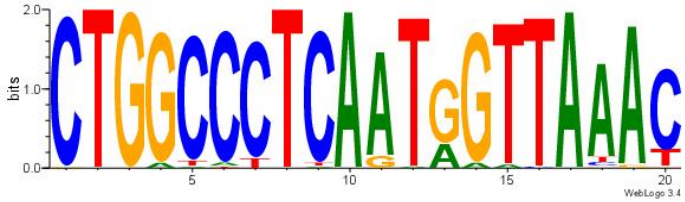

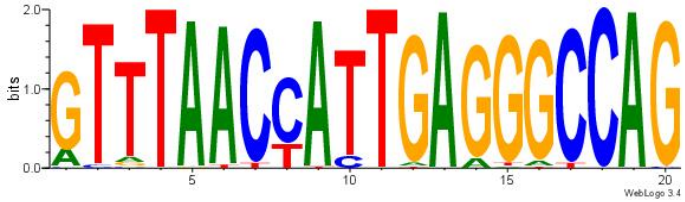

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0880277

Alignment:

```
ACAGGCTGTCCCAGGATTC
--------CCATGGCGTCC
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

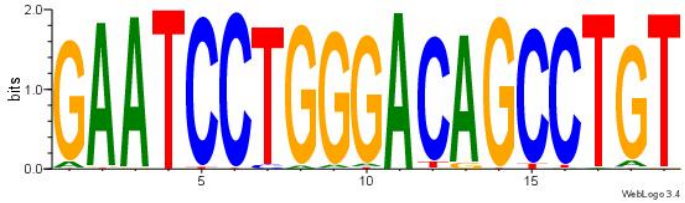

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

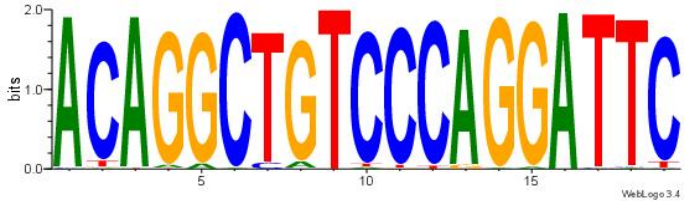

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0886699

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
--------CCATGGCGTCC-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

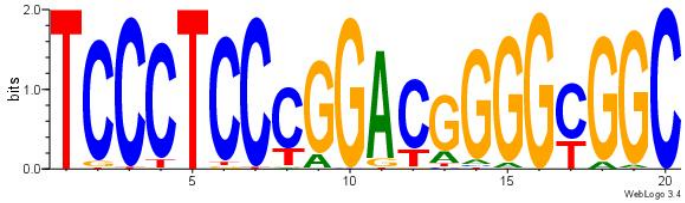

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

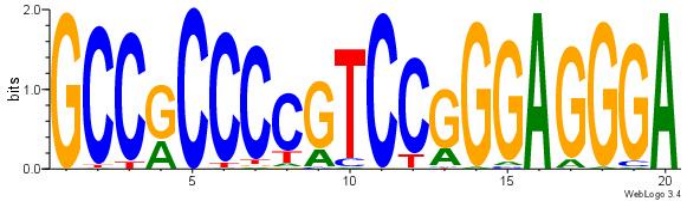

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0894213

Alignment:
CCTTGGCCAGCCCAGAAAG
CCATGGCGTCC--------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

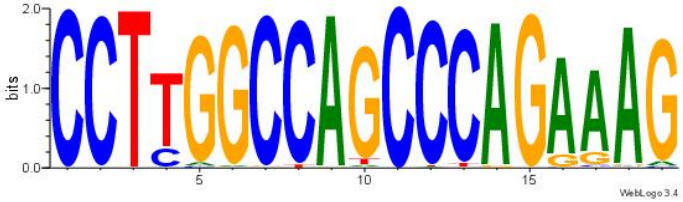

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

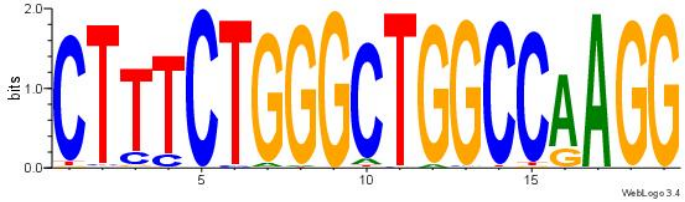

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 11
Similarity score: 0.089939

Alignment:
AWTKKTGGTTKCCAGKGGCT
------GGACGCCATGG---

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

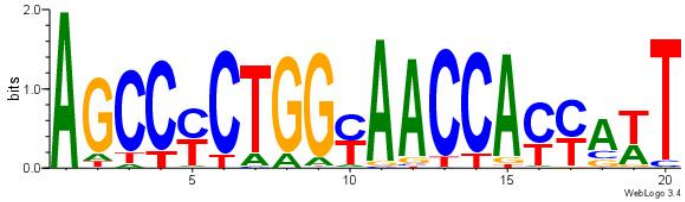

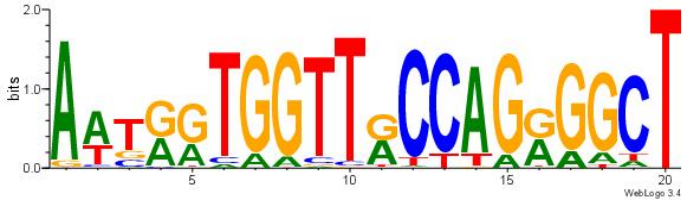

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.090947

Alignment:

```
GGATCCACTGGGTGAAGCCA
---------GGACGCCATGG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

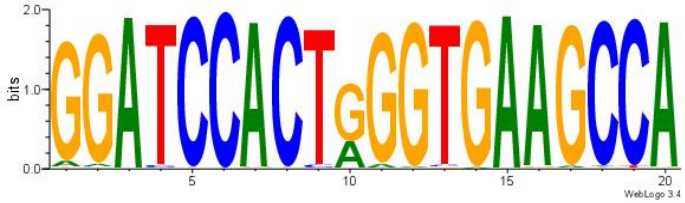

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

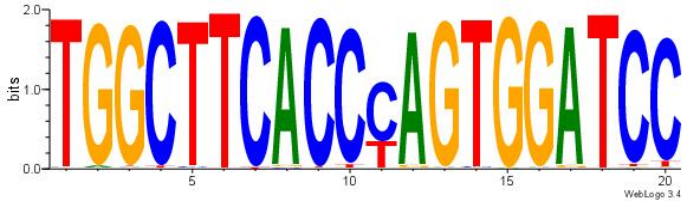

Dataset #: 1

Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0913559

Alignment:

```
AGCCTAGGCCTAC
--CCATGGCGTCC
```

Original motif Consensus sequence: AGCCTAGGCCTAC

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

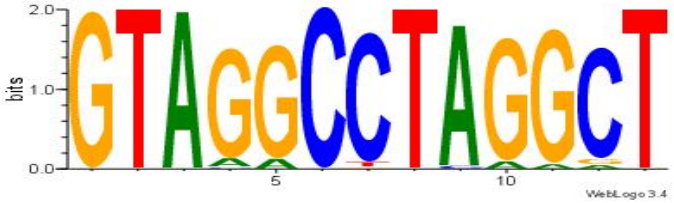

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0926384

Alignment:
TGTCCATGTGTTCTC
---CCATGGCGTCC-

Original motif Consensus sequence: GAGAACACATGGACA

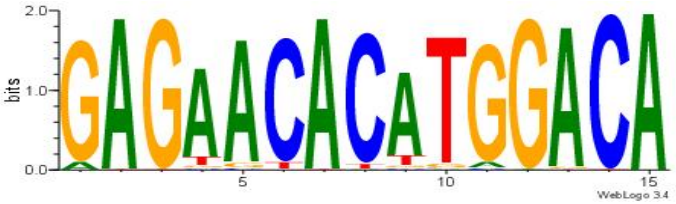

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

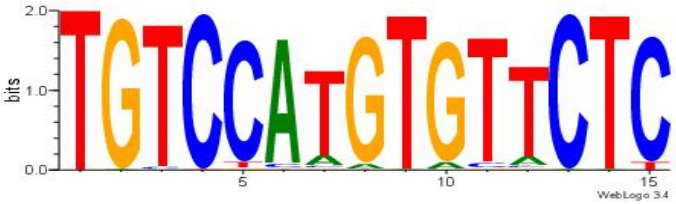

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0941065

Alignment:
GAAAGGGAACTCCCTGACCC
---GGACGCCATGG------

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

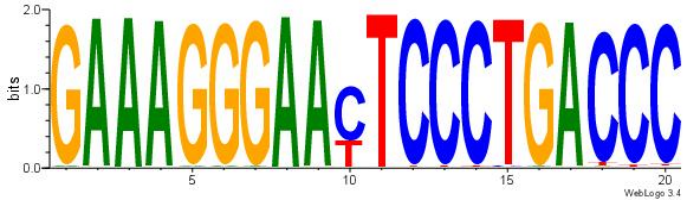

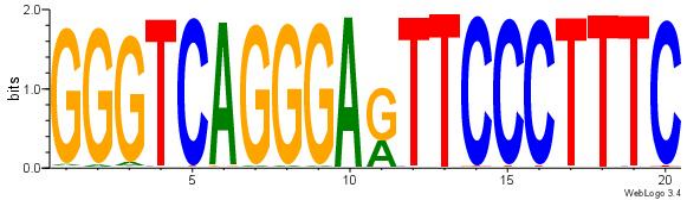

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0946229

Alignment:

```
CAGCCAGATCRSCC
---CCATGGCGTCC
```

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

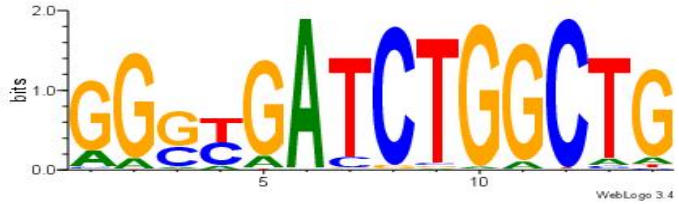

Dataset #:	1
Motif ID:	26

Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0946651

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
---GGACGCCATGG------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

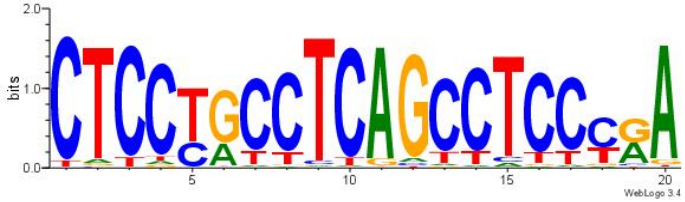

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

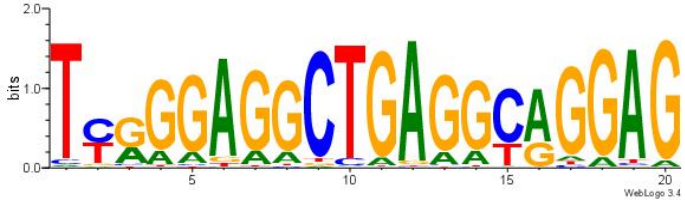

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0955483

Alignment:
GAAHCAACCKAAKTGTCCAT
--CCATGGCGTCC-------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

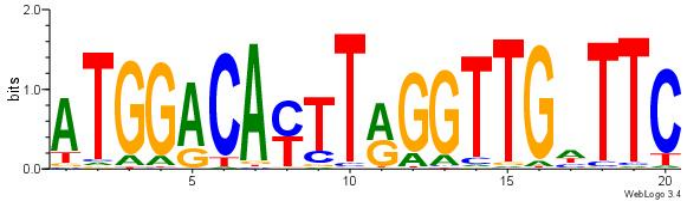

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

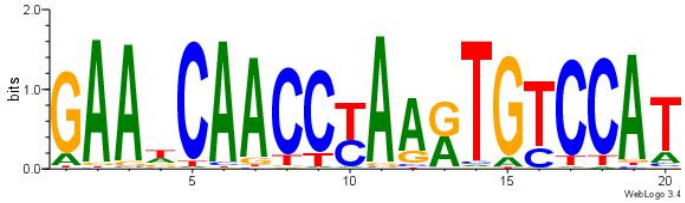

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.096231

Alignment:
ACGTCACTTCCG
CCATGGCGTCC-

Original motif Consensus sequence: CGGAAGTGACGT

Reverse complement motif Consensus sequence: ACGTCACTTCCG

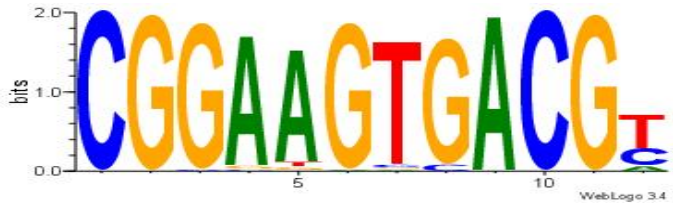

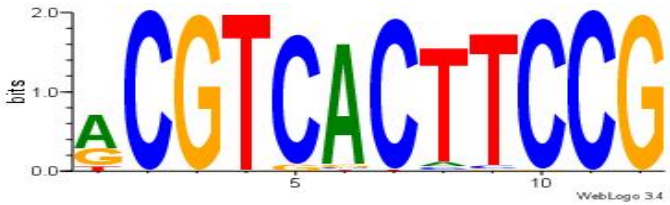

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0969732

Alignment:

```
GCCACCAMGCCMKGCTAAT
-------CCATGGCGTCC-
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

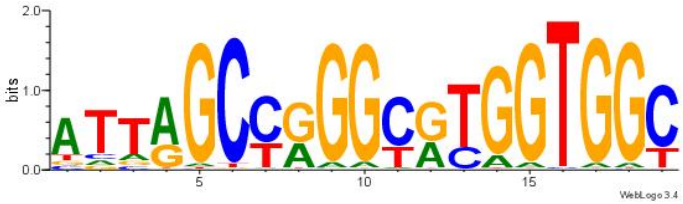

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

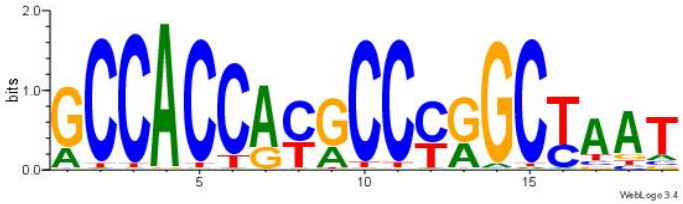

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0969882

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
--CCATGGCGTCC-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

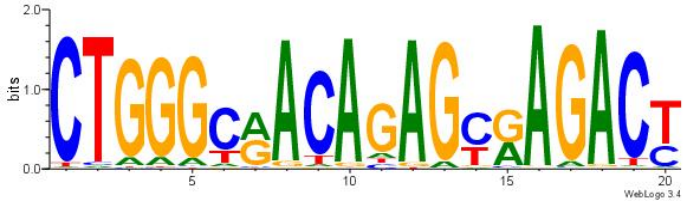

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

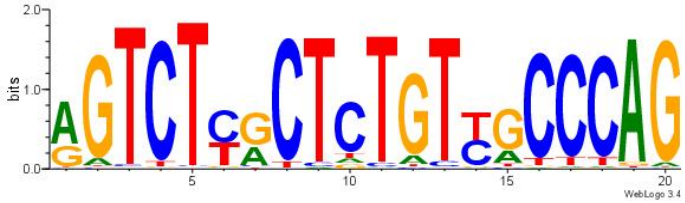

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0975506

Alignment:
CACTAGGGAGTGCC
--CCATGGCGTCC-

Original motif Consensus sequence: CACTAGGGAGTGCC

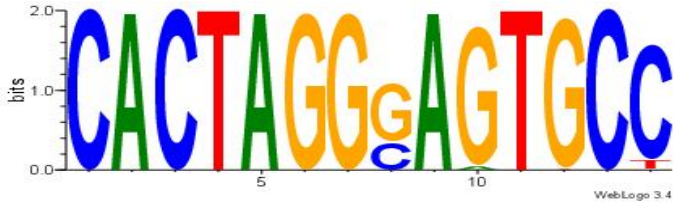

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

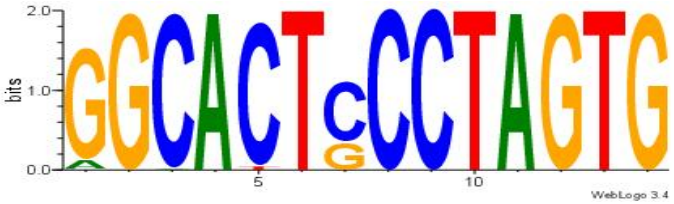

Dataset #: 1
Motif ID: 157
Motif name: Motif 157
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0979993

Alignment:
CCGCGCCGTGCGC
--CCATGGCGTCC

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

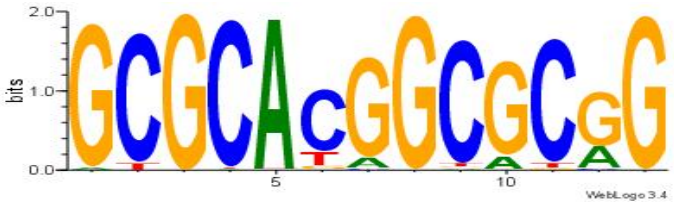

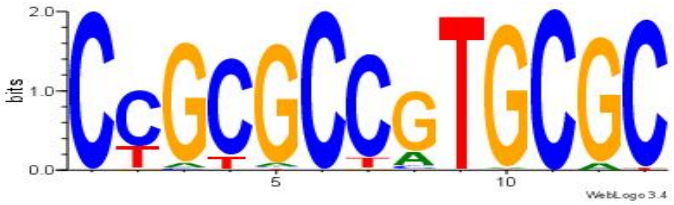

Dataset #:	1
Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0982778

Alignment:

```
GGCAGAGCTGGG
GGACGCCATGG-
```

Original motif Consensus sequence: CCCAGCTCTGCC

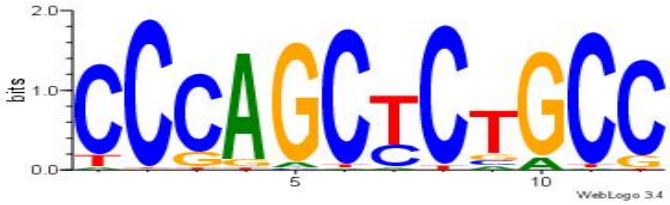

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Dataset #:	1
Motif ID:	221

Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0986229

Alignment:

```
GTGTCCCCTTCCTCCC
-----CCATGGCGTCC
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

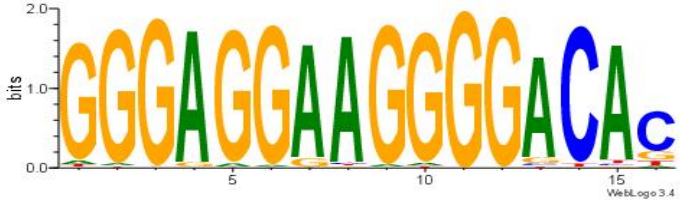

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

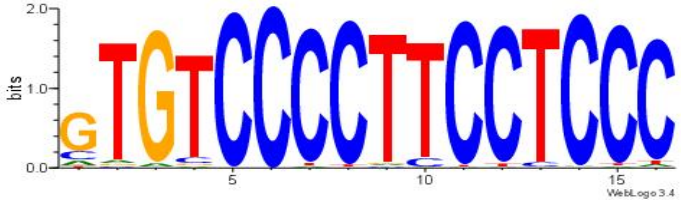

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0988993

Alignment:
GCTGGCCCGCAAGCGCCGCG
------GGACGCCATGG---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

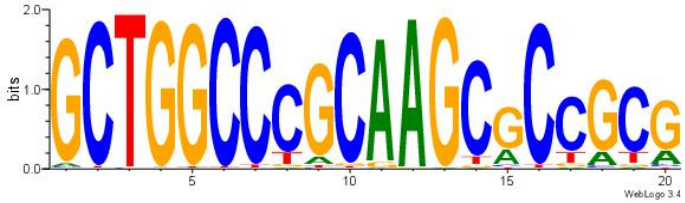

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

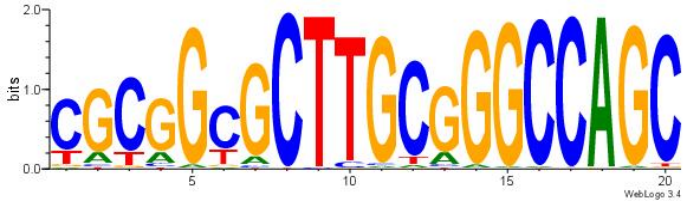

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0996019

Alignment:
TGCACTGCACCCAC
-CCATGGCGTCC--

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

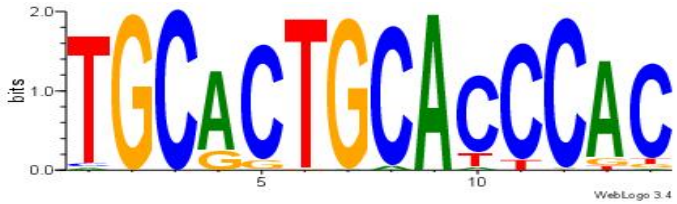

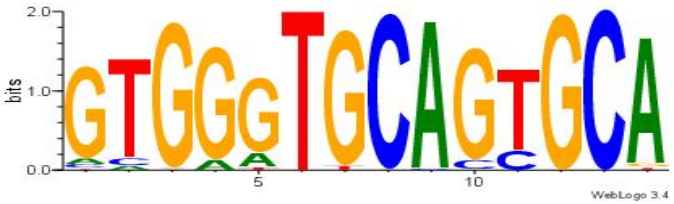

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0996829

Alignment:

```
TCKMGCCACTGCACTCCAGC
----CCATGGCGTCC-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

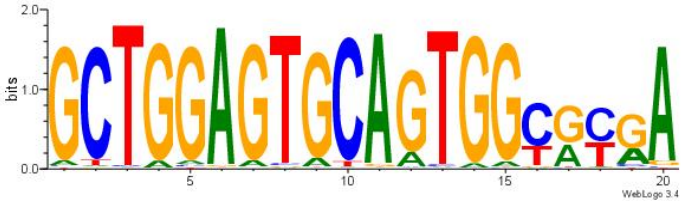

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

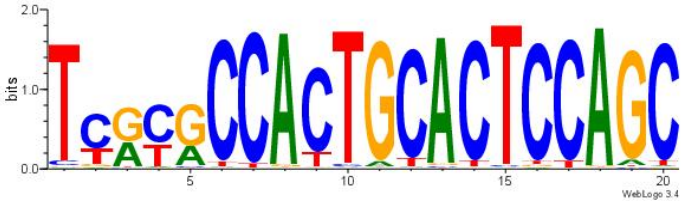

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.099787

Alignment:

```
ATACAATGGGGGTACAGRC
---CCATGGCGTCC-----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

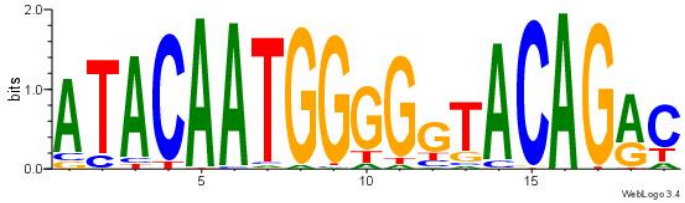

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

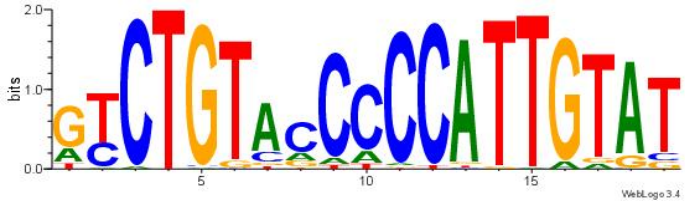

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0998487

Alignment:
GTCTGGMGTCTTGG
---GGACGCCATGG

Original motif Consensus sequence: CCAAGACYCCAGAC

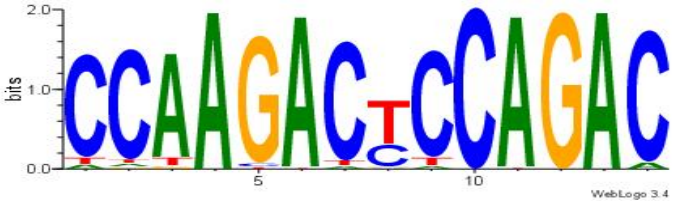

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

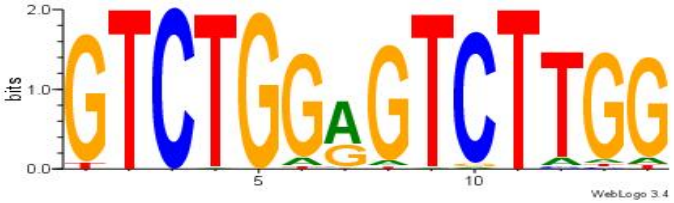

Dataset #: 1
Motif ID: 87
Motif name: Motif 87
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0998553

Alignment:
CATGTGTGTCC
CCATGGCGTCC

Original motif Consensus sequence: CATGTGTGTCC

Reverse complement motif Consensus sequence: GGACACACATG

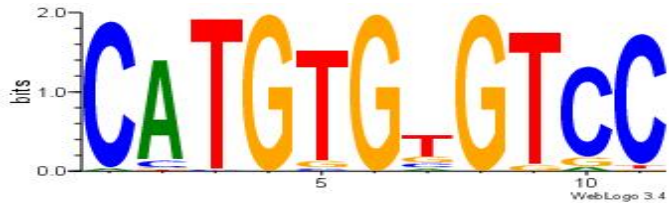

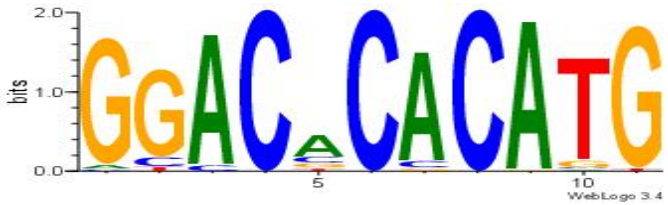

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0999552

Alignment:

```
CAGGCGGCTGGGAG
-GGACGCCATGG--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

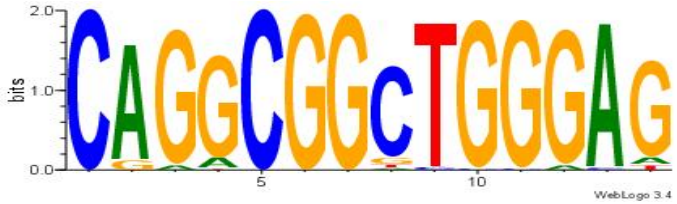

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

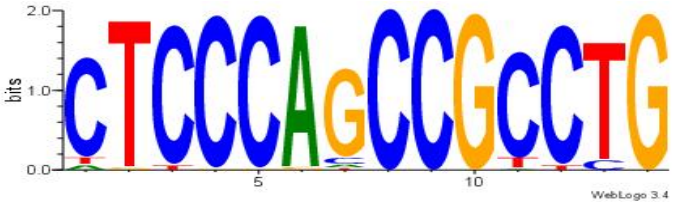

Dataset #:	1
Motif ID:	164

Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.100432

Alignment:

```
AGCCCCGGTTCCCGCYCGC
--CCATGGCGTCC------
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

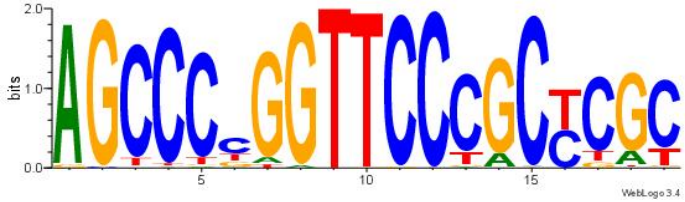

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

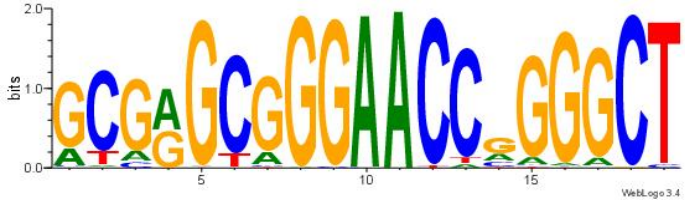

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.100537

Alignment:
CCTGCCATTGCYSAGGCTTG
----CCATGGCGTCC-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

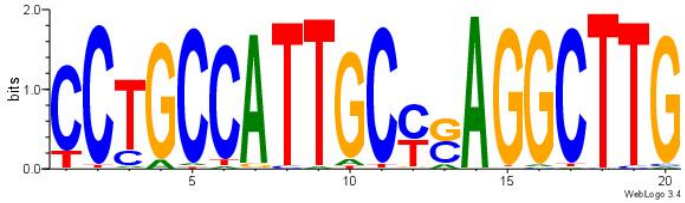

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

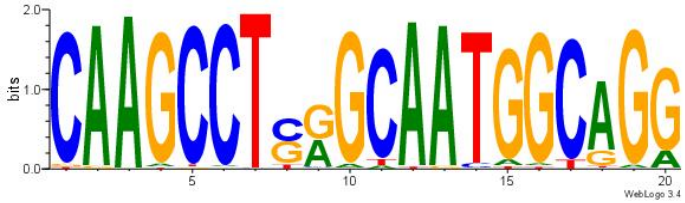

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.100848

Alignment:
AAGCAGGGCGAGGCATTGCC
--GGACGCCATGG-------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

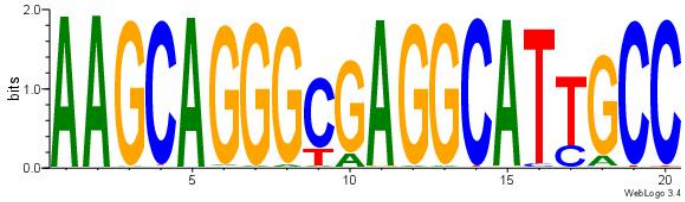

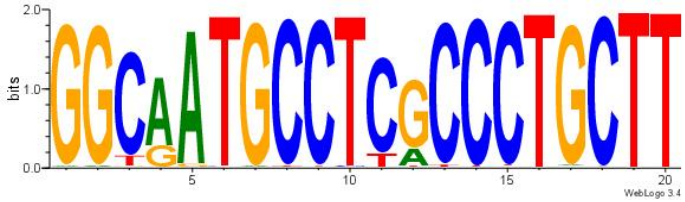

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.100961

Alignment:

```
CTCTTGTTGCCCAG
-CCATGGCGTCC--
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

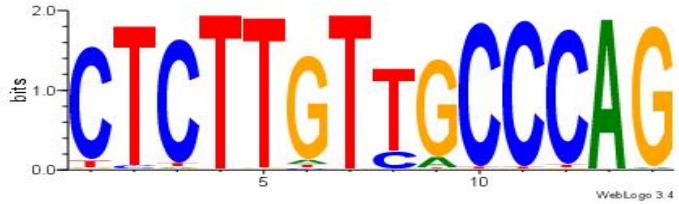

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

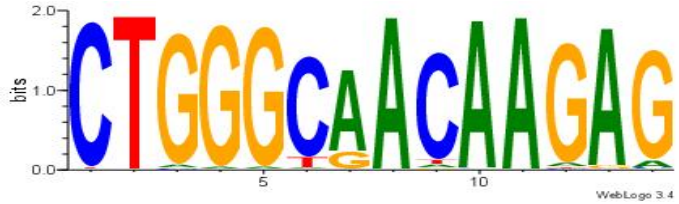

Dataset #:	1
Motif ID:	82

Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.101151

Alignment:

```
GCTGGCCCKGGTGCTAAGC
GGACGCCATGG--------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

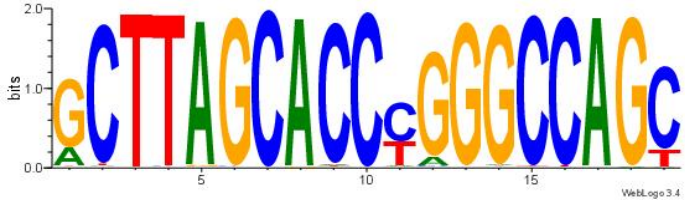

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

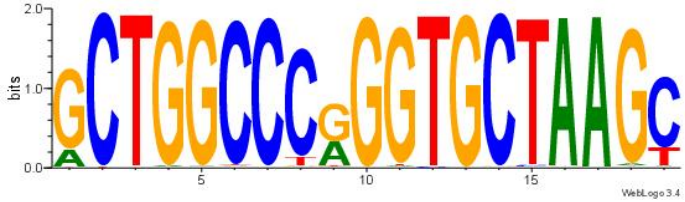

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.101422

Alignment:
CCCTCACTGCCCGGGG
CCATGGCGTCC-----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

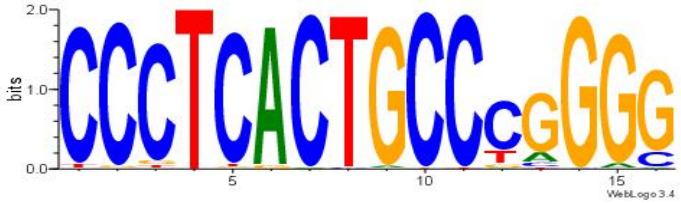

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

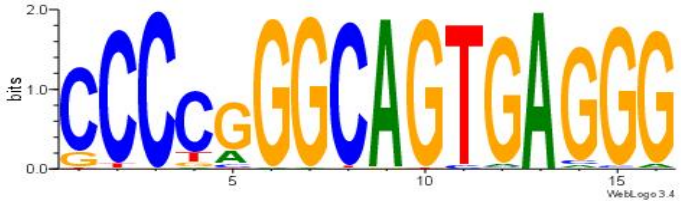

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101517

Alignment:
AGGAGCCCCTCHGCCCR
-----GGACGCCATGG-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

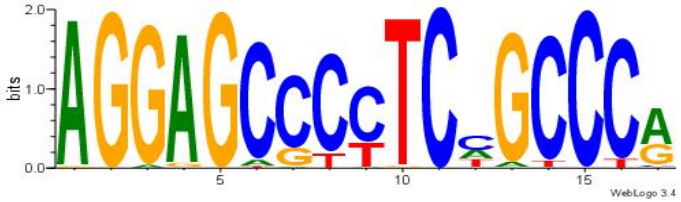

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.10163

Alignment:

```
GCGGCTGGCCGGGCG
--GGACGCCATGG--
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

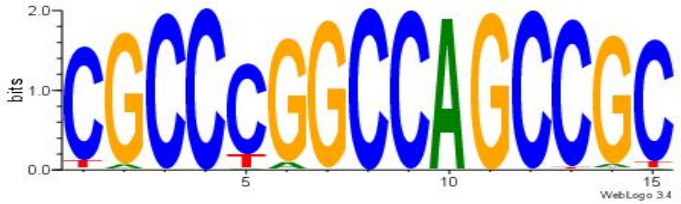

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

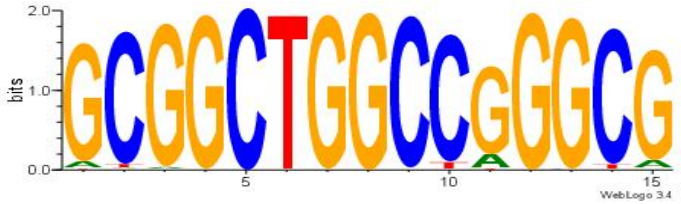

Dataset #: 1 Motif ID: 204 Motif name: Motif 204

Original motif Consensus sequence: AGAGYRAGACTCC

Reverse complement motif Consensus sequence: GGAGTCTMKCTCT

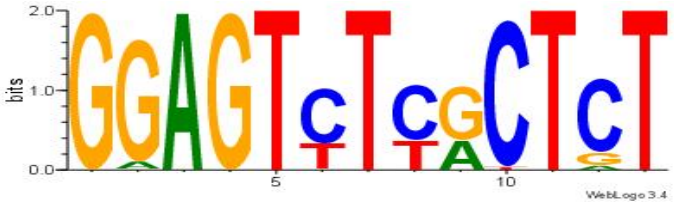

Best Matches for Motif ID 204 (Highest to Lowest)

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0513045

Alignment:

```
ACAGAGTGAGACTCT
--AGAGYRAGACTCC
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

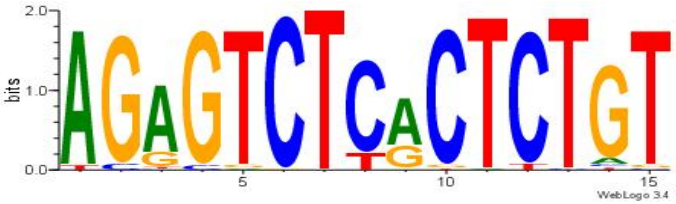

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

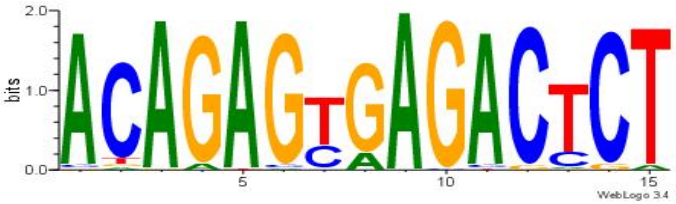

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0874128

Alignment:

```
CTCAGTGTTAATCTCCTGTC
---AGAGYRAGACTCC----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

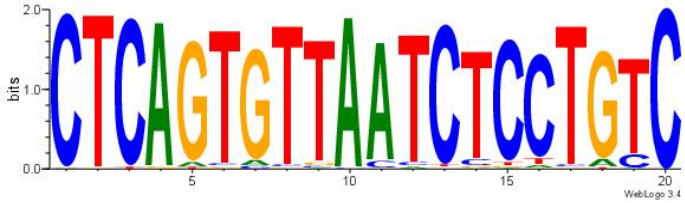

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

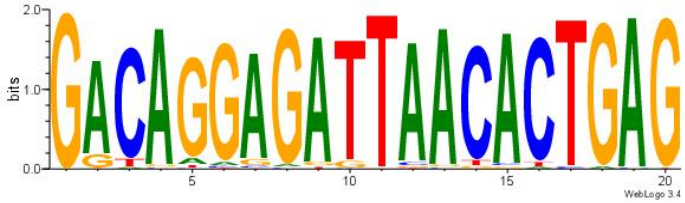

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 13
Similarity score: 0.0904804

Alignment:
TCTGGAGTGGACCTCCAGCA
---GGAGTCTMKCTCT----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

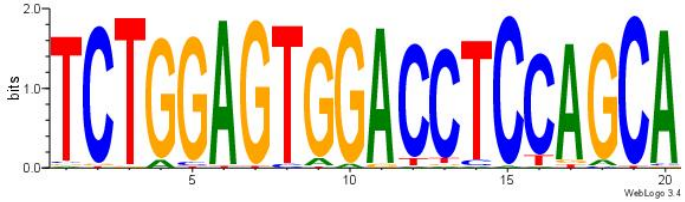

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

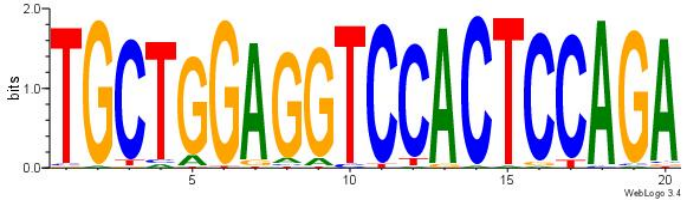

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.091609

Alignment:
TCAGGAGTGAAGCTGC
---AGAGYRAGACTCC

Original motif Consensus sequence: GCAGCTTCACTCCTGA

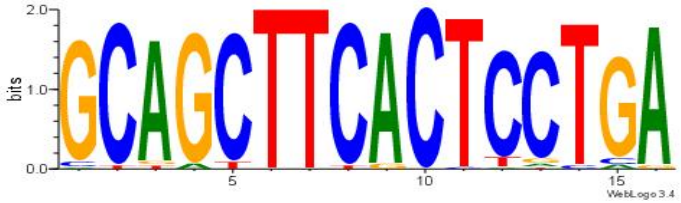

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

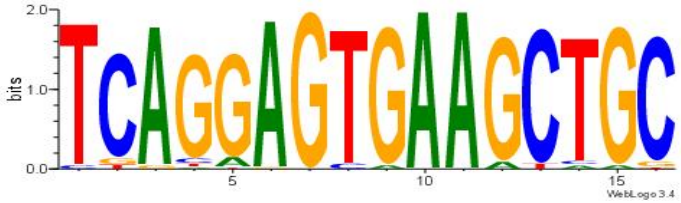

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.093082

Alignment:

```
AAGGAACAAACTCCRGACAC
-AGAGYRAGACTCC------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

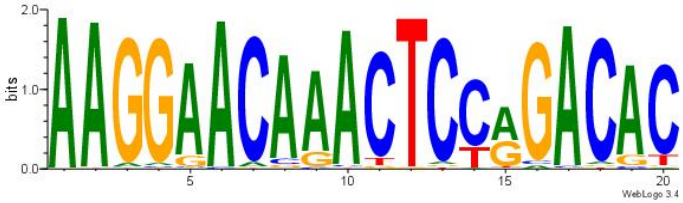

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

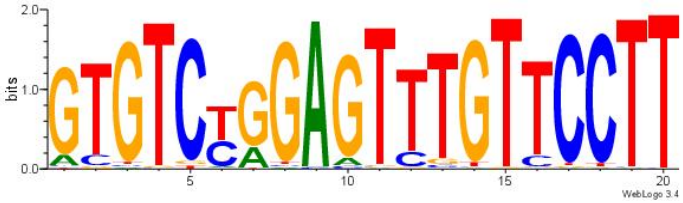

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0933445

Alignment:

```
GCACTCTGTMTCTAGCT
GGAGTCTMKCTCT----
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

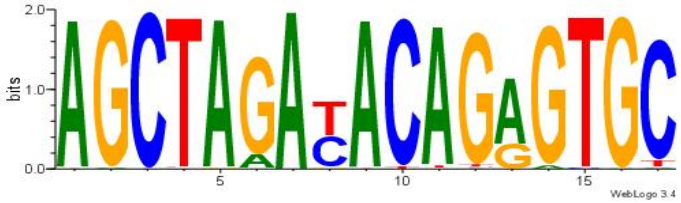

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

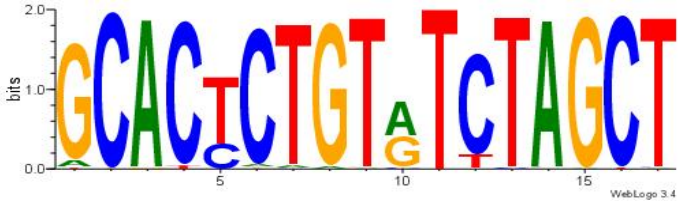

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 13
Similarity score: 0.0948189

Alignment:
GGGAGGTGTCTCCCAGTCAG
----GGAGTCTMKCTCT---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

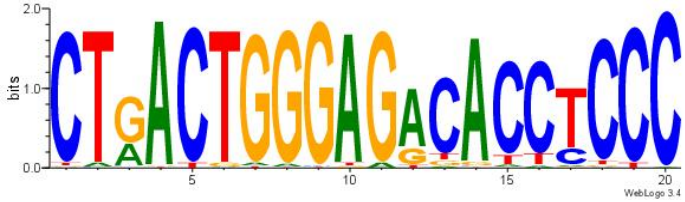

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

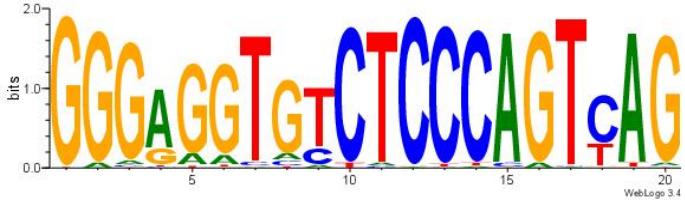

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0963427

Alignment:
TCTCTCTCTCTCTCTCTCTC
------GGAGTCTMKCTCT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

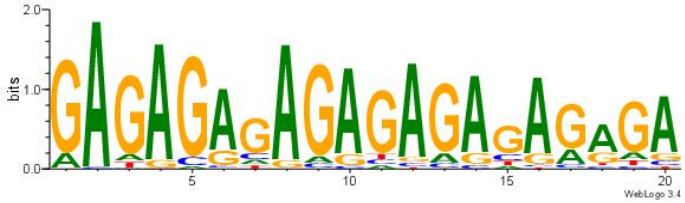

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

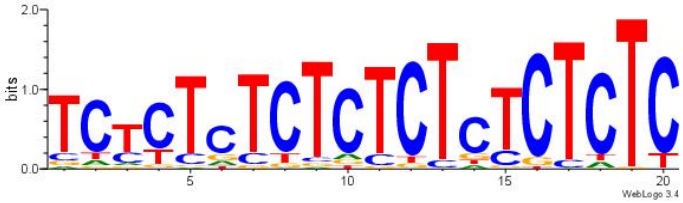

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0991122

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-GGAGTCTMKCTCT-----
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

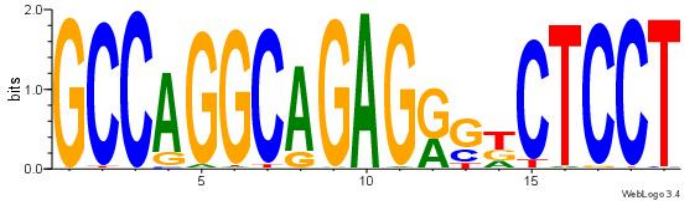

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

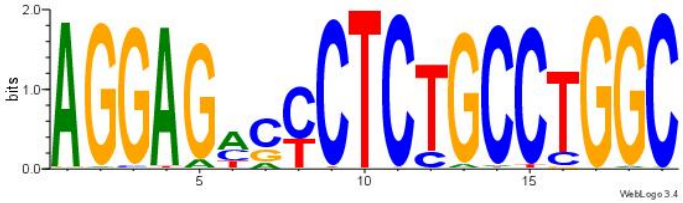

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.10007

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-GGAGTCTMKCTCT------
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

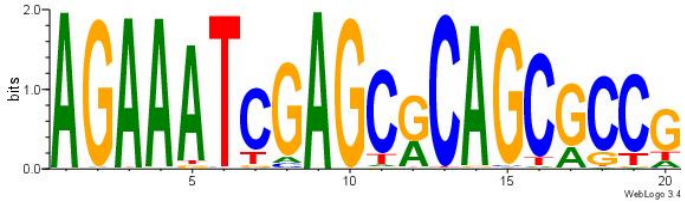

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

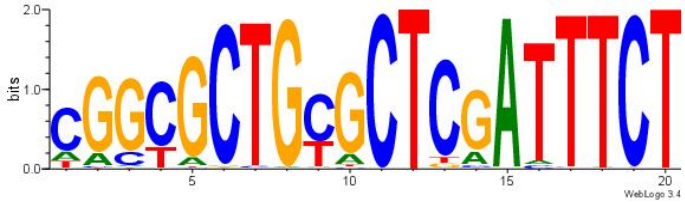

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.100091

Alignment:
TGGAGAACCTTTATGTCTAG
-GGAGTCTMKCTCT------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

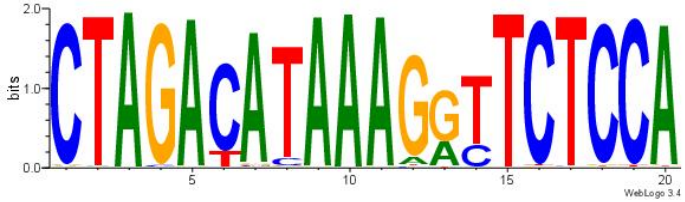

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

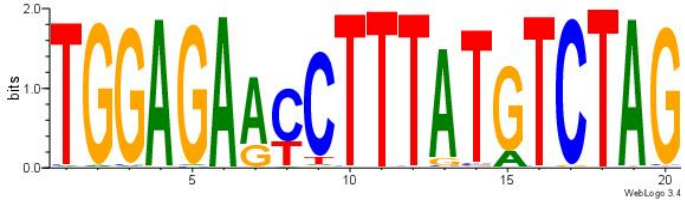

Dataset #: 1
Motif ID: 91
Motif name: Motif 91
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.100296

Alignment:
AGACYCYGTCTCAA
AGAGYRAGACTCC-

Original motif Consensus sequence: AGACYCYGTCTCAA

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

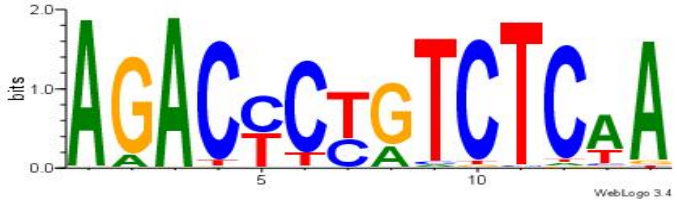

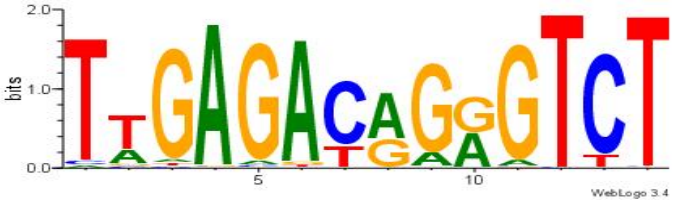

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.100967

Alignment:

```
CTTCGCTGACTCTCTTT
----GGAGTCTMKCTCT
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

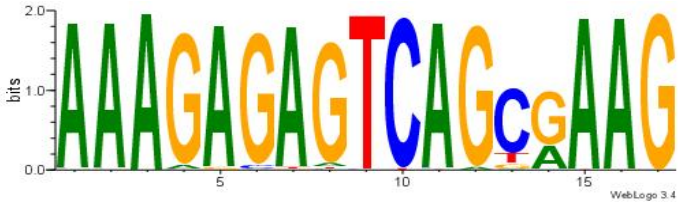

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

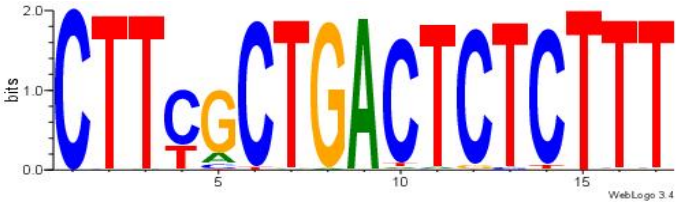

Dataset #: 1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.101643

Alignment:

```
GCCGGGRAGAGGCGCTCCT
-----GGAGTCTMKCTCT-
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

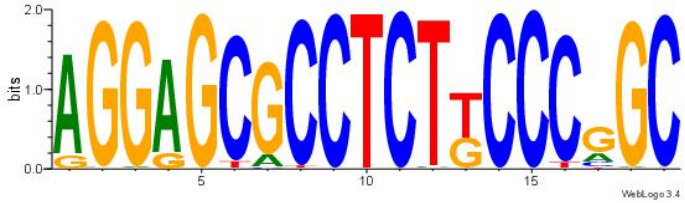

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

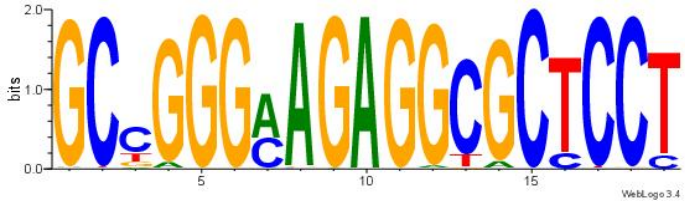

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.103155

Alignment:
AAGCAGGGCGAGGCATTGCC
----AGAGYRAGACTCC---

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

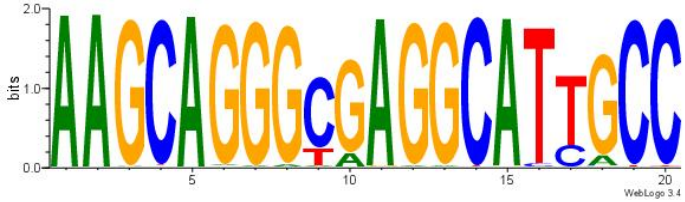

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

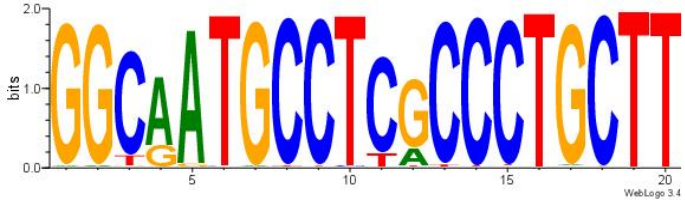

Dataset #: 1
Motif ID: 189
Motif name: Motif 189
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.103205

Alignment:
CAATGATAGACTGGAT
--AGAGYRAGACTCC-

Original motif Consensus sequence: ATCCAGTCTATCATTG

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

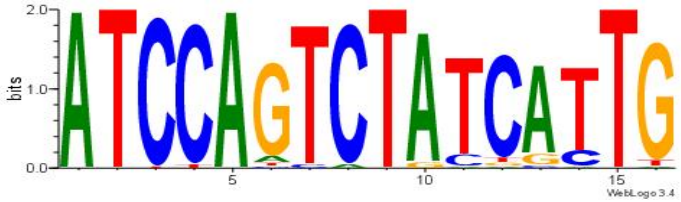

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.104969

Alignment:

```
TAGATAATAGCTCCAGCTTT
-AGAGYRAGACTCC------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

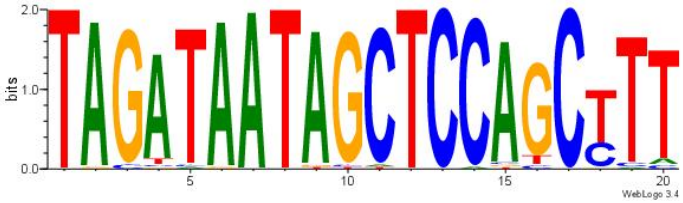

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

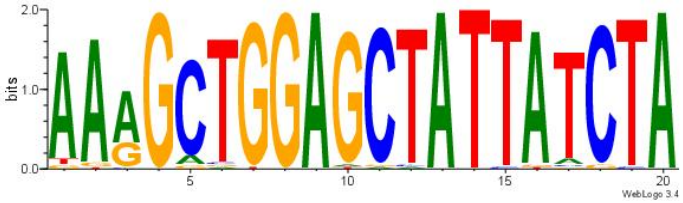

Dataset #: 1

Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.105006

Alignment:

```
GGAGGATCACKTGAG
GGAGTCTMKCTCT--
```

Original motif Consensus sequence: CTCARGTGATCCTCC

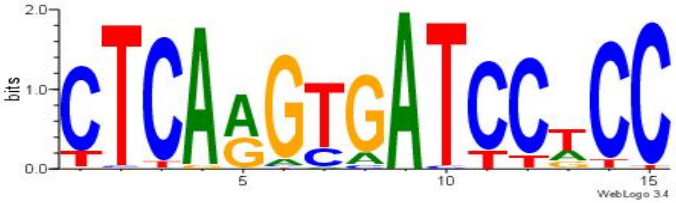

Reverse complement motif Consensus sequence: GGAGGATCACKTG

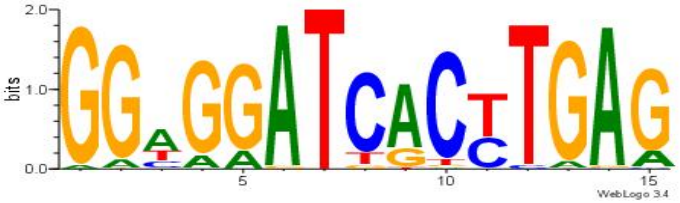

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.105293

Alignment:
MGGGATATAATCTCCTGGTG
-----AGAGYRAGACTCC--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

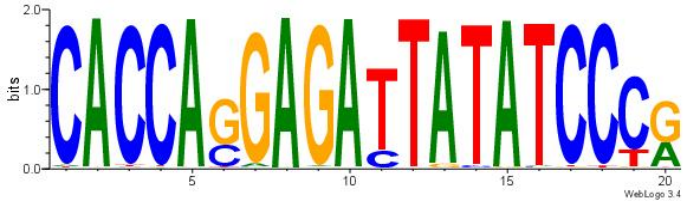

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

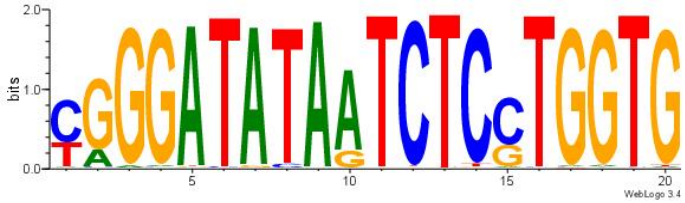

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106374

Alignment:
GCAGAGGCGCTCCT
-GGAGTCTMKCTCT

Original motif Consensus sequence: GCAGAGGCGCTCCT

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

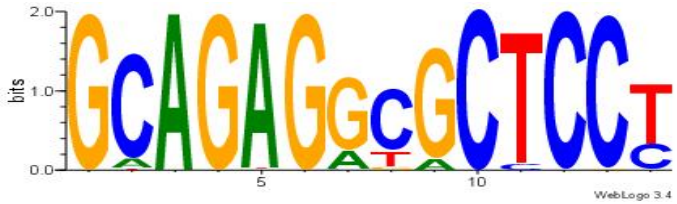

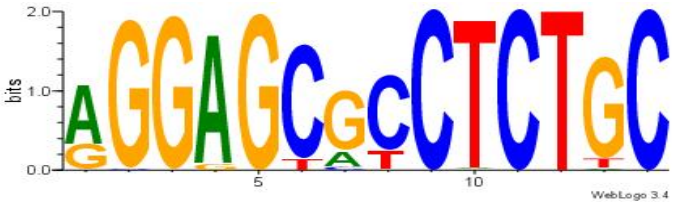

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.106671

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
---GGAGTCTMKCTCT----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

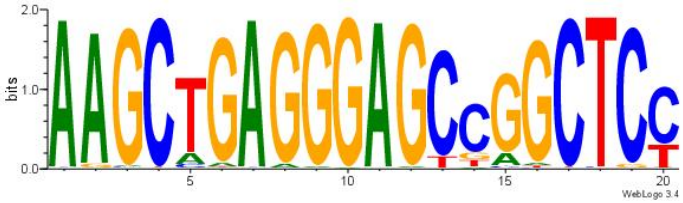

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

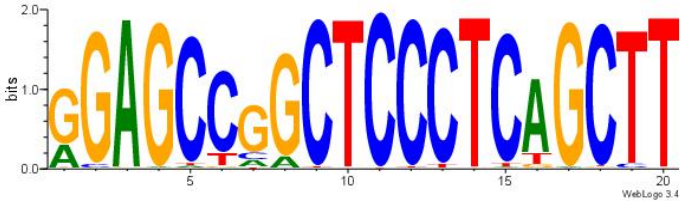

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10745

Alignment:

```
KGGGCDGAGGGGCTCCT
-AGAGYRAGACTCC---
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

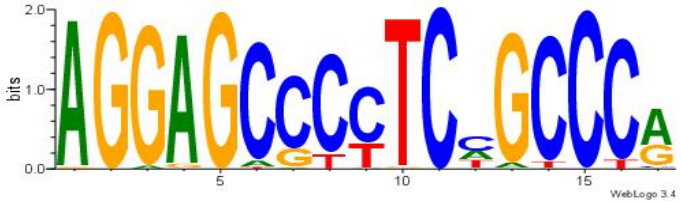

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.107687

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGAGTCTMKCTCT-------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

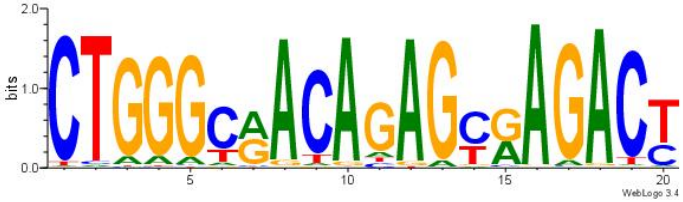

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

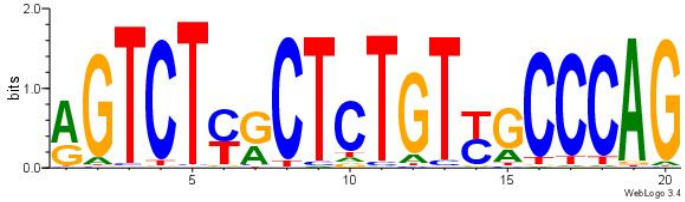

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.109916

Alignment:
CCCGAAGCTGCRYRCTCGGT
----GGAGTCTMKCTCT---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

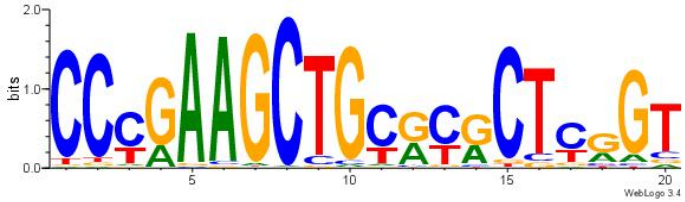

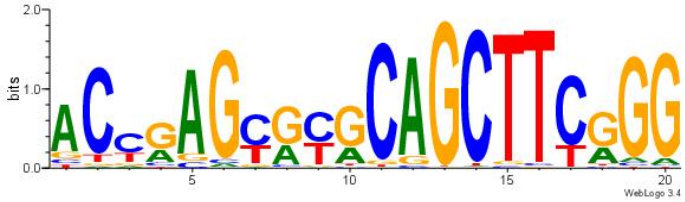

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.109947

Alignment:

```
GCTAATATATCCCTCCC
-GGAGTCTMKCTCT---
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

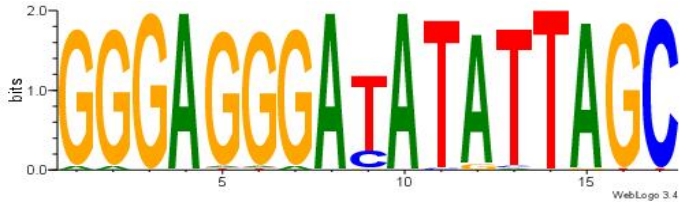

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

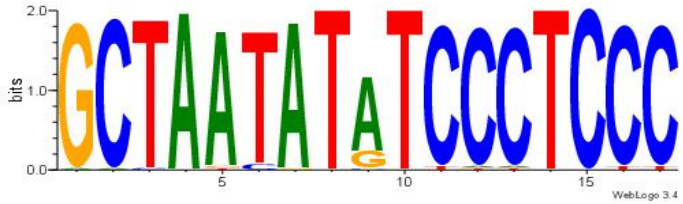

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.110531

Alignment:

```
ACTCCCTAGTGAGATGAACC
AGAGYRAGACTCC-------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

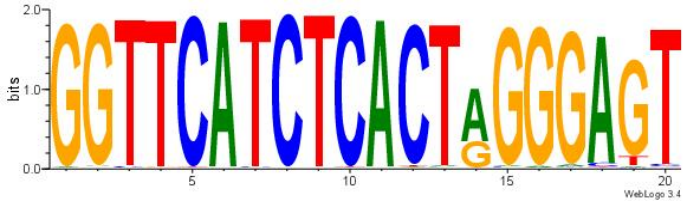

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

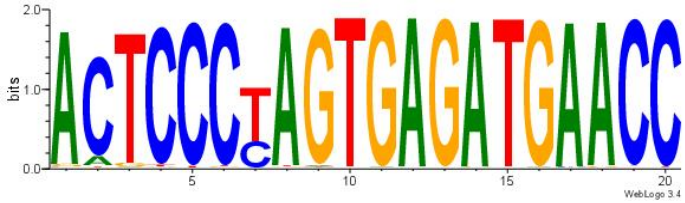

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.112208

Alignment:
GGGTCAGGGAGTTCCCTTTC
------GGAGTCTMKCTCT-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

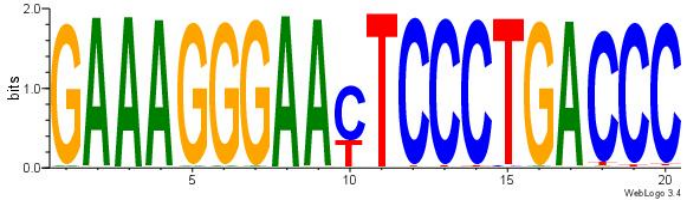

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

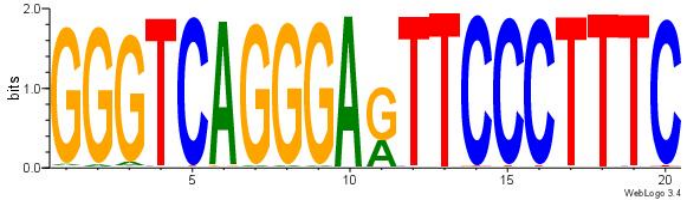

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.112427

Alignment:
AGAGCCAAATCATGARTGAA
AGAGYRAGACTCC-------

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

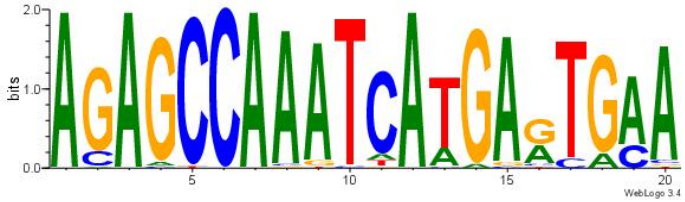

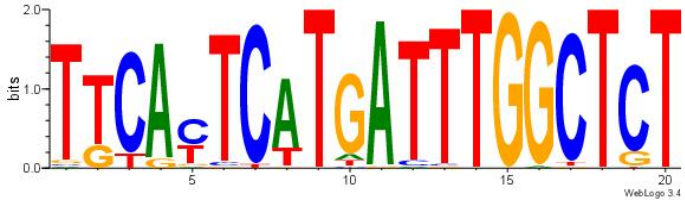

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.113144

Alignment:

```
AGGASCSTCYSWGCCMGGY
-----GGAGTCTMKCTCT-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

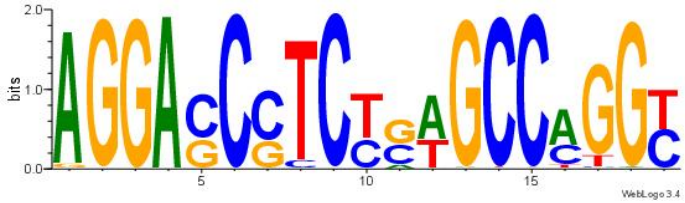

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

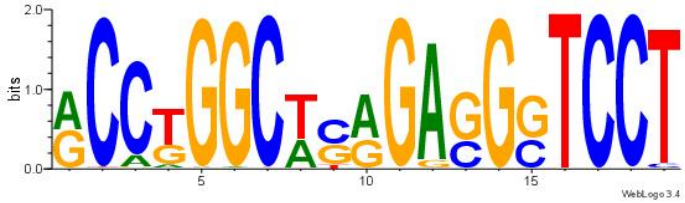

Dataset #: 1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113299

Alignment:

```
ACAAGGCAAGTCCCTTCY
AGAGYRAGACTCC-----
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

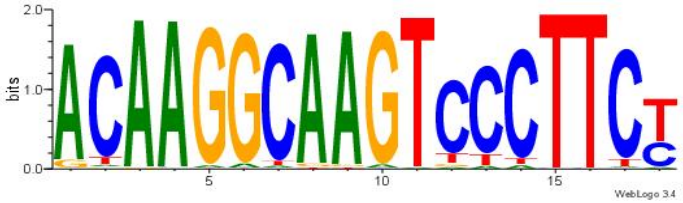

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

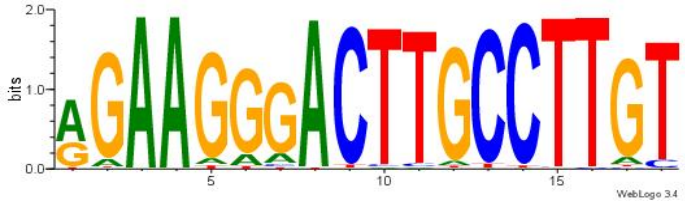

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.113818

Alignment:
TTGGAGGTTCTAGCAGGG
--GGAGTCTMKCTCT---

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

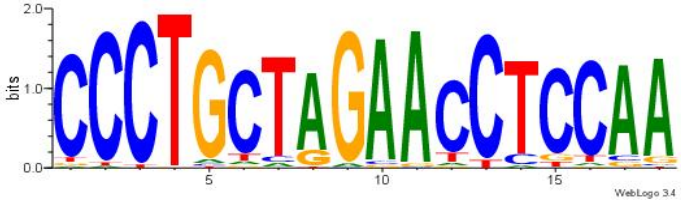

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

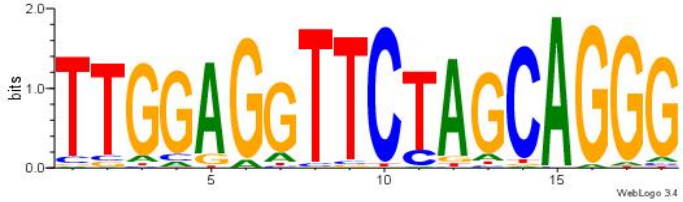

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.113849

Alignment:
AAGTCCAAGATCAAGGTGYY
-------AGAGYRAGACTCC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

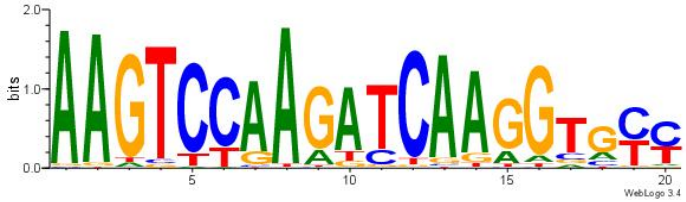

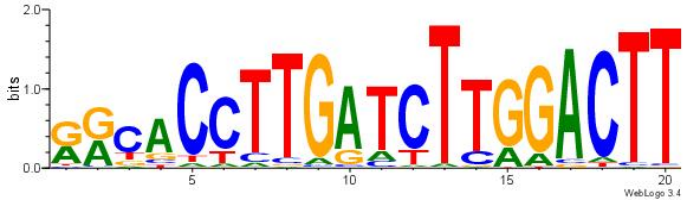

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.114365

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-------AGAGYRAGACTCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

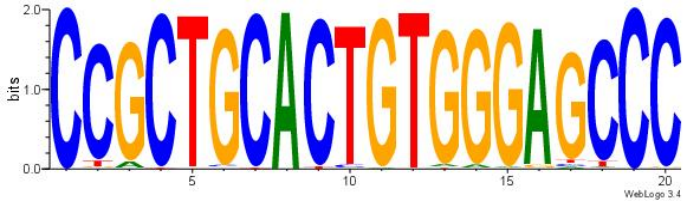

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

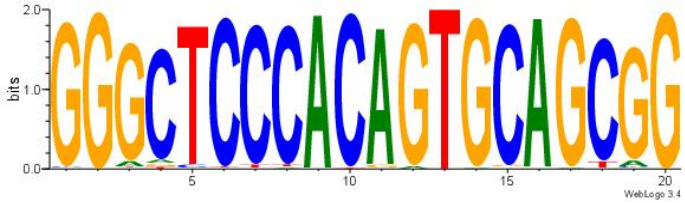

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.114606

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
----GGAGTCTMKCTCT---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

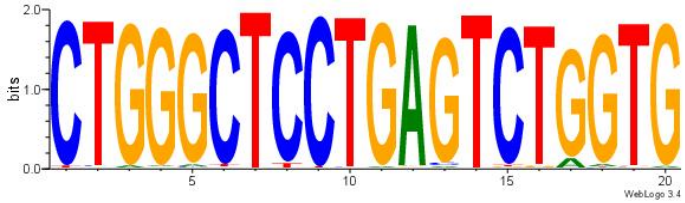

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

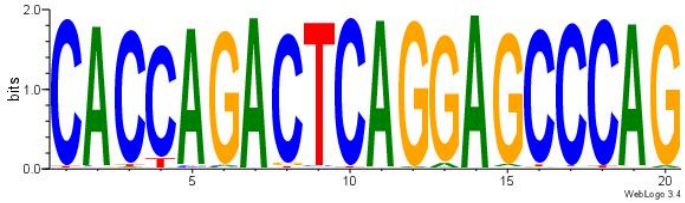

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.115055

Alignment:
GTAGACKGGAGCTGTTCCT
GGAGTCTMKCTCT------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

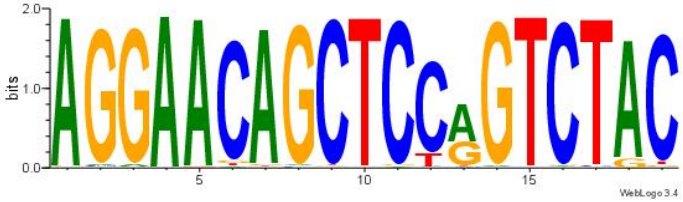

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

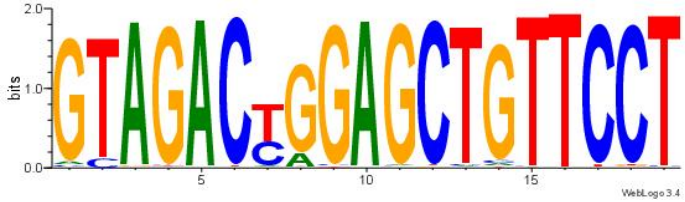

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.115268

Alignment:
GTTAACTGTAAAACAGCCT
----AGAGYRAGACTCC--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

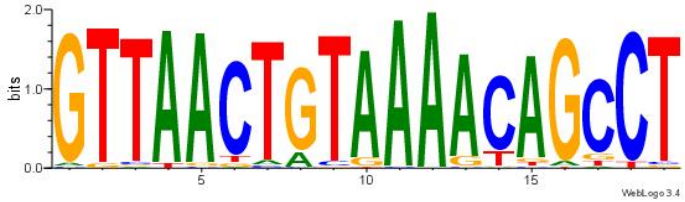

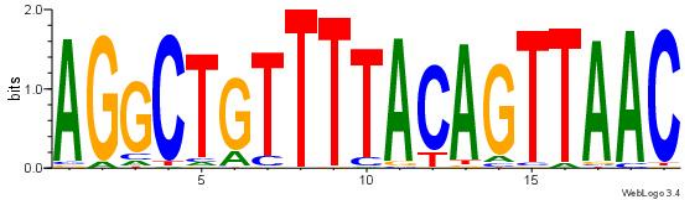

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.115654

Alignment:

```
GGTCAGGATCATCAATAT
-----GGAGTCTMKCTCT
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

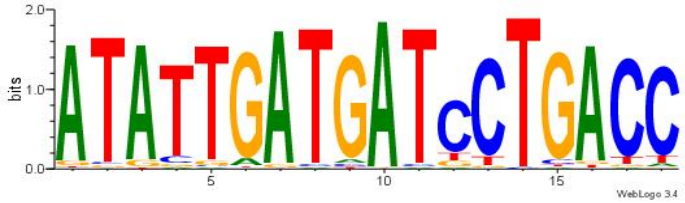

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

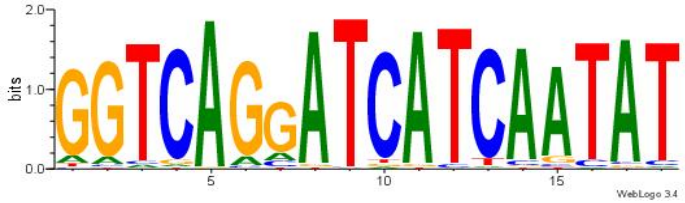

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.116126

Alignment:

```
GGGTGCAGGMGGGCTGAGT
----GGAGTCTMKCTCT--
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

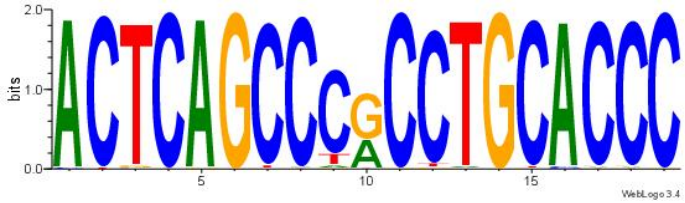

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

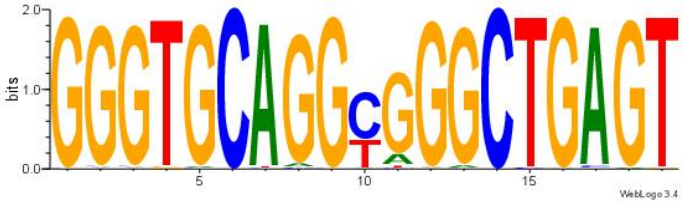

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.11655

Alignment:
ACTTTGGACTGTGGACTTTT
-----GGAGTCTMKCTCT--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

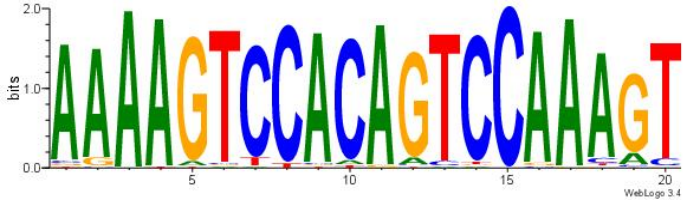

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

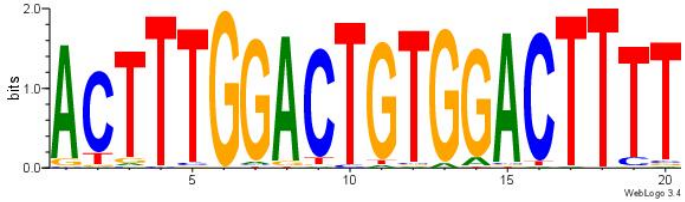

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.116784

Alignment:
CCGCGGGGCAGGGCTCG
----GGAGTCTMKCTCT

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

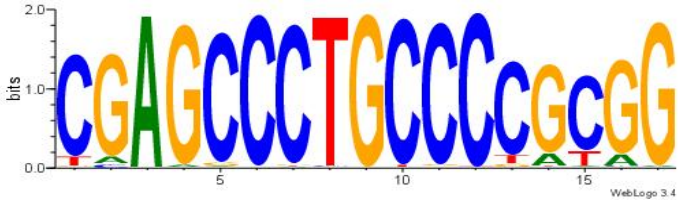

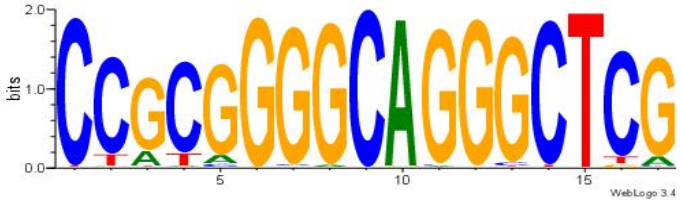

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.11713

Alignment:

```
GGGGGCTGACCCCCCCACC
------GGAGTCTMKCTCT
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

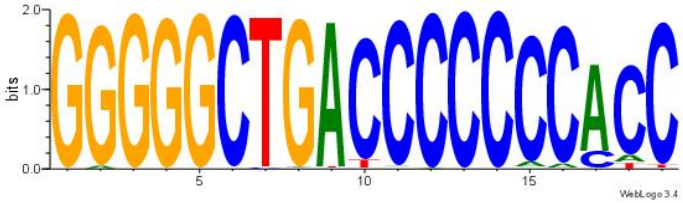

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

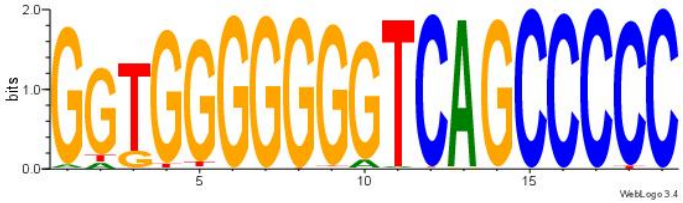

Dataset #: 1

Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.117263

Alignment:

```
GGTGGGAGAAATACCT
-AGAGYRAGACTCC--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

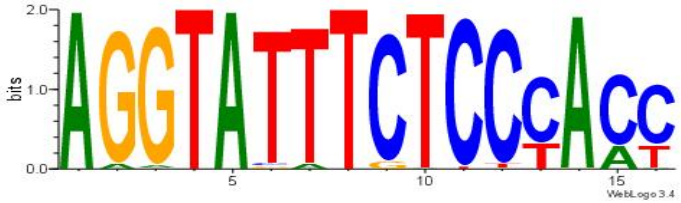

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

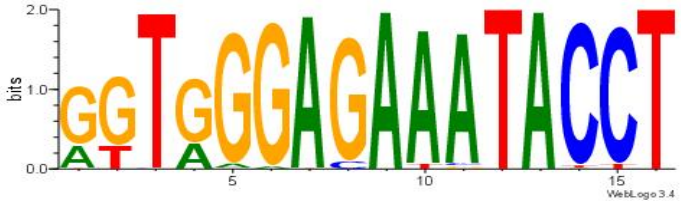

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.117372

Alignment:
TGAGKCAATTAAACCTCTT
-----GGAGTCTMKCTCT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

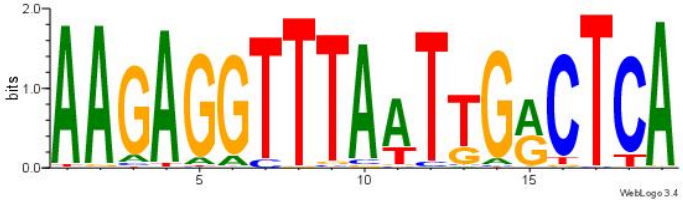

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

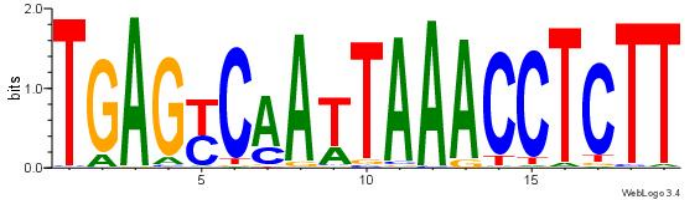

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.117424

Alignment:
AGCCCCGGTTCCCGCYCGC
-GGAGTCTMKCTCT-----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

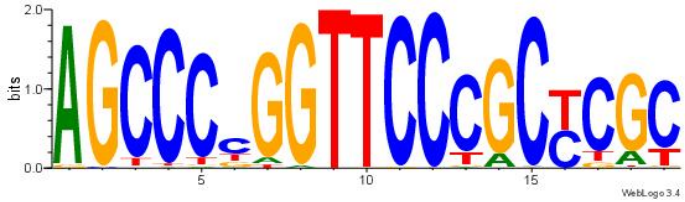

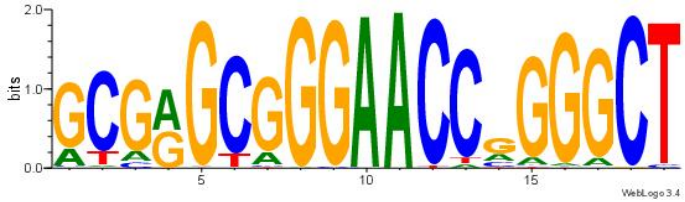

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.117556

Alignment:

```
CGGCTCGCGCACGG
GGAGTCTMKCTCT-
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

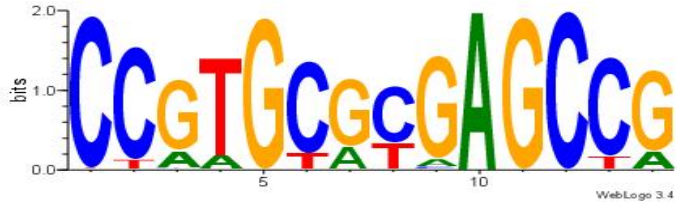

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

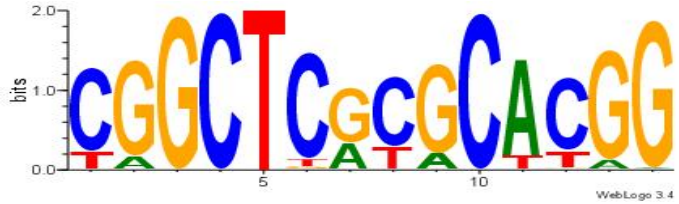

Dataset #:	1
Motif ID:	108

Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.117559

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
AGAGYRAGACTCC-------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

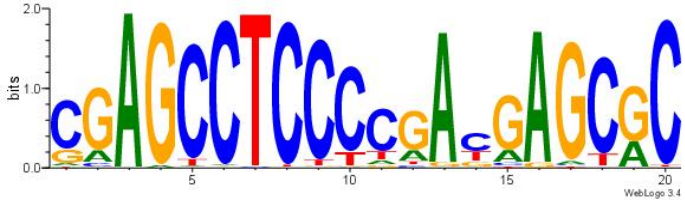

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

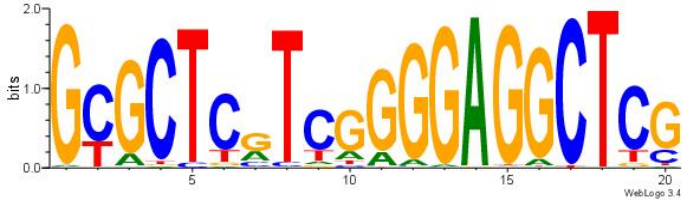

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.117655

Alignment:
GGTGCCCCTCTGGGACRAA
GGAGTCTMKCTCT------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

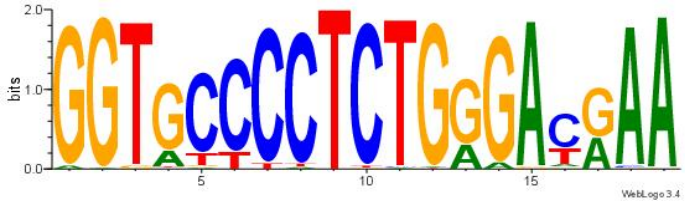

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

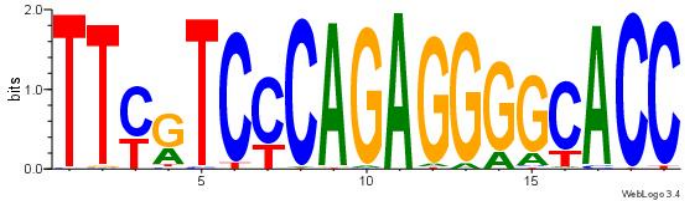

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.119137

Alignment:
ATAGGAATGCTTGTGATTTT
AGAGYRAGACTCC-------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

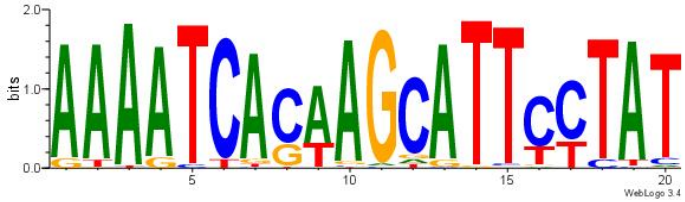

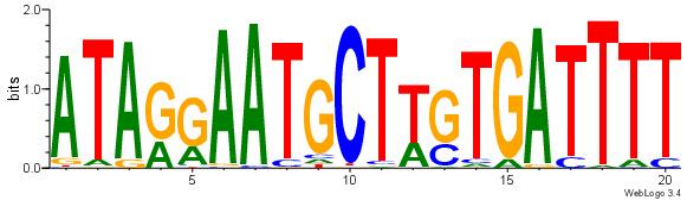

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.120615

Alignment:

```
MTCCTCCAGACCCCAGAATG
-AGAGYRAGACTCC------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

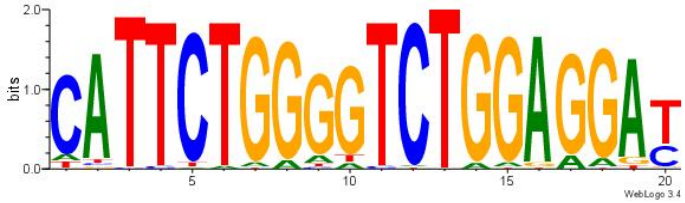

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

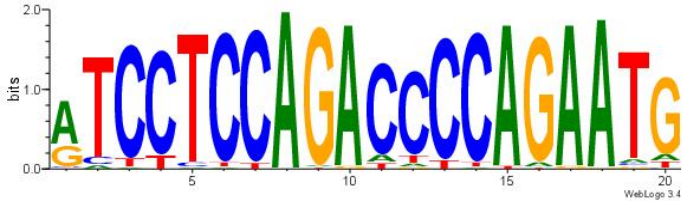

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.120629

Alignment:

```
ATGTAACCAAAYACCACCTG
--AGAGYRAGACTCC-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

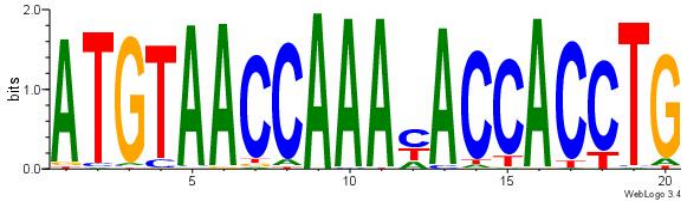

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

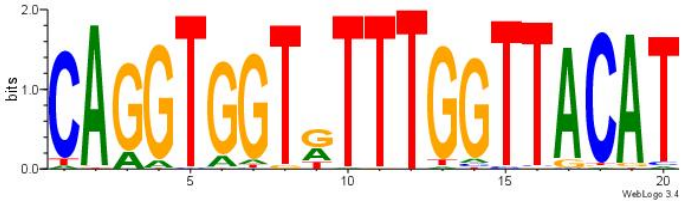

Dataset #: 1 Motif ID: 205 Motif name: Motif 205

Original motif Consensus sequence: CATCTGGCAGCCCA

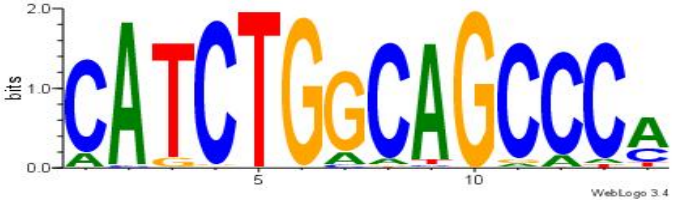

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

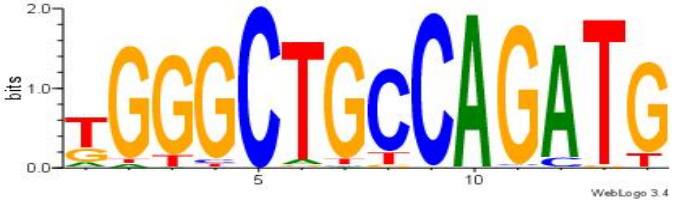

Best Matches for Motif ID 205 (Highest to Lowest)

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.036398

Alignment:

```
CATTTGGGAGCCCATTGA
CATCTGGCAGCCCA----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

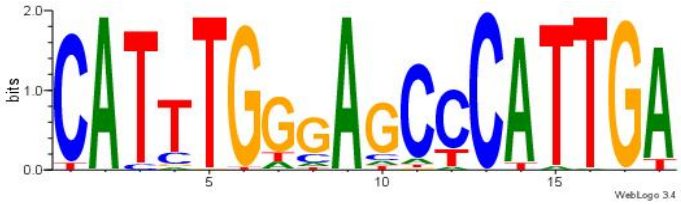

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

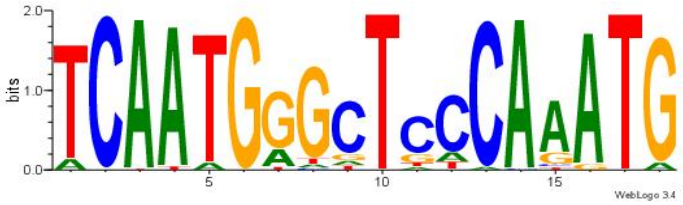

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0491079

Alignment:

```
CATCTGGAGCCCCA
CATCTGGCAGCCCA
```

Original motif Consensus sequence: CATCTGGAGCCCCA

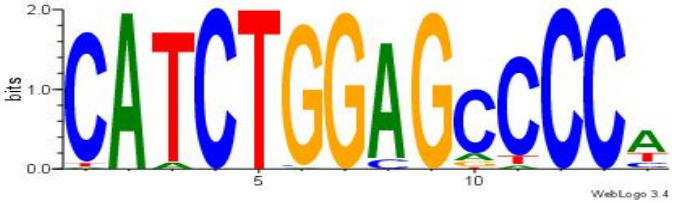

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

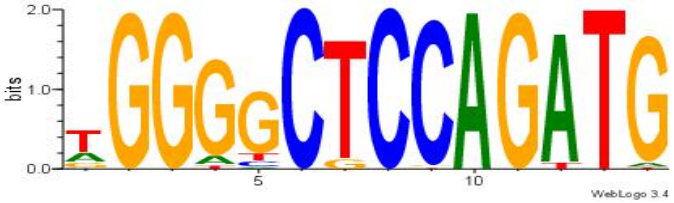

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0681372

Alignment:

```
CCTTGGCCAGCCCAGAAAG
CATCTGGCAGCCCA-----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

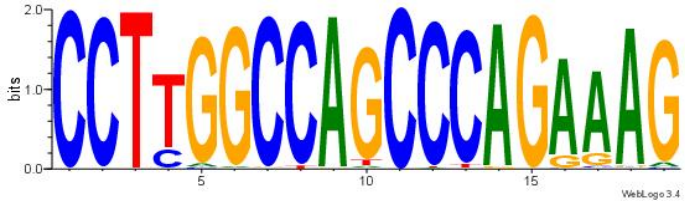

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

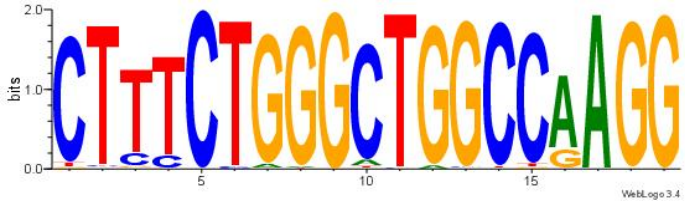

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0781052

Alignment:

```
AGCCYCTGGYAACCAYYAWT
--CATCTGGCAGCCCA----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

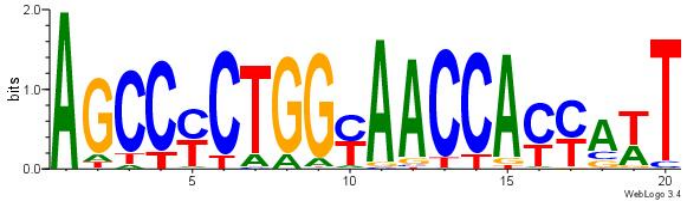

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

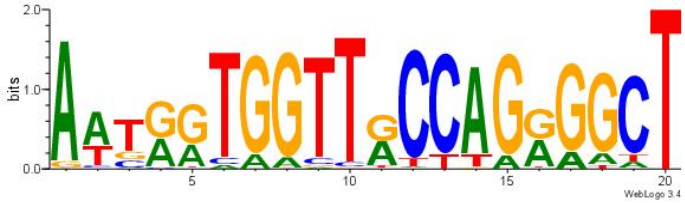

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0803617

Alignment:

```
GACATGAGCTGGCGCTTG
----TGGGCTGCCAGATG
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

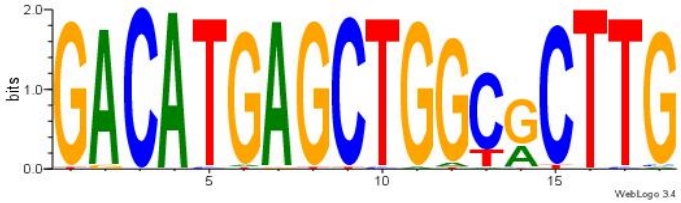

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

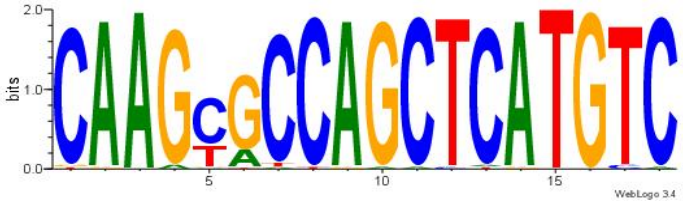

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.0880715

Alignment:
CTTGGGTGGTCGATGGGAC
-TGGGCTGCCAGATG----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

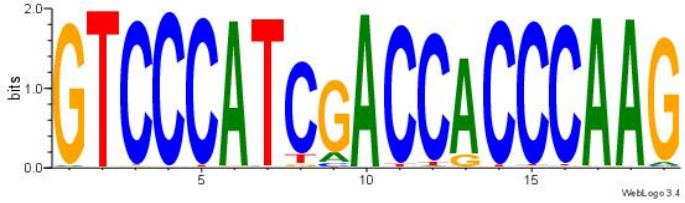

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

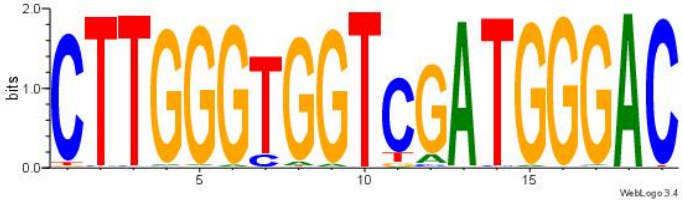

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0881301

Alignment:
TTGGTAGGATCCGTGATGCC
----TGGGCTGCCAGATG--

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

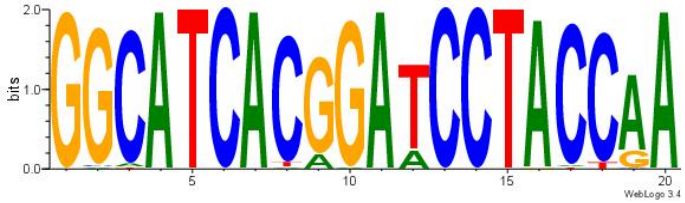

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

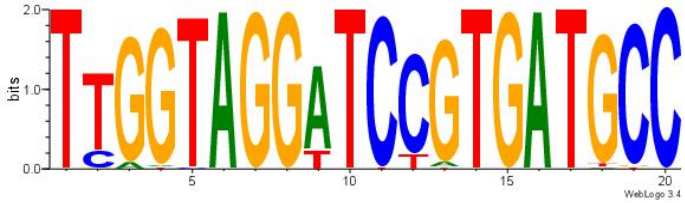

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0881903

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--CATCTGGCAGCCCA----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

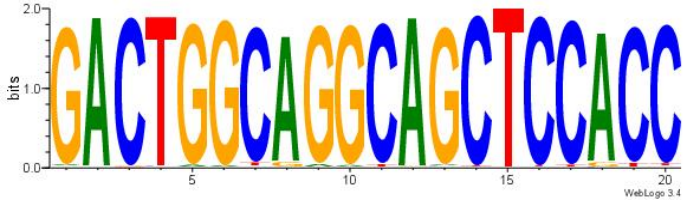

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

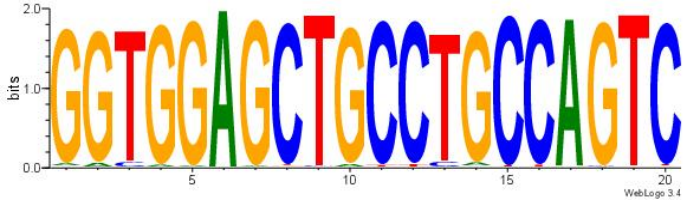

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0895529

Alignment:

```
ACCCYGTCTGGGAGGTG
TGGGCTGCCAGATG---
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

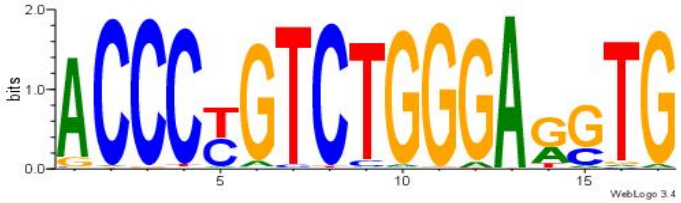

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

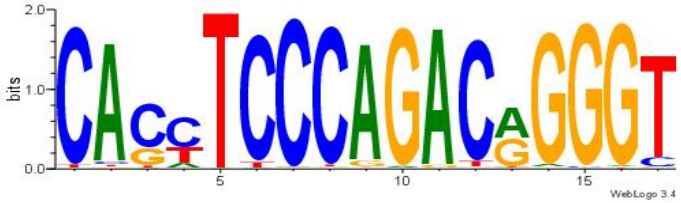

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0913277

Alignment:
ACCATCTTTAAGAACT
--CATCTGGCAGCCCA

Original motif Consensus sequence: AGTTCTTAAAGATGGT

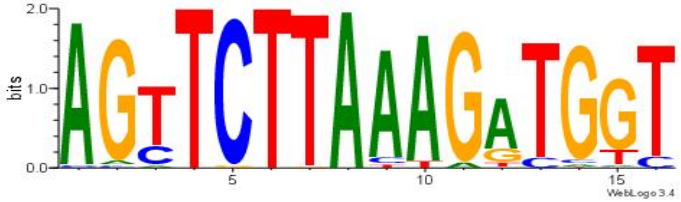

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

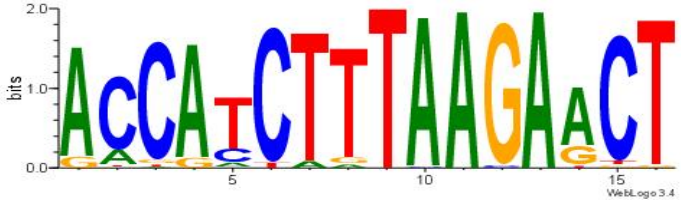

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0919196

Alignment:
CTGGGTCCCCCAGCAGTGCC
----TGGGCTGCCAGATG--

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

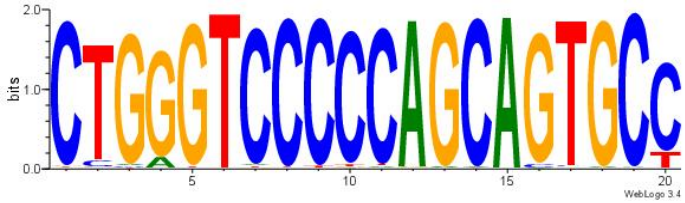

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

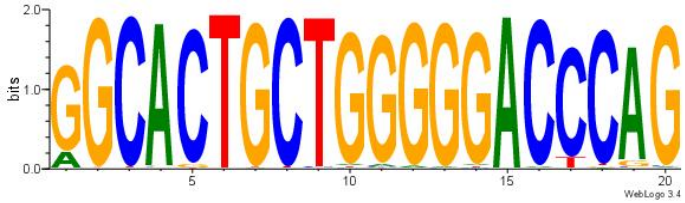

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0920435

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-----CATCTGGCAGCCCA-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

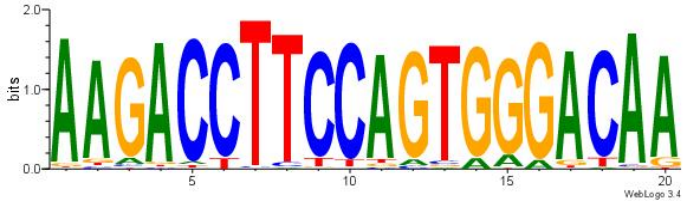

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

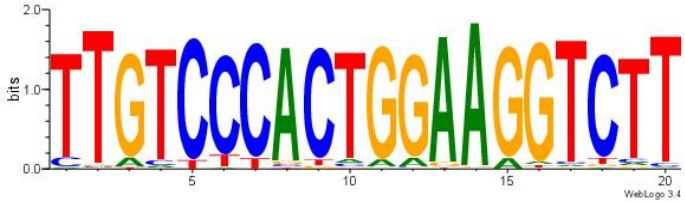

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0925253

Alignment:
GCGGCTGGCCGGGCG
CATCTGGCAGCCCA-

Original motif Consensus sequence: CGCCCGGCCAGCCGC

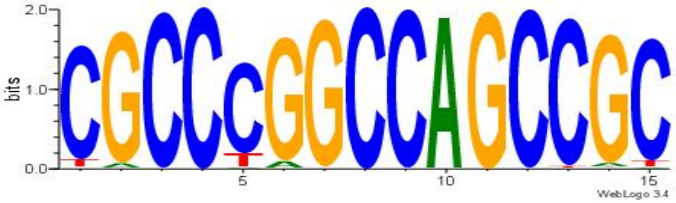

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

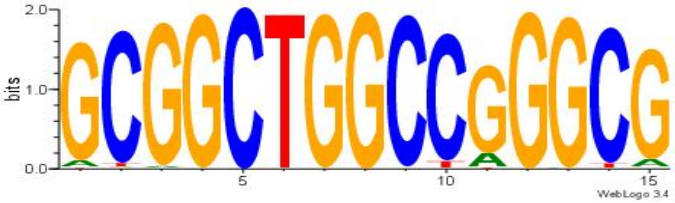

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.0930986

Alignment:
ACAGGCTGTCCCAGGATTC
-TGGGCTGCCAGATG----

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

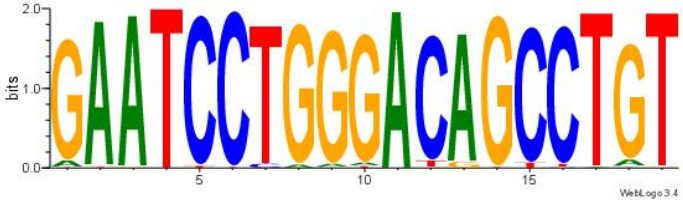

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

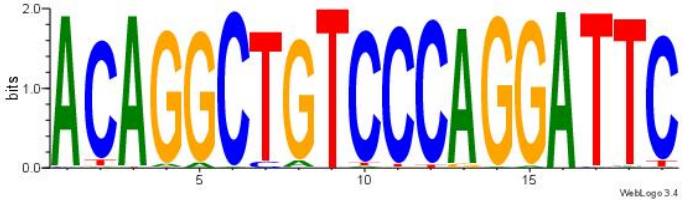

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.0933019

Alignment:
CGAGCCTCCCCGAYGAGCGC
-----TGGGCTGCCAGATG-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

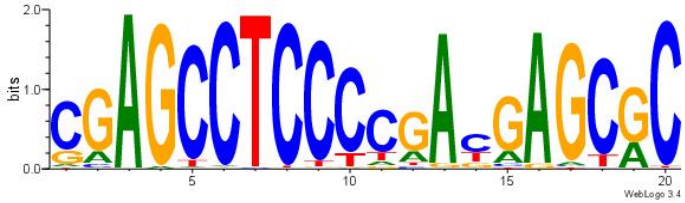

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

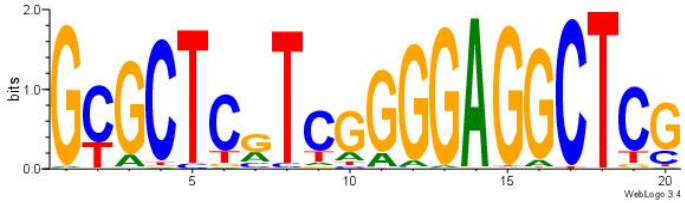

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0933499

Alignment:

```
GMTTAGCTCCCACTTA
--TGGGCTGCCAGATG
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

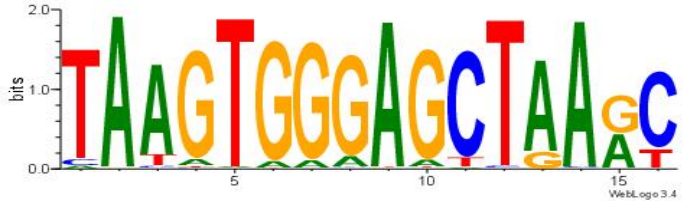

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

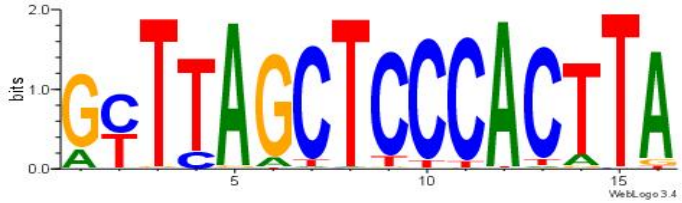

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0942363

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
----TGGGCTGCCAGATG--
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

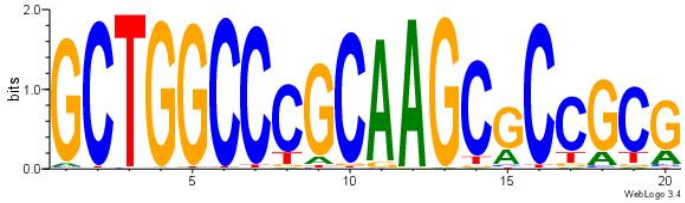

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

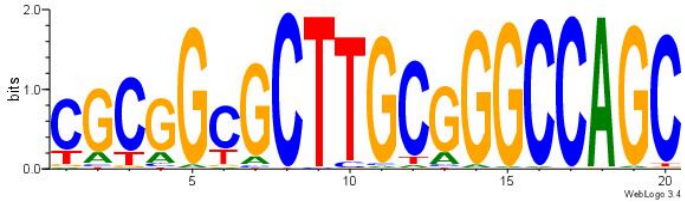

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0942463

Alignment:
CCCMKGGCACCCTCAGTCCT
CATCTGGCAGCCCA------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

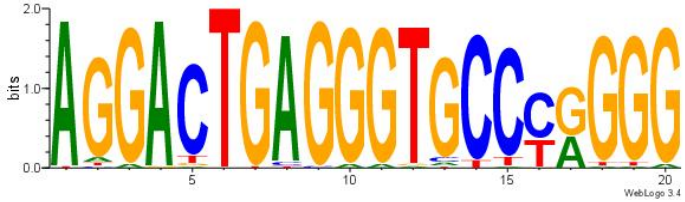

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

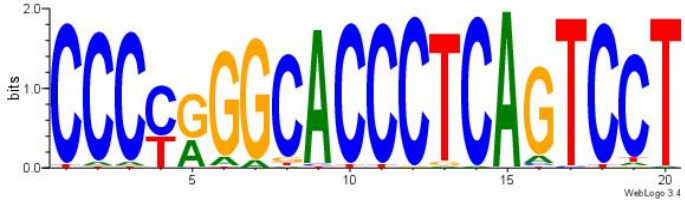

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0952761

Alignment:
GTAGCTGGGAYTACA
-CATCTGGCAGCCCA

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

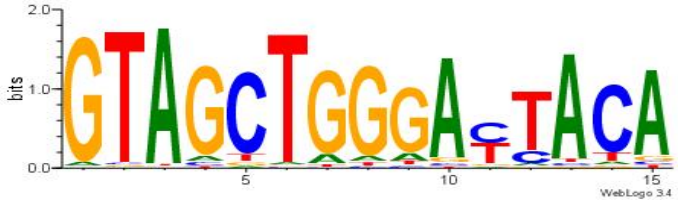

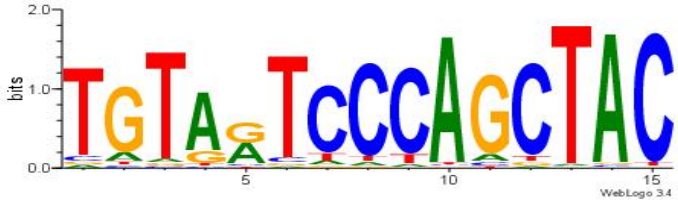

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0954964

Alignment:

```
AGAGCTCTGGCTGGCATCT
---CATCTGGCAGCCCA--
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

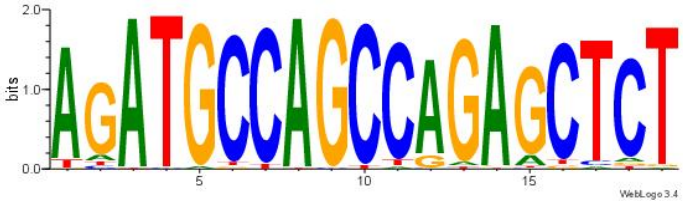

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

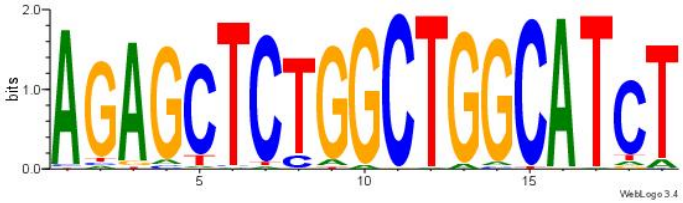

Dataset #:	1

Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0974905

Alignment:

```
TGGCCTGTTAGGAA
TGGGCTGCCAGATG
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

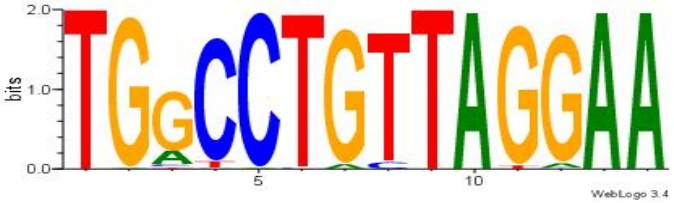

Reverse complement motif Consensus sequence: TTCCTAACAGGCCA

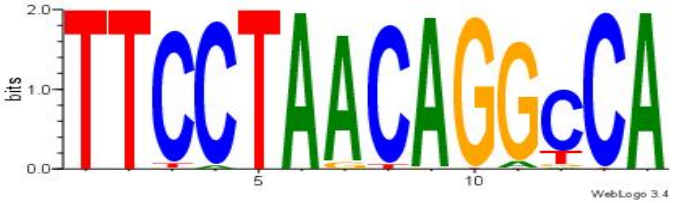

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0977838

Alignment:
CTTGCGCTTCCCRRGTGA
--TGGGCTGCCAGATG--

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

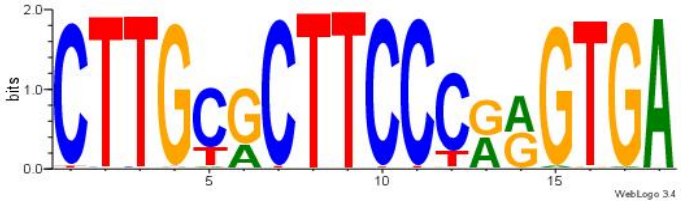

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

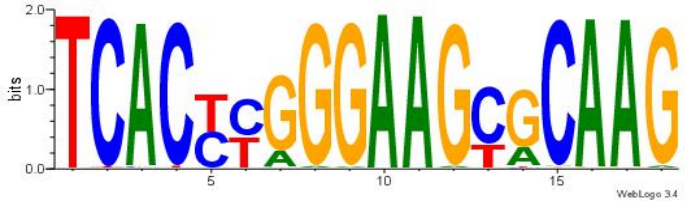

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.098344

Alignment:
ATGATCCAGCAATYCCACTH
--CATCTGGCAGCCCA----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

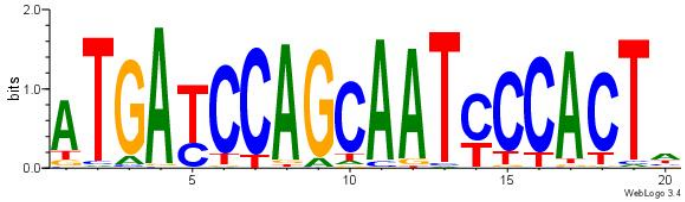

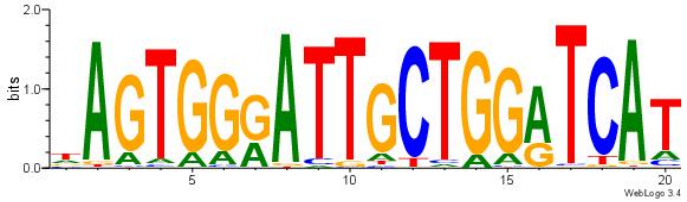

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0997464

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CATCTGGCAGCCCA-----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

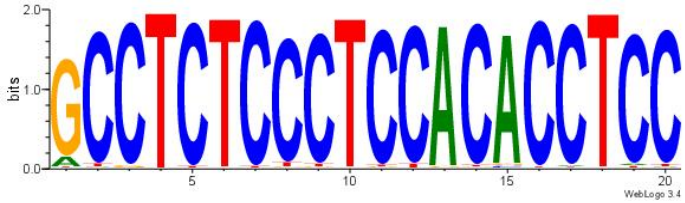

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

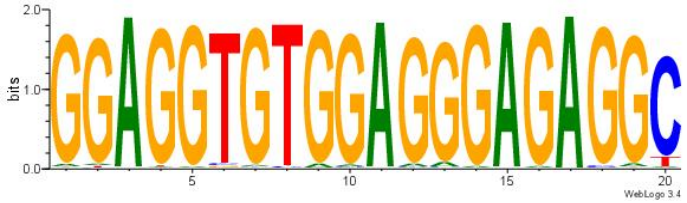

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.100049

Alignment:

```
CTGACTGGGAGACACCTCCC
-CATCTGGCAGCCCA-----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

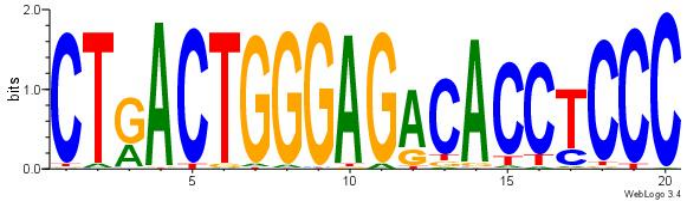

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

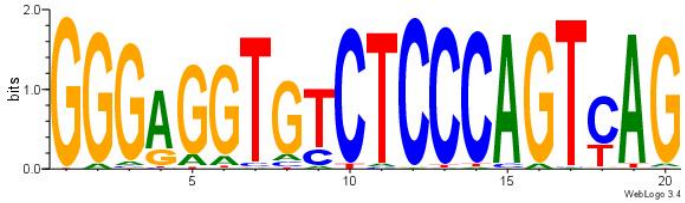

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.100137

Alignment:
TGTTATGCCTGAAAGT
TGGGCTGCCAGATG--

Original motif Consensus sequence: ACTTTCAGGCATAACA

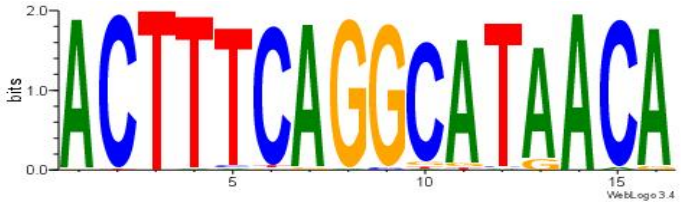

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

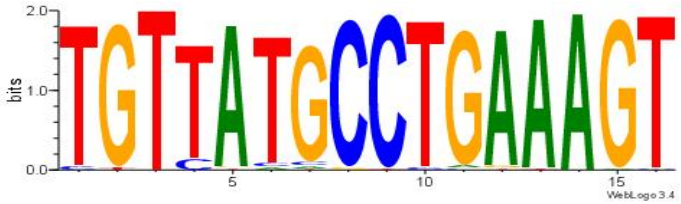

Dataset #: 1
Motif ID: 341
Motif name: Motif 341
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.100158

Alignment:
TGGATGGATGGATGGAT
TGGGCTGCCAGATG---

Original motif Consensus sequence: ATCCATCCATCCATCCA

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

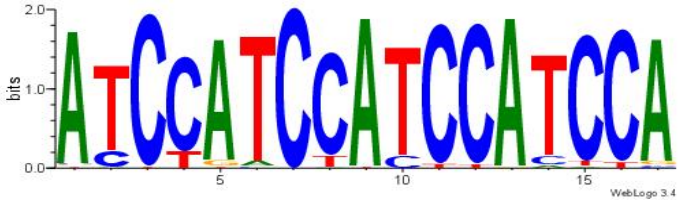

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.102549

Alignment:

```
CACCAGACTCAGGAGCCCAG
-CATCTGGCAGCCCA-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

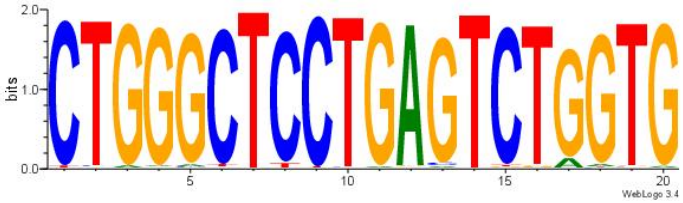

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

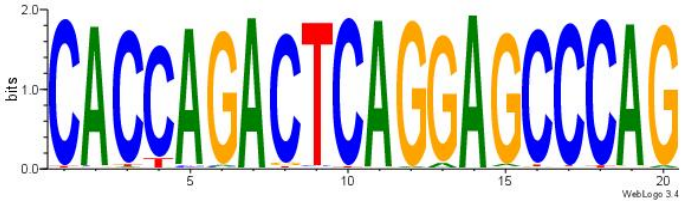

Dataset #:	1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.102794

Alignment:

```
TWTACCTATGTAACAAACCT
CATCTGGCAGCCCA------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

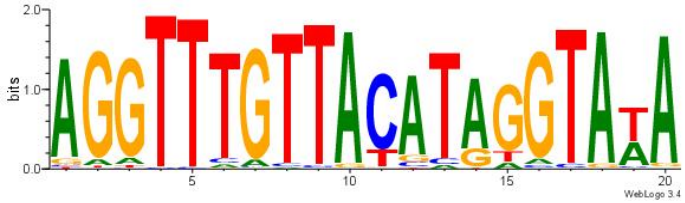

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

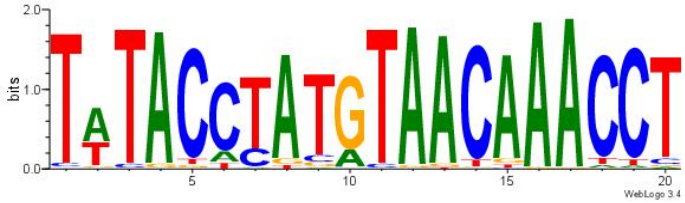

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.103454

Alignment:
ACATCMTCTGAAATCTAGG
----CATCTGGCAGCCCA-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

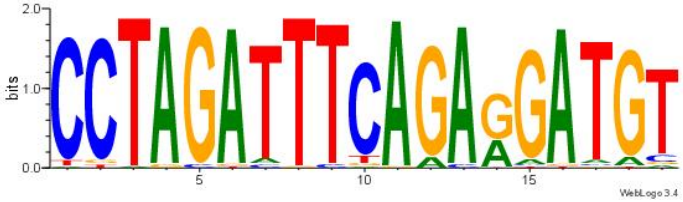

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

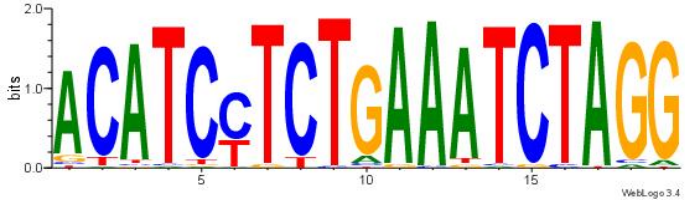

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.103734

Alignment:
CAAGTTGACACATAAAATTA
TGGGCTGCCAGATG------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

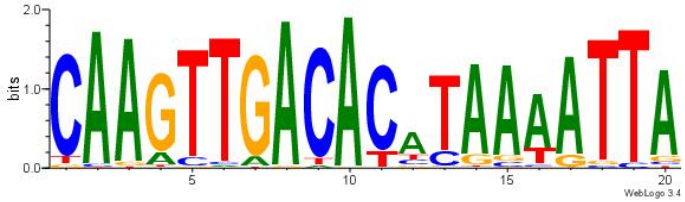

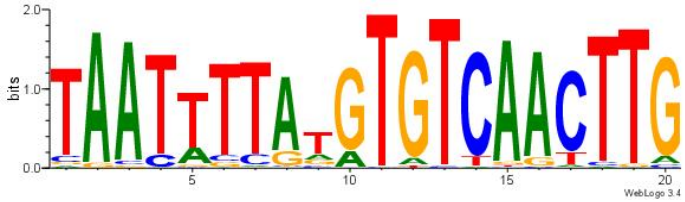

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.104036

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-----TGGGCTGCCAGATG-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

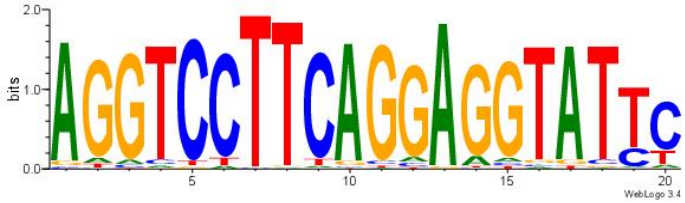

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

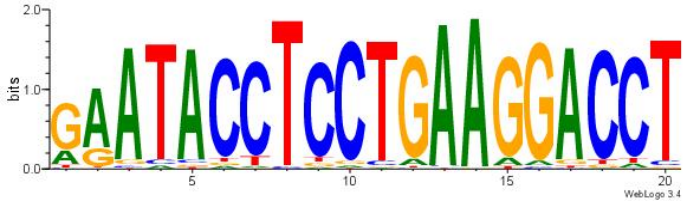

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.104351

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--TGGGCTGCCAGATG----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

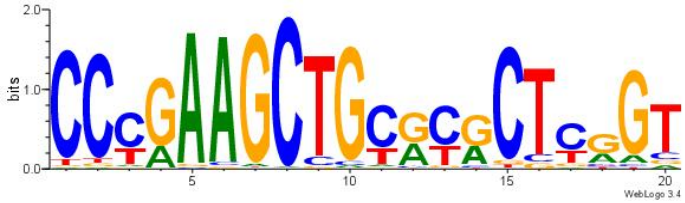

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

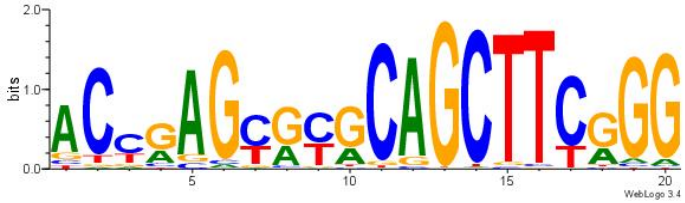

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.104397

Alignment:
GGGGGCTGACCCCCCCACC
--CATCTGGCAGCCCA---

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

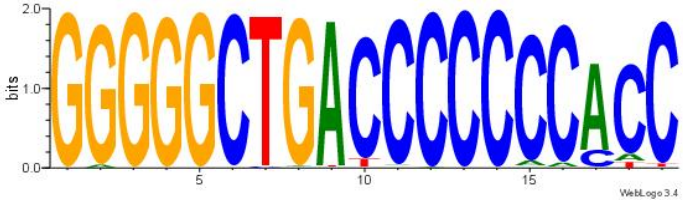

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

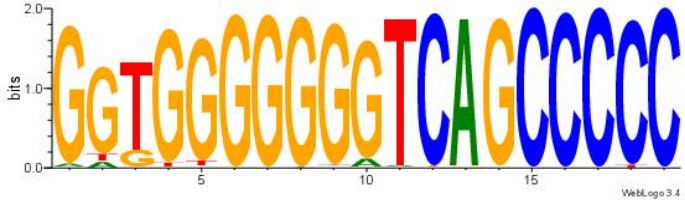

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.104698

Alignment:
CAGACTGCCTCCTCAA
TGGGCTGCCAGATG--

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

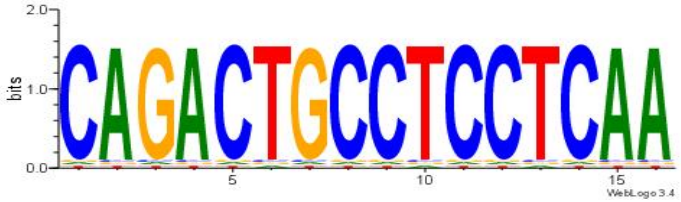

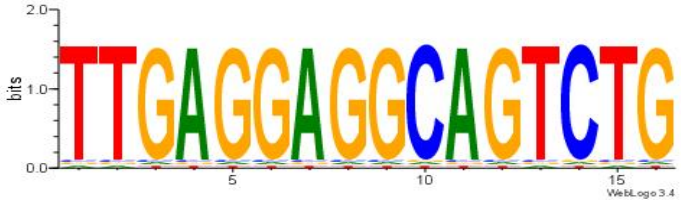

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.104884

Alignment:

```
CCGCGGGGCAGGGCTCG
--CATCTGGCAGCCCA-
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

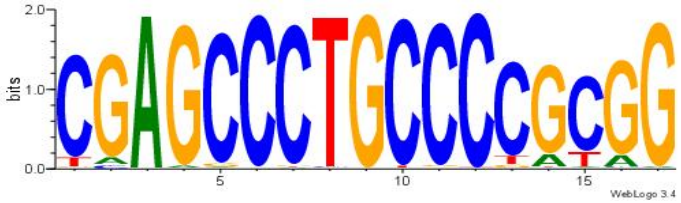

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

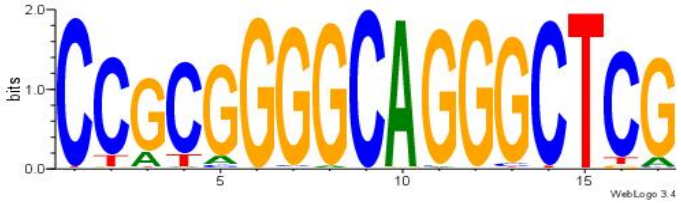

Dataset #:	1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.105131

Alignment:

```
GTTGGCCAGGCTGGTCT
--TGGGCTGCCAGATG-
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

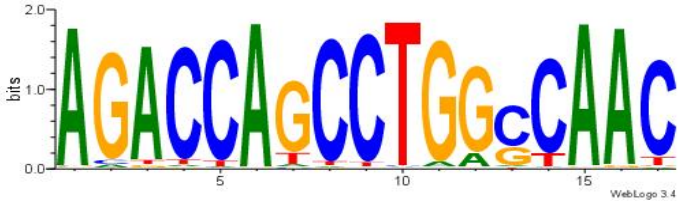

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

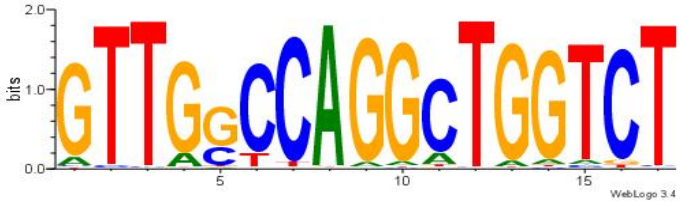

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.10515

Alignment:
CCCTGCTAGAACCTCCAA
--CATCTGGCAGCCCA--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

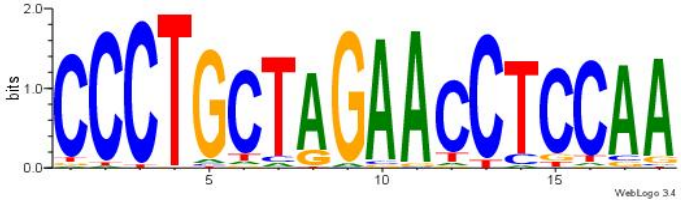

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

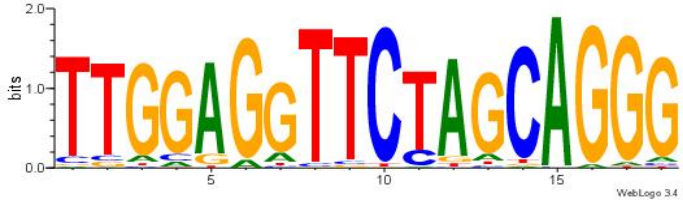

Dataset #: 1
Motif ID: 153
Motif name: Motif 153
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.105401

Alignment:
CACTAGGGAGTGCC
CATCTGGCAGCCCA

Original motif Consensus sequence: CACTAGGGAGTGCC

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

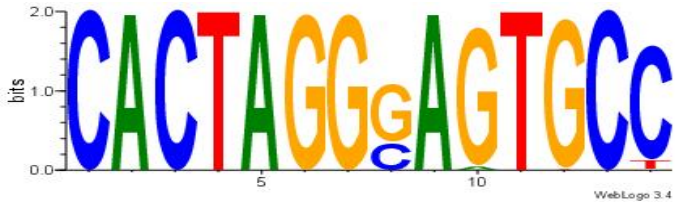

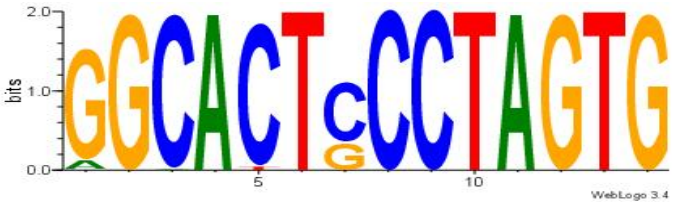

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.105471

Alignment:

```
GTGTGCGAATAGGTGT
-TGGGCTGCCAGATG-
```

Original motif Consensus sequence: ACACCTATTCGCACAC

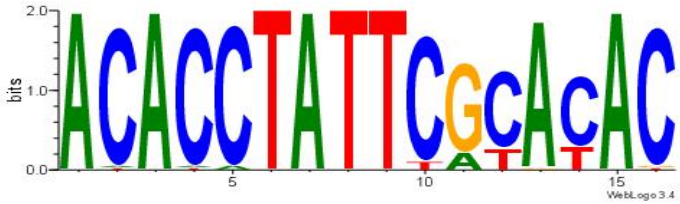

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

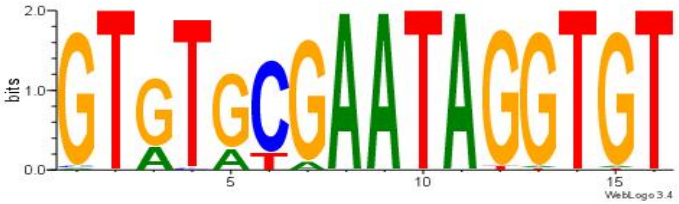

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.105882

Alignment:

```
ACTGTCTTCCACCTCCACAT
--CATCTGGCAGCCCA----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

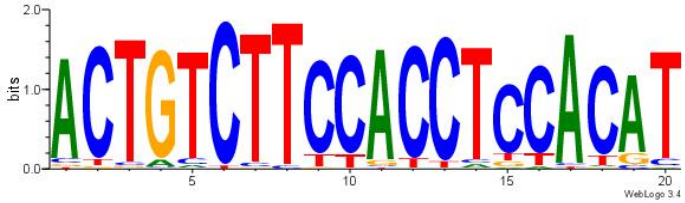

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

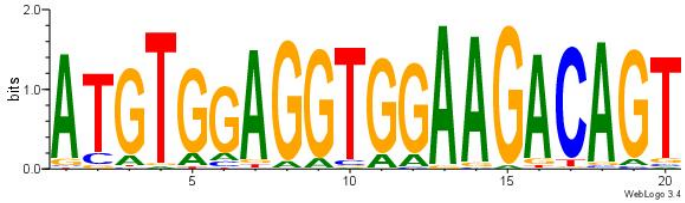

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.106134

Alignment:
CGCCCCGTCTGGGAAGTG
----TGGGCTGCCAGATG

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

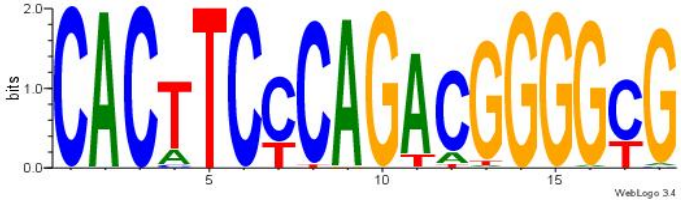

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

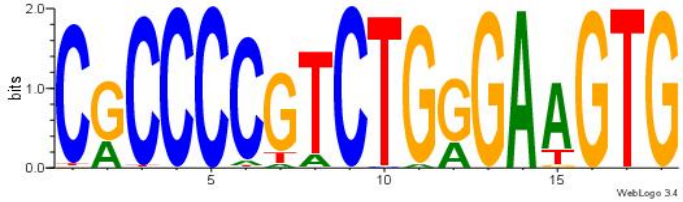

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.1063

Alignment:
ACACATCACAAAGCAGTTTC
---CATCTGGCAGCCCA---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

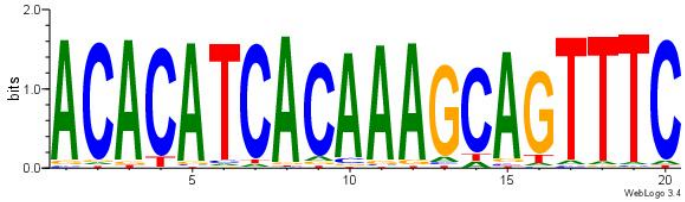

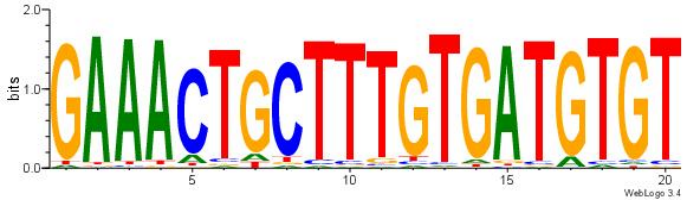

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.106382

Alignment:

```
CAGGCGGCTGGGAG
TGGGCTGCCAGATG
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

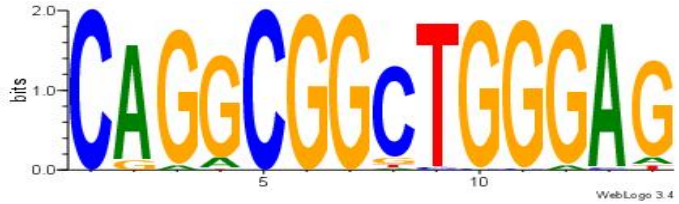

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

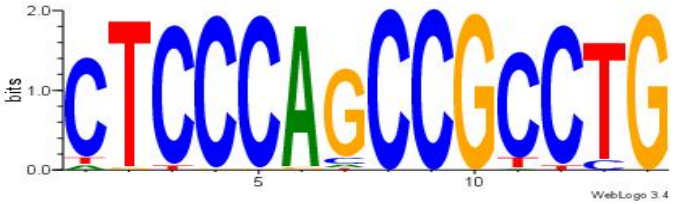

Dataset #:	1
Motif ID:	26

Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.106589

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
TGGGCTGCCAGATG------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

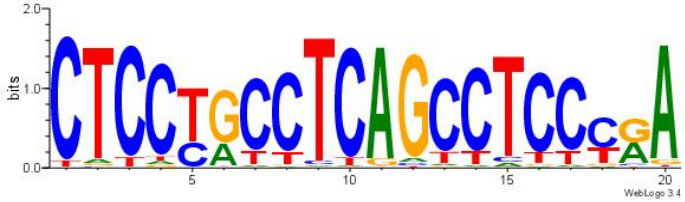

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

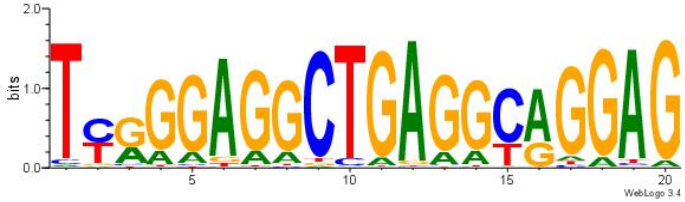

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.107568

Alignment:
KGCAACCTAGATCCCT
--CATCTGGCAGCCCA

Original motif Consensus sequence: AGGGATCTAGGTTGCR

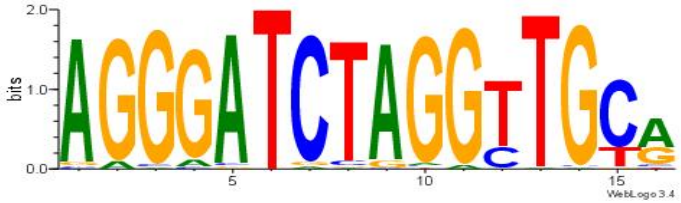

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

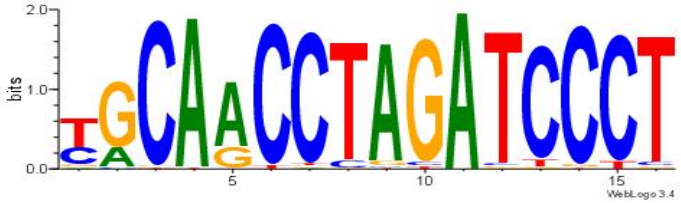

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.107635

Alignment:
CACTTTCCAGACTGGGCA
----CATCTGGCAGCCCA

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

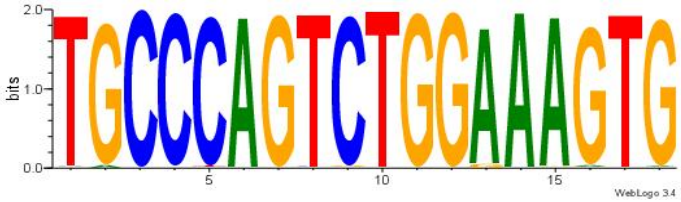

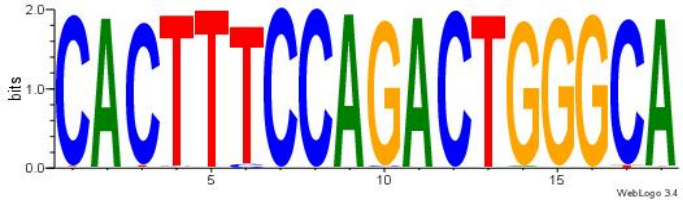

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.108177

Alignment:

```
TCCAAATGGGAGAAATTGGC
--CATCTGGCAGCCCA----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

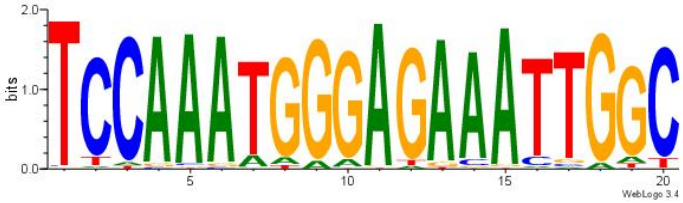

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

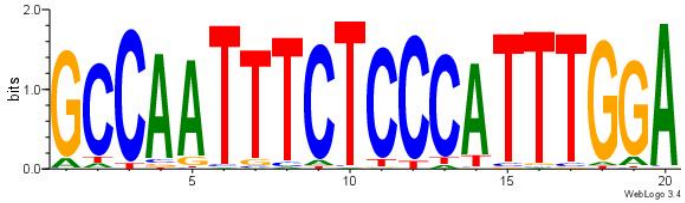

Dataset #:	1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.108405

Alignment:

```
AAGTCTCCCAATTACAACT
TGGGCTGCCAGATG-----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

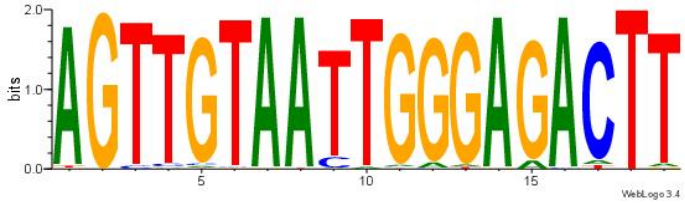

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

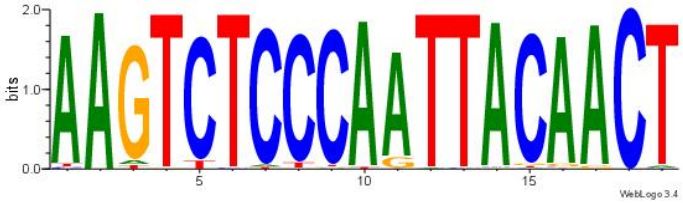

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.108988

Alignment:
GGTTCATCTCACTAGGGAGT
----CATCTGGCAGCCCA--

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

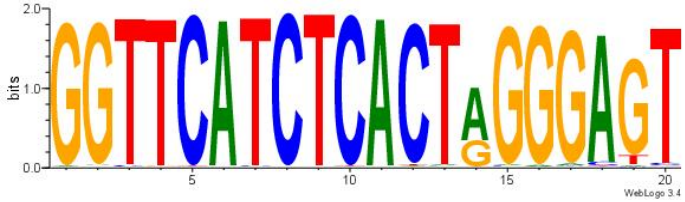

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

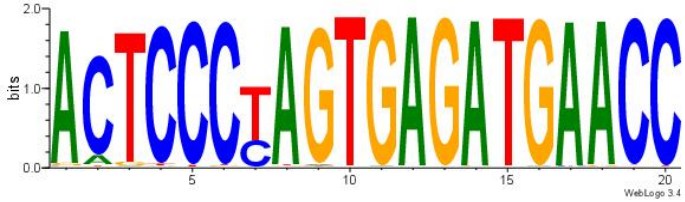

Dataset #: 1 Motif ID: 206 Motif name: Motif 206

Original motif Consensus sequence: GCTCCWGTGYGKCC

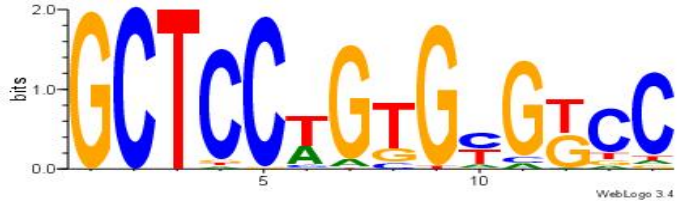

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Best Matches for Motif ID 206 (Highest to Lowest)

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.038263

Alignment:
GGGRSCACAGGAGCD
GGRCKCACWGGAGC-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

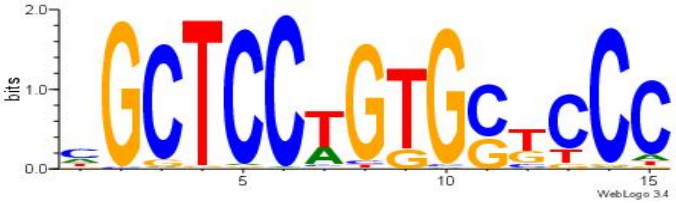

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0894523

Alignment:
CTGGGCTCCTGAGTCTGGTG
----GCTCCWGTGYGKCC--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

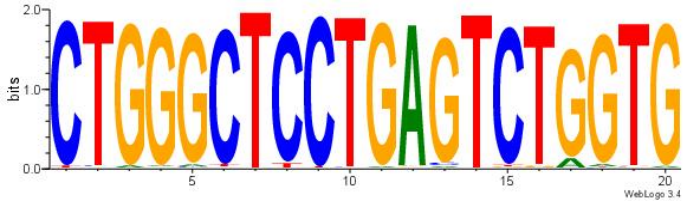

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

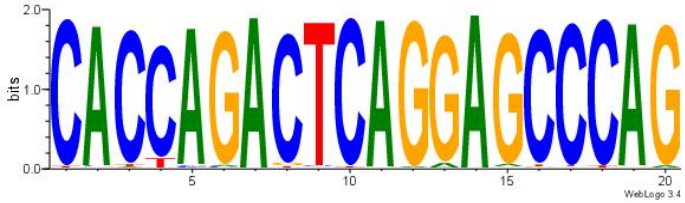

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0920579

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--GCTCCWGTGYGKCC----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

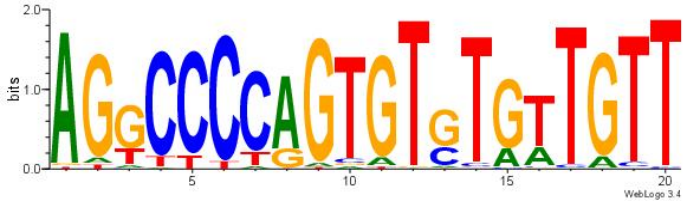

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

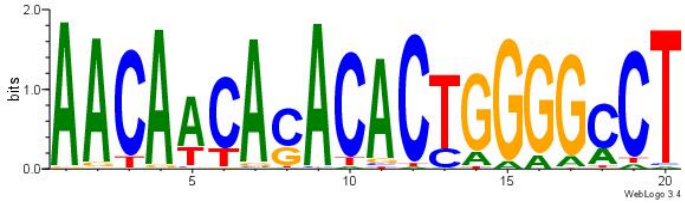

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0936498

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
---GGRCKCACWGGAGC---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

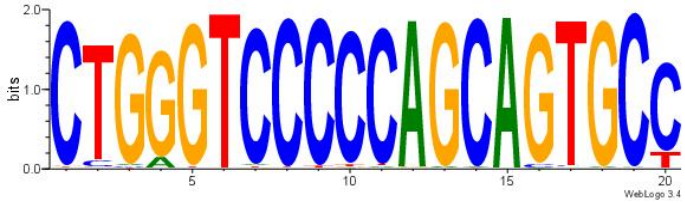

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

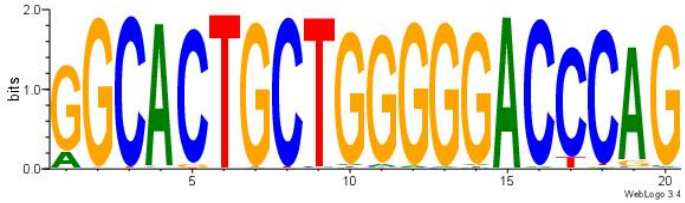

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 14
Similarity score: 0.095951

Alignment:
AAGCTCGAACTGGGTGGAGC
------GGRCKCACWGGAGC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

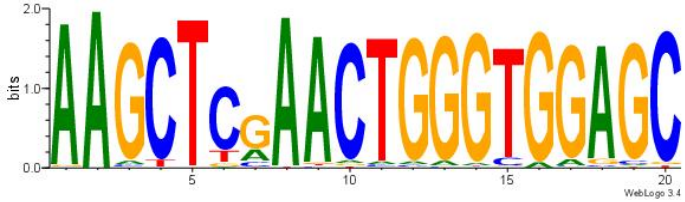

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

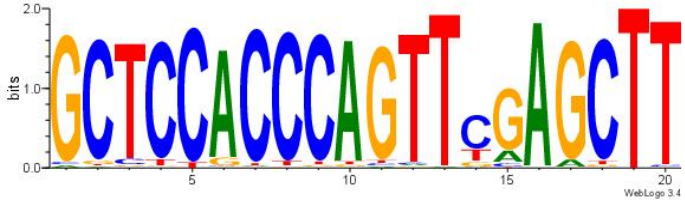

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0960333

Alignment:
GAATACCTCCTGAAGGACCT
-GCTCCWGTGYGKCC-----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

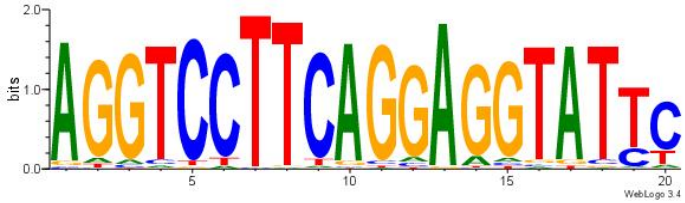

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

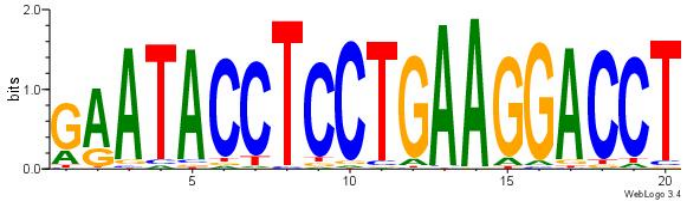

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0978071

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
---GGRCKCACWGGAGC---
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

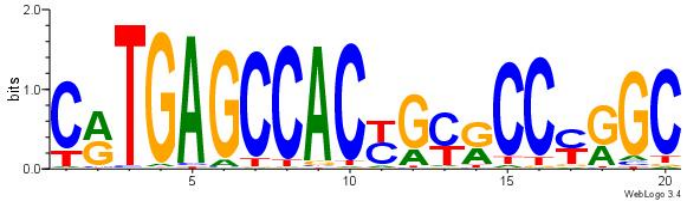

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

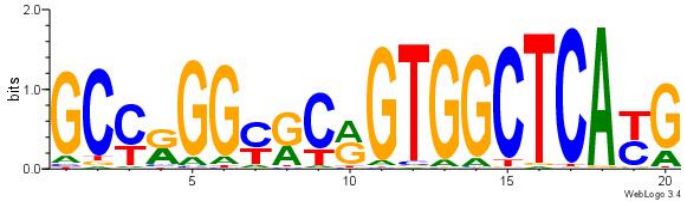

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0990193

Alignment:

```
GCTTAGCACCYGGGCCAGC
-----GCTCCWGTGYGKCC
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

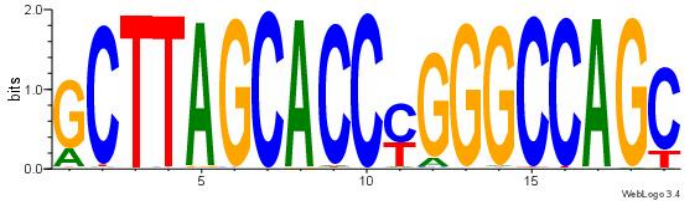

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

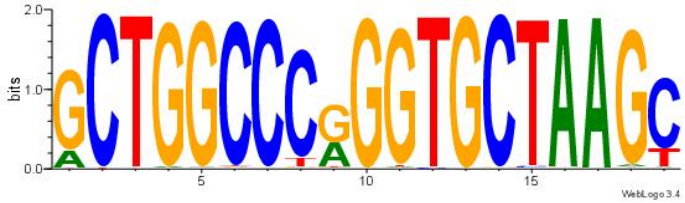

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.100354

Alignment:
CCGCTGCACTGTGGGAGCCC
--GCTCCWGTGYGKCC----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

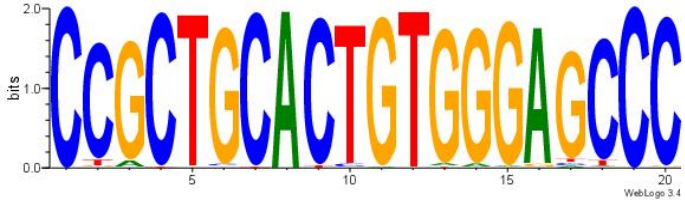

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

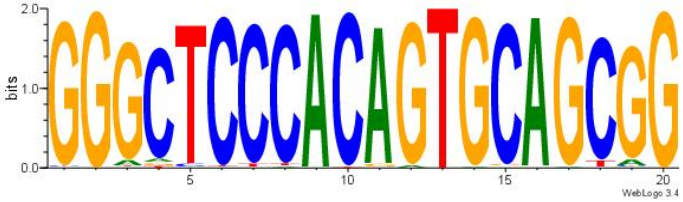

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.100526

Alignment:
HAGTGGKATTGCTGGATCAT
----GGRCKCACWGGAGC--

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

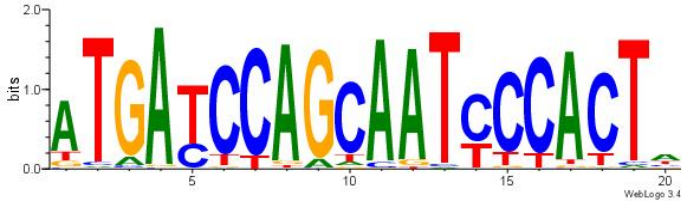

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

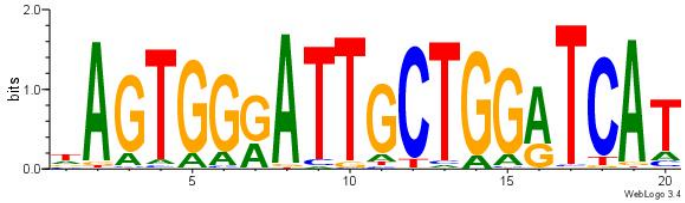

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.101029

Alignment:

```
AAGACCTTCCAGTGGGACAA
-----GCTCCWGTGYGKCC-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

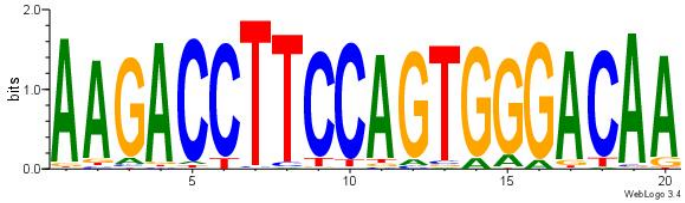

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

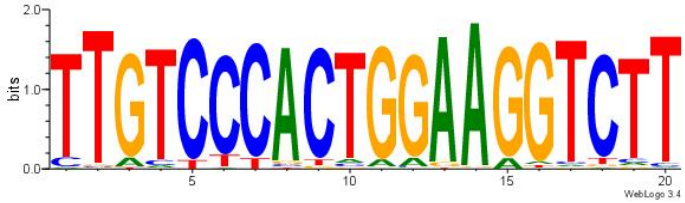

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.101055

Alignment:

```
GGTGCCCCTCTGGGACRAA
---GCTCCWGTGYGKCC--
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

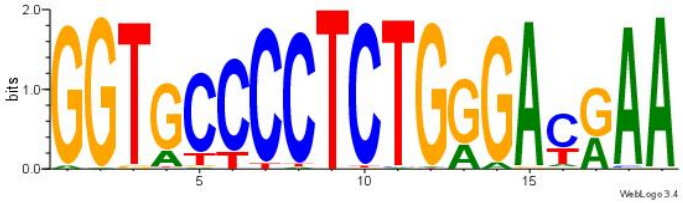

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

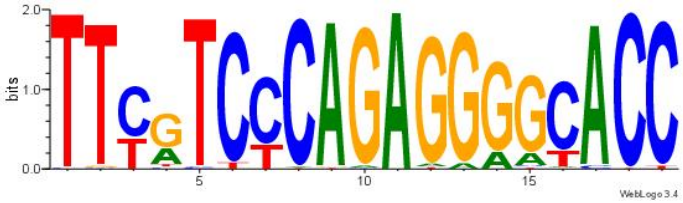

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.101646

Alignment:
AAAGTGCCGAGAKTGCAGC
GGRCKCACWGGAGC-----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

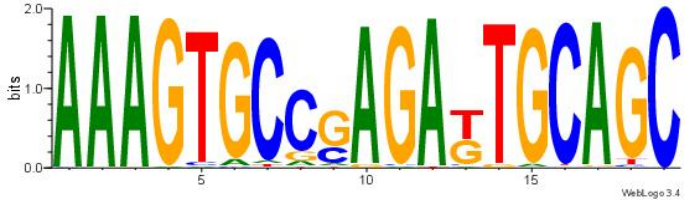

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

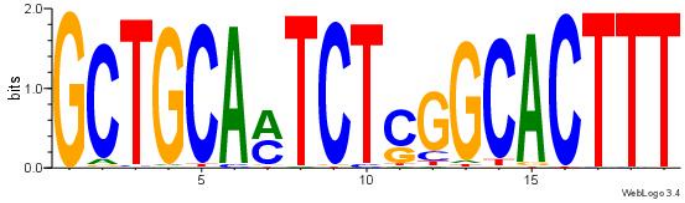

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.105252

Alignment:
ATCRCTTGAGSYCAGGAGKT
-GGRCKCACWGGAGC-----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

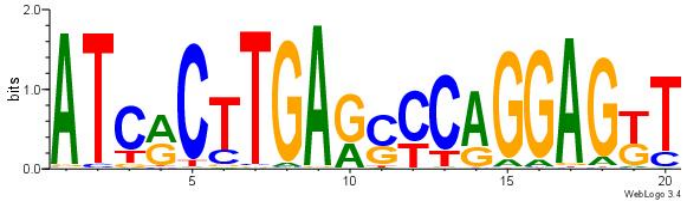

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

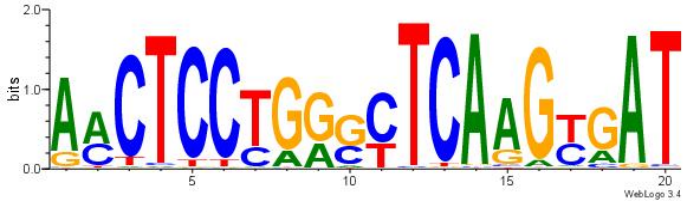

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.105483

Alignment:

```
TACACCCTCCGCAGCC
-GGRCKCACWGGAGC-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

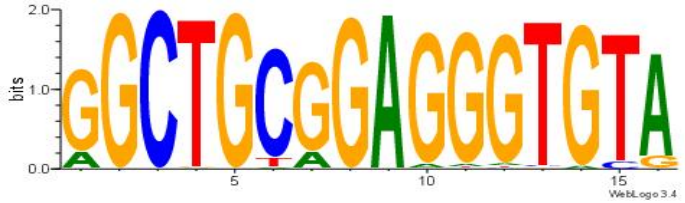

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

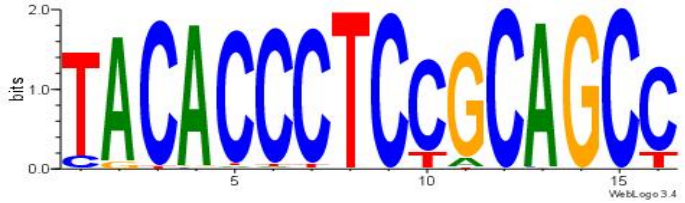

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.1071

Alignment:

```
TCCCTCCCGGACGGGGYGGC
--GCTCCWGTGYGKCC----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

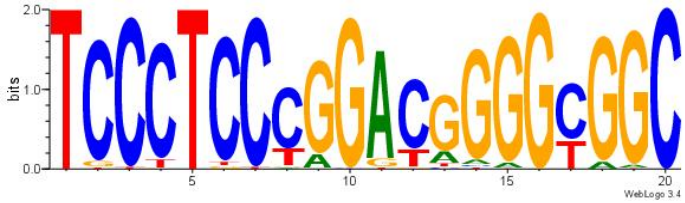

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

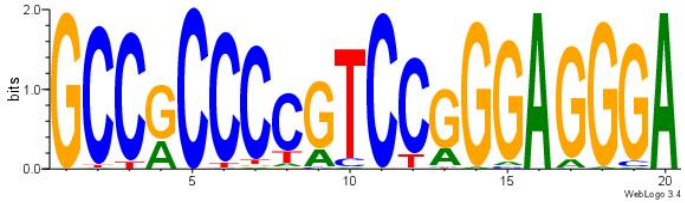

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.107348

Alignment:
AGTTCCGGGTGGGCGTGGG
-GCTCCWGTGYGKCC----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

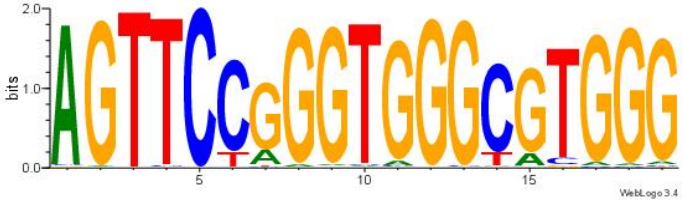

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

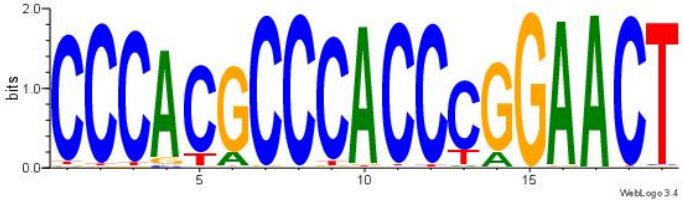

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.107674

Alignment:
AAGTTCTKGGKTACATGTGC
------GGRCKCACWGGAGC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

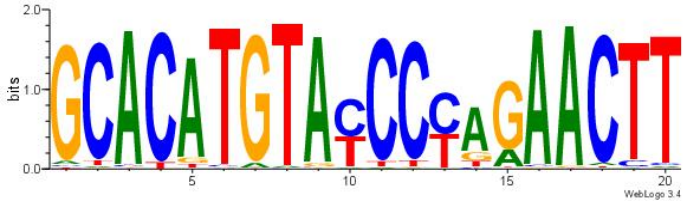

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

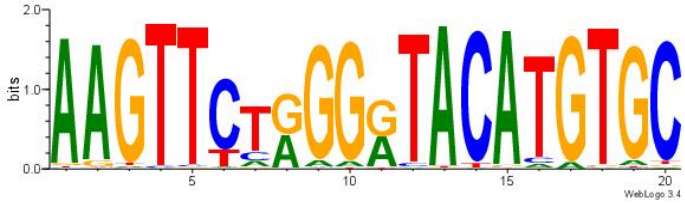

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.108699

Alignment:

```
KGGGCDGAGGGGCTCCT
-GGRCKCACWGGAGC--
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

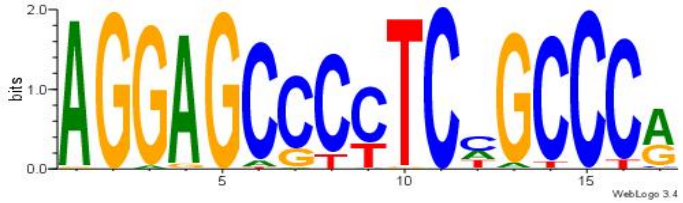

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

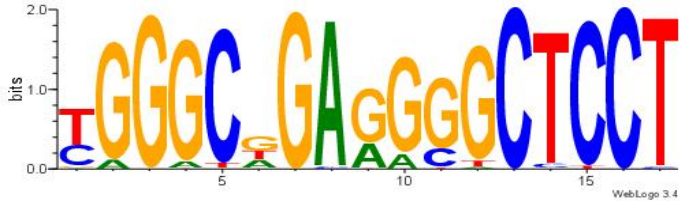

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.109156

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
--GCTCCWGTGYGKCC----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

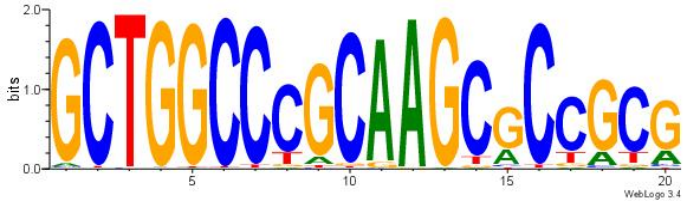

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

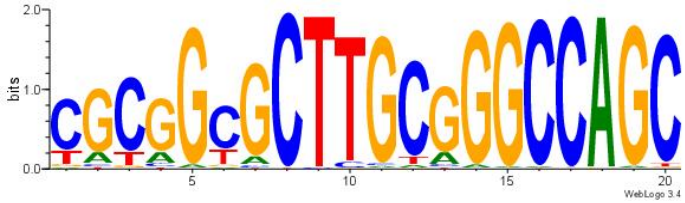

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.109633

Alignment:
CGCCCGGCCAGCCGC
GGRCKCACWGGAGC-

Original motif Consensus sequence: CGCCCGGCCAGCCGC

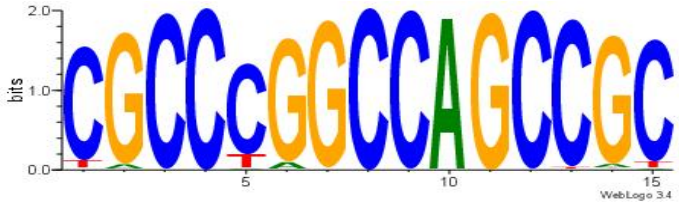

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

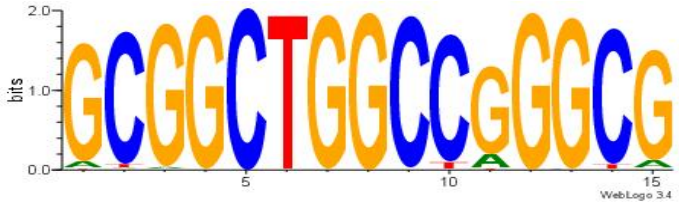

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.110666

Alignment:
CAAGGGTATAYGAGTAGCTG
--GGRCKCACWGGAGC----

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

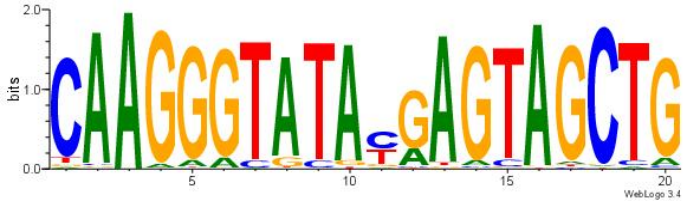

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

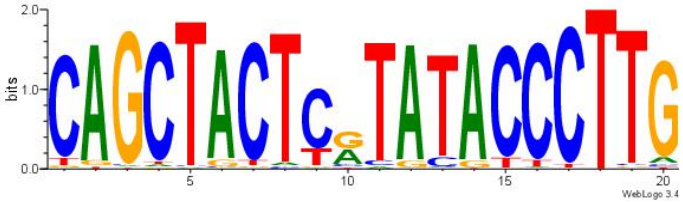

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.111556

Alignment:

```
GCTCTCAATTGGTCATT
GCTCCWGTGYGKCC---
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

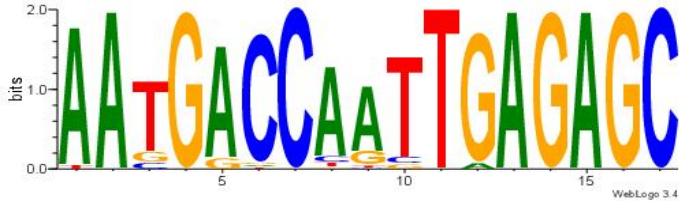

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

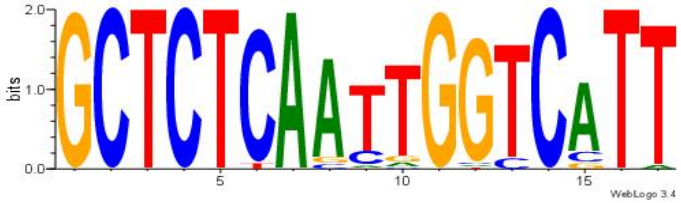

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.111607

Alignment:

```
CCTCCGTGGGCTCC
GCTCCWGTGYGKCC
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

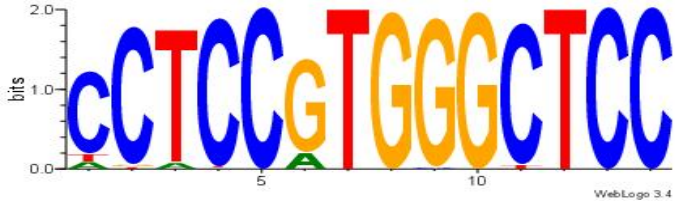

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

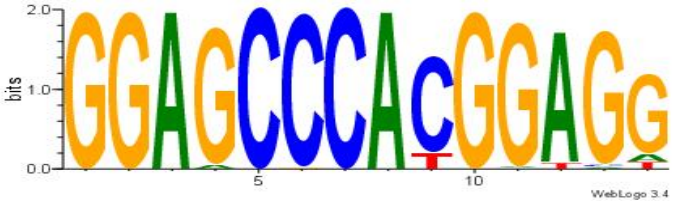

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.11178

Alignment:
CGAGCCTCCCCGAYGAGCGC
----GCTCCWGTGYGKCC--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

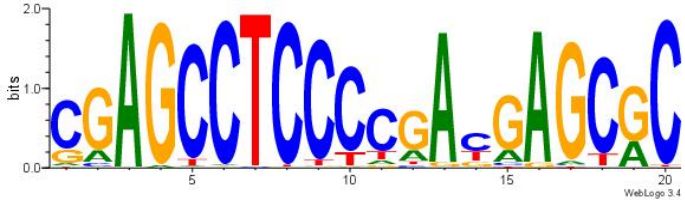

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

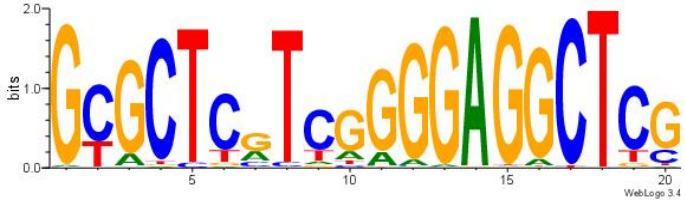

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.1118

Alignment:
TCKMGCCACTGCACTCCAGC
----GCTCCWGTGYGKCC--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

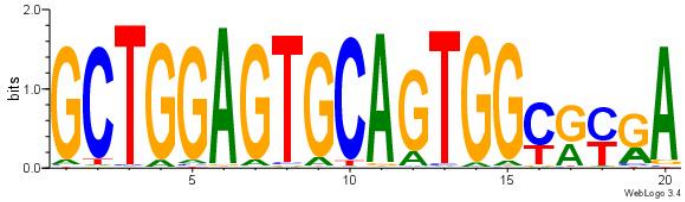

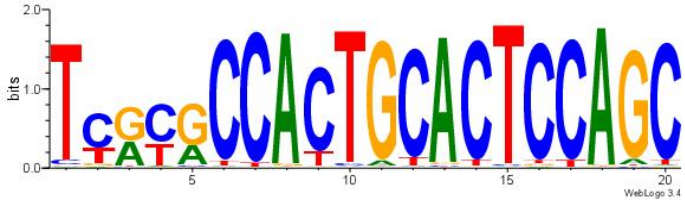

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.111823

Alignment:

```
GCTTCTGGTGAGGGC
-GCTCCWGTGYGKCC
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

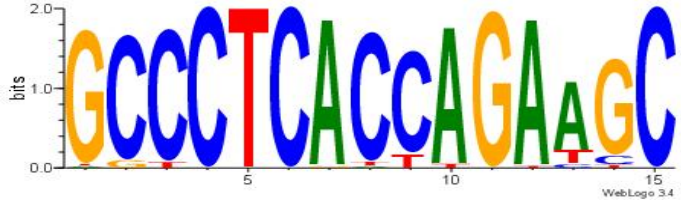

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

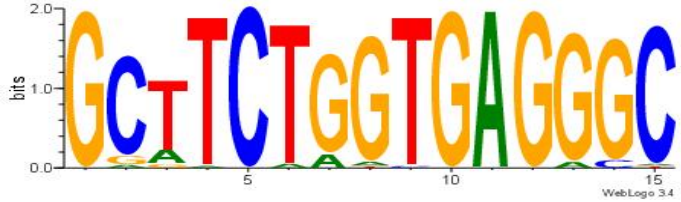

Dataset #:	1
Motif ID:	285

Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112306

Alignment:

GCTGGAGTGCAGTG
GCTCCWGTGYGKCC

Original motif Consensus sequence: CACTGCACTCCAGC

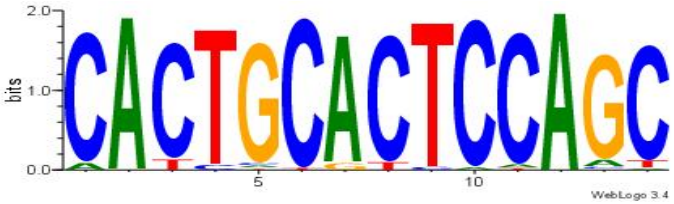

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

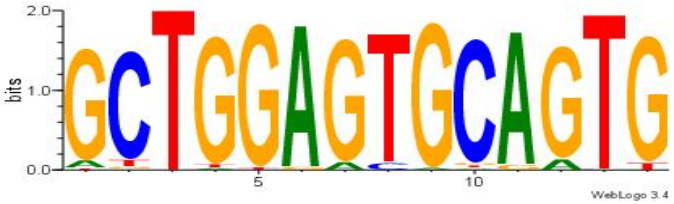

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.113375

Alignment:
TGGCTTCACCCAGTGGATCC
-----GGRCKCACWGGAGC-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

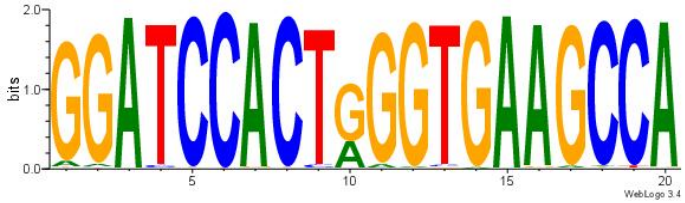

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

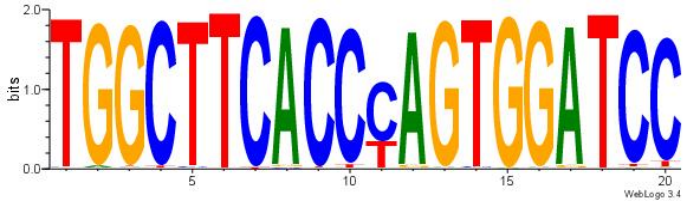

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.113719

Alignment:
GCGMGCGGGAACCGGGGCT
----GGRCKCACWGGAGC-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

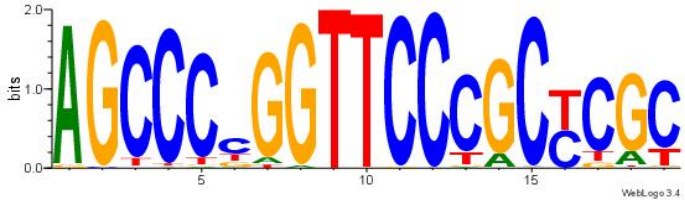

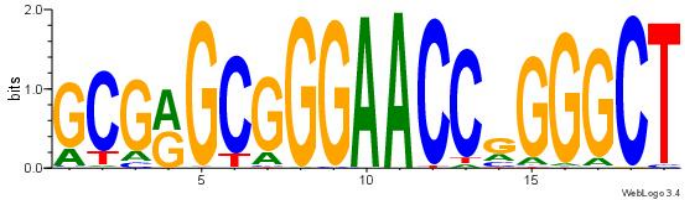

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.113766

Alignment:

```
GACCTGCAGCCCGCCATG
--GCTCCWGTGYGKCC--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

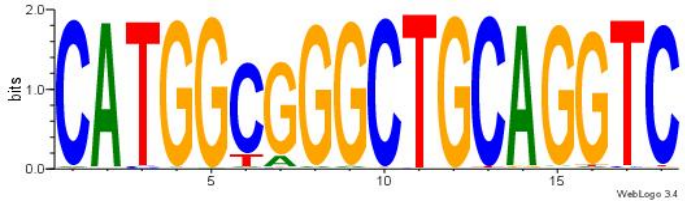

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

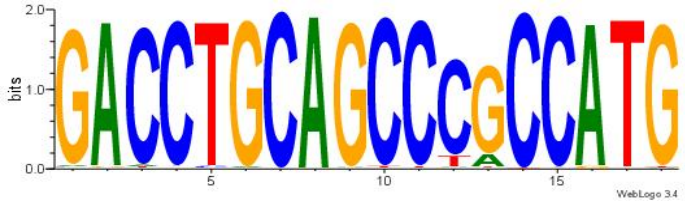

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.114137

Alignment:

```
TTGGTAGGATCCGTGATGCC
------GCTCCWGTGYGKCC
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

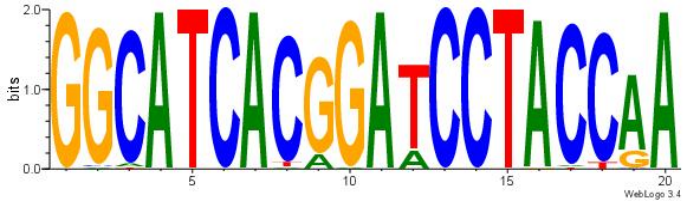

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

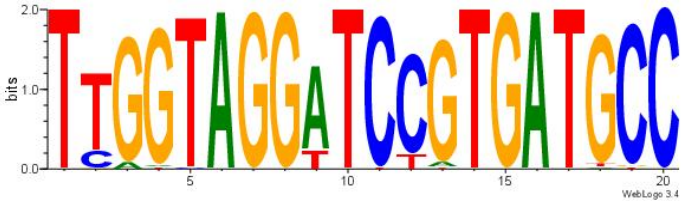

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.114483

Alignment:
GGGTGCAGGMGGGCTGAGT
GGRCKCACWGGAGC-----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

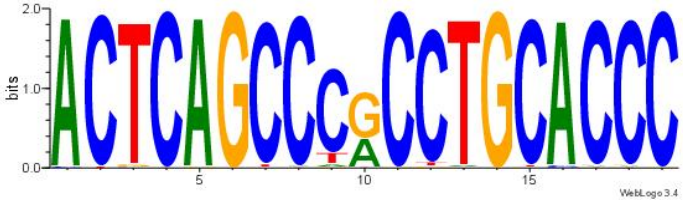

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

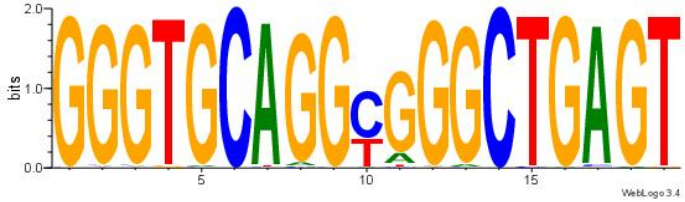

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.114618

Alignment:
MCCYGGCWSMGASGSTCCT
---GGRCKCACWGGAGC--

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

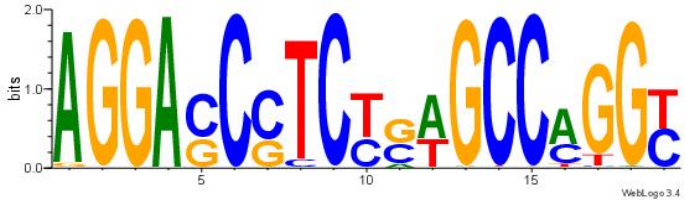

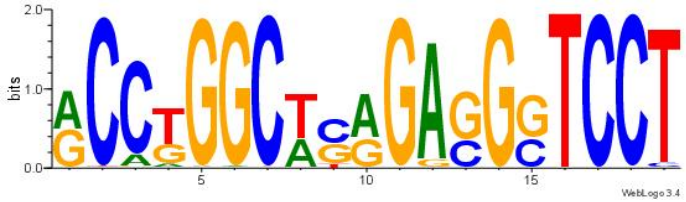

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.114864

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
---GGRCKCACWGGAGC---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

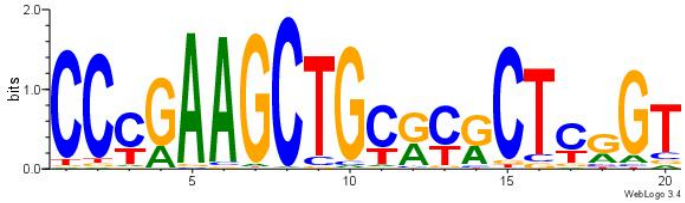

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

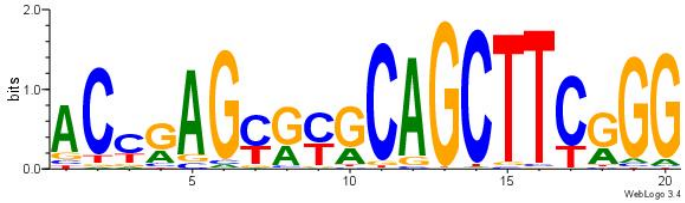

Dataset #:	1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.115218

Alignment:

```
BCVTCTGTCACCCC
GCTCCWGTGYGKCC
```

Original motif Consensus sequence: GGGGTGACAGABGB

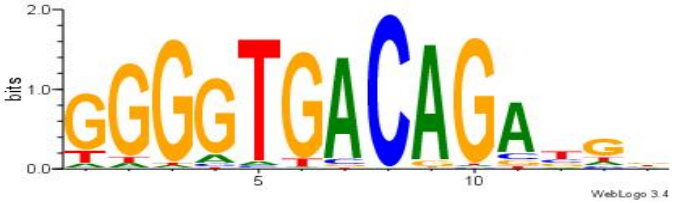

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

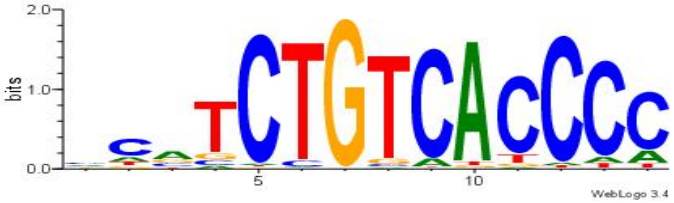

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.116052

Alignment:
ACAGGCTGTCCCAGGATTC
----GGRCKCACWGGAGC-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

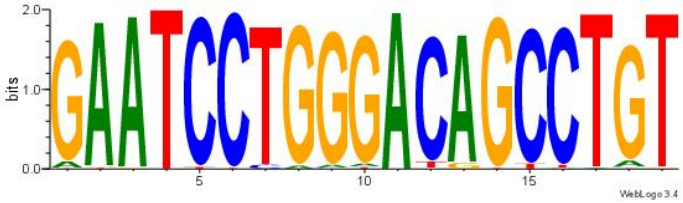

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

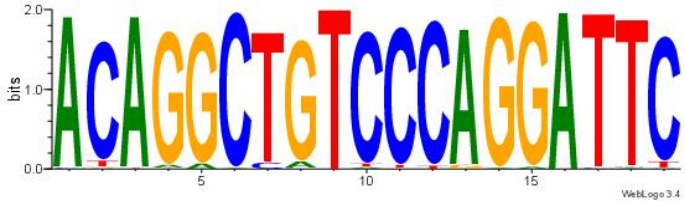

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.117234

Alignment:
ATGGACAYTTRGGTTGHTTC
----GGRCKCACWGGAGC--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

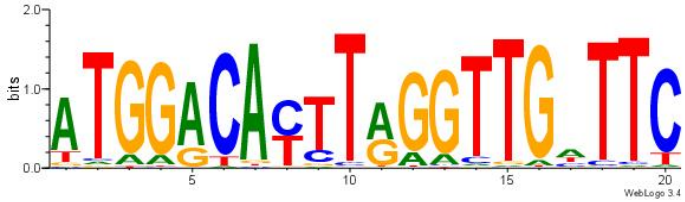

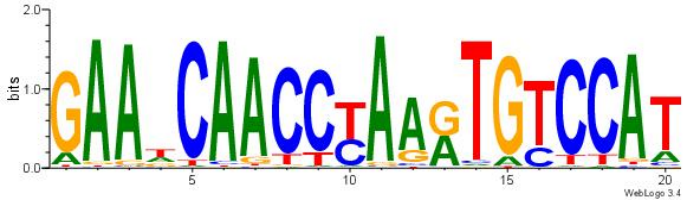

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.117456

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----GGRCKCACWGGAGC-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

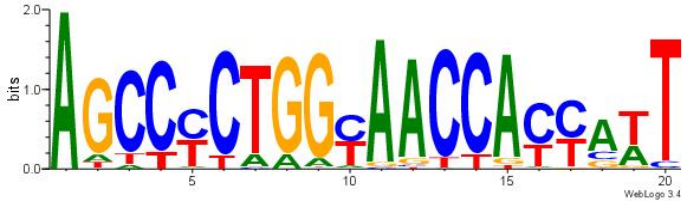

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

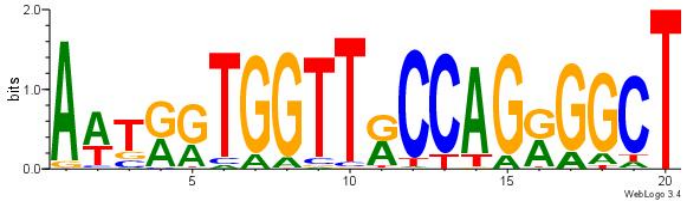

Dataset #:	1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.117879

Alignment:

```
GAGAACACATGGACA
GGRCKCACWGGAGC-
```

Original motif Consensus sequence: GAGAACACATGGACA

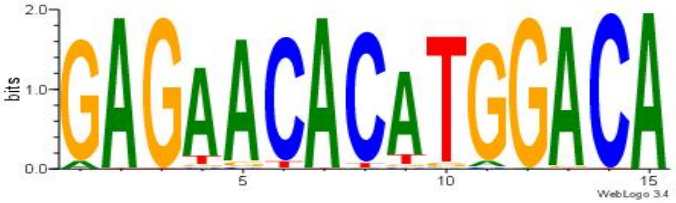

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

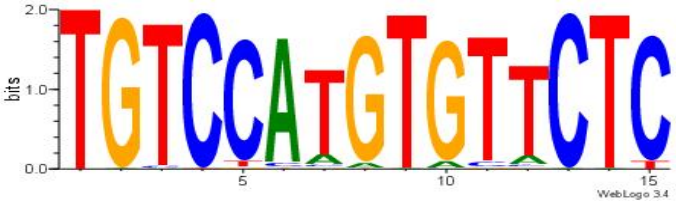

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.118495

Alignment:
GTGTGCGAATAGGTGT
--GGRCKCACWGGAGC

Original motif Consensus sequence: ACACCTATTCGCACAC

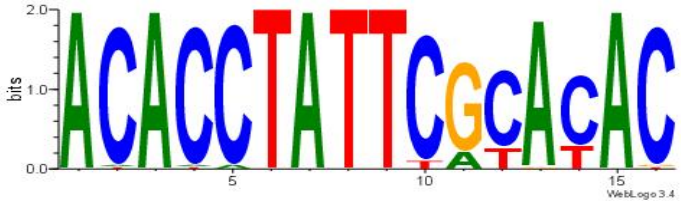

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

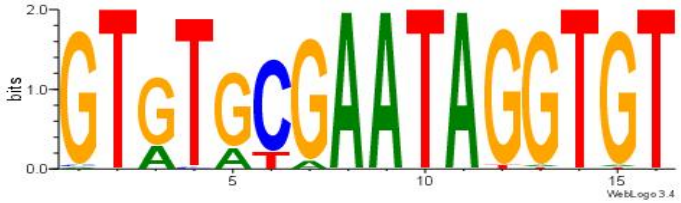

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.118588

Alignment:
AGACCAGCCTGGCCAAC
GCTCCWGTGYGKCC---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

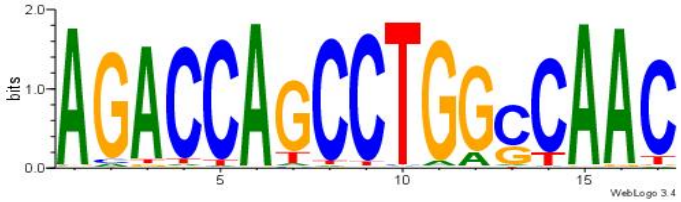

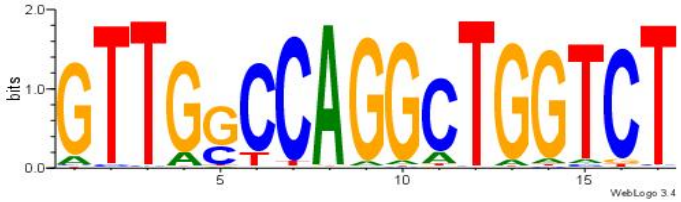

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.118697

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
---GGRCKCACWGGAGC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

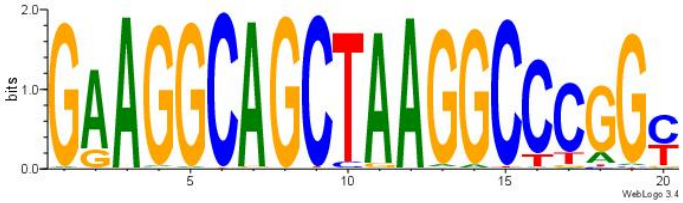

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

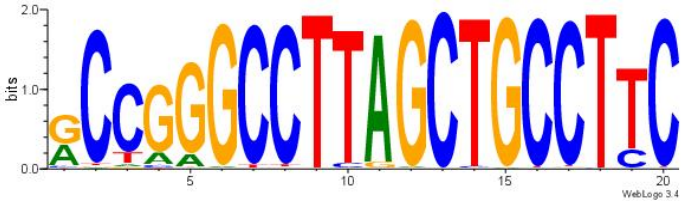

Dataset #:	1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.118828

Alignment:

```
TGAGKCAATTAAACCTCTT
GGRCKCACWGGAGC-----
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

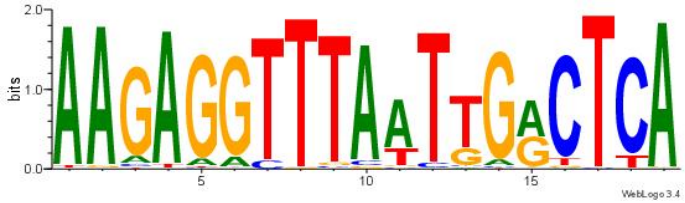

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

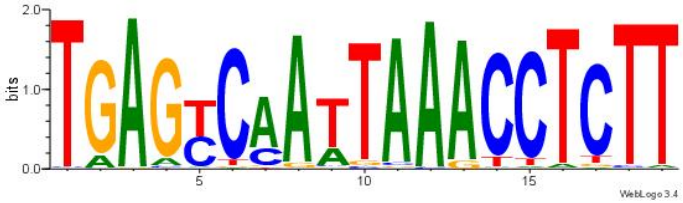

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.118892

Alignment:
GAGGAGGRGGAGGDGGV
-GGRCKCACWGGAGC--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

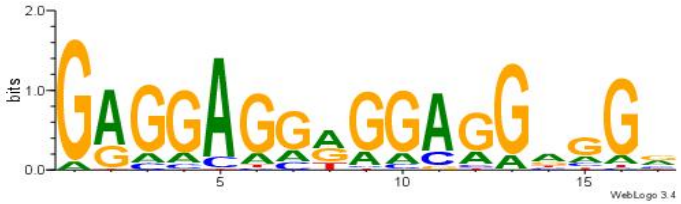

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

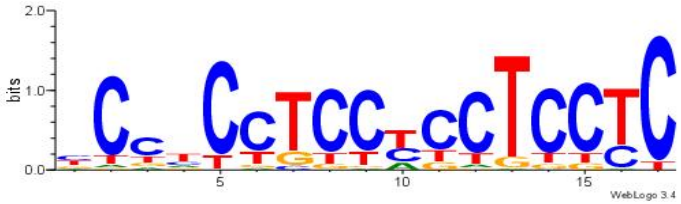

Dataset #: 1
Motif ID: 33
Motif name: Motif 33
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.119113

Alignment:
GAGACTCCGTGGGCGT
GCTCCWGTGYGKCC--

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

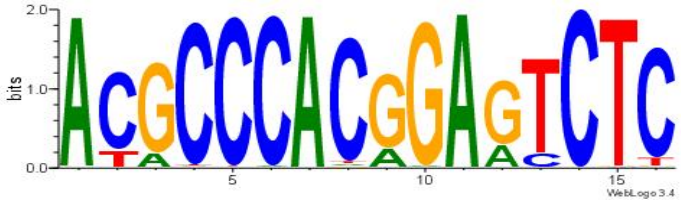

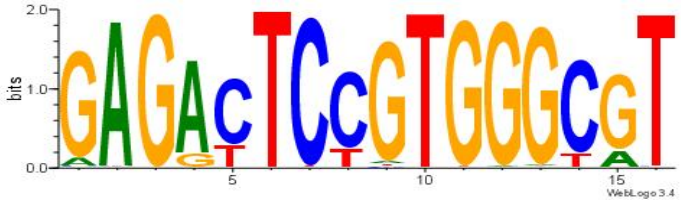

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.119523

Alignment:

```
GCCRGCCCTGCYGGCC
--GGRCKCACWGGAGC
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

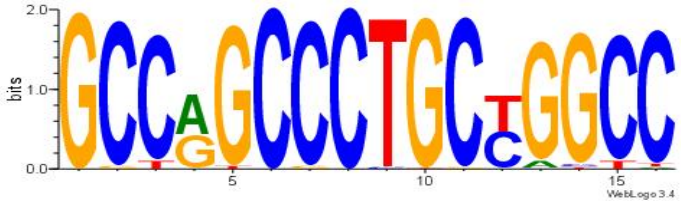

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

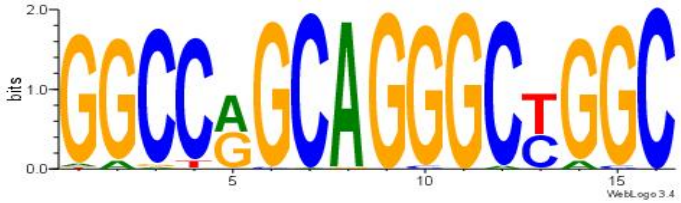

Dataset #:	1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.119549

Alignment:

```
TGCCCAGTCTGGAAAGTG
---GGRCKCACWGGAGC-
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

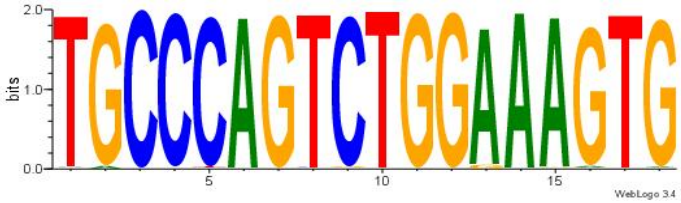

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

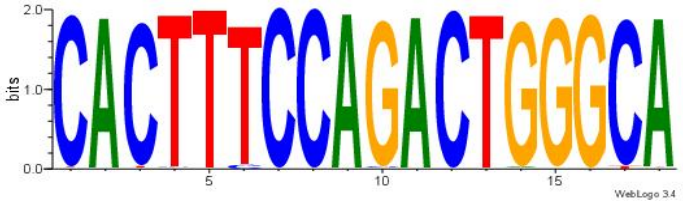

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.119657

Alignment:
GGGTCAGGGAGTTCCCTTTC
------GCTCCWGTGYGKCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

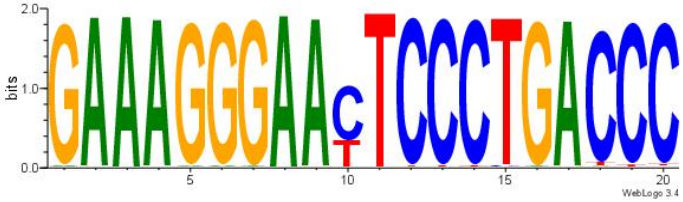

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

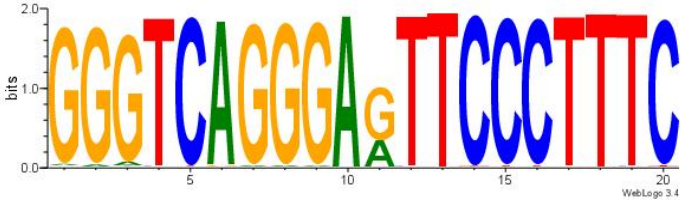

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.120137

Alignment:
GCCAGTCACAAAARGACAMA
---GGRCKCACWGGAGC---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

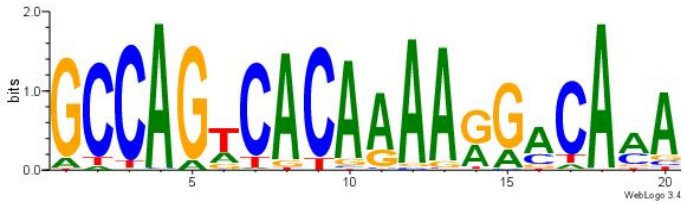

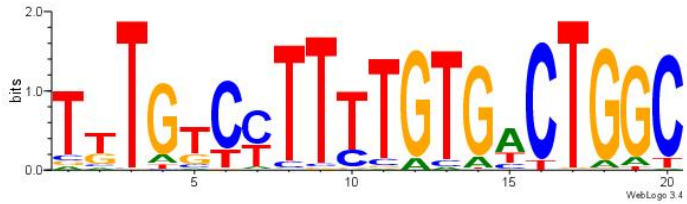

Dataset #: 1 **Motif ID: 207** **Motif name: Motif 207**

Original motif Consensus sequence: GACCTTGA

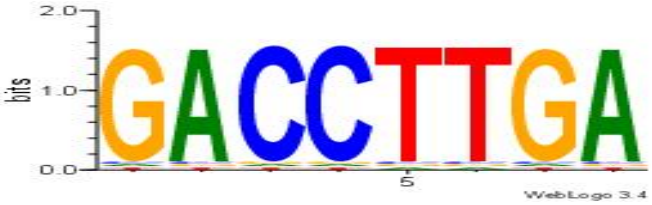

Reverse complement motif Consensus sequence: TCAAGGTC

Best Matches for Motif ID 207 (Highest to Lowest)

Dataset #:	1
Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0145765

Alignment:

```
TGGACCTTGAG
-GACCTTGA--
```

Original motif Consensus sequence: CTCAAGGTCCA

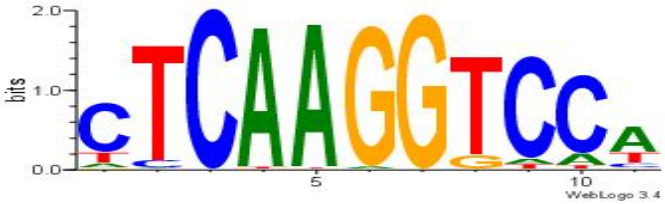

Reverse complement motif Consensus sequence: TGGACCTTGAG

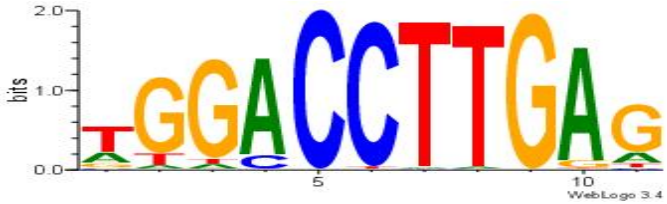

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0364604

Alignment:

```
TGTGACCTTGG
---GACCTTGA
```

Original motif Consensus sequence: CCAAGGTCACA

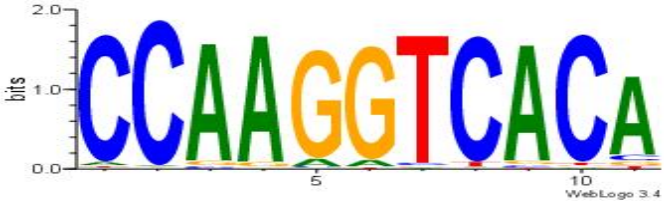

Reverse complement motif Consensus sequence: TGTGACCTTGG

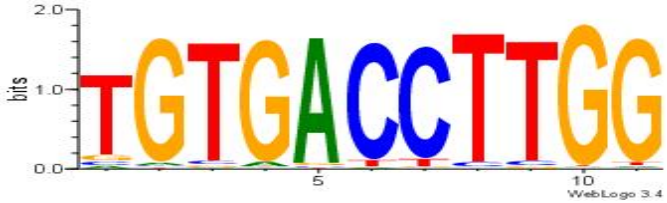

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0423228

Alignment:

```
GCTCTGAAGGTCC
----TCAAGGTC-
```

Original motif Consensus sequence: GCTCTGAAGGTCC

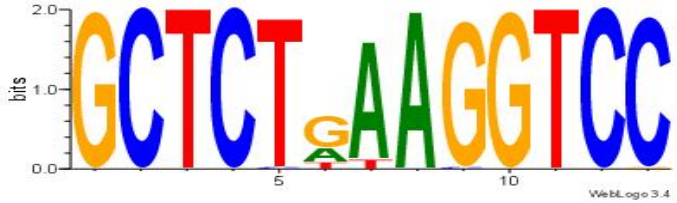

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

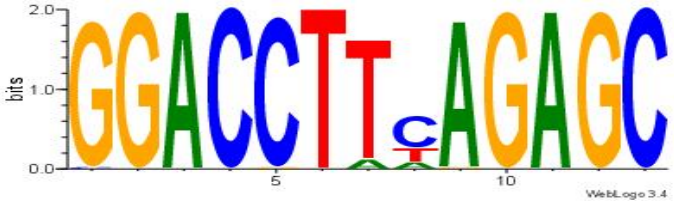

Dataset #:	1
Motif ID:	302
Motif name:	Motif 302
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8

Similarity score: 0.0468349

Alignment:
GCTCTCAGGGTC
----TCAAGGTC

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

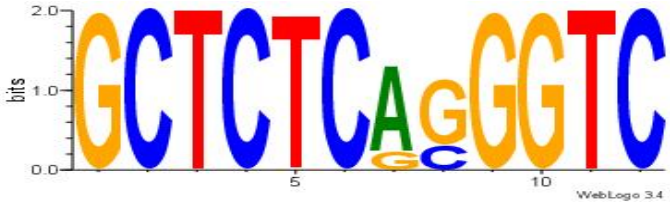

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 8
Similarity score: 0.0507846

Alignment:
KACATTGATTTTGTATC
GACCTTGA---------

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

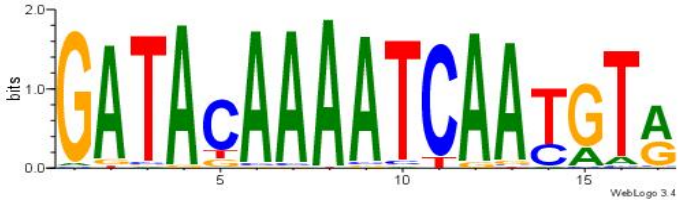

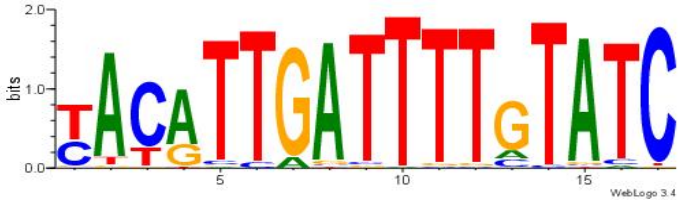

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.052151

Alignment:

```
AAGTCCAAGATCAAGGTGYY
--TCAAGGTC----------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

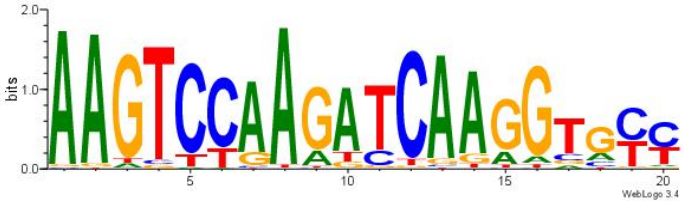

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

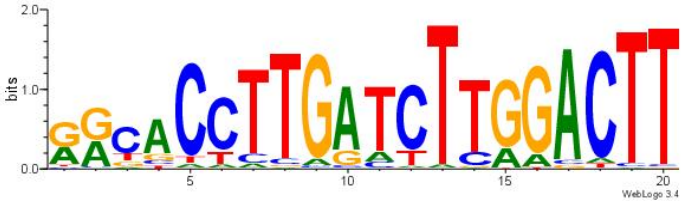

Dataset #: 1

Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0568181

Alignment:

```
CTGGTCAAGGAAA
----TCAAGGTC-
```

Original motif Consensus sequence: CTGGTCAAGGAAA

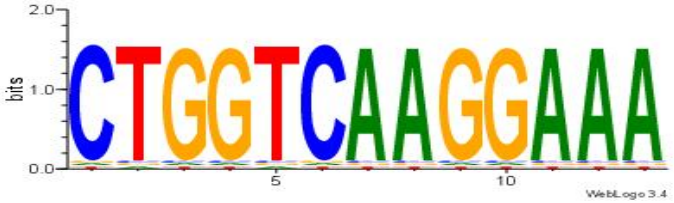

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

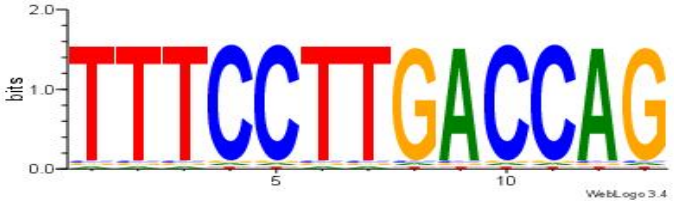

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0644423

Alignment:
TTGTCCCACTGGAAGGTCTT
----------TCAAGGTC--

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

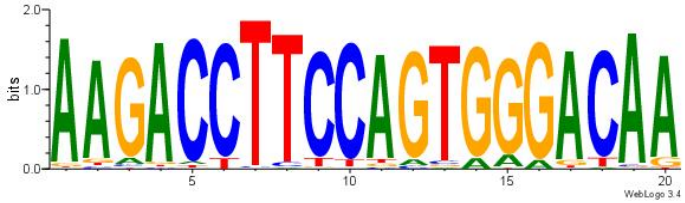

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

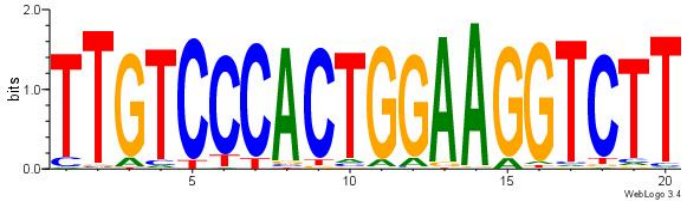

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0644975

Alignment:
ATGGACTTGAGA
--GACCTTGA--

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.064921

Alignment:

```
GACATGGAGTCAAAGG
GACCTTGA--------
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

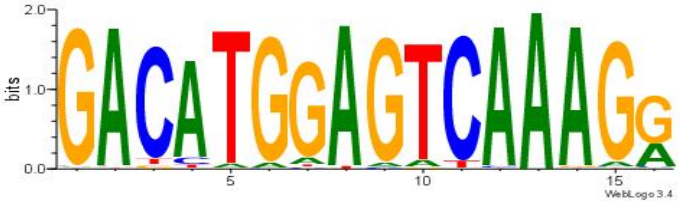

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

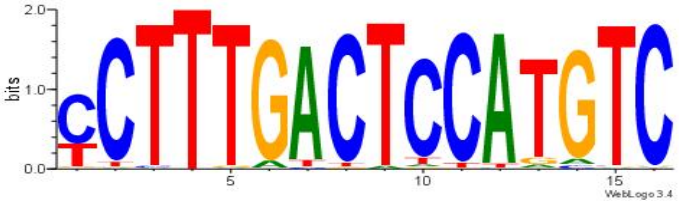

Dataset #: 1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0650423

Alignment:

```
CTCCTGACCTCGTGATC
----GACCTTGA-----
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

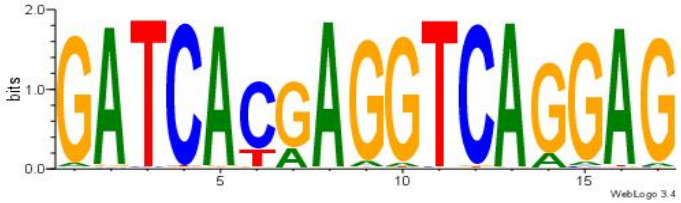

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

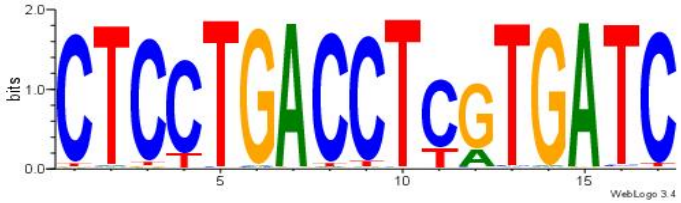

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8

Similarity score: 0.0651115

Alignment:
AGGTCCTTCAGGAGGTATTC
--GACCTTGA----------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

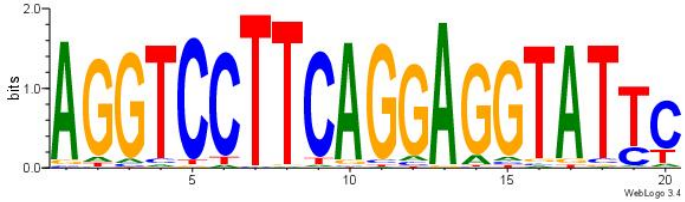

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

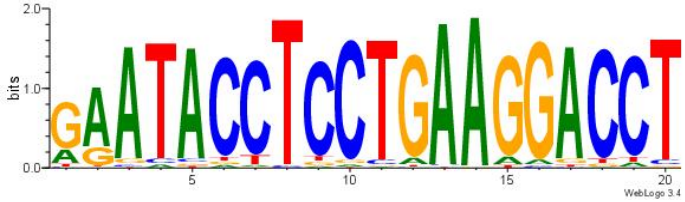

Dataset #: 1
Motif ID: 340
Motif name: Motif 340
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 8
Similarity score: 0.0656741

Alignment:
GCTCTCTGGGTC
----TCAAGGTC

Original motif Consensus sequence: GACCCAGAGAGC

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

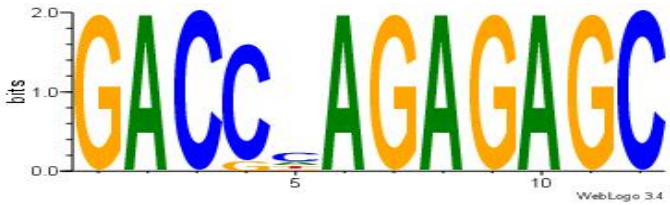

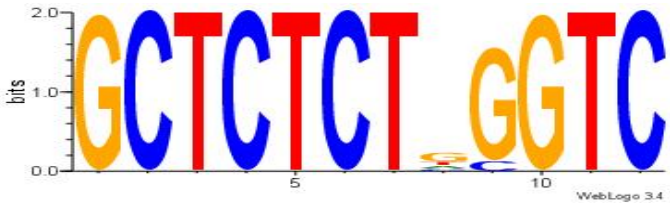

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0657663

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---------GACCTTGA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

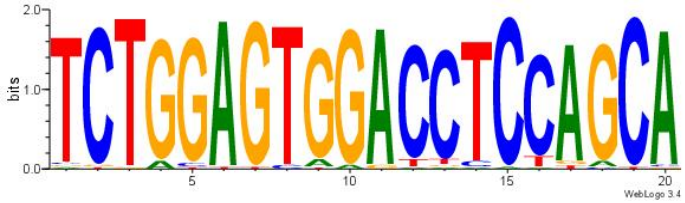

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

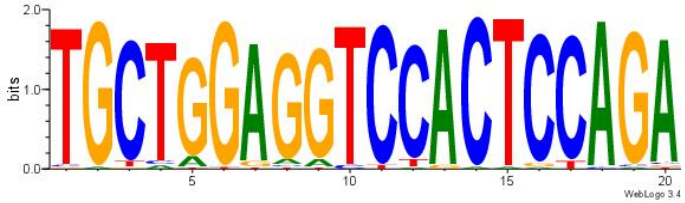

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0666908

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-------GACCTTGA-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

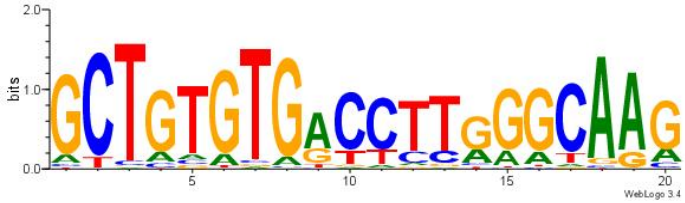

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

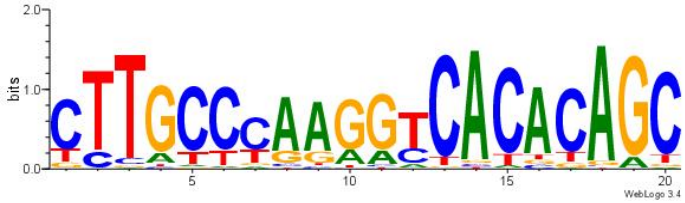

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8

Similarity score: 0.066923

Alignment:
ATATTGATGATCCTGACC
--------GACCTTGA--

Original motif Consensus sequence: ATATTGATGATCCTGACC

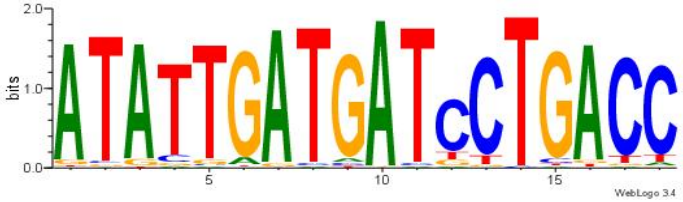

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

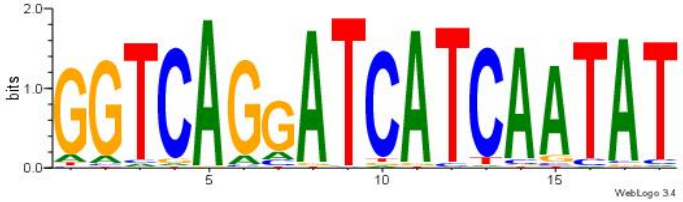

Dataset #: 1
Motif ID: 346
Motif name: Motif 346
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 8
Similarity score: 0.0681858

Alignment:
AAATCTTAAAGCTC
------TCAAGGTC

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

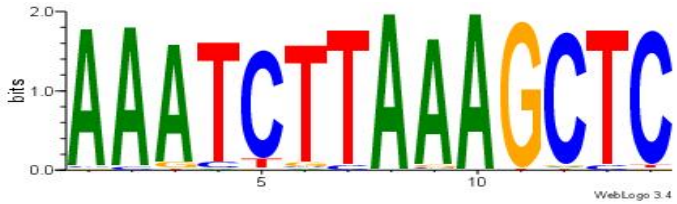

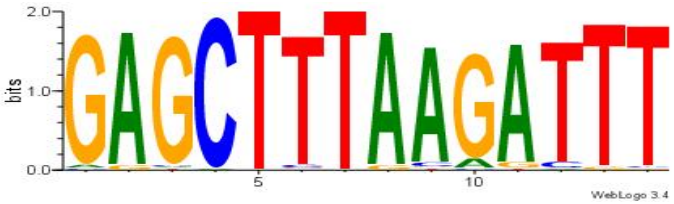

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0687226

Alignment:

```
GACCAMGAACCCA
GACCTTGA-----
```

Original motif Consensus sequence: GACCAMGAACCCA

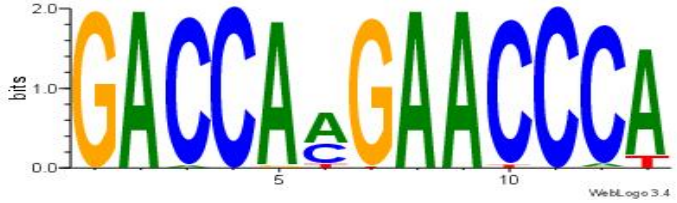

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

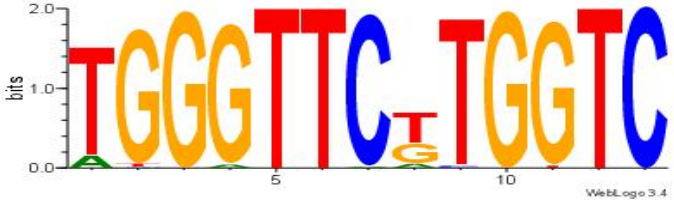

Dataset #:	1
Motif ID:	68

Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0690051

Alignment:

```
CATGGCGGGCTGCAGGTC
TCAAGGTC----------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

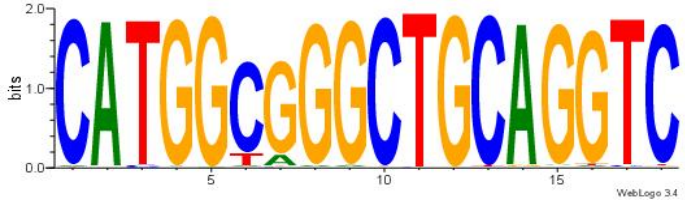

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

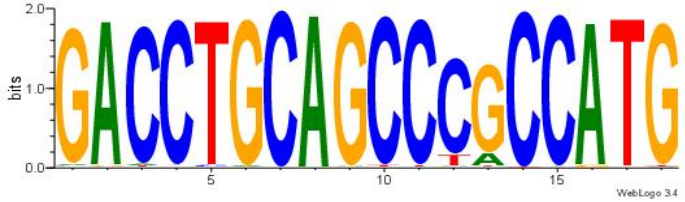

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0703281

Alignment:
AGGAGGAAGTCAATTTC
---------TCAAGGTC

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

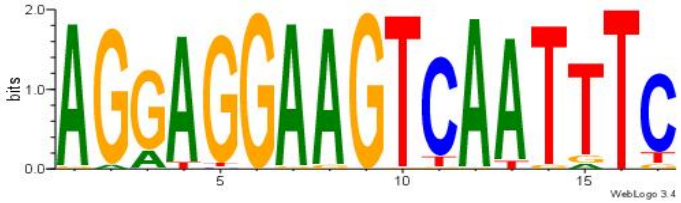

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

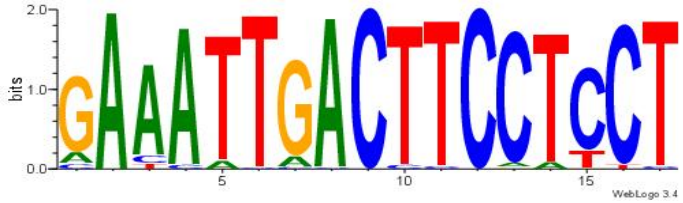

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0706603

Alignment:
CCACCACAGCTCAAGGAGGC
----------TCAAGGTC--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

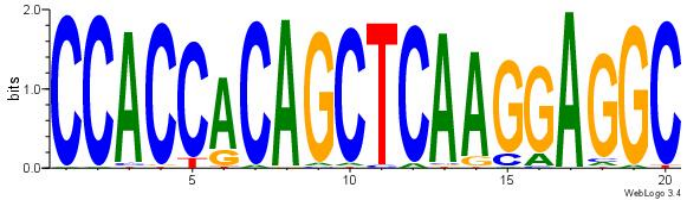

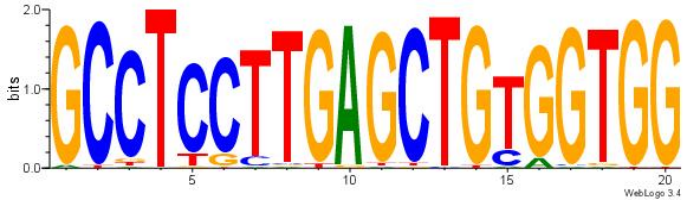

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0713731

Alignment:

```
CTCCAGKTMCATCCATGTTG
-TCAAGGTC-----------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

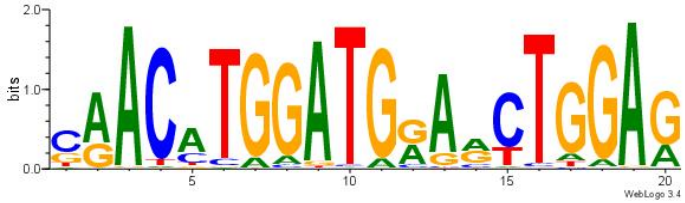

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

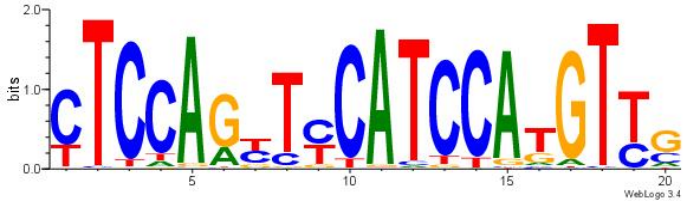

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0726314

Alignment:

```
AGGGATCTAGGTTGCR
-----TCAAGGTC---
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

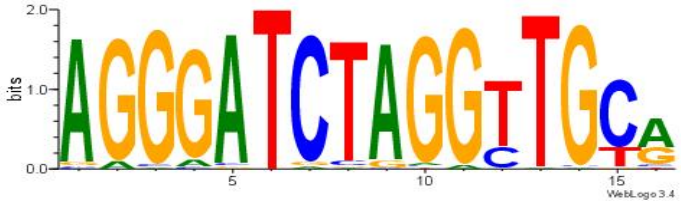

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

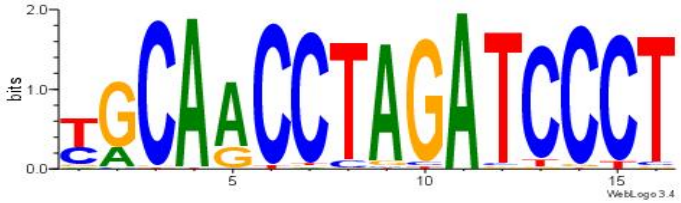

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8

Similarity score: 0.0774699

Alignment:
CCCAAATCTCATSTTGAAT
---------GACCTTGA--

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

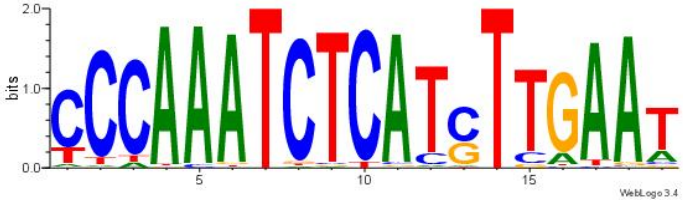

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

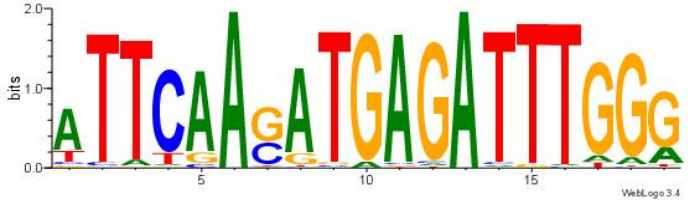

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 12
Number of overlap: 8
Similarity score: 0.0786934

Alignment:
ARCTCCTGKSCTCAAGKGAT
-----------TCAAGGTC-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

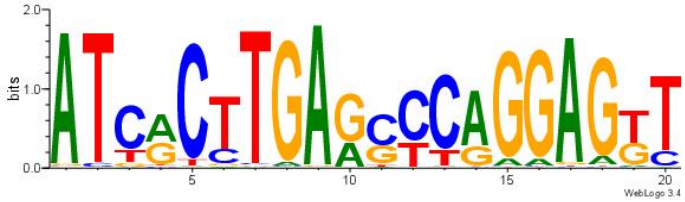

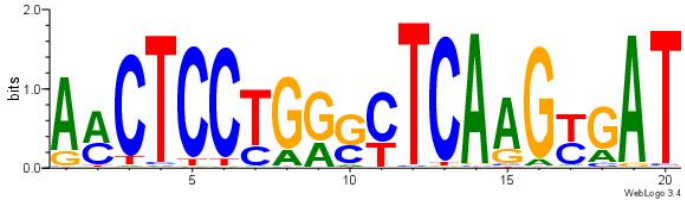

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0807412

Alignment:

```
AAGGGACATTKGAG
----GACCTTGA--
```

Original motif Consensus sequence: AAGGGACATTKGAG

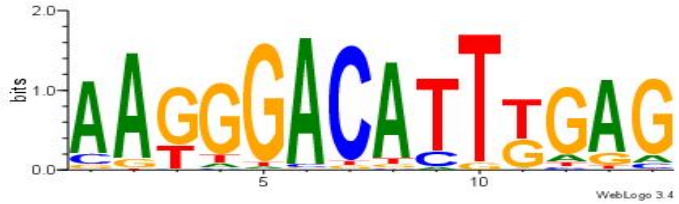

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

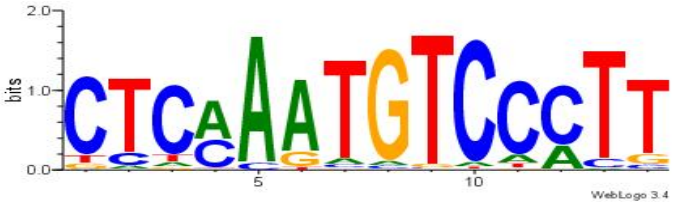

Dataset #:	1
Motif ID:	85

Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0832022

Alignment:

```
CTAGACATAAAGGTTCTCCA
-----TCAAGGTC-------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

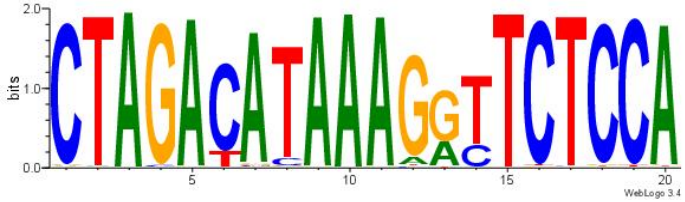

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

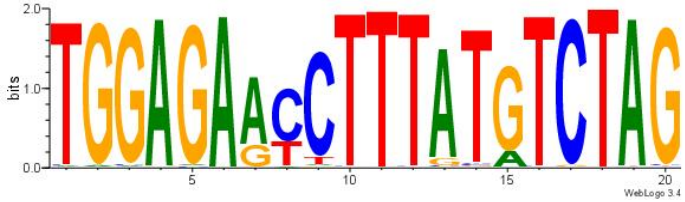

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0836852

Alignment:
GCTGGCCCGCAAGCGCCGCG
----TCAAGGTC--------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

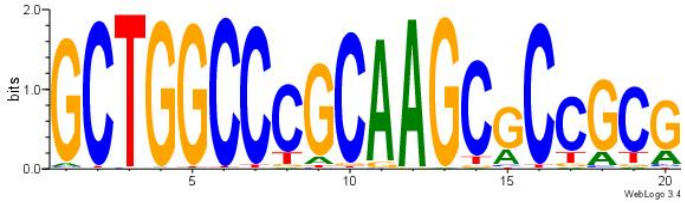

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

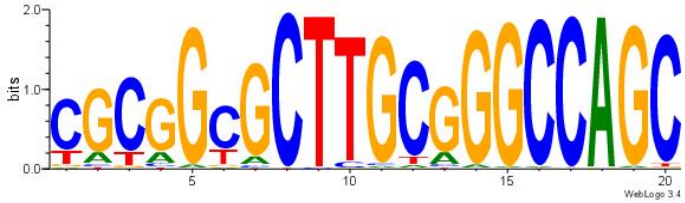

Dataset #:	1
Motif ID:	352
Motif name:	Motif 352
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
CATCTTCA
GACCTTGA

Original motif Consensus sequence: CATCTTCA

Reverse complement motif Consensus sequence: TGAAGATG

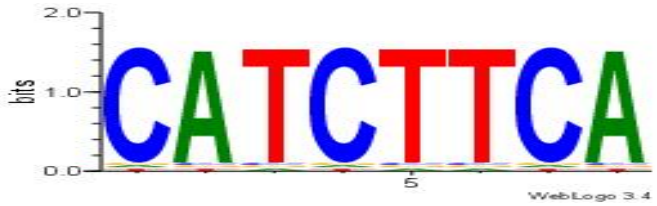

Dataset #:	1
Motif ID:	238
Motif name:	Motif 238
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
CGCCCATGT
-GACCTTGA
```

Original motif Consensus sequence: ACATGGGCG

Reverse complement motif Consensus sequence: CGCCCATGT

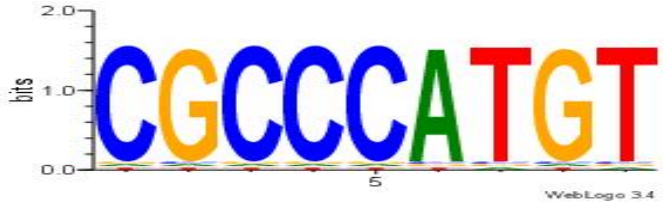

Dataset #:	1
Motif ID:	324

Motif name:	Motif 324
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
TACAGGTGCGT
TCAAGGTC---
```

Original motif Consensus sequence: ACGCACCTGTA

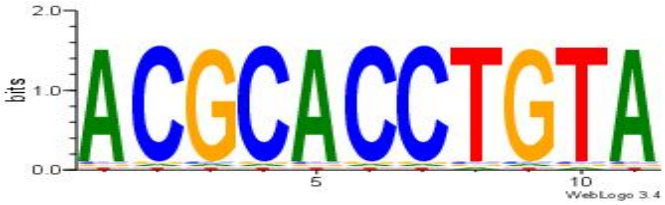

Reverse complement motif Consensus sequence: TACAGGTGCGT

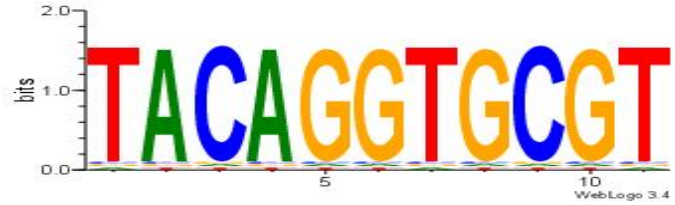

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
CACATGGAAGC
GACCTTGA---

Original motif Consensus sequence: CACATGGAAGC

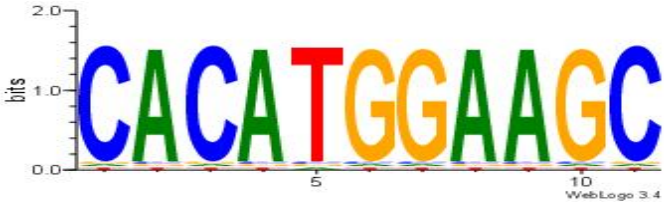

Reverse complement motif Consensus sequence: GCTTCCATGTG

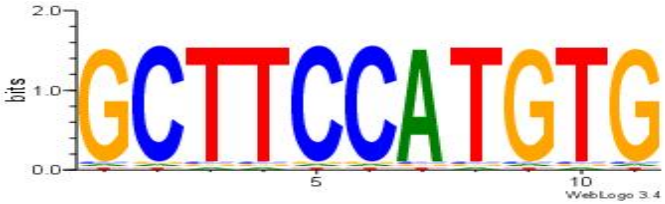

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0869899

Alignment:
GGATGGTGAGGGC
-GACCTTGA----

Original motif Consensus sequence: GCCCTCACCATCC

Reverse complement motif Consensus sequence: GGATGGTGAGGG

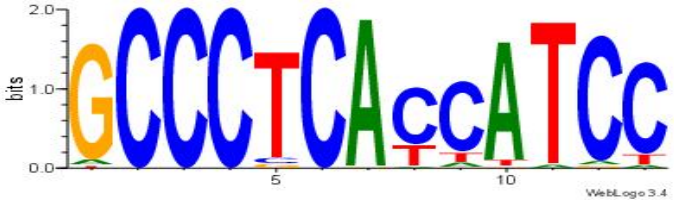

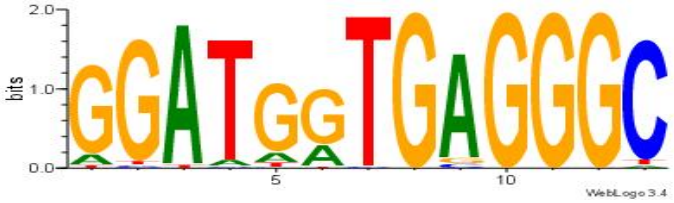

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0882551

Alignment:

```
GCAWSTGCAAAGGCCCT
------TCAAGGTC---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

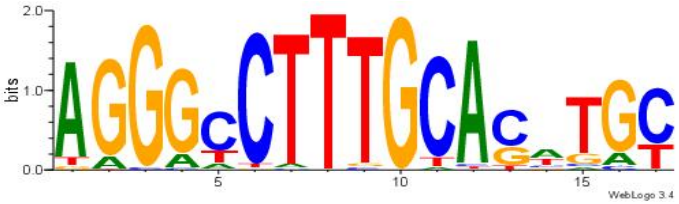

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

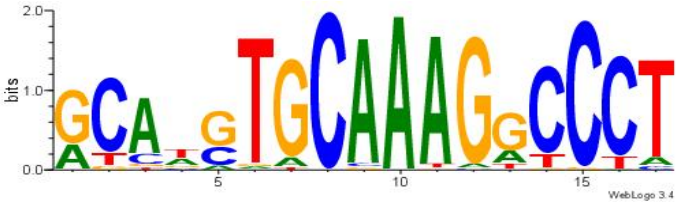

Dataset #: 1

Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0885951

Alignment:

```
GGTTCAAGCGATT
---TCAAGGTC--
```

Original motif Consensus sequence: AATCGCTTGAACC

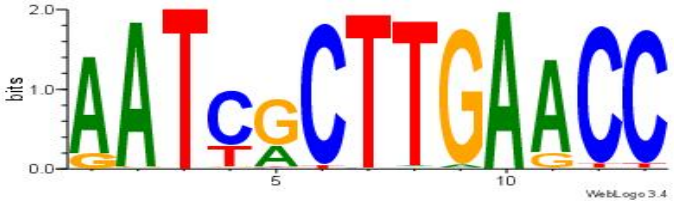

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0894221

Alignment:
AGAAATCGAGCRCAGCGCCG
-------TCAAGGTC-----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

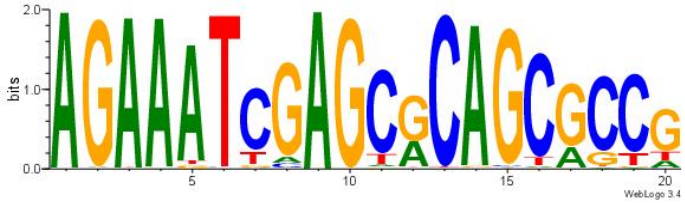

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

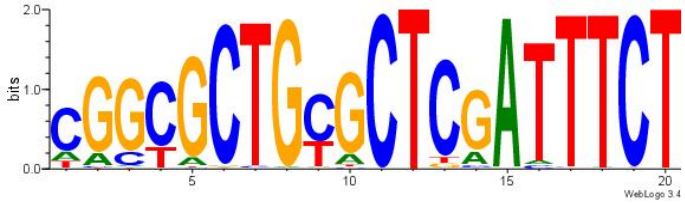

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0901878

Alignment:
CGTCGCTCACGCTGGGAGCT
------TCAAGGTC------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

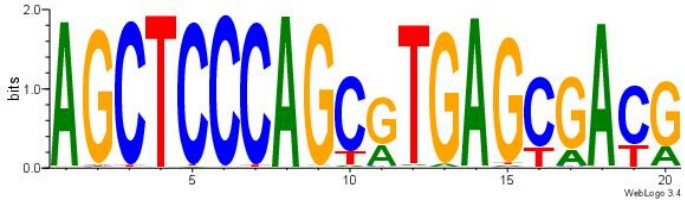

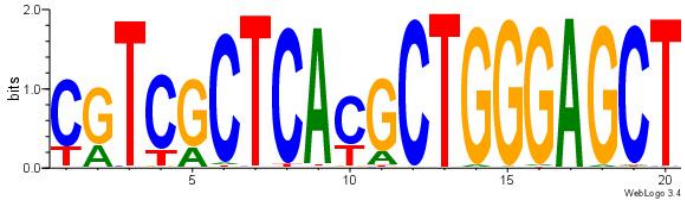

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0901976

Alignment:

```
CCCACGCCCACCCGGAACT
---GACCTTGA--------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

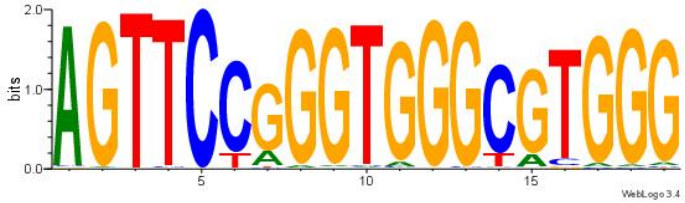

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

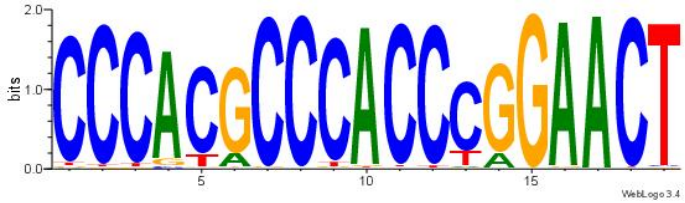

Dataset #:	1

Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0902821

Alignment:

```
AGTTCTTAAAGATGGT
------TCAAGGTC--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

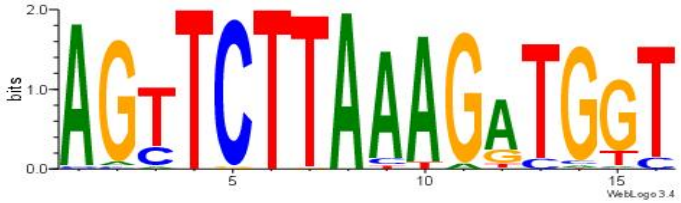

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

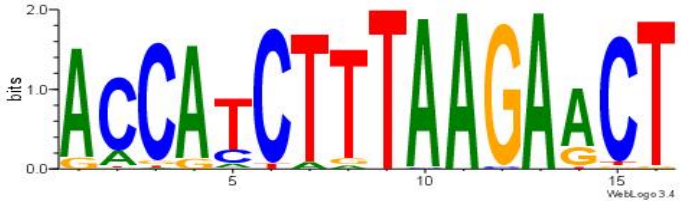

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0902936

Alignment:
TCAATGGGCTCCCAAATG
TCAAGGTC----------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

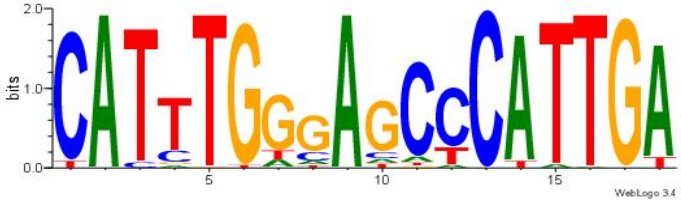

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

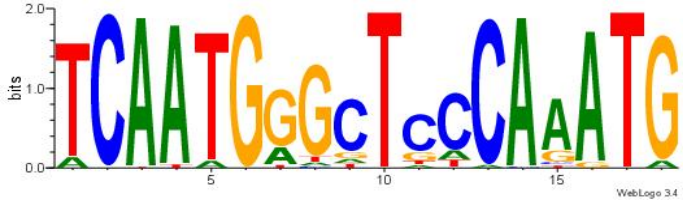

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0902976

Alignment:
ACTGTCTTCCACCTCCACAT
---------GACCTTGA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

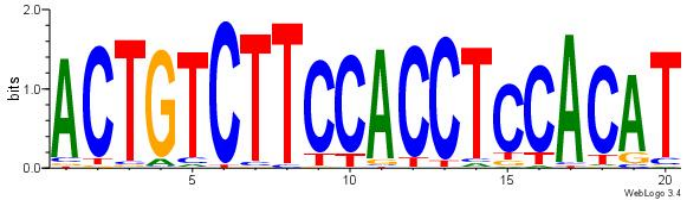

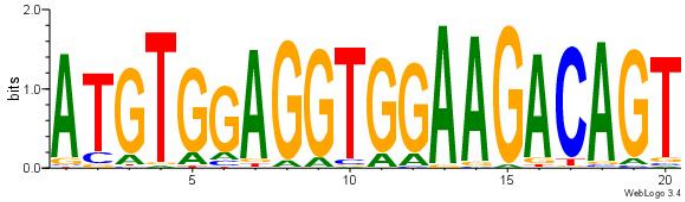

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0907166

Alignment:

```
TCCAAATGGGAGAAATTGGC
-----------GACCTTGA-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

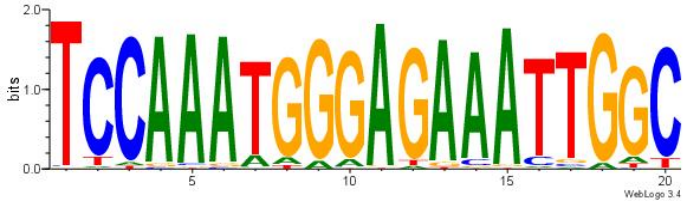

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

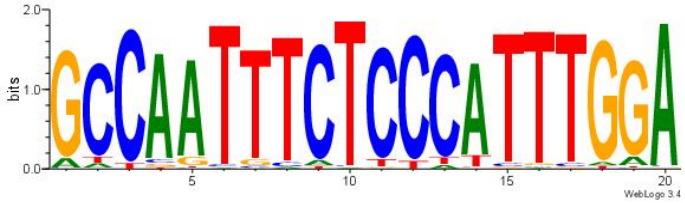

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0908925

Alignment:

```
CAAGCGCCAGCTCATGTC
-----TCAAGGTC-----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

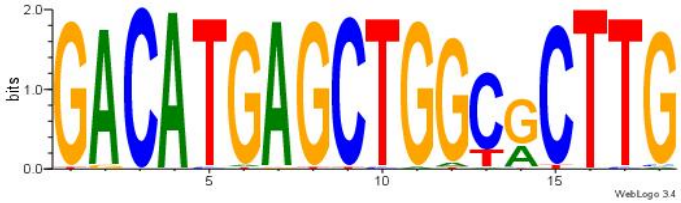

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

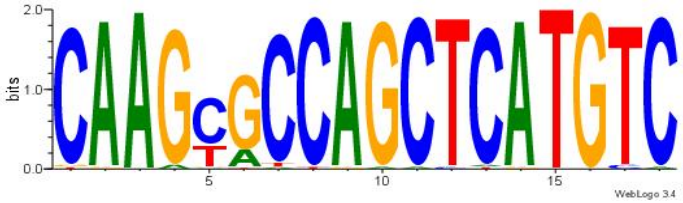

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0911727

Alignment:
GCTCACTGCAASCTC
TCAAGGTC-------

Original motif Consensus sequence: GCTCACTGCAASCTC

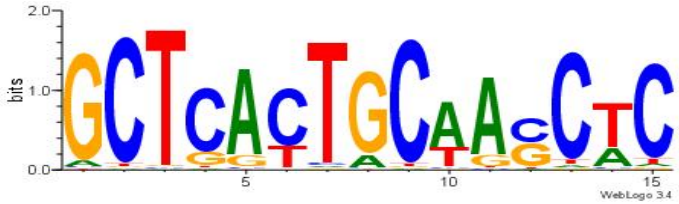

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

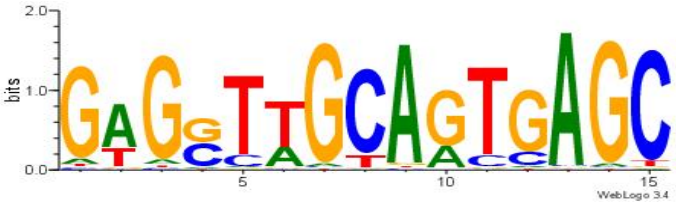

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 8
Similarity score: 0.0913782

Alignment:
ACTTTGGACTGTGGACTTTT
------GACCTTGA------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

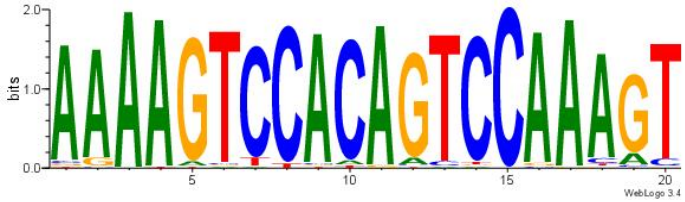

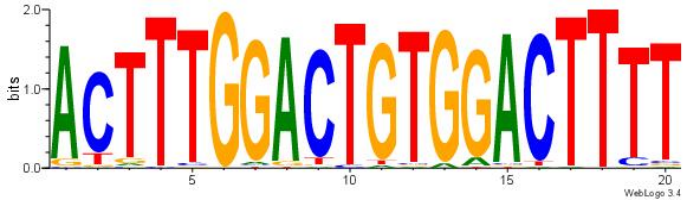

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0919782

Alignment:

```
CTGAGGACCTGAGGTCRTA
--------TCAAGGTC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

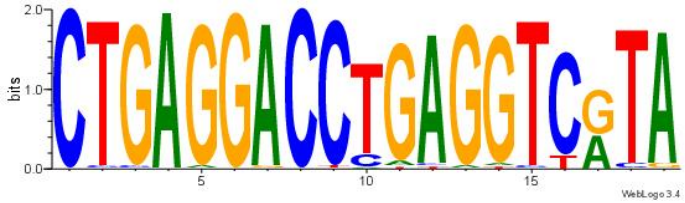

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

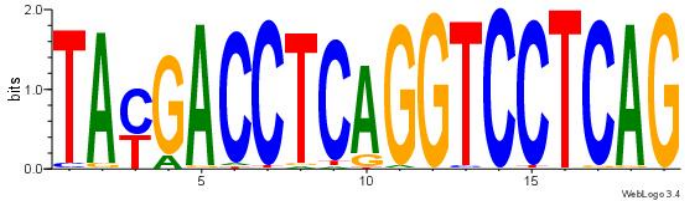

Dataset #: 1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0922859

Alignment:

```
ACAAGGCAAGTCCCTTCY
-----TCAAGGTC-----
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

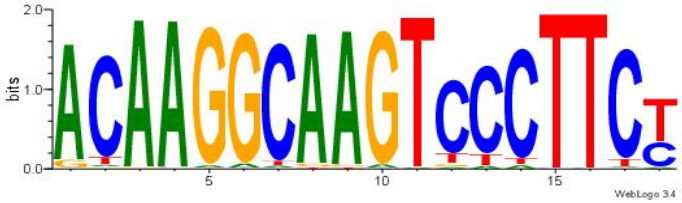

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

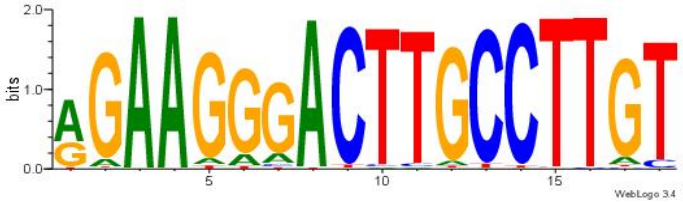

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8

Similarity score: 0.0927549

Alignment:
AATCAACCCTGGYRATCAAT
----GACCTTGA--------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

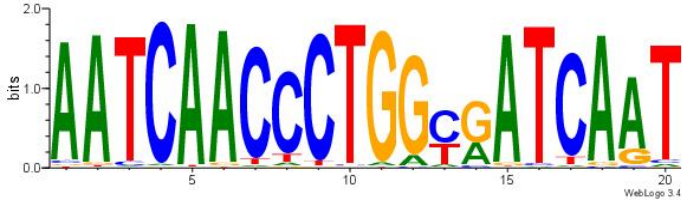

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

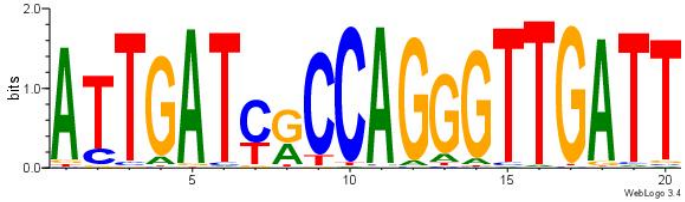

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0929981

Alignment:
GACAGGAGATTAACACTGAG
-----GACCTTGA-------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

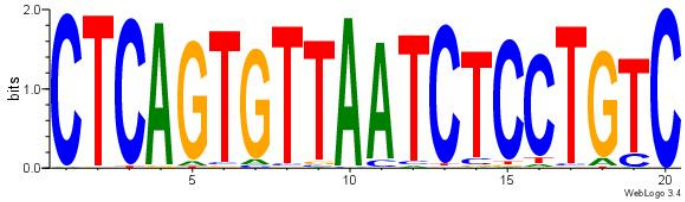

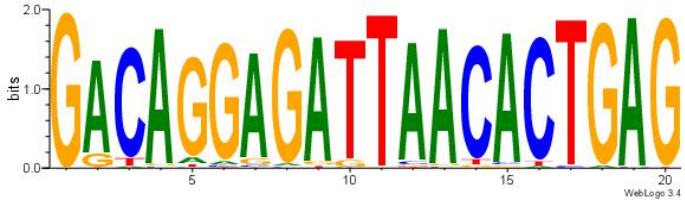

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0931152

Alignment:

```
AAAMAMMKMATGTTCTCACT
-------TCAAGGTC-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

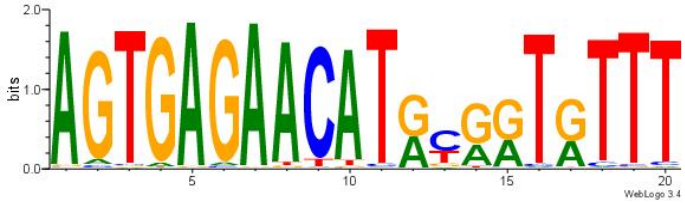

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

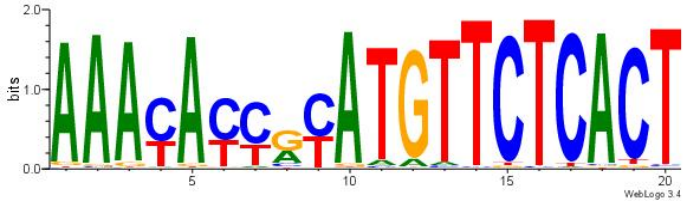

Dataset #: 1 Motif ID: 208 Motif name: Motif 208

Original motif Consensus sequence: GTGAGGGCGAT

Reverse complement motif Consensus sequence: ATCGCCCTCAC

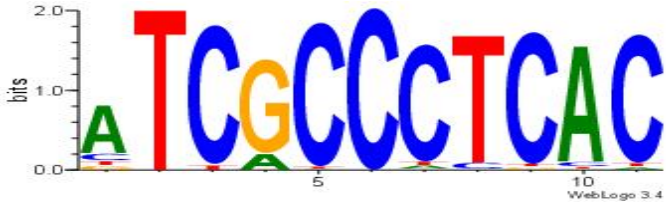

Best Matches for Motif ID 208 (Highest to Lowest)

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0622115

Alignment:

```
GCTAATATATCCCTCCC
------ATCGCCCTCAC
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

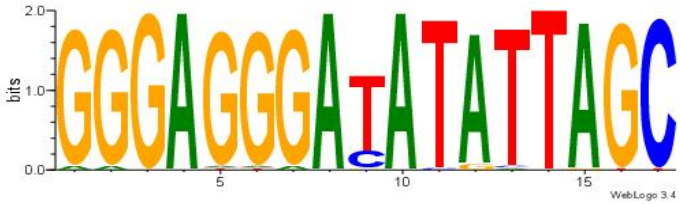

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

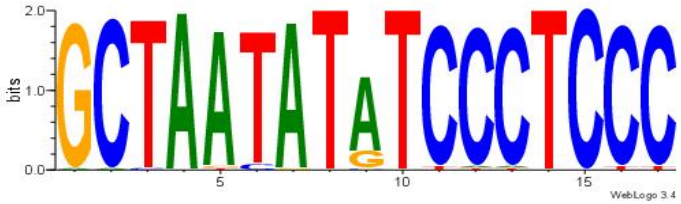

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0654927

Alignment:

```
GTTTAACCATTGAGGGCCAG
---------GTGAGGGCGAT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

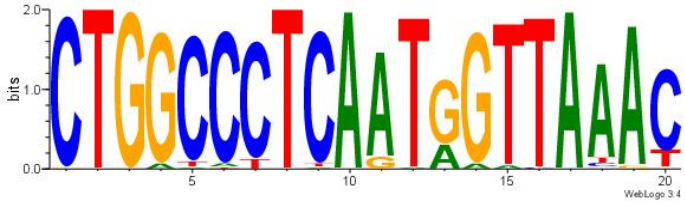

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

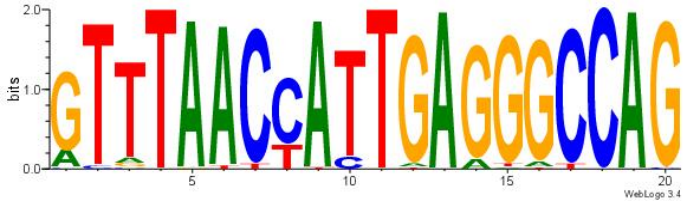

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 11
Similarity score: 0.0735725

Alignment:
GTCCCATCGACCACCCAAG
---ATCGCCCTCAC-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

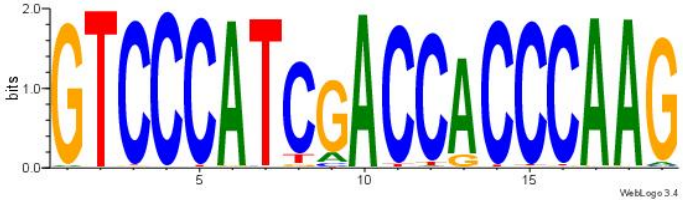

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

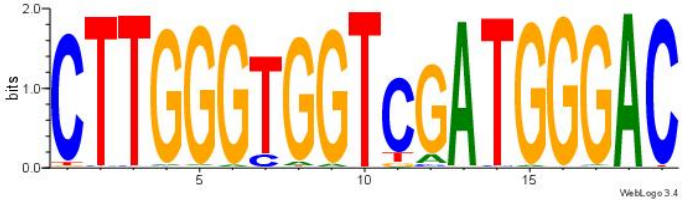

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0751839

Alignment:
GGGTCAGGGAGTTCCCTTTC
-------GTGAGGGCGAT--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

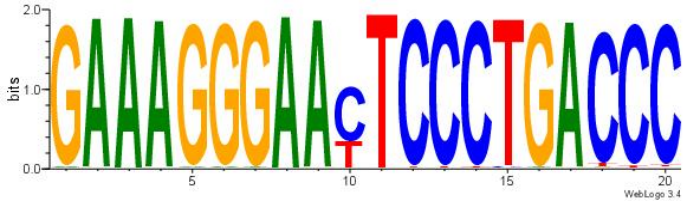

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

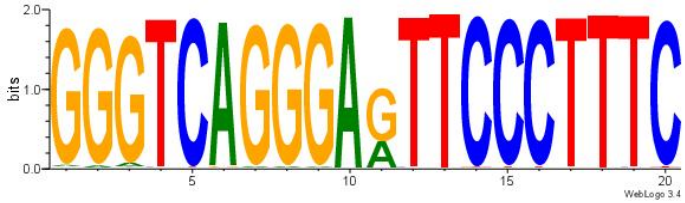

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0788665

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
------ATCGCCCTCAC---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

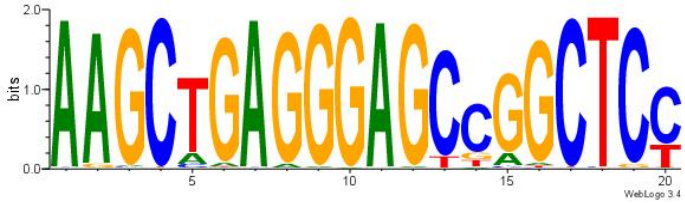

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

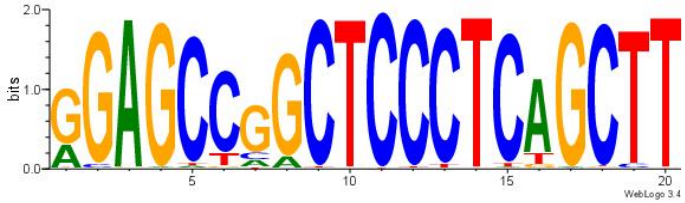

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0815998

Alignment:

```
GTAACACTCACCGCGARGGT
---------ATCGCCCTCAC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

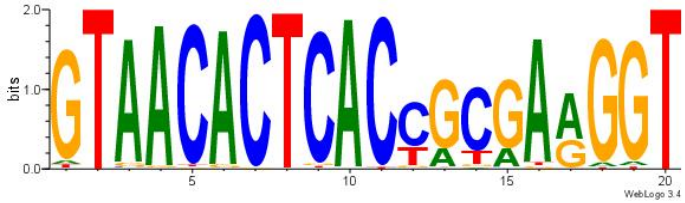

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

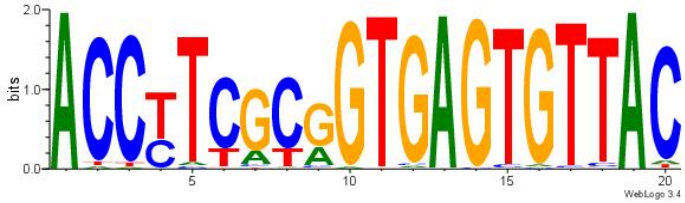

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 11
Similarity score: 0.0821166

Alignment:
GGAGGTGTGGAGGGAGAGGC
--GTGAGGGCGAT-------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

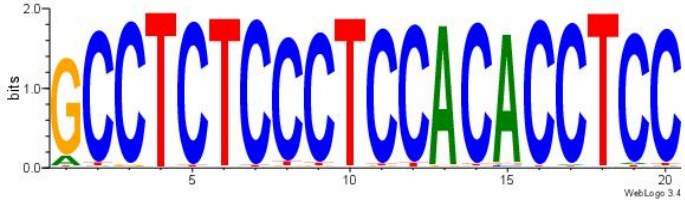

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

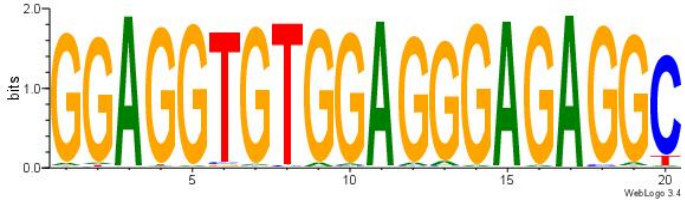

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0832971

Alignment:
AGGACTGAGGGTGCCYRGGG
----GTGAGGGCGAT-----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

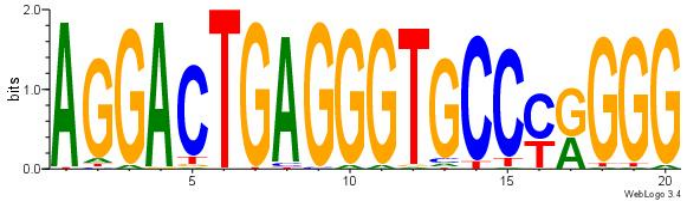

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

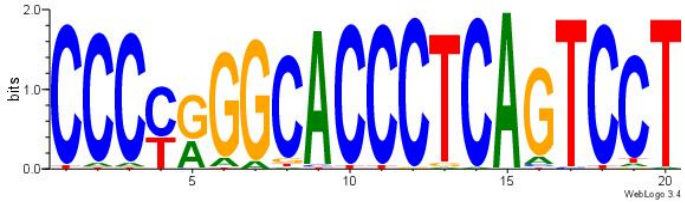

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0836939

Alignment:

```
TGCGCGCACCCAC
--ATCGCCCTCAC
```

Original motif Consensus sequence: GTGGGTGCGCGCA

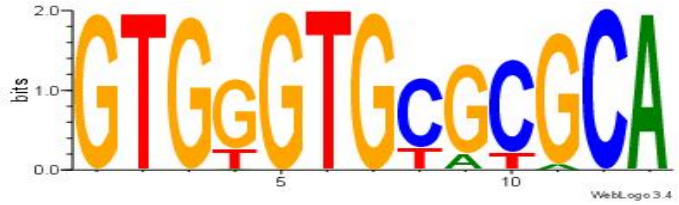

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

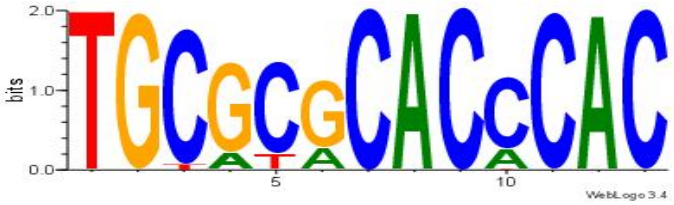

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0858103

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-GTGAGGGCGAT--------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

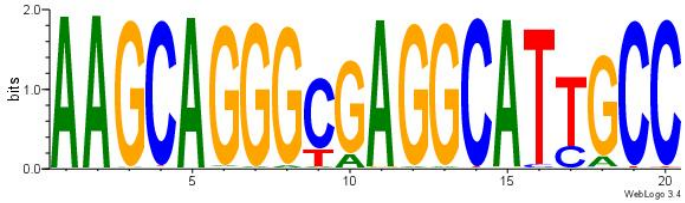

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

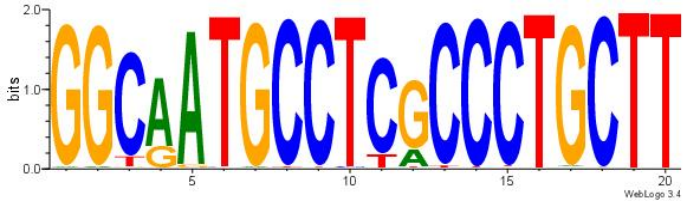

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 11
Similarity score: 0.086134

Alignment:
AGCTCCCAGCGTGAGCGACG
--------GTGAGGGCGAT-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

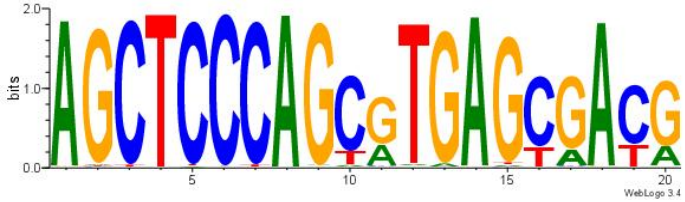

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

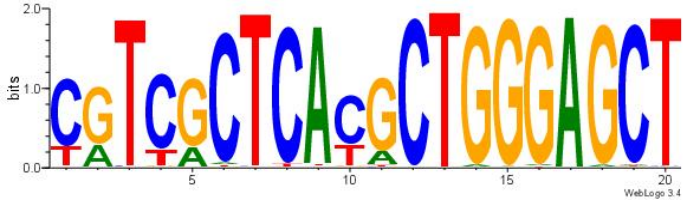

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.086828

Alignment:
GCTGGCCCGCAAGCGCCGCG
--------ATCGCCCTCAC-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

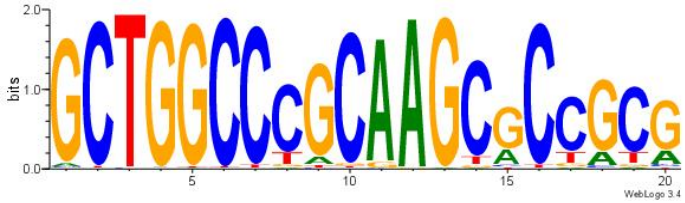

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

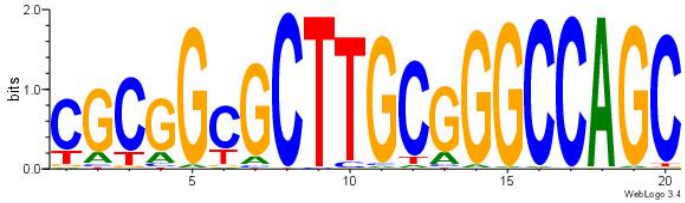

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0876613

Alignment:

```
AGTTCCGGGTGGGCGTGGG
------GTGAGGGCGAT--
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

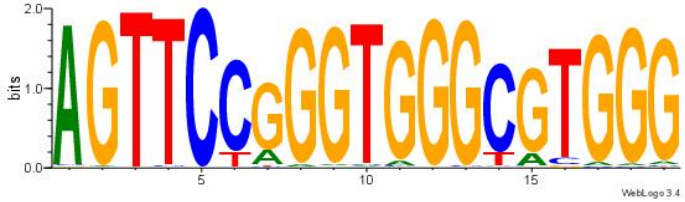

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

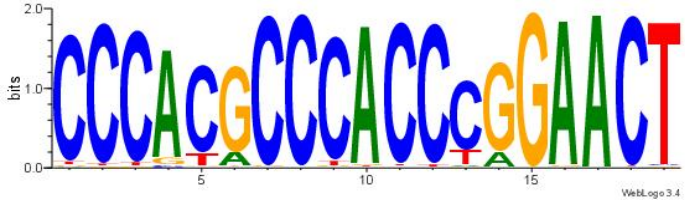

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0892463

Alignment:

```
GGGGGCTGACCCCCCCACC
-ATCGCCCTCAC-------
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

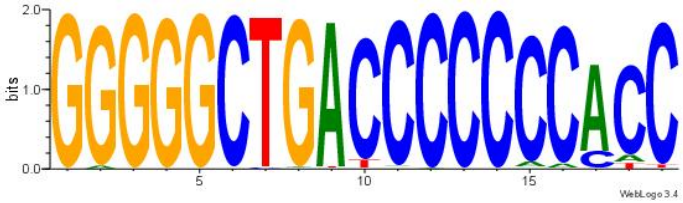

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

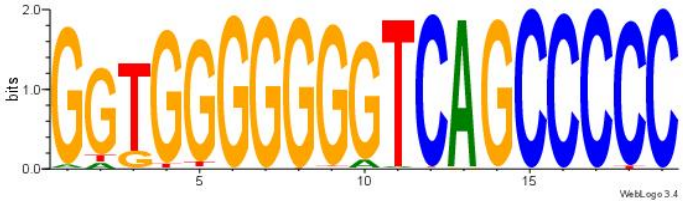

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 11
Similarity score: 0.0902982

Alignment:
CTCCTGCCTCAGCCTCCCRA
--ATCGCCCTCAC-------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

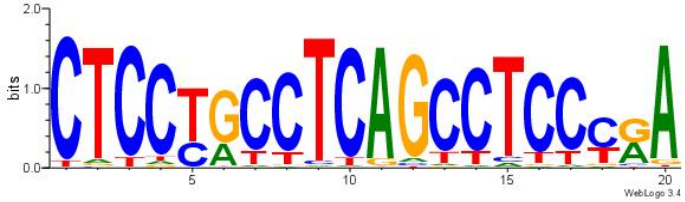

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

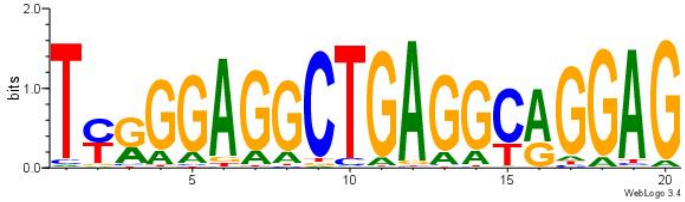

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0904902

Alignment:
TAAGTGGGAGCTAARC
---GTGAGGGCGAT--

Original motif Consensus sequence: TAAGTGGGAGCTAARC

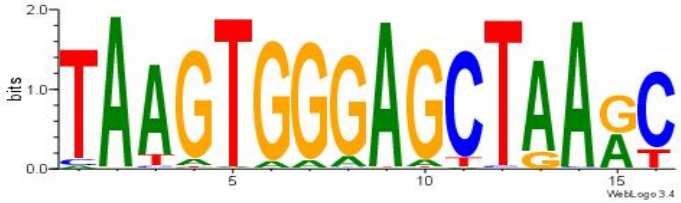

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

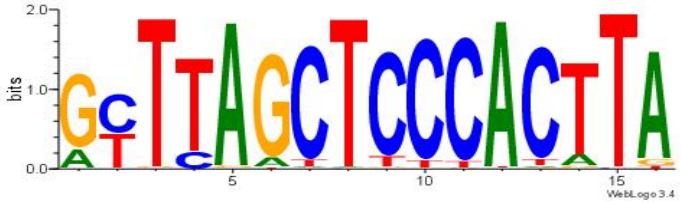

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0907083

Alignment:

```
GTGGCCCTCTTCTCACAGCT
ATCGCCCTCAC---------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

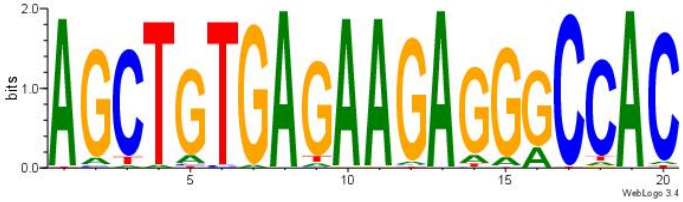

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

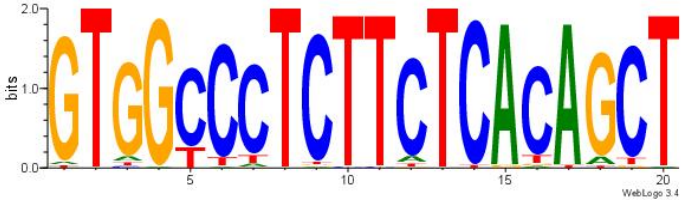

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0912192

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
-----ATCGCCCTCAC----
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

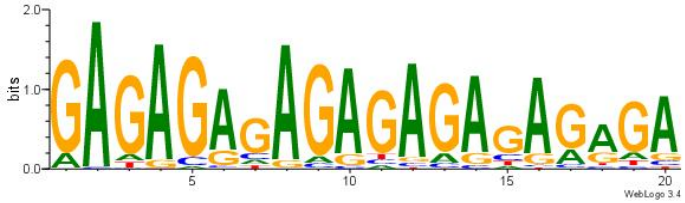

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

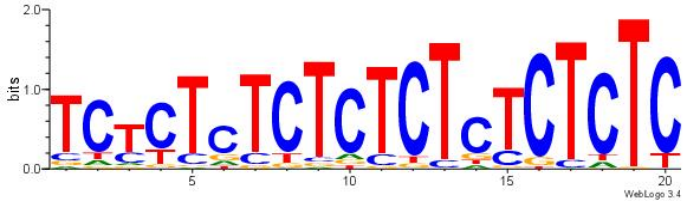

Dataset #:	1
Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 11
Similarity score: 0.0917803

Alignment:
TGTGCTAGCAAT
GTGAGGGCGAT-

Original motif Consensus sequence: ATTGCTAGCACA

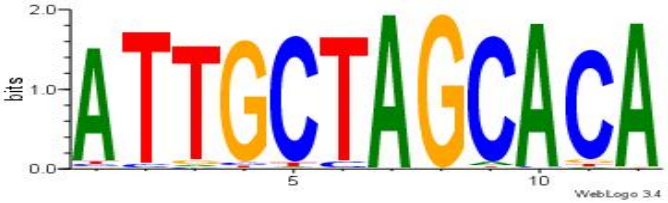

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

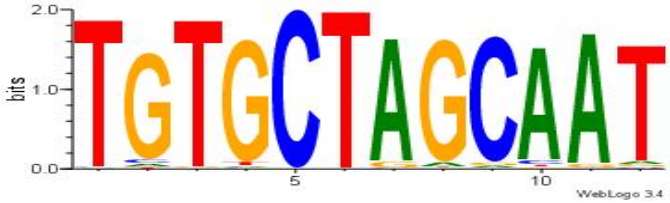

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0918775

Alignment:
AGAAATCGAGCRCAGCGCCG
-----ATCGCCCTCAC----

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

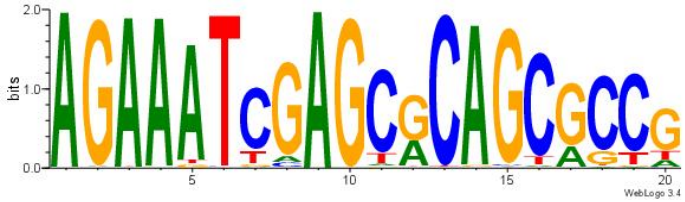

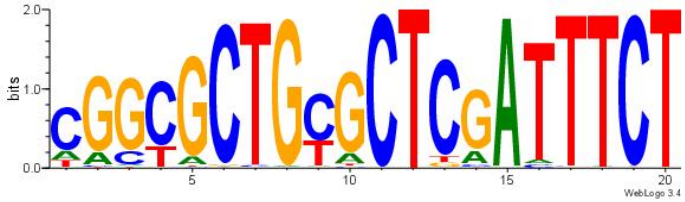

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.093188

Alignment:

```
ATATTGATGATCCTGACC
-ATCGCCCTCAC------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

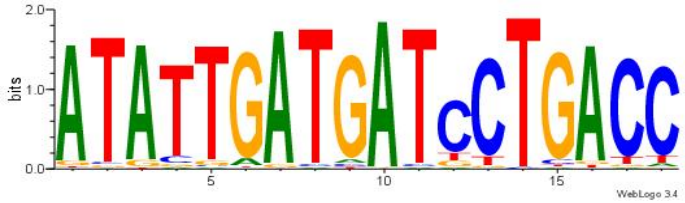

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

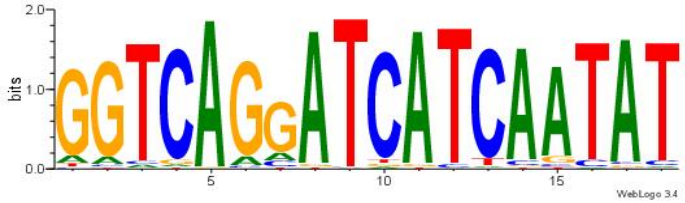

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0932132

Alignment:

```
AAATTAGGCCAATTAATAAC
--GTGAGGGCGAT-------
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

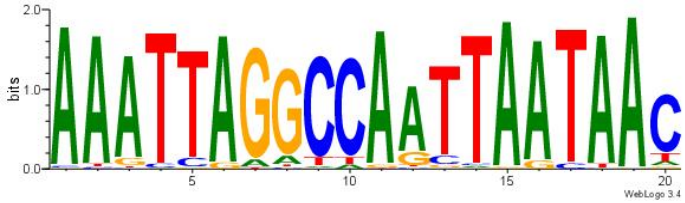

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0954403

Alignment:
ACTCAGCCCRCCTGCACCC
--ATCGCCCTCAC------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

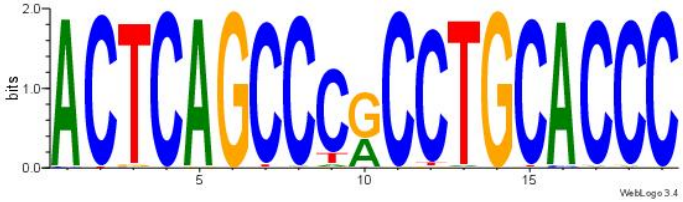

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

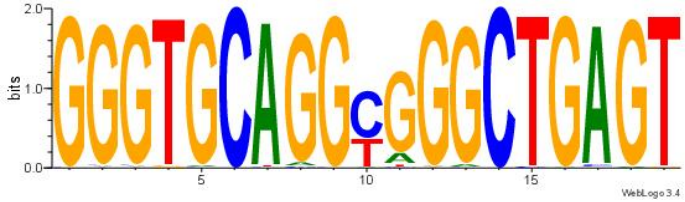

Dataset #: 1
Motif ID: 220
Motif name: Motif 220
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0957698

Alignment:
GTGGGTGCAGTGCA
GTGAGGGCGAT---

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

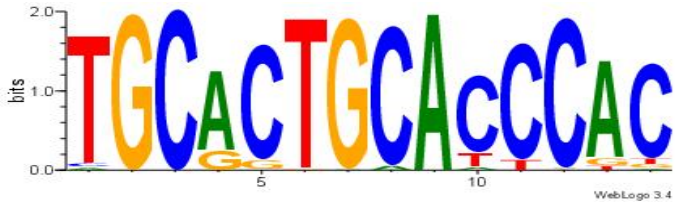

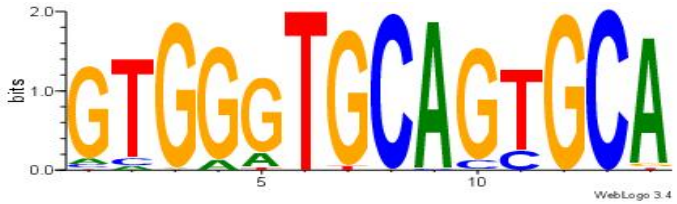

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.095972

Alignment:

```
CACCTCCCAGACMGGGT
-ATCGCCCTCAC-----
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

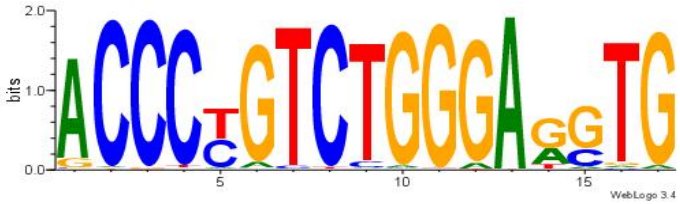

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

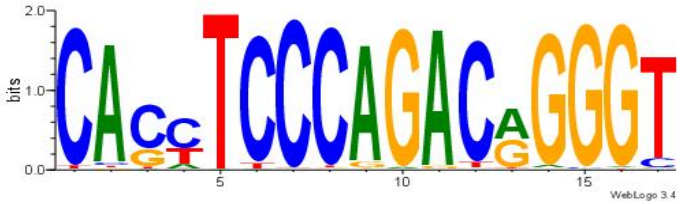

Dataset #: 1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0963549

Alignment:

```
CAAGCGCCAGCTCATGTC
--ATCGCCCTCAC-----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

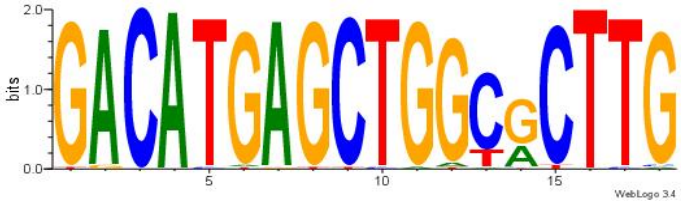

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

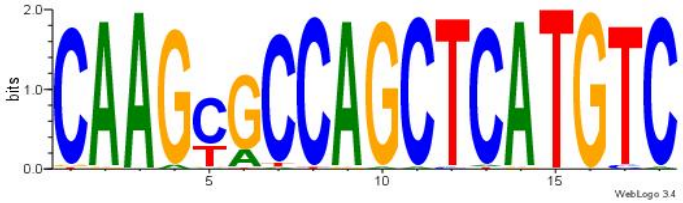

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.0966405

Alignment:
CATTCTGGGGTCTGGAGGAY
---------GTGAGGGCGAT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

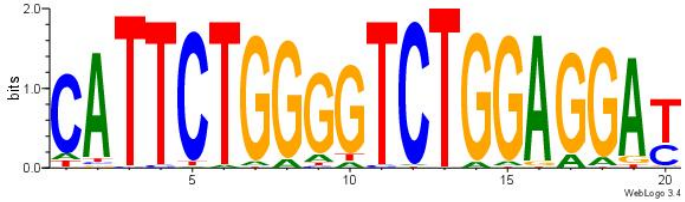

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

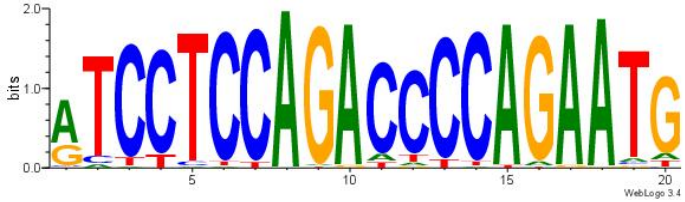

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0966914

Alignment:
TAMGACCTCAGGTCCTCAG
ATCGCCCTCAC--------

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

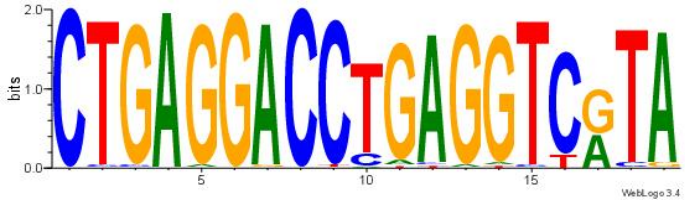

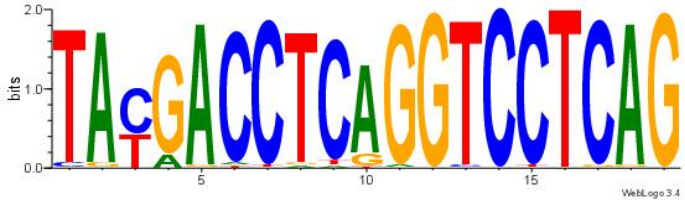

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0994783

Alignment:

```
AAAMAMMKMATGTTCTCACT
--------ATCGCCCTCAC-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

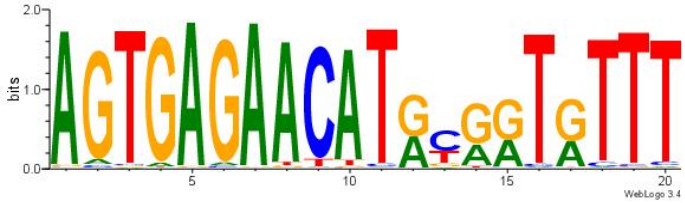

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

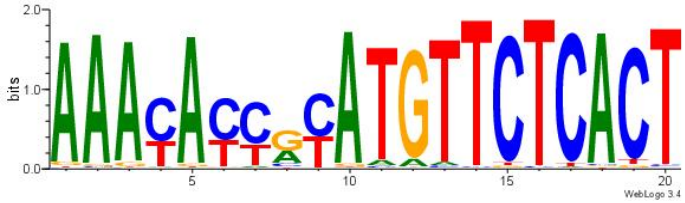

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0999857

Alignment:

```
GTKTMTATMTACCACATTTT
------ATCGCCCTCAC---
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

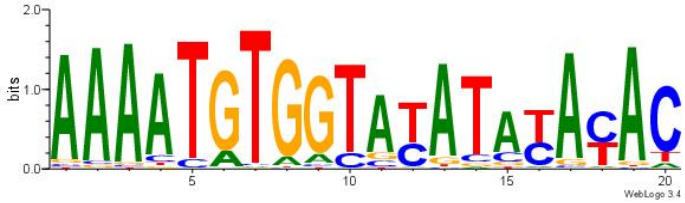

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

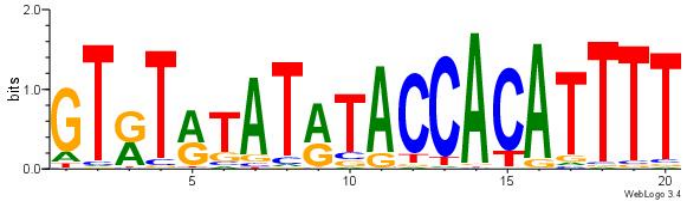

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.101164

Alignment:
GGTGGGAGAAATACCT
----GTGAGGGCGAT-

Original motif Consensus sequence: AGGTATTTCTCCCACC

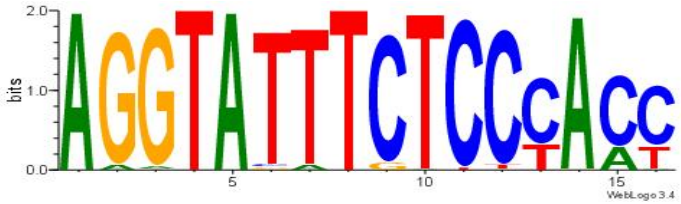

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

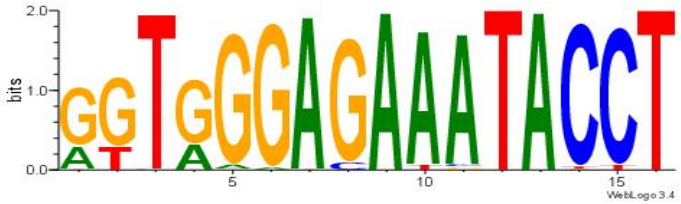

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.101322

Alignment:
GGCTGCGGAGGGTGTA
-----GTGAGGGCGAT

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

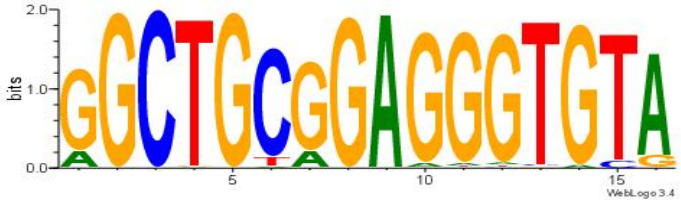

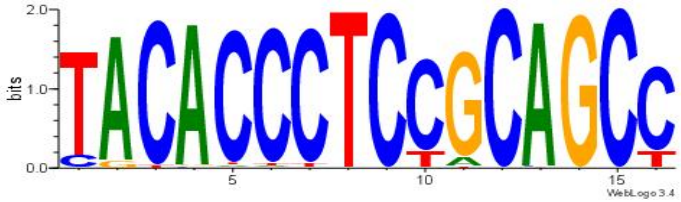

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.101541

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--------ATCGCCCTCAC
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

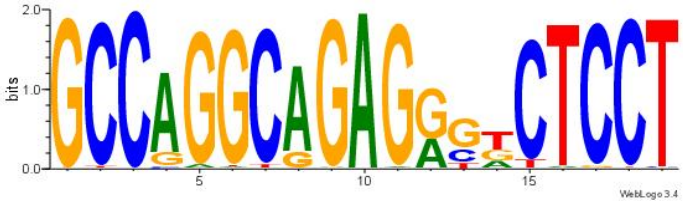

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

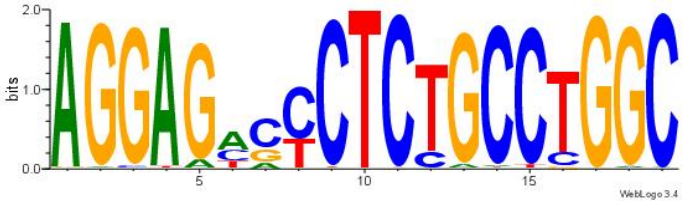

Dataset #: 1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.102699

Alignment:

```
GCGMGCGGGAACCGGGGCT
--------GTGAGGGCGAT
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

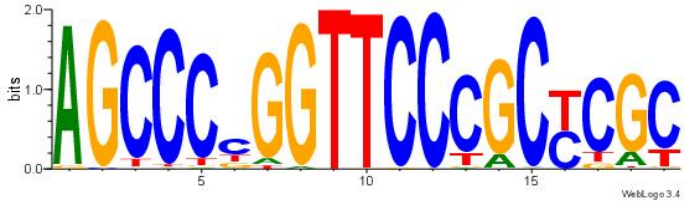

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

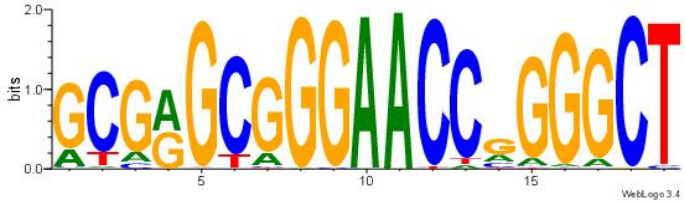

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.102829

Alignment:
GGGAGGAAGGGGACAC
GTGAGGGCGAT-----

Original motif Consensus sequence: GGGAGGAAGGGGACAC

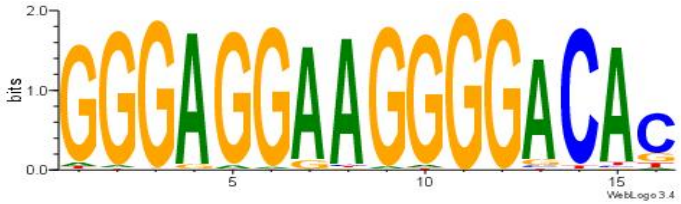

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

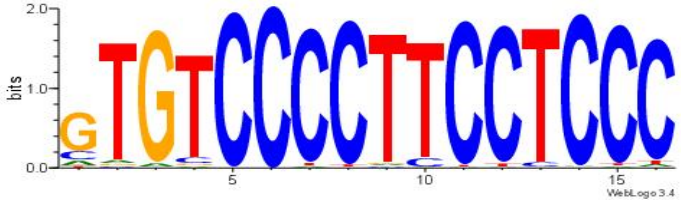

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.10357

Alignment:
CTCATTTAATCCTCACAAC
---ATCGCCCTCAC-----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

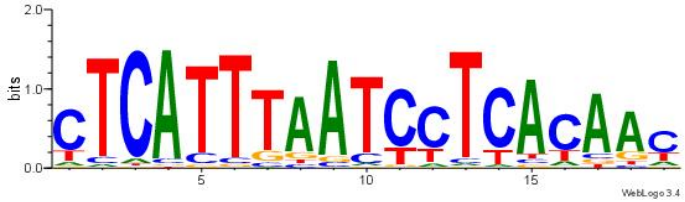

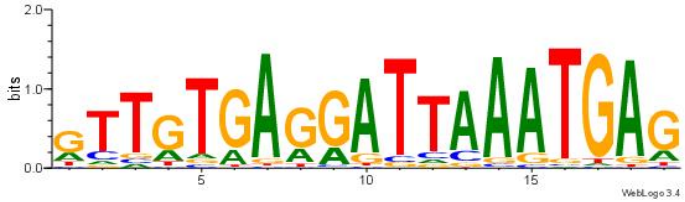

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.103656

Alignment:

```
AACTGAGGCTCAGAGA
---GTGAGGGCGAT--
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

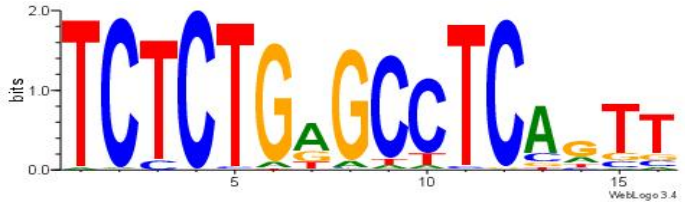

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

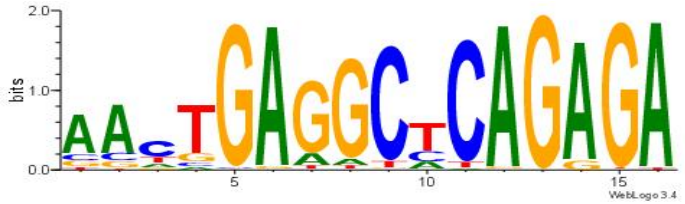

Dataset #:	1

Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.103785

Alignment:

```
ACAGAGTGAGACTCT
-GTGAGGGCGAT---
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

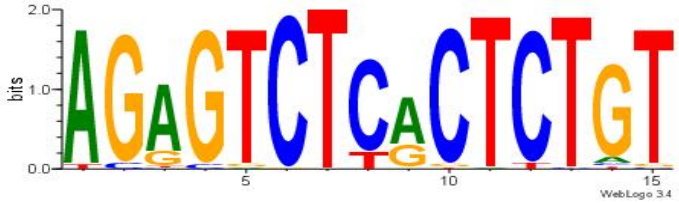

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

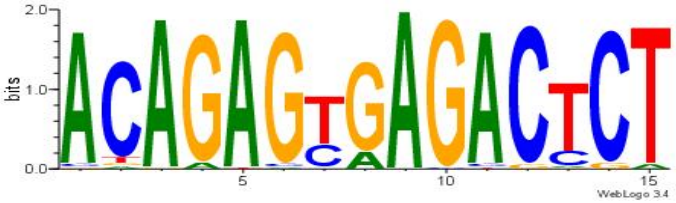

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.103895

Alignment:
CTCCTGCCTCAGCY
-ATCGCCCTCAC--

Original motif Consensus sequence: CTCCTGCCTCAGCY

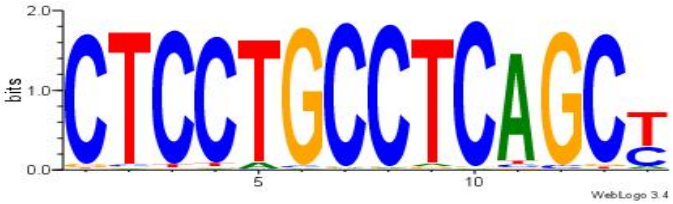

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

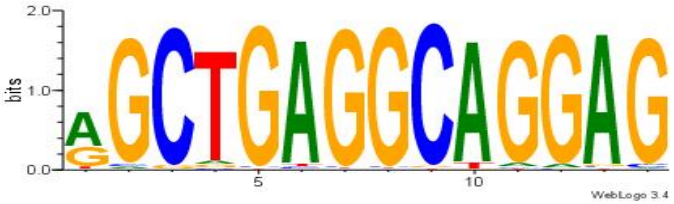

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.104133

Alignment:
GGTTCAAGCGATT
-GTGAGGGCGAT-

Original motif Consensus sequence: AATCGCTTGAACC

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

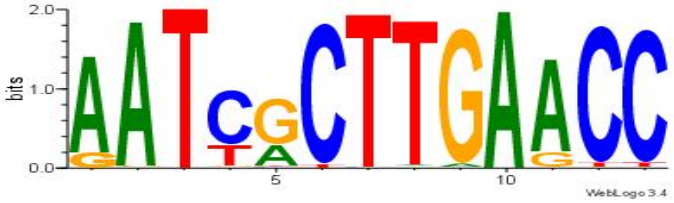

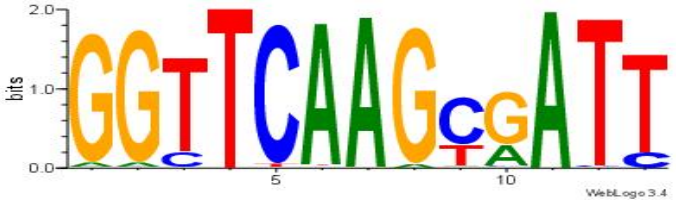

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.104191

Alignment:

```
AAGTCTCCCAATTACAACT
----ATCGCCCTCAC----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

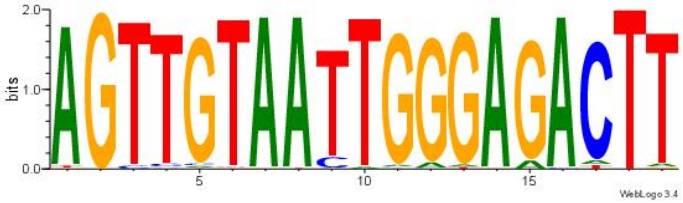

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

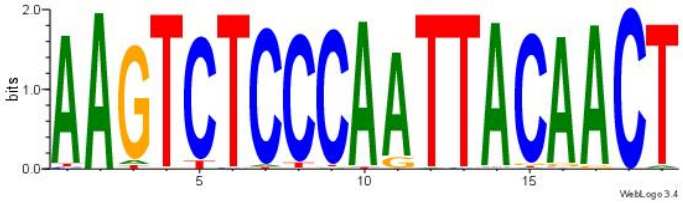

Dataset #: 1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.104221

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-ATCGCCCTCAC--------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

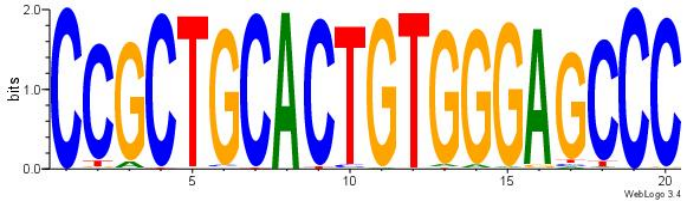

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

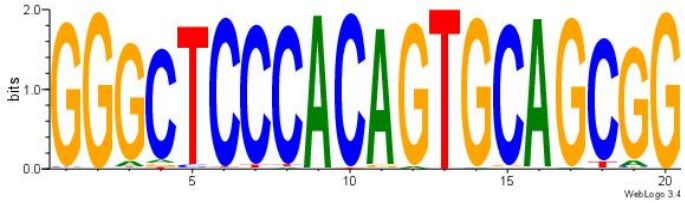

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11

Similarity score: 0.104412

Alignment:
ATCTGACAGGAGGYRGAGCT
-------GTGAGGGCGAT--

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

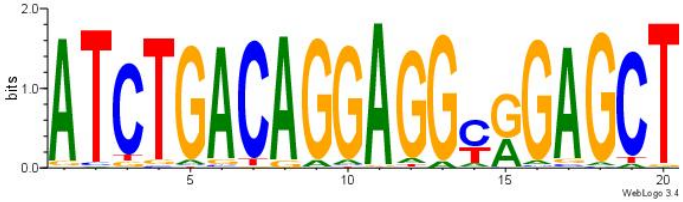

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

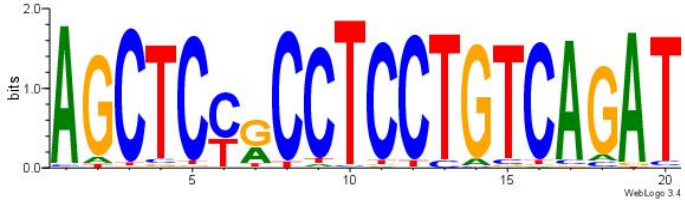

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.104737

Alignment:
CAGACTGCCTCCTCAA
-----ATCGCCCTCAC

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

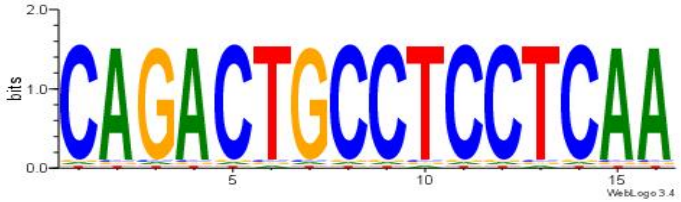

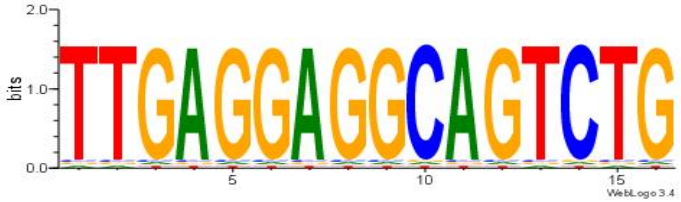

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.104768

Alignment:

```
ATGGACTTGAGA
ATCGCCCTCAC-
```

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

Dataset #:	1
Motif ID:	298

Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.105317

Alignment:

```
GGTCCTCCTCTAT
-ATCGCCCTCAC-
```

Original motif Consensus sequence: ATAGAGGAGGACC

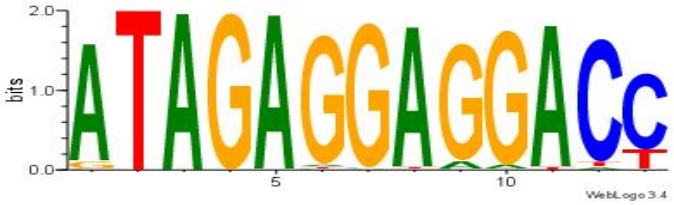

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

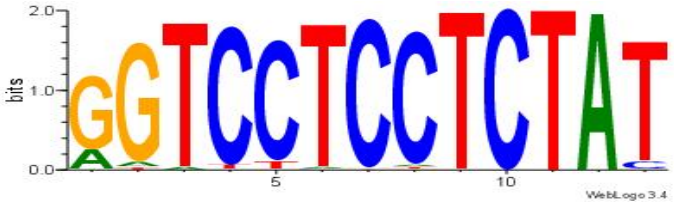

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.105736

Alignment:
TCCCTCCCGGACGGGGYGGC
---------GTGAGGGCGAT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

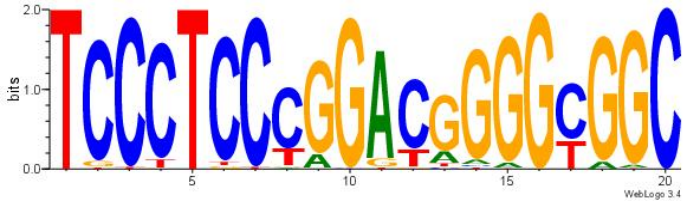

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

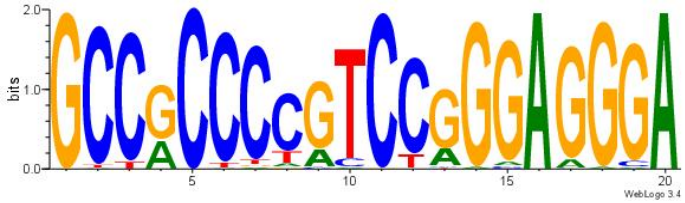

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.106096

Alignment:
CGAGCCCTGCCCCGCGG
------ATCGCCCTCAC

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

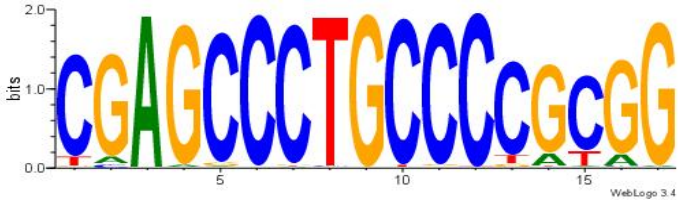

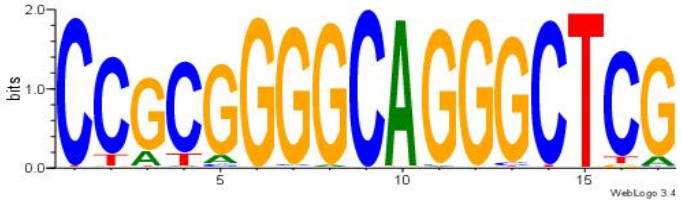

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.10628

Alignment:

```
CAGAAATCACCCGTCTT
-ATCGCCCTCAC-----
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

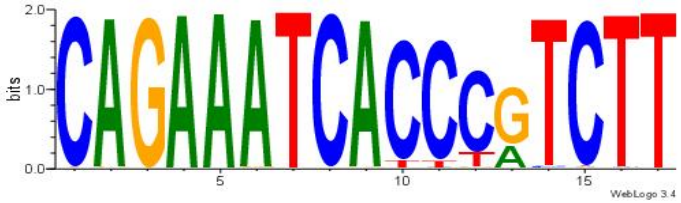

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

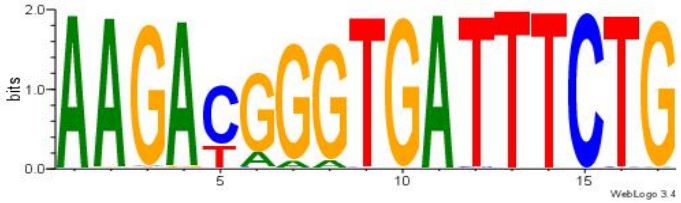

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.106329

Alignment:

```
ACTGTCTTCCACCTCCACAT
---ATCGCCCTCAC------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

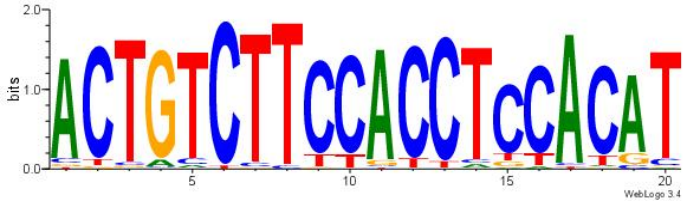

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

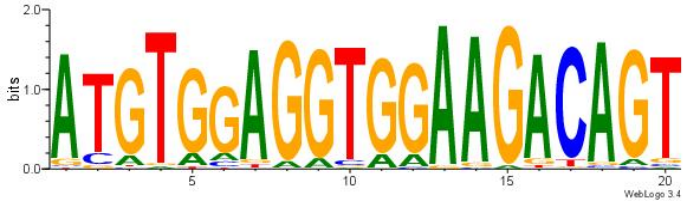

Dataset #: 1 Motif ID: 209 Motif name: Motif 209

Original motif Consensus sequence: CTGTCAGCCCAT

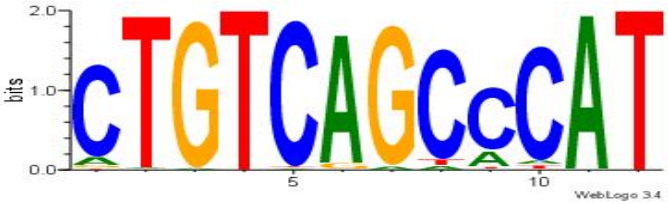

Reverse complement motif Consensus sequence: ATGGGCTGACAG

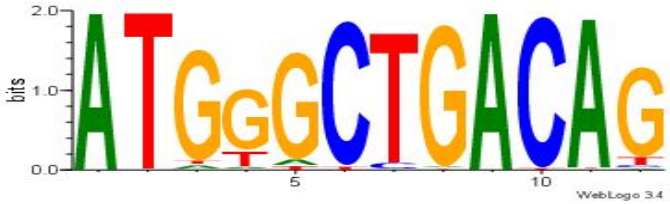

Best Matches for Motif ID 209 (Highest to Lowest)

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0568336

Alignment:

```
CATTTGGGAGCCCATTGA
---CTGTCAGCCCAT---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

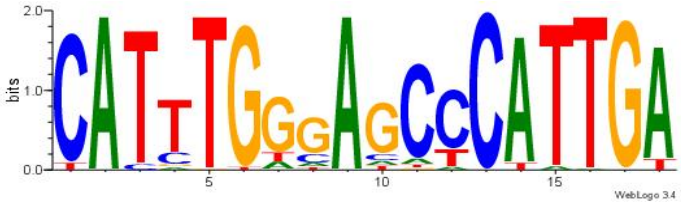

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

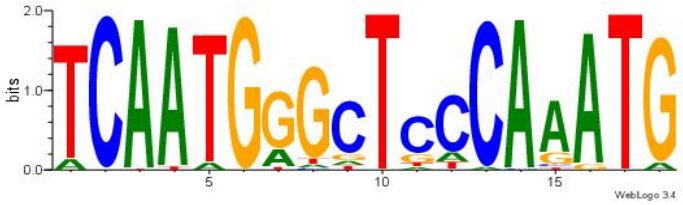

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0594073

Alignment:
GKCTGTACCCCCATTGTAT
-----CTGTCAGCCCAT--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

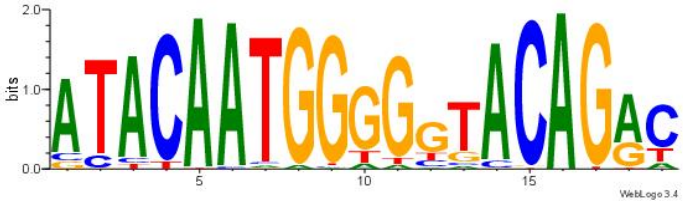

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

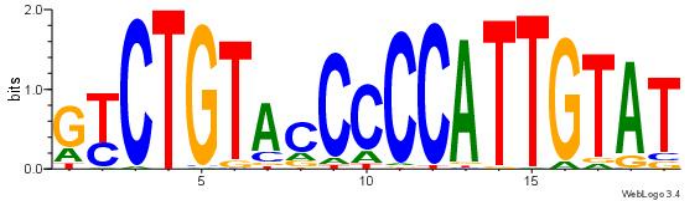

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0708524

Alignment:
GACATGAGCTGGCGCTTG
---ATGGGCTGACAG---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

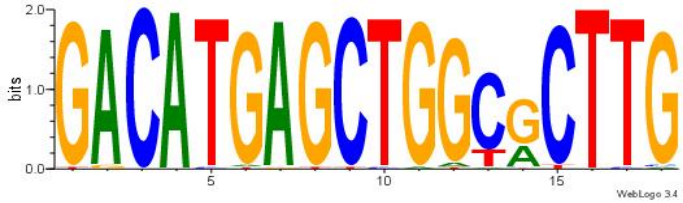

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

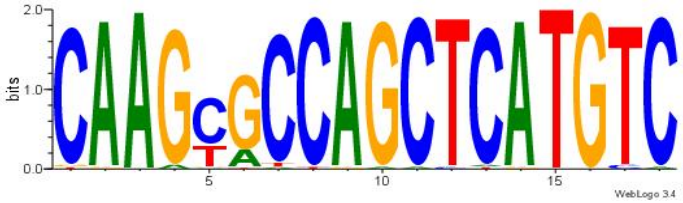

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.071408

Alignment:

```
GCTGGGATTACAGG
-ATGGGCTGACAG-
```

Original motif Consensus sequence: GCTGGGATTACAGG

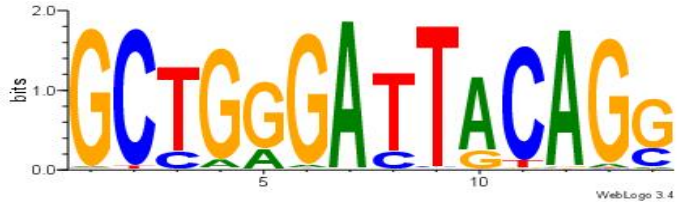

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0804186

Alignment:

```
CCTTGGCCAGCCCAGAAAG
---CTGTCAGCCCAT----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

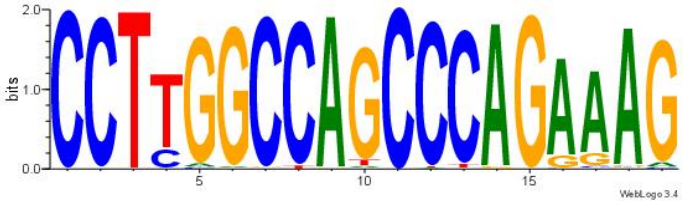

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

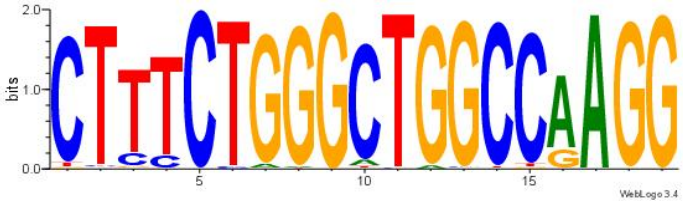

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 12
Similarity score: 0.0829391

Alignment:
CCTTTGACTCCATGTC
-CTGTCAGCCCAT---

Original motif Consensus sequence: GACATGGAGTCAAAGG

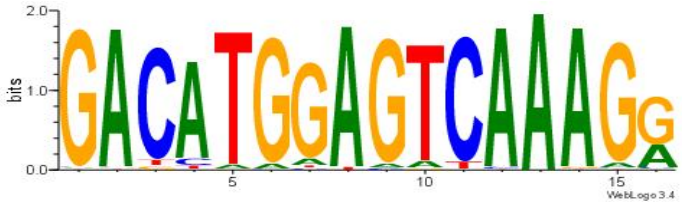

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

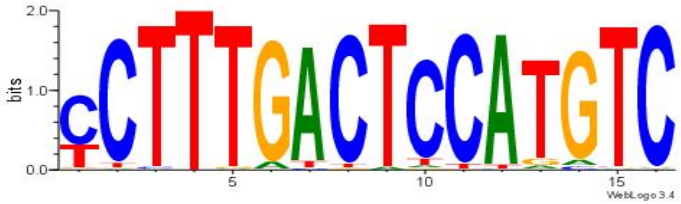

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.0832564

Alignment:
GGTGGAGCTGCCTGCCAGTC
-CTGTCAGCCCAT-------

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

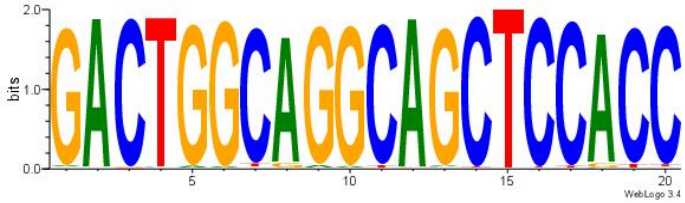

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

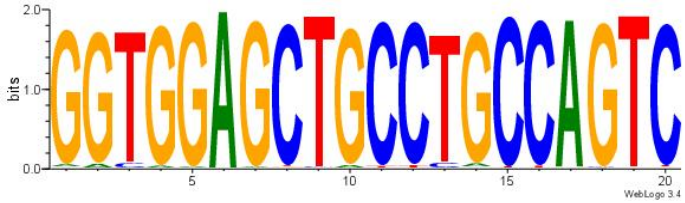

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0848518

Alignment:

```
GGGACWGCACAT
CTGTCAGCCCAT
```

Original motif Consensus sequence: ATGTGCWGTCCC

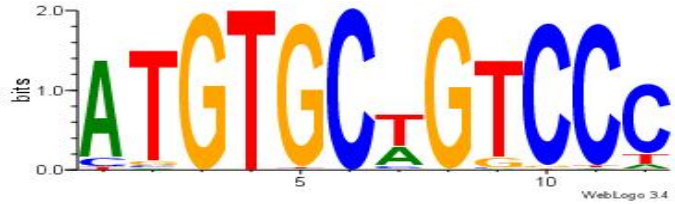

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0855485

Alignment:

```
GGGGGCTGACCCCCCCACC
-------ATGGGCTGACAG
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

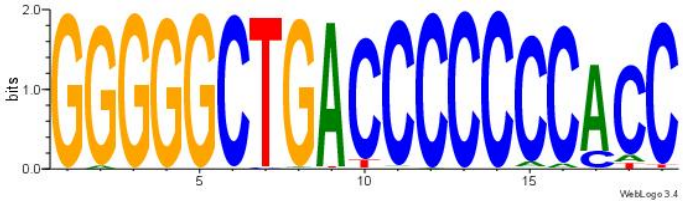

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

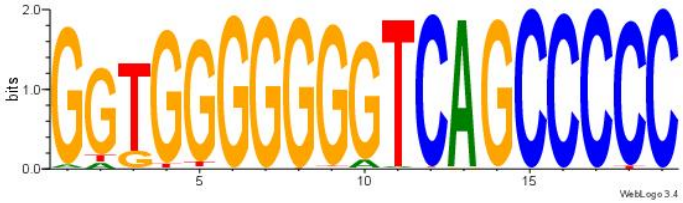

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 12
Similarity score: 0.0858168

Alignment:
CAAGGTCTGATTGTW
-ATGGGCTGACAG--

Original motif Consensus sequence: CAAGGTCTGATTGTW

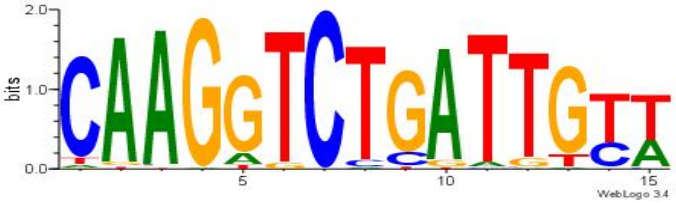

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #: 1
Motif ID: 38
Motif name: Motif 38
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0894649

Alignment:
TCTMKGCTCACTGC
-ATGGGCTGACAG-

Original motif Consensus sequence: GCAGTGAGCYRAGA

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

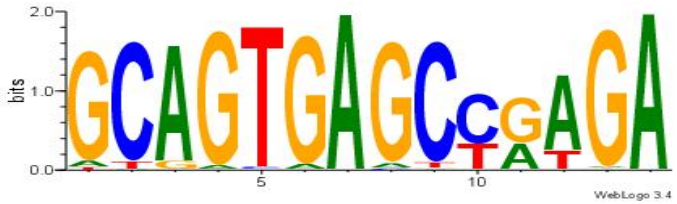

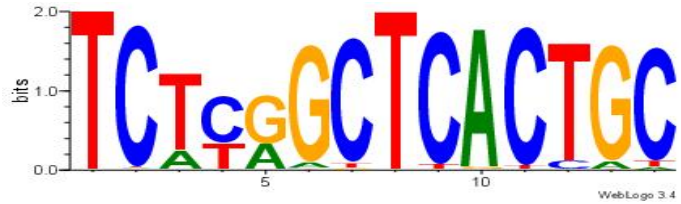

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0913245

Alignment:

```
AATGAGTTAAGACTTTG
-ATGGGCTGACAG----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

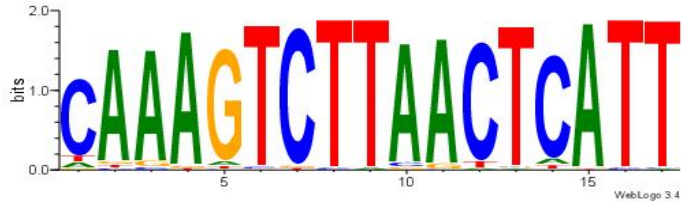

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0913632

Alignment:

```
CTTGCCCAAGGTCACACAGC
-------ATGGGCTGACAG-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

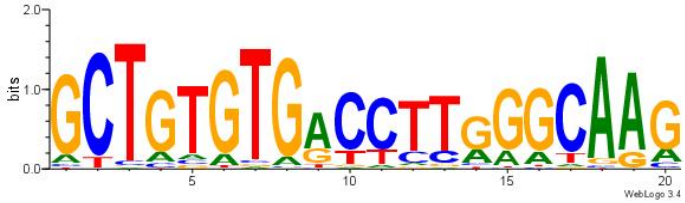

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

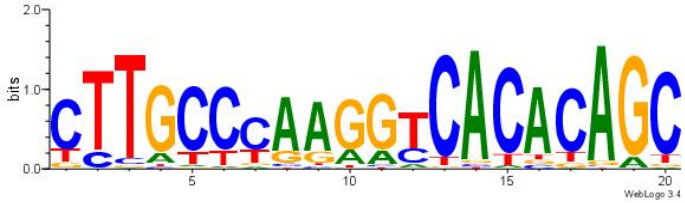

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0934952

Alignment:
TGTATTAGTCMMTT
-CTGTCAGCCCAT-

Original motif Consensus sequence: AAYRGACTAATACA

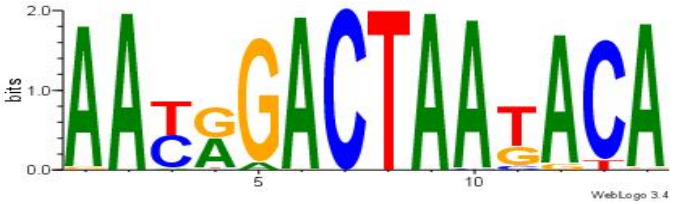

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

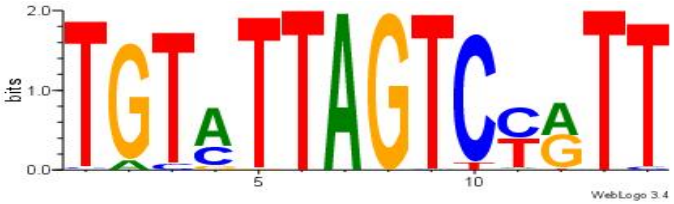

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.0935229

Alignment:
GCTGCARTCTCGGCACTTT
-CTGTCAGCCCAT------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

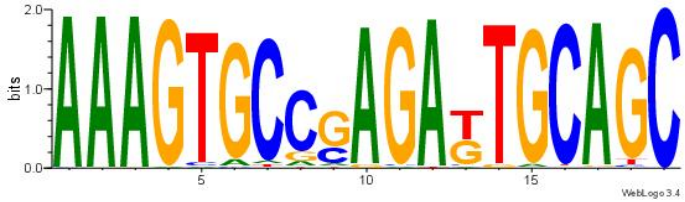

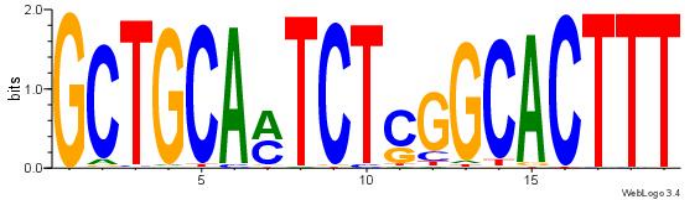

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0936382

Alignment:

```
KACGGGCTTAARAAACGGC
-ATGGGCTGACAG------
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

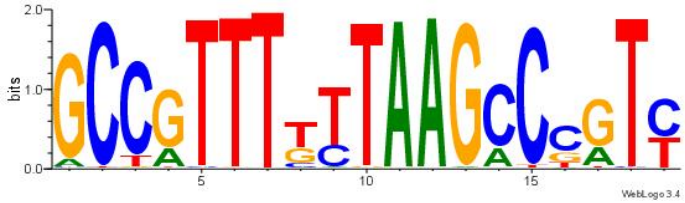

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

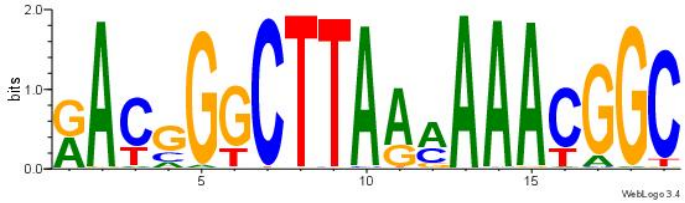

Dataset #:	1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.094096

Alignment:

```
AAAGAGAGTCAGCGAAG
-----CTGTCAGCCCAT
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

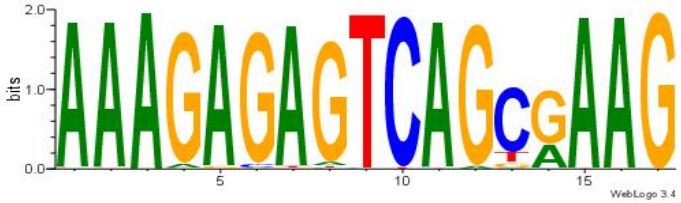

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

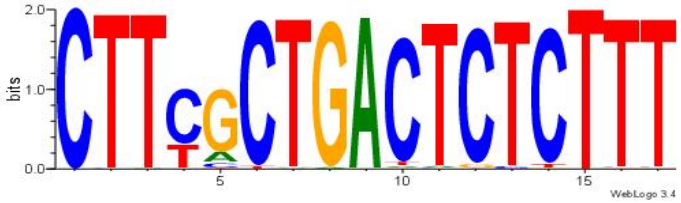

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0941428

Alignment:
CCTAGATTTCAGARGATGT
-----CTGTCAGCCCAT--

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

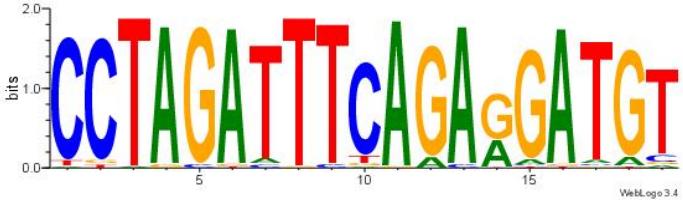

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

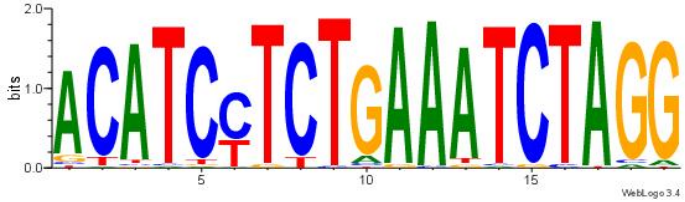

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.095434

Alignment:
TTGAGGAGGCAGTCTG
ATGGGCTGACAG----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

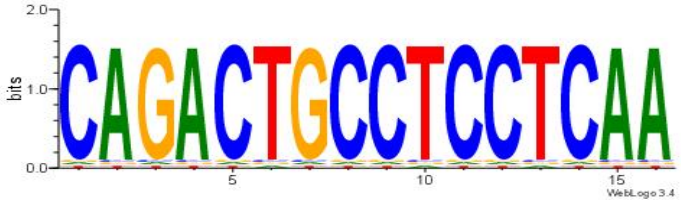

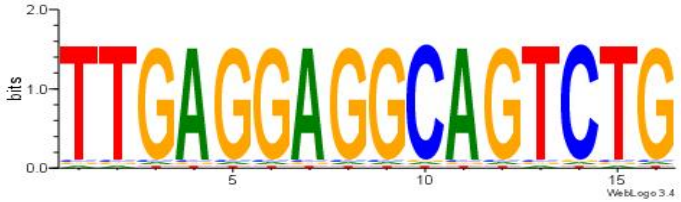

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0954647

Alignment:

```
TGGACCTGAGAGC
ATGGGCTGACAG-
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

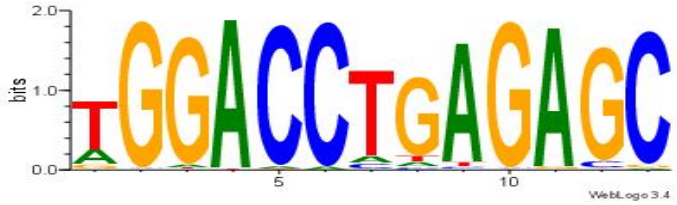

Dataset #:	1
Motif ID:	294

Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0969063

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
--CTGTCAGCCCAT------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

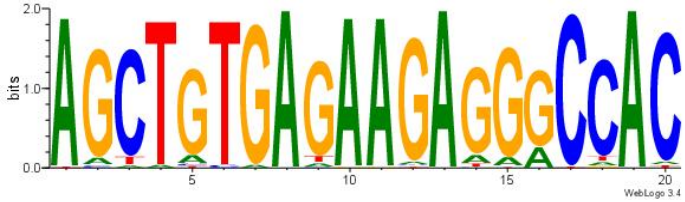

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

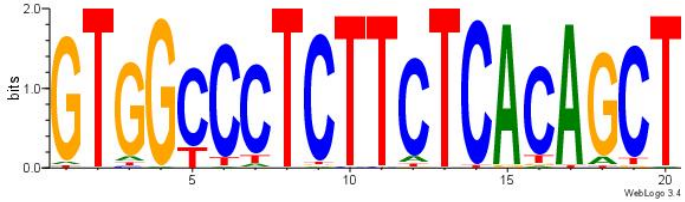

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0973094

Alignment:
AAGACCTTCCAGTGGGACAA
ATGGGCTGACAG--------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

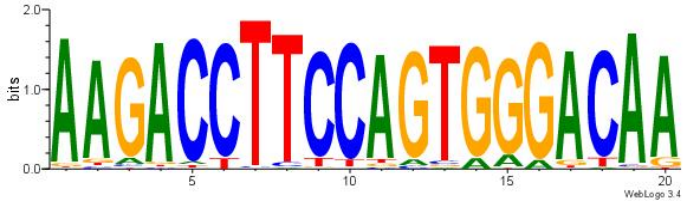

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

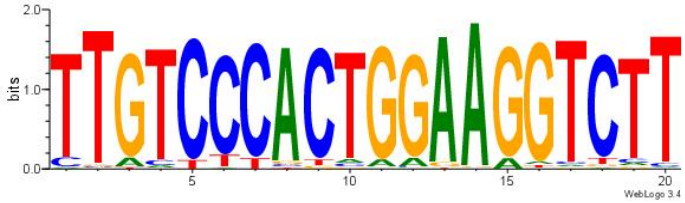

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.097311

Alignment:
CGCCCATCGTCTGGGATGT
-----ATGGGCTGACAG--

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

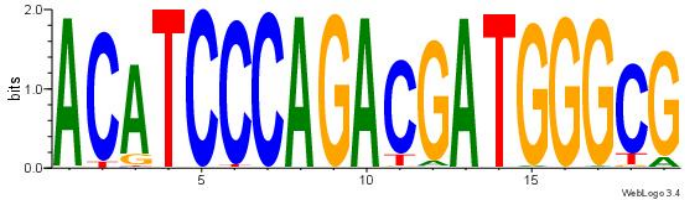

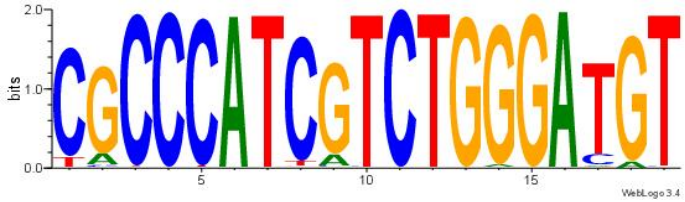

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0981966

Alignment:

```
GAATCCTGGGACAGCCTGT
-----ATGGGCTGACAG--
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

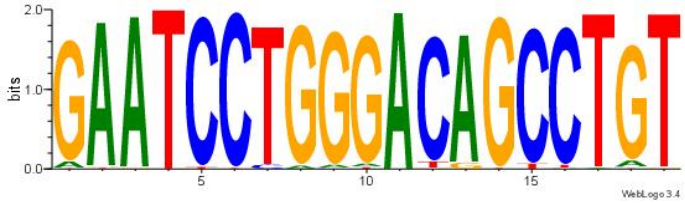

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

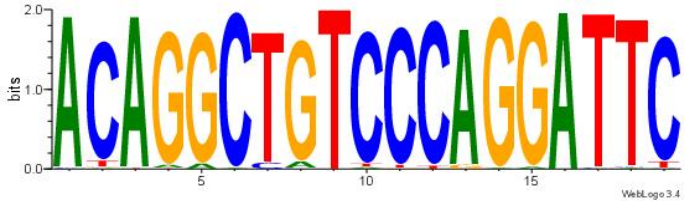

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0991202

Alignment:

```
GMTTAGCTCCCACTTA
-ATGGGCTGACAG---
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

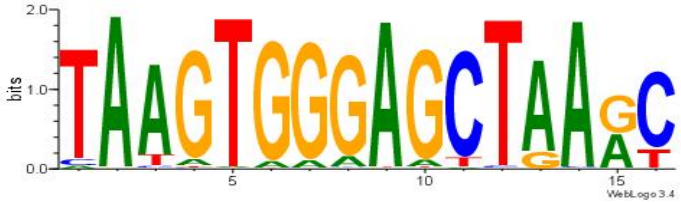

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

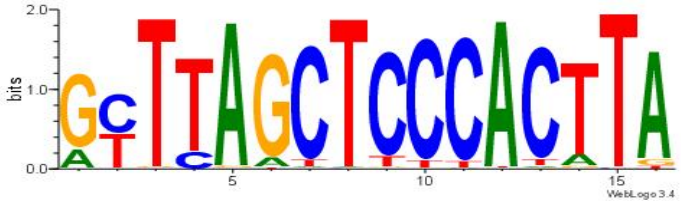

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0991265

Alignment:
CCCTGCTAGAACCTCCAA
--CTGTCAGCCCAT----

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

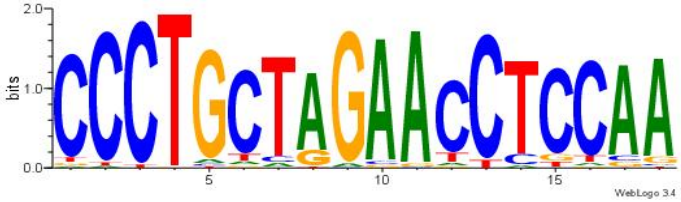

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

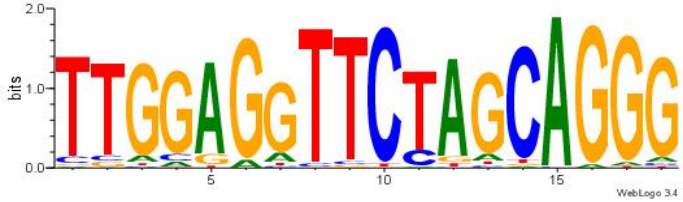

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0994886

Alignment:
AGATGCCAGCCAGAGCTCT
--CTGTCAGCCCAT-----

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

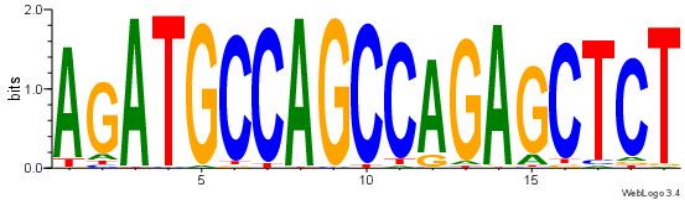

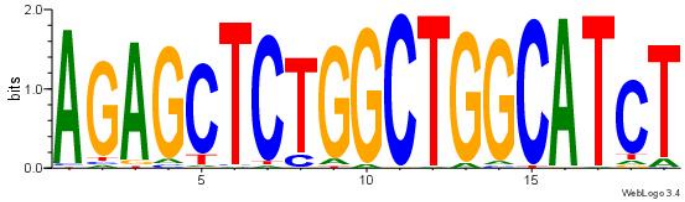

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0995567

Alignment:

```
ATCCATCCATCCATCCA
--CTGTCAGCCCAT---
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

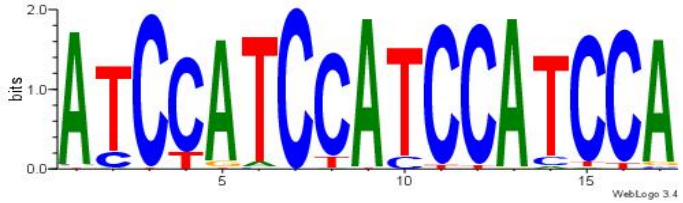

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.101227

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
------ATGGGCTGACAG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

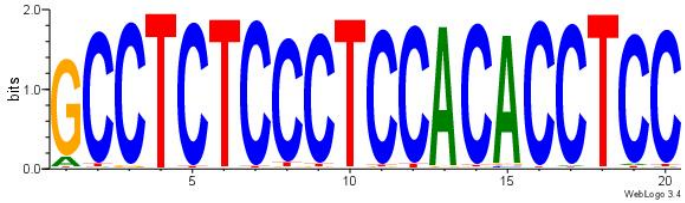

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

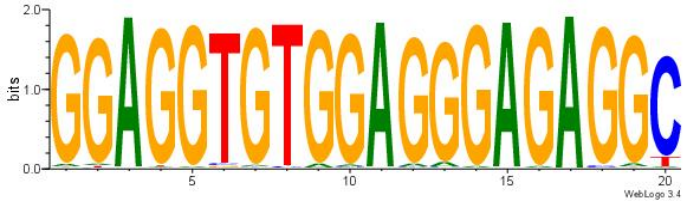

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.101426

Alignment:
GTGCCAGGCACTGTKCTARG
CTGTCAGCCCAT--------

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

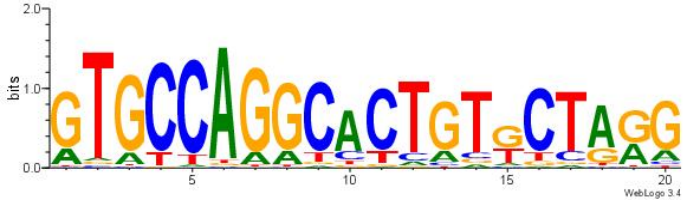

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

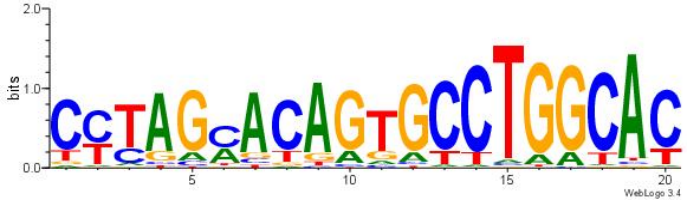

Dataset #: 1
Motif ID: 138
Motif name: Motif 138
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.101893

Alignment:
GGSKGATCTGGCTG
--ATGGGCTGACAG

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

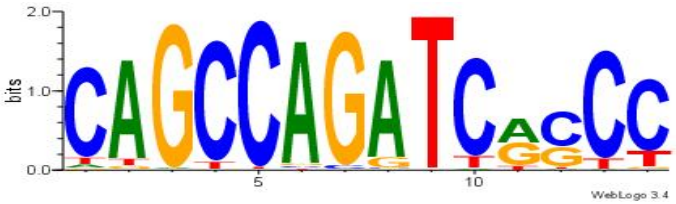

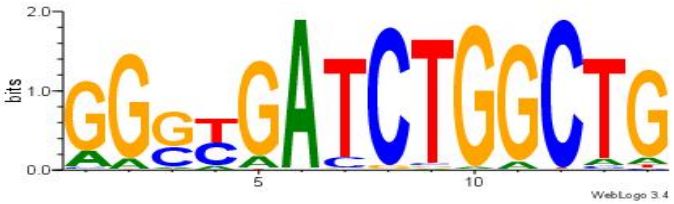

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.102466

Alignment:

```
TGTTATGCCTGAAAGT
---ATGGGCTGACAG-
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

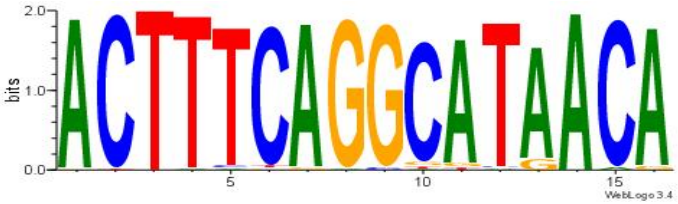

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

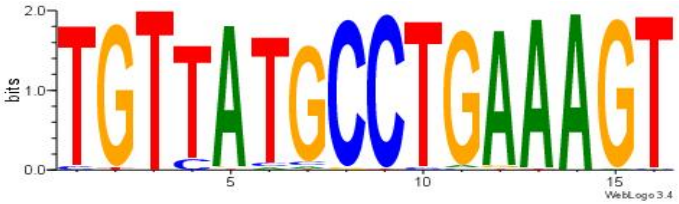

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.102553

Alignment:

```
AAGTCTCCCAATTACAACT
CTGTCAGCCCAT-------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

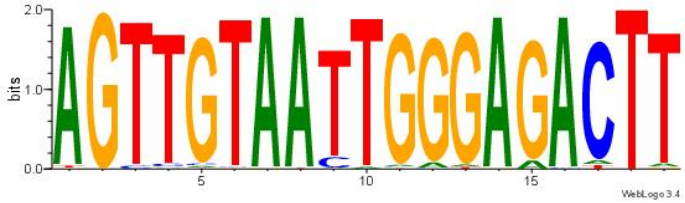

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

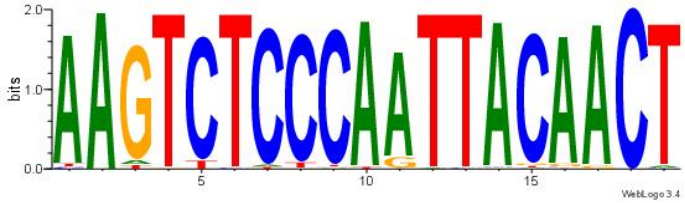

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.102706

Alignment:
CAAASCKGTCATAGGCCAT
-------CTGTCAGCCCAT

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

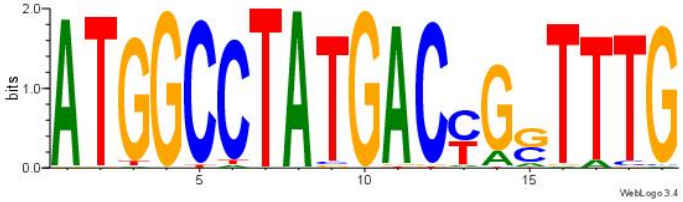

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

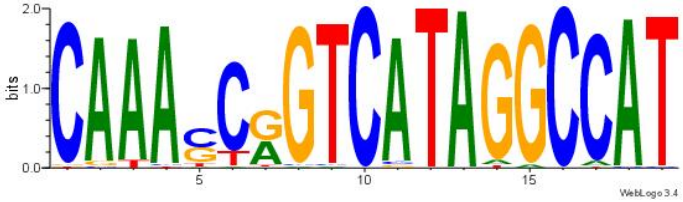

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.103006

Alignment:
CGCGGCGCTTGCGGGCCAGC
-CTGTCAGCCCAT-------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

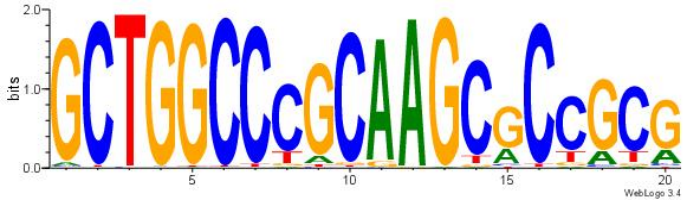

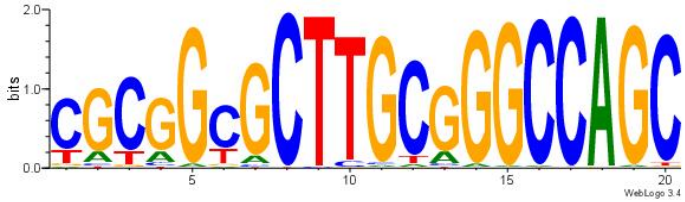

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.103044

Alignment:

```
GTTTAACCATTGAGGGCCAG
--------ATGGGCTGACAG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

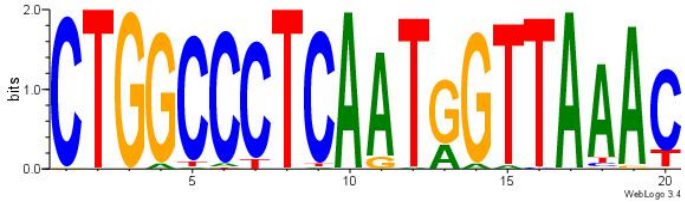

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

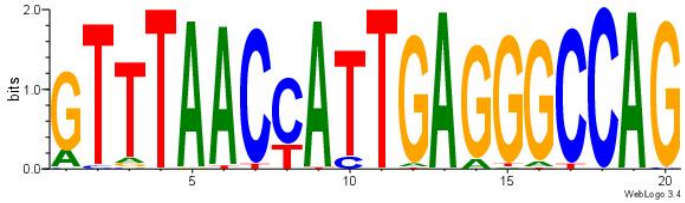

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.103336

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-------ATGGGCTGACAG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

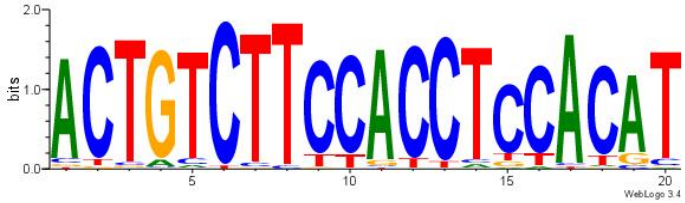

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

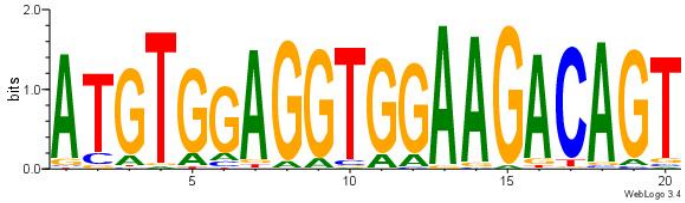

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.103726

Alignment:
TGCTGGAGGTCCACTCCAGA
--CTGTCAGCCCAT------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

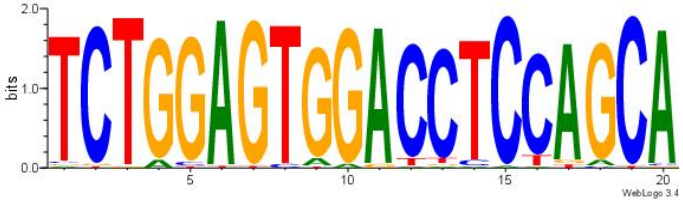

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

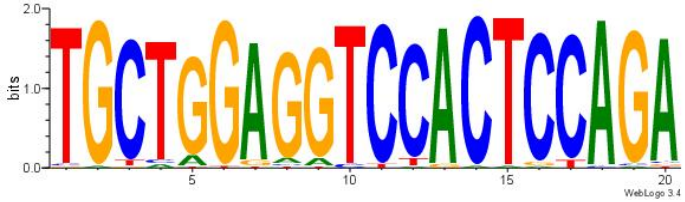

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.10396

Alignment:
AGACAGTGGGYGCAGGHCA
---CTGTCAGCCCAT----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

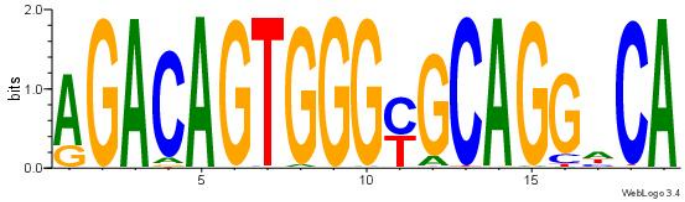

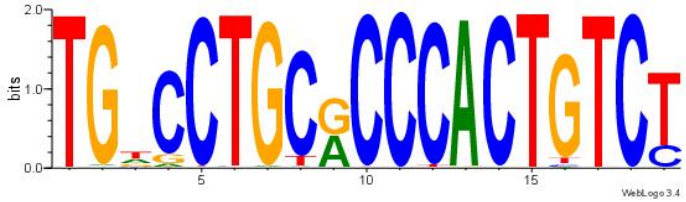

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.104344

Alignment:

```
GACCTGCAGCCCGCCATG
----CTGTCAGCCCAT--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

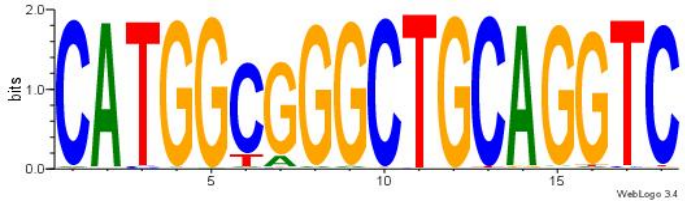

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

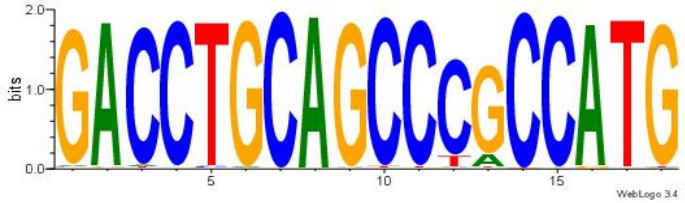

Dataset #: 1

Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.104393

Alignment:

```
ACACCTATTCGCACAC
----CTGTCAGCCCAT
```

Original motif Consensus sequence: ACACCTATTCGCACAC

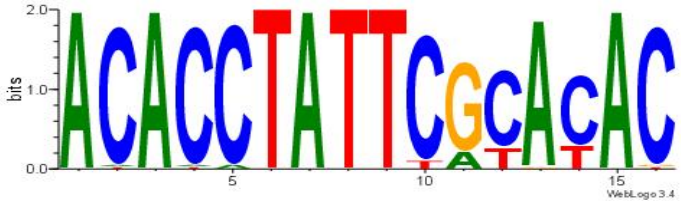

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

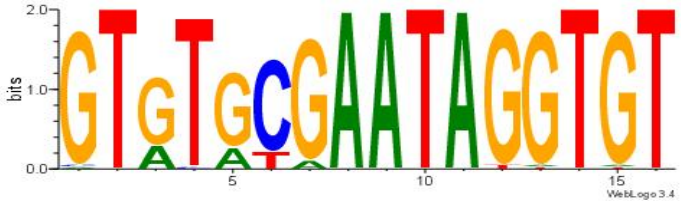

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.104488

Alignment:
GCGGCCGGGCAGAG
ATGGGCTGACAG--

Original motif Consensus sequence: CTCTGCCCGGCCGC

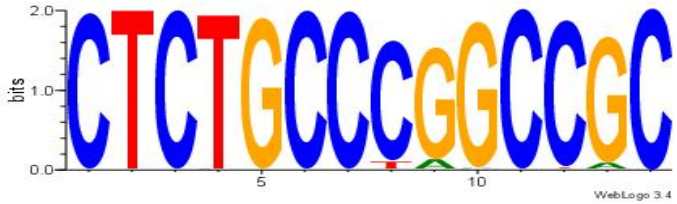

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

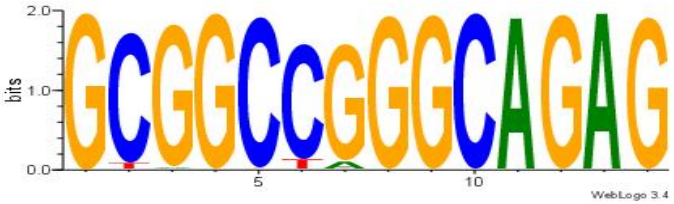

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.104892

Alignment:
TGATACCCAGGCAAACAG
------ATGGGCTGACAG

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

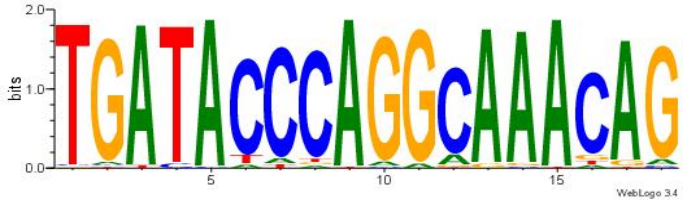

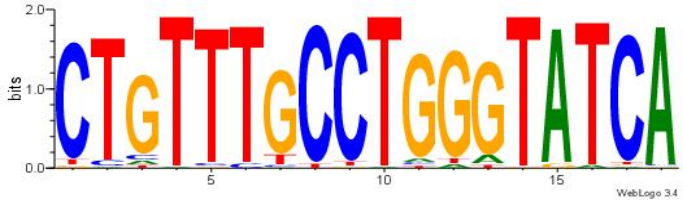

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.105259

Alignment:

```
ATGTAACCAAAYACCACCTG
CTGTCAGCCCAT--------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

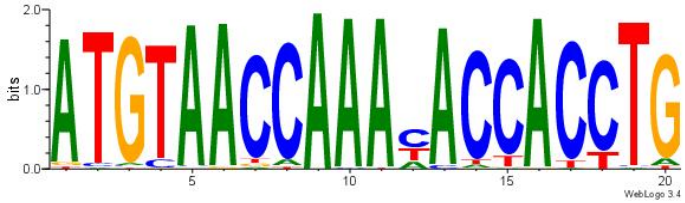

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

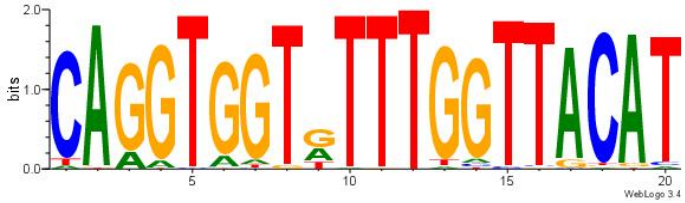

Dataset #:	1

Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.10536

Alignment:

```
CTGGGCAACAAGAG
ATGGGCTGACAG--
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

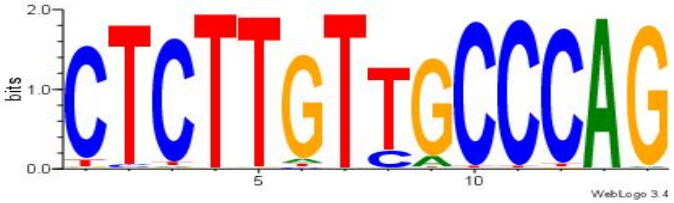

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

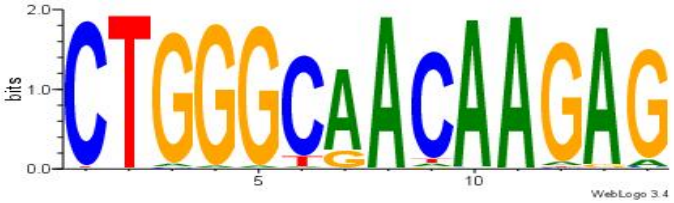

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.105589

Alignment:
CTCCCAGCCGCCTG
CTGTCAGCCCAT--

Original motif Consensus sequence: CAGGCGGCTGGGAG

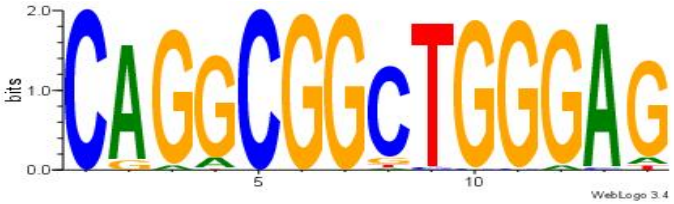

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

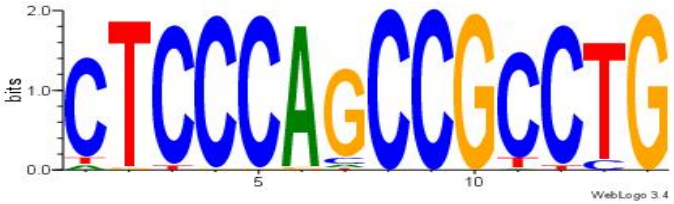

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.105633

Alignment:
AATCAACCCTGGYRATCAAT
--------CTGTCAGCCCAT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

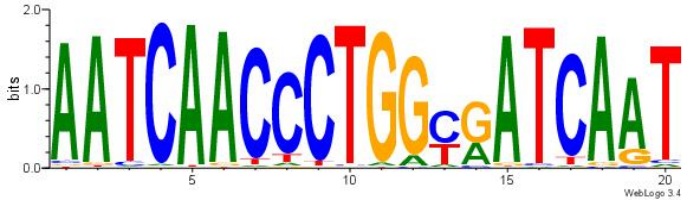

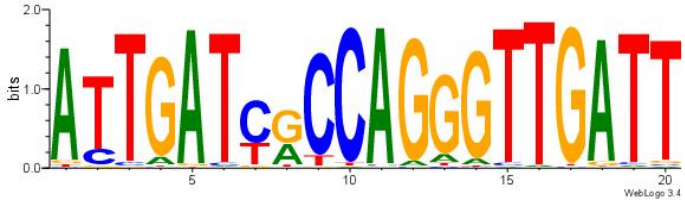

Dataset #:	1
Motif ID:	22
Motif name:	Motif 22
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.106198

Alignment:

```
ATCTCAGACKRY
CTGTCAGCCCAT
```

Original motif Consensus sequence: ATCTCAGACKRY

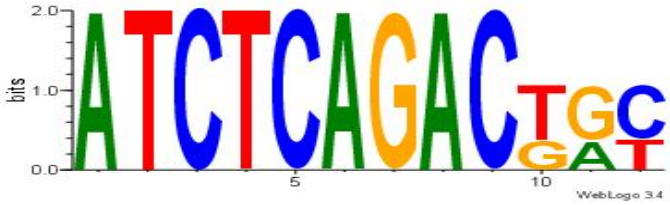

Reverse complement motif Consensus sequence: KMRGTCTGAGAT

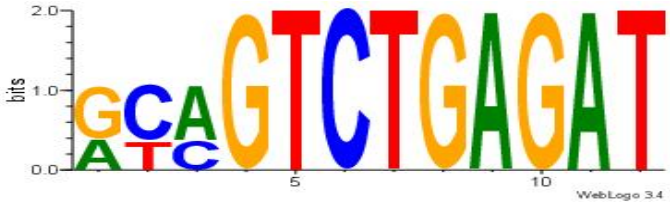

Dataset #:	1
Motif ID:	136

Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.106427

Alignment:

```
CCCTCACTGCCCGGGG
--CTGTCAGCCCAT--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

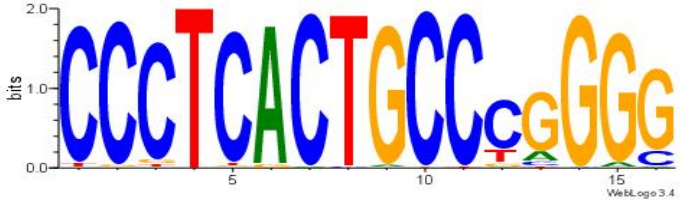

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

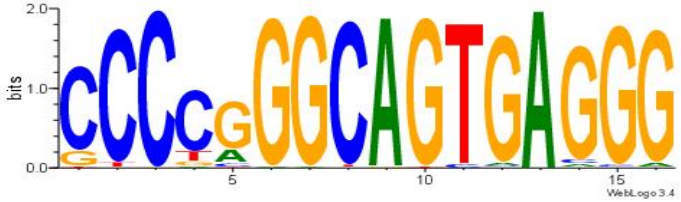

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.106434

Alignment:
TTTGTTATAGCAG
-CTGTCAGCCCAT

Original motif Consensus sequence: CTGCTATAACAAA

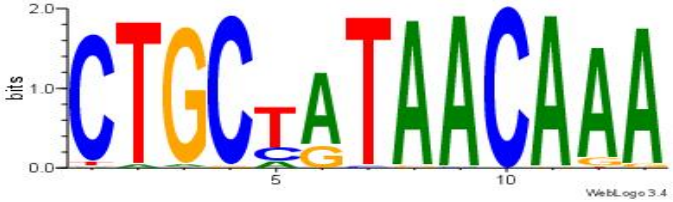

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

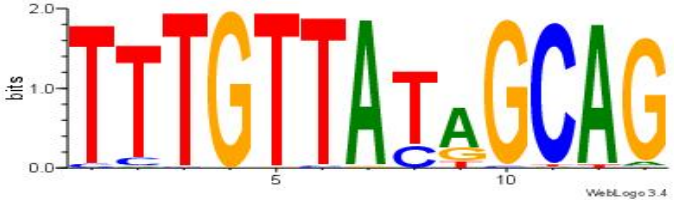

Dataset #: 1 Motif ID: 210 Motif name: Motif 210

Original motif Consensus sequence: CTCGGATGGTAA

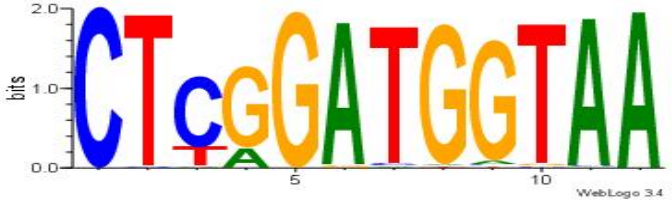

Reverse complement motif Consensus sequence: TTACCATCCGAG

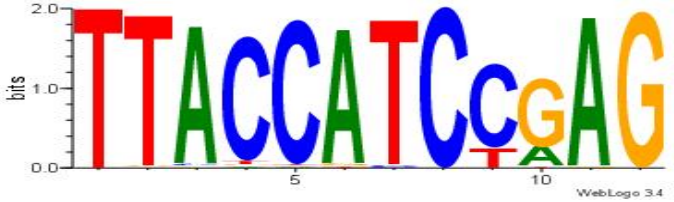

Best Matches for Motif ID 210 (Highest to Lowest)

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 12
Similarity score: 0.0447432

Alignment:
CATTTCCAWCTGAGGTAC
----TTACCATCCGAG--

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

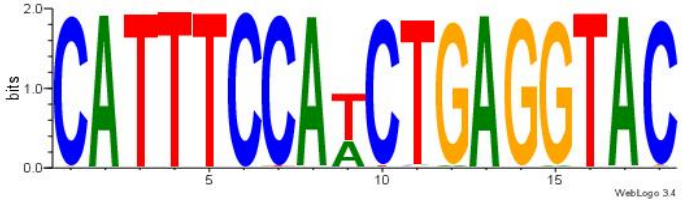

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

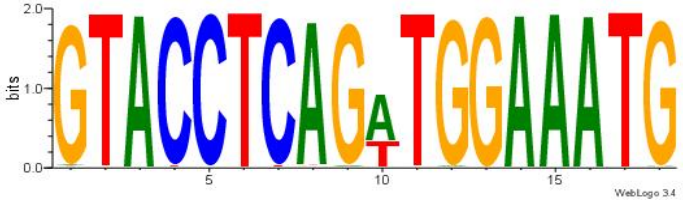

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0679752

Alignment:
GCTTAGCACCYGGGCCAGC
-----TTACCATCCGAG--

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

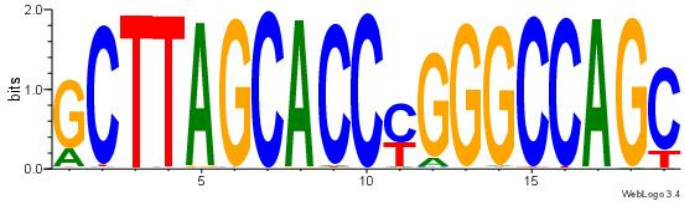

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

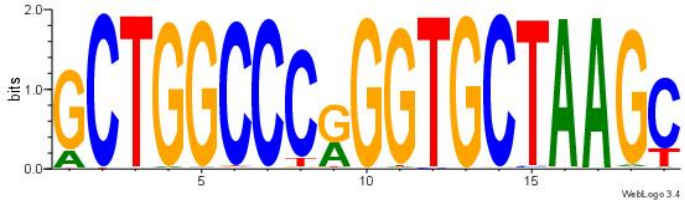

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.078255

Alignment:

```
GTCCCATCGACCACCCAAG
TTACCATCCGAG-------
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

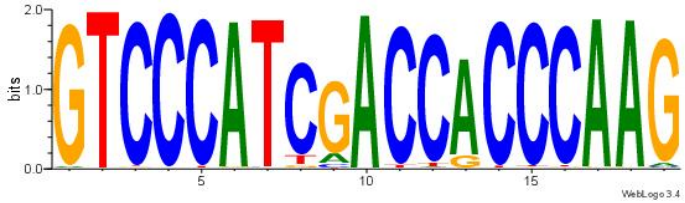

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

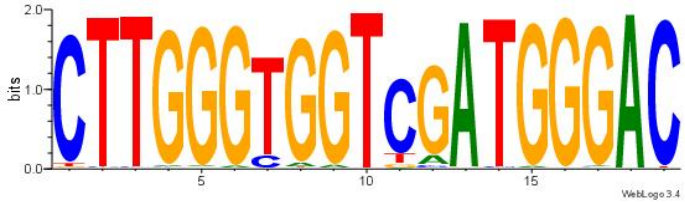

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0812199

Alignment:

```
CTCAGGAATGGAAAACC
--CTCGGATGGTAA---
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

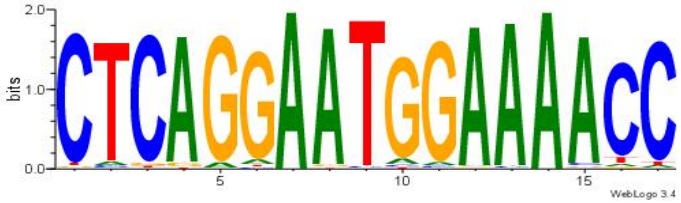

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

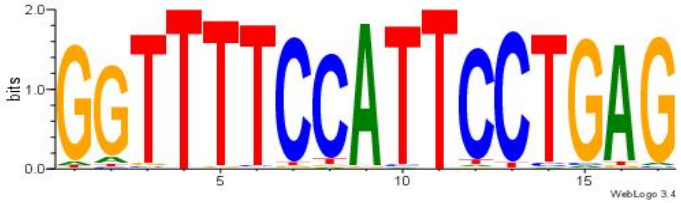

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 12
Similarity score: 0.0825424

Alignment:
GCTCTCAATTGGTCATT
---CTCGGATGGTAA--

Original motif Consensus sequence: AATGACCAATTGAGAGC

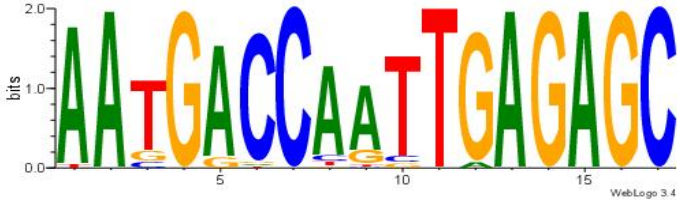

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

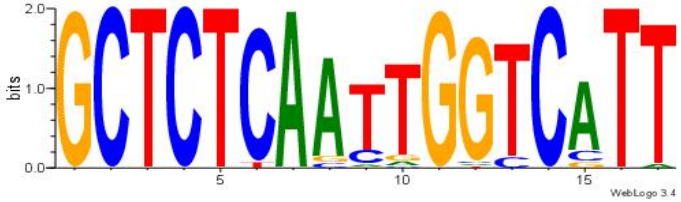

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0835189

Alignment:
CTTTCTGGGCTGGCCAAGG
---CTCGGATGGTAA----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

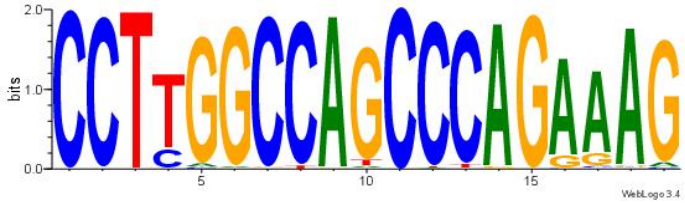

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

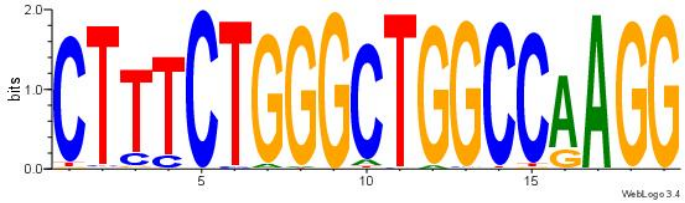

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0854168

Alignment:

```
TTGGTAGGATCCGTGATGCC
---TTACCATCCGAG-----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

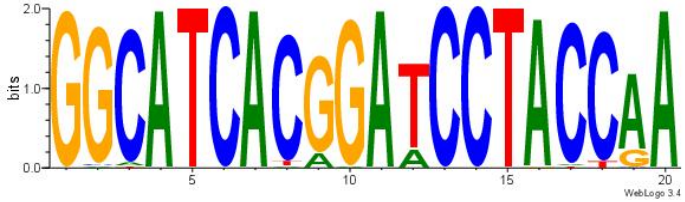

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

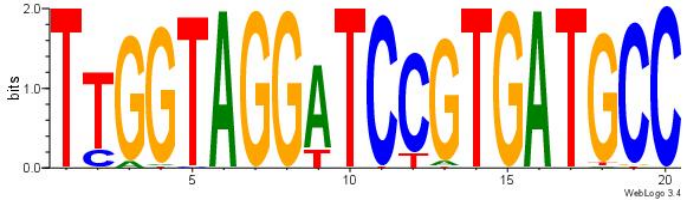

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.087551

Alignment:

```
CCTMACAATCATGG
--TTACCATCCGAG
```

Original motif Consensus sequence: CCATGATTGTRAGG

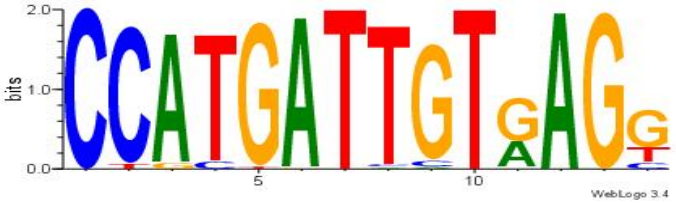

Reverse complement motif Consensus sequence: CCTMACAATCATG

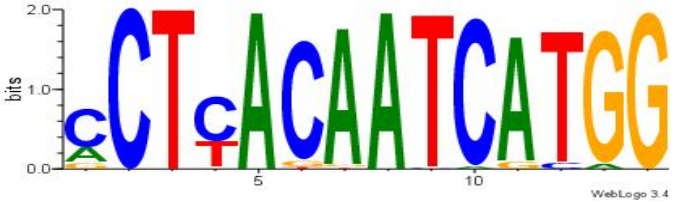

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0881506

Alignment:
GGACCTTCAGAGC
TTACCATCCGAG-

Original motif Consensus sequence: GCTCTGAAGGTCC

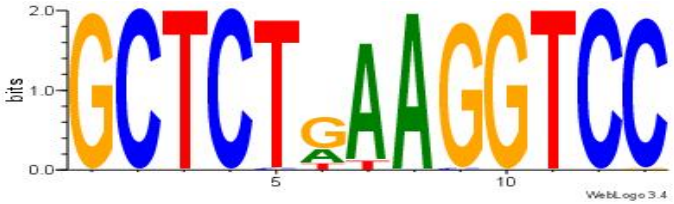

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

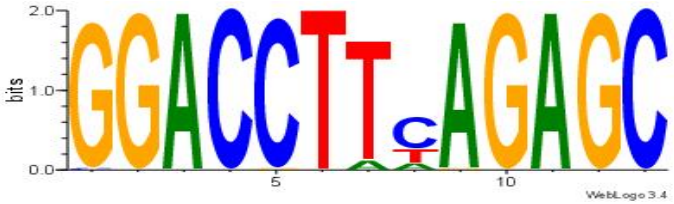

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0919584

Alignment:
CGCCCCGTCTGGGAAGTG
---CTCGGATGGTAA---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

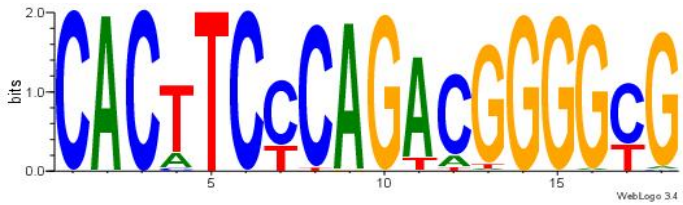

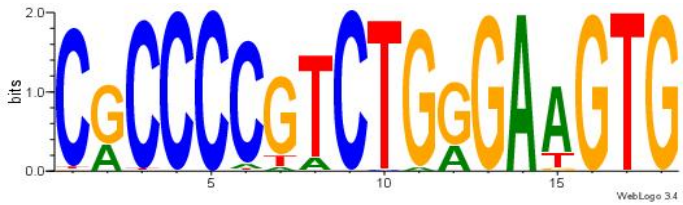

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0948807

Alignment:

```
TTMGTCCCAGAGGGGCACC
-----CTCGGATGGTAA--
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

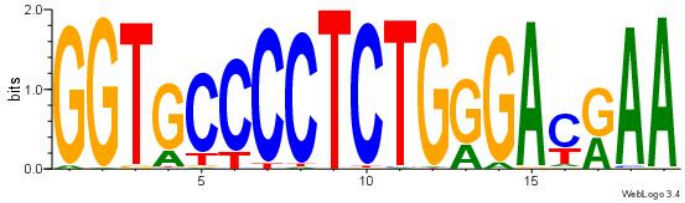

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

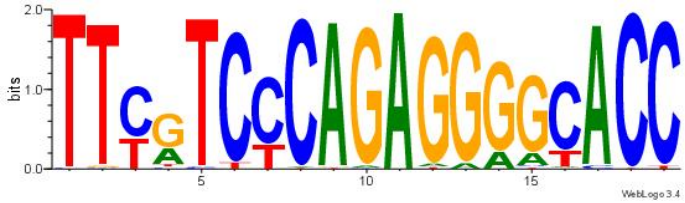

Dataset #:	1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0955515

Alignment:

```
MCCYGGCWSMGASGSTCCT
-CTCGGATGGTAA------
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

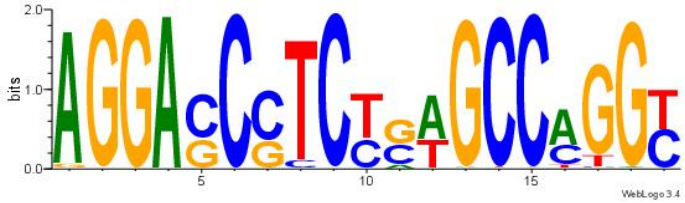

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

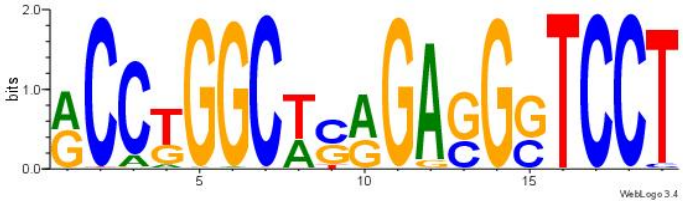

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.0965614

Alignment:
CAACATGGATGRARCTGGAG
---CTCGGATGGTAA-----

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

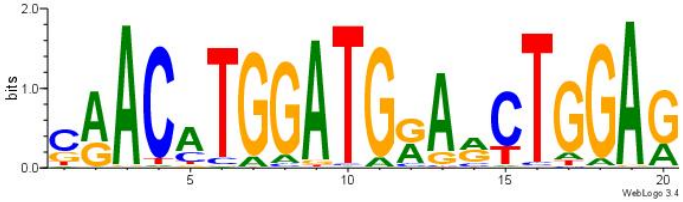

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

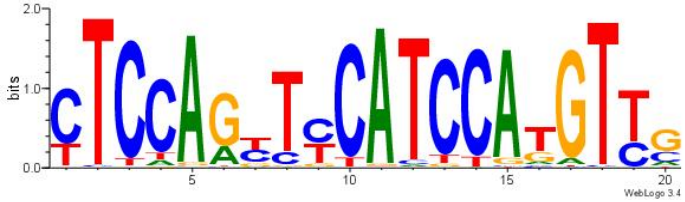

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0969704

Alignment:
GCCKCCCCGTCCGGGAGGGA
---TTACCATCCGAG-----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

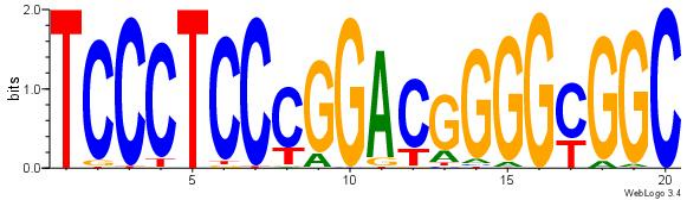

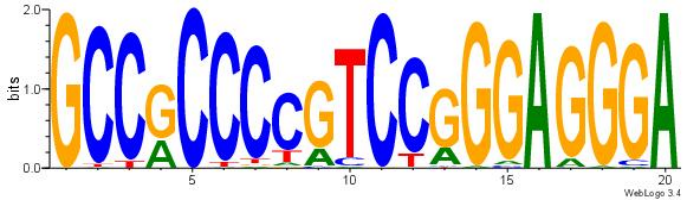

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0973678

Alignment:

```
CTCACAGAGTTAAA
CTCGGATGGTAA--
```

Original motif Consensus sequence: CTCACAGAGTTAAA

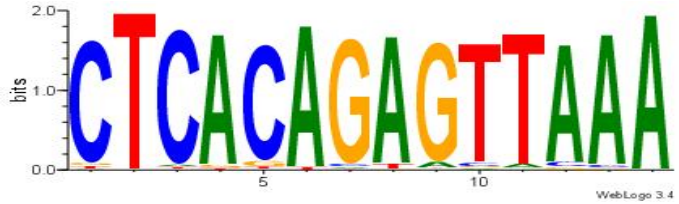

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

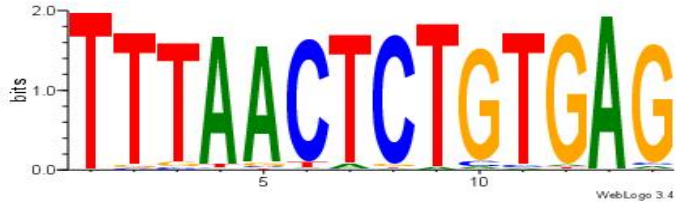

Dataset #:	1
Motif ID:	45

Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0980684

Alignment:

```
CACTTTCCAGACTGGGCA
---TTACCATCCGAG---
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

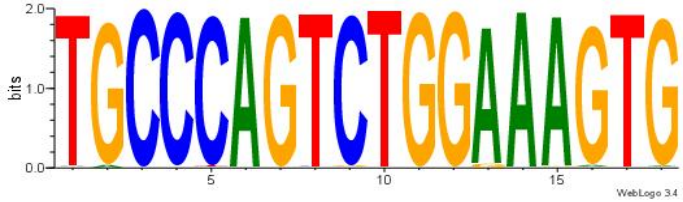

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

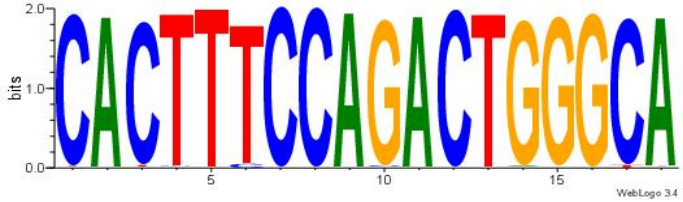

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0982472

Alignment:
GCTGGGATTACAGG
-CTCGGATGGTAA-

Original motif Consensus sequence: GCTGGGATTACAGG

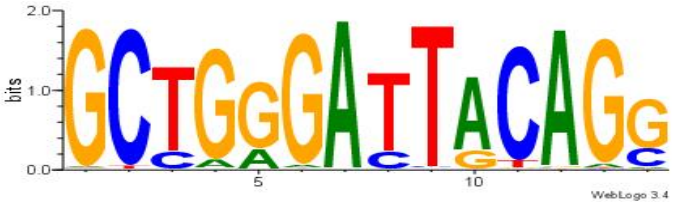

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0983984

Alignment:
CTGGCCCTCAATGGTTAAAC
------CTCGGATGGTAA--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

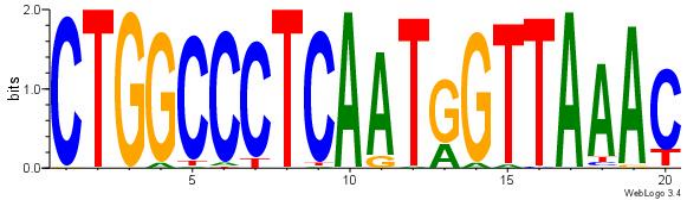

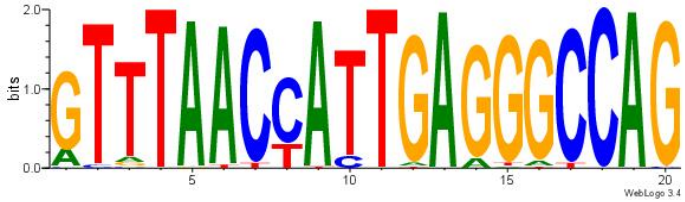

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0984238

Alignment:

```
TAMGACCTCAGGTCCTCAG
------CTCGGATGGTAA-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

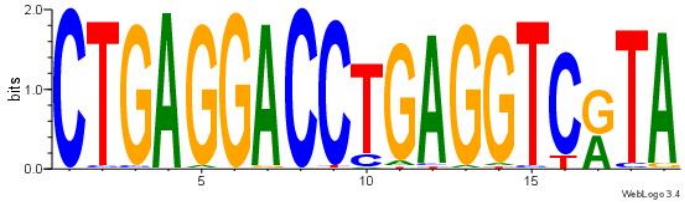

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

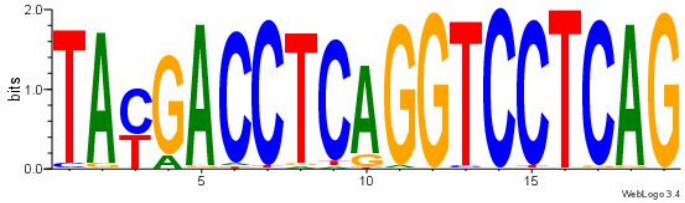

Dataset #:	1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0987745

Alignment:

```
GTTGGCCAGGCTGGTCT
CTCGGATGGTAA-----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

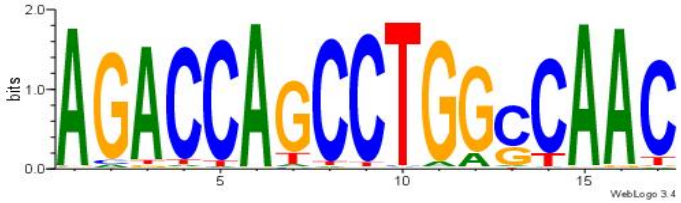

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

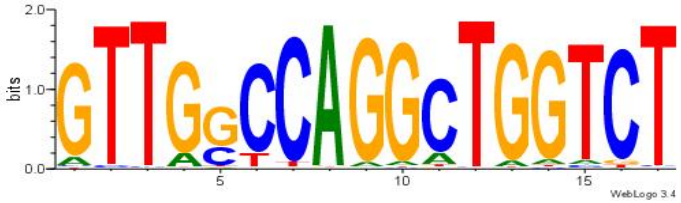

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0990833

Alignment:
CCACCAACAGTGTAY
TTACCATCCGAG---

Original motif Consensus sequence: CCACCAACAGTGTAY

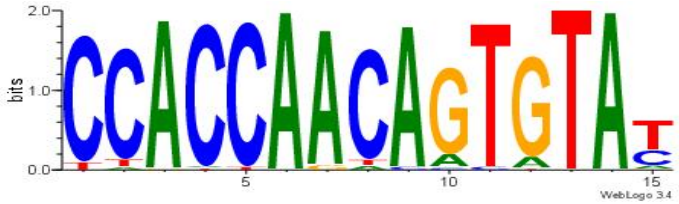

Reverse complement motif Consensus sequence: MTACACTGTTGGT

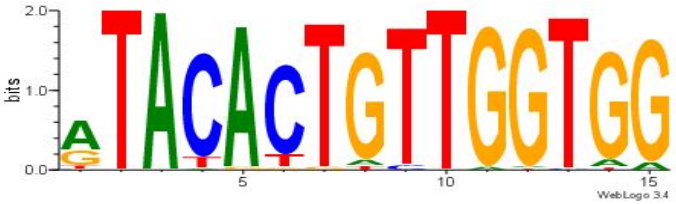

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0996576

Alignment:
TACACCCTCCGCAGCC
-TTACCATCCGAG---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

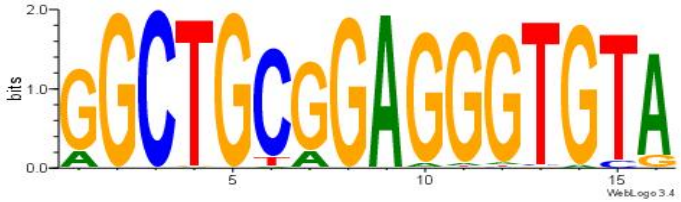

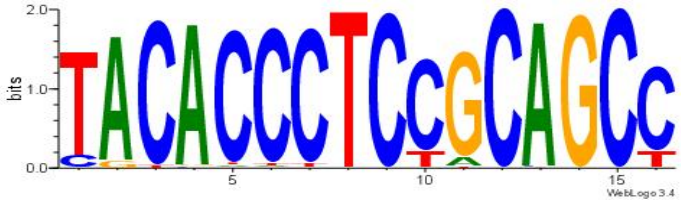

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0998234

Alignment:

```
GTTGGATTCCCAG
-TTACCATCCGAG
```

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	179

Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0999945

Alignment:

```
AGGTCCTTCAGGAGGTATTC
------CTCGGATGGTAA--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

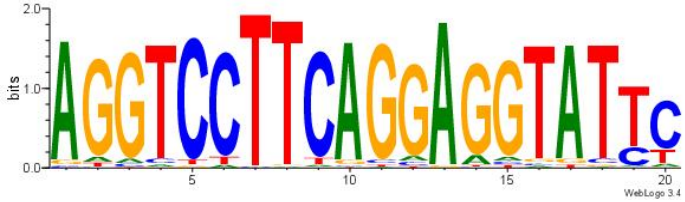

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

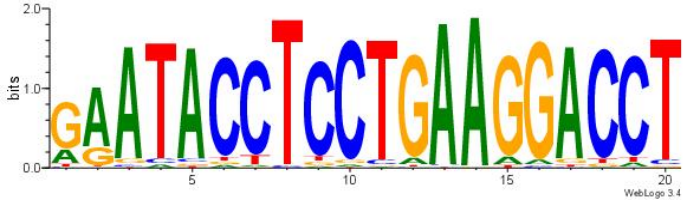

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.100862

Alignment:
CACCAGACTCAGGAGCCCAG
--------TTACCATCCGAG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

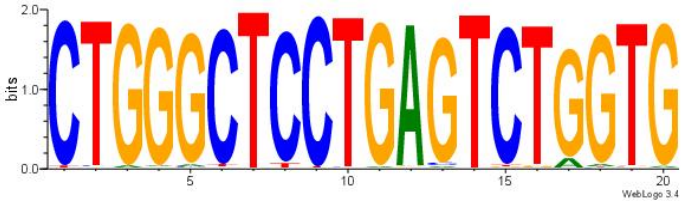

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

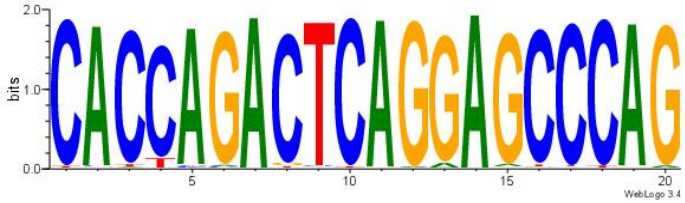

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.101054

Alignment:
ACCCYGTCTGGGAGGTG
--CTCGGATGGTAA---

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

Reverse complement motif Consensus sequence:
CACCTCCCAGACMGGGT

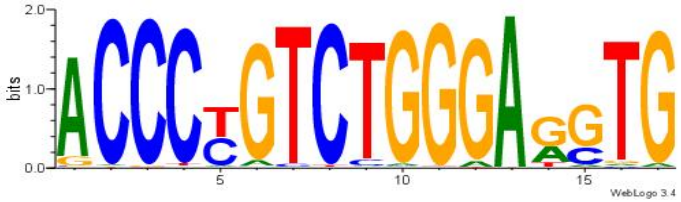

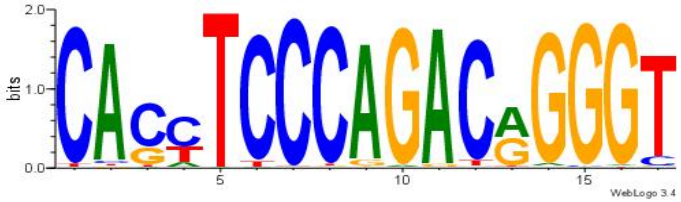

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.101658

Alignment:

```
GAAHCAACCKAAKTGTCCAT
TTACCATCCGAG--------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

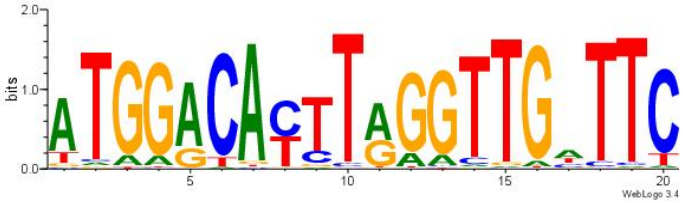

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

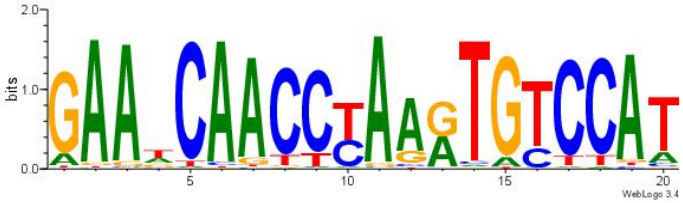

Dataset #:	1

Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.101946

Alignment:

```
CTCCCAGCCGCCTG
TTACCATCCGAG--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

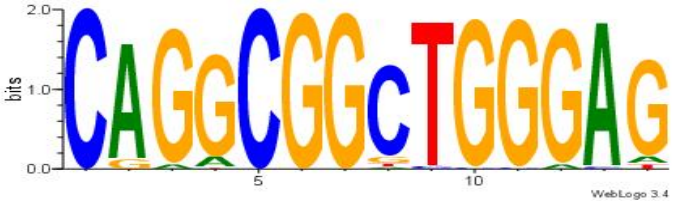

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

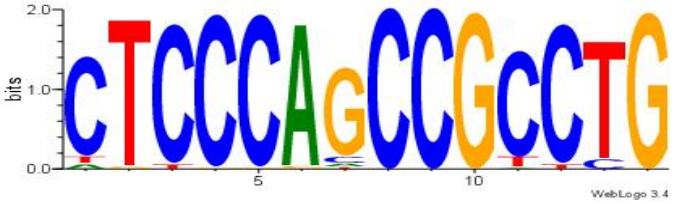

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.103897

Alignment:
GGGGGCTGACCCCCCCACC
-TTACCATCCGAG------

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

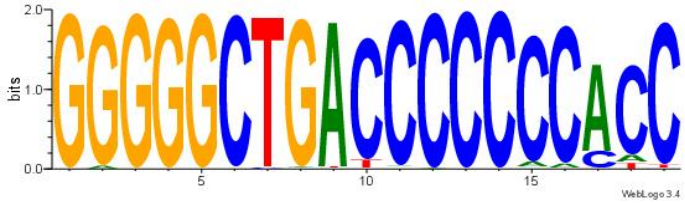

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

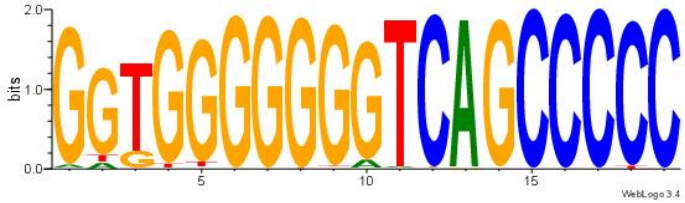

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.105787

Alignment:
CGAGCCTCCCCGAYGAGCGC
---TTACCATCCGAG-----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

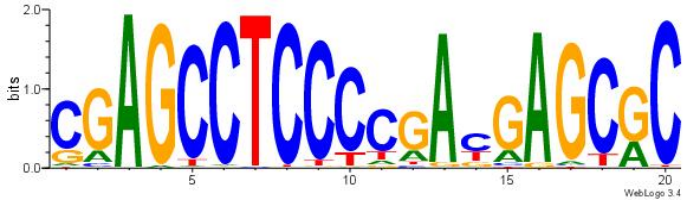

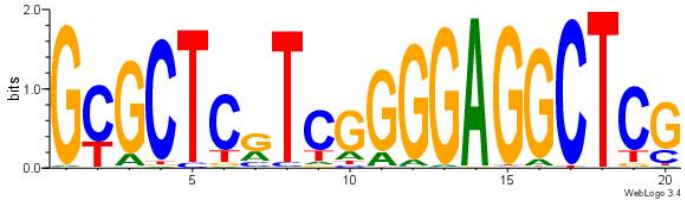

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.105793

Alignment:

```
AGTGTTTCCAAMCTGCT
----TTACCATCCGAG-
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

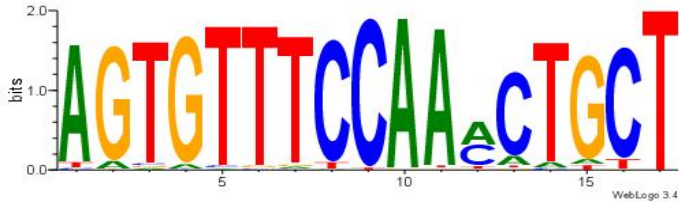

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

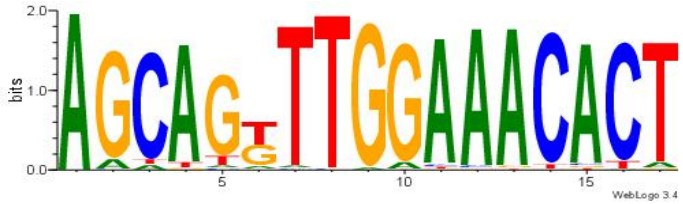

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.106126

Alignment:

```
ACATCCCAGACGATGGGCG
-----TTACCATCCGAG--
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

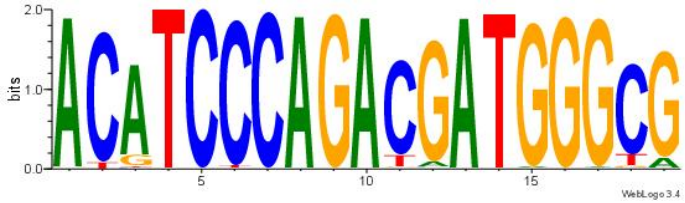

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

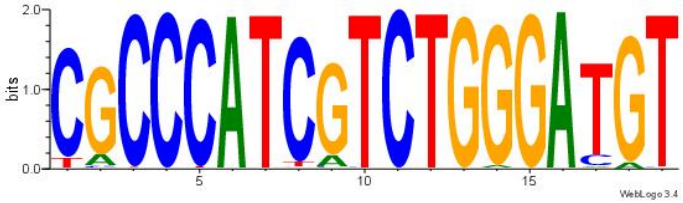

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.106257

Alignment:
AGCTCCCAGCGTGAGCGACG
--CTCGGATGGTAA------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

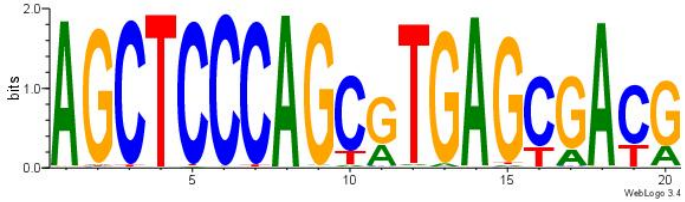

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

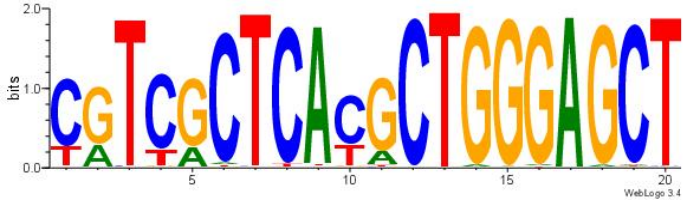

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.106312

Alignment:
CCCTCACTGCCCGGGG
-TTACCATCCGAG---

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

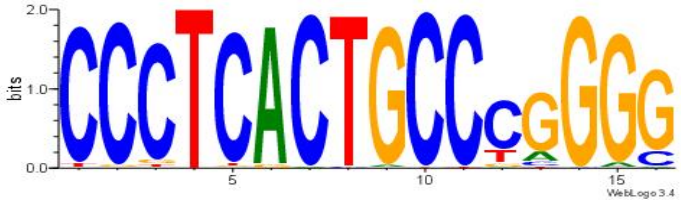

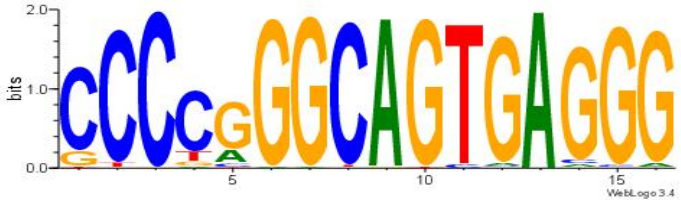

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.109641

Alignment:

```
AACTGAGGCTCAGAGA
---TTACCATCCGAG-
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

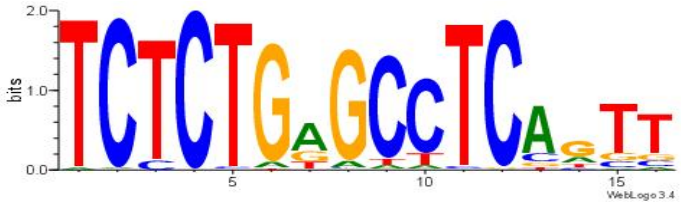

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

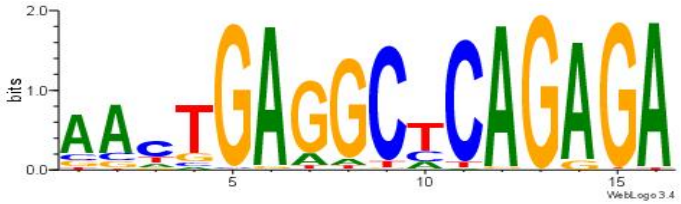

Dataset #:	1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.109669

Alignment:

```
ATACAATGGGGGTACAGRC
-------TTACCATCCGAG
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

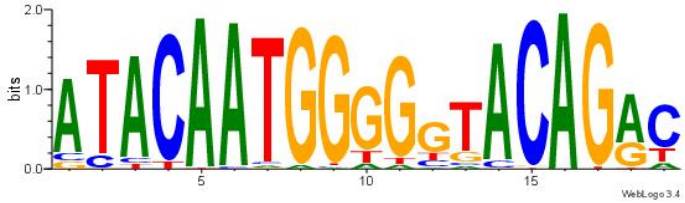

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

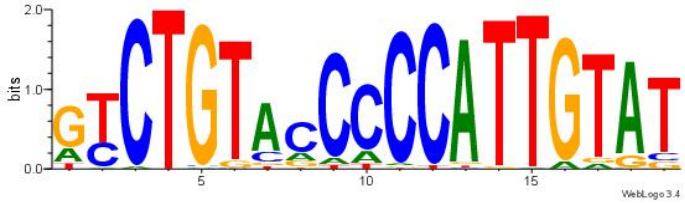

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.110448

Alignment:
CCTCCCAGCCGCCT
-TTACCATCCGAG-

Original motif Consensus sequence: AGGCGGCTGGGAGG

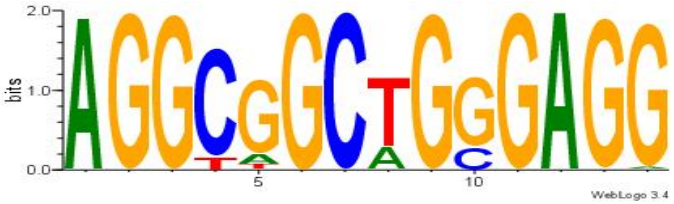

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.111396

Alignment:
CATTAGATTCTCATAGGA
-CTCGGATGGTAA-----

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

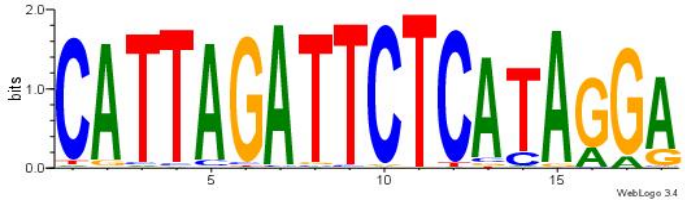

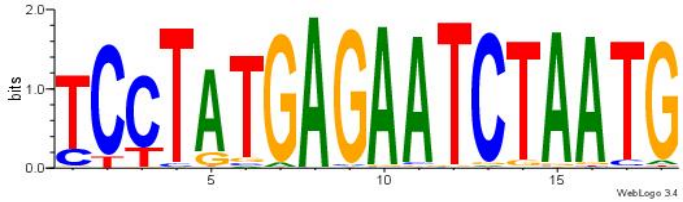

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.111878

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
--------CTCGGATGGTAA
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

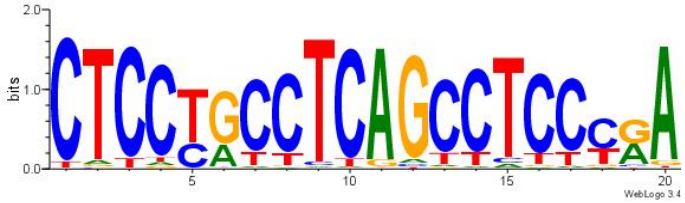

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

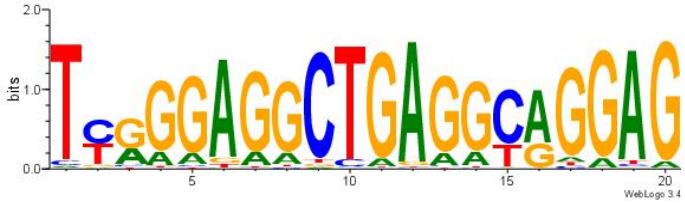

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.112362

Alignment:

```
KACGGGCTTAARAAACGGC
-------TTACCATCCGAG
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

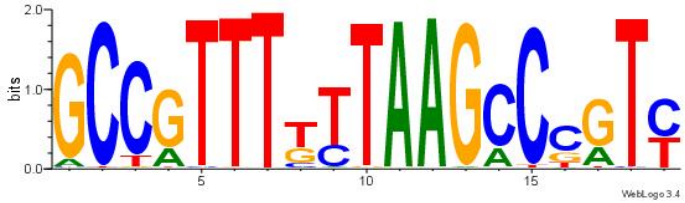

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

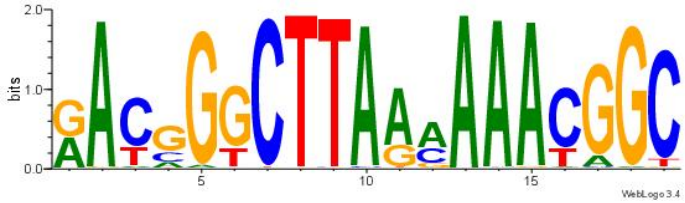

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.112969

Alignment:
GATCACGAGGTCAGGAG
-CTCGGATGGTAA----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

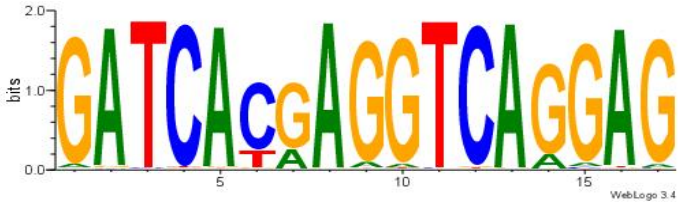

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

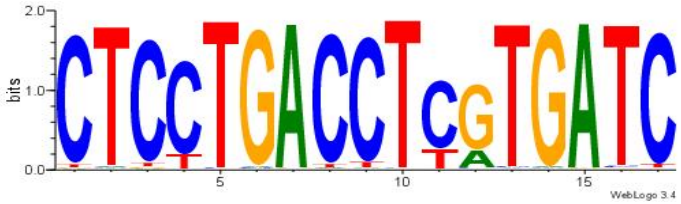

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.113027

Alignment:
MGTCTMKCTCTGTKGCCCAG
-CTCGGATGGTAA-------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

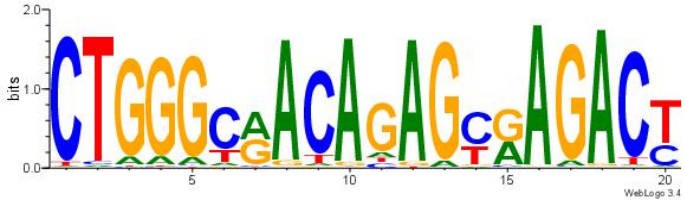

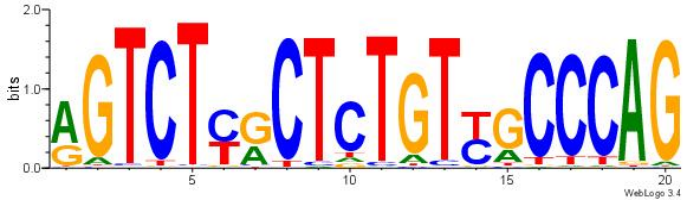

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.113039

Alignment:

```
CCTCCCSGACGRG
TTACCATCCGAG-
```

Original motif Consensus sequence: CCTCCCSGACGRG

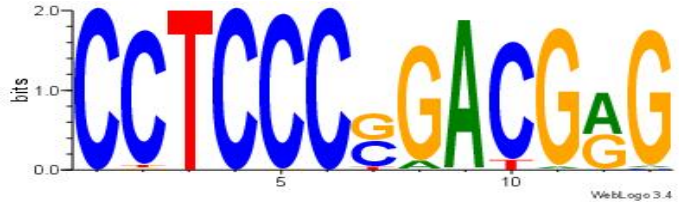

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

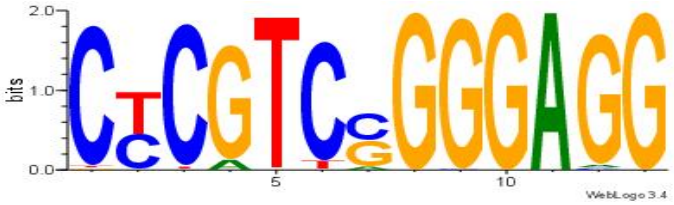

Dataset #:	1
Motif ID:	242

Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.113324

Alignment:

```
CMCAGTTCACAATAGGGTT
-----TTACCATCCGAG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

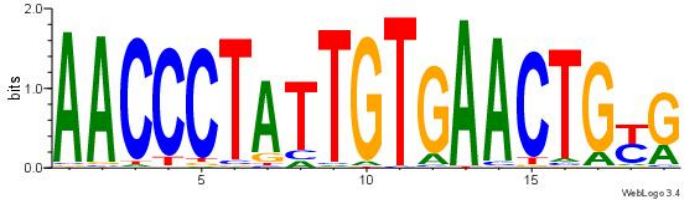

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

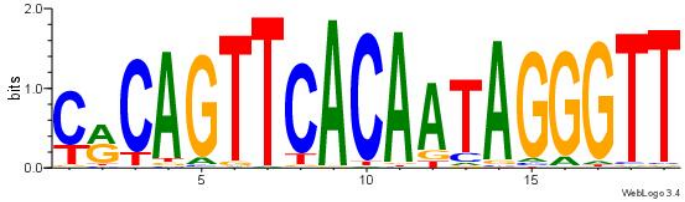

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.113381

Alignment:
GAAATTGACTTCCTCCT
----TTACCATCCGAG-

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

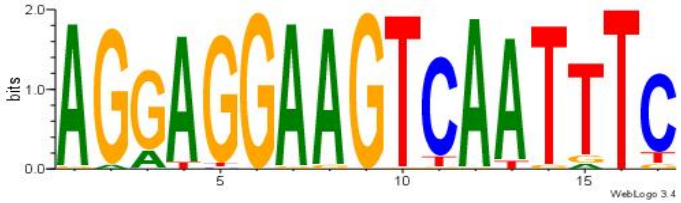

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

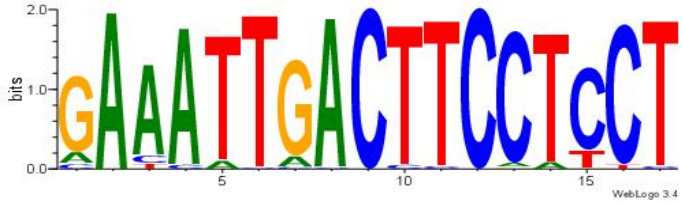

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.114506

Alignment:
ATTCAASATGAGATTTGGG
--TTACCATCCGAG-----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

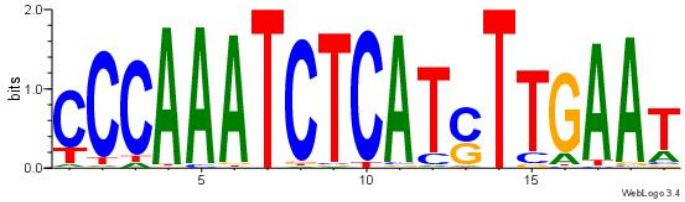

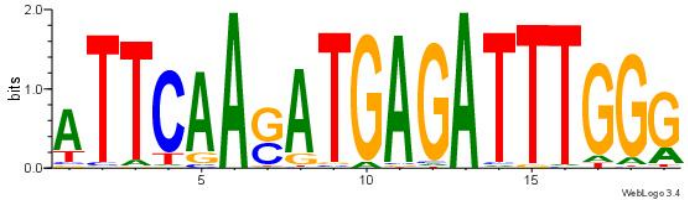

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.114585

Alignment:

```
TATGAGCCTGTAA
-CTCGGATGGTAA
```

Original motif Consensus sequence: TATGAGCCTGTAA

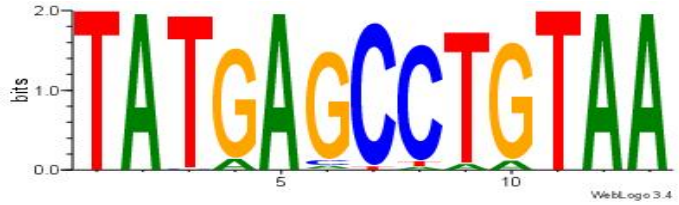

Reverse complement motif Consensus sequence: TTACAGGCTCATA

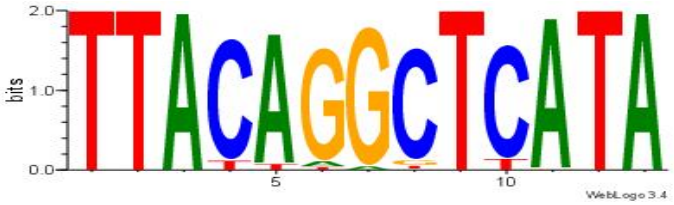

Dataset #:	1
Motif ID:	280

Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.114645

Alignment:

```
ACATCMTCTGAAATCTAGG
TTACCATCCGAG-------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

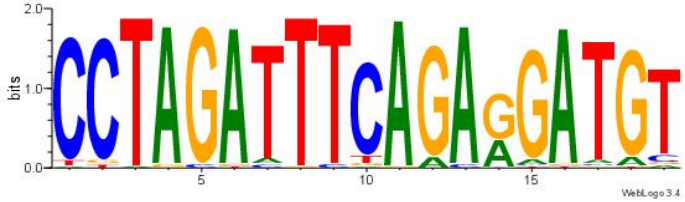

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

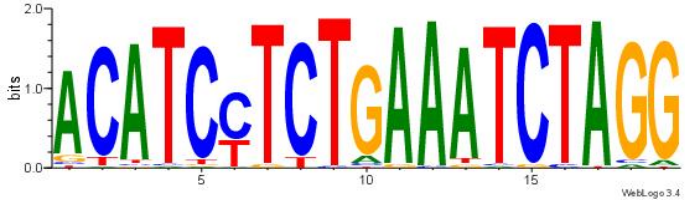

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.115512

Alignment:
CTGTTTGCCTGGGTATCA
---CTCGGATGGTAA---

Original motif Consensus sequence: TGATACCCAGGCAAACAG

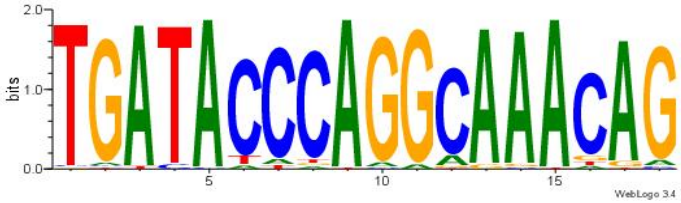

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

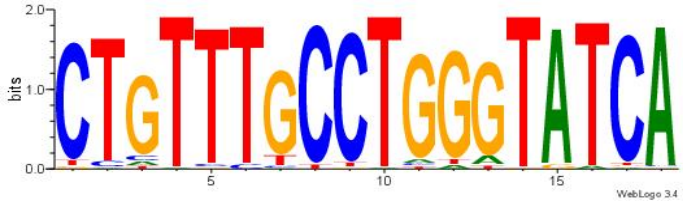

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.115735

Alignment:
CTCAGTGTTAATCTCCTGTC
-------TTACCATCCGAG-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

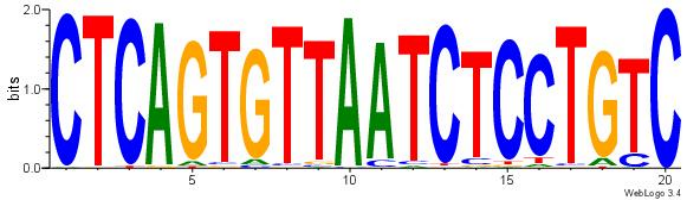

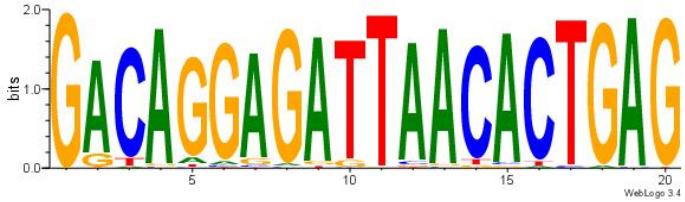

Dataset #: 1 Motif ID: 211 Motif name: Motif 211

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

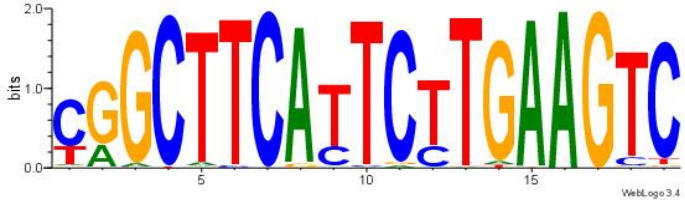

Best Matches for Motif ID 211 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0872886

Alignment:

CCGCTGCACTGTGGGAGCCC
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

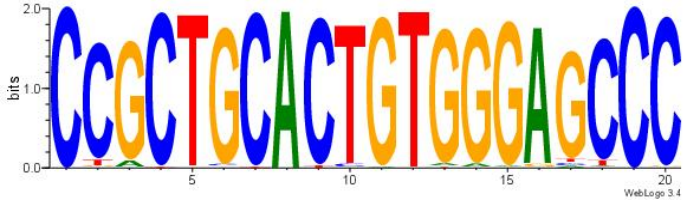

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

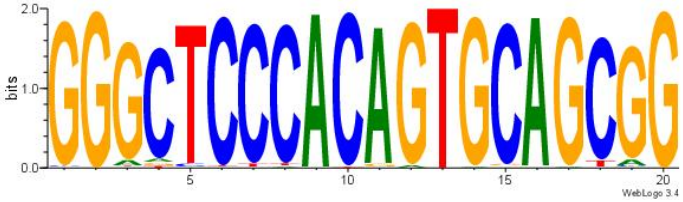

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.109235

Alignment:
GGATCCACTGGGTGAAGCCA
-GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

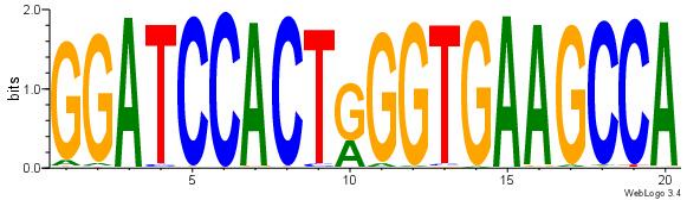

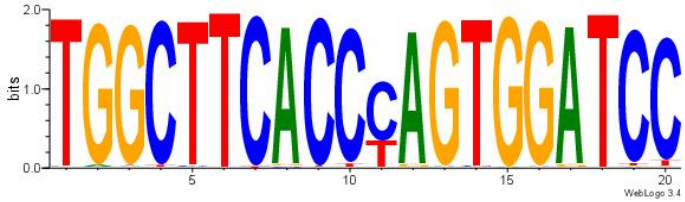

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112192

Alignment:

```
GGCATCACGGATCCTACCAA
GACTTCAAGAATGAAGCCG-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

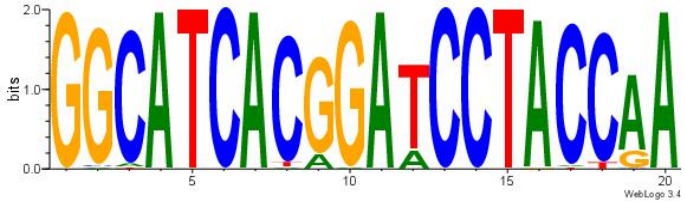

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

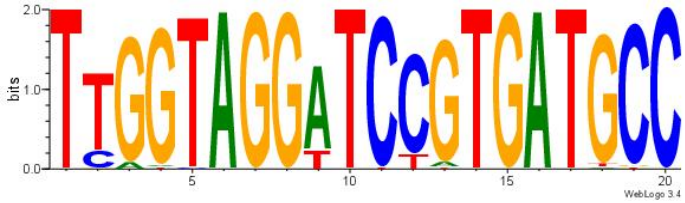

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.113323

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-GACTTCAAGAATGAAGCCG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

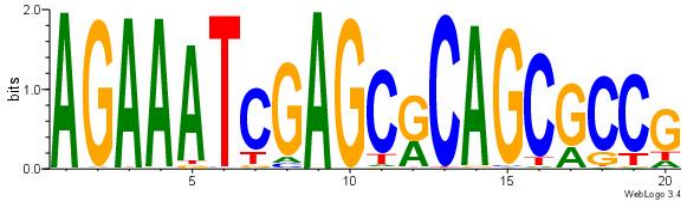

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

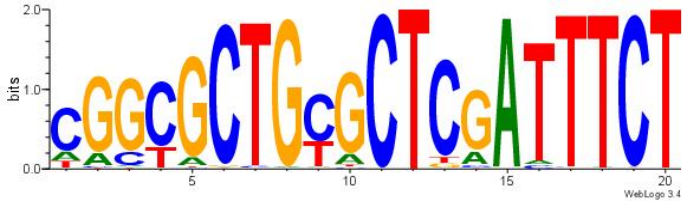

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.114911

Alignment:
ARCTCCTGKSCTCAAGKGAT
-GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

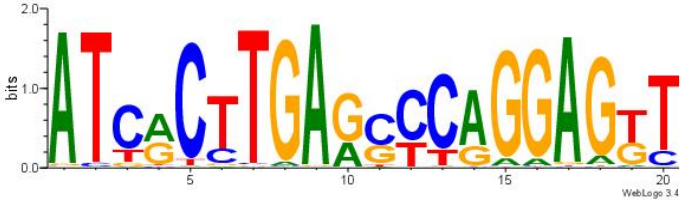

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

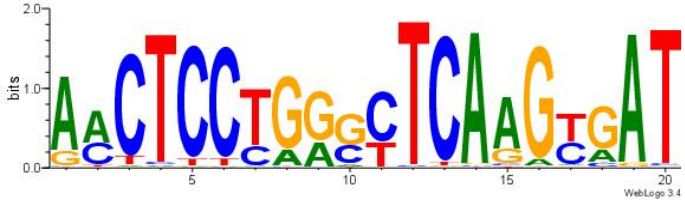

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.118217

Alignment:
CATTCTGGGGTCTGGAGGAY
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

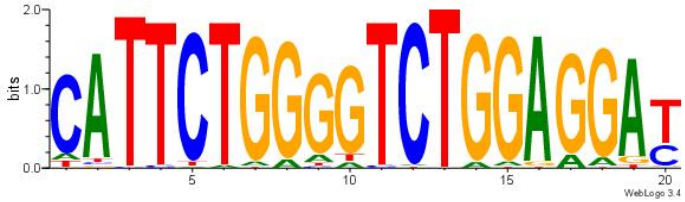

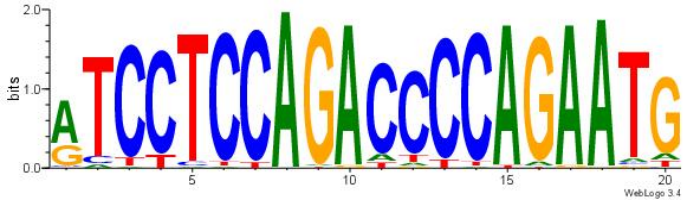

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.121384

Alignment:

```
CCCATGCAAGTCYRAAATCC
-GACTTCAAGAATGAAGCCG
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

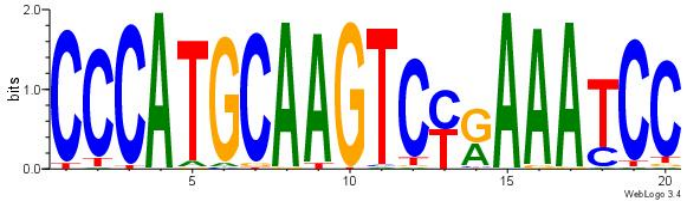

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

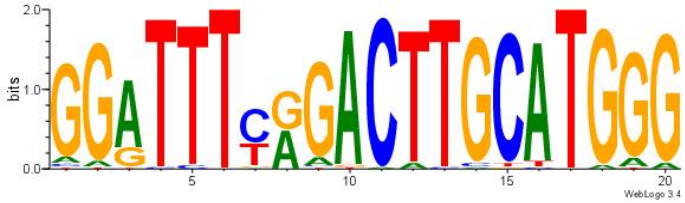

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.122828

Alignment:

```
CACCAGGAGATTATATCCCR
GACTTCAAGAATGAAGCCG-
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

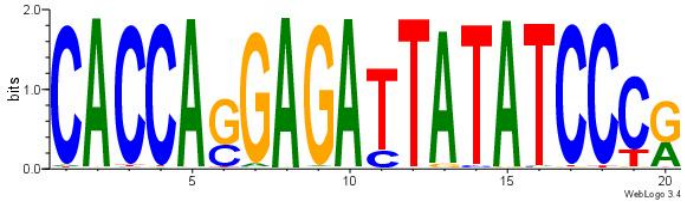

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

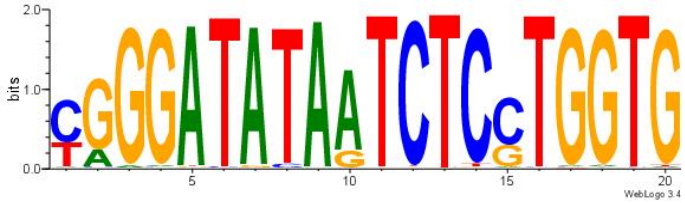

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.123135

Alignment:
TAATTTTATGTGTCAACTTG
-GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

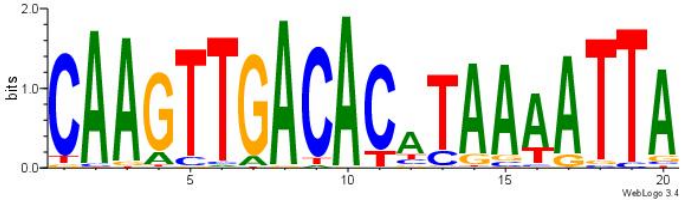

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

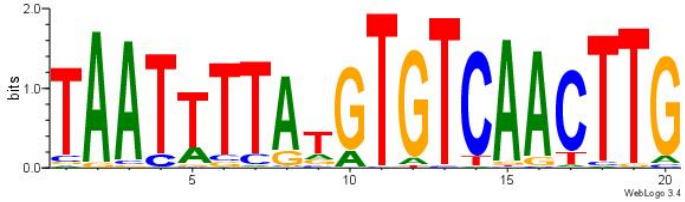

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.124067

Alignment:
GTCTCWAMAAAAAAWAMAAA
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

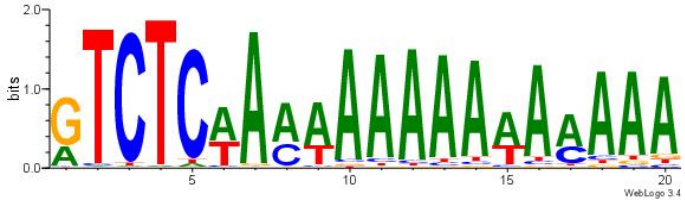

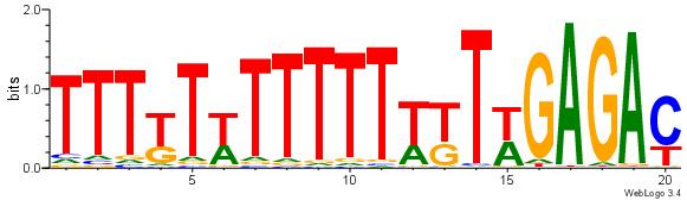

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.124119

Alignment:

```
AAGTCCAAGATCAAGGTGYY
GACTTCAAGAATGAAGCCG-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

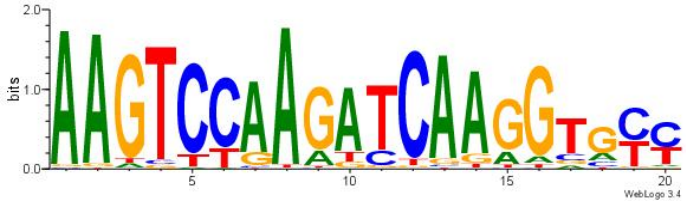

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

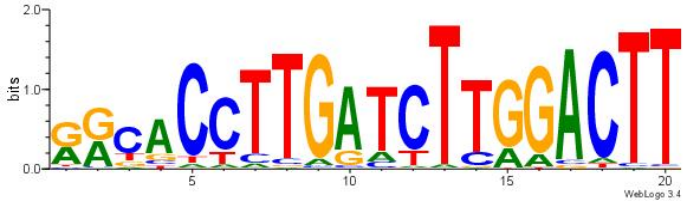

Dataset #: 1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.124426

Alignment:

```
CTCATTTAATCCTCACAAC
CGGCTTCATTCTTGAAGTC
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

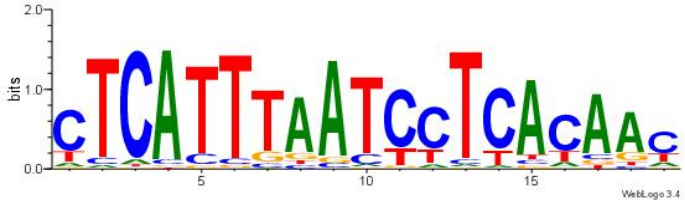

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

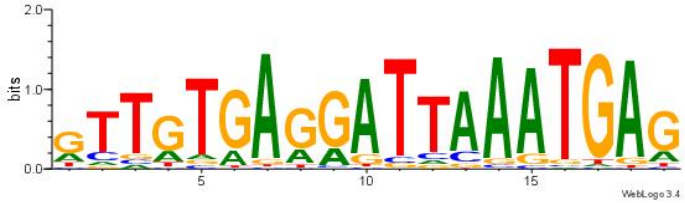

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.12534

Alignment:
AGCTGTGAGAAGAGGGCCAC
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

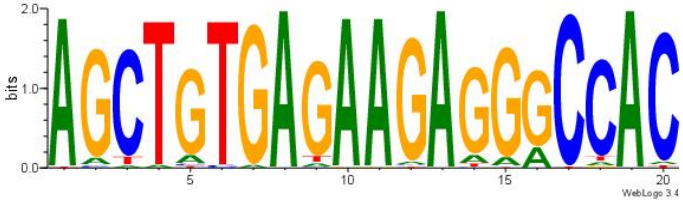

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

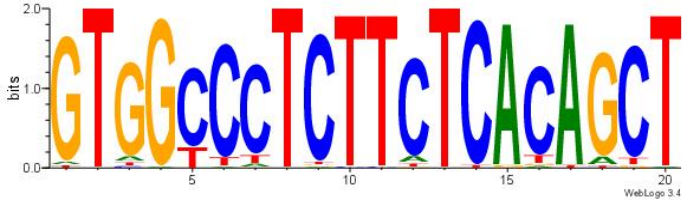

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.126109

Alignment:
GCACATGTAYCCYAGAACTT
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

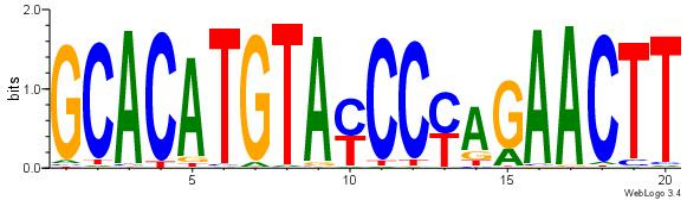

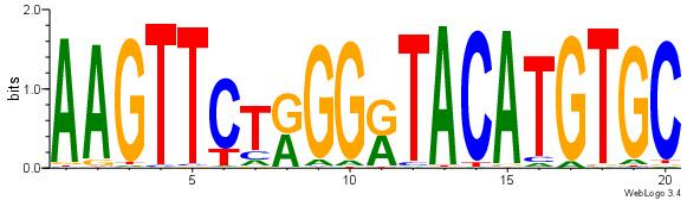

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.126427

Alignment:

```
CAGTCTGTGTCTTTTAATT
CGGCTTCATTCTTGAAGTC
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

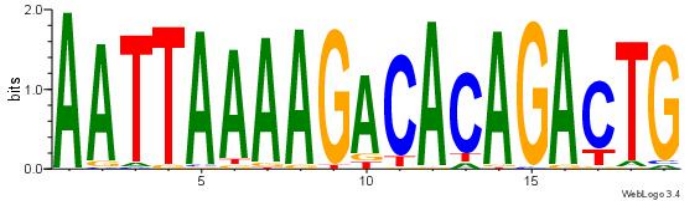

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

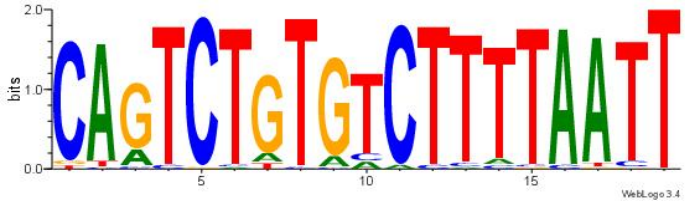

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.12697

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CGGCTTCATTCTTGAAGTC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

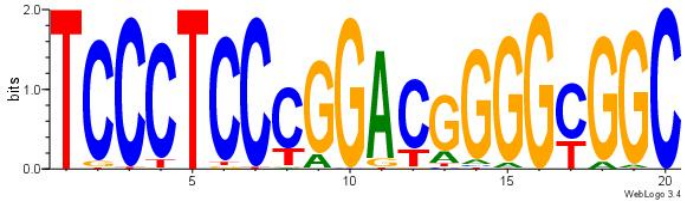

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

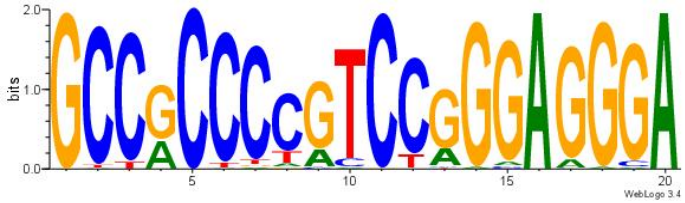

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.127041

Alignment:
AGCTCCCAGCGTGAGCGACG
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

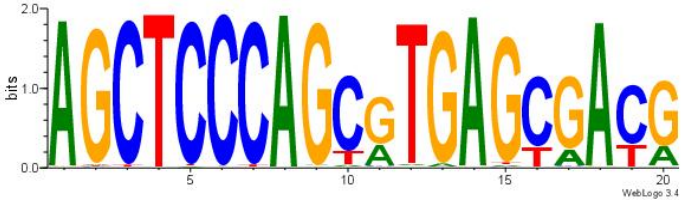

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

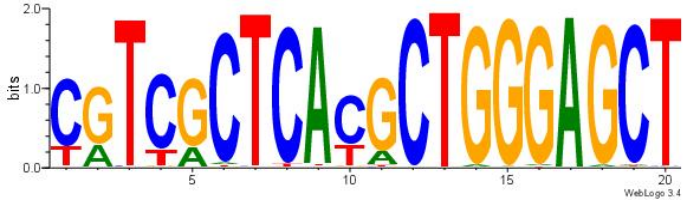

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.129548

Alignment:
GGTGGAGCTGCCTGCCAGTC
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

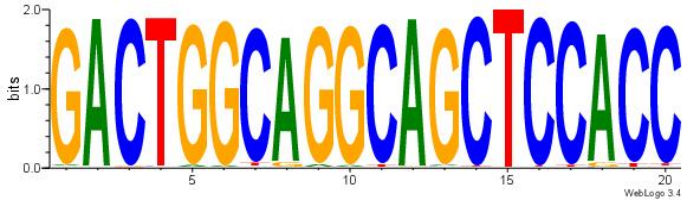

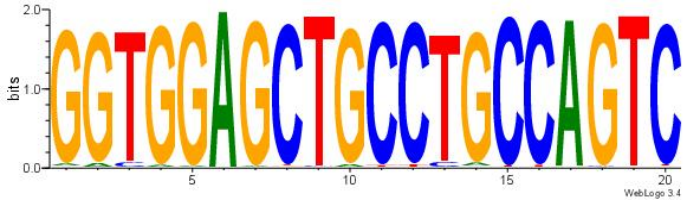

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12989

Alignment:

AGGAGRCMCTCTGCCTGGC
CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

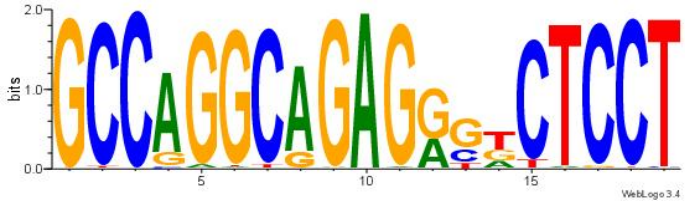

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

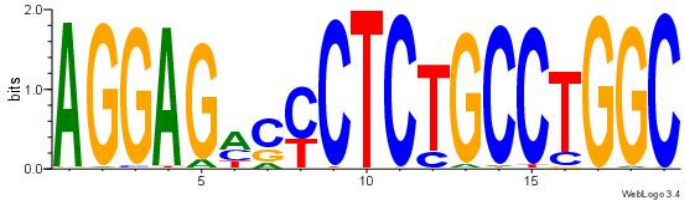

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129942

Alignment:

```
GAAACTGCTTTGTGATGTGT
CGGCTTCATTCTTGAAGTC-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

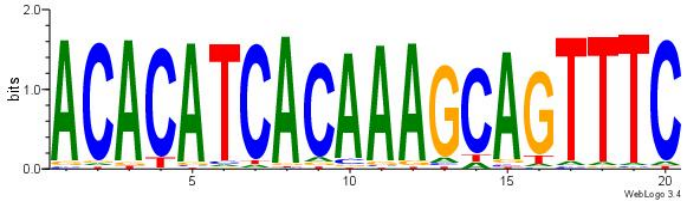

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

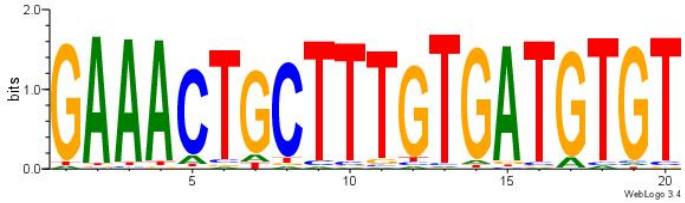

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.130178

Alignment:
TCTCTCTCTCTCTCTCTCTC
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

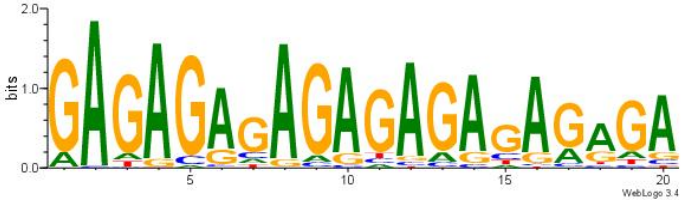

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

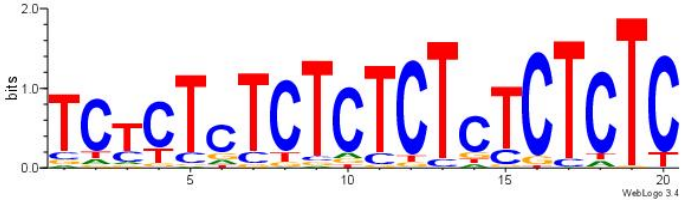

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.131031

Alignment:
AGAGCCAAATCATGARTGAA
-GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

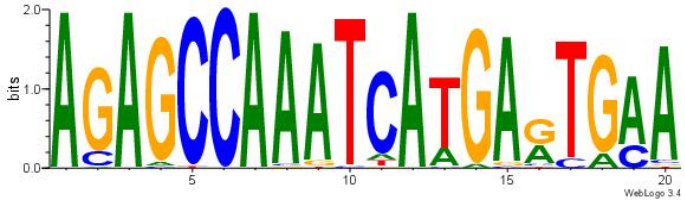

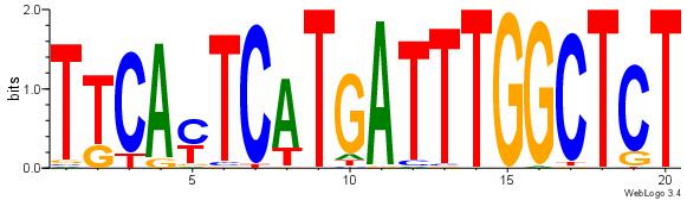

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132432

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
GACTTCAAGAATGAAGCCG-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

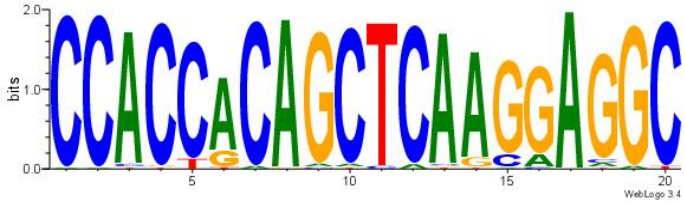

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

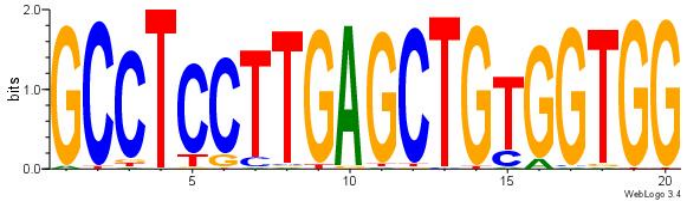

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133302

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
CGGCTTCATTCTTGAAGTC-
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

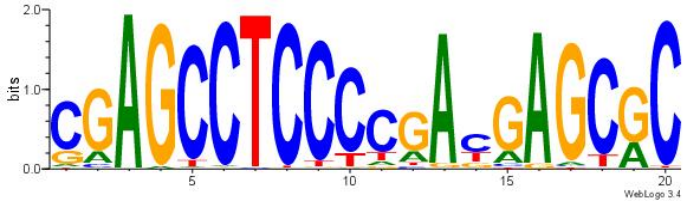

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

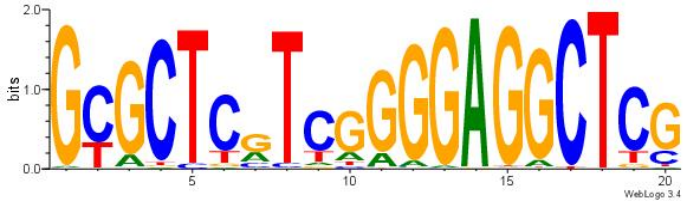

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.133753

Alignment:
CGCCCATCGTCTGGGATGT
CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

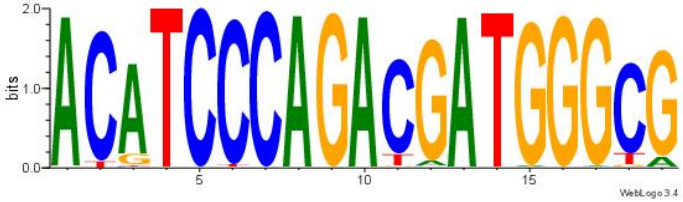

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

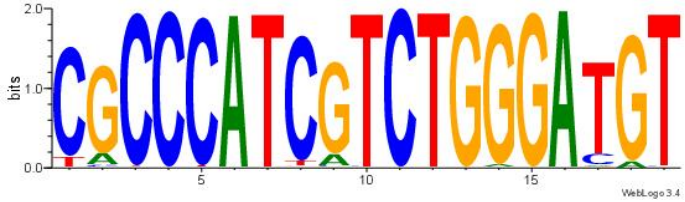

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.134573

Alignment:
GTTAACTGTAAAACAGCCT
GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

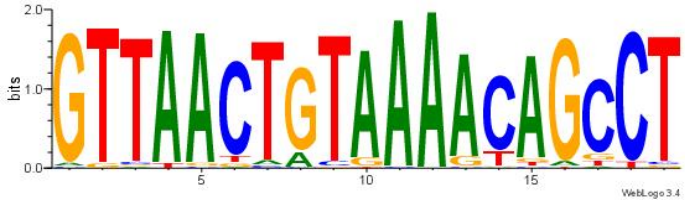

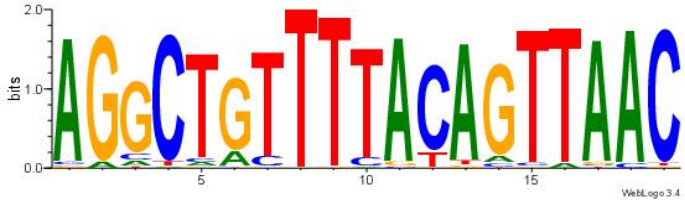

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135124

Alignment:

```
ACTCAGCCCRCCTGCACCC
CGGCTTCATTCTTGAAGTC
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

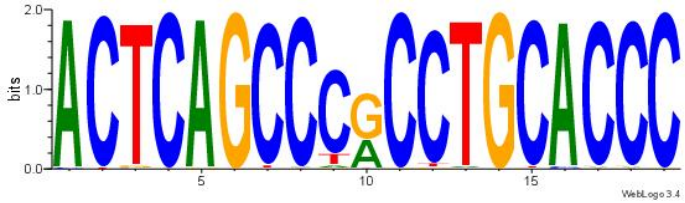

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

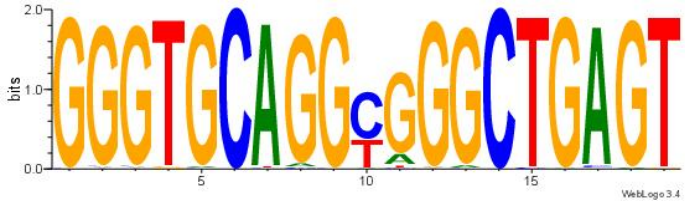

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.135655

Alignment:

```
CACCAGACTCAGGAGCCCAG
-GACTTCAAGAATGAAGCCG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

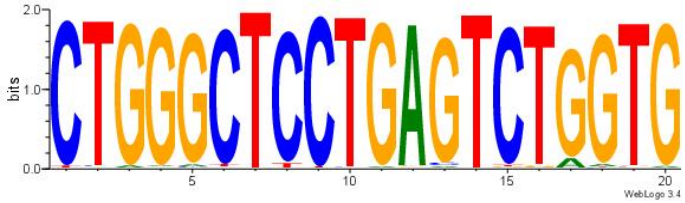

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

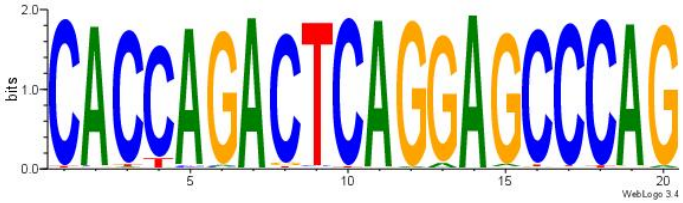

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.136881

Alignment:
ATGATCCAGCAATYCCACTH
-GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

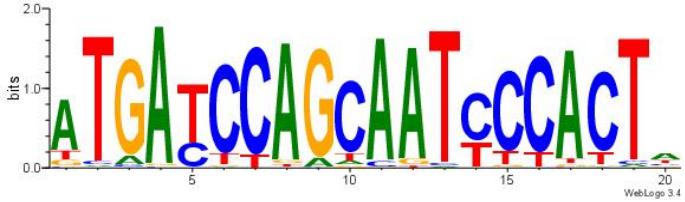

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

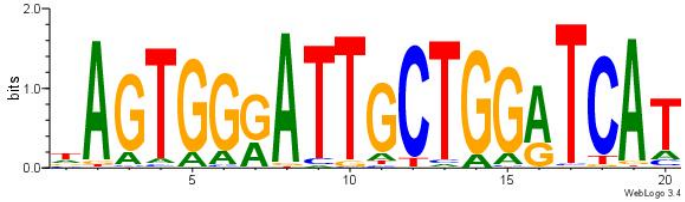

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.138029

Alignment:
GTTATTAATTGGCCTAATTT
CGGCTTCATTCTTGAAGTC-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

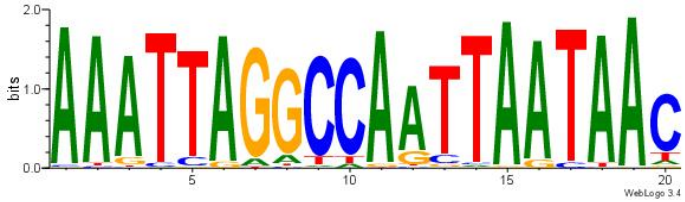

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138726

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CGGCTTCATTCTTGAAGTC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

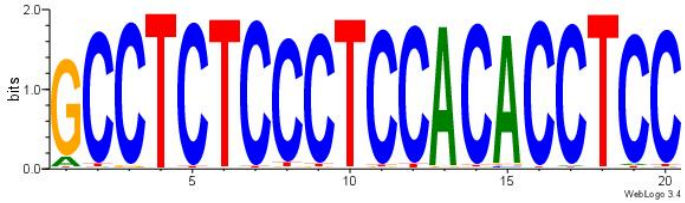

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

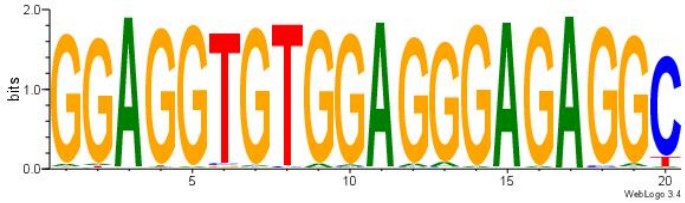

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138859

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-GACTTCAAGAATGAAGCCG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

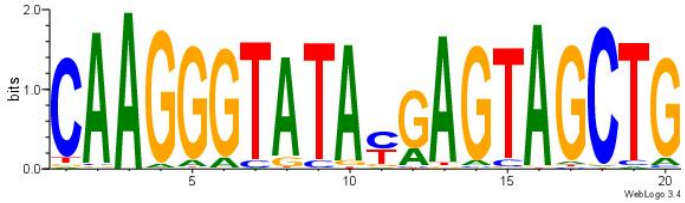

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

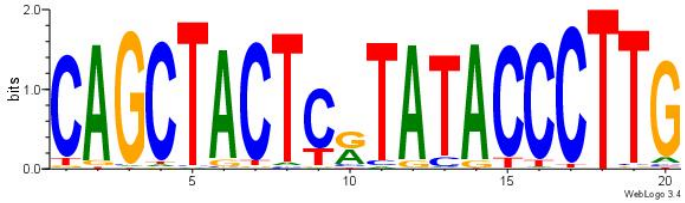

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.139906

Alignment:
TAGATAATAGCTCCAGCTTT
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

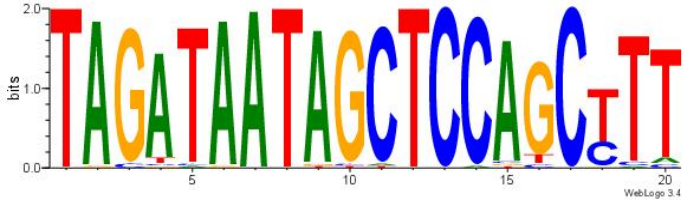

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

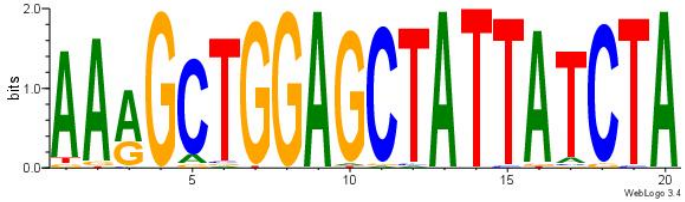

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.14004

Alignment:
GAAGGCAGCTAAGGCCCGGY
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

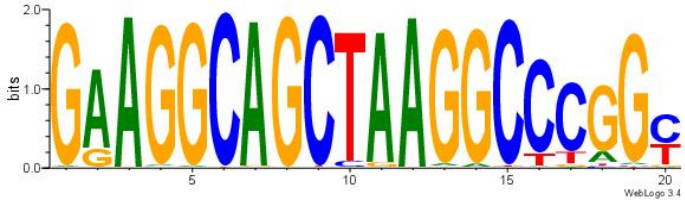

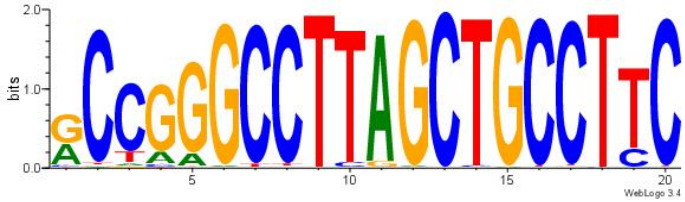

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.141801

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
CGGCTTCATTCTTGAAGTC-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

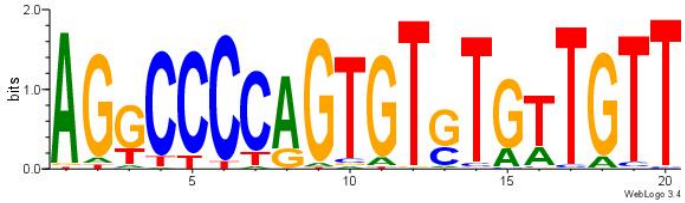

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

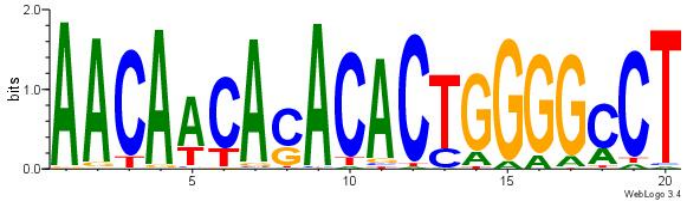

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141933

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
GACTTCAAGAATGAAGCCG-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

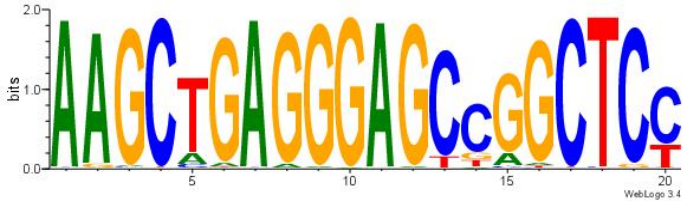

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

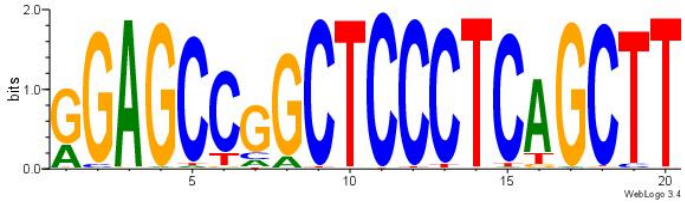

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.141985

Alignment:
AGAGCTCTGGCTGGCATCT
CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

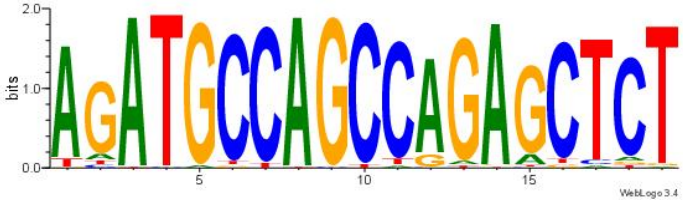

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

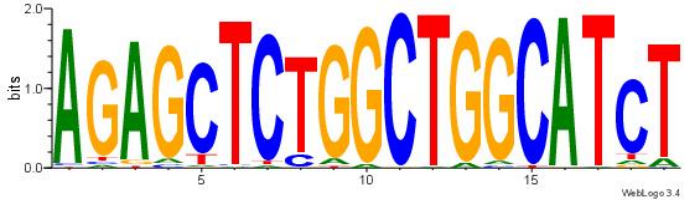

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.142782

Alignment:
CAACATGGATGRARCTGGAG
-GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

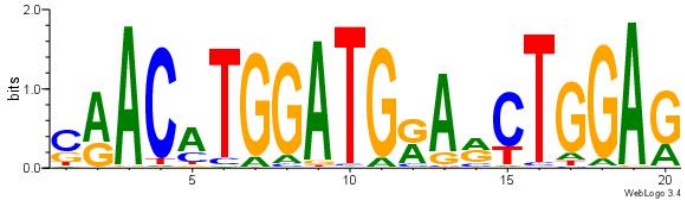

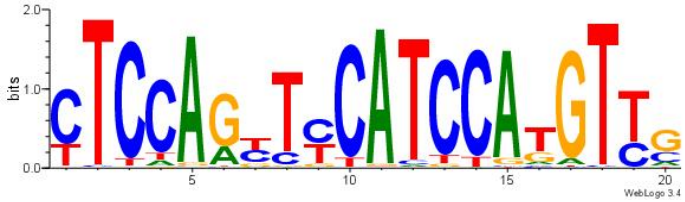

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143223

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-GACTTCAAGAATGAAGCCG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

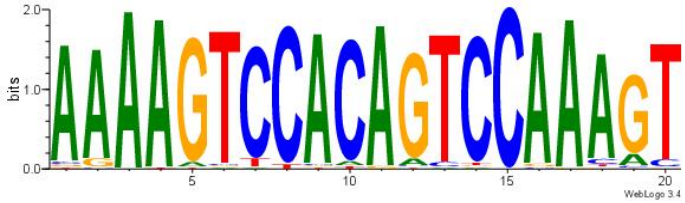

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

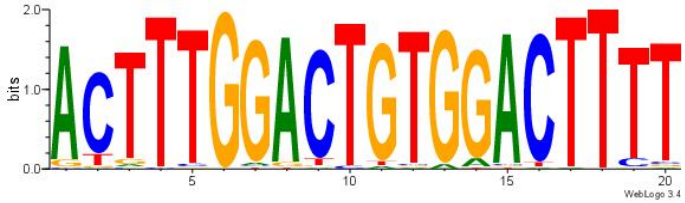

Dataset #: 1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.143595

Alignment:
AGGAGCGCCTCTKCCCGGC
CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

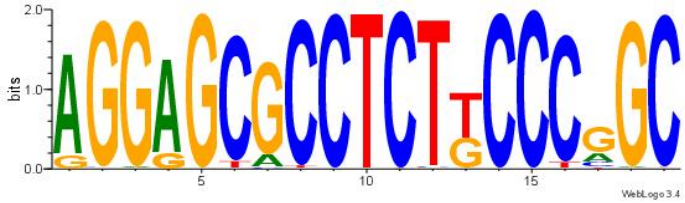

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

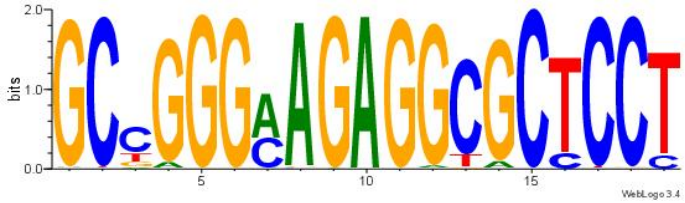

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.144089

Alignment:
ATGGACAYTTRGGTTGHTTC
CGGCTTCATTCTTGAAGTC-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

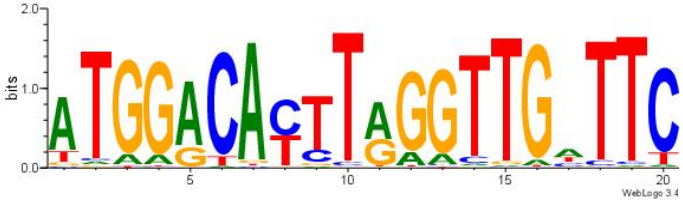

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

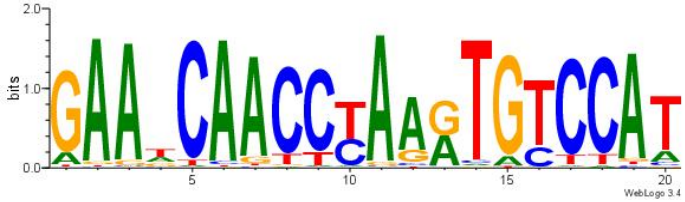

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.144415

Alignment:
AGCTCMKCCTCCTGTCAGAT
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

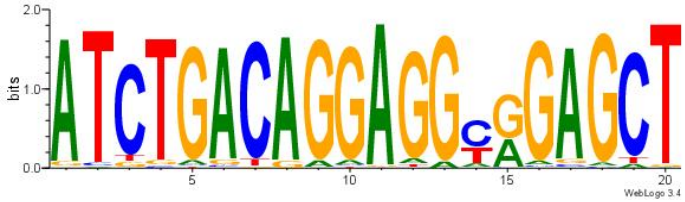

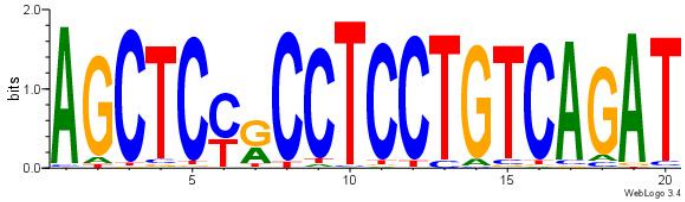

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.14449

Alignment:
CRTGAGCCACYGYRCCYGGC
CGGCTTCATTCTTGAAGTC-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

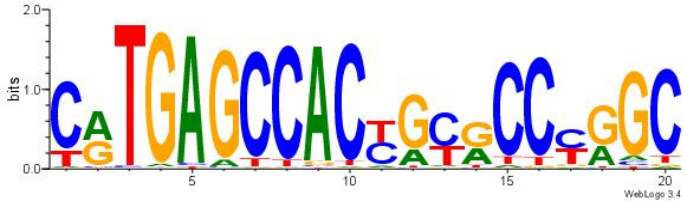

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

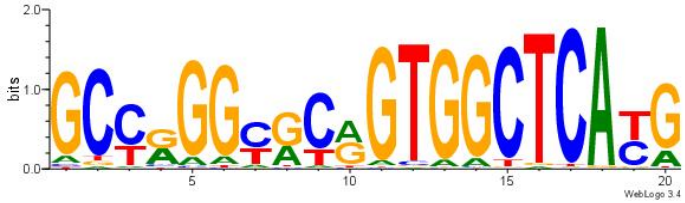

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144628

Alignment:
AGTTGTAATTGGGAGACTT
CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

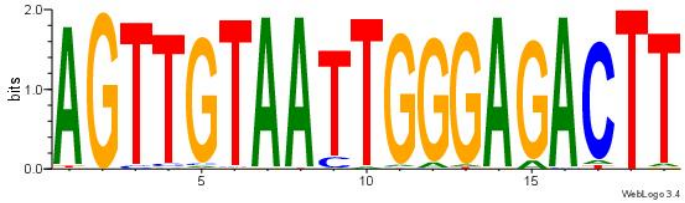

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

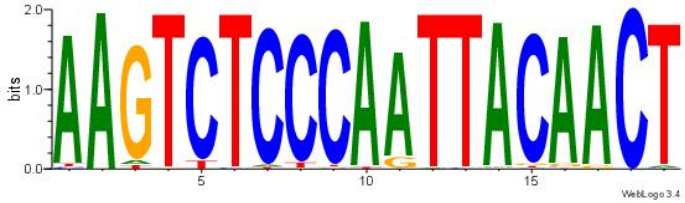

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.144753

Alignment:
GCGMGCGGGAACCGGGGCT
GACTTCAAGAATGAAGCCG

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

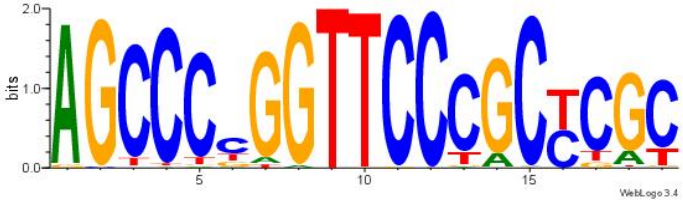

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

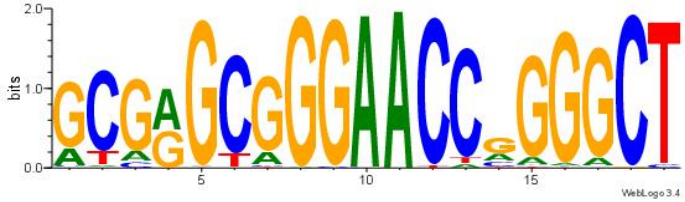

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.145077

Alignment:
TWTACCTATGTAACAAACCT
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

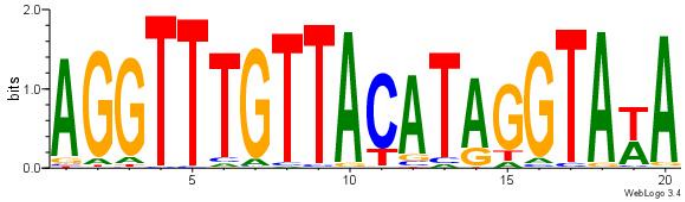

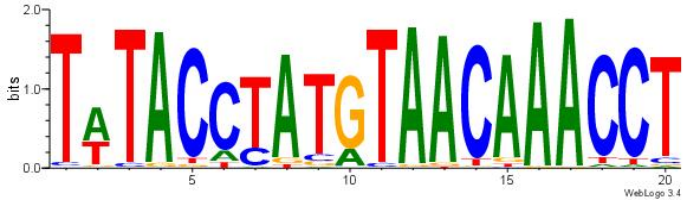

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.145381

Alignment:

```
AGTGACCCGATTTTCCAGGT
-CGGCTTCATTCTTGAAGTC
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

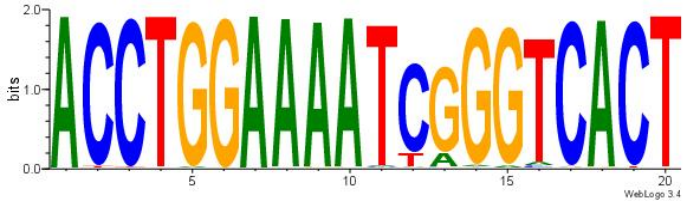

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

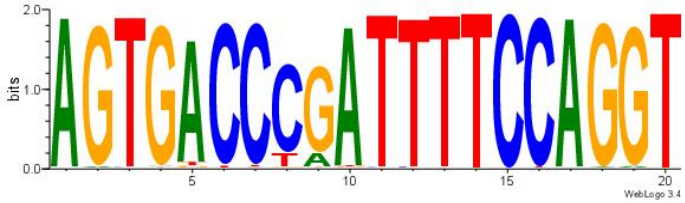

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.145584

Alignment:

```
GGCACTGCTGGGGGACCCAG
GACTTCAAGAATGAAGCCG-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

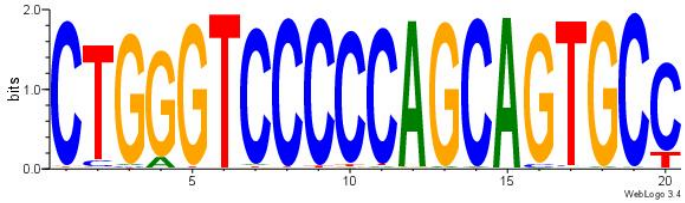

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

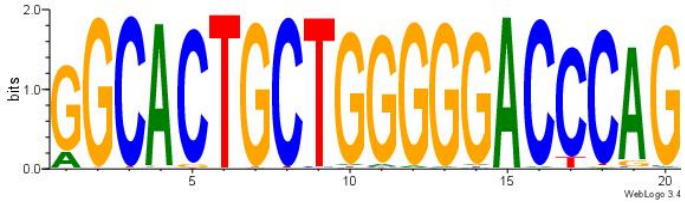

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.145607

Alignment:
TYTGTCMTTTTGTGACTGGC
-CGGCTTCATTCTTGAAGTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

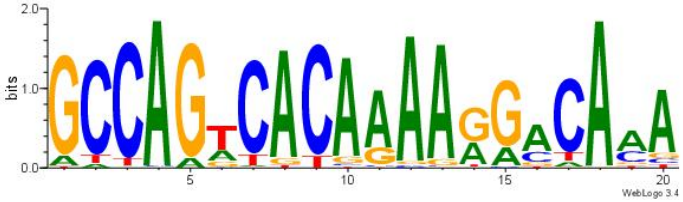

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

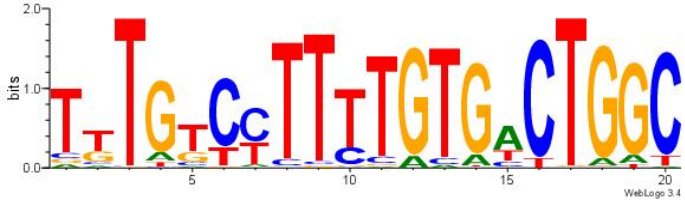

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.146617

Alignment:
AGCCYCTGGYAACCAYYAWT
GACTTCAAGAATGAAGCCG-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

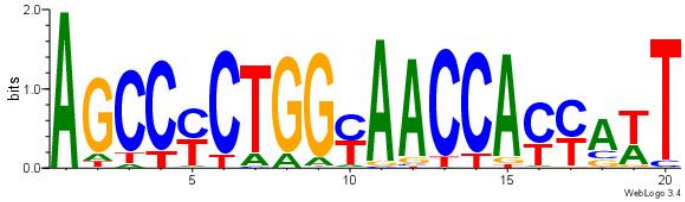

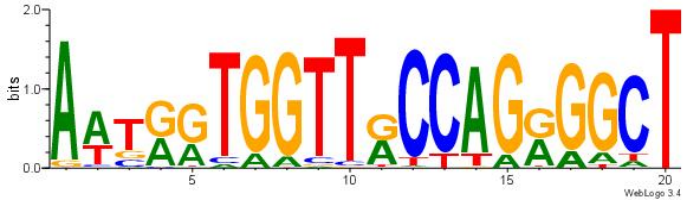

Dataset #: 1 **Motif ID: 212** **Motif name: Motif 212**

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

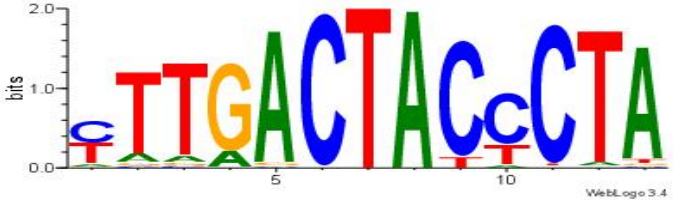

Best Matches for Motif ID 212 (Highest to Lowest)

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0571978

Alignment:

```
CTTGGGTGGTCGATGGGAC
-----TAGGGTAGTCAAR-
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

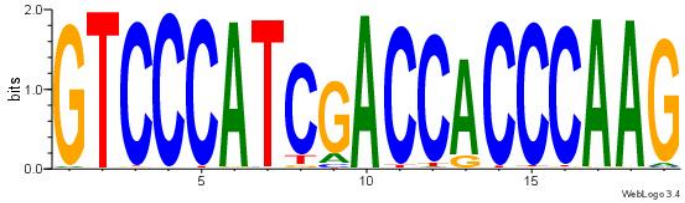

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

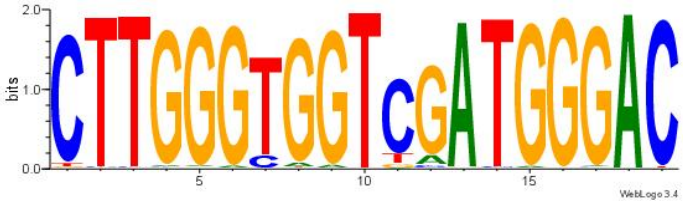

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0722477

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-TAGGGTAGTCAAR------
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

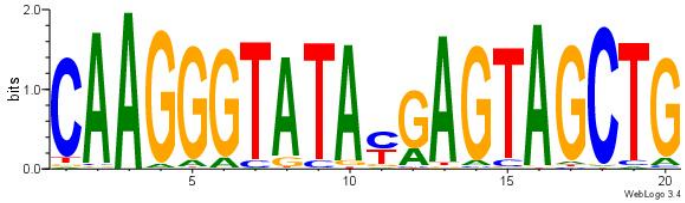

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

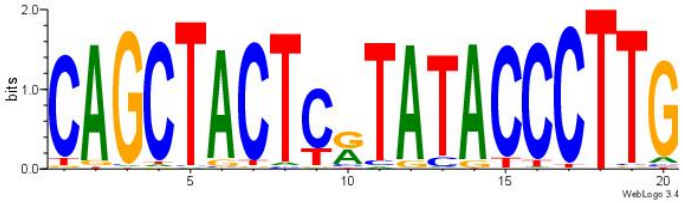

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0728242

Alignment:

```
GGTCAGGATCATCAATAT
--TAGGGTAGTCAAR---
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

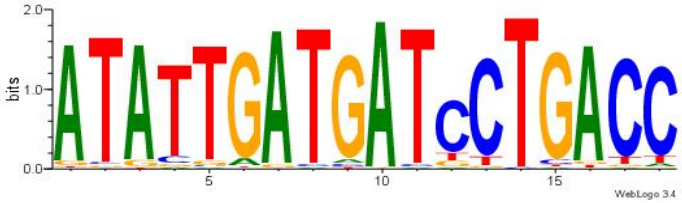

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

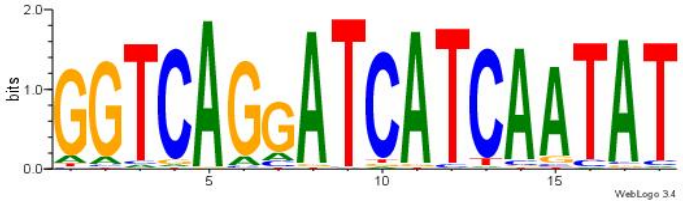

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 13
Similarity score: 0.0736225

Alignment:
GTTATTAATTGGCCTAATTT
---MTTGACTACCCTA----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

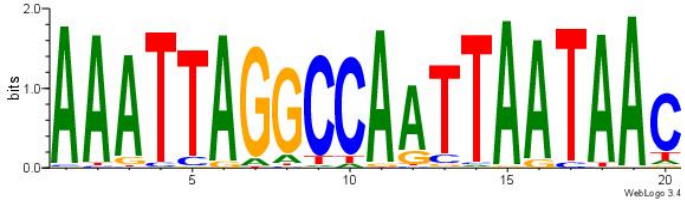

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0737666

Alignment:
GAAATTGACTTCCTCCT
---MTTGACTACCCTA-

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

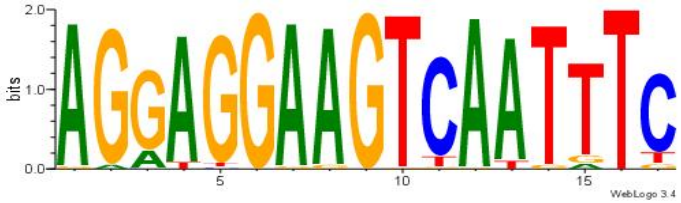

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

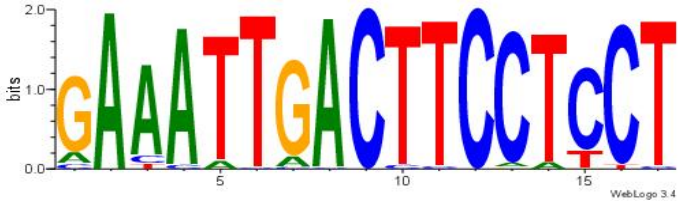

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0769501

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-TAGGGTAGTCAAR-----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

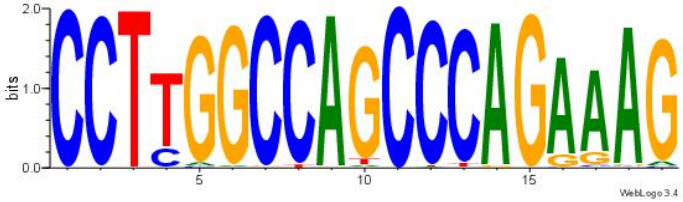

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

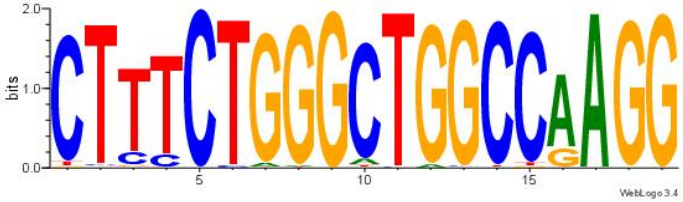

Dataset #:	1
Motif ID:	251
Motif name:	Motif 251
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0774833

Alignment:

```
CGAGACCAGCCTG
MTTGACTACCCTA
```

Original motif Consensus sequence: CAGGCTGGTCTCG

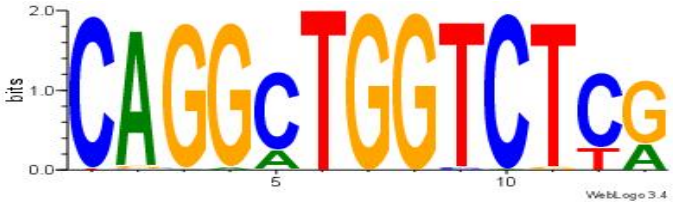

Reverse complement motif Consensus sequence: CGAGACCAGCCTG

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.0802025

Alignment:
TGTATTAGTCMMTT
TAGGGTAGTCAAR-

Original motif Consensus sequence: AAYRGACTAATACA

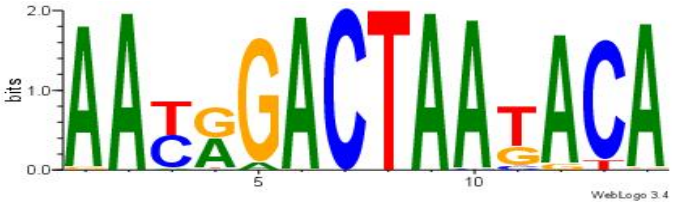

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

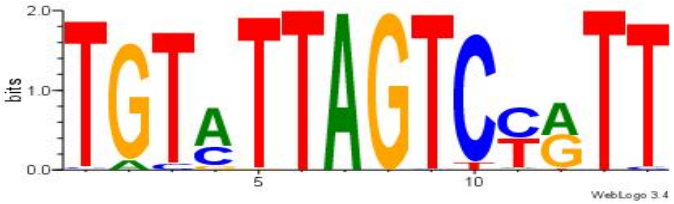

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0820686

Alignment:
TCKMGCCACTGCACTCCAGC
---MTTGACTACCCTA----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

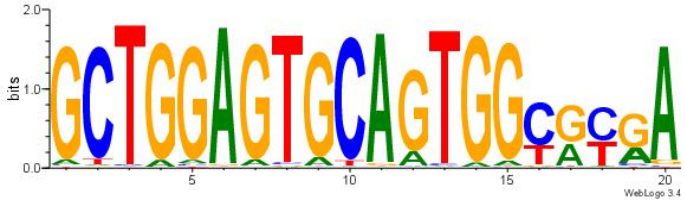

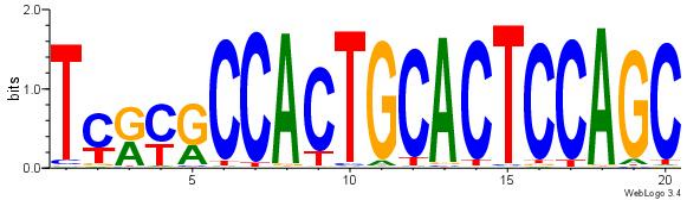

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0828709

Alignment:

```
CAGACTGCCTCCTCAA
---MTTGACTACCCTA
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

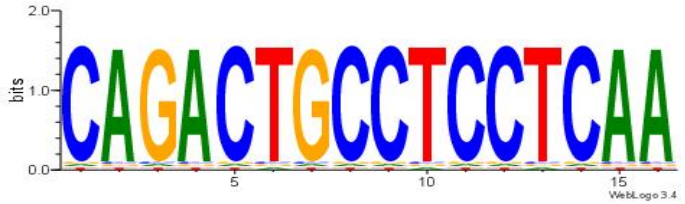

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

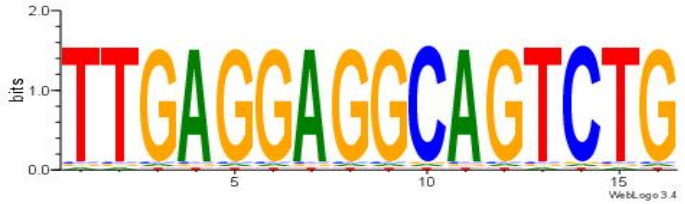

Dataset #:	1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0838413

Alignment:

```
MGAAGGGACTTGCCTTGT
---MTTGACTACCCTA--
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

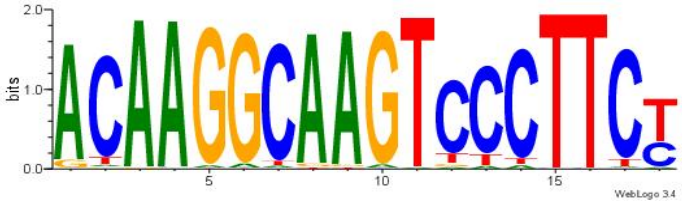

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

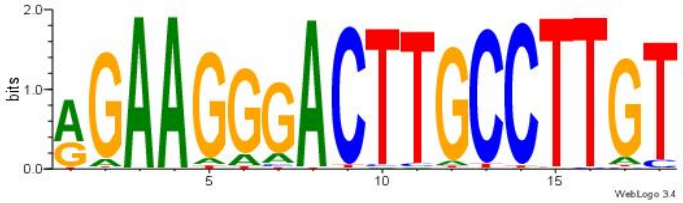

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.0844202

Alignment:
CGAGCCTCCCCGAYGAGCGC
-------MTTGACTACCCTA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

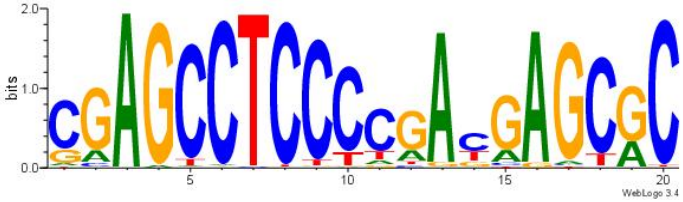

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

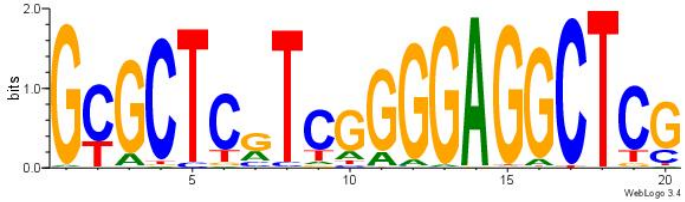

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0870369

Alignment:
GACATGGAGTCAAAGG
-TAGGGTAGTCAAR--

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

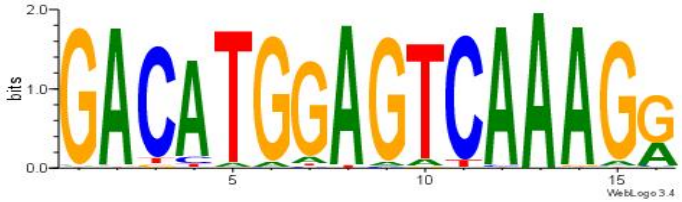

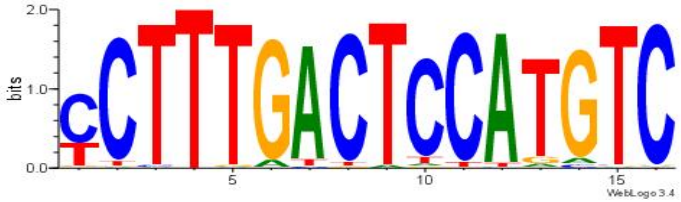

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0871054

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----TAGGGTAGTCAAR--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

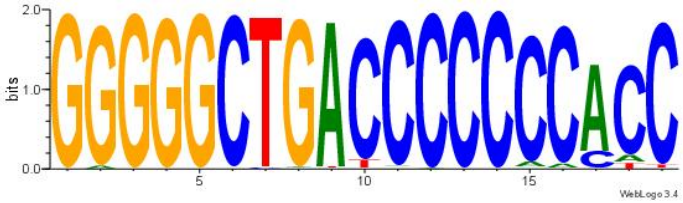

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

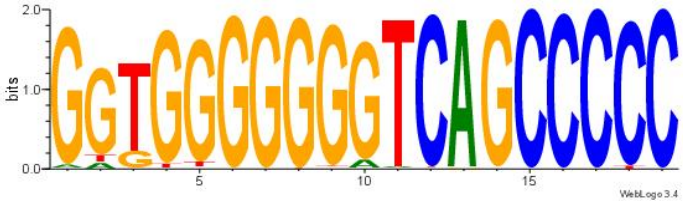

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0889446

Alignment:

```
ATTGGTGTATTTACAATCCC
--TAGGGTAGTCAAR-----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

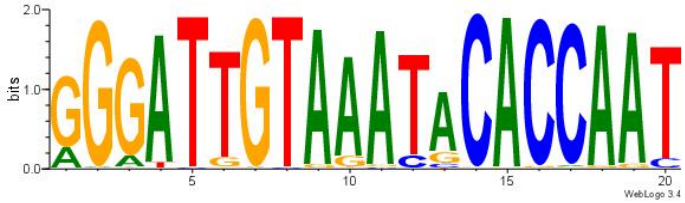

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.08978

Alignment:
VMATTTAKTGAGCACCTACT
------MTTGACTACCCTA-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

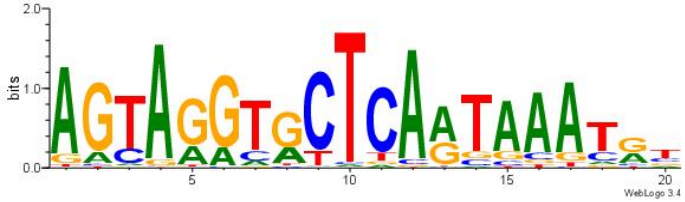

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

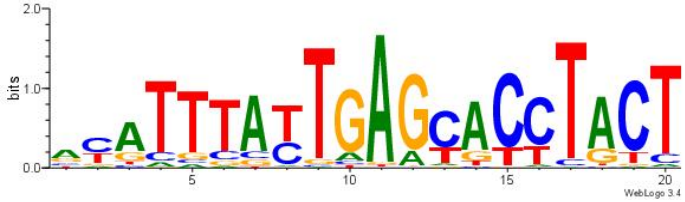

Dataset #: 1
Motif ID: 230
Motif name: Motif 230
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0900088

Alignment:
AGAAAGGCATGTGAAAA
---TAGGGTAGTCAAR-

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

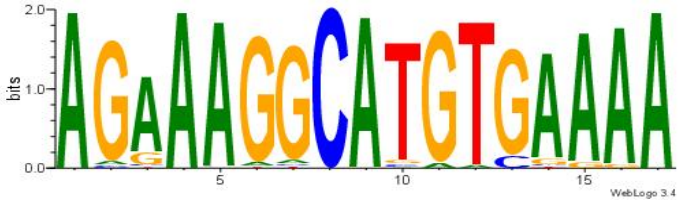

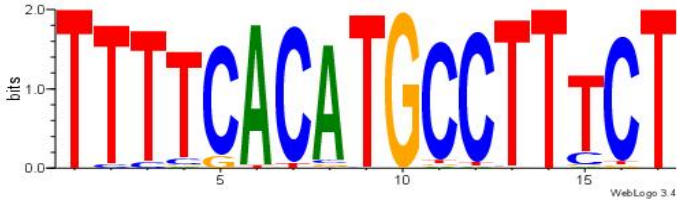

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0900519

Alignment:

```
CATTAGATTCTCATAGGA
---MTTGACTACCCTA--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

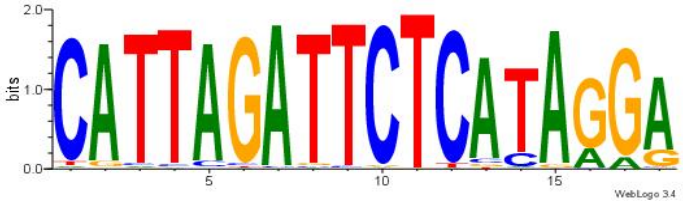

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

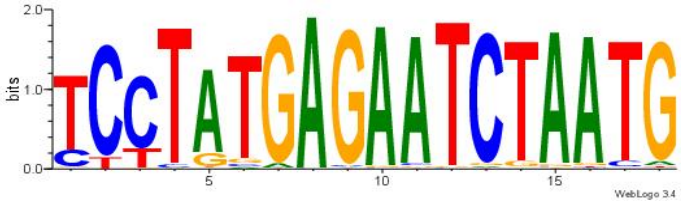

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0905361

Alignment:

```
GTKTMTATMTACCACATTTT
------MTTGACTACCCTA-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

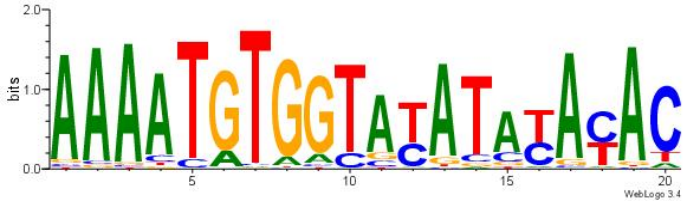

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

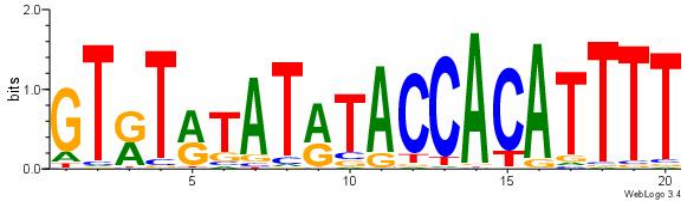

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.0907889

Alignment:
CCCTCACTGCCCGGGG
--MTTGACTACCCTA-

Original motif Consensus sequence: CCCTCACTGCCCGGGG

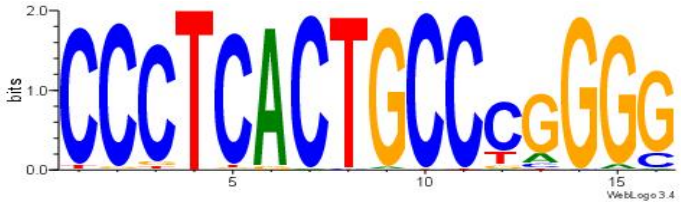

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

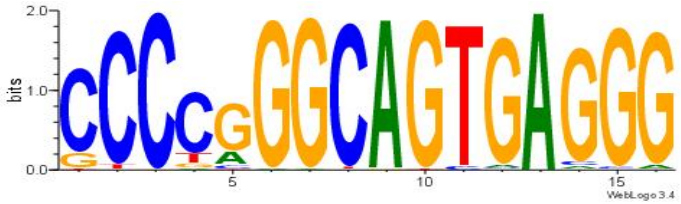

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0907903

Alignment:
CTTGCGCTTCCCRRGTGA
----MTTGACTACCCTA-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

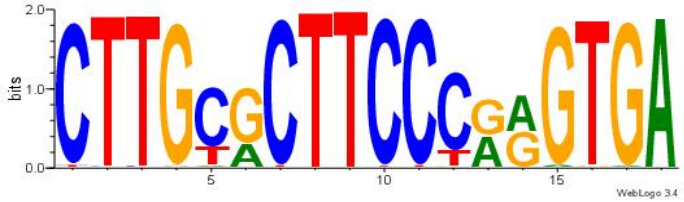

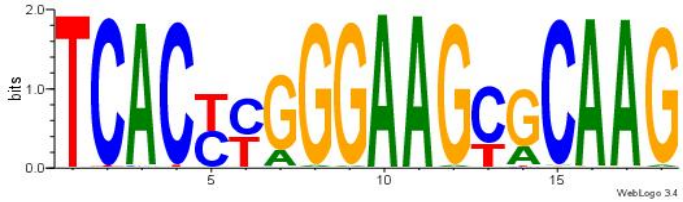

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0908931

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-----MTTGACTACCCTA--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

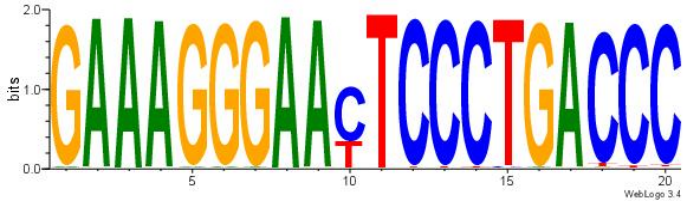

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

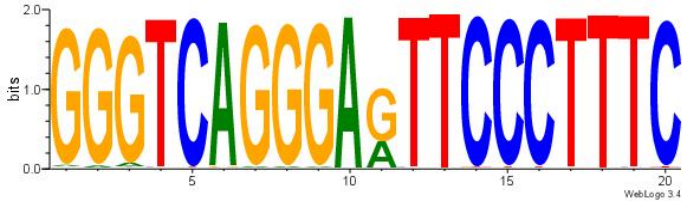

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0913384

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
TAGGGTAGTCAAR-------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

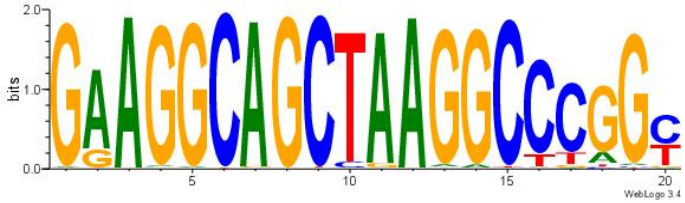

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

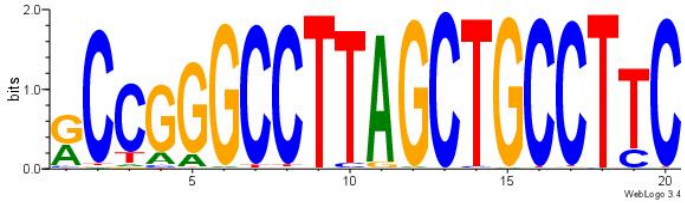

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.0918136

Alignment:
ACCCAATWTGTAGTCTTTTA
--TAGGGTAGTCAAR-----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

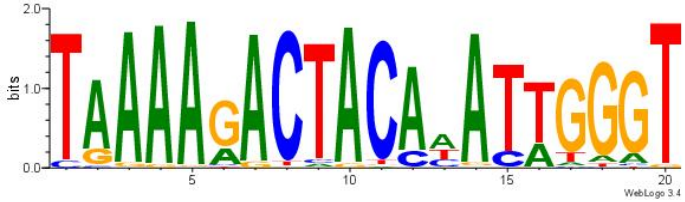

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

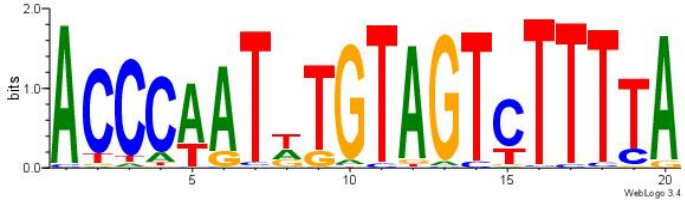

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.092677

Alignment:
ATGGAATAYTATTCAGCCAT
-------MTTGACTACCCTA

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

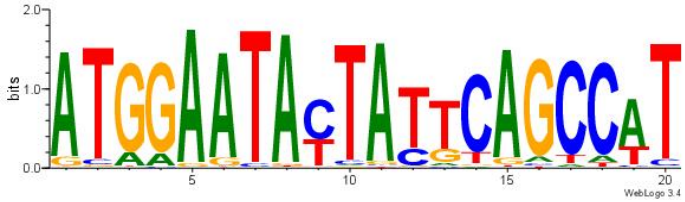

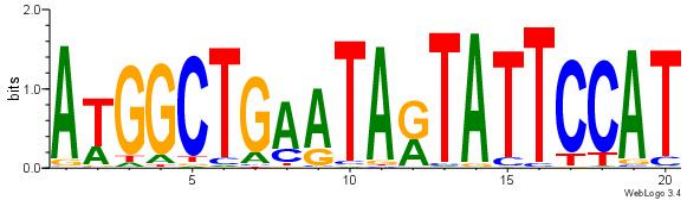

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0936035

Alignment:

```
TCAATGGGCTCCCAAATG
---MTTGACTACCCTA--
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

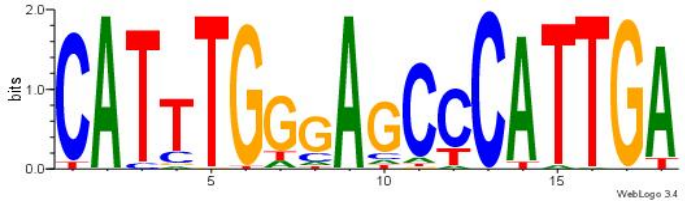

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

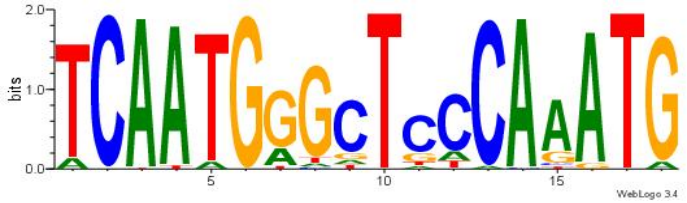

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0938157

Alignment:

```
TAAGTGGGAGCTAARC
--TAGGGTAGTCAAR-
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

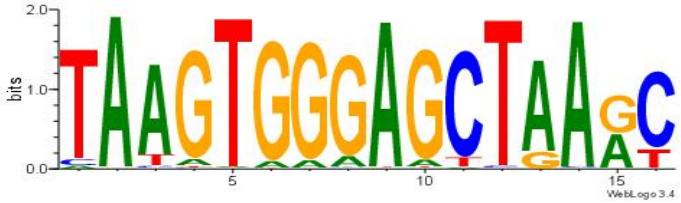

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

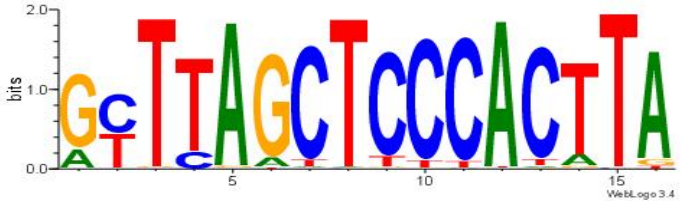

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0942671

Alignment:
AAAGAGAGTCAGCGAAG
---TAGGGTAGTCAAR-

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

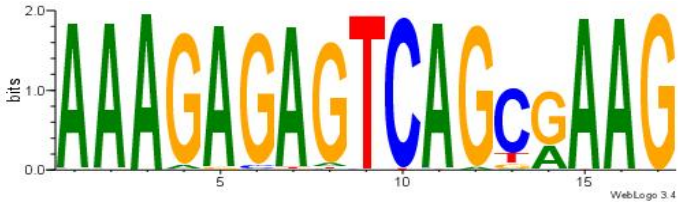

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

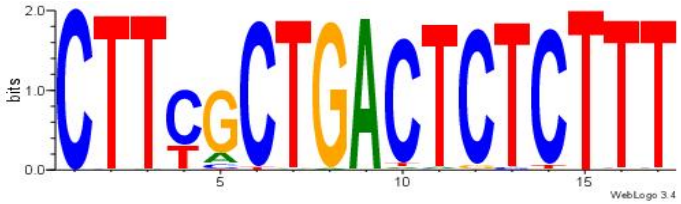

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0950081

Alignment:
AGACCAGCCTGGCCAAC
----TAGGGTAGTCAAR

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

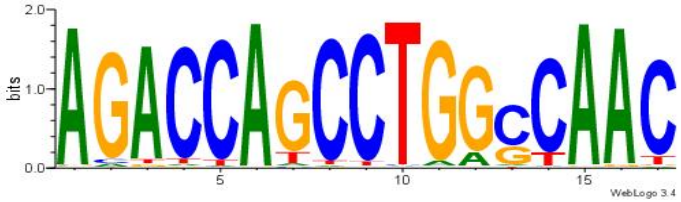

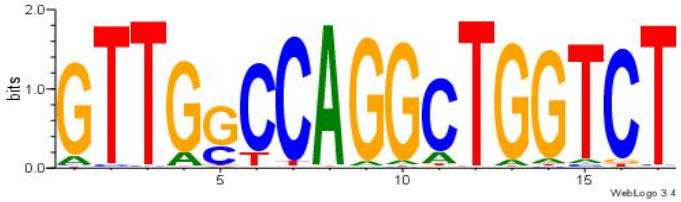

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.095578

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------TAGGGTAGTCAAR-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

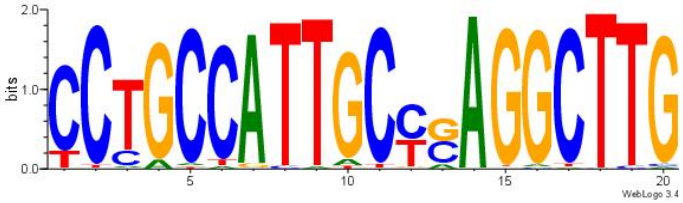

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

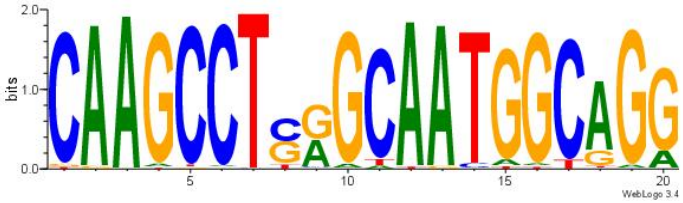

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0961054

Alignment:

```
TACCTGAGACTGGGTAATTT
--TAGGGTAGTCAAR-----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

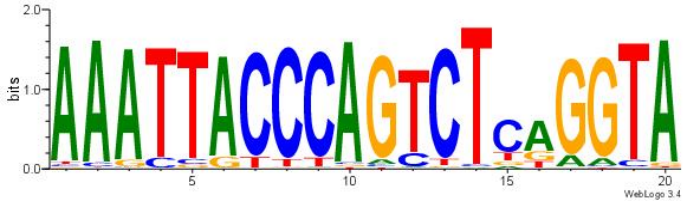

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

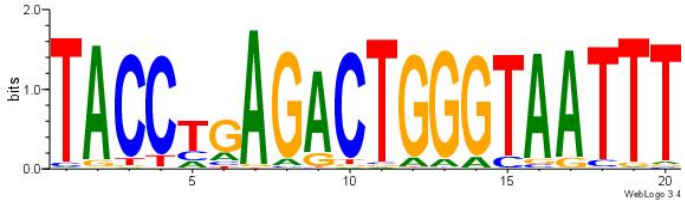

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0970363

Alignment:
ATCRCTTGAGSYCAGGAGKT
---MTTGACTACCCTA----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

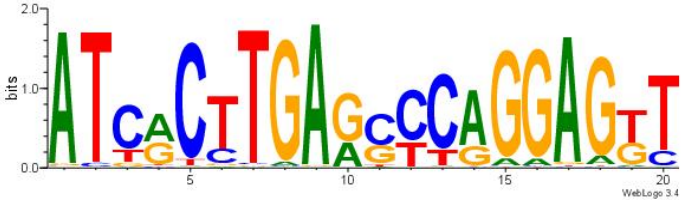

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

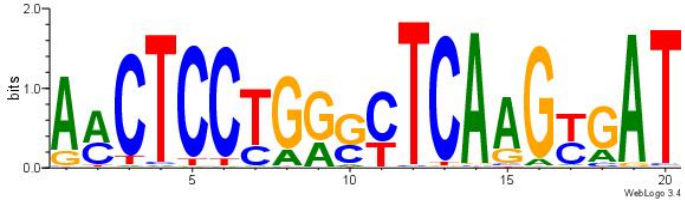

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0973244

Alignment:
ACTCCCTAGTGAGATGAACC
-TAGGGTAGTCAAR------

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

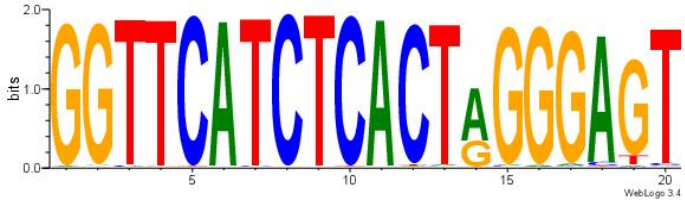

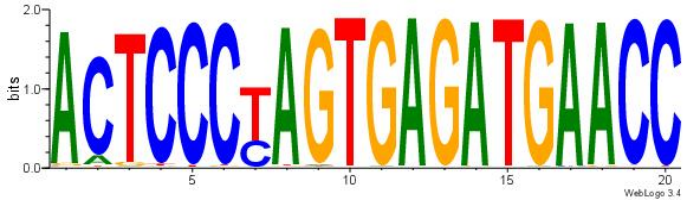

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0980218

Alignment:

```
CCCATGCAAGTCYRAAATCC
--TAGGGTAGTCAAR-----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

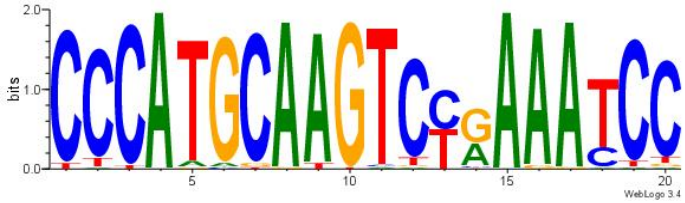

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

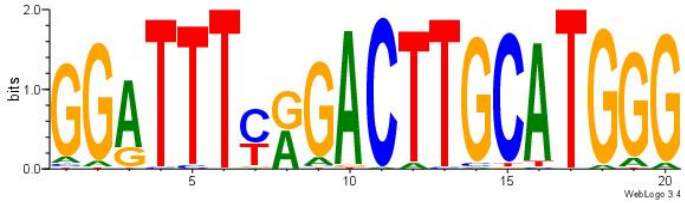

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0982794

Alignment:

```
AGAGCCAAATCATGARTGAA
-TAGGGTAGTCAAR------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

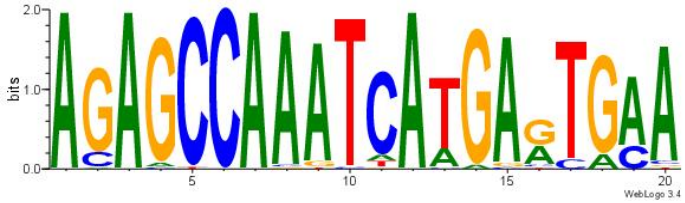

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

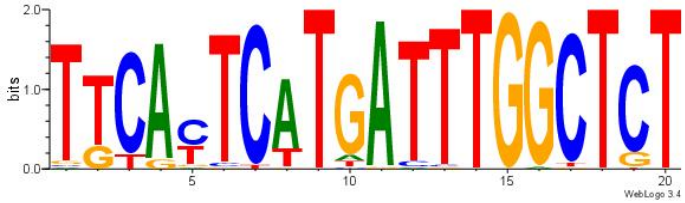

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0984522

Alignment:
GCCAATTTCTCCCATTTGGA
---MTTGACTACCCTA----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

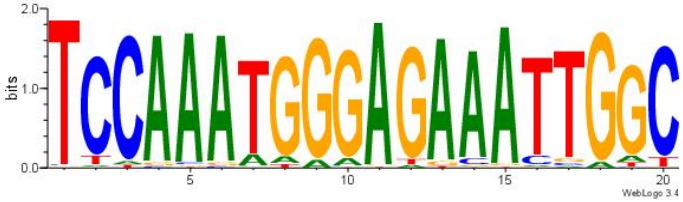

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

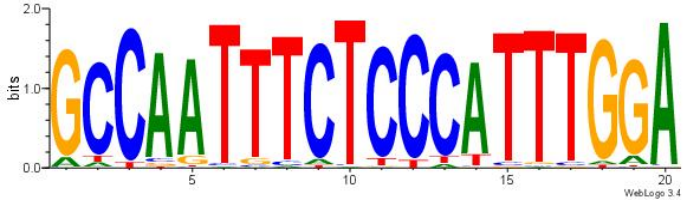

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0986587

Alignment:
CCCYAATACTGCGCTTTTC
---MTTGACTACCCTA---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

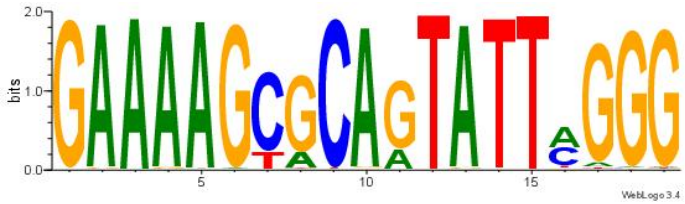

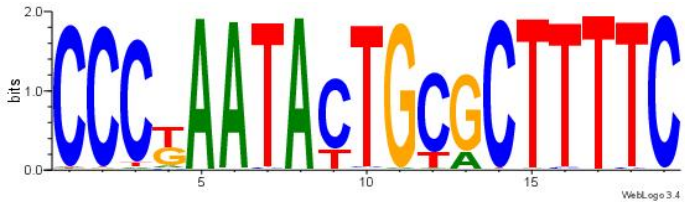

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0995523

Alignment:

```
GCTGGAGTGCAGTG
-MTTGACTACCCTA
```

Original motif Consensus sequence: CACTGCACTCCAGC

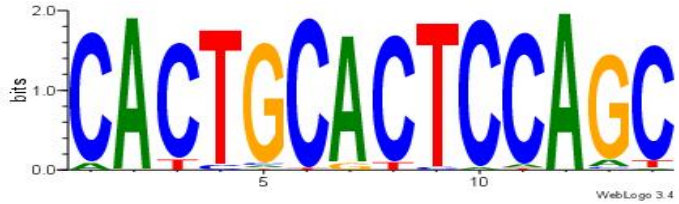

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

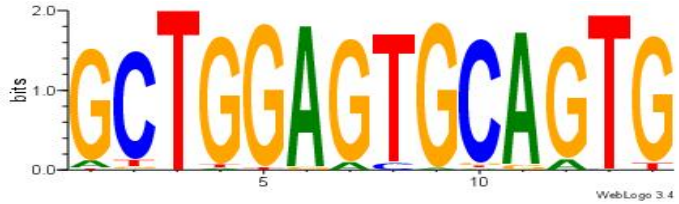

Dataset #:	1
Motif ID:	312

Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.100294

Alignment:

```
AGGACTGAGGGTGCCYRGGG
------TAGGGTAGTCAAR-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

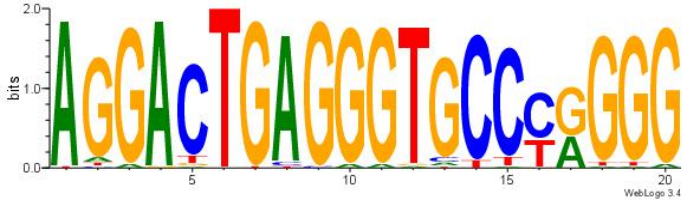

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

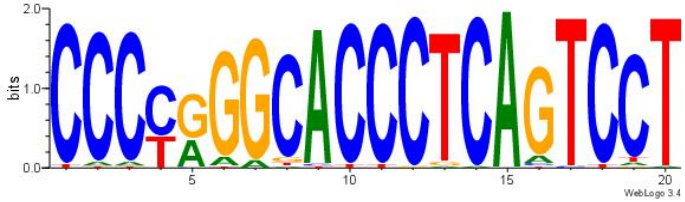

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.1003

Alignment:
AAGAGGTTTAATTGRCTCA
-MTTGACTACCCTA-----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

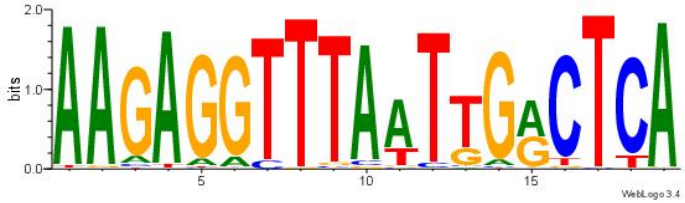

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

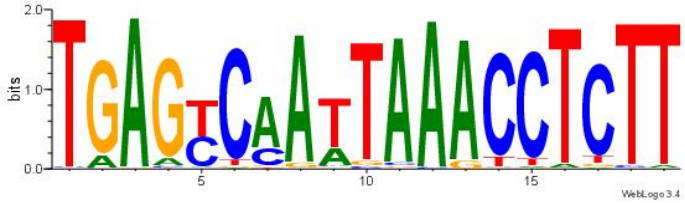

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.100334

Alignment:
CTCACAGAGTTAAA
-TAGGGTAGTCAAR

Original motif Consensus sequence: CTCACAGAGTTAAA

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

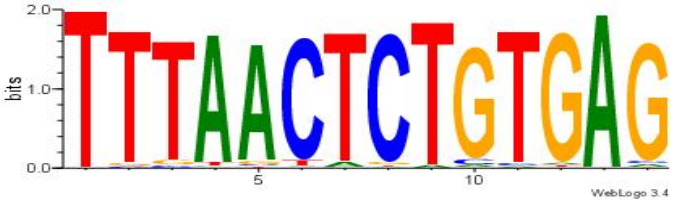

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.100347

Alignment:

```
GGCAATGCCTCGCCCTGCTT
---MTTGACTACCCTA----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

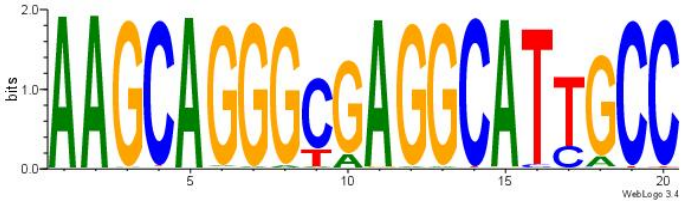

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

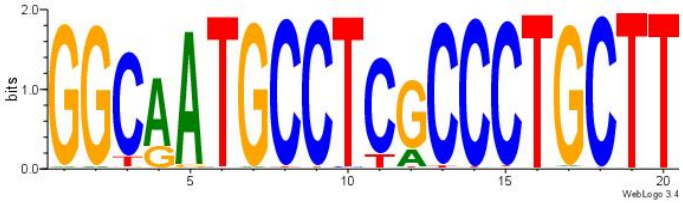

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.101433

Alignment:

```
CTCCAGKTMCATCCATGTTG
----TAGGGTAGTCAAR---
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

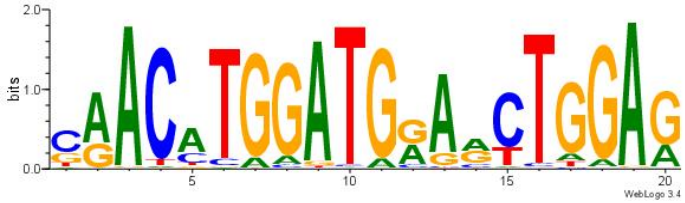

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

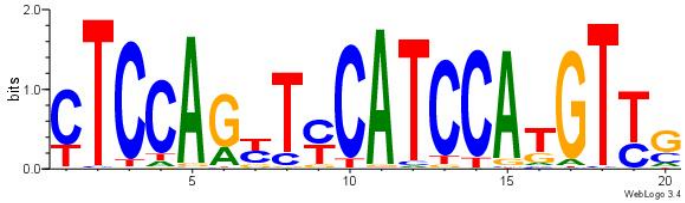

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.101644

Alignment:
CTGGGCAACAAGAG
MTTGACTACCCTA-

Original motif Consensus sequence: CTCTTGTTGCCCAG

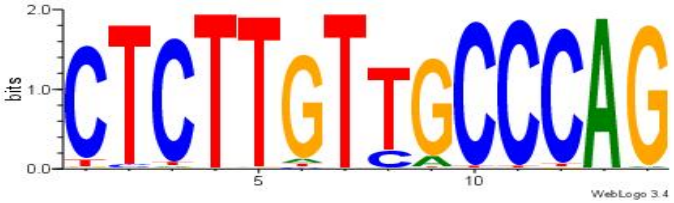

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

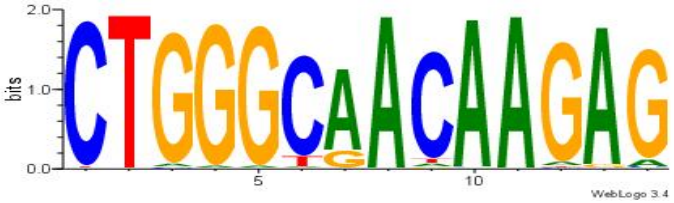

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.101676

Alignment:
AATCAACCCTGGYRATCAAT
-------TAGGGTAGTCAAR

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

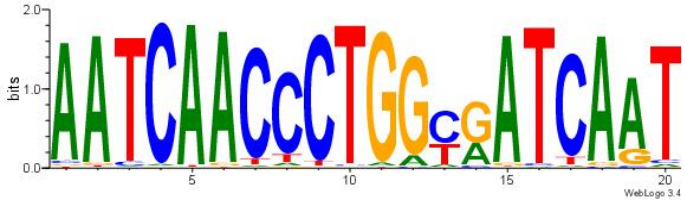

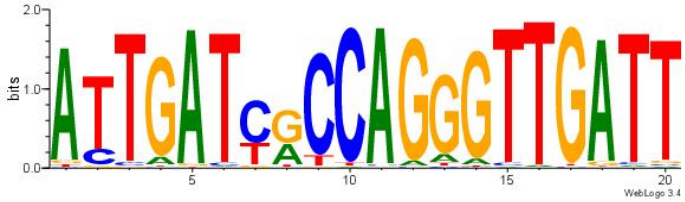

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.101866

Alignment:

```
CTTGCCCAAGGTCACACAGC
MTTGACTACCCTA-------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

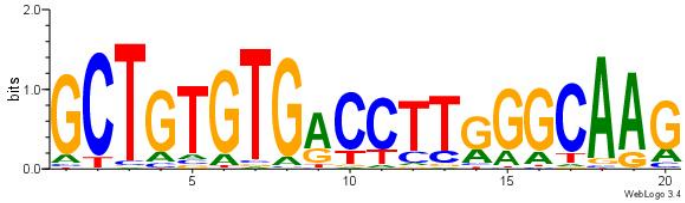

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

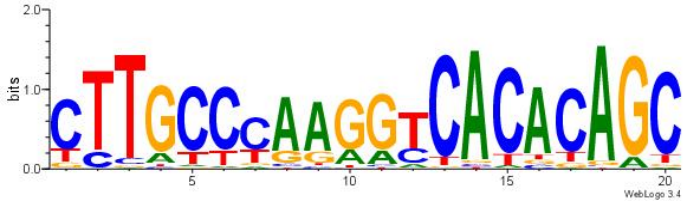

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.101891

Alignment:

```
CMCAGTTCACAATAGGGTT
-MTTGACTACCCTA-----
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

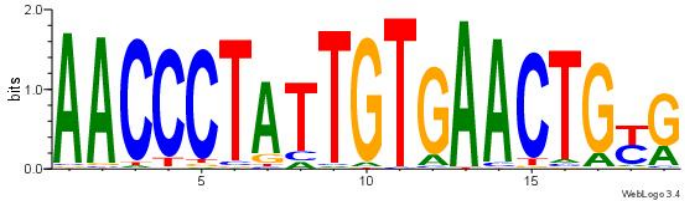

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

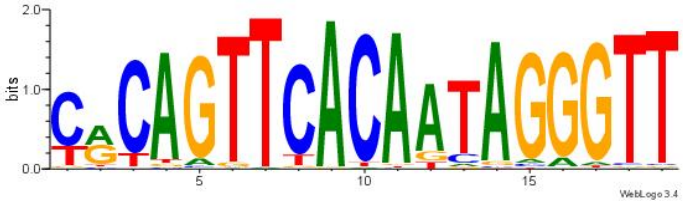

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.101893

Alignment:
ACATGCTACAACAT
MTTGACTACCCTA-

Original motif Consensus sequence: ACATGCTACAACAT

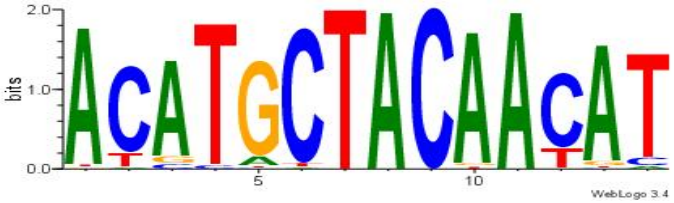

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

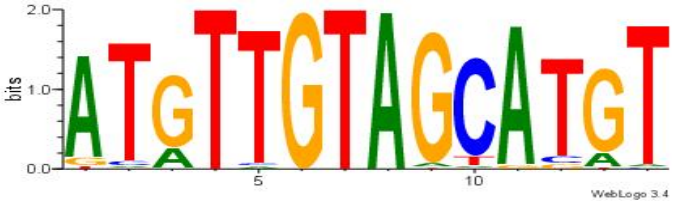

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.102364

Alignment:
TCTGGAGTGGACCTCCAGCA
--TAGGGTAGTCAAR-----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

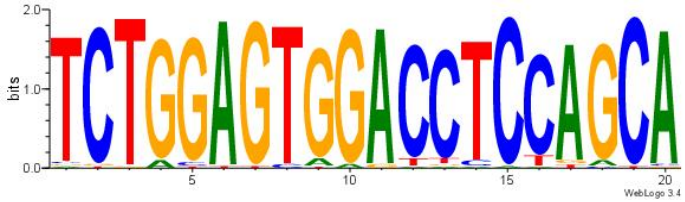

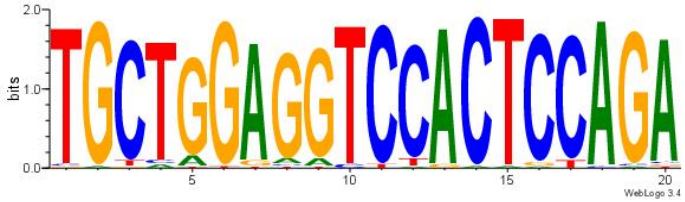

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.102387

Alignment:

```
RCAGTGTACACTGY
MTTGACTACCCTA-
```

Original motif Consensus sequence: RCAGTGTACACTGY

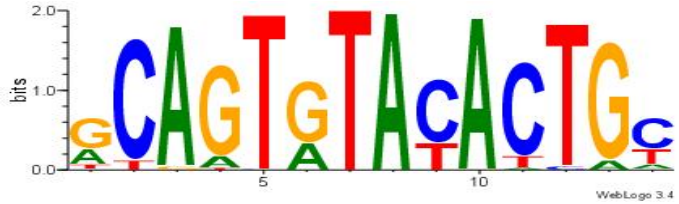

Reverse complement motif Consensus sequence: KCAGTGTACACTG

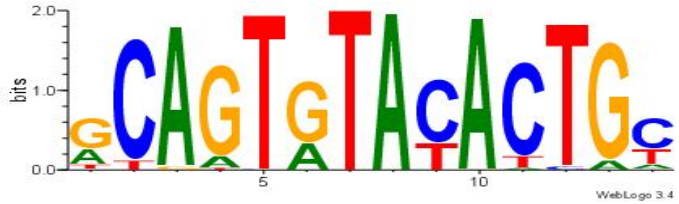

Dataset #: 1 Motif ID: 213 Motif name: Motif 213

Original motif Consensus sequence: AAYRGACTAATACA

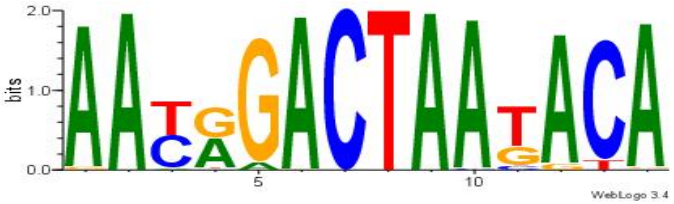

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

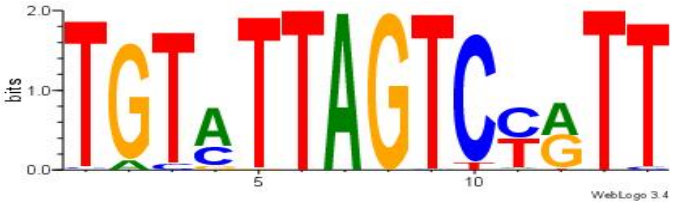

Best Matches for Motif ID 213 (Highest to Lowest)

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0676805

Alignment:

```
CTCAGTGTTAATCTCCTGTC
---TGTATTAGTCMMTT---
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

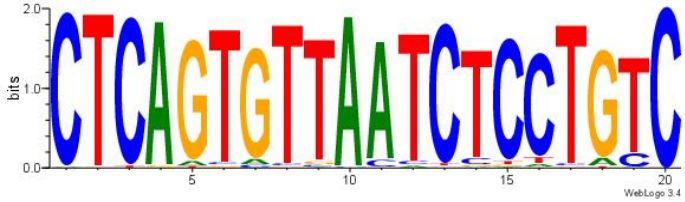

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

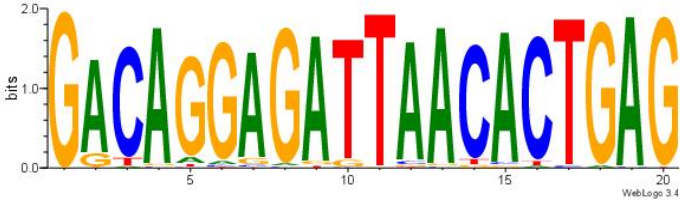

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0742206

Alignment:

```
CTGGGCRACAGAGYRAGACY
------AAYRGACTAATACA
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

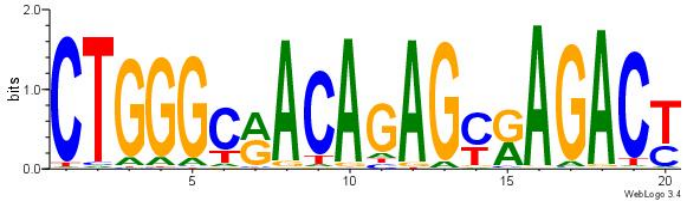

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

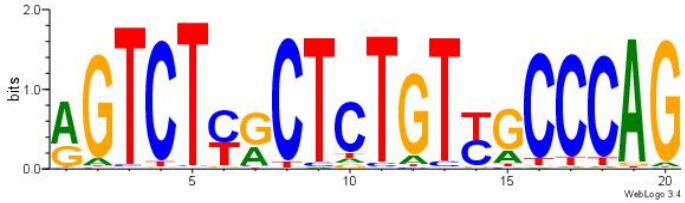

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0749712

Alignment:
AATGAGTTAAGACTTTG
AAYRGACTAATACA---

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

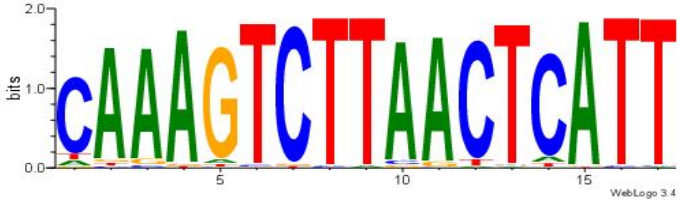

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0750949

Alignment:
AATTAAAAGACACAGACTG
----AAYRGACTAATACA-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

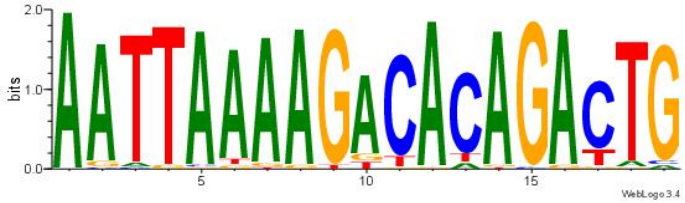

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

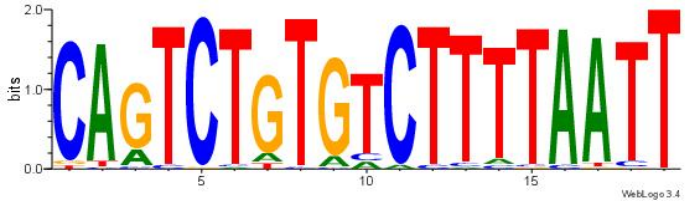

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0758743

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
------TGTATTAGTCMMTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

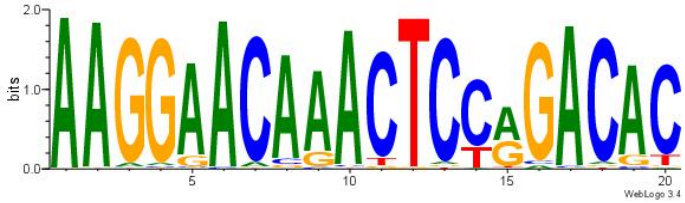

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

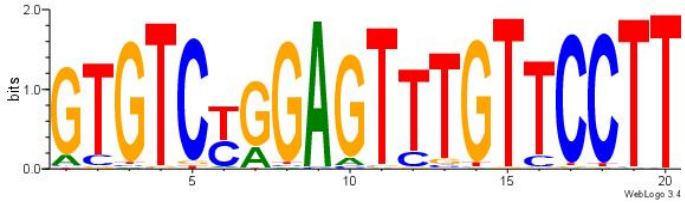

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0765173

Alignment:

```
TAATTTTATGTGTCAACTTG
----TGTATTAGTCMMTT--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

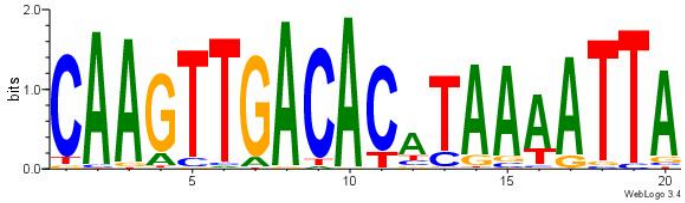

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

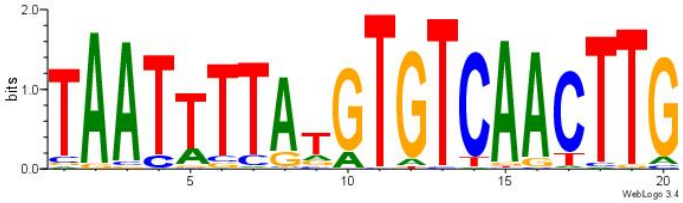

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.0802969

Alignment:
CATTTGGGAGCCCATTGA
--TGTATTAGTCMMTT--

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

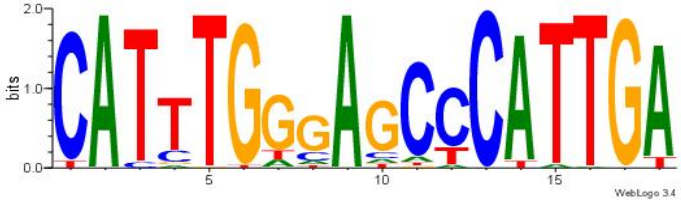

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

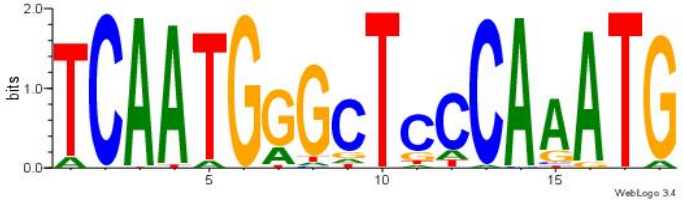

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0816402

Alignment:
GCCGTTTKTTAAGCCCGTY
-TGTATTAGTCMMTT----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

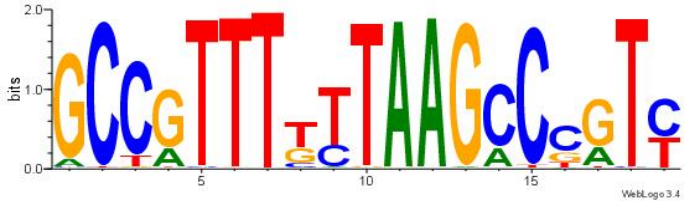

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

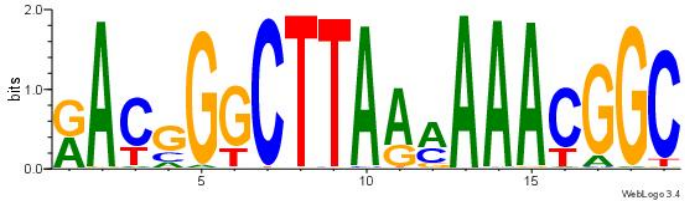

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0834402

Alignment:

```
AGGAGGAAGTCAATTTC
-TGTATTAGTCMMTT--
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

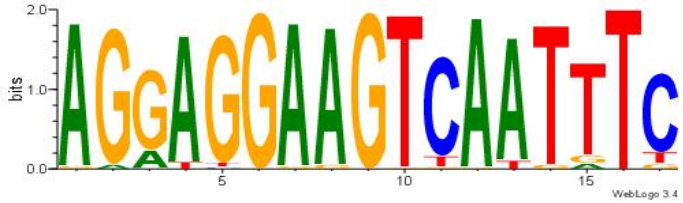

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

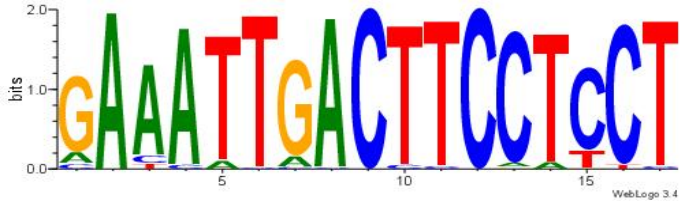

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0840189

Alignment:

```
ACACACAYACACACACACA
-----AAYRGACTAATACA
```

Original motif Consensus sequence: ACACACAYACACACACACA

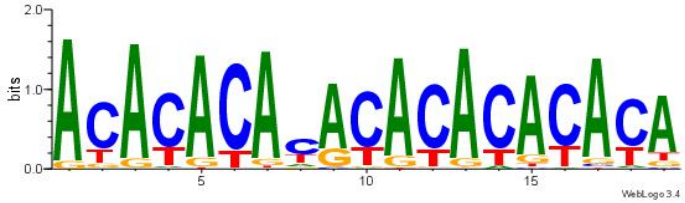

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

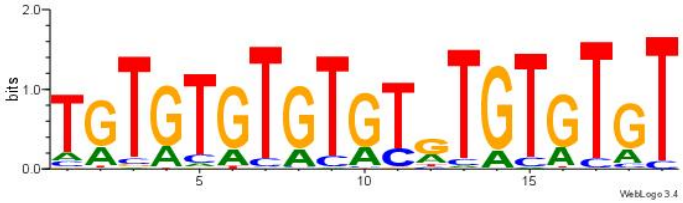

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.0852616

Alignment:
AAAGAGAGTCAGCGAAG
-AAYRGACTAATACA--

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

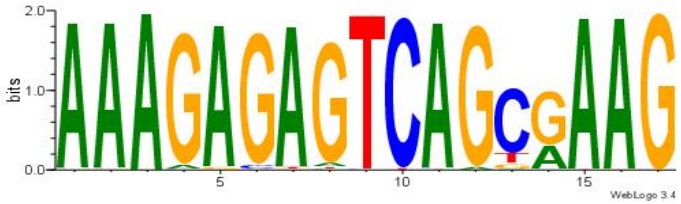

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

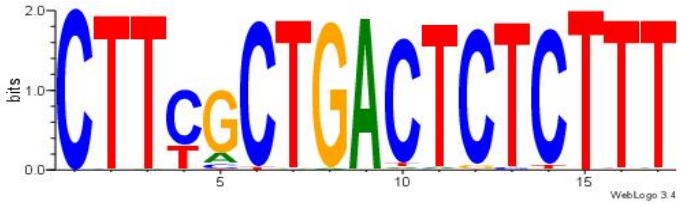

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.0859044

Alignment:
CAAAGGCATAAGAATGAT
-AAYRGACTAATACA---

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

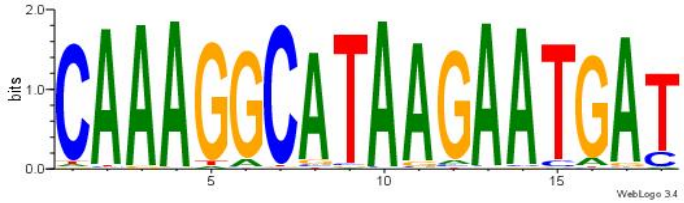

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

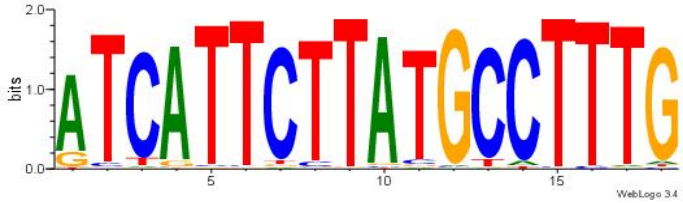

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0864671

Alignment:

```
CAGCTACTCKTATACCCTTG
-----TGTATTAGTCMMTT-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

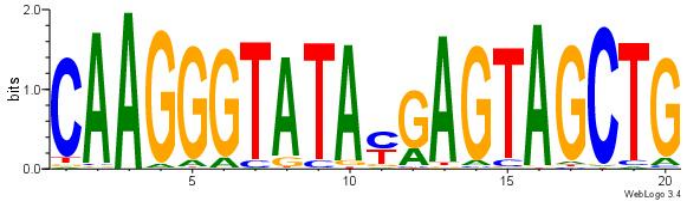

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

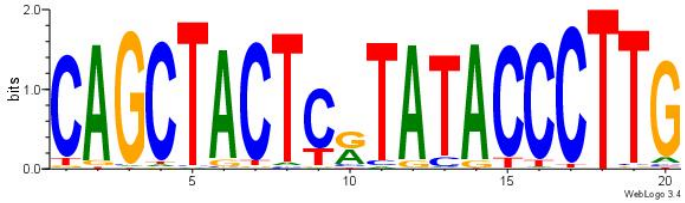

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0893841

Alignment:

```
AGGTATTTCTCCCACC
-TGTATTAGTCMMTT-
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

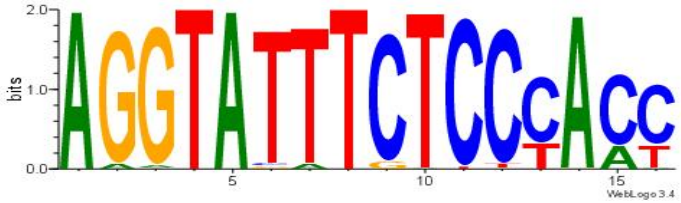

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

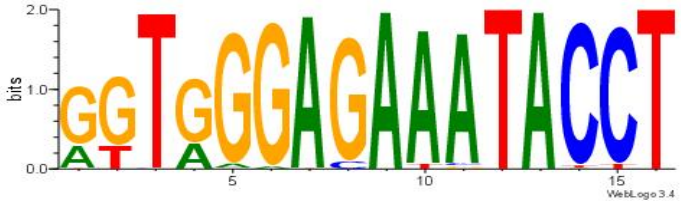

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 14
Similarity score: 0.0897385

Alignment:
GGATCCACTGGGTGAAGCCA
------AAYRGACTAATACA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

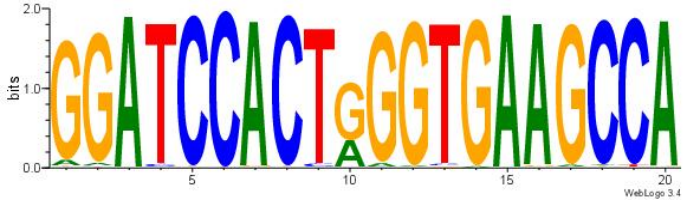

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

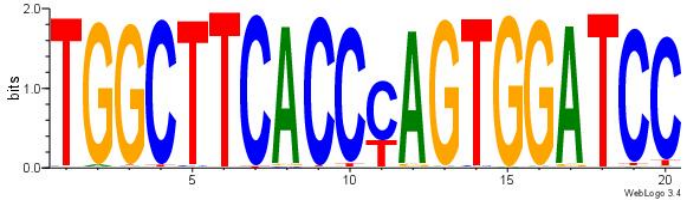

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.0897751

Alignment:
AAATTAGGCCAATTAATAAC
--AAYRGACTAATACA----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

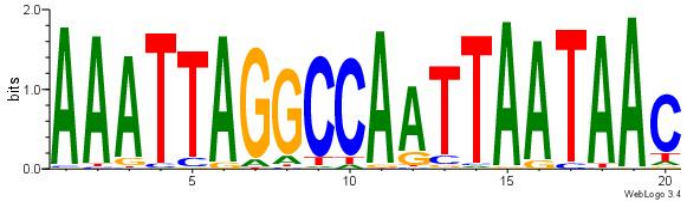

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0915241

Alignment:

```
TAAAAGACTACAWATTGGGT
-AAYRGACTAATACA-----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

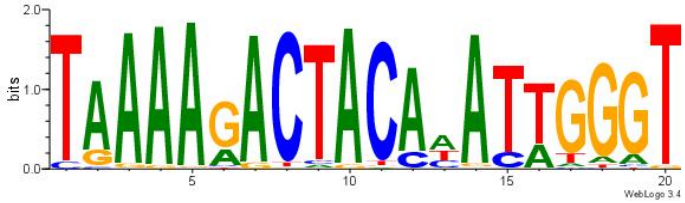

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

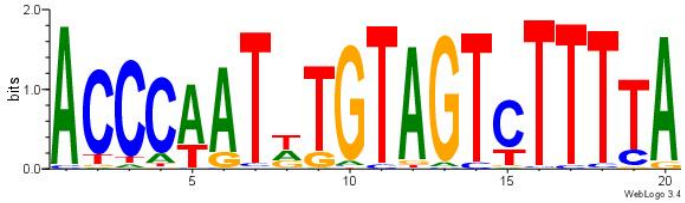

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0916961

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-----TGTATTAGTCMMTT-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

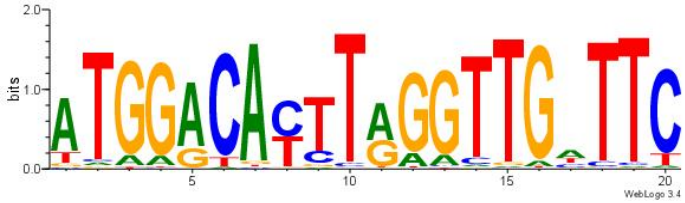

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

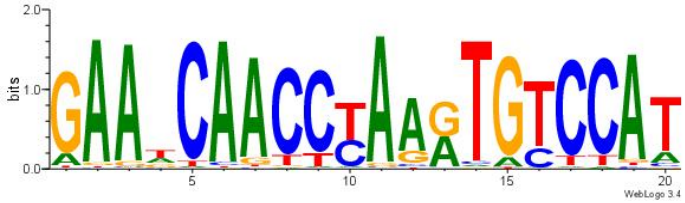

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 14
Similarity score: 0.093047

Alignment:
VMATTTAKTGAGCACCTACT
---TGTATTAGTCMMTT---

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

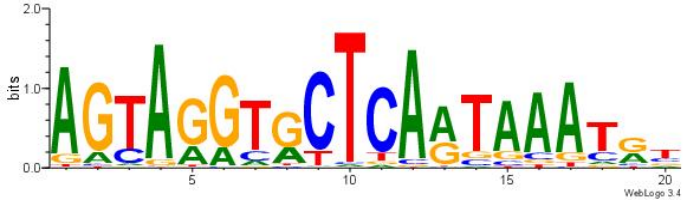

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

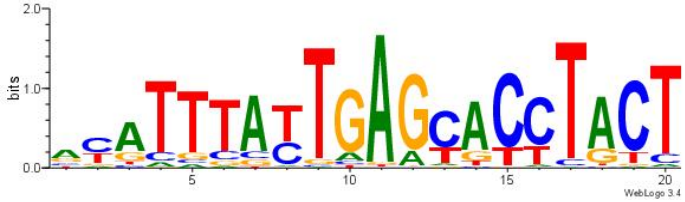

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.093997

Alignment:
ACAAGGCAAGTCCCTTCY
--TGTATTAGTCMMTT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

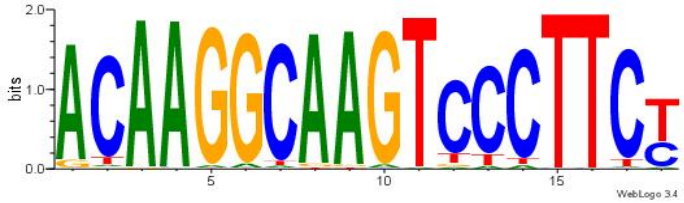

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

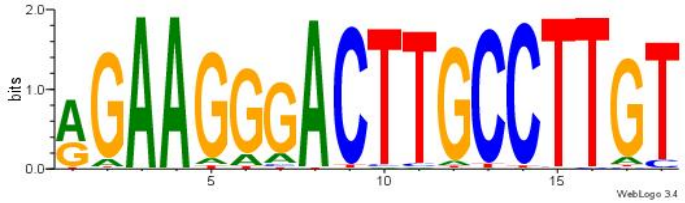

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0941975

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-TGTATTAGTCMMTT-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

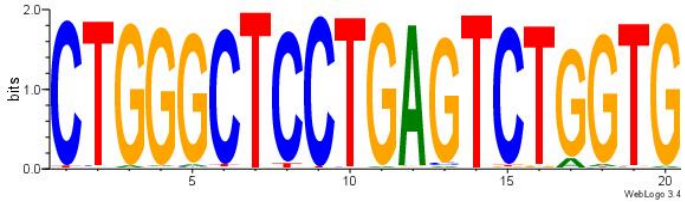

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

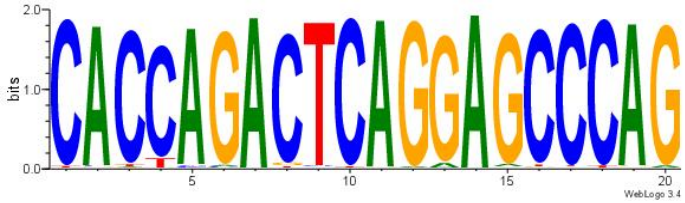

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0965419

Alignment:

```
CATTAGATTCTCATAGGA
-AAYRGACTAATACA---
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

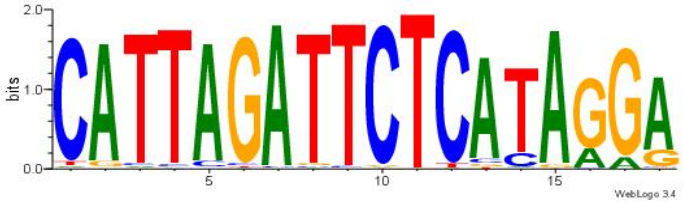

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

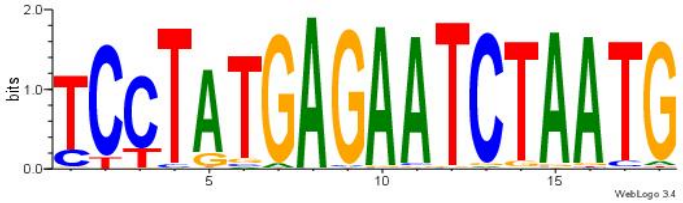

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.0969405

Alignment:
ATGTAACCAAAYACCACCTG
----AAYRGACTAATACA--

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

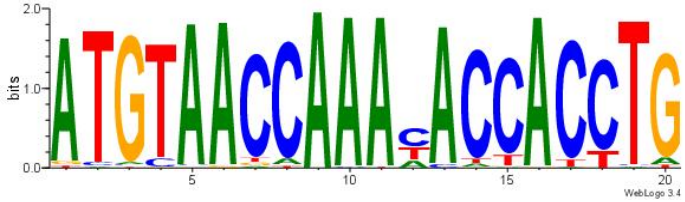

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

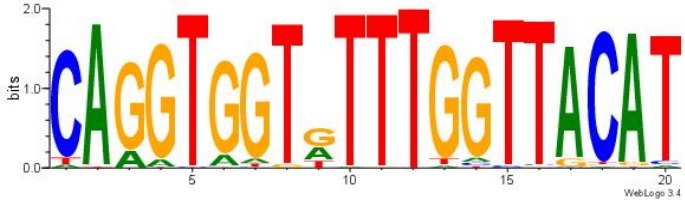

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0970139

Alignment:
GACATGGAGTCAAAGG
--AAYRGACTAATACA

Original motif Consensus sequence: GACATGGAGTCAAAGG

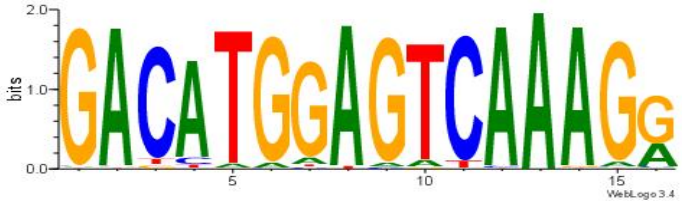

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

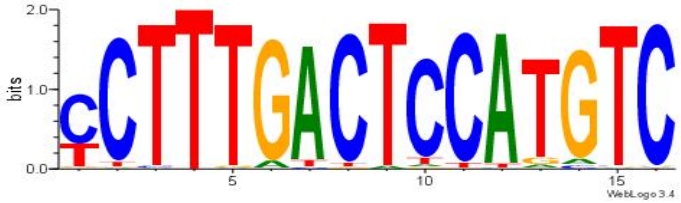

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0979881

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
------AAYRGACTAATACA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

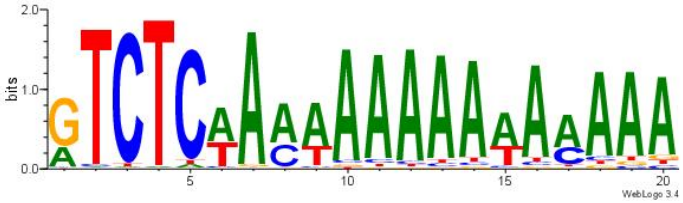

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

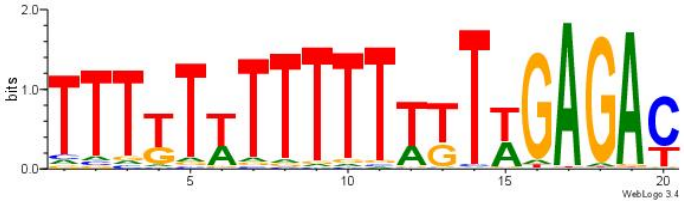

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0981778

Alignment:

```
GKCTGTACCCCCATTGTAT
-TGTATTAGTCMMTT----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

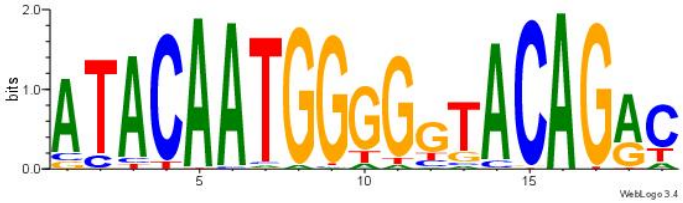

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

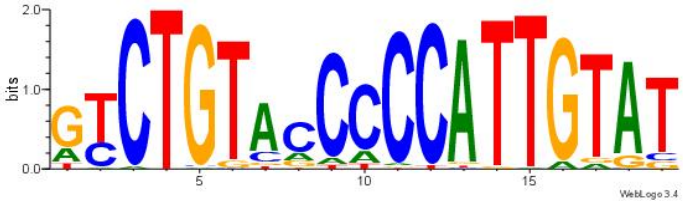

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0995155

Alignment:
CTCRAATGTCCCTT
TGTATTAGTCMMTT

Original motif Consensus sequence: AAGGGACATTKGAG

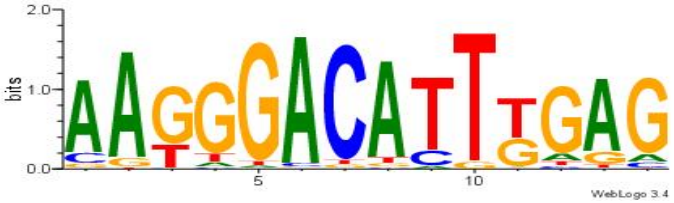

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

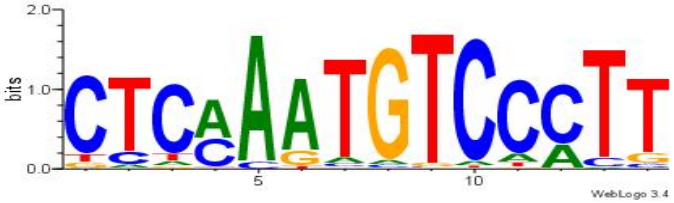

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.100073

Alignment:
TWTACCTATGTAACAAACCT
---AAYRGACTAATACA---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

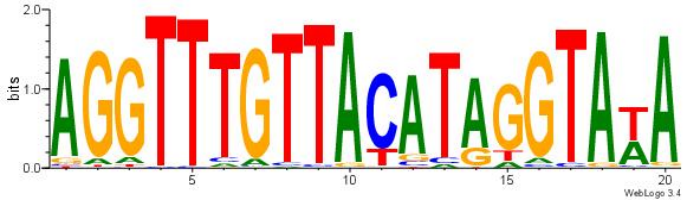

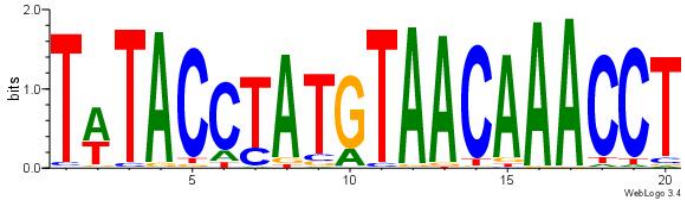

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.10068

Alignment:

```
GAGAACACATGGACA
-AAYRGACTAATACA
```

Original motif Consensus sequence: GAGAACACATGGACA

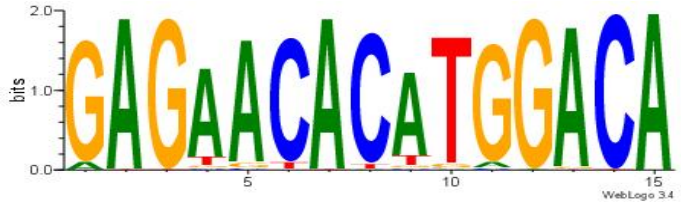

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

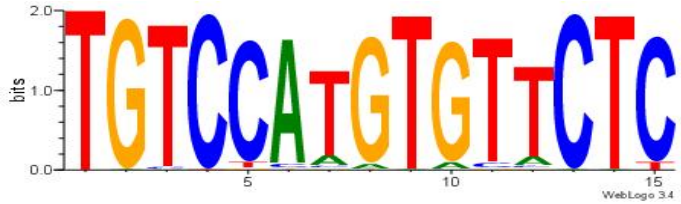

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.100816

Alignment:

```
GCCAATTTCTCCCATTTGGA
-TGTATTAGTCMMTT-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

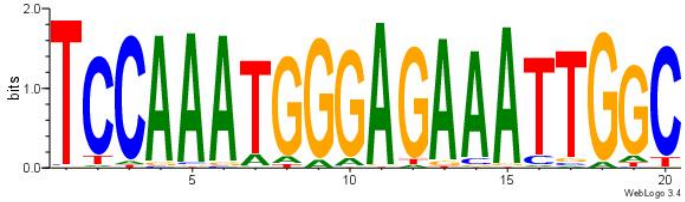

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

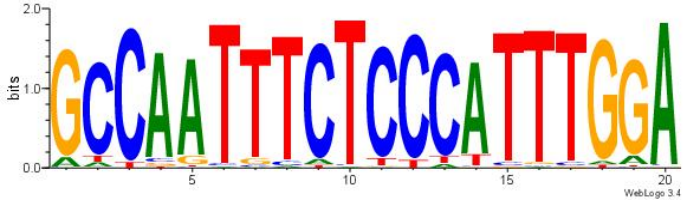

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.101786

Alignment:
AAGAGGTTTAATTGRCTCA
--TGTATTAGTCMMTT---

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

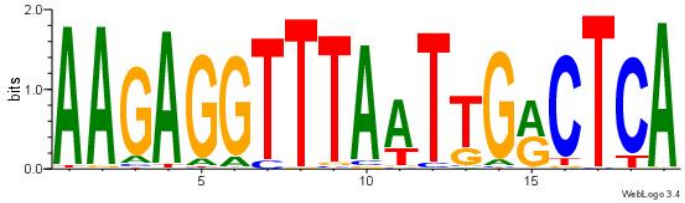

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

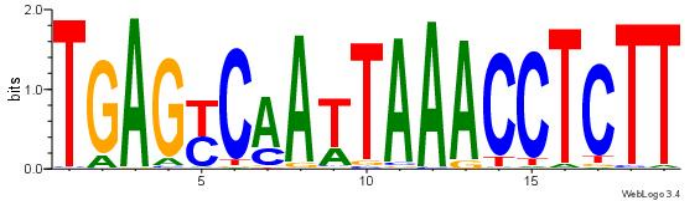

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.102138

Alignment:
GAGAGAGAGAGAGAGAGAGA
AAYRGACTAATACA------

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

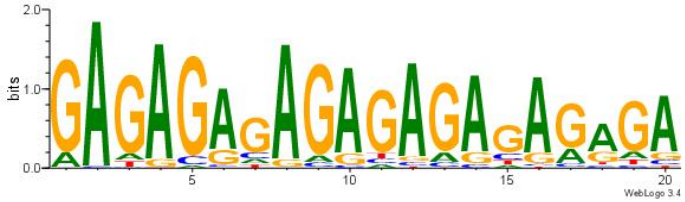

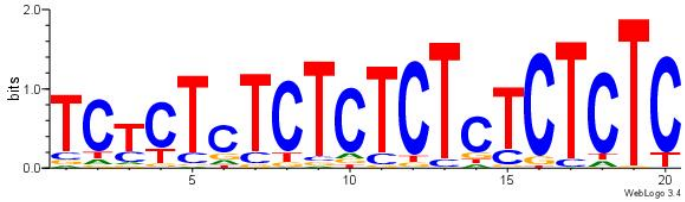

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.102429

Alignment:

```
HAGTGGKATTGCTGGATCAT
----TGTATTAGTCMMTT--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

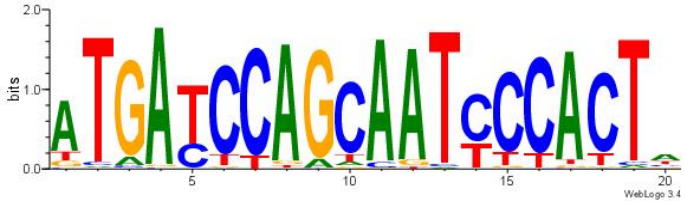

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

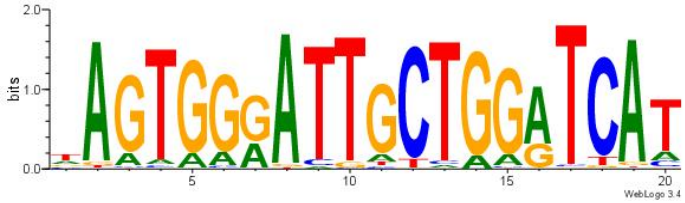

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.102562

Alignment:

```
GTKTMTATMTACCACATTTT
-----TGTATTAGTCMMTT-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

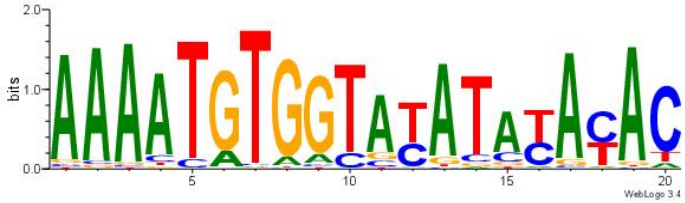

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

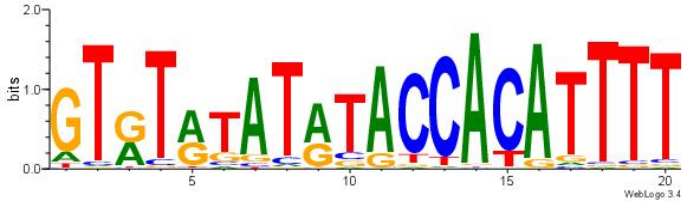

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.102702

Alignment:
AACTGAGGCTCAGAGA
--AAYRGACTAATACA

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

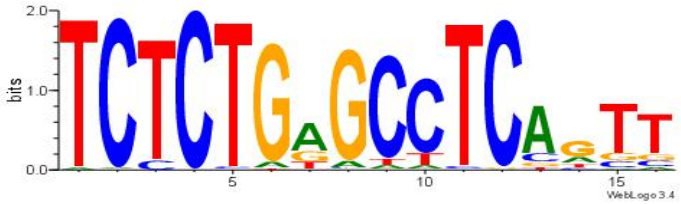

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

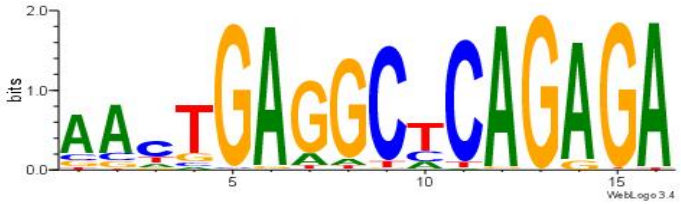

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.102851

Alignment:
ACACCTATTCGCACAC
-AAYRGACTAATACA-

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

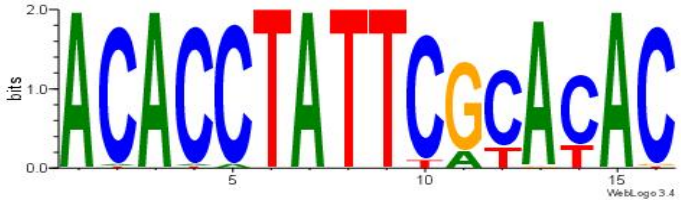

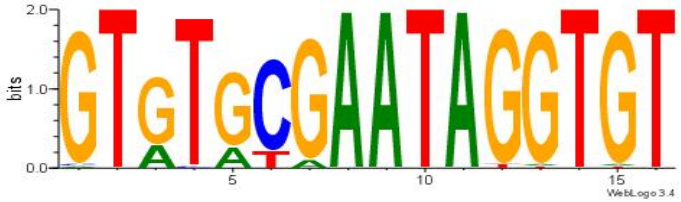

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.102878

Alignment:

```
CTTGGGTGGTCGATGGGAC
-TGTATTAGTCMMTT----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

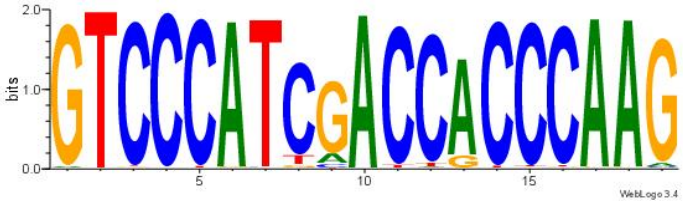

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

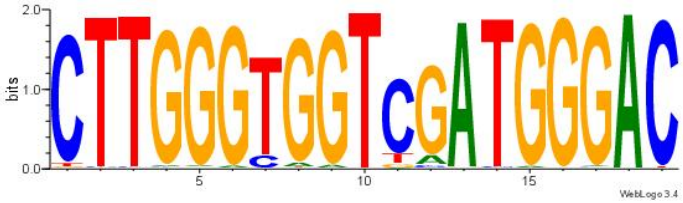

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.102965

Alignment:

```
ACTGTCTTCCACCTCCACAT
----TGTATTAGTCMMTT--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

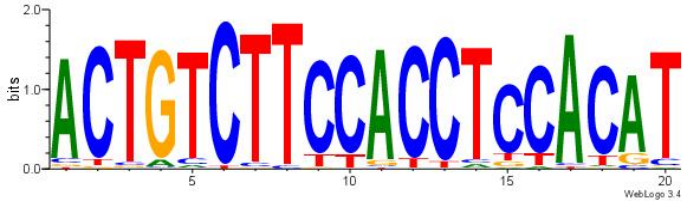

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

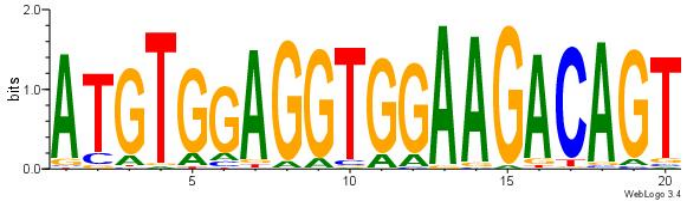

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.103462

Alignment:
AGGCTGTTTTACAGTTAAC
--TGTATTAGTCMMTT---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

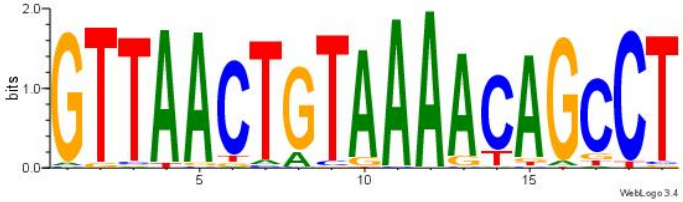

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

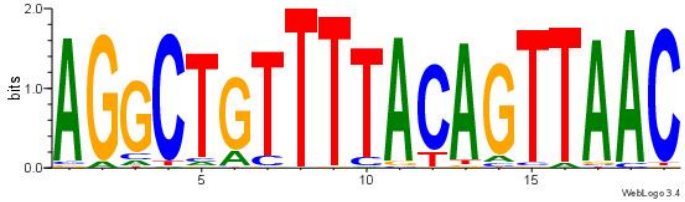

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.103757

Alignment:
ACTTTGGACTGTGGACTTTT
----TGTATTAGTCMMTT--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

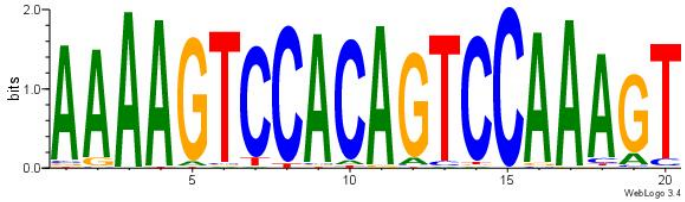

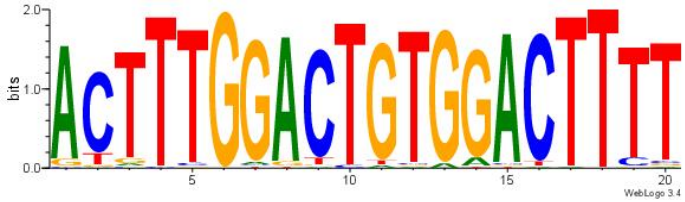

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.103923

Alignment:

```
AGTGTTTCCAAMCTGCT
TGTATTAGTCMMTT---
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

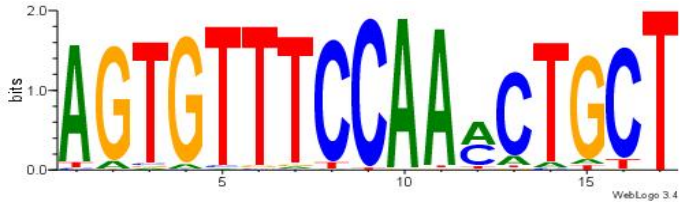

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

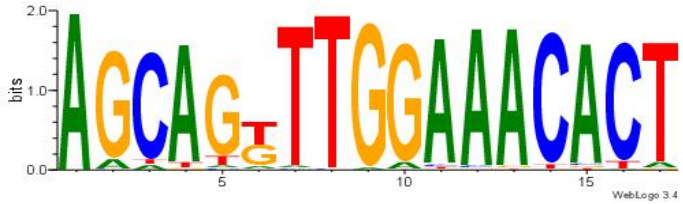

Dataset #:	1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.104274

Alignment:

```
GCAGCAMTATTCACAATAG
--TGTATTAGTCMMTT---
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

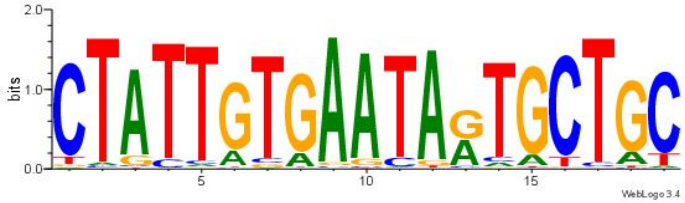

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

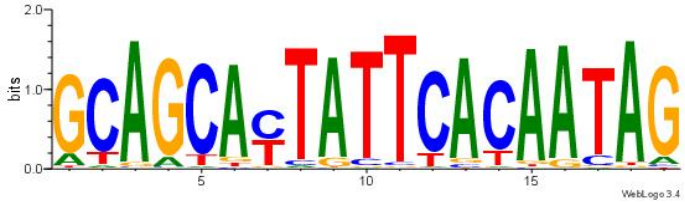

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.10435

Alignment:
ATAGGAATGCTTGTGATTTT
-----TGTATTAGTCMMTT-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

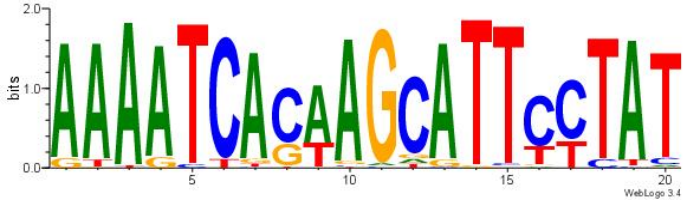

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

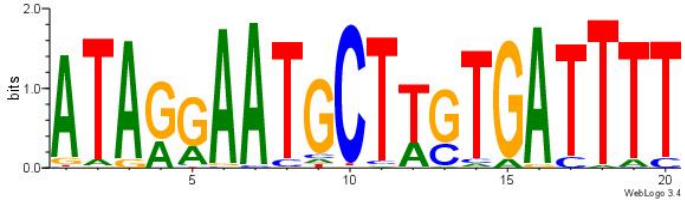

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.104516

Alignment:
TGTAKTCCCAGCTAC
TGTATTAGTCMMTT-

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

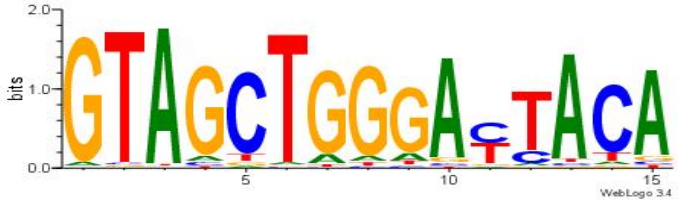

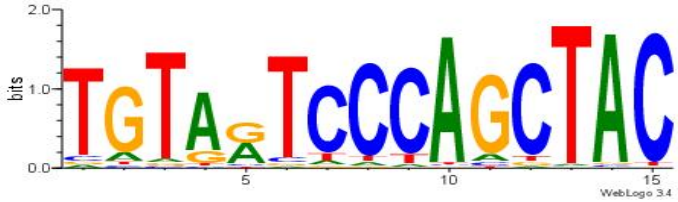

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.104753

Alignment:

```
AGAAAGGCATGTGAAAA
--AAYRGACTAATACA-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

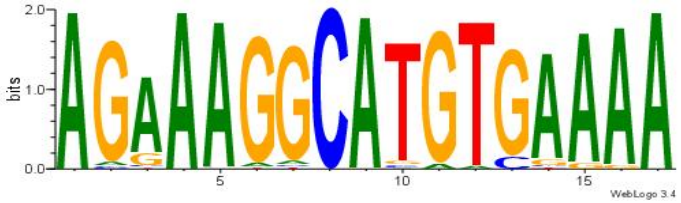

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

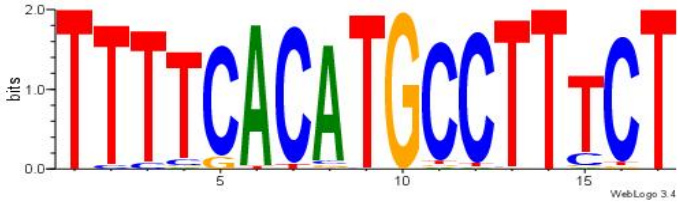

Dataset #: 1

Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.10494

Alignment:

```
TCGTTCACTCAGTGC
TGTATTAGTCMMTT-
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

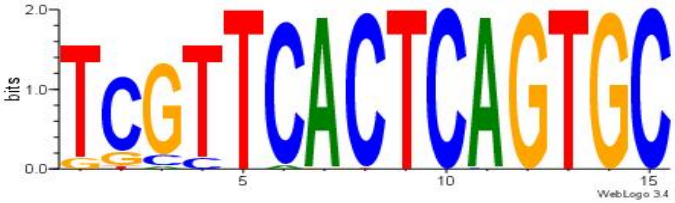

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.105285

Alignment:
TMGGGAGGCTGAGGCAGGAG
----AAYRGACTAATACA--

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

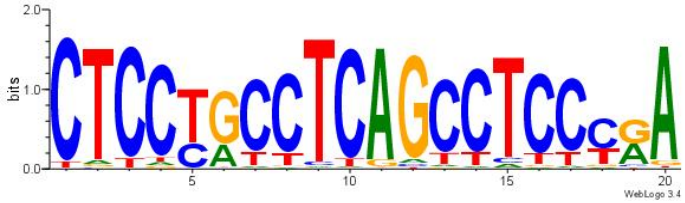

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

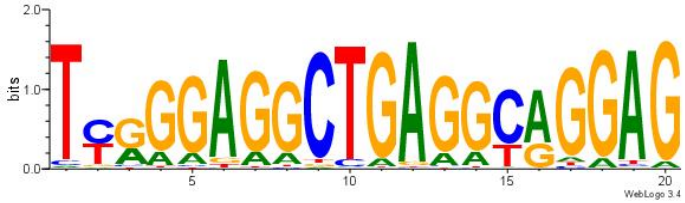

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.105606

Alignment:
GCCAGTCACAAAARGACAMA
----AAYRGACTAATACA--

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

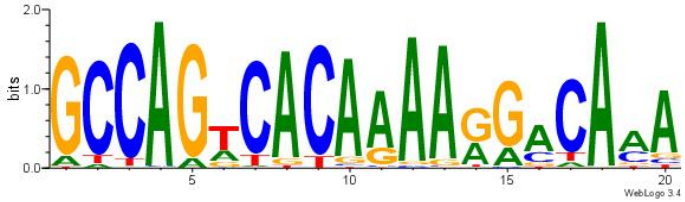

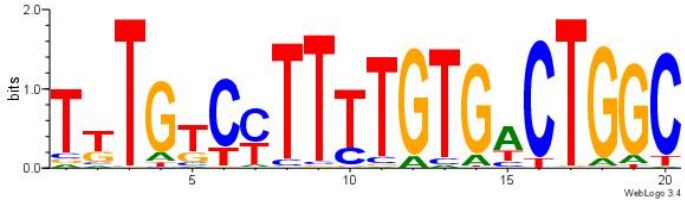

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.105879

Alignment:

```
GGATTTMKGACTTGCATGGG
---TGTATTAGTCMMTT---
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

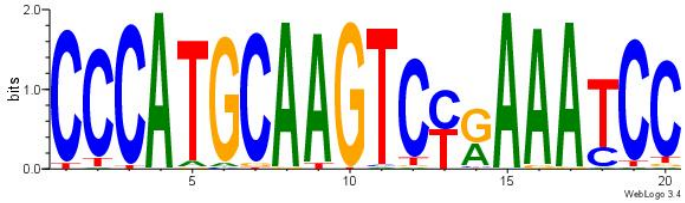

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

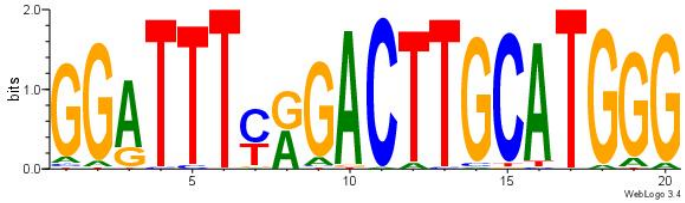

Dataset #:	1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.106011

Alignment:

```
TGATACCCAGGCAAACAG
---AAYRGACTAATACA-
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

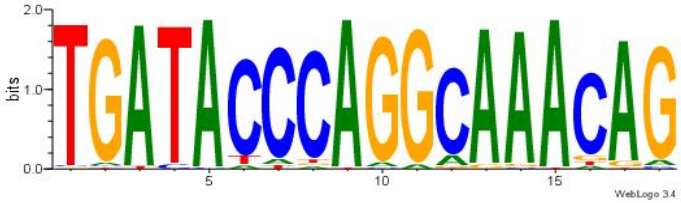

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

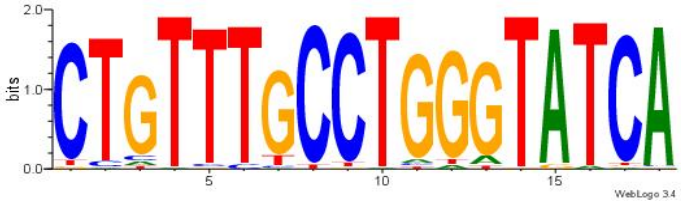

Dataset #: 1 Motif ID: 214 Motif name: Motif 214

Original motif Consensus sequence: CTCAGGAATGGAAAACC

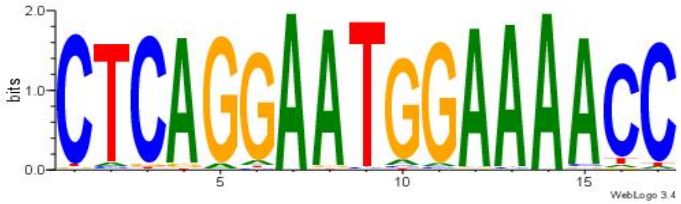

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

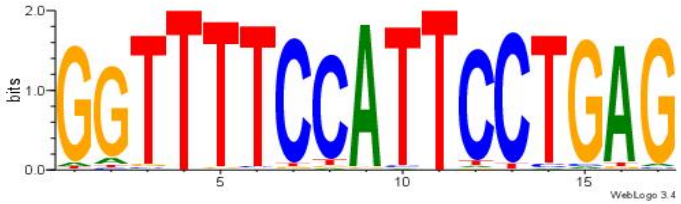

Best Matches for Motif ID 214 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.10823

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-GGTTTTCCATTCCTGAG--
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

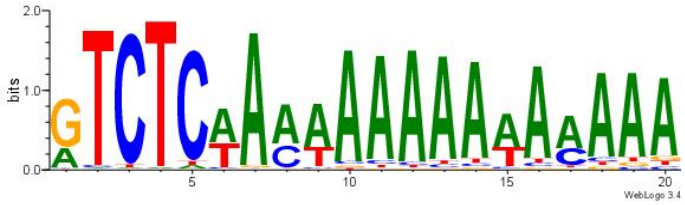

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

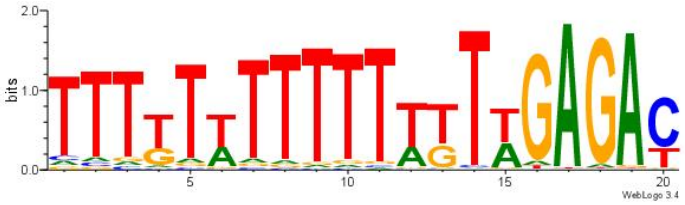

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.109842

Alignment:

```
TAMGACCTCAGGTCCTCAG
--GGTTTTCCATTCCTGAG
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

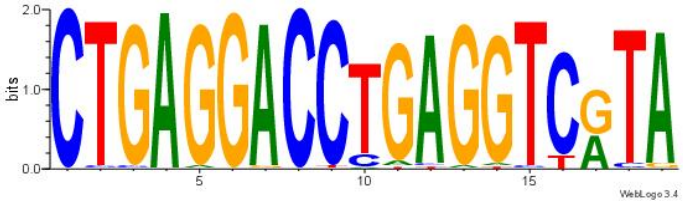

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

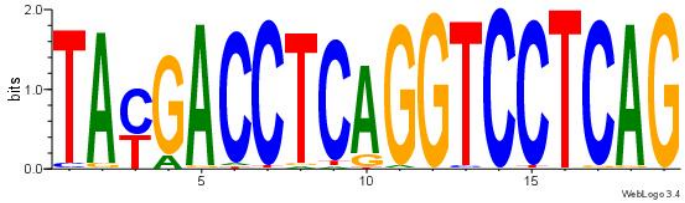

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.110599

Alignment:

```
CTCAGTGTTAATCTCCTGTC
---GGTTTTCCATTCCTGAG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

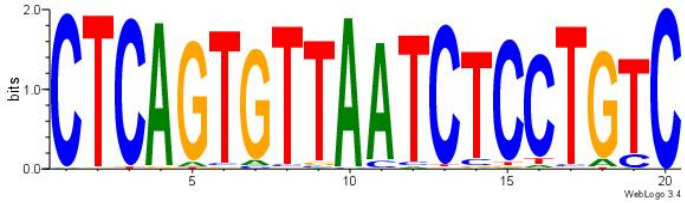

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

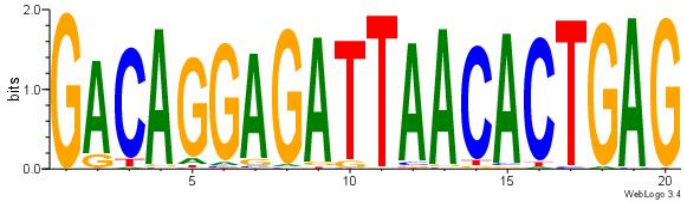

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.112077

Alignment:

```
MGGGATATAATCTCCTGGTG
--GGTTTTCCATTCCTGAG-
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

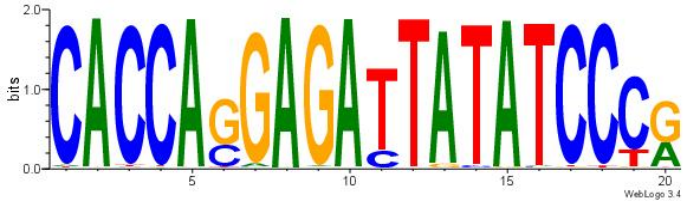

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

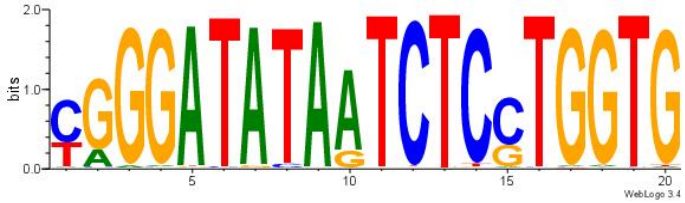

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.112221

Alignment:

```
GTTTAACCATTGAGGGCCAG
GGTTTTCCATTCCTGAG---
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

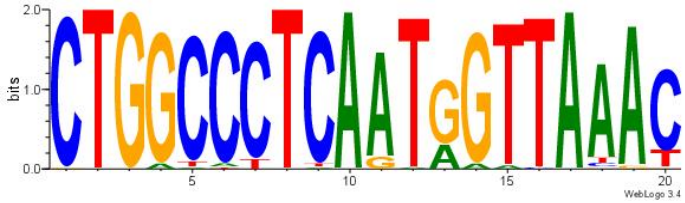

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

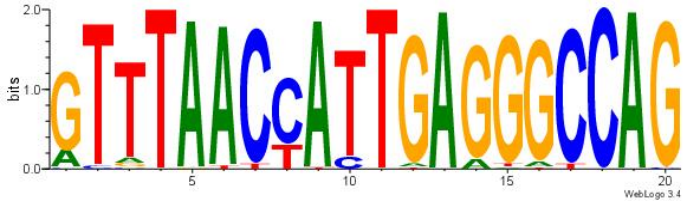

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.113679

Alignment:
CTTTCTGGGCTGGCCAAGG
CTCAGGAATGGAAAACC--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

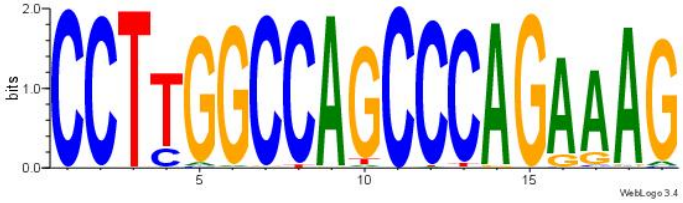

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

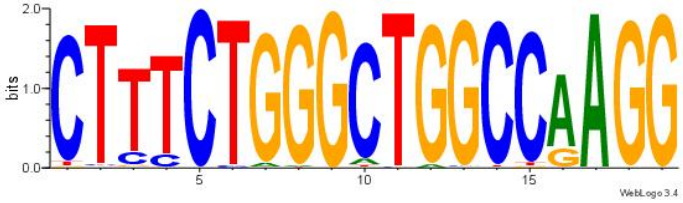

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.116547

Alignment:
GCCAGTCACAAAARGACAMA
CTCAGGAATGGAAAACC---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

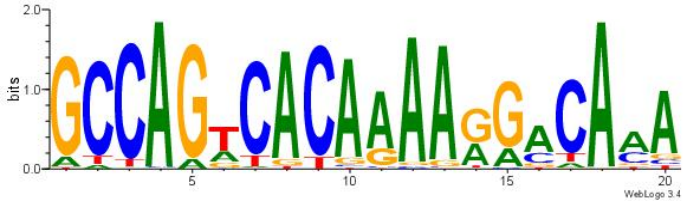

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

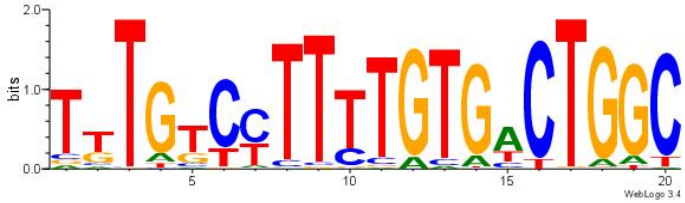

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.117038

Alignment:

```
ATTGATMKCCAGGGTTGATT
--GGTTTTCCATTCCTGAG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

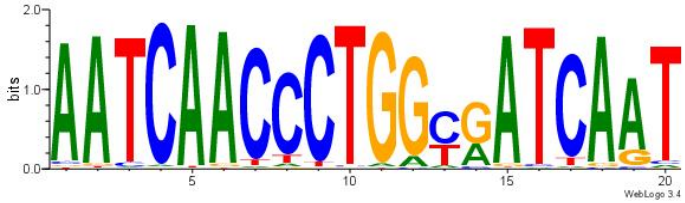

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

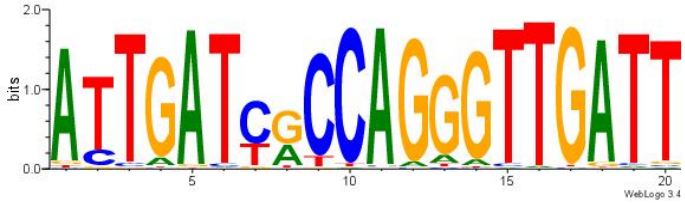

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.117147

Alignment:

```
TAGTGGTGATTTSTGAGAT
GGTTTTCCATTCCTGAG--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

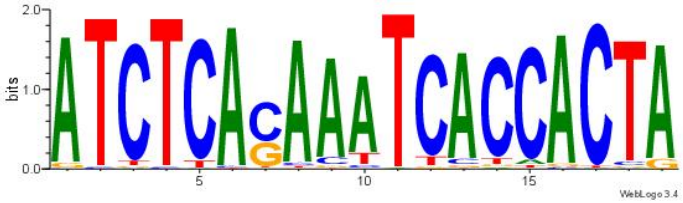

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

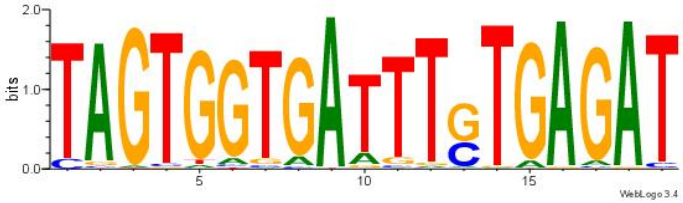

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.11722

Alignment:
KACGGGCTTAARAAACGGC
--CTCAGGAATGGAAAACC

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

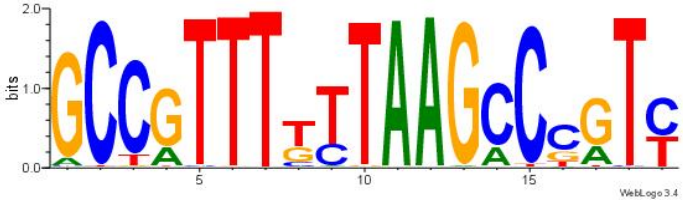

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

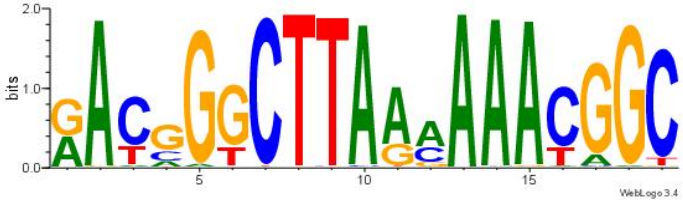

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.117859

Alignment:
GCACATGTAYCCYAGAACTT
-CTCAGGAATGGAAAACC--

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

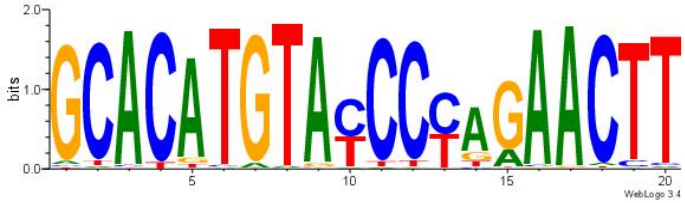

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

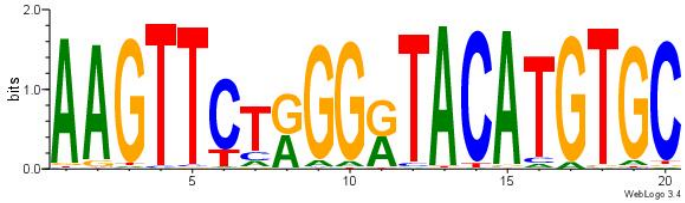

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.118848

Alignment:

```
AATGAKATCATGTCYTTTGC
--GGTTTTCCATTCCTGAG-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

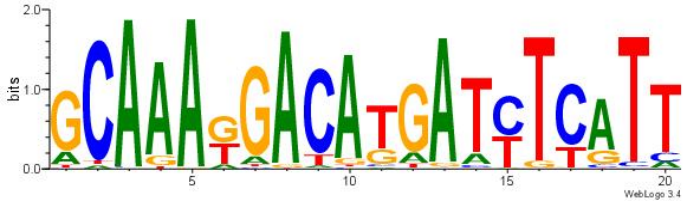

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

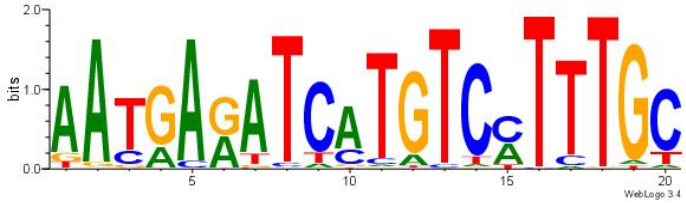

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.118854

Alignment:

```
TACCTGAGACTGGGTAATTT
-CTCAGGAATGGAAAACC--
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

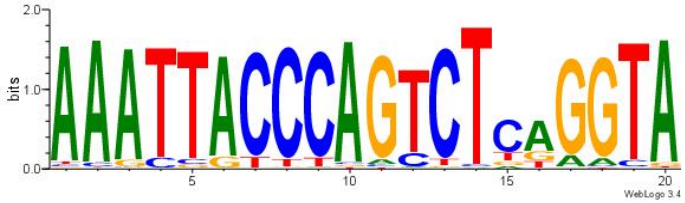

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

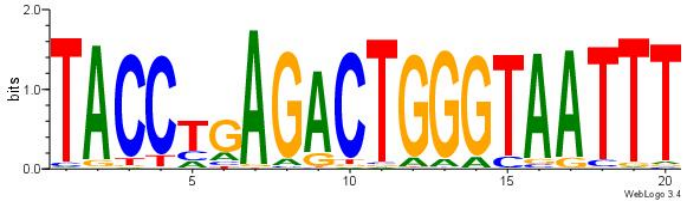

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.118911

Alignment:
AGTGTTTCCAAMCTGCT
GGTTTTCCATTCCTGAG

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

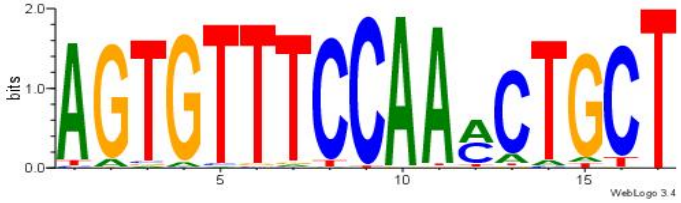

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

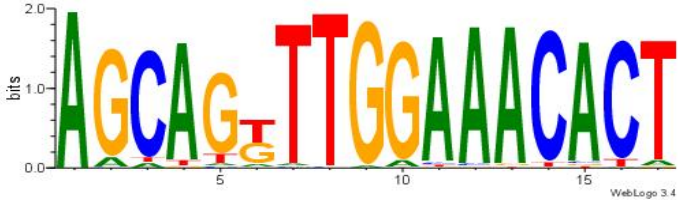

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.119404

Alignment:
CTCCAGKTMCATCCATGTTG
--GGTTTTCCATTCCTGAG-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

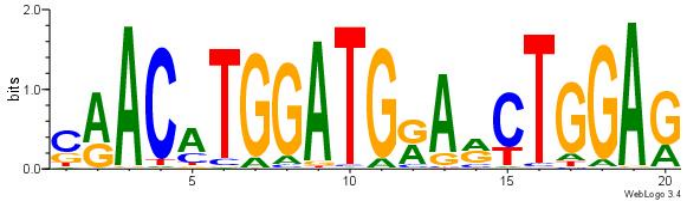

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

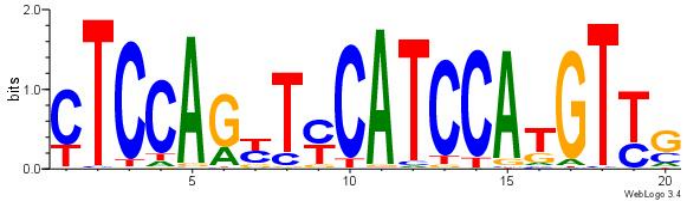

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.119717

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-GGTTTTCCATTCCTGAG-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

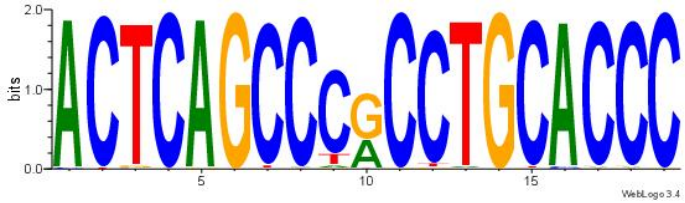

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

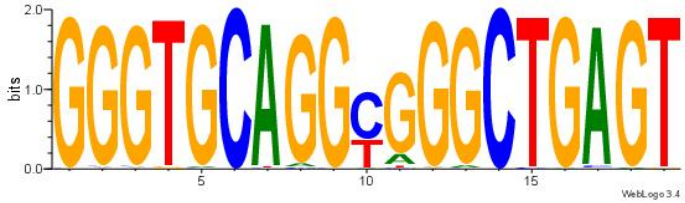

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.120219

Alignment:

```
CATTCTGGGGTCTGGAGGAY
GGTTTTCCATTCCTGAG---
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

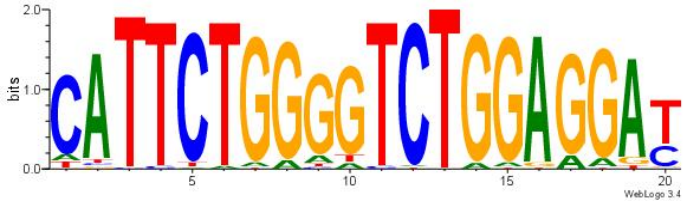

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

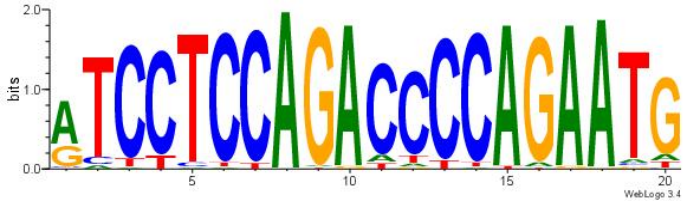

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.120584

Alignment:
CAAAGGCATAAGAATGAT
CTCAGGAATGGAAAACC-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

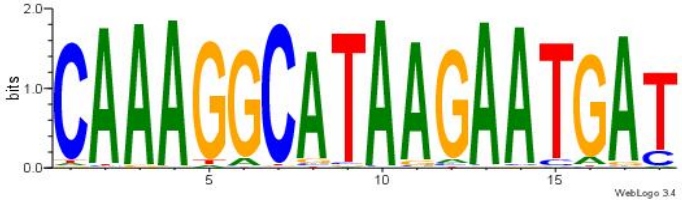

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

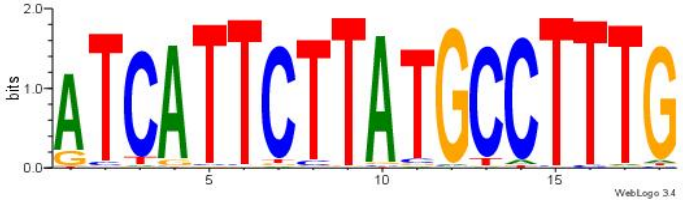

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.122293

Alignment:
CTGGGCTCCTGAGTCTGGTG
GGTTTTCCATTCCTGAG---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

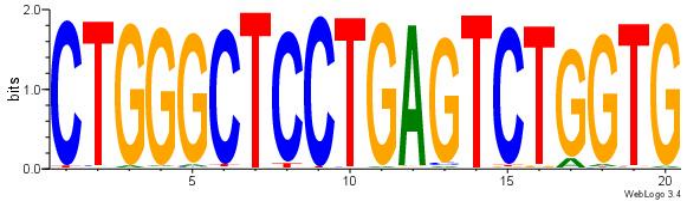

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

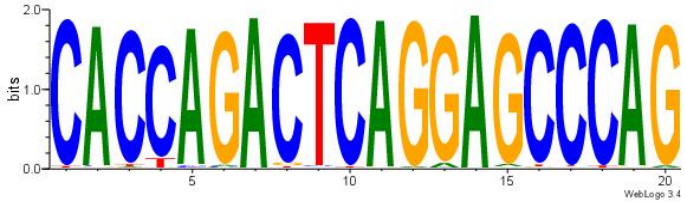

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.122442

Alignment:

```
ATGTGGAGGTGGAAGACAGT
--CTCAGGAATGGAAAACC-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

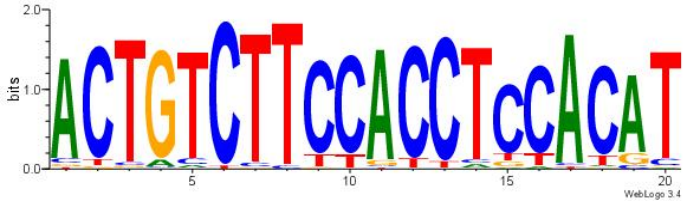

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

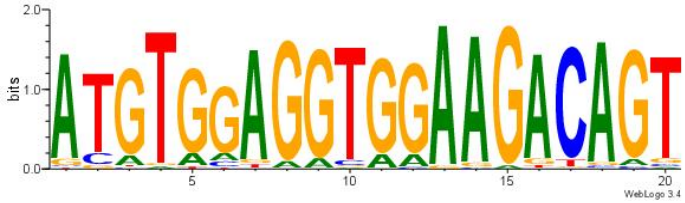

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.122753

Alignment:

```
AGTTGTAATTGGGAGACTT
-CTCAGGAATGGAAAACC-
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

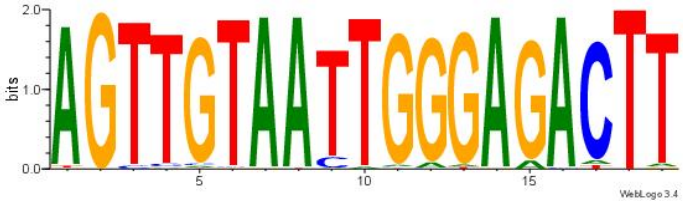

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

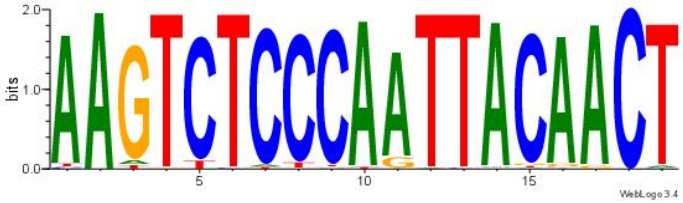

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.122795

Alignment:
GGGCTCCCACAGTGCAGCGG
--GGTTTTCCATTCCTGAG-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

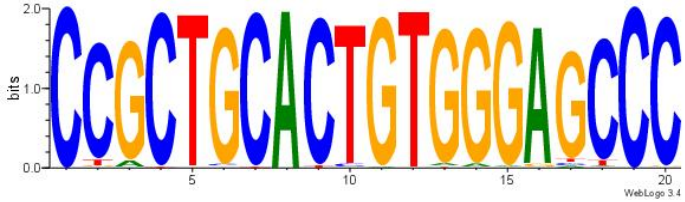

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

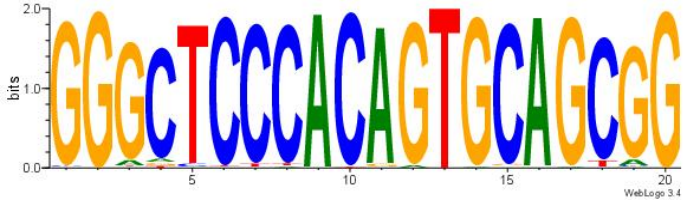

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.123271

Alignment:
GCCKCCCCGTCCGGGAGGGA
GGTTTTCCATTCCTGAG---

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

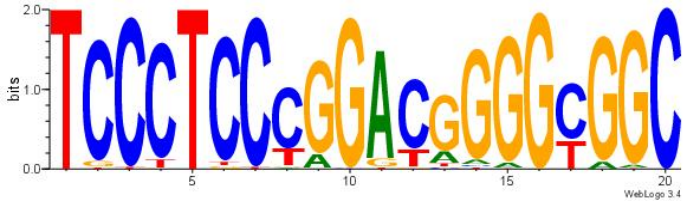

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

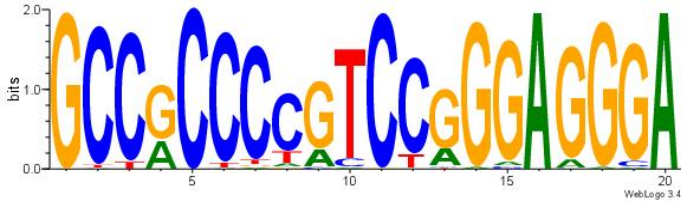

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.1236

Alignment:

```
GGGATTGTAAATACACCAAT
--GGTTTTCCATTCCTGAG-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

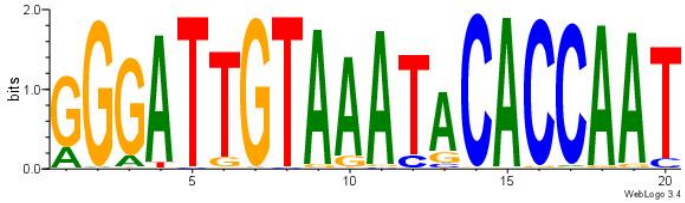

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.123997

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-GGTTTTCCATTCCTGAG--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

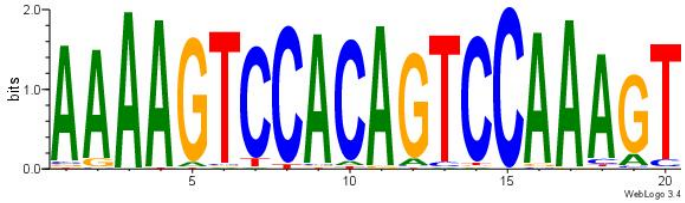

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

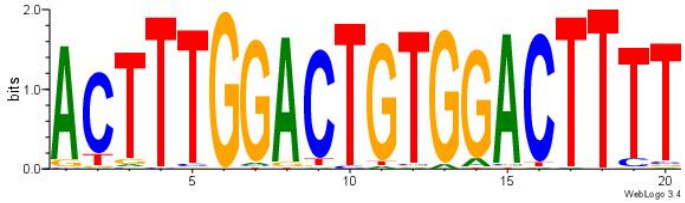

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.12482

Alignment:
GAAATTGACTTCCTCCT
GGTTTTCCATTCCTGAG

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

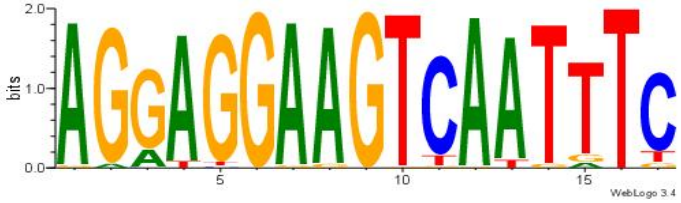

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

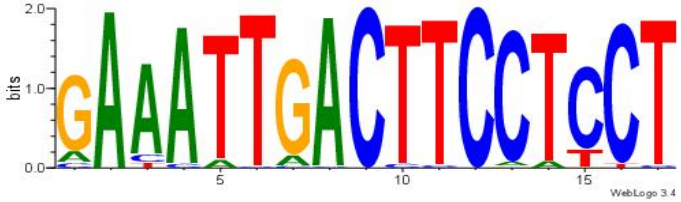

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.124859

Alignment:
AWTKKTGGTTKCCAGKGGCT
GGTTTTCCATTCCTGAG---

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

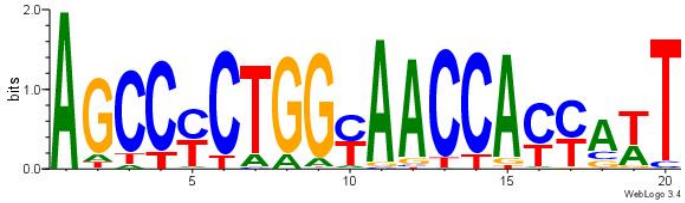

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

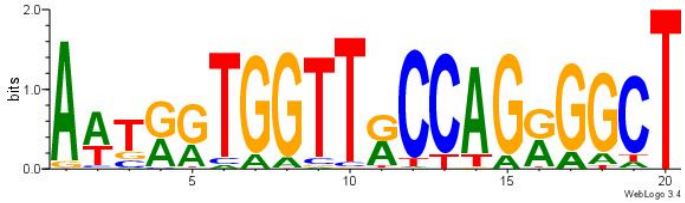

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.125416

Alignment:

```
TGCCCAGTCTGGAAAGTG
-CTCAGGAATGGAAAACC
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

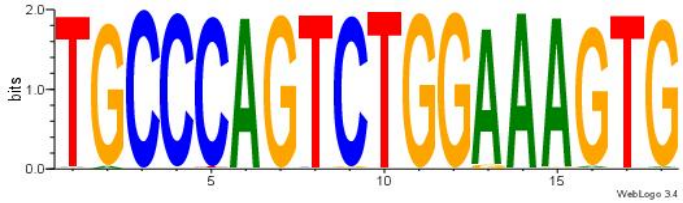

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

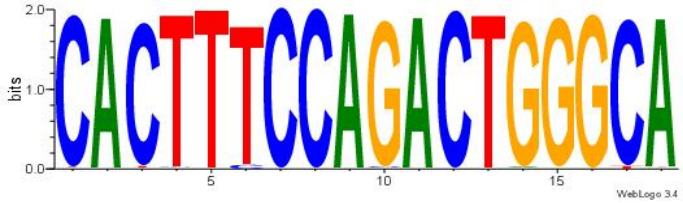

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.125452

Alignment:

```
GGTCAGGATCATCAATAT
CTCAGGAATGGAAAACC-
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

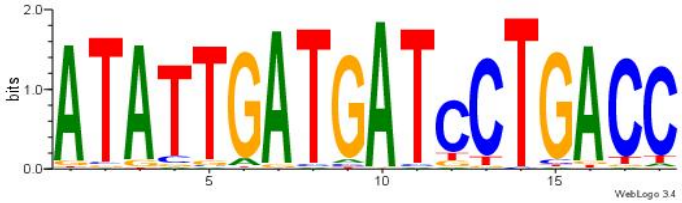

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

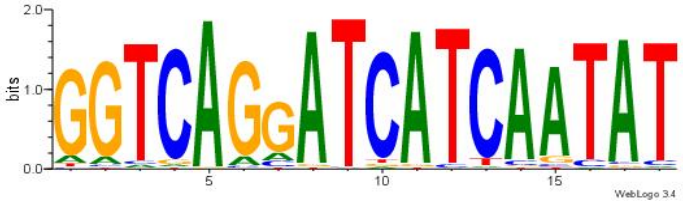

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.125921

Alignment:
GGTTCATCTCACTAGGGAGT
---GGTTTTCCATTCCTGAG

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

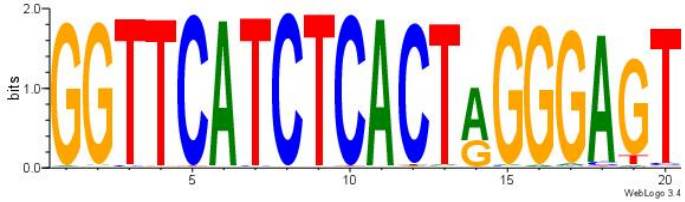

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

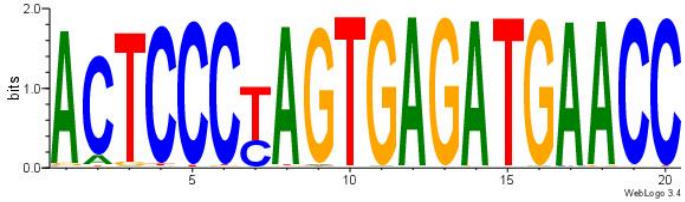

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.126077

Alignment:
CCCATGCAAGTCYRAAATCC
--CTCAGGAATGGAAAACC-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

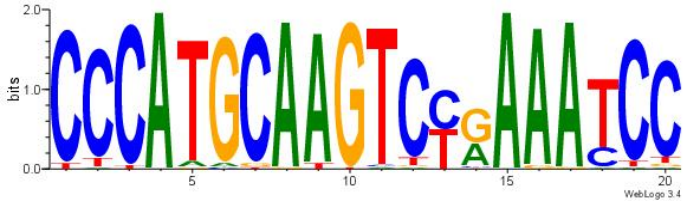

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

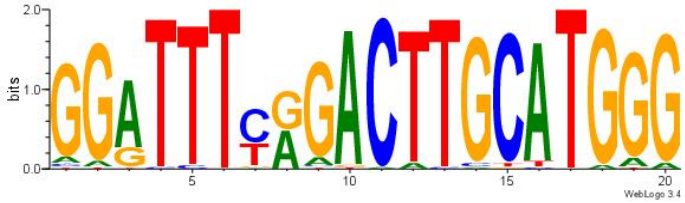

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.126196

Alignment:

```
GGCACTGCTGGGGGACCCAG
---CTCAGGAATGGAAAACC
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

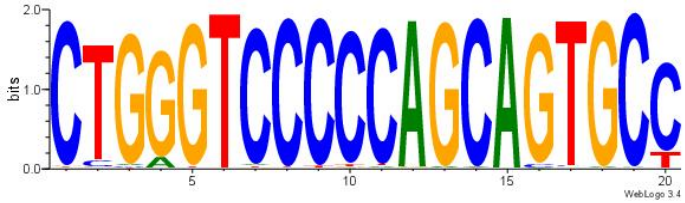

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

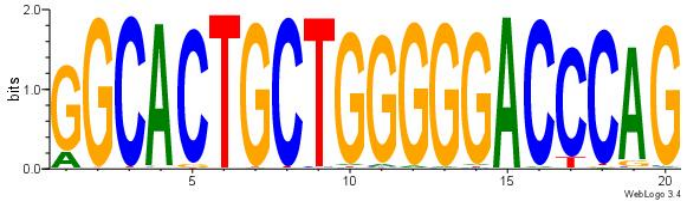

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.126287

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---CTCAGGAATGGAAAACC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

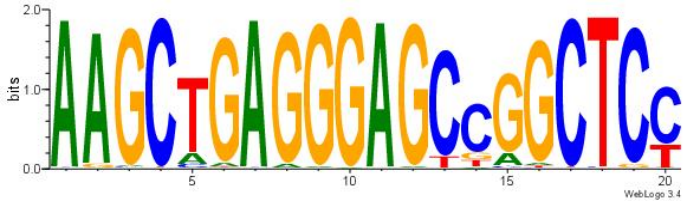

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

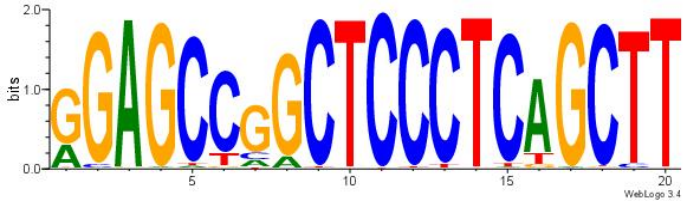

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.126537

Alignment:
GGTGGAGCTGCCTGCCAGTC
---GGTTTTCCATTCCTGAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

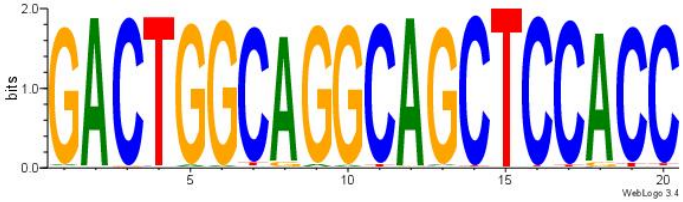

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

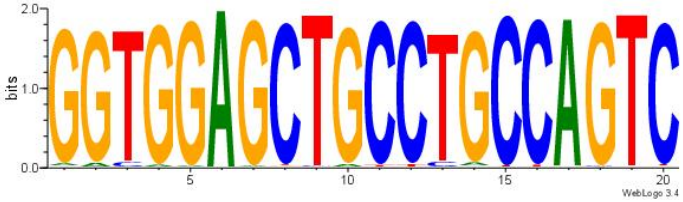

Dataset #: 1
Motif ID: 329
Motif name: Motif 329
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.12697

Alignment:
GGGAGGGATATATTAGC
CTCAGGAATGGAAAACC

Original motif Consensus sequence: GGGAGGGATATATTAGC

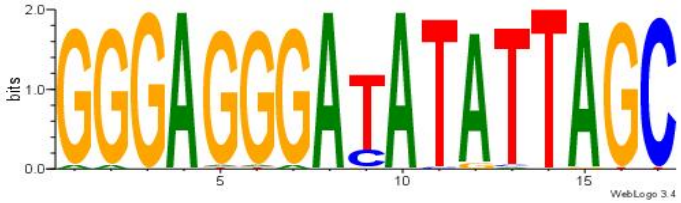

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

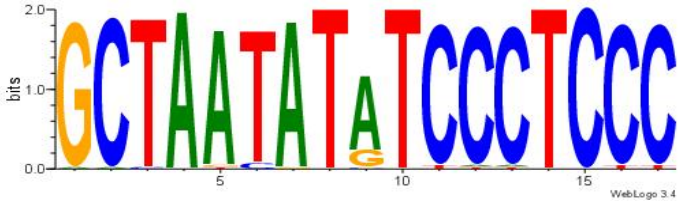

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.127783

Alignment:

```
GTKTMTATMTACCACATTTT
GGTTTTCCATTCCTGAG---
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

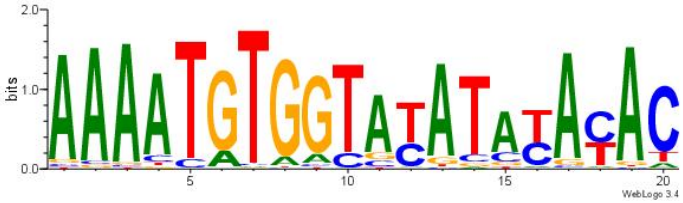

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

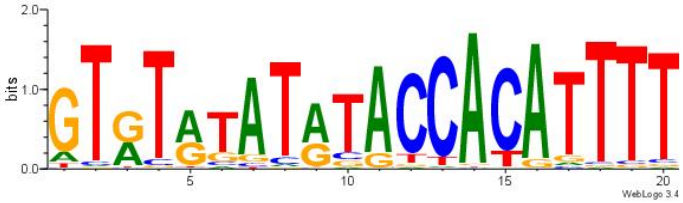

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.128775

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
---GGTTTTCCATTCCTGAG
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

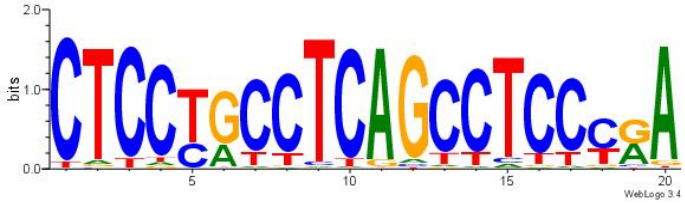

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

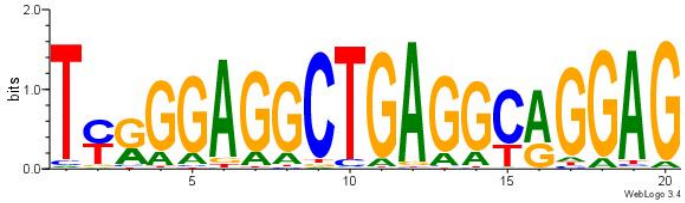

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.129577

Alignment:
ATCTGACAGGAGGYRGAGCT
--CTCAGGAATGGAAAACC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

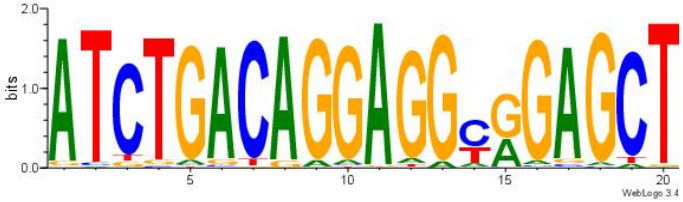

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

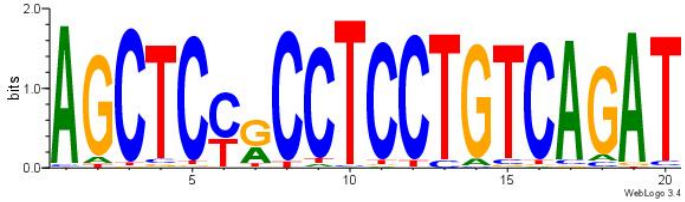

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.131533

Alignment:
CTGGGCRACAGAGYRAGACY
---CTCAGGAATGGAAAACC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

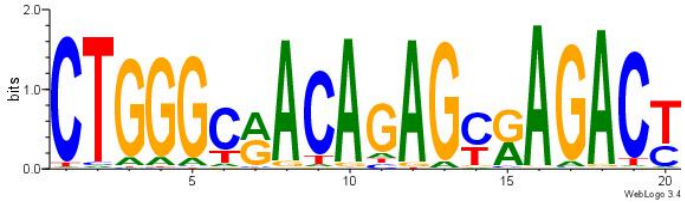

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

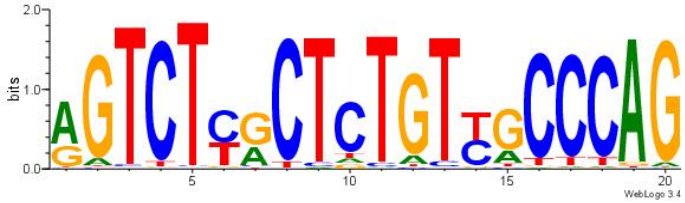

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.131669

Alignment:

```
TWTACCTATGTAACAAACCT
-CTCAGGAATGGAAAACC--
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

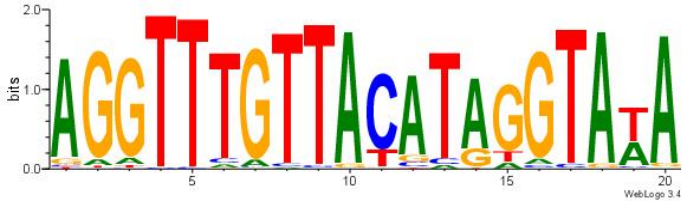

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

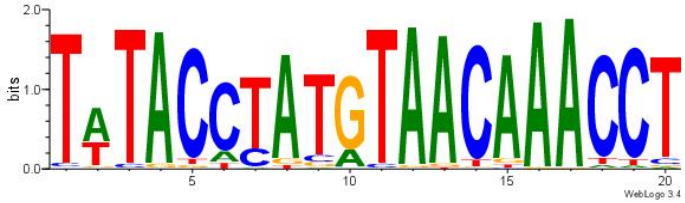

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.132079

Alignment:

```
CTGACTGGGAGACACCTCCC
--CTCAGGAATGGAAAACC-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

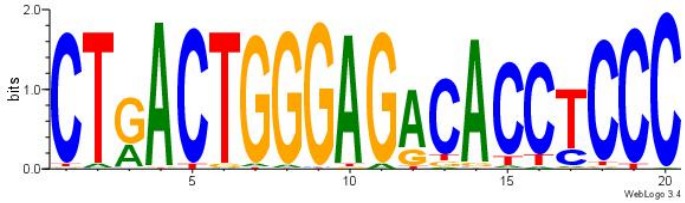

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

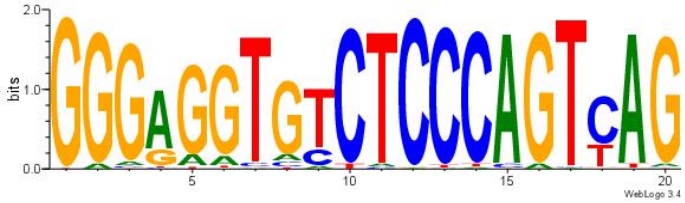

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.132334

Alignment:
AGGAGCGCCTCTKCCCGGC
-GGTTTTCCATTCCTGAG-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

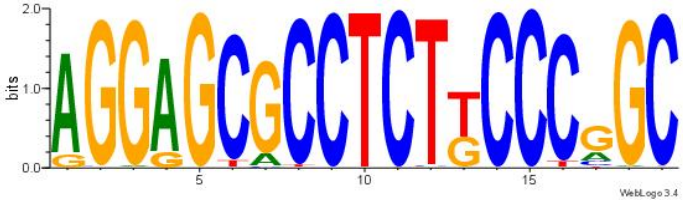

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

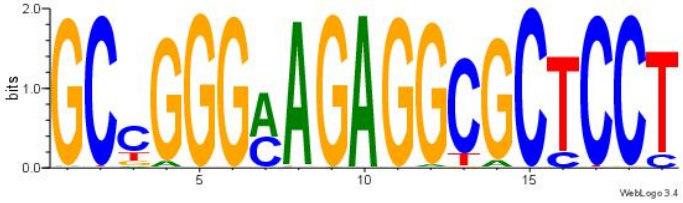

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.132832

Alignment:
CTCCTGACCTCGTGATC
CTCAGGAATGGAAAACC

Original motif Consensus sequence: GATCACGAGGTCAGGAG

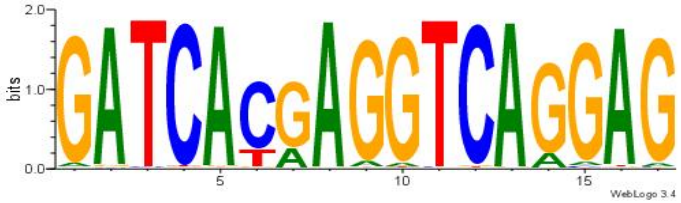

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

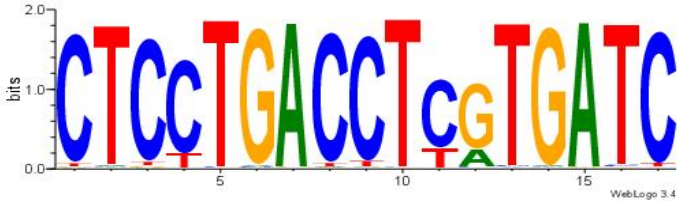

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.13376

Alignment:

```
GCCAGGCAGAGRGKCTCCT
CTCAGGAATGGAAAACC--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

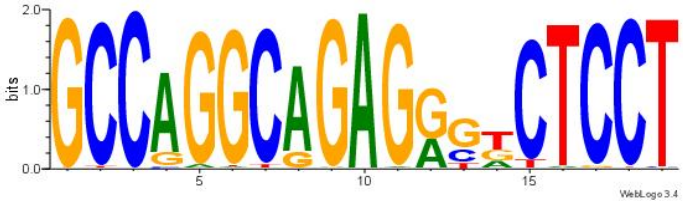

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

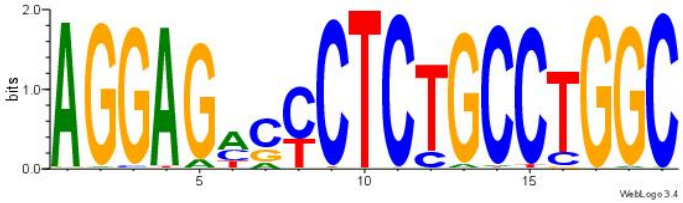

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.134046

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-GGTTTTCCATTCCTGAG--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

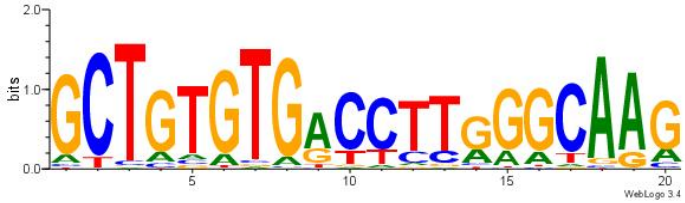

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

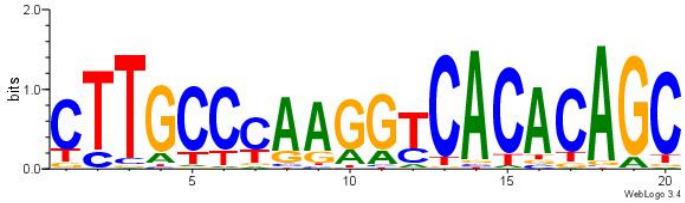

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.134223

Alignment:
GTTAACTGTAAAACAGCCT
CTCAGGAATGGAAAACC--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

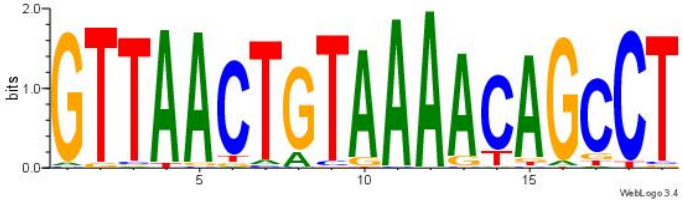

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

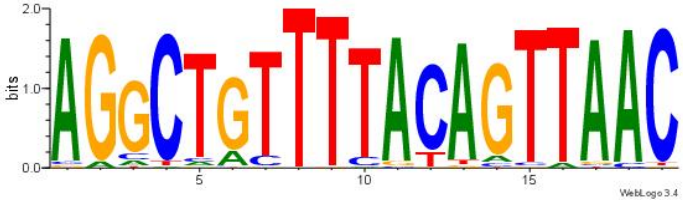

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.134243

Alignment:
ATGGAATAYTATTCAGCCAT
-GGTTTTCCATTCCTGAG--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

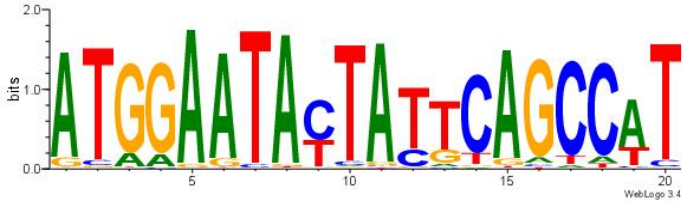

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

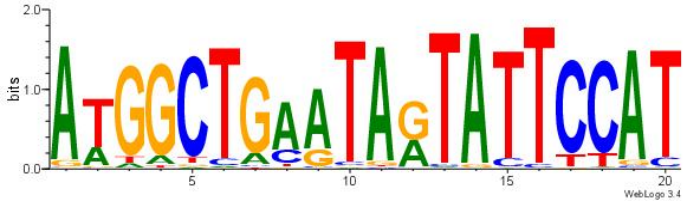

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.134256

Alignment:

```
AAGCTCGAACTGGGTGGAGC
---CTCAGGAATGGAAAACC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

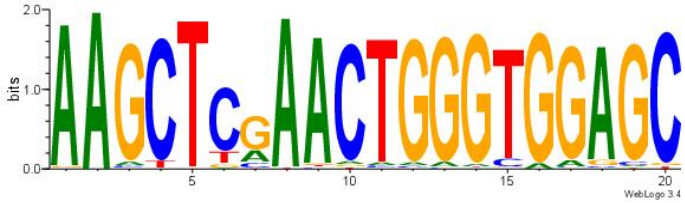

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

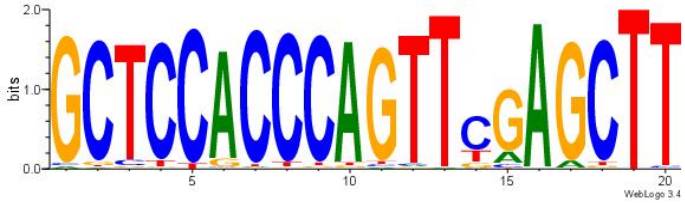

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.134495

Alignment:

```
GTTGTGAGGATTAAATGAG
--GGTTTTCCATTCCTGAG
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

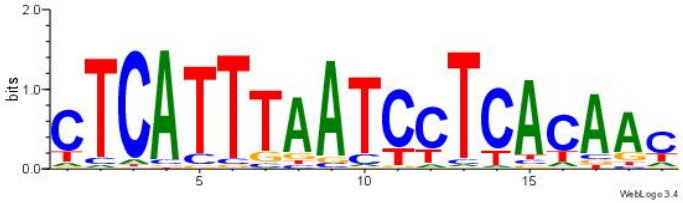

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

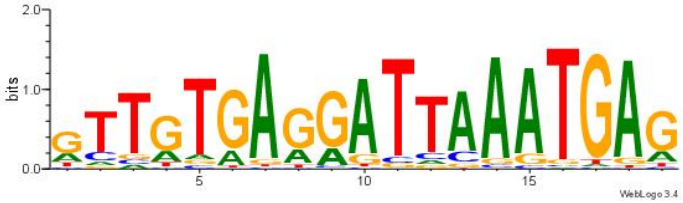

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.134729

Alignment:
GAATACCTCCTGAAGGACCT
-CTCAGGAATGGAAAACC--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

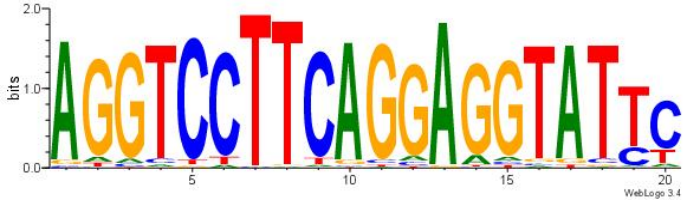

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

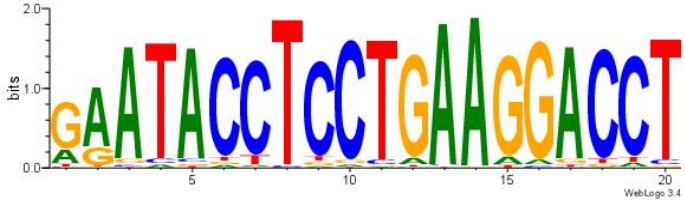

Dataset #: 1 Motif ID: 215 Motif name: Motif 215

Original motif Consensus sequence: HGCTCCTGTGSKCCC

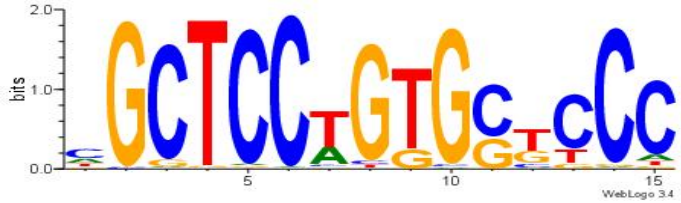

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Best Matches for Motif ID 215 (Highest to Lowest)

Dataset #: 1
Motif ID: 8
Motif name: Motif 8

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.0619315

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
GGGRSCACAGGAGCD-----
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

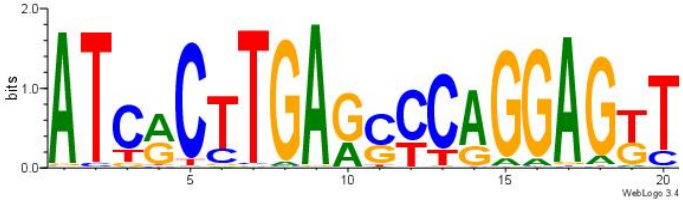

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

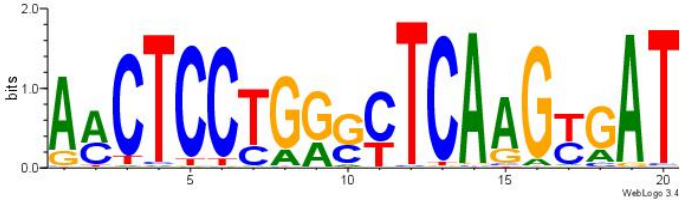

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.0736896

Alignment:
CTGGGTCCCCCAGCAGTGCC
--GGGRSCACAGGAGCD---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

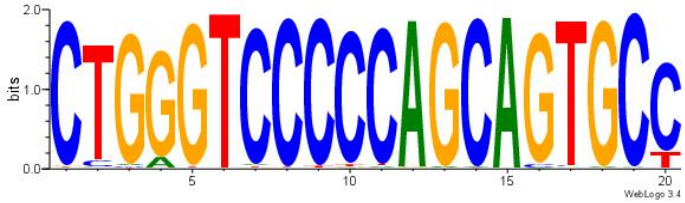

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

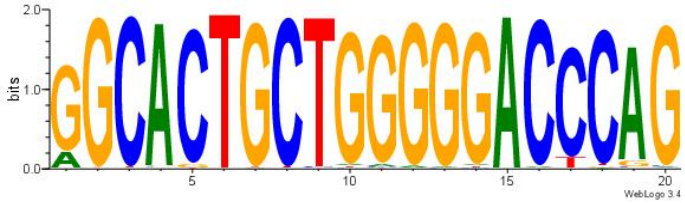

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0753884

Alignment:
GCTGGAGTGCAGTGGCRYGA
-GGGRSCACAGGAGCD----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

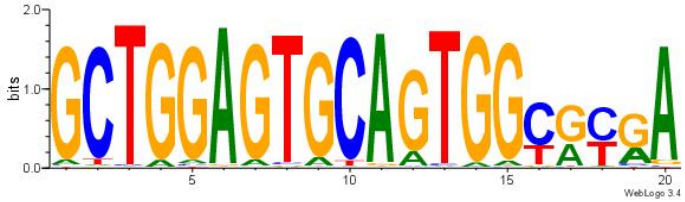

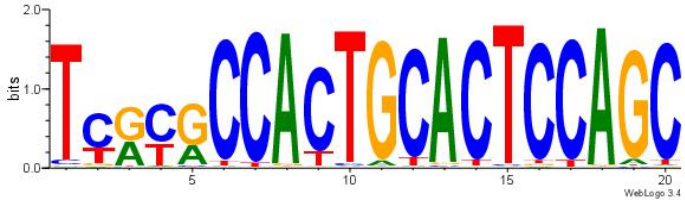

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.0800012

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GGGRSCACAGGAGCD-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

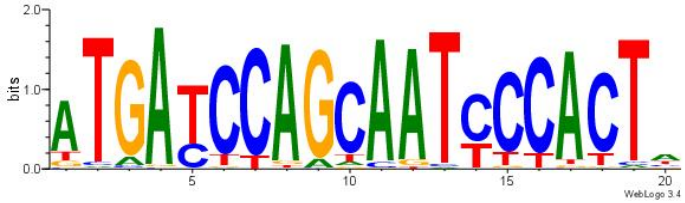

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

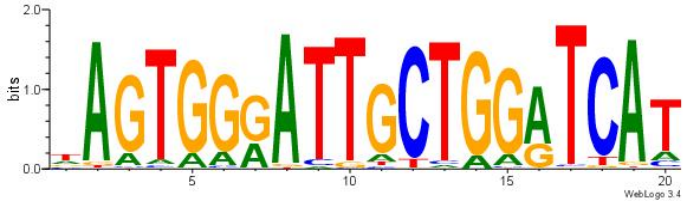

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.0803784

Alignment:

```
AGGTCCTTCAGGAGGTATTC
----GGGRSCACAGGAGCD-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

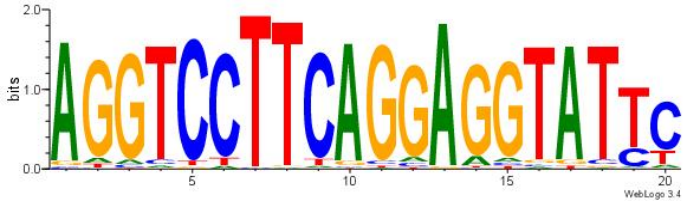

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

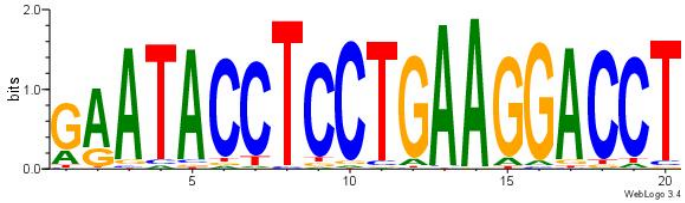

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.081264

Alignment:
GCTGGCCCKGGTGCTAAGC
GGGRSCACAGGAGCD----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

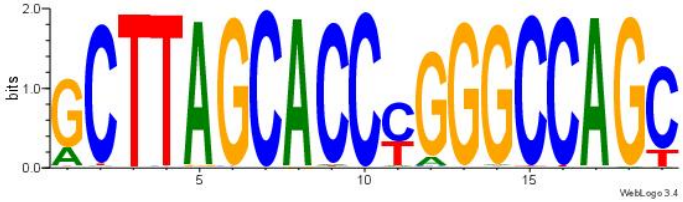

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

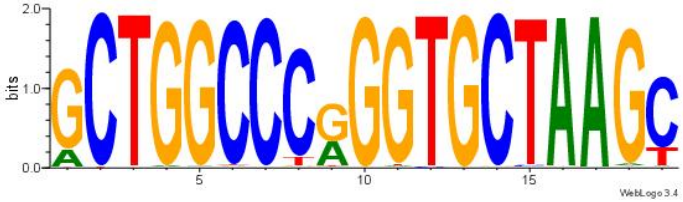

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.0819319

Alignment:
GCCKGGMKCMGTGGCTCAKG
---GGGRSCACAGGAGCD--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

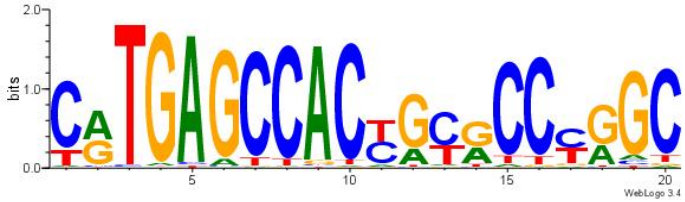

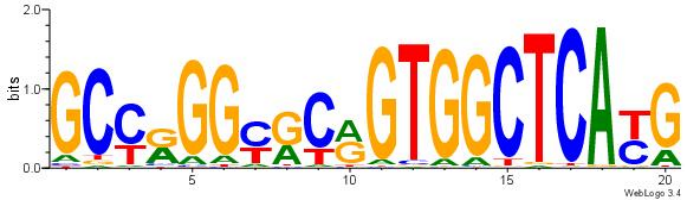

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.0822625

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
--GGGRSCACAGGAGCD---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

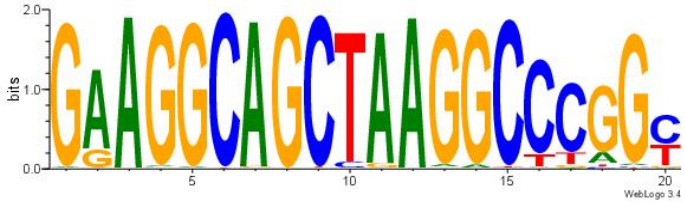

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

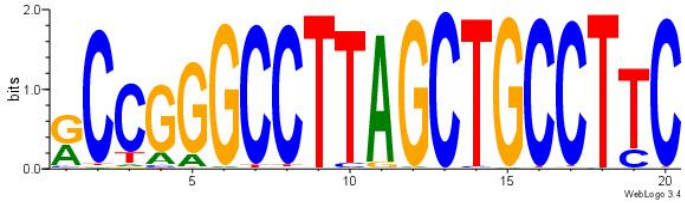

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0835216

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-GGGRSCACAGGAGCD----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

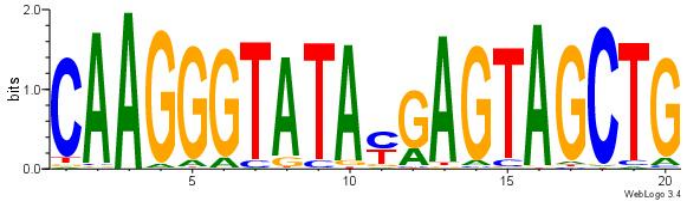

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

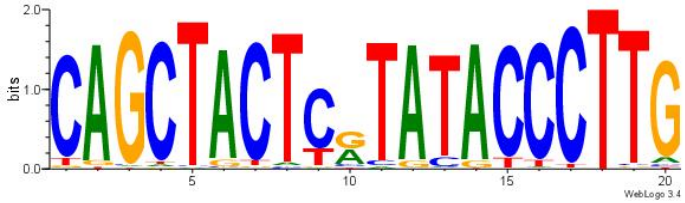

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.0840185

Alignment:
TTGTCCCACTGGAAGGTCTT
-GGGRSCACAGGAGCD----

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

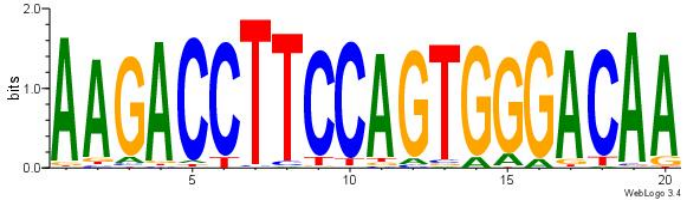

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

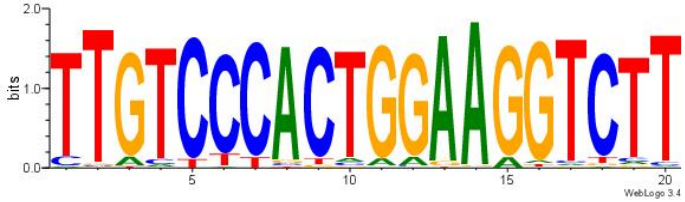

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.0841484

Alignment:
CGGCGCTGMGCTCGATTTCT
-----HGCTCCTGTGSKCCC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

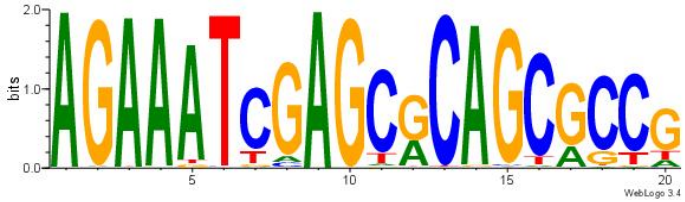

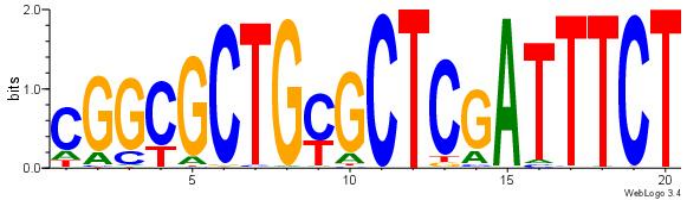

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0845737

Alignment:

```
GCGMGCGGGAACCGGGGCT
----GGGRSCACAGGAGCD
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

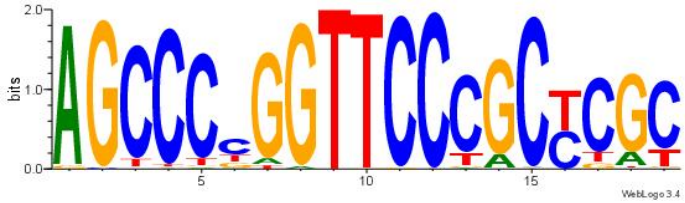

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

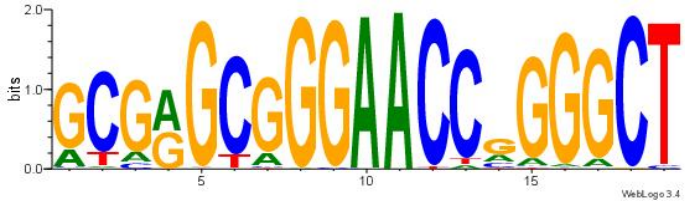

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.0851927

Alignment:

```
ACTCAGCCCRCCTGCACCC
----HGCTCCTGTGSKCCC
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

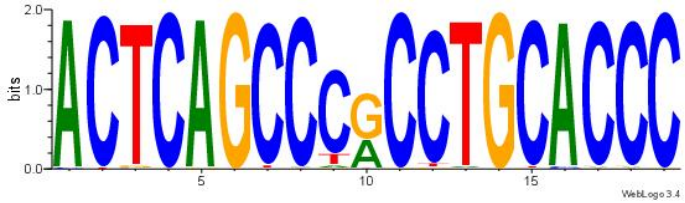

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

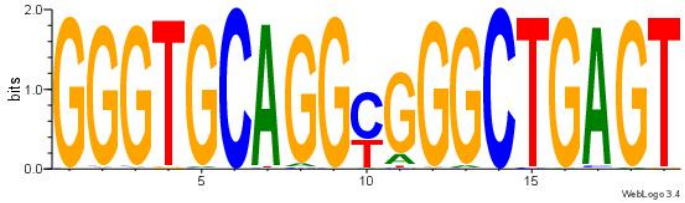

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.0862839

Alignment:
GGGAGGAAGGGGACAC
GGGRSCACAGGAGCD-

Original motif Consensus sequence: GGGAGGAAGGGGACAC

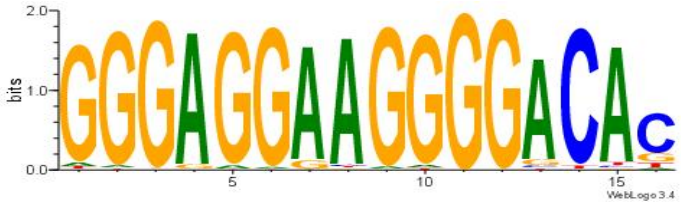

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

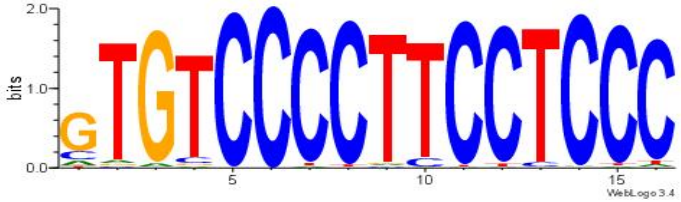

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.0866963

Alignment:
GCTGGCCCGCAAGCGCCGCG
---GGGRSCACAGGAGCD--

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

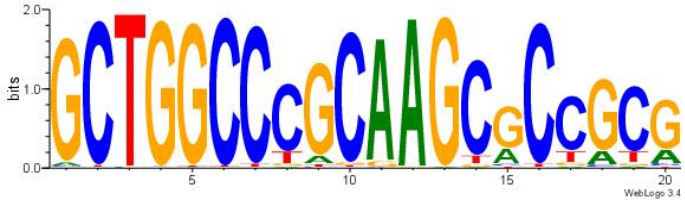

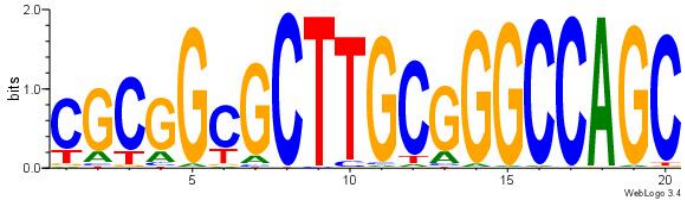

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0868413

Alignment:

GAGAACACATGGACA

GGGRSCACAGGAGCD

Original motif Consensus sequence: GAGAACACATGGACA

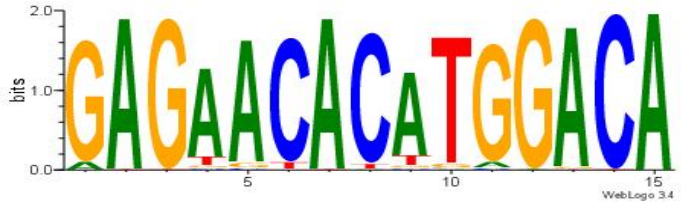

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

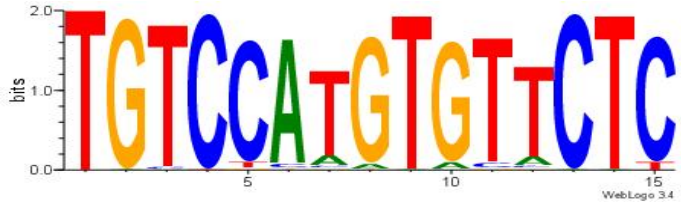

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0880206

Alignment:

```
CACCAGACTCAGGAGCCCAG
--GGGRSCACAGGAGCD---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

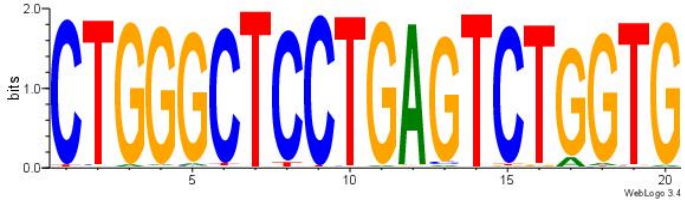

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

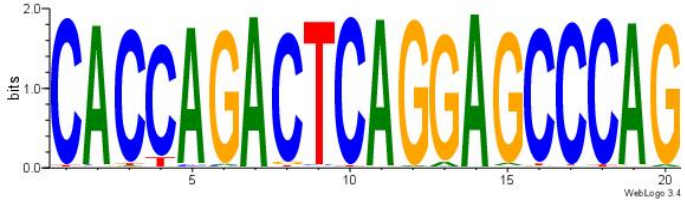

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0895034

Alignment:
AGGASCSTCYSWGCCMGGY
----GGGRSCACAGGAGCD

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

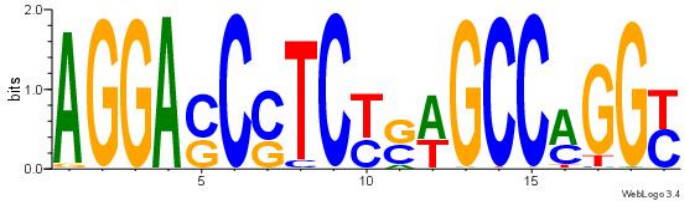

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

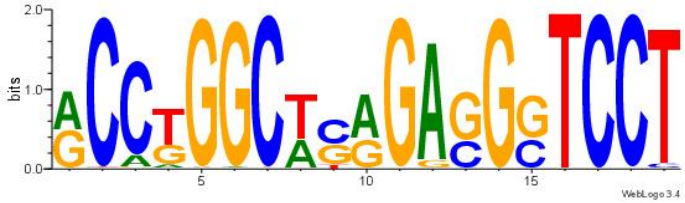

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0900092

Alignment:
GGTGCCCCTCTGGGACRAA
--HGCTCCTGTGSKCCC--

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

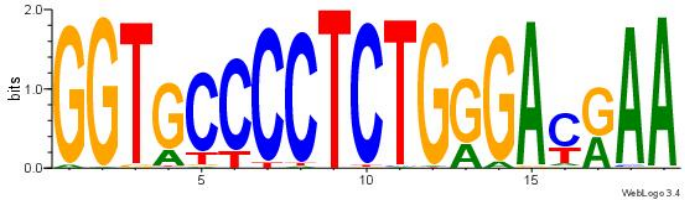

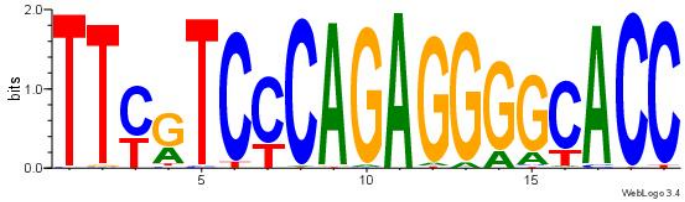

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0904793

Alignment:

```
VCCDCCTCCKCCTCCTC
--HGCTCCTGTGSKCCC
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

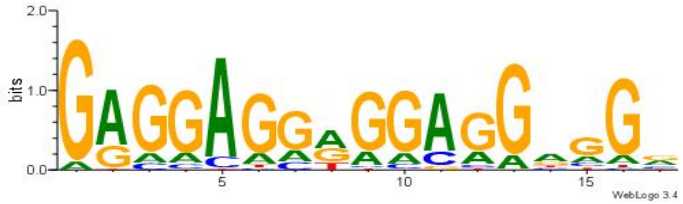

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

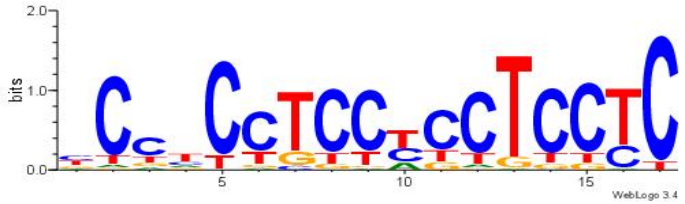

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0906698

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
---GGGRSCACAGGAGCD--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

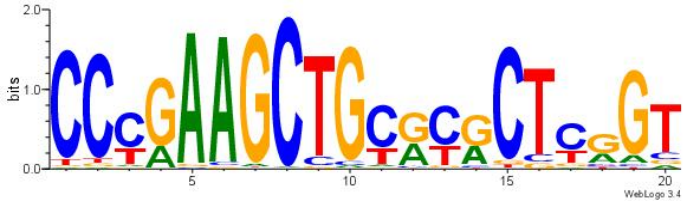

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

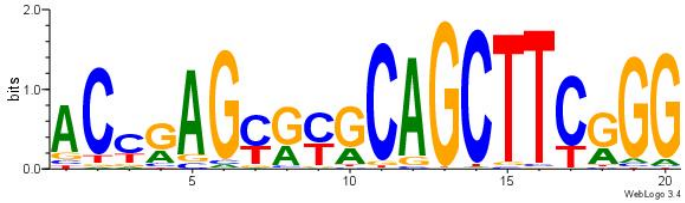

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.091065

Alignment:
TTGGTAGGATCCGTGATGCC
-----HGCTCCTGTGSKCCC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

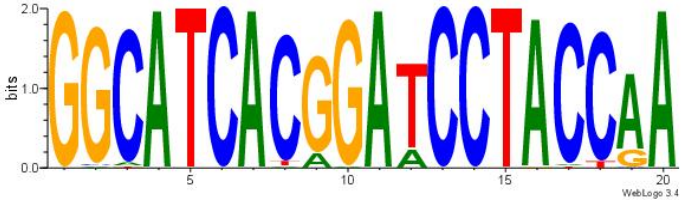

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

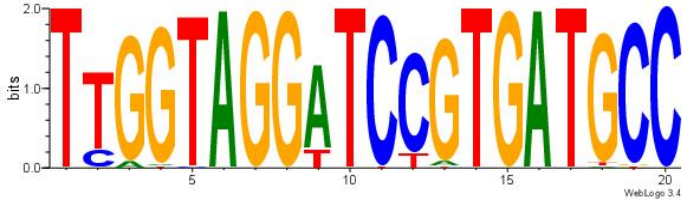

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.0912681

Alignment:
CTGAGGACCTGAGGTCRTA
---HGCTCCTGTGSKCCC-

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

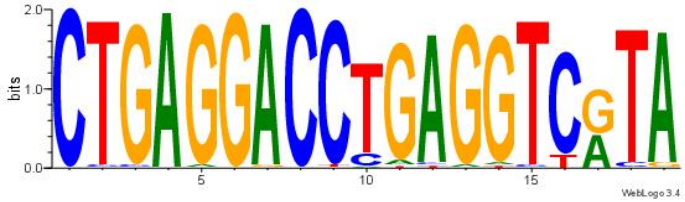

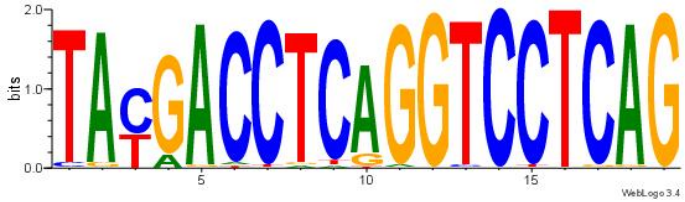

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0913227

Alignment:

```
AGGAGCGCCTCTKCCCGGC
---HGCTCCTGTGSKCCC-
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

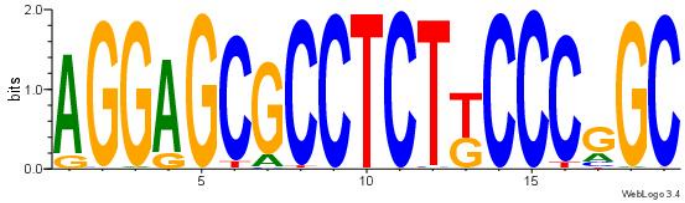

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

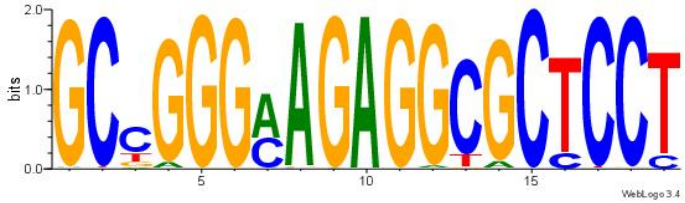

Dataset #: 1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0926489

Alignment:

```
KGCAACCTAGATCCCT
HGCTCCTGTGSKCCC-
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

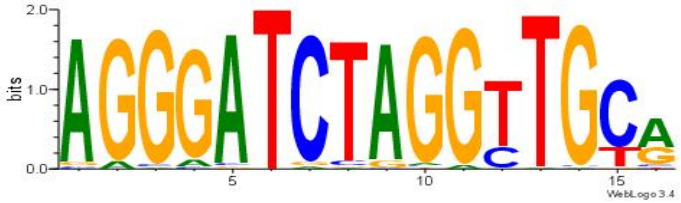

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

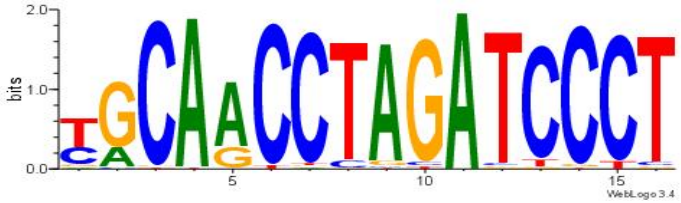

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15

Similarity score: 0.0935649

Alignment:
MGTCTMKCTCTGTKGCCCAG
HGCTCCTGTGSKCCC-----

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

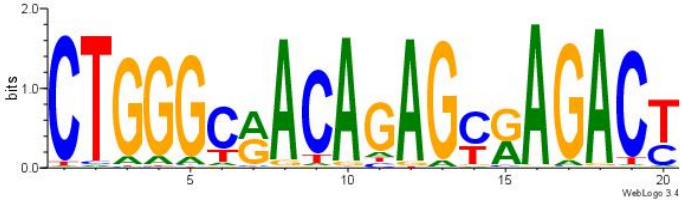

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

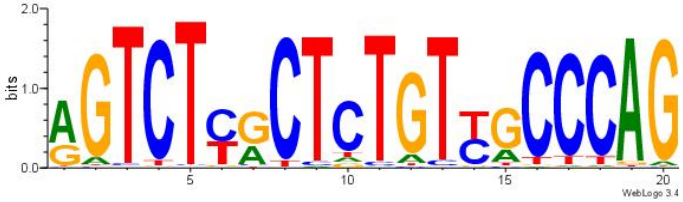

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0937113

Alignment:
KGGGCDGAGGGGCTCCT
HGCTCCTGTGSKCCC--

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

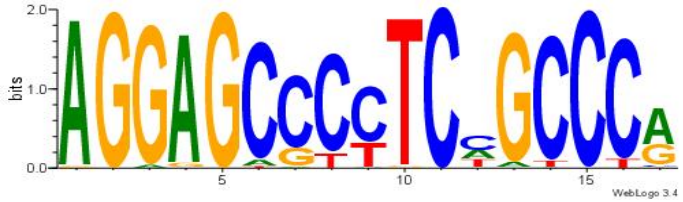

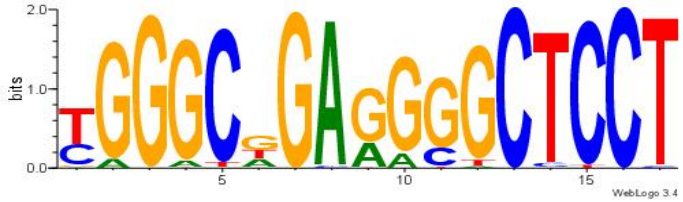

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.093913

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
----GGGRSCACAGGAGCD-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

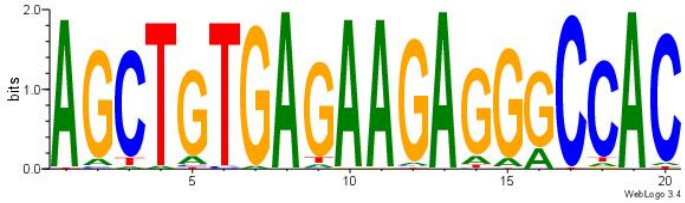

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

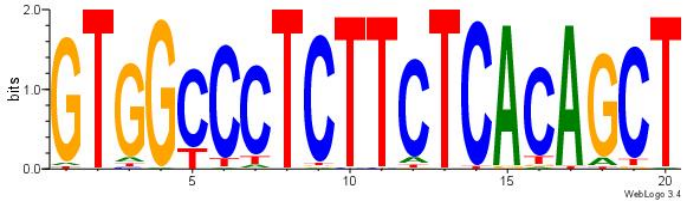

Dataset #:	1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0940989

Alignment:

```
GCTCTCAATTGGTCATT
-HGCTCCTGTGSKCCC-
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

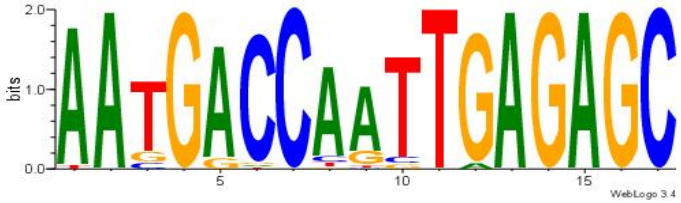

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

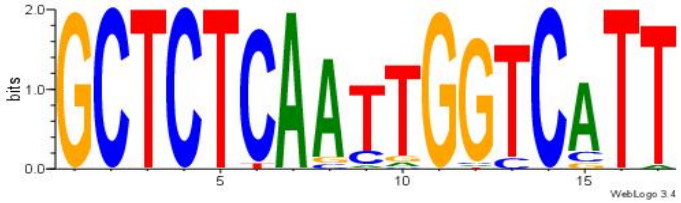

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15

Similarity score: 0.0946183

Alignment:
AGGCCCCAGTGTSTGTTGTT
-HGCTCCTGTGSKCCC----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

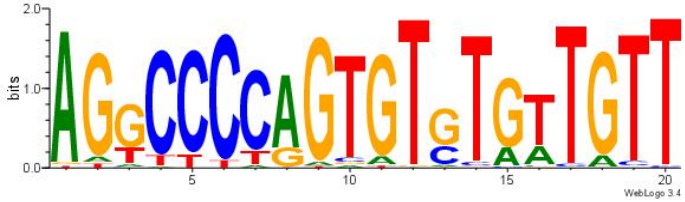

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

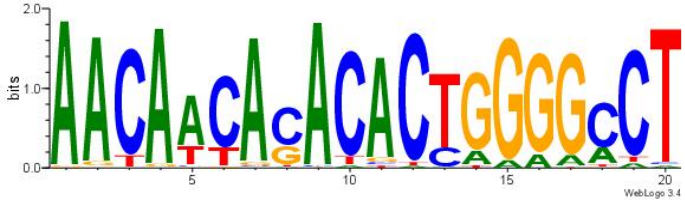

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.0969039

Alignment:
GGATCCACTGGGTGAAGCCA
-----GGGRSCACAGGAGCD

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

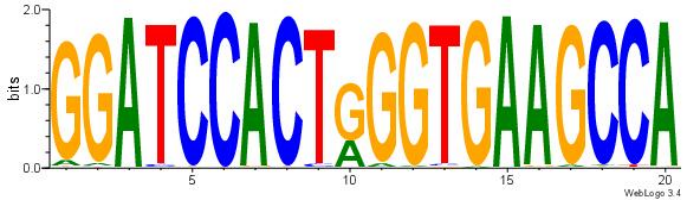

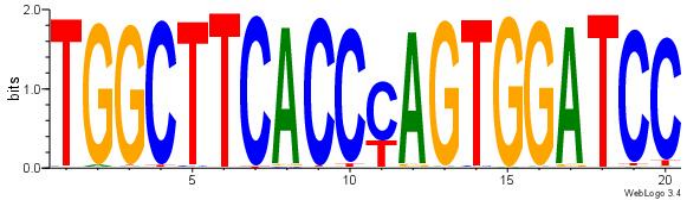

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0976146

Alignment:

```
AGCCYCTGGYAACCAYYAWT
HGCTCCTGTGSKCCC-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

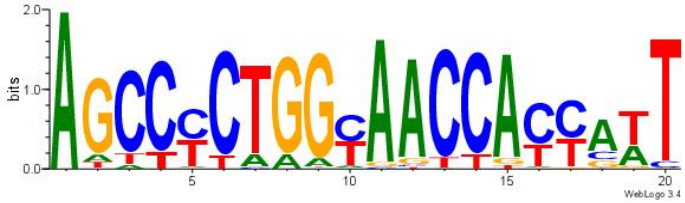

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

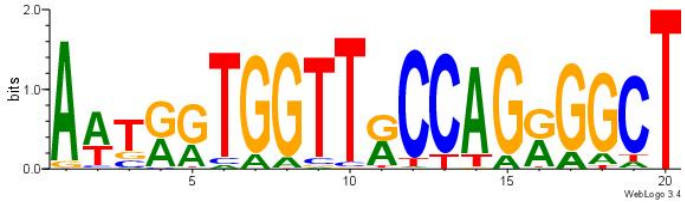

Dataset #:	1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0976799

Alignment:

```
GCAWSTGCAAAGGCCCT
--GGGRSCACAGGAGCD
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

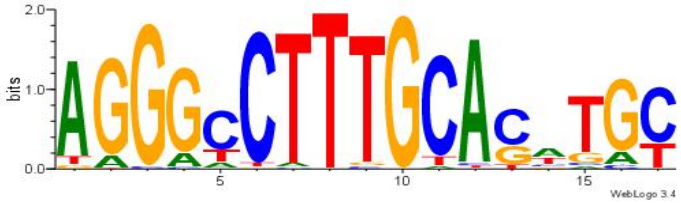

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

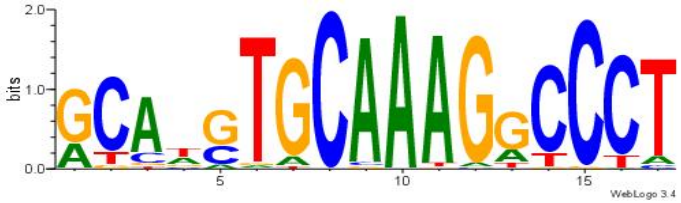

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.0990106

Alignment:
CATGGCGGGCTGCAGGTC
-GGGRSCACAGGAGCD--

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

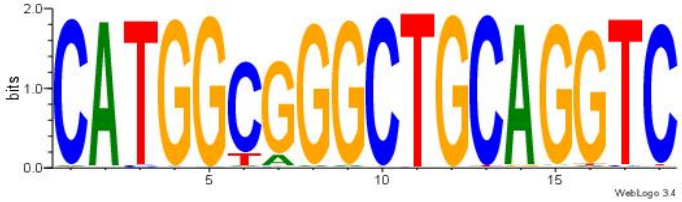

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

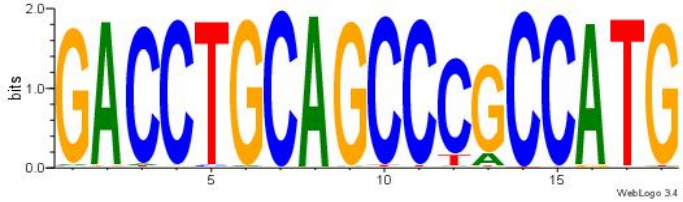

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0990952

Alignment:
CTCCTGCCTCAGCCTCCCRA
--HGCTCCTGTGSKCCC---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

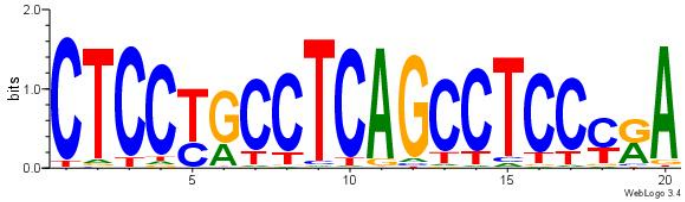

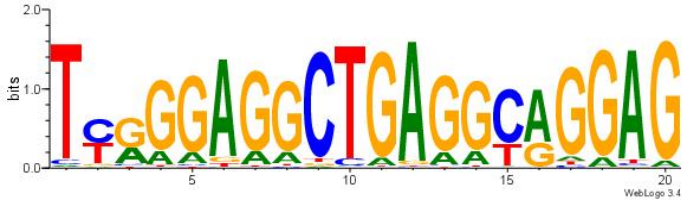

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0992342

Alignment:

```
GAAAGGGAACTCCCTGACCC
GGGRSCACAGGAGCD-----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

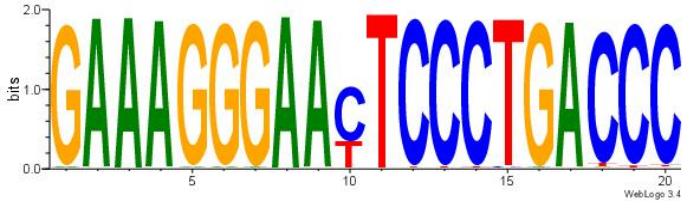

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

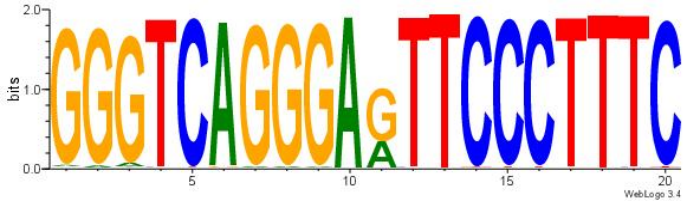

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0992676

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-GGGRSCACAGGAGCD----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

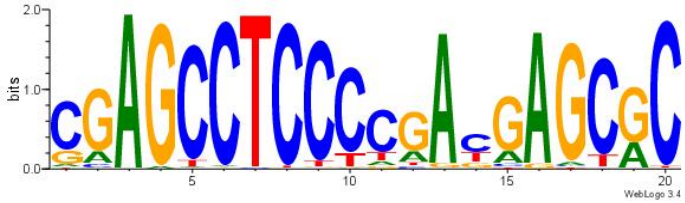

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

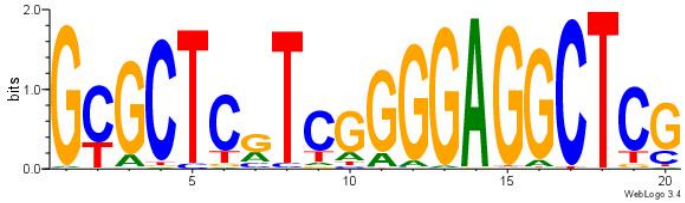

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15

Similarity score: 0.0992789

Alignment:
AGTGAGAACATRYRRTRTTT
----GGGRSCACAGGAGCD-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

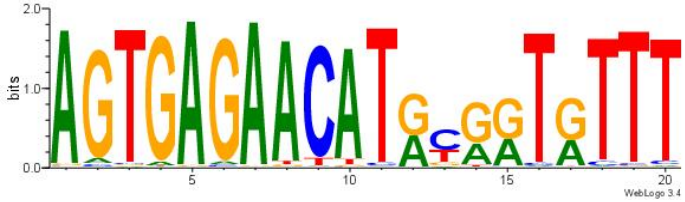

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

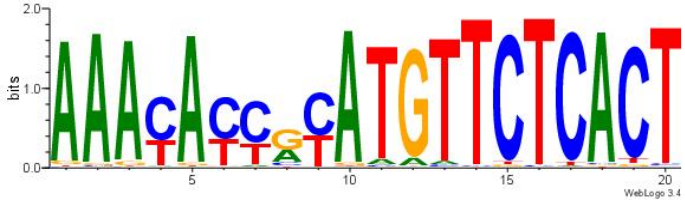

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.0996104

Alignment:
GGGCTCCCACAGTGCAGCGG
----HGCTCCTGTGSKCCC-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

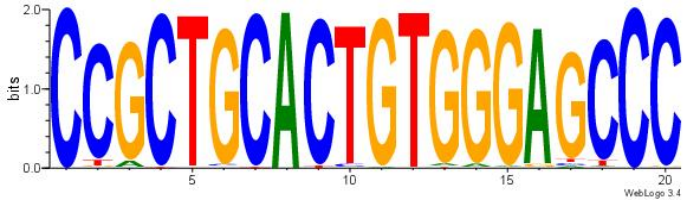

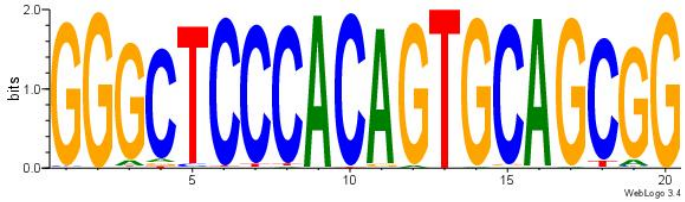

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.100043

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
-----GGGRSCACAGGAGCD
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

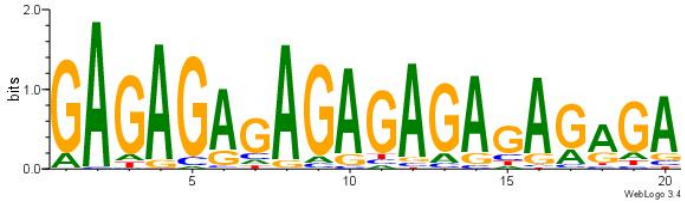

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

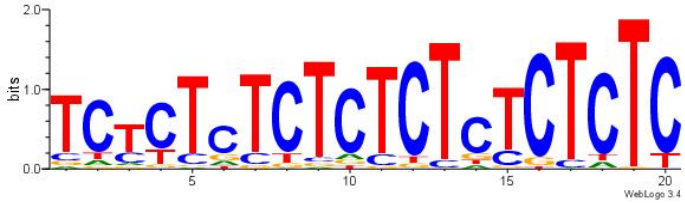

Dataset #: 1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.100193

Alignment:

```
ACGCCCACGGAGTCTC
-HGCTCCTGTGSKCCC
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

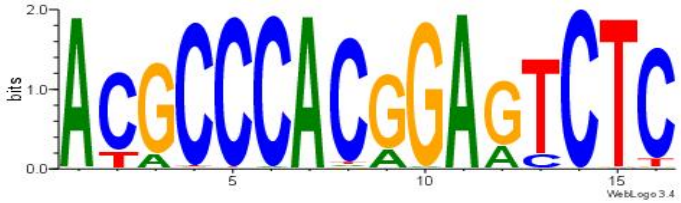

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

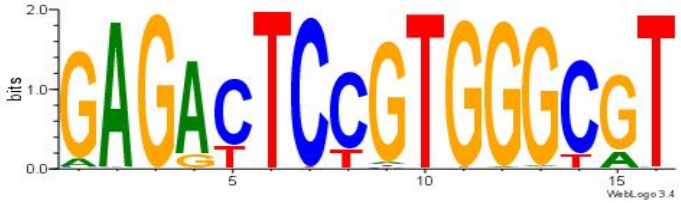

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15

Similarity score: 0.100325

Alignment:
GGTGGGGGGGTCAGCCCCC
----GGGRSCACAGGAGCD

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

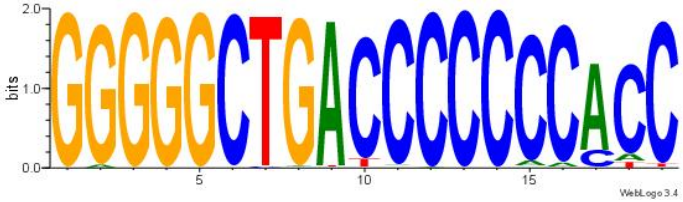

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

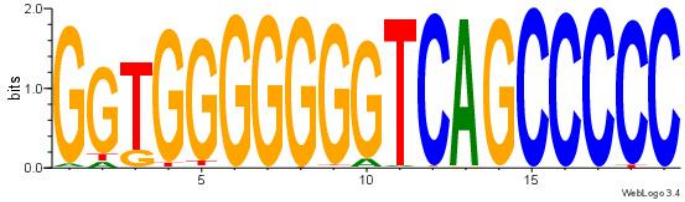

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.100451

Alignment:
CATTCTGGGGTCTGGAGGAY
----GGGRSCACAGGAGCD-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

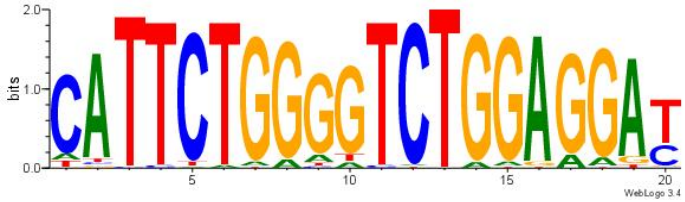

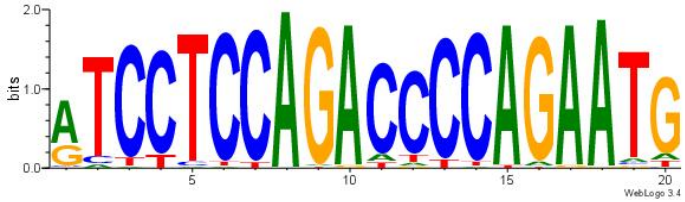

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.100712

Alignment:

```
GGCTGCGGAGGGTGTA
HGCTCCTGTGSKCCC-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

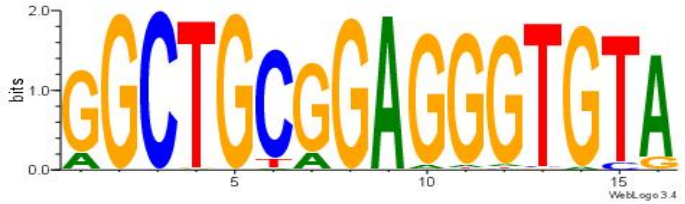

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

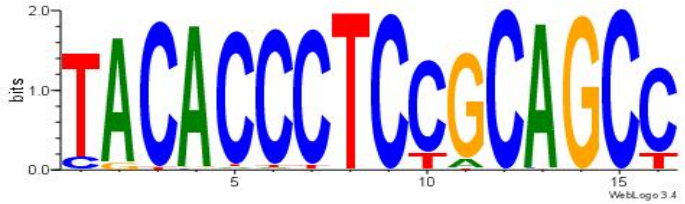

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.100949

Alignment:

```
AGTTCCGGGTGGGCGTGGG
HGCTCCTGTGSKCCC----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

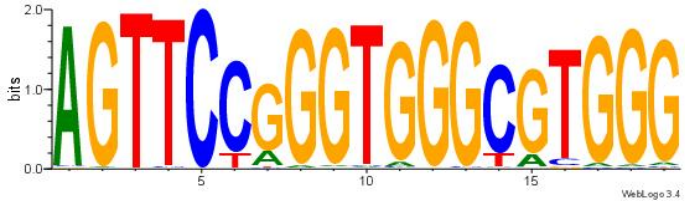

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

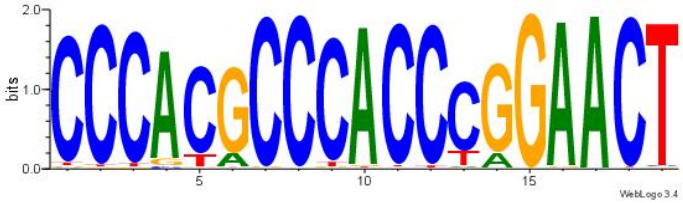

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15

Similarity score: 0.101316

Alignment:
CMTAGYACAGTGCCTGGCAC
GGGRSCACAGGAGCD-----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

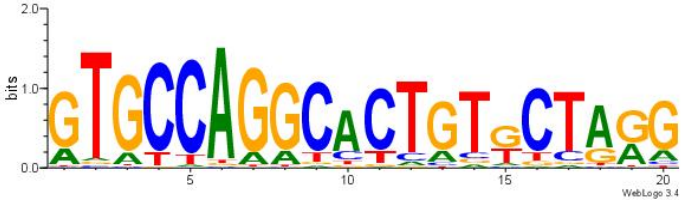

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

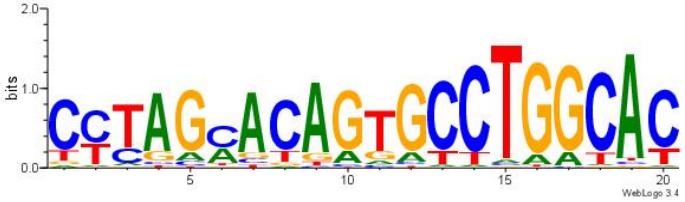

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.101889

Alignment:
ACAGGCTGTCCCAGGATTC
----GGGRSCACAGGAGCD

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

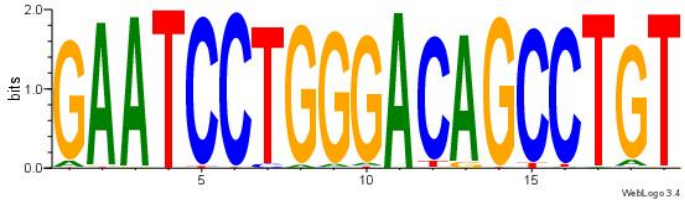

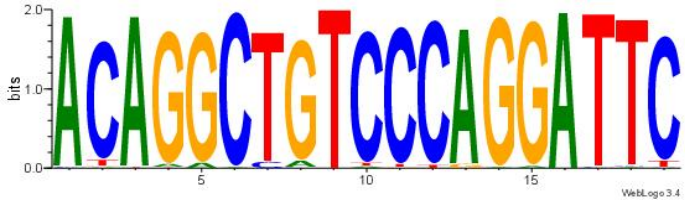

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.101975

Alignment:

```
GCTGTGTGACCTTGGGCAAG
--GGGRSCACAGGAGCD---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

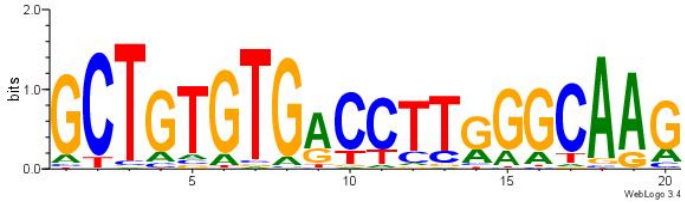

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

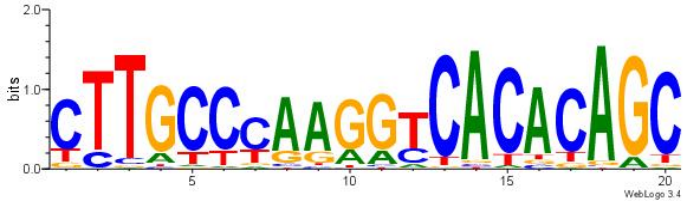

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.103556

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GGGRSCACAGGAGCD-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

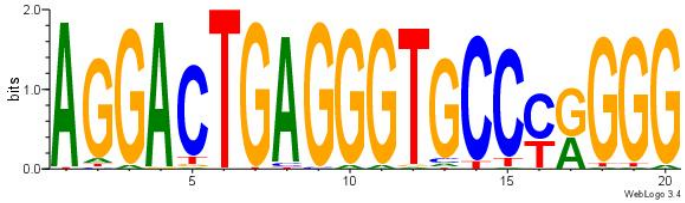

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

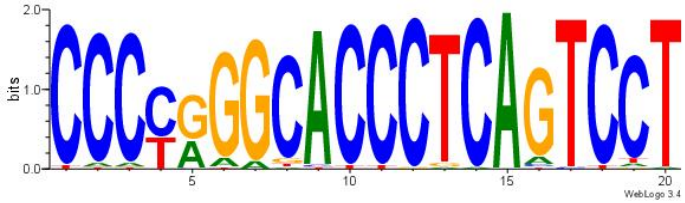

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15

Similarity score: 0.103568

Alignment:
TCCCTCCCGGACGGGGYGGC
-HGCTCCTGTGSKCCC----

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

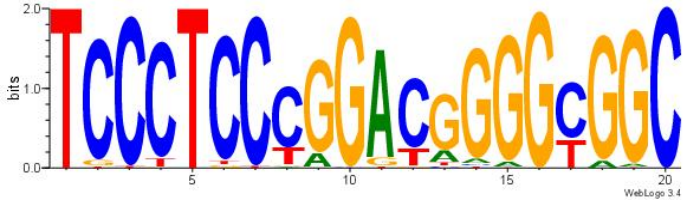

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

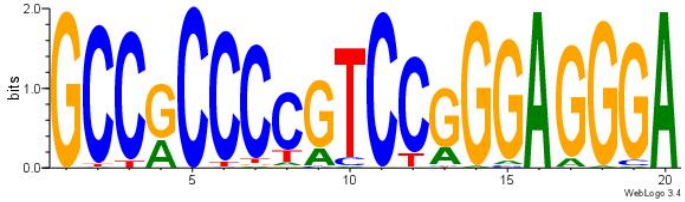

Dataset #: 1 Motif ID: 216 Motif name: Motif 216

Original motif Consensus sequence: CAGAAATCACC

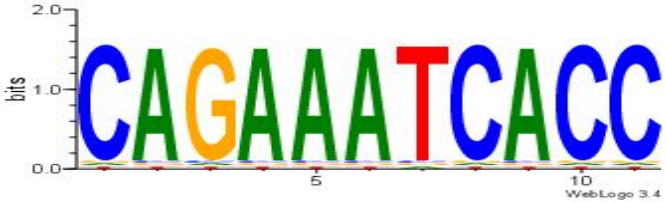

Reverse complement motif Consensus sequence: GGTGATTTCTG

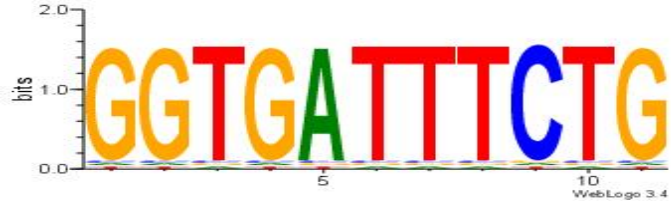

Best Matches for Motif ID 216 (Highest to Lowest)

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0137887

Alignment:

```
CAGAAATCACCCGTCTT
CAGAAATCACC------
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

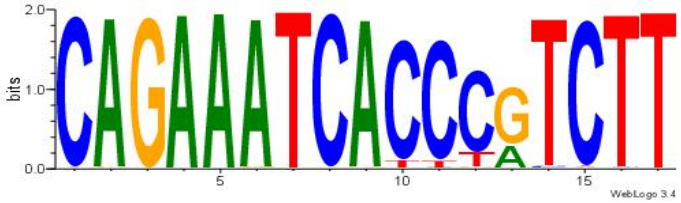

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

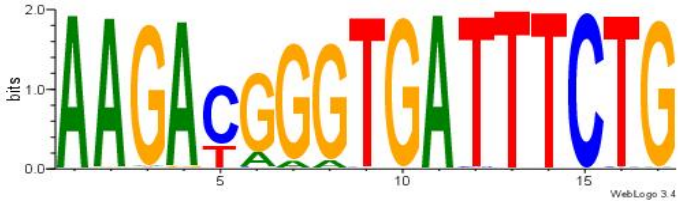

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0239476

Alignment:

```
TAGTGGTGATTTSTGAGAT
----GGTGATTTCTG----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

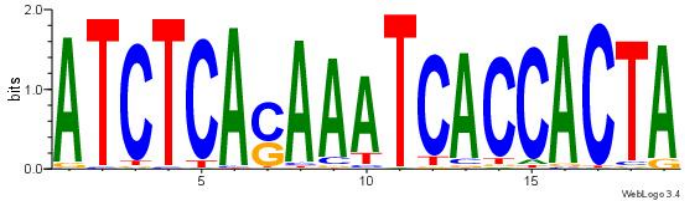

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

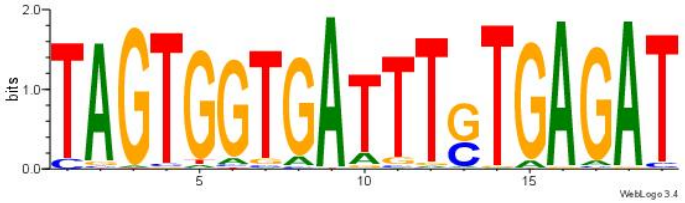

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0684419

Alignment:

```
CAGGTGGTKTTTGGTTACAT
--GGTGATTTCTG-------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

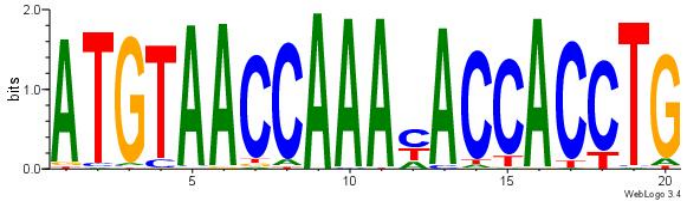

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

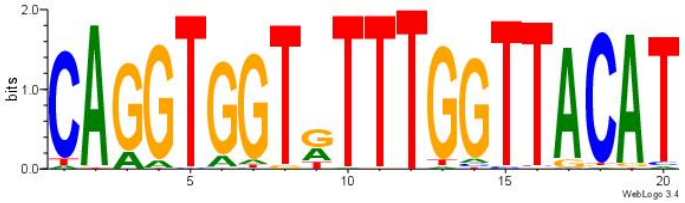

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0740976

Alignment:

```
HAGTGGKATTGCTGGATCAT
---GGTGATTTCTG------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

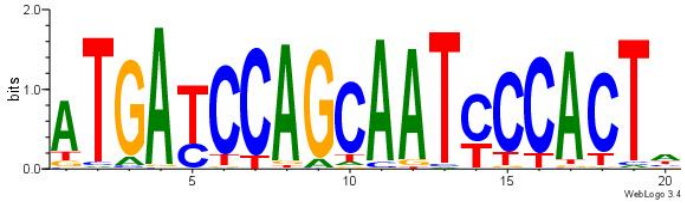

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

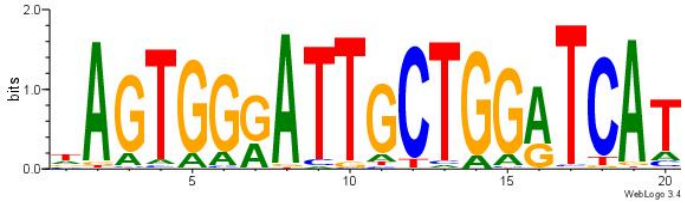

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 11
Similarity score: 0.0743914

Alignment:
MGTGTGATGTCTCCCCC
--GGTGATTTCTG----

Original motif Consensus sequence: GGGGGAGACATCACACR

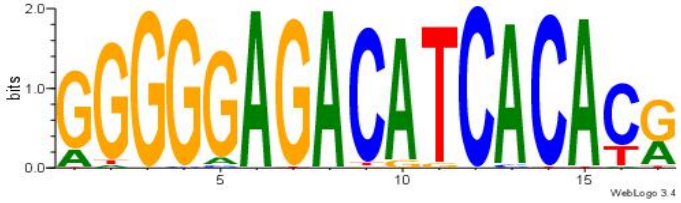

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

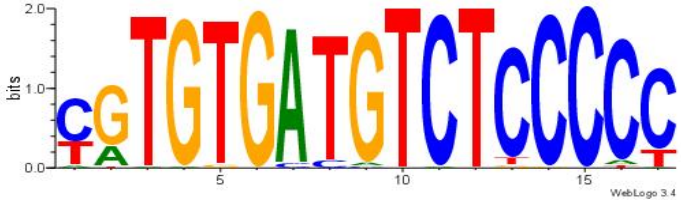

Dataset #: 1
Motif ID: 249
Motif name: Motif 249
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0751172

Alignment:
TGTGAAGAGACCACCAA
----CAGAAATCACC--

Original motif Consensus sequence: TGTGAAGAGACCACCAA

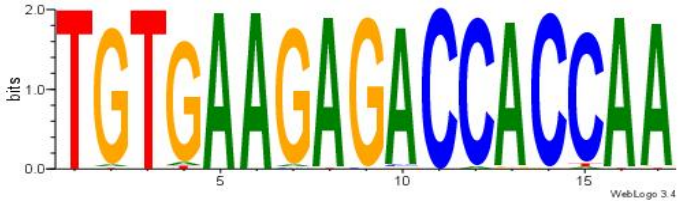

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

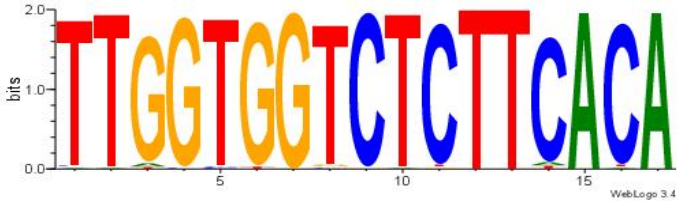

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0870916

Alignment:

```
GCTGGGATTACAGG
-GGTGATTTCTG--
```

Original motif Consensus sequence: GCTGGGATTACAGG

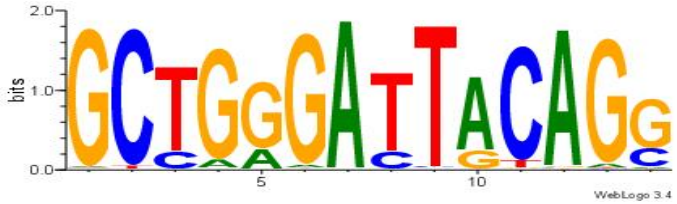

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0875035

Alignment:

```
GAAACTGCTTTGTGATGTGT
---GGTGATTTCTG------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

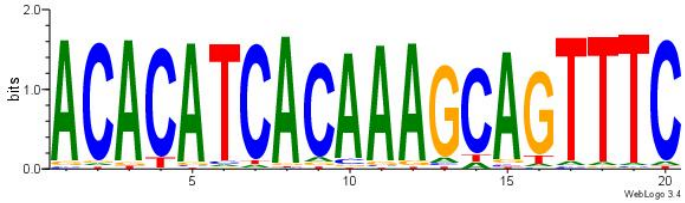

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

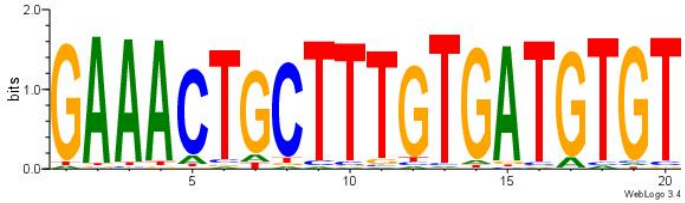

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 11
Similarity score: 0.0899281

Alignment:
GCTGGCCCGCAAGCGCCGCG
------CAGAAATCACC---

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

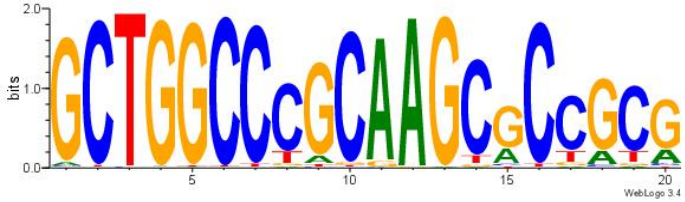

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

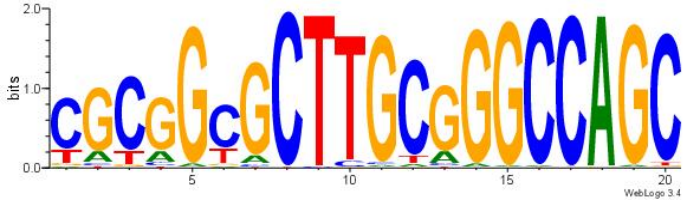

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0908054

Alignment:
TCCAAATGGGAGAAATTGGC
---------CAGAAATCACC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

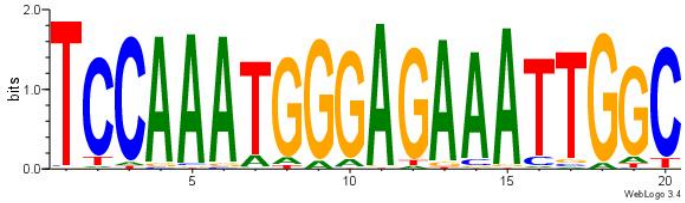

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

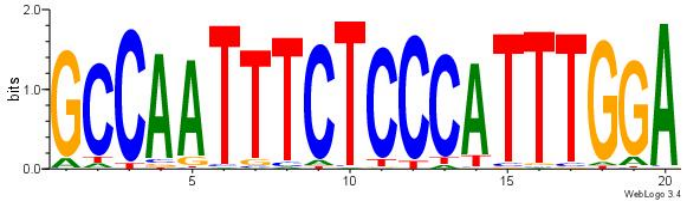

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0916764

Alignment:

```
TGTTATGCCTGAAAGT
GGTGATTTCTG-----
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

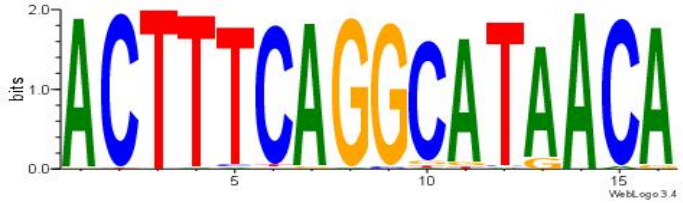

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

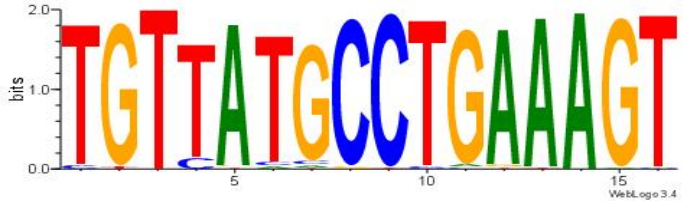

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0917536

Alignment:

```
GTCCCATCGACCACCCAAG
----CAGAAATCACC----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

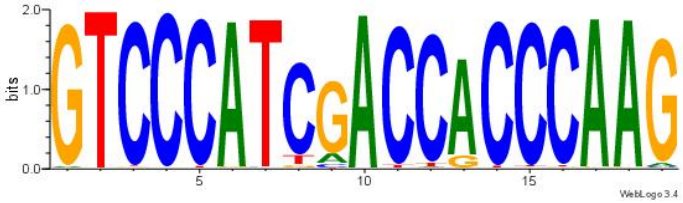

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

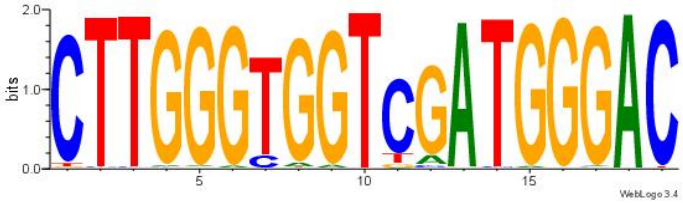

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 11
Similarity score: 0.0930668

Alignment:
ACAGCTGGCACC
-CAGAAATCACC

Original motif Consensus sequence: ACAGCTGGCACC

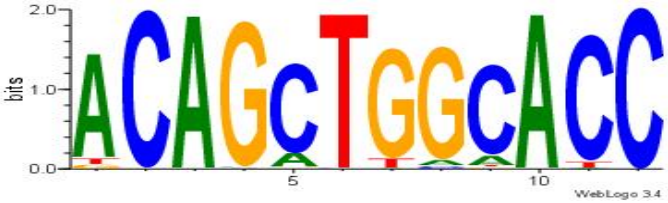

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

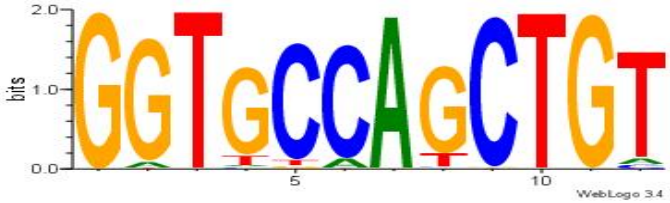

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.0932533

Alignment:
CTGACTGGGAGACACCTCCC
--------CAGAAATCACC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

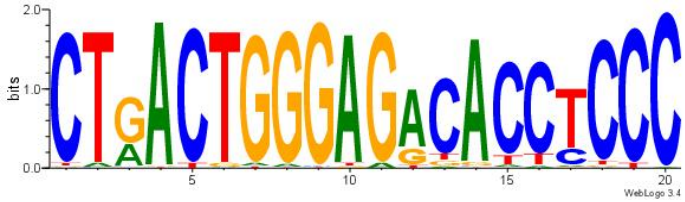

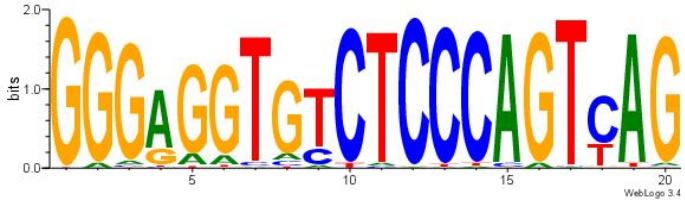

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0938306

Alignment:

```
ATTCAASATGAGATTTGGG
--------GGTGATTTCTG
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

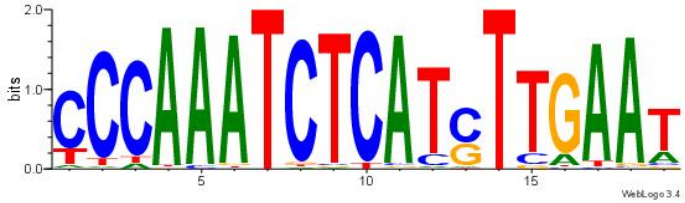

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

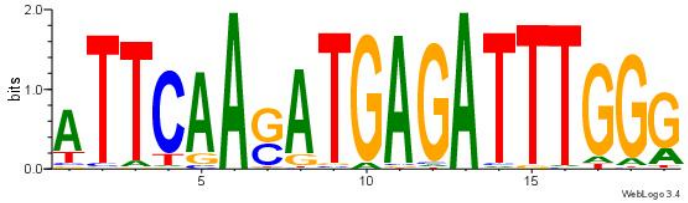

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0940037

Alignment:

```
ACATCMTCTGAAATCTAGG
-------CAGAAATCACC-
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

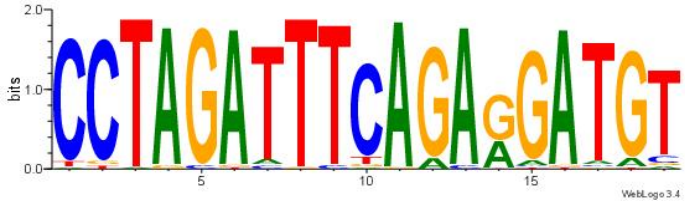

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

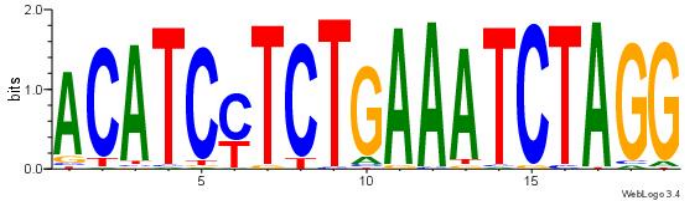

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.094283

Alignment:
GGTGGAGCTGCCTGCCAGTC
---GGTGATTTCTG------

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

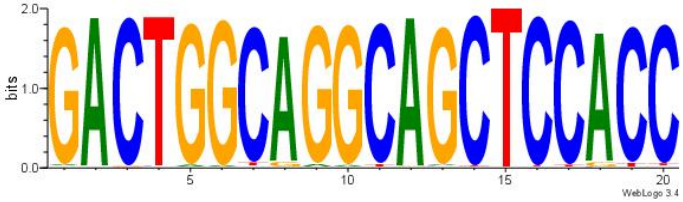

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

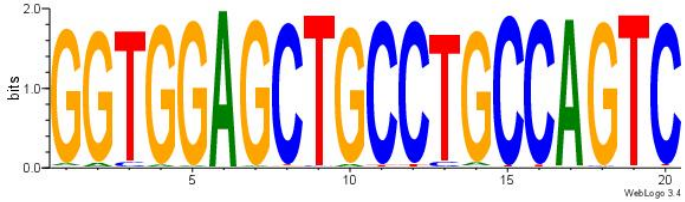

Dataset #: 1
Motif ID: 316
Motif name: Motif 316
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0945227

Alignment:
CGGAAGTGACGT
CAGAAATCACC-

Original motif Consensus sequence: CGGAAGTGACGT

Reverse complement motif Consensus sequence: ACGTCACTTCCG

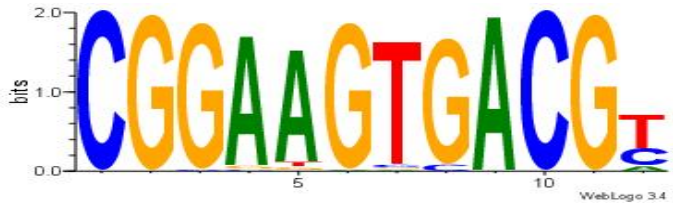

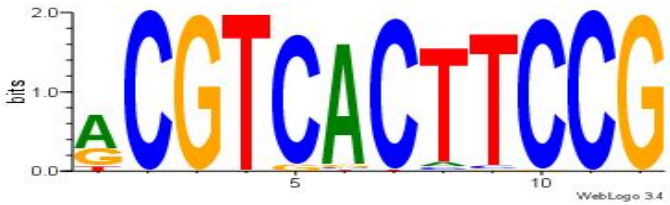

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0956353

Alignment:

```
CTATTGTGAATARTGCTGC
----GGTGATTTCTG----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

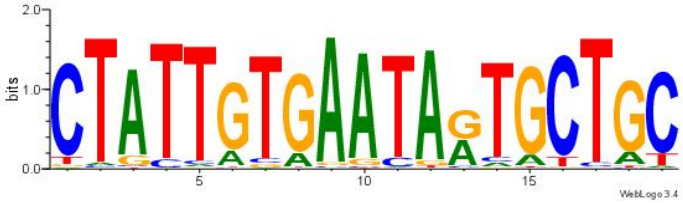

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

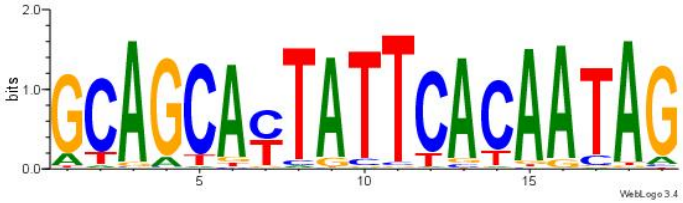

Dataset #: 1

Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0958658

Alignment:

```
GGTGGGAGAAATACCT
CAGAAATCACC-----
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

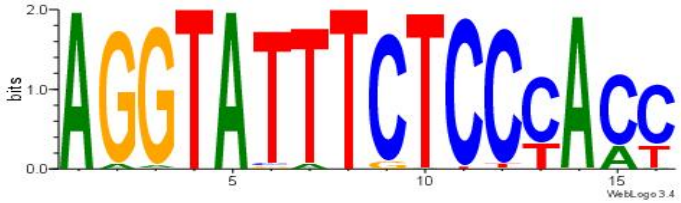

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

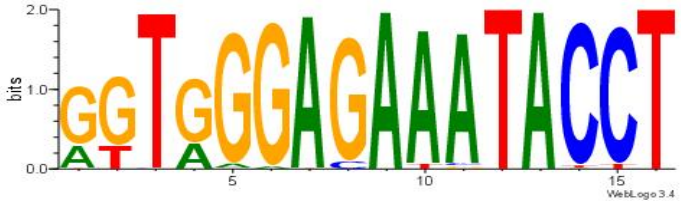

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0971057

Alignment:
GGGGTGATGGACG
--GGTGATTTCTG

Original motif Consensus sequence: CGTCCATCACCCC

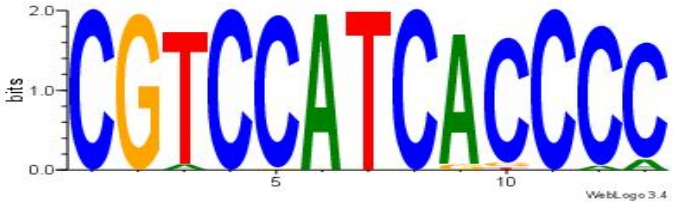

Reverse complement motif Consensus sequence: GGGGTGATGGACG

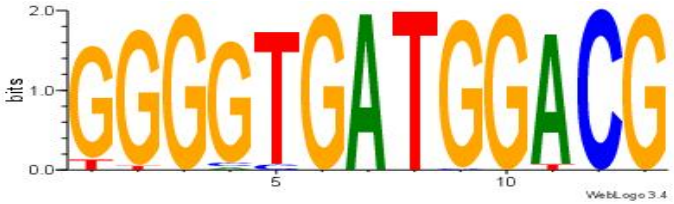

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.098457

Alignment:
AWTKKTGGTTKCCAGKGGCT
---GGTGATTTCTG------

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

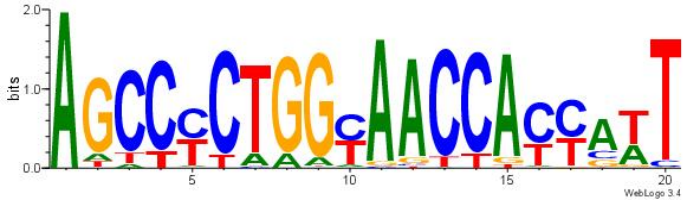

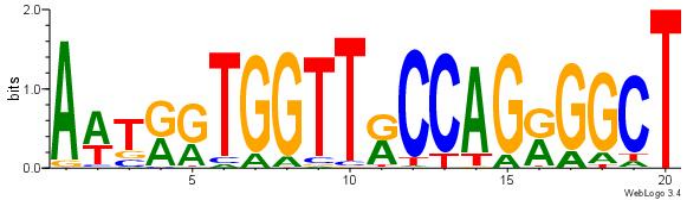

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0996266

Alignment:

```
GTAACACTCACCGCGARGGT
-CAGAAATCACC--------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

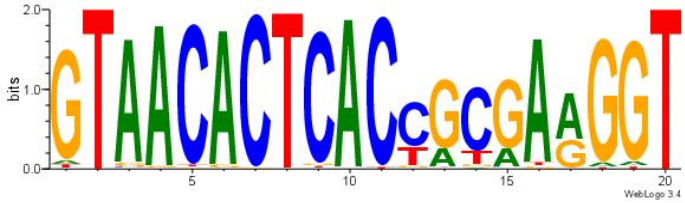

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

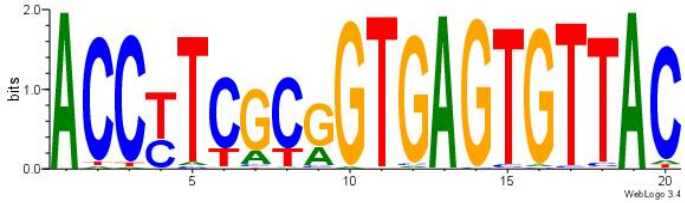

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.102494

Alignment:

```
AAGTTCTKGGKTACATGTGC
--------GGTGATTTCTG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

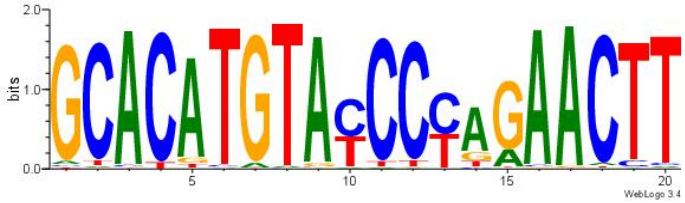

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

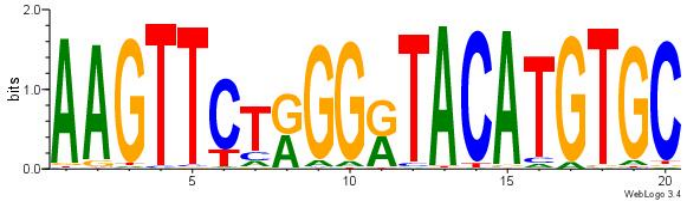

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.103108

Alignment:
CTCRAATGTCCCTT
---CAGAAATCACC

Original motif Consensus sequence: AAGGGACATTKGAG

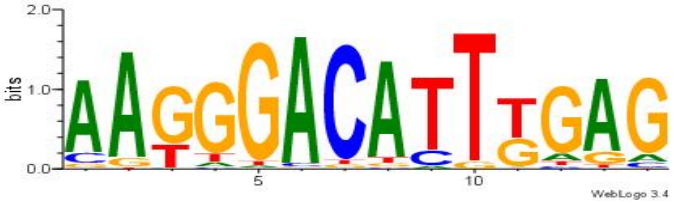

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

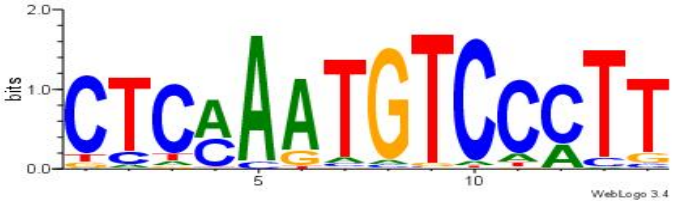

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.103306

Alignment:
CAGACTGCCTCCTCAA
CAGAAATCACC-----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

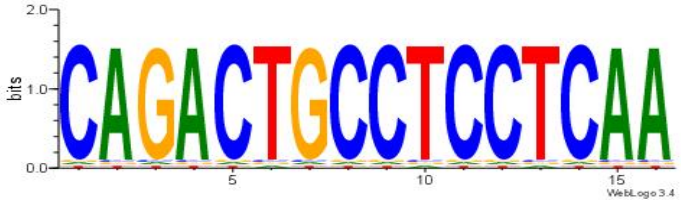

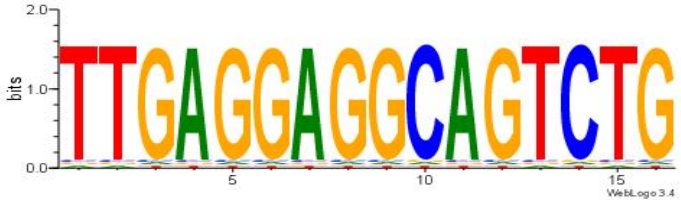

Dataset #:	1
Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.103306

Alignment:

```
CTGGGATTACA
CAGAAATCACC
```

Original motif Consensus sequence: CTGGGATTACA

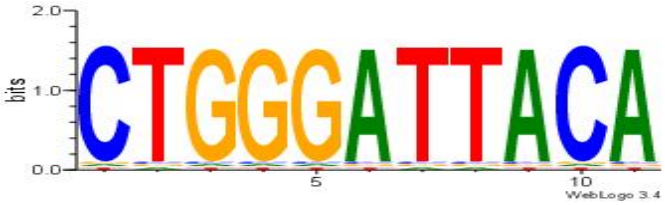

Reverse complement motif Consensus sequence: TGTAATCCCAG

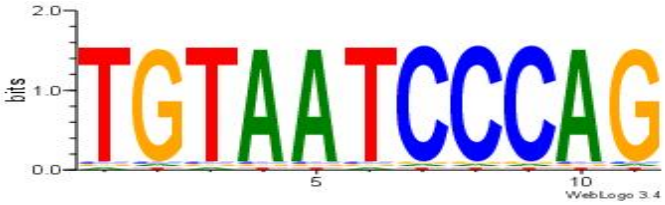

Dataset #:	1
Motif ID:	191

Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.104712

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-GGTGATTTCTG-------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

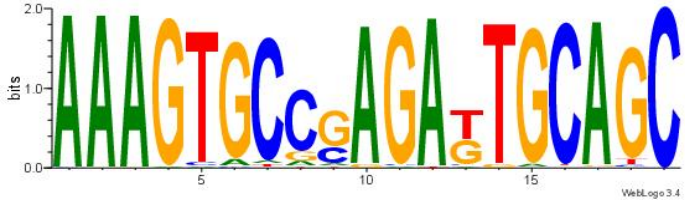

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

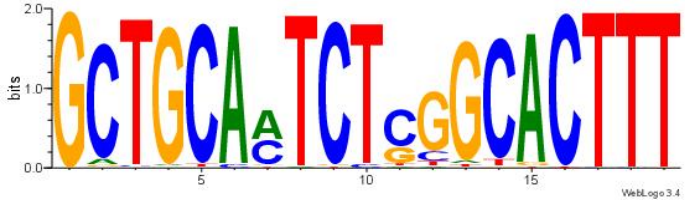

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.105052

Alignment:
ATGGACAYTTRGGTTGHTTC
-------GGTGATTTCTG--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

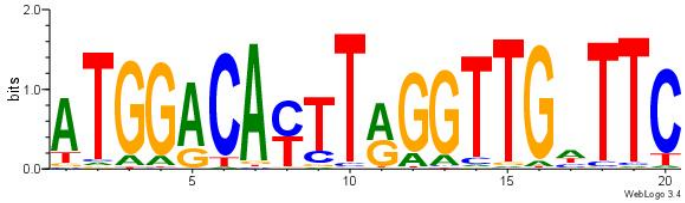

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

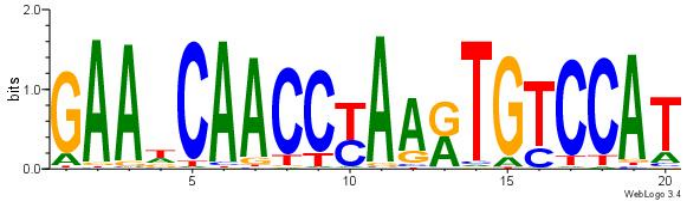

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.10573

Alignment:
AACCCTATTGTGAACTGYG
--------GGTGATTTCTG

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

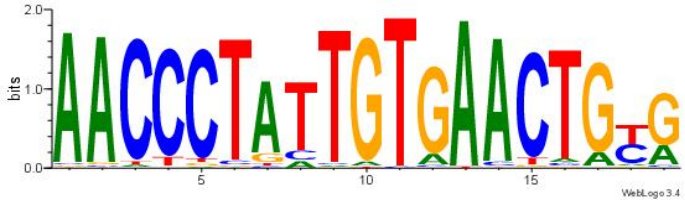

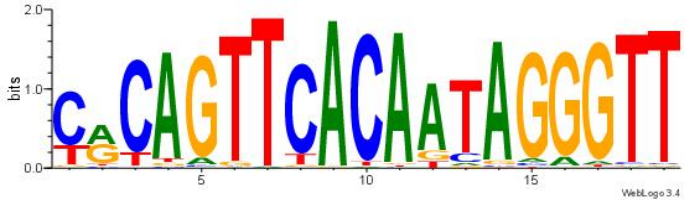

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.106302

Alignment:

```
GATACAAAATCAATGTR
---CAGAAATCACC---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

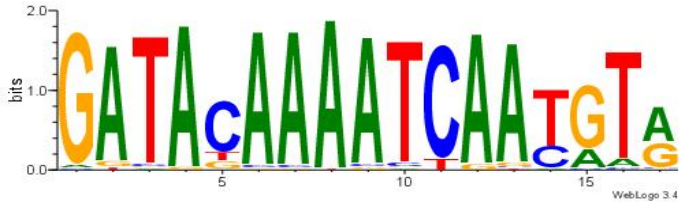

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

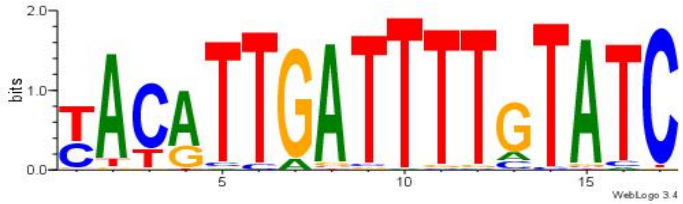

Dataset #:	1

Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.106386

Alignment:

```
CCAAGGTCACA
CAGAAATCACC
```

Original motif Consensus sequence: CCAAGGTCACA

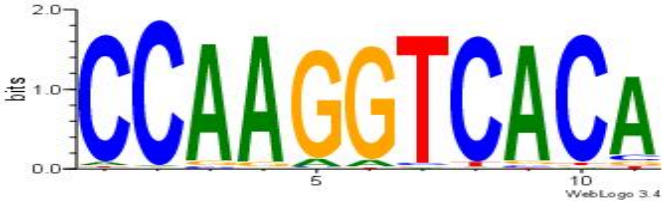

Reverse complement motif Consensus sequence: TGTGACCTTGG

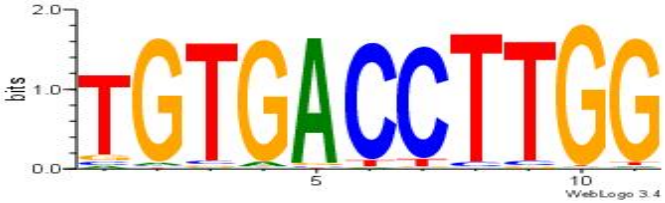

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.106404

Alignment:
BCVTCTGTCACCCC
--CAGAAATCACC-

Original motif Consensus sequence: GGGGTGACAGABGB

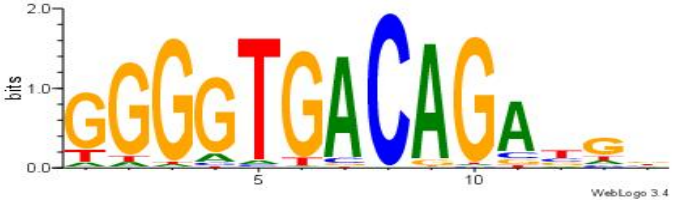

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

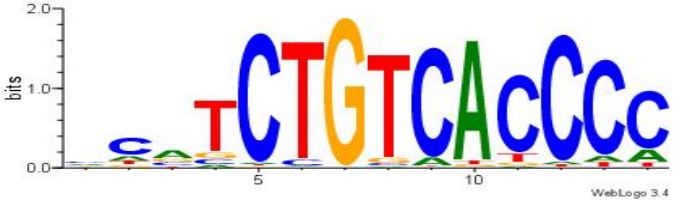

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.106619

Alignment:
CCCTGCTAGAACCTCCAA
-----CAGAAATCACC--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

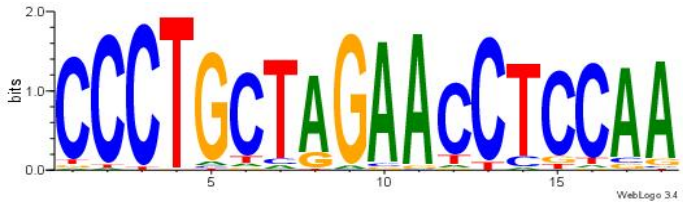

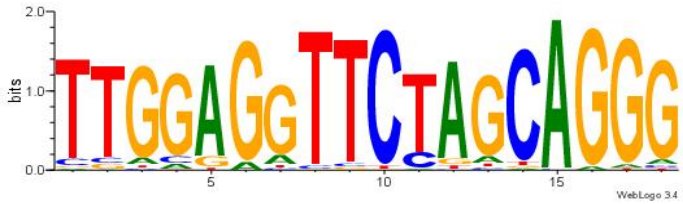

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.107312

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--GGTGATTTCTG-------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

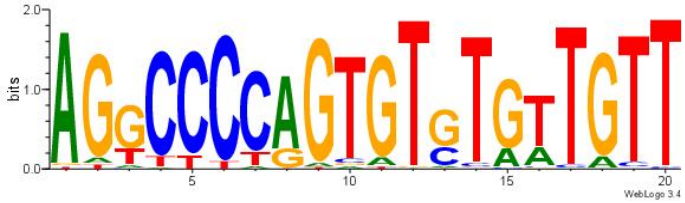

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

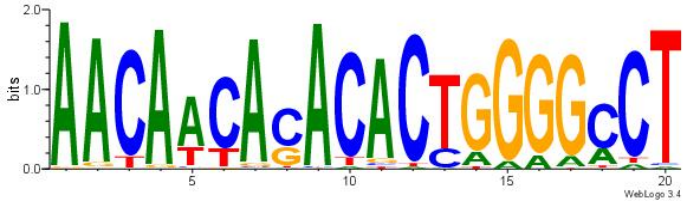

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.108114

Alignment:

```
GCCAGTCACAAAARGACAMA
------CAGAAATCACC---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

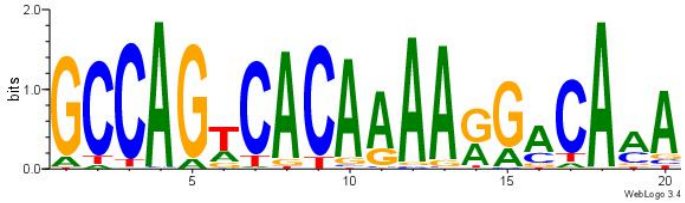

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

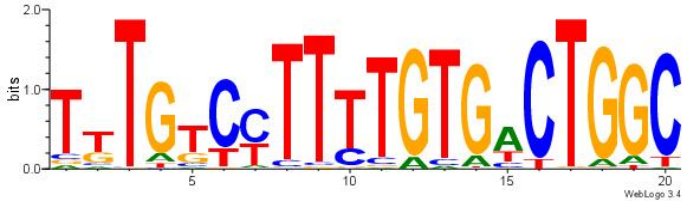

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.10813

Alignment:
AAGCAGGGCGAGGCATTGCC
---------CAGAAATCACC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

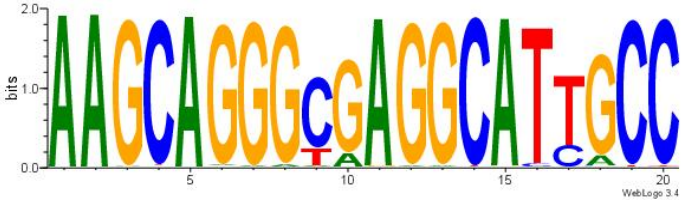

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

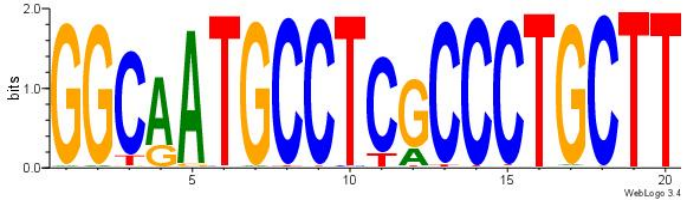

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.108311

Alignment:
CCCGAAGCTGCRYRCTCGGT
---GGTGATTTCTG------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

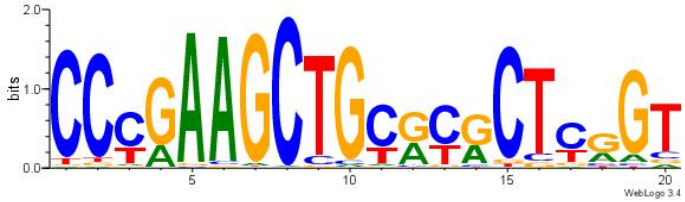

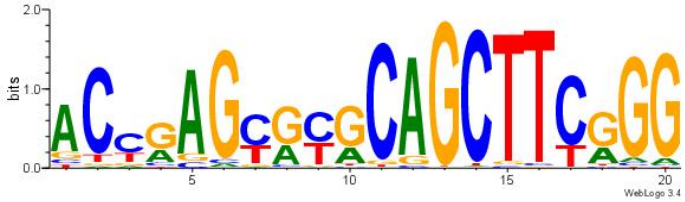

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.10913

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-----GGTGATTTCTG----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

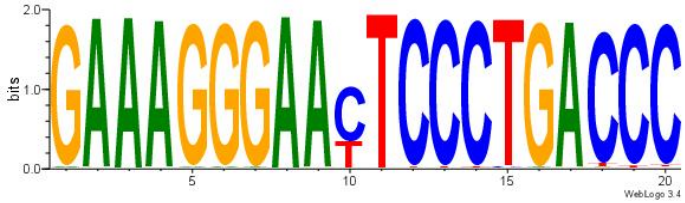

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

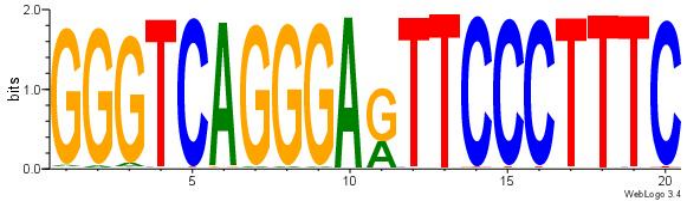

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.109541

Alignment:

```
CTTGCCCAAGGTCACACAGC
----CAGAAATCACC-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

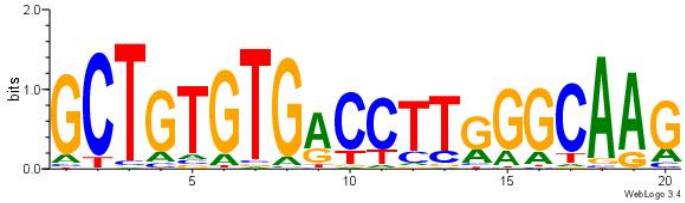

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

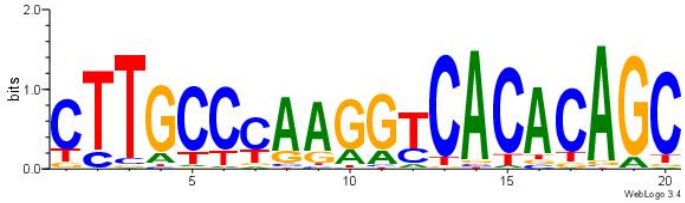

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.109557

Alignment:
AGGTCCTTCAGGAGGTATTC
--------GGTGATTTCTG-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

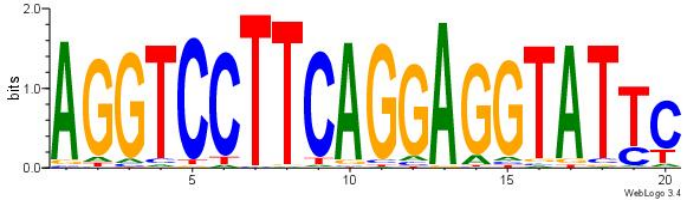

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

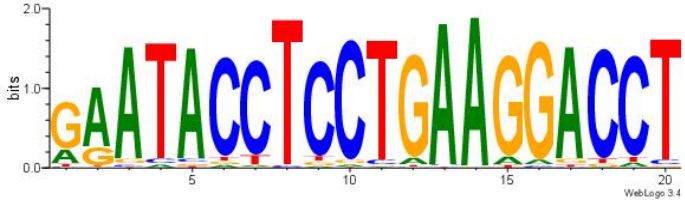

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.110203

Alignment:
GGCATCACGGATCCTACCAA
-------CAGAAATCACC--

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

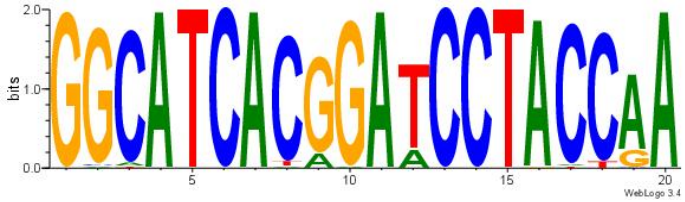

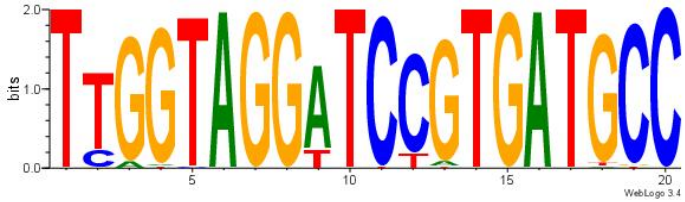

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.110331

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-----CAGAAATCACC----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

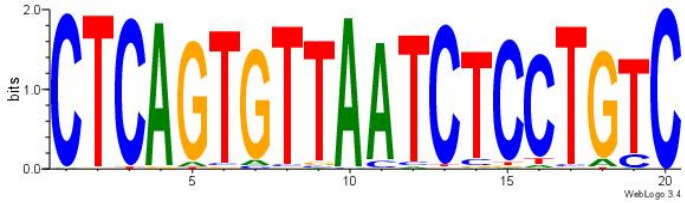

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

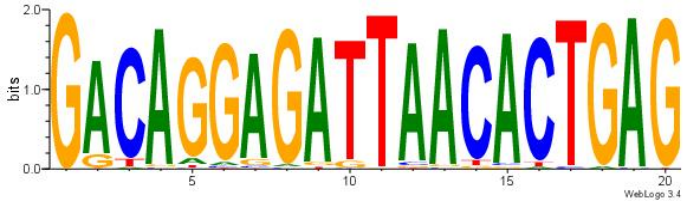

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.110337

Alignment:

```
CATTCTGGGGTCTGGAGGAY
---GGTGATTTCTG------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

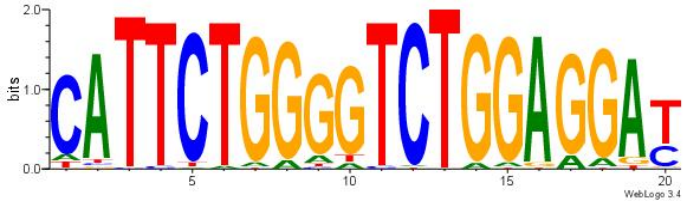

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

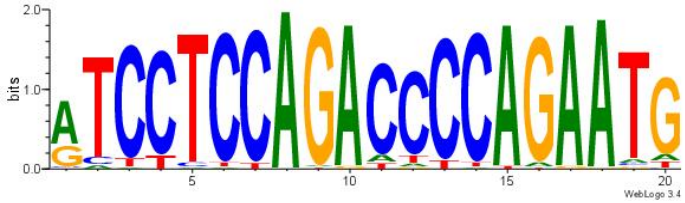

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.110418

Alignment:
CRTGAGCCACYGYRCCYGGC
CAGAAATCACC---------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

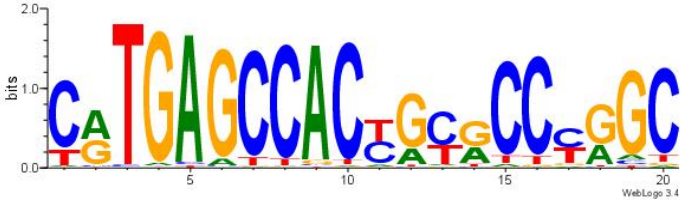

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

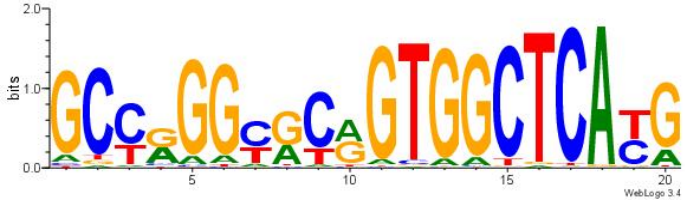

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.111131

Alignment:
AAGTCCAAGATCAAGGTGYY
----CAGAAATCACC-----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

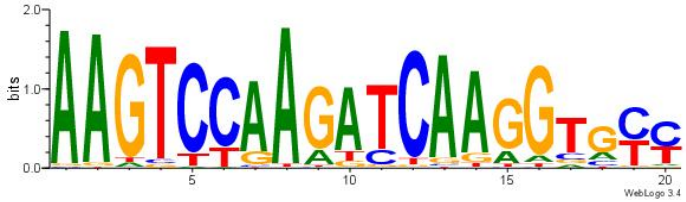

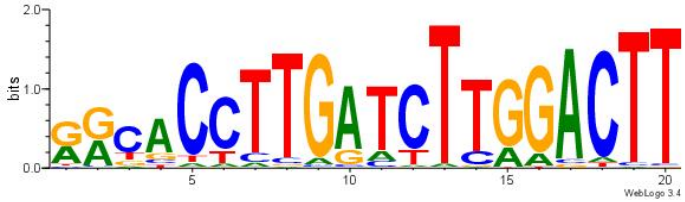

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.111196

Alignment:

```
CTCAGGAATGGAAAACC
--CAGAAATCACC----
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

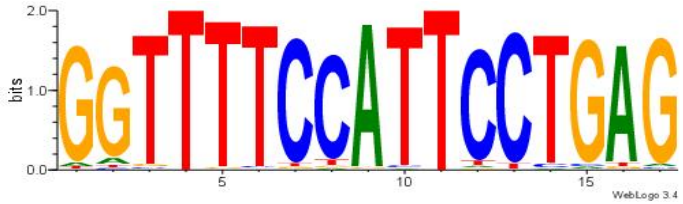

Dataset #:	1

Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.111243

Alignment:

```
GGSKGATCTGGCTG
-GGTGATTTCTG--
```

Original motif Consensus sequence: CAGCCAGATCRSCC

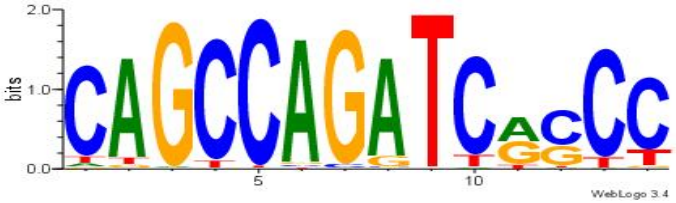

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

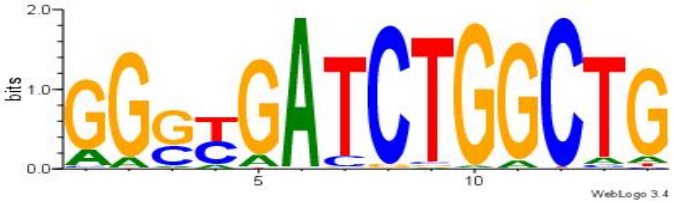

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.111289

Alignment:
KGCAACCTAGATCCCT
-----CAGAAATCACC

Original motif Consensus sequence: AGGGATCTAGGTTGCR

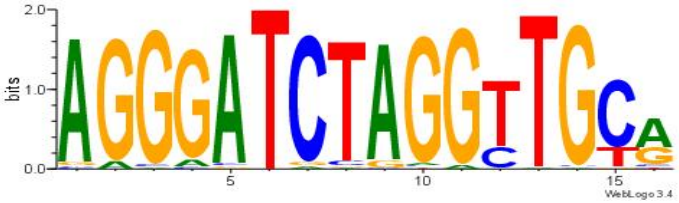

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

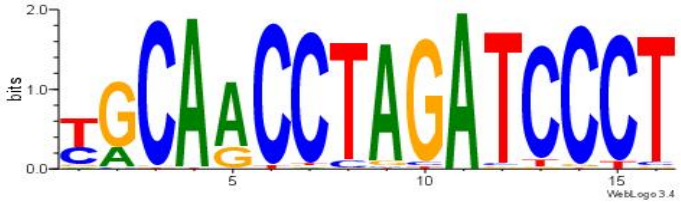

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.111624

Alignment:
AGTGTTTCCAAMCTGCT
GGTGATTTCTG------

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

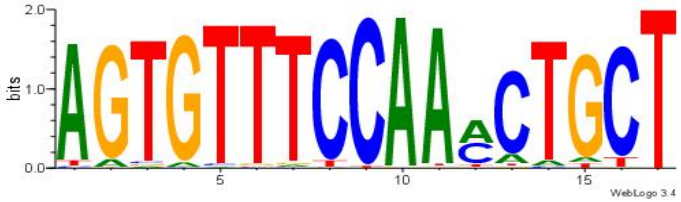

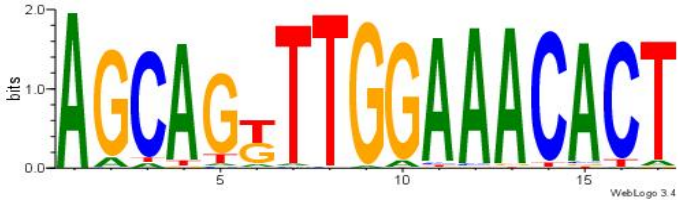

Dataset #: 1 Motif ID: 217 Motif name: Motif 217

Original motif Consensus sequence: CCCTACTGTTCTCY

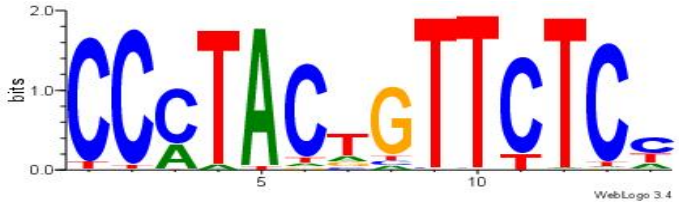

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Best Matches for Motif ID 217 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0624984

Alignment:

```
AGTGAGAACATRYRRTRTTT
----KGAGAACAGTAGGG--
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

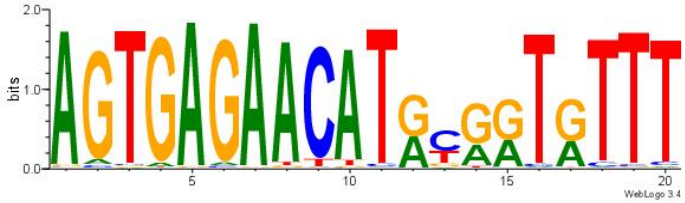

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

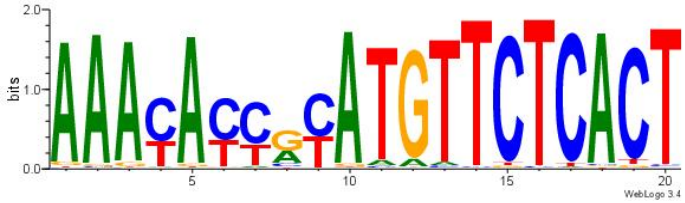

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.070491

Alignment:

```
CMCAGTTCACAATAGGGTT
---KGAGAACAGTAGGG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

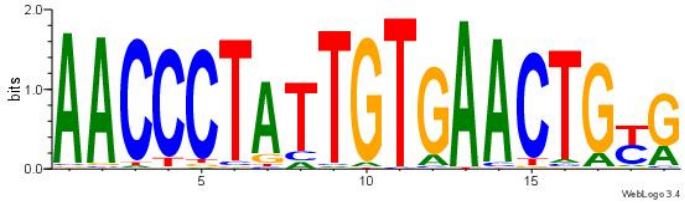

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

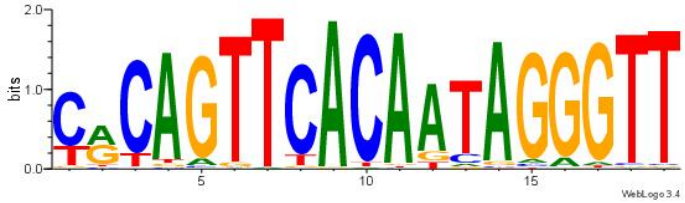

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.073742

Alignment:

```
TGGAGAACCTTTATGTCTAG
-KGAGAACAGTAGGG-----
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

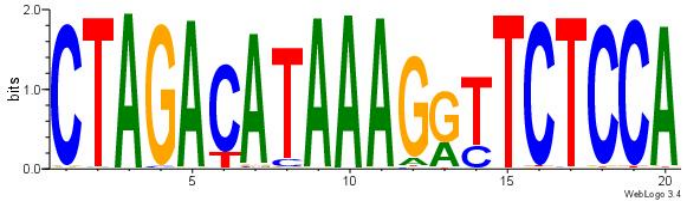

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

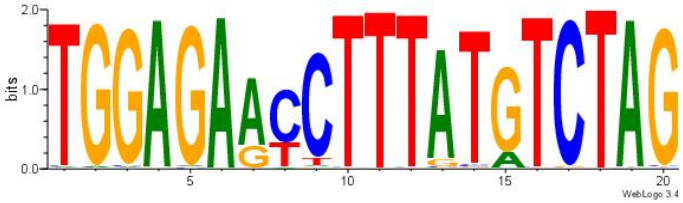

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.0746812

Alignment:
TCKMGCCACTGCACTCCAGC
---CCCTACTGTTCTCY---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

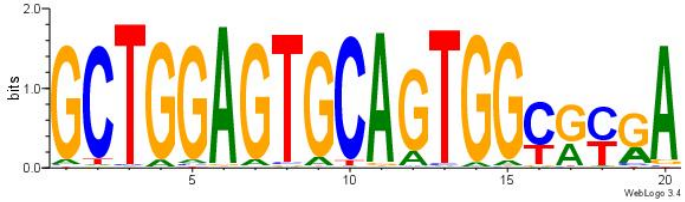

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

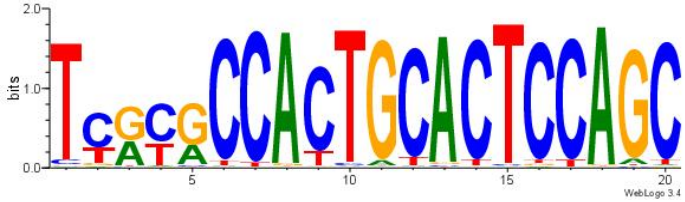

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0768892

Alignment:
GCCTCTCCCTCCACACCTCC
------CCCTACTGTTCTCY

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

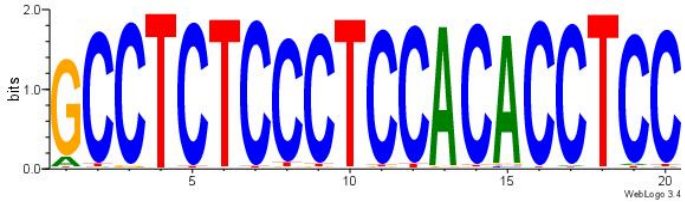

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

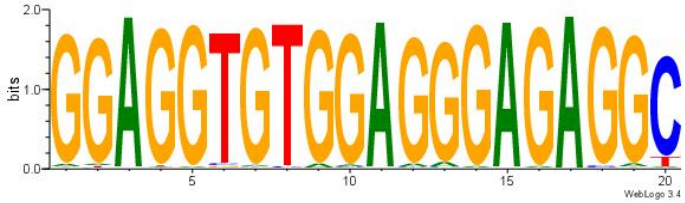

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0769894

Alignment:

```
GGGRSCACAGGAGCD
-KGAGAACAGTAGGG
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

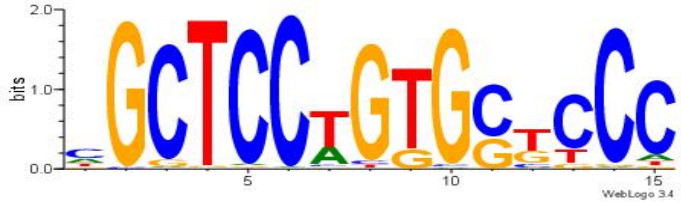

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0821126

Alignment:

```
CTGAGGACCTGAGGTCRTA
-KGAGAACAGTAGGG----
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

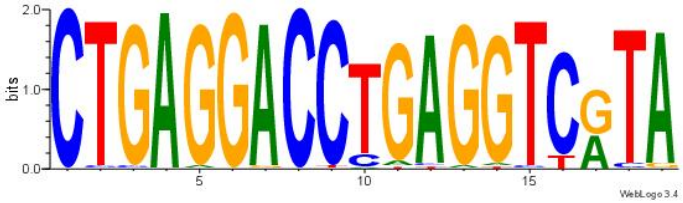

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

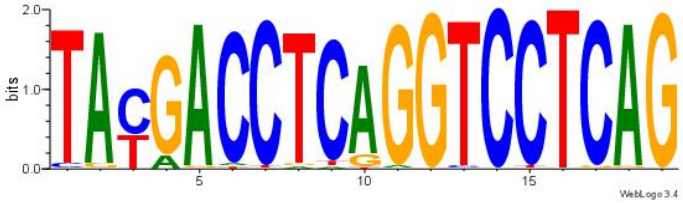

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0824691

Alignment:
ARCTCCTGKSCTCAAGKGAT
------CCCTACTGTTCTCY

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

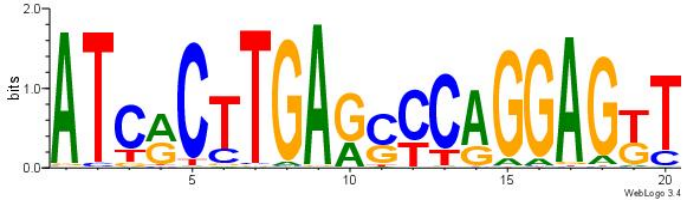

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

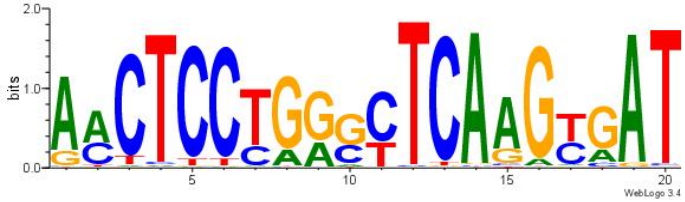

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.087306

Alignment:
AGATGCCAGCCAGAGCTCT
-----CCCTACTGTTCTCY

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

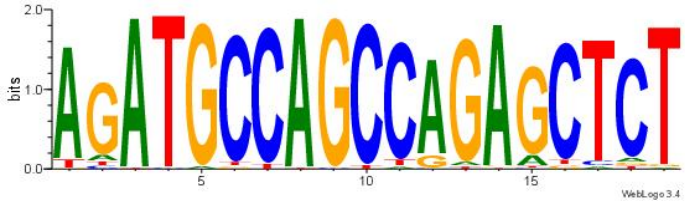

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

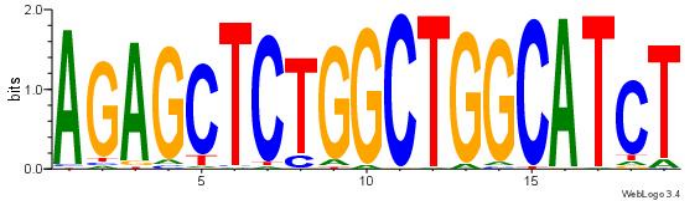

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0876375

Alignment:

```
VCCDCCTCCKCCTCCTC
CCCTACTGTTCTCY---
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

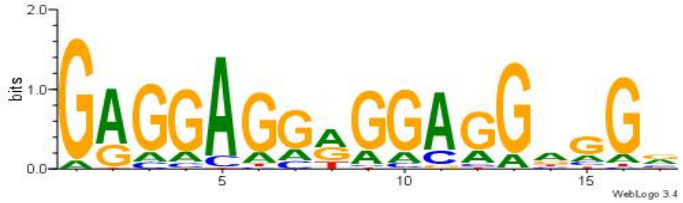

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

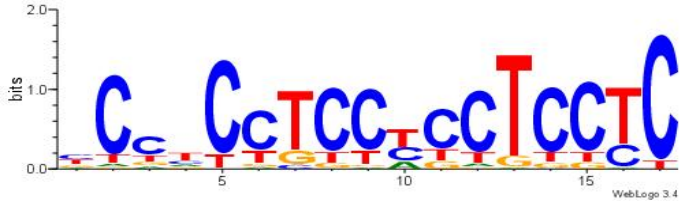

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0878459

Alignment:

```
CCCACACCCTTATTA
-CCCTACTGTTCTCY
```

Original motif Consensus sequence: CCCACACCCTTATTA

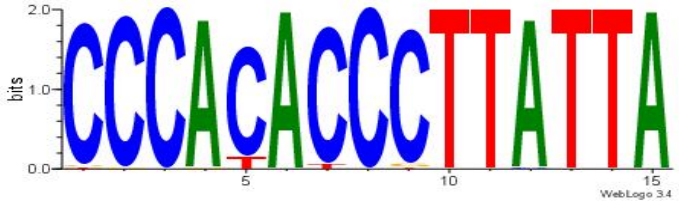

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

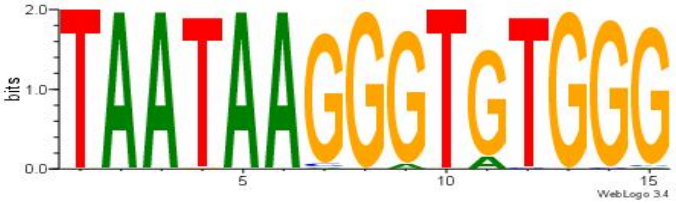

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.0879962

Alignment:
TCTCTCTCTCTCTCTCTCTC
-----CCCTACTGTTCTCY-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

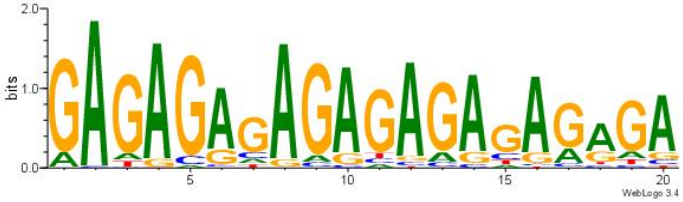

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

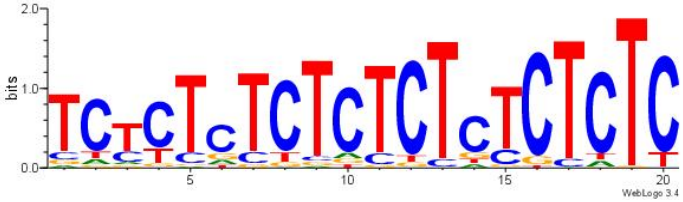

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0900601

Alignment:
GAAAAGCGCAGTATTMGGG
---KGAGAACAGTAGGG--

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence:
CCCYAATACTGCGCTTTTC

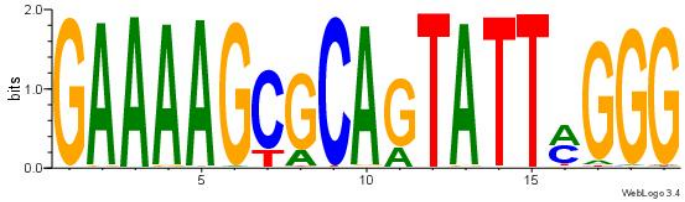

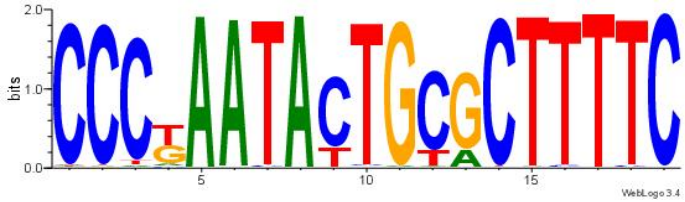

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0905087

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-KGAGAACAGTAGGG-----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

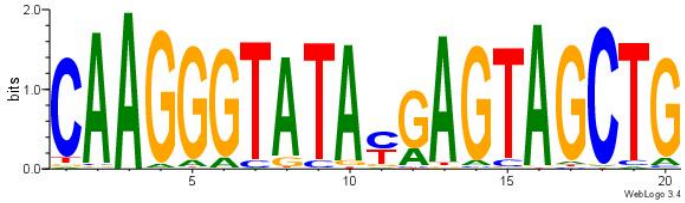

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

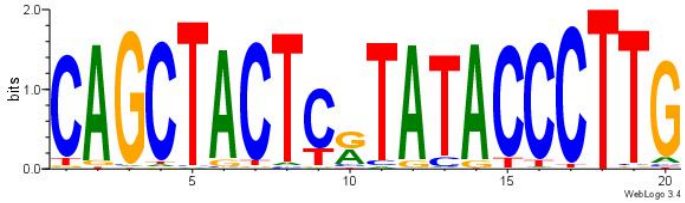

Dataset #: 1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0920852

Alignment:

```
GCAGCAMTATTCACAATAG
----CCCTACTGTTCTCY-
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

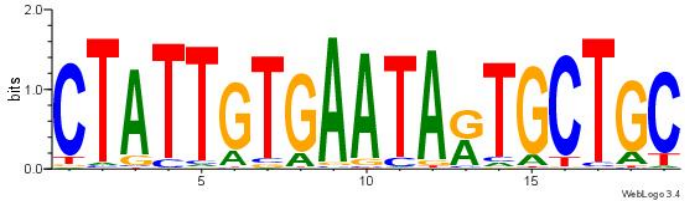

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

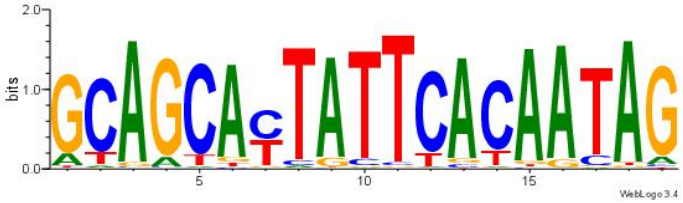

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.092743

Alignment:
GCTCCACCCAGTTCGAGCTT
---CCCTACTGTTCTCY---

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

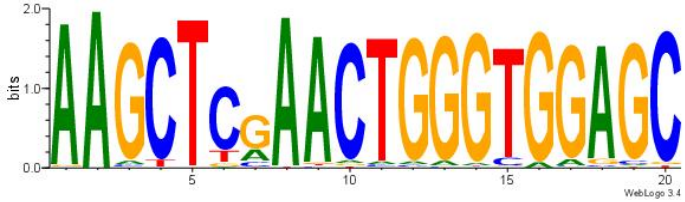

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

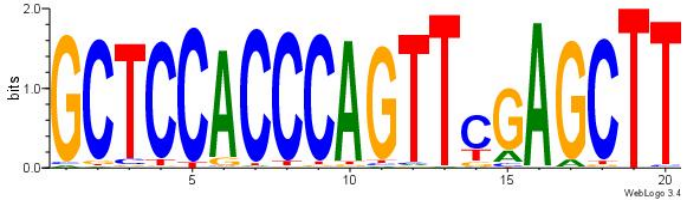

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.093251

Alignment:
ACTCCCTAGTGAGATGAACC
---CCCTACTGTTCTCY---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

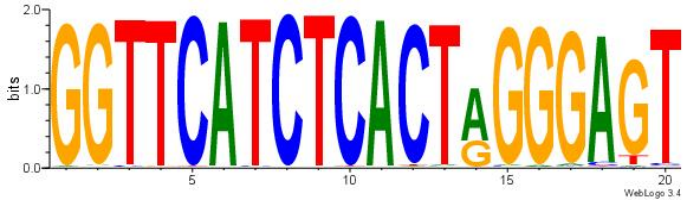

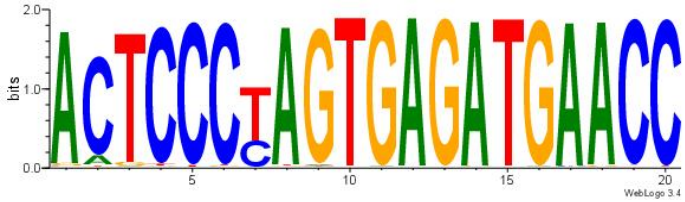

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0934267

Alignment:

```
ATCTGACAGGAGGYRGAGCT
---KGAGAACAGTAGGG---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

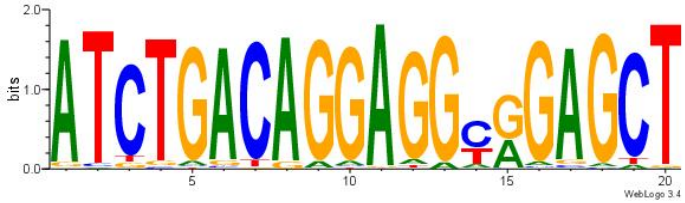

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

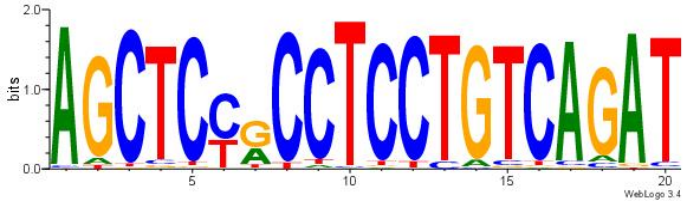

Dataset #:	1

Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0934312

Alignment:

AAGGGACATTKGAG

KGAGAACAGTAGGG

Original motif Consensus sequence: AAGGGACATTKGAG

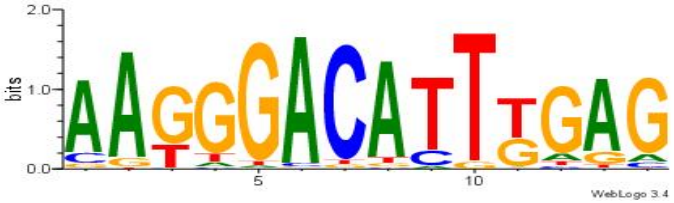

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

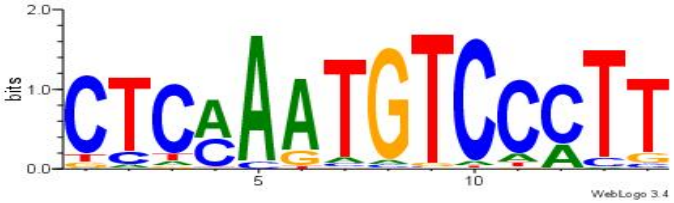

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0939956

Alignment:
AATCAACCCTGGYRATCAAT
------CCCTACTGTTCTCY

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

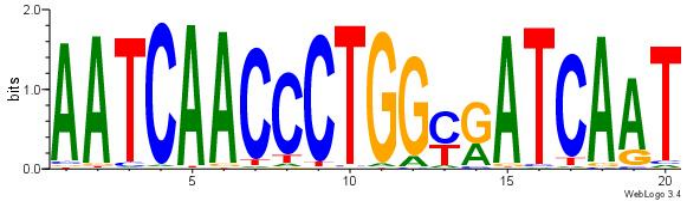

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

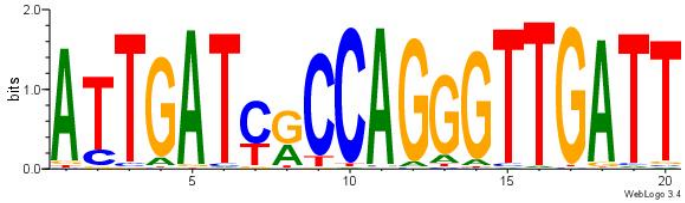

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.094473

Alignment:
ACCGAGMKMGCAGCTTCGGG
------KGAGAACAGTAGGG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

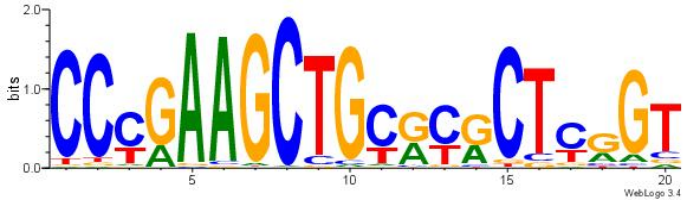

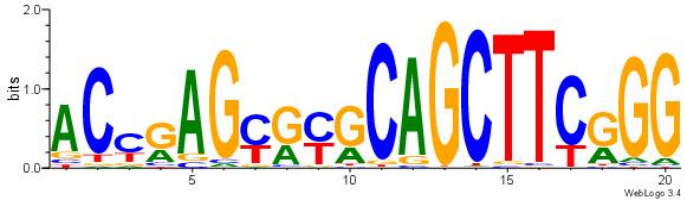

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0945599

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--KGAGAACAGTAGGG----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

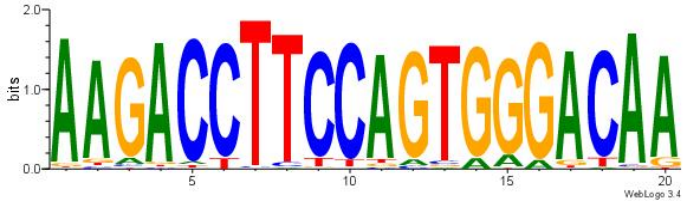

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

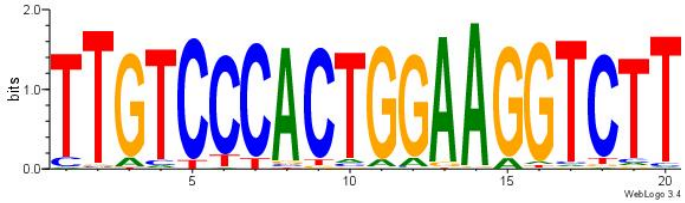

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0947756

Alignment:

```
GACAGGAGATTAACACTGAG
----KGAGAACAGTAGGG--
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

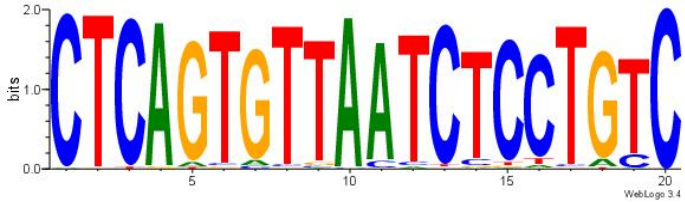

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

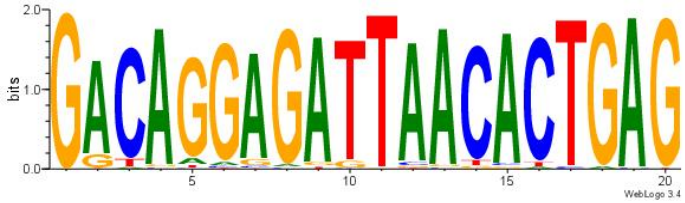

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.0949896

Alignment:
CCCAAATCTCATSTTGAAT
CCCTACTGTTCTCY-----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

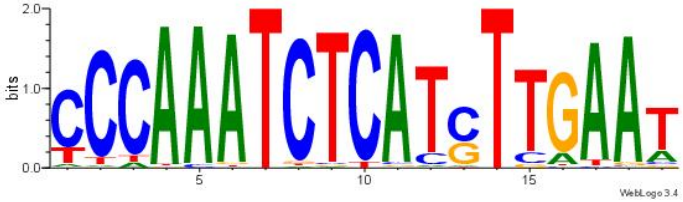

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

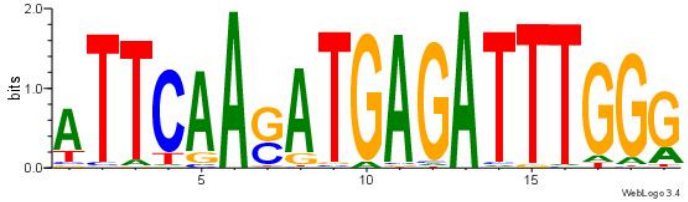

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.094991

Alignment:
TAAAAGACTACAWATTGGGT
--KGAGAACAGTAGGG----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

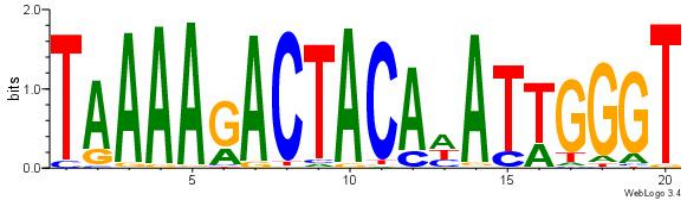

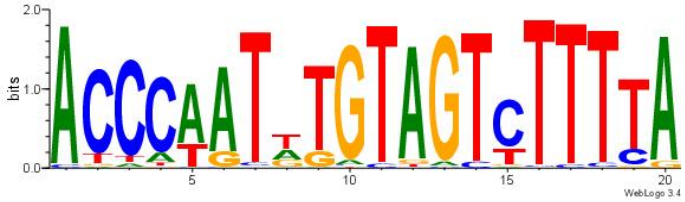

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0953388

Alignment:

```
CCCATGCAAGTCYRAAATCC
-CCCTACTGTTCTCY-----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

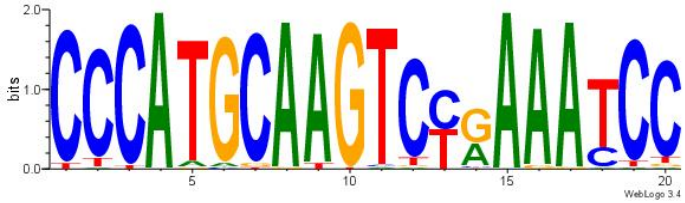

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

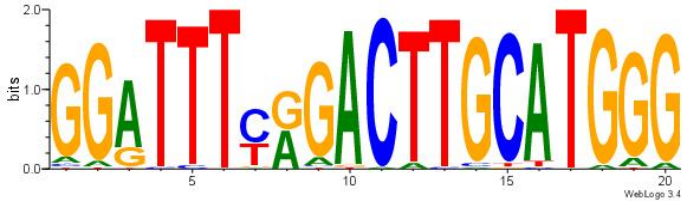

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0954443

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----KGAGAACAGTAGGG-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

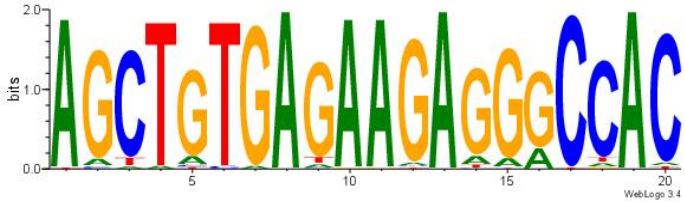

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

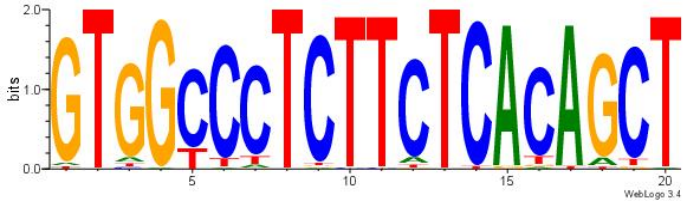

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.0955734

Alignment:
CCCTGCTAGAACCTCCAA
CCCTACTGTTCTCY----

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

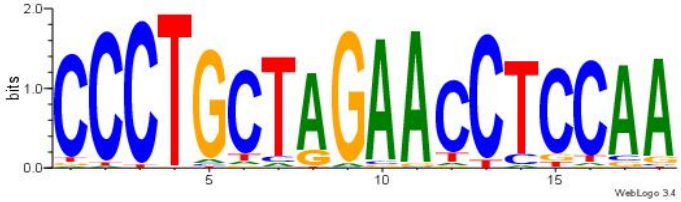

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

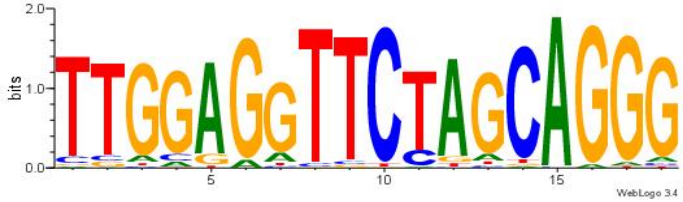

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0959264

Alignment:
CGGCGCTGMGCTCGATTTCT
------CCCTACTGTTCTCY

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

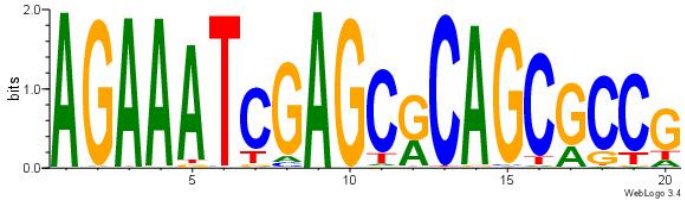

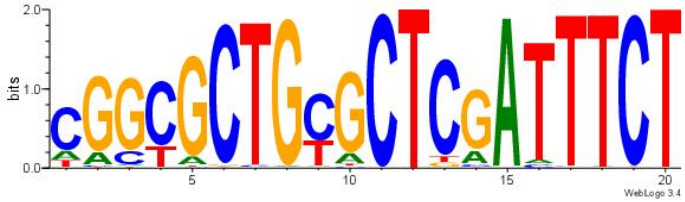

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0961991

Alignment:

```
CCGCTGCACTGTGGGAGCCC
----KGAGAACAGTAGGG--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

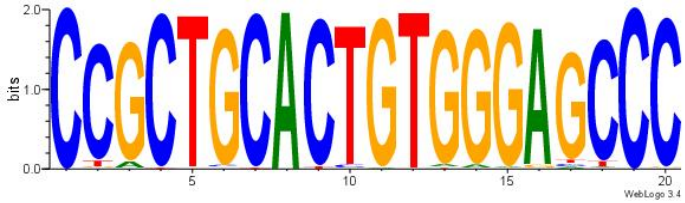

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

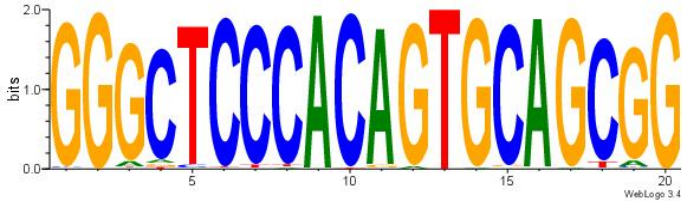

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0965696

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-----KGAGAACAGTAGGG-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

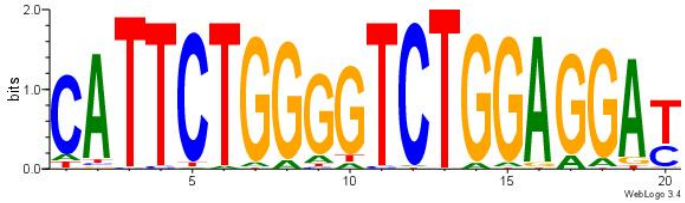

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

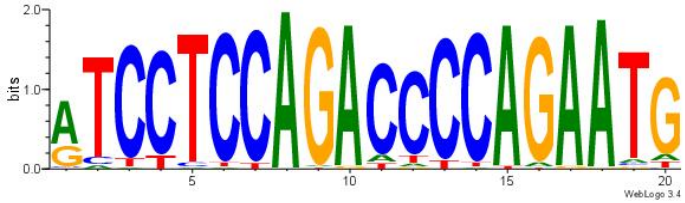

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.0969156

Alignment:
TTTTATAGGATTTGGG
--KGAGAACAGTAGGG

Original motif Consensus sequence: CCCAAATCCTATAAAA

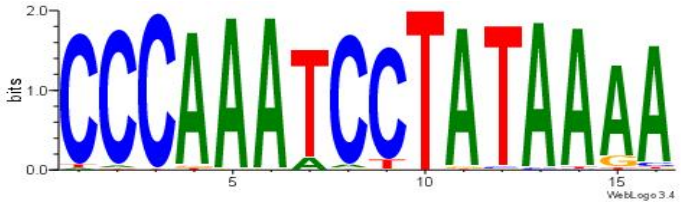

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

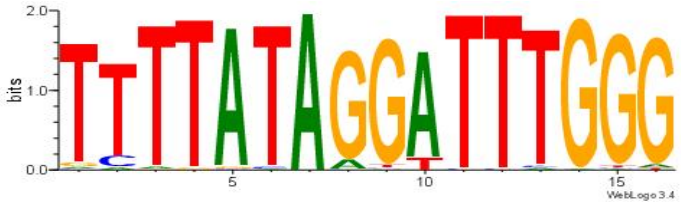

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.09764

Alignment:
CATGGCGGGCTGCAGGTC
-KGAGAACAGTAGGG---

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

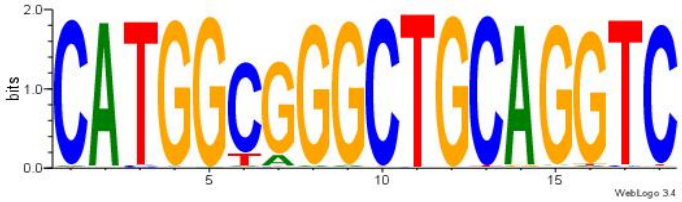

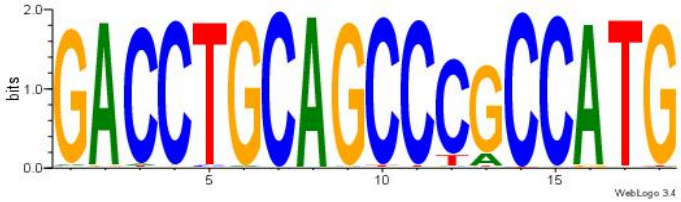

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0977146

Alignment:

```
GGAGCCCACGGAGG
KGAGAACAGTAGGG
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

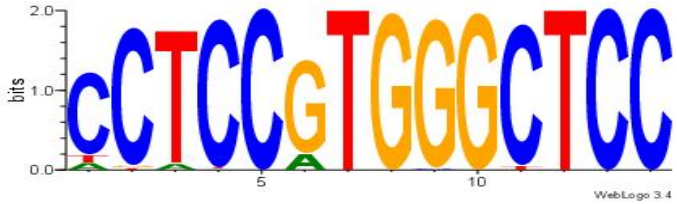

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

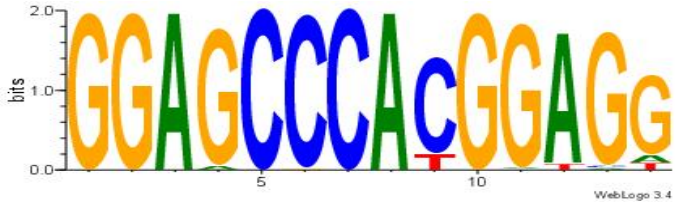

Dataset #:	1
Motif ID:	102

Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0981318

Alignment:

```
CTCATTTAATCCTCACAAC
-CCCTACTGTTCTCY----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

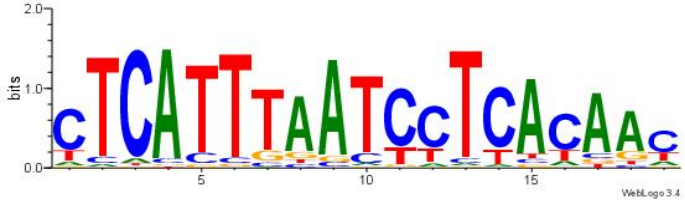

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

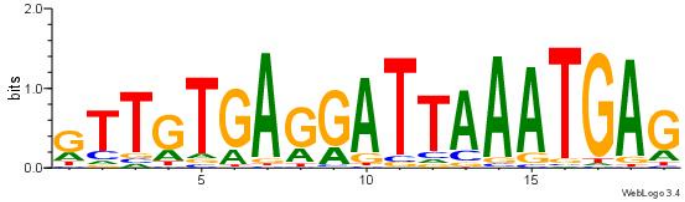

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0985959

Alignment:
GCCKCCCCGTCCGGGAGGGA
-----KGAGAACAGTAGGG-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

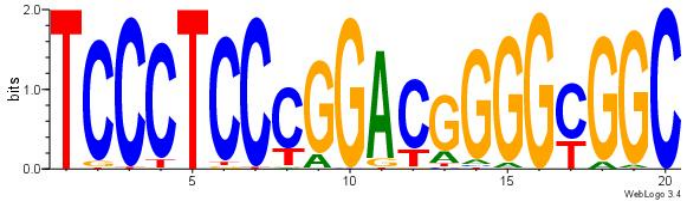

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

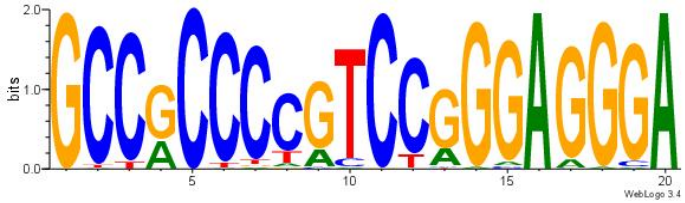

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.098652

Alignment:
KCCGGGCCTTAGCTGCCTTC
CCCTACTGTTCTCY------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

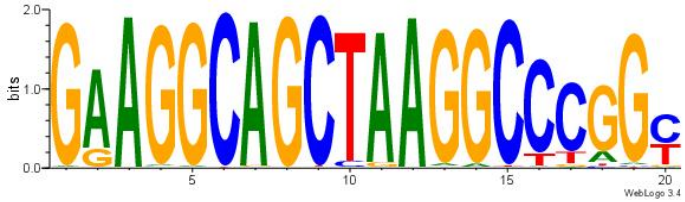

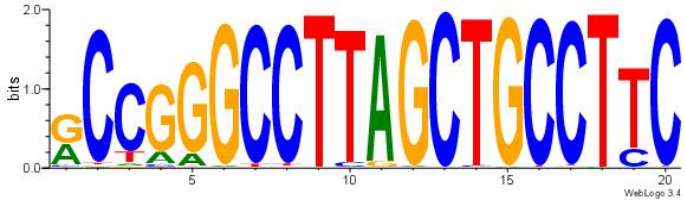

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0989412

Alignment:

```
TAGTGGTGATTTSTGAGAT
----KGAGAACAGTAGGG-
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

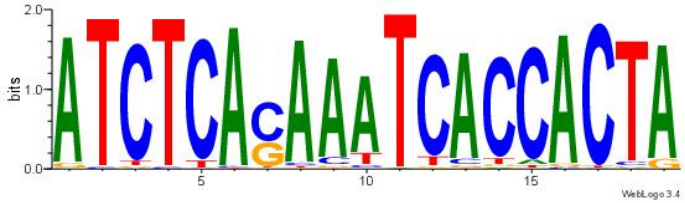

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

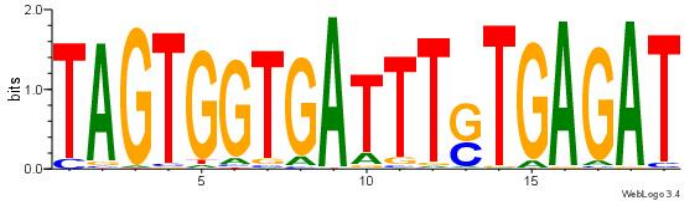

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0996446

Alignment:

```
GTGCCAGGCACTGTKCTARG
-----CCCTACTGTTCTCY-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

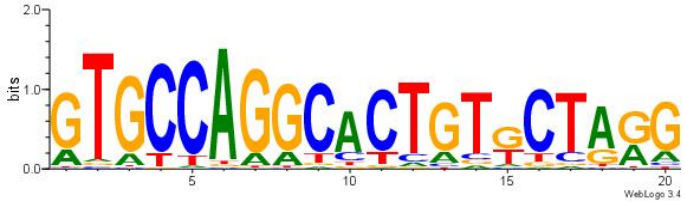

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

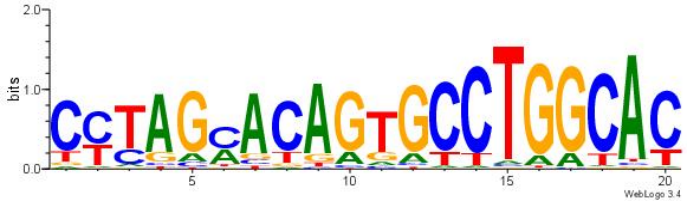

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.0997084

Alignment:
ATGGAATAYTATTCAGCCAT
---CCCTACTGTTCTCY---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

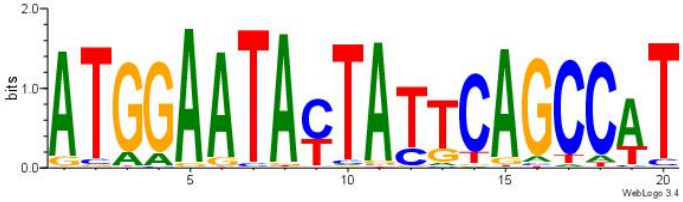

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

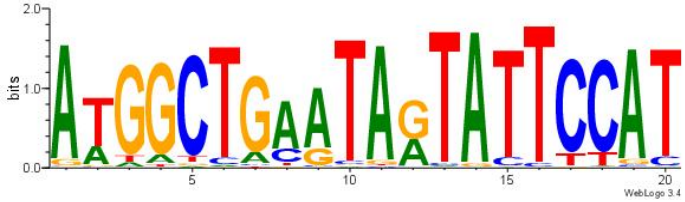

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.0998414

Alignment:
AAAATCACAAGCATTCCTAT
-----CCCTACTGTTCTCY-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

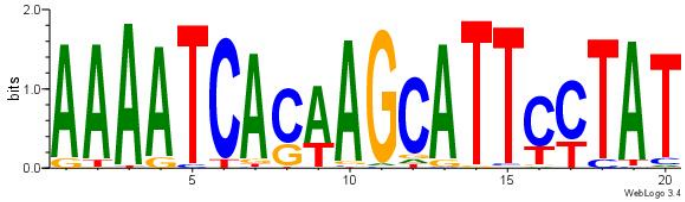

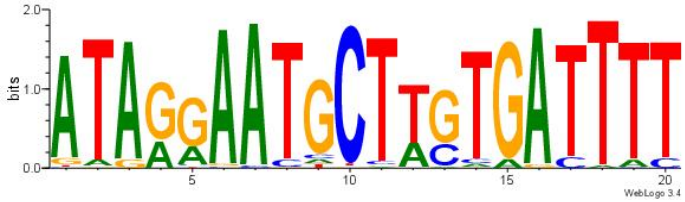

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.100197

Alignment:

```
ATCCATCCATCCATCCA
--CCCTACTGTTCTCY-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

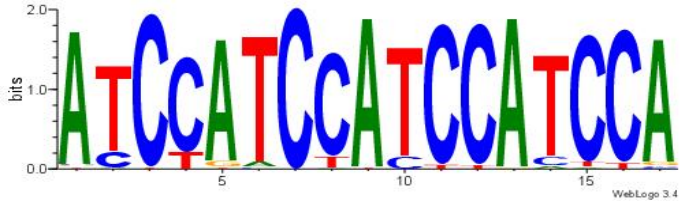

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.100423

Alignment:

```
TCCAAATGGGAGAAATTGGC
------KGAGAACAGTAGGG
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

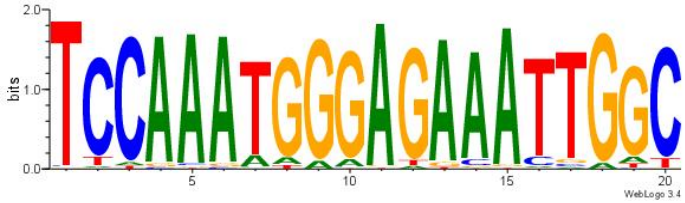

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

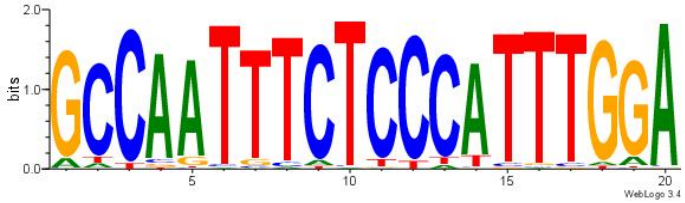

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.10069

Alignment:
KKCACCTTGATCTTGGACTT
--CCCTACTGTTCTCY----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

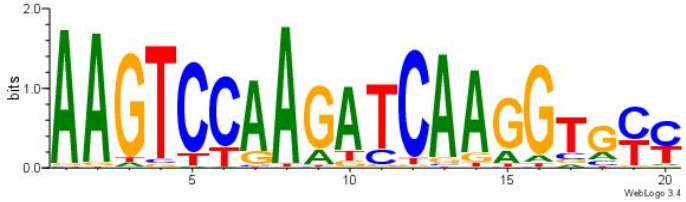

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

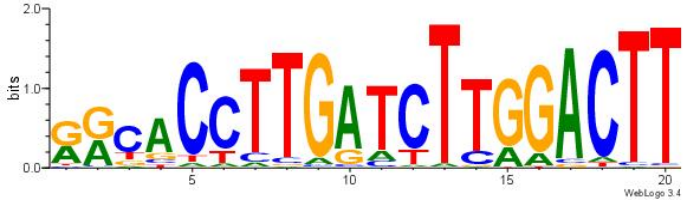

Dataset #: 1
Motif ID: 239
Motif name: Motif 239
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.101093

Alignment:
AGCCTCCAGAACTGT
-CCCTACTGTTCTCY

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.101166

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
---CCCTACTGTTCTCY---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

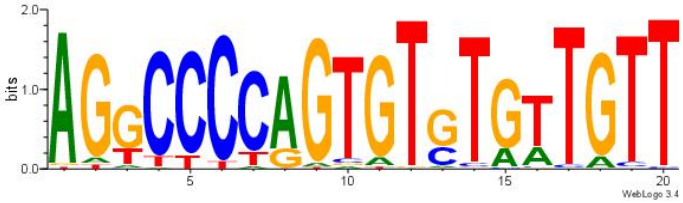

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

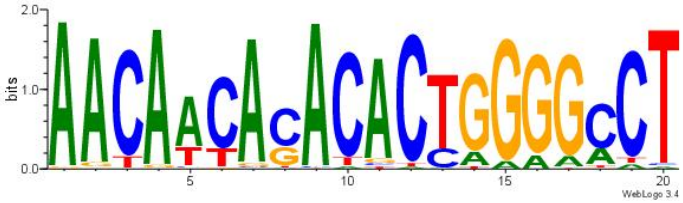

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.101589

Alignment:

```
GTTTAACCATTGAGGGCCAG
KGAGAACAGTAGGG------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

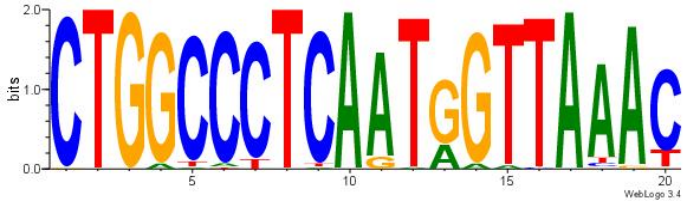

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

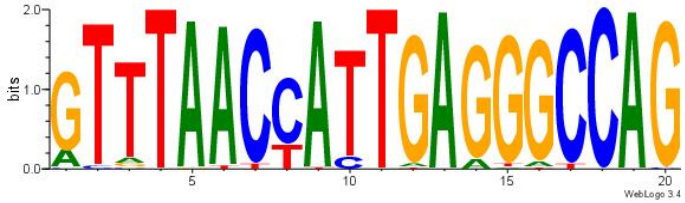

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.10287

Alignment:
GAGSTTGCAGTGAGC
-KGAGAACAGTAGGG

Original motif Consensus sequence: GCTCACTGCAASCTC

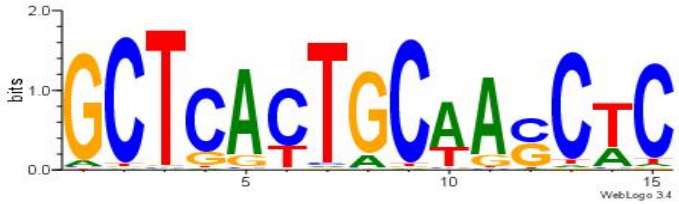

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

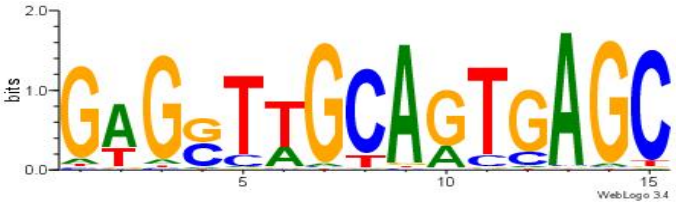

Dataset #: 1
Motif ID: 118
Motif name: Motif 118
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.102941

Alignment:
GGAGGATCACKTGAG
-KGAGAACAGTAGGG

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

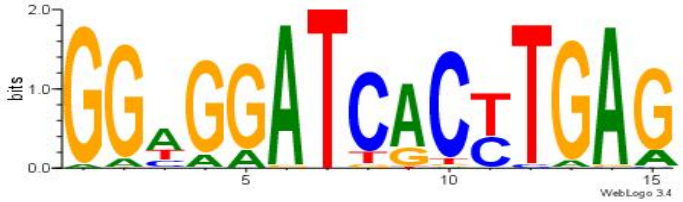

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.103194

Alignment:

```
KACGGGCTTAARAAACGGC
----KGAGAACAGTAGGG-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

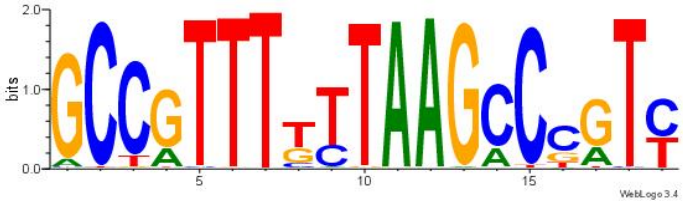

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

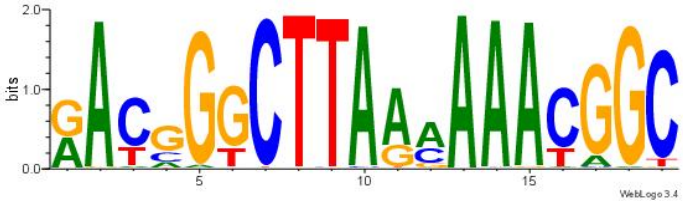

Dataset #: 1 Motif ID: 218 Motif name: Motif 218

Original motif Consensus sequence: AAGTWACTT

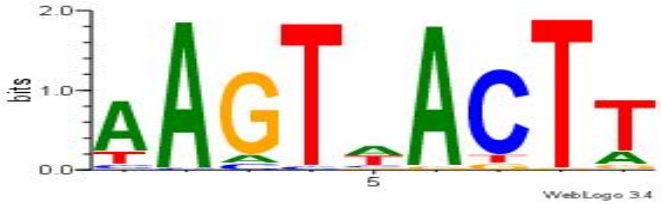

Reverse complement motif Consensus sequence: AAGTWACTT

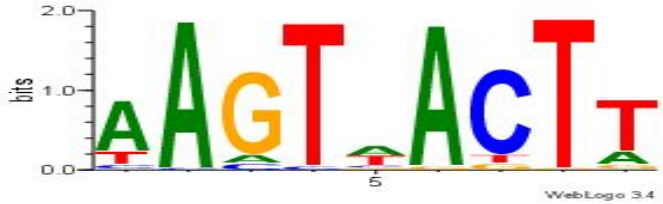

Best Matches for Motif ID 218 (Highest to Lowest)

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0387296

Alignment:

```
GAAATTGACTTCCTCCT
--AAGTWACTT------
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

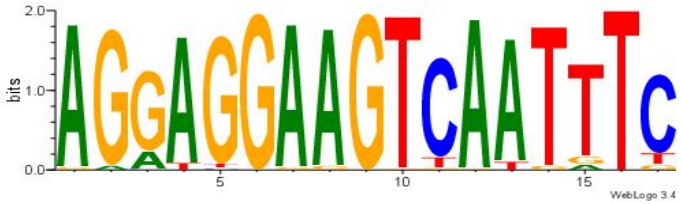

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

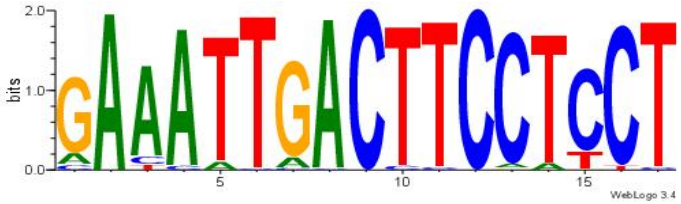

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0394637

Alignment:

```
MGAAGGGACTTGCCTTGT
--AAGTWACTT-------
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

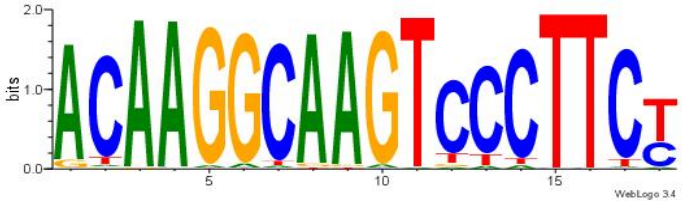

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

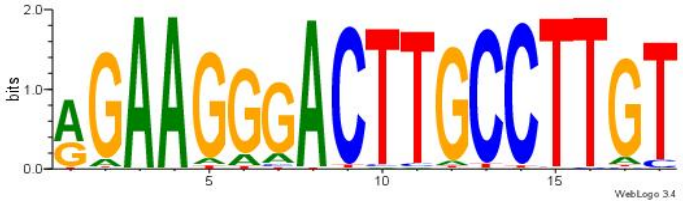

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 9
Similarity score: 0.0489965

Alignment:
ACGTCACTTCCG
AAGTWACTT---

Original motif Consensus sequence: CGGAAGTGACGT

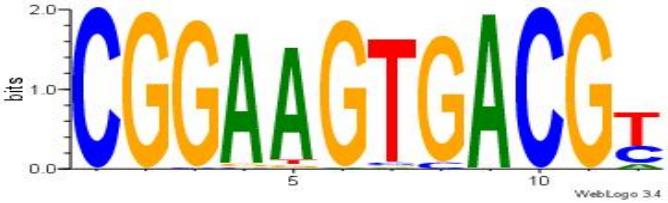

Reverse complement motif Consensus sequence: ACGTCACTTCCG

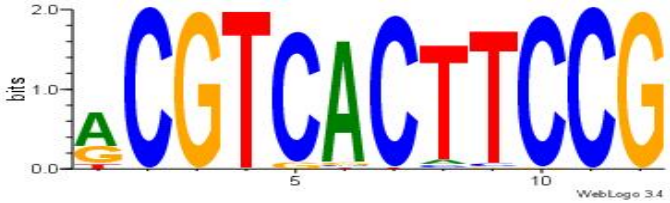

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 9
Similarity score: 0.0574127

Alignment:
TGTATTAGTCMMTT
-----AAGTWACTT

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

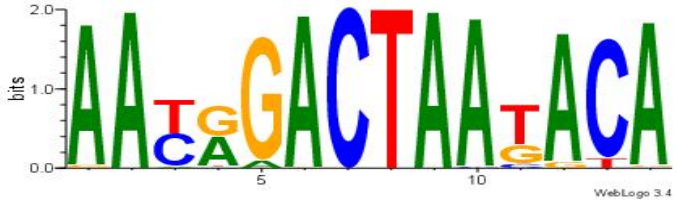

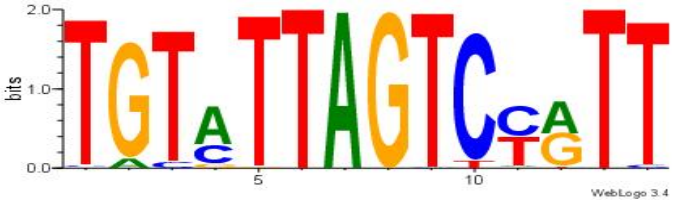

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0685527

Alignment:

```
CTCRAATGTCCCTT
AAGTWACTT-----
```

Original motif Consensus sequence: AAGGGACATTKGAG

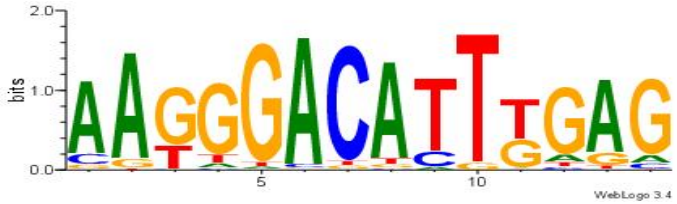

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

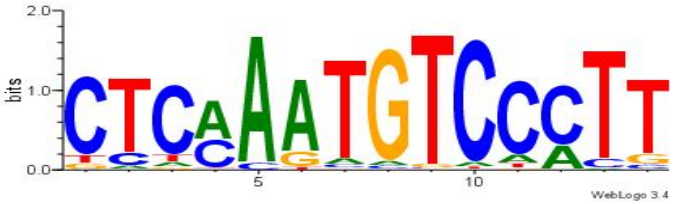

Dataset #:	1
Motif ID:	103

Motif name:	Motif 103
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0694618

Alignment:

```
TTATTTCACTT
--AAGTWACTT
```

Original motif Consensus sequence: AAGTGAAATAA

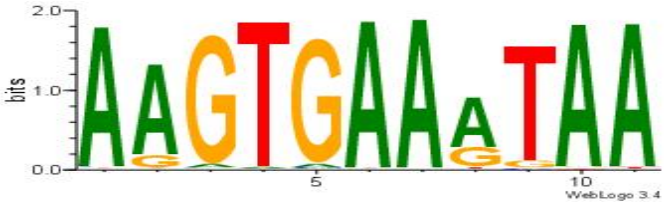

Reverse complement motif Consensus sequence: TTATTTCACTT

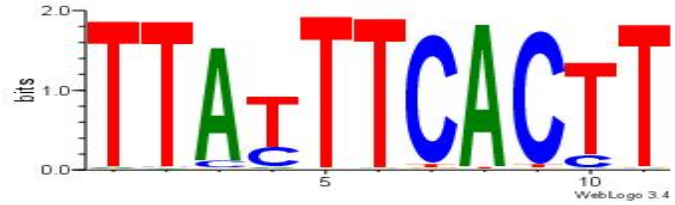

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0699729

Alignment:
CAAGGGTATAYGAGTAGCTG
----------AAGTWACTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

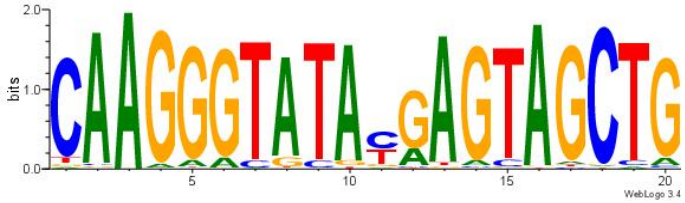

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

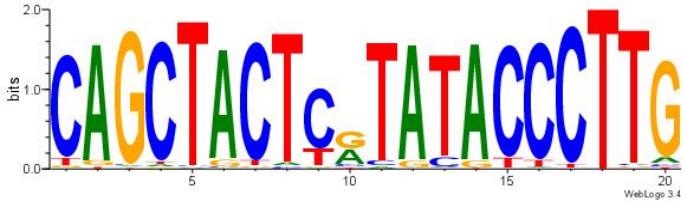

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0711788

Alignment:
GTGTCKGGAGTTTGTTCCTT
-------AAGTWACTT----

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

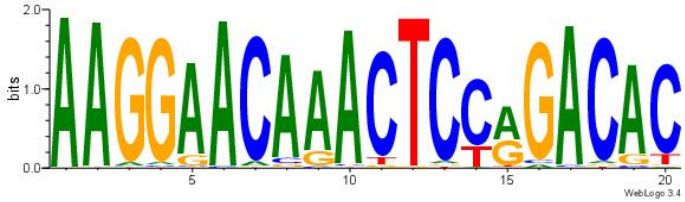

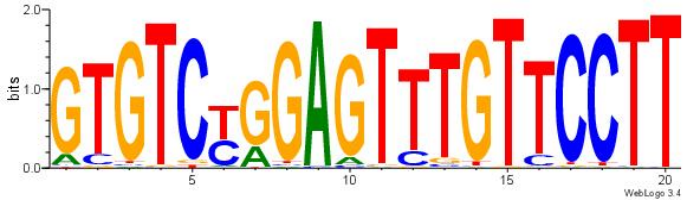

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0717093

Alignment:

```
TGGAGAACCTTTATGTCTAG
--AAGTWACTT---------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

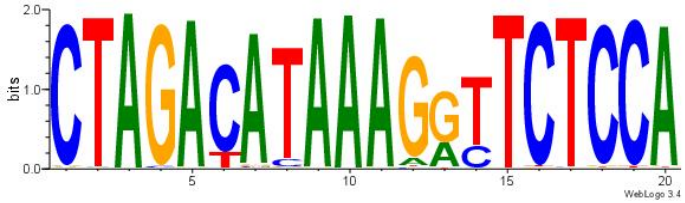

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

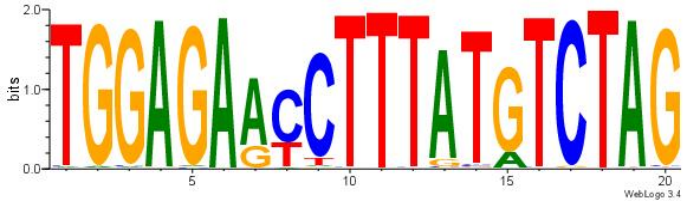

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0735418

Alignment:

```
AAAATCACAAGCATTCCTAT
-AAGTWACTT----------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

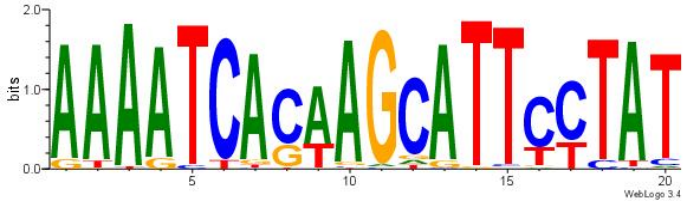

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

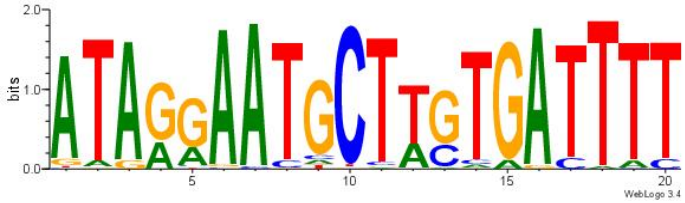

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.0738032

Alignment:
AAATTACCCAGTCTCAGGTA
AAGTWACTT----------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

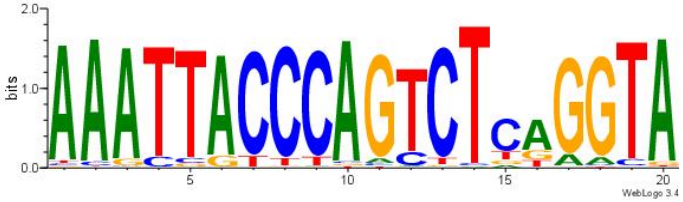

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

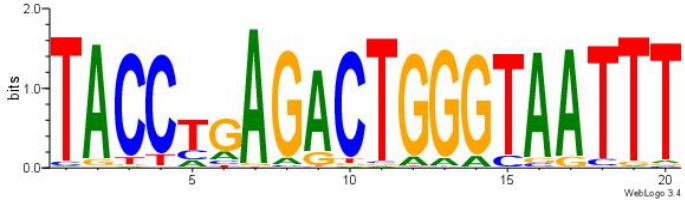

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0757779

Alignment:
TWTACCTATGTAACAAACCT
-------AAGTWACTT----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

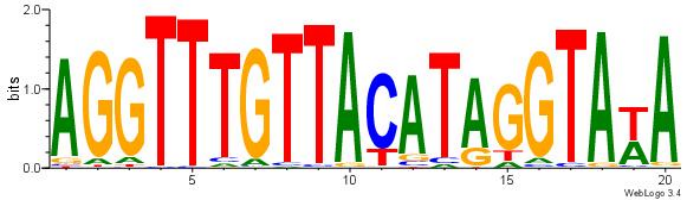

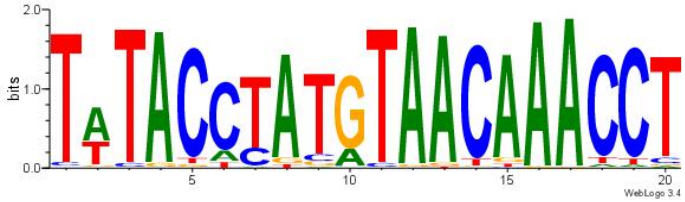

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.075872

Alignment:

```
TAAAAGACTACAWATTGGGT
-AAGTWACTT----------
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

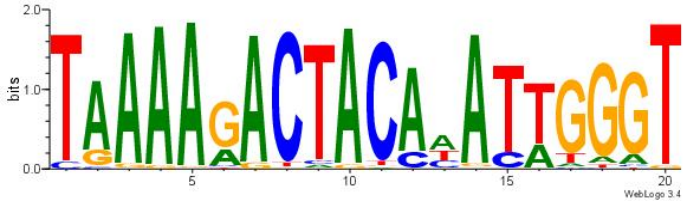

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

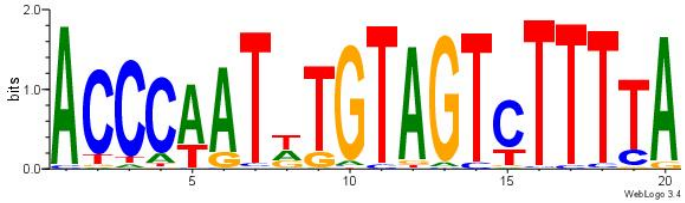

Dataset #: 1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0760991

Alignment:

```
ATAAAAACTTGCTGGTTTT
-AAGTWACTT---------
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

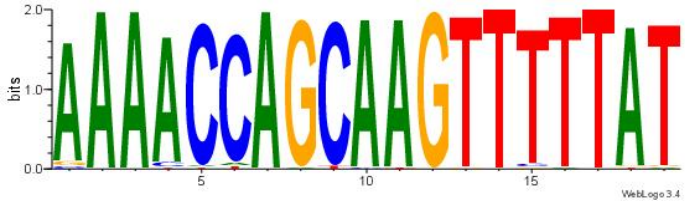

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

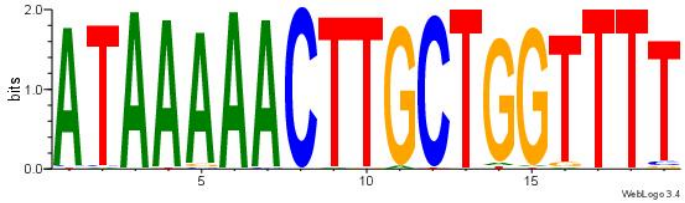

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.077263

Alignment:
ATGGACAYTTRGGTTGHTTC
----------AAGTWACTT-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

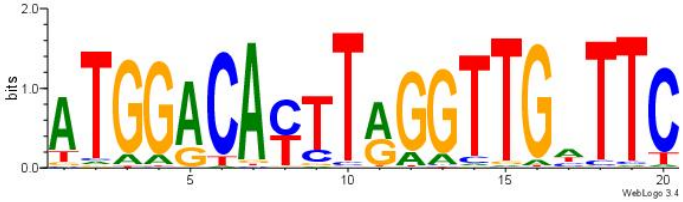

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

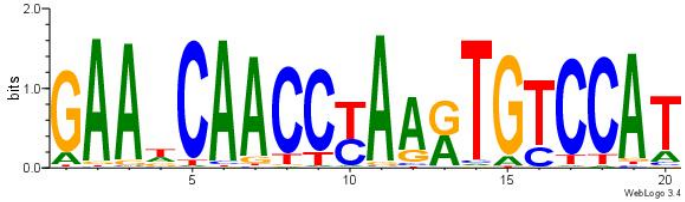

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.077362

Alignment:
CMTAGYACAGTGCCTGGCAC
-------AAGTWACTT----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

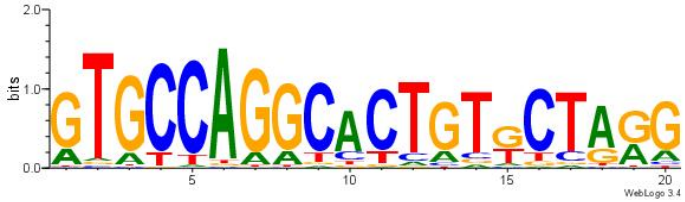

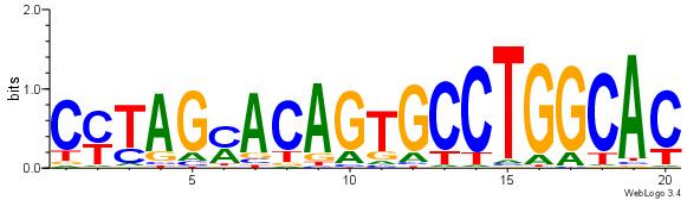

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0779003

Alignment:

```
TGAGKCAATTAAACCTCTT
-AAGTWACTT---------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

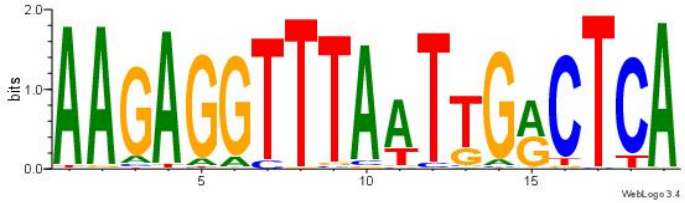

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

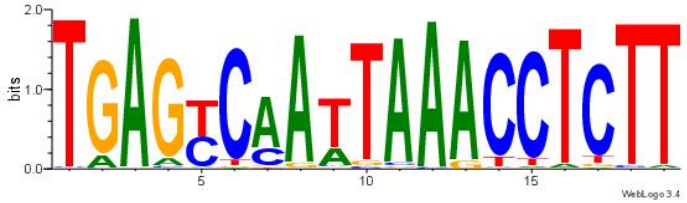

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0779086

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-----------AAGTWACTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

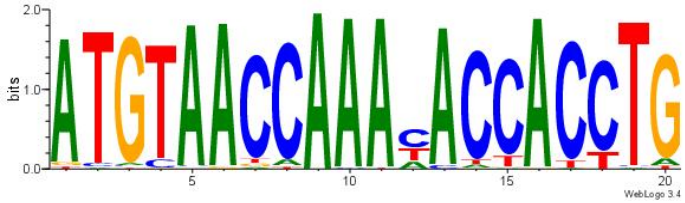

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

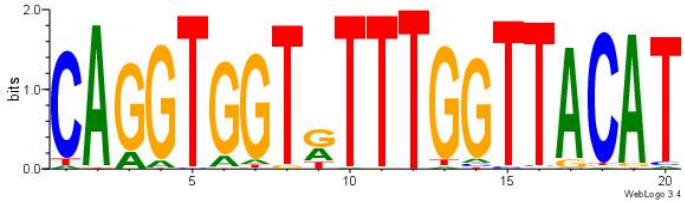

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9

Similarity score: 0.0790997

Alignment:
ACACATCACAAAGCAGTTTC
-AAGTWACTT----------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

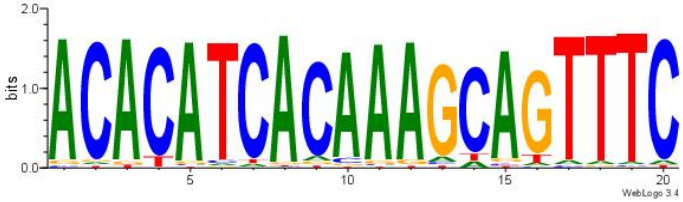

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

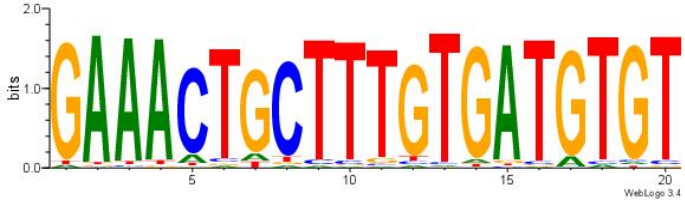

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 9
Similarity score: 0.0794798

Alignment:
TAGTGGTGATTTSTGAGAT
---AAGTWACTT-------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

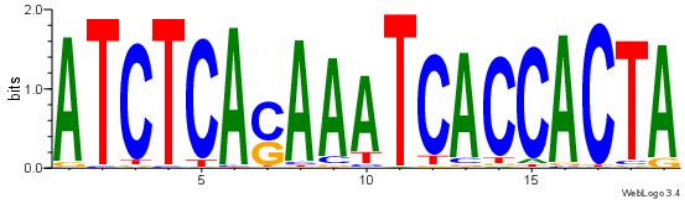

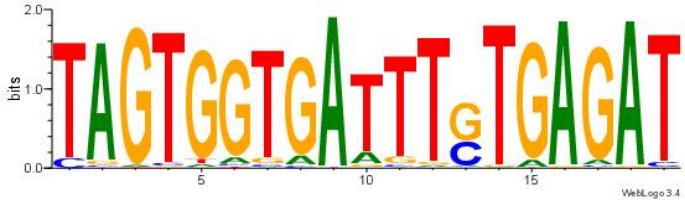

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0809594

Alignment:

```
GCCTCAGTTTCCY
----AAGTWACTT
```

Original motif Consensus sequence: GCCTCAGTTTCCY

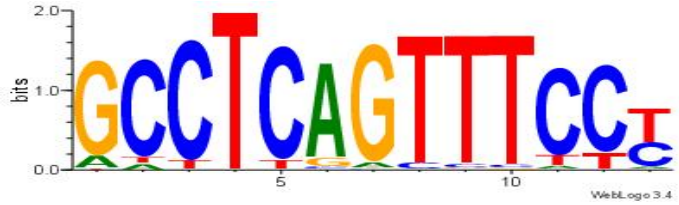

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

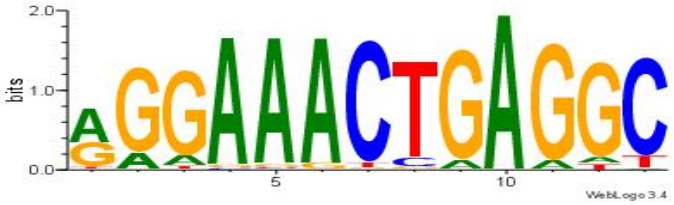

Dataset #:	1
Motif ID:	104

Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0809657

Alignment:

```
CTCCAGKTMCATCCATGTTG
---AAGTWACTT--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

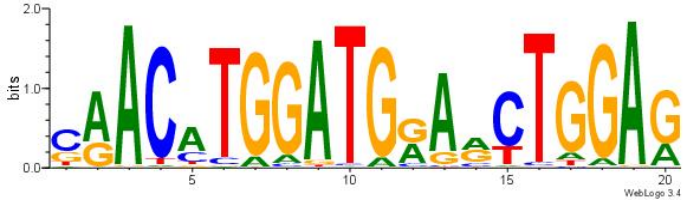

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

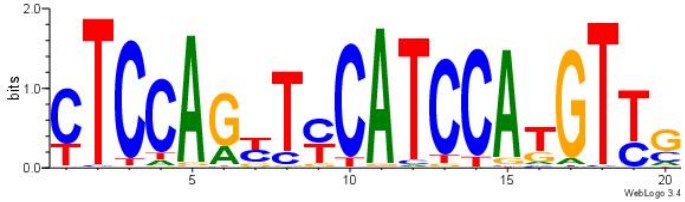

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0815849

Alignment:
GCCAGTCACAAAARGACAMA
--AAGTWACTT---------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

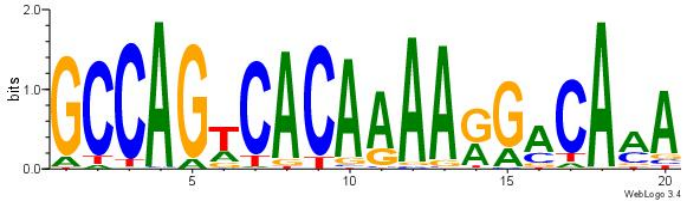

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

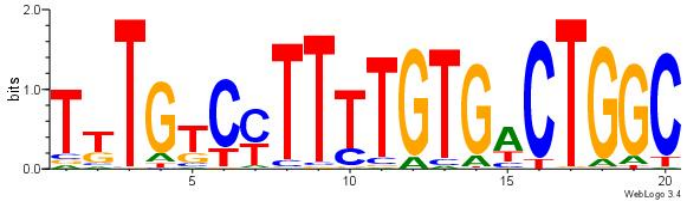

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	9
Similarity score:	0.0818817

Alignment:
GCAAAKGACATGATYTCATT
--AAGTWACTT---------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

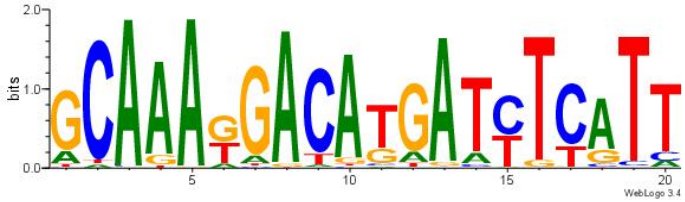

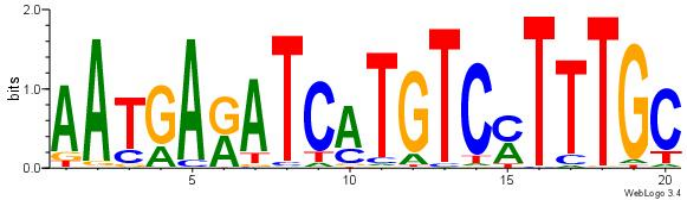

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0826143

Alignment:

```
GATACAAAATCAATGTR
------AAGTWACTT--
```

Original motif Consensus sequence: GATACAAAATCAATGTR

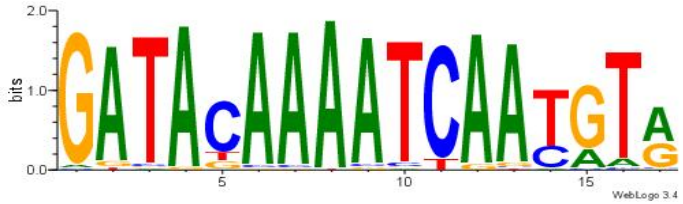

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

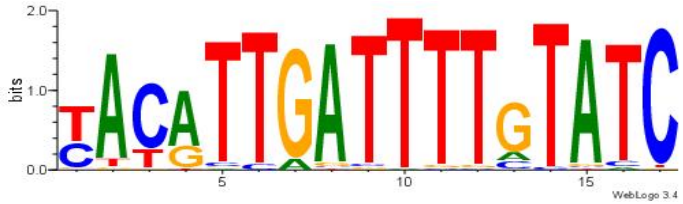

Dataset #:	1

Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0830873

Alignment:

```
CAGAAATCACCCGTCTT
---AAGTWACTT-----
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

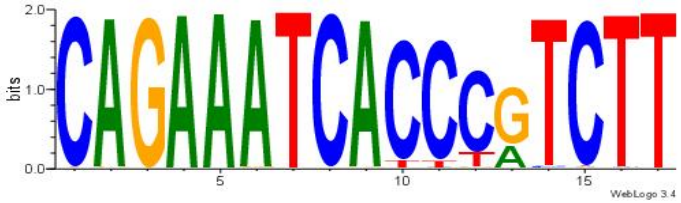

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

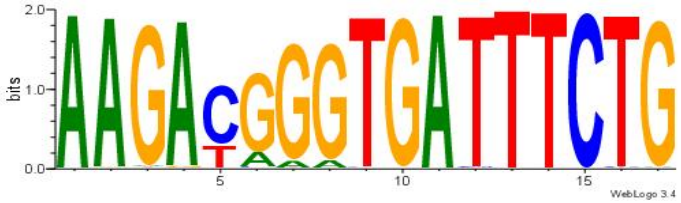

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0833942

Alignment:
AGTAGGTGCTCARTAAATRB
----------AAGTWACTT-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

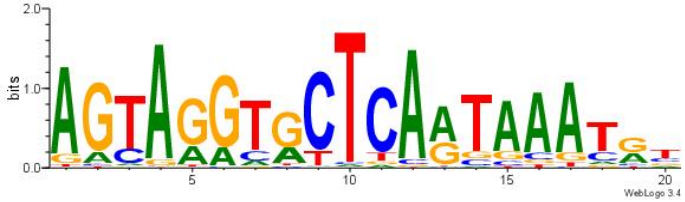

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

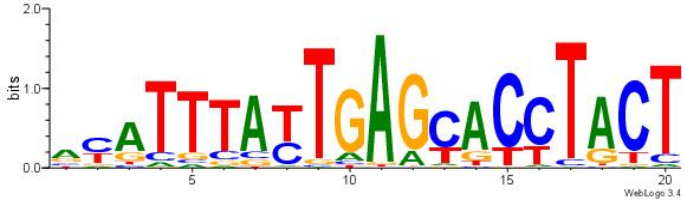

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 9
Similarity score: 0.0836325

Alignment:
CTGACTGGGAGACACCTCCC
--------AAGTWACTT---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

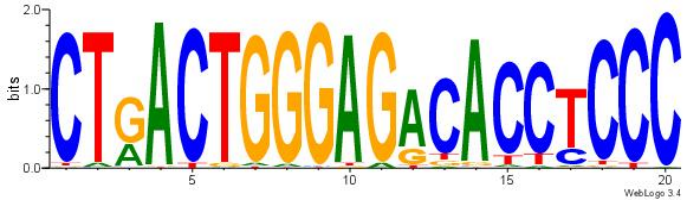

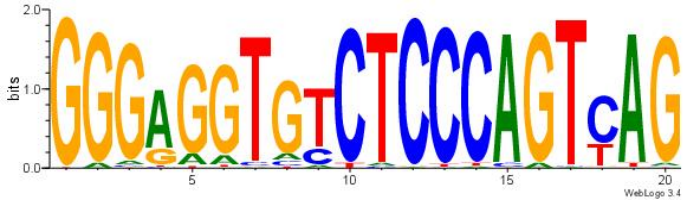

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.083706

Alignment:

```
AAATTAGGCCAATTAATAAC
---------AAGTWACTT--
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

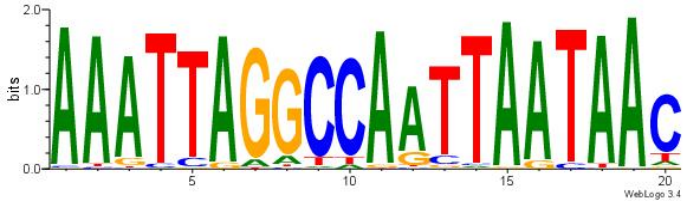

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0840073

Alignment:

```
GGTTCATCTCACTAGGGAGT
-----AAGTWACTT------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

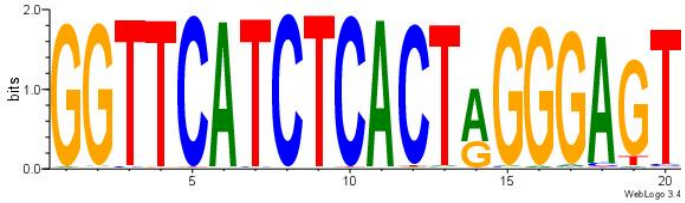

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

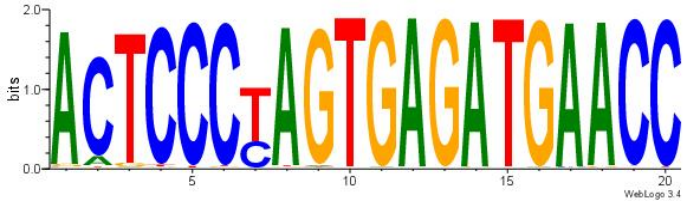

Dataset #:	1
Motif ID:	162
Motif name:	Motif 162
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0841892

Alignment:
CAAGGTCCAT
-AAGTWACTT

Original motif Consensus sequence: ATGGACCTTG

Reverse complement motif Consensus sequence: CAAGGTCCAT

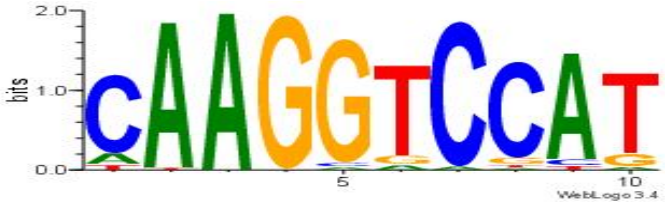

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.0846003

Alignment:
GCTGTGTGACCTTGGGCAAG
---AAGTWACTT--------

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

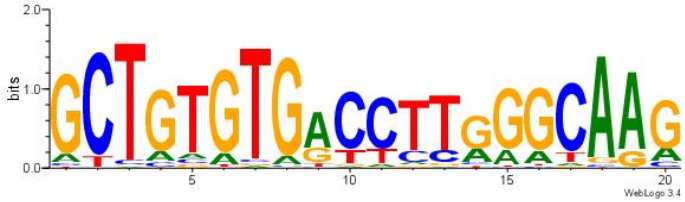

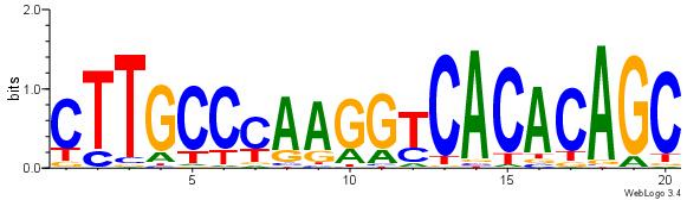

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0846108

Alignment:

```
TTTCTTTTCCTT
---AAGTWACTT
```

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

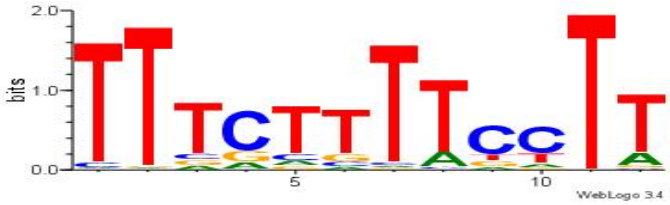

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	9
Similarity score:	0.0847174

Alignment:

```
AAGTTCTKGGKTACATGTGC
AAGTWACTT-----------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

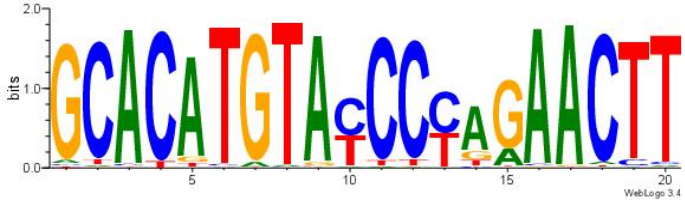

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

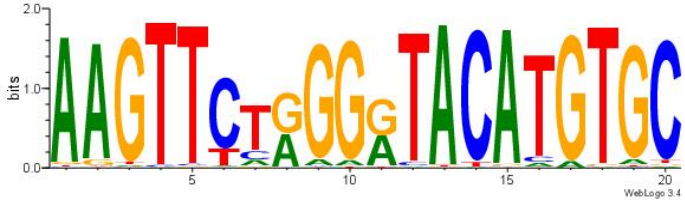

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.085721

Alignment:
GCTGCARTCTCGGCACTTT
---------AAGTWACTT-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

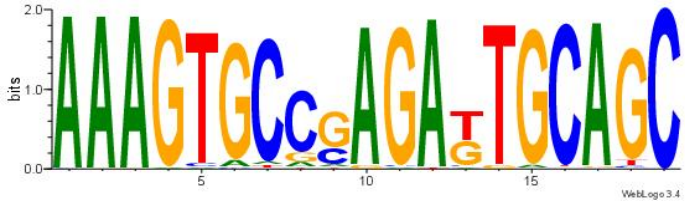

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

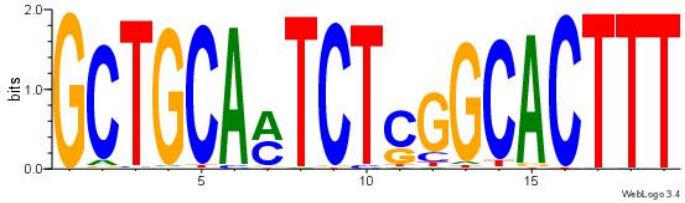

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0862363

Alignment:
CAGTCTGTGTCTTTTAATT
----AAGTWACTT------

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

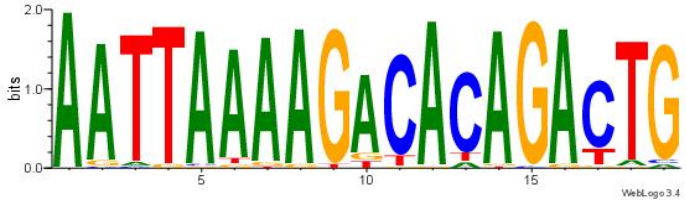

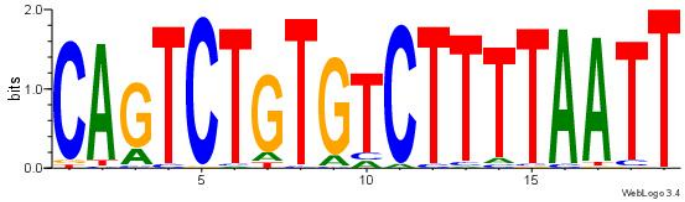

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0865946

Alignment:

```
GAAAGGGAACTCCCTGACCC
----AAGTWACTT-------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

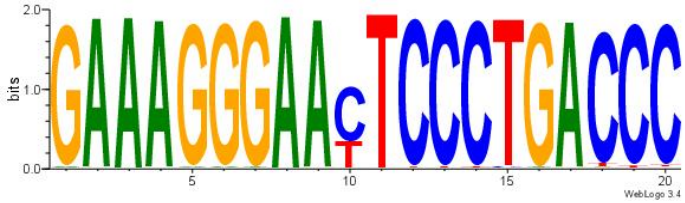

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

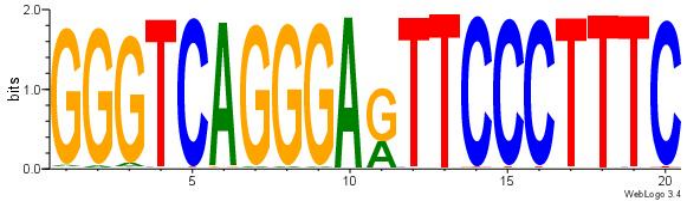

Dataset #: 1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0865968

Alignment:

```
GTTGTGAGGATTAAATGAG
--------AAGTWACTT--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

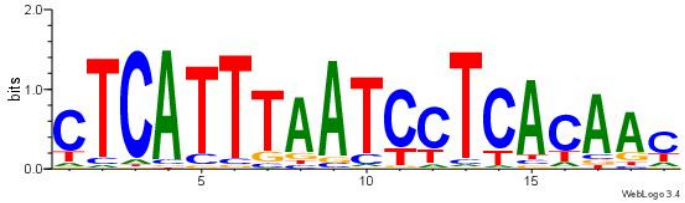

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

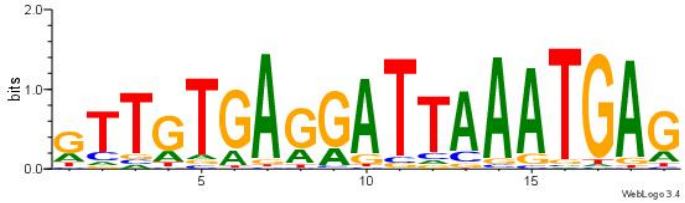

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9

Similarity score: 0.0873016

Alignment:
CTTCGCTGACTCTCTTT
-AAGTWACTT-------

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

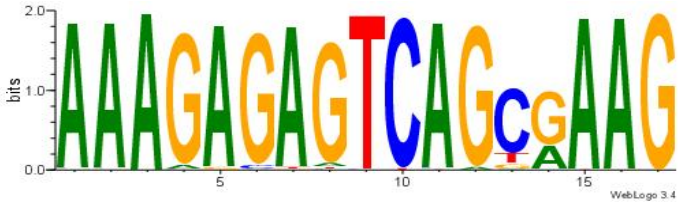

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

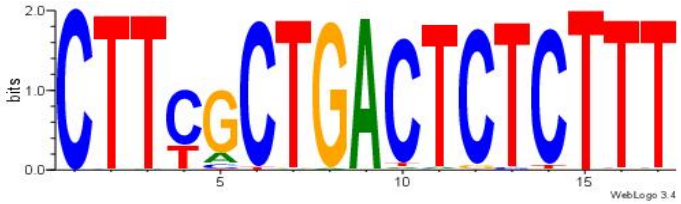

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 9
Similarity score: 0.0874143

Alignment:
CRTGAGCCACYGYRCCYGGC
---AAGTWACTT--------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

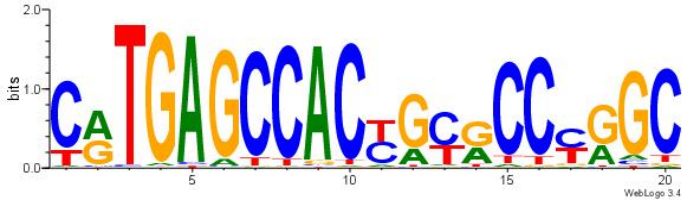

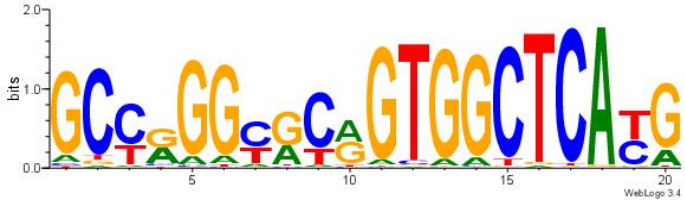

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0874895

Alignment:

```
AAAGCTGGAGCTATTATCTA
-----------AAGTWACTT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

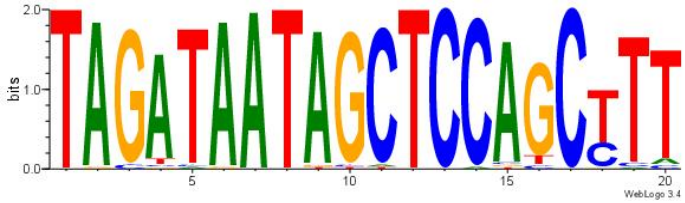

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

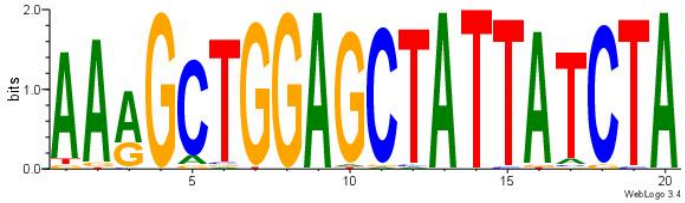

Dataset #: 1

Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0876268

Alignment:

```
TAGTTTTTAACAA
AAGTWACTT----
```

Original motif Consensus sequence: TAGTTTTTAACAA

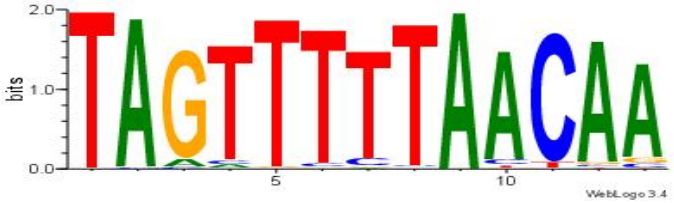

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

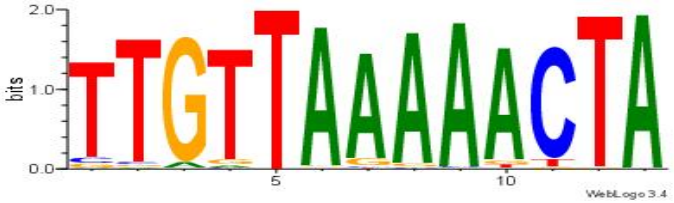

Dataset #:	1
Motif ID:	57
Motif name:	Motif 57
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0884666

Alignment:
AAATATTTATT
AAGTWACTT--

Original motif Consensus sequence: AAATATTTATT

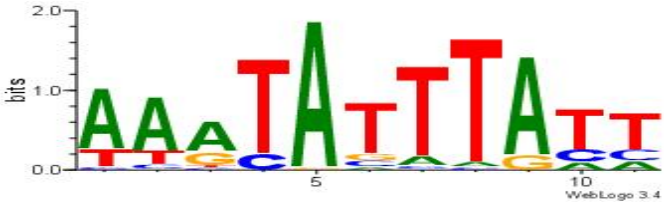

Reverse complement motif Consensus sequence: AATAAATATTT

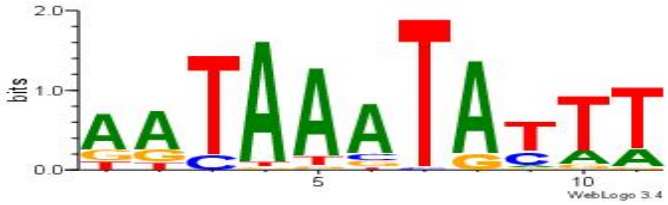

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0888933

Alignment:
CTACATGGACCTT
----AAGTWACTT

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

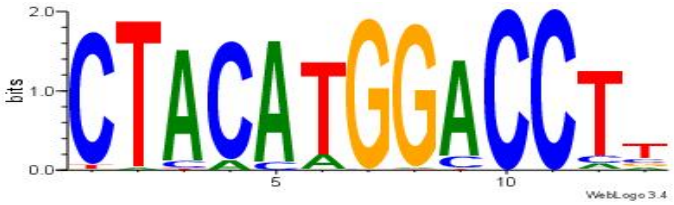

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0890057

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--AAGTWACTT--------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

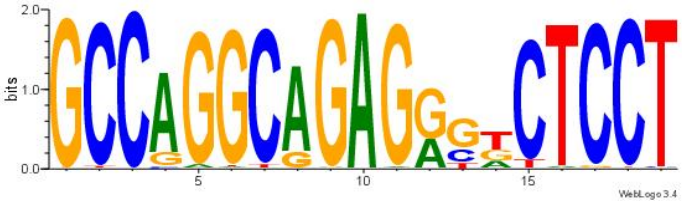

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

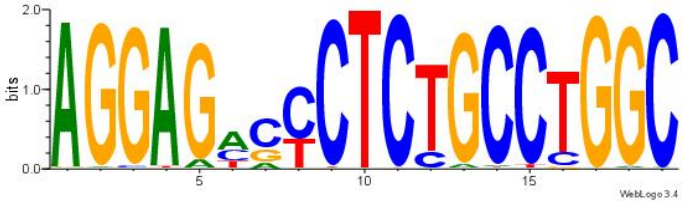

Dataset #:	1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0890265

Alignment:

```
CAAAGTCTTAACTCATT
-----AAGTWACTT---
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

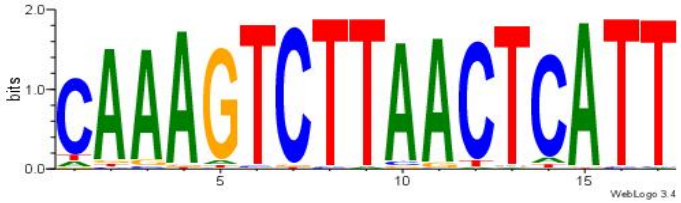

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.089056

Alignment:
AATAAACATGG
AAGTWACTT--

Original motif Consensus sequence: AATAAACATGG

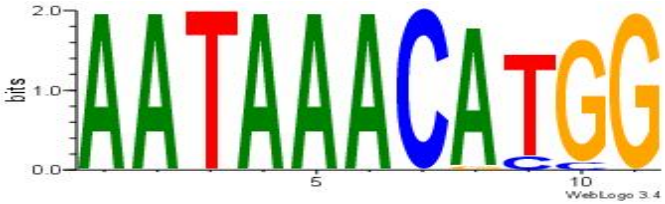

Reverse complement motif Consensus sequence: CCATGTTTATT

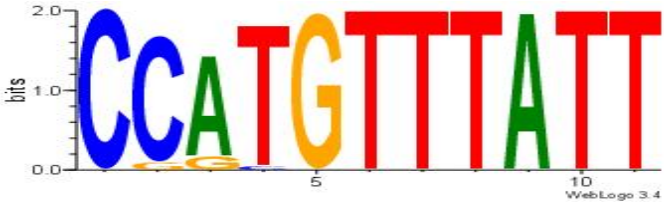

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0894226

Alignment:
AGTTGTAATTGGGAGACTT
----------AAGTWACTT

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

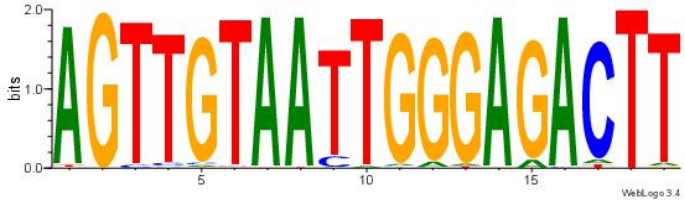

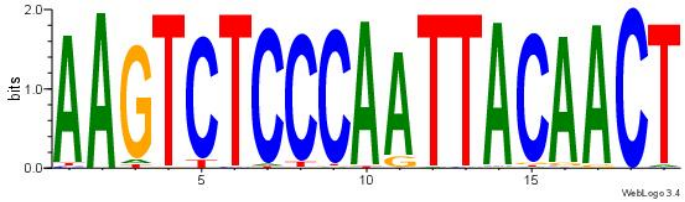

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.090029

Alignment:

```
TTGGTGGTCTCTTCACA
----AAGTWACTT----
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

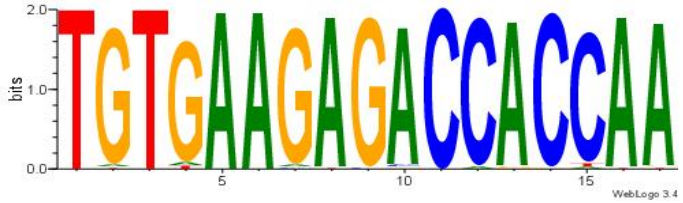

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

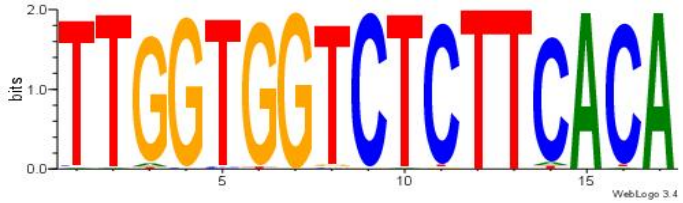

Dataset #: 1

Motif ID:	113
Motif name:	Motif 113
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0910003

Alignment:

```
CACTTCCTA
AAGTWACTT
```

Original motif Consensus sequence: CACTTCCTA

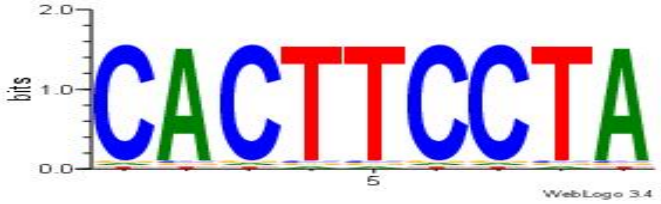

Reverse complement motif Consensus sequence: TAGGAAGTG

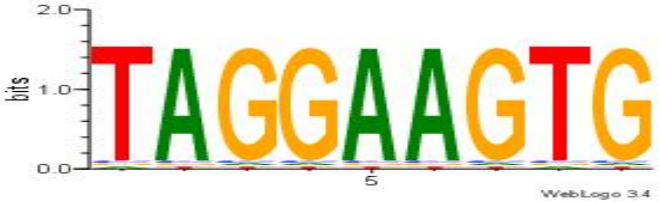

Dataset #: 1 Motif ID: 219 Motif name: Motif 219

Original motif Consensus sequence: CTGCAGCCTC

Reverse complement motif Consensus sequence: GAGGCTGCAG

Best Matches for Motif ID 219 (Highest to Lowest)

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0362773

Alignment:

```
GACCTGCAGCCCGCCATG
-----CTGCAGCCTC---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

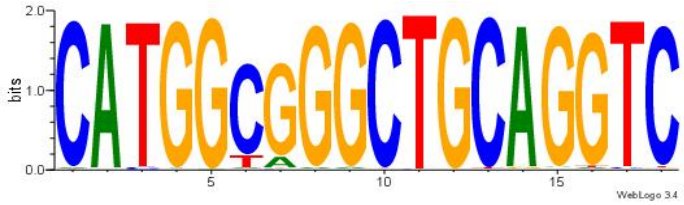

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

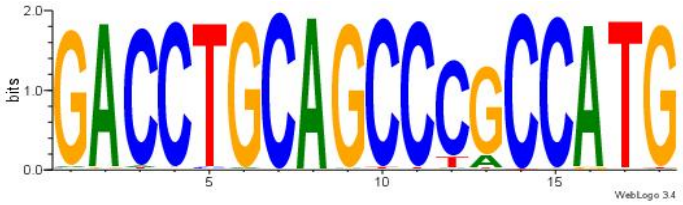

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0471481

Alignment:

```
GTGGGTGCAGTGCA
GAGGCTGCAG----
```

Original motif Consensus sequence: TGCACTGCACCCAC

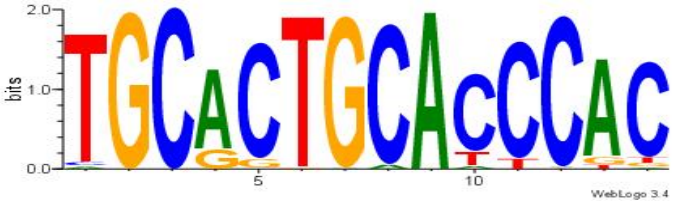

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

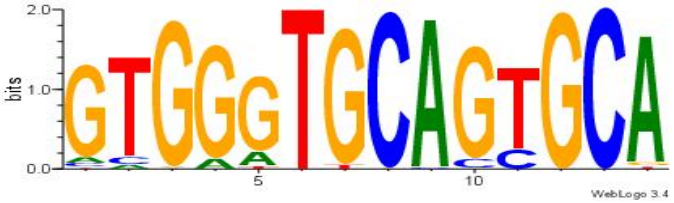

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0475708

Alignment:

```
TGGGGCTCCAGATG
-GAGGCTGCAG---
```

Original motif Consensus sequence: CATCTGGAGCCCCA

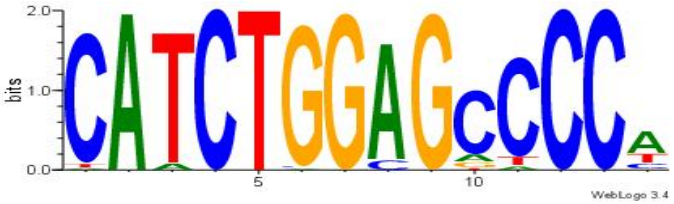

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

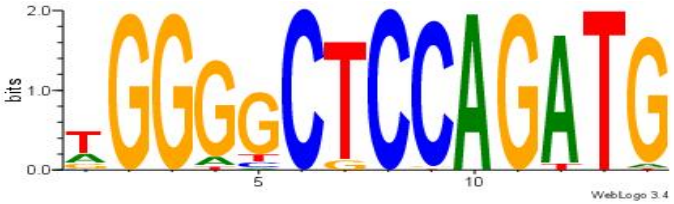

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.049186

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-GAGGCTGCAG--------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

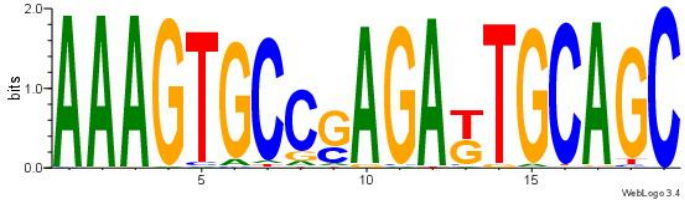

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

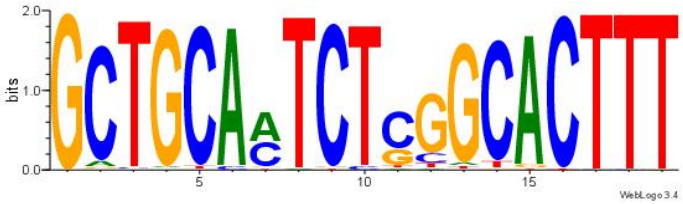

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0535162

Alignment:

```
MGCTGAGGCAGGAG
----GAGGCTGCAG
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

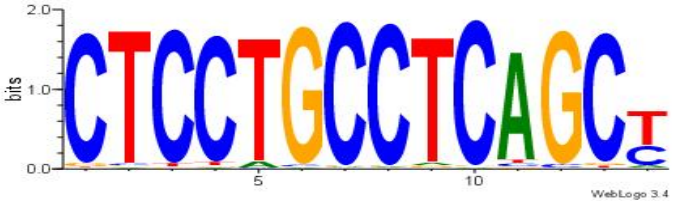

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

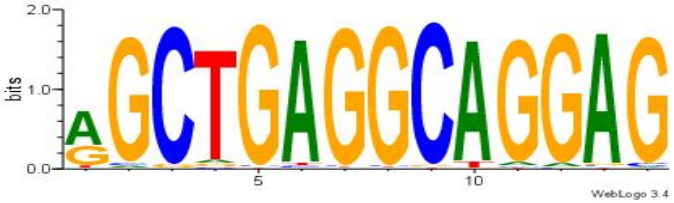

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0571492

Alignment:
TTGAGGAGGCAGTCTG
--GAGGCTGCAG----

Original motif Consensus sequence: CAGACTGCCTCCTCAA

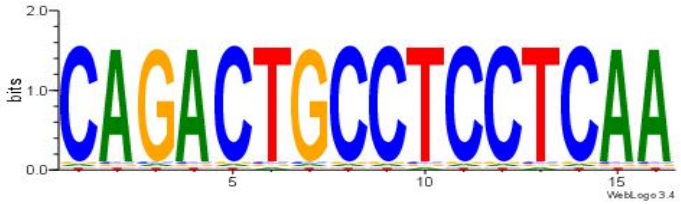

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

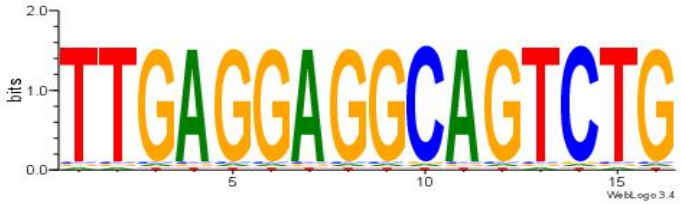

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0597593

Alignment:
GCTCACTGCAASCTC
-----CTGCAGCCTC

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

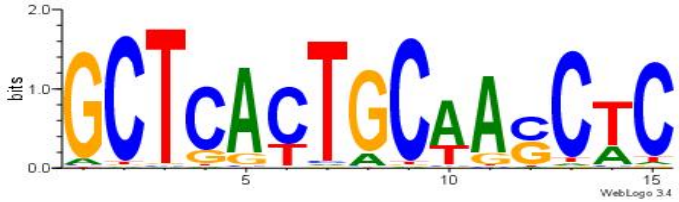

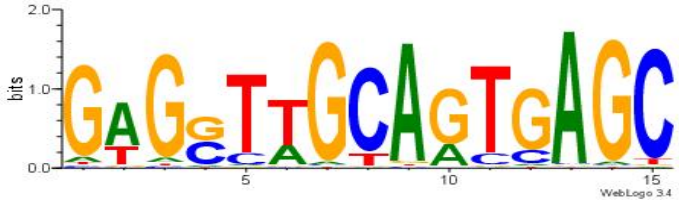

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0601395

Alignment:
TGHCCTGCKCCCACTGTCT
-----CTGCAGCCTC----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

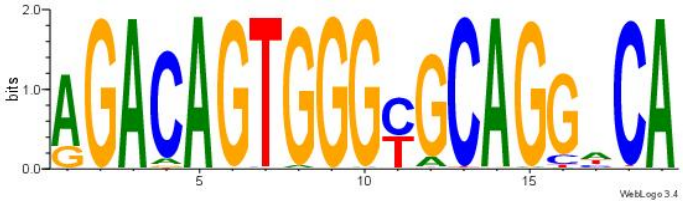

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

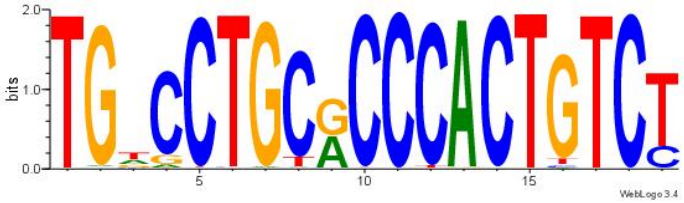

Dataset #: 1

Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0617389

Alignment:

```
CGCCGCCGCCGC
--CTGCAGCCTC
```

Original motif Consensus sequence: CGCCGCCGCCGC

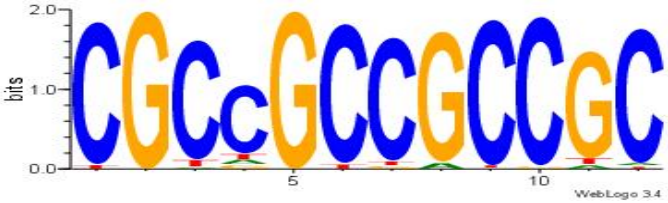

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

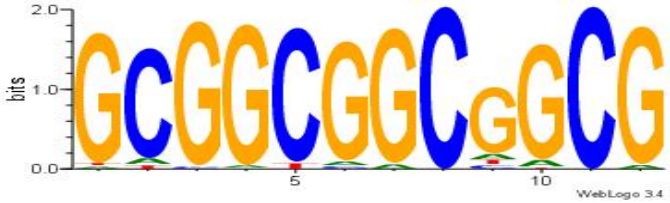

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0640858

Alignment:
CTASAACCTCCA
CTGCAGCCTC--

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

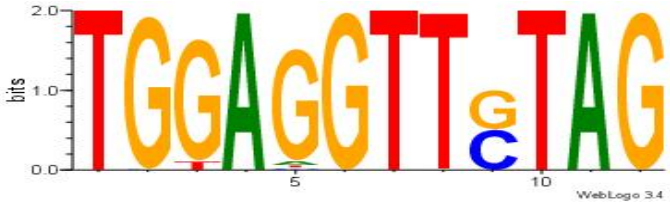

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0677996

Alignment:
CTCCTGCCTCAGCCTCCCRA
------CTGCAGCCTC----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

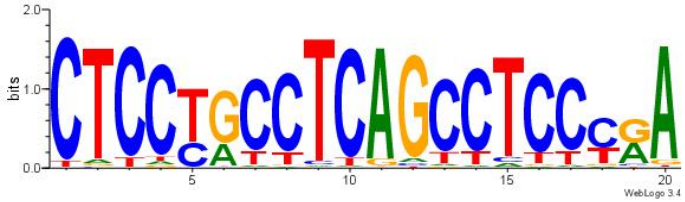

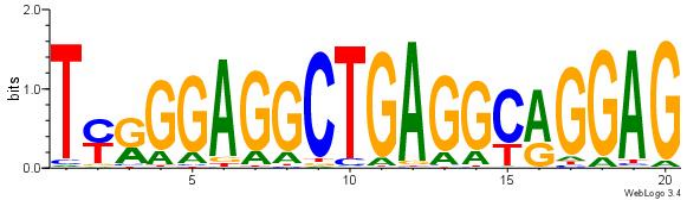

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0685634

Alignment:

```
TGCTGCTGCTGC
--CTGCAGCCTC
```

Original motif Consensus sequence: GCAGCAGCAGCA

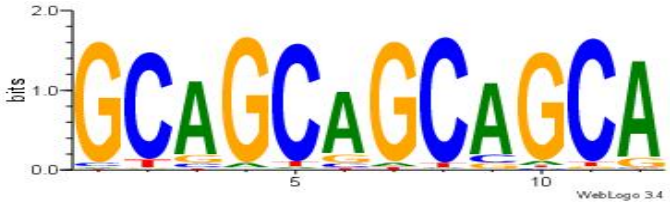

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

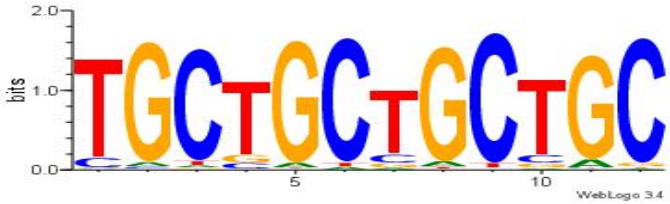

Dataset #:	1
Motif ID:	5

Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0694613

Alignment:

```
GGAGGCKGAGG
-GAGGCTGCAG
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0695218

Alignment:
CATTCTGGGGTCTGGAGGAY
-------GAGGCTGCAG---

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

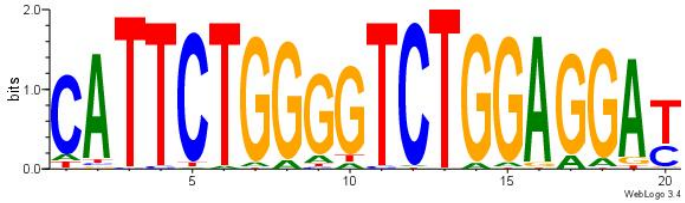

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

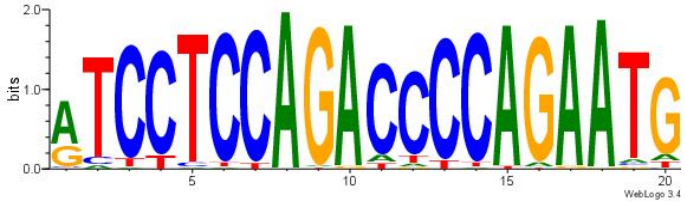

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0716273

Alignment:
GKCTGTACCCCCATTGTAT
-------CTGCAGCCTC--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

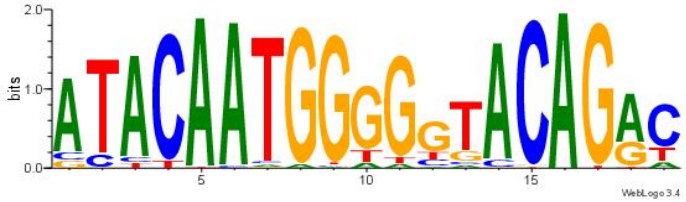

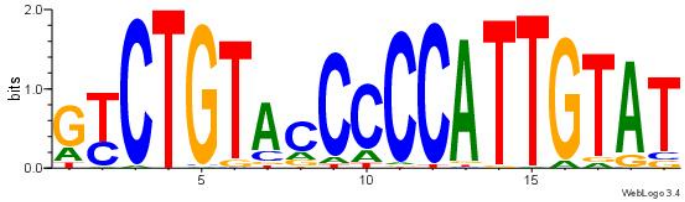

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0717266

Alignment:

```
TAGATAATAGCTCCAGCTTT
----------CTGCAGCCTC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

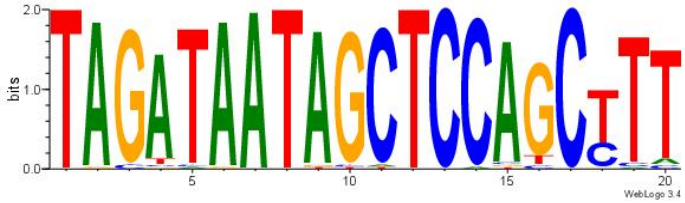

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

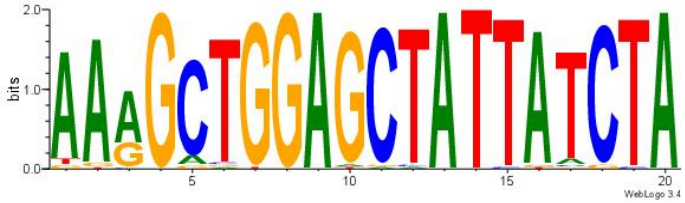

Dataset #: 1

Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0766778

Alignment:

```
CCTGTAATCCCAGC
---CTGCAGCCTC-
```

Original motif Consensus sequence: GCTGGGATTACAGG

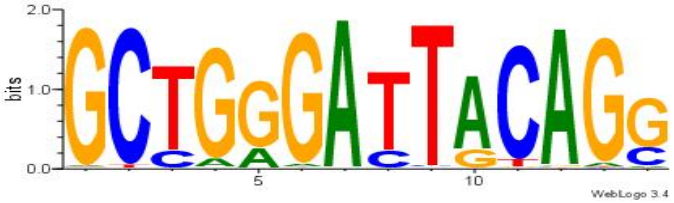

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0767977

Alignment:
GCCTTGCTGCCGC
---CTGCAGCCTC

Original motif Consensus sequence: GCCTTGCTGCCGC

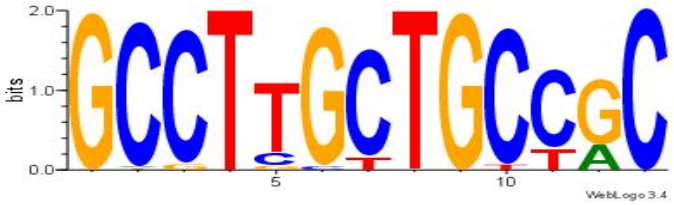

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

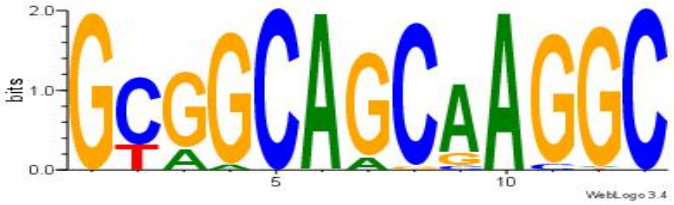

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0770549

Alignment:
CCCMKGGCACCCTCAGTCCT
----CTGCAGCCTC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

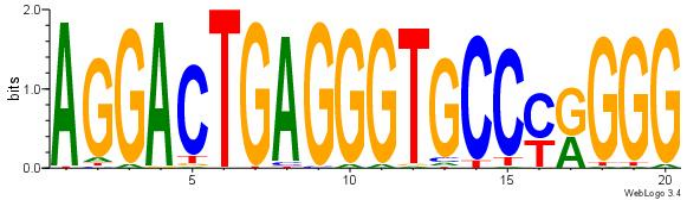

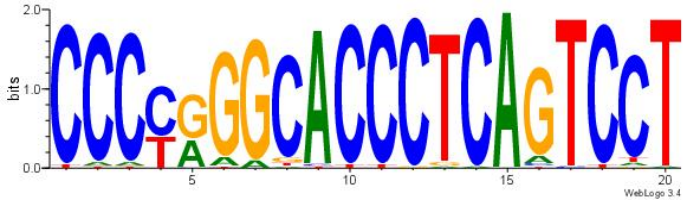

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0778486

Alignment:

```
GATGTGTCTGGAG
---GAGGCTGCAG
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

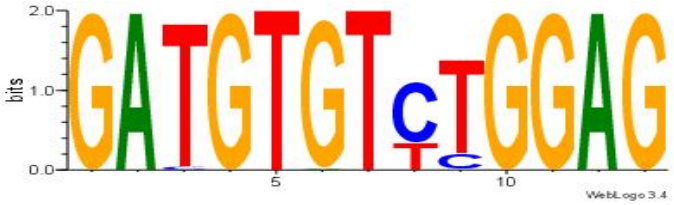

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0800113

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
GAGGCTGCAG----------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

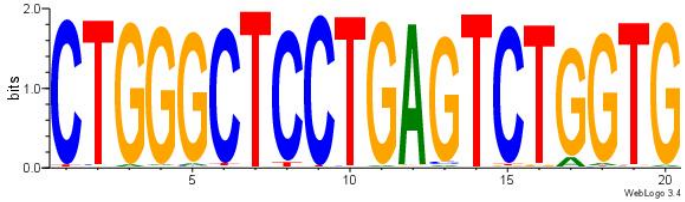

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

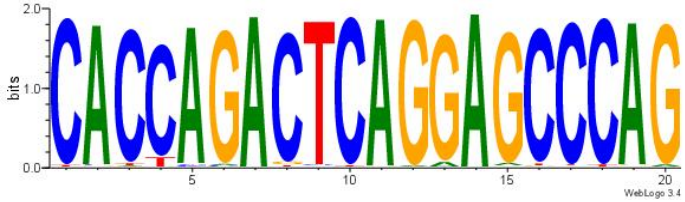

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0806408

Alignment:
AAGCTGAGGGAGCCGGCTCC
-----GAGGCTGCAG-----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

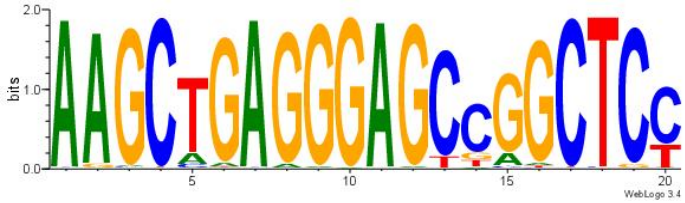

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

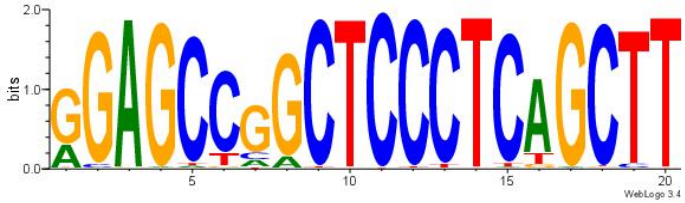

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0810257

Alignment:
CAGGCGGCTGGGAG
GAGGCTGCAG----

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

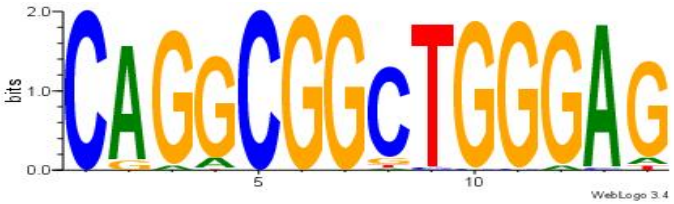

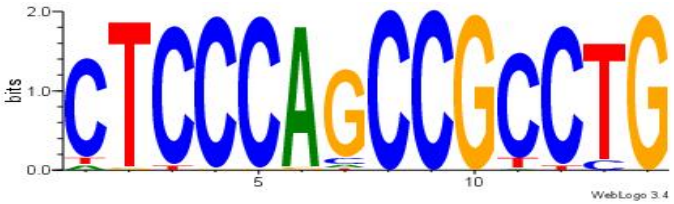

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0816456

Alignment:

```
GGGACWGCACAT
GAGGCTGCAG--
```

Original motif Consensus sequence: ATGTGCWGTCCC

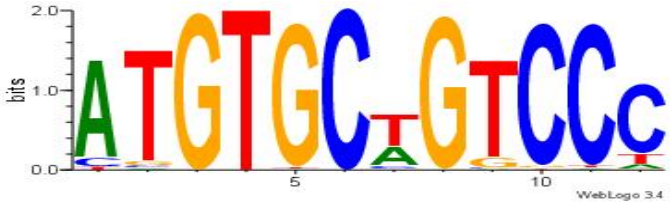

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	104

Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0823863

Alignment:

```
CTCCAGKTMCATCCATGTTG
----------CTGCAGCCTC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

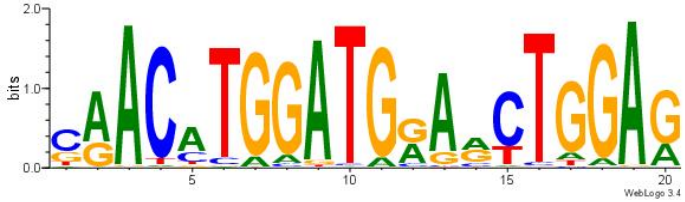

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

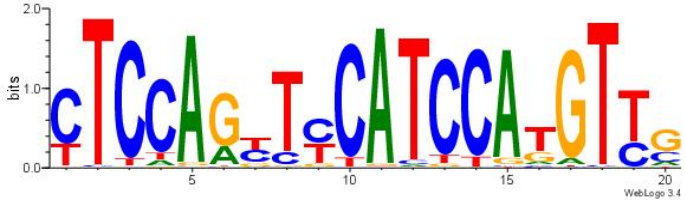

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0831681

Alignment:
ATGTGGAGGTGGAAGACAGT
-----GAGGCTGCAG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

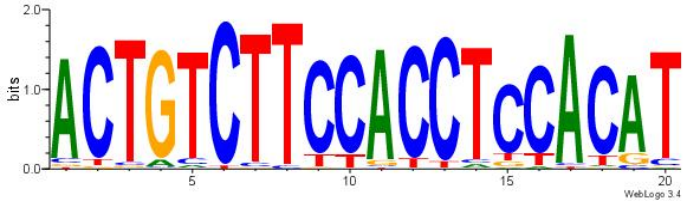

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

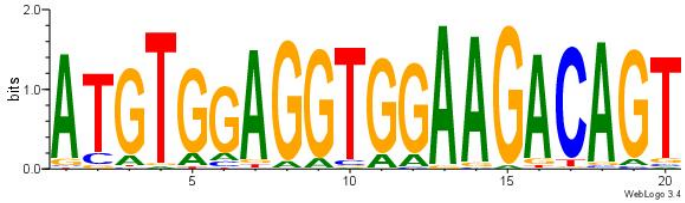

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0832048

Alignment:
ACCGAGMKMGCAGCTTCGGG
---CTGCAGCCTC-------

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

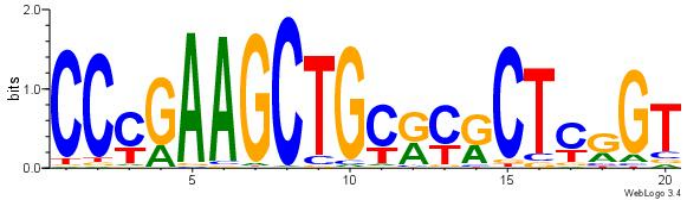

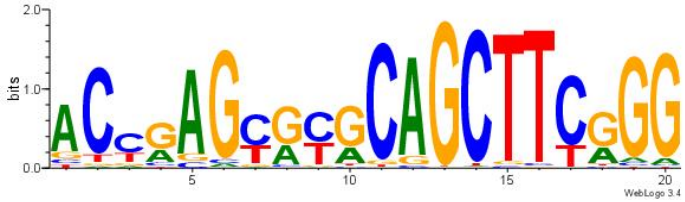

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0833206

Alignment:

```
TATGAGCCTGTAA
---GAGGCTGCAG
```

Original motif Consensus sequence: TATGAGCCTGTAA

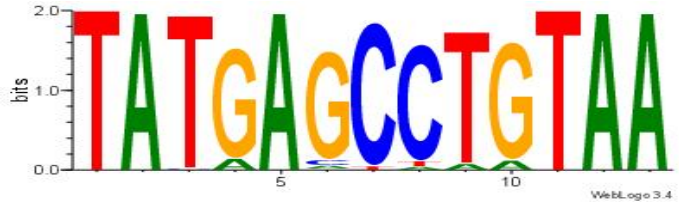

Reverse complement motif Consensus sequence: TTACAGGCTCATA

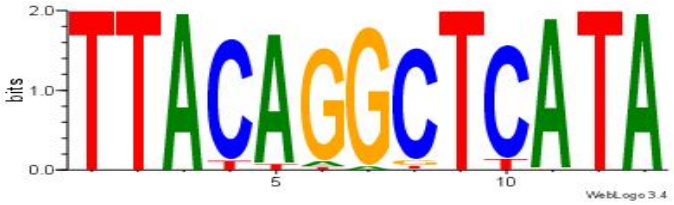

Dataset #:	1
Motif ID:	299

Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0843278

Alignment:

```
CCCTGCTAGAACCTCCAA
-----CTGCAGCCTC---
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

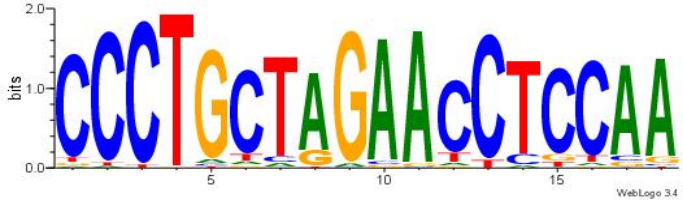

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

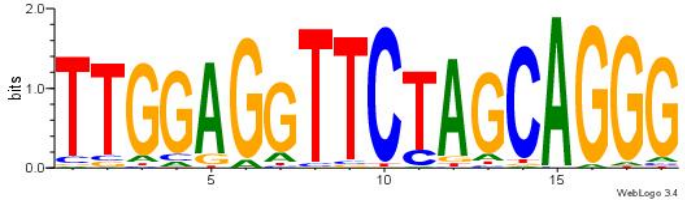

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0853699

Alignment:
CCAAGACYCCAGAC
--GAGGCTGCAG--

Original motif Consensus sequence: CCAAGACYCCAGAC

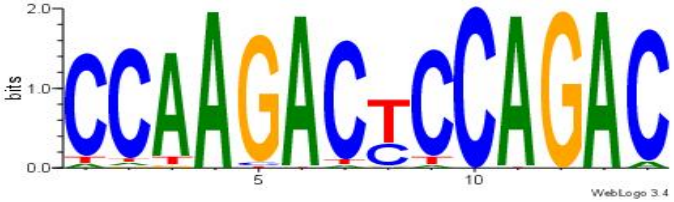

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

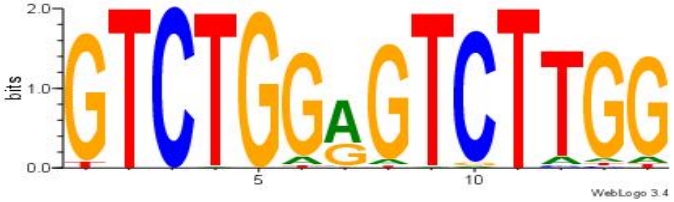

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0855914

Alignment:
GGTGGGGGGGTCAGCCCCC
----GAGGCTGCAG-----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

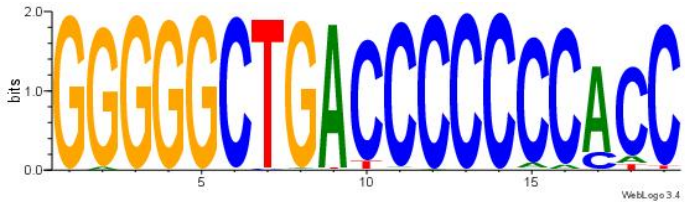

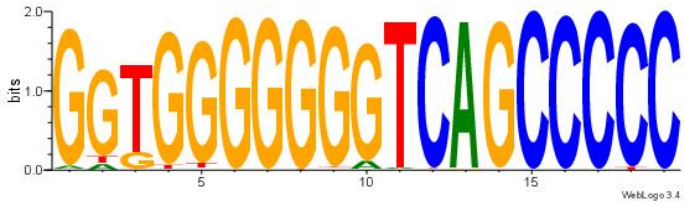

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0872152

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
---GAGGCTGCAG-------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

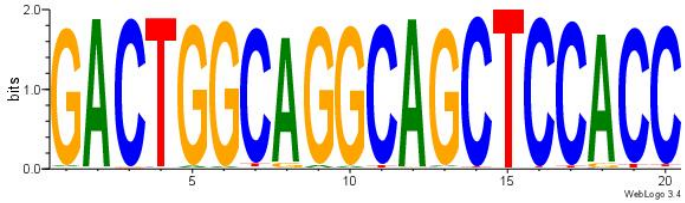

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

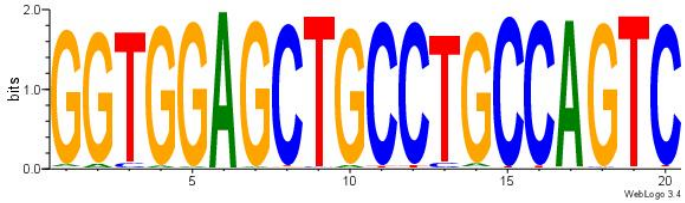

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0877045

Alignment:

```
GGCACTGCTGGGGGACCCAG
----------GAGGCTGCAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

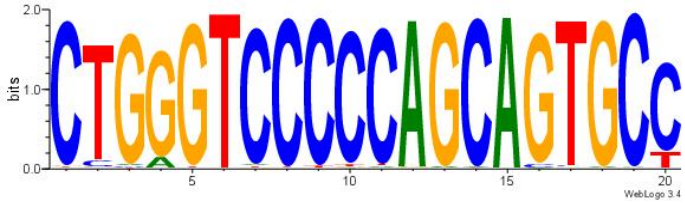

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

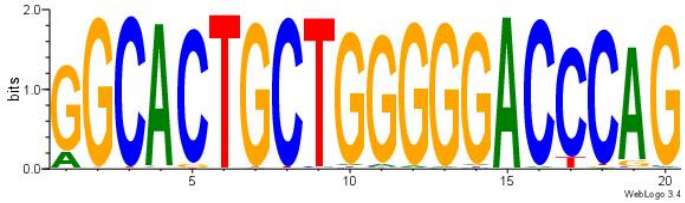

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0877391

Alignment:
GCTGGCCCGCAAGCGCCGCG
------CTGCAGCCTC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

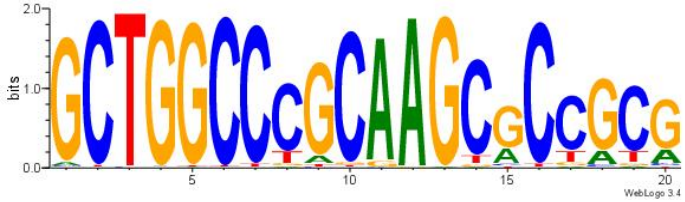

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

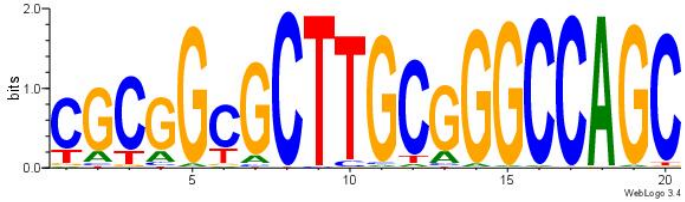

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.087943

Alignment:
TATTTACAGCTGCT
---CTGCAGCCTC-

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

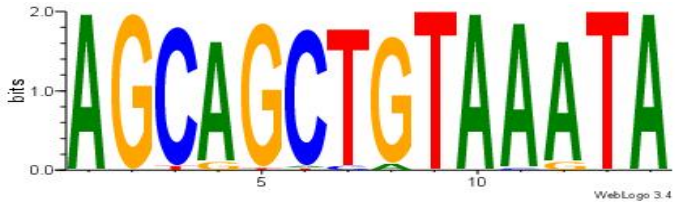

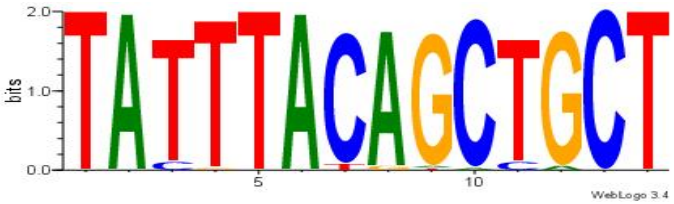

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0885377

Alignment:

```
CGCCCGGCCAGCCGC
-----CTGCAGCCTC
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

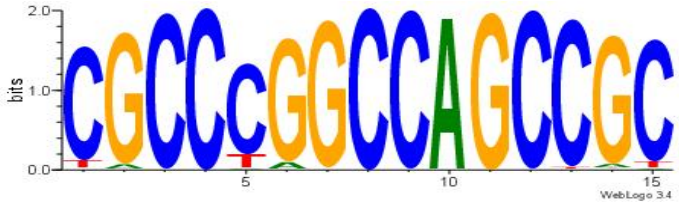

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

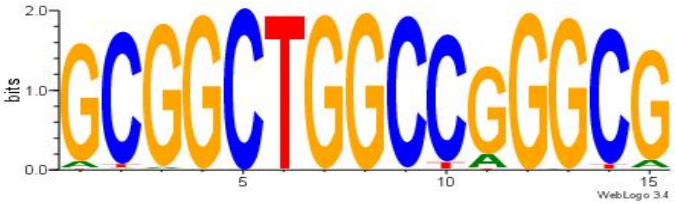

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0885567

Alignment:

```
GTAGACKGGAGCTGTTCCT
-GAGGCTGCAG--------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

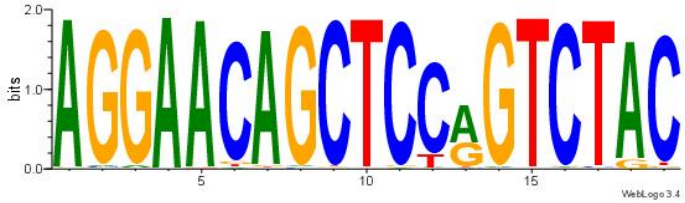

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

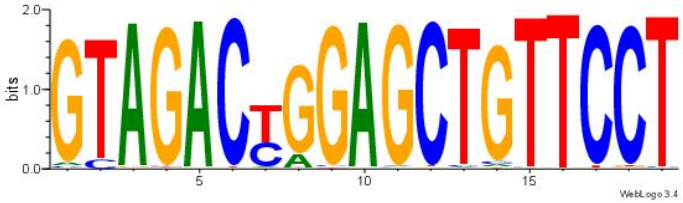

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0886171

Alignment:
AGGCGGCTGGGAGG
--GAGGCTGCAG--

Original motif Consensus sequence: AGGCGGCTGGGAGG

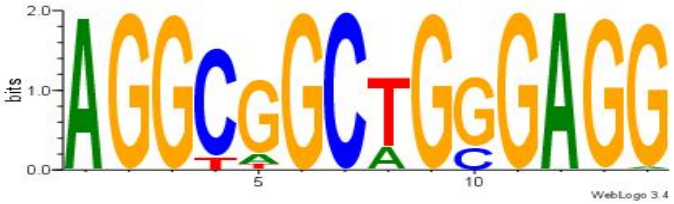

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0895639

Alignment:
AAGGAACAAACTCCRGACAC
----------CTGCAGCCTC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

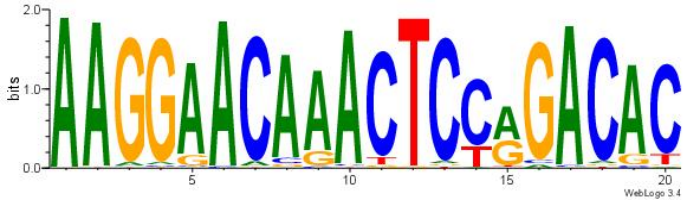

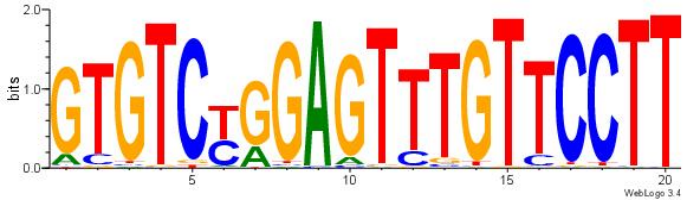

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0898199

Alignment:

```
GACTTCAAGAATGAAGCCG
---GAGGCTGCAG------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

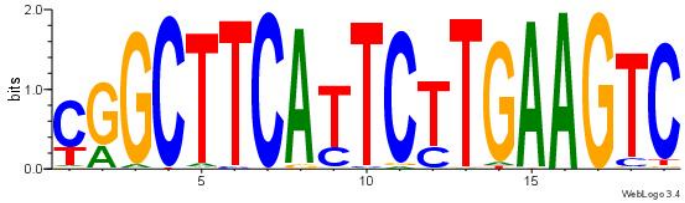

Dataset #:	1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.089872

Alignment:

```
TCAGGAGTGAAGCTGC
------CTGCAGCCTC
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

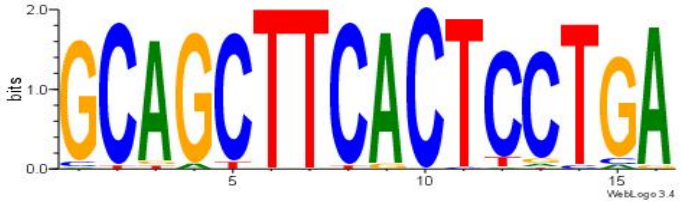

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

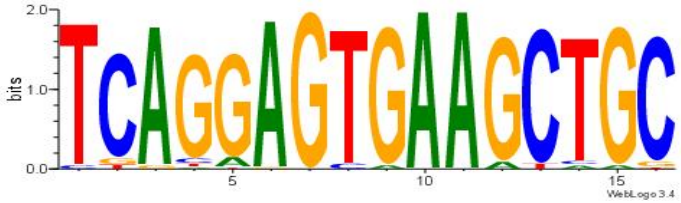

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0912672

Alignment:
GCTGGAGTGCAGTG
--GAGGCTGCAG--

Original motif Consensus sequence: CACTGCACTCCAGC

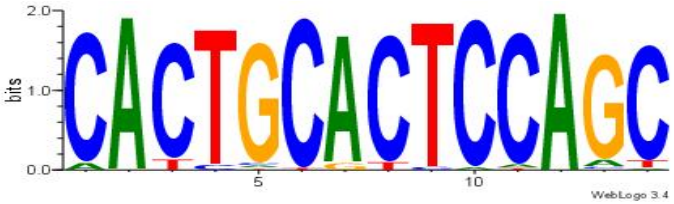

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

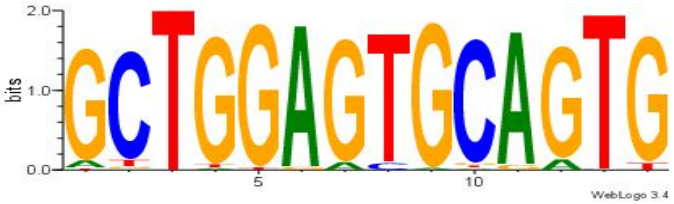

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0923849

Alignment:
GAATACCTCCTGAAGGACCT
-CTGCAGCCTC---------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

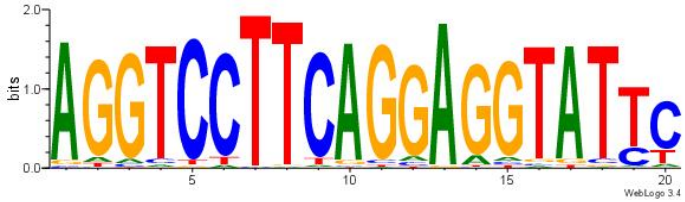

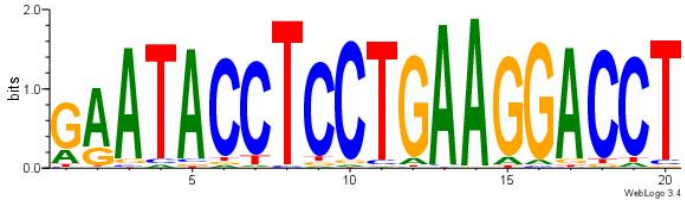

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0925847

Alignment:

```
TCKMGCCACTGCACTCCAGC
--CTGCAGCCTC--------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

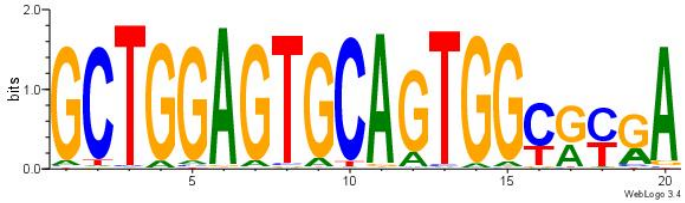

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

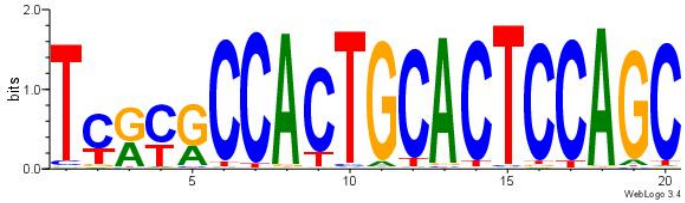

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0937192

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
------GAGGCTGCAG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

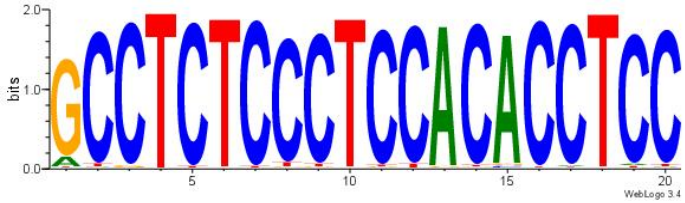

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

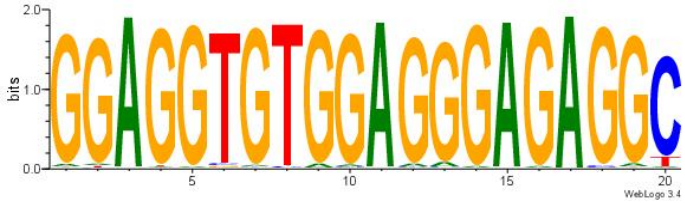

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.093798

Alignment:
BCVTCTGTCACCCC
CTGCAGCCTC----

Original motif Consensus sequence: GGGGTGACAGABGB

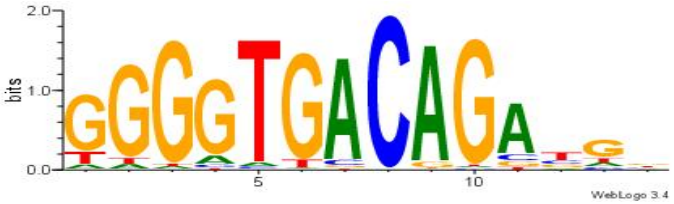

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

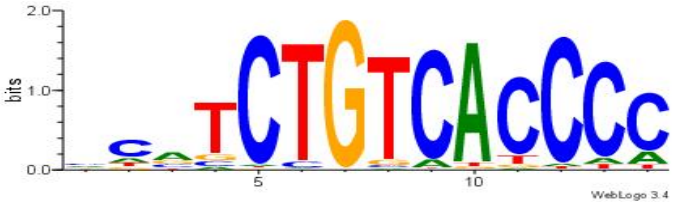

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0941066

Alignment:
TGATGGGTGCACCAAA
--GAGGCTGCAG----

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

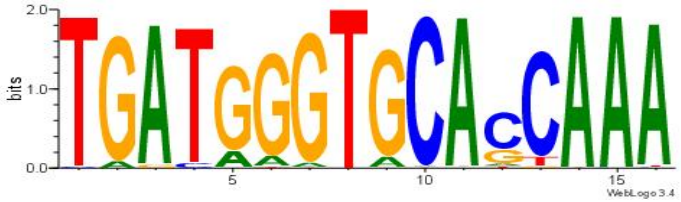

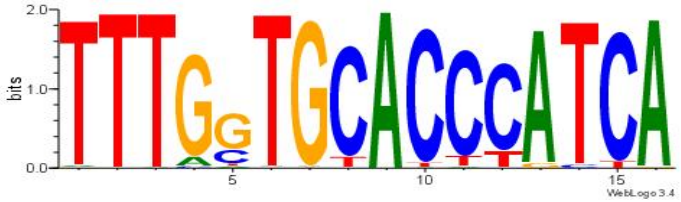

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0943764

Alignment:

```
TCTGGAGTGGACCTCCAGCA
--------GAGGCTGCAG--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

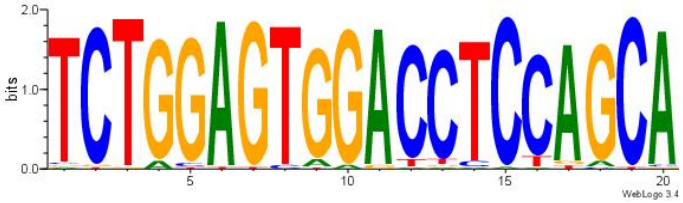

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

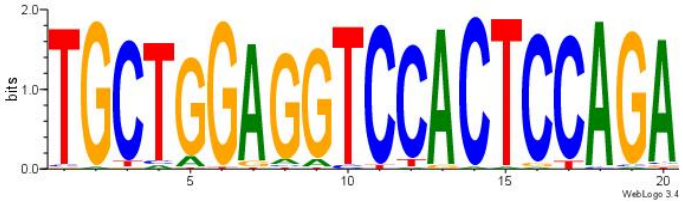

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0949007

Alignment:

```
ACTCAGCCCRCCTGCACCC
--GAGGCTGCAG-------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

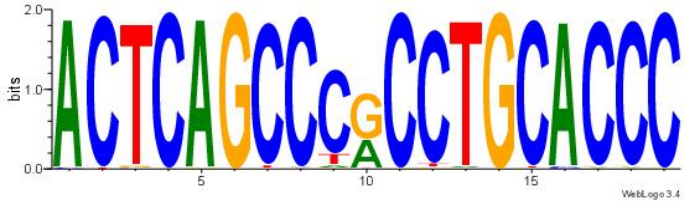

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

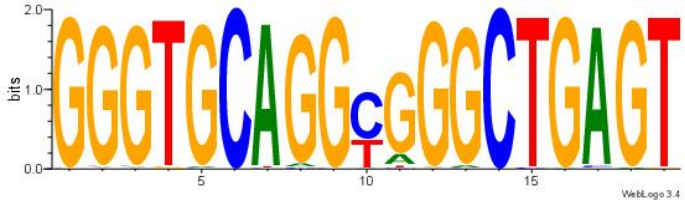

Dataset #:	1
Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0951068

Alignment:
CTGYGTCCCCA
CTGCAGCCTC-

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

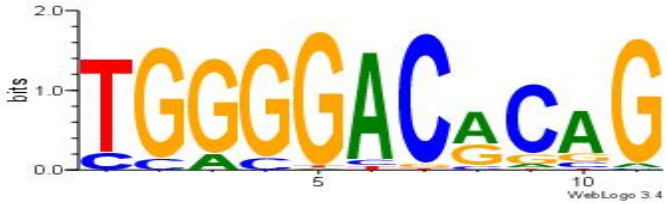

Dataset #: 1 Motif ID: 220 Motif name: Motif 220

Original motif Consensus sequence: TGCACTGCACCCAC

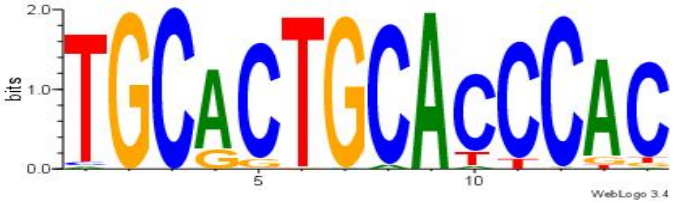

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

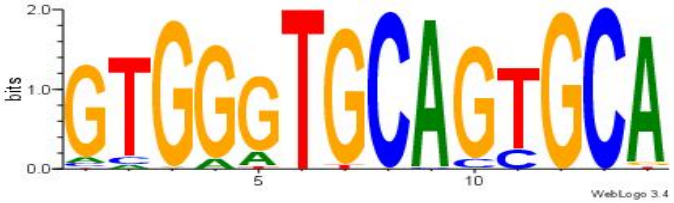

Best Matches for Motif ID 220 (Highest to Lowest)

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number: 6
Number of overlap: 14
Similarity score: 0.0478061

Alignment:
TGHCCTGCKCCCACTGTCT
-----TGCACTGCACCCAC

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

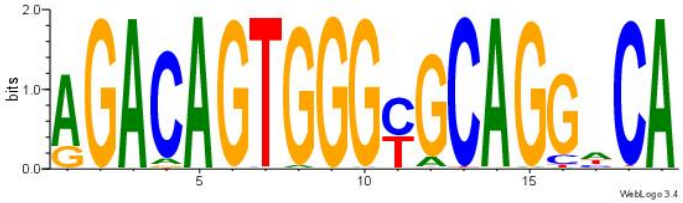

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

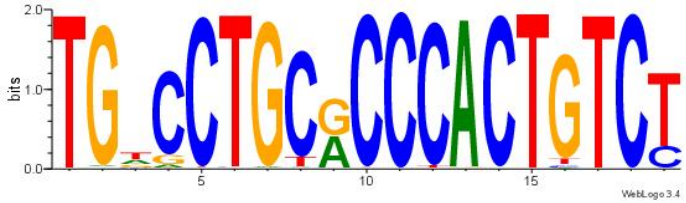

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0840846

Alignment:
TTTGGTGCACCCATCA
TGCACTGCACCCAC--

Original motif Consensus sequence: TGATGGGTGCACCAAA

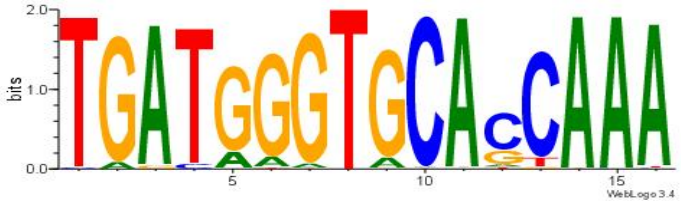

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

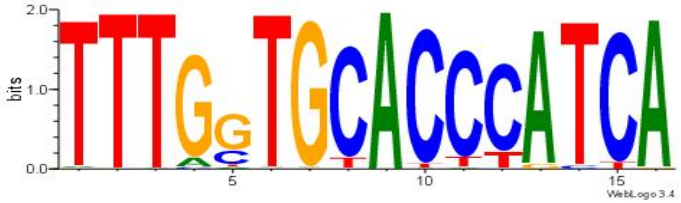

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0843879

Alignment:

```
GAGSTTGCAGTGAGC
GTGGGTGCAGTGCA-
```

Original motif Consensus sequence: GCTCACTGCAASCTC

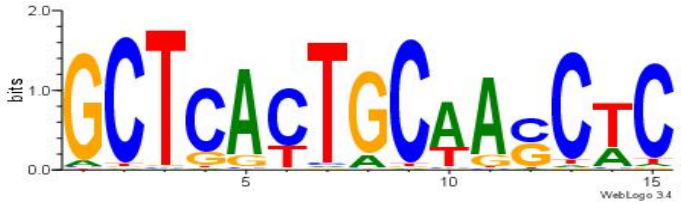

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

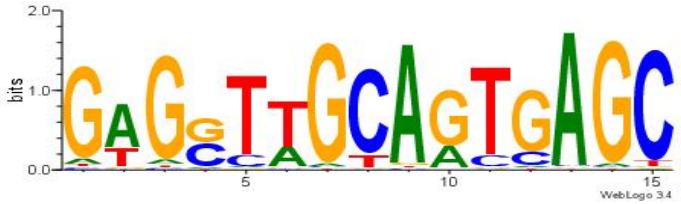

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0884996

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
----GTGGGTGCAGTGCA--
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

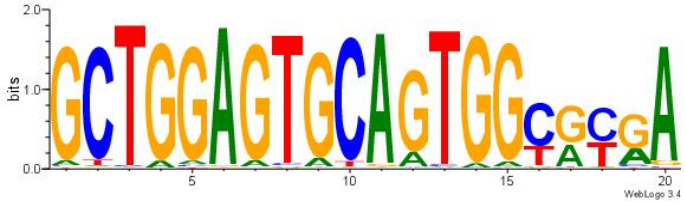

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

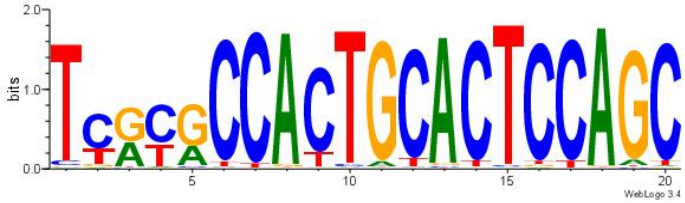

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.0914277

Alignment:
TGCTGGAGGTCCACTCCAGA
----GTGGGTGCAGTGCA--

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

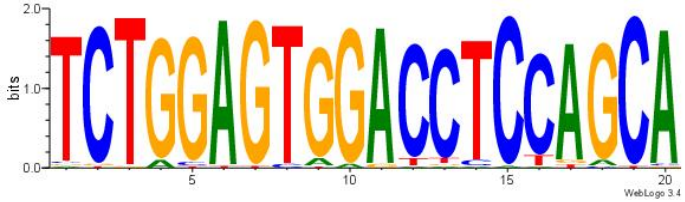

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

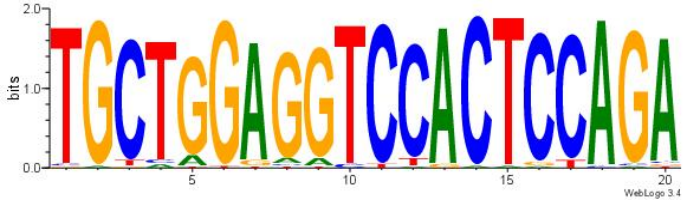

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0976301

Alignment:
GCTGCARTCTCGGCACTTT
---TGCACTGCACCCAC--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

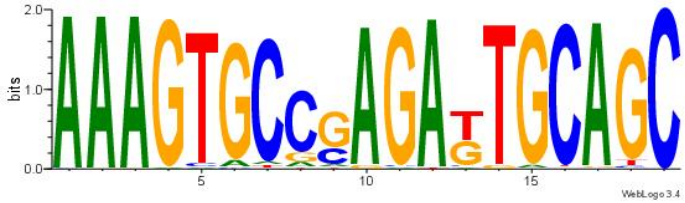

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

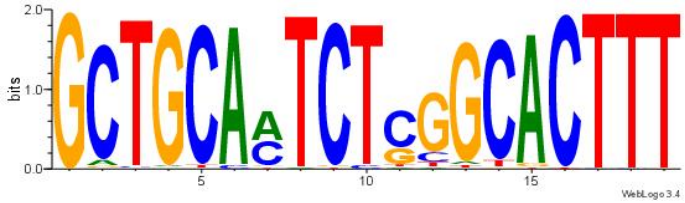

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0991059

Alignment:

```
CCGCGGGGCAGGGCTCG
-GTGGGTGCAGTGCA--
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

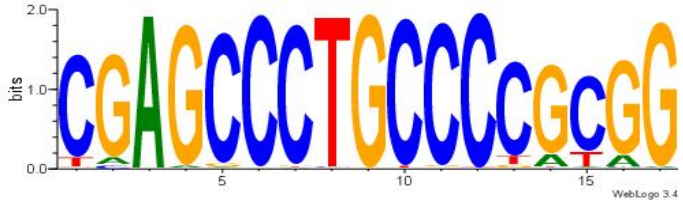

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

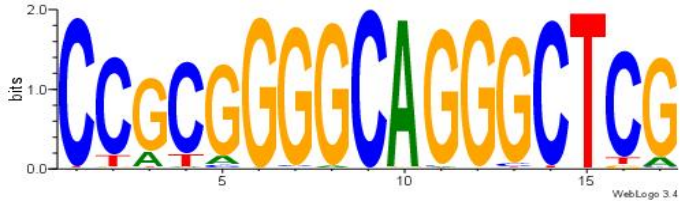

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.09999

Alignment:

```
CCCMKGGCACCCTCAGTCCT
TGCACTGCACCCAC------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

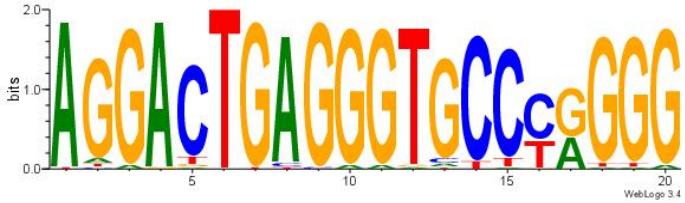

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

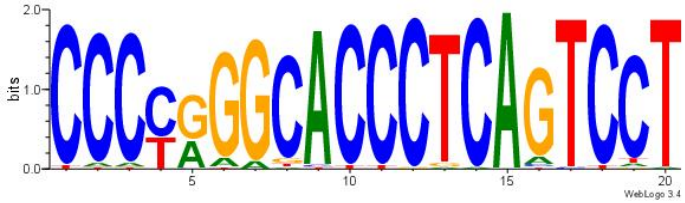

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.101688

Alignment:
GCTGGCCCGCAAGCGCCGCG
--TGCACTGCACCCAC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

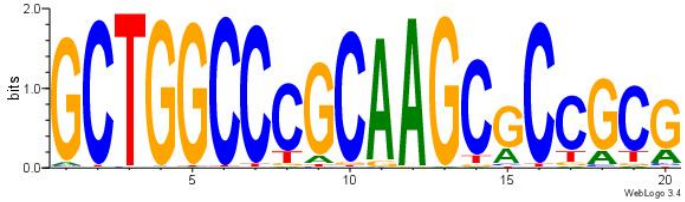

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

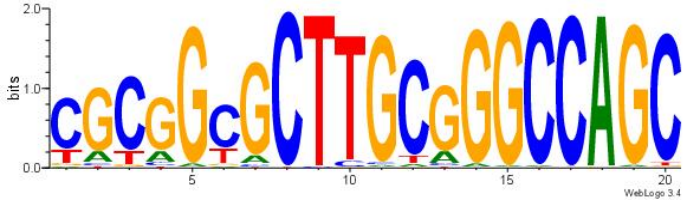

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.102853

Alignment:
ATGTGGAGGTGGAAGACAGT
----GTGGGTGCAGTGCA--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

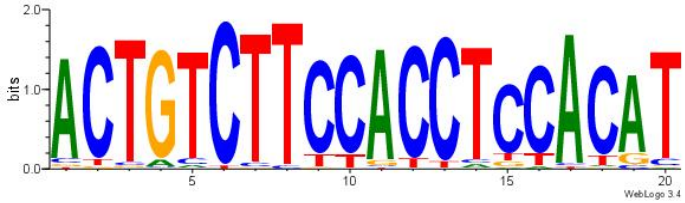

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

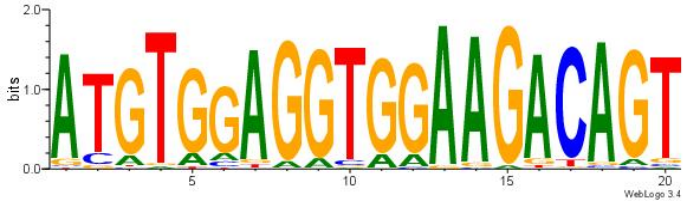

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.103135

Alignment:

```
GGTGGGAGAAATACCT
-GTGGGTGCAGTGCA-
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

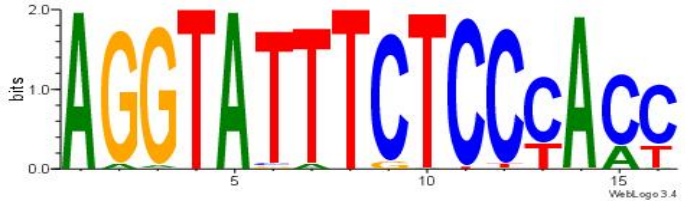

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

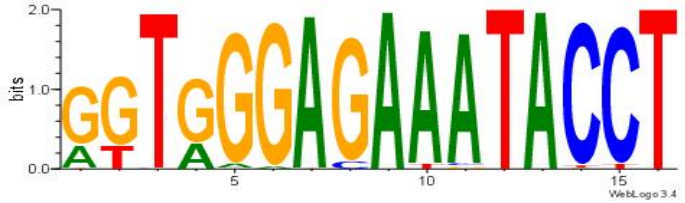

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.103853

Alignment:

```
CRTGAGCCACYGYRCCYGGC
-----TGCACTGCACCCAC-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

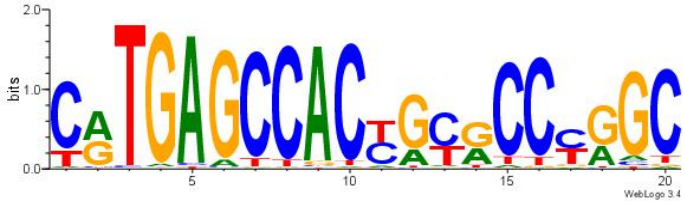

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

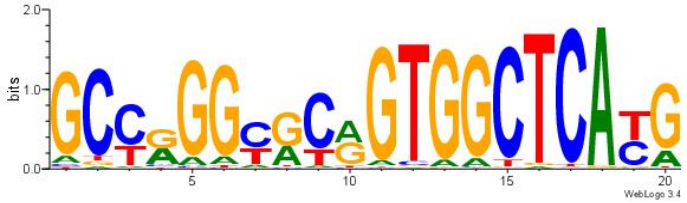

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.104787

Alignment:
CAGACTGCCTCCTCAA
TGCACTGCACCCAC--

Original motif Consensus sequence: CAGACTGCCTCCTCAA

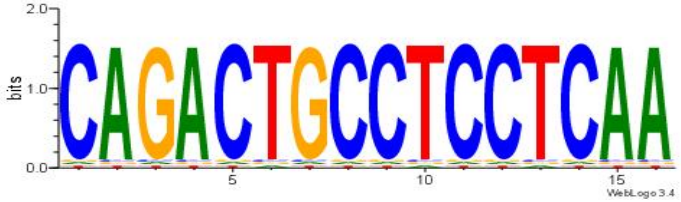

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

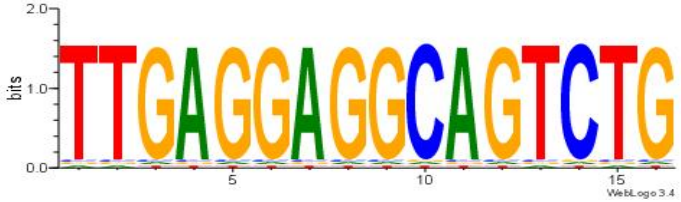

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.105806

Alignment:
GGGGGCTGACCCCCCCACC
-TGCACTGCACCCAC----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

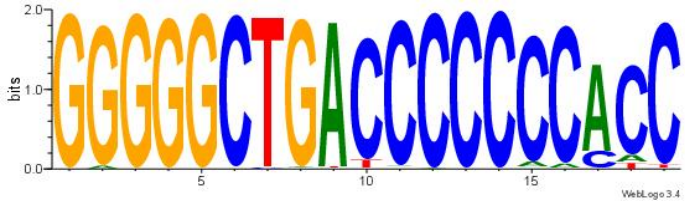

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

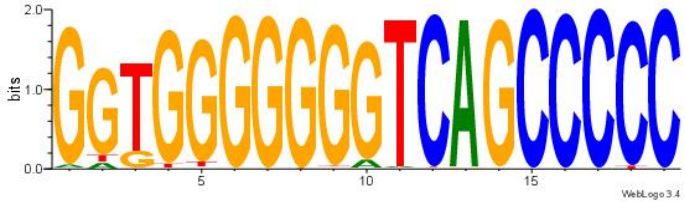

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.106007

Alignment:

```
GCCTCTCCCTCCACACCTCC
TGCACTGCACCCAC------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

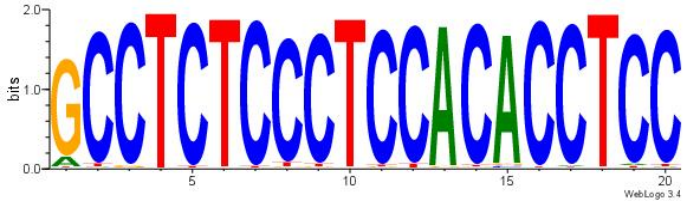

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

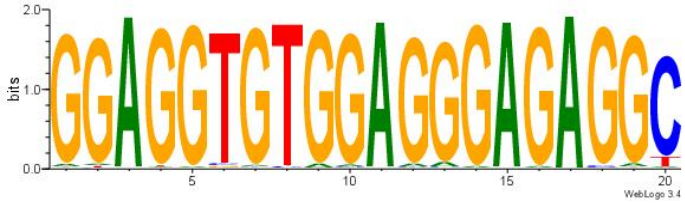

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.106538

Alignment:

```
CCGCTGCACTGTGGGAGCCC
----TGCACTGCACCCAC--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

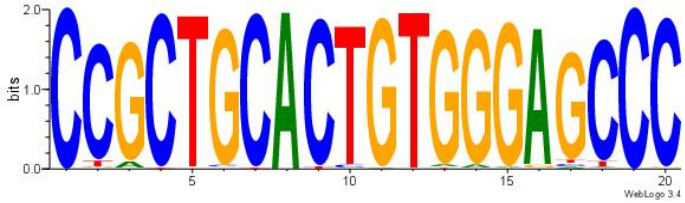

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

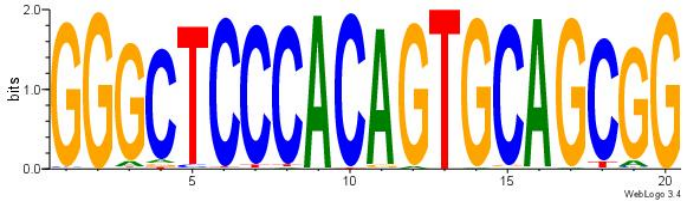

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.107346

Alignment:
AGCTGTGAGAAGAGGGCCAC
----GTGGGTGCAGTGCA--

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

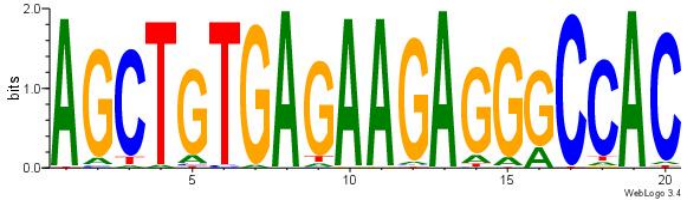

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

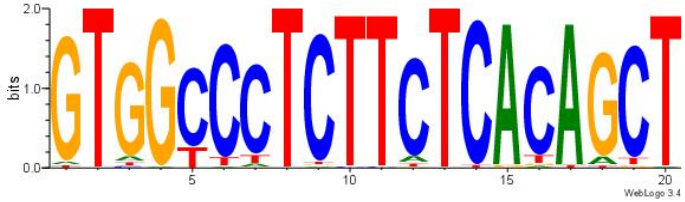

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.109038

Alignment:
AAGCAGGGCGAGGCATTGCC
GTGGGTGCAGTGCA------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

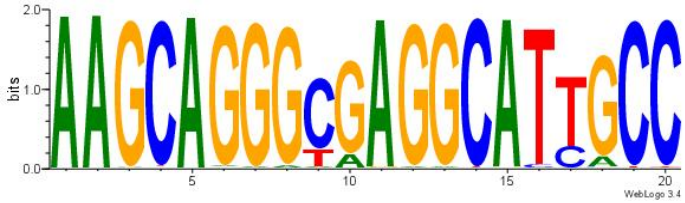

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

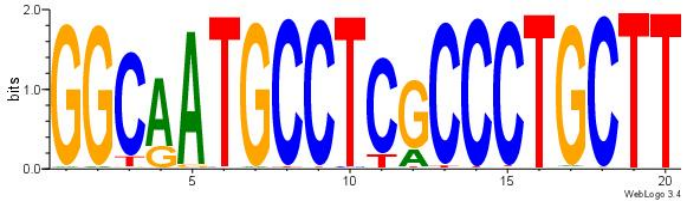

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.109287

Alignment:

```
TTGGTAGGATCCGTGATGCC
---GTGGGTGCAGTGCA---
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

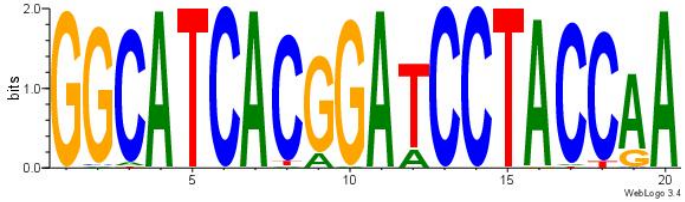

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

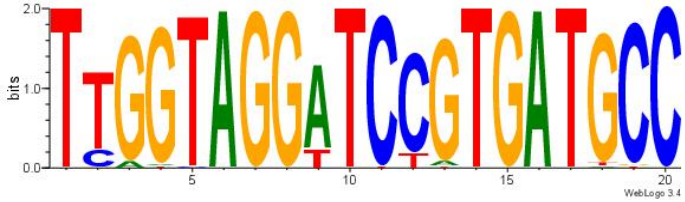

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.110944

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-GTGGGTGCAGTGCA-----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

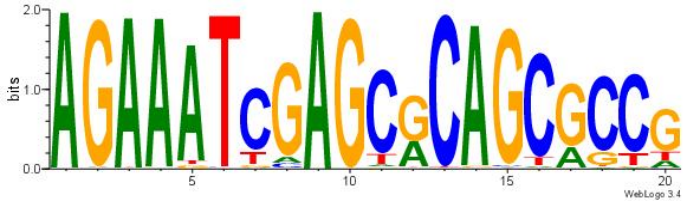

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

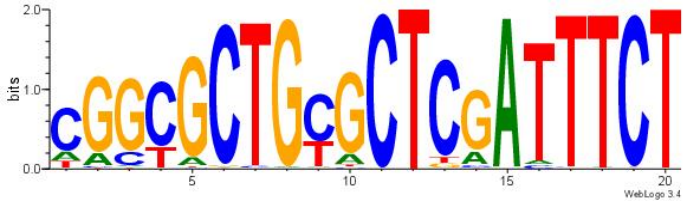

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.113566

Alignment:
TGGATGGATGGATGGAT
---GTGGGTGCAGTGCA

Original motif Consensus sequence: ATCCATCCATCCATCCA

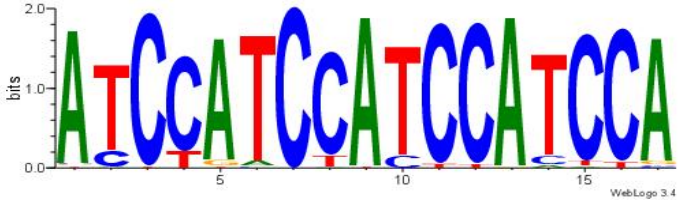

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.113877

Alignment:
GGCTGAGGAGTGCG
GTGGGTGCAGTGCA

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTG

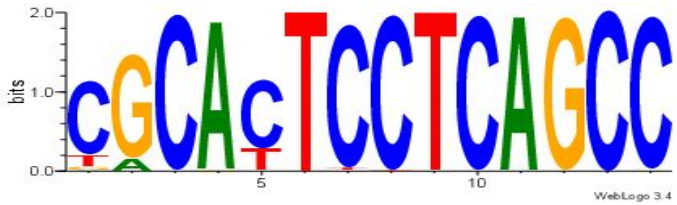

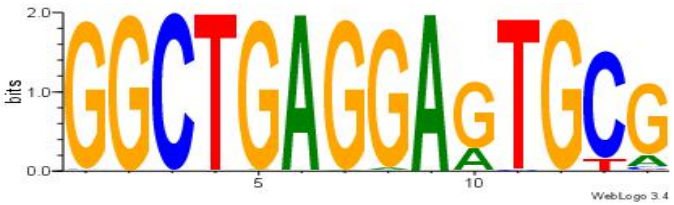

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.114085

Alignment:

```
ATACAATGGGGGTACAGRC
GTGGGTGCAGTGCA-----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

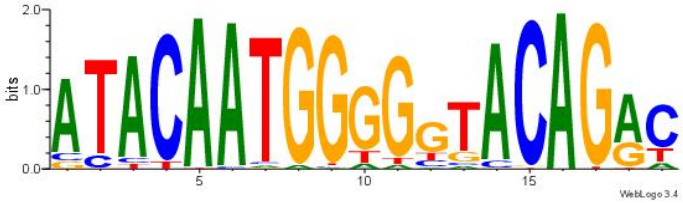

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

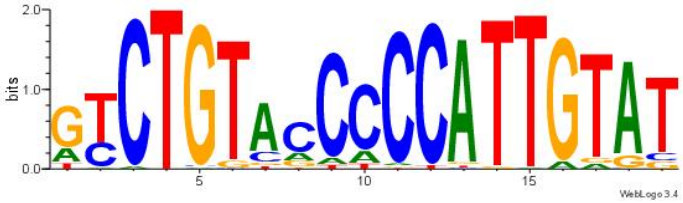

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.114288

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
GTGGGTGCAGTGCA------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

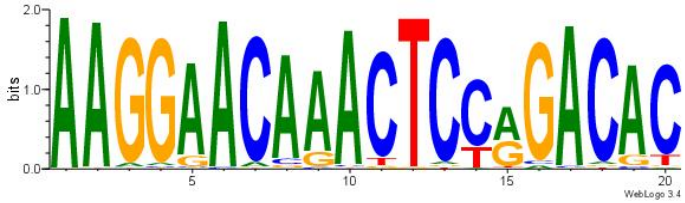

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

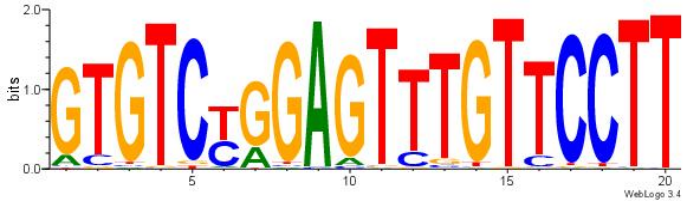

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.115042

Alignment:
CTGACTGGGAGACACCTCCC
-----TGCACTGCACCCAC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

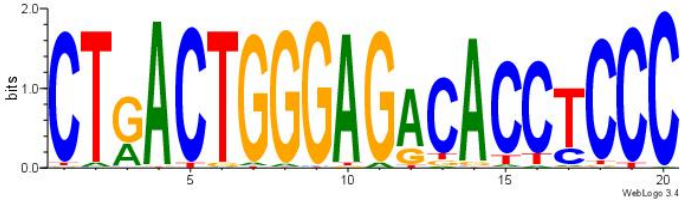

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

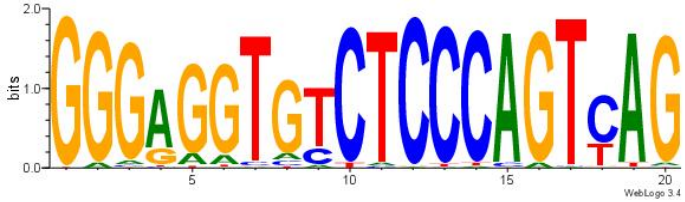

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.115911

Alignment:
AWTKKTGGTTKCCAGKGGCT
----GTGGGTGCAGTGCA--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

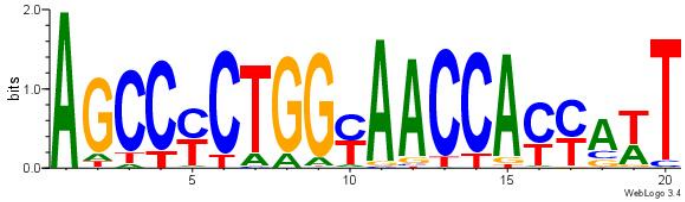

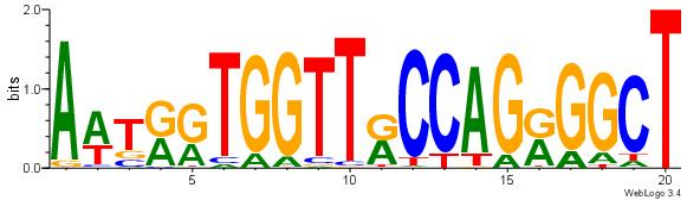

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.115923

Alignment:

```
ATGGAATAYTATTCAGCCAT
------TGCACTGCACCCAC
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

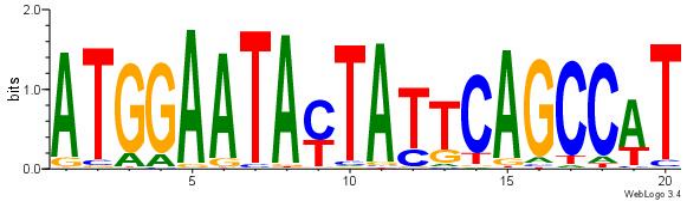

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

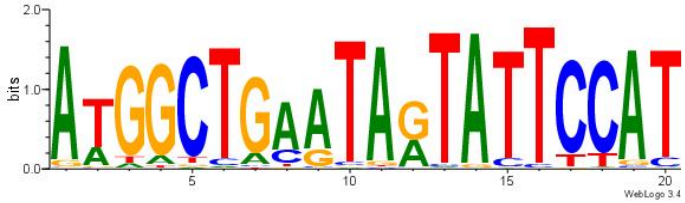

Dataset #: 1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.115963

Alignment:

```
CTTGCGCTTCCCRRGTGA
--TGCACTGCACCCAC--
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

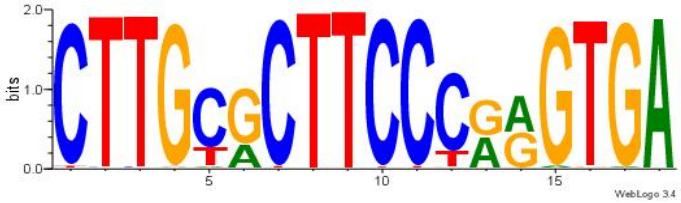

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

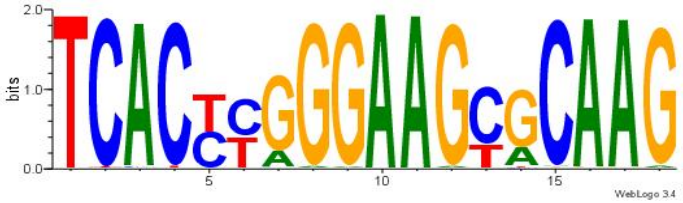

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.116414

Alignment:
CTTGGGTGGTCGATGGGAC
----GTGGGTGCAGTGCA-

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

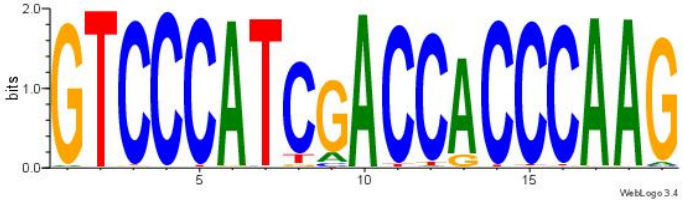

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

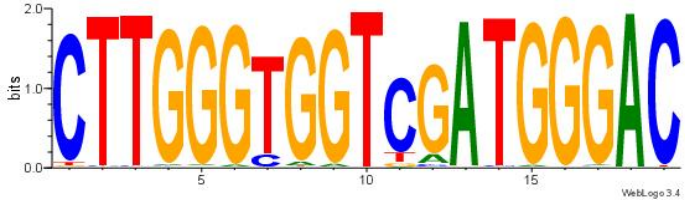

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.116445

Alignment:
HAGTGGKATTGCTGGATCAT
--GTGGGTGCAGTGCA----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

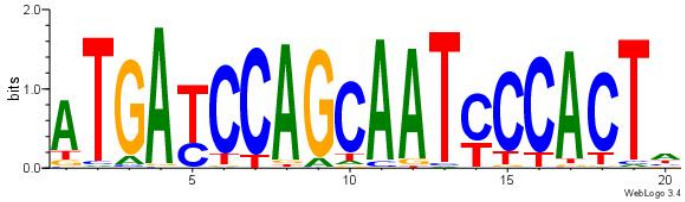

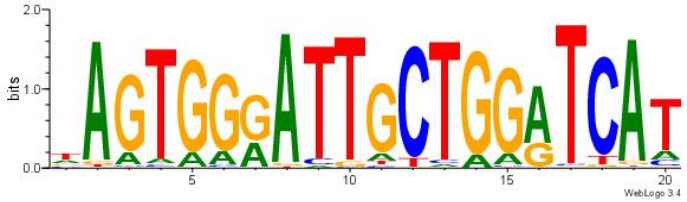

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.117601

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
---GTGGGTGCAGTGCA---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

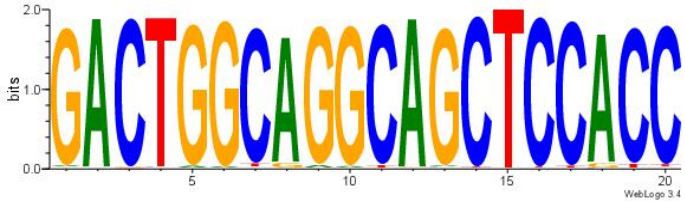

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

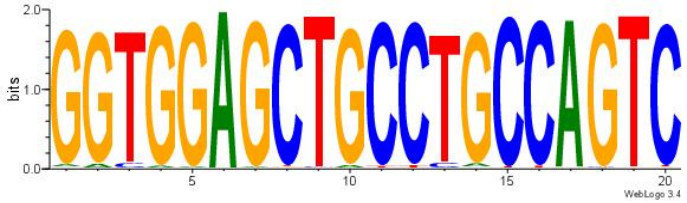

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.117674

Alignment:

```
AAGAGGTTTAATTGRCTCA
---GTGGGTGCAGTGCA--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

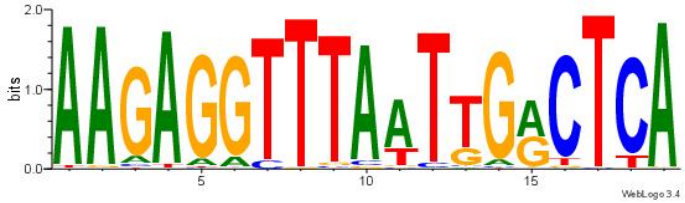

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

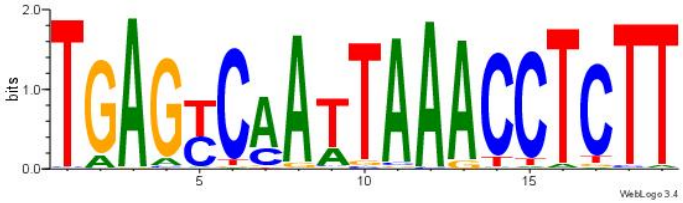

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.117912

Alignment:
MGTGTGATGTCTCCCCC
--TGCACTGCACCCAC-

Original motif Consensus sequence: GGGGGAGACATCACACR

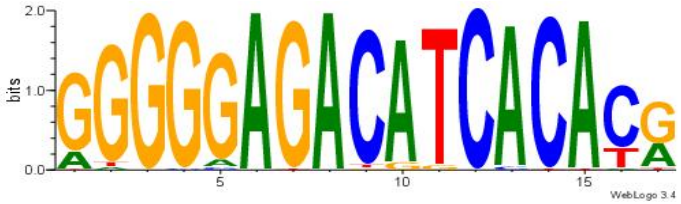

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

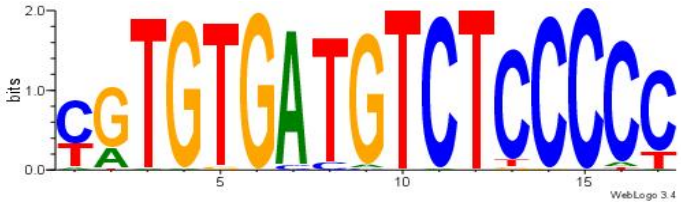

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.118278

Alignment:
GCAGCAMTATTCACAATAG
---TGCACTGCACCCAC--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

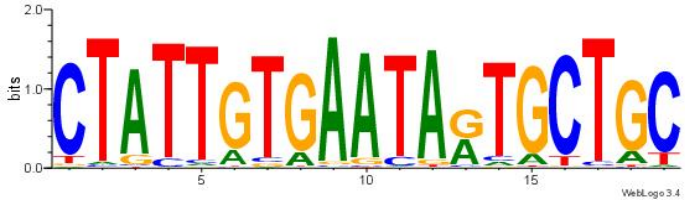

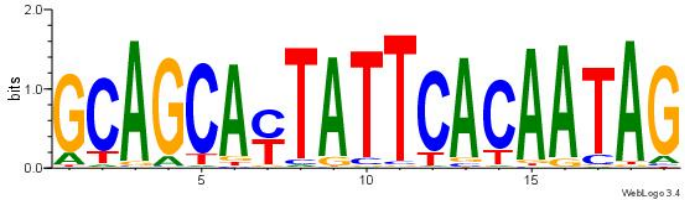

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.118688

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
GTGGGTGCAGTGCA------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

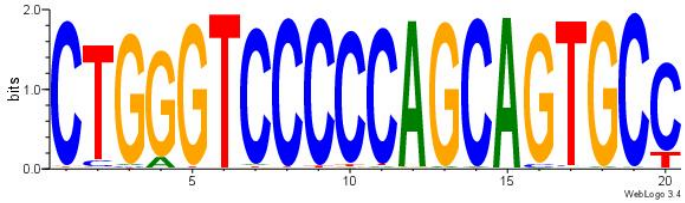

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

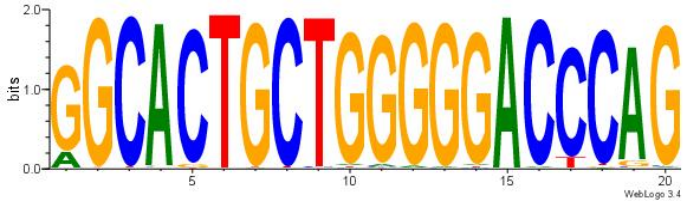

Dataset #:	1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.119212

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-TGCACTGCACCCAC-----
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

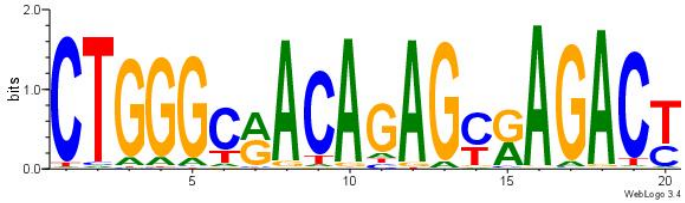

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

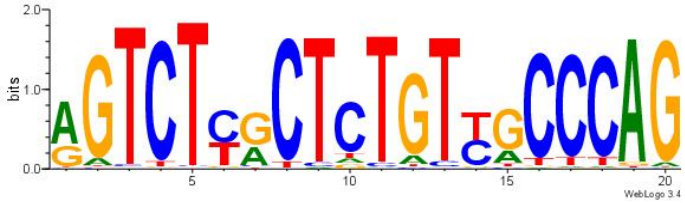

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.120218

Alignment:
CCCTCACTGCCCGGGG
--TGCACTGCACCCAC

Original motif Consensus sequence: CCCTCACTGCCCGGGG

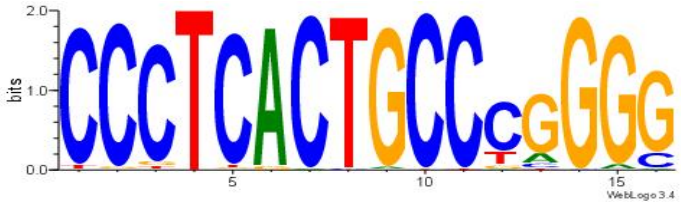

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

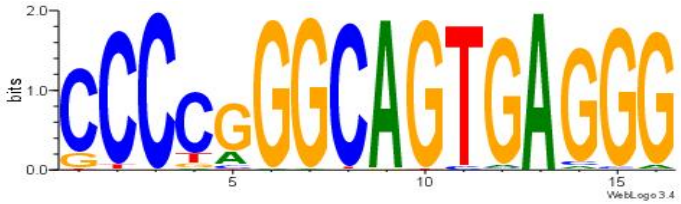

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.120308

Alignment:
AGCTCMKCCTCCTGTCAGAT
------TGCACTGCACCCAC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

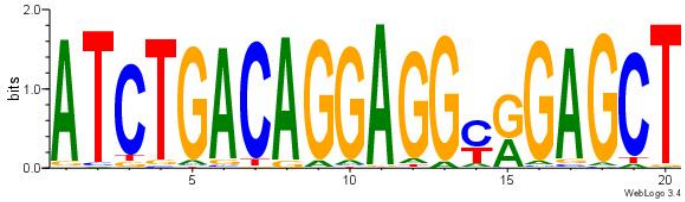

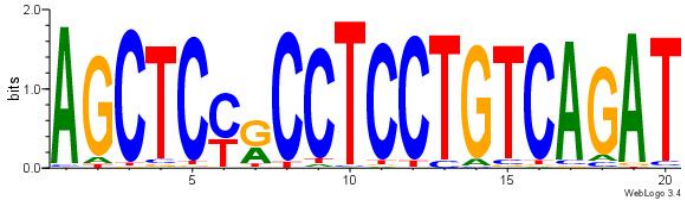

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.120847

Alignment:

```
VMATTTAKTGAGCACCTACT
-TGCACTGCACCCAC-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

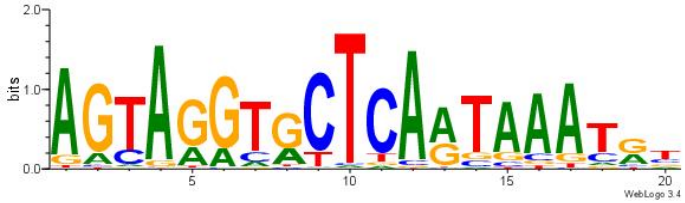

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

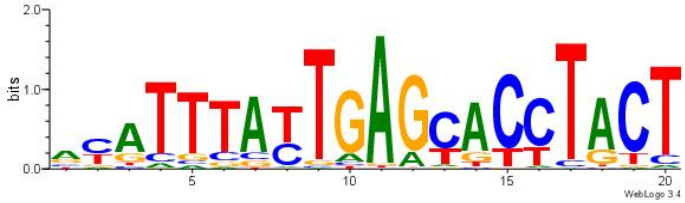

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.121062

Alignment:

```
GTAGACKGGAGCTGTTCCT
----GTGGGTGCAGTGCA-
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

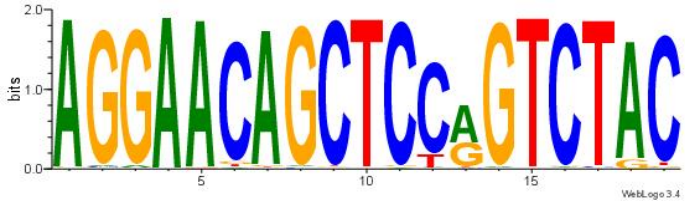

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

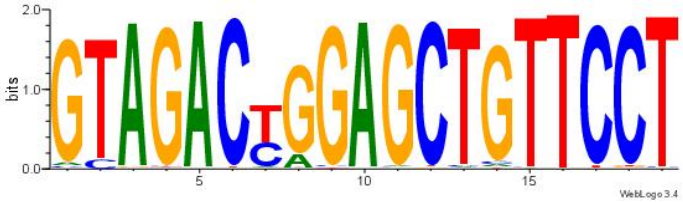

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.12118

Alignment:
ACTTTGGACTGTGGACTTTT
--TGCACTGCACCCAC----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

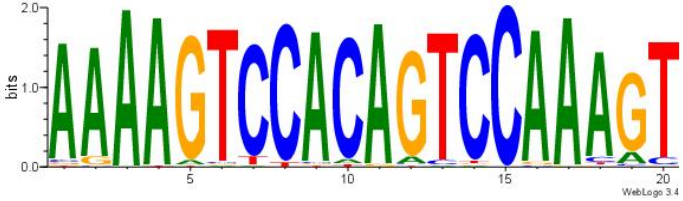

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

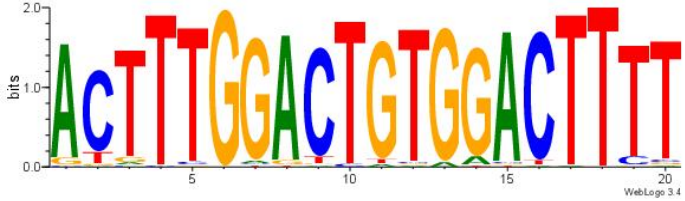

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.121183

Alignment:
CTTTCTGGGCTGGCCAAGG
--GTGGGTGCAGTGCA---

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

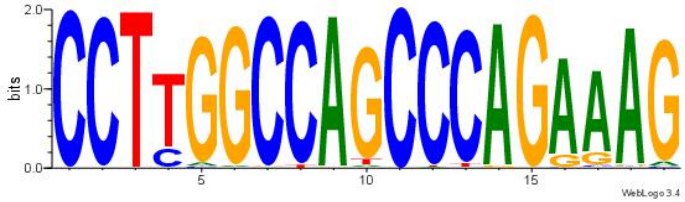

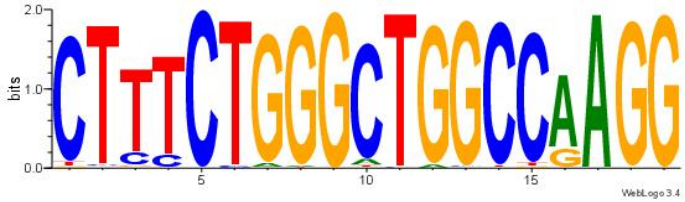

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.121295

Alignment:

```
CMTAGYACAGTGCCTGGCAC
GTGGGTGCAGTGCA------
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

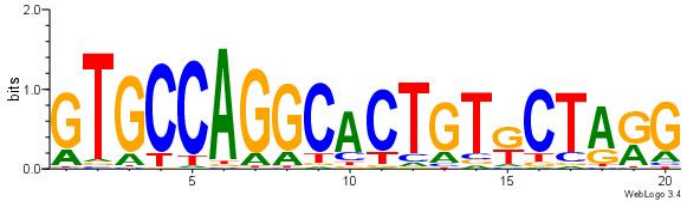

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

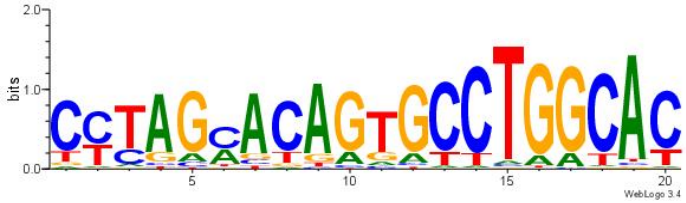

Dataset #:	1

Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.121457

Alignment:

```
TGTGAAGAGACCACCAA
TGCACTGCACCCAC---
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

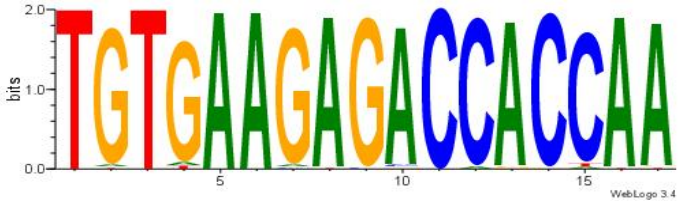

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

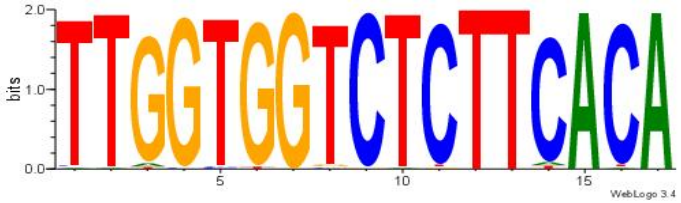

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.12168

Alignment:
CTCATTTAATCCTCACAAC
TGCACTGCACCCAC-----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

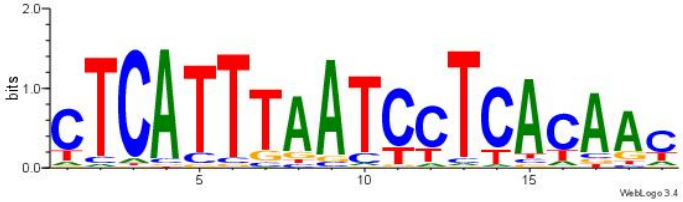

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

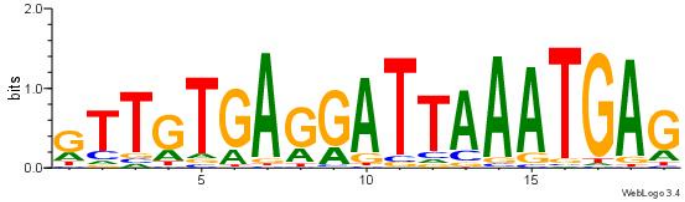

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.121782

Alignment:
GGGATTGTAAATACACCAAT
------TGCACTGCACCCAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

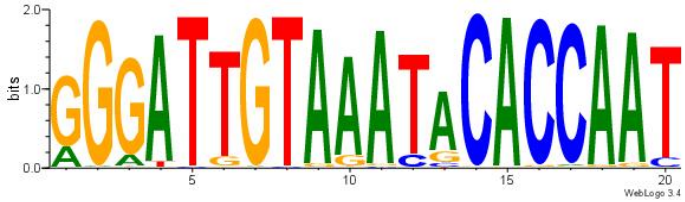

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.121849

Alignment:

```
GCCACCAMGCCMKGCTAAT
-----TGCACTGCACCCAC
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

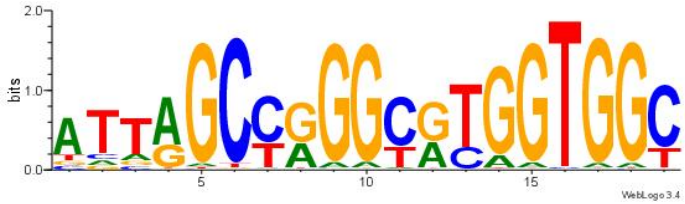

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

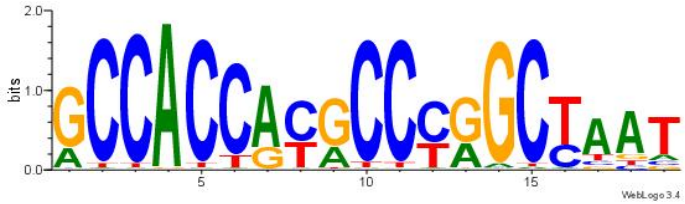

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.121865

Alignment:

```
AAAATGTGGTAYATAYAYAC
----TGCACTGCACCCAC--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

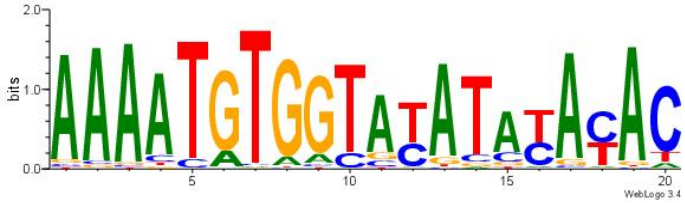

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

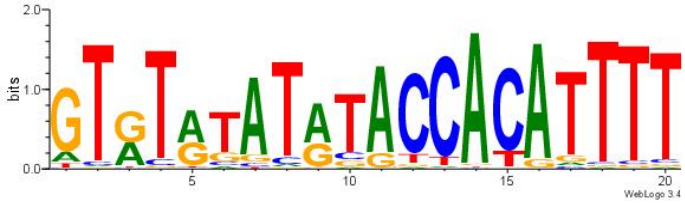

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.121919

Alignment:
ARCTCCTGKSCTCAAGKGAT
-----GTGGGTGCAGTGCA-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

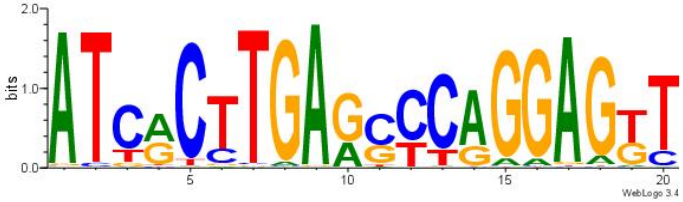

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

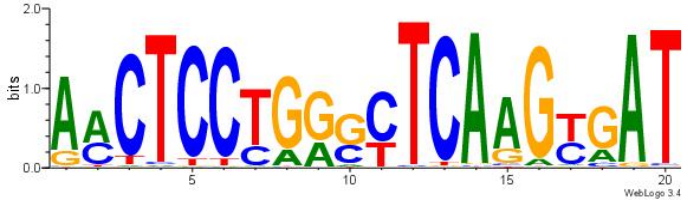

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.122446

Alignment:
GCAWSTGCAAAGGCCCT
GTGGGTGCAGTGCA---

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

Reverse complement motif Consensus sequence:
GCAWSTGCAAAGGCCCT

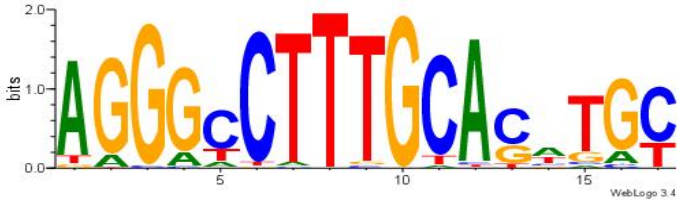

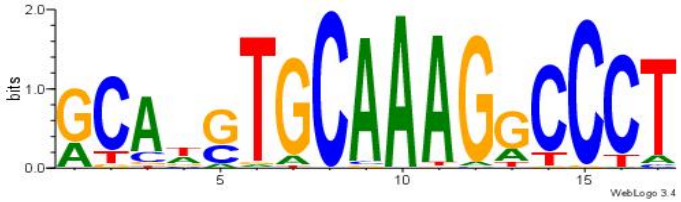

Dataset #: 1 Motif ID: 221 Motif name: Motif 221

Original motif Consensus sequence: GGGAGGAAGGGGACAC

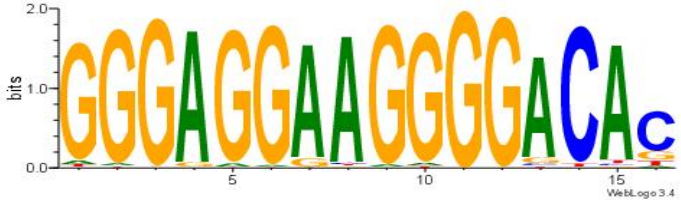

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

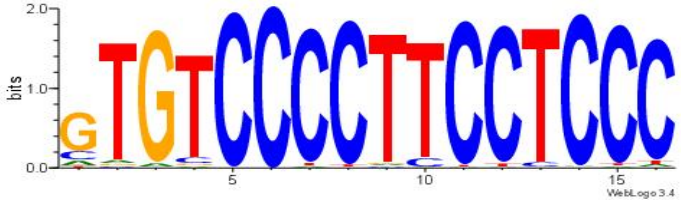

Best Matches for Motif ID 221 (Highest to Lowest)

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.0830942

Alignment:

GTGGCCCTCTTCTCACAGCT
GTGTCCCCTTCCTCCC----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

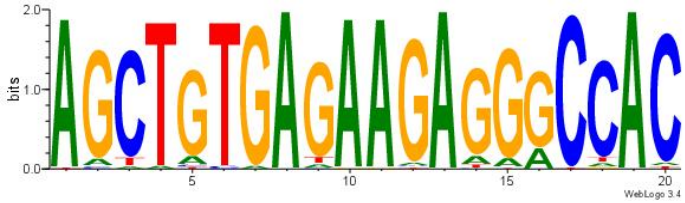

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

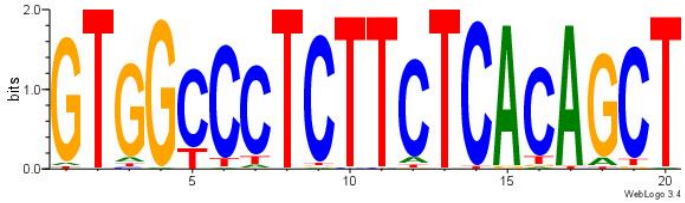

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0878739

Alignment:
ATGTGGAGGTGGAAGACAGT
-GGGAGGAAGGGGACAC---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

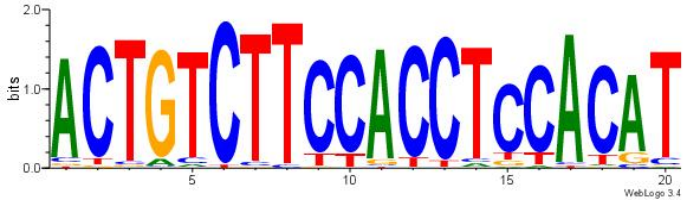

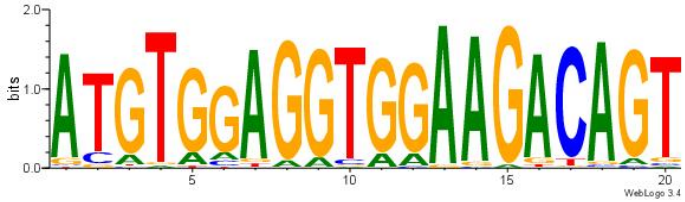

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0907477

Alignment:

```
GGTTTTCCATTCCTGAG
-GTGTCCCCTTCCTCCC
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

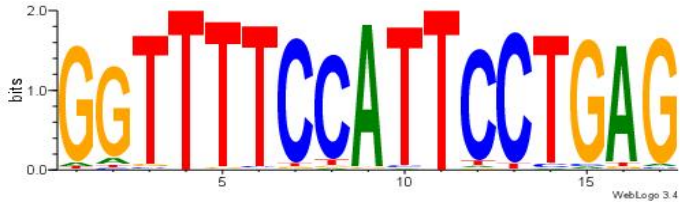

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.090827

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
GGGAGGAAGGGGACAC----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

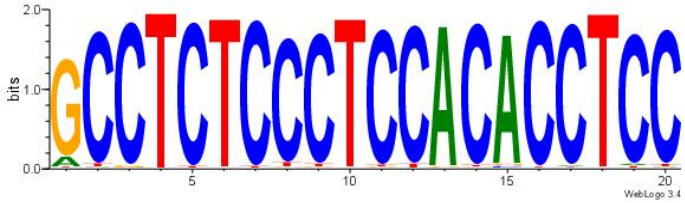

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

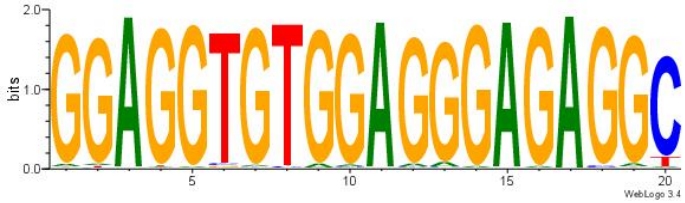

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16

Similarity score: 0.0917203

Alignment:
ACCTGGAAAATCGGGTCACT
---GGGAGGAAGGGGACAC-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

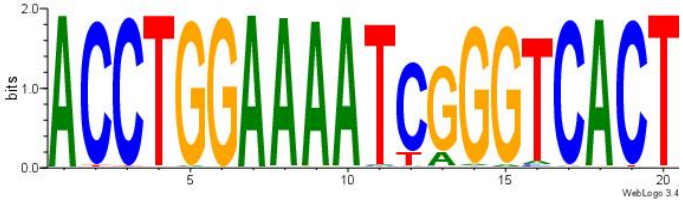

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

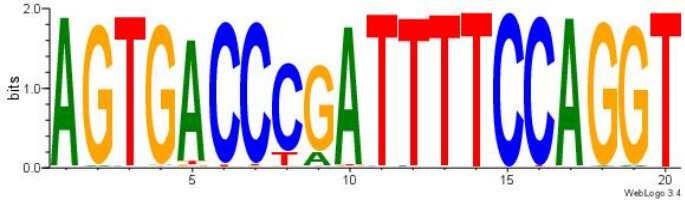

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0955795

Alignment:
KGGGCDGAGGGGCTCCT
GGGAGGAAGGGGACAC-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

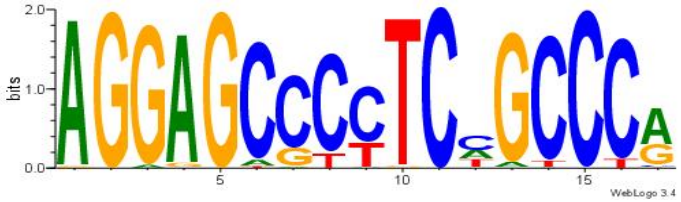

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.100294

Alignment:

```
TTTTCACATGCCTTTCT
GTGTCCCCTTCCTCCC-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

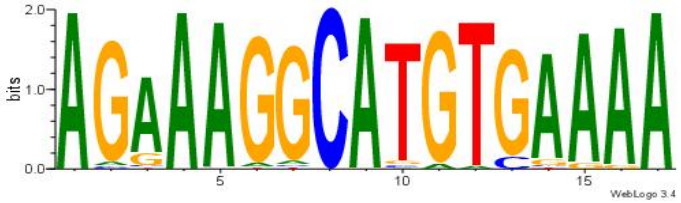

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

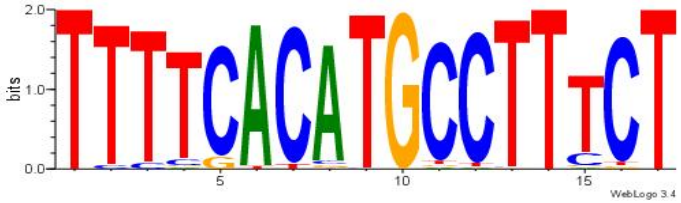

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.101298

Alignment:

```
ACTCAGCCCRCCTGCACCC
GTGTCCCCTTCCTCCC---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

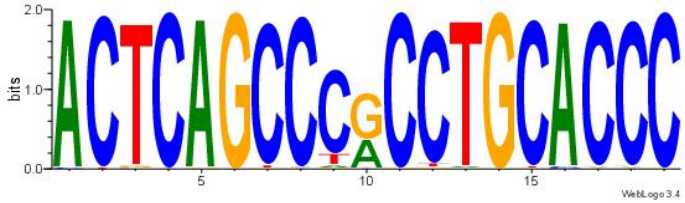

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

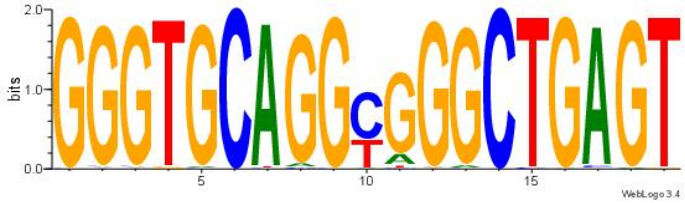

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.10137

Alignment:
GAGGAGGRGGAGGDGGV
-GGGAGGAAGGGGACAC

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

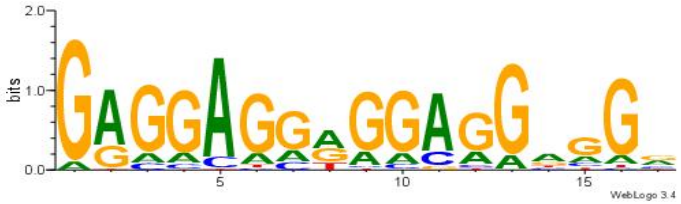

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

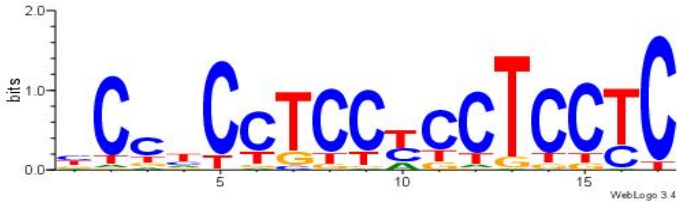

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.102227

Alignment:
AGTGTTTCCAAMCTGCT
-GTGTCCCCTTCCTCCC

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

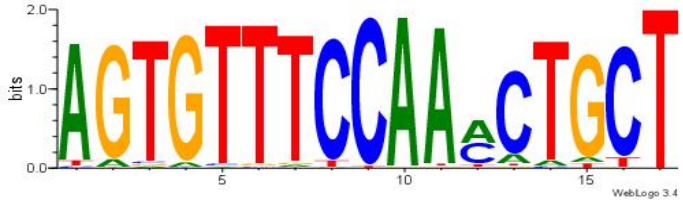

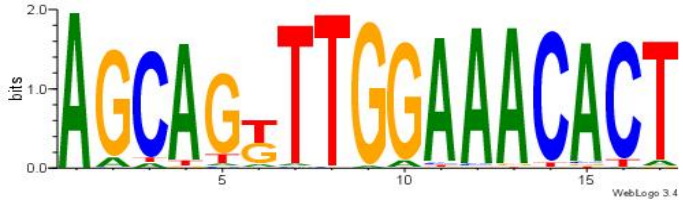

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.10262

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GGGAGGAAGGGGACAC----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

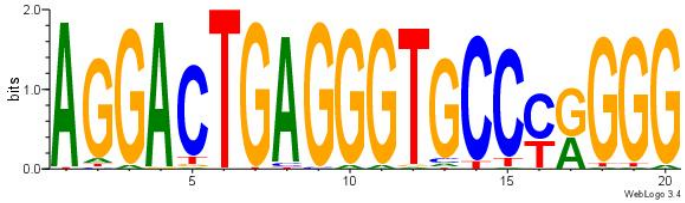

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

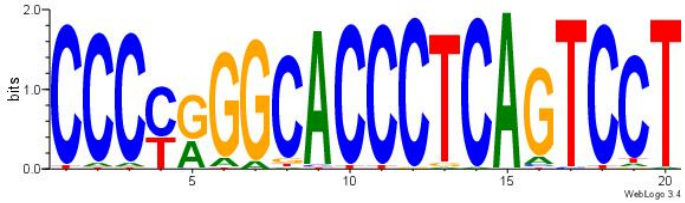

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.102989

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---GGGAGGAAGGGGACAC-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

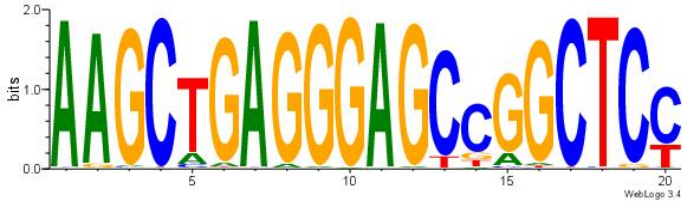

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

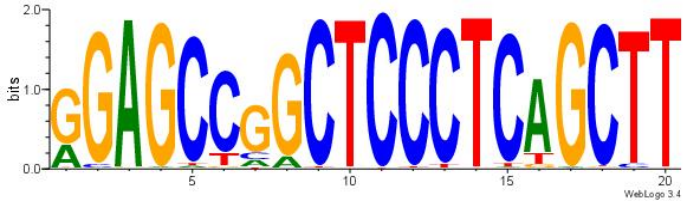

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16

Similarity score: 0.103268

Alignment:
AGGAGGAAGTCAATTTC
GGGAGGAAGGGGACAC-

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

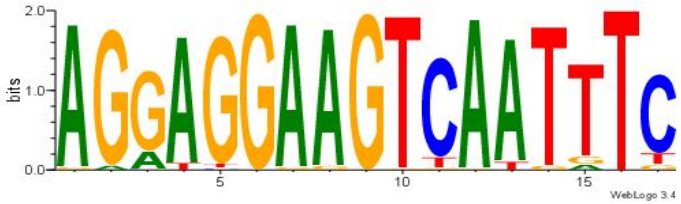

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

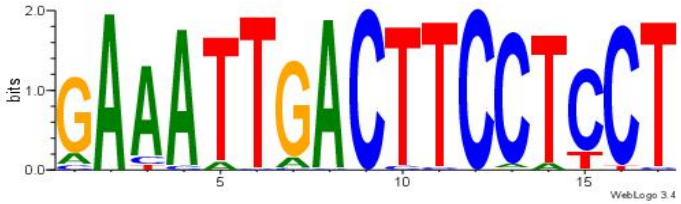

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.104093

Alignment:
ATCTGACAGGAGGYRGAGCT
----GGGAGGAAGGGGACAC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

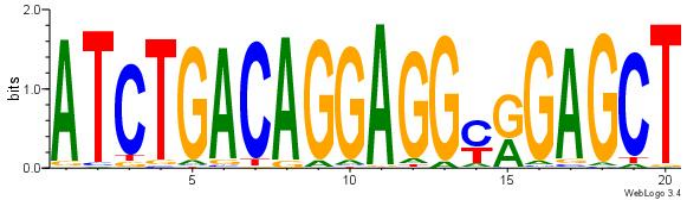

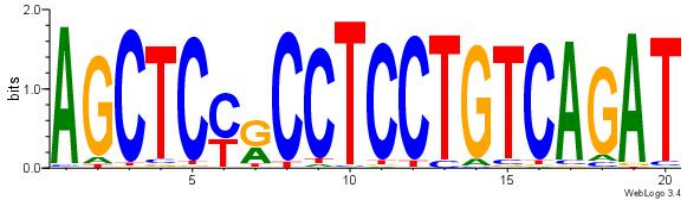

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.104149

Alignment:

```
AGGAGCGCCTCTKCCCGGC
---GTGTCCCCTTCCTCCC
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

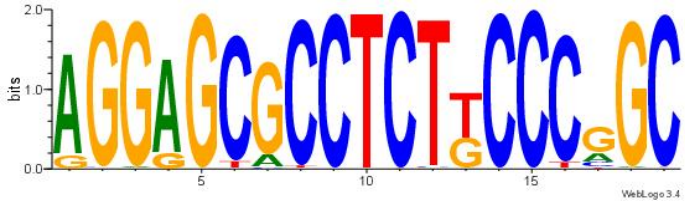

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

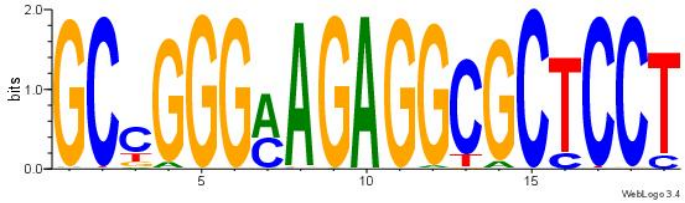

Dataset #: 1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.104509

Alignment:

```
GTCCCATCGACCACCCAAG
---GTGTCCCCTTCCTCCC
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

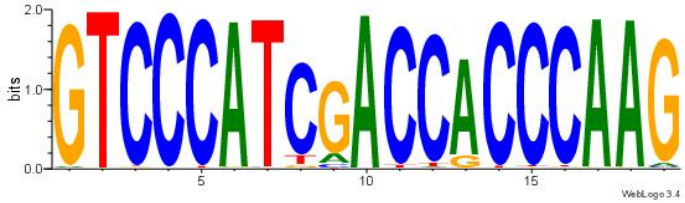

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

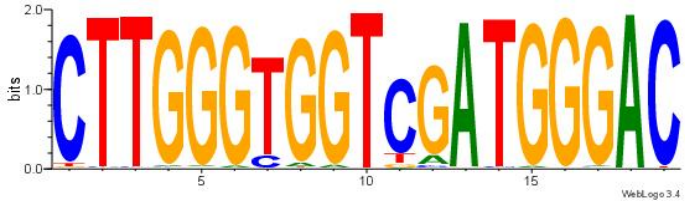

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16

Similarity score: 0.105156

Alignment:
CTCAGTGTTAATCTCCTGTC
----GTGTCCCCTTCCTCCC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

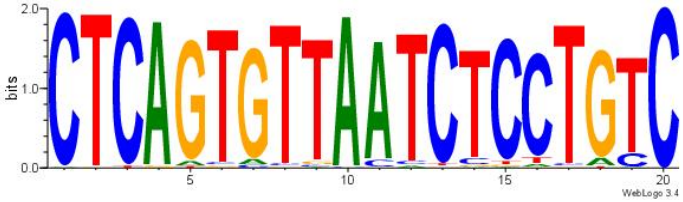

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

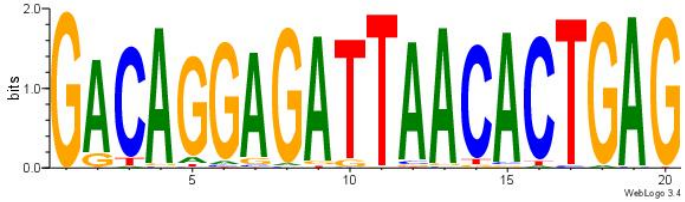

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.105199

Alignment:
CTCCTGCCTCAGCCTCCCRA
--GTGTCCCCTTCCTCCC--

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

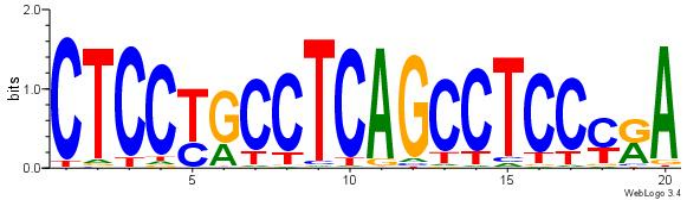

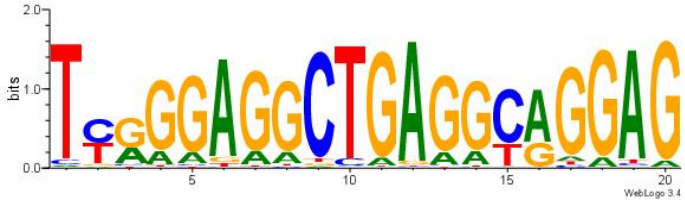

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.10598

Alignment:

```
GGGGGAGACATCACACR
GGGAGGAAGGGGACAC-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

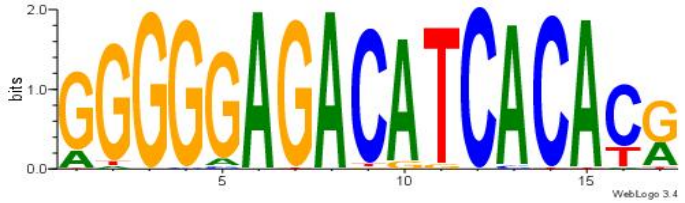

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

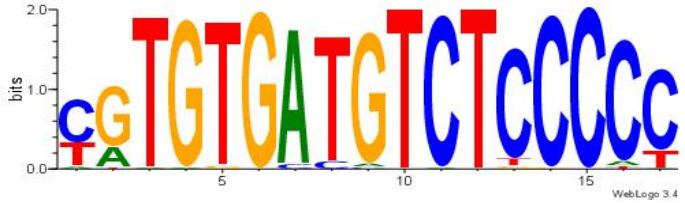

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.109787

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-GTGTCCCCTTCCTCCC---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

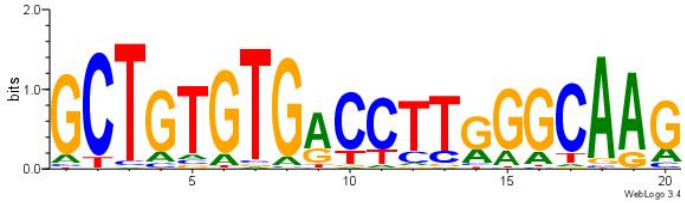

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

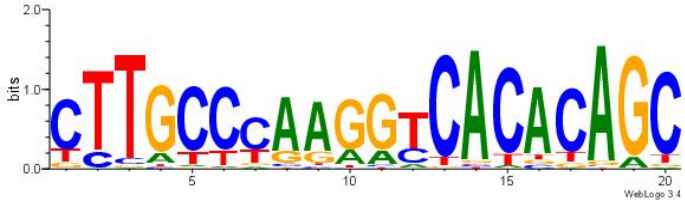

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.111235

Alignment:
GGCCMGCAGGGCKGGC
GGGAGGAAGGGGACAC

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

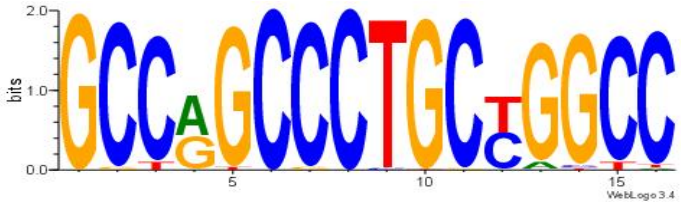

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

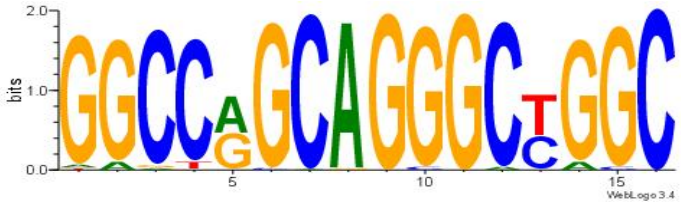

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.111511

Alignment:
CAGACTGCCTCCTCAA
GTGTCCCCTTCCTCCC

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

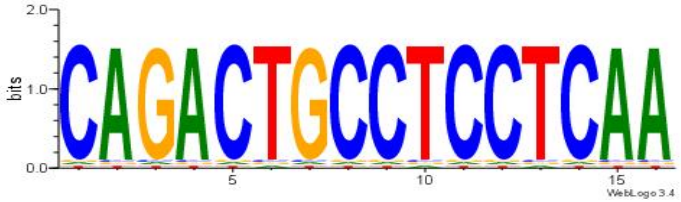

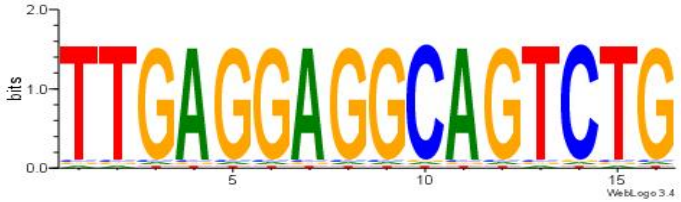

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.111799

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GTGTCCCCTTCCTCCC----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

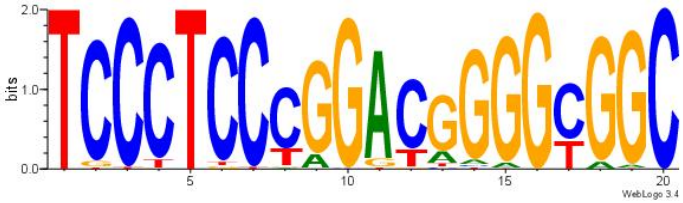

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

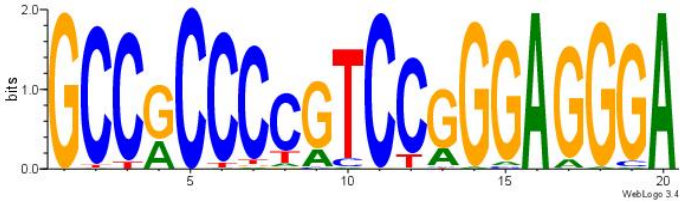

Dataset #: 1

Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.112016

Alignment:

```
GCTAATATATCCCTCCC
-GTGTCCCCTTCCTCCC
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

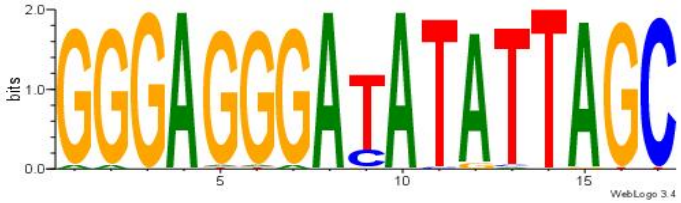

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

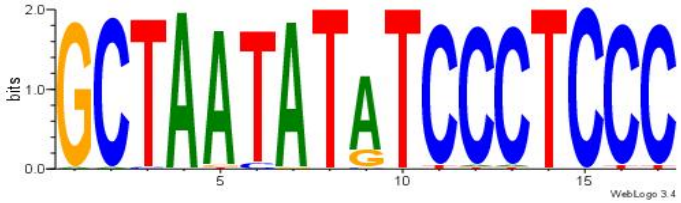

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16

Similarity score: 0.113287

Alignment:
CRTGAGCCACYGYRCCYGGC
---GTGTCCCCTTCCTCCC-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

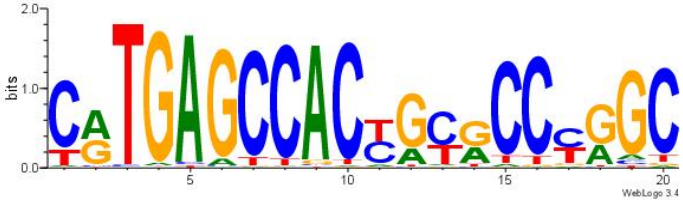

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

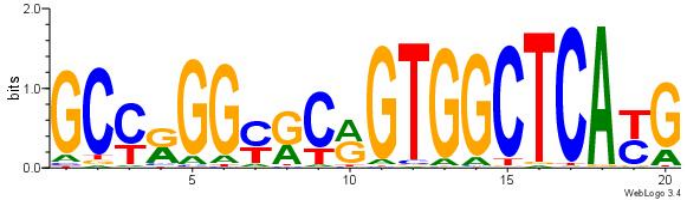

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.11365

Alignment:
KCCGGGCCTTAGCTGCCTTC
-GTGTCCCCTTCCTCCC---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

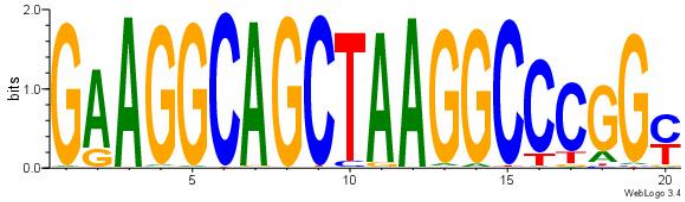

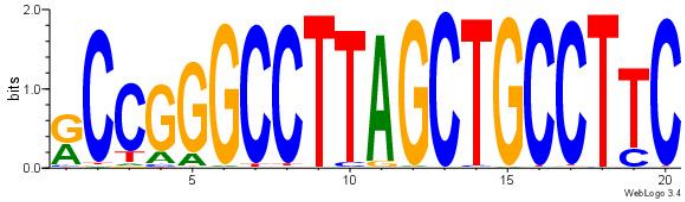

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.114863

Alignment:

```
AGGAGRCMCTCTGCCTGGC
---GTGTCCCCTTCCTCCC
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

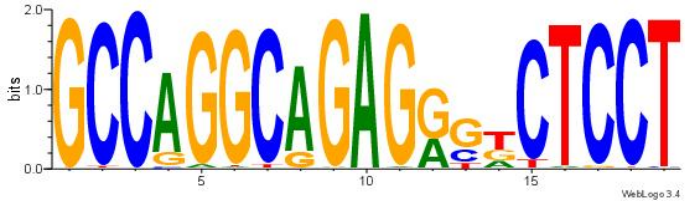

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

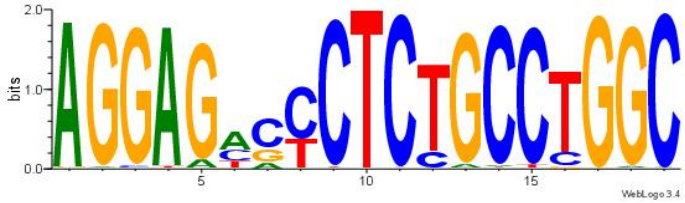

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.115403

Alignment:

```
TCKMGCCACTGCACTCCAGC
-GTGTCCCCTTCCTCCC---
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

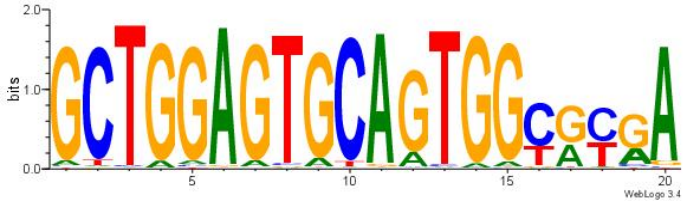

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

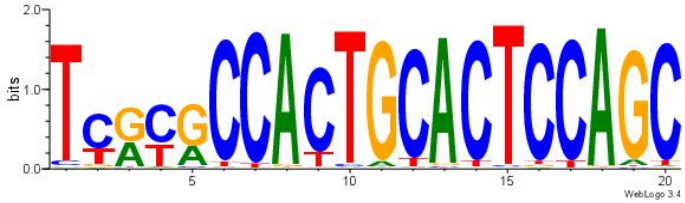

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16

Similarity score: 0.115535

Alignment:
GGGAGGTGTCTCCCAGTCAG
GGGAGGAAGGGGACAC----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

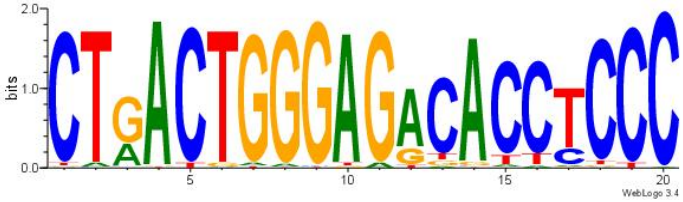

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

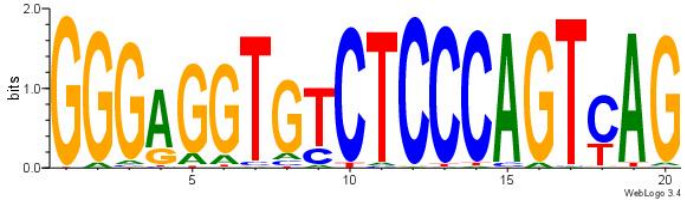

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.116207

Alignment:
CTGGGCRACAGAGYRAGACY
---GGGAGGAAGGGGACAC-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

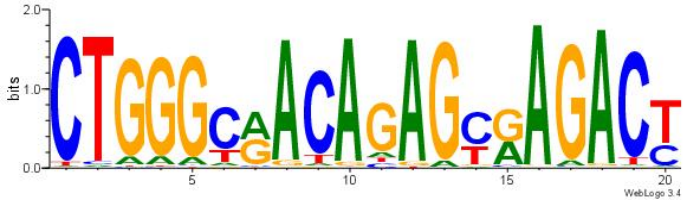

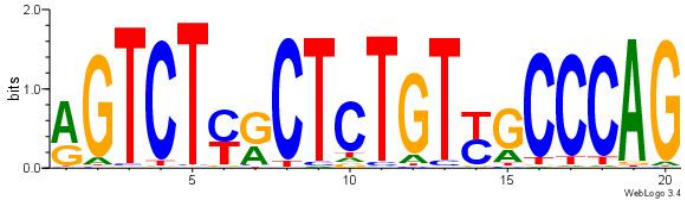

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.117324

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
GTGTCCCCTTCCTCCC----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

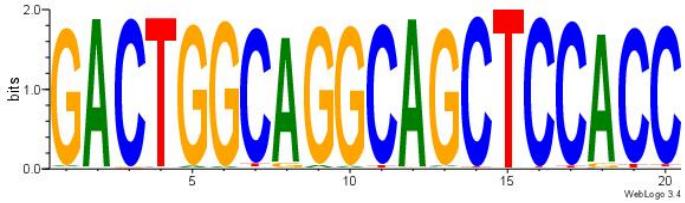

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

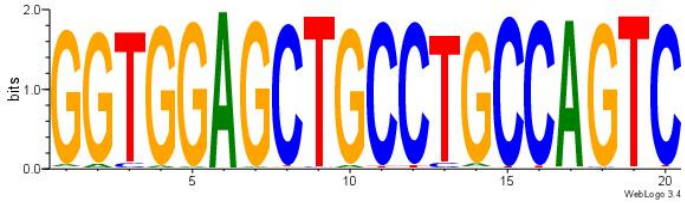

Dataset #: 1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.117774

Alignment:

```
ATCCATCCATCCATCCA
GTGTCCCCTTCCTCCC-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

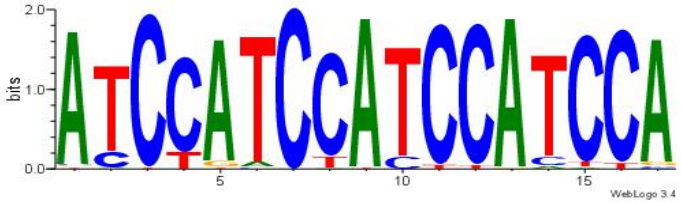

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16

Similarity score: 0.11857

Alignment:
HAGTGGKATTGCTGGATCAT
GGGAGGAAGGGGACAC----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

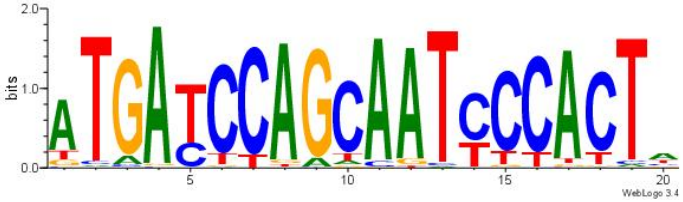

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

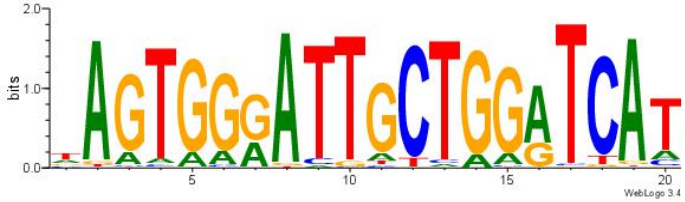

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.119008

Alignment:
GGGGGCTGACCCCCCCACC
---GTGTCCCCTTCCTCCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

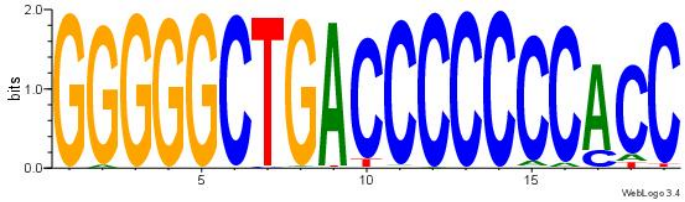

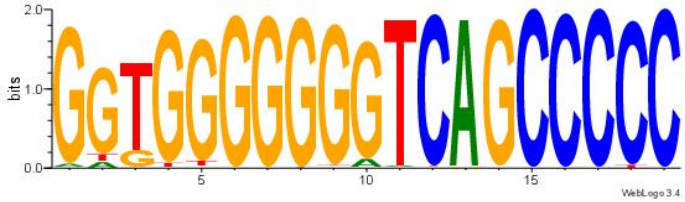

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.119441

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
--GTGTCCCCTTCCTCCC--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

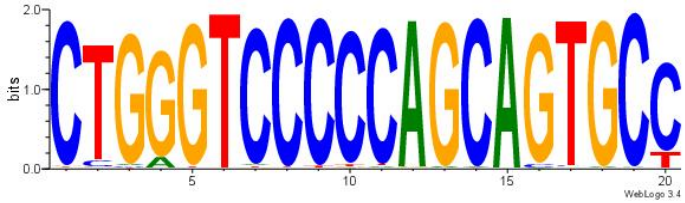

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

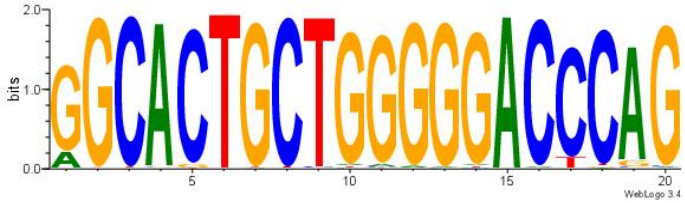

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.120665

Alignment:

```
TCTGGAGTGGACCTCCAGCA
----GTGTCCCCTTCCTCCC
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

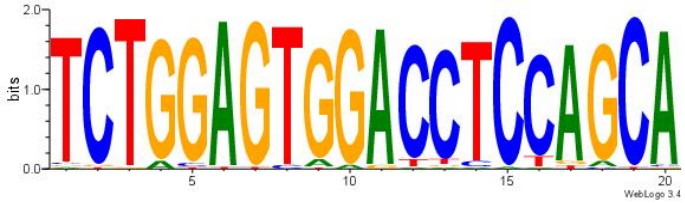

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

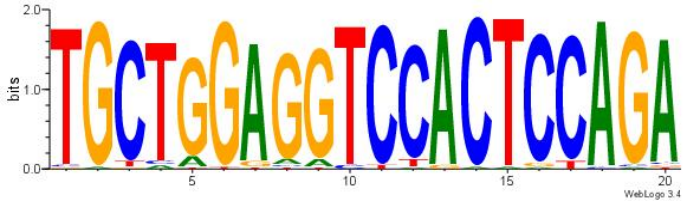

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.121

Alignment:
GAAAGGGAACTCCCTGACCC
----GGGAGGAAGGGGACAC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

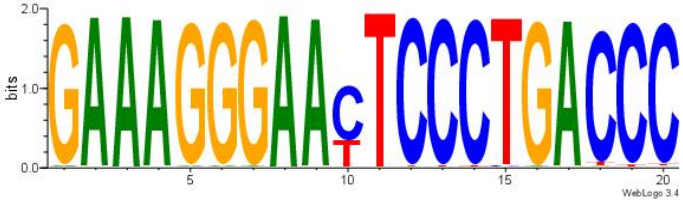

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

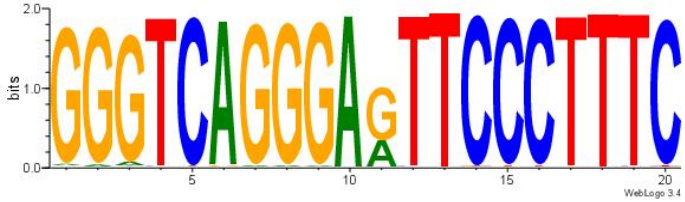

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.122173

Alignment:
AAGTCTCCCAATTACAACT
--GTGTCCCCTTCCTCCC-

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

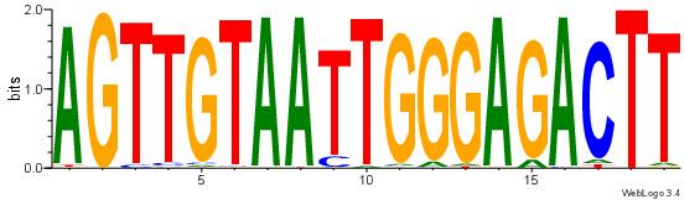

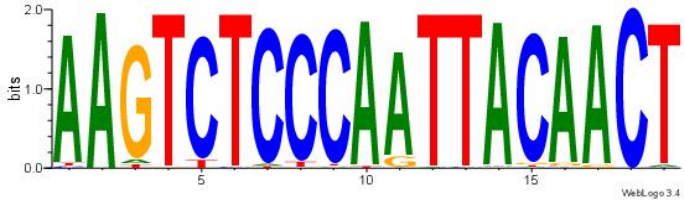

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.123251

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
----GGGAGGAAGGGGACAC
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

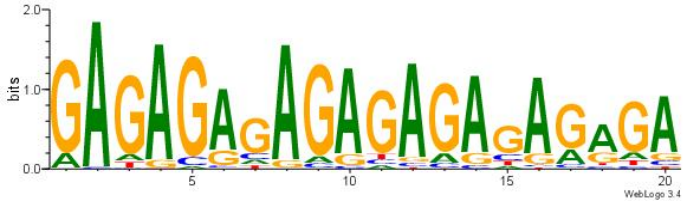

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

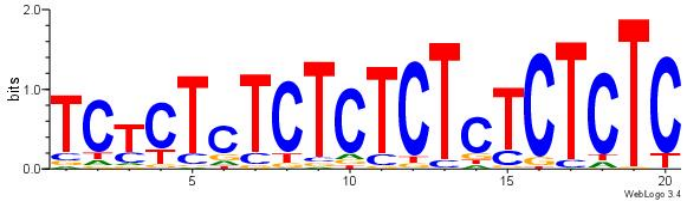

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.123624

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-GTGTCCCCTTCCTCCC---
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

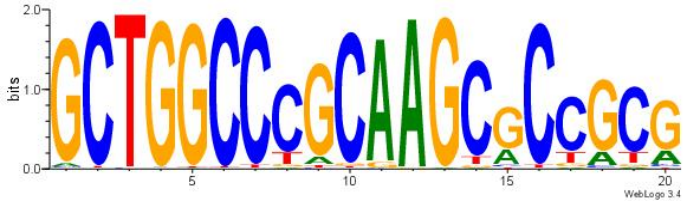

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

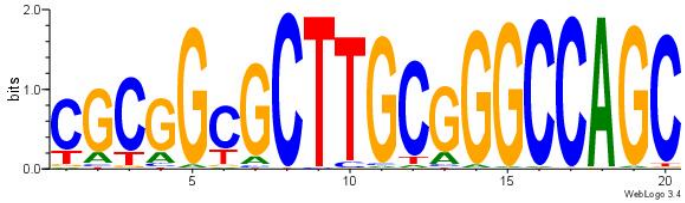

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.12406

Alignment:
GGGATTGTAAATACACCAAT
----GGGAGGAAGGGGACAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

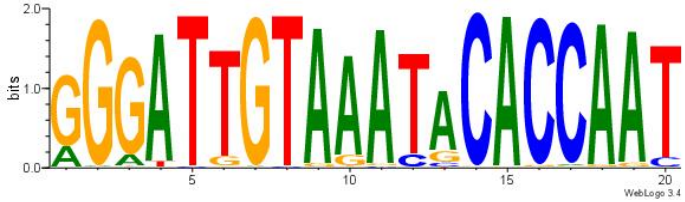

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.12441

Alignment:
GCCAGTCACAAAARGACAMA
---GGGAGGAAGGGGACAC-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

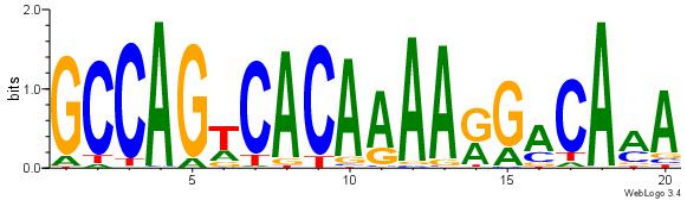

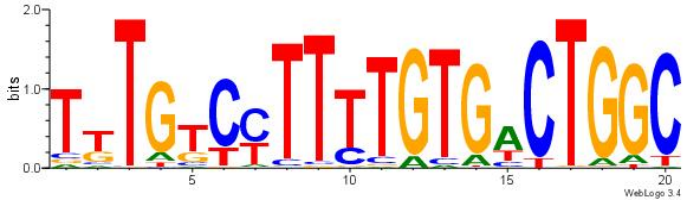

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.124468

Alignment:

```
AAGGAACAAACTCCRGACAC
--GGGAGGAAGGGGACAC--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

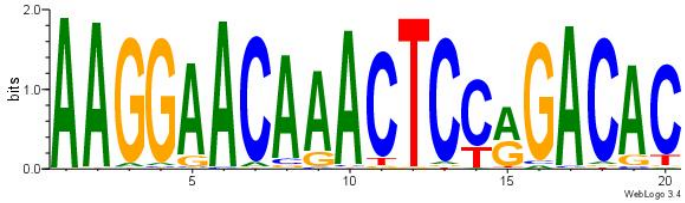

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

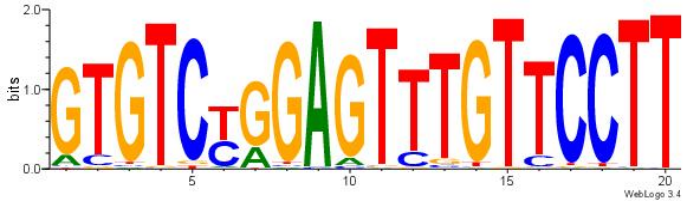

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.124934

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-GGGAGGAAGGGGACAC---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

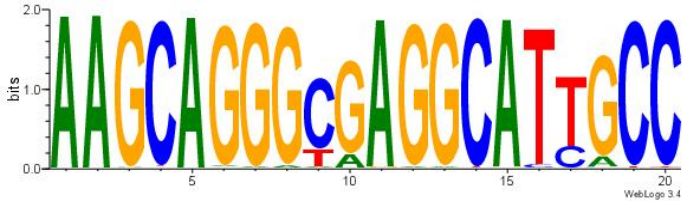

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

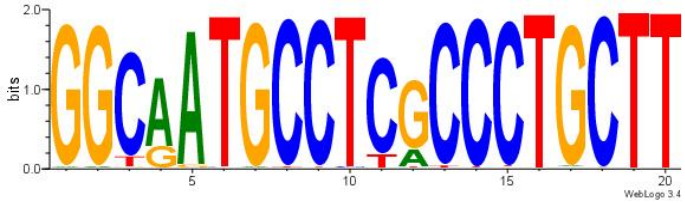

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.125368

Alignment:
ACAAGGCAAGTCCCTTCY
--GTGTCCCCTTCCTCCC

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

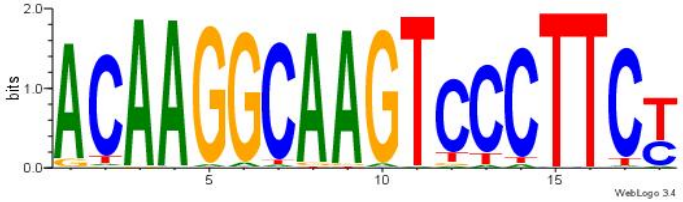

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

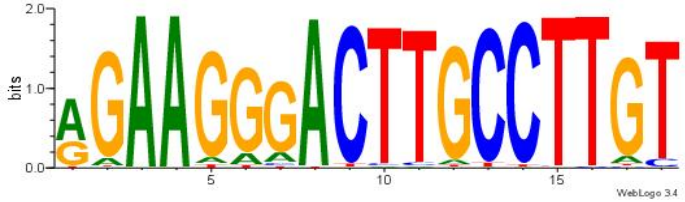

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.126295

Alignment:
CAGGTGGTKTTTGGTTACAT
----GGGAGGAAGGGGACAC

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

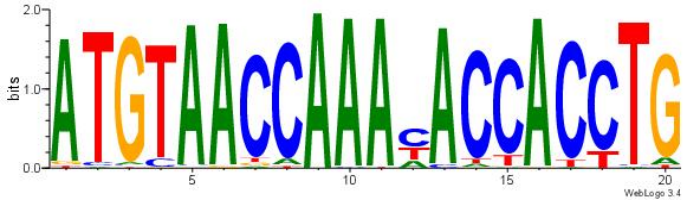

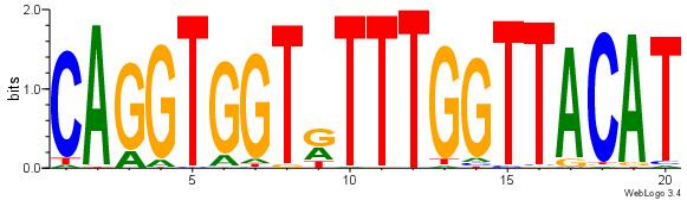

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.126304

Alignment:

```
CMTAGYACAGTGCCTGGCAC
--GTGTCCCCTTCCTCCC--
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

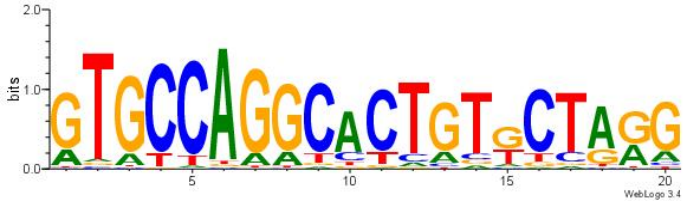

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

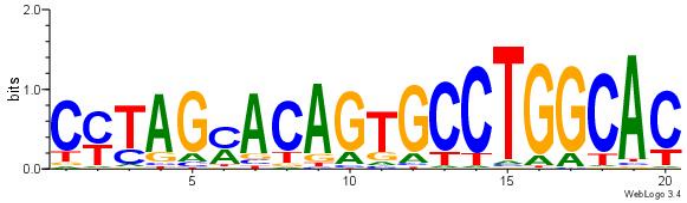

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.12692

Alignment:

```
CAGCTACTCKTATACCCTTG
-GTGTCCCCTTCCTCCC---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

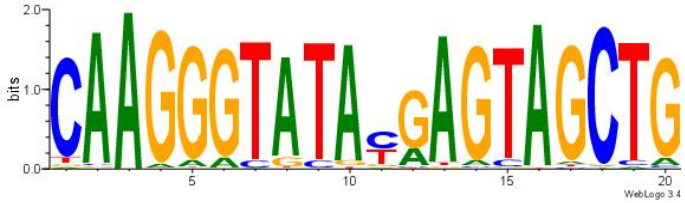

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

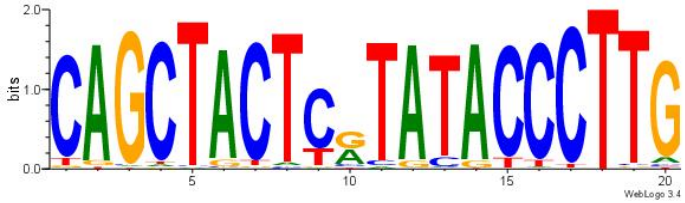

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.126955

Alignment:
GCACATGTAYCCYAGAACTT
----GTGTCCCCTTCCTCCC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

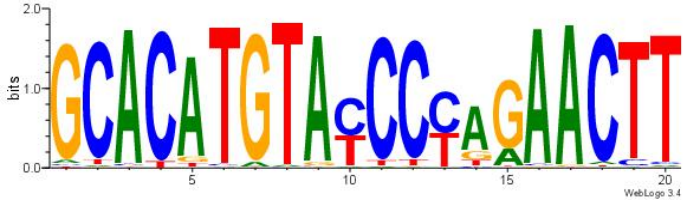

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

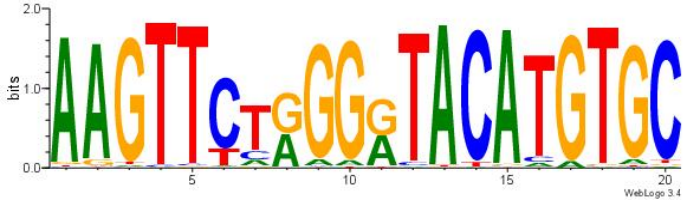

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.127798

Alignment:
CACCAGACTCAGGAGCCCAG
-GGGAGGAAGGGGACAC---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

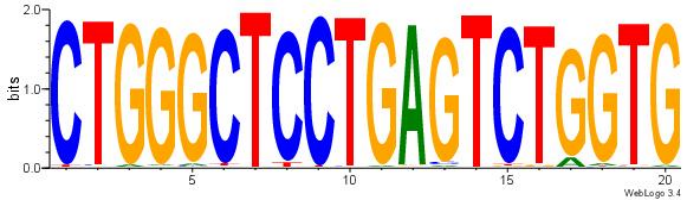

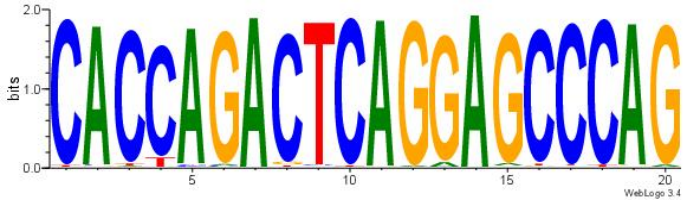

Dataset #: 1 Motif ID: 222 Motif name: Motif 222

Original motif Consensus sequence: CGAGATCACGCCA

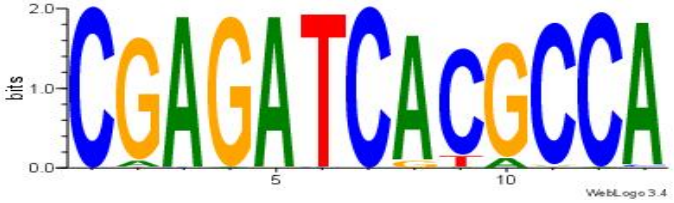

Reverse complement motif Consensus sequence: TGGCGTGATCTCG

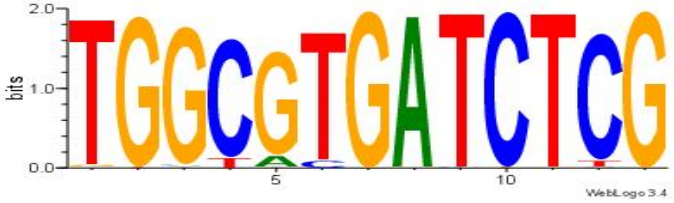

Best Matches for Motif ID 222 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0800547

Alignment:

```
GGATCCACTGGGTGAAGCCA
-------CGAGATCACGCCA
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

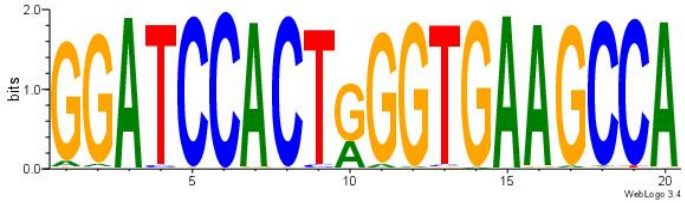

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

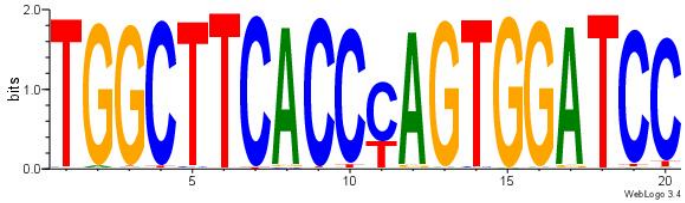

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0816199

Alignment:

```
AATGAKATCATGTCYTTTGC
-----CGAGATCACGCCA--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

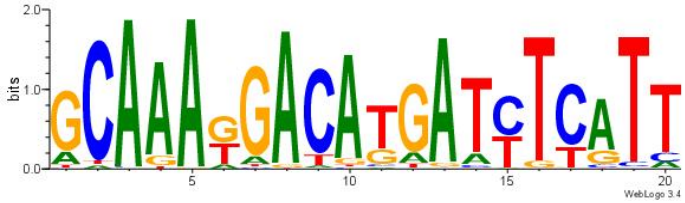

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

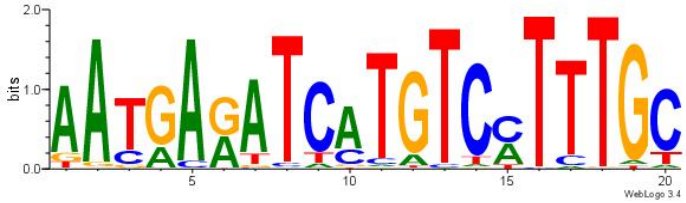

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0858328

Alignment:

```
GACCTGCAGCCCGCCATG
--CGAGATCACGCCA---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

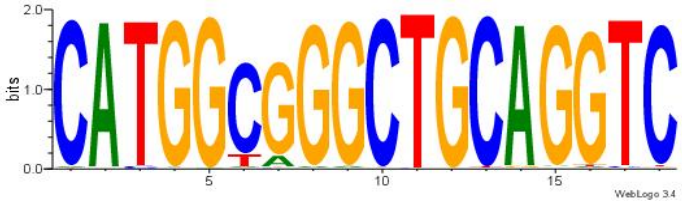

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

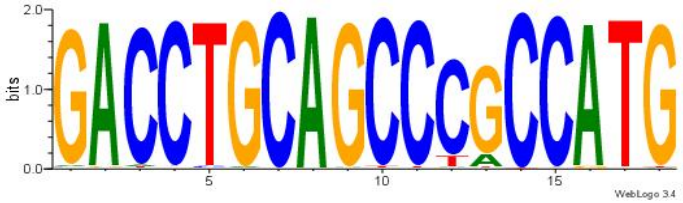

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.0874221

Alignment:
TCKMGCCACTGCACTCCAGC
--CGAGATCACGCCA-----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

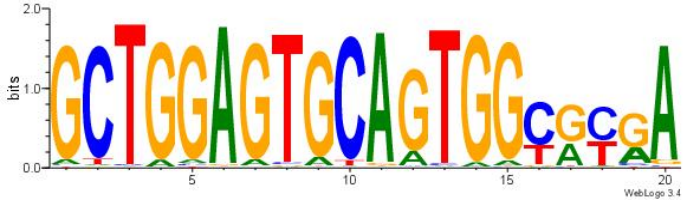

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

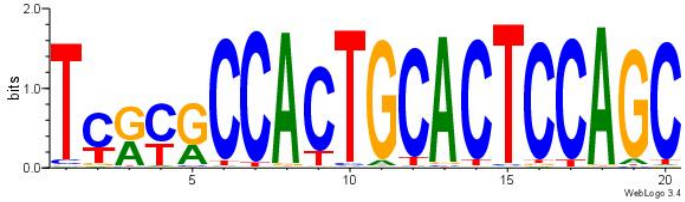

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0876684

Alignment:
AAGACGGGTGATTTCTG
---TGGCGTGATCTCG-

Original motif Consensus sequence: CAGAAATCACCCGTCTT

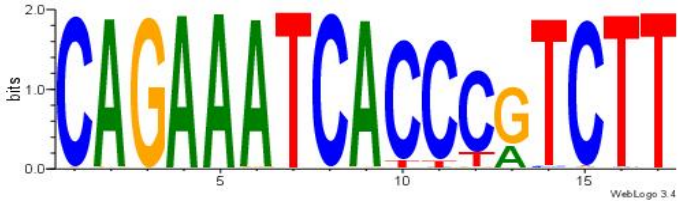

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

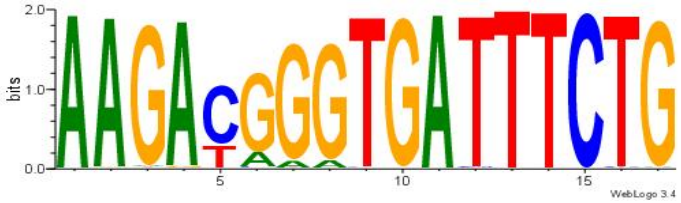

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0907379

Alignment:

```
AGTGAGAACATRYRRTRTTT
--CGAGATCACGCCA-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

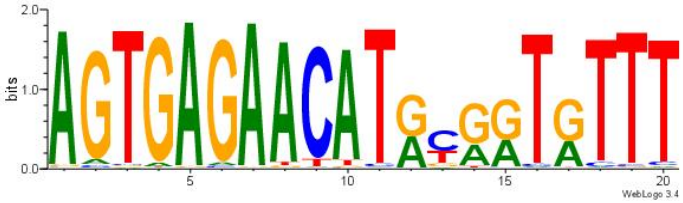

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

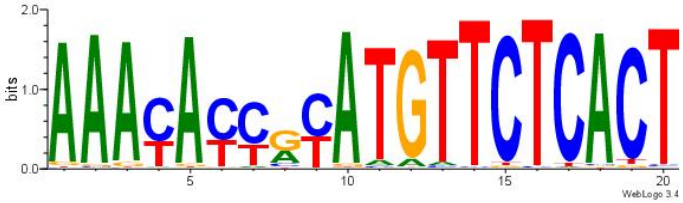

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0919452

Alignment:

```
AGCCCCGGTTCCCGCYCGC
----CGAGATCACGCCA--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

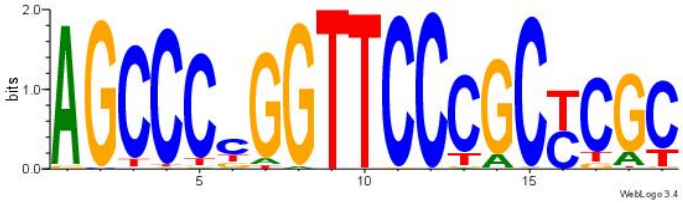

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

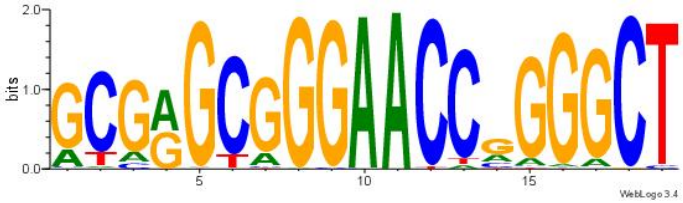

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0921867

Alignment:
GTGTCKGGAGTTTGTTCCTT
-TGGCGTGATCTCG------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

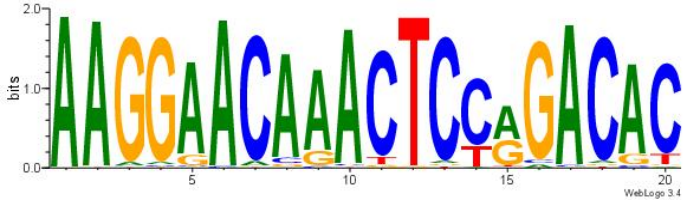

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

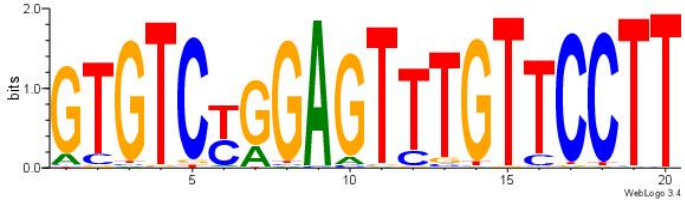

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.0928109

Alignment:
ARCTCCTGKSCTCAAGKGAT
-CGAGATCACGCCA------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

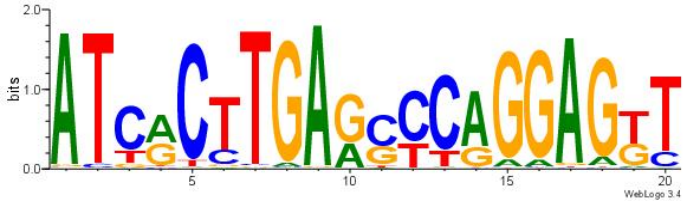

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

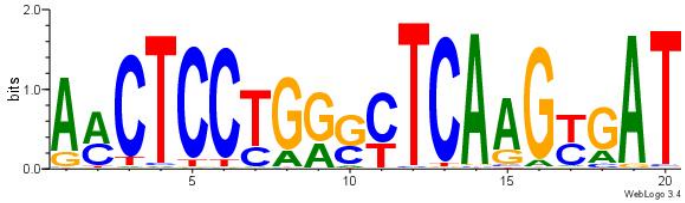

Dataset #:	1
Motif ID:	251
Motif name:	Motif 251
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0929759

Alignment:

```
CAGGCTGGTCTCG
TGGCGTGATCTCG
```

Original motif Consensus sequence: CAGGCTGGTCTCG

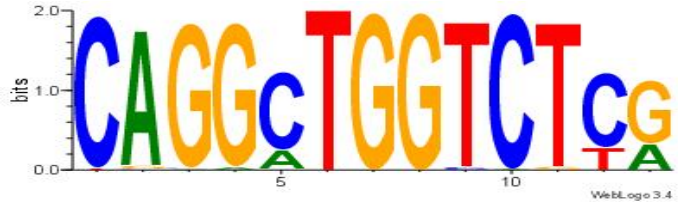

Reverse complement motif Consensus sequence: CGAGACCAGCCTG

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0935872

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----CGAGATCACGCCA--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

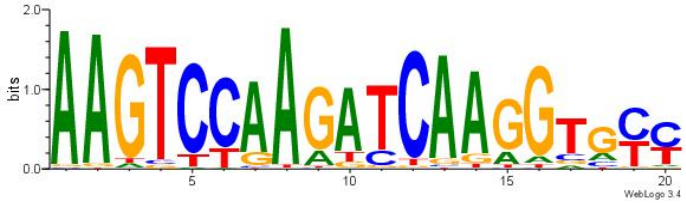

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

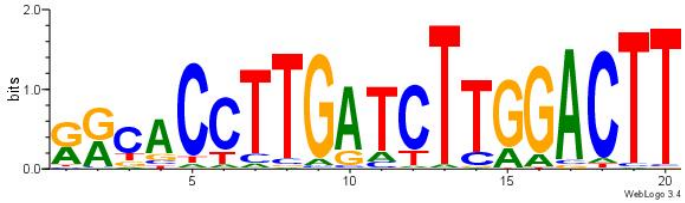

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0939746

Alignment:
TGHCCTGCKCCCACTGTCT
TGGCGTGATCTCG------

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

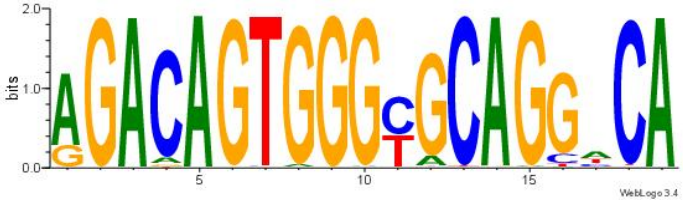

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

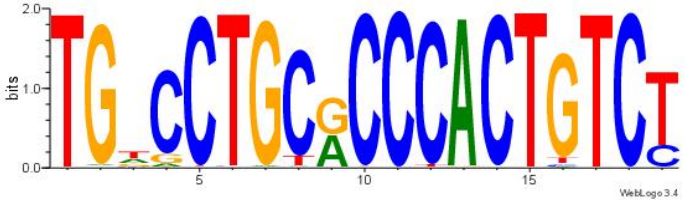

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0962064

Alignment:
CACCAGGAGATTATATCCCR
-----CGAGATCACGCCA--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

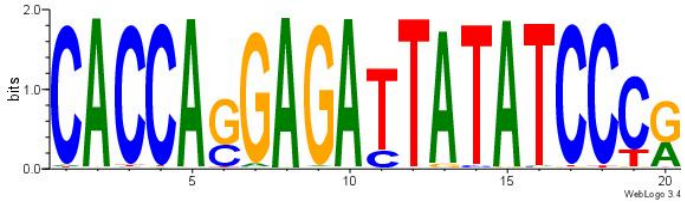

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

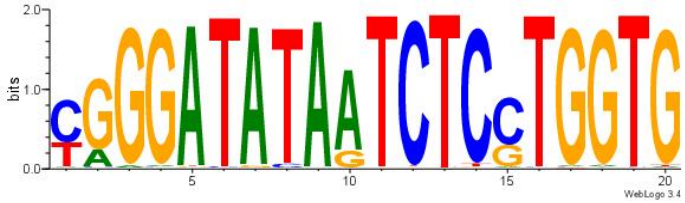

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0963416

Alignment:

```
CMCAGTTCACAATAGGGTT
-CGAGATCACGCCA-----
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

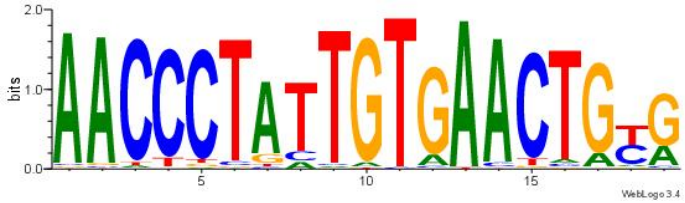

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

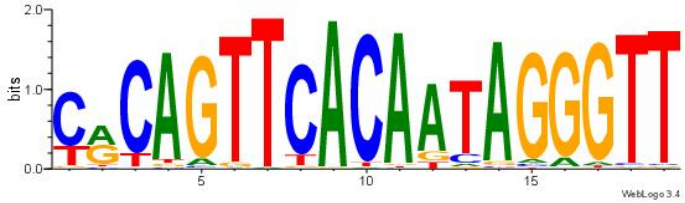

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0977574

Alignment:

```
TAMGACCTCAGGTCCTCAG
--CGAGATCACGCCA----
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

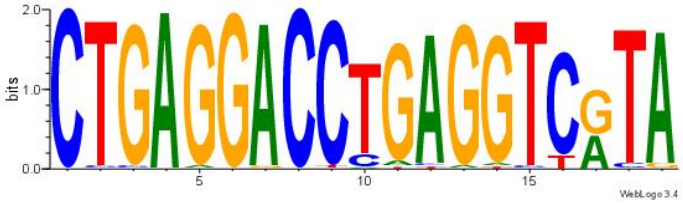

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

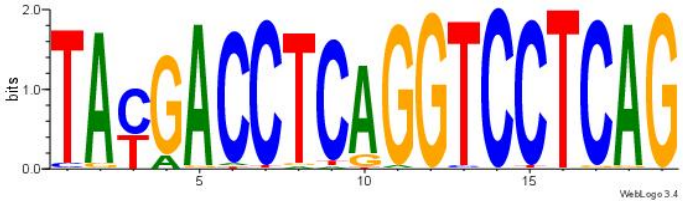

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0985319

Alignment:
CGGCGCTGMGCTCGATTTCT
-TGGCGTGATCTCG------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

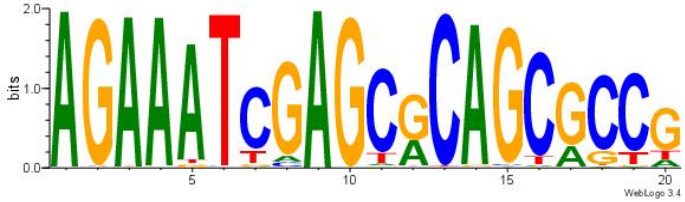

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

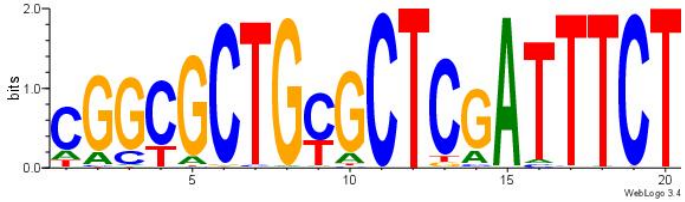

Dataset #: 1
Motif ID: 315
Motif name: Motif 315
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0990754

Alignment:
CCAAACCATATCA
CGAGATCACGCCA

Original motif Consensus sequence: CCAAACCATATCA

Reverse complement motif Consensus sequence: TGATATGGTTTGG

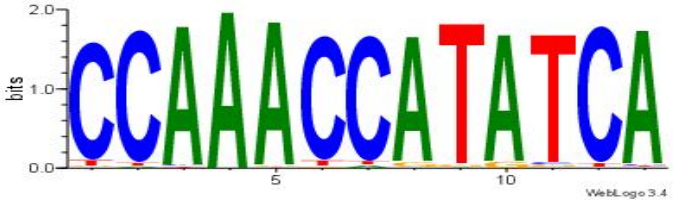

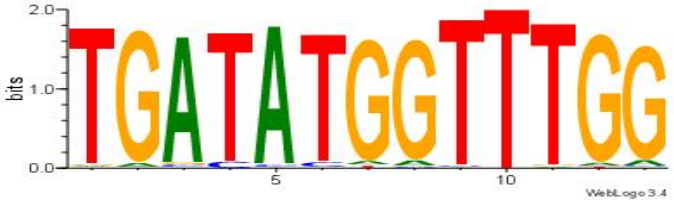

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0991344

Alignment:

```
TAGTGGTGATTTSTGAGAT
-TGGCGTGATCTCG-----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

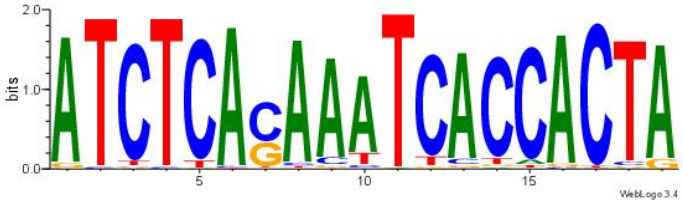

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

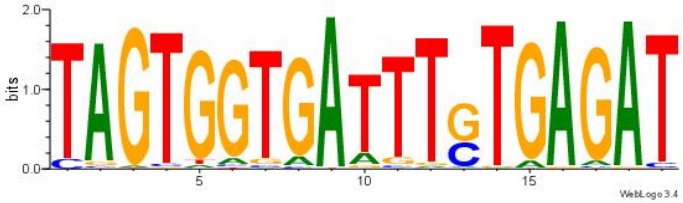

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.100514

Alignment:

```
CTCCAGKTMCATCCATGTTG
-----CGAGATCACGCCA--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

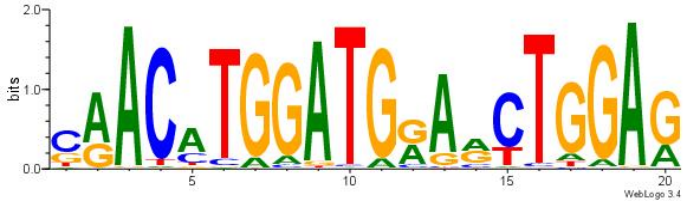

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

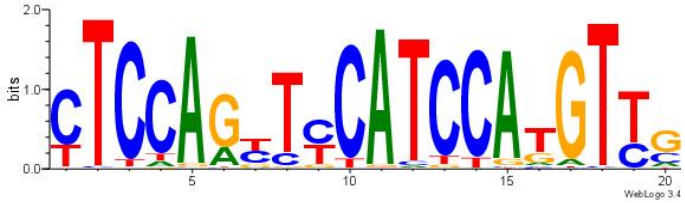

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.10095

Alignment:
ACCTGGAAAATCGGGTCACT
-----CGAGATCACGCCA--

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

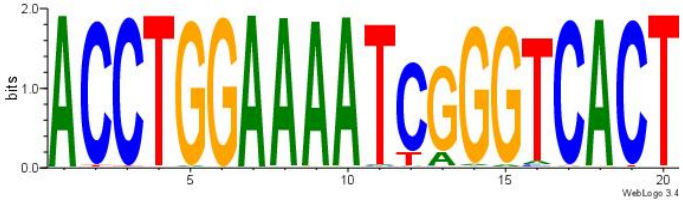

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

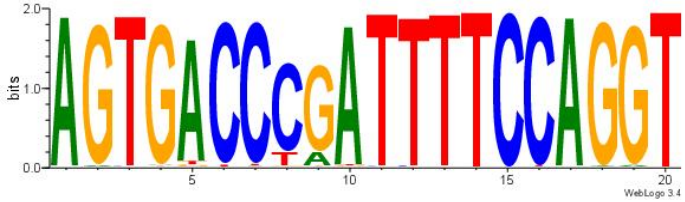

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 13
Similarity score: 0.101649

Alignment:
GGGAGGTGTCTCCCAGTCAG
TGGCGTGATCTCG-------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

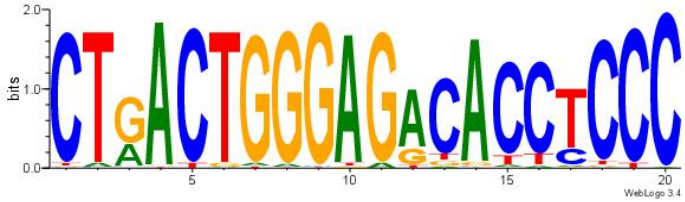

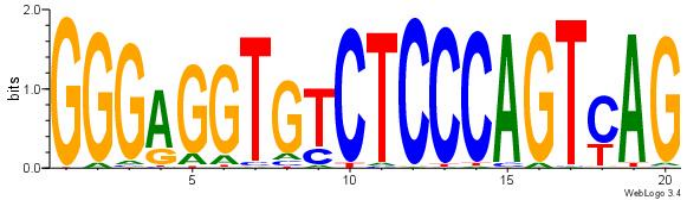

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.101797

Alignment:

```
MGTGTGATGTCTCCCCC
----CGAGATCACGCCA
```

Original motif Consensus sequence: GGGGGAGACATCACACR

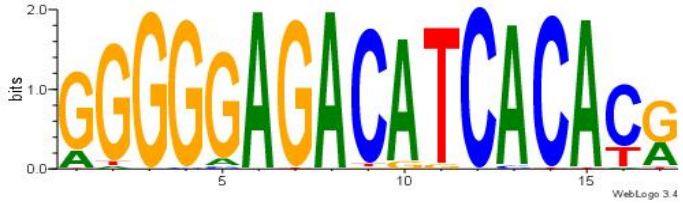

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

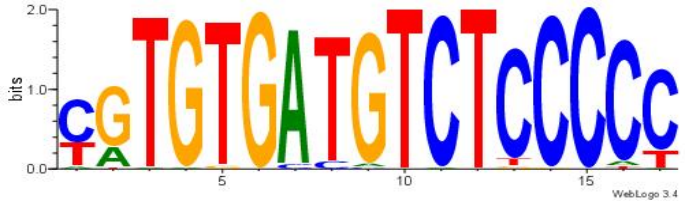

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.10189

Alignment:

```
MTCCTCCAGACCCCAGAATG
-----CGAGATCACGCCA--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

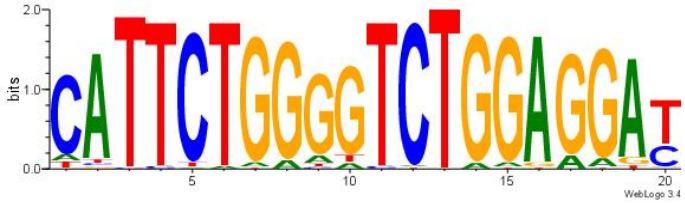

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

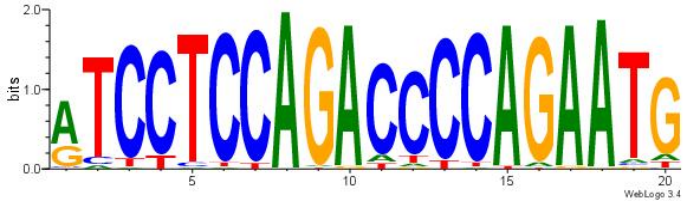

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.102072

Alignment:
AAAGTGCCGAGAKTGCAGC
--TGGCGTGATCTCG----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

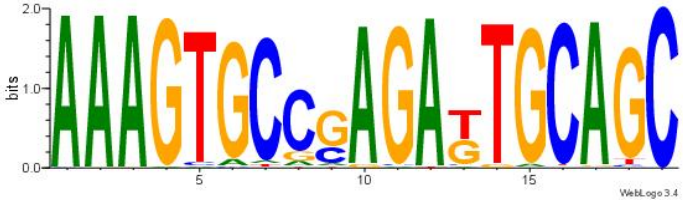

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

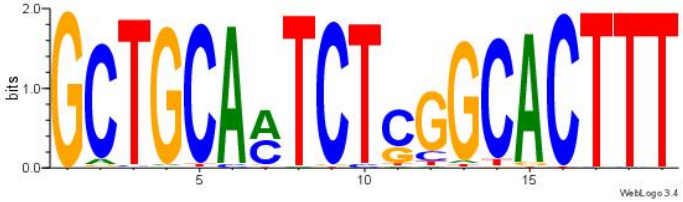

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.102126

Alignment:
CTTGCCCAAGGTCACACAGC
-CGAGATCACGCCA------

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

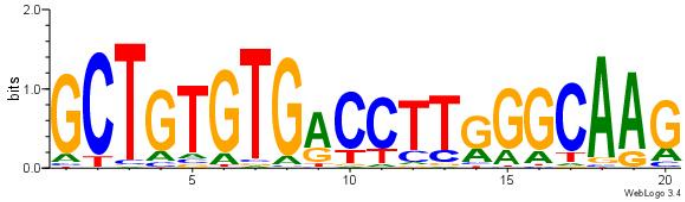

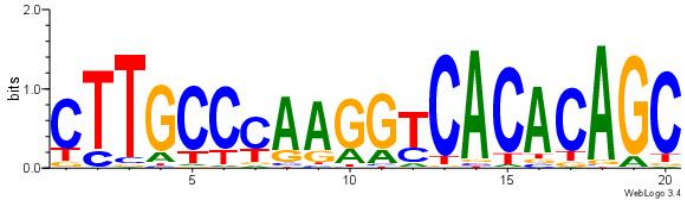

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.102624

Alignment:

```
TGTGAAGAGACCACCAA
---CGAGATCACGCCA-
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

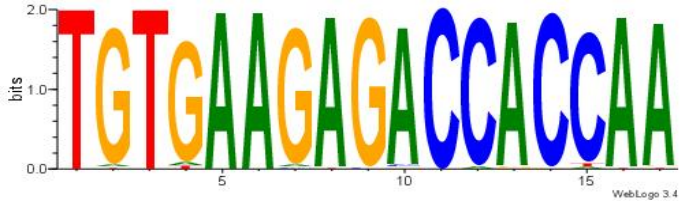

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

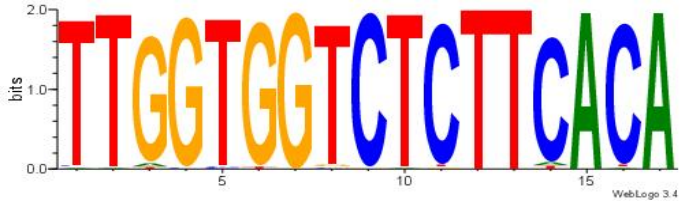

Dataset #: 1

Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.102786

Alignment:

```
CTCARGTGATCCTCC
-TGGCGTGATCTCG-
```

Original motif Consensus sequence: CTCARGTGATCCTCC

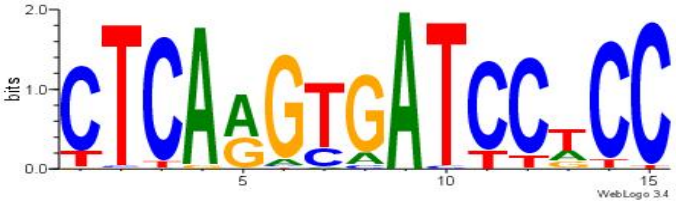

Reverse complement motif Consensus sequence: GGAGGATCACKTG

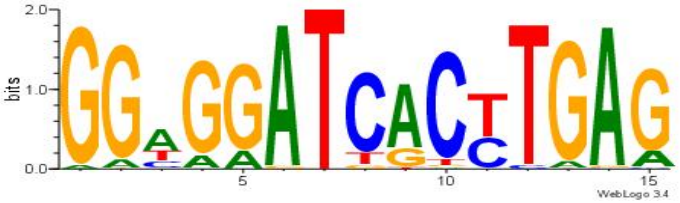

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.102932

Alignment:
CTTTCTGGGCTGGCCAAGG
-----TGGCGTGATCTCG-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

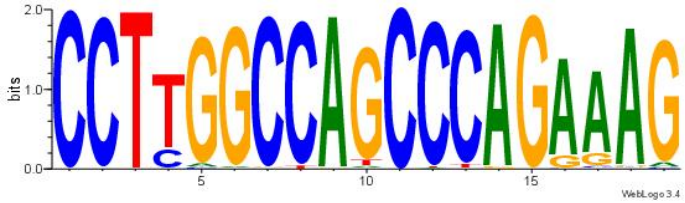

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

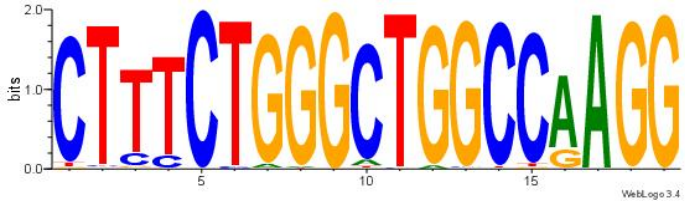

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.102967

Alignment:
CTGTTTGCCTGGGTATCA
-----TGGCGTGATCTCG

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence:
CTGTTTGCCTGGGTATCA

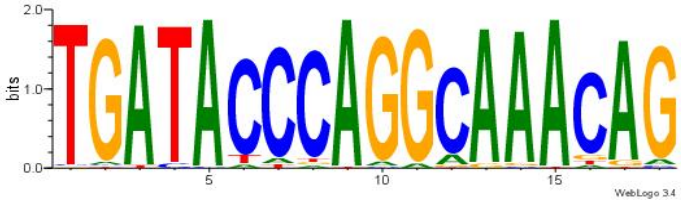

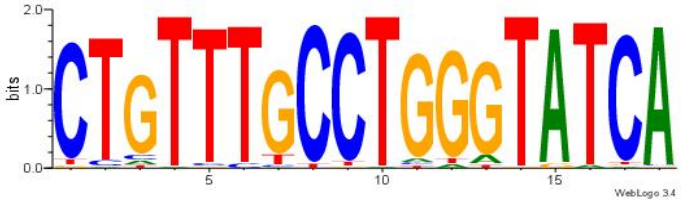

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.103159

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----CGAGATCACGCCA--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

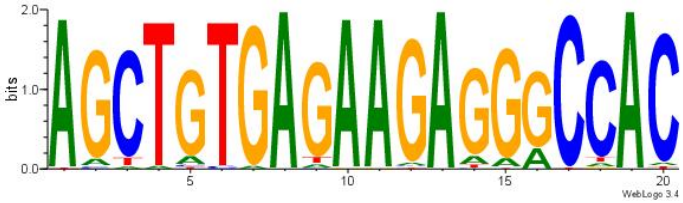

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

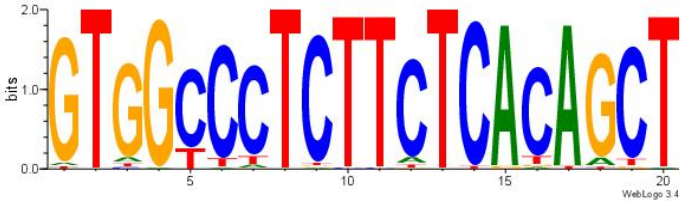

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.103287

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
---TGGCGTGATCTCG----
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

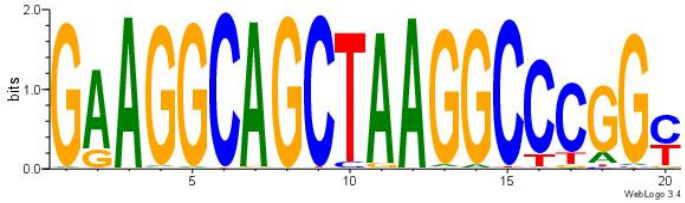

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

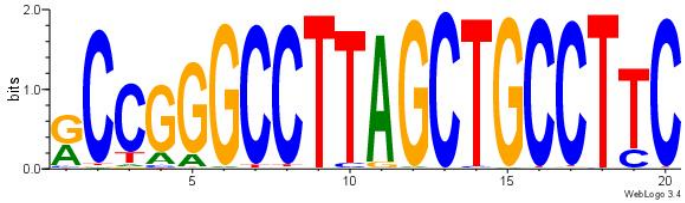

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.103456

Alignment:
CCGCGGGGCAGGGCTCG
----TGGCGTGATCTCG

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

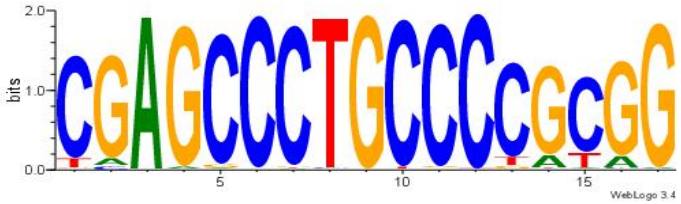

Reverse complement motif Consensus sequence:
CCGCGGGGCAGGGCTCG

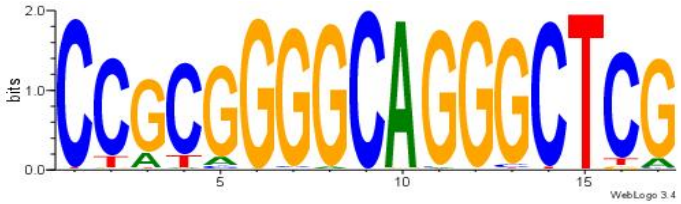

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.103556

Alignment:
GGTGGGGGGGTCAGCCCCC
-CGAGATCACGCCA-----

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

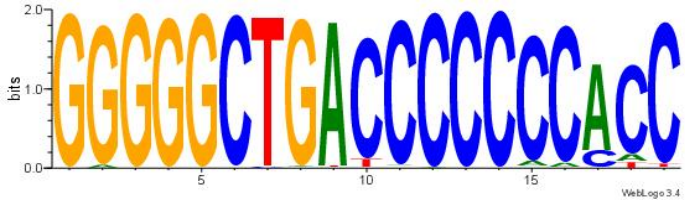

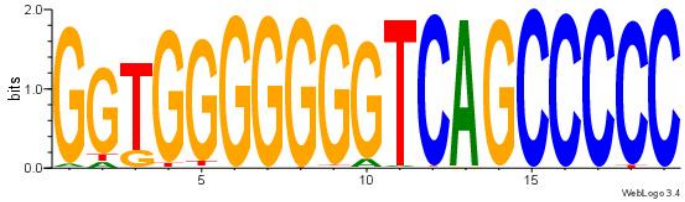

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.103646

Alignment:

```
AGAGCCAAATCATGARTGAA
----CGAGATCACGCCA---
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

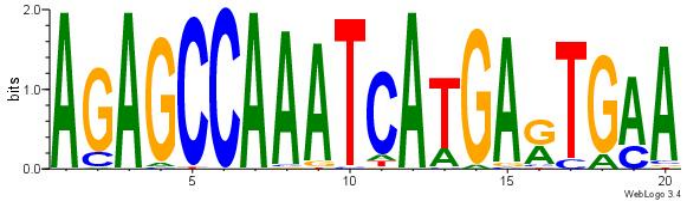

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

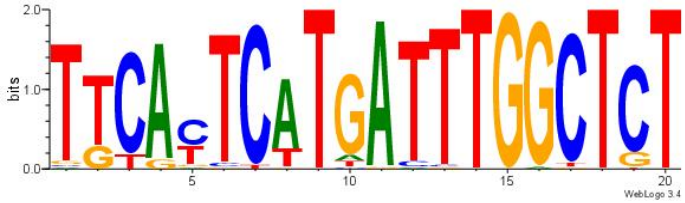

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.103927

Alignment:

```
GGCATCACGGATCCTACCAA
------CGAGATCACGCCA-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

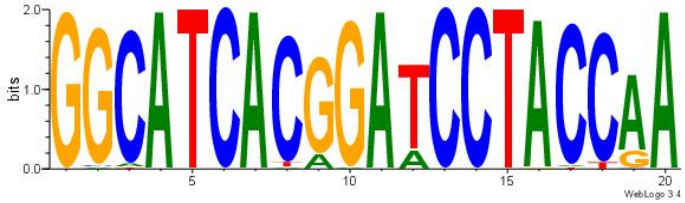

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

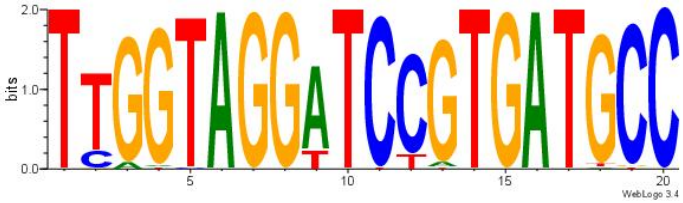

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.103975

Alignment:
CTCAGTGTTAATCTCCTGTC
---TGGCGTGATCTCG----

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

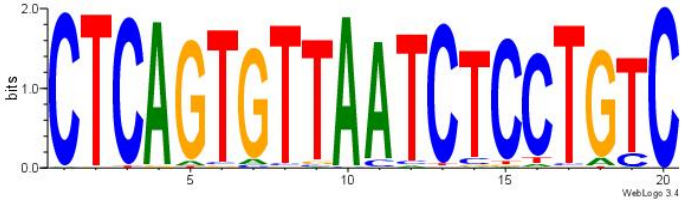

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

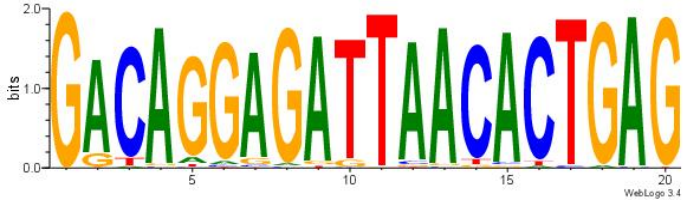

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.104078

Alignment:
AGAGCTCTGGCTGGCATCT
CGAGATCACGCCA------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

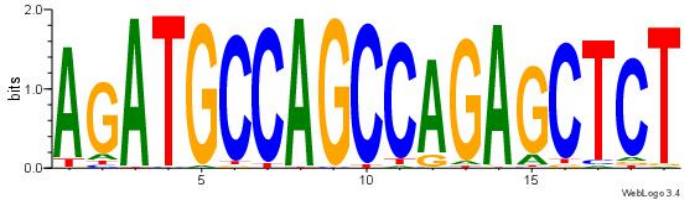

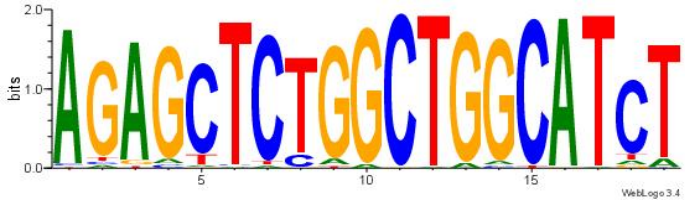

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.10417

Alignment:

```
CGGCTCGCGCACGG
TGGCGTGATCTCG-
```

Original motif Consensus sequence: CCGTGCGCGAGCCG

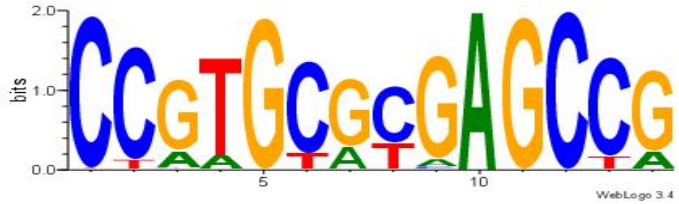

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

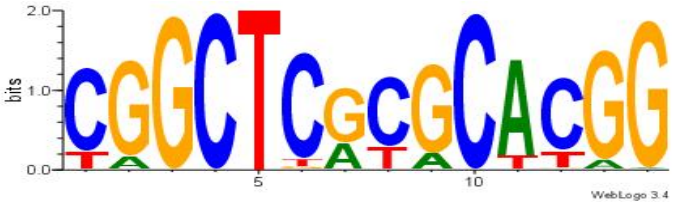

Dataset #:	1
Motif ID:	148

Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.104345

Alignment:

```
CTTCGCTGACTCTCTTT
--TGGCGTGATCTCG--
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

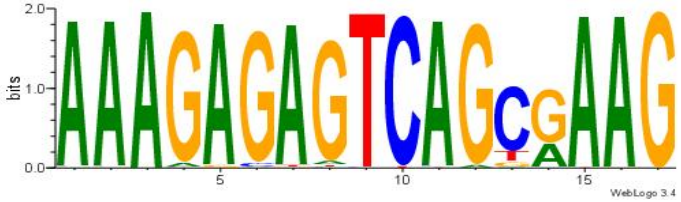

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

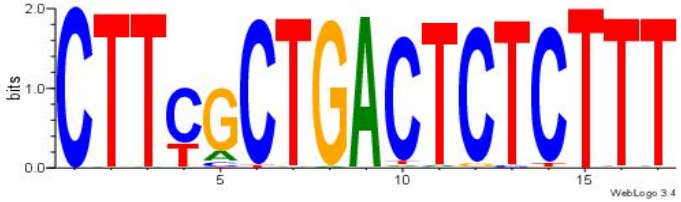

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.104925

Alignment:
TCTGGAGTGGACCTCCAGCA
--TGGCGTGATCTCG-----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

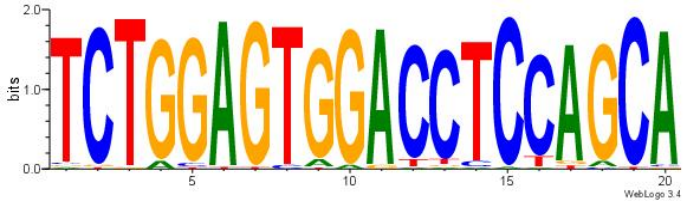

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

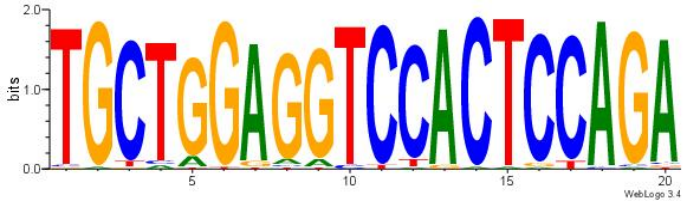

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.105001

Alignment:
GGGAGGGATATATTAGC
TGGCGTGATCTCG----

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence:
GCTAATATATCCCTCCC

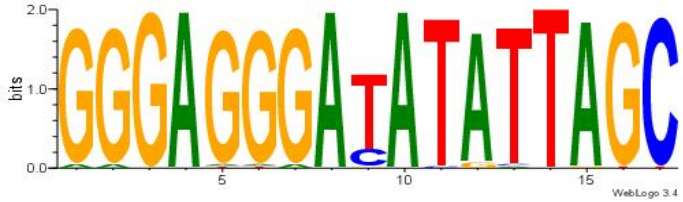

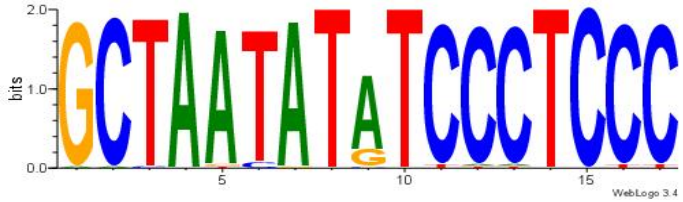

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.105485

Alignment:

```
GGCAATGCCTCGCCCTGCTT
-----CGAGATCACGCCA--
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

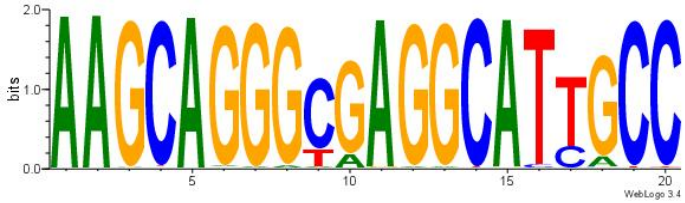

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

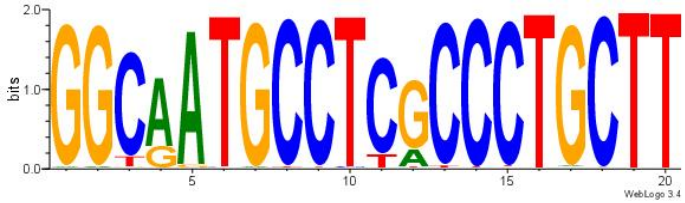

Dataset #:	1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.105611

Alignment:

```
TCAGGAGTGAAGCTGC
--TGGCGTGATCTCG-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

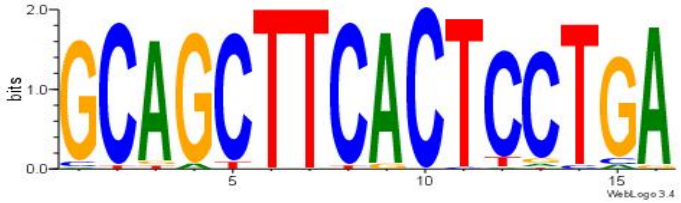

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

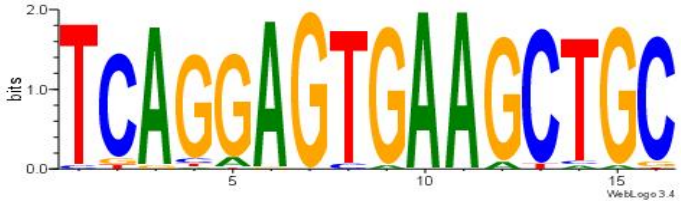

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.105845

Alignment:
CTTGGGTGGTCGATGGGAC
-TGGCGTGATCTCG-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

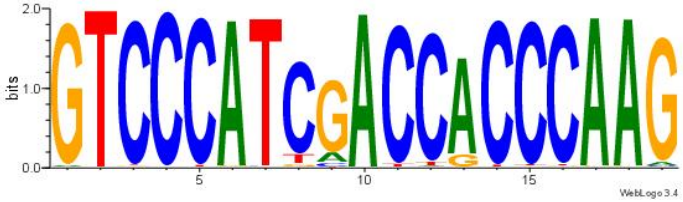

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

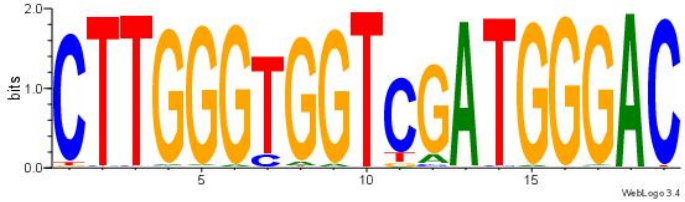

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.10638

Alignment:
AAGCTCGAACTGGGTGGAGC
TGGCGTGATCTCG-------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

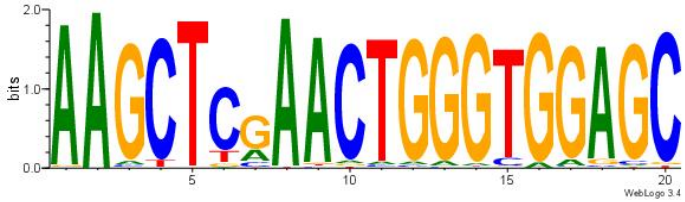

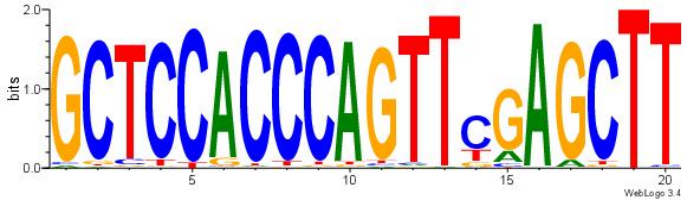

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106785

Alignment:

```
CAAGTTGACACATAAAATTA
CGAGATCACGCCA-------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

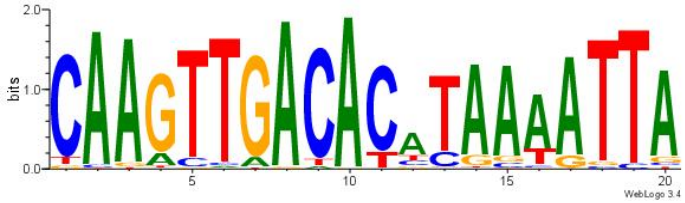

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

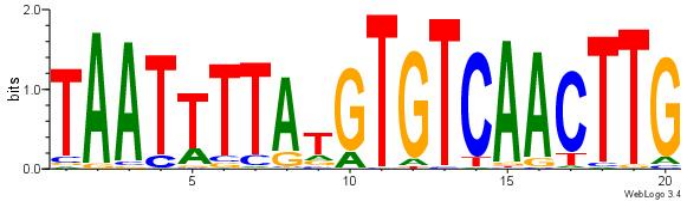

Dataset #: 1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.107444

Alignment:

```
ATTGGTGTATTTACAATCCC
-----TGGCGTGATCTCG--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

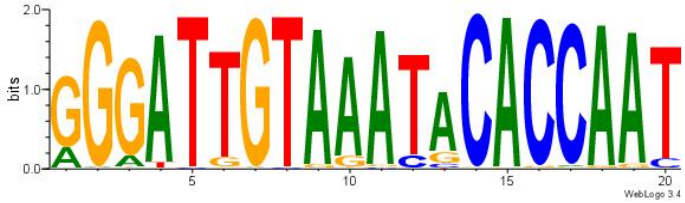

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.107629

Alignment:
GGAGCCCACGGAGG
-CGAGATCACGCCA

Original motif Consensus sequence: CCTCCGTGGGCTCC

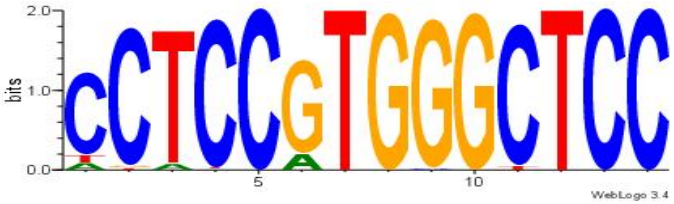

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

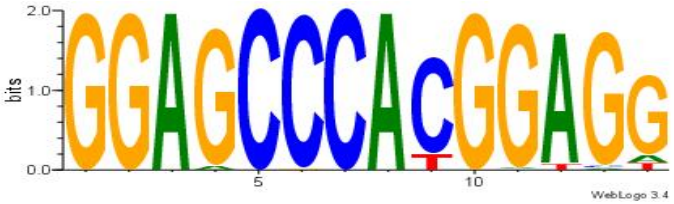

Dataset #: 1
Motif ID: 276
Motif name: Motif 276
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.107756

Alignment:
TGGCCTGTTAGGAA
TGGCGTGATCTCG-

Original motif Consensus sequence: TGGCCTGTTAGGAA

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

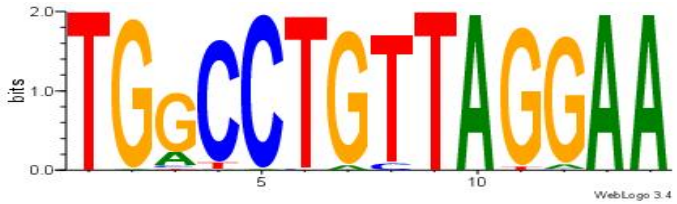

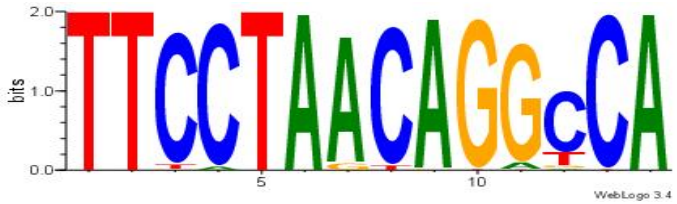

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.108248

Alignment:

```
TTGGAGGTTCTAGCAGGG
TGGCGTGATCTCG-----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

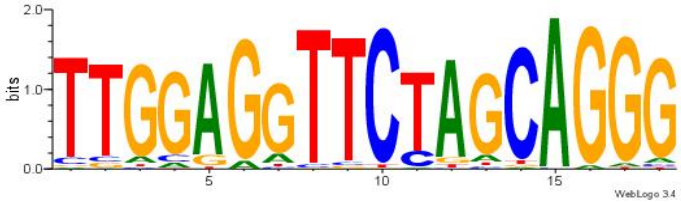

Dataset #: 1 Motif ID: 223 Motif name: Motif 223

Original motif Consensus sequence: AGCCTCCYGAGTA

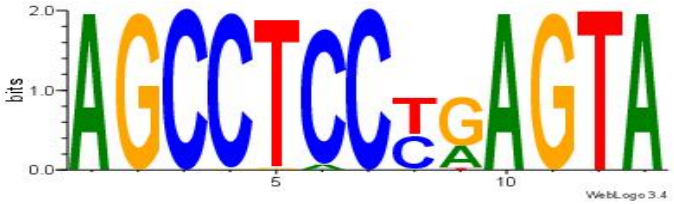

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

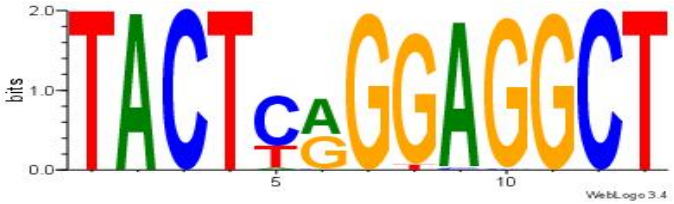

Best Matches for Motif ID 223 (Highest to Lowest)

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0672113

Alignment:

```
AAGTCTCCCAATTACAACT
-AGCCTCCYGAGTA-----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

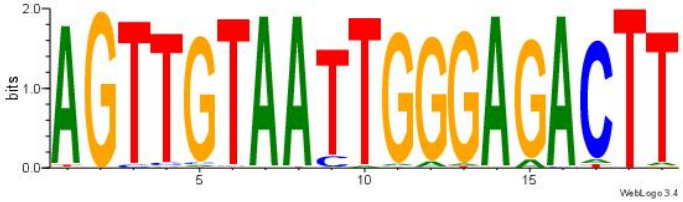

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

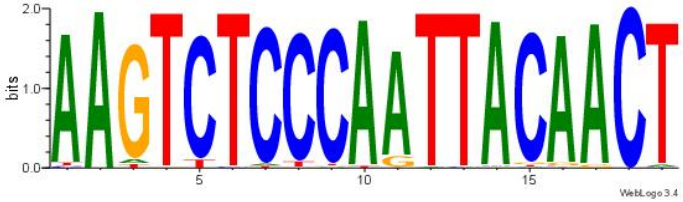

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.075298

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
--AGCCTCCYGAGTA-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

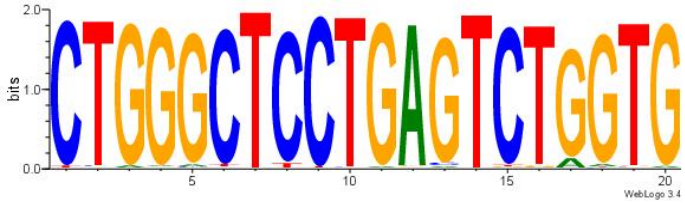

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

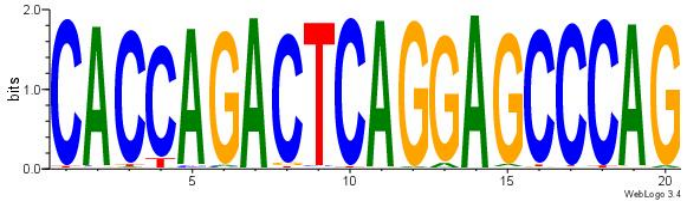

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 13
Similarity score: 0.0838744

Alignment:
CTTGCGCTTCCCRRGTGA
----AGCCTCCYGAGTA-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

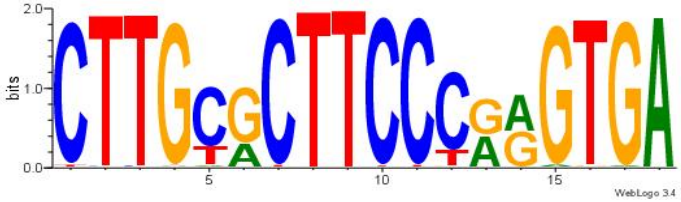

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

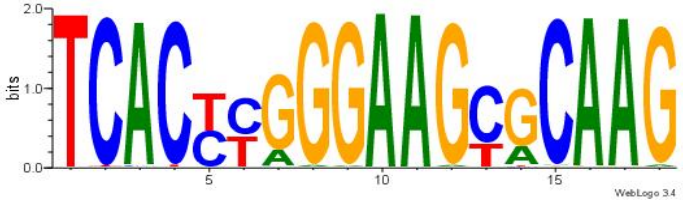

Dataset #: 1
Motif ID: 239
Motif name: Motif 239
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0898433

Alignment:
AGCCTCCAGAACTGT
AGCCTCCYGAGTA--

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0907206

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
--AGCCTCCYGAGTA-----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

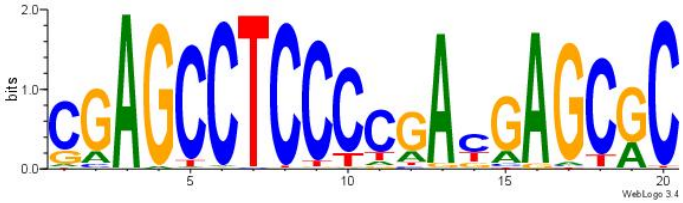

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

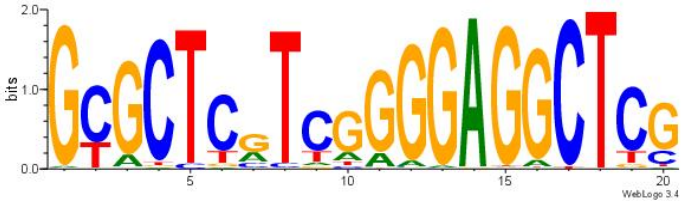

Dataset #:	1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.091799

Alignment:

```
TACACCCTCCGCAGCC
AGCCTCCYGAGTA---
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

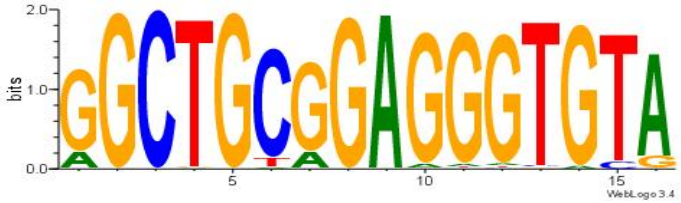

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

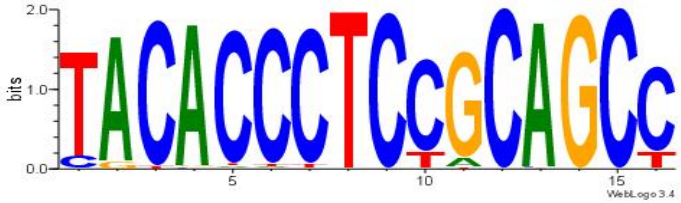

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.09501

Alignment:
CAAGCCTSKGCAATGGCAGG
-----AGCCTCCYGAGTA--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

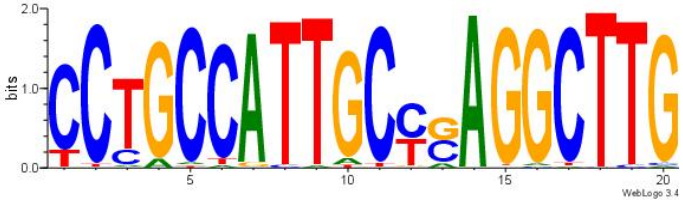

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

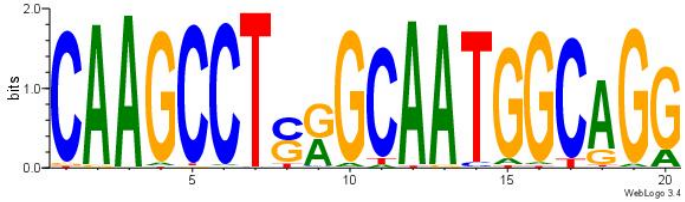

Dataset #: 1
Motif ID: 33
Motif name: Motif 33
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0961263

Alignment:
GAGACTCCGTGGGCGT
--TACTCMGGAGGCT-

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence:
GAGACTCCGTGGGCGT

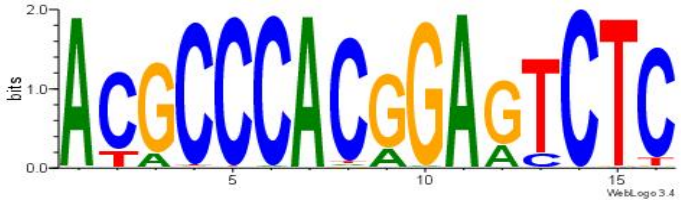

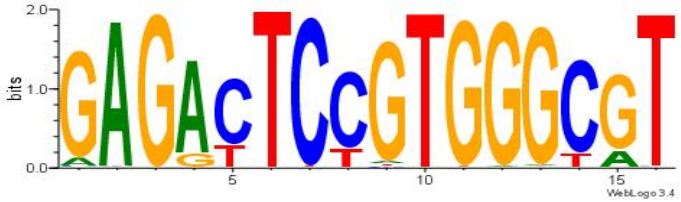

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.103121

Alignment:

```
CATTCTGGGGTCTGGAGGAY
TACTCMGGAGGCT-------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

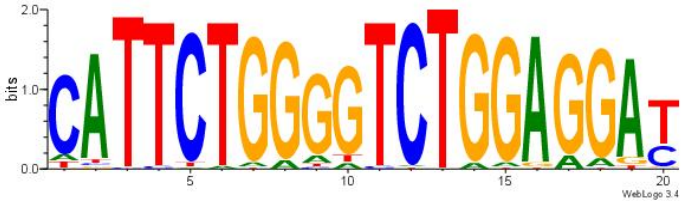

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

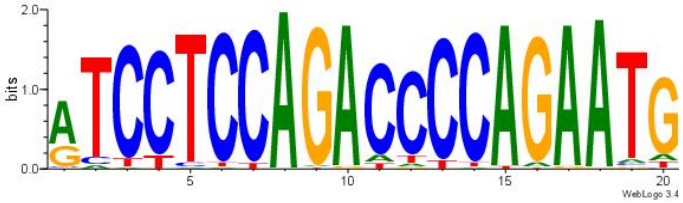

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.103555

Alignment:

```
AATCAACCCTGGYRATCAAT
-----AGCCTCCYGAGTA--
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

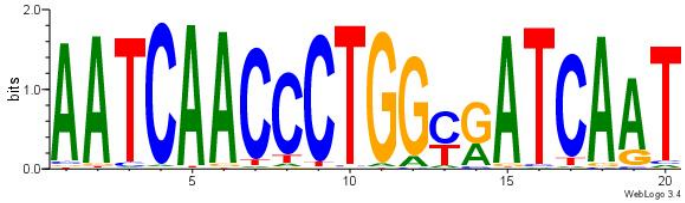

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

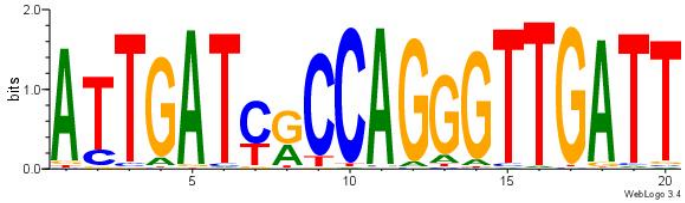

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.106819

Alignment:
GGTCAGGATCATCAATAT
-AGCCTCCYGAGTA----

Original motif Consensus sequence: ATATTGATGATCCTGACC

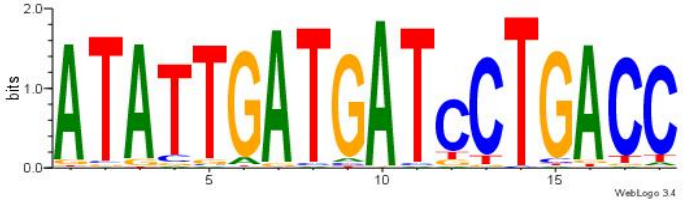

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

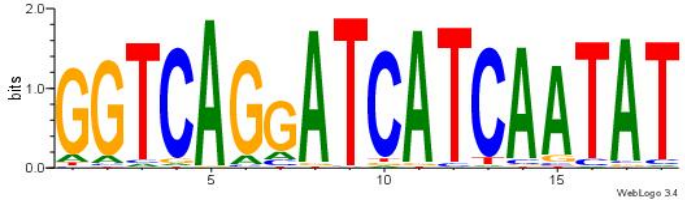

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.106918

Alignment:
CGTCGCTCACGCTGGGAGCT
-------TACTCMGGAGGCT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

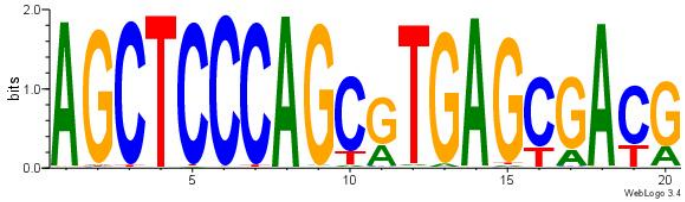

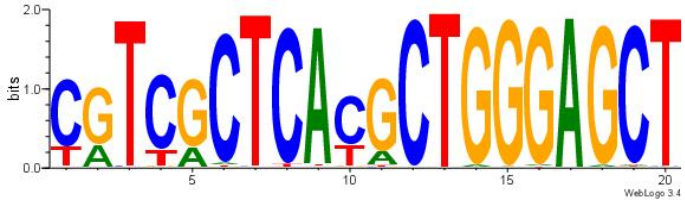

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.10735

Alignment:

```
AGGACTGAGGGTGCCYRGGG
--TACTCMGGAGGCT-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

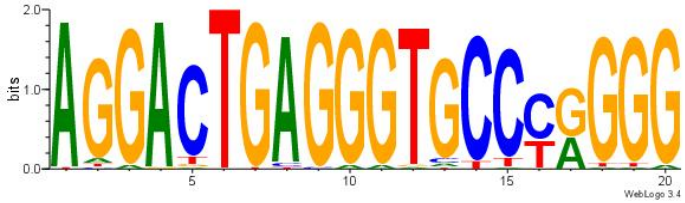

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

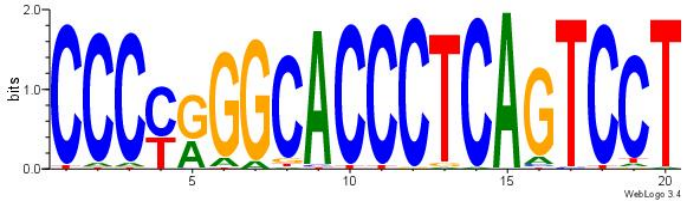

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.107483

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AGCCTCCYGAGTA-------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

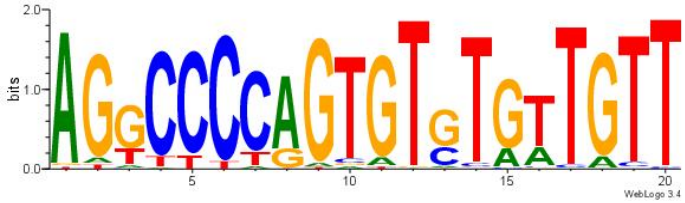

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

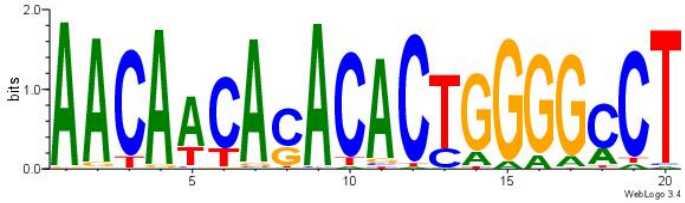

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.107956

Alignment:
CCTTGGCCAGCCCAGAAAG
----AGCCTCCYGAGTA--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

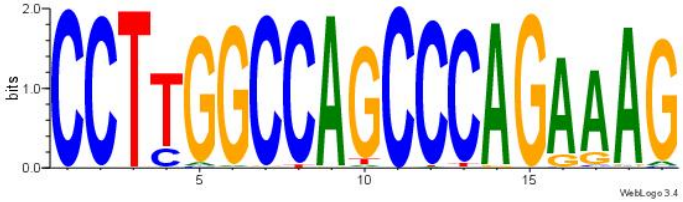

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

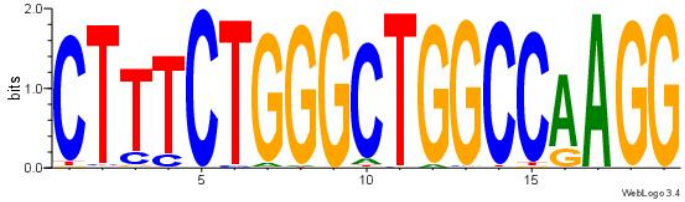

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.108947

Alignment:
GCCCTCACCAGAAGC
AGCCTCCYGAGTA--

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

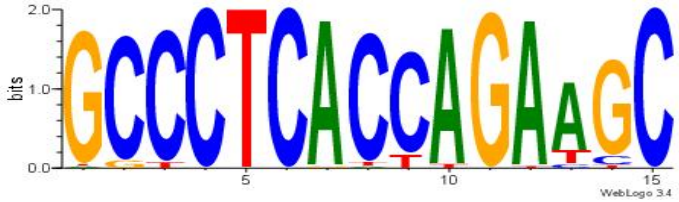

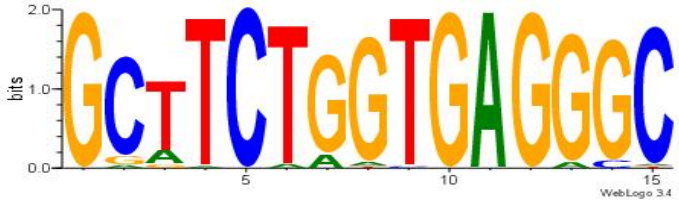

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.109306

Alignment:

```
ACATCMTCTGAAATCTAGG
---TACTCMGGAGGCT---
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

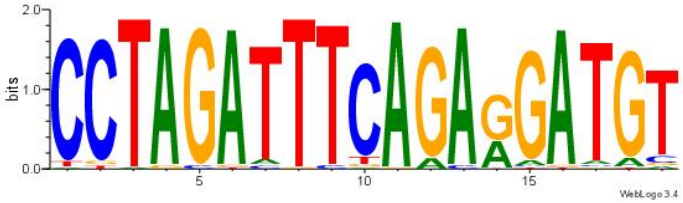

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

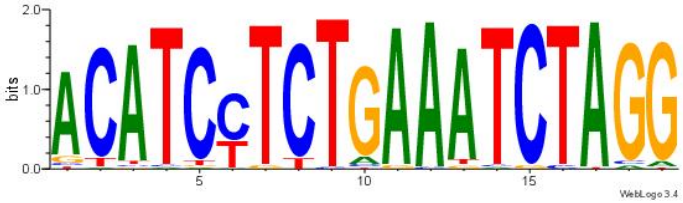

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.109493

Alignment:

```
ACCCAATWTGTAGTCTTTTA
---TACTCMGGAGGCT----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

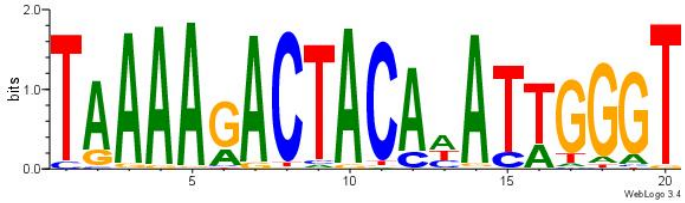

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

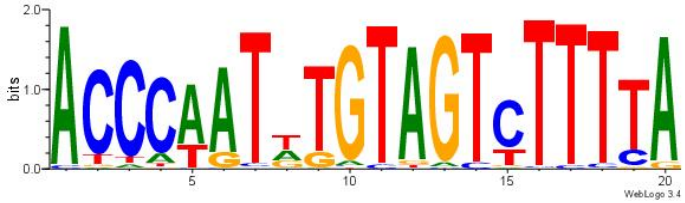

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.10968

Alignment:
TGCCCAGTCTGGAAAGTG
-----AGCCTCCYGAGTA

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

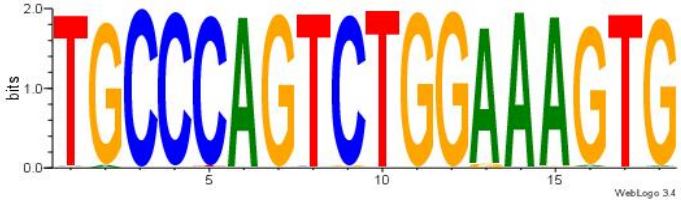

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

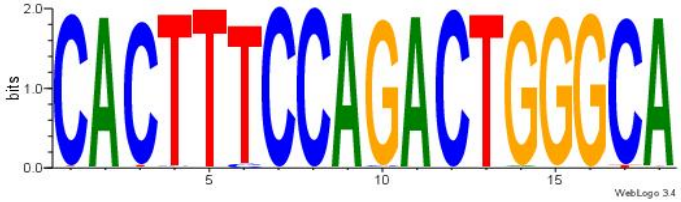

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.109912

Alignment:
ATGGCTGAATAKTATTCCAT
------AGCCTCCYGAGTA-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

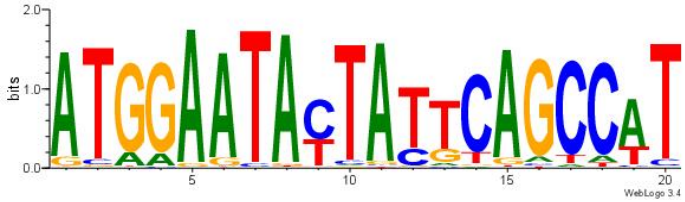

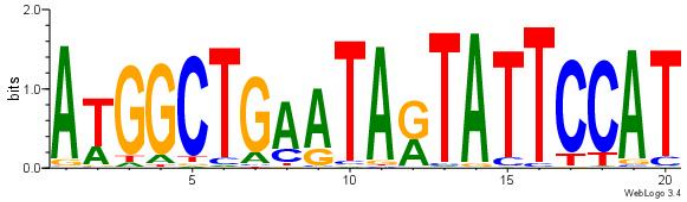

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.111516

Alignment:

```
ACCTGGAAAATCGGGTCACT
TACTCMGGAGGCT-------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

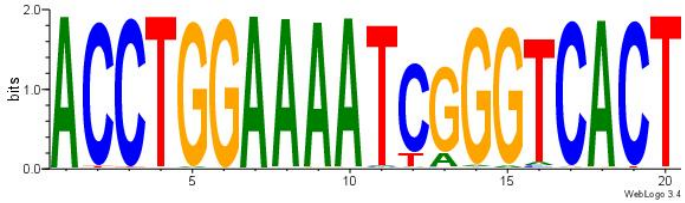

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

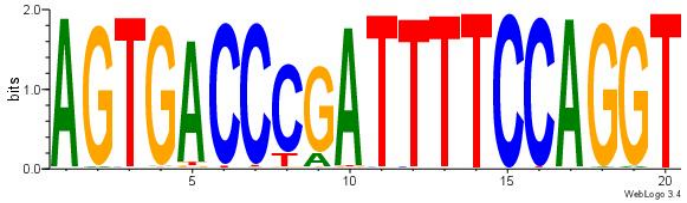

Dataset #: 1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111615

Alignment:

```
CACTAGGGAGTGCC
-TACTCMGGAGGCT
```

Original motif Consensus sequence: CACTAGGGAGTGCC

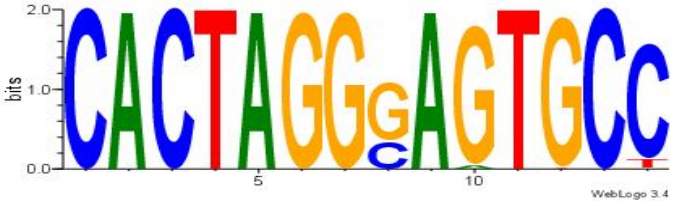

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

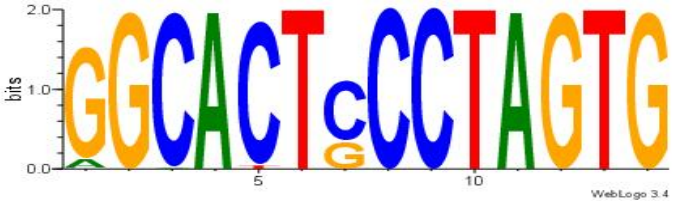

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.113975

Alignment:
AACCCTATTGTGAACTGYG
-AGCCTCCYGAGTA-----

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

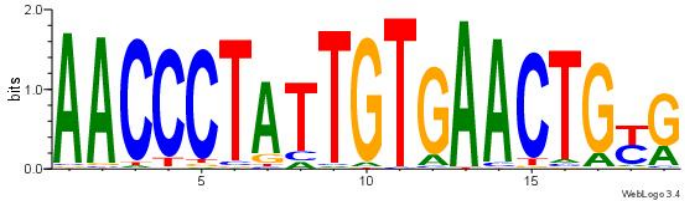

Reverse complement motif Consensus sequence:
CMCAGTTCACAATAGGGTT

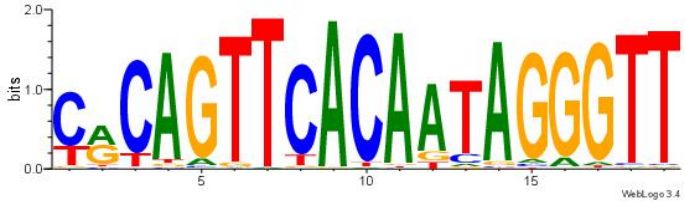

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.114007

Alignment:
AGGTCCTTCAGGAGGTATTC
---TACTCMGGAGGCT----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

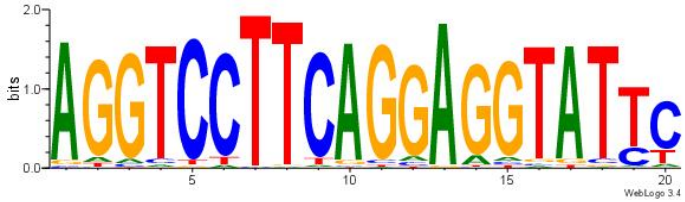

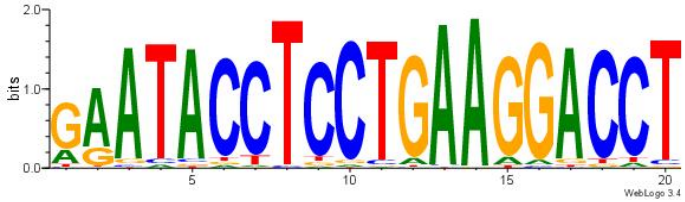

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.114855

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-----TACTCMGGAGGCT--
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

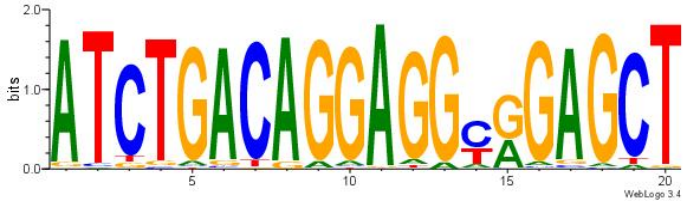

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

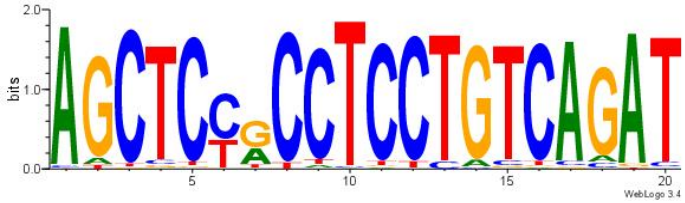

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.116734

Alignment:

```
GTTATTAATTGGCCTAATTT
--TACTCMGGAGGCT-----
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

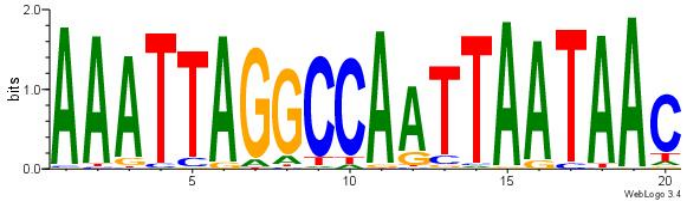

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.117459

Alignment:
GGGCTCCCACAGTGCAGCGG
------AGCCTCCYGAGTA-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

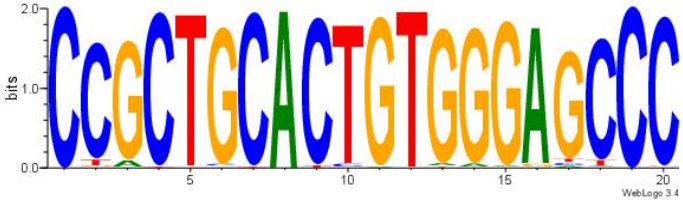

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

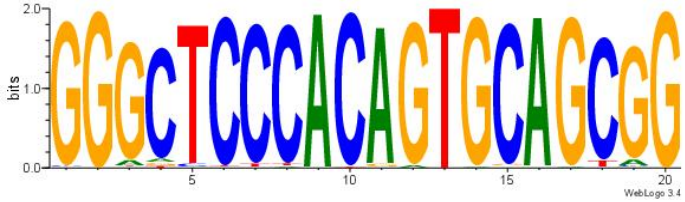

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.117813

Alignment:
GAAGGCAGCTAAGGCCCGGY
--AGCCTCCYGAGTA-----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

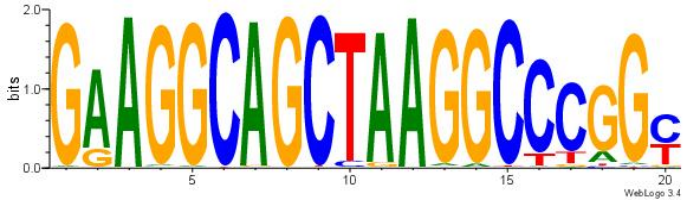

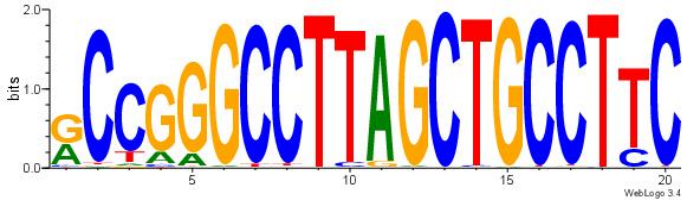

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.117819

Alignment:

```
GCTGGCCCKGGTGCTAAGC
--TACTCMGGAGGCT----
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

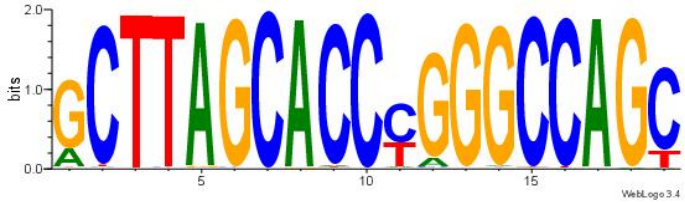

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

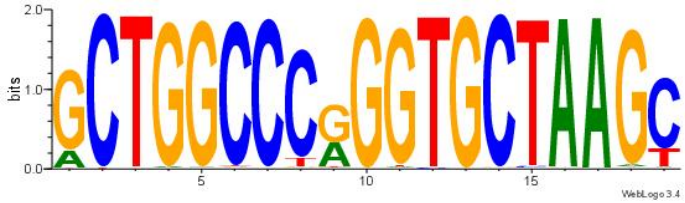

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.11789

Alignment:

```
TCCCTCCCGGACGGGGYGGC
AGCCTCCYGAGTA-------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

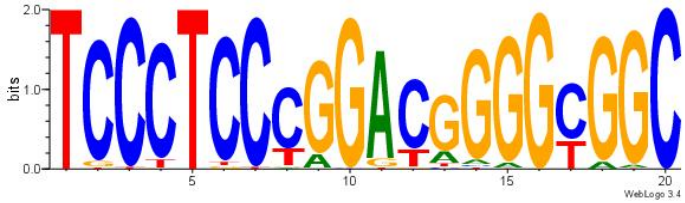

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

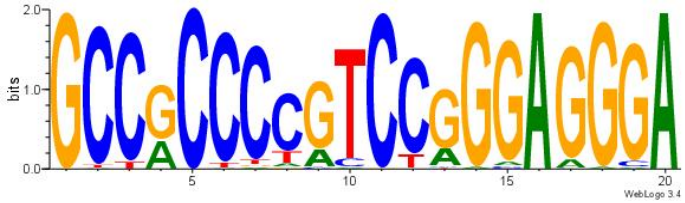

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.118383

Alignment:
ATGGACAYTTRGGTTGHTTC
--TACTCMGGAGGCT-----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

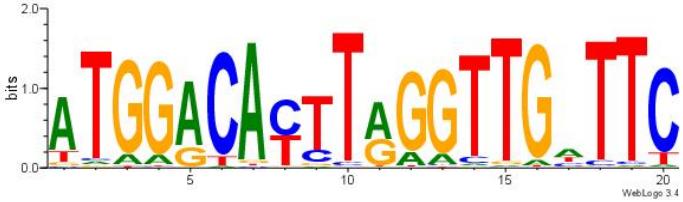

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

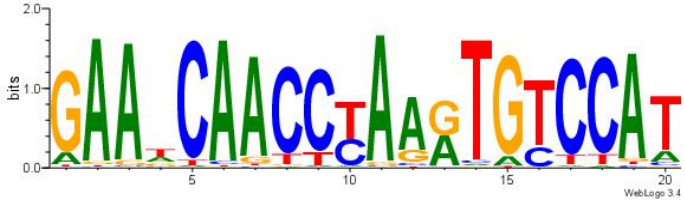

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.119043

Alignment:
AAAMAMMKMATGTTCTCACT
-TACTCMGGAGGCT------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

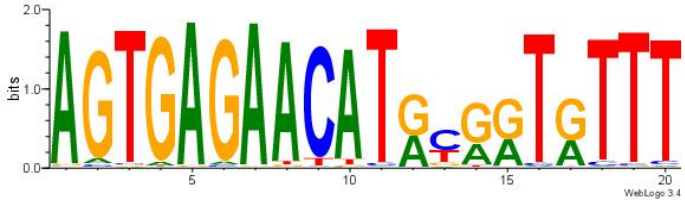

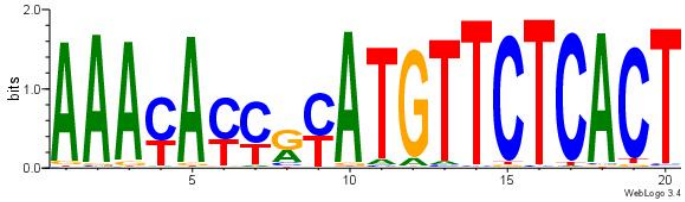

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.119245

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-TACTCMGGAGGCT------
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

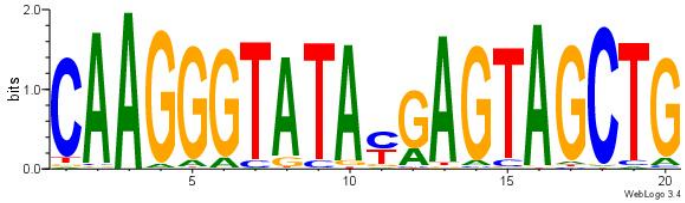

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

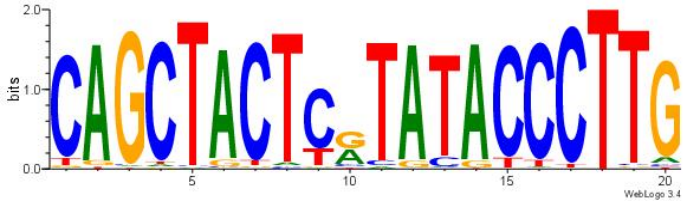

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.119285

Alignment:

```
ACTTTGGACTGTGGACTTTT
------TACTCMGGAGGCT-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

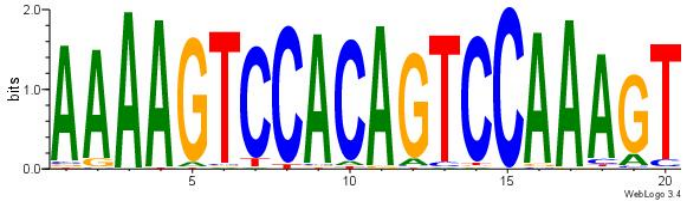

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

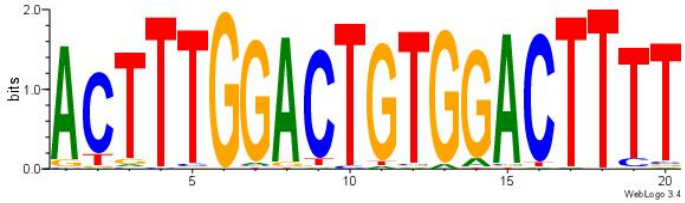

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.119408

Alignment:
GTACCTCAGWTGGAAATG
----AGCCTCCYGAGTA-

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

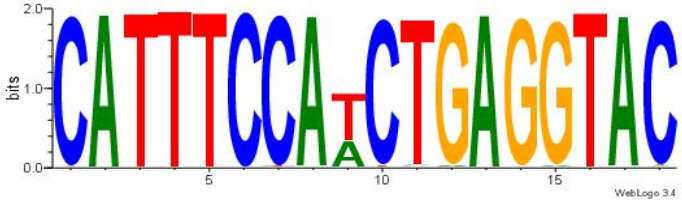

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

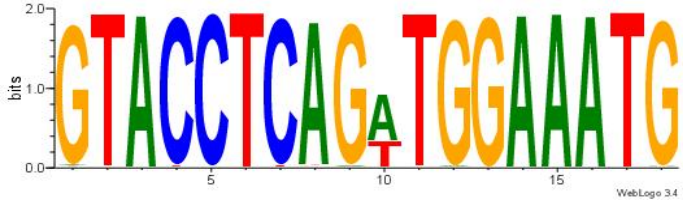

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.119713

Alignment:
AGACCAGCCTGGCCAAC
--AGCCTCCYGAGTA--

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

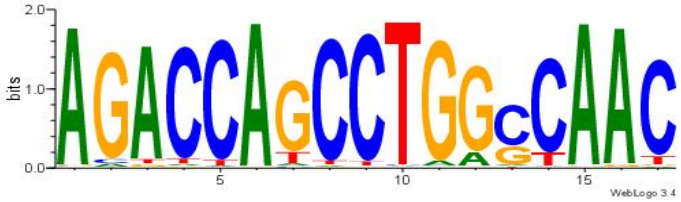

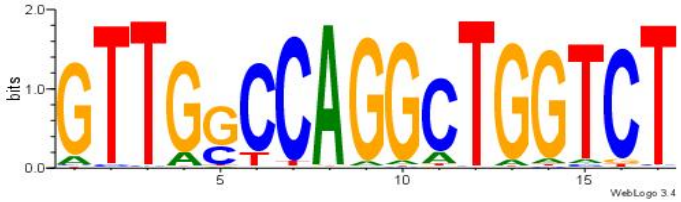

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.119803

Alignment:

```
ATAGGAATGCTTGTGATTTT
------AGCCTCCYGAGTA-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

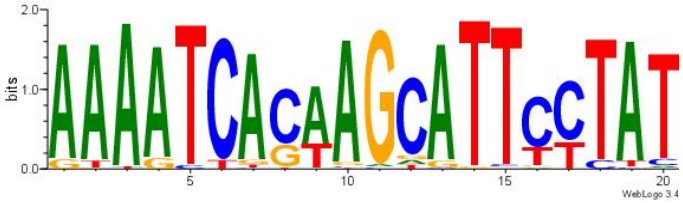

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

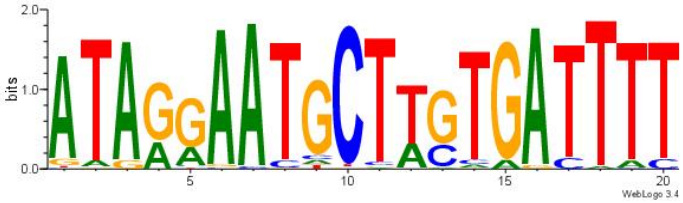

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.119967

Alignment:

```
GCACATGTAYCCYAGAACTT
-------TACTCMGGAGGCT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

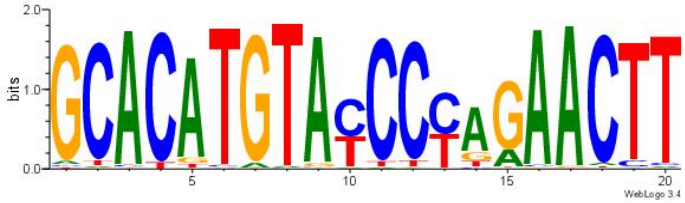

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

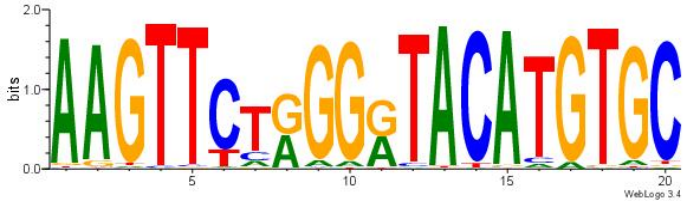

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.12012

Alignment:
AGTTCCGGGTGGGCGTGGG
----TACTCMGGAGGCT--

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

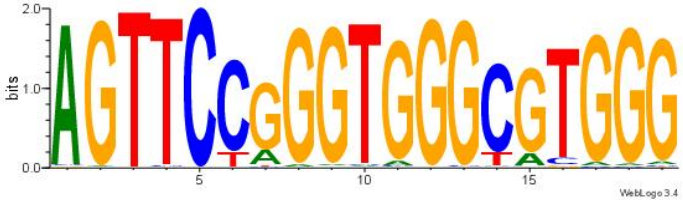

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

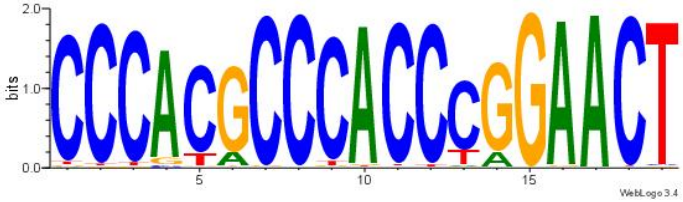

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.12037

Alignment:
AGGASCSTCYSWGCCMGGY
---AGCCTCCYGAGTA---

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

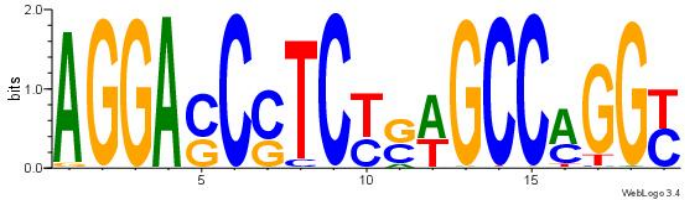

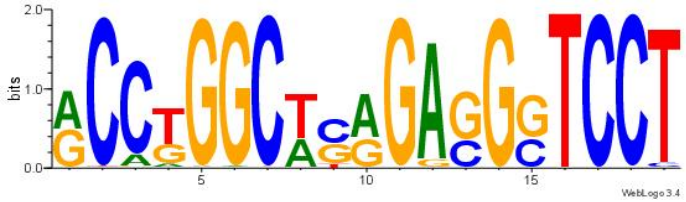

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.120401

Alignment:

```
GKCTGTACCCCCATTGTAT
-AGCCTCCYGAGTA-----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

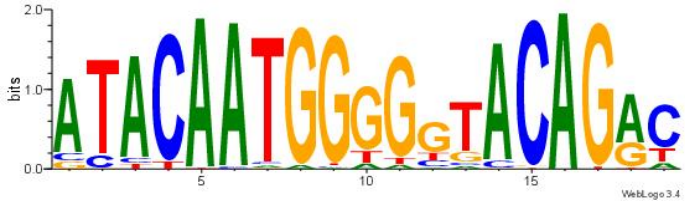

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

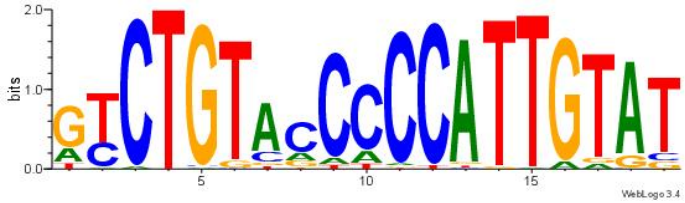

Dataset #:	1

Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.120698

Alignment:

```
MTACACTGTTGGTGG
-TACTCMGGAGGCT-
```

Original motif Consensus sequence: CCACCAACAGTGTAY

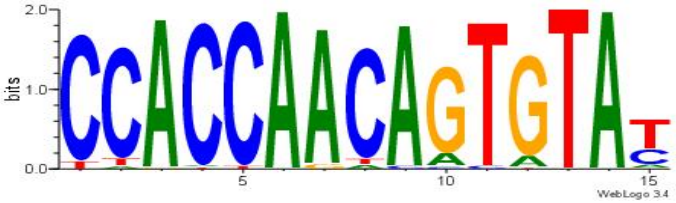

Reverse complement motif Consensus sequence: MTACACTGTTGGT

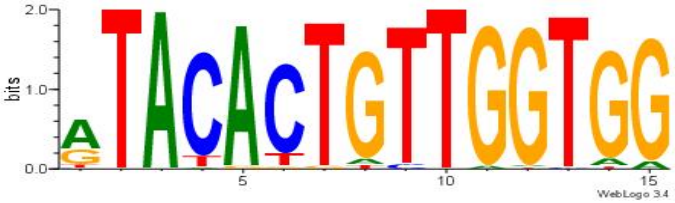

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.121502

Alignment:
GAGCTTTAAGATTT
-AGCCTCCYGAGTA

Original motif Consensus sequence: AAATCTTAAAGCTC

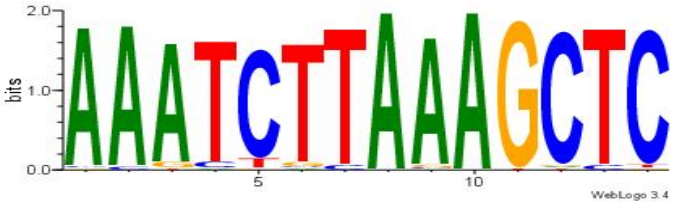

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

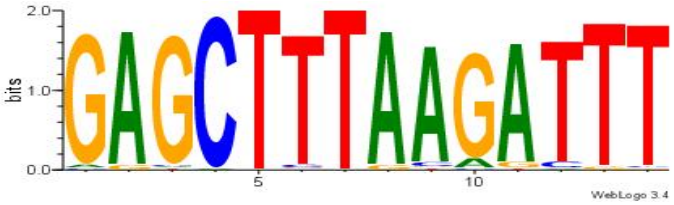

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.121623

Alignment:
TTCAMTCATGATTTGGCTCT
-----TACTCMGGAGGCT--

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

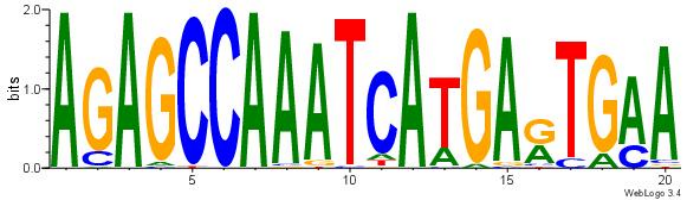

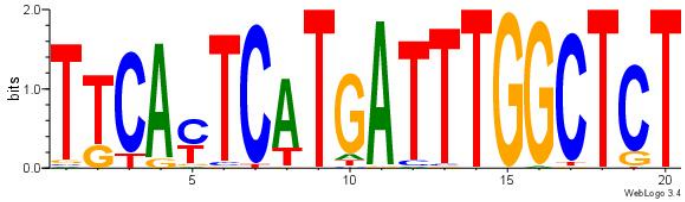

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.121822

Alignment:

```
GGCATCACGGATCCTACCAA
--TACTCMGGAGGCT-----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

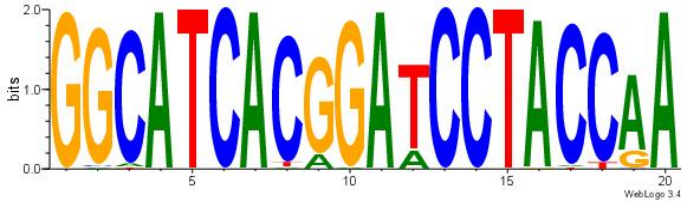

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

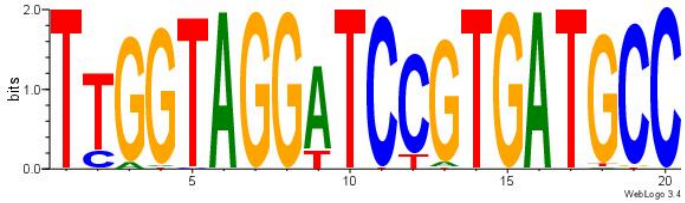

Dataset #: 1

Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.121851

Alignment:

```
TAATAAGGGTGTGGG
TACTCMGGAGGCT--
```

Original motif Consensus sequence: CCCACACCCTTATTA

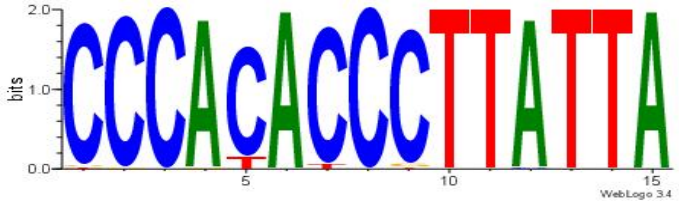

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

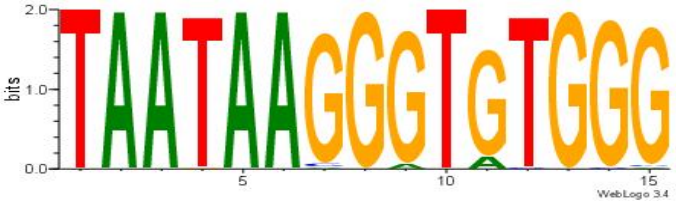

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.12225

Alignment:
TGATACCCAGGCAAACAG
TACTCMGGAGGCT-----

Original motif Consensus sequence: TGATACCCAGGCAAACAG

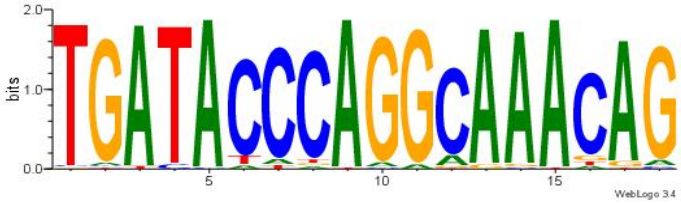

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

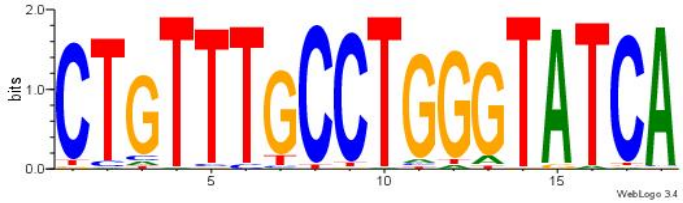

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.122946

Alignment:
TCAATGGGCTCCCAAATG
-----AGCCTCCYGAGTA

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

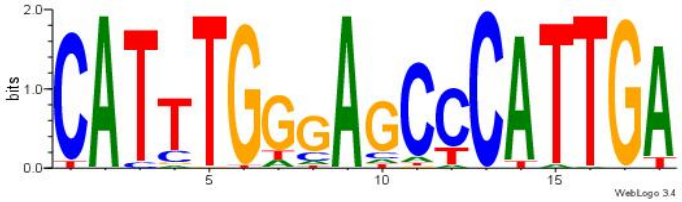

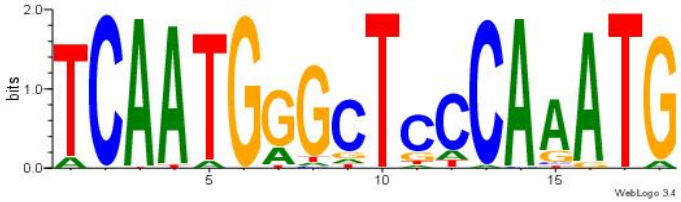

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.123211

Alignment:

```
CATTATGCTAARTG
-AGCCTCCYGAGTA
```

Original motif Consensus sequence: CATTATGCTAARTG

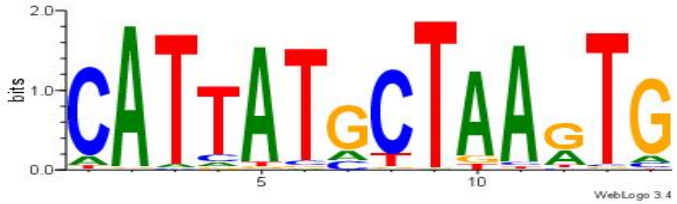

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

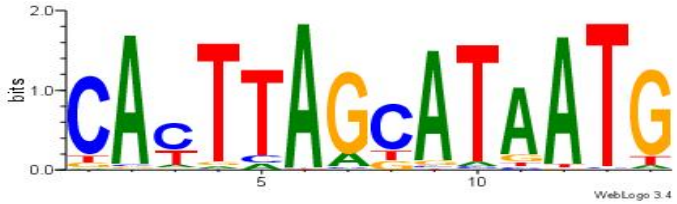

Dataset #:	1
Motif ID:	94

Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.123397

Alignment:

```
TAAGTGGGAGCTAARC
---TACTCMGGAGGCT
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

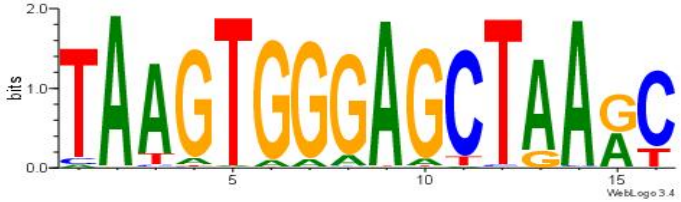

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

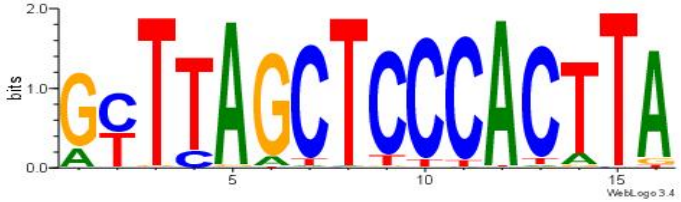

Dataset #: 1 Motif ID: 224 Motif name: Motif 224

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

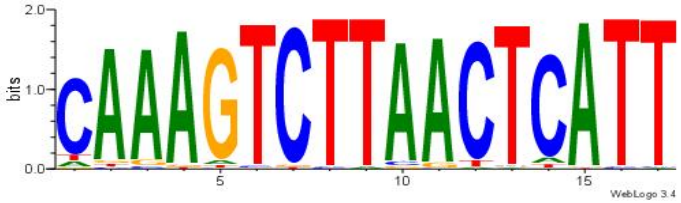

Best Matches for Motif ID 224 (Highest to Lowest)

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.10346

Alignment:
ATCATTCTTATGCCTTTG
CAAAGTCTTAACTCATT-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

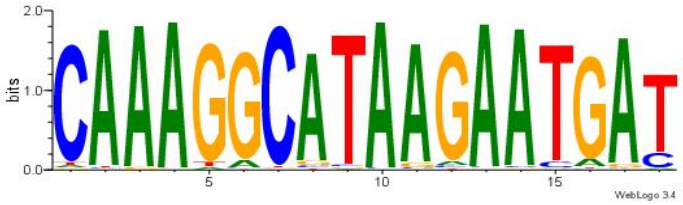

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

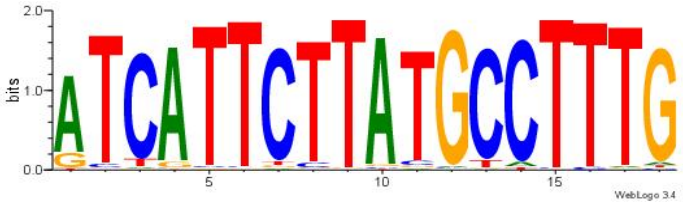

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.103511

Alignment:

```
TGAGKCAATTAAACCTCTT
AATGAGTTAAGACTTTG--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

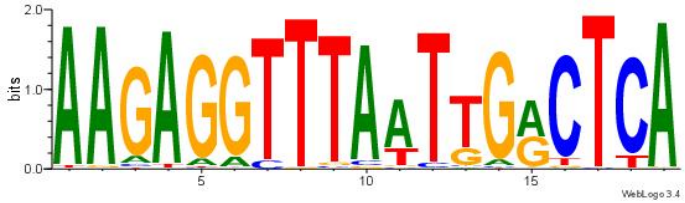

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

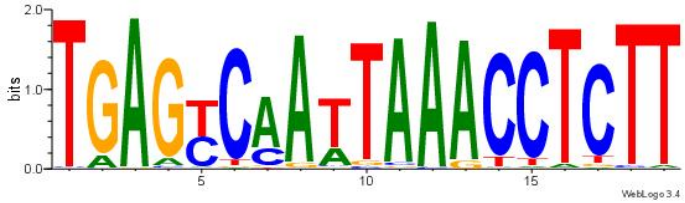

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.105466

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
--AATGAGTTAAGACTTTG-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

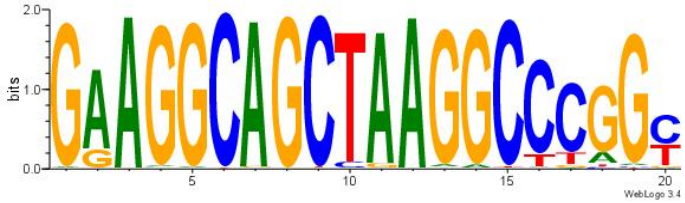

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

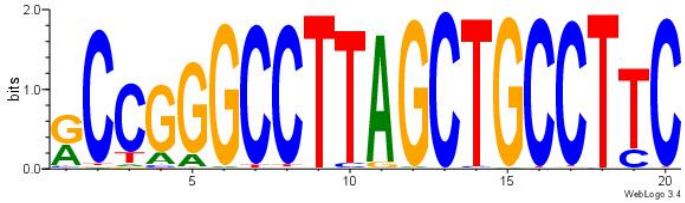

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.107183

Alignment:

```
AAAMAMMKMATGTTCTCACT
---CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

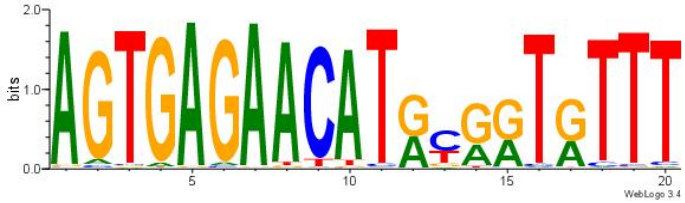

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

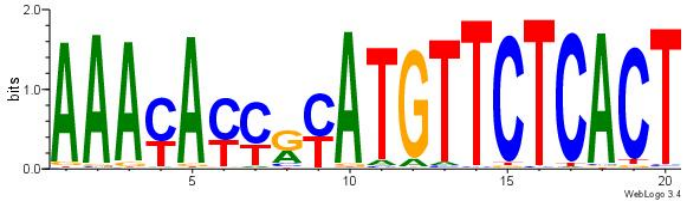

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.107753

Alignment:

```
CTCAGTGTTAATCTCCTGTC
CAAAGTCTTAACTCATT---
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

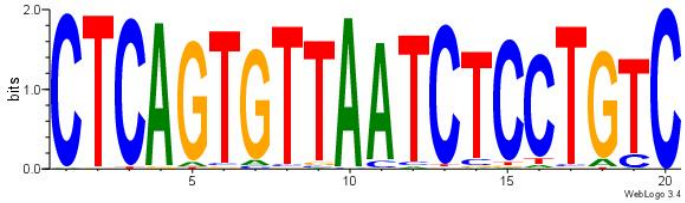

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

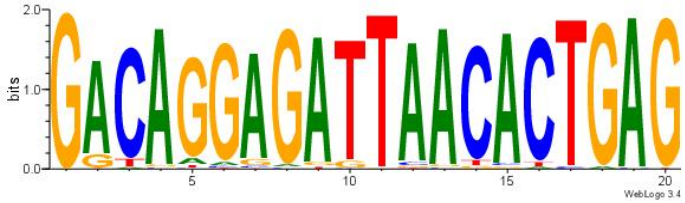

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.10852

Alignment:
ACATCMTCTGAAATCTAGG
-CAAAGTCTTAACTCATT-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

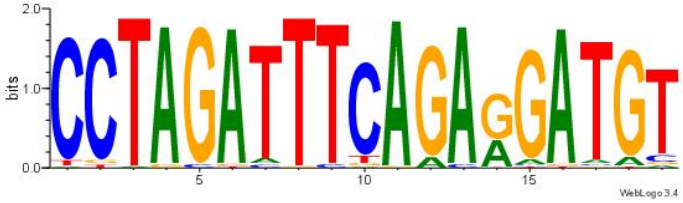

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

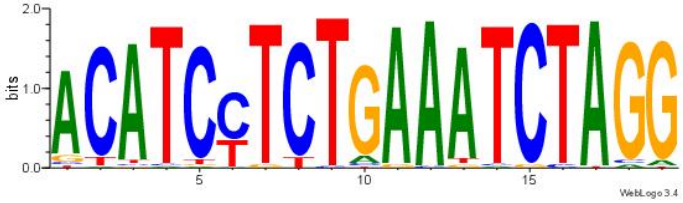

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.108959

Alignment:
CCCAAATCTCATSTTGAAT
-CAAAGTCTTAACTCATT-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

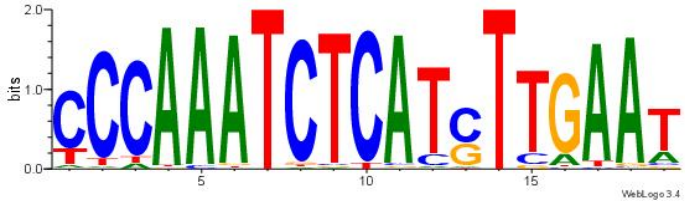

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

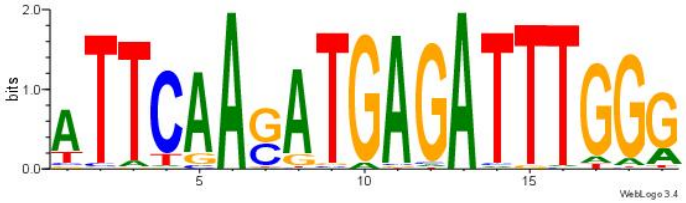

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.109609

Alignment:

```
ACTTTGGACTGTGGACTTTT
AATGAGTTAAGACTTTG---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

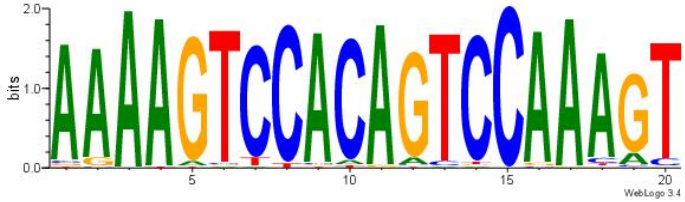

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

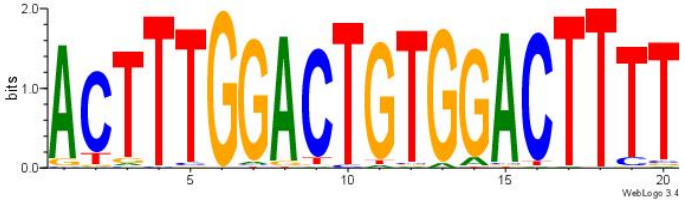

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.11098

Alignment:

```
GCCGTTTKTTAAGCCCGTY
--AATGAGTTAAGACTTTG
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

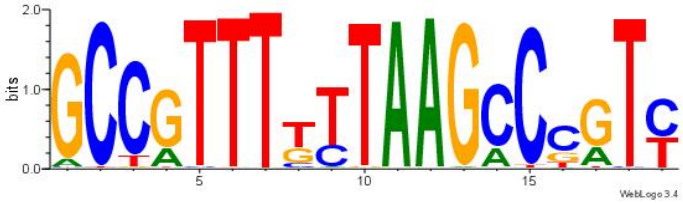

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

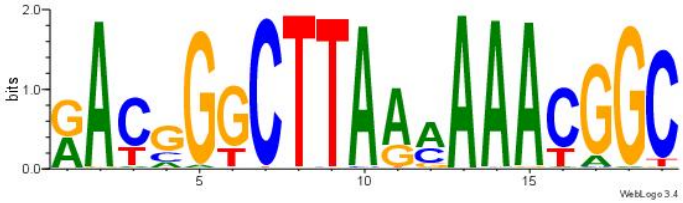

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.112001

Alignment:
ACCCAATWTGTAGTCTTTTA
-CAAAGTCTTAACTCATT--

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

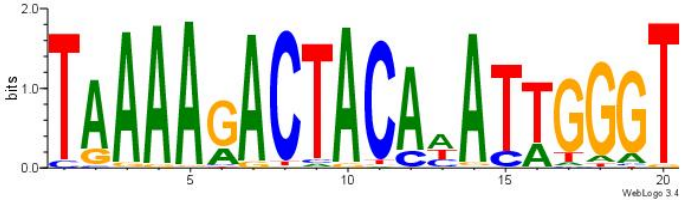

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

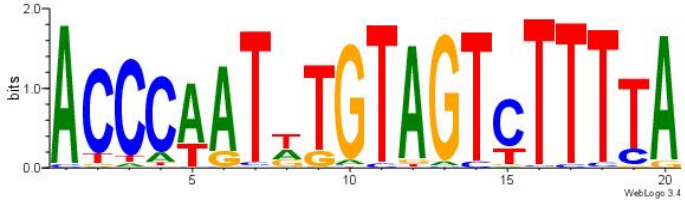

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.113071

Alignment:
GCTGCARTCTCGGCACTTT
--CAAAGTCTTAACTCATT

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

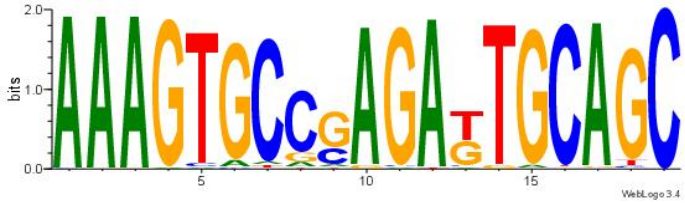

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

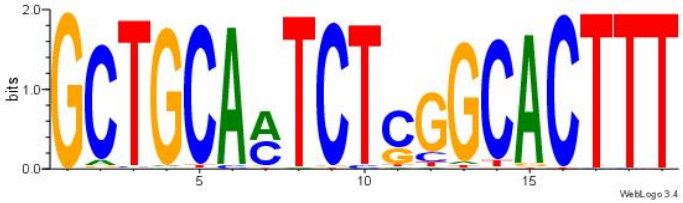

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.114283

Alignment:

```
GCAAAKGACATGATYTCATT
CAAAGTCTTAACTCATT---
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

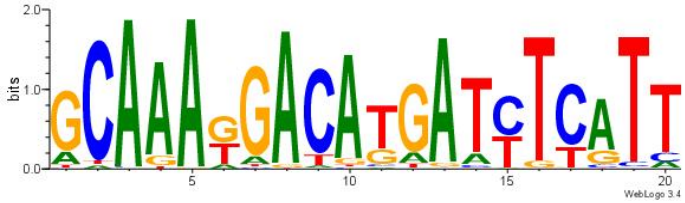

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

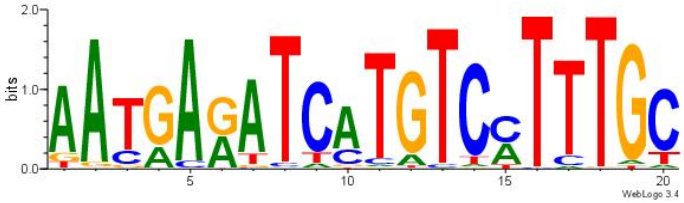

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.115064

Alignment:

```
TCAATGGGCTCCCAAATG
-CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

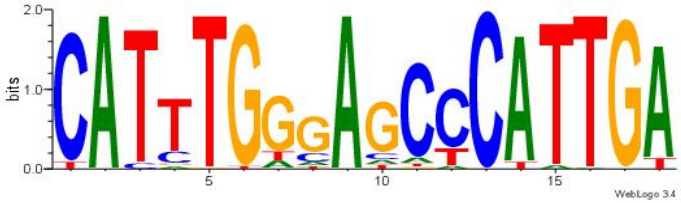

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

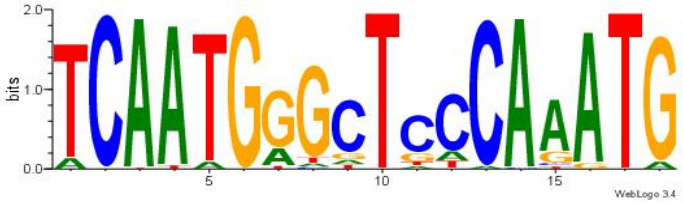

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.11846

Alignment:
CAGCTACTCKTATACCCTTG
--CAAAGTCTTAACTCATT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

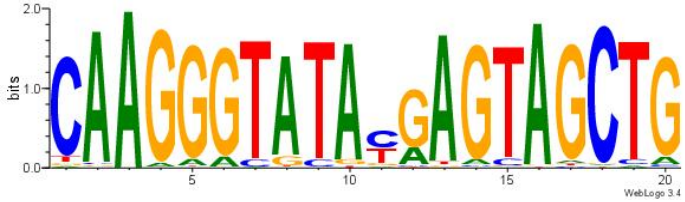

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

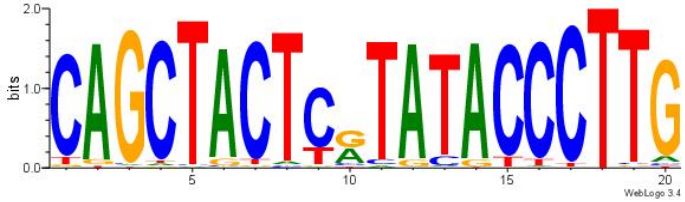

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.118575

Alignment:
GAAACTGCTTTGTGATGTGT
CAAAGTCTTAACTCATT---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

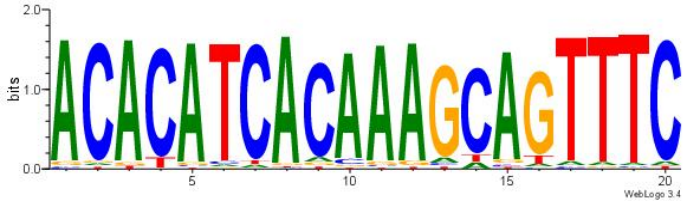

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

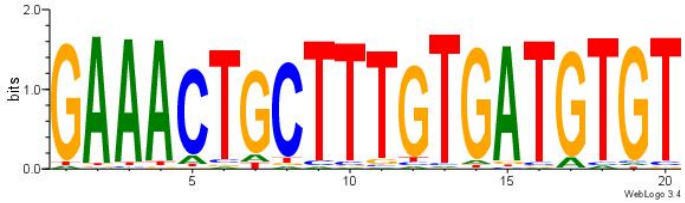

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.122565

Alignment:

```
AGTAGGTGCTCARTAAATRB
--CAAAGTCTTAACTCATT-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

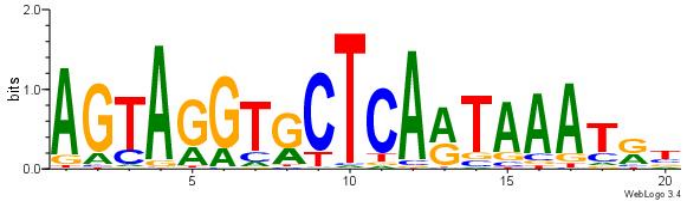

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

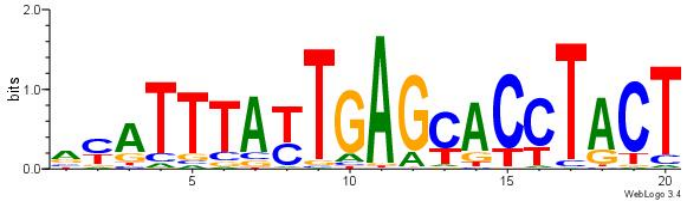

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.122663

Alignment:

```
AAAACCAGCAAGTTTTTAT
-AATGAGTTAAGACTTTG-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

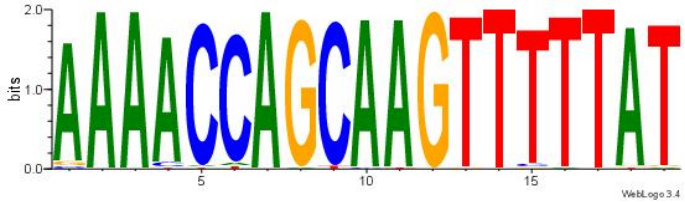

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

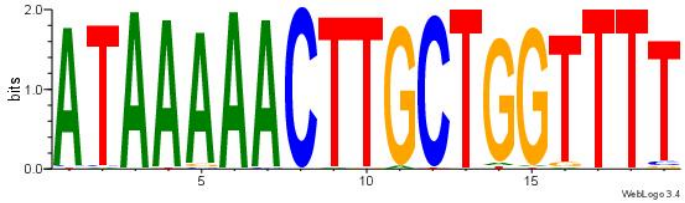

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.122787

Alignment:
AAAATGTGGTAYATAYAYAC
--AATGAGTTAAGACTTTG-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

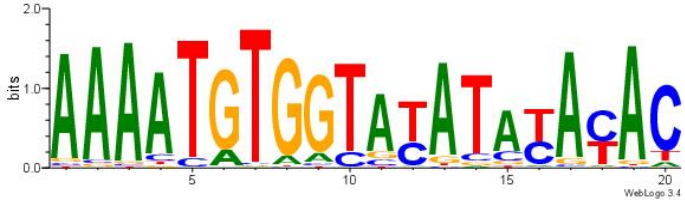

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

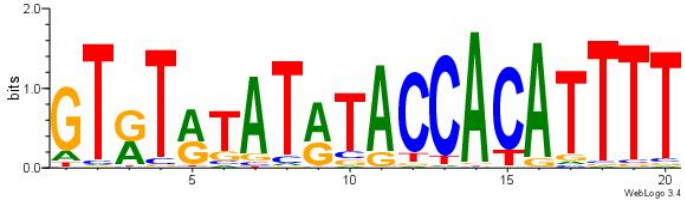

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.123252

Alignment:
AAGCAGGGCGAGGCATTGCC
-AATGAGTTAAGACTTTG--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

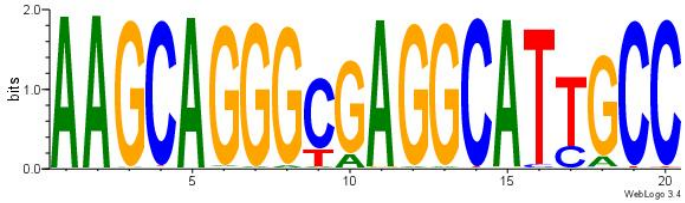

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

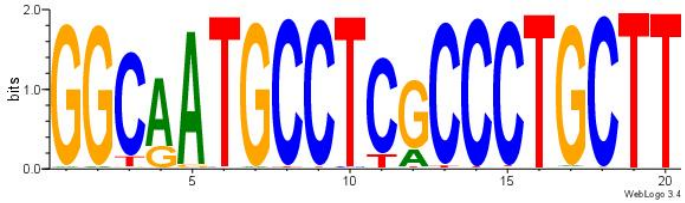

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.12333

Alignment:

```
GAAAAGCGCAGTATTMGGG
AATGAGTTAAGACTTTG--
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

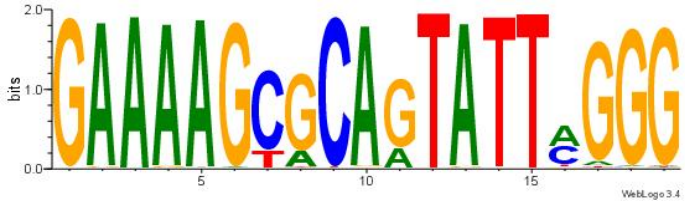

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

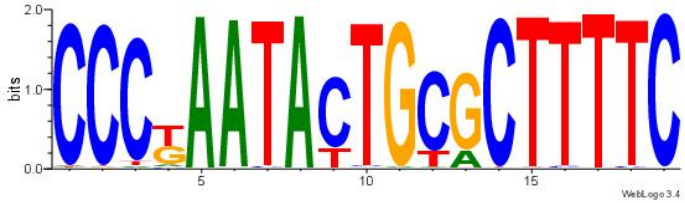

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.125448

Alignment:

```
CACCAGGAGATTATATCCCR
---AATGAGTTAAGACTTTG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

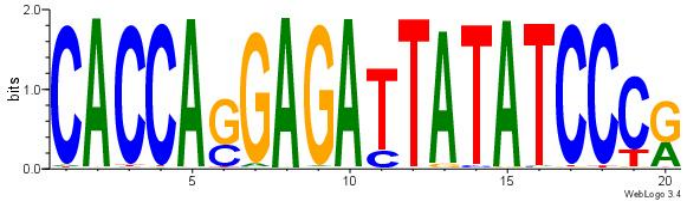

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

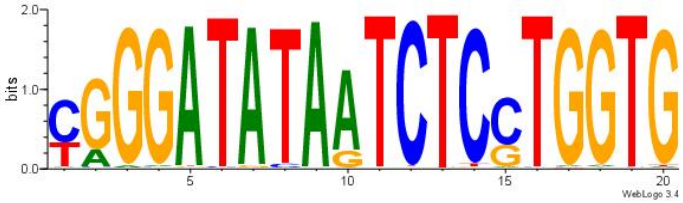

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.127454

Alignment:
AAATTACCCAGTCTCAGGTA
AATGAGTTAAGACTTTG---

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

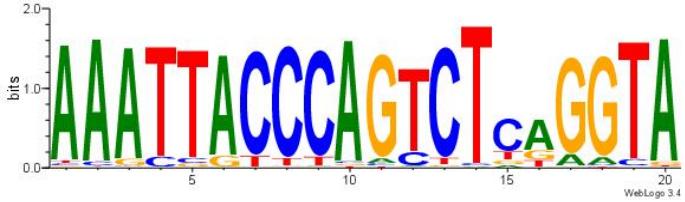

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

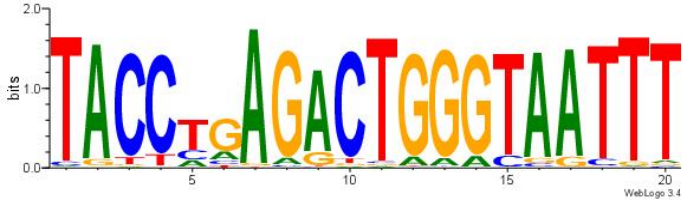

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.127957

Alignment:
AGTGTTTCCAAMCTGCT
AATGAGTTAAGACTTTG

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

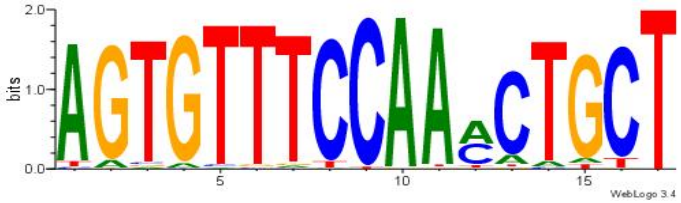

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

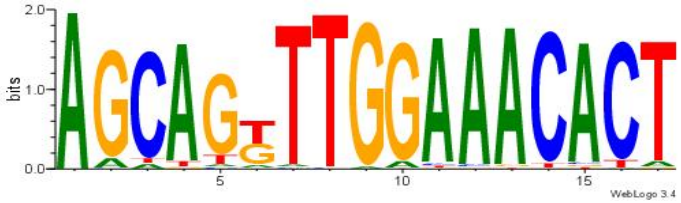

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.12823

Alignment:

```
CTAGACATAAAGGTTCTCCA
-AATGAGTTAAGACTTTG--
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

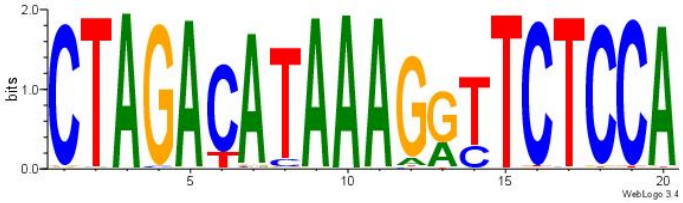

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

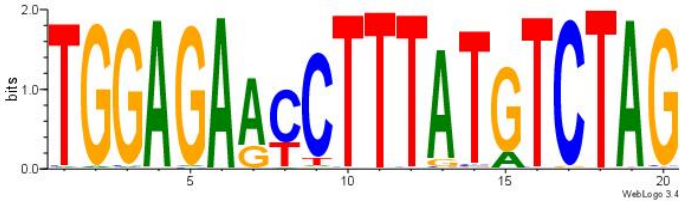

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.129077

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
---CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

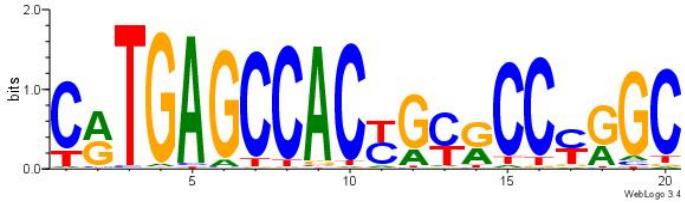

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

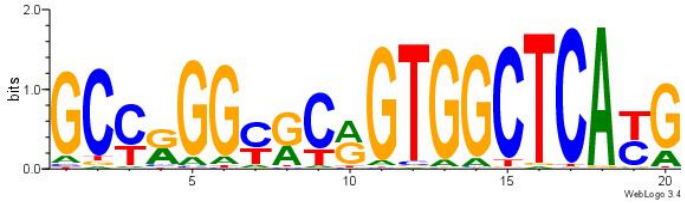

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.129537

Alignment:
GTGGCCCTCTTCTCACAGCT
--CAAAGTCTTAACTCATT-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

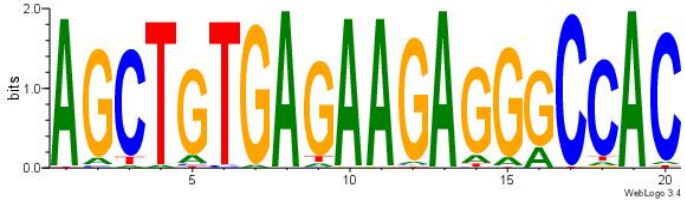

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

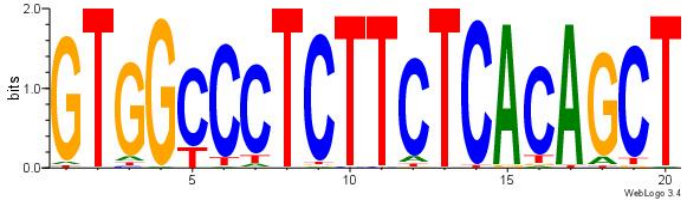

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.130634

Alignment:
ATGTGGAGGTGGAAGACAGT
---CAAAGTCTTAACTCATT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

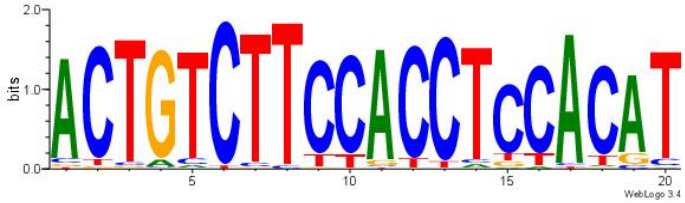

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

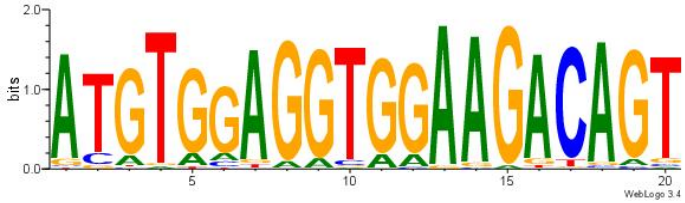

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.130878

Alignment:

```
AAATTAGGCCAATTAATAAC
-AATGAGTTAAGACTTTG--
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

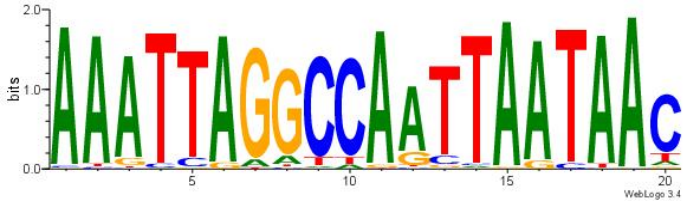

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.130955

Alignment:

```
AATCAACCCTGGYRATCAAT
CAAAGTCTTAACTCATT---
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

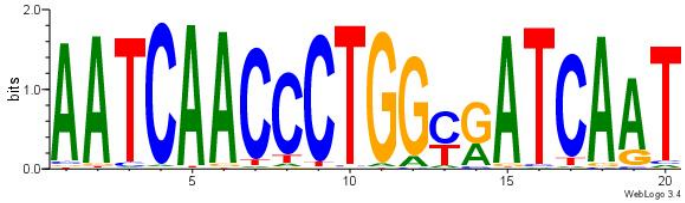

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

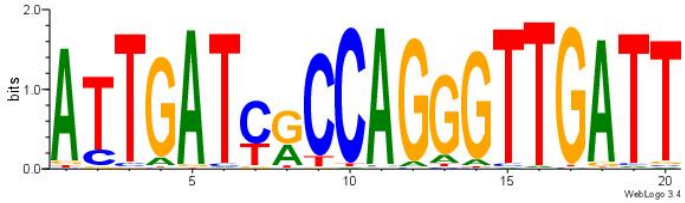

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.131188

Alignment:
TAATTTTATGTGTCAACTTG
---AATGAGTTAAGACTTTG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

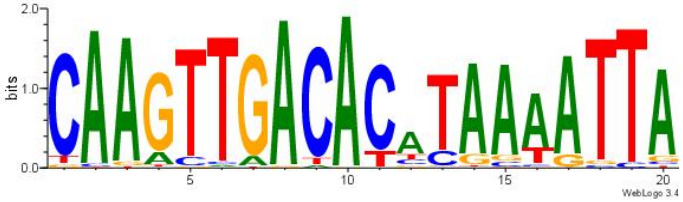

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

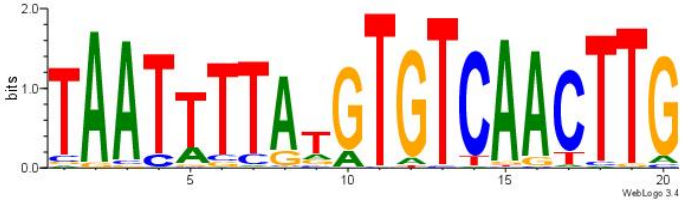

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.131607

Alignment:
CCCGAAGCTGCRYRCTCGGT
CAAAGTCTTAACTCATT---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

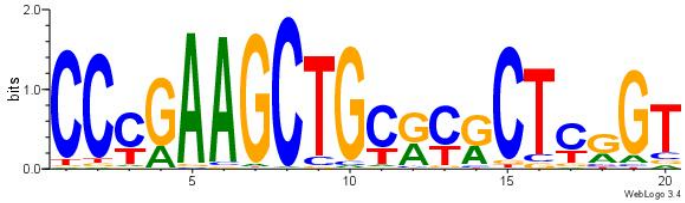

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

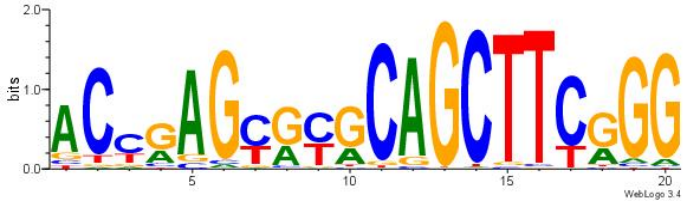

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.132067

Alignment:

```
GCCAATTTCTCCCATTTGGA
-CAAAGTCTTAACTCATT--
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

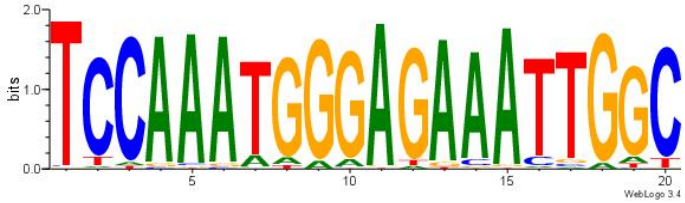

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

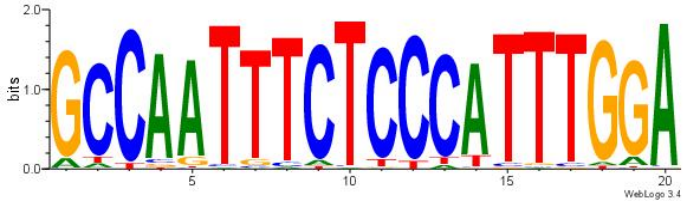

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.132865

Alignment:

```
TAMGACCTCAGGTCCTCAG
CAAAGTCTTAACTCATT--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

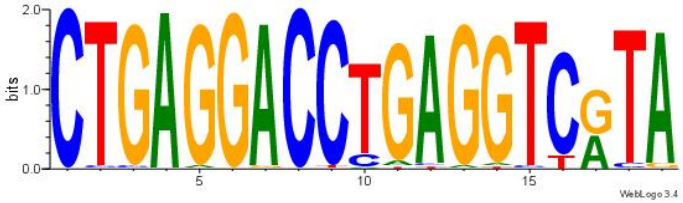

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

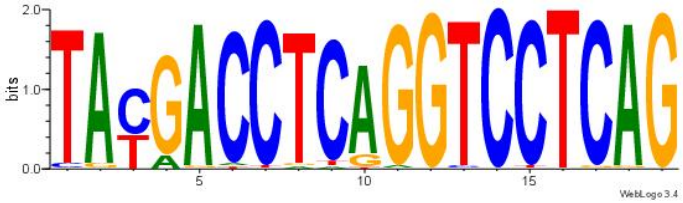

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.133463

Alignment:
AAGGAACAAACTCCRGACAC
AATGAGTTAAGACTTTG---

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

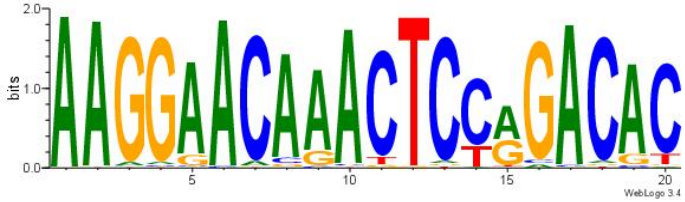

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

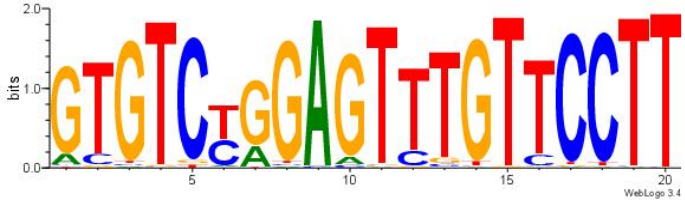

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.133988

Alignment:
AAAATCACAAGCATTCCTAT
AATGAGTTAAGACTTTG---

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

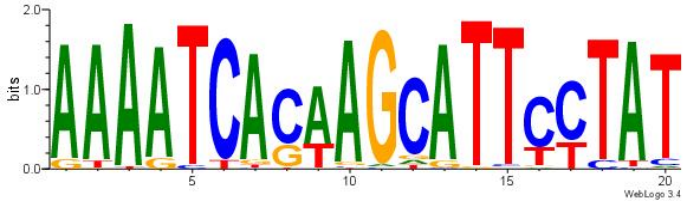

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

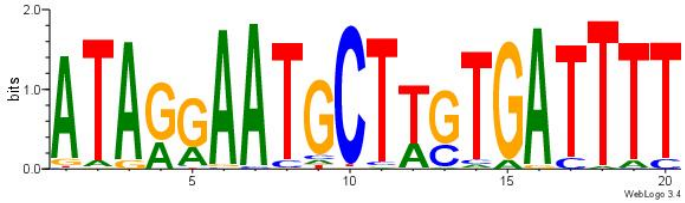

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.134261

Alignment:

```
ATTGGTGTATTTACAATCCC
---AATGAGTTAAGACTTTG
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

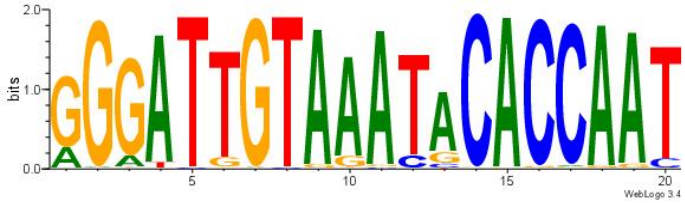

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.134594

Alignment:

```
CCCMKGGCACCCTCAGTCCT
CAAAGTCTTAACTCATT---
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

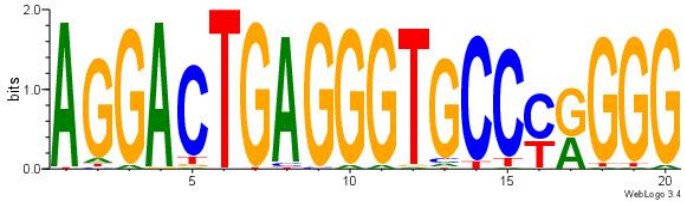

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

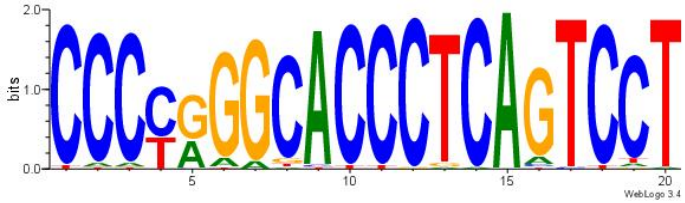

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.134719

Alignment:
CTCATTTAATCCTCACAAC
--CAAAGTCTTAACTCATT

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

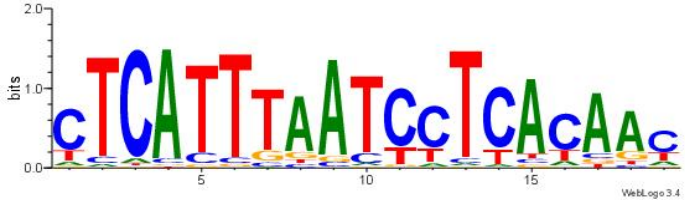

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

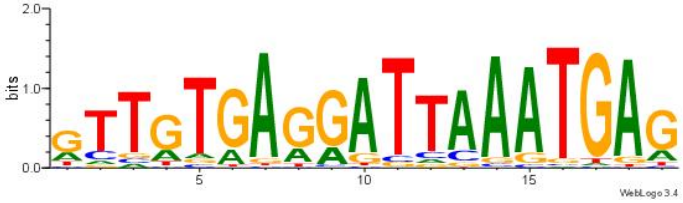

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.135021

Alignment:
ACAAGGCAAGTCCCTTCY
CAAAGTCTTAACTCATT-

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

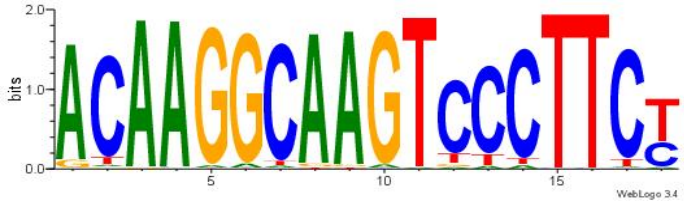

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

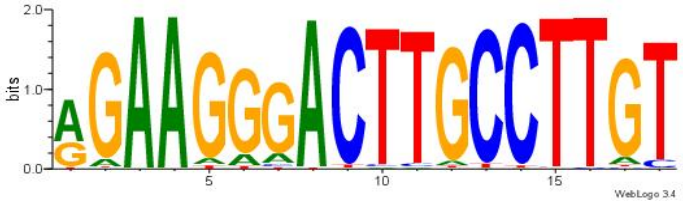

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.13521

Alignment:

```
TCCTATGAGAATCTAATG
-CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

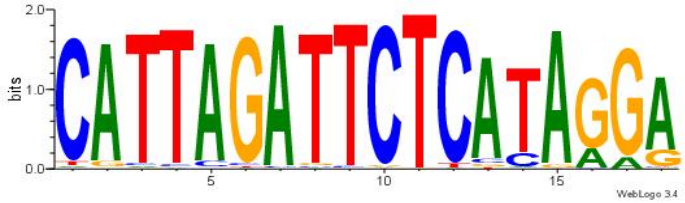

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

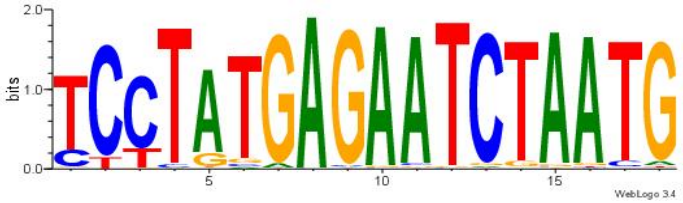

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.135294

Alignment:

```
CTTGCGCTTCCCRRGTGA
-CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

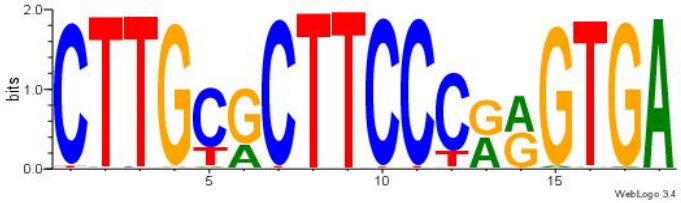

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

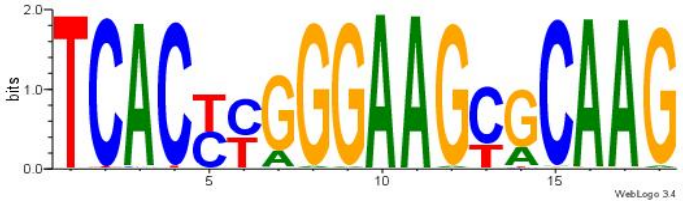

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.135673

Alignment:
CTCCAGKTMCATCCATGTTG
--CAAAGTCTTAACTCATT-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

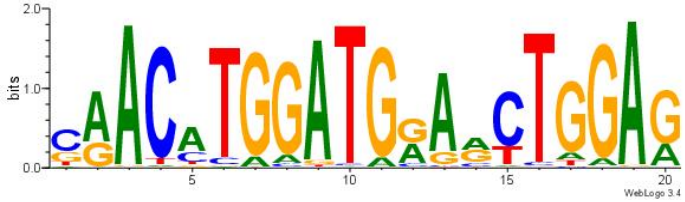

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

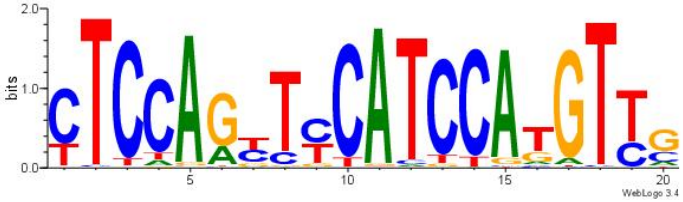

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.136051

Alignment:
AATTAAAAGACACAGACTG
AATGAGTTAAGACTTTG--

Original motif Consensus sequence: AATTAAAAGACACAGACTG

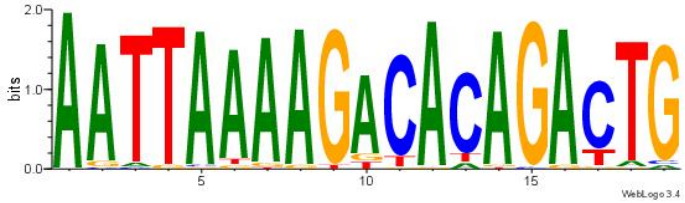

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

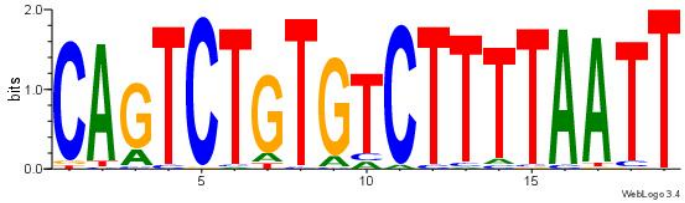

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.136324

Alignment:

```
ACAGGCTGTCCCAGGATTC
-CAAAGTCTTAACTCATT-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

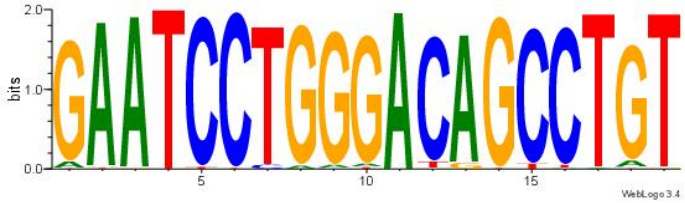

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

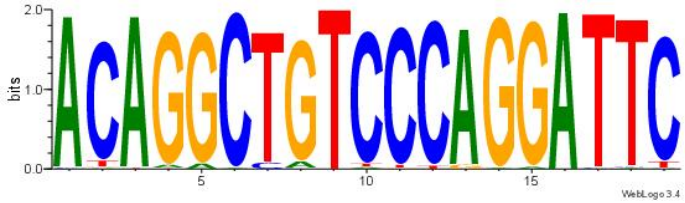

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.136373

Alignment:

```
GCAWSTGCAAAGGCCCT
CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

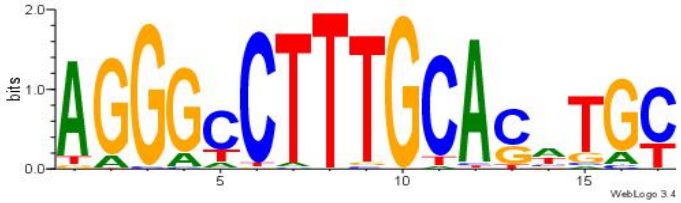

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

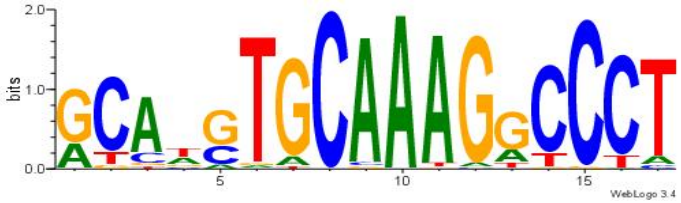

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.136481

Alignment:
AGCTCMKCCTCCTGTCAGAT
--CAAAGTCTTAACTCATT-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

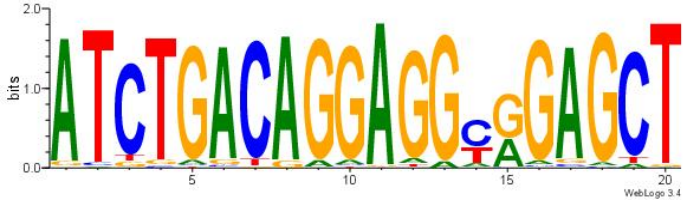

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

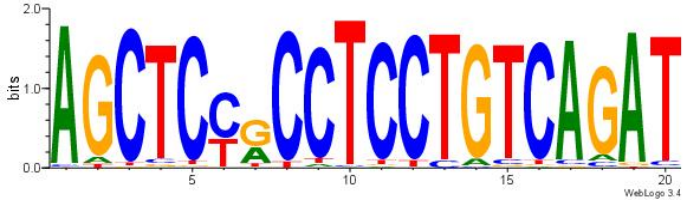

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.136887

Alignment:
GGCACTGCTGGGGGACCCAG
AATGAGTTAAGACTTTG---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

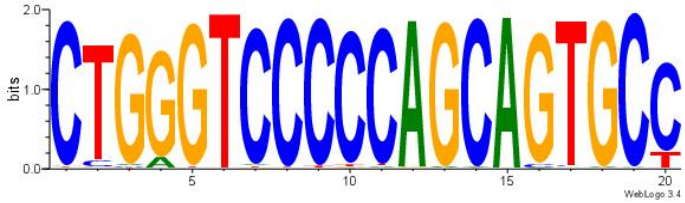

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

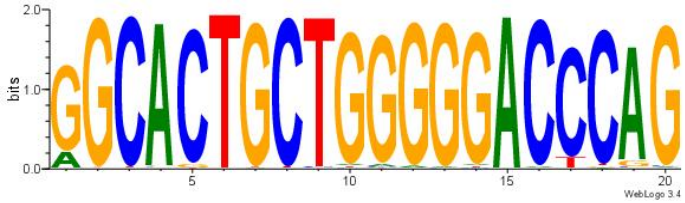

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.137658

Alignment:

```
CTTCGCTGACTCTCTTT
CAAAGTCTTAACTCATT
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

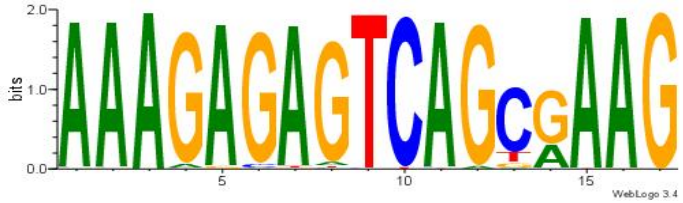

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

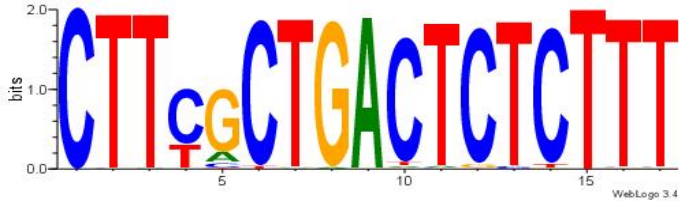

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.138402

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
AATGAGTTAAGACTTTG---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

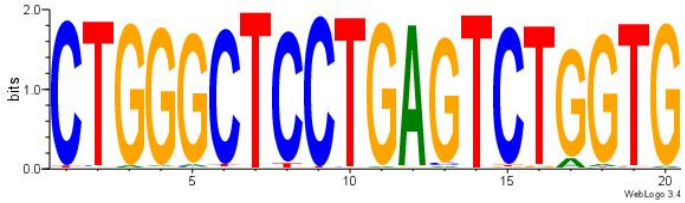

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

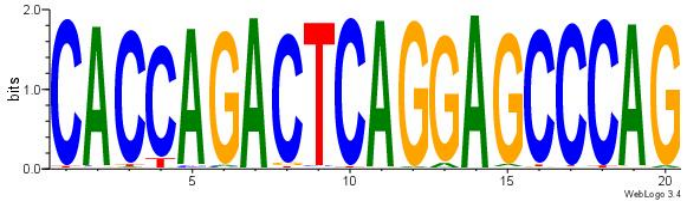

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.138731

Alignment:
GGAGGTGTGGAGGGAGAGGC
--AATGAGTTAAGACTTTG-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

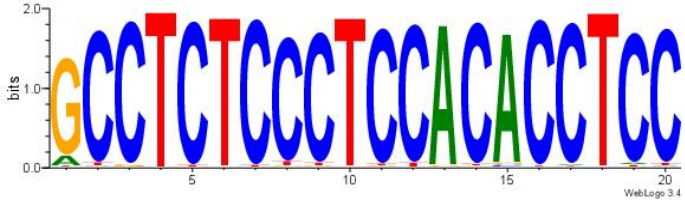

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

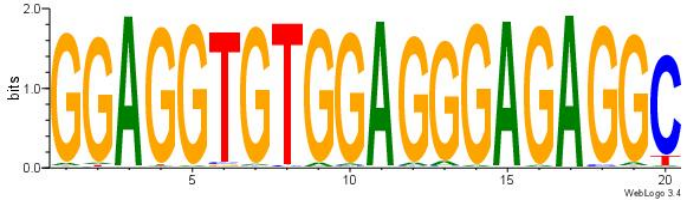

Dataset #: 1 Motif ID: 225 Motif name: Motif 225

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

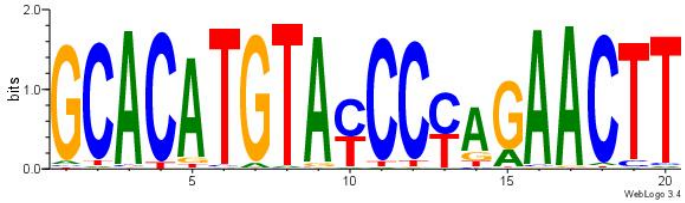

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

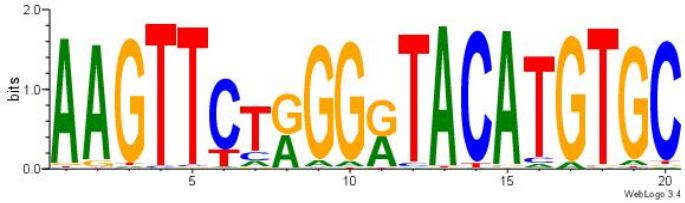

Best Matches for Motif ID 225 (Highest to Lowest)

Dataset #: 1
Motif ID: 83
Motif name: Motif 83

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.113312

Alignment:

AAAATGTGGTAYATAYAYAC

AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

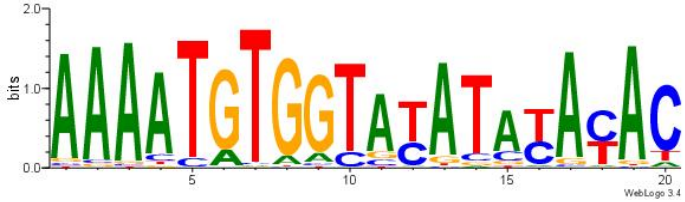

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

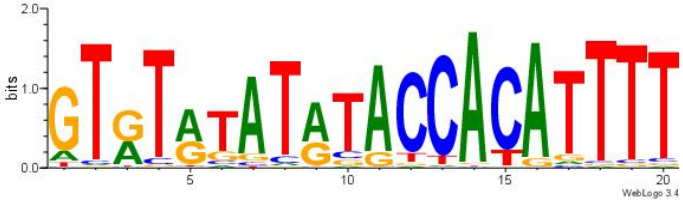

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118212

Alignment:
GAATACCTCCTGAAGGACCT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

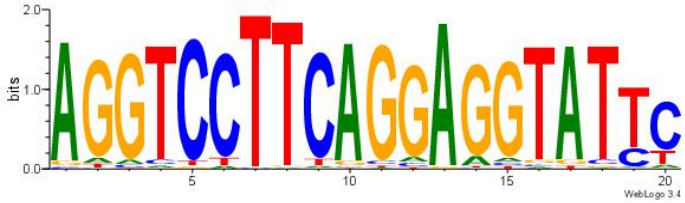

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

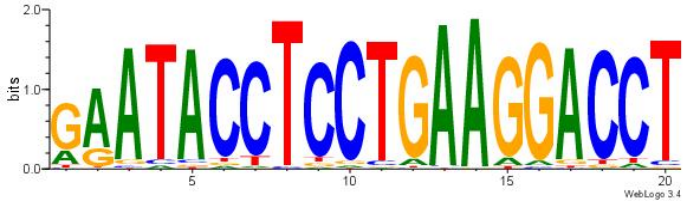

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120502

Alignment:
AAGCTGAGGGAGCCGGCTCC
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

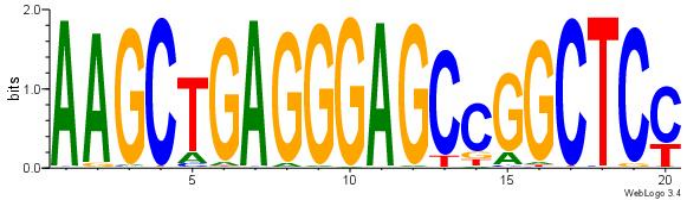

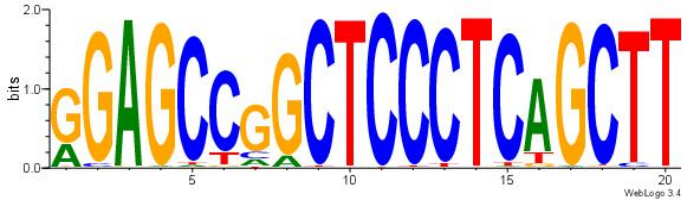

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.123085

Alignment:
ACCKTCGCGGTGAGTGTTAC
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

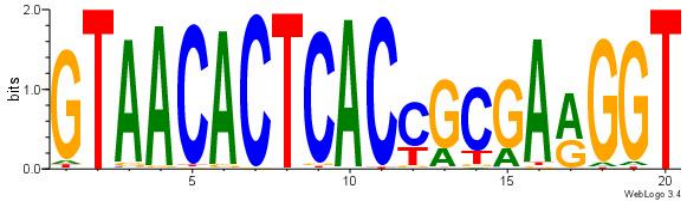

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

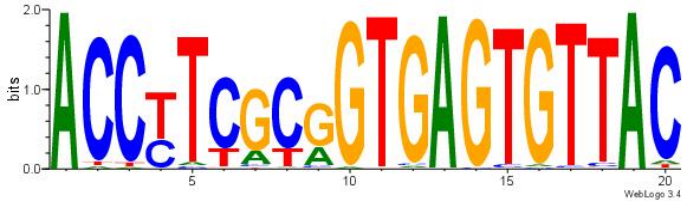

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125642

Alignment:

```
AAGCAGGGCGAGGCATTGCC
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

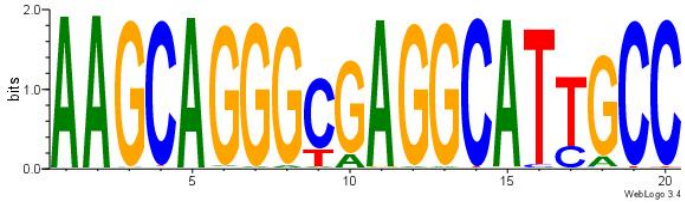

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

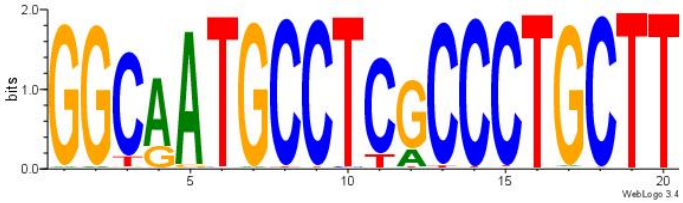

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.125707

Alignment:
ARCTCCTGKSCTCAAGKGAT
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

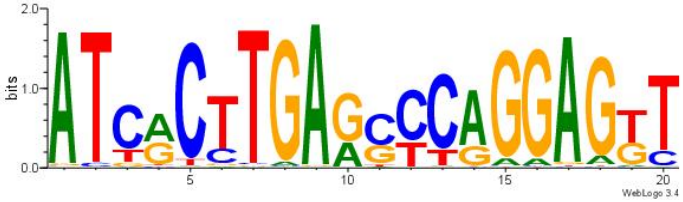

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

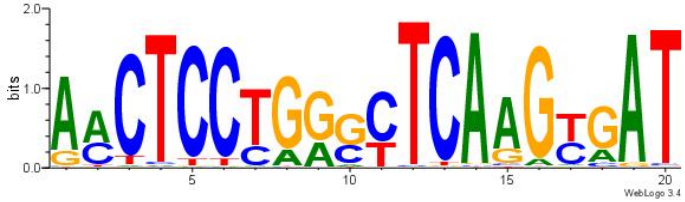

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.126414

Alignment:
CCCMKGGCACCCTCAGTCCT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

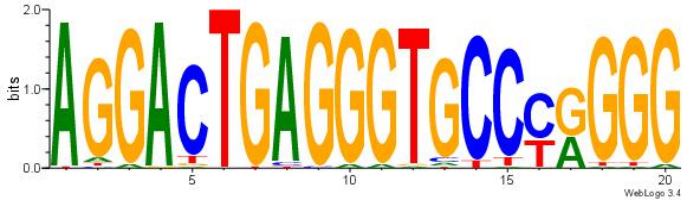

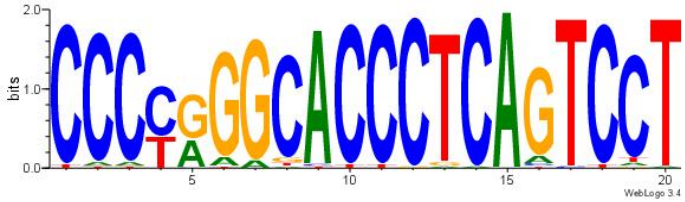

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12657

Alignment:

```
AATGAKATCATGTCYTTTGC
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

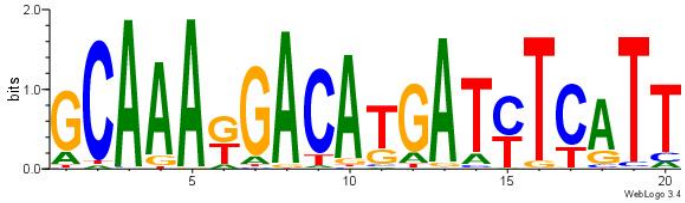

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

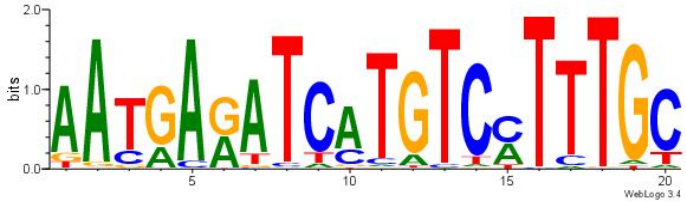

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128094

Alignment:

```
GCCAATTTCTCCCATTTGGA
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

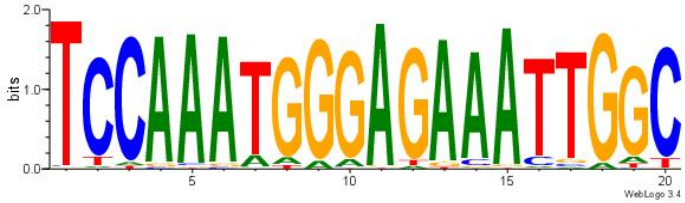

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

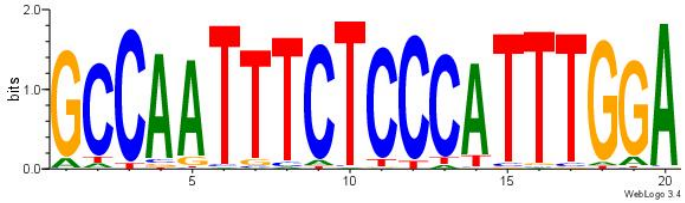

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.128974

Alignment:
AAGTCCAAGATCAAGGTGYY
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

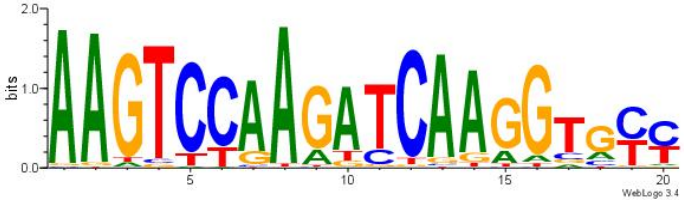

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

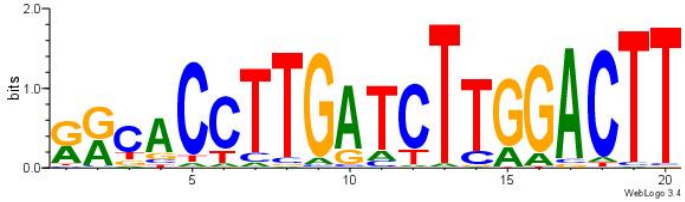

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.129247

Alignment:
GGGTCAGGGAGTTCCCTTTC
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

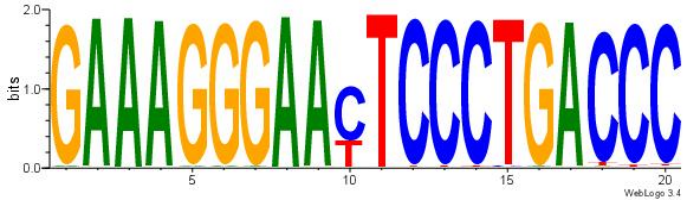

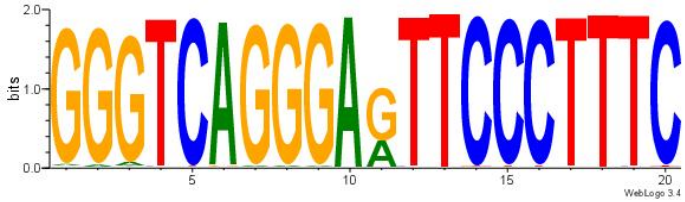

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129896

Alignment:

```
GCTCCACCCAGTTCGAGCTT
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

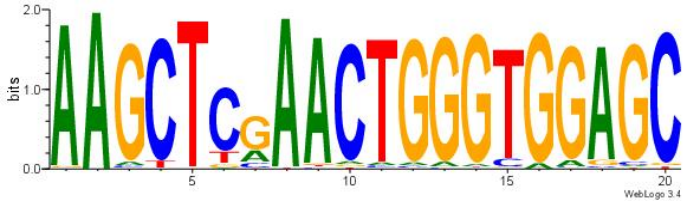

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

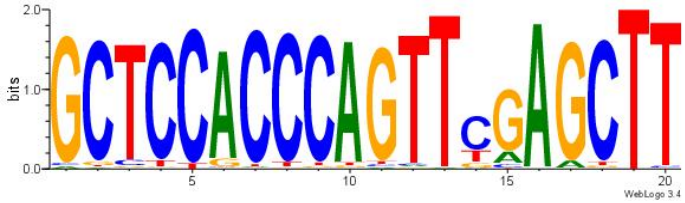

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130644

Alignment:

```
CAAGTTGACACATAAAATTA
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

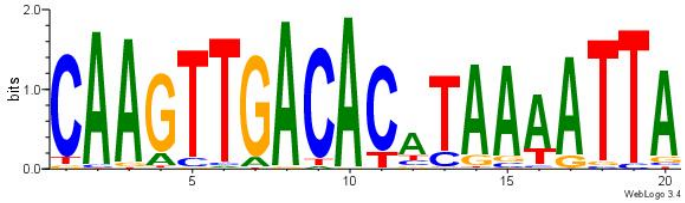

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

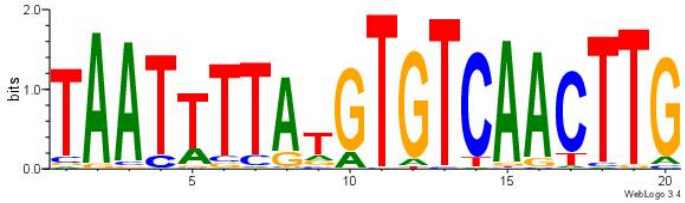

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132144

Alignment:
TAGATAATAGCTCCAGCTTT
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

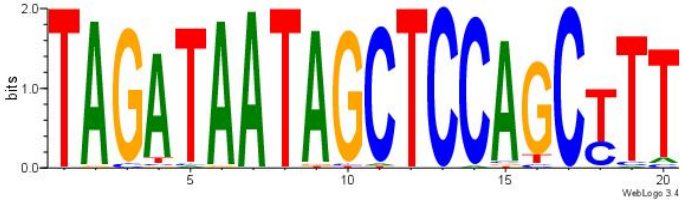

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

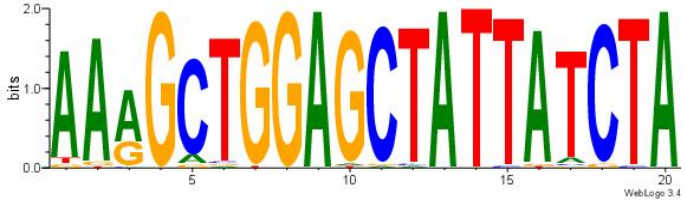

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132369

Alignment:
AGAAATCGAGCRCAGCGCCG
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

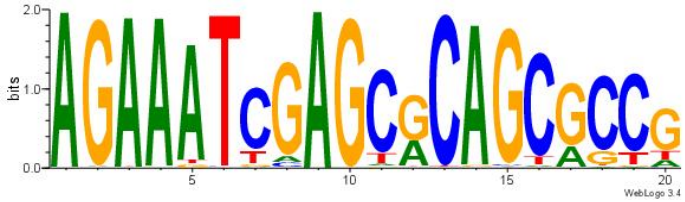

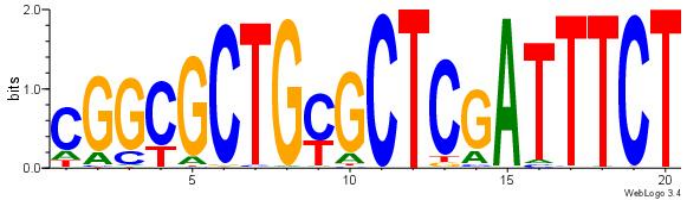

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136556

Alignment:
CTCCAGKTMCATCCATGTTG
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

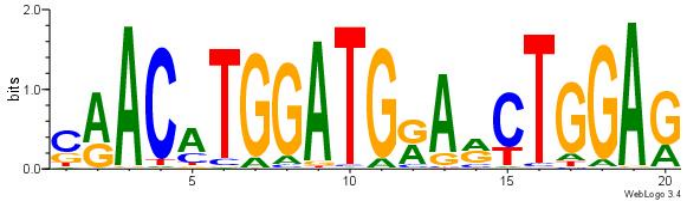

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

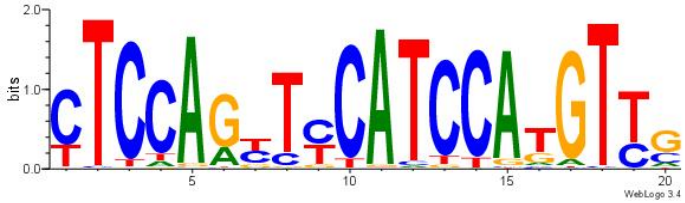

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139144

Alignment:
ATGTGGAGGTGGAAGACAGT
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

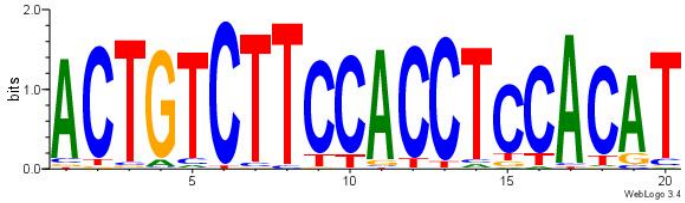

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

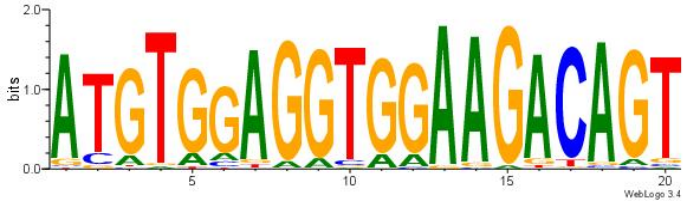

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140702

Alignment:
GCCTCCTTGAGCTGTGGTGG
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

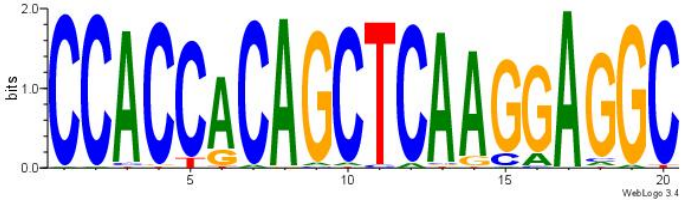

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

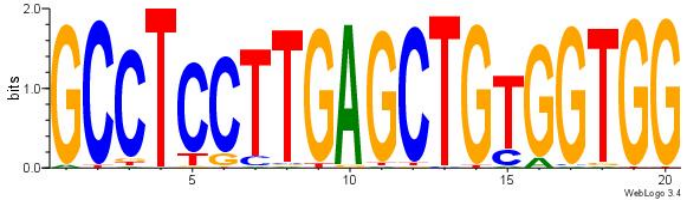

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144971

Alignment:
AAATTACCCAGTCTCAGGTA
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

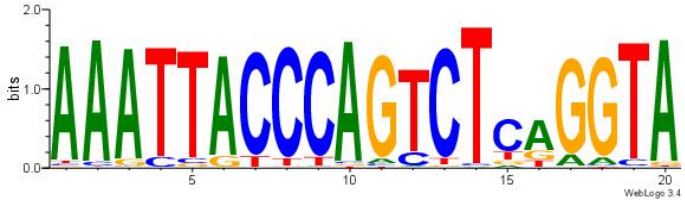

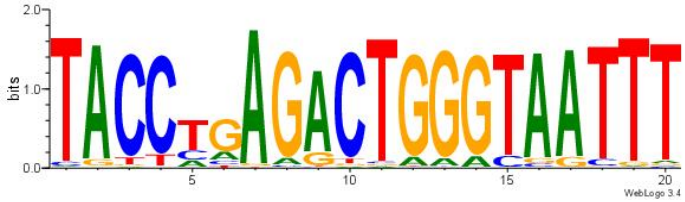

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145056

Alignment:
AWTKKTGGTTKCCAGKGGCT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

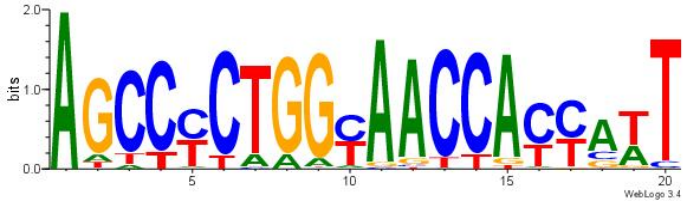

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

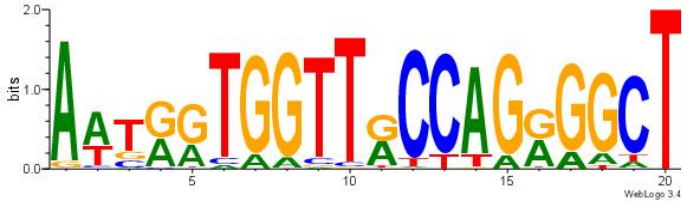

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14595

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

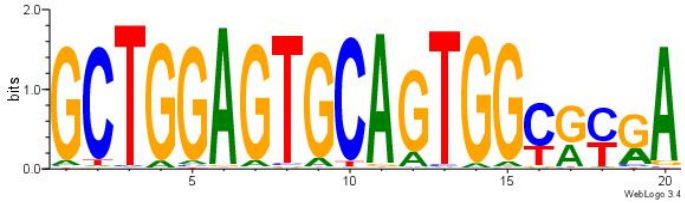

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

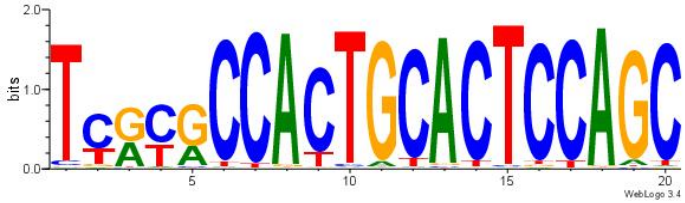

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.146108

Alignment:
AAAAGTCCACAGTCCAAAGT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

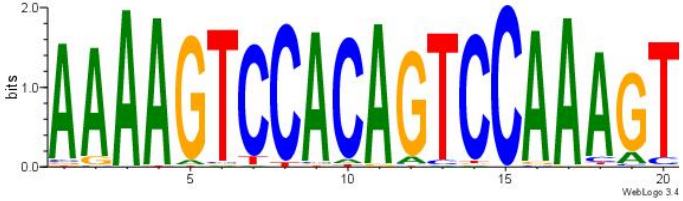

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

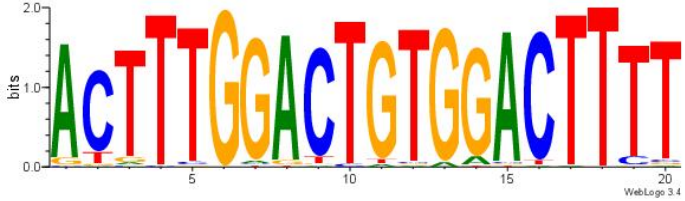

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146804

Alignment:
GTGTCKGGAGTTTGTTCCTT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

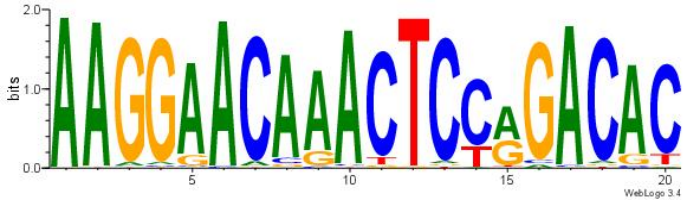

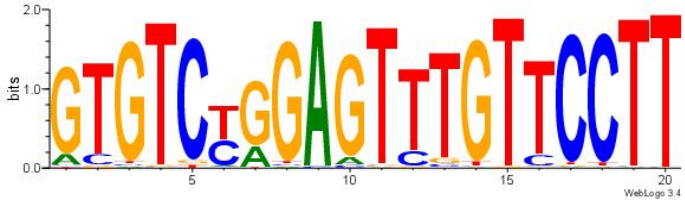

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146863

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

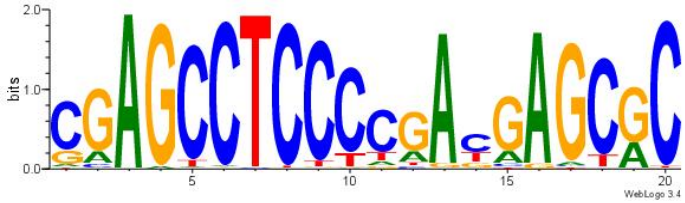

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

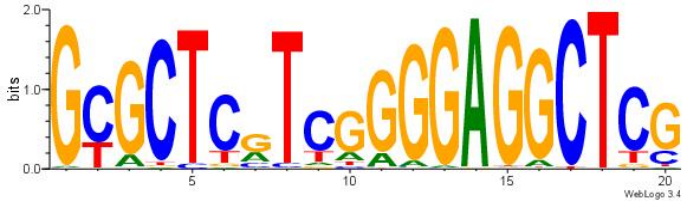

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147187

Alignment:

AAAATCACAAGCATTCCTAT

AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

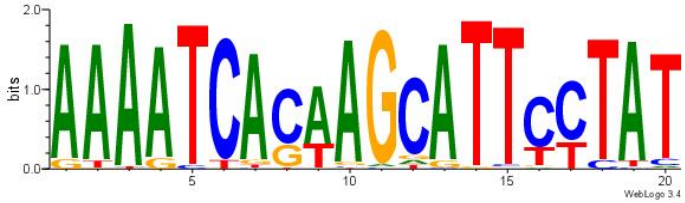

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

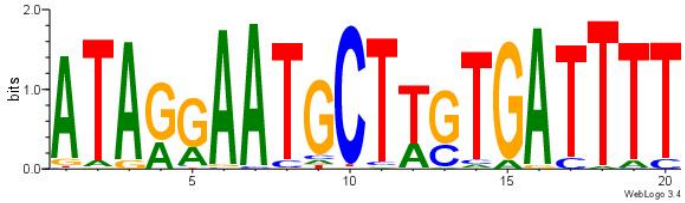

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147302

Alignment:
GTTATTAATTGGCCTAATTT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

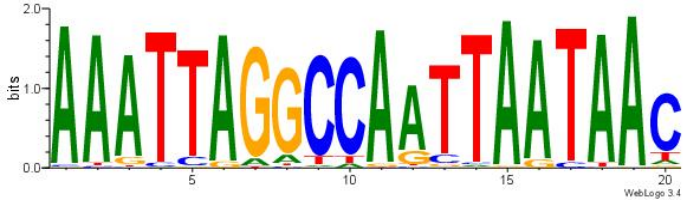

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148157

Alignment:
ACCCAATWTGTAGTCTTTTA
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

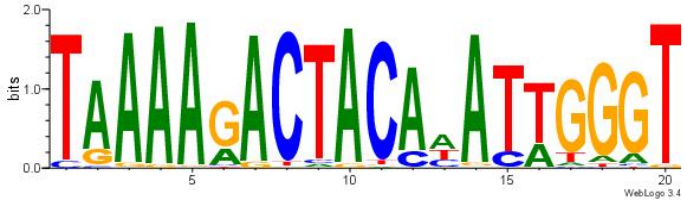

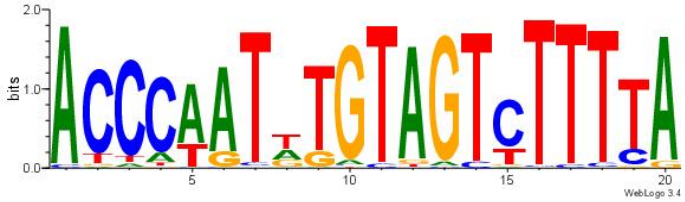

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148285

Alignment:

```
CCCATGCAAGTCYRAAATCC
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

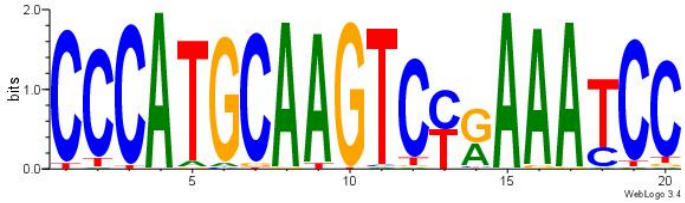

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

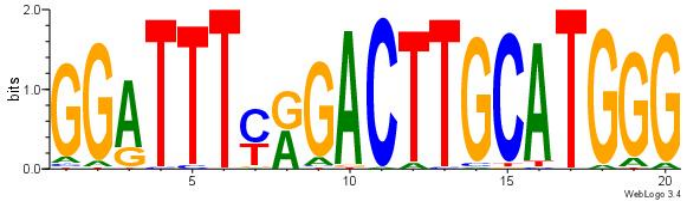

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148571

Alignment:

```
GAAACTGCTTTGTGATGTGT
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

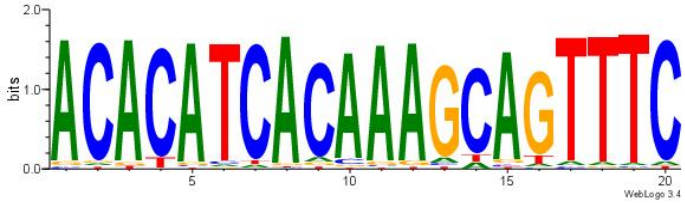

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

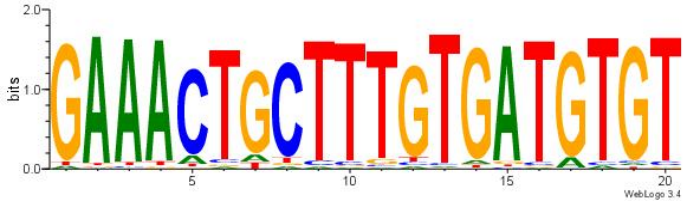

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.14939

Alignment:
AGGTTTGTTACATAGGTAWA
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

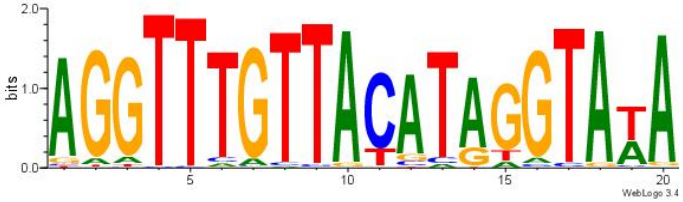

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

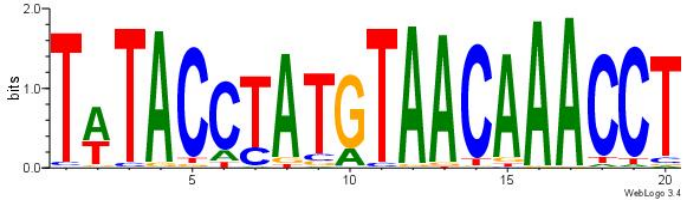

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149487

Alignment:
GGGATTGTAAATACACCAAT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

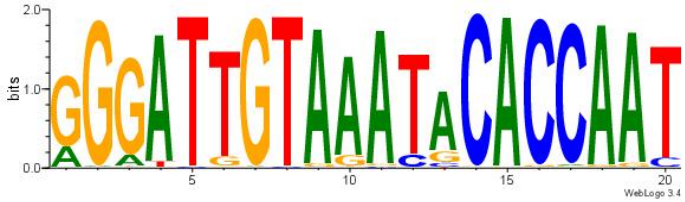

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149943

Alignment:

```
GCTGTGTGACCTTGGGCAAG
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

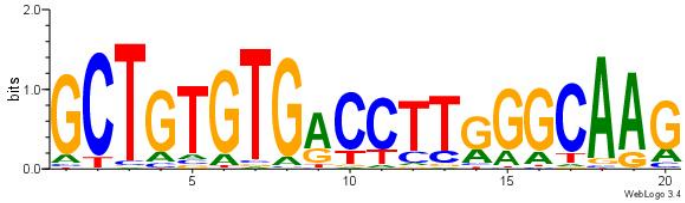

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

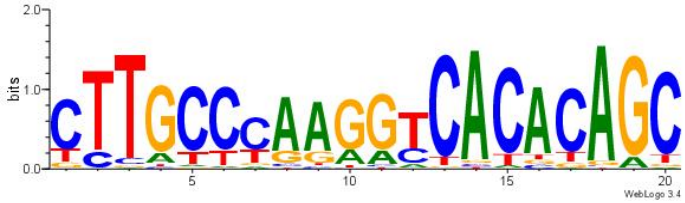

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150128

Alignment:
AGCTCCCAGCGTGAGCGACG
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

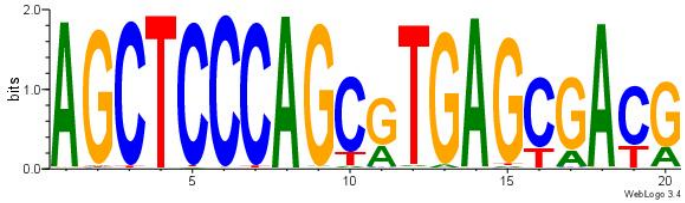

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

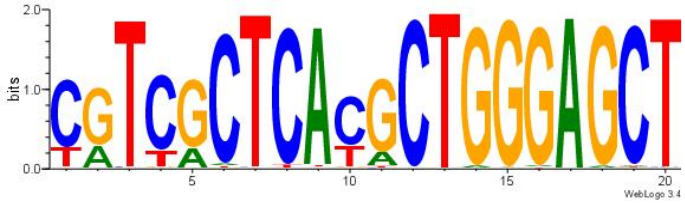

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150611

Alignment:
CACCAGGAGATTATATCCCR
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

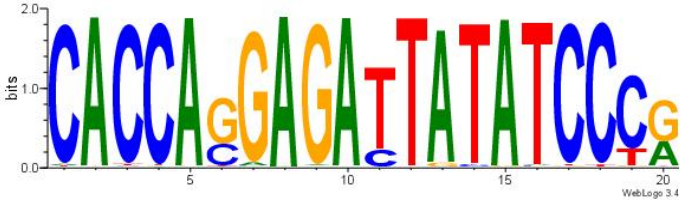

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

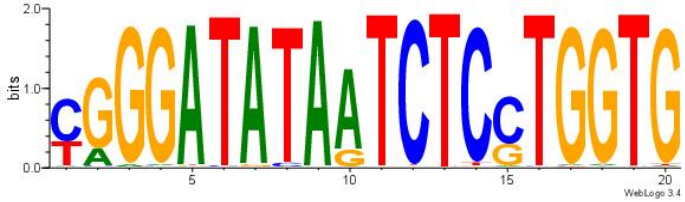

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150949

Alignment:
AGGCCCCAGTGTSTGTTGTT
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

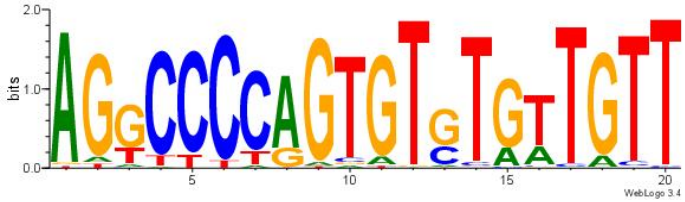

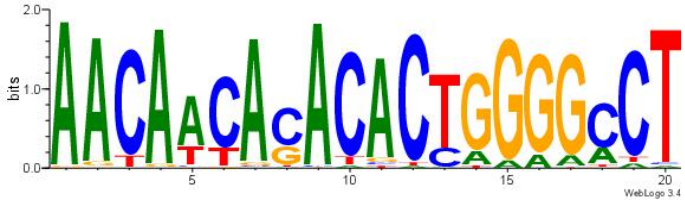

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152065

Alignment:

```
ATGGAATAYTATTCAGCCAT
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

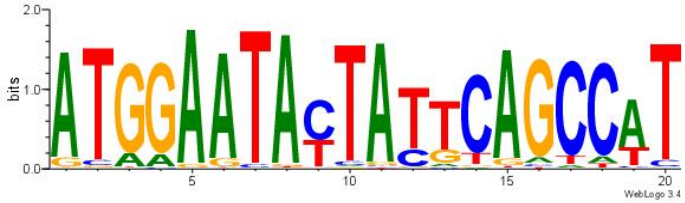

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

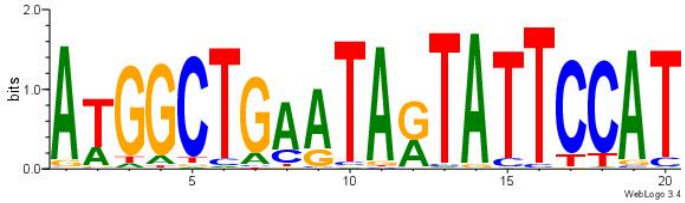

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153239

Alignment:

```
CCTGCCATTGCYSAGGCTTG
GCACATGTAYCCYAGAACTT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

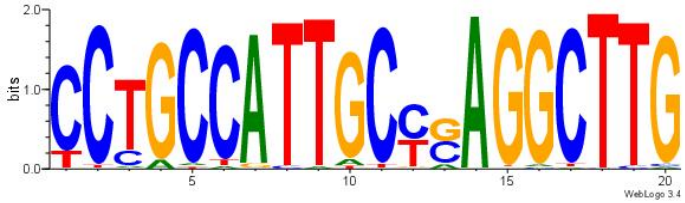

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

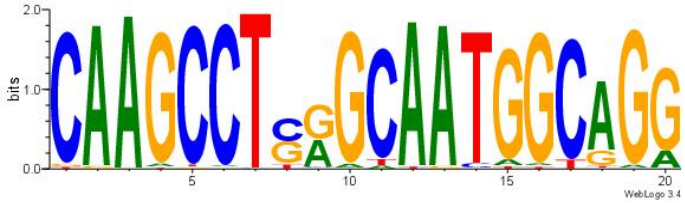

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153714

Alignment:
ATGATCCAGCAATYCCACTH
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

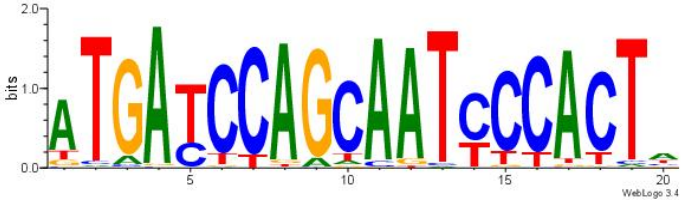

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

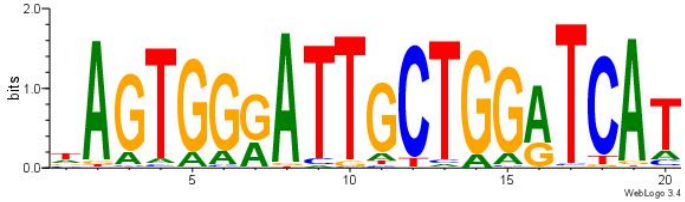

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154036

Alignment:
GAGAGAGAGAGAGAGAGAGA
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

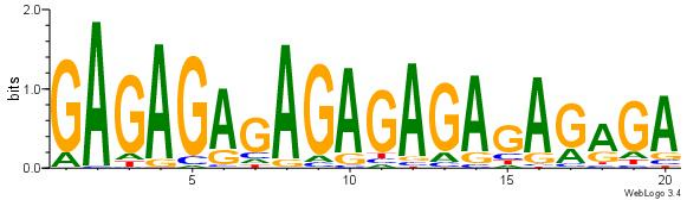

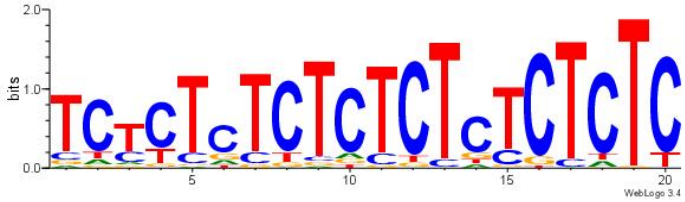

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154184

Alignment:
CATTCTGGGGTCTGGAGGAY
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

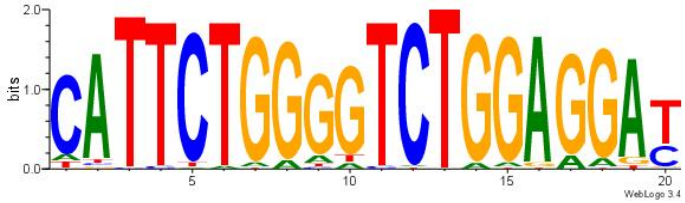

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

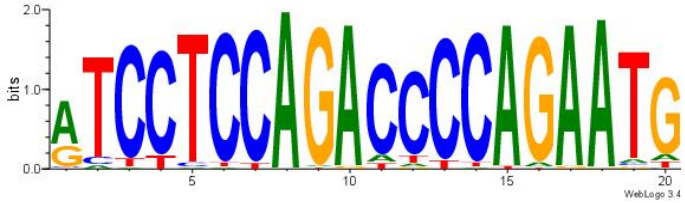

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154673

Alignment:

```
CAGGTGGTKTTTGGTTACAT
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

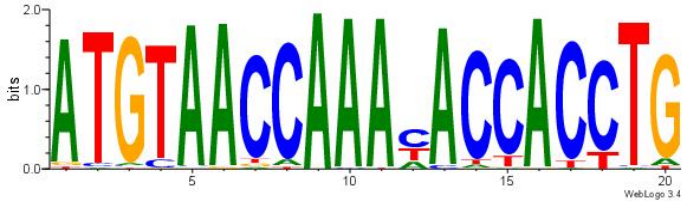

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

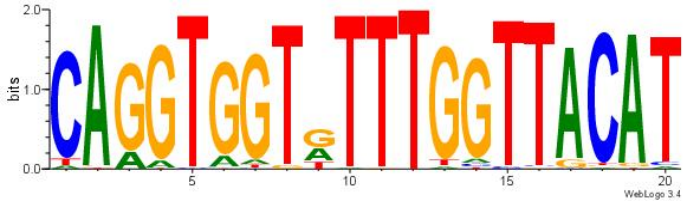

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154676

Alignment:
CMTAGYACAGTGCCTGGCAC
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

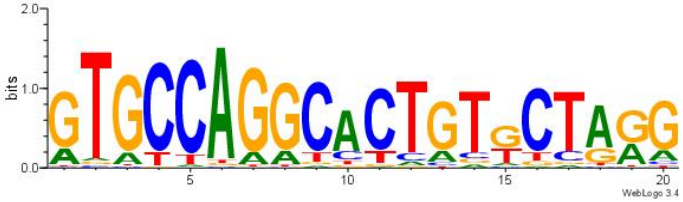

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

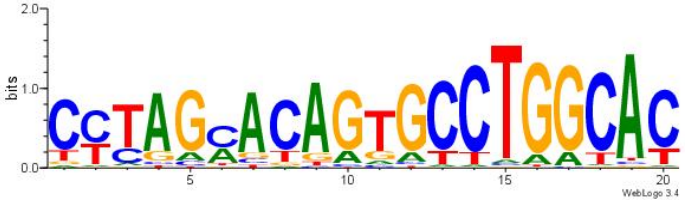

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155109

Alignment:
TCCCTCCCGGACGGGGYGGC
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

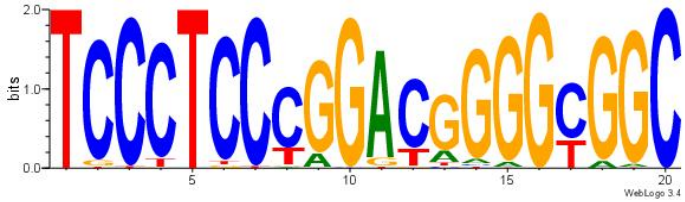

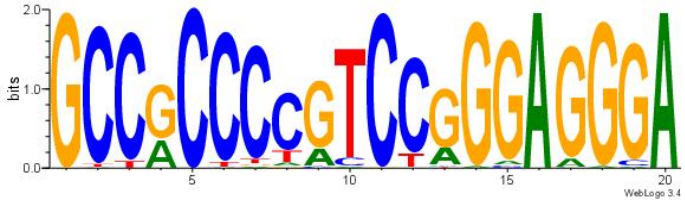

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155111

Alignment:

```
AGTAGGTGCTCARTAAATRB
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

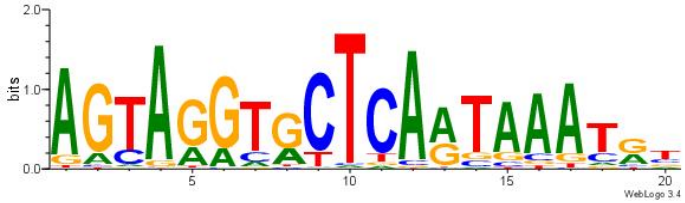

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

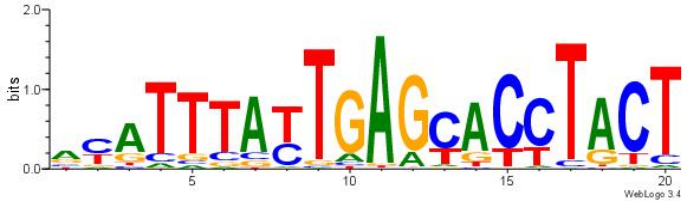

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155185

Alignment:

ACCGAGMKMGCAGCTTCGGG
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

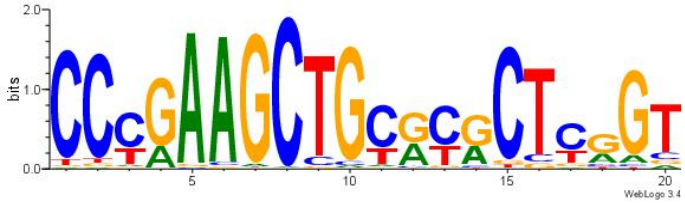

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

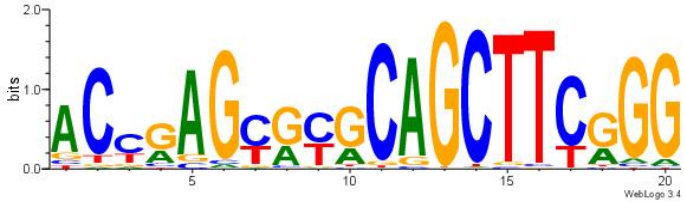

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155789

Alignment:
GTGGCCCTCTTCTCACAGCT
GCACATGTAYCCYAGAACTT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

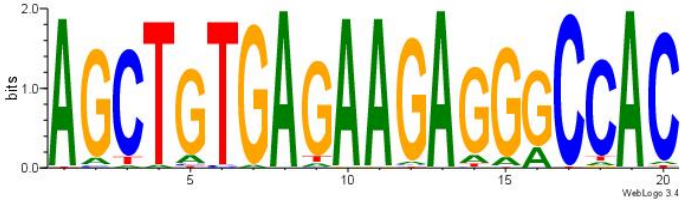

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

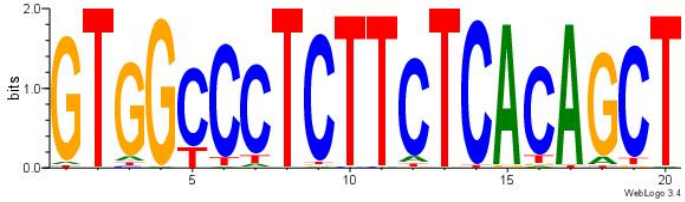

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155948

Alignment:
GACTGGCAGGCAGCTCCACC
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

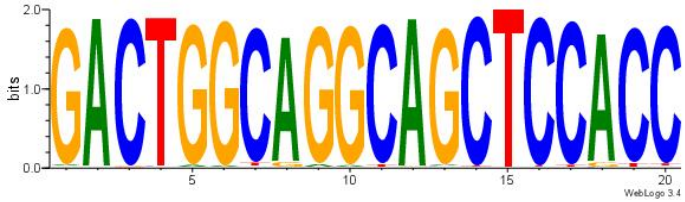

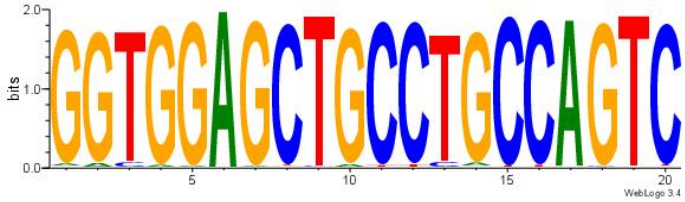

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156055

Alignment:

```
GCCTCTCCCTCCACACCTCC
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

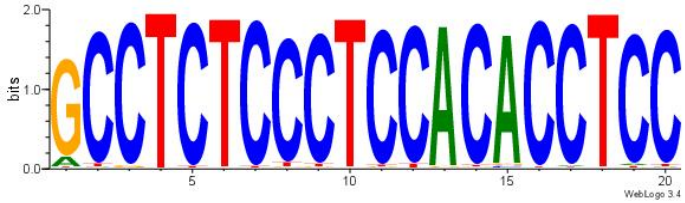

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

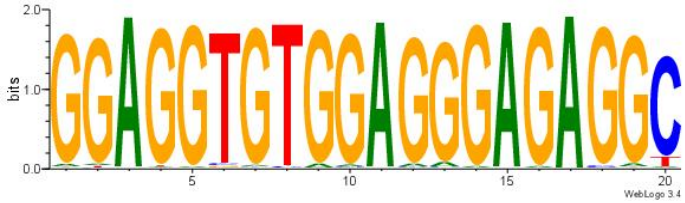

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156966

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AAGTTCTKGGKTACATGTGC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

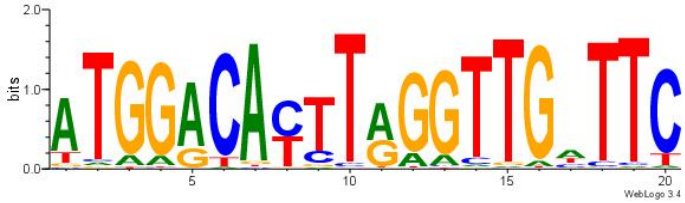

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

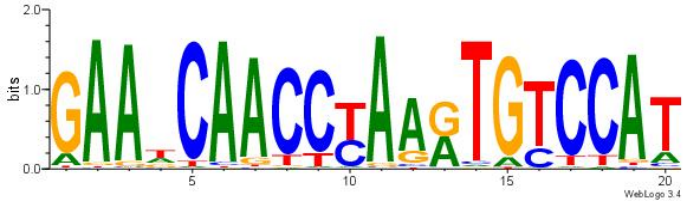

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159416

Alignment:
CAGCTACTCKTATACCCTTG
AAGTTCTKGGKTACATGTGC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

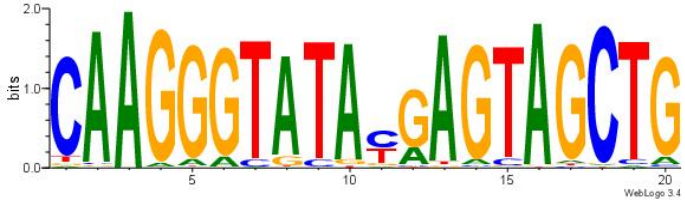

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

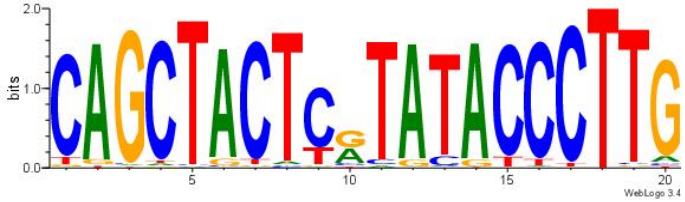

Dataset #: 1 Motif ID: 226 Motif name: Motif 226

Original motif Consensus sequence: AATAAACATGG

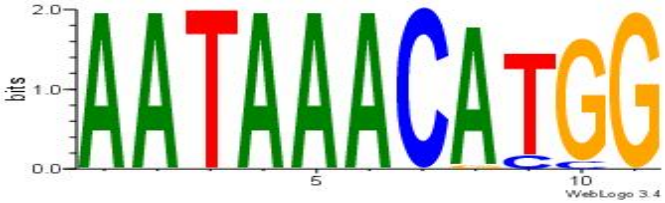

Reverse complement motif Consensus sequence: CCATGTTTATT

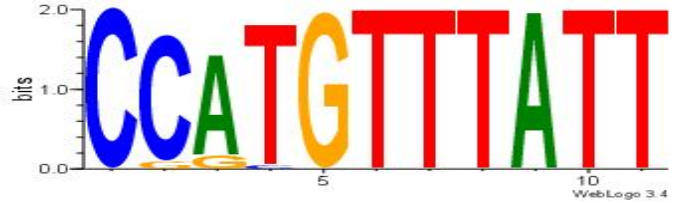

Best Matches for Motif ID 226 (Highest to Lowest)

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0612696

Alignment:

```
CCTMACAATCATGG
---AATAAACATGG
```

Original motif Consensus sequence: CCATGATTGTRAGG

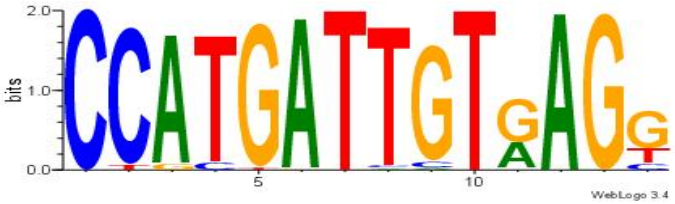

Reverse complement motif Consensus sequence: CCTMACAATCATG

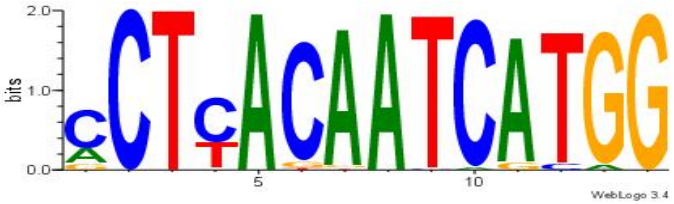

Dataset #:	1
Motif ID:	252
Motif name:	Motif 252
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0671681

Alignment:

```
CCMKGCTAATT
CCATGTTTATT
```

Original motif Consensus sequence: AATTAGCYRGG

Reverse complement motif Consensus sequence: CCMKGCTAATT

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0686983

Alignment:

```
TGTCCATGTGTTCTC
---CCATGTTTATT-
```

Original motif Consensus sequence: GAGAACACATGGACA

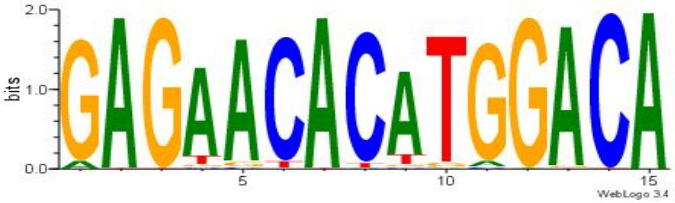

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

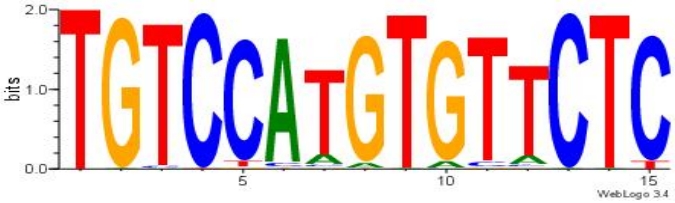

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0776401

Alignment:

```
AGTTCTTAAAGATGGT
----AATAAACATGG-
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

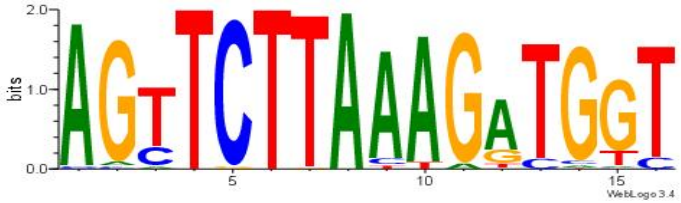

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

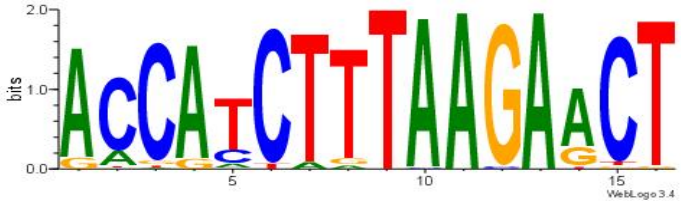

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8

Number of overlap: 11
Similarity score: 0.0862085

Alignment:
AAGAGGTTTAATTGRCTCA
-------CCATGTTTATT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

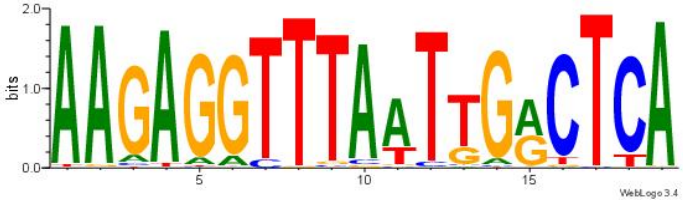

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

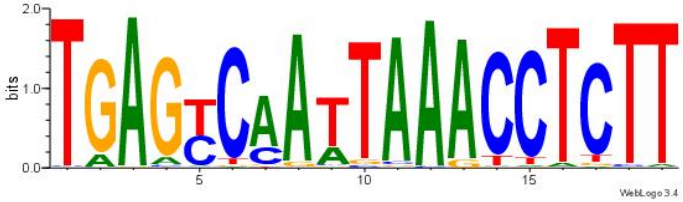

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.0868551

Alignment:
AATCAACCCTGGYRATCAAT
AATAAACATGG---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

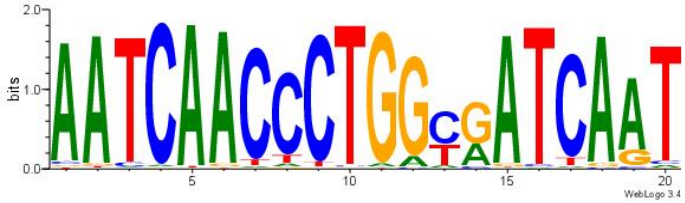

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

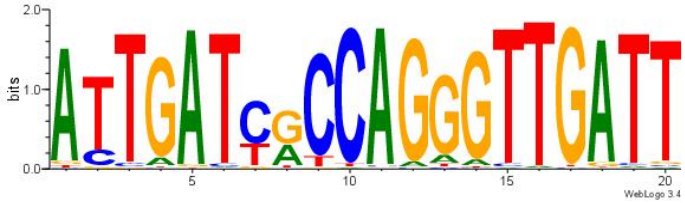

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0889935

Alignment:

```
GACAGGAGATTAACACTGAG
-------AATAAACATGG--
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

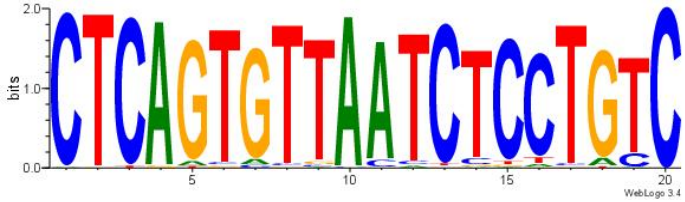

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

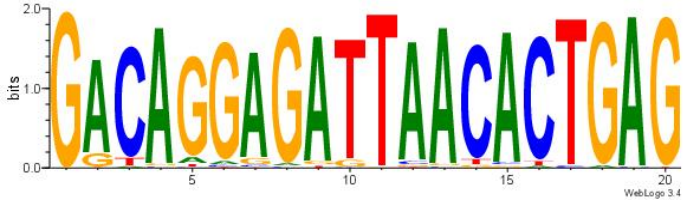

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897366

Alignment:

```
AAAACCAGCAAGTTTTTAT
-------CCATGTTTATT-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

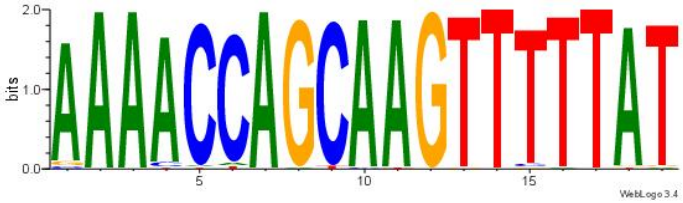

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

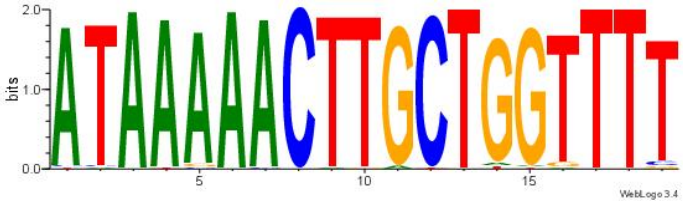

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 11
Similarity score: 0.0898285

Alignment:
CCCACACCCTTATTA
---CCATGTTTATT-

Original motif Consensus sequence: CCCACACCCTTATTA

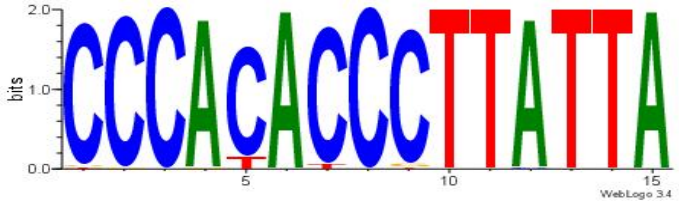

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

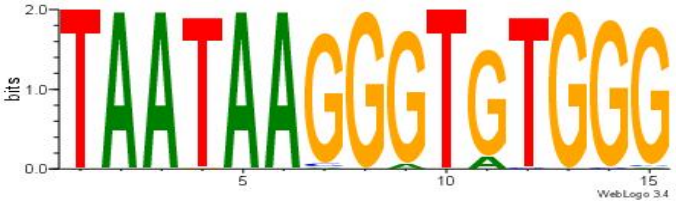

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0898587

Alignment:
AATTAAAAGACACAGACTG
----AATAAACATGG----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

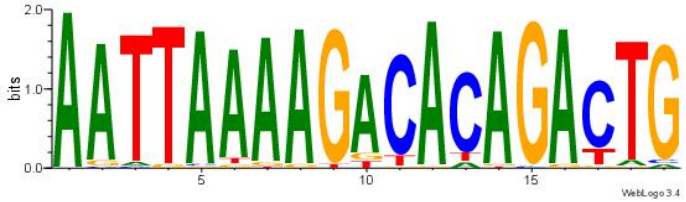

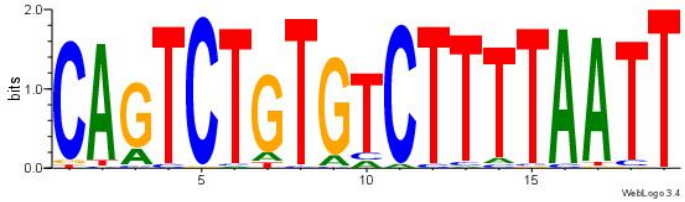

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0918128

Alignment:

```
CAAAGGCATAAGAATGAT
------AATAAACATGG-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

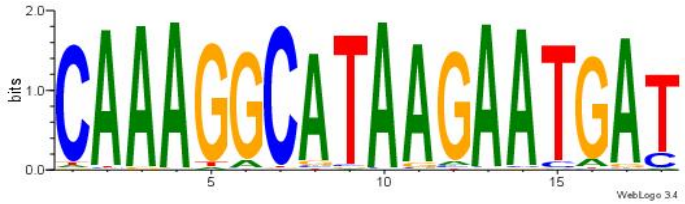

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

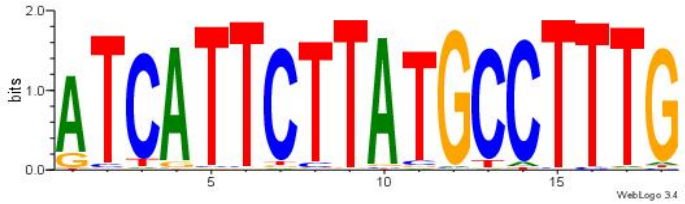

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0919362

Alignment:

```
TAAAAGACTACAWATTGGGT
------AATAAACATGG---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

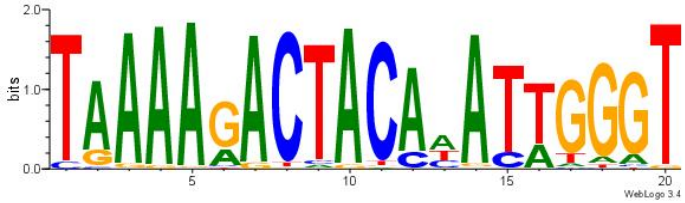

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

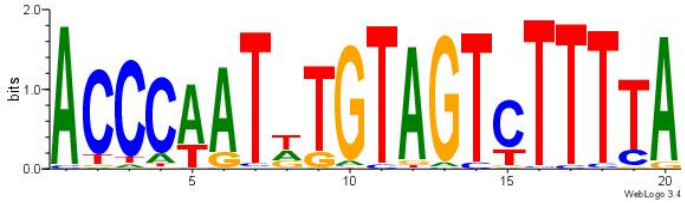

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.0923852

Alignment:
ATTCAASATGAGATTTGGG
AATAAACATGG--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

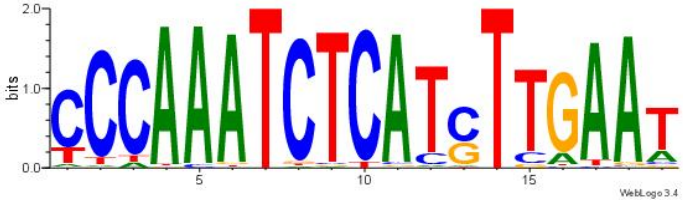

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

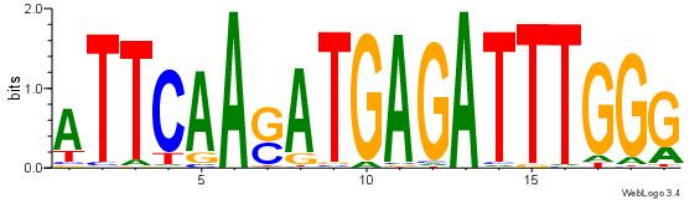

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0936772

Alignment:
AGGCCCCAGTGTSTGTTGTT
---CCATGTTTATT------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

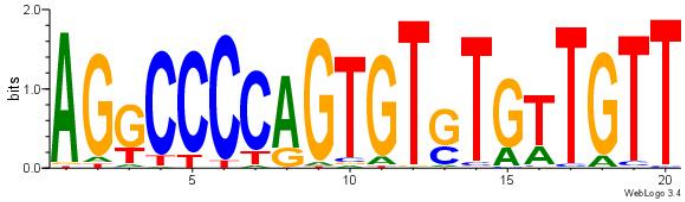

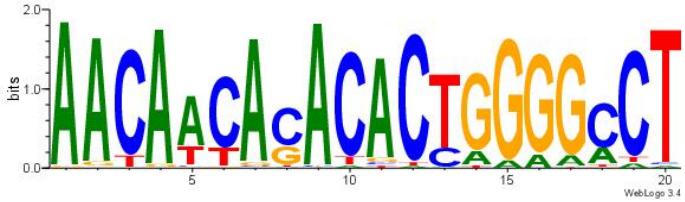

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0942487

Alignment:

```
TTCAMTCATGATTTGGCTCT
--CCATGTTTATT-------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

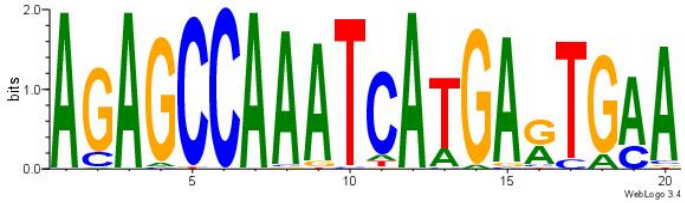

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

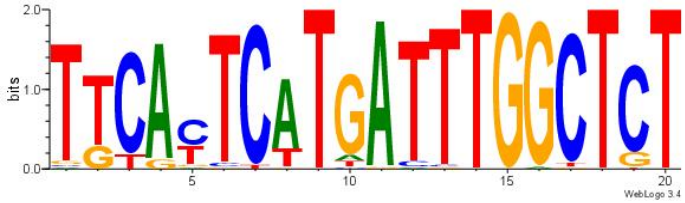

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0946053

Alignment:

```
AATGAKATCATGTCYTTTGC
-------CCATGTTTATT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

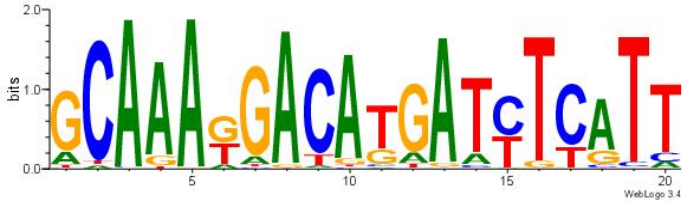

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

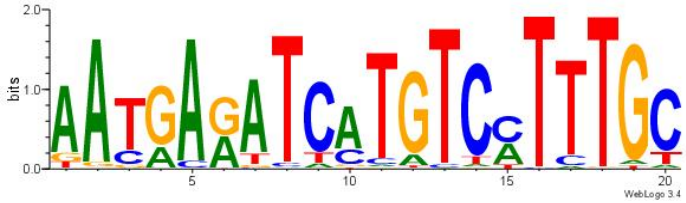

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.0949044

Alignment:
GTTTAACCATTGAGGGCCAG
-AATAAACATGG--------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

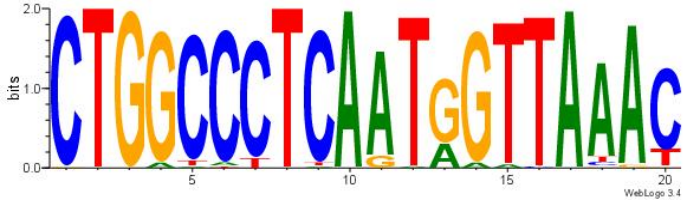

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

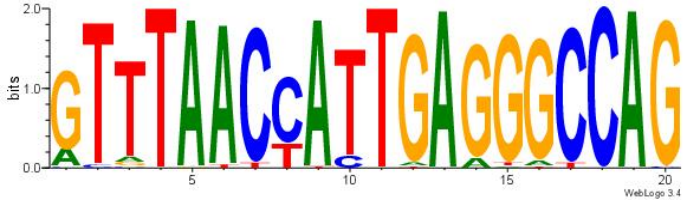

Dataset #: 1
Motif ID: 57
Motif name: Motif 57
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0998537

Alignment:
AATAAATATTT
AATAAACATGG

Original motif Consensus sequence: AAATATTTATT

Reverse complement motif Consensus sequence: AATAAATATTT

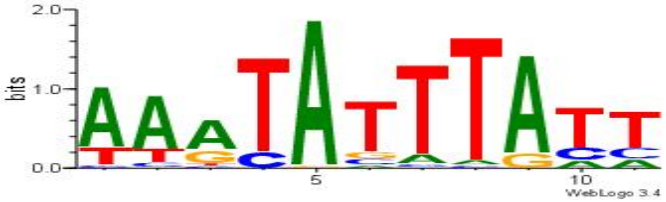

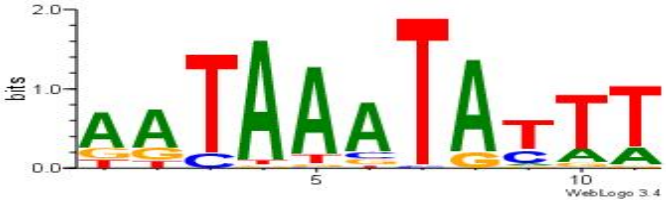

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.100225

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
---CCATGTTTATT------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

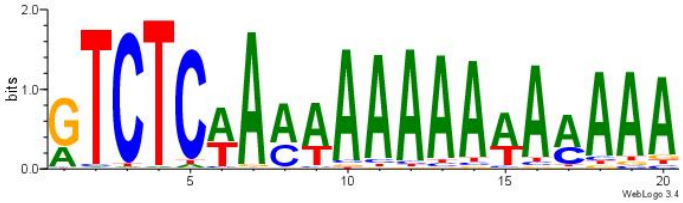

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

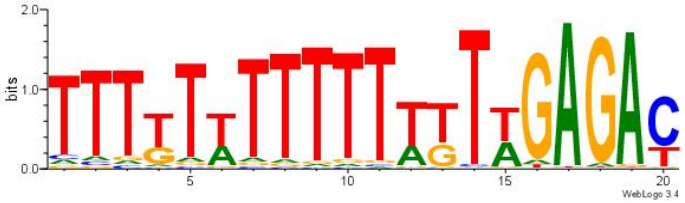

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.100555

Alignment:

```
TGGCTTCACCCAGTGGATCC
--------CCATGTTTATT-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

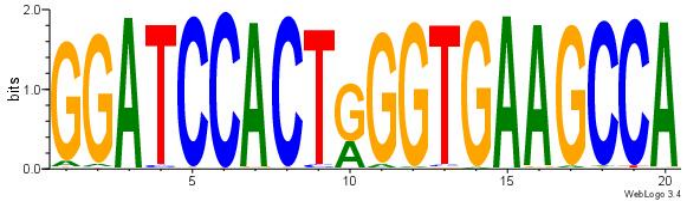

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

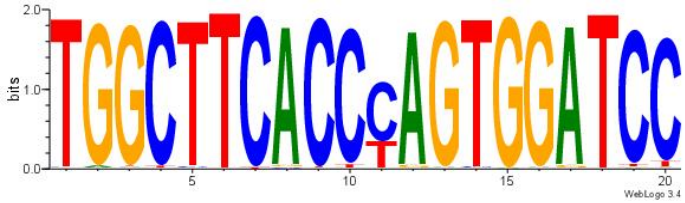

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.101666

Alignment:
AAGGGACATTKGAG
AATAAACATGG---

Original motif Consensus sequence: AAGGGACATTKGAG

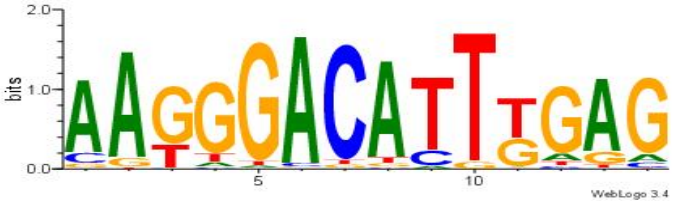

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

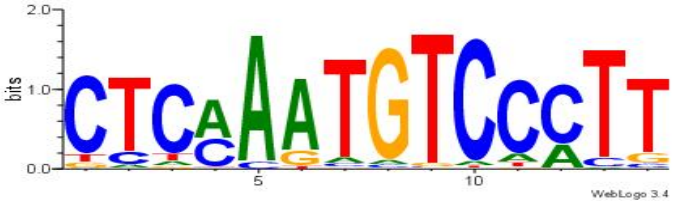

Dataset #: 1
Motif ID: 256
Motif name: Motif 256
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.102739

Alignment:
RCAGTGTACACTGY
--AATAAACATGG-

Original motif Consensus sequence: RCAGTGTACACTGY

Reverse complement motif Consensus sequence: KCAGTGTACACTG

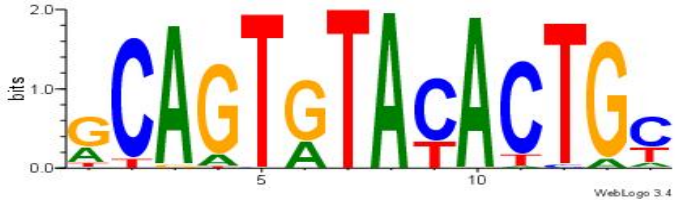

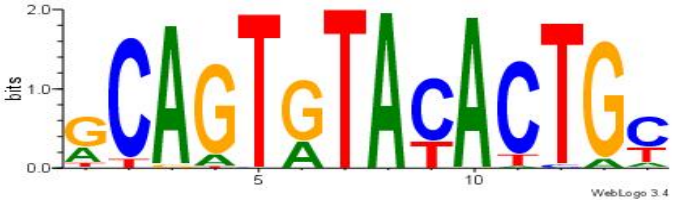

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.103393

Alignment:

```
GCACTCTGTMTCTAGCT
---CCATGTTTATT---
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

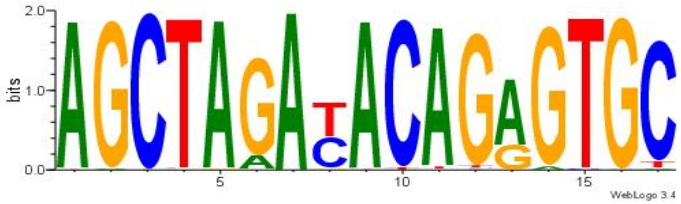

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

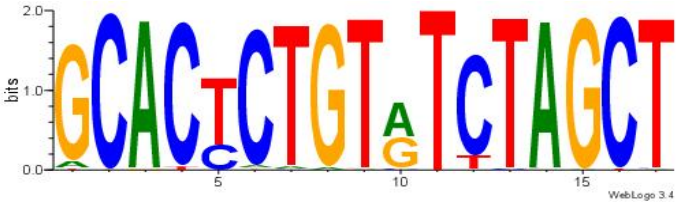

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.104346

Alignment:

```
CAACATGGATGRARCTGGAG
-------AATAAACATGG--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

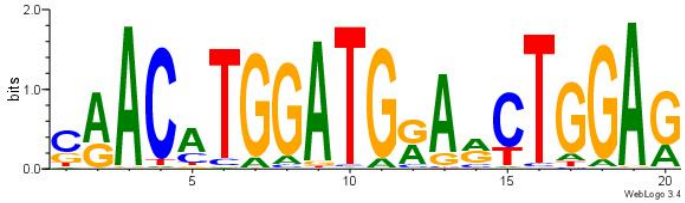

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

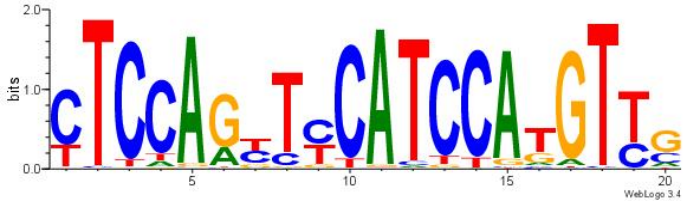

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.105567

Alignment:
AAGGAACAAACTCCRGACAC
----AATAAACATGG-----

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

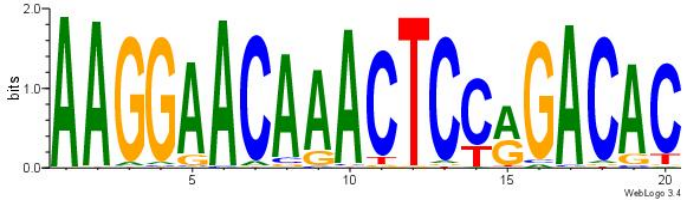

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

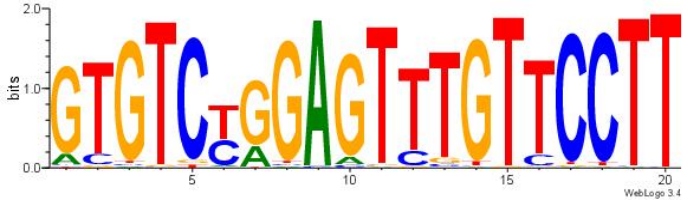

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.105873

Alignment:
CTAGACATAAAGGTTCTCCA
-----AATAAACATGG----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

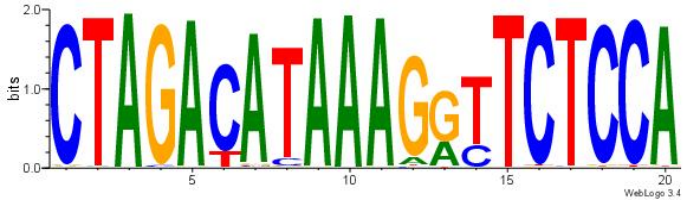

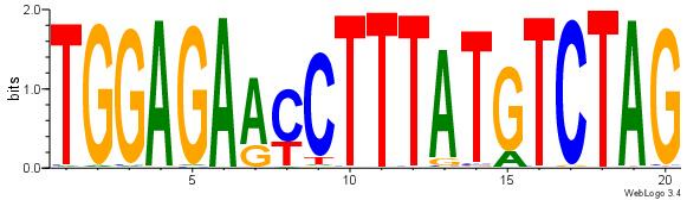

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.106

Alignment:

```
MTACACTGTTGGTGG
---CCATGTTTATT-
```

Original motif Consensus sequence: CCACCAACAGTGTAY

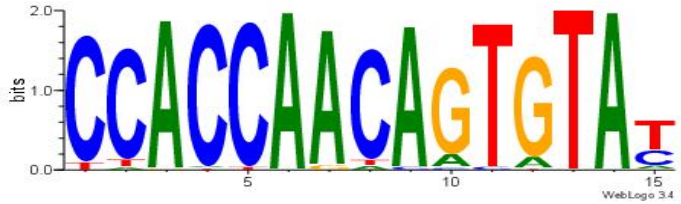

Reverse complement motif Consensus sequence: MTACACTGTTGGT

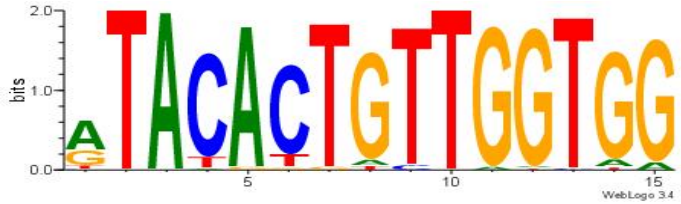

Dataset #:	1
Motif ID:	290

Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.106543

Alignment:

```
CTGTTTGCCTGGGTATCA
------CCATGTTTATT-
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

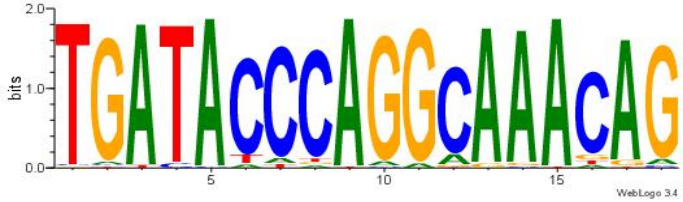

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

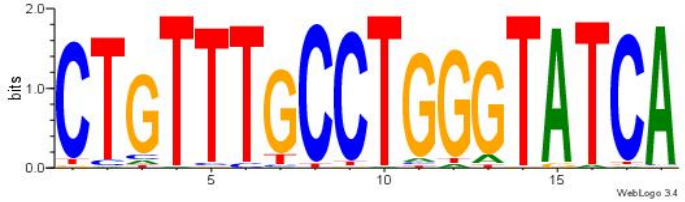

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.106948

Alignment:
ACAAGGCAAGTCCCTTCY
-----CCATGTTTATT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

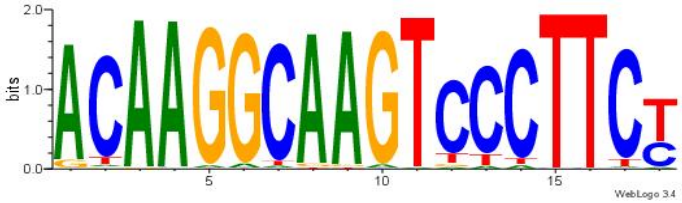

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

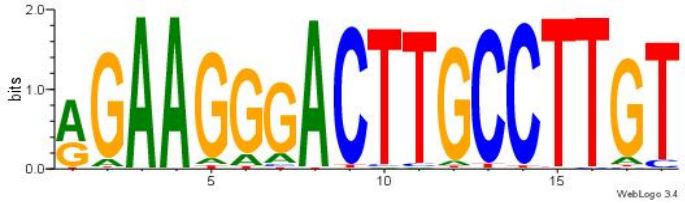

Dataset #:	1
Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.107346

Alignment:
TTGAGAACCACTG
--AATAAACATGG

Original motif Consensus sequence: CAGTGGTTCTCAA

Reverse complement motif Consensus sequence: TTGAGAACCACTG

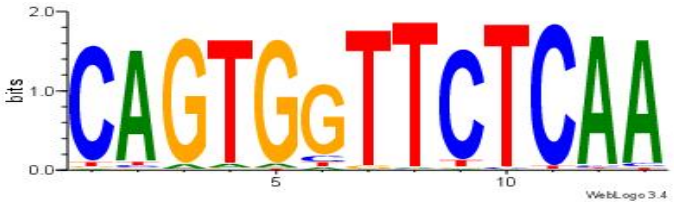

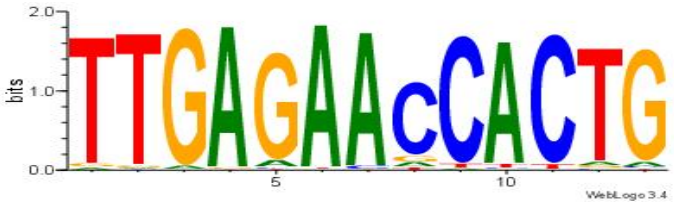

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.108531

Alignment:

```
KACATTGATTTTGTATC
--CCATGTTTATT----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

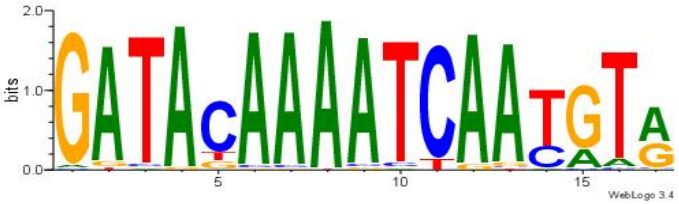

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

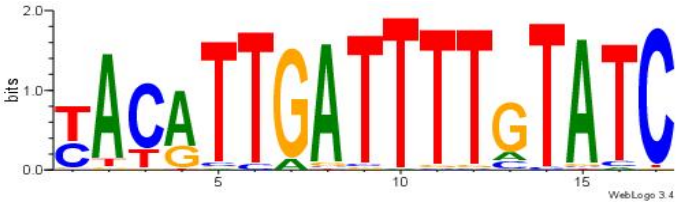

Dataset #: 1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.108733

Alignment:

```
CTATTGTGAATARTGCTGC
--------AATAAACATGG
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

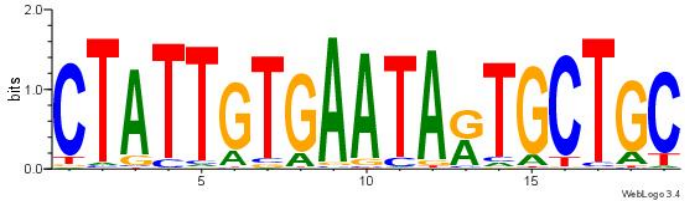

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

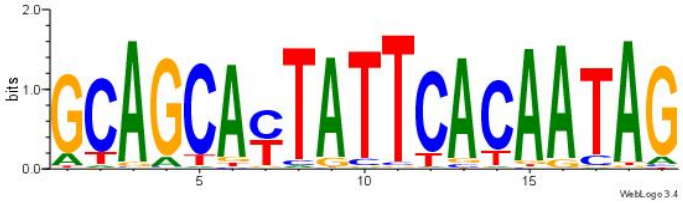

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.110137

Alignment:
TATGAGCCTGTAA
AATAAACATGG--

Original motif Consensus sequence: TATGAGCCTGTAA

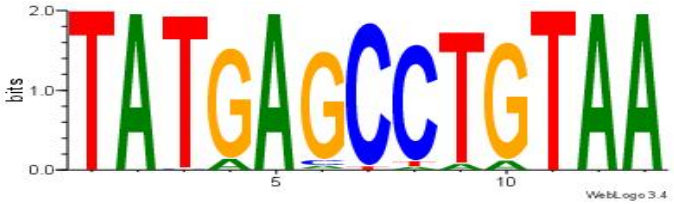

Reverse complement motif Consensus sequence: TTACAGGCTCATA

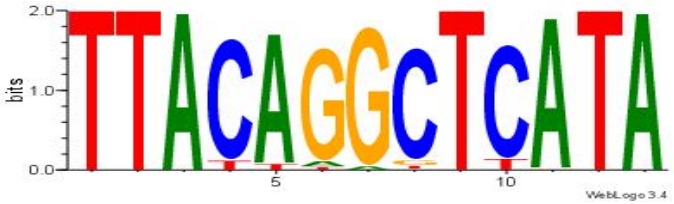

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.11021

Alignment:
GAAHCAACCKAAKTGTCCAT
--------AATAAACATGG-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

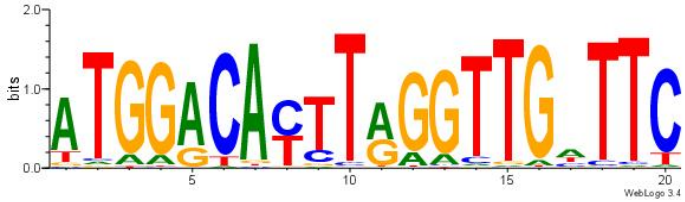

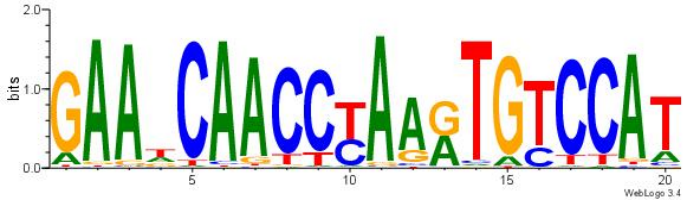

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.110328

Alignment:

```
TACCTGAGACTGGGTAATTT
--------CCATGTTTATT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

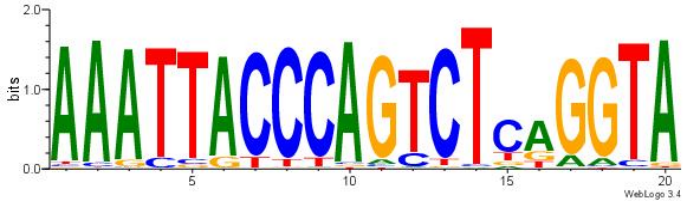

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

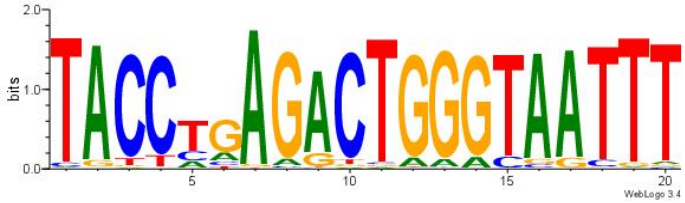

Dataset #: 1

Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.110707

Alignment:

```
CAMTTAGCATAATG
-AATAAACATGG--
```

Original motif Consensus sequence: CATTATGCTAARTG

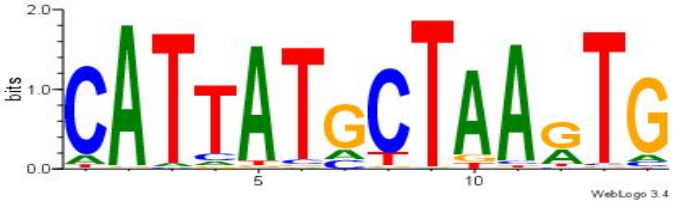

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

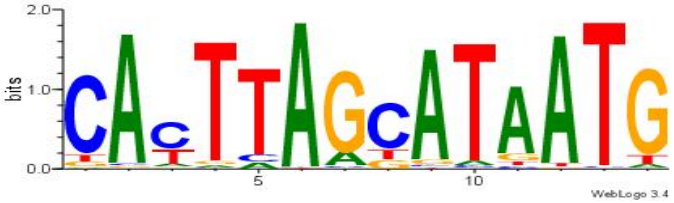

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.111109

Alignment:
GTAACACTCACCGCGARGGT
--AATAAACATGG-------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

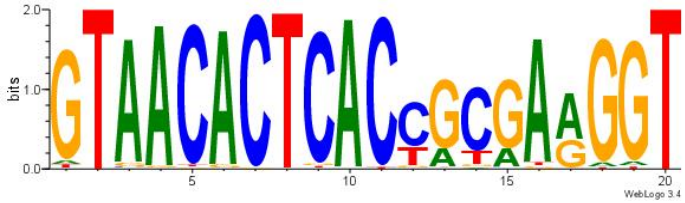

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

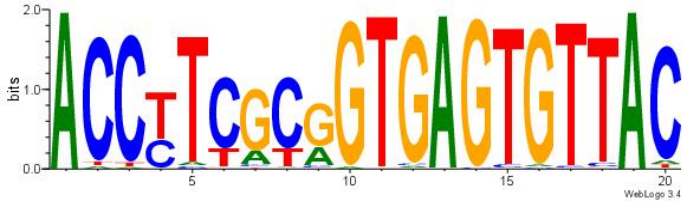

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.111405

Alignment:
GCAGCTTCACTCCTGA
CCATGTTTATT-----

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence:
TCAGGAGTGAAGCTGC

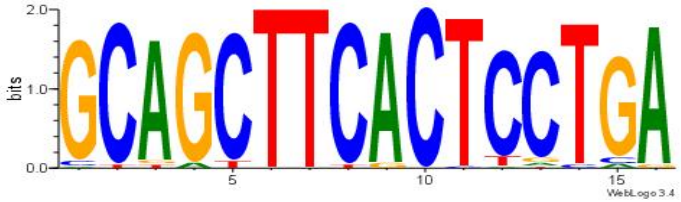

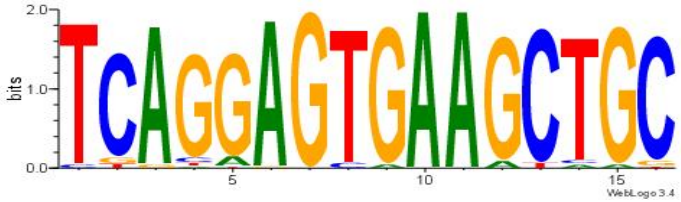

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.111631

Alignment:

```
GGGASCACATGG
AATAAACATGG-
```

Original motif Consensus sequence: CCATGTGSTCCC

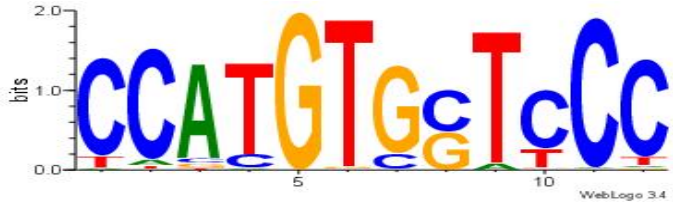

Reverse complement motif Consensus sequence: GGGASCACATGG

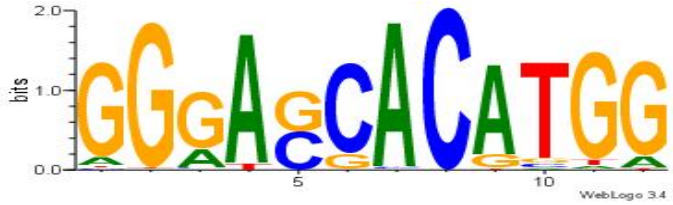

Dataset #:	1
Motif ID:	261

Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.111804

Alignment:

```
ATCTCASAAATCACCACTA
--------AATAAACATGG
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

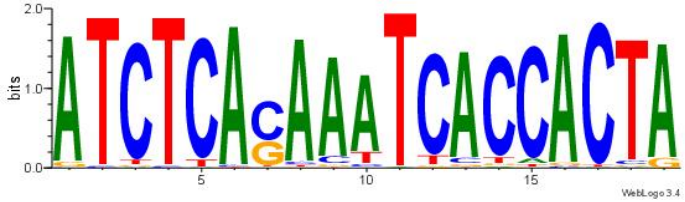

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

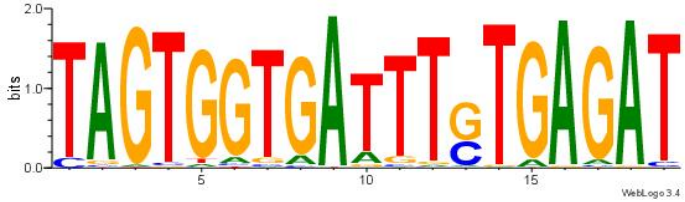

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.111897

Alignment:
AGGAGGAAGTCAATTTC
----CCATGTTTATT--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

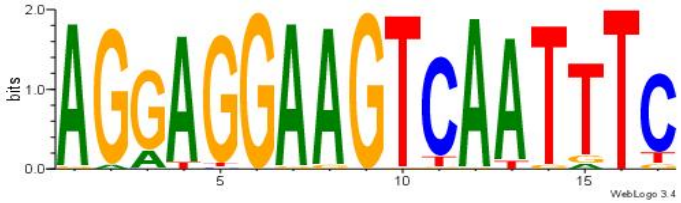

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

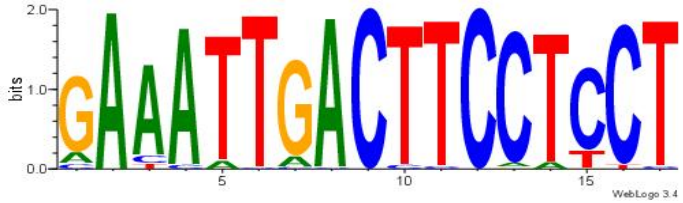

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.112024

Alignment:
TGCTCACACAAAGCCTGT
AATAAACATGG-------

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

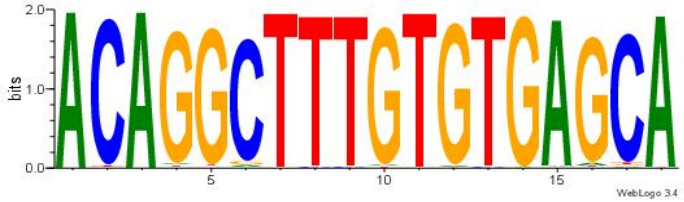

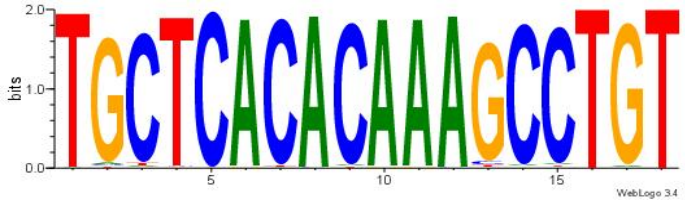

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.112319

Alignment:

```
GTTGGCCAGGCTGGTCT
-----CCATGTTTATT-
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

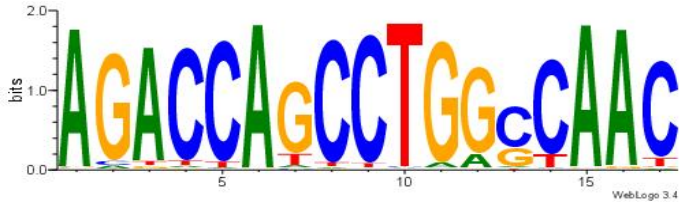

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

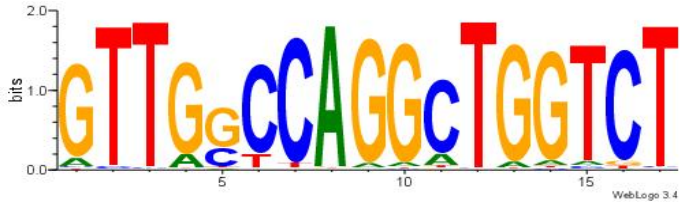

Dataset #: 1

Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.112736

Alignment:

```
CAATGATAGACTGGAT
-AATAAACATGG----
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

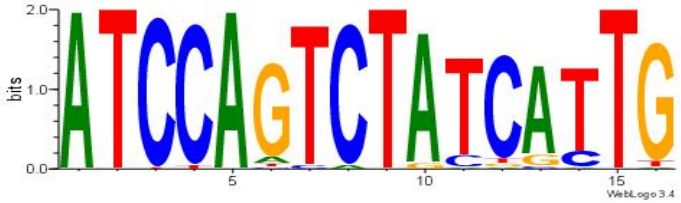

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

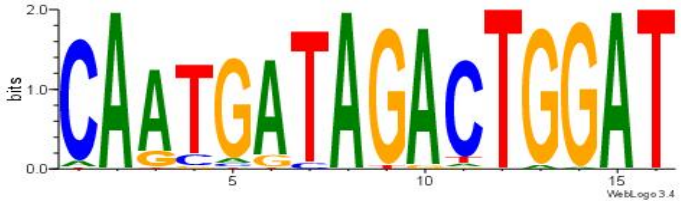

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.113712

Alignment:
CCAAGGTCACA
CCATGTTTATT

Original motif Consensus sequence: CCAAGGTCACA

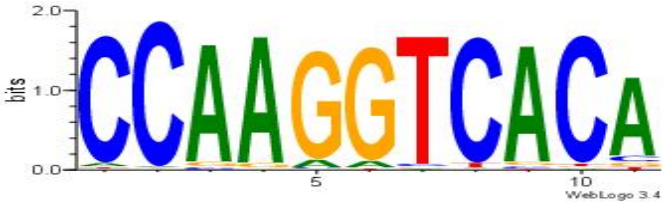

Reverse complement motif Consensus sequence: TGTGACCTTGG

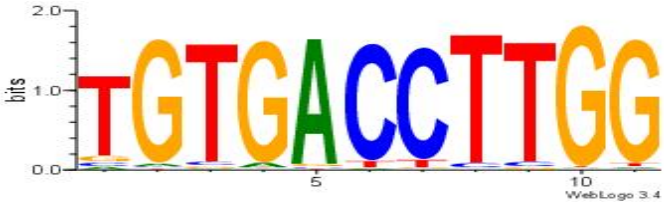

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.113986

Alignment:
GCTCTCAATTGGTCATT
------CCATGTTTATT

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

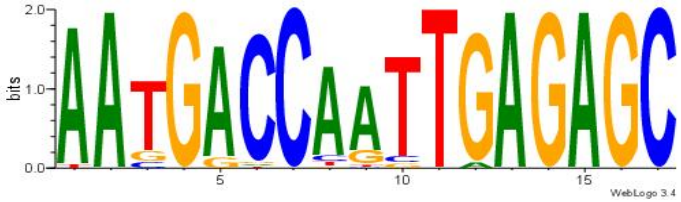

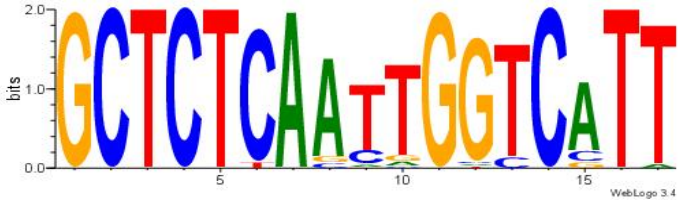

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.11408

Alignment:

```
CCCATGCAAGTCYRAAATCC
-CCATGTTTATT--------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

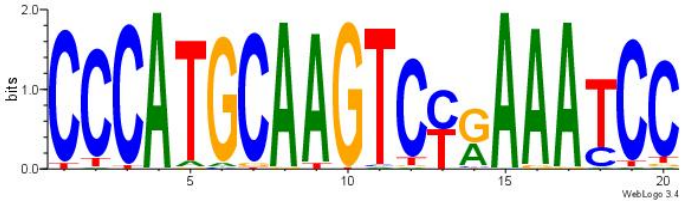

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

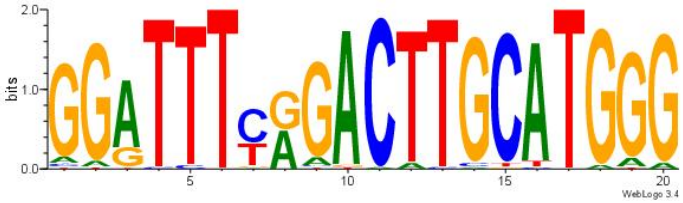

Dataset #: 1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.114478

Alignment:

```
AGAAAGGCATGTGAAAA
-AATAAACATGG-----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

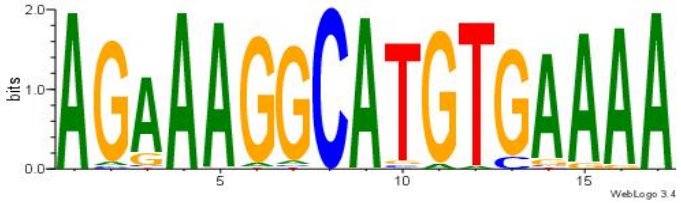

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

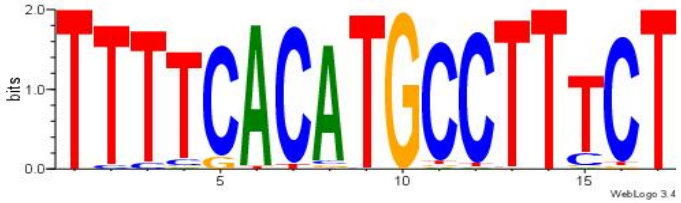

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.114904

Alignment:
AAGTTCTKGGKTACATGTGC
--AATAAACATGG-------

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

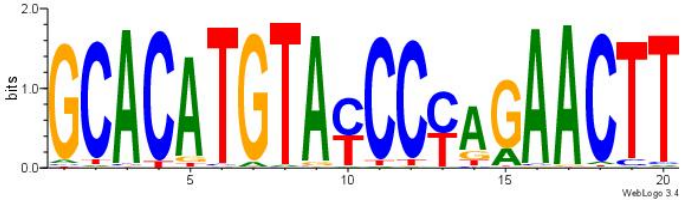

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

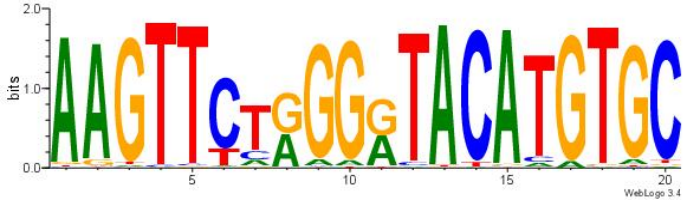

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.11498

Alignment:
ATATTGATGATCCTGACC
-----AATAAACATGG--

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence:
GGTCAGGATCATCAATAT

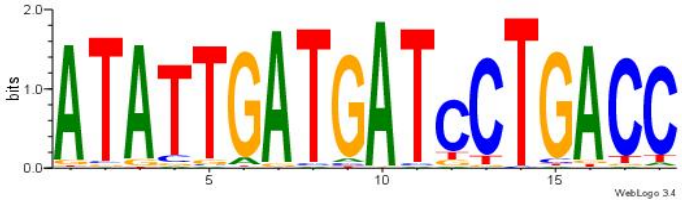

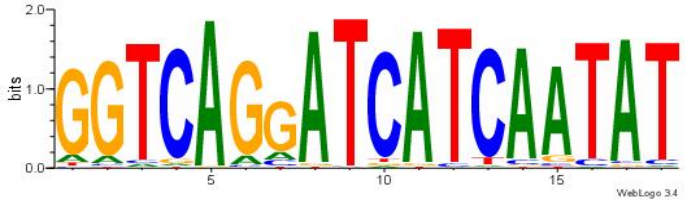

Dataset #: 1 Motif ID: 227 Motif name: Motif 227

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

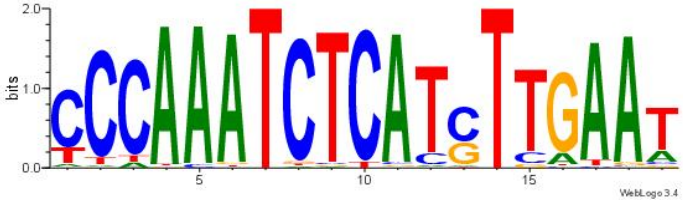

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

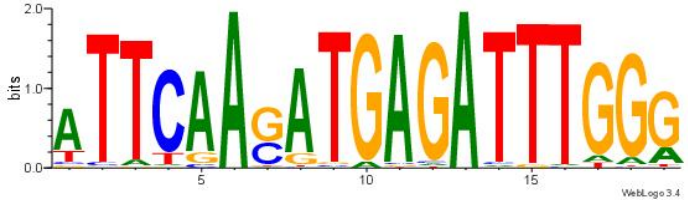

Best Matches for Motif ID 227 (Highest to Lowest)

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.103606

Alignment:

AATCAACCCTGGYRATCAAT
-CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

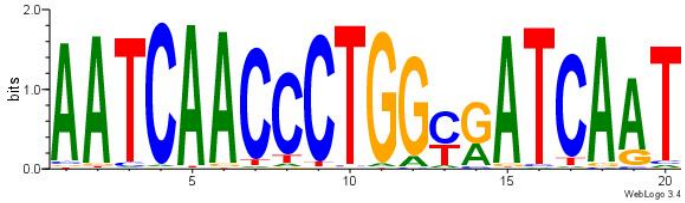

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

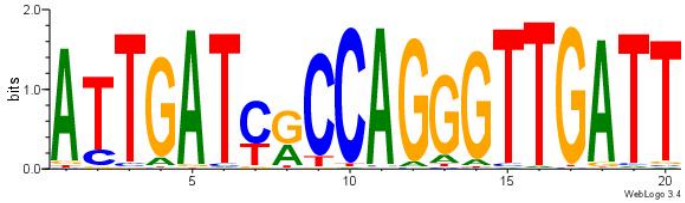

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.107017

Alignment:
ACATCMTCTGAAATCTAGG
ATTCAASATGAGATTTGGG

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

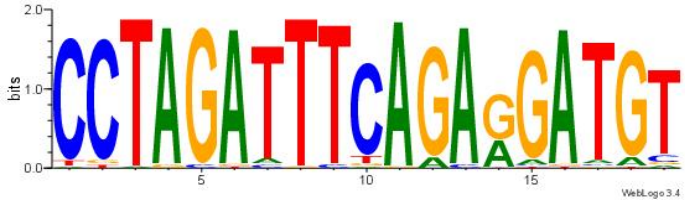

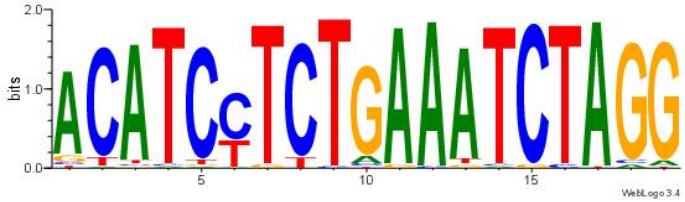

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.108656

Alignment:
CMCAGTTCACAATAGGGTT
CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

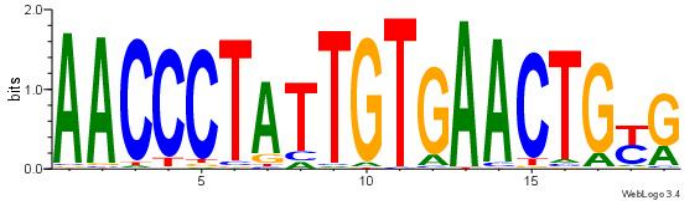

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

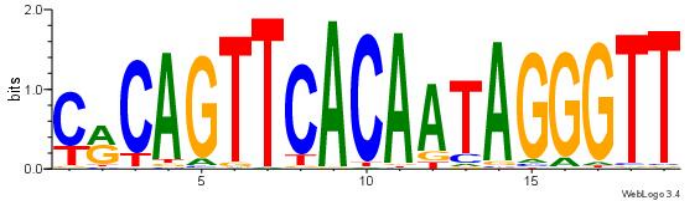

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.10976

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

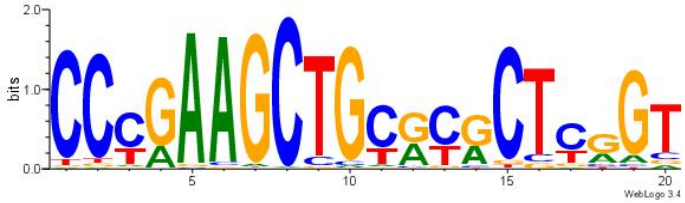

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

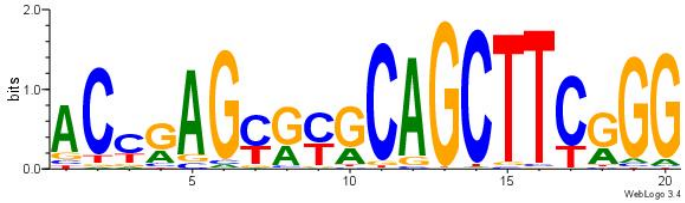

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.110263

Alignment:
TCCAAATGGGAGAAATTGGC
ATTCAASATGAGATTTGGG-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

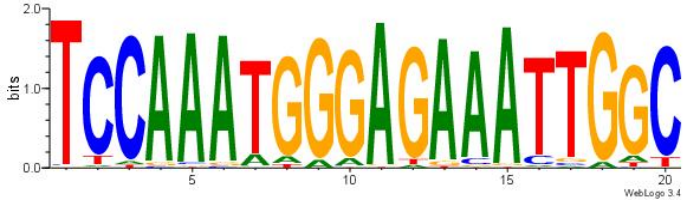

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

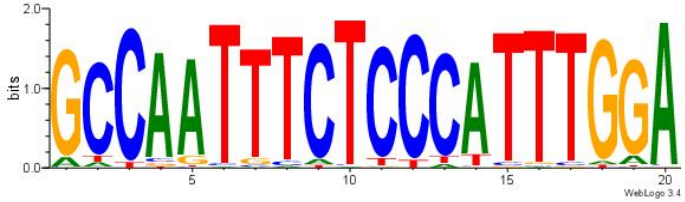

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.112834

Alignment:
ATCTGACAGGAGGYRGAGCT
-ATTCAASATGAGATTTGGG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

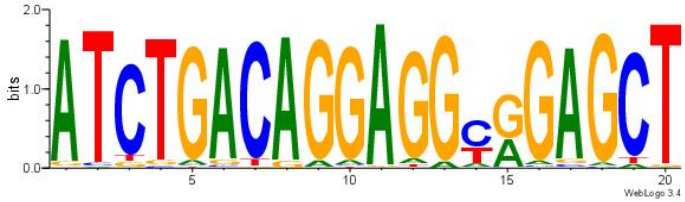

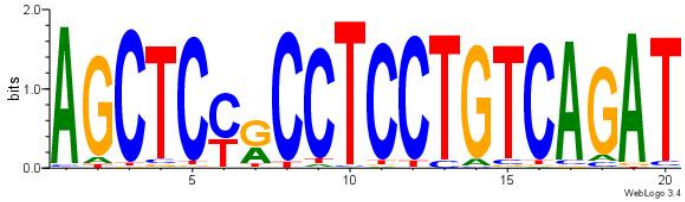

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.112903

Alignment:

```
CTCCAGKTMCATCCATGTTG
-CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

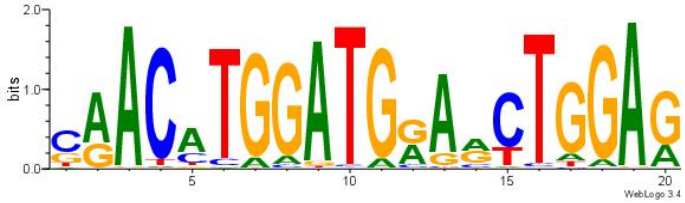

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

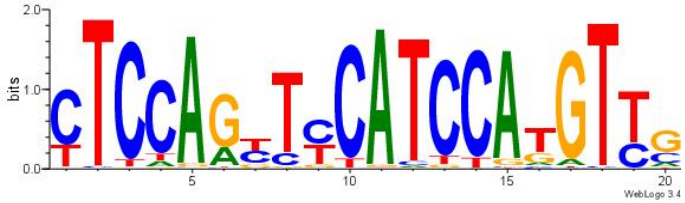

Dataset #: 1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.11475

Alignment:

```
ATTAGCYRGGCRTGGTGGC
ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

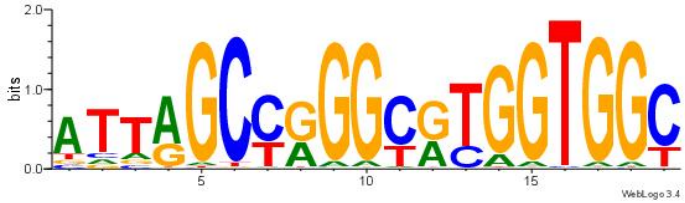

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

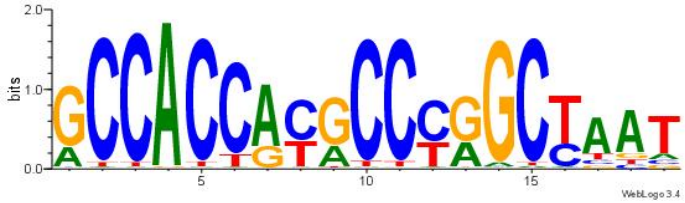

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.116828

Alignment:
TMGGGAGGCTGAGGCAGGAG
-ATTCAASATGAGATTTGGG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

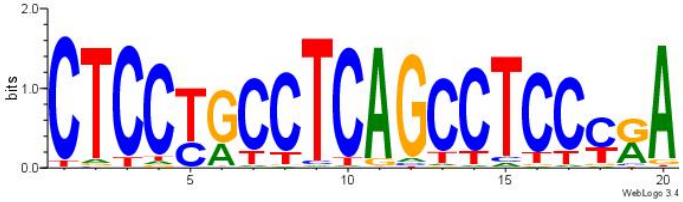

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

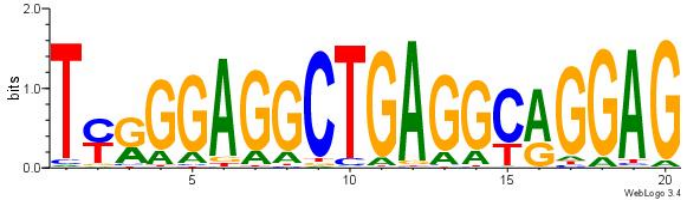

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.119109

Alignment:
ACCCAATWTGTAGTCTTTTA
-CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

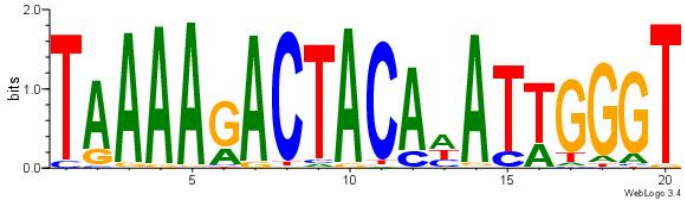

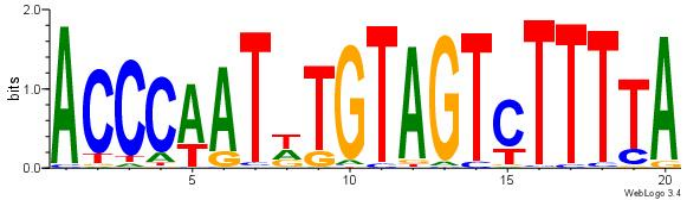

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.120976

Alignment:
CTCAGTGTTAATCTCCTGTC
CCCAAATCTCATSTTGAAT-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

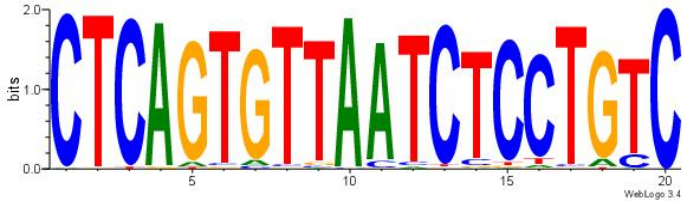

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

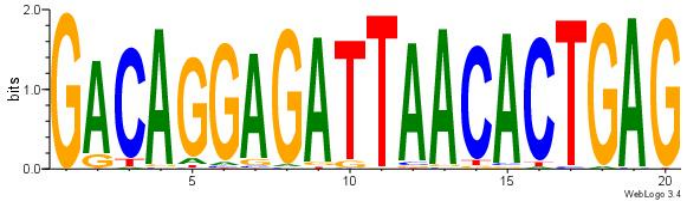

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.121215

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

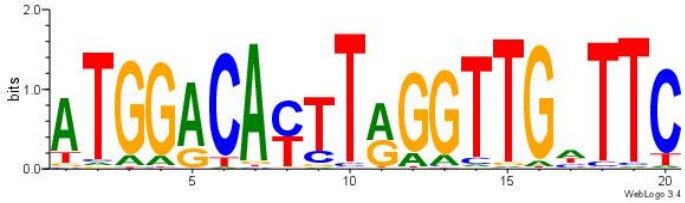

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

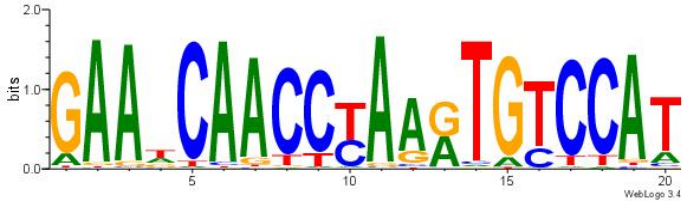

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.121249

Alignment:
CAAASCKGTCATAGGCCAT
CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

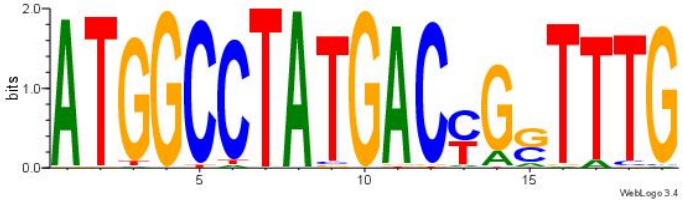

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

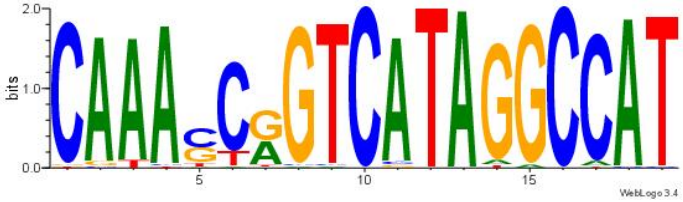

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.122137

Alignment:
AAGCAGGGCGAGGCATTGCC
-ATTCAASATGAGATTTGGG

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

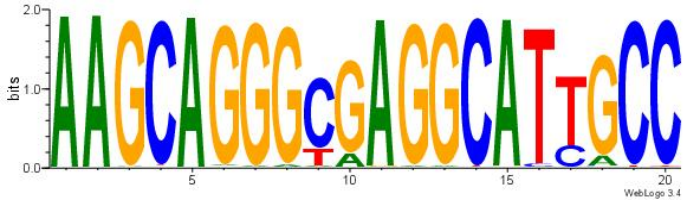

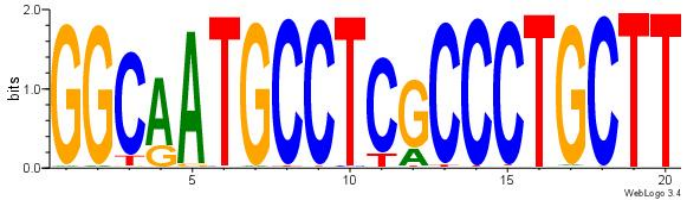

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.122368

Alignment:

```
GGTTCATCTCACTAGGGAGT
CCCAAATCTCATSTTGAAT-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

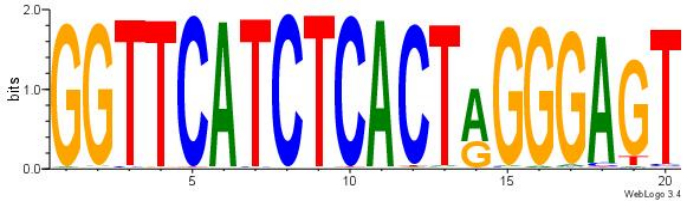

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

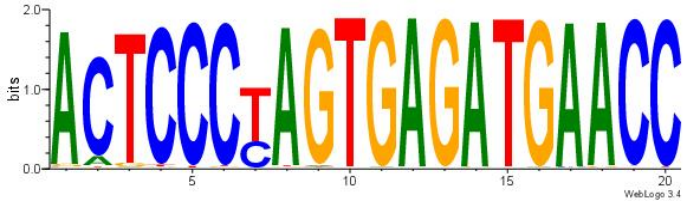

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.125232

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

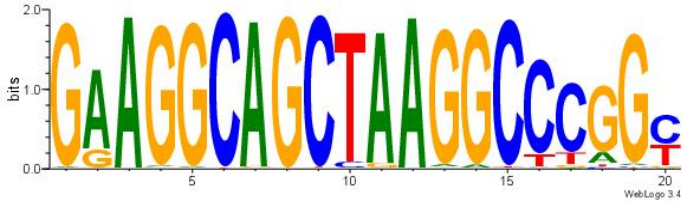

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

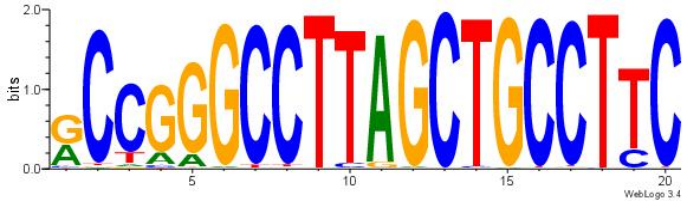

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.125835

Alignment:
GTCTCWAMAAAAAAWAMAAA
ATTCAASATGAGATTTGGG-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

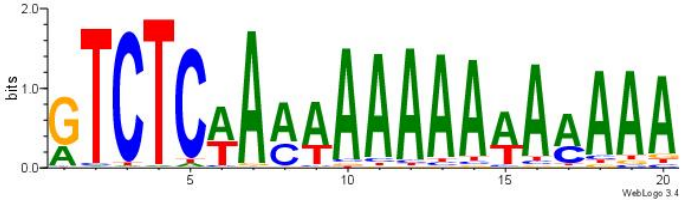

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

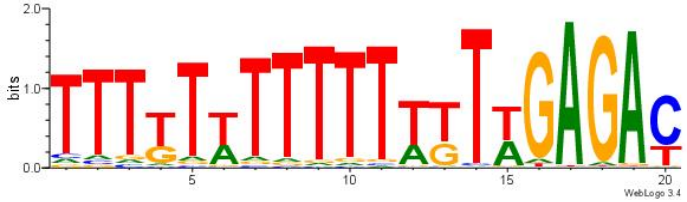

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.126727

Alignment:
TTCAMTCATGATTTGGCTCT
CCCAAATCTCATSTTGAAT-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

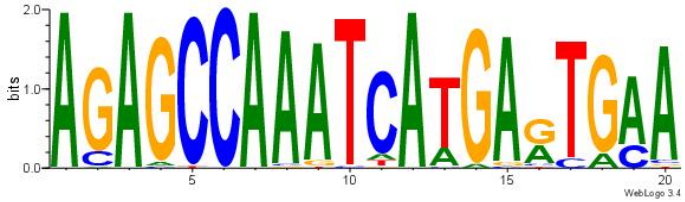

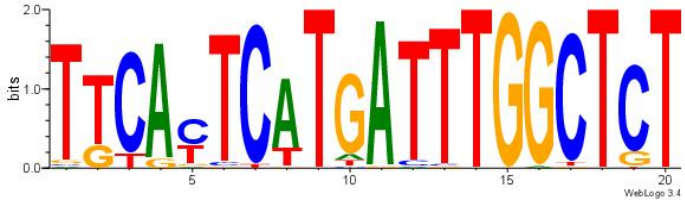

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.127264

Alignment:
AATGAKATCATGTCYTTTGC
CCCAAATCTCATSTTGAAT-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

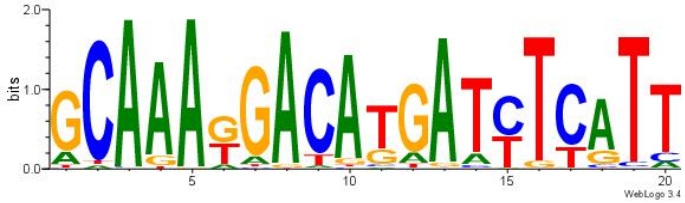

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

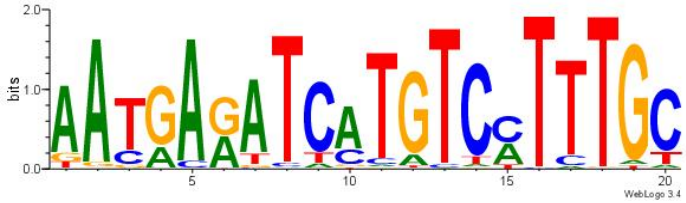

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.127645

Alignment:

GKCTGTACCCCCATTGTAT
CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

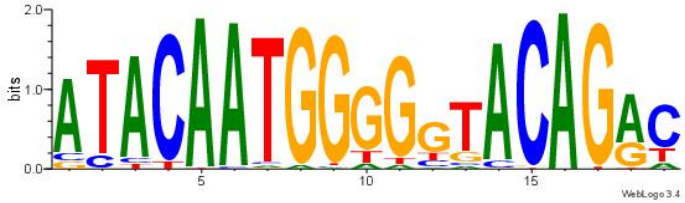

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

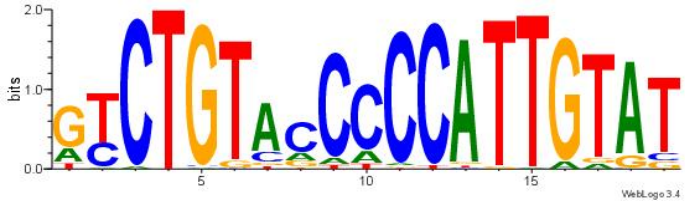

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.129235

Alignment:
ATGGAATAYTATTCAGCCAT
CCCAAATCTCATSTTGAAT-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

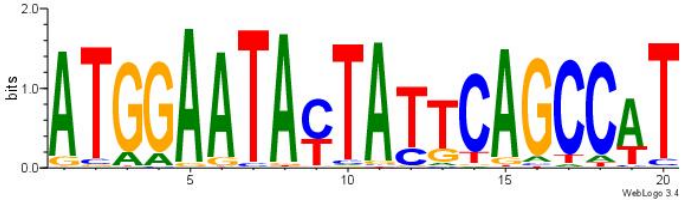

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

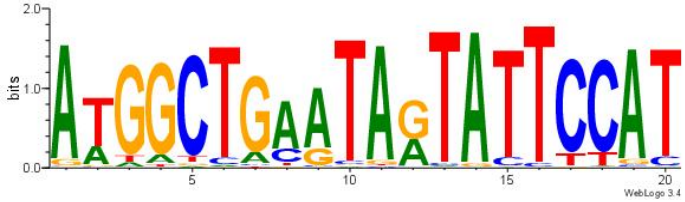

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.129622

Alignment:
ACTGTCTTCCACCTCCACAT
CCCAAATCTCATSTTGAAT-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

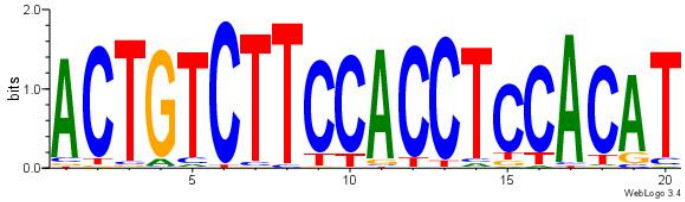

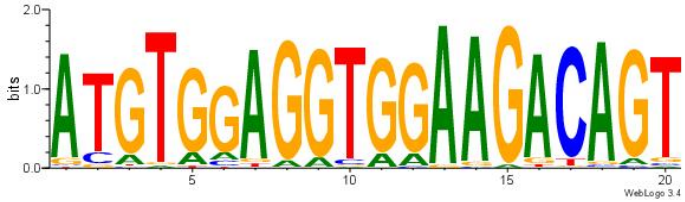

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130178

Alignment:

```
CCCYAATACTGCGCTTTTC
CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

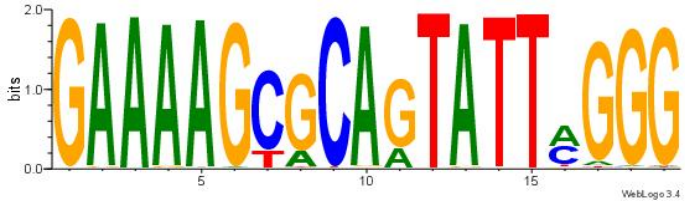

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

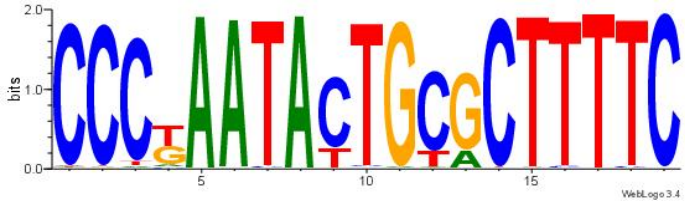

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130558

Alignment:

```
CACCAGACTCAGGAGCCCAG
-CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

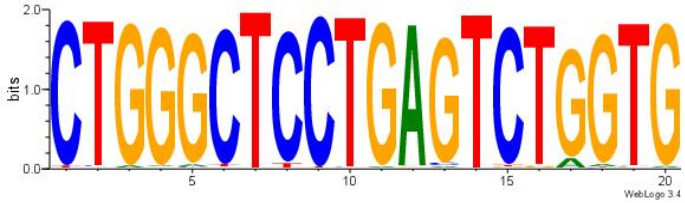

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

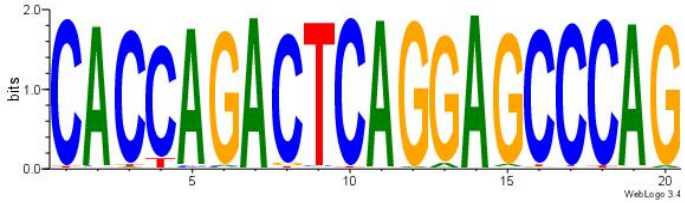

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.130921

Alignment:
AGTTCCGGGTGGGCGTGGG
ATTCAASATGAGATTTGGG

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

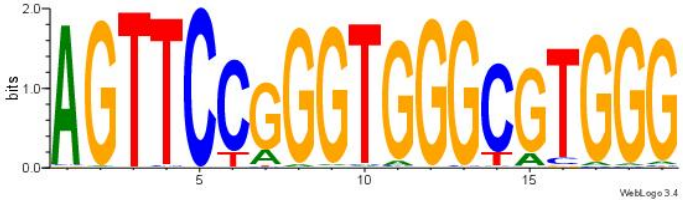

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

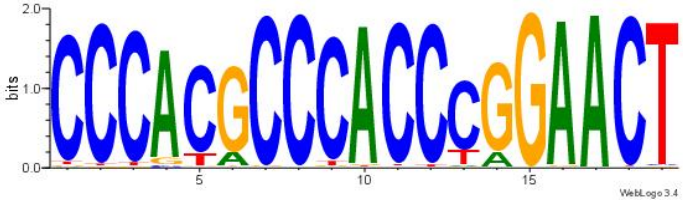

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.131918

Alignment:
GTKTMTATMTACCACATTTT
-ATTCAASATGAGATTTGGG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

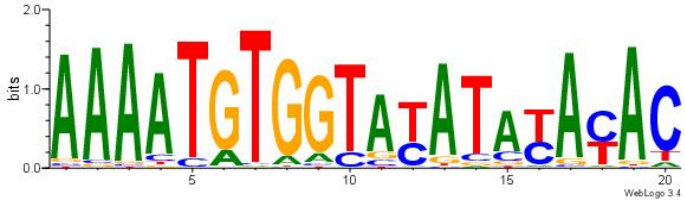

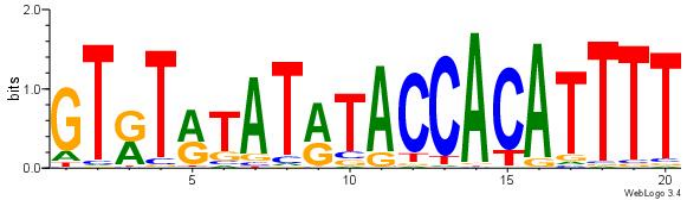

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13226

Alignment:

```
CTTGCCCAAGGTCACACAGC
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

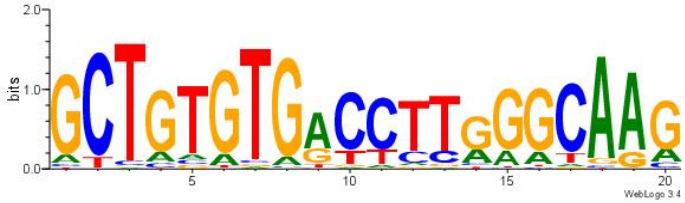

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

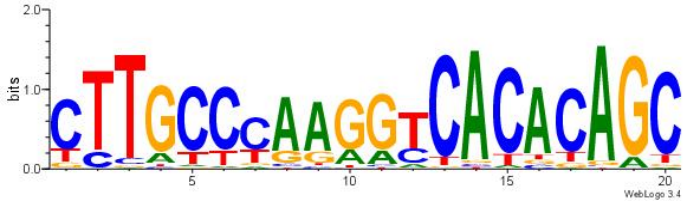

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13252

Alignment:

```
TYTGTCMTTTTGTGACTGGC
ATTCAASATGAGATTTGGG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

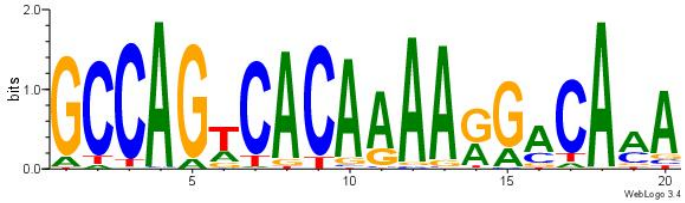

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

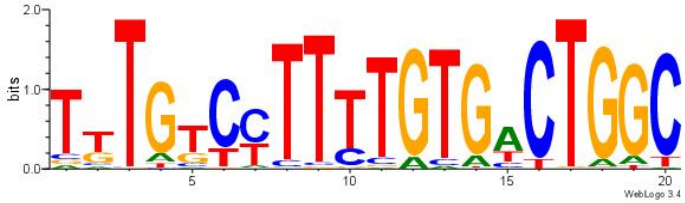

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.132628

Alignment:
CMTAGYACAGTGCCTGGCAC
-CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

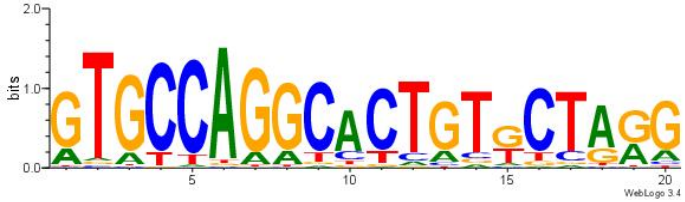

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

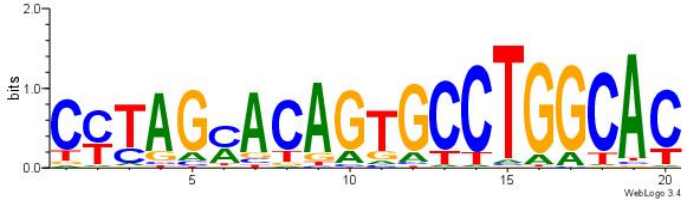

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.132799

Alignment:
AAGTCCAAGATCAAGGTGYY
ATTCAASATGAGATTTGGG-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

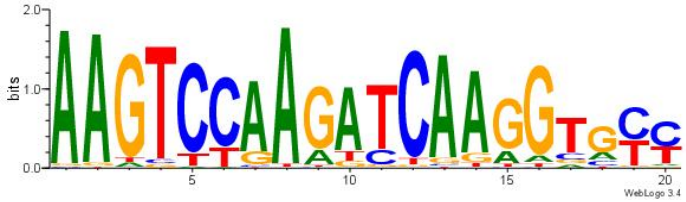

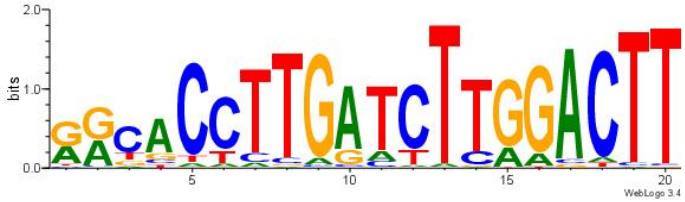

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13319

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
ATTCAASATGAGATTTGGG-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

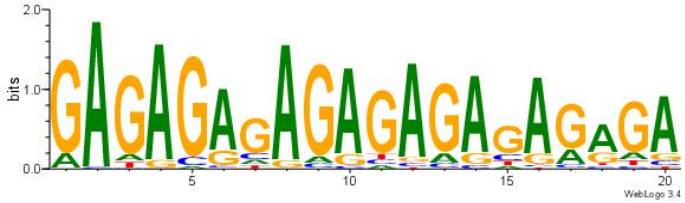

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

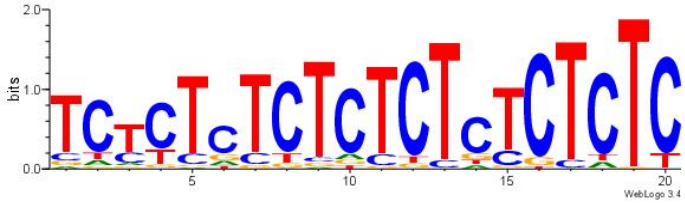

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133808

Alignment:

```
AACAACASACACTGGGGCCT
-CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

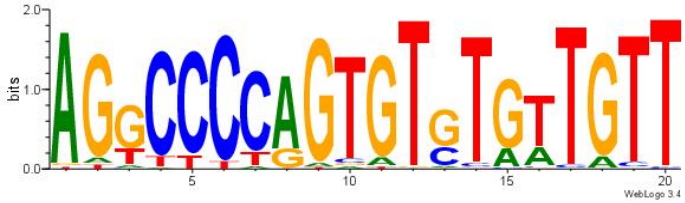

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

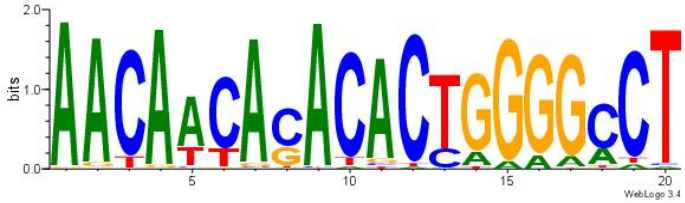

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.134165

Alignment:
TTGTCCCACTGGAAGGTCTT
-ATTCAASATGAGATTTGGG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

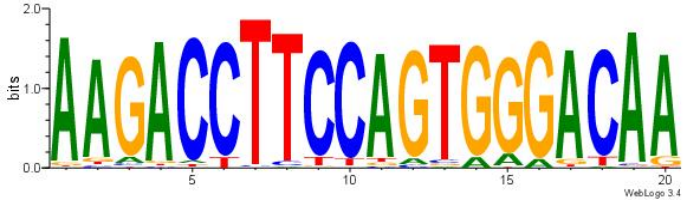

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

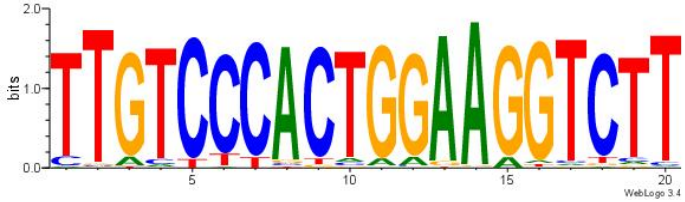

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.134274

Alignment:
AGGCTGTTTTACAGTTAAC
ATTCAASATGAGATTTGGG

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

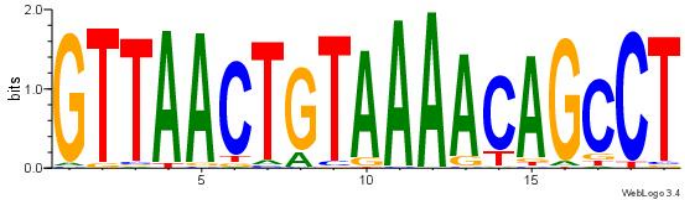

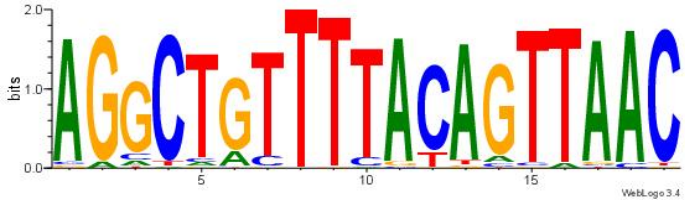

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.134275

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

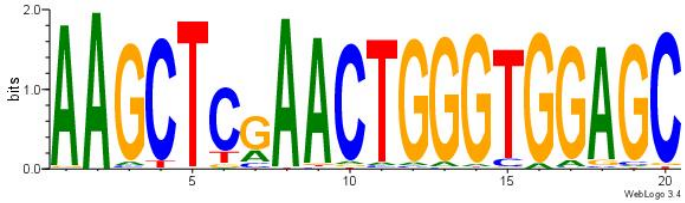

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

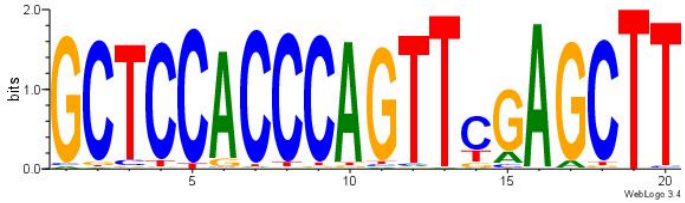

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134865

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

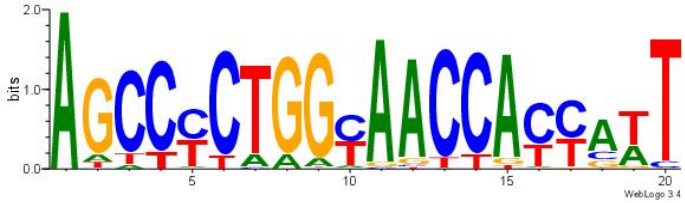

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

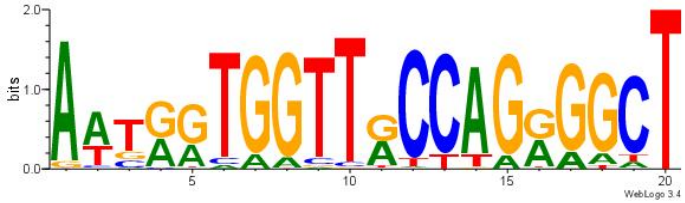

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.135482

Alignment:
TGCTGGAGGTCCACTCCAGA
-CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

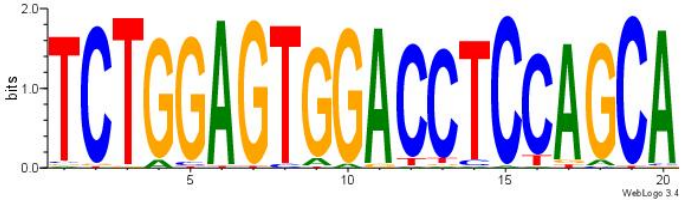

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

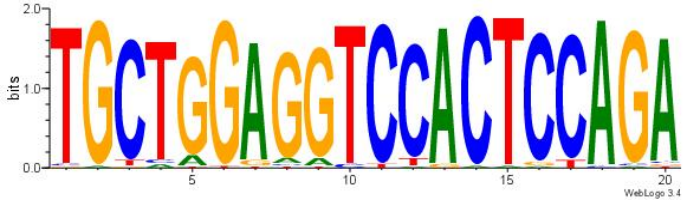

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.135537

Alignment:
CTCATTTAATCCTCACAAC
CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

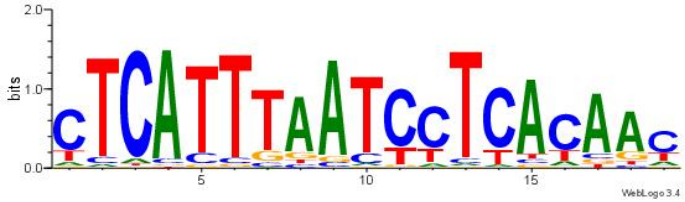

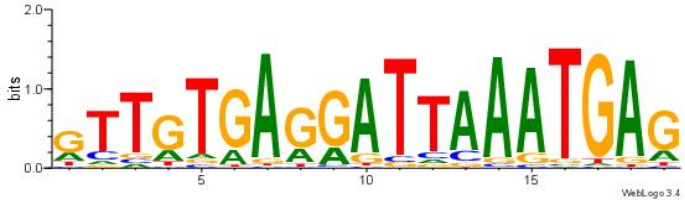

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.135768

Alignment:

```
AGTGAGAACATRYRRTRTTT
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

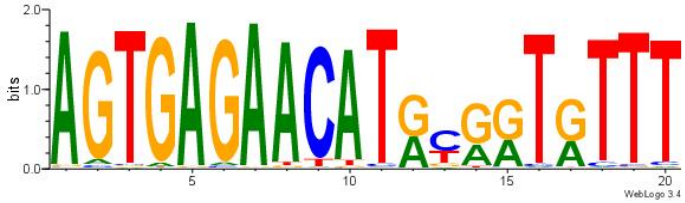

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

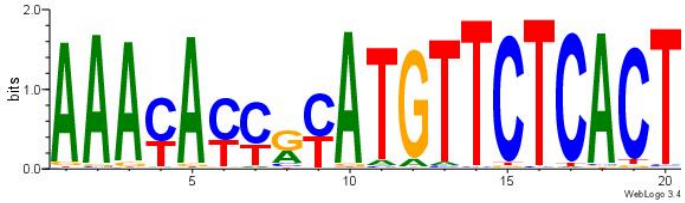

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.135989

Alignment:

```
GTTTAACCATTGAGGGCCAG
ATTCAASATGAGATTTGGG-
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

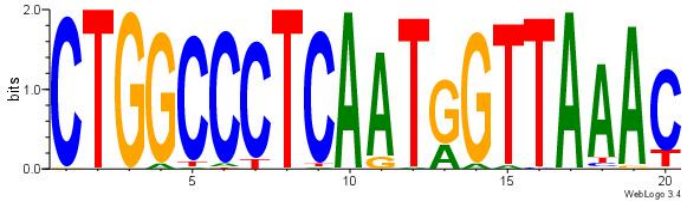

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

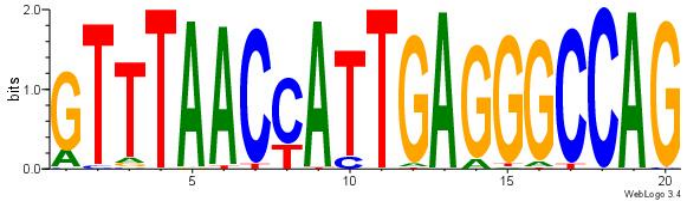

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.136138

Alignment:
ACATCCCAGACGATGGGCG
ATTCAASATGAGATTTGGG

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

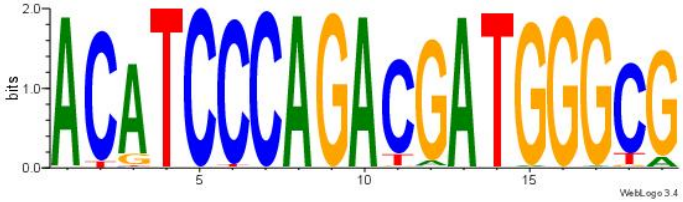

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

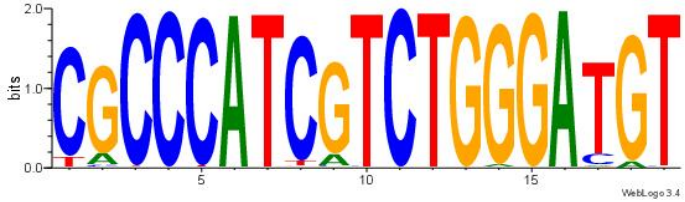

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.137574

Alignment:
GCACATGTAYCCYAGAACTT
-CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

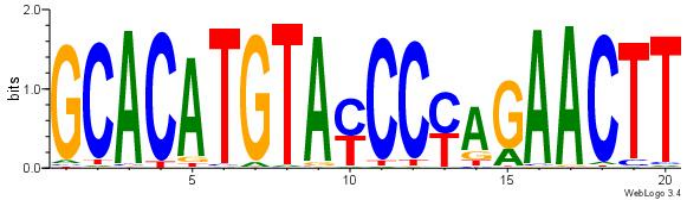

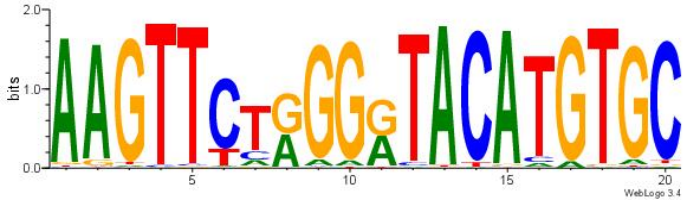

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139082

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
ATTCAASATGAGATTTGGG-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

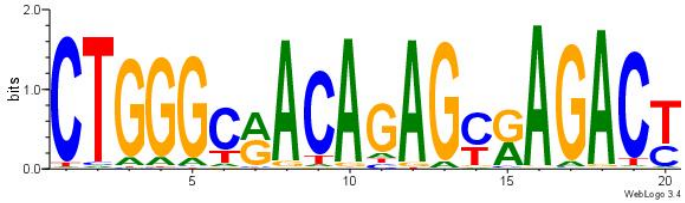

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

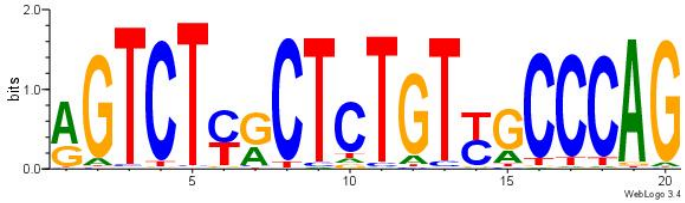

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139721

Alignment:

```
ACTTTGGACTGTGGACTTTT
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

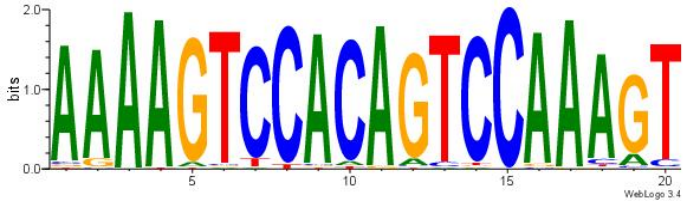

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

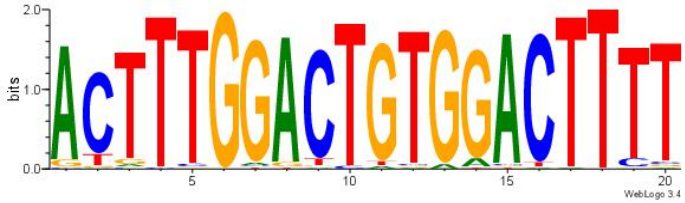

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.140066

Alignment:
ATGTAACCAAAYACCACCTG
ATTCAASATGAGATTTGGG-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

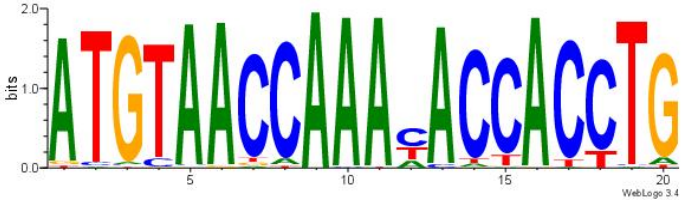

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

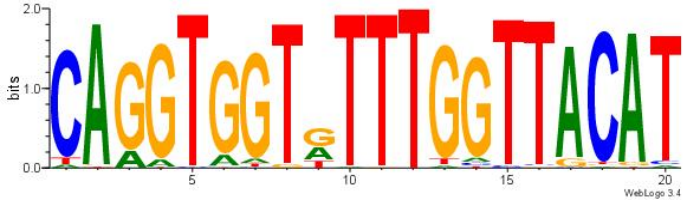

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140311

Alignment:
GTTATTAATTGGCCTAATTT
ATTCAASATGAGATTTGGG-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

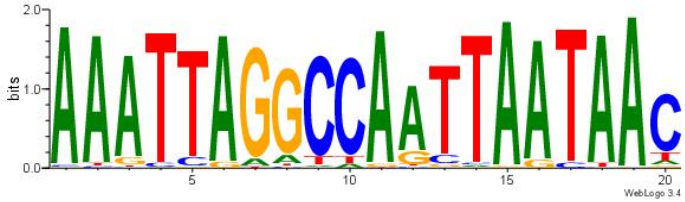

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.140458

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-ATTCAASATGAGATTTGGG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

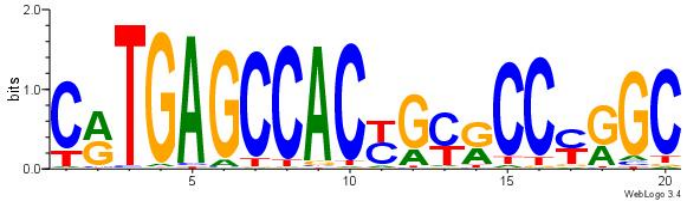

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

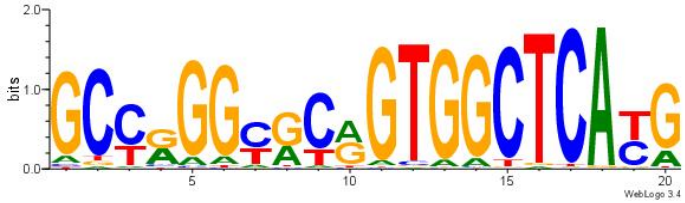

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140972

Alignment:

```
GCCGTTTKTTAAGCCCGTY
CCCAAATCTCATSTTGAAT
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

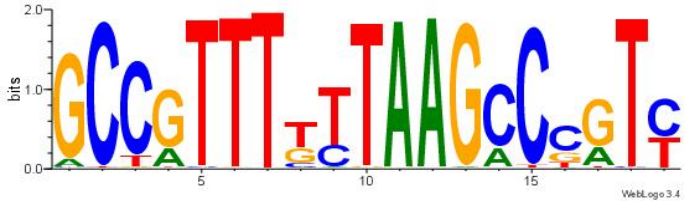

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

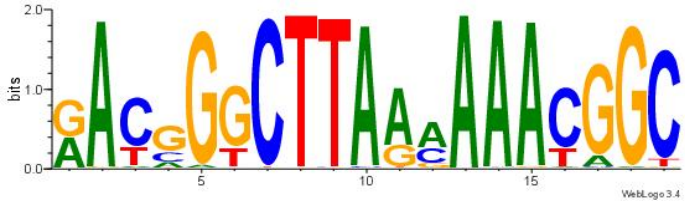

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.141059

Alignment:
AGTAGGTGCTCARTAAATRB
-CCCAAATCTCATSTTGAAT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

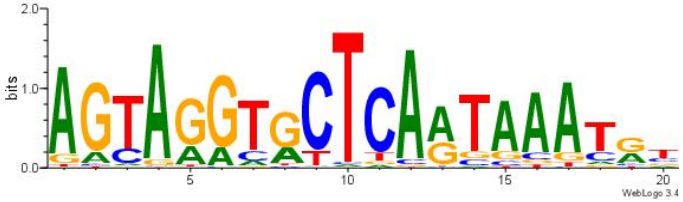

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

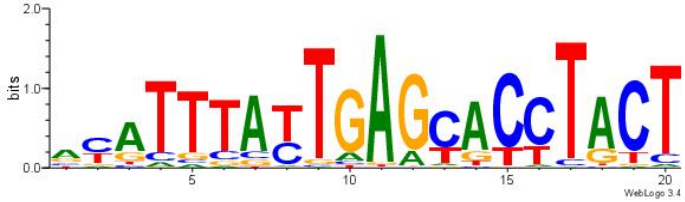

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.141109

Alignment:
TGTGTGTGTGTKTGTGTGT
ATTCAASATGAGATTTGGG

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

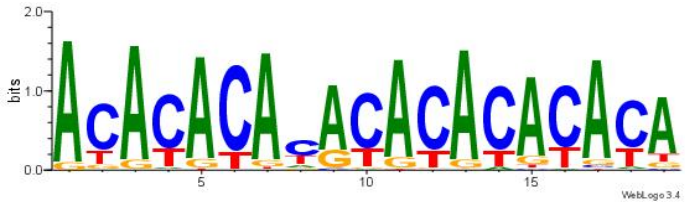

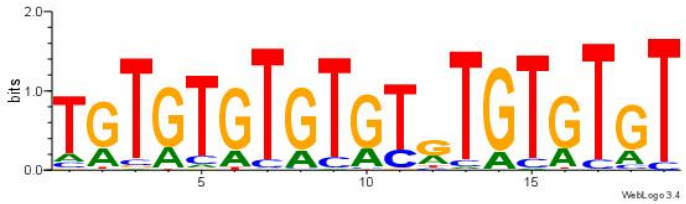

Dataset #: 1 **Motif ID: 228** **Motif name: Motif 228**

Original motif Consensus sequence: AGCTACTTG

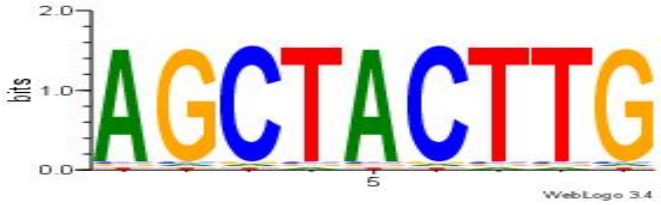

Reverse complement motif Consensus sequence: CAAGTAGCT

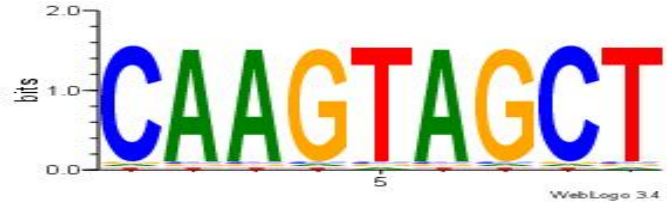

Best Matches for Motif ID 228 (Highest to Lowest)

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0385506

Alignment:

```
CAGCTACTCKTATACCCTTG
----------AGCTACTTG-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

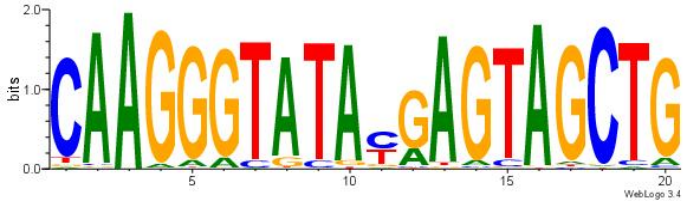

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

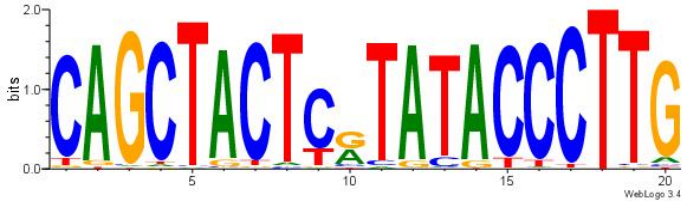

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0563554

Alignment:

```
MGAAGGGACTTGCCTTGT
---AGCTACTTG------
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

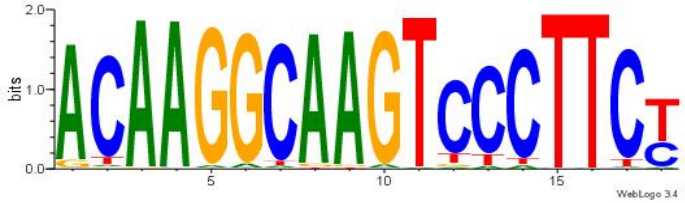

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

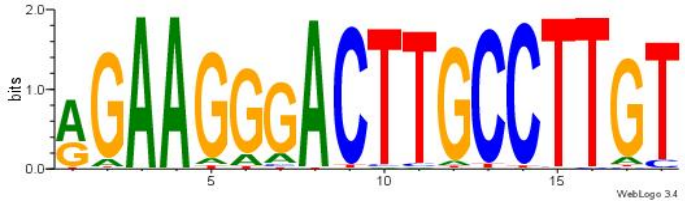

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0620324

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
------AGCTACTTG-----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

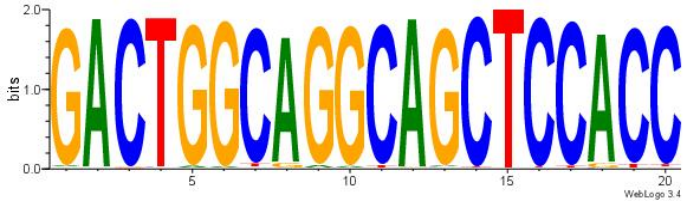

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

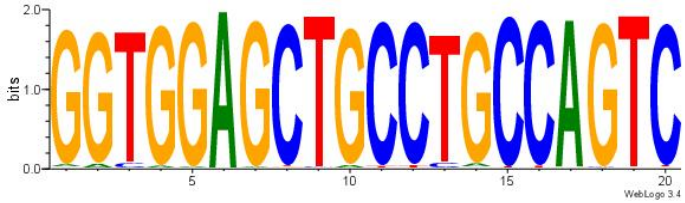

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 9
Similarity score: 0.0633451

Alignment:
AGCGACATGTGC
AGCTACTTG---

Original motif Consensus sequence: AGCGACATGTGC

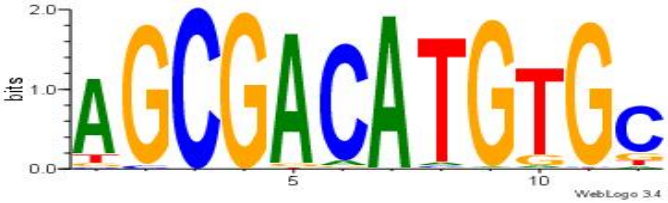

Reverse complement motif Consensus sequence: GCACATGTCGCT

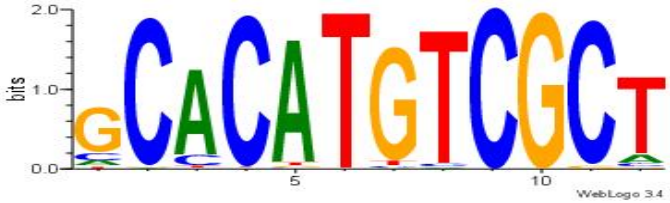

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 9
Similarity score: 0.0713836

Alignment:
AGCAGYTTGGAAACACT
AGCTACTTG--------

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

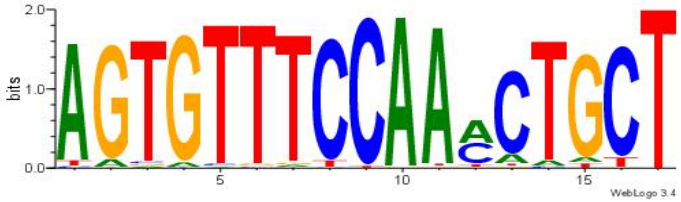

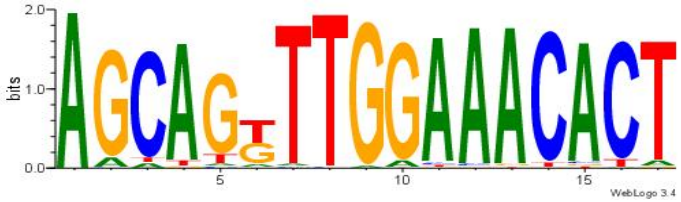

Dataset #:	1
Motif ID:	71
Motif name:	Motif 71
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0757575

Alignment:

```
AGCACTTTG
AGCTACTTG
```

Original motif Consensus sequence: AGCACTTTG

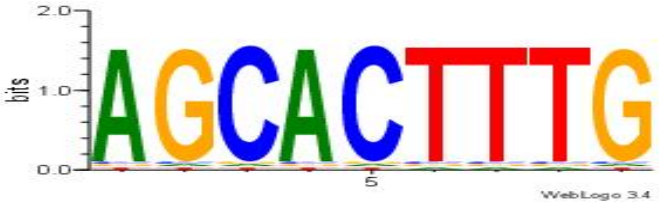

Reverse complement motif Consensus sequence: CAAAGTGCT

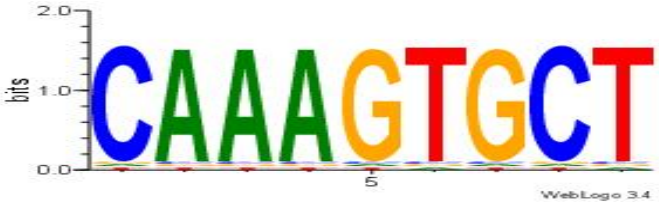

Dataset #:	1
Motif ID:	75

Motif name:	Motif 75
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0781249

Alignment:

```
CATGGAGCGGKK
---CAAGTAGCT
```

Original motif Consensus sequence: CATGGAGCGGKK

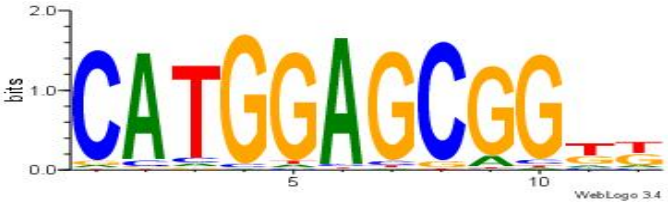

Reverse complement motif Consensus sequence: RRCCGCTCCATG

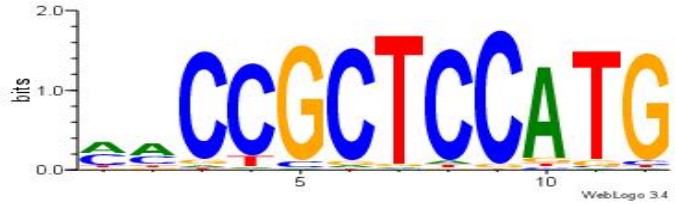

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0786131

Alignment:
ATGGACAYTTRGGTTGHTTC
------CAAGTAGCT-----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

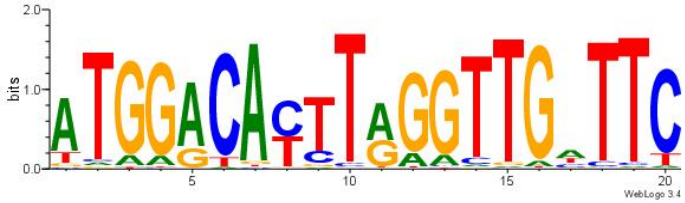

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

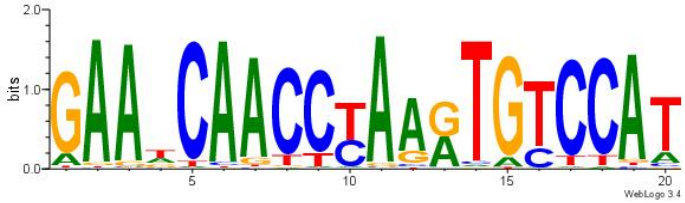

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0793227

Alignment:
AWTKKTGGTTKCCAGKGGCT
-----------CAAGTAGCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

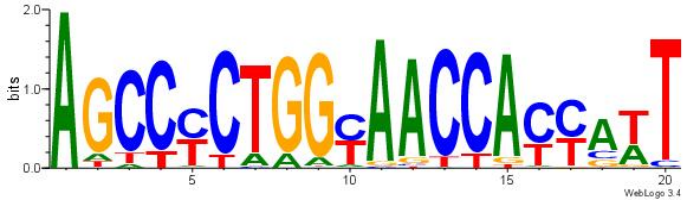

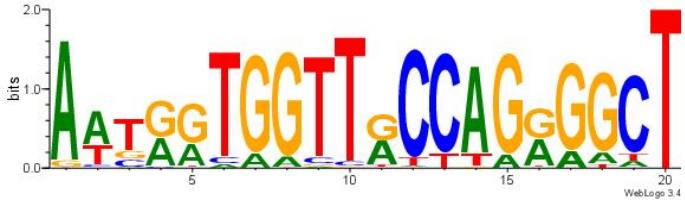

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0799348

Alignment:

```
TGGCTTCACCCAGTGGATCC
---------CAAGTAGCT--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

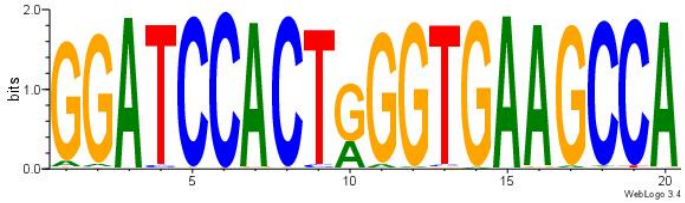

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

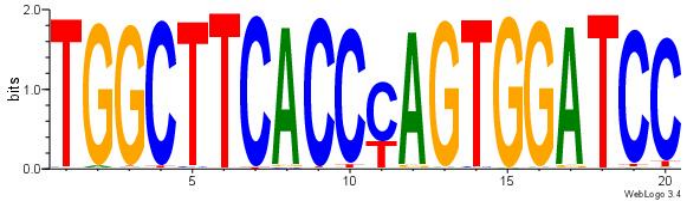

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0804736

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-----------CAAGTAGCT
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

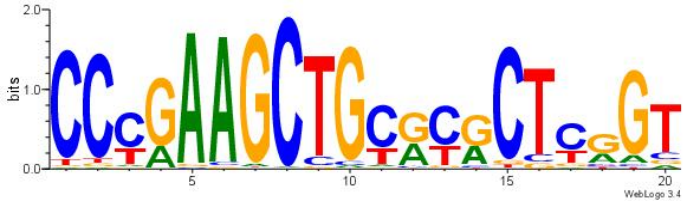

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

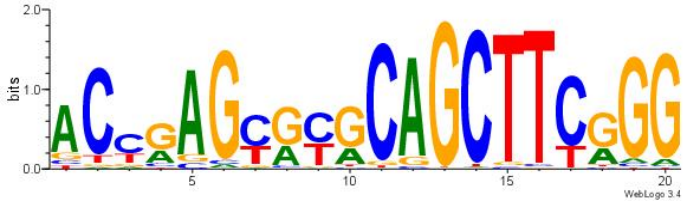

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9

Similarity score: 0.0807643

Alignment:
GAAACTGCTTTGTGATGTGT
---------AGCTACTTG--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

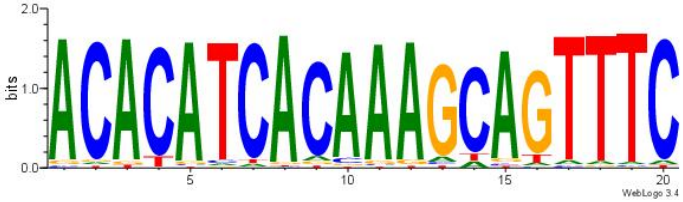

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

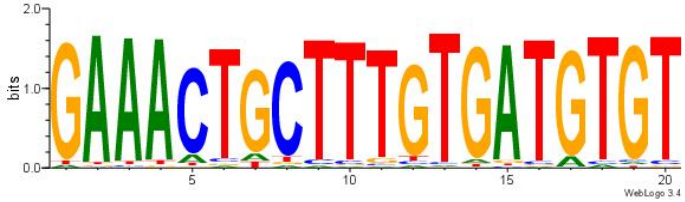

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0834124

Alignment:
GAATACCTCCTGAAGGACCT
-----------CAAGTAGCT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

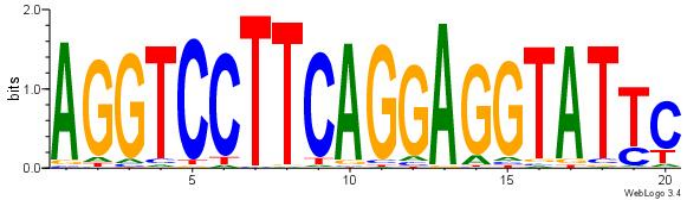

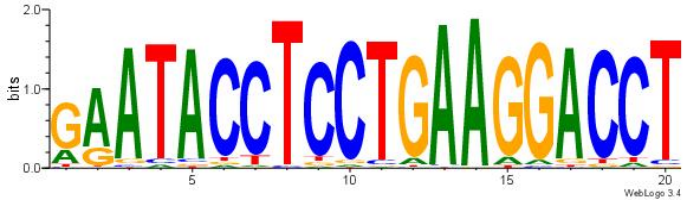

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0838445

Alignment:

```
AAGTTCTKGGKTACATGTGC
---AGCTACTTG--------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

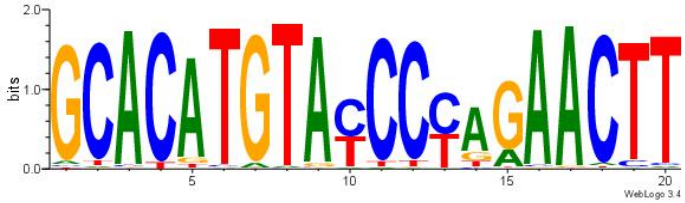

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

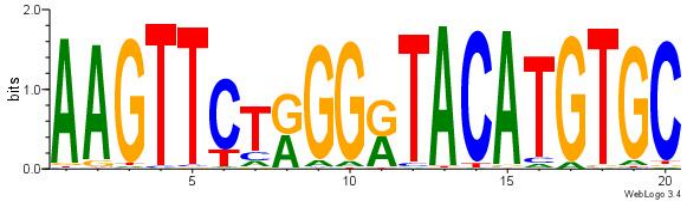

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0840564

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
----------CAAGTAGCT-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

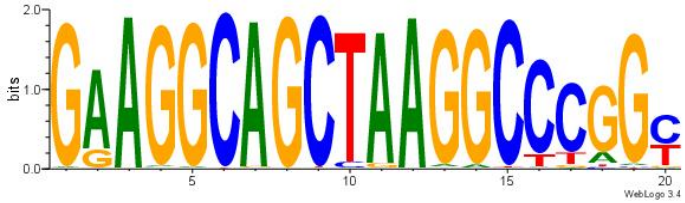

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

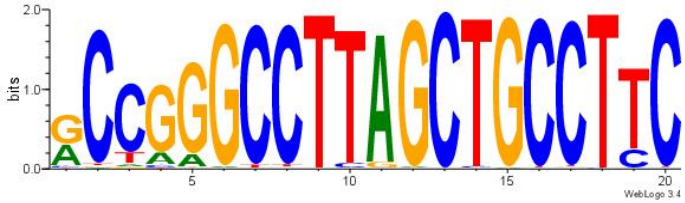

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9

Similarity score: 0.084857

Alignment:
ATCRCTTGAGSYCAGGAGKT
CAAGTAGCT----------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

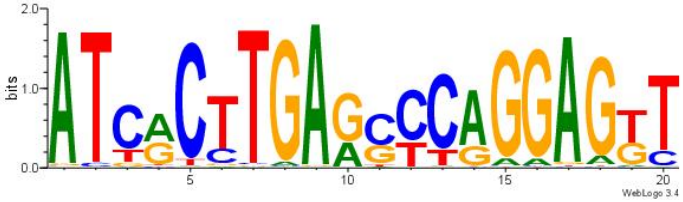

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

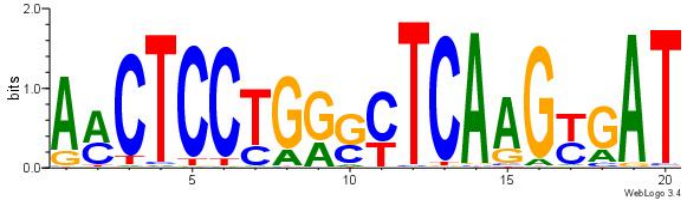

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 12
Number of overlap: 9
Similarity score: 0.0852767

Alignment:
GCCTCCTTGAGCTGTGGTGG
AGCTACTTG----------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

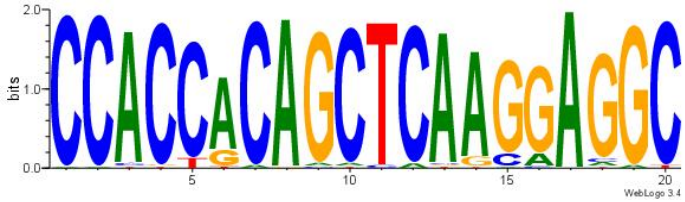

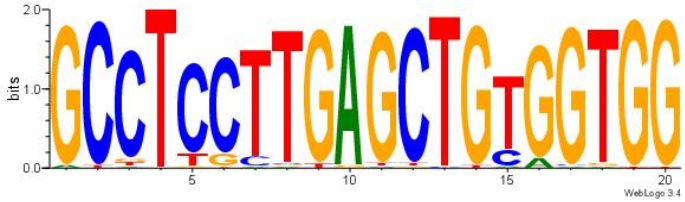

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0860042

Alignment:

```
CATTTGGGAGCCCATTGA
--------AGCTACTTG-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

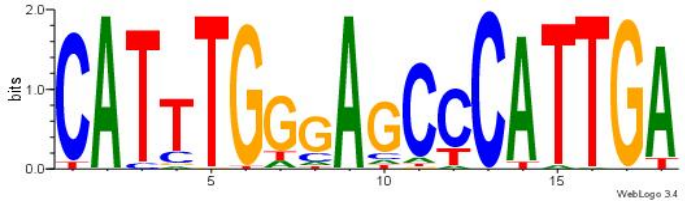

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

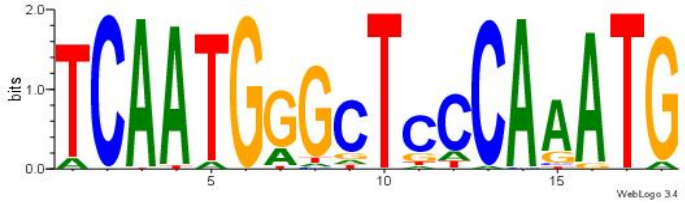

Dataset #: 1

Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0863571

Alignment:

```
CAMTTAGCATAATG
CAAGTAGCT-----
```

Original motif Consensus sequence: CATTATGCTAARTG

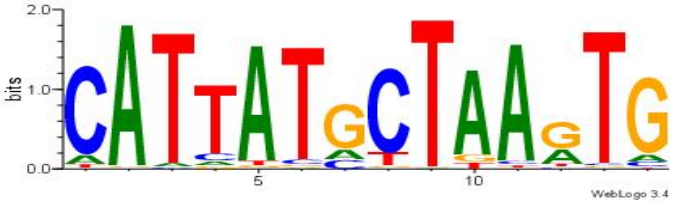

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

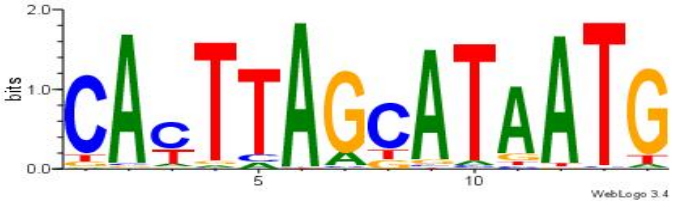

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	9
Similarity score:	0.0863674

Alignment:
TAGATAATAGCTCCAGCTTT
-AGCTACTTG----------

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

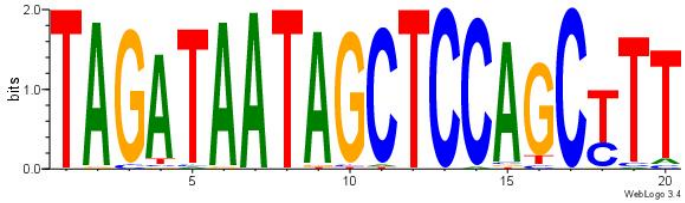

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

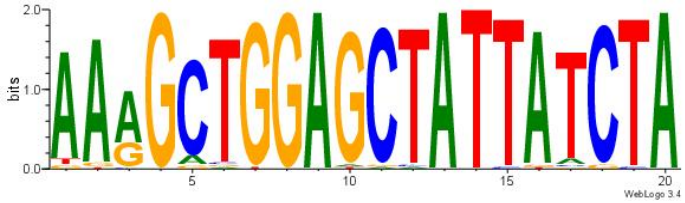

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0870243

Alignment:
CAAGTTGACACATAAAATTA
CAAGTAGCT-----------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

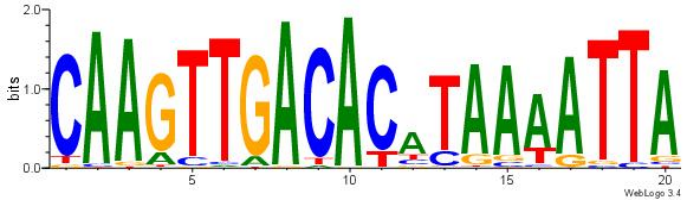

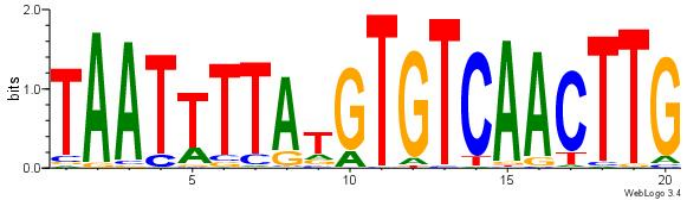

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0878378

Alignment:

```
TTGGAGGTTCTAGCAGGG
----AGCTACTTG-----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

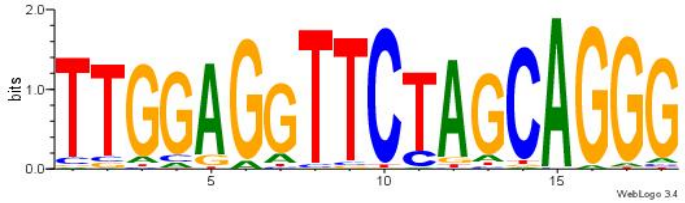

Dataset #:	1

Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0878699

Alignment:

```
GGTGGGAGAAATACCT
-------CAAGTAGCT
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

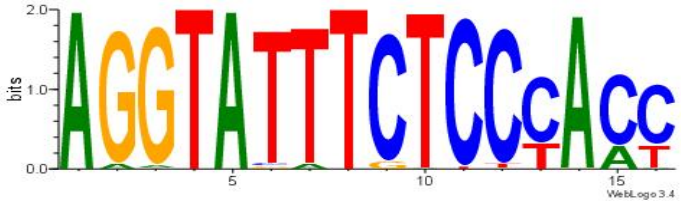

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

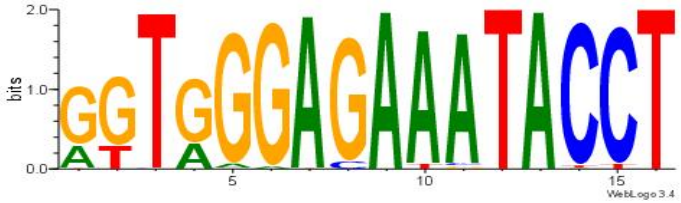

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9

Similarity score: 0.0882634

Alignment:
CTACATGGACCTT
---CAAGTAGCT-

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

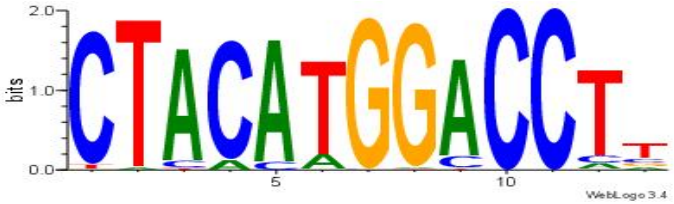

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.08827

Alignment:
AGCTCCCAGCGTGAGCGACG
AGCTACTTG----------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

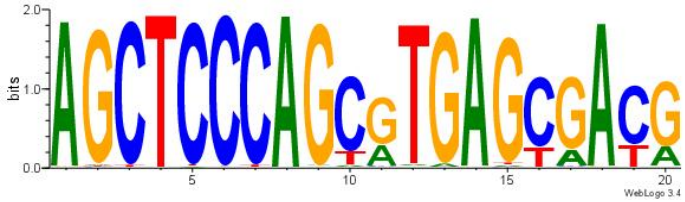

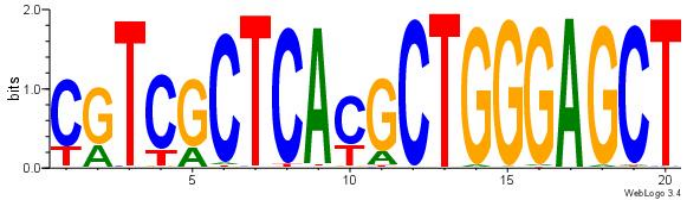

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0885419

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-------CAAGTAGCT----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

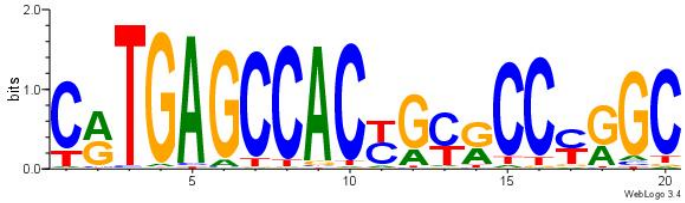

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

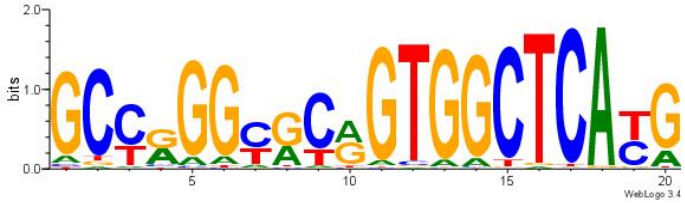

Dataset #: 1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0894829

Alignment:

```
ATAAAAACTTGCTGGTTTT
----CAAGTAGCT------
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

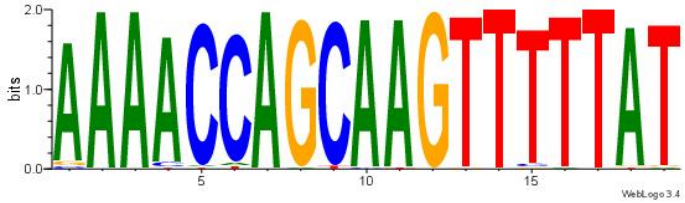

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

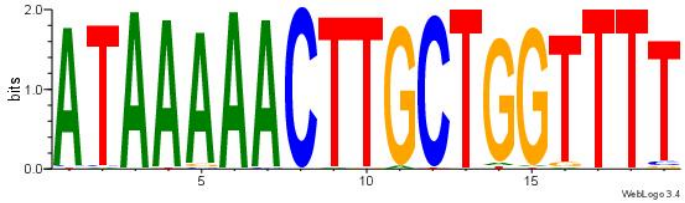

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9

Similarity score: 0.0903925

Alignment:
CAGGCGGCTGGGAG
CAAGTAGCT-----

Original motif Consensus sequence: CAGGCGGCTGGGAG

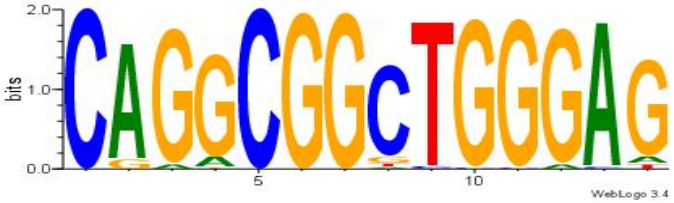

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

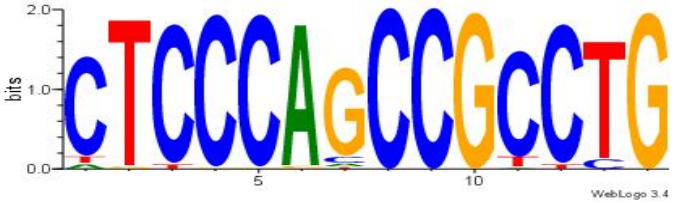

Dataset #: 1
Motif ID: 297
Motif name: Motif 297
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0907688

Alignment:
ACCAATCAGCA
--CAAGTAGCT

Original motif Consensus sequence: ACCAATCAGCA

Reverse complement motif Consensus sequence: TGCTGATTGGT

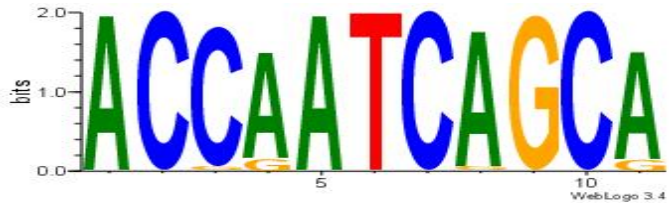

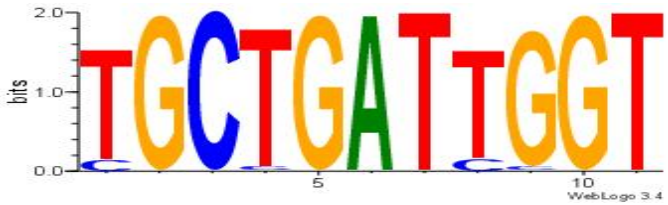

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0911079

Alignment:

```
ACACCTATTCGCACAC
--AGCTACTTG-----
```

Original motif Consensus sequence: ACACCTATTCGCACAC

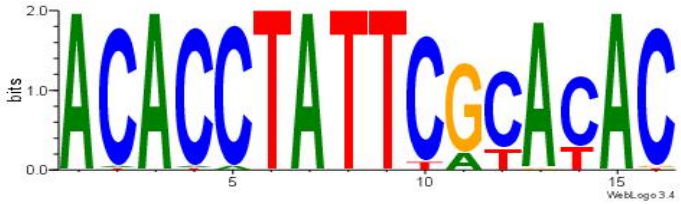

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

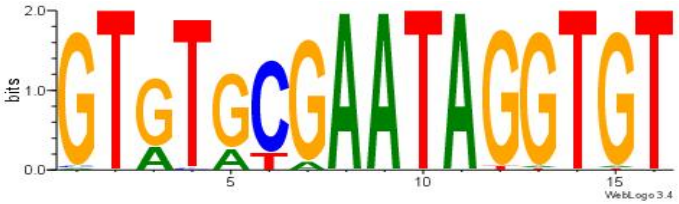

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0944649

Alignment:

```
KKCACCTTGATCTTGGACTT
-----------AGCTACTTG
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

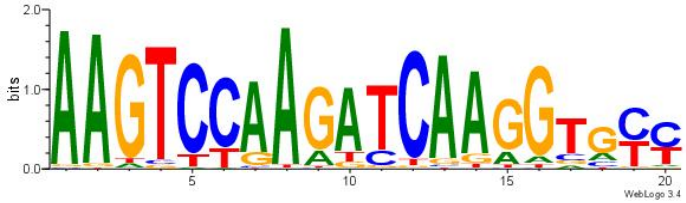

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

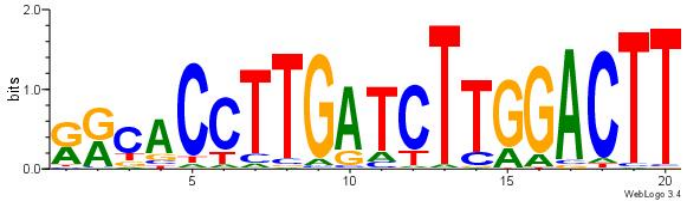

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9

Similarity score: 0.0960842

Alignment:
GAAAGGGAACTCCCTGACCC
-------AGCTACTTG----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

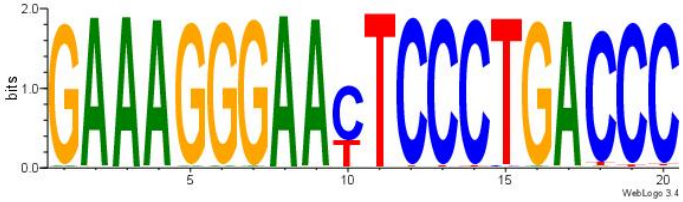

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

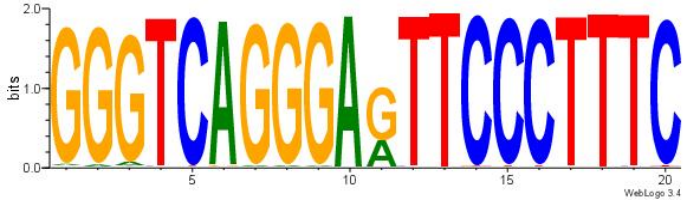

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 9
Similarity score: 0.0966424

Alignment:
CGAGCCTCCCCGAYGAGCGC
-CAAGTAGCT----------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

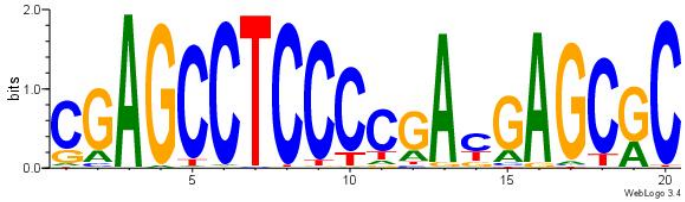

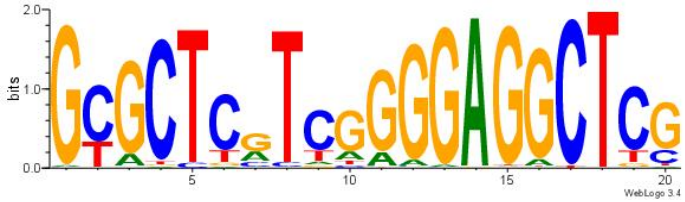

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0970446

Alignment:

```
CACCAGGAGATTATATCCCR
---------CAAGTAGCT--
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

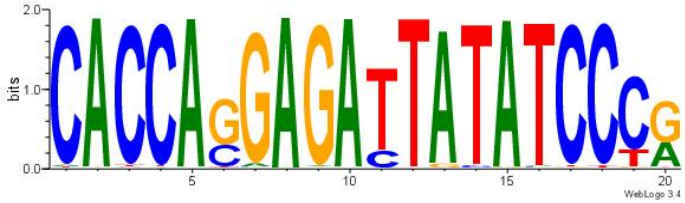

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

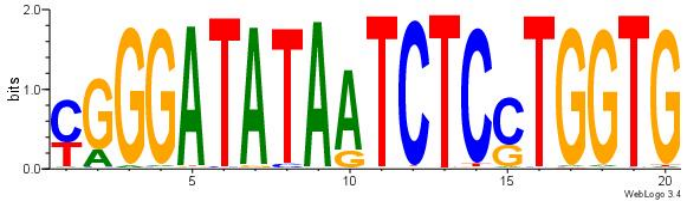

Dataset #: 1

Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.098102

Alignment:

```
TCTCAAGTCCAT
---CAAGTAGCT
```

Original motif Consensus sequence: ATGGACTTGAGA

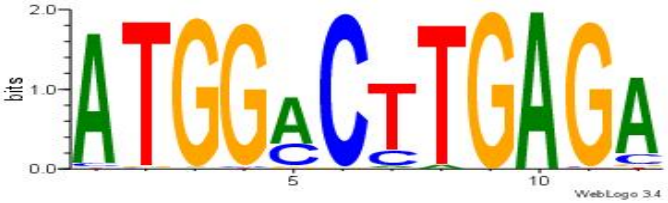

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

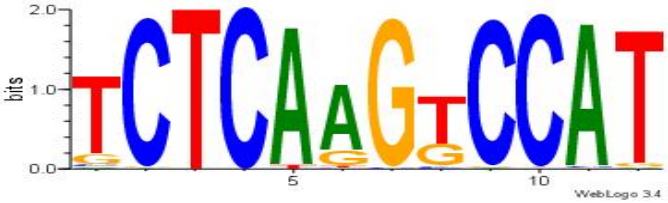

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0986582

Alignment:
GACATGAGCTGGCGCTTG
---------AGCTACTTG

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

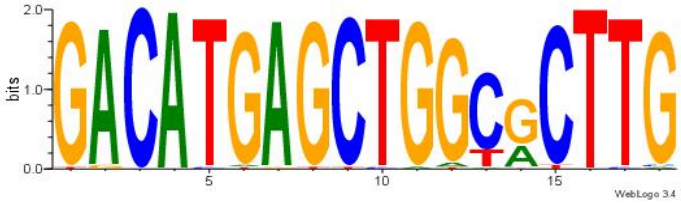

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

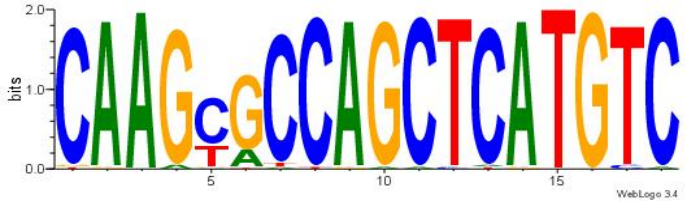

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.099006

Alignment:
AATCGCTTGAACC
AGCTACTTG----

Original motif Consensus sequence: AATCGCTTGAACC

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

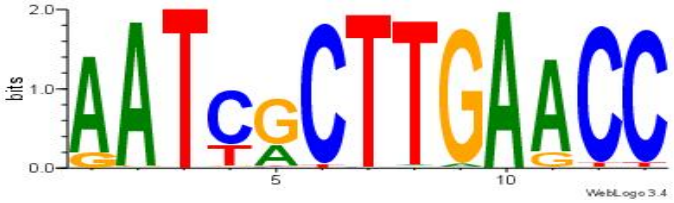

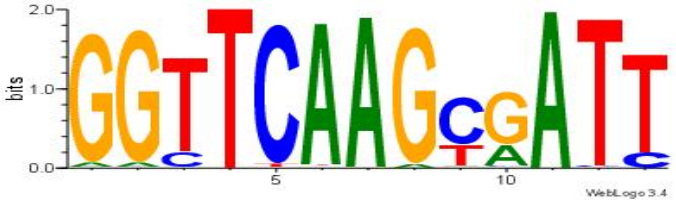

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.099471

Alignment:

```
GACCAMGAACCCA
-CAAGTAGCT---
```

Original motif Consensus sequence: GACCAMGAACCCA

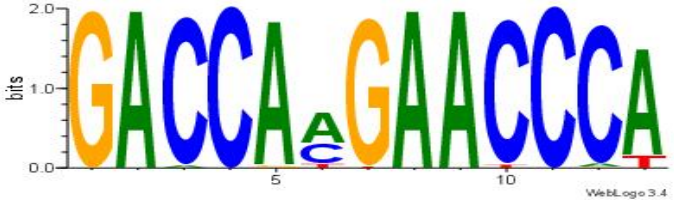

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

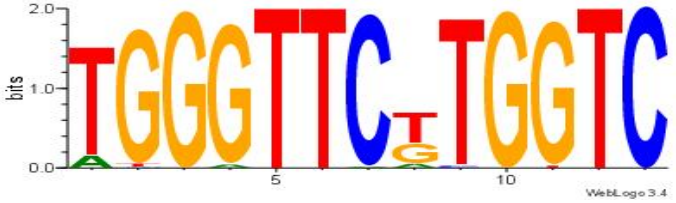

Dataset #:	1
Motif ID:	336

Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	9
Similarity score:	0.0998706

Alignment:

```
ATGTAACCAAAYACCACCTG
-----------AGCTACTTG
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

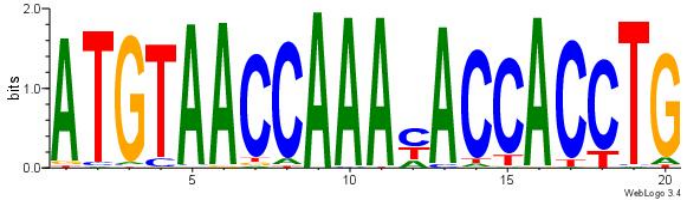

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

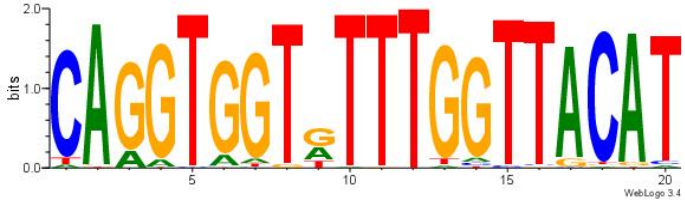

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.100017

Alignment:
GCACTCTGTMTCTAGCT
--------CAAGTAGCT

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

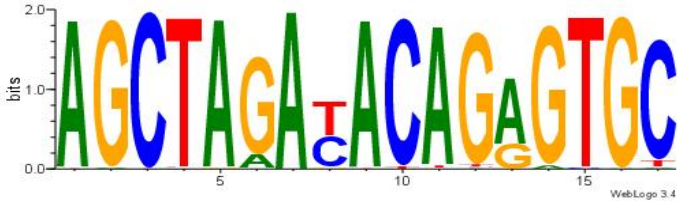

Reverse complement motif Consensus sequence:
GCACTCTGTMTCTAGCT

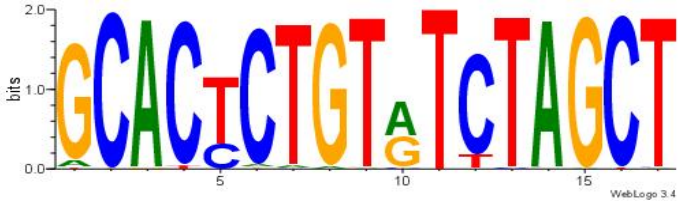

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.100373

Alignment:
AGGCCCCAGTGTSTGTTGTT
------CAAGTAGCT-----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

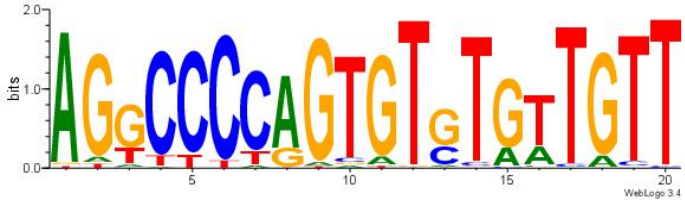

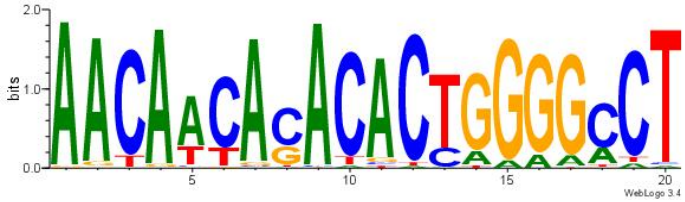

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.10101

Alignment:

```
CAAACTGCAAG
--AGCTACTTG
```

Original motif Consensus sequence: CAAACTGCAAG

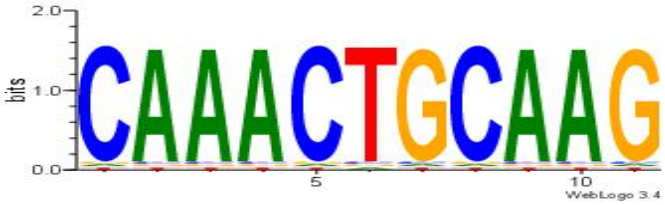

Reverse complement motif Consensus sequence: CTTGCAGTTTG

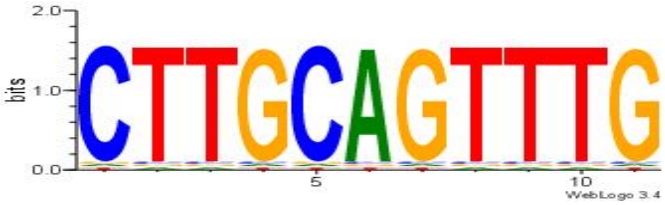

Dataset #:	1
Motif ID:	324

Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.10101

Alignment:

```
ACGCACCTGTA
AGCTACTTG--
```

Original motif Consensus sequence: ACGCACCTGTA

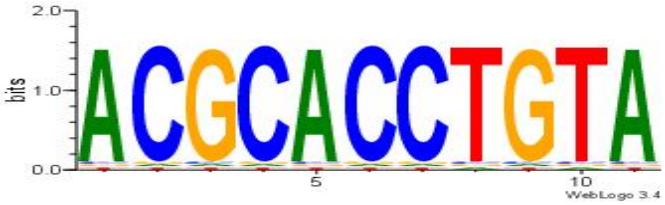

Reverse complement motif Consensus sequence: TACAGGTGCGT

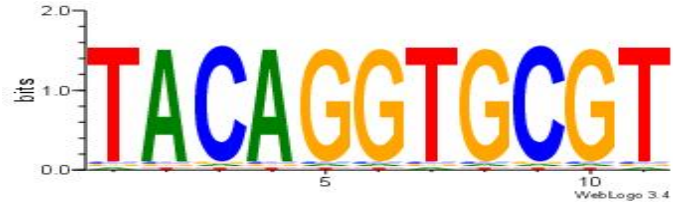

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.10101

Alignment:
CTCACCTCCTGC
---AGCTACTTG

Original motif Consensus sequence: CTCACCTCCTGC

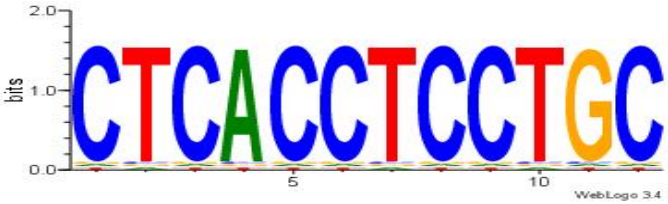

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

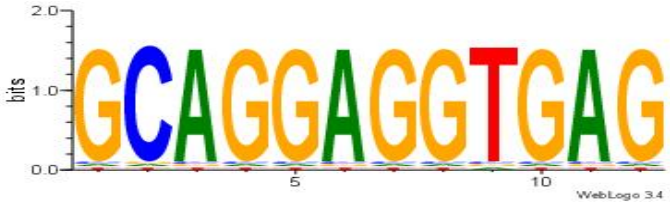

Dataset #:	1
Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.10101

Alignment:
CTCAGACTGCT
--CAAGTAGCT

Original motif Consensus sequence: AGCAGTCTGAG

Reverse complement motif Consensus sequence: CTCAGACTGCT

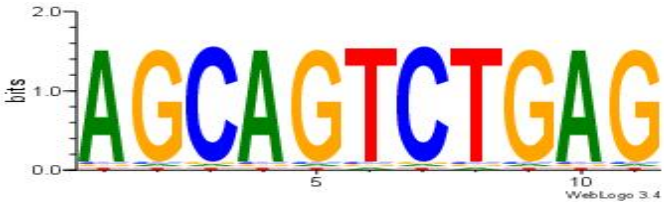

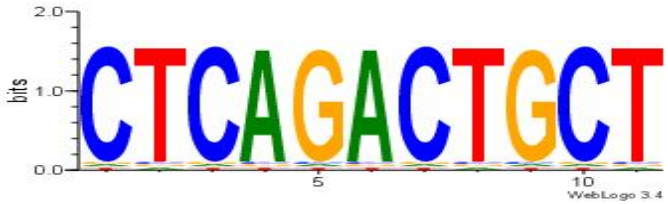

Dataset #:	1
Motif ID:	360
Motif name:	Motif 360
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.10101

Alignment:

```
CAATGGGGTG
CAAGTAGCT-
```

Original motif Consensus sequence: CAATGGGGTG

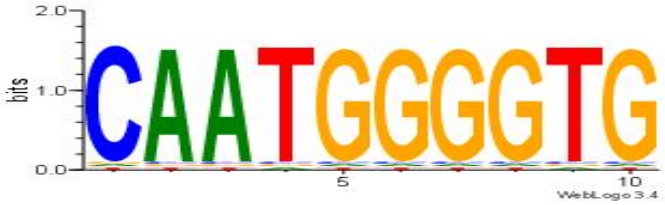

Reverse complement motif Consensus sequence: CACCCCATTG

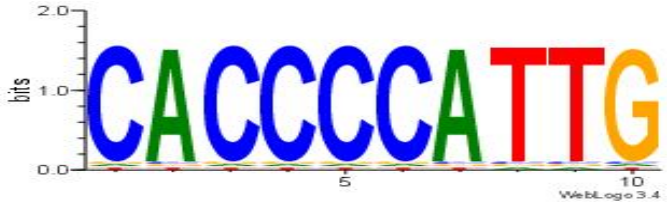

Dataset #:	1
Motif ID:	134

Motif name:	Motif 134
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.10101

Alignment:

```
TGCAGTTTG
AGCTACTTG
```

Original motif Consensus sequence: CAAACTGCA

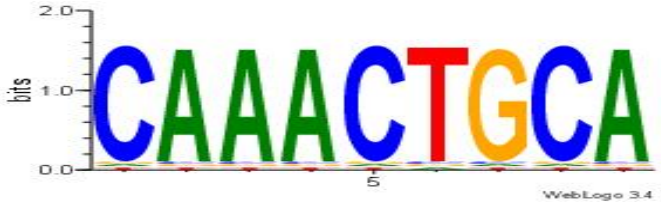

Reverse complement motif Consensus sequence: TGCAGTTTG

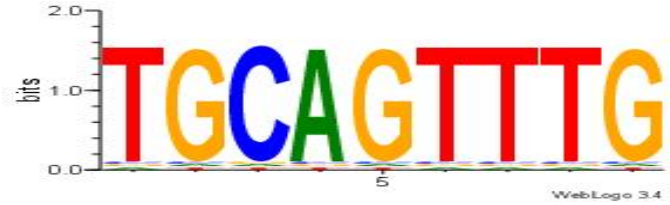

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.101466

Alignment:
CAACATGGATGRARCTGGAG
----CAAGTAGCT-------

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

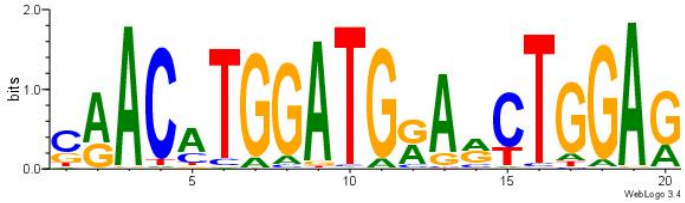

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

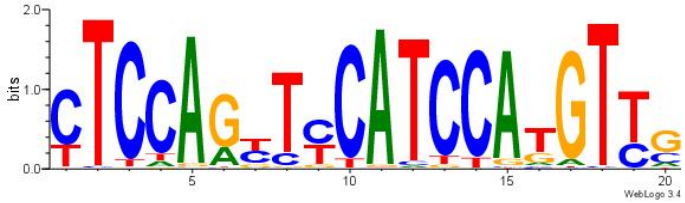

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.101588

Alignment:
GCGCACGGCGCGG
-CAAGTAGCT---

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

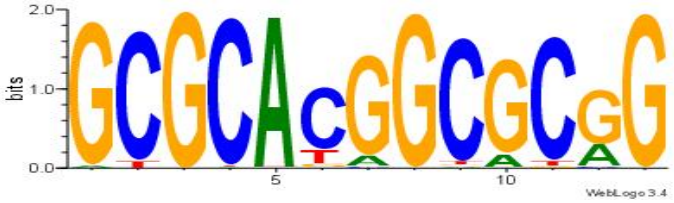

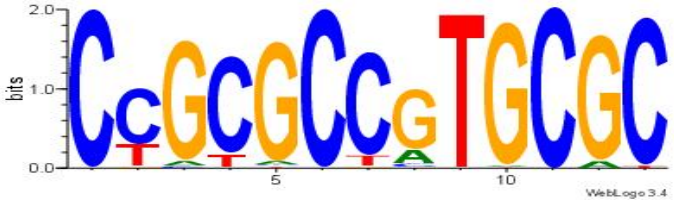

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.10165

Alignment:

```
CCGCACTCGGAGCRG
-CAAGTAGCT-----
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

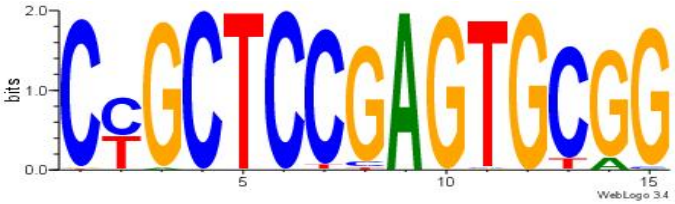

Dataset #: 1 Motif ID: 229 Motif name: Motif 229

Original motif Consensus sequence: GCCTTGCTGCCGC

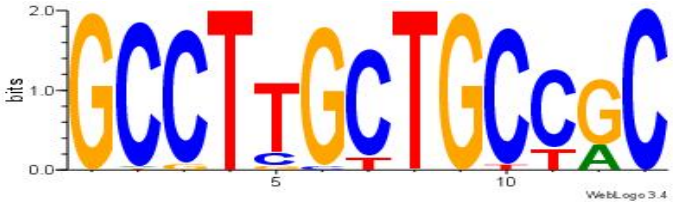

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

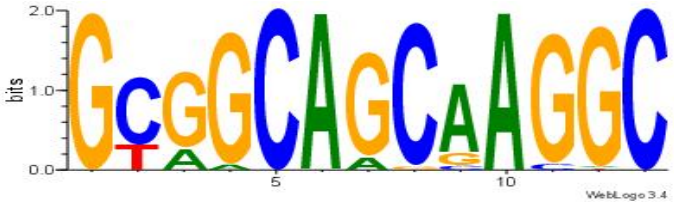

Best Matches for Motif ID 229 (Highest to Lowest)

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0380597

Alignment:

```
GCCTCACTGCCRC
GCCTTGCTGCCGC
```

Original motif Consensus sequence: GCCTCACTGCCRC

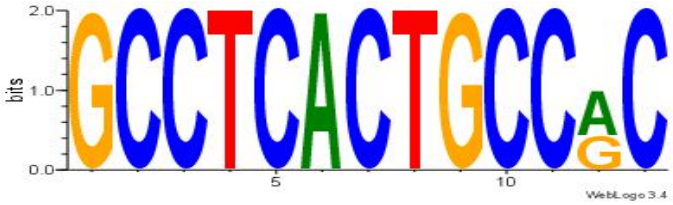

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

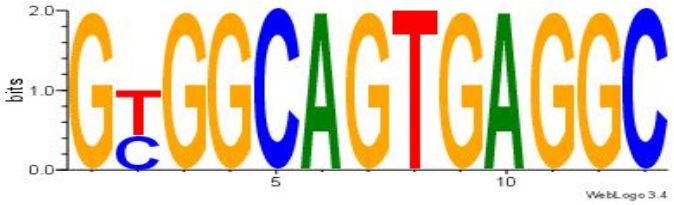

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0728792

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-GCGGCAGCAAGGC-----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

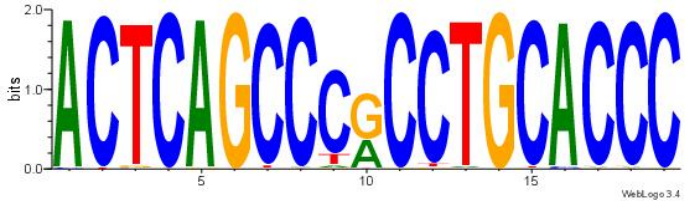

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

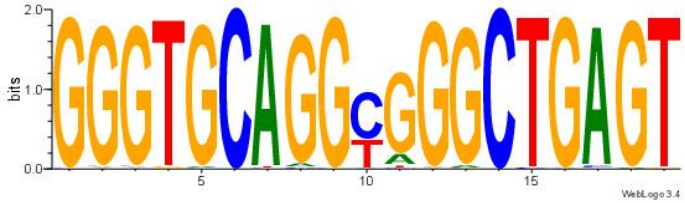

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.0799361

Alignment:
AGACAGTGGGYGCAGGHCA
-GCGGCAGCAAGGC-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

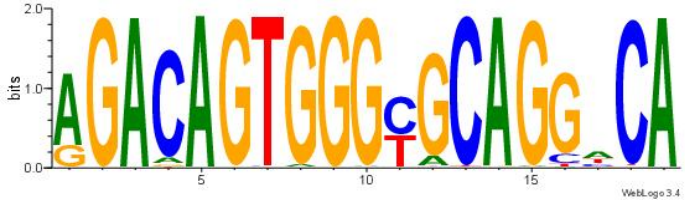

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

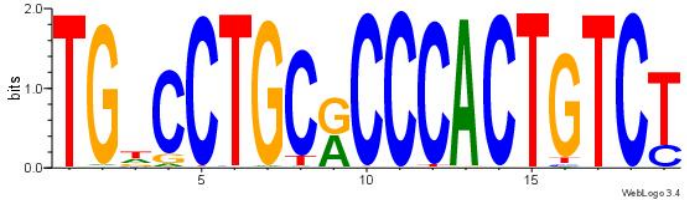

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0833059

Alignment:
AGCCCCGGTTCCCGCYCGC
--GCCTTGCTGCCGC----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

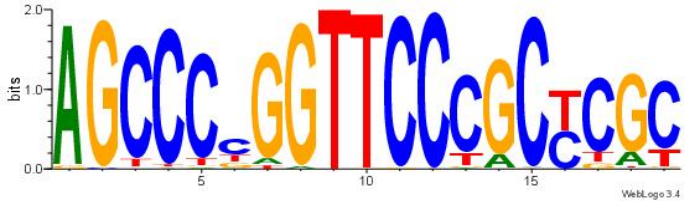

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

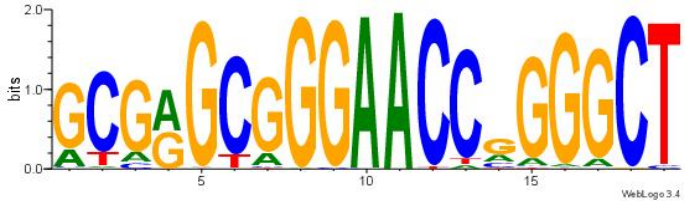

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0835602

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-GCCTTGCTGCCGC------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

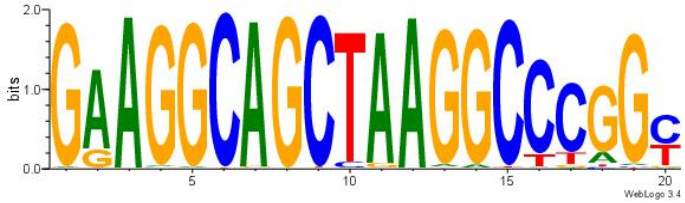

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

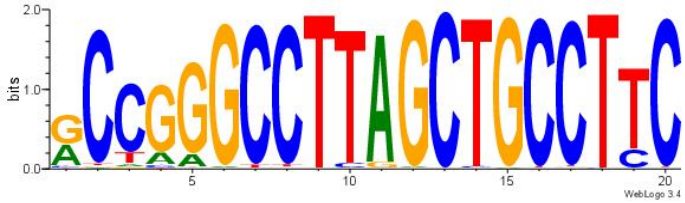

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0857618

Alignment:

```
GACCTGCAGCCCGCCATG
--GCGGCAGCAAGGC---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

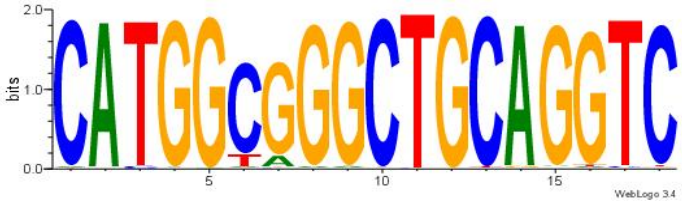

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

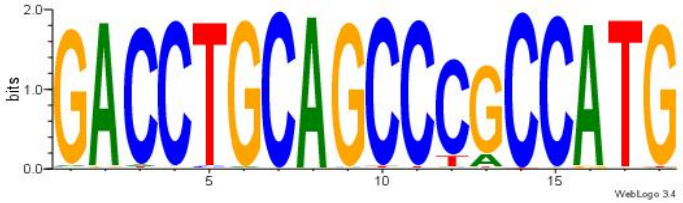

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0860472

Alignment:
CCCTCACTGCCCGGGG
GCCTTGCTGCCGC---

Original motif Consensus sequence: CCCTCACTGCCCGGGG

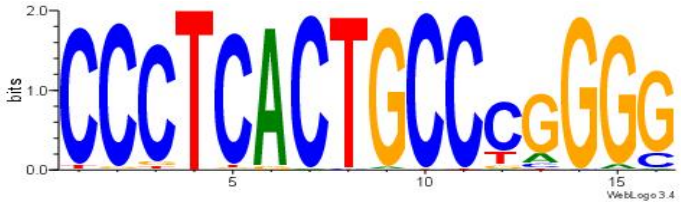

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

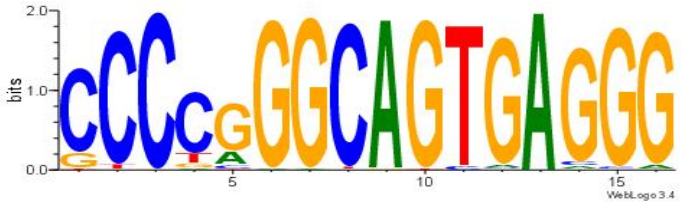

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0860949

Alignment:
TAAGTGGGAGCTAARC
GCGGCAGCAAGGC---

Original motif Consensus sequence: TAAGTGGGAGCTAARC

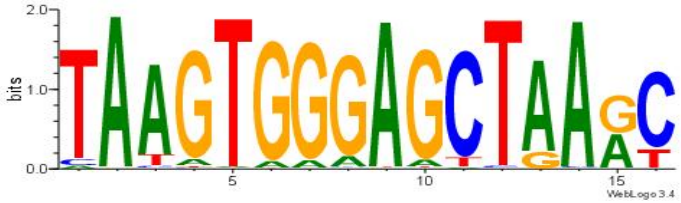

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

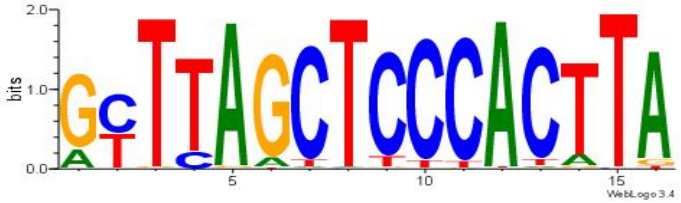

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0882707

Alignment:

```
GCTTAGCACCYGGGCCAGC
----GCGGCAGCAAGGC--
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

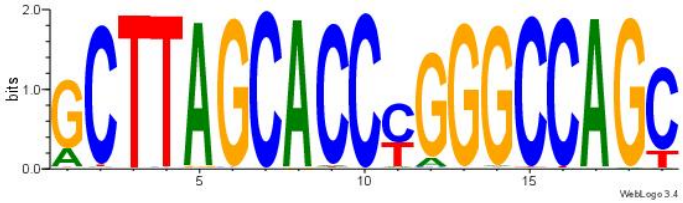

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

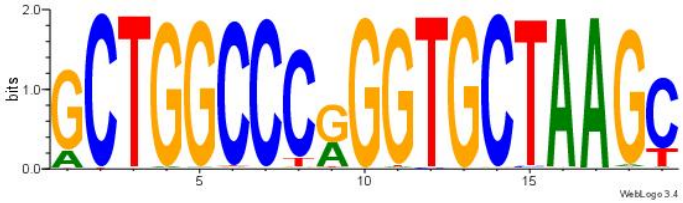

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0907677

Alignment:

```
HAGTGGKATTGCTGGATCAT
--GCCTTGCTGCCGC-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

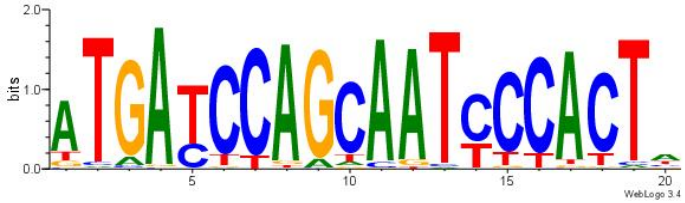

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

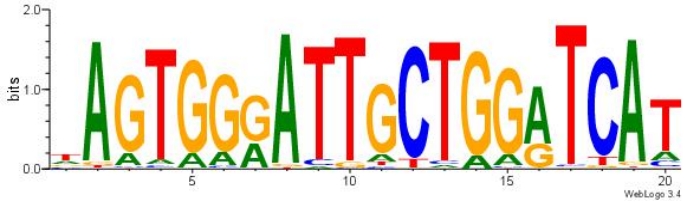

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0908788

Alignment:
TGCACTGCACCCAC
-GCCTTGCTGCCGC

Original motif Consensus sequence: TGCACTGCACCCAC

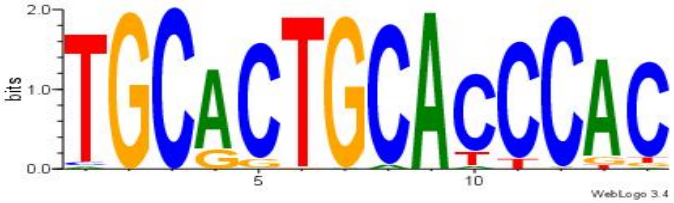

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

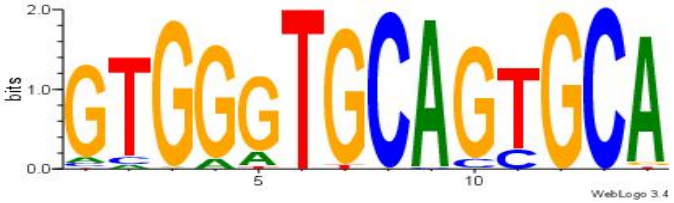

Dataset #: 1
Motif ID: 168
Motif name: Motif 168
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0926556

Alignment:
AGGTATTTCTCCCACC
--GCCTTGCTGCCGC-

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

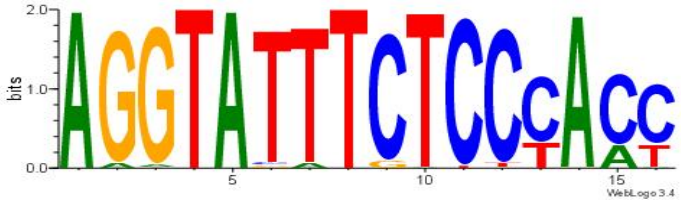

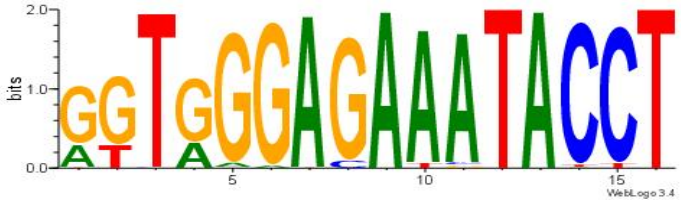

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0932499

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
---GCCTTGCTGCCGC----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

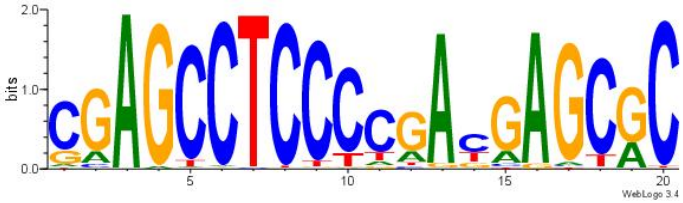

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

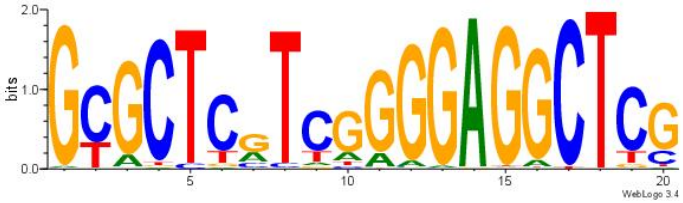

Dataset #:	1

Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0957297

Alignment:

```
GCGGCTGGCCGGGCG
GCGGCAGCAAGGC--
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

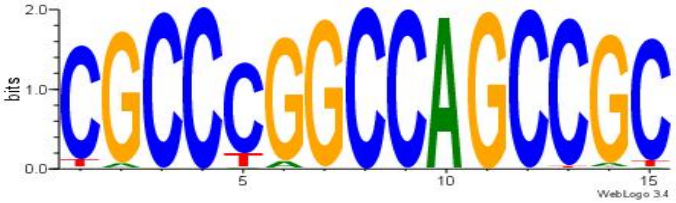

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

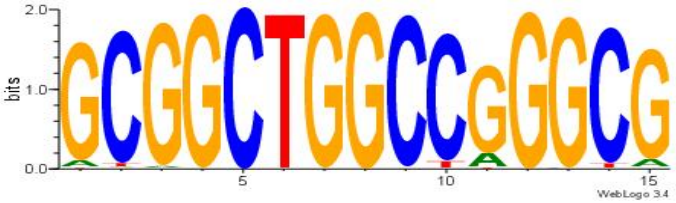

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.0958534

Alignment:
GGCACTGCTGGGGGACCCAG
------GCCTTGCTGCCGC-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

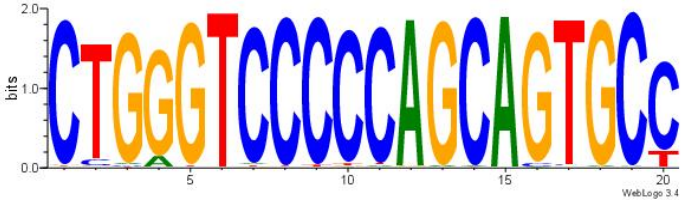

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

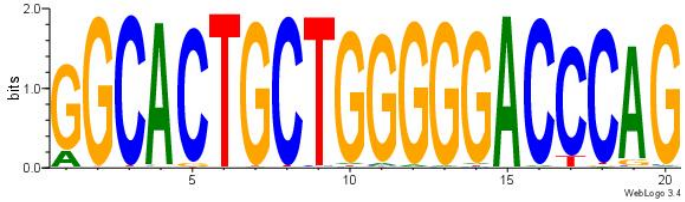

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0960168

Alignment:
MCCYGGCWSMGASGSTCCT
--GCGGCAGCAAGGC----

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

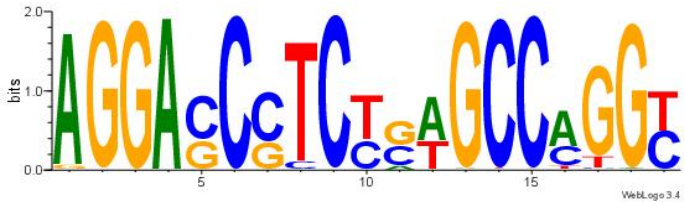

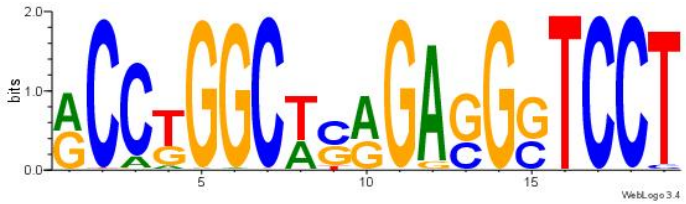

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.096839

Alignment:

```
CTCTTGTTGCCCAG
GCCTTGCTGCCGC-
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

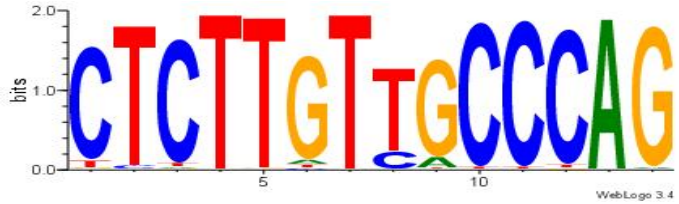

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

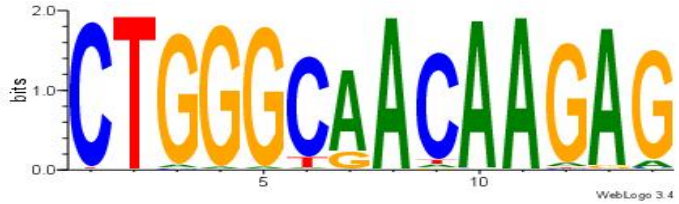

Dataset #:	1
Motif ID:	61

Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0970624

Alignment:

```
TGGCTTCACCCAGTGGATCC
--GCGGCAGCAAGGC-----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

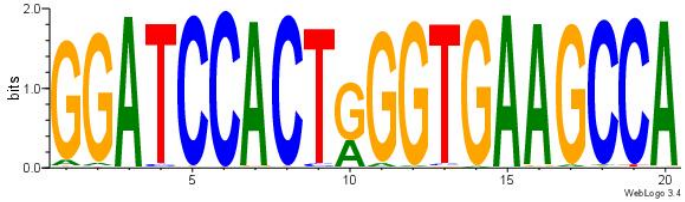

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

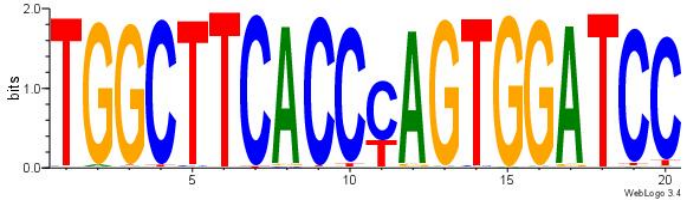

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.098093

Alignment:
AGGAGCCCCTCHGCCCR
----GCCTTGCTGCCGC

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

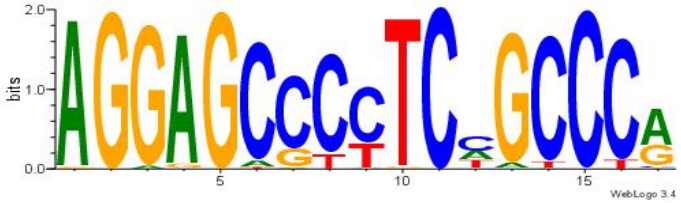

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0988856

Alignment:
AGGAGRCMCTCTGCCTGGC
------GCGGCAGCAAGGC

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

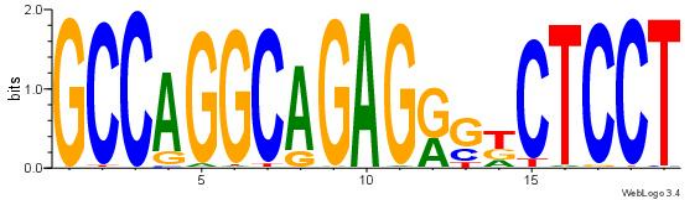

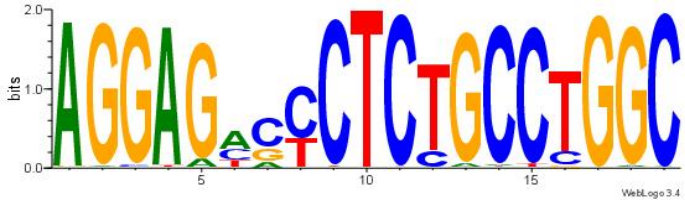

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.099724

Alignment:

```
CCTGCCATTGCYSAGGCTTG
----GCCTTGCTGCCGC---
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

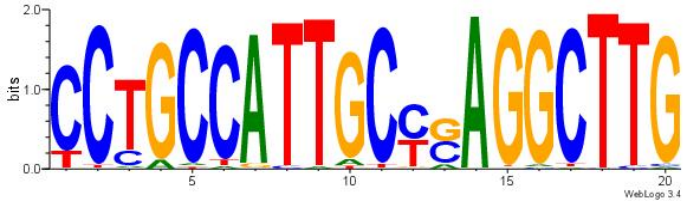

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

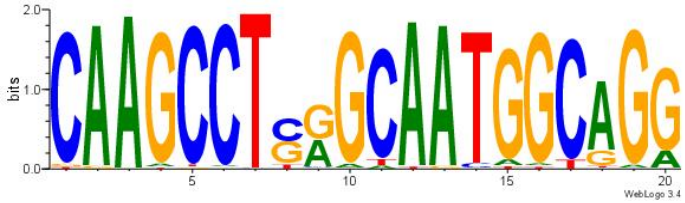

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.100305

Alignment:

```
GCCGGGRAGAGGCGCTCCT
GCGGCAGCAAGGC------
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

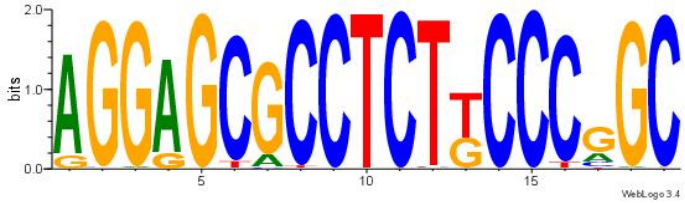

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

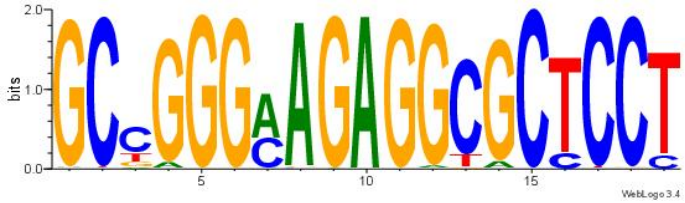

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.101694

Alignment:
GGAGCCGGCTCCCTCAGCTT
-----GCCTTGCTGCCGC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

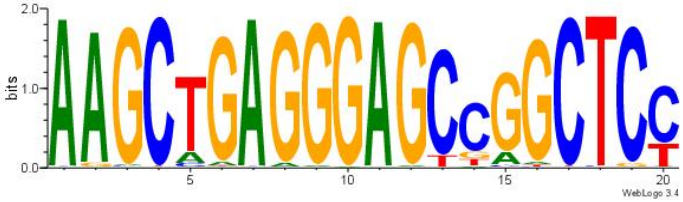

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

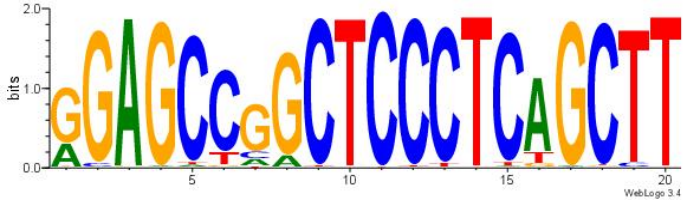

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.102275

Alignment:
AGGGCCTTTGCASWTGC
----GCCTTGCTGCCGC

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

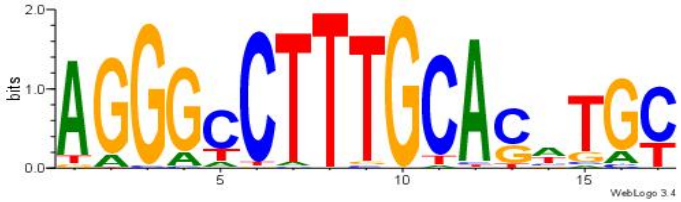

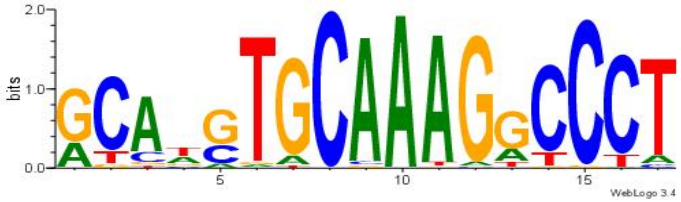

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.102628

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
------GCGGCAGCAAGGC-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

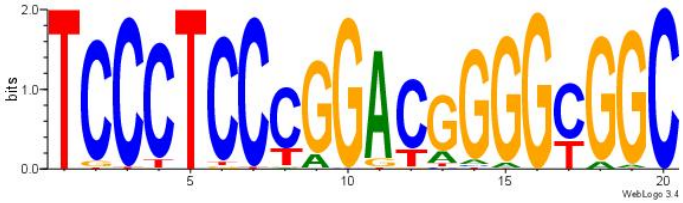

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

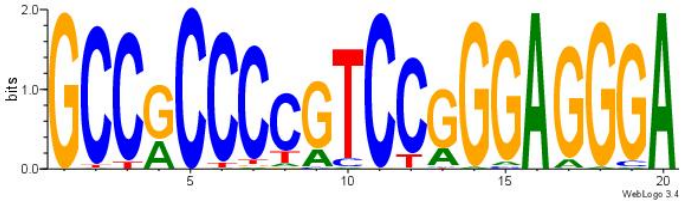

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.102842

Alignment:

```
GACTGGCAGGCAGCTCCACC
----GCCTTGCTGCCGC---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

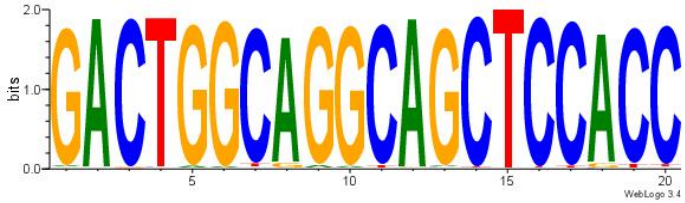

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

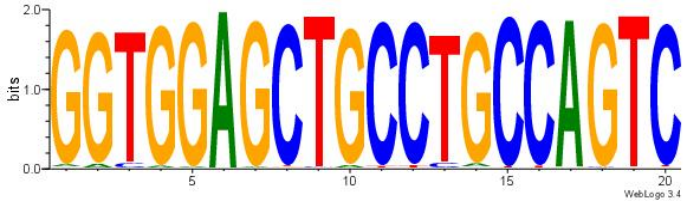

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.10419

Alignment:
GCTCCACCCAGTTCGAGCTT
GCGGCAGCAAGGC-------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

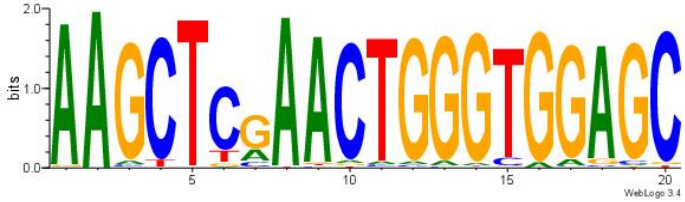

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

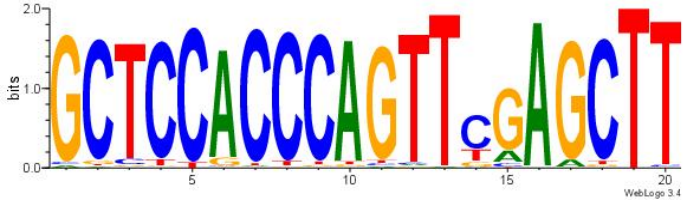

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.10448

Alignment:
GCAGCTTCACTCCTGA
---GCCTTGCTGCCGC

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

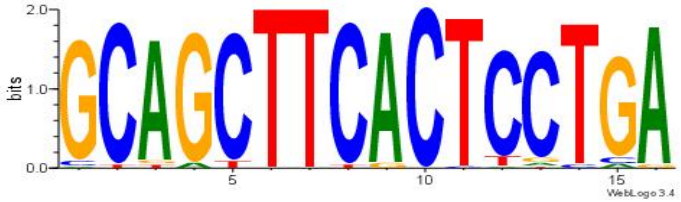

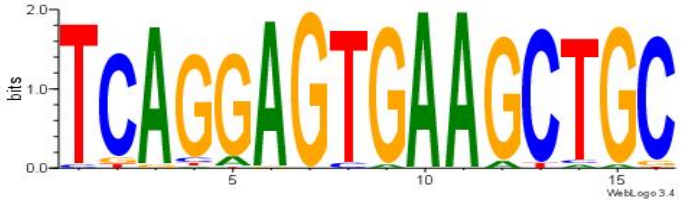

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.104613

Alignment:

```
ACTGTCTTCCACCTCCACAT
---GCCTTGCTGCCGC----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

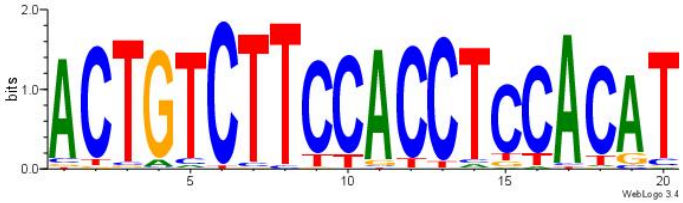

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

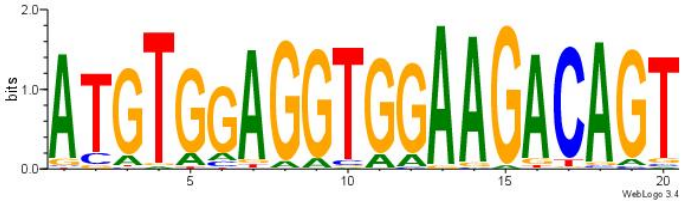

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.105726

Alignment:

```
GGGCTCCCACAGTGCAGCGG
--GCCTTGCTGCCGC-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

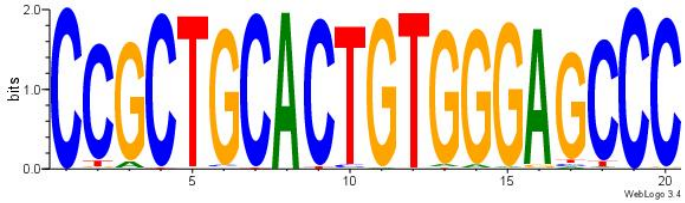

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

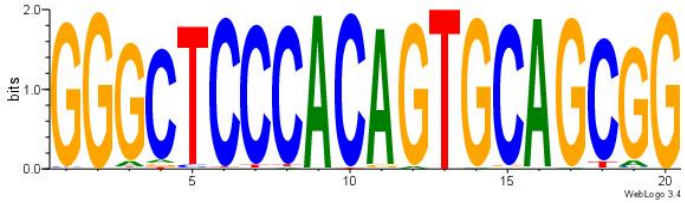

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.105744

Alignment:
AAAGCTGGAGCTATTATCTA
---GCGGCAGCAAGGC----

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

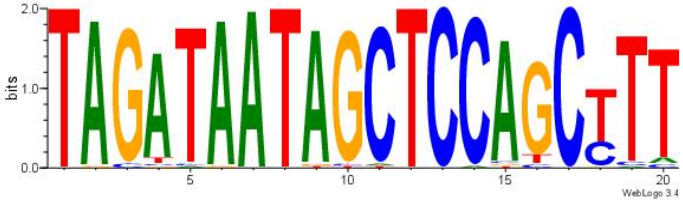

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

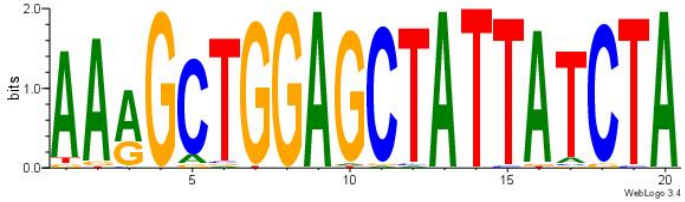

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.105745

Alignment:
GCTGGCCCGCAAGCGCCGCG
---GCCTTGCTGCCGC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

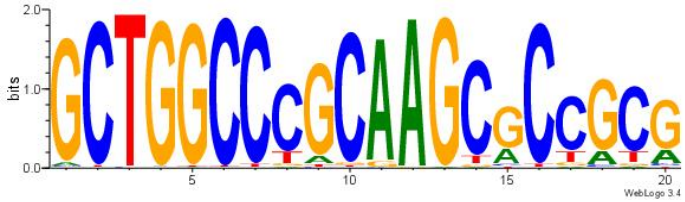

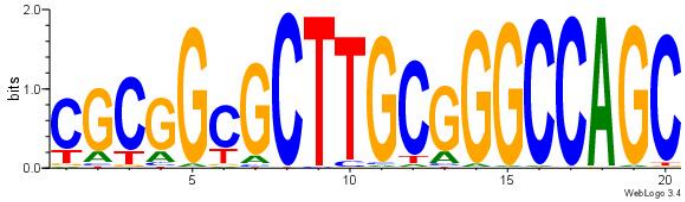

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.105752

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-GCGGCAGCAAGGC------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

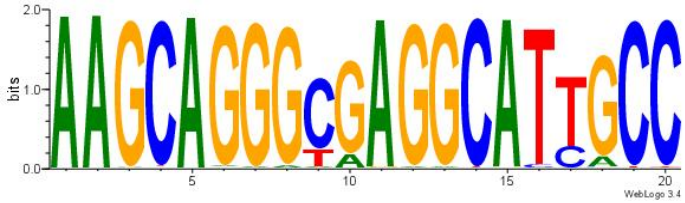

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

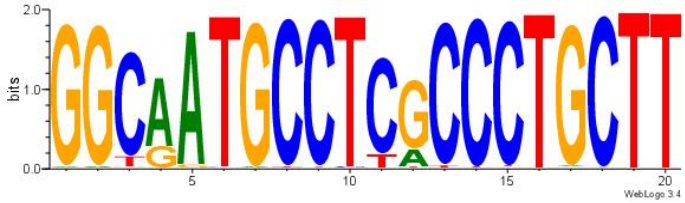

Dataset #:	1

Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.105881

Alignment:

```
CATCTGGCAGCCCA
-GCCTTGCTGCCGC
```

Original motif Consensus sequence: CATCTGGCAGCCCA

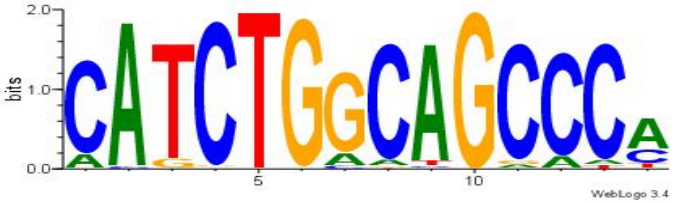

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

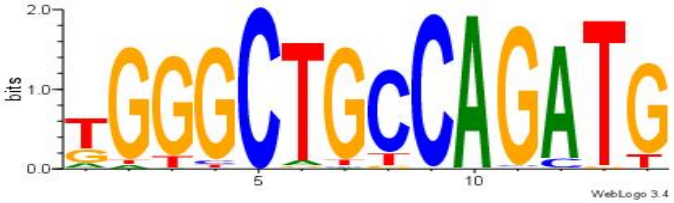

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106032

Alignment:
AAAACCAGCAAGTTTTTAT
-GCGGCAGCAAGGC-----

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

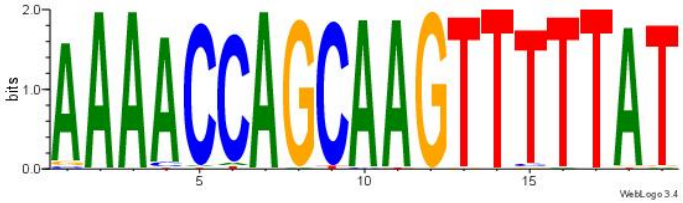

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

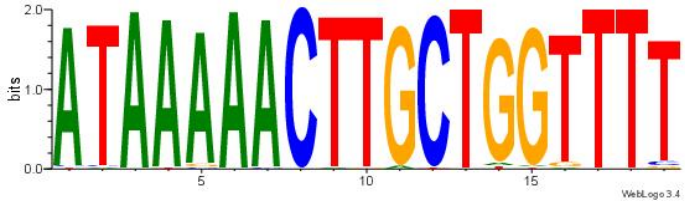

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.106332

Alignment:
AGAGCTCTGGCTGGCATCT
----GCCTTGCTGCCGC--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

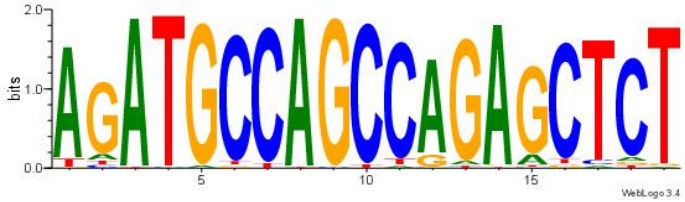

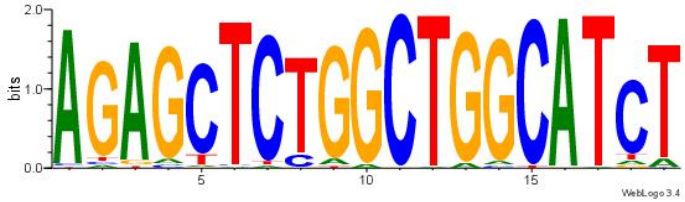

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.107102

Alignment:

```
GGTGGGGGGGTCAGCCCCC
---GCGGCAGCAAGGC---
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

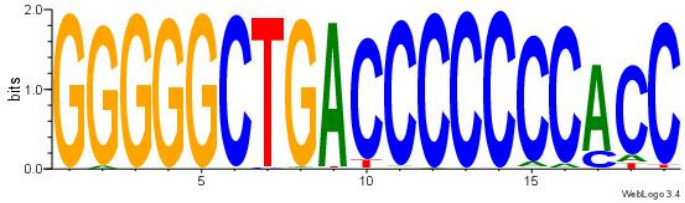

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

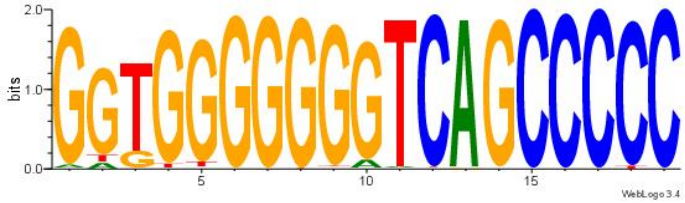

Dataset #: 1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.107951

Alignment:

```
GACATGAGCTGGCGCTTG
--GCCTTGCTGCCGC---
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

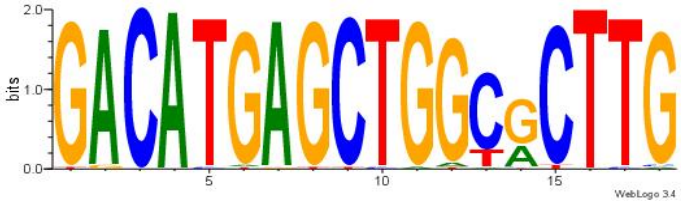

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

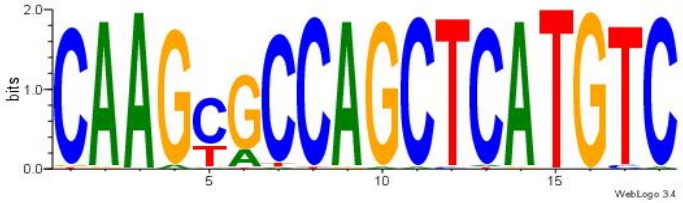

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.108282

Alignment:
MGTCTMKCTCTGTKGCCCAG
------GCCTTGCTGCCGC-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

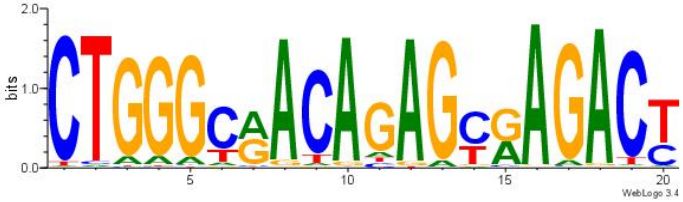

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

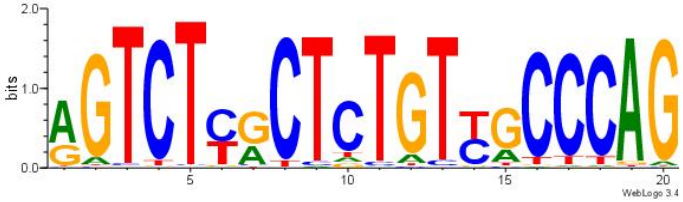

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.108573

Alignment:
GGGAGGTGTCTCCCAGTCAG
-----GCGGCAGCAAGGC--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

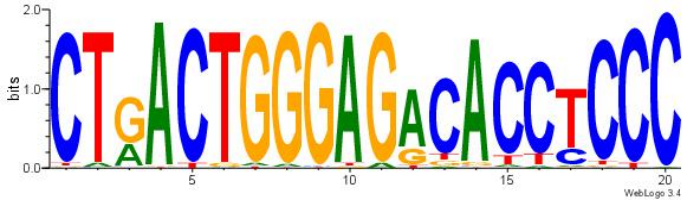

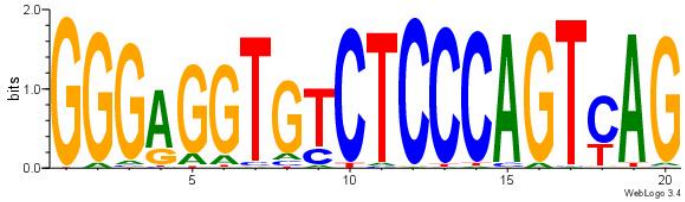

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.108693

Alignment:

```
AGACCAGCCTGGCCAAC
----GCGGCAGCAAGGC
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

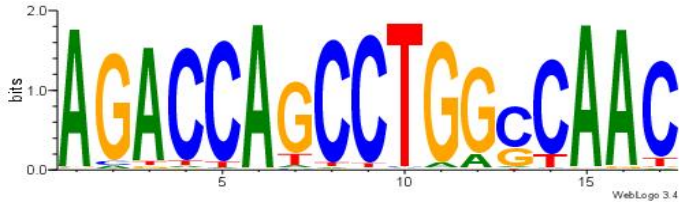

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

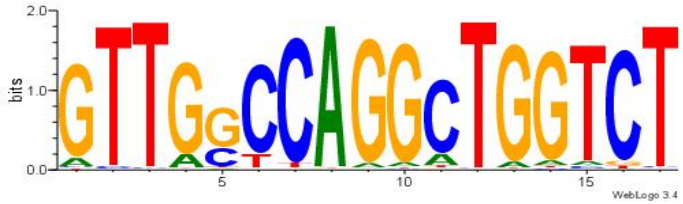

Dataset #: 1

Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.108713

Alignment:

```
CAGGCGGCTGGGAG
GCGGCAGCAAGGC-
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

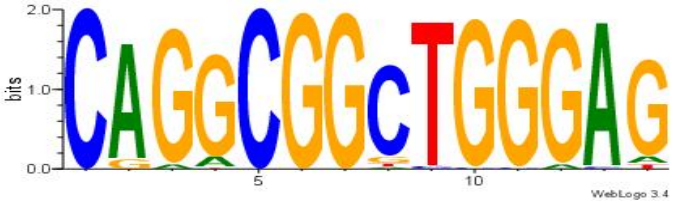

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

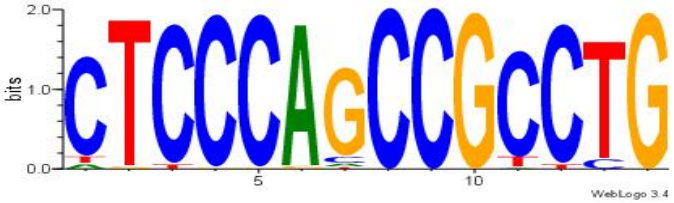

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.109453

Alignment:
AGCCYCTGGYAACCAYYAWT
---GCCTTGCTGCCGC----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

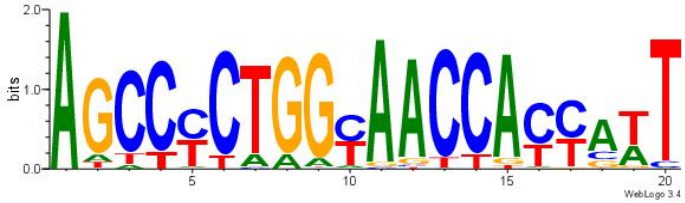

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

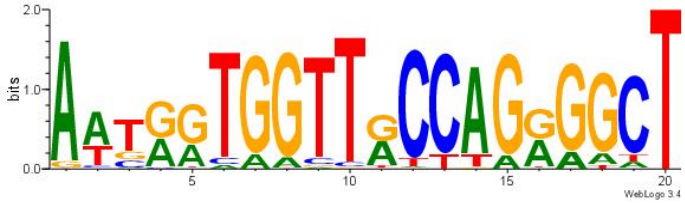

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.109487

Alignment:
GCTCACTGCAASCTC
--GCCTTGCTGCCGC

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

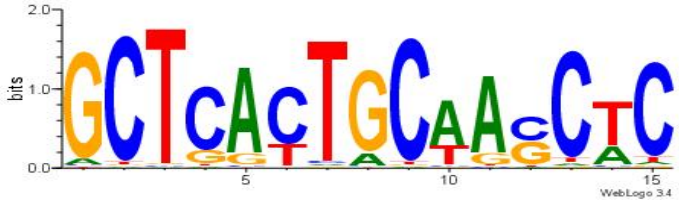

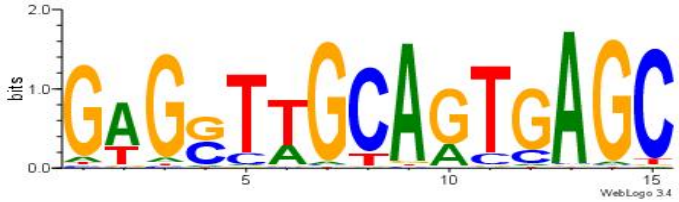

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.109607

Alignment:
CTGAGGACCTGAGGTCRTA
-----GCCTTGCTGCCGC-

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

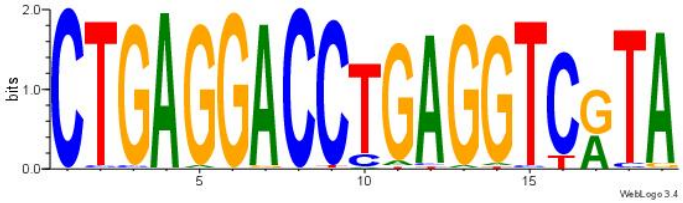

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

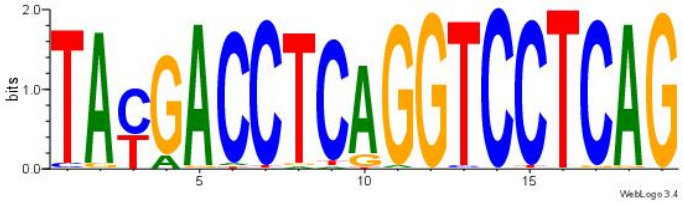

Dataset #: 1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.109692

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-GCCTTGCTGCCGC------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

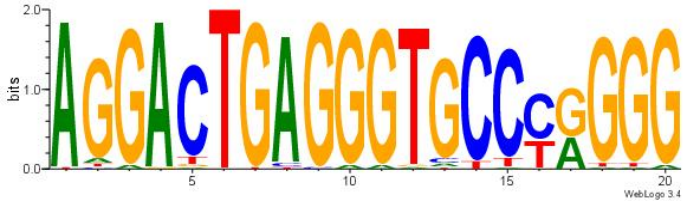

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

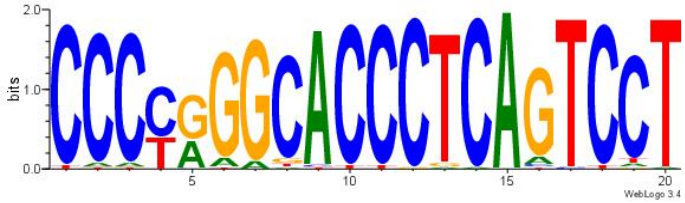

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.109765

Alignment:
GCTGCARTCTCGGCACTTT
GCGGCAGCAAGGC------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

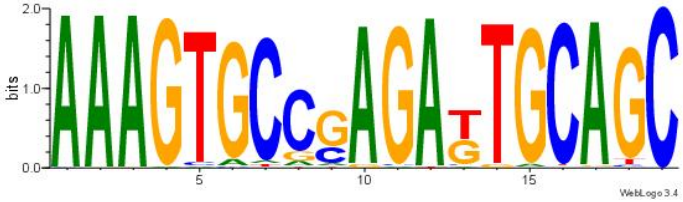

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

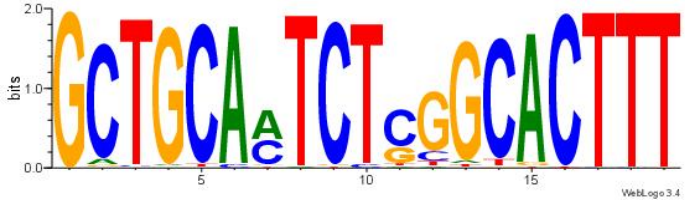

Dataset #: 1
Motif ID: 206
Motif name: Motif 206
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.109826

Alignment:
GGRCKCACWGGAGC
GCCTTGCTGCCGC-

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

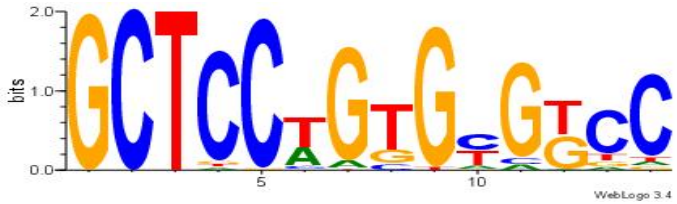

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.109875

Alignment:

```
TGCTCACACAAAGCCTGT
-GCGGCAGCAAGGC----
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

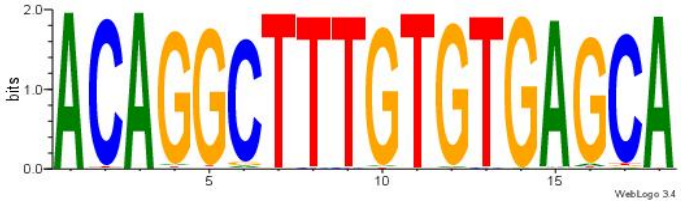

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

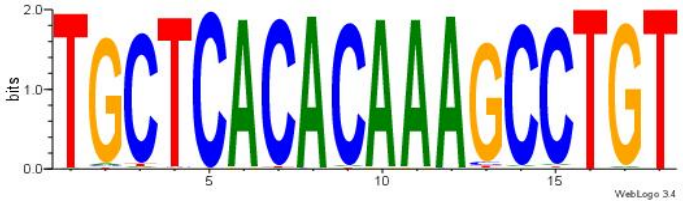

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110341

Alignment:

```
TGGAGAACCTTTATGTCTAG
-GCCTTGCTGCCGC------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

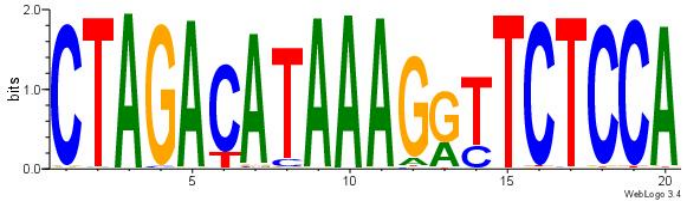

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

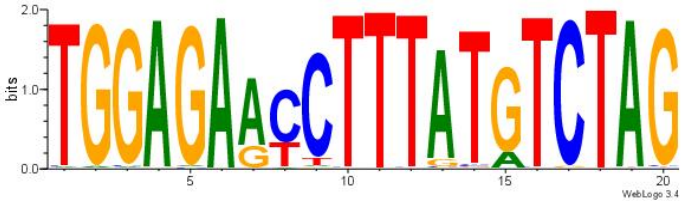

Dataset #: 1 Motif ID: 230 Motif name: Motif 230

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

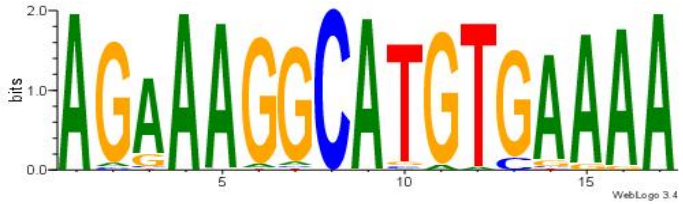

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

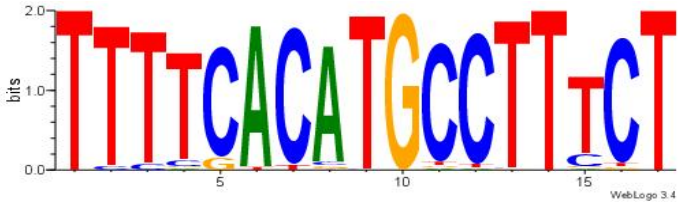

Best Matches for Motif ID 230 (Highest to Lowest)

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.093628

Alignment:

```
AAAATCACAAGCATTCCTAT
-TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

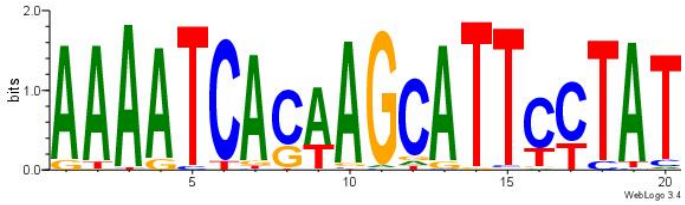

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

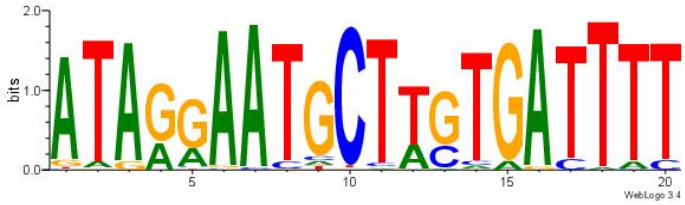

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.102426

Alignment:
GTTGGCCAGGCTGGTCT
TTTTCACATGCCTTTCT

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

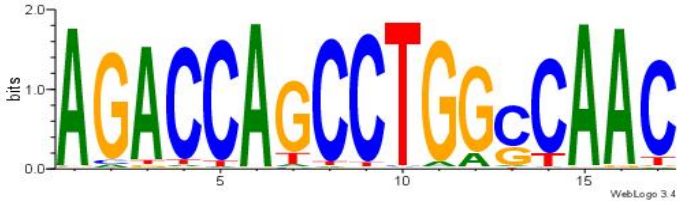

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

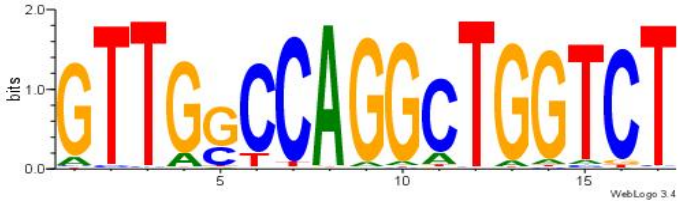

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.110581

Alignment:
CTGTTTGCCTGGGTATCA
-TTTTCACATGCCTTTCT

Original motif Consensus sequence: TGATACCCAGGCAAACAG

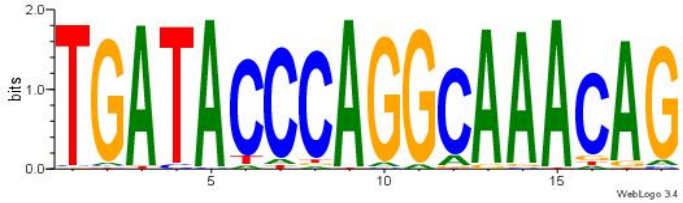

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

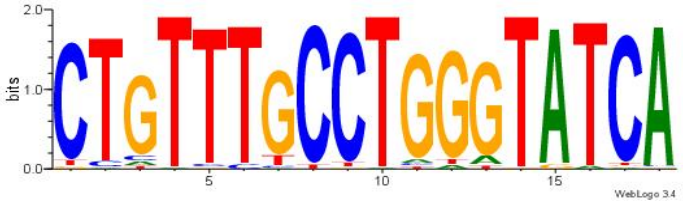

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.11099

Alignment:

```
GTTATTAATTGGCCTAATTT
-TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

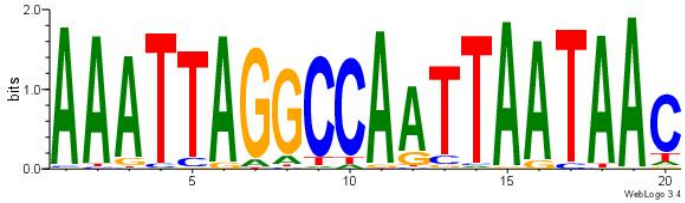

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.111345

Alignment:

```
AGTGAGAACATRYRRTRTTT
-TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

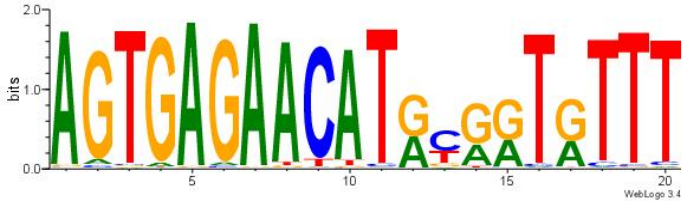

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

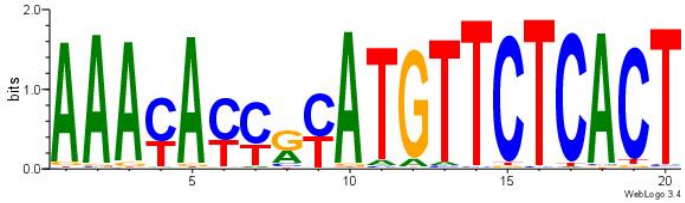

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.115105

Alignment:
CCCAAATCTCATSTTGAAT
--AGAAAGGCATGTGAAAA

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

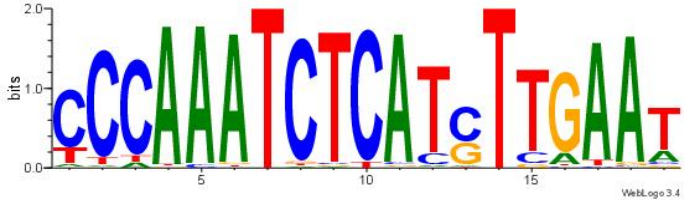

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

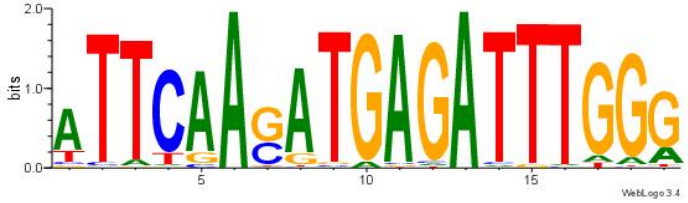

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.118737

Alignment:
TYTGTCMTTTTGTGACTGGC
TTTTCACATGCCTTTCT---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

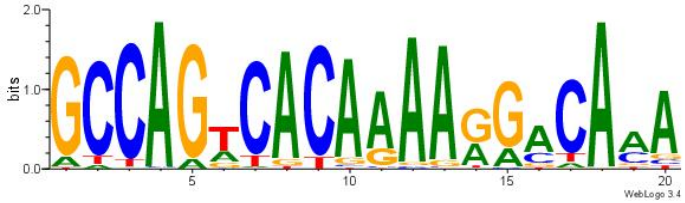

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

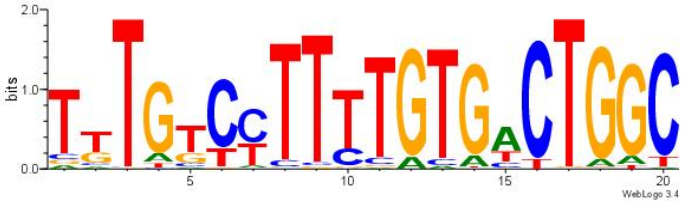

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.119344

Alignment:

```
AATGAKATCATGTCYTTTGC
--TTTTCACATGCCTTTCT-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

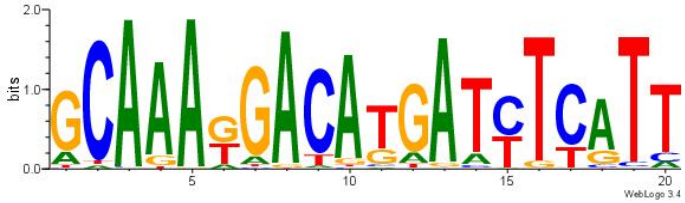

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

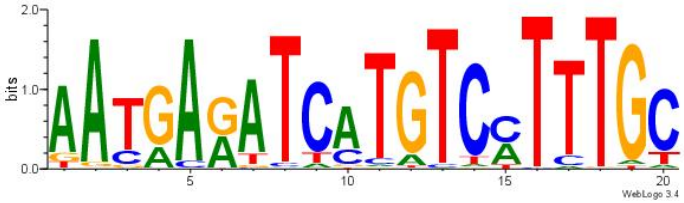

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.120098

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-AGAAAGGCATGTGAAAA--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

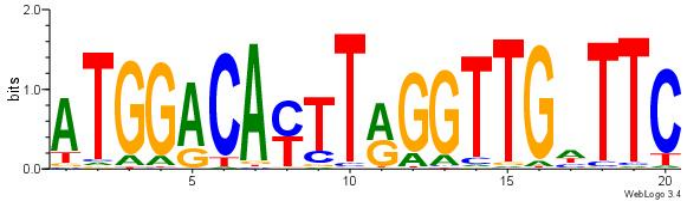

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

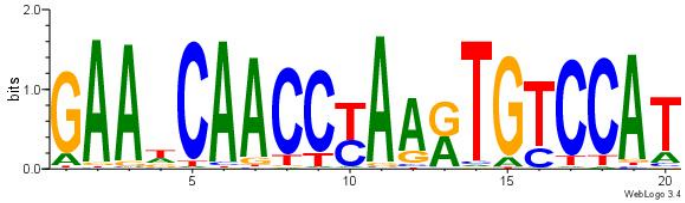

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.120255

Alignment:
AGAGCCAAATCATGARTGAA
---AGAAAGGCATGTGAAAA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

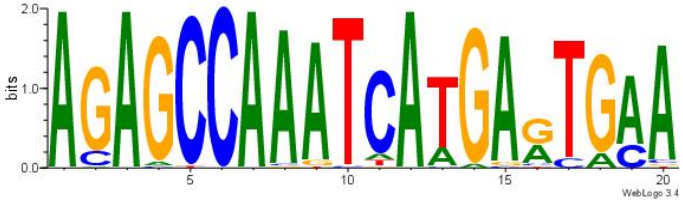

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

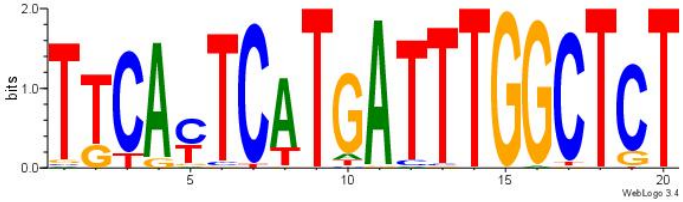

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.120299

Alignment:
GAGAGAGAGAGAGAGAGAGA
---AGAAAGGCATGTGAAAA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

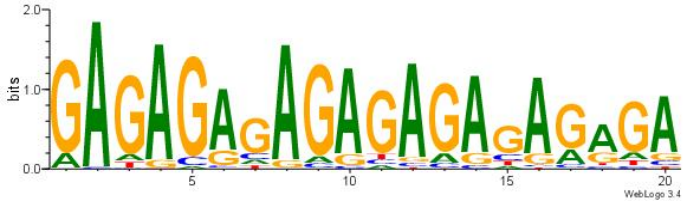

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

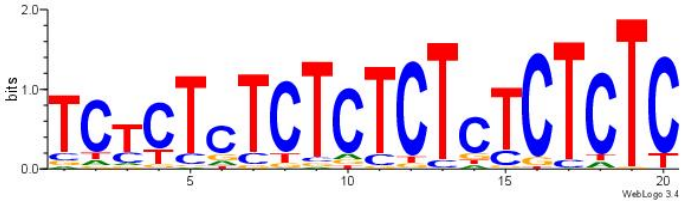

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.122199

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
TTTTCACATGCCTTTCT---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

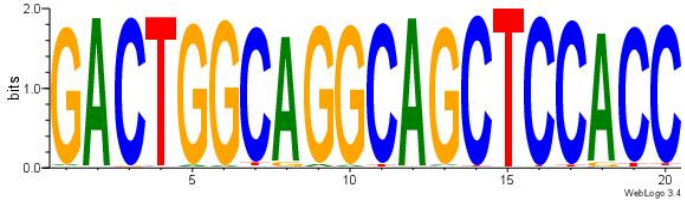

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

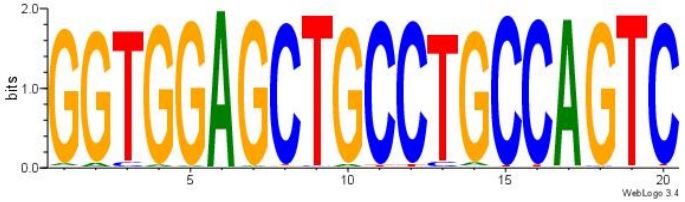

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.122997

Alignment:

```
CAAGTTGACACATAAAATTA
-AGAAAGGCATGTGAAAA--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

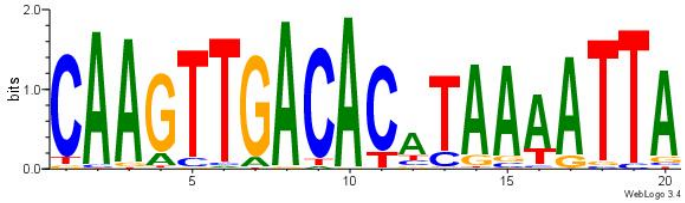

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

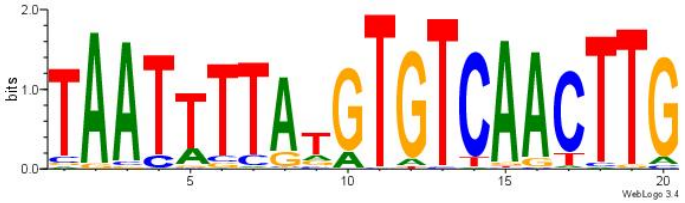

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.12384

Alignment:
AATCAACCCTGGYRATCAAT
-AGAAAGGCATGTGAAAA--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

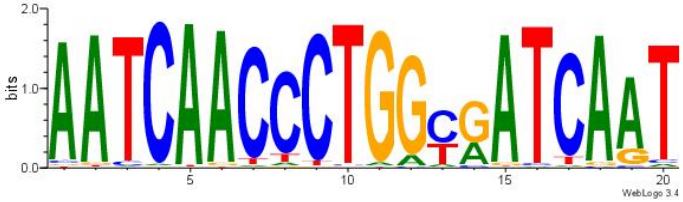

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

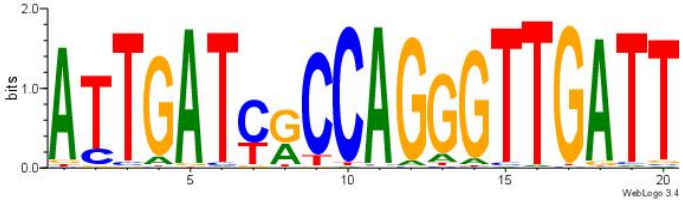

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.123992

Alignment:
AGTAGGTGCTCARTAAATRB
AGAAAGGCATGTGAAAA---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

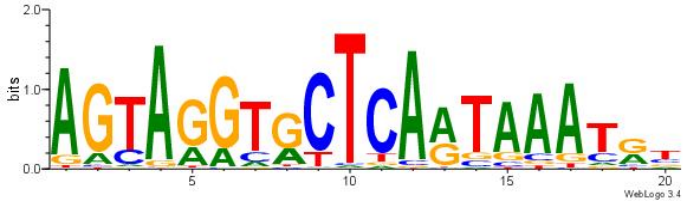

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

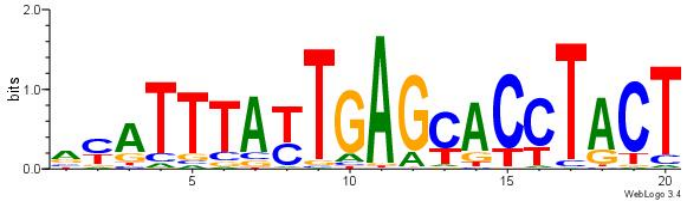

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.124184

Alignment:

```
AAAAGTCCACAGTCCAAAGT
TTTTCACATGCCTTTCT---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

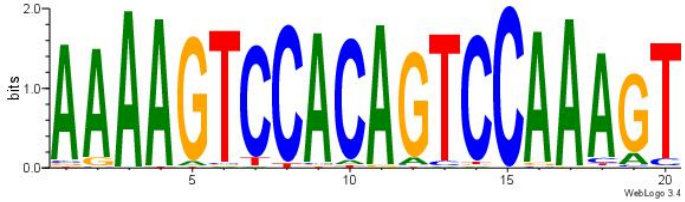

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

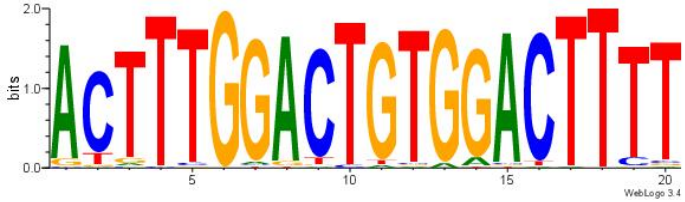

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.124661

Alignment:

```
GTKTMTATMTACCACATTTT
-TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

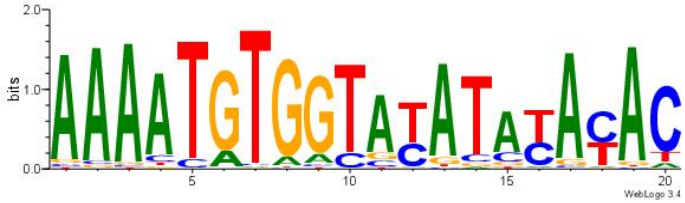

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

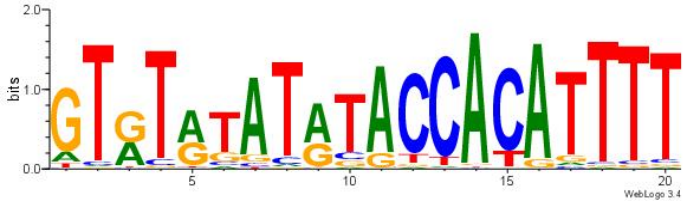

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.124878

Alignment:
AAGCAGGGCGAGGCATTGCC
-AGAAAGGCATGTGAAAA--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

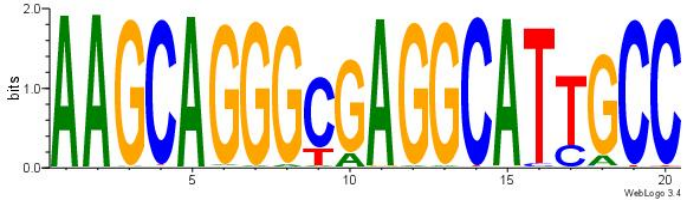

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

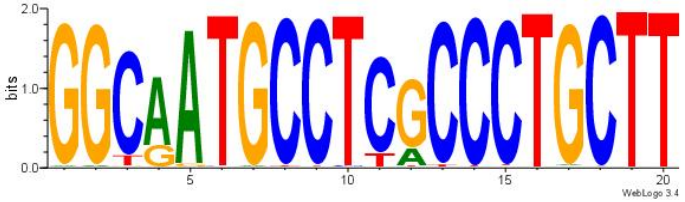

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.125708

Alignment:
GAAACTGCTTTGTGATGTGT
--AGAAAGGCATGTGAAAA-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

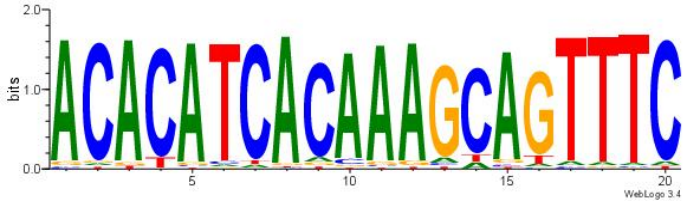

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

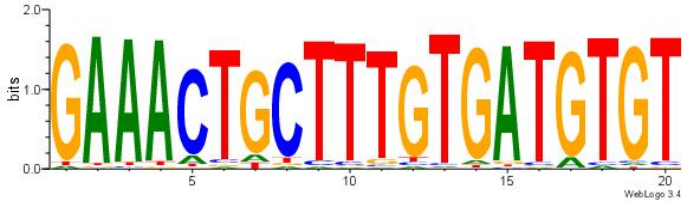

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.125754

Alignment:

```
GGTCAGGATCATCAATAT
-AGAAAGGCATGTGAAAA
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

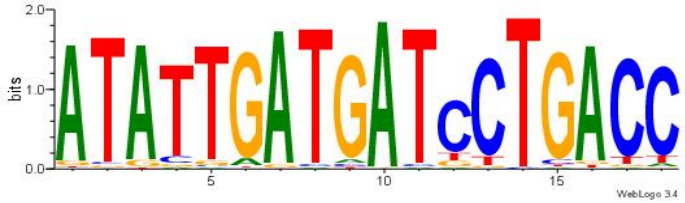

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

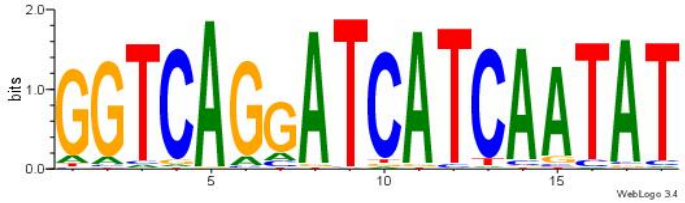

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.125922

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--TTTTCACATGCCTTTCT-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

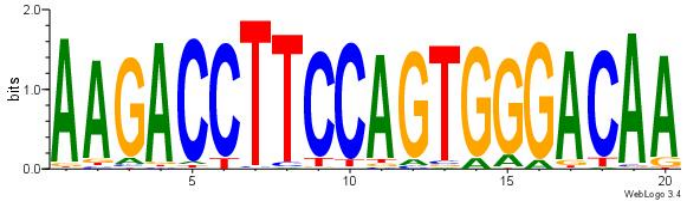

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

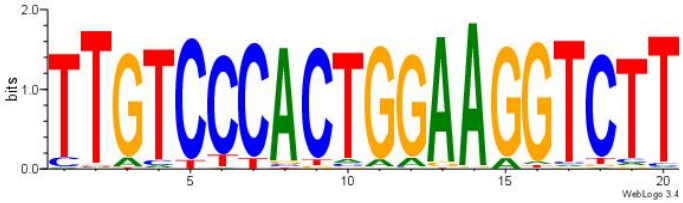

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.126128

Alignment:
TCAATGGGCTCCCAAATG
AGAAAGGCATGTGAAAA-

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

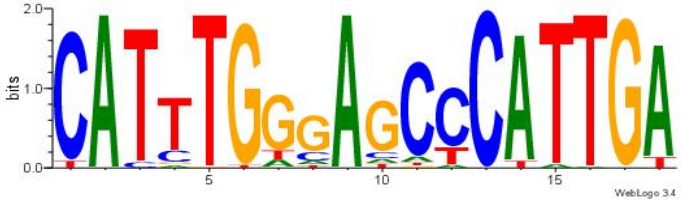

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

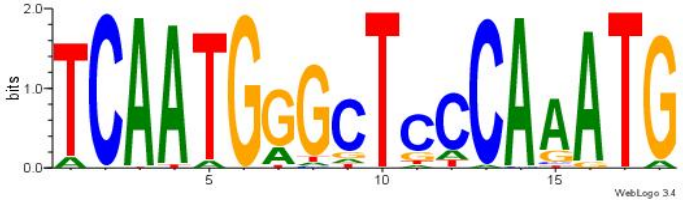

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.12673

Alignment:
AAAACCAGCAAGTTTTTAT
-AGAAAGGCATGTGAAAA-

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

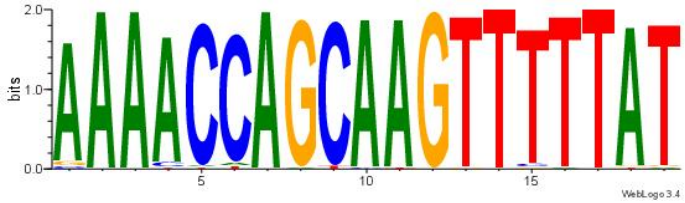

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

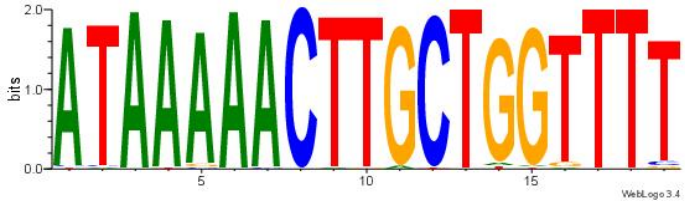

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.129646

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---TTTTCACATGCCTTTCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

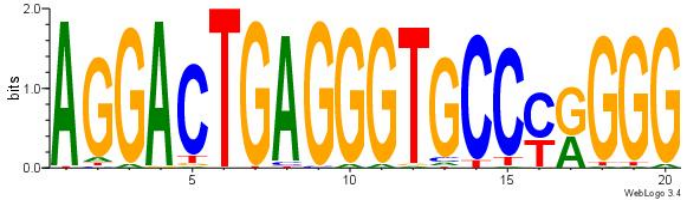

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

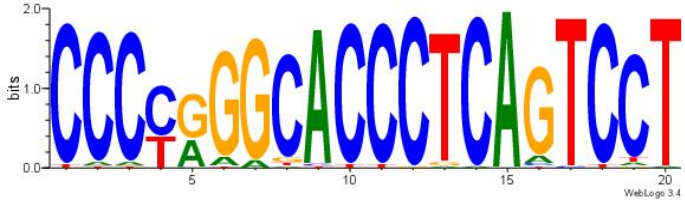

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.130898

Alignment:

```
ATGGCCTATGACYGSTTTG
TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

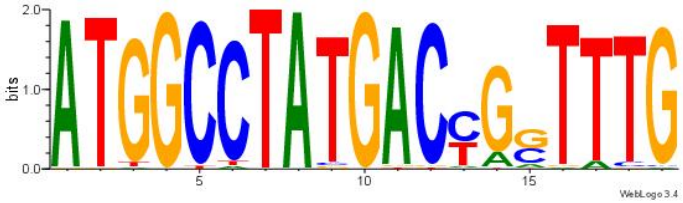

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

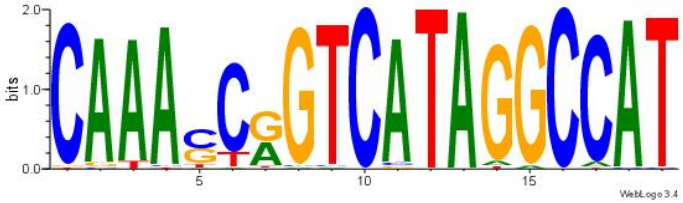

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.132349

Alignment:
CGGCGCTGMGCTCGATTTCT
---TTTTCACATGCCTTTCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

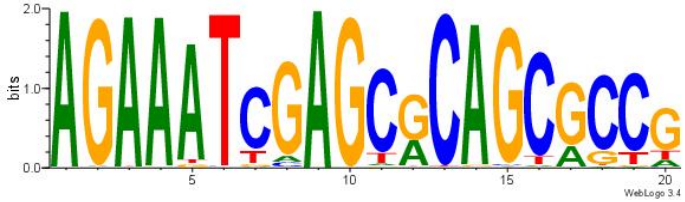

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

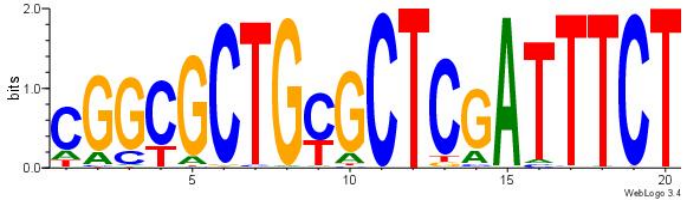

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.132381

Alignment:
GCACATGTAYCCYAGAACTT
AGAAAGGCATGTGAAAA---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

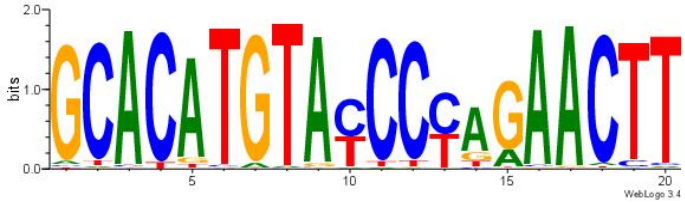

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

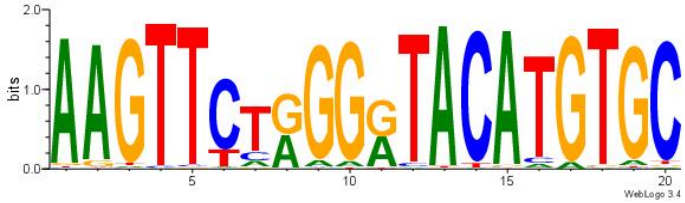

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.132914

Alignment:

```
CMTAGYACAGTGCCTGGCAC
AGAAAGGCATGTGAAAA---
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

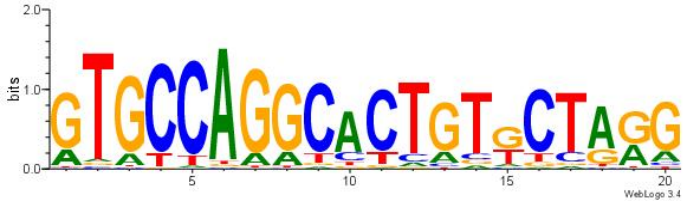

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

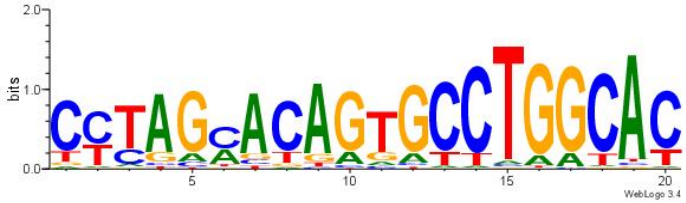

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.133475

Alignment:

```
TGTGTGTGTGTKTGTGTGT
TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: ACACACAYACACACACACA

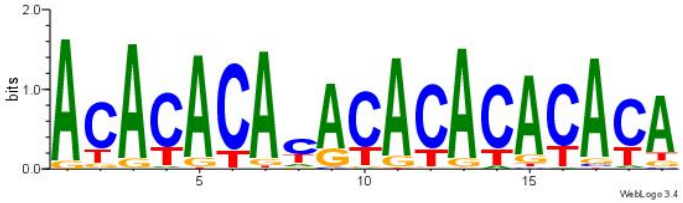

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

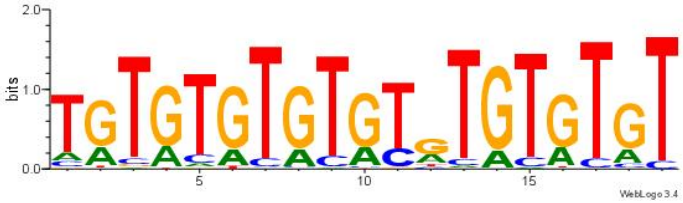

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.133494

Alignment:
KGGGCDGAGGGGCTCCT
TTTTCACATGCCTTTCT

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

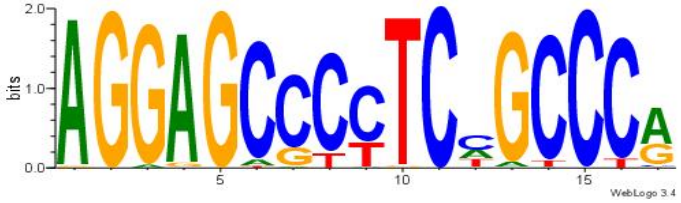

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.133507

Alignment:
AGCTCMKCCTCCTGTCAGAT
TTTTCACATGCCTTTCT---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

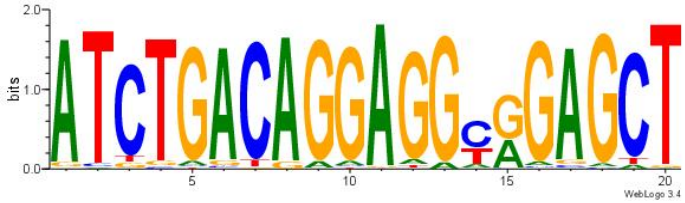

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

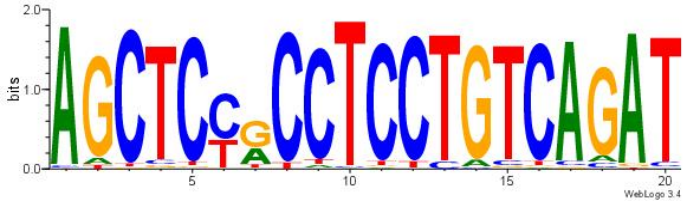

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.133981

Alignment:

```
HAGTGGKATTGCTGGATCAT
TTTTCACATGCCTTTCT---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

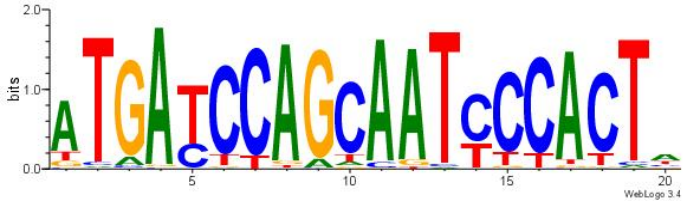

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

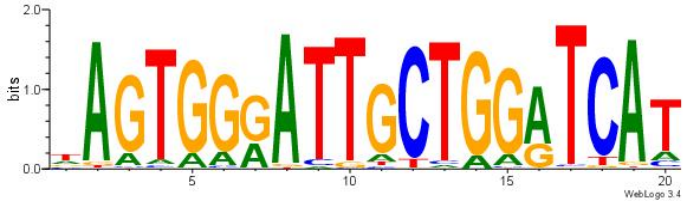

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.134194

Alignment:

```
AAATTACCCAGTCTCAGGTA
-TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

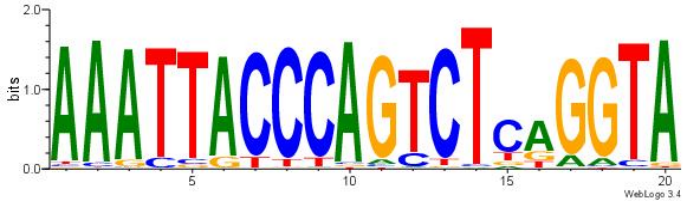

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

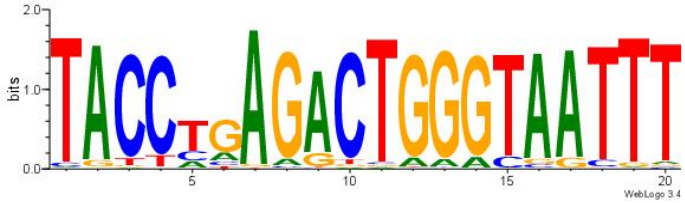

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.134799

Alignment:
AGGAGCGCCTCTKCCCGGC
AGAAAGGCATGTGAAAA--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

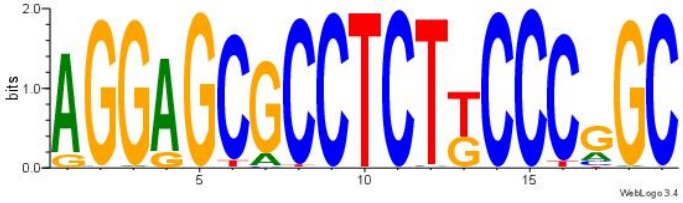

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

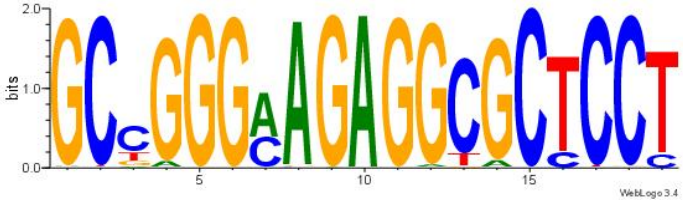

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.135108

Alignment:
GTCTCWAMAAAAAAWAMAAA
---AGAAAGGCATGTGAAAA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

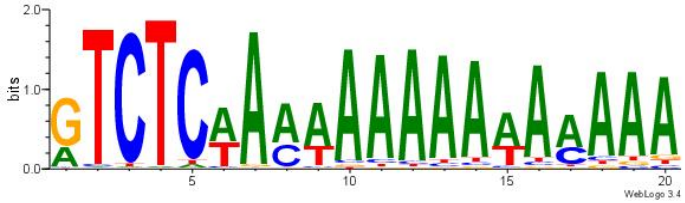

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

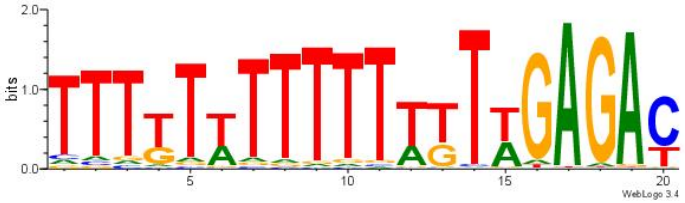

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.135354

Alignment:

```
TTGGTAGGATCCGTGATGCC
TTTTCACATGCCTTTCT---
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

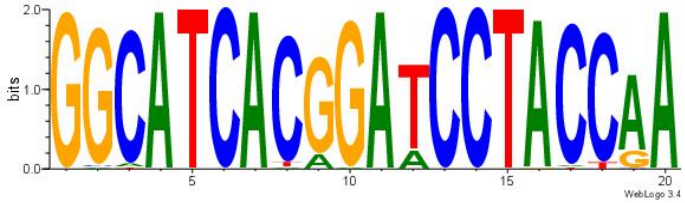

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

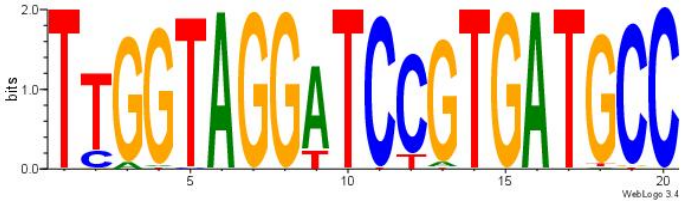

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.135505

Alignment:

```
TGCTGGAGGTCCACTCCAGA
---AGAAAGGCATGTGAAAA
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

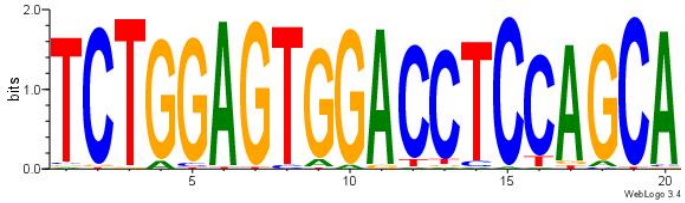

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

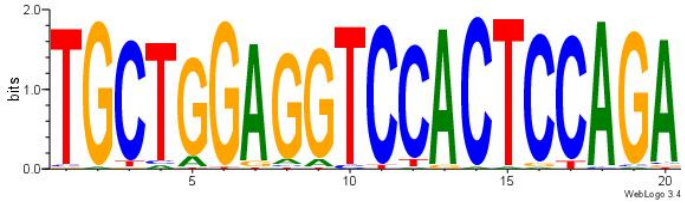

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.136416

Alignment:
GGCACTGCTGGGGGACCCAG
---AGAAAGGCATGTGAAAA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

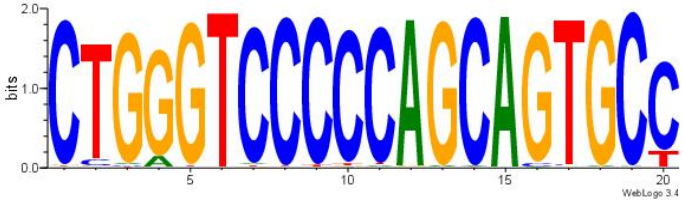

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

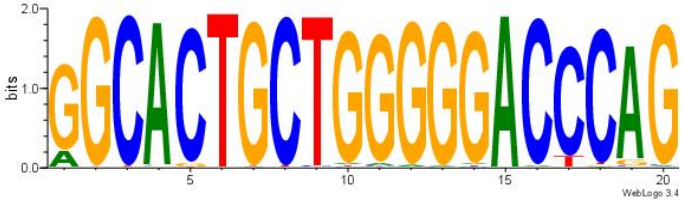

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.136445

Alignment:
CATTCTGGGGTCTGGAGGAY
-AGAAAGGCATGTGAAAA--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

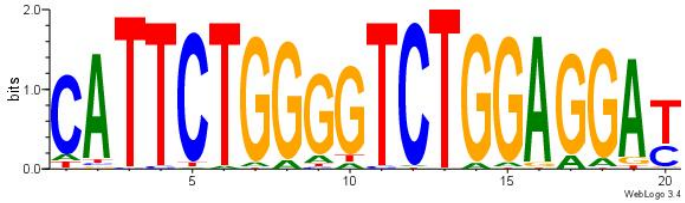

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

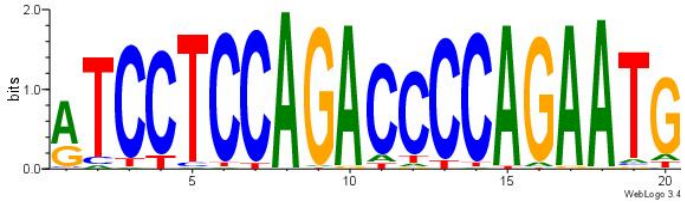

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.136488

Alignment:

```
CTGAGGACCTGAGGTCRTA
-TTTTCACATGCCTTTCT-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

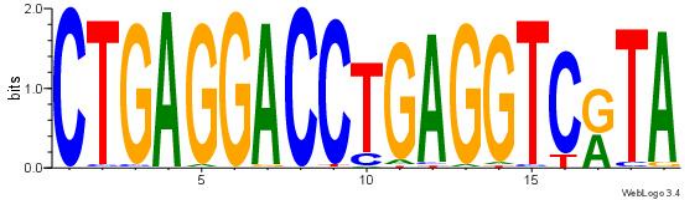

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

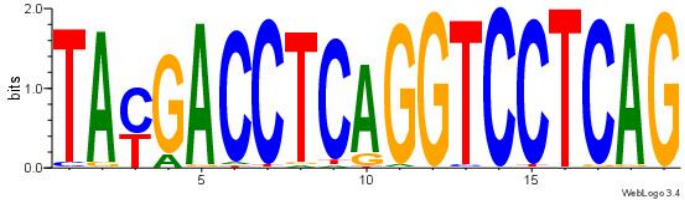

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.136789

Alignment:

```
GCCAGGCAGAGRGKCTCCT
TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

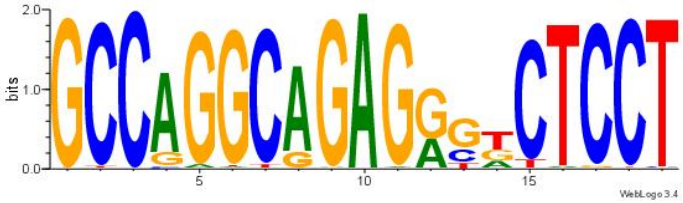

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

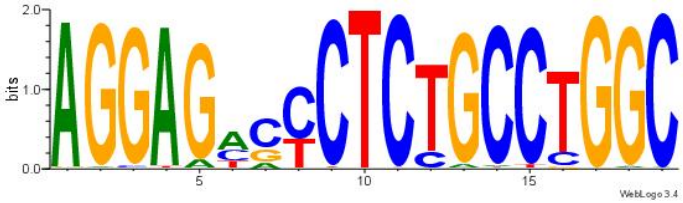

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.137303

Alignment:
CTTGCCCAAGGTCACACAGC
-TTTTCACATGCCTTTCT--

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

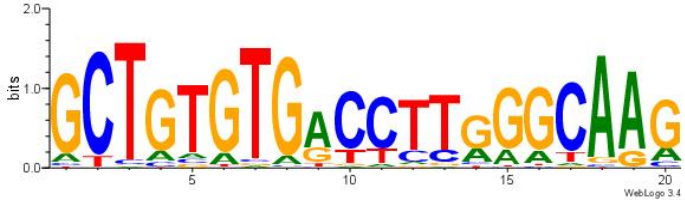

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

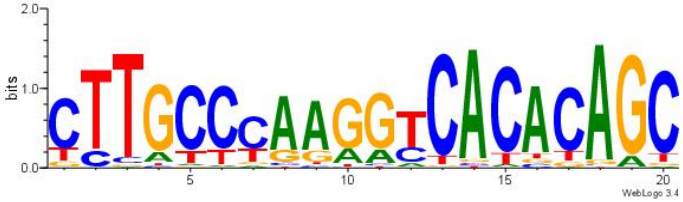

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.137652

Alignment:
AAGTCTCCCAATTACAACT
-AGAAAGGCATGTGAAAA-

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

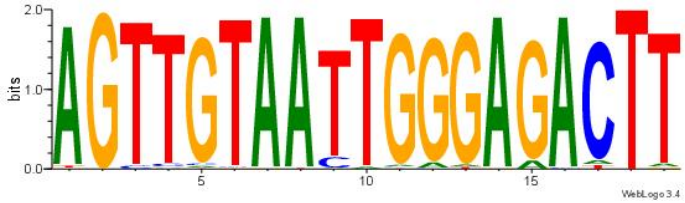

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

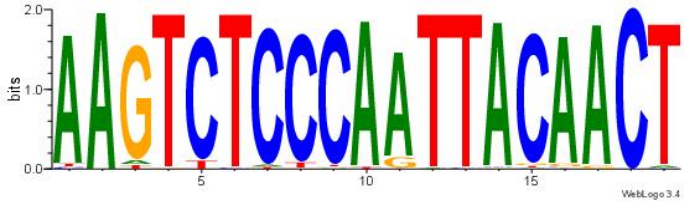

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.137875

Alignment:

```
AAGGAACAAACTCCRGACAC
-AGAAAGGCATGTGAAAA--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

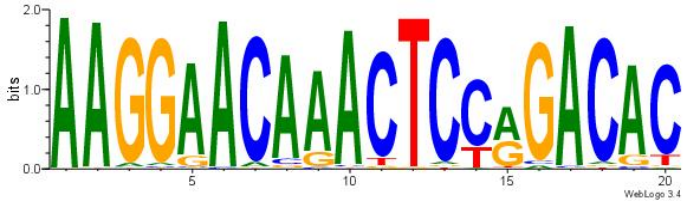

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

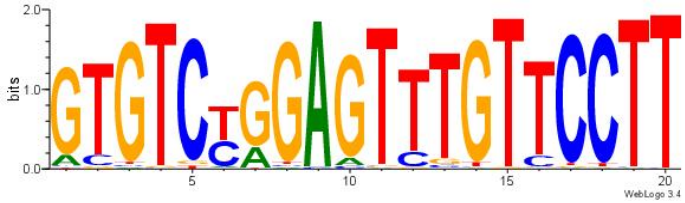

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.13804

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-TTTTCACATGCCTTTCT--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

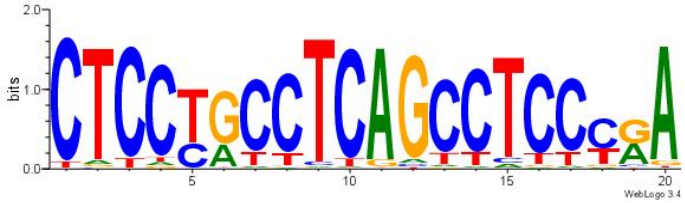

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

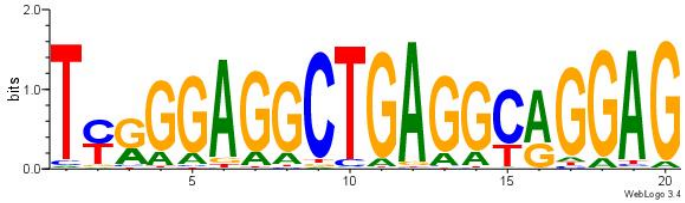

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.138056

Alignment:
ATACAATGGGGGTACAGRC
--AGAAAGGCATGTGAAAA

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

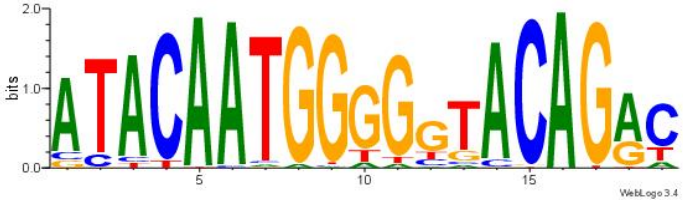

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

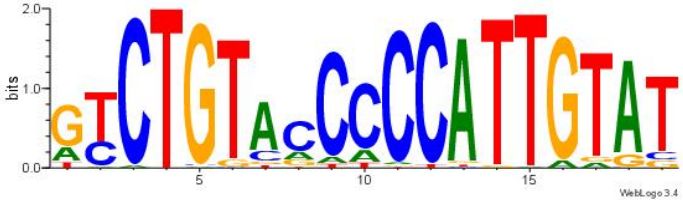

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.138305

Alignment:
CTTGCGCTTCCCRRGTGA
-TTTTCACATGCCTTTCT

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

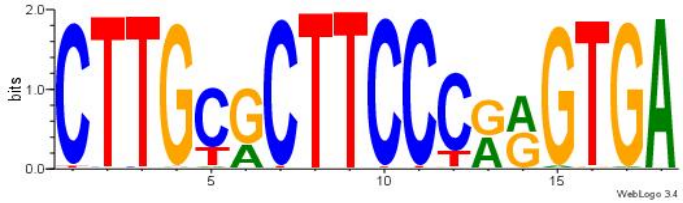

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

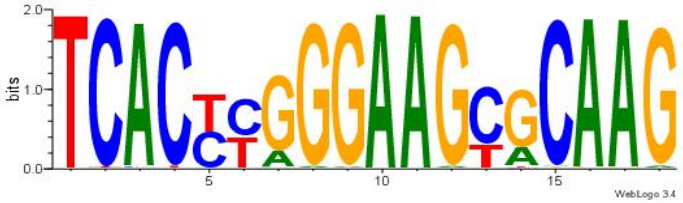

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.138365

Alignment:

```
CTCCAGKTMCATCCATGTTG
---TTTTCACATGCCTTTCT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

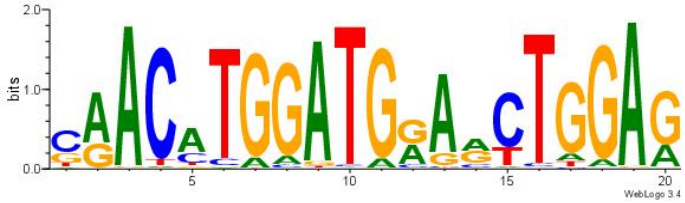

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

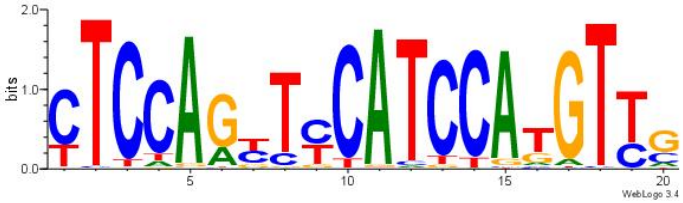

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.138443

Alignment:

```
CACCAGACTCAGGAGCCCAG
-AGAAAGGCATGTGAAAA--
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

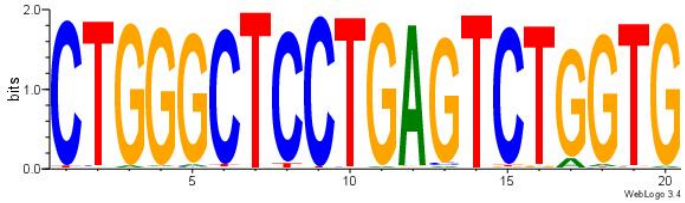

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

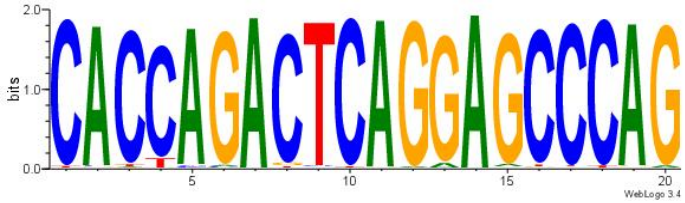

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.138501

Alignment:
GGGATTGTAAATACACCAAT
---TTTTCACATGCCTTTCT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

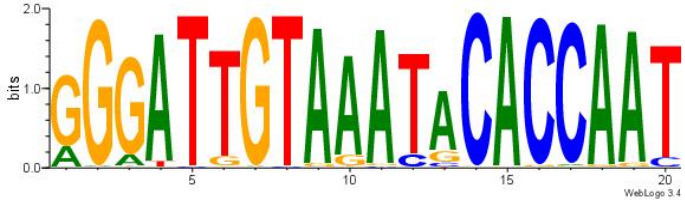

Dataset #: 1 Motif ID: 231 Motif name: Motif 231

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

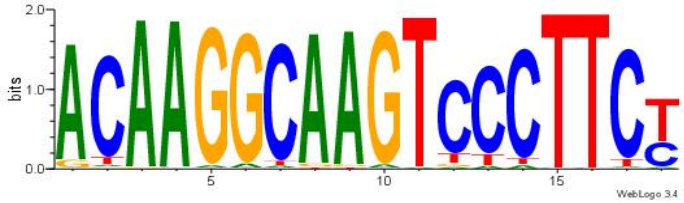

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

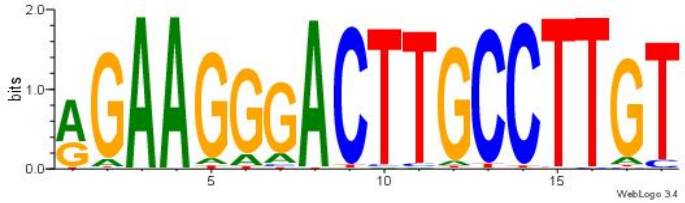

Best Matches for Motif ID 231 (Highest to Lowest)

Dataset #: 1
Motif ID: 16
Motif name: Motif 16

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0860131

Alignment:

```
GAAAGGGAACTCCCTGACCC
ACAAGGCAAGTCCCTTCY--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

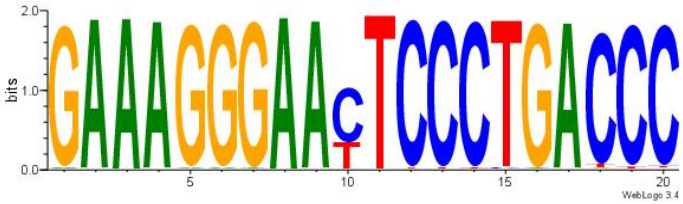

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

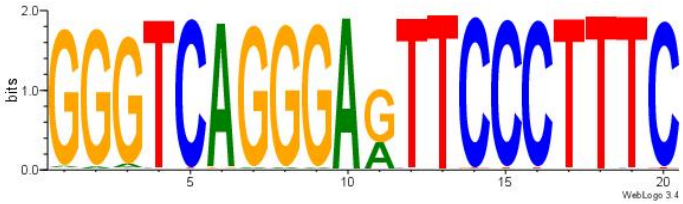

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0932717

Alignment:
GGATTTMKGACTTGCATGGG
--MGAAGGGACTTGCCTTGT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

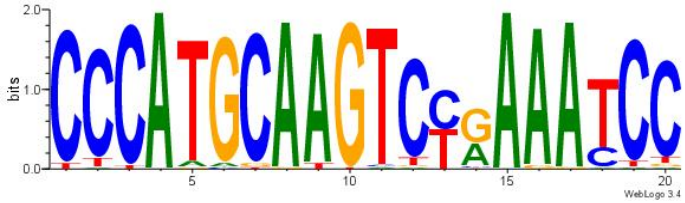

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

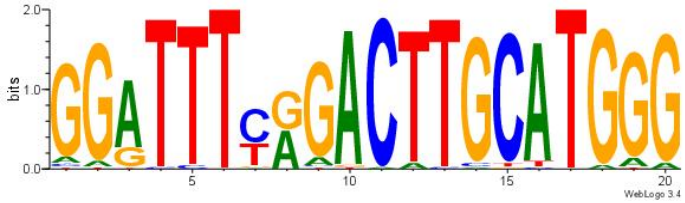

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0987599

Alignment:
AAGCAGGGCGAGGCATTGCC
-MGAAGGGACTTGCCTTGT-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

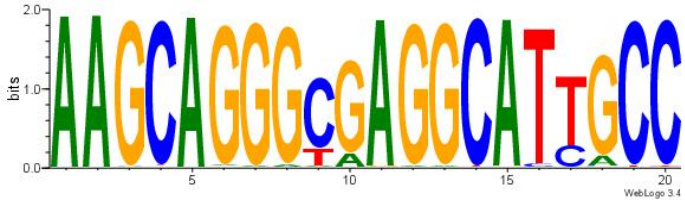

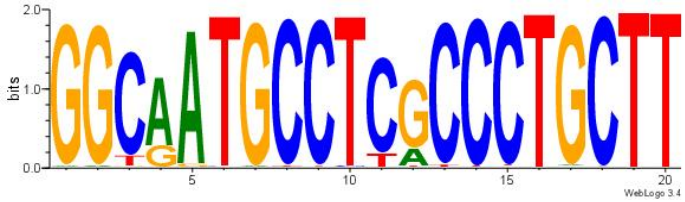

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.103588

Alignment:

```
AGTGACCCGATTTTCCAGGT
--MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

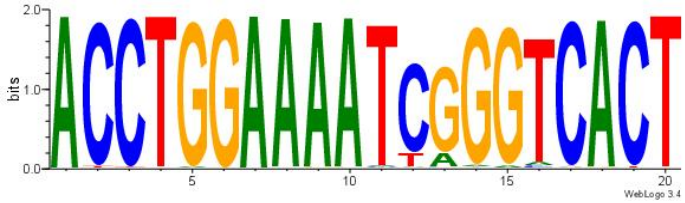

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

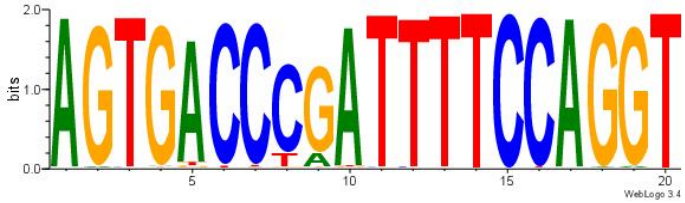

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.103835

Alignment:

```
AGTGAGAACATRYRRTRTTT
--MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

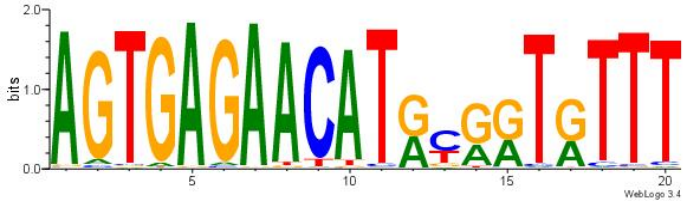

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

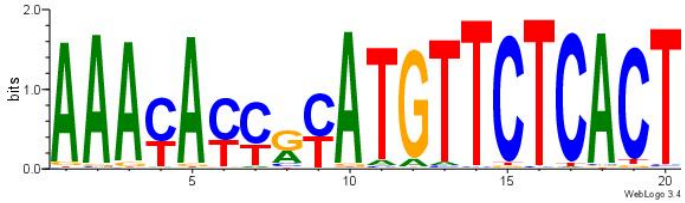

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.104002

Alignment:
AGGAGRCMCTCTGCCTGGC
MGAAGGGACTTGCCTTGT-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

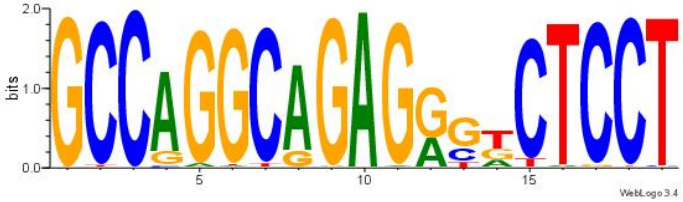

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

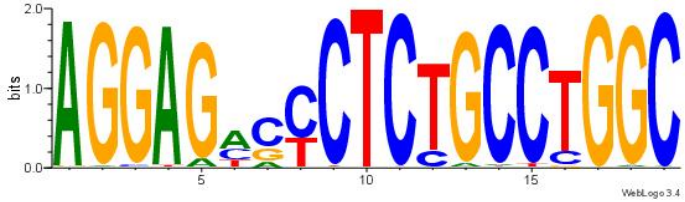

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.107518

Alignment:
ACACATCACAAAGCAGTTTC
--ACAAGGCAAGTCCCTTCY

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

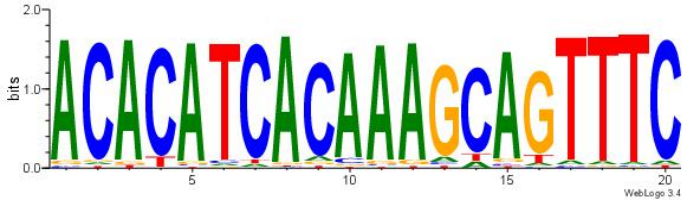

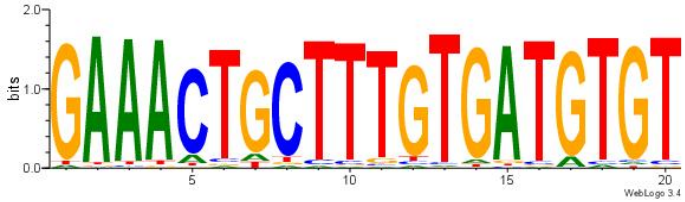

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.110407

Alignment:

```
CACCAGGAGATTATATCCCR
-ACAAGGCAAGTCCCTTCY-
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

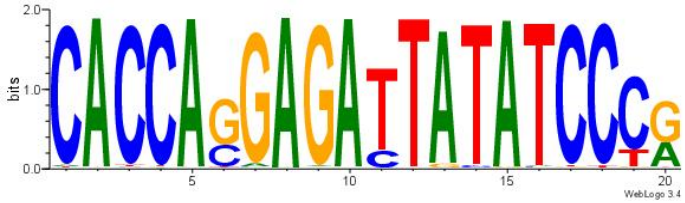

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

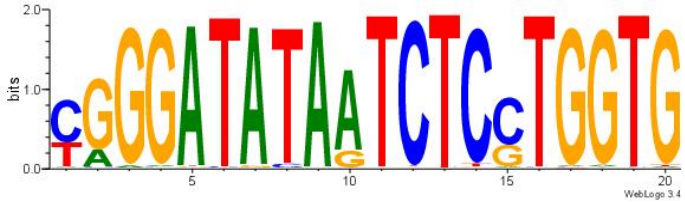

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.111968

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--ACAAGGCAAGTCCCTTCY
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

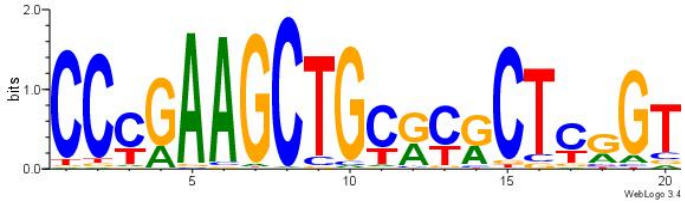

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

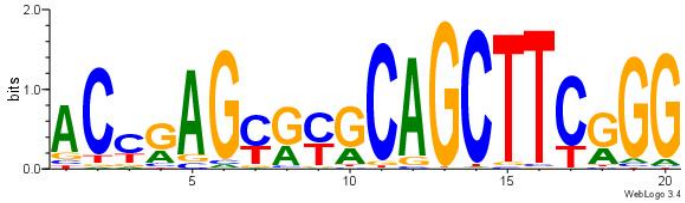

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.11554

Alignment:
AATGAKATCATGTCYTTTGC
ACAAGGCAAGTCCCTTCY--

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

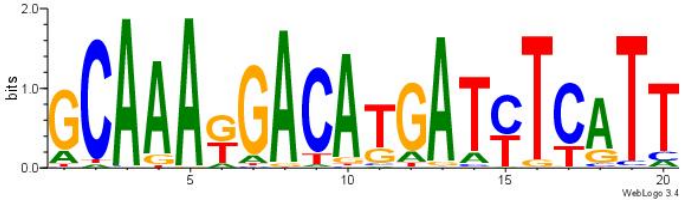

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

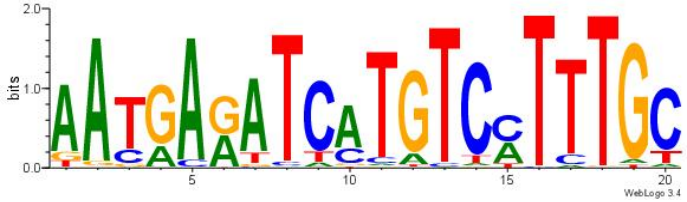

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.116142

Alignment:
GTGCCAGGCACTGTKCTARG
MGAAGGGACTTGCCTTGT--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

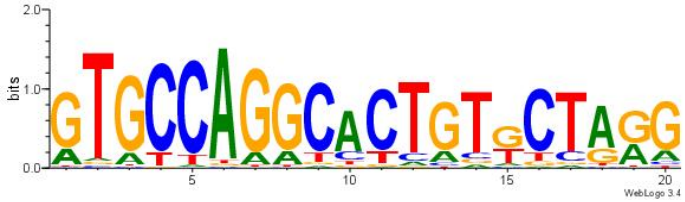

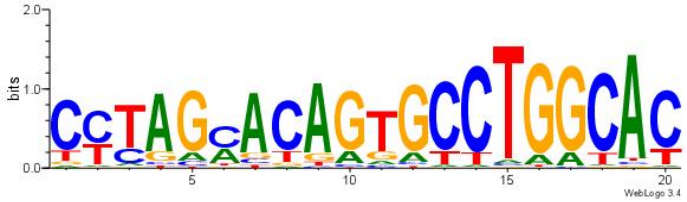

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.116609

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-ACAAGGCAAGTCCCTTCY-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

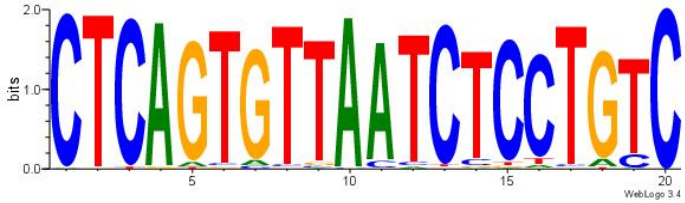

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

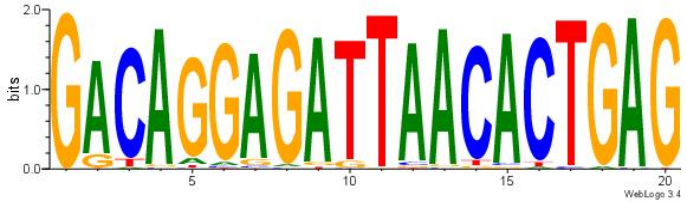

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.118137

Alignment:

```
AAATTAGGCCAATTAATAAC
--ACAAGGCAAGTCCCTTCY
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

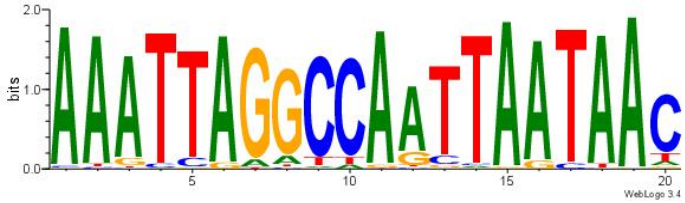

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.118603

Alignment:
CCCMKGGCACCCTCAGTCCT
-ACAAGGCAAGTCCCTTCY-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

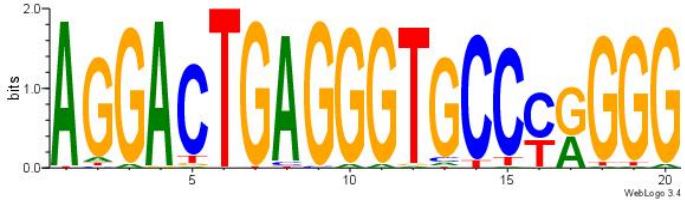

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

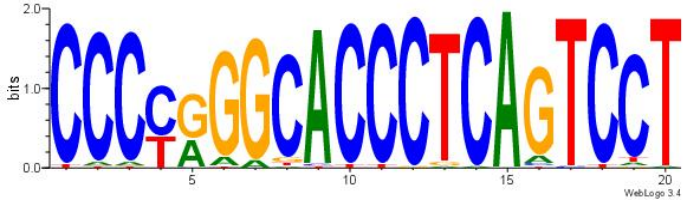

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.121623

Alignment:
TGGAGAACCTTTATGTCTAG
MGAAGGGACTTGCCTTGT--

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

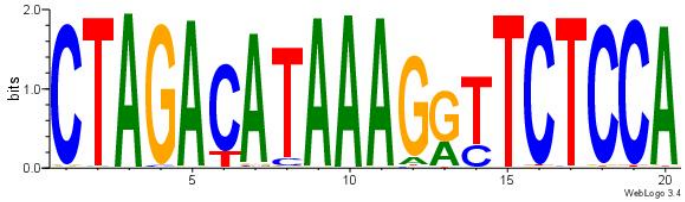

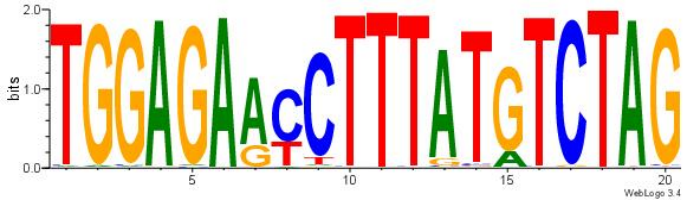

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.122673

Alignment:

```
CTGACTGGGAGACACCTCCC
-ACAAGGCAAGTCCCTTCY-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

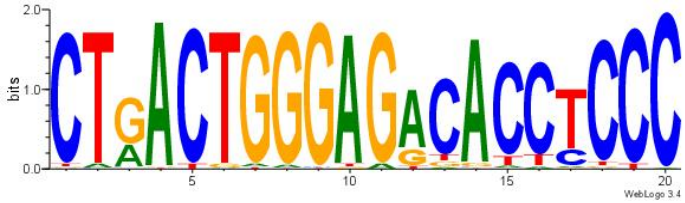

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

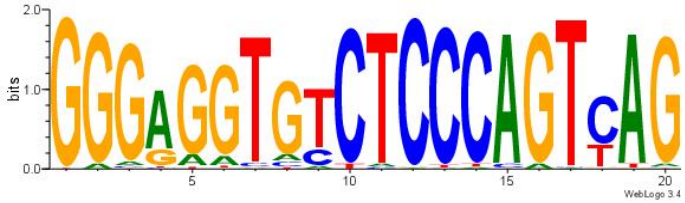

Dataset #: 1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.122819

Alignment:

```
AGGAGCGCCTCTKCCCGGC
-MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

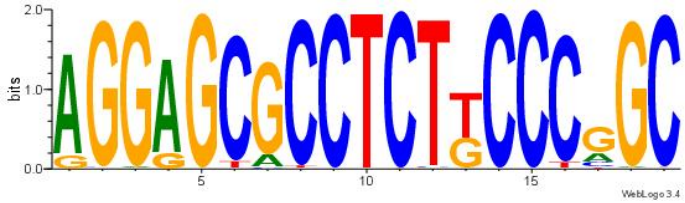

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

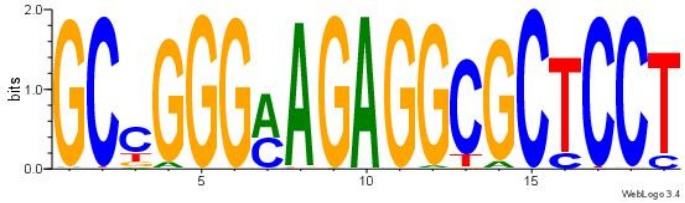

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.122979

Alignment:
TAGTGGTGATTTSTGAGAT
-MGAAGGGACTTGCCTTGT

Original motif Consensus sequence: ATCTCASAAATCACCACTA

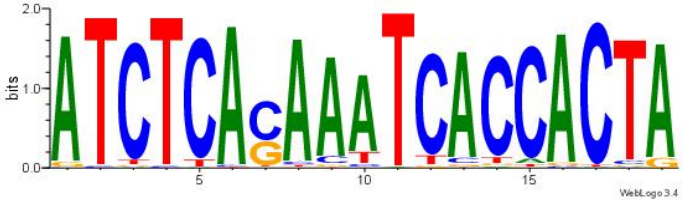

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

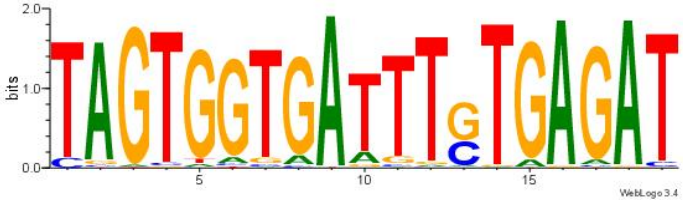

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.124385

Alignment:
ATCATTCTTATGCCTTTG
MGAAGGGACTTGCCTTGT

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

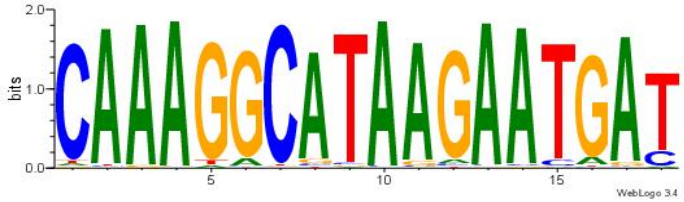

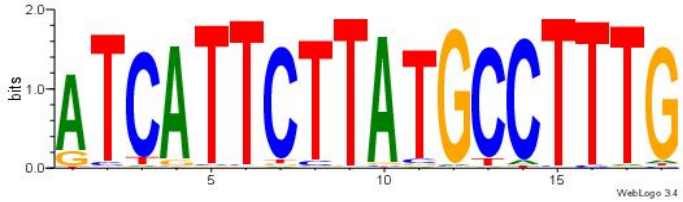

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.125538

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-MGAAGGGACTTGCCTTGT-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

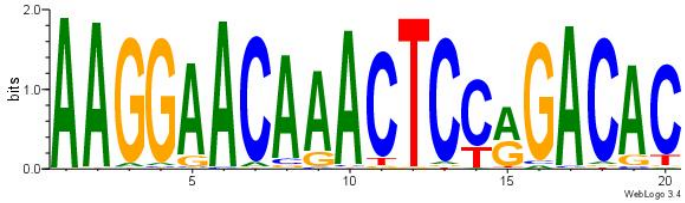

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

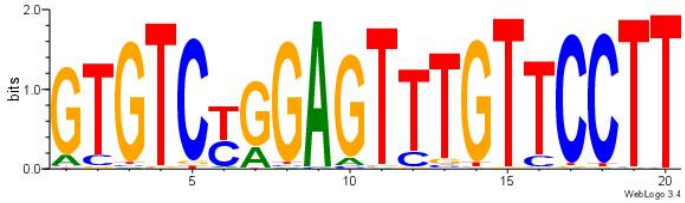

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.12716

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

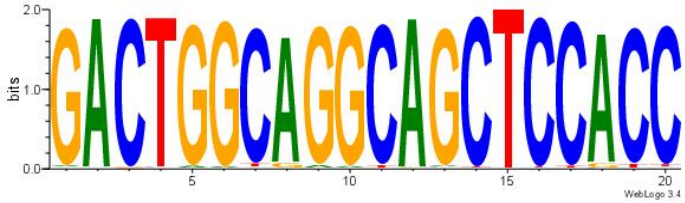

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

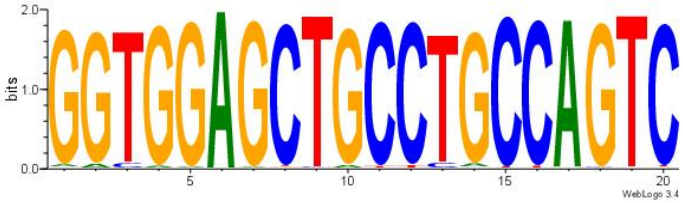

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.127244

Alignment:
CAACATGGATGRARCTGGAG
-MGAAGGGACTTGCCTTGT-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

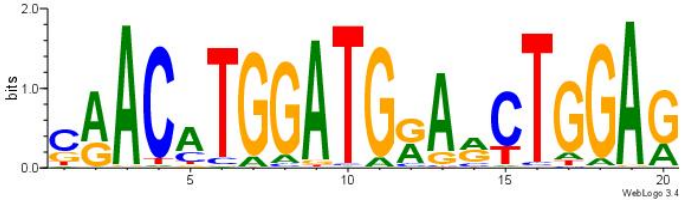

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

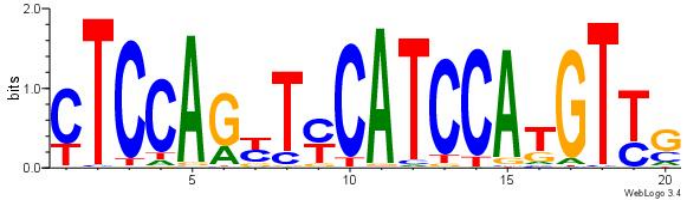

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.128956

Alignment:
ATGTAACCAAAYACCACCTG
-ACAAGGCAAGTCCCTTCY-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

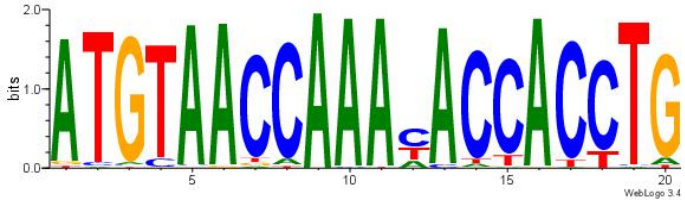

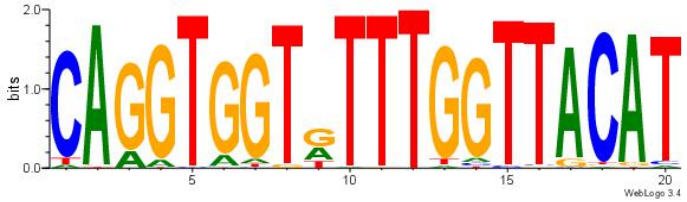

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.129137

Alignment:

```
TGAGKCAATTAAACCTCTT
MGAAGGGACTTGCCTTGT-
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

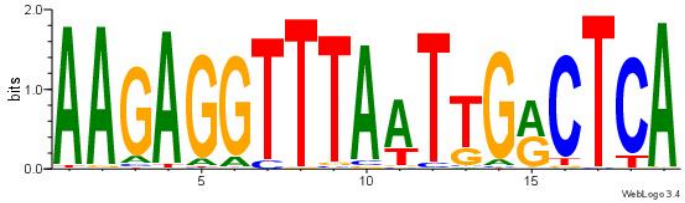

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

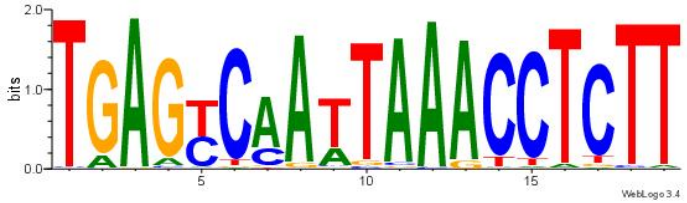

Dataset #: 1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.129145

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

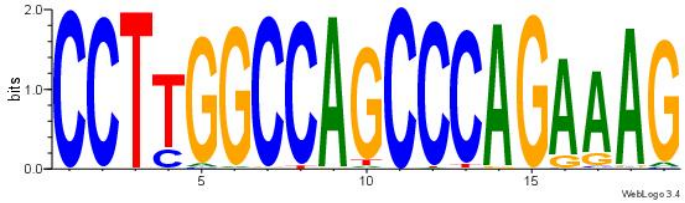

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

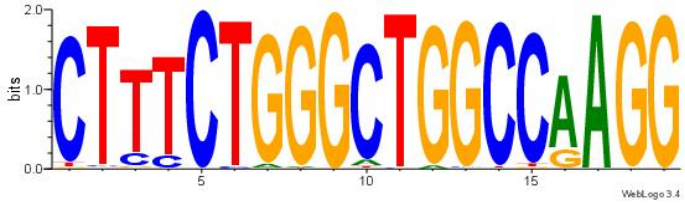

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.129368

Alignment:
GCTGGAGTGCAGTGGCRYGA
MGAAGGGACTTGCCTTGT--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

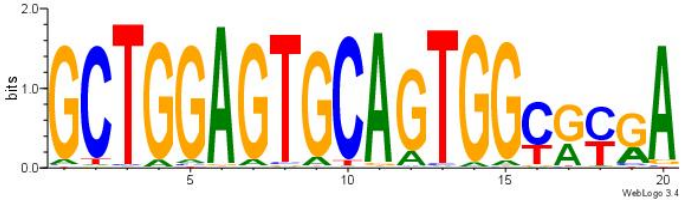

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

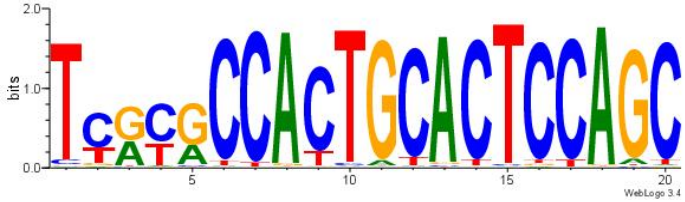

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.12963

Alignment:
AAGCTGAGGGAGCCGGCTCC
--ACAAGGCAAGTCCCTTCY

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

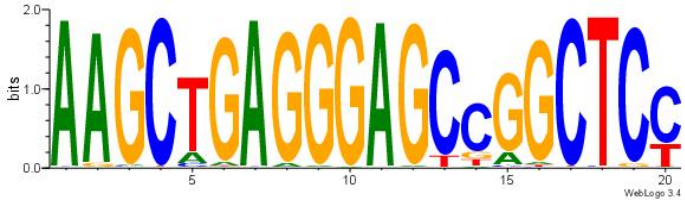

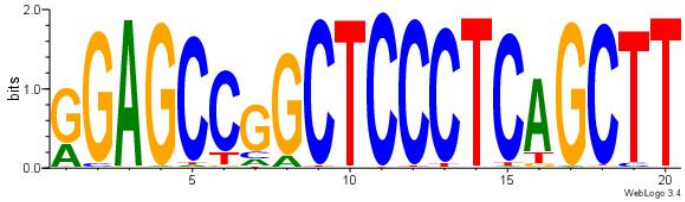

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.130238

Alignment:
CTGAGGACCTGAGGTCRTA
MGAAGGGACTTGCCTTGT-

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

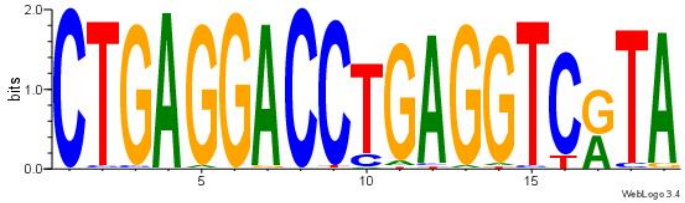

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

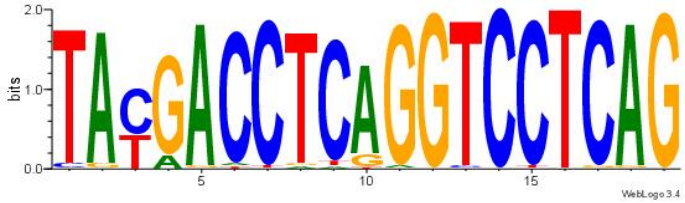

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.13032

Alignment:

```
AGTAGGTGCTCARTAAATRB
--MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

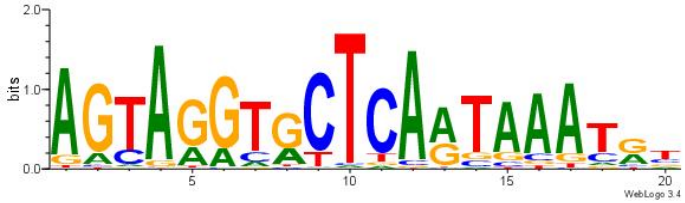

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

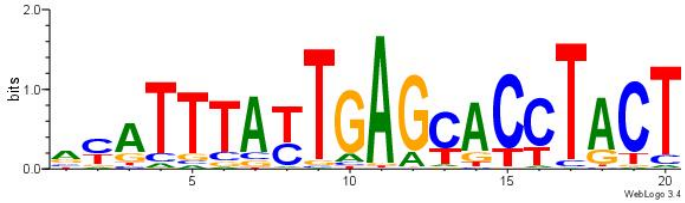

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.131295

Alignment:
MCCYGGCWSMGASGSTCCT
-ACAAGGCAAGTCCCTTCY

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

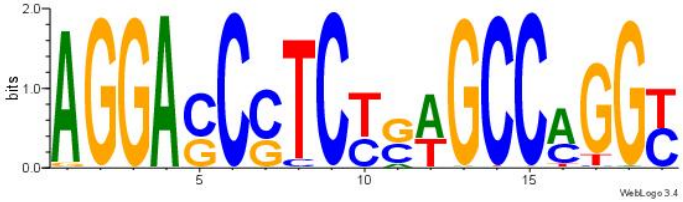

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

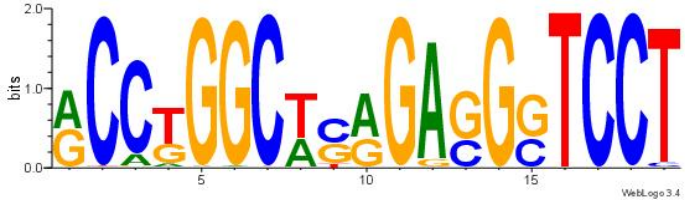

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.132038

Alignment:
CAGCTACTCKTATACCCTTG
ACAAGGCAAGTCCCTTCY--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

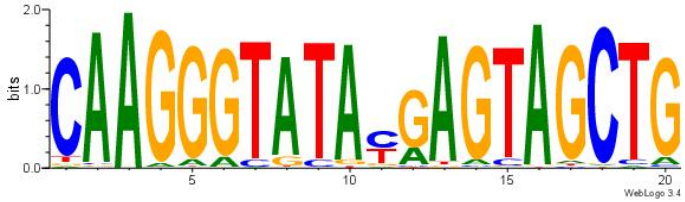

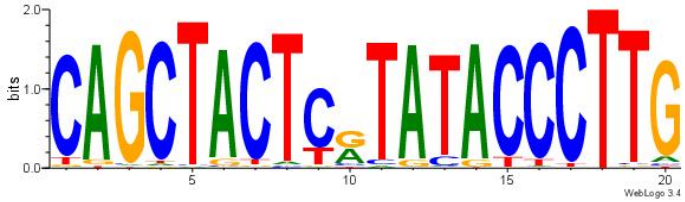

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.132302

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-MGAAGGGACTTGCCTTGT-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

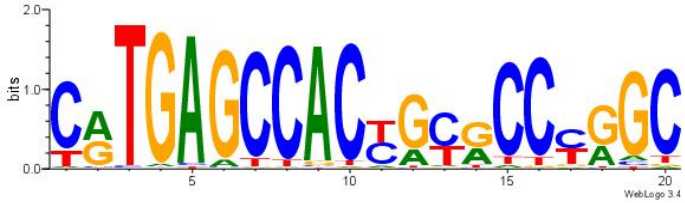

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

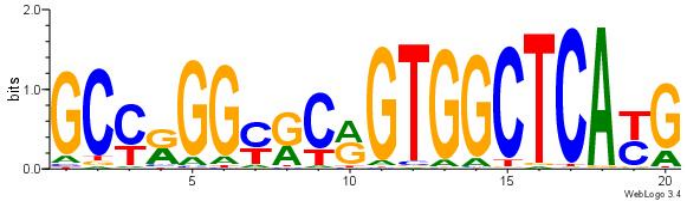

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.132567

Alignment:

```
TACCTGAGACTGGGTAATTT
-MGAAGGGACTTGCCTTGT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

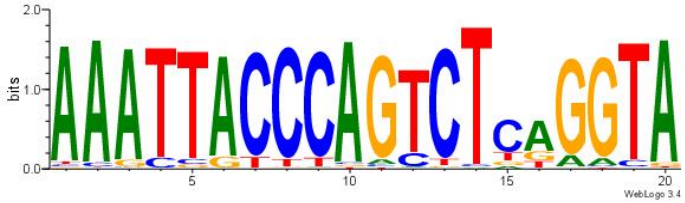

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

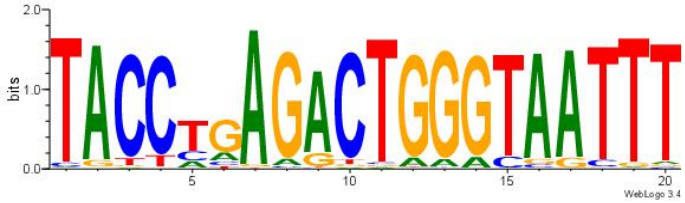

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.133166

Alignment:
ATATTGATGATCCTGACC
ACAAGGCAAGTCCCTTCY

Original motif Consensus sequence: ATATTGATGATCCTGACC

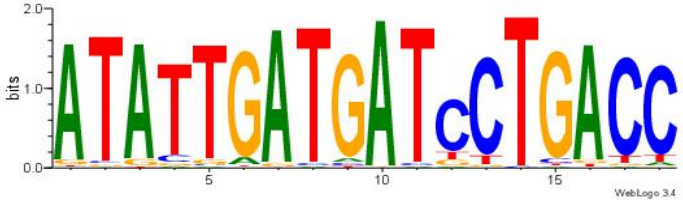

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

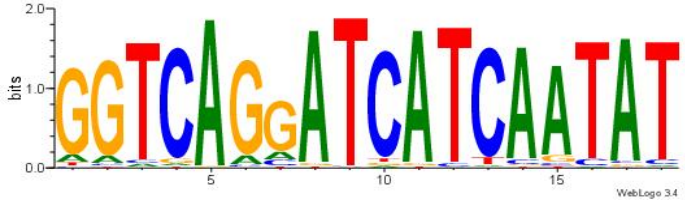

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.13427

Alignment:
AAAATCACAAGCATTCCTAT
ACAAGGCAAGTCCCTTCY--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

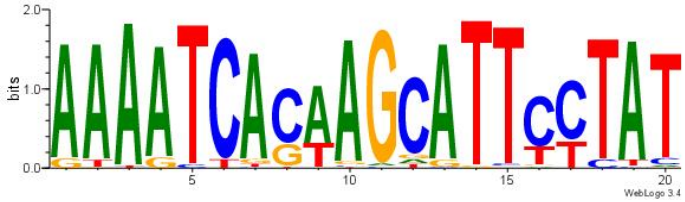

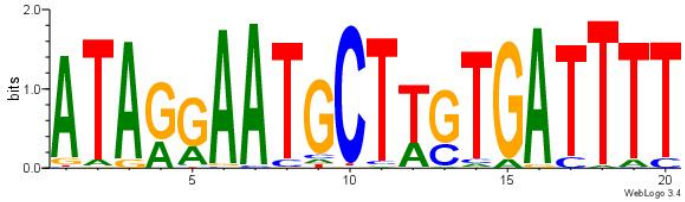

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.134493

Alignment:

```
CCCYAATACTGCGCTTTTC
MGAAGGGACTTGCCTTGT-
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

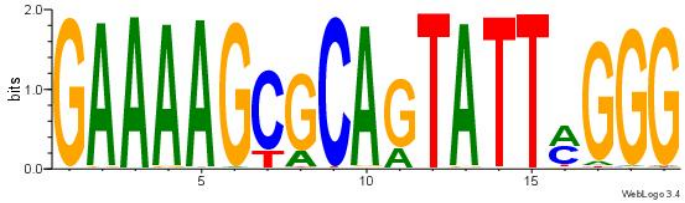

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

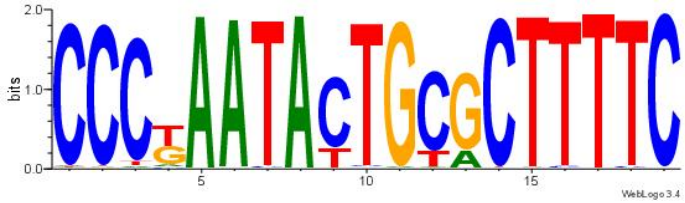

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.135648

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-MGAAGGGACTTGCCTTGT
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

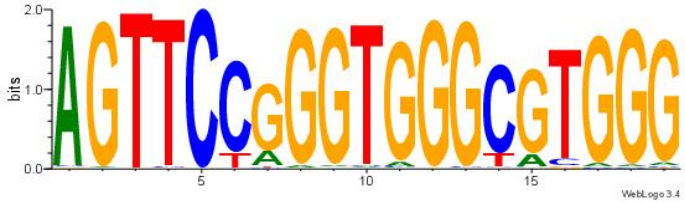

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

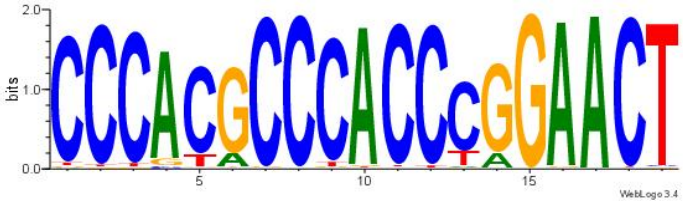

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.135779

Alignment:
AGAAATCGAGCRCAGCGCCG
ACAAGGCAAGTCCCTTCY--

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

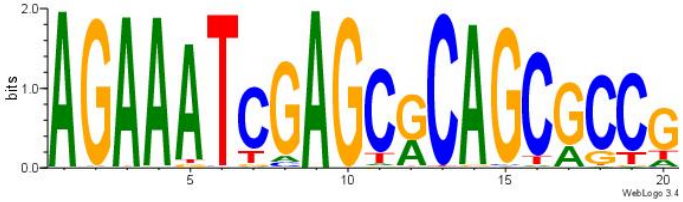

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

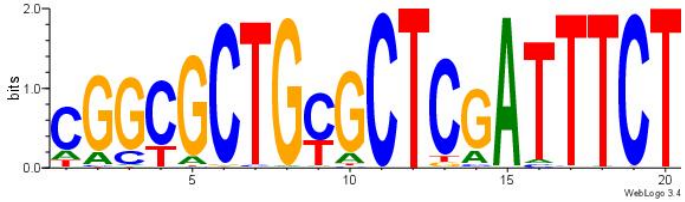

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.136181

Alignment:
ACTTTGGACTGTGGACTTTT
--MGAAGGGACTTGCCTTGT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

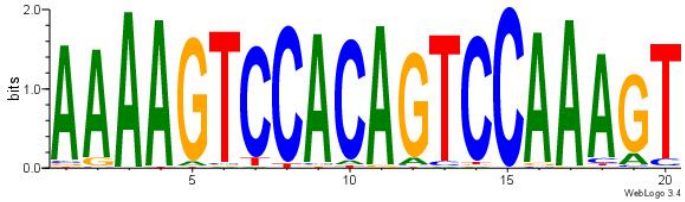

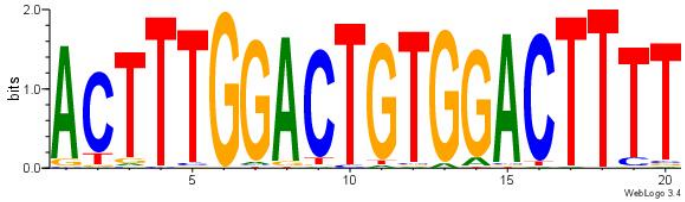

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.136978

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-MGAAGGGACTTGCCTTGT-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

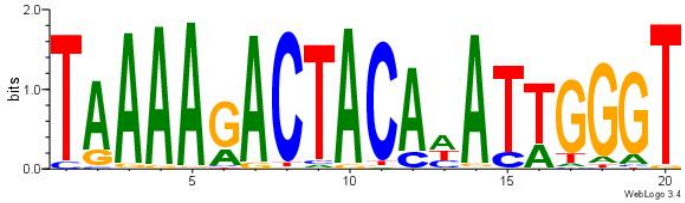

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

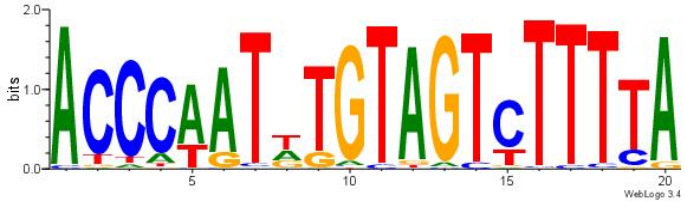

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.137297

Alignment:

```
CAAGCGCCAGCTCATGTC
ACAAGGCAAGTCCCTTCY
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

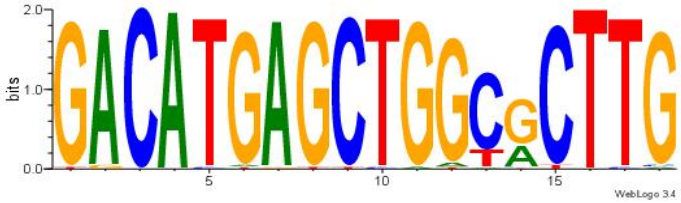

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

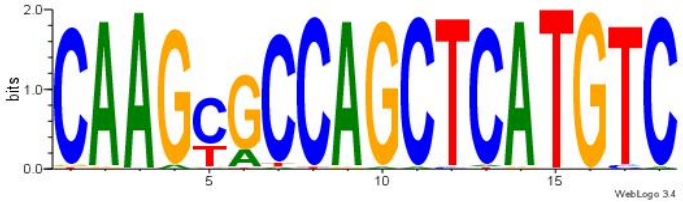

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.139214

Alignment:
AGGCCCCAGTGTSTGTTGTT
-MGAAGGGACTTGCCTTGT-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

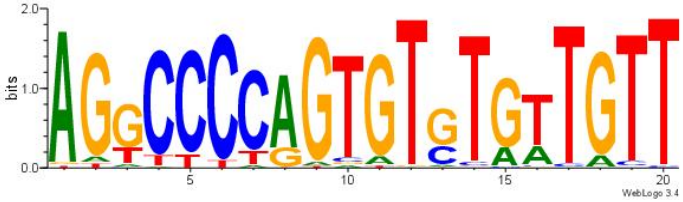

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

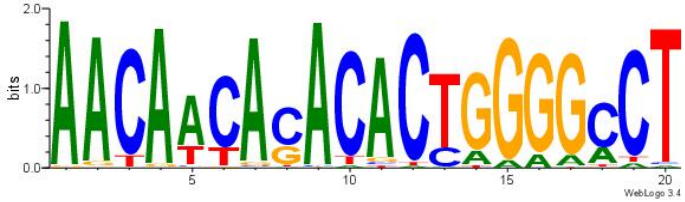

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.140174

Alignment:
TCAATGGGCTCCCAAATG
MGAAGGGACTTGCCTTGT

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

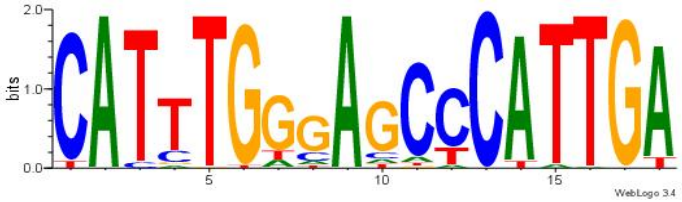

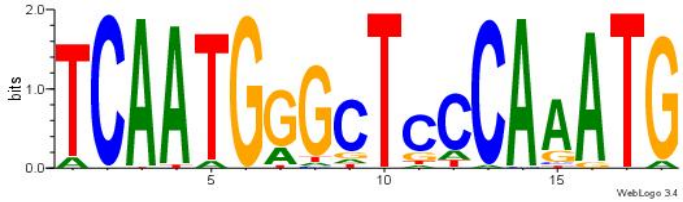

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.140639

Alignment:

```
ACAGGCTTTGTGTGAGCA
ACAAGGCAAGTCCCTTCY
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

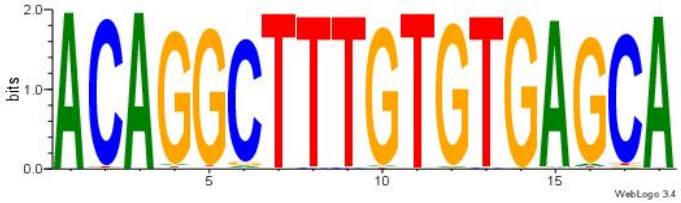

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

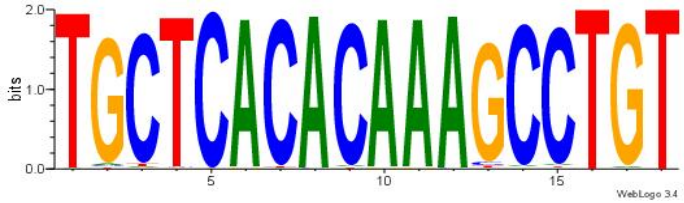

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.142221

Alignment:

```
AAAGCTGGAGCTATTATCTA
-ACAAGGCAAGTCCCTTCY-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

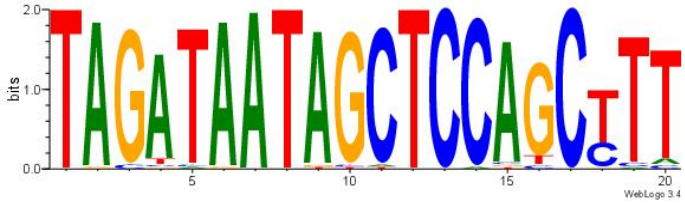

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

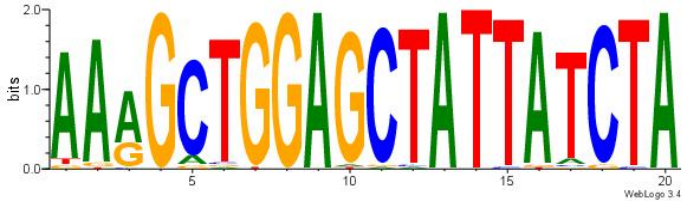

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.142323

Alignment:
KCCGGGCCTTAGCTGCCTTC
--ACAAGGCAAGTCCCTTCY

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

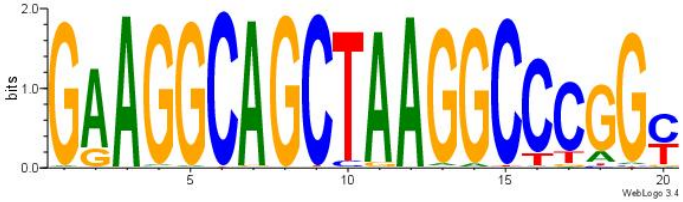

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

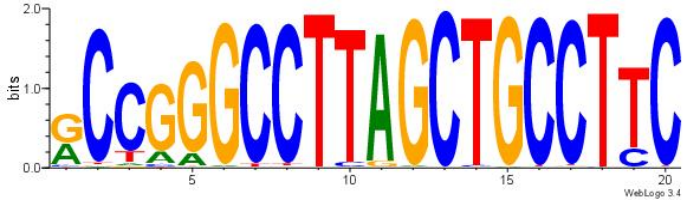

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.143061

Alignment:
CAAGTTGACACATAAAATTA
--MGAAGGGACTTGCCTTGT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

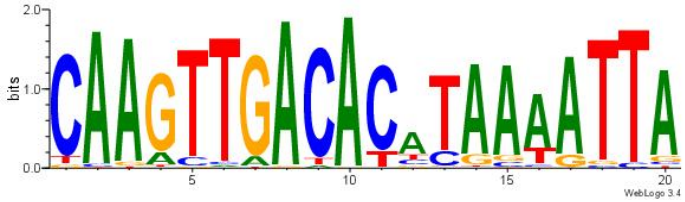

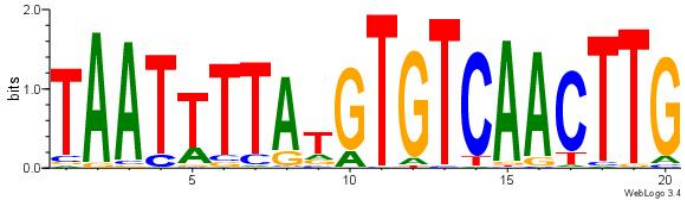

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.14402

Alignment:

```
GCTGGCCCKGGTGCTAAGC
-ACAAGGCAAGTCCCTTCY
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

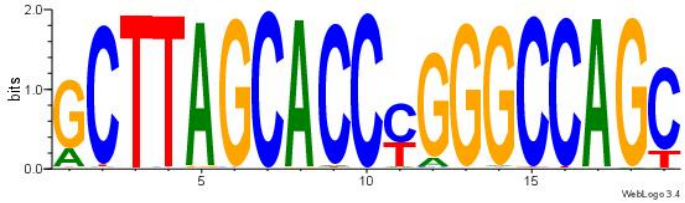

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

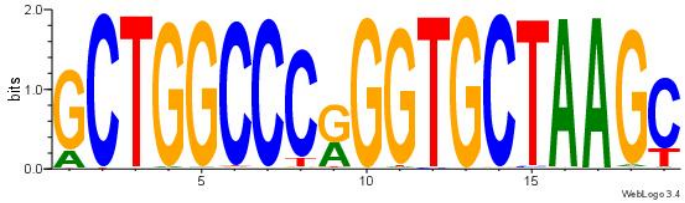

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.144151

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
MGAAGGGACTTGCCTTGT--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

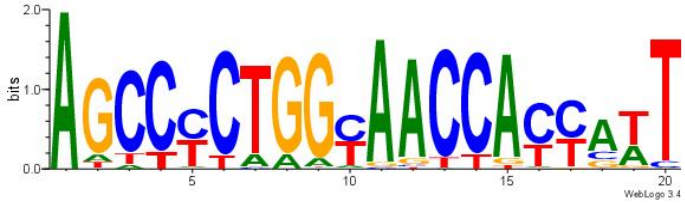

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

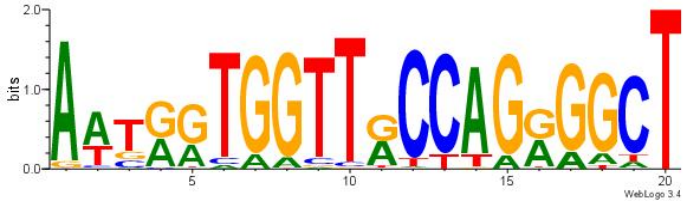

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.144166

Alignment:
ATAAAAACTTGCTGGTTTT
-ACAAGGCAAGTCCCTTCY

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

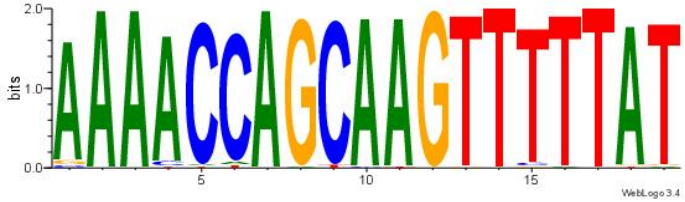

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

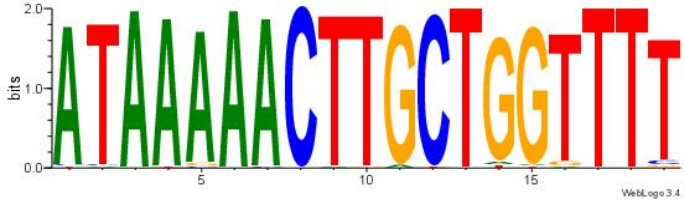

Dataset #: 1 Motif ID: 232 Motif name: Motif 232

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

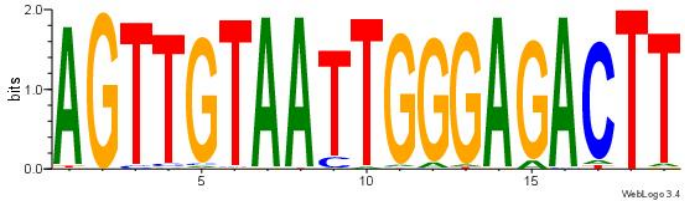

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

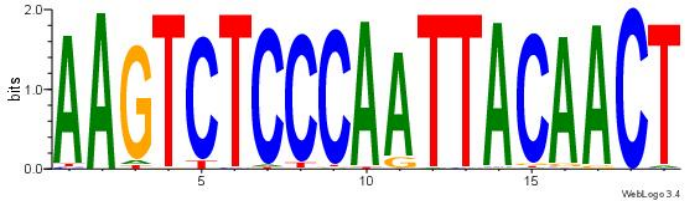

Best Matches for Motif ID 232 (Highest to Lowest)

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0998938

Alignment:

```
ATGTAACCAAAYACCACCTG
AAGTCTCCCAATTACAACT-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

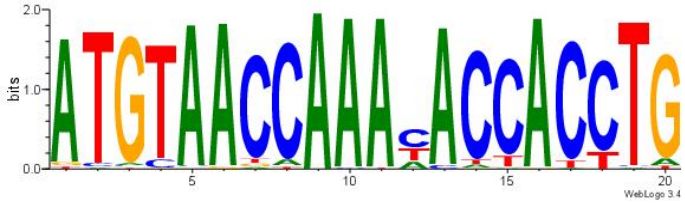

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

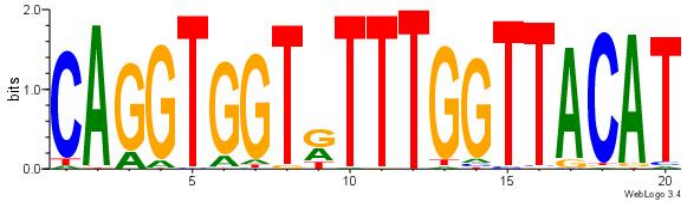

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.102119

Alignment:

ACTGTCTTCCACCTCCACAT
AAGTCTCCCAATTACAACT-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

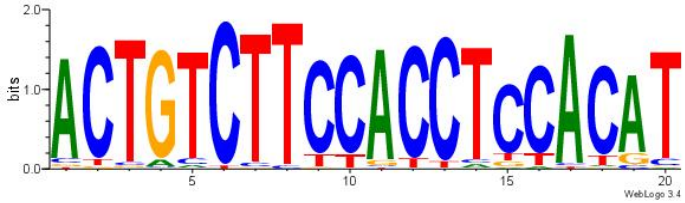

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

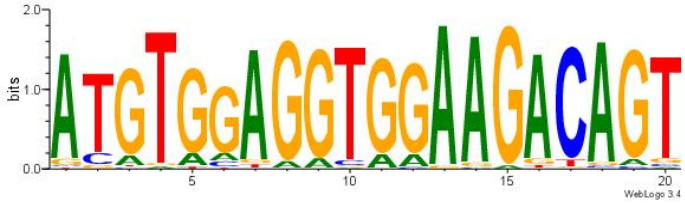

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.103158

Alignment:
GTTATTAATTGGCCTAATTT
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

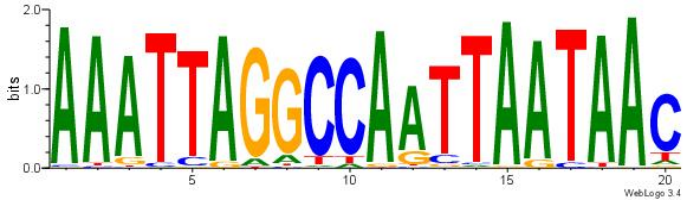

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.107769

Alignment:

```
GCTCCACCCAGTTCGAGCTT
AAGTCTCCCAATTACAACT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

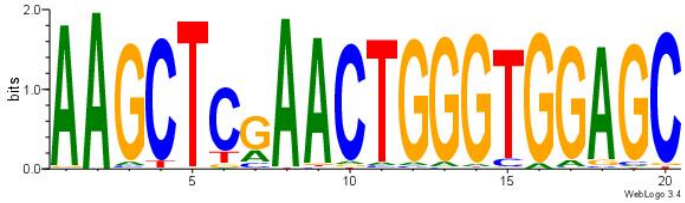

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

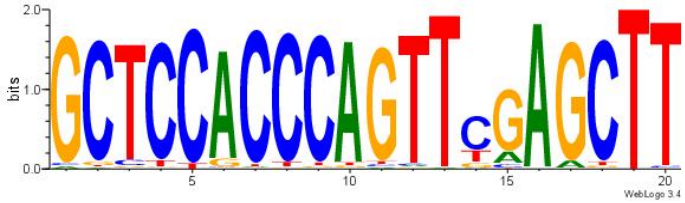

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.109016

Alignment:

```
TACCTGAGACTGGGTAATTT
AGTTGTAATTGGGAGACTT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

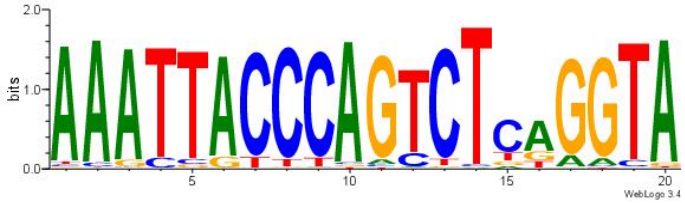

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

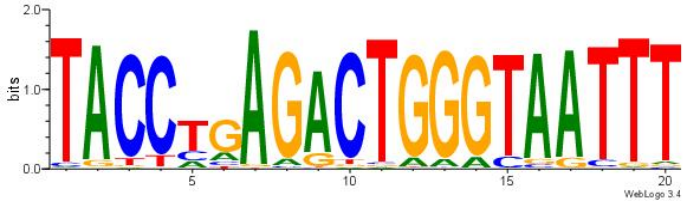

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.112715

Alignment:
AAAAGTCCACAGTCCAAAGT
-AAGTCTCCCAATTACAACT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

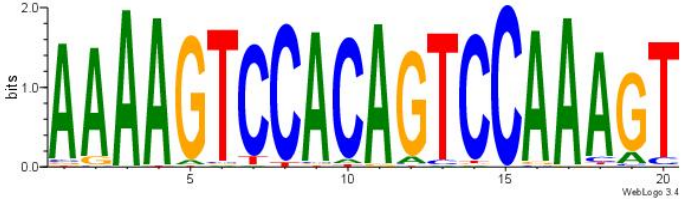

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

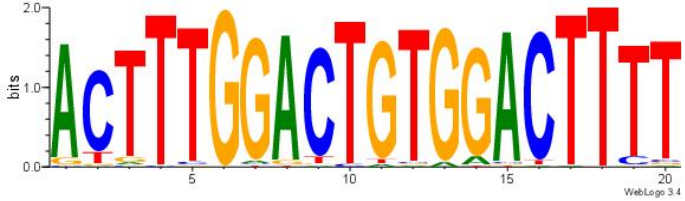

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.113079

Alignment:
AATTAAAAGACACAGACTG
AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

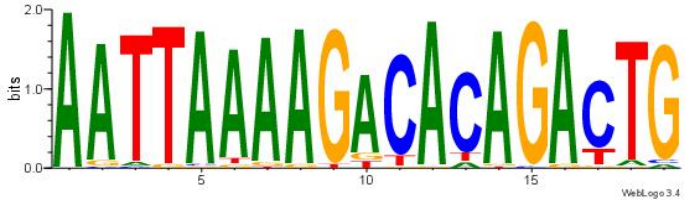

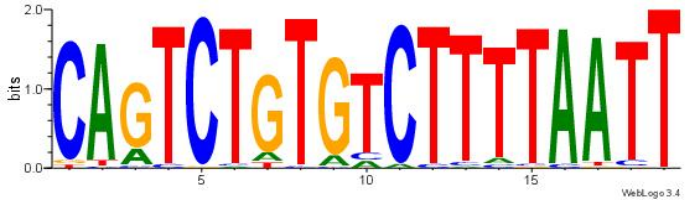

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.120843

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
AGTTGTAATTGGGAGACTT-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

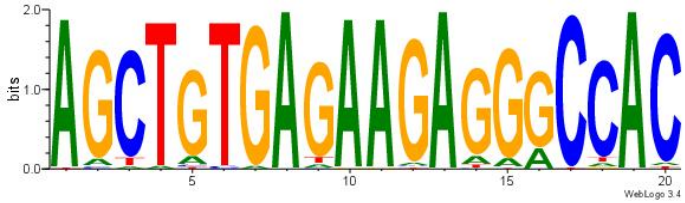

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

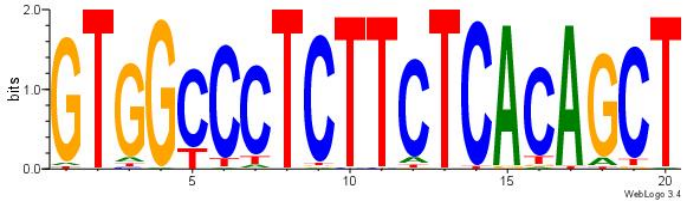

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12186

Alignment:

```
AGTTCCGGGTGGGCGTGGG
AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

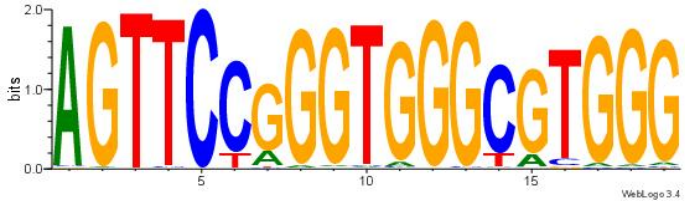

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

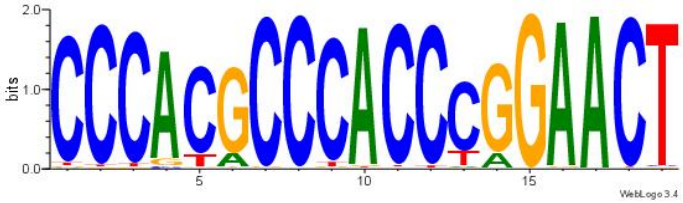

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.124321

Alignment:
AGATGCCAGCCAGAGCTCT
AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

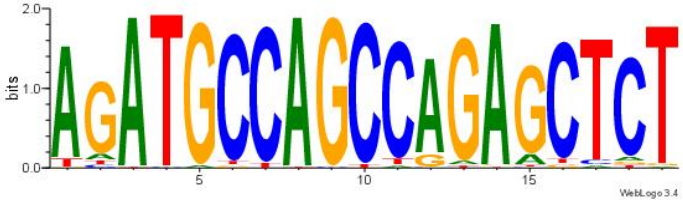

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

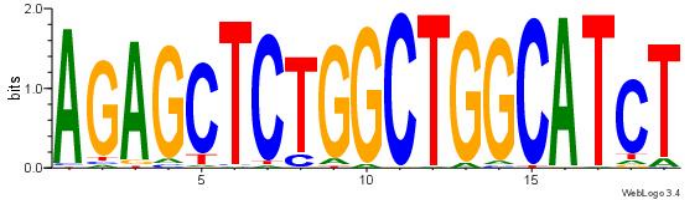

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.124373

Alignment:
TAATTTTATGTGTCAACTTG
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

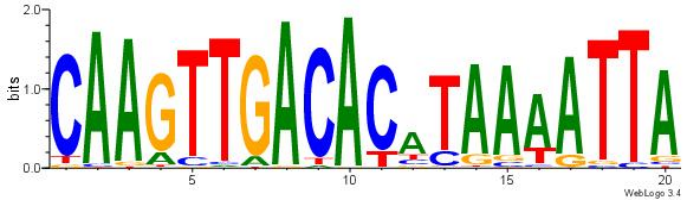

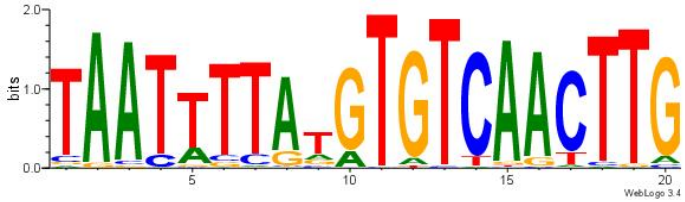

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.124522

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

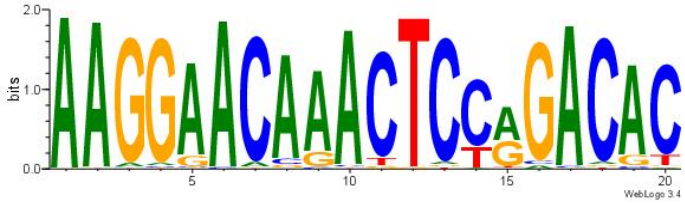

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

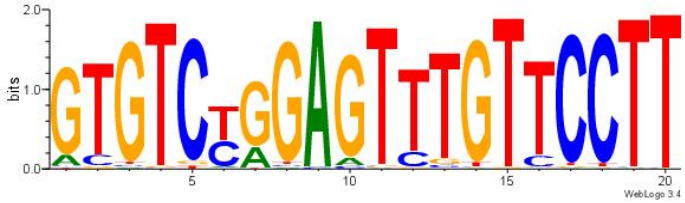

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125467

Alignment:

```
ATGATCCAGCAATYCCACTH
-AAGTCTCCCAATTACAACT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

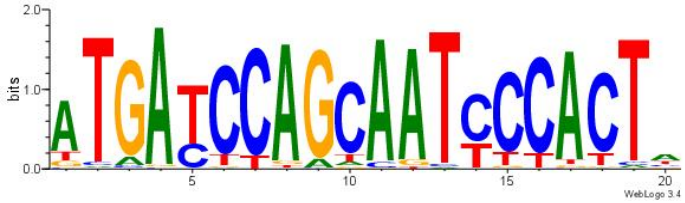

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

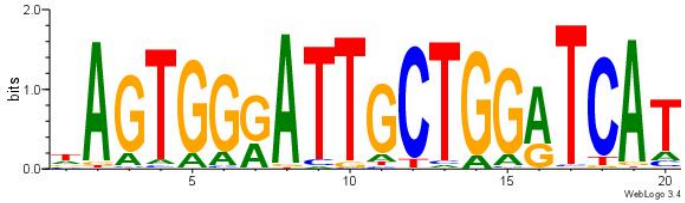

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.12605

Alignment:
AGTGAGAACATRYRRTRTTT
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

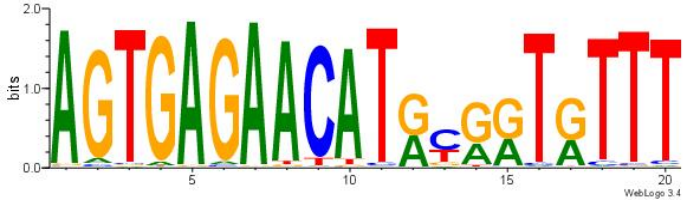

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

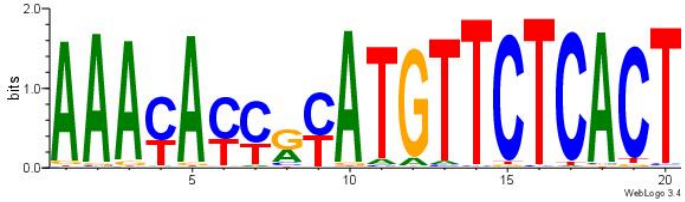

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.12605

Alignment:
ATGGCTGAATAKTATTCCAT
AAGTCTCCCAATTACAACT-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

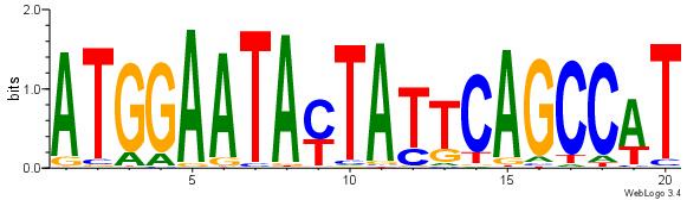

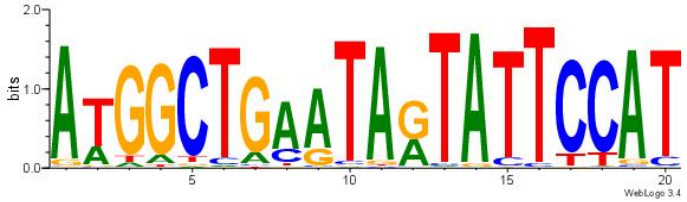

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.126397

Alignment:

```
AAGACCTTCCAGTGGGACAA
AAGTCTCCCAATTACAACT-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

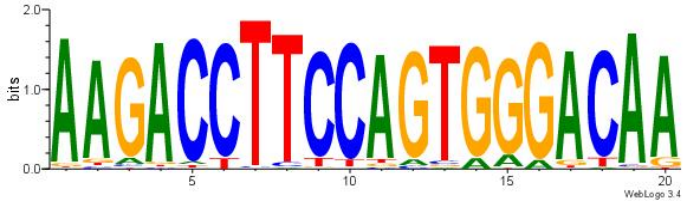

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

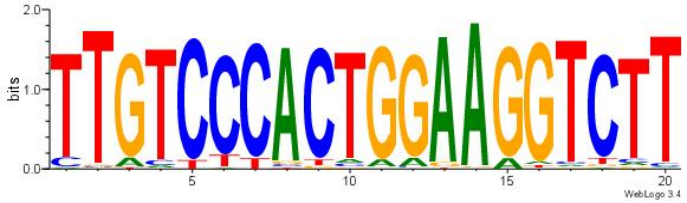

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.131196

Alignment:

```
CAAGCCTSKGCAATGGCAGG
-AAGTCTCCCAATTACAACT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

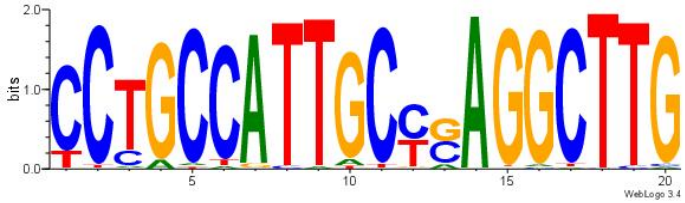

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

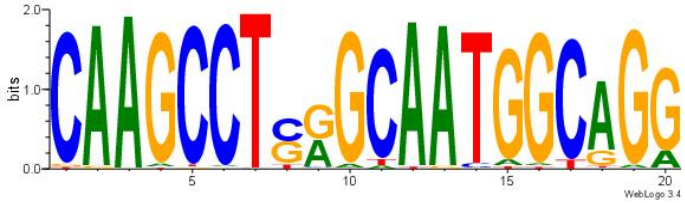

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.131301

Alignment:
ATGGACAYTTRGGTTGHTTC
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

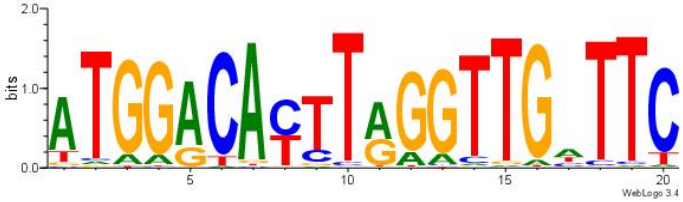

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

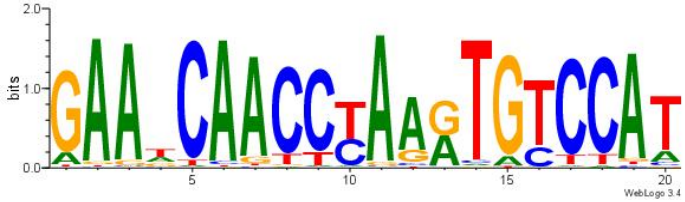

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132665

Alignment:
GTKTMTATMTACCACATTTT
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

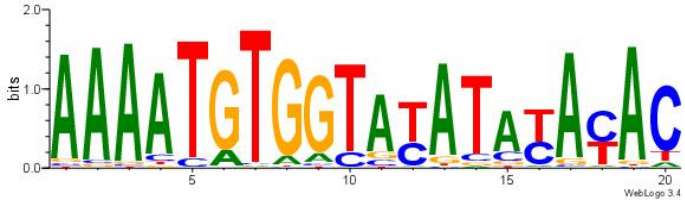

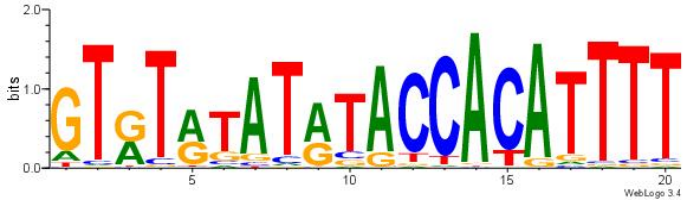

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.132825

Alignment:

```
GAAAGGGAACTCCCTGACCC
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

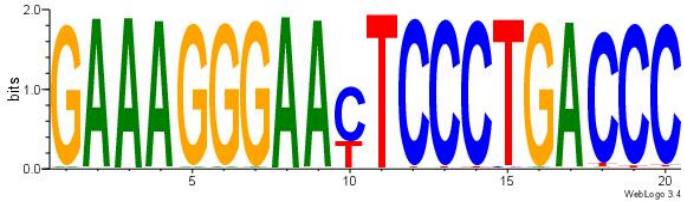

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

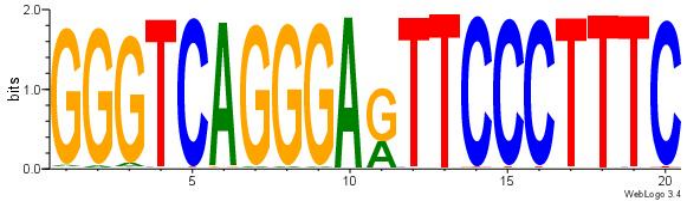

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133011

Alignment:
GGGTGCAGGMGGGCTGAGT
AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

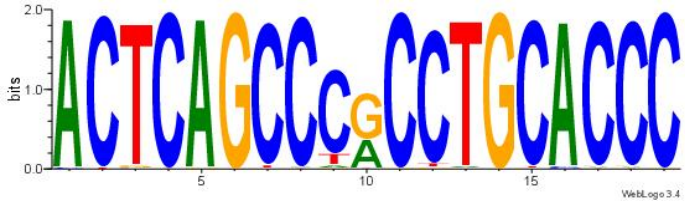

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

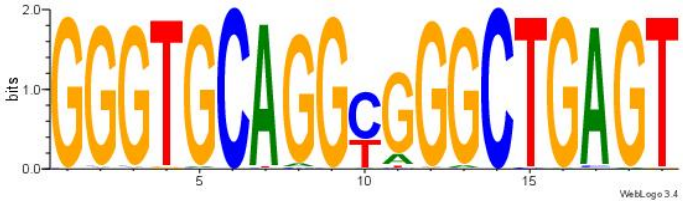

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.133833

Alignment:
AWTKKTGGTTKCCAGKGGCT
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

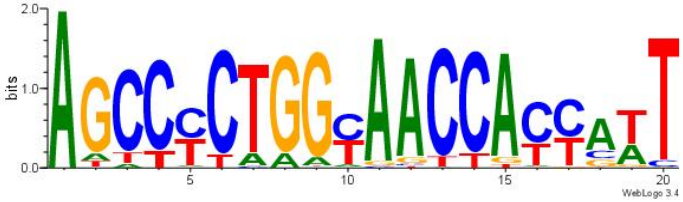

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

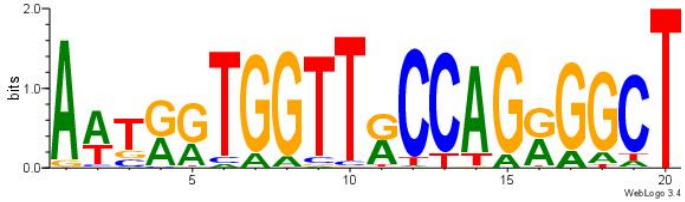

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.135319

Alignment:
AGCTCCCAGCGTGAGCGACG
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

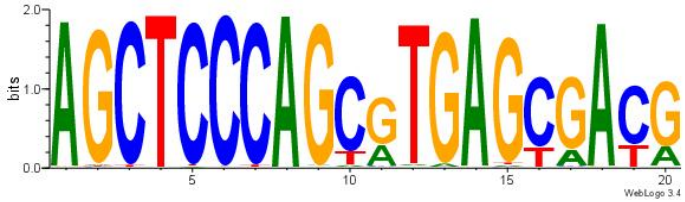

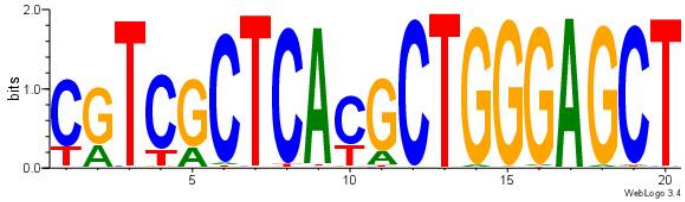

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135659

Alignment:

```
TAGATAATAGCTCCAGCTTT
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

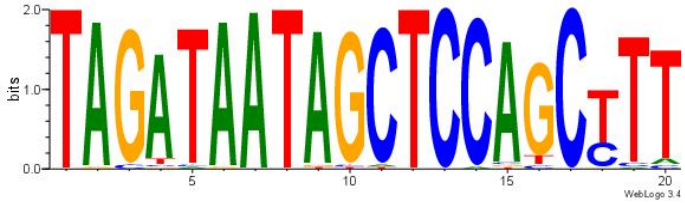

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

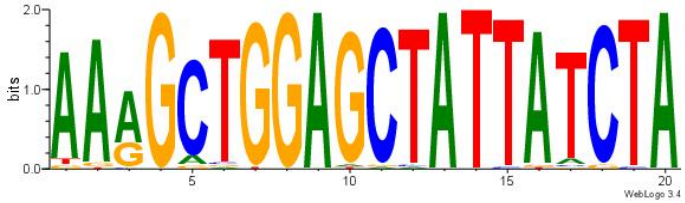

Dataset #:	1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136148

Alignment:

```
GTTTAACCATTGAGGGCCAG
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

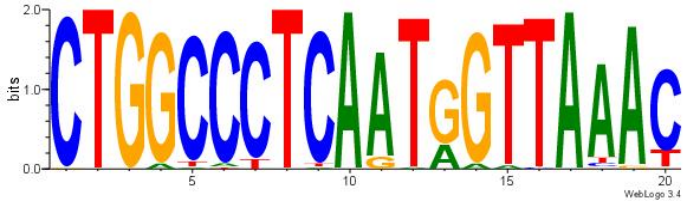

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

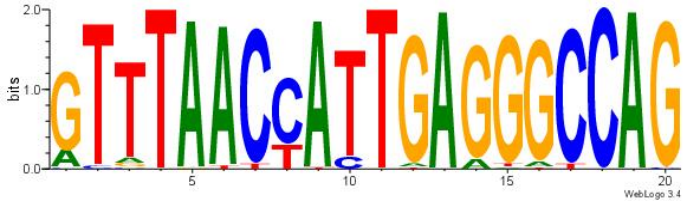

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.136358

Alignment:
KCCGGGCCTTAGCTGCCTTC
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

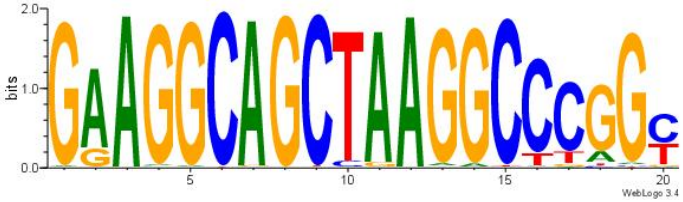

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

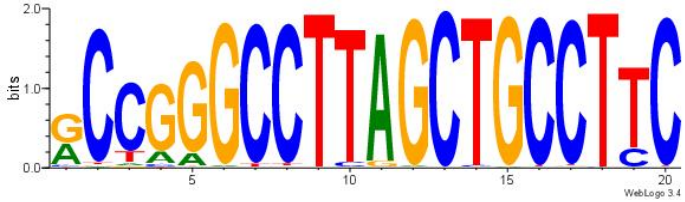

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.136647

Alignment:
CCCATGCAAGTCYRAAATCC
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

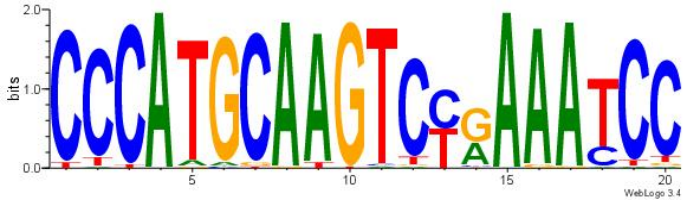

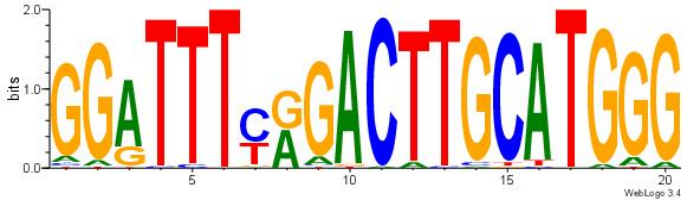

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136815

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

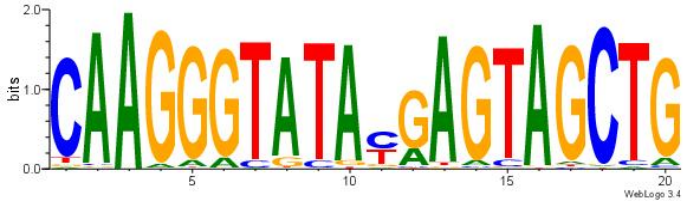

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

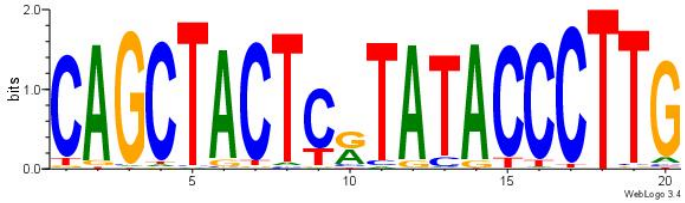

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.137055

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

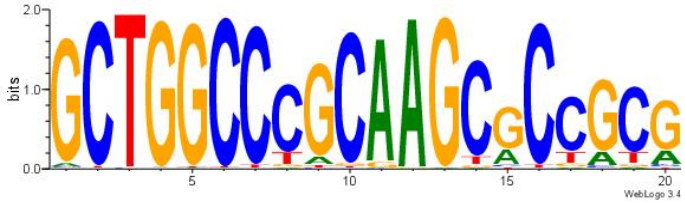

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

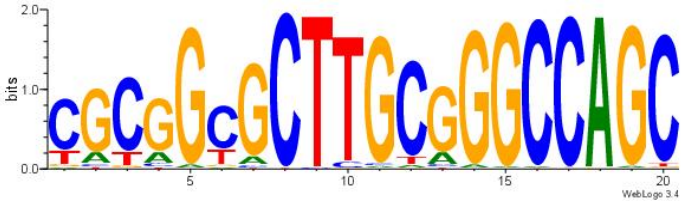

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.137326

Alignment:
AAGAGGTTTAATTGRCTCA
AAGTCTCCCAATTACAACT

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

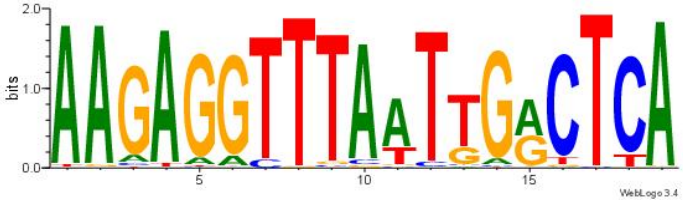

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

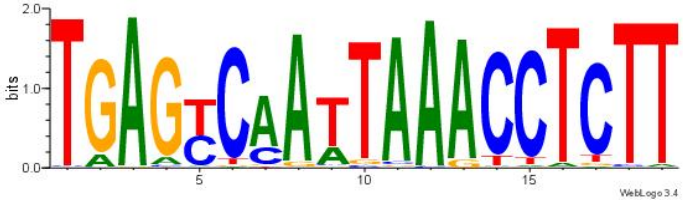

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.137559

Alignment:
AGTGACCCGATTTTCCAGGT
AAGTCTCCCAATTACAACT-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

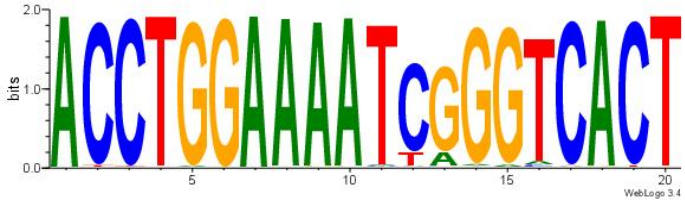

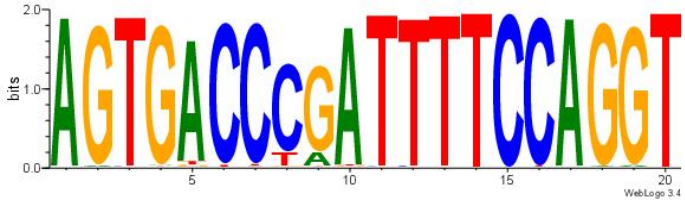

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138161

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

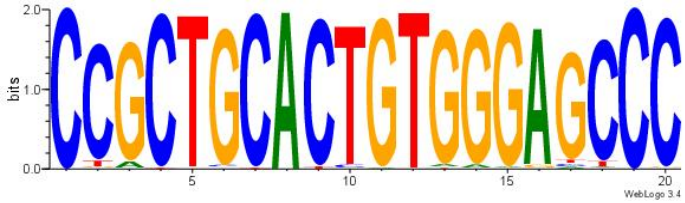

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

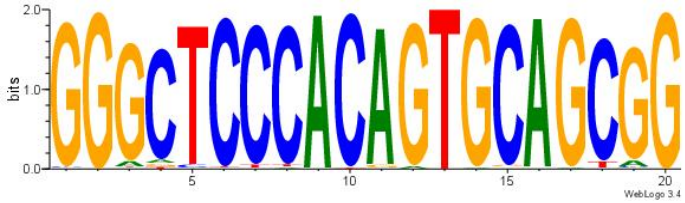

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.138575

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGTTGTAATTGGGAGACTT-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

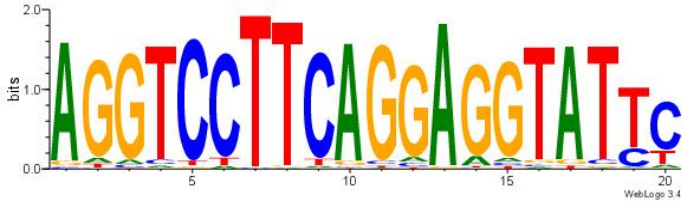

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

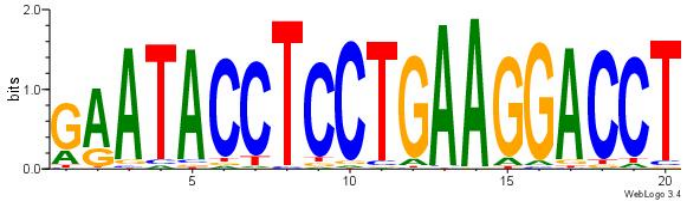

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.138694

Alignment:
ATAAAAACTTGCTGGTTTT
AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

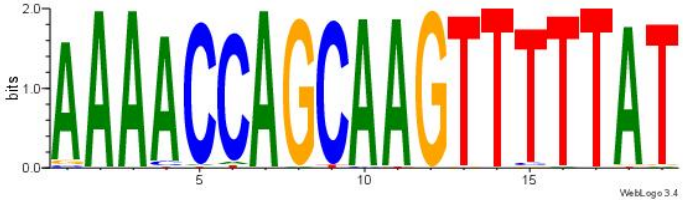

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

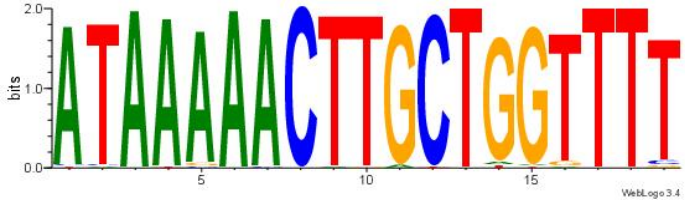

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.139082

Alignment:
AGGCCCCAGTGTSTGTTGTT
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

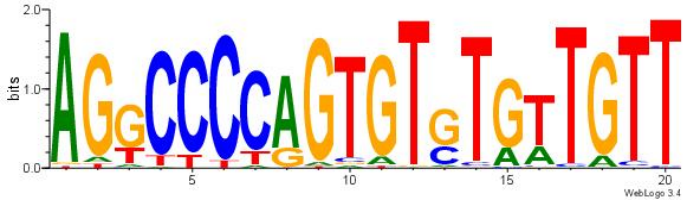

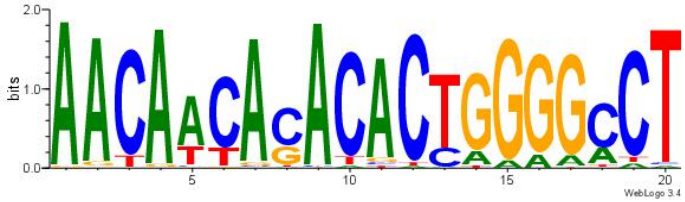

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139312

Alignment:

```
ATAGGAATGCTTGTGATTTT
AGTTGTAATTGGGAGACTT-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

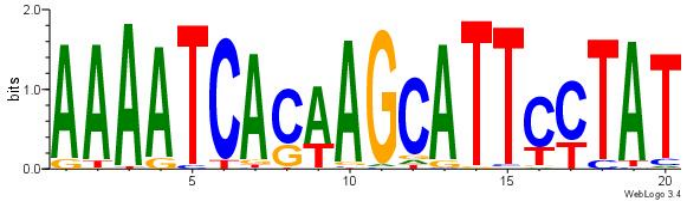

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

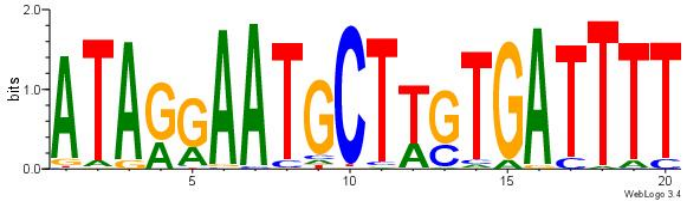

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139352

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

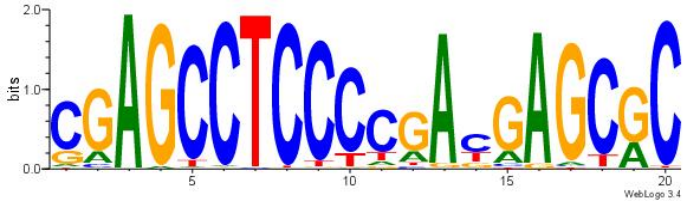

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

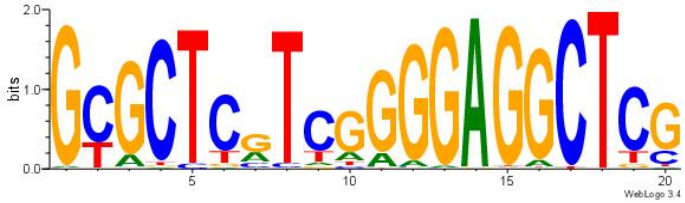

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.139835

Alignment:
TTTYTWTTTTTTYTWGAGAC
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

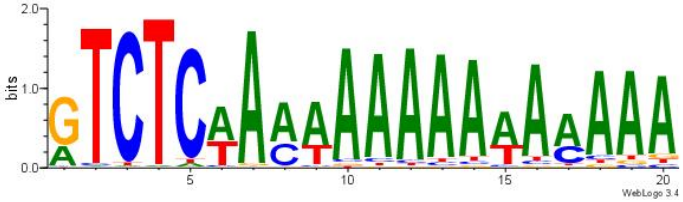

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

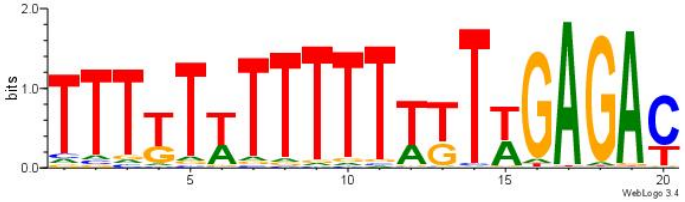

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.141144

Alignment:
KKCACCTTGATCTTGGACTT
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

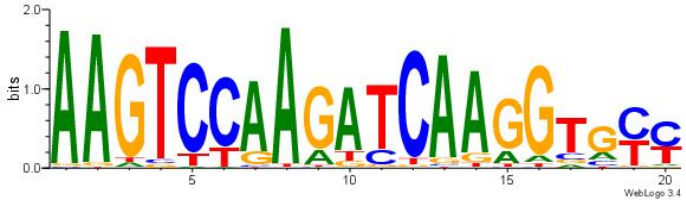

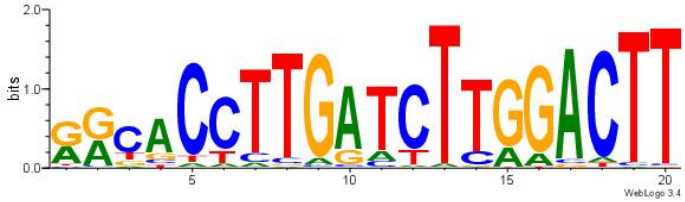

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.142377

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

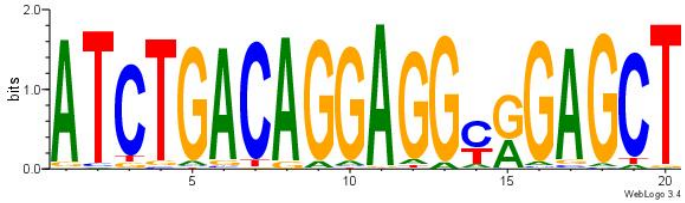

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

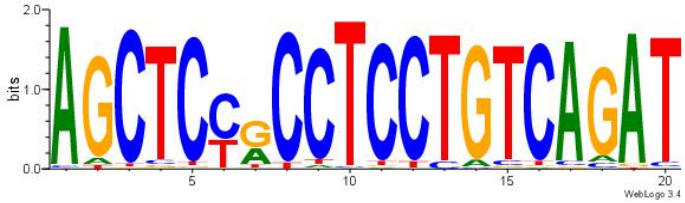

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.142759

Alignment:

```
AGGTTTGTTACATAGGTAWA
-AAGTCTCCCAATTACAACT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

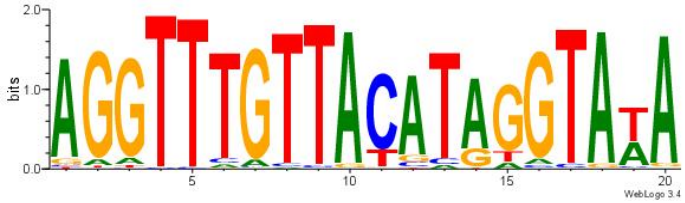

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

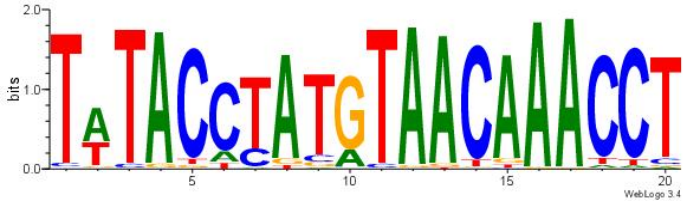

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.145517

Alignment:
CCTAGATTTCAGARGATGT
AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

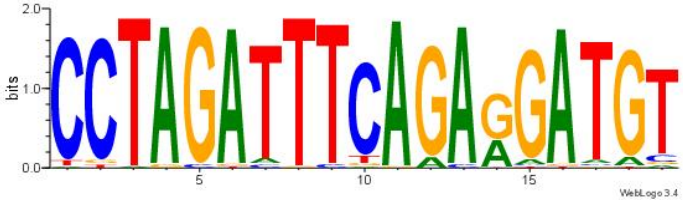

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

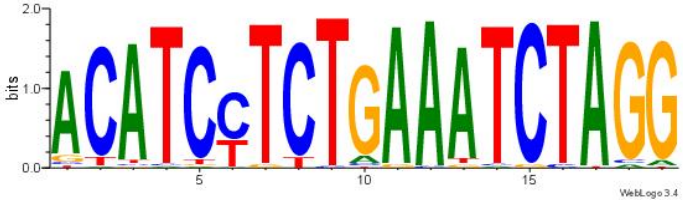

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.147181

Alignment:
GAAACTGCTTTGTGATGTGT
AGTTGTAATTGGGAGACTT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

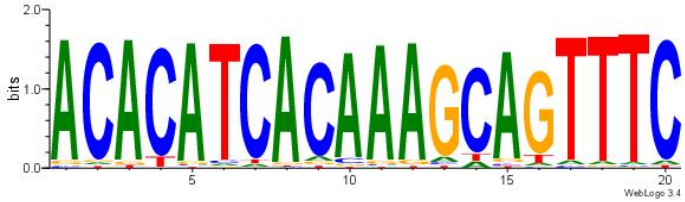

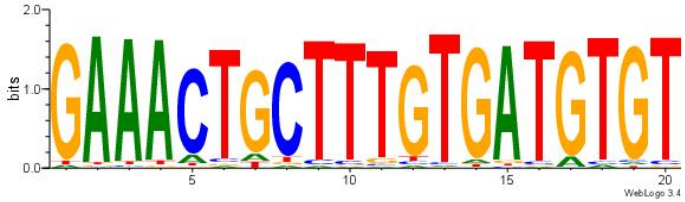

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.147435

Alignment:

```
AGTAGGTGCTCARTAAATRB
AGTTGTAATTGGGAGACTT-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

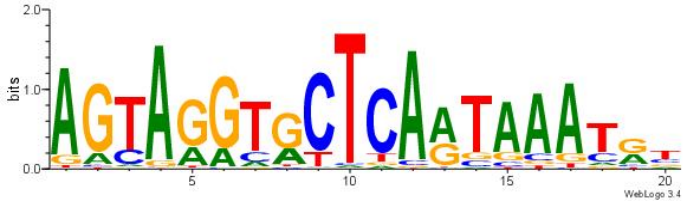

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

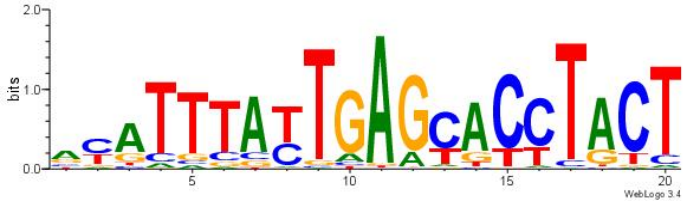

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.147476

Alignment:

```
TGGCTTCACCCAGTGGATCC
-AAGTCTCCCAATTACAACT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

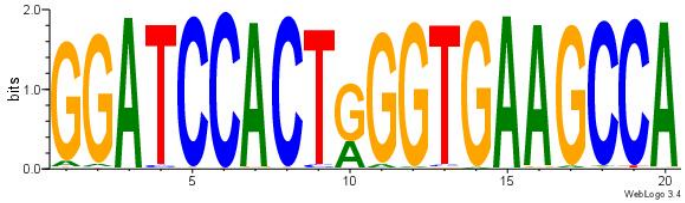

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

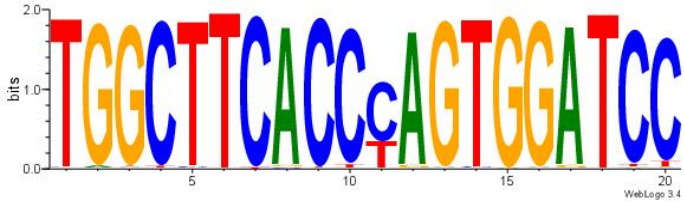

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.14751

Alignment:
ACTCCCTAGTGAGATGAACC
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

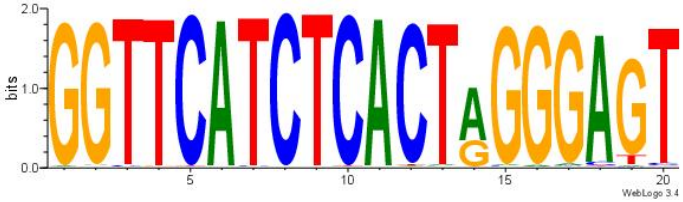

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

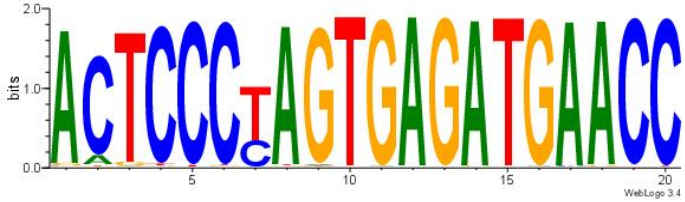

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.147544

Alignment:
MGTCTMKCTCTGTKGCCCAG
-AGTTGTAATTGGGAGACTT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

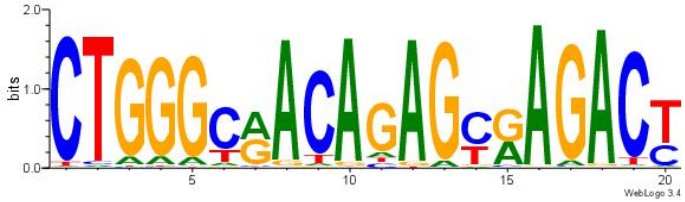

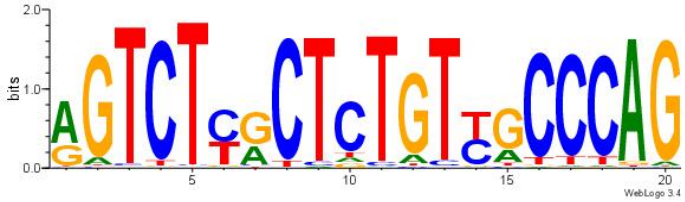

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.148683

Alignment:

```
GACTTCAAGAATGAAGCCG
AAGTCTCCCAATTACAACT
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

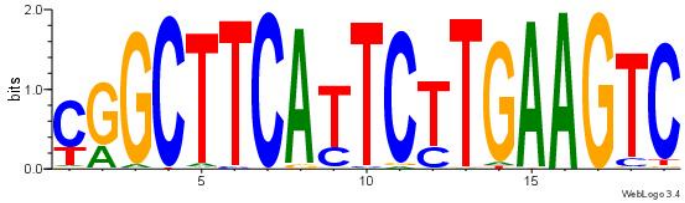

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.149725

Alignment:

```
GGCACTGCTGGGGGACCCAG
-AGTTGTAATTGGGAGACTT
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

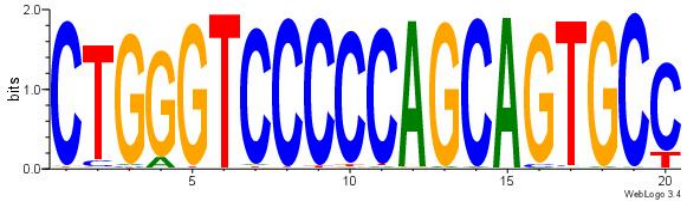

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

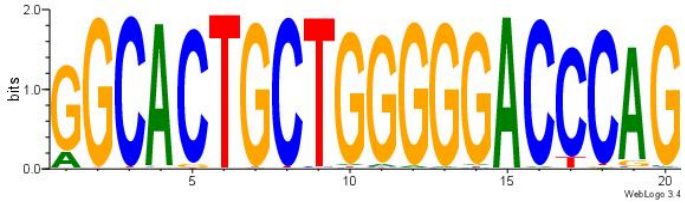

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.15

Alignment:
CTAGACATAAAGGTTCTCCA
AAGTCTCCCAATTACAACT-

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

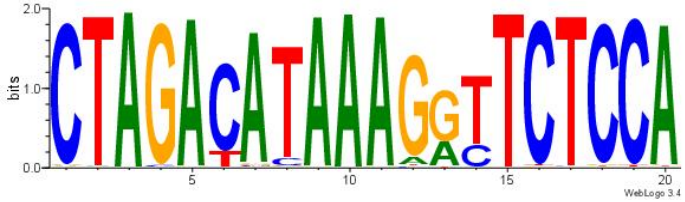

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

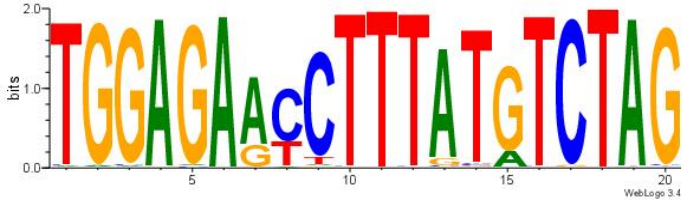

Dataset #: 1 Motif ID: 233 Motif name: Motif 233

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

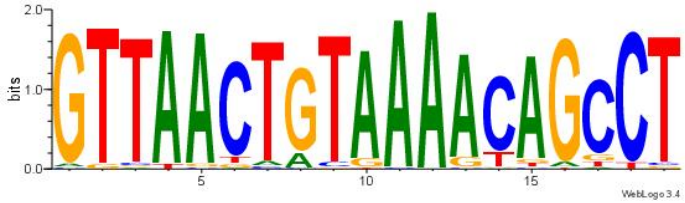

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

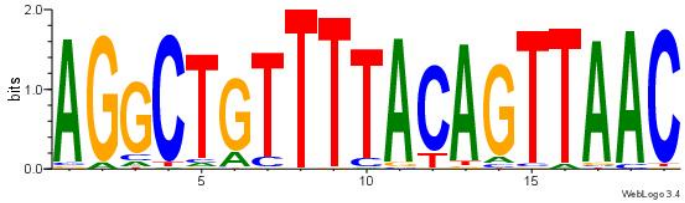

Best Matches for Motif ID 233 (Highest to Lowest)

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.105595

Alignment:

```
TWTACCTATGTAACAAACCT
-GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

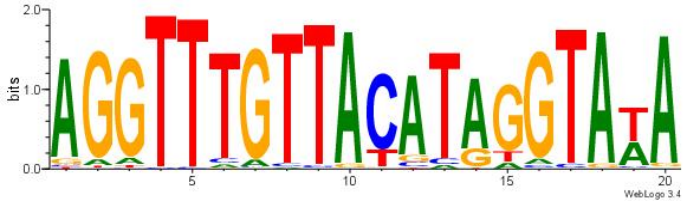

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

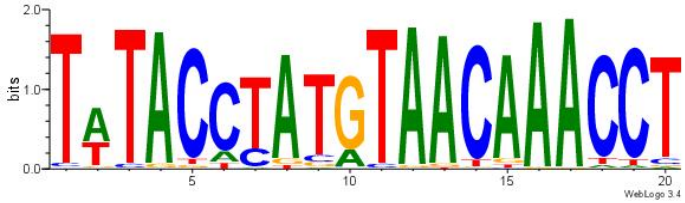

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.106073

Alignment:

ATGGAATAYTATTCAGCCAT
GTTAACTGTAAAACAGCCT-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

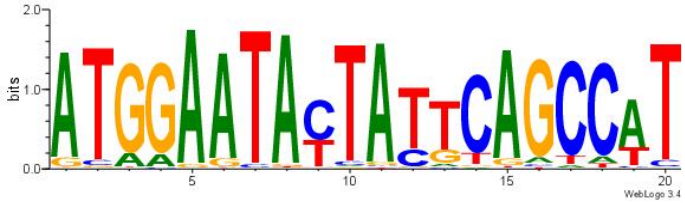

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

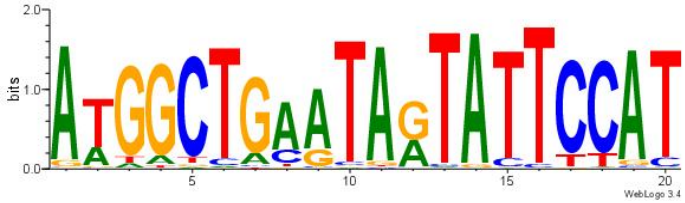

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.109762

Alignment:
AWTKKTGGTTKCCAGKGGCT
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

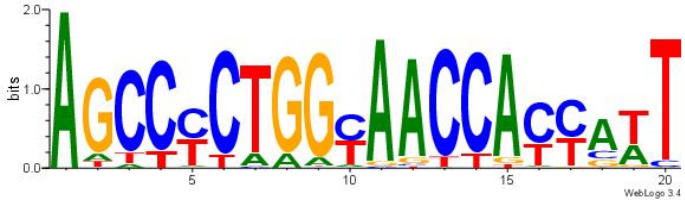

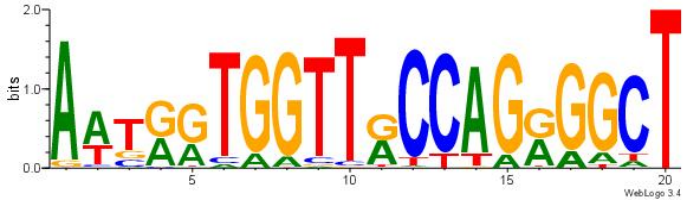

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.115112

Alignment:

```
GAATACCTCCTGAAGGACCT
GTTAACTGTAAAACAGCCT-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

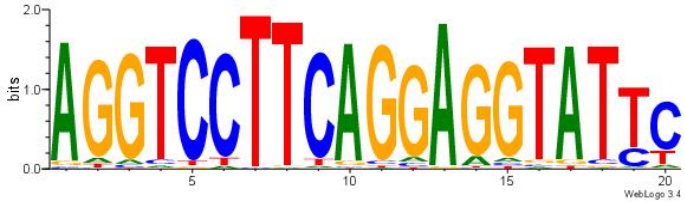

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

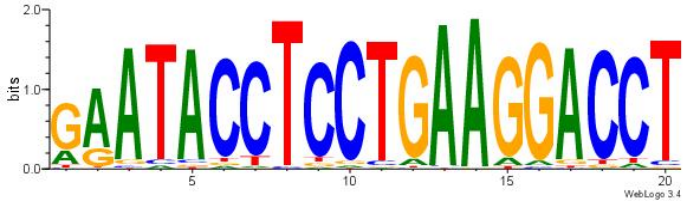

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116079

Alignment:
GTAGACKGGAGCTGTTCCT
GTTAACTGTAAAACAGCCT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

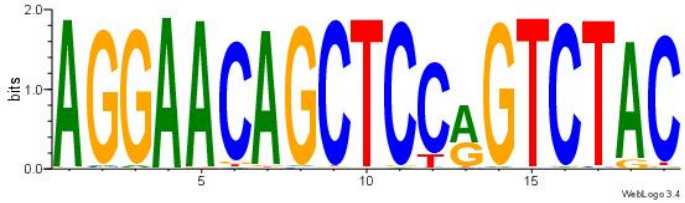

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

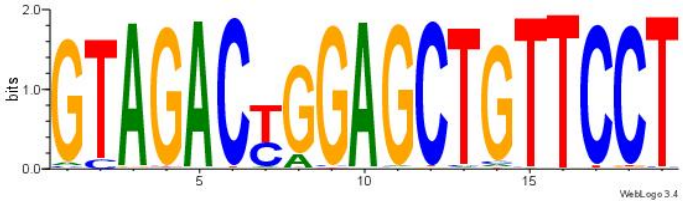

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.116299

Alignment:
CAGGTGGTKTTTGGTTACAT
AGGCTGTTTTACAGTTAAC-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

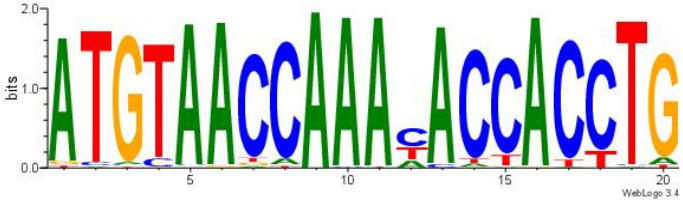

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

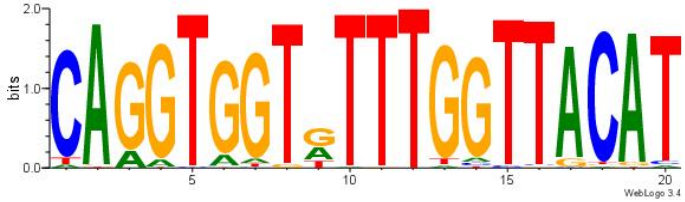

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.11693

Alignment:
AAAATGTGGTAYATAYAYAC
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

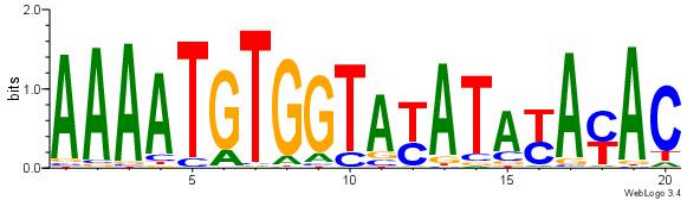

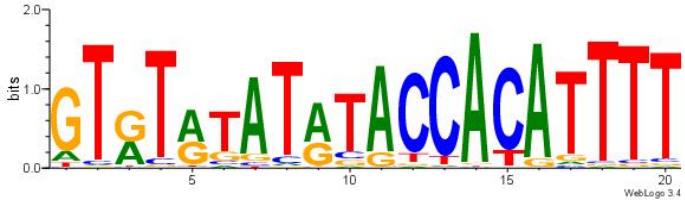

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.120226

Alignment:

```
GCGMGCGGGAACCGGGGCT
GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

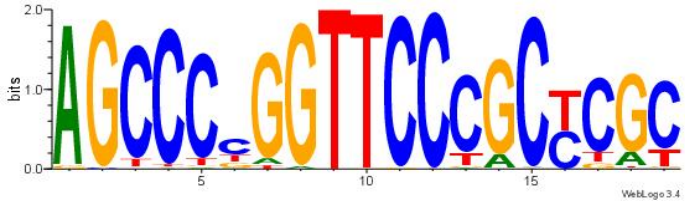

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

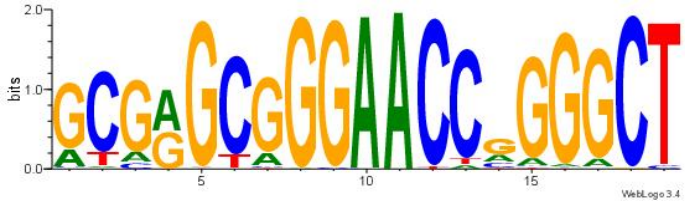

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.125471

Alignment:
ACACATCACAAAGCAGTTTC
GTTAACTGTAAAACAGCCT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

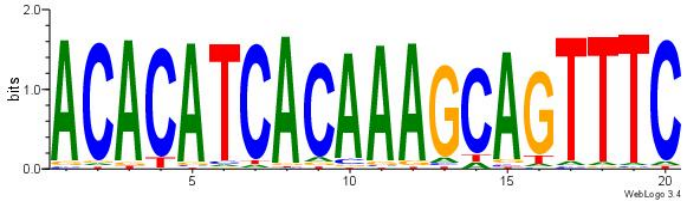

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

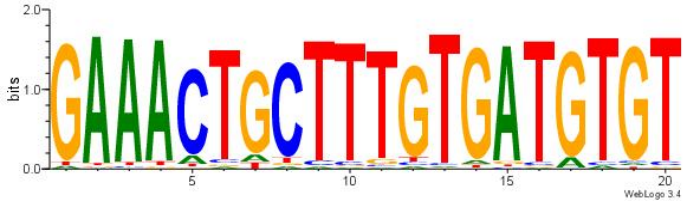

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.128115

Alignment:
HAGTGGKATTGCTGGATCAT
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

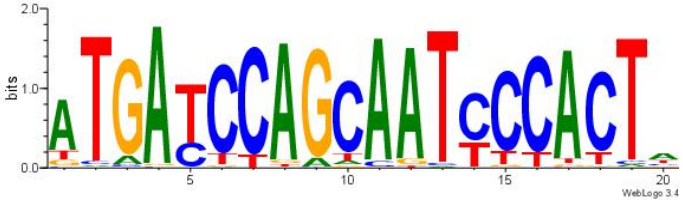

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

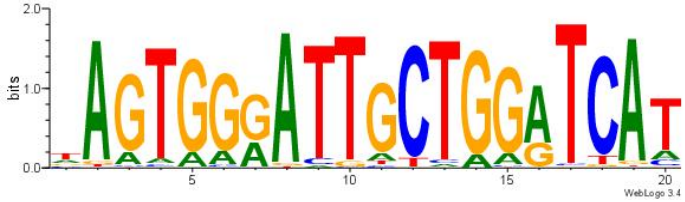

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.128504

Alignment:
CTGACTGGGAGACACCTCCC
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

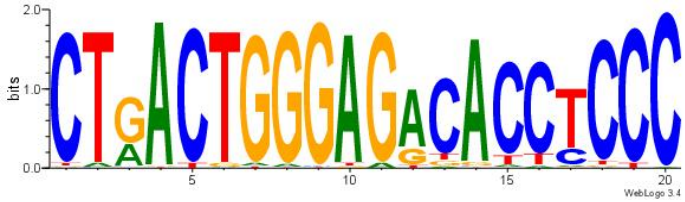

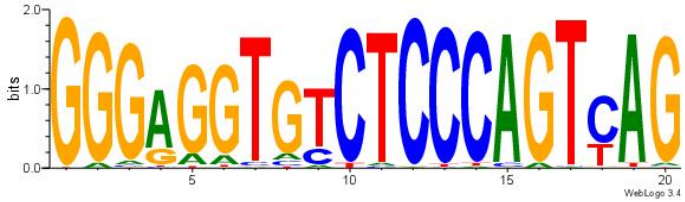

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.129765

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AGGCTGTTTTACAGTTAAC-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

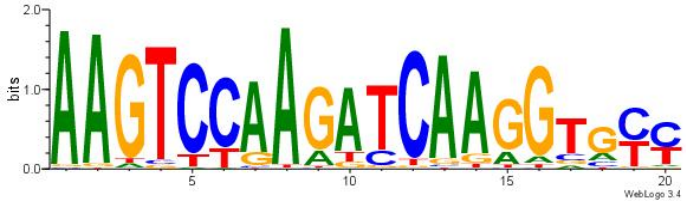

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

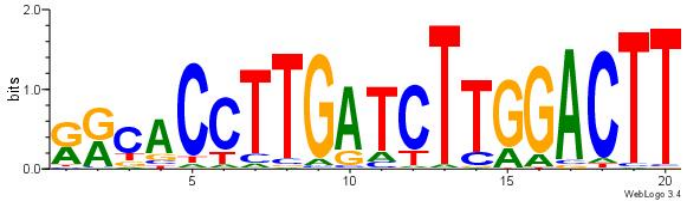

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130183

Alignment:

```
CAAASCKGTCATAGGCCAT
GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

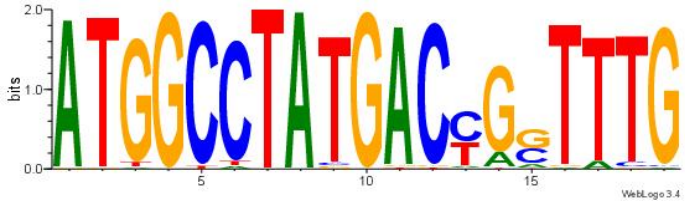

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

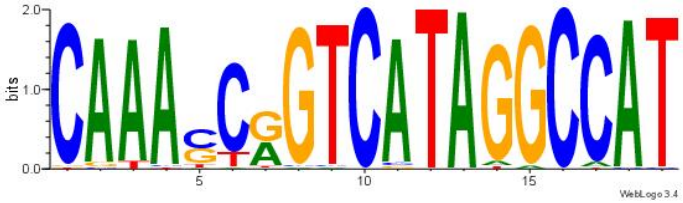

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.131405

Alignment:
CTGGCCCTCAATGGTTAAAC
AGGCTGTTTTACAGTTAAC-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

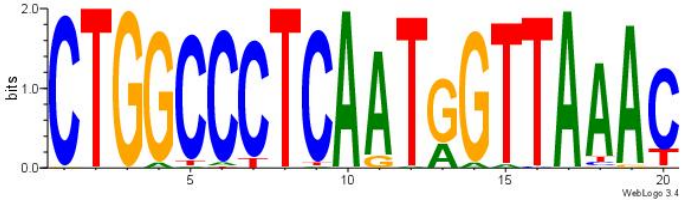

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

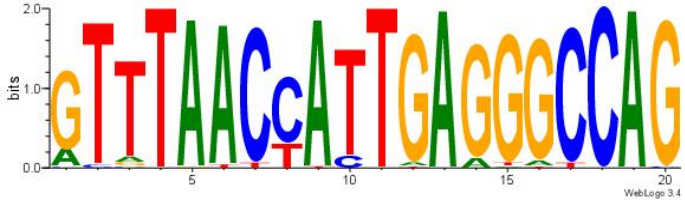

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.133037

Alignment:
GCCAGTCACAAAARGACAMA
GTTAACTGTAAAACAGCCT-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

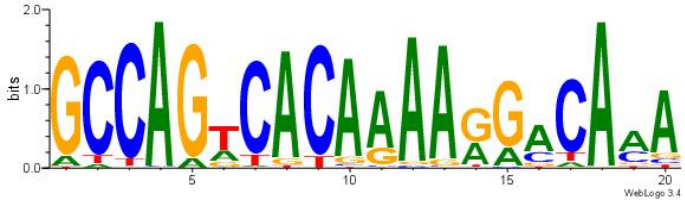

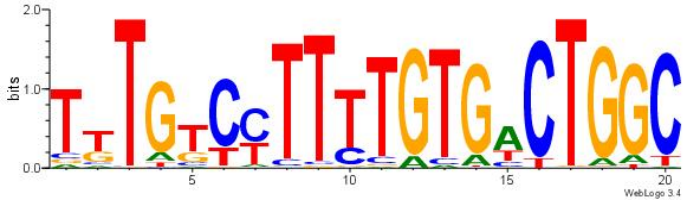

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133067

Alignment:

```
AAGAGGTTTAATTGRCTCA
AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

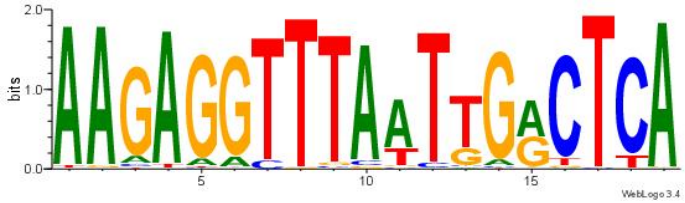

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

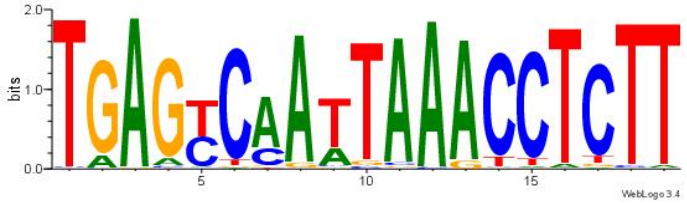

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133215

Alignment:

```
ACTCCCTAGTGAGATGAACC
AGGCTGTTTTACAGTTAAC-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

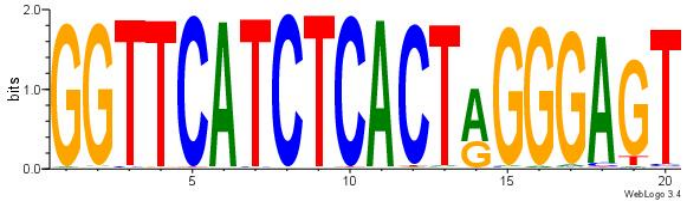

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

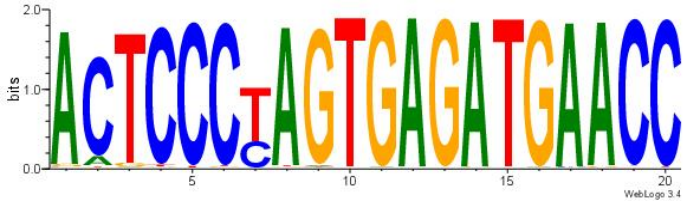

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.133566

Alignment:
GACTTCAAGAATGAAGCCG
GTTAACTGTAAAACAGCCT

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

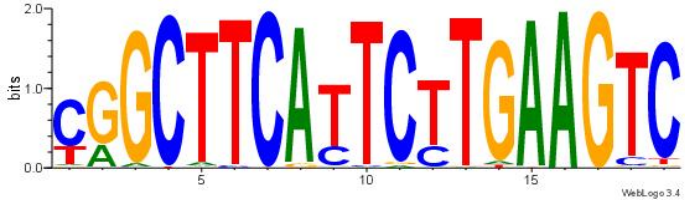

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.135078

Alignment:
AATGAKATCATGTCYTTTGC
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

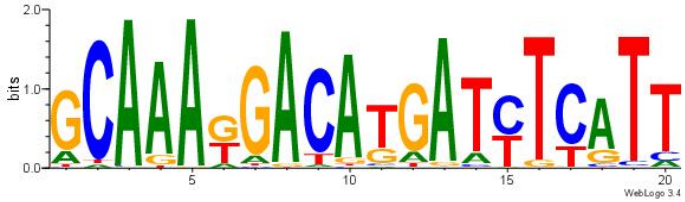

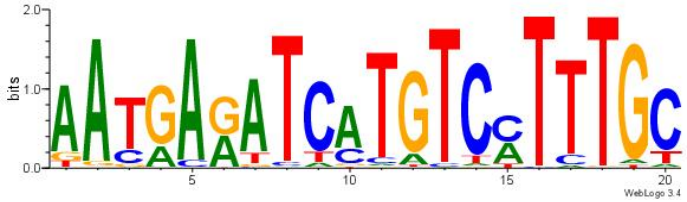

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.135087

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
-AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

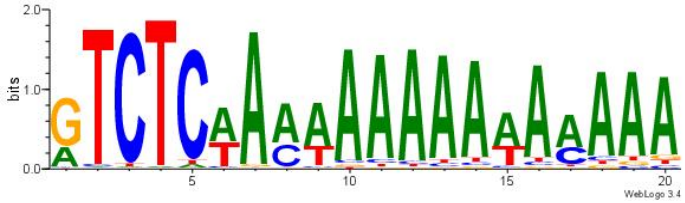

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

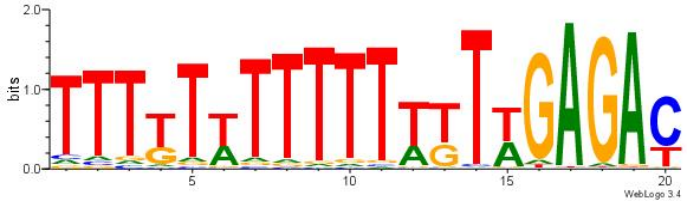

Dataset #:	1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135358

Alignment:

```
TGTGTGTGTGTKTGTGTGT
AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: ACACACAYACACACACACA

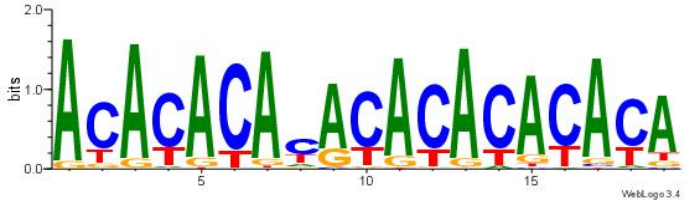

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

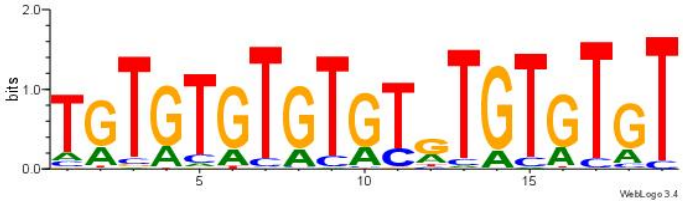

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.136619

Alignment:
ATGTGGAGGTGGAAGACAGT
GTTAACTGTAAAACAGCCT-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

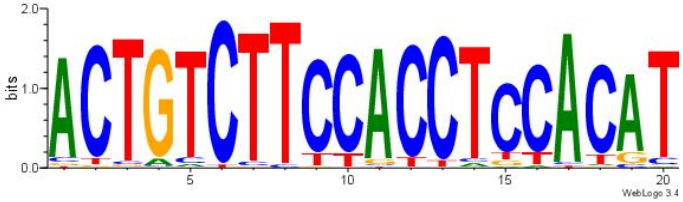

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

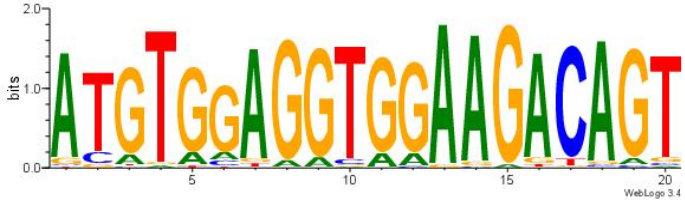

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.13752

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGGCTGTTTTACAGTTAAC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

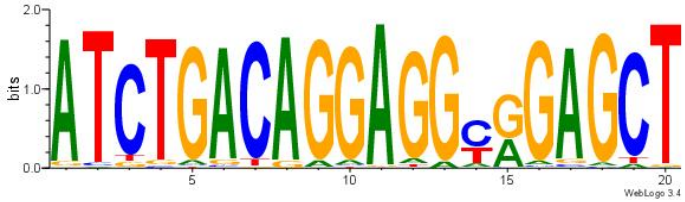

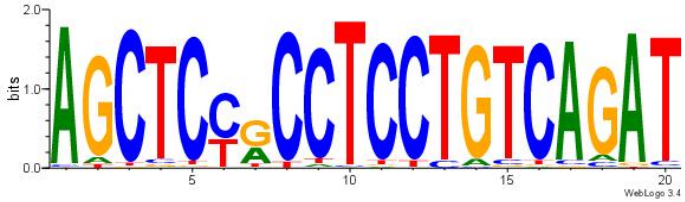

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137759

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

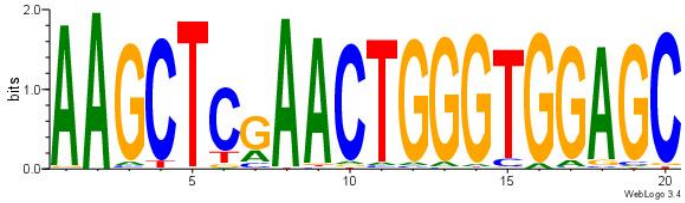

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

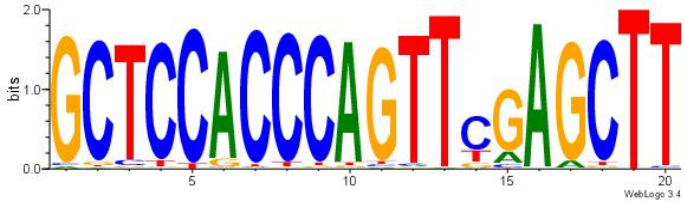

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138038

Alignment:

```
CTCCAGKTMCATCCATGTTG
-GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

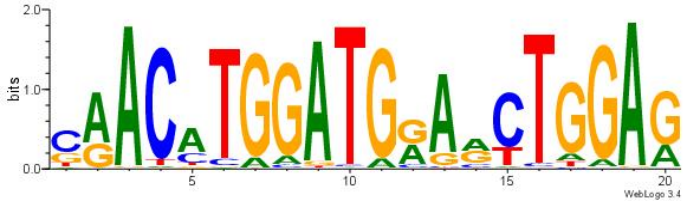

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

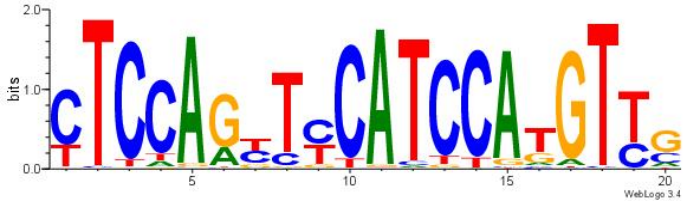

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.138049

Alignment:
AGTAGGTGCTCARTAAATRB
GTTAACTGTAAAACAGCCT-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

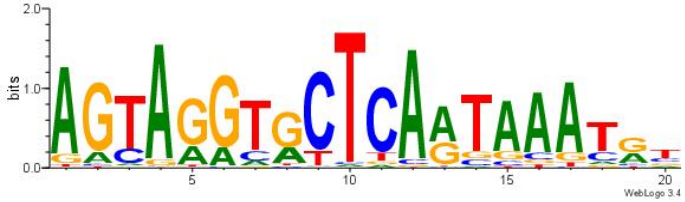

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

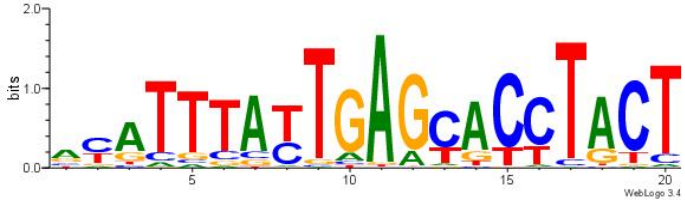

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.138232

Alignment:
GCCAATTTCTCCCATTTGGA
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

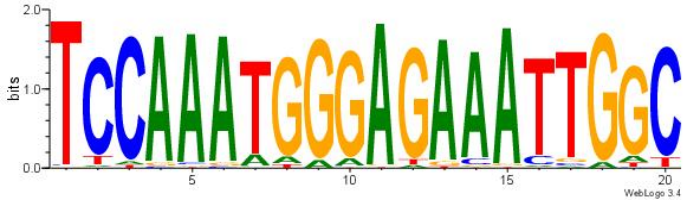

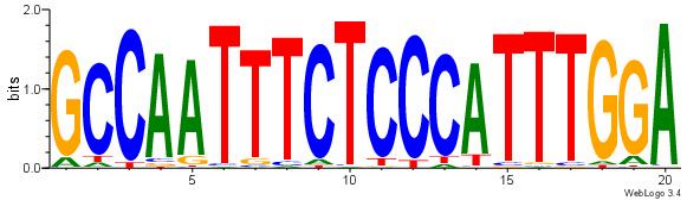

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138561

Alignment:

```
ATTGGTGTATTTACAATCCC
AGGCTGTTTTACAGTTAAC-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

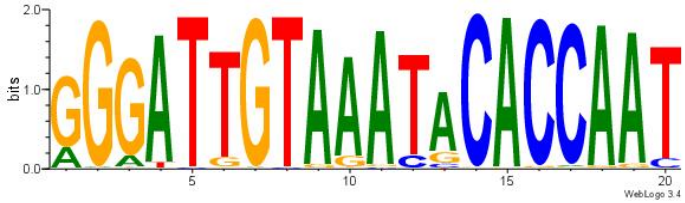

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138717

Alignment:

```
ATGGACAYTTRGGTTGHTTC
GTTAACTGTAAAACAGCCT-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

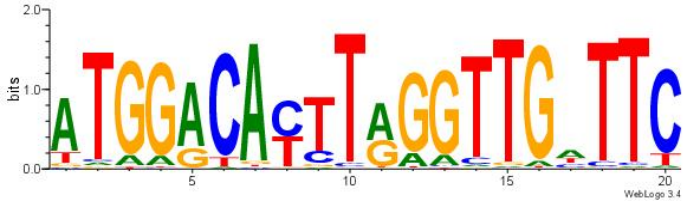

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

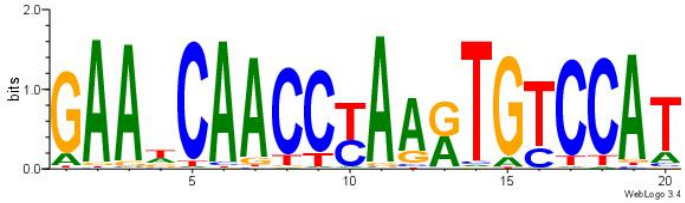

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.138908

Alignment:
GCTGGCCCGCAAGCGCCGCG
GTTAACTGTAAAACAGCCT-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

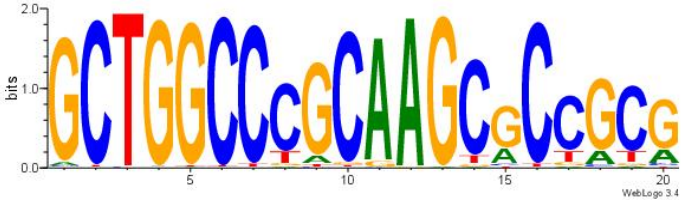

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

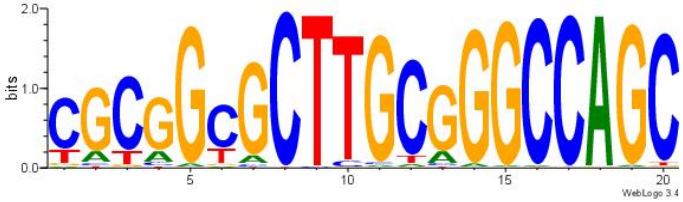

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139721

Alignment:
TTGTCCCACTGGAAGGTCTT
-GTTAACTGTAAAACAGCCT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

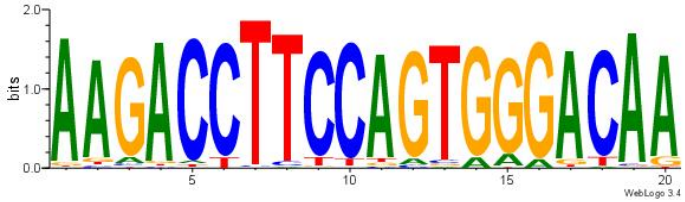

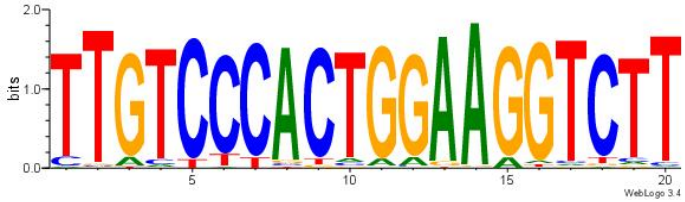

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139837

Alignment:
ACATCMTCTGAAATCTAGG
AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

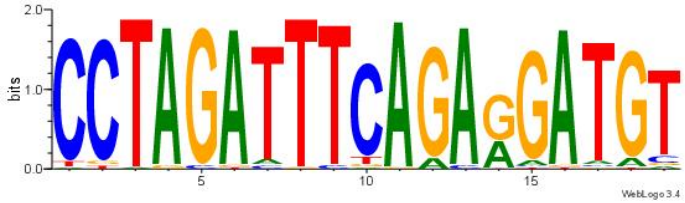

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

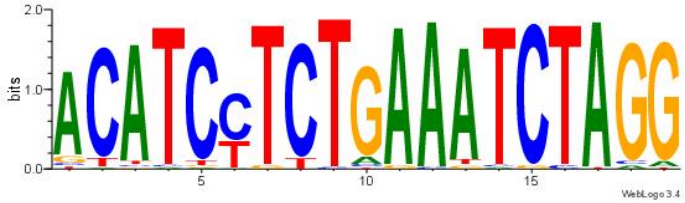

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140404

Alignment:

```
CCTGCCATTGCYSAGGCTTG
AGGCTGTTTTACAGTTAAC-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

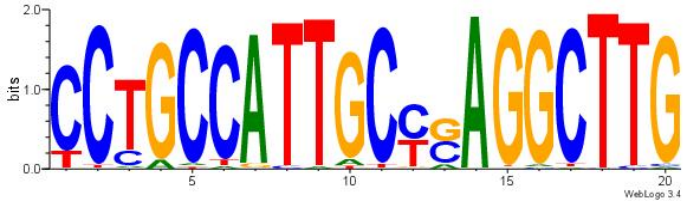

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

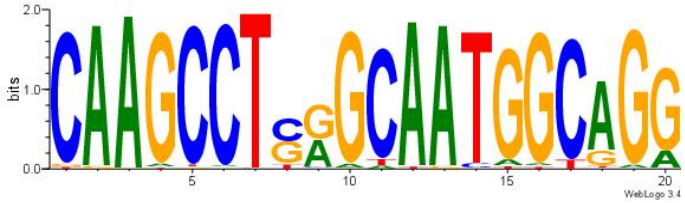

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.140841

Alignment:
CATTCTGGGGTCTGGAGGAY
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

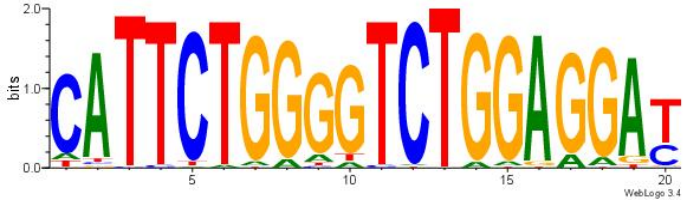

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

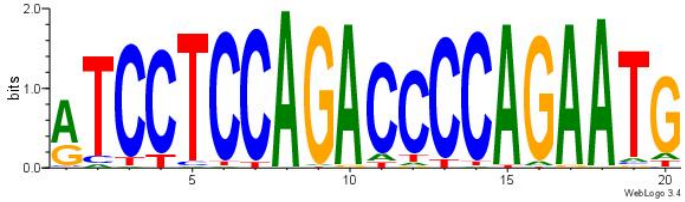

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.141142

Alignment:
GCCGTTTKTTAAGCCCGTY
GTTAACTGTAAAACAGCCT

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

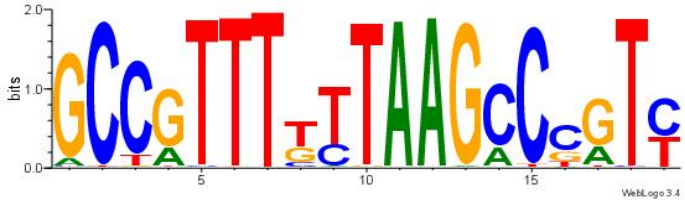

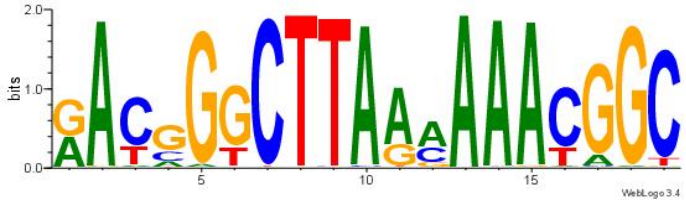

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.141231

Alignment:

```
ATTCAASATGAGATTTGGG
AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

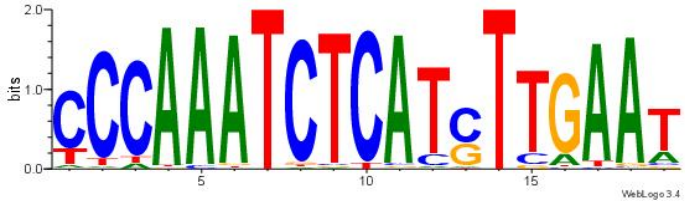

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

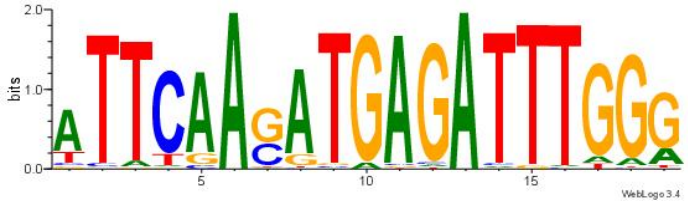

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.141883

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

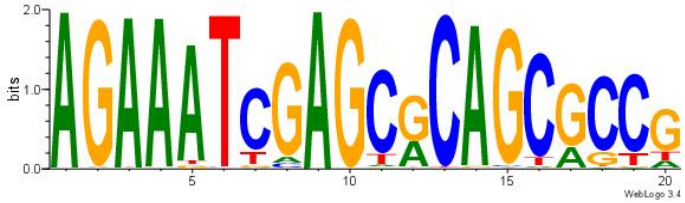

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

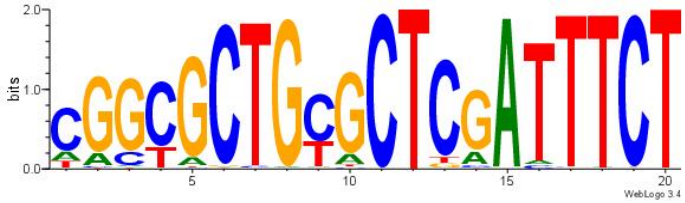

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.14231

Alignment:
GAGAGAGAGAGAGAGAGAGA
AGGCTGTTTTACAGTTAAC-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

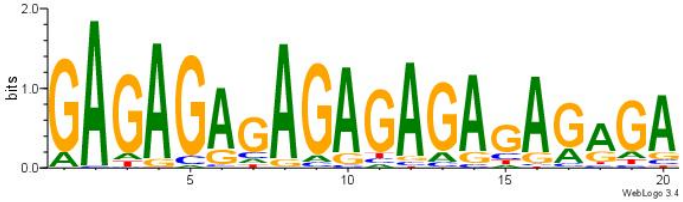

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

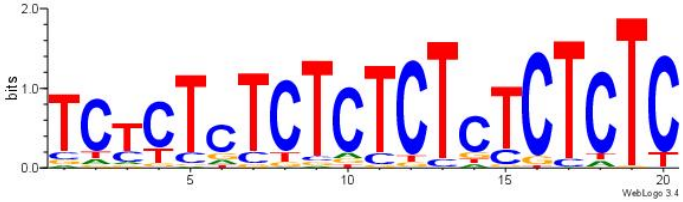

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.142495

Alignment:
TGCTGGAGGTCCACTCCAGA
AGGCTGTTTTACAGTTAAC-

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

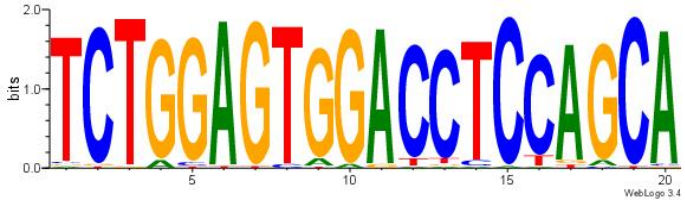

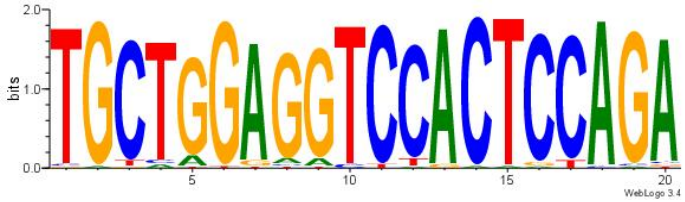

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.142506

Alignment:

```
AAATTAGGCCAATTAATAAC
-AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

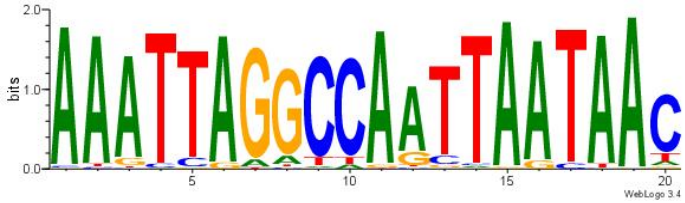

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.143347

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GTTAACTGTAAAACAGCCT-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

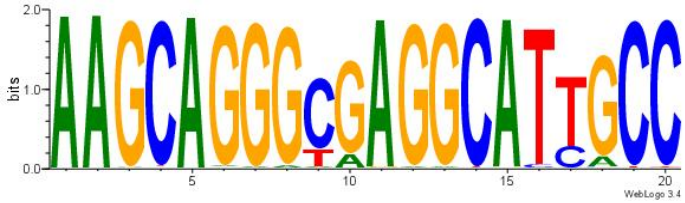

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

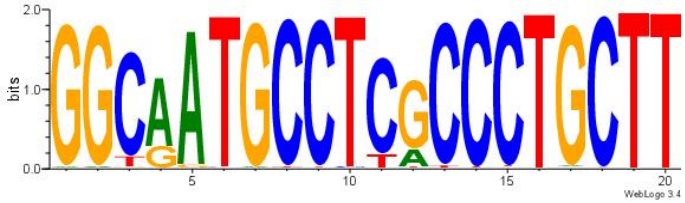

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.14413

Alignment:
TTGGTAGGATCCGTGATGCC
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

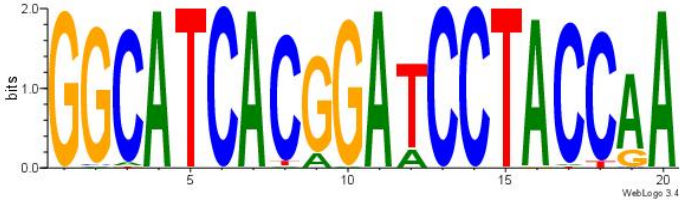

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

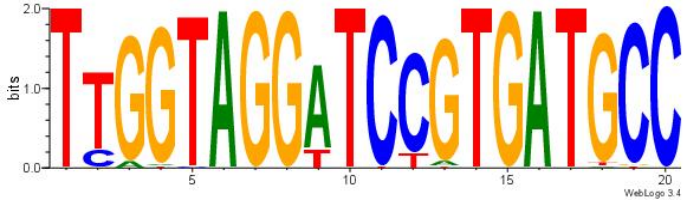

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.14419

Alignment:
AAGCTGAGGGAGCCGGCTCC
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

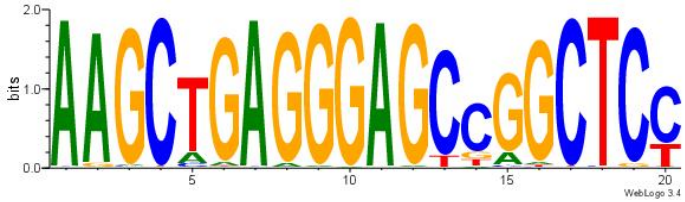

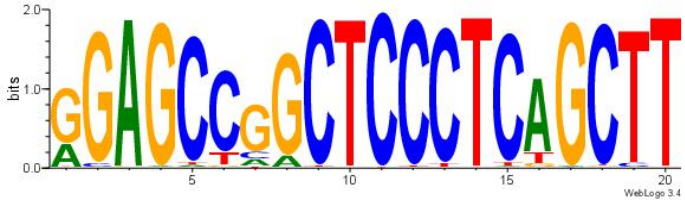

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144542

Alignment:

```
AGCTCCCAGCGTGAGCGACG
-GTTAACTGTAAAACAGCCT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

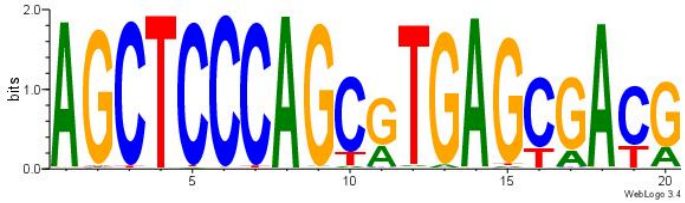

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

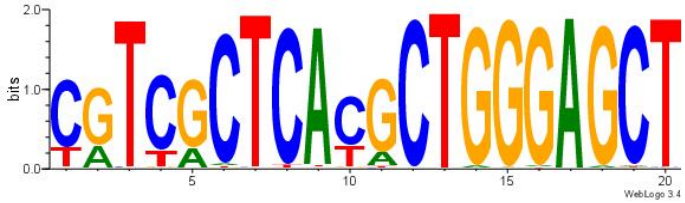

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144863

Alignment:

```
ATTGATMKCCAGGGTTGATT
AGGCTGTTTTACAGTTAAC-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

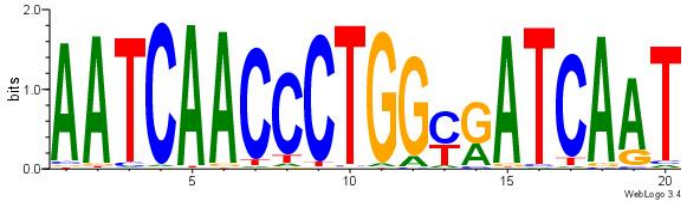

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

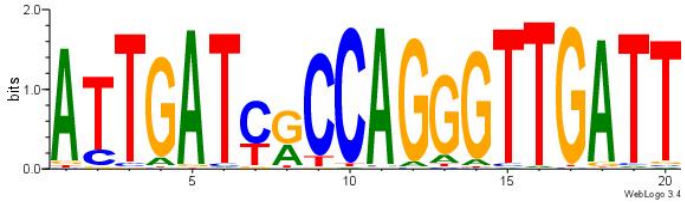

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.145569

Alignment:
CTCATTTAATCCTCACAAC
AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

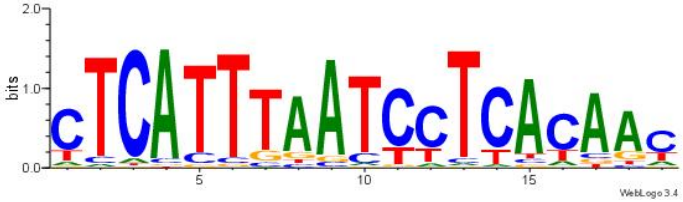

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

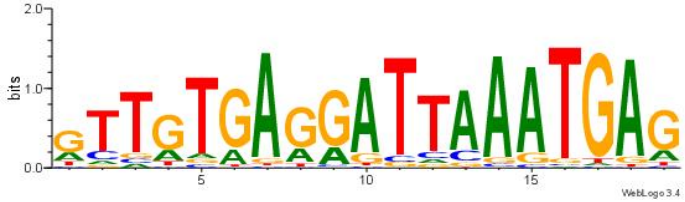

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.145931

Alignment:
CCGCTGCACTGTGGGAGCCC
-AGGCTGTTTTACAGTTAAC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

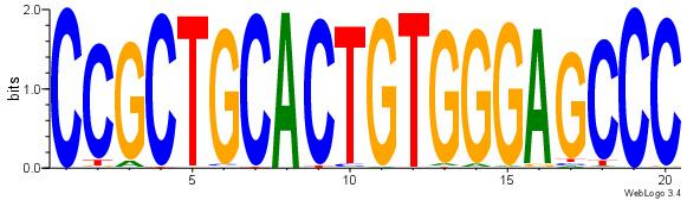

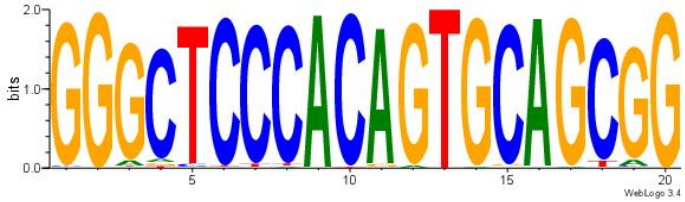

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145991

Alignment:

```
ACAGGCTGTCCCAGGATTC
AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

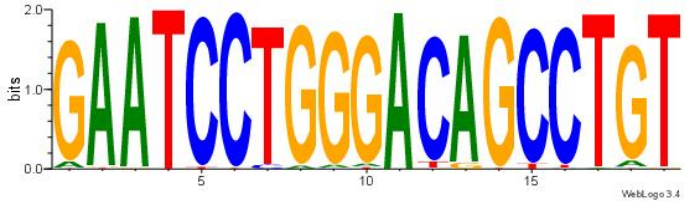

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

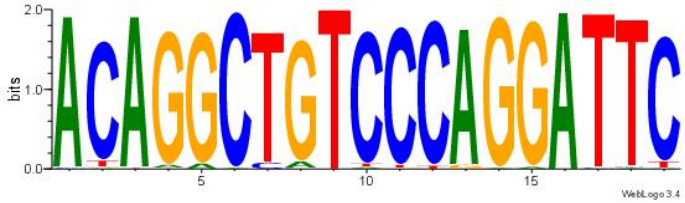

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.146696

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-AGGCTGTTTTACAGTTAAC
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

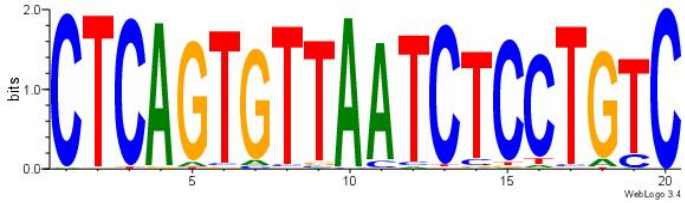

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

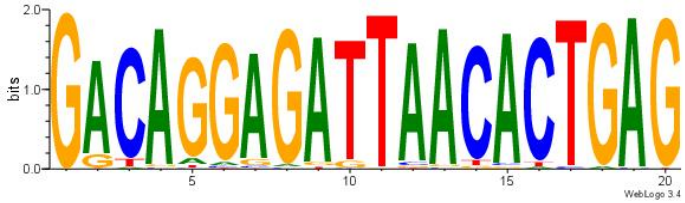

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.147081

Alignment:
TCKMGCCACTGCACTCCAGC
AGGCTGTTTTACAGTTAAC-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

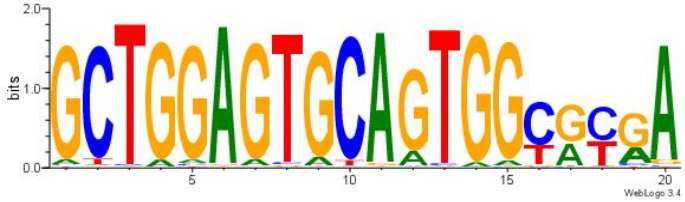

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

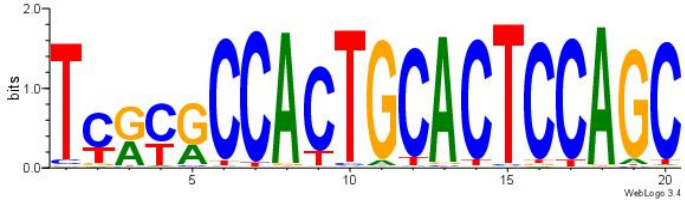

Dataset #: 1 Motif ID: 234 Motif name: Motif 234

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

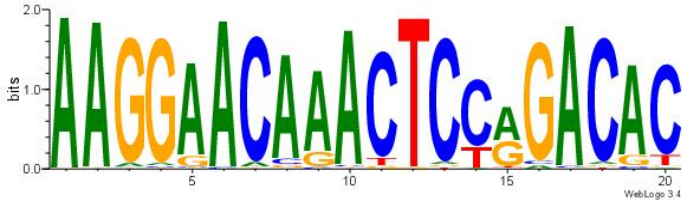

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

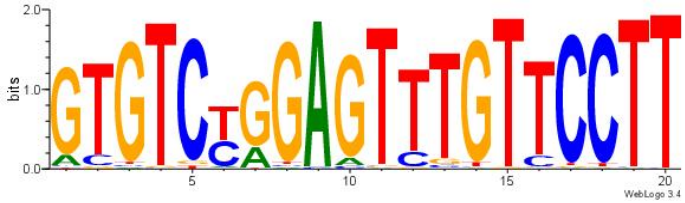

Best Matches for Motif ID 234 (Highest to Lowest)

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0933537

Alignment:

```
ATGGCTGAATAKTATTCCAT
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

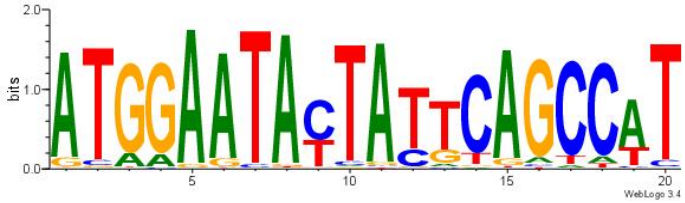

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

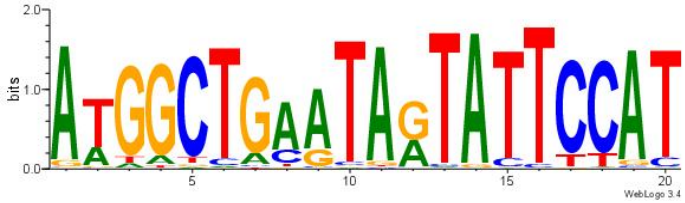

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117565

Alignment:

TAGATAATAGCTCCAGCTTT
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

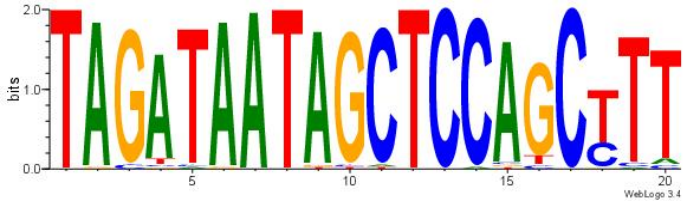

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

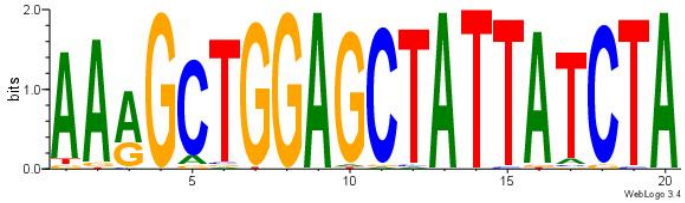

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120219

Alignment:
CAGGTGGTKTTTGGTTACAT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

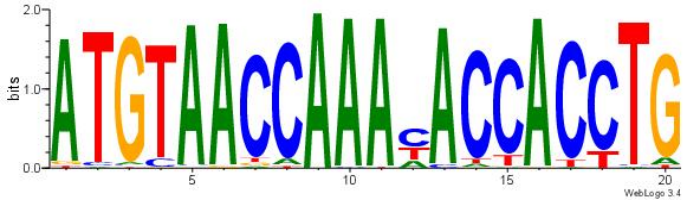

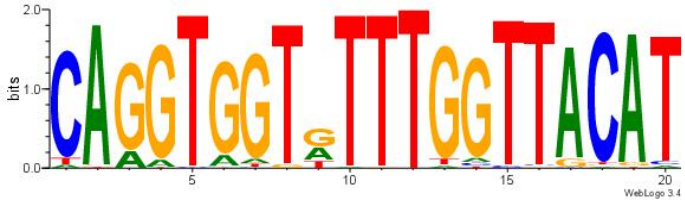

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120596

Alignment:

```
MTCCTCCAGACCCCAGAATG
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

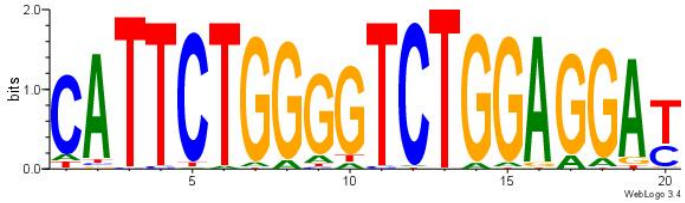

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

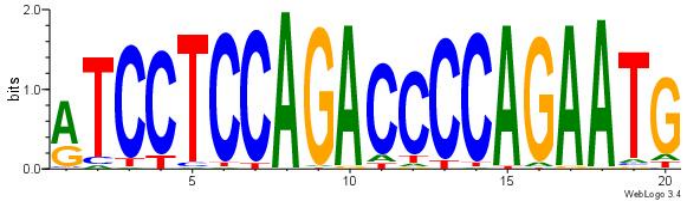

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126322

Alignment:

GGGTCAGGGAGTTCCCTTTC

GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

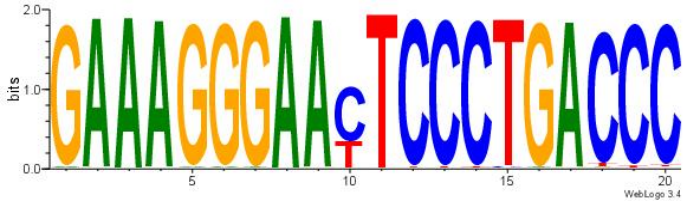

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

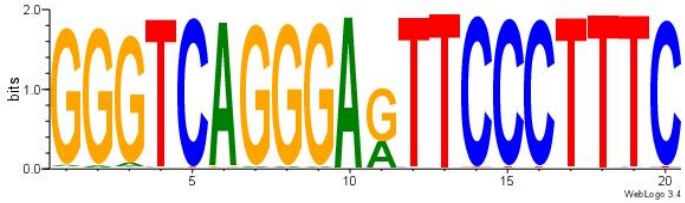

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.128888

Alignment:
GAAACTGCTTTGTGATGTGT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

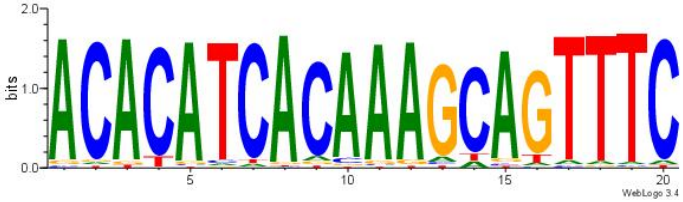

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

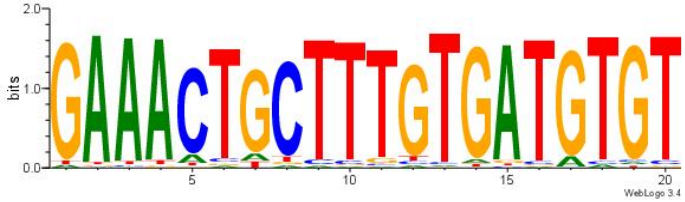

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131993

Alignment:
KKCACCTTGATCTTGGACTT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

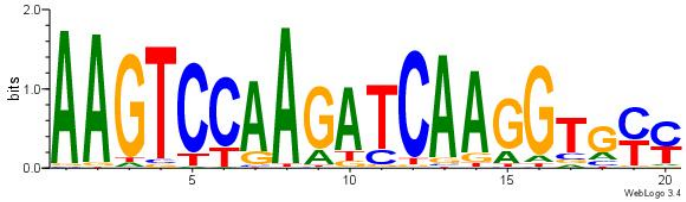

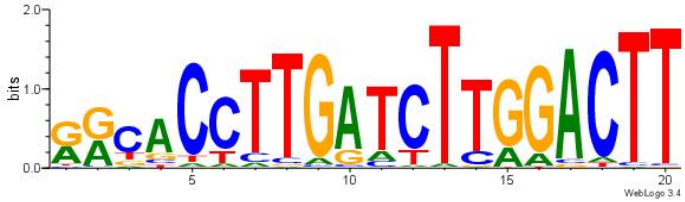

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133028

Alignment:
GTTTAACCATTGAGGGCCAG
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

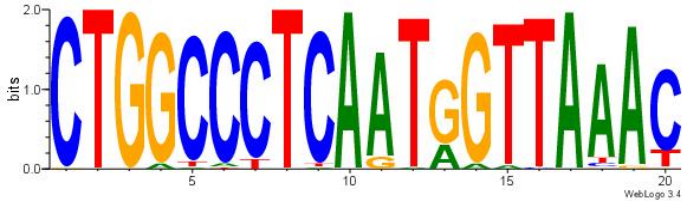

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

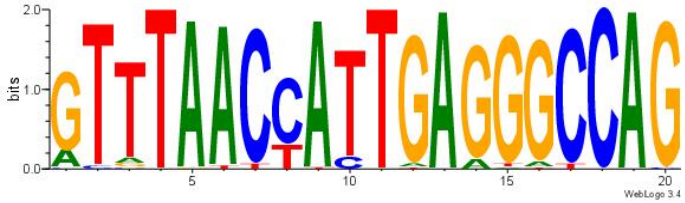

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134615

Alignment:

```
ATCTGACAGGAGGYRGAGCT
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

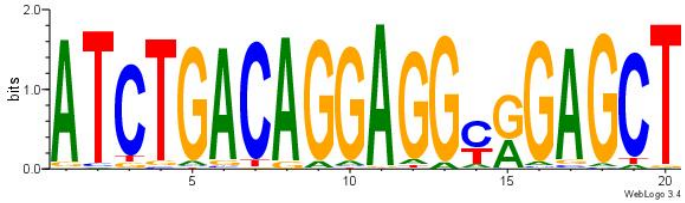

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

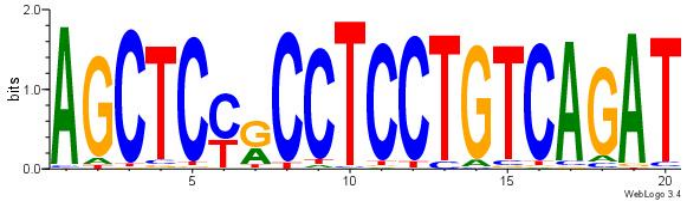

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.135164

Alignment:
ARCTCCTGKSCTCAAGKGAT
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

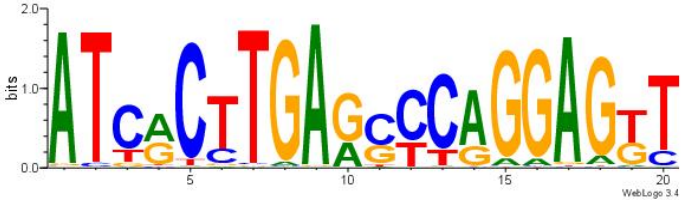

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

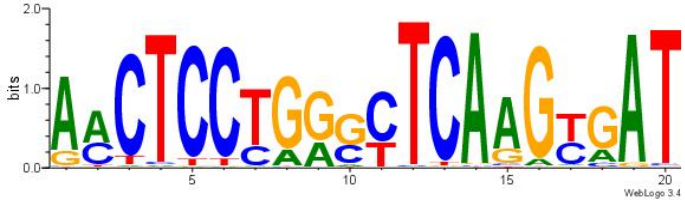

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136046

Alignment:
TACCTGAGACTGGGTAATTT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

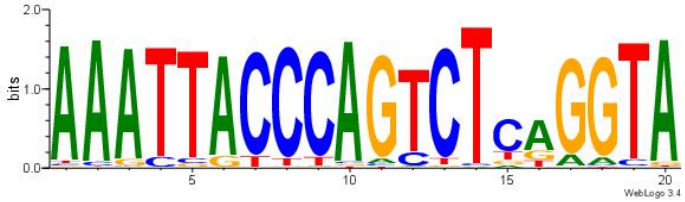

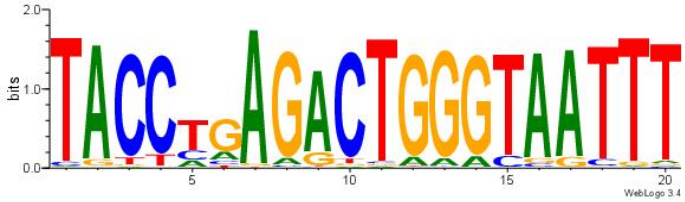

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136451

Alignment:

```
GTGCCAGGCACTGTKCTARG
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

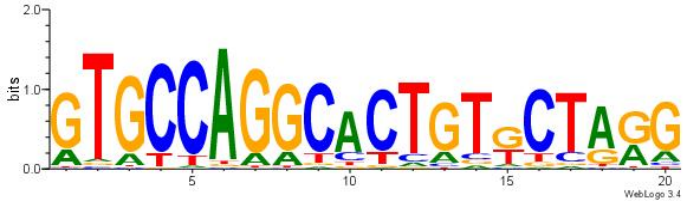

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

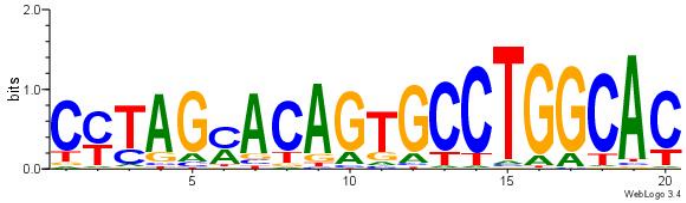

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138495

Alignment:
AAAATGTGGTAYATAYAYAC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

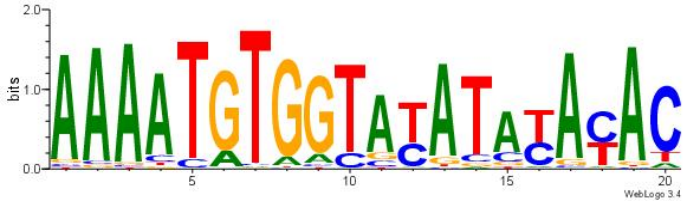

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

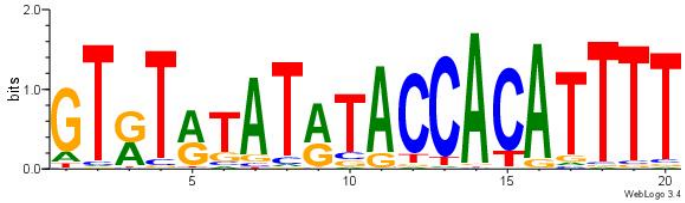

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138803

Alignment:
GCCKGGMKCMGTGGCTCAKG
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

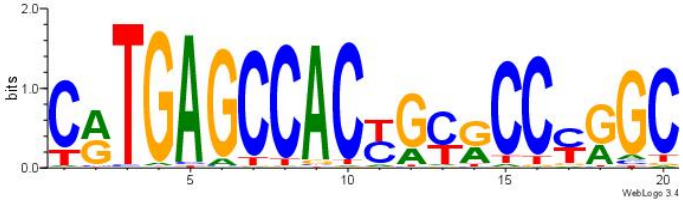

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

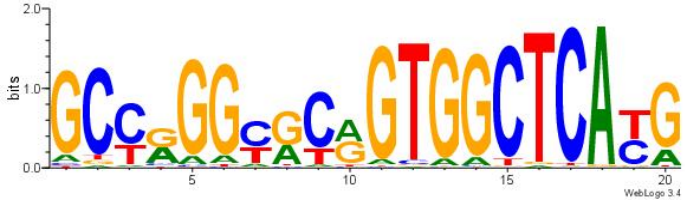

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.139228

Alignment:
AATGAKATCATGTCYTTTGC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

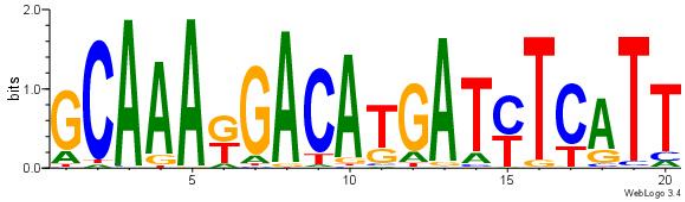

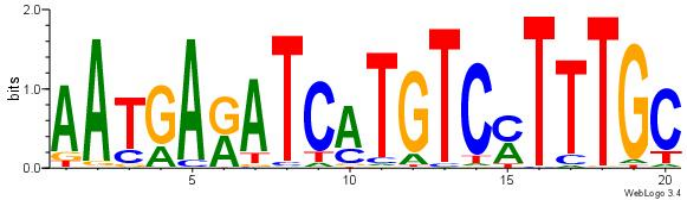

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139261

Alignment:

```
ACCTGGAAAATCGGGTCACT
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

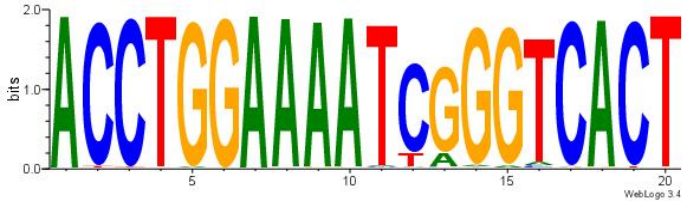

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

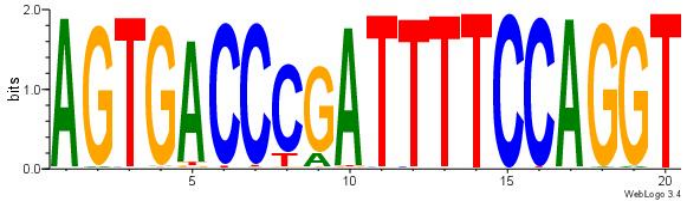

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139815

Alignment:

```
ATTGATMKCCAGGGTTGATT
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

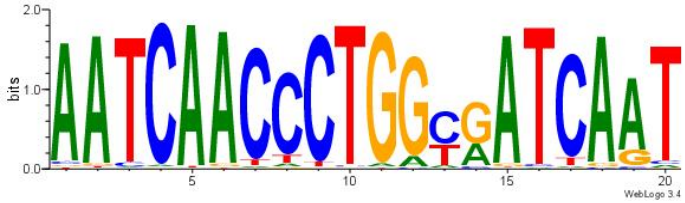

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

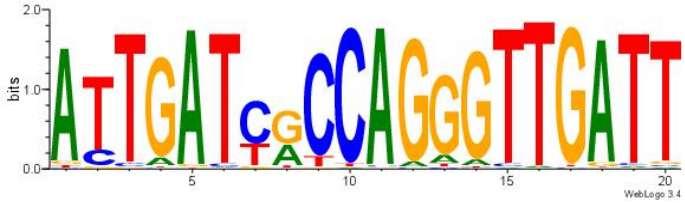

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140542

Alignment:
TTGTCCCACTGGAAGGTCTT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

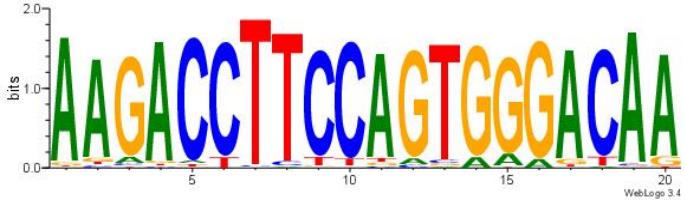

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

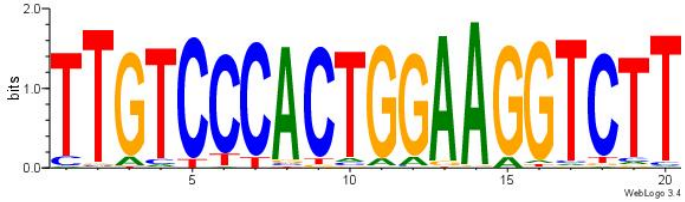

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.141159

Alignment:
AAGCTGAGGGAGCCGGCTCC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

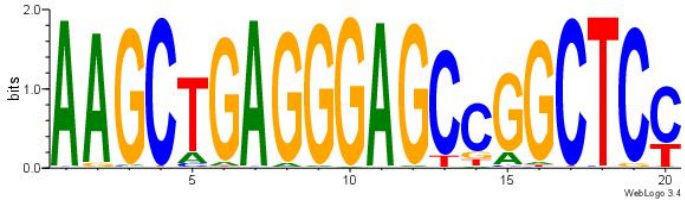

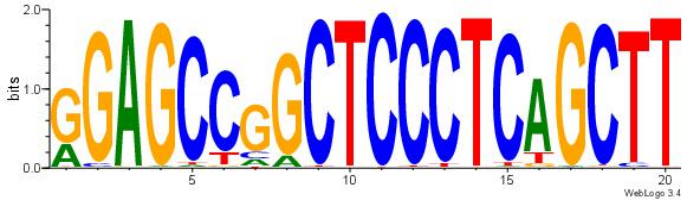

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141226

Alignment:
HAGTGGKATTGCTGGATCAT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

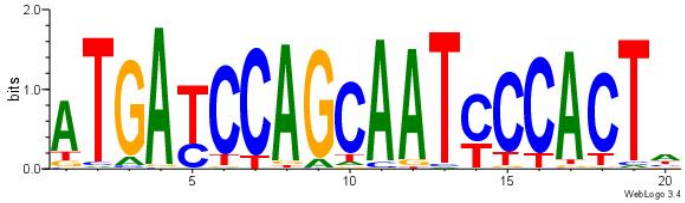

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

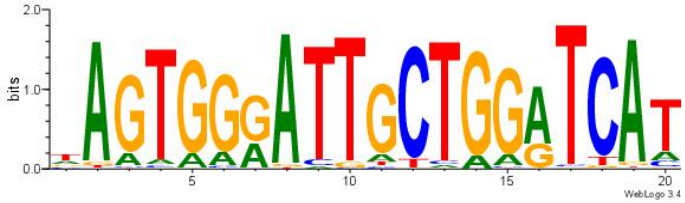

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142424

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

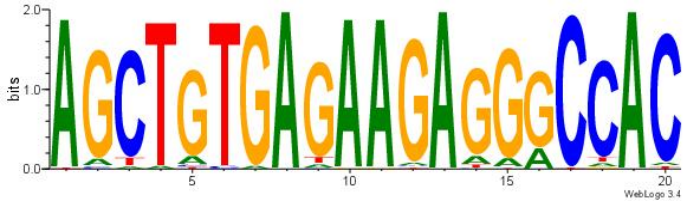

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

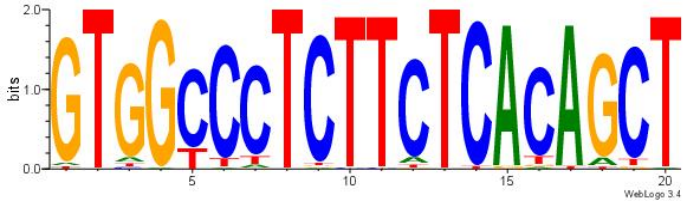

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.142746

Alignment:
GAAHCAACCKAAKTGTCCAT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

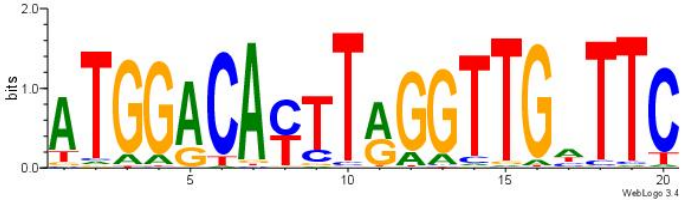

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

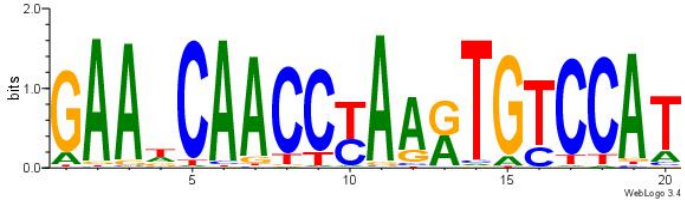

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14306

Alignment:
CGGCGCTGMGCTCGATTTCT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

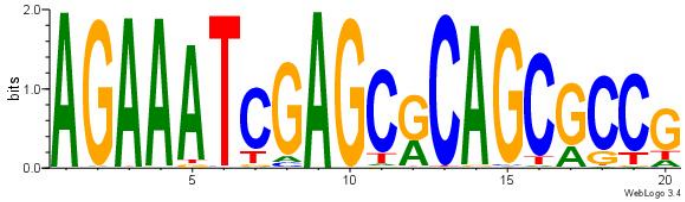

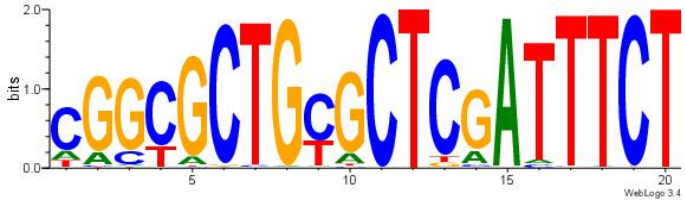

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143091

Alignment:

```
GGCACTGCTGGGGGACCCAG
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

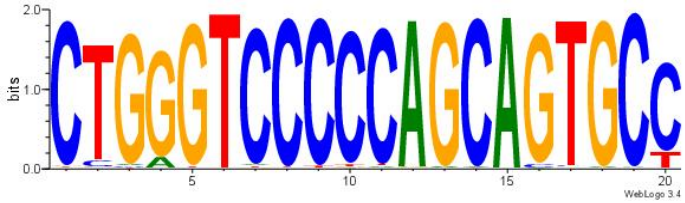

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

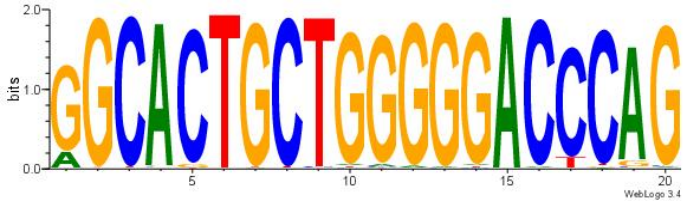

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14329

Alignment:
ATTGGTGTATTTACAATCCC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

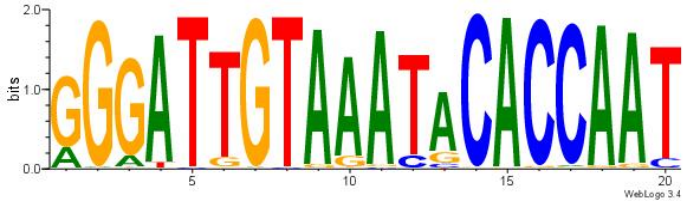

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.143342

Alignment:
TAATTTTATGTGTCAACTTG
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

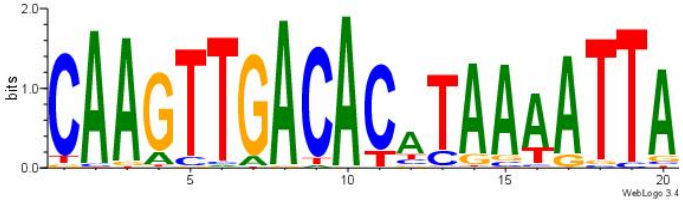

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

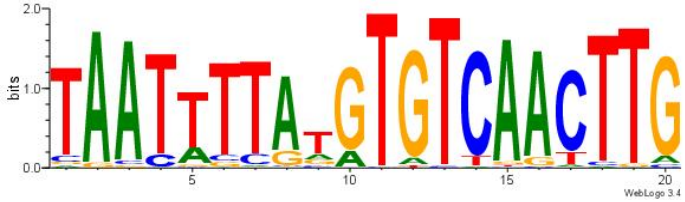

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144413

Alignment:
AAGTTCTKGGKTACATGTGC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

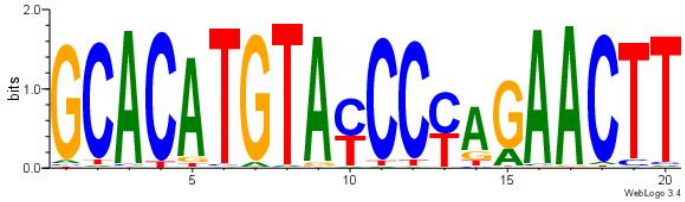

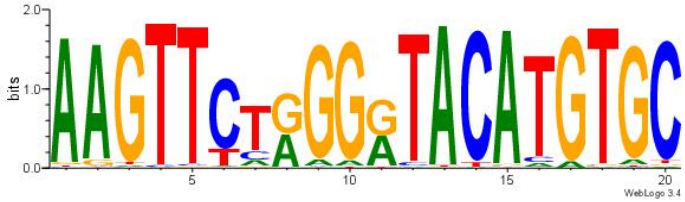

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144602

Alignment:

```
CTTGCCCAAGGTCACACAGC
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

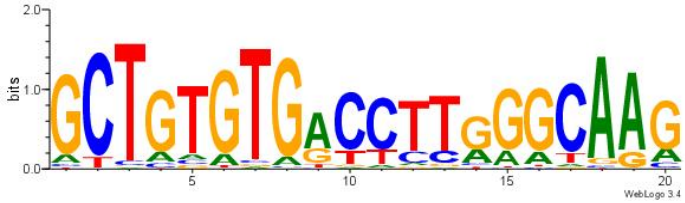

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

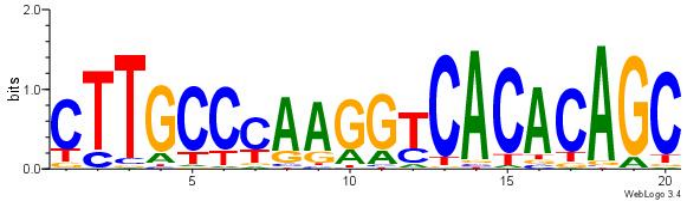

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145139

Alignment:

```
GCTCCACCCAGTTCGAGCTT
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

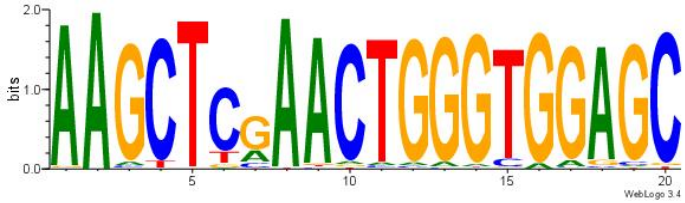

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

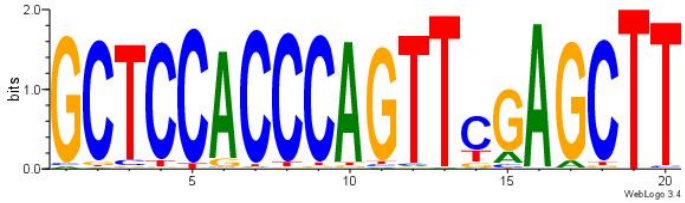

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.146023

Alignment:
GGATCCACTGGGTGAAGCCA
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

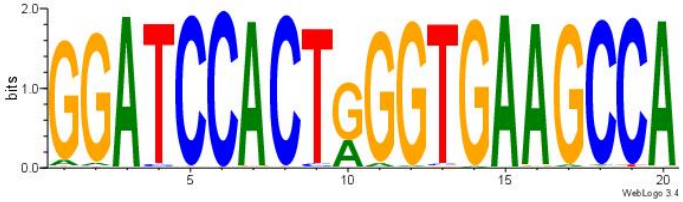

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

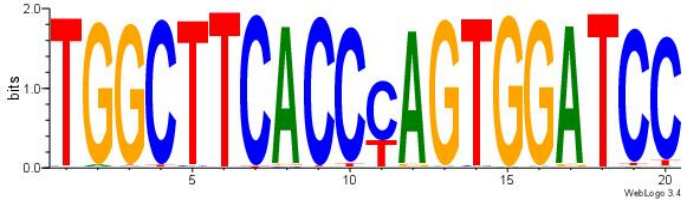

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146534

Alignment:
CACCAGGAGATTATATCCCR
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

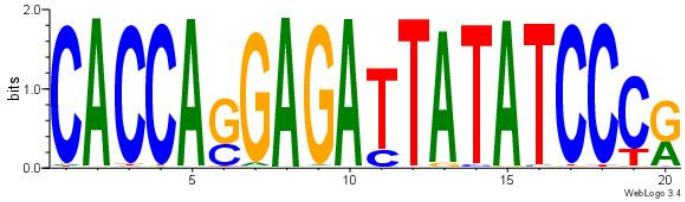

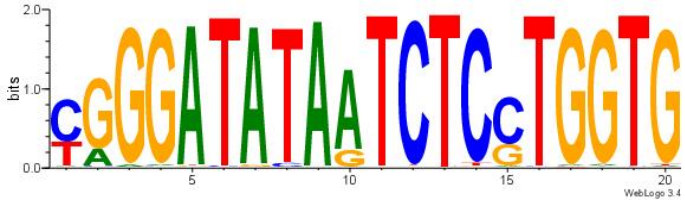

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14697

Alignment:
ATGTGGAGGTGGAAGACAGT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

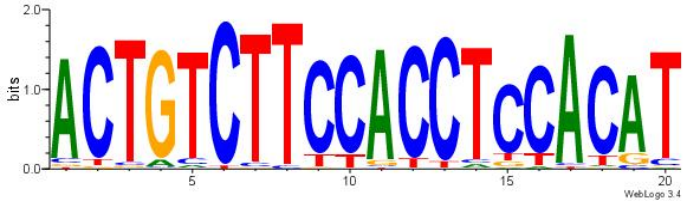

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

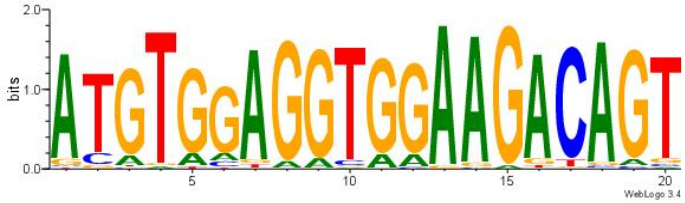

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147463

Alignment:

```
AGTGAGAACATRYRRTRTTT
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

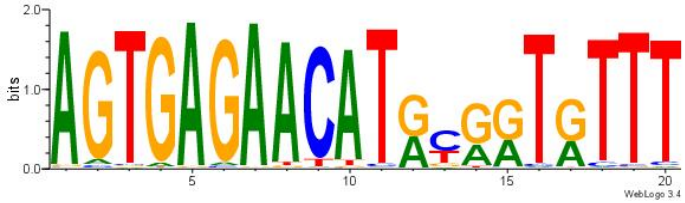

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

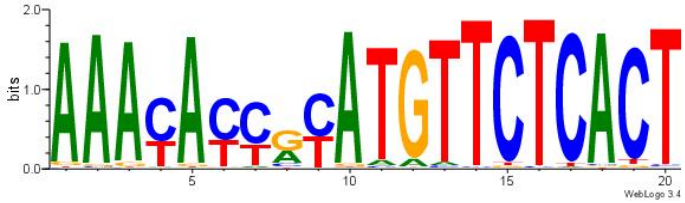

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148855

Alignment:
TTCAMTCATGATTTGGCTCT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

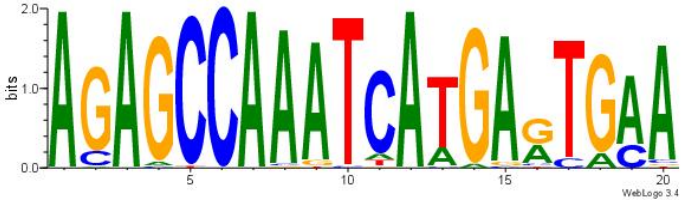

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

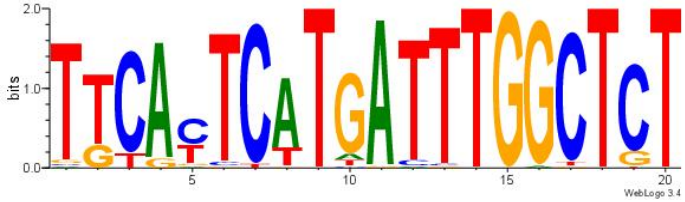

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.14887

Alignment:
GAGAGAGAGAGAGAGAGAGA
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

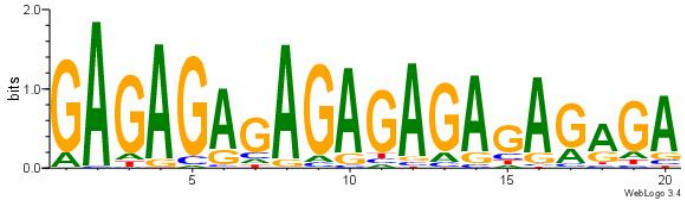

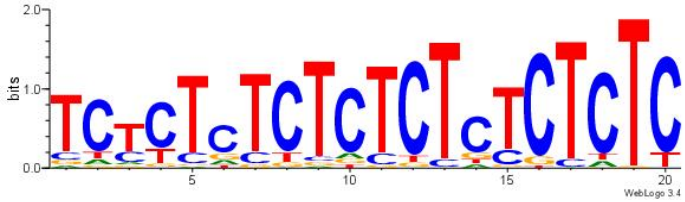

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150628

Alignment:
GTAACACTCACCGCGARGGT
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

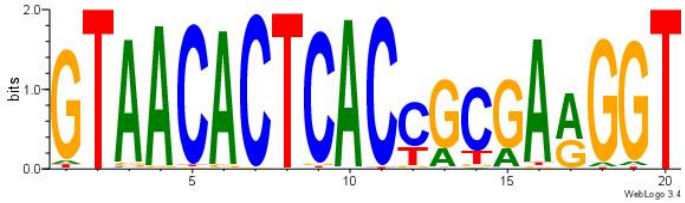

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

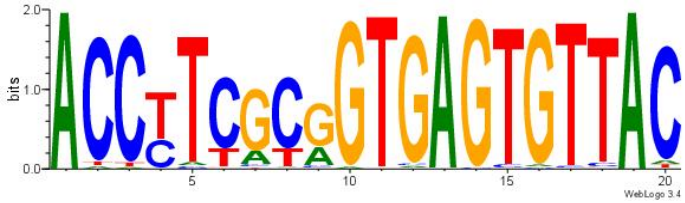

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15114

Alignment:

```
CTGACTGGGAGACACCTCCC
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

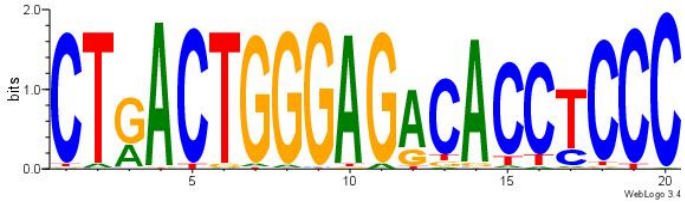

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

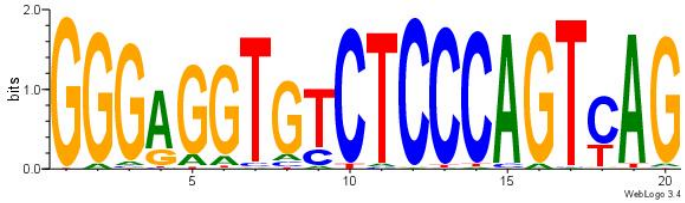

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151294

Alignment:
GGCAATGCCTCGCCCTGCTT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

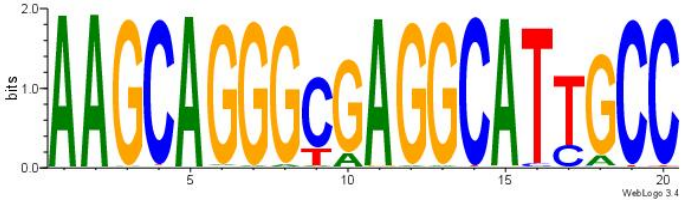

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

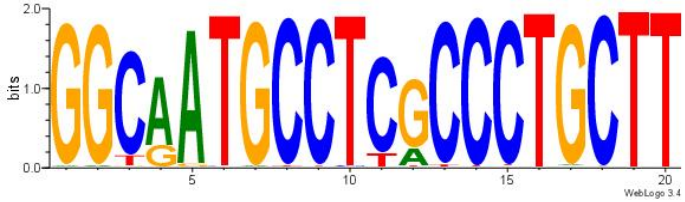

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.151807

Alignment:
AGGTCCTTCAGGAGGTATTC
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

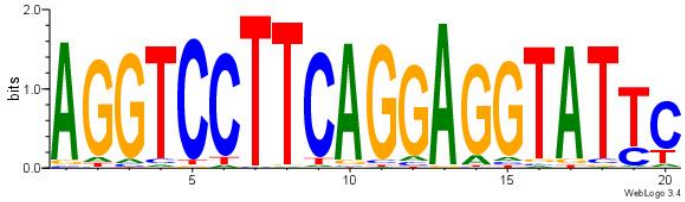

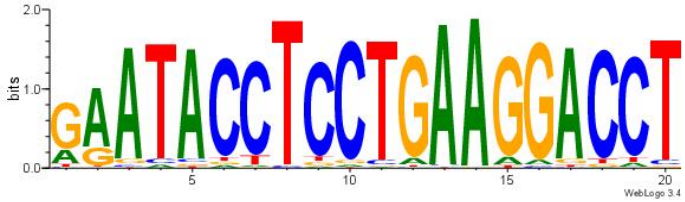

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15225

Alignment:

```
CTGGGCRACAGAGYRAGACY
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

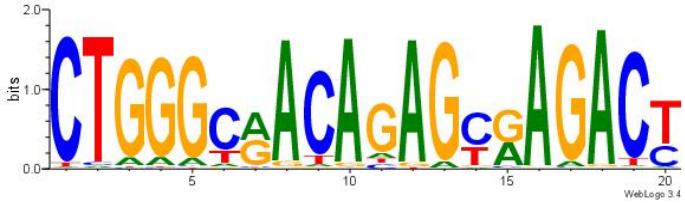

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

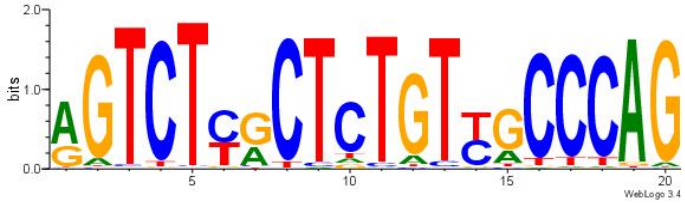

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153597

Alignment:

AGGCCCCAGTGTSTGTTGTT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

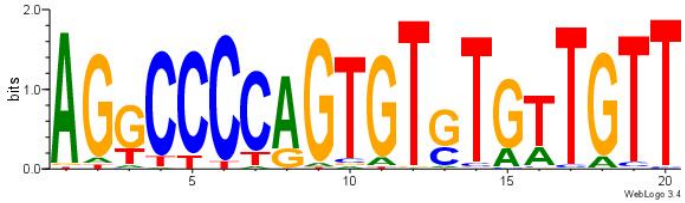

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

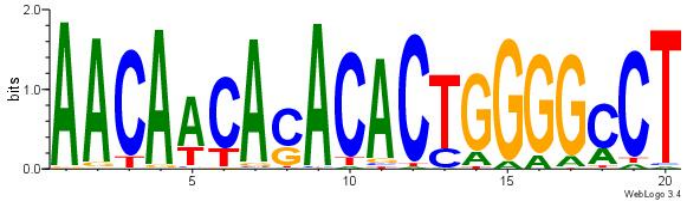

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154676

Alignment:
CCACCACAGCTCAAGGAGGC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

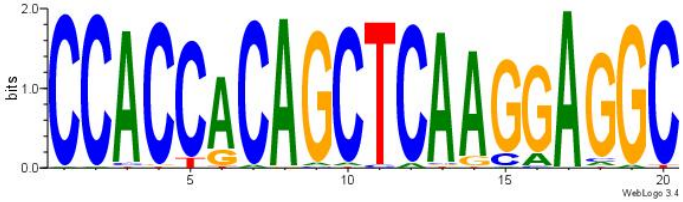

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

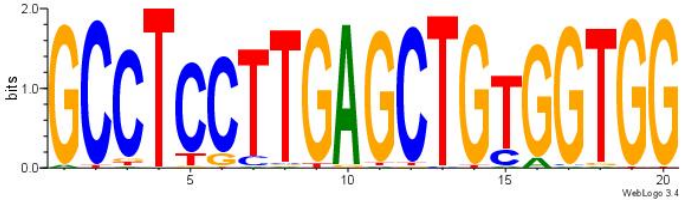

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156328

Alignment:
AGTAGGTGCTCARTAAATRB
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

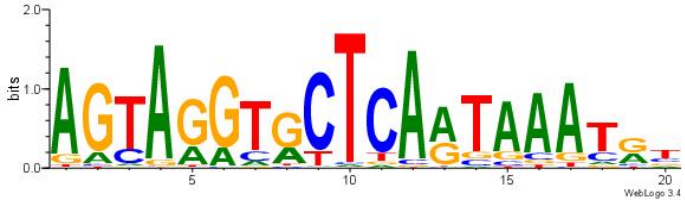

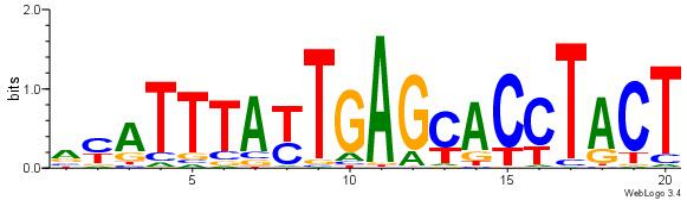

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15649

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
GTGTCKGGAGTTTGTTCCTT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

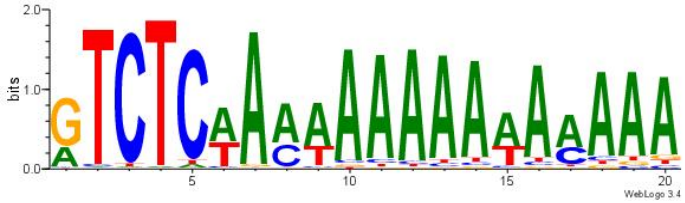

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

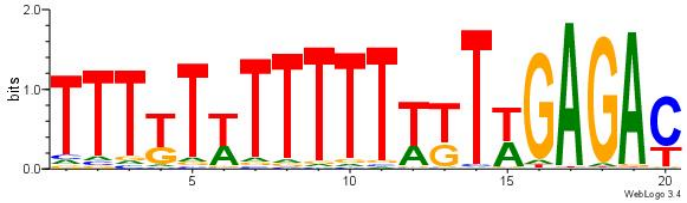

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156574

Alignment:

```
CCCATGCAAGTCYRAAATCC
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

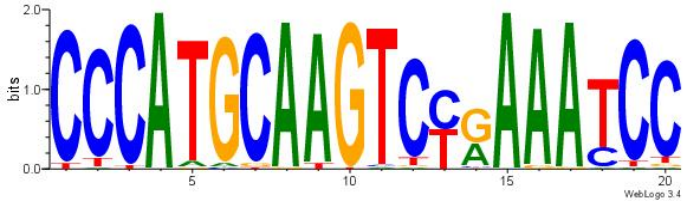

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

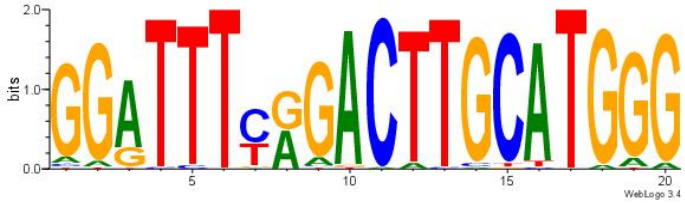

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156603

Alignment:
AAAAGTCCACAGTCCAAAGT
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

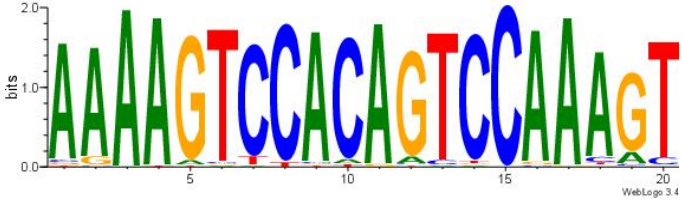

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

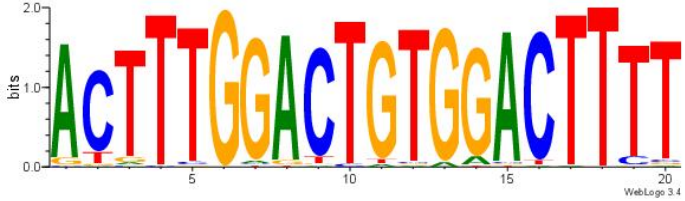

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157062

Alignment:
CCGCTGCACTGTGGGAGCCC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

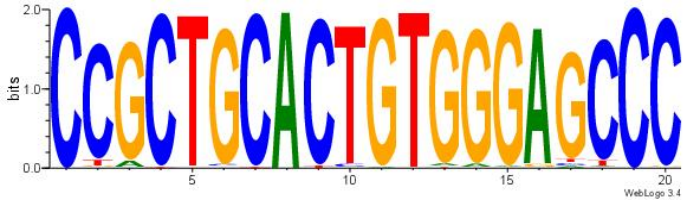

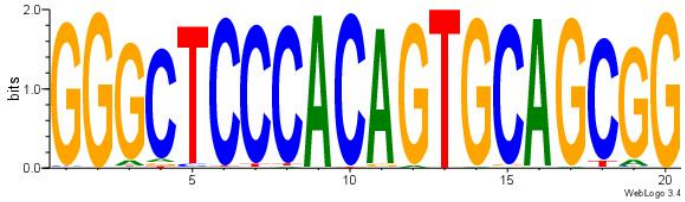

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157714

Alignment:

```
TTGGTAGGATCCGTGATGCC
AAGGAACAAACTCCRGACAC
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

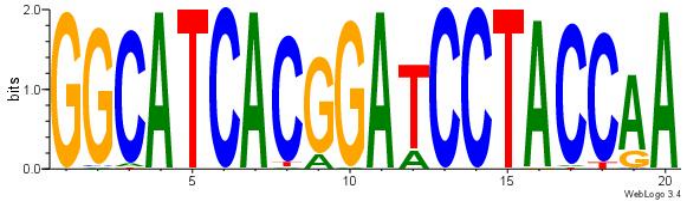

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

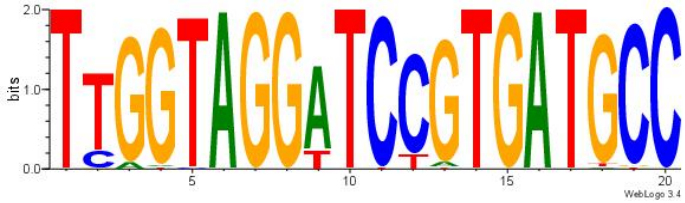

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15832

Alignment:
AAATTAGGCCAATTAATAAC
AAGGAACAAACTCCRGACAC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

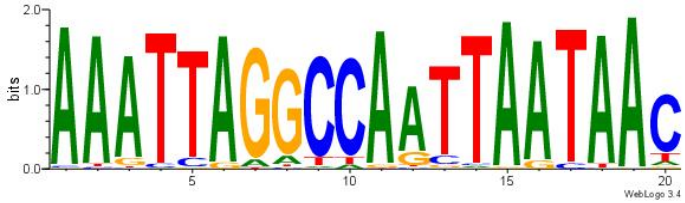

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158953

Alignment:
TWTACCTATGTAACAAACCT
GTGTCKGGAGTTTGTTCCTT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

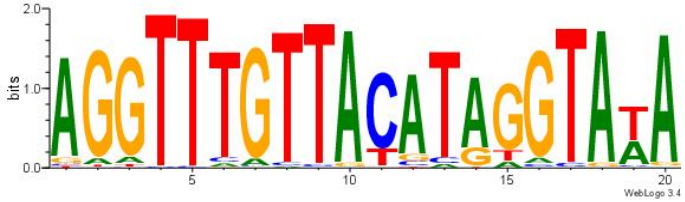

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

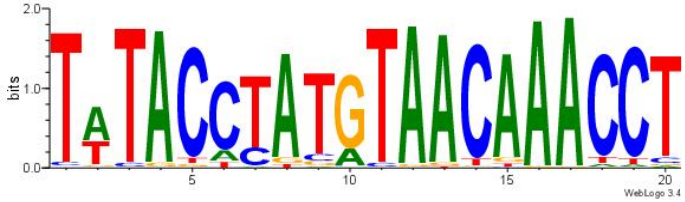

Dataset #: 1 Motif ID: 235 Motif name: Motif 235

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

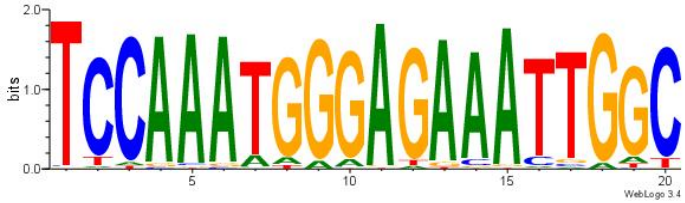

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

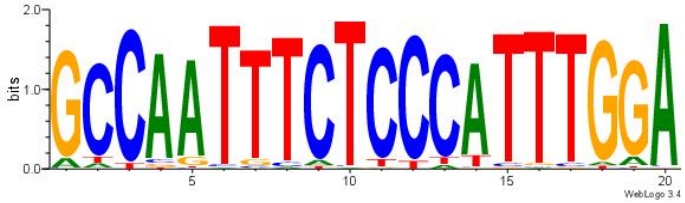

Best Matches for Motif ID 235 (Highest to Lowest)

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119043

Alignment:

```
AAGCAGGGCGAGGCATTGCC
TCCAAATGGGAGAAATTGGC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

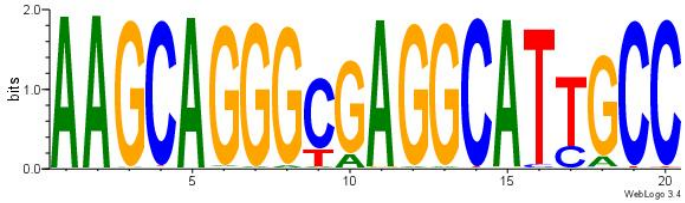

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

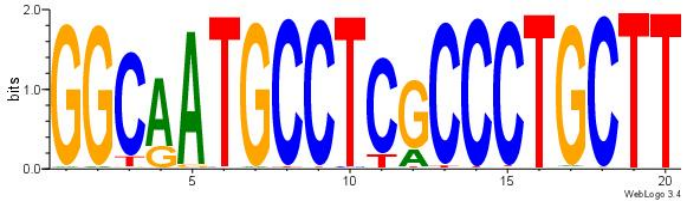

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121347

Alignment:

TCCCTCCCGGACGGGGYGGC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

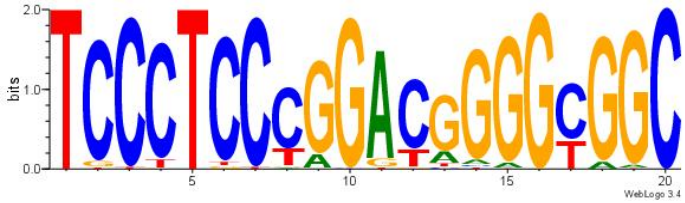

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

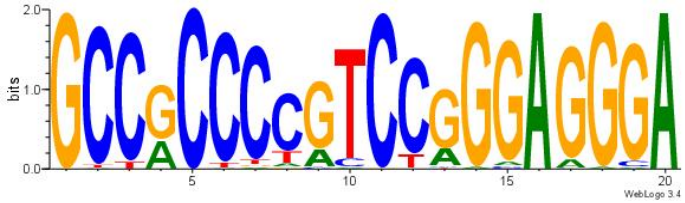

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123305

Alignment:
CCCGAAGCTGCRYRCTCGGT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

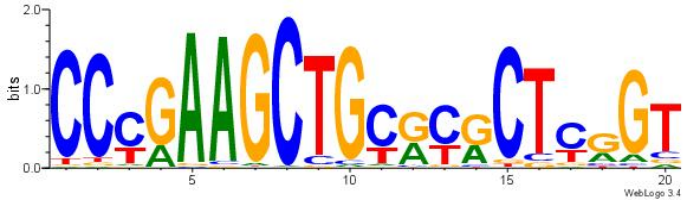

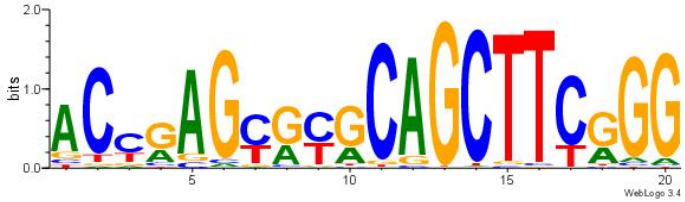

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126931

Alignment:
GTKTMTATMTACCACATTTT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

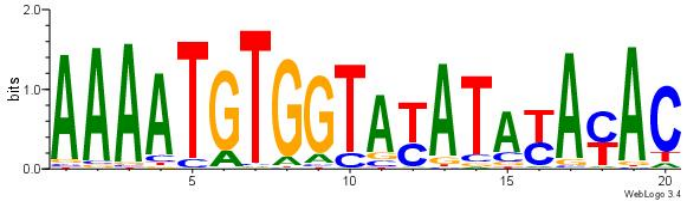

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

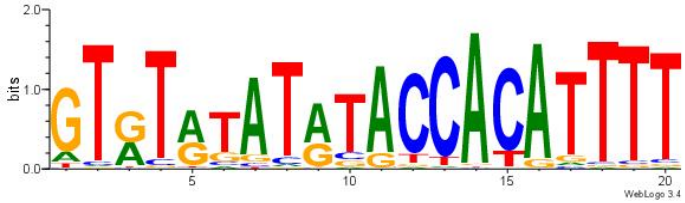

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127095

Alignment:

```
AAGTTCTKGGKTACATGTGC
TCCAAATGGGAGAAATTGGC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

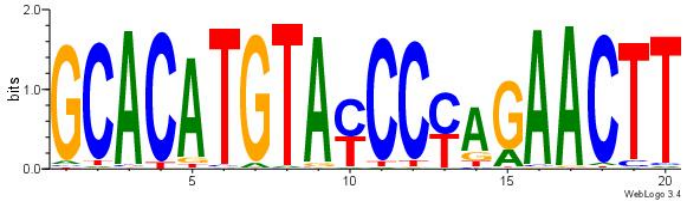

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

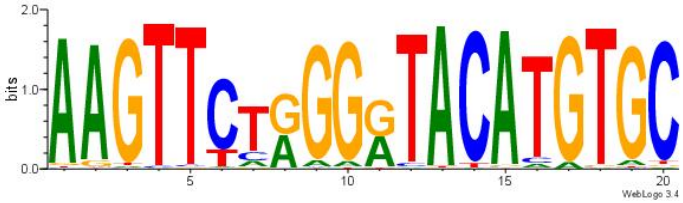

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134896

Alignment:
ACCCAATWTGTAGTCTTTTA
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

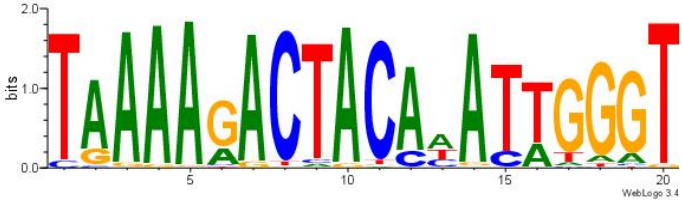

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

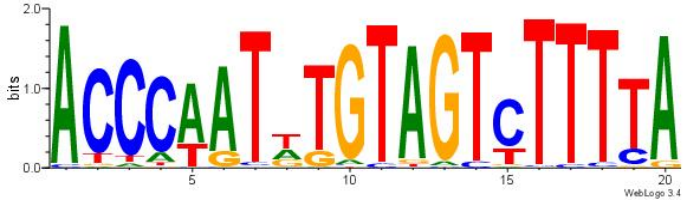

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136266

Alignment:
ATCTGACAGGAGGYRGAGCT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

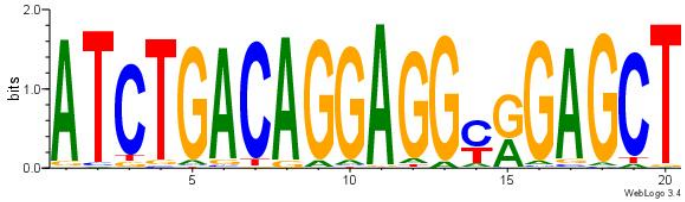

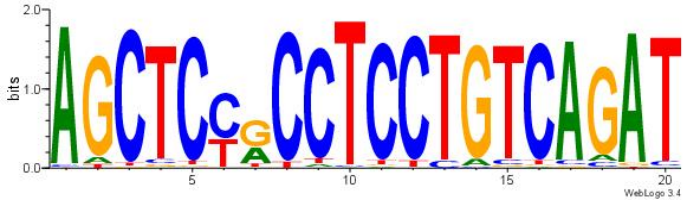

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137086

Alignment:
GGAGGTGTGGAGGGAGAGGC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

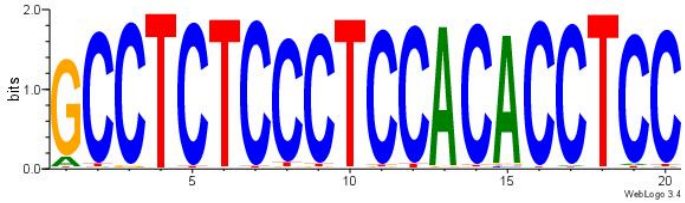

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

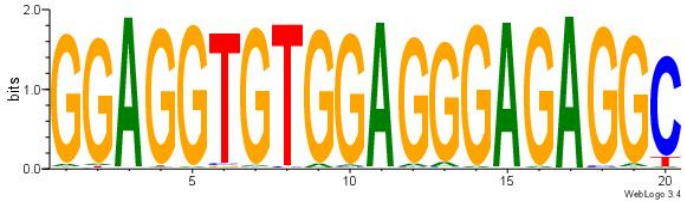

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137868

Alignment:
GTAACACTCACCGCGARGGT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

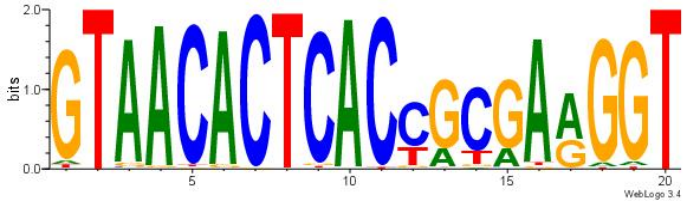

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

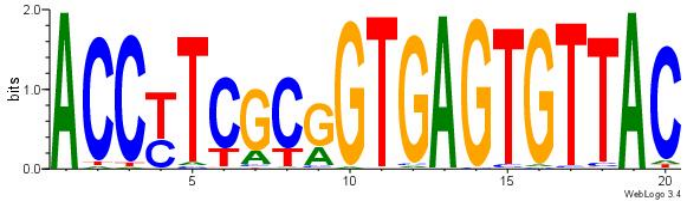

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139479

Alignment:
GCCTCCTTGAGCTGTGGTGG
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

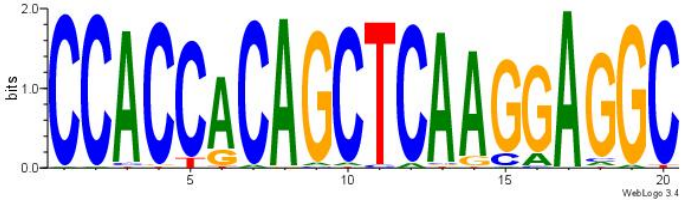

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

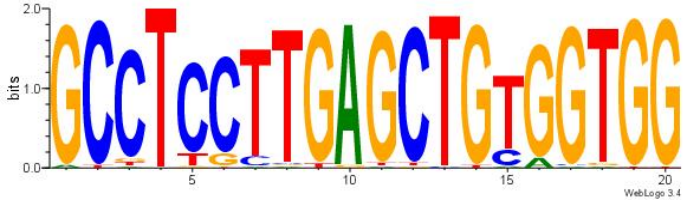

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.139916

Alignment:
ATCRCTTGAGSYCAGGAGKT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

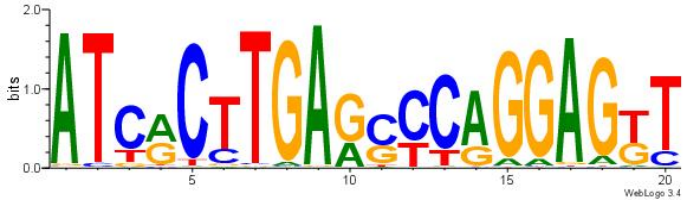

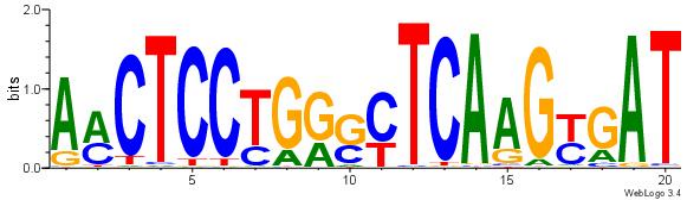

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141548

Alignment:

GCCAGTCACAAAARGACAMA

GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

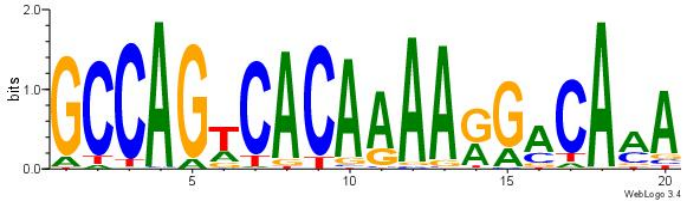

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

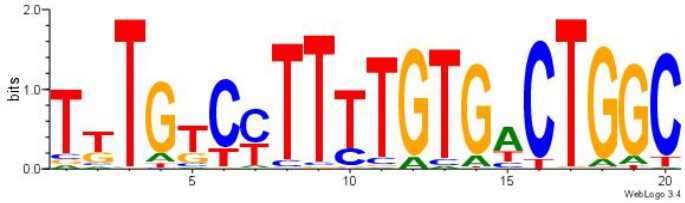

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141695

Alignment:

AATGAKATCATGTCYTTTGC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

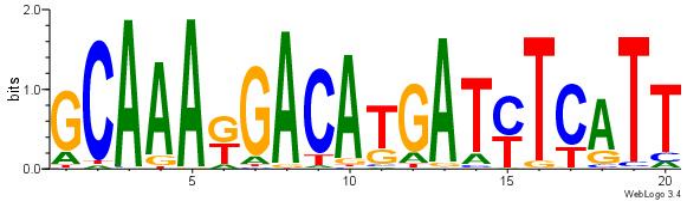

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

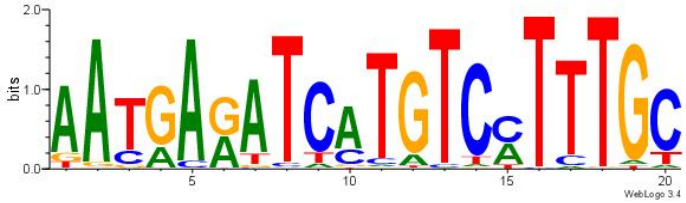

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144337

Alignment:
GACAGGAGATTAACACTGAG
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

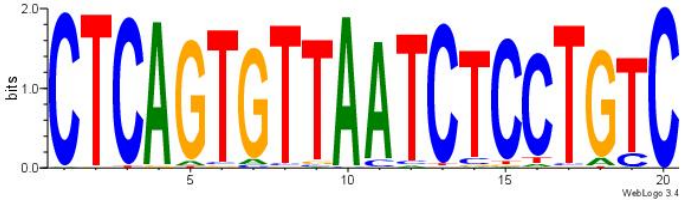

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

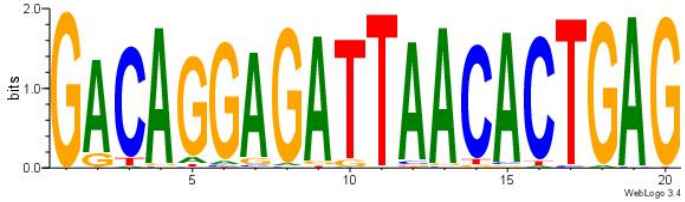

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144485

Alignment:
AGCCYCTGGYAACCAYYAWT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

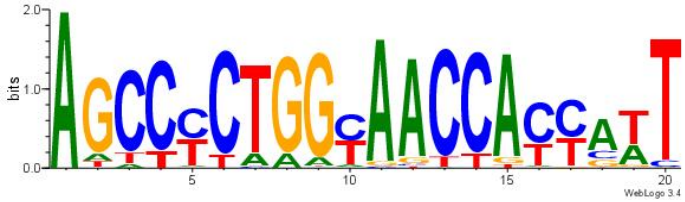

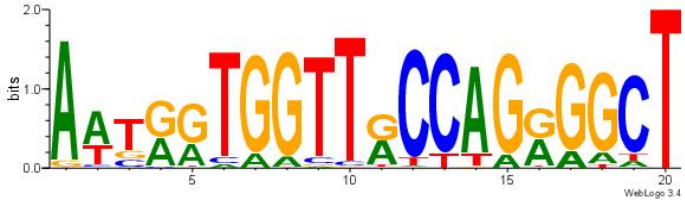

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14566

Alignment:
TGCTGGAGGTCCACTCCAGA
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

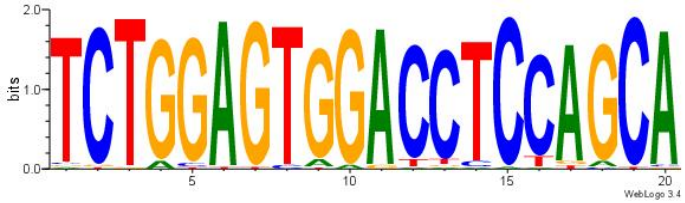

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

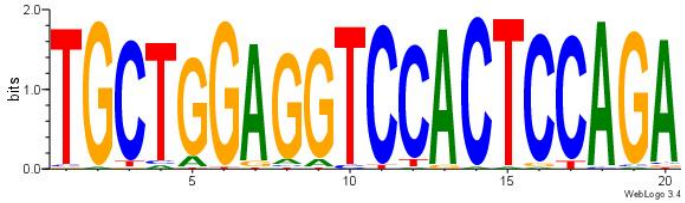

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147005

Alignment:

```
AGTAGGTGCTCARTAAATRB
GCCAATTTCTCCCATTTGGA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

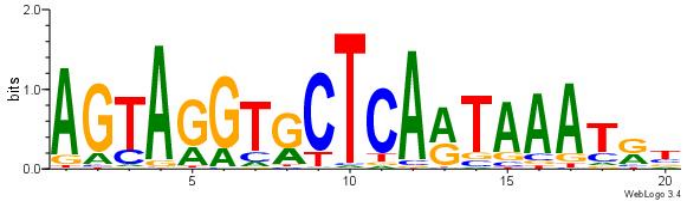

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

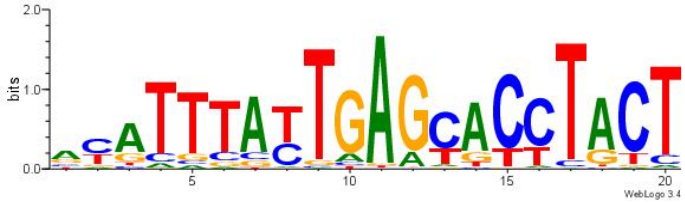

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150059

Alignment:
GGATTTMKGACTTGCATGGG
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

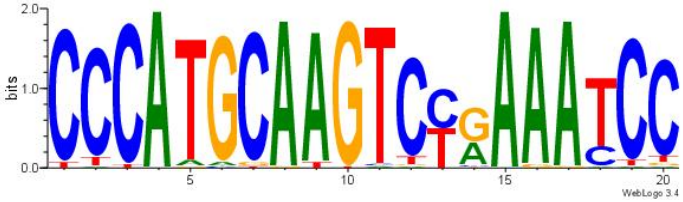

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

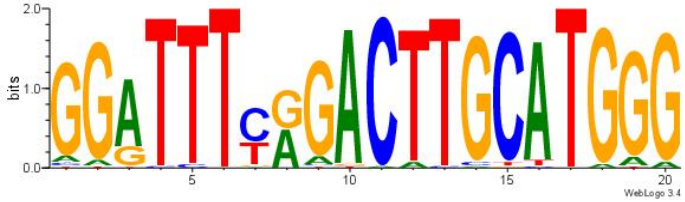

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150964

Alignment:
CAACATGGATGRARCTGGAG
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

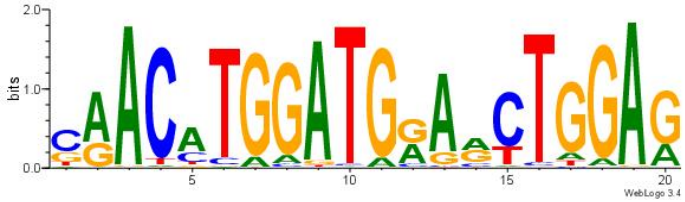

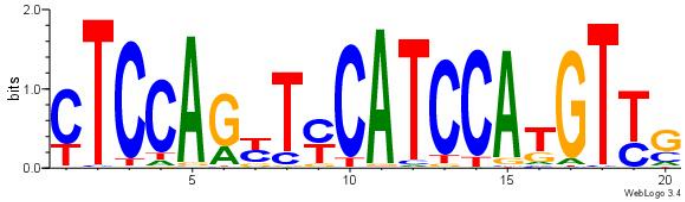

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152846

Alignment:
ATGTGGAGGTGGAAGACAGT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

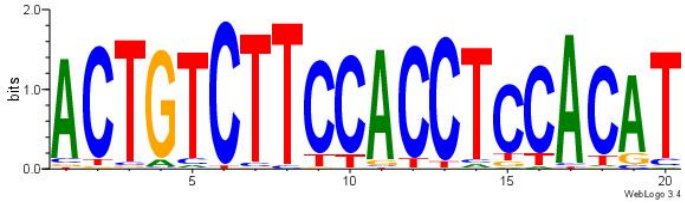

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

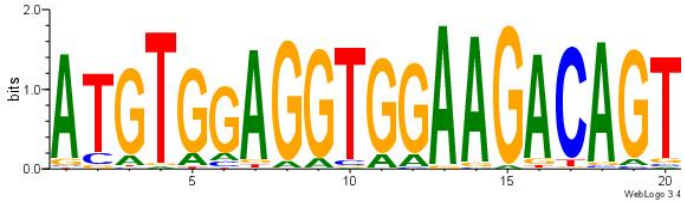

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153284

Alignment:
TTTYTWTTTTTTYTWGAGAC
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

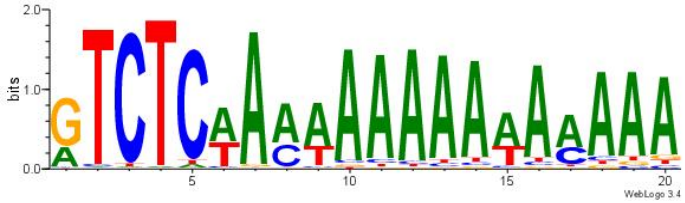

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

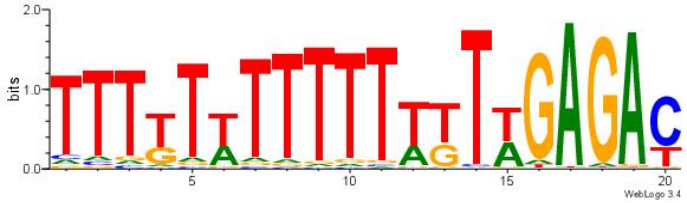

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153736

Alignment:
GAAACTGCTTTGTGATGTGT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

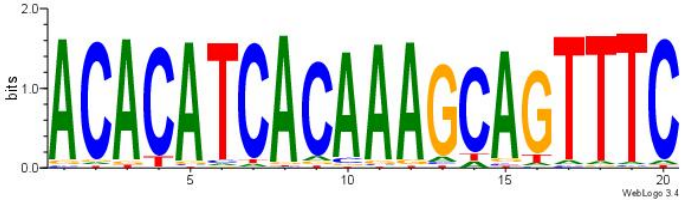

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

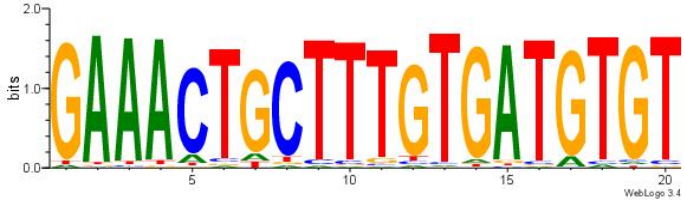

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154839

Alignment:
AGAAATCGAGCRCAGCGCCG
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

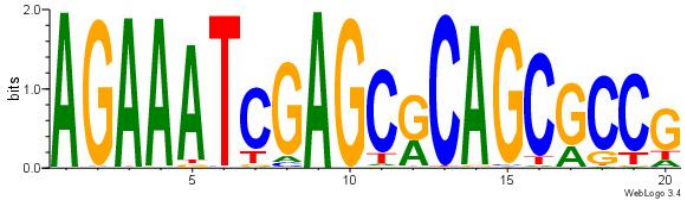

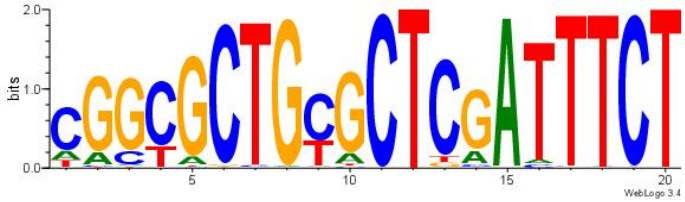

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1555

Alignment:
GGAGCCGGCTCCCTCAGCTT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

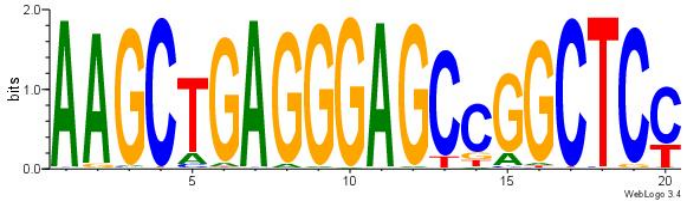

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

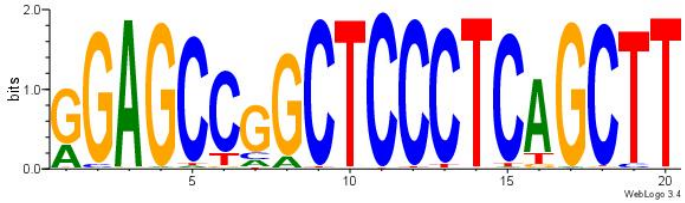

Dataset #: 1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155797

Alignment:

```
TCKMGCCACTGCACTCCAGC
GCCAATTTCTCCCATTTGGA
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

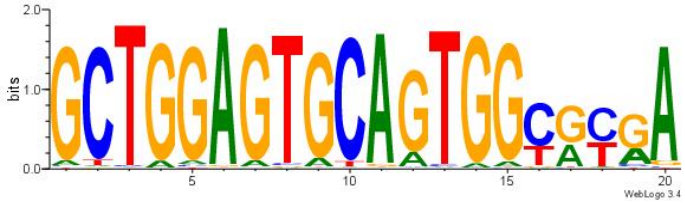

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

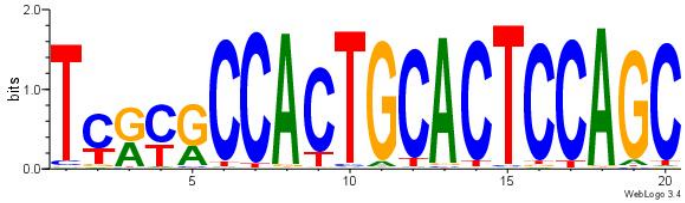

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155869

Alignment:
CTGACTGGGAGACACCTCCC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

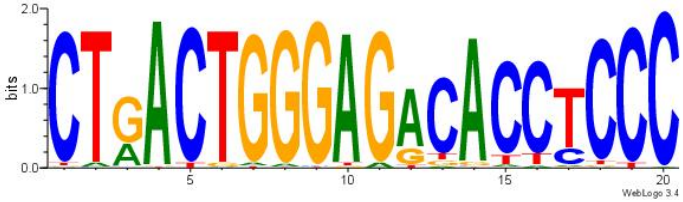

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

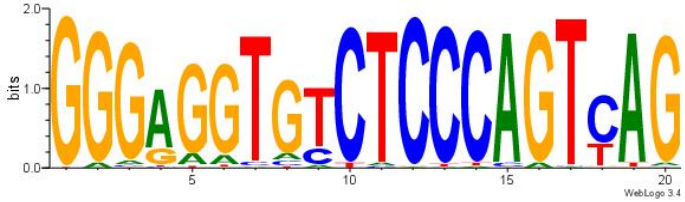

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15694

Alignment:
AAATTAGGCCAATTAATAAC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

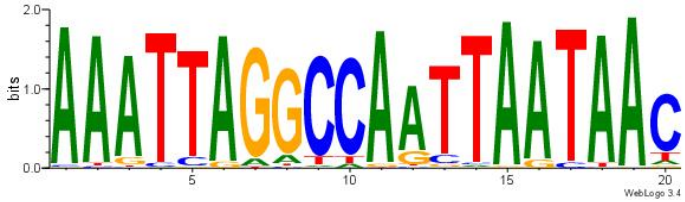

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157322

Alignment:
GTGGCCCTCTTCTCACAGCT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

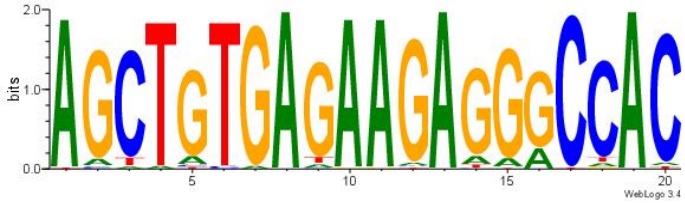

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

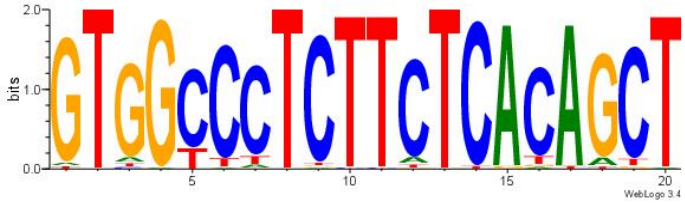

Dataset #:	1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157509

Alignment:

```
AGGTTTGTTACATAGGTAWA
GCCAATTTCTCCCATTTGGA
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

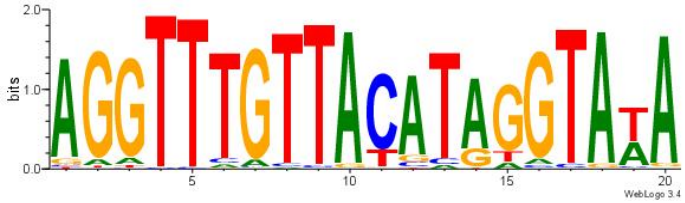

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

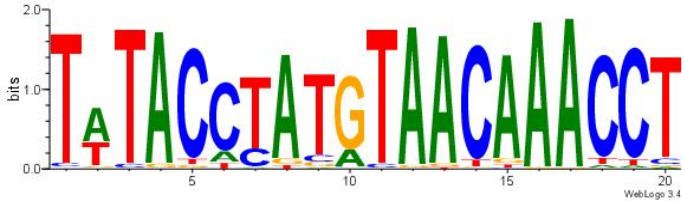

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158716

Alignment:
CRTGAGCCACYGYRCCYGGC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

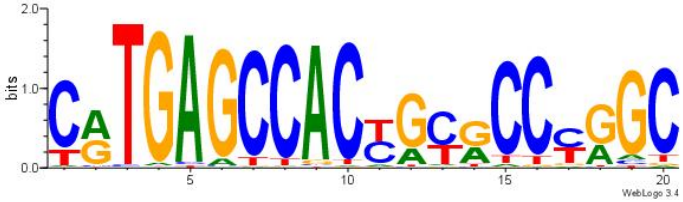

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

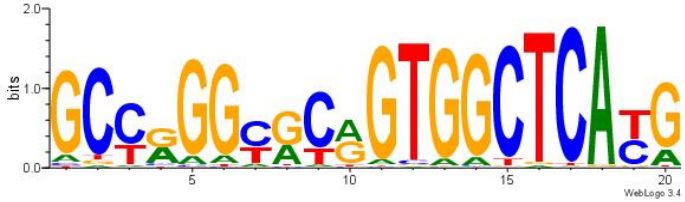

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.159558

Alignment:
CACCAGGAGATTATATCCCR
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

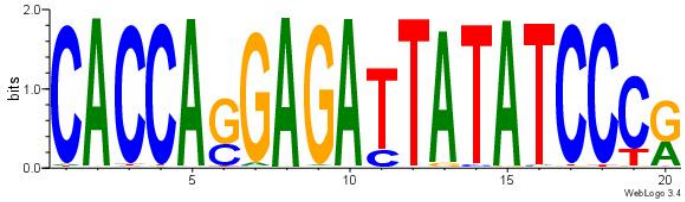

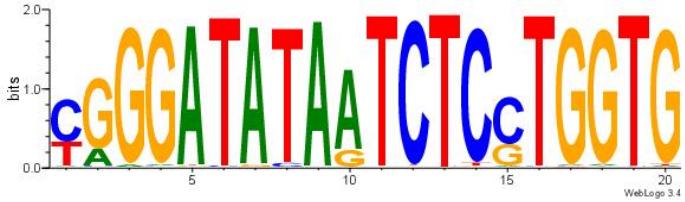

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160617

Alignment:

```
AATCAACCCTGGYRATCAAT
TCCAAATGGGAGAAATTGGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

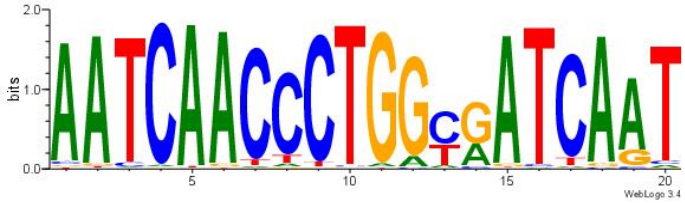

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

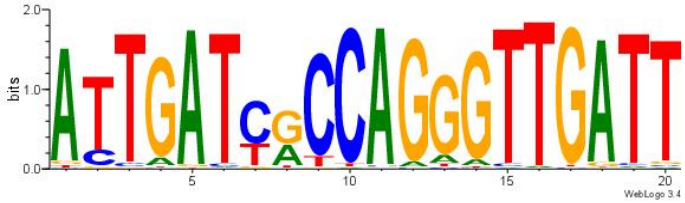

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161328

Alignment:

GGCATCACGGATCCTACCAA

GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

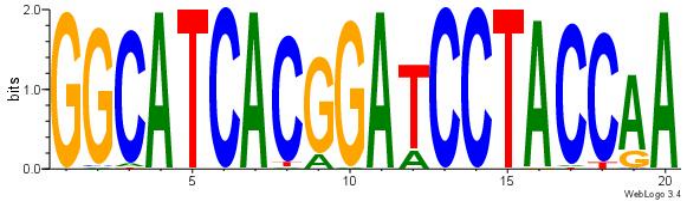

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

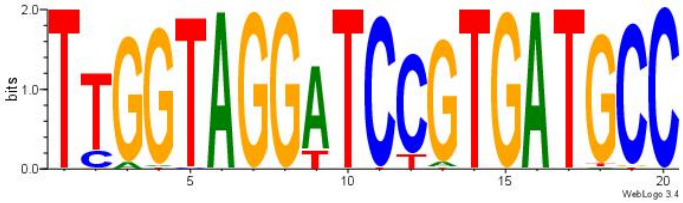

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161328

Alignment:
TCTCTCTCTCTCTCTCTCTC
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

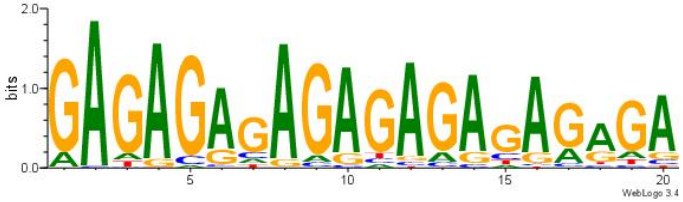

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

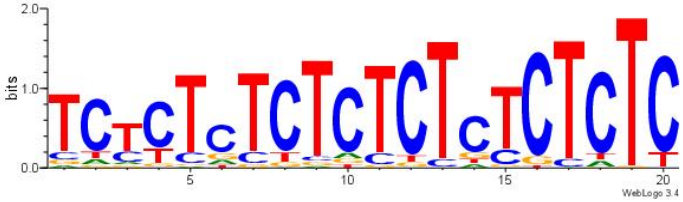

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.161872

Alignment:
TTCAMTCATGATTTGGCTCT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

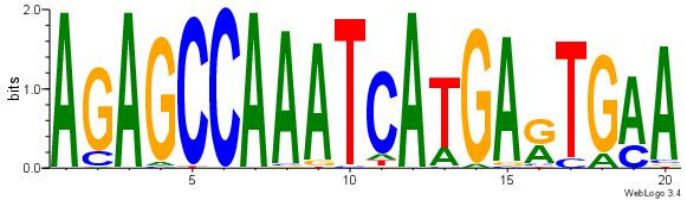

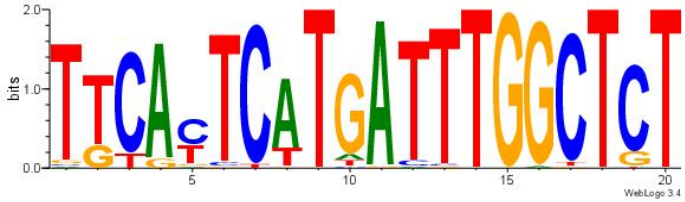

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161923

Alignment:
KKCACCTTGATCTTGGACTT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

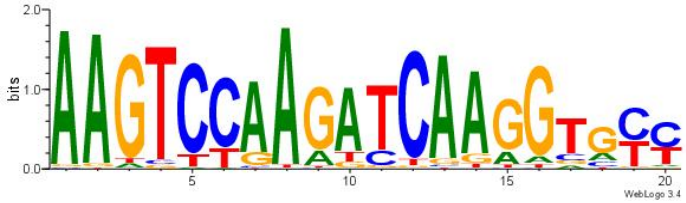

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

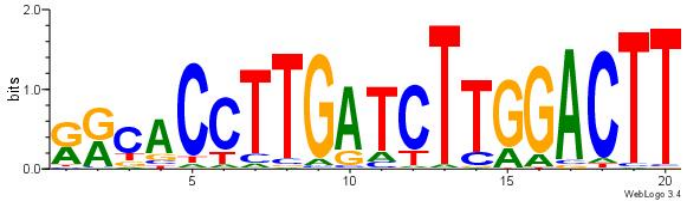

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162259

Alignment:

```
CAAGTTGACACATAAAATTA
GCCAATTTCTCCCATTTGGA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

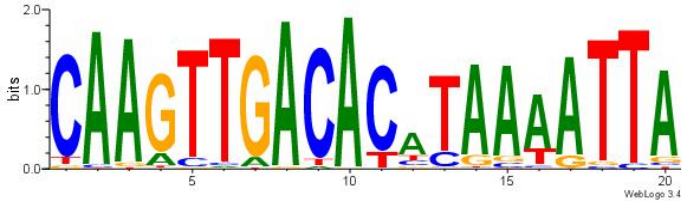

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

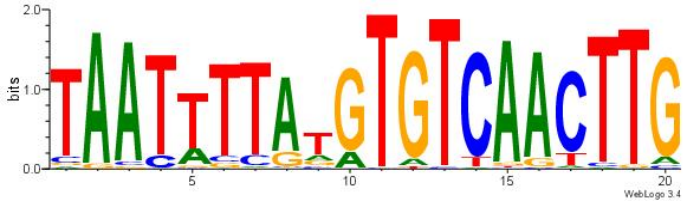

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.162883

Alignment:
CMTAGYACAGTGCCTGGCAC
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

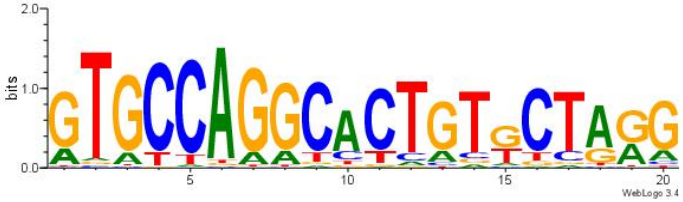

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

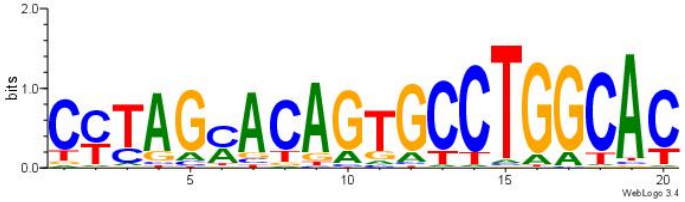

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.162972

Alignment:
ATGGAATAYTATTCAGCCAT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

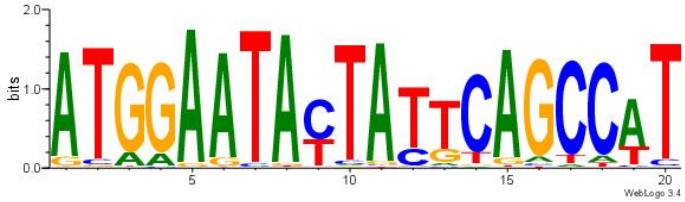

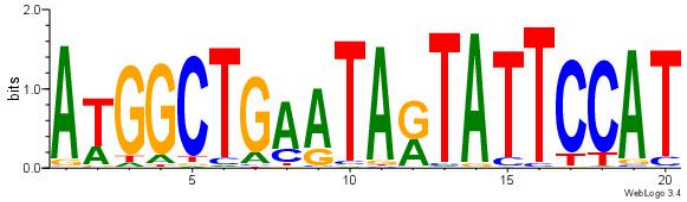

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164167

Alignment:

```
CTTGCCCAAGGTCACACAGC
TCCAAATGGGAGAAATTGGC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

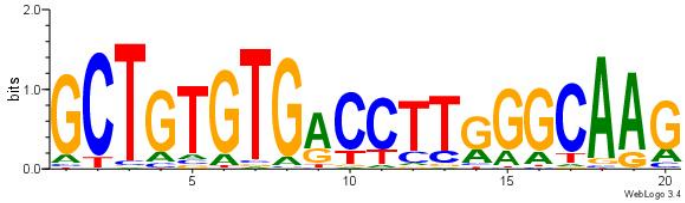

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

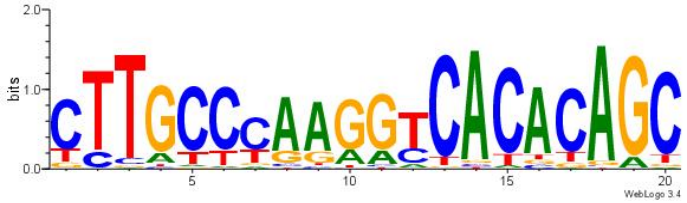

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164206

Alignment:

AAAGCTGGAGCTATTATCTA
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

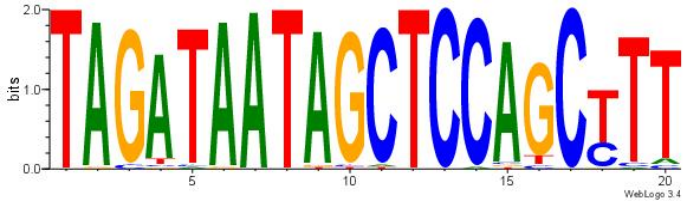

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

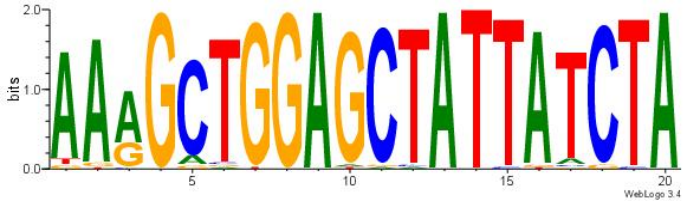

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.164207

Alignment:
TMGGGAGGCTGAGGCAGGAG
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

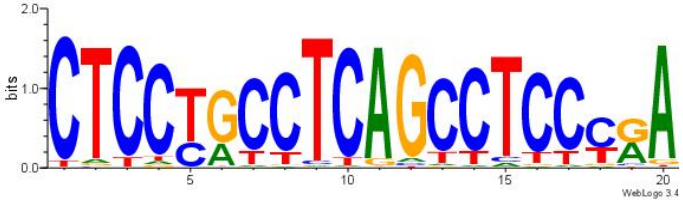

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

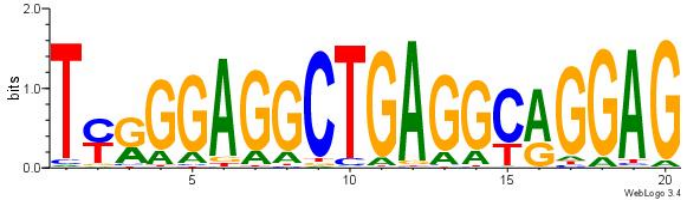

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.164925

Alignment:
TTGTCCCACTGGAAGGTCTT
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

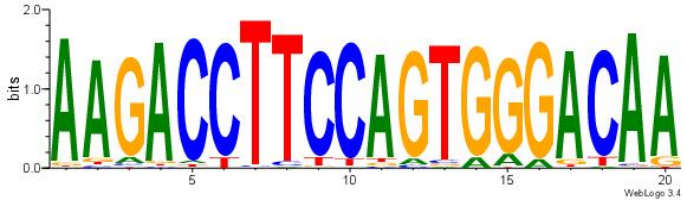

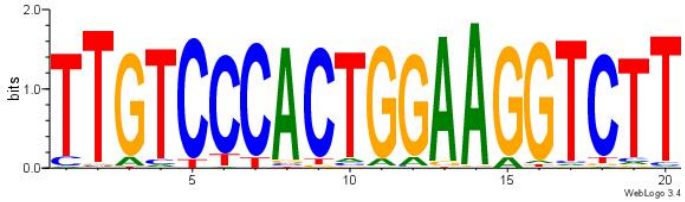

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165802

Alignment:

```
CCCMKGGCACCCTCAGTCCT
GCCAATTTCTCCCATTTGGA
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

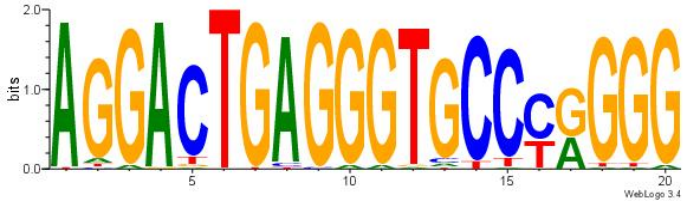

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

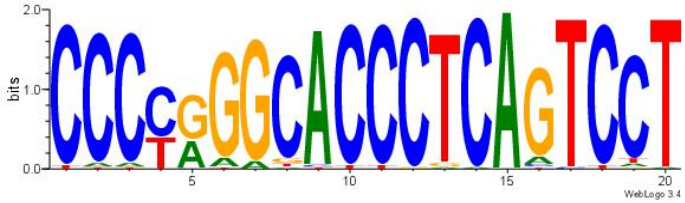

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167534

Alignment:
GAATACCTCCTGAAGGACCT
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

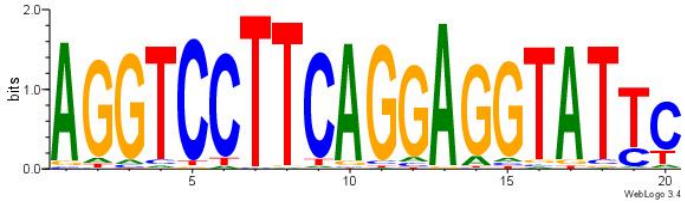

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

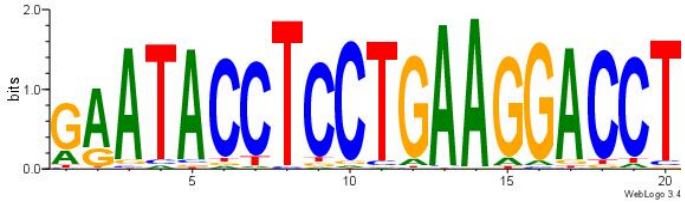

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.16767

Alignment:
CAAGCCTSKGCAATGGCAGG
TCCAAATGGGAGAAATTGGC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

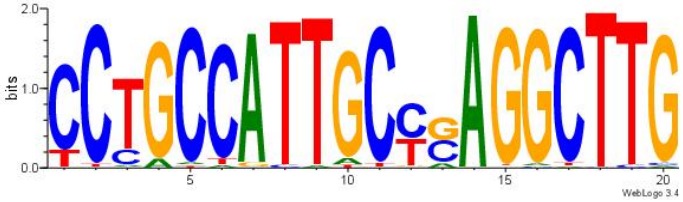

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

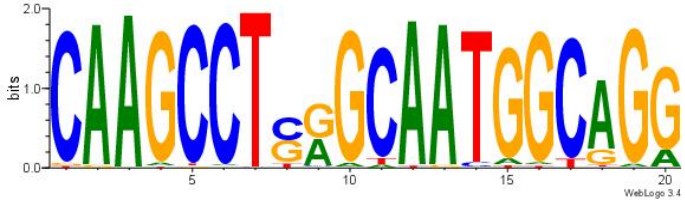

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.168063

Alignment:
GAAGGCAGCTAAGGCCCGGY
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

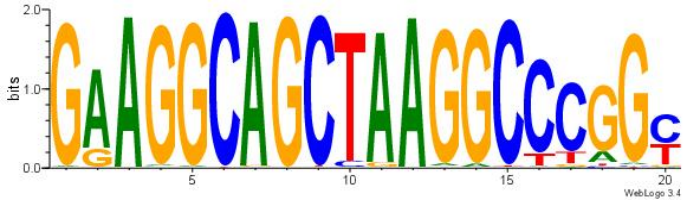

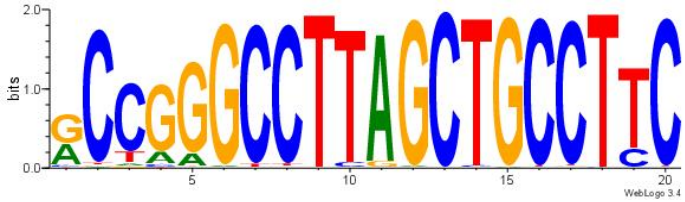

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168778

Alignment:

```
TGGAGAACCTTTATGTCTAG
TCCAAATGGGAGAAATTGGC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

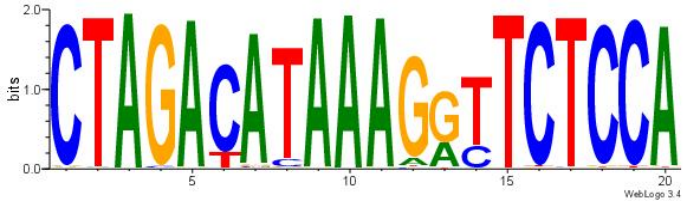

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

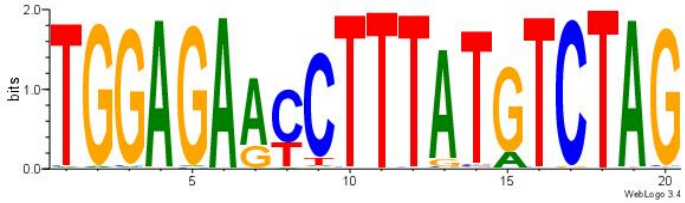

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.169247

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
GCCAATTTCTCCCATTTGGA
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

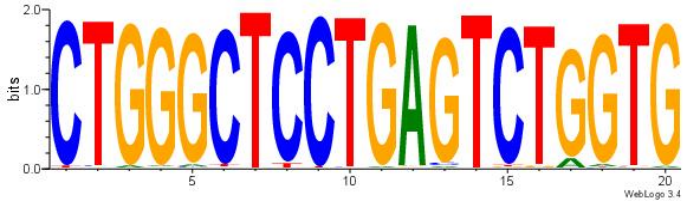

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

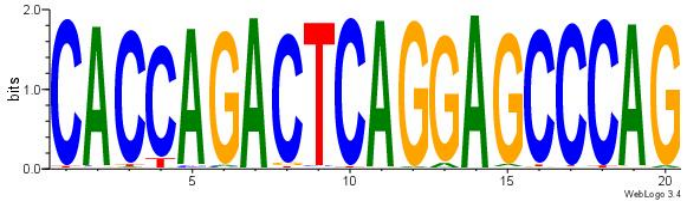

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.170731

Alignment:
CTGGGTCCCCCAGCAGTGCC
GCCAATTTCTCCCATTTGGA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

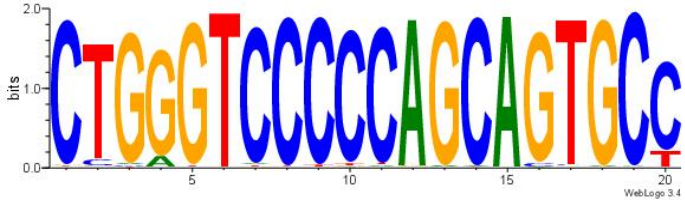

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

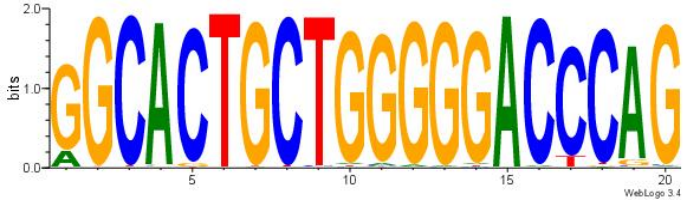

Dataset #: 1 Motif ID: 236 Motif name: Motif 236

Original motif Consensus sequence: ATCTGAGGTACCG

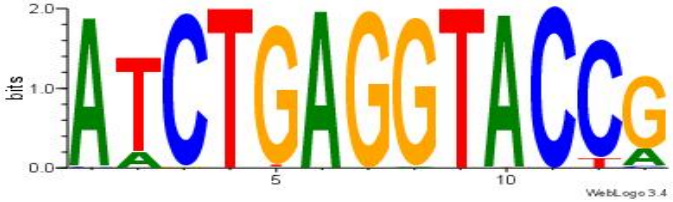

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

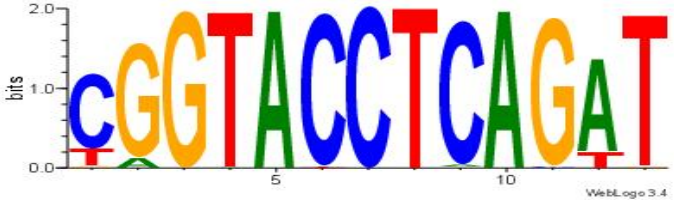

Best Matches for Motif ID 236 (Highest to Lowest)

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.072129

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
------CGGTACCTCAGAT-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

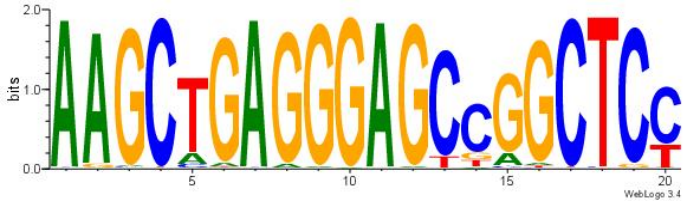

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

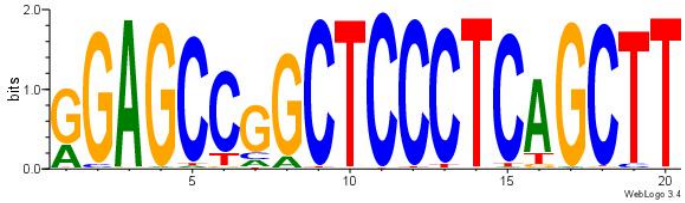

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0813404

Alignment:

```
TGGGGCTCCAGATG
CGGTACCTCAGAT-
```

Original motif Consensus sequence: CATCTGGAGCCCCA

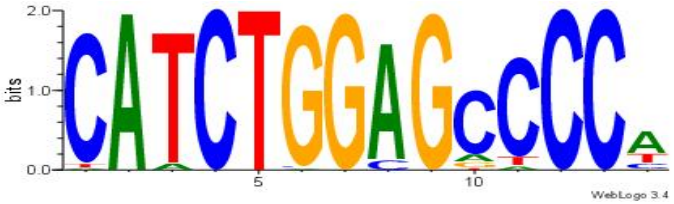

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

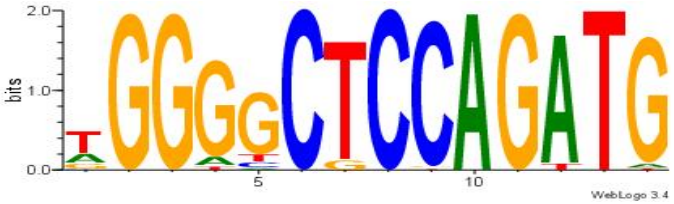

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0882611

Alignment:

```
CTGAGGACCTGAGGTCRTA
------ATCTGAGGTACCG
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

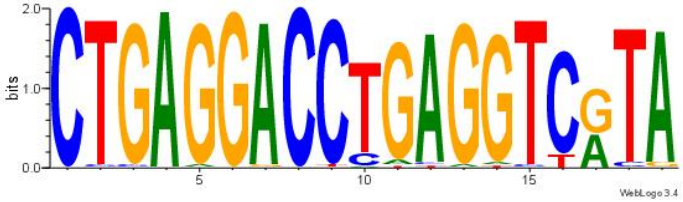

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

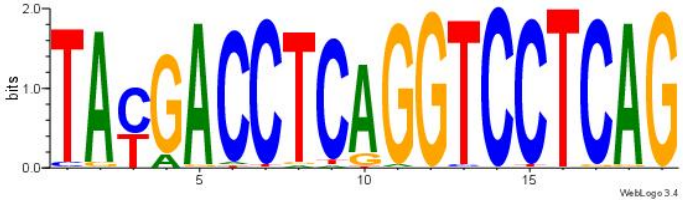

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0890438

Alignment:

```
AACTGAGGCTCAGAGA
---ATCTGAGGTACCG
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

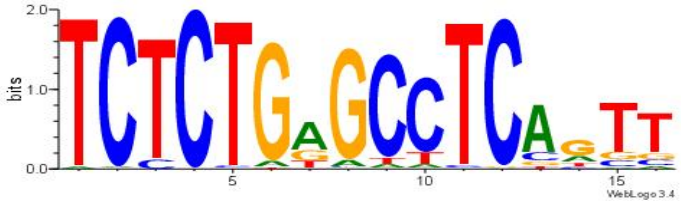

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

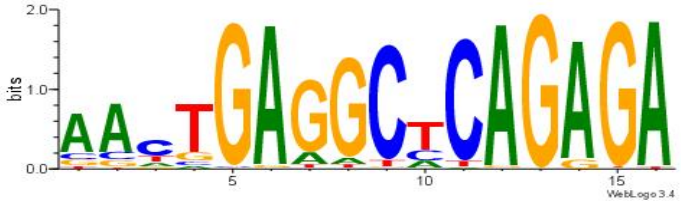

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.089076

Alignment:
TCGTTCACTCAGTGC
-CGGTACCTCAGAT-

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

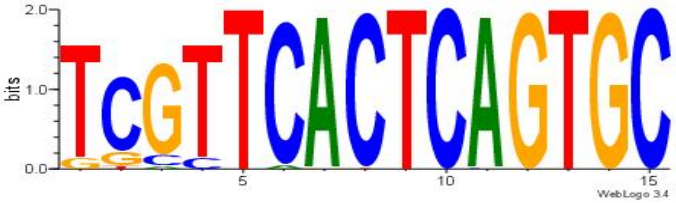

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.090202

Alignment:
GGCACTGCTGGGGGACCCAG
--ATCTGAGGTACCG-----

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

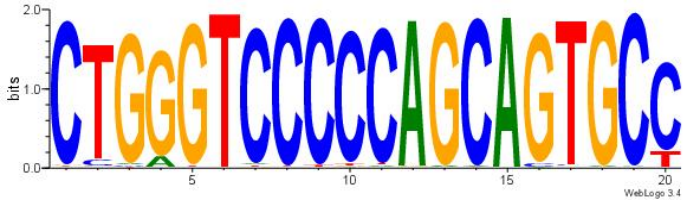

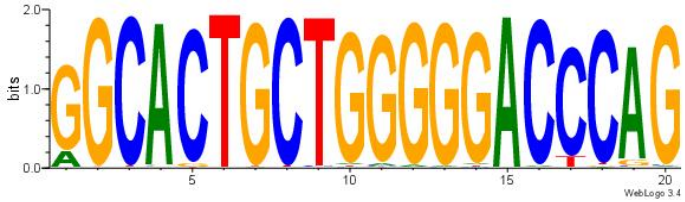

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0920893

Alignment:

```
GAATACCTCCTGAAGGACCT
ATCTGAGGTACCG-------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

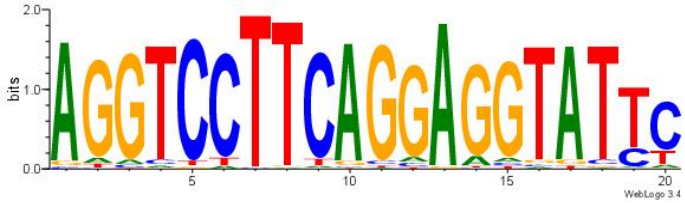

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

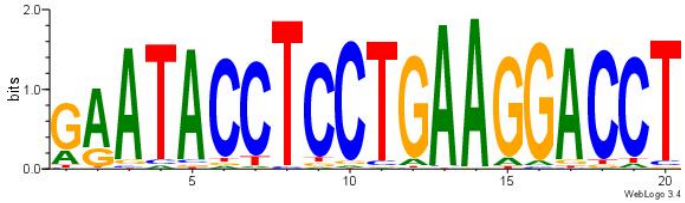

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0936903

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-CGGTACCTCAGAT------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

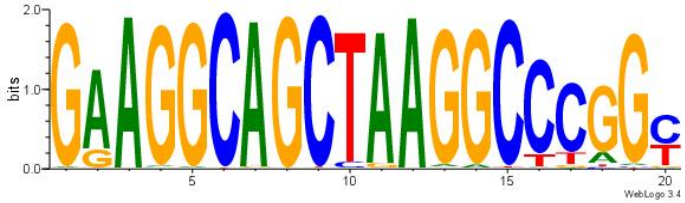

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

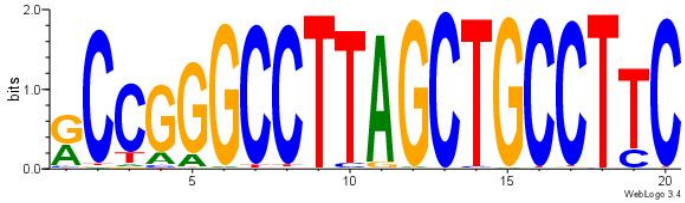

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.0943696

Alignment:
AAGTTCTKGGKTACATGTGC
----ATCTGAGGTACCG---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

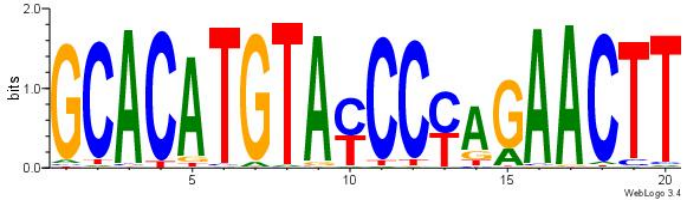

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

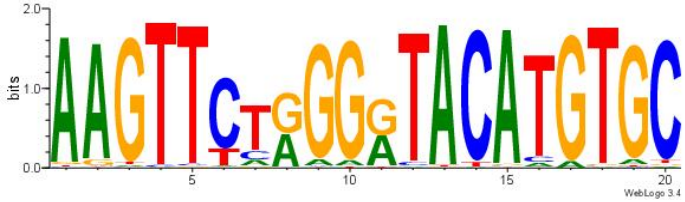

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0953732

Alignment:
GACATGAGCTGGCGCTTG
-ATCTGAGGTACCG----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence:
CAAGCGCCAGCTCATGTC

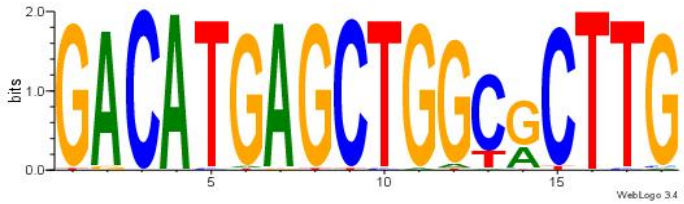

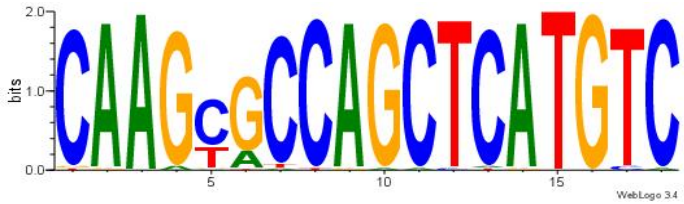

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0956473

Alignment:

```
MGCTGAGGCAGGAG
ATCTGAGGTACCG-
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

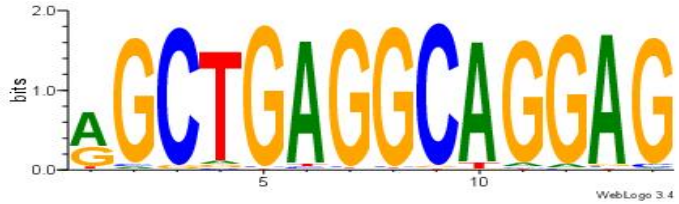

Dataset #:	1
Motif ID:	193

Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0995985

Alignment:

```
GKCTGTACCCCCATTGTAT
--CGGTACCTCAGAT----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

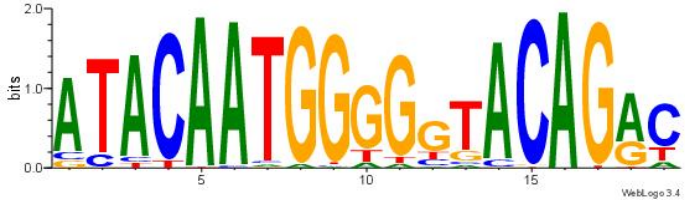

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

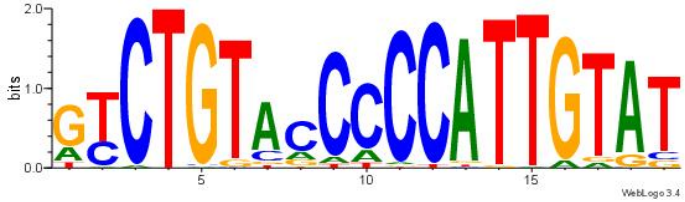

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.100062

Alignment:
CATTCTGGGGTCTGGAGGAY
--ATCTGAGGTACCG-----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

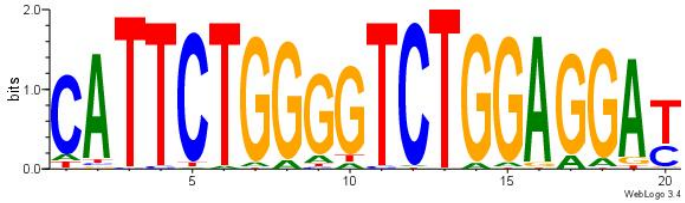

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

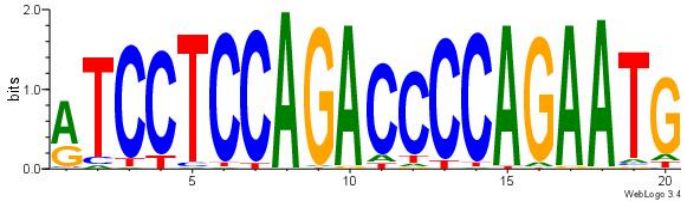

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.102165

Alignment:
MGGAAACTGAGGC
CGGTACCTCAGAT

Original motif Consensus sequence: GCCTCAGTTTCCY

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

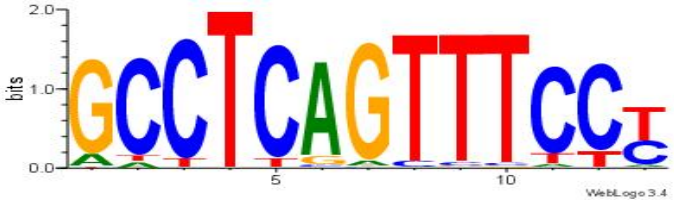

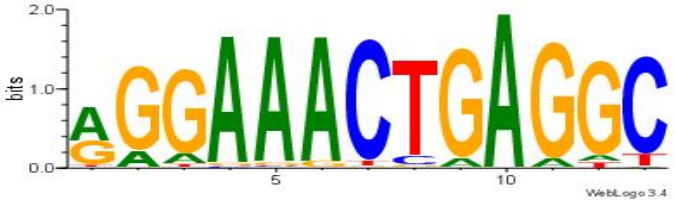

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.103256

Alignment:

```
GTTTAACCATTGAGGGCCAG
-------ATCTGAGGTACCG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

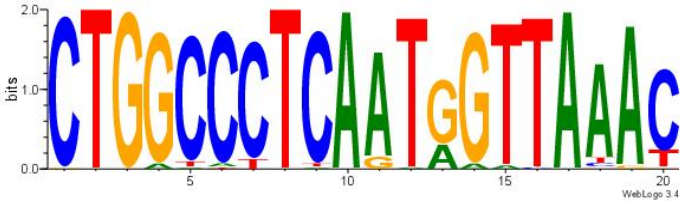

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

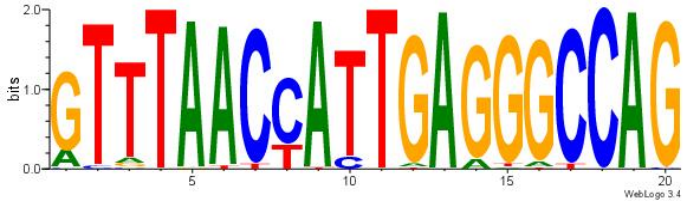

Dataset #:	1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.104294

Alignment:

```
ATCTCASAAATCACCACTA
ATCTGAGGTACCG------
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

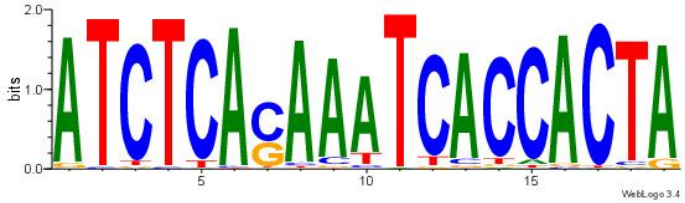

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

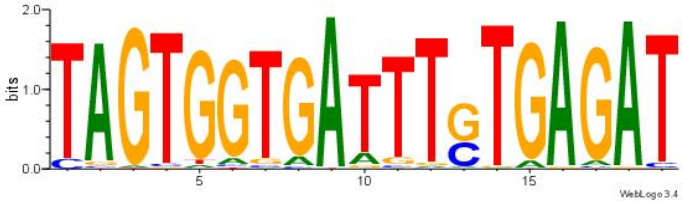

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.105547

Alignment:
AGGGATCTAGGTTGCR
CGGTACCTCAGAT---

Original motif Consensus sequence: AGGGATCTAGGTTGCR

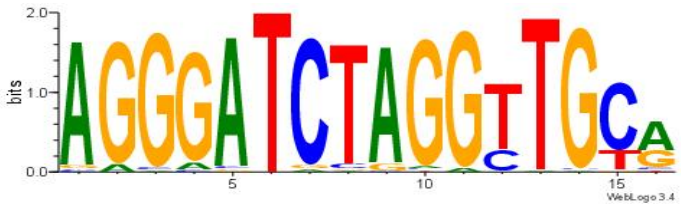

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

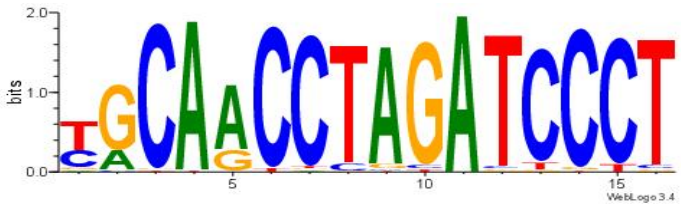

Dataset #: 1
Motif ID: 301
Motif name: Motif 301
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.10556

Alignment:
CCAAGACYCCAGAC
-CGGTACCTCAGAT

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

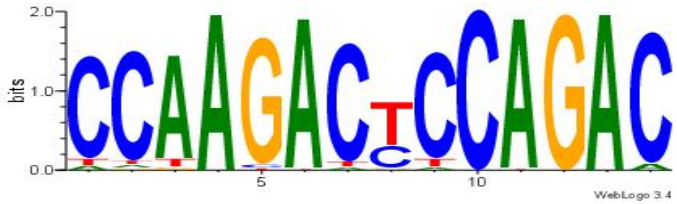

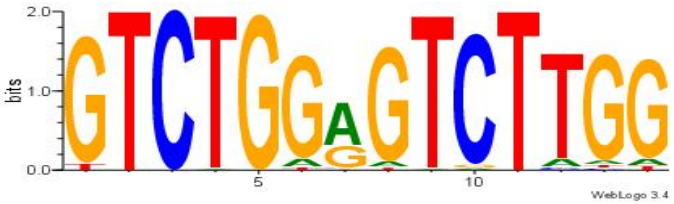

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.105741

Alignment:

```
TGGGCTGCCAGATG
CGGTACCTCAGAT-
```

Original motif Consensus sequence: CATCTGGCAGCCCA

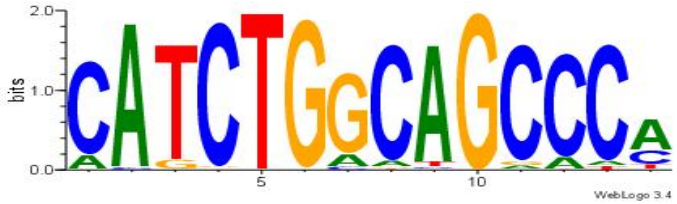

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

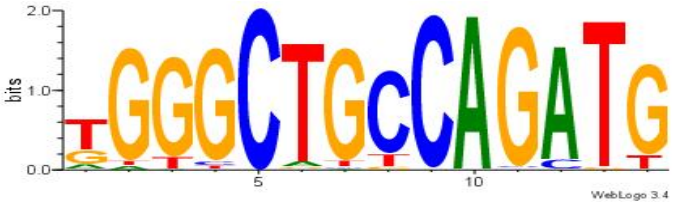

Dataset #:	1
Motif ID:	312

Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.106064

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----CGGTACCTCAGAT--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

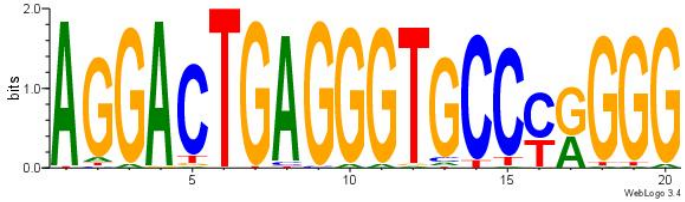

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

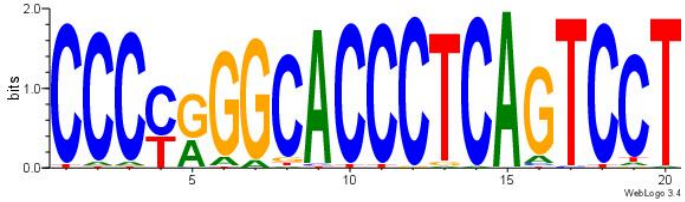

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.106309

Alignment:
GCGMGCGGGAACCGGGGCT
------CGGTACCTCAGAT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

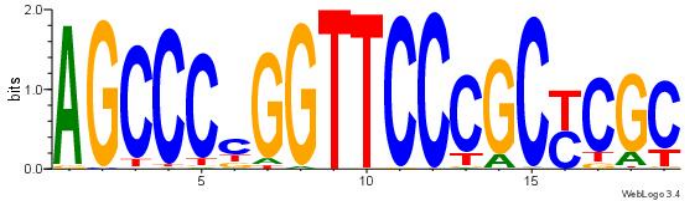

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

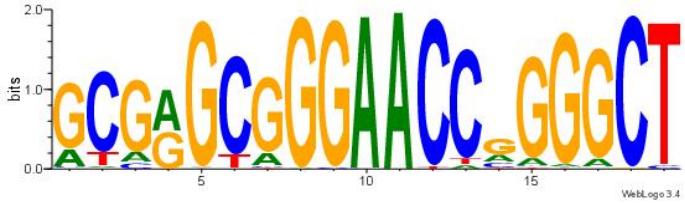

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.106543

Alignment:
GGGAGGTGTCTCCCAGTCAG
---CGGTACCTCAGAT----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

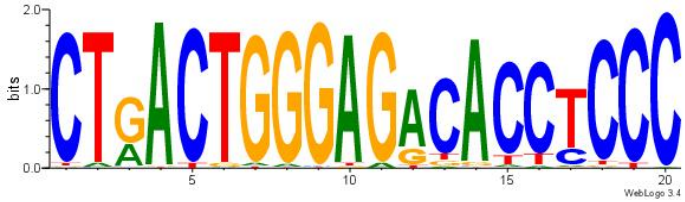

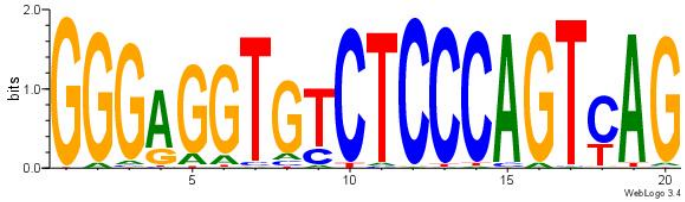

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.107014

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-CGGTACCTCAGAT------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

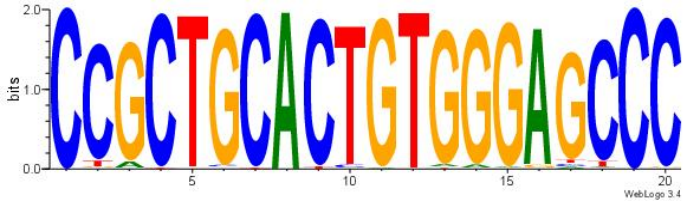

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

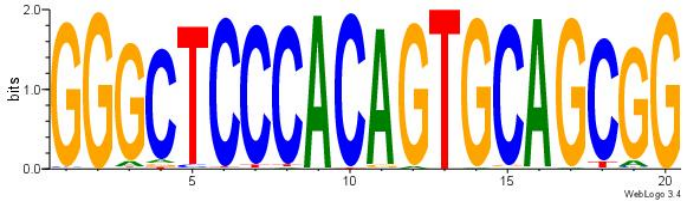

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.107089

Alignment:

```
CACCAGACTCAGGAGCCCAG
--ATCTGAGGTACCG-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

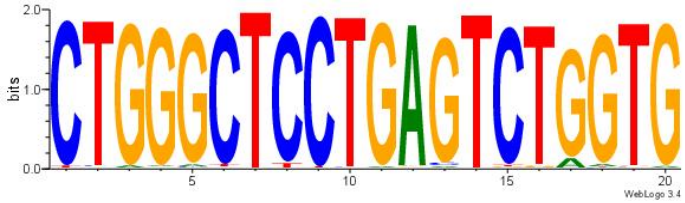

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

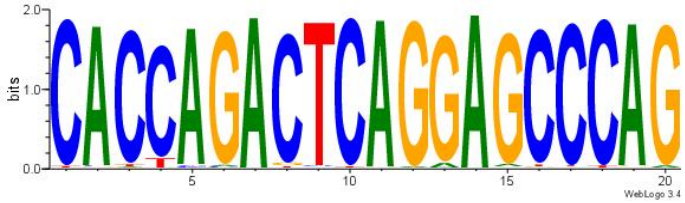

Dataset #:	1
Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.107832

Alignment:
GGGGTGAVCAGAT
CGGTACCTCAGAT

Original motif Consensus sequence: GGGGTGAVCAGAT

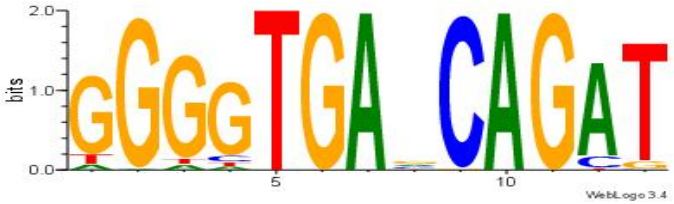

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

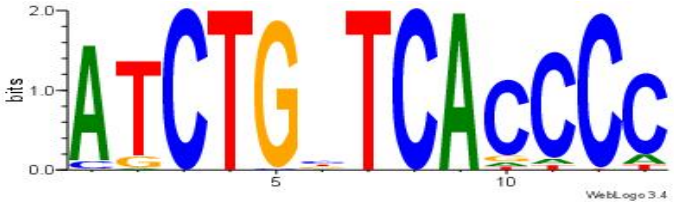

Dataset #: 1
Motif ID: 279
Motif name: Motif 279
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.108334

Alignment:
GGGGGAGACATCACACR
---CGGTACCTCAGAT-

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

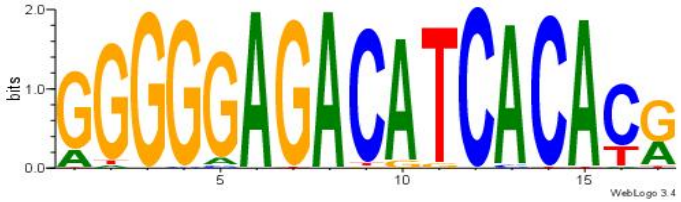

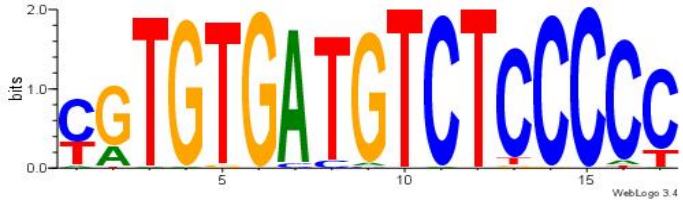

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.108693

Alignment:

```
MCCYGGCWSMGASGSTCCT
ATCTGAGGTACCG------
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

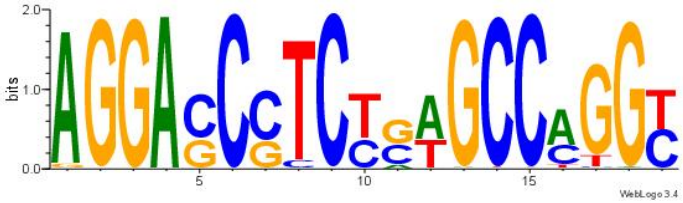

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

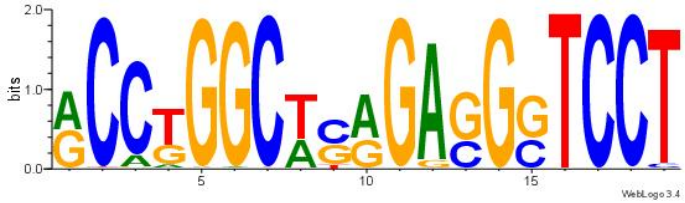

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.109124

Alignment:

```
ACCTGGAAAATCGGGTCACT
----CGGTACCTCAGAT---
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

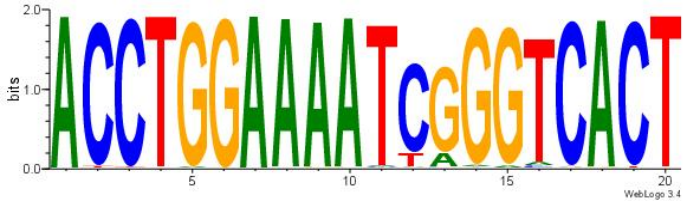

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

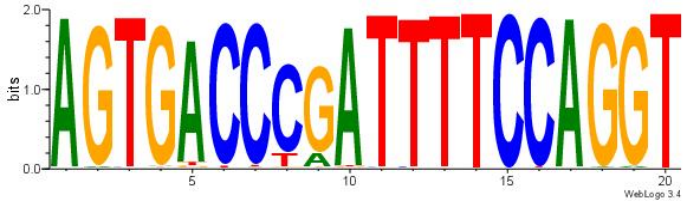

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.109686

Alignment:
TWTACCTATGTAACAAACCT
ATCTGAGGTACCG-------

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

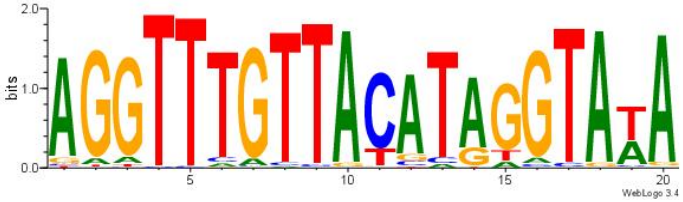

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

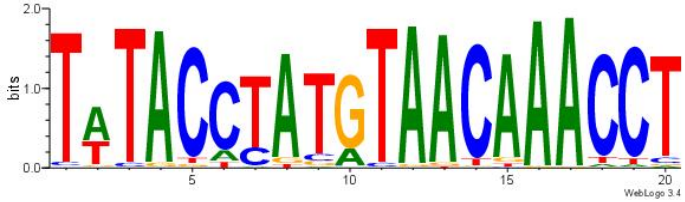

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.109942

Alignment:
CAAGGGTATAYGAGTAGCTG
-------ATCTGAGGTACCG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

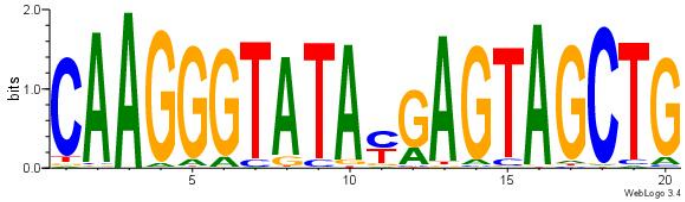

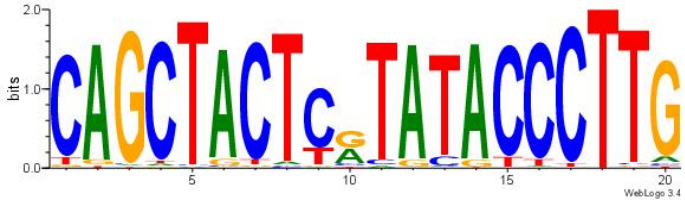

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.110249

Alignment:

```
CTTTCTGGGCTGGCCAAGG
----ATCTGAGGTACCG--
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

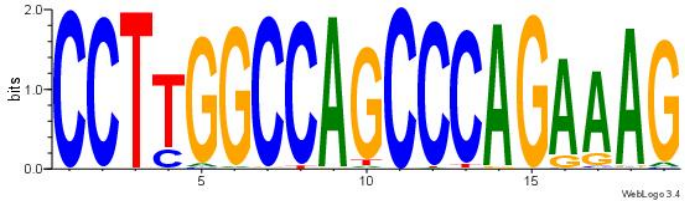

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

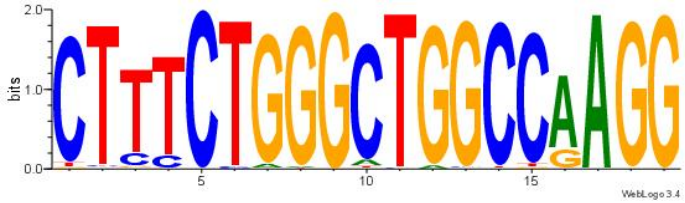

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.110298

Alignment:

```
CCCAAATCTCATSTTGAAT
-----CGGTACCTCAGAT-
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

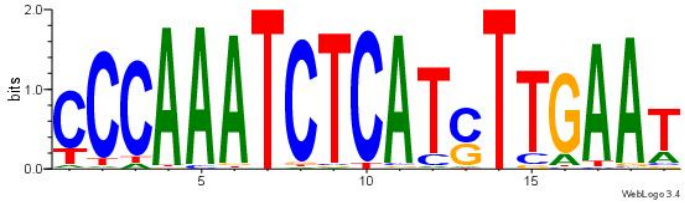

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

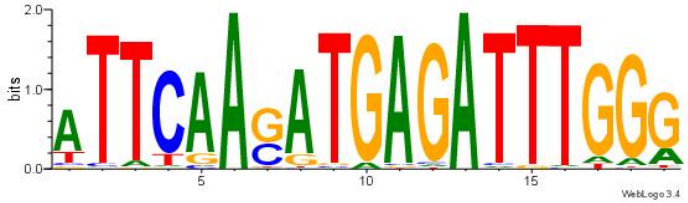

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.110371

Alignment:
AAAATGTGGTAYATAYAYAC
-ATCTGAGGTACCG------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

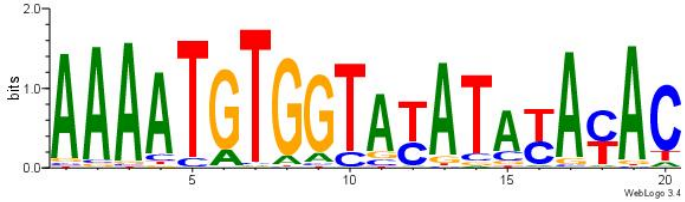

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

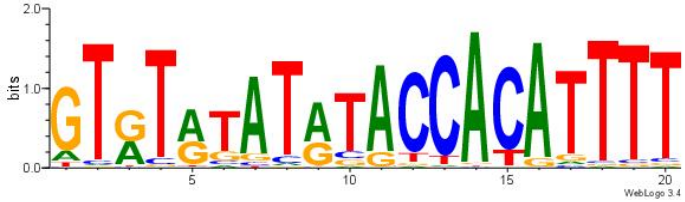

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.1104

Alignment:
TCCAAATGGGAGAAATTGGC
-----ATCTGAGGTACCG--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

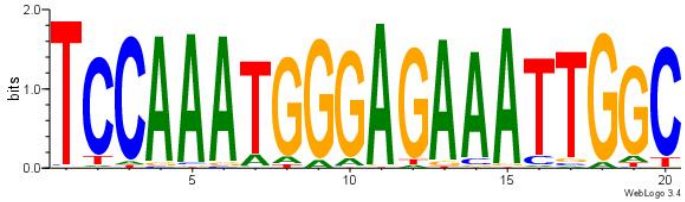

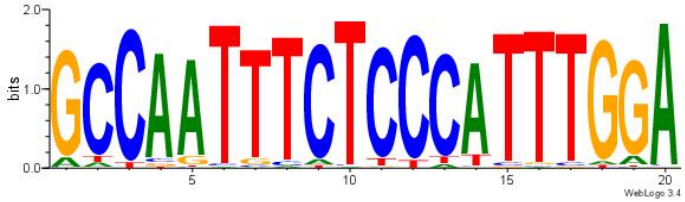

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.11071

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-ATCTGAGGTACCG------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

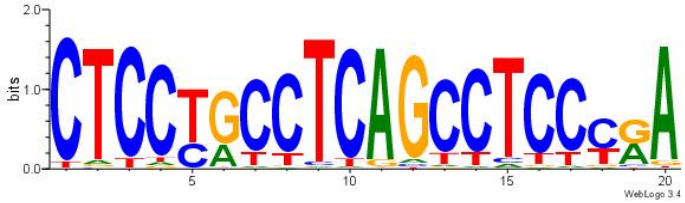

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

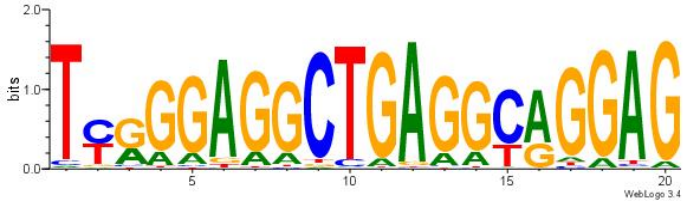

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.110941

Alignment:

```
ACATCMTCTGAAATCTAGG
-----ATCTGAGGTACCG-
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

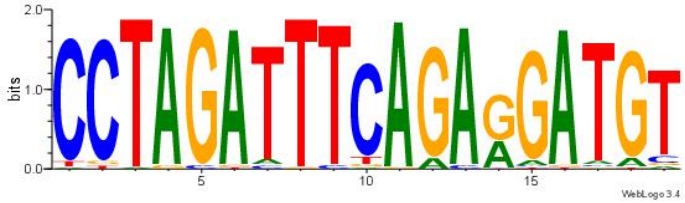

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

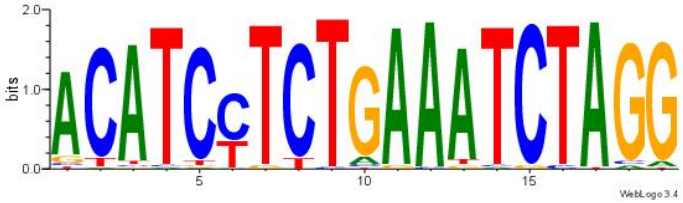

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.111129

Alignment:
CTTCGCTGACTCTCTTT
---CGGTACCTCAGAT-

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

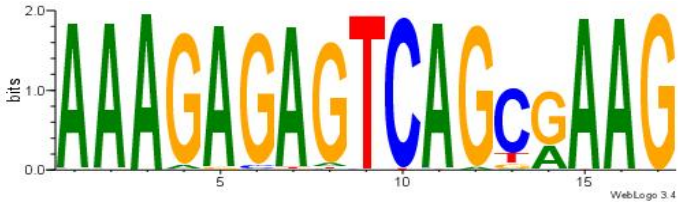

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

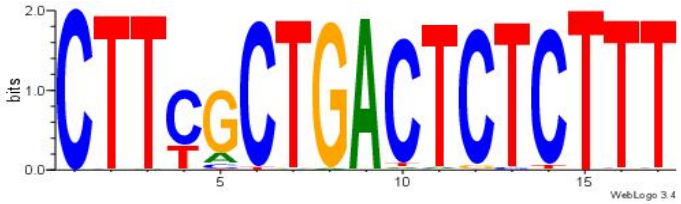

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.111715

Alignment:
CATTTGGGAGCCCATTGA
-ATCTGAGGTACCG----

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

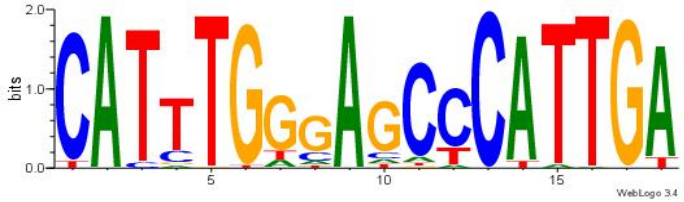

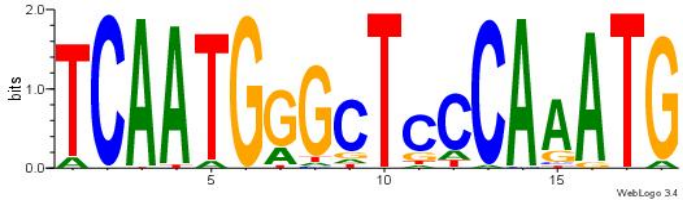

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.11268

Alignment:

```
TAATTTTATGTGTCAACTTG
--ATCTGAGGTACCG-----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

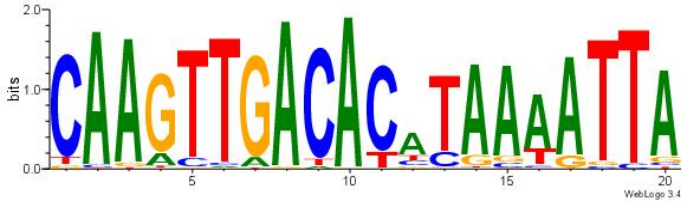

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

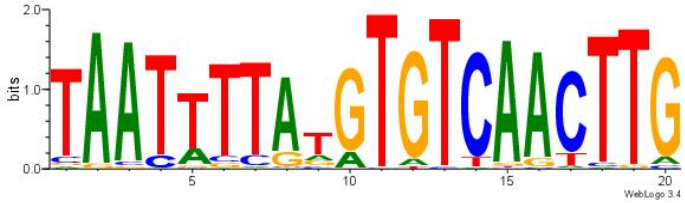

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113288

Alignment:

```
TTGGTAGGATCCGTGATGCC
ATCTGAGGTACCG-------
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

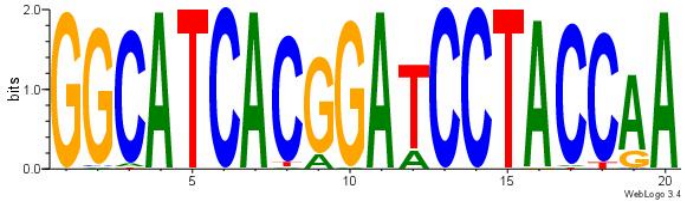

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

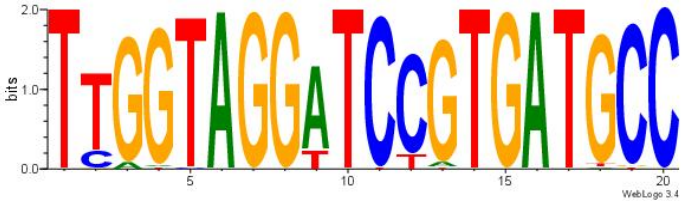

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.113514

Alignment:
GCGGCCGGGCAGAG
-CGGTACCTCAGAT

Original motif Consensus sequence: CTCTGCCCGGCCGC

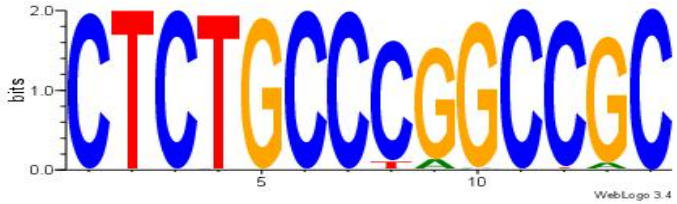

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

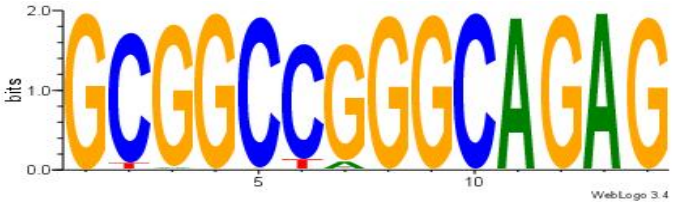

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.114163

Alignment:
AAAGCTGGAGCTATTATCTA
----CGGTACCTCAGAT---

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

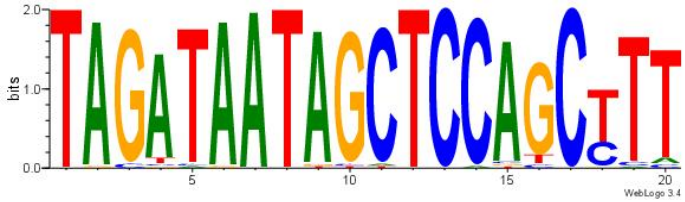

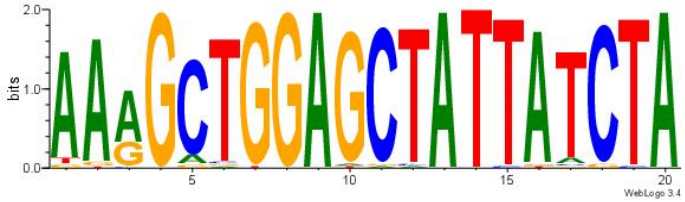

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.11484

Alignment:

```
GTGCCAGGCACTGTKCTARG
ATCTGAGGTACCG-------
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

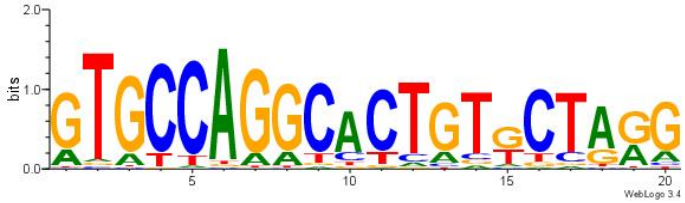

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

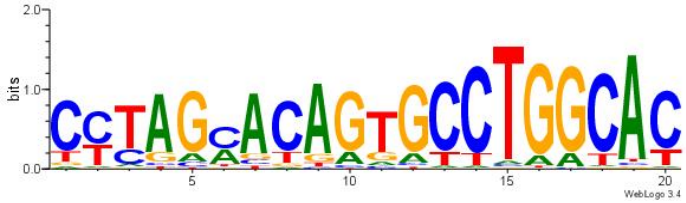

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.115779

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--CGGTACCTCAGAT-----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

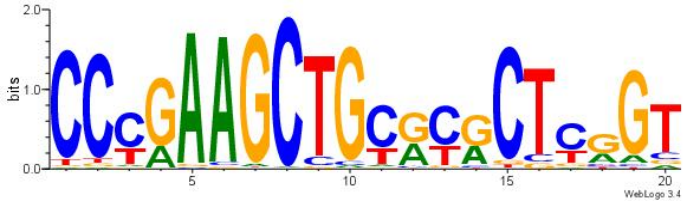

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

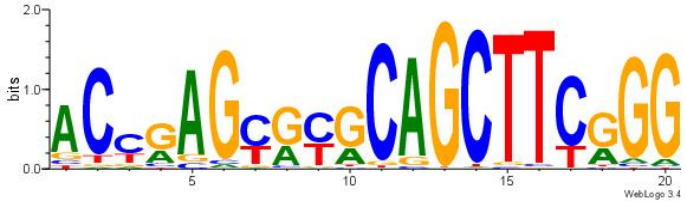

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.116265

Alignment:
CTGGGCRACAGAGYRAGACY
-------CGGTACCTCAGAT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

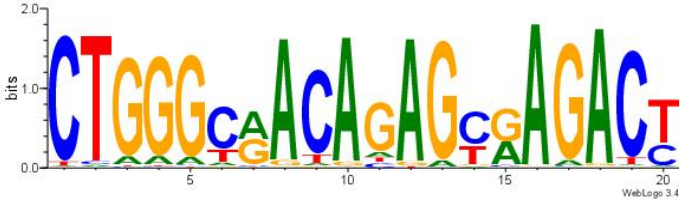

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

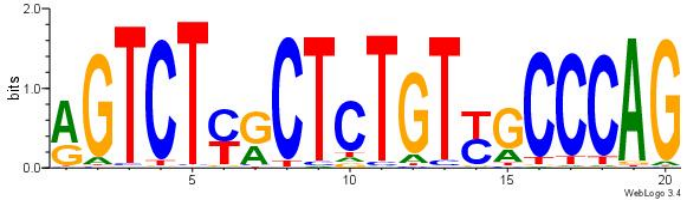

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 13
Similarity score: 0.116323

Alignment:
ATCTGACAGGAGGYRGAGCT
ATCTGAGGTACCG-------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

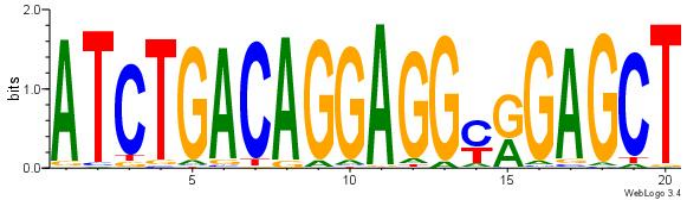

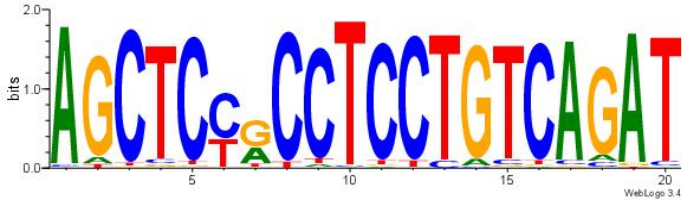

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.117265

Alignment:

```
AGCCYCTGGYAACCAYYAWT
CGGTACCTCAGAT-------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

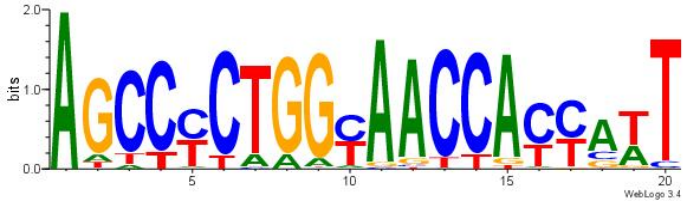

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

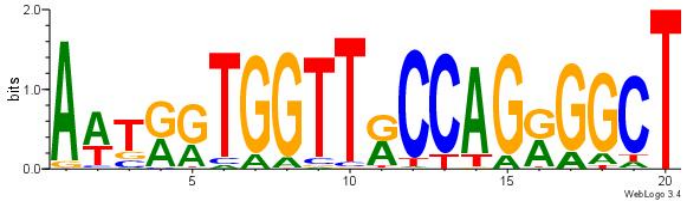

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.117391

Alignment:

```
CACCAGGAGATTATATCCCR
-------ATCTGAGGTACCG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

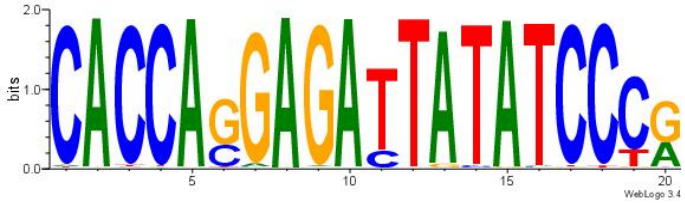

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

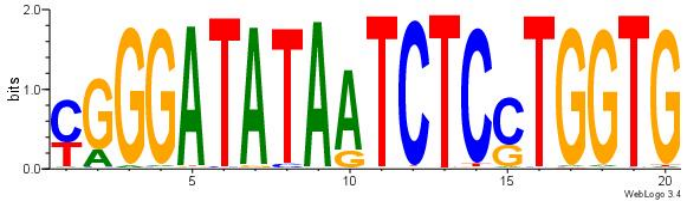

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.117593

Alignment:
AGGCTGTTTTACAGTTAAC
-----ATCTGAGGTACCG-

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

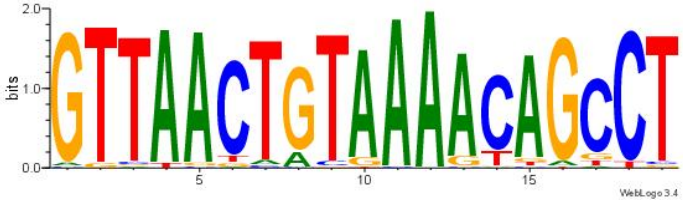

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

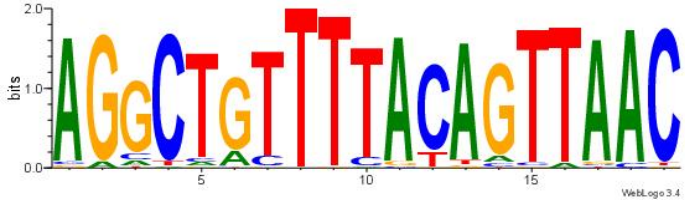

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.119179

Alignment:
CATTAGATTCTCATAGGA
--CGGTACCTCAGAT---

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

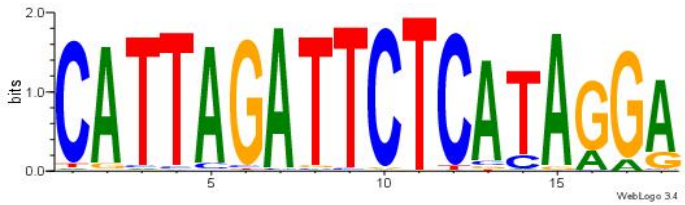

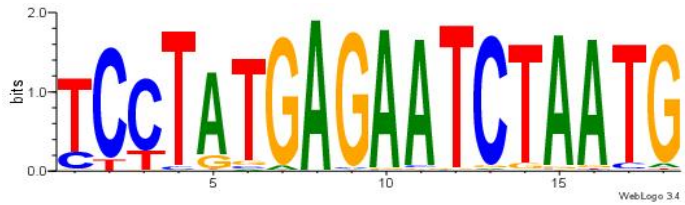

Dataset #: 1 Motif ID: 237 Motif name: Motif 237

Original motif Consensus sequence: TAGCCAAGGRAA

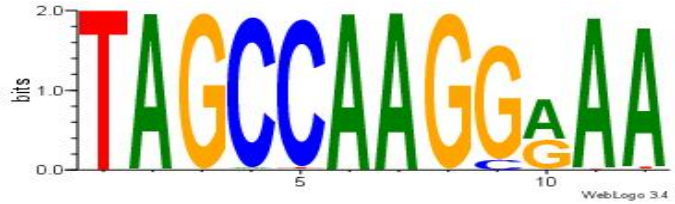

Reverse complement motif Consensus sequence: TTKCCTTGGCTA

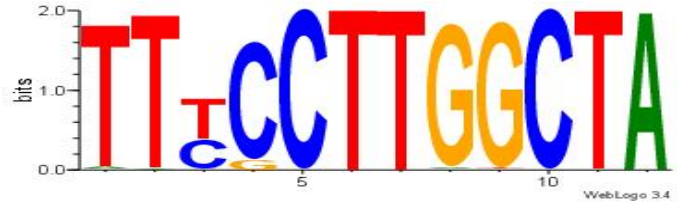

Best Matches for Motif ID 237 (Highest to Lowest)

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.056906

Alignment:

```
CTGGTCAAGGAAA
-TAGCCAAGGRAA
```

Original motif Consensus sequence: CTGGTCAAGGAAA

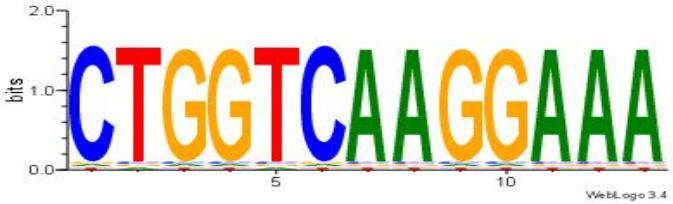

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

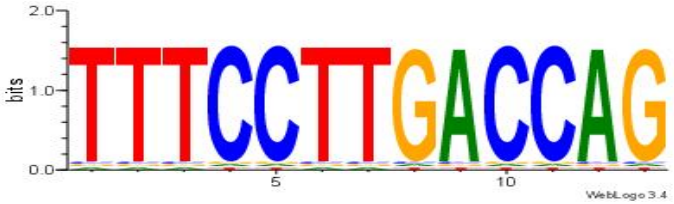

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0581846

Alignment:

```
TTTCTTTGACTRG
TTKCCTTGGCTA-
```

Original motif Consensus sequence: CKAGTCAAAGAAA

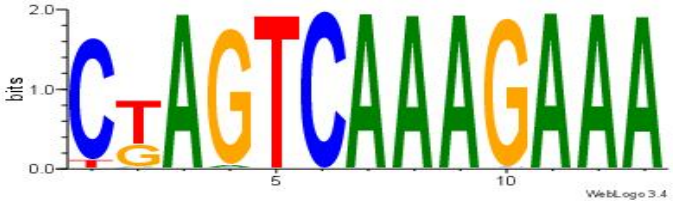

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

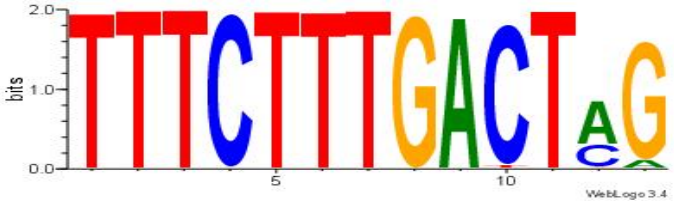

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0704633

Alignment:

```
TGATACCCAGGCAAACAG
---TAGCCAAGGRAA---
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

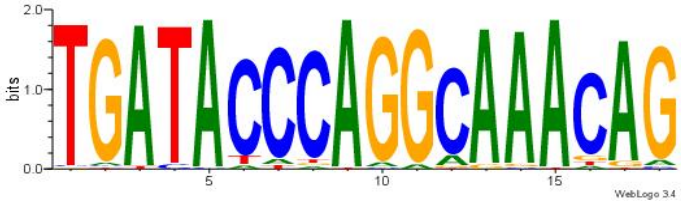

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

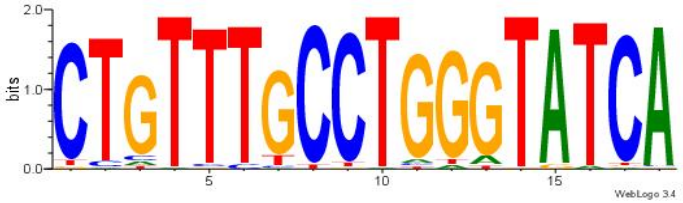

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0840989

Alignment:
CAAGCCTSKGCAATGGCAGG
-------TAGCCAAGGRAA-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

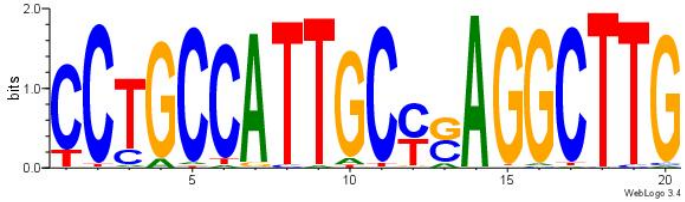

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

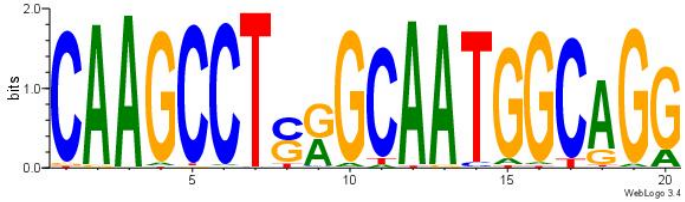

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0852018

Alignment:
CCTTGGCCAGCCCAGAAAG
-------TAGCCAAGGRAA

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

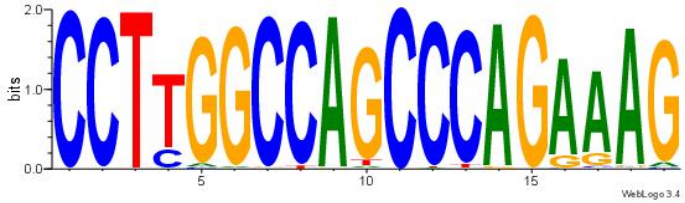

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

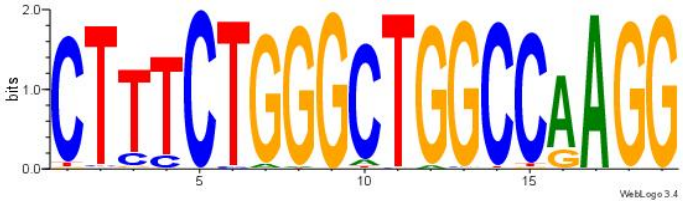

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0879872

Alignment:

```
TTCAMTCATGATTTGGCTCT
-------TTKCCTTGGCTA-
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

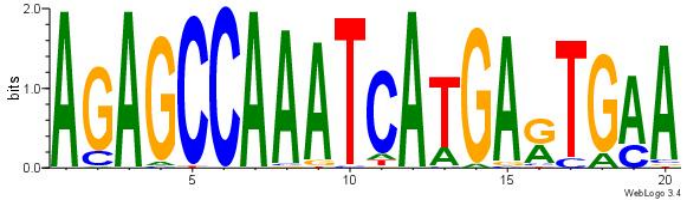

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

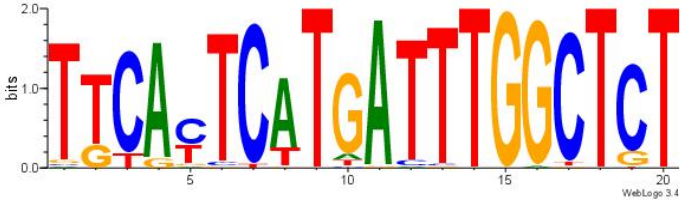

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.089446

Alignment:

```
TGAGKCAATTAAACCTCTT
------TAGCCAAGGRAA-
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

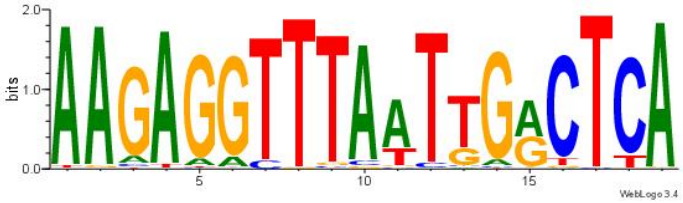

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

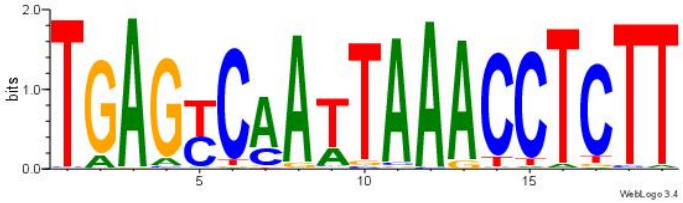

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 12
Similarity score: 0.0898266

Alignment:
KCCGGGCCTTAGCTGCCTTC
---TTKCCTTGGCTA-----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

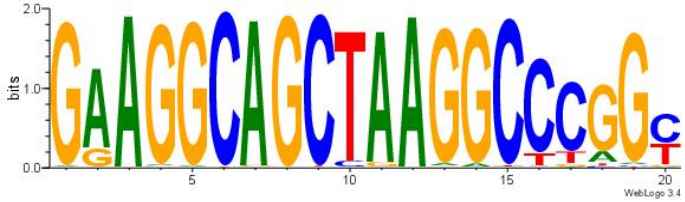

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

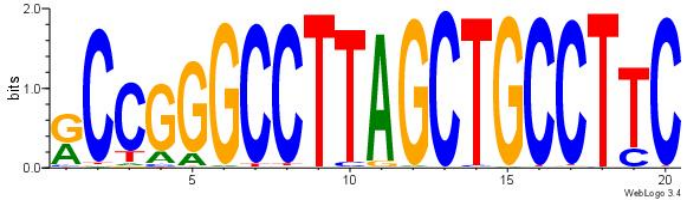

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0908948

Alignment:
GTTGGCCAGGCTGGTCT
-TTKCCTTGGCTA----

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

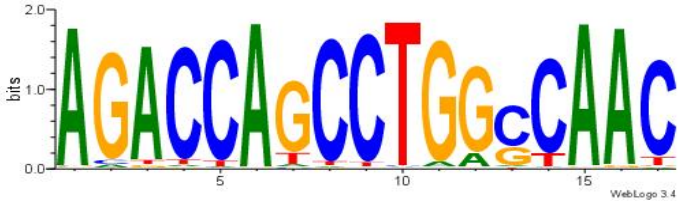

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

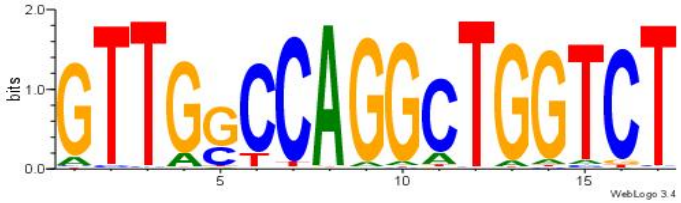

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0943088

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
TAGCCAAGGRAA--------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

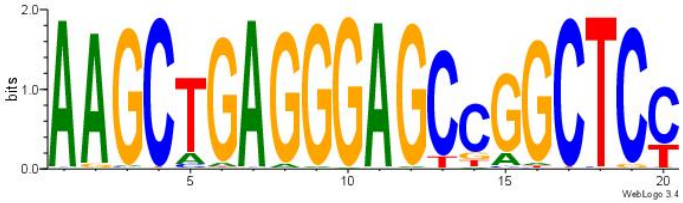

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

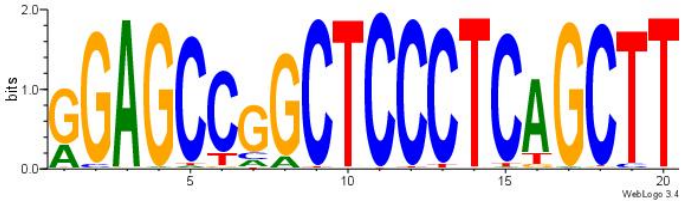

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0943914

Alignment:

```
CTCAGGAATGGAAAACC
--TAGCCAAGGRAA---
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

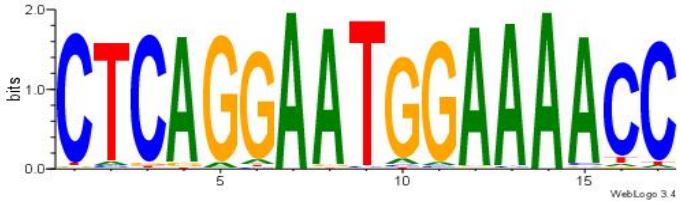

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

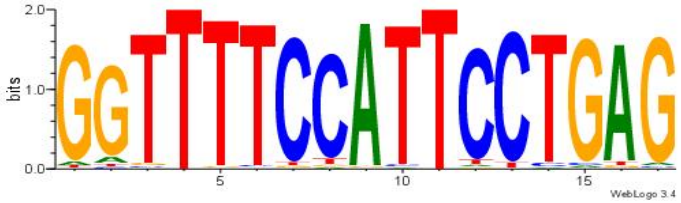

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 12
Similarity score: 0.0955537

Alignment:
CCTCCGTGGGCTCC
-TTKCCTTGGCTA-

Original motif Consensus sequence: CCTCCGTGGGCTCC

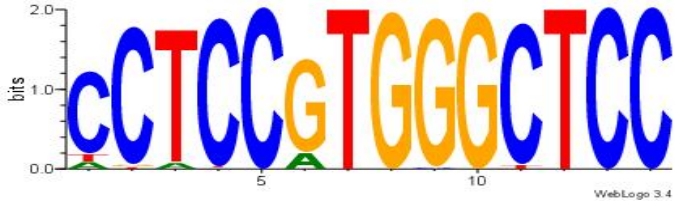

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

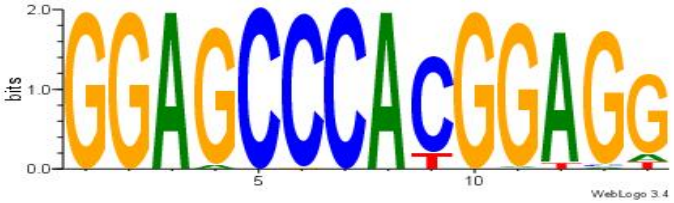

Dataset #: 1
Motif ID: 212
Motif name: Motif 212
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0960713

Alignment:
MTTGACTACCCTA
-TTKCCTTGGCTA

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

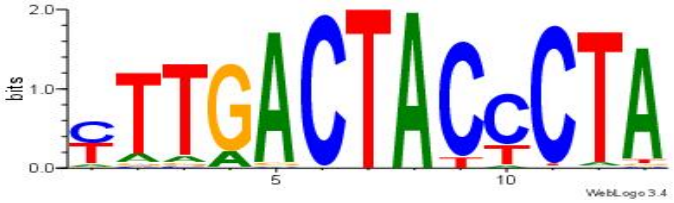

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0967255

Alignment:

```
AGAAAGGCATGTGAAAA
---TAGCCAAGGRAA--
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

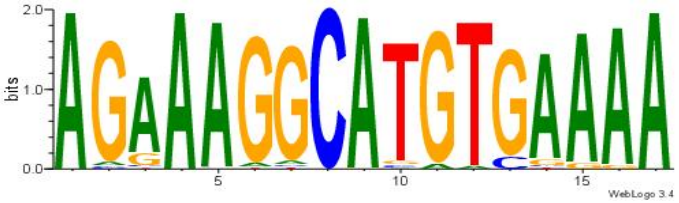

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

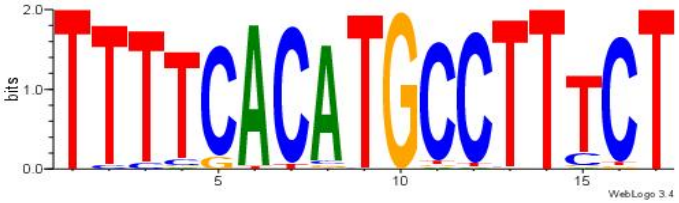

Dataset #: 1

Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0986023

Alignment:

AAGGAAAAGAAA

TAGCCAAGGRAA

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

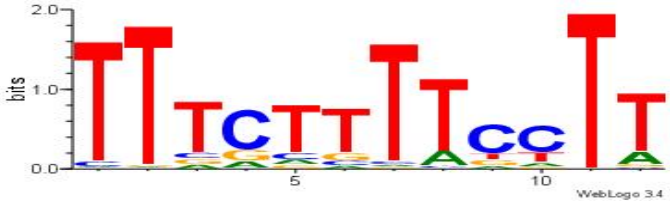

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.101716

Alignment:
AAATTAGGCCAATTAATAAC
----TAGCCAAGGRAA----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

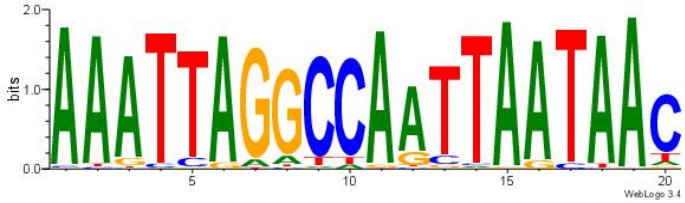

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.102485

Alignment:
CAAASCKGTCATAGGCCAT
------TTKCCTTGGCTA-

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

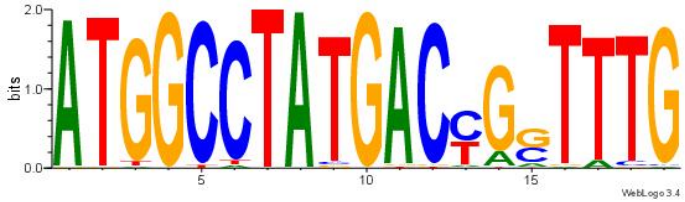

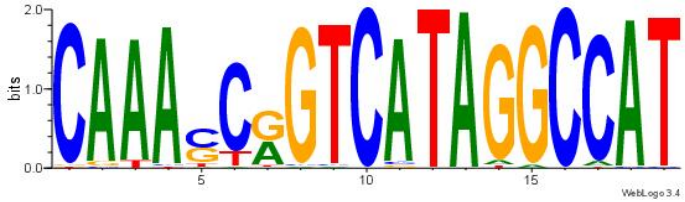

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.102571

Alignment:

```
AAATTACCCAGTCTCAGGTA
-----TTKCCTTGGCTA---
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

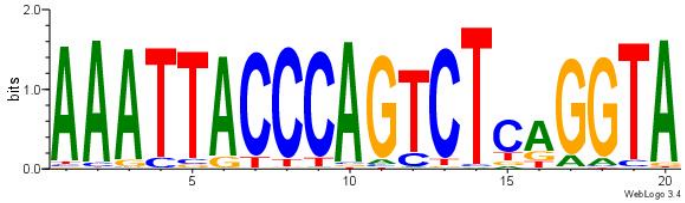

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

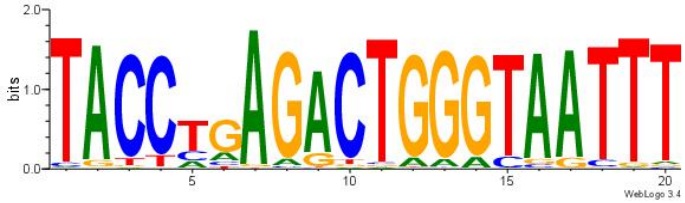

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.103615

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
-----TTKCCTTGGCTA---
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

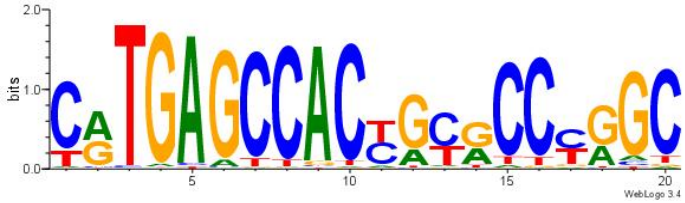

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

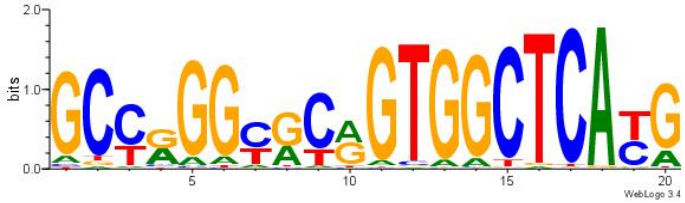

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.104675

Alignment:
CTTGCCCAAGGTCACACAGC
------TAGCCAAGGRAA--

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

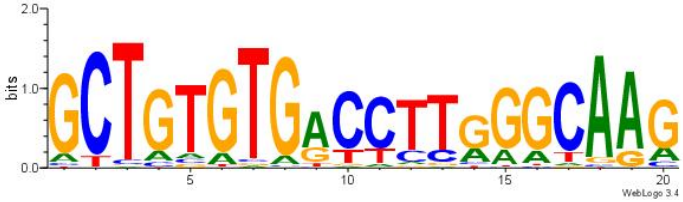

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

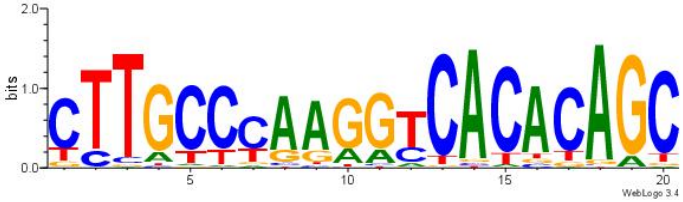

Dataset #: 1
Motif ID: 298
Motif name: Motif 298
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.107517

Alignment:
GGTCCTCCTCTAT
TTKCCTTGGCTA-

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

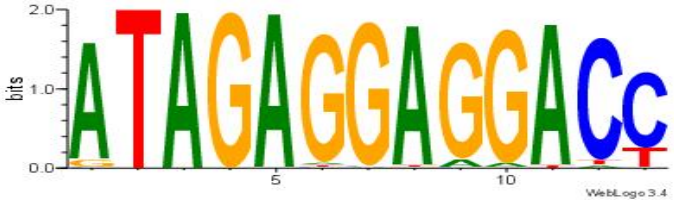

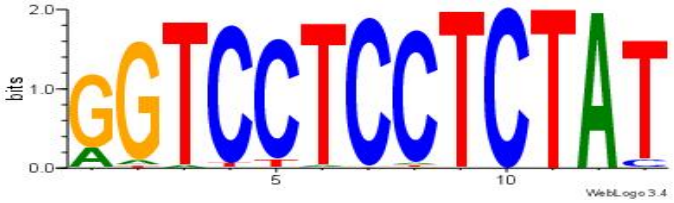

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.107906

Alignment:

```
GGATCCACTGGGTGAAGCCA
-----TTKCCTTGGCTA---
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

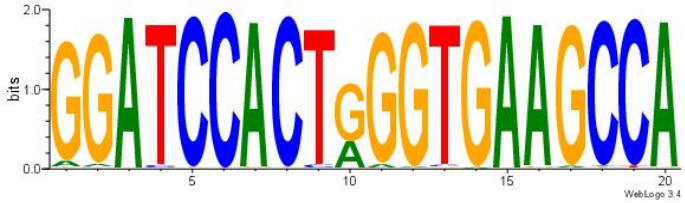

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

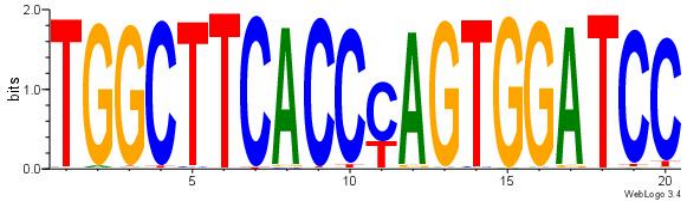

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.109503

Alignment:

```
TAATTTTATGTGTCAACTTG
----TTKCCTTGGCTA----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

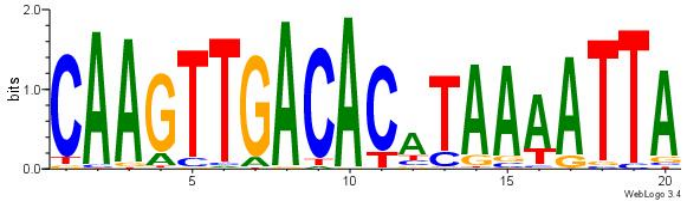

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

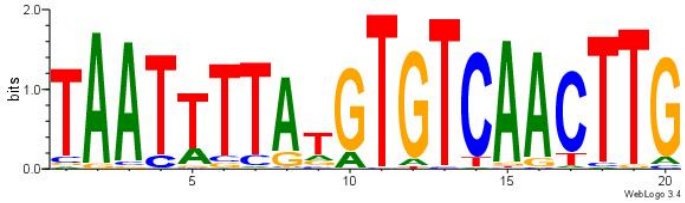

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.109704

Alignment:
CCACCACAGCTCAAGGAGGC
------TAGCCAAGGRAA--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

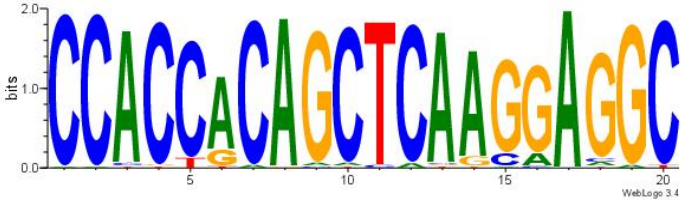

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

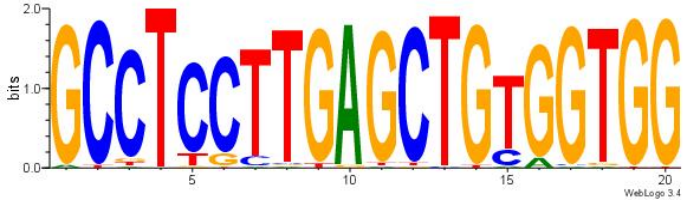

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.109851

Alignment:
CAGGTGGTKTTTGGTTACAT
-----TTKCCTTGGCTA---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

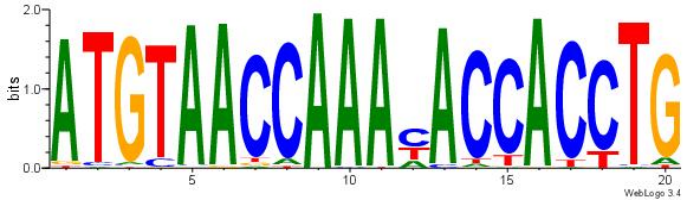

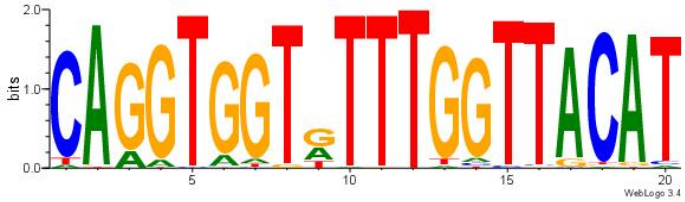

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.109954

Alignment:

```
AATCAACCCTGGYRATCAAT
-----TTKCCTTGGCTA---
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

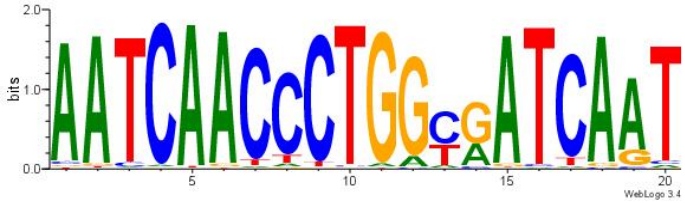

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

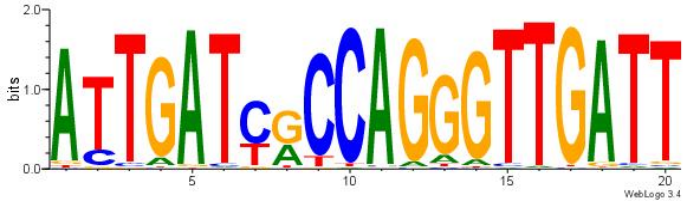

Dataset #:	1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.110221

Alignment:

```
MGAAGGGACTTGCCTTGT
----TTKCCTTGGCTA--
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

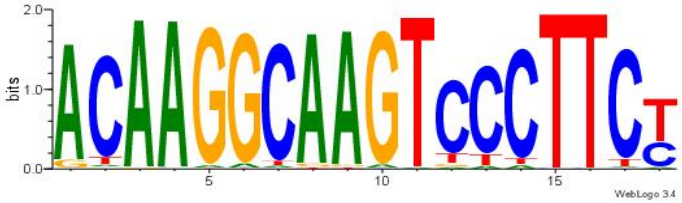

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

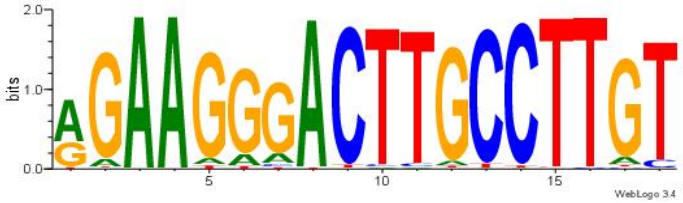

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.110506

Alignment:
TGTAKTCCCAGCTAC
--TTKCCTTGGCTA-

Original motif Consensus sequence: GTAGCTGGGAYTACA

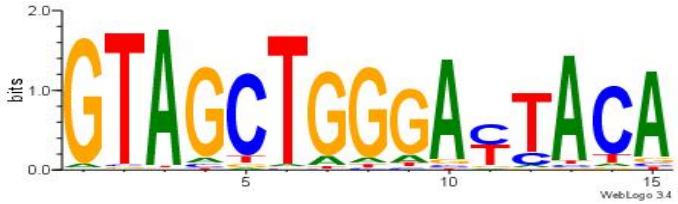

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

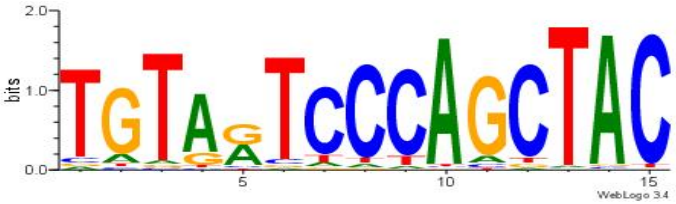

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.110926

Alignment:
GCTGGAGTGCAGTGGCRYGA
--TTKCCTTGGCTA------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

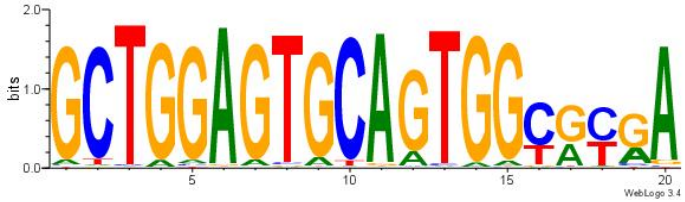

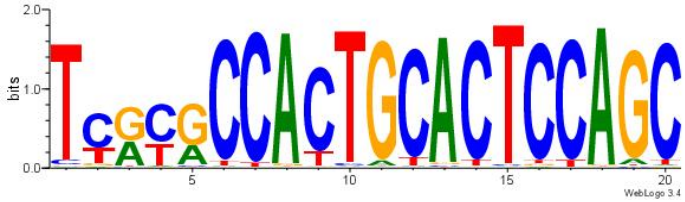

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.111489

Alignment:

```
GGMGCKGTGGCTC
-TTKCCTTGGCTA
```

Original motif Consensus sequence: GAGCCACYGCRCC

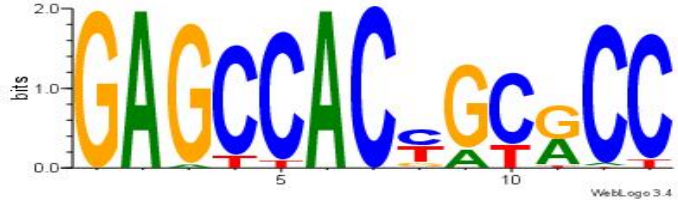

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.112109

Alignment:

```
AAGTTCTKGGKTACATGTGC
-TTKCCTTGGCTA-------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

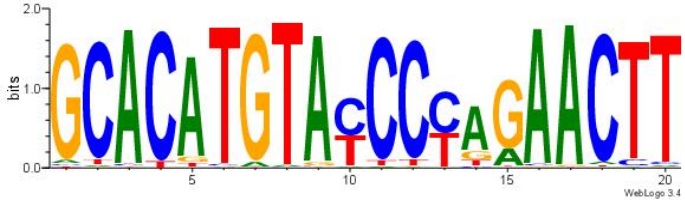

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

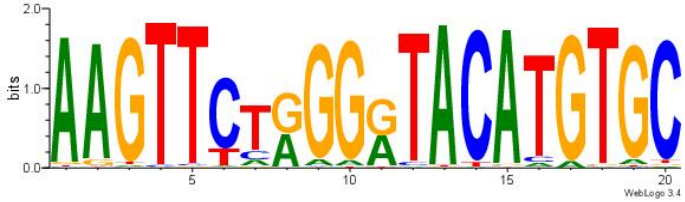

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.11287

Alignment:
ACAGGCTGTCCCAGGATTC
------TTKCCTTGGCTA-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

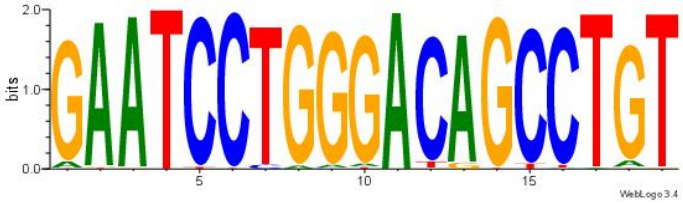

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

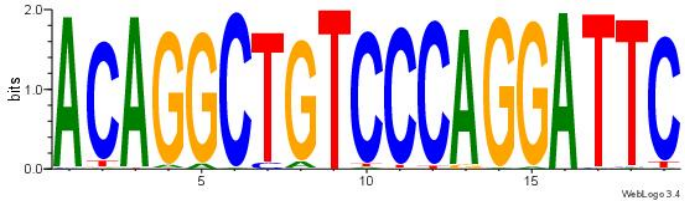

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.113888

Alignment:
CGCCCATCGTCTGGGATGT
------TTKCCTTGGCTA-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

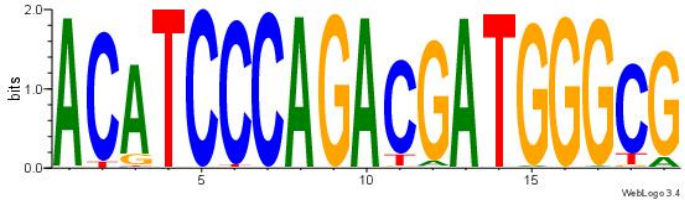

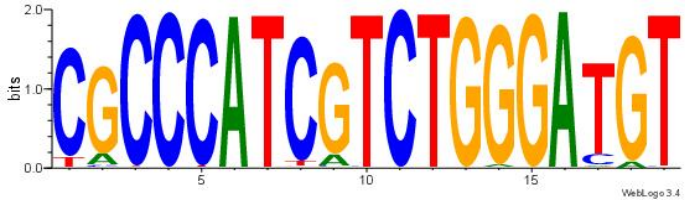

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.113947

Alignment:

```
ATGGACAYTTRGGTTGHTTC
TTKCCTTGGCTA--------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

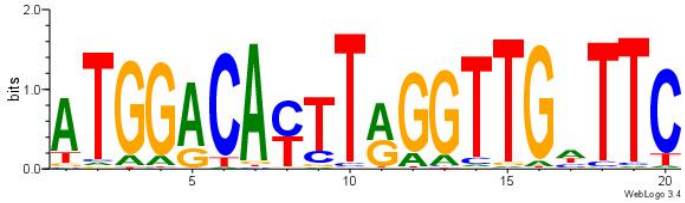

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

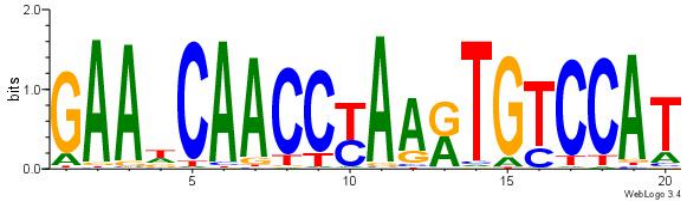

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.114147

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-TTKCCTTGGCTA-------
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

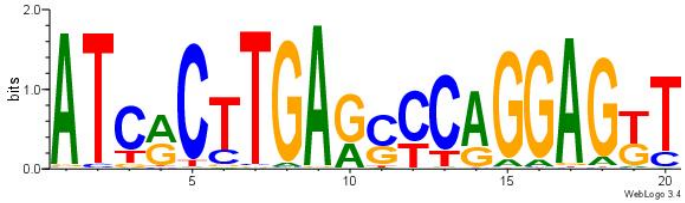

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

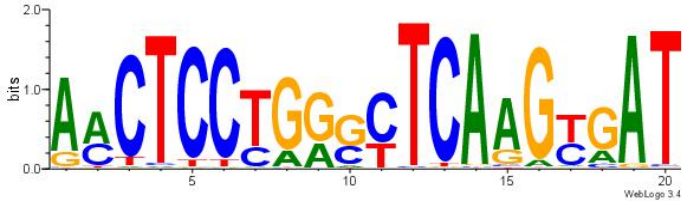

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.114562

Alignment:
ACGCCCACGGAGTCTC
TAGCCAAGGRAA----

Original motif Consensus sequence: ACGCCCACGGAGTCTC

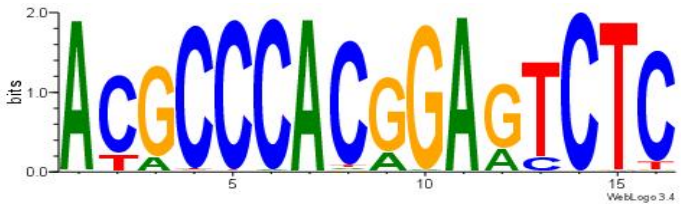

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

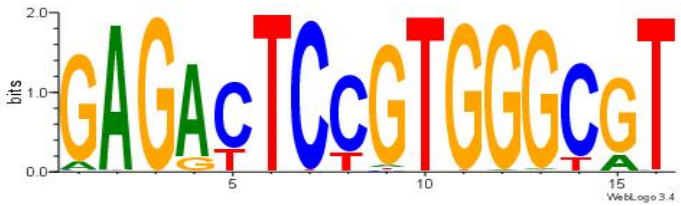

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.114586

Alignment:
CAAAGGCATAAGAATGAT
--TAGCCAAGGRAA----

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

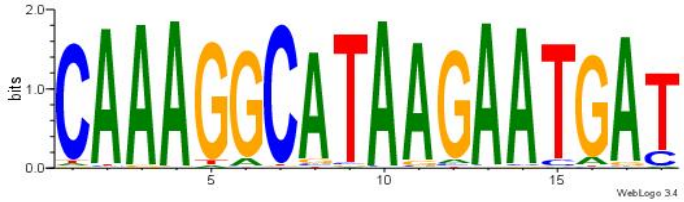

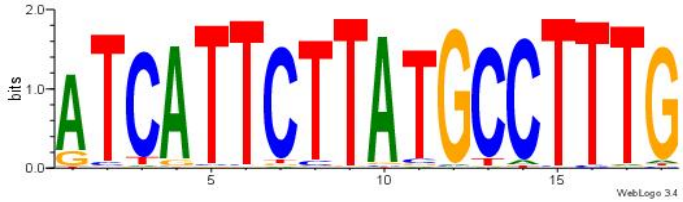

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.114851

Alignment:

```
CTGGGCAACAAGAG
-TAGCCAAGGRAA-
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

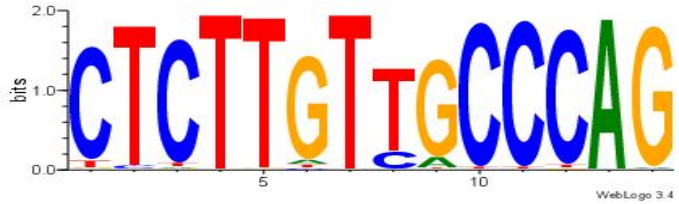

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

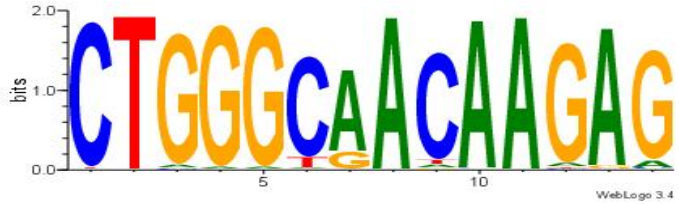

Dataset #:	1
Motif ID:	2

Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.114971

Alignment:

```
ATTAGCYRGGCRTGGTGGC
--TAGCCAAGGRAA-----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

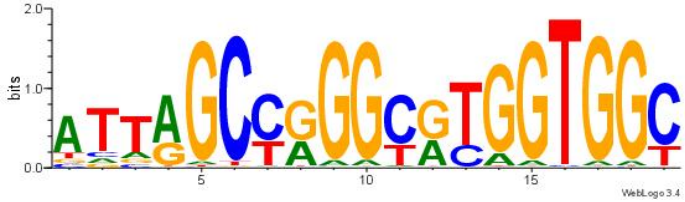

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

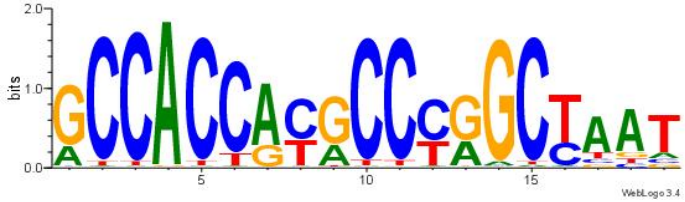

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.115217

Alignment:
TTTTATAGGATTTGGG
TTKCCTTGGCTA----

Original motif Consensus sequence: CCCAAATCCTATAAAA

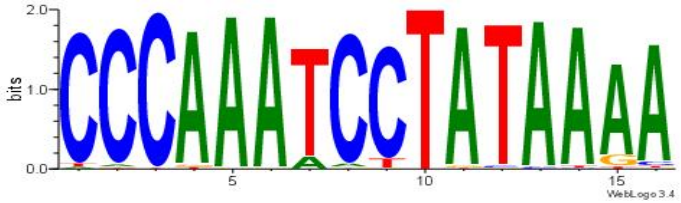

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

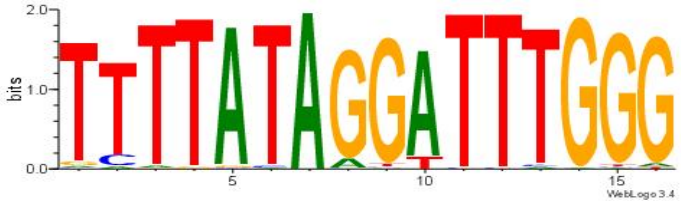

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.115349

Alignment:
TWTACCTATGTAACAAACCT
------TAGCCAAGGRAA--

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

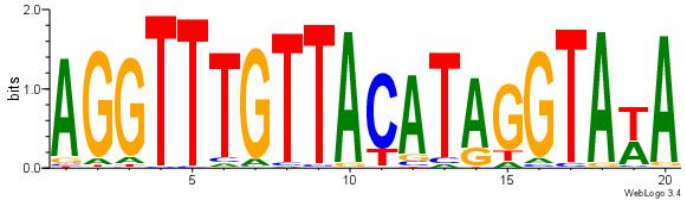

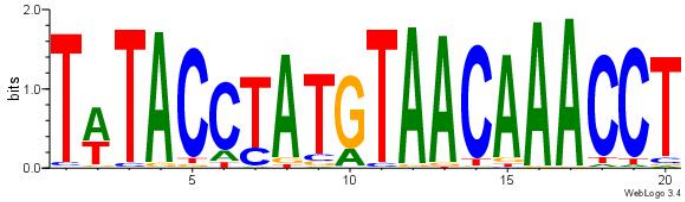

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.115393

Alignment:

```
GAGAACACATGGACA
---TAGCCAAGGRAA
```

Original motif Consensus sequence: GAGAACACATGGACA

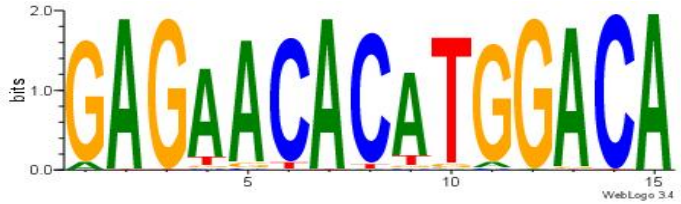

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

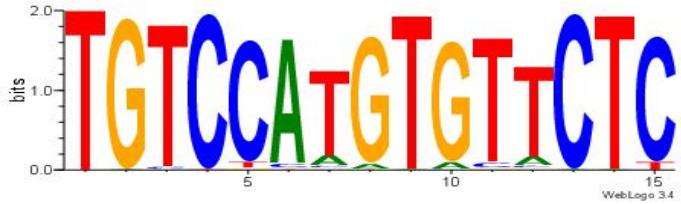

Dataset #:	1
Motif ID:	53

Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.115553

Alignment:

```
CTTGGGTGGTCGATGGGAC
-TTKCCTTGGCTA------
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

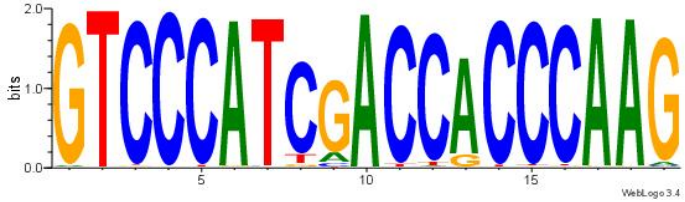

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

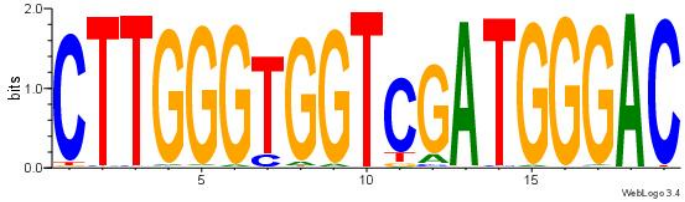

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.115649

Alignment:
CTTGCGCTTCCCRRGTGA
----TTKCCTTGGCTA--

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

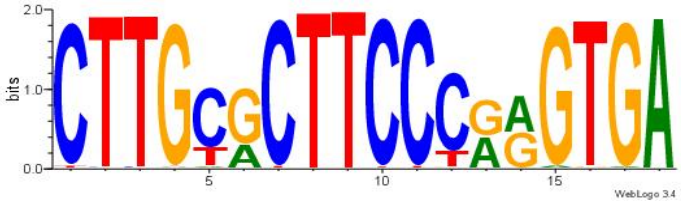

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

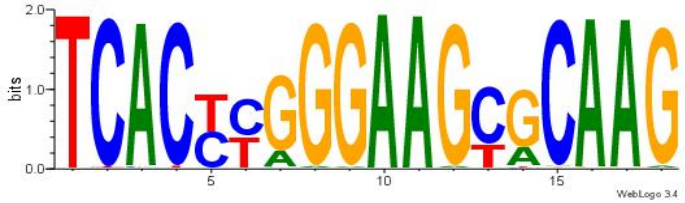

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.11581

Alignment:
GCTGGCCCKGGTGCTAAGC
-----TAGCCAAGGRAA--

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

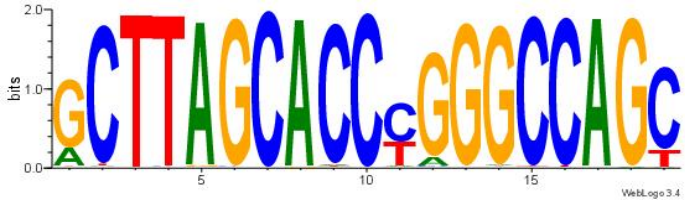

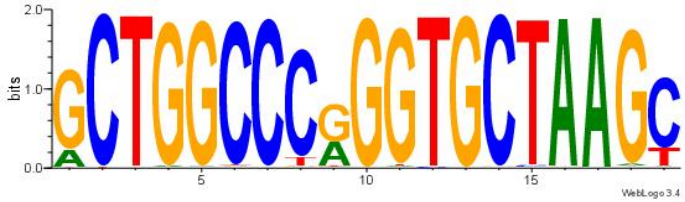

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.116314

Alignment:

```
CTGGCCCTCAATGGTTAAAC
-----TTKCCTTGGCTA---
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

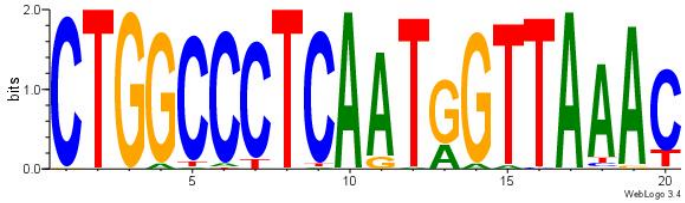

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

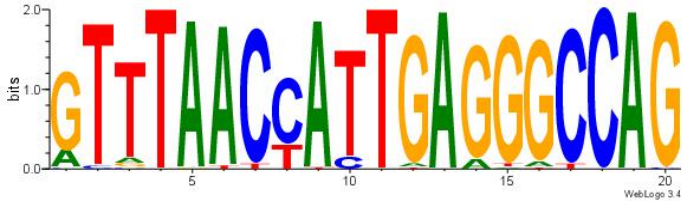

Dataset #: 1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.116343

Alignment:

```
AAAGAGAGTCAGCGAAG
-----TAGCCAAGGRAA
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

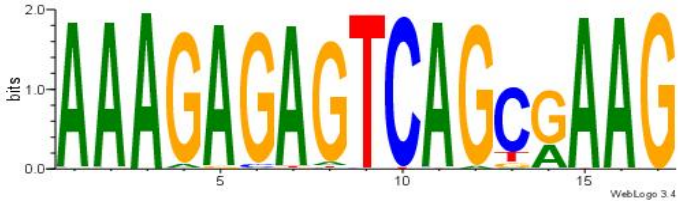

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

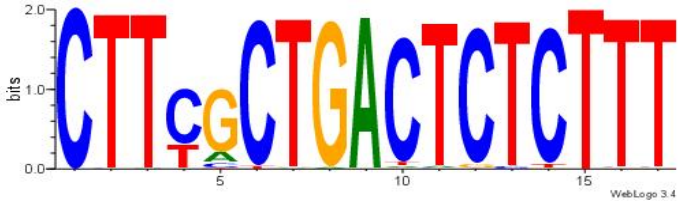

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.116511

Alignment:
TYTGTCMTTTTGTGACTGGC
--TTKCCTTGGCTA------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

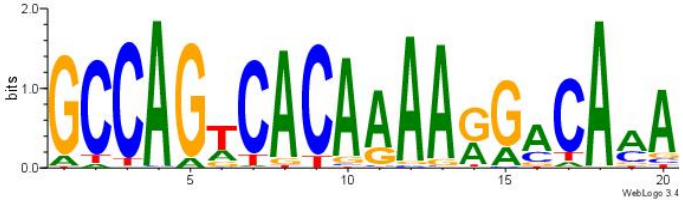

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

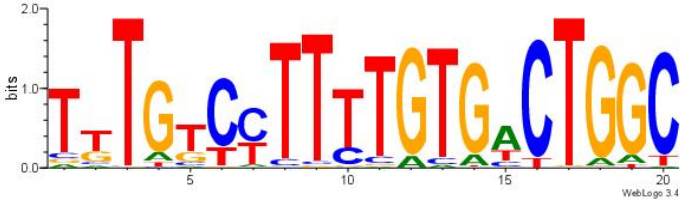

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.117044

Alignment:
CAGACTGCCTCCTCAA
----TTKCCTTGGCTA

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

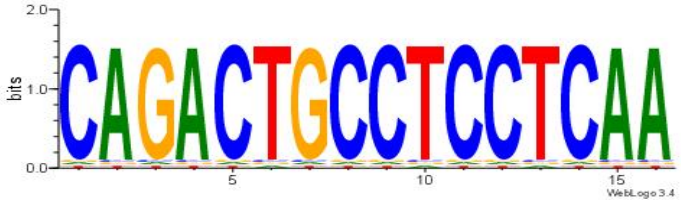

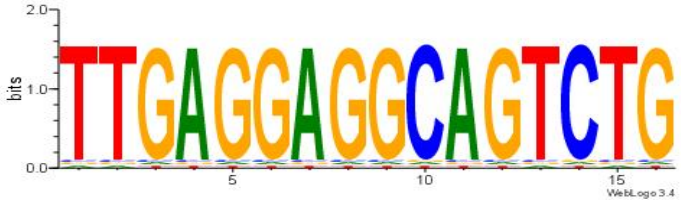

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.117212

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--TAGCCAAGGRAA------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

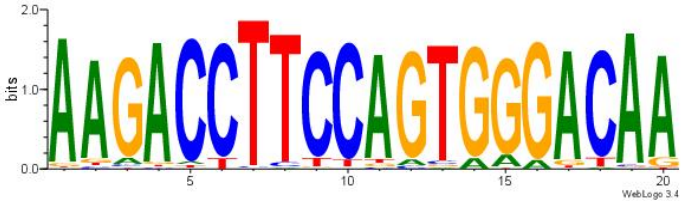

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

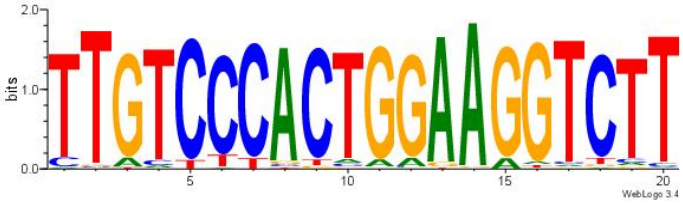

Dataset #: 1 Motif ID: 238 Motif name: Motif 238

Original motif Consensus sequence: ACATGGGCG

Reverse complement motif Consensus sequence: CGCCCATGT

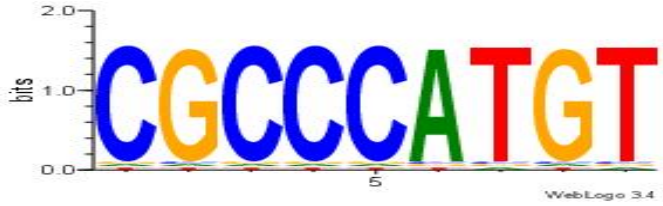

Best Matches for Motif ID 238 (Highest to Lowest)

Dataset #:	1
Motif ID:	353
Motif name:	Motif 353
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0421539

Alignment:

```
CACATGGAAGC
-ACATGGGCG-
```

Original motif Consensus sequence: CACATGGAAGC

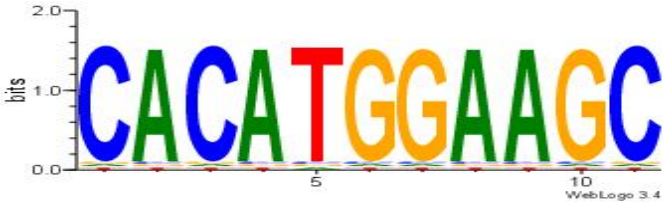

Reverse complement motif Consensus sequence: GCTTCCATGTG

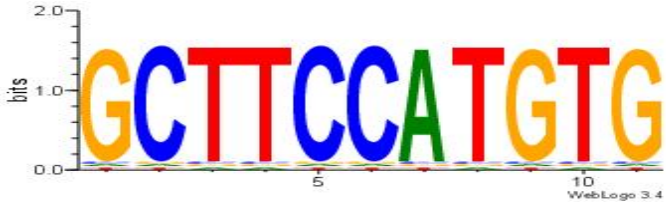

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0421539

Alignment:

```
TACAGGTGCGT
-ACATGGGCG-
```

Original motif Consensus sequence: ACGCACCTGTA

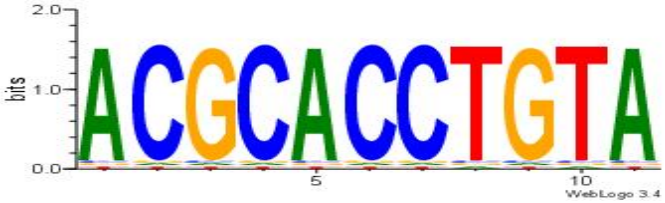

Reverse complement motif Consensus sequence: TACAGGTGCGT

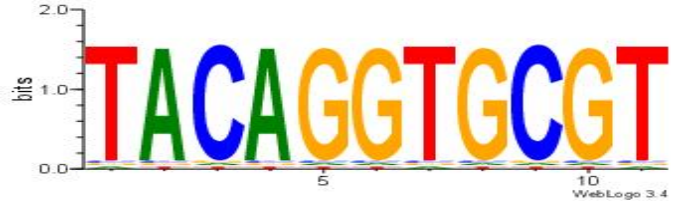

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9

Similarity score: 0.0532025

Alignment:
TCCAAATGGGAGAAATTGGC
---ACATGGGCG--------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

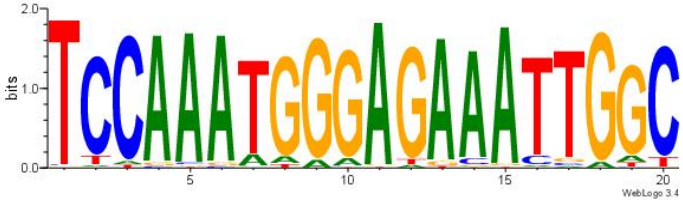

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

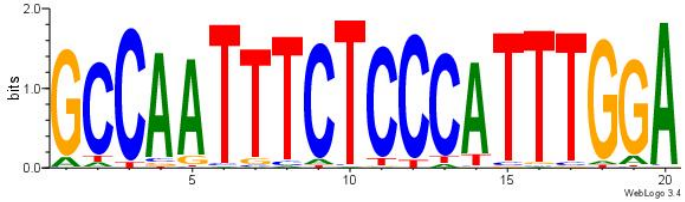

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 9
Similarity score: 0.0536448

Alignment:
CGCCCATCGTCTGGGATGT
CGCCCATGT----------

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

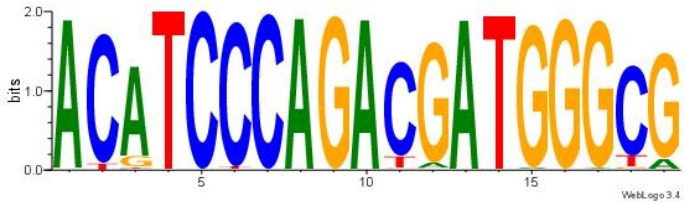

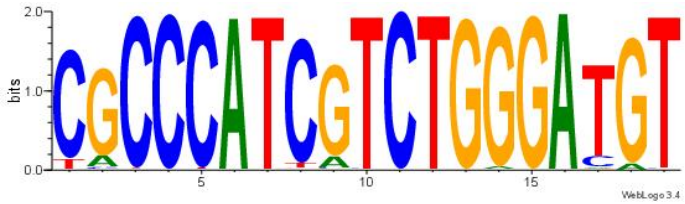

Dataset #:	1
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0544118

Alignment:

```
CCATGTGCGG
ACATGGGCG-
```

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Dataset #:	1
Motif ID:	141

Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0545198

Alignment:

```
AAGGTCCATGTAG
--CGCCCATGT--
```

Original motif Consensus sequence: AAGGTCCATGTAG

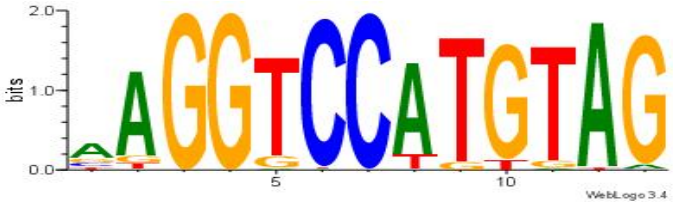

Reverse complement motif Consensus sequence: CTACATGGACCTT

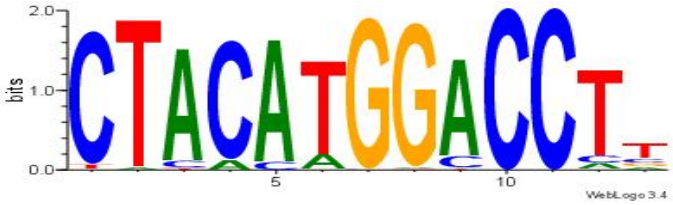

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0549617

Alignment:
GACATGAGCTGGCGCTTG
-ACATGGGCG--------

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

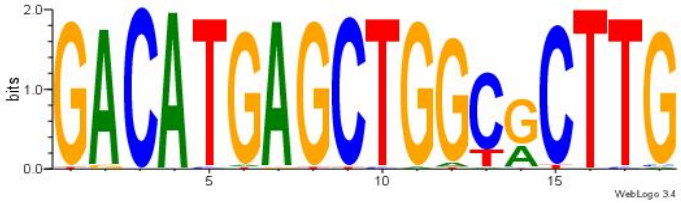

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

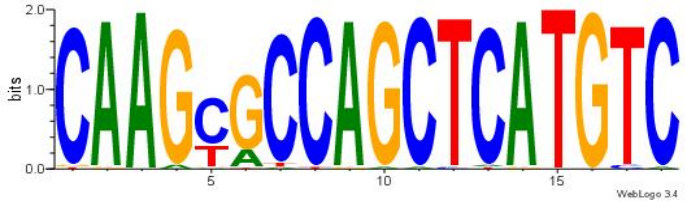

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0551148

Alignment:
TGTCCATGTGTTCTC
CGCCCATGT------

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

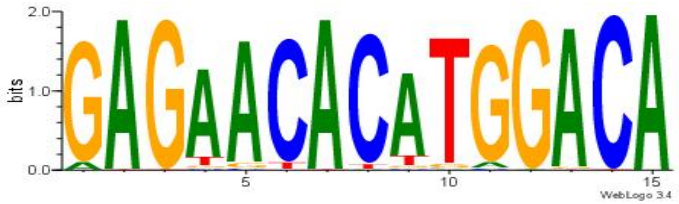

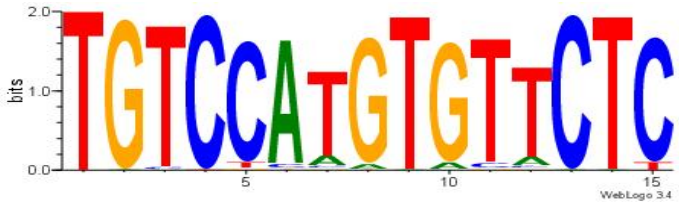

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0558418

Alignment:

```
GCACAGGAGCGG
-ACATGGGCG--
```

Original motif Consensus sequence: CCGCTCCTGTGC

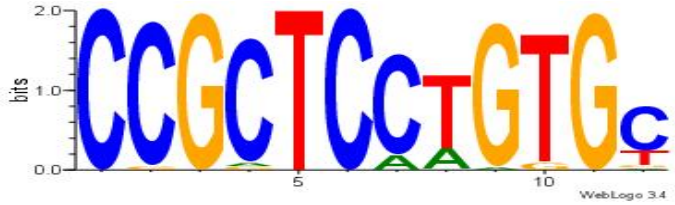

Reverse complement motif Consensus sequence: GCACAGGAGCGG

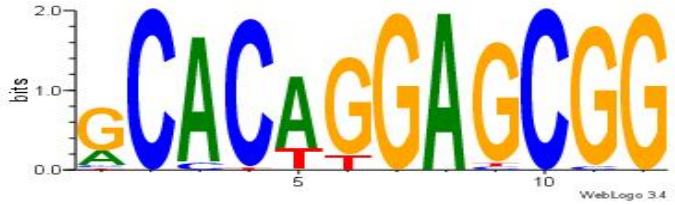

Dataset #:	1
Motif ID:	104

Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0610149

Alignment:

```
CAACATGGATGRARCTGGAG
--ACATGGGCG---------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

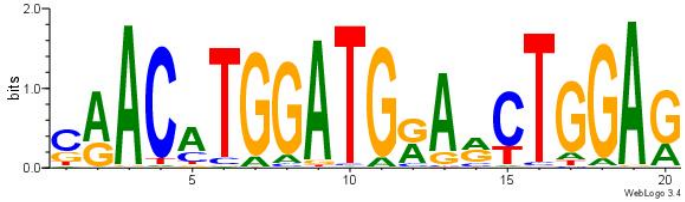

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

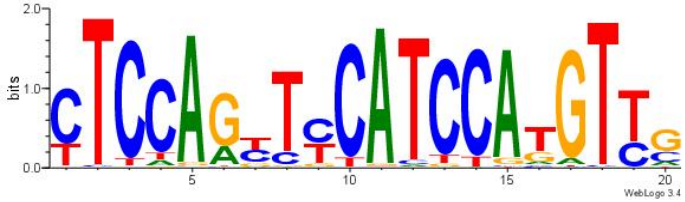

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0624234

Alignment:
GAGACTCCGTGGGCGT
-ACATGGGCG------

Original motif Consensus sequence: ACGCCCACGGAGTCTC

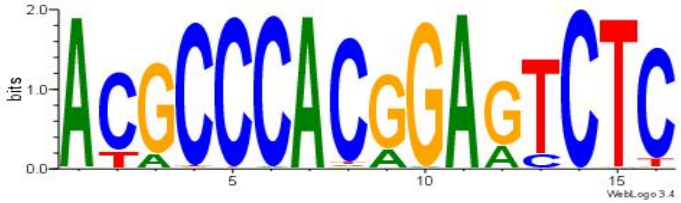

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

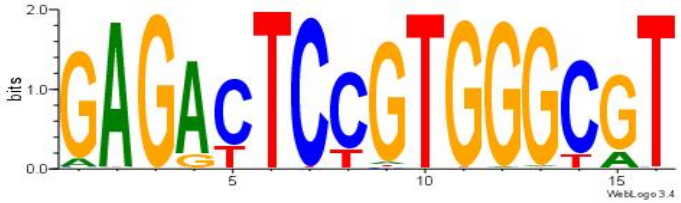

Dataset #:	1
Motif ID:	97
Motif name:	Motif 97
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.063714

Alignment:
AAGATGGCCGAAT
-ACATGGGCG---

Original motif Consensus sequence: AAGATGGCCGAAT

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

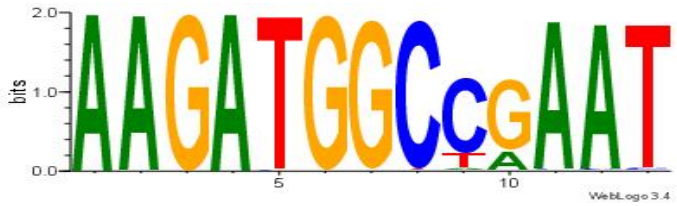

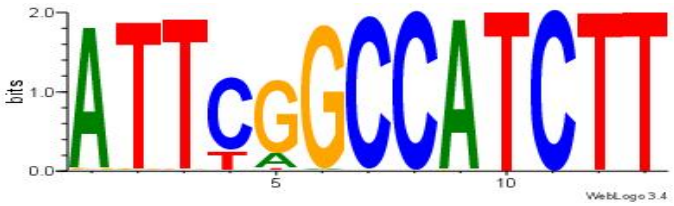

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0695986

Alignment:

```
GCTTAGCACCYGGGCCAGC
-------ACATGGGCG---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

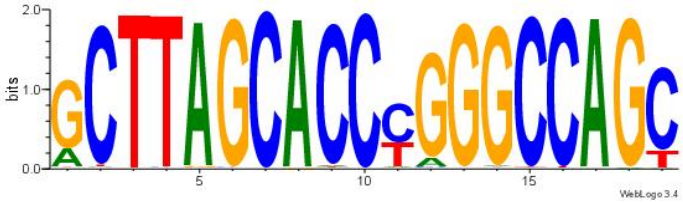

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

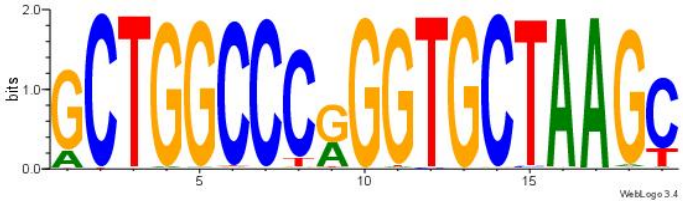

Dataset #: 1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0702249

Alignment:

```
AGCCCCGGTTCCCGCYCGC
----------CGCCCATGT
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

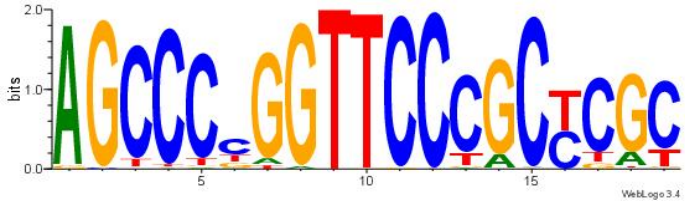

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

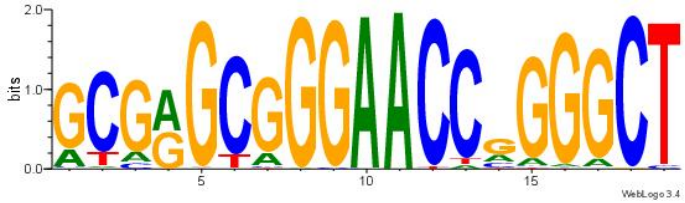

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9

Similarity score: 0.0712973

Alignment:
AAGGGACATTKGAG
-----ACATGGGCG

Original motif Consensus sequence: AAGGGACATTKGAG

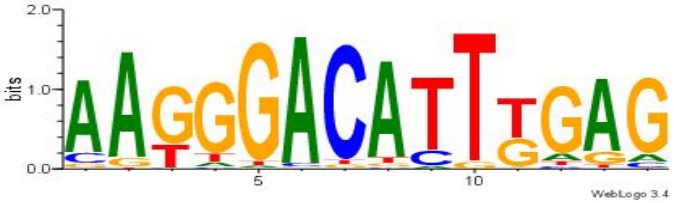

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

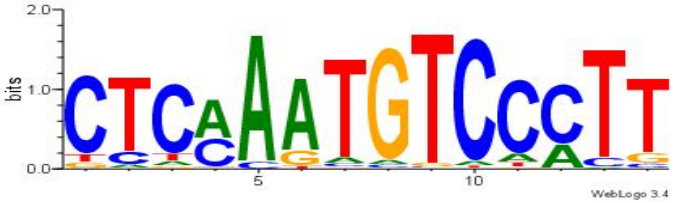

Dataset #: 1
Motif ID: 88
Motif name: Motif 88
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0728959

Alignment:
TGCAGCCCCGGT
---CGCCCATGT

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

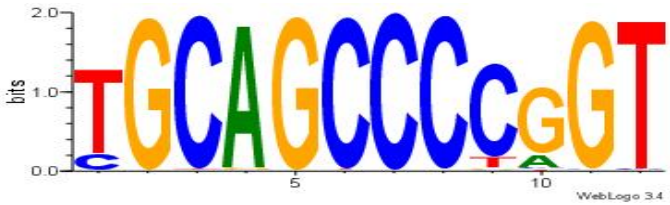

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0732817

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-------ACATGGGCG----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

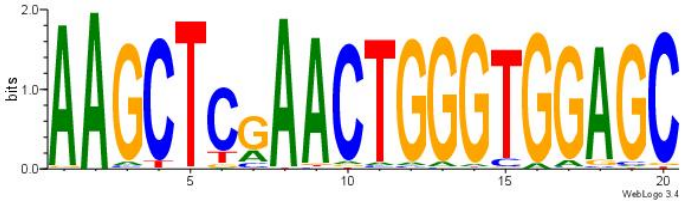

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

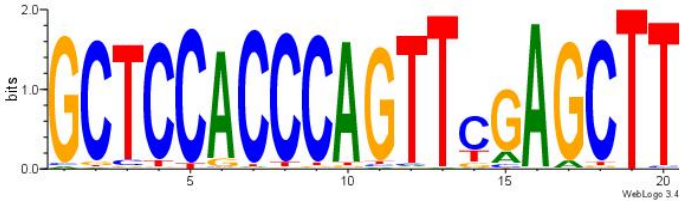

Dataset #: 1

Motif ID:	265
Motif name:	Motif 265
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0737646

Alignment:

```
GCGCATGCGCA
--ACATGGGCG
```

Original motif Consensus sequence: GCGCATGCGCA

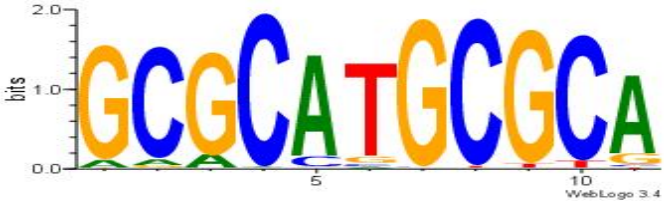

Reverse complement motif Consensus sequence: TGCGCATGCGC

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0742397

Alignment:
AAGACGGGTGATTTCTG
-------ACATGGGCG-

Original motif Consensus sequence: CAGAAATCACCCGTCTT

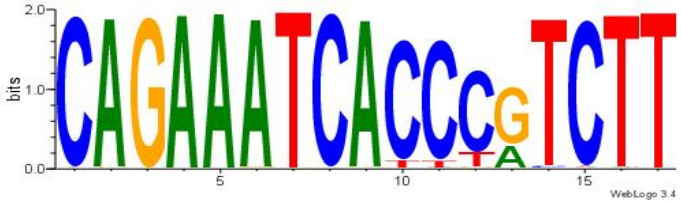

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

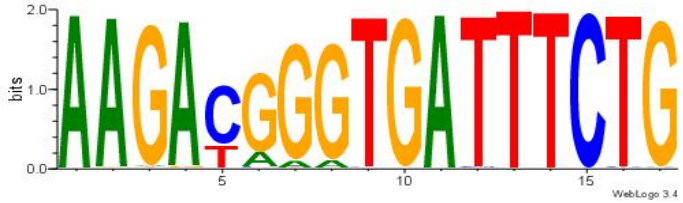

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0743752

Alignment:
GGGRSCACAGGAGCD
ACATGGGCG------

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

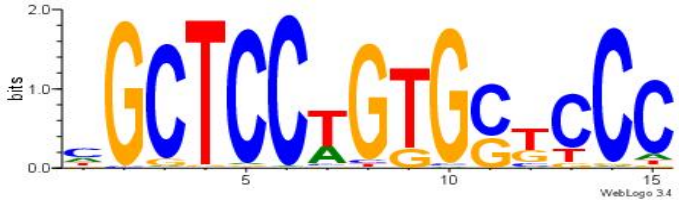

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0758845

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--------CGCCCATGT---
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

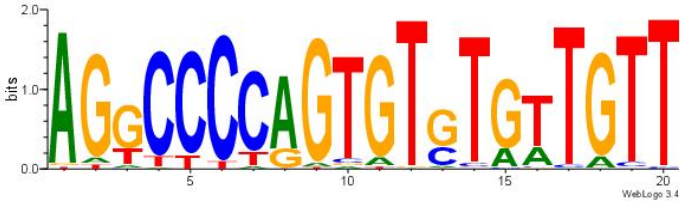

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

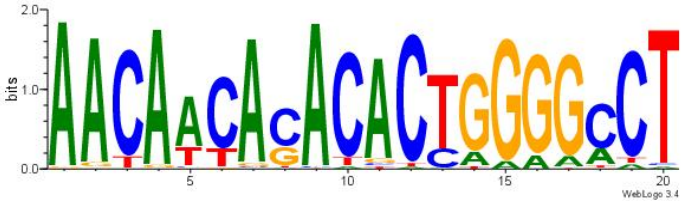

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0765792

Alignment:

```
AGTTCCGGGTGGGCGTGGG
------ACATGGGCG----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

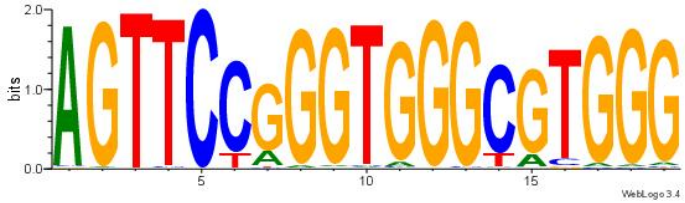

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

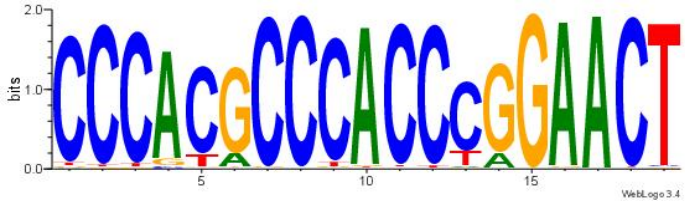

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0773172

Alignment:
CCTTTGACTCCATGTC
------CGCCCATGT-

Original motif Consensus sequence: GACATGGAGTCAAAGG

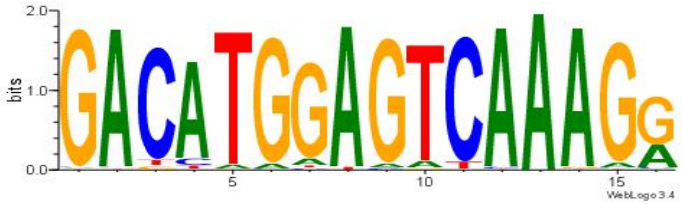

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

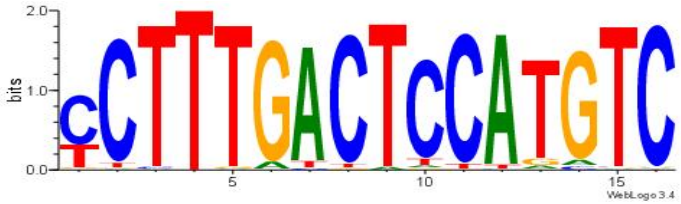

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 9
Similarity score: 0.077381

Alignment:
TAAGTGGGAGCTAARC
-ACATGGGCG------

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

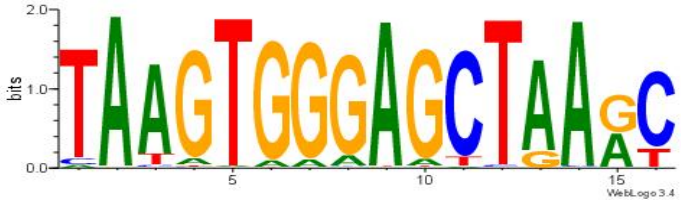

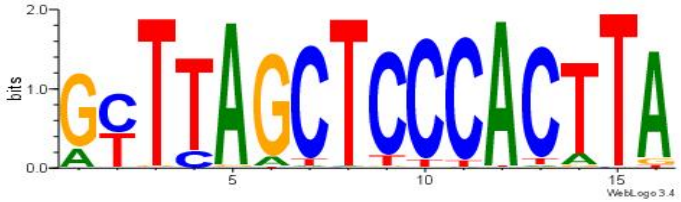

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	9
Similarity score:	0.0777177

Alignment:

```
GKCTGTACCCCCATTGTAT
--------CGCCCATGT--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

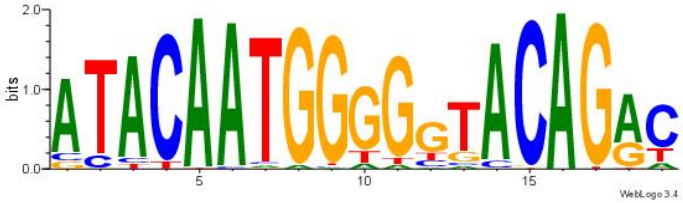

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

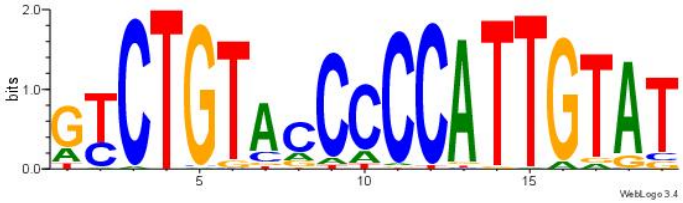

Dataset #: 1

Motif ID:	9
Motif name:	Motif 9
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0781504

Alignment:

```
CACATGGAGC
-ACATGGGCG
```

Original motif Consensus sequence: CACATGGAGC

Reverse complement motif Consensus sequence: GCTCCATGTG

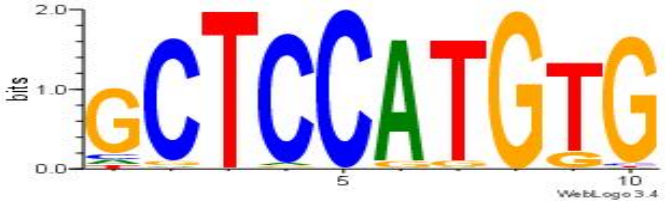

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0781823

Alignment:
GGTTCATCTCACTAGGGAGT
----------ACATGGGCG-

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

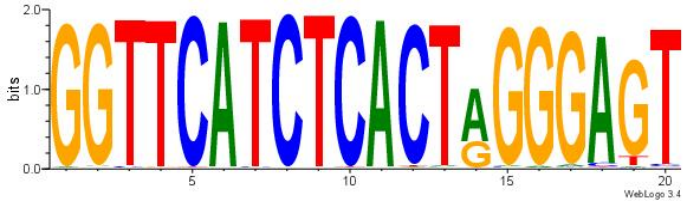

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

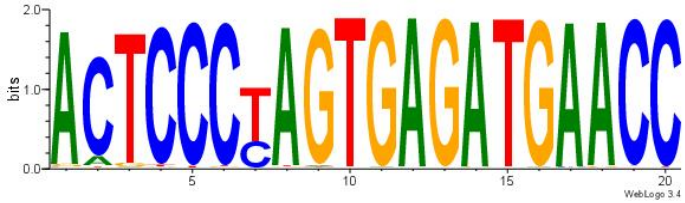

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0784481

Alignment:
CAAGATGGCGGC
--ACATGGGCG-

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

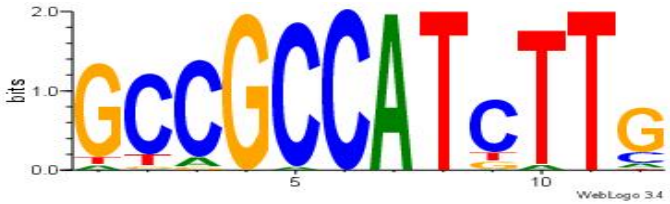

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0787823

Alignment:

```
CCTCCGTGGGCTCC
---ACATGGGCG--
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

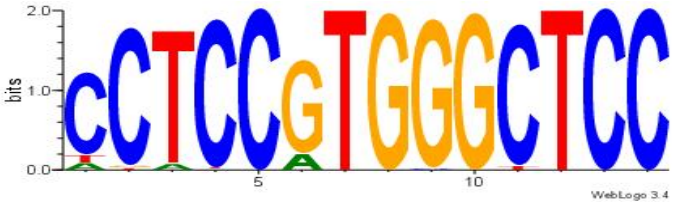

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

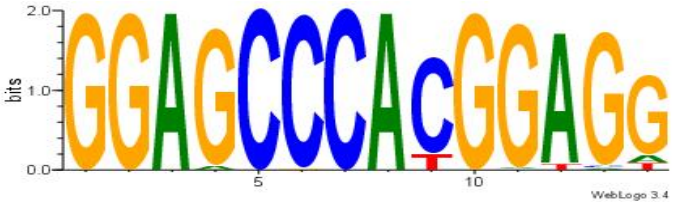

Dataset #:	1
Motif ID:	232

Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0788305

Alignment:

```
AGTTGTAATTGGGAGACTT
------ACATGGGCG----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

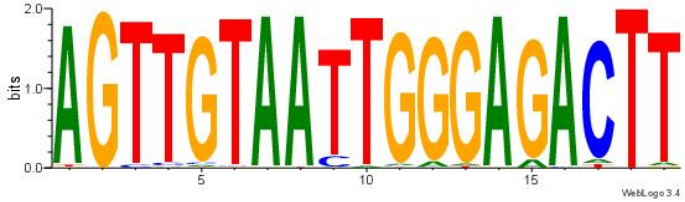

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

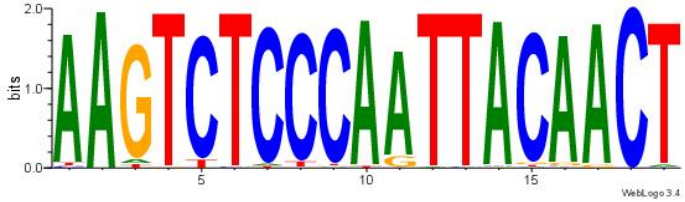

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0793354

Alignment:
CAAASCKGTCATAGGCCAT
--------ACATGGGCG--

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

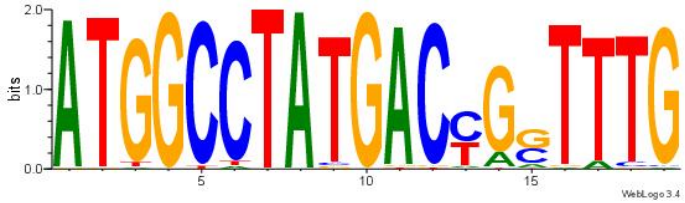

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

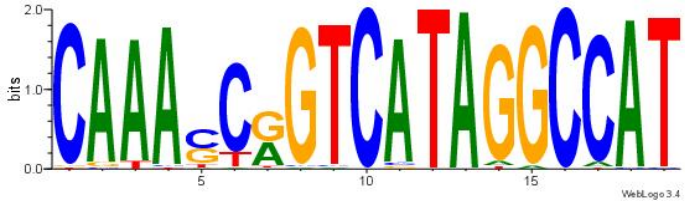

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9
Similarity score:	0.0793886

Alignment:
AGCTCCCAGCGTGAGCGACG
--------ACATGGGCG---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

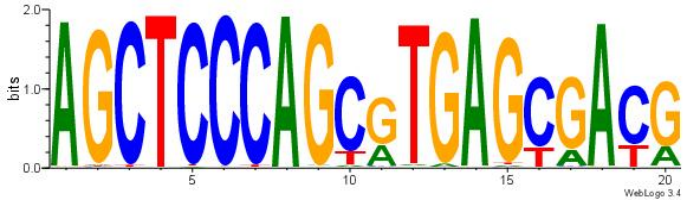

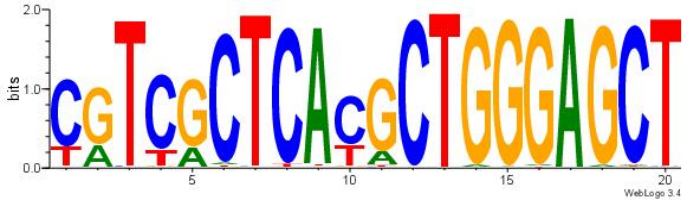

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0794212

Alignment:

```
AGGTTTGTTACATAGGTAWA
---------ACATGGGCG--
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

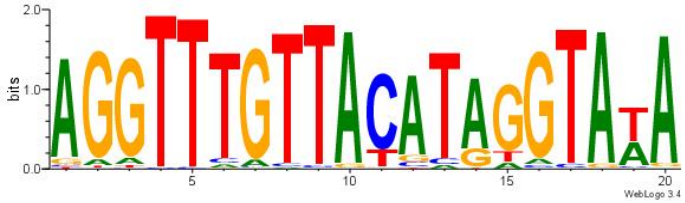

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

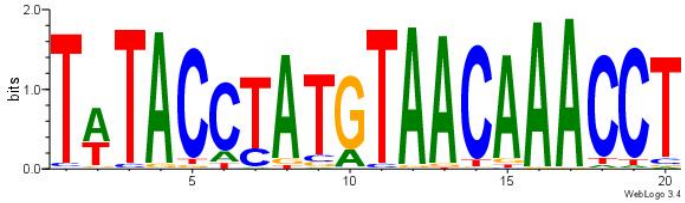

Dataset #:	1

Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0799855

Alignment:

```
GCTCTCAGGTCCA
-CGCCCATGT---
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

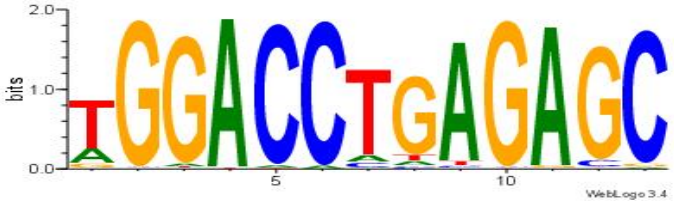

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0825731

Alignment:
CCCACACCCTTATTA
----CGCCCATGT--

Original motif Consensus sequence: CCCACACCCTTATTA

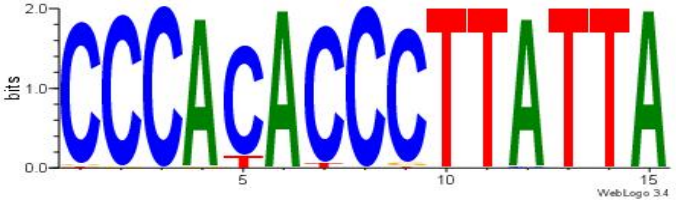

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

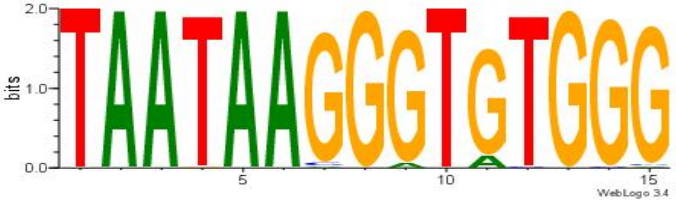

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0826062

Alignment:
GGGGTGATGGACG
----ACATGGGCG

Original motif Consensus sequence: CGTCCATCACCCC

Reverse complement motif Consensus sequence: GGGGTGATGGACG

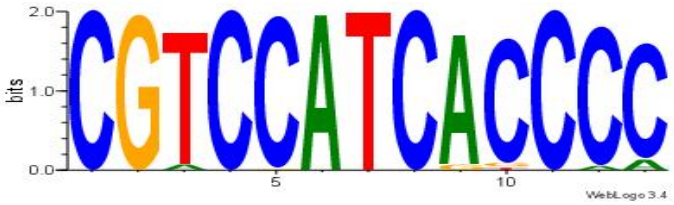

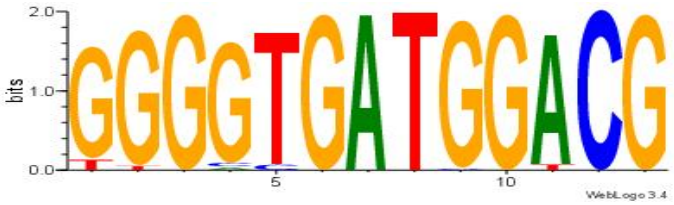

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.083101

Alignment:

```
TTTGGTGCACCCATCA
-------CGCCCATGT
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

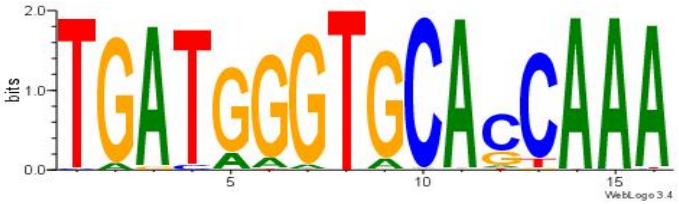

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

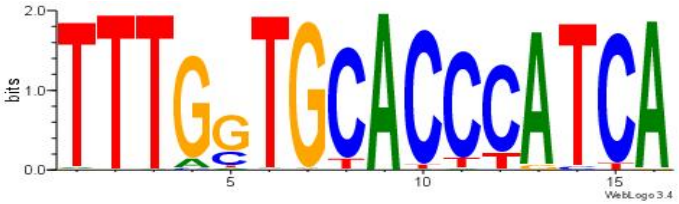

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.085211

Alignment:

```
GGCAATGCCTCGCCCTGCTT
----------CGCCCATGT-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

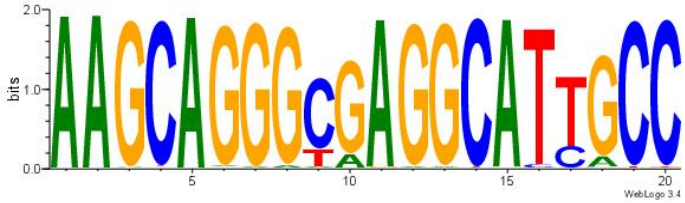

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

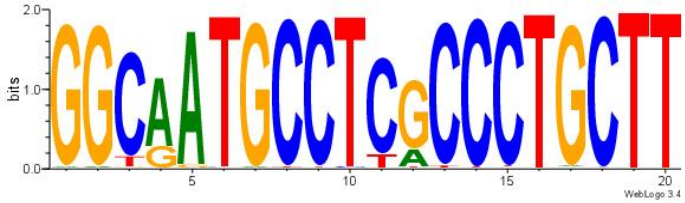

Dataset #:	1
Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9

Similarity score: 0.0857708

Alignment:
TACTCMGGAGGCT
---ACATGGGCG-

Original motif Consensus sequence: AGCCTCCYGAGTA

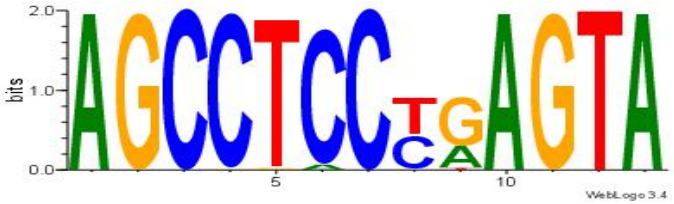

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

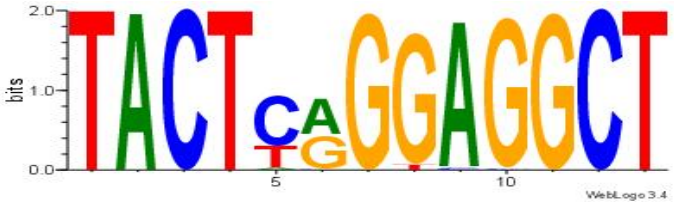

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 9
Similarity score: 0.0864609

Alignment:
TTMGTCCCAGAGGGGCACC
--------ACATGGGCG--

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

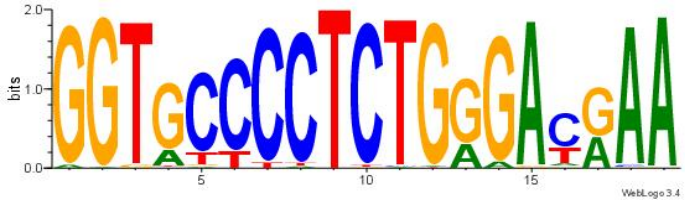

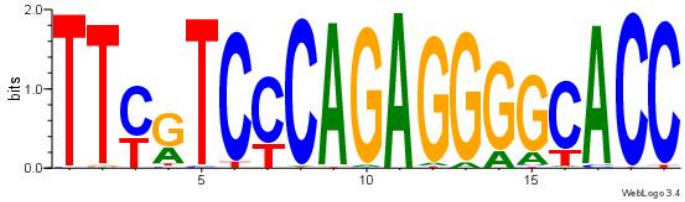

Dataset #:	1
Motif ID:	180
Motif name:	Motif 180
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0870336

Alignment:

```
TGCGCATGCGCA
---ACATGGGCG
```

Original motif Consensus sequence: TGCGCATGCGCA

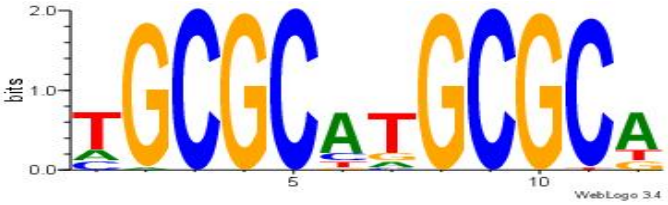

Reverse complement motif Consensus sequence: TGCGCATGCGCA

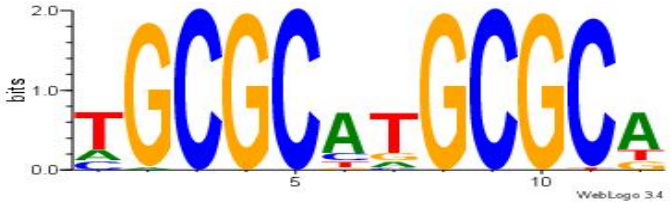

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0871954

Alignment:

```
GCACATGTAYCCYAGAACTT
--ACATGGGCG---------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

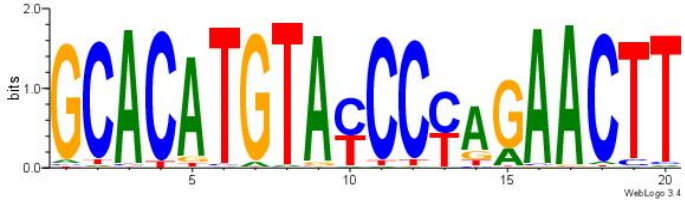

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

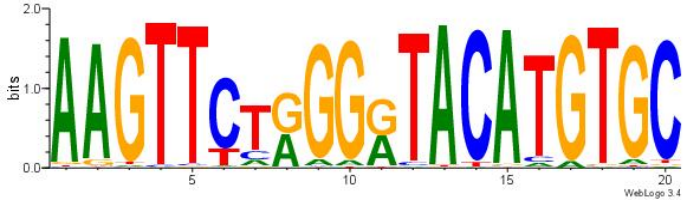

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0872633

Alignment:
TCKMGCCACTGCACTCCAGC
---CGCCCATGT--------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

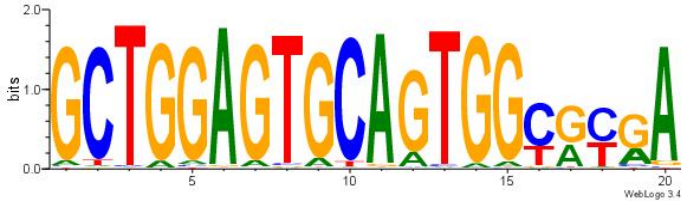

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

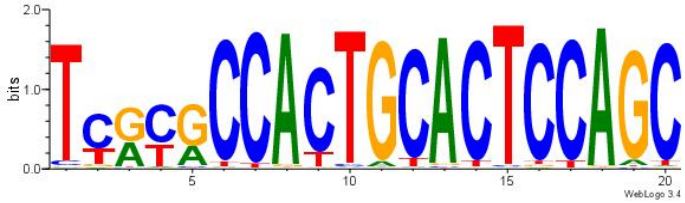

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0876807

Alignment:
CCGTGCGCGAGCCG
ACATGGGCG-----

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

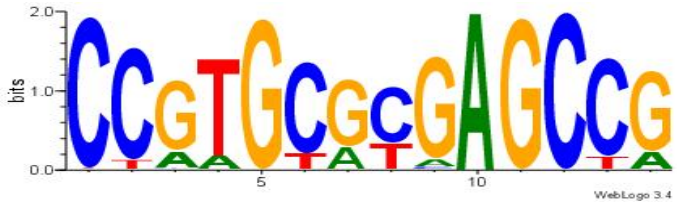

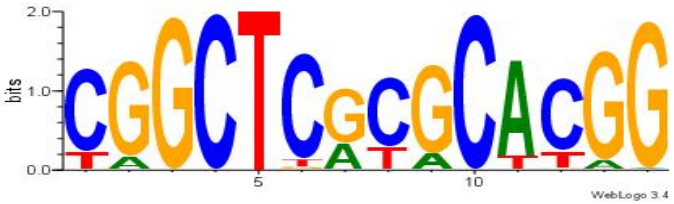

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0884876

Alignment:

```
CATTTGGGAGCCCATTGA
--------CGCCCATGT-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

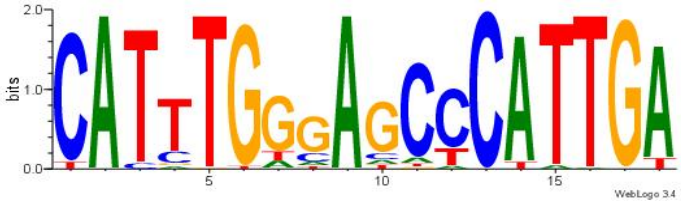

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

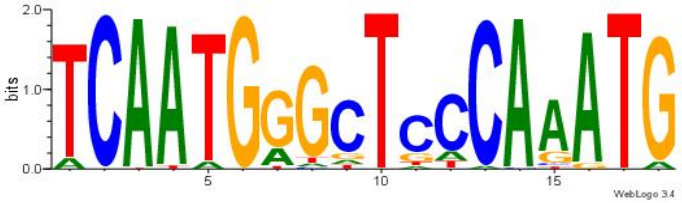

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0898456

Alignment:

```
AGACAGTGGGYGCAGGHCA
---ACATGGGCG-------
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

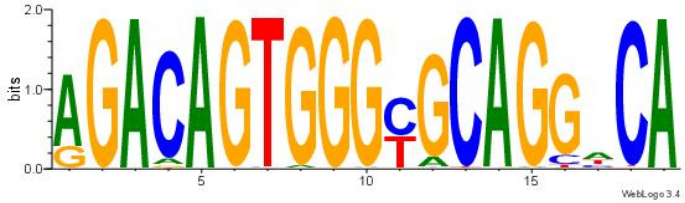

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

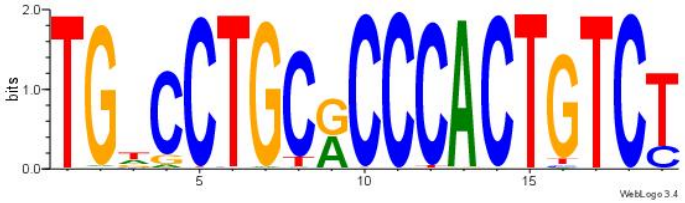

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9

Similarity score: 0.0899778

Alignment:
AAAMAMMKMATGTTCTCACT
----CGCCCATGT-------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

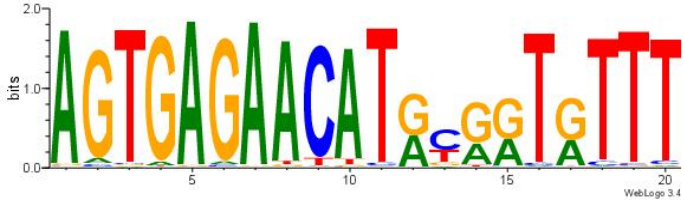

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

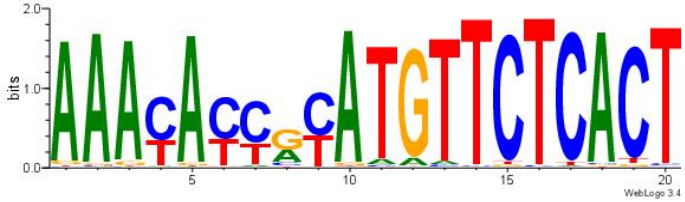

Dataset #: 1
Motif ID: 153
Motif name: Motif 153
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 9
Similarity score: 0.0900008

Alignment:
CACTAGGGAGTGCC
-ACATGGGCG----

Original motif Consensus sequence: CACTAGGGAGTGCC

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

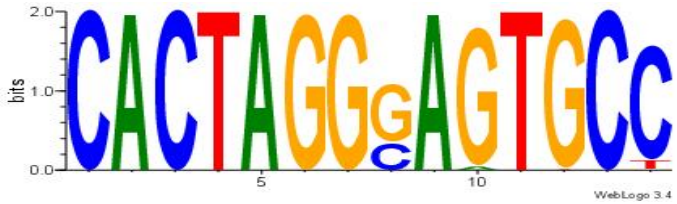

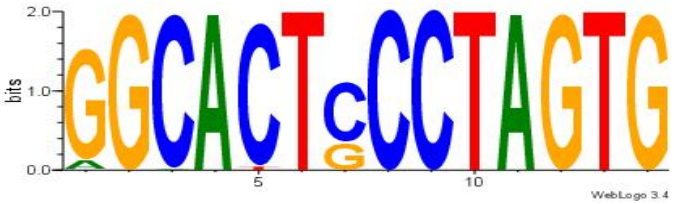

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0908206

Alignment:

```
AGGAGCGCCTCTGC
-----CGCCCATGT
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

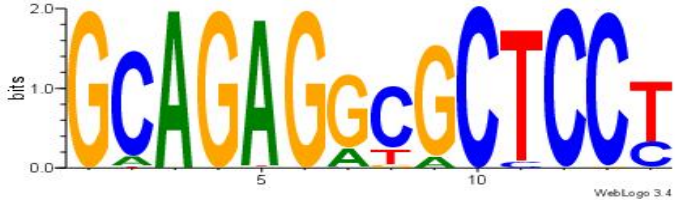

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

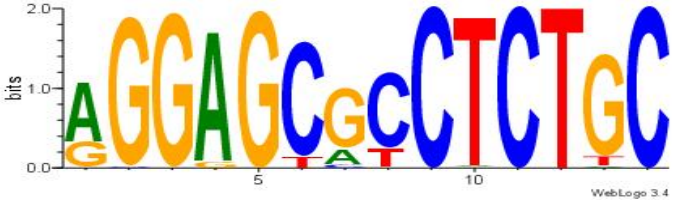

Dataset #:	1
Motif ID:	170

Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	9
Similarity score:	0.0915737

Alignment:

```
ATTGATMKCCAGGGTTGATT
------CGCCCATGT-----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

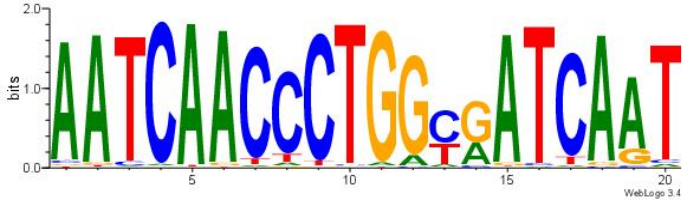

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

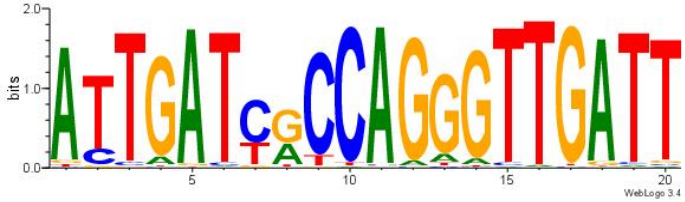

Dataset #: 1 Motif ID: 239 Motif name: Motif 239

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Best Matches for Motif ID 239 (Highest to Lowest)

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.0847179

Alignment:
MTCCTCCAGACCCCAGAATG
AGCCTCCAGAACTGT-----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

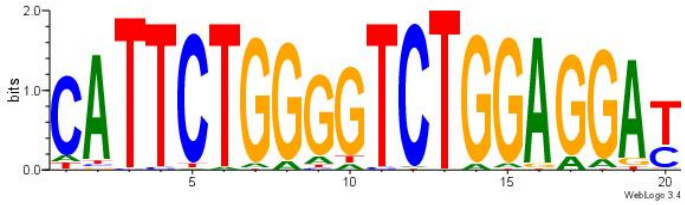

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

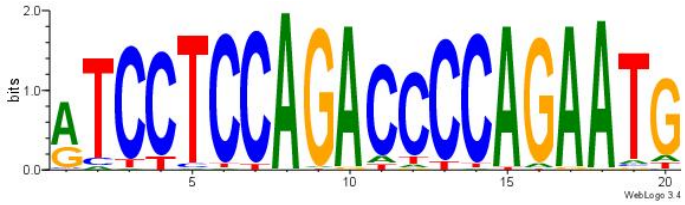

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0931523

Alignment:

```
AGATGCCAGCCAGAGCTCT
----AGCCTCCAGAACTGT
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

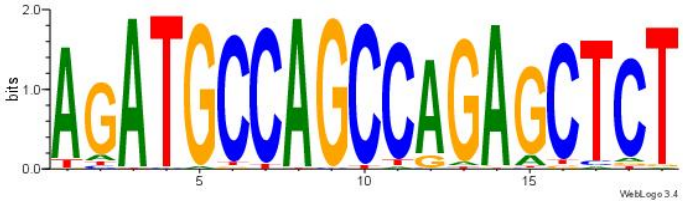

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

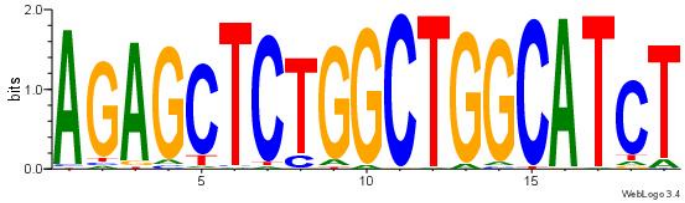

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.0940799

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-----ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

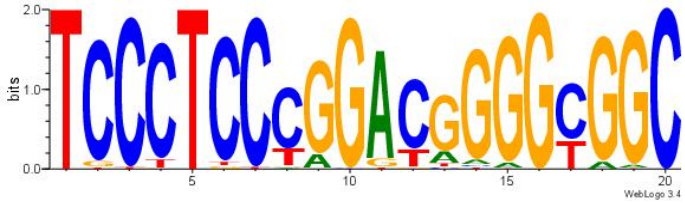

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

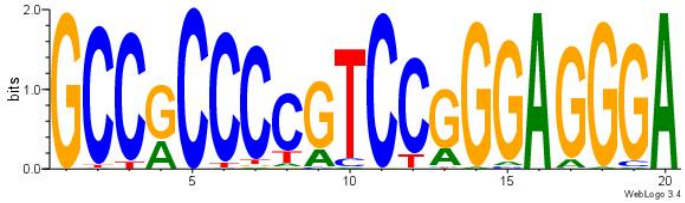

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0951379

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
---ACAGTTCTGGAGGCT--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

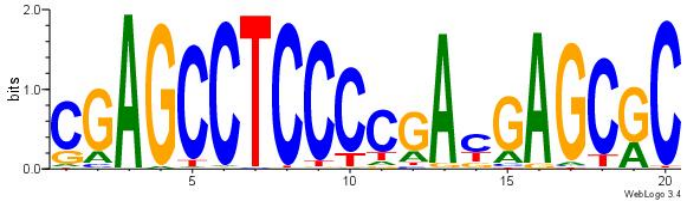

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

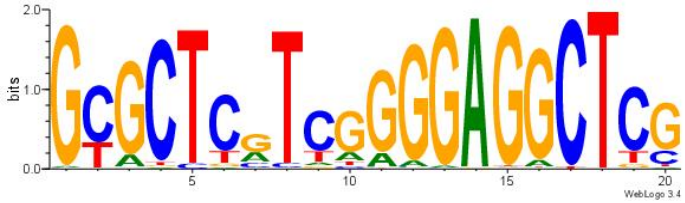

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.0954906

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
ACAGTTCTGGAGGCT-----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

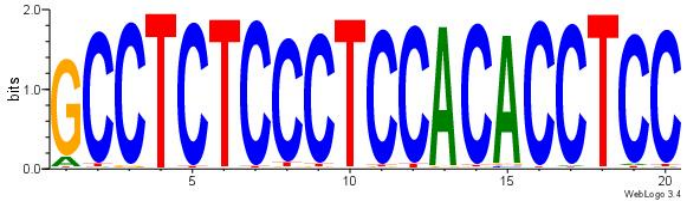

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

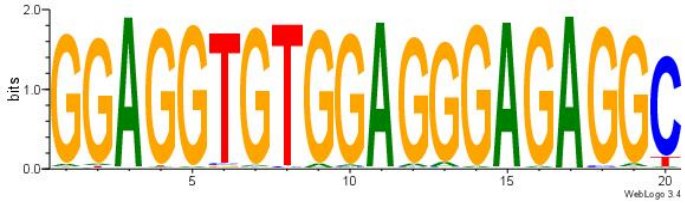

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.0996083

Alignment:
CAAGCCTSKGCAATGGCAGG
---AGCCTCCAGAACTGT--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

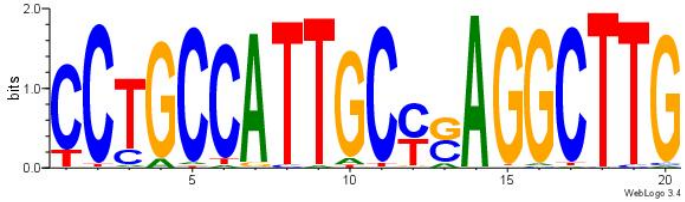

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

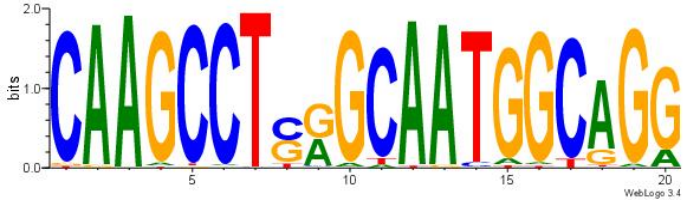

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.101233

Alignment:
CTGGGTCCCCCAGCAGTGCC
----AGCCTCCAGAACTGT-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

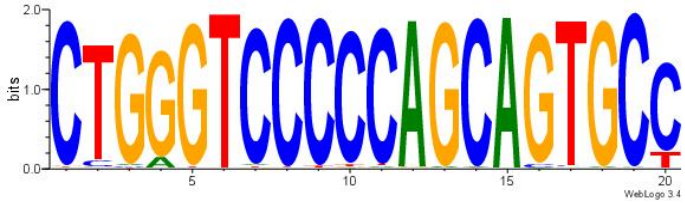

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

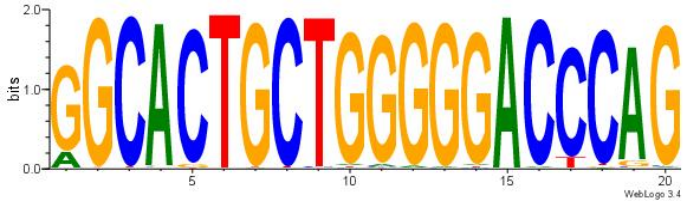

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.101809

Alignment:

```
GCCRGCCCTGCYGGCC
ACAGTTCTGGAGGCT-
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

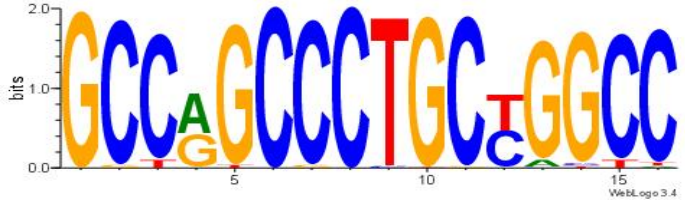

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

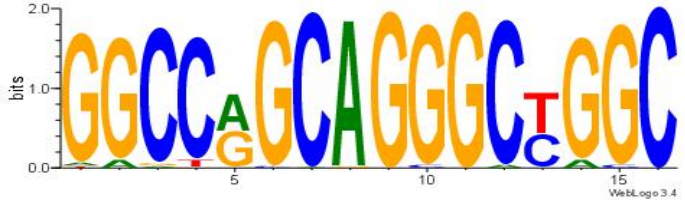

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.101971

Alignment:

```
CRTGAGCCACYGYRCCYGGC
----AGCCTCCAGAACTGT-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

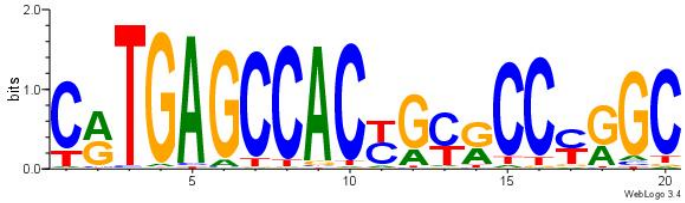

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

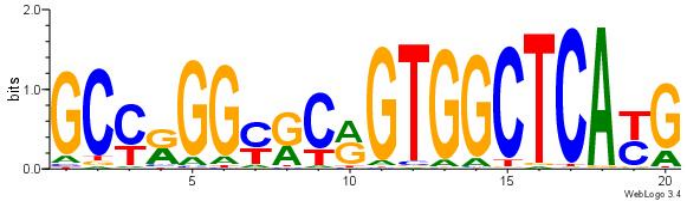

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 15
Similarity score: 0.106121

Alignment:
ATGGACAYTTRGGTTGHTTC
-ACAGTTCTGGAGGCT----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

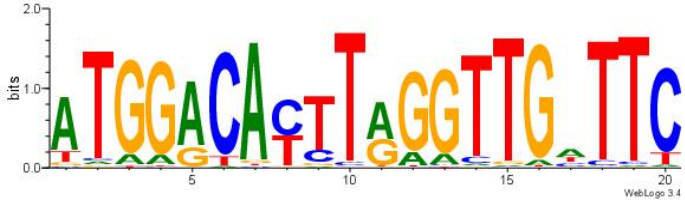

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

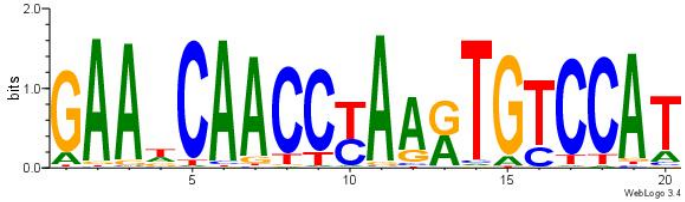

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.106402

Alignment:
ATCTGACAGGAGGYRGAGCT
-----ACAGTTCTGGAGGCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

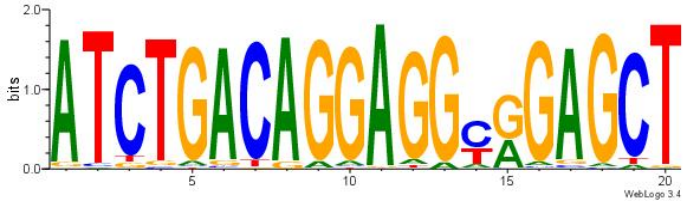

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

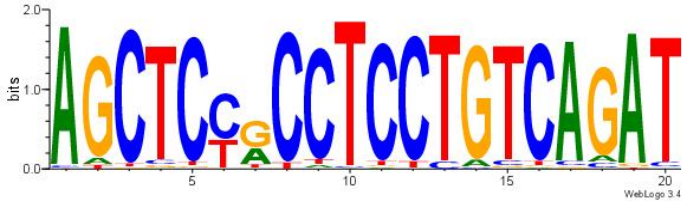

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.10658

Alignment:

```
CAAGGTCTGATTGTW
ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

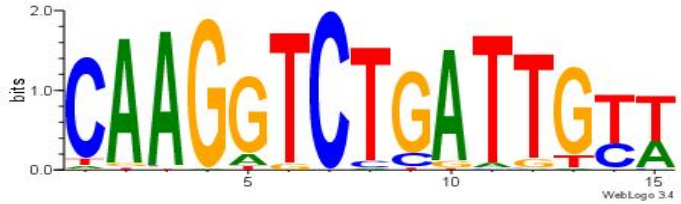

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.107188

Alignment:

```
ACCCYGTCTGGGAGGTG
-ACAGTTCTGGAGGCT-
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

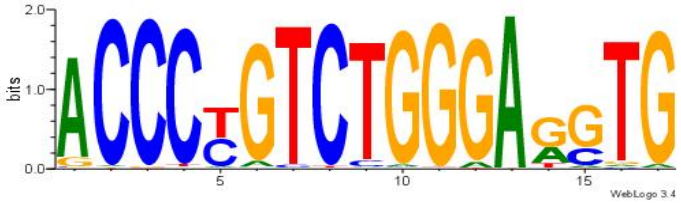

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

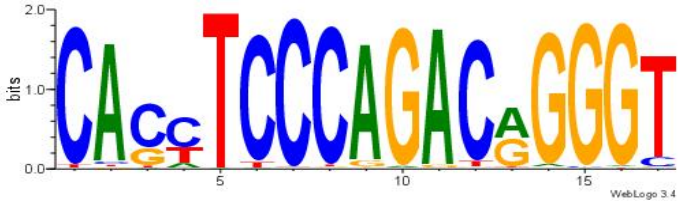

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.107204

Alignment:
AGGTCCTTCAGGAGGTATTC
---ACAGTTCTGGAGGCT--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

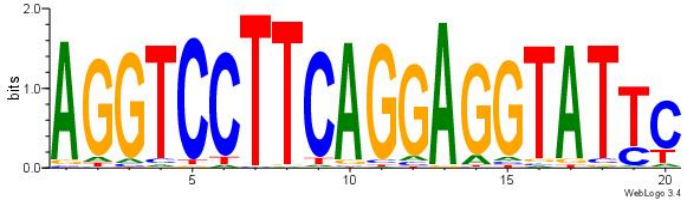

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

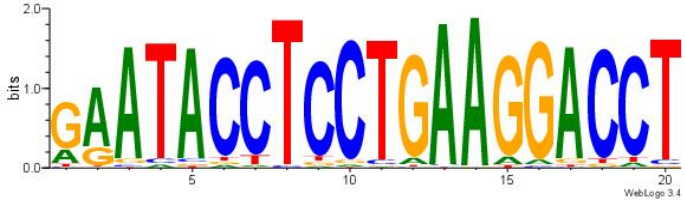

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.107438

Alignment:
ACCCAATWTGTAGTCTTTTA
-ACAGTTCTGGAGGCT----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

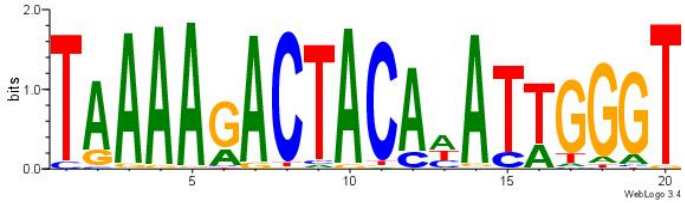

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

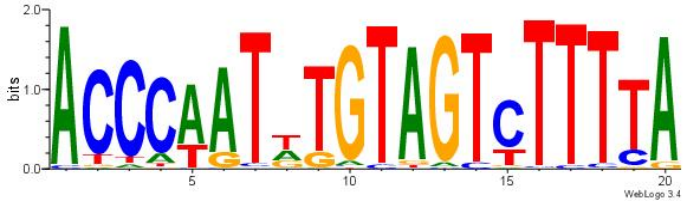

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.10744

Alignment:

```
CAAAGGCATAAGAATGAT
---AGCCTCCAGAACTGT
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

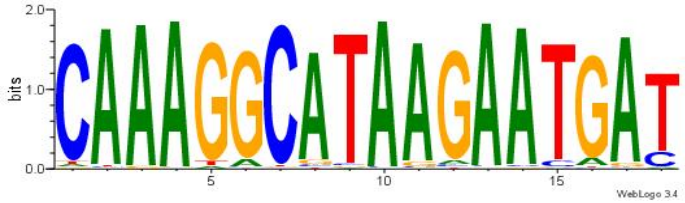

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

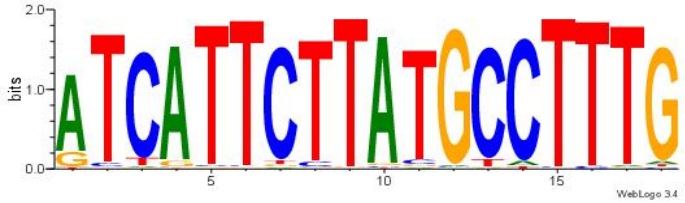

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.108023

Alignment:

```
AATCAACCCTGGYRATCAAT
-----AGCCTCCAGAACTGT
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

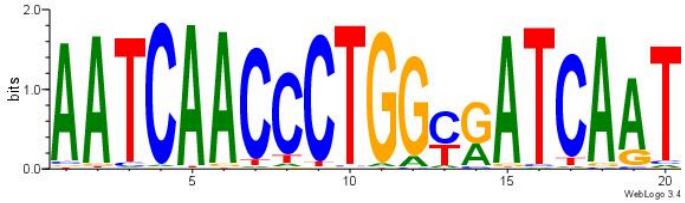

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

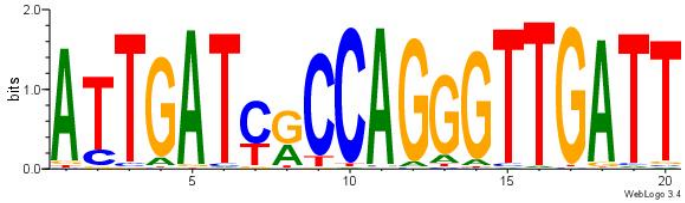

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.109205

Alignment:
AGAGTCTCACTCTGT
AGCCTCCAGAACTGT

Original motif Consensus sequence: AGAGTCTCACTCTGT

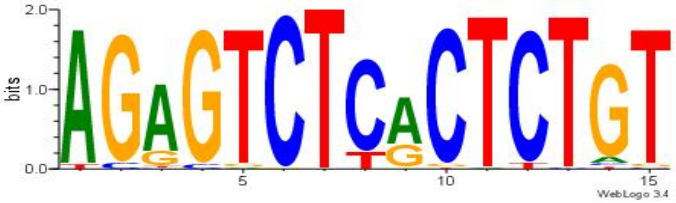

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

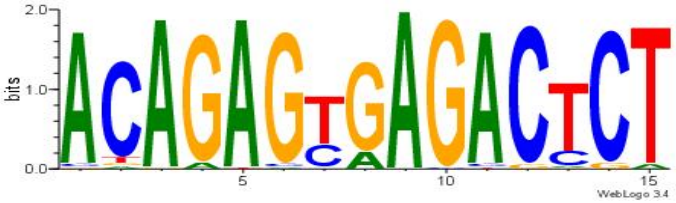

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.109656

Alignment:
CTGGGCTCCTGAGTCTGGTG
----ACAGTTCTGGAGGCT-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

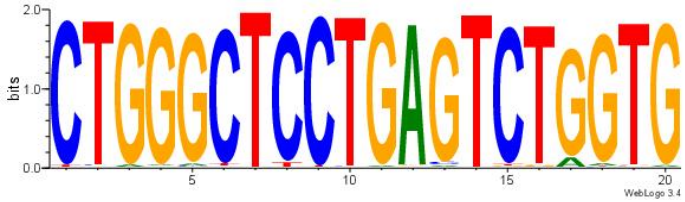

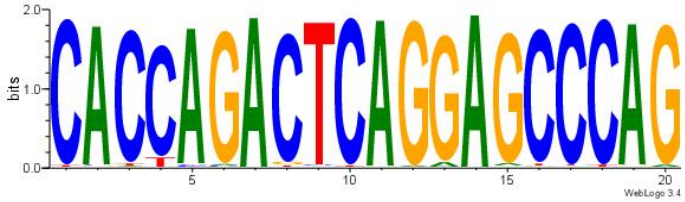

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.110246

Alignment:

```
GTTAACTGTAAAACAGCCT
ACAGTTCTGGAGGCT----
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

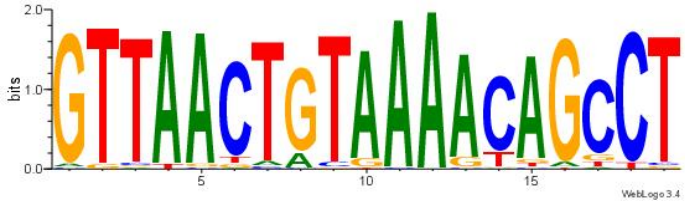

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

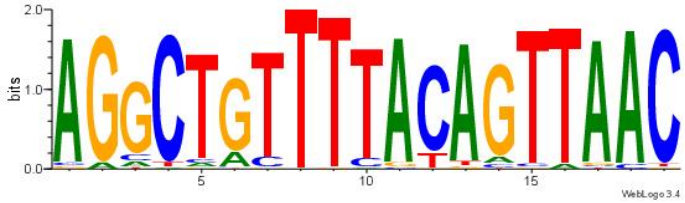

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.110498

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-----ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

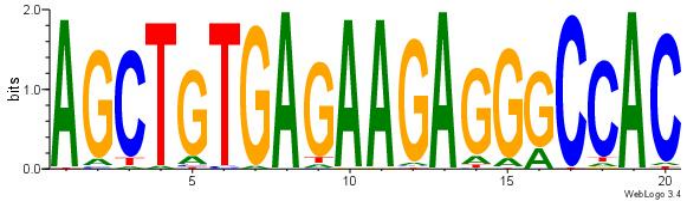

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

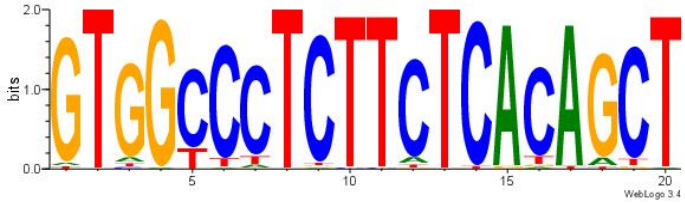

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15

Similarity score: 0.110654

Alignment:
ACACATCACAAAGCAGTTTC
-----ACAGTTCTGGAGGCT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

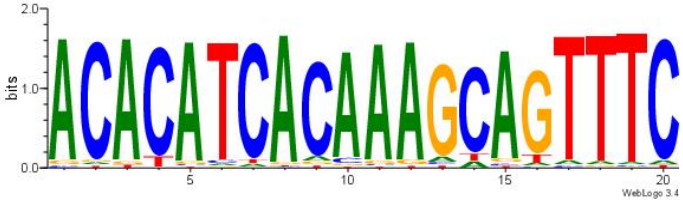

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

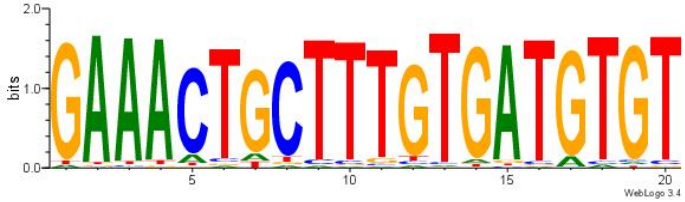

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.112743

Alignment:
AGTAGGTGCTCARTAAATRB
-----AGCCTCCAGAACTGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

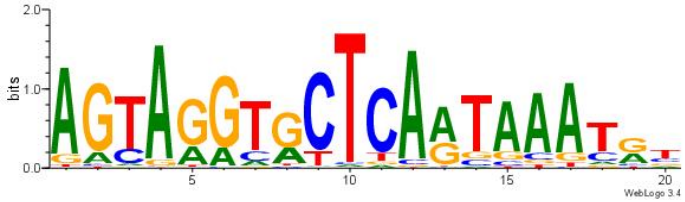

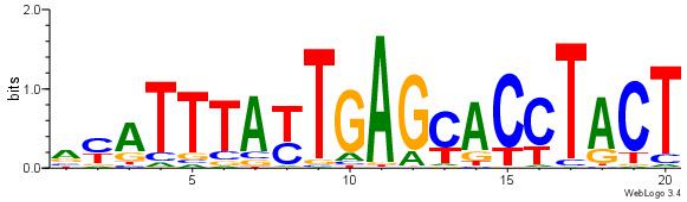

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.113491

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AGCCTCCAGAACTGT-----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

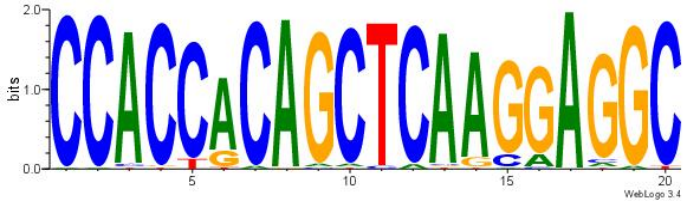

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

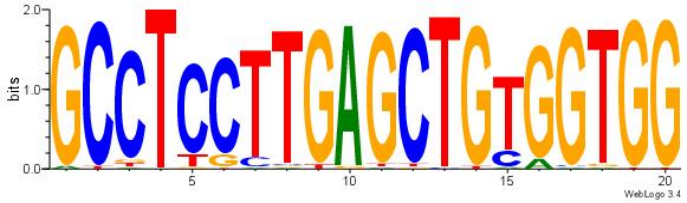

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.114607

Alignment:

```
HAGTGGKATTGCTGGATCAT
-----ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

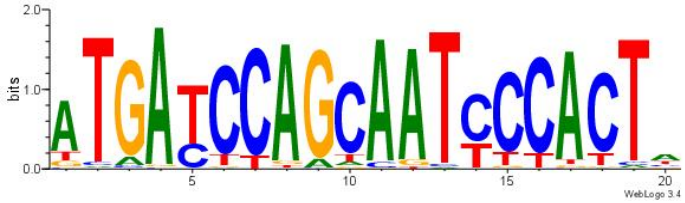

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

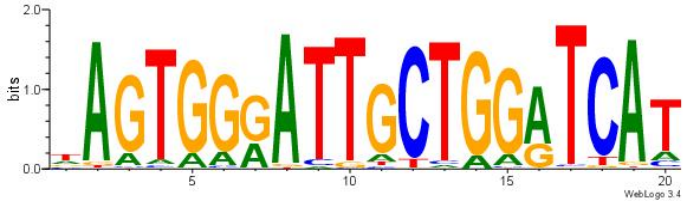

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.114702

Alignment:
CACTTTCCAGACTGGGCA
--AGCCTCCAGAACTGT-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

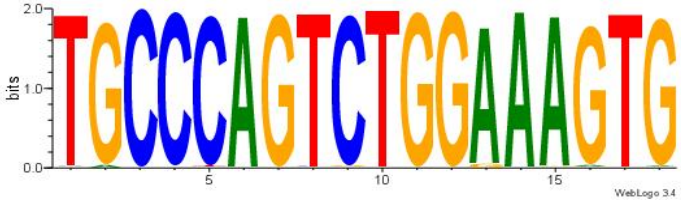

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

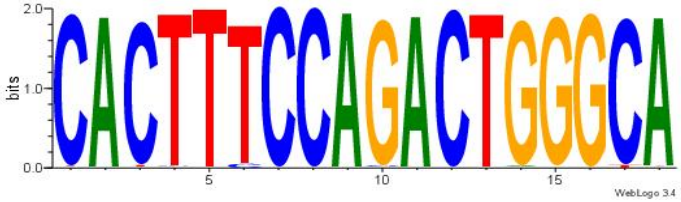

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.11565

Alignment:
ACCGAGMKMGCAGCTTCGGG
ACAGTTCTGGAGGCT-----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

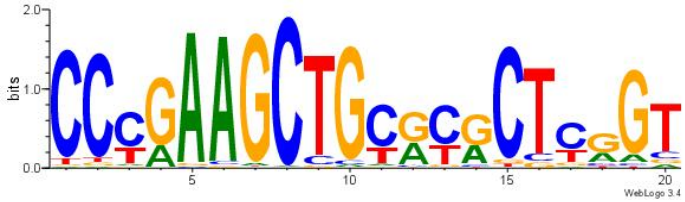

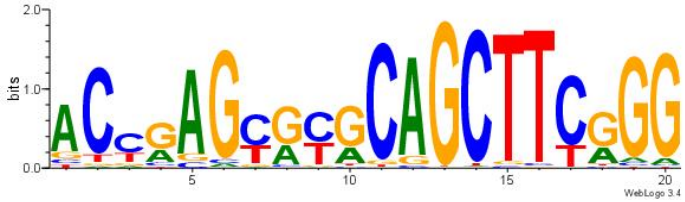

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.115861

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
----AGCCTCCAGAACTGT-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

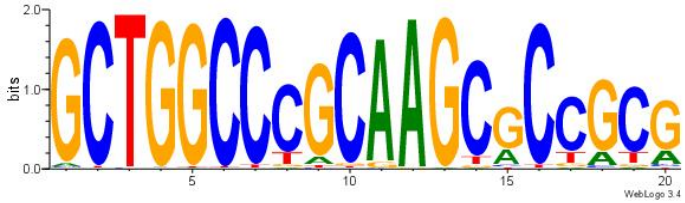

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

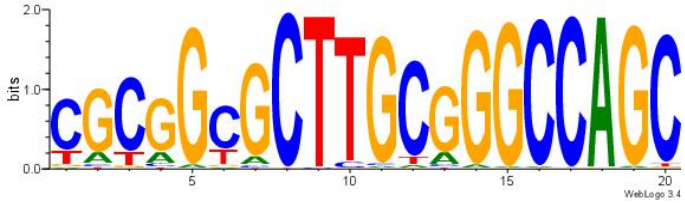

Dataset #: 1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.116364

Alignment:

```
ACGCCCACGGAGTCTC
-ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

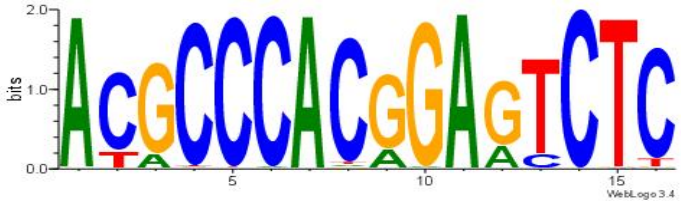

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

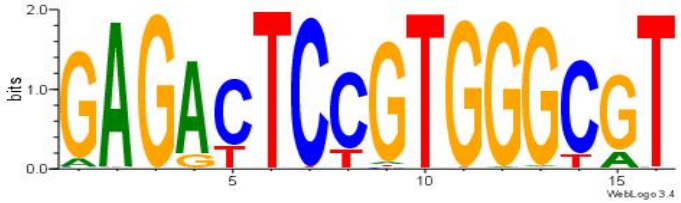

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.116393

Alignment:
GCTTAGCACCYGGGCCAGC
----AGCCTCCAGAACTGT

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

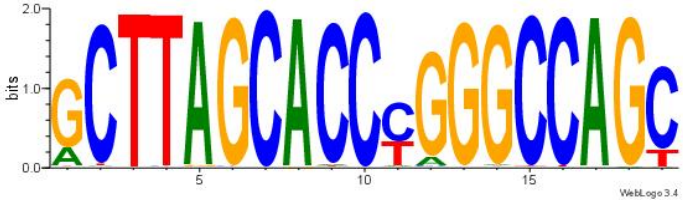

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

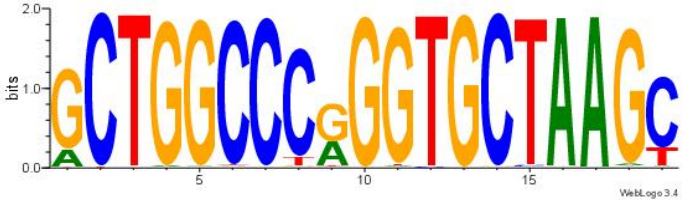

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.116484

Alignment:
CCTAGATTTCAGARGATGT
---AGCCTCCAGAACTGT-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

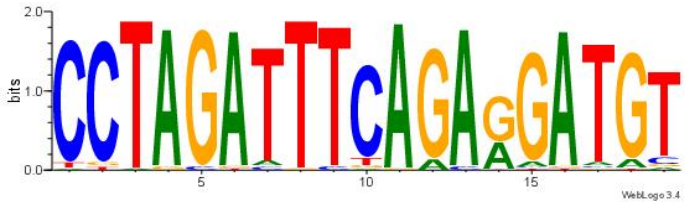

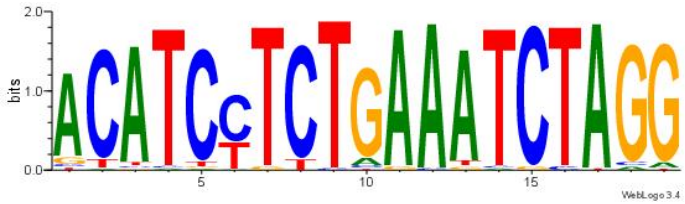

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.117493

Alignment:

```
AGCCYCTGGYAACCAYYAWT
AGCCTCCAGAACTGT-----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

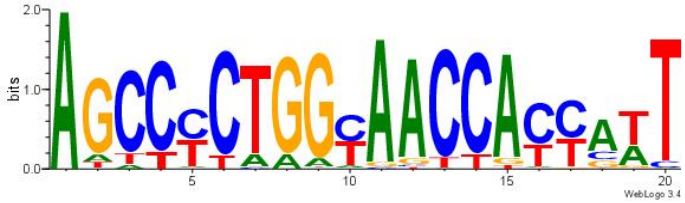

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

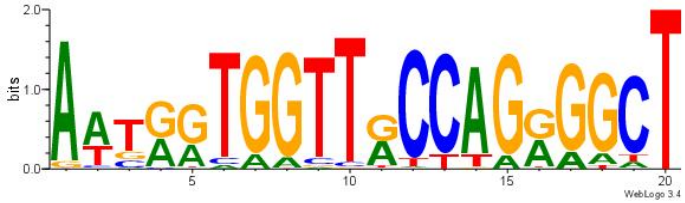

Dataset #:	1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.117668

Alignment:

```
AGGASCSTCYSWGCCMGGY
---AGCCTCCAGAACTGT-
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

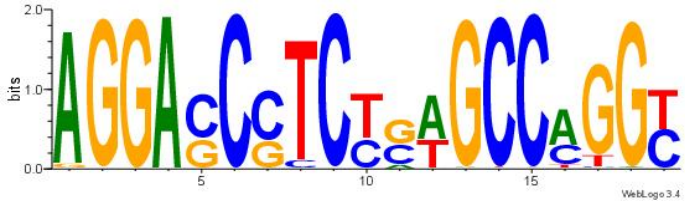

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

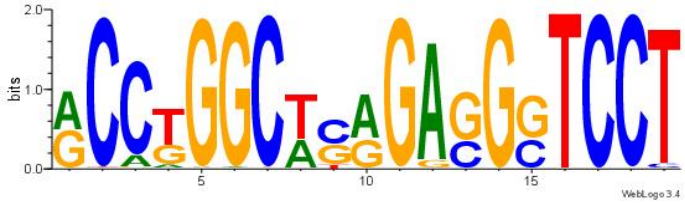

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15

Similarity score: 0.118086

Alignment:
CCGCTGCACTGTGGGAGCCC
ACAGTTCTGGAGGCT-----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

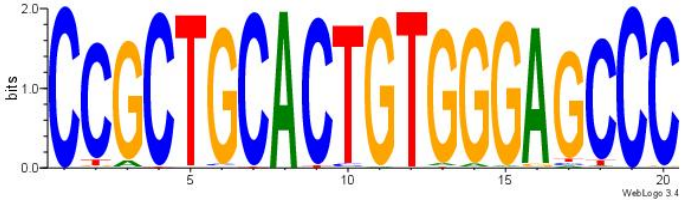

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

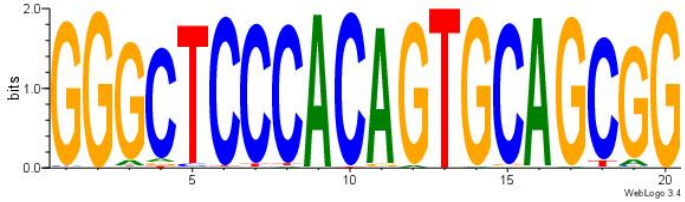

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.118517

Alignment:
GCCGTTTKTTAAGCCCGTY
----ACAGTTCTGGAGGCT

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

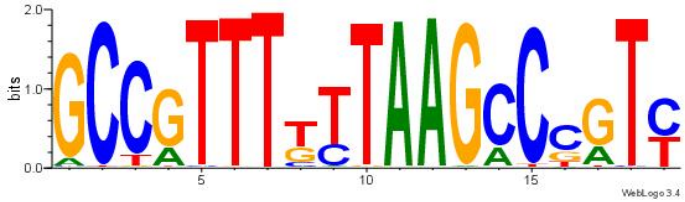

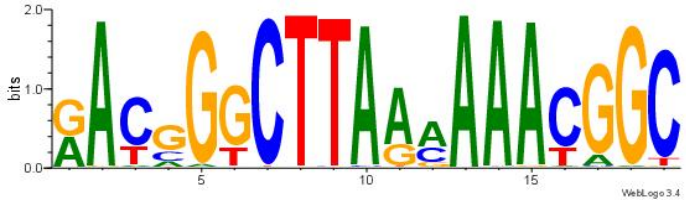

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.118764

Alignment:

```
AGCTCCCAGCGTGAGCGACG
AGCCTCCAGAACTGT-----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

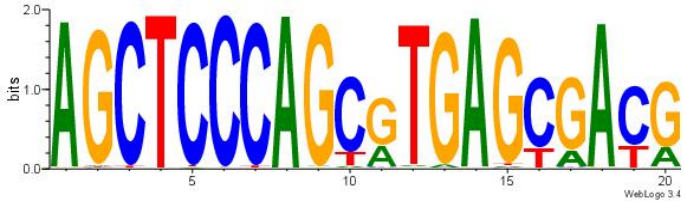

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

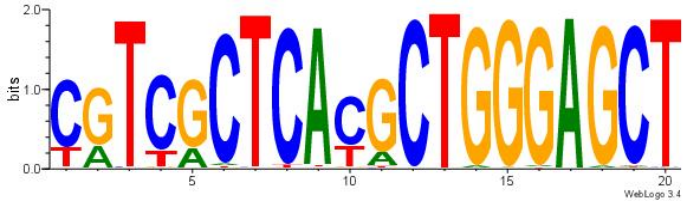

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.118819

Alignment:

```
AAAATCACAAGCATTCCTAT
--AGCCTCCAGAACTGT---
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

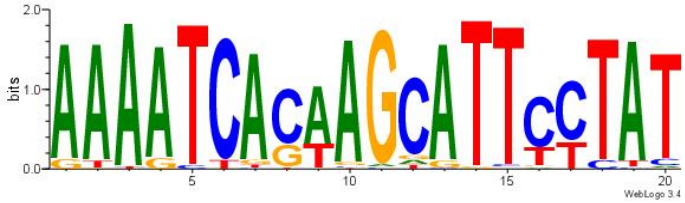

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

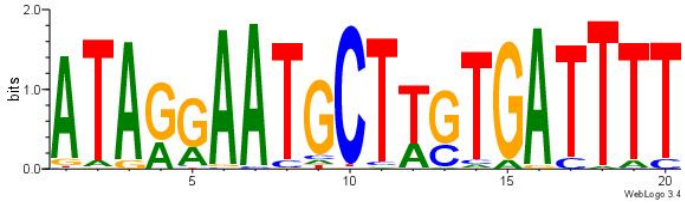

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.119015

Alignment:
CMCAGTTCACAATAGGGTT
-ACAGTTCTGGAGGCT---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

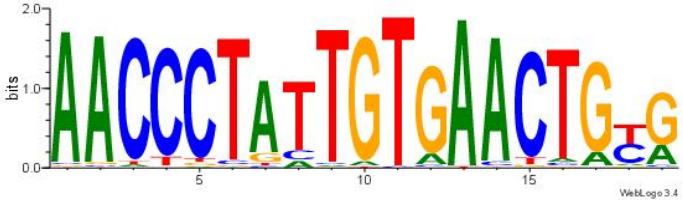

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

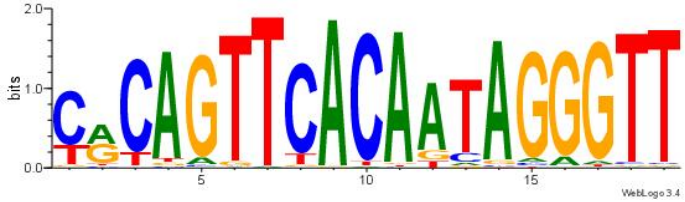

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.120044

Alignment:
AAGACCTTCCAGTGGGACAA
---AGCCTCCAGAACTGT--

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

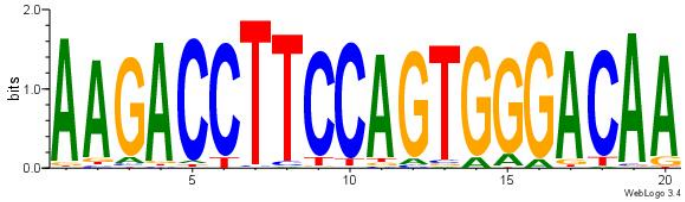

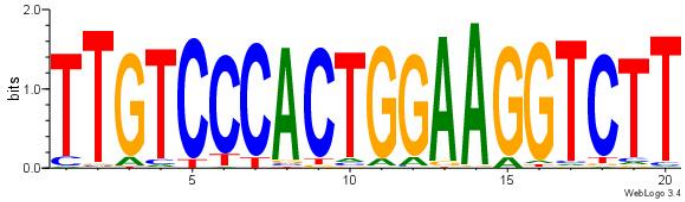

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.12081

Alignment:

```
AACAACASACACTGGGGCCT
-----ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

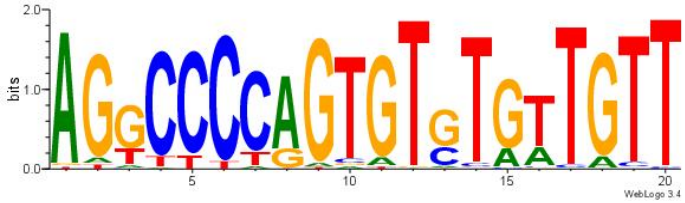

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

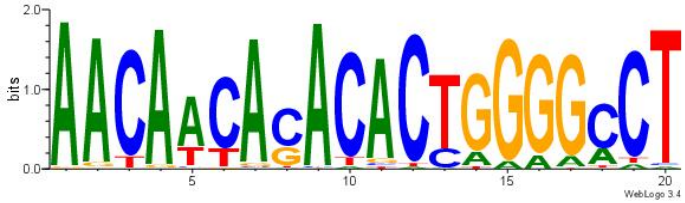

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.120937

Alignment:

```
AAAAGTCCACAGTCCAAAGT
---AGCCTCCAGAACTGT--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

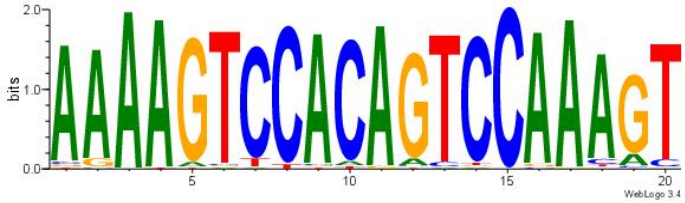

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

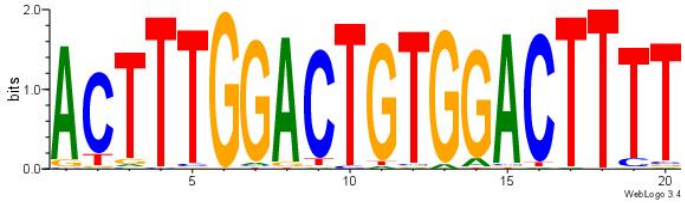

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.121485

Alignment:
GTAGACKGGAGCTGTTCCT
----AGCCTCCAGAACTGT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

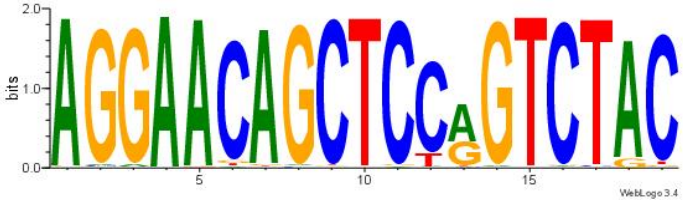

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

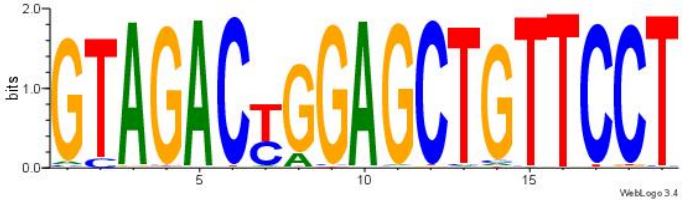

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.121502

Alignment:
AAGCTGAGGGAGCCGGCTCC
-AGCCTCCAGAACTGT----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

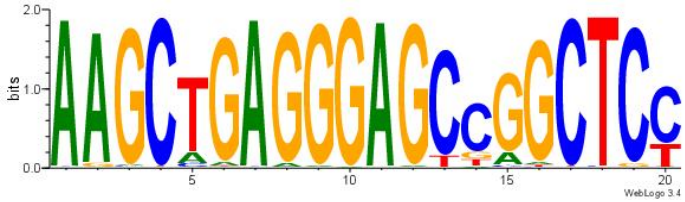

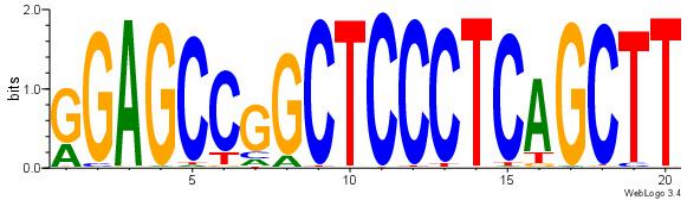

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.12279

Alignment:

```
AGGGCCTTTGCASWTGC
--AGCCTCCAGAACTGT
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

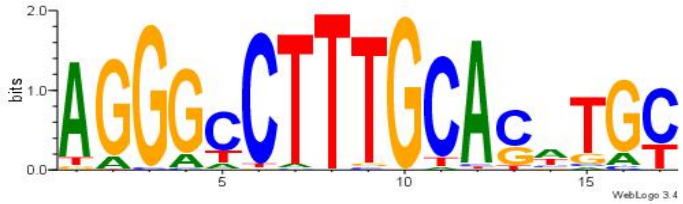

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

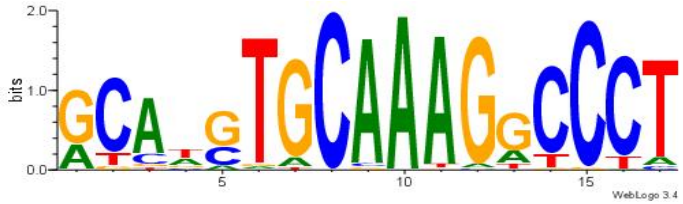

Dataset #:	1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.122856

Alignment:

```
CATGGCGGGCTGCAGGTC
ACAGTTCTGGAGGCT---
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

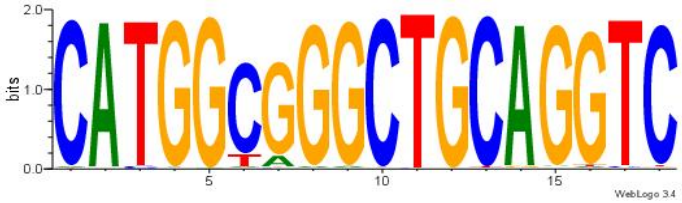

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

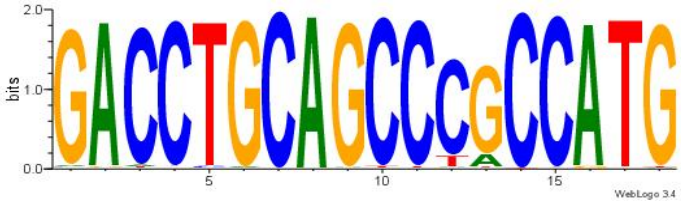

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.123276

Alignment:
ATAAAAACTTGCTGGTTTT
--ACAGTTCTGGAGGCT--

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

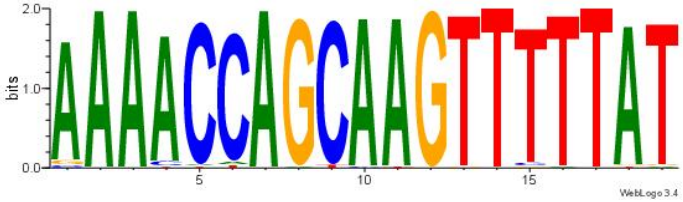

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

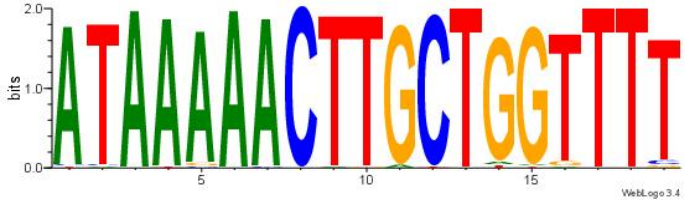

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.123306

Alignment:
ATGGCTGAATAKTATTCCAT
----AGCCTCCAGAACTGT-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

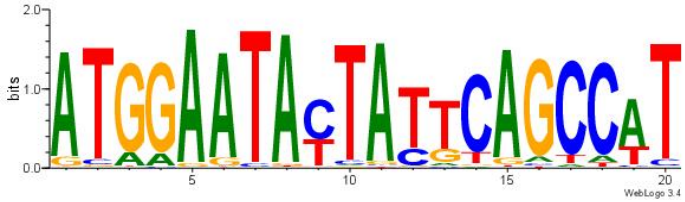

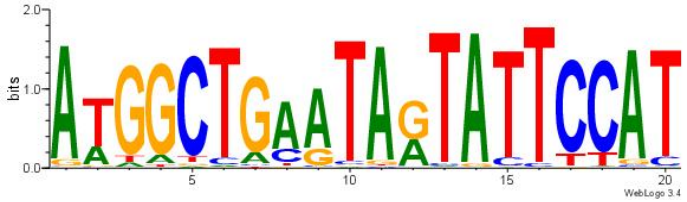

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.123533

Alignment:

```
AGACAGTGGGYGCAGGHCA
--ACAGTTCTGGAGGCT--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

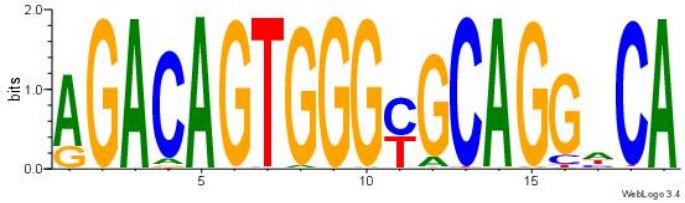

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

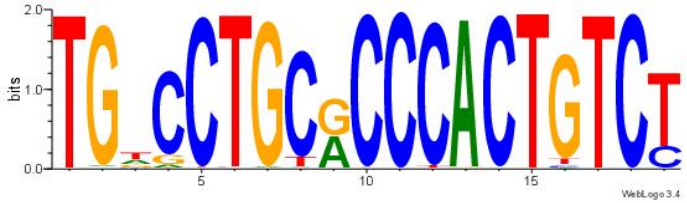

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.124286

Alignment:

```
TTGGAGGTTCTAGCAGGG
---ACAGTTCTGGAGGCT
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

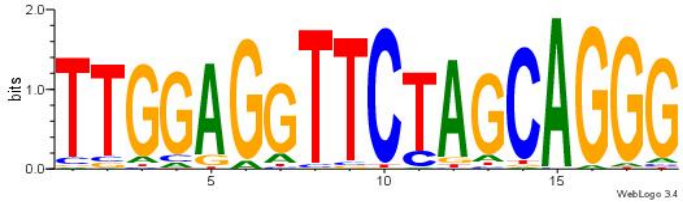

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15

Similarity score: 0.124295

Alignment:
GCTCCACCCAGTTCGAGCTT
-----ACAGTTCTGGAGGCT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

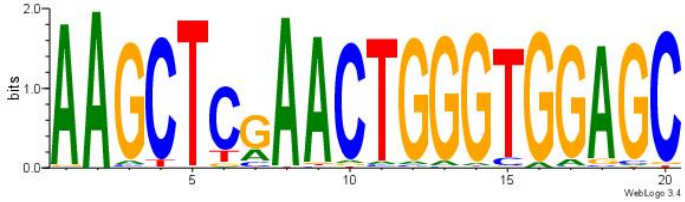

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

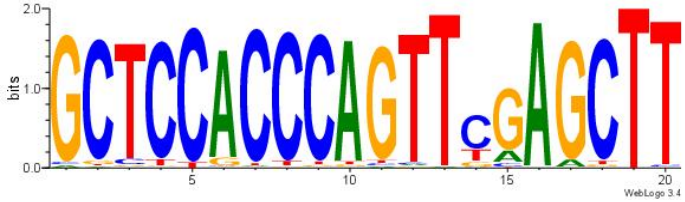

Dataset #: 1 Motif ID: 240 Motif name: Motif 240

Original motif Consensus sequence: ATGTGCWGTCCC

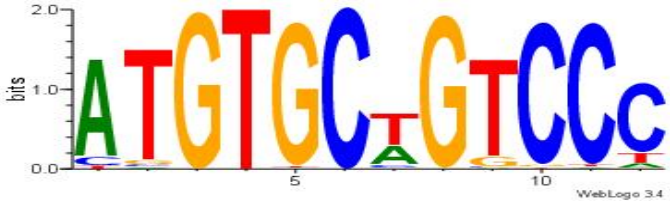

Reverse complement motif Consensus sequence: GGGACWGCACAT

Best Matches for Motif ID 240 (Highest to Lowest)

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0578868

Alignment:

```
GGGGGAGACATCACACR
----GGGACWGCACAT-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

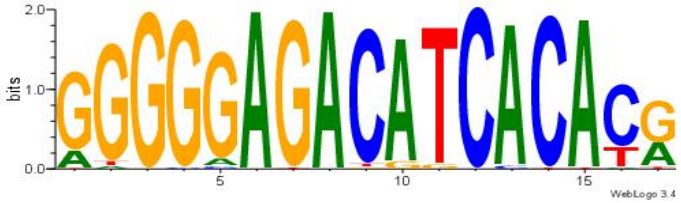

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

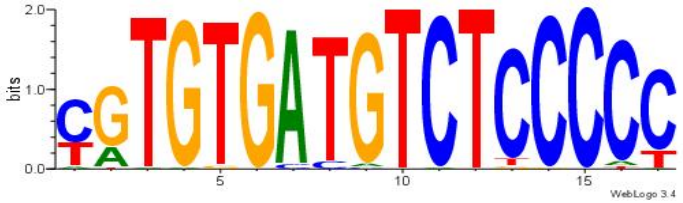

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0660844

Alignment:

```
GACATGAGCTGGCGCTTG
---ATGTGCWGTCCC---
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

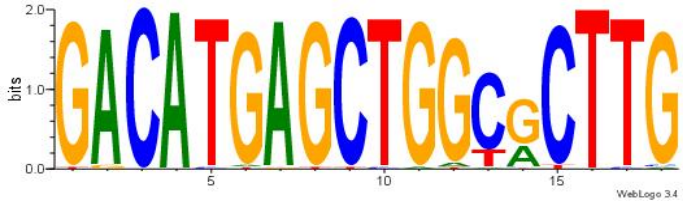

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

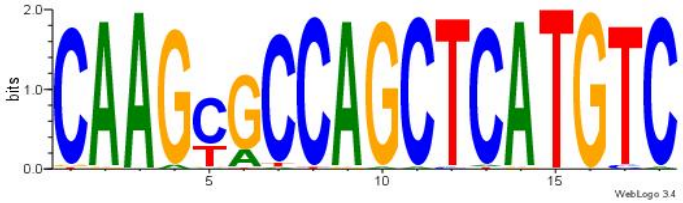

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0665252

Alignment:

```
ACAGGCTGTCCCAGGATTC
-------ATGTGCWGTCCC
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

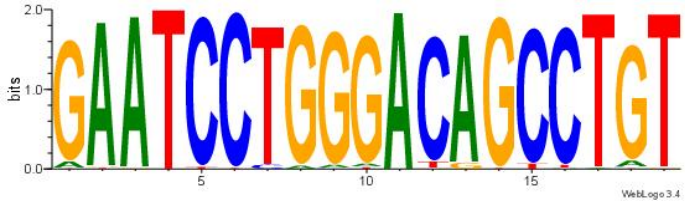

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

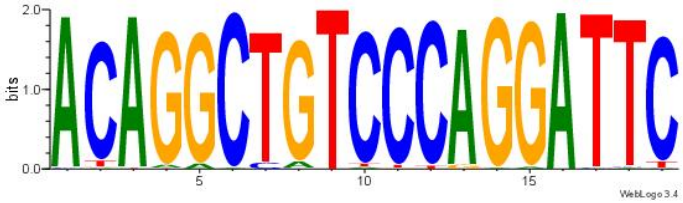

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0676775

Alignment:

```
TGGGGCTCCAGATG
-GGGACWGCACAT-
```

Original motif Consensus sequence: CATCTGGAGCCCCA

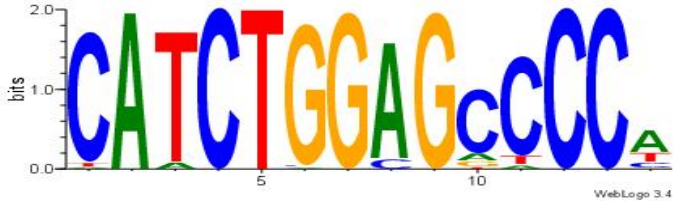

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

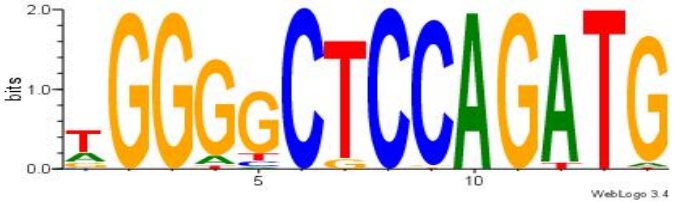

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.069616

Alignment:
GGGATTGTAAATACACCAAT
GGGACWGCACAT--------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

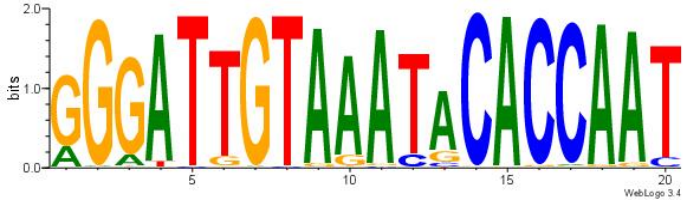

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0737461

Alignment:
CCTTGGCCAGCCCAGAAAG
----GGGACWGCACAT---

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

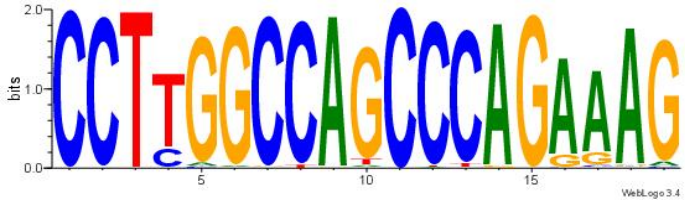

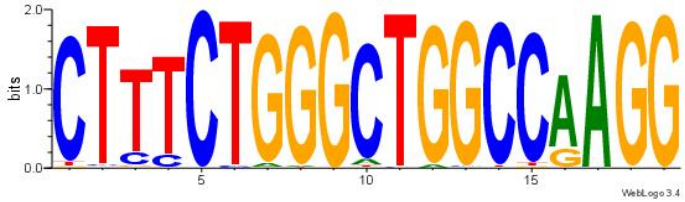

Dataset #:	1
Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0787589

Alignment:

```
CGGTACCTCAGAT
-GGGACWGCACAT
```

Original motif Consensus sequence: ATCTGAGGTACCG

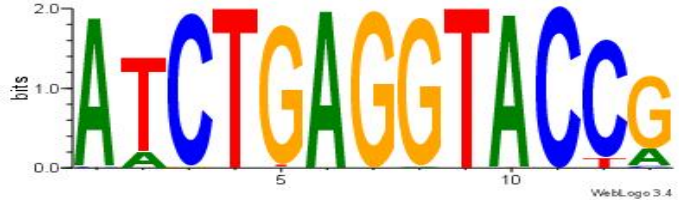

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

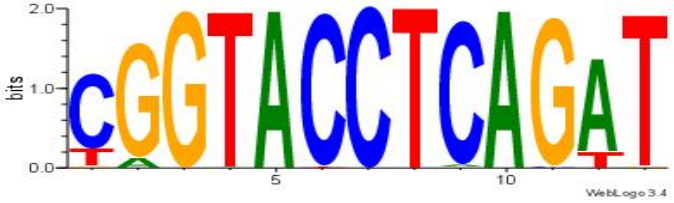

Dataset #:	1
Motif ID:	209

Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0790311

Alignment:

```
ATGGGCTGACAG
ATGTGCWGTCCC
```

Original motif Consensus sequence: CTGTCAGCCCAT

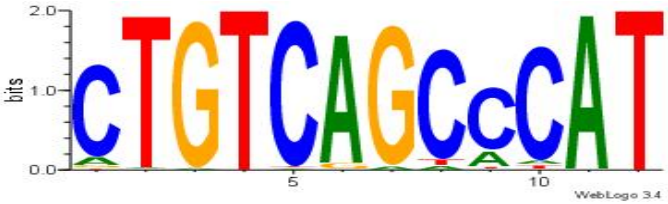

Reverse complement motif Consensus sequence: ATGGGCTGACAG

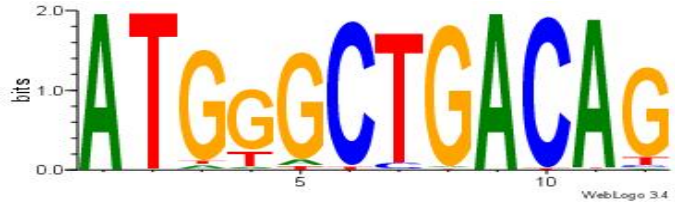

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0803388

Alignment:
AGGAACAGCTCCRGTCTAC
------GGGACWGCACAT-

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

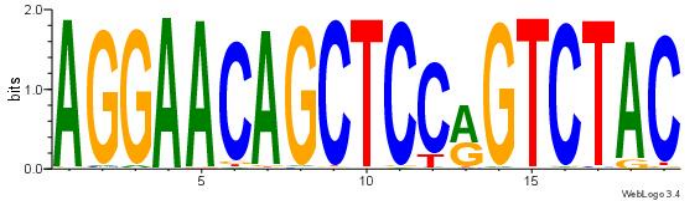

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

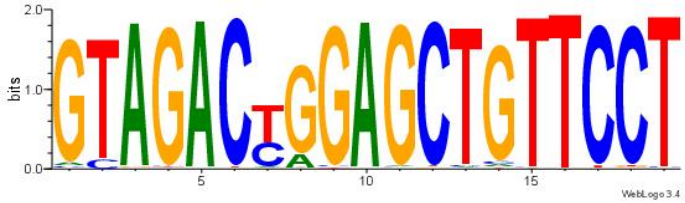

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0809016

Alignment:
GGTGGGGGGGTCAGCCCCC
-------GGGACWGCACAT

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

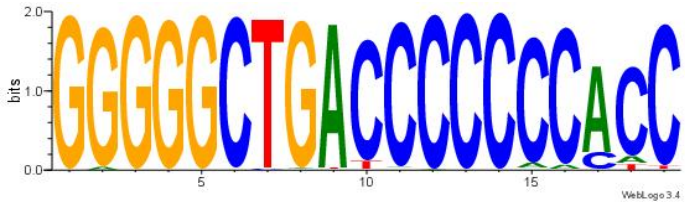

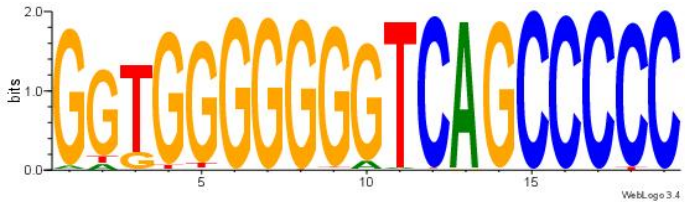

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0816498

Alignment:

```
GACCTGCAGCCCGCCATG
-----ATGTGCWGTCCC-
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

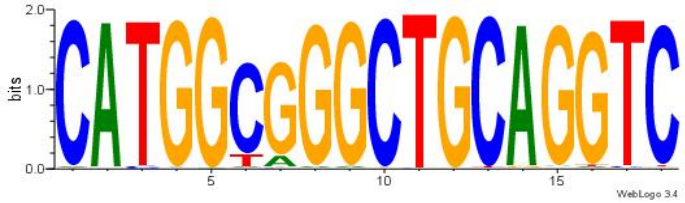

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

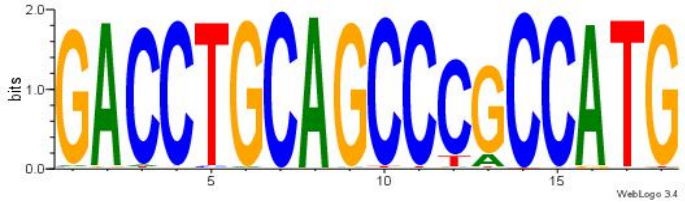

Dataset #: 1

Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0828839

Alignment:

```
ATCTGVTCACCCC
-ATGTGCWGTCCC
```

Original motif Consensus sequence: GGGGTGAVCAGAT

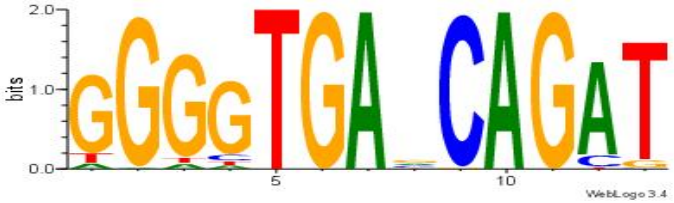

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

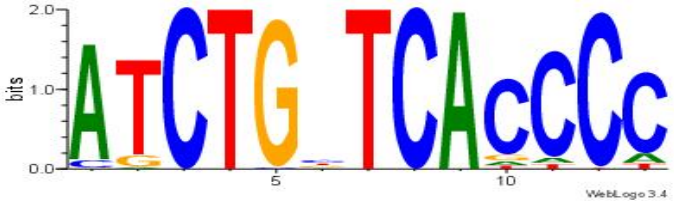

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.085929

Alignment:
GTGGGTGCAGTGCA
ATGTGCWGTCCC--

Original motif Consensus sequence: TGCACTGCACCCAC

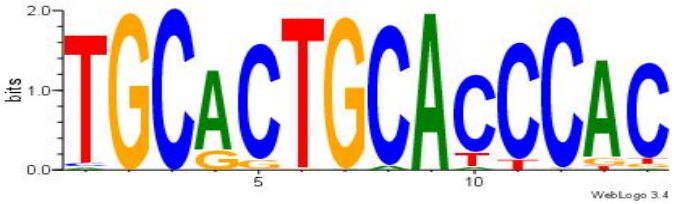

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

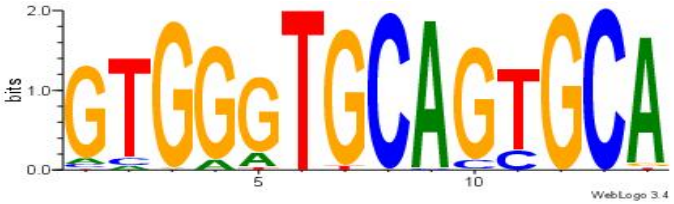

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0871476

Alignment:
TCTGGAGTGGACCTCCAGCA
--GGGACWGCACAT------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

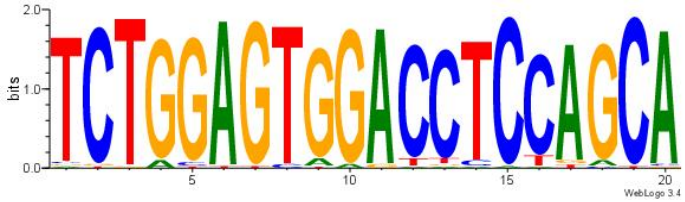

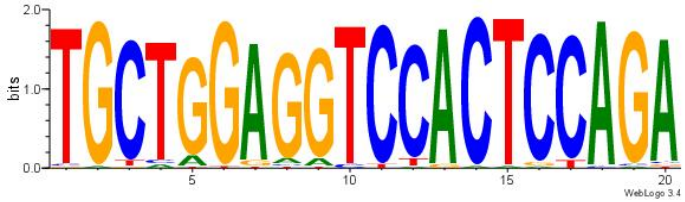

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0891789

Alignment:

```
ACCCAATWTGTAGTCTTTTA
---ATGTGCWGTCCC-----
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

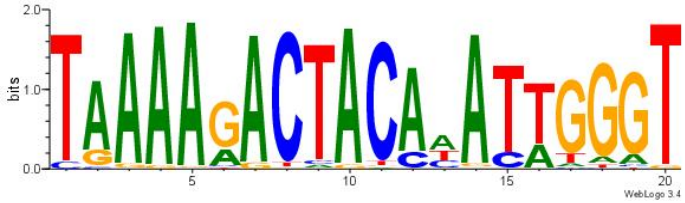

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

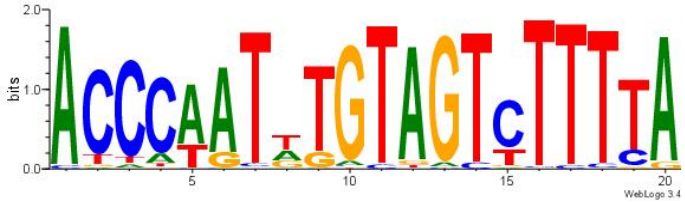

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0909448

Alignment:

```
CCGCTGCACTGTGGGAGCCC
--------ATGTGCWGTCCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

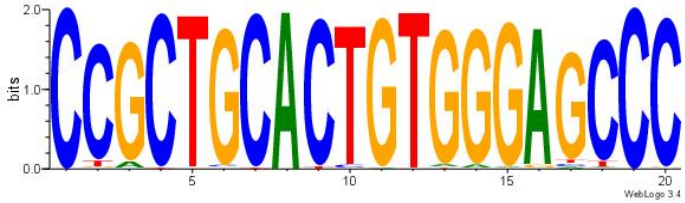

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

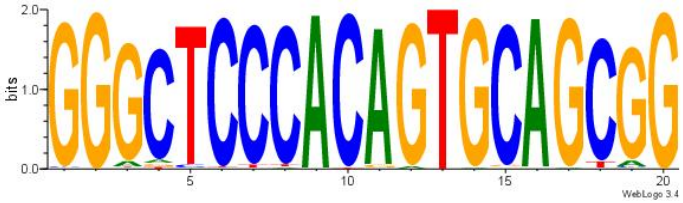

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.0914395

Alignment:
GGGTCAGGGAGTTCCCTTTC
------GGGACWGCACAT--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

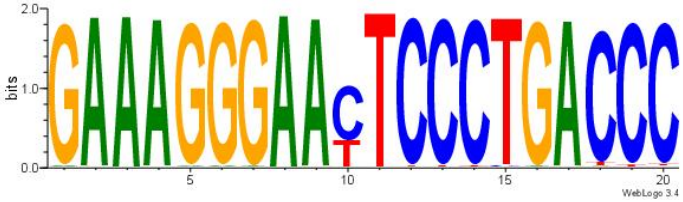

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

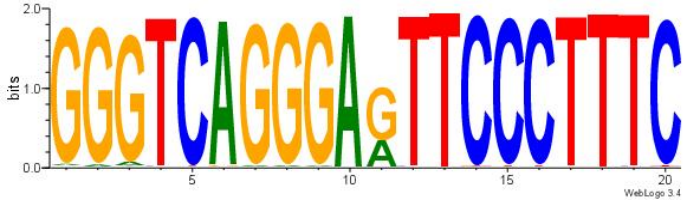

Dataset #: 1
Motif ID: 221
Motif name: Motif 221
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0917364

Alignment:
GTGTCCCCTTCCTCCC
----ATGTGCWGTCCC

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

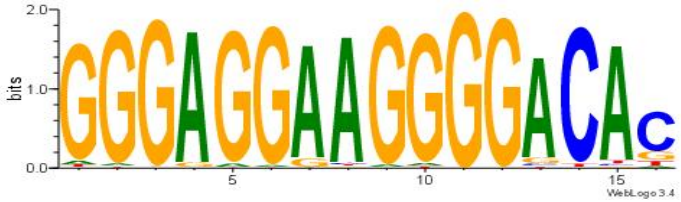

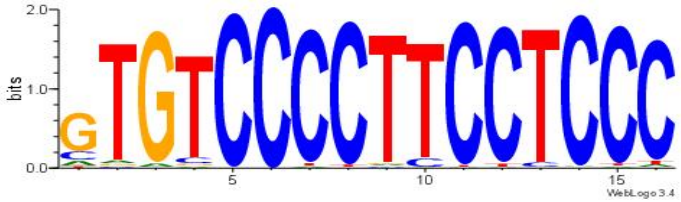

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0919826

Alignment:

```
TCAATGGGCTCCCAAATG
---ATGTGCWGTCCC---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

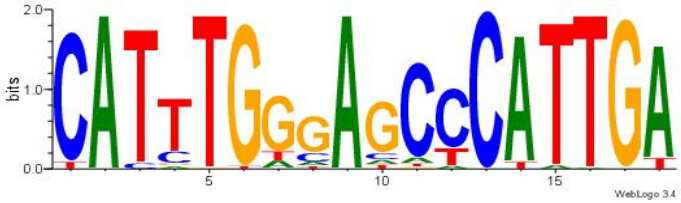

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

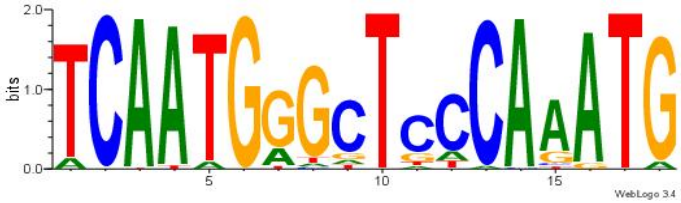

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0926631

Alignment:

```
TCKMGCCACTGCACTCCAGC
----GGGACWGCACAT----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

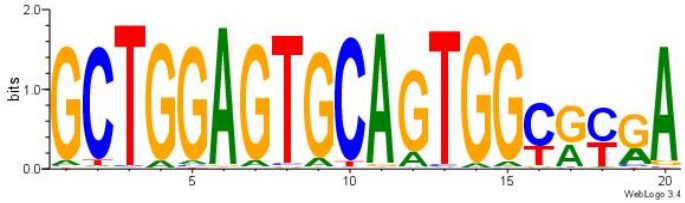

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

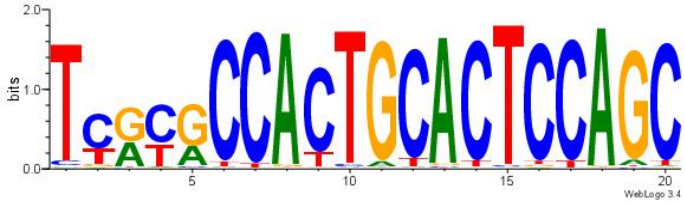

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0932982

Alignment:
CATCTGGCAGCCCA
-ATGTGCWGTCCC-

Original motif Consensus sequence: CATCTGGCAGCCCA

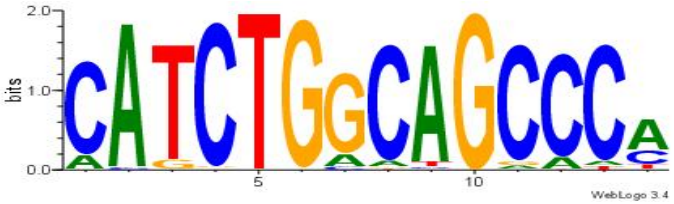

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

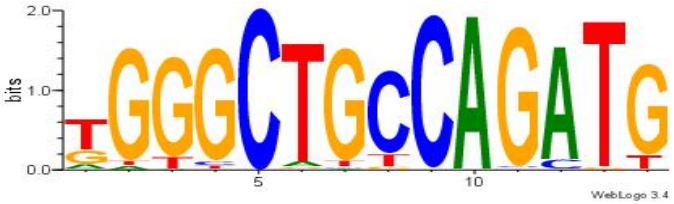

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0940466

Alignment:
MGAAGGGACTTGCCTTGT
----GGGACWGCACAT--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

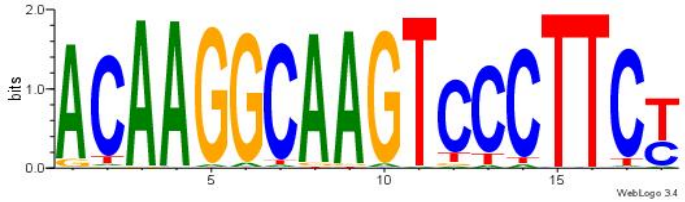

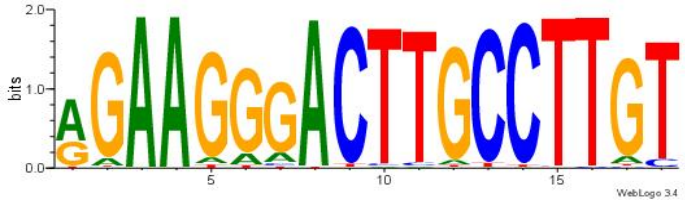

Dataset #:	1
Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0958984

Alignment:

```
GAACTCCTGACCT
-ATGTGCWGTCCC
```

Original motif Consensus sequence: AGGTCAGGAGTTC

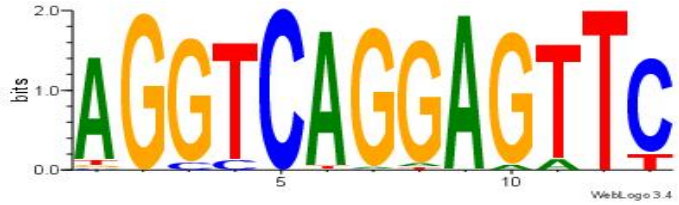

Reverse complement motif Consensus sequence: GAACTCCTGACCT

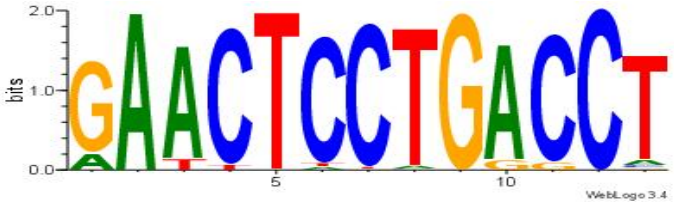

Dataset #:	1
Motif ID:	78

Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.097101

Alignment:

```
CCGCGGGGCAGGGCTCG
----GGGACWGCACAT-
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

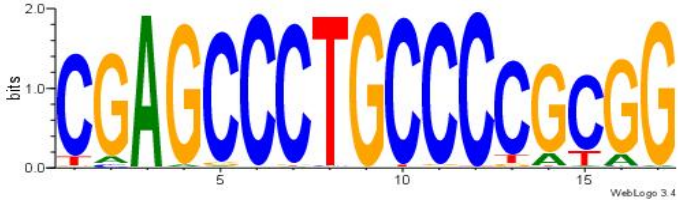

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

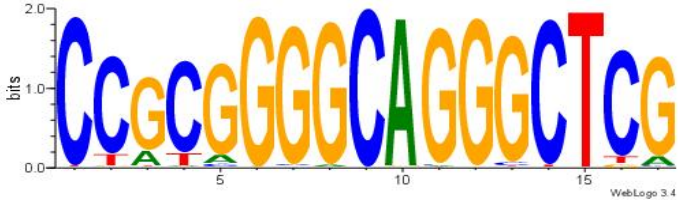

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0989474

Alignment:
GCCTCCTTGAGCTGTGGTGG
------ATGTGCWGTCCC--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

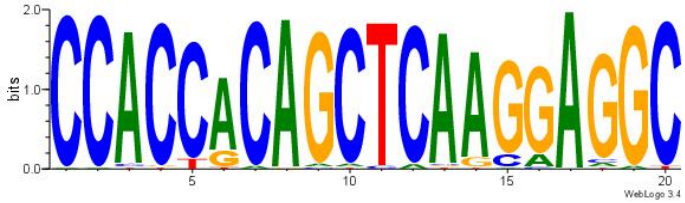

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

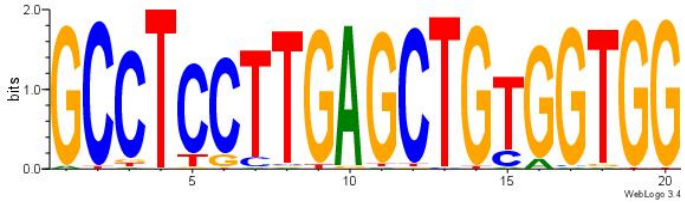

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0998082

Alignment:
BCVTCTGTCACCCC
ATGTGCWGTCCC--

Original motif Consensus sequence: GGGGTGACAGABGB

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

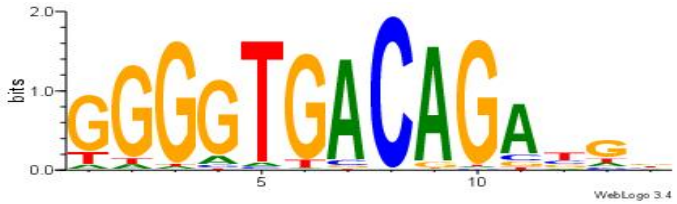

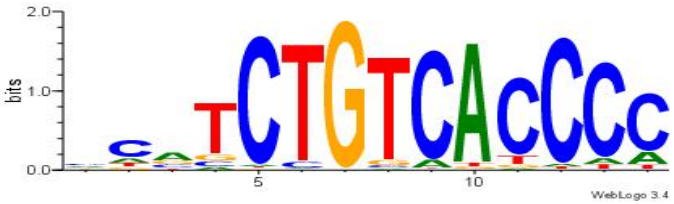

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.101102

Alignment:

```
AAAATGTGGTAYATAYAYAC
---ATGTGCWGTCCC-----
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

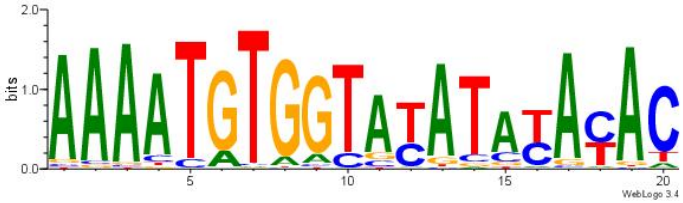

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

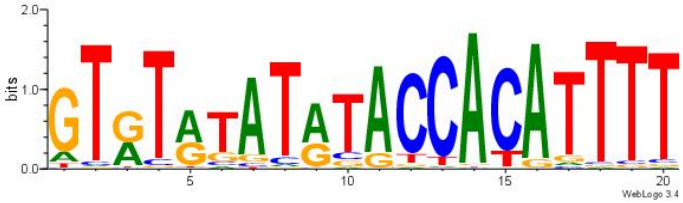

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.101461

Alignment:

```
TAATTTTATGTGTCAACTTG
--ATGTGCWGTCCC------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

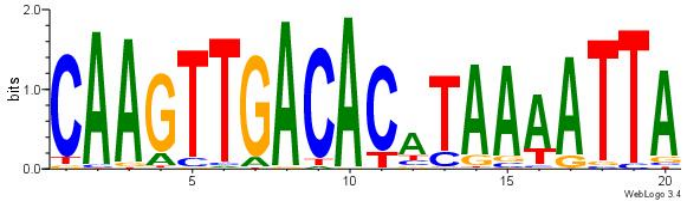

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

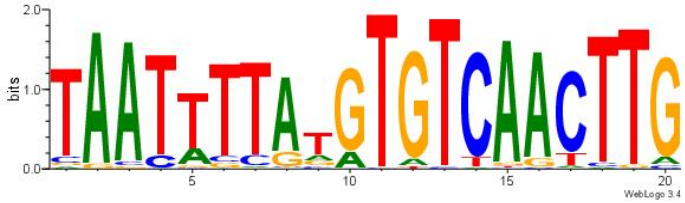

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.101502

Alignment:
GCCKGGMKCMGTGGCTCAKG
-----ATGTGCWGTCCC---

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

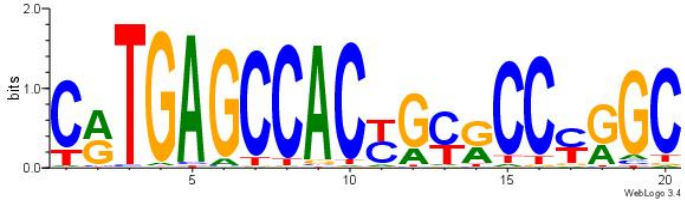

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

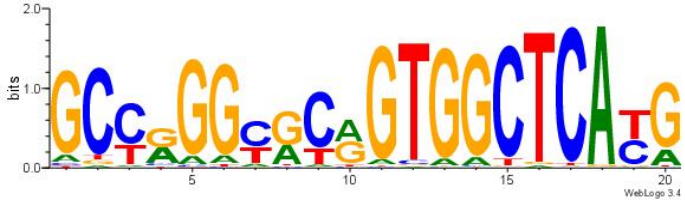

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.101596

Alignment:
AAGGGACATTKGAG
GGGACWGCACAT--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

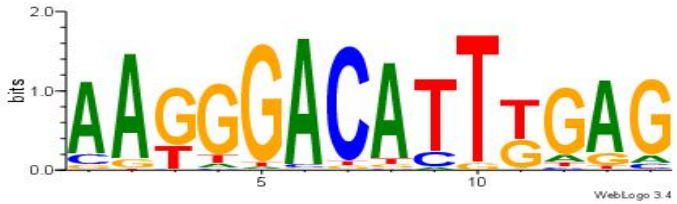

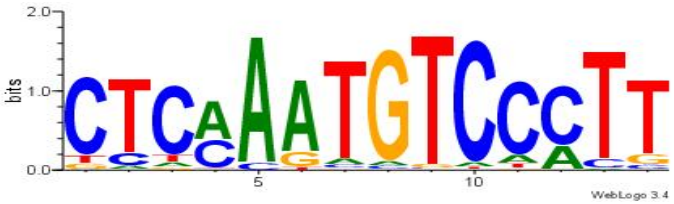

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.101772

Alignment:

```
ACTCCCTAGTGAGATGAACC
ATGTGCWGTCCC--------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

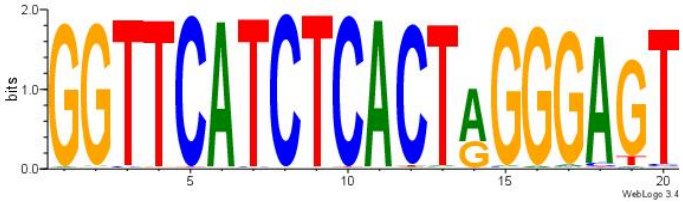

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

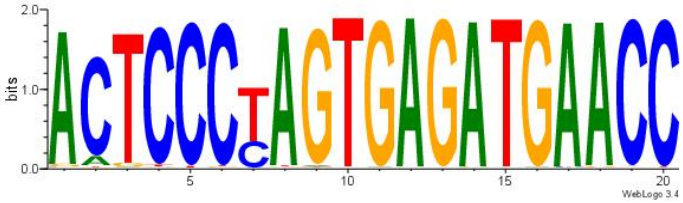

Dataset #: 1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102193

Alignment:

```
CTTCGCTGACTCTCTTT
-----ATGTGCWGTCCC
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

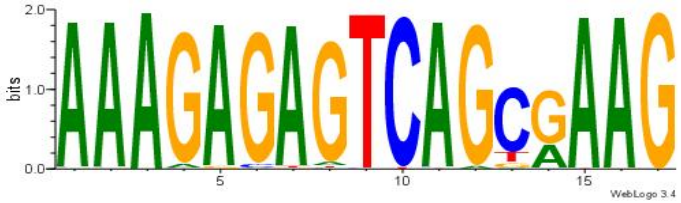

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

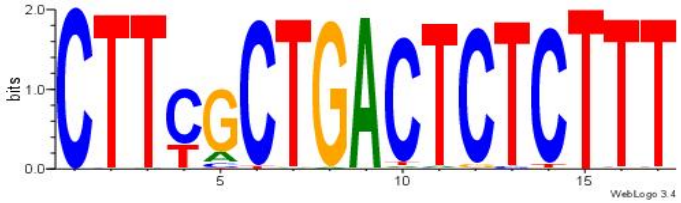

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.102603

Alignment:
GKCTGTACCCCCATTGTAT
-------ATGTGCWGTCCC

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

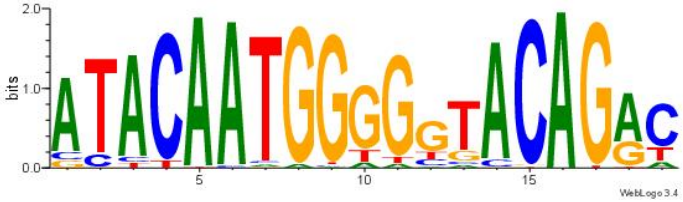

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

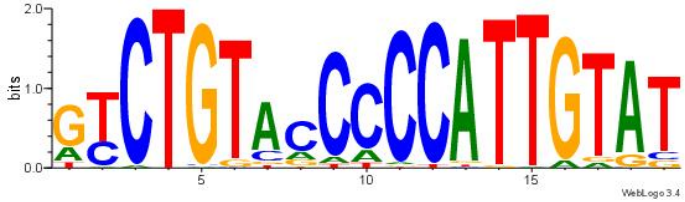

Dataset #: 1
Motif ID: 301
Motif name: Motif 301
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.102696

Alignment:
CCAAGACYCCAGAC
--GGGACWGCACAT

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

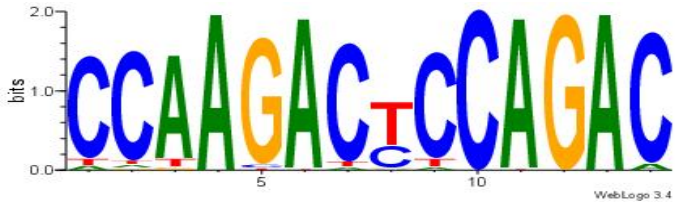

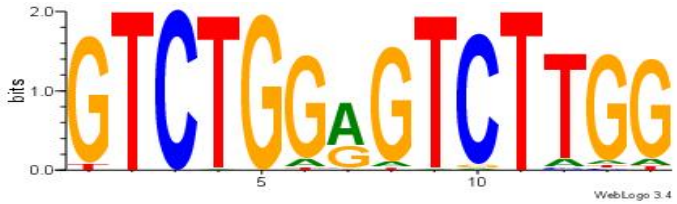

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.102884

Alignment:

```
CTTGCGCTTCCCRRGTGA
-ATGTGCWGTCCC-----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

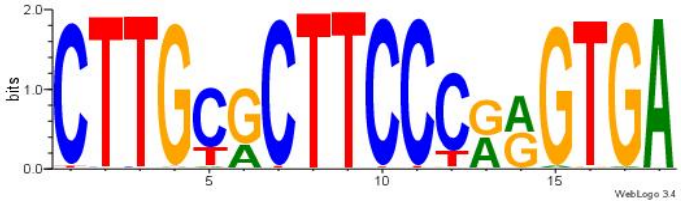

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

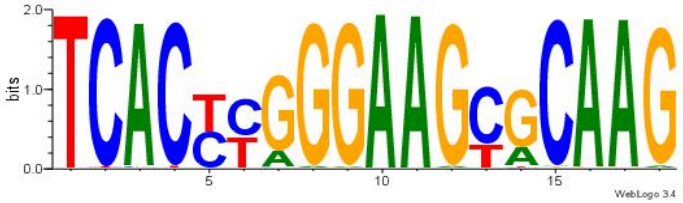

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.102959

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-ATGTGCWGTCCC-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

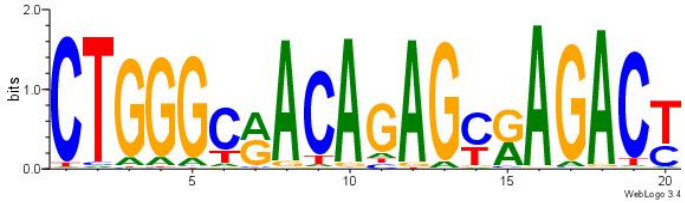

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

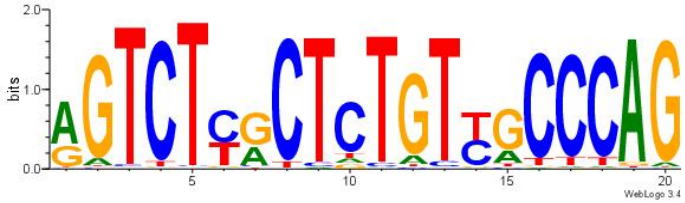

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.103017

Alignment:
GCAWSTGCAAAGGCCCT
----ATGTGCWGTCCC-

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

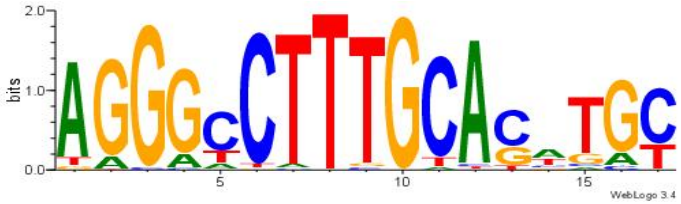

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

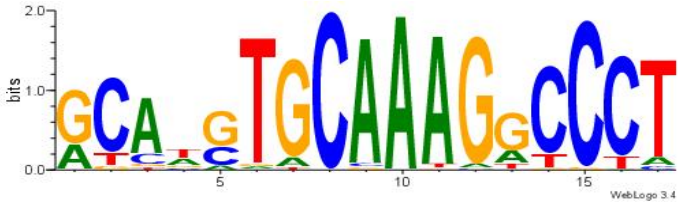

Dataset #: 1
Motif ID: 153
Motif name: Motif 153
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.103052

Alignment:
CACTAGGGAGTGCC
--ATGTGCWGTCCC

Original motif Consensus sequence: CACTAGGGAGTGCC

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

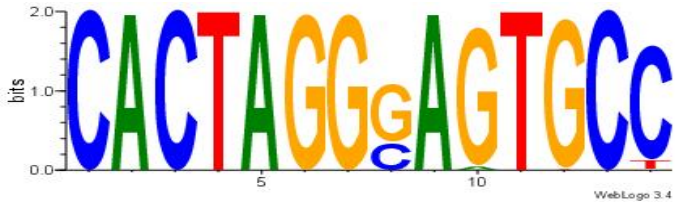

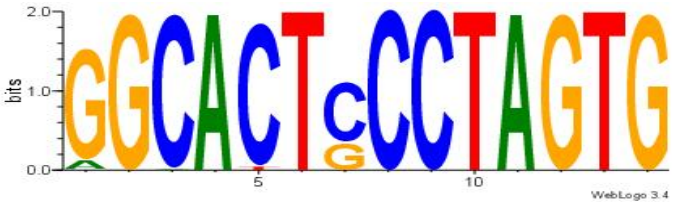

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.103163

Alignment:

```
GCAAAKGACATGATYTCATT
----GGGACWGCACAT----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

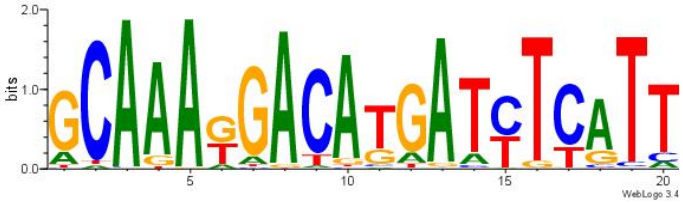

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

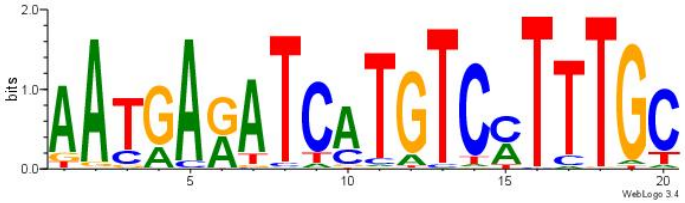

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.103647

Alignment:

```
ACTGTCTTCCACCTCCACAT
GGGACWGCACAT--------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

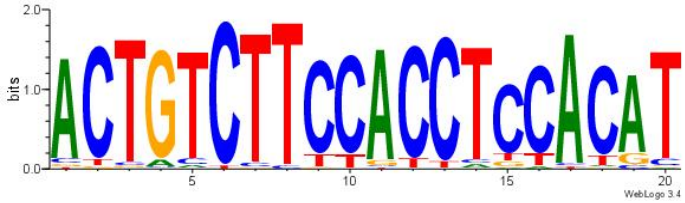

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

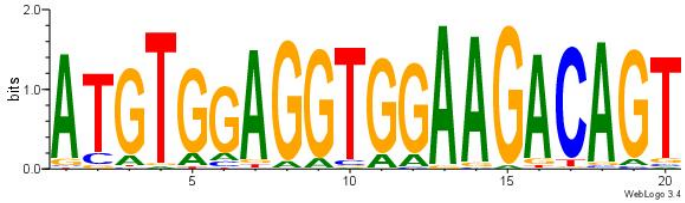

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.104095

Alignment:
CGCGGCGCTTGCGGGCCAGC
--ATGTGCWGTCCC------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

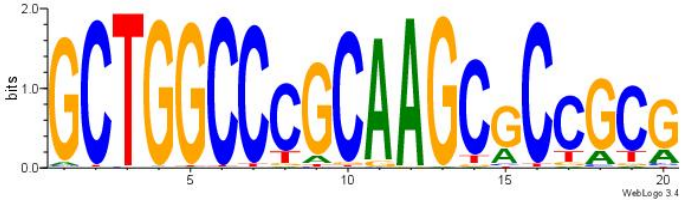

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

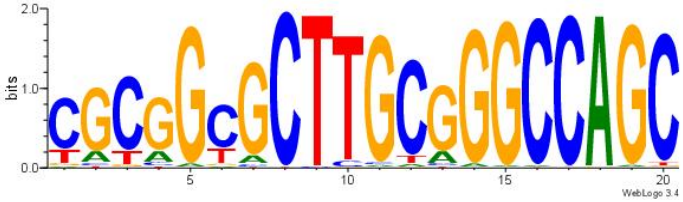

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 12
Similarity score: 0.104152

Alignment:
CGGCGCTGMGCTCGATTTCT
--------ATGTGCWGTCCC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

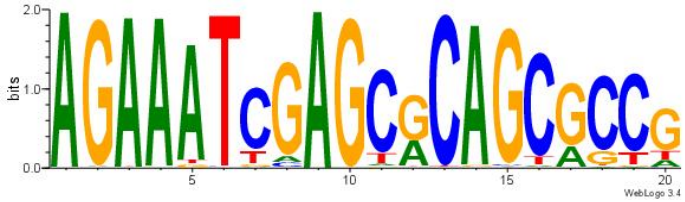

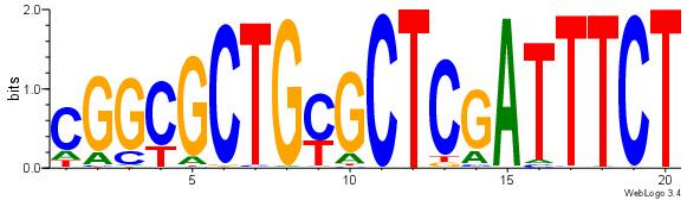

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.104232

Alignment:

```
ACTTTGGACTGTGGACTTTT
----GGGACWGCACAT----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

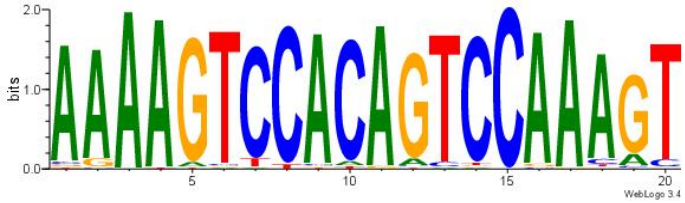

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

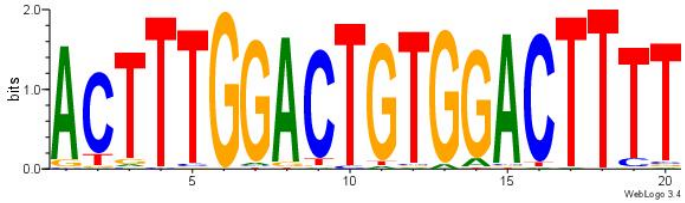

Dataset #:	1

Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.104547

Alignment:

```
CACTGCACTCCAGC
ATGTGCWGTCCC--
```

Original motif Consensus sequence: CACTGCACTCCAGC

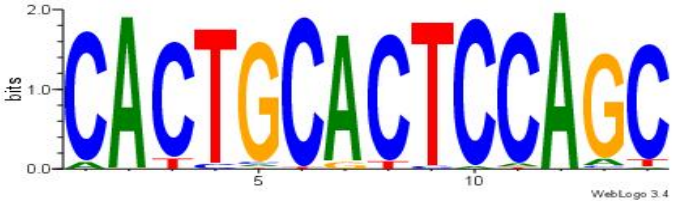

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

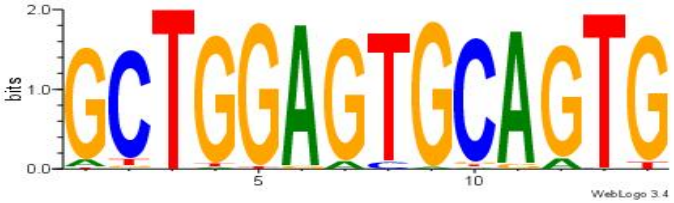

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.104698

Alignment:
GTGCCAGGCACTGTKCTARG
-----ATGTGCWGTCCC---

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

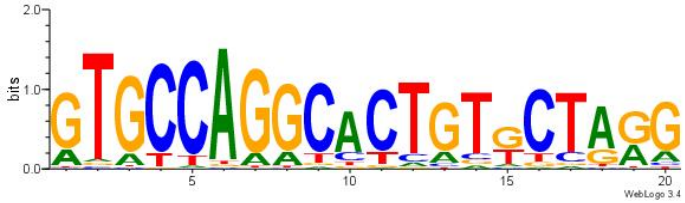

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

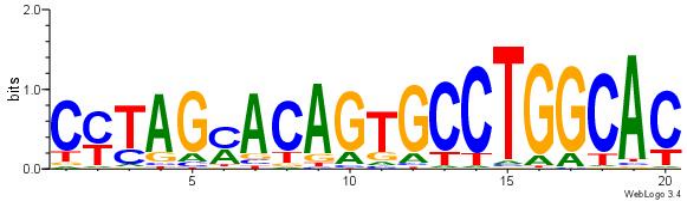

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.104897

Alignment:
CCTTTGACTCCATGTC
---GGGACWGCACAT-

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence:
CCTTTGACTCCATGTC

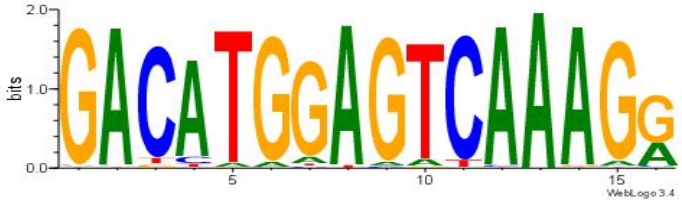

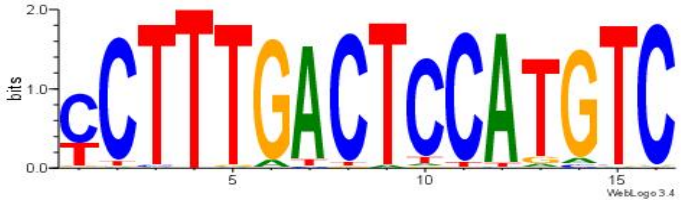

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.105281

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
--------ATGTGCWGTCCC
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

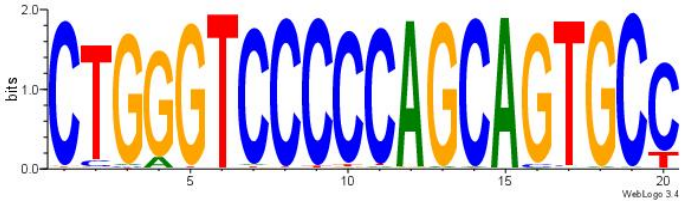

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

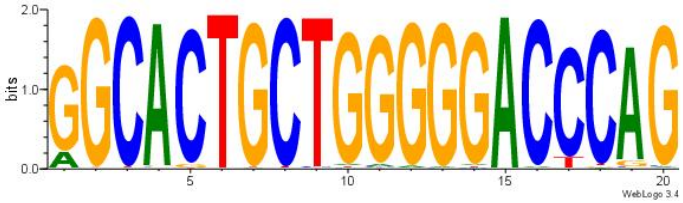

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.105443

Alignment:

```
CACCAGGAGATTATATCCCR
----GGGACWGCACAT----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

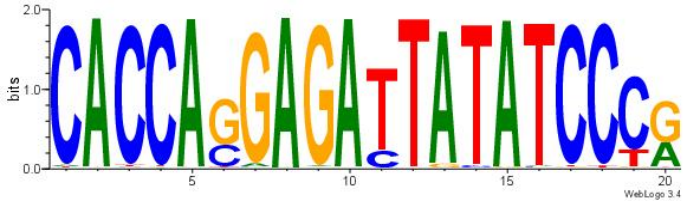

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

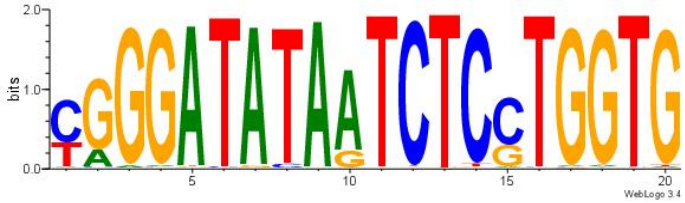

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.105904

Alignment:
AGAGCTCTGGCTGGCATCT
-------GGGACWGCACAT

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

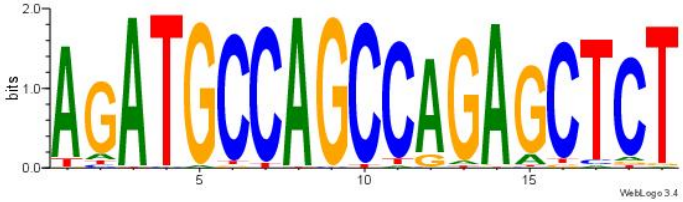

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

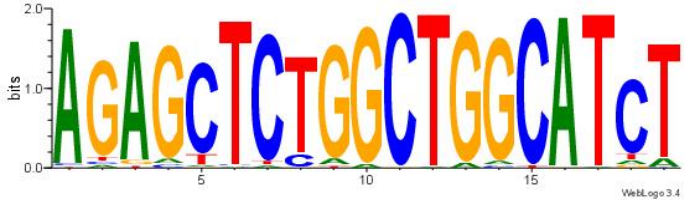

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.105985

Alignment:
AAATTACCCAGTCTCAGGTA
---ATGTGCWGTCCC-----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

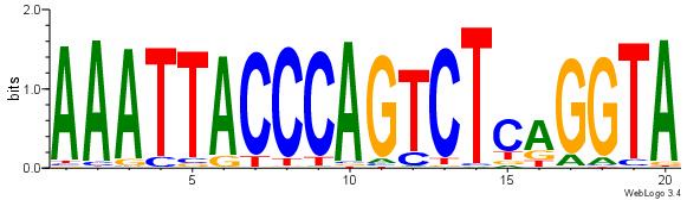

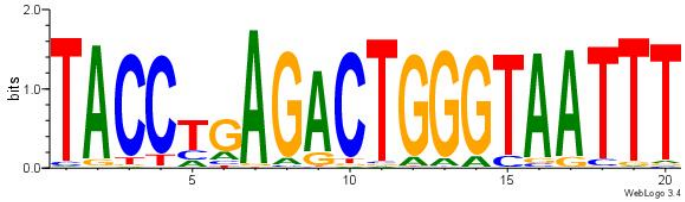

Dataset #: 1 Motif ID: 241 Motif name: Motif 241

Original motif Consensus sequence: GCACTGAGTGAACGA

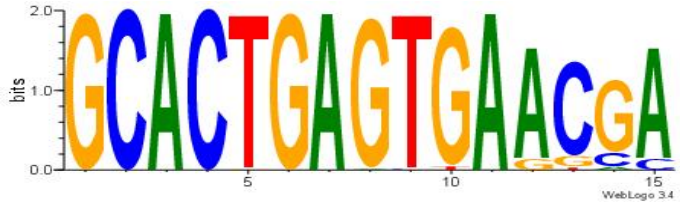

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

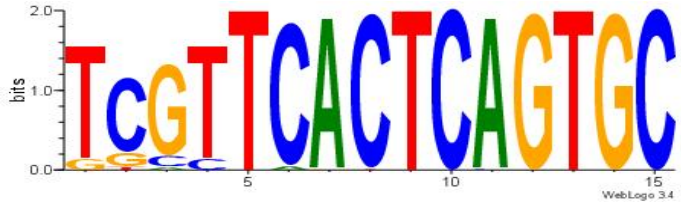

Best Matches for Motif ID 241 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.0442756

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-----GCACTGAGTGAACGA
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

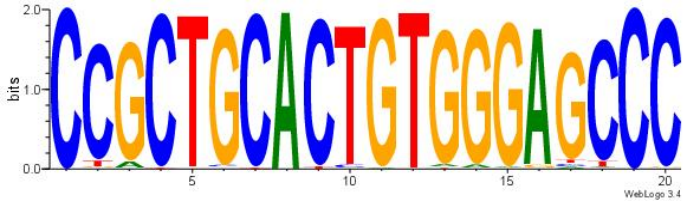

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

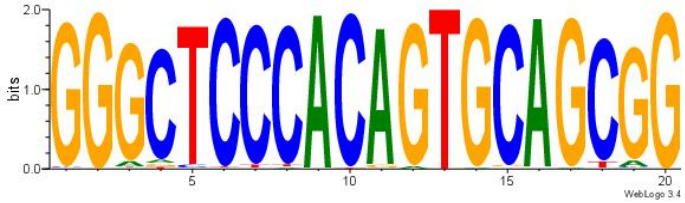

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.0478162

Alignment:

```
GGATCCACTGGGTGAAGCCA
----GCACTGAGTGAACGA-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

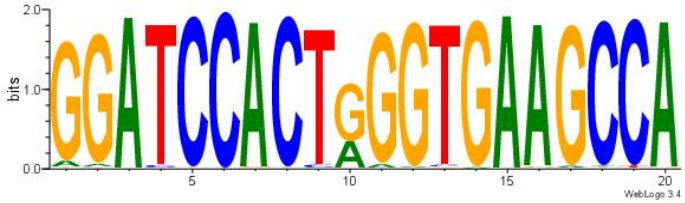

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

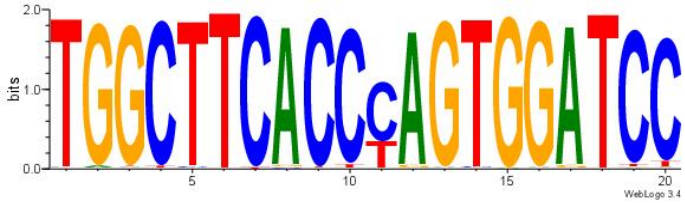

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0574241

Alignment:

```
CGTCGCTCACGCTGGGAGCT
--TCGTTCACTCAGTGC---
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

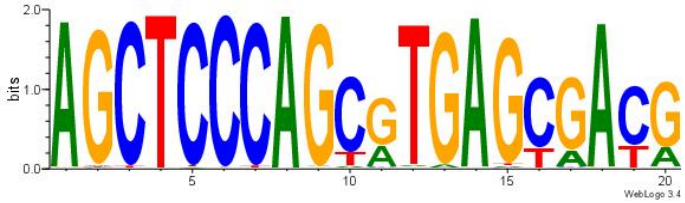

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

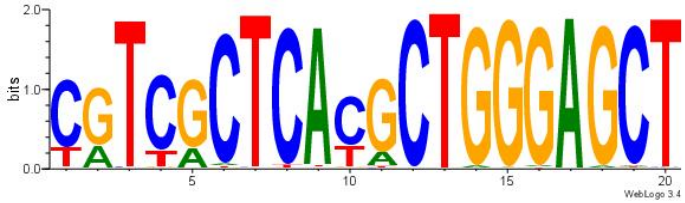

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.0588064

Alignment:
CCCMKGGCACCCTCAGTCCT
----TCGTTCACTCAGTGC-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

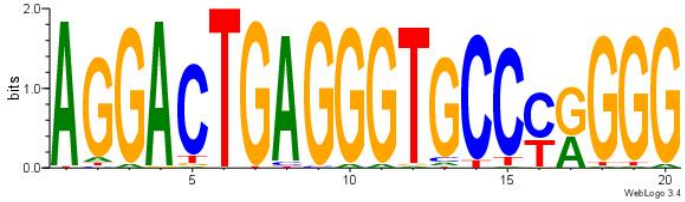

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

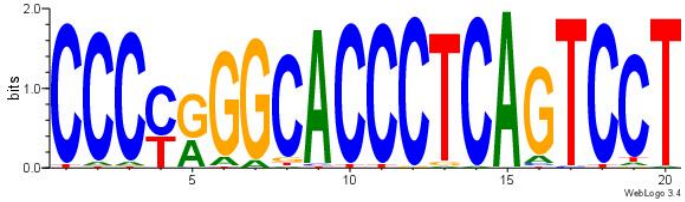

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.0672559

Alignment:
AGACAGTGGGYGCAGGHCA
--GCACTGAGTGAACGA--

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

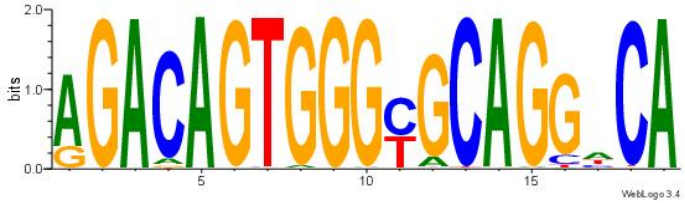

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

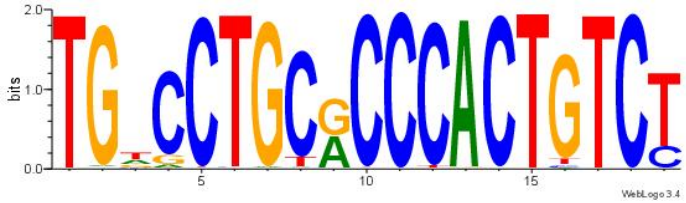

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0675667

Alignment:

```
GACATGGAGTCAAAGG
-GCACTGAGTGAACGA
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

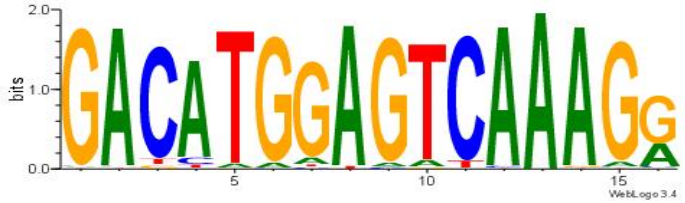

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

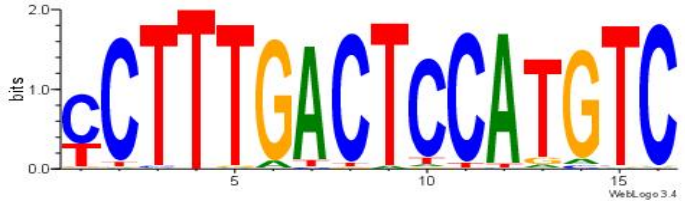

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0698424

Alignment:

```
AAAGAGAGTCAGCGAAG
GCACTGAGTGAACGA--
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

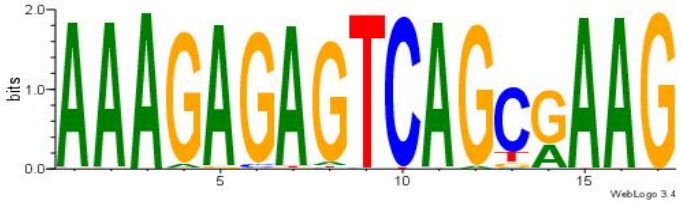

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

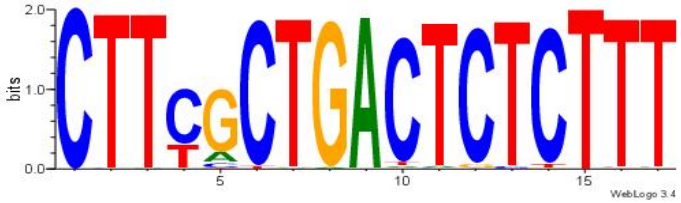

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 15
Similarity score: 0.0764445

Alignment:
AAGCTGAGGGAGCCGGCTCC
GCACTGAGTGAACGA-----

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

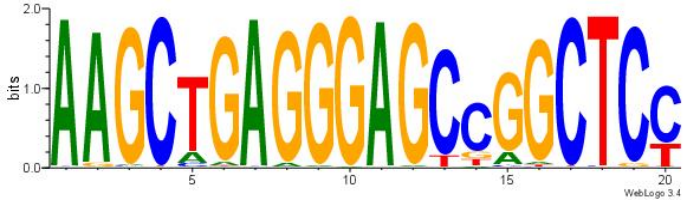

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

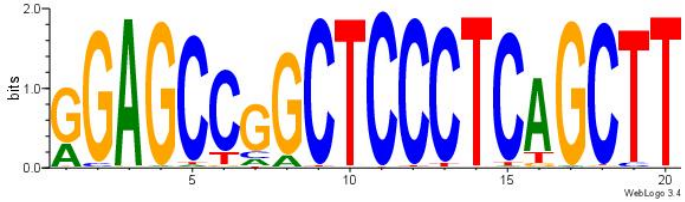

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.0769569

Alignment:
AGTAGGTGCTCARTAAATRB
-----GCACTGAGTGAACGA

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

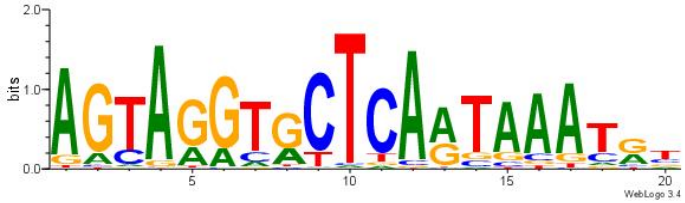

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

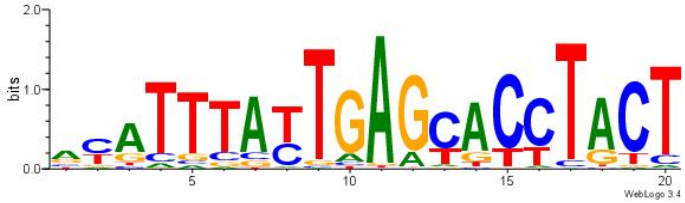

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0776461

Alignment:

```
GGCACTGCTGGGGGACCCAG
-GCACTGAGTGAACGA----
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

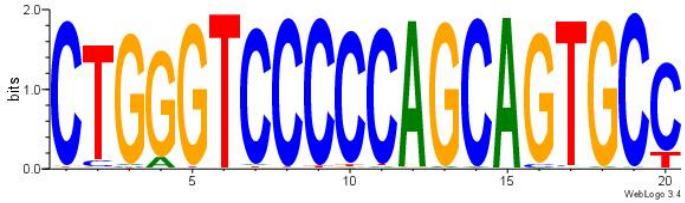

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

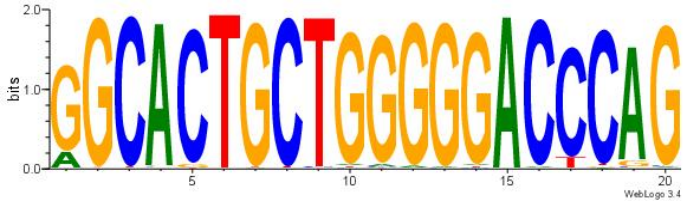

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0814754

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-GCACTGAGTGAACGA----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

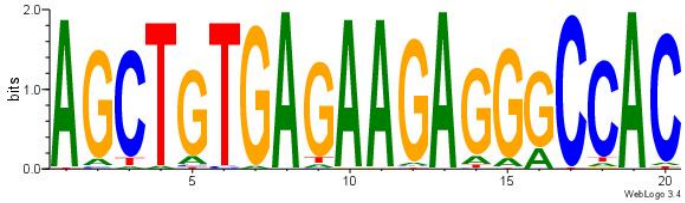

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

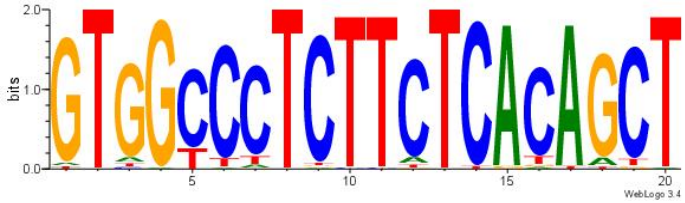

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 15
Similarity score: 0.0817003

Alignment:
TTGGTAGGATCCGTGATGCC
-TCGTTCACTCAGTGC----

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

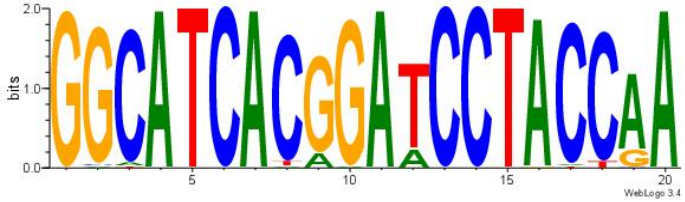

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

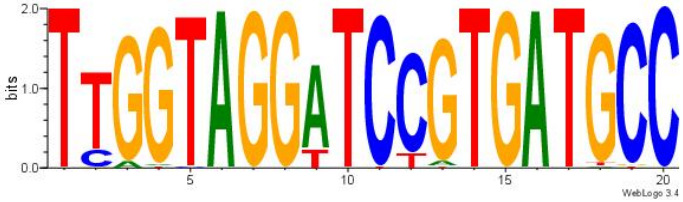

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.0830856

Alignment:
AGTTCCGGGTGGGCGTGGG
-GCACTGAGTGAACGA---

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

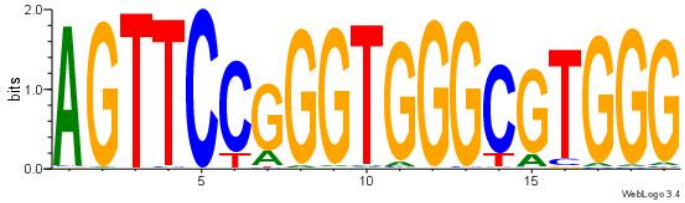

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

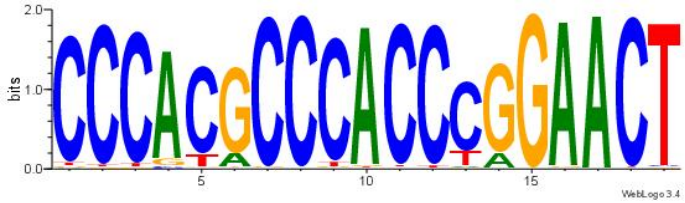

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0834558

Alignment:

```
CTGGCCCTCAATGGTTAAAC
---GCACTGAGTGAACGA--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

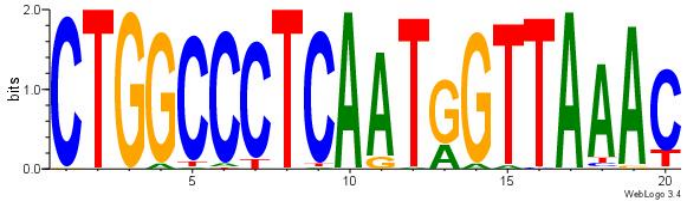

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

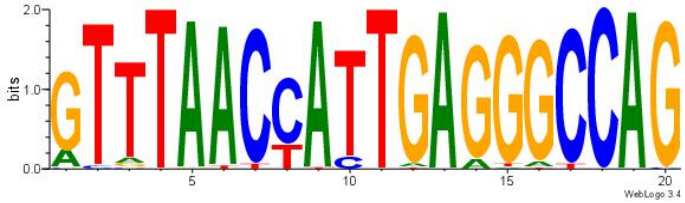

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0834891

Alignment:

```
GAATACCTCCTGAAGGACCT
---GCACTGAGTGAACGA--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

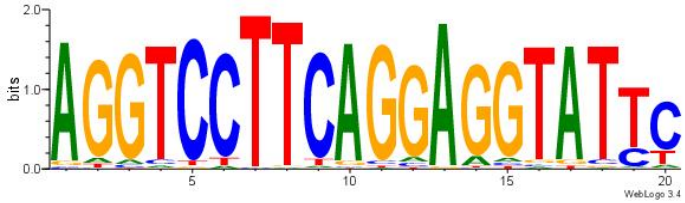

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

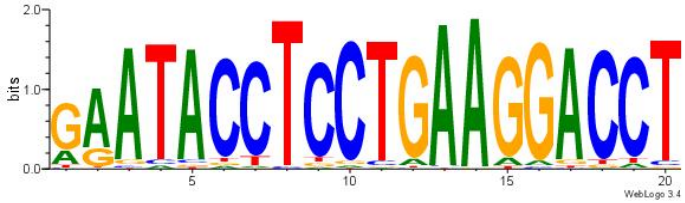

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.0842661

Alignment:
TGGATGGATGGATGGAT
-GCACTGAGTGAACGA-

Original motif Consensus sequence: ATCCATCCATCCATCCA

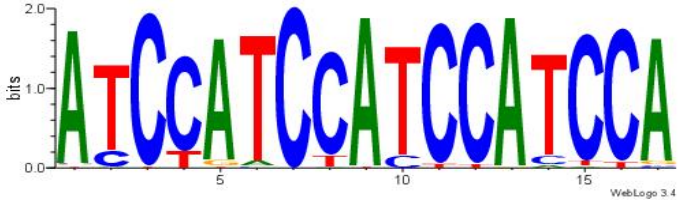

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.0862113

Alignment:
GAGAGAGAGAGAGAGAGAGA
-----GCACTGAGTGAACGA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

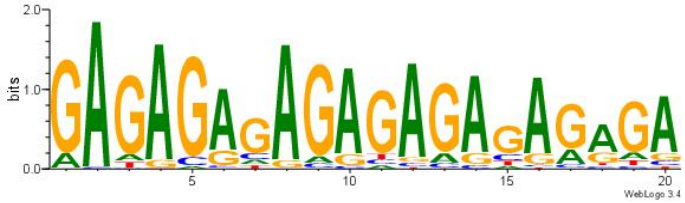

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

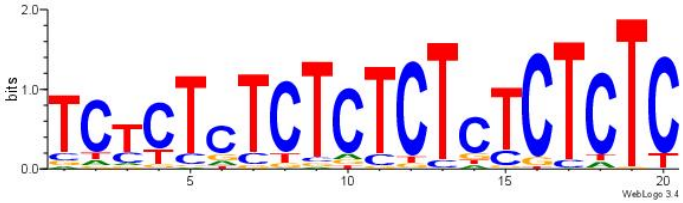

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0864725

Alignment:

```
ACTTTCAGGCATAACA
TCGTTCACTCAGTGC-
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

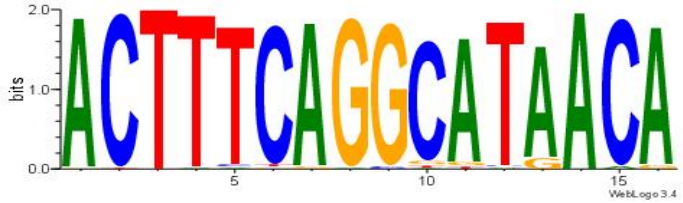

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

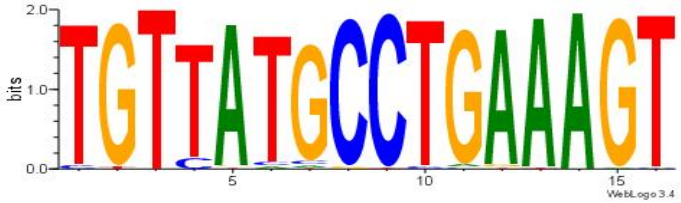

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0870141

Alignment:

```
GCTGCARTCTCGGCACTTT
-GCACTGAGTGAACGA---
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

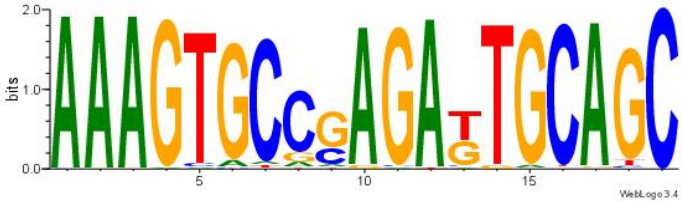

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

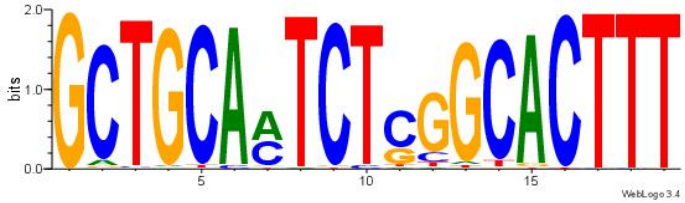

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.0873454

Alignment:
ACGCCCACGGAGTCTC
-TCGTTCACTCAGTGC

Original motif Consensus sequence: ACGCCCACGGAGTCTC

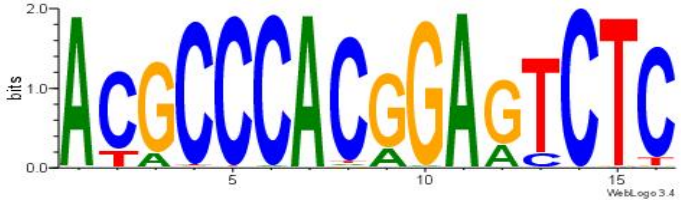

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

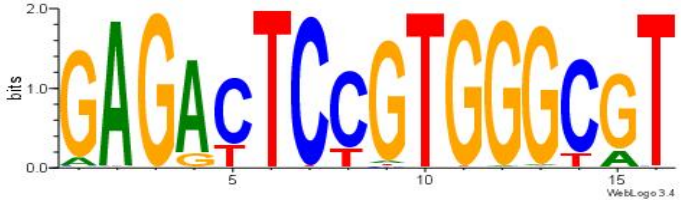

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.0875972

Alignment:
KACGGGCTTAARAAACGGC
-GCACTGAGTGAACGA---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

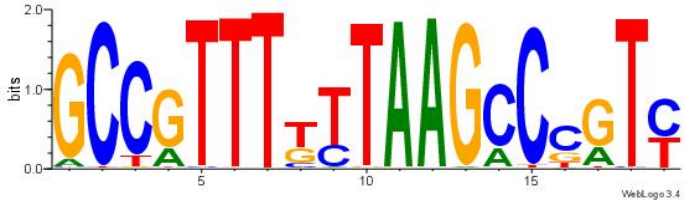

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

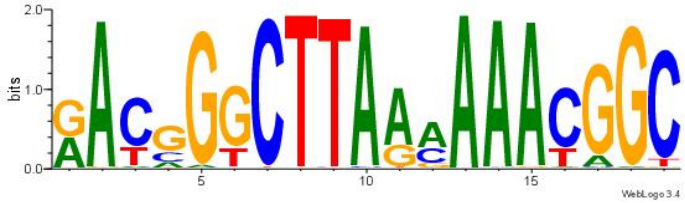

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0876702

Alignment:

```
TTMGTCCCAGAGGGGCACC
TCGTTCACTCAGTGC----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

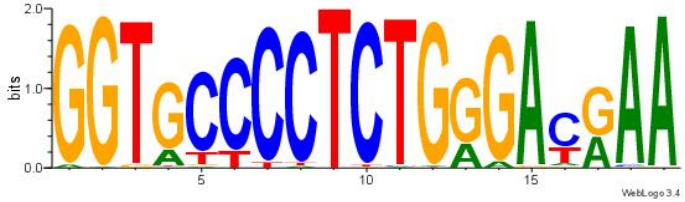

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

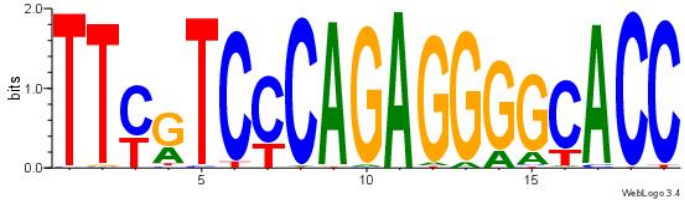

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0890216

Alignment:

```
GKCTGTACCCCCATTGTAT
--TCGTTCACTCAGTGC--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

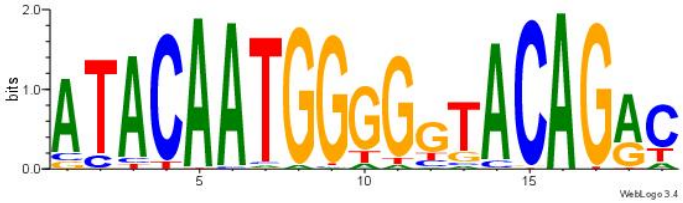

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

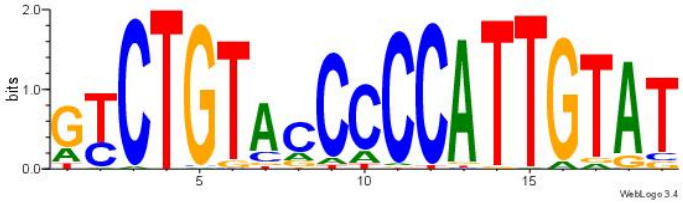

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.0903154

Alignment:
AGCAGYTTGGAAACACT
-GCACTGAGTGAACGA-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

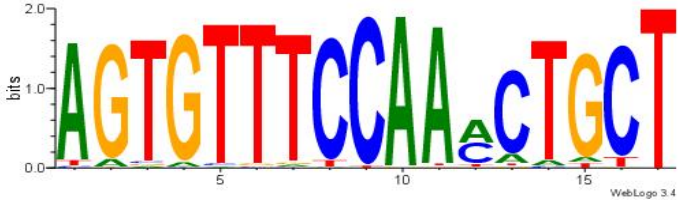

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

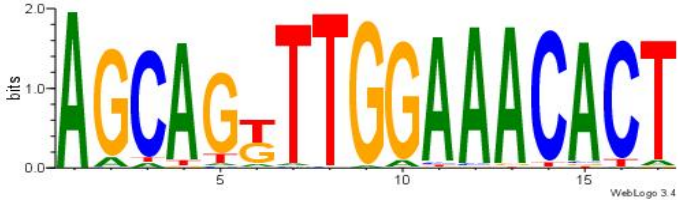

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.0903948

Alignment:
CTCATTTAATCCTCACAAC
---TCGTTCACTCAGTGC-

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

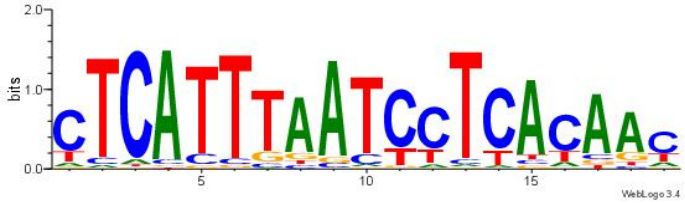

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

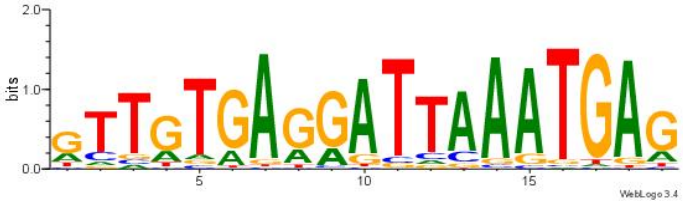

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0904463

Alignment:

```
GCACTCTGTMTCTAGCT
--GCACTGAGTGAACGA
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

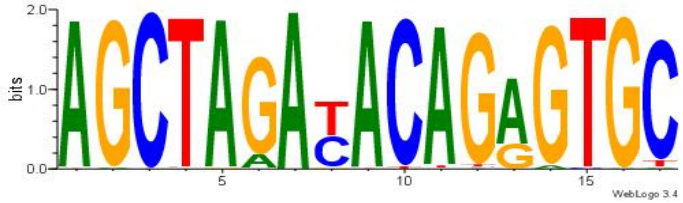

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

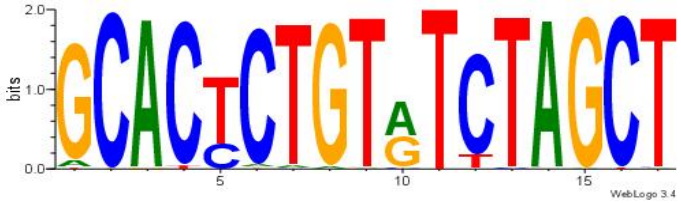

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0914272

Alignment:

```
GCCAGTCACAAAARGACAMA
-GCACTGAGTGAACGA----
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

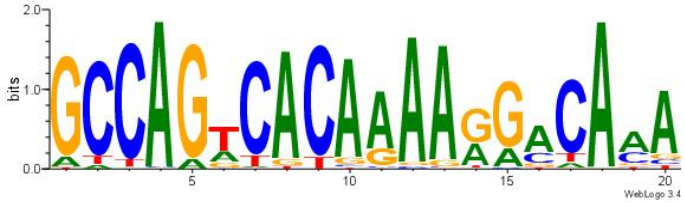

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

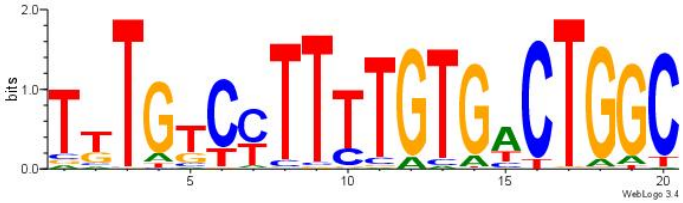

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 15
Similarity score: 0.0916592

Alignment:
AGGTTTGTTACATAGGTAWA
-TCGTTCACTCAGTGC----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

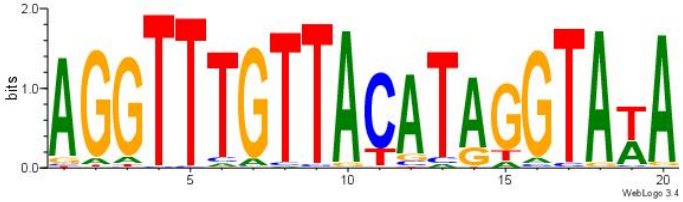

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

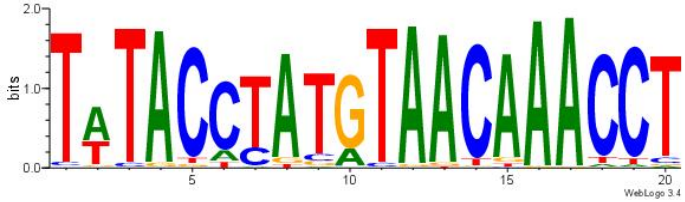

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.0930691

Alignment:
TCACKMGGGAAGCGCAAG
---GCACTGAGTGAACGA

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

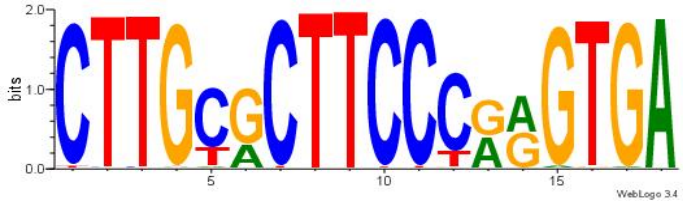

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

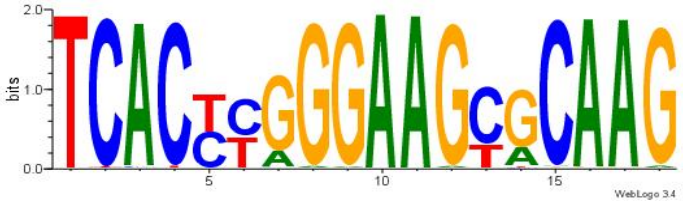

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0931528

Alignment:

```
GCTTCTGGTGAGGGC
GCACTGAGTGAACGA
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

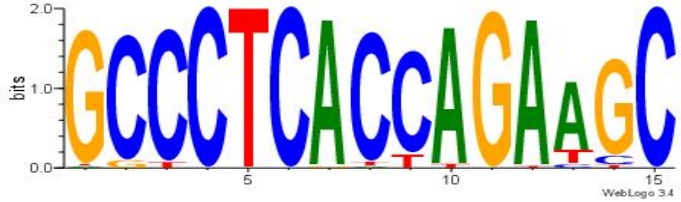

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

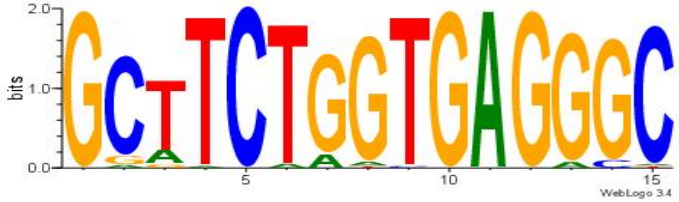

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0933708

Alignment:

```
GCTCTCAATTGGTCATT
GCACTGAGTGAACGA--
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

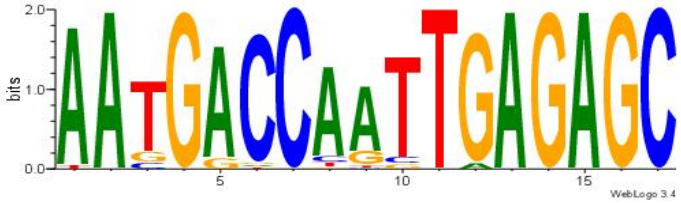

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

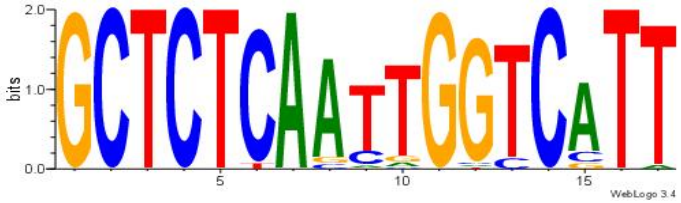

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 15
Similarity score: 0.093443

Alignment:
GGGAGGTGTCTCCCAGTCAG
----TCGTTCACTCAGTGC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

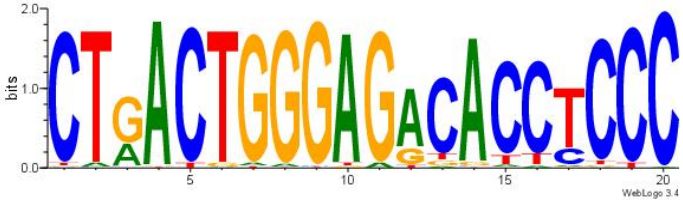

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

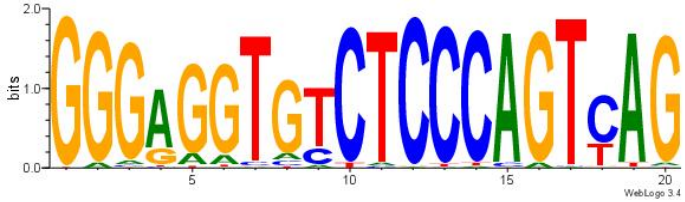

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.093581

Alignment:
CATTTGGGAGCCCATTGA
---TCGTTCACTCAGTGC

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

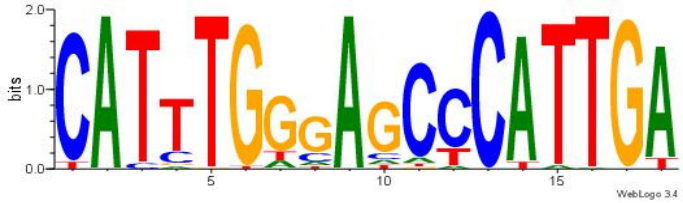

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

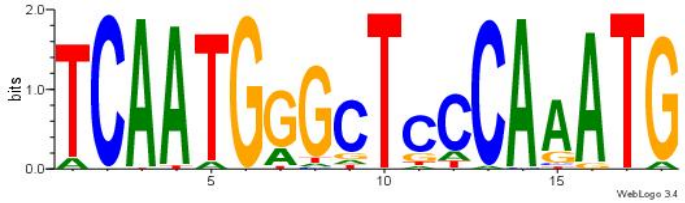

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0938691

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-GCACTGAGTGAACGA----
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

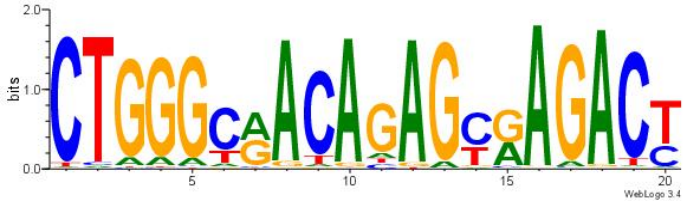

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

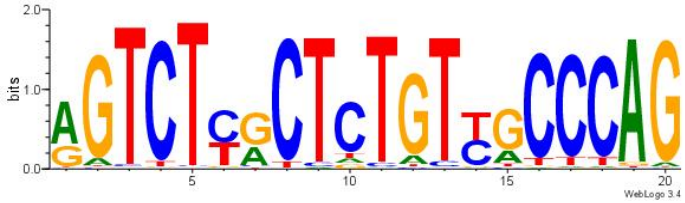

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.0942209

Alignment:

```
AGAGCCAAATCATGARTGAA
----GCACTGAGTGAACGA-
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

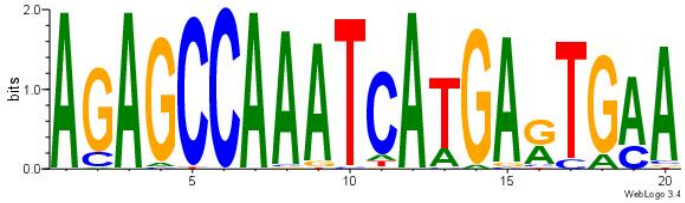

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

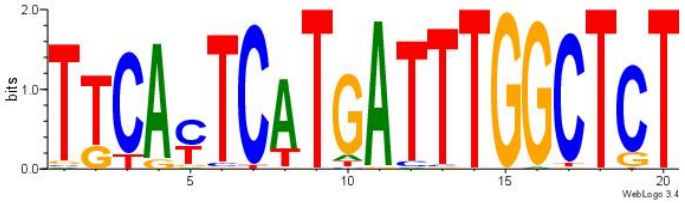

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.0944695

Alignment:
ARCTCCTGKSCTCAAGKGAT
---TCGTTCACTCAGTGC--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

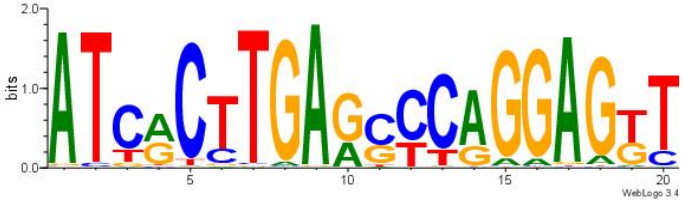

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

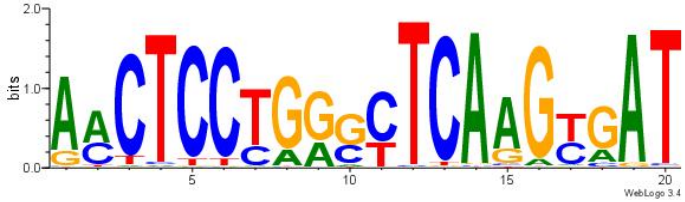

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.0947458

Alignment:
GGTGGGGGGGTCAGCCCCC
--TCGTTCACTCAGTGC--

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

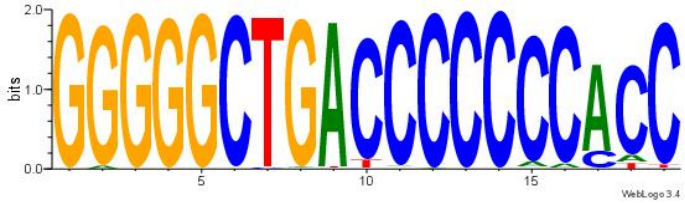

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

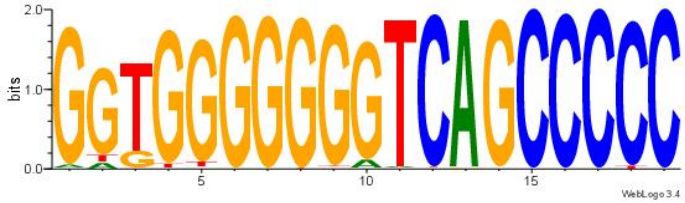

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0947476

Alignment:

```
CACCAGACTCAGGAGCCCAG
-GCACTGAGTGAACGA----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

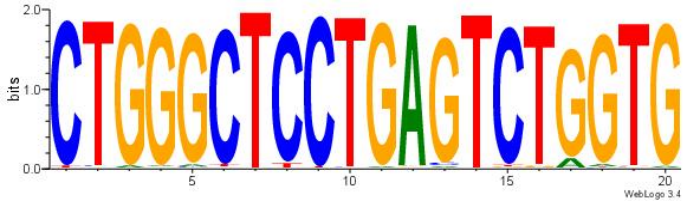

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

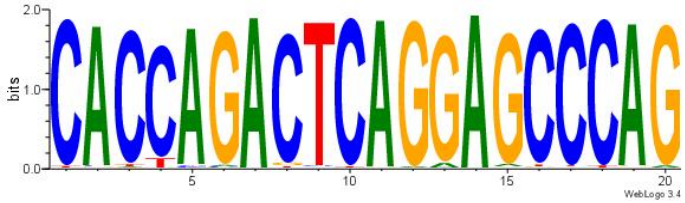

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0947972

Alignment:

```
CTGTTTGCCTGGGTATCA
-TCGTTCACTCAGTGC--
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

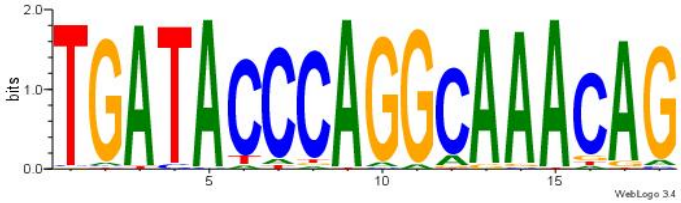

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

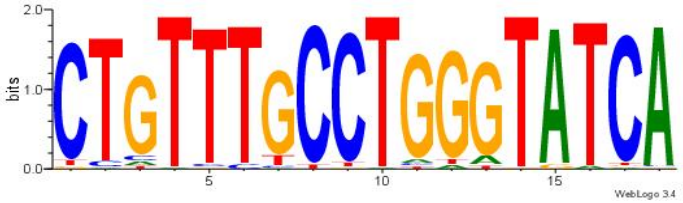

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.0948857

Alignment:
KCCGGGCCTTAGCTGCCTTC
-TCGTTCACTCAGTGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

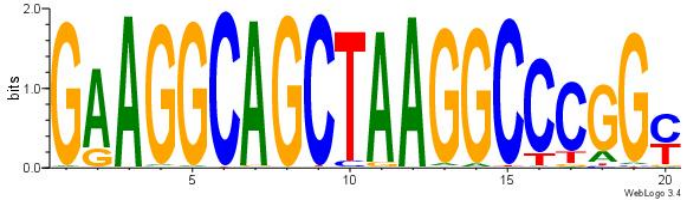

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

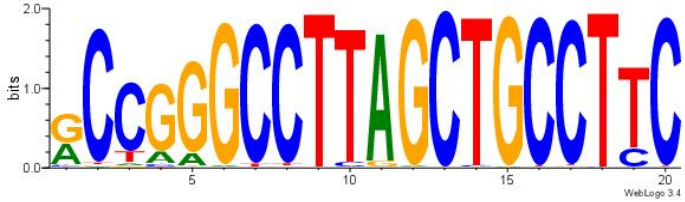

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.0952542

Alignment:
GCTCCACCCAGTTCGAGCTT
---GCACTGAGTGAACGA--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

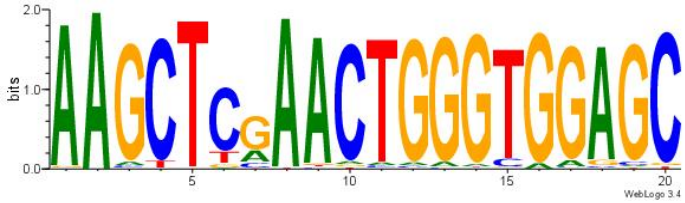

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

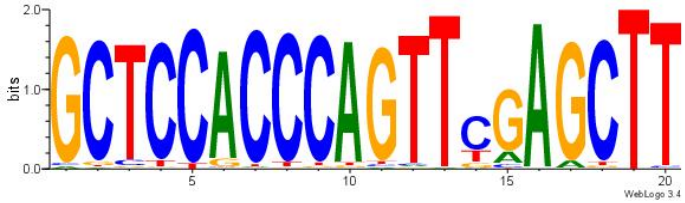

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0953179

Alignment:

```
AGGAGGAAGTCAATTTC
-GCACTGAGTGAACGA-
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

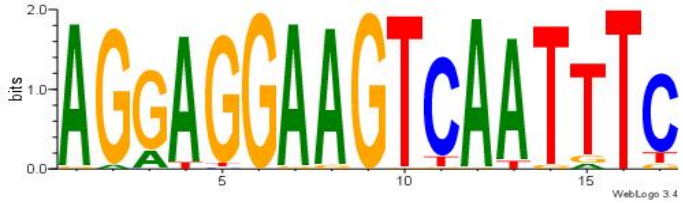

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

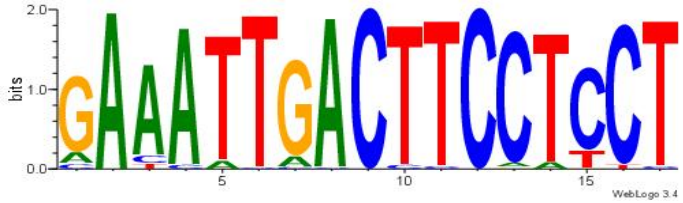

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0954847

Alignment:

```
GGGAGGAAGGGGACAC
-GCACTGAGTGAACGA
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

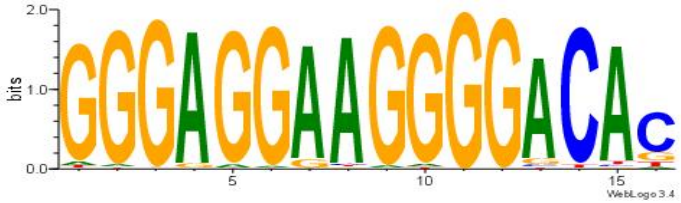

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

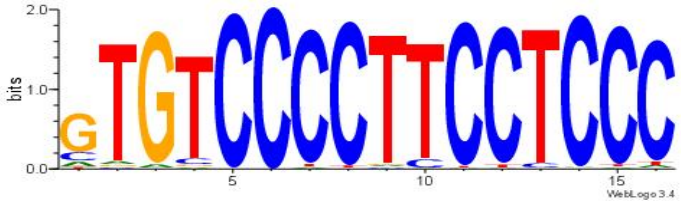

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.0956108

Alignment:
CACTTTCCAGACTGGGCA
--TCGTTCACTCAGTGC-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

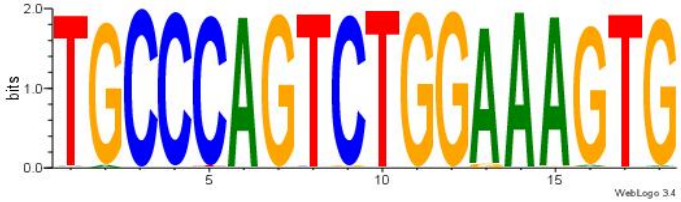

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

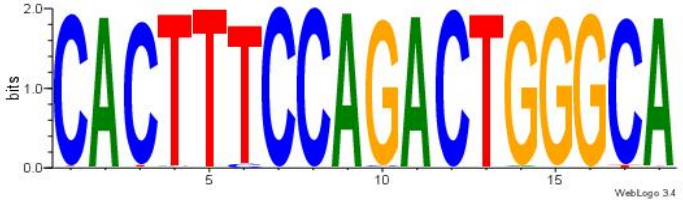

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.0960328

Alignment:
AGTTCTTAAAGATGGT
-GCACTGAGTGAACGA

Original motif Consensus sequence: AGTTCTTAAAGATGGT

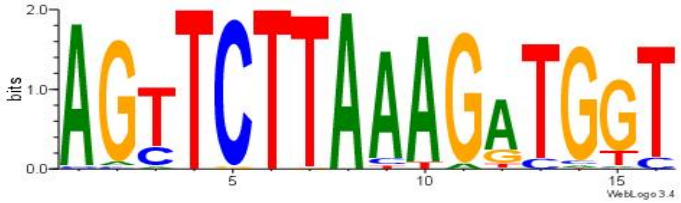

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

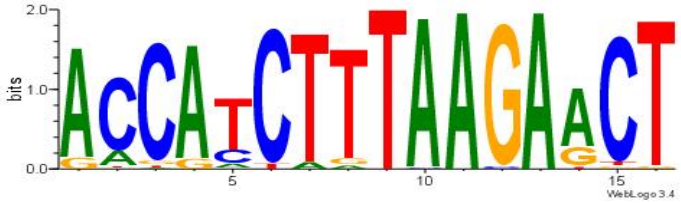

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.096278

Alignment:

```
GCCACCAMGCCMKGCTAAT
TCGTTCACTCAGTGC----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

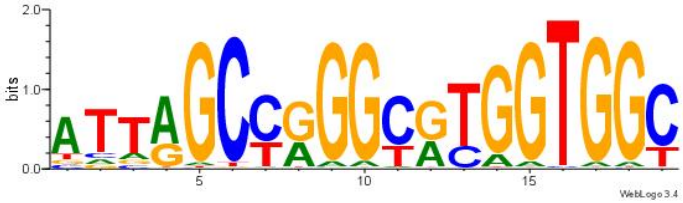

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

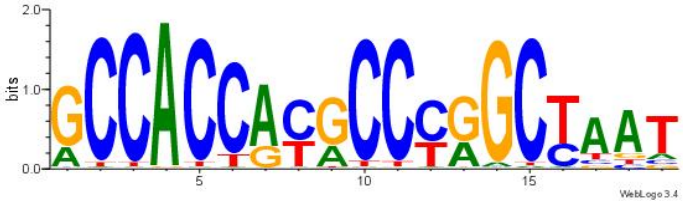

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0963466

Alignment:

```
GGCAATGCCTCGCCCTGCTT
----GCACTGAGTGAACGA-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

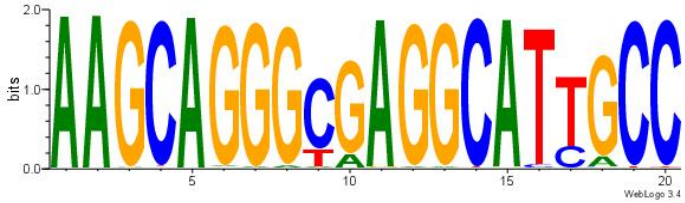

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

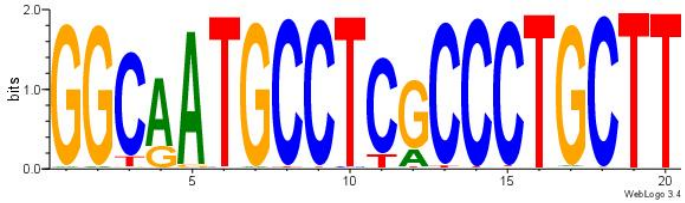

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 15
Similarity score: 0.0964052

Alignment:
AAATTAGGCCAATTAATAAC
----TCGTTCACTCAGTGC-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

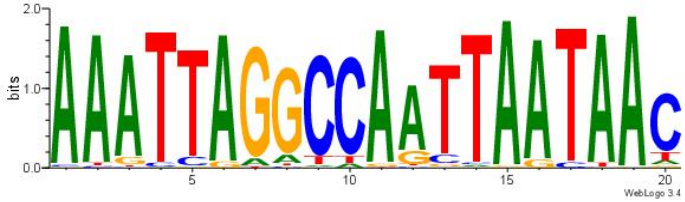

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 242
Motif name: Motif 242
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.0964785

Alignment:
CMCAGTTCACAATAGGGTT
--TCGTTCACTCAGTGC--

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

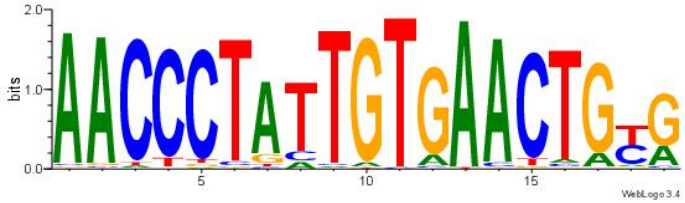

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

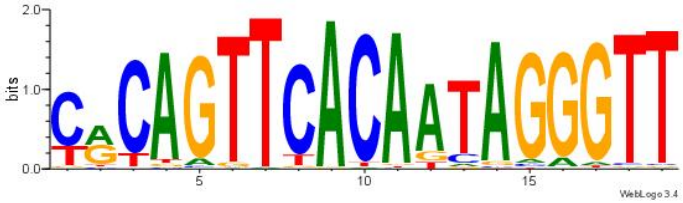

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0970575

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-GCACTGAGTGAACGA----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

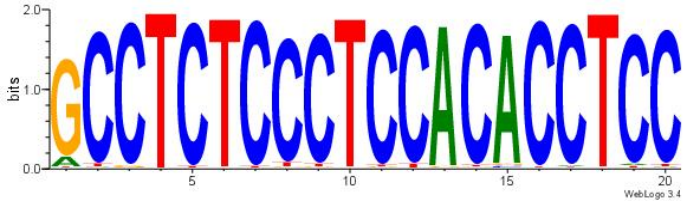

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

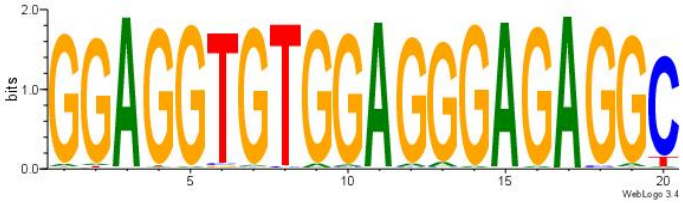

Dataset #: 1 **Motif ID: 242** **Motif name: Motif 242**

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

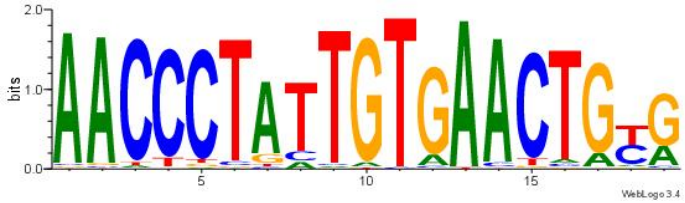

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

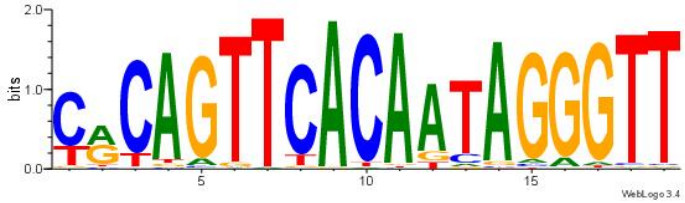

Best Matches for Motif ID 242 (Highest to Lowest)

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0985886

Alignment:

```
AACAACASACACTGGGGCCT
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

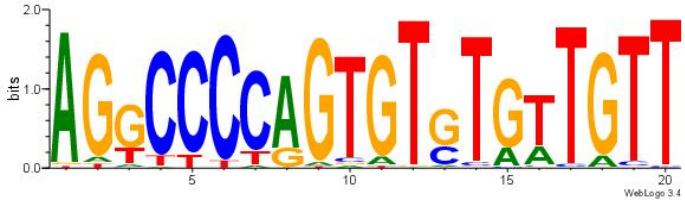

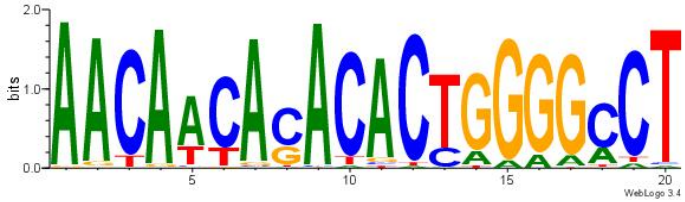

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.11357

Alignment:
ACACATCACAAAGCAGTTTC
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

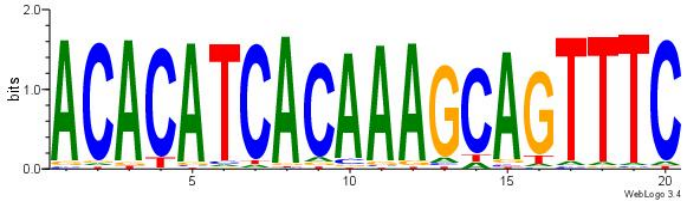

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

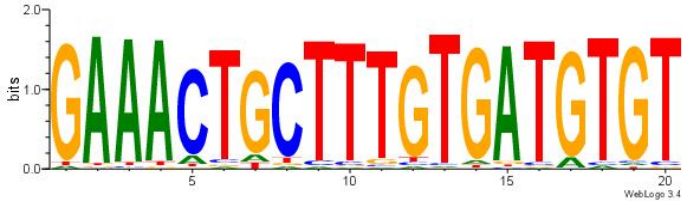

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.115902

Alignment:

```
GCAAAKGACATGATYTCATT
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

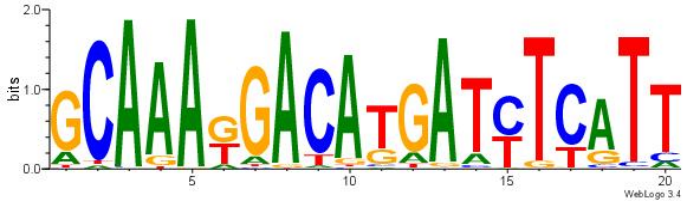

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

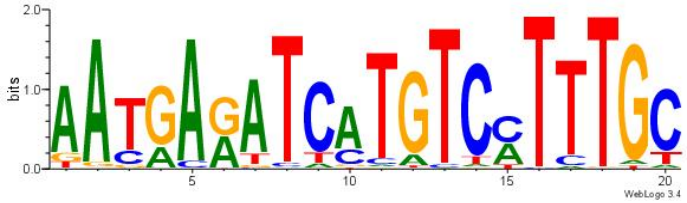

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.116379

Alignment:
AGCTCCCAGCGTGAGCGACG
-AACCCTATTGTGAACTGYG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

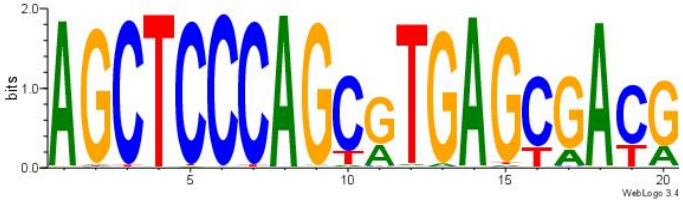

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

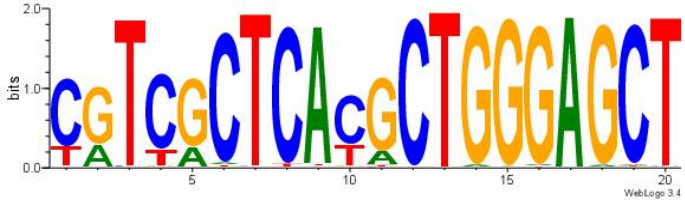

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.11749

Alignment:
ATTCAASATGAGATTTGGG
AACCCTATTGTGAACTGYG

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

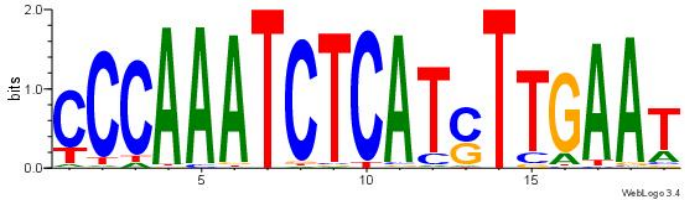

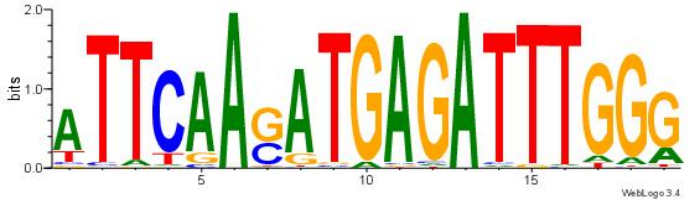

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.117982

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-AACCCTATTGTGAACTGYG
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

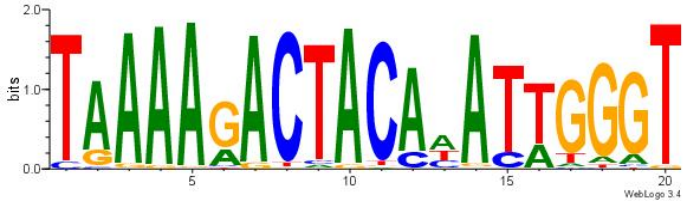

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

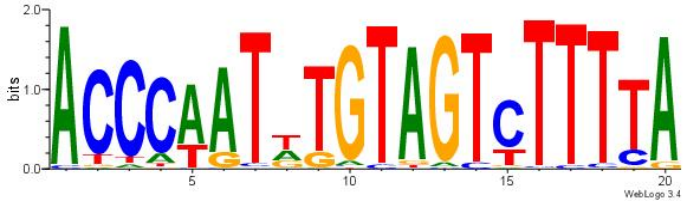

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.120208

Alignment:

```
AGTAGGTGCTCARTAAATRB
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

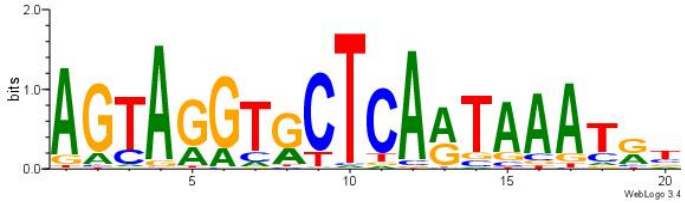

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

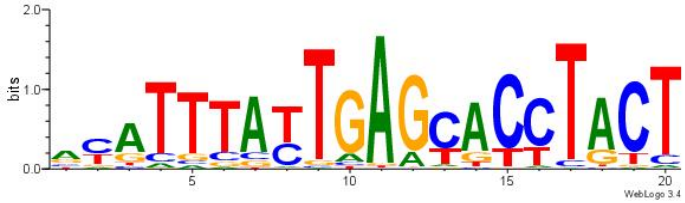

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.121421

Alignment:
GGTTCATCTCACTAGGGAGT
-CMCAGTTCACAATAGGGTT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

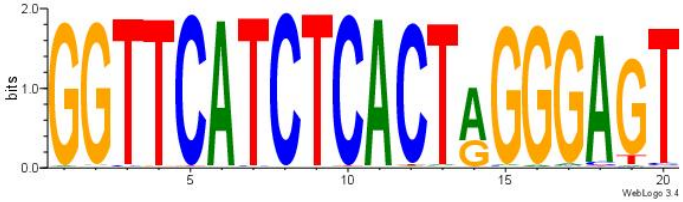

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

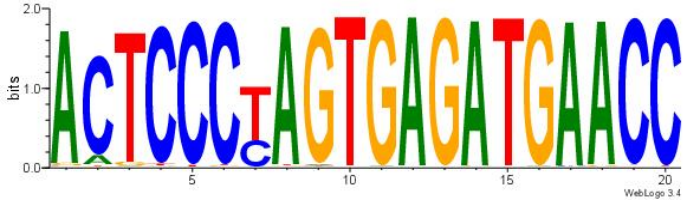

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.123059

Alignment:
ACTTTGGACTGTGGACTTTT
AACCCTATTGTGAACTGYG-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

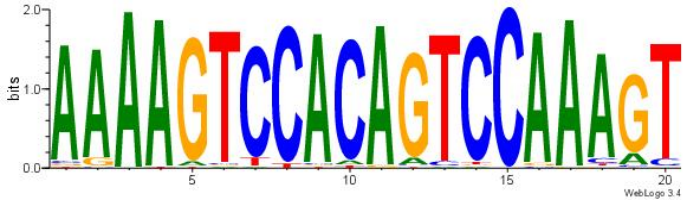

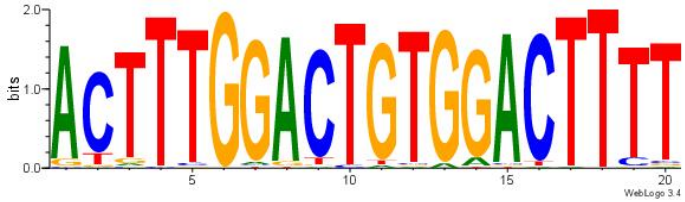

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.12523

Alignment:
KACGGGCTTAARAAACGGC
AACCCTATTGTGAACTGYG

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

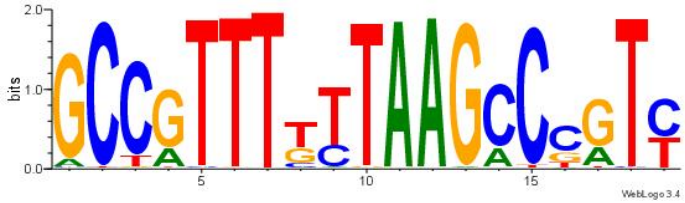

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

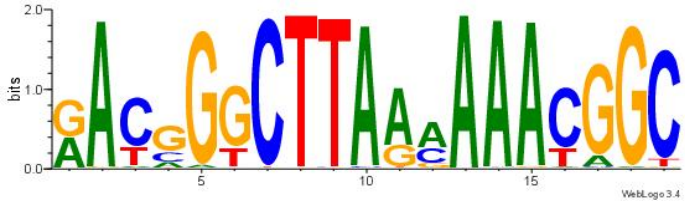

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.125829

Alignment:

```
AGAGCCAAATCATGARTGAA
-AACCCTATTGTGAACTGYG
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

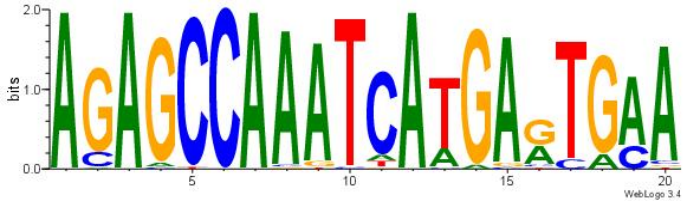

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

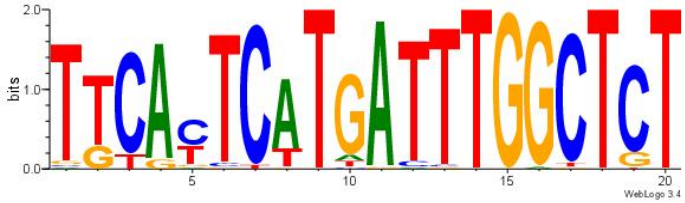

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.126286

Alignment:
CTCCAGKTMCATCCATGTTG
-CMCAGTTCACAATAGGGTT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

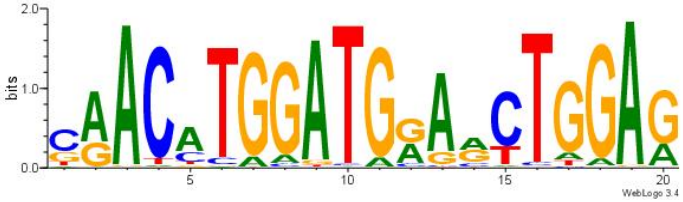

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

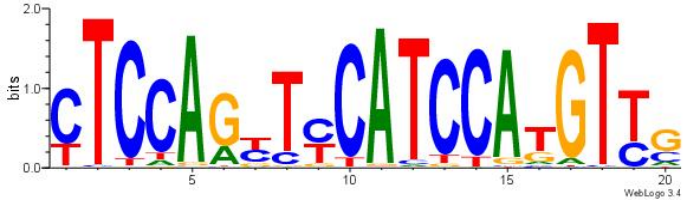

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.126496

Alignment:
GCACATGTAYCCYAGAACTT
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

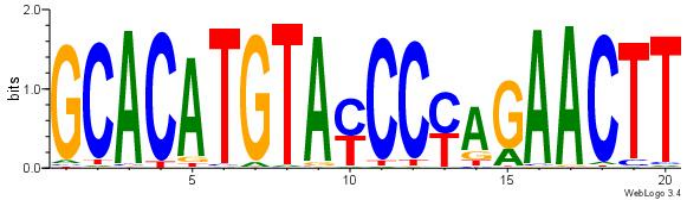

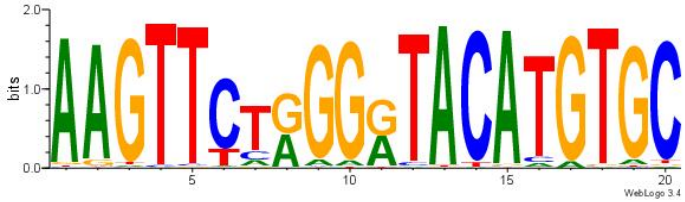

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127431

Alignment:

```
CCTAGATTTCAGARGATGT
CMCAGTTCACAATAGGGTT
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

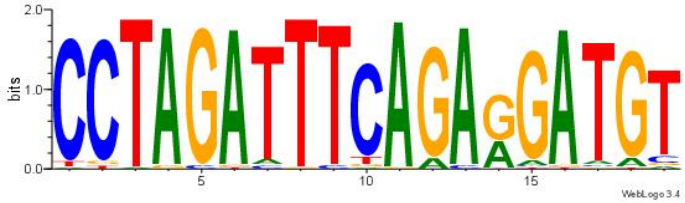

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

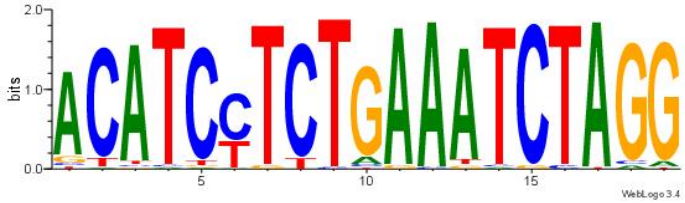

Dataset #: 1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.128173

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
AACCCTATTGTGAACTGYG-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

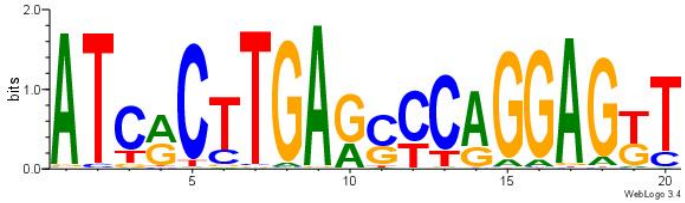

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

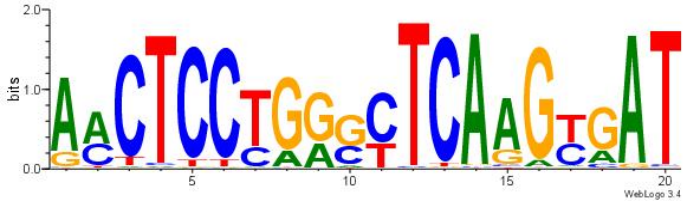

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.128759

Alignment:
CMTAGYACAGTGCCTGGCAC
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

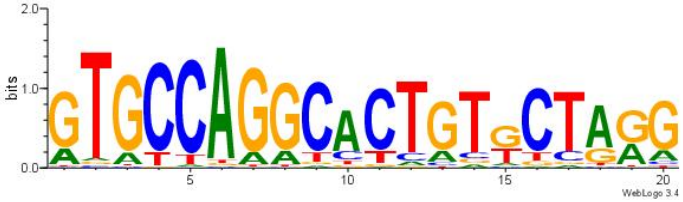

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

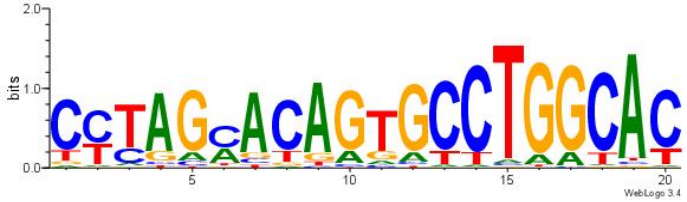

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.129001

Alignment:
CCCMKGGCACCCTCAGTCCT
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

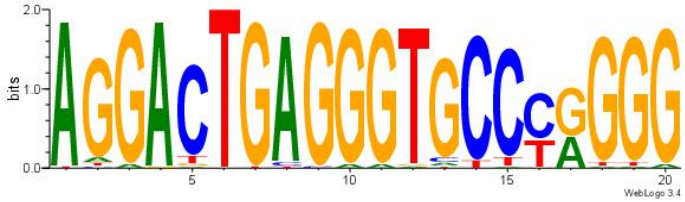

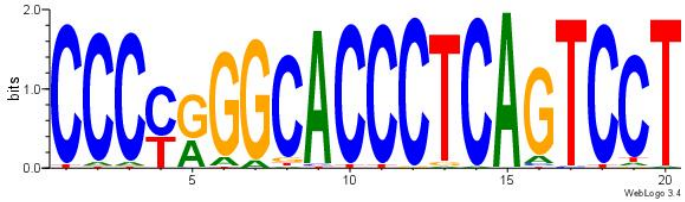

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130678

Alignment:

```
KKCACCTTGATCTTGGACTT
-CMCAGTTCACAATAGGGTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

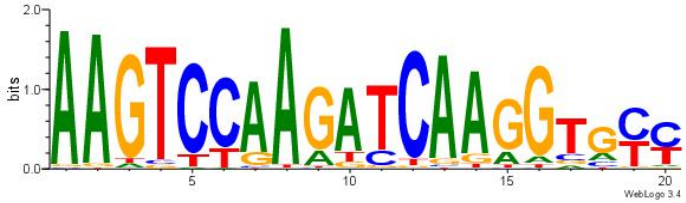

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

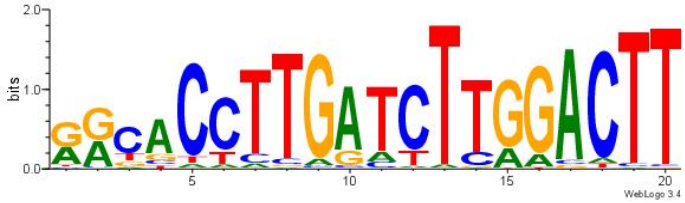

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131575

Alignment:

```
CTCATTTAATCCTCACAAC
CMCAGTTCACAATAGGGTT
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

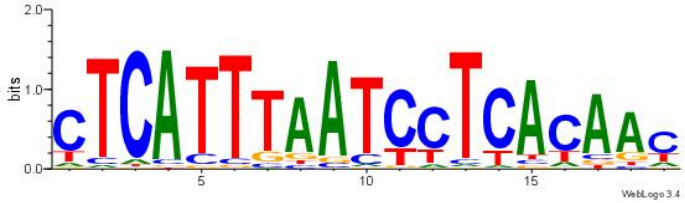

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

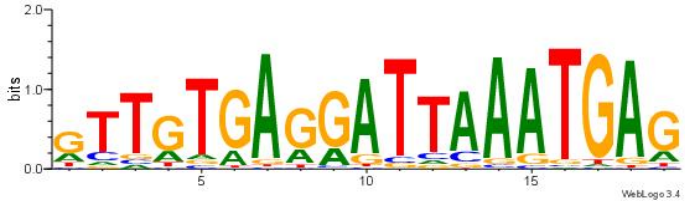

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.13225

Alignment:
AAGACCTTCCAGTGGGACAA
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

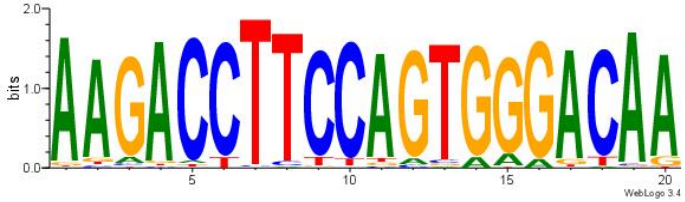

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

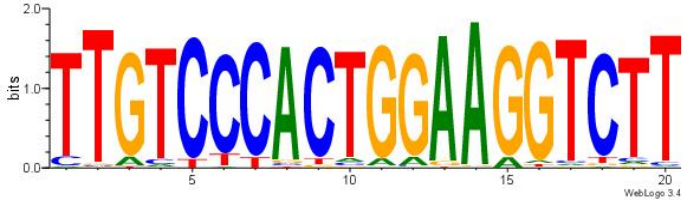

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.133526

Alignment:
GCCAATTTCTCCCATTTGGA
-CMCAGTTCACAATAGGGTT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

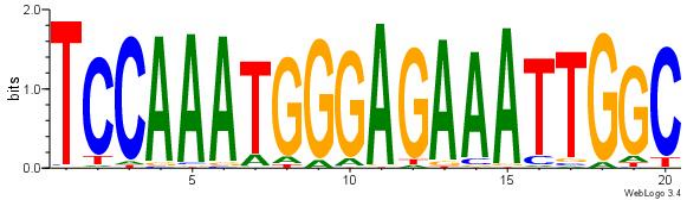

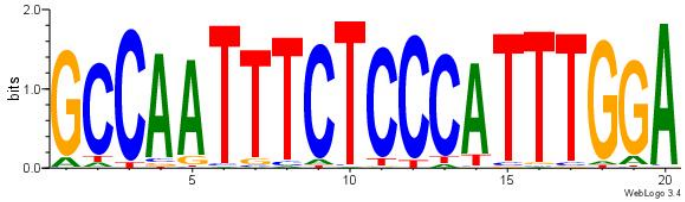

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133988

Alignment:

```
AAAMAMMKMATGTTCTCACT
-AACCCTATTGTGAACTGYG
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

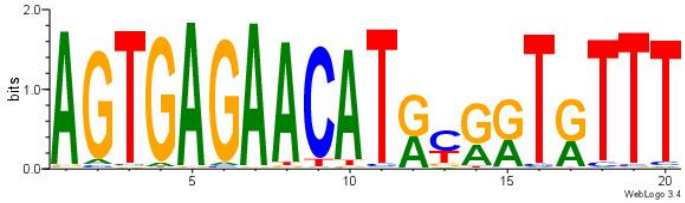

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

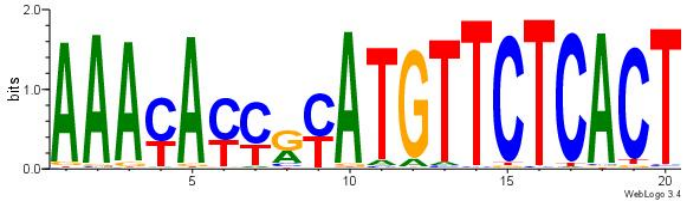

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.137168

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
-AACCCTATTGTGAACTGYG
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

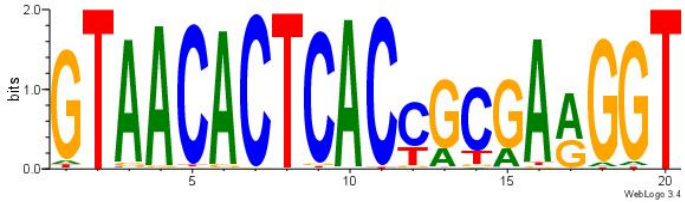

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

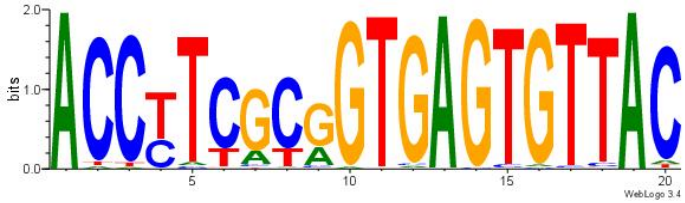

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.137387

Alignment:
CAAGTTGACACATAAAATTA
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

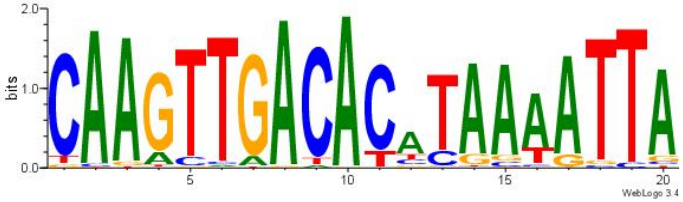

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

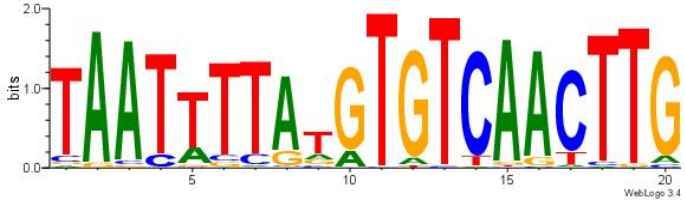

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137845

Alignment:
AAGCTCGAACTGGGTGGAGC
AACCCTATTGTGAACTGYG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

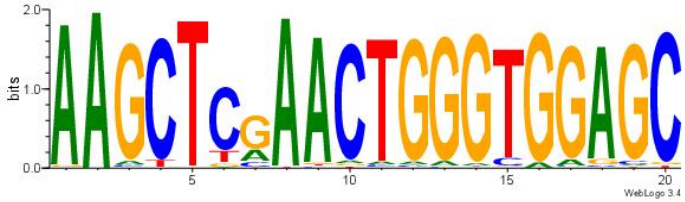

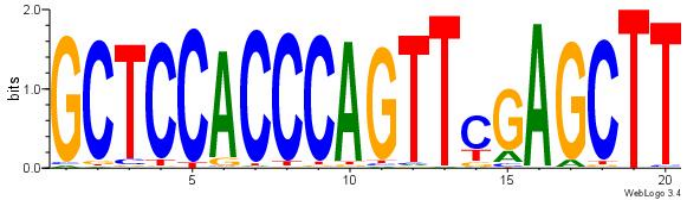

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.138365

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-CMCAGTTCACAATAGGGTT
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

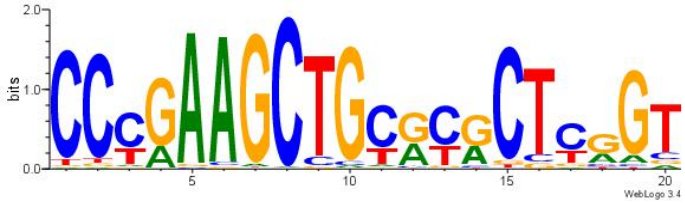

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

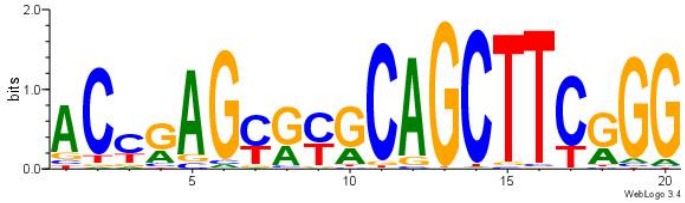

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138842

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

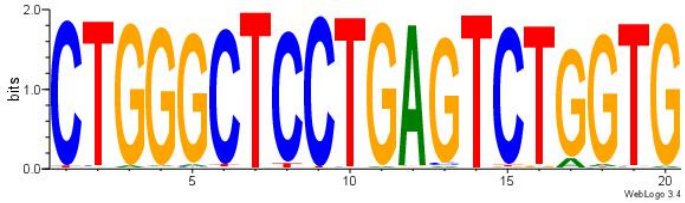

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

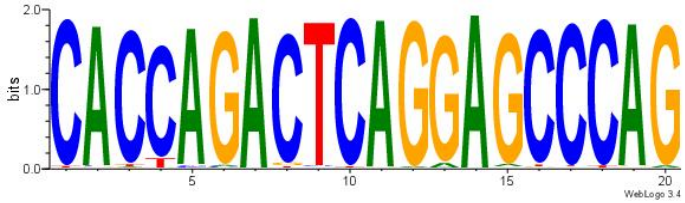

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.139107

Alignment:
GCGMGCGGGAACCGGGGCT
CMCAGTTCACAATAGGGTT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

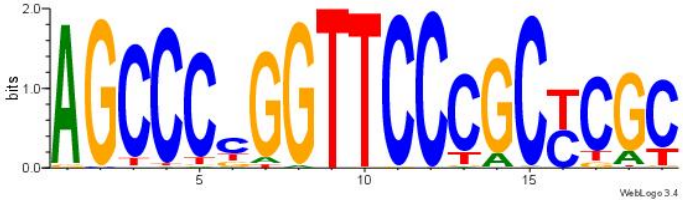

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

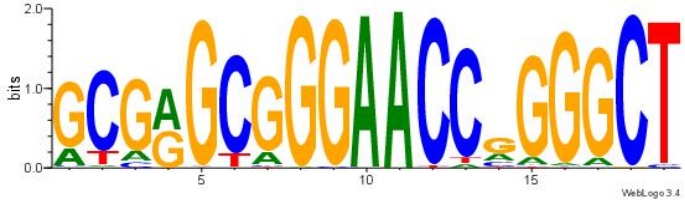

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139675

Alignment:
CAGCTACTCKTATACCCTTG
-AACCCTATTGTGAACTGYG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

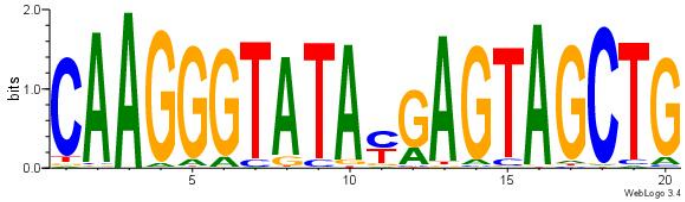

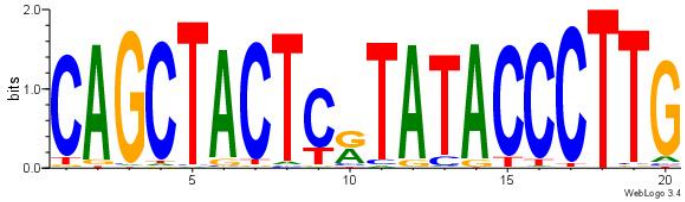

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.139956

Alignment:

```
TYTGTCMTTTTGTGACTGGC
AACCCTATTGTGAACTGYG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

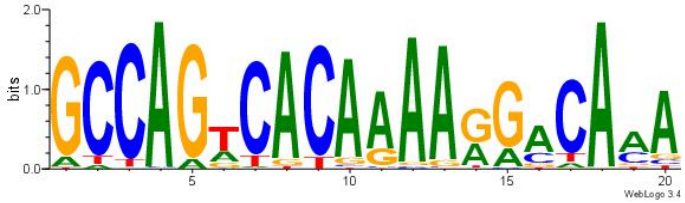

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

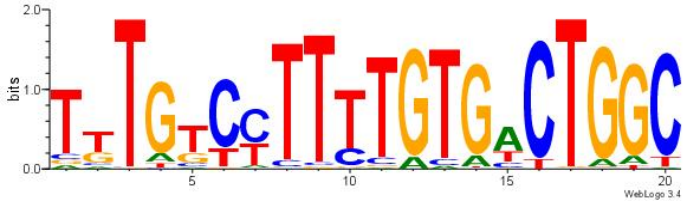

Dataset #: 1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140298

Alignment:

```
TACCTGAGACTGGGTAATTT
-AACCCTATTGTGAACTGYG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

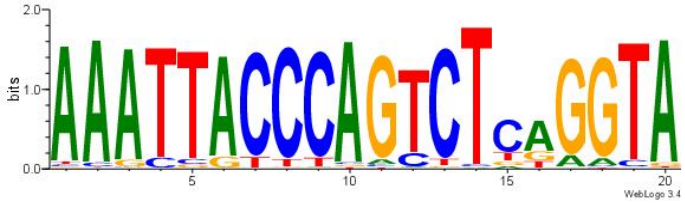

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

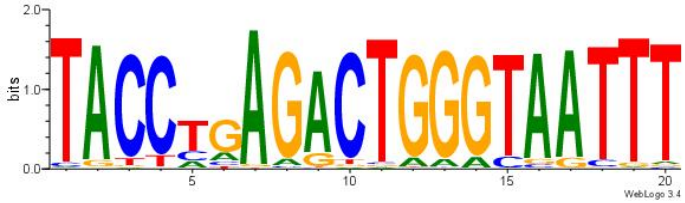

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.140774

Alignment:
MGGGATATAATCTCCTGGTG
-AACCCTATTGTGAACTGYG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

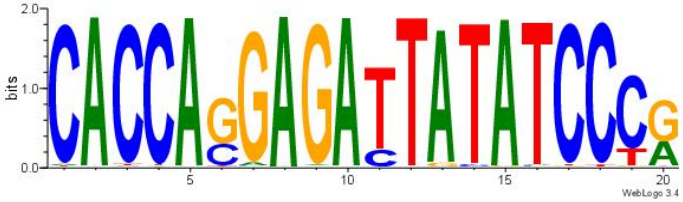

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

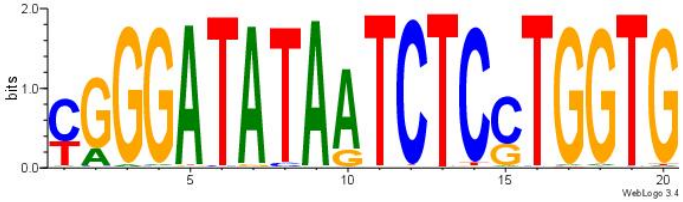

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.141382

Alignment:
AGCCYCTGGYAACCAYYAWT
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

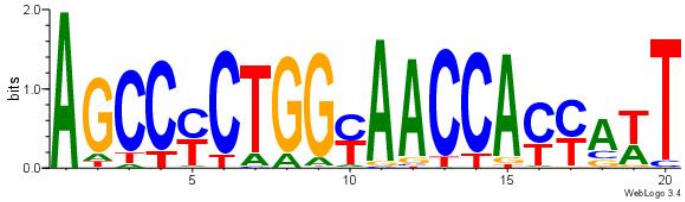

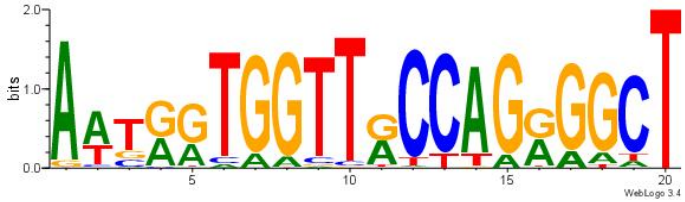

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.142166

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CMCAGTTCACAATAGGGTT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

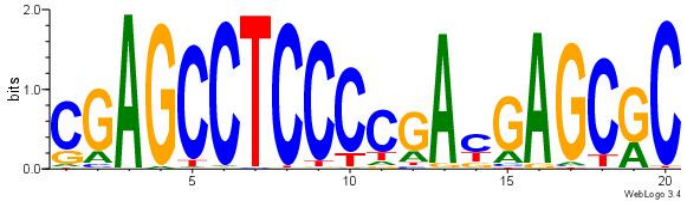

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

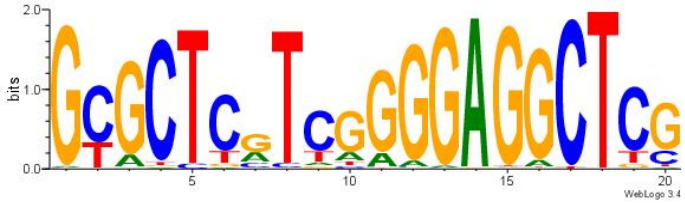

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.14236

Alignment:

```
ATGGAATAYTATTCAGCCAT
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

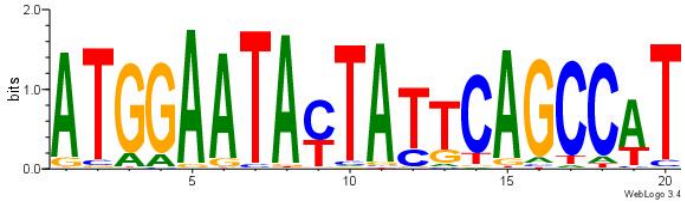

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

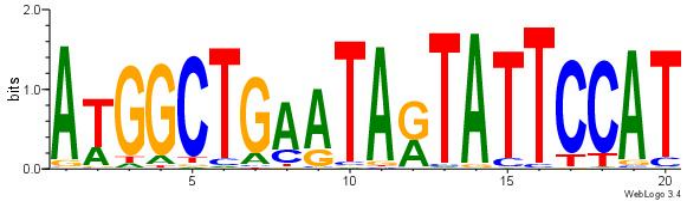

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.142979

Alignment:
CAAASCKGTCATAGGCCAT
CMCAGTTCACAATAGGGTT

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

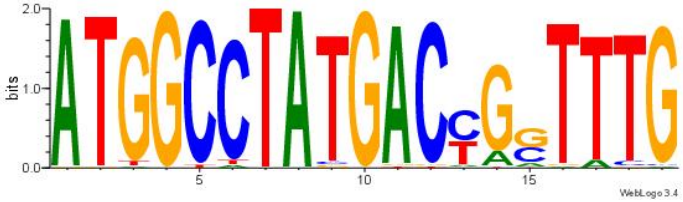

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

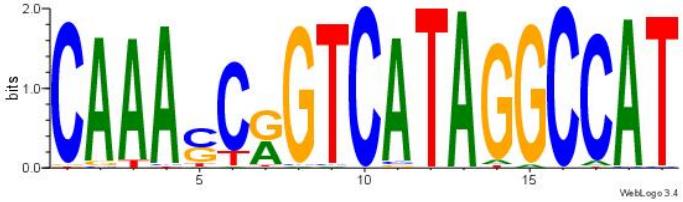

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.143019

Alignment:
ATCTCASAAATCACCACTA
AACCCTATTGTGAACTGYG

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

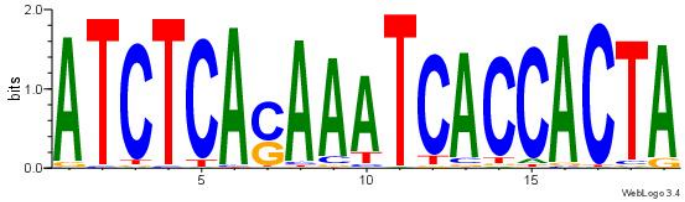

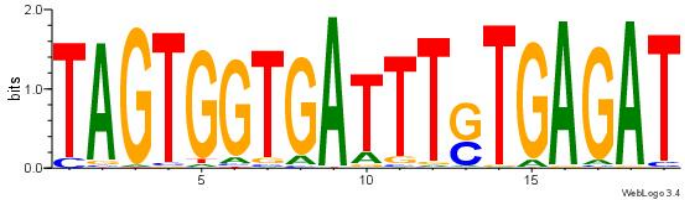

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.143691

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
AACCCTATTGTGAACTGYG-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

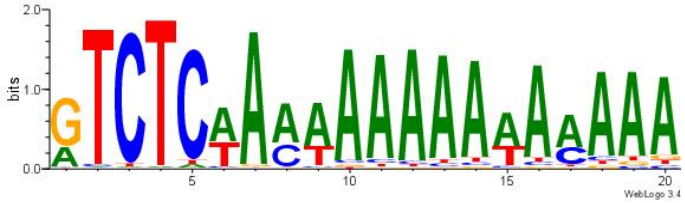

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

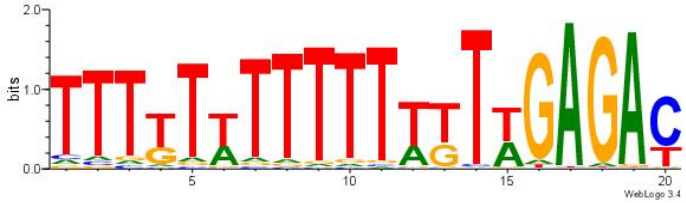

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.144019

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

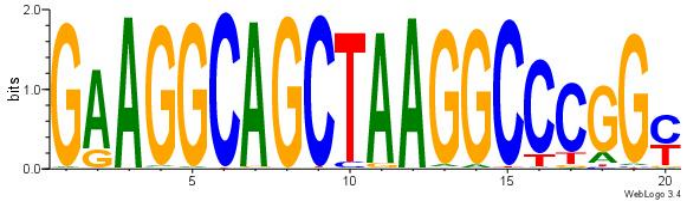

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

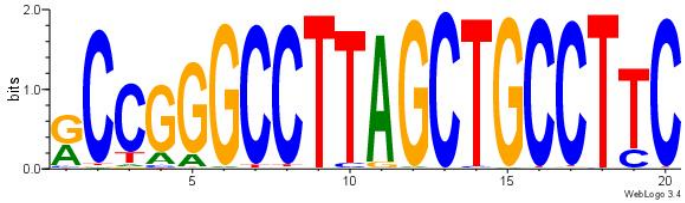

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.144189

Alignment:
AGGTCCTTCAGGAGGTATTC
AACCCTATTGTGAACTGYG-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

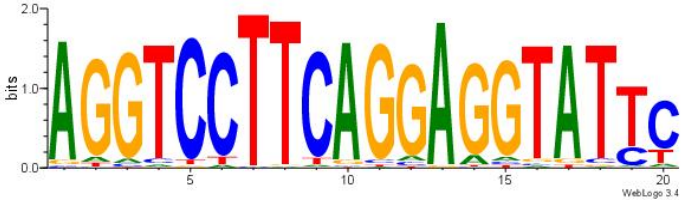

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

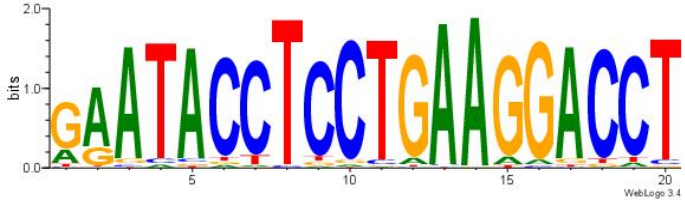

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.144887

Alignment:
AGGTTTGTTACATAGGTAWA
-CMCAGTTCACAATAGGGTT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

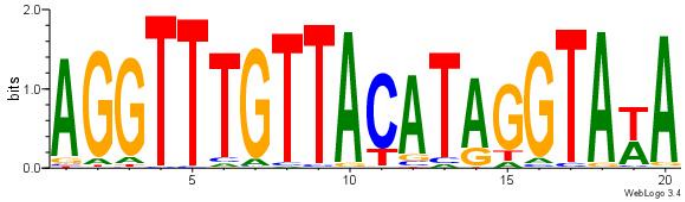

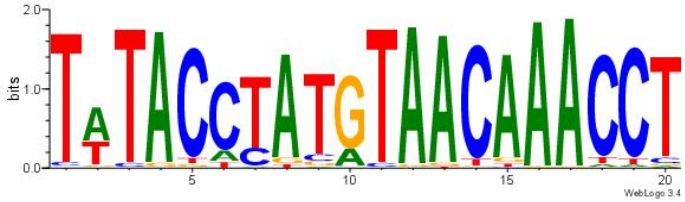

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145383

Alignment:

```
CGGCGCTGMGCTCGATTTCT
AACCCTATTGTGAACTGYG-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

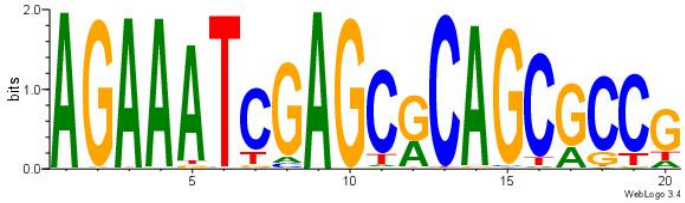

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

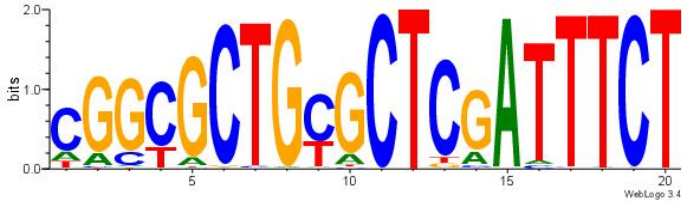

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.145428

Alignment:

```
GACAGGAGATTAACACTGAG
-AACCCTATTGTGAACTGYG
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

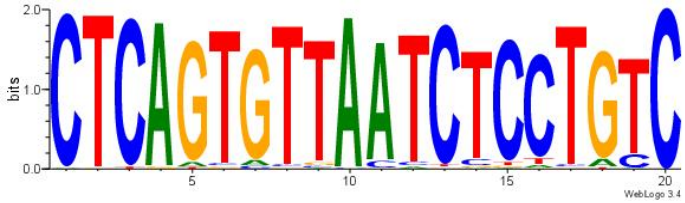

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

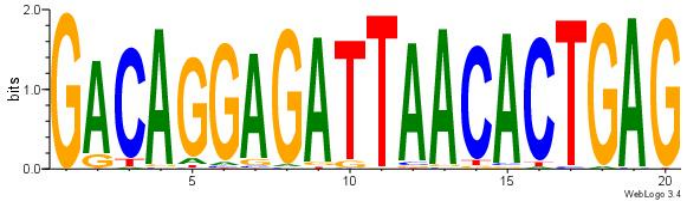

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.146484

Alignment:
AAAATGTGGTAYATAYAYAC
-AACCCTATTGTGAACTGYG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

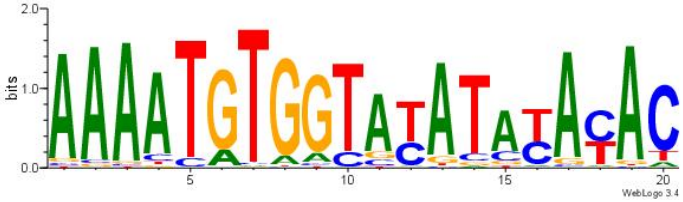

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

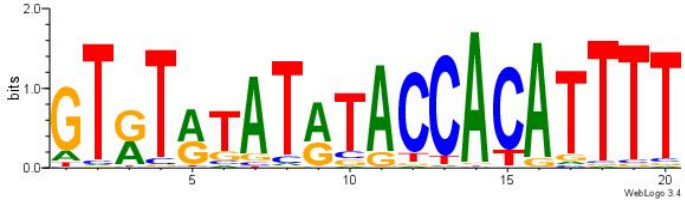

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.146663

Alignment:
AAAGCTGGAGCTATTATCTA
AACCCTATTGTGAACTGYG-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

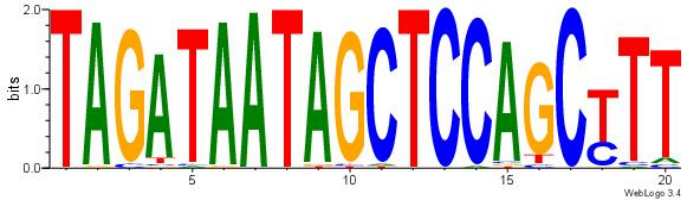

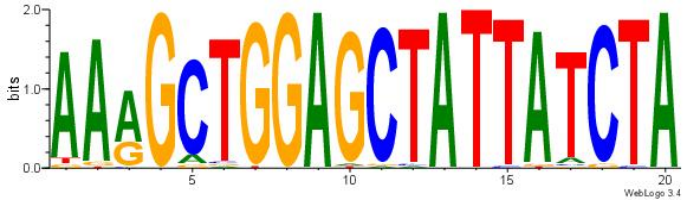

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.146713

Alignment:

```
TCKMGCCACTGCACTCCAGC
AACCCTATTGTGAACTGYG-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

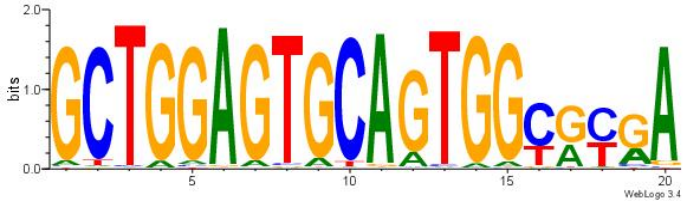

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

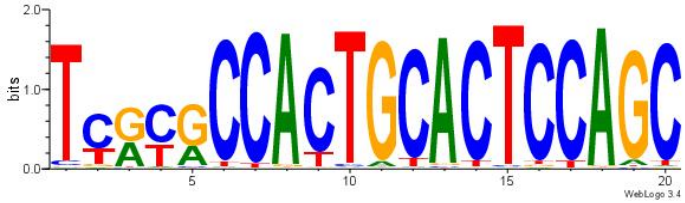

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.146779

Alignment:

```
MTCCTCCAGACCCCAGAATG
-CMCAGTTCACAATAGGGTT
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

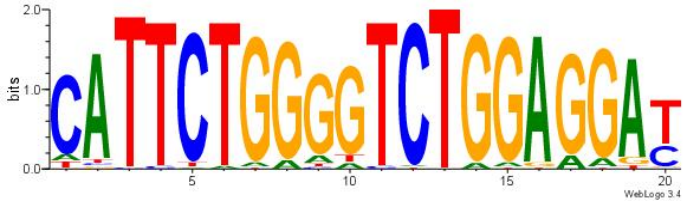

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

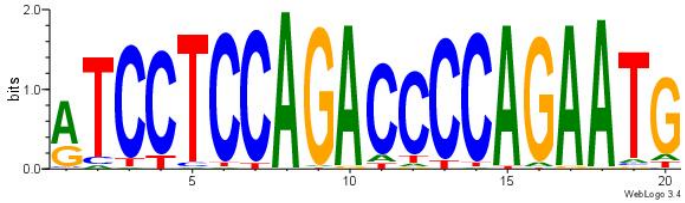

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.147042

Alignment:
TCTCTCTCTCTCTCTCTCTC
CMCAGTTCACAATAGGGTT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

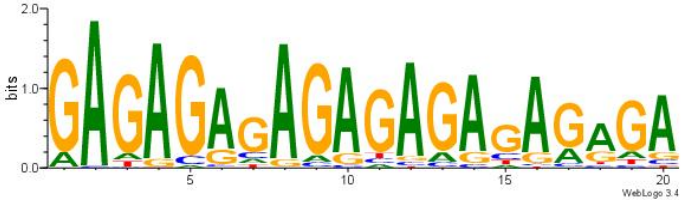

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

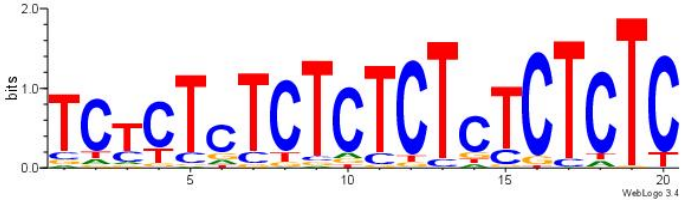

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.147155

Alignment:
HAGTGGKATTGCTGGATCAT
AACCCTATTGTGAACTGYG-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

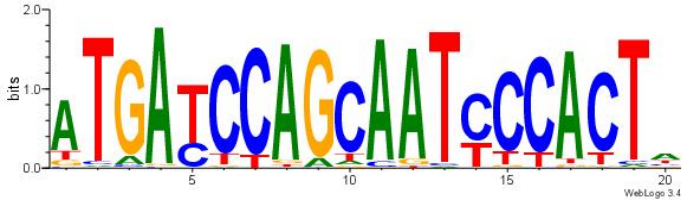

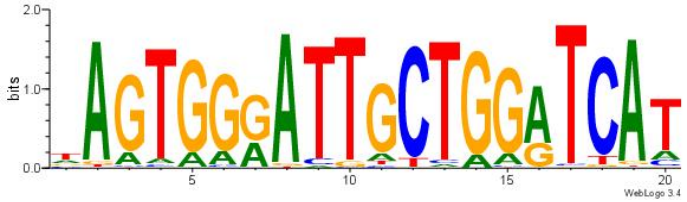

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.147541

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CMCAGTTCACAATAGGGTT-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

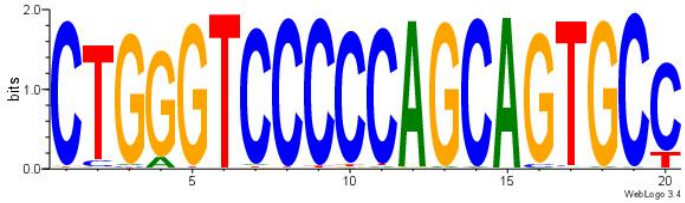

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

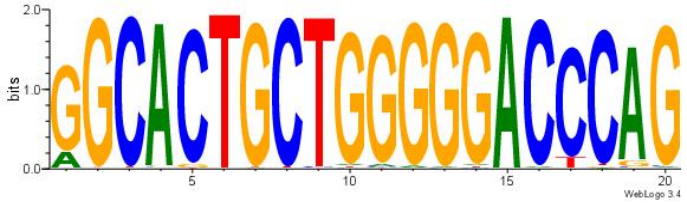

Dataset #: 1 Motif ID: 243 Motif name: Motif 243

Original motif Consensus sequence: CAGTGGTTCTCAA

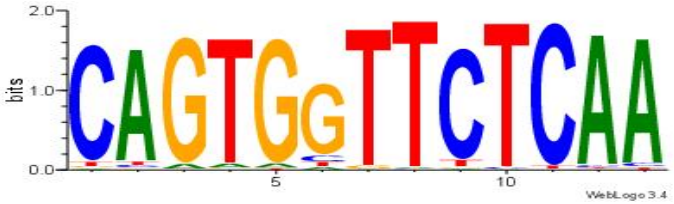

Reverse complement motif Consensus sequence: TTGAGAACCACTG

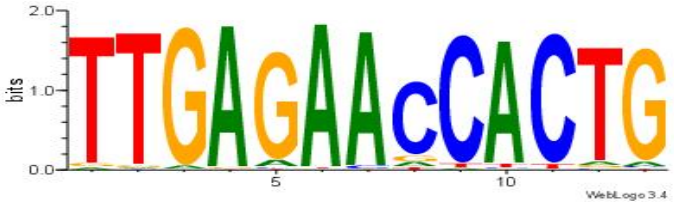

Best Matches for Motif ID 243 (Highest to Lowest)

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0720775

Alignment:

```
TGCTGGAGGTCCACTCCAGA
---TTGAGAACCACTG----
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

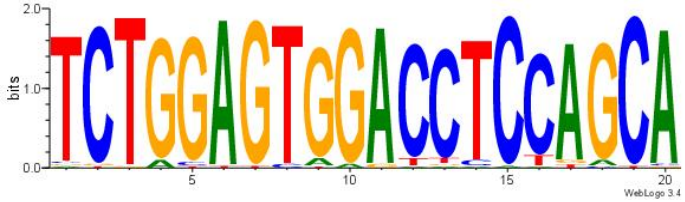

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

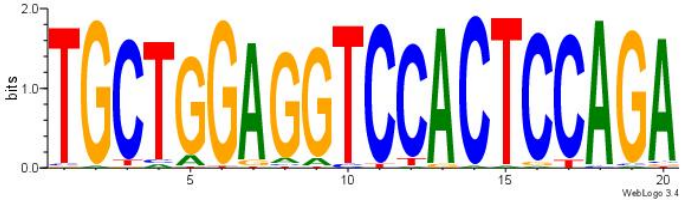

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0768151

Alignment:

```
CTGGGCACCATTGA
-TTGAGAACCACTG
```

Original motif Consensus sequence: CTGGGCACCATTGA

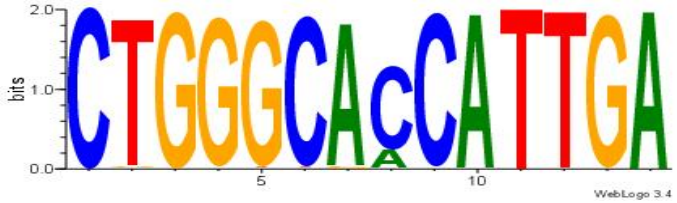

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

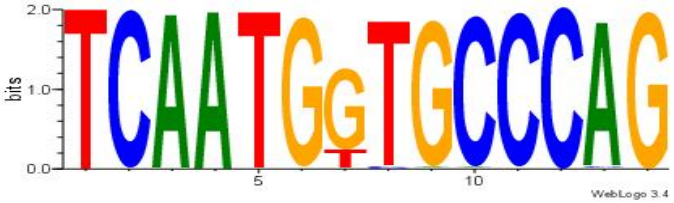

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.0785125

Alignment:
CTAGACATAAAGGTTCTCCA
-------CAGTGGTTCTCAA

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

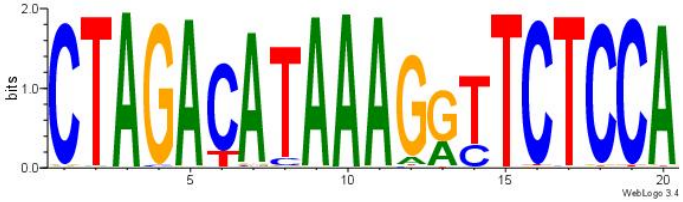

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

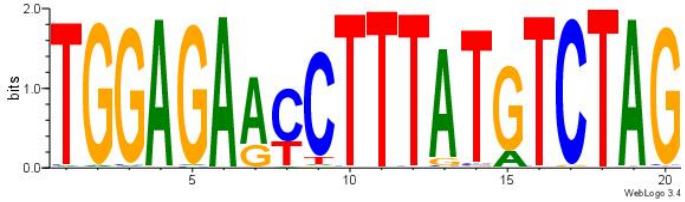

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0831649

Alignment:
ATTGATMKCCAGGGTTGATT
-TTGAGAACCACTG------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

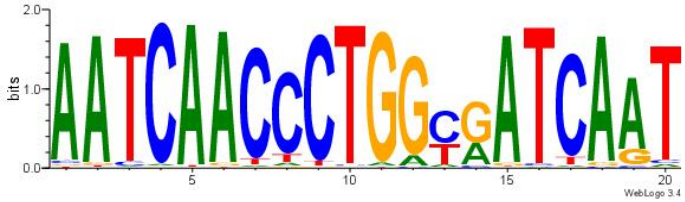

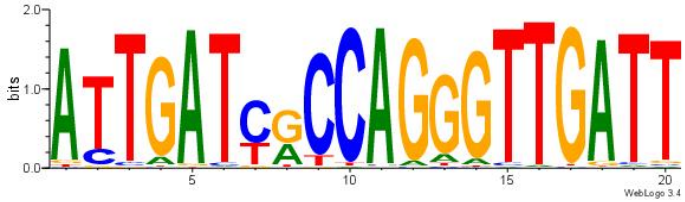

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0849124

Alignment:

```
GCCAGGCAGAGRGKCTCCT
------CAGTGGTTCTCAA
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

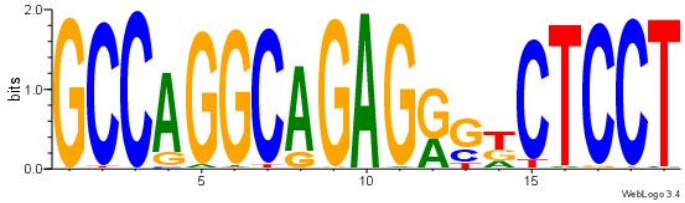

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

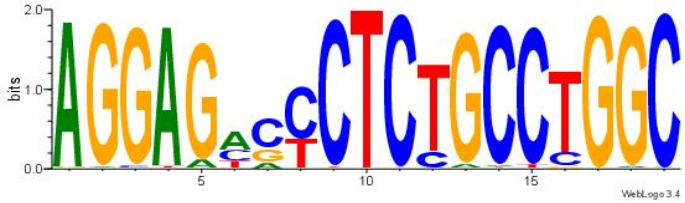

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0867339

Alignment:

```
AAAMAMMKMATGTTCTCACT
-CAGTGGTTCTCAA------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

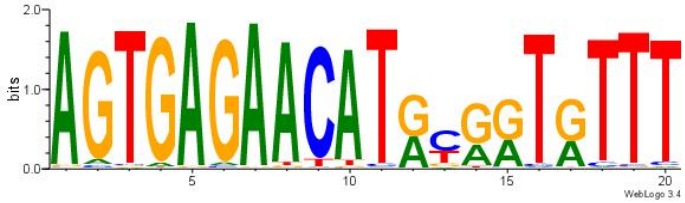

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

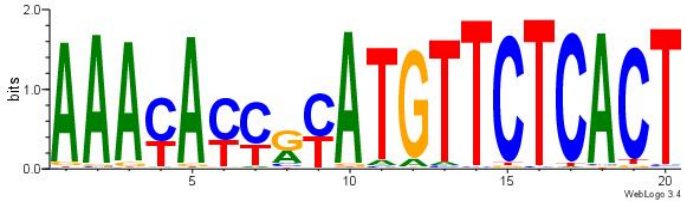

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.0870266

Alignment:
CTCAGTGTTAATCTCCTGTC
--CAGTGGTTCTCAA-----

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

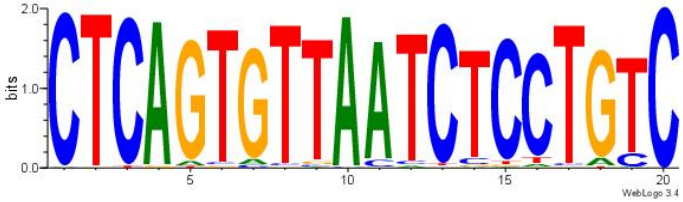

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

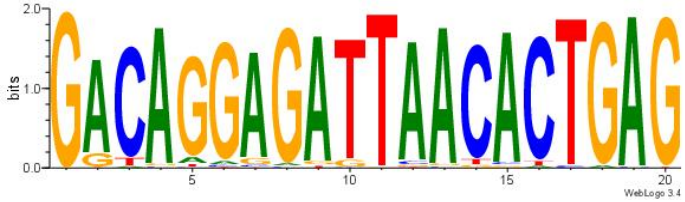

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0873333

Alignment:
AWTKKTGGTTKCCAGKGGCT
-----CAGTGGTTCTCAA--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

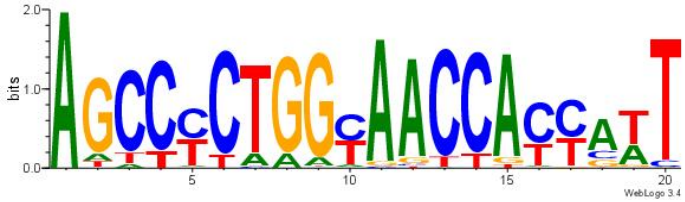

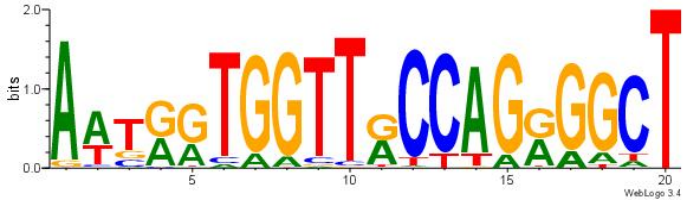

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0888236

Alignment:

```
CAGTCTGTGTCTTTTAATT
----CAGTGGTTCTCAA--
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

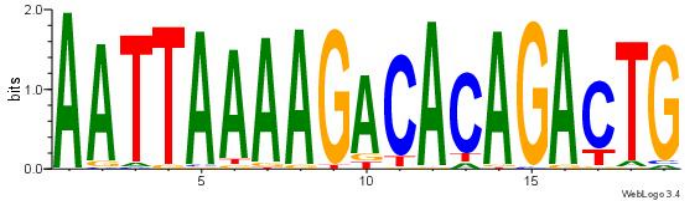

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

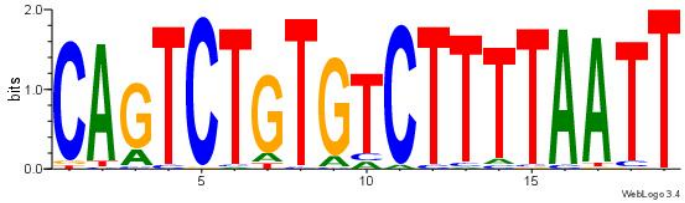

Dataset #:	1

Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0894115

Alignment:

```
TTGTTAAAAACTA
TTGAGAACCACTG
```

Original motif Consensus sequence: TAGTTTTTAACAA

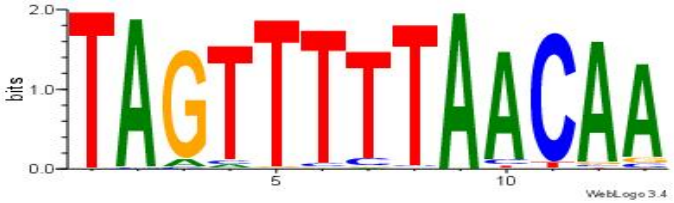

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

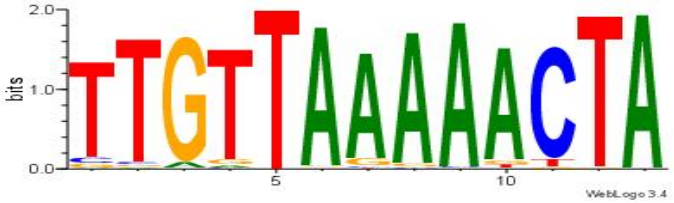

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0911668

Alignment:
GCAGAGGCGCTCCT
-CAGTGGTTCTCAA

Original motif Consensus sequence: GCAGAGGCGCTCCT

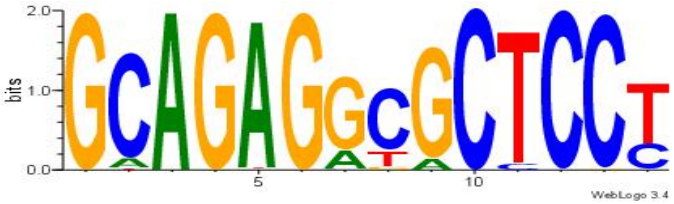

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

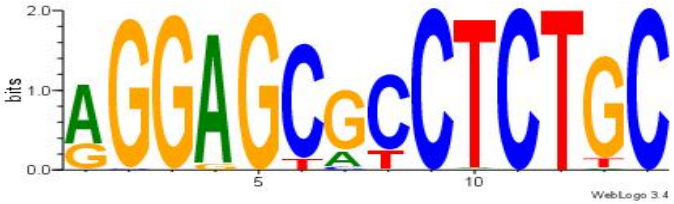

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0912589

Alignment:
CTGAGGACCTGAGGTCRTA
TTGAGAACCACTG------

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

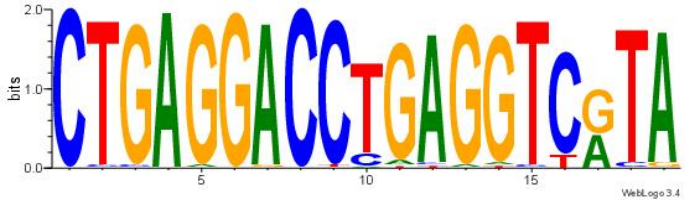

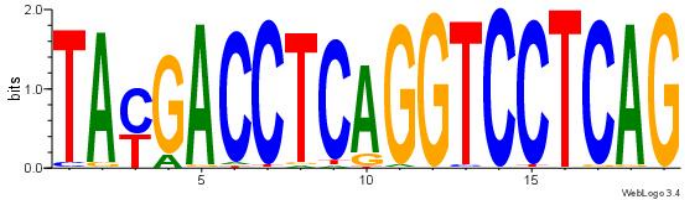

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0921597

Alignment:

```
KACATTGATTTTGTATC
--CAGTGGTTCTCAA--
```

Original motif Consensus sequence: GATACAAAATCAATGTR

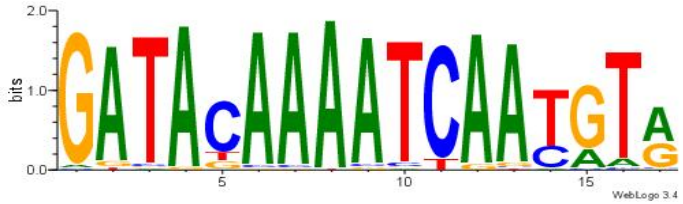

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

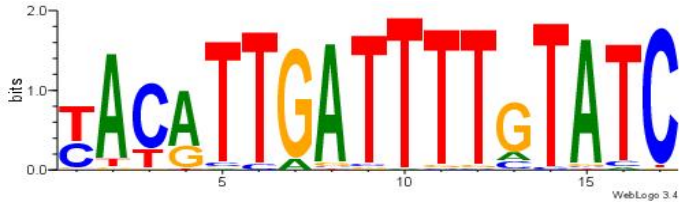

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0956687

Alignment:

```
GTGCCAGGCACTGTKCTARG
-------TTGAGAACCACTG
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

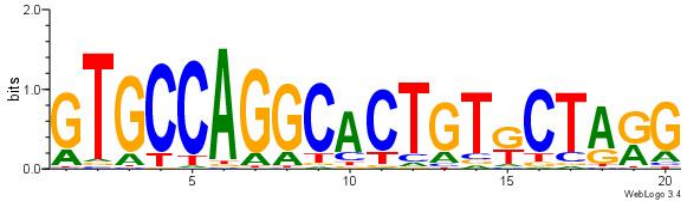

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

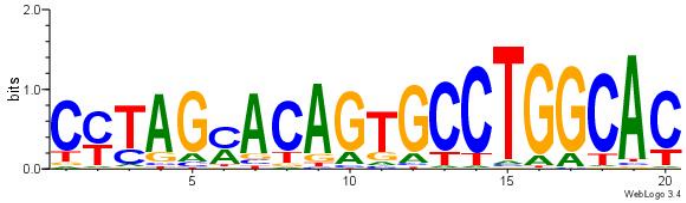

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.0966609

Alignment:
TCAATGGGCTCCCAAATG
--CAGTGGTTCTCAA---

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

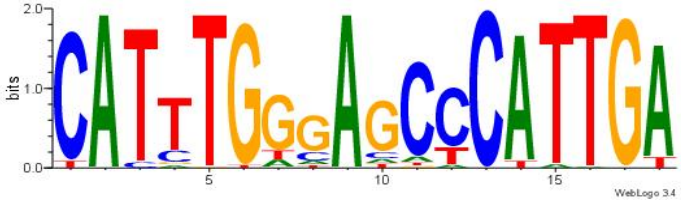

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

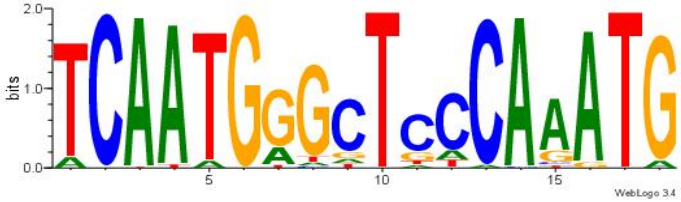

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.0971413

Alignment:
VMATTTAKTGAGCACCTACT
-------TTGAGAACCACTG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

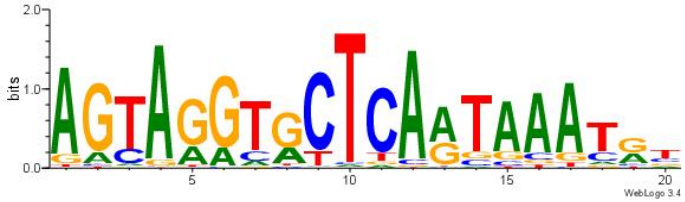

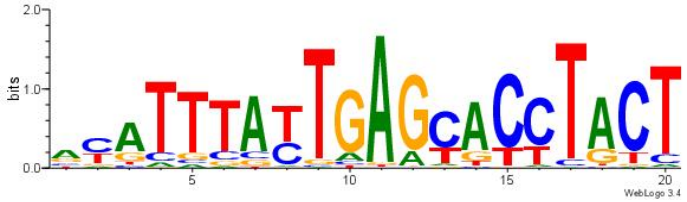

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.100843

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
---CAGTGGTTCTCAA----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

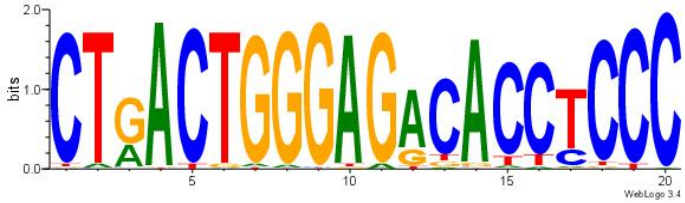

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

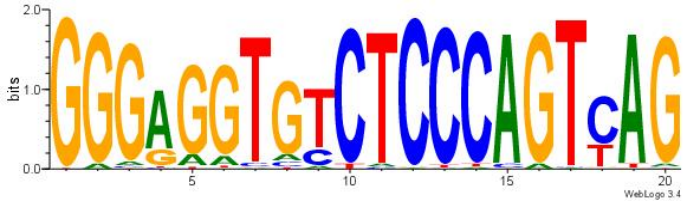

Dataset #:	1

Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.100985

Alignment:

```
TTGAGACMGKGTCT
TTGAGAACCACTG-
```

Original motif Consensus sequence: AGACYCYGTCTCAA

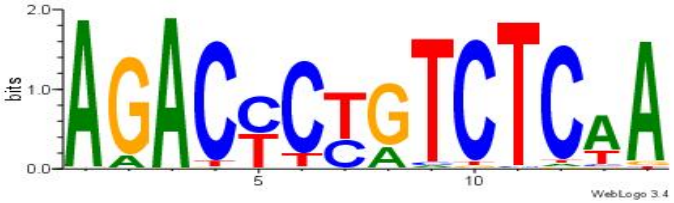

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

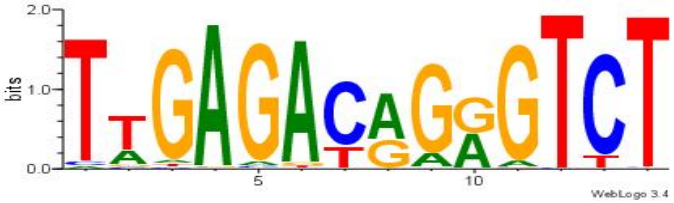

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.101047

Alignment:
GGTGGGAGAAATACCT
---TTGAGAACCACTG

Original motif Consensus sequence: AGGTATTTCTCCCACC

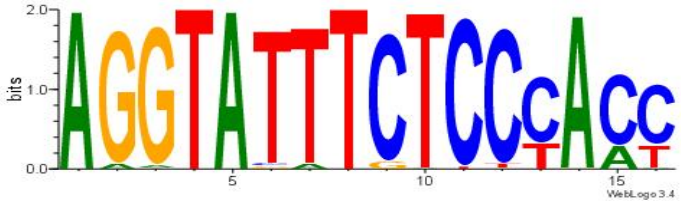

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

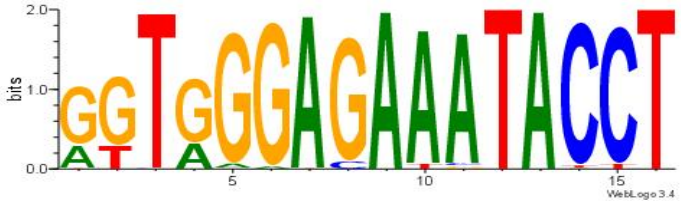

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10114

Alignment:
TCTCTGAGCCTCAGTT
-CAGTGGTTCTCAA--

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

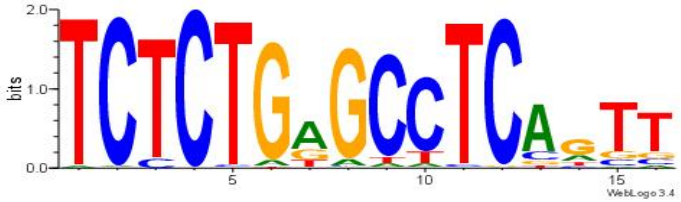

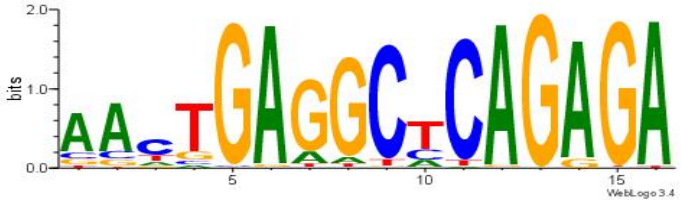

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.102267

Alignment:

```
TCCTATGAGAATCTAATG
----TTGAGAACCACTG-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

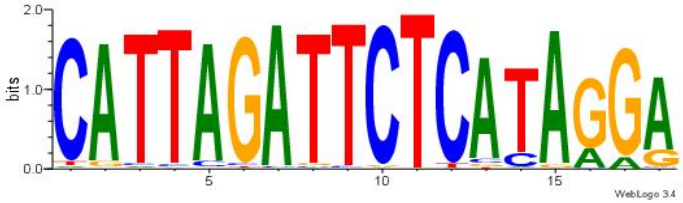

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

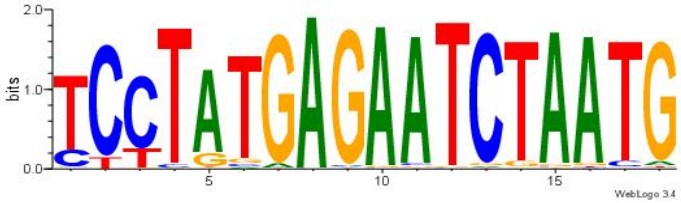

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.103235

Alignment:

```
CCACCACAGCTCAAGGAGGC
-CAGTGGTTCTCAA------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

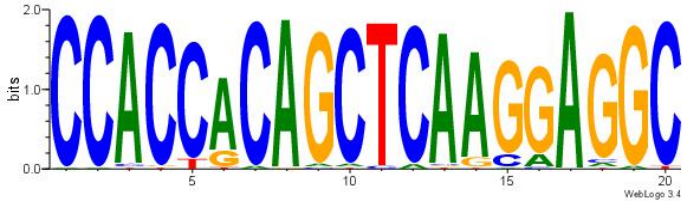

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

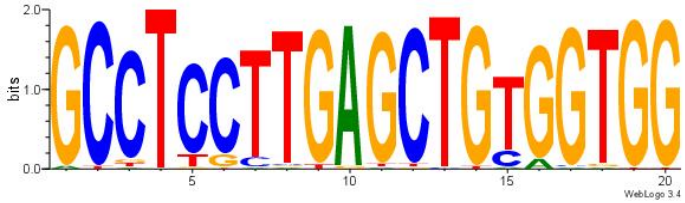

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.103372

Alignment:
GTGTGCGAATAGGTGT
--TTGAGAACCACTG-

Original motif Consensus sequence: ACACCTATTCGCACAC

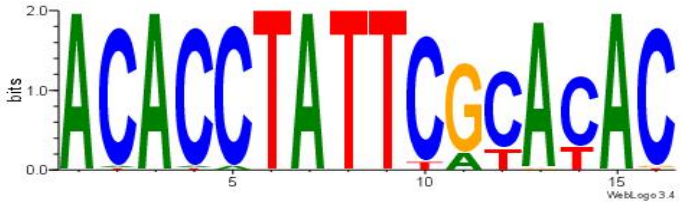

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

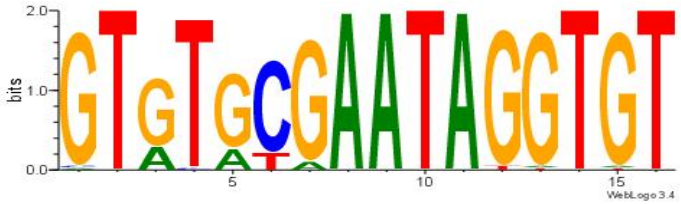

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.10346

Alignment:
GCTTAGCACCYGGGCCAGC
-----TTGAGAACCACTG-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

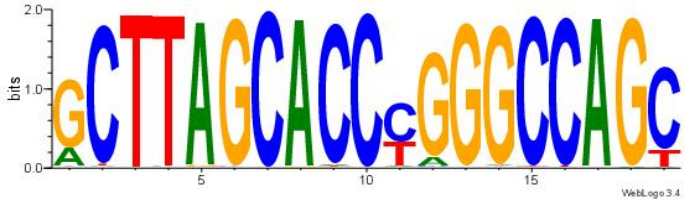

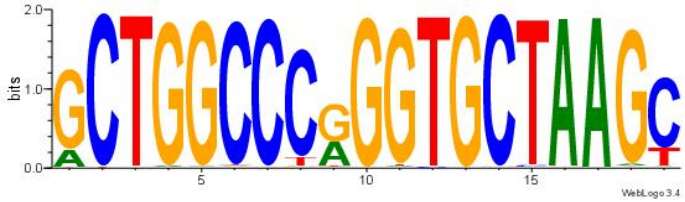

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.103701

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
CAGTGGTTCTCAA-------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

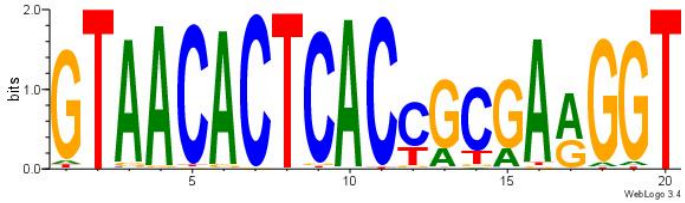

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

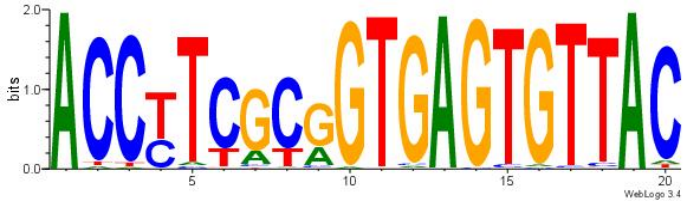

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.10397

Alignment:

```
GCCGGGRAGAGGCGCTCCT
CAGTGGTTCTCAA------
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

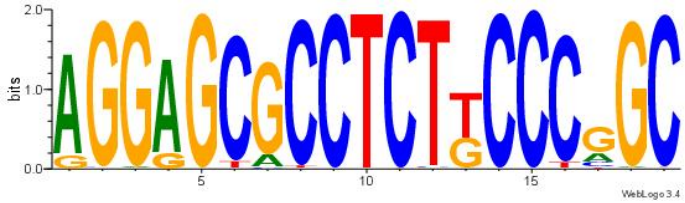

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

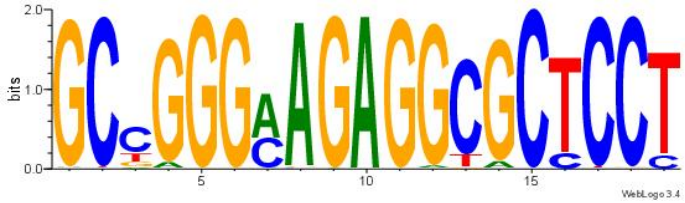

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.104496

Alignment:
CTATTGTGAATARTGCTGC
-TTGAGAACCACTG-----

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

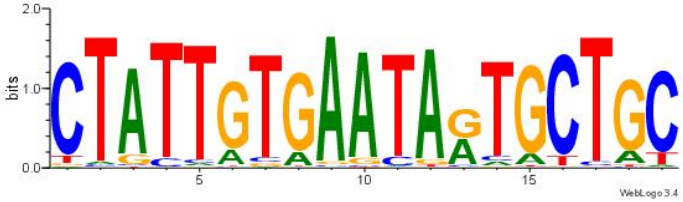

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

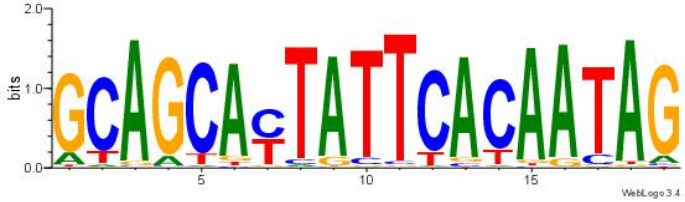

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.104551

Alignment:
ATCRCTTGAGSYCAGGAGKT
--TTGAGAACCACTG-----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

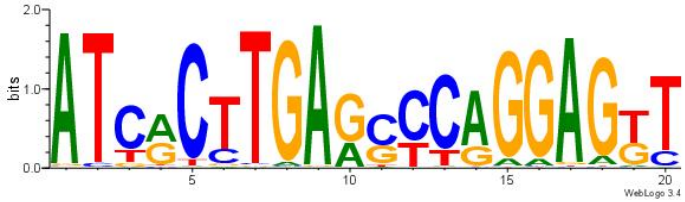

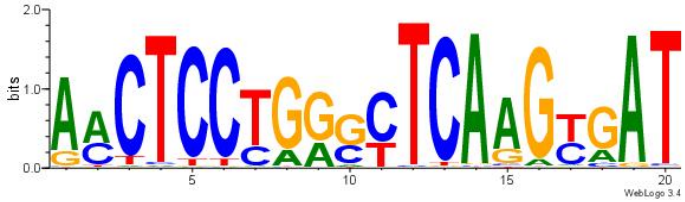

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.104582

Alignment:

```
TCTMKGCTCACTGC
TTGAGAACCACTG-
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

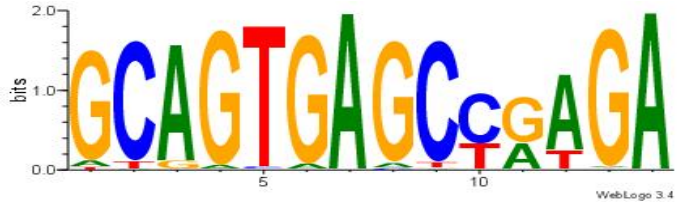

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

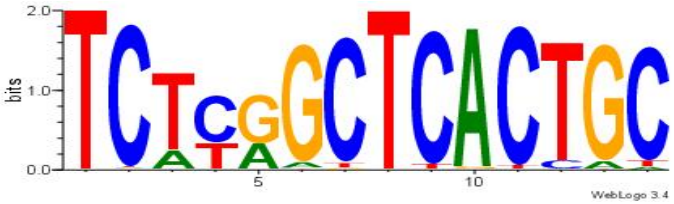

Dataset #:	1
Motif ID:	175

Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10463

Alignment:

```
AGCTAGAYACAGAGTGC
-TTGAGAACCACTG---
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

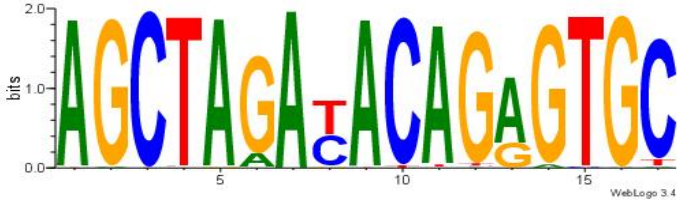

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

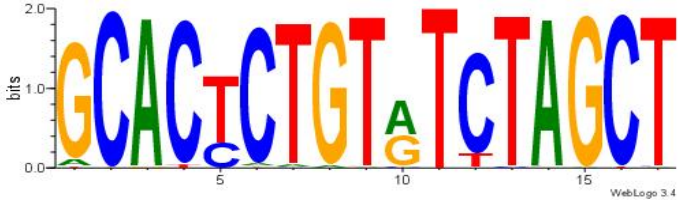

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.104719

Alignment:
GCCAATTTCTCCCATTTGGA
-----CAGTGGTTCTCAA--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

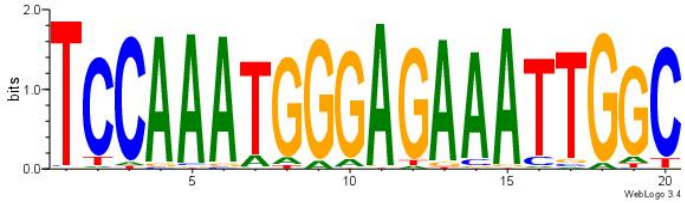

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

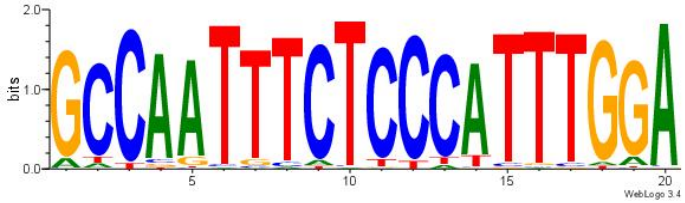

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.104768

Alignment:
AGCCCCGGTTCCCGCYCGC
--CAGTGGTTCTCAA----

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

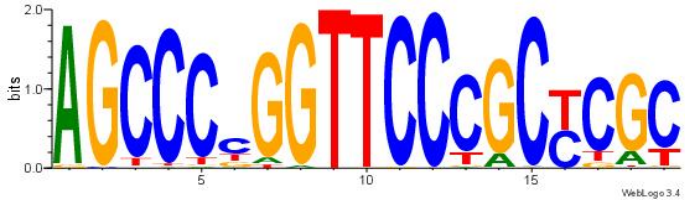

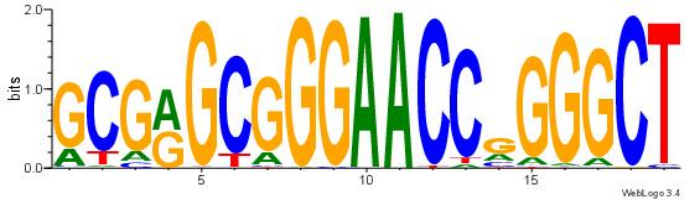

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.104809

Alignment:

```
GTGAGCGACGCAG
TTGAGAACCACTG
```

Original motif Consensus sequence: CTGCGTCGCTCAC

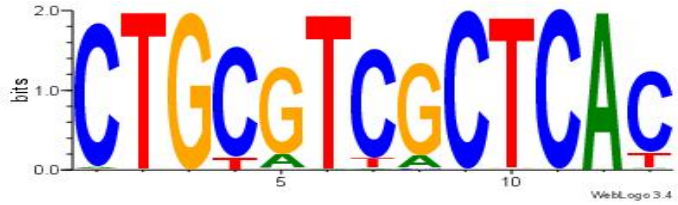

Reverse complement motif Consensus sequence: GTGAGCGACGCAG

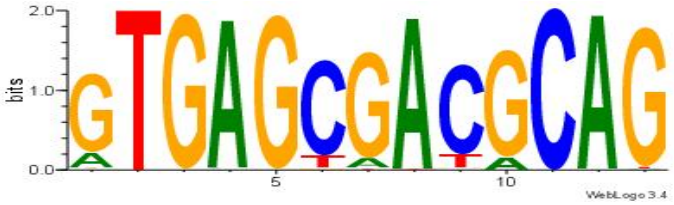

Dataset #:	1
Motif ID:	193

Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.105274

Alignment:

```
ATACAATGGGGGTACAGRC
---CAGTGGTTCTCAA---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

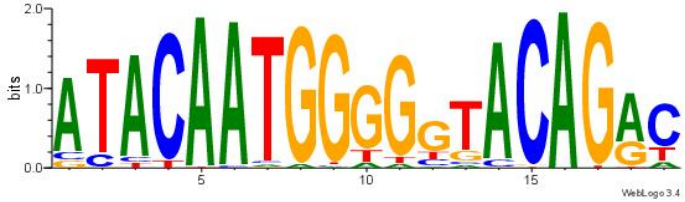

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

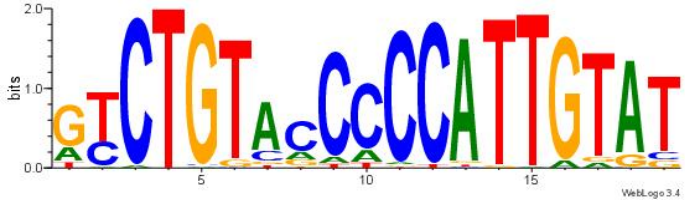

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.105812

Alignment:
CTGGGCTCCTGAGTCTGGTG
CAGTGGTTCTCAA-------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

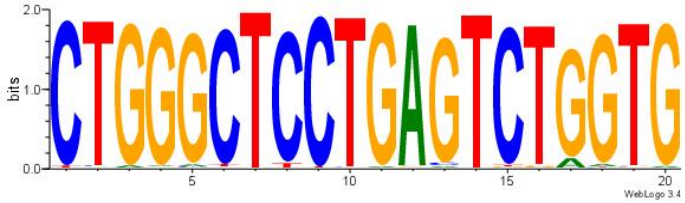

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

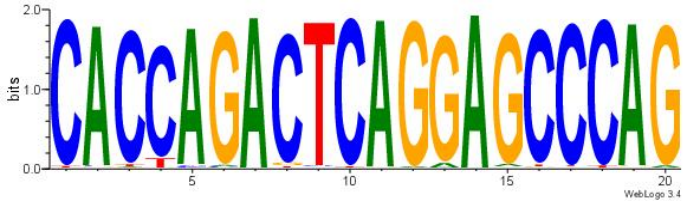

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10604

Alignment:
ATAGGAATGCTTGTGATTTT
----CAGTGGTTCTCAA---

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

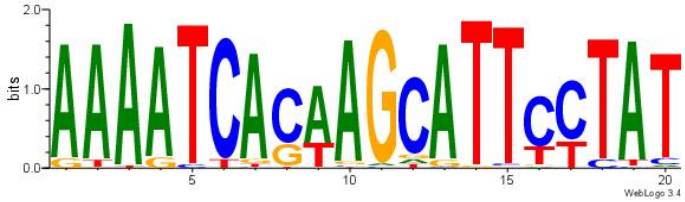

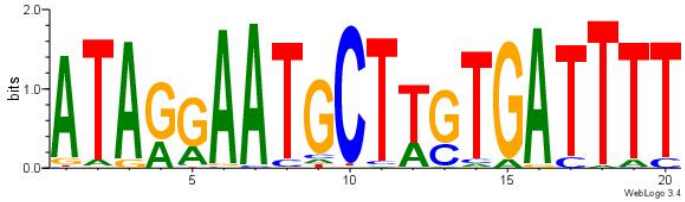

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106369

Alignment:

```
CCATGATTGTRAGG
CAGTGGTTCTCAA-
```

Original motif Consensus sequence: CCATGATTGTRAGG

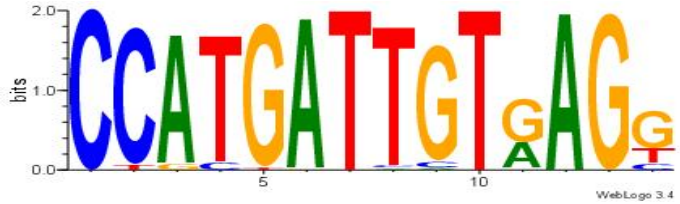

Reverse complement motif Consensus sequence: CCTMACAATCATG

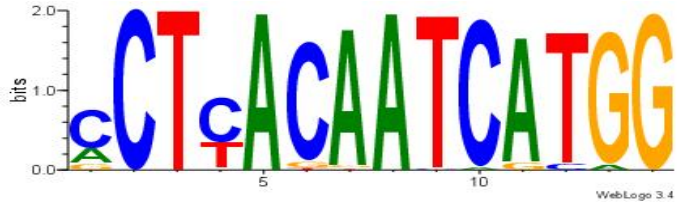

Dataset #:	1
Motif ID:	192

Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106369

Alignment:

```
GAATCCTGGGACAGCCTGT
-TTGAGAACCACTG-----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

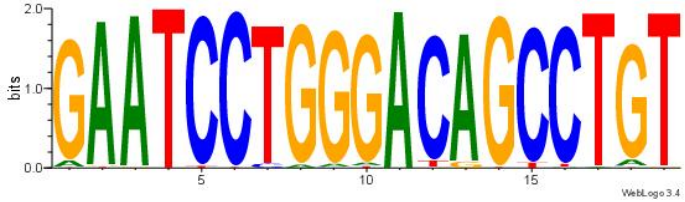

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

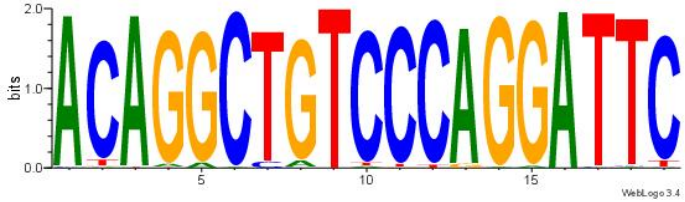

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.106807

Alignment:
TTGGAGGTTCTAGCAGGG
-CAGTGGTTCTCAA----

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

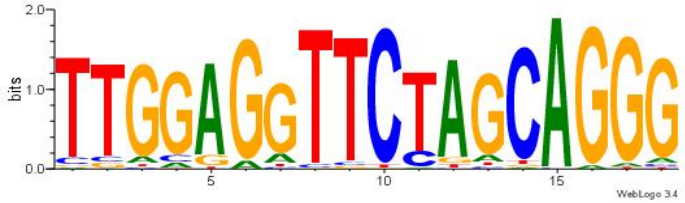

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.106975

Alignment:
TAGTGGTGATTTSTGAGAT
CAGTGGTTCTCAA------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

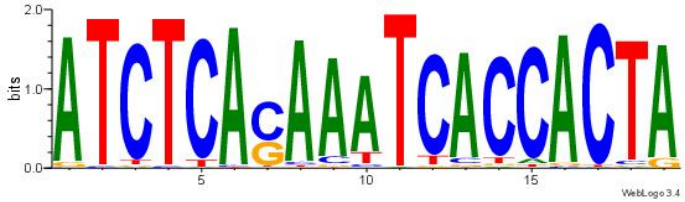

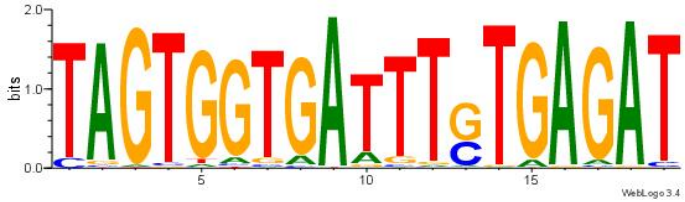

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.107386

Alignment:

```
TAGATAATAGCTCCAGCTTT
TTGAGAACCACTG-------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

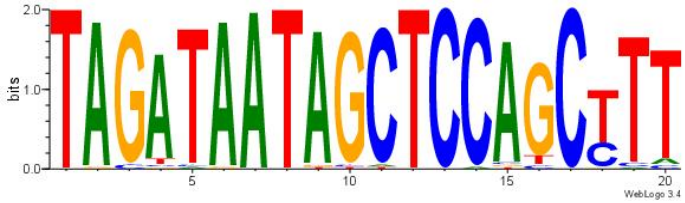

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

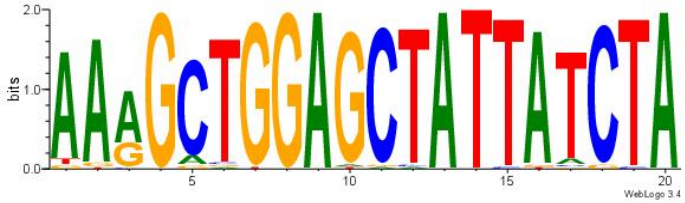

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.108543

Alignment:

```
AAGCAGGGCGAGGCATTGCC
--TTGAGAACCACTG-----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

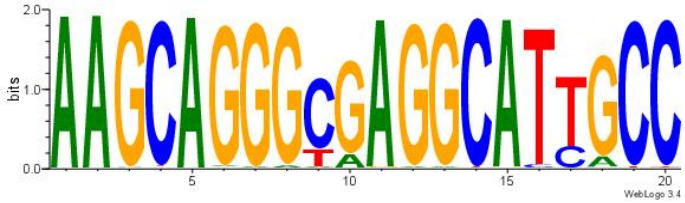

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

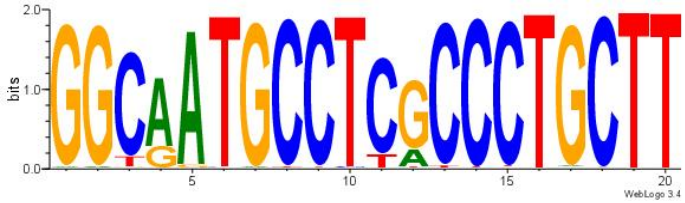

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.108591

Alignment:
CTTGCGCTTCCCRRGTGA
-CAGTGGTTCTCAA----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

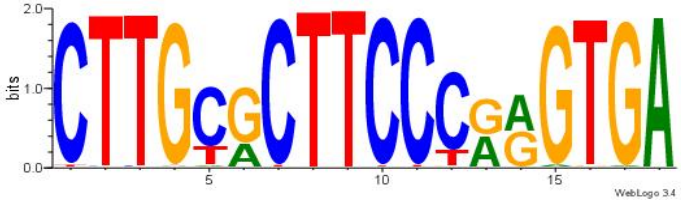

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

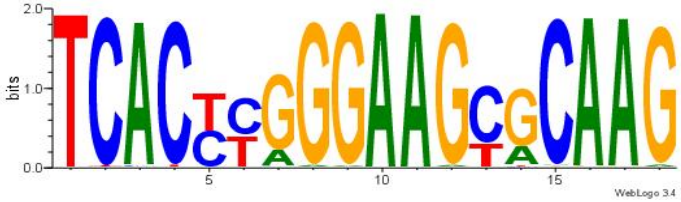

Dataset #: 1
Motif ID: 148
Motif name: Motif 148
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.109092

Alignment:
CTTCGCTGACTCTCTTT
-CAGTGGTTCTCAA---

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

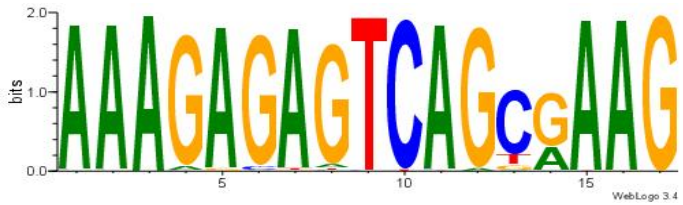

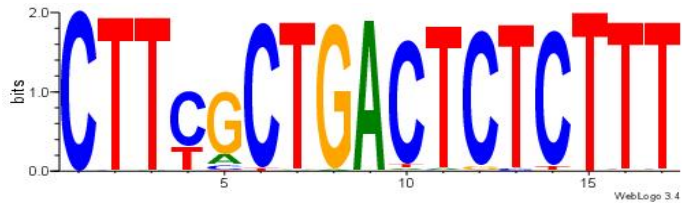

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.10917

Alignment:

```
GGCACTGCTGGGGGACCCAG
CAGTGGTTCTCAA-------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

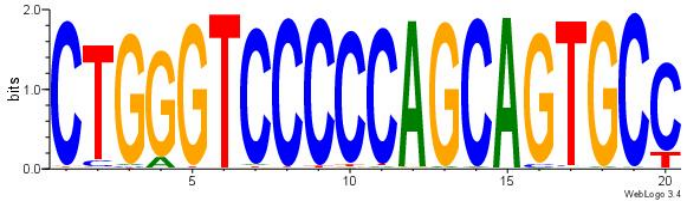

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

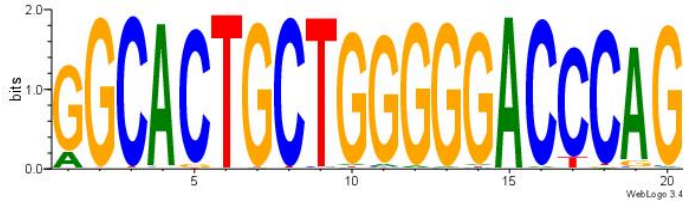

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.109454

Alignment:

```
KGGGCDGAGGGGCTCCT
CAGTGGTTCTCAA----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

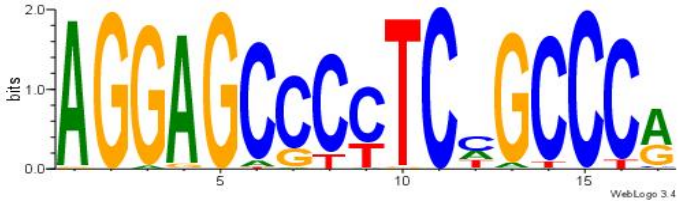

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.110027

Alignment:
CCTTGGCCAGCCCAGAAAG
----TTGAGAACCACTG--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

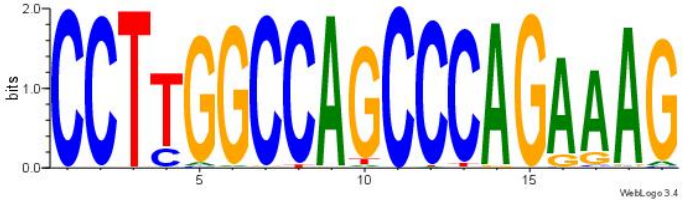

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

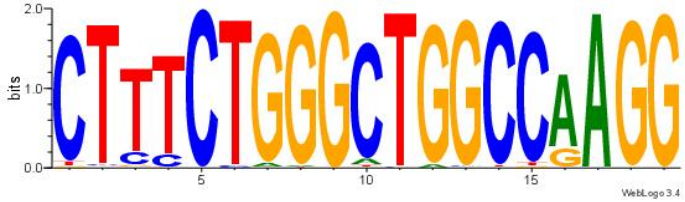

Dataset #: 1
Motif ID: 135
Motif name: Motif 135
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.110332

Alignment:
CTCTTGTTGCCCAG
CAGTGGTTCTCAA-

Original motif Consensus sequence: CTCTTGTTGCCCAG

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

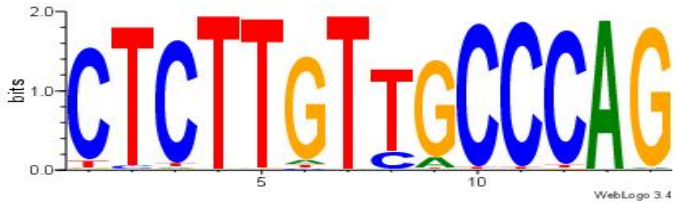

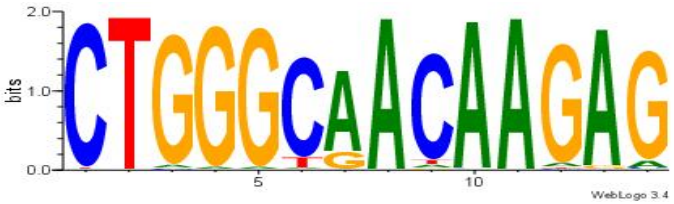

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.110374

Alignment:

```
CTGGGCRACAGAGYRAGACY
-------TTGAGAACCACTG
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

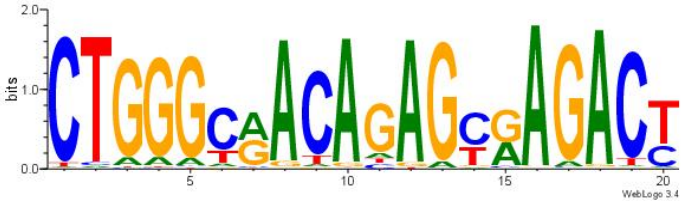

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

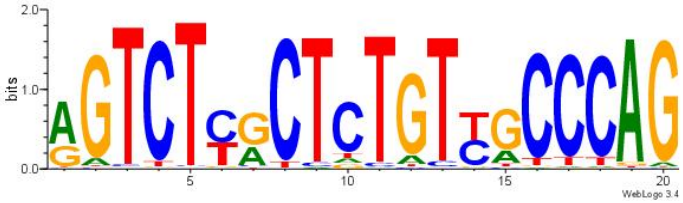

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.110382

Alignment:

```
CAAGTTGACACATAAAATTA
----TTGAGAACCACTG---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

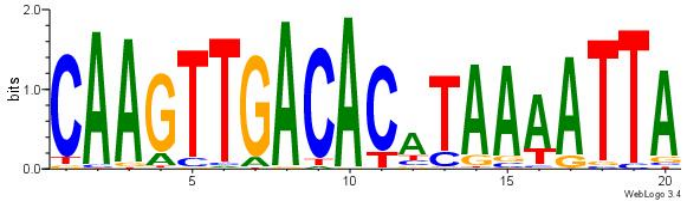

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

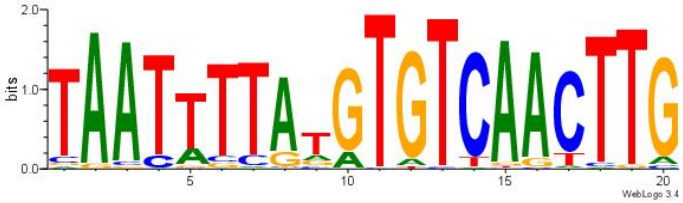

Dataset #: 1 Motif ID: 244 Motif name: Motif 244

Original motif Consensus sequence: GTATWTACCCA

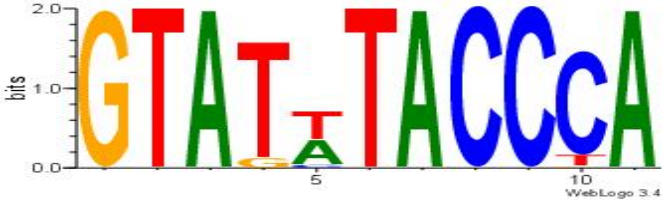

Reverse complement motif Consensus sequence: TGGGTAWATAC

Best Matches for Motif ID 244 (Highest to Lowest)

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0692202

Alignment:

```
GGTGGGAGAAATACCT
---TGGGTAWATAC--
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

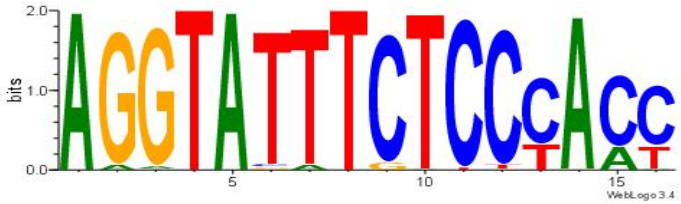

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

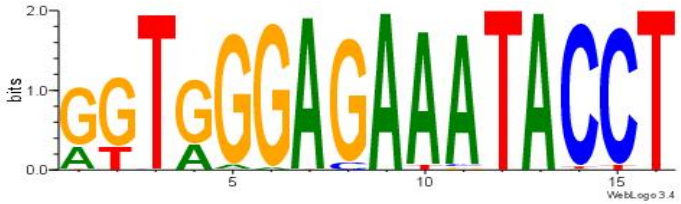

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0769317

Alignment:

```
TTGTTAAAAACTA
TGGGTAWATAC--
```

Original motif Consensus sequence: TAGTTTTTAACAA

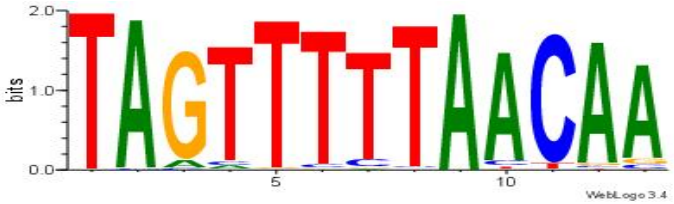

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

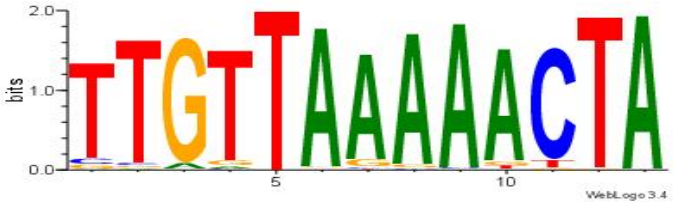

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.077946

Alignment:

```
GGGATTGTAAATACACCAAT
---TGGGTAWATAC------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

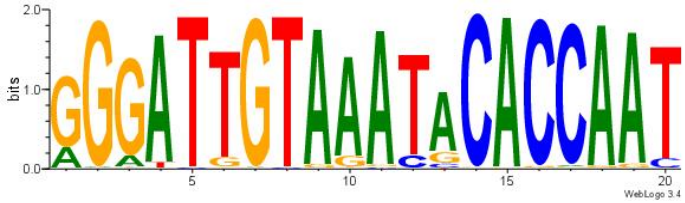

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0793596

Alignment:

```
AATGAGTTAAGACTTTG
----TGGGTAWATAC--
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

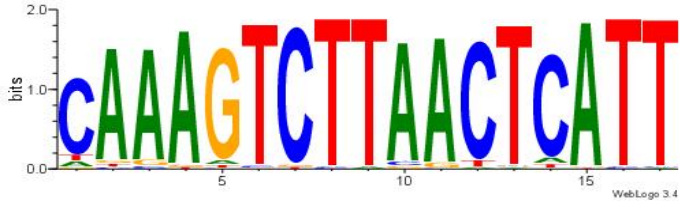

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0804324

Alignment:

```
AAAATGTGGTAYATAYAYAC
--------GTATWTACCCA-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

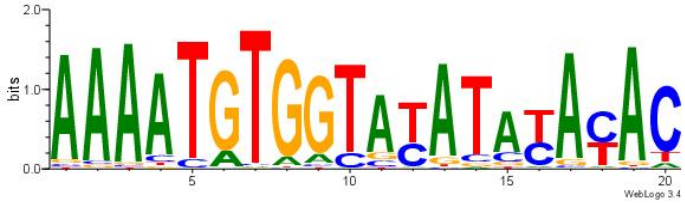

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

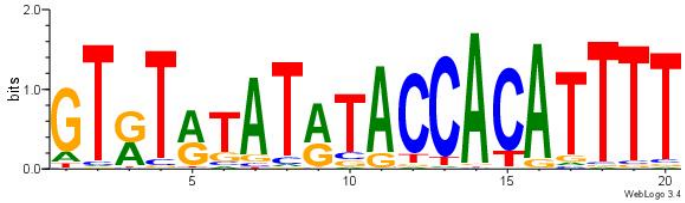

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 11
Similarity score: 0.0834271

Alignment:
GGATCCACTGGGTGAAGCCA
-TGGGTAWATAC--------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

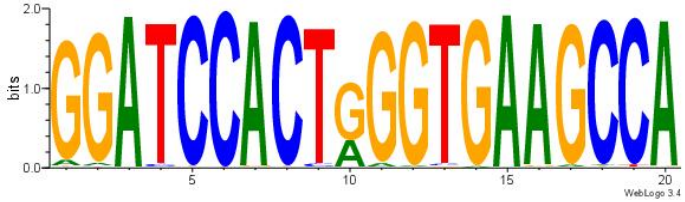

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

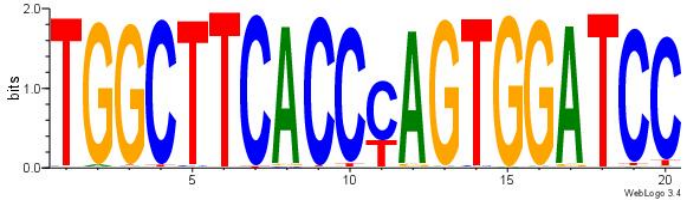

Dataset #: 1
Motif ID: 282
Motif name: Motif 282
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0868418

Alignment:
TTTTAGTAGAGAC
--TGGGTAWATAC

Original motif Consensus sequence: GTCTCTACTAAAA

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

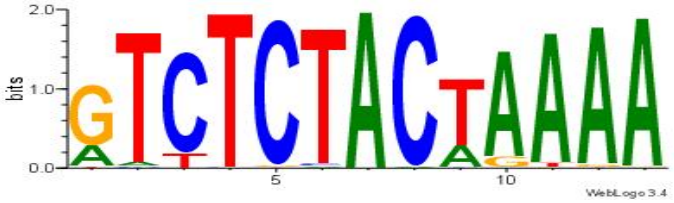

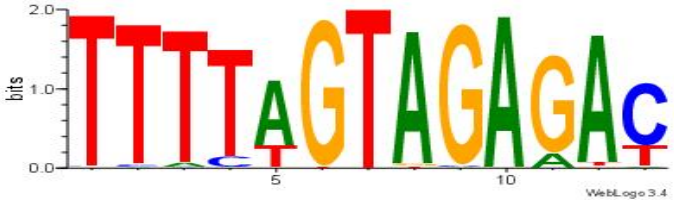

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0877875

Alignment:

```
TWTACCTATGTAACAAACCT
----GTATWTACCCA-----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

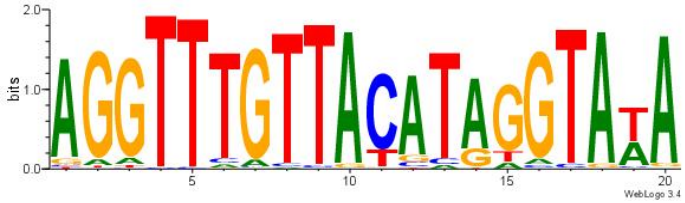

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

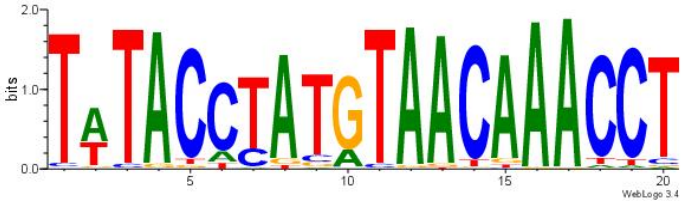

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0879197

Alignment:

```
ATGGAATAYTATTCAGCCAT
--------GTATWTACCCA-
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

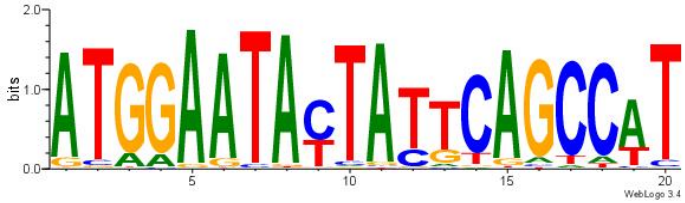

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

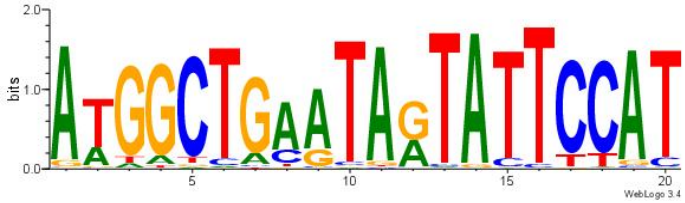

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0881267

Alignment:
TTGGTGGTCTCTTCACA
------GTATWTACCCA

Original motif Consensus sequence: TGTGAAGAGACCACCAA

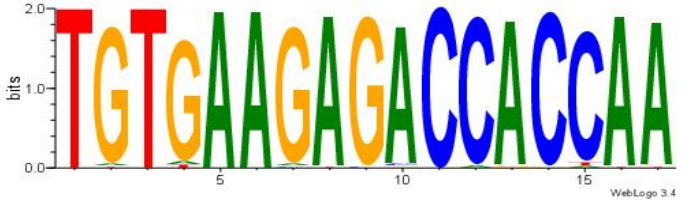

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

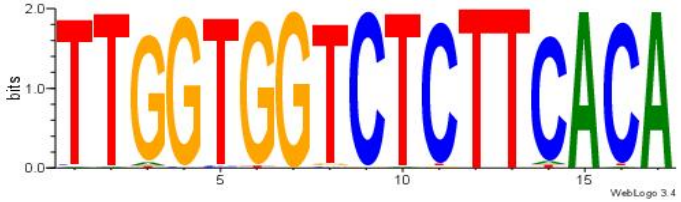

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0890087

Alignment:
AAAMAMMKMATGTTCTCACT
--GTATWTACCCA-------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

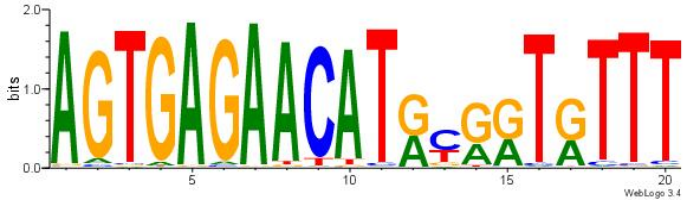

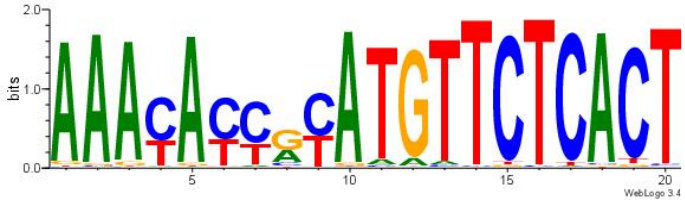

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0894167

Alignment:

```
AAGTTCTKGGKTACATGTGC
-------TGGGTAWATAC--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

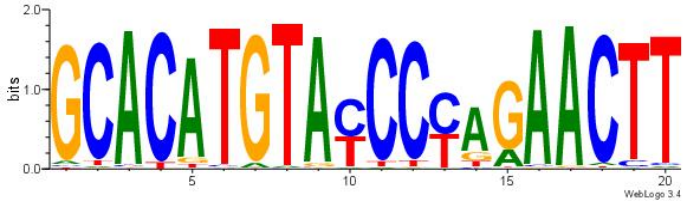

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

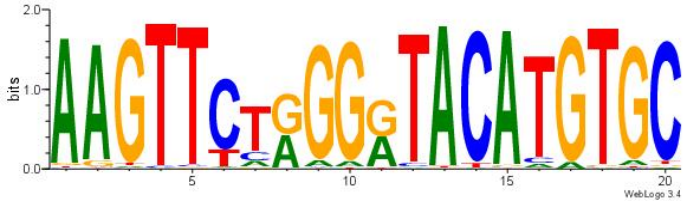

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0921502

Alignment:

```
CAGCTACTCKTATACCCTTG
--GTATWTACCCA-------
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

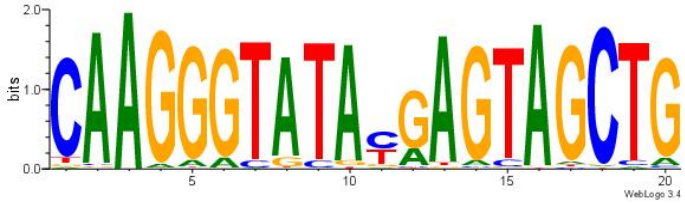

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

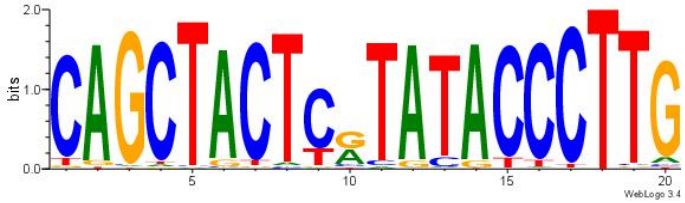

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.093298

Alignment:
CAGAAATCACCCGTCTT
--GTATWTACCCA----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

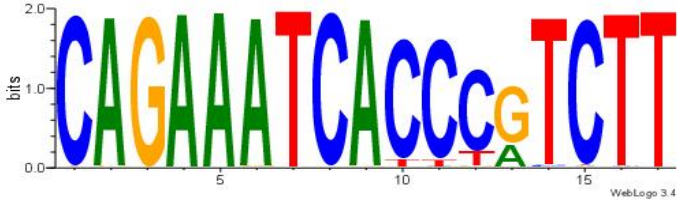

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

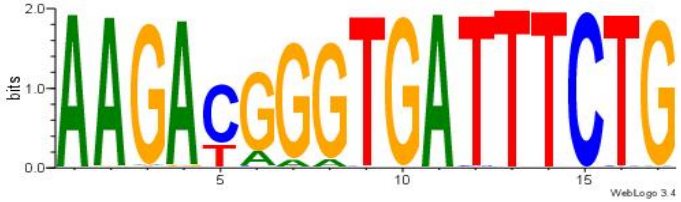

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0951865

Alignment:
AGTAGGTGCTCARTAAATRB
-GTATWTACCCA--------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

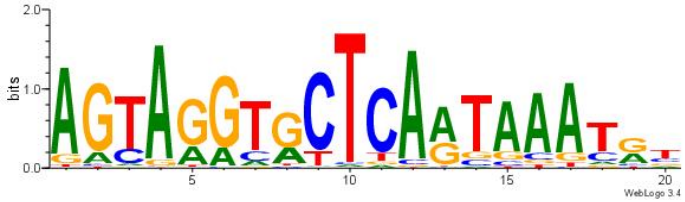

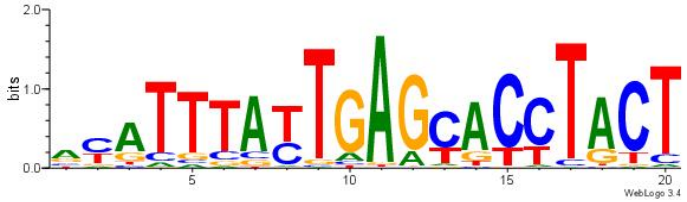

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.096042

Alignment:

```
TTGGTAGGATCCGTGATGCC
TGGGTAWATAC---------
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

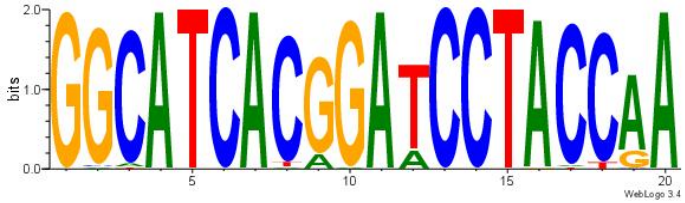

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

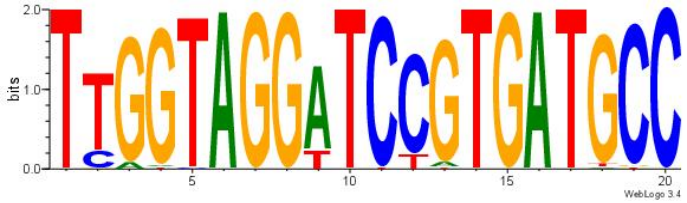

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0962677

Alignment:

```
GKCTGTACCCCCATTGTAT
--------GTATWTACCCA
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

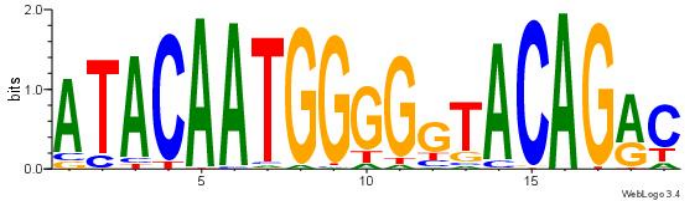

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

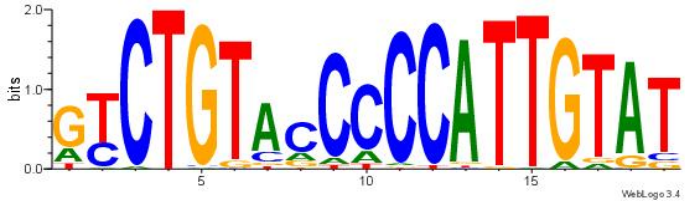

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0969435

Alignment:
CTCTTGTTGCCCAG
--GTATWTACCCA-

Original motif Consensus sequence: CTCTTGTTGCCCAG

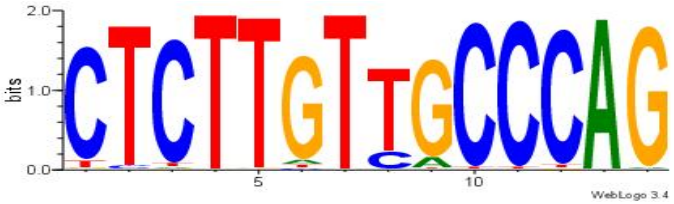

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

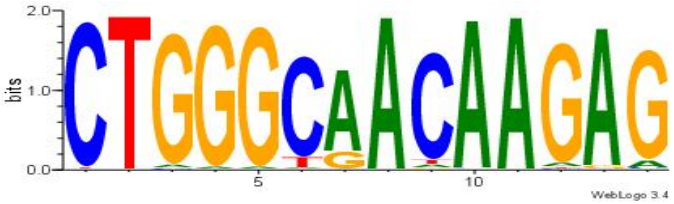

Dataset #: 1
Motif ID: 329
Motif name: Motif 329
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0970812

Alignment:
GCTAATATATCCCTCCC
----GTATWTACCCA--

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

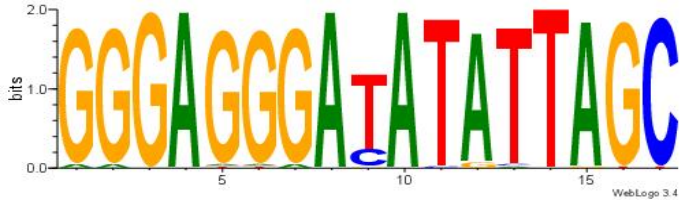

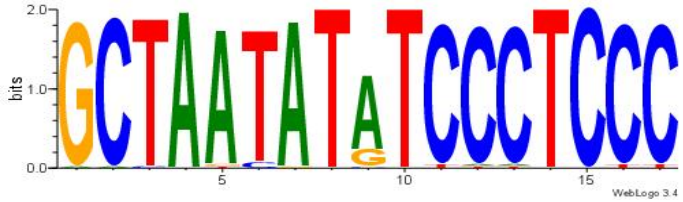

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0978062

Alignment:

```
CACCAGGAGATTATATCCCR
--TGGGTAWATAC-------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

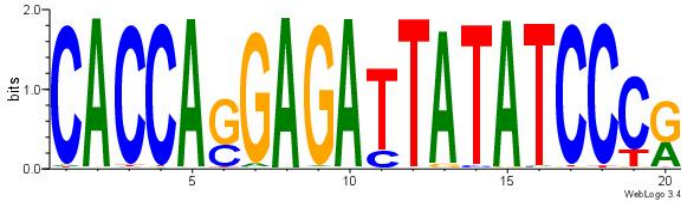

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

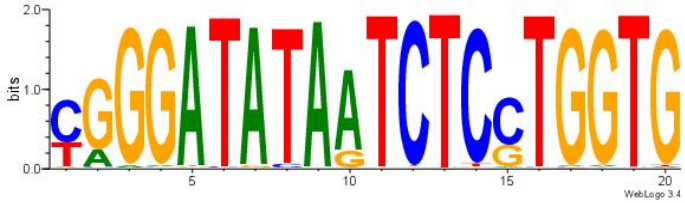

Dataset #: 1

Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.097834

Alignment:

```
TGCGCGCACCCAC
-GTATWTACCCA-
```

Original motif Consensus sequence: GTGGGTGCGCGCA

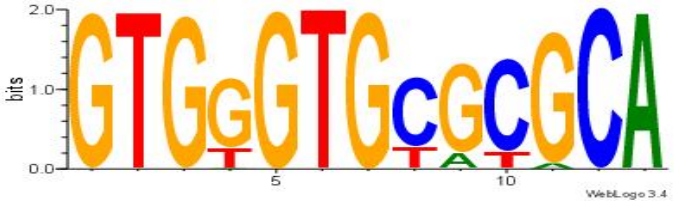

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

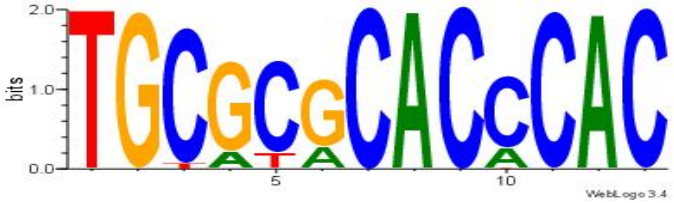

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0980566

Alignment:
GAAHCAACCKAAKTGTCCAT
---------GTATWTACCCA

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

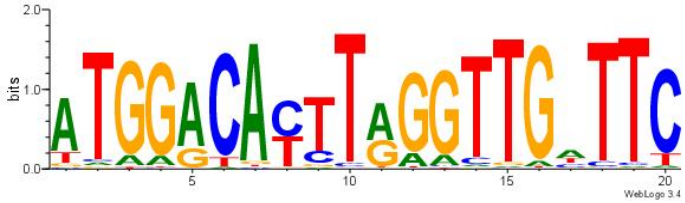

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

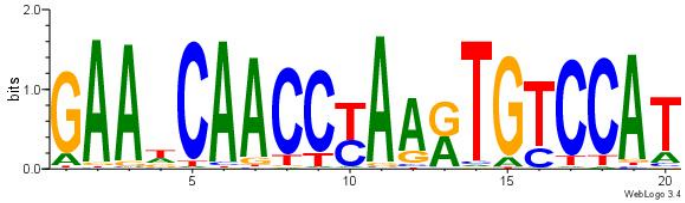

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0984812

Alignment:
ATGGTGAAACCC
TGGGTAWATAC-

Original motif Consensus sequence: ATGGTGAAACCC

Reverse complement motif Consensus sequence: GGGTTTCACCAT

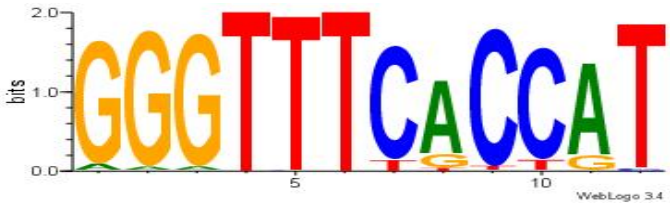

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.100603

Alignment:

```
ACACCTATTCGCACAC
----GTATWTACCCA-
```

Original motif Consensus sequence: ACACCTATTCGCACAC

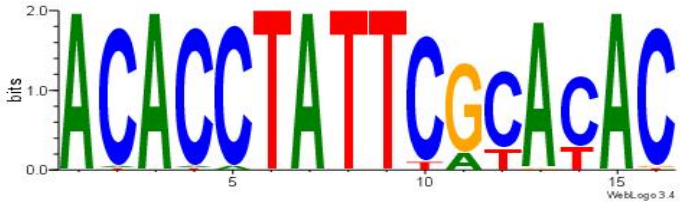

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

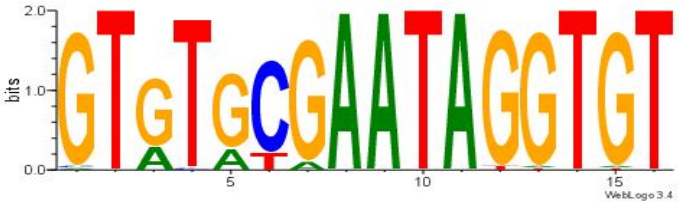

Dataset #: 1

Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.100752

Alignment:

```
GCTGATAAAGAC
-TGGGTAWATAC
```

Original motif Consensus sequence: GCTGATAAAGAC

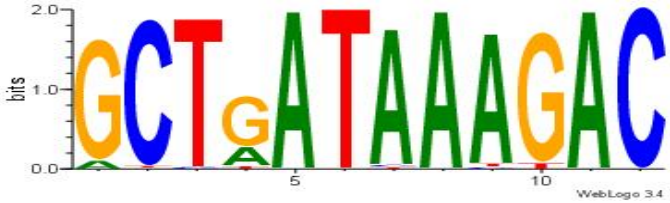

Reverse complement motif Consensus sequence: GTCTTTATCAGC

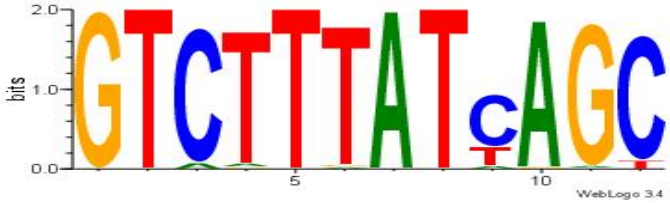

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.101528

Alignment:
CATTAGATTCTCATAGGA
--GTATWTACCCA-----

Original motif Consensus sequence: CATTAGATTCTCATAGGA

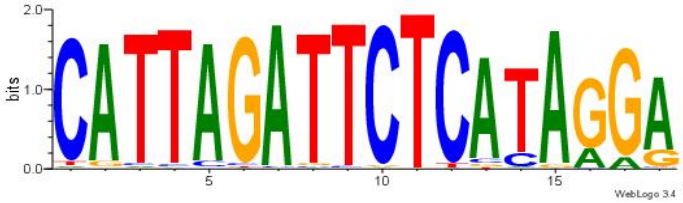

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

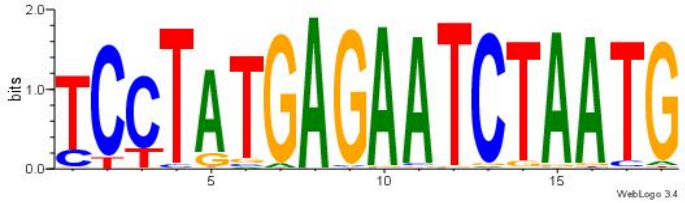

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101616

Alignment:
GTTGGATTCCCAG
-GTATWTACCCA-

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.103306

Alignment:

```
ATCCATCCATCCATCCA
--GTATWTACCCA----
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

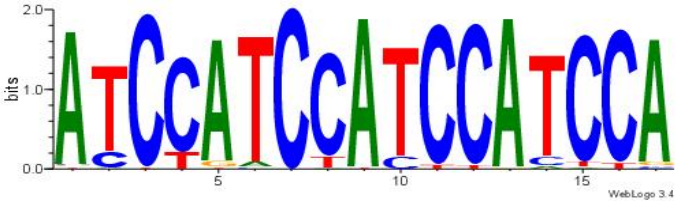

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.103838

Alignment:

```
MGTGTGATGTCTCCCCC
------GTATWTACCCA
```

Original motif Consensus sequence: GGGGGAGACATCACACR

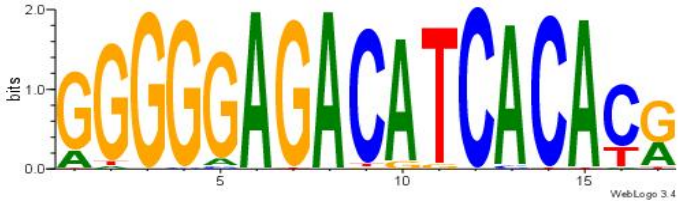

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

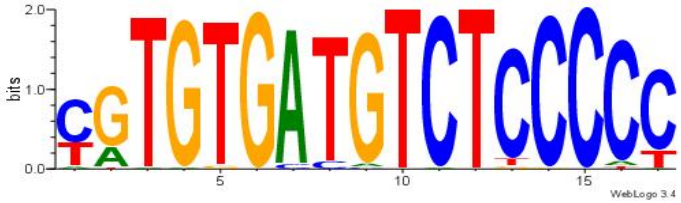

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.106352

Alignment:
AGGAGCGCCTCTKCCCGGC
------GTATWTACCCA--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

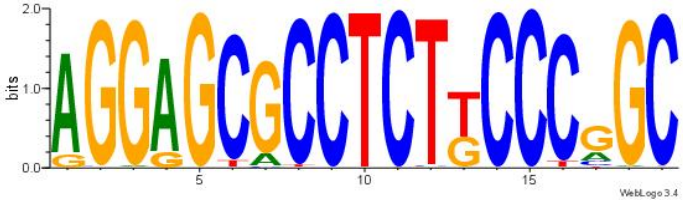

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

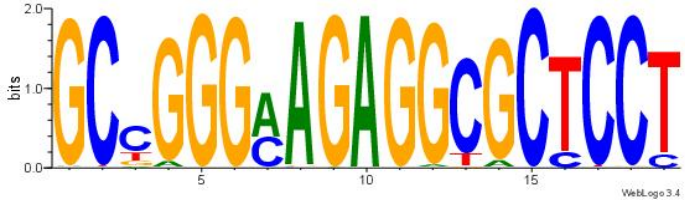

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.1069

Alignment:
GAAAGGGAACTCCCTGACCC
-------TGGGTAWATAC--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

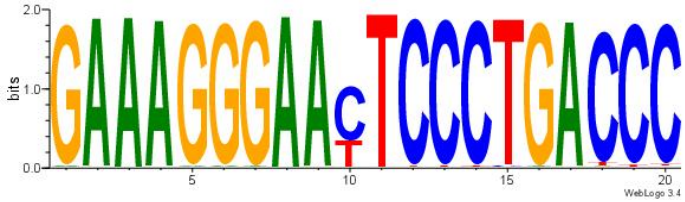

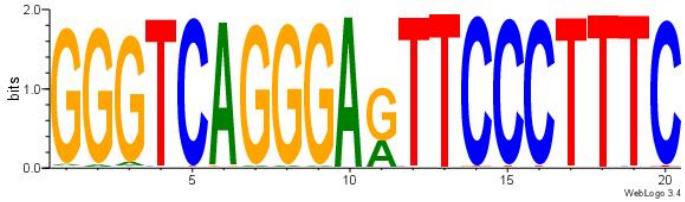

Dataset #:	1
Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.108133

Alignment:

```
TGGGGACMCAG
TGGGTAWATAC
```

Original motif Consensus sequence: CTGYGTCCCCA

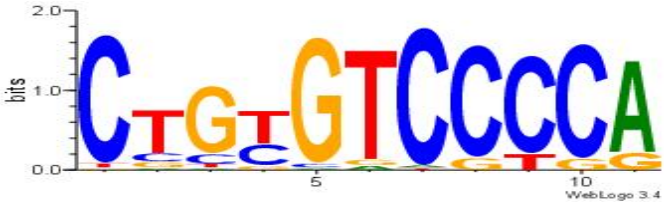

Reverse complement motif Consensus sequence: TGGGGACMCAG

Dataset #:	1
Motif ID:	182

Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.108815

Alignment:

```
TGGGTTCYTGGTC
TGGGTAWATAC--
```

Original motif Consensus sequence: GACCAMGAACCCA

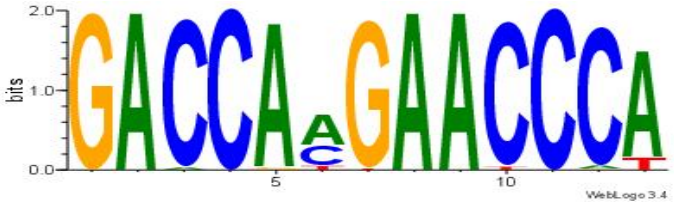

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

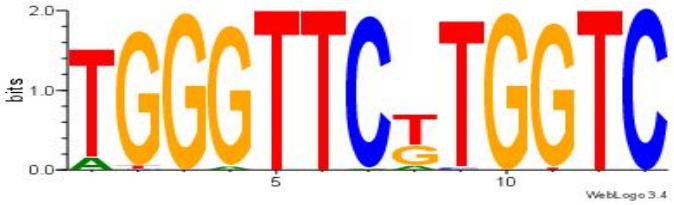

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.109018

Alignment:
AGCAGYTTGGAAACACT
-----TGGGTAWATAC-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

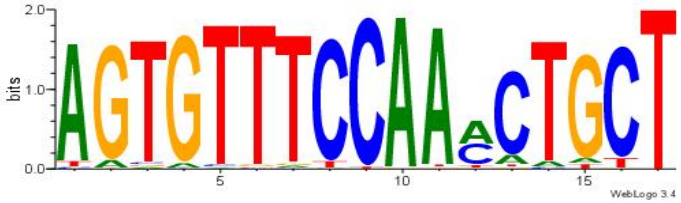

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

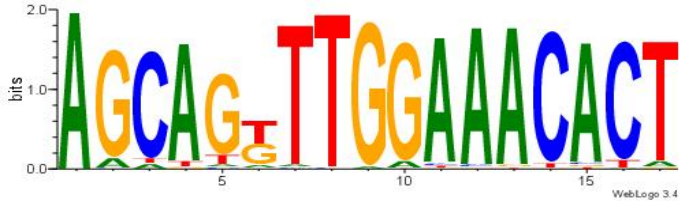

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.109185

Alignment:
TGTATTAGTCMMTT
--GTATWTACCCA-

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

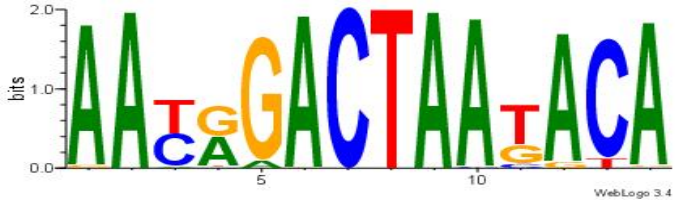

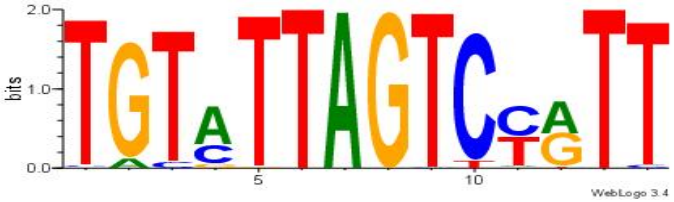

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.109367

Alignment:

```
AAGGAACAAACTCCRGACAC
---------TGGGTAWATAC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

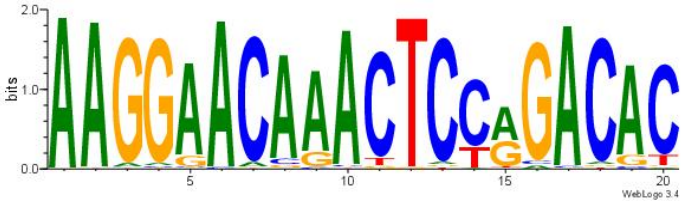

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

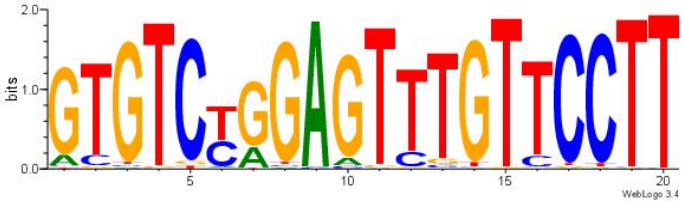

Dataset #:	1

Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.109508

Alignment:

```
RCAGTGTACACTGY
TGGGTAWATAC---
```

Original motif Consensus sequence: RCAGTGTACACTGY

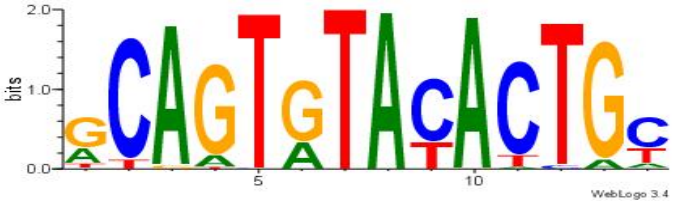

Reverse complement motif Consensus sequence: KCAGTGTACACTG

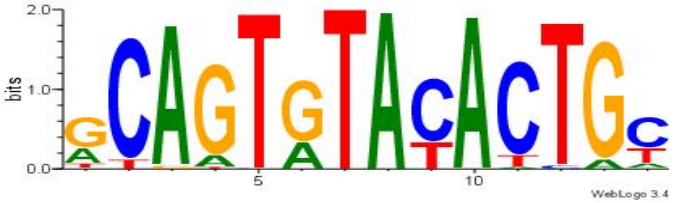

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.110317

Alignment:
CCTGTAATCCCAGC
--GTATWTACCCA-

Original motif Consensus sequence: GCTGGGATTACAGG

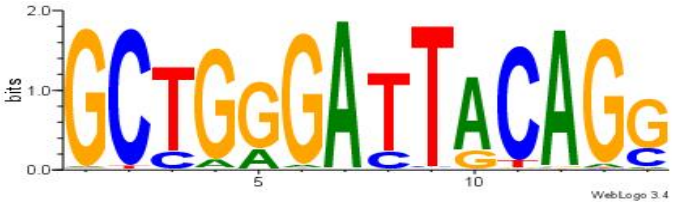

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.110426

Alignment:
CTGACTGGGAGACACCTCCC
----TGGGTAWATAC-----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

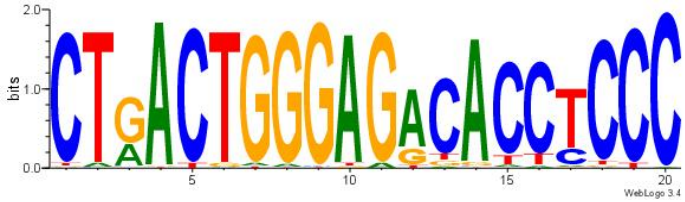

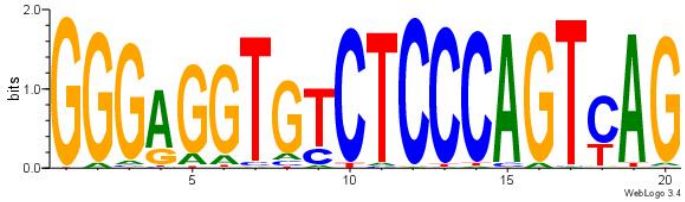

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.111327

Alignment:

```
GCACTCTGTMTCTAGCT
----TGGGTAWATAC--
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

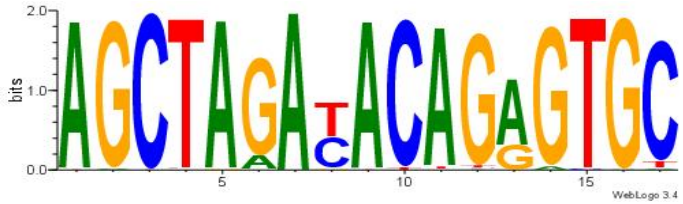

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

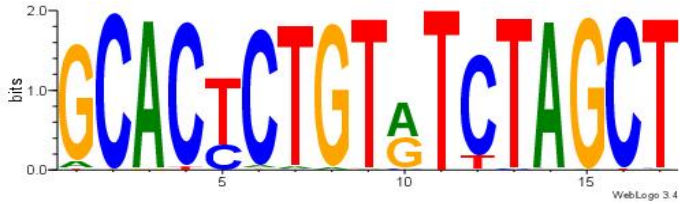

Dataset #:	1

Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.111581

Alignment:

```
TGATGGGTGCACCAAA
---TGGGTAWATAC--
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

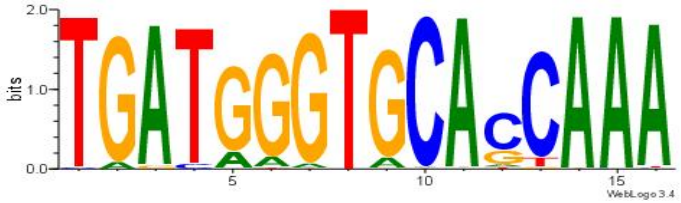

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

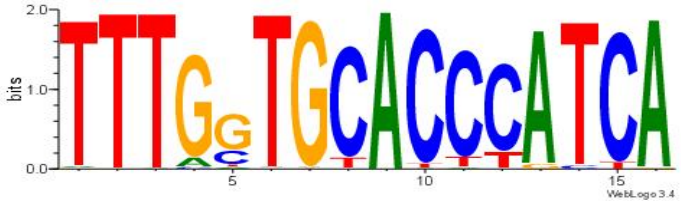

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.113491

Alignment:
GATGTGTCTGGAG
--TGGGTAWATAC

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

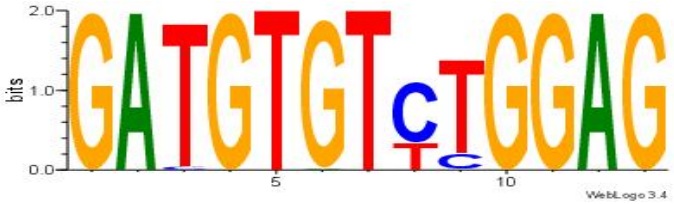

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.114036

Alignment:
ATGTAACCAAAYACCACCTG
---TGGGTAWATAC------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

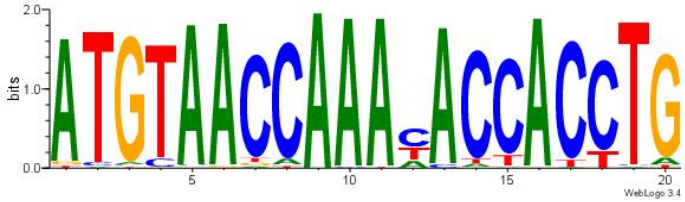

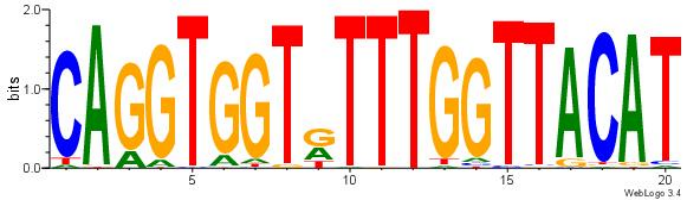

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.114352

Alignment:

```
CAAGTTGACACATAAAATTA
----TGGGTAWATAC-----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

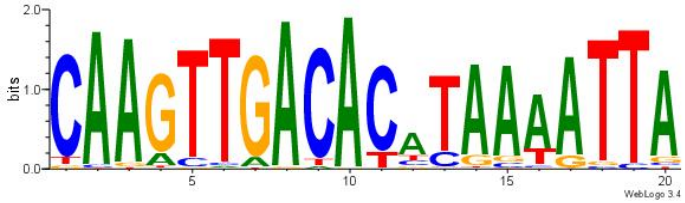

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

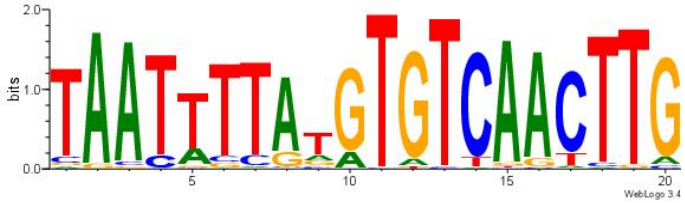

Dataset #: 1

Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.114362

Alignment:

```
CTGTCAGCCCAT
GTATWTACCCA-
```

Original motif Consensus sequence: CTGTCAGCCCAT

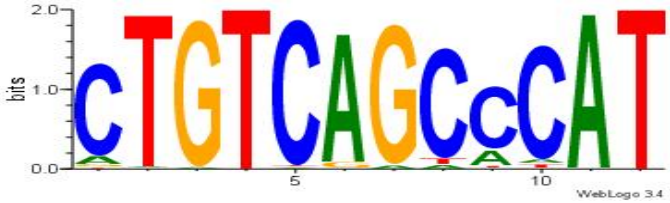

Reverse complement motif Consensus sequence: ATGGGCTGACAG

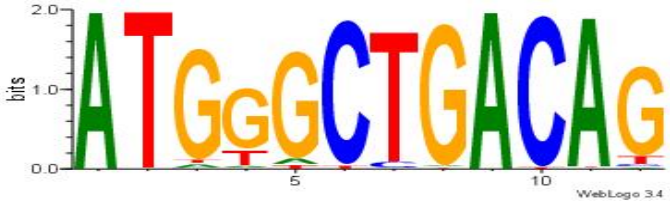

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.114435

Alignment:
GACTTCAAGAATGAAGCCG
--------GTATWTACCCA

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

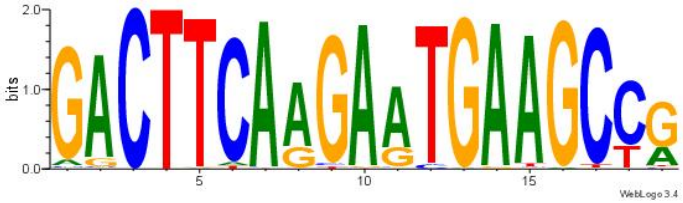

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

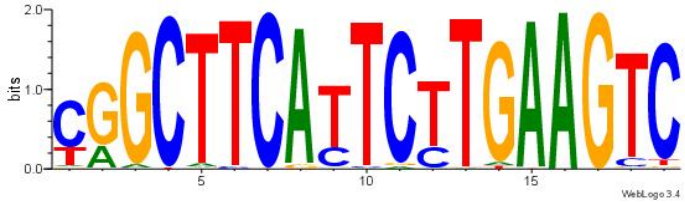

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.11475

Alignment:
TGAGKCAATTAAACCTCTT
TGGGTAWATAC--------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

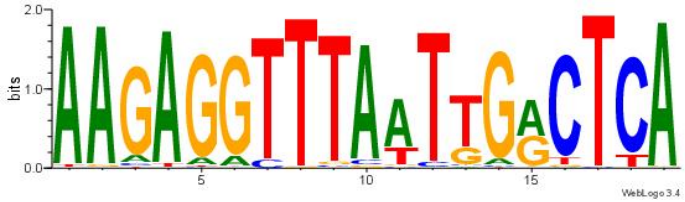

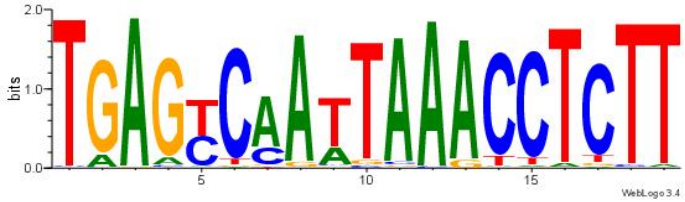

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.114805

Alignment:

```
GATACAAAATCAATGTR
-GTATWTACCCA-----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

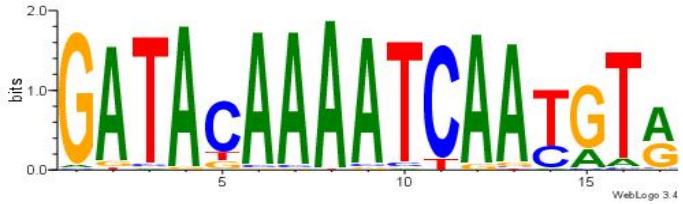

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

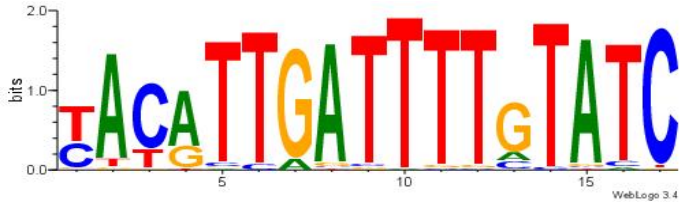

Dataset #: 1

Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.115139

Alignment:

```
TTGAGAACCACTG
TGGGTAWATAC--
```

Original motif Consensus sequence: CAGTGGTTCTCAA

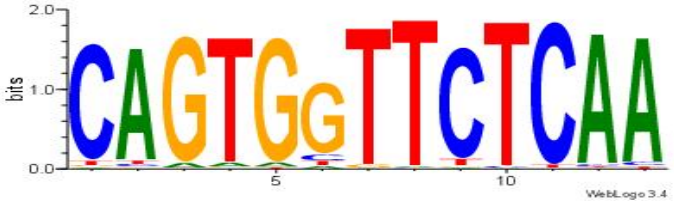

Reverse complement motif Consensus sequence: TTGAGAACCACTG

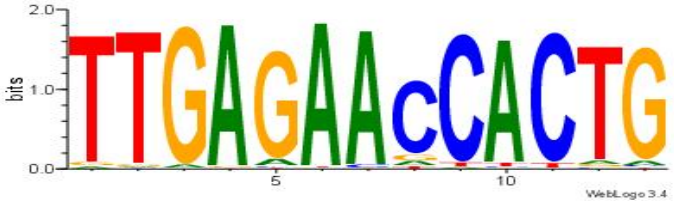

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.115164

Alignment:
TGHCCTGCKCCCACTGTCT
------GTATWTACCCA--

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

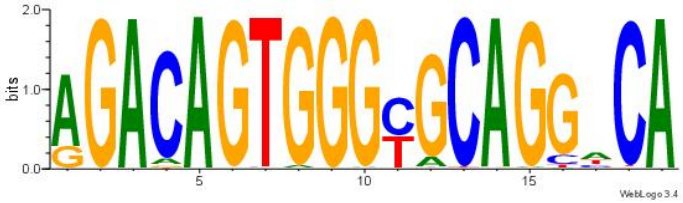

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

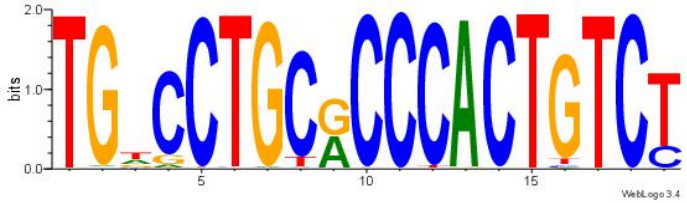

Dataset #: 1 Motif ID: 245 Motif name: Motif 245

Original motif Consensus sequence: CAGACTGCCTCCTCAA

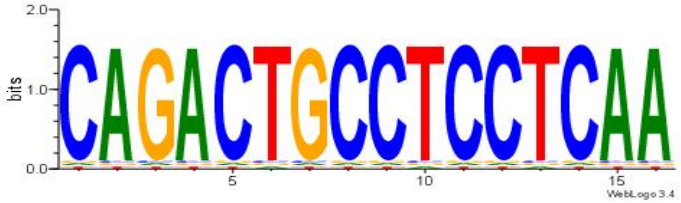

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

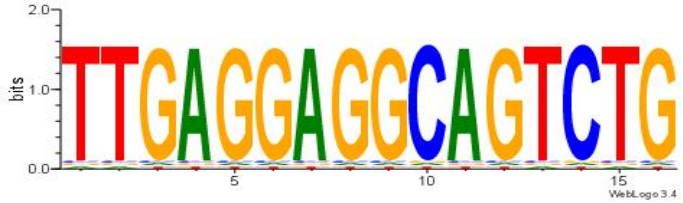

Best Matches for Motif ID 245 (Highest to Lowest)

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0807607

Alignment:
ATGTGGAGGTGGAAGACAGT
---TTGAGGAGGCAGTCTG-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

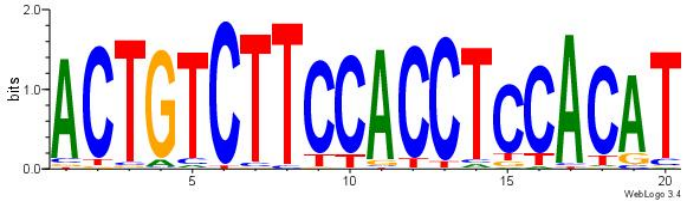

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

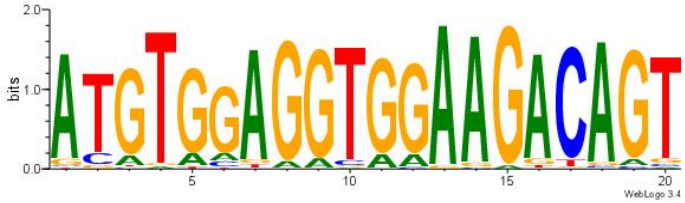

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0972589

Alignment:
AAGCTGAGGGAGCCGGCTCC
-TTGAGGAGGCAGTCTG---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

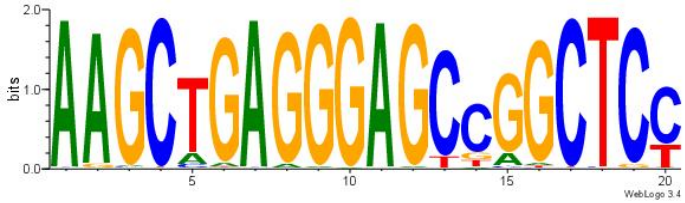

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

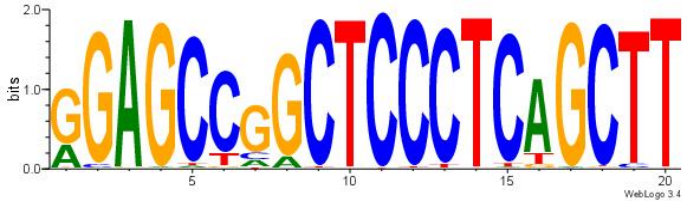

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0988443

Alignment:

```
AATTAAAAGACACAGACTG
---TTGAGGAGGCAGTCTG
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

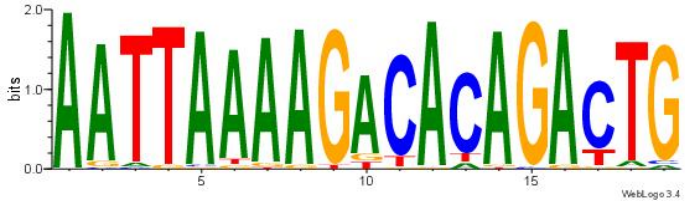

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

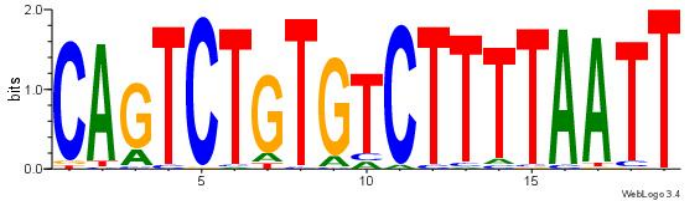

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.100811

Alignment:

```
ACTCAGCCCRCCTGCACCC
---CAGACTGCCTCCTCAA
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

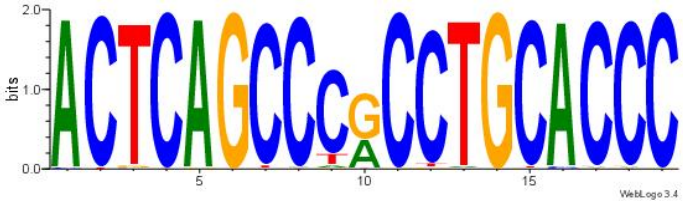

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

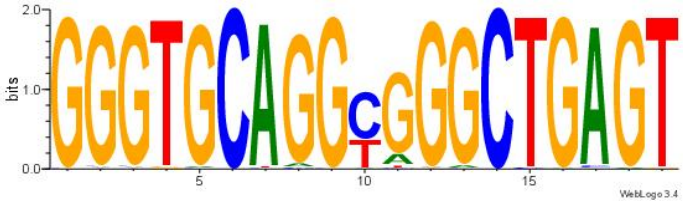

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.105987

Alignment:
ACACATCACAAAGCAGTTTC
TTGAGGAGGCAGTCTG----

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

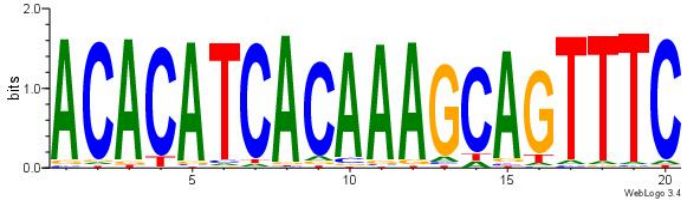

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

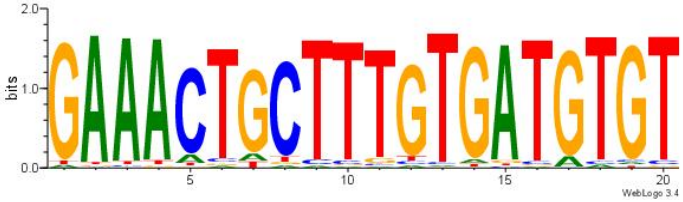

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.10938

Alignment:
GGAGGTGTGGAGGGAGAGGC
----TTGAGGAGGCAGTCTG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

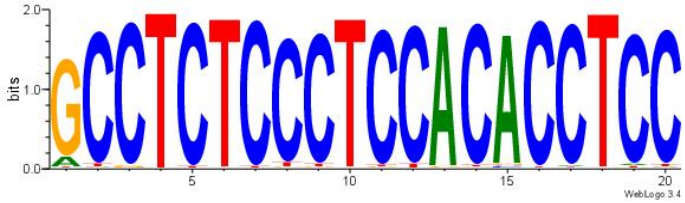

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

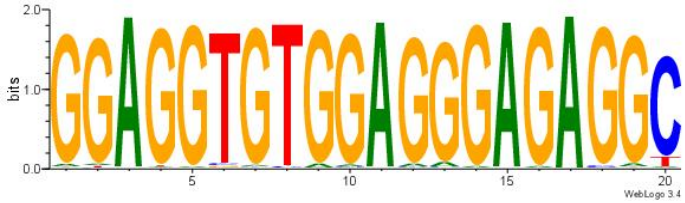

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.10982

Alignment:

```
CAAGTTGACACATAAAATTA
CAGACTGCCTCCTCAA----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

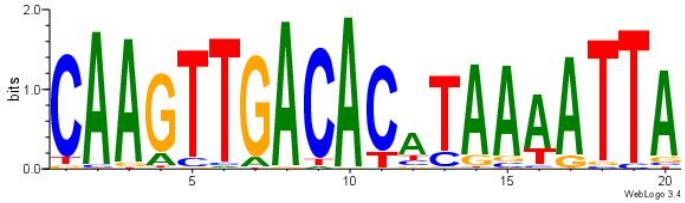

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

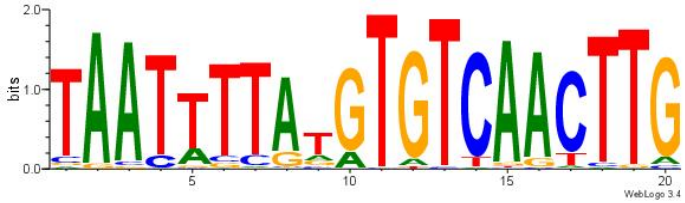

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.111009

Alignment:

```
ACAGGCTGTCCCAGGATTC
--CAGACTGCCTCCTCAA-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

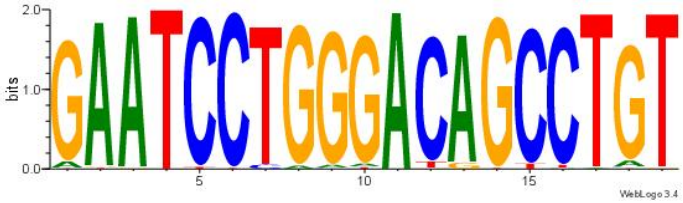

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

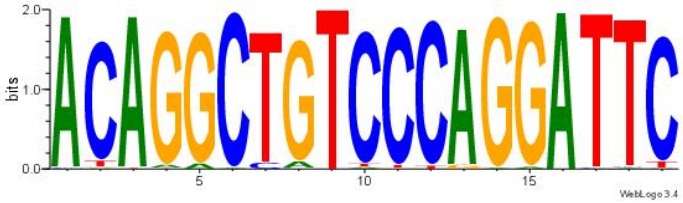

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.111235

Alignment:
GGTGGAGCTGCCTGCCAGTC
--TTGAGGAGGCAGTCTG--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

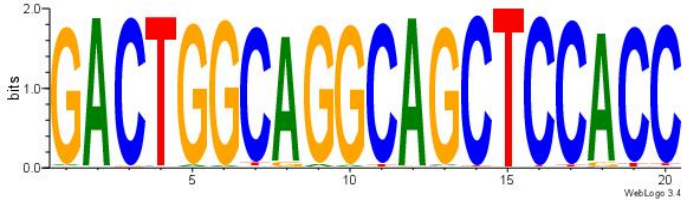

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

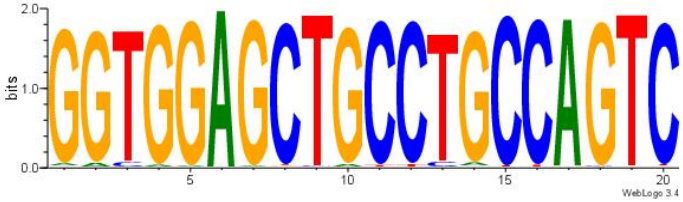

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.11302

Alignment:
GTTGTGAGGATTAAATGAG
---TTGAGGAGGCAGTCTG

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

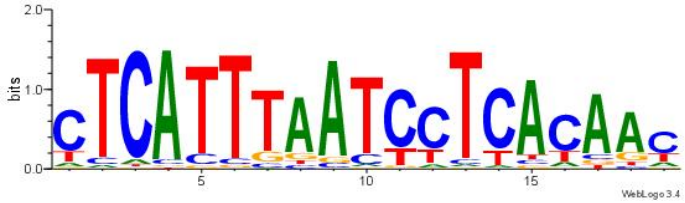

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

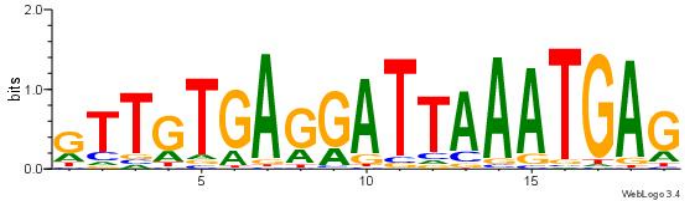

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.11393

Alignment:

```
GGGGGCTGACCCCCCCACC
-CAGACTGCCTCCTCAA--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

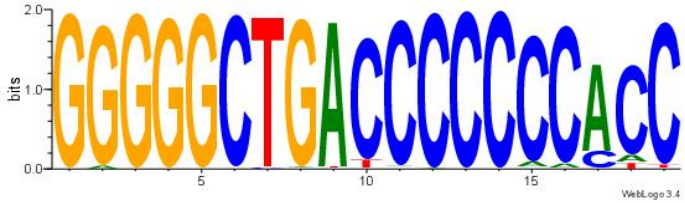

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

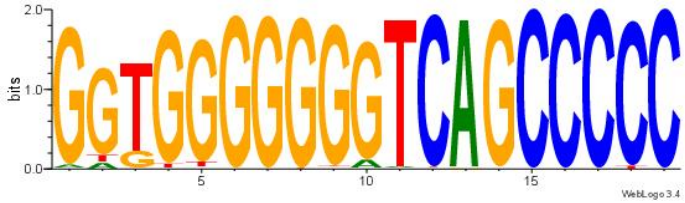

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.116074

Alignment:

```
ATTCAASATGAGATTTGGG
-TTGAGGAGGCAGTCTG--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

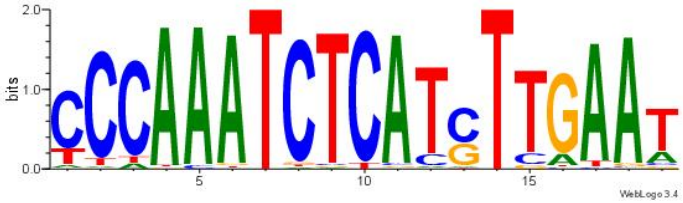

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

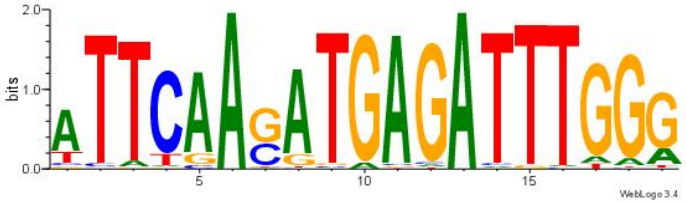

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.116527

Alignment:
CCCMKGGCACCCTCAGTCCT
CAGACTGCCTCCTCAA----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

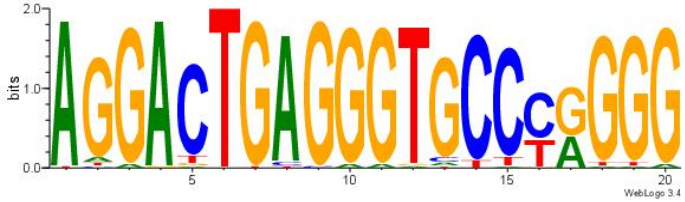

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

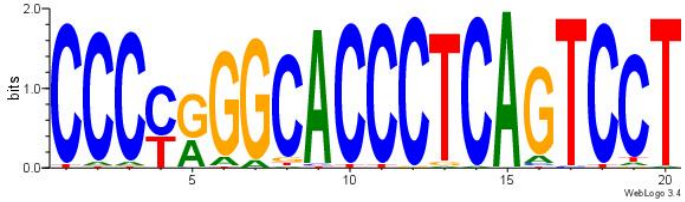

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.116971

Alignment:
CGGCTTCATTCTTGAAGTC
---CAGACTGCCTCCTCAA

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

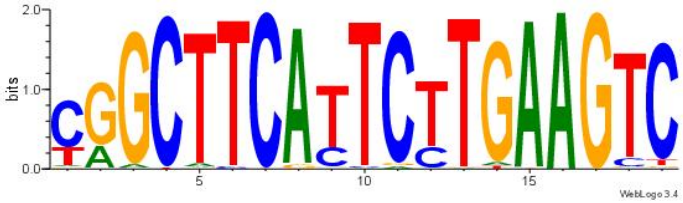

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.117555

Alignment:

```
GCCGGGRAGAGGCGCTCCT
---TTGAGGAGGCAGTCTG
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

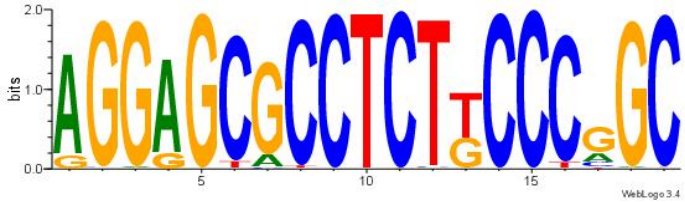

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

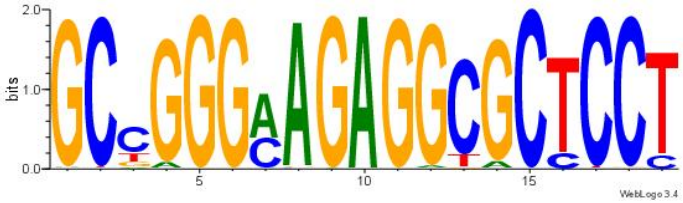

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.1192

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---CAGACTGCCTCCTCAA-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

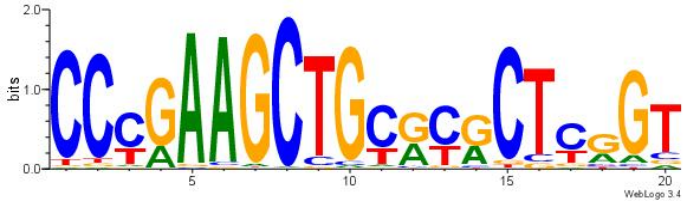

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

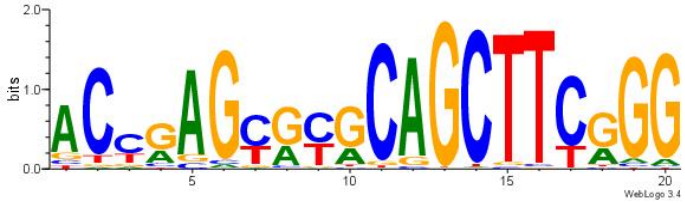

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.119968

Alignment:
GGGAGGAAGGGGACAC
TTGAGGAGGCAGTCTG

Original motif Consensus sequence: GGGAGGAAGGGGACAC

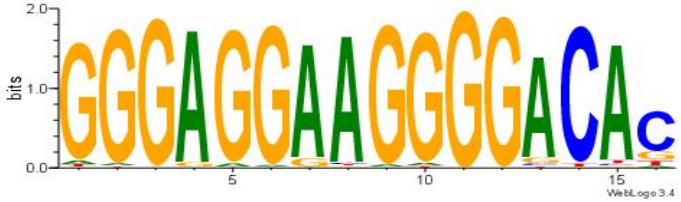

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

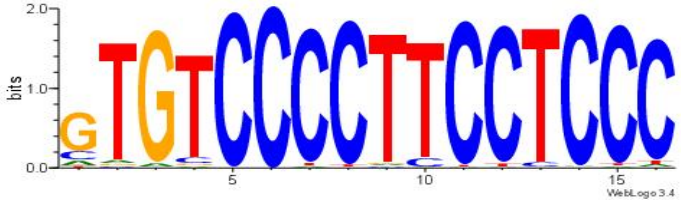

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.120089

Alignment:
ATGATCCAGCAATYCCACTH
----TTGAGGAGGCAGTCTG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

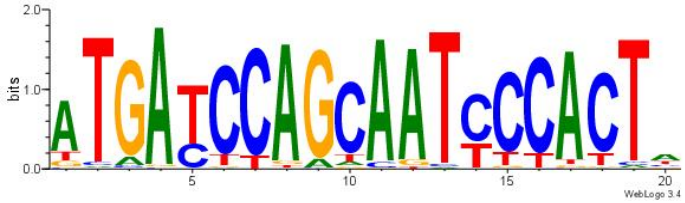

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

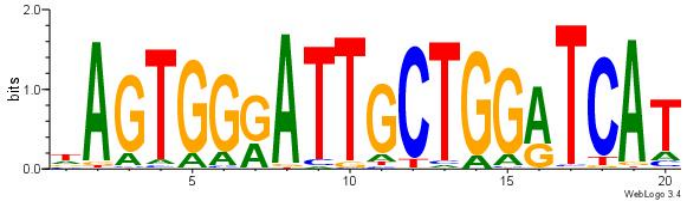

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.120618

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
----CAGACTGCCTCCTCAA
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

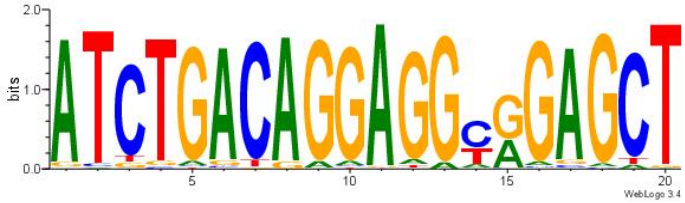

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

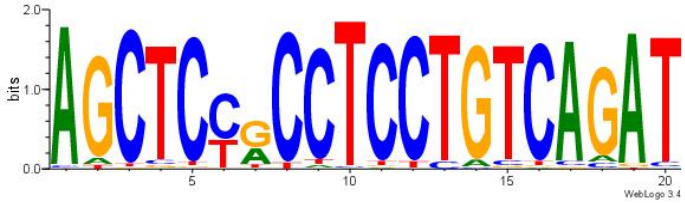

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.121882

Alignment:

```
TGCTGGAGGTCCACTCCAGA
--CAGACTGCCTCCTCAA--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

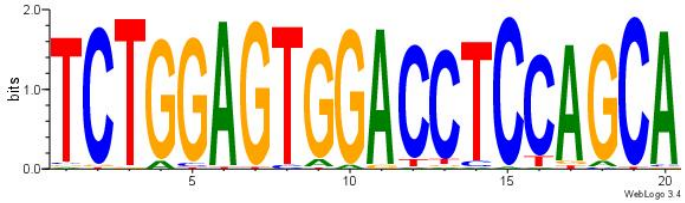

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

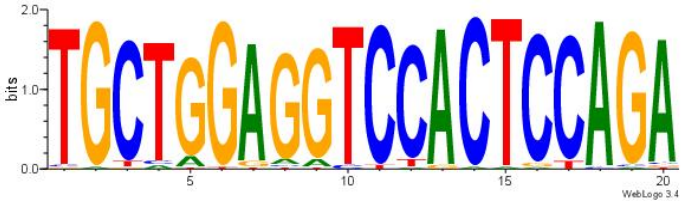

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.122

Alignment:
CCCACGCCCACCCGGAACT
---CAGACTGCCTCCTCAA

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

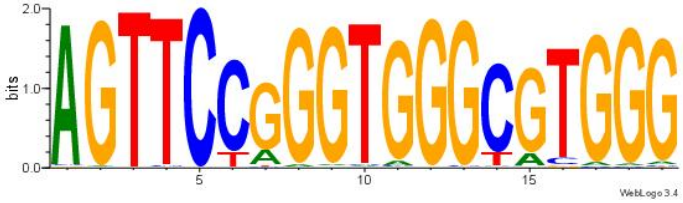

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

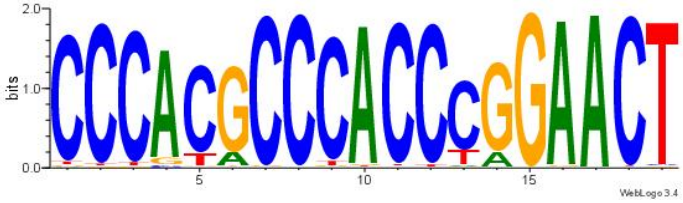

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.122461

Alignment:
MTCCTCCAGACCCCAGAATG
--CAGACTGCCTCCTCAA--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

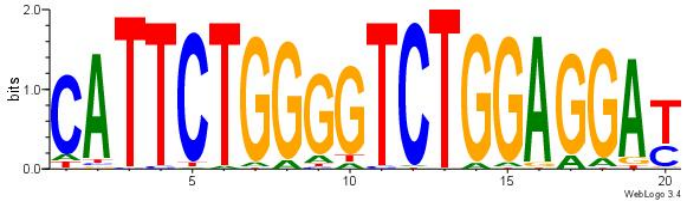

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

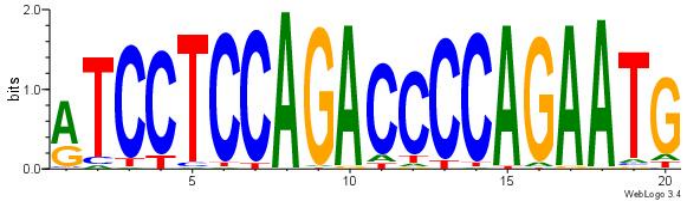

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.122761

Alignment:

```
CAAAGTCTTAACTCATT
-CAGACTGCCTCCTCAA
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

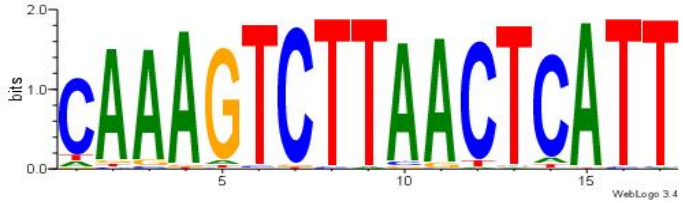

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.12306

Alignment:

```
CCCTGCTAGAACCTCCAA
-CAGACTGCCTCCTCAA-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

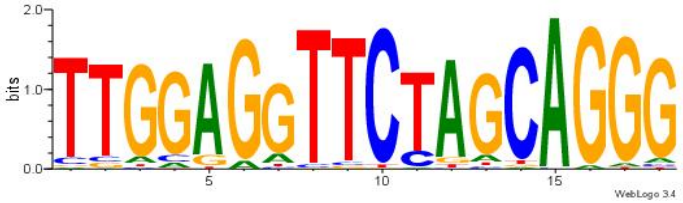

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.12321

Alignment:
CTGTTTGCCTGGGTATCA
CAGACTGCCTCCTCAA--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

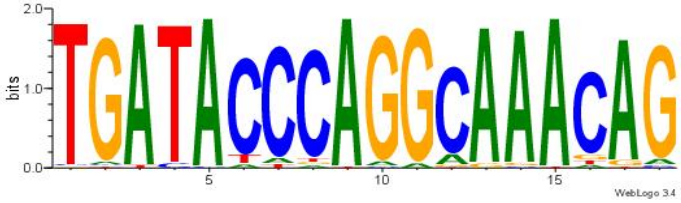

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

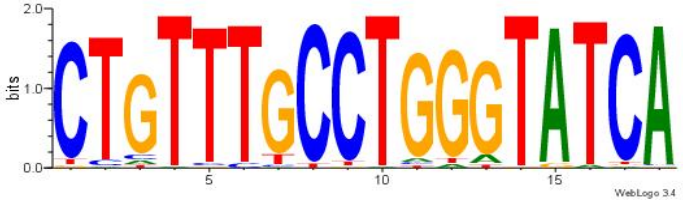

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.123224

Alignment:
GTTGGCCAGGCTGGTCT
-TTGAGGAGGCAGTCTG

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

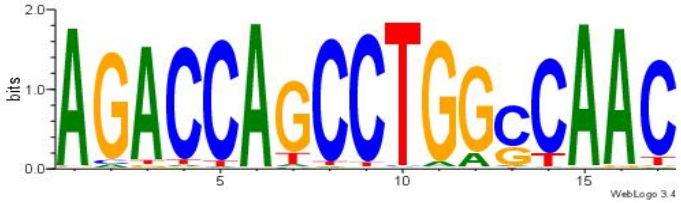

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

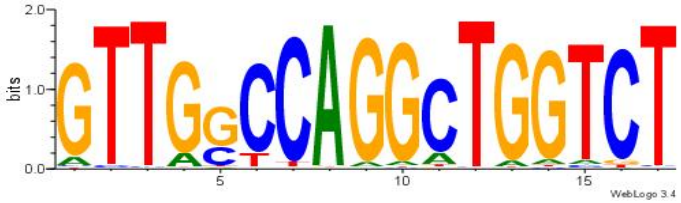

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.123327

Alignment:

```
AGTTGTAATTGGGAGACTT
TTGAGGAGGCAGTCTG---
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

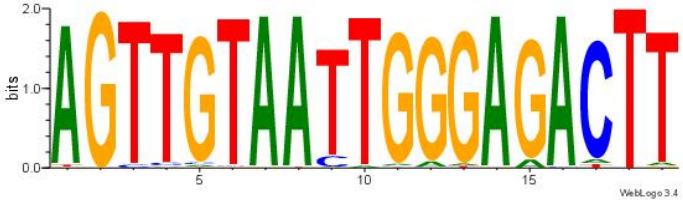

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

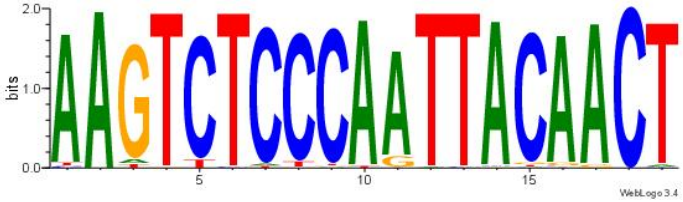

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.123518

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CAGACTGCCTCCTCAA----
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

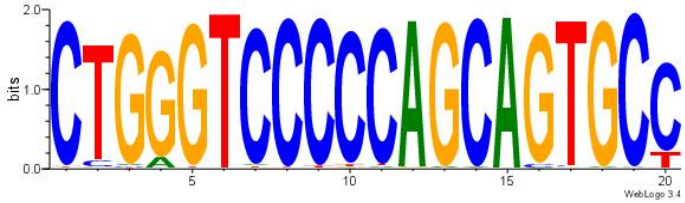

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

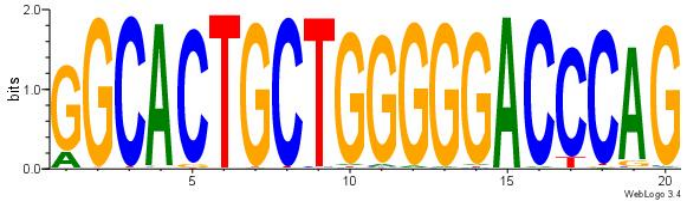

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.124016

Alignment:
GGGAGGTGTCTCCCAGTCAG
TTGAGGAGGCAGTCTG----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

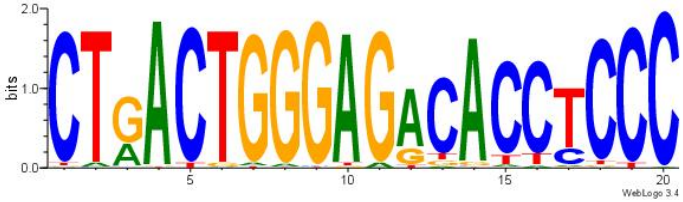

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

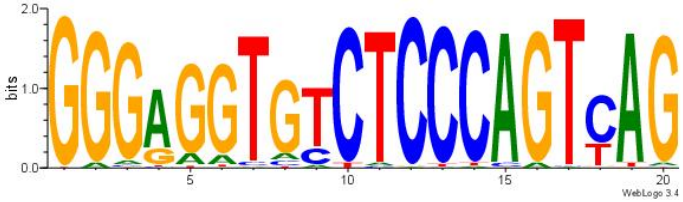

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.124485

Alignment:
VCCDCCTCCKCCTCCTC
-CAGACTGCCTCCTCAA

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

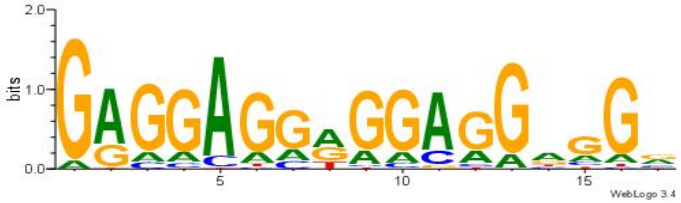

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

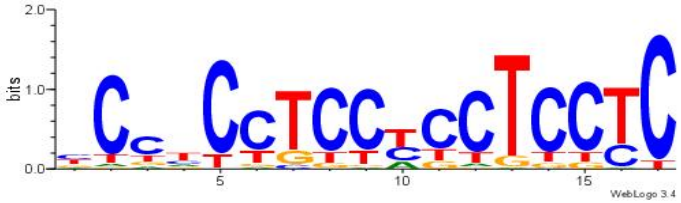

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.124491

Alignment:

```
CTTGGGTGGTCGATGGGAC
-TTGAGGAGGCAGTCTG--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

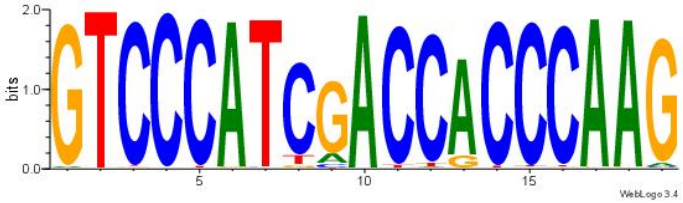

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

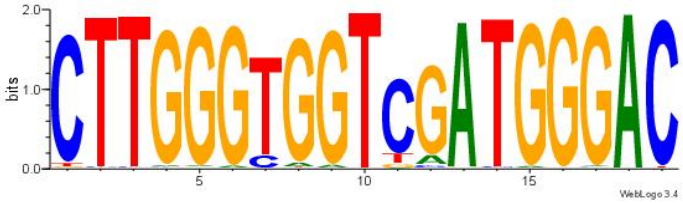

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.124757

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
---TTGAGGAGGCAGTCTG-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

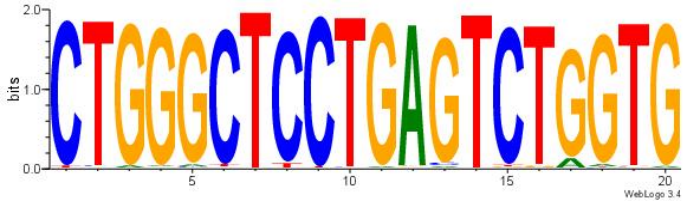

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

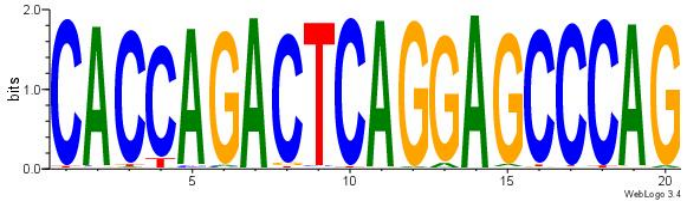

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.125586

Alignment:
GTGGCCCTCTTCTCACAGCT
CAGACTGCCTCCTCAA----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

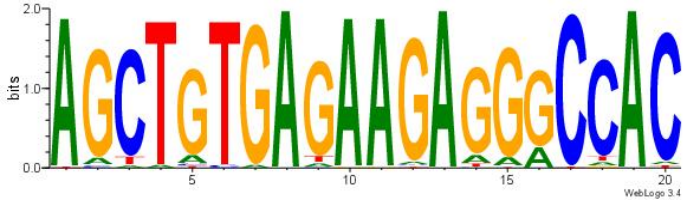

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

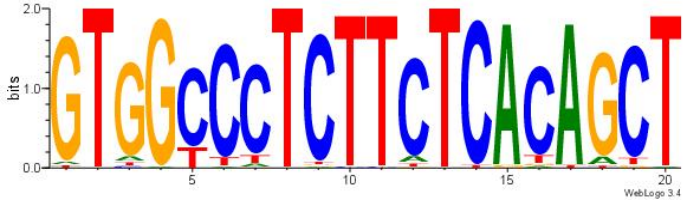

Dataset #: 1
Motif ID: 249
Motif name: Motif 249
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.12636

Alignment:
TTGGTGGTCTCTTCACA
CAGACTGCCTCCTCAA-

Original motif Consensus sequence: TGTGAAGAGACCACCAA

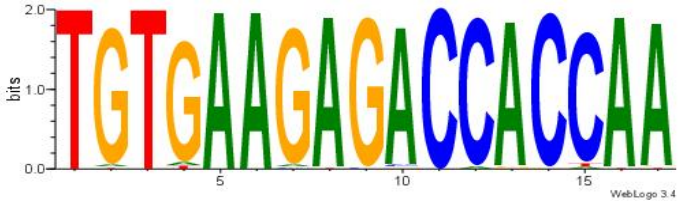

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

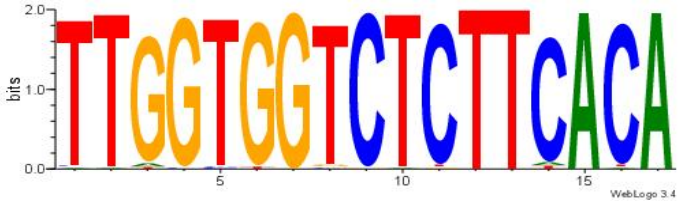

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.126886

Alignment:

```
GTGCCAGGCACTGTKCTARG
----CAGACTGCCTCCTCAA
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

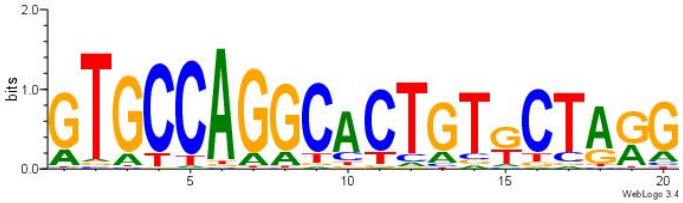

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

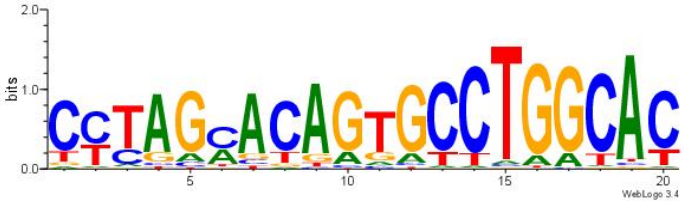

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.127235

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
--TTGAGGAGGCAGTCTG--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

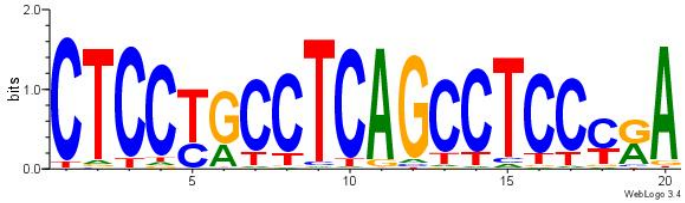

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

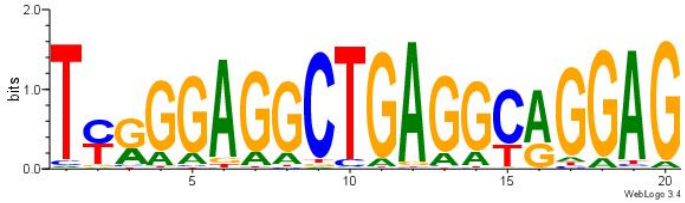

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.128641

Alignment:
GCCACCAMGCCMKGCTAAT
-CAGACTGCCTCCTCAA--

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

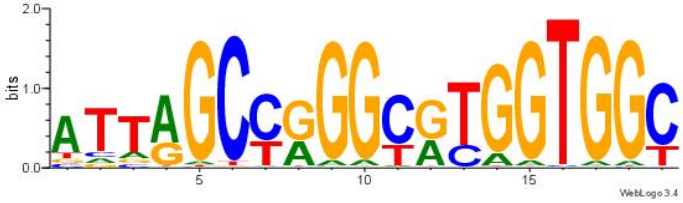

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

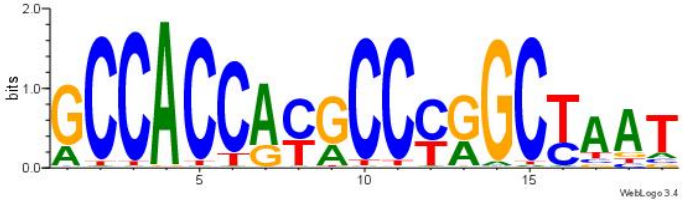

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.128693

Alignment:
AAGCAGGGCGAGGCATTGCC
TTGAGGAGGCAGTCTG----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

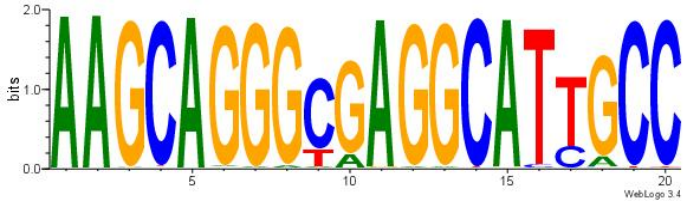

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

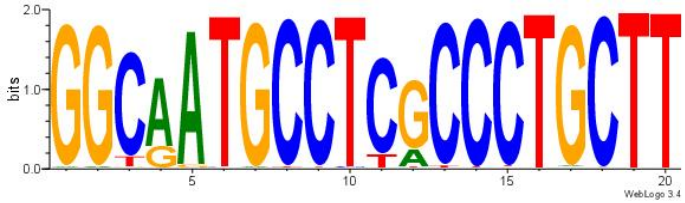

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.128787

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CAGACTGCCTCCTCAA---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

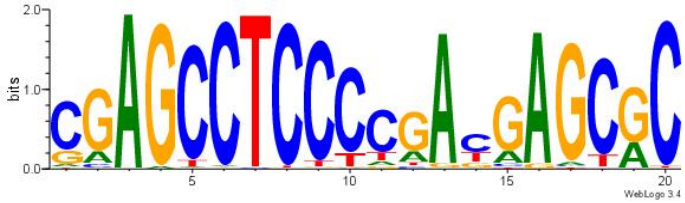

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

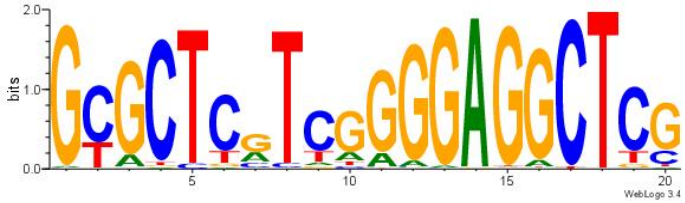

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.129151

Alignment:

```
CTTGCGCTTCCCRRGTGA
-TTGAGGAGGCAGTCTG-
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

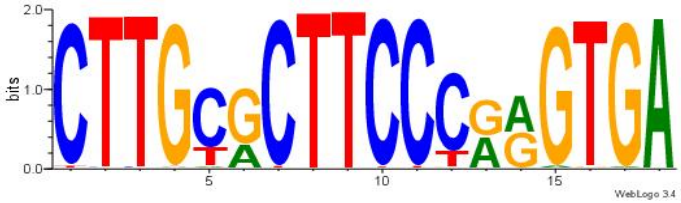

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

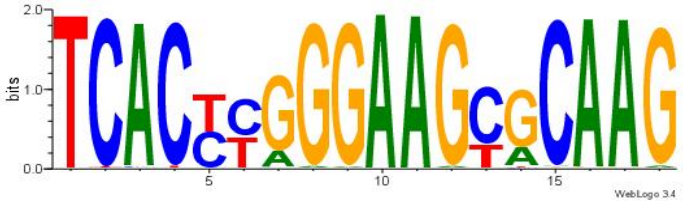

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.130052

Alignment:
GAGACTCCGTGGGCGT
CAGACTGCCTCCTCAA

Original motif Consensus sequence: ACGCCCACGGAGTCTC

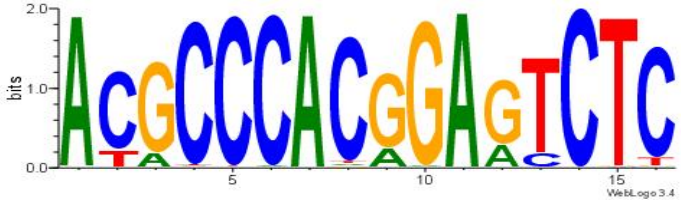

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

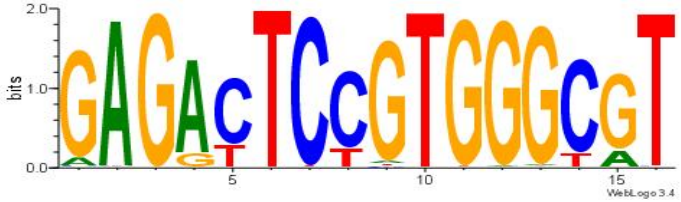

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.131086

Alignment:
AGGTCCTTCAGGAGGTATTC
-TTGAGGAGGCAGTCTG---

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

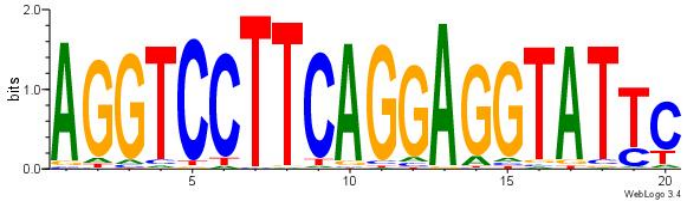

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

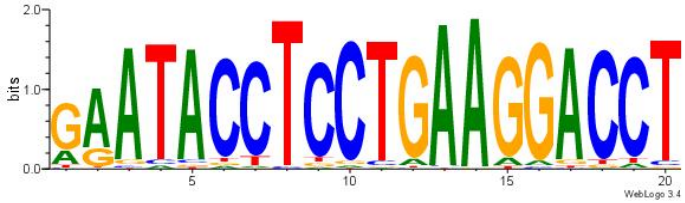

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.131143

Alignment:

```
TAAAAGACTACAWATTGGGT
---CAGACTGCCTCCTCAA-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

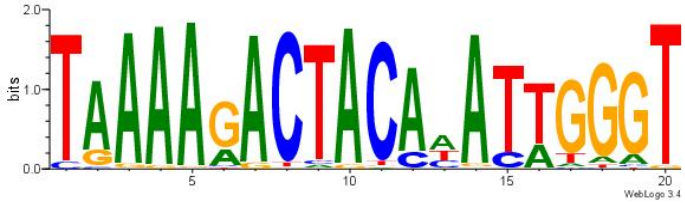

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

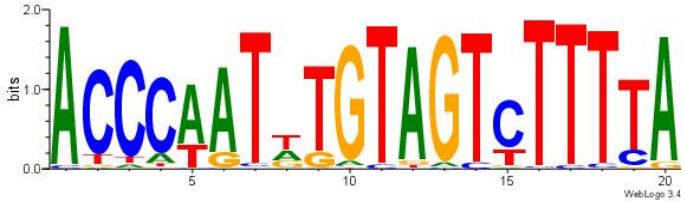

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.131736

Alignment:

```
AAAMAMMKMATGTTCTCACT
-CAGACTGCCTCCTCAA---
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

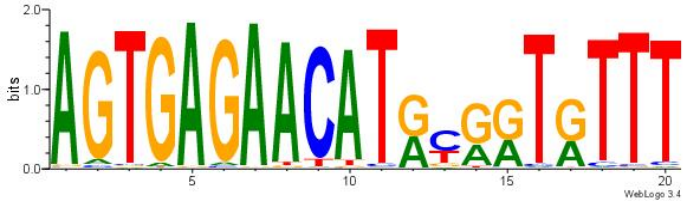

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

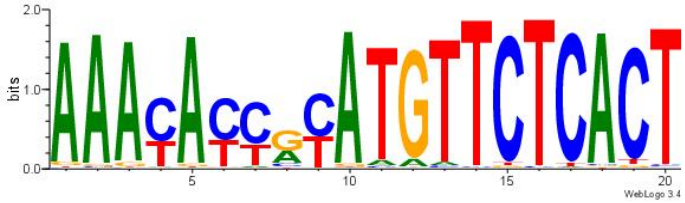

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.132359

Alignment:
AAGTTCTKGGKTACATGTGC
---TTGAGGAGGCAGTCTG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

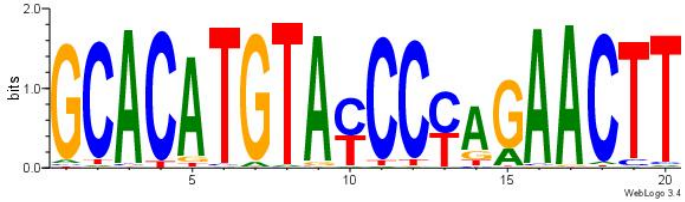

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

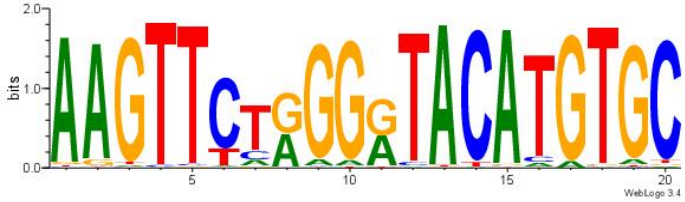

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.132577

Alignment:
GAAHCAACCKAAKTGTCCAT
CAGACTGCCTCCTCAA----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

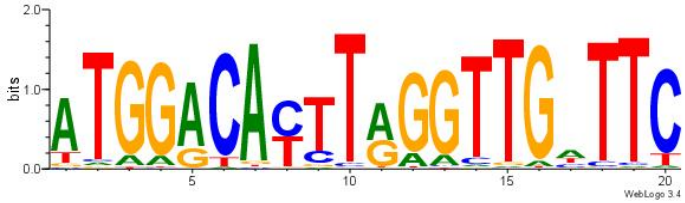

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

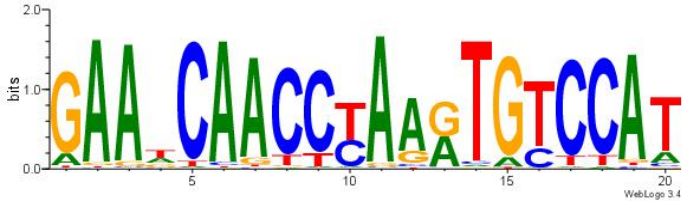

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.132734

Alignment:

```
AATCAACCCTGGYRATCAAT
---CAGACTGCCTCCTCAA-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

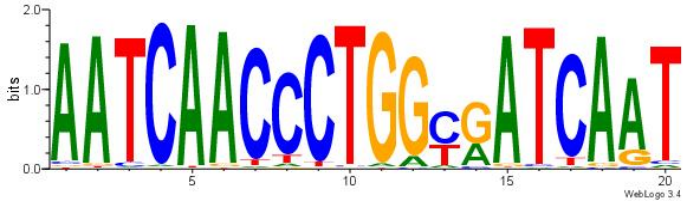

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

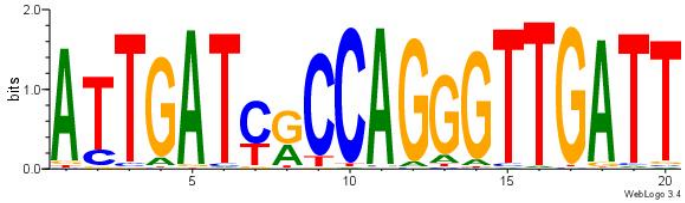

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.133075

Alignment:

```
KGGGCDGAGGGGCTCCT
-TTGAGGAGGCAGTCTG
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

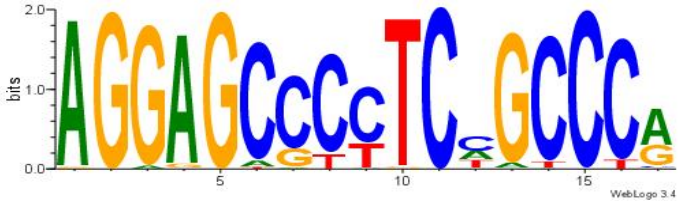

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.133242

Alignment:
MGTCTMKCTCTGTKGCCCAG
-CAGACTGCCTCCTCAA---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

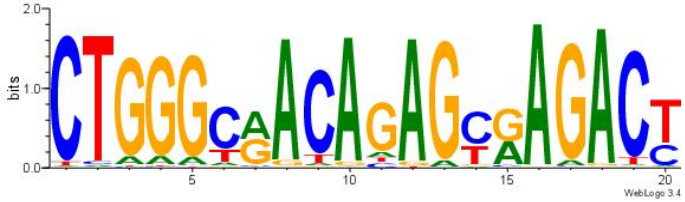

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

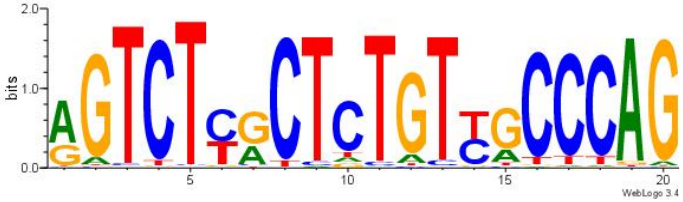

Dataset #: 1
Motif ID: 43
Motif name: Motif 43
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.133632

Alignment:
AGGAGRCMCTCTGCCTGGC
---CAGACTGCCTCCTCAA

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

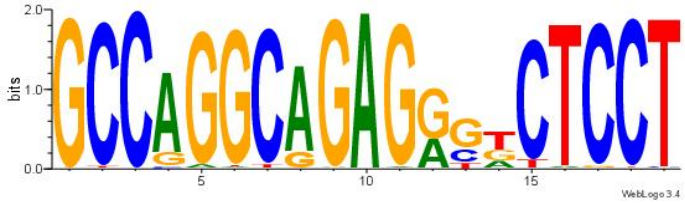

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

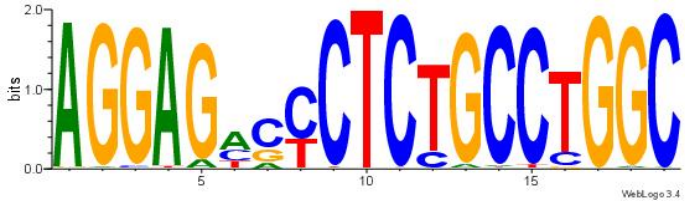

Dataset #: 1 Motif ID: 246 Motif name: Motif 246

Original motif Consensus sequence: GCAGCTTCACTCCTGA

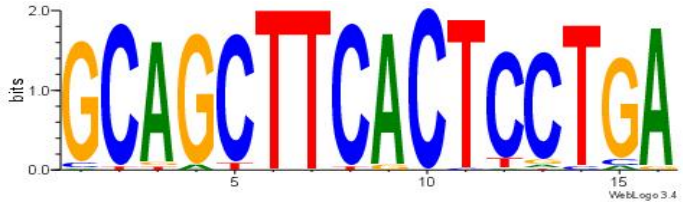

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

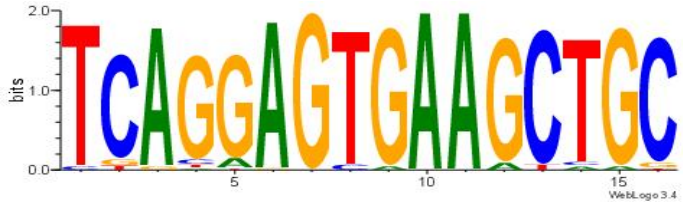

Best Matches for Motif ID 246 (Highest to Lowest)

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0626054

Alignment:
TCTGGAGTGGACCTCCAGCA
TCAGGAGTGAAGCTGC----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

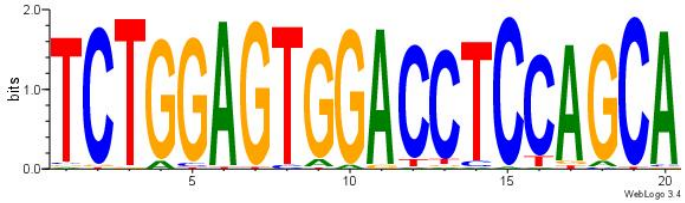

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

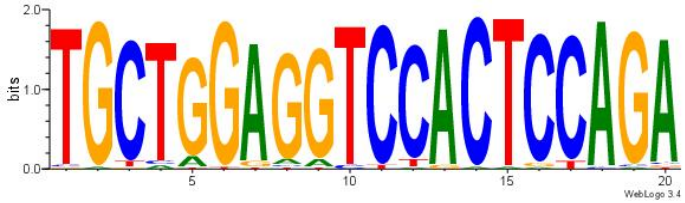

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.0810673

Alignment:
GCTGGAGTGCAGTGGCRYGA
----TCAGGAGTGAAGCTGC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

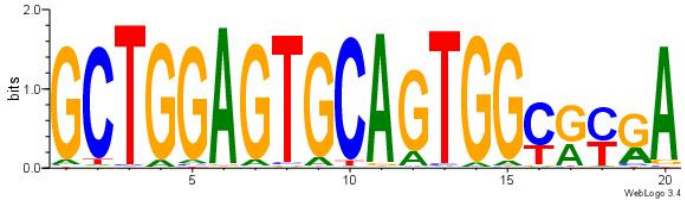

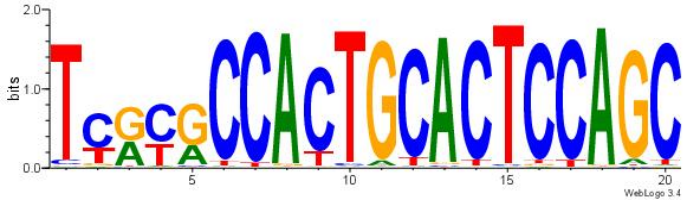

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.087745

Alignment:

```
TCACKMGGGAAGCGCAAG
TCAGGAGTGAAGCTGC--
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

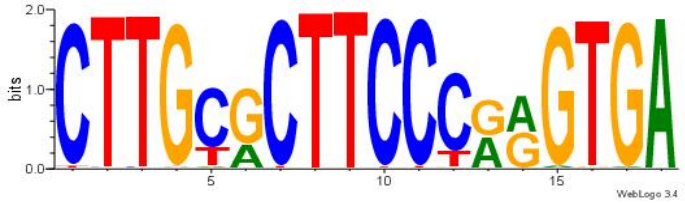

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

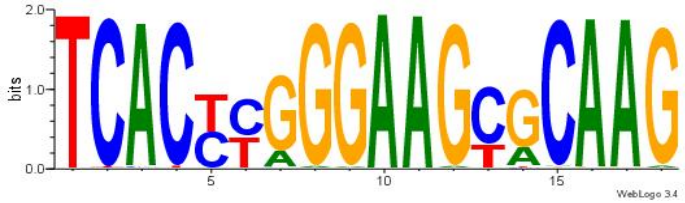

Dataset #:	1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0898189

Alignment:

```
GGTTTTCCATTCCTGAG
-GCAGCTTCACTCCTGA
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

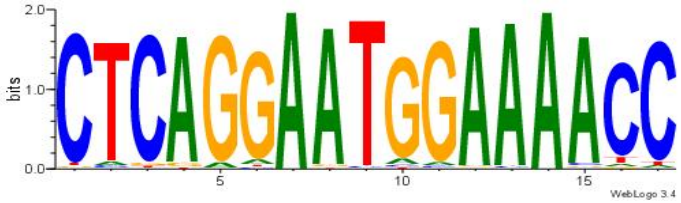

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

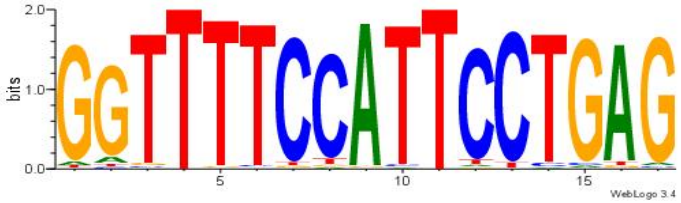

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16

Similarity score: 0.0986718

Alignment:
KCCGGGCCTTAGCTGCCTTC
TCAGGAGTGAAGCTGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

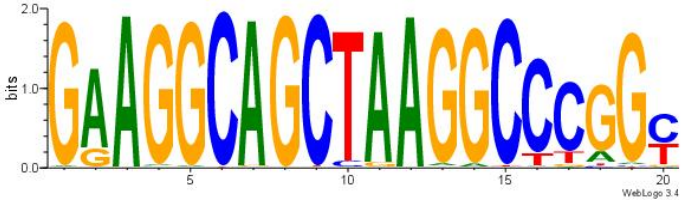

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

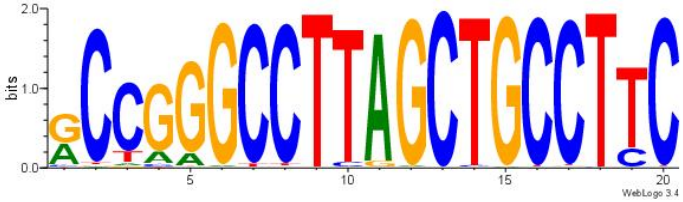

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0991878

Alignment:
GCAGCAMTATTCACAATAG
---GCAGCTTCACTCCTGA

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

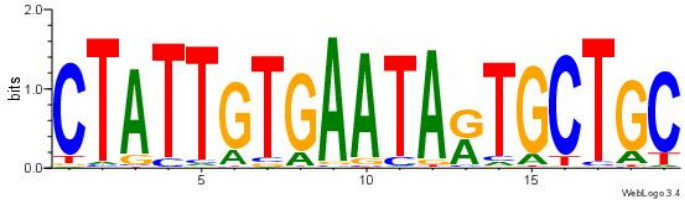

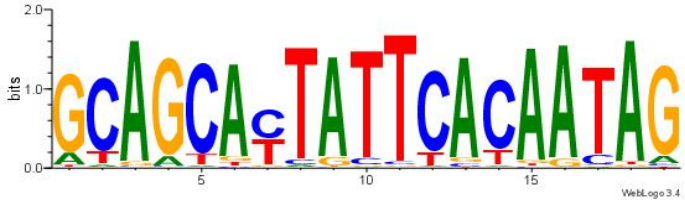

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.100111

Alignment:

```
AAGTTCTKGGKTACATGTGC
----TCAGGAGTGAAGCTGC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

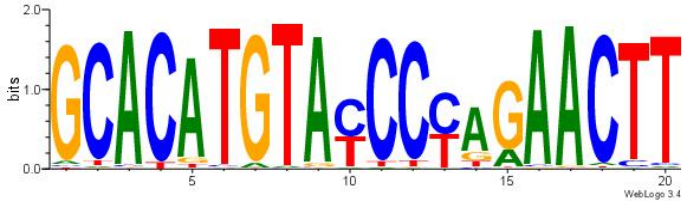

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

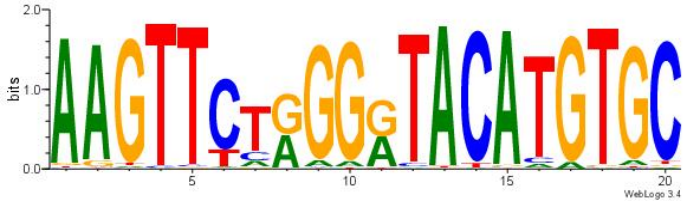

Dataset #:	1

Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.101297

Alignment:

```
AGGCTGTTTTACAGTTAAC
-GCAGCTTCACTCCTGA--
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

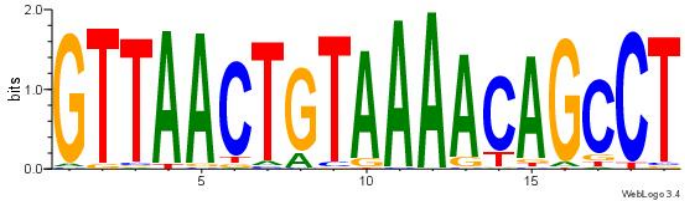

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

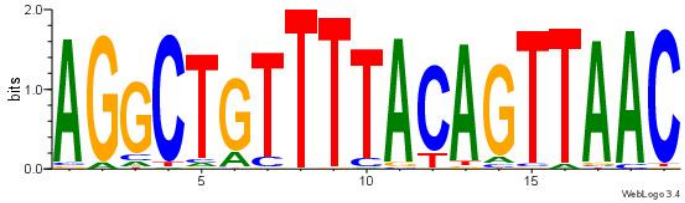

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16

Similarity score: 0.102242

Alignment:
CTCCAGKTMCATCCATGTTG
--GCAGCTTCACTCCTGA--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

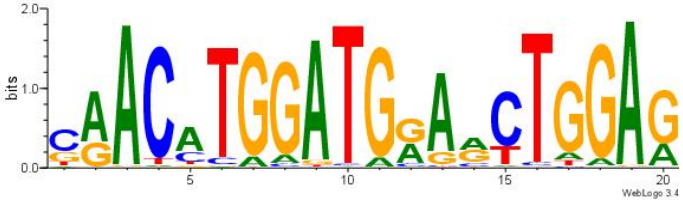

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

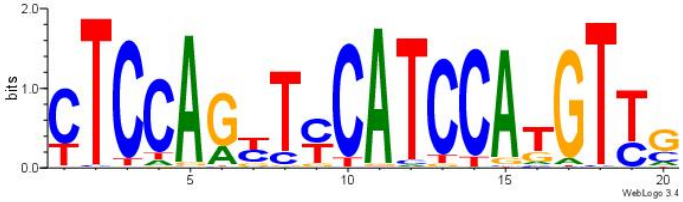

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.106112

Alignment:
CACCAGGAGATTATATCCCR
--TCAGGAGTGAAGCTGC--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

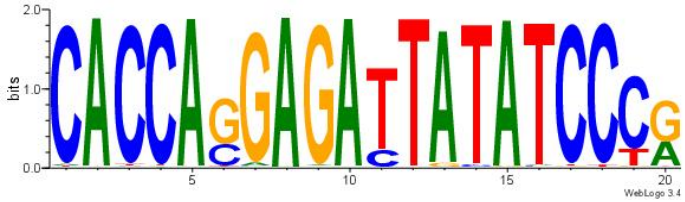

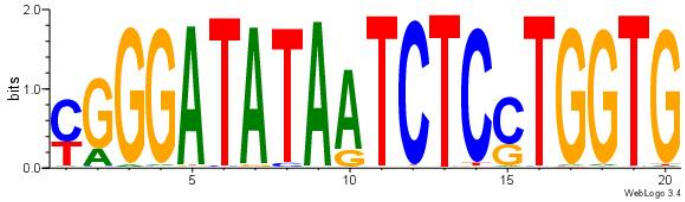

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.106195

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
-GCAGCTTCACTCCTGA---
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

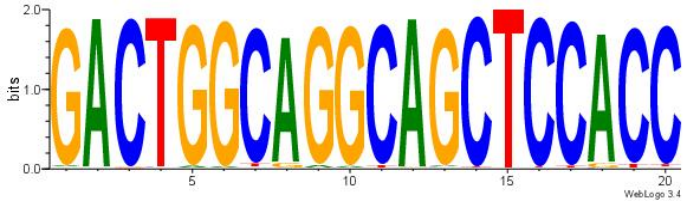

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

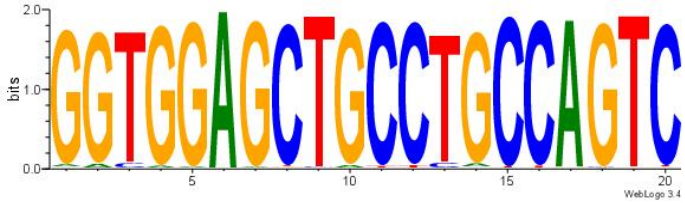

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.107227

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
GCAGCTTCACTCCTGA----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

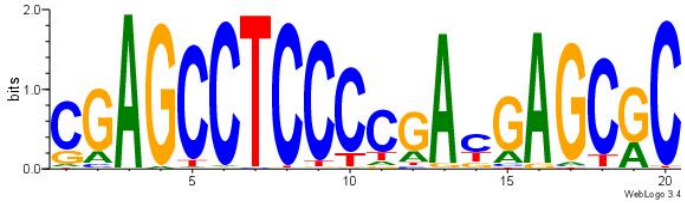

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

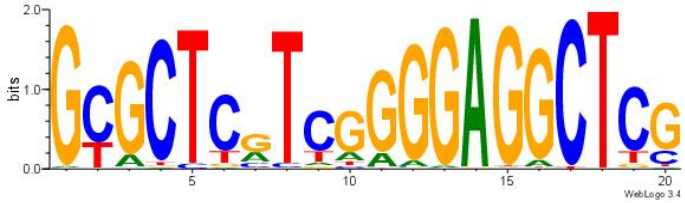

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16

Similarity score: 0.107944

Alignment:
CCCGAAGCTGCRYRCTCGGT
---GCAGCTTCACTCCTGA-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

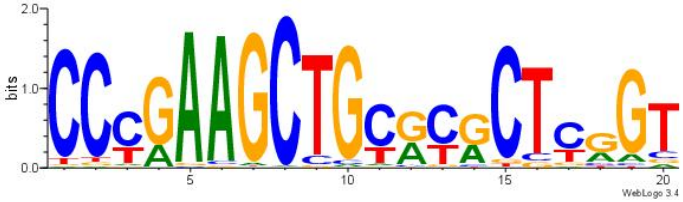

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

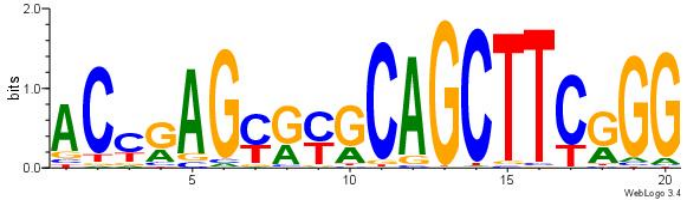

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.110895

Alignment:
GCCGGGRAGAGGCGCTCCT
--TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

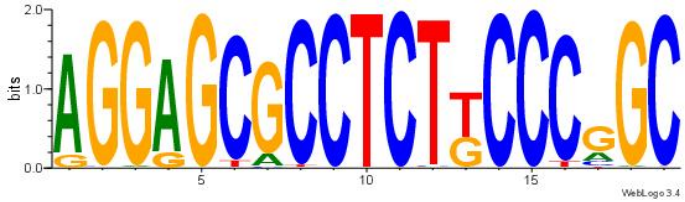

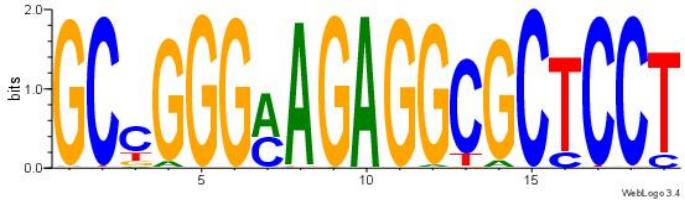

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.111132

Alignment:
GCGMGCGGGAACCGGGGCT
TCAGGAGTGAAGCTGC---

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

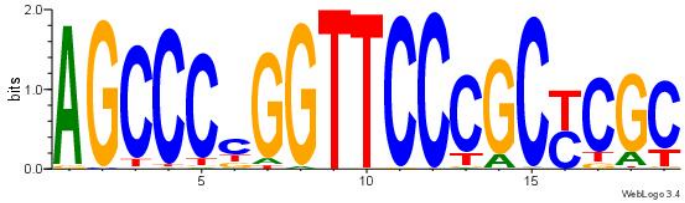

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

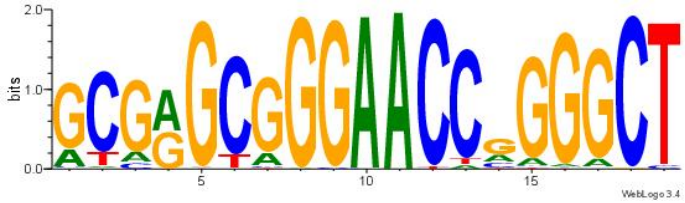

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.114605

Alignment:

```
TTGGTAGGATCCGTGATGCC
---GCAGCTTCACTCCTGA-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

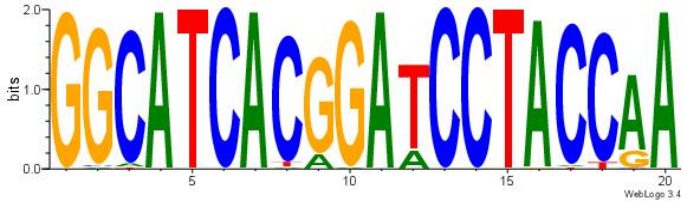

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

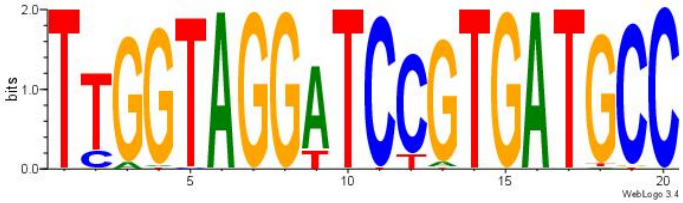

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.114646

Alignment:
TGATGGGTGCACCAAA
TCAGGAGTGAAGCTGC

Original motif Consensus sequence: TGATGGGTGCACCAAA

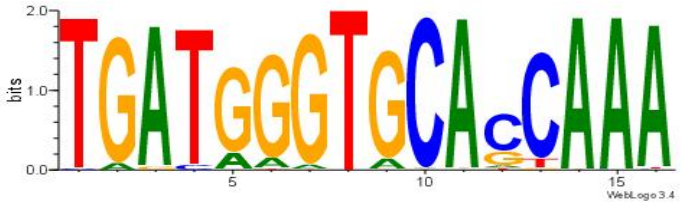

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

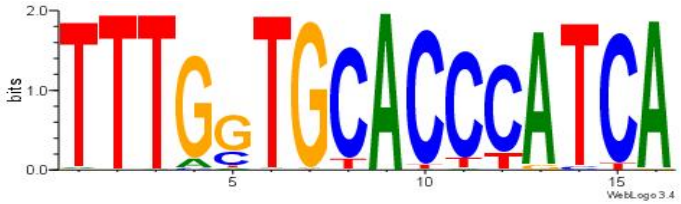

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.115787

Alignment:
ATCTGACAGGAGGYRGAGCT
---TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

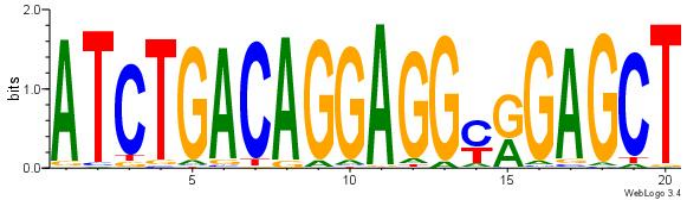

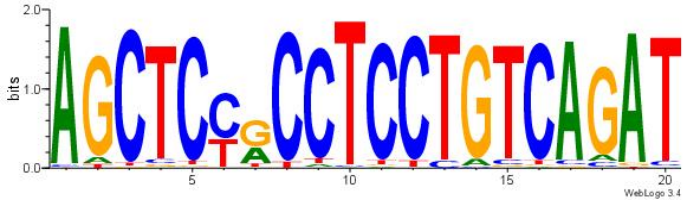

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.115798

Alignment:

```
TCCTATGAGAATCTAATG
TCAGGAGTGAAGCTGC--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

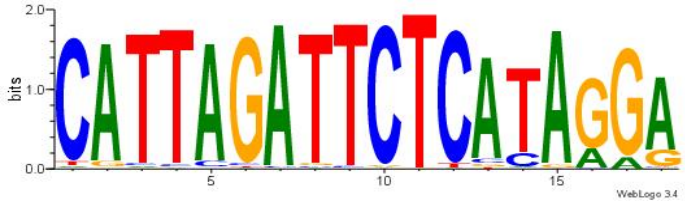

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

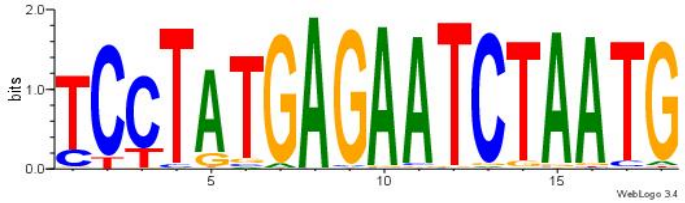

Dataset #:	1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.116255

Alignment:

```
GCCAATTTCTCCCATTTGGA
---GCAGCTTCACTCCTGA-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

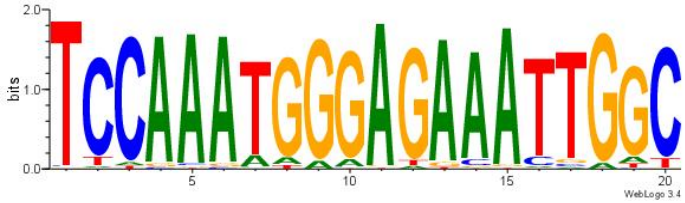

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

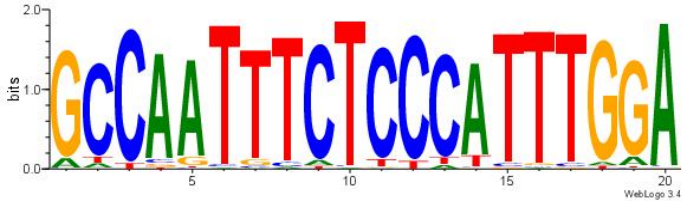

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16

Similarity score: 0.116292

Alignment:
GGAGGTGTGGAGGGAGAGGC
TCAGGAGTGAAGCTGC----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

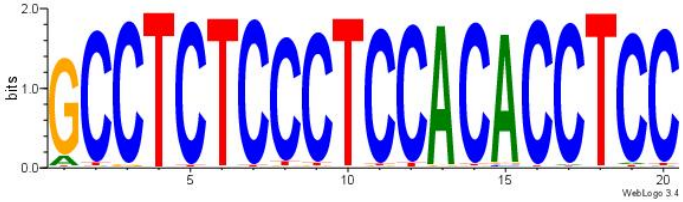

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

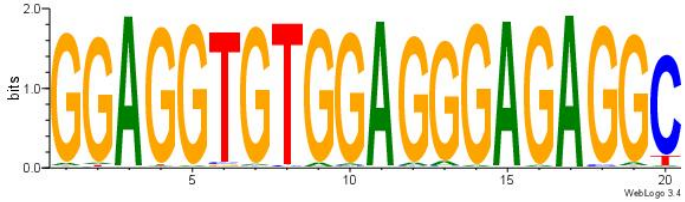

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.116455

Alignment:
TAMGACCTCAGGTCCTCAG
--GCAGCTTCACTCCTGA-

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

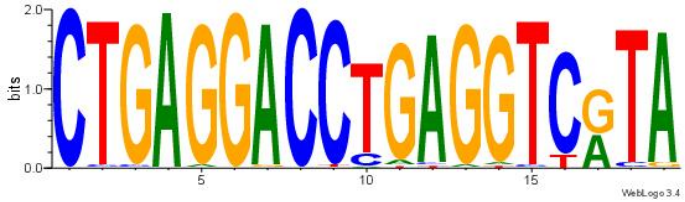

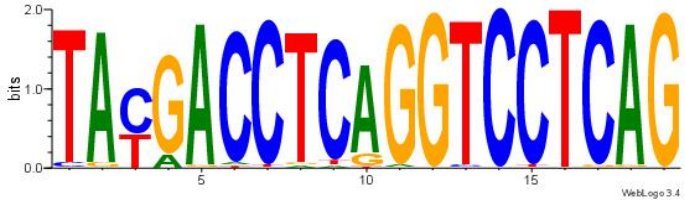

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.116548

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---TCAGGAGTGAAGCTGC-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

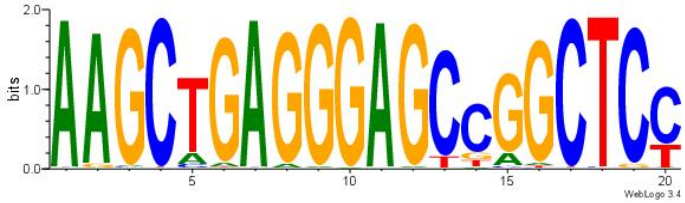

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

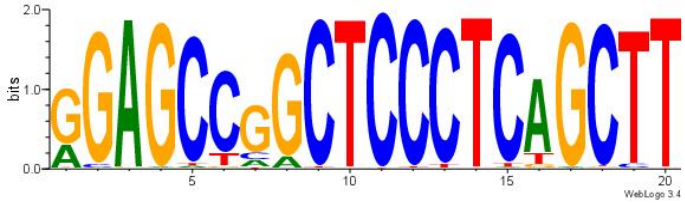

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.11668

Alignment:

```
TTGGAGGTTCTAGCAGGG
--GCAGCTTCACTCCTGA
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

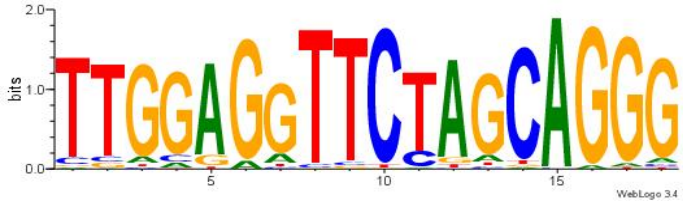

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16

Similarity score: 0.11732

Alignment:
AGAAATCGAGCRCAGCGCCG
-TCAGGAGTGAAGCTGC---

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

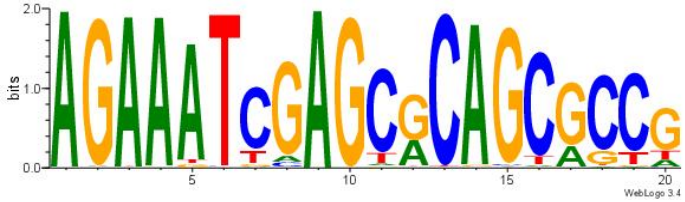

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

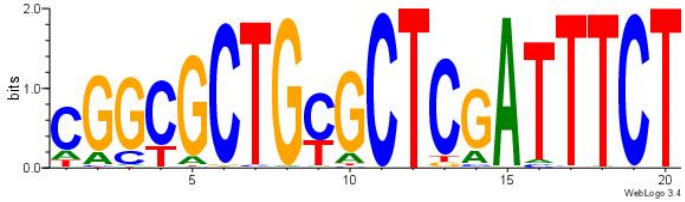

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.118002

Alignment:
CTCAGTGTTAATCTCCTGTC
---GCAGCTTCACTCCTGA-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

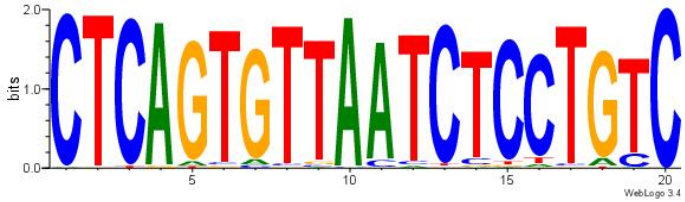

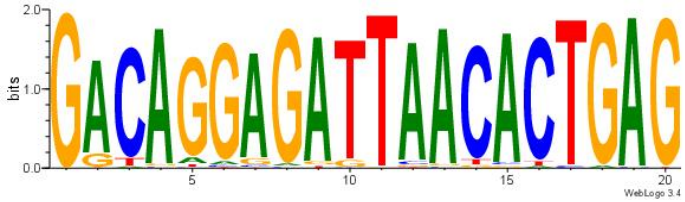

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.118245

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---TCAGGAGTGAAGCTGC-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

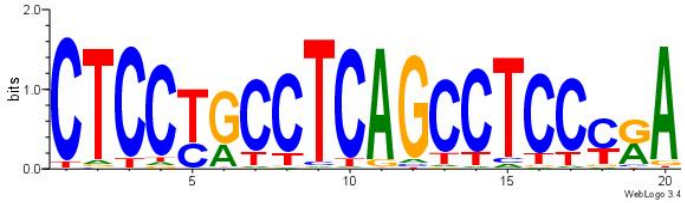

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

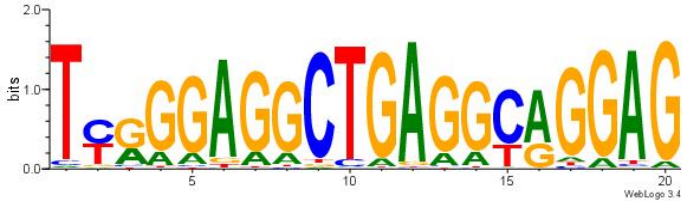

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.118291

Alignment:

```
KKCACCTTGATCTTGGACTT
---GCAGCTTCACTCCTGA-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

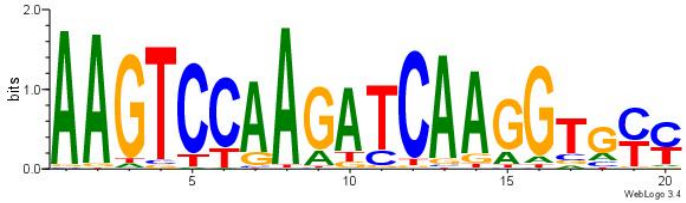

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

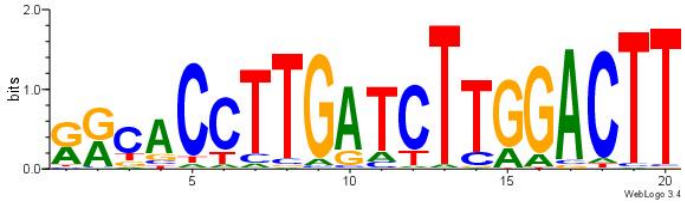

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.118557

Alignment:
CTAGACATAAAGGTTCTCCA
----TCAGGAGTGAAGCTGC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

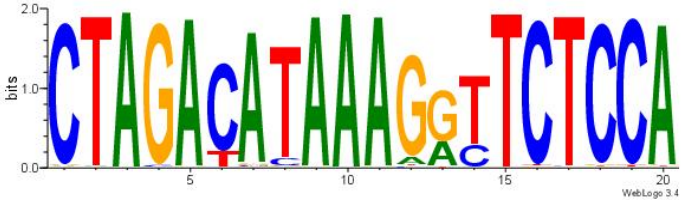

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

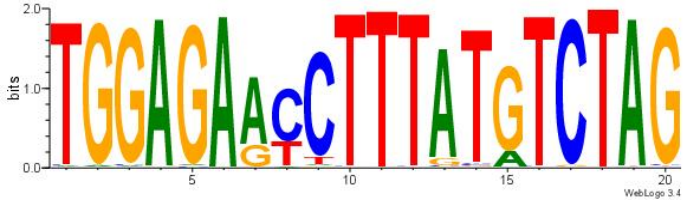

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.119142

Alignment:
GCAWSTGCAAAGGCCCT
TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

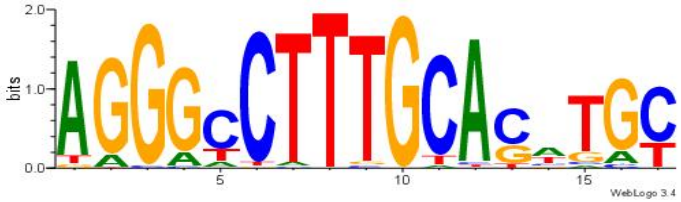

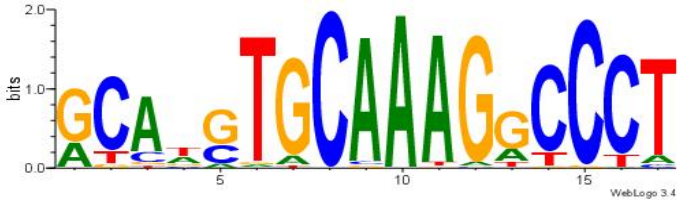

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.119298

Alignment:

```
TTCAMTCATGATTTGGCTCT
-TCAGGAGTGAAGCTGC---
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

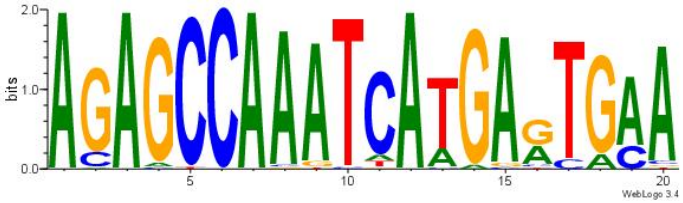

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

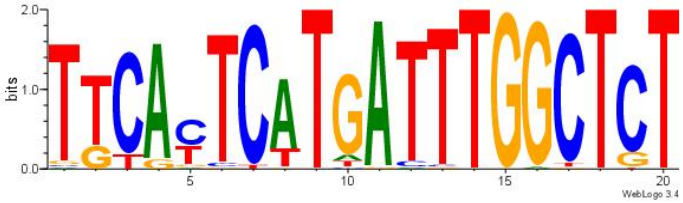

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.119532

Alignment:

```
CATTCTGGGGTCTGGAGGAY
---TCAGGAGTGAAGCTGC-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

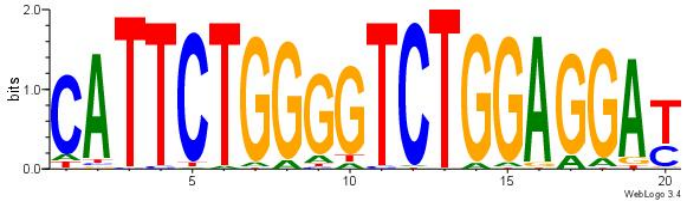

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

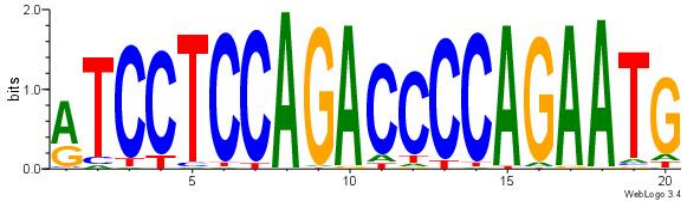

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16

Similarity score: 0.119653

Alignment:
GGTGGGGGGGTCAGCCCCC
--TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

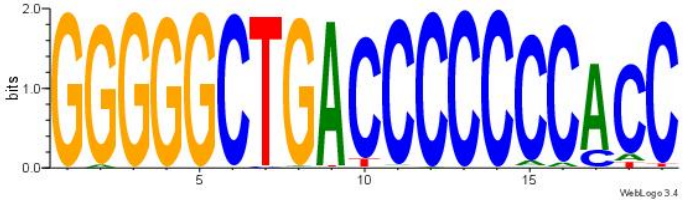

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

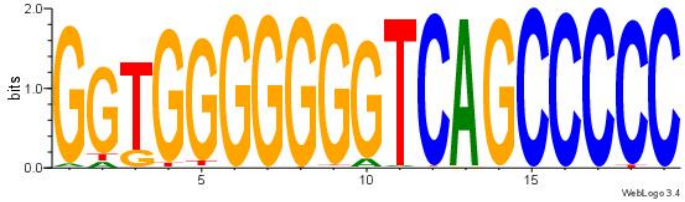

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.120189

Alignment:
CCGCTGCACTGTGGGAGCCC
--TCAGGAGTGAAGCTGC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

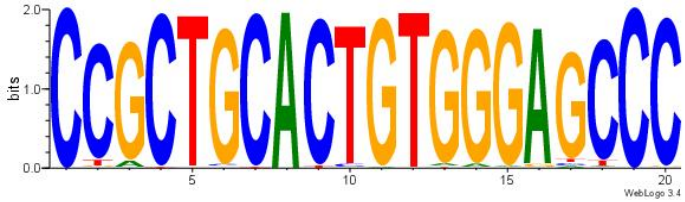

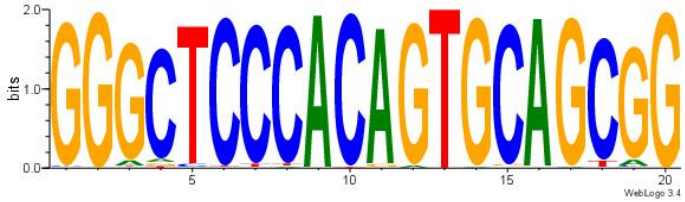

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.120391

Alignment:

```
ACAGGCTGTCCCAGGATTC
---GCAGCTTCACTCCTGA
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

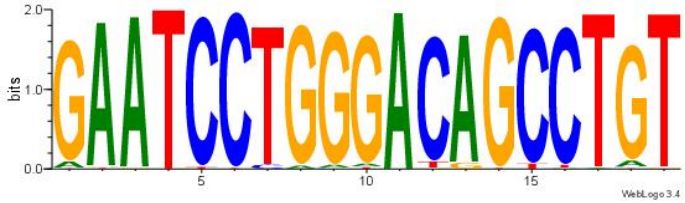

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

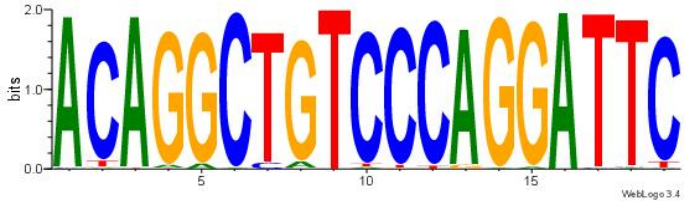

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.120474

Alignment:

```
ATAGGAATGCTTGTGATTTT
TCAGGAGTGAAGCTGC----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

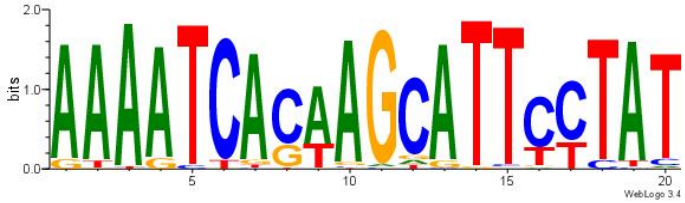

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

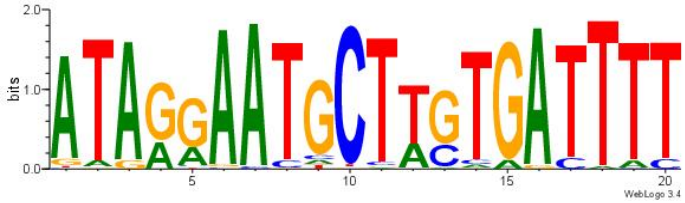

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.122002

Alignment:
GCCKCCCCGTCCGGGAGGGA
----GCAGCTTCACTCCTGA

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

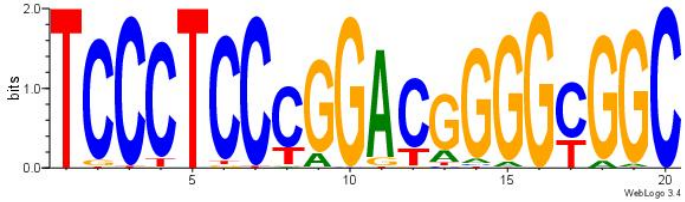

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

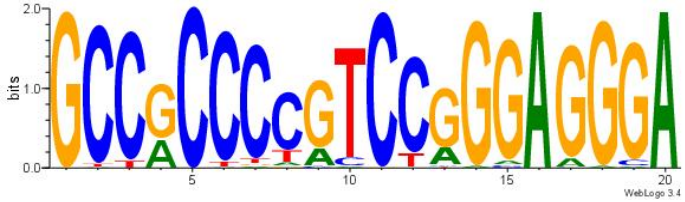

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.122154

Alignment:
AGGAGCCCCTCHGCCCR
-GCAGCTTCACTCCTGA

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

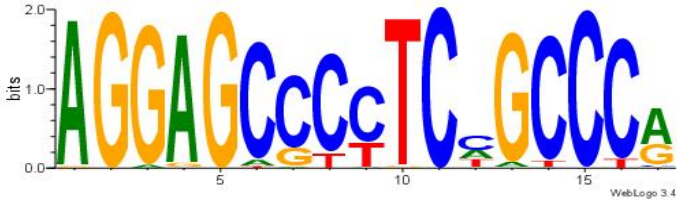

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.123705

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--GCAGCTTCACTCCTGA-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

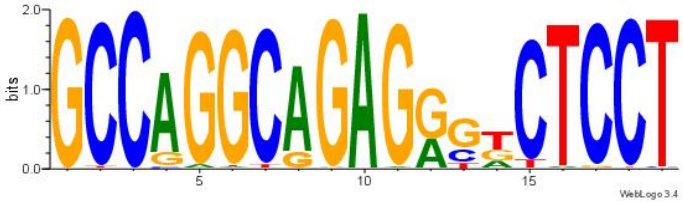

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

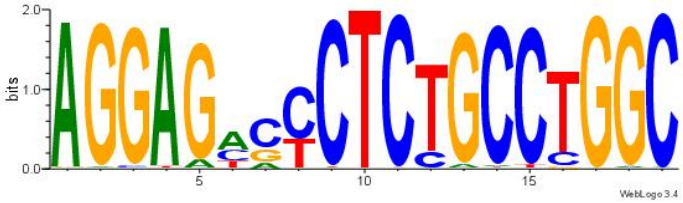

Dataset #:	1

Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.125241

Alignment:

```
AGCAGYTTGGAAACACT
-GCAGCTTCACTCCTGA
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

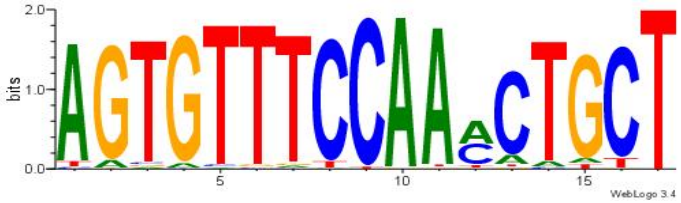

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

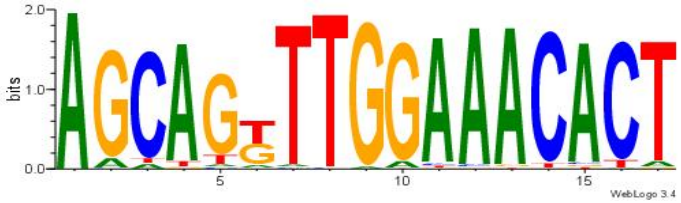

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16

Similarity score: 0.125567

Alignment:
MCCYGGCWSMGASGSTCCT
--TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

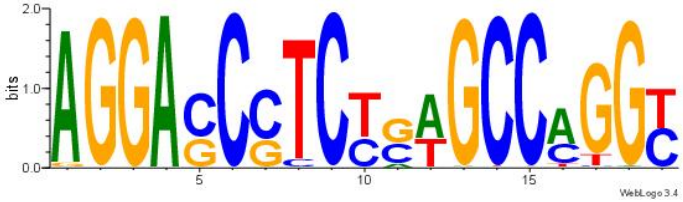

Reverse complement motif Consensus sequence:
MCCYGGCWSMGASGSTCCT

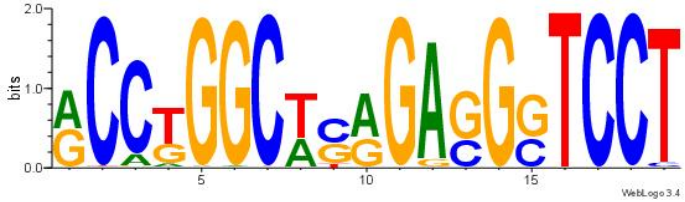

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.125581

Alignment:
ATTCAASATGAGATTTGGG
--TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

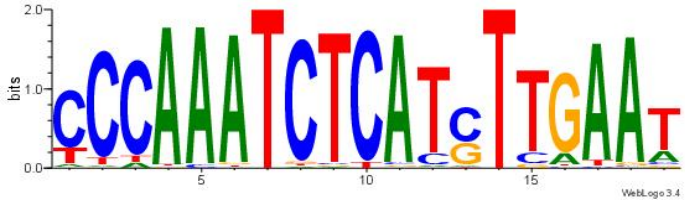

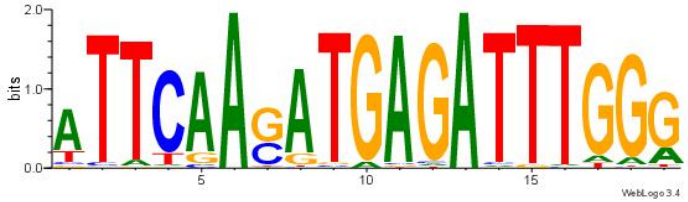

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.125778

Alignment:

```
ACTCCCTAGTGAGATGAACC
--TCAGGAGTGAAGCTGC--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

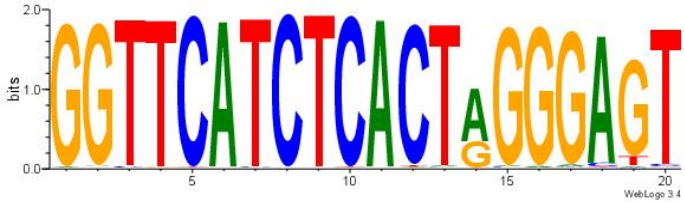

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

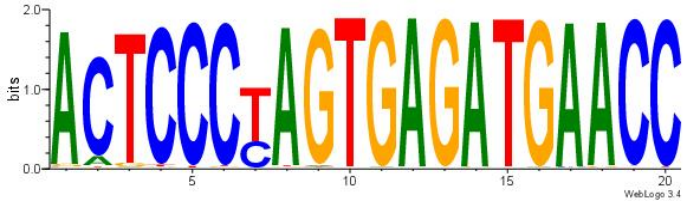

Dataset #: 1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.126487

Alignment:

```
GTGCCAGGCACTGTKCTARG
---GCAGCTTCACTCCTGA-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

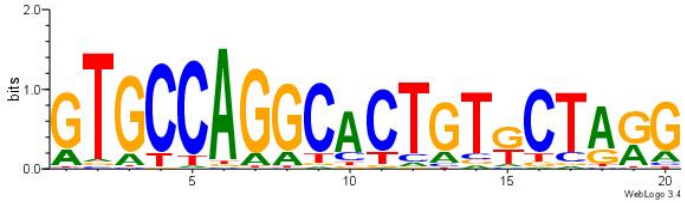

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

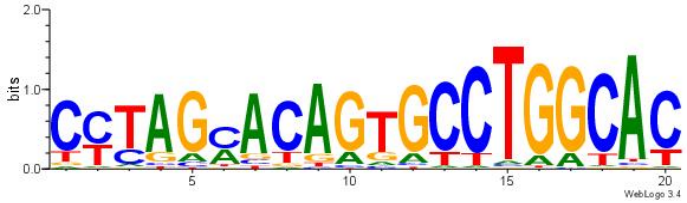

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16

Similarity score: 0.127011

Alignment:
TTGTCCCACTGGAAGGTCTT
---TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

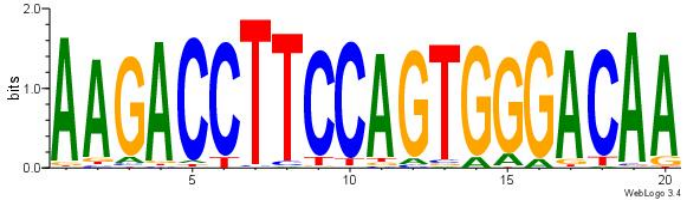

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

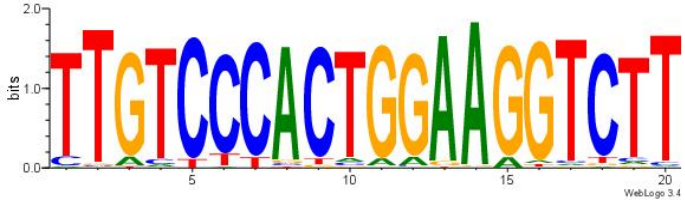

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.127267

Alignment:
GAATACCTCCTGAAGGACCT
---TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

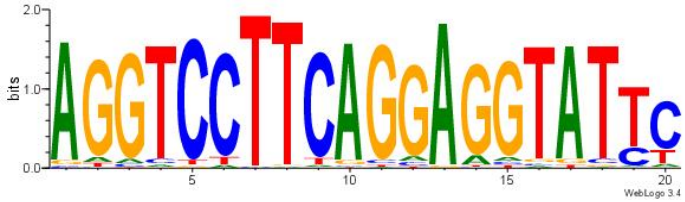

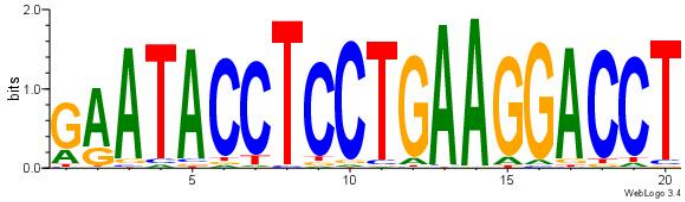

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.127889

Alignment:

```
ATGTGGAGGTGGAAGACAGT
----TCAGGAGTGAAGCTGC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

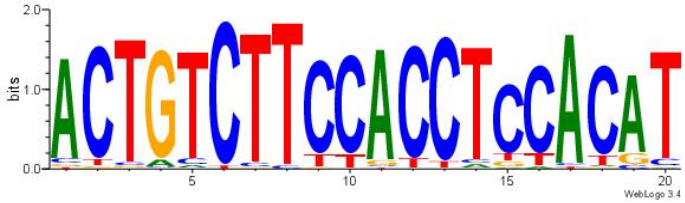

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

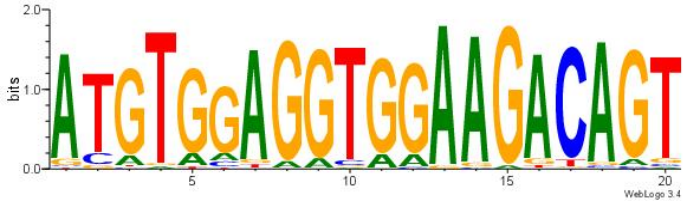

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.128012

Alignment:

```
ACATCMTCTGAAATCTAGG
---GCAGCTTCACTCCTGA
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

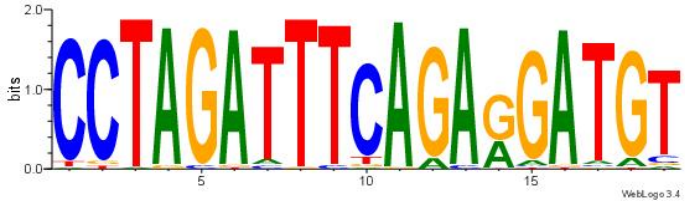

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

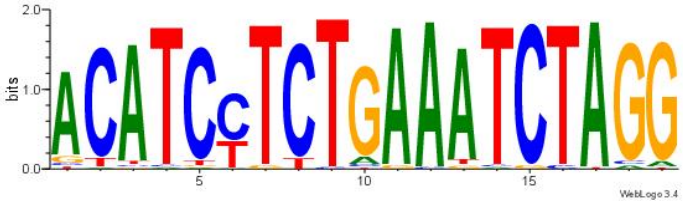

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16

Similarity score: 0.128213

Alignment:
GGTCAGGATCATCAATAT
GCAGCTTCACTCCTGA--

Original motif Consensus sequence: ATATTGATGATCCTGACC

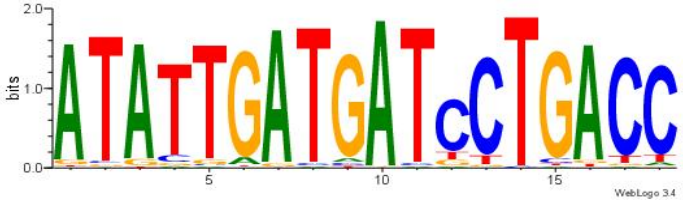

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

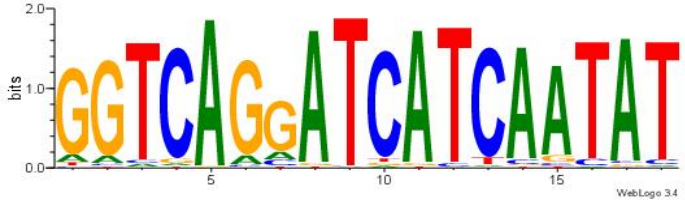

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.128232

Alignment:
AGCTAGAYACAGAGTGC
TCAGGAGTGAAGCTGC-

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

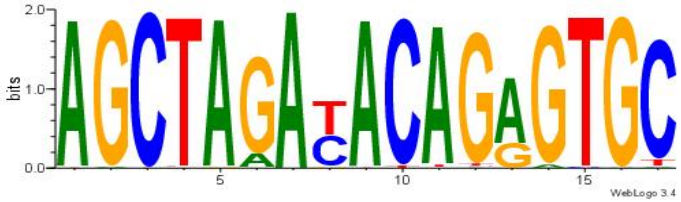

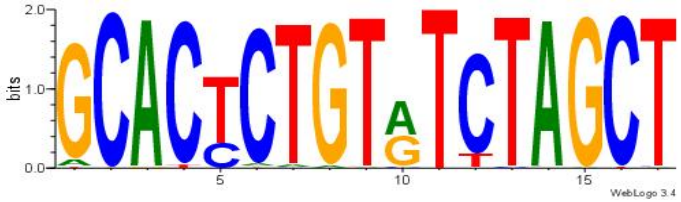

Dataset #: 1 Motif ID: 247 Motif name: Motif 247

Original motif Consensus sequence: GCCTCACTGCCRC

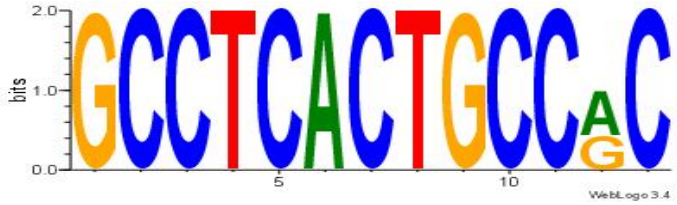

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

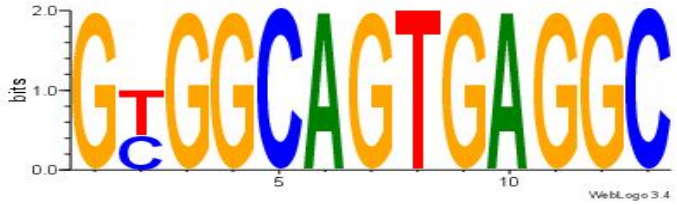

Best Matches for Motif ID 247 (Highest to Lowest)

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0407776

Alignment:

```
CCCCGGGCAGTGAGGG
---GKGGCAGTGAGGC
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

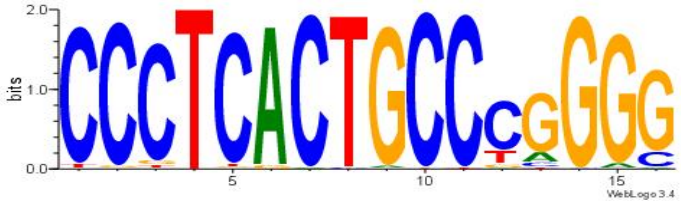

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

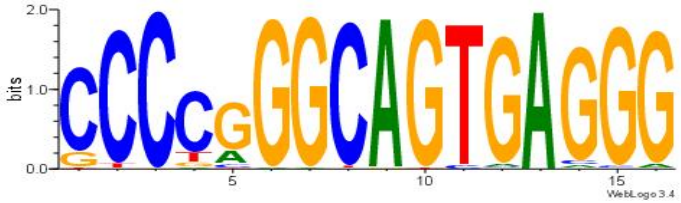

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0419595

Alignment:

```
GCCTTGCTGCCGC
GCCTCACTGCCRC
```

Original motif Consensus sequence: GCCTTGCTGCCGC

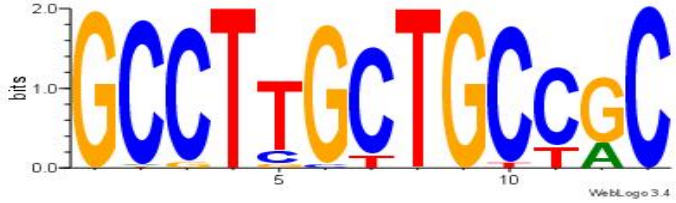

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

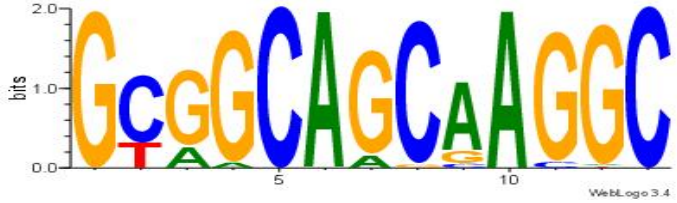

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0798714

Alignment:

```
TTGGTAGGATCCGTGATGCC
------GKGGCAGTGAGGC-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

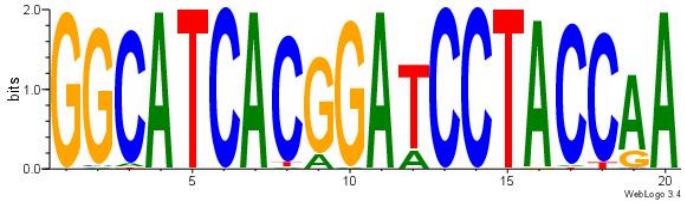

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

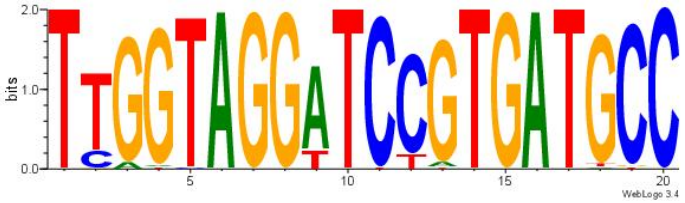

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0800588

Alignment:
KGGGCDGAGGGGCTCCT
GKGGCAGTGAGGC----

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

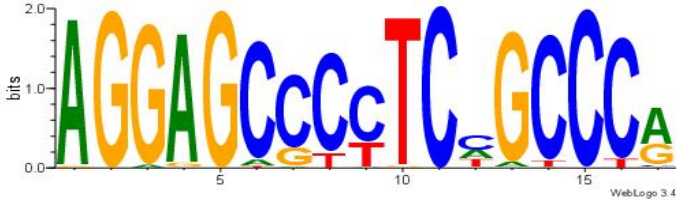

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0819712

Alignment:
GGGTGCAGGMGGGCTGAGT
-GKGGCAGTGAGGC-----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

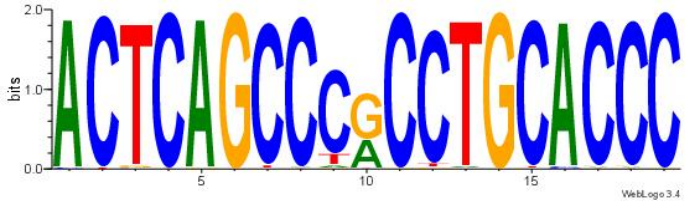

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

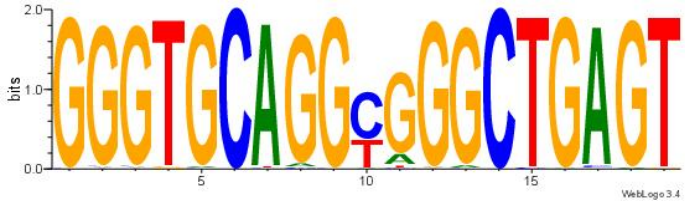

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0825761

Alignment:

```
MCCYGGCWSMGASGSTCCT
--GKGGCAGTGAGGC----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

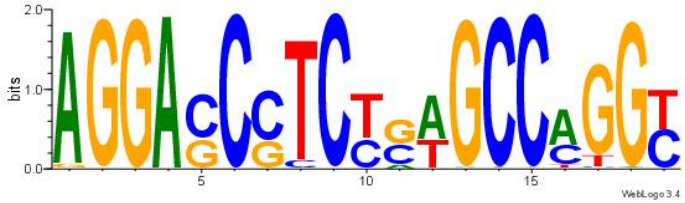

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

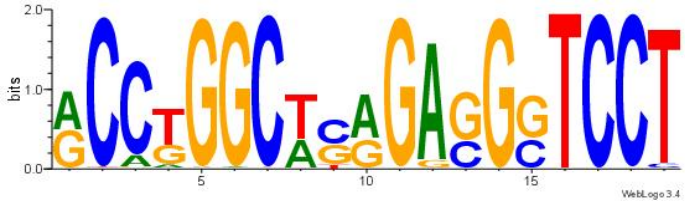

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0827327

Alignment:

```
GGTGGGGGGGTCAGCCCCC
---GKGGCAGTGAGGC---
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

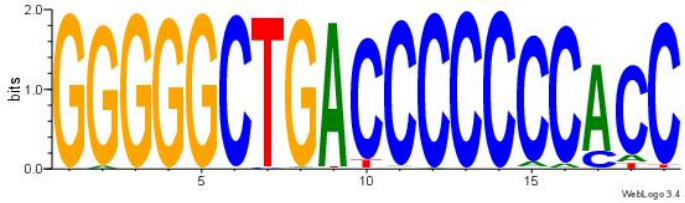

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

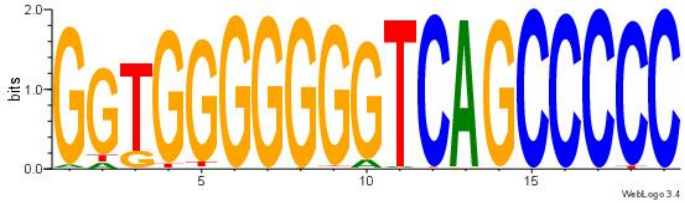

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0835449

Alignment:
CCGCTGCACTGTGGGAGCCC
-----GKGGCAGTGAGGC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

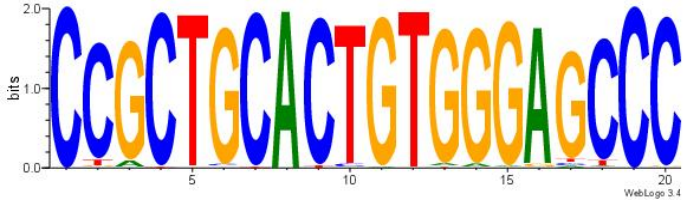

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

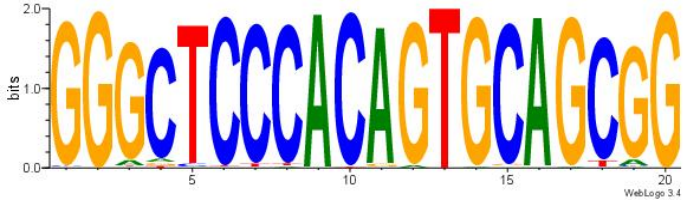

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0837221

Alignment:
GCAGCTTCACTCCTGA
---GCCTCACTGCCRC

Original motif Consensus sequence: GCAGCTTCACTCCTGA

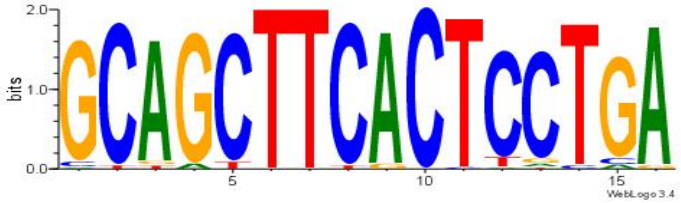

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

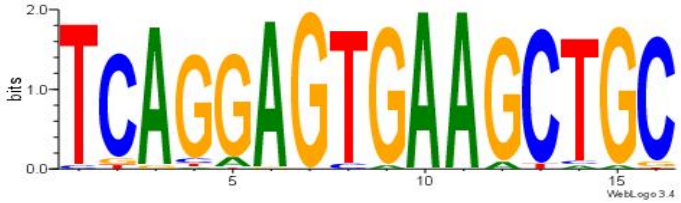

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0878937

Alignment:

```
AGGAGRCMCTCTGCCTGGC
--GCCTCACTGCCRC----
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

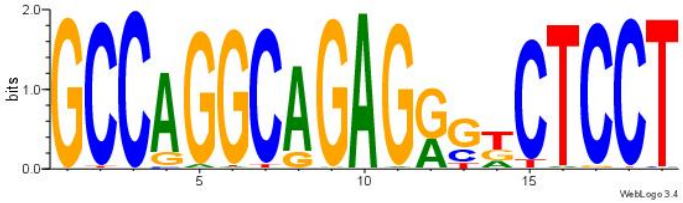

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

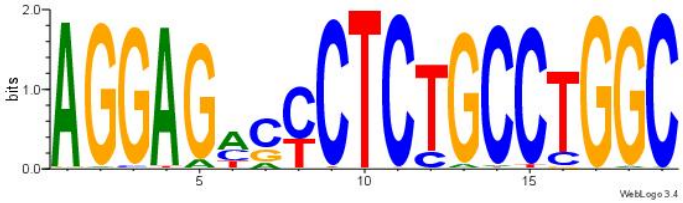

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0881268

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
GKGGCAGTGAGGC-------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

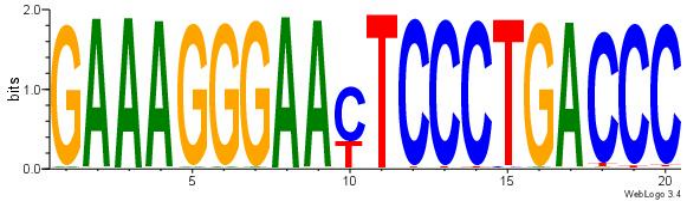

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

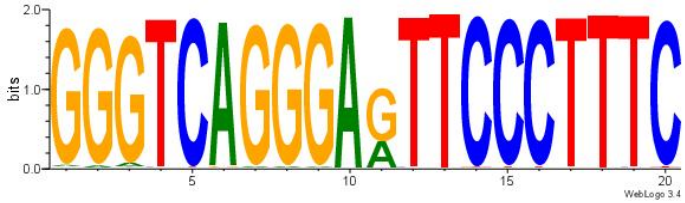

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0894062

Alignment:
MGGAAACTGAGGC
GKGGCAGTGAGGC

Original motif Consensus sequence: GCCTCAGTTTCCY

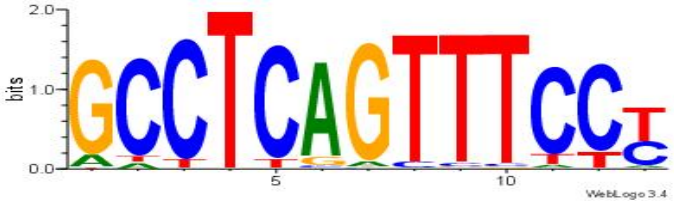

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

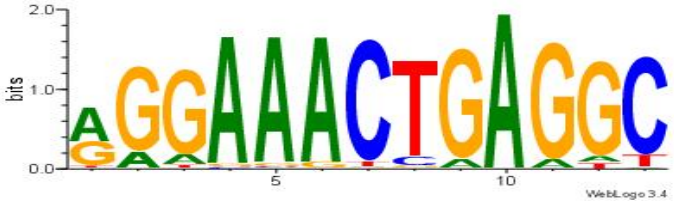

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.09453

Alignment:
CGAGCCTCCCCGAYGAGCGC
---GCCTCACTGCCRC----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

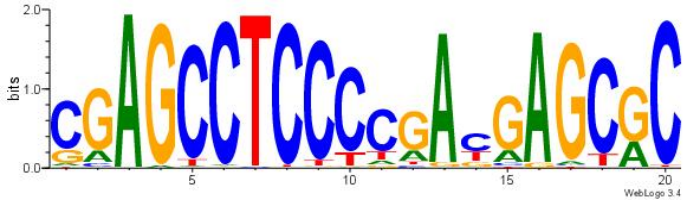

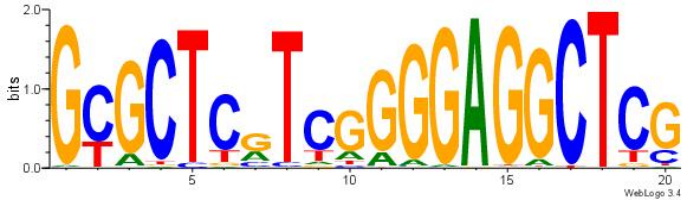

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0945727

Alignment:

```
TAMGACCTCAGGTCCTCAG
----GCCTCACTGCCRC--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

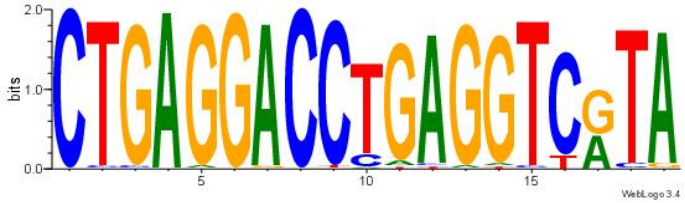

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

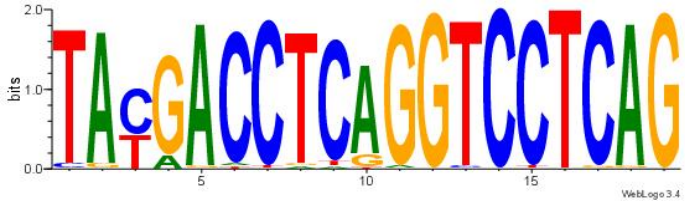

Dataset #:	1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0958898

Alignment:

```
GGTGCCCCTCTGGGACRAA
---GCCTCACTGCCRC---
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

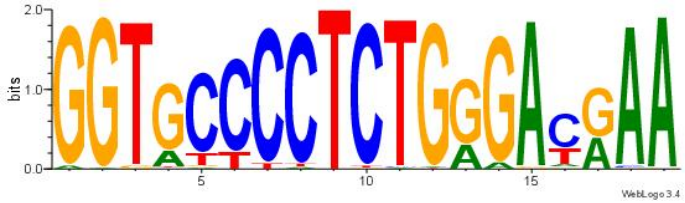

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

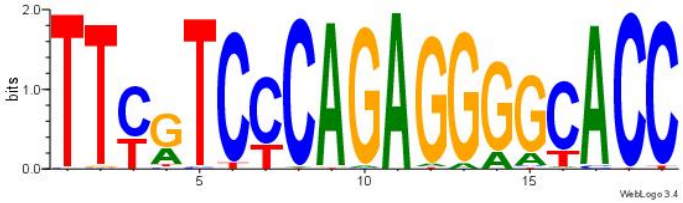

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.096971

Alignment:
GGGRSCACAGGAGCD
-GKGGCAGTGAGGC-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

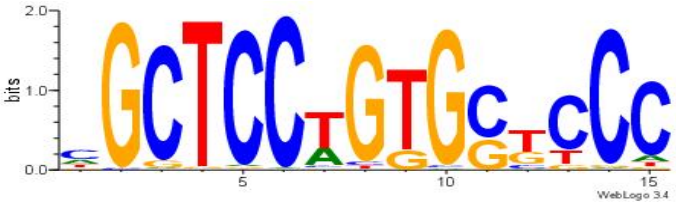

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

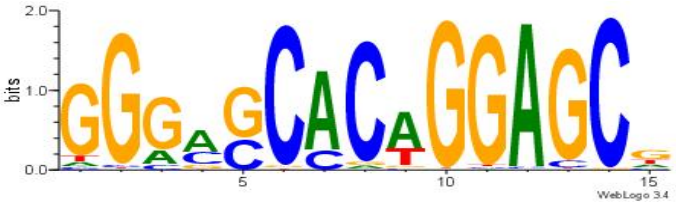

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0972252

Alignment:
GCCGGGRAGAGGCGCTCCT
--GKGGCAGTGAGGC----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

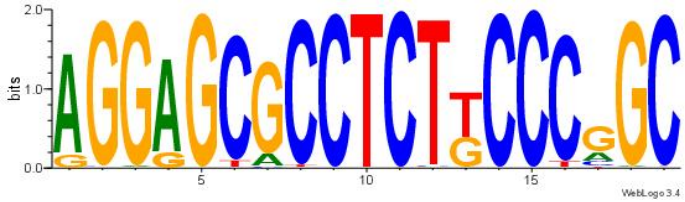

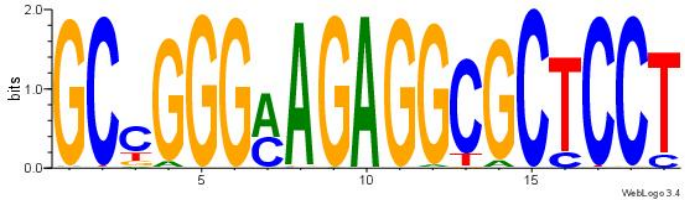

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0976971

Alignment:

```
GMTTAGCTCCCACTTA
---GCCTCACTGCCRC
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

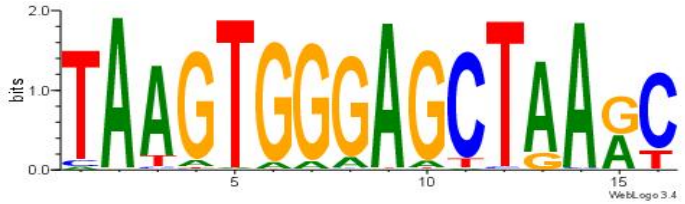

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

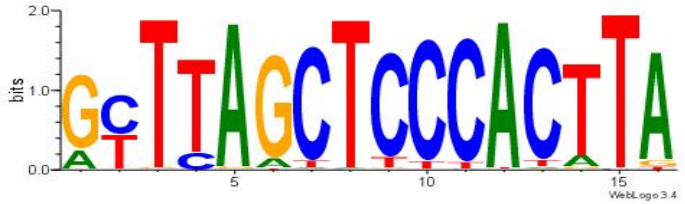

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0977743

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
---GKGGCAGTGAGGC----
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

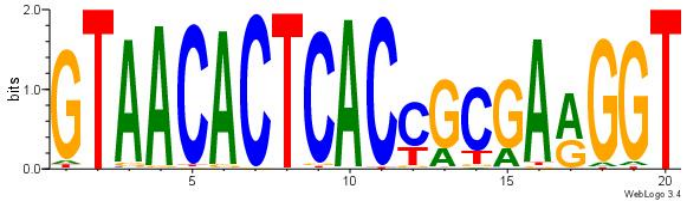

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

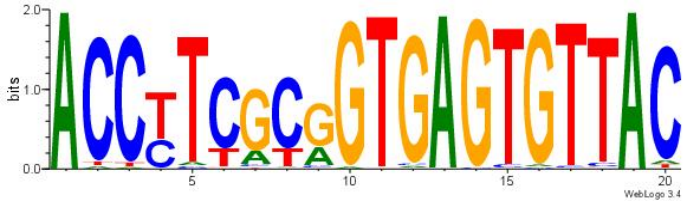

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.0994138

Alignment:
GCTCCWGTGYGKCC
-GKGGCAGTGAGGC

Original motif Consensus sequence: GCTCCWGTGYGKCC

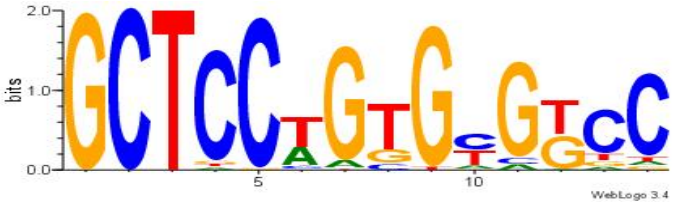

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0994913

Alignment:
GACTGGCAGGCAGCTCCACC
-----GKGGCAGTGAGGC--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

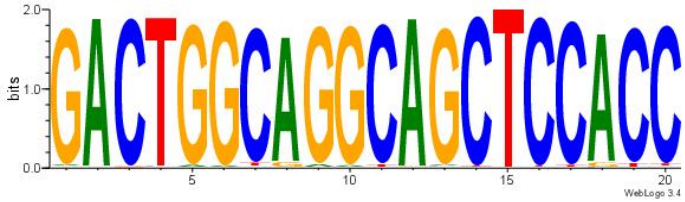

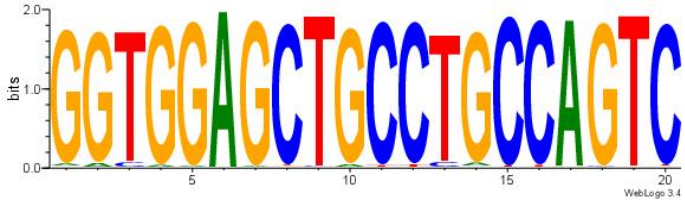

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.100094

Alignment:

```
CTCTGCCCGGCCGC
-GCCTCACTGCCRC
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

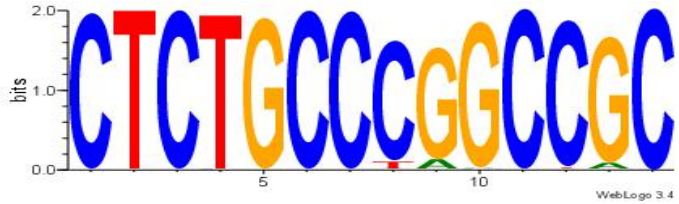

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

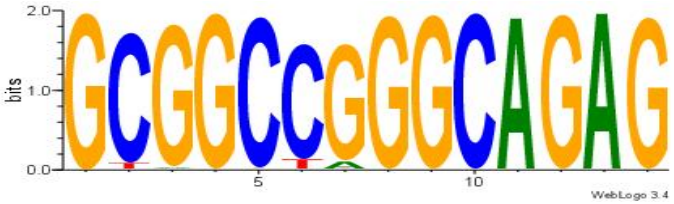

Dataset #:	1
Motif ID:	155

Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.101715

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-------GCCTCACTGCCRC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

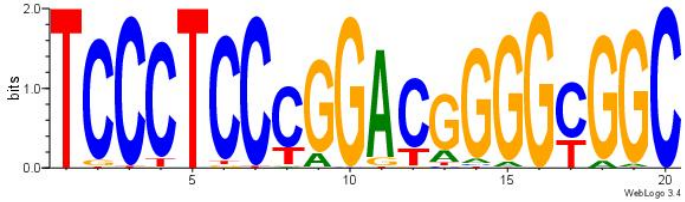

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

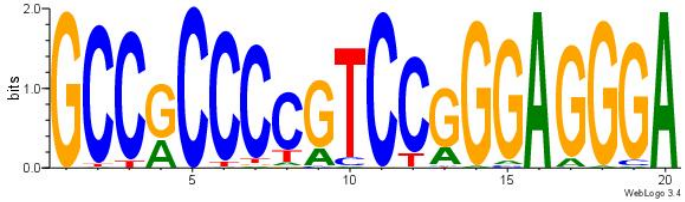

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.102154

Alignment:
CACCAGACTCAGGAGCCCAG
--GCCTCACTGCCRC-----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

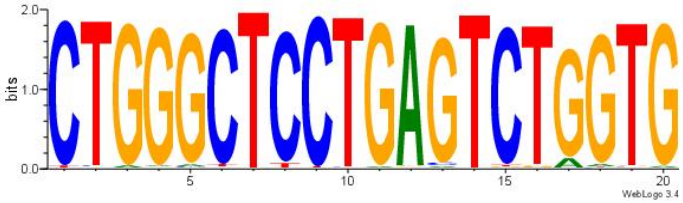

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

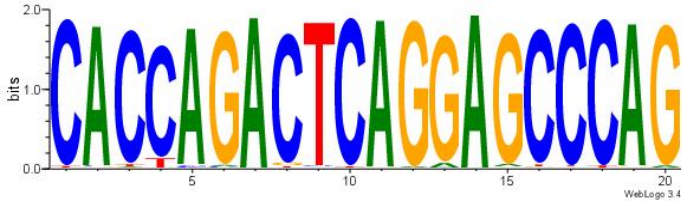

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.102222

Alignment:
TCKMGCCACTGCACTCCAGC
-----GCCTCACTGCCRC--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

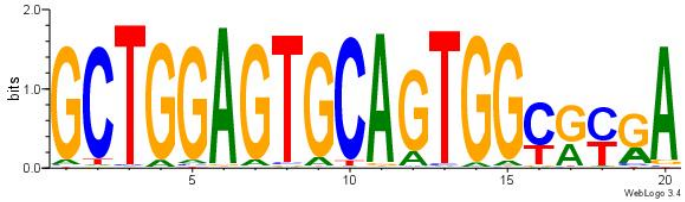

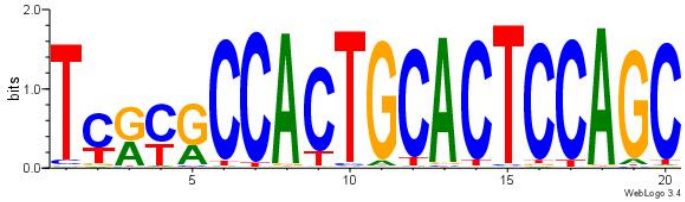

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.1025

Alignment:

```
CCGCGGGGCAGGGCTCG
----GKGGCAGTGAGGC
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

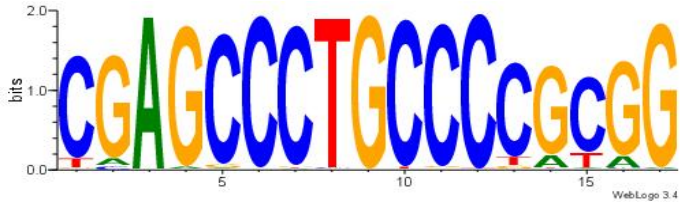

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

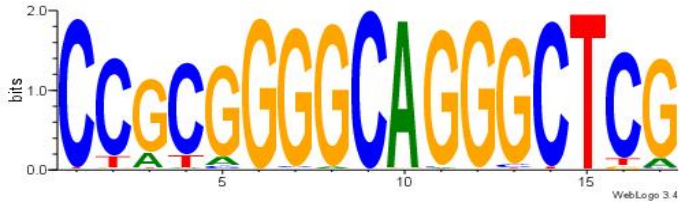

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.102651

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-------GKGGCAGTGAGGC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

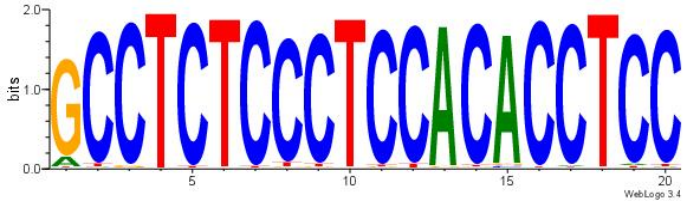

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

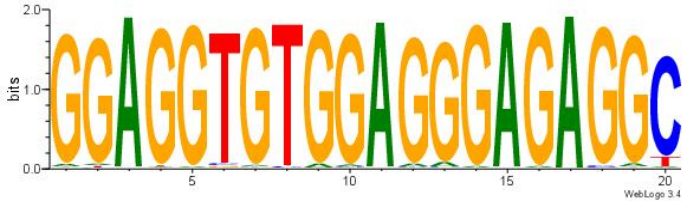

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.102907

Alignment:
CGCCCGGCCAGCCGC
--GCCTCACTGCCRC

Original motif Consensus sequence: CGCCCGGCCAGCCGC

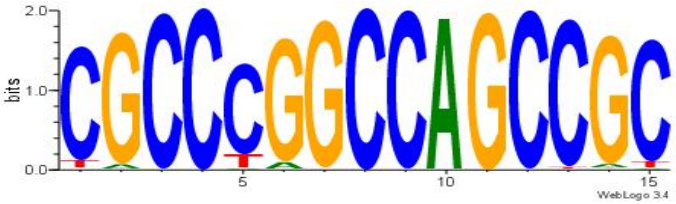

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

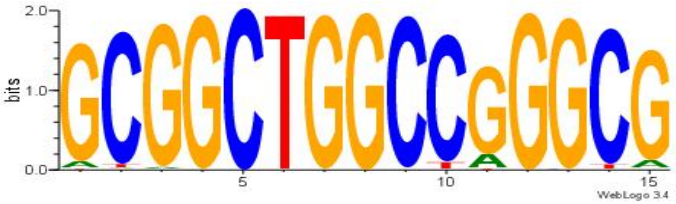

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.103218

Alignment:
TMGGGAGGCTGAGGCAGGAG
--GKGGCAGTGAGGC-----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

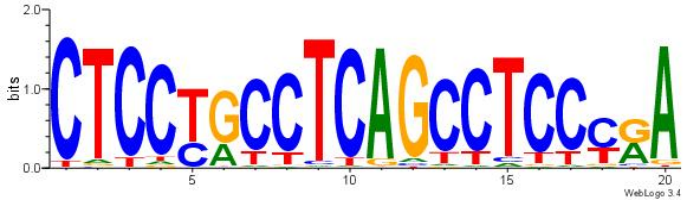

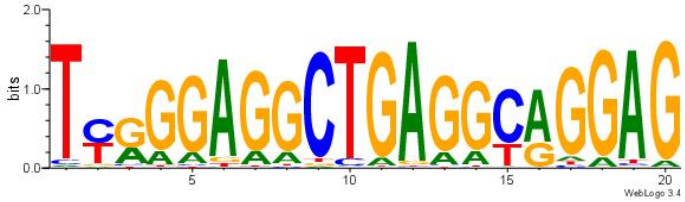

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.103813

Alignment:

```
CACTGCACTCCAGC
-GCCTCACTGCCRC
```

Original motif Consensus sequence: CACTGCACTCCAGC

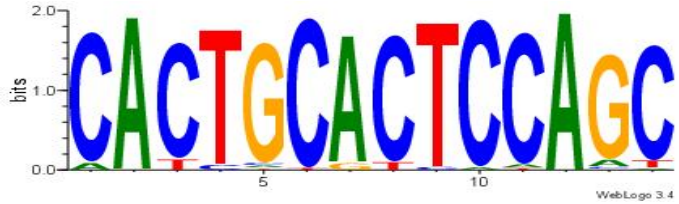

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

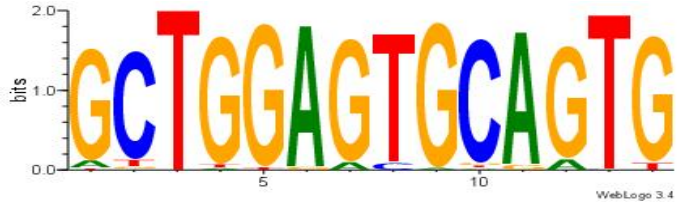

Dataset #:	1
Motif ID:	331

Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.103919

Alignment:

```
CCACCACAGCTCAAGGAGGC
-------GKGGCAGTGAGGC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

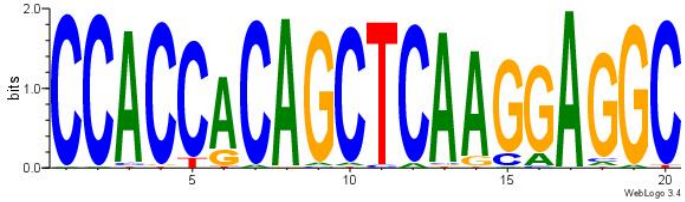

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

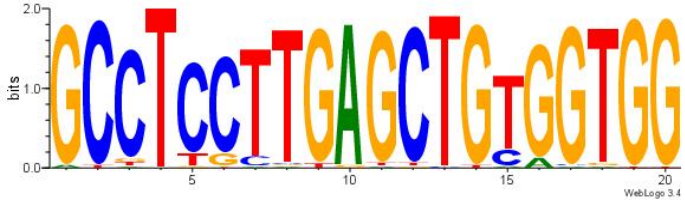

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.104319

Alignment:
AAGACCTTCCAGTGGGACAA
-----GKGGCAGTGAGGC--

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

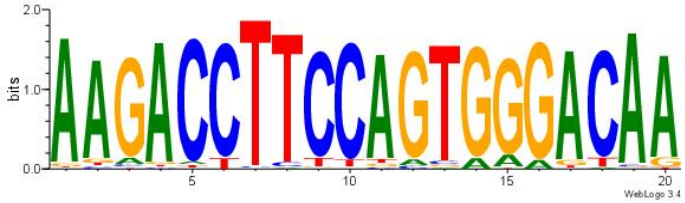

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

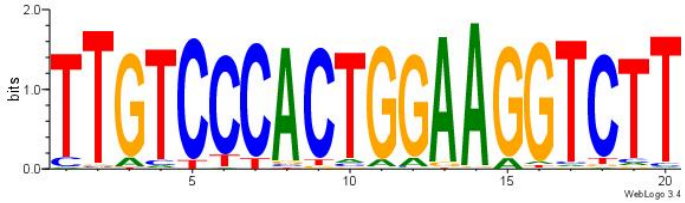

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.105025

Alignment:
CTGACTGGGAGACACCTCCC
GKGGCAGTGAGGC-------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

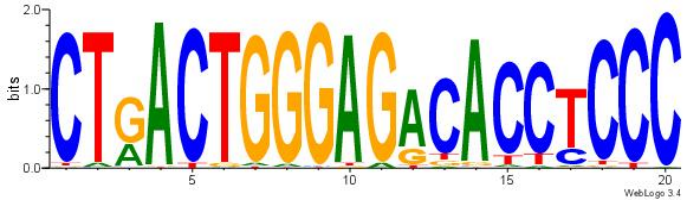

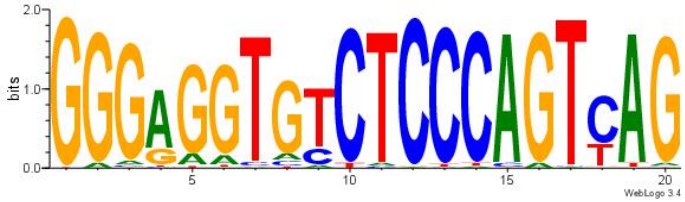

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.105949

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-GCCTCACTGCCRC------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

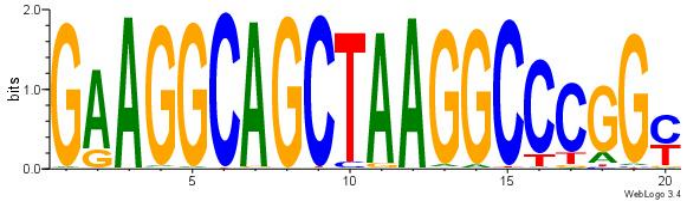

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

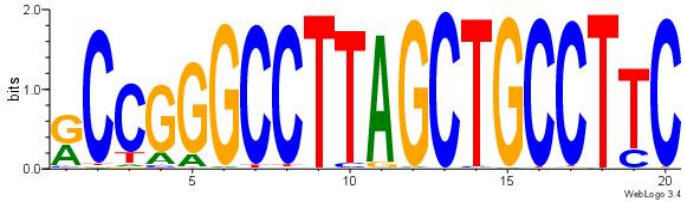

Dataset #:	1

Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106779

Alignment:

```
TGGCCTGTTAGGAA
GKGGCAGTGAGGC-
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

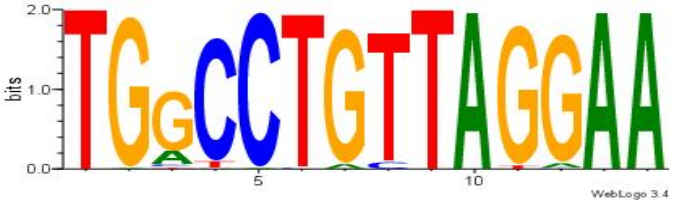

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

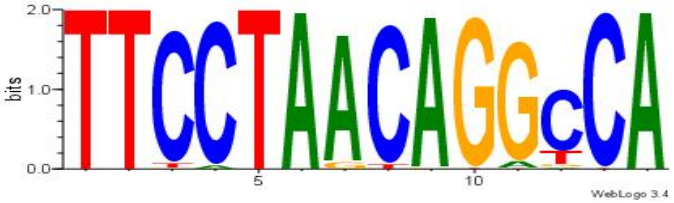

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10702

Alignment:
GCCKGGMKCMGTGGCTCAKG
----GKGGCAGTGAGGC---

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

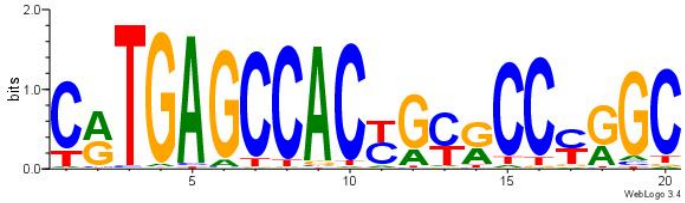

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

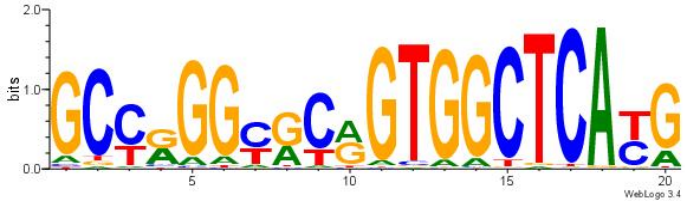

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.107295

Alignment:
GCGMGCGGGAACCGGGGCT
-----GKGGCAGTGAGGC-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

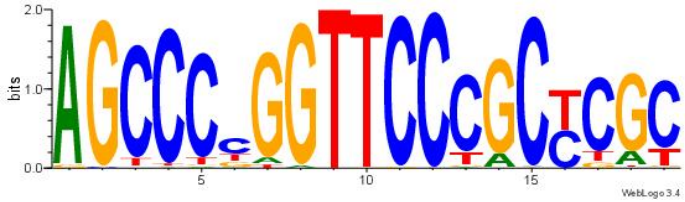

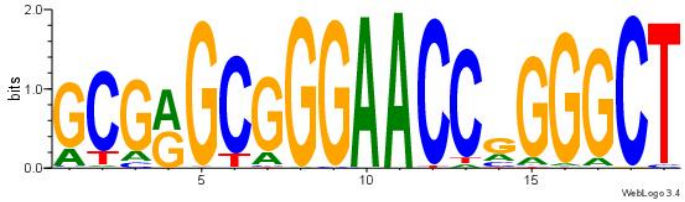

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107573

Alignment:

```
GCCACCAMGCCMKGCTAAT
------GCCTCACTGCCRC
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

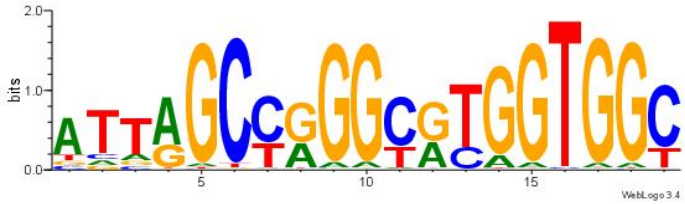

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

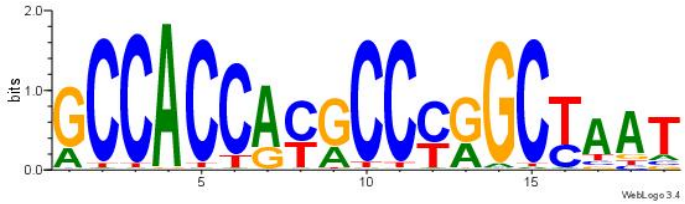

Dataset #:	1

Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107814

Alignment:

GAGCCACYGCRCC

GCCTCACTGCCRC

Original motif Consensus sequence: GAGCCACYGCRCC

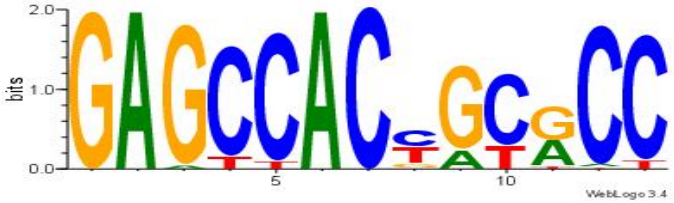

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.108286

Alignment:
GCCRGCCCTGCYGGCC
-GCCTCACTGCCRC--

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

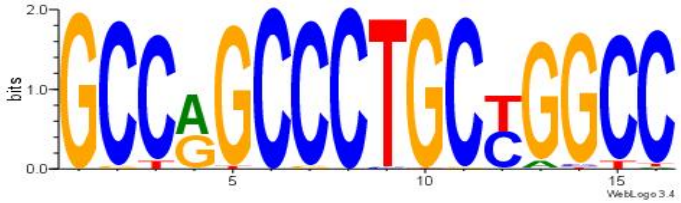

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

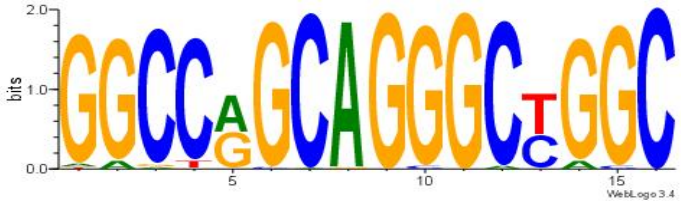

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.108978

Alignment:
AGACAGTGGGYGCAGGHCA
-GKGGCAGTGAGGC-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

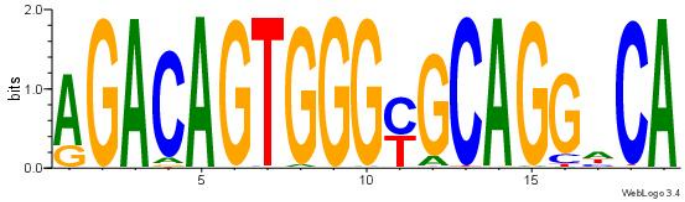

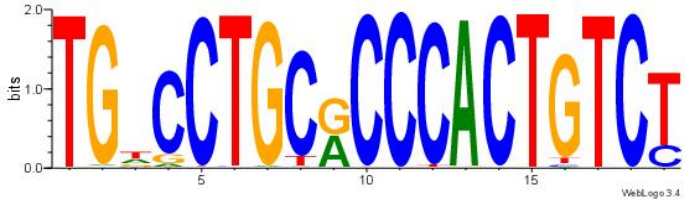

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.109135

Alignment:

```
GCTGGCCCKGGTGCTAAGC
-GKGGCAGTGAGGC-----
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

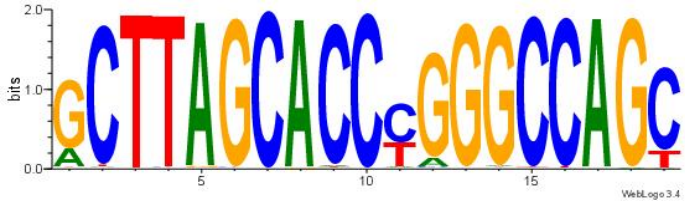

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

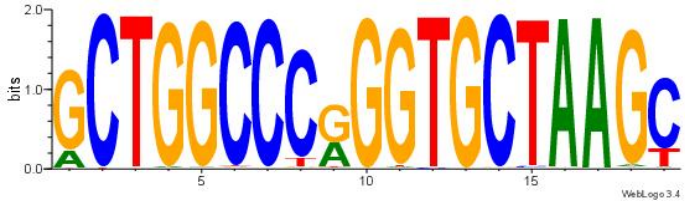

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.109159

Alignment:

```
HAGTGGKATTGCTGGATCAT
--GKGGCAGTGAGGC-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

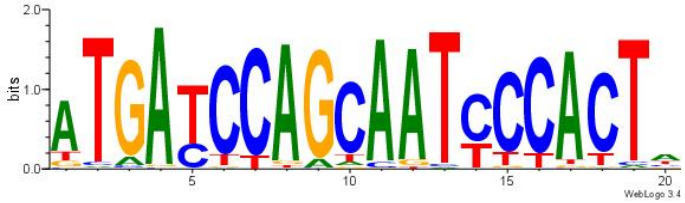

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

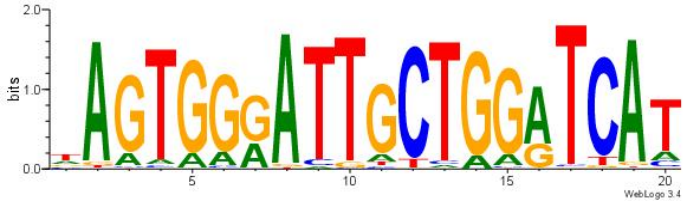

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.109498

Alignment:
GAAATTGACTTCCTCCT
--GCCTCACTGCCRC--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

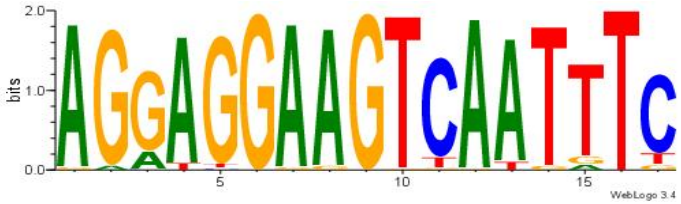

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

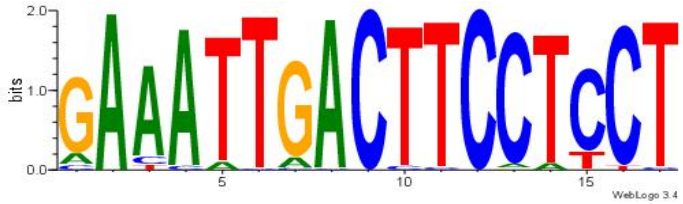

Dataset #: 1
Motif ID: 168
Motif name: Motif 168
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.110137

Alignment:
GGTGGGAGAAATACCT
-GKGGCAGTGAGGC--

Original motif Consensus sequence: AGGTATTTCTCCCACC

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

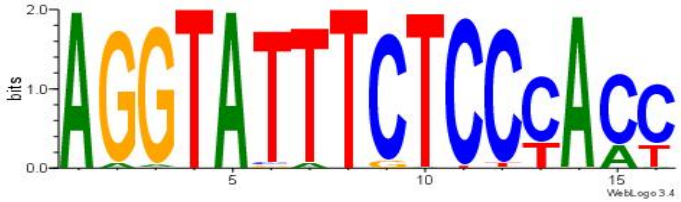

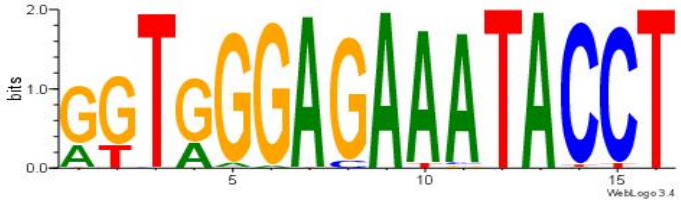

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.110259

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------GKGGCAGTGAGGC-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

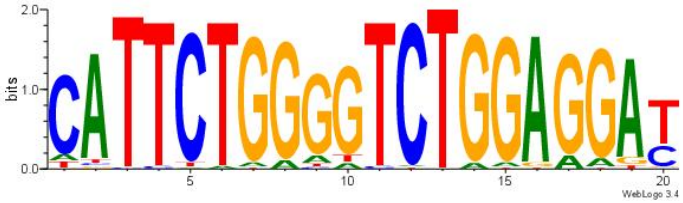

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

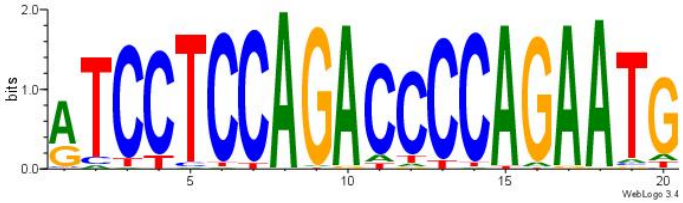

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.11213

Alignment:

```
GGTTCATCTCACTAGGGAGT
-----GCCTCACTGCCRC--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

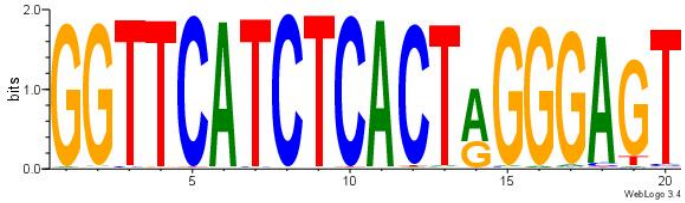

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

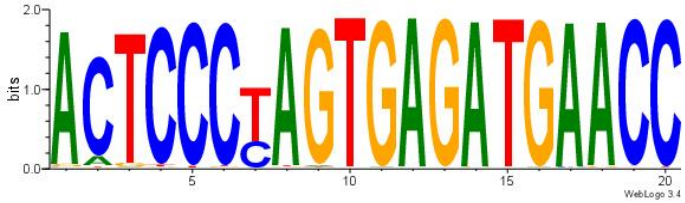

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.112364

Alignment:
TCTCTCTCTCTCTCTCTCTC
--GCCTCACTGCCRC-----

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

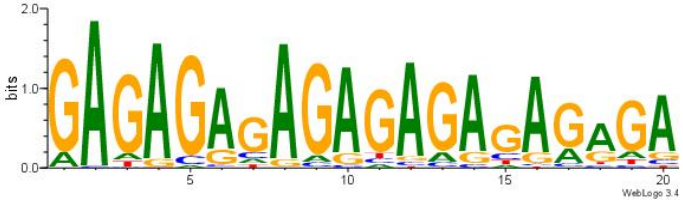

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

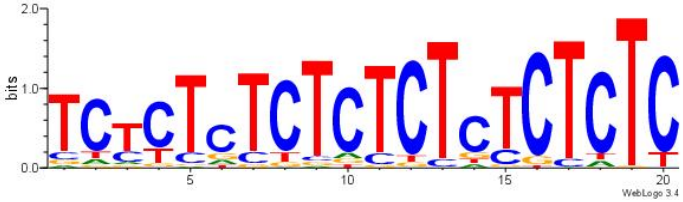

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.112694

Alignment:
GCCCTCACCAGAAGC
-GCCTCACTGCCRC-

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

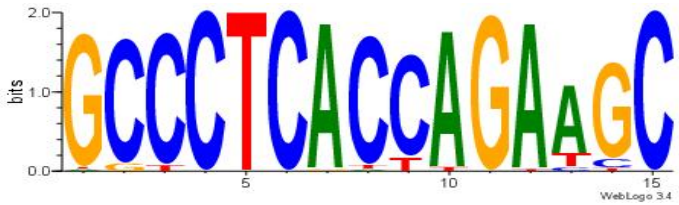

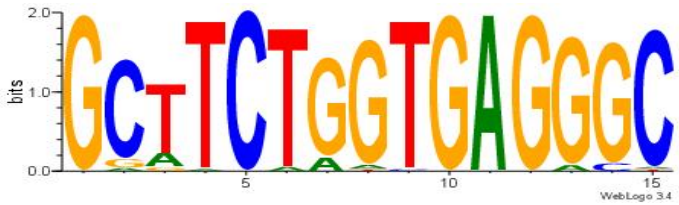

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.113775

Alignment:

```
ACCCYGTCTGGGAGGTG
-GKGGCAGTGAGGC---
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

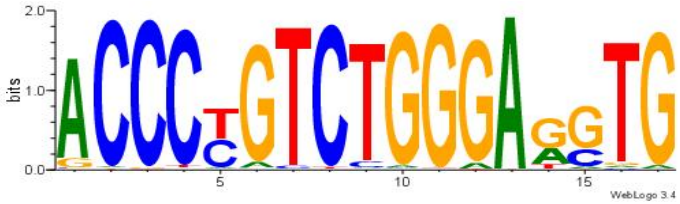

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

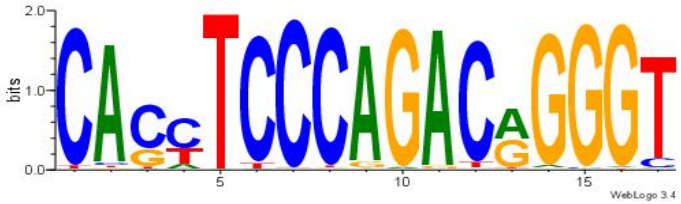

Dataset #: 1 Motif ID: 248 Motif name: Motif 248

Original motif Consensus sequence: TAATGGGTACAAA

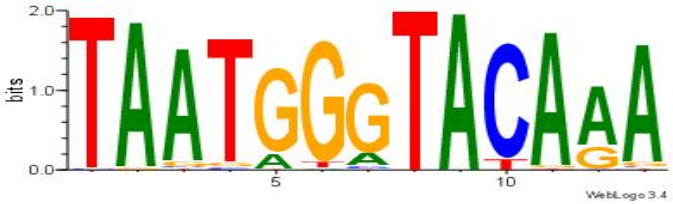

Reverse complement motif Consensus sequence: TTTGTACCCATTA

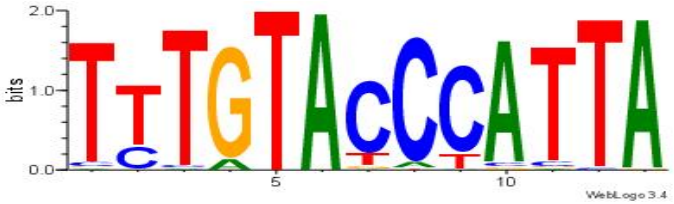

Best Matches for Motif ID 248 (Highest to Lowest)

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0609387

Alignment:

```
TGATGGGTGCACCAAA
TAATGGGTACAAA---
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

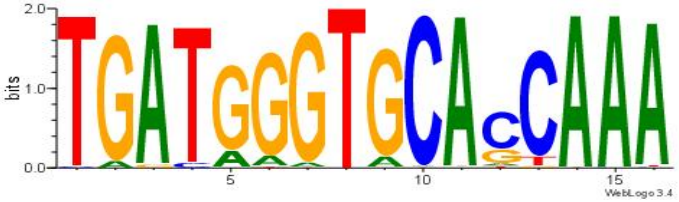

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

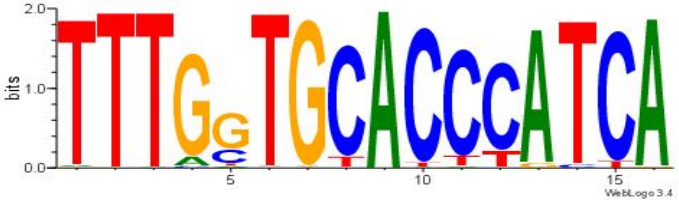

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0698241

Alignment:

```
AATTAAAAGACACAGACTG
---TAATGGGTACAAA---
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

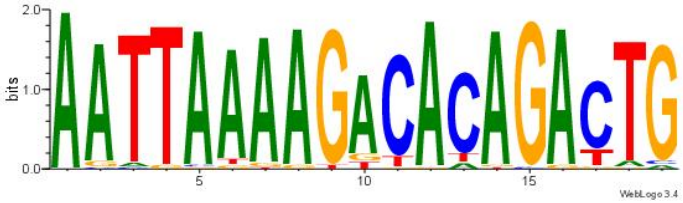

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

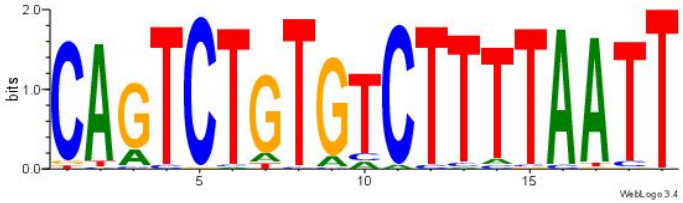

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 13
Similarity score: 0.0771988

Alignment:
TAGATAATAGCTCCAGCTTT
----TAATGGGTACAAA---

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

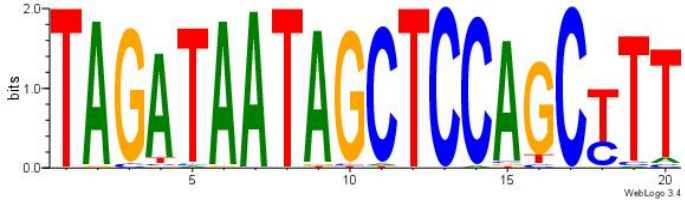

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

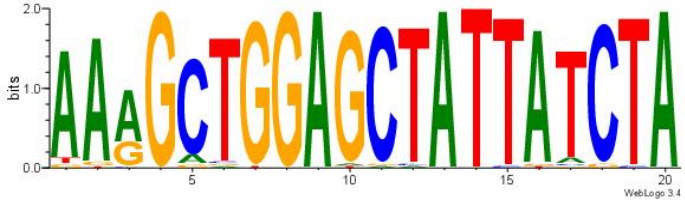

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.0773246

Alignment:
GCACATGTAYCCYAGAACTT
----TTTGTACCCATTA---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

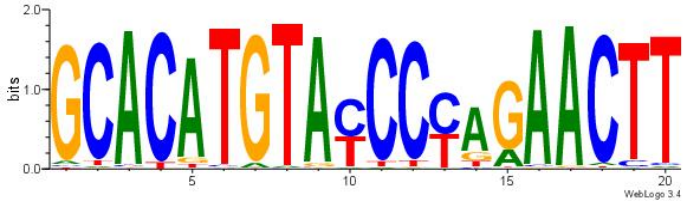

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

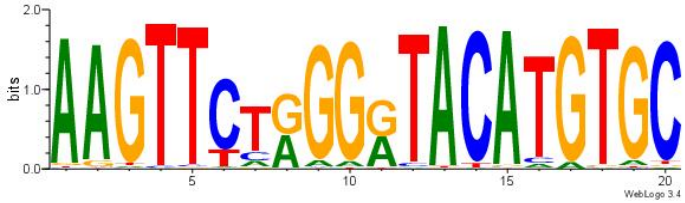

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0779989

Alignment:

```
GKCTGTACCCCCATTGTAT
---TTTGTACCCATTA---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

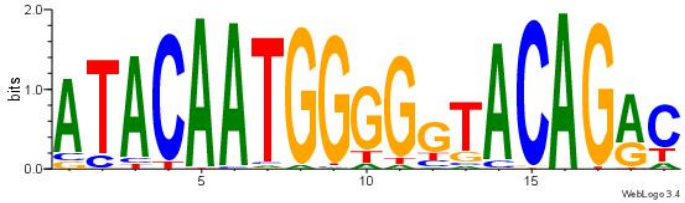

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

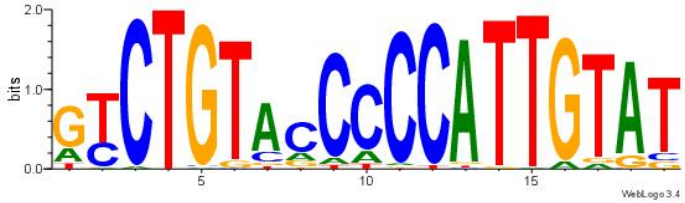

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0794579

Alignment:

```
AAGTCTCCCAATTACAACT
-TTTGTACCCATTA-----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

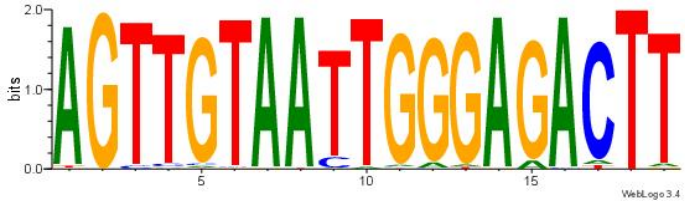

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

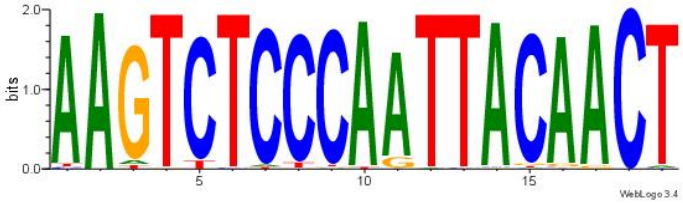

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0802689

Alignment:
TAAAAGACTACAWATTGGGT
-TAATGGGTACAAA------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

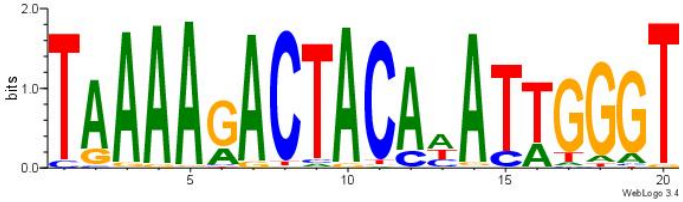

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

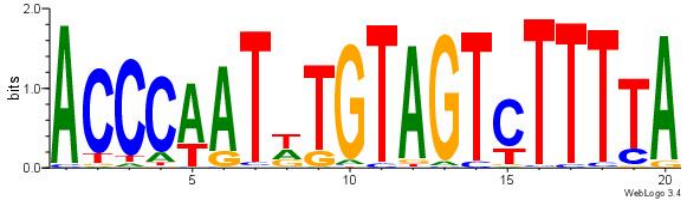

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0861128

Alignment:
GCCAATTTCTCCCATTTGGA
-----TTTGTACCCATTA--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

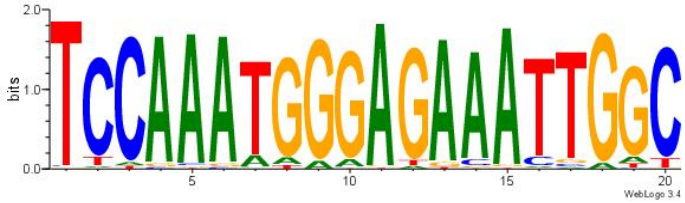

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

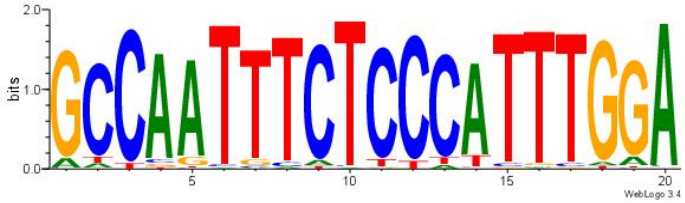

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0868621

Alignment:

```
CTATTGTGAATARTGCTGC
-TAATGGGTACAAA-----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

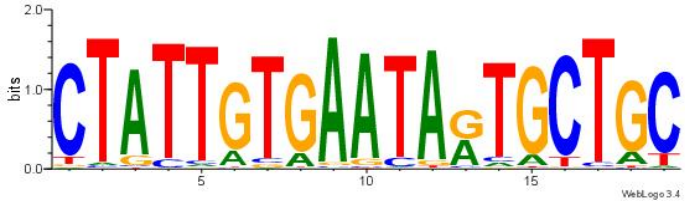

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

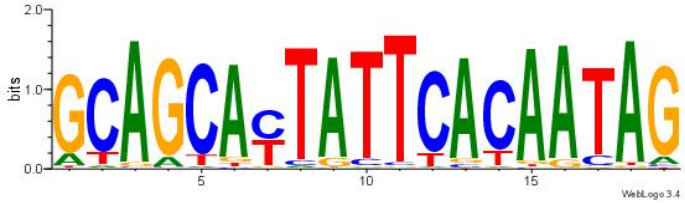

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0887214

Alignment:

```
CATTTGGGAGCCCATTGA
----TTTGTACCCATTA-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

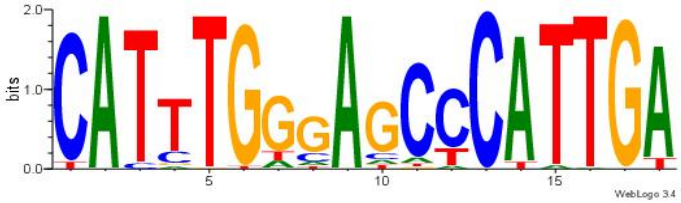

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

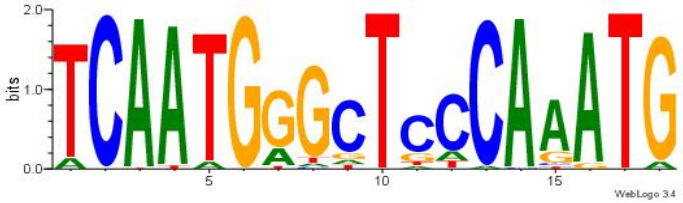

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0890114

Alignment:
AGGCTGTTTTACAGTTAAC
----TTTGTACCCATTA--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

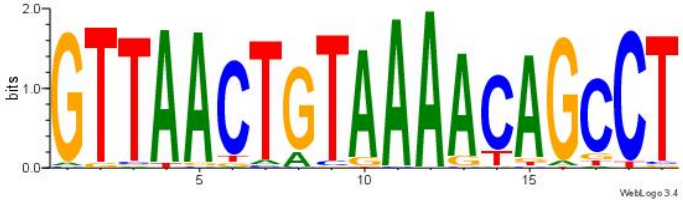

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

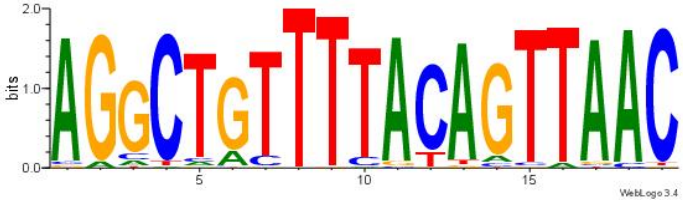

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0890899

Alignment:
AWTKKTGGTTKCCAGKGGCT
-----TAATGGGTACAAA--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

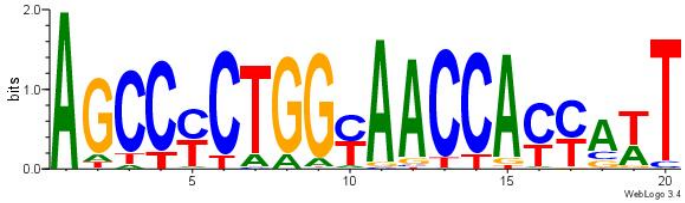

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

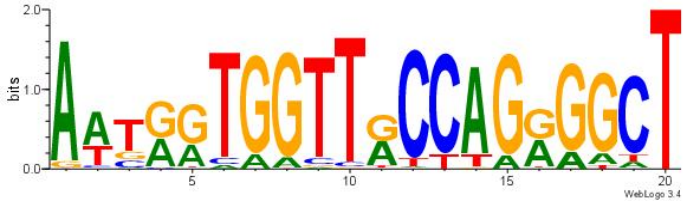

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0900187

Alignment:

```
TAAGTGGGAGCTAARC
-TAATGGGTACAAA--
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

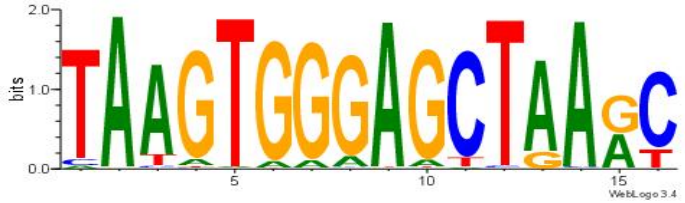

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

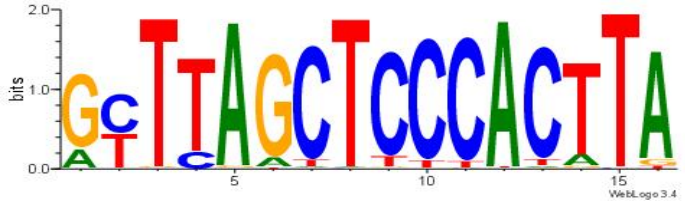

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0906164

Alignment:

```
GACATGGAGTCAAAGG
-TAATGGGTACAAA--
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

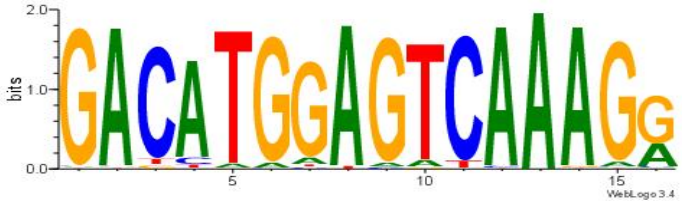

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

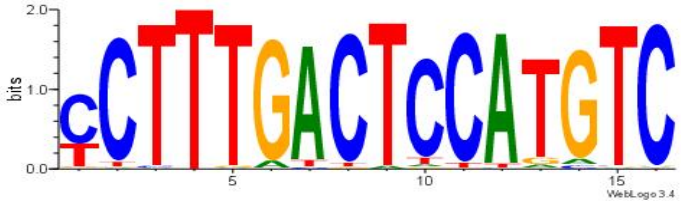

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.0906769

Alignment:
AAATTAGGCCAATTAATAAC
--TTTGTACCCATTA-----

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

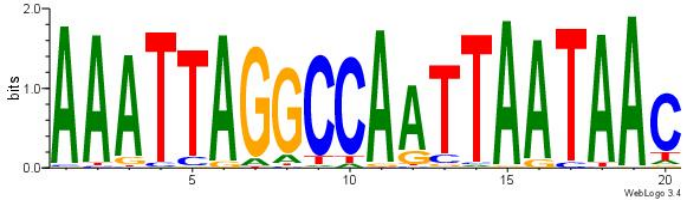

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.0926916

Alignment:
AGACAGTGGGYGCAGGHCA
---TAATGGGTACAAA---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

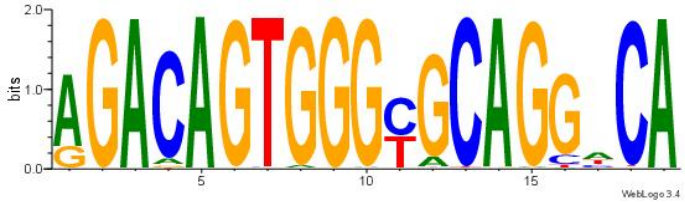

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

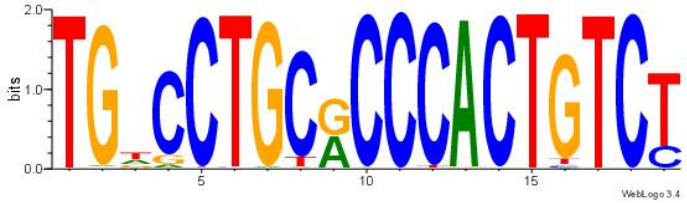

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0933671

Alignment:

```
GTTGTGAGGATTAAATGAG
TTTGTACCCATTA------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

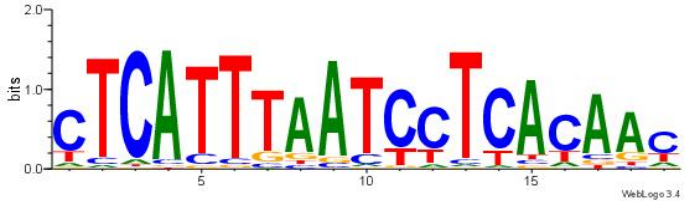

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

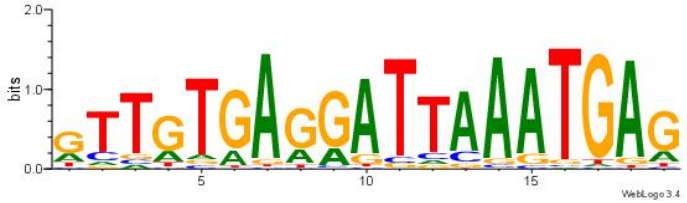

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0959469

Alignment:

```
AACCCTATTGTGAACTGYG
-----TAATGGGTACAAA-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

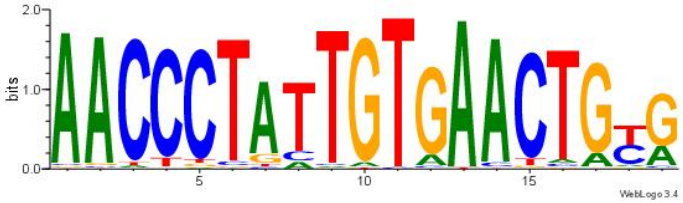

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

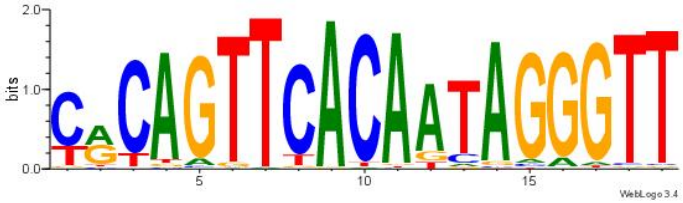

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0964512

Alignment:
TTGTTAAAAACTA
TTTGTACCCATTA

Original motif Consensus sequence: TAGTTTTTAACAA

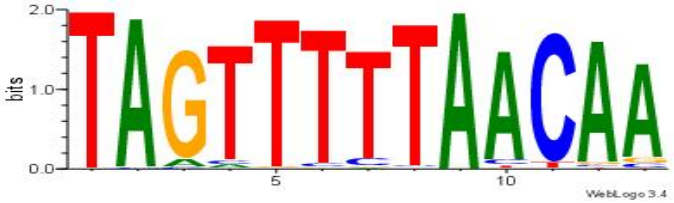

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

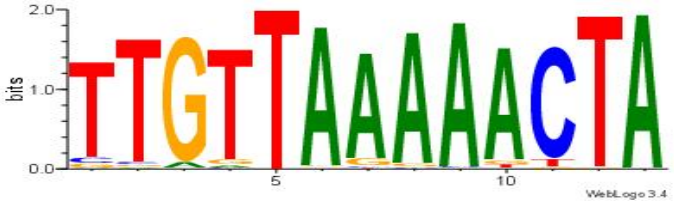

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0977532

Alignment:
TGGAGAACCTTTATGTCTAG
TTTGTACCCATTA-------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

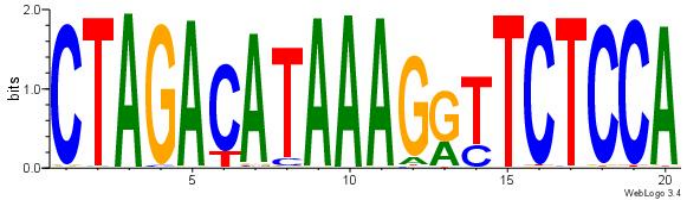

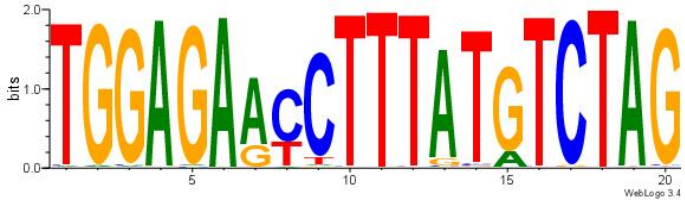

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0978697

Alignment:

```
TCAATGGTGCCCAG
-TAATGGGTACAAA
```

Original motif Consensus sequence: CTGGGCACCATTGA

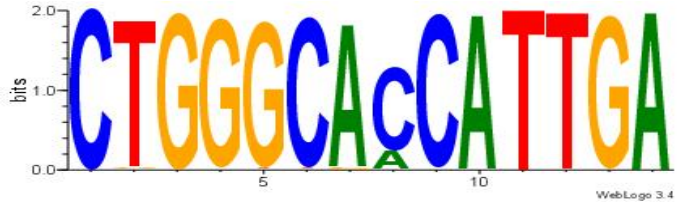

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

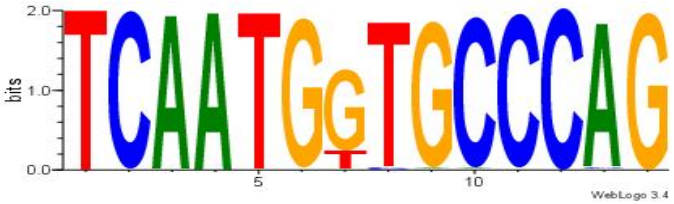

Dataset #:	1
Motif ID:	86

Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0987553

Alignment:

```
VMATTTAKTGAGCACCTACT
--TAATGGGTACAAA-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

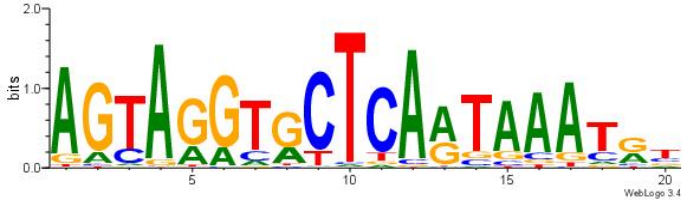

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

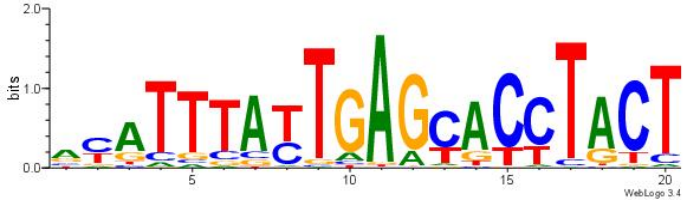

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0989373

Alignment:
GCCGTTTKTTAAGCCCGTY
TTTGTACCCATTA------

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

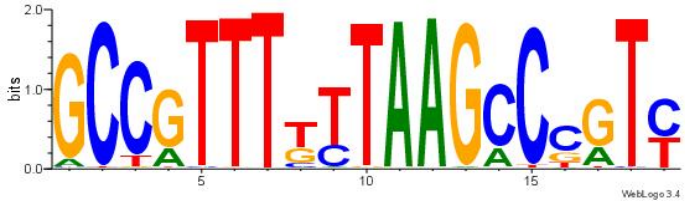

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

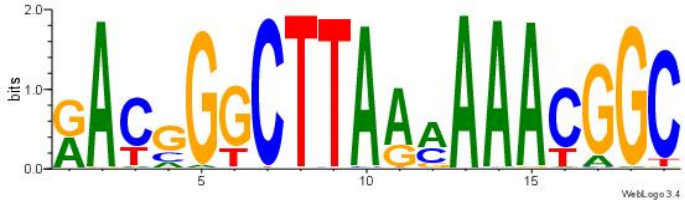

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0992278

Alignment:
ARCTCCTGKSCTCAAGKGAT
----TAATGGGTACAAA---

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

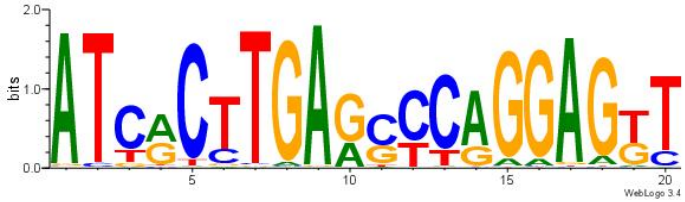

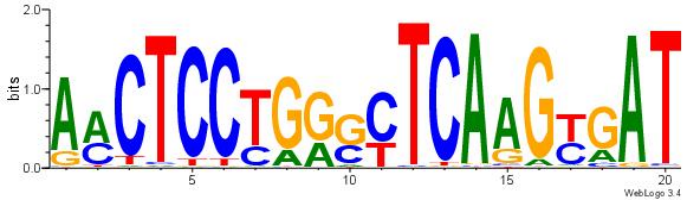

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.100367

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-----TTTGTACCCATTA--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

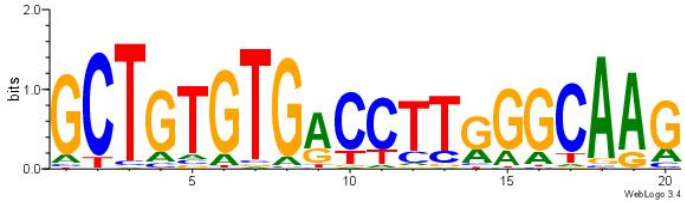

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

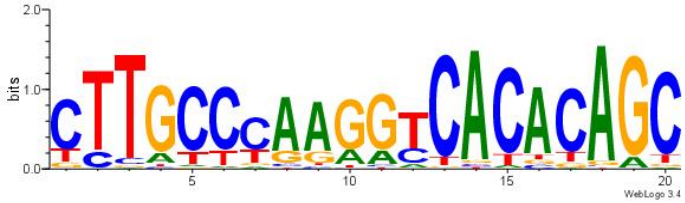

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.100478

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
------TTTGTACCCATTA-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

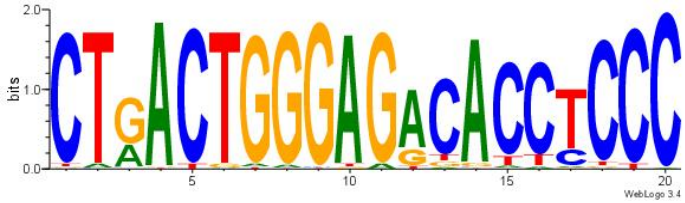

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

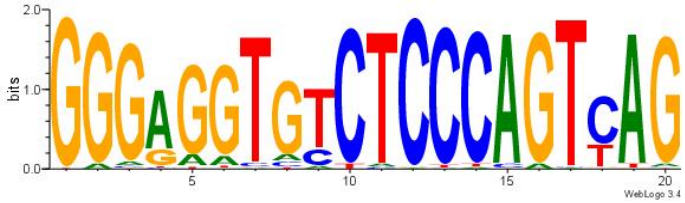

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.100909

Alignment:
TWTACCTATGTAACAAACCT
------TTTGTACCCATTA-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

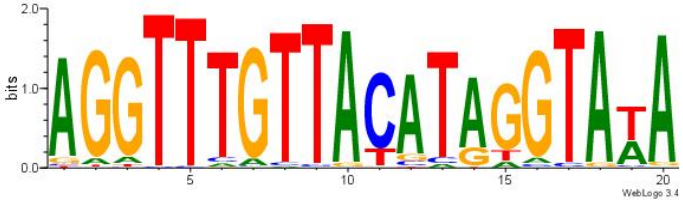

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

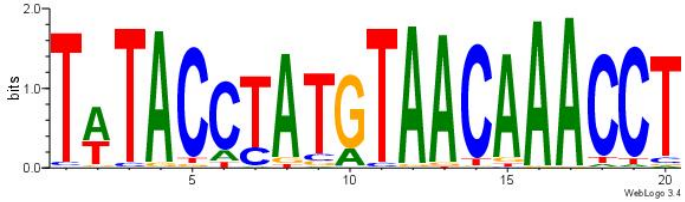

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.10152

Alignment:
AAGCTCGAACTGGGTGGAGC
-------TAATGGGTACAAA

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

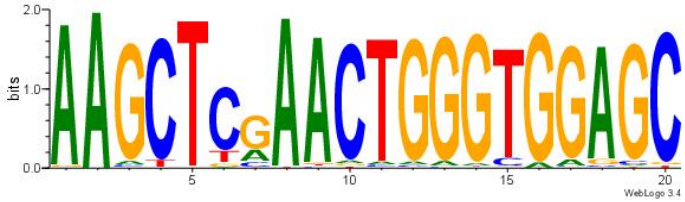

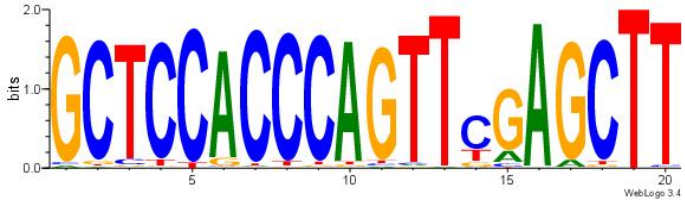

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.10233

Alignment:

```
GGATCCACTGGGTGAAGCCA
-----TAATGGGTACAAA--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

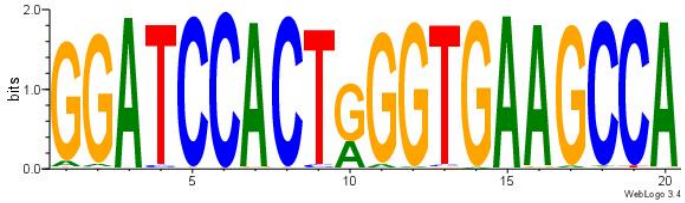

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

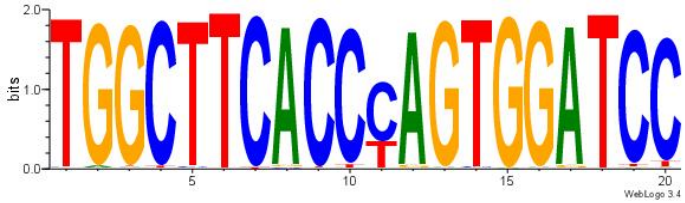

Dataset #: 1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.102753

Alignment:

```
CAAAGGCATAAGAATGAT
-TAATGGGTACAAA----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

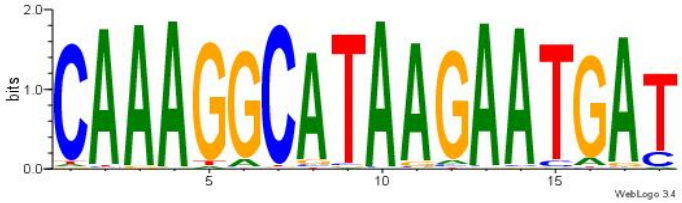

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

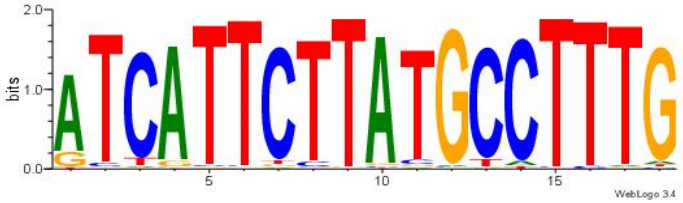

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.103517

Alignment:
AGTGACCCGATTTTCCAGGT
TTTGTACCCATTA-------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

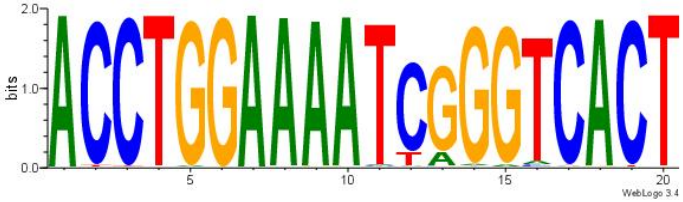

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

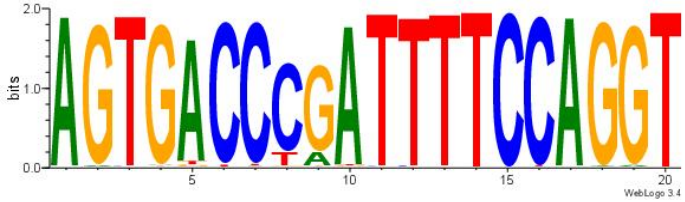

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.104195

Alignment:
CAAGTTGACACATAAAATTA
-TAATGGGTACAAA------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

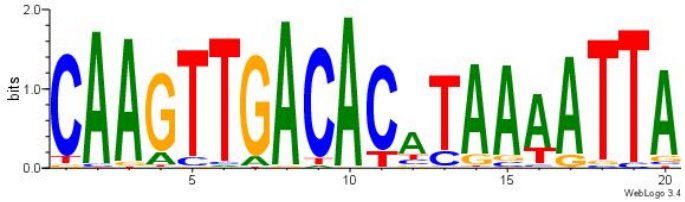

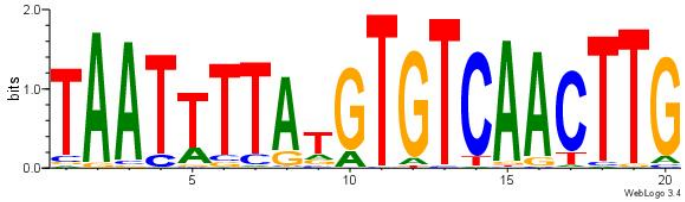

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.104382

Alignment:

```
TGTAKTCCCAGCTAC
TTTGTACCCATTA--
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

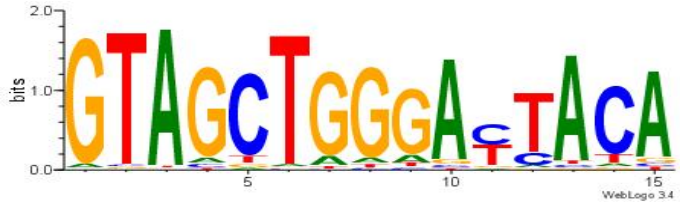

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

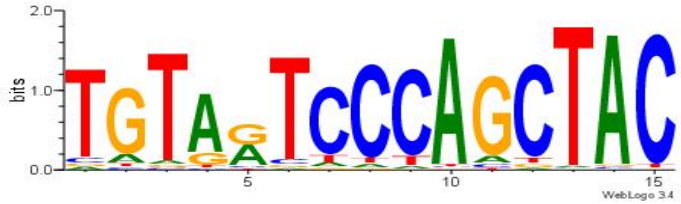

Dataset #:	1
Motif ID:	169

Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.104405

Alignment:

```
CCCAAATCCTATAAAA
--TAATGGGTACAAA-
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

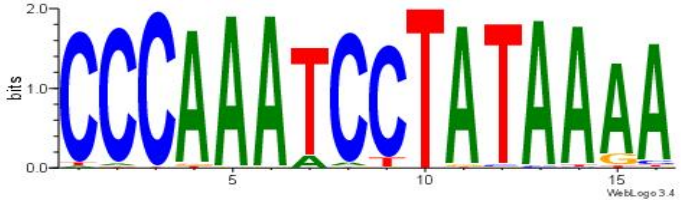

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

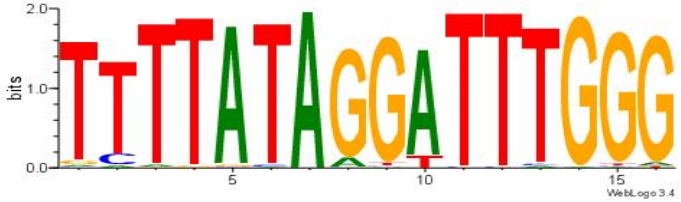

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10497

Alignment:
GTKTMTATMTACCACATTTT
-TTTGTACCCATTA------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

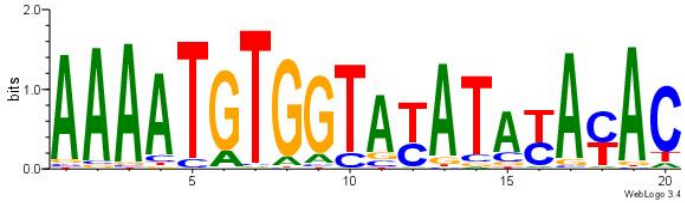

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

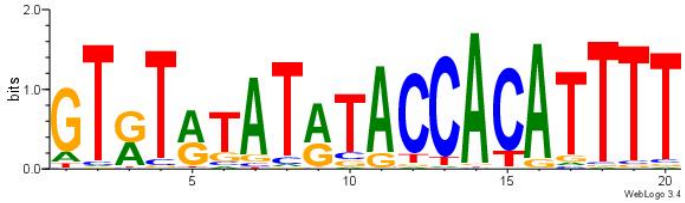

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.105761

Alignment:
CTCAGGAATGGAAAACC
-TAATGGGTACAAA---

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence:
GGTTTTCCATTCCTGAG

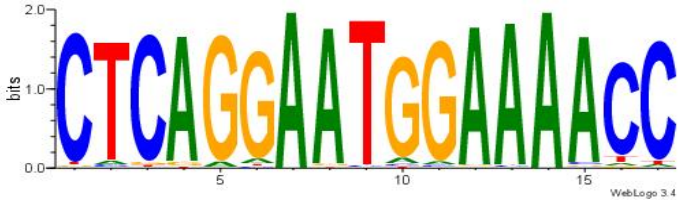

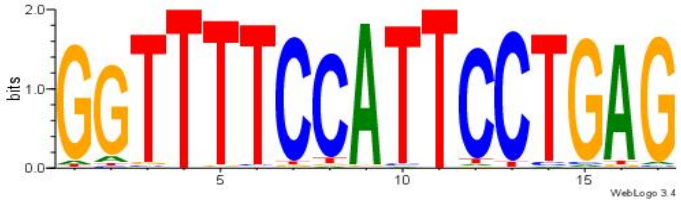

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106318

Alignment:

```
TATGAGCCTGTAA
TTTGTACCCATTA
```

Original motif Consensus sequence: TATGAGCCTGTAA

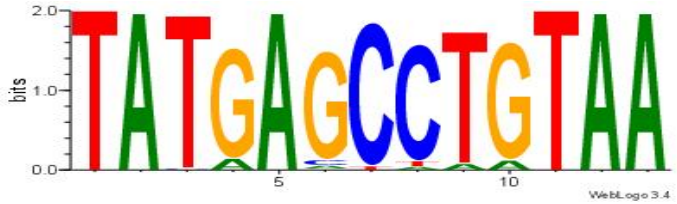

Reverse complement motif Consensus sequence: TTACAGGCTCATA

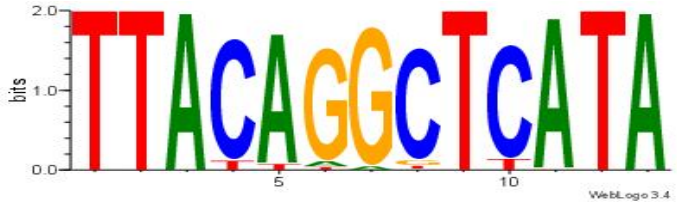

Dataset #:	1
Motif ID:	171

Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.106568

Alignment:

```
ACTTTGGACTGTGGACTTTT
--TTTGTACCCATTA-----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

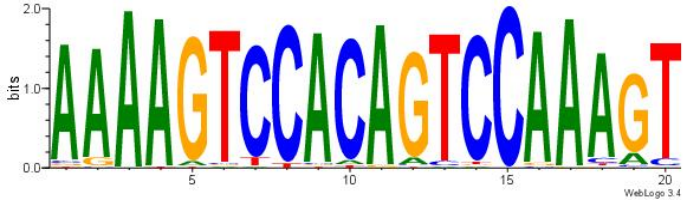

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

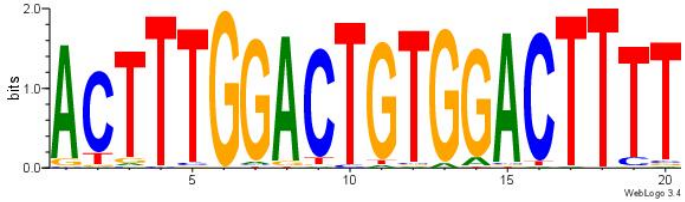

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10689

Alignment:
GGGTCAGGGAGTTCCCTTTC
-------TTTGTACCCATTA

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

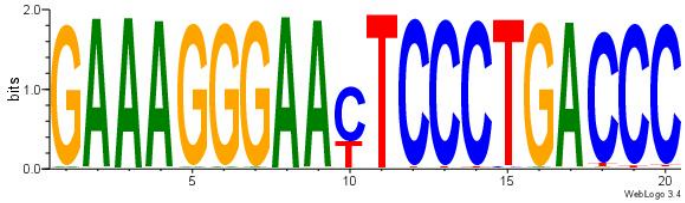

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

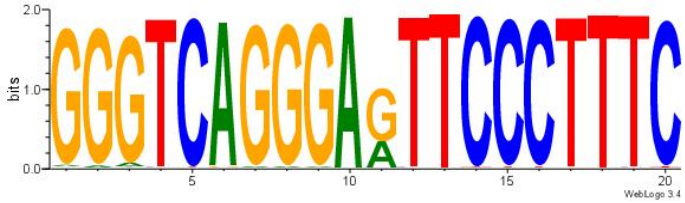

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.106916

Alignment:
AGCTAGAYACAGAGTGC
TAATGGGTACAAA----

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence:
GCACTCTGTMTCTAGCT

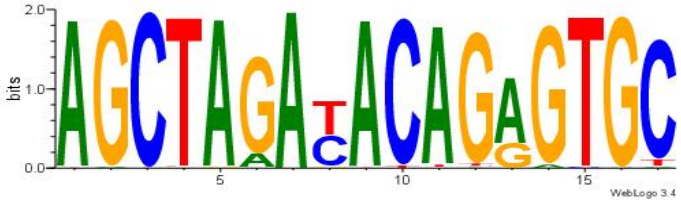

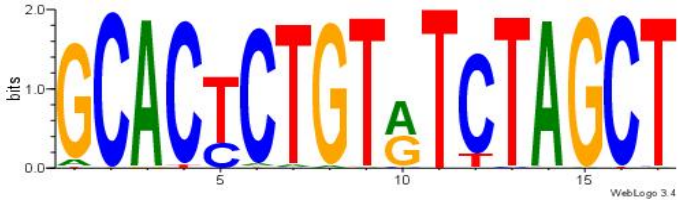

Dataset #:	1
Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.10696

Alignment:

```
TTGAGAACCACTG
TTTGTACCCATTA
```

Original motif Consensus sequence: CAGTGGTTCTCAA

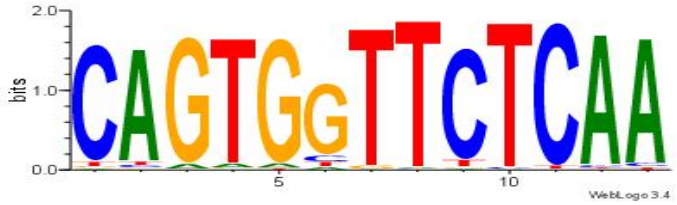

Reverse complement motif Consensus sequence: TTGAGAACCACTG

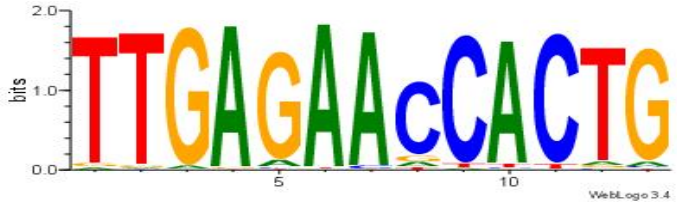

Dataset #:	1
Motif ID:	332

Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.107318

Alignment:

```
GTTTAACCATTGAGGGCCAG
TTTGTACCCATTA-------
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

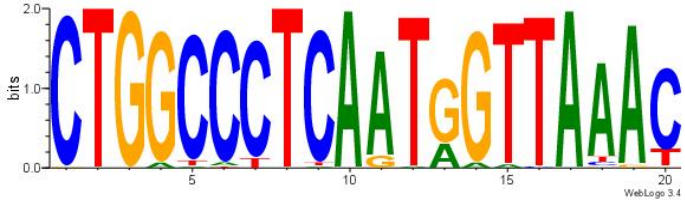

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

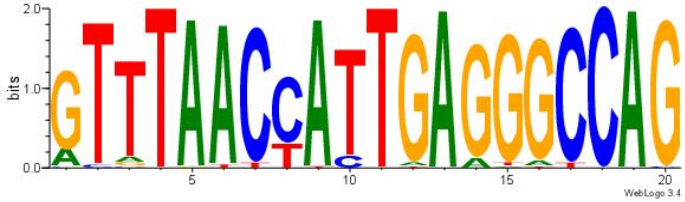

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.10739

Alignment:
AAATTACCCAGTCTCAGGTA
-------TTTGTACCCATTA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

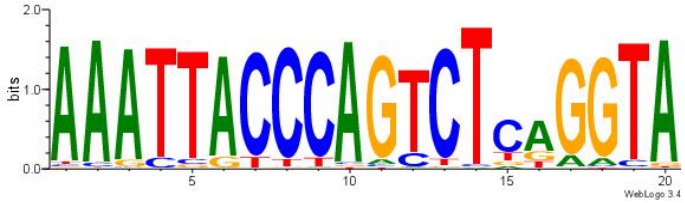

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

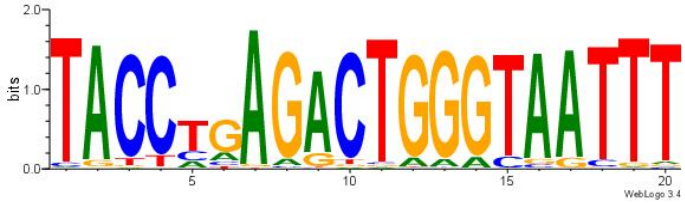

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.107934

Alignment:
ACTTTCAGGCATAACA
-TTTGTACCCATTA--

Original motif Consensus sequence: ACTTTCAGGCATAACA

Reverse complement motif Consensus sequence:
TGTTATGCCTGAAAGT

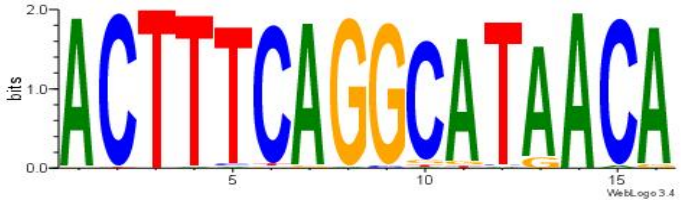

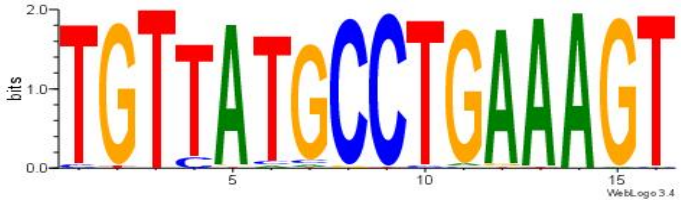

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.108596

Alignment:

```
AGGTCCTTCAGGAGGTATTC
TTTGTACCCATTA-------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

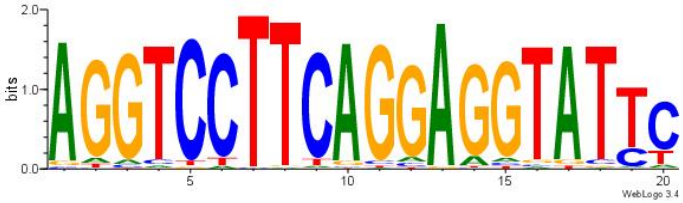

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

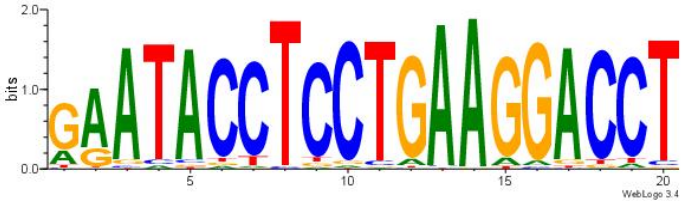

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.10936

Alignment:

```
CTCCAGKTMCATCCATGTTG
-----TTTGTACCCATTA--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

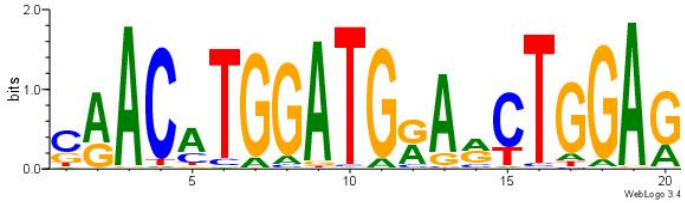

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

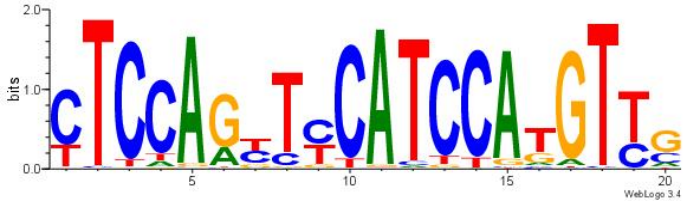

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.109944

Alignment:
GGCATCACGGATCCTACCAA
----TAATGGGTACAAA---

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

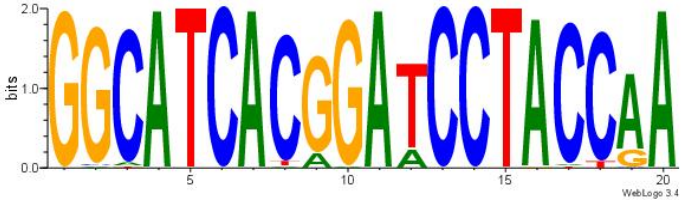

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

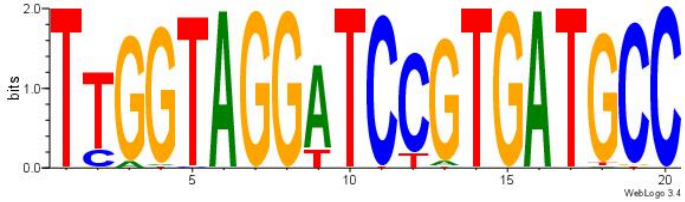

Dataset #: 1
Motif ID: 117
Motif name: Motif 117
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.11057

Alignment:
AACAACAACAACAAMAA
--TAATGGGTACAAA--

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

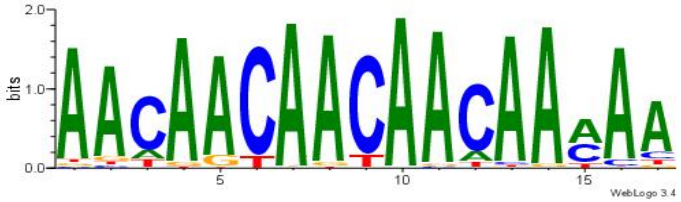

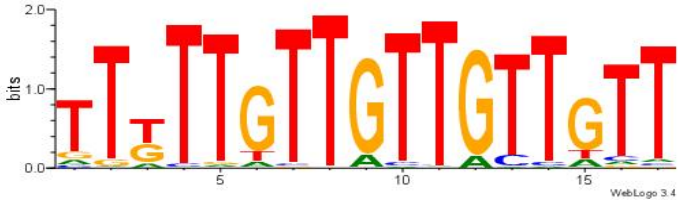

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.111797

Alignment:

```
GATCACGAGGTCAGGAG
--TAATGGGTACAAA--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

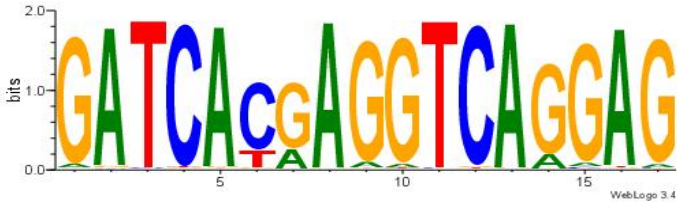

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

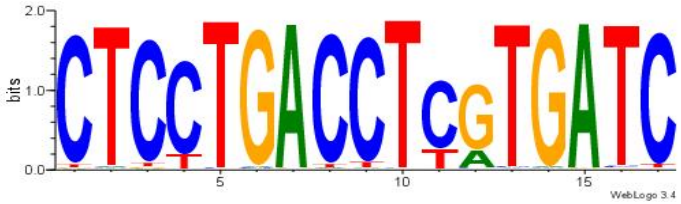

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.112601

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
-----TAATGGGTACAAA--
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

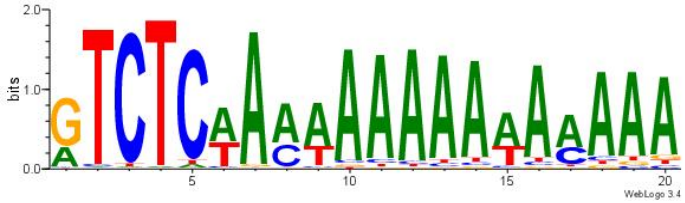

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

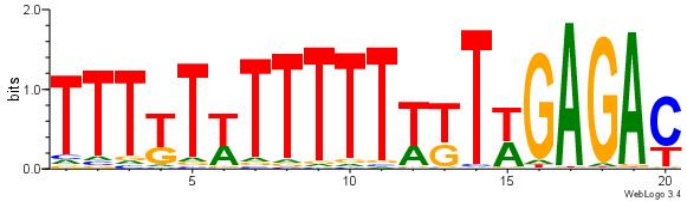

Dataset #: 1 Motif ID: 249 Motif name: Motif 249

Original motif Consensus sequence: TGTGAAGAGACCACCAA

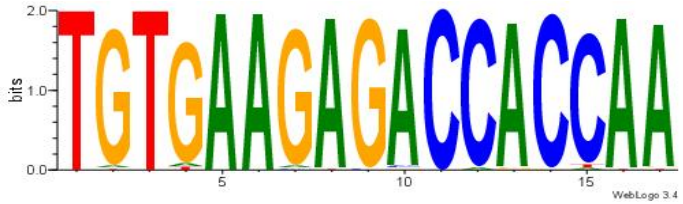

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

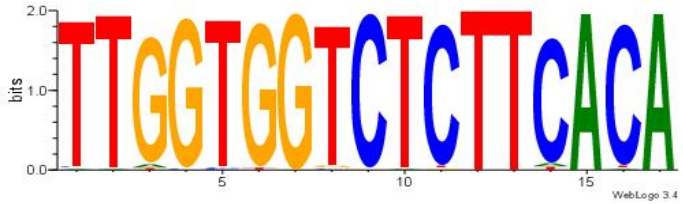

Best Matches for Motif ID 249 (Highest to Lowest)

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0818261

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
---TGTGAAGAGACCACCAA
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

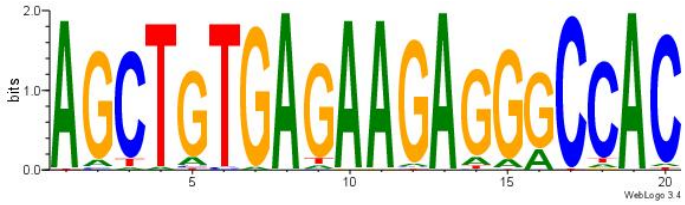

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

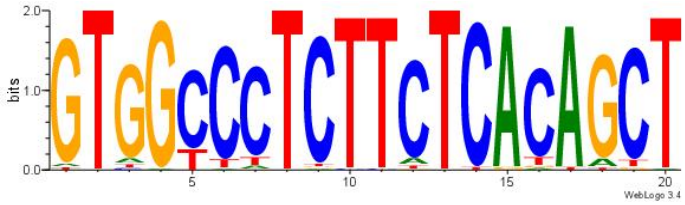

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.106605

Alignment:
MGTGTGATGTCTCCCCC
TTGGTGGTCTCTTCACA

Original motif Consensus sequence: GGGGGAGACATCACACR

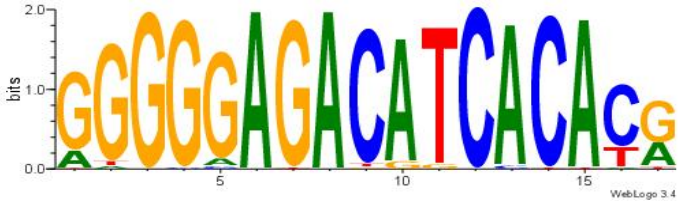

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

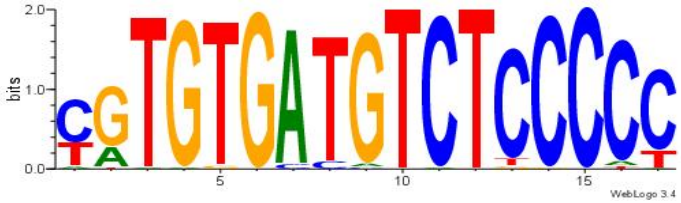

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.110316

Alignment:
GTKTMTATMTACCACATTTT
--TGTGAAGAGACCACCAA-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

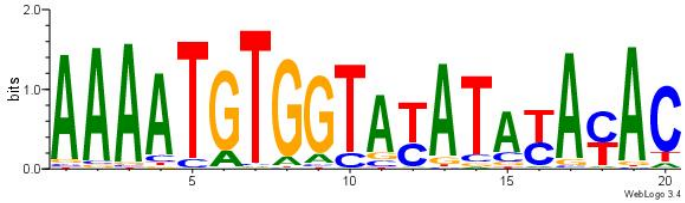

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

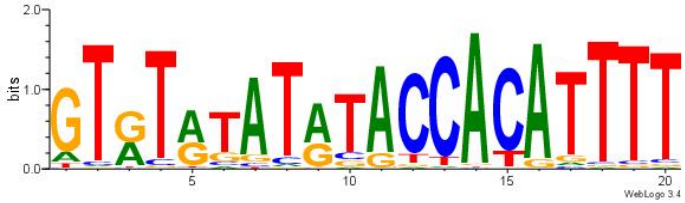

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.112629

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
---TGTGAAGAGACCACCAA
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

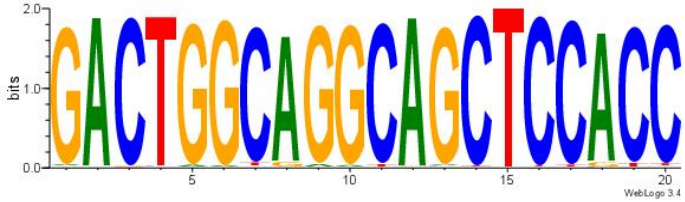

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

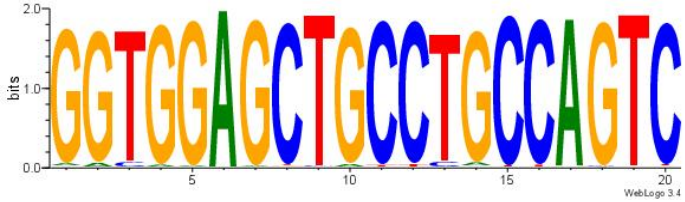

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.112706

Alignment:

```
TGCTGGAGGTCCACTCCAGA
---TTGGTGGTCTCTTCACA
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

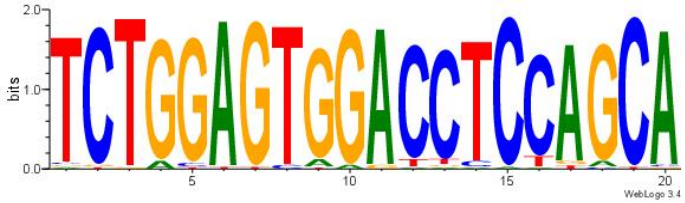

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

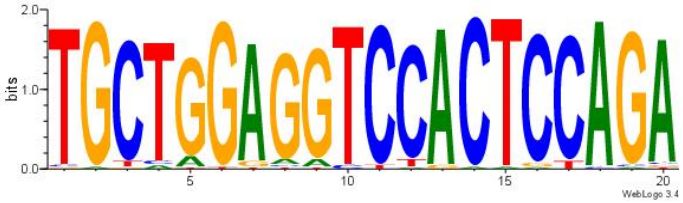

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.11443

Alignment:
GGTGGGGGGGTCAGCCCCC
-TTGGTGGTCTCTTCACA-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

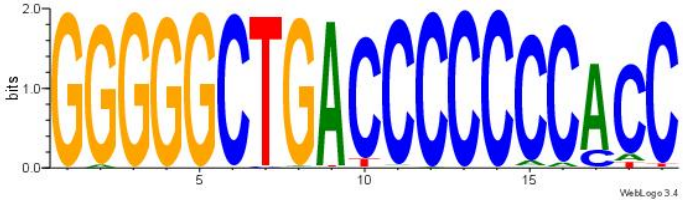

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

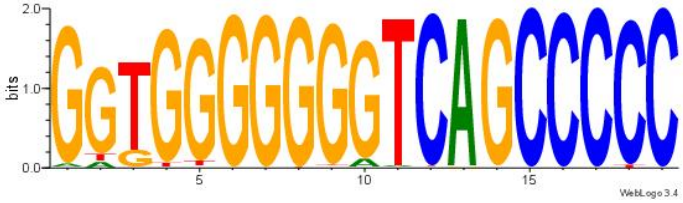

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.114605

Alignment:
ATGTAACCAAAYACCACCTG
---TGTGAAGAGACCACCAA

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

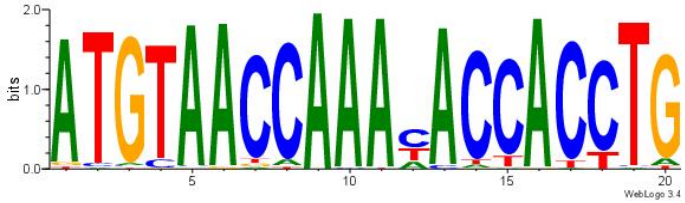

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

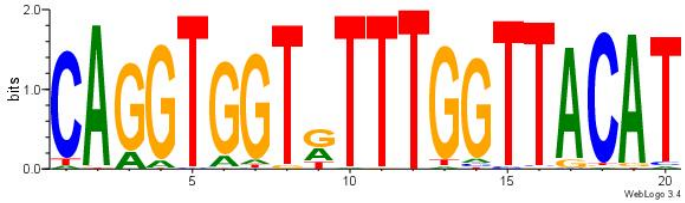

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.114866

Alignment:

```
CTTGGGTGGTCGATGGGAC
--TTGGTGGTCTCTTCACA
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

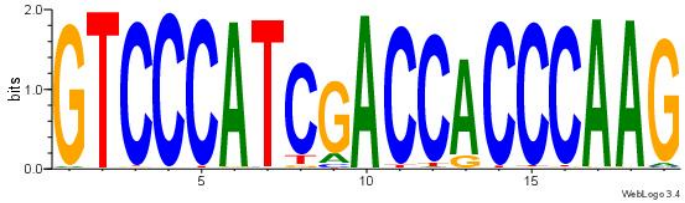

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

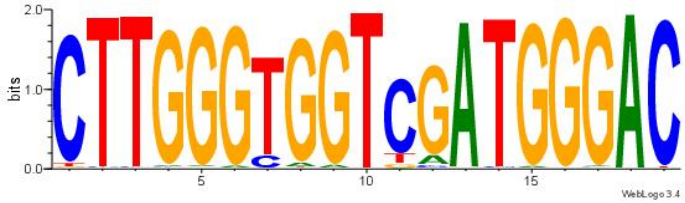

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.115546

Alignment:
GCCGGGRAGAGGCGCTCCT
TGTGAAGAGACCACCAA--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

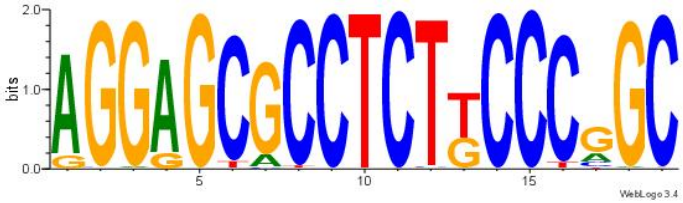

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

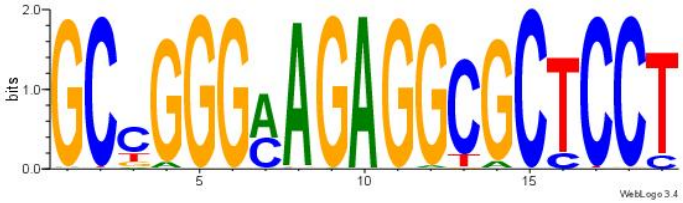

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.115892

Alignment:
CCCTGCTAGAACCTCCAA
-TGTGAAGAGACCACCAA

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

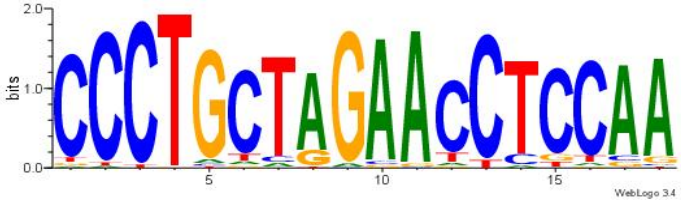

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

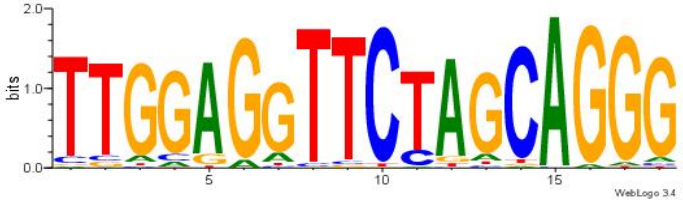

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.116798

Alignment:
CTTTCTGGGCTGGCCAAGG
-TTGGTGGTCTCTTCACA-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

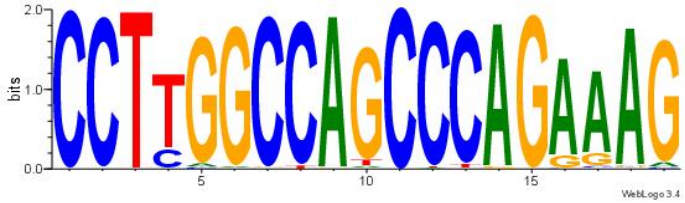

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

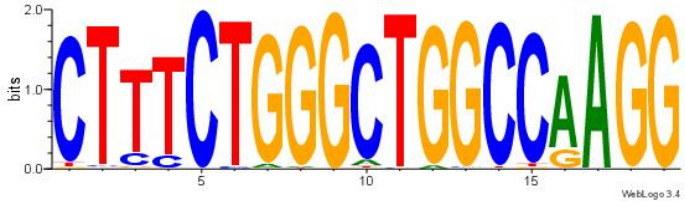

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.121761

Alignment:

```
GTTGTGAGGATTAAATGAG
TGTGAAGAGACCACCAA--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

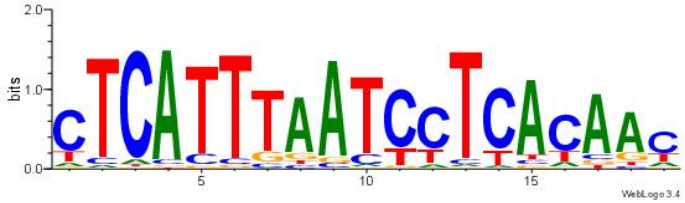

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

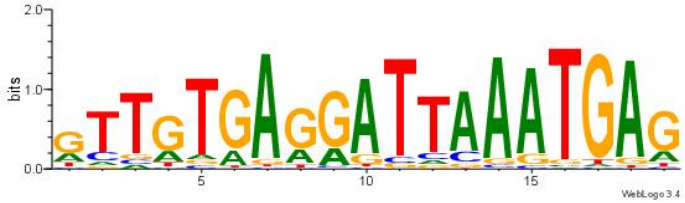

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.121931

Alignment:

```
AGACAGTGGGYGCAGGHCA
TTGGTGGTCTCTTCACA--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

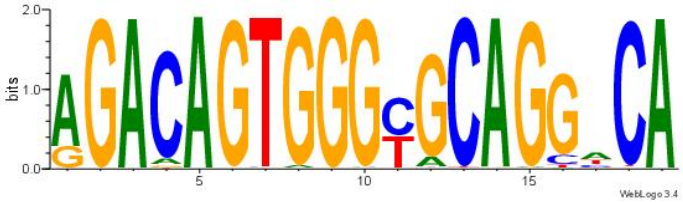

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

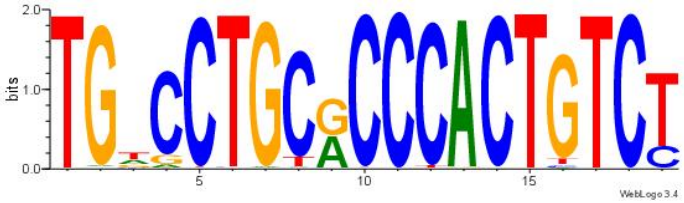

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.123559

Alignment:
TTTYTWTTTTTTYTWGAGAC
--TTGGTGGTCTCTTCACA-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

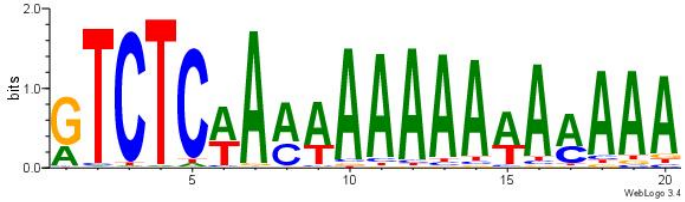

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

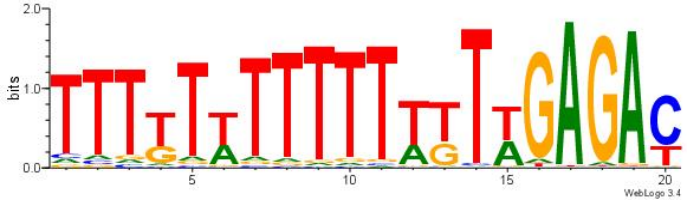

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.1241

Alignment:
ATTGGTGTATTTACAATCCC
--TTGGTGGTCTCTTCACA-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

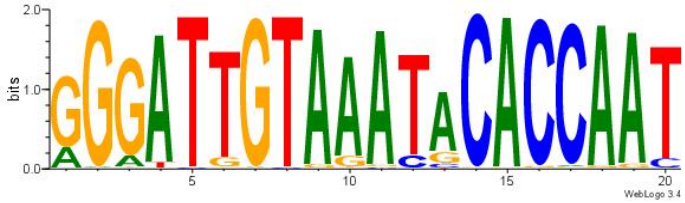

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.124148

Alignment:

```
GCTGCARTCTCGGCACTTT
TTGGTGGTCTCTTCACA--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

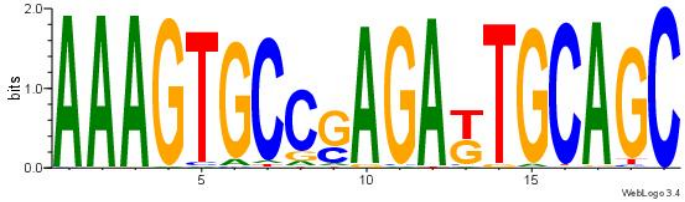

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

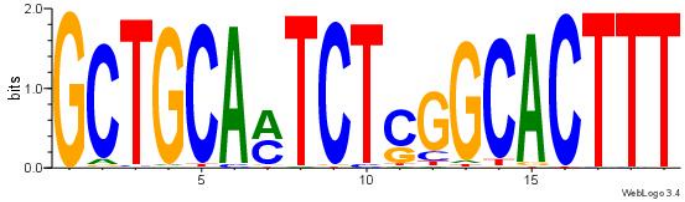

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.124402

Alignment:

```
MTCCTCCAGACCCCAGAATG
--TGTGAAGAGACCACCAA-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

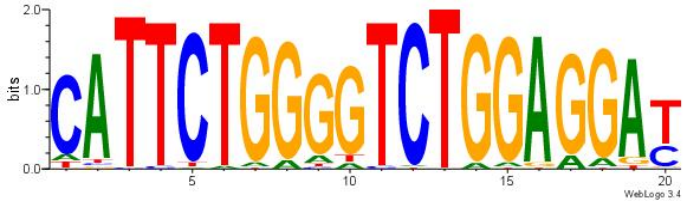

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

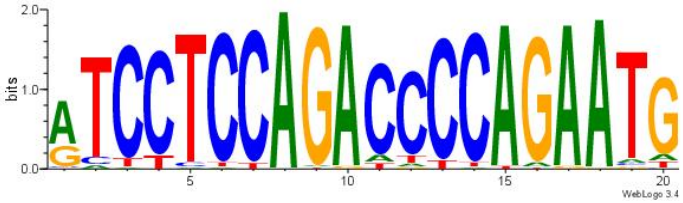

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.124734

Alignment:
TAGTGGTGATTTSTGAGAT
--TTGGTGGTCTCTTCACA

Original motif Consensus sequence: ATCTCASAAATCACCACTA

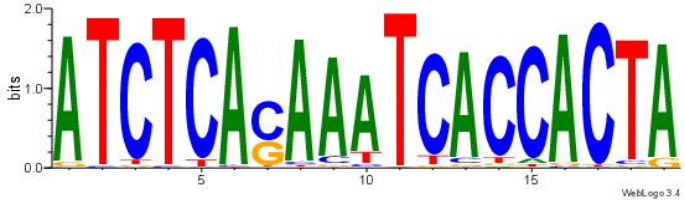

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

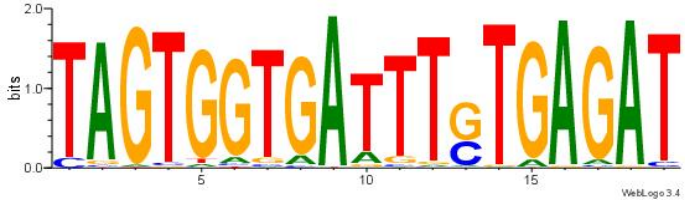

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.124996

Alignment:
AAAAGTCCACAGTCCAAAGT
---TGTGAAGAGACCACCAA

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

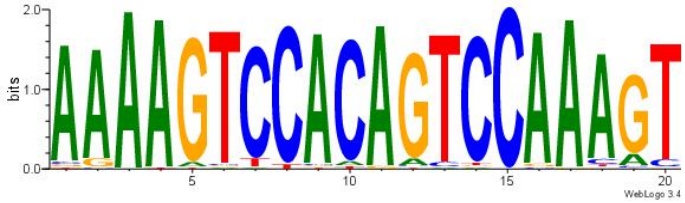

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

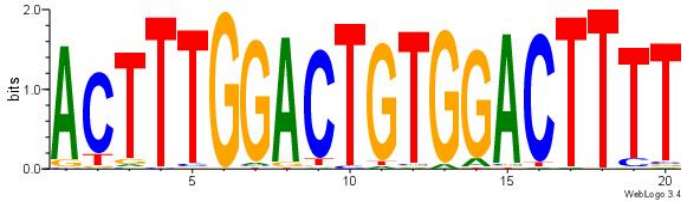

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.125606

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
---TTGGTGGTCTCTTCACA
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

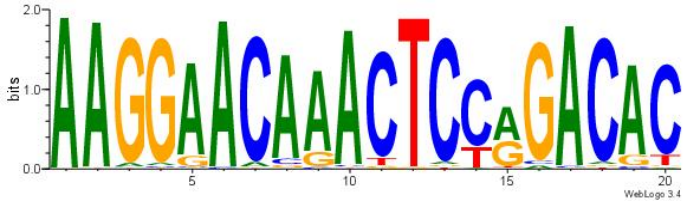

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

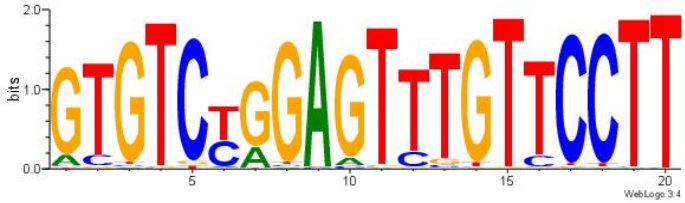

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.125713

Alignment:
CTCCTGACCTCGTGATC
TTGGTGGTCTCTTCACA

Original motif Consensus sequence: GATCACGAGGTCAGGAG

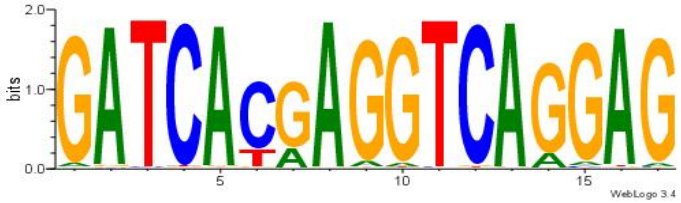

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

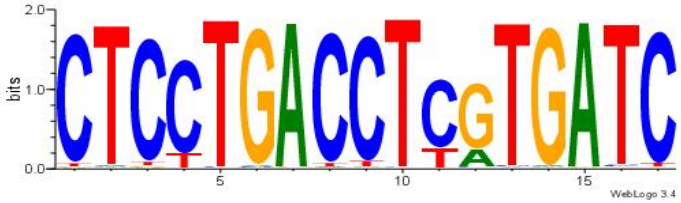

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.126919

Alignment:
VMATTTAKTGAGCACCTACT
--TGTGAAGAGACCACCAA-

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

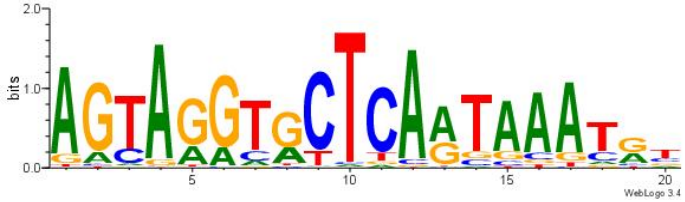

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

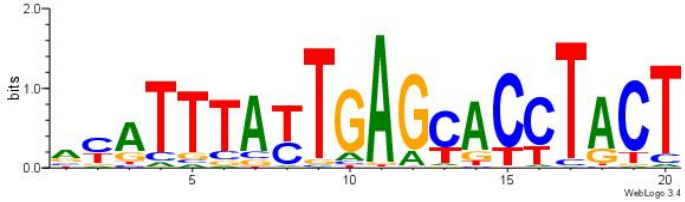

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.127318

Alignment:
CAGTCTGTGTCTTTTAATT
--TTGGTGGTCTCTTCACA

Original motif Consensus sequence: AATTAAAAGACACAGACTG

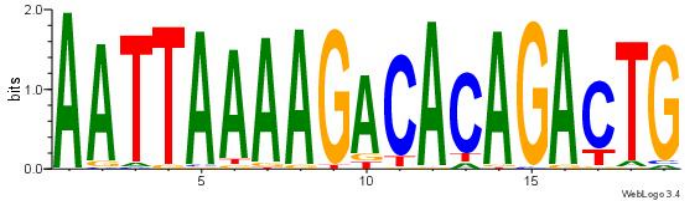

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

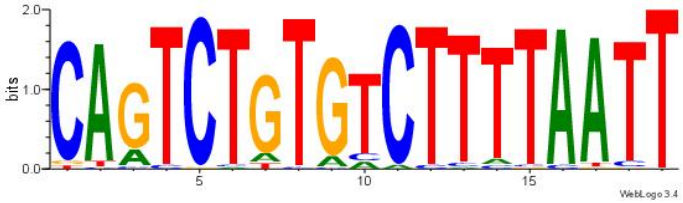

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.127482

Alignment:

```
TAGATAATAGCTCCAGCTTT
TTGGTGGTCTCTTCACA---
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

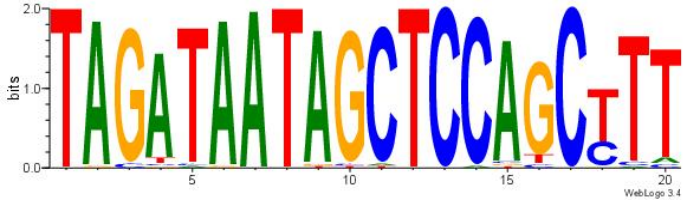

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

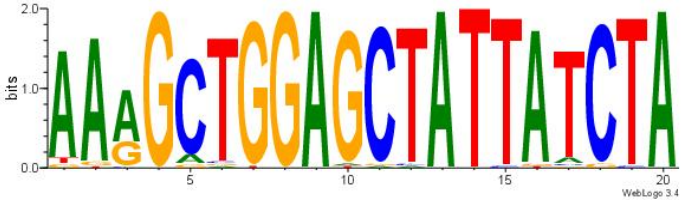

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.12757

Alignment:

```
GGCATCACGGATCCTACCAA
---TGTGAAGAGACCACCAA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

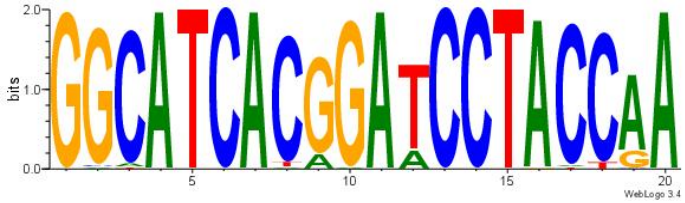

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

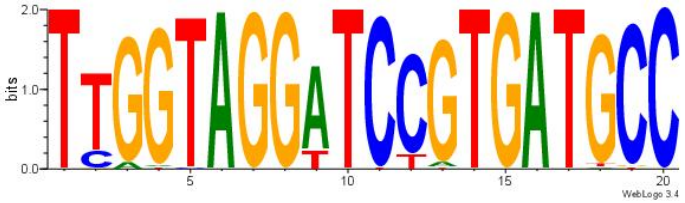

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 17
Similarity score: 0.127777

Alignment:
ACCTGGAAAATCGGGTCACT
TTGGTGGTCTCTTCACA---

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

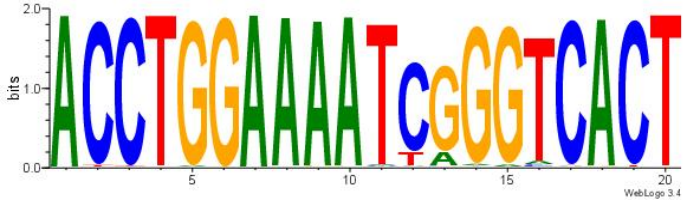

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

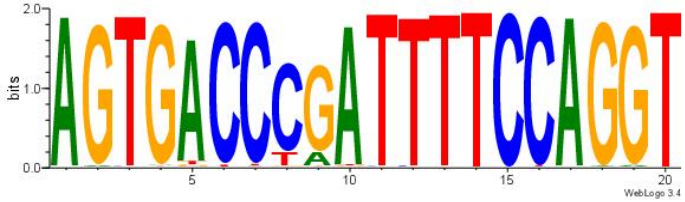

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.128781

Alignment:
ATGTGGAGGTGGAAGACAGT
--TGTGAAGAGACCACCAA-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

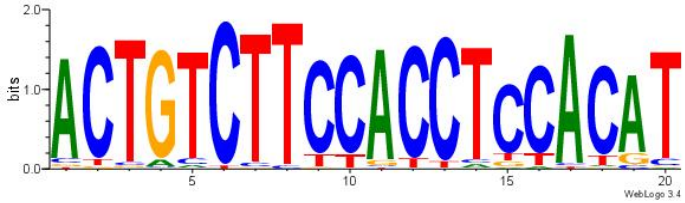

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

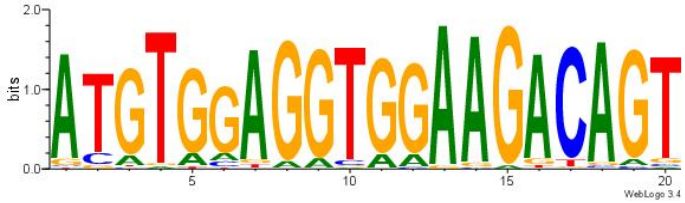

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.128854

Alignment:

```
ATGGAATAYTATTCAGCCAT
---TTGGTGGTCTCTTCACA
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

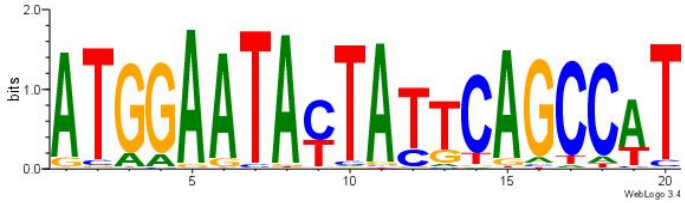

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

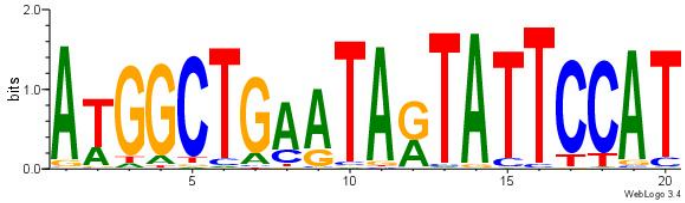

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.129861

Alignment:

```
AGCCYCTGGYAACCAYYAWT
--TGTGAAGAGACCACCAA-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

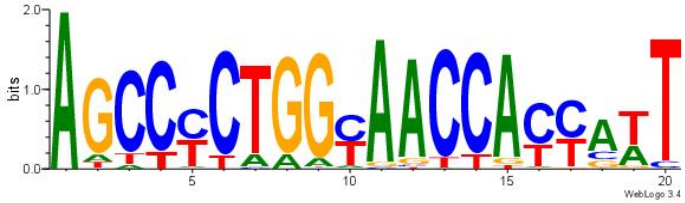

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

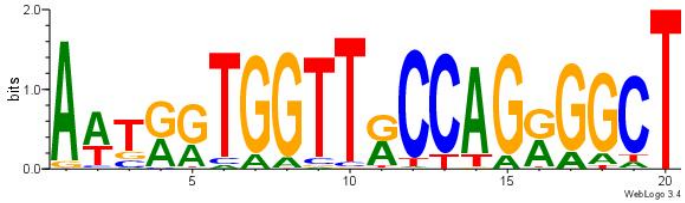

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.132739

Alignment:
CTTGCGCTTCCCRRGTGA
TTGGTGGTCTCTTCACA-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

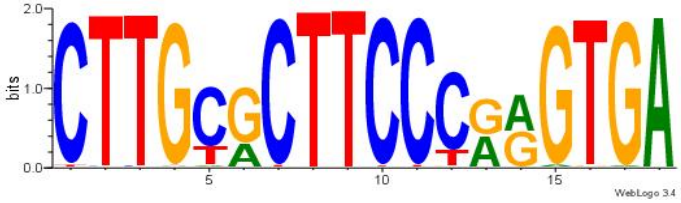

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

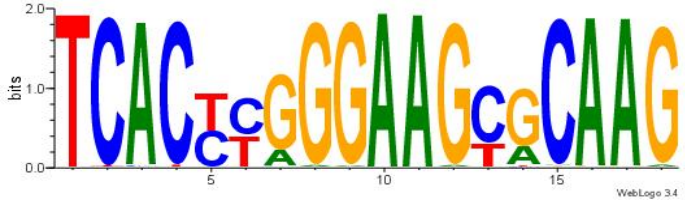

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.133864

Alignment:
TAATTTTATGTGTCAACTTG
---TGTGAAGAGACCACCAA

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

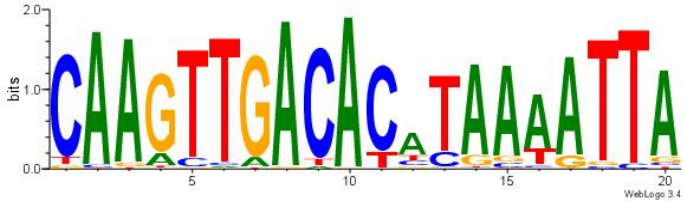

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

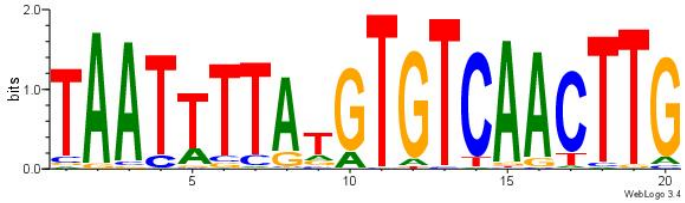

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.135661

Alignment:

```
GTTTAACCATTGAGGGCCAG
---TGTGAAGAGACCACCAA
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

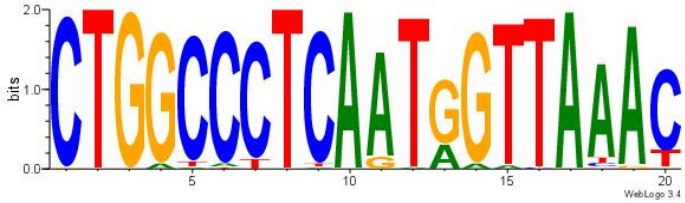

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

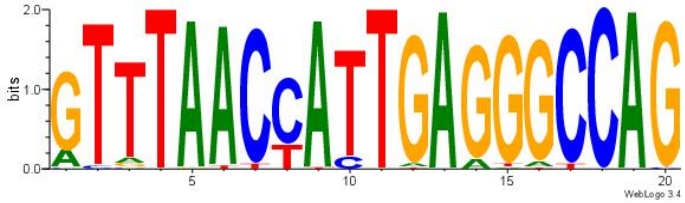

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.135735

Alignment:

```
AGGTTTGTTACATAGGTAWA
TTGGTGGTCTCTTCACA---
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

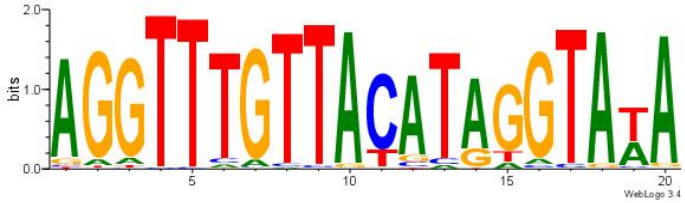

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

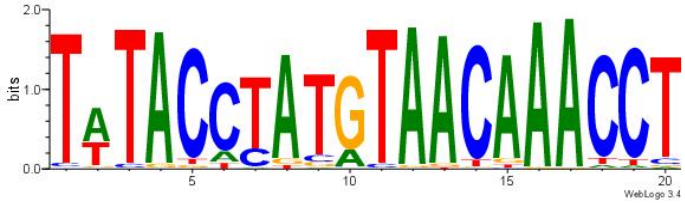

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.136021

Alignment:
AGTGAGAACATRYRRTRTTT
--TGTGAAGAGACCACCAA-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

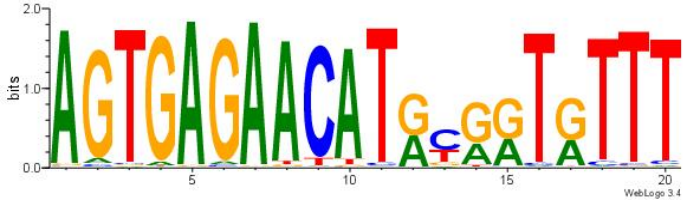

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

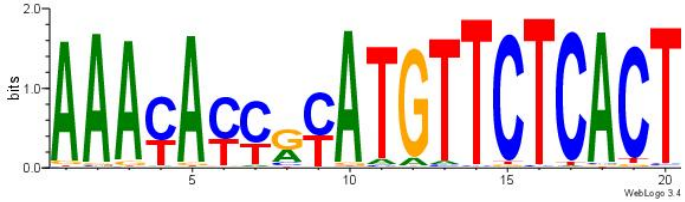

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.136081

Alignment:
TYTGTCMTTTTGTGACTGGC
TTGGTGGTCTCTTCACA---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

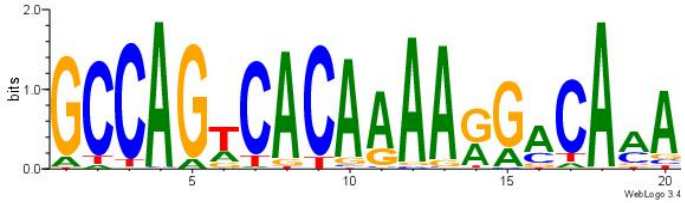

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

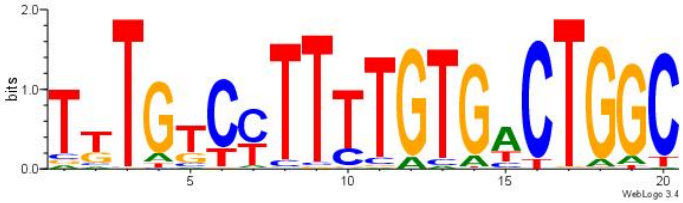

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.136617

Alignment:

```
CTGGGCRACAGAGYRAGACY
--TGTGAAGAGACCACCAA-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

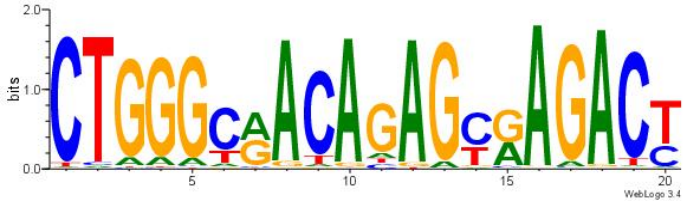

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

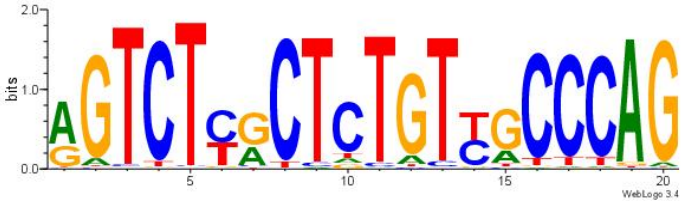

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.136714

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--TTGGTGGTCTCTTCACA-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

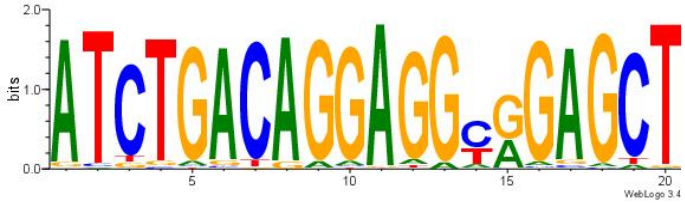

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

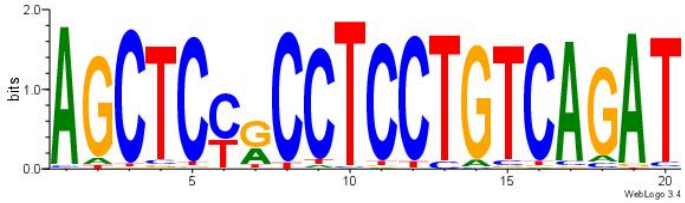

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.136867

Alignment:
GACTTCAAGAATGAAGCCG
--TGTGAAGAGACCACCAA

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

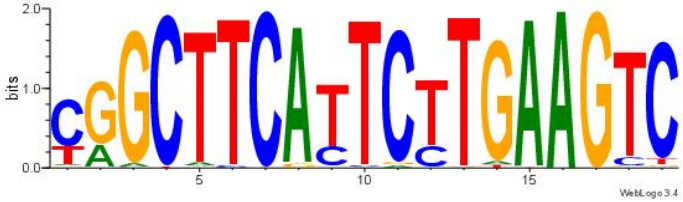

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.13765

Alignment:
GTGCCAGGCACTGTKCTARG
---TTGGTGGTCTCTTCACA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

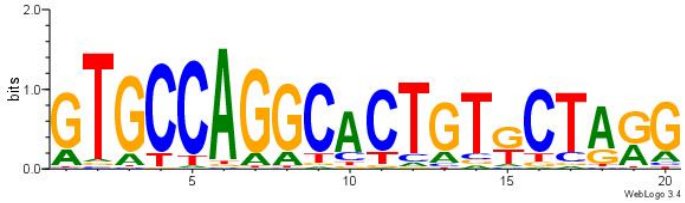

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

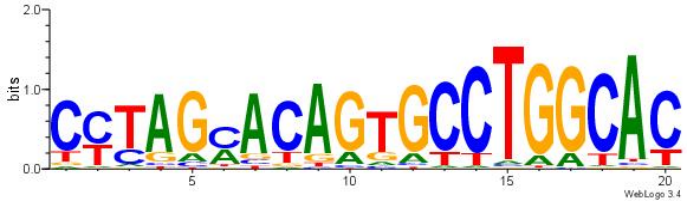

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.13851

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
-TGTGAAGAGACCACCAA--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

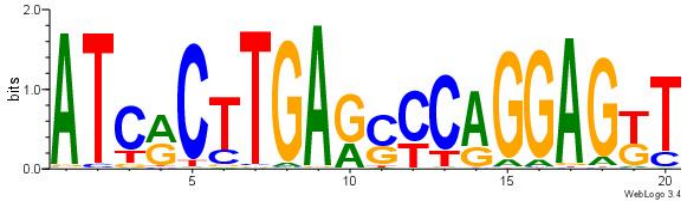

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

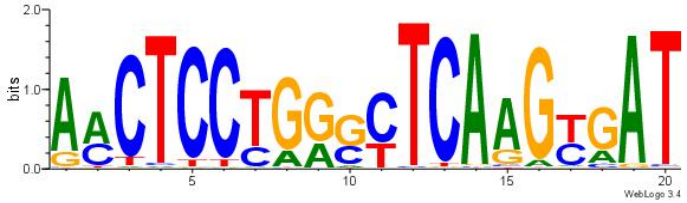

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.138573

Alignment:

```
TCAATGGGCTCCCAAATG
TTGGTGGTCTCTTCACA-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

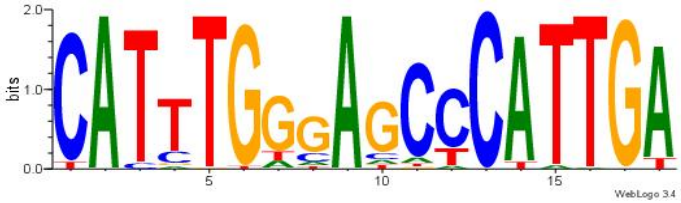

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

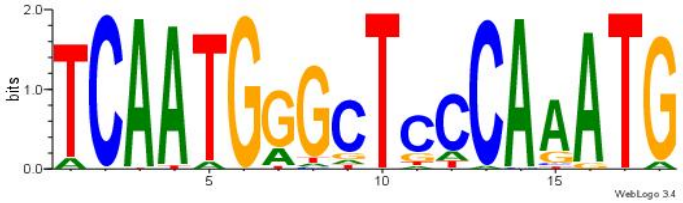

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.138811

Alignment:
GCTGGCCCGCAAGCGCCGCG
--TGTGAAGAGACCACCAA-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

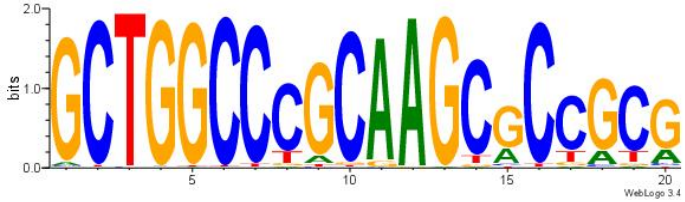

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

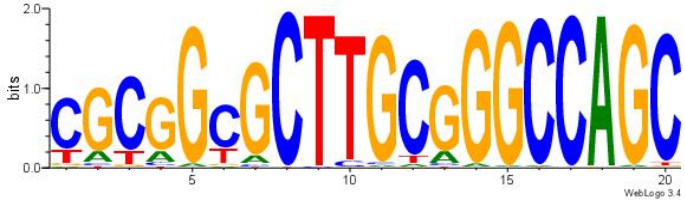

Dataset #: 1
Motif ID: 117
Motif name: Motif 117
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.138981

Alignment:
AACAACAACAACAAMAA
TGTGAAGAGACCACCAA

Original motif Consensus sequence: AACAACAACAACAAMAA

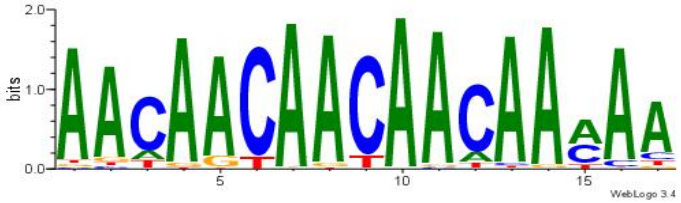

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

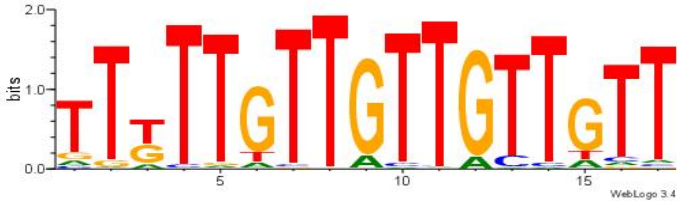

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.139424

Alignment:

```
AAGAGGTTTAATTGRCTCA
TTGGTGGTCTCTTCACA--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

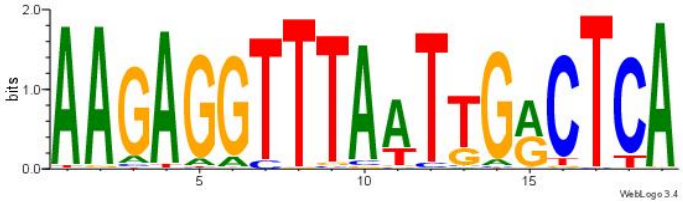

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

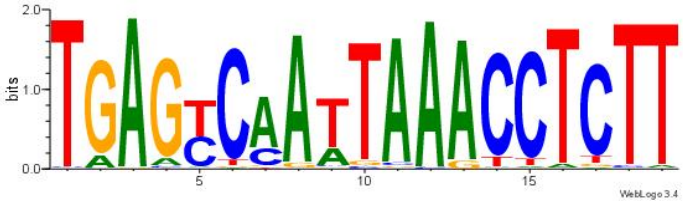

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.139486

Alignment:

```
GCTGTGTGACCTTGGGCAAG
--TGTGAAGAGACCACCAA-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

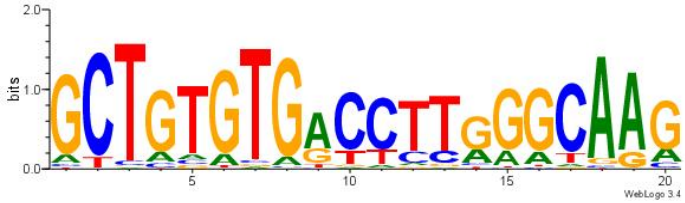

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

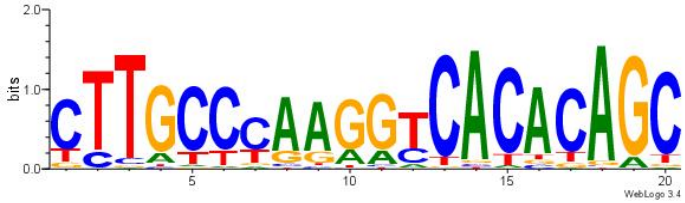

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.139783

Alignment:
ACAGGCTTTGTGTGAGCA
TTGGTGGTCTCTTCACA-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

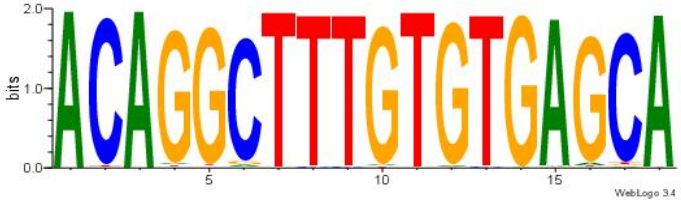

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

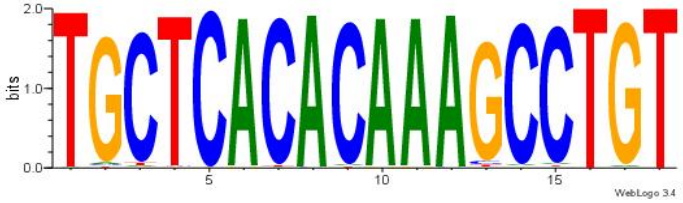

Dataset #: 1
Motif ID: 68
Motif name: Motif 68
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.140345

Alignment:
GACCTGCAGCCCGCCATG
-TGTGAAGAGACCACCAA

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

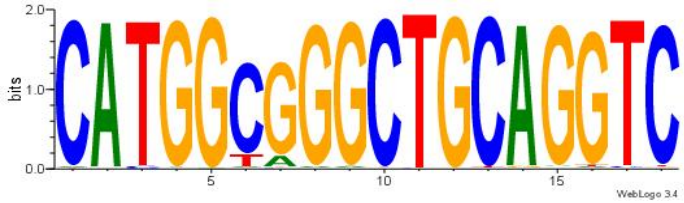

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

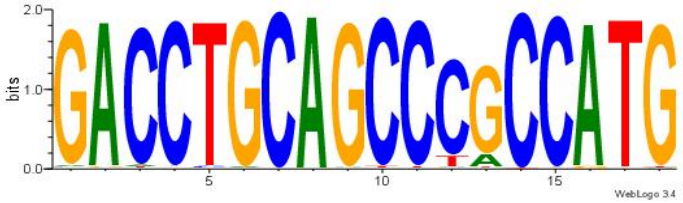

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.140367

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
TTGGTGGTCTCTTCACA---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

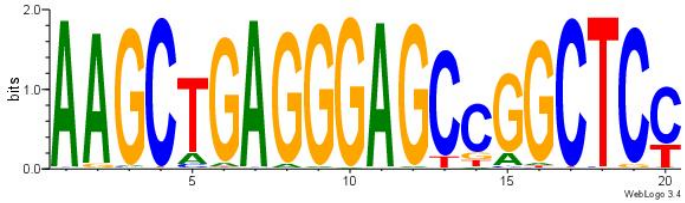

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

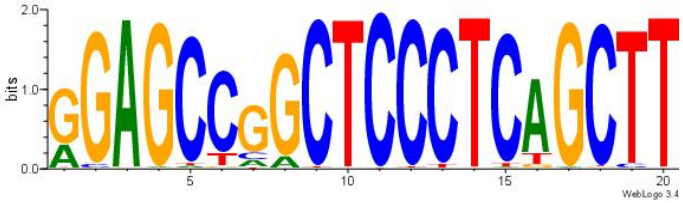

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.140519

Alignment:

```
GAAAGGGAACTCCCTGACCC
TTGGTGGTCTCTTCACA---
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

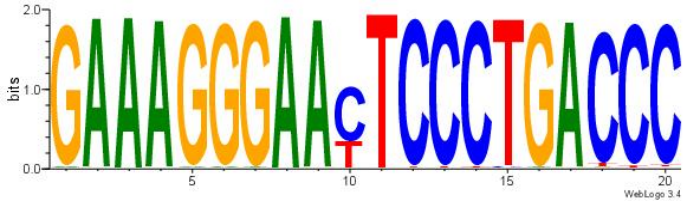

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

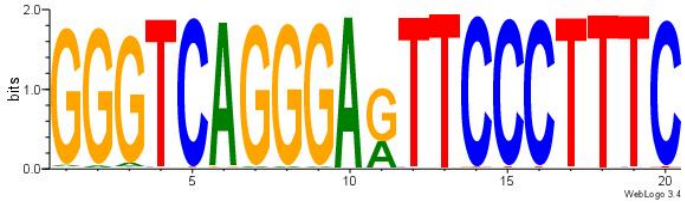

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.140746

Alignment:
GAATCCTGGGACAGCCTGT
-TGTGAAGAGACCACCAA-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

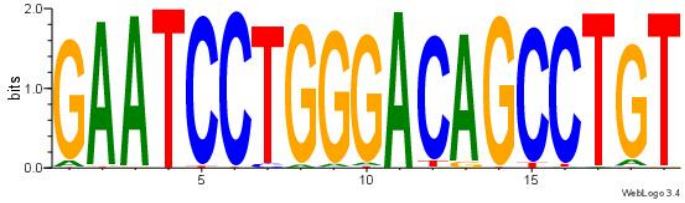

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

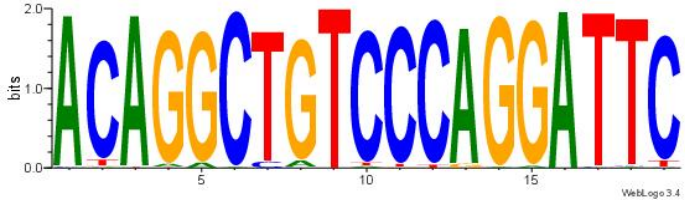

Dataset #: 1 Motif ID: 250 Motif name: Motif 250

Original motif Consensus sequence: CCACCGCTCC

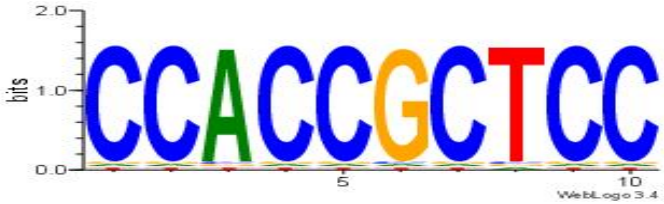

Reverse complement motif Consensus sequence: GGAGCGGTGG

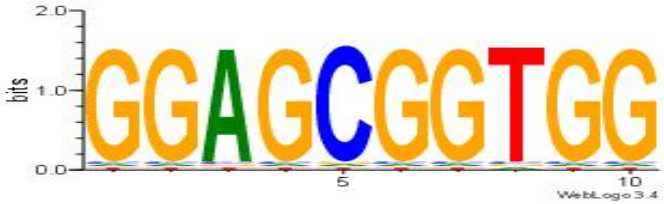

Best Matches for Motif ID 250 (Highest to Lowest)

Dataset #: 1
Motif ID: 107
Motif name: Motif 107
Matching format of first motif: Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.03718

Alignment:

```
GGMGCKGTGGCTC
GGAGCGGTGG---
```

Original motif Consensus sequence: GAGCCACYGCRCC

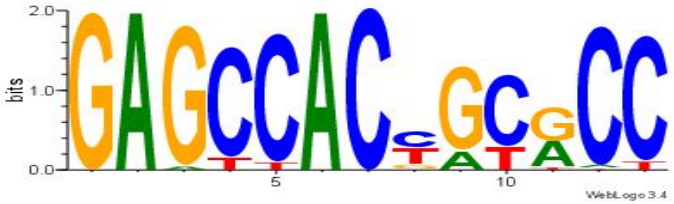

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0459856

Alignment:

CRTGAGCCACYGYRCCYGGC
------CCACCGCTCC----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

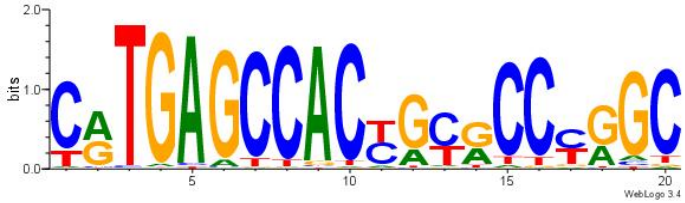

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

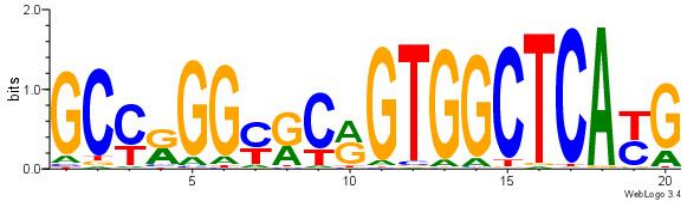

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0478436

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGAGCGGTGG----------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

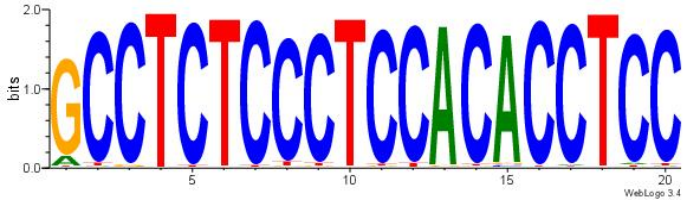

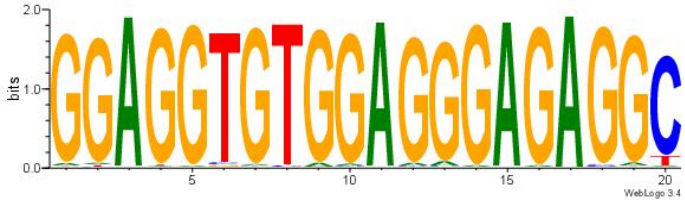

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0491967

Alignment:

```
ATTAGCYRGGCRTGGTGGC
-GGAGCGGTGG--------
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

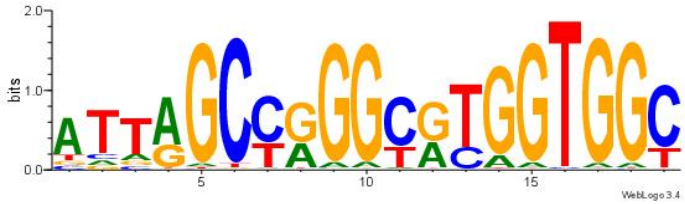

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

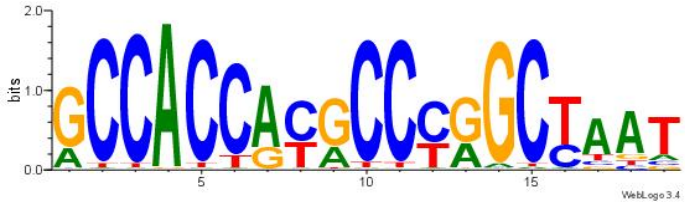

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0519556

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-------GGAGCGGTGG---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

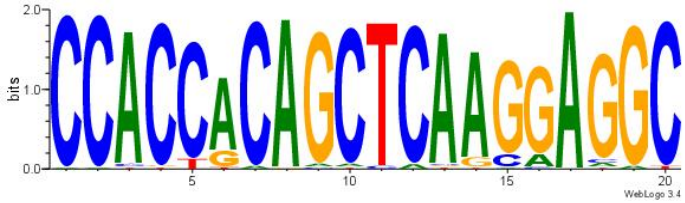

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

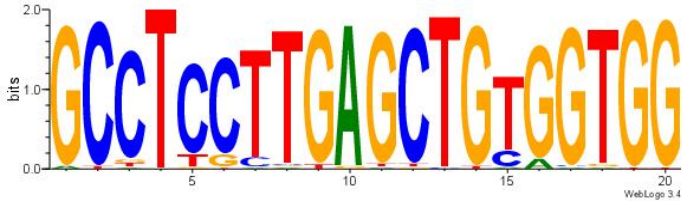

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0687281

Alignment:
TAMGACCTCAGGTCCTCAG
-----CCACCGCTCC----

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

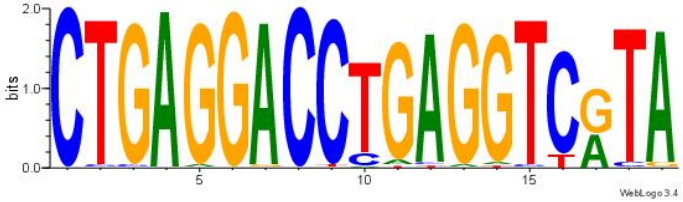

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

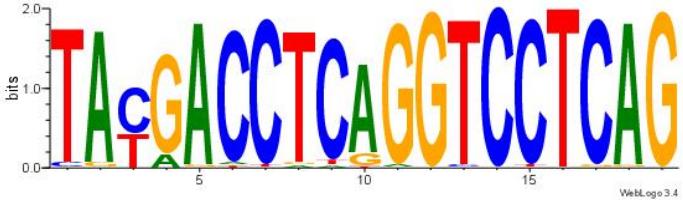

Dataset #: 1
Motif ID: 263
Motif name: Motif 263
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0702895

Alignment:
GGCAGAGCTGGG
-GGAGCGGTGG-

Original motif Consensus sequence: CCCAGCTCTGCC

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

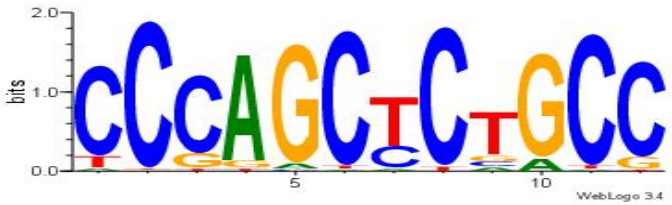

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0719777

Alignment:

```
TCKMGCCACTGCACTCCAGC
-----CCACCGCTCC-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

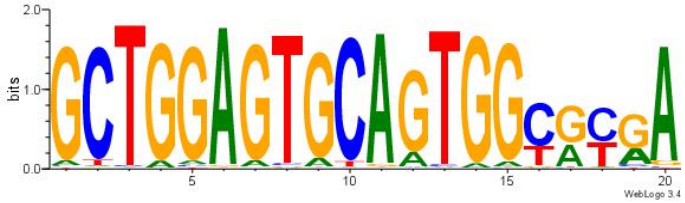

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

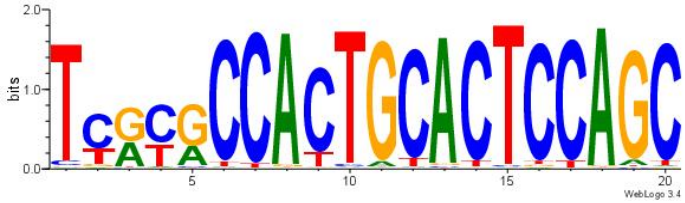

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0721188

Alignment:

```
AGAGCTCTGGCTGGCATCT
GGAGCGGTGG---------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

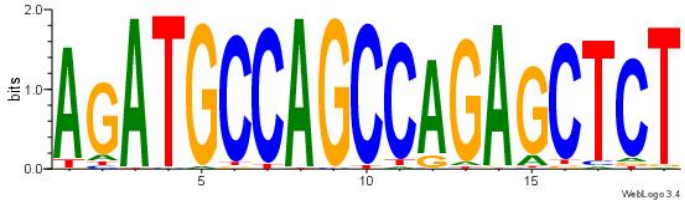

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

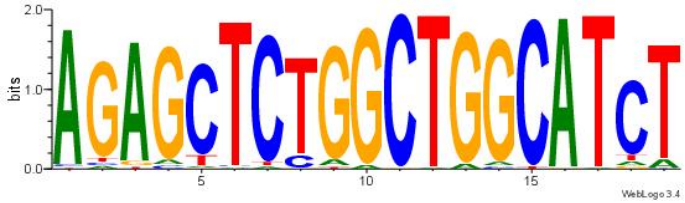

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0723181

Alignment:
ATCCATCCATCCATCCA
------CCACCGCTCC-

Original motif Consensus sequence: ATCCATCCATCCATCCA

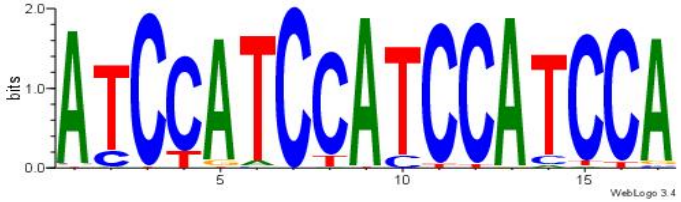

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 101
Motif name: Motif 101
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0727994

Alignment:
GCGGCGGCGGCG
GGAGCGGTGG--

Original motif Consensus sequence: CGCCGCCGCCGC

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

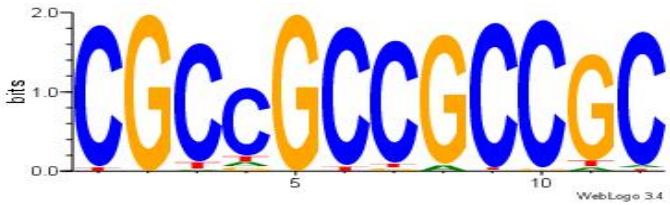

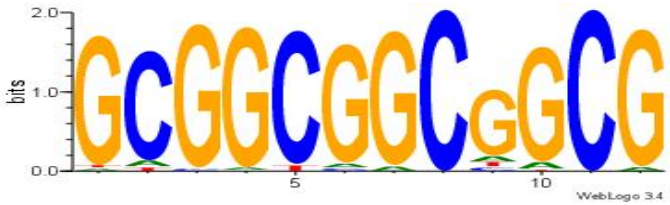

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0729973

Alignment:

```
ACTGTCTTCCACCTCCACAT
--------CCACCGCTCC--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

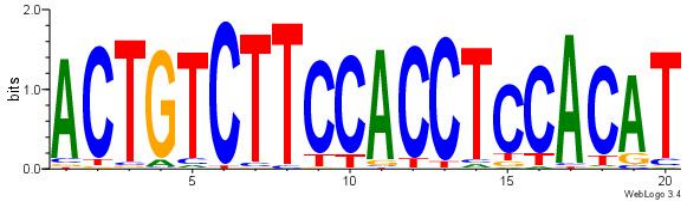

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

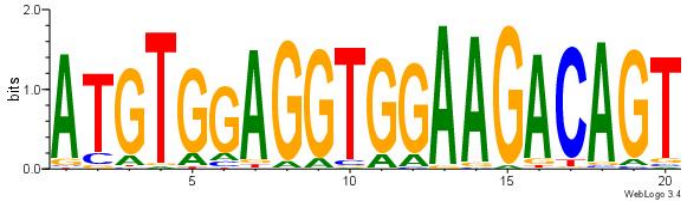

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0735798

Alignment:

```
GTAGACKGGAGCTGTTCCT
-------GGAGCGGTGG--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

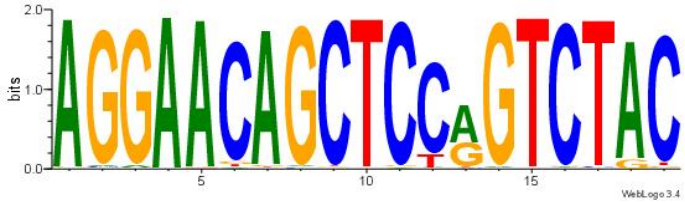

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

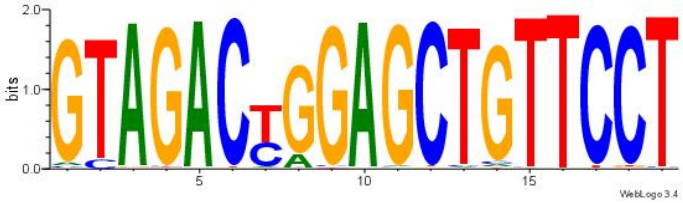

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0741311

Alignment:
GGGGGCTGACCCCCCCACC
---------CCACCGCTCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

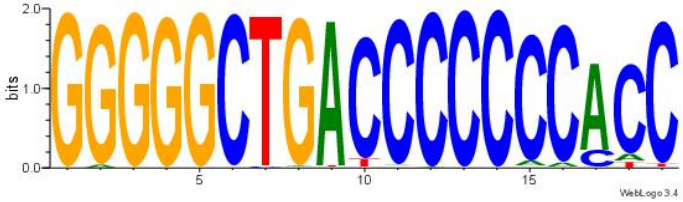

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

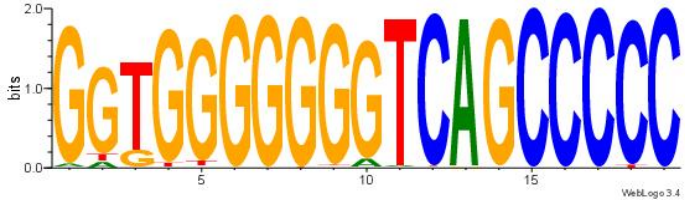

Dataset #: 1
Motif ID: 358
Motif name: Motif 358
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.0746014

Alignment:
CGTCCATCACCCC
---CCACCGCTCC

Original motif Consensus sequence: CGTCCATCACCCC

Reverse complement motif Consensus sequence: GGGGTGATGGACC

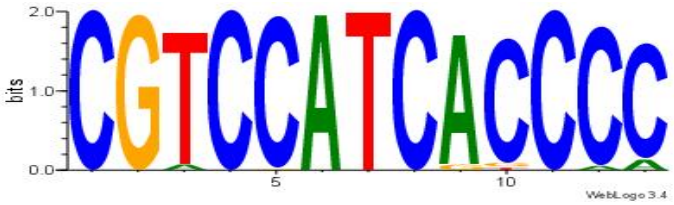

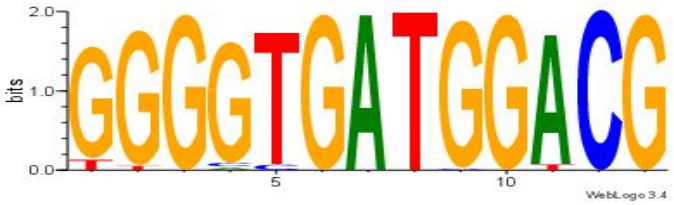

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0766052

Alignment:

```
GGCTGCGGAGGGTGTA
-----GGAGCGGTGG-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

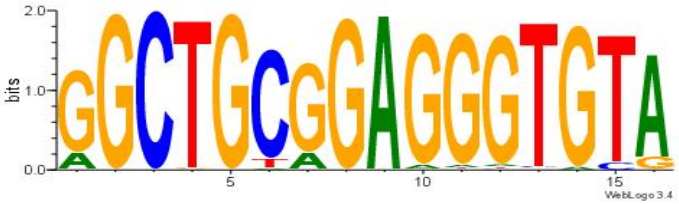

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

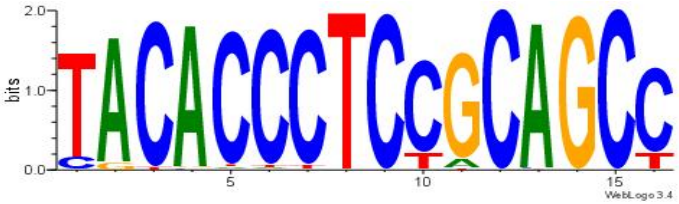

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.078282

Alignment:

```
TTGGTAGGATCCGTGATGCC
------GGAGCGGTGG----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

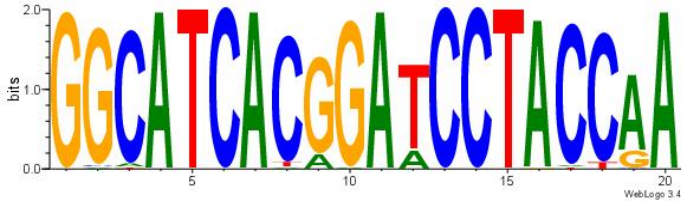

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

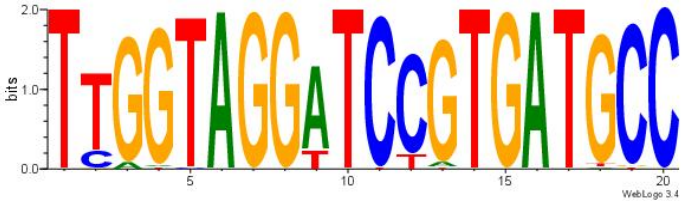

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0787184

Alignment:
GGGRSCACAGGAGCD
-GGAGCGGTGG----

Original motif Consensus sequence: HGCTCCTGTGSKCCC

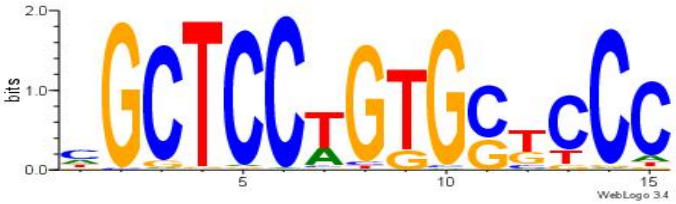

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

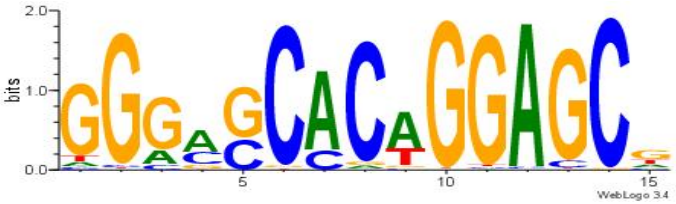

Dataset #: 1
Motif ID: 301
Motif name: Motif 301
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.0789731

Alignment:
GTCTGGMGTCTTGG
----GGAGCGGTGG

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

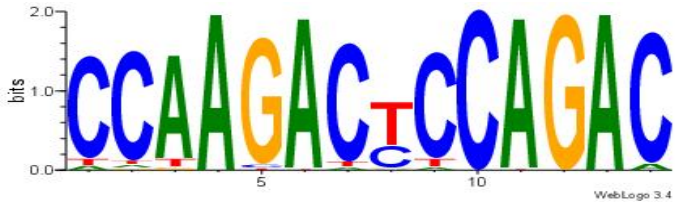

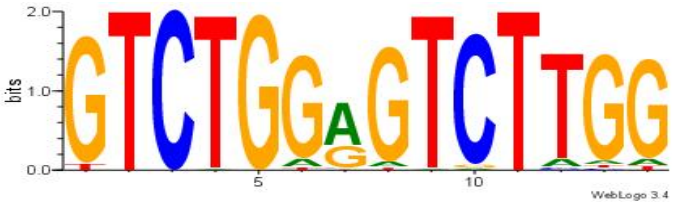

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0800633

Alignment:

```
GCGMGCGGGAACCGGGGCT
-------GGAGCGGTGG--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

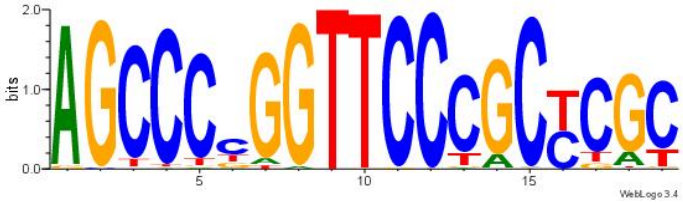

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

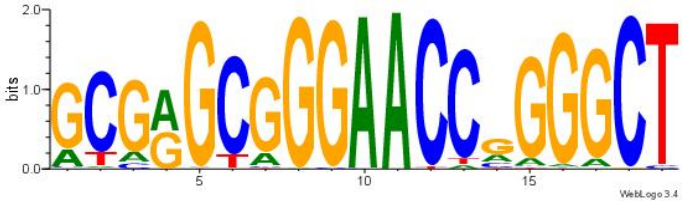

Dataset #: 1

Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0809439

Alignment:

```
TGCACTGCACCCAC
-CCACCGCTCC---
```

Original motif Consensus sequence: TGCACTGCACCCAC

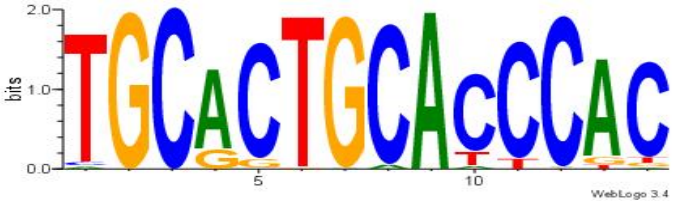

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

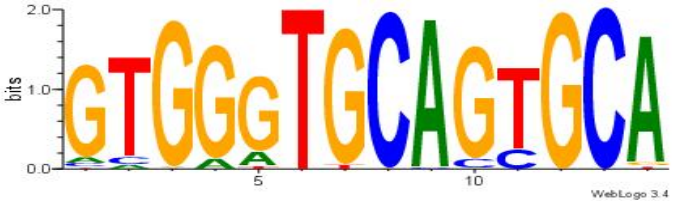

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0813783

Alignment:
HAGTGGKATTGCTGGATCAT
-----GGAGCGGTGG-----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

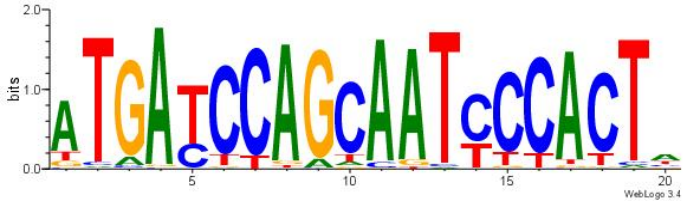

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

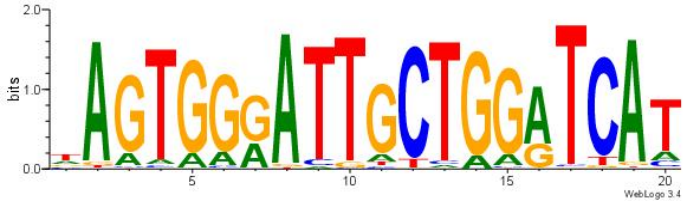

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0833106

Alignment:
KGGGCDGAGGGGCTCCT
GGAGCGGTGG-------

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

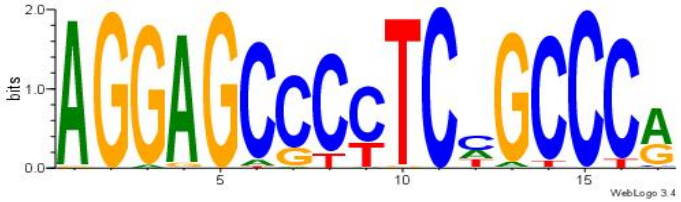

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0833715

Alignment:

```
GCCRGCCCTGCYGGCC
-CCACCGCTCC-----
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

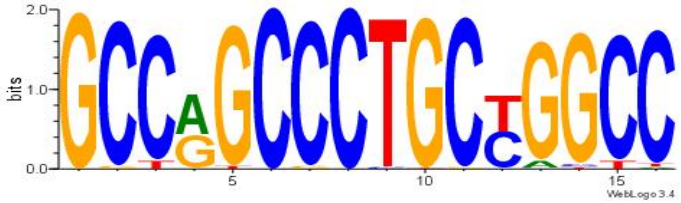

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

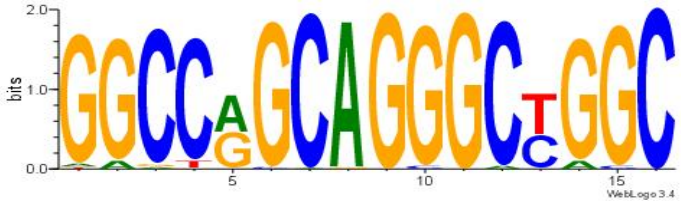

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0835096

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-CCACCGCTCC---------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

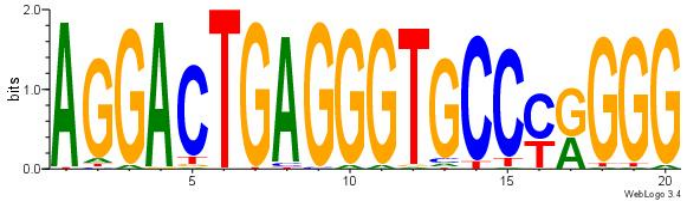

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

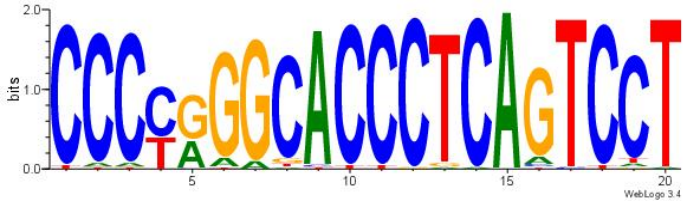

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0869818

Alignment:
GCCGGGRAGAGGCGCTCCT
-----GGAGCGGTGG----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

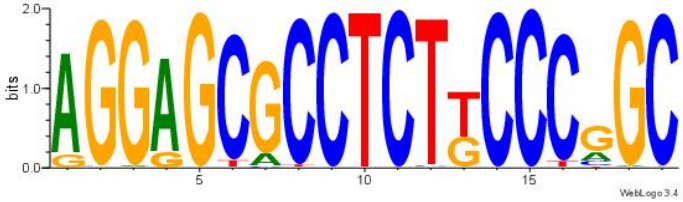

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

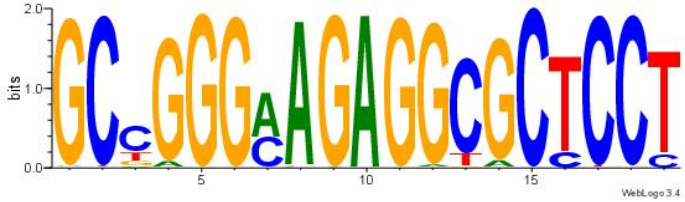

Dataset #: 1
Motif ID: 266
Motif name: Motif 266
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0870135

Alignment:
GCAGCAGCAGCA
GGAGCGGTGG--

Original motif Consensus sequence: GCAGCAGCAGCA

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

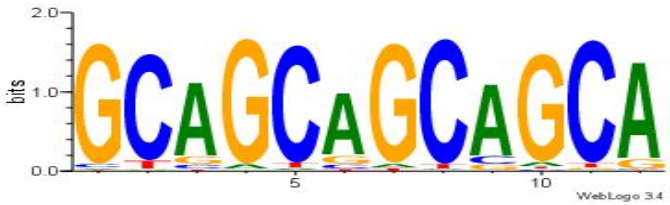

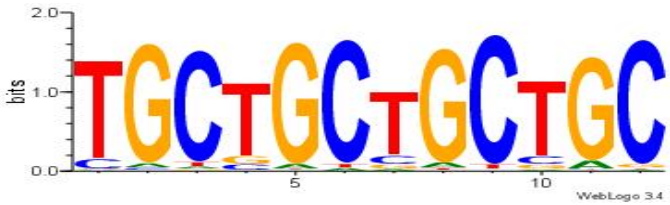

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0873082

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
---------CCACCGCTCC-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

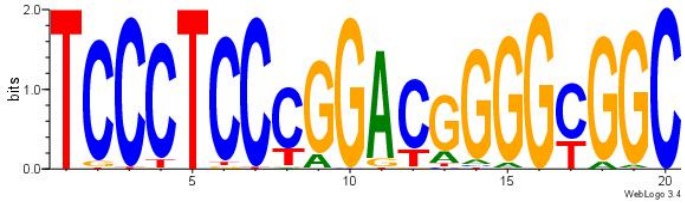

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

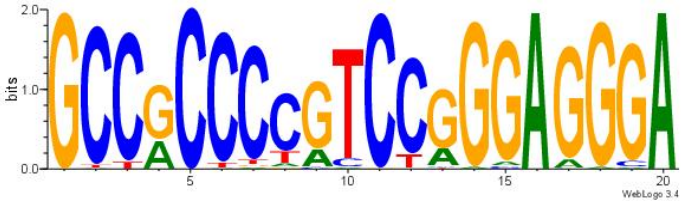

Dataset #: 1

Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0874448

Alignment:

```
CCCCWCCCCCA
CCACCGCTCC-
```

Original motif Consensus sequence: CCCCWCCCCCA

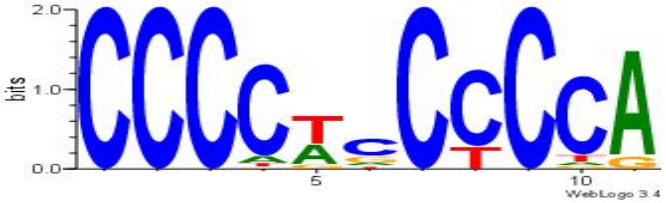

Reverse complement motif Consensus sequence: TGGGGGWGGGG

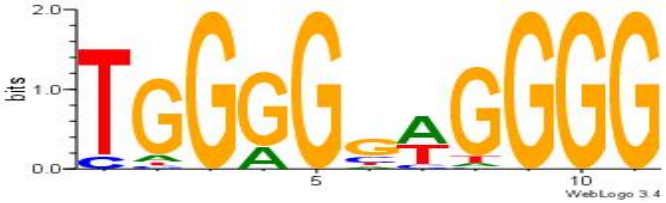

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0882487

Alignment:
GGGTGCAGGMGGGCTGAGT
-------GGAGCGGTGG--

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

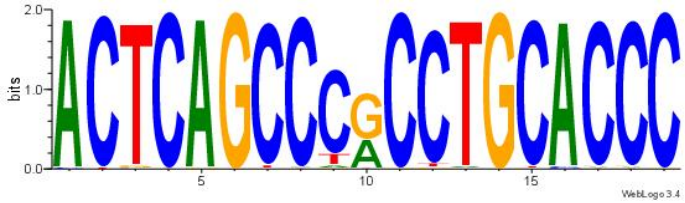

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

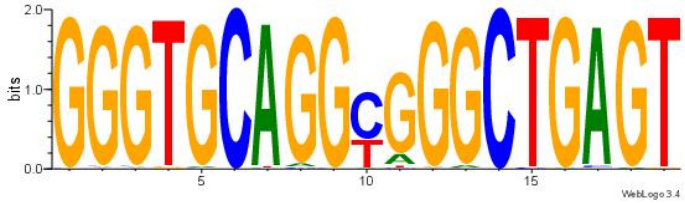

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0894933

Alignment:
GKGGCAGTGAGGC
GGAGCGGTGG---

Original motif Consensus sequence: GCCTCACTGCCRC

Reverse complement motif Consensus sequence: GKGGCAGTGAGG

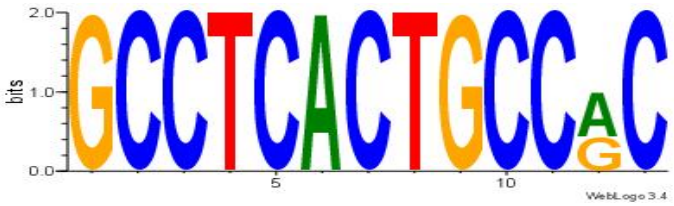

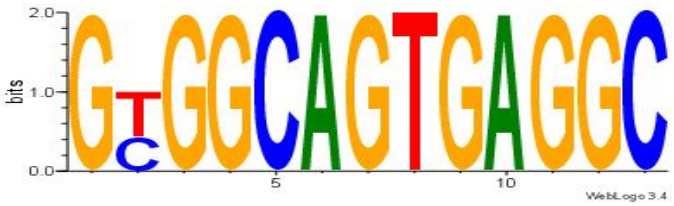

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0895293

Alignment:

```
GAGACTCCGTGGGCGT
--GGAGCGGTGG----
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

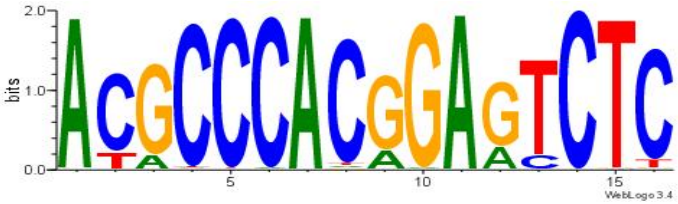

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

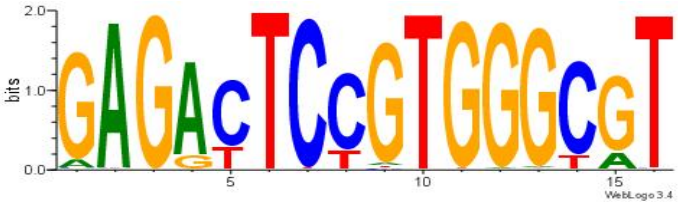

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0907983

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-------GGAGCGGTGG---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

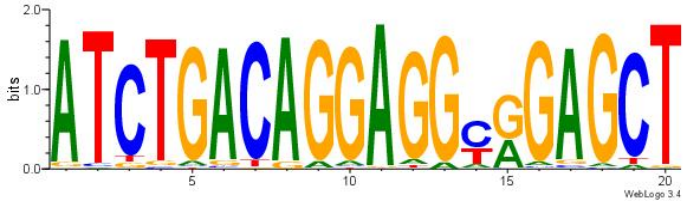

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

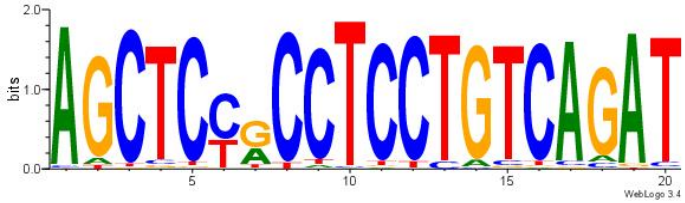

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0913111

Alignment:
TCCAAATGGGAGAAATTGGC
--GGAGCGGTGG--------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

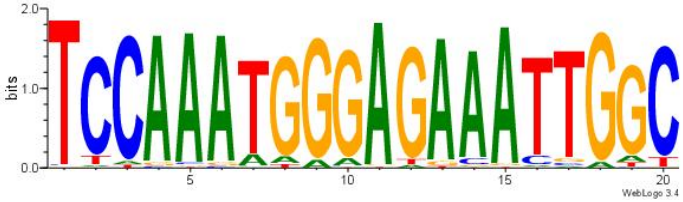

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

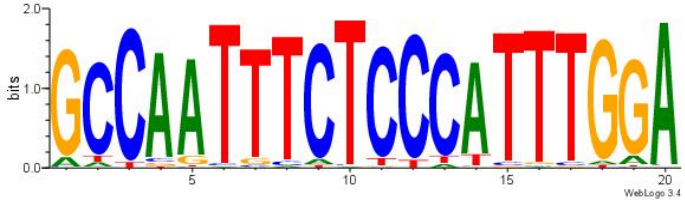

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0914686

Alignment:
GTCCCATCGACCACCCAAG
-------CCACCGCTCC--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

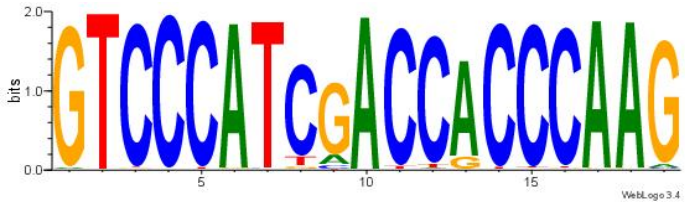

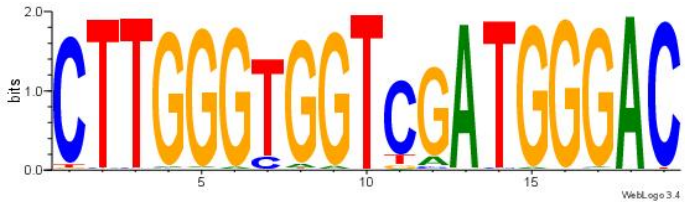

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0916242

Alignment:

```
GGAGGCKGAGG
-GGAGCGGTGG
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	65

Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0916339

Alignment:

```
AGAAATCGAGCRCAGCGCCG
---------CCACCGCTCC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

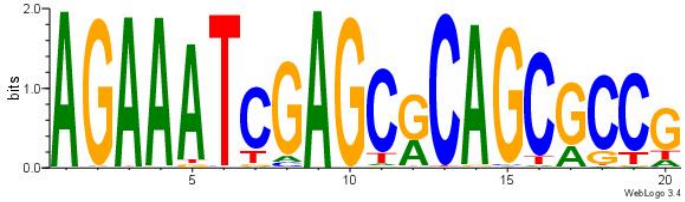

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

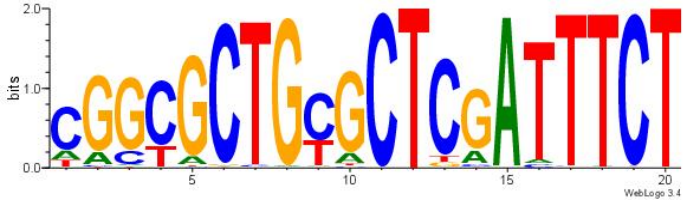

Dataset #:	1
Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0922543

Alignment:
CCCCAACCCC
CCACCGCTCC

Original motif Consensus sequence: CCCCAACCCC

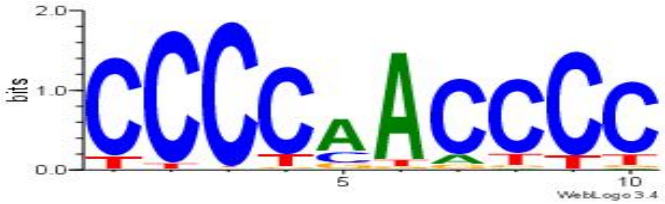

Reverse complement motif Consensus sequence: GGGGTTGGGG

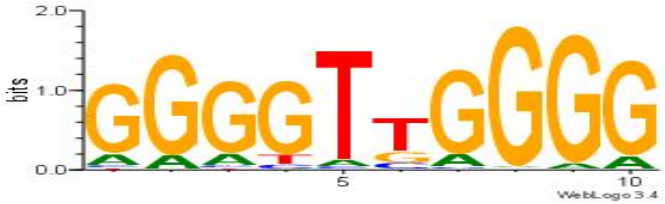

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0927105

Alignment:
ACCKTCGCGGTGAGTGTTAC
---GGAGCGGTGG-------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

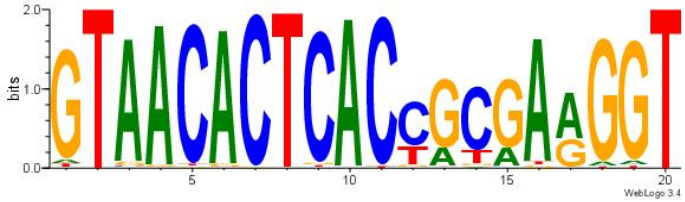

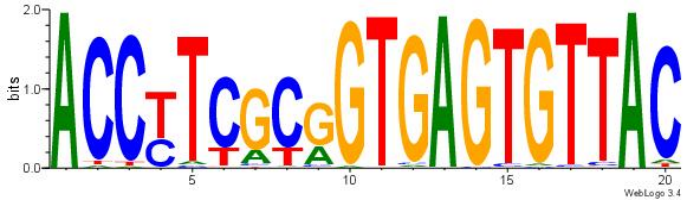

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0927651

Alignment:

```
GTGTCCCCTTCCTCCC
-CCACCGCTCC-----
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

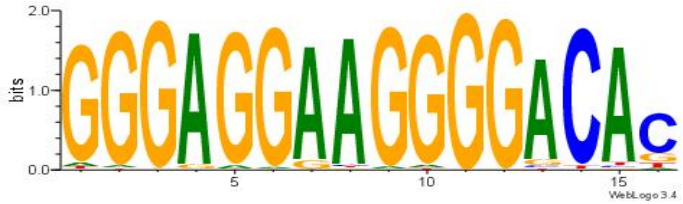

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

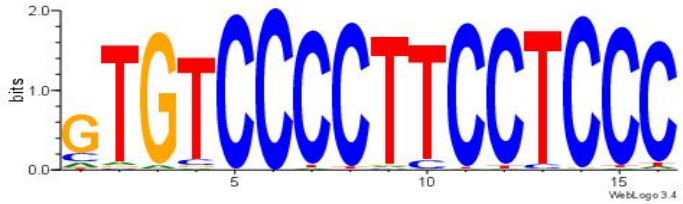

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0928501

Alignment:

```
AAAAGTCCACAGTCCAAAGT
------CCACCGCTCC----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

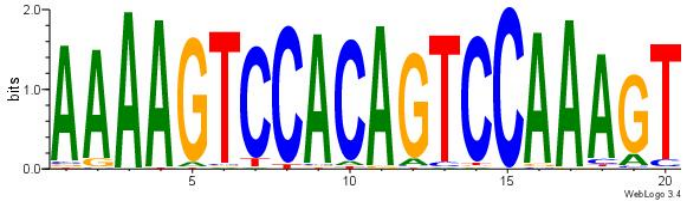

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

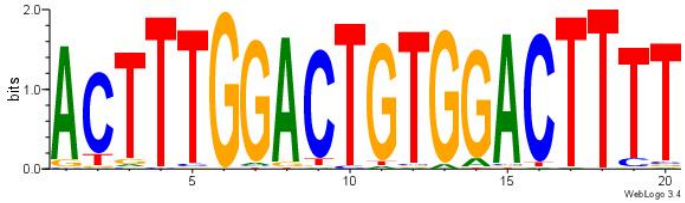

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0929482

Alignment:
GGACGCCATGG
-GGAGCGGTGG

Original motif Consensus sequence: CCATGGCGTCC

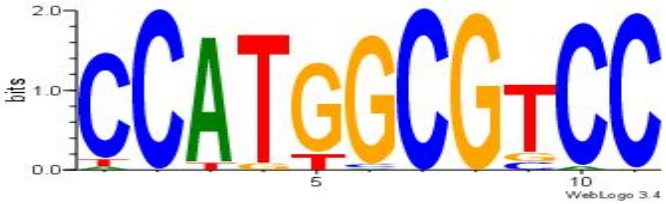

Reverse complement motif Consensus sequence: GGACGCCATGG

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0931328

Alignment:
TCTGGAGTGGACCTCCAGCA
---GGAGCGGTGG-------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

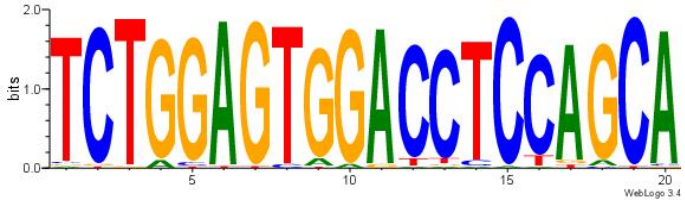

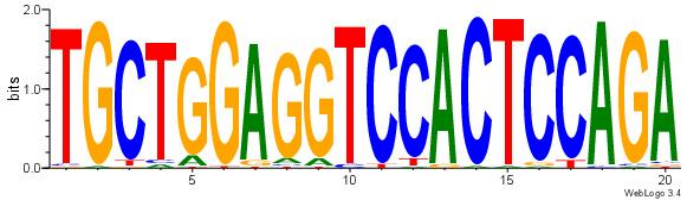

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0933006

Alignment:

```
TGGACCTGAGAGC
-GGAGCGGTGG--
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

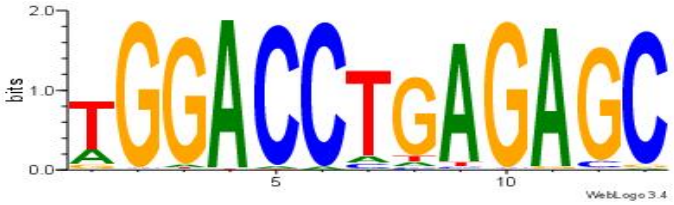

Dataset #:	1
Motif ID:	47

Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0938442

Alignment:

```
MGGAAACTGAGGC
--GGAGCGGTGG-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

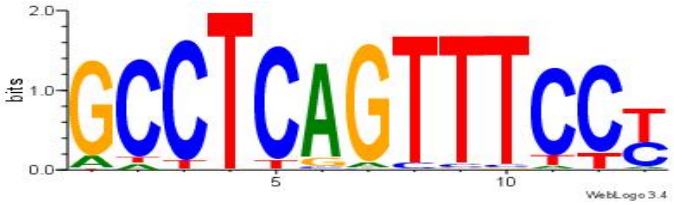

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

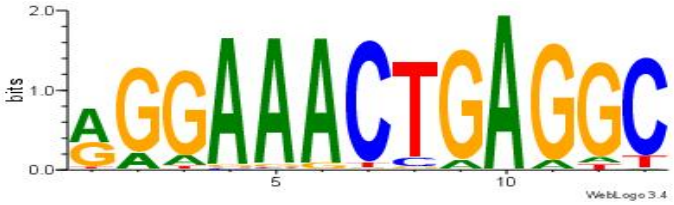

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0938581

Alignment:
CCCAAATCTCATSTTGAAT
-CCACCGCTCC--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

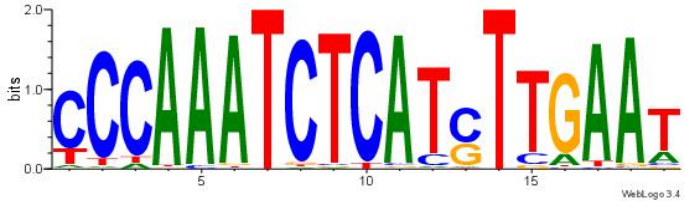

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

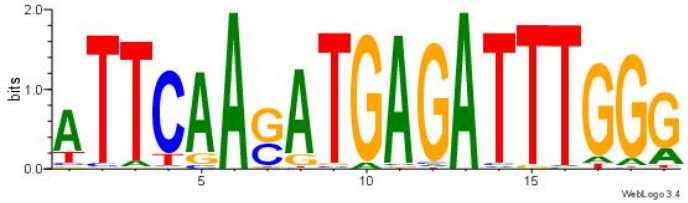

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0940351

Alignment:
CACTGCACTCCAGC
-CCACCGCTCC---

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

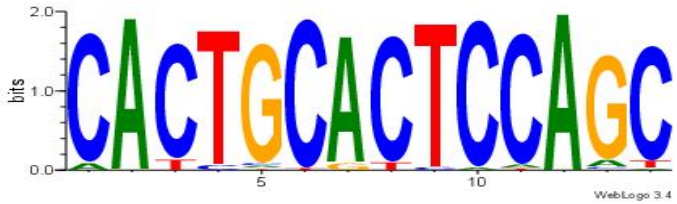

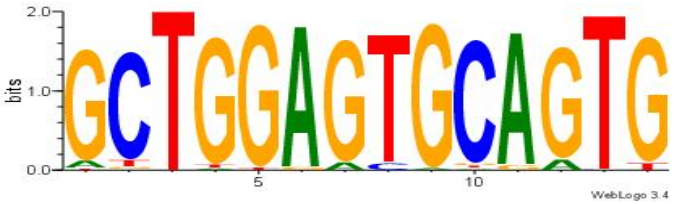

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0942155

Alignment:

```
TGTAKTCCCAGCTAC
CCACCGCTCC-----
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

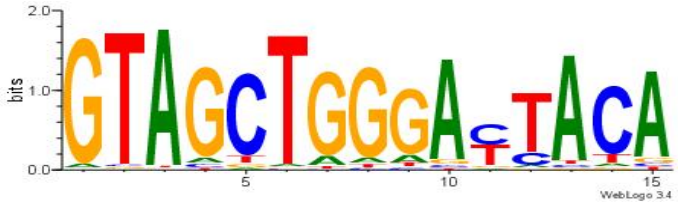

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

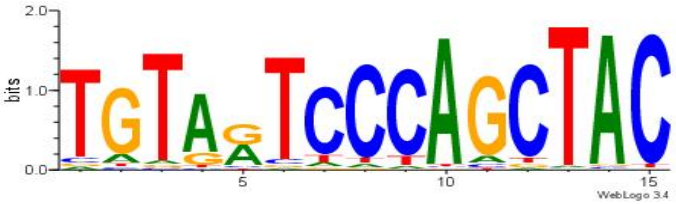

Dataset #:	1
Motif ID:	96

Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.09442

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
--------CCACCGCTCC--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

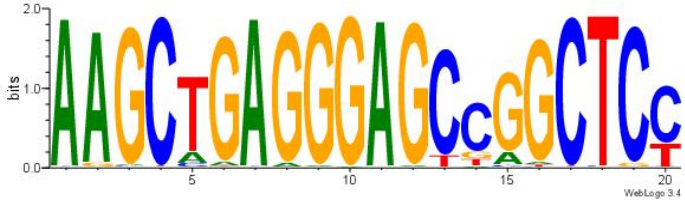

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

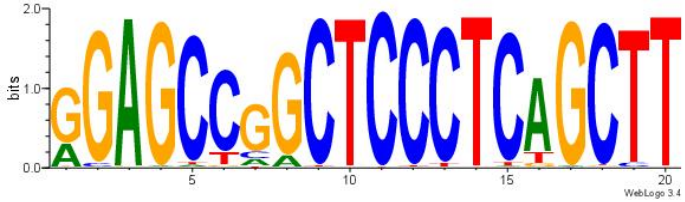

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0947083

Alignment:
CCCTCACTGCCCGGGG
CCACCGCTCC------

Original motif Consensus sequence: CCCTCACTGCCCGGGG

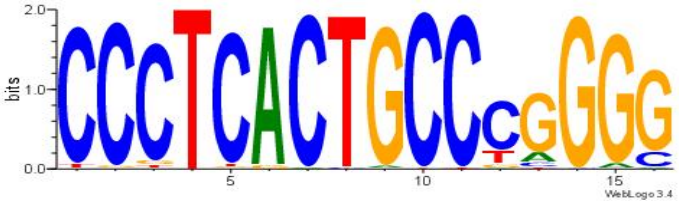

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

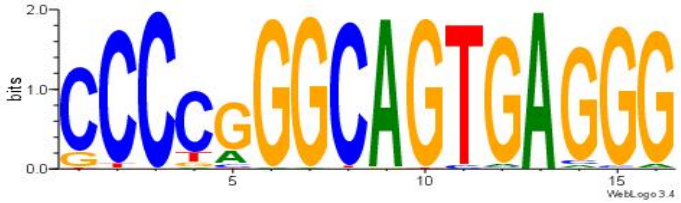

Dataset #: 1 Motif ID: 251 Motif name: Motif 251

Original motif Consensus sequence: CAGGCTGGTCTCG

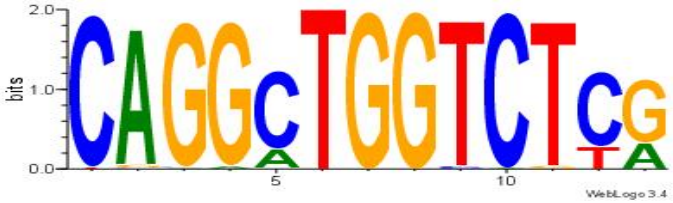

Reverse complement motif Consensus sequence: CGAGACCAGCCTG

Best Matches for Motif ID 251 (Highest to Lowest)

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 1
Number of overlap: 13
Similarity score: 0.0730434

Alignment:
AGATGCCAGCCAGAGCTCT
CGAGACCAGCCTG------

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

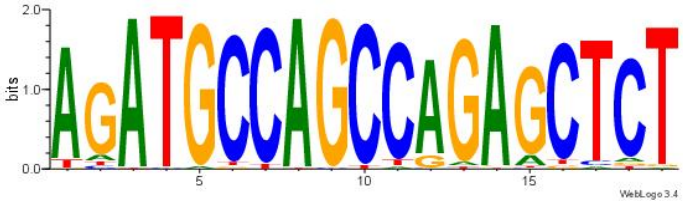

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

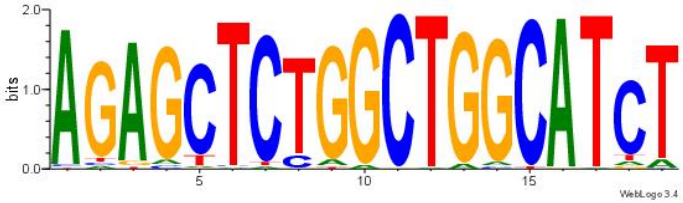

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0761402

Alignment:
ACAGGCTGTCCCAGGATTC
-----CAGGCTGGTCTCG-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

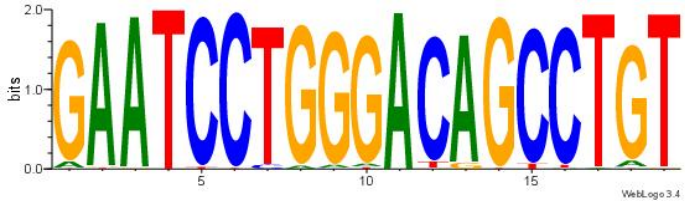

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

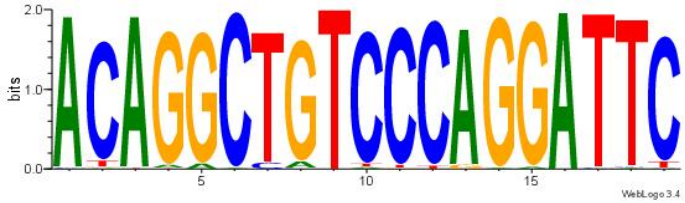

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0811019

Alignment:

```
CGAGCCCTGCCCCGCGG
----CGAGACCAGCCTG
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

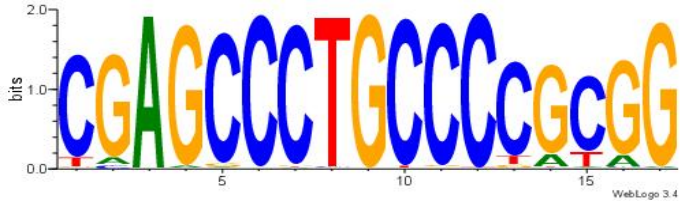

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

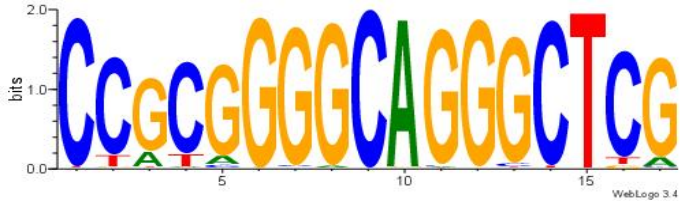

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0865311

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
-CGAGACCAGCCTG------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

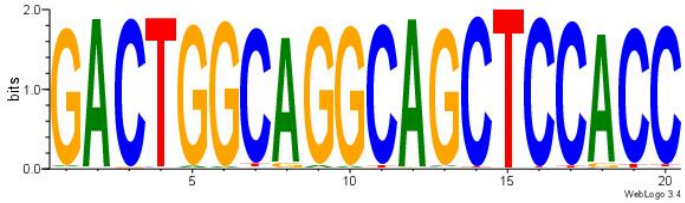

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

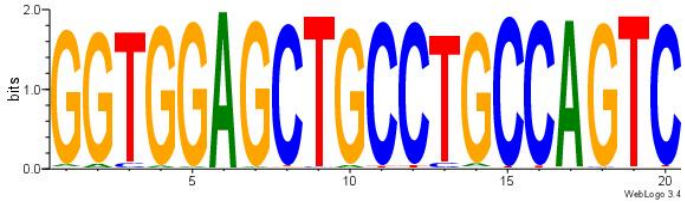

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.0910885

Alignment:
CTTTCTGGGCTGGCCAAGG
-CAGGCTGGTCTCG-----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

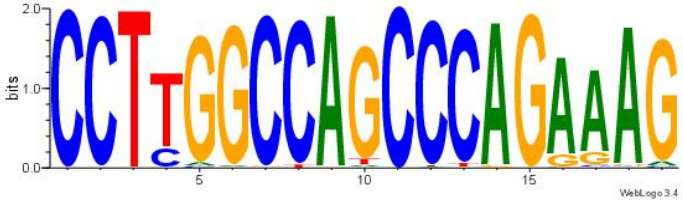

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

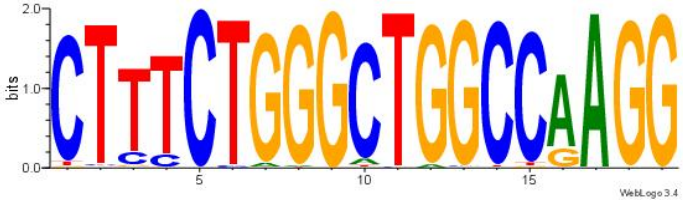

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0911206

Alignment:
MGAAGGGACTTGCCTTGT
---CGAGACCAGCCTG--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

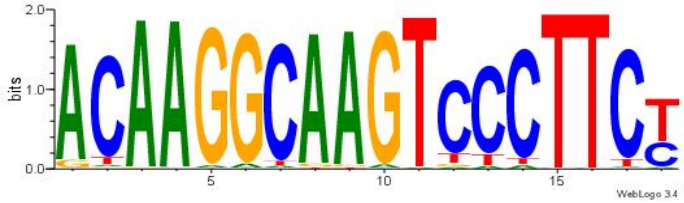

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

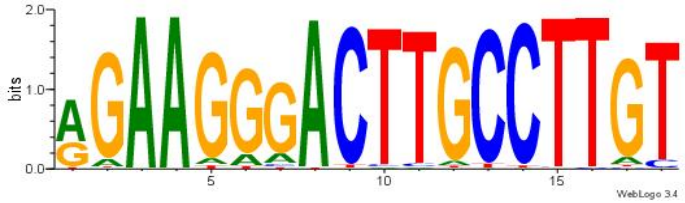

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0918374

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-CAGGCTGGTCTCG-----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

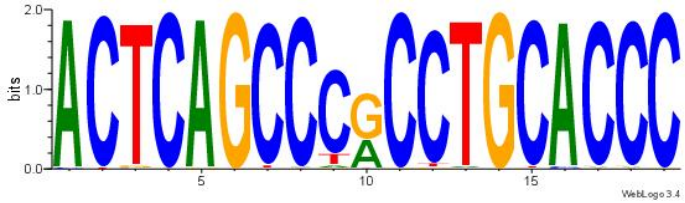

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

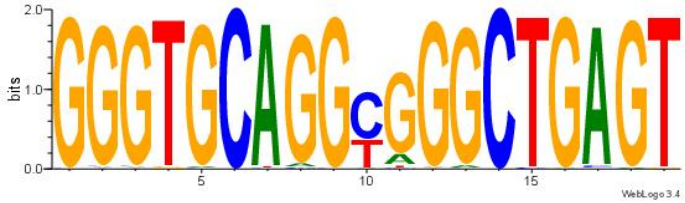

Dataset #:	1
Motif ID:	212
Motif name:	Motif 212
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0920438

Alignment:
MTTGACTACCCTA
CGAGACCAGCCTG

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

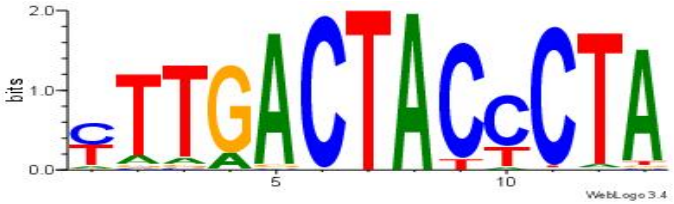

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.092187

Alignment:
MTCCTCCAGACCCCAGAATG
-------CGAGACCAGCCTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

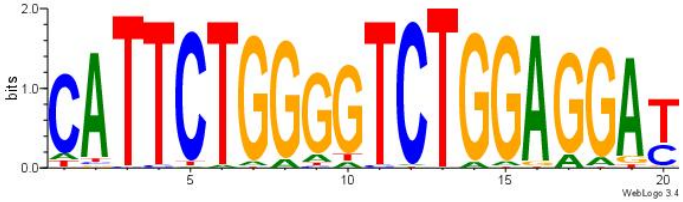

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

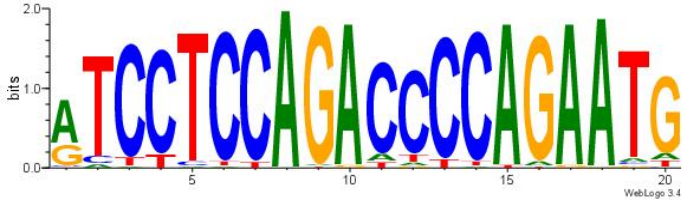

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0922286

Alignment:
CGTCGCTCACGCTGGGAGCT
CAGGCTGGTCTCG-------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

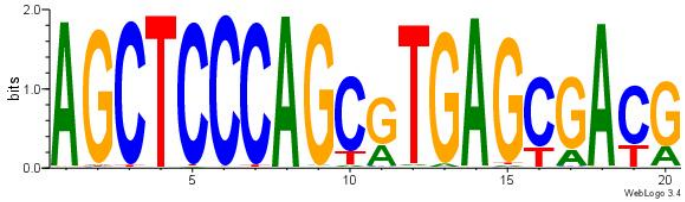

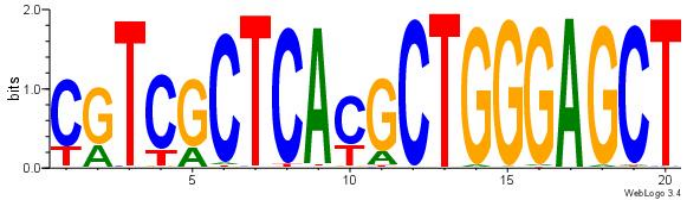

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.092299

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
---CAGGCTGGTCTCG----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

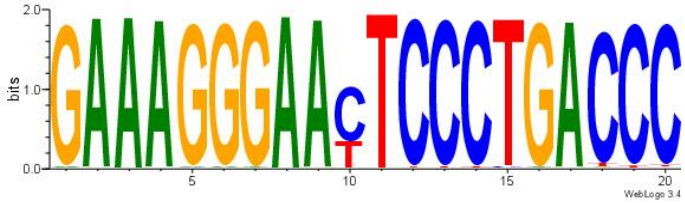

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

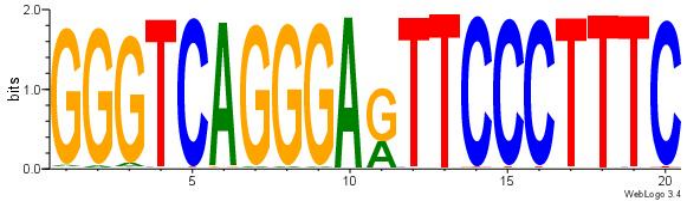

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0923343

Alignment:

```
CCCACGCCCACCCGGAACT
--CGAGACCAGCCTG----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

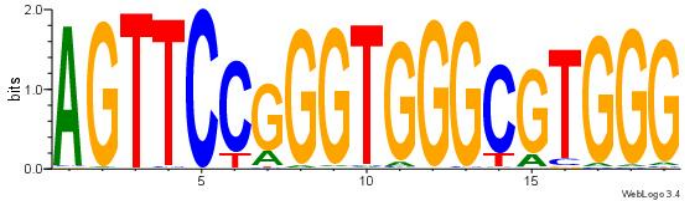

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

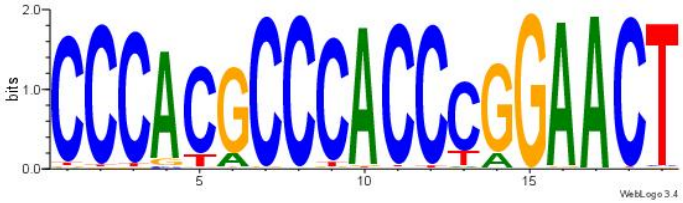

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.092986

Alignment:
CGCCCGGCCAGCCGC
CGAGACCAGCCTG--

Original motif Consensus sequence: CGCCCGGCCAGCCGC

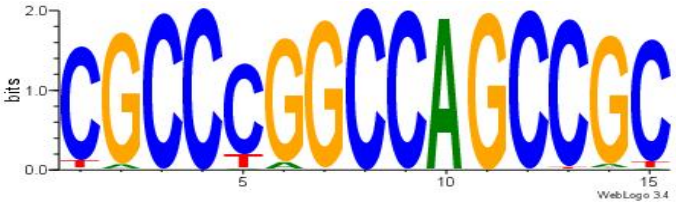

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

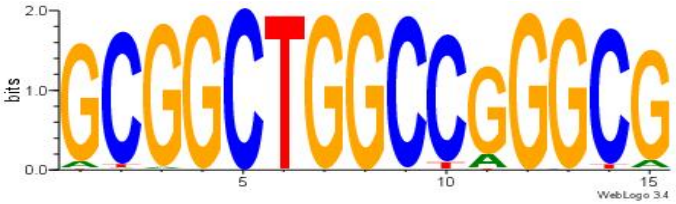

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0936475

Alignment:
AGTGAGAACATRYRRTRTTT
-----CGAGACCAGCCTG--

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

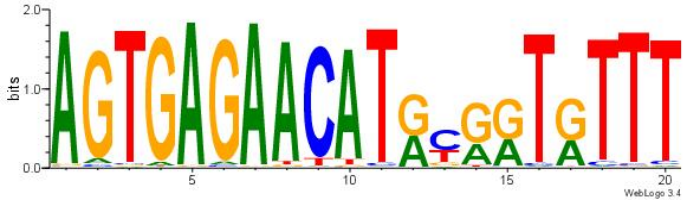

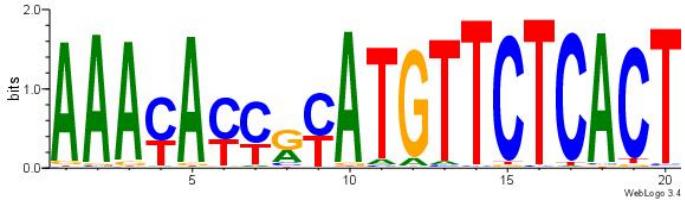

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0938263

Alignment:

```
GGCCMGCAGGGCKGGC
-CAGGCTGGTCTCG--
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

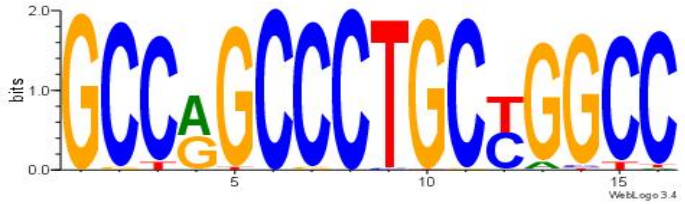

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

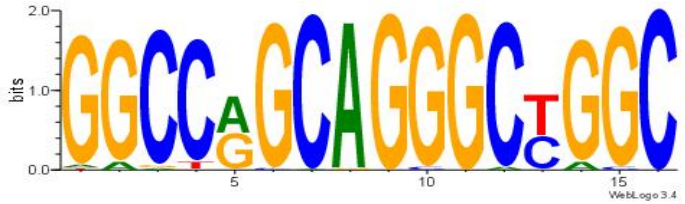

Dataset #:	1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.09396

Alignment:

```
GTTGGCCAGGCTGGTCT
CGAGACCAGCCTG----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

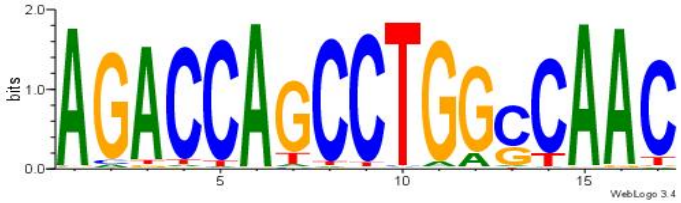

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

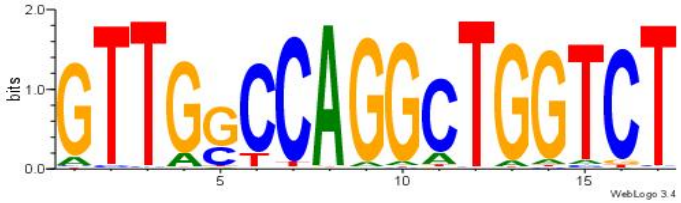

Dataset #:	1
Motif ID:	222
Motif name:	Motif 222
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.0964653

Alignment:
CGAGATCACGCCA
CGAGACCAGCCTG

Original motif Consensus sequence: CGAGATCACGCCA

Reverse complement motif Consensus sequence: TGGCGTGATCTCG

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.096869

Alignment:
CCCATGCAAGTCYRAAATCC
--CAGGCTGGTCTCG-----

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

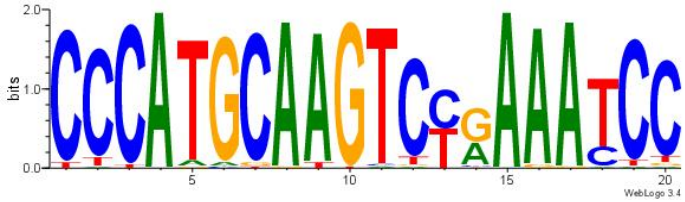

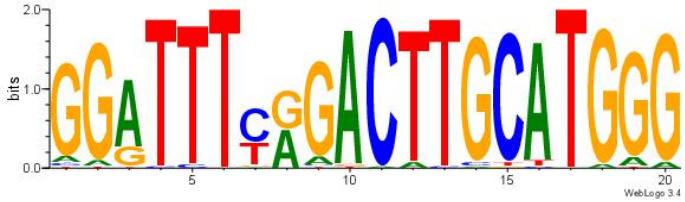

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0975747

Alignment:

```
CCCTACTGTTCTCY
-CAGGCTGGTCTCG
```

Original motif Consensus sequence: CCCTACTGTTCTCY

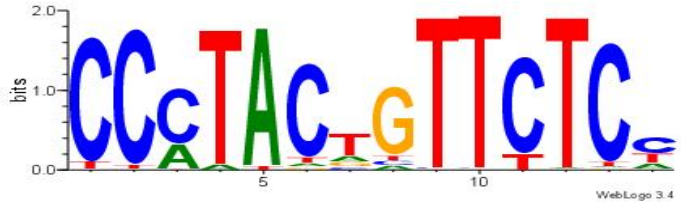

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	65

Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0979458

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-CGAGACCAGCCTG------
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

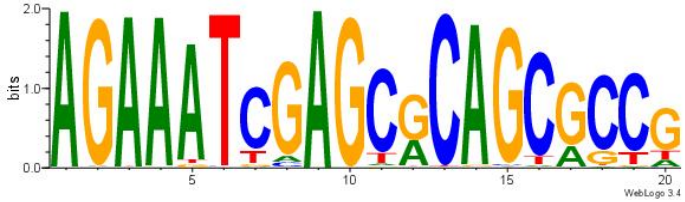

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

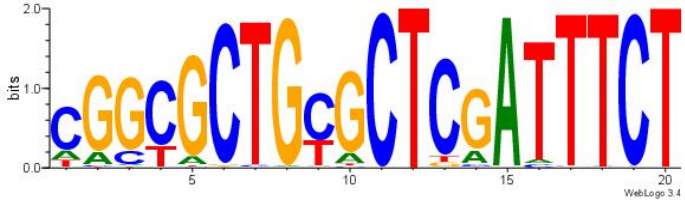

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0991029

Alignment:
CAGCCAGATCRSCC
CAGGCTGGTCTCG-

Original motif Consensus sequence: CAGCCAGATCRSCC

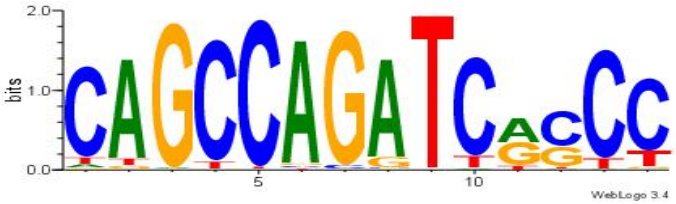

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

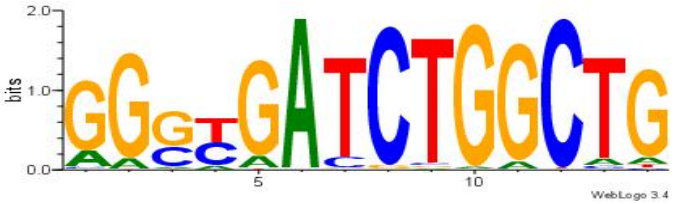

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.100654

Alignment:
ACCGAGMKMGCAGCTTCGGG
----CGAGACCAGCCTG---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

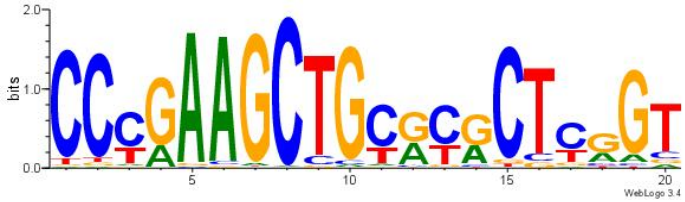

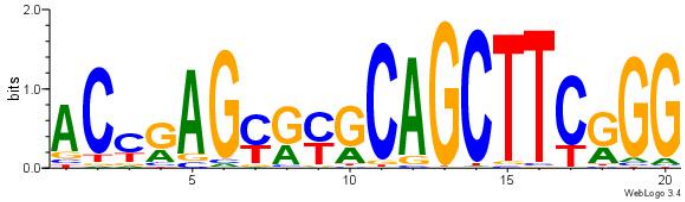

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.101802

Alignment:

```
KKCACCTTGATCTTGGACTT
-----CAGGCTGGTCTCG--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

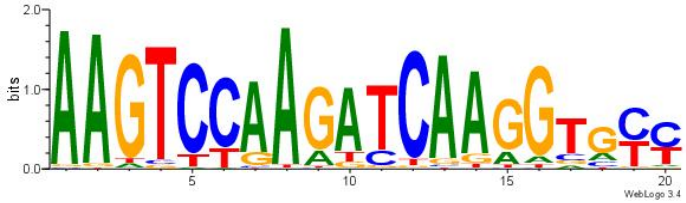

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

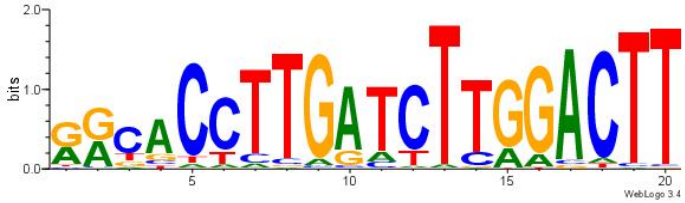

Dataset #: 1

Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.102276

Alignment:

```
AGTGTTTCCAAMCTGCT
--CGAGACCAGCCTG--
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

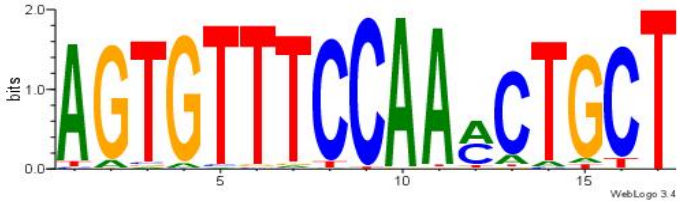

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

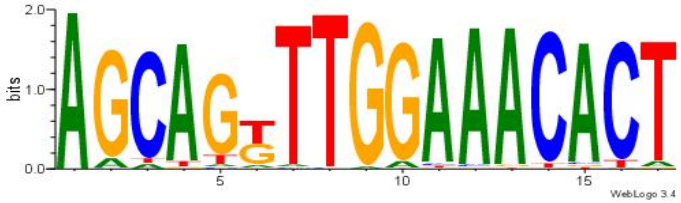

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.102277

Alignment:
CTTGGGTGGTCGATGGGAC
-----CAGGCTGGTCTCG-

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

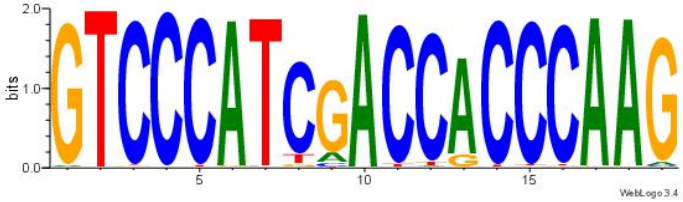

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

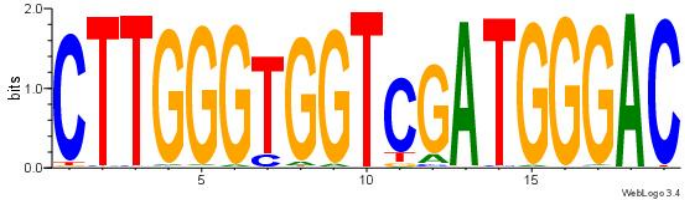

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.103121

Alignment:
GGTCAGGATCATCAATAT
--CAGGCTGGTCTCG---

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence:
GGTCAGGATCATCAATAT

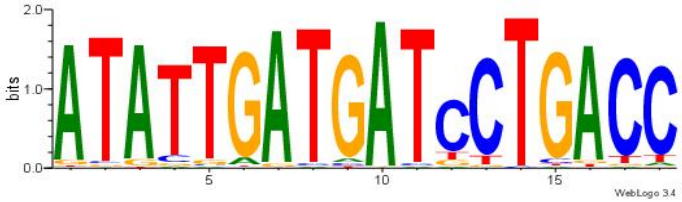

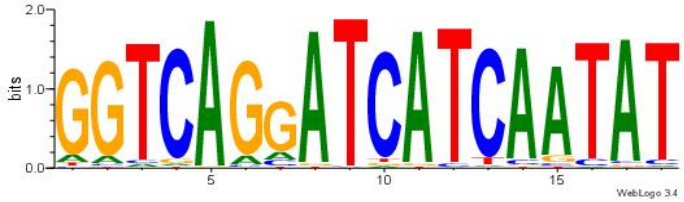

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.103859

Alignment:

```
CACTTTCCAGACTGGGCA
-CGAGACCAGCCTG----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

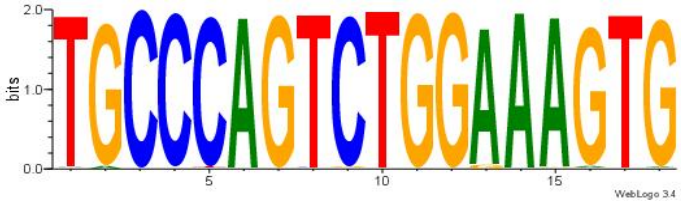

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

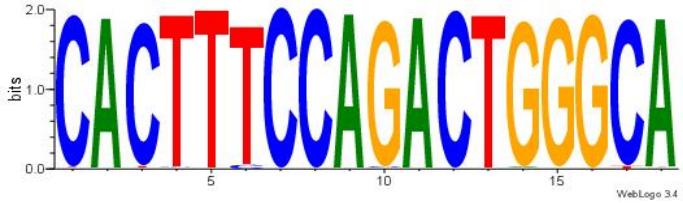

Dataset #:	1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.104536

Alignment:

```
AAAGTGCCGAGAKTGCAGC
----CGAGACCAGCCTG--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

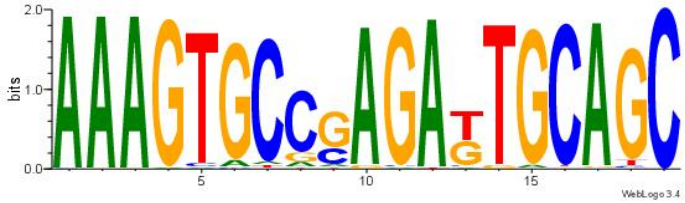

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

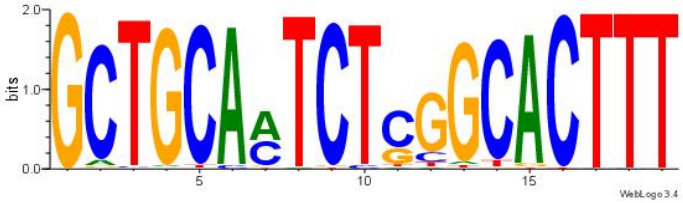

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.104578

Alignment:
GCTGTGTGACCTTGGGCAAG
-CAGGCTGGTCTCG------

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

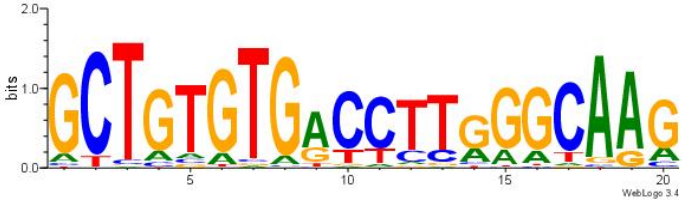

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

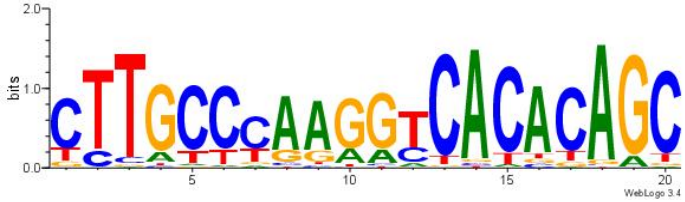

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.105021

Alignment:
CAGGTGGTKTTTGGTTACAT
CAGGCTGGTCTCG-------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

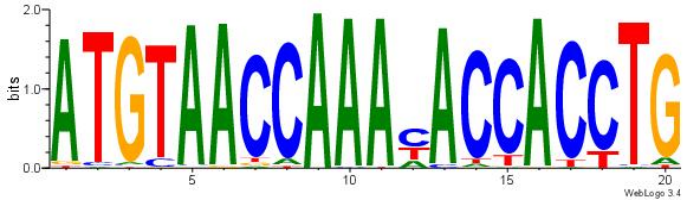

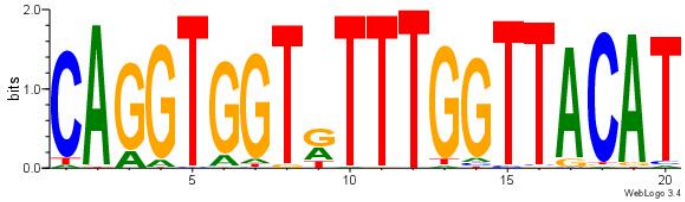

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.105459

Alignment:

```
CAGGCGGCTGGGAG
CAGGCTGGTCTCG-
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

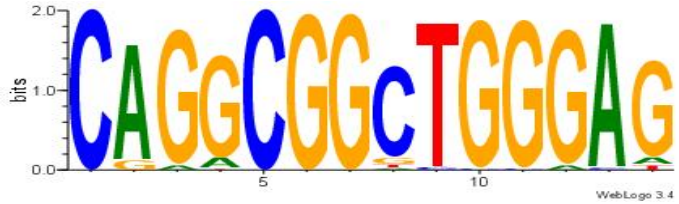

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

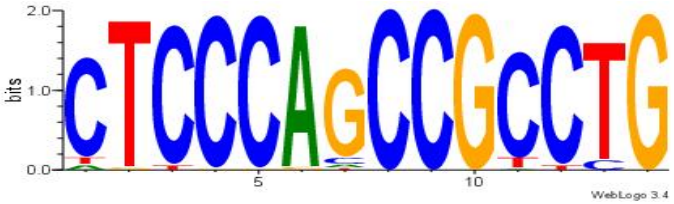

Dataset #:	1
Motif ID:	96

Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.10597

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
------CAGGCTGGTCTCG-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

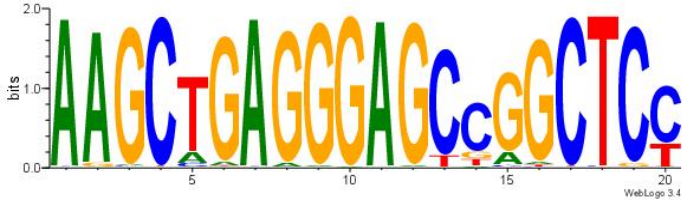

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

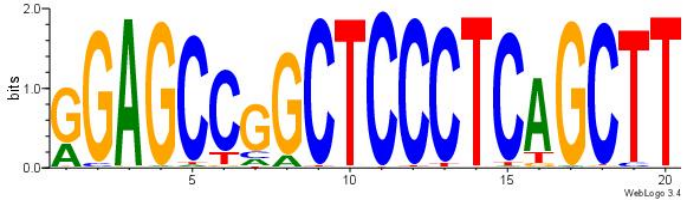

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.106135

Alignment:
AGTGACCCGATTTTCCAGGT
CGAGACCAGCCTG-------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

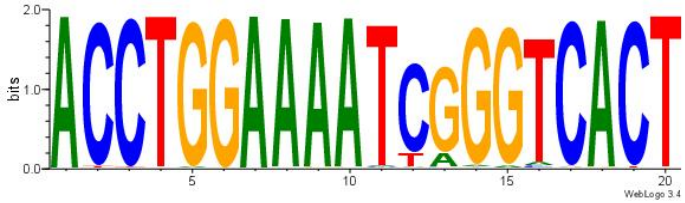

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

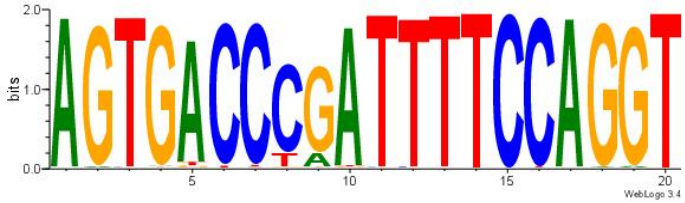

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.106279

Alignment:
KCCGGGCCTTAGCTGCCTTC
--CGAGACCAGCCTG-----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

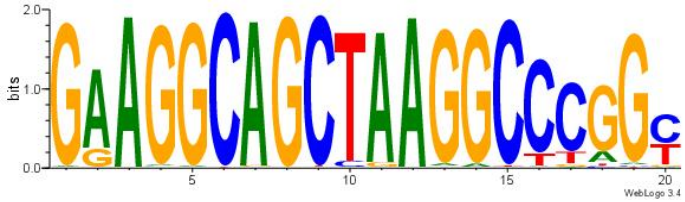

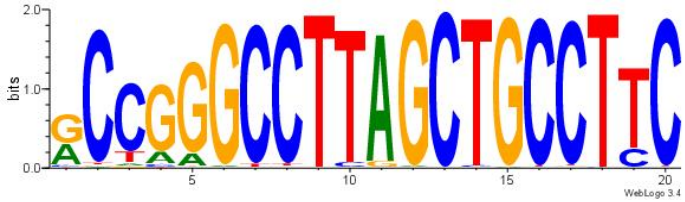

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.107194

Alignment:

```
CATGGCGGGCTGCAGGTC
CAGGCTGGTCTCG-----
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

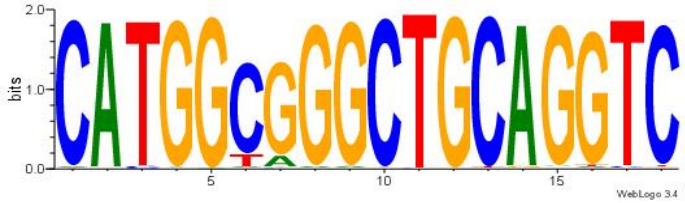

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

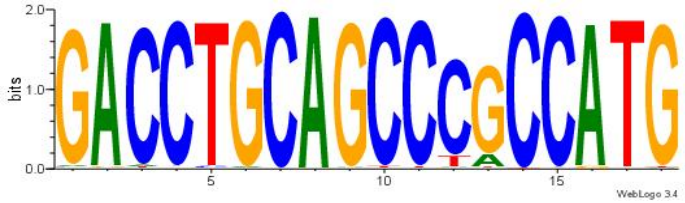

Dataset #:	1

Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.107327

Alignment:

```
GGAGCCCACGGAGG
CGAGACCAGCCTG-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

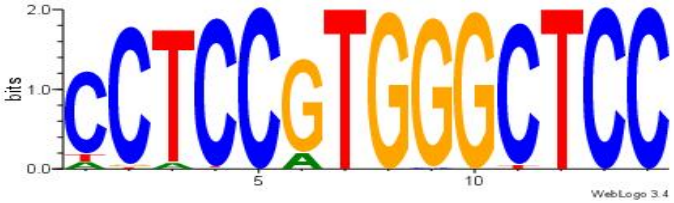

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

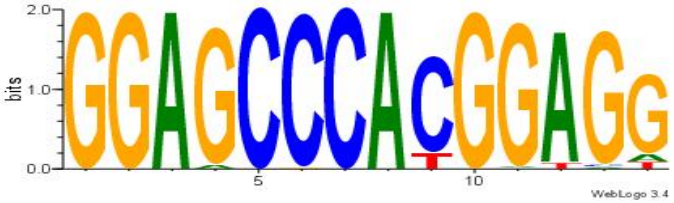

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.10812

Alignment:
AATGAGTTAAGACTTTG
--CGAGACCAGCCTG--

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

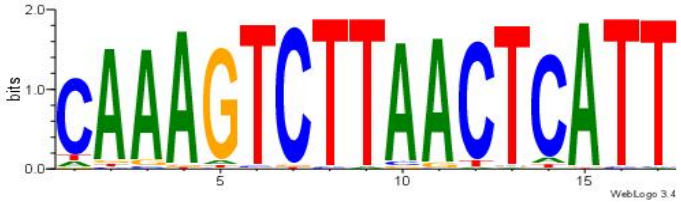

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.108376

Alignment:
AAGACGGGTGATTTCTG
-CAGGCTGGTCTCG---

Original motif Consensus sequence: CAGAAATCACCCGTCTT

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

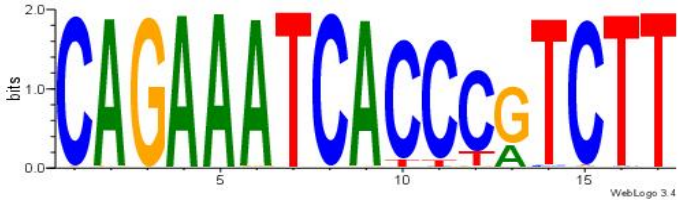

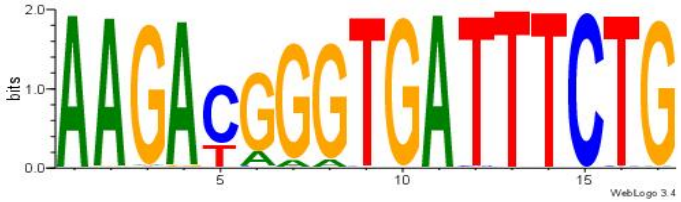

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.108405

Alignment:

```
CTTGCGCTTCCCRRGTGA
-CGAGACCAGCCTG----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

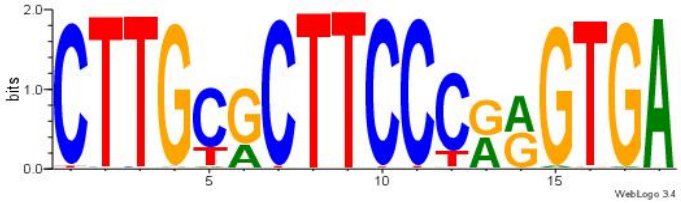

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

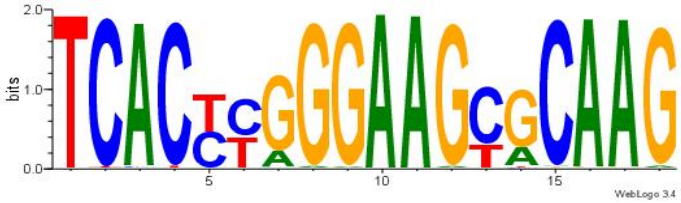

Dataset #:	1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.108755

Alignment:

```
TTGAGGAGGCAGTCTG
---CGAGACCAGCCTG
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

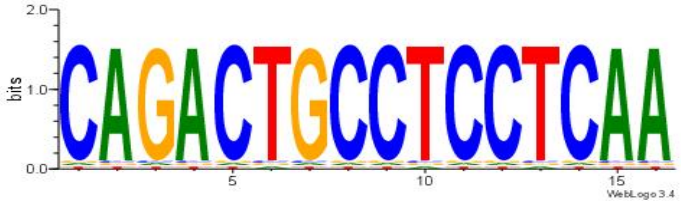

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

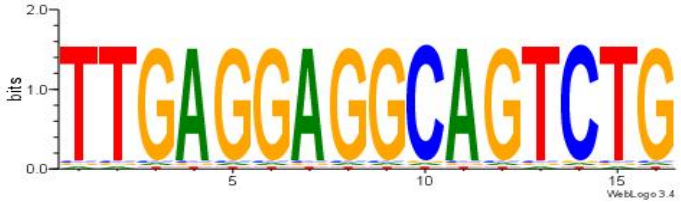

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.109321

Alignment:
ATCTGACAGGAGGYRGAGCT
----CGAGACCAGCCTG---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

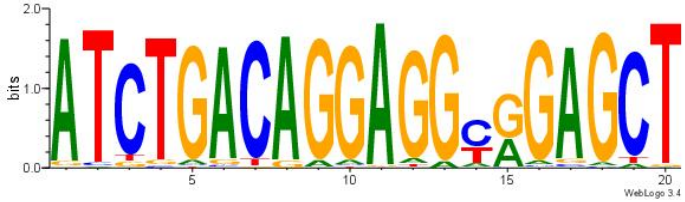

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

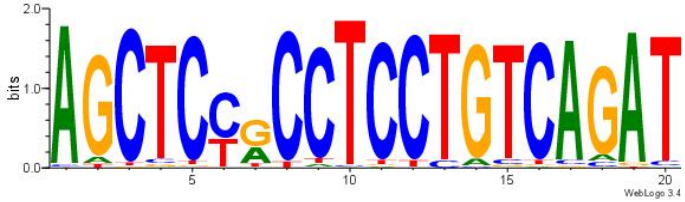

Dataset #: 1
Motif ID: 363
Motif name: Motif 363
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.109518

Alignment:
WACAATCAGACCTTG
--CAGGCTGGTCTCG

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

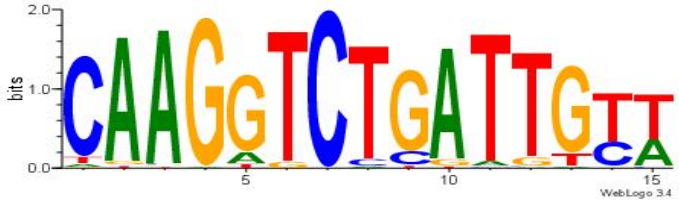

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.109665

Alignment:
GCGMGCGGGAACCGGGGCT
-----CAGGCTGGTCTCG-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

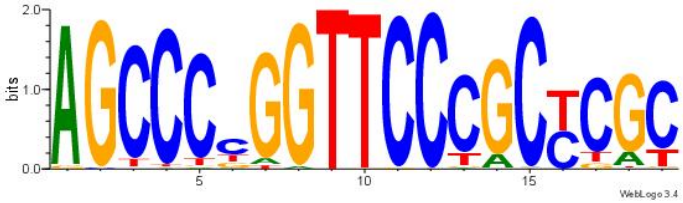

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

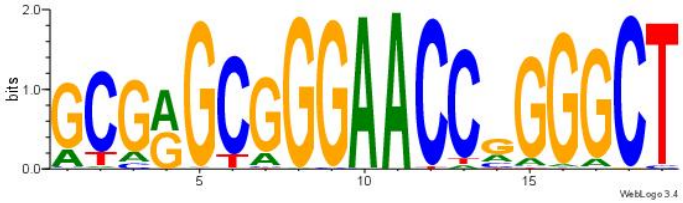

Dataset #: 1

Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.110186

Alignment:

```
ATCCAGTCTATCATTG
-CGAGACCAGCCTG--
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

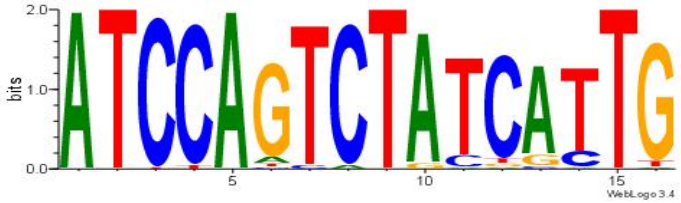

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

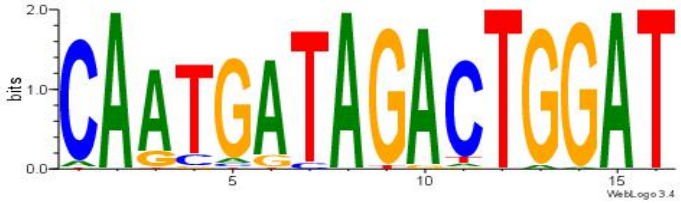

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.110333

Alignment:
ACAGGCTTTGTGTGAGCA
-CAGGCTGGTCTCG----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

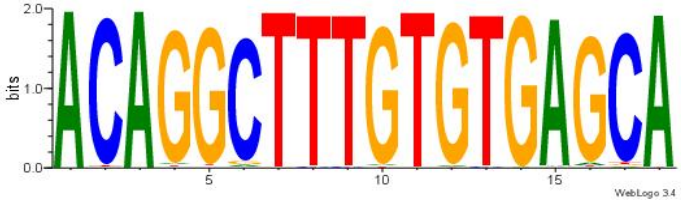

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

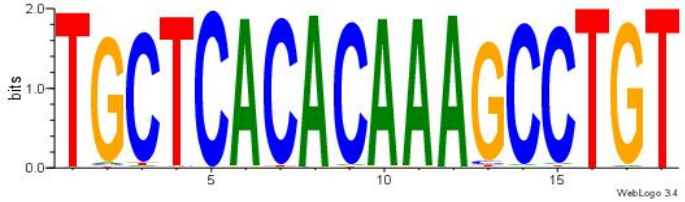

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.110964

Alignment:
TMGGGAGGCTGAGGCAGGAG
---CAGGCTGGTCTCG----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

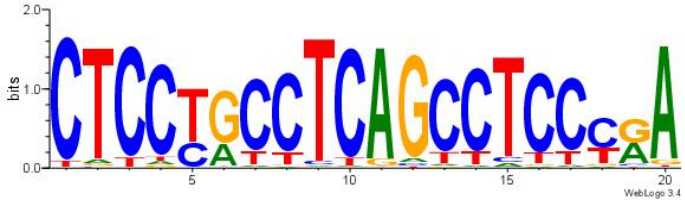

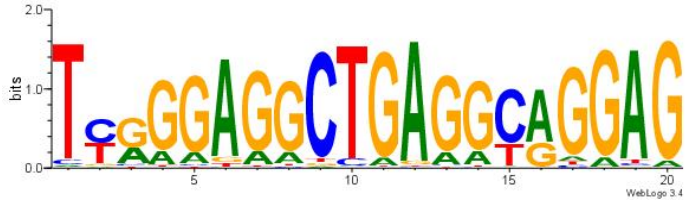

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111016

Alignment:

```
CCATGATTGTRAGG
-CAGGCTGGTCTCG
```

Original motif Consensus sequence: CCATGATTGTRAGG

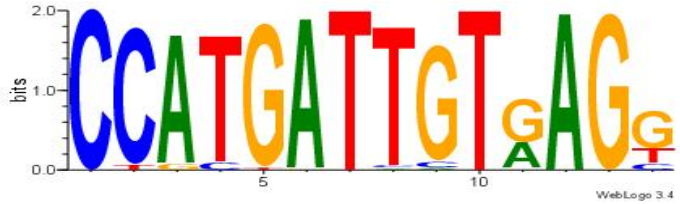

Reverse complement motif Consensus sequence: CCTMACAATCATG

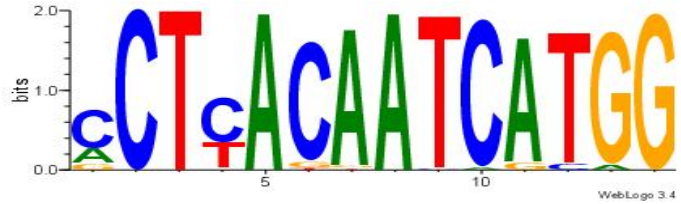

Dataset #:	1
Motif ID:	299

Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.111405

Alignment:

```
TTGGAGGTTCTAGCAGGG
CAGGCTGGTCTCG-----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

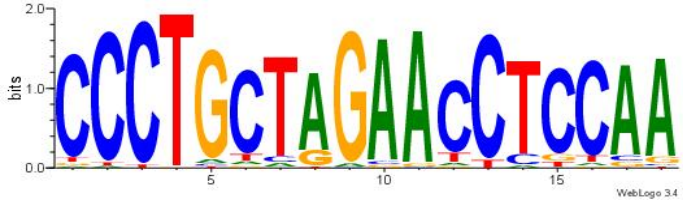

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

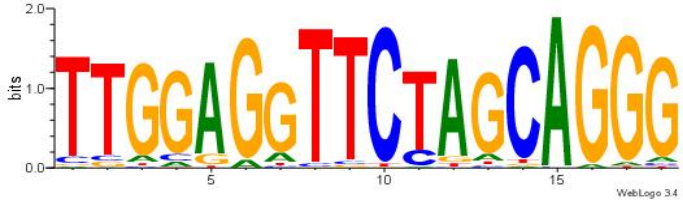

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.111625

Alignment:
CACCTCCCAGACMGGGT
-CGAGACCAGCCTG---

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

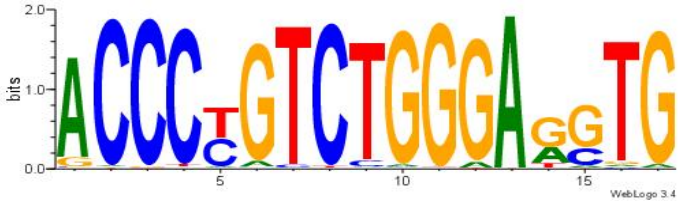

Reverse complement motif Consensus sequence:
CACCTCCCAGACMGGGT

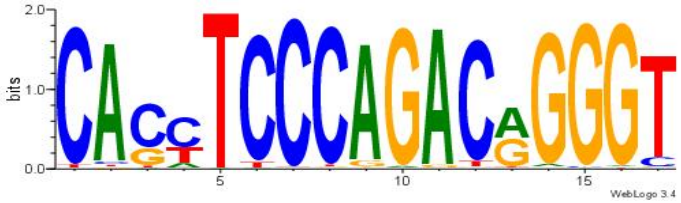

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.111679

Alignment:
AAAACCAGCAAGTTTTTAT
-----CAGGCTGGTCTCG-

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

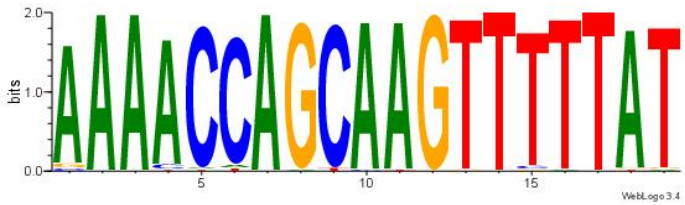

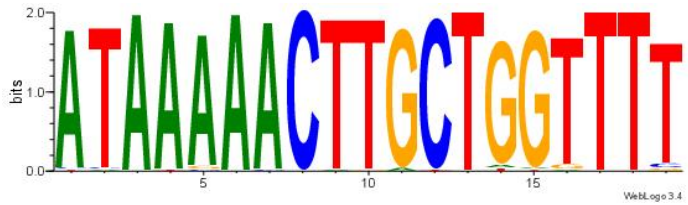

Dataset #: 1 Motif ID: 252 Motif name: Motif 252

Original motif Consensus sequence: AATTAGCYRGG

Reverse complement motif Consensus sequence: CCMKGCTAATT

Best Matches for Motif ID 252 (Highest to Lowest)

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0630561

Alignment:

```
CCATGTTTATT
CCMKGCTAATT
```

Original motif Consensus sequence: AATAAACATGG

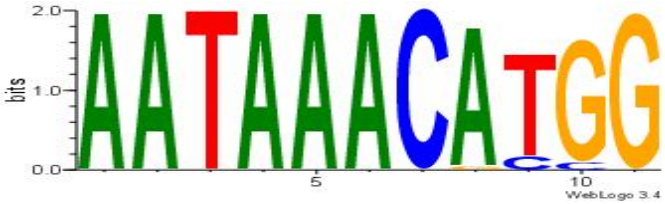

Reverse complement motif Consensus sequence: CCATGTTTATT

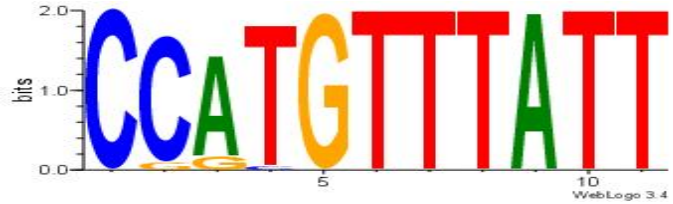

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0649059

Alignment:

```
TCTMKGCTCACTGC
-CCMKGCTAATT--
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

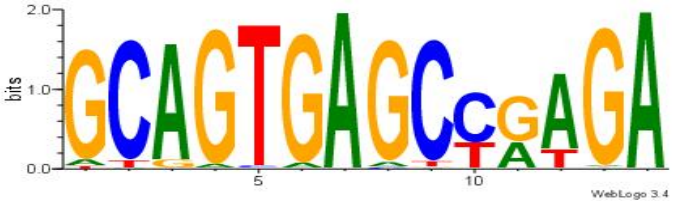

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

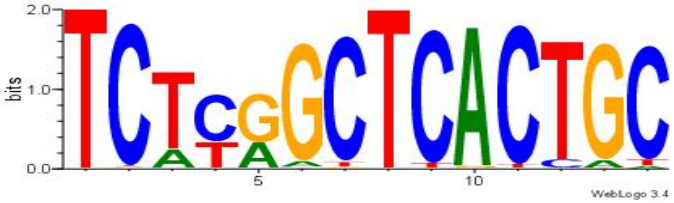

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0702894

Alignment:

```
AAATTACCCAGTCTCAGGTA
-AATTAGCYRGG--------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

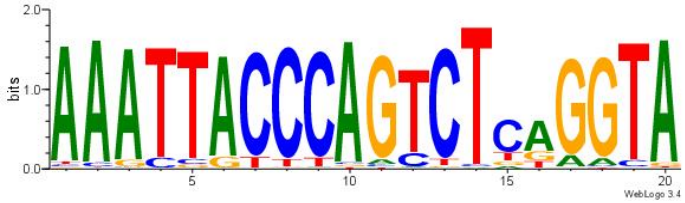

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

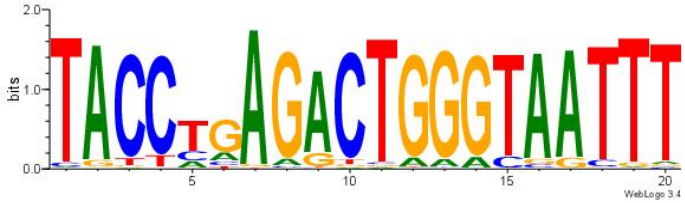

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 11
Similarity score: 0.0819954

Alignment:
GACATGAGCTGGCGCTTG
--AATTAGCYRGG-----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

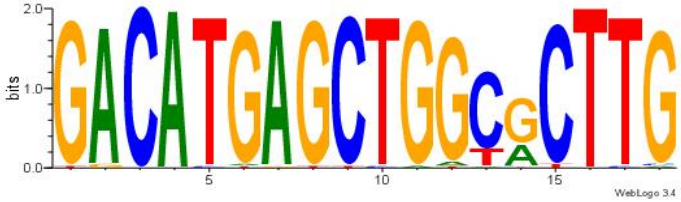

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

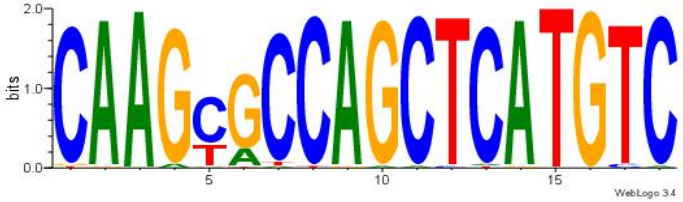

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0823491

Alignment:
ATAAAAACTTGCTGGTTTT
-----AATTAGCYRGG---

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

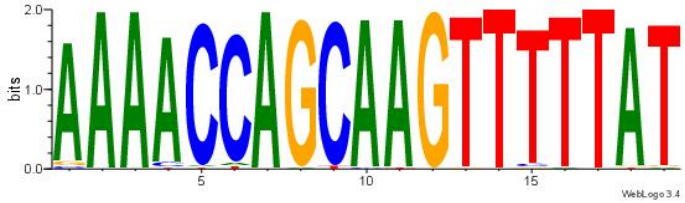

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

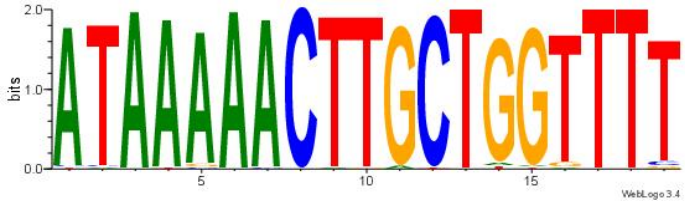

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0835996

Alignment:

```
TTACAGGCTCATA
--CCMKGCTAATT
```

Original motif Consensus sequence: TATGAGCCTGTAA

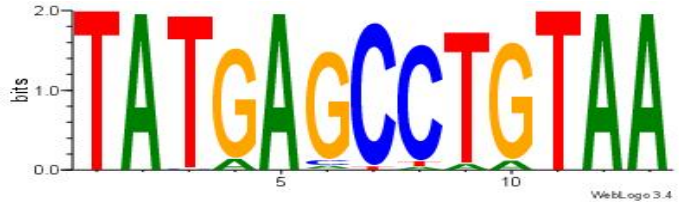

Reverse complement motif Consensus sequence: TTACAGGCTCATA

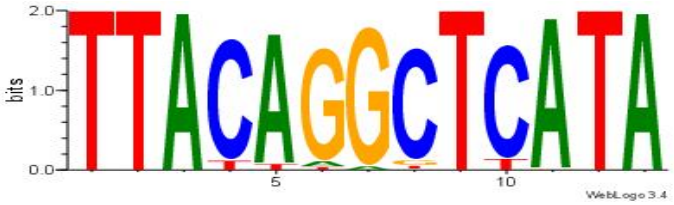

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0847501

Alignment:

```
ACCTGGAAAATCGGGTCACT
--------CCMKGCTAATT-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

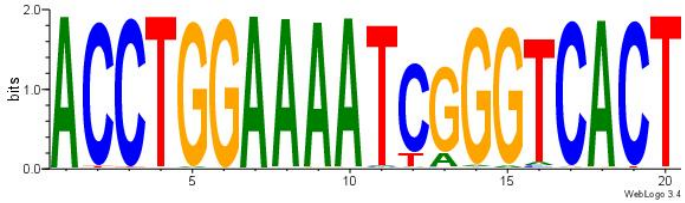

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

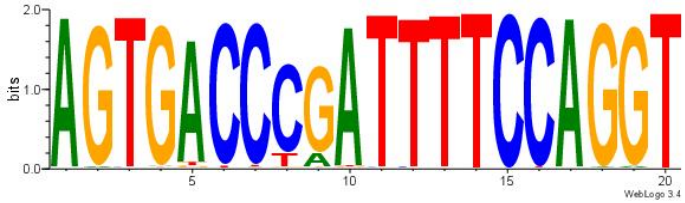

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7

Number of overlap: 11
Similarity score: 0.0876594

Alignment:
AATGAGTTAAGACTTTG
AATTAGCYRGG------

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

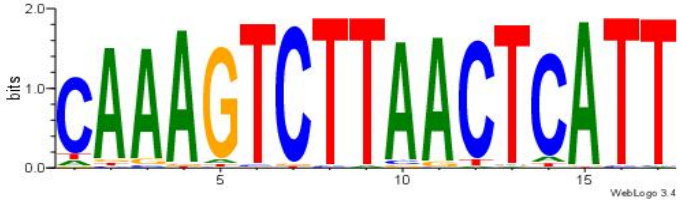

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0902142

Alignment:
AAGACGGGTGATTTCTG
--CCMKGCTAATT----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

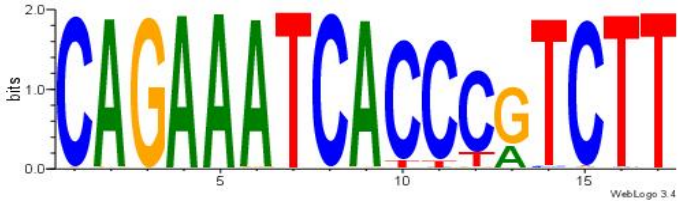

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

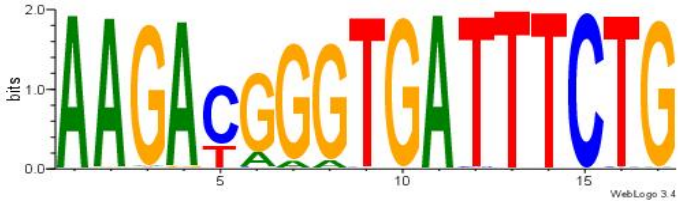

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0904023

Alignment:

```
GCTGGCCCKGGTGCTAAGC
-----CCMKGCTAATT---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

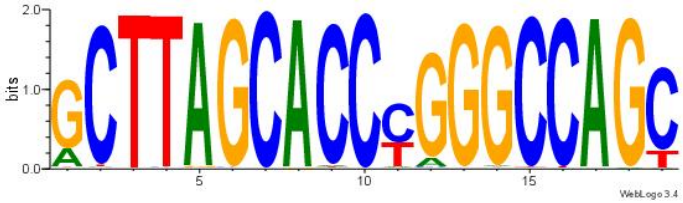

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

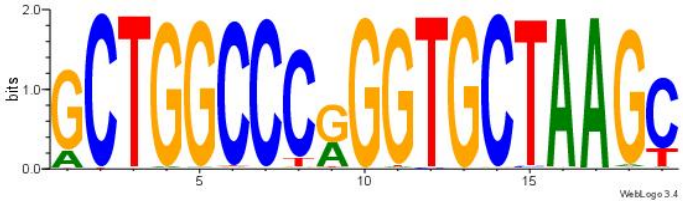

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0904634

Alignment:

```
TGATACCCAGGCAAACAG
------CCMKGCTAATT-
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

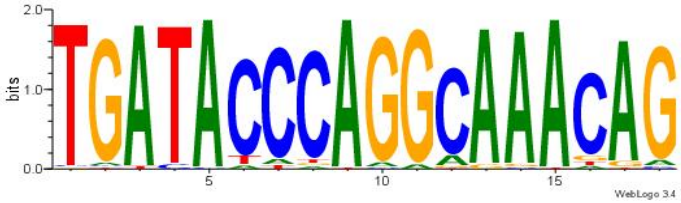

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

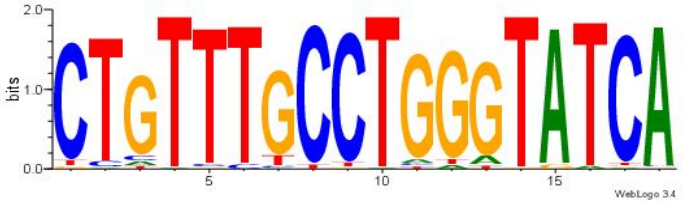

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9

Number of overlap: 11
Similarity score: 0.0914953

Alignment:
AAATTAGGCCAATTAATAAC
-AATTAGCYRGG--------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

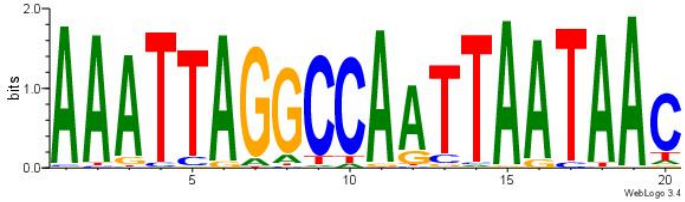

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0918477

Alignment:
CCCATGCAAGTCYRAAATCC
-CCMKGCTAATT--------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

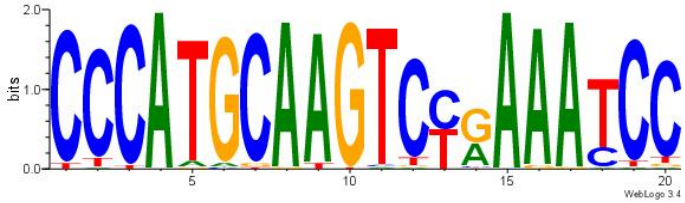

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

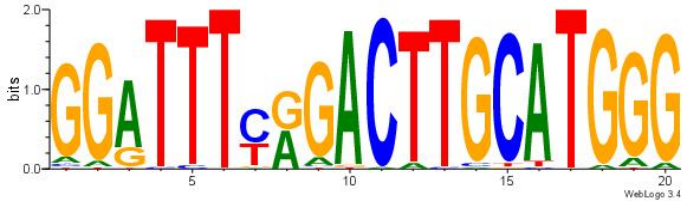

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0922575

Alignment:

```
CCCCGGGCAGTGAGGG
-CCMKGCTAATT----
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

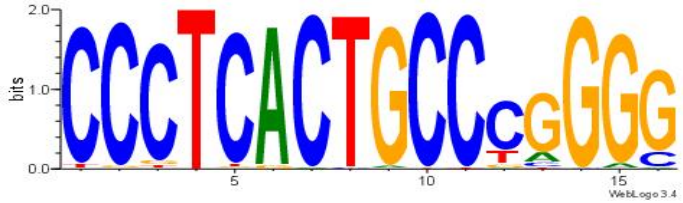

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

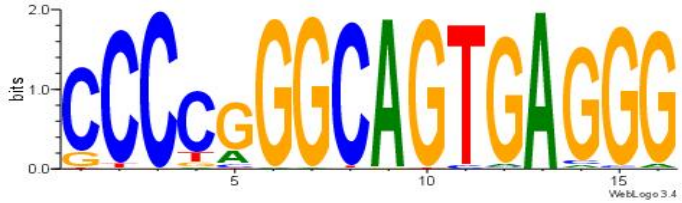

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0923781

Alignment:

```
GTTGGCCAGGCTGGTCT
-----CCMKGCTAATT-
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

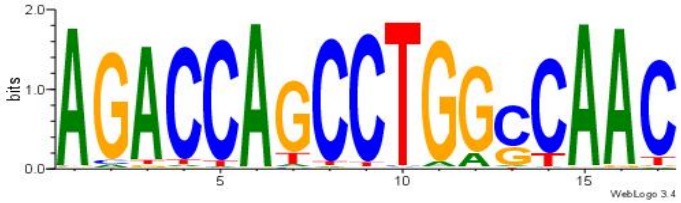

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

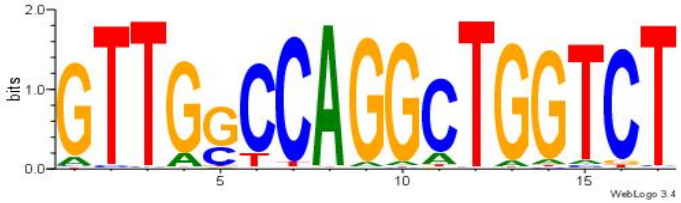

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7

Number of overlap: 11
Similarity score: 0.0929

Alignment:
ATTGATMKCCAGGGTTGATT
------AATTAGCYRGG---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

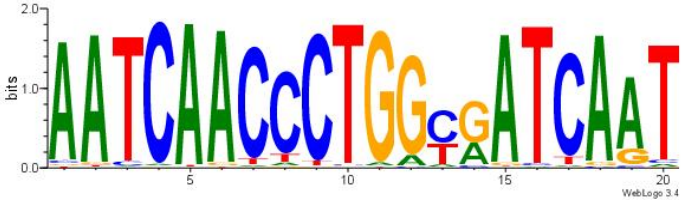

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

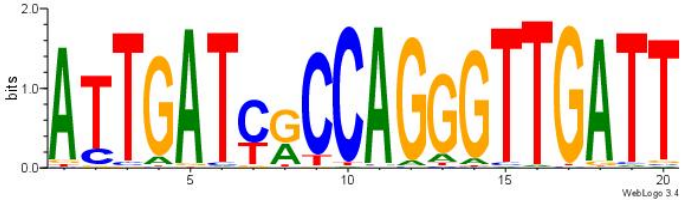

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0940498

Alignment:
CCCTGCTAGAACCTCCAA
CCMKGCTAATT-------

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

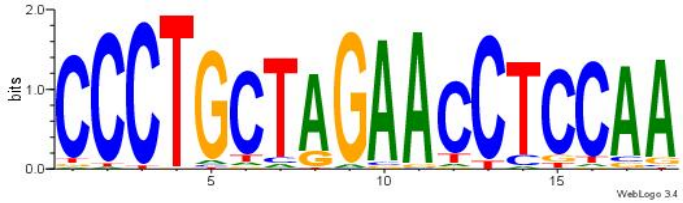

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

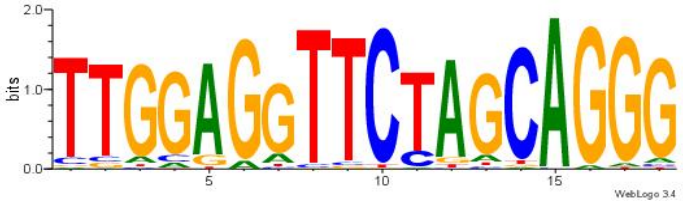

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0962655

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
------AATTAGCYRGG---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

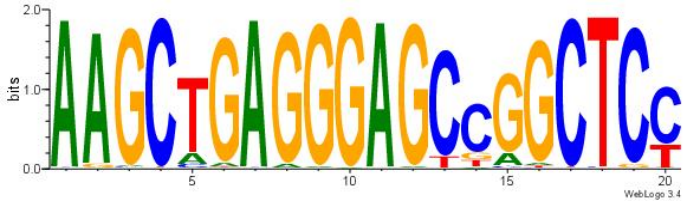

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

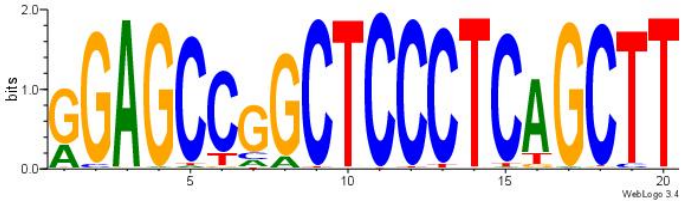

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0971491

Alignment:

```
GGATCCACTGGGTGAAGCCA
-AATTAGCYRGG--------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

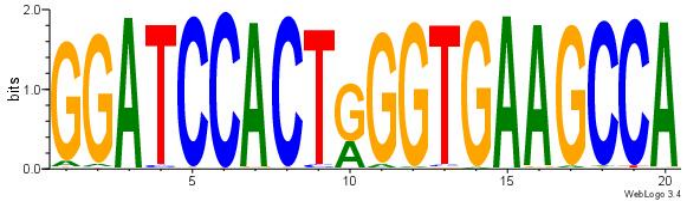

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

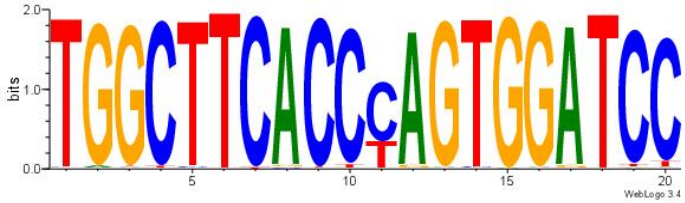

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 11
Similarity score: 0.0973794

Alignment:
CCTGCCATTGCYSAGGCTTG
-----AATTAGCYRGG----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

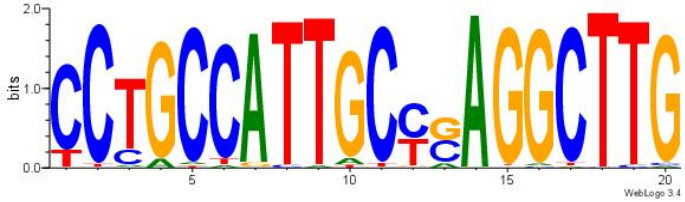

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

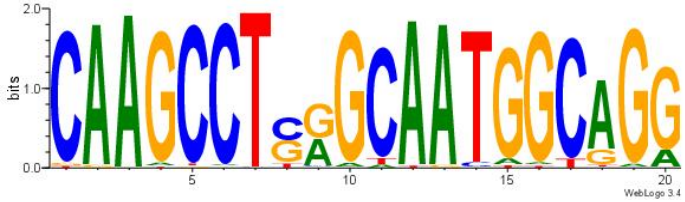

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0982237

Alignment:
CCCYAATACTGCGCTTTTC
CCMKGCTAATT--------

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

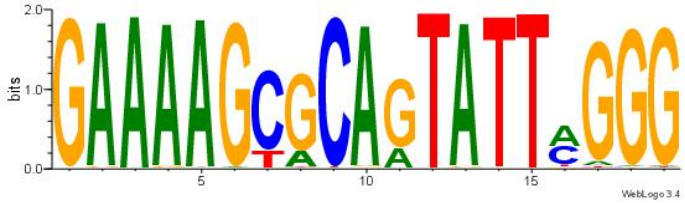

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

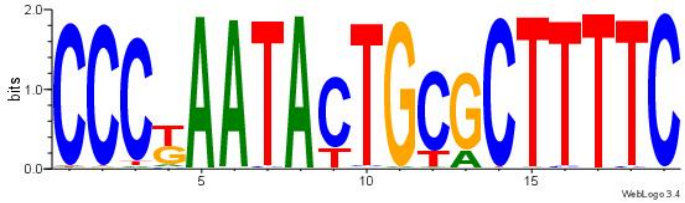

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0984108

Alignment:

```
CATTATGCTAARTG
--CCMKGCTAATT-
```

Original motif Consensus sequence: CATTATGCTAARTG

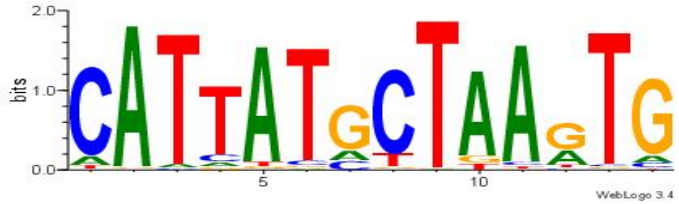

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

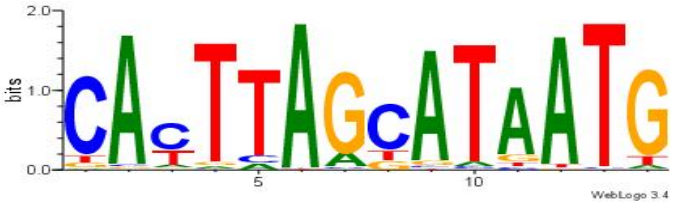

Dataset #:	1
Motif ID:	40
Motif name:	Motif 40
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.098461

Alignment:

```
ACTTTGGGAGGC
AATTAGCYRGG-
```

Original motif Consensus sequence: ACTTTGGGAGGC

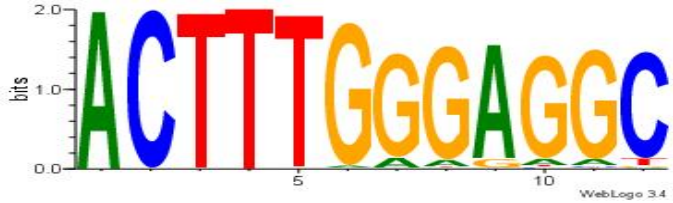

Reverse complement motif Consensus sequence: GCCTCCCAAAGT

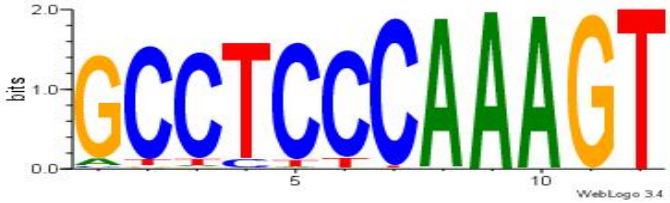

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0986196

Alignment:
TTCAMTCATGATTTGGCTCT
--CCMKGCTAATT-------

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

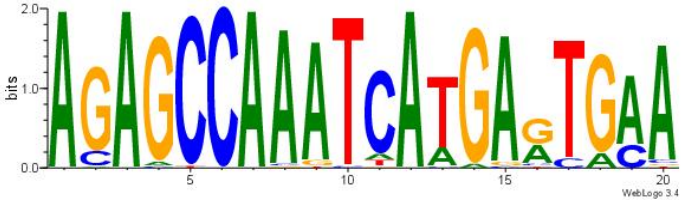

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

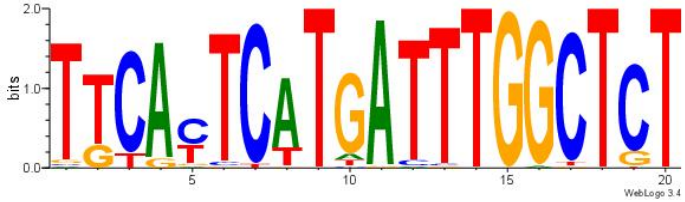

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0987096

Alignment:
CTCAGTGTTAATCTCCTGTC
--CCMKGCTAATT-------

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

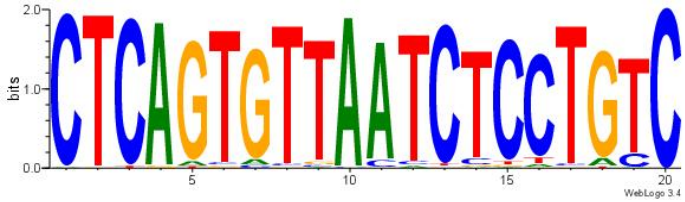

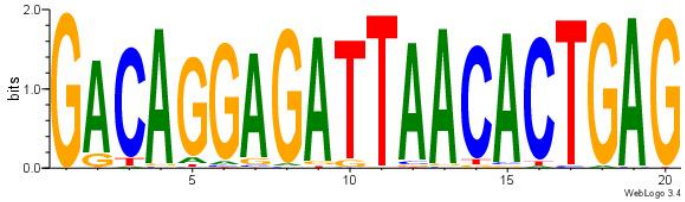

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0987556

Alignment:

```
GGGTGCAGGMGGGCTGAGT
--------CCMKGCTAATT
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

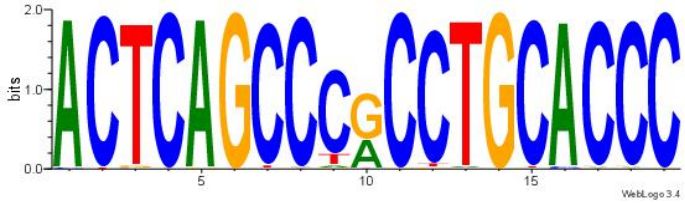

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

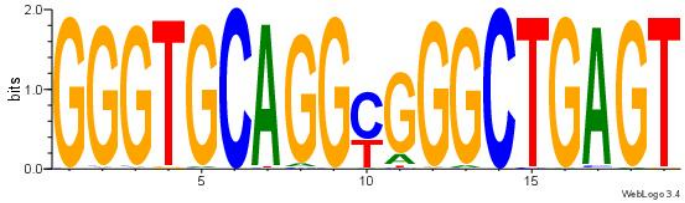

Dataset #: 1

Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0990673

Alignment:

```
CCCACACCCTTATTA
---CCMKGCTAATT-
```

Original motif Consensus sequence: CCCACACCCTTATTA

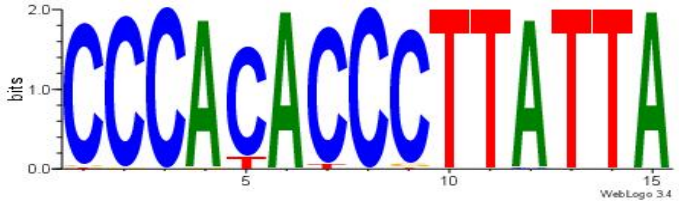

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

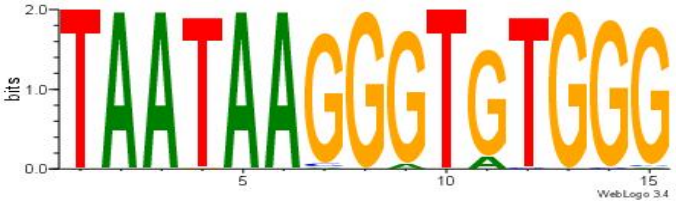

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0991338

Alignment:
AAAGTGCCGAGAKTGCAGC
AATTAGCYRGG--------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

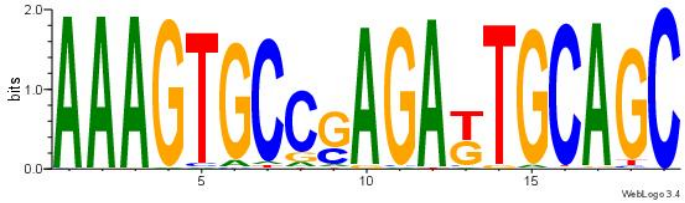

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

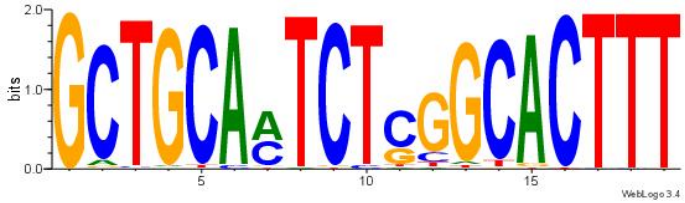

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0991814

Alignment:
GCGGCTGGCCGGGCG
--AATTAGCYRGG--

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence:
GCGGCTGGCCGGGCG

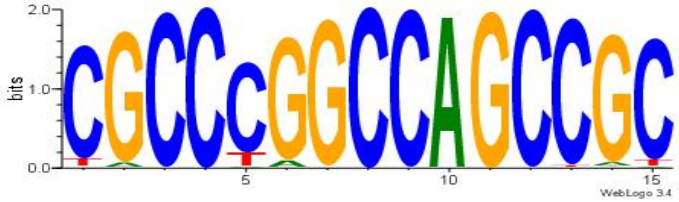

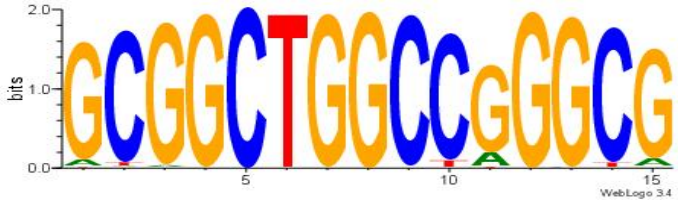

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.100511

Alignment:

```
AAAGAGAGTCAGCGAAG
------AATTAGCYRGG
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

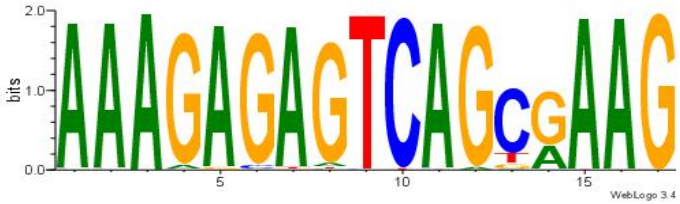

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

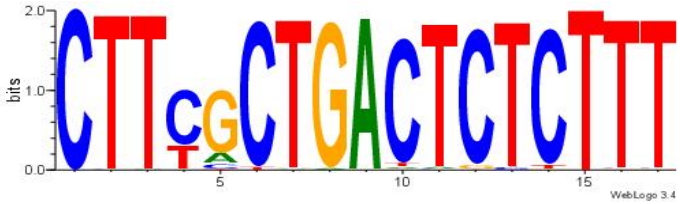

Dataset #:	1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.101371

Alignment:

```
MCCYGGCWSMGASGSTCCT
-CCMKGCTAATT-------
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

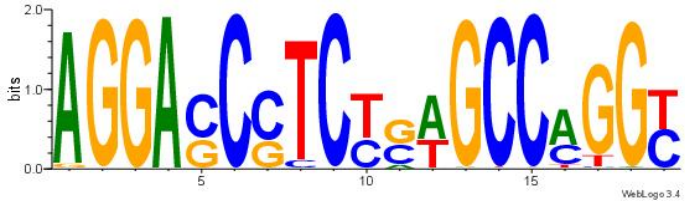

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

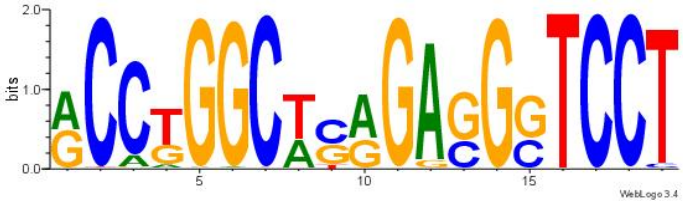

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.10231

Alignment:
TGTATTAGTCMMTT
-AATTAGCYRGG--

Original motif Consensus sequence: AAYRGACTAATACA

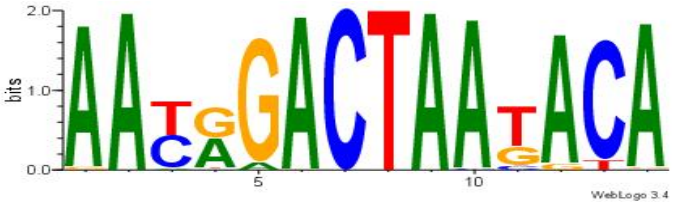

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

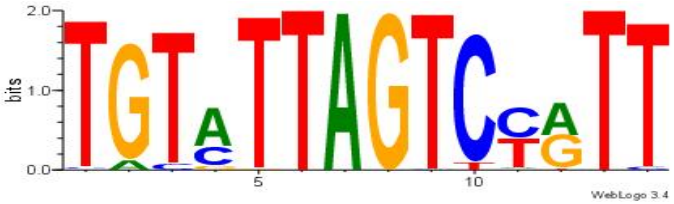

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.10238

Alignment:
GAAHCAACCKAAKTGTCCAT
---CCMKGCTAATT------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

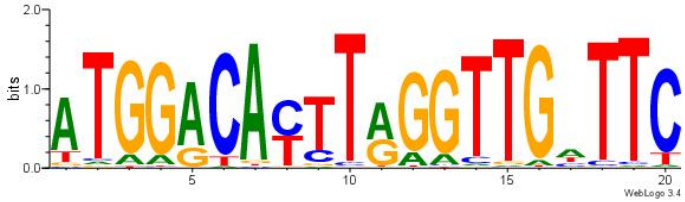

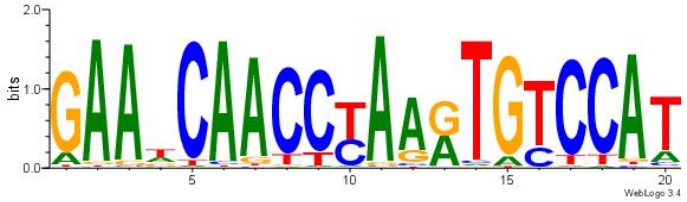

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.103085

Alignment:

```
GCCAGGCAGAGRGKCTCCT
-------CCMKGCTAATT-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

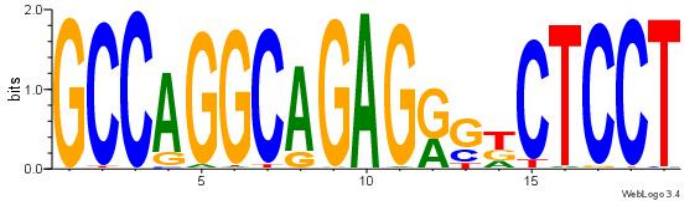

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

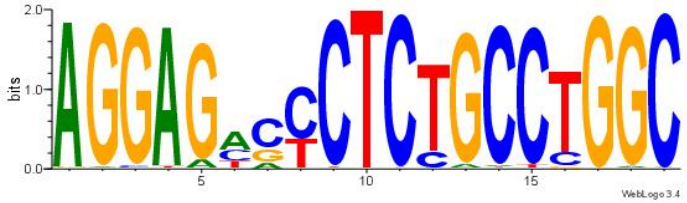

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.103123

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-----AATTAGCYRGG----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

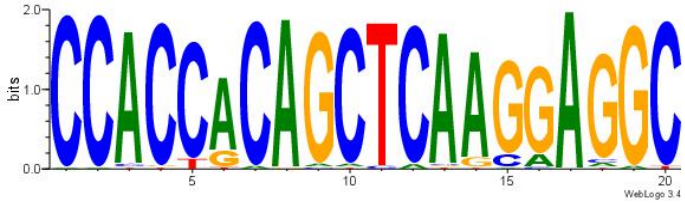

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

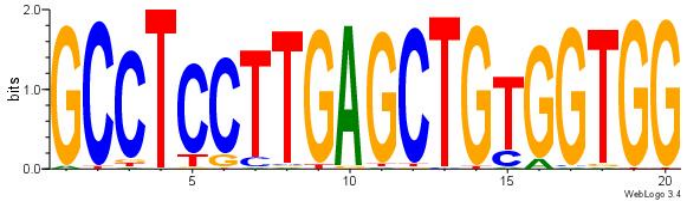

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.103148

Alignment:
GGTGGAGCTGCCTGCCAGTC
---------CCMKGCTAATT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

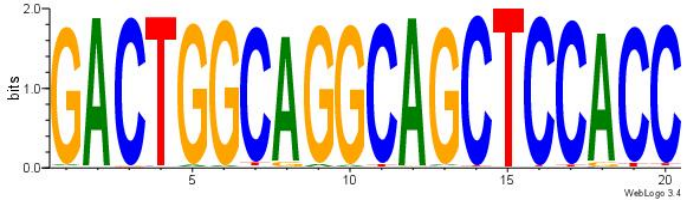

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

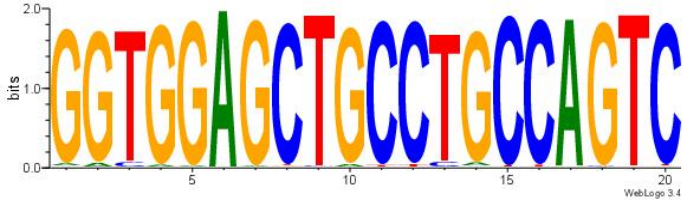

Dataset #: 1
Motif ID: 351
Motif name: Motif 351
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.103432

Alignment:
ATTMGGGTGGG
AATTAGCYRGG

Original motif Consensus sequence: ATTMGGGTGGG

Reverse complement motif Consensus sequence: CCCACCCYAAT

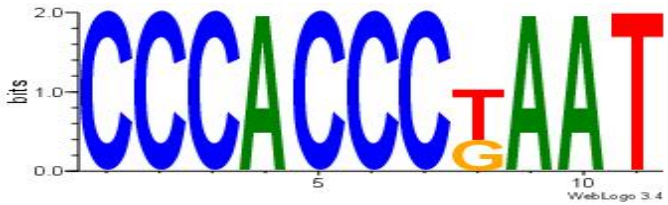

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.103479

Alignment:
AAGCTCGAACTGGGTGGAGC
-------AATTAGCYRGG--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

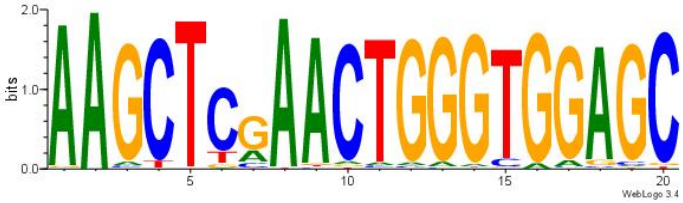

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

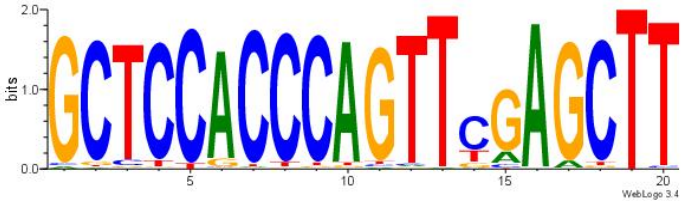

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.103762

Alignment:

```
GGTTCATCTCACTAGGGAGT
-----AATTAGCYRGG----
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

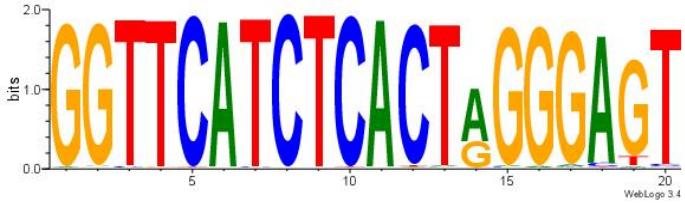

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

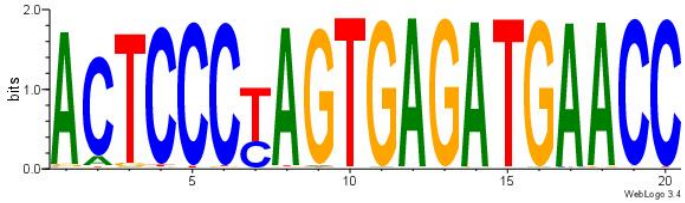

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.104035

Alignment:
ACATCCCAGACGATGGGCG
----CCMKGCTAATT----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

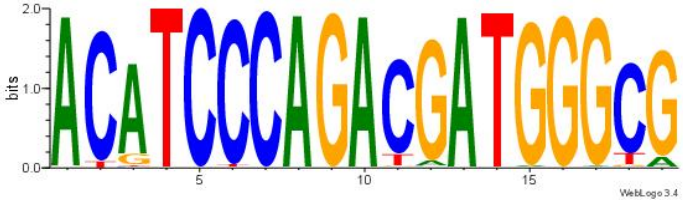

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

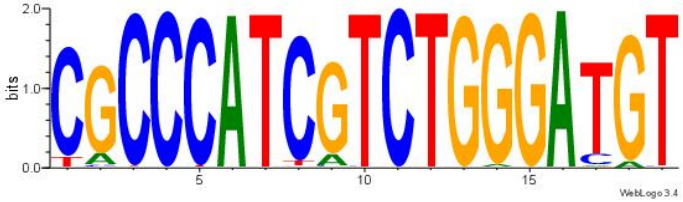

Dataset #: 1
Motif ID: 39
Motif name: Motif 39
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.104563

Alignment:
AGGCGGCTGGGAGG
AATTAGCYRGG---

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

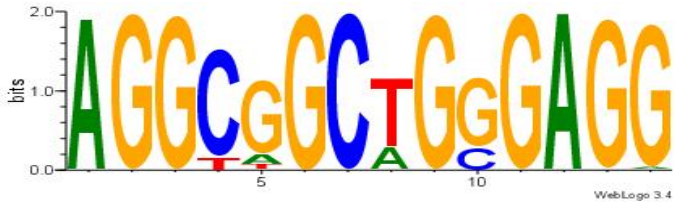

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.104959

Alignment:

```
KGAGAACAGTAGGG
AATTAGCYRGG---
```

Original motif Consensus sequence: CCCTACTGTTCTCY

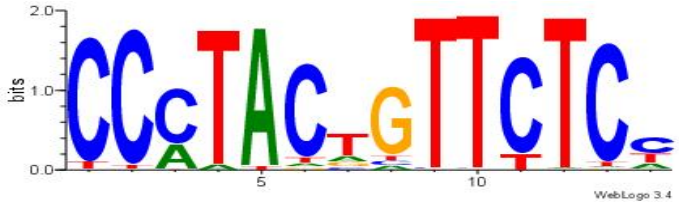

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #:	1
Motif ID:	356

Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.105083

Alignment:

```
CAGTCTGTGTCTTTTAATT
--------CCMKGCTAATT
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

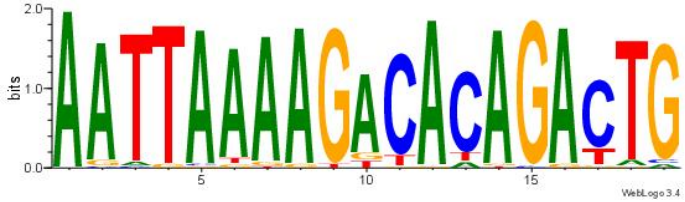

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

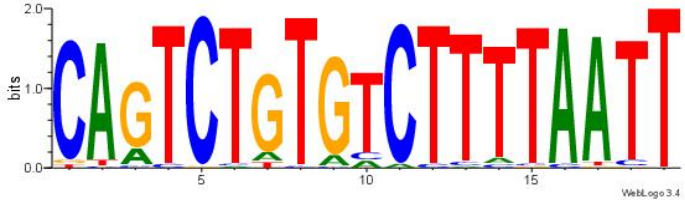

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.105118

Alignment:
GAAGGCAGCTAAGGCCCGGY
------CCMKGCTAATT---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

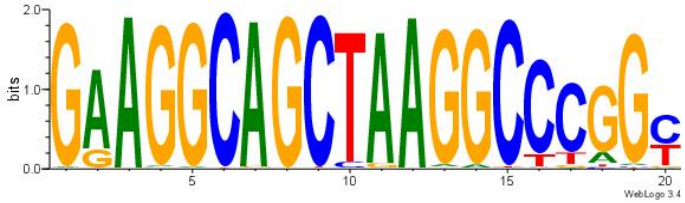

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

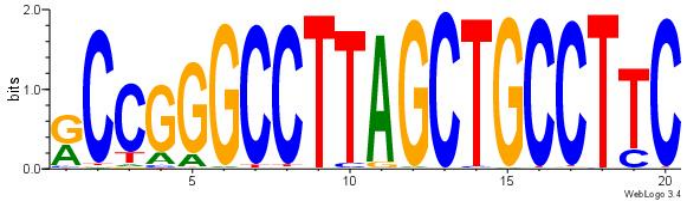

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.105141

Alignment:
AAGTCTCCCAATTACAACT
--CCMKGCTAATT------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

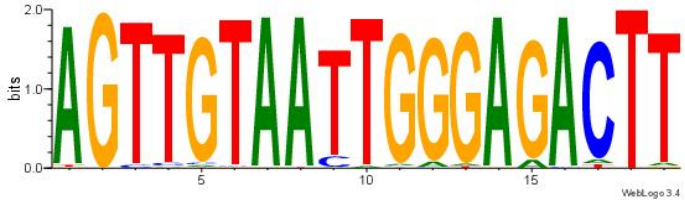

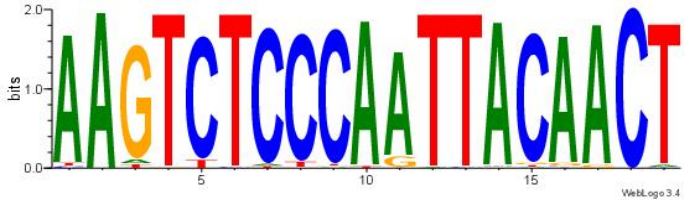

Dataset #:	1
Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.105785

Alignment:

```
GATGTGTCTGGAG
--AATTAGCYRGG
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

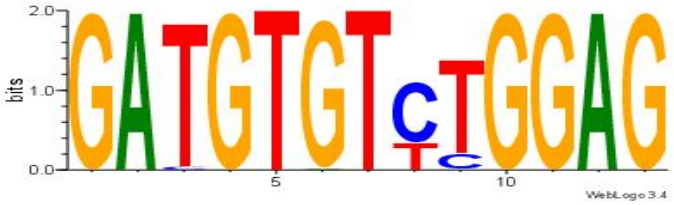

Dataset #:	1
Motif ID:	189

Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.105796

Alignment:

```
CAATGATAGACTGGAT
--AATTAGCYRGG---
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

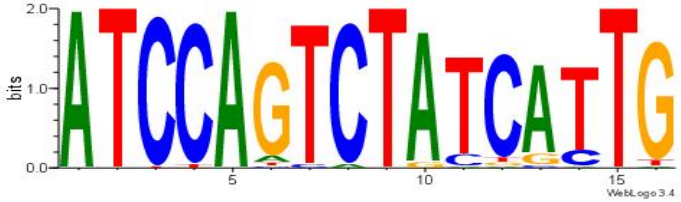

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.106119

Alignment:
TAATTTTATGTGTCAACTTG
-AATTAGCYRGG--------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

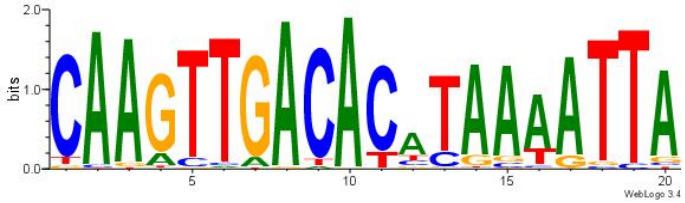

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

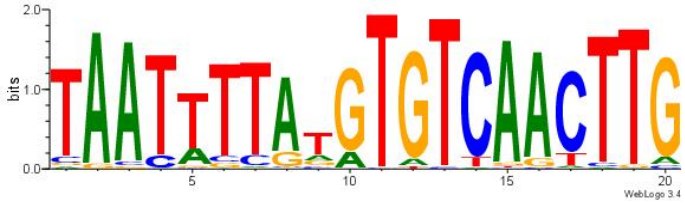

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.106685

Alignment:
CAGGCGGCTGGGAG
-AATTAGCYRGG--

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

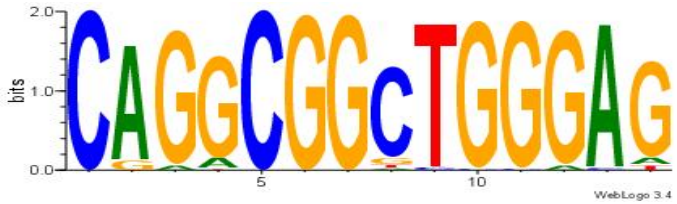

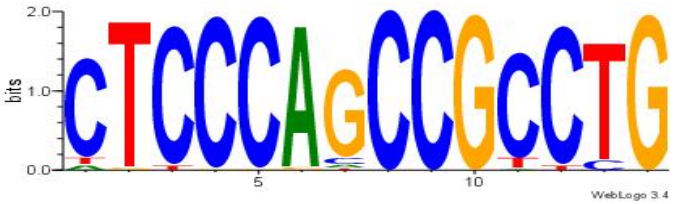

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.107159

Alignment:

```
MGGGATATAATCTCCTGGTG
--AATTAGCYRGG-------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

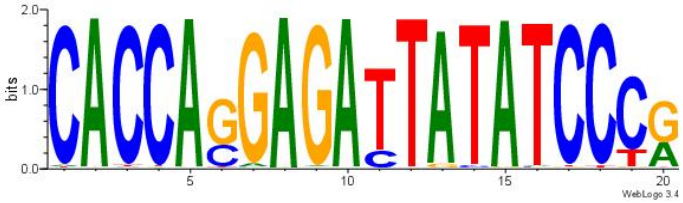

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

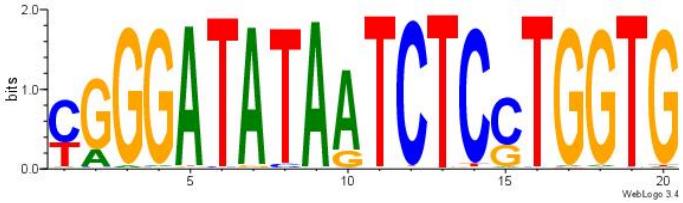

Dataset #: 1 Motif ID: 253 Motif name: Motif 253

Original motif Consensus sequence: AGAGTCTCACTCTGT

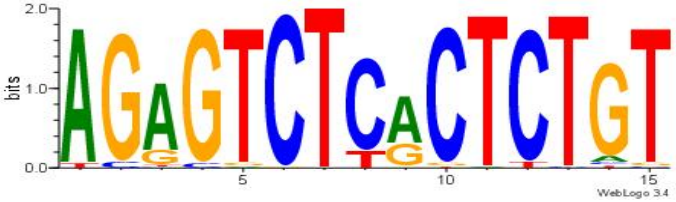

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

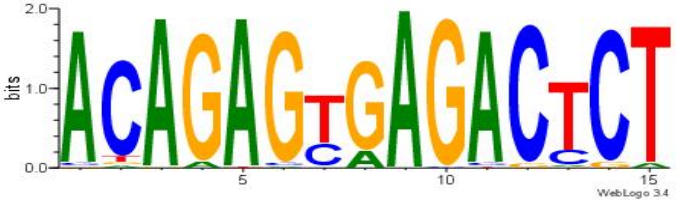

Best Matches for Motif ID 253 (Highest to Lowest)

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0826494

Alignment:

```
ACAAGGCAAGTCCCTTCY
---ACAGAGTGAGACTCT
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

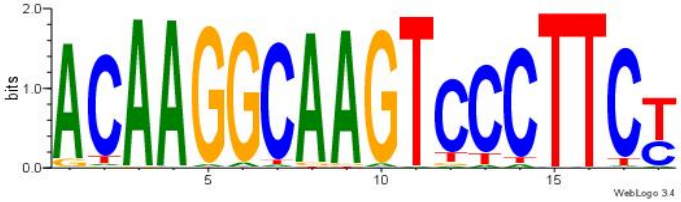

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

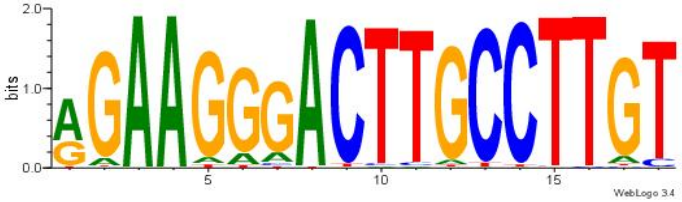

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.0874293

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

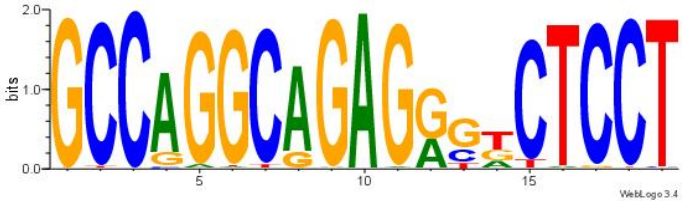

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

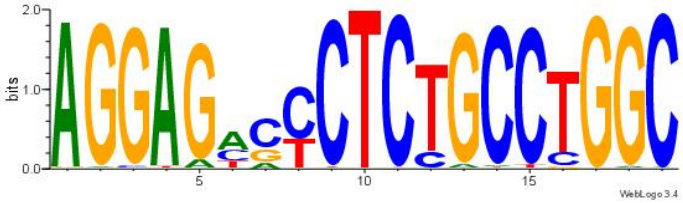

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.0917557

Alignment:
AAGCAGGGCGAGGCATTGCC
---ACAGAGTGAGACTCT--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

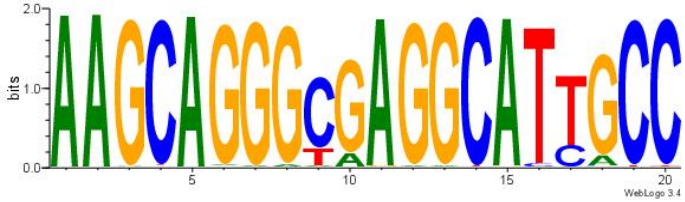

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

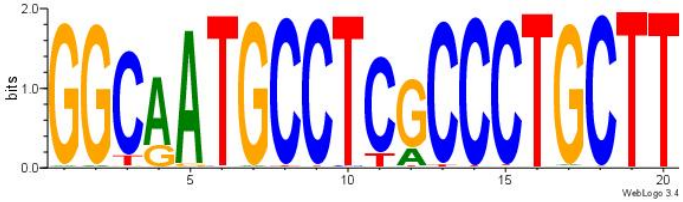

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0934943

Alignment:
ACCGAGMKMGCAGCTTCGGG
ACAGAGTGAGACTCT-----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

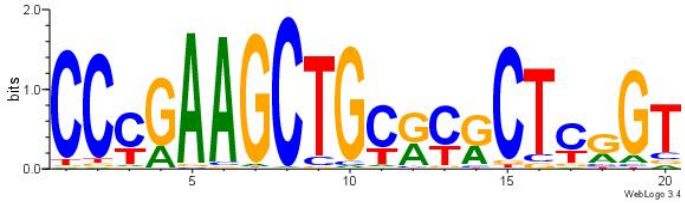

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

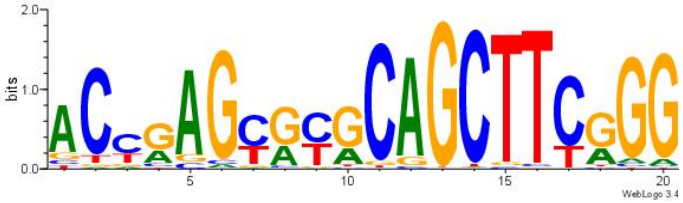

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0950453

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
--ACAGAGTGAGACTCT---
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

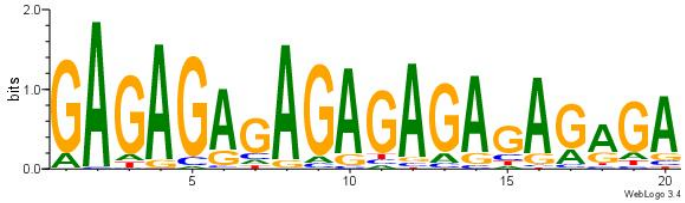

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

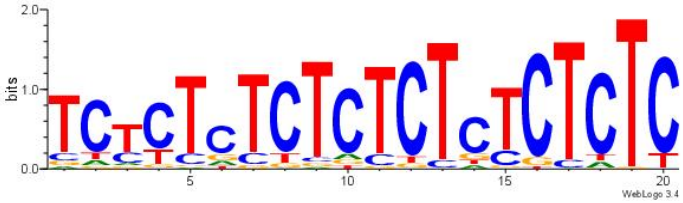

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0958601

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-ACAGAGTGAGACTCT----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

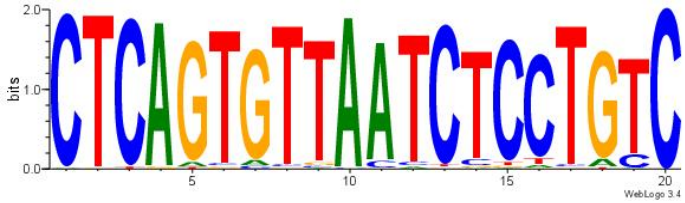

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

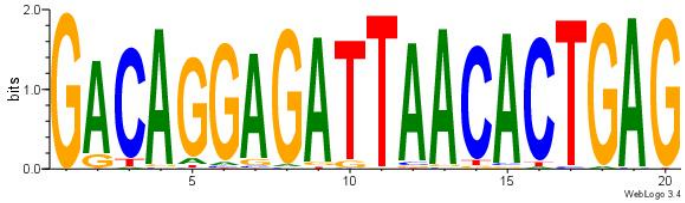

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.096733

Alignment:
AGCTCCCAGCGTGAGCGACG
ACAGAGTGAGACTCT-----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

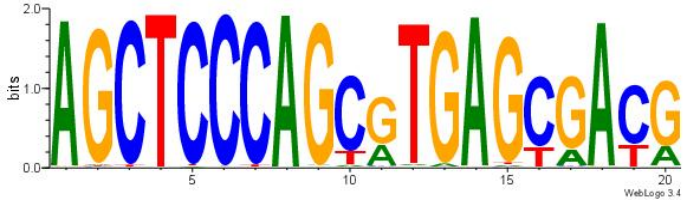

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

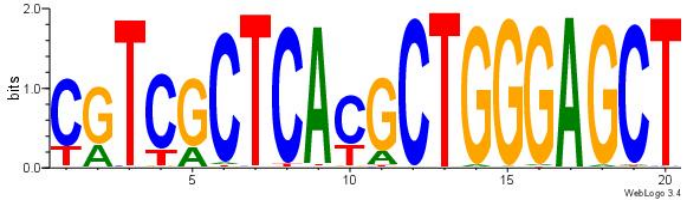

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.099621

Alignment:
AGGACTGAGGGTGCCYRGGG
---ACAGAGTGAGACTCT--

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

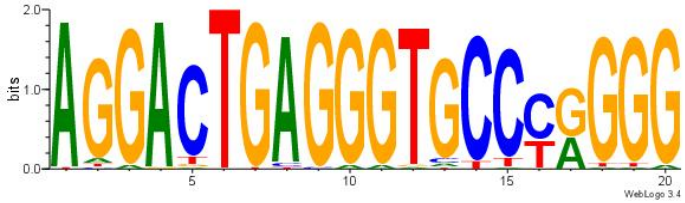

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

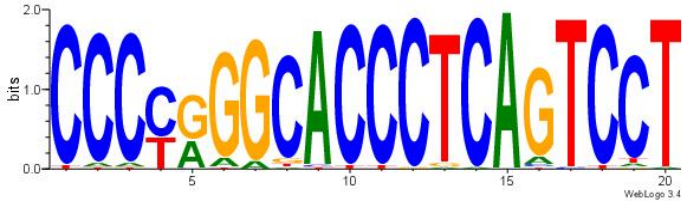

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.100111

Alignment:

```
TGGAGAACCTTTATGTCTAG
--AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

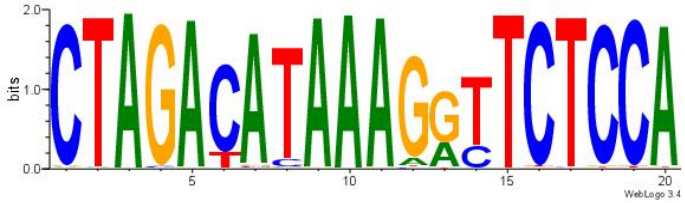

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

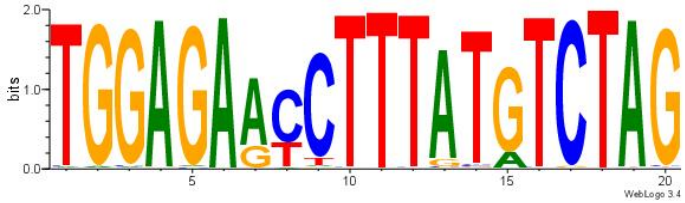

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.101461

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
--AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

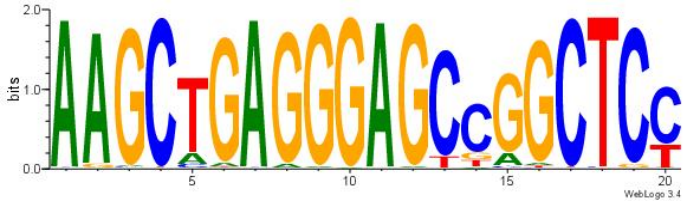

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

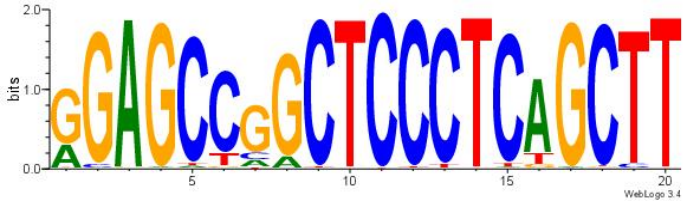

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 15
Similarity score: 0.104724

Alignment:
CTGGGCRACAGAGYRAGACY
ACAGAGTGAGACTCT-----

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

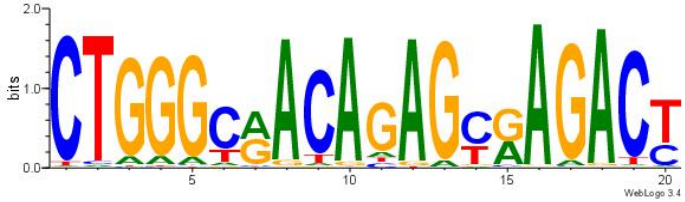

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

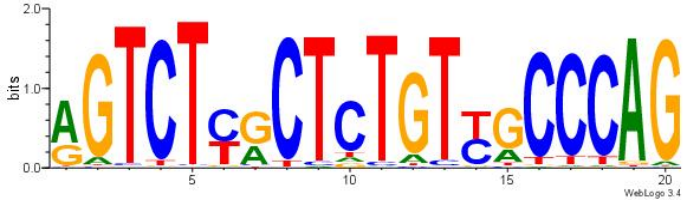

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.105012

Alignment:
ACTCCCTAGTGAGATGAACC
---ACAGAGTGAGACTCT--

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

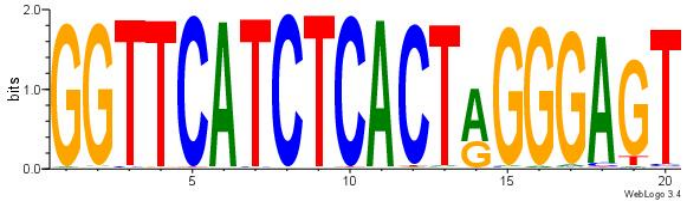

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

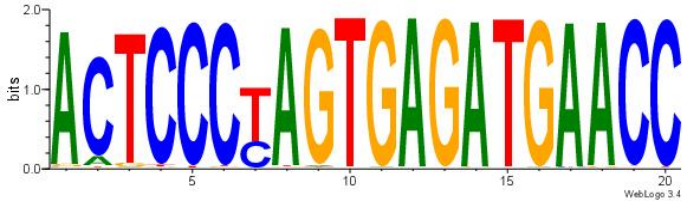

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.105236

Alignment:

```
CTGACTGGGAGACACCTCCC
-ACAGAGTGAGACTCT----
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

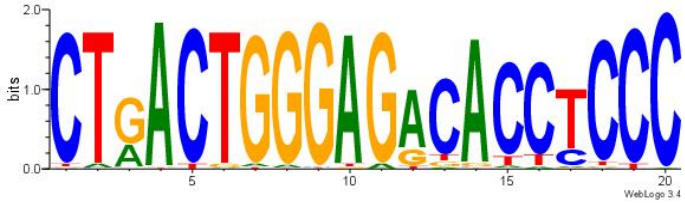

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

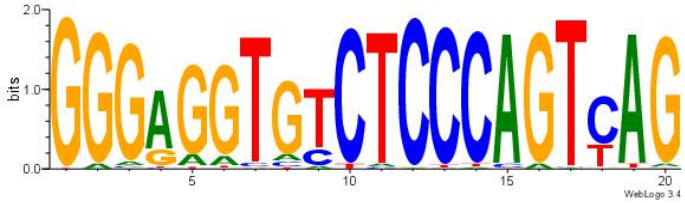

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.106082

Alignment:

```
AGCCTCCAGAACTGT
AGAGTCTCACTCTGT
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.10613

Alignment:
AGCTCMKCCTCCTGTCAGAT
-----AGAGTCTCACTCTGT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

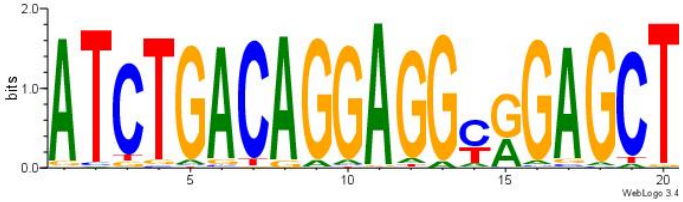

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

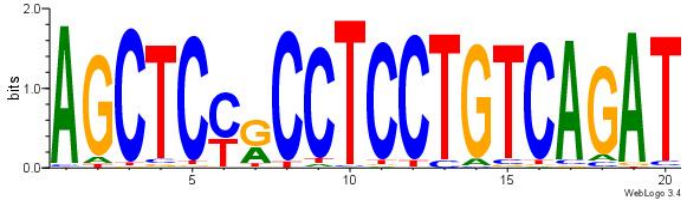

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.106474

Alignment:
GCCGGGRAGAGGCGCTCCT
-ACAGAGTGAGACTCT---

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

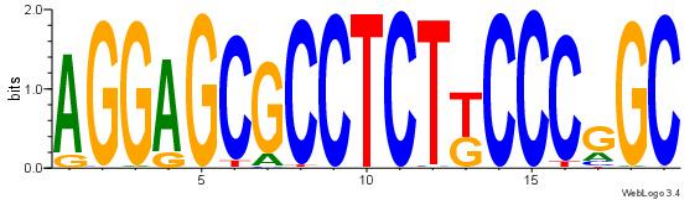

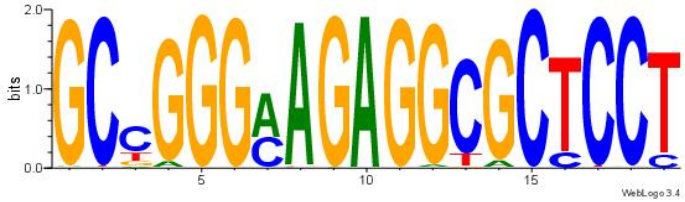

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.106479

Alignment:

```
AGGAACAGCTCCRGTCTAC
----AGAGTCTCACTCTGT
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

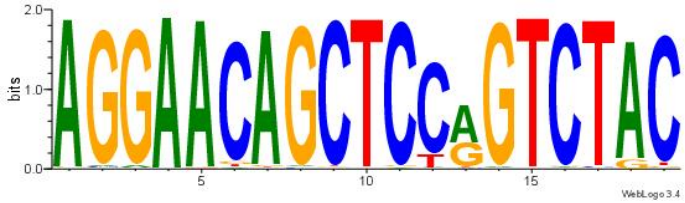

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

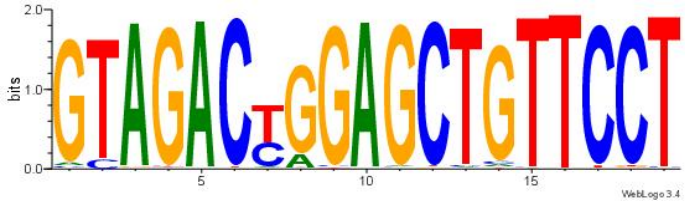

Dataset #: 1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.107153

Alignment:

```
ACAGGCTTTGTGTGAGCA
AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

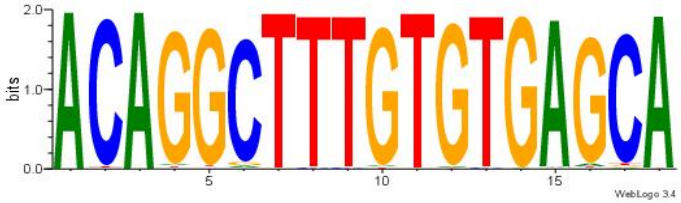

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

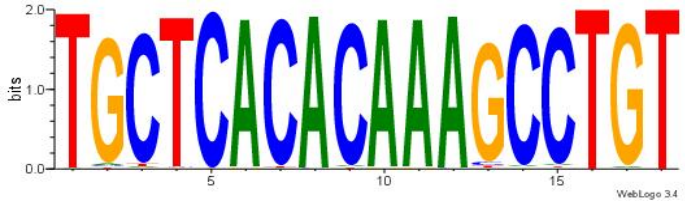

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15

Similarity score: 0.107833

Alignment:
CACCAGACTCAGGAGCCCAG
--ACAGAGTGAGACTCT---

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

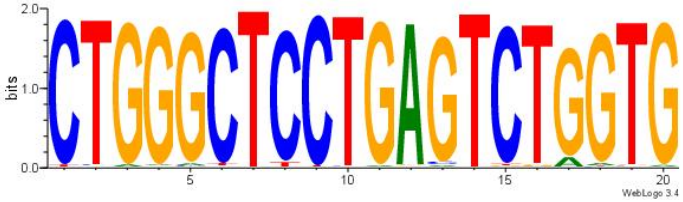

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

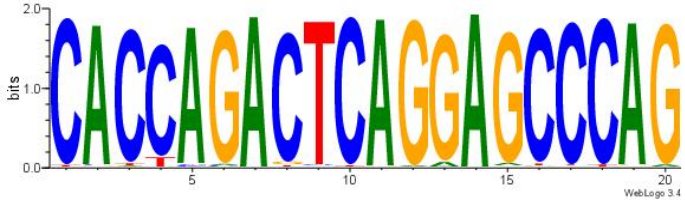

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.107897

Alignment:
AATGAGTTAAGACTTTG
-ACAGAGTGAGACTCT-

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

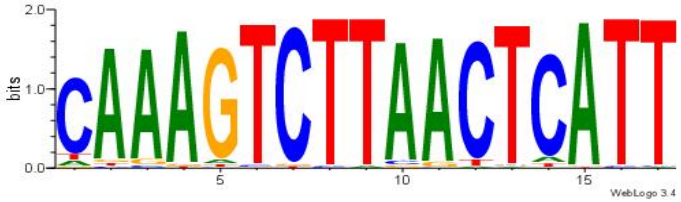

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.108855

Alignment:

```
VMATTTAKTGAGCACCTACT
--ACAGAGTGAGACTCT---
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

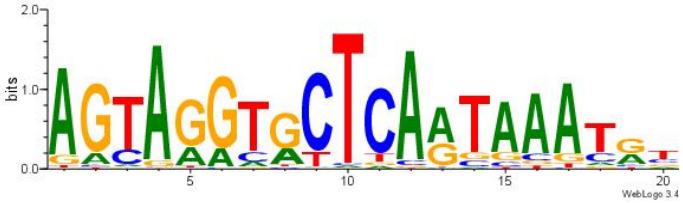

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

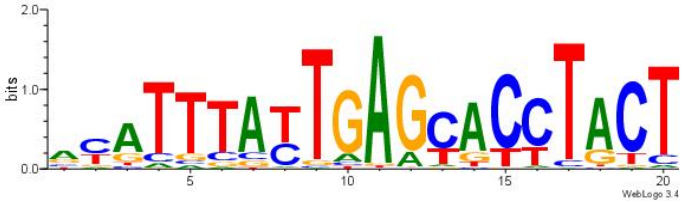

Dataset #:	1

Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.108905

Alignment:

```
AAAGAGAGTCAGCGAAG
ACAGAGTGAGACTCT--
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

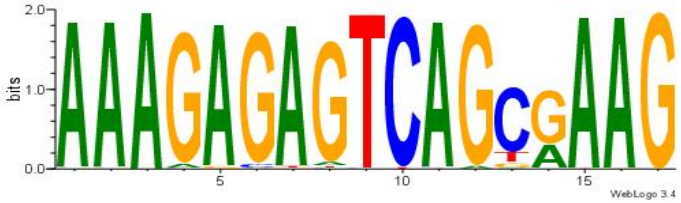

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

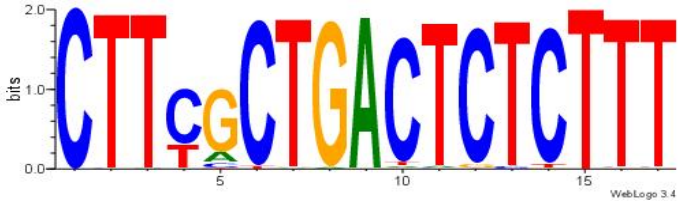

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15

Similarity score: 0.109266

Alignment:
GCTCCACCCAGTTCGAGCTT
-----ACAGAGTGAGACTCT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

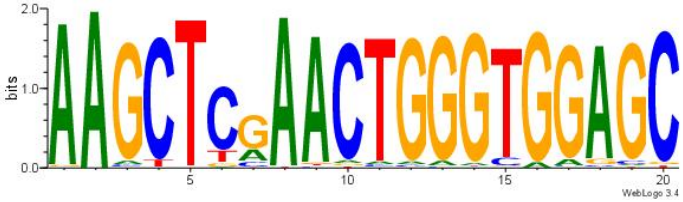

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

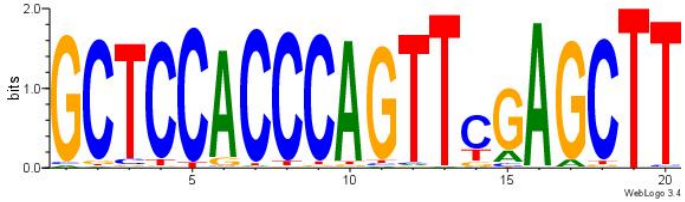

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.109864

Alignment:
GAATCCTGGGACAGCCTGT
ACAGAGTGAGACTCT----

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

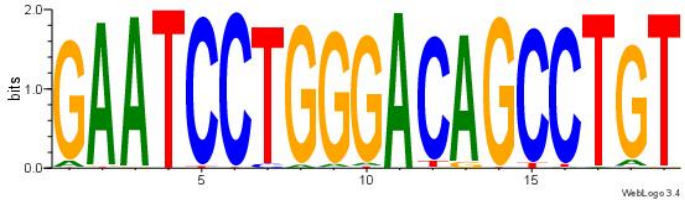

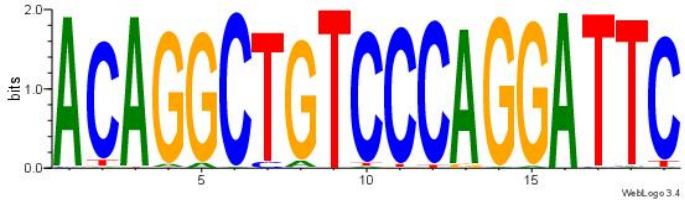

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.110249

Alignment:

```
TGTGTGTGTGTKTGTGTGT
--AGAGTCTCACTCTGT--
```

Original motif Consensus sequence: ACACACAYACACACACACA

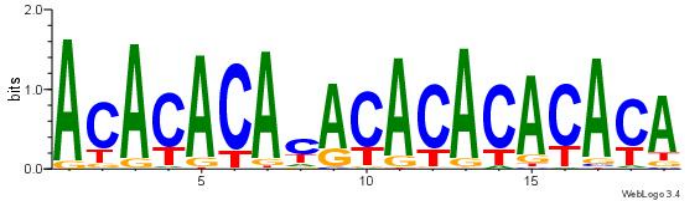

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

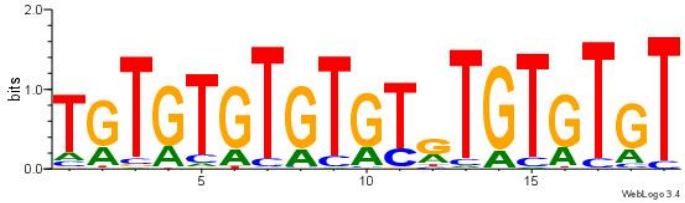

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.111723

Alignment:

```
CCGCTGCACTGTGGGAGCCC
ACAGAGTGAGACTCT-----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

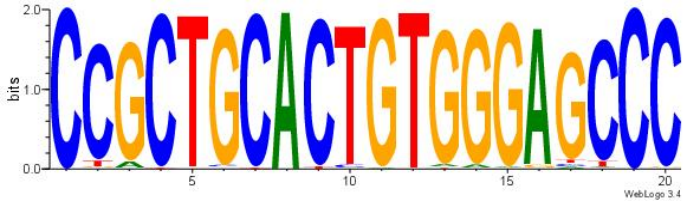

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

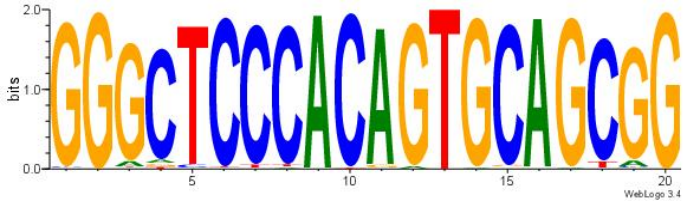

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15

Similarity score: 0.111751

Alignment:
AAGGAACAAACTCCRGACAC
-AGAGTCTCACTCTGT----

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

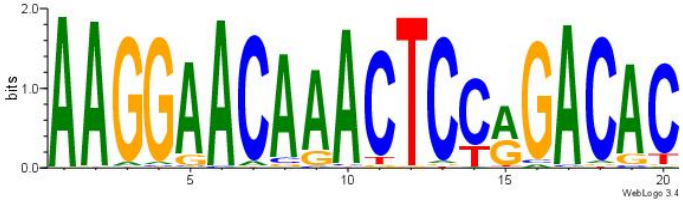

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

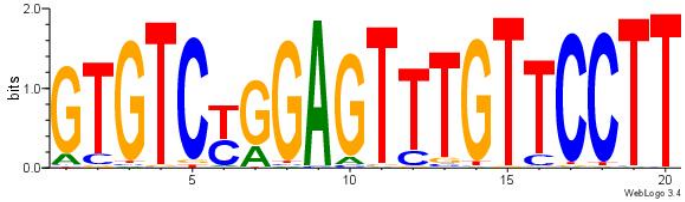

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.111957

Alignment:
TGHCCTGCKCCCACTGTCT
--AGAGTCTCACTCTGT--

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

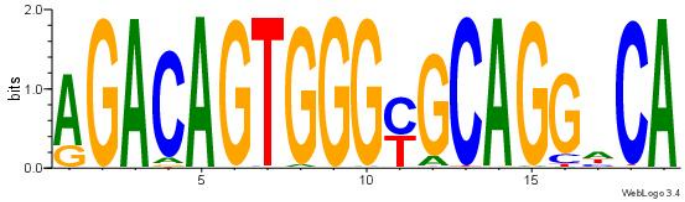

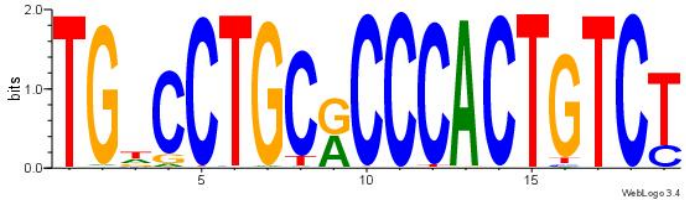

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.112573

Alignment:

```
TCAGGAGTGAAGCTGC
-ACAGAGTGAGACTCT
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

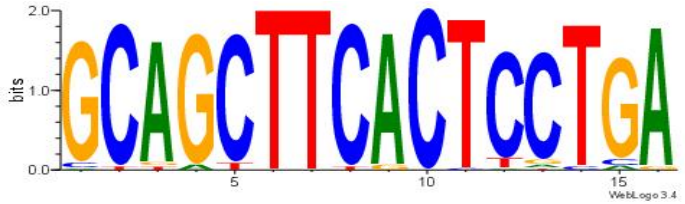

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

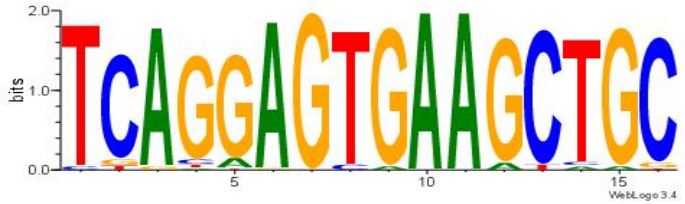

Dataset #:	1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.113015

Alignment:

```
MCCYGGCWSMGASGSTCCT
-ACAGAGTGAGACTCT---
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

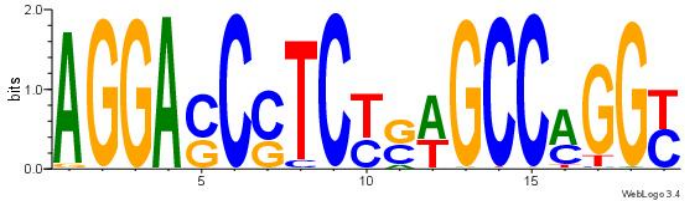

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

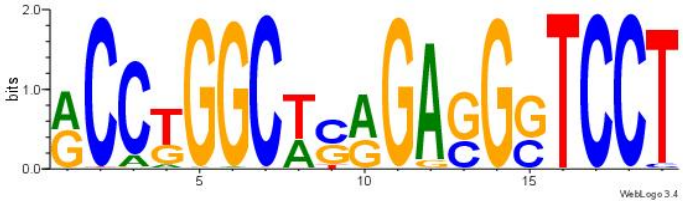

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.113723

Alignment:
TCTGGAGTGGACCTCCAGCA
-ACAGAGTGAGACTCT----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

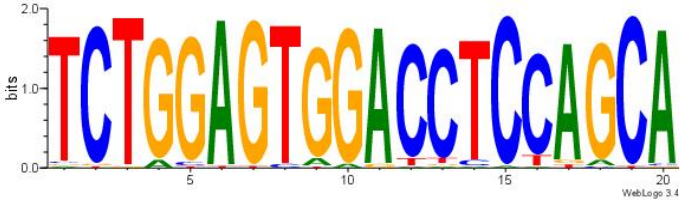

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

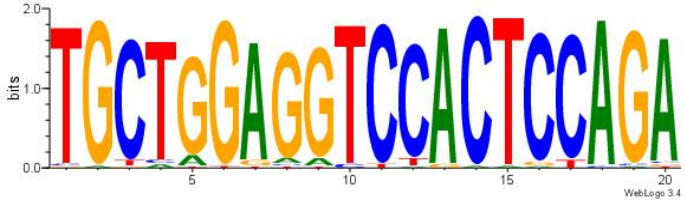

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.113853

Alignment:
GTAACACTCACCGCGARGGT
ACAGAGTGAGACTCT-----

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

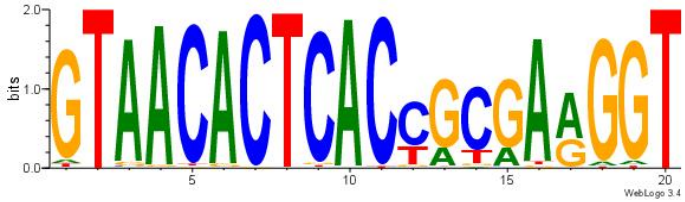

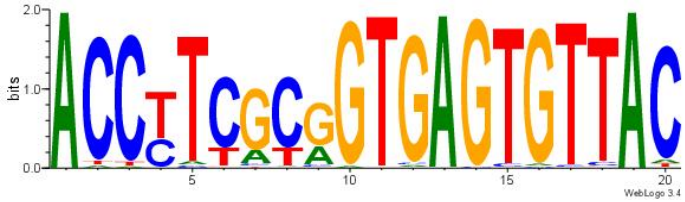

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.114552

Alignment:

```
CCCAAATCTCATSTTGAAT
--AGAGTCTCACTCTGT--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

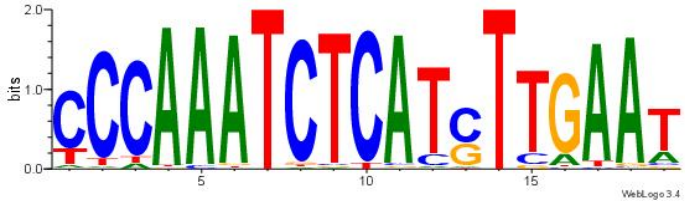

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

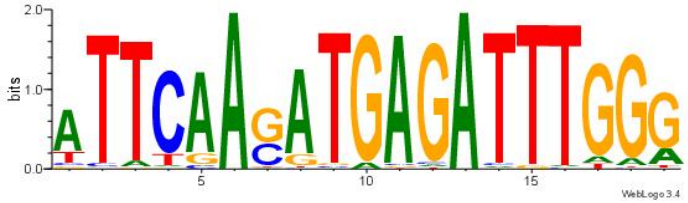

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.114664

Alignment:

```
CGAGCCCTGCCCCGCGG
AGAGTCTCACTCTGT--
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

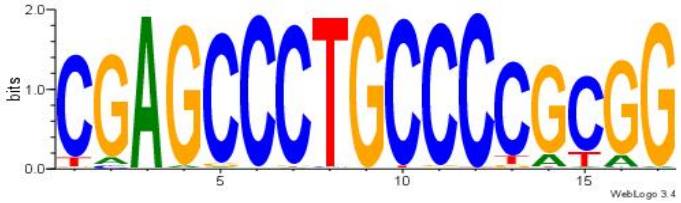

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

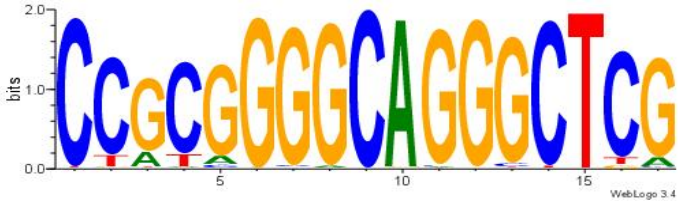

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15

Similarity score: 0.11521

Alignment:
TTCAMTCATGATTTGGCTCT
-----ACAGAGTGAGACTCT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

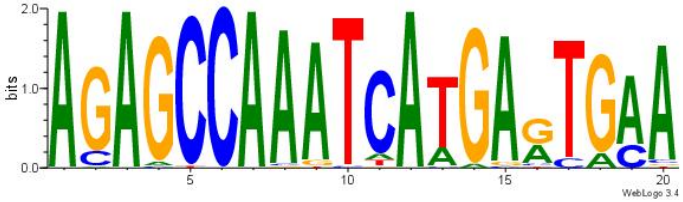

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

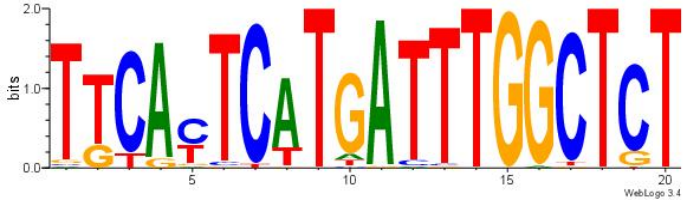

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.115242

Alignment:
CTCCTGCCTCAGCCTCCCRA
---ACAGAGTGAGACTCT--

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

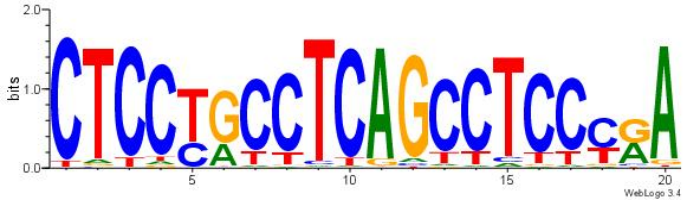

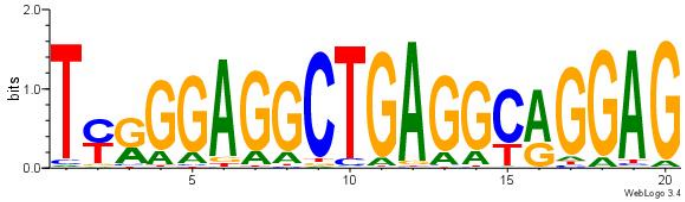

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.115383

Alignment:

```
GCCAATTTCTCCCATTTGGA
--AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

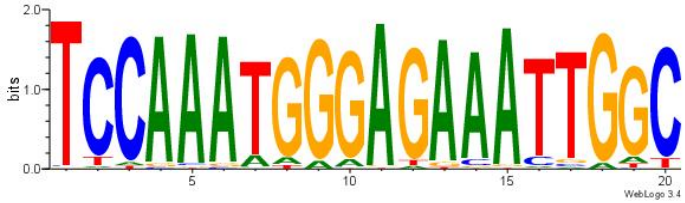

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

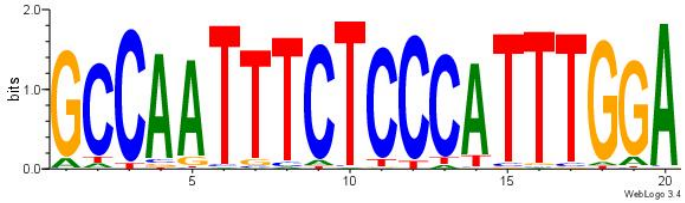

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.115418

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-----ACAGAGTGAGACTCT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

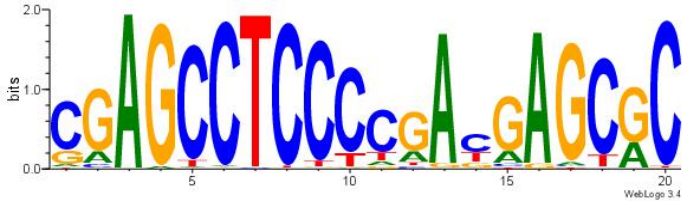

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

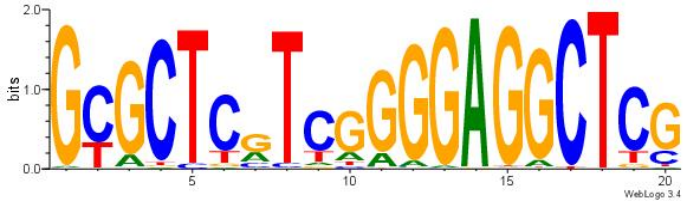

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15

Similarity score: 0.116043

Alignment:
TAGATAATAGCTCCAGCTTT
-AGAGTCTCACTCTGT----

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

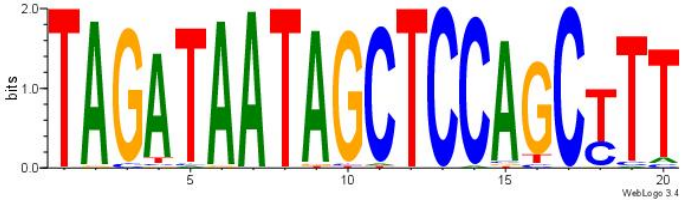

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

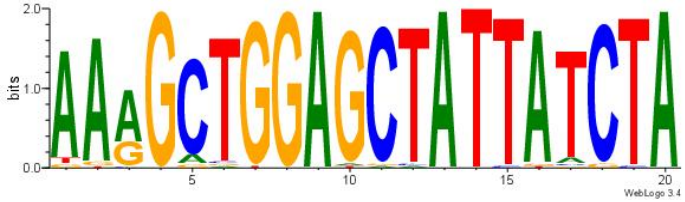

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.116136

Alignment:
ATGTGGAGGTGGAAGACAGT
-----ACAGAGTGAGACTCT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

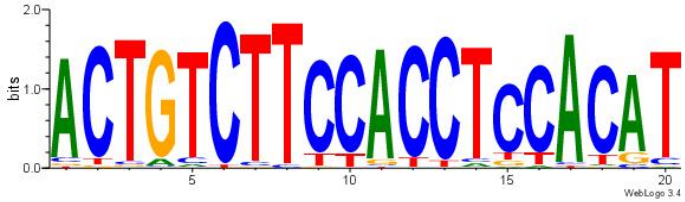

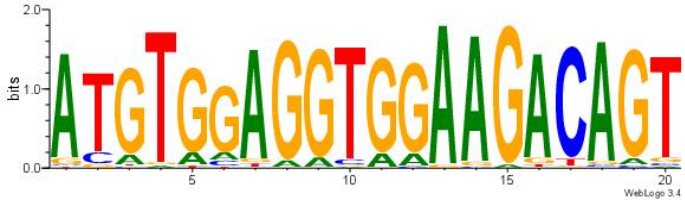

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.11692

Alignment:

```
AAGAGGTTTAATTGRCTCA
-AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

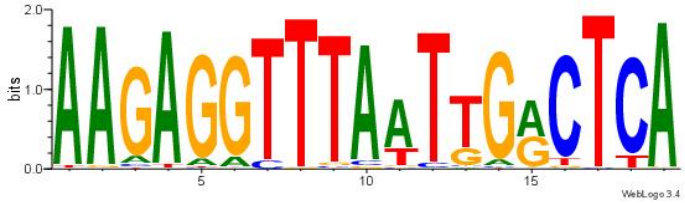

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

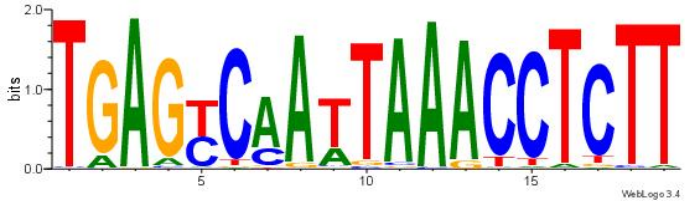

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.116979

Alignment:

```
GACATGAGCTGGCGCTTG
-ACAGAGTGAGACTCT--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

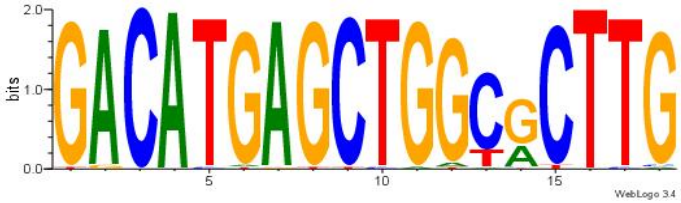

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

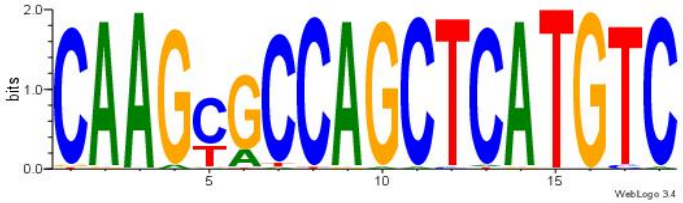

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.117231

Alignment:
ATAAAAACTTGCTGGTTTT
--AGAGTCTCACTCTGT--

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

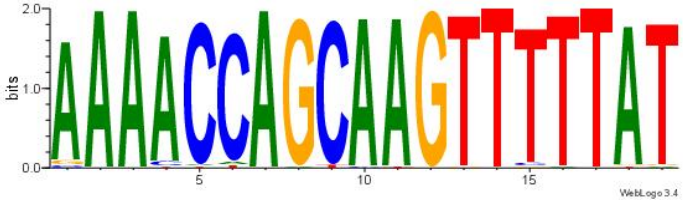

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

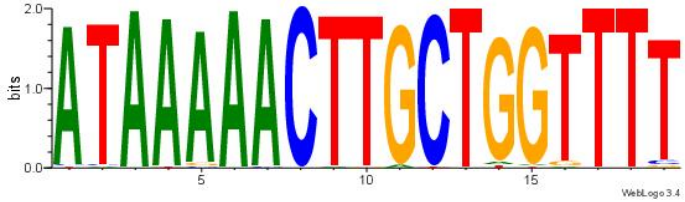

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.118162

Alignment:
ACCTGGAAAATCGGGTCACT
ACAGAGTGAGACTCT-----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

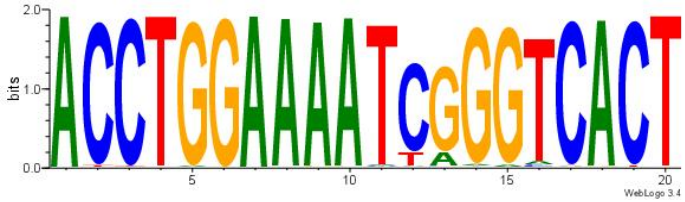

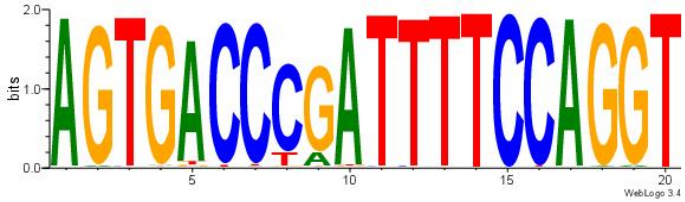

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.118188

Alignment:

```
AACAACASACACTGGGGCCT
-----AGAGTCTCACTCTGT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

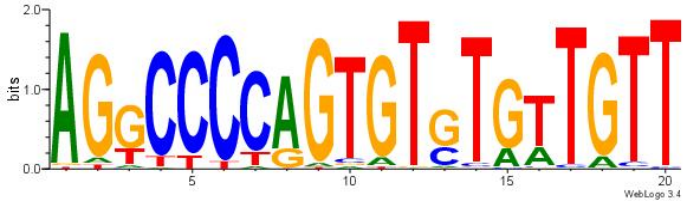

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

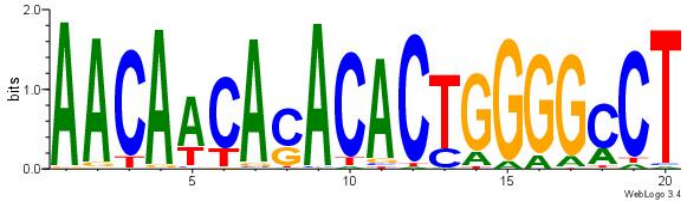

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.118401

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-ACAGAGTGAGACTCT----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

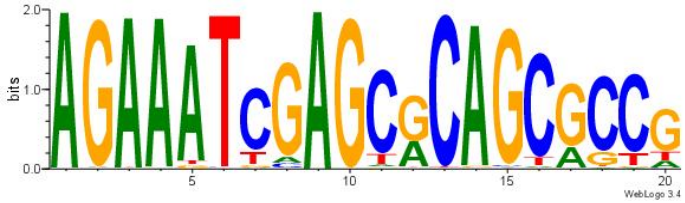

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

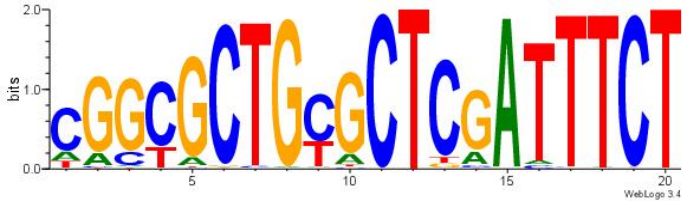

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.118609

Alignment:
CTCARGTGATCCTCC
ACAGAGTGAGACTCT

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

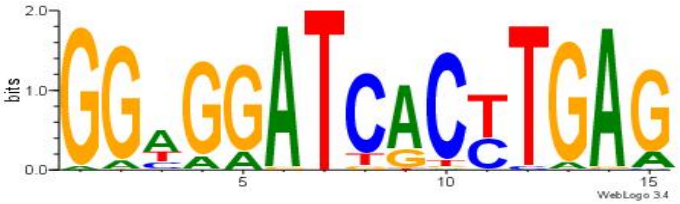

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.118938

Alignment:
AATTAAAAGACACAGACTG
---ACAGAGTGAGACTCT-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

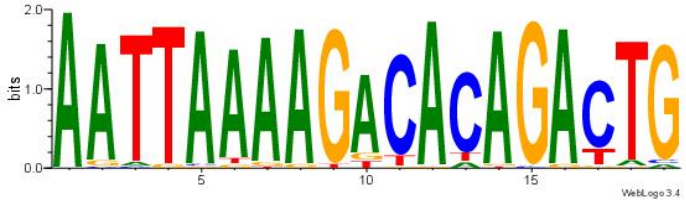

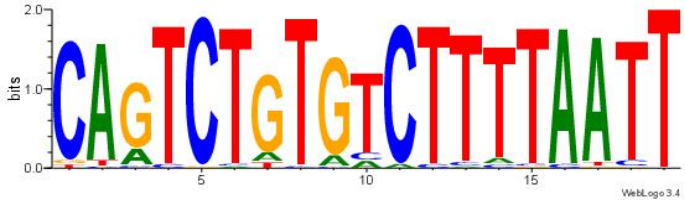

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.118958

Alignment:

```
ATGGAATAYTATTCAGCCAT
--AGAGTCTCACTCTGT---
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

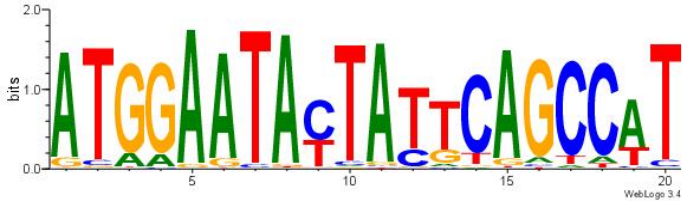

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

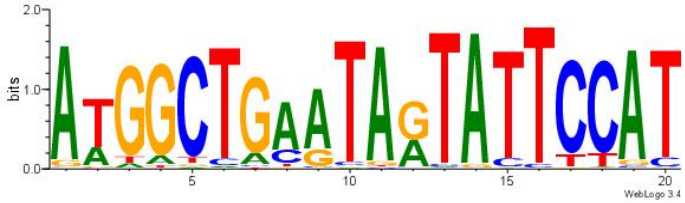

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.119936

Alignment:

```
AAAATCACAAGCATTCCTAT
AGAGTCTCACTCTGT-----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

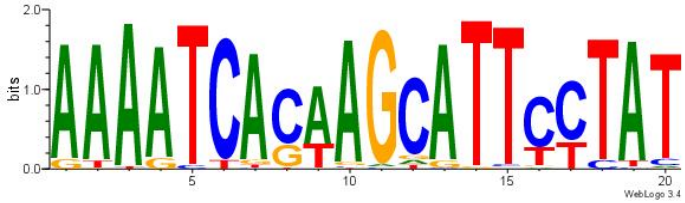

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

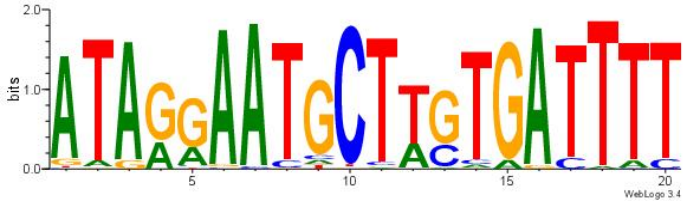

Dataset #: 1 Motif ID: 254 Motif name: Motif 254

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

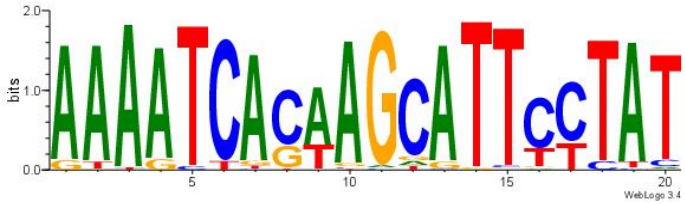

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

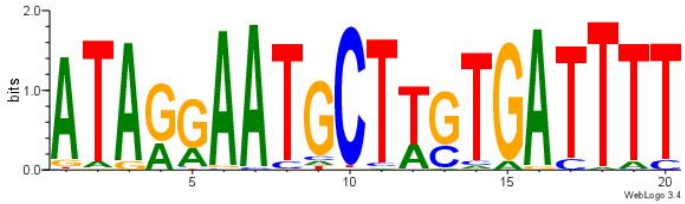

Best Matches for Motif ID 254 (Highest to Lowest)

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113683

Alignment:
AAAATGTGGTAYATAYAYAC
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

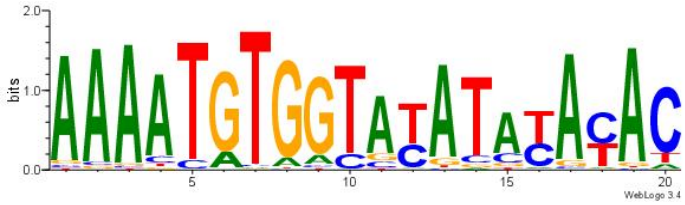

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

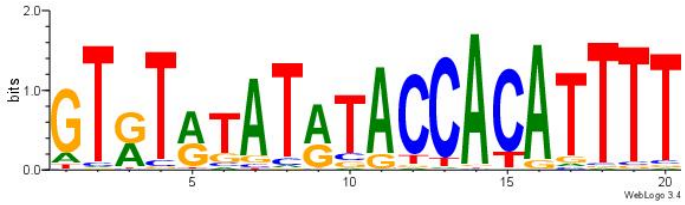

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121683

Alignment:
AGGCCCCAGTGTSTGTTGTT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

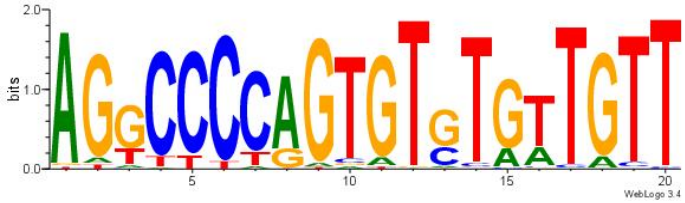

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

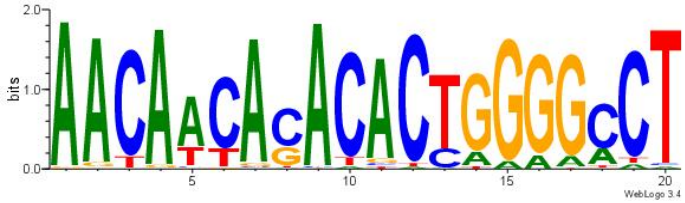

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124533

Alignment:
AGTGAGAACATRYRRTRTTT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

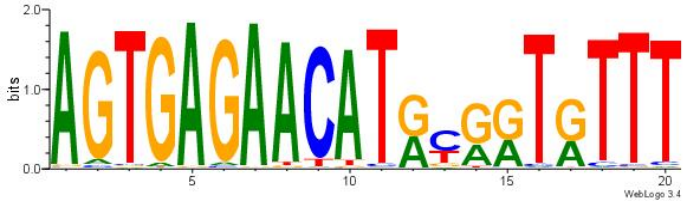

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

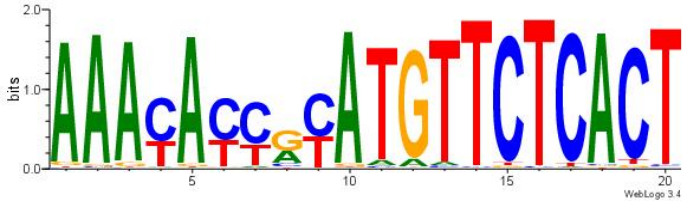

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128088

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

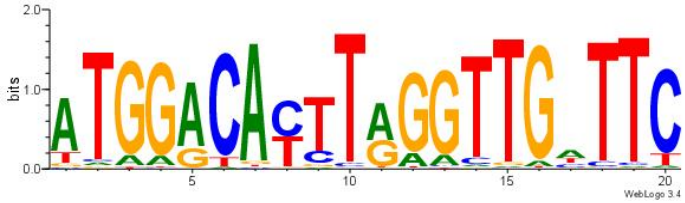

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

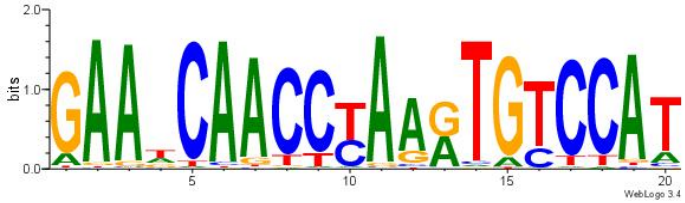

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128511

Alignment:
TACCTGAGACTGGGTAATTT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

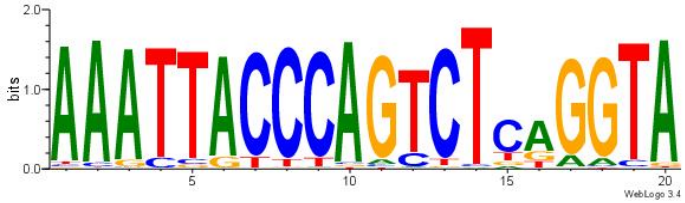

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

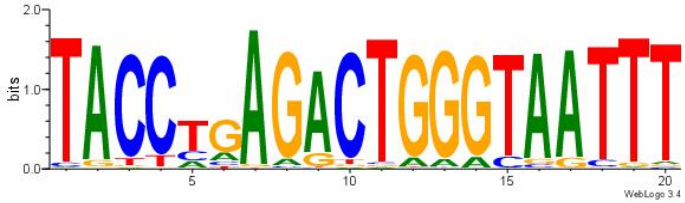

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.129207

Alignment:
TAAAAGACTACAWATTGGGT
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

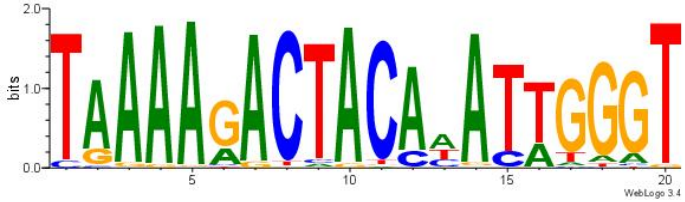

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

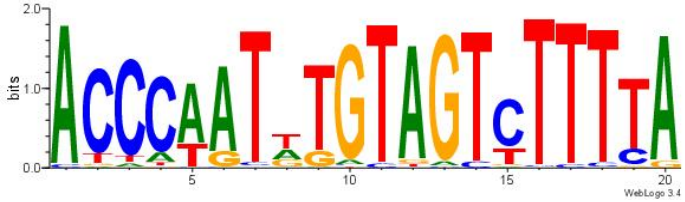

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132739

Alignment:
GCAAAKGACATGATYTCATT
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

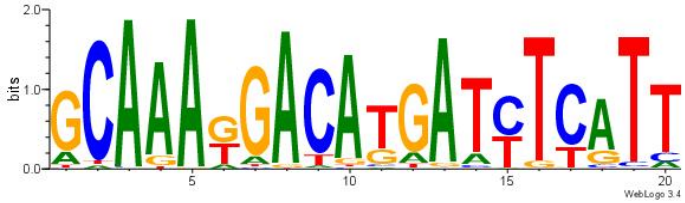

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

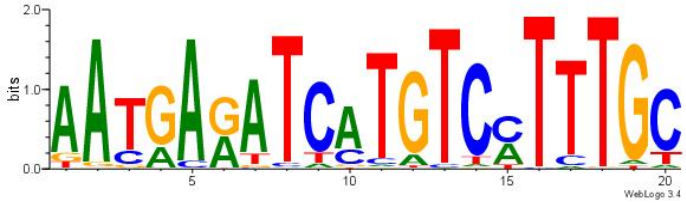

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134736

Alignment:

```
GTAACACTCACCGCGARGGT
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

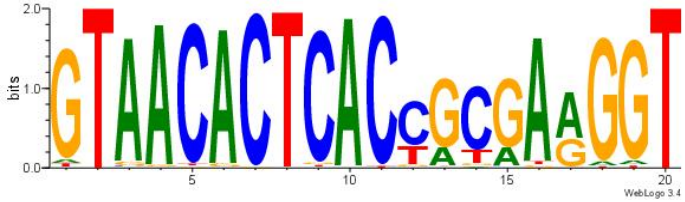

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

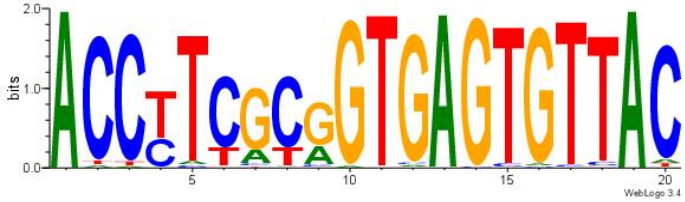

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135336

Alignment:
ATGTGGAGGTGGAAGACAGT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

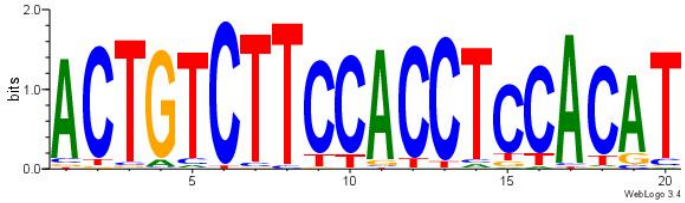

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

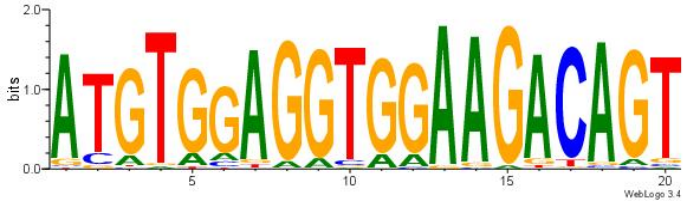

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.135949

Alignment:
AAATTAGGCCAATTAATAAC
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

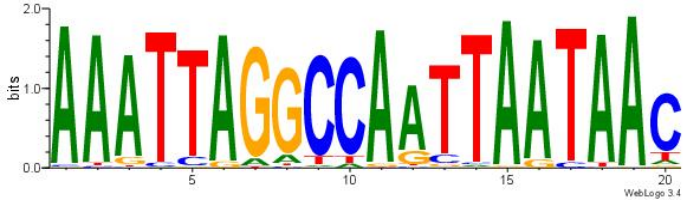

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13647

Alignment:
KKCACCTTGATCTTGGACTT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

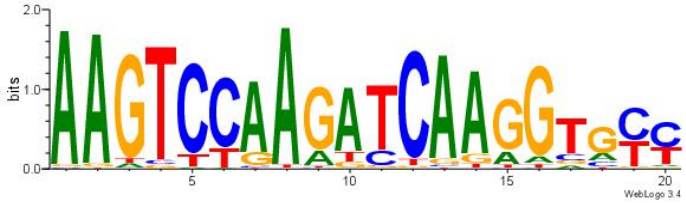

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

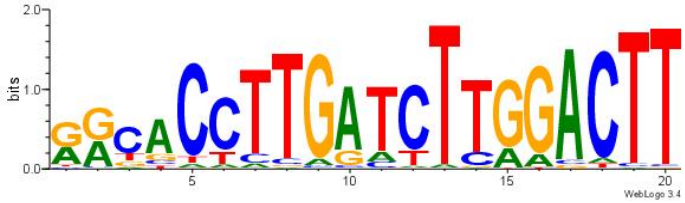

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136587

Alignment:

```
GGGATTGTAAATACACCAAT
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

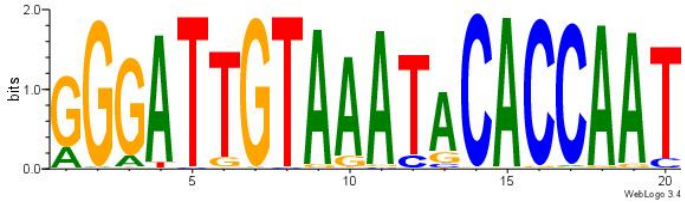

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136908

Alignment:
CTAGACATAAAGGTTCTCCA
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

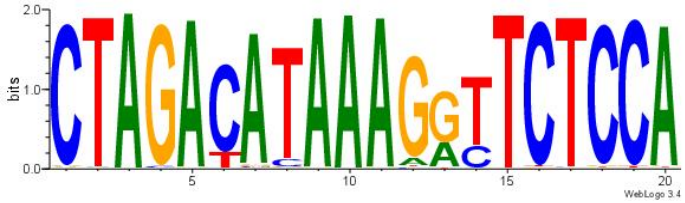

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

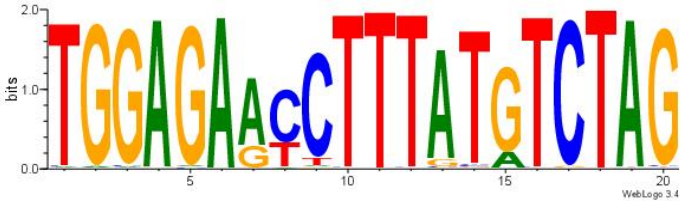

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.140037

Alignment:
AGCTCMKCCTCCTGTCAGAT
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

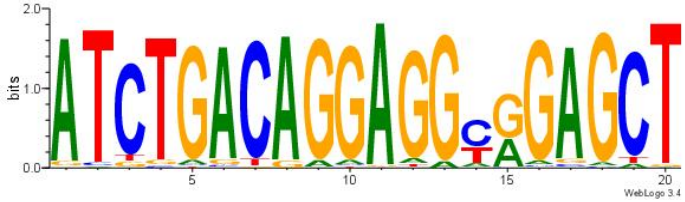

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

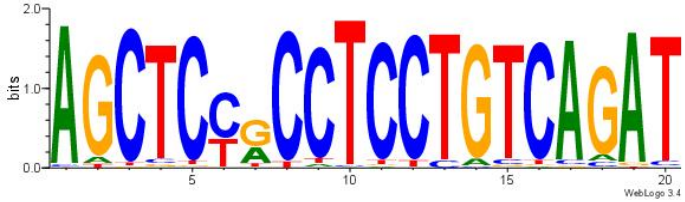

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142429

Alignment:
GCTGGAGTGCAGTGGCRYGA
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

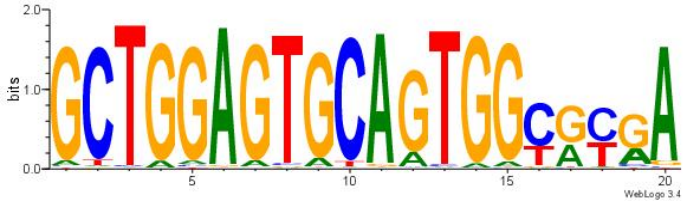

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

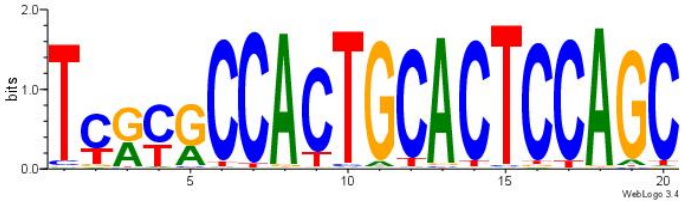

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144677

Alignment:

```
CMTAGYACAGTGCCTGGCAC
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

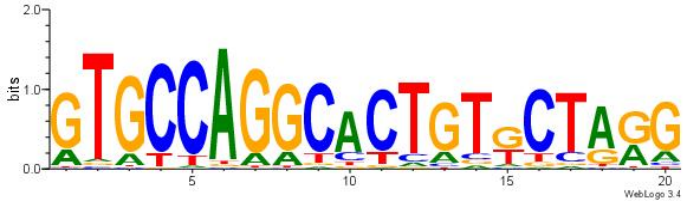

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

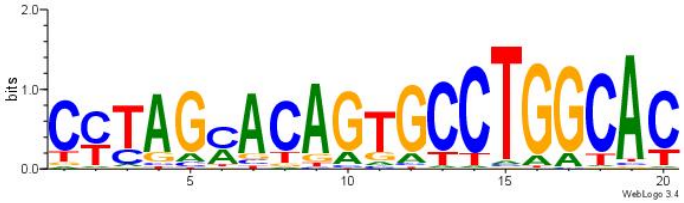

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144974

Alignment:

```
TTGGTAGGATCCGTGATGCC
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

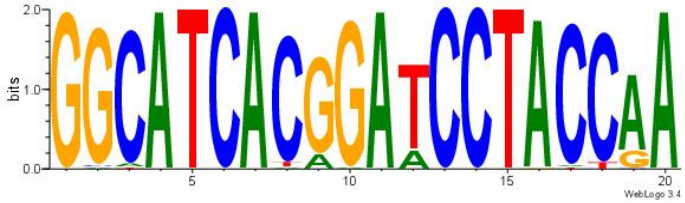

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

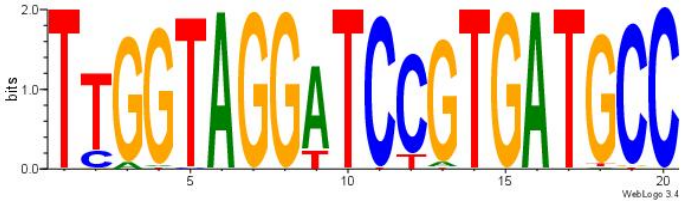

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.145467

Alignment:
ATTGATMKCCAGGGTTGATT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

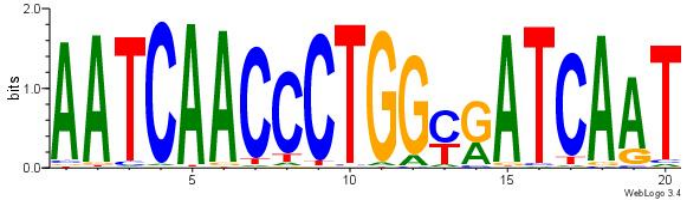

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

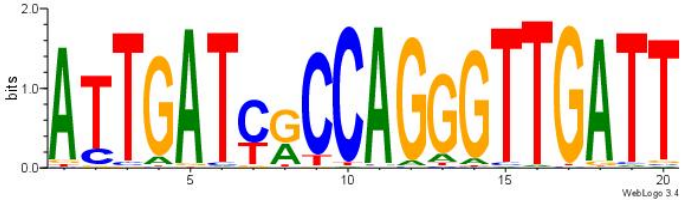

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146568

Alignment:
AAAGCTGGAGCTATTATCTA
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

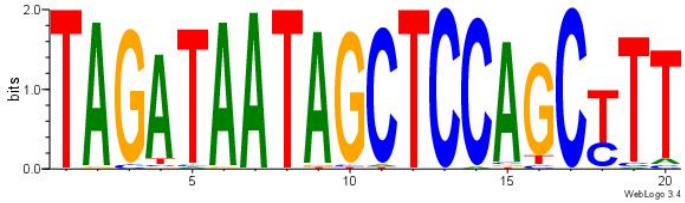

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

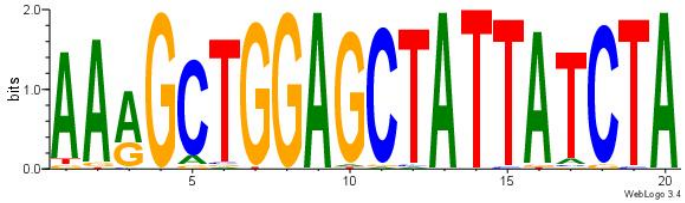

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146965

Alignment:

```
GCACATGTAYCCYAGAACTT
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

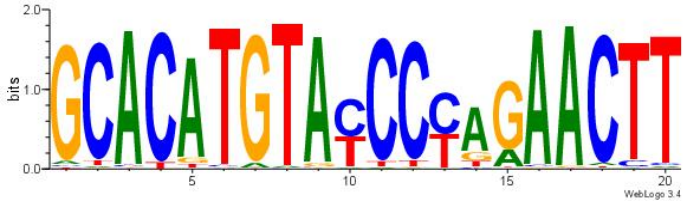

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

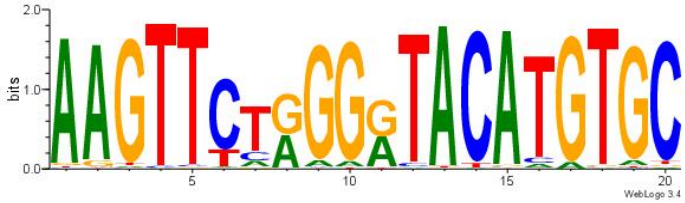

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147153

Alignment:
ACTTTGGACTGTGGACTTTT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

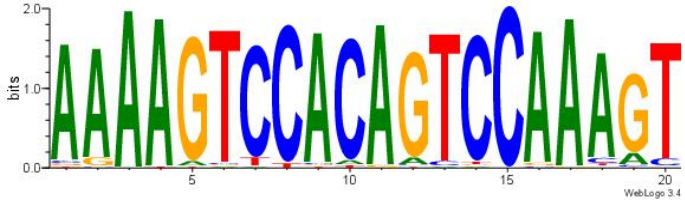

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

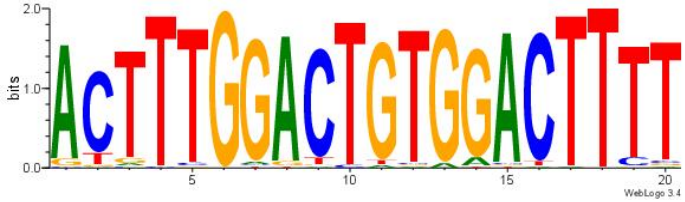

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.147204

Alignment:
MGTCTMKCTCTGTKGCCCAG
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

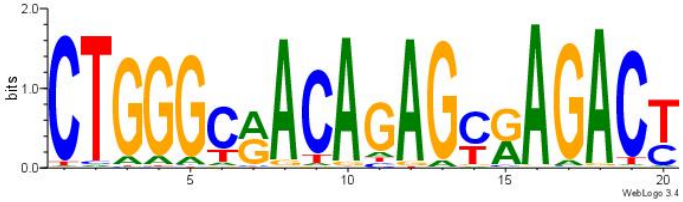

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

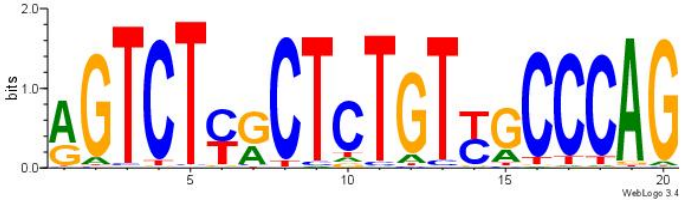

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148918

Alignment:
CCTGCCATTGCYSAGGCTTG
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

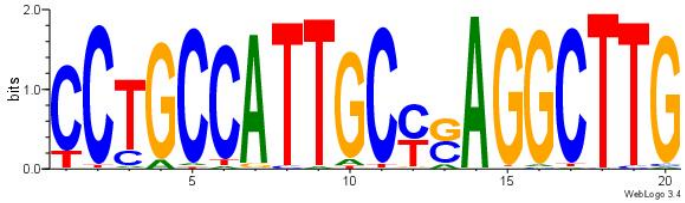

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

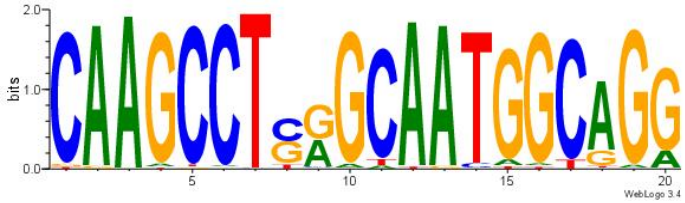

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149289

Alignment:

```
GACAGGAGATTAACACTGAG
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

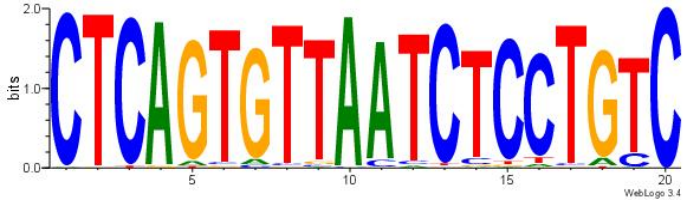

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

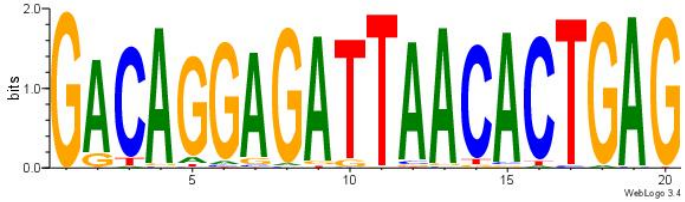

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149587

Alignment:
AGTAGGTGCTCARTAAATRB
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

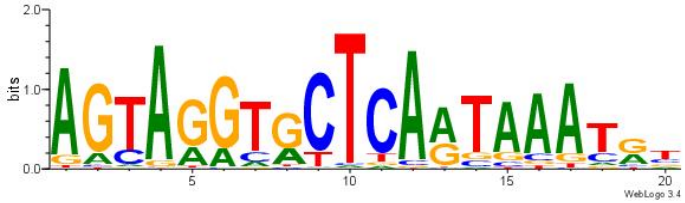

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

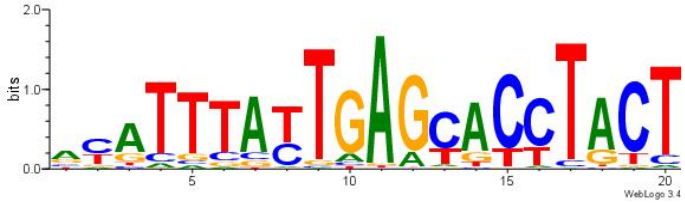

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.149841

Alignment:
AGGTCCTTCAGGAGGTATTC
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

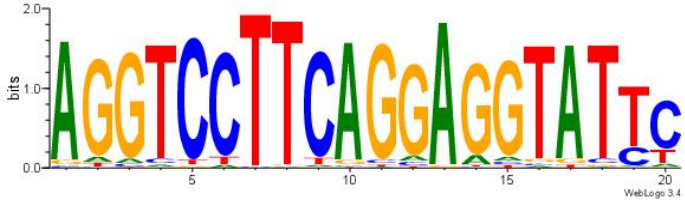

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

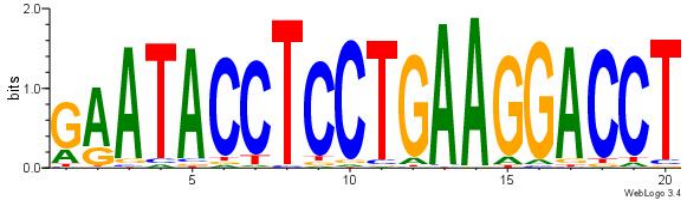

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150579

Alignment:
AWTKKTGGTTKCCAGKGGCT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

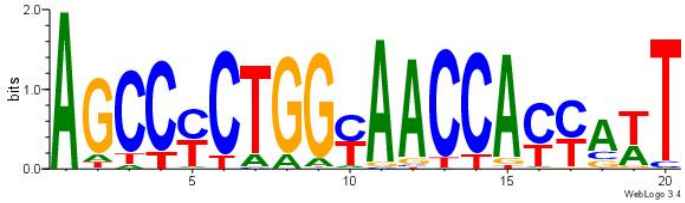

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

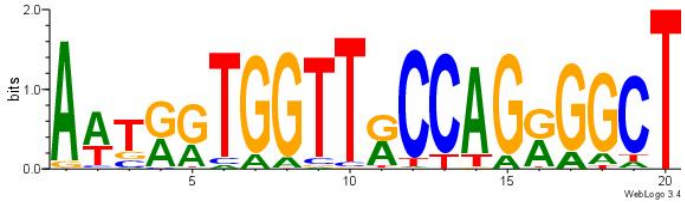

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151304

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

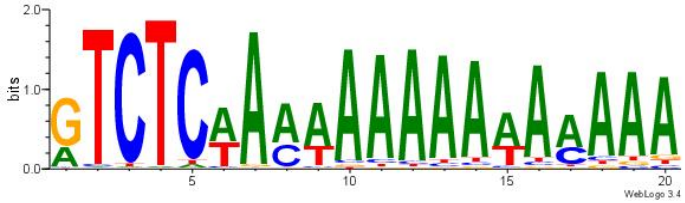

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

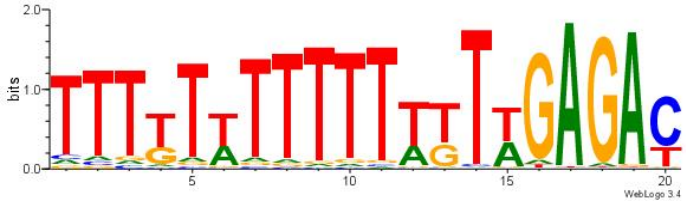

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151332

Alignment:
ACACATCACAAAGCAGTTTC
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

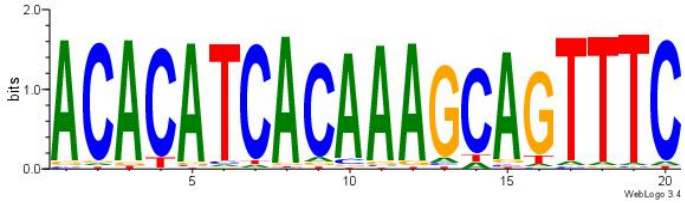

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

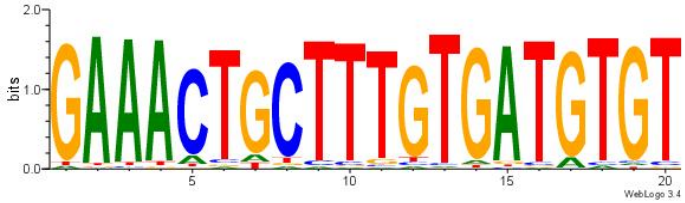

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.152287

Alignment:
AGTGACCCGATTTTCCAGGT
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

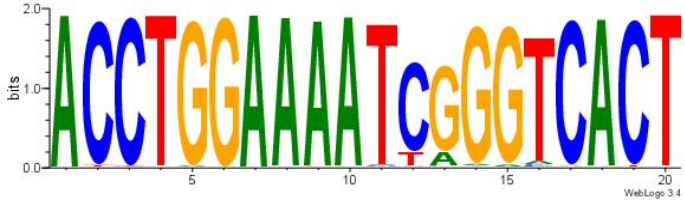

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

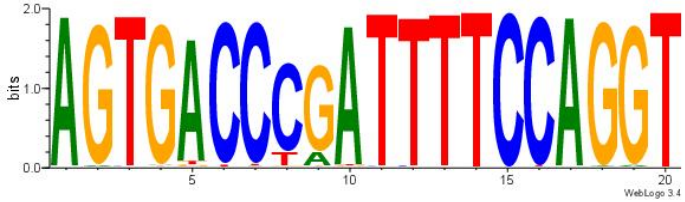

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152306

Alignment:
CAACATGGATGRARCTGGAG
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

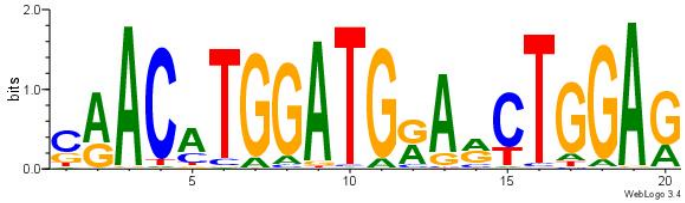

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

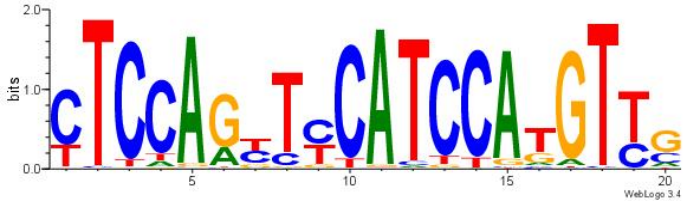

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153621

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

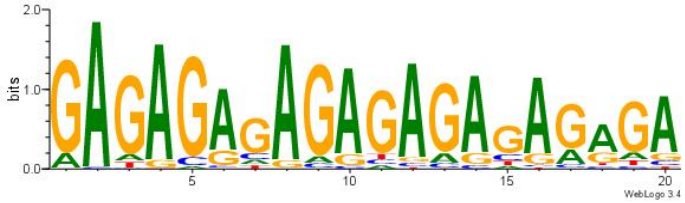

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

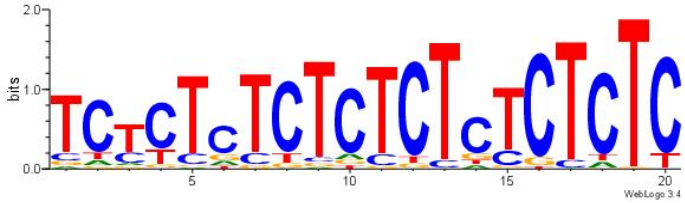

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155172

Alignment:

```
ATGGAATAYTATTCAGCCAT
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

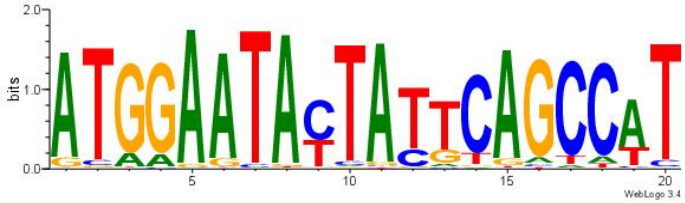

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

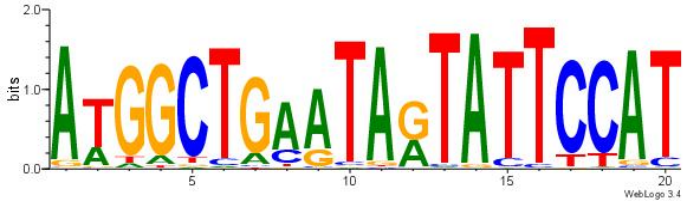

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.156348

Alignment:
GAAGGCAGCTAAGGCCCGGY
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

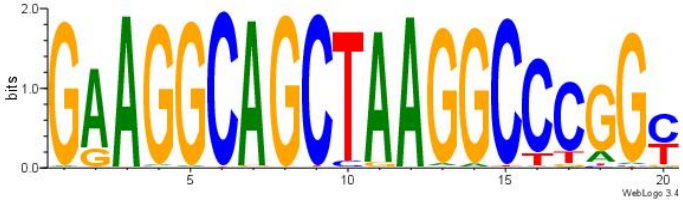

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

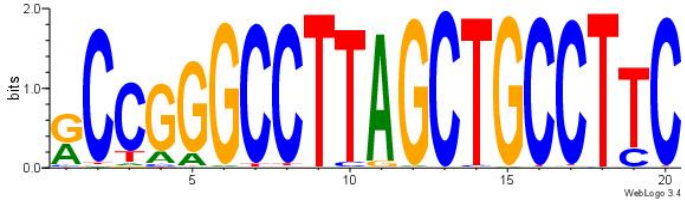

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156726

Alignment:
ATGATCCAGCAATYCCACTH
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

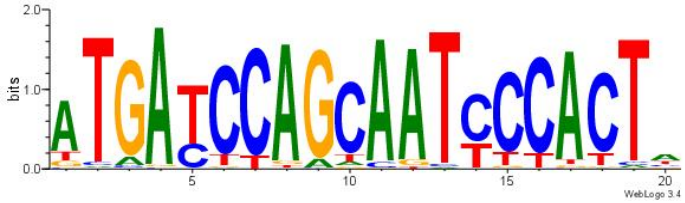

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

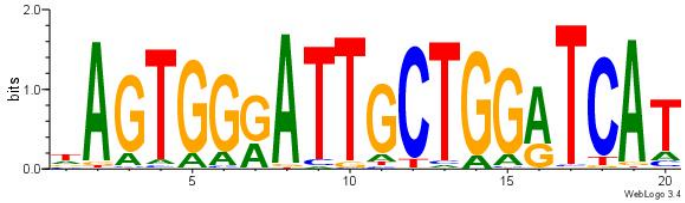

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15842

Alignment:

```
GGATTTMKGACTTGCATGGG
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

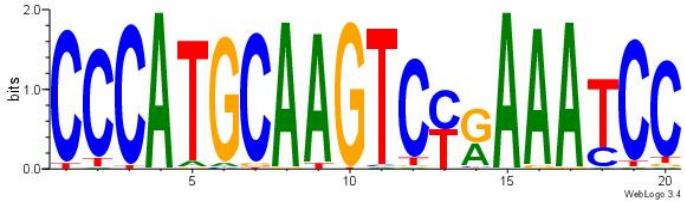

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

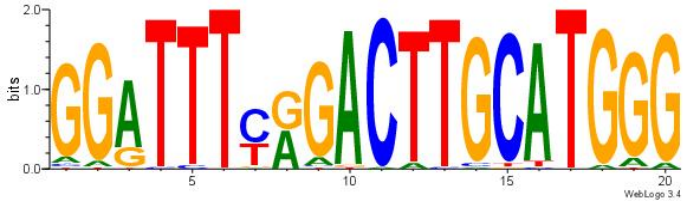

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159135

Alignment:
CAGGTGGTKTTTGGTTACAT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

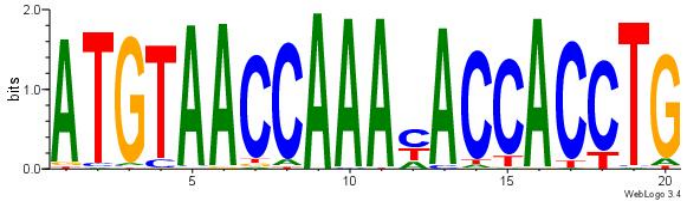

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

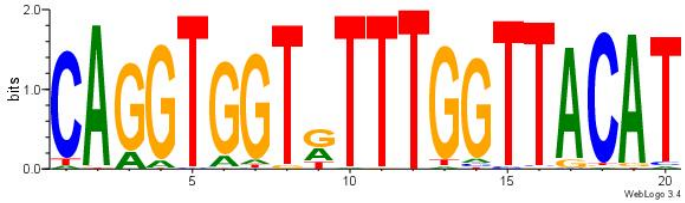

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.159227

Alignment:
TYTGTCMTTTTGTGACTGGC
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

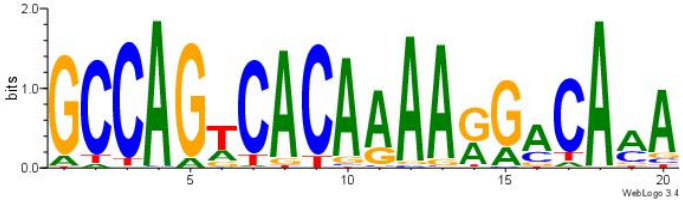

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

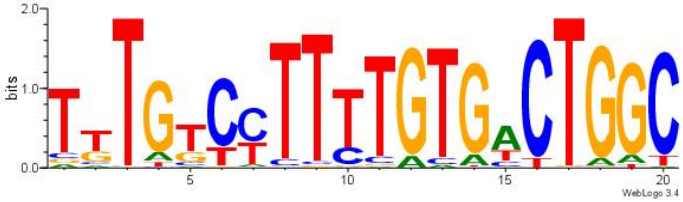

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159671

Alignment:
AGAGCCAAATCATGARTGAA
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

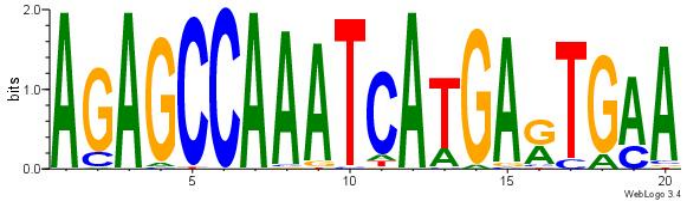

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

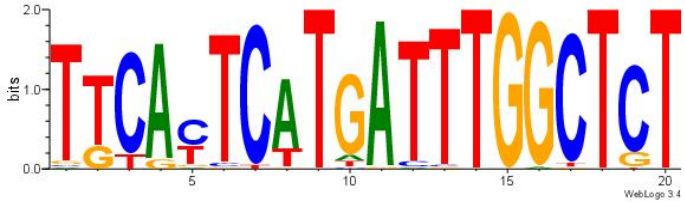

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159896

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

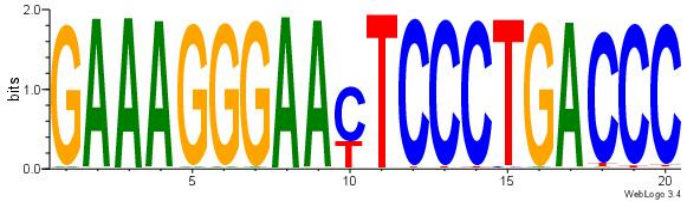

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

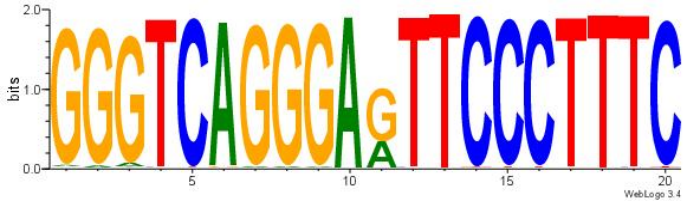

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159973

Alignment:
TAATTTTATGTGTCAACTTG
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

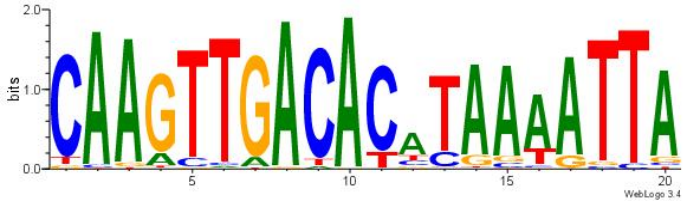

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

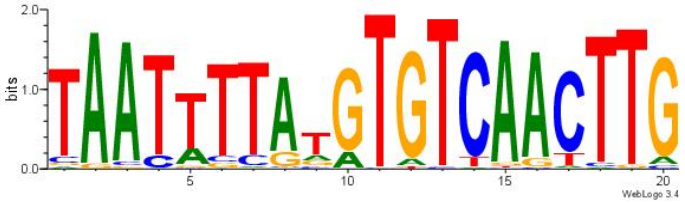

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.160109

Alignment:
AAGCTGAGGGAGCCGGCTCC
AAAATCACAAGCATTCCTAT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

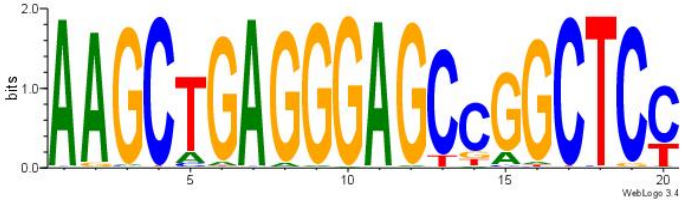

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

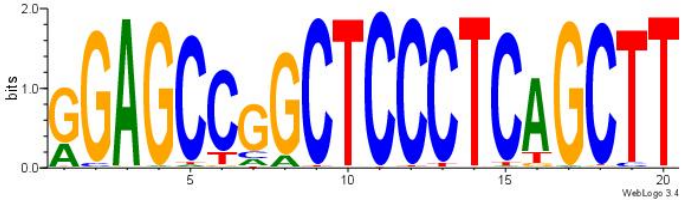

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160354

Alignment:
CAGCTACTCKTATACCCTTG
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

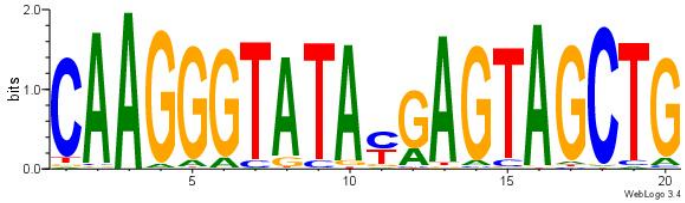

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

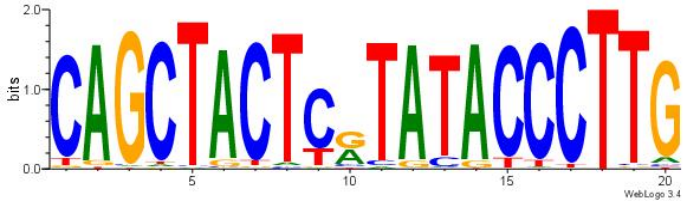

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16138

Alignment:

```
AGCTCCCAGCGTGAGCGACG
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

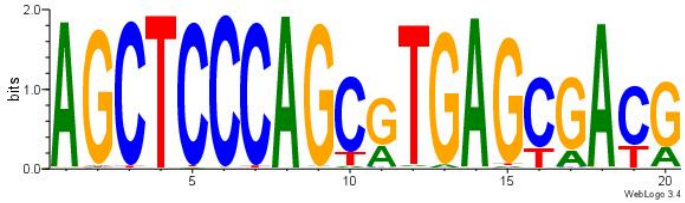

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

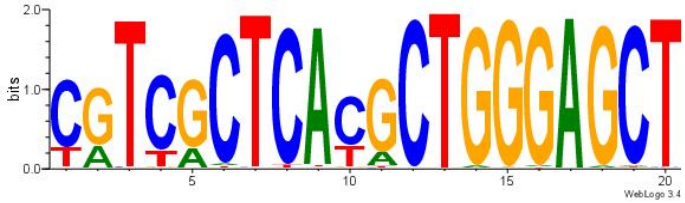

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161617

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

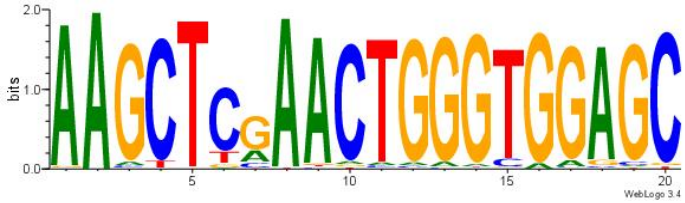

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

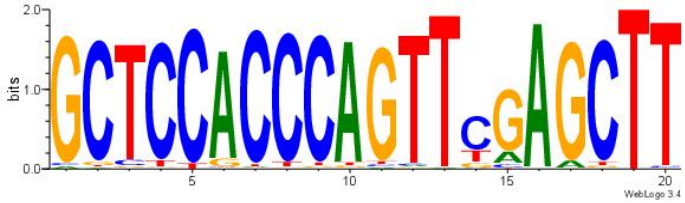

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.162107

Alignment:
GCCKGGMKCMGTGGCTCAKG
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

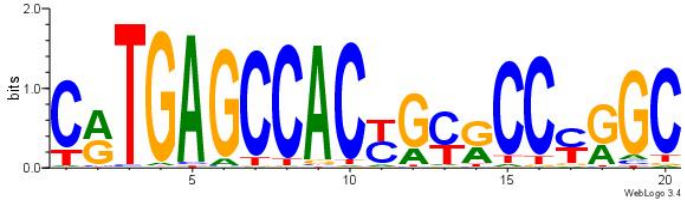

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

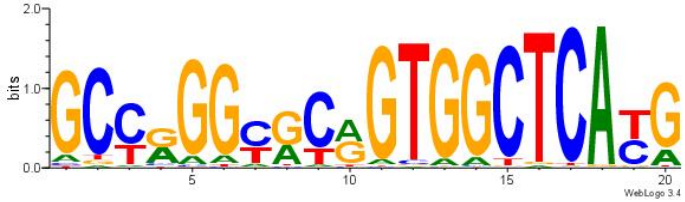

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162756

Alignment:
ATCRCTTGAGSYCAGGAGKT
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

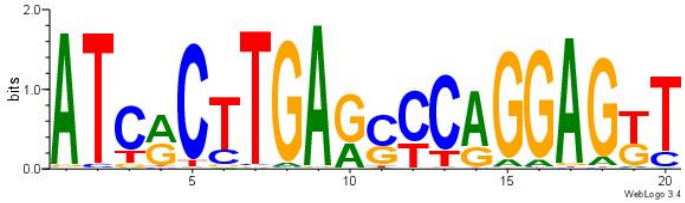

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

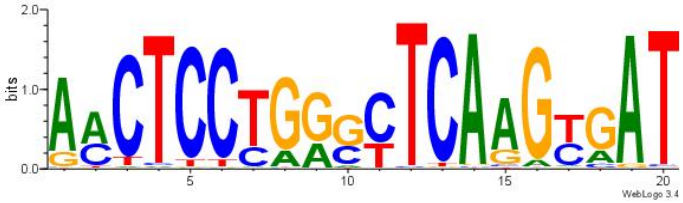

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163357

Alignment:

```
MGGGATATAATCTCCTGGTG
ATAGGAATGCTTGTGATTTT
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

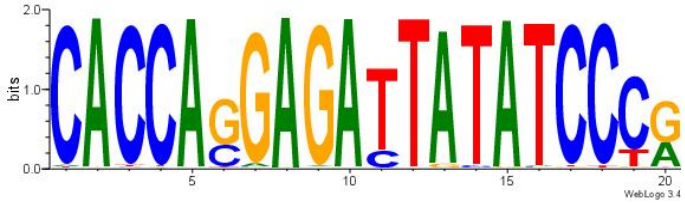

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

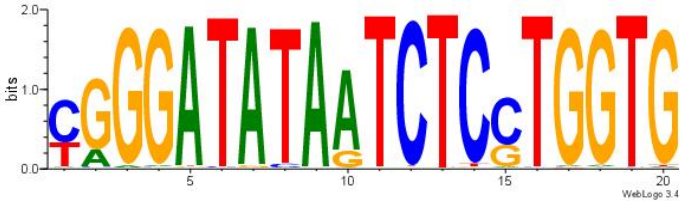

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163429

Alignment:

```
TWTACCTATGTAACAAACCT
AAAATCACAAGCATTCCTAT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

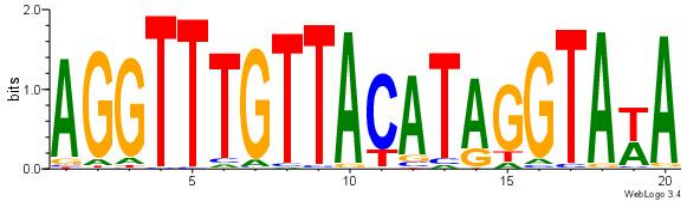

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

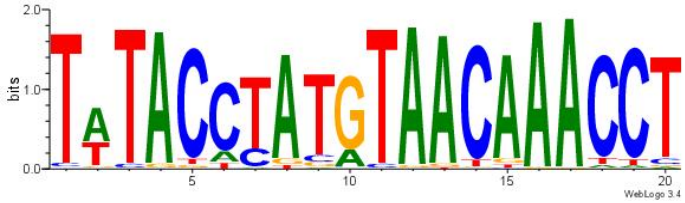

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.163612

Alignment:
CCACCACAGCTCAAGGAGGC
ATAGGAATGCTTGTGATTTT

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

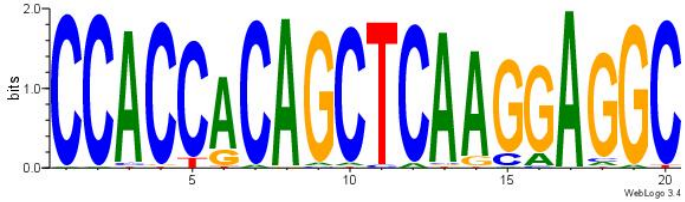

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

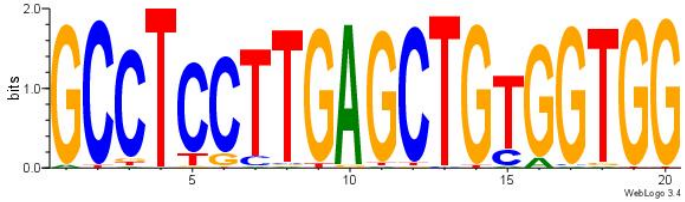

Dataset #: 1 Motif ID: 255 Motif name: Motif 255

Original motif Consensus sequence: CTGCTATAACAAA

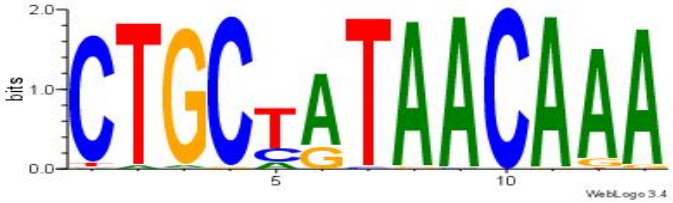

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

Best Matches for Motif ID 255 (Highest to Lowest)

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0686391

Alignment:

```
AGGTTTGTTACATAGGTAWA
----TTTGTTATAGCAG---
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

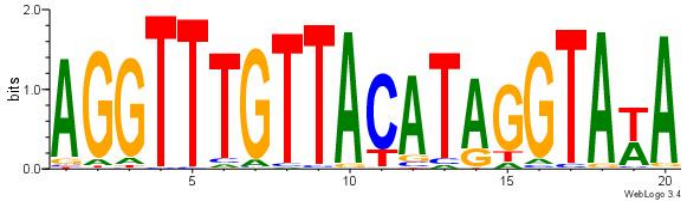

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

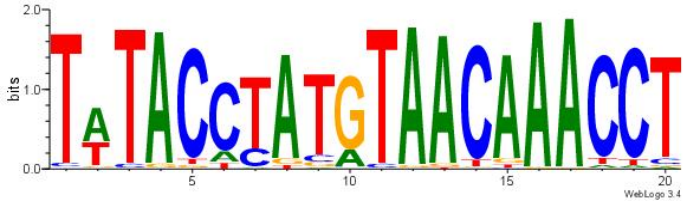

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0785239

Alignment:

TTGGAGGTTCTAGCAGGG
---TTTGTTATAGCAG--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

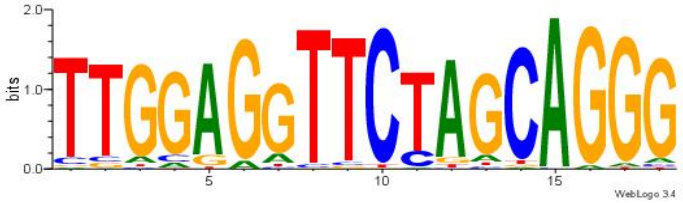

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0860443

Alignment:
AACAACAACAACAAMAA
--CTGCTATAACAAA--

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

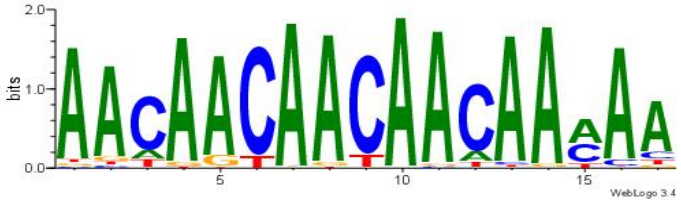

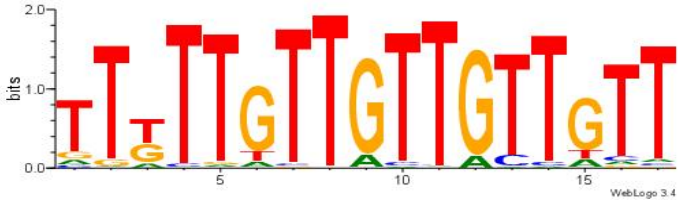

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0860633

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------TTTGTTATAGCAG-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

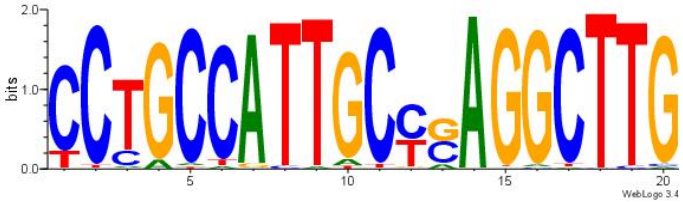

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

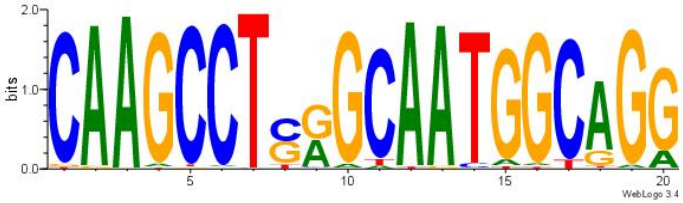

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0907214

Alignment:

```
GCCGTTTKTTAAGCCCGTY
--TTTGTTATAGCAG----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

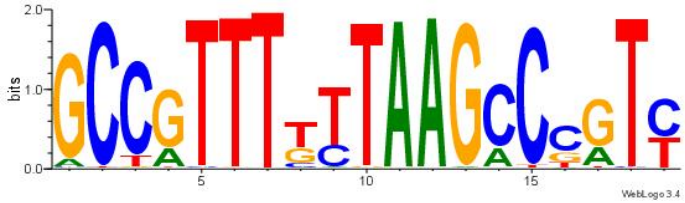

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

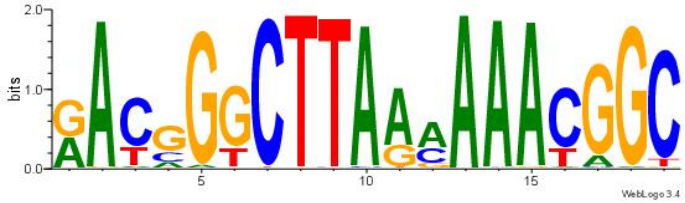

Dataset #:	1
Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.091639

Alignment:
TTTCCTTGACCAG
TTTGTTATAGCAG

Original motif Consensus sequence: CTGGTCAAGGAAA

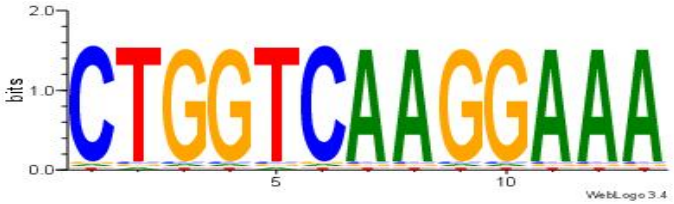

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

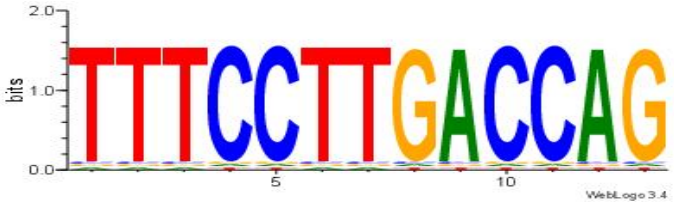

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0926852

Alignment:
GACTTCAAGAATGAAGCCG
--CTGCTATAACAAA----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

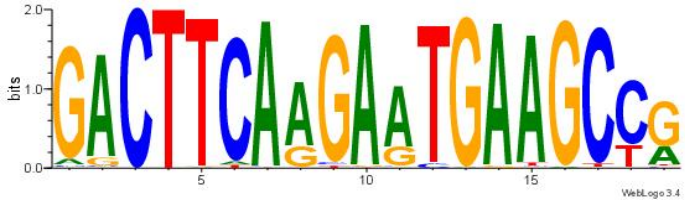

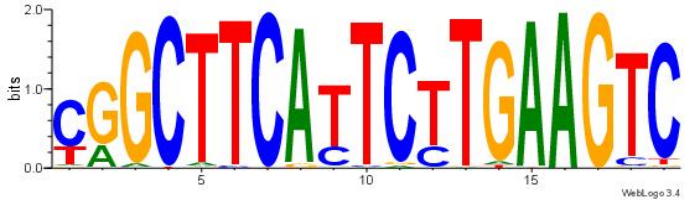

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0933822

Alignment:

```
ACCATCTTTAAGAACT
--CTGCTATAACAAA-
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

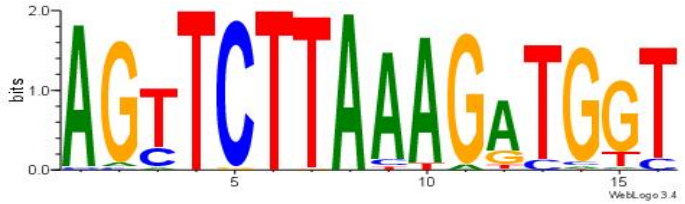

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

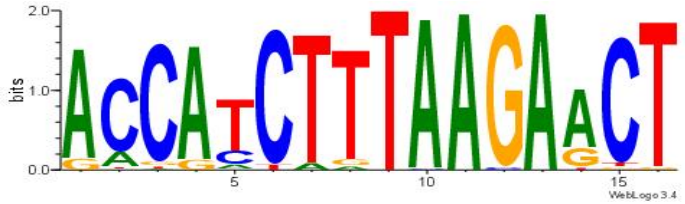

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0962848

Alignment:

```
CATTTGGGAGCCCATTGA
--TTTGTTATAGCAG---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

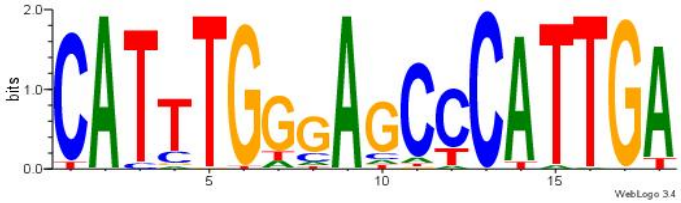

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

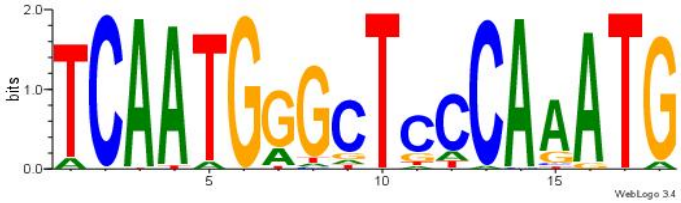

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.0972004

Alignment:
GTCTCWAMAAAAAAWAMAAA
--CTGCTATAACAAA-----

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

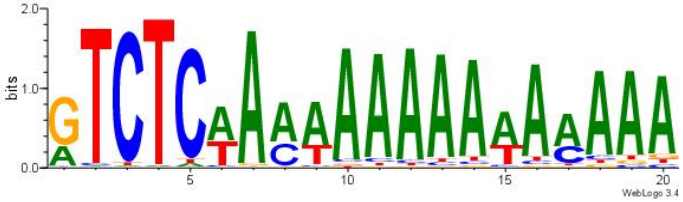

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

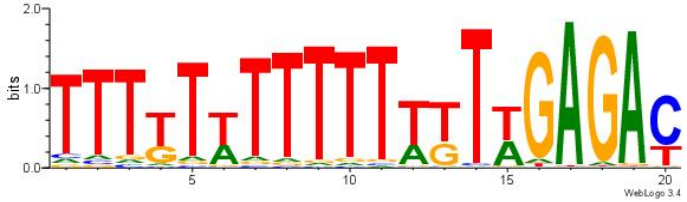

Dataset #: 1
Motif ID: 24
Motif name: Motif 24
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0985809

Alignment:
TTTCTTTGACTRG
TTTGTTATAGCAG

Original motif Consensus sequence: CKAGTCAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

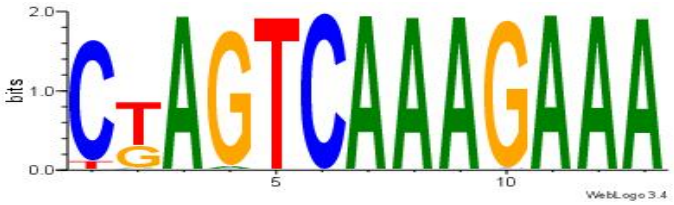

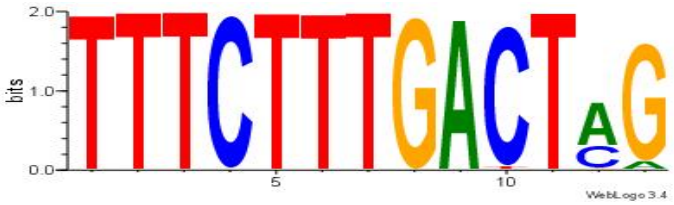

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0991622

Alignment:

```
CCTGTAATCCCAGC
TTTGTTATAGCAG-
```

Original motif Consensus sequence: GCTGGGATTACAGG

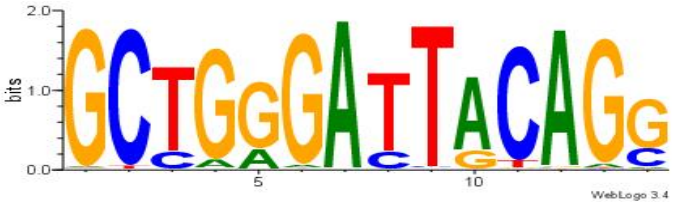

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	115

Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.101644

Alignment:

```
HAGTGGKATTGCTGGATCAT
-TTTGTTATAGCAG------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

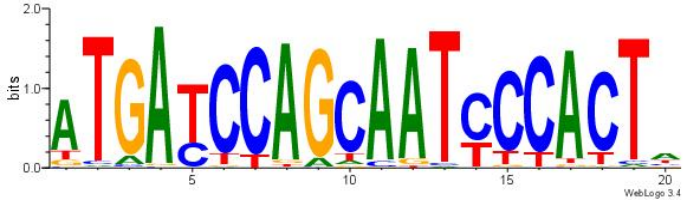

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

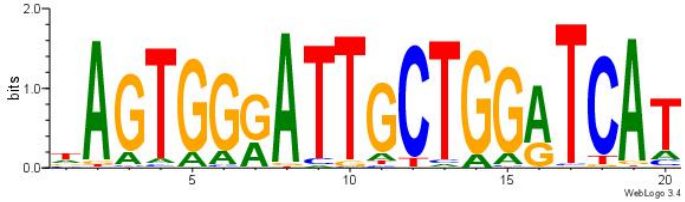

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.103403

Alignment:
CTTTCTGGGCTGGCCAAGG
--CTGCTATAACAAA----

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

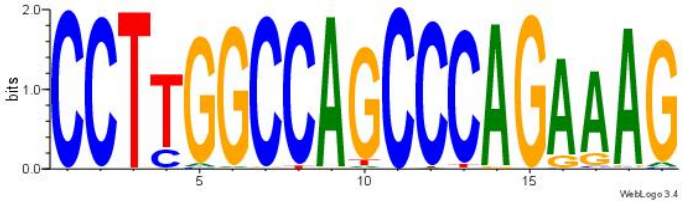

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

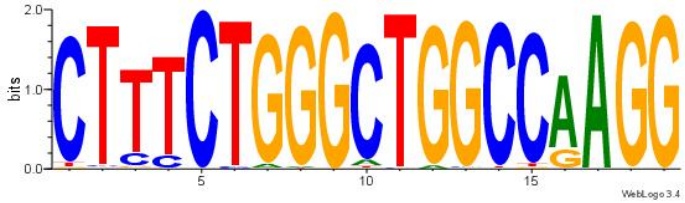

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.106084

Alignment:
ATTGGTGTATTTACAATCCC
----CTGCTATAACAAA---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

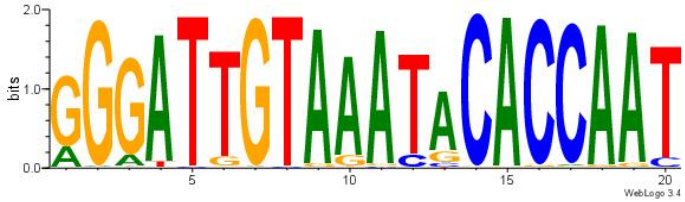

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.107034

Alignment:

```
GTTAACTGTAAAACAGCCT
--CTGCTATAACAAA----
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

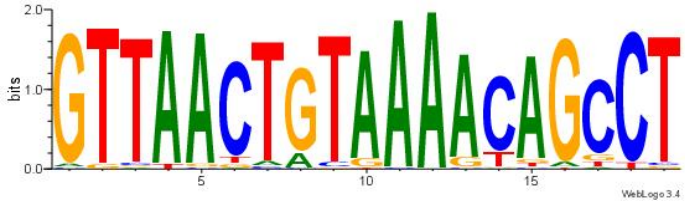

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

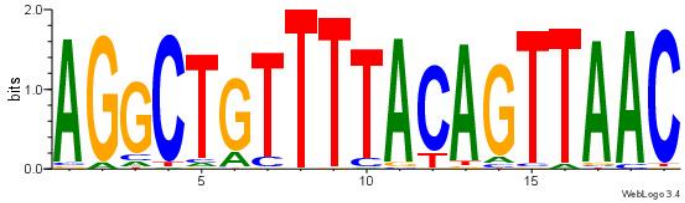

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.107058

Alignment:

```
TTGGTAGGATCCGTGATGCC
TTTGTTATAGCAG-------
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

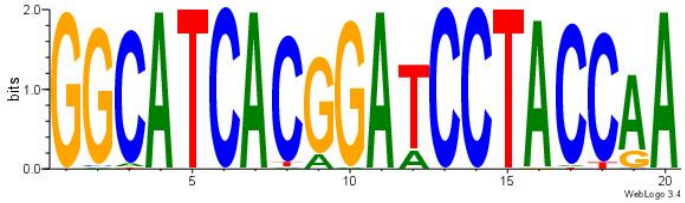

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

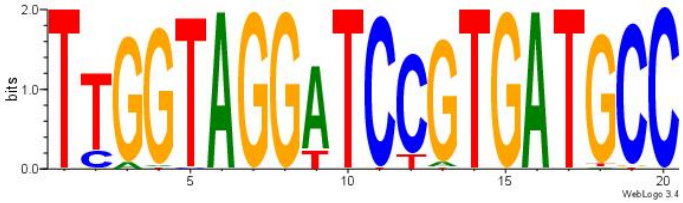

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.107274

Alignment:
AGCTGTGAGAAGAGGGCCAC
--CTGCTATAACAAA-----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

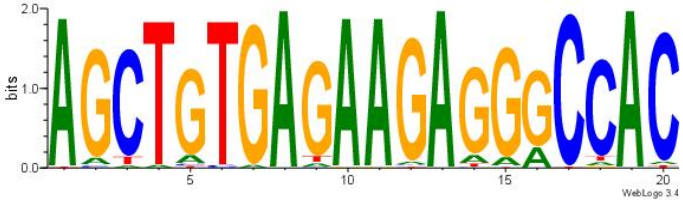

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

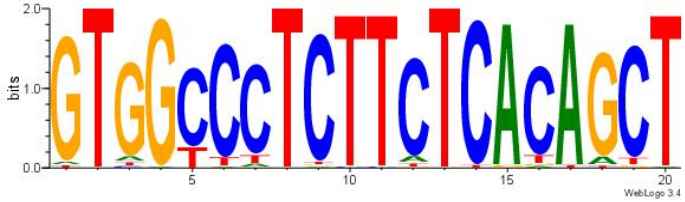

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.107971

Alignment:
CAAAGGCATAAGAATGAT
--CTGCTATAACAAA---

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence:
ATCATTCTTATGCCTTTG

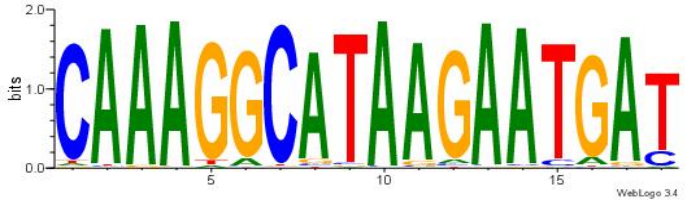

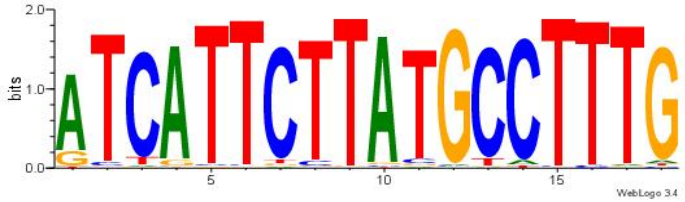

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.108197

Alignment:

```
GGTGCCCCTCTGGGACRAA
------CTGCTATAACAAA
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

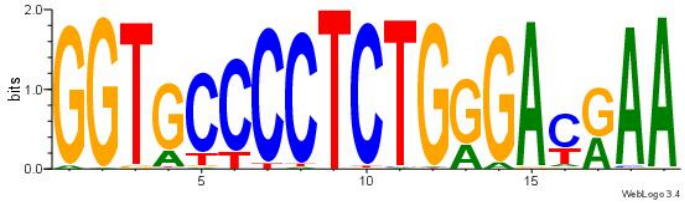

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

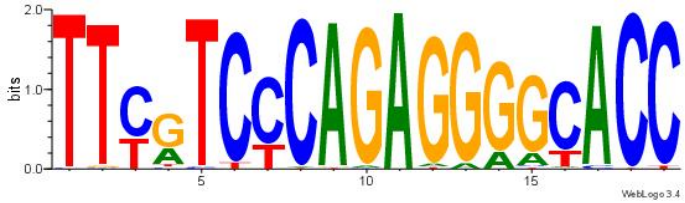

Dataset #: 1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.108714

Alignment:

```
CTCAGGAATGGAAAACC
--CTGCTATAACAAA--
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

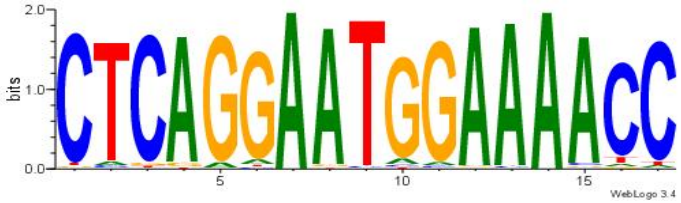

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

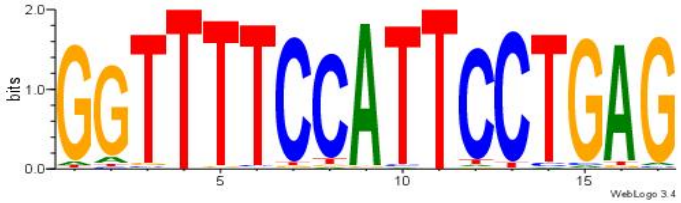

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.109133

Alignment:
TGATGGGTGCACCAAA
---CTGCTATAACAAA

Original motif Consensus sequence: TGATGGGTGCACCAAA

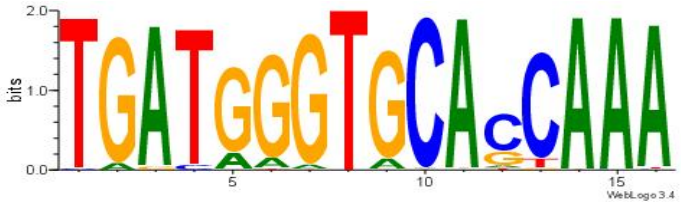

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

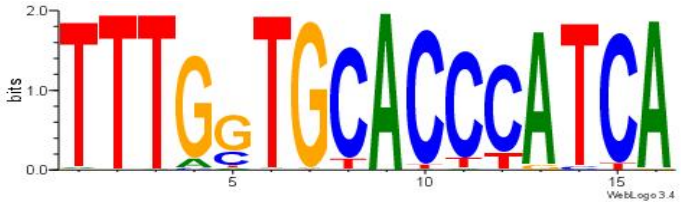

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.110504

Alignment:
CTATTGTGAATARTGCTGC
CTGCTATAACAAA------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

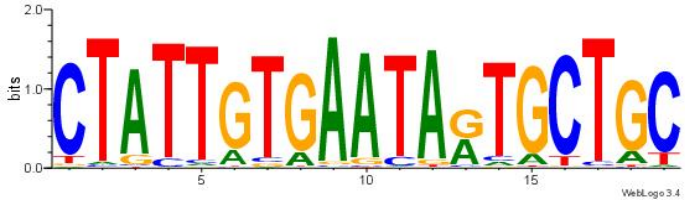

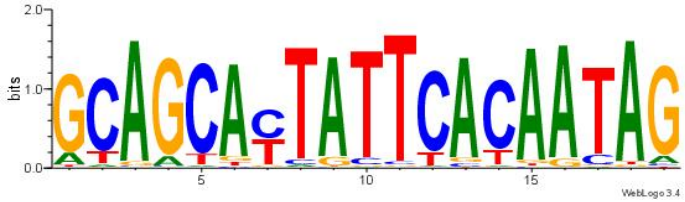

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110631

Alignment:

```
AAGTCTCCCAATTACAACT
-CTGCTATAACAAA-----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

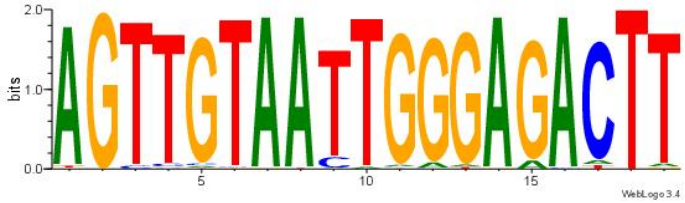

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

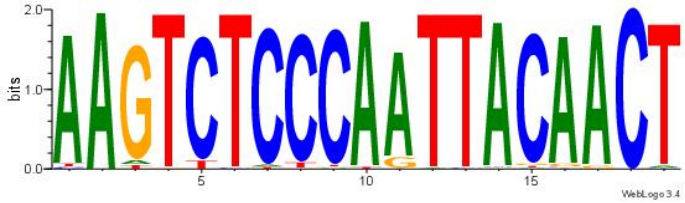

Dataset #: 1

Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.111035

Alignment:

```
TGTATTAGTCMMTT
TTTGTTATAGCAG-
```

Original motif Consensus sequence: AAYRGACTAATACA

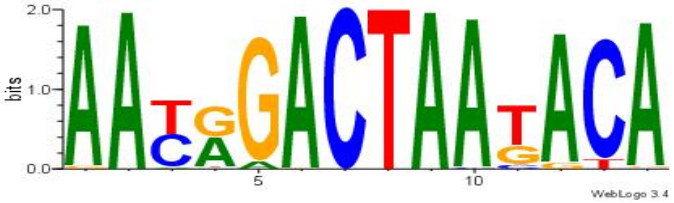

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

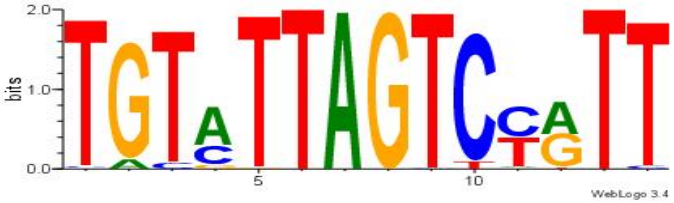

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.111613

Alignment:
ATGTTGTAGCATGT
CTGCTATAACAAA-

Original motif Consensus sequence: ACATGCTACAACAT

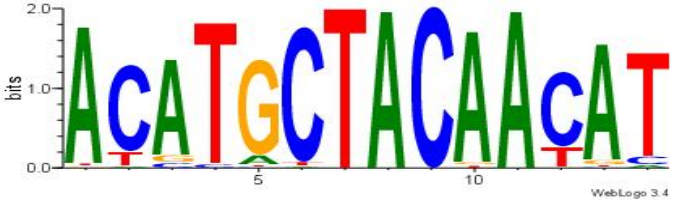

Reverse complement motif Consensus sequence: ATGTTGTAGCATG

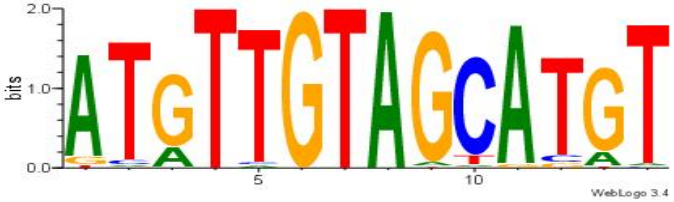

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.111956

Alignment:
GTKTMTATMTACCACATTTT
--TTTGTTATAGCAG-----

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

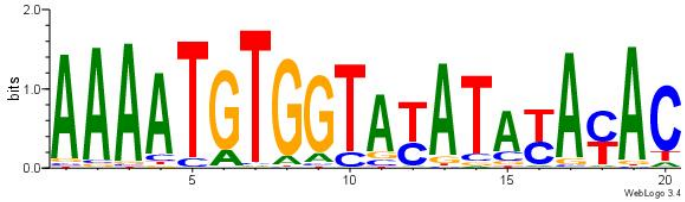

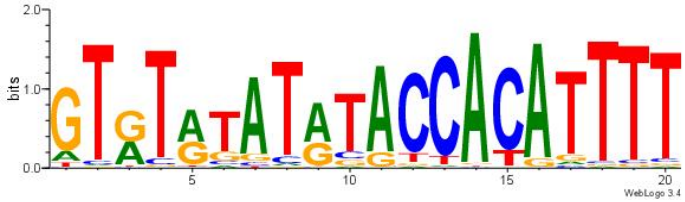

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.113399

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-TTTGTTATAGCAG-----
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

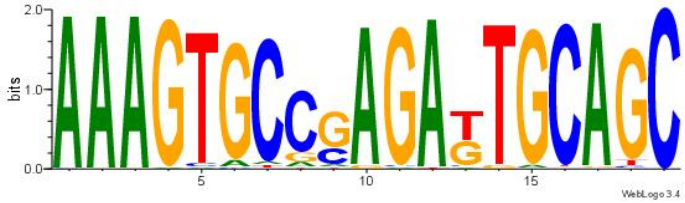

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

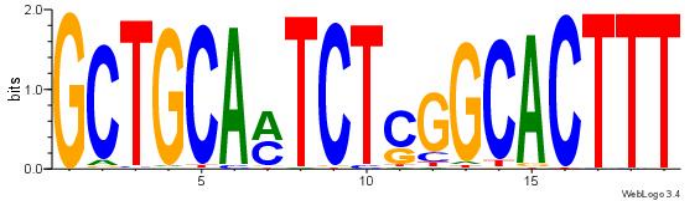

Dataset #:	1

Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113504

Alignment:

```
GAGCTTTAAGATTT
CTGCTATAACAAA-
```

Original motif Consensus sequence: AAATCTTAAAGCTC

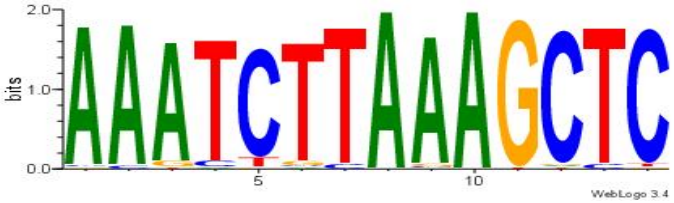

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

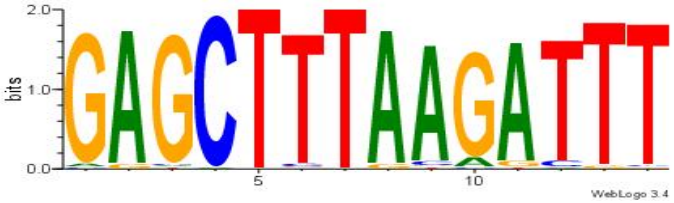

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.113647

Alignment:
CCCATGCAAGTCYRAAATCC
---CTGCTATAACAAA----

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

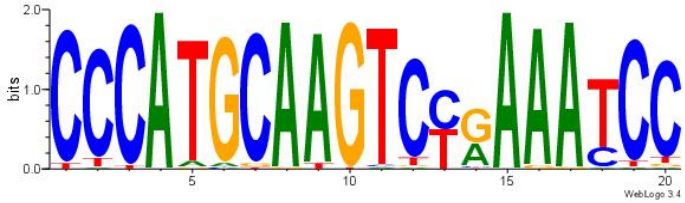

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

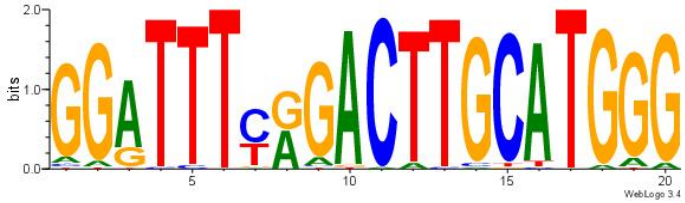

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.114506

Alignment:
GTTGGATTCCCAG
TTTGTTATAGCAG

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.114746

Alignment:

```
KACATTGATTTTGTATC
---TTTGTTATAGCAG-
```

Original motif Consensus sequence: GATACAAAATCAATGTR

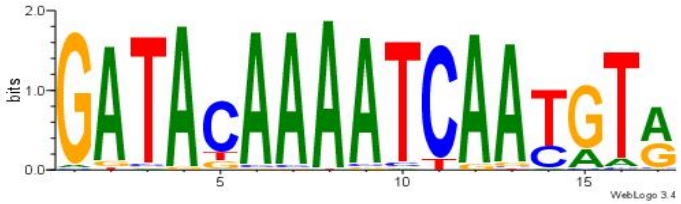

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

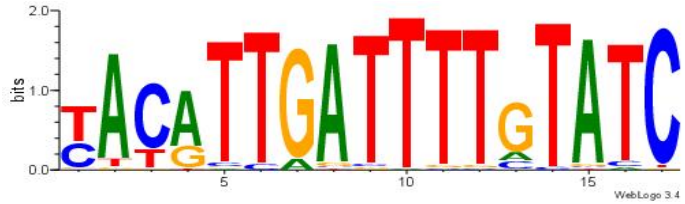

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.114852

Alignment:

```
GCCAGTCACAAAARGACAMA
--CTGCTATAACAAA-----
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

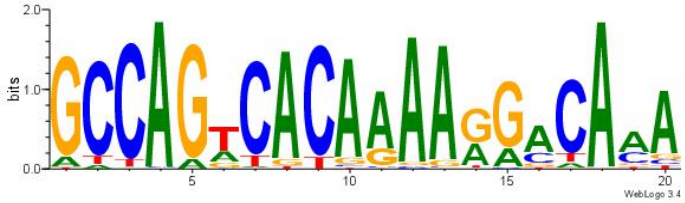

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

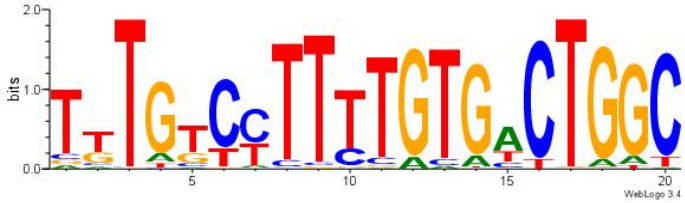

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.114928

Alignment:
TTGTTAAAAACTA
CTGCTATAACAAA

Original motif Consensus sequence: TAGTTTTTAACAA

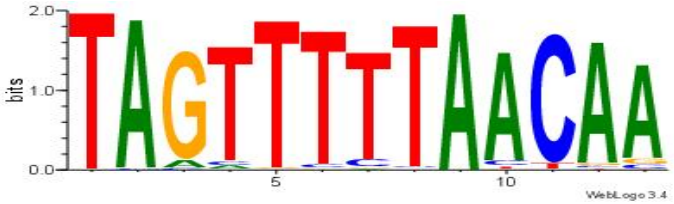

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

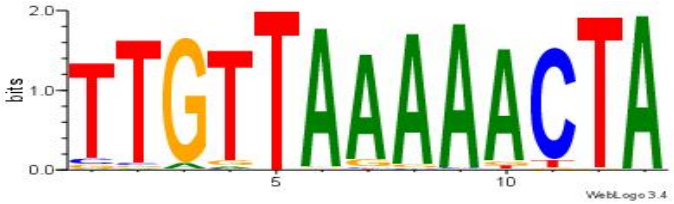

Dataset #: 1
Motif ID: 188
Motif name: Motif 188
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.115062

Alignment:
CTCCAGACACATC
CTGCTATAACAAA

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

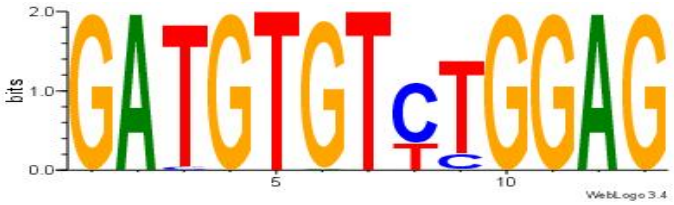

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.115526

Alignment:

```
AAGTCCAAGATCAAGGTGYY
--CTGCTATAACAAA-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

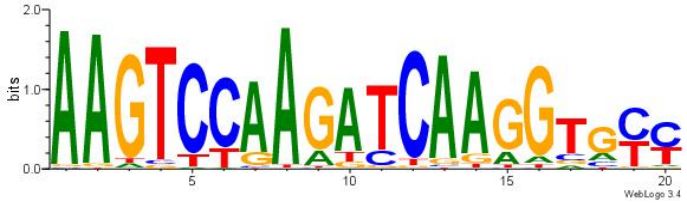

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

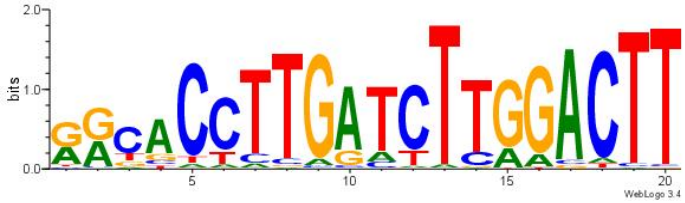

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.116187

Alignment:

```
CAAGTTGACACATAAAATTA
----CTGCTATAACAAA---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

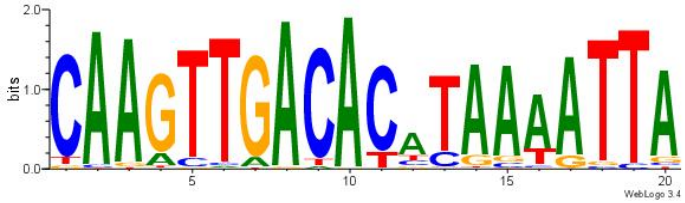

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

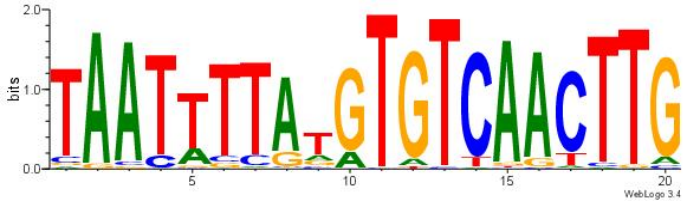

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.116208

Alignment:
CTCCTGCCTCAGCCTCCCRA
CTGCTATAACAAA-------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

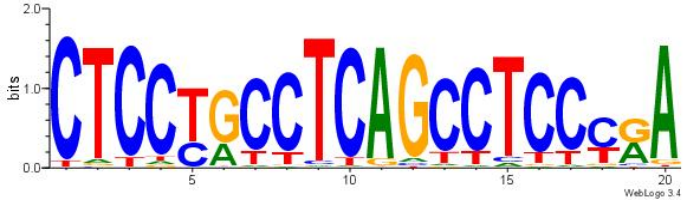

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

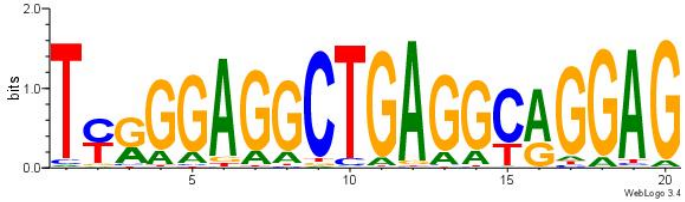

Dataset #: 1
Motif ID: 135
Motif name: Motif 135
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.116862

Alignment:
CTGGGCAACAAGAG
-CTGCTATAACAAA

Original motif Consensus sequence: CTCTTGTTGCCCAG

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

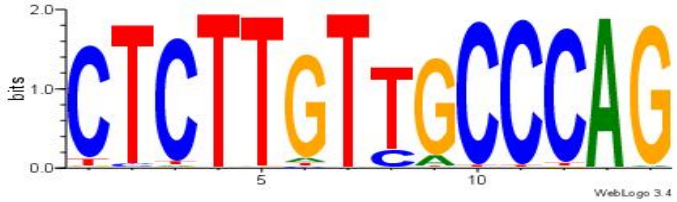

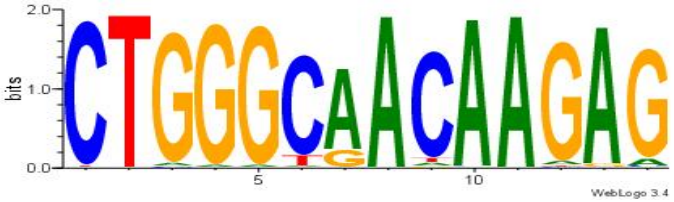

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.116946

Alignment:

```
GAAACTGCTTTGTGATGTGT
---CTGCTATAACAAA----
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

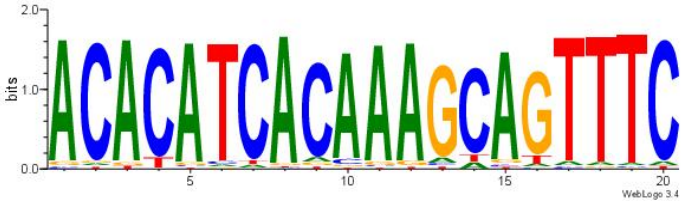

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

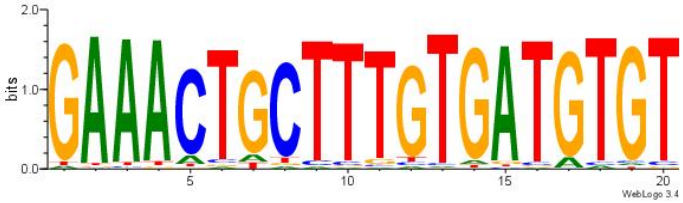

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.117108

Alignment:

```
AGACAGTGGGYGCAGGHCA
----TTTGTTATAGCAG--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

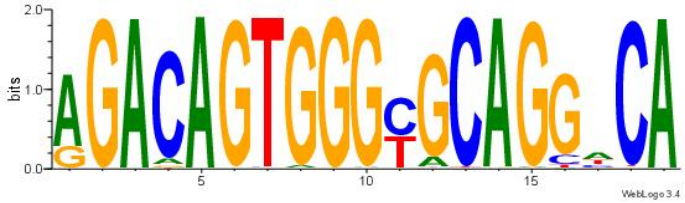

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

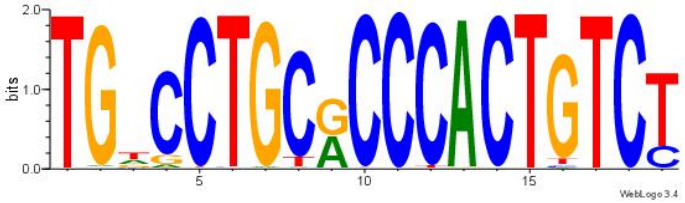

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.117294

Alignment:
ATACAATGGGGGTACAGRC
-----CTGCTATAACAAA-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

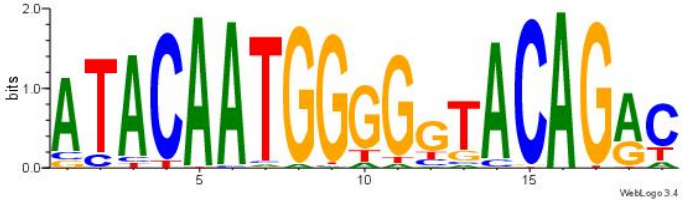

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

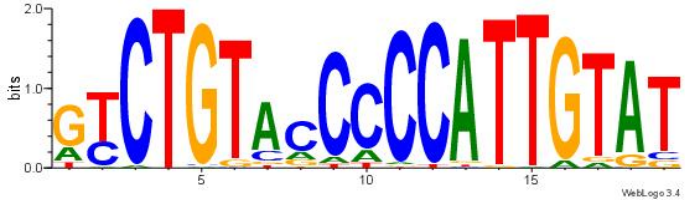

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.117347

Alignment:
CAAGGGTATAYGAGTAGCTG
------TTTGTTATAGCAG-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

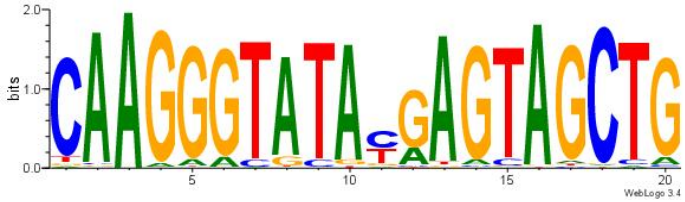

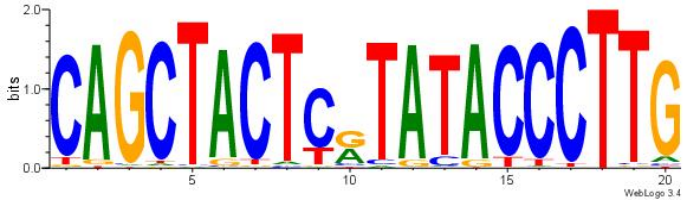

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.117379

Alignment:

```
TAGATAATAGCTCCAGCTTT
TTTGTTATAGCAG-------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

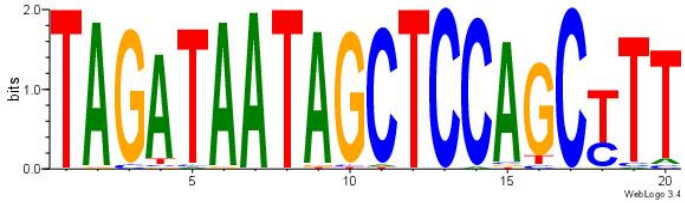

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

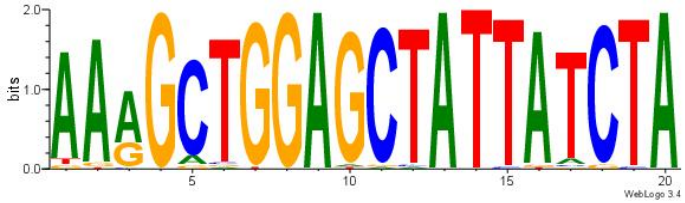

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.117496

Alignment:

```
AAGTTCTKGGKTACATGTGC
------TTTGTTATAGCAG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

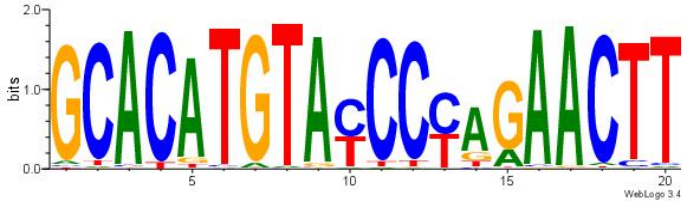

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

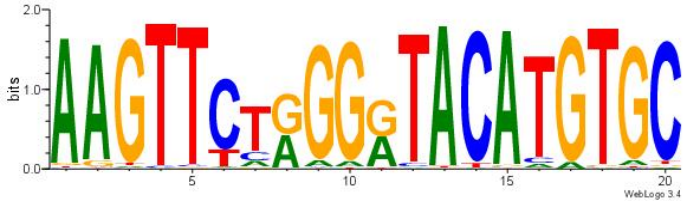

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.117594

Alignment:
GGGGGAGACATCACACR
----CTGCTATAACAAA

Original motif Consensus sequence: GGGGGAGACATCACACR

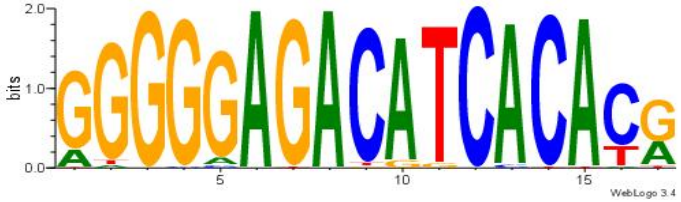

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

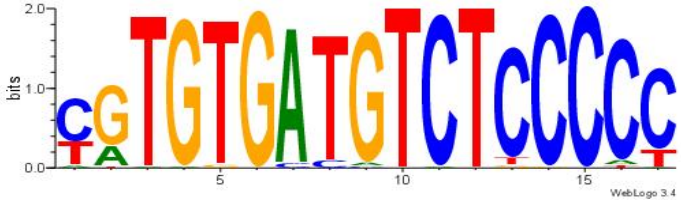

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.117903

Alignment:
CGTCGCTCACGCTGGGAGCT
-TTTGTTATAGCAG------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

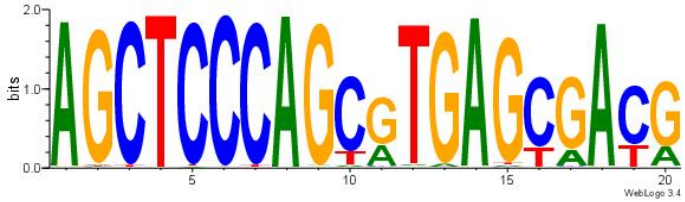

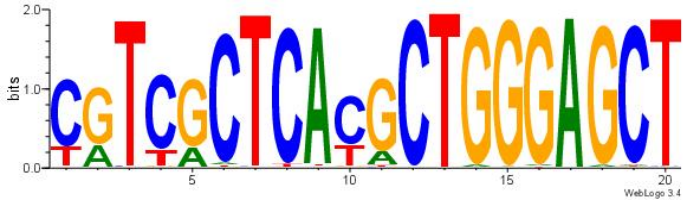

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.118137

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-------TTTGTTATAGCAG
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

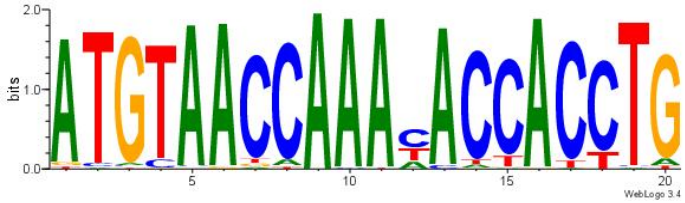

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

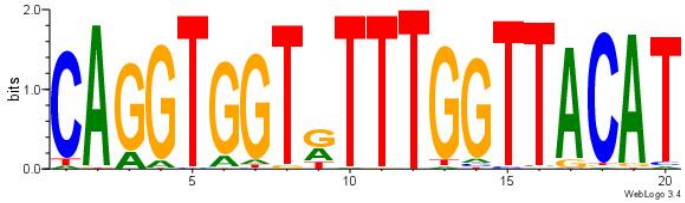

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.118707

Alignment:

```
ATGGCTGAATAKTATTCCAT
-------TTTGTTATAGCAG
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

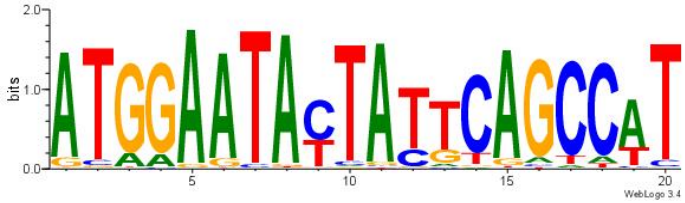

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

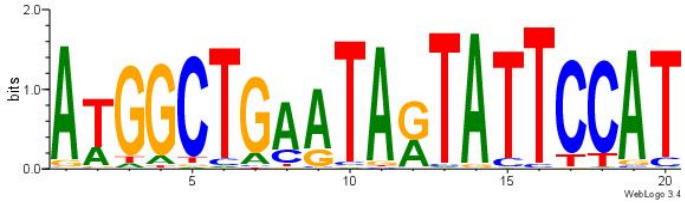

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.11887

Alignment:
CCGTGCGCGAGCCG
TTTGTTATAGCAG-

Original motif Consensus sequence: CCGTGCGCGAGCCG

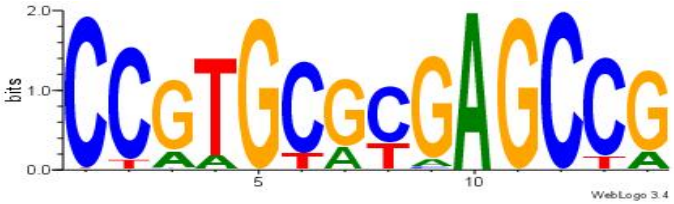

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

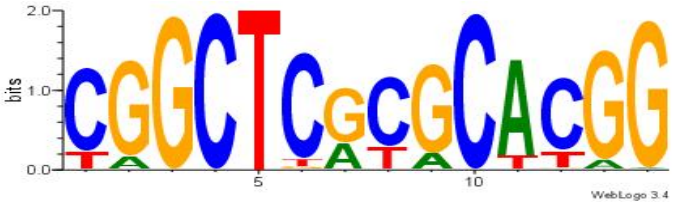

Dataset #: 1 Motif ID: 256 Motif name: Motif 256

Original motif Consensus sequence: RCAGTGTACACTGY

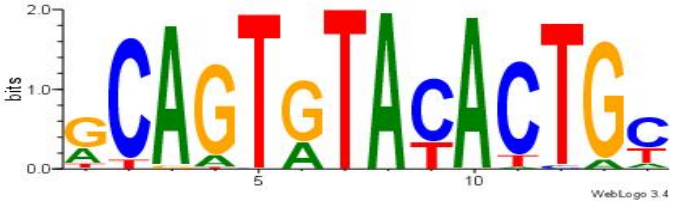

Reverse complement motif Consensus sequence: KCAGTGTACACTG

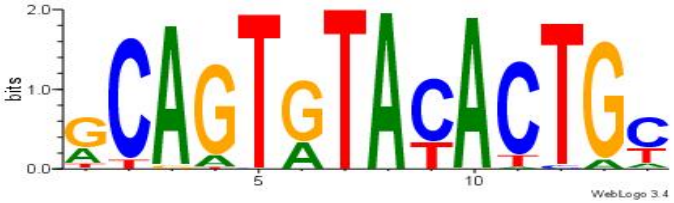

Best Matches for Motif ID 256 (Highest to Lowest)

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 5
Number of overlap: 14
Similarity score: 0.0643389

Alignment:
AACCCTATTGTGAACTGYG
----RCAGTGTACACTGY-

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

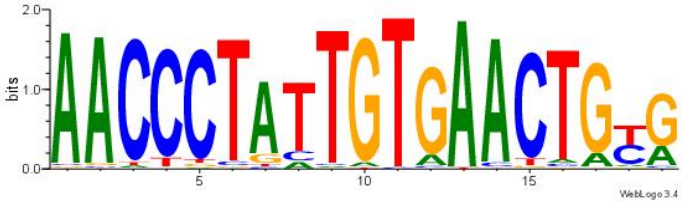

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

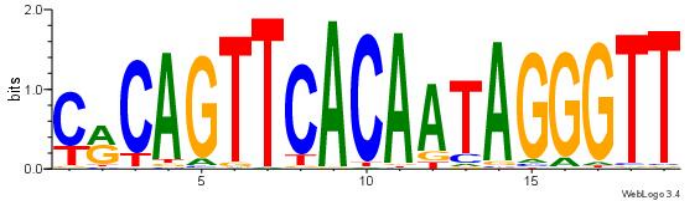

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0671024

Alignment:
AGGCCCCAGTGTSTGTTGTT
-----RCAGTGTACACTGY-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

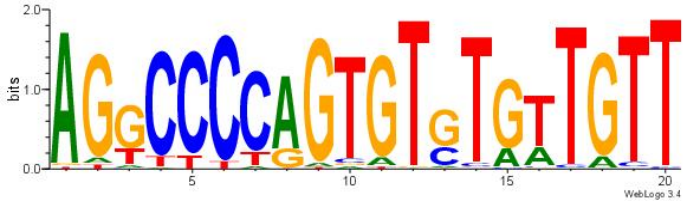

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

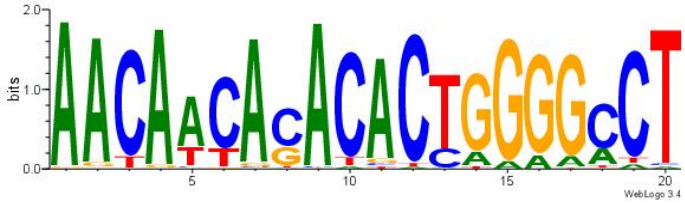

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0717951

Alignment:

```
CTATTGTGAATARTGCTGC
--RCAGTGTACACTGY---
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

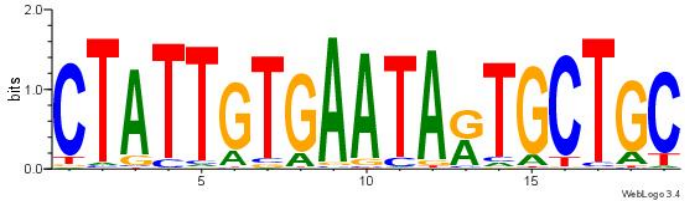

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

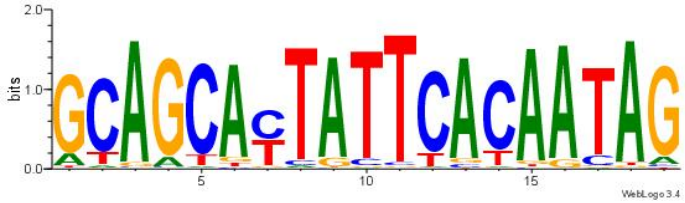

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0738478

Alignment:

```
CTTGCCCAAGGTCACACAGC
------KCAGTGTACACTGM
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

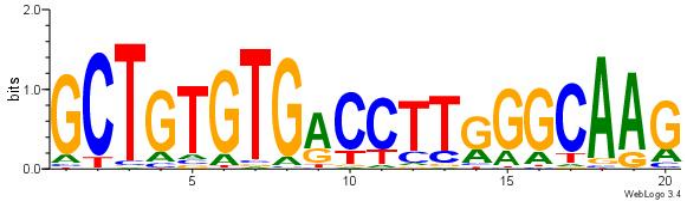

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

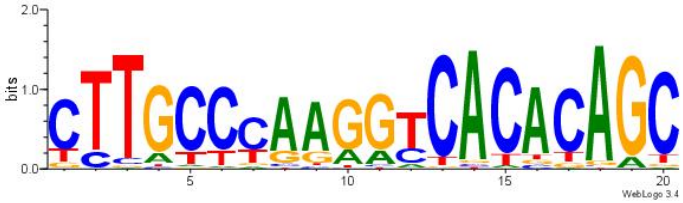

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0744746

Alignment:
TAATTTTATGTGTCAACTTG
------KCAGTGTACACTGM

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

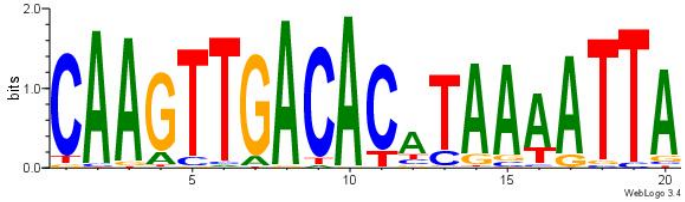

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

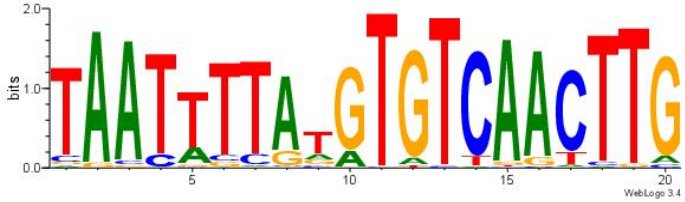

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0756754

Alignment:
GACAGGAGATTAACACTGAG
-----KCAGTGTACACTGM-

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

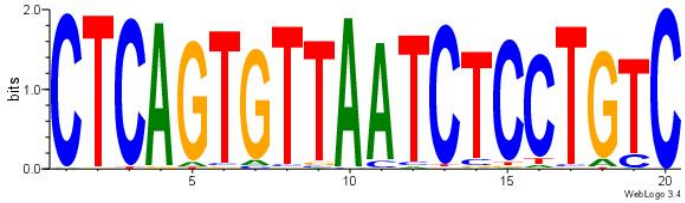

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

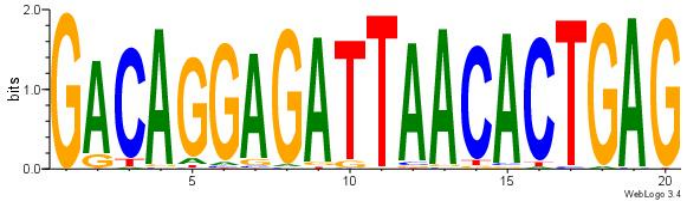

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0781739

Alignment:

```
TCTMKGCTCACTGC
KCAGTGTACACTGM
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

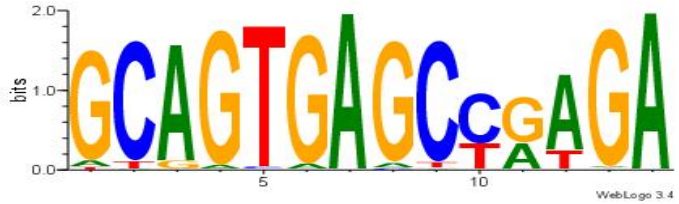

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

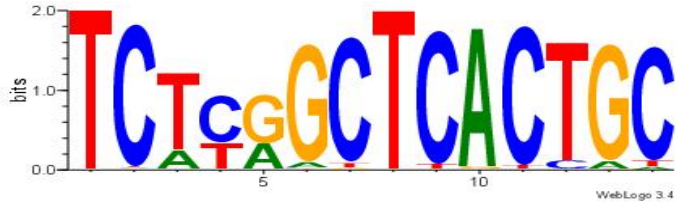

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0789164

Alignment:

```
CAAAGTCTTAACTCATT
-KCAGTGTACACTGM--
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

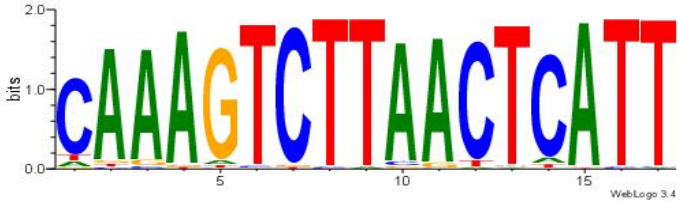

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.0796838

Alignment:
AGACAGTGGGYGCAGGHCA
--RCAGTGTACACTGY---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

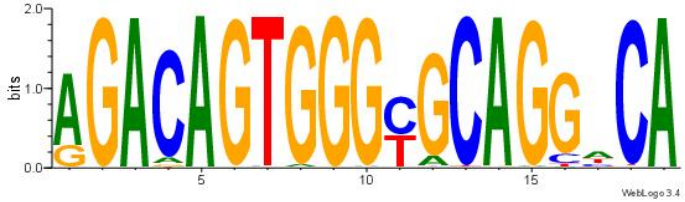

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

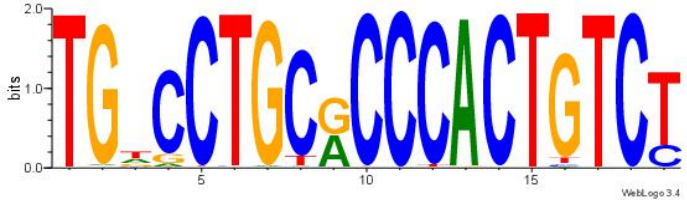

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.081521

Alignment:
AAAAGTCCACAGTCCAAAGT
-RCAGTGTACACTGY-----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

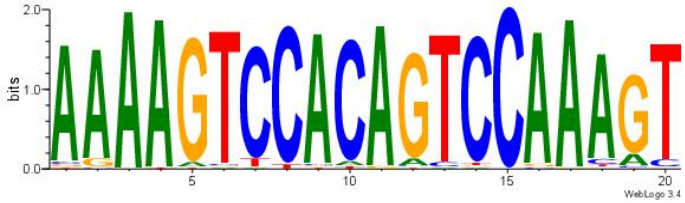

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

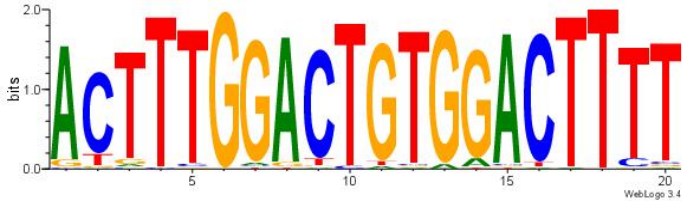

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0865484

Alignment:

```
GCAAAKGACATGATYTCATT
------KCAGTGTACACTGM
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

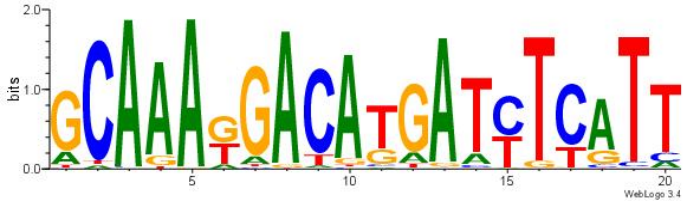

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

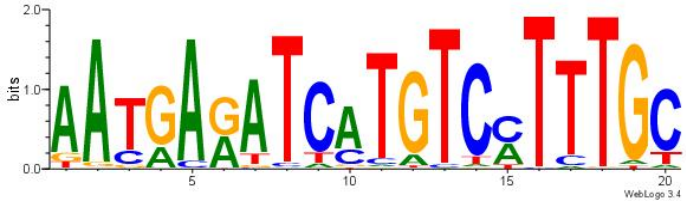

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0874306

Alignment:

```
ATCCAGTCTATCATTG
--RCAGTGTACACTGY
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

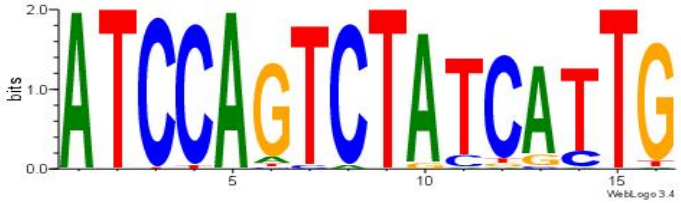

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

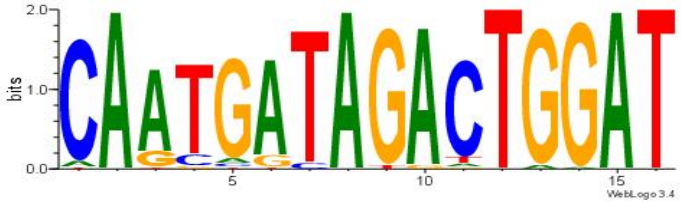

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0875378

Alignment:
CRTGAGCCACYGYRCCYGGC
------RCAGTGTACACTGY

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

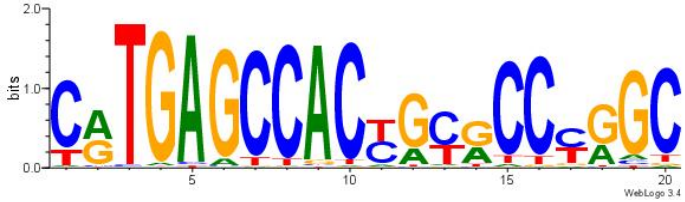

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

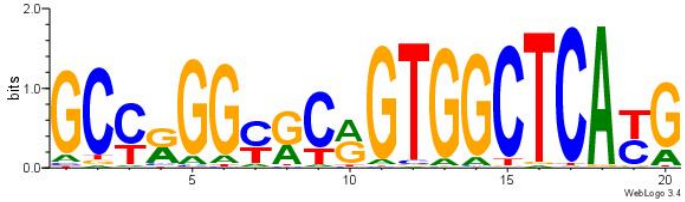

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0876074

Alignment:
CCCGAAGCTGCRYRCTCGGT
------RCAGTGTACACTGY

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

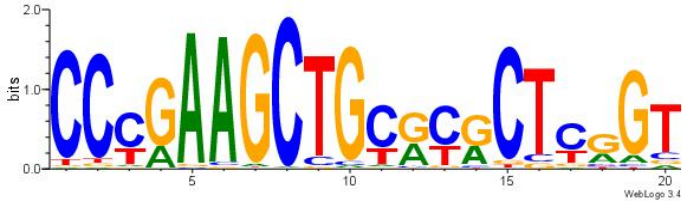

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

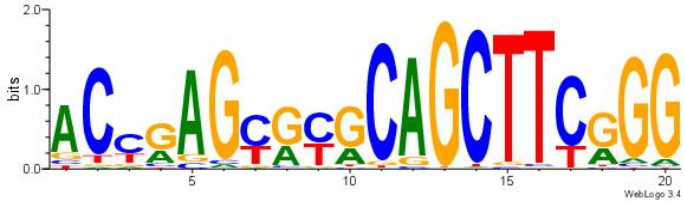

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.088231

Alignment:

```
GTTGTGAGGATTAAATGAG
----KCAGTGTACACTGM-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

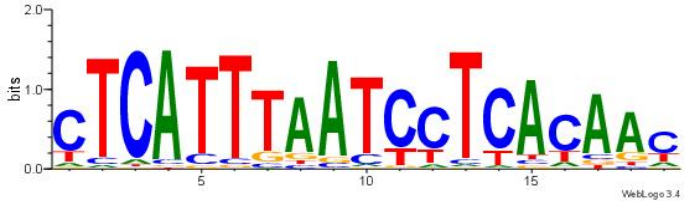

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

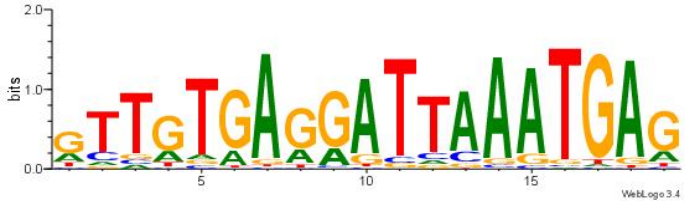

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0905127

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-KCAGTGTACACTGM-----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

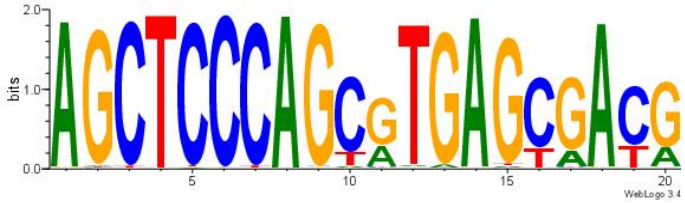

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

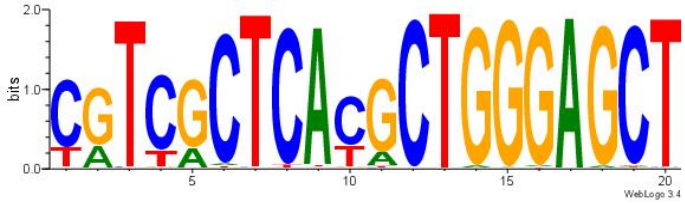

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.0906572

Alignment:
GGGATTGTAAATACACCAAT
-----RCAGTGTACACTGY-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

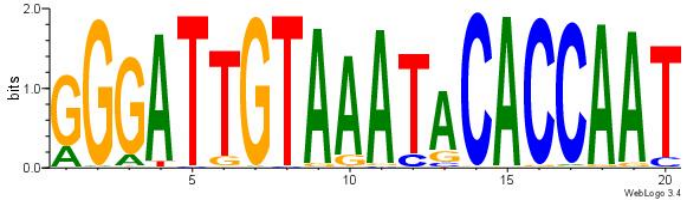

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0914708

Alignment:
TGCCCAGTCTGGAAAGTG
---RCAGTGTACACTGY-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

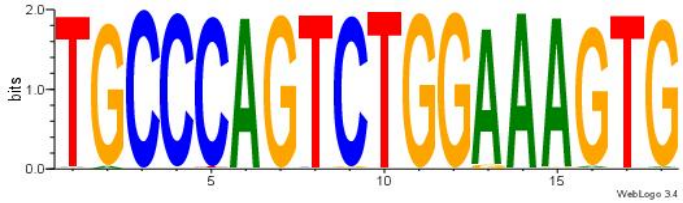

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

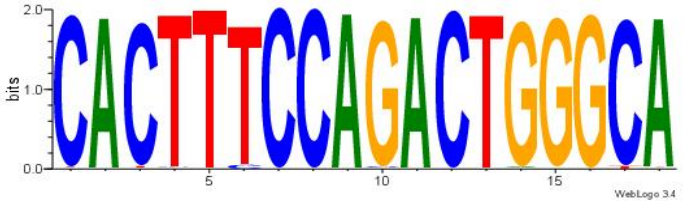

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0915662

Alignment:

```
TGAGKCAATTAAACCTCTT
----KCAGTGTACACTGM-
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

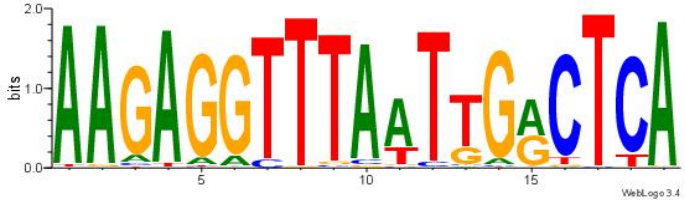

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

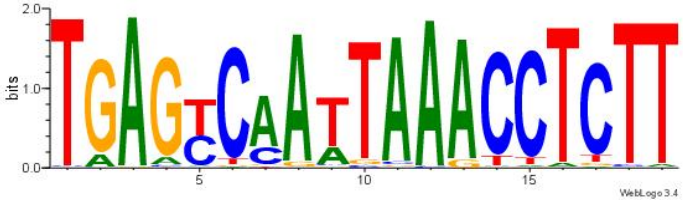

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0924913

Alignment:

```
TAAAAGACTACAWATTGGGT
----RCAGTGTACACTGY--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

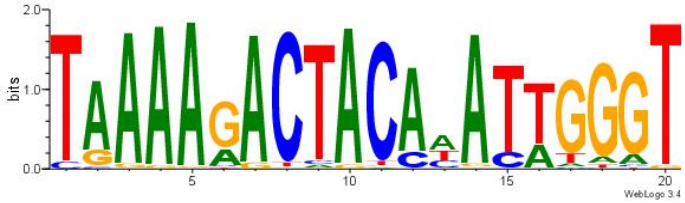

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

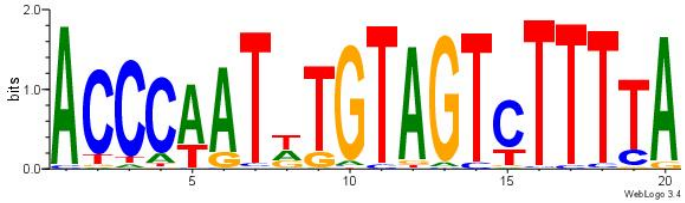

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 14
Similarity score: 0.0930284

Alignment:
GAAACTGCTTTGTGATGTGT
RCAGTGTACACTGY------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

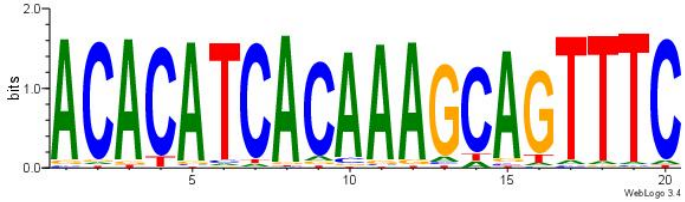

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

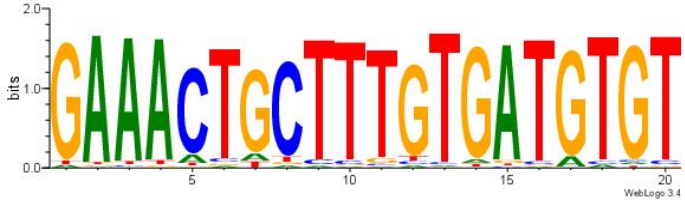

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0932794

Alignment:
AGGGATCTAGGTTGCR
-RCAGTGTACACTGY-

Original motif Consensus sequence: AGGGATCTAGGTTGCR

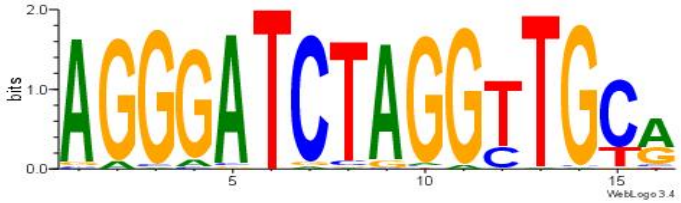

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

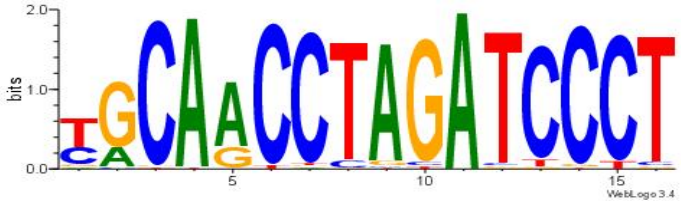

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0935345

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
----KCAGTGTACACTGM--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

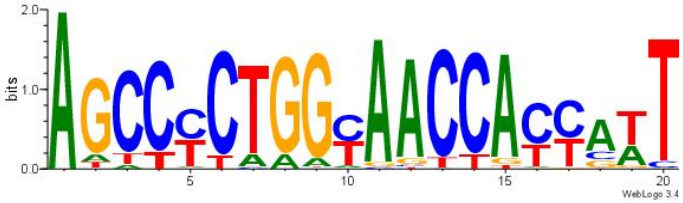

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

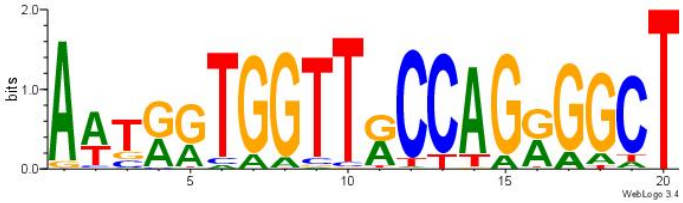

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0938229

Alignment:

```
AGTGTTTCCAAMCTGCT
--KCAGTGTACACTGM-
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

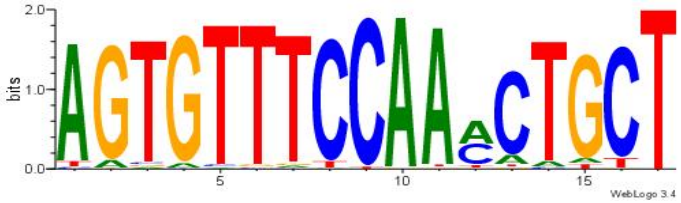

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

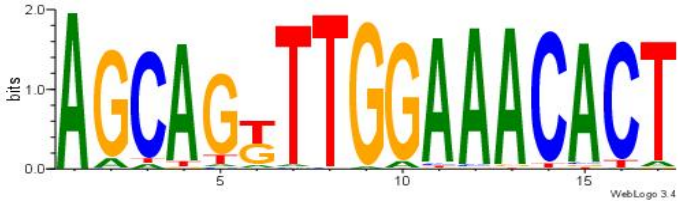

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.0939515

Alignment:
VMATTTAKTGAGCACCTACT
----KCAGTGTACACTGM--

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

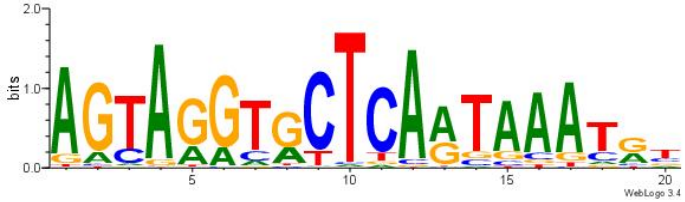

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

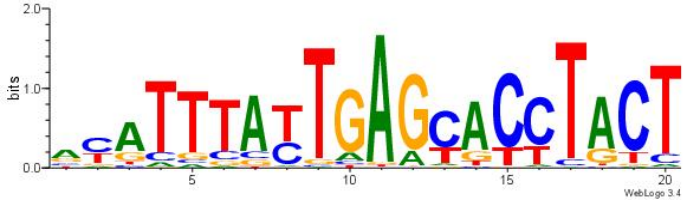

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0939951

Alignment:
KACGGGCTTAARAAACGGC
RCAGTGTACACTGY-----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

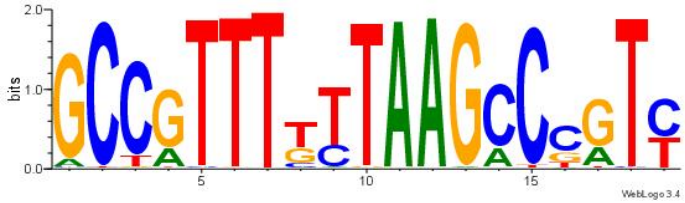

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

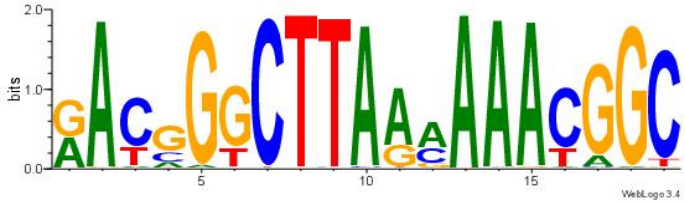

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0945758

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-KCAGTGTACACTGM-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

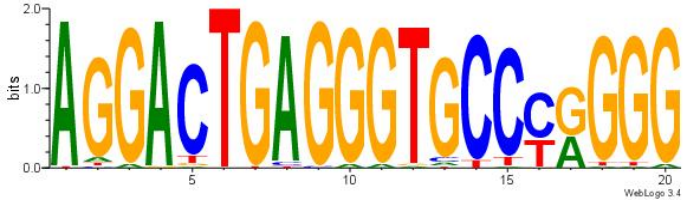

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

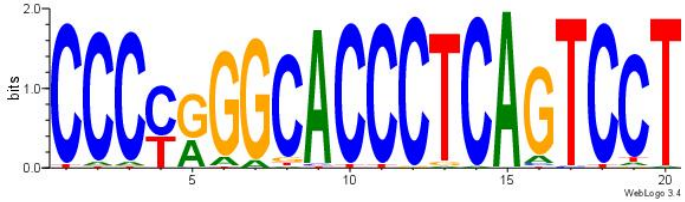

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0948595

Alignment:

```
ATGGCTGAATAKTATTCCAT
---RCAGTGTACACTGY---
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

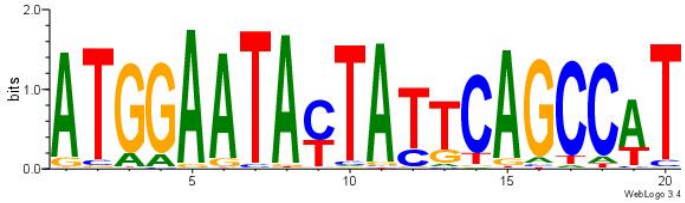

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

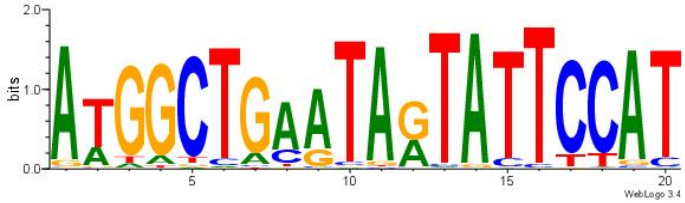

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.0954902

Alignment:
CACCAGGAGATTATATCCCR
-KCAGTGTACACTGM-----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

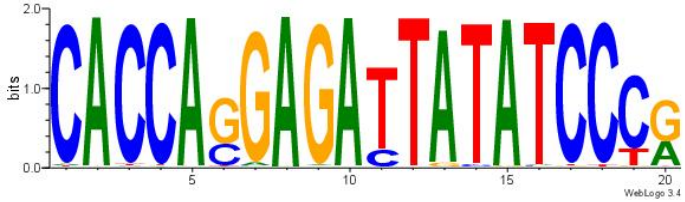

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

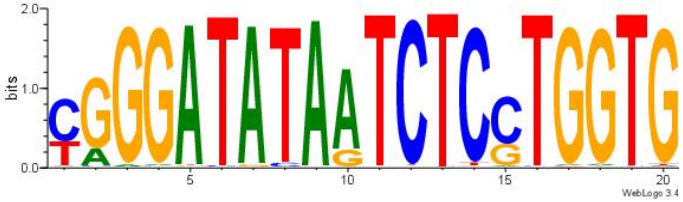

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0957236

Alignment:
CMTAGYACAGTGCCTGGCAC
----KCAGTGTACACTGM--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

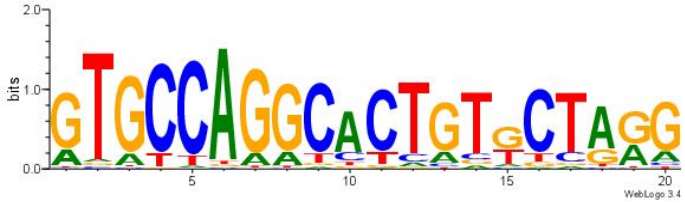

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

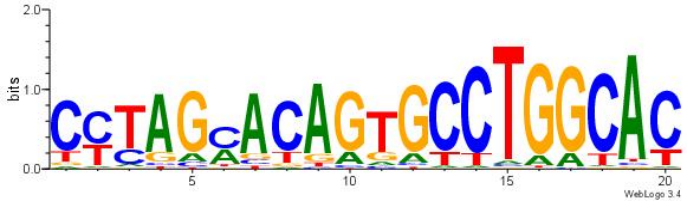

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0960796

Alignment:

```
GTGGCCCTCTTCTCACAGCT
-----KCAGTGTACACTGM-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

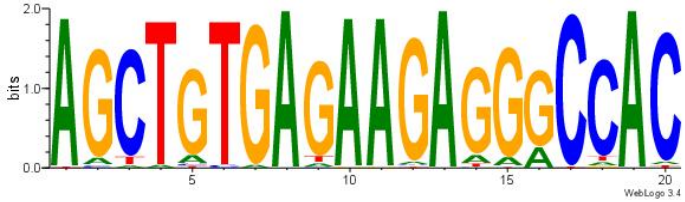

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

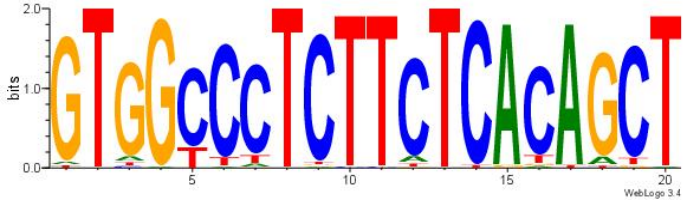

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0963388

Alignment:

```
AGGCTGTTTTACAGTTAAC
---KCAGTGTACACTGM--
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

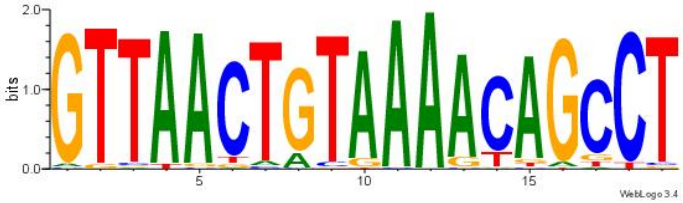

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

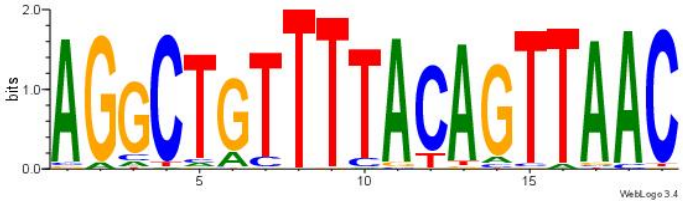

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 14
Similarity score: 0.096383

Alignment:
CCCATGCAAGTCYRAAATCC
------KCAGTGTACACTGM

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

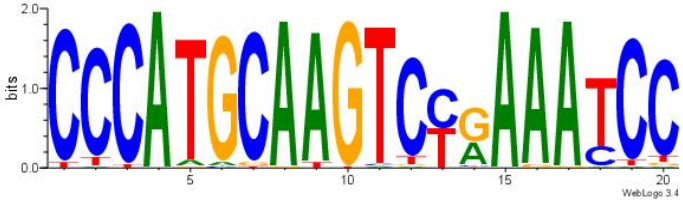

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

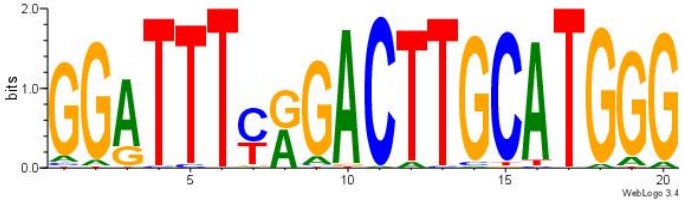

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0968965

Alignment:
GTAACACTCACCGCGARGGT
RCAGTGTACACTGY------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

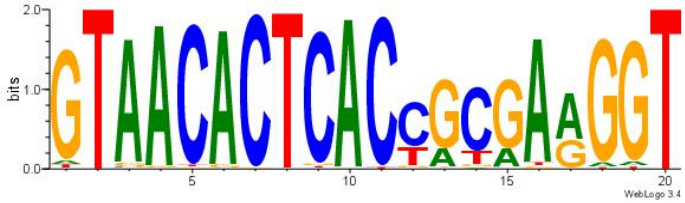

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

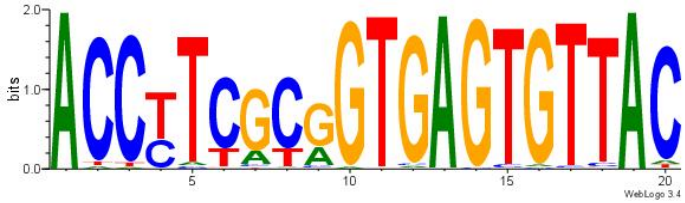

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0969438

Alignment:

```
CAAGGGTATAYGAGTAGCTG
------KCAGTGTACACTGM
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

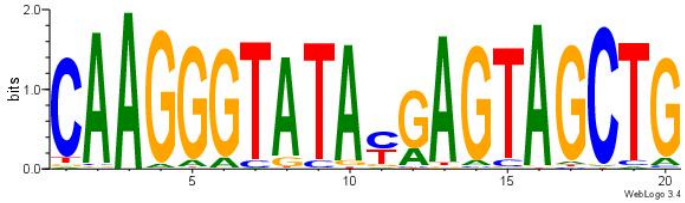

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

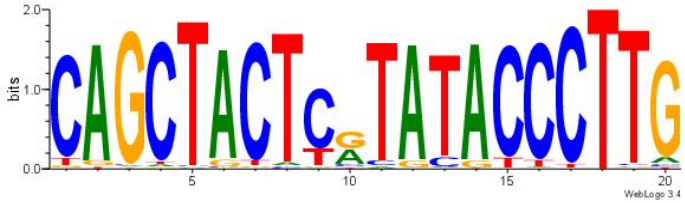

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0969978

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-RCAGTGTACACTGY-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

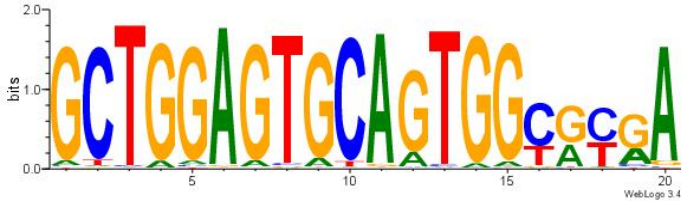

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

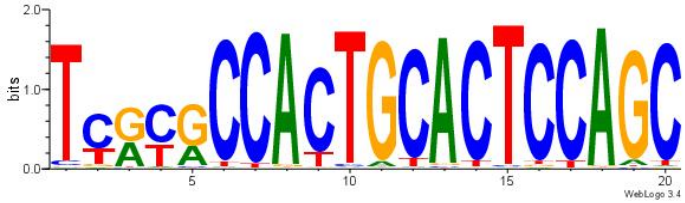

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0972894

Alignment:
GMTTAGCTCCCACTTA
RCAGTGTACACTGY--

Original motif Consensus sequence: TAAGTGGGAGCTAARC

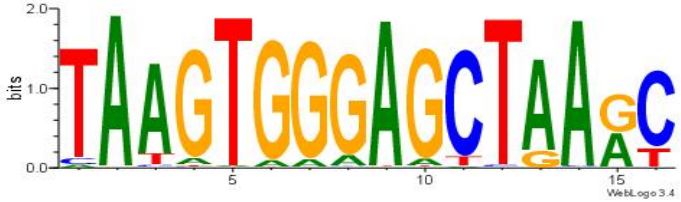

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

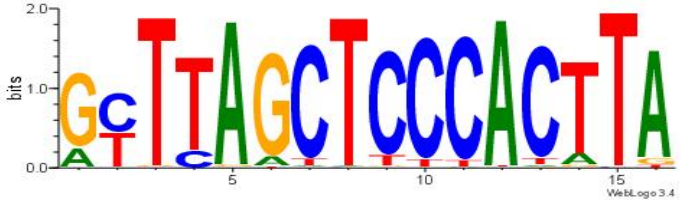

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0974985

Alignment:
GGCTGCGGAGGGTGTA
-RCAGTGTACACTGY-

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

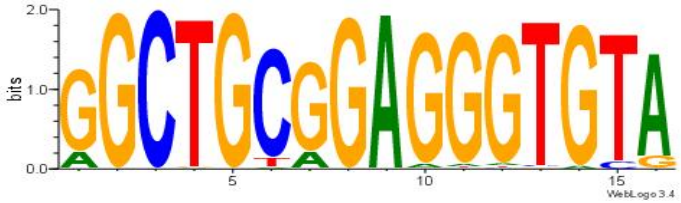

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

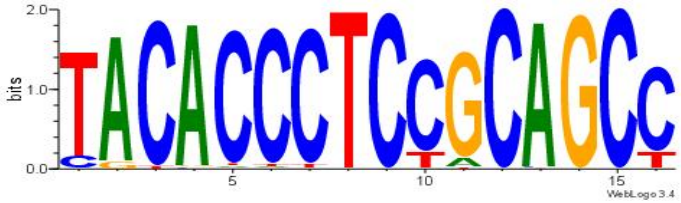

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.098218

Alignment:

```
GCTGGGATTACAGG
KCAGTGTACACTGM
```

Original motif Consensus sequence: GCTGGGATTACAGG

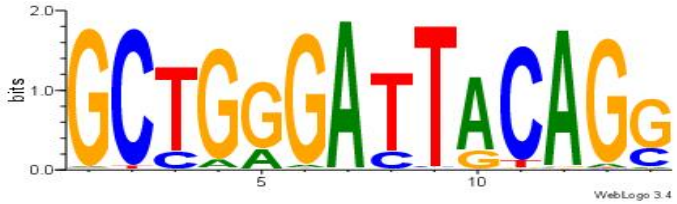

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0983009

Alignment:

```
ACATGCTACAACAT
RCAGTGTACACTGY
```

Original motif Consensus sequence: ACATGCTACAACAT

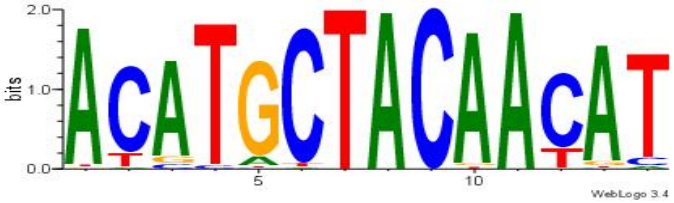

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

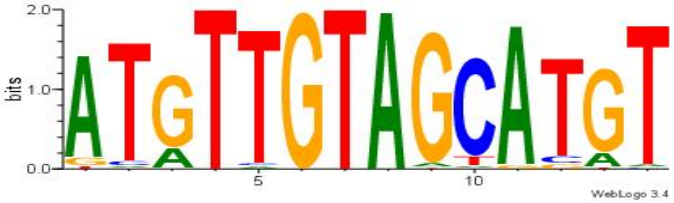

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.098721

Alignment:
GGAGGTGTGGAGGGAGAGGC
-KCAGTGTACACTGM-----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

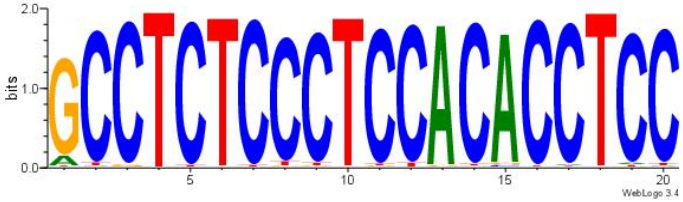

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

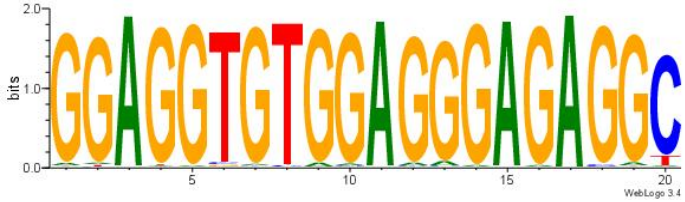

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0991735

Alignment:
ATCTGACAGGAGGYRGAGCT
-----RCAGTGTACACTGY-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

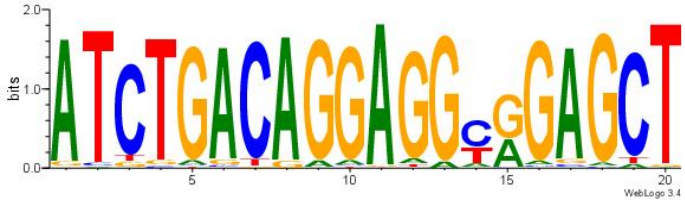

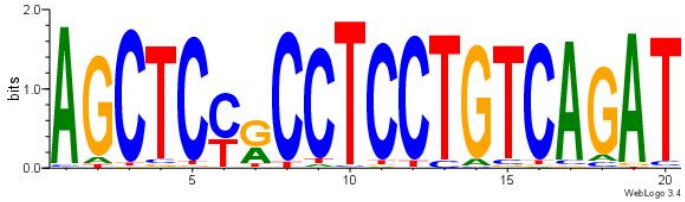

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0996843

Alignment:

```
AAAGTGCCGAGAKTGCAGC
---KCAGTGTACACTGM--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

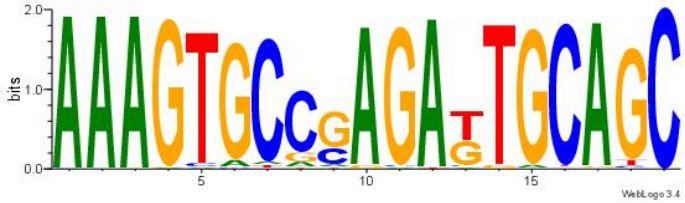

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

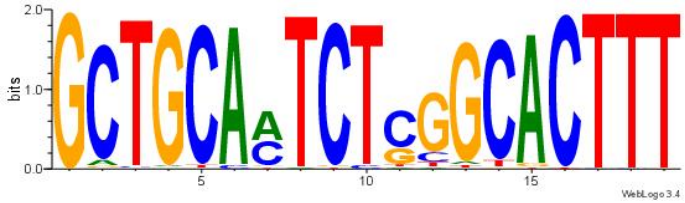

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0998559

Alignment:

```
KKCACCTTGATCTTGGACTT
-KCAGTGTACACTGM-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

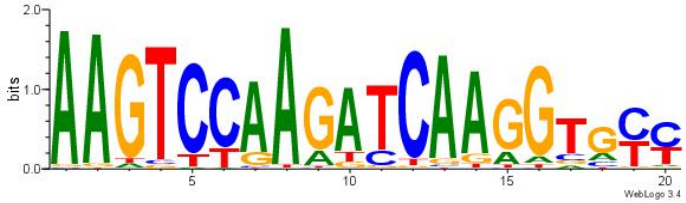

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

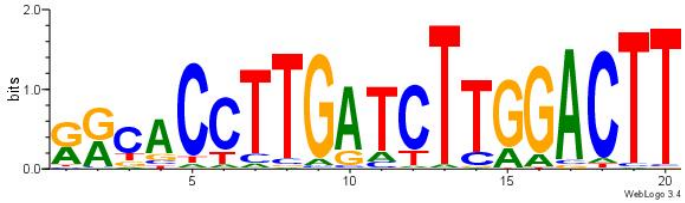

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.100184

Alignment:
TGCTGGAGGTCCACTCCAGA
---KCAGTGTACACTGM---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

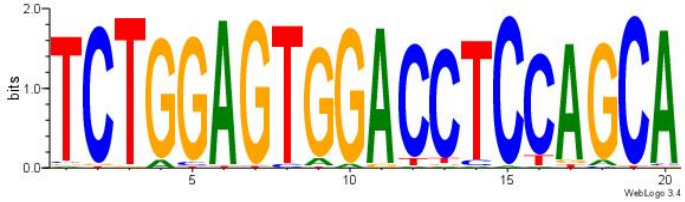

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

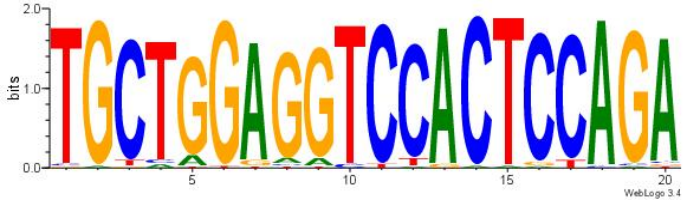

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.100502

Alignment:
AGCTAGAYACAGAGTGC
--KCAGTGTACACTGM-

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

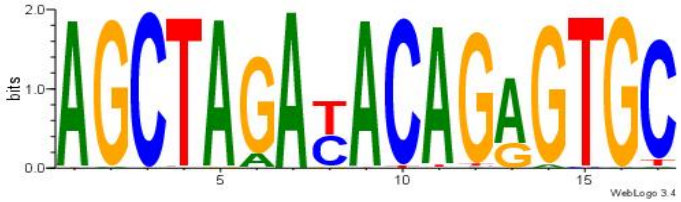

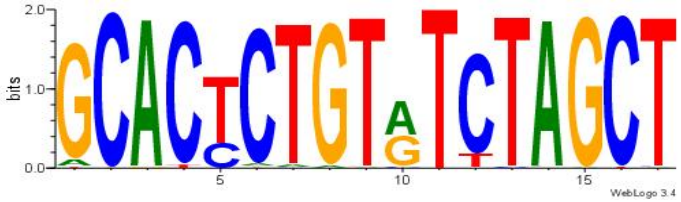

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.100768

Alignment:

```
GCACATGTAYCCYAGAACTT
-RCAGTGTACACTGY-----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

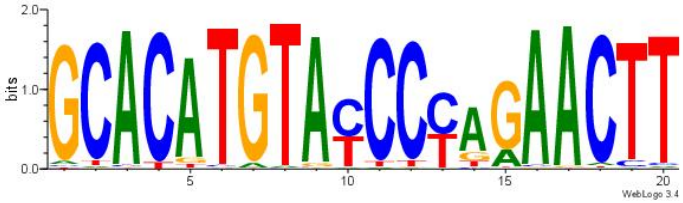

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

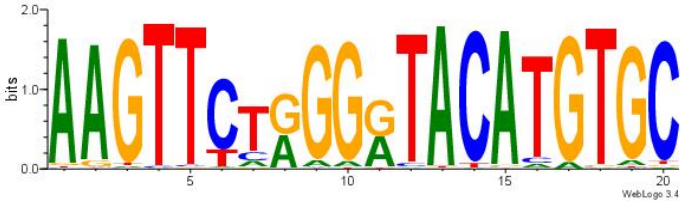

Dataset #: 1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.100897

Alignment:

```
ATTAGCYRGGCRTGGTGGC
----RCAGTGTACACTGY-
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

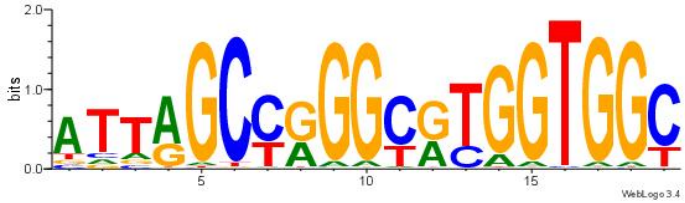

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

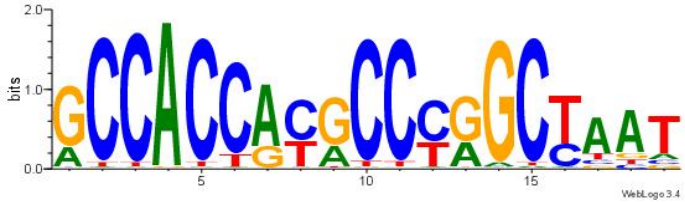

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.101

Alignment:
AAAATGTGGTAYATAYAYAC
-----RCAGTGTACACTGY-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

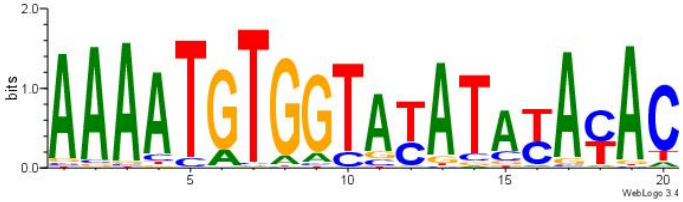

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

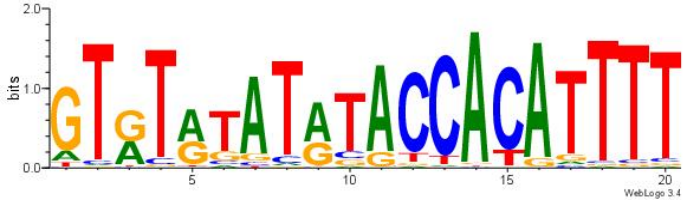

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.10107

Alignment:
AGTGAGAACATRYRRTRTTT
----RCAGTGTACACTGY--

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

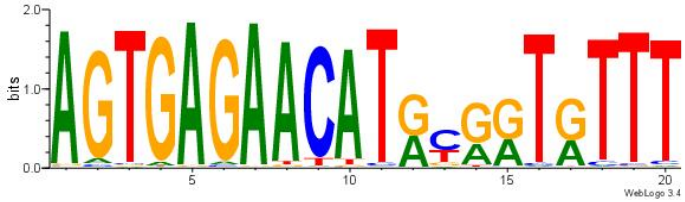

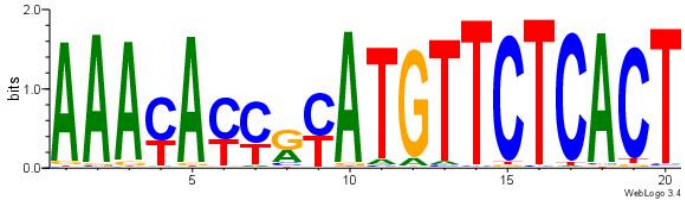

Dataset #: 1 Motif ID: 257 Motif name: Motif 257

Original motif Consensus sequence: GAGAACACATGGACA

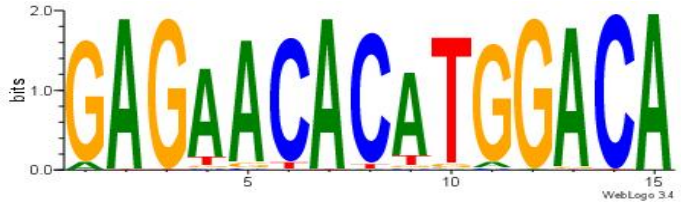

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

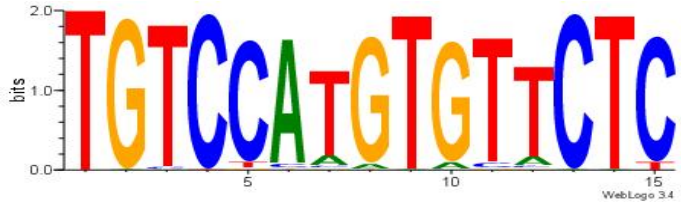

Best Matches for Motif ID 257 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0985209

Alignment:

```
AGTGAGAACATRYRRTRTTT
---GAGAACACATGGACA--
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

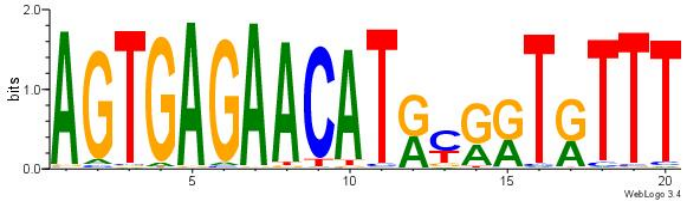

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

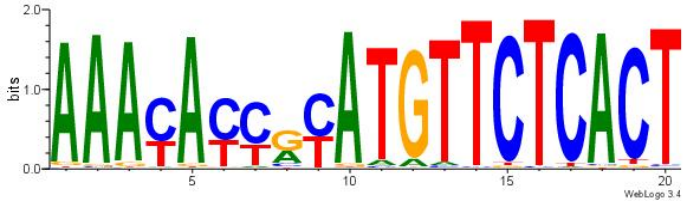

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.10032

Alignment:

```
GGGAGGAAGGGGACAC
GAGAACACATGGACA-
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

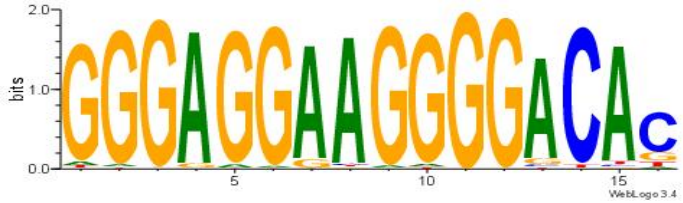

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

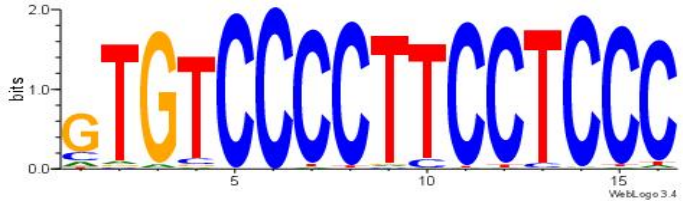

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.100528

Alignment:

```
ACGCCCACGGAGTCTC
TGTCCATGTGTTCTC-
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

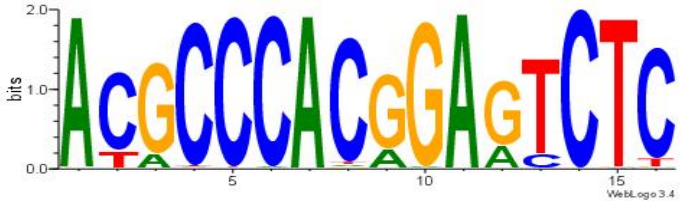

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

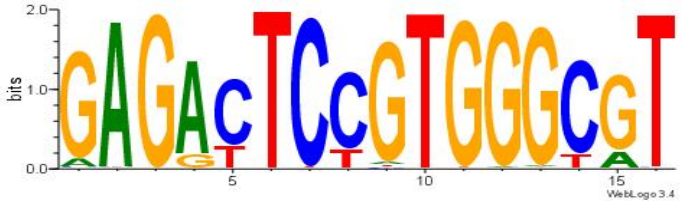

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.102413

Alignment:
GTACCTCAGWTGGAAATG
--GAGAACACATGGACA-

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

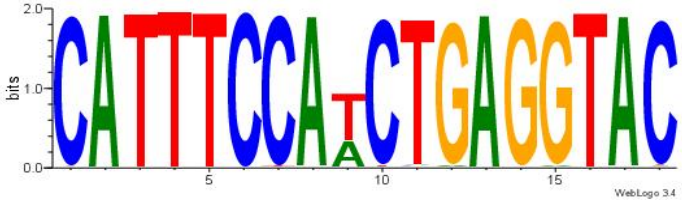

Reverse complement motif Consensus sequence:
GTACCTCAGWTGGAAATG

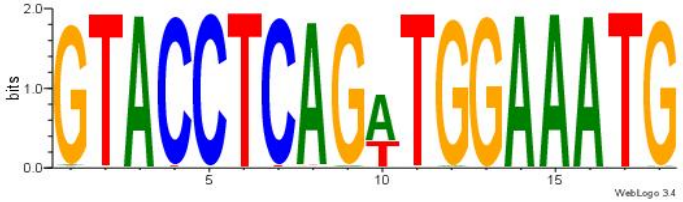

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.103591

Alignment:
GTGGCCCTCTTCTCACAGCT
-TGTCCATGTGTTCTC----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

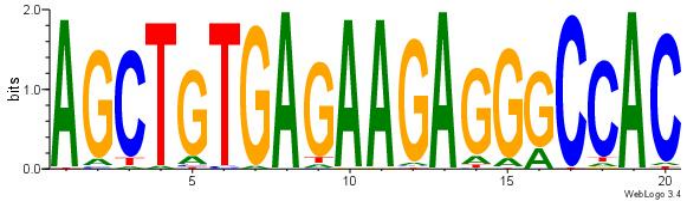

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

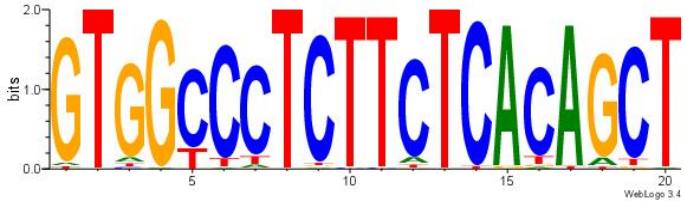

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.103879

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
-TGTCCATGTGTTCTC----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

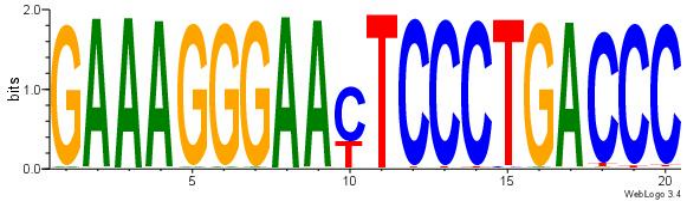

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

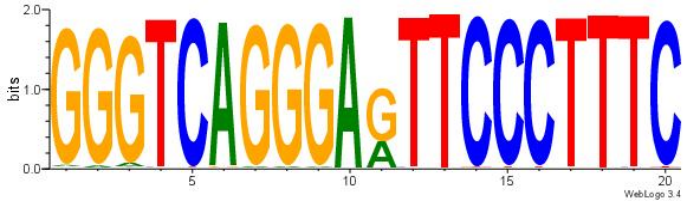

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.103955

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-----TGTCCATGTGTTCTC
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

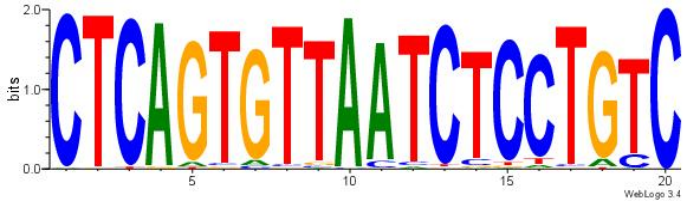

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

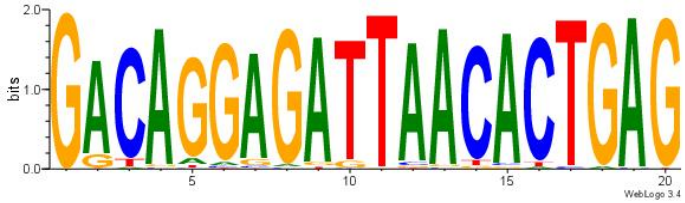

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.104013

Alignment:
AATTAAAAGACACAGACTG
---GAGAACACATGGACA-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

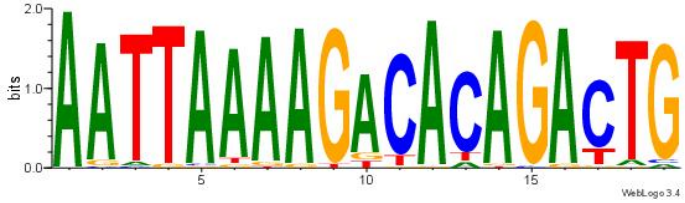

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

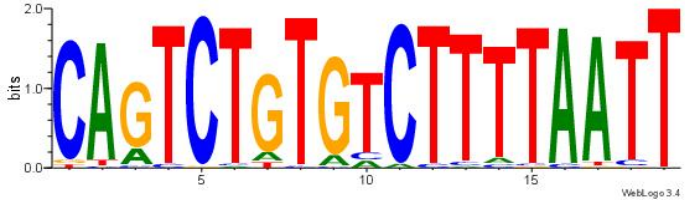

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.107439

Alignment:
CTGAGGACCTGAGGTCRTA
--GAGAACACATGGACA--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

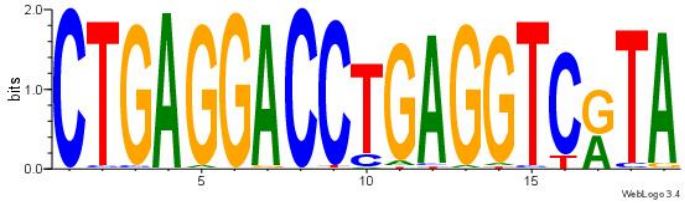

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

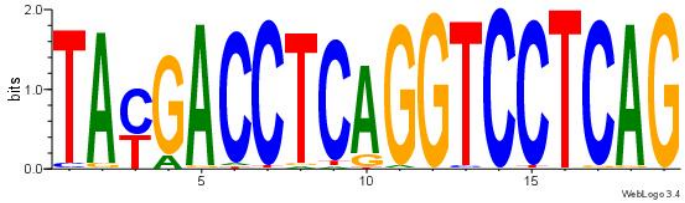

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.109354

Alignment:

```
AGTGACCCGATTTTCCAGGT
--TGTCCATGTGTTCTC---
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

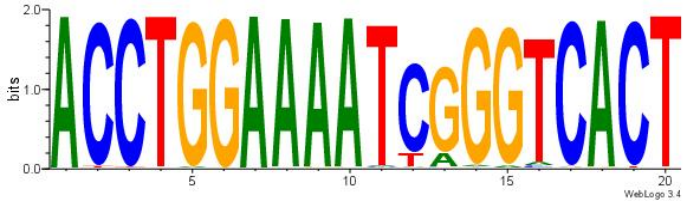

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

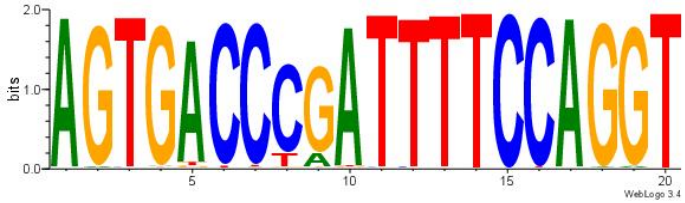

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.110211

Alignment:

```
ACTCAGCCCRCCTGCACCC
---GAGAACACATGGACA-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

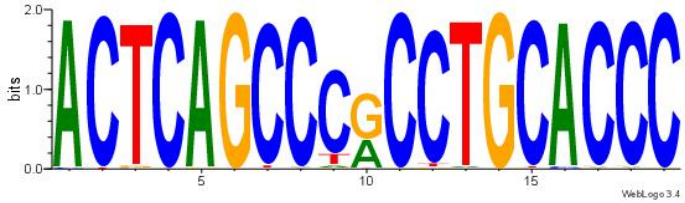

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

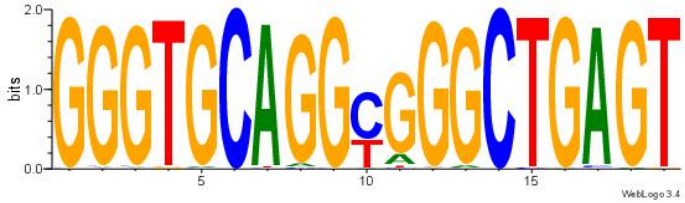

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.110629

Alignment:
CTGGGCRACAGAGYRAGACY
---GAGAACACATGGACA--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

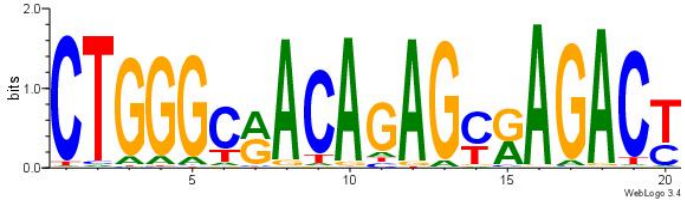

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

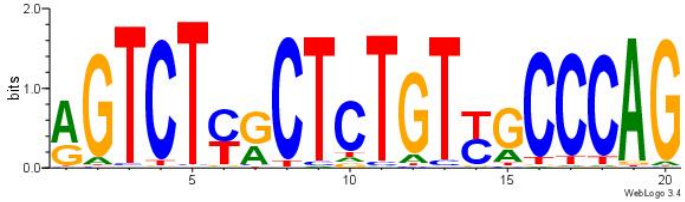

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.111924

Alignment:
HGCTCCTGTGSKCCC
TGTCCATGTGTTCTC

Original motif Consensus sequence: HGCTCCTGTGSKCCC

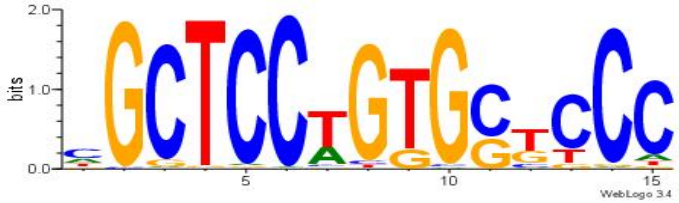

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.112205

Alignment:

```
TYTGTCMTTTTGTGACTGGC
--TGTCCATGTGTTCTC---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

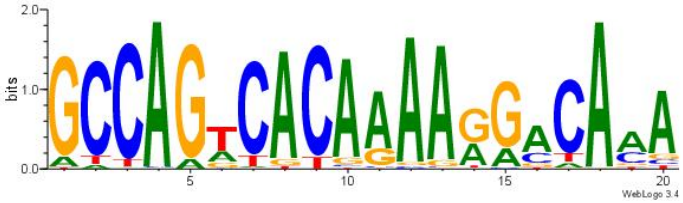

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

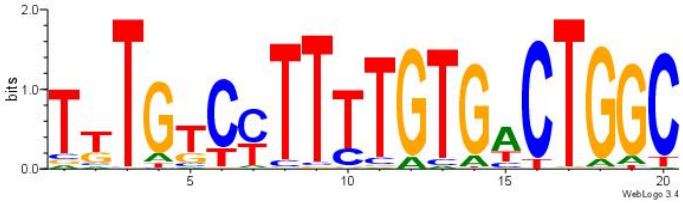

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.114485

Alignment:

```
AATGACCAATTGAGAGC
GAGAACACATGGACA--
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

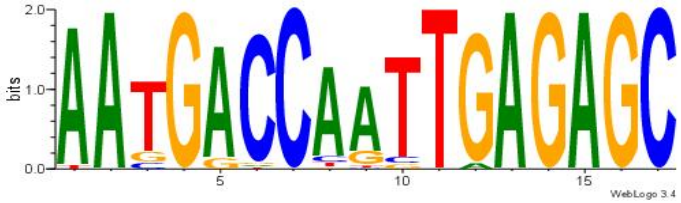

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

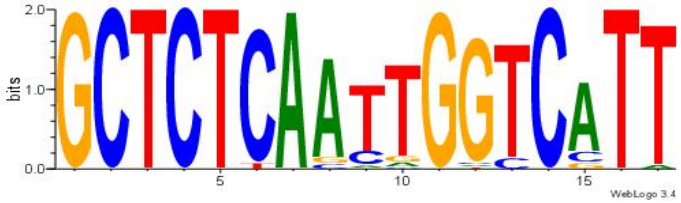

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 15
Similarity score: 0.117154

Alignment:
TTTYTWTTTTTTYTWGAGAC
TGTCCATGTGTTCTC-----

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

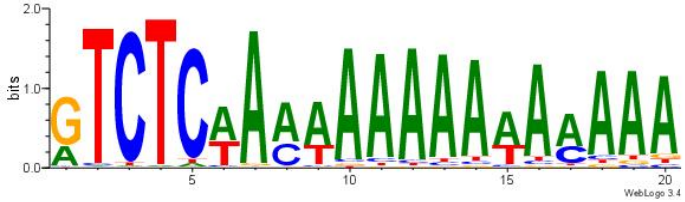

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

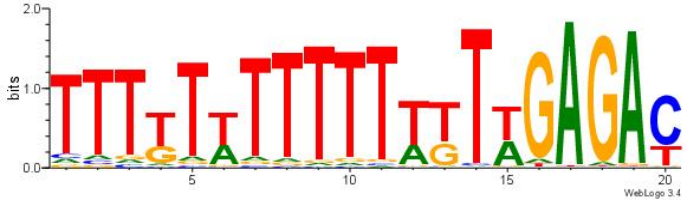

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.117679

Alignment:
ACAGGCTTTGTGTGAGCA
-TGTCCATGTGTTCTC--

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

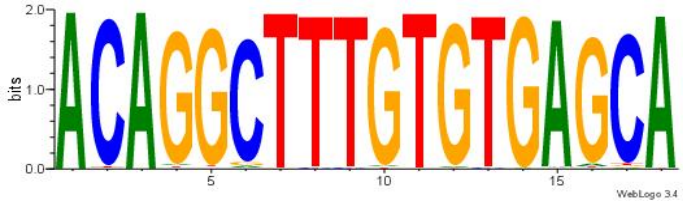

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

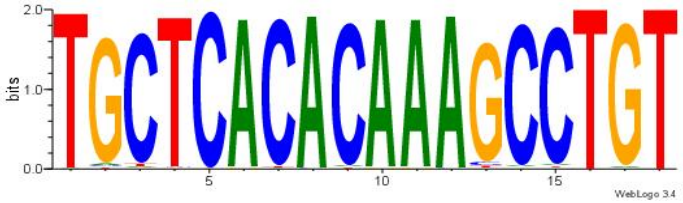

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.118645

Alignment:

```
TAAAAGACTACAWATTGGGT
-----GAGAACACATGGACA
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

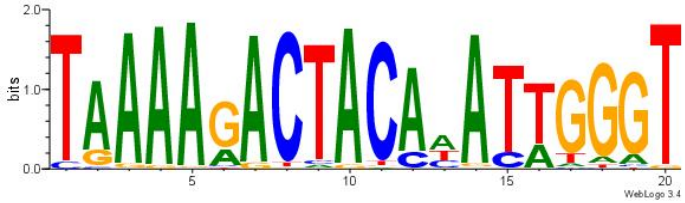

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

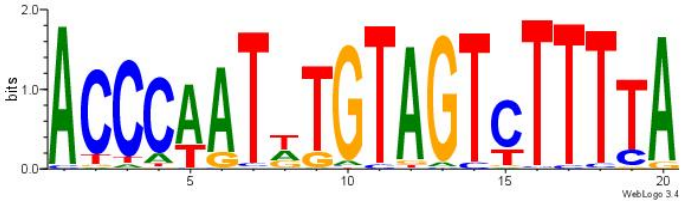

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.119275

Alignment:
TTGGTGGTCTCTTCACA
-TGTCCATGTGTTCTC-

Original motif Consensus sequence: TGTGAAGAGACCACCAA

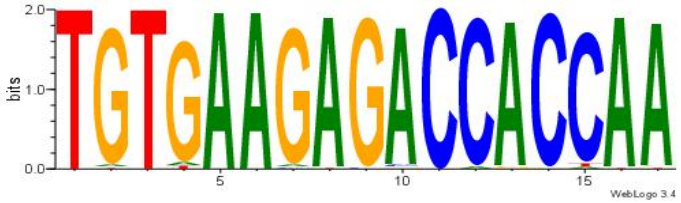

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

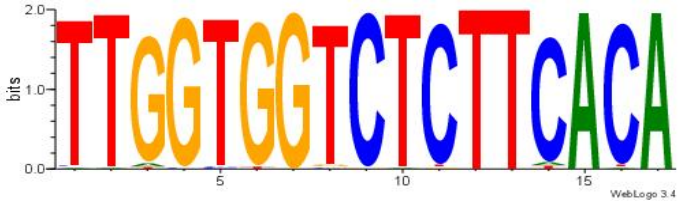

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.120583

Alignment:
AAGGAACAAACTCCRGACAC
----GAGAACACATGGACA-

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

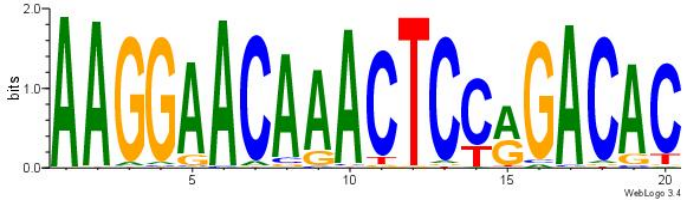

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

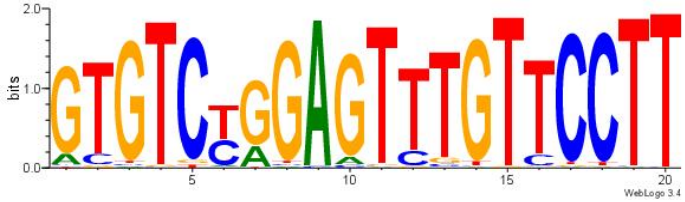

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.120649

Alignment:
AAGAGGTTTAATTGRCTCA
--GAGAACACATGGACA--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

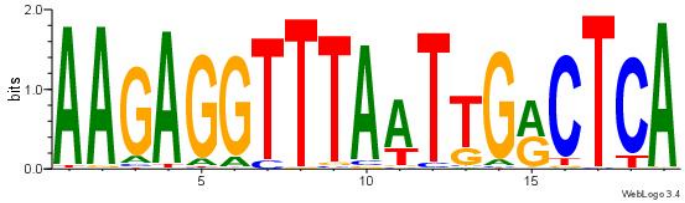

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

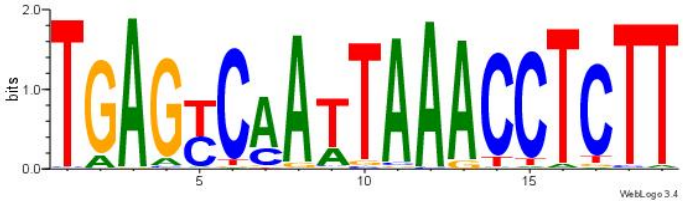

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.121123

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
----GAGAACACATGGACA-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

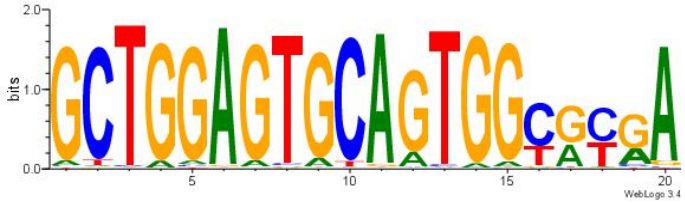

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

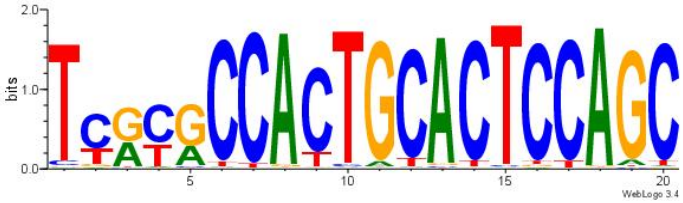

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.121917

Alignment:

```
CTTGCCCAAGGTCACACAGC
--TGTCCATGTGTTCTC---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

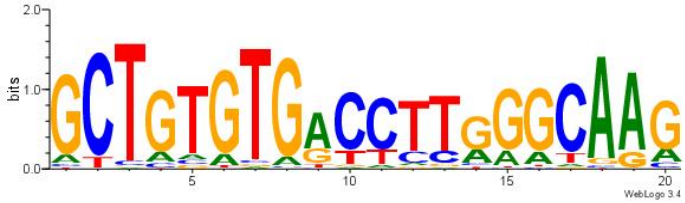

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

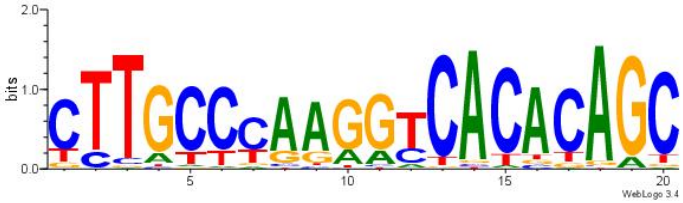

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.122346

Alignment:
TGGCTTCACCCAGTGGATCC
-----TGTCCATGTGTTCTC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

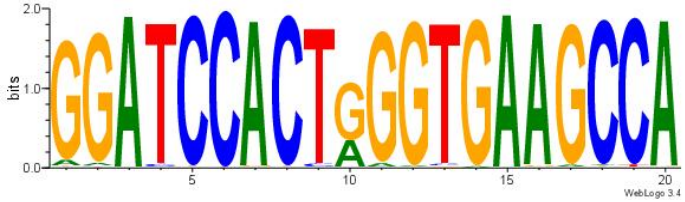

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

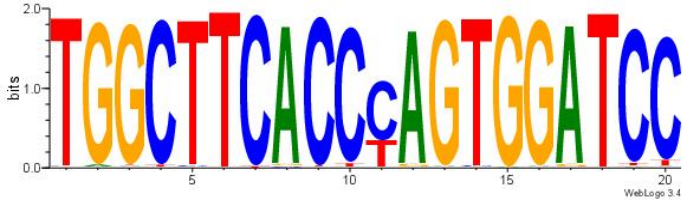

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.122459

Alignment:
ACACACAYACACACACACA
GAGAACACATGGACA----

Original motif Consensus sequence: ACACACAYACACACACACA

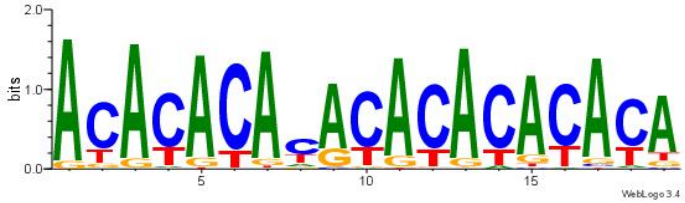

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

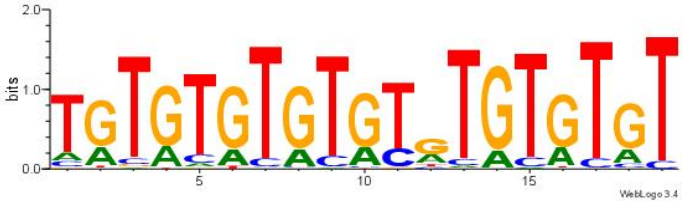

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.1226

Alignment:

```
AATGAKATCATGTCYTTTGC
----TGTCCATGTGTTCTC-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

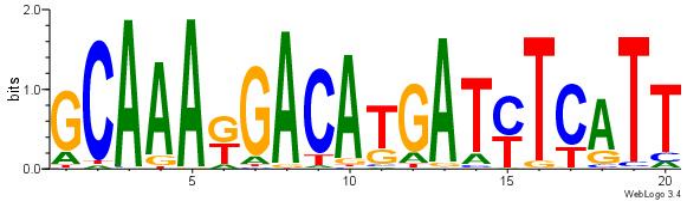

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

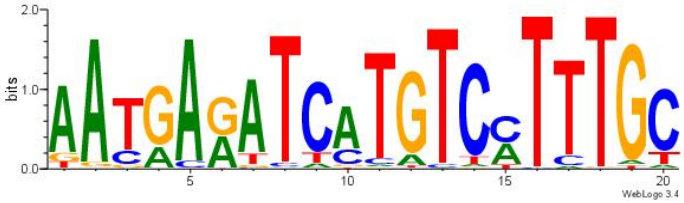

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.122645

Alignment:

```
AAAATCACAAGCATTCCTAT
GAGAACACATGGACA-----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

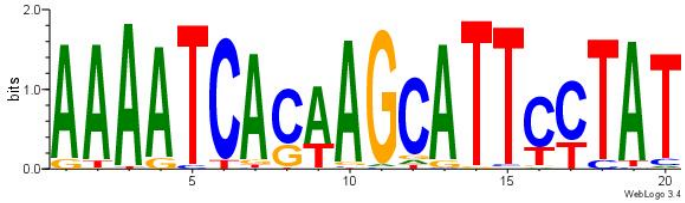

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

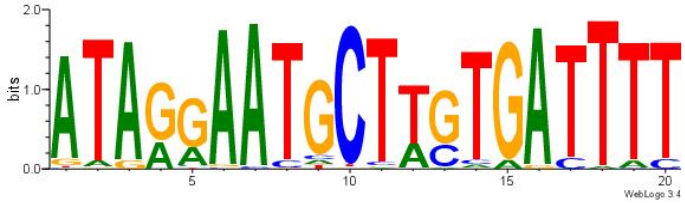

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.122872

Alignment:
CAAGTTGACACATAAAATTA
---GAGAACACATGGACA--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

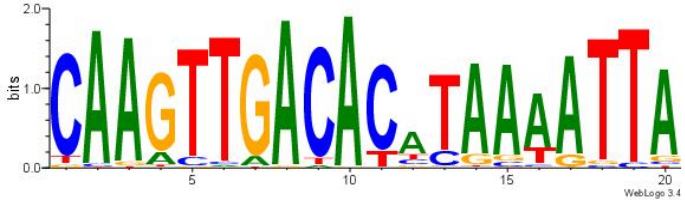

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

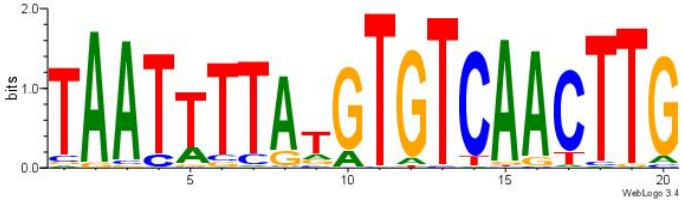

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.123293

Alignment:
CCACCACAGCTCAAGGAGGC
----GAGAACACATGGACA-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

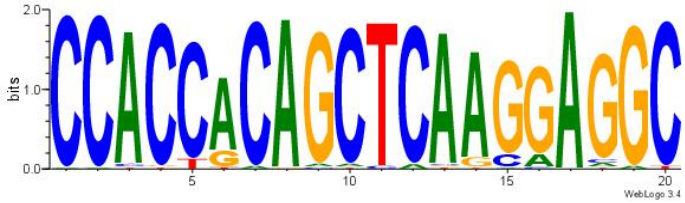

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

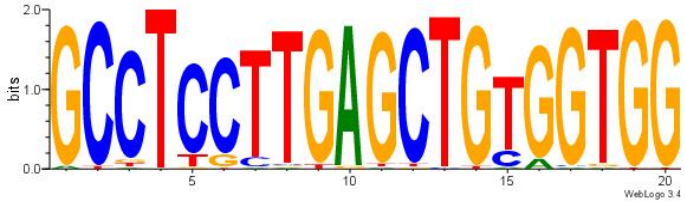

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.123968

Alignment:

```
ATTGATMKCCAGGGTTGATT
-----TGTCCATGTGTTCTC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

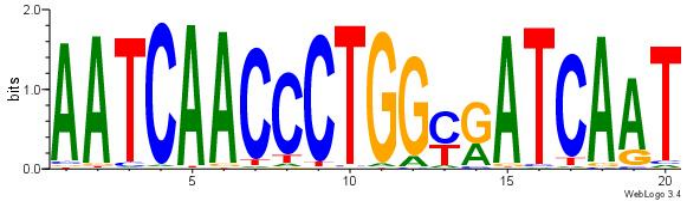

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

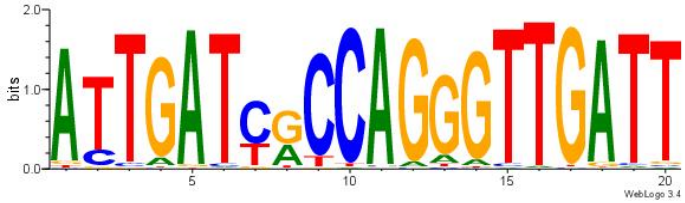

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.125111

Alignment:

```
AGAAAGGCATGTGAAAA
--GAGAACACATGGACA
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

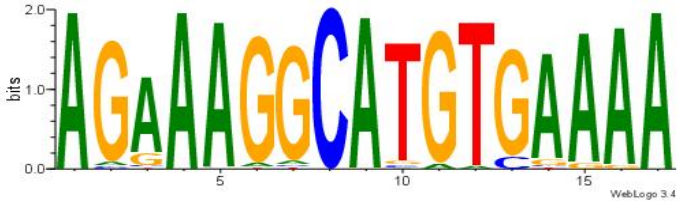

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

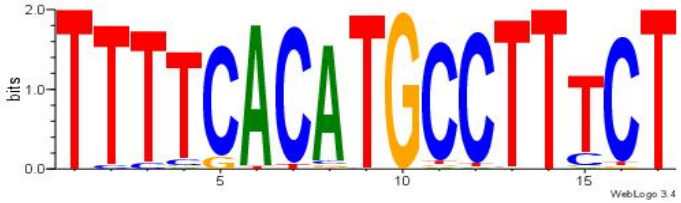

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.125292

Alignment:
GTTTAACCATTGAGGGCCAG
----GAGAACACATGGACA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

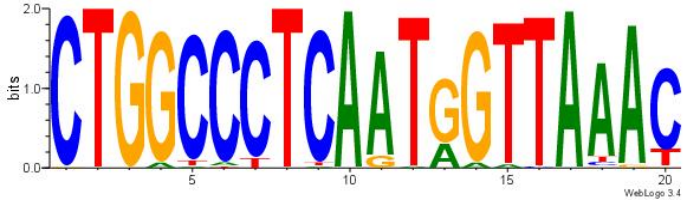

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

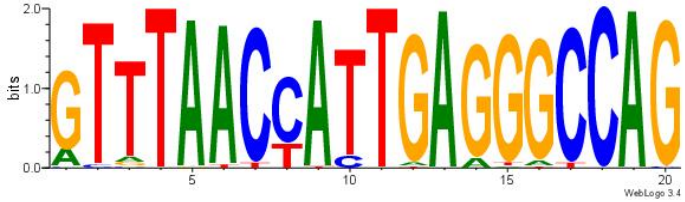

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.125515

Alignment:
GATACAAAATCAATGTR
GAGAACACATGGACA--

Original motif Consensus sequence: GATACAAAATCAATGTR

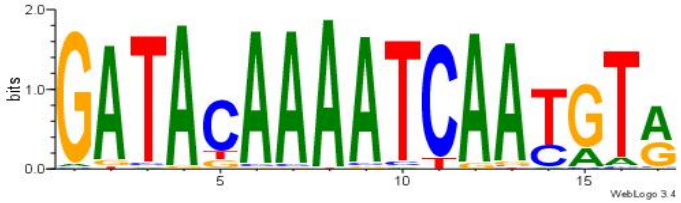

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

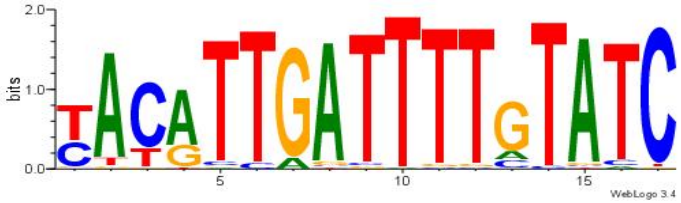

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.125925

Alignment:

```
GCTTAGCACCYGGGCCAGC
-GAGAACACATGGACA---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

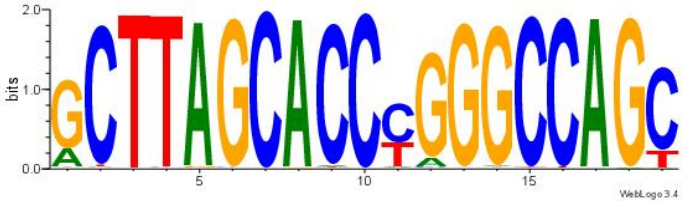

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

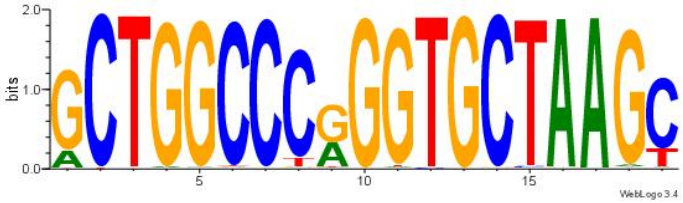

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.12601

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-TGTCCATGTGTTCTC----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

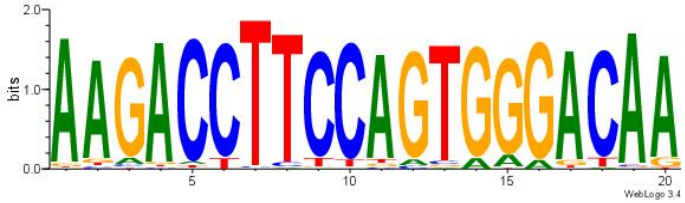

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

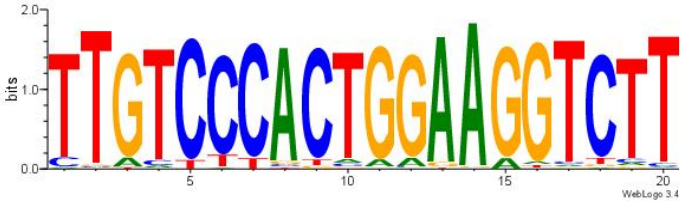

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.126062

Alignment:
AGCCCCGGTTCCCGCYCGC
----TGTCCATGTGTTCTC

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

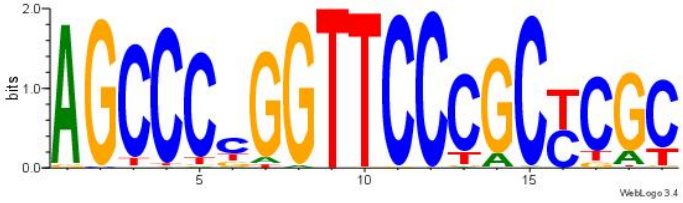

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

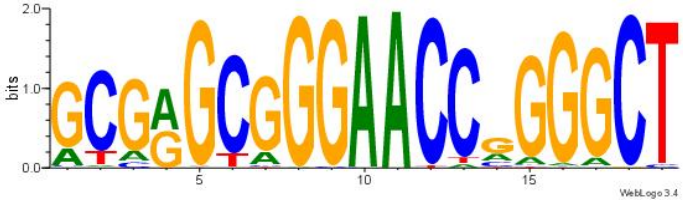

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.126704

Alignment:
GAAACTGCTTTGTGATGTGT
-----GAGAACACATGGACA

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

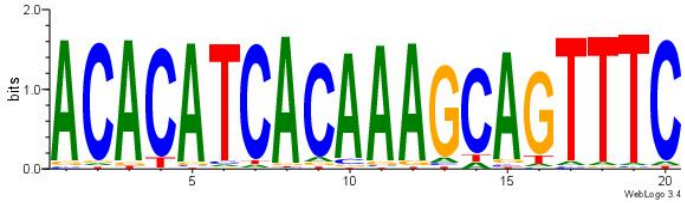

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

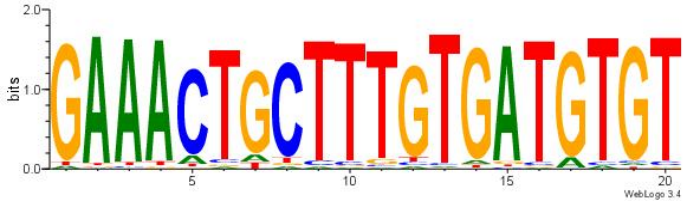

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.126778

Alignment:

```
ACTTTGGACTGTGGACTTTT
---TGTCCATGTGTTCTC--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

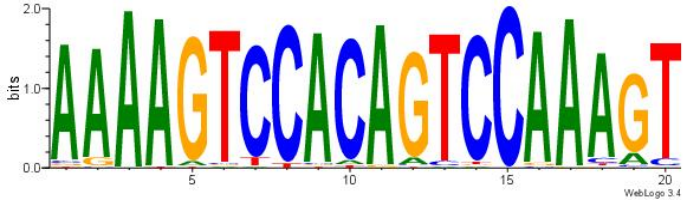

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

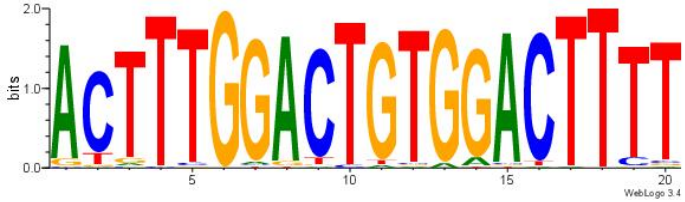

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.126999

Alignment:

```
KGGGCDGAGGGGCTCCT
TGTCCATGTGTTCTC--
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

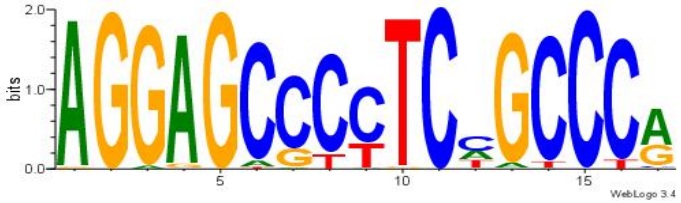

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 15
Similarity score: 0.127275

Alignment:
AAGTTCTKGGKTACATGTGC
-TGTCCATGTGTTCTC----

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

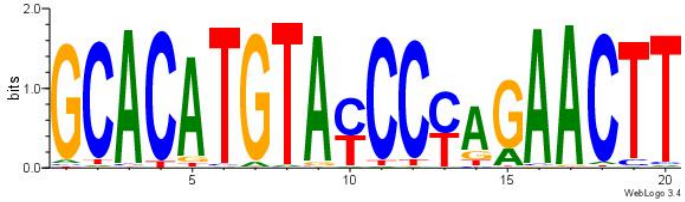

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

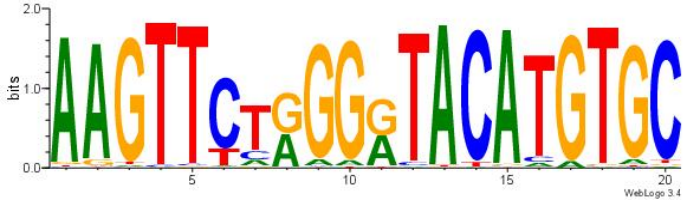

Dataset #: 1
Motif ID: 279
Motif name: Motif 279
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.127726

Alignment:
MGTGTGATGTCTCCCCC
-TGTCCATGTGTTCTC-

Original motif Consensus sequence: GGGGGAGACATCACACR

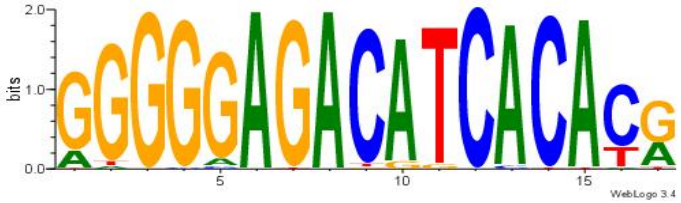

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

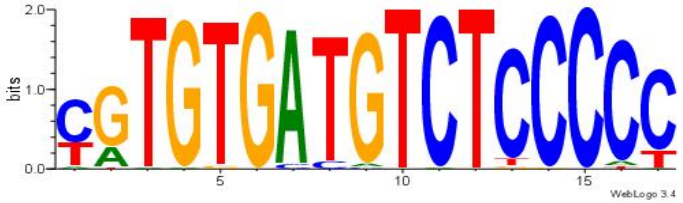

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.1282

Alignment:

```
ATTCAASATGAGATTTGGG
--TGTCCATGTGTTCTC--
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

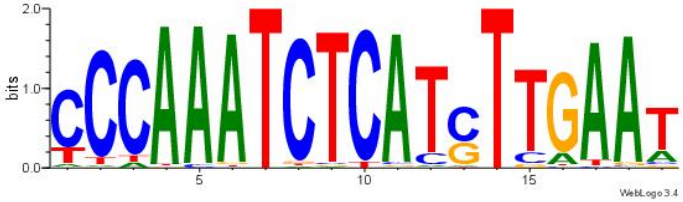

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

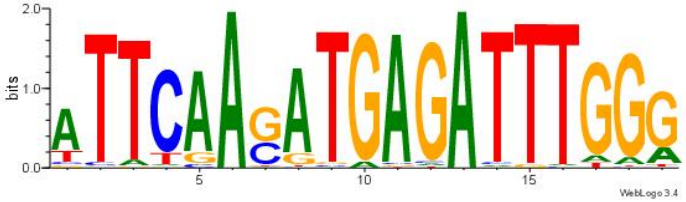

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.128242

Alignment:

```
TCTGGAGTGGACCTCCAGCA
----GAGAACACATGGACA-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

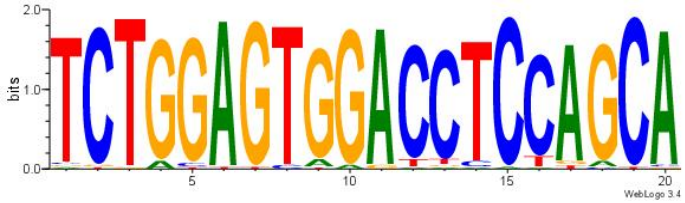

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

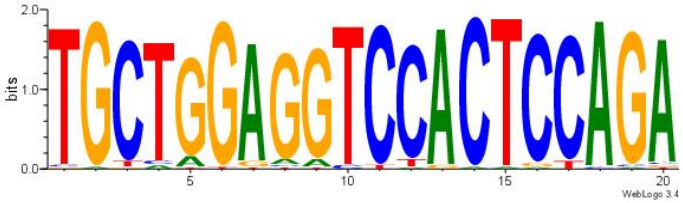

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.128634

Alignment:
AGATGCCAGCCAGAGCTCT
---TGTCCATGTGTTCTC-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

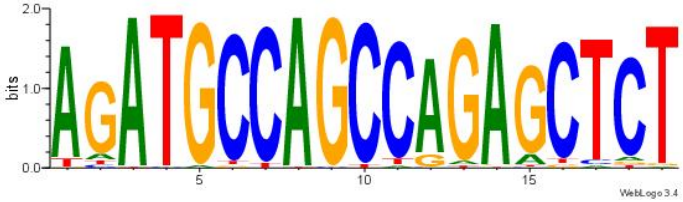

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

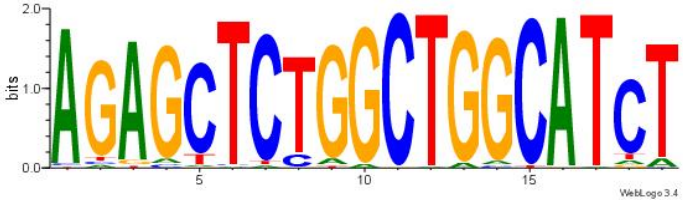

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.128701

Alignment:
ATGGACAYTTRGGTTGHTTC
GAGAACACATGGACA-----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

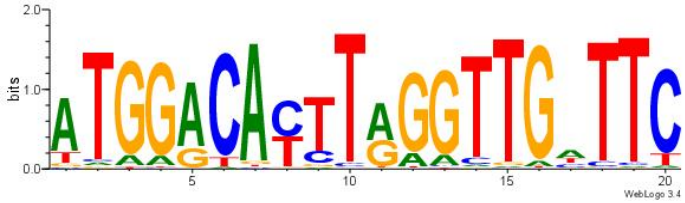

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

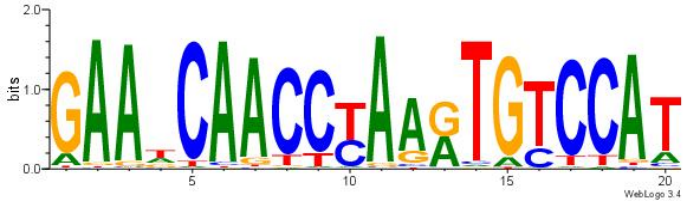

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.129036

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
----TGTCCATGTGTTCTC-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

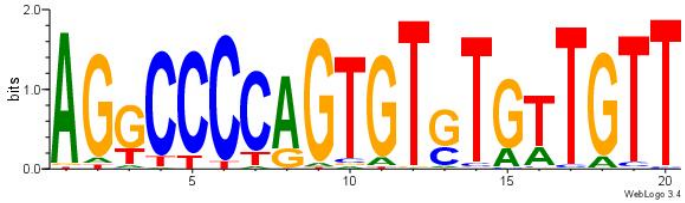

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

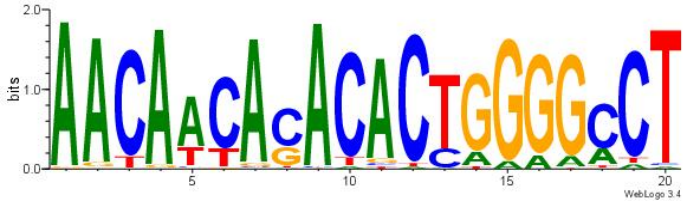

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.129217

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-TGTCCATGTGTTCTC----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

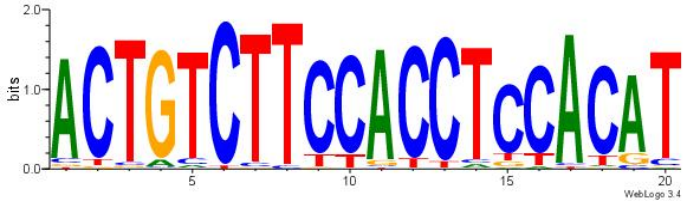

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

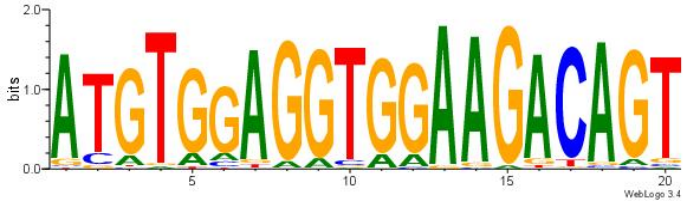

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.129217

Alignment:
ATTGGTGTATTTACAATCCC
--TGTCCATGTGTTCTC---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

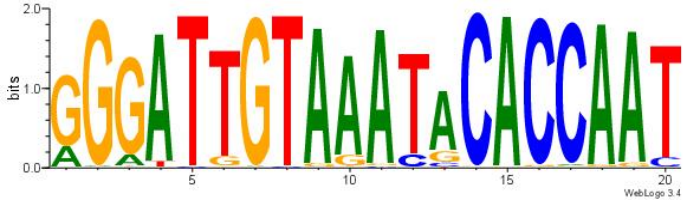

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.129344

Alignment:
GAATACCTCCTGAAGGACCT
----GAGAACACATGGACA-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

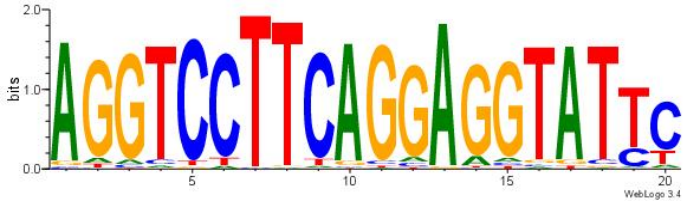

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

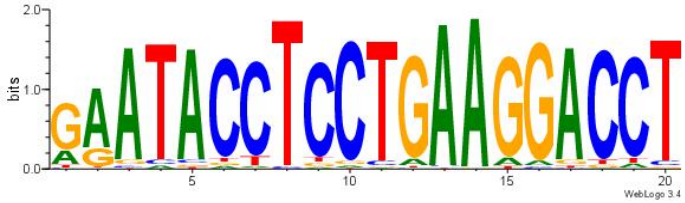

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.129454

Alignment:

```
CAGACTGCCTCCTCAA
GAGAACACATGGACA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

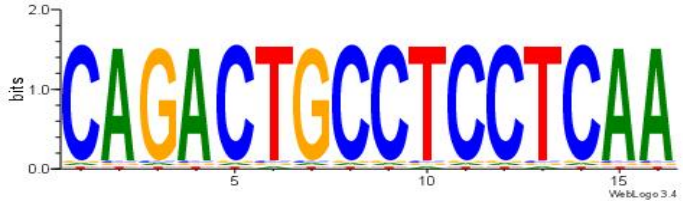

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

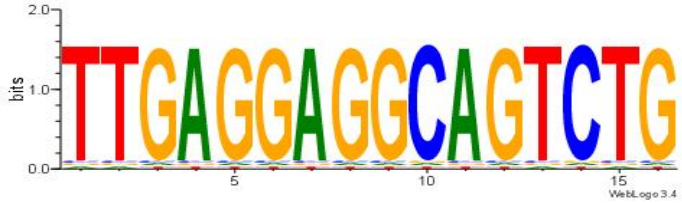

Dataset #: 1 Motif ID: 258 Motif name: Motif 258

Original motif Consensus sequence: CCACCAACAGTGTAY

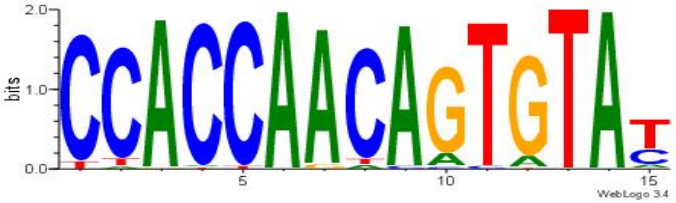

Reverse complement motif Consensus sequence: MTACACTGTTGGTGG

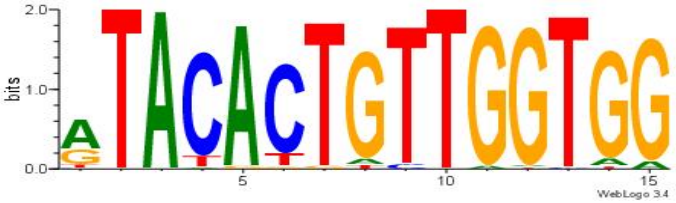

Best Matches for Motif ID 258 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0771788

Alignment:

```
GGGCTCCCACAGTGCAGCGG
---CCACCAACAGTGTAY--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

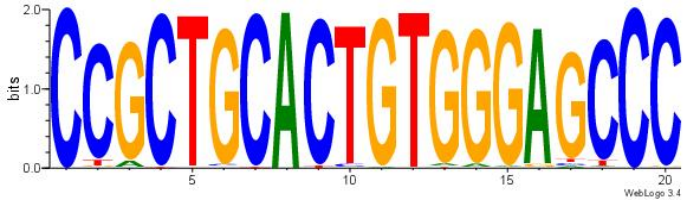

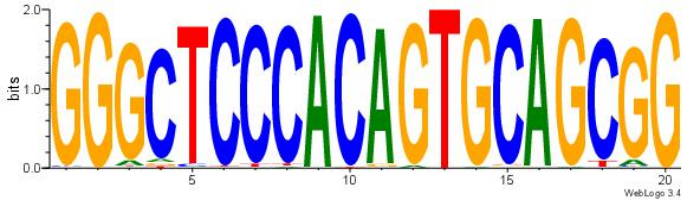

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0810042

Alignment:

```
ATAAAAACTTGCTGGTTTT
MTACACTGTTGGTGG----
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

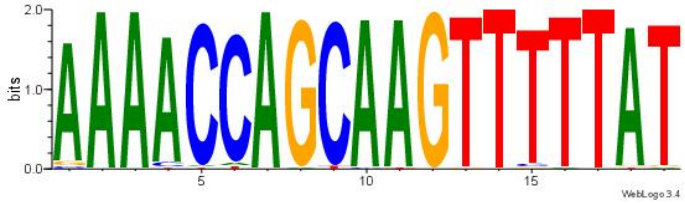

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

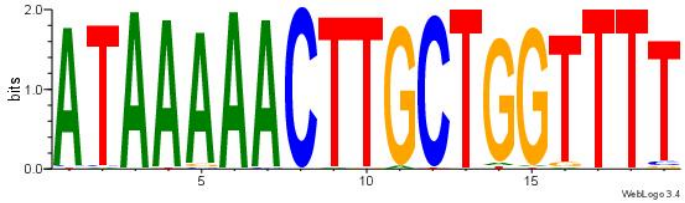

Dataset #:	1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0921216

Alignment:

```
GKCTGTACCCCCATTGTAT
CCACCAACAGTGTAY----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

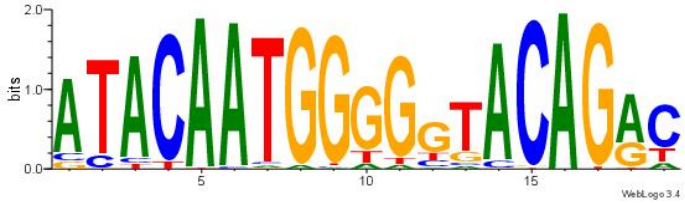

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

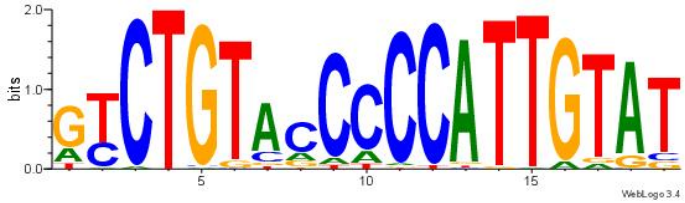

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.0987651

Alignment:
AGGAACAGCTCCRGTCTAC
----CCACCAACAGTGTAY

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

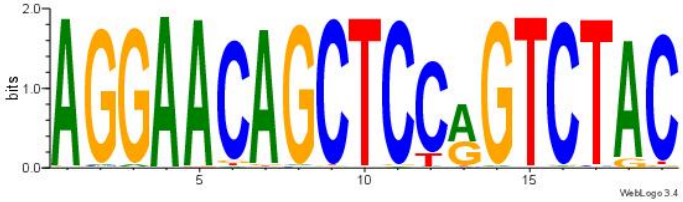

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

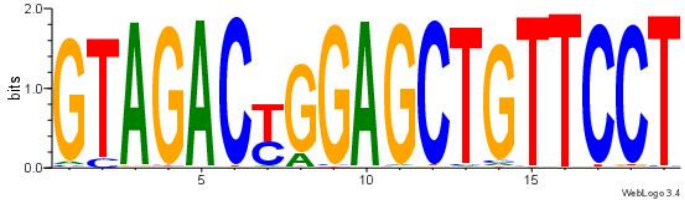

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.103803

Alignment:
ACGCCCACGGAGTCTC
CCACCAACAGTGTAY-

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

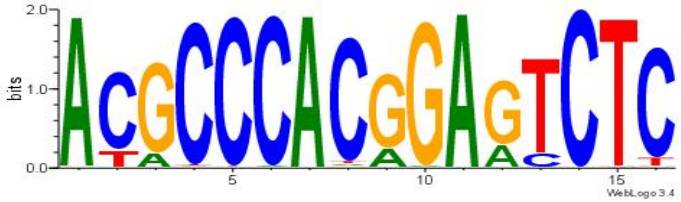

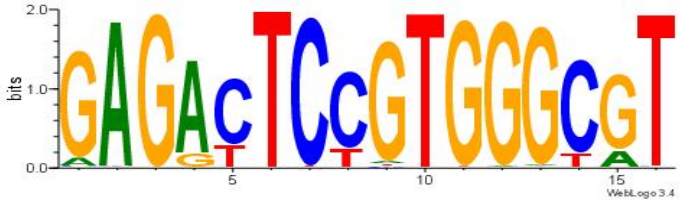

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.104673

Alignment:

```
AAGTCCAAGATCAAGGTGYY
----CCACCAACAGTGTAY-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

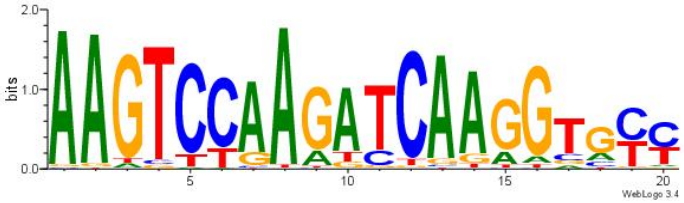

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

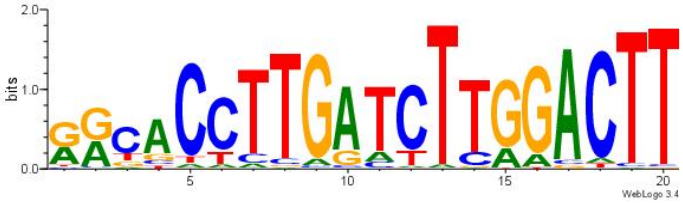

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.107431

Alignment:

```
GGATCCACTGGGTGAAGCCA
---MTACACTGTTGGTGG--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

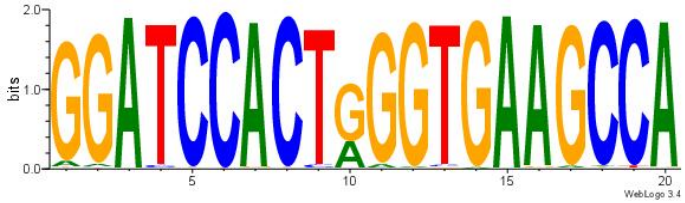

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

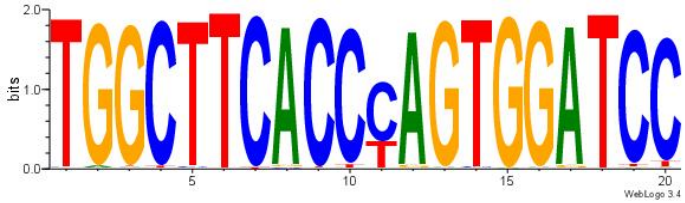

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.107529

Alignment:
GCTCCACCCAGTTCGAGCTT
---MTACACTGTTGGTGG--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

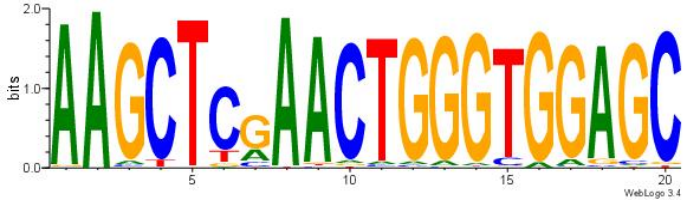

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

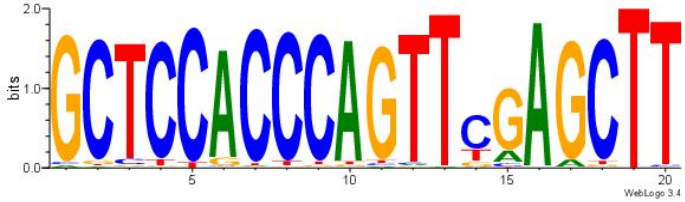

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.107985

Alignment:
CTGGCCCTCAATGGTTAAAC
----CCACCAACAGTGTAY-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

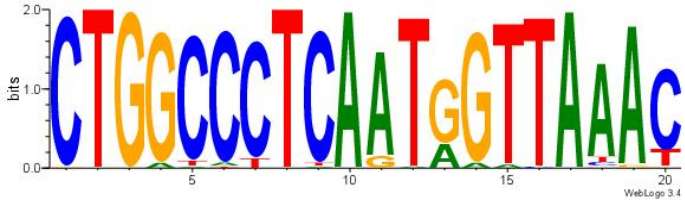

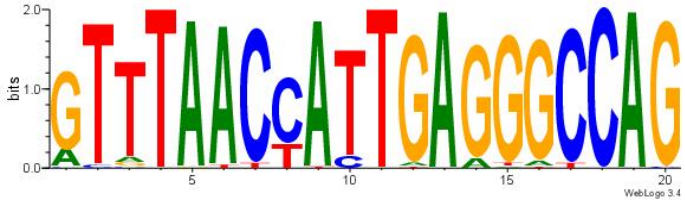

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.108186

Alignment:

```
AGCTAGAYACAGAGTGC
--CCACCAACAGTGTAY
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

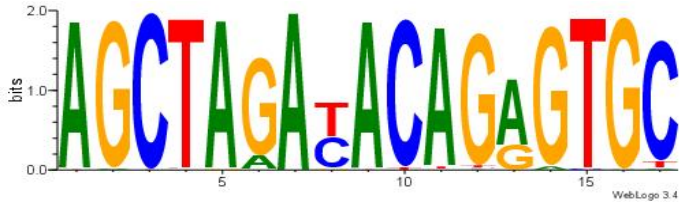

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

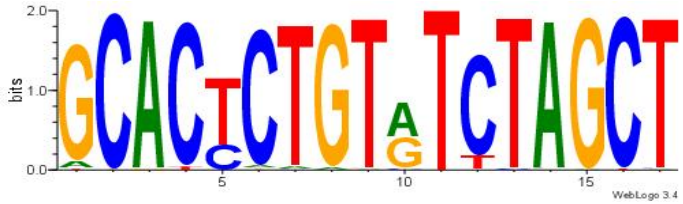

Dataset #:	1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.108299

Alignment:

```
CGGCTTCATTCTTGAAGTC
---MTACACTGTTGGTGG-
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

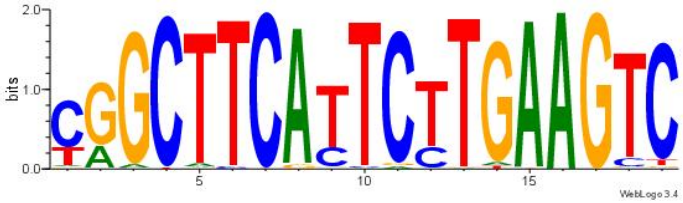

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15

Similarity score: 0.108693

Alignment:
ACCKTCGCGGTGAGTGTTAC
--MTACACTGTTGGTGG---

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

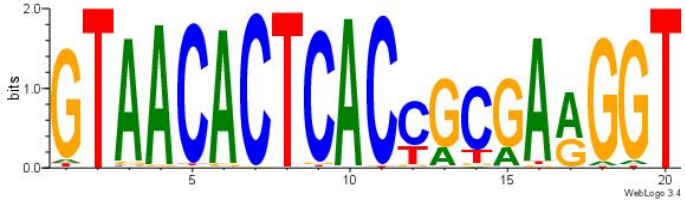

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

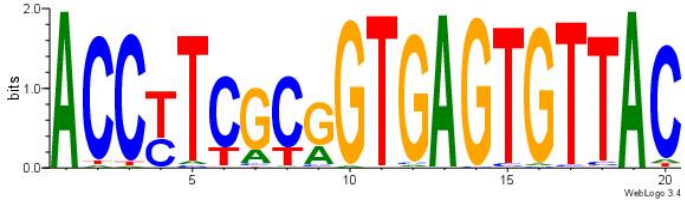

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.108739

Alignment:
GCCTCCTTGAGCTGTGGTGG
-----MTACACTGTTGGTGG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

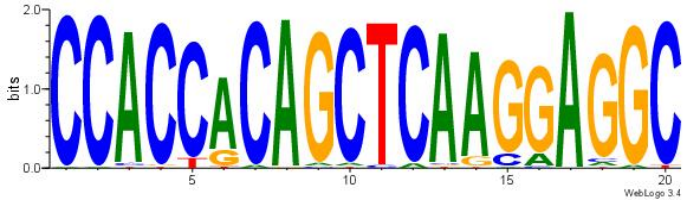

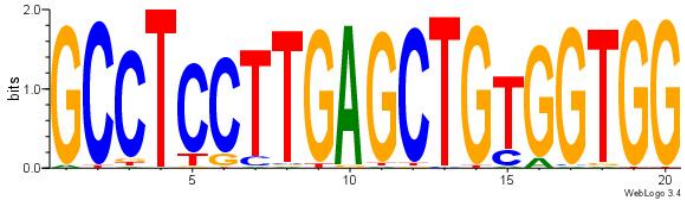

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.111176

Alignment:

```
ATGGACAYTTRGGTTGHTTC
---MTACACTGTTGGTGG--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

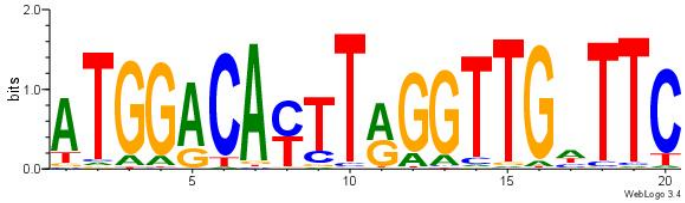

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

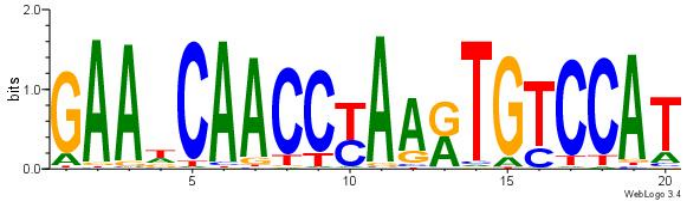

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.112232

Alignment:

```
TACCTGAGACTGGGTAATTT
---CCACCAACAGTGTAY--
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

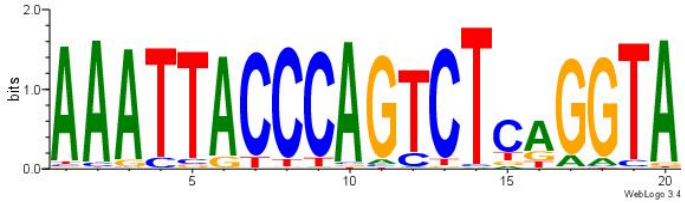

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

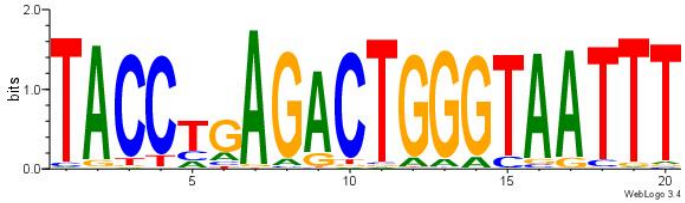

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.112956

Alignment:
CMTAGYACAGTGCCTGGCAC
-----CCACCAACAGTGTAY

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

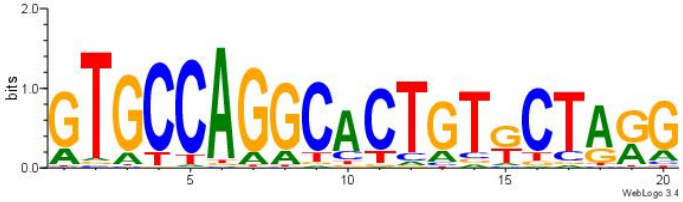

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

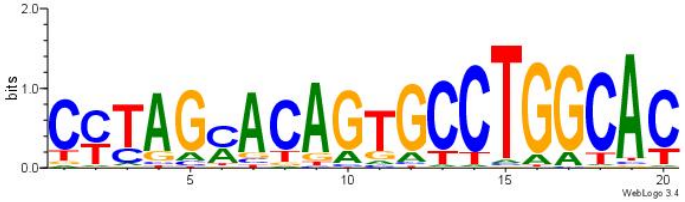

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.113823

Alignment:
CCCCGGGCAGTGAGGG
-CCACCAACAGTGTAY

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

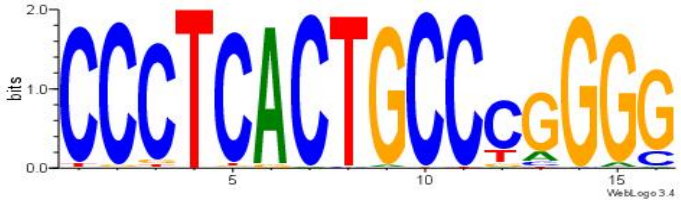

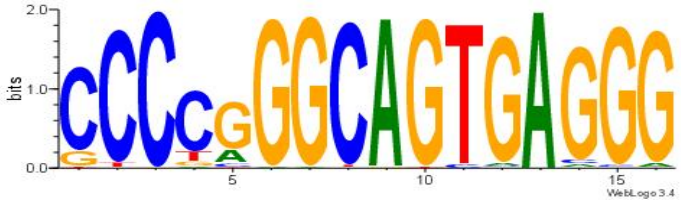

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.113883

Alignment:

```
TTYTTGTTGTTGTTGTT
-MTACACTGTTGGTGG-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

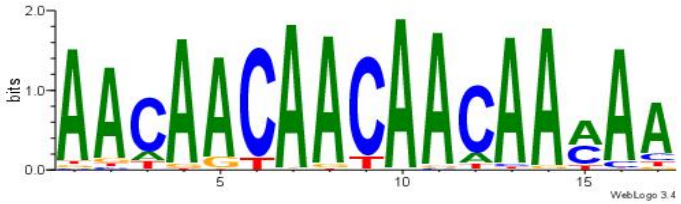

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

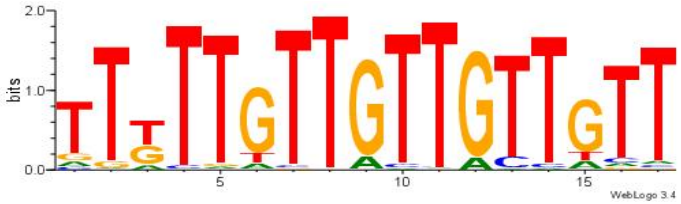

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.114553

Alignment:

```
AGGAGRCMCTCTGCCTGGC
---MTACACTGTTGGTGG-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

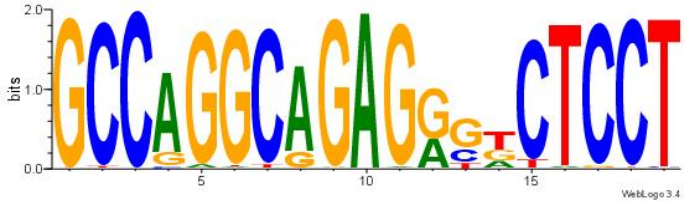

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

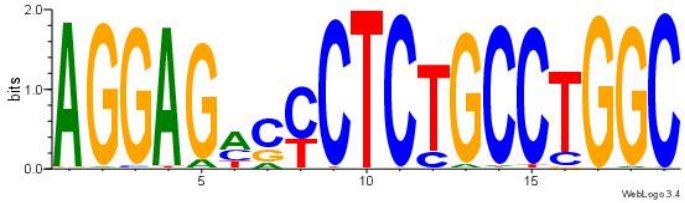

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.115474

Alignment:
AACAACASACACTGGGGCCT
---CCACCAACAGTGTAY--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

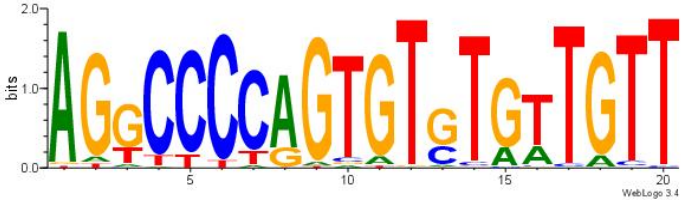

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

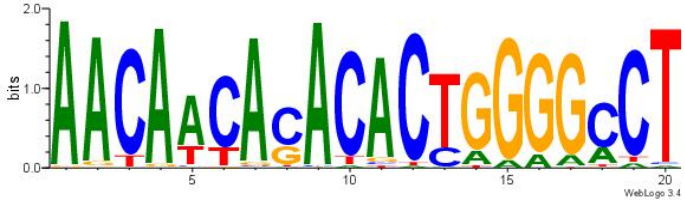

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.116869

Alignment:
ACAGGCTTTGTGTGAGCA
---MTACACTGTTGGTGG

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

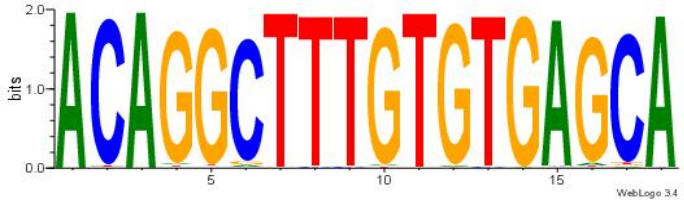

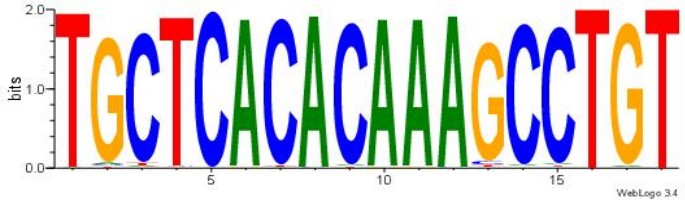

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.117464

Alignment:

```
ATTAGCYRGGCRTGGTGGC
-MTACACTGTTGGTGG---
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

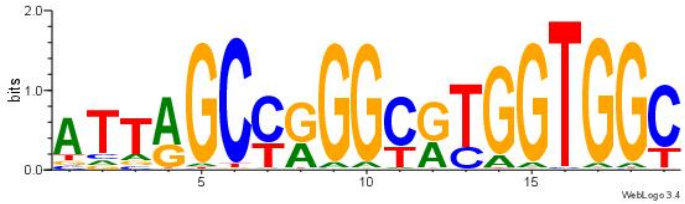

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

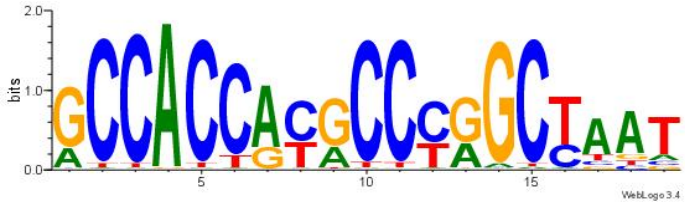

Dataset #:	1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.117472

Alignment:

```
AGACAGTGGGYGCAGGHCA
----MTACACTGTTGGTGG
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

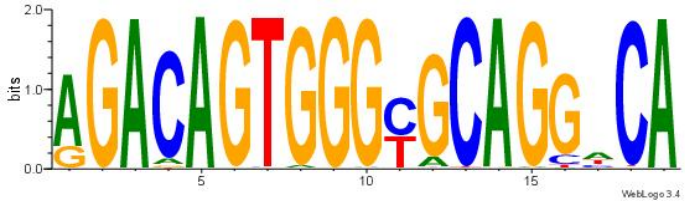

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

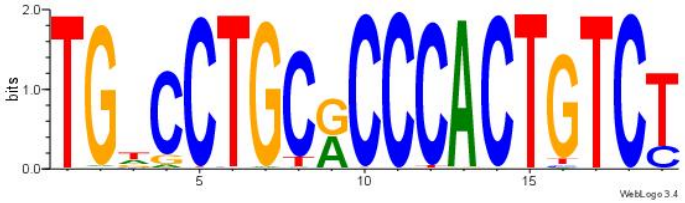

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.117827

Alignment:
AAAGTGCCGAGAKTGCAGC
---CCACCAACAGTGTAY-

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

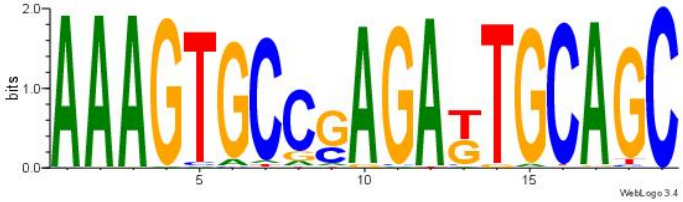

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

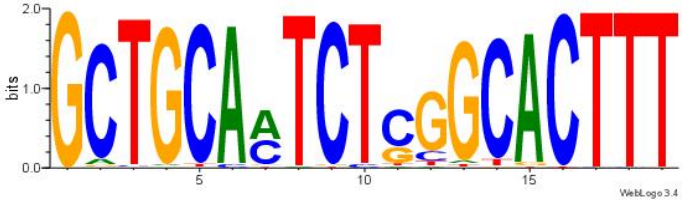

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.118158

Alignment:
AGTGAGAACATRYRRTRTTT
-----CCACCAACAGTGTAY

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

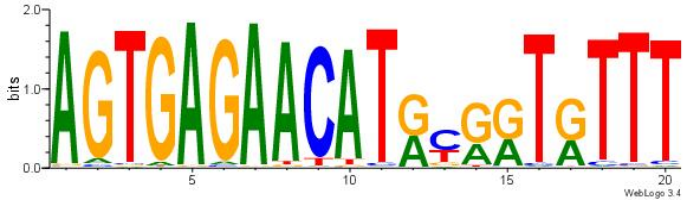

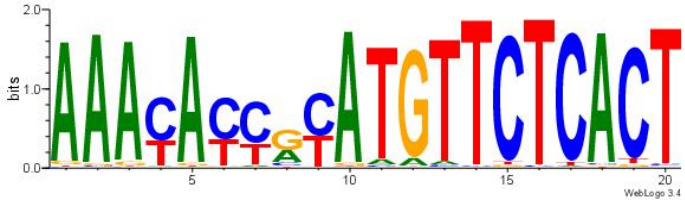

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.118546

Alignment:

```
AGTTCCGGGTGGGCGTGGG
---MTACACTGTTGGTGG-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

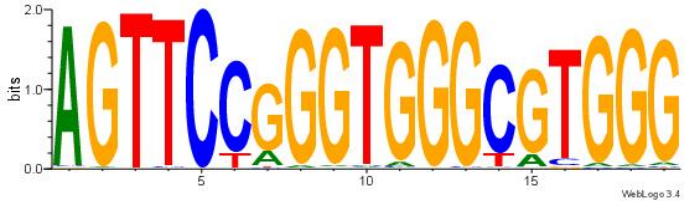

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

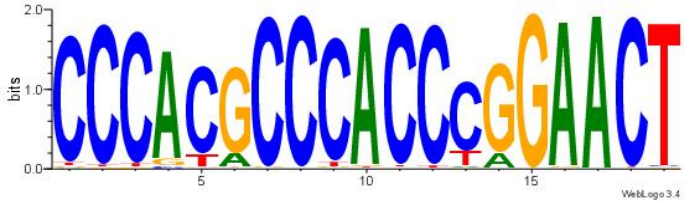

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.119176

Alignment:

```
GAATCCTGGGACAGCCTGT
----CCACCAACAGTGTAY
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

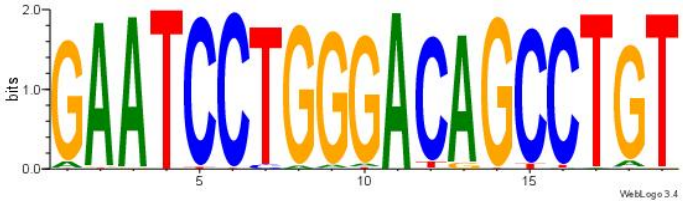

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

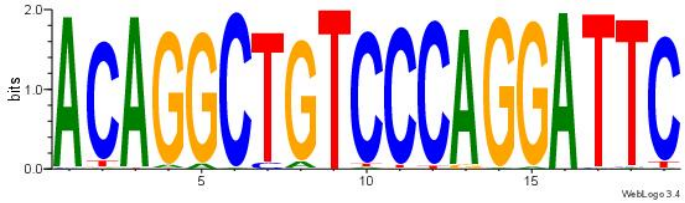

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.119307

Alignment:
CGTCGCTCACGCTGGGAGCT
MTACACTGTTGGTGG-----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

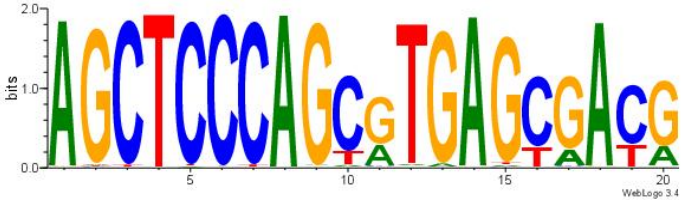

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

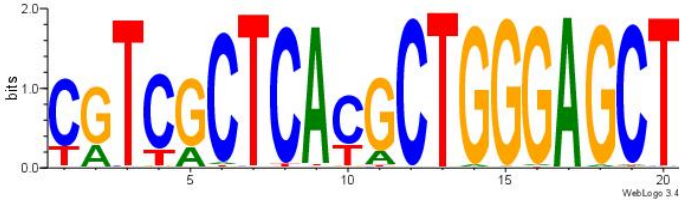

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.119316

Alignment:
GACATGAGCTGGCGCTTG
---MTACACTGTTGGTGG

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

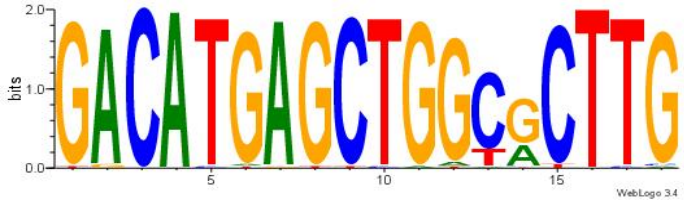

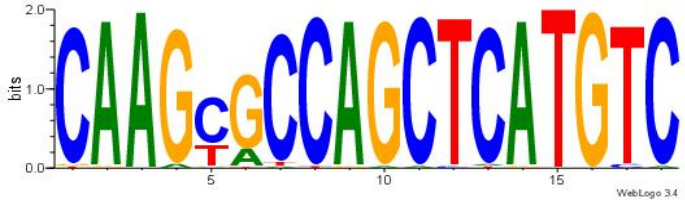

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.120175

Alignment:
MGTCTMKCTCTGTKGCCCAG
MTACACTGTTGGTGG-----

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

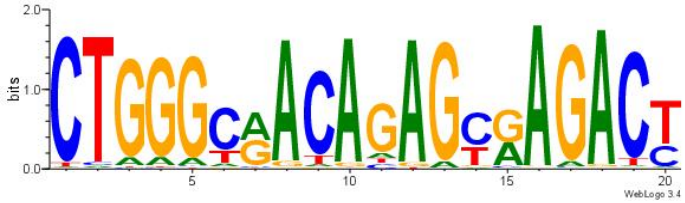

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

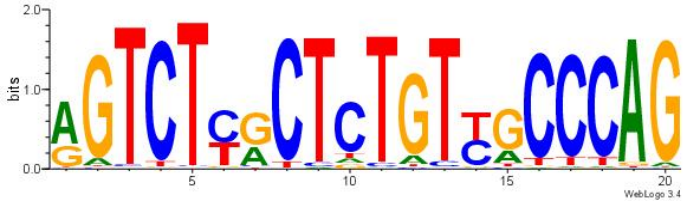

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.121038

Alignment:

```
AACCCTATTGTGAACTGYG
CCACCAACAGTGTAY----
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

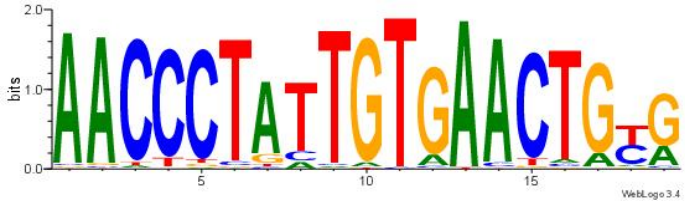

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

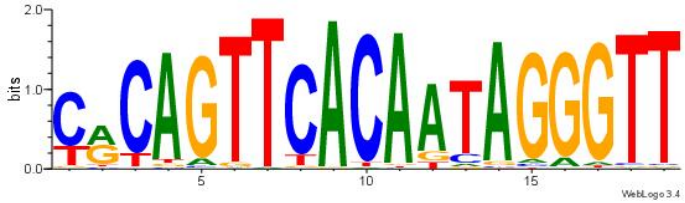

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.121299

Alignment:
CTCCTGCCTCAGCCTCCCRA
--CCACCAACAGTGTAY---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

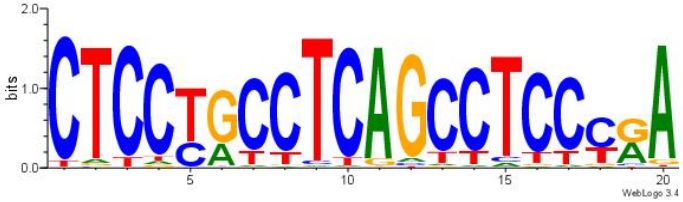

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

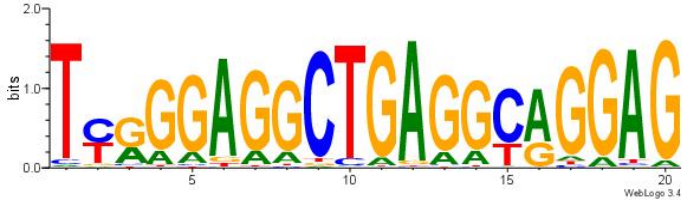

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.12139

Alignment:
ATTGATMKCCAGGGTTGATT
---CCACCAACAGTGTAY--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

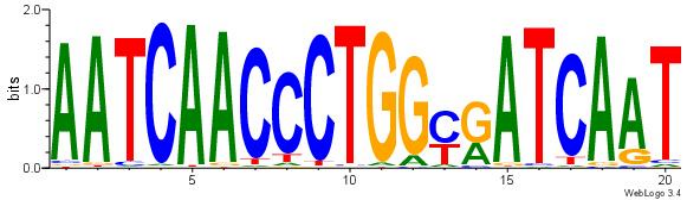

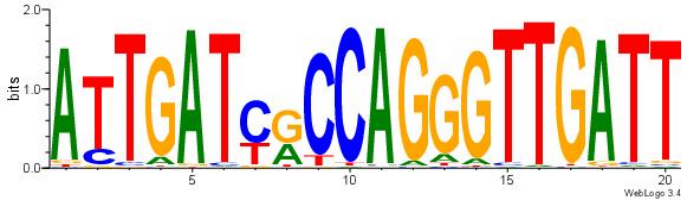

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.121394

Alignment:

```
GATACAAAATCAATGTR
-MTACACTGTTGGTGG-
```

Original motif Consensus sequence: GATACAAAATCAATGTR

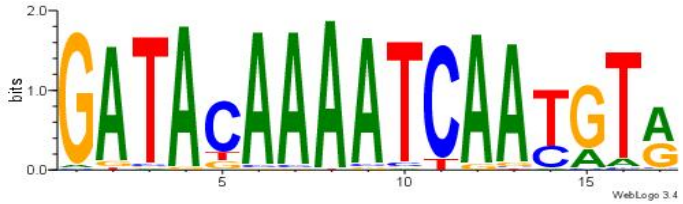

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

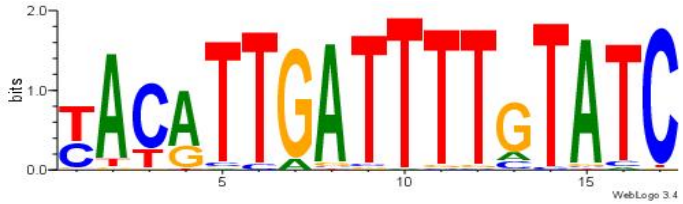

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.121547

Alignment:

```
GTCCCATCGACCACCCAAG
---CCACCAACAGTGTAY-
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

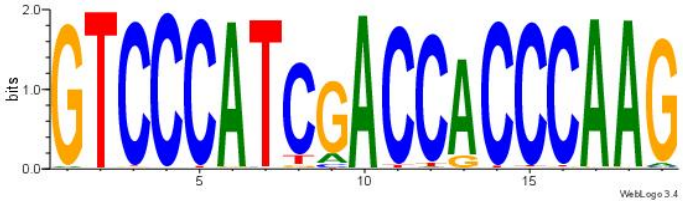

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

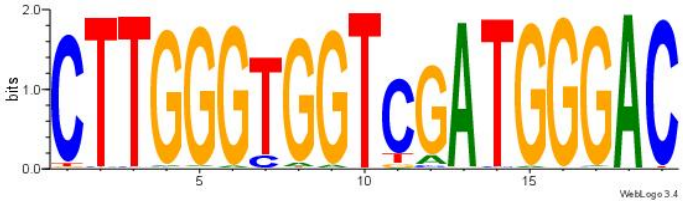

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15

Similarity score: 0.122055

Alignment:
MGGGATATAATCTCCTGGTG
----MTACACTGTTGGTGG-

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

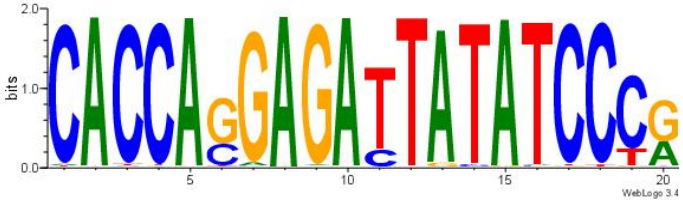

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

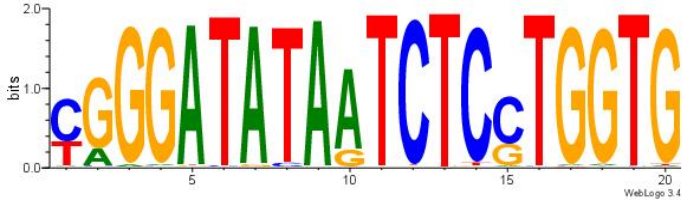

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.122058

Alignment:
TGGAGAACCTTTATGTCTAG
---MTACACTGTTGGTGG--

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

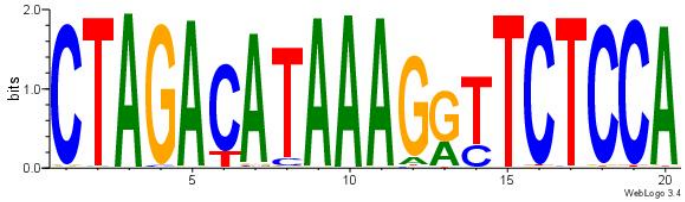

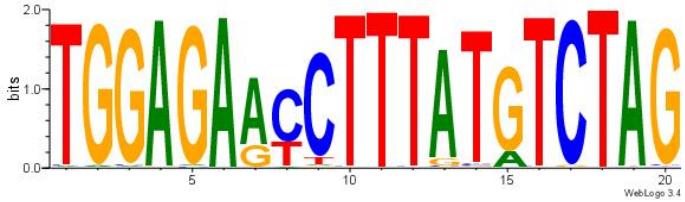

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.122285

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
----CCACCAACAGTGTAY-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

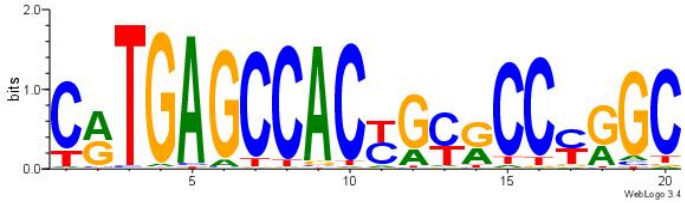

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

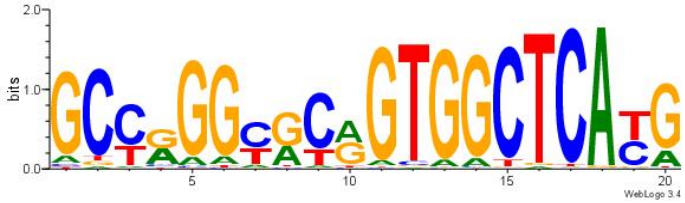

Dataset #:	1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.123077

Alignment:

```
CATTAGATTCTCATAGGA
-MTACACTGTTGGTGG--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

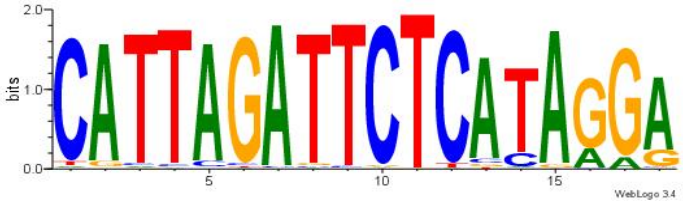

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

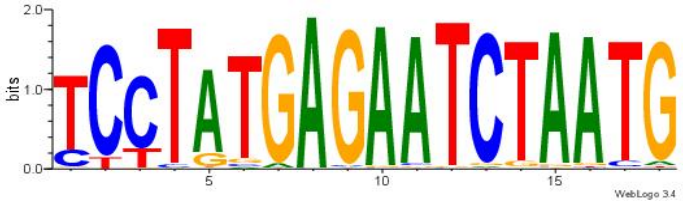

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15

Similarity score: 0.123202

Alignment:
GTCTCWAMAAAAAAWAMAAA
----CCACCAACAGTGTAY-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

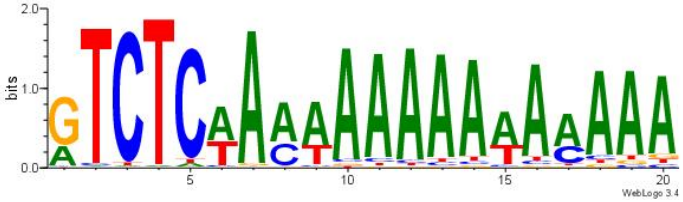

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

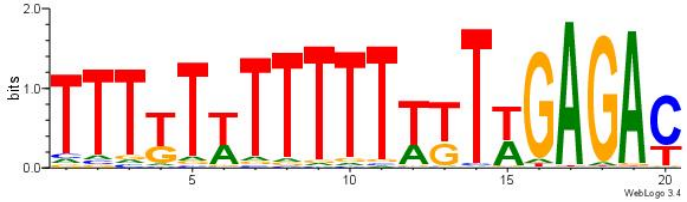

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.123519

Alignment:
AAAATCACAAGCATTCCTAT
----CCACCAACAGTGTAY-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

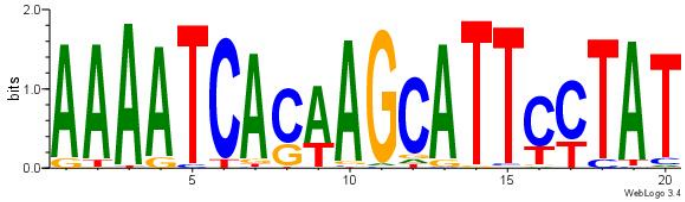

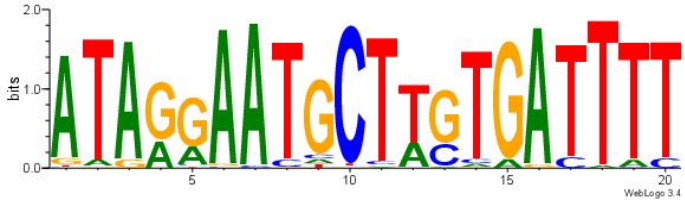

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.123827

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-MTACACTGTTGGTGG----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

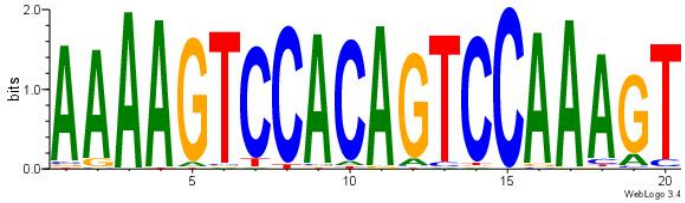

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

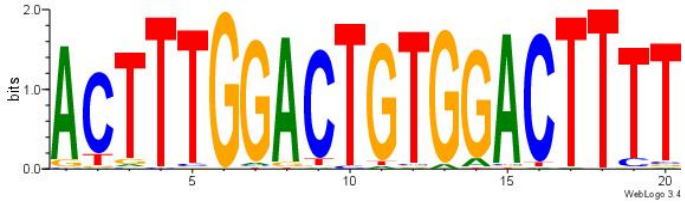

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.124122

Alignment:

```
AATGAKATCATGTCYTTTGC
----MTACACTGTTGGTGG-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

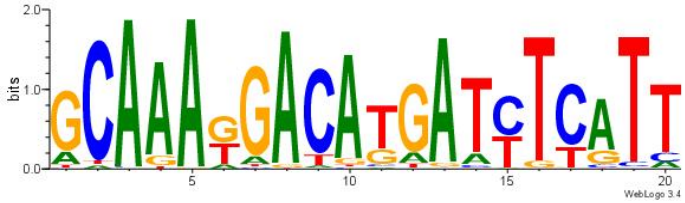

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

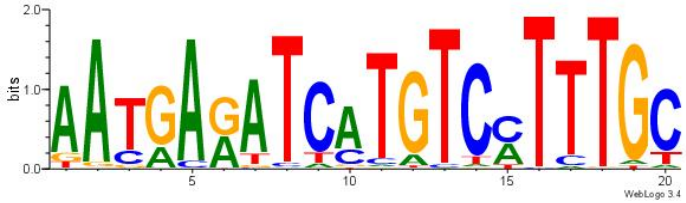

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15

Similarity score: 0.124279

Alignment:
CAAGGGTATAYGAGTAGCTG
MTACACTGTTGGTGG-----

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

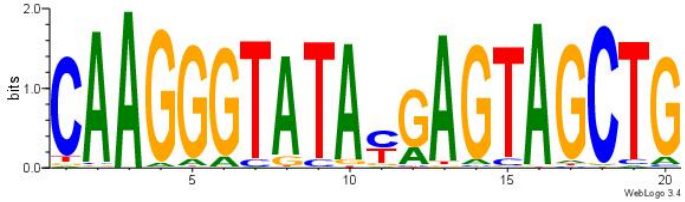

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

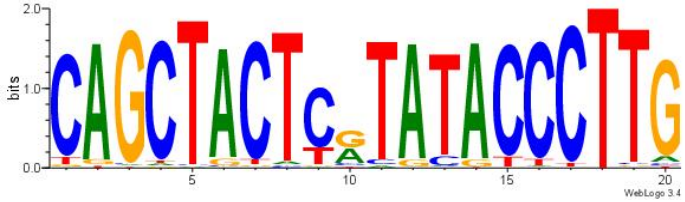

Dataset #: 1
Motif ID: 259
Motif name: Motif 259
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.12483

Alignment:
TAATAAGGGTGTGGG
MTACACTGTTGGTGG

Original motif Consensus sequence: CCCACACCCTTATTA

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

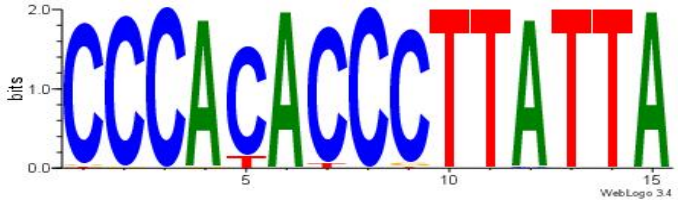

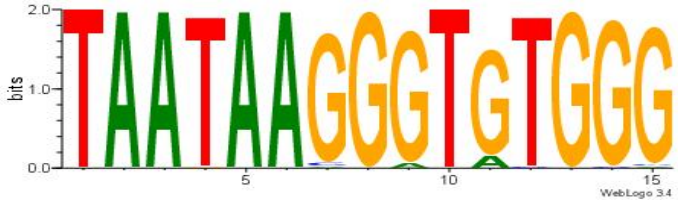

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.12505

Alignment:
GAATACCTCCTGAAGGACCT
-MTACACTGTTGGTGG----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

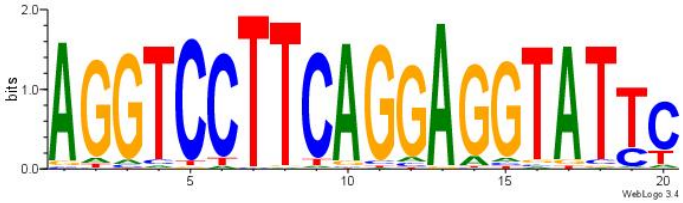

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

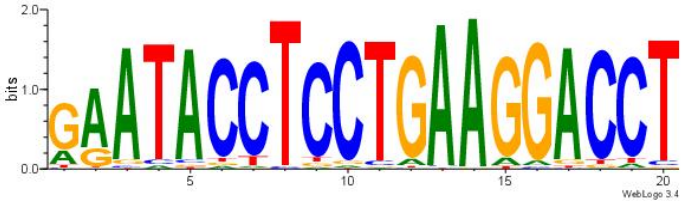

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.12524

Alignment:

```
CTCCAGKTMCATCCATGTTG
CCACCAACAGTGTAY-----
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

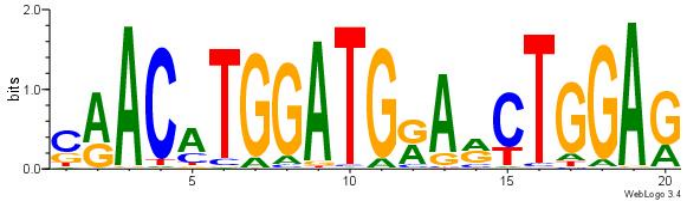

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

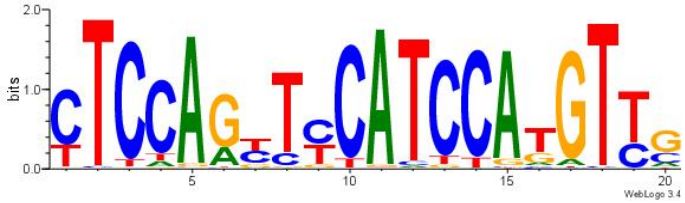

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.125388

Alignment:
AAGGAACAAACTCCRGACAC
---CCACCAACAGTGTAY--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

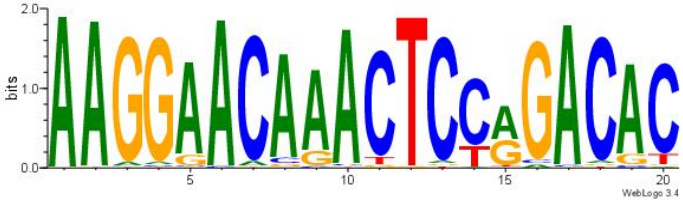

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

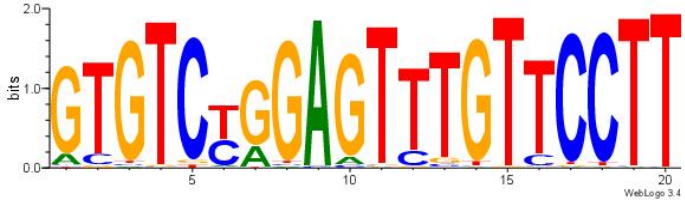

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.125509

Alignment:
CGCCCATCGTCTGGGATGT
-CCACCAACAGTGTAY---

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

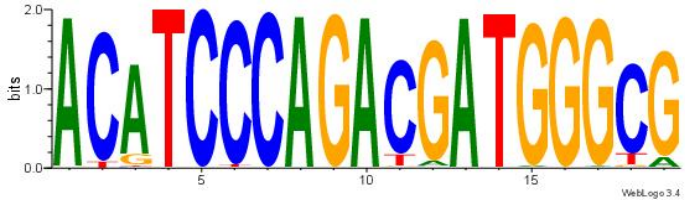

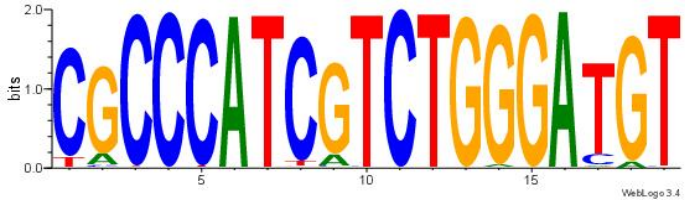

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.125764

Alignment:

```
ACCCYGTCTGGGAGGTG
--MTACACTGTTGGTGG
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

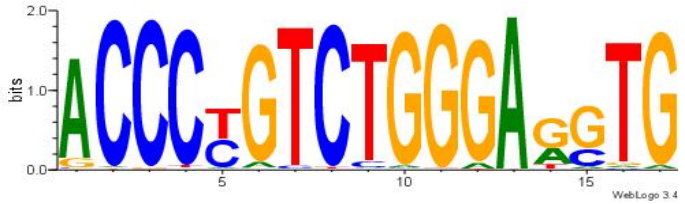

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

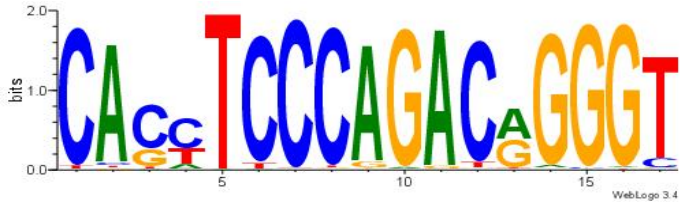

Dataset #: 1 Motif ID: 259 Motif name: Motif 259

Original motif Consensus sequence: CCCACACCCTTATTA

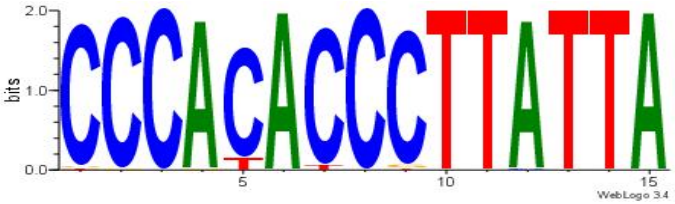

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

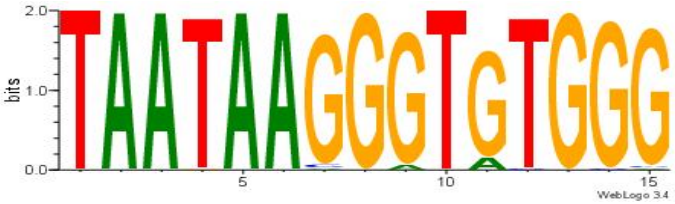

Best Matches for Motif ID 259 (Highest to Lowest)

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0922705

Alignment:

```
TTTTATAGGATTTGGG
-TAATAAGGGTGTGGG
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

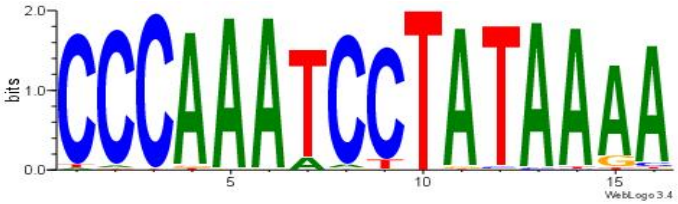

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

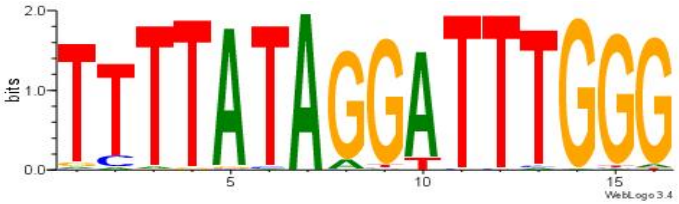

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0982406

Alignment:

```
CCCMKGGCACCCTCAGTCCT
---CCCACACCCTTATTA--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

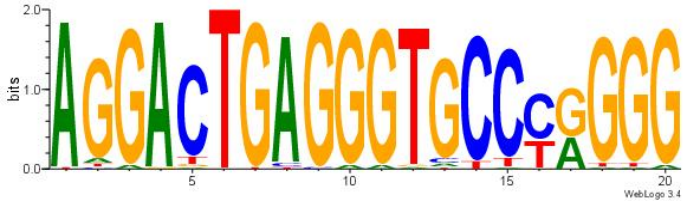

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

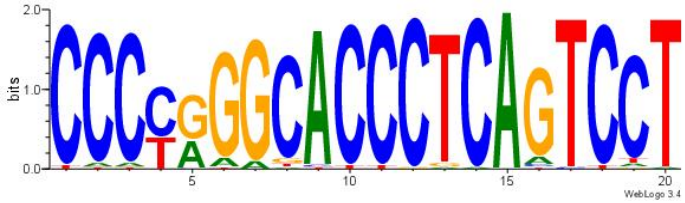

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 15
Similarity score: 0.106051

Alignment:
TTCAMTCATGATTTGGCTCT
--TAATAAGGGTGTGGG---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

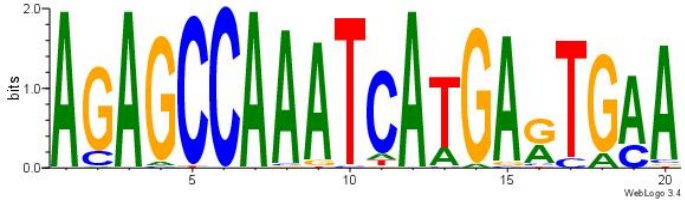

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

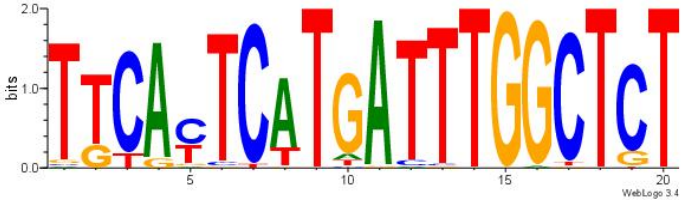

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.106485

Alignment:
ATAAAAACTTGCTGGTTTT
-TAATAAGGGTGTGGG---

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

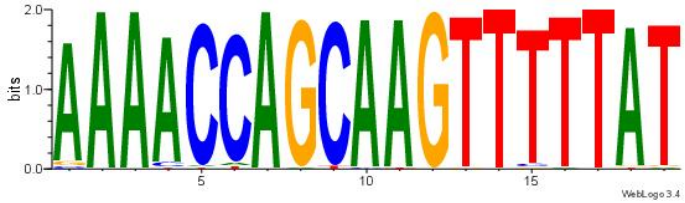

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

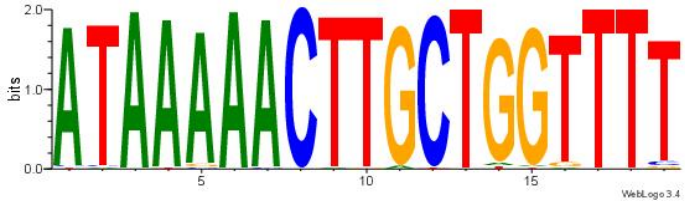

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.107379

Alignment:

```
CCCACGCCCACCCGGAACT
----CCCACACCCTTATTA
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

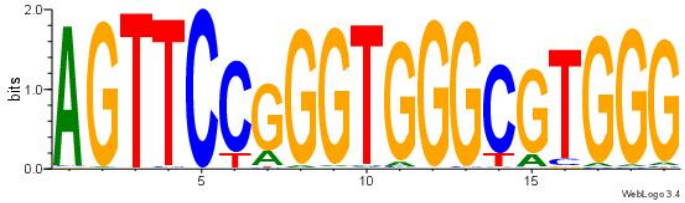

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

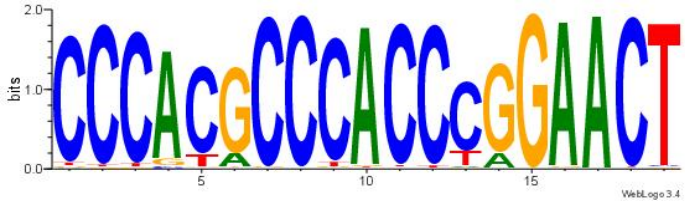

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.109692

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
TAATAAGGGTGTGGG-----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

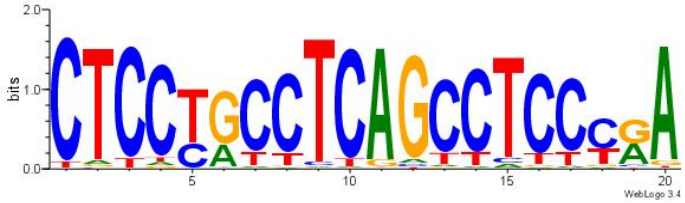

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

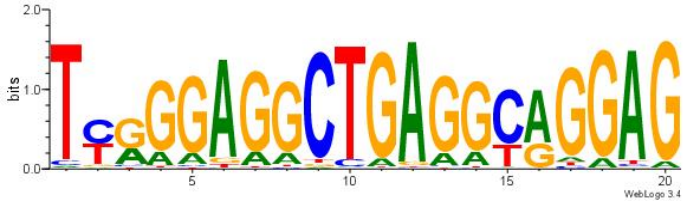

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.109919

Alignment:
GCCTCTCCCTCCACACCTCC
CCCACACCCTTATTA-----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

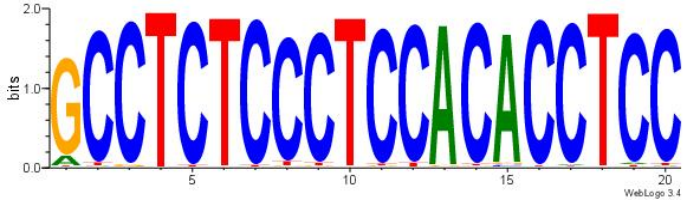

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

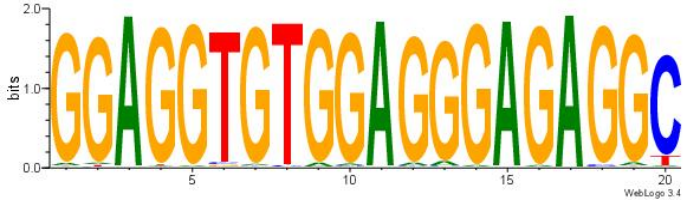

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.110874

Alignment:
CAGACTGCCTCCTCAA
CCCACACCCTTATTA-

Original motif Consensus sequence: CAGACTGCCTCCTCAA

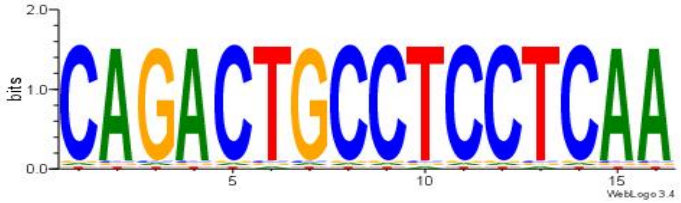

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

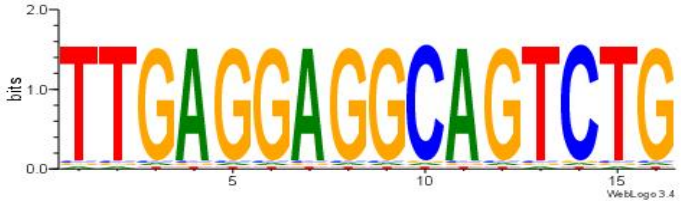

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.111045

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-CCCACACCCTTATTA----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

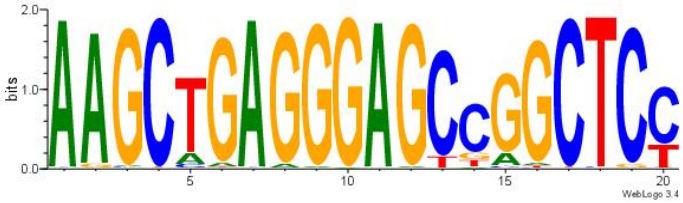

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

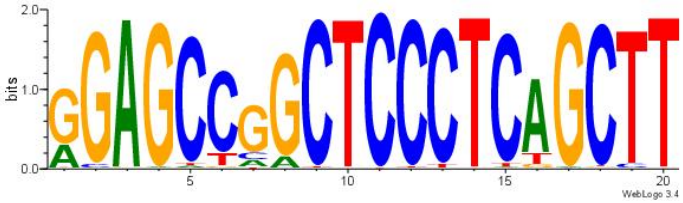

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.111242

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
---TAATAAGGGTGTGGG--
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

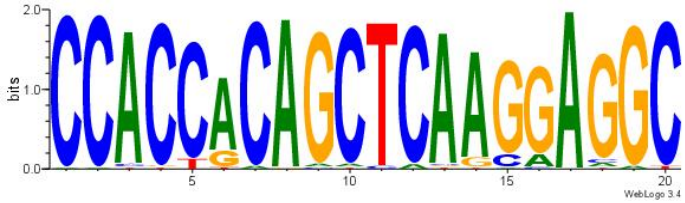

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

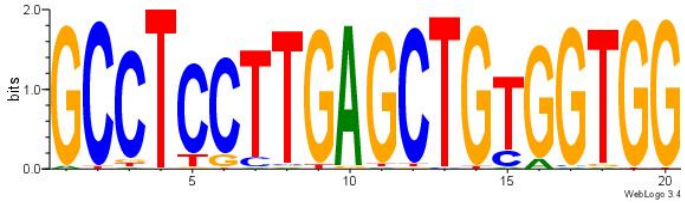

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.112107

Alignment:
ATTAGCYRGGCRTGGTGGC
---TAATAAGGGTGTGGG-

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

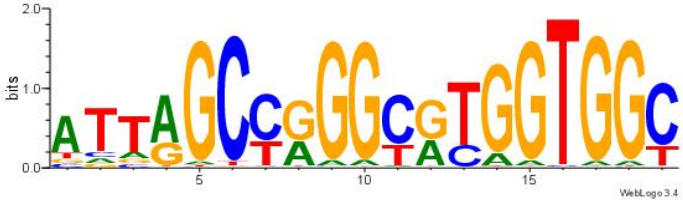

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

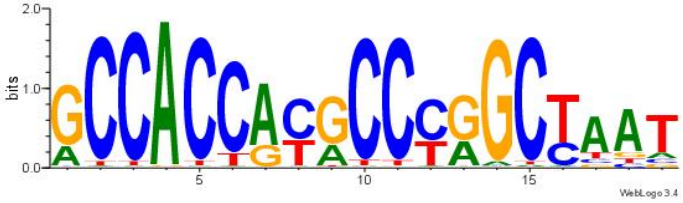

Dataset #: 1
Motif ID: 189
Motif name: Motif 189
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.112243

Alignment:
CAATGATAGACTGGAT
TAATAAGGGTGTGGG-

Original motif Consensus sequence: ATCCAGTCTATCATTG

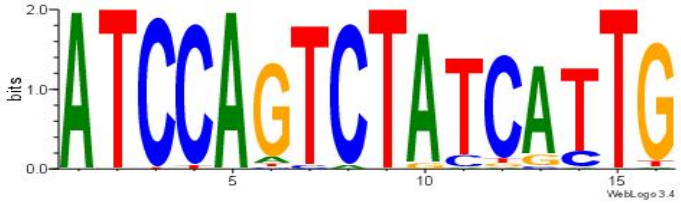

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

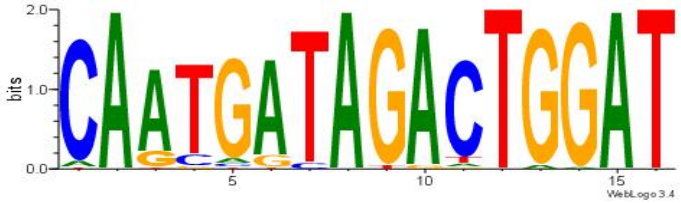

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.112888

Alignment:

```
ATTCAASATGAGATTTGGG
---TAATAAGGGTGTGGG-
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

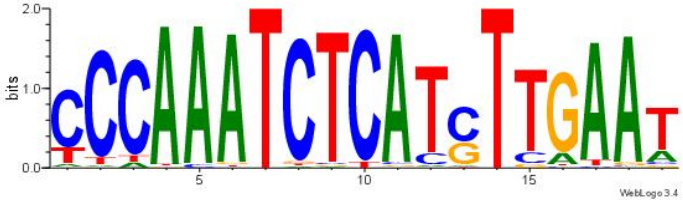

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

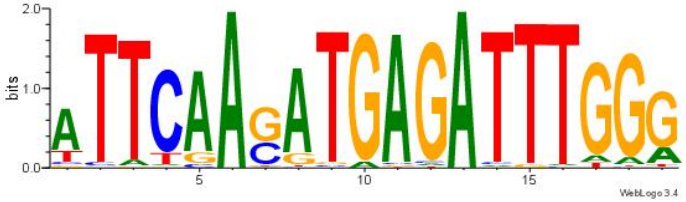

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.114611

Alignment:

```
GKCTGTACCCCCATTGTAT
---CCCACACCCTTATTA-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

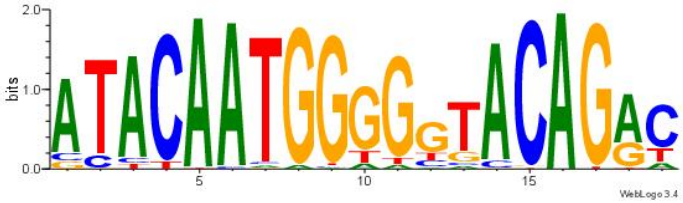

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

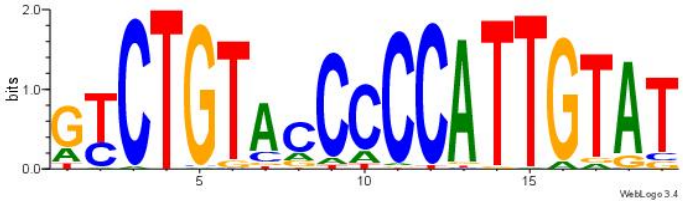

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.115115

Alignment:
CCCATGCAAGTCYRAAATCC
CCCACACCCTTATTA-----

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

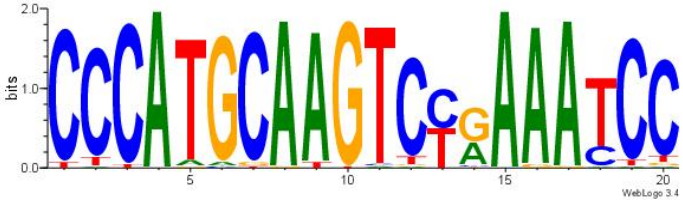

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

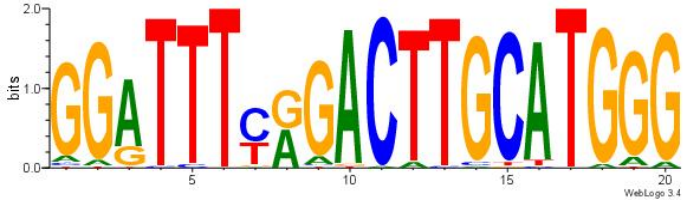

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.116963

Alignment:
ATCTCASAAATCACCACTA
----CCCACACCCTTATTA

Original motif Consensus sequence: ATCTCASAAATCACCACTA

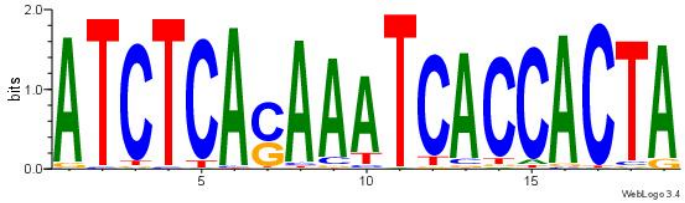

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

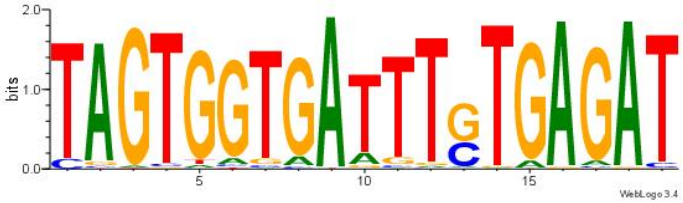

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.117628

Alignment:

```
GTTTAACCATTGAGGGCCAG
---TAATAAGGGTGTGGG--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

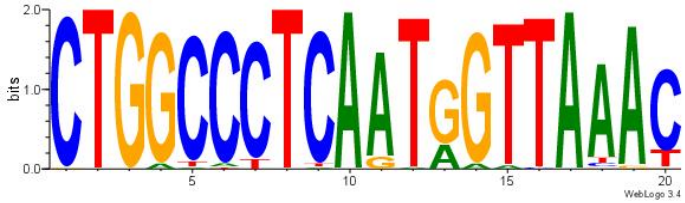

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

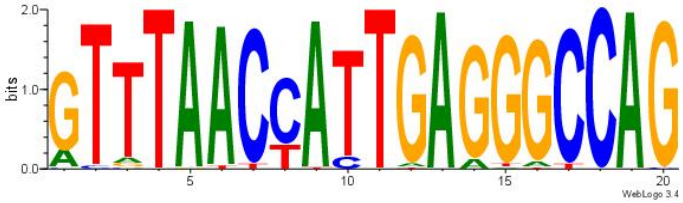

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.117704

Alignment:

```
CTCCTGACCTCGTGATC
--CCCACACCCTTATTA
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

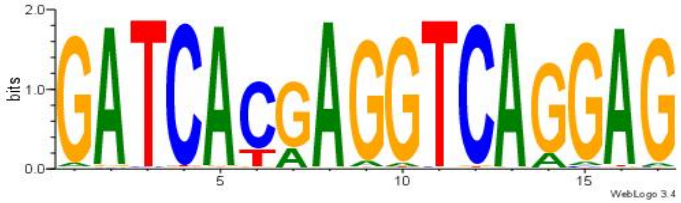

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

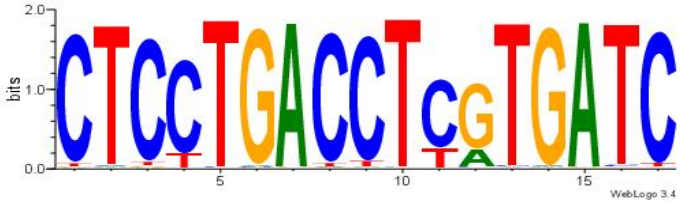

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.118399

Alignment:
ATCTGACAGGAGGYRGAGCT
--TAATAAGGGTGTGGG---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

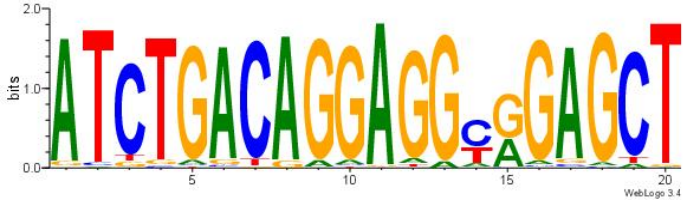

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

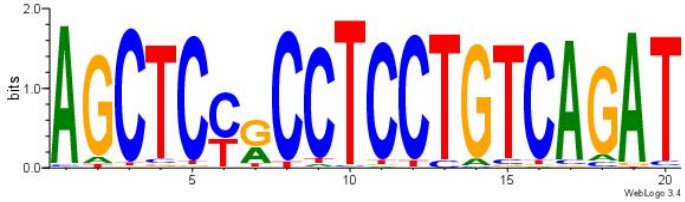

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.118496

Alignment:
AAATTACCCAGTCTCAGGTA
-TAATAAGGGTGTGGG----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

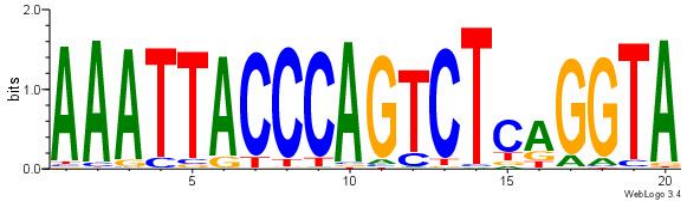

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

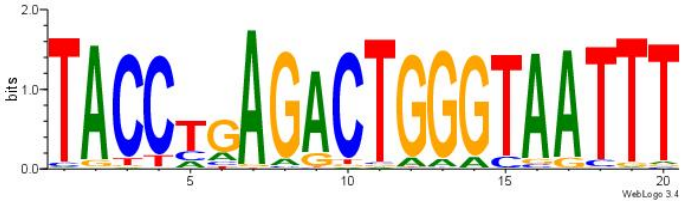

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.119385

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-----TAATAAGGGTGTGGG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

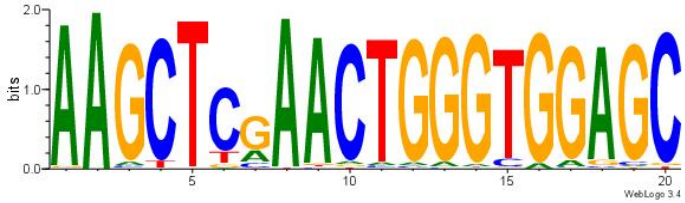

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

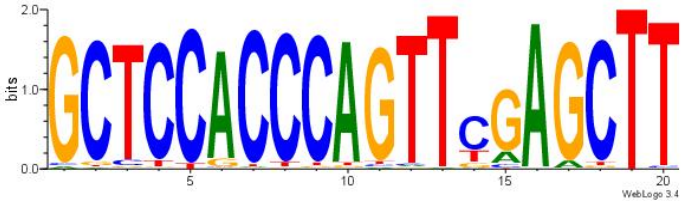

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.119413

Alignment:

```
TGHCCTGCKCCCACTGTCT
-CCCACACCCTTATTA---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

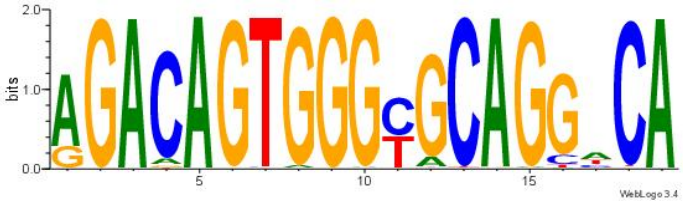

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

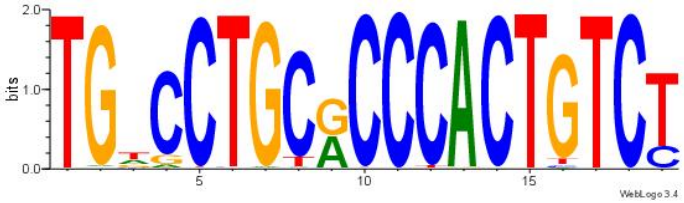

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 15
Similarity score: 0.119421

Alignment:
ATGATCCAGCAATYCCACTH
-----CCCACACCCTTATTA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

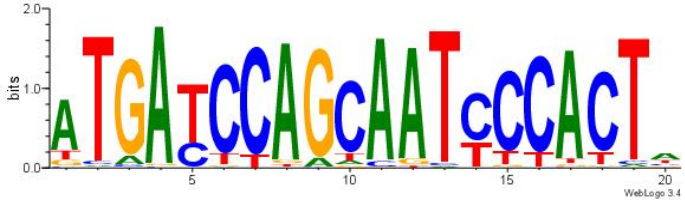

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

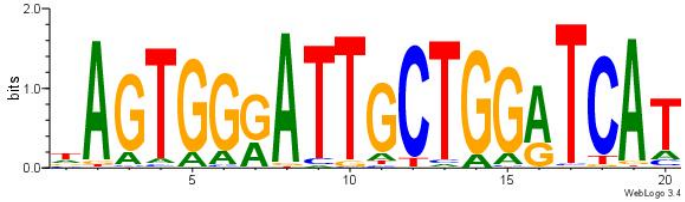

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.120502

Alignment:
AGCTCCCAGCGTGAGCGACG
--CCCACACCCTTATTA---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

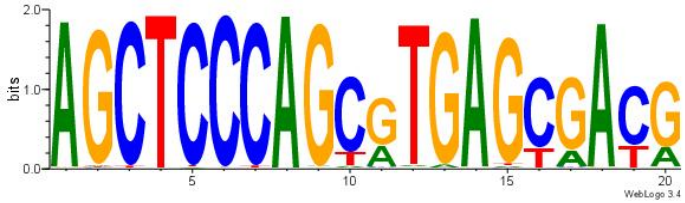

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

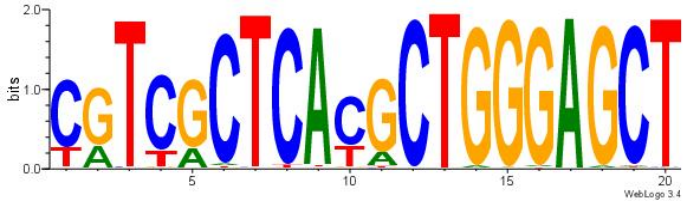

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.120544

Alignment:

```
GGCATCACGGATCCTACCAA
-----CCCACACCCTTATTA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

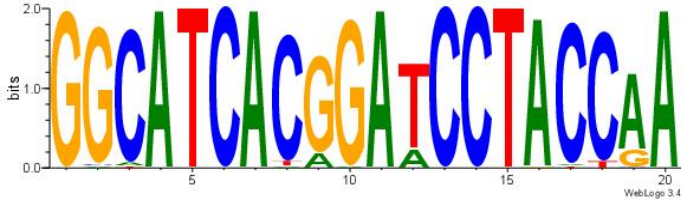

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

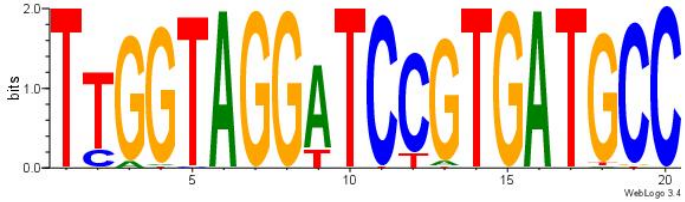

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.121036

Alignment:

```
AAAATCACAAGCATTCCTAT
----CCCACACCCTTATTA-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

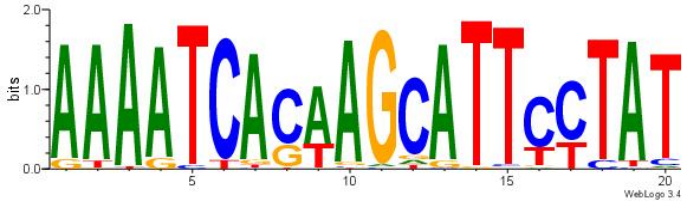

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

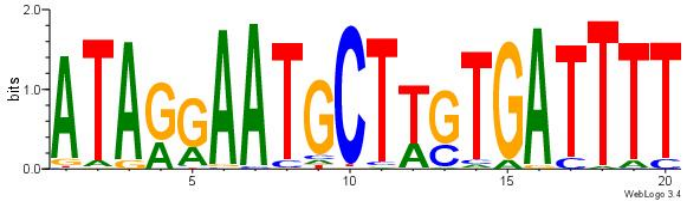

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.121078

Alignment:
ACCKTCGCGGTGAGTGTTAC
----CCCACACCCTTATTA-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

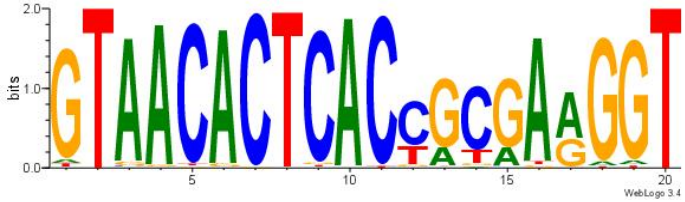

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

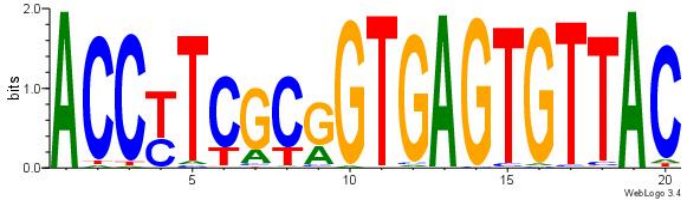

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.121157

Alignment:
MGGGATATAATCTCCTGGTG
----TAATAAGGGTGTGGG-

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

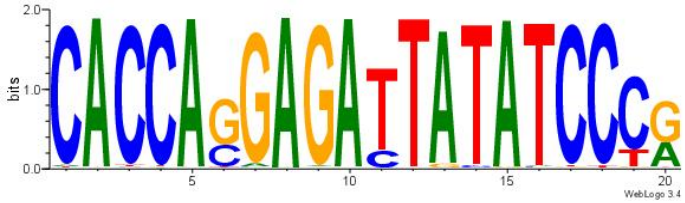

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

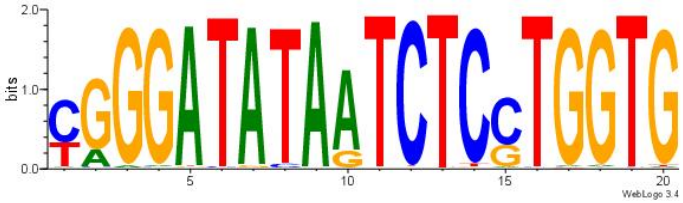

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.121335

Alignment:

```
AACTGAGGCTCAGAGA
TAATAAGGGTGTGGG-
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

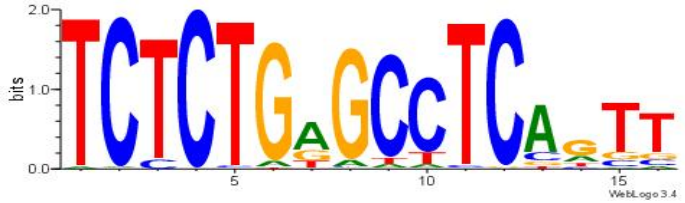

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

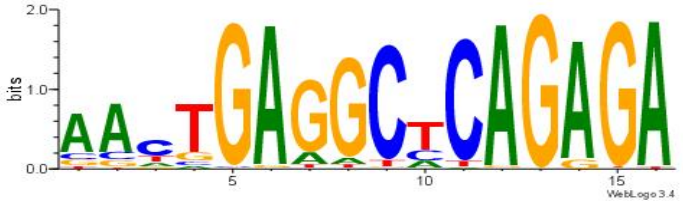

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.121635

Alignment:

```
TGTGTGTGTGTKTGTGTGT
---TAATAAGGGTGTGGG-
```

Original motif Consensus sequence: ACACACAYACACACACACA

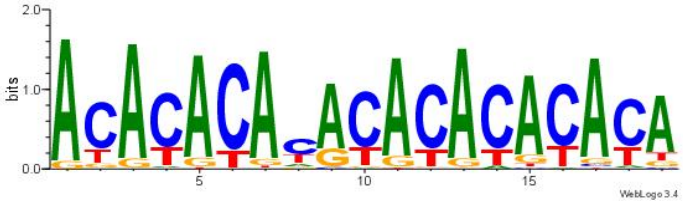

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

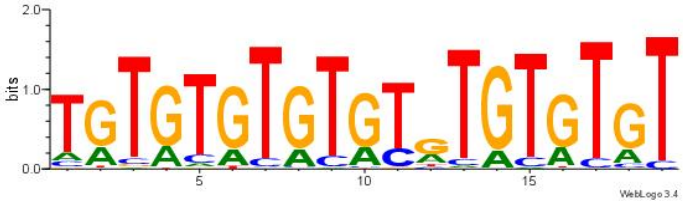

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.121715

Alignment:
GGTCAGGATCATCAATAT
-CCCACACCCTTATTA--

Original motif Consensus sequence: ATATTGATGATCCTGACC

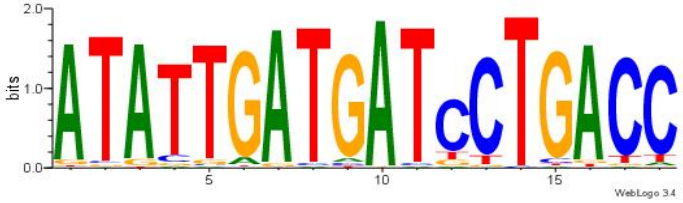

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

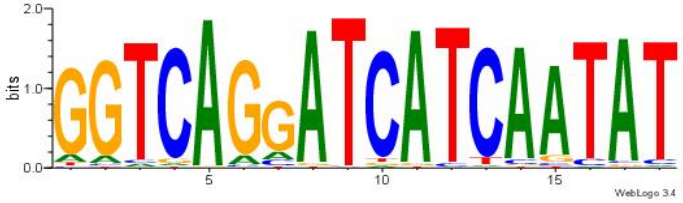

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.122011

Alignment:
ACATCCCAGACGATGGGCG
----CCCACACCCTTATTA

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

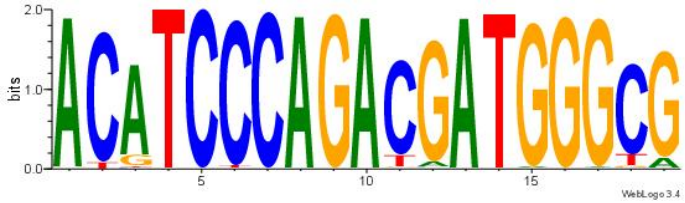

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

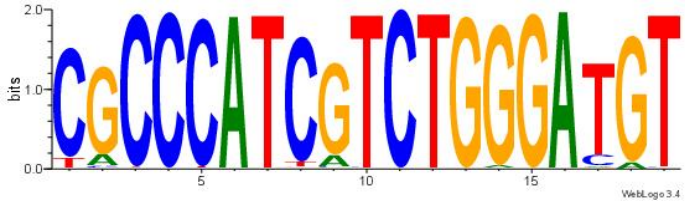

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.122195

Alignment:

```
MTACACTGTTGGTGG
TAATAAGGGTGTGGG
```

Original motif Consensus sequence: CCACCAACAGTGTAY

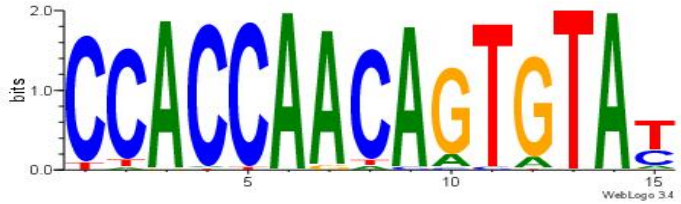

Reverse complement motif Consensus sequence: MTACACTGTTGGT

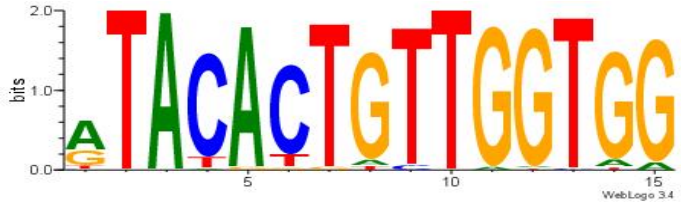

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.122681

Alignment:

```
CAAGGGTATAYGAGTAGCTG
TAATAAGGGTGTGGG-----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

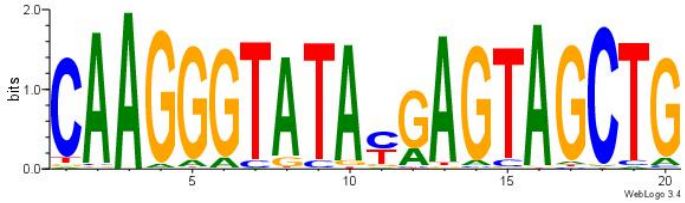

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

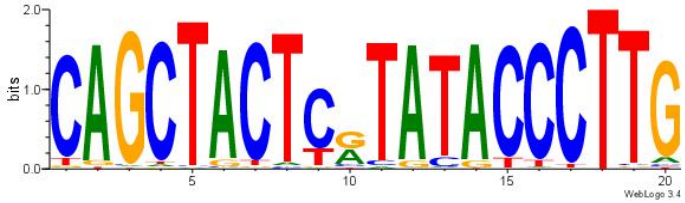

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 15
Similarity score: 0.12353

Alignment:
AGTTGTAATTGGGAGACTT
--TAATAAGGGTGTGGG--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

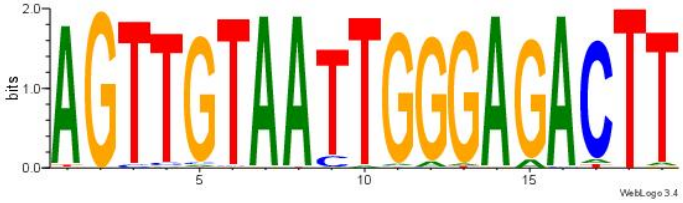

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

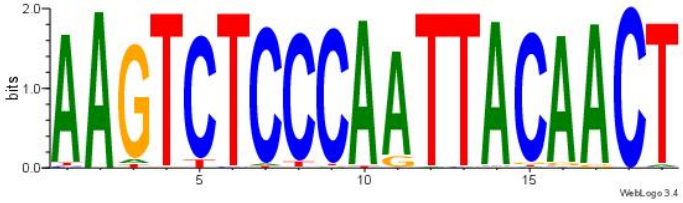

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 15
Similarity score: 0.124149

Alignment:
CCCYAATACTGCGCTTTTC
---TAATAAGGGTGTGGG-

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

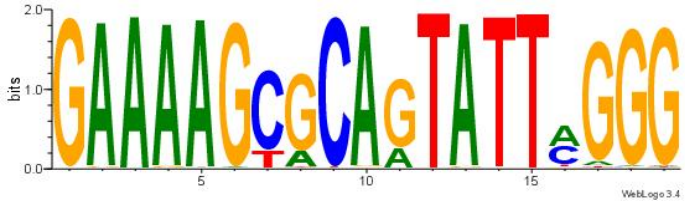

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

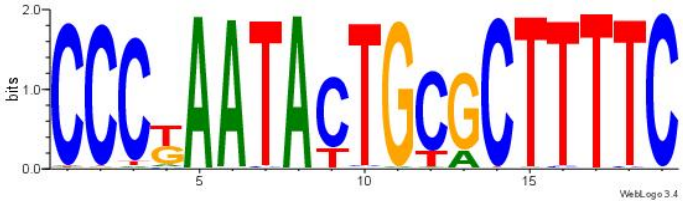

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.124296

Alignment:

```
TGCTCACACAAAGCCTGT
-CCCACACCCTTATTA--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

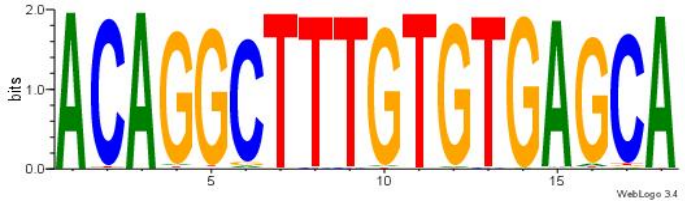

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

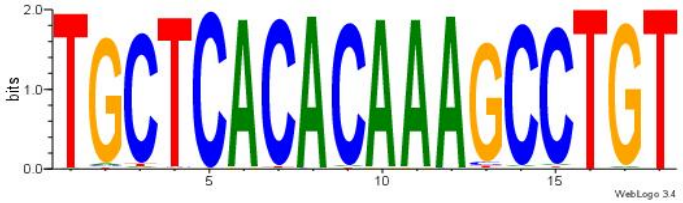

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.124304

Alignment:

```
ACTTTGGACTGTGGACTTTT
TAATAAGGGTGTGGG-----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

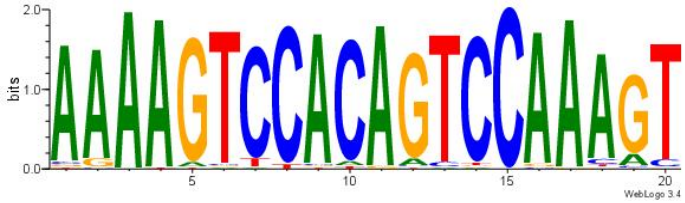

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

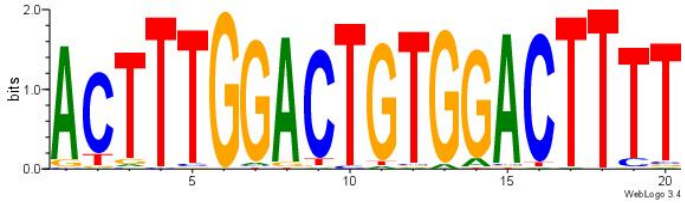

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.124609

Alignment:
CATTCTGGGGTCTGGAGGAY
TAATAAGGGTGTGGG-----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

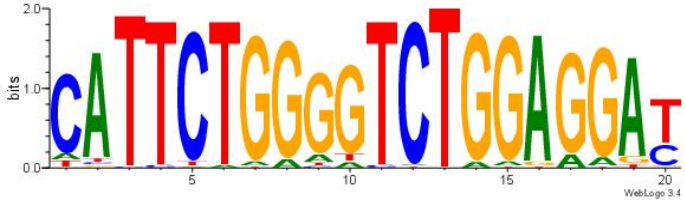

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

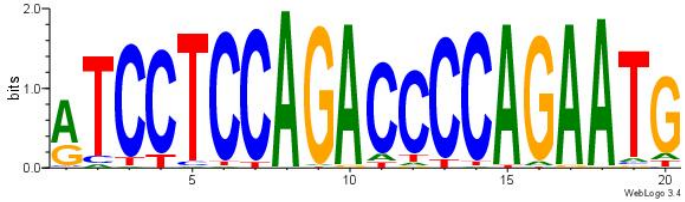

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.125285

Alignment:
CTAGACATAAAGGTTCTCCA
TAATAAGGGTGTGGG-----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

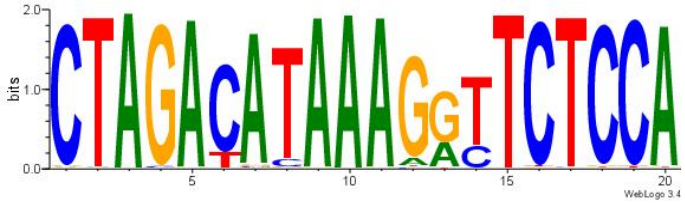

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

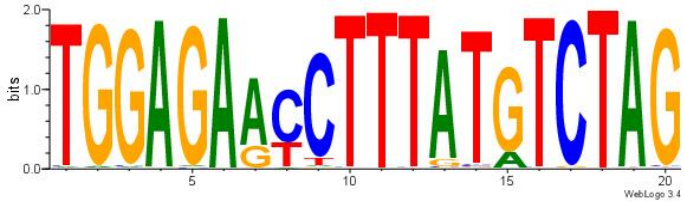

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.125803

Alignment:

```
TTYTTGTTGTTGTTGTT
-TAATAAGGGTGTGGG-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

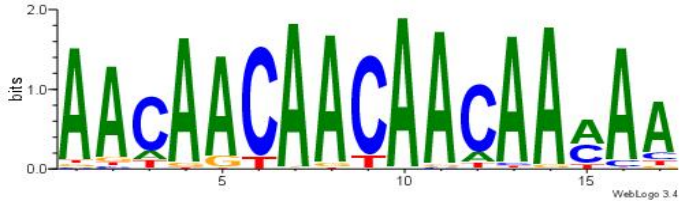

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

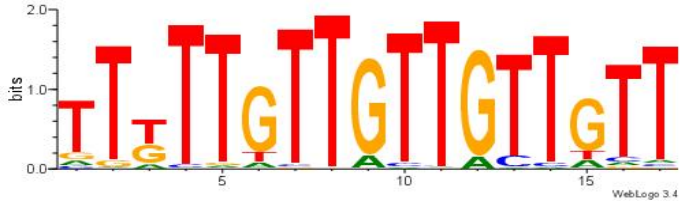

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.126225

Alignment:

```
ATGGACAYTTRGGTTGHTTC
TAATAAGGGTGTGGG-----
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

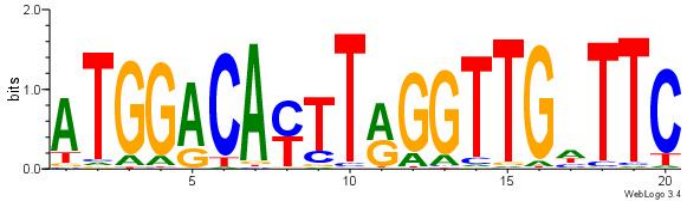

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

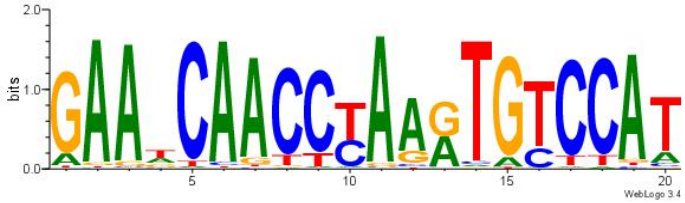

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.126286

Alignment:
GTGGCCCTCTTCTCACAGCT
CCCACACCCTTATTA-----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

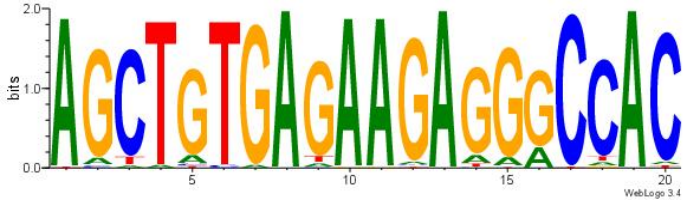

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

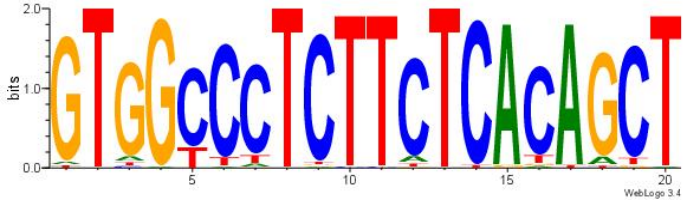

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.12634

Alignment:
CTCCAGKTMCATCCATGTTG
CCCACACCCTTATTA-----

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

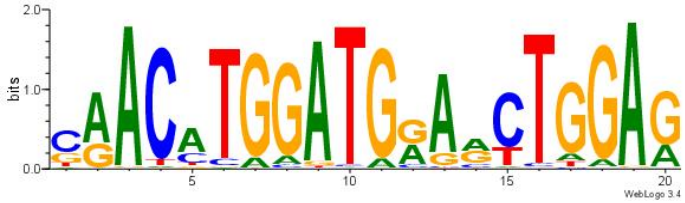

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

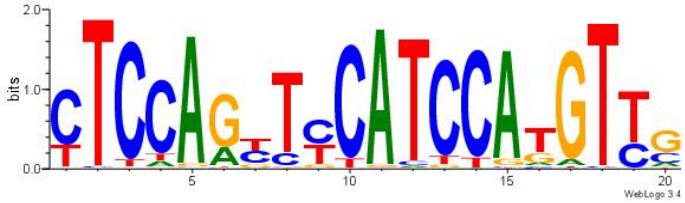

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.126562

Alignment:

```
TGTTATGCCTGAAAGT
TAATAAGGGTGTGGG-
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

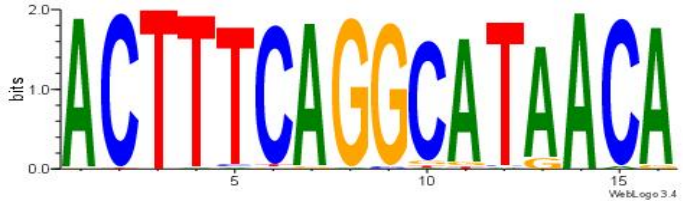

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

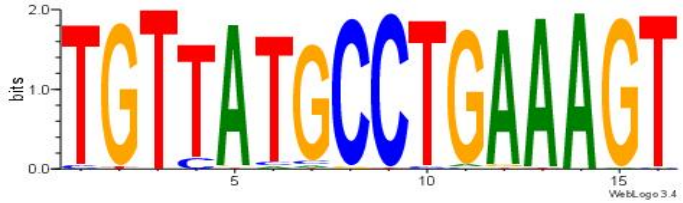

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.126631

Alignment:

```
ACACATCACAAAGCAGTTTC
TAATAAGGGTGTGGG-----
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

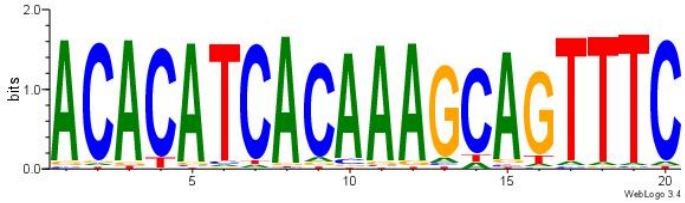

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

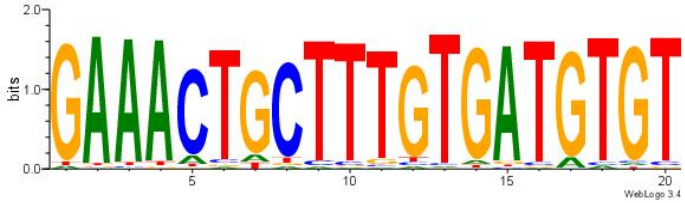

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 15
Similarity score: 0.126932

Alignment:
GAAAGGGAACTCCCTGACCC
-----CCCACACCCTTATTA

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

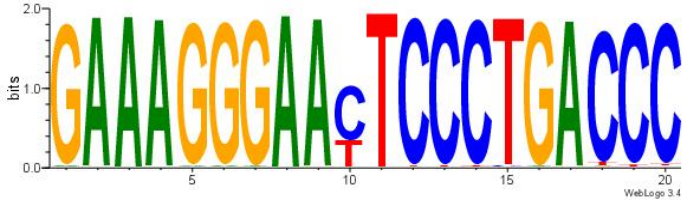

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

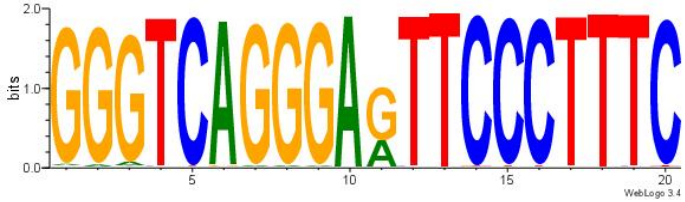

Dataset #: 1
Motif ID: 230
Motif name: Motif 230
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.128516

Alignment:
TTTTCACATGCCTTTCT
CCCACACCCTTATTA--

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

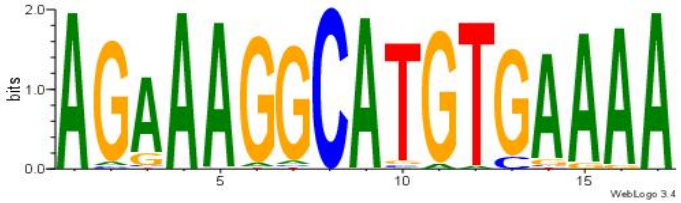

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

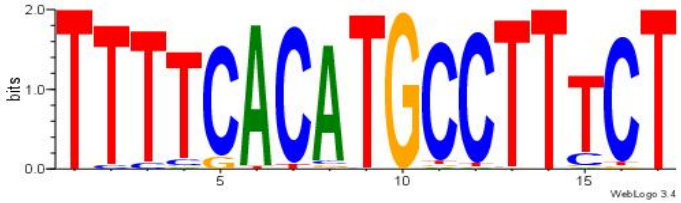

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.128524

Alignment:

```
CAAASCKGTCATAGGCCAT
TAATAAGGGTGTGGG----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

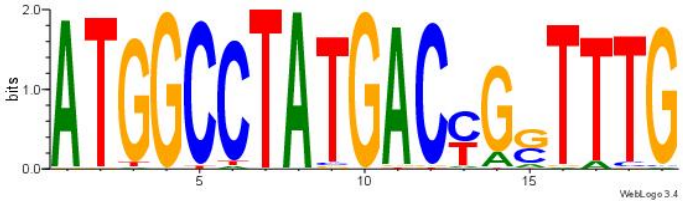

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

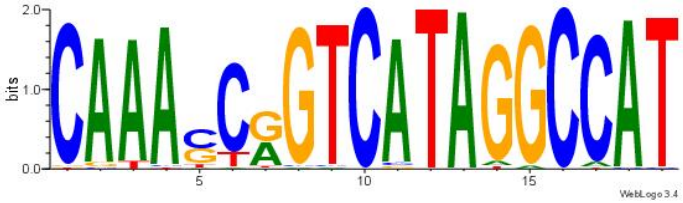

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.128736

Alignment:

```
ATGTAACCAAAYACCACCTG
-----CCCACACCCTTATTA
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

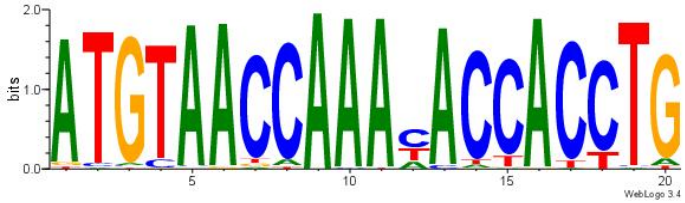

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

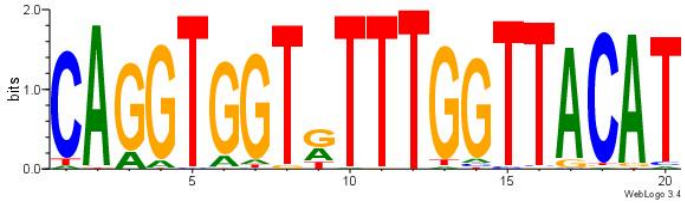

Dataset #: 1 Motif ID: 260 Motif name: Motif 260

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

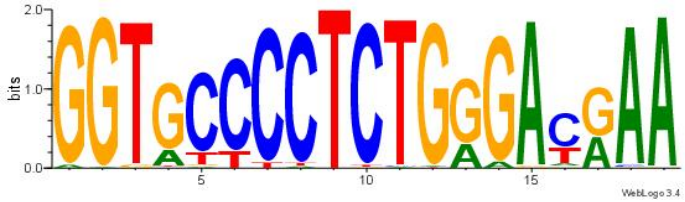

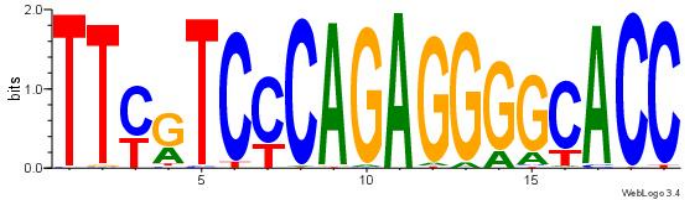

Best Matches for Motif ID 260 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0961044

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

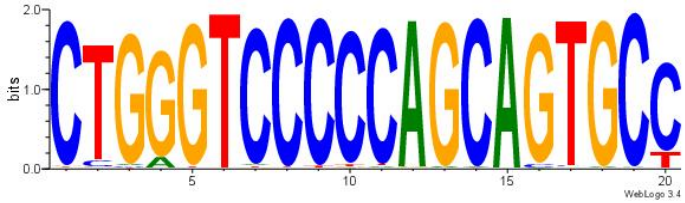

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

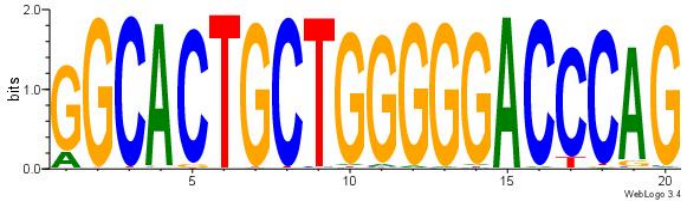

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.100972

Alignment:

```
TGGCTTCACCCAGTGGATCC
-TTMGTCCCAGAGGGGCACC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

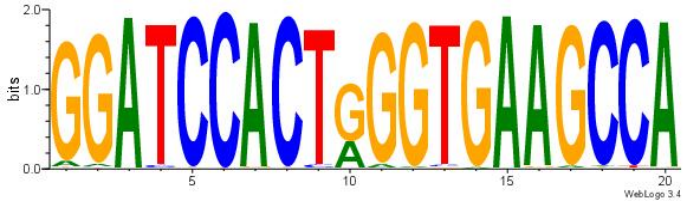

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

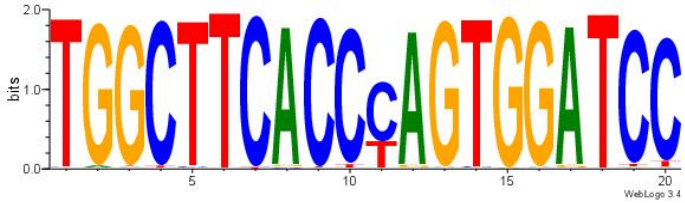

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.10173

Alignment:
TCCCTCCCGGACGGGGYGGC
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

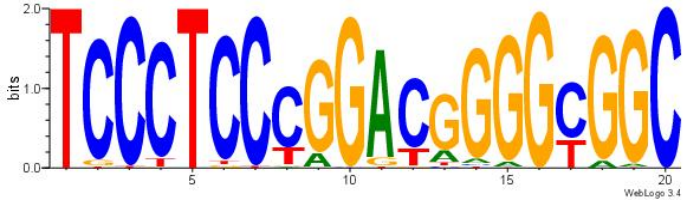

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

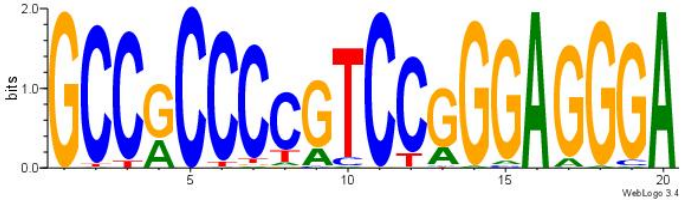

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.103455

Alignment:
MGTCTMKCTCTGTKGCCCAG
-GGTGCCCCTCTGGGACRAA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

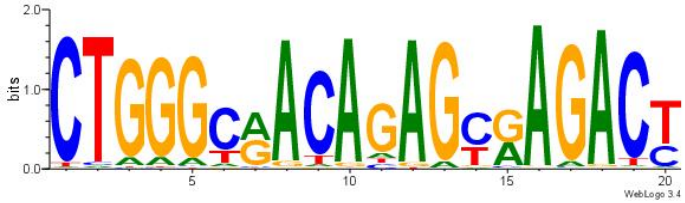

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

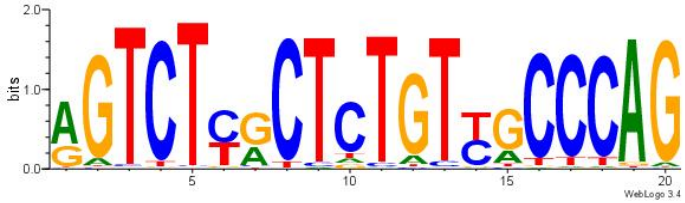

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.103612

Alignment:

```
TGGAGAACCTTTATGTCTAG
GGTGCCCCTCTGGGACRAA-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

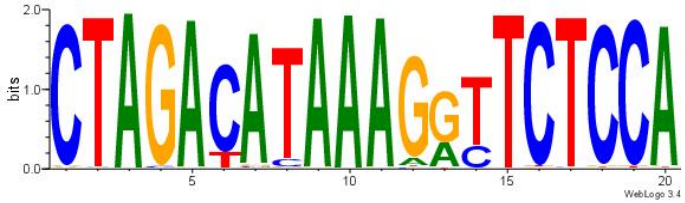

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

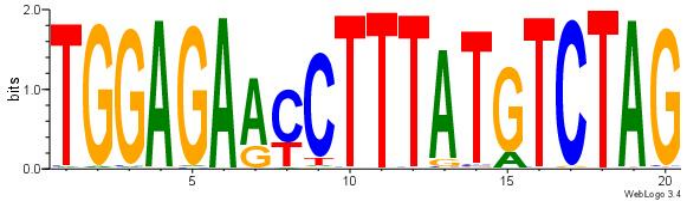

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.103722

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

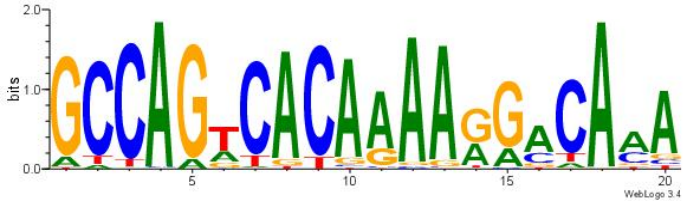

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

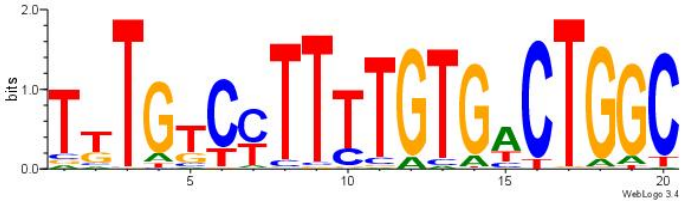

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.10931

Alignment:
AGCTCMKCCTCCTGTCAGAT
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

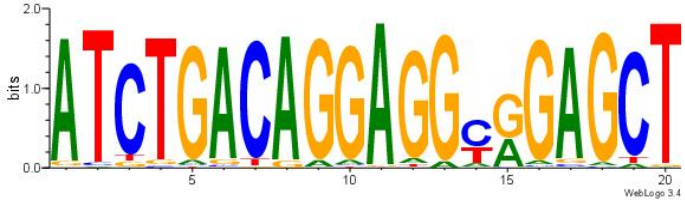

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

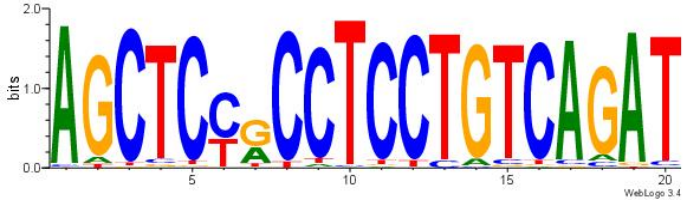

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.11302

Alignment:
ACTCCCTAGTGAGATGAACC
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

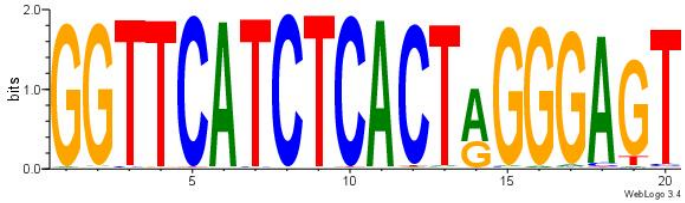

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

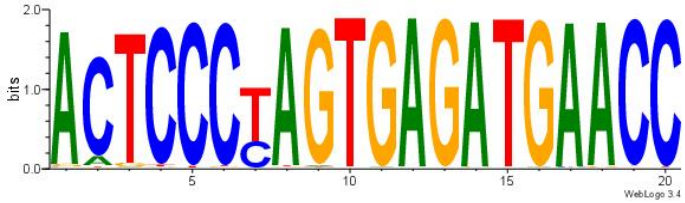

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.113701

Alignment:

```
ACACATCACAAAGCAGTTTC
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

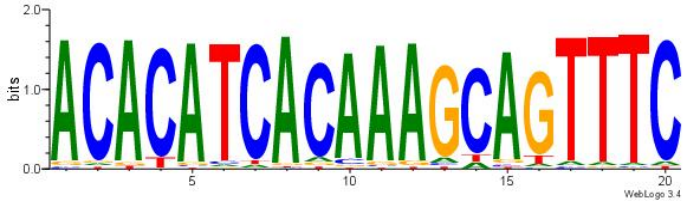

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

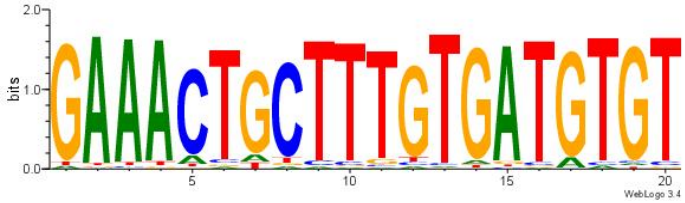

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.114358

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

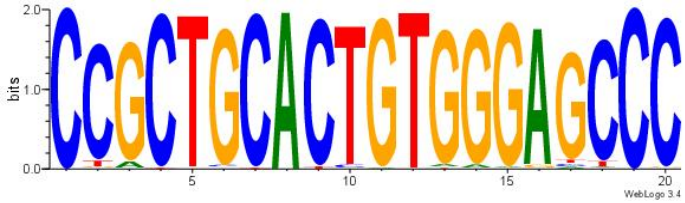

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

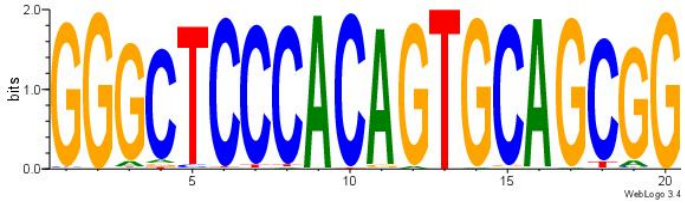

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.118079

Alignment:
CGTCGCTCACGCTGGGAGCT
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

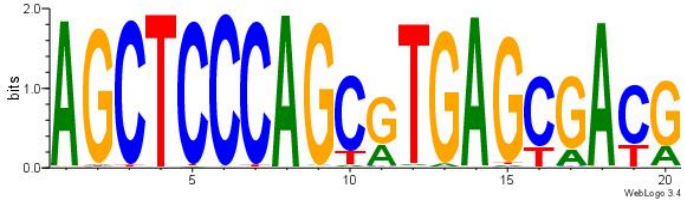

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

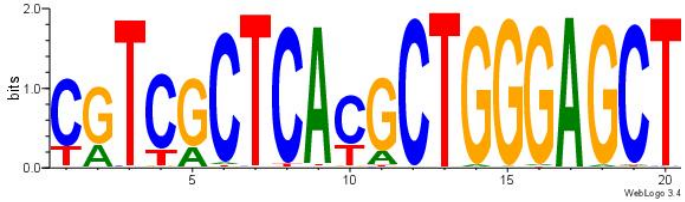

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.119716

Alignment:
TCKMGCCACTGCACTCCAGC
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

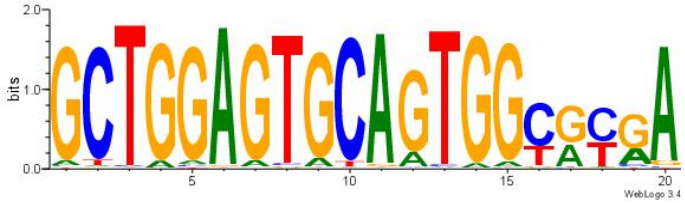

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

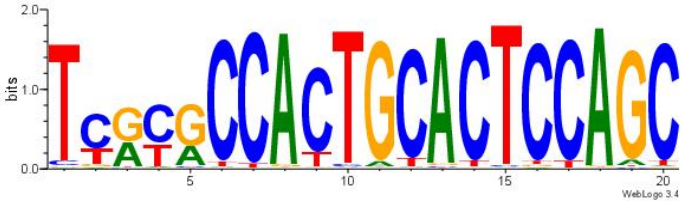

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.120285

Alignment:

```
AACAACASACACTGGGGCCT
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

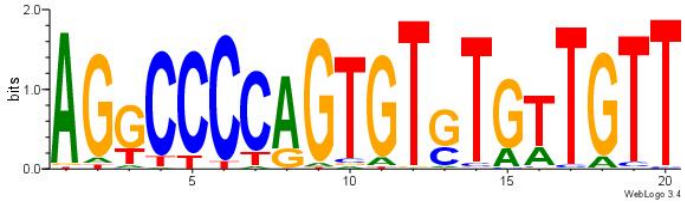

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

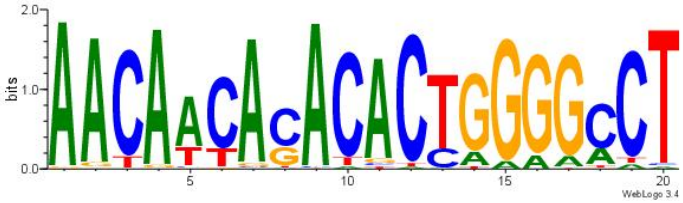

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.12186

Alignment:

```
AATCAACCCTGGYRATCAAT
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

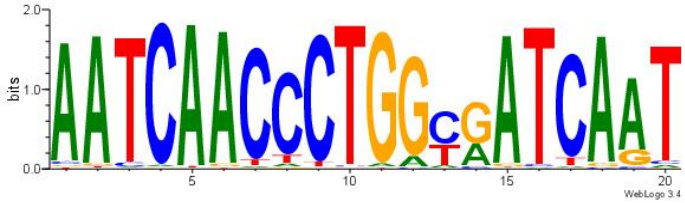

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

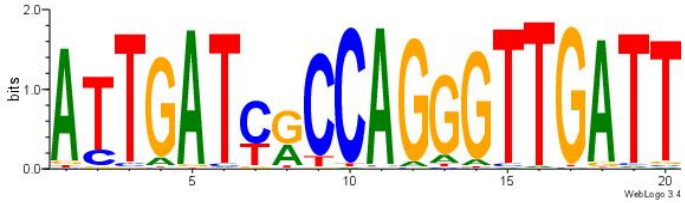

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.121961

Alignment:
GCTGGCCCGCAAGCGCCGCG
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

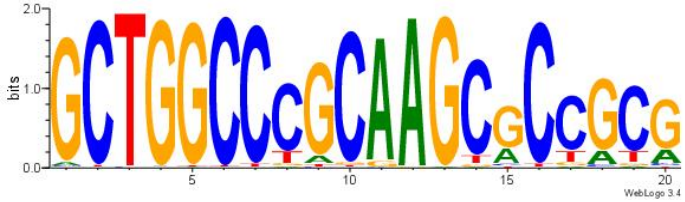

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

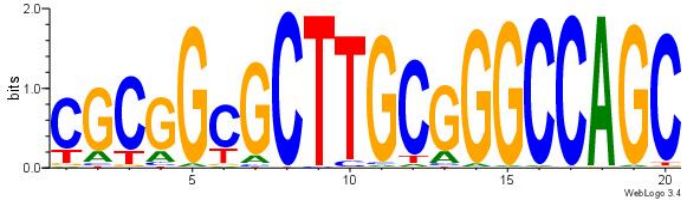

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.122884

Alignment:
CRTGAGCCACYGYRCCYGGC
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

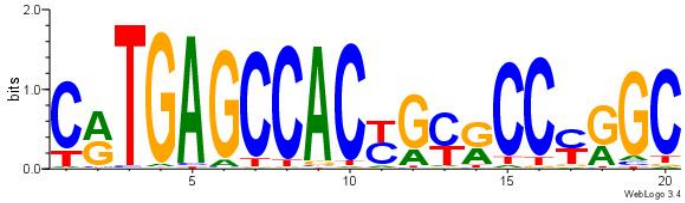

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

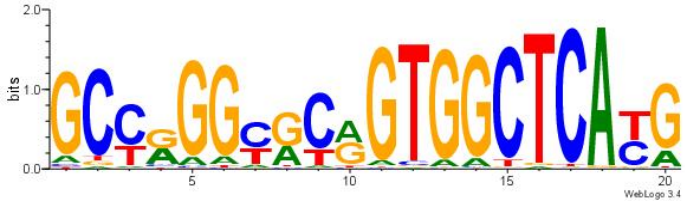

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.125422

Alignment:

```
CTGGCCCTCAATGGTTAAAC
GGTGCCCCTCTGGGACRAA-
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

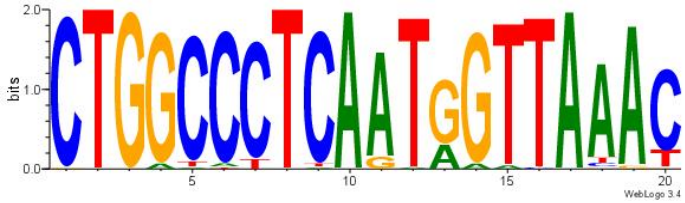

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

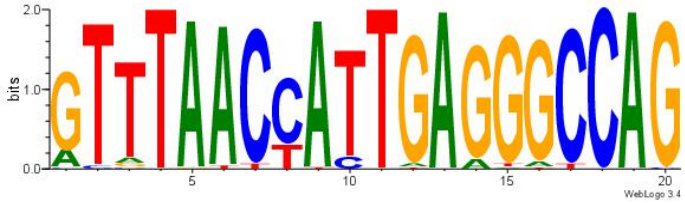

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125835

Alignment:

```
ATTAGCYRGGCRTGGTGGC
TTMGTCCCAGAGGGGCACC
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

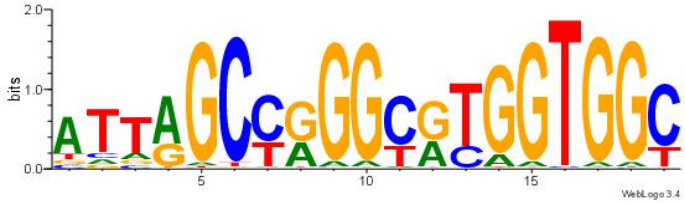

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

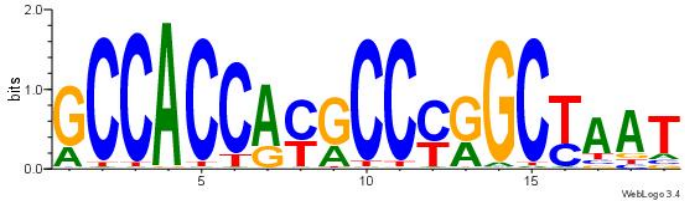

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.126519

Alignment:
CGAGCCTCCCCGAYGAGCGC
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

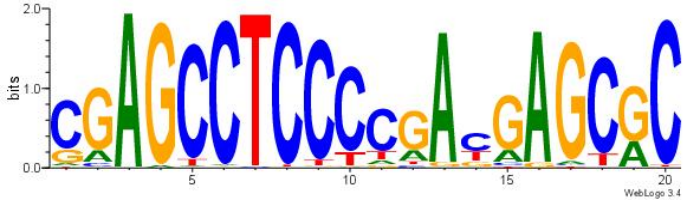

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

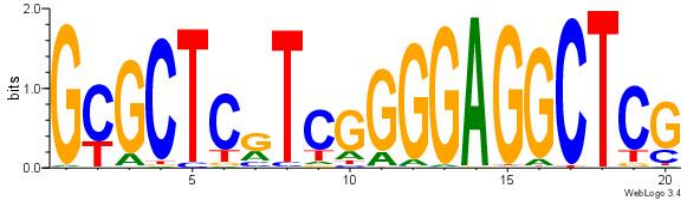

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.127256

Alignment:
TACCTGAGACTGGGTAATTT
TTMGTCCCAGAGGGGCACC-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

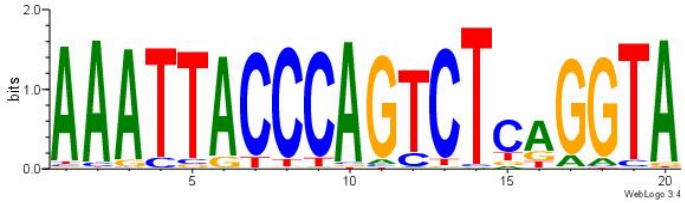

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

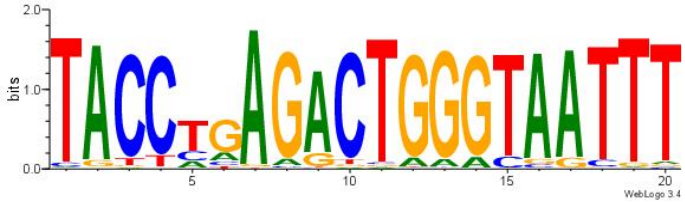

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127698

Alignment:

```
GCTGCARTCTCGGCACTTT
GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

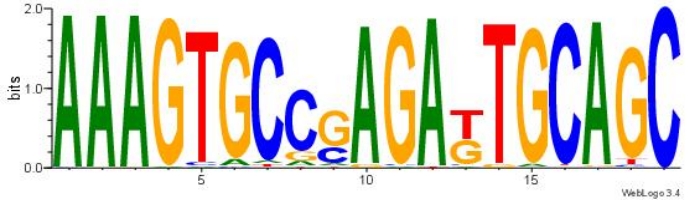

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

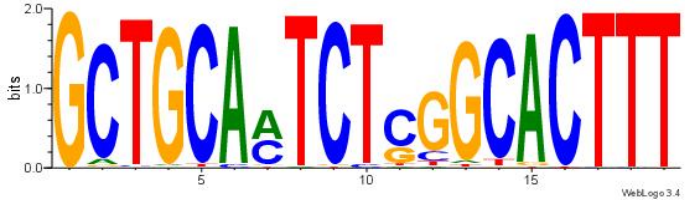

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.128524

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-TTMGTCCCAGAGGGGCACC
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

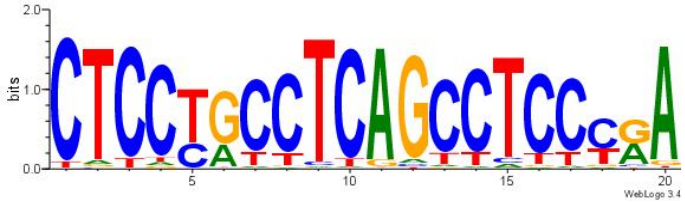

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

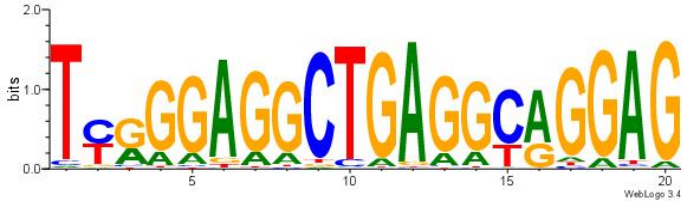

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.129427

Alignment:
ATGATCCAGCAATYCCACTH
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

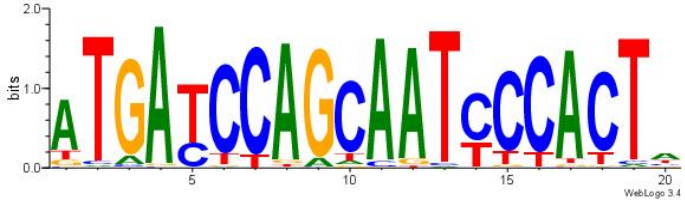

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

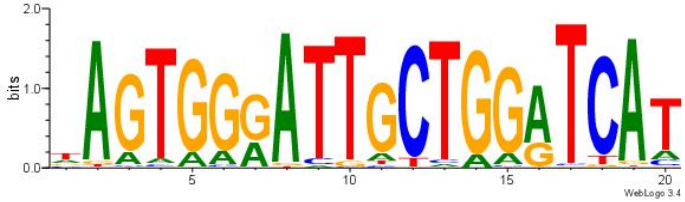

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.130038

Alignment:
GGTGGAGCTGCCTGCCAGTC
-GGTGCCCCTCTGGGACRAA

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

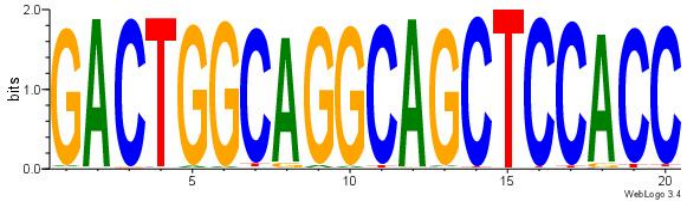

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

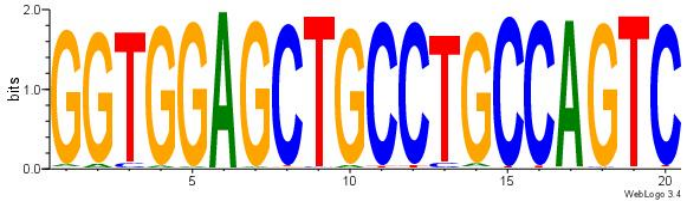

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130113

Alignment:

```
GCTTAGCACCYGGGCCAGC
GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

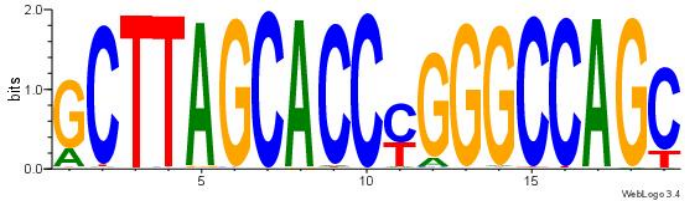

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

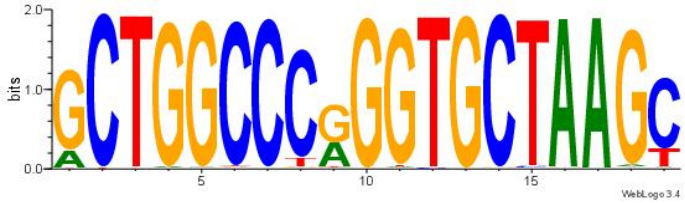

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.131405

Alignment:

```
ACCTGGAAAATCGGGTCACT
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

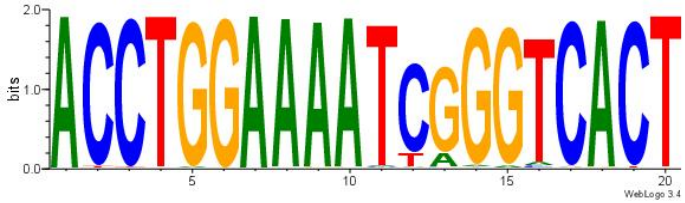

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

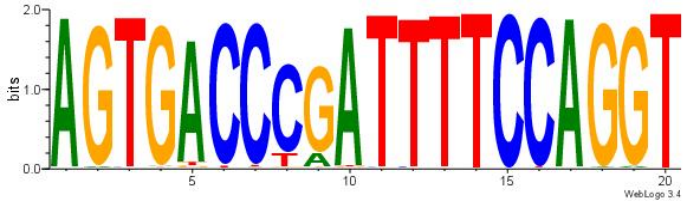

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.131756

Alignment:
AGAGCCAAATCATGARTGAA
-GGTGCCCCTCTGGGACRAA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

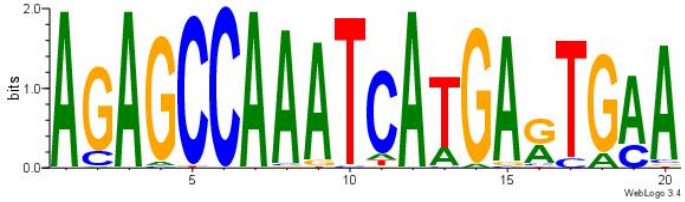

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

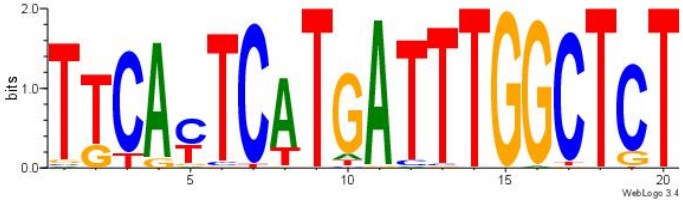

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.131788

Alignment:
CTGACTGGGAGACACCTCCC
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

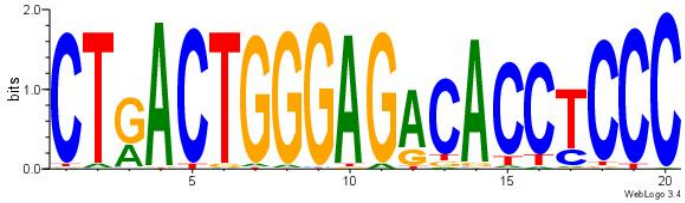

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

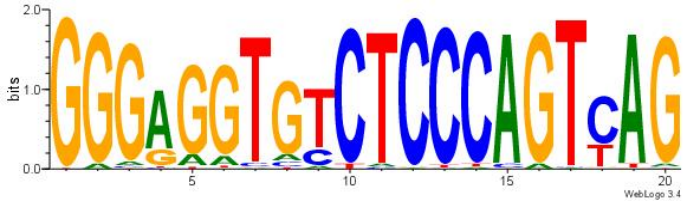

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132218

Alignment:

```
CACCAGACTCAGGAGCCCAG
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

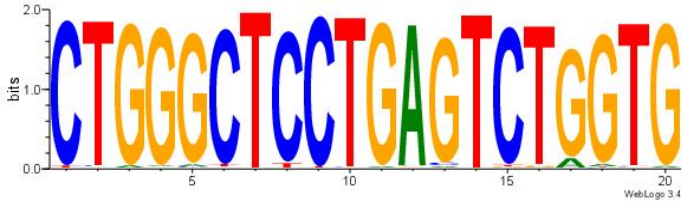

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

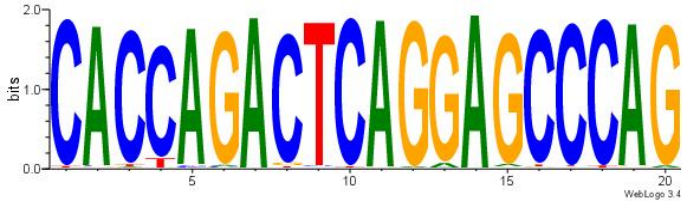

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132226

Alignment:

```
GAATACCTCCTGAAGGACCT
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

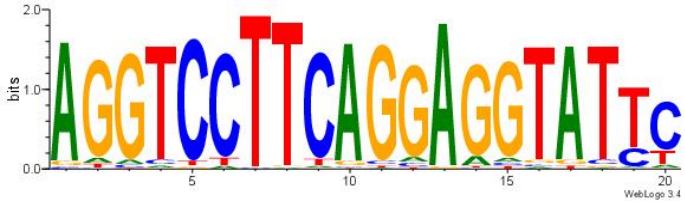

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

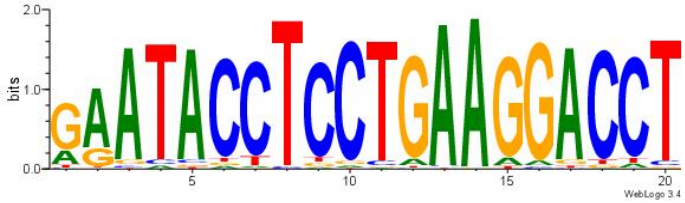

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.132481

Alignment:
AAGCTCGAACTGGGTGGAGC
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

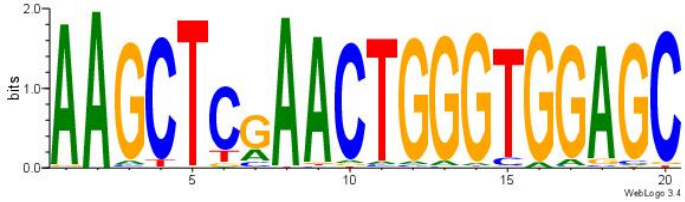

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

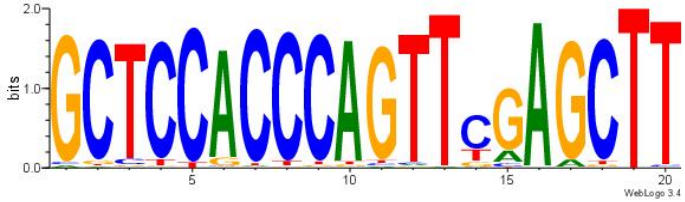

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.132597

Alignment:
CTCATTTAATCCTCACAAC
TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

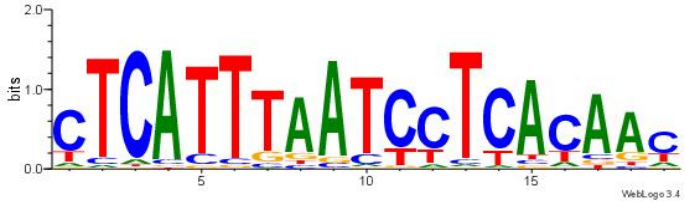

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

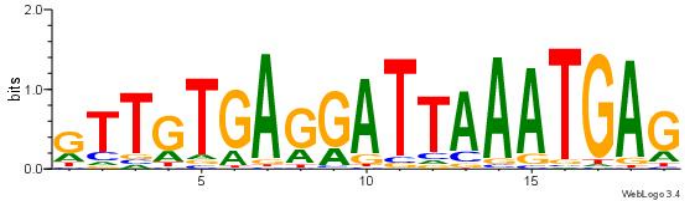

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132656

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

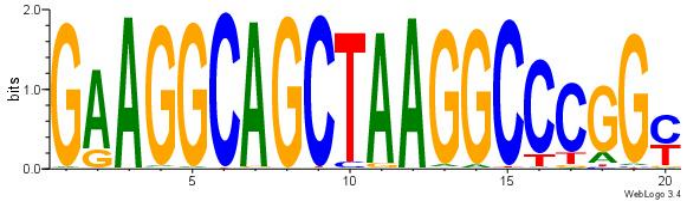

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

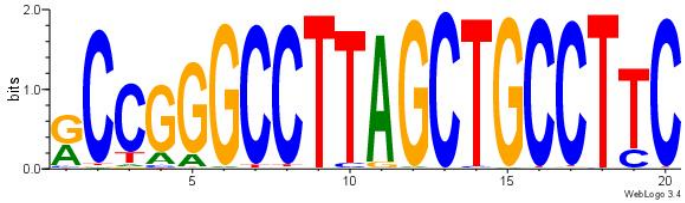

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132681

Alignment:
GTGGCCCTCTTCTCACAGCT
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

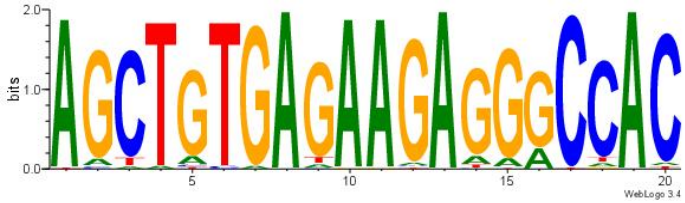

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

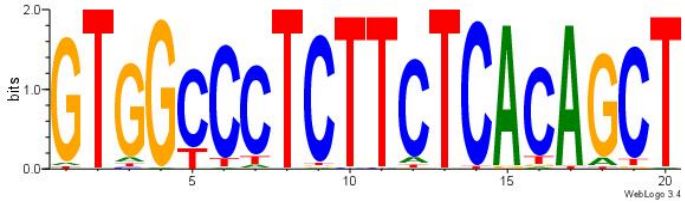

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.133719

Alignment:
CGGCGCTGMGCTCGATTTCT
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

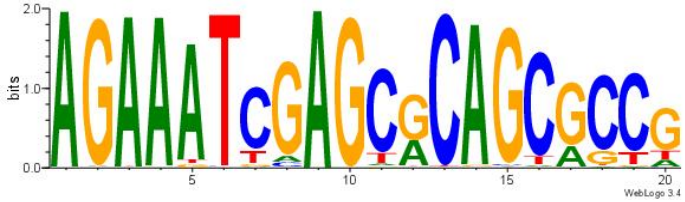

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

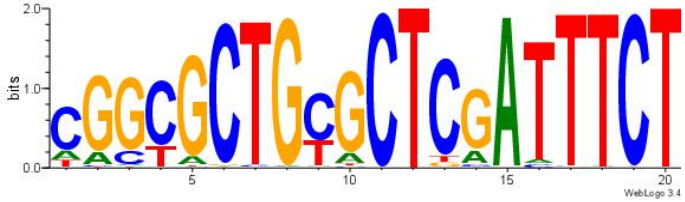

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.133847

Alignment:
AGGTTTGTTACATAGGTAWA
-GGTGCCCCTCTGGGACRAA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

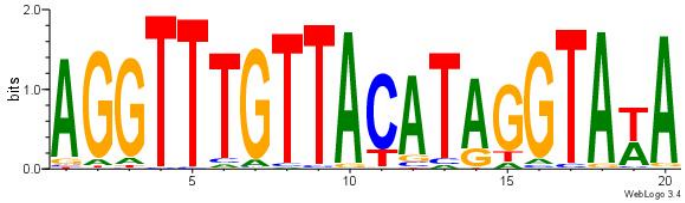

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

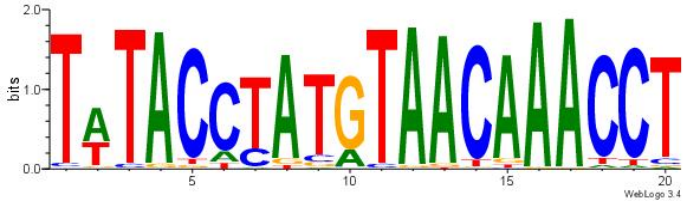

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13401

Alignment:

```
CCCATGCAAGTCYRAAATCC
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

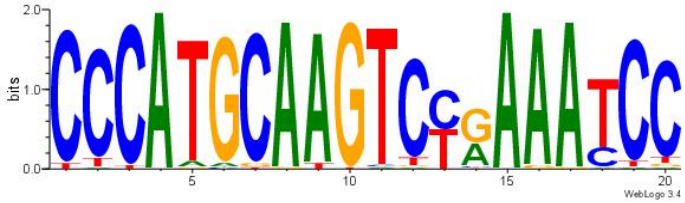

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

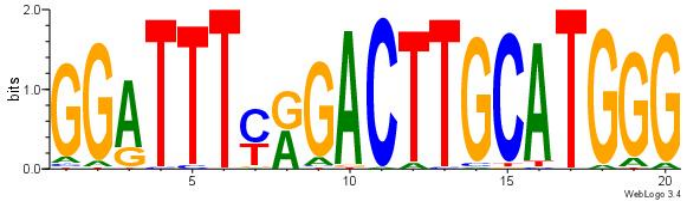

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134529

Alignment:

```
TTGGTAGGATCCGTGATGCC
TTMGTCCCAGAGGGGCACC-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

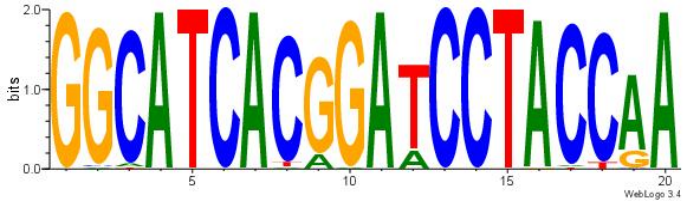

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

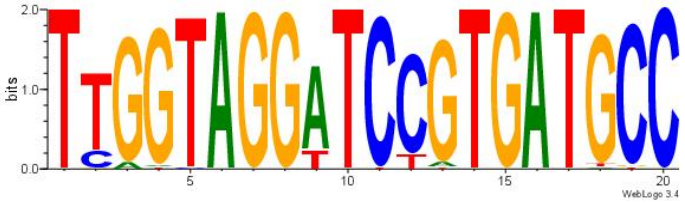

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.134932

Alignment:
ACTGTCTTCCACCTCCACAT
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

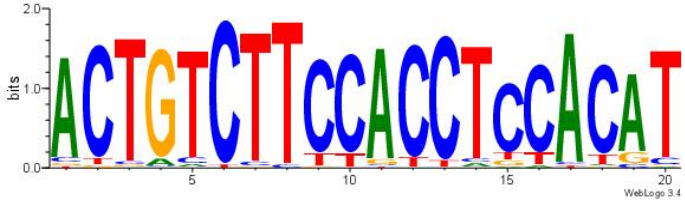

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

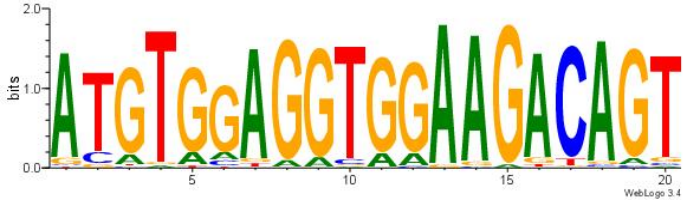

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.134961

Alignment:
VMATTTAKTGAGCACCTACT
TTMGTCCCAGAGGGGCACC-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

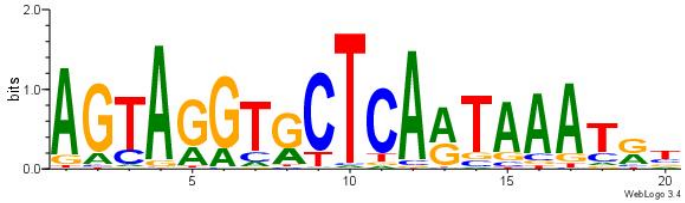

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

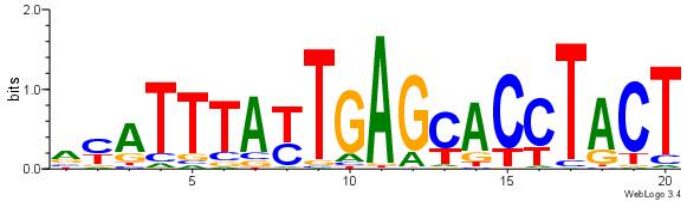

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136235

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

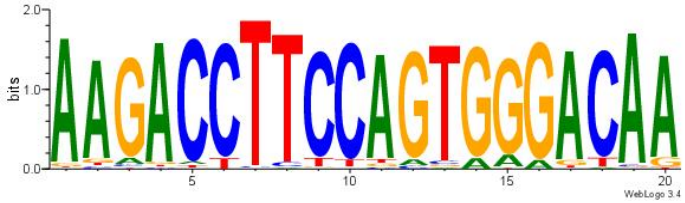

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

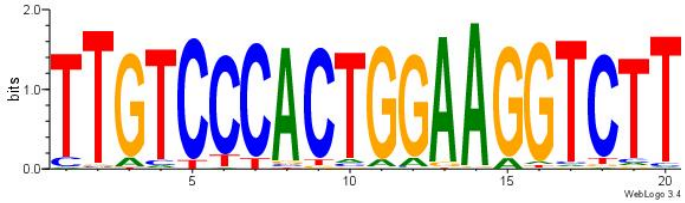

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.137852

Alignment:
GCAGCAMTATTCACAATAG
GGTGCCCCTCTGGGACRAA

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

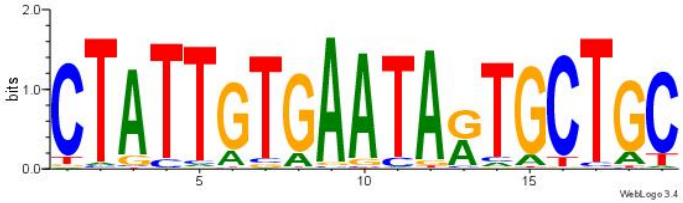

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

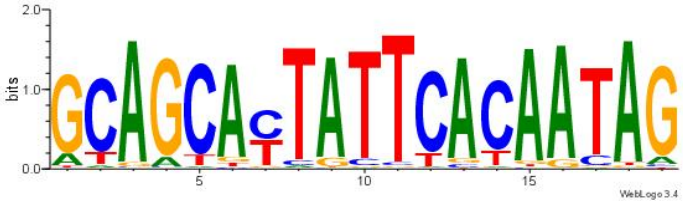

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.138003

Alignment:
TCTCTCTCTCTCTCTCTCTC
-GGTGCCCCTCTGGGACRAA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

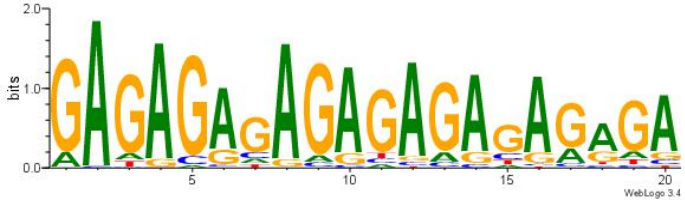

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

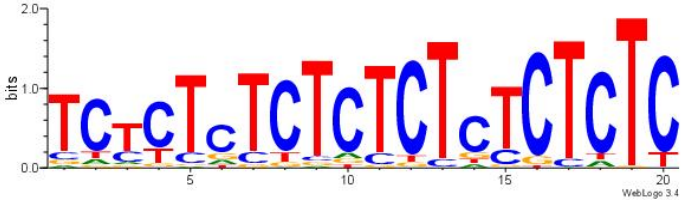

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.138028

Alignment:
CTTGCCCAAGGTCACACAGC
-TTMGTCCCAGAGGGGCACC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

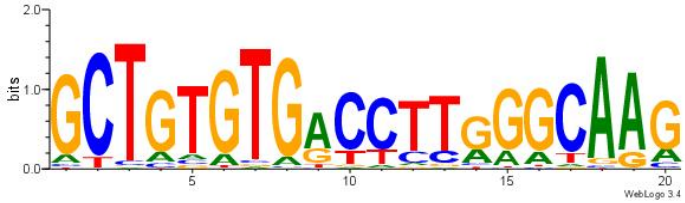

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

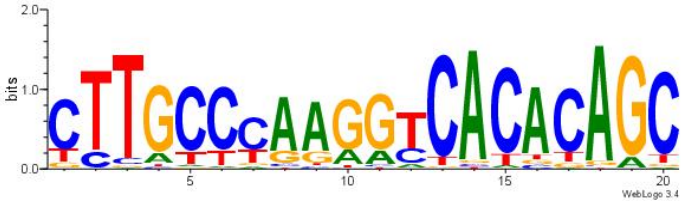

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13877

Alignment:

```
TGTGTGTGTGTKTGTGTGT
GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: ACACACAYACACACACACA

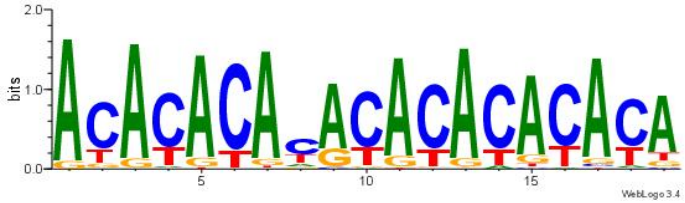

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

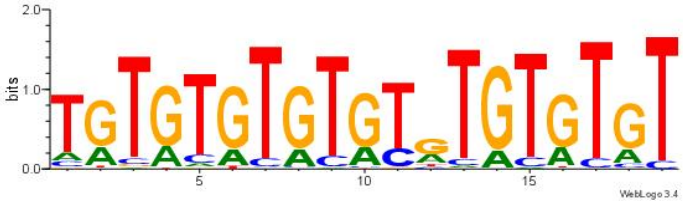

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138898

Alignment:
GCCTCTCCCTCCACACCTCC
TTMGTCCCAGAGGGGCACC-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

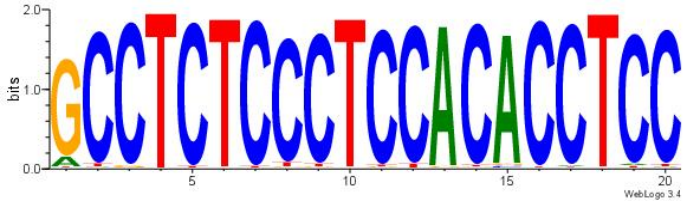

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

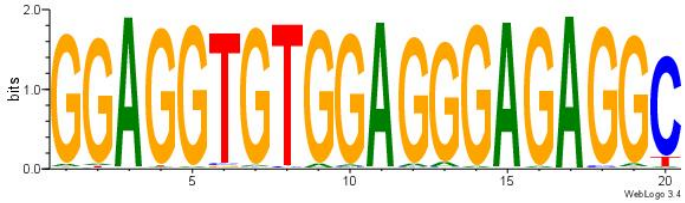

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.140088

Alignment:
AGTGAGAACATRYRRTRTTT
GGTGCCCCTCTGGGACRAA-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

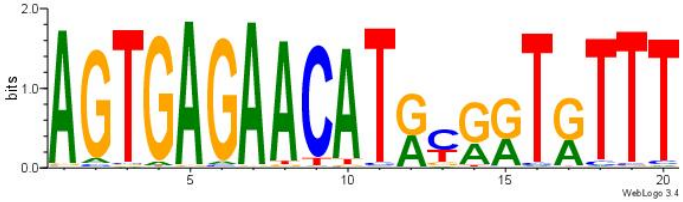

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

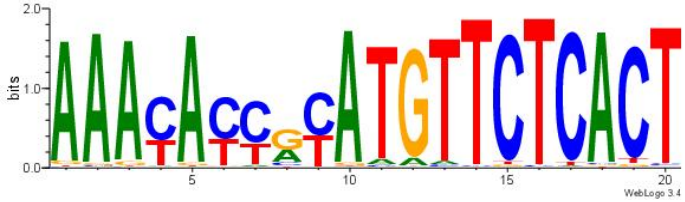

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.140335

Alignment:
ACCKTCGCGGTGAGTGTTAC
TTMGTCCCAGAGGGGCACC-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

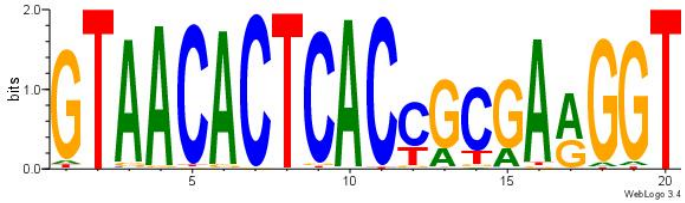

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

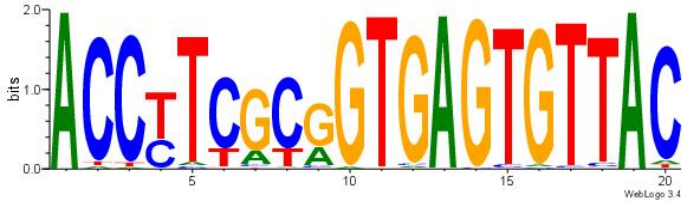

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.140538

Alignment:

```
GAAHCAACCKAAKTGTCCAT
GGTGCCCCTCTGGGACRAA-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

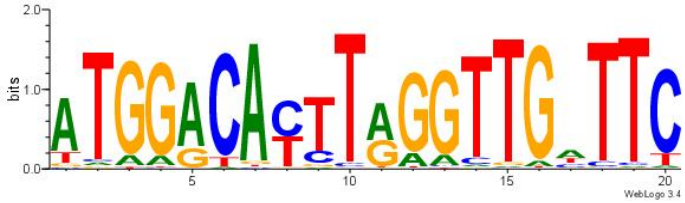

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

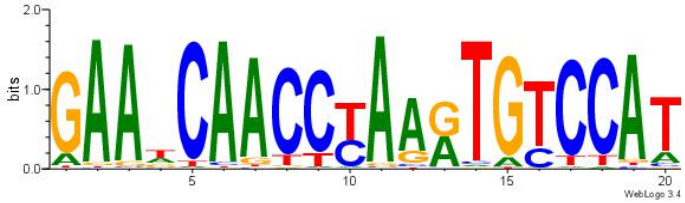

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.141057

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-GGTGCCCCTCTGGGACRAA
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

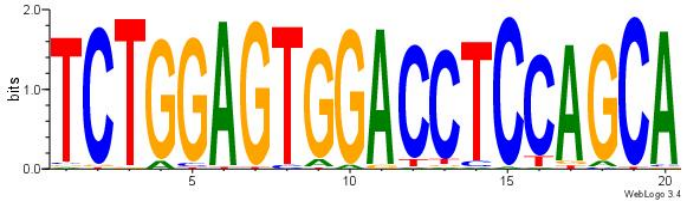

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

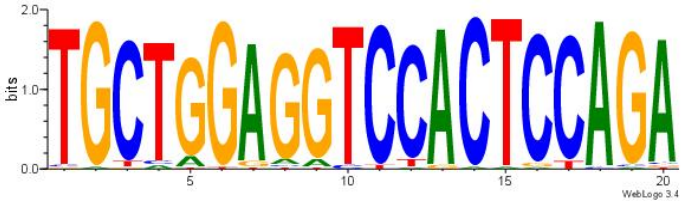

Dataset #: 1 Motif ID: 261 Motif name: Motif 261

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

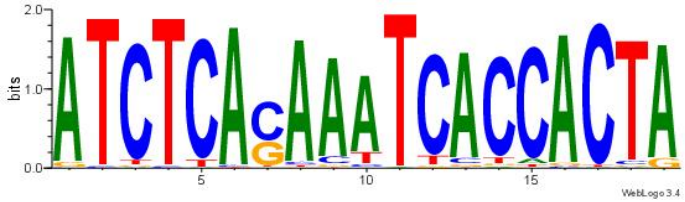

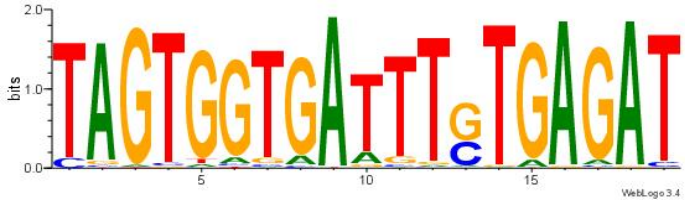

Best Matches for Motif ID 261 (Highest to Lowest)

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0782433

Alignment:

```
ATGTAACCAAAYACCACCTG
ATCTCASAAATCACCACTA-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

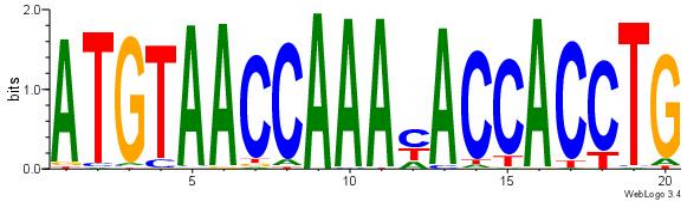

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

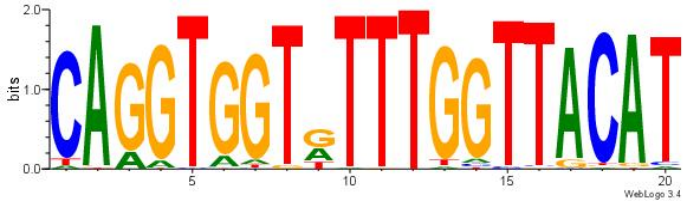

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0942998

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
ATCTCASAAATCACCACTA-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

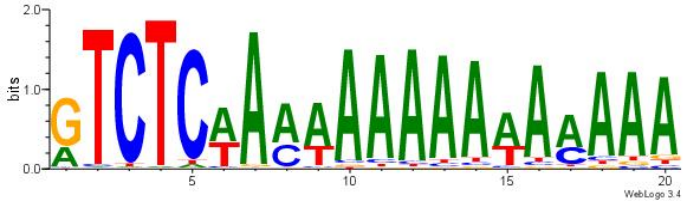

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

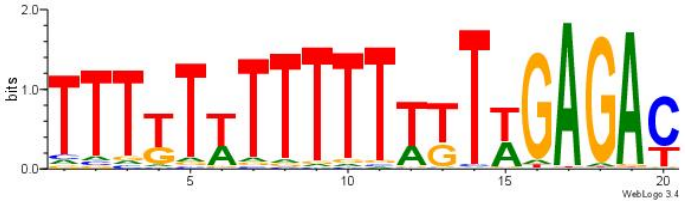

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.113215

Alignment:
KKCACCTTGATCTTGGACTT
-TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

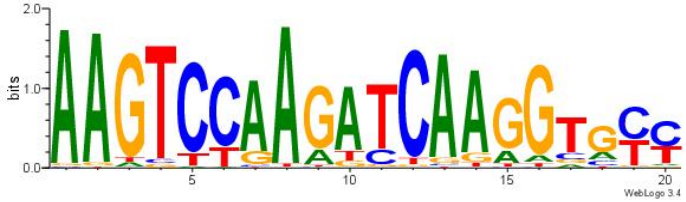

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

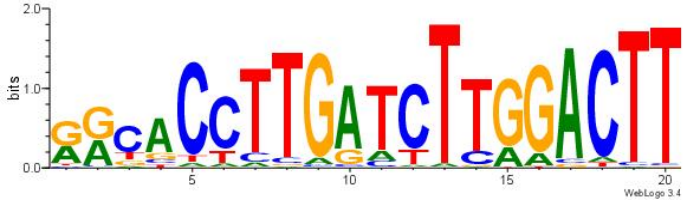

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.115495

Alignment:
GTTTAACCATTGAGGGCCAG
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

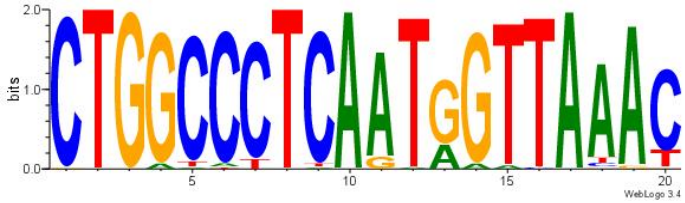

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

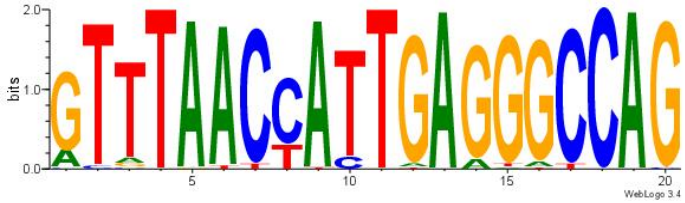

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.116588

Alignment:

```
ATGTGGAGGTGGAAGACAGT
TAGTGGTGATTTSTGAGAT-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

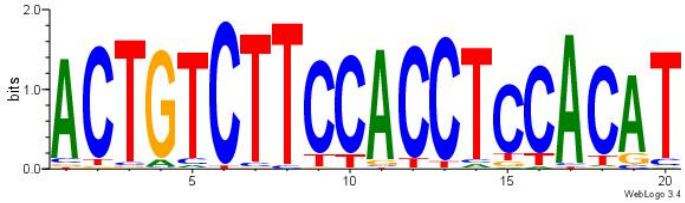

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

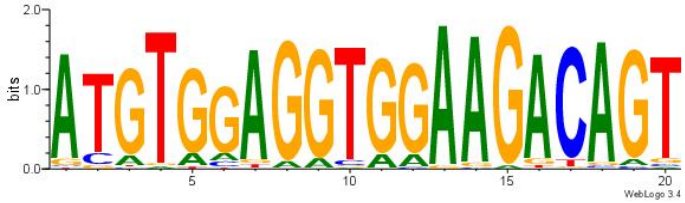

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.117304

Alignment:
GTCCCATCGACCACCCAAG
ATCTCASAAATCACCACTA

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

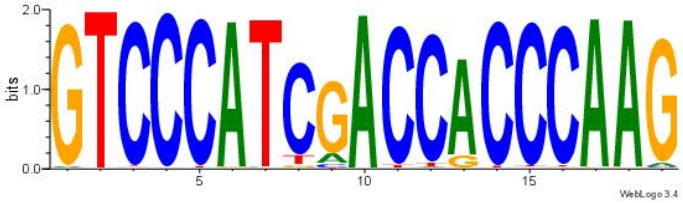

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

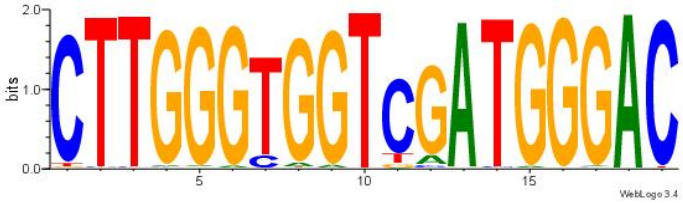

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.118045

Alignment:
TACCTGAGACTGGGTAATTT
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

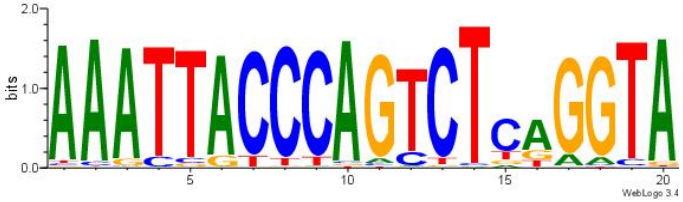

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

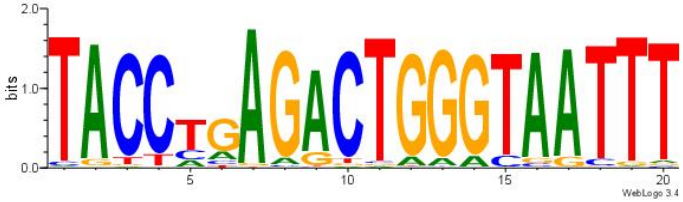

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.118119

Alignment:
ACCTGGAAAATCGGGTCACT
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

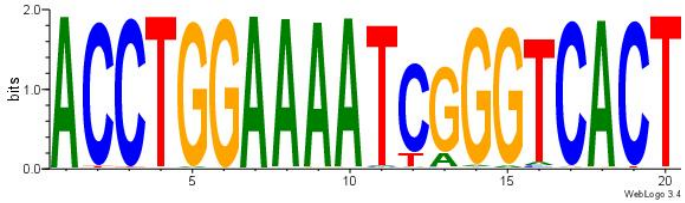

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

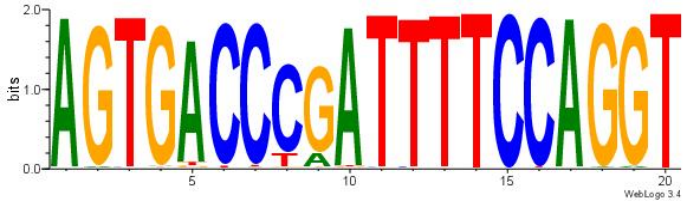

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.118465

Alignment:

```
GCAGCAMTATTCACAATAG
ATCTCASAAATCACCACTA
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

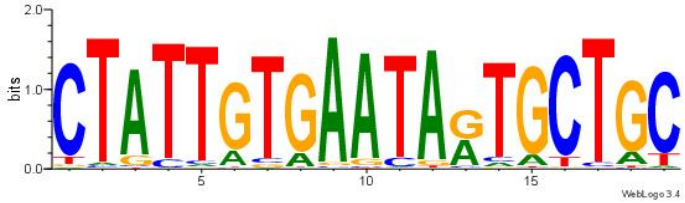

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

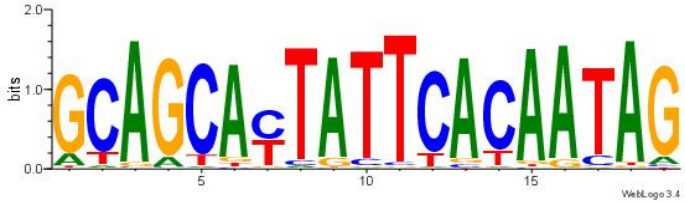

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.118687

Alignment:

```
GCCTCTCCCTCCACACCTCC
ATCTCASAAATCACCACTA-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

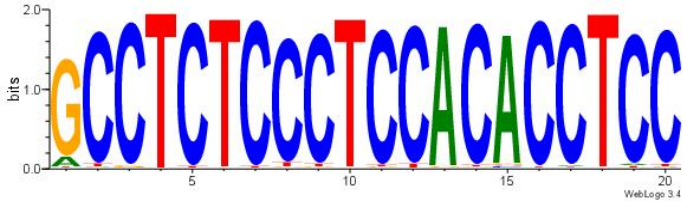

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

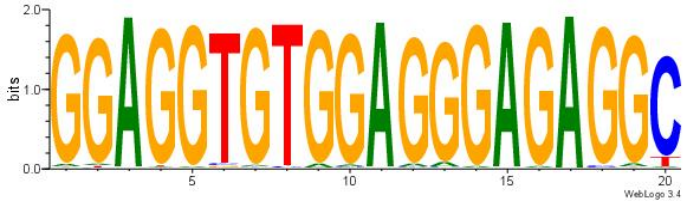

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.120854

Alignment:
HAGTGGKATTGCTGGATCAT
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

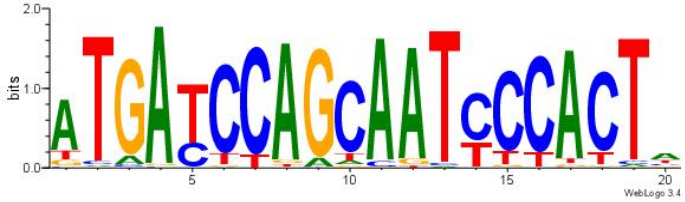

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

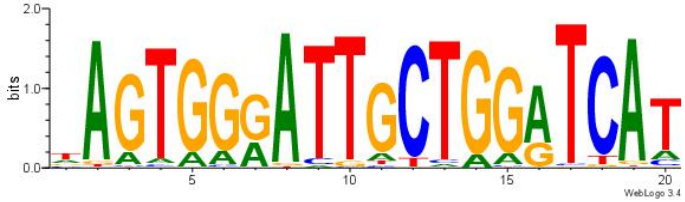

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.122199

Alignment:
AGCTGTGAGAAGAGGGCCAC
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

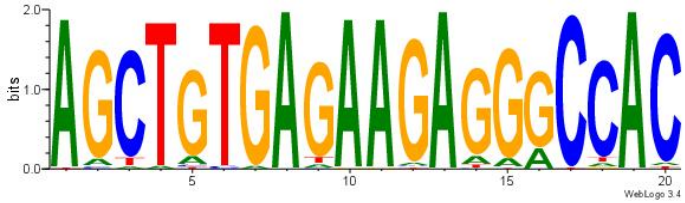

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

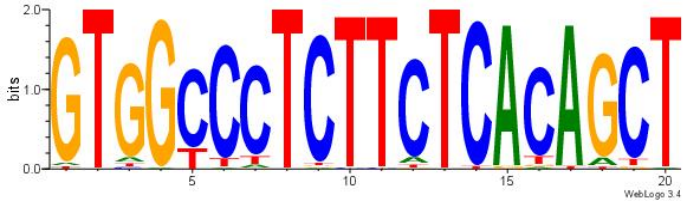

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.124182

Alignment:

```
GGCATCACGGATCCTACCAA
-ATCTCASAAATCACCACTA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

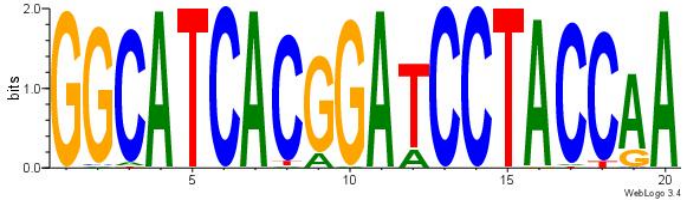

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

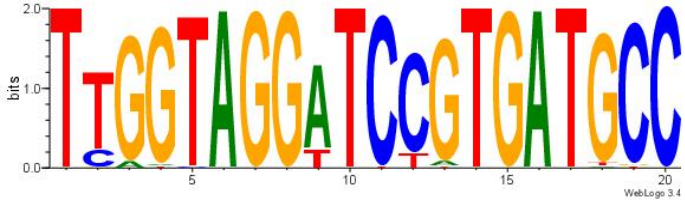

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.126476

Alignment:

```
GGATTTMKGACTTGCATGGG
-TAGTGGTGATTTSTGAGAT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

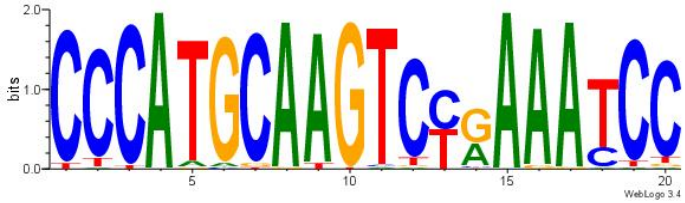

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

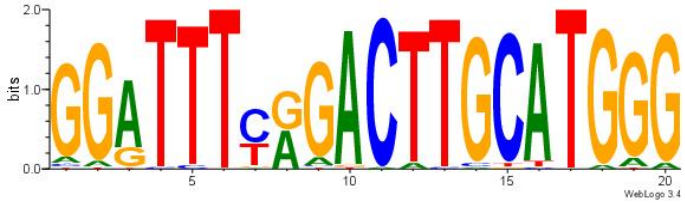

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.127955

Alignment:
GCTGTGTGACCTTGGGCAAG
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

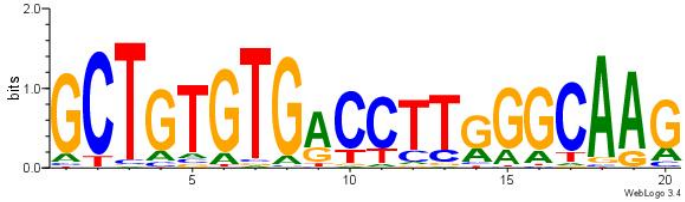

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

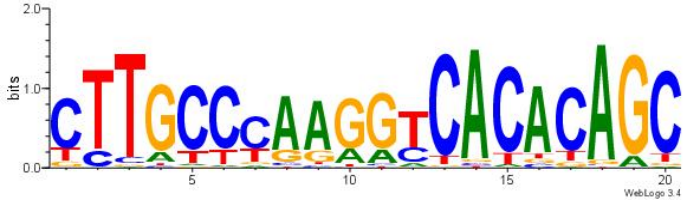

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.128

Alignment:
CAGTCTGTGTCTTTTAATT
TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

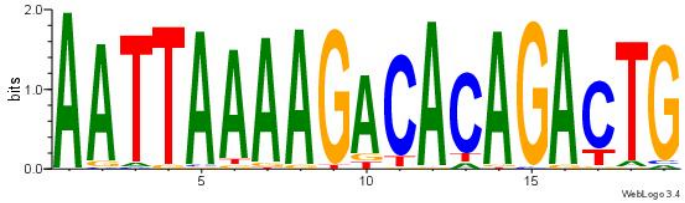

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

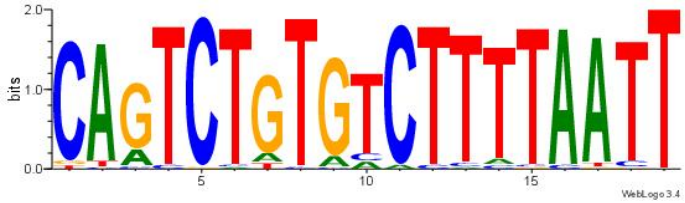

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.128279

Alignment:

```
ATAGGAATGCTTGTGATTTT
TAGTGGTGATTTSTGAGAT-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

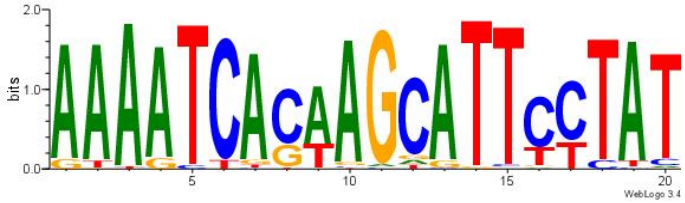

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

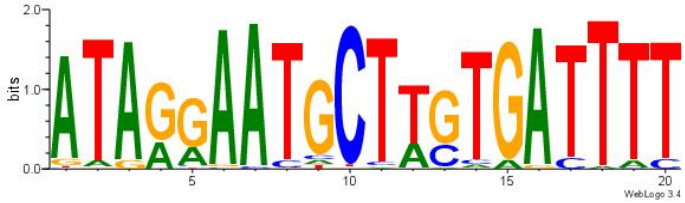

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.128787

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
TAGTGGTGATTTSTGAGAT-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

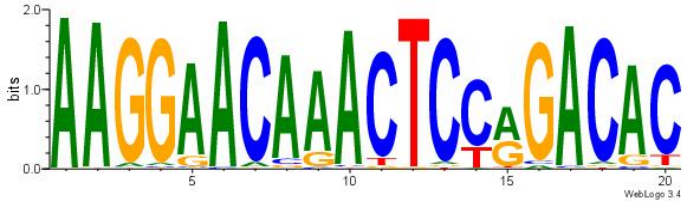

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

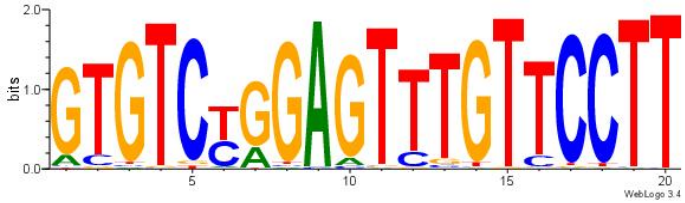

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.130044

Alignment:
TMGGGAGGCTGAGGCAGGAG
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

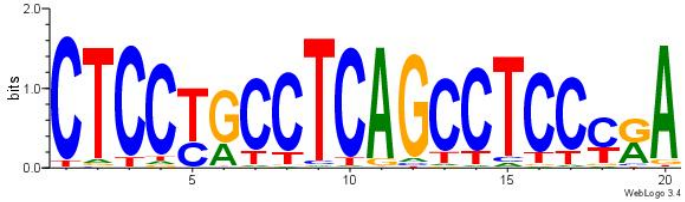

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

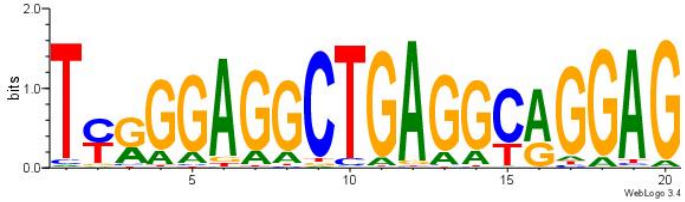

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.131453

Alignment:
CAGCTACTCKTATACCCTTG
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

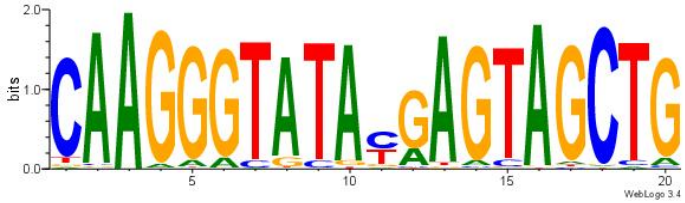

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

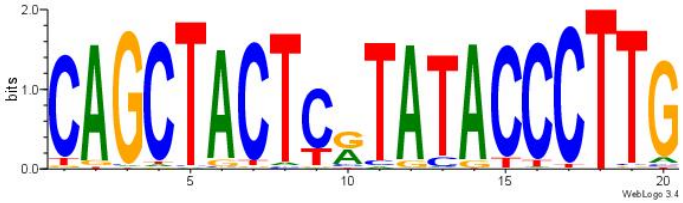

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.131916

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
-TAGTGGTGATTTSTGAGAT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

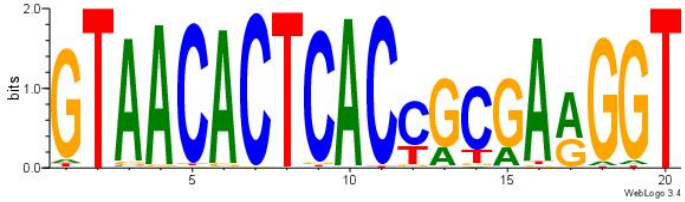

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

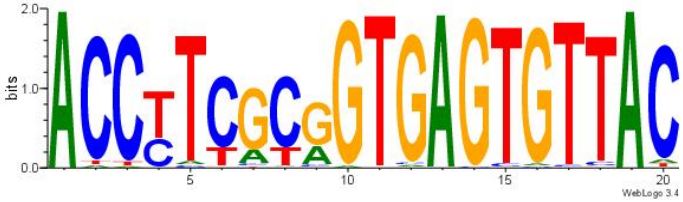

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.131926

Alignment:

```
CTAGACATAAAGGTTCTCCA
-ATCTCASAAATCACCACTA
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

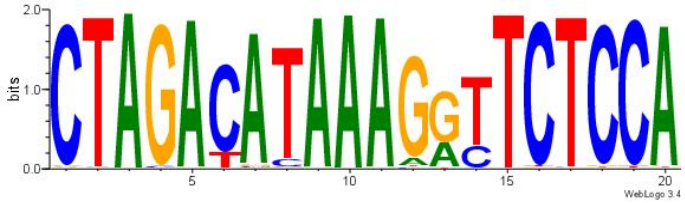

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

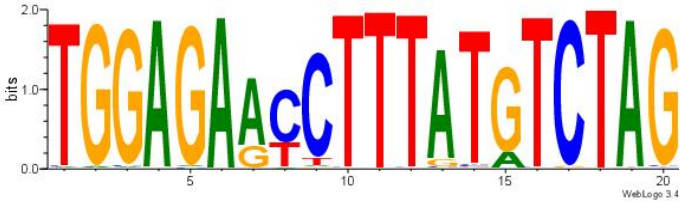

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 19
Similarity score: 0.132813

Alignment:
CCGCTGCACTGTGGGAGCCC
-TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

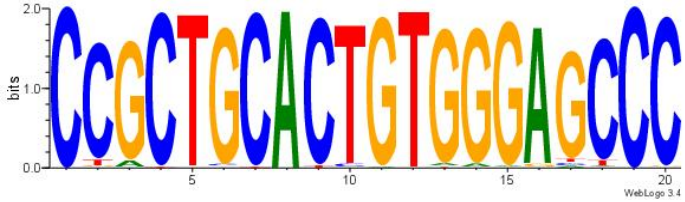

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

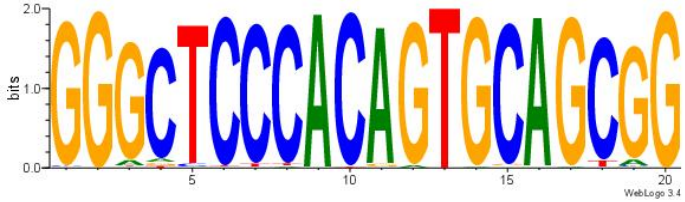

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.133078

Alignment:
AAAATGTGGTAYATAYAYAC
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

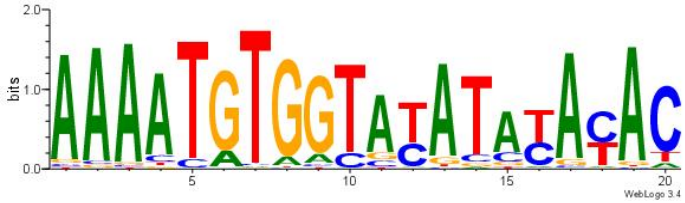

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

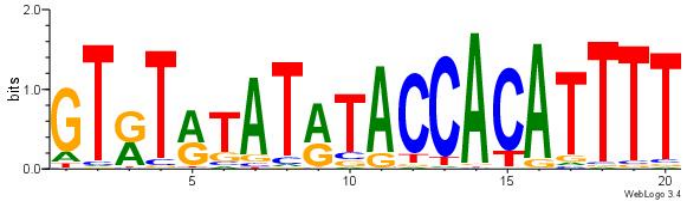

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133172

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-TAGTGGTGATTTSTGAGAT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

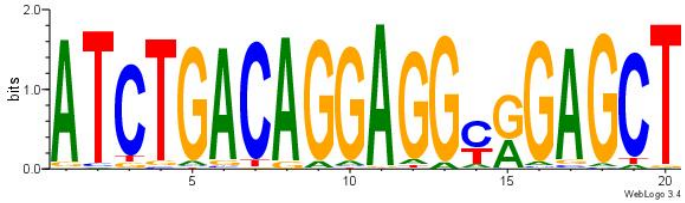

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

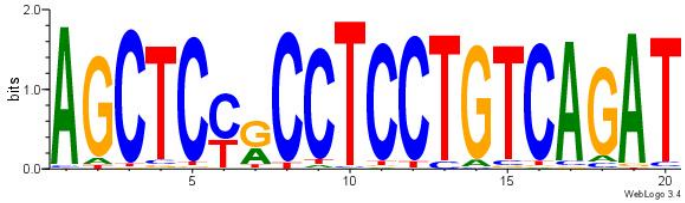

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.133684

Alignment:

```
CAAGTTGACACATAAAATTA
-ATCTCASAAATCACCACTA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

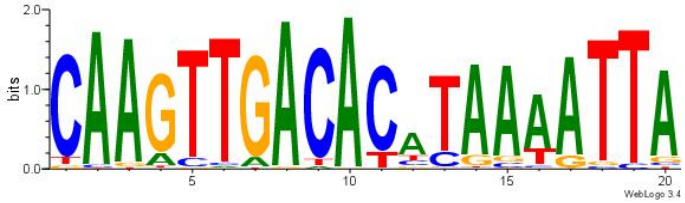

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

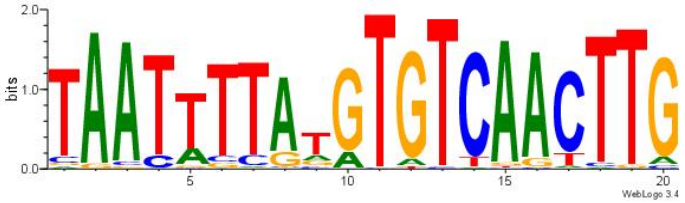

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.133735

Alignment:
ATGGCTGAATAKTATTCCAT
-TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

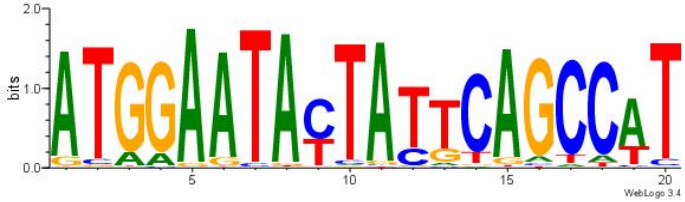

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

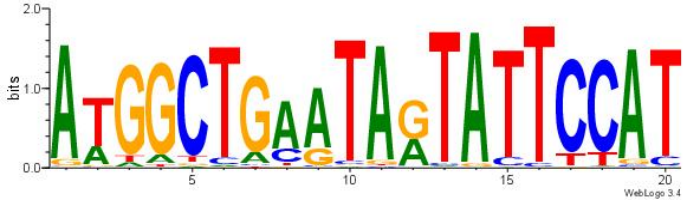

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.133992

Alignment:
ATTGGTGTATTTACAATCCC
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

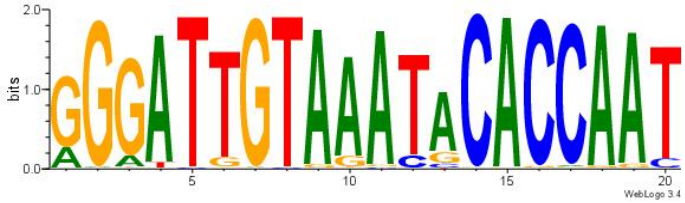

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134343

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-TAGTGGTGATTTSTGAGAT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

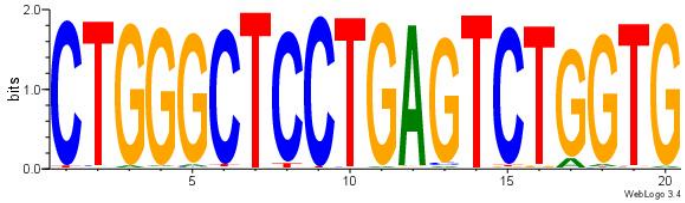

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

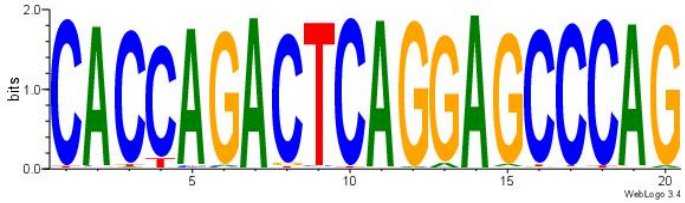

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.134639

Alignment:
GAAAGGGAACTCCCTGACCC
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

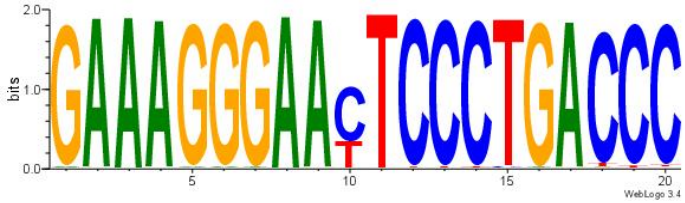

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

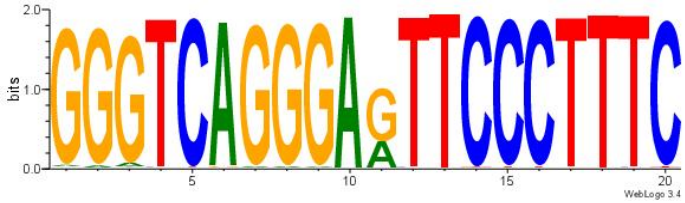

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.135068

Alignment:
TAGATAATAGCTCCAGCTTT
-ATCTCASAAATCACCACTA

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

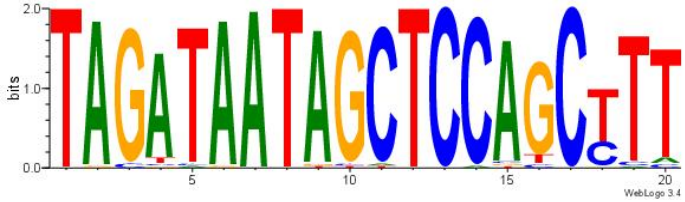

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

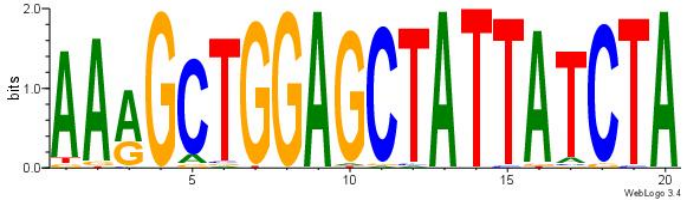

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.135073

Alignment:
TCTCTCTCTCTCTCTCTCTC
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

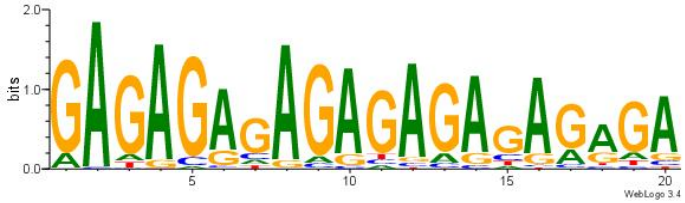

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

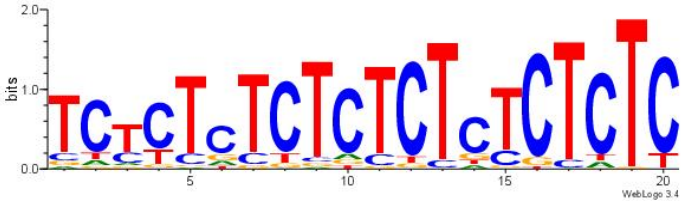

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135755

Alignment:

```
AGTAGGTGCTCARTAAATRB
-TAGTGGTGATTTSTGAGAT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

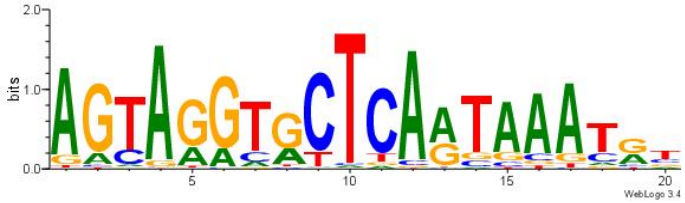

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

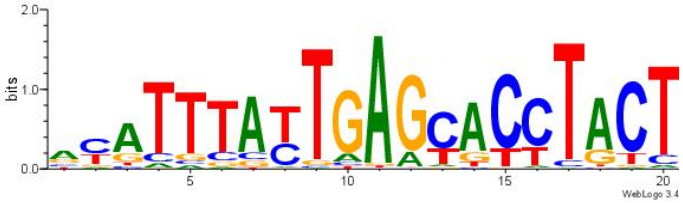

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.136079

Alignment:

```
AACAACASACACTGGGGCCT
ATCTCASAAATCACCACTA-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

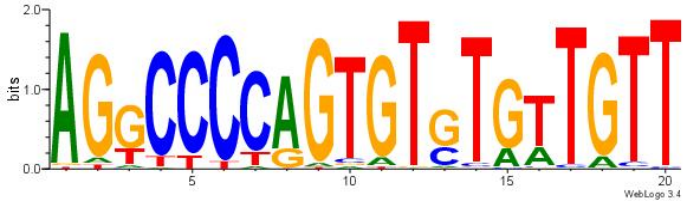

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

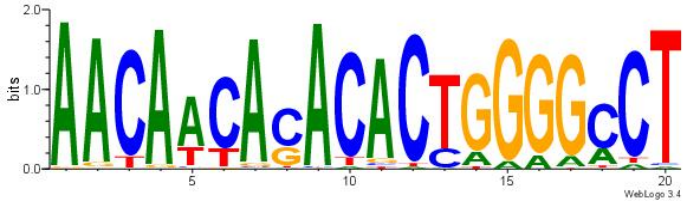

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 19
Similarity score: 0.136871

Alignment:
CTTTCTGGGCTGGCCAAGG
ATCTCASAAATCACCACTA

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

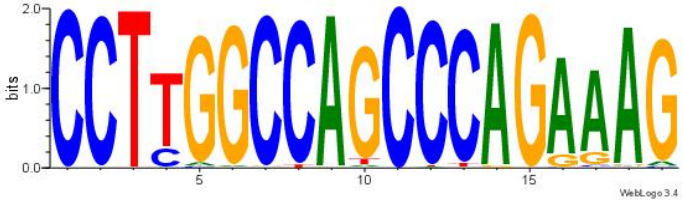

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

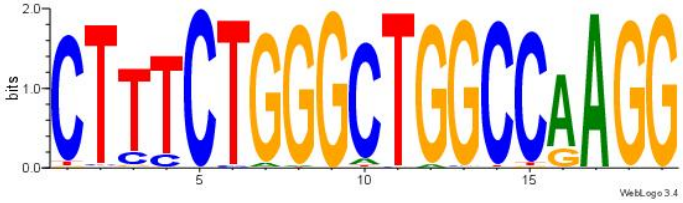

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.137978

Alignment:
GCCKGGMKCMGTGGCTCAKG
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

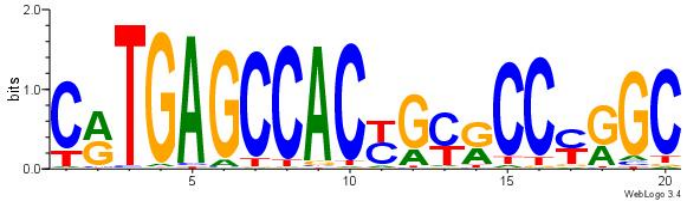

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

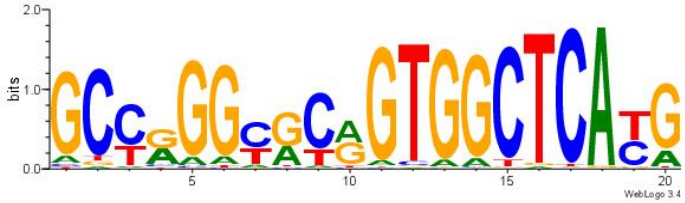

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.137982

Alignment:

```
GCCAGTCACAAAARGACAMA
ATCTCASAAATCACCACTA-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

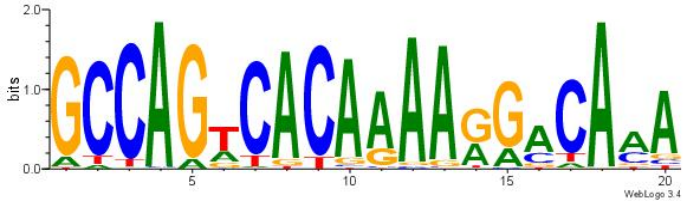

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

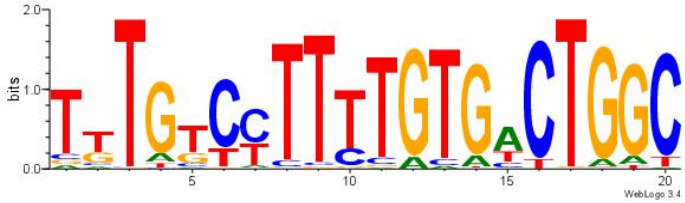

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138191

Alignment:
AACCCTATTGTGAACTGYG
ATCTCASAAATCACCACTA

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

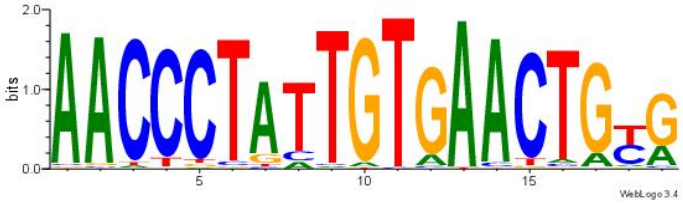

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

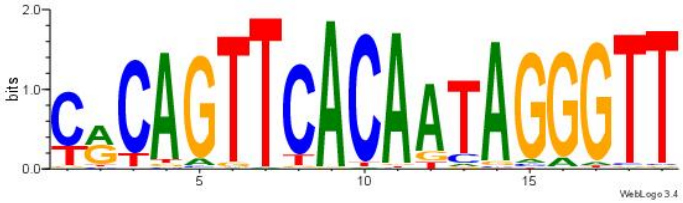

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.138506

Alignment:
MTCCTCCAGACCCCAGAATG
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

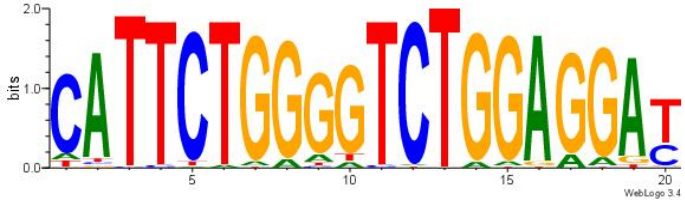

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

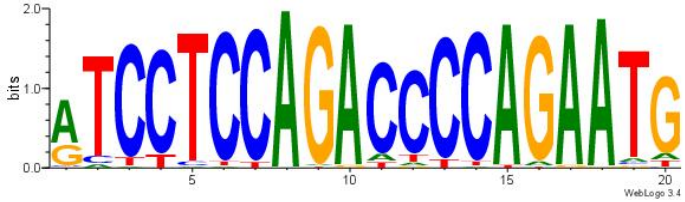

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.138974

Alignment:
TWTACCTATGTAACAAACCT
-ATCTCASAAATCACCACTA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

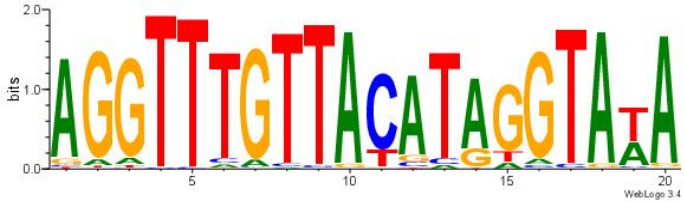

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

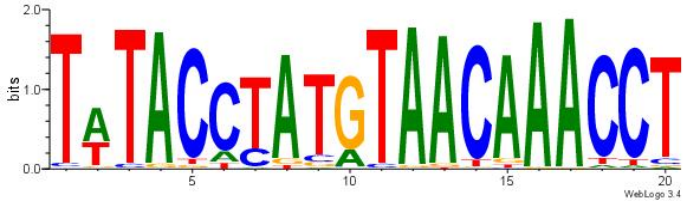

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13935

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-ATCTCASAAATCACCACTA
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

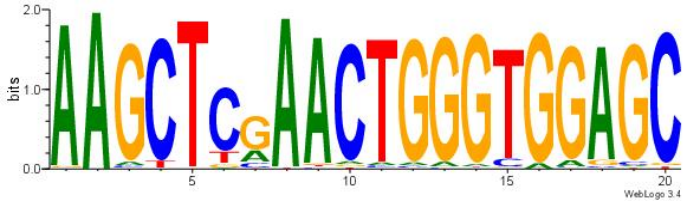

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

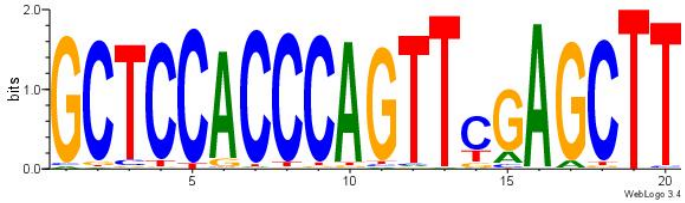

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139382

Alignment:
MGTCTMKCTCTGTKGCCCAG
ATCTCASAAATCACCACTA-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

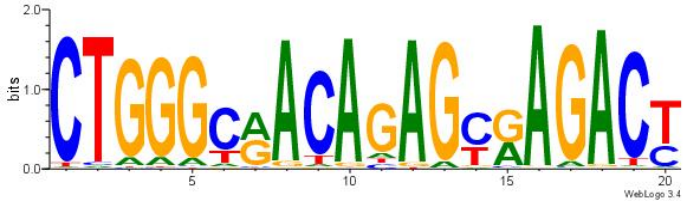

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

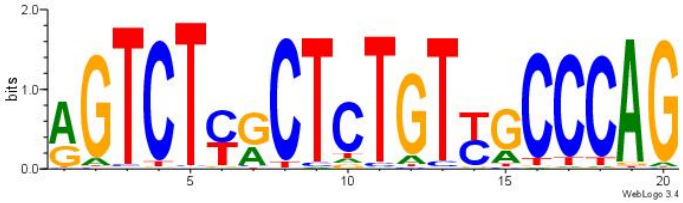

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 19
Similarity score: 0.139656

Alignment:
GTGCCAGGCACTGTKCTARG
-TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

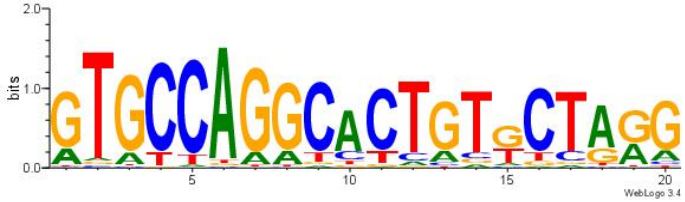

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

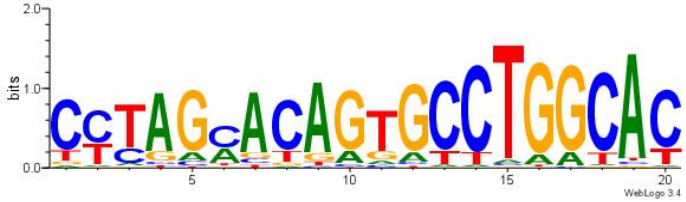

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.139743

Alignment:
TGAGKCAATTAAACCTCTT
ATCTCASAAATCACCACTA

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

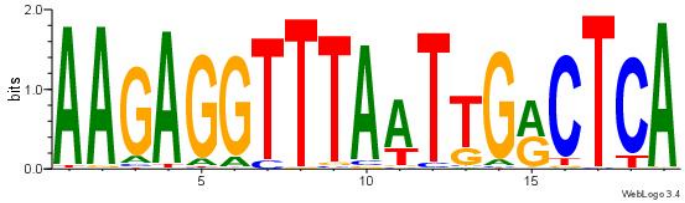

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

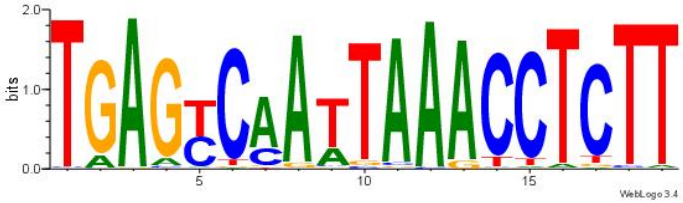

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139984

Alignment:

```
AAGTTCTKGGKTACATGTGC
TAGTGGTGATTTSTGAGAT-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

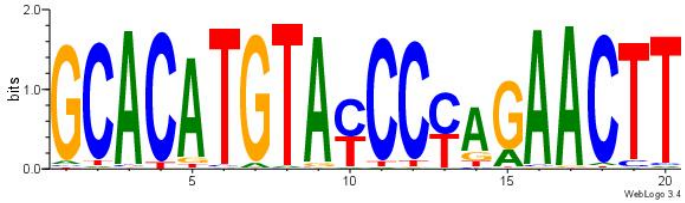

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

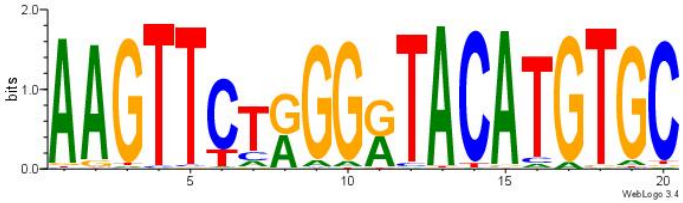

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140452

Alignment:
GCGMGCGGGAACCGGGGCT
TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

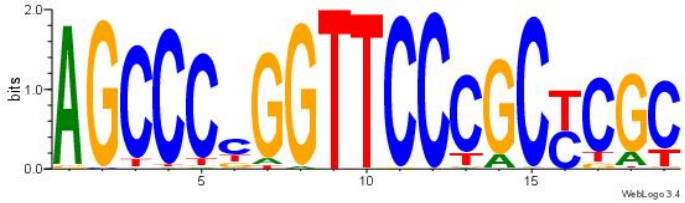

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

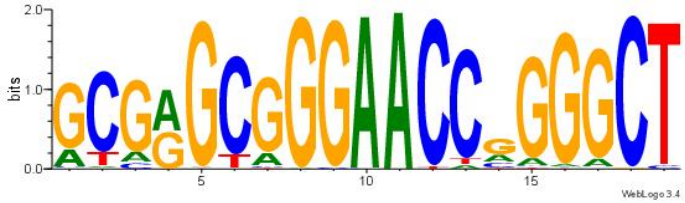

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 19
Similarity score: 0.140977

Alignment:
AWTKKTGGTTKCCAGKGGCT
TAGTGGTGATTTSTGAGAT-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

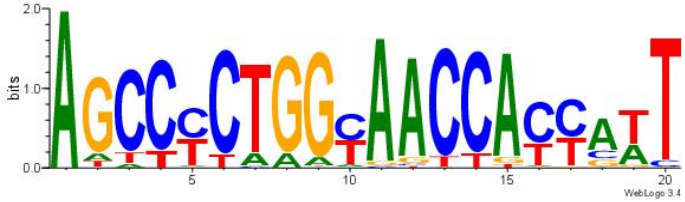

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

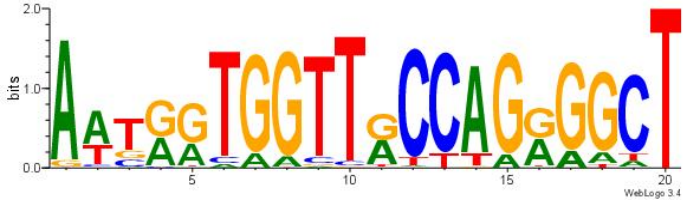

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.14105

Alignment:
TGTGTGTGTGTKTGTGTGT
TAGTGGTGATTTSTGAGAT

Original motif Consensus sequence: ACACACAYACACACACACA

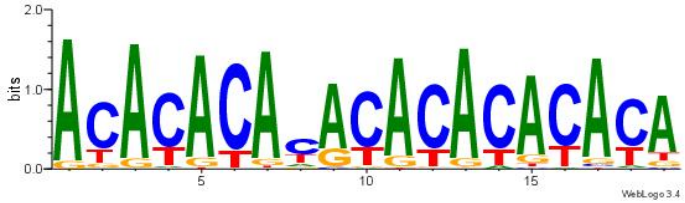

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

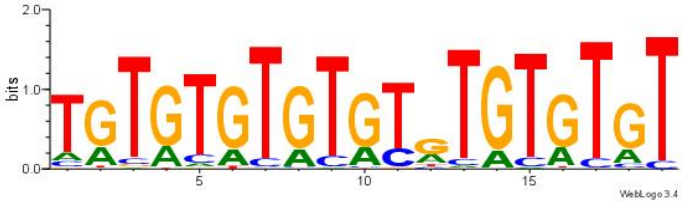

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142068

Alignment:

```
GTTGTGAGGATTAAATGAG
TAGTGGTGATTTSTGAGAT
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

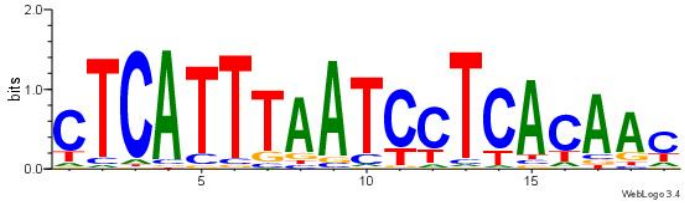

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

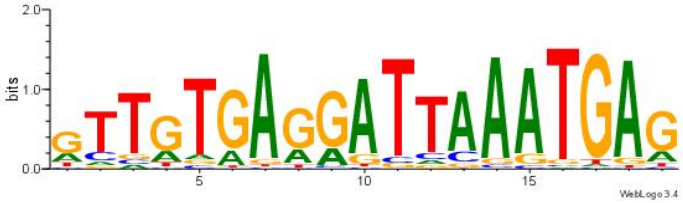

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.142514

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-ATCTCASAAATCACCACTA
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

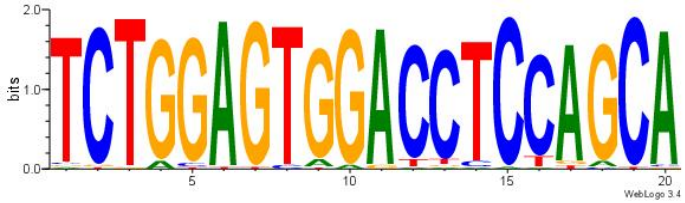

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

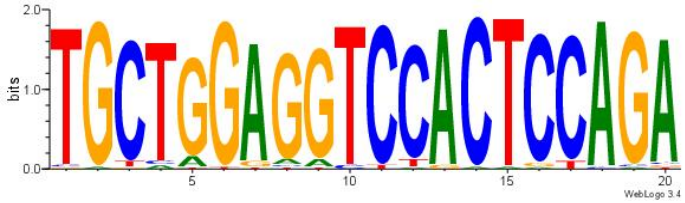

Dataset #: 1 Motif ID: 262 Motif name: Motif 262

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

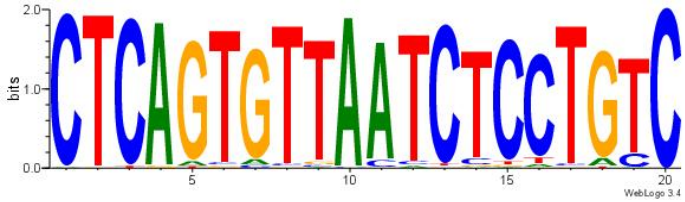

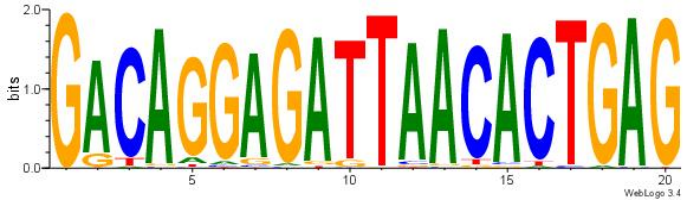

Best Matches for Motif ID 262 (Highest to Lowest)

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.108944

Alignment:

```
CTGACTGGGAGACACCTCCC
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

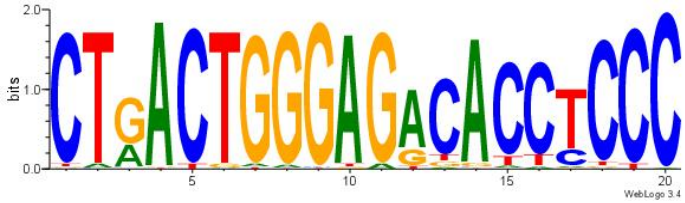

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

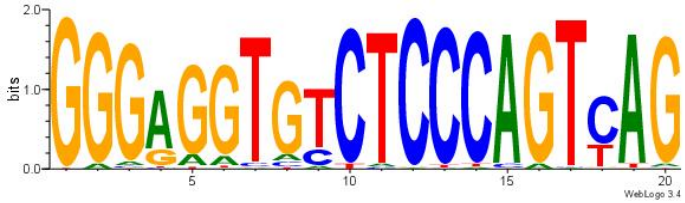

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129073

Alignment:
TCTGGAGTGGACCTCCAGCA
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

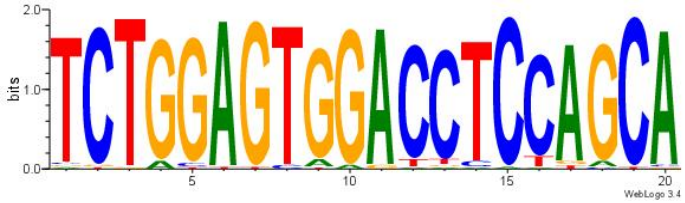

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

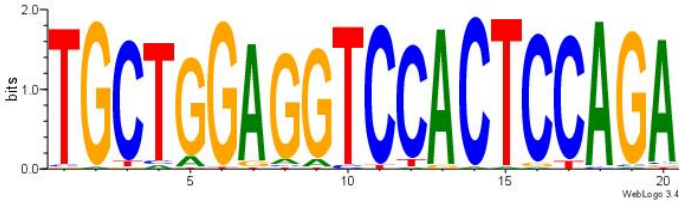

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.131966

Alignment:
CAACATGGATGRARCTGGAG
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

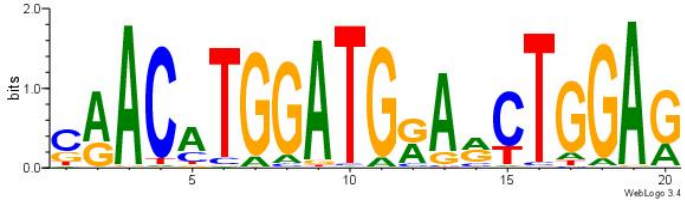

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

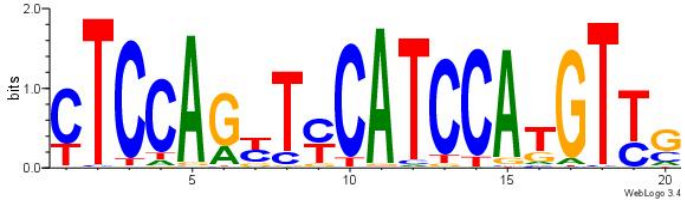

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133887

Alignment:
KCCGGGCCTTAGCTGCCTTC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

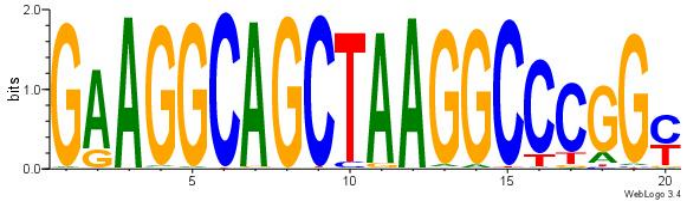

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

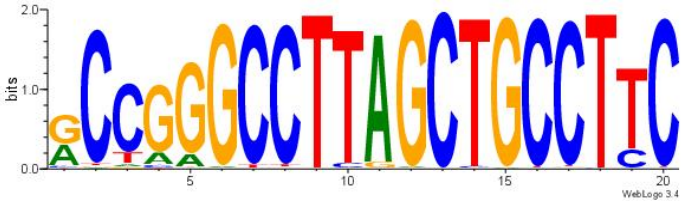

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138871

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

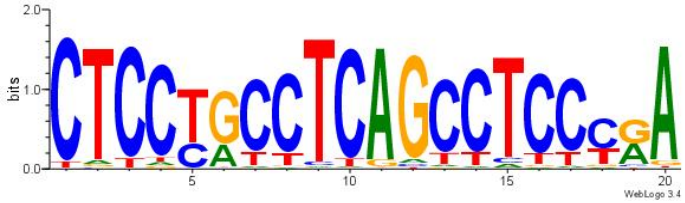

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

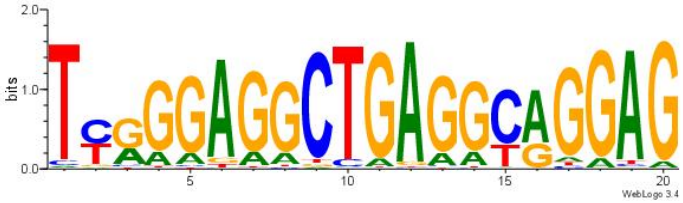

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138967

Alignment:

VMATTTAKTGAGCACCTACT

CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

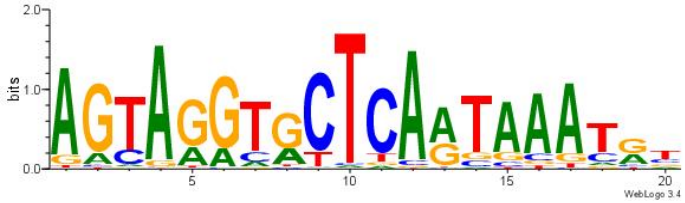

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

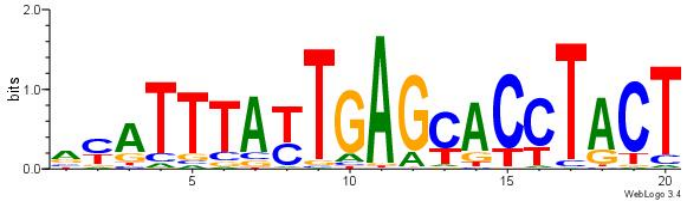

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.14044

Alignment:
GTKTMTATMTACCACATTTT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

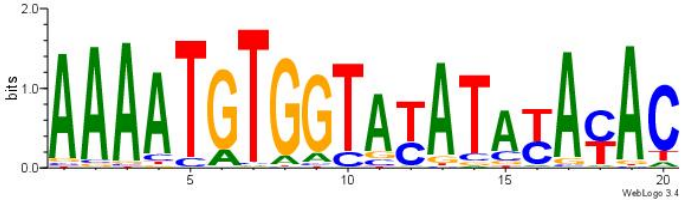

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

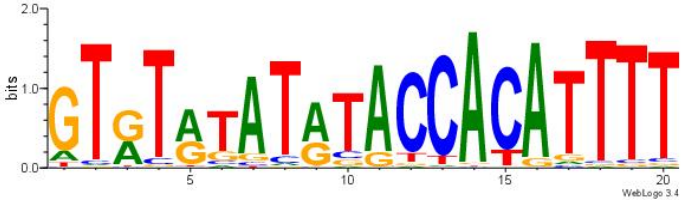

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140916

Alignment:
GGGTCAGGGAGTTCCCTTTC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

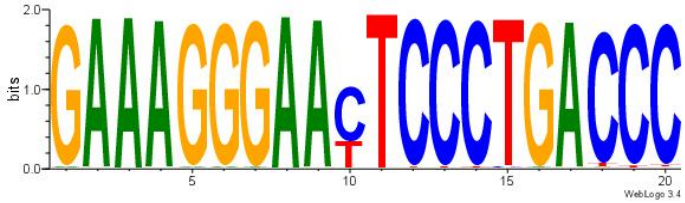

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

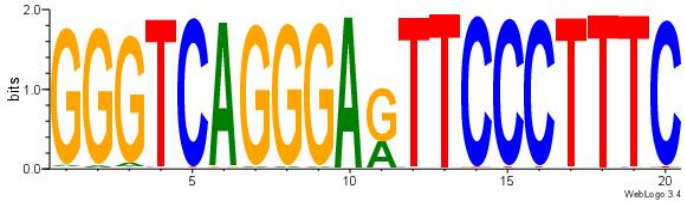

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141301

Alignment:

```
CTAGACATAAAGGTTCTCCA
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

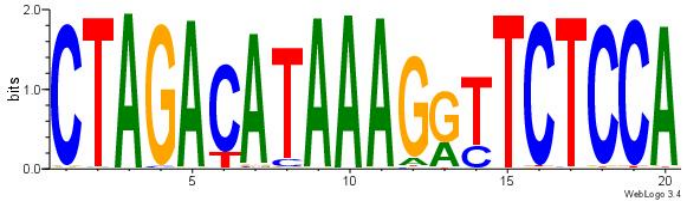

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

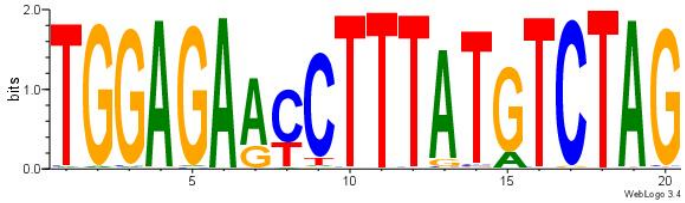

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142346

Alignment:
AGAGCCAAATCATGARTGAA
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

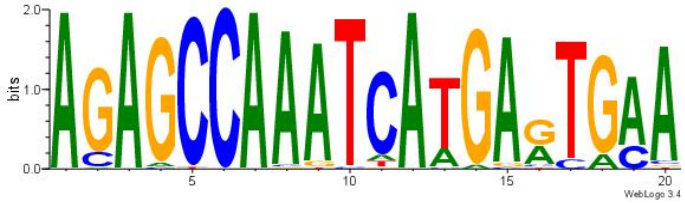

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

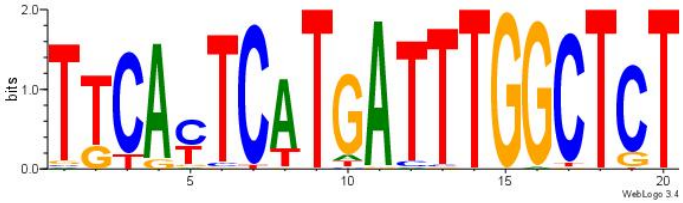

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.144167

Alignment:
ATTGGTGTATTTACAATCCC
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

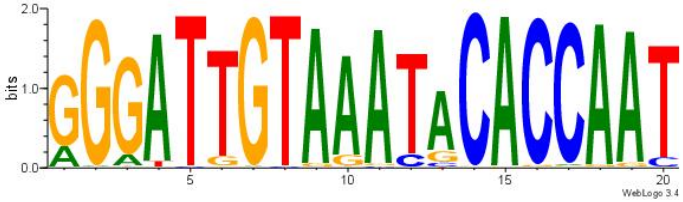

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.145791

Alignment:
GACTGGCAGGCAGCTCCACC
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

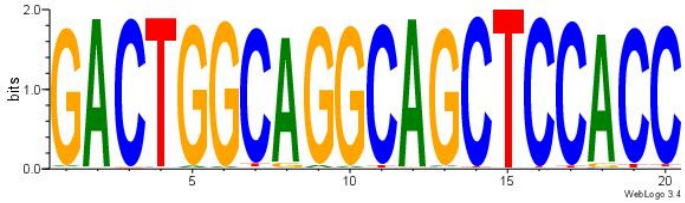

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

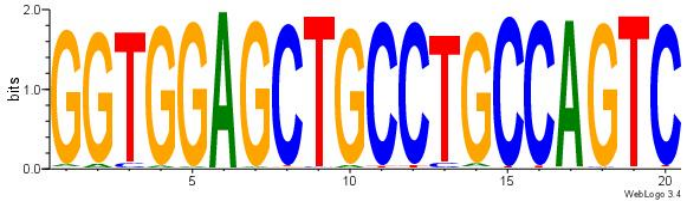

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146352

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

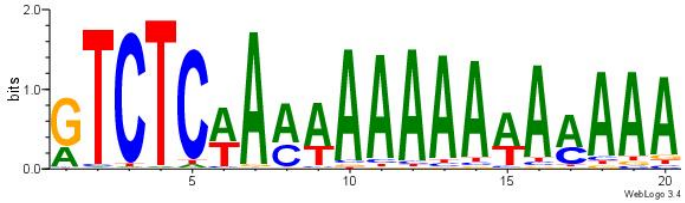

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

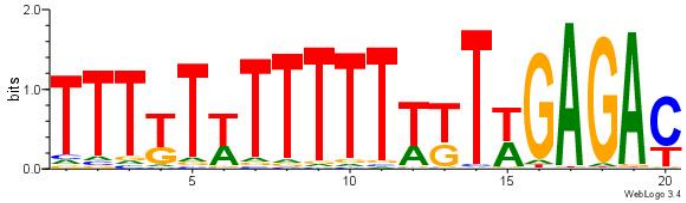

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146837

Alignment:
TYTGTCMTTTTGTGACTGGC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

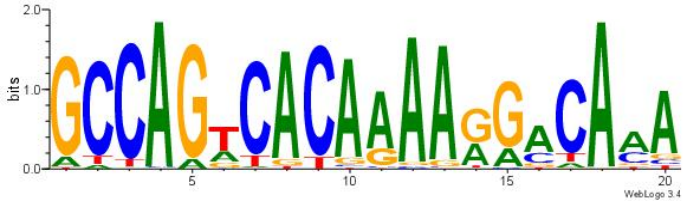

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

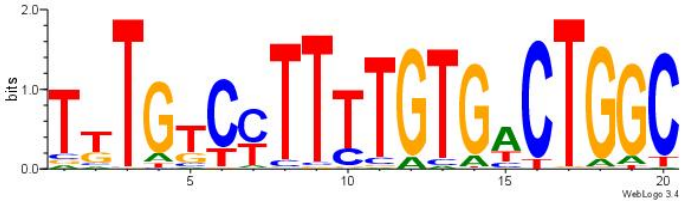

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.147767

Alignment:
CMTAGYACAGTGCCTGGCAC
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

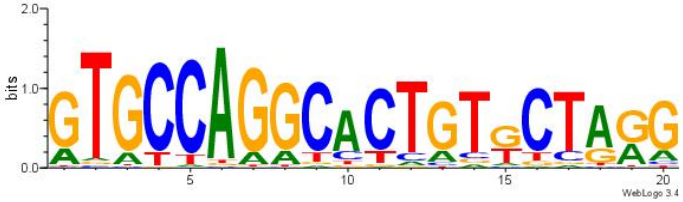

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

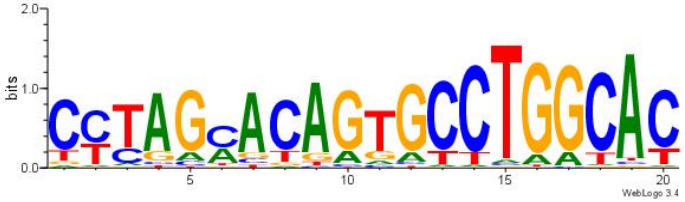

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148762

Alignment:
GCCAATTTCTCCCATTTGGA
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

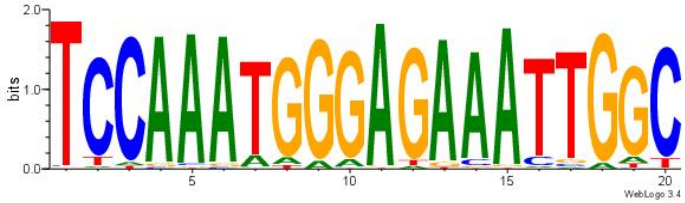

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

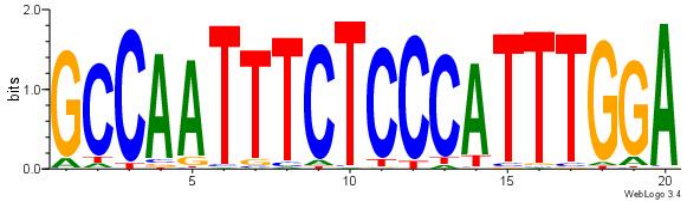

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149885

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

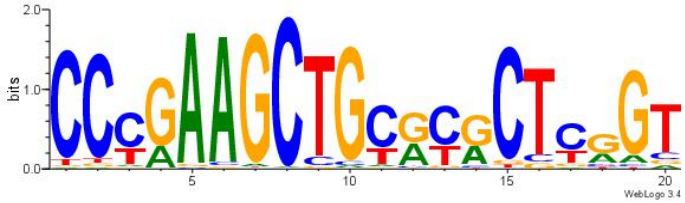

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

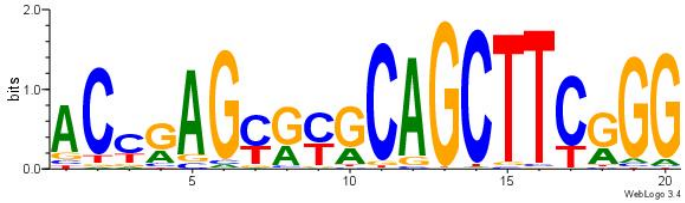

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151793

Alignment:
CCCMKGGCACCCTCAGTCCT
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

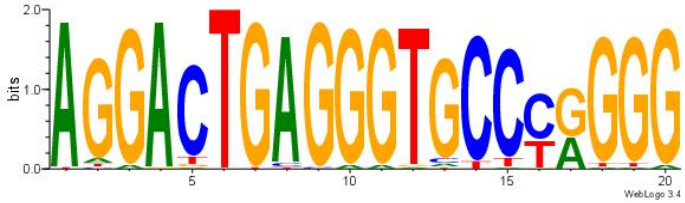

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

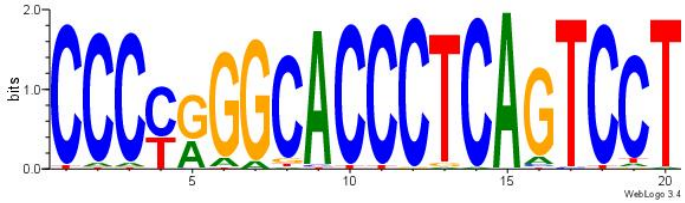

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.151852

Alignment:
CGCGGCGCTTGCGGGCCAGC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

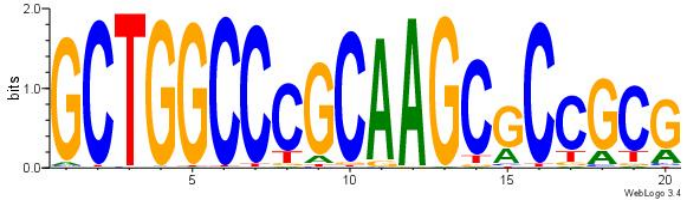

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

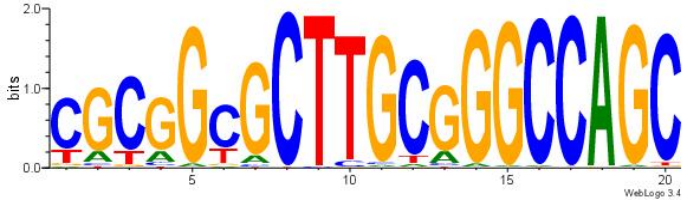

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152467

Alignment:
TACCTGAGACTGGGTAATTT
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

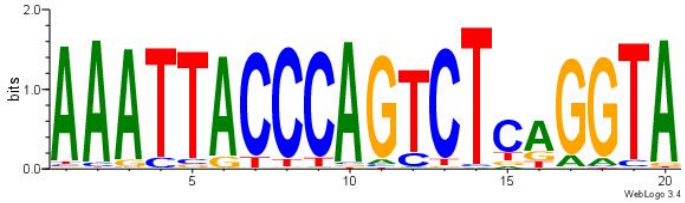

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

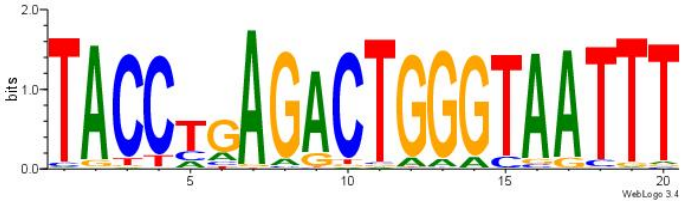

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152902

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

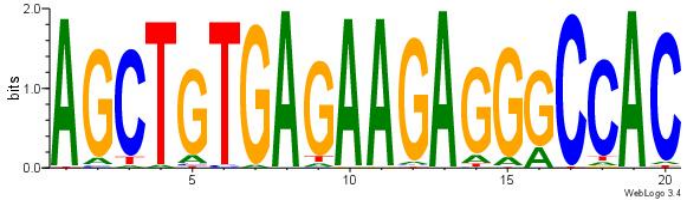

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

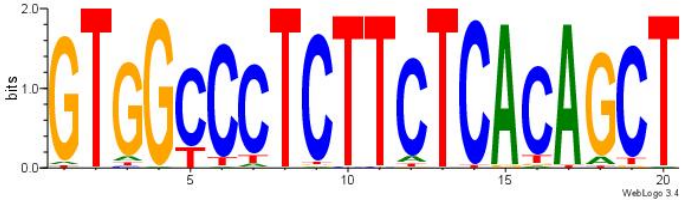

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152937

Alignment:
ATAGGAATGCTTGTGATTTT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

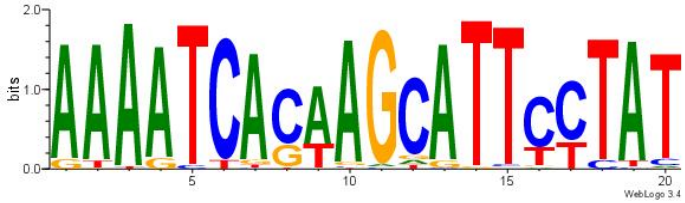

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

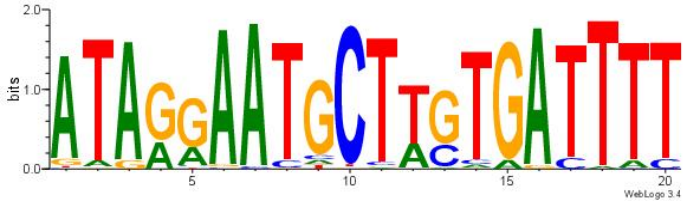

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.15296

Alignment:
GGATTTMKGACTTGCATGGG
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

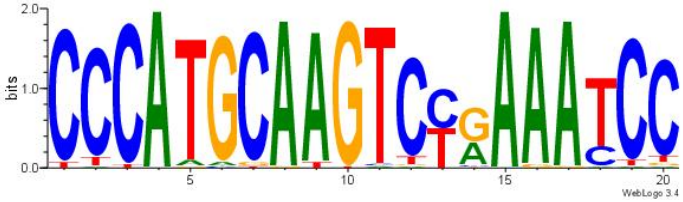

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

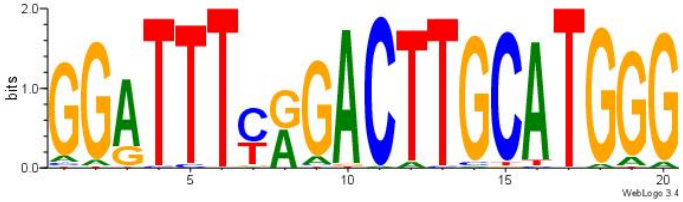

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153148

Alignment:
CTGGGTCCCCCAGCAGTGCC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

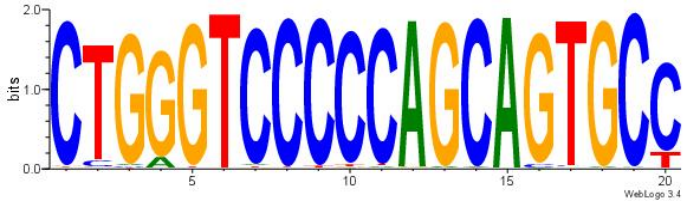

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

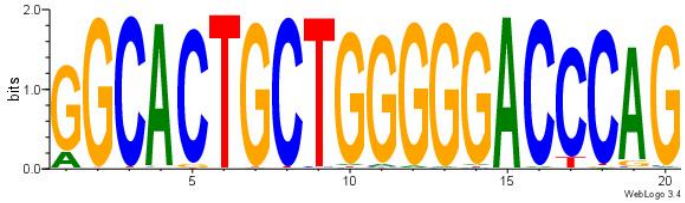

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153314

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

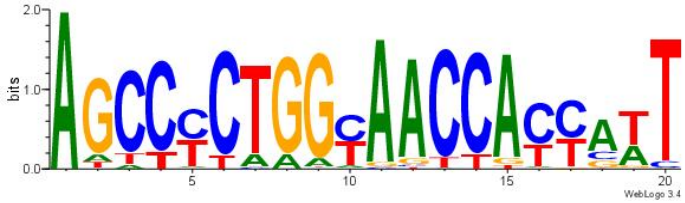

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

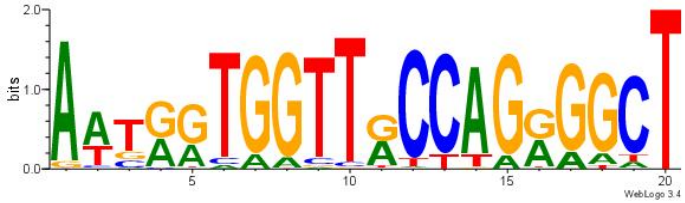

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154231

Alignment:
TWTACCTATGTAACAAACCT
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

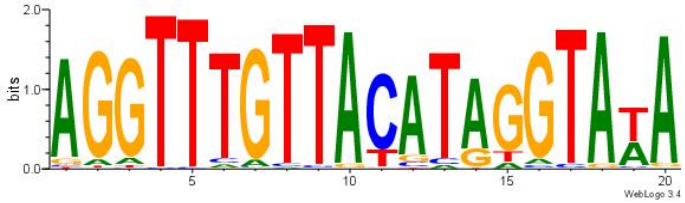

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

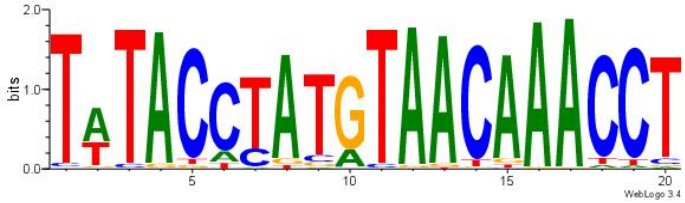

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.154371

Alignment:
GGAGGTGTGGAGGGAGAGGC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

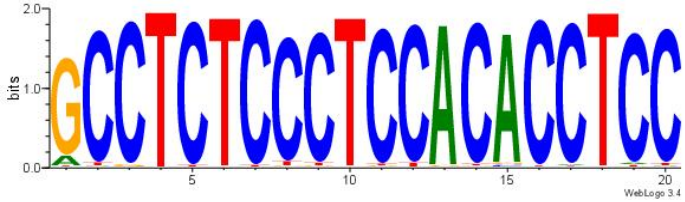

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

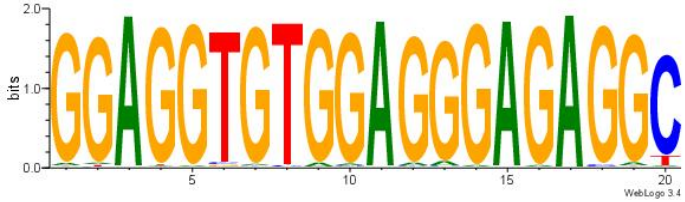

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154915

Alignment:
CACCAGACTCAGGAGCCCAG
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

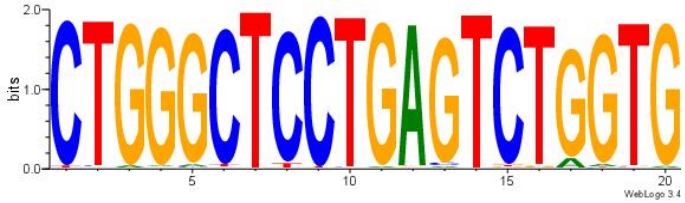

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

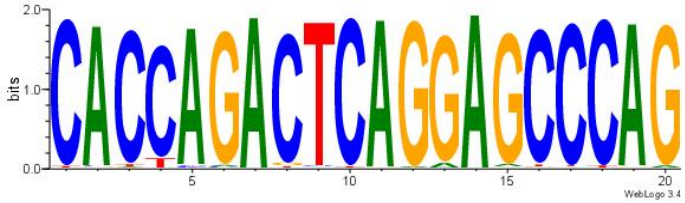

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154988

Alignment:

```
GTTTAACCATTGAGGGCCAG
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

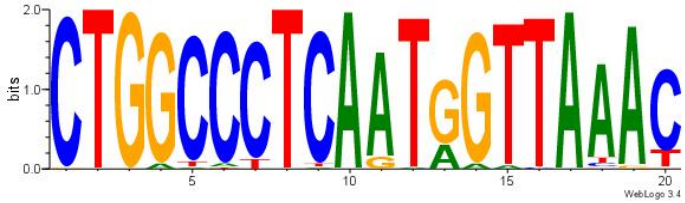

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

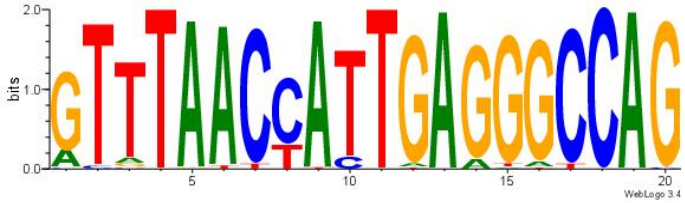

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155238

Alignment:

```
AAGCAGGGCGAGGCATTGCC
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

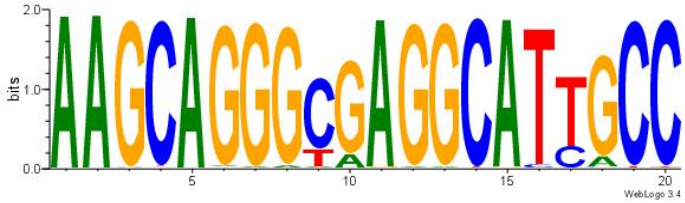

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

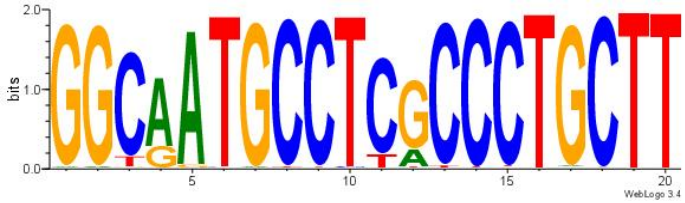

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.158436

Alignment:
ATGATCCAGCAATYCCACTH
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

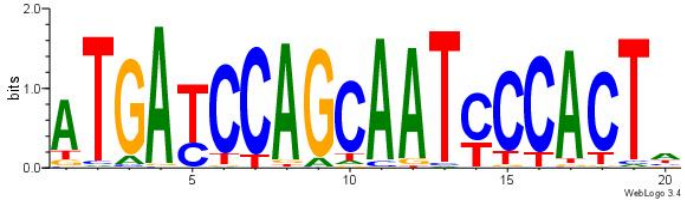

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

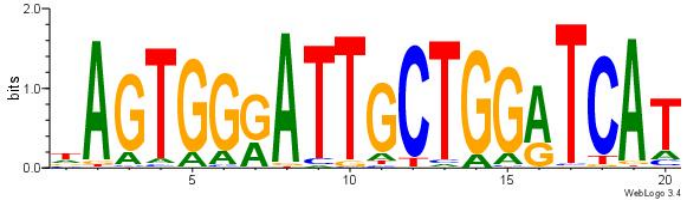

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.158902

Alignment:
GCAAAKGACATGATYTCATT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

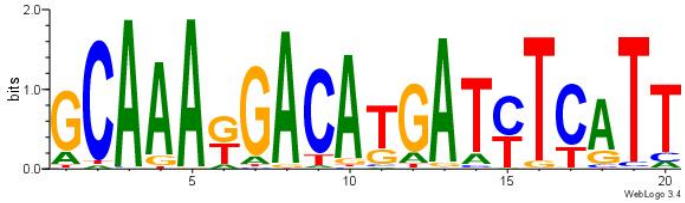

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

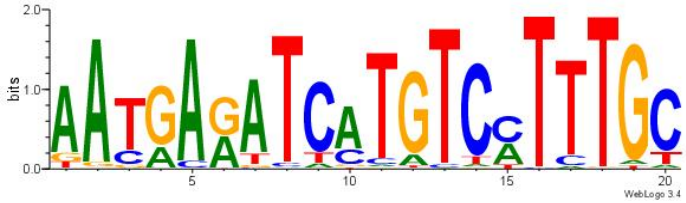

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159136

Alignment:

```
CTTGCCCAAGGTCACACAGC
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

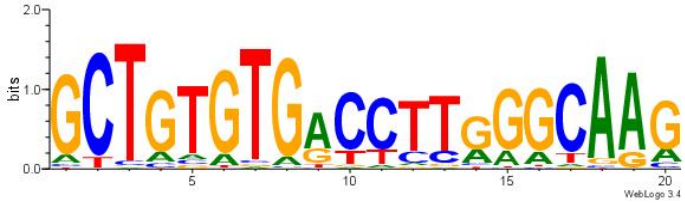

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

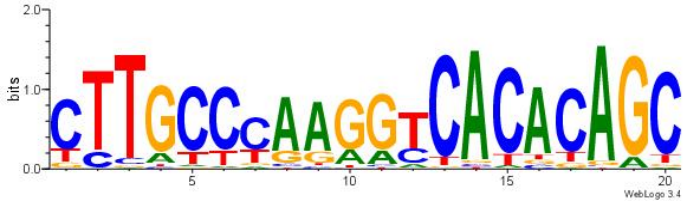

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159364

Alignment:

```
ATGGACAYTTRGGTTGHTTC
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

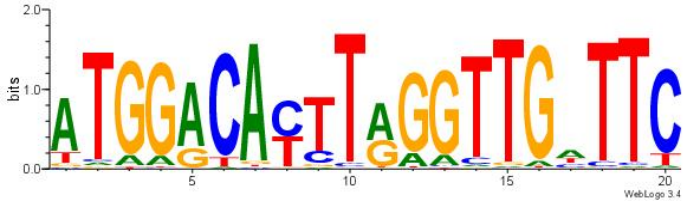

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

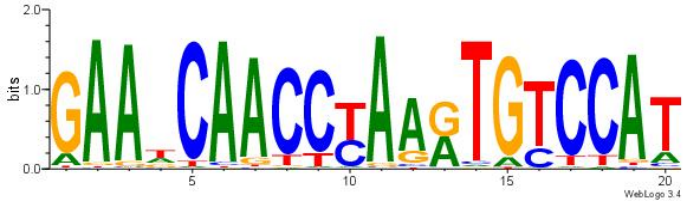

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.159795

Alignment:
ATCRCTTGAGSYCAGGAGKT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

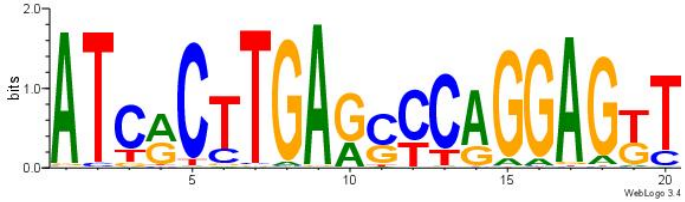

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

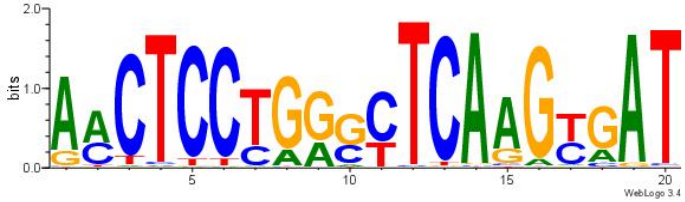

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.161119

Alignment:
GAAACTGCTTTGTGATGTGT
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

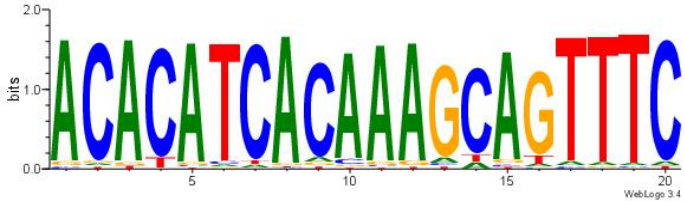

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

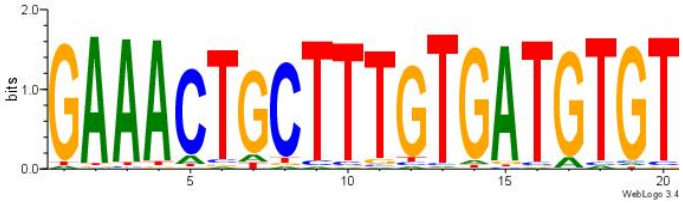

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161536

Alignment:

```
CACCAGGAGATTATATCCCR
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

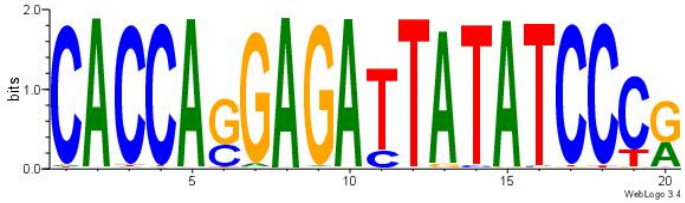

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

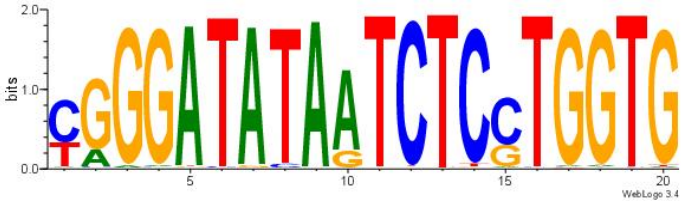

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161774

Alignment:

```
ACTGTCTTCCACCTCCACAT
CTCAGTGTTAATCTCCTGTC
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

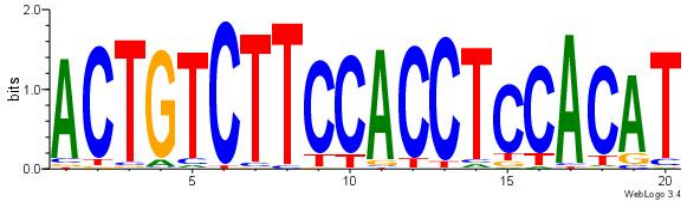

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

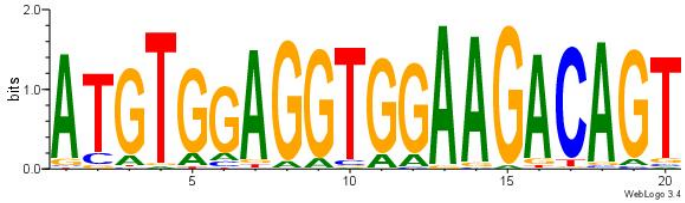

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.162891

Alignment:
ACCCAATWTGTAGTCTTTTA
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

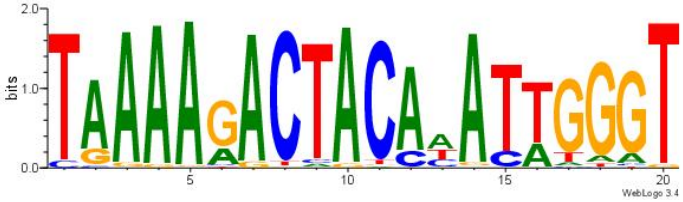

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

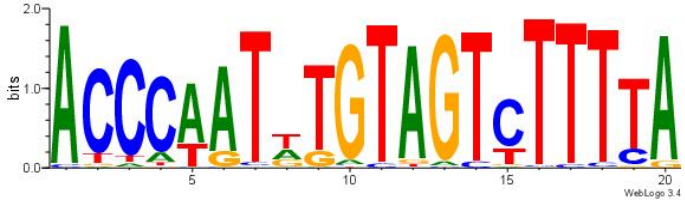

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.163511

Alignment:
GTTATTAATTGGCCTAATTT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

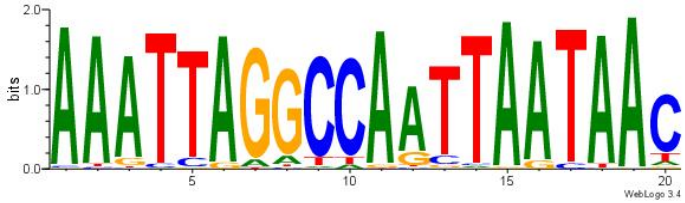

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163848

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

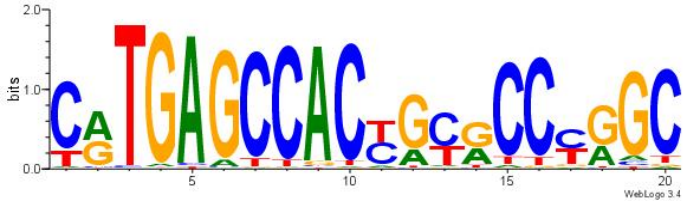

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

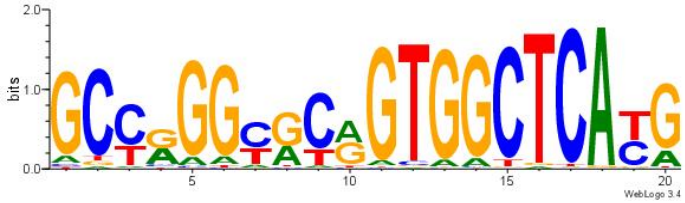

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164168

Alignment:
TCTCTCTCTCTCTCTCTCTC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

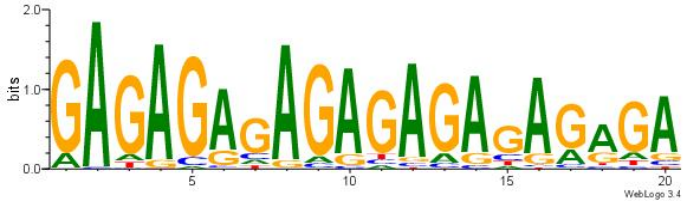

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

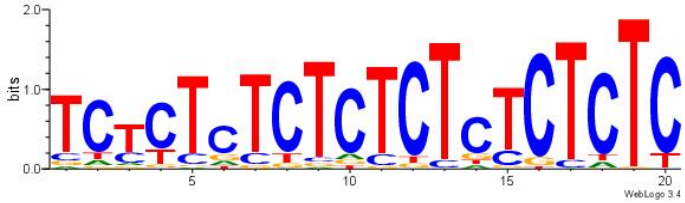

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.164606

Alignment:
CTGGGCRACAGAGYRAGACY
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

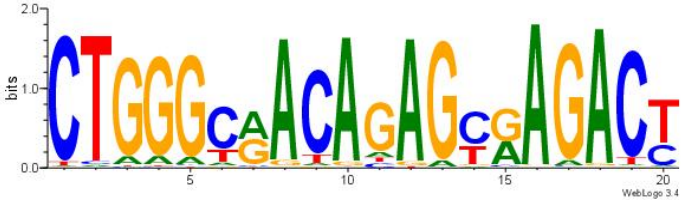

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

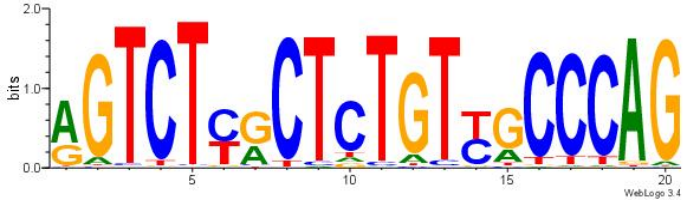

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.164827

Alignment:
AAAGCTGGAGCTATTATCTA
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

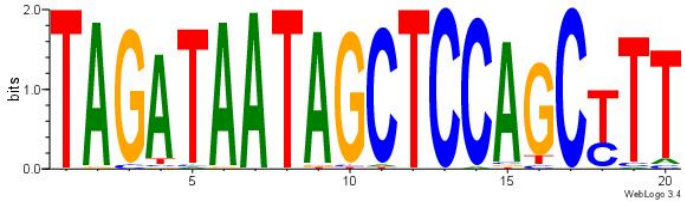

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

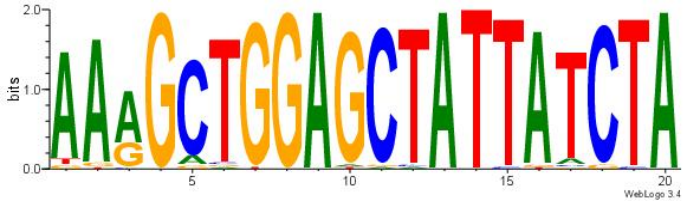

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165767

Alignment:

```
AAGTCCAAGATCAAGGTGYY
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

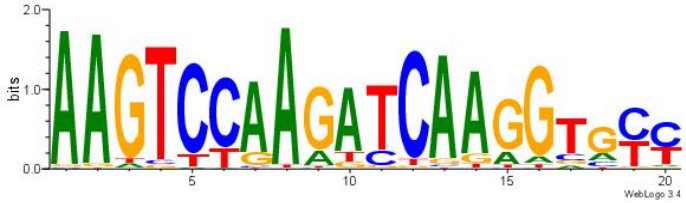

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

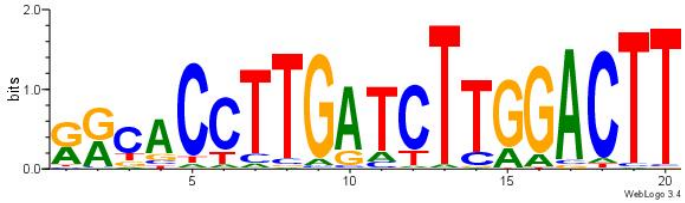

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165957

Alignment:
AGTGACCCGATTTTCCAGGT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

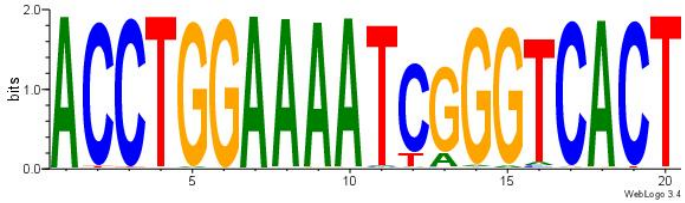

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

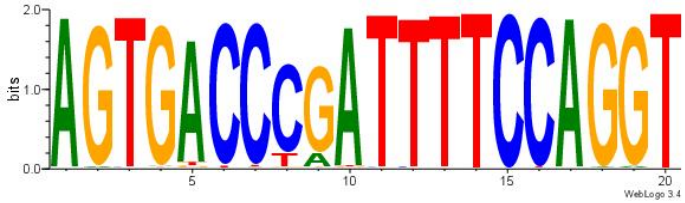

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.166261

Alignment:
TTGGTAGGATCCGTGATGCC
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

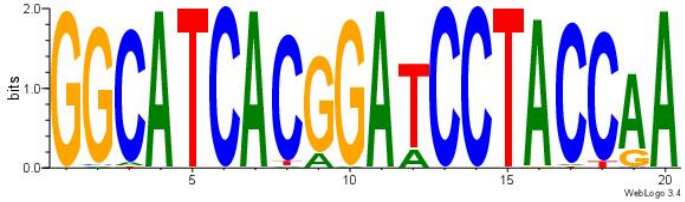

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

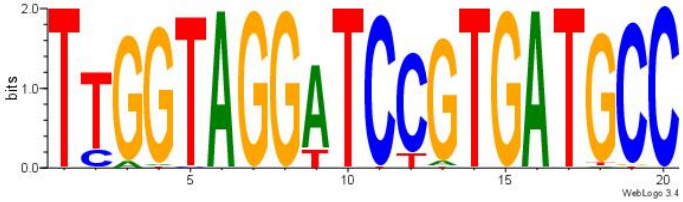

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166894

Alignment:
TCKMGCCACTGCACTCCAGC
GACAGGAGATTAACACTGAG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

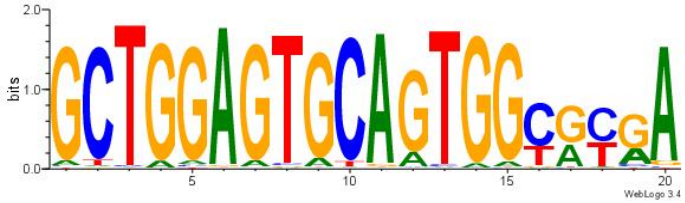

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

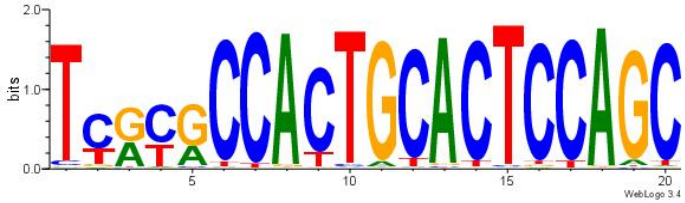

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167285

Alignment:

```
CAGCTACTCKTATACCCTTG
GACAGGAGATTAACACTGAG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

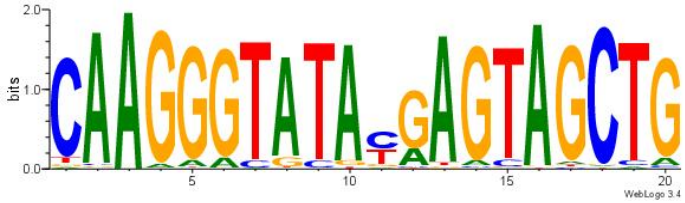

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

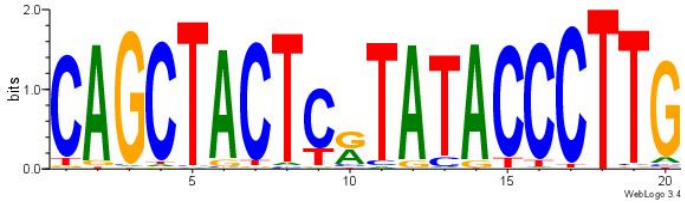

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.169529

Alignment:

GTAACACTCACCGCGARGGT
CTCAGTGTTAATCTCCTGTC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

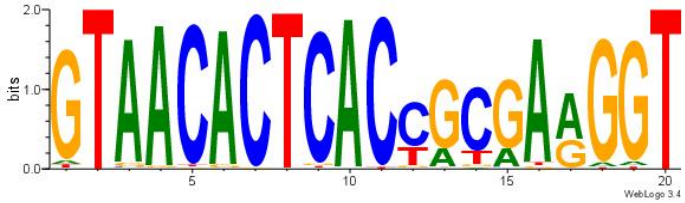

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

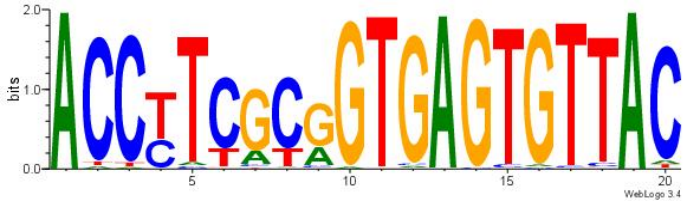

Dataset #: 1 Motif ID: 263 Motif name: Motif 263

Original motif Consensus sequence: CCCAGCTCTGCC

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

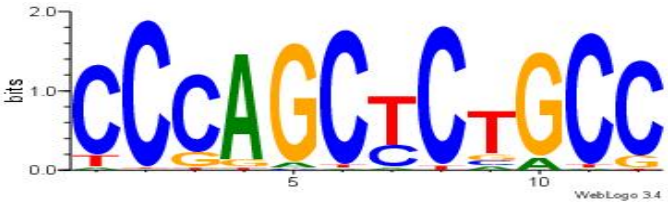

Best Matches for Motif ID 263 (Highest to Lowest)

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0427579

Alignment:

```
GGCACTGCTGGGGGACCCAG
GGCAGAGCTGGG--------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

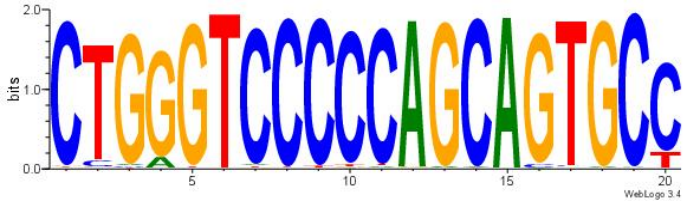

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

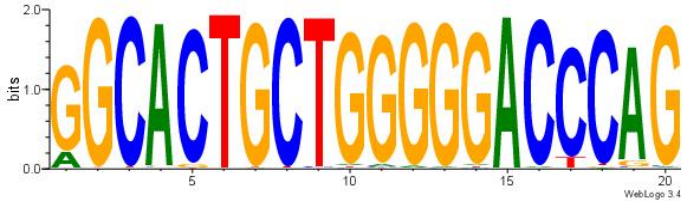

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0507335

Alignment:

```
GCCRGCCCTGCYGGCC
CCCAGCTCTGCC----
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

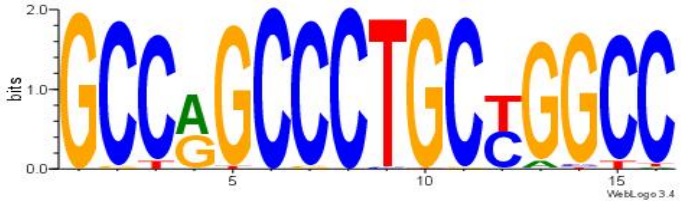

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

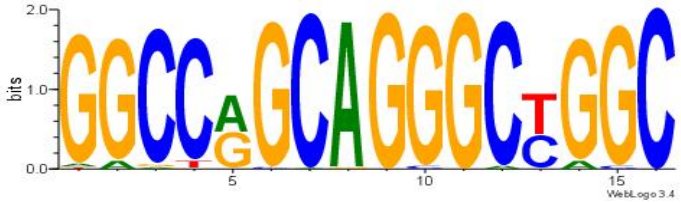

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 12
Similarity score: 0.0634235

Alignment:
CGAGCCCTGCCCCGCGG
----CCCAGCTCTGCC-

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

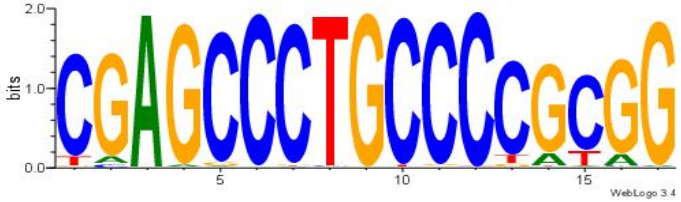

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

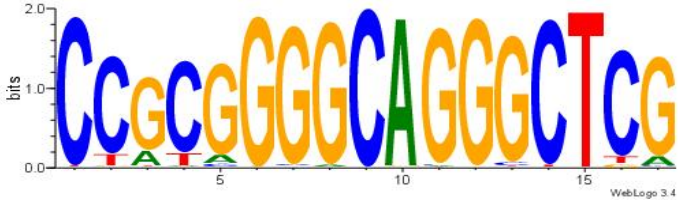

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0664844

Alignment:
CTCCTGCCTCAGCCTCCCRA
--CCCAGCTCTGCC------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

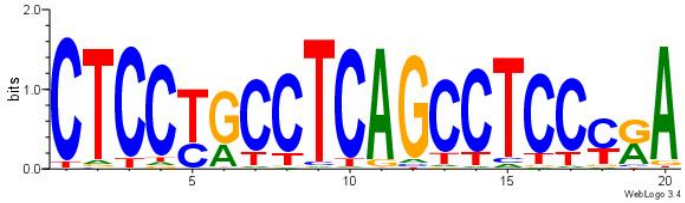

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

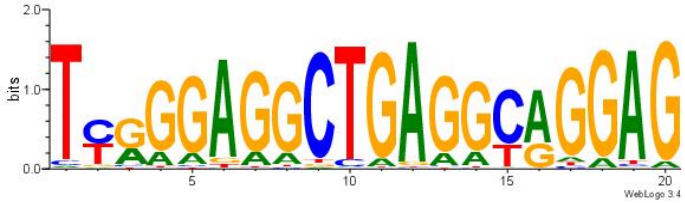

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0690886

Alignment:

```
GGSKGATCTGGCTG
GGCAGAGCTGGG--
```

Original motif Consensus sequence: CAGCCAGATCRSCC

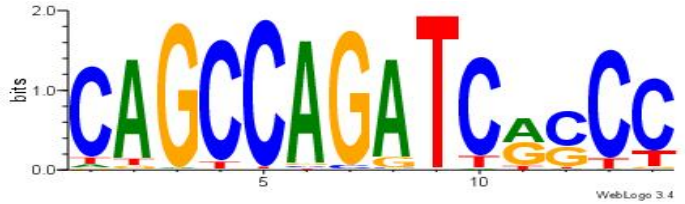

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

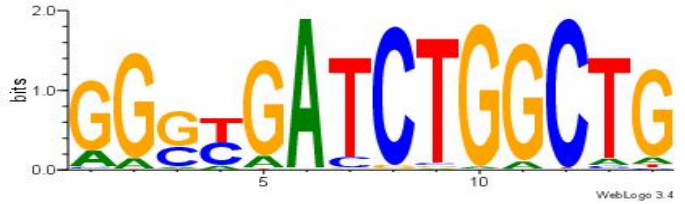

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0692871

Alignment:

```
CTCTGCCCGGCCGC
CCCAGCTCTGCC--
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

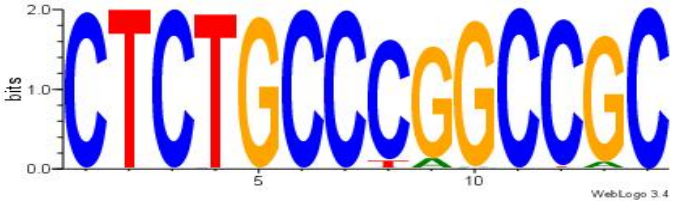

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

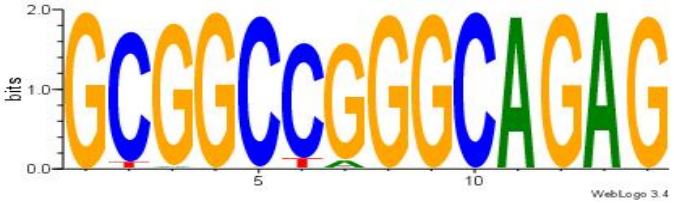

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.0711801

Alignment:
AAGCAGGGCGAGGCATTGCC
-------GGCAGAGCTGGG-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

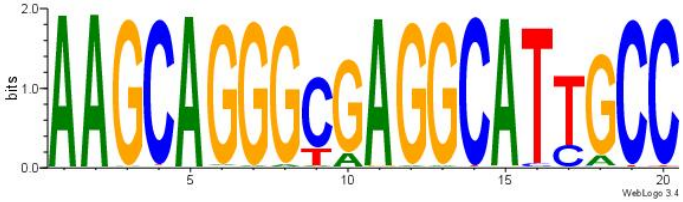

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

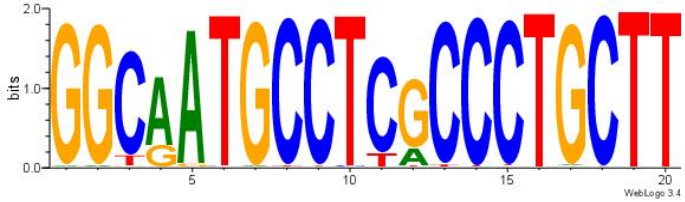

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0712488

Alignment:
AGACCAGCCTGGCCAAC
--CCCAGCTCTGCC---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence:
GTTGGCCAGGCTGGTCT

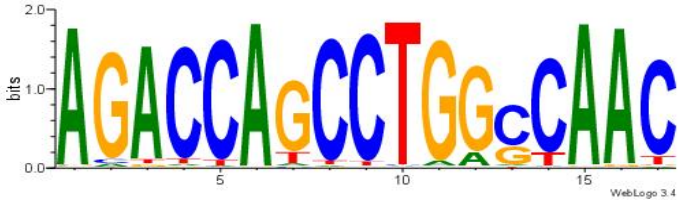

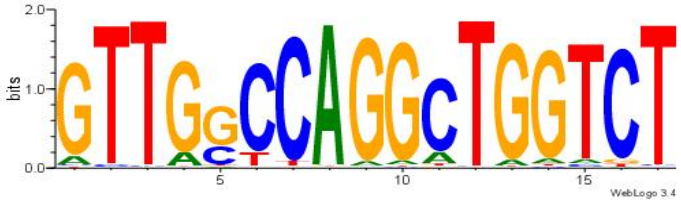

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0715967

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
GGCAGAGCTGGG--------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

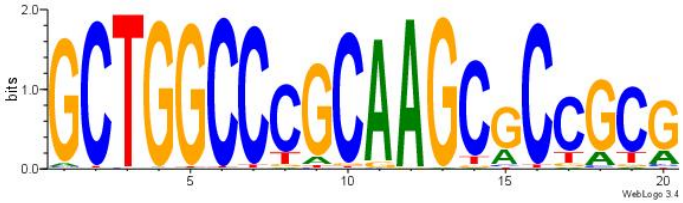

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

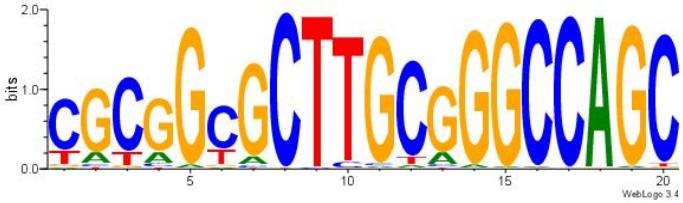

Dataset #:	1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0722193

Alignment:

```
TACACCCTCCGCAGCC
CCCAGCTCTGCC----
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

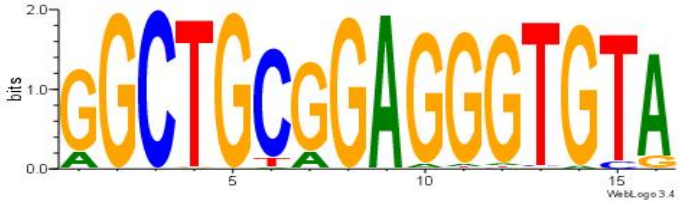

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

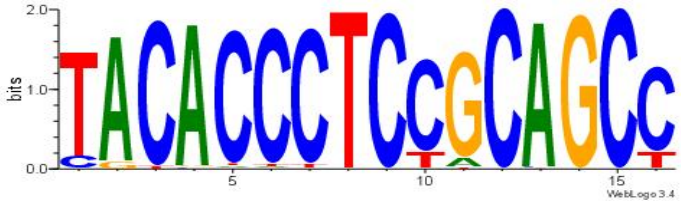

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.0742541

Alignment:
ATGATCCAGCAATYCCACTH
----CCCAGCTCTGCC----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

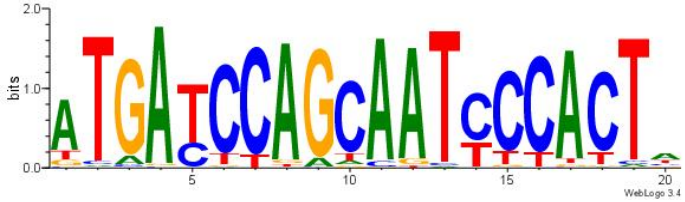

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

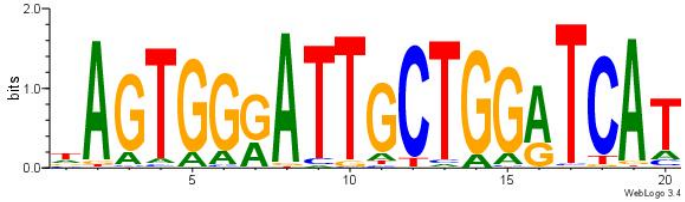

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0744937

Alignment:
ATTAGCYRGGCRTGGTGGC
----GGCAGAGCTGGG---

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

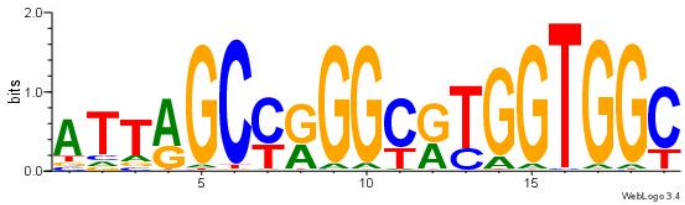

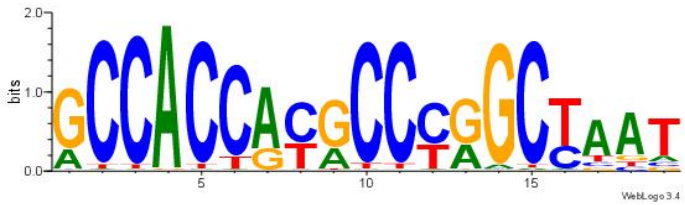

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0749639

Alignment:

```
GACTGGCAGGCAGCTCCACC
--------CCCAGCTCTGCC
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

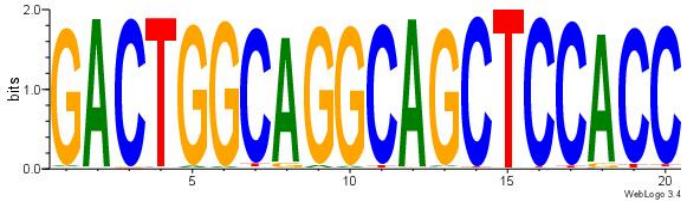

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

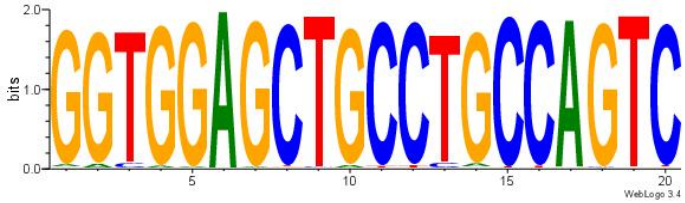

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0764367

Alignment:

```
CGGCGCTGMGCTCGATTTCT
---GGCAGAGCTGGG-----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

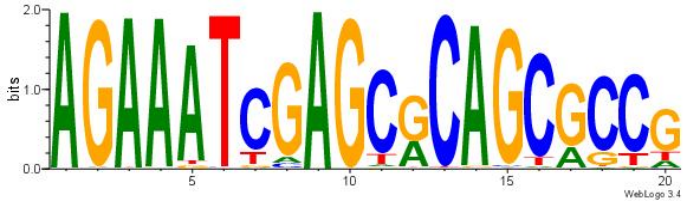

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

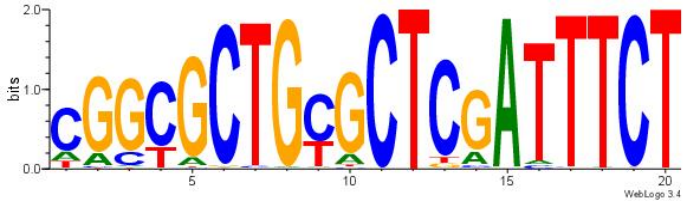

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0781518

Alignment:
GCTCCACCCAGTTCGAGCTT
------CCCAGCTCTGCC--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

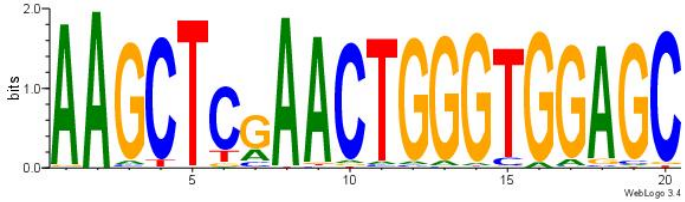

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

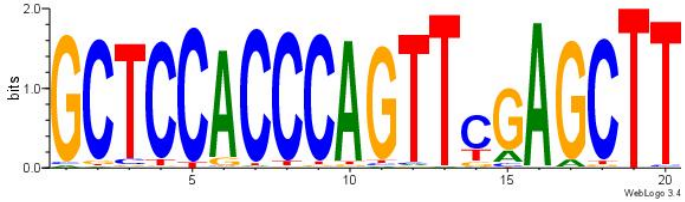

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0794757

Alignment:
TCCAAATGGGAGAAATTGGC
-GGCAGAGCTGGG-------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

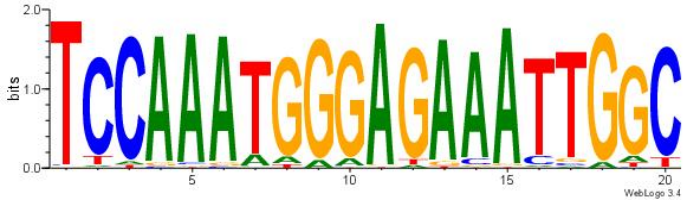

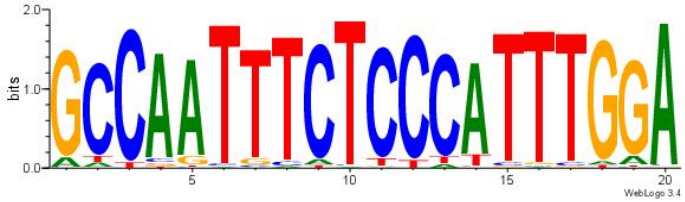

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0817058

Alignment:

```
MCCYGGCWSMGASGSTCCT
----GGCAGAGCTGGG---
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

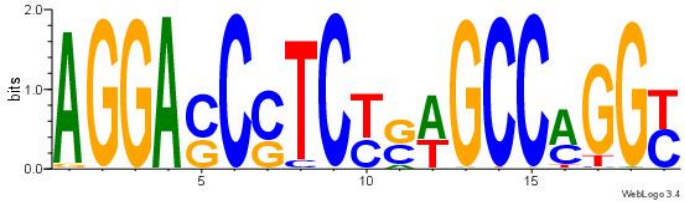

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

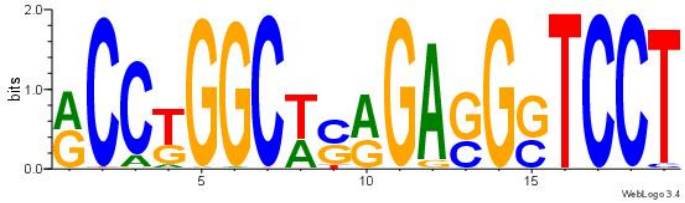

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0831055

Alignment:

```
AGTTCCGGGTGGGCGTGGG
GGCAGAGCTGGG-------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

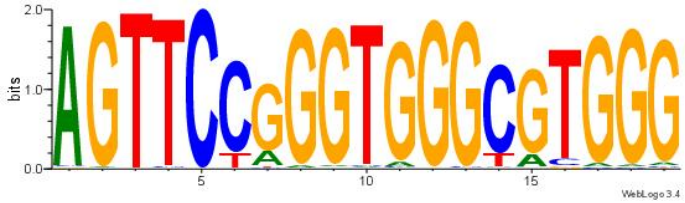

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

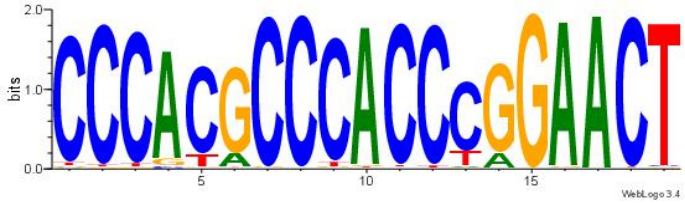

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0831497

Alignment:
CCTTGGCCAGCCCAGAAAG
-----CCCAGCTCTGCC--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

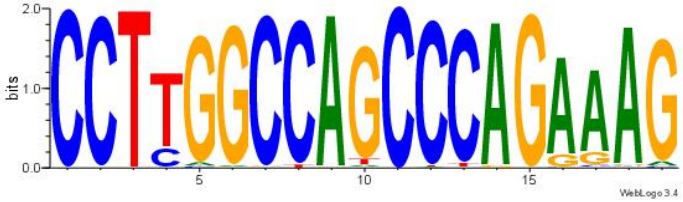

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

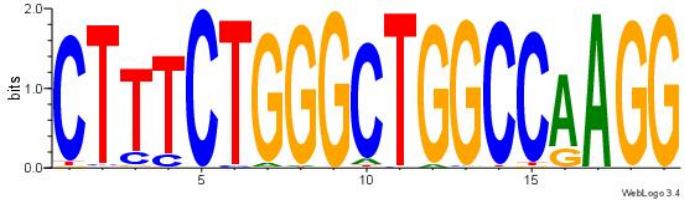

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0834809

Alignment:
GGCTGAGGAGTGCG
GGCAGAGCTGGG--

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

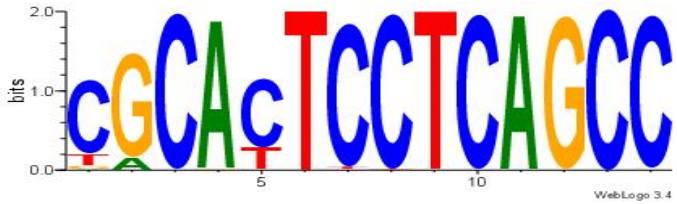

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0851714

Alignment:

```
CTCCTGCCTCAGCY
--CCCAGCTCTGCC
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

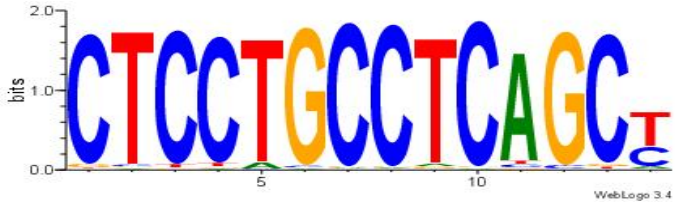

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

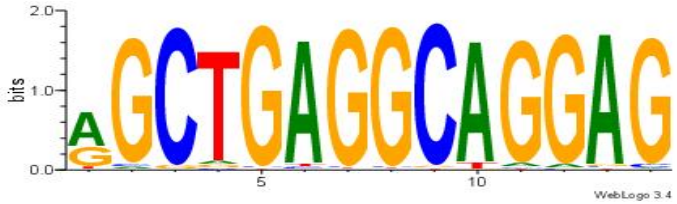

Dataset #:	1
Motif ID:	88

Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0855029

Alignment:

```
TGCAGCCCCGGT
GGCAGAGCTGGG
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

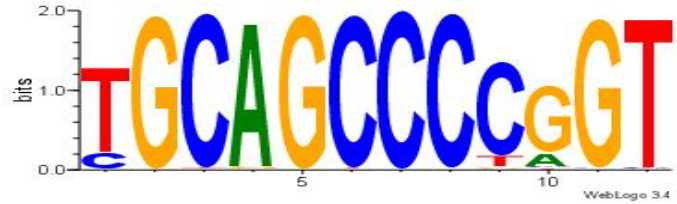

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0858374

Alignment:
GGGRSCACAGGAGCD
GGCAGAGCTGGG---

Original motif Consensus sequence: HGCTCCTGTGSKCCC

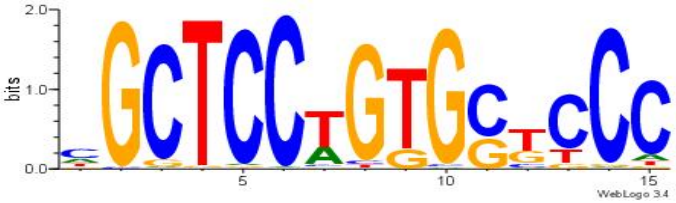

Reverse complement motif Consensus sequence:
GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.085862

Alignment:
CGTCGCTCACGCTGGGAGCT
----GGCAGAGCTGGG----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

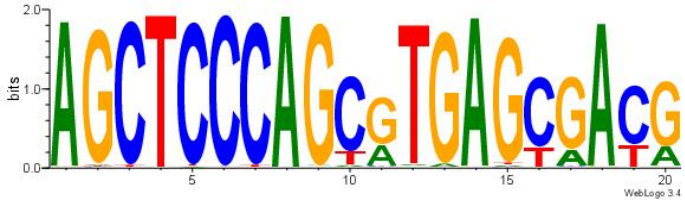

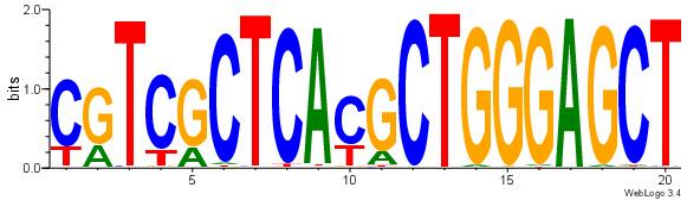

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.086672

Alignment:

```
GCGCACGGCGCGG
GGCAGAGCTGGG-
```

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

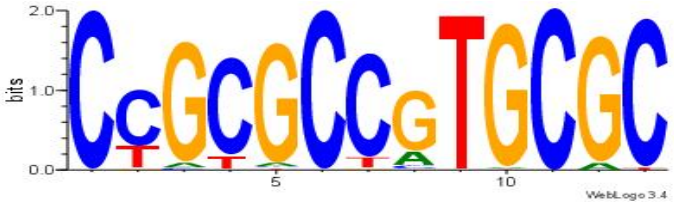

Dataset #:	1
Motif ID:	76

Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0866981

Alignment:

```
GTGCCAGGCACTGTKCTARG
---CCCAGCTCTGCC-----
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

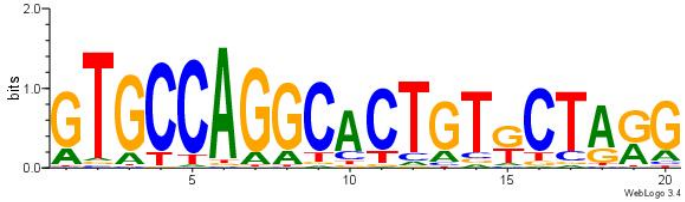

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

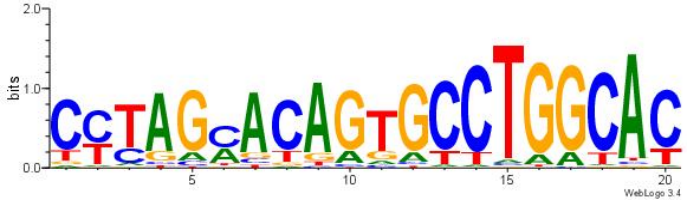

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0869282

Alignment:
ACTCAGCCCRCCTGCACCC
-CCCAGCTCTGCC------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

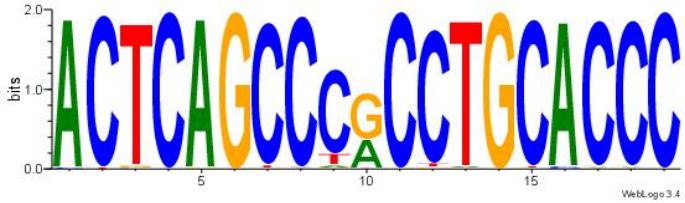

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

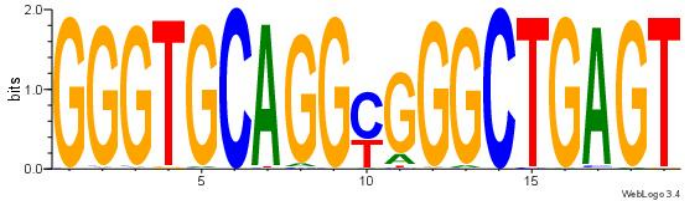

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0870231

Alignment:
AGGAGRCMCTCTGCCTGGC
----CCCAGCTCTGCC---

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

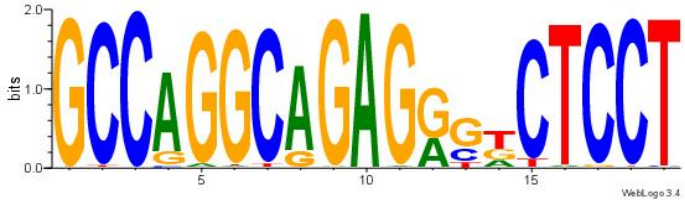

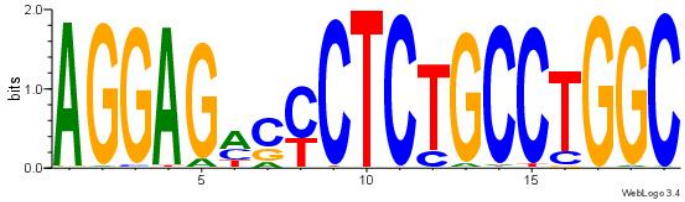

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0873293

Alignment:

```
CGCCCGGCCAGCCGC
-CCCAGCTCTGCC--
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

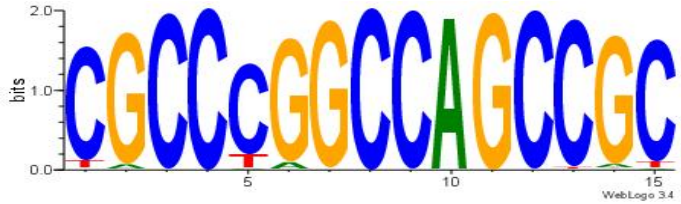

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

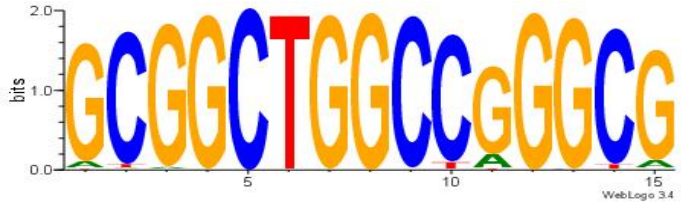

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0875851

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-CCCAGCTCTGCC-------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

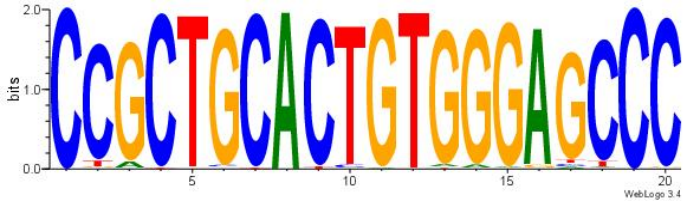

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

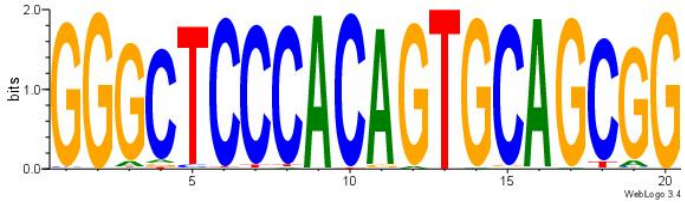

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12

Similarity score: 0.0876331

Alignment:
GAGGAGGRGGAGGDGGV
GGCAGAGCTGGG-----

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

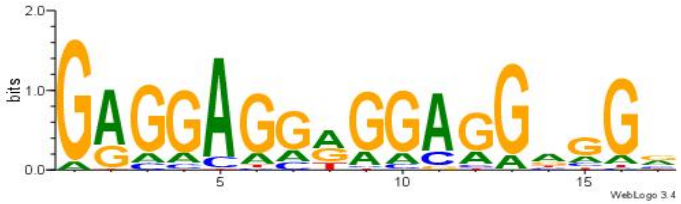

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

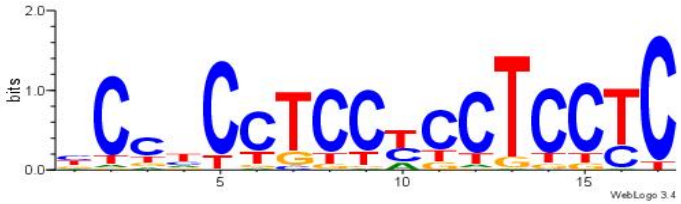

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0878206

Alignment:
GAATCCTGGGACAGCCTGT
----CCCAGCTCTGCC---

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

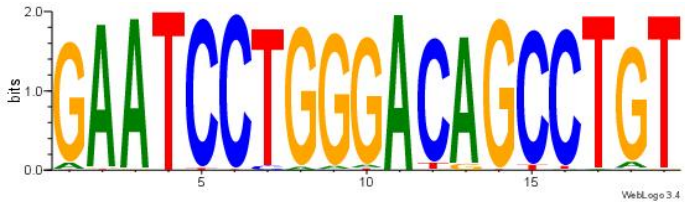

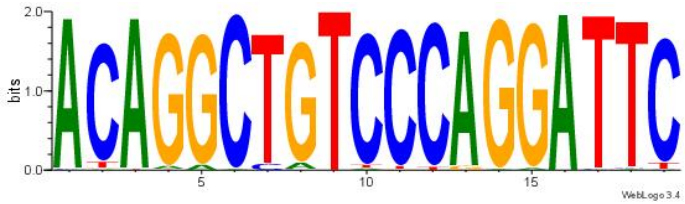

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0880969

Alignment:

```
GTAGACKGGAGCTGTTCCT
-CCCAGCTCTGCC------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

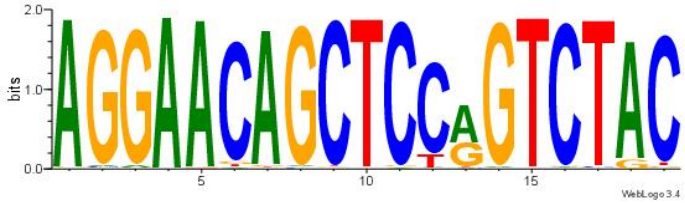

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

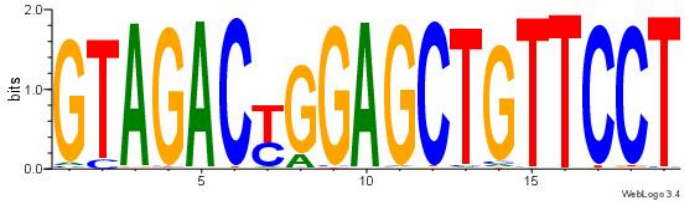

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0883086

Alignment:

```
CCACCACAGCTCAAGGAGGC
----CCCAGCTCTGCC----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

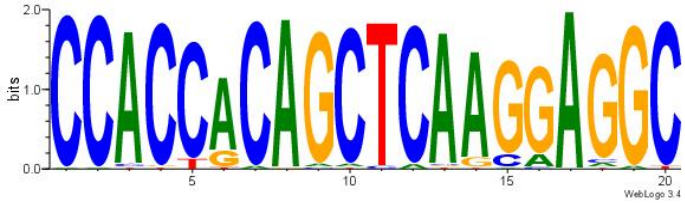

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

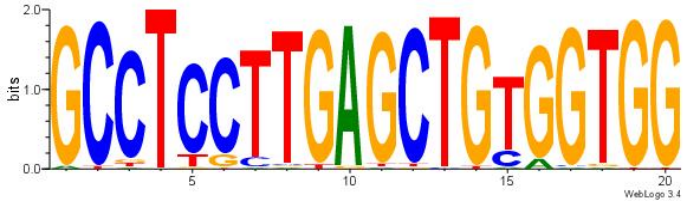

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0890736

Alignment:
ACTGTCTTCCACCTCCACAT
-------CCCAGCTCTGCC-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

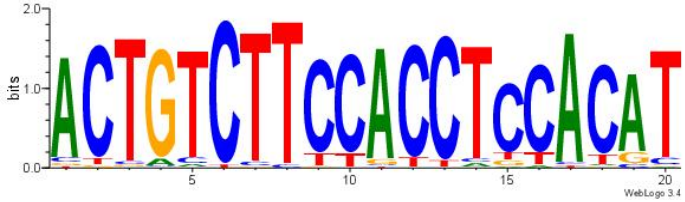

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

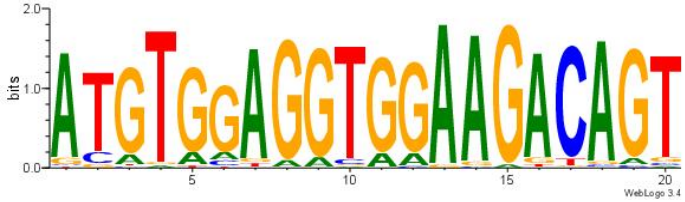

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0902407

Alignment:
TGGCTTCACCCAGTGGATCC
CCCAGCTCTGCC--------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

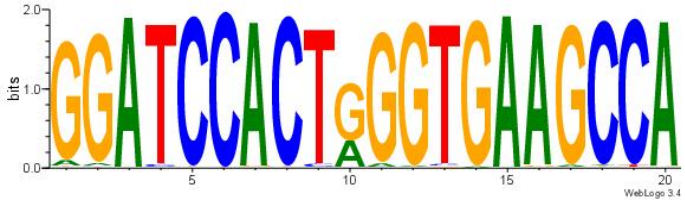

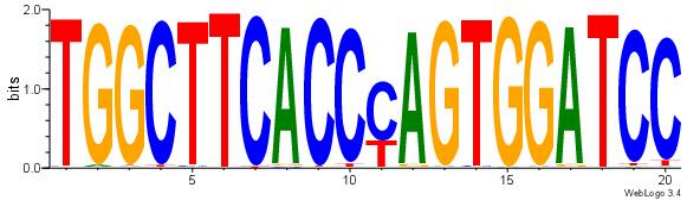

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0911722

Alignment:

```
GAAAAGCGCAGTATTMGGG
-GGCAGAGCTGGG------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

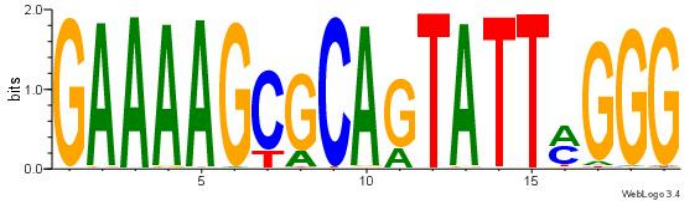

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

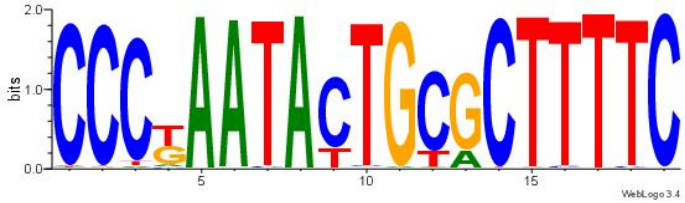

Dataset #: 1

Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0916527

Alignment:

GCAGGAGGTGAG

GGCAGAGCTGGG

Original motif Consensus sequence: CTCACCTCCTGC

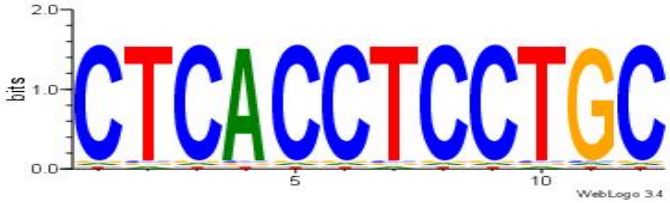

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

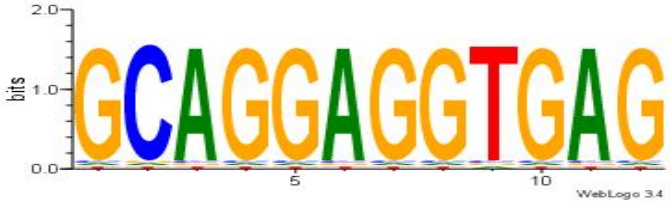

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0918366

Alignment:
CCCMKGGCACCCTCAGTCCT
CCCAGCTCTGCC--------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

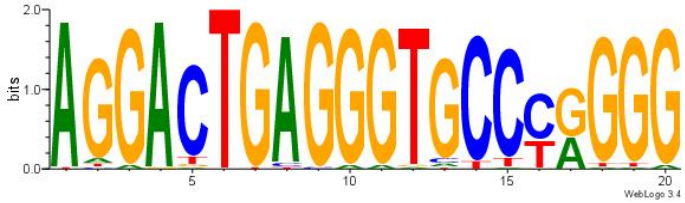

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

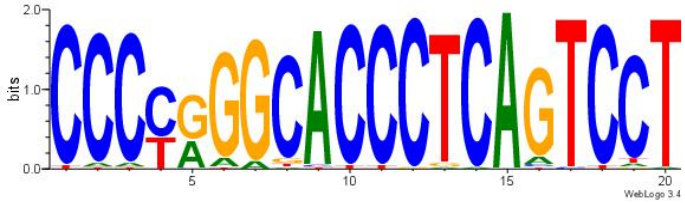

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0920631

Alignment:
GGGAGGAAGGGGACAC
----GGCAGAGCTGGG

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence:
GTGTCCCCTTCCTCCC

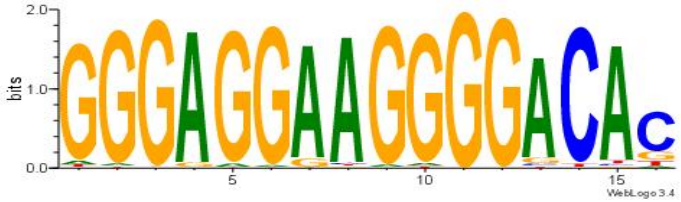

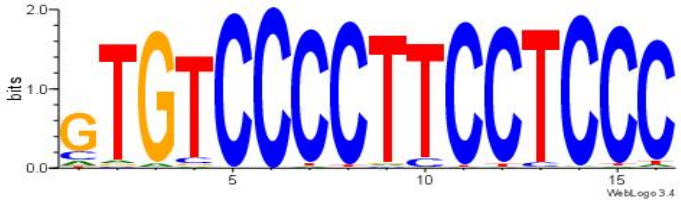

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0922583

Alignment:

```
KGGGCDGAGGGGCTCCT
--GGCAGAGCTGGG---
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

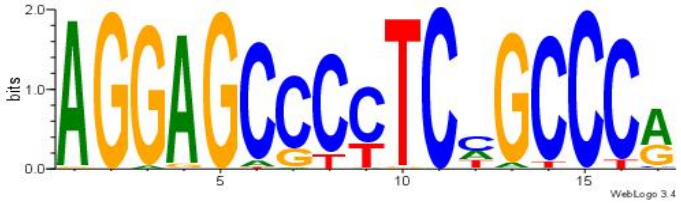

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1

Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0924181

Alignment:

```
TTGGAGGTTCTAGCAGGG
------GGCAGAGCTGGG
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

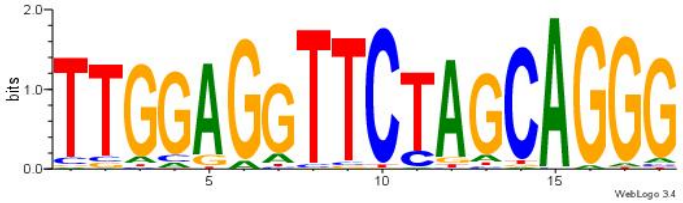

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0924585

Alignment:
KCCGGGCCTTAGCTGCCTTC
---CCCAGCTCTGCC-----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

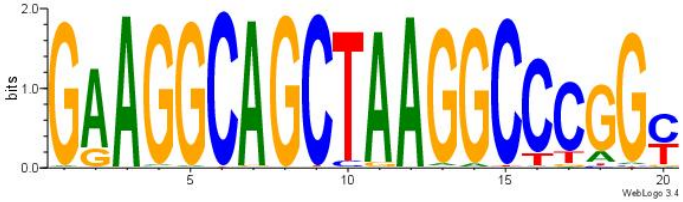

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

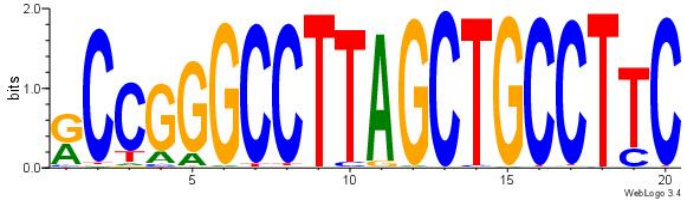

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0926144

Alignment:
AGGAGCGCCTCTKCCCGGC
---CCCAGCTCTGCC----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

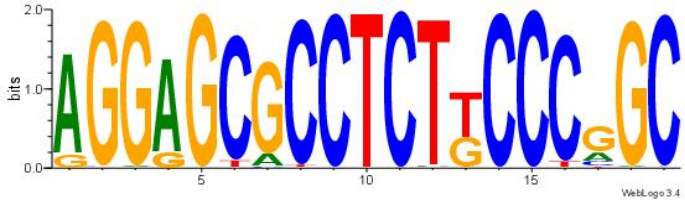

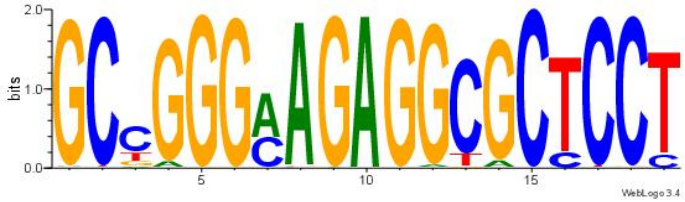

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0934781

Alignment:

```
CCTGCCATTGCYSAGGCTTG
CCCAGCTCTGCC--------
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

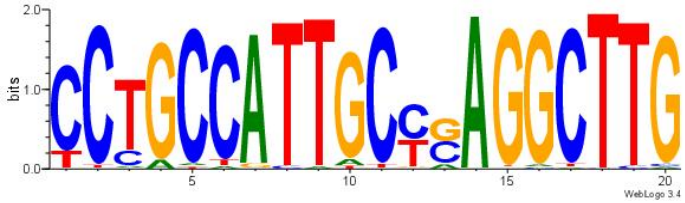

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

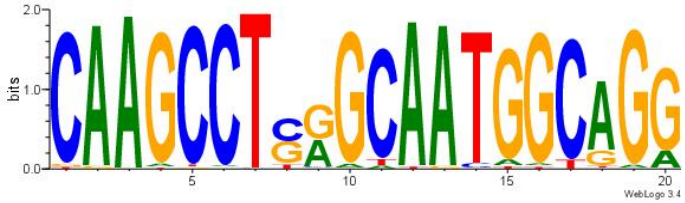

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0938157

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CCCAGCTCTGCC--------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

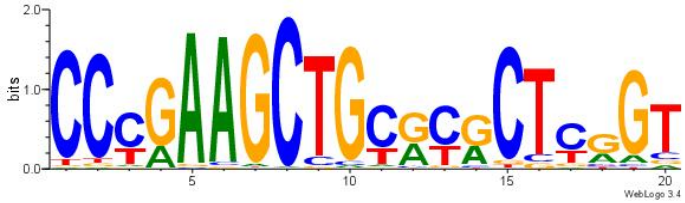

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

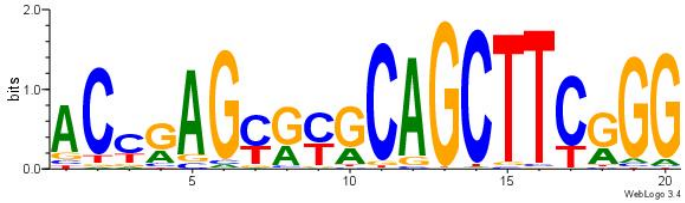

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0939014

Alignment:
GACATGAGCTGGCGCTTG
-GGCAGAGCTGGG-----

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

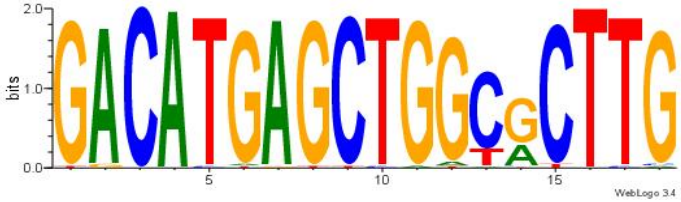

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

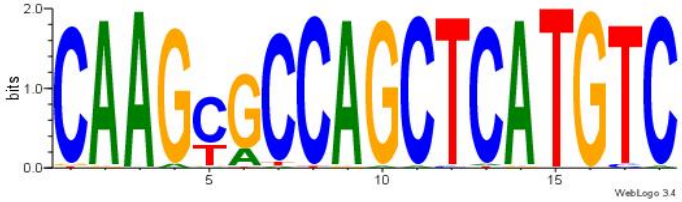

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0940175

Alignment:
ACCCYGTCTGGGAGGTG
-----GGCAGAGCTGGG

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

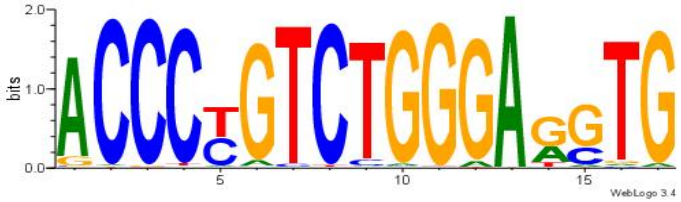

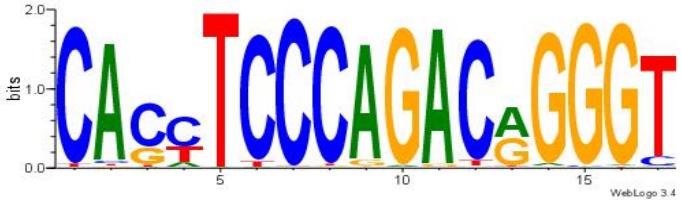

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0940981

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----CCCAGCTCTGCC---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

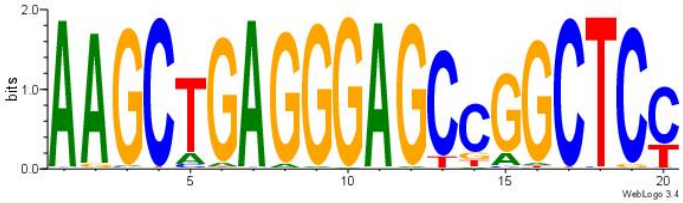

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

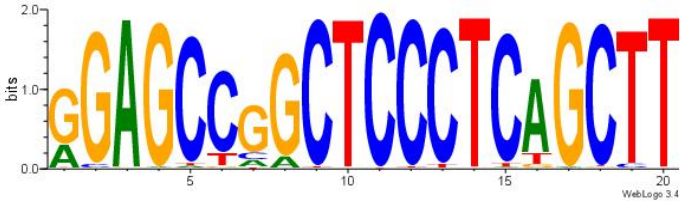

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0945901

Alignment:

```
AATCAACCCTGGYRATCAAT
-CCCAGCTCTGCC-------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

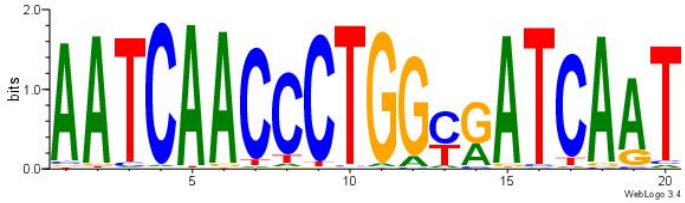

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

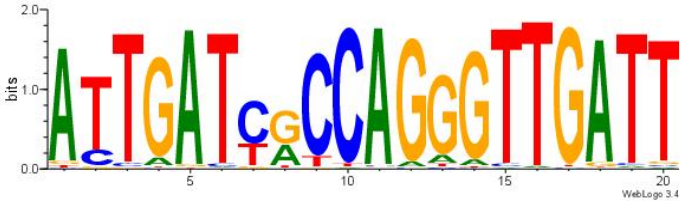

Dataset #: 1 Motif ID: 264 Motif name: Motif 264

Original motif Consensus sequence: CCAAGGTCACA

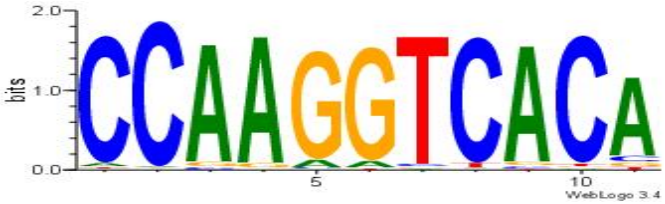

Reverse complement motif Consensus sequence: TGTGACCTTGG

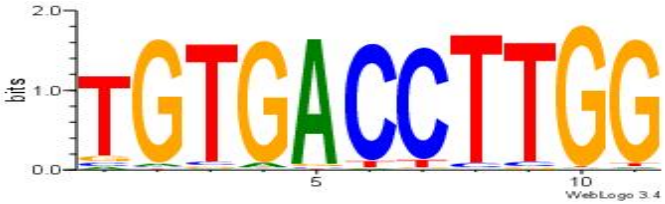

Best Matches for Motif ID 264 (Highest to Lowest)

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0343671

Alignment:

```
CTTGCCCAAGGTCACACAGC
----CCAAGGTCACA-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

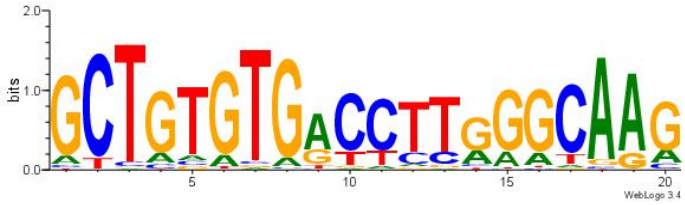

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

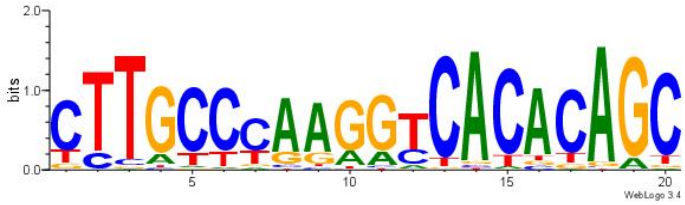

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0609262

Alignment:

```
AACCCTATTGTGAACTGYG
TGTGACCTTGG--------
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

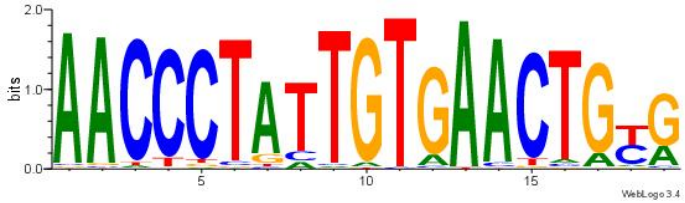

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

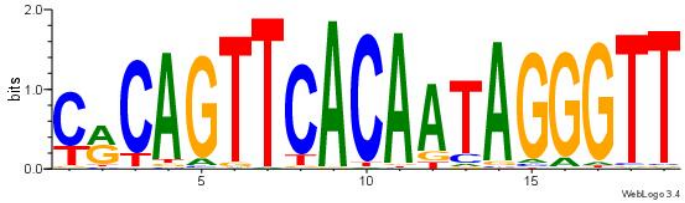

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0681999

Alignment:

```
AAGTCCAAGATCAAGGTGYY
----CCAAGGTCACA-----
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

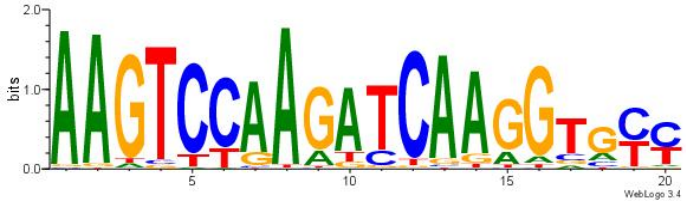

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

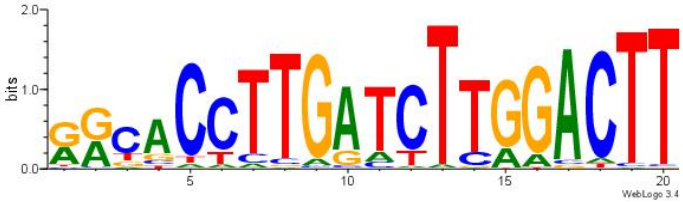

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.069002

Alignment:

```
TWTACCTATGTAACAAACCT
-----CCAAGGTCACA----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

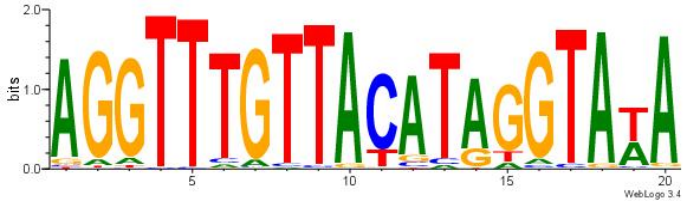

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

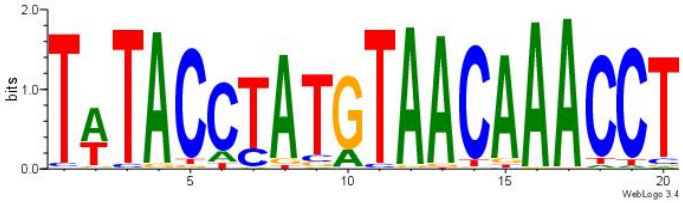

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0740266

Alignment:

```
CTGAGGACCTGAGGTCRTA
--------CCAAGGTCACA
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

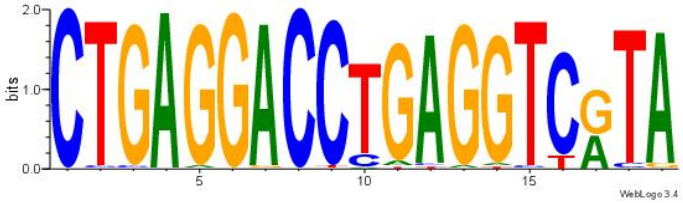

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

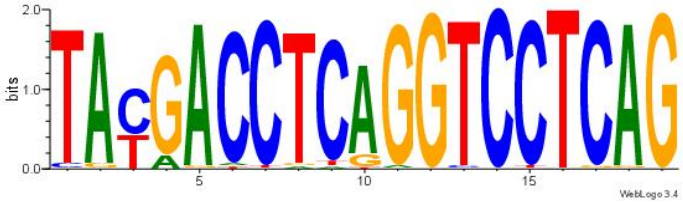

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0755013

Alignment:
GACCAMGAACCCA
--CCAAGGTCACA

Original motif Consensus sequence: GACCAMGAACCCA

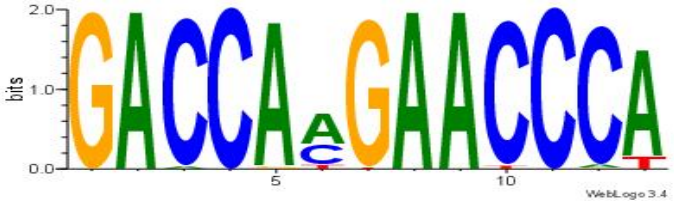

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

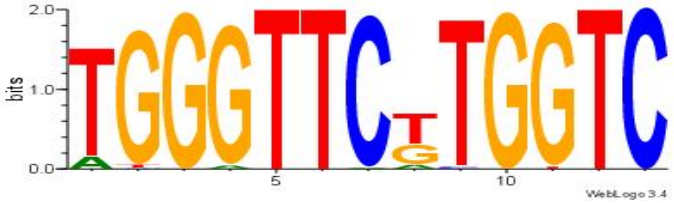

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0799182

Alignment:
CTCRAATGTCCCTT
-CCAAGGTCACA--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

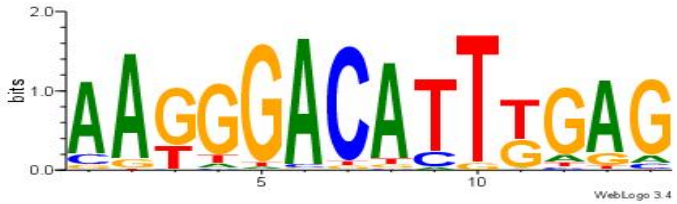

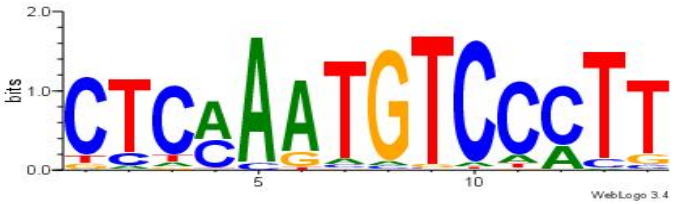

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0803592

Alignment:

```
CCAAGACYCCAGAC
CCAAGGTCACA---
```

Original motif Consensus sequence: CCAAGACYCCAGAC

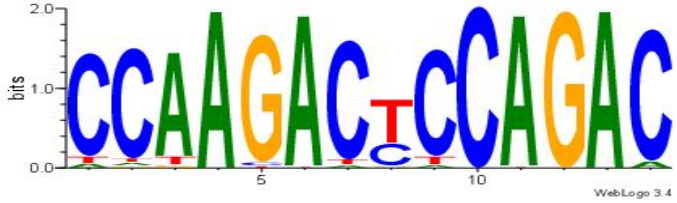

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

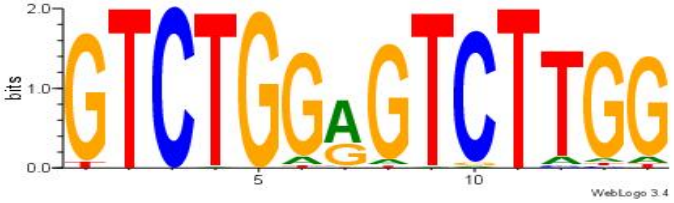

Dataset #:	1
Motif ID:	60

Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0816296

Alignment:

```
GATCACGAGGTCAGGAG
----CCAAGGTCACA--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

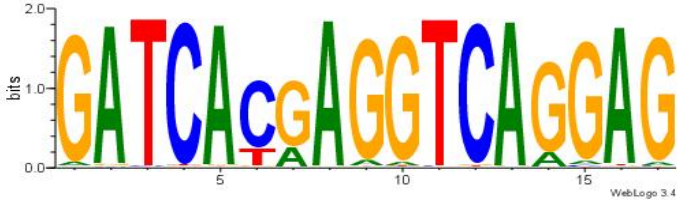

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

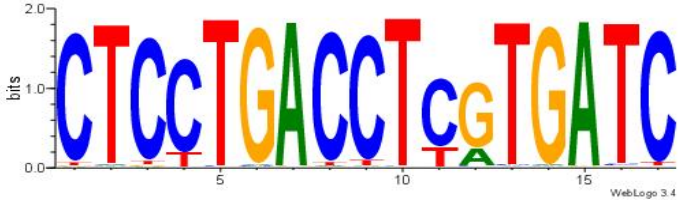

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0827514

Alignment:
CCCMKGGCACCCTCAGTCCT
CCAAGGTCACA---------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

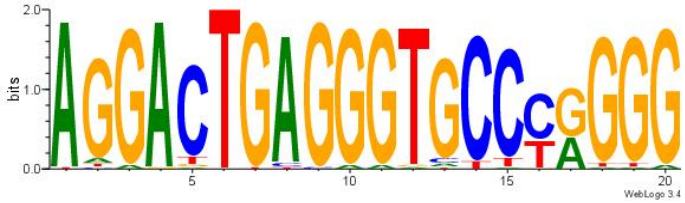

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

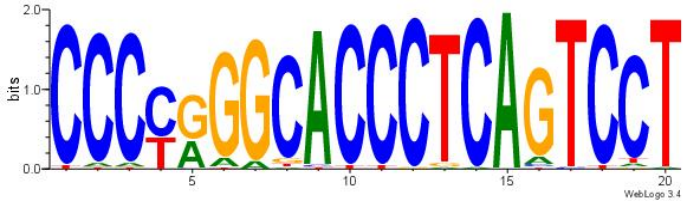

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0828432

Alignment:
KGCAACCTAGATCCCT
-----CCAAGGTCACA

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence:
KGCAACCTAGATCCCT

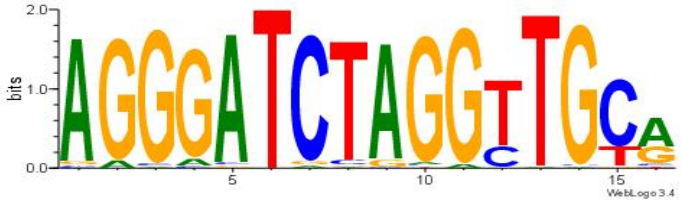

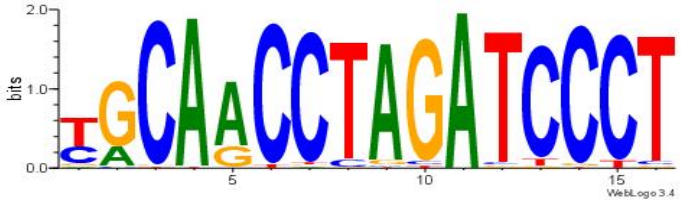

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0829072

Alignment:

```
GCCAATTTCTCCCATTTGGA
--------CCAAGGTCACA-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

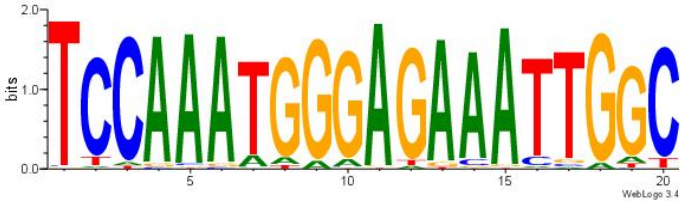

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

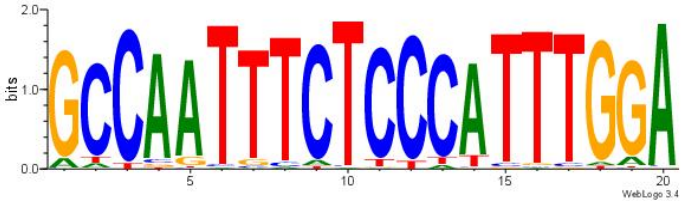

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0829573

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-TGTGACCTTGG-------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

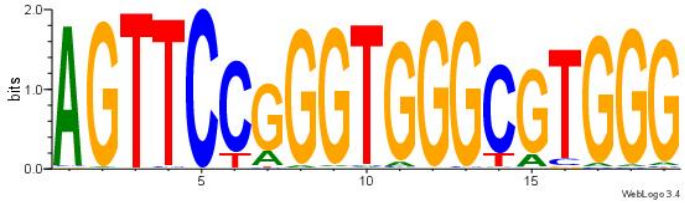

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

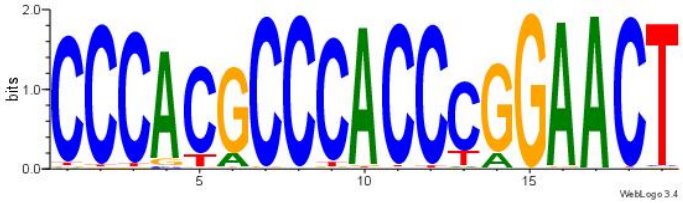

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0843413

Alignment:
ACTTTGGACTGTGGACTTTT
---------TGTGACCTTGG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

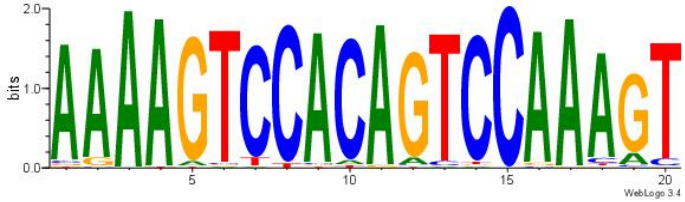

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

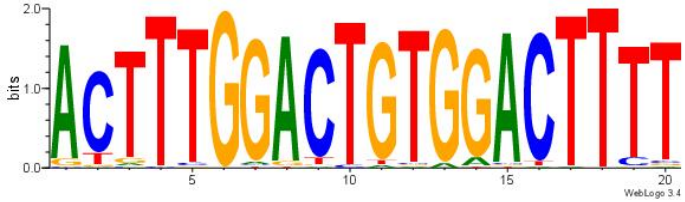

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0845078

Alignment:
TTGTCCCACTGGAAGGTCTT
-TGTGACCTTGG--------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

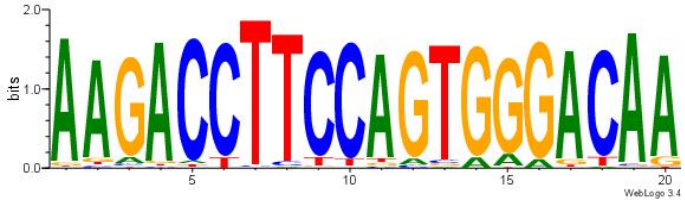

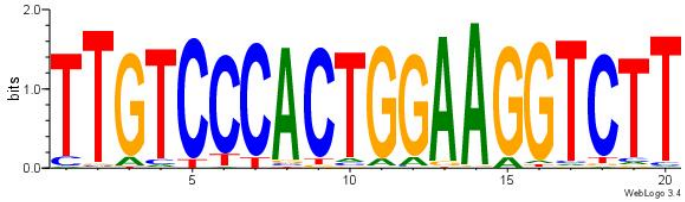

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0861234

Alignment:

```
TGATACCCAGGCAAACAG
TGTGACCTTGG-------
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

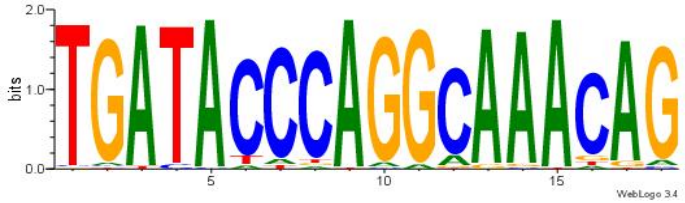

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

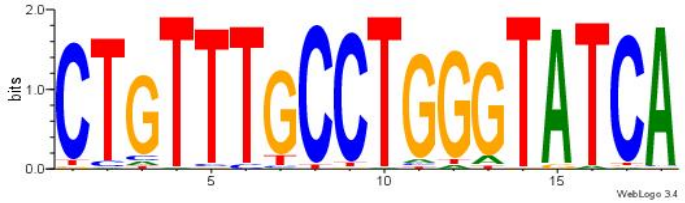

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0868365

Alignment:

```
GTGTCCCCTTCCTCCC
-TGTGACCTTGG----
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

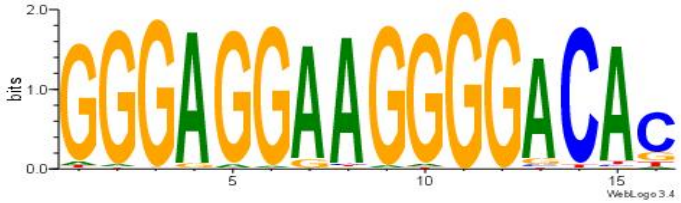

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

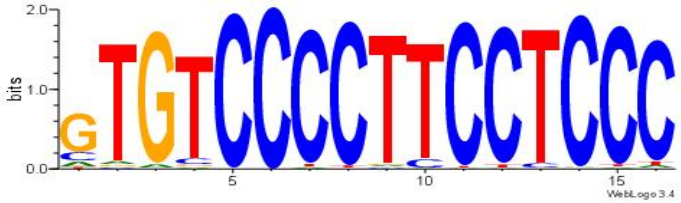

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0869395

Alignment:
CCCAAATCTCATSTTGAAT
CCAAGGTCACA--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

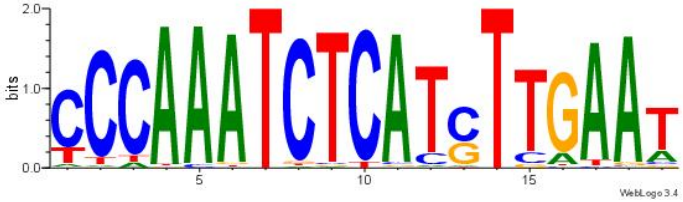

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

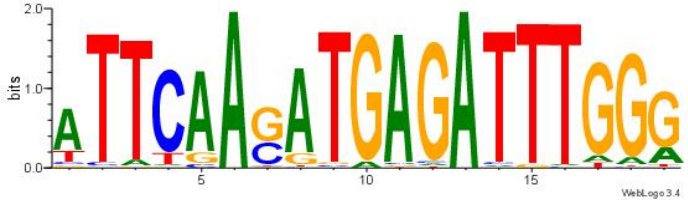

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0873011

Alignment:
AATTAAAAGACACAGACTG
---CCAAGGTCACA-----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

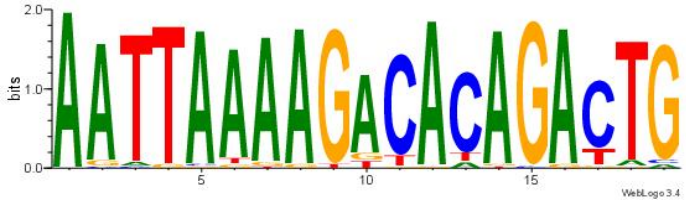

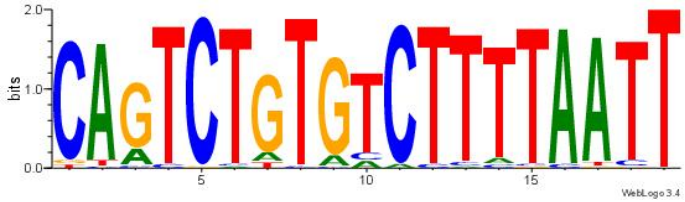

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.0876955

Alignment:
TYTGTCMTTTTGTGACTGGC
TGTGACCTTGG---------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

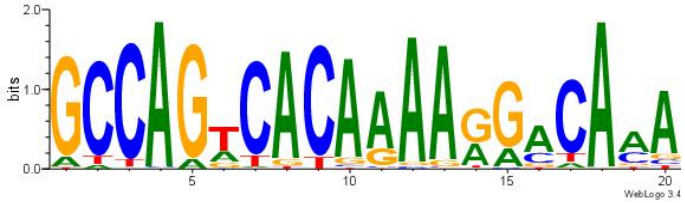

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

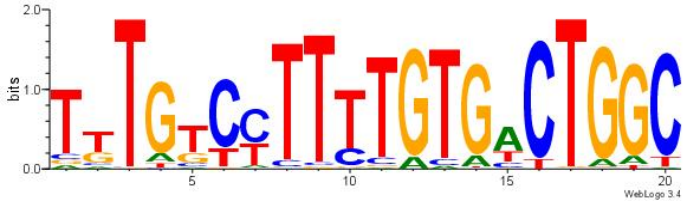

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.087735

Alignment:

```
CCTAGATTTCAGARGATGT
CCAAGGTCACA--------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

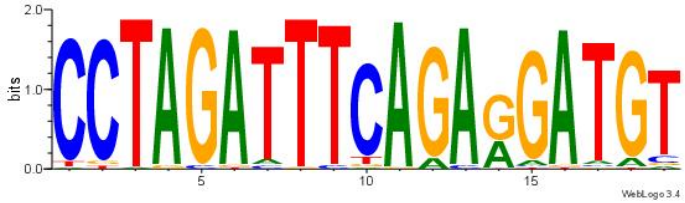

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

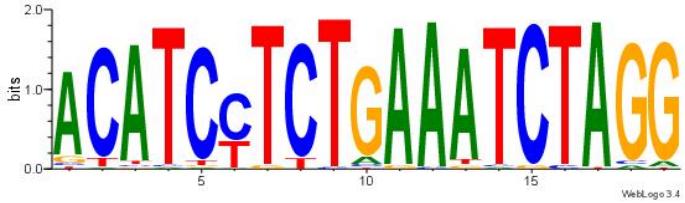

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.0878014

Alignment:
ATGTGGAGGTGGAAGACAGT
-TGTGACCTTGG--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

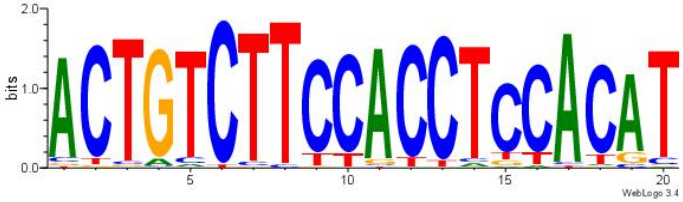

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

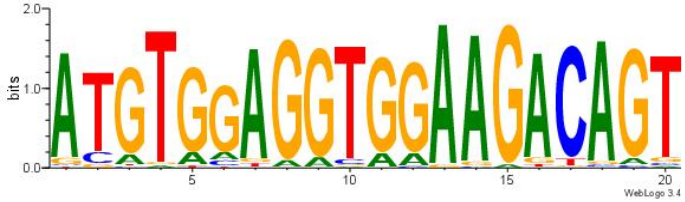

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0879783

Alignment:
AATGAKATCATGTCYTTTGC
--------TGTGACCTTGG-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

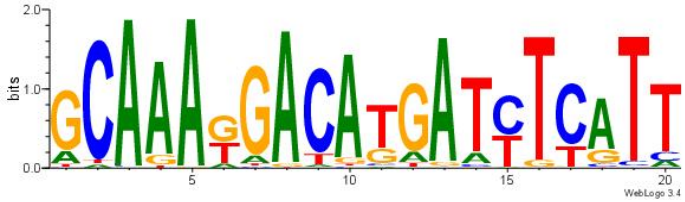

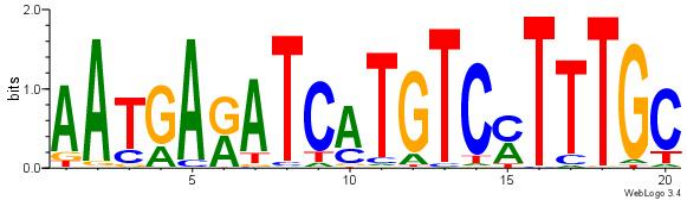

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0896249

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--------CCAAGGTCACA-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

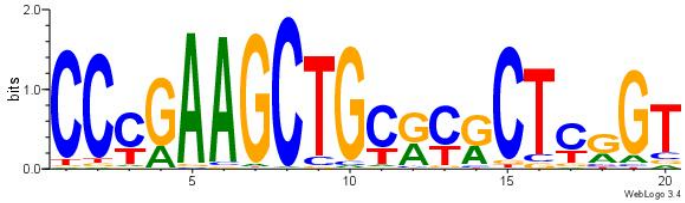

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

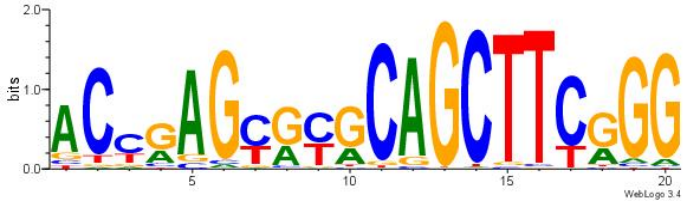

Dataset #:	1

Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0900652

Alignment:

```
TTACAGGCTCATA
--CCAAGGTCACA
```

Original motif Consensus sequence: TATGAGCCTGTAA

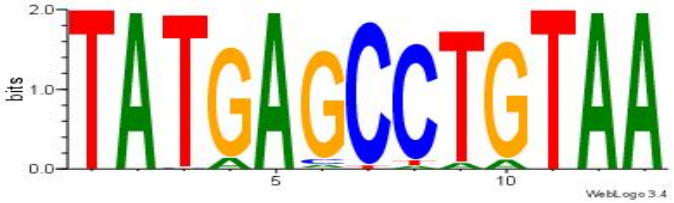

Reverse complement motif Consensus sequence: TTACAGGCTCATA

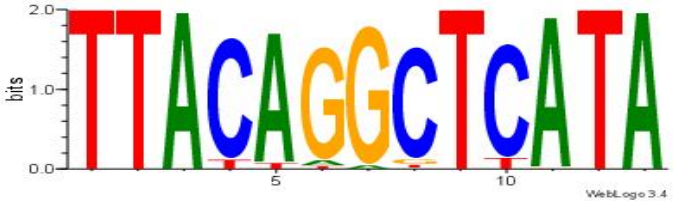

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0900989

Alignment:
TTGAGACMGKGTCT
-TGTGACCTTGG--

Original motif Consensus sequence: AGACYCYGTCTCAA

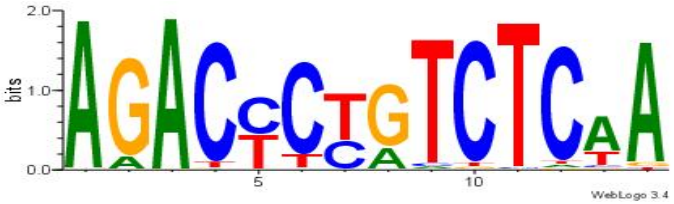

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

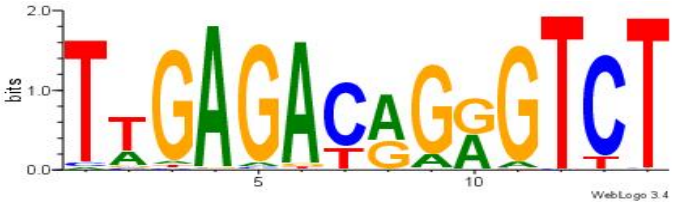

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0908934

Alignment:
CTGGCCCTCAATGGTTAAAC
--------CCAAGGTCACA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

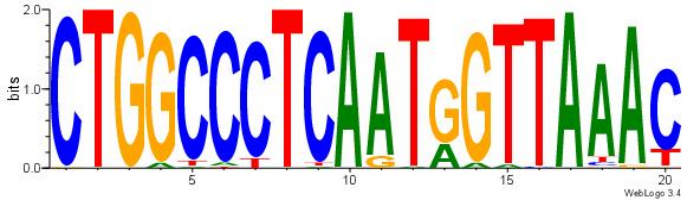

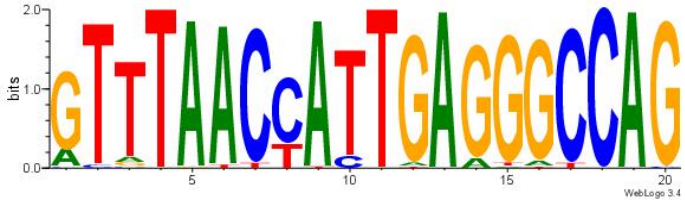

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0910821

Alignment:

```
AAAMAMMKMATGTTCTCACT
--CCAAGGTCACA-------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

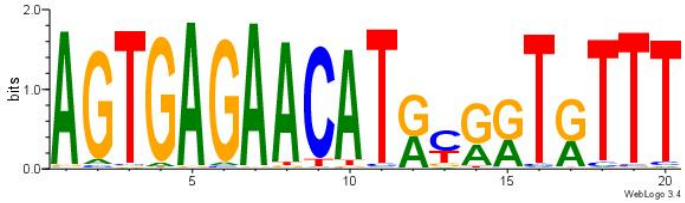

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

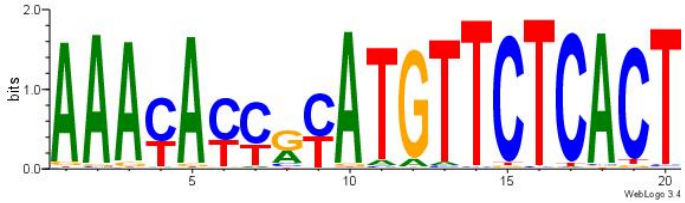

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0945267

Alignment:

```
GCTGGCCCKGGTGCTAAGC
TGTGACCTTGG--------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

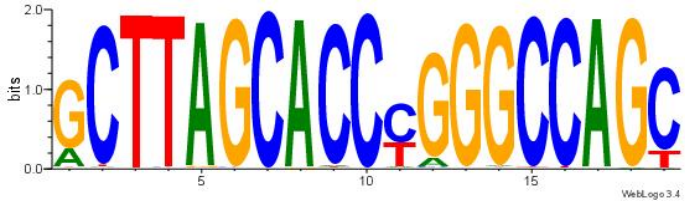

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

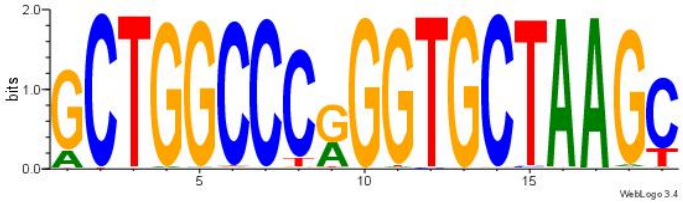

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0949015

Alignment:
GCGMGCGGGAACCGGGGCT
------TGTGACCTTGG--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

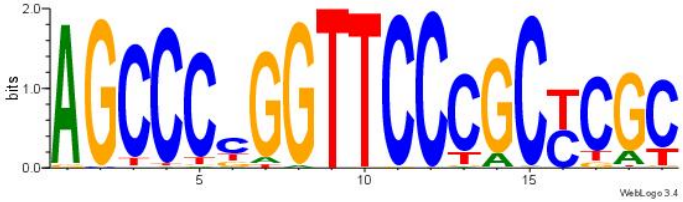

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

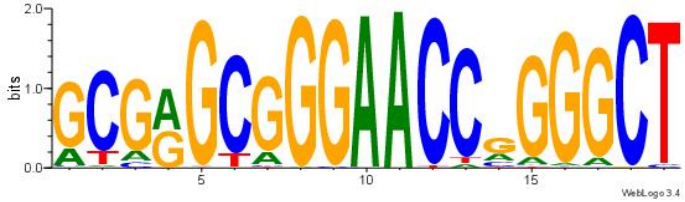

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.096089

Alignment:
AAAGTGCCGAGAKTGCAGC
------CCAAGGTCACA--

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

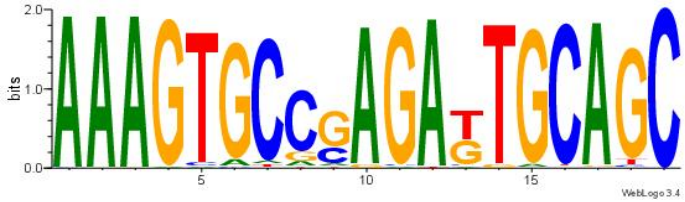

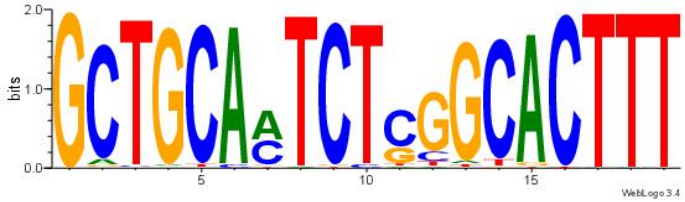

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0967151

Alignment:

```
TAAGTGGGAGCTAARC
-TGTGACCTTGG----
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

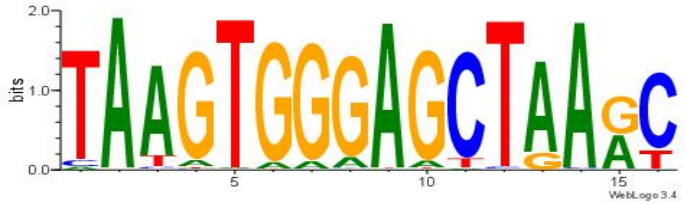

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

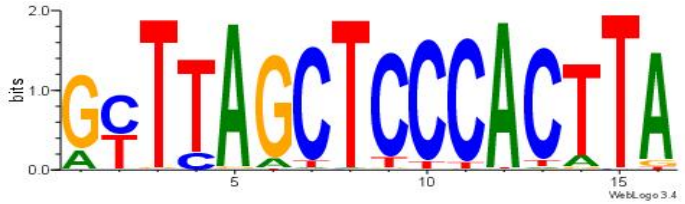

Dataset #:	1

Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0968101

Alignment:

```
GCAGTGAGCYRAGA
-TGTGACCTTGG--
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

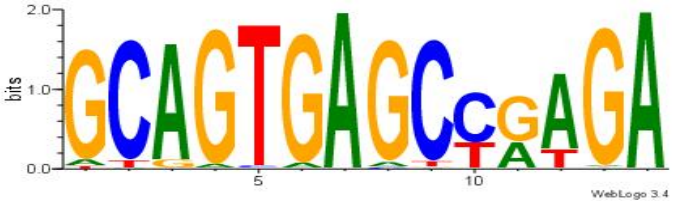

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

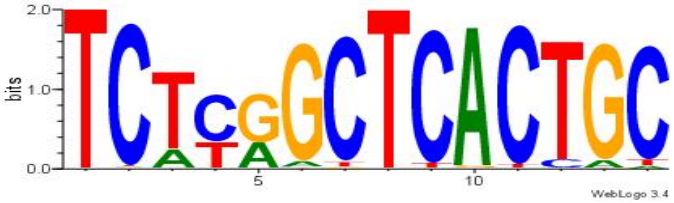

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0979376

Alignment:
CTATTGTGAATARTGCTGC
----TGTGACCTTGG----

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

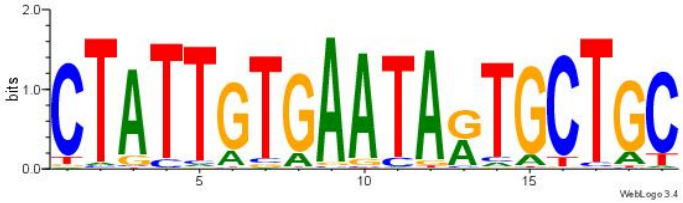

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

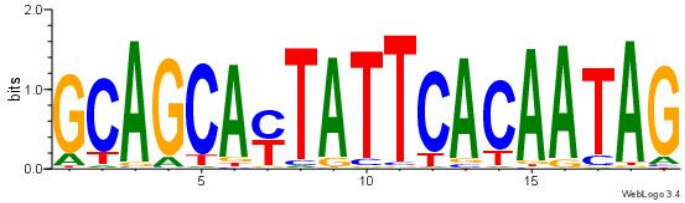

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0979971

Alignment:
CAGAAATCACC
CCAAGGTCACA

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

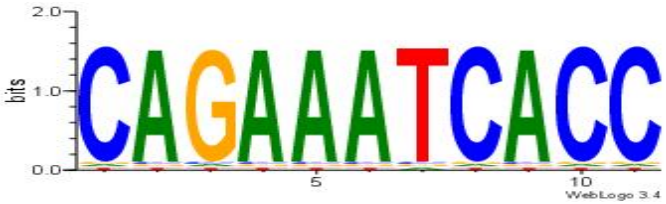

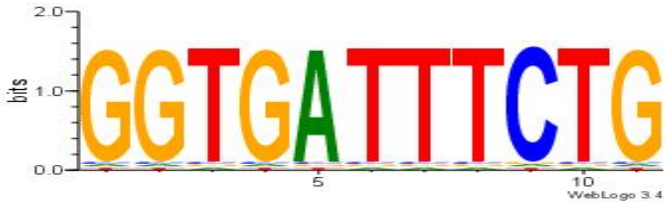

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0987115

Alignment:

```
AAGTTCTKGGKTACATGTGC
-----CCAAGGTCACA----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

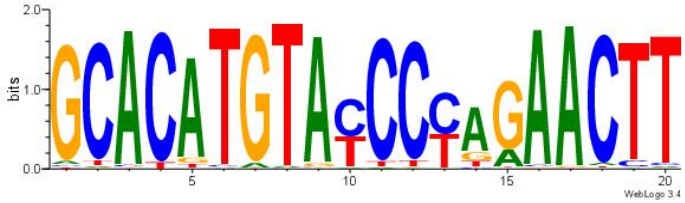

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

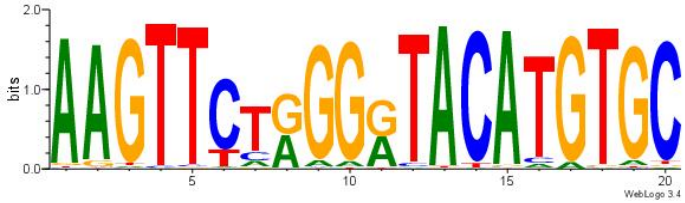

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0989642

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-----TGTGACCTTGG----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

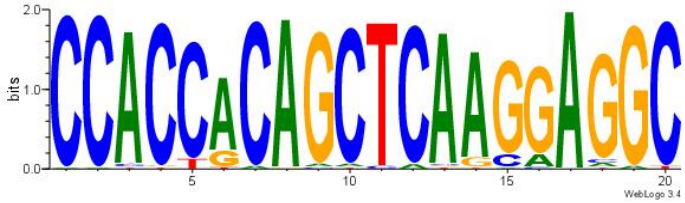

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

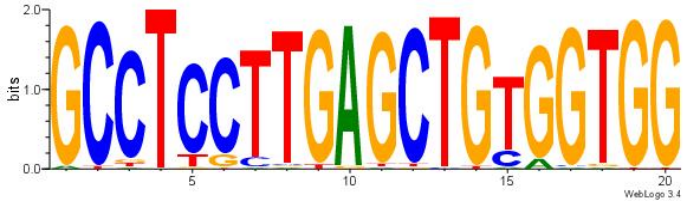

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0991011

Alignment:
AGCGACATGTGC
TGTGACCTTGG-

Original motif Consensus sequence: AGCGACATGTGC

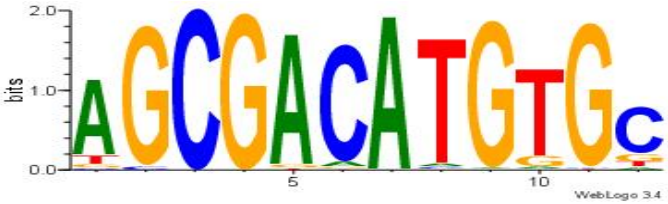

Reverse complement motif Consensus sequence: GCACATGTCGCT

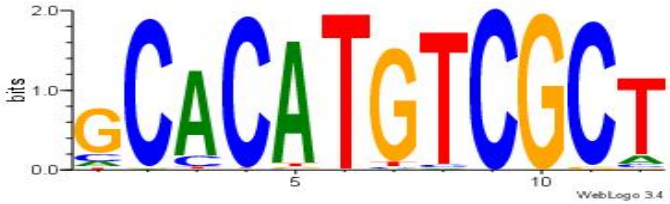

Dataset #: 1
Motif ID: 138
Motif name: Motif 138
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0998417

Alignment:
CAGCCAGATCRSCC
--CCAAGGTCACA-

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

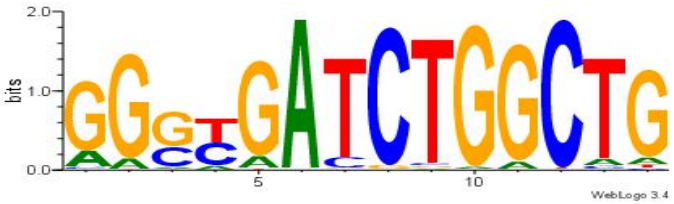

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.100364

Alignment:

```
GCAWSTGCAAAGGCCCT
------CCAAGGTCACA
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

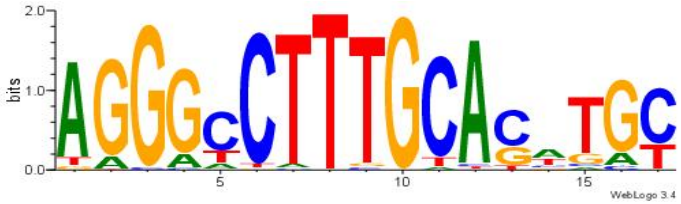

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

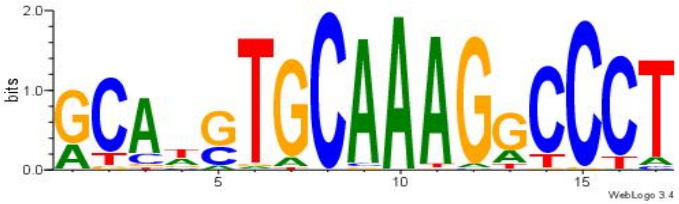

Dataset #: 1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.101004

Alignment:

```
ATCTCASAAATCACCACTA
----CCAAGGTCACA----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

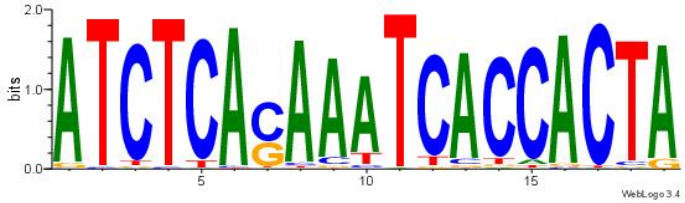

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

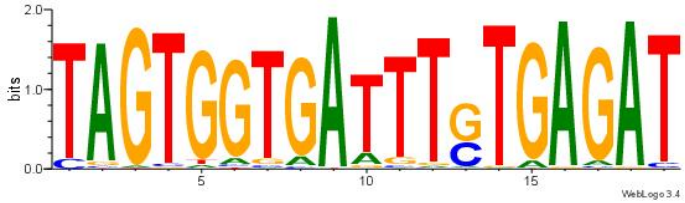

Dataset #:	1
Motif ID:	343
Motif name:	Motif 343
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.101489

Alignment:
CTGGGATTACA
CCAAGGTCACA

Original motif Consensus sequence: CTGGGATTACA

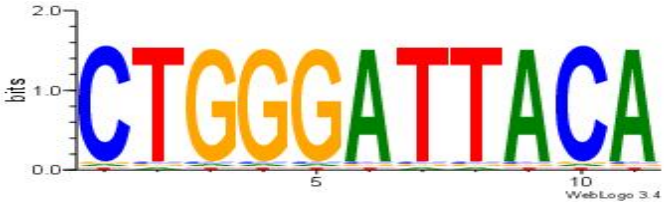

Reverse complement motif Consensus sequence: TGTAATCCCAG

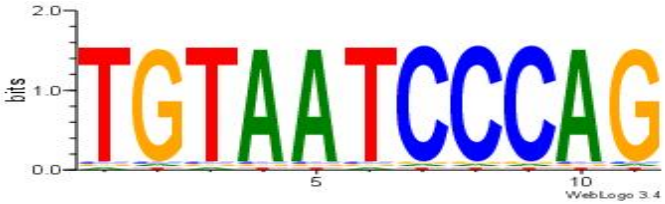

Dataset #: 1
Motif ID: 4
Motif name: Motif 4
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.101966

Alignment:
GCTGGGATTACAGG
-CCAAGGTCACA--

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

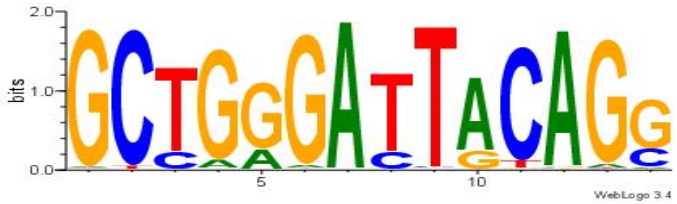

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.10203

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-TGTGACCTTGG--------
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

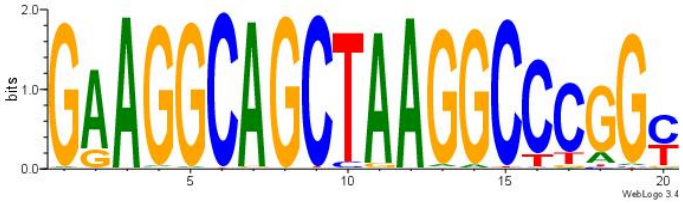

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

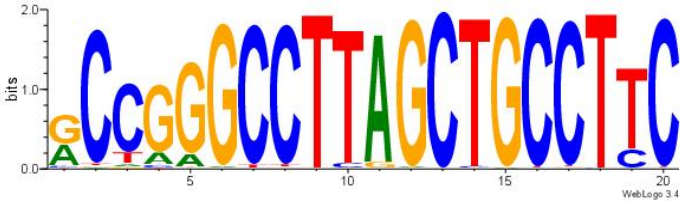

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.102226

Alignment:

```
CAGGTGGTKTTTGGTTACAT
--TGTGACCTTGG-------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

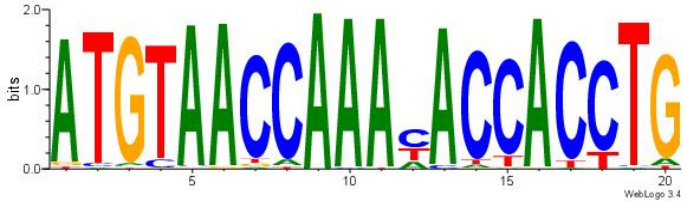

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

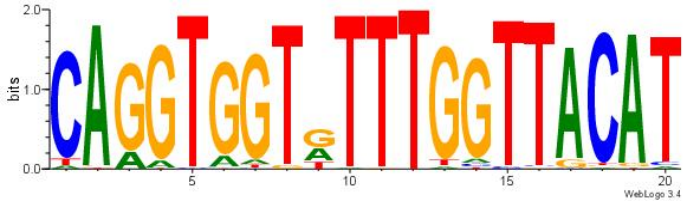

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.102968

Alignment:
ACCTGGAAAATCGGGTCACT
---------CCAAGGTCACA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

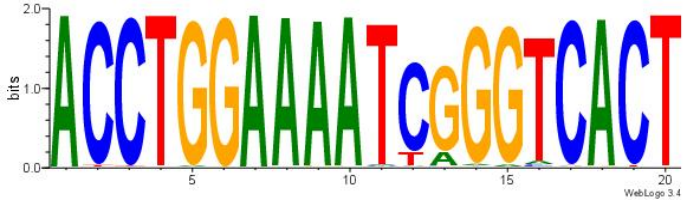

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

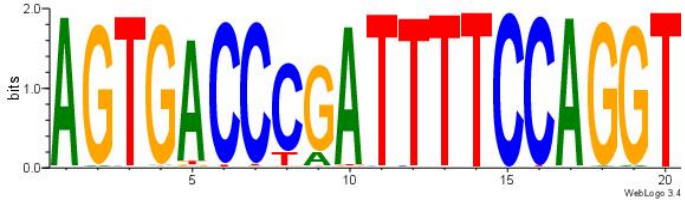

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.10369

Alignment:
GCCKGGMKCMGTGGCTCAKG
---TGTGACCTTGG------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

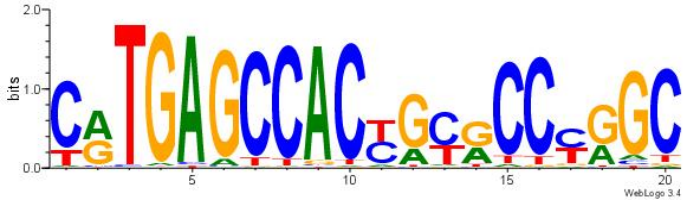

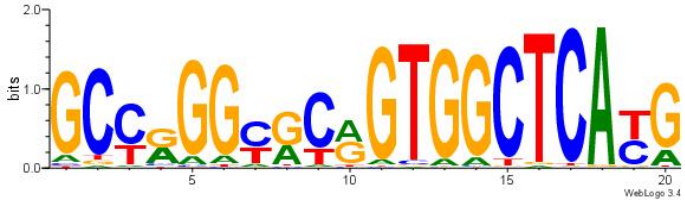

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.103826

Alignment:

```
CAGAAATCACCCGTCTT
CCAAGGTCACA------
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

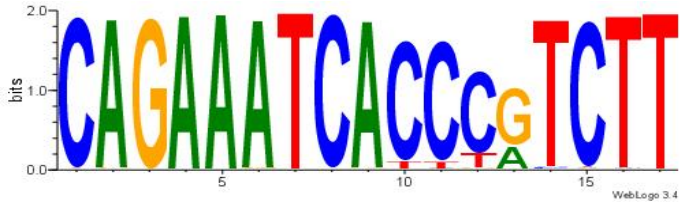

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

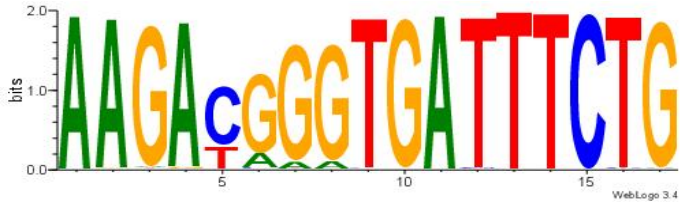

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.10386

Alignment:

```
AAGCTCGAACTGGGTGGAGC
---TGTGACCTTGG------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

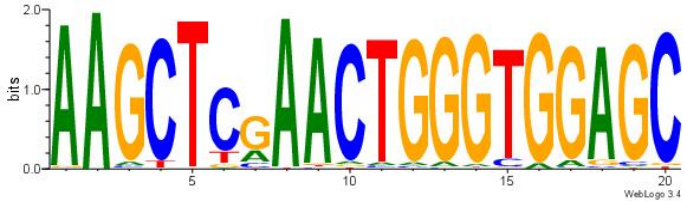

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

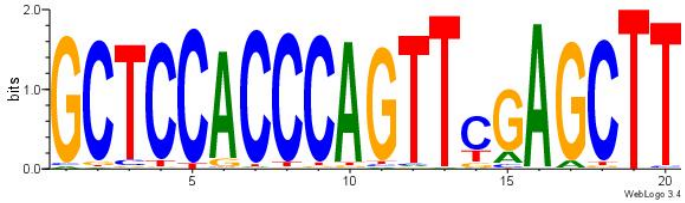

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.104083

Alignment:
GAATCCTGGGACAGCCTGT
----CCAAGGTCACA----

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

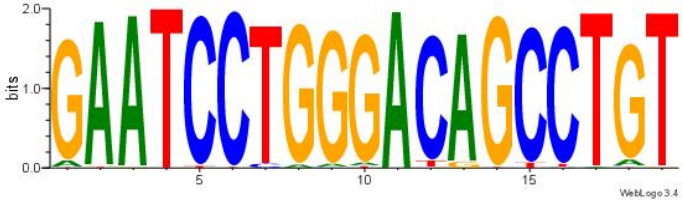

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

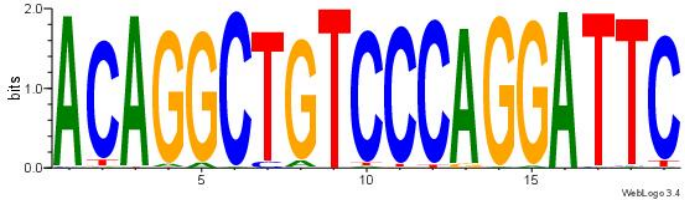

Dataset #: 1 Motif ID: 265 Motif name: Motif 265

Original motif Consensus sequence: GCGCATGCGCA

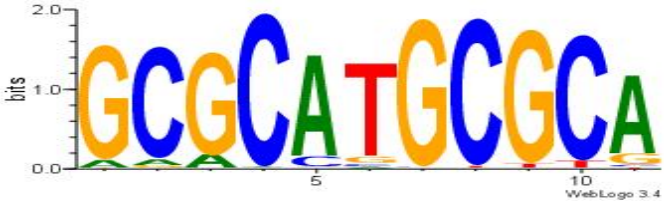

Reverse complement motif Consensus sequence: TGCGCATGCGC

Best Matches for Motif ID 265 (Highest to Lowest)

Dataset #:	1
Motif ID:	180
Motif name:	Motif 180
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.00596496

Alignment:

```
TGCGCATGCGCA
TGCGCATGCGC-
```

Original motif Consensus sequence: TGCGCATGCGCA

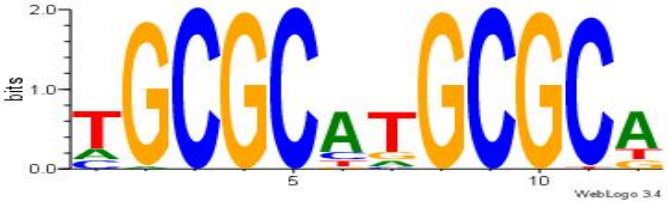

Reverse complement motif Consensus sequence: TGCGCATGCGCA

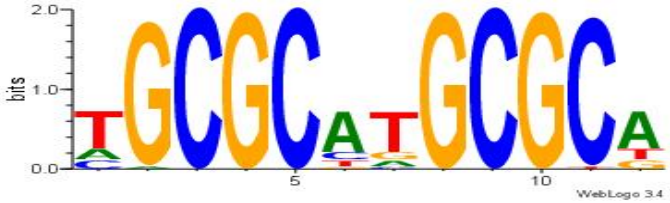

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0616255

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
---TGCGCATGCGC------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

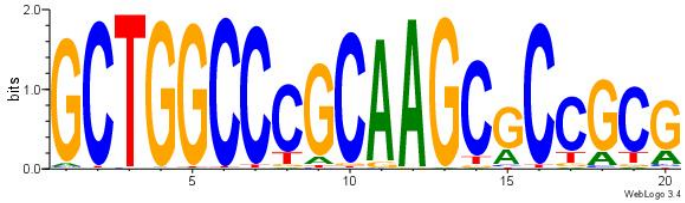

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

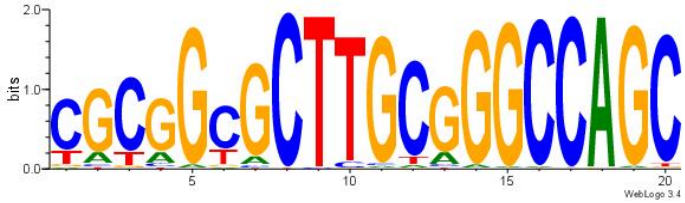

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0658945

Alignment:

```
CAAGCGCCAGCTCATGTC
---GCGCATGCGCA----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

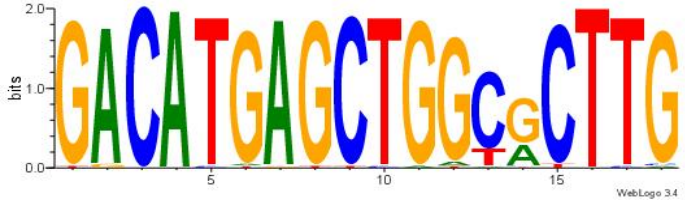

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

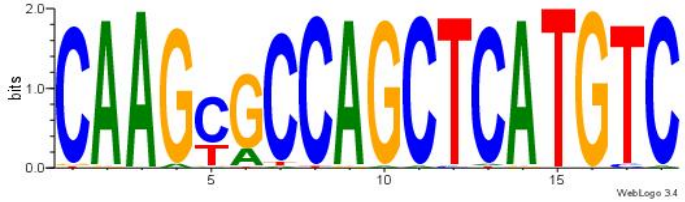

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.079487

Alignment:

```
HGCTCCTGTGSKCCC
----TGCGCATGCGC
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

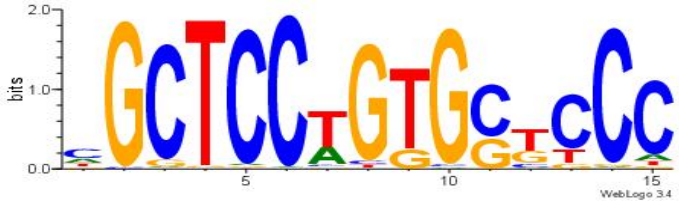

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 11
Similarity score: 0.0805098

Alignment:
TGCGCGCACCCAC
-GCGCATGCGCA-

Original motif Consensus sequence: GTGGGTGCGCGCA

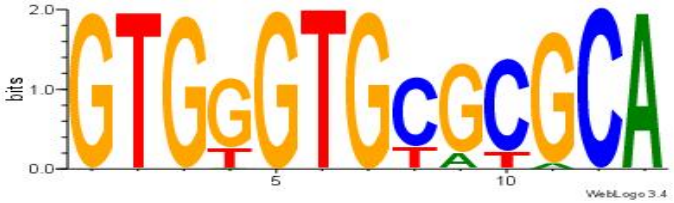

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

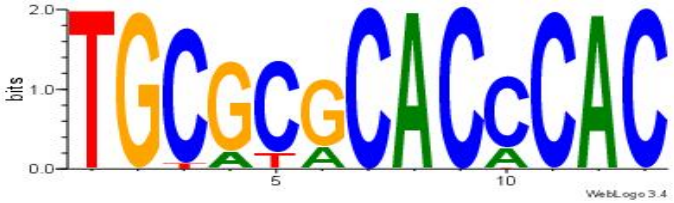

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0813903

Alignment:
AGGAGCCCCTCHGCCCR
---TGCGCATGCGC---

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

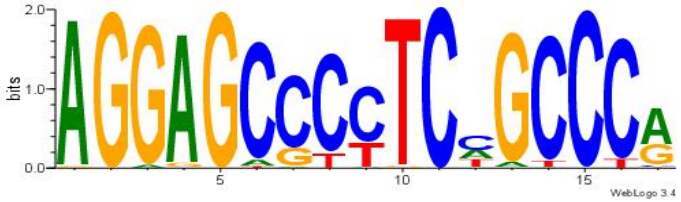

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.082389

Alignment:

```
TTTTCACATGCCTTTCT
--TGCGCATGCGC----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

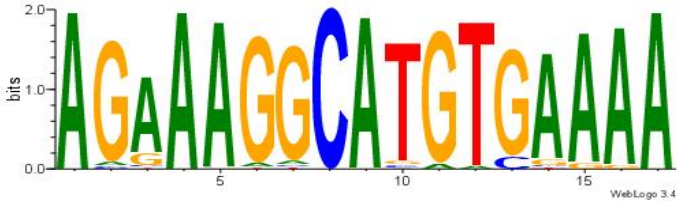

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

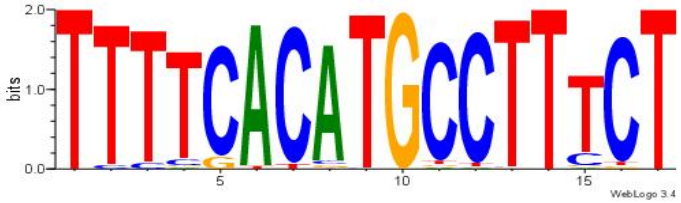

Dataset #: 1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0826209

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-TGCGCATGCGC-------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

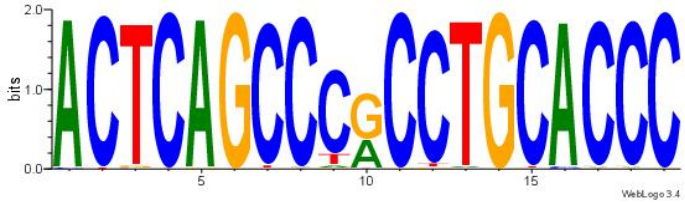

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

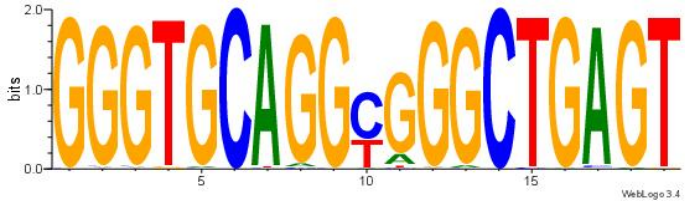

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0826955

Alignment:
CCGCTCCTGTGC
TGCGCATGCGC-

Original motif Consensus sequence: CCGCTCCTGTGC

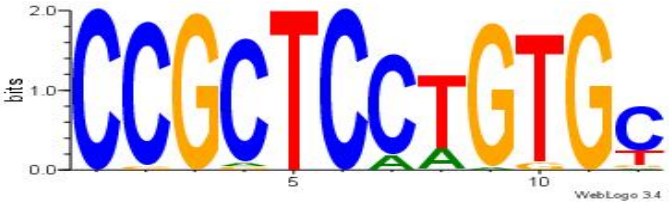

Reverse complement motif Consensus sequence: GCACAGGAGCGG

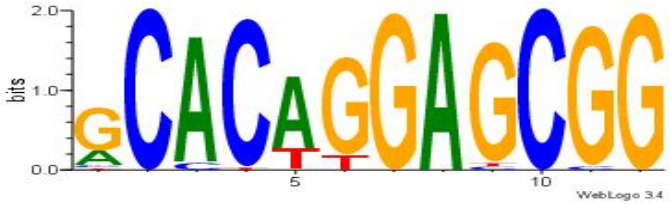

Dataset #: 1
Motif ID: 257
Motif name: Motif 257
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0830782

Alignment:
GAGAACACATGGACA
----GCGCATGCGCA

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

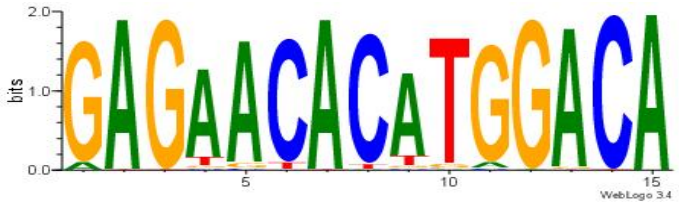

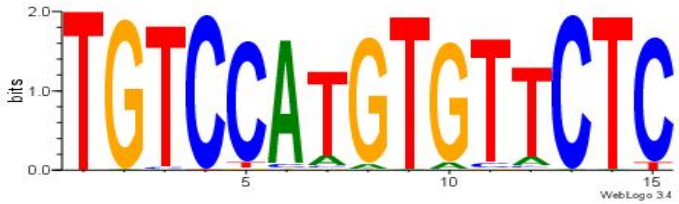

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0837142

Alignment:

```
GCGGCCGGGCAGAG
---GCGCATGCGCA
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

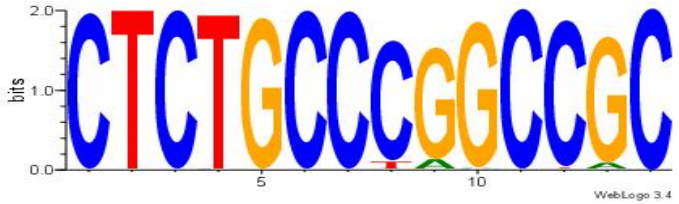

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

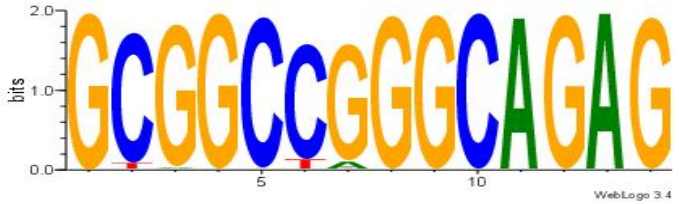

Dataset #:	1
Motif ID:	128

Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0845084

Alignment:

```
CMGCTCCGAGTGCGG
----TGCGCATGCGC
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

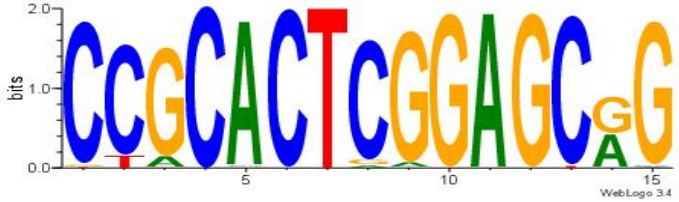

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

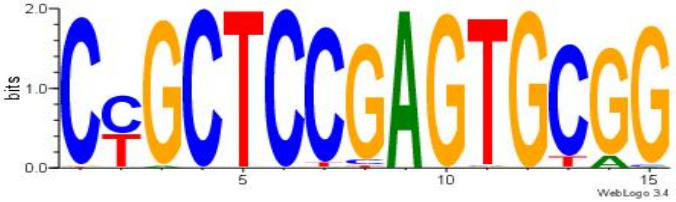

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0870718

Alignment:
AAGTTCTKGGKTACATGTGC
---------TGCGCATGCGC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

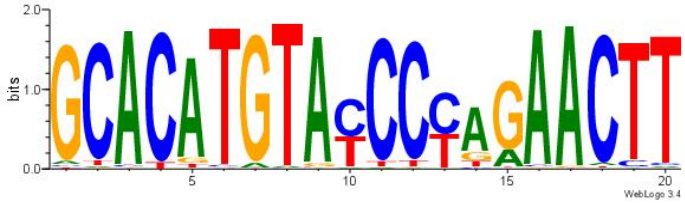

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

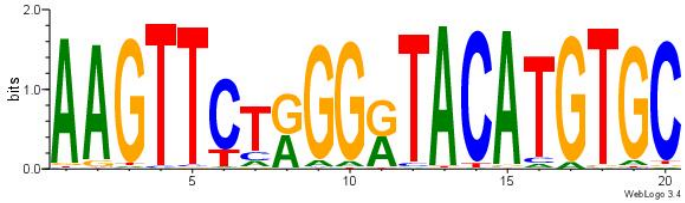

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0872639

Alignment:
AGGGCCTTTGCASWTGC
-GCGCATGCGCA-----

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

Reverse complement motif Consensus sequence:
GCAWSTGCAAAGGCCCT

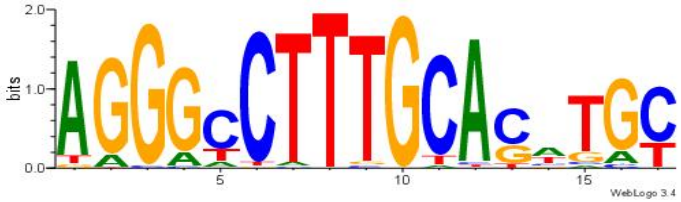

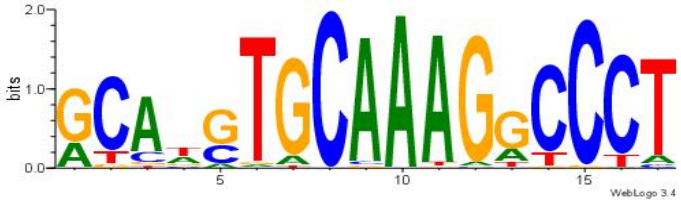

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0873081

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
TGCGCATGCGC---------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

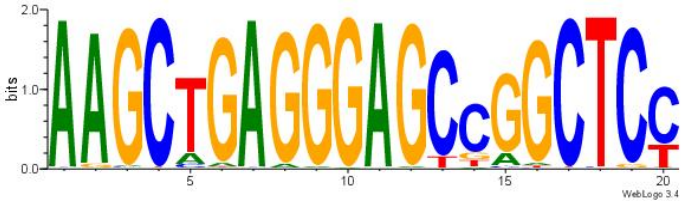

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

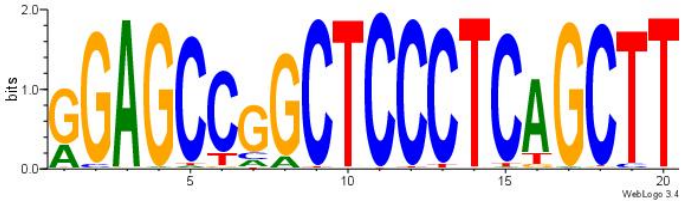

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0891766

Alignment:

```
CTTGCCCAAGGTCACACAGC
--TGCGCATGCGC-------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

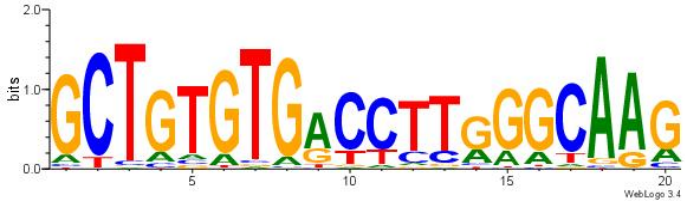

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

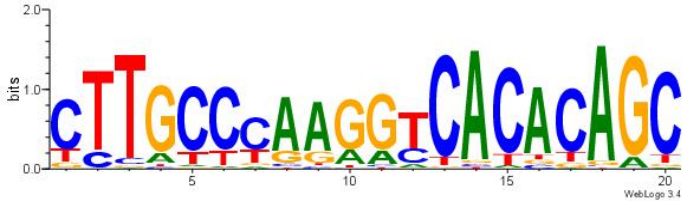

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0894658

Alignment:
GCAGAGGCGCTCCT
GCGCATGCGCA---

Original motif Consensus sequence: GCAGAGGCGCTCCT

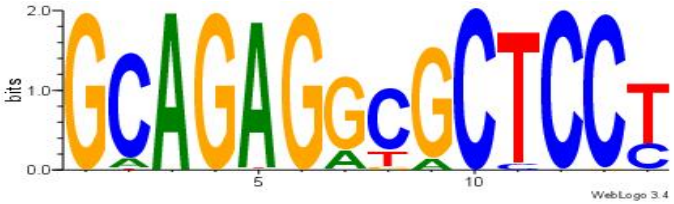

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

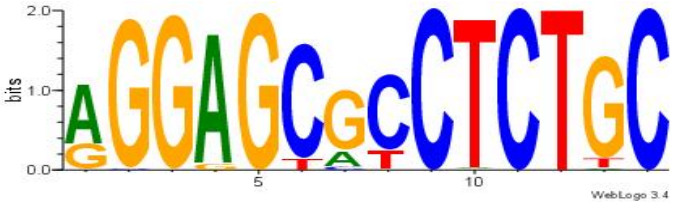

Dataset #: 1
Motif ID: 31
Motif name: Motif 31
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0896416

Alignment:
CGGCTCGCGCACGG
-GCGCATGCGCA--

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

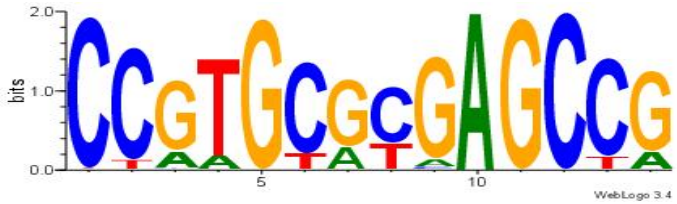

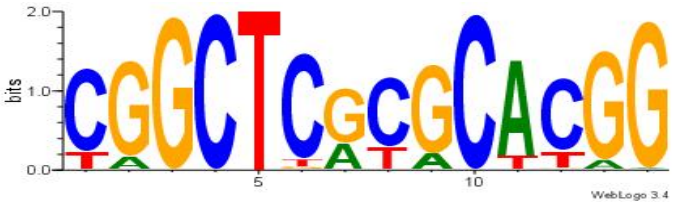

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0899544

Alignment:

```
GCTTAGCACCYGGGCCAGC
-----GCGCATGCGCA---
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

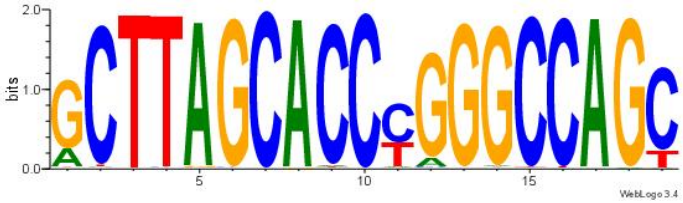

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

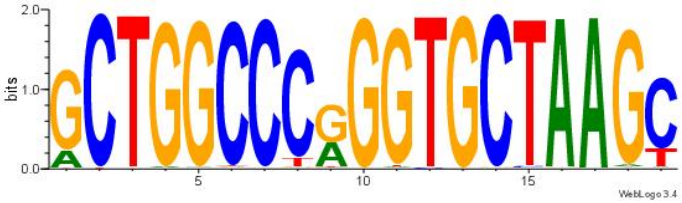

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0909019

Alignment:

```
CCCACGCCCACCCGGAACT
---GCGCATGCGCA-----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

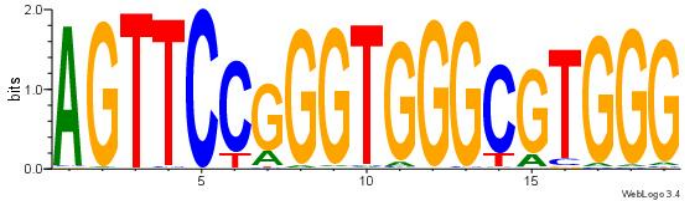

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

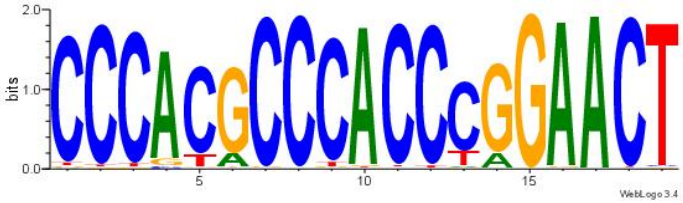

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.091642

Alignment:
AGGACTGAGGGTGCCYRGGG
-----TGCGCATGCGC----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

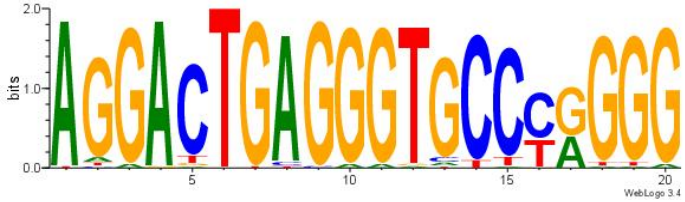

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

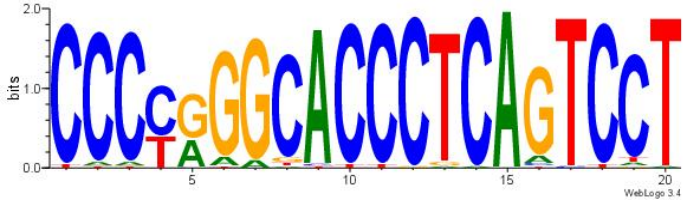

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0917988

Alignment:
ACACCTATTCGCACAC
--GCGCATGCGCA---

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

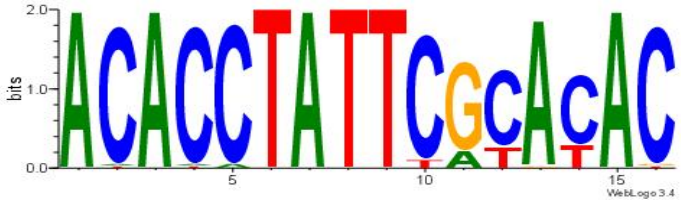

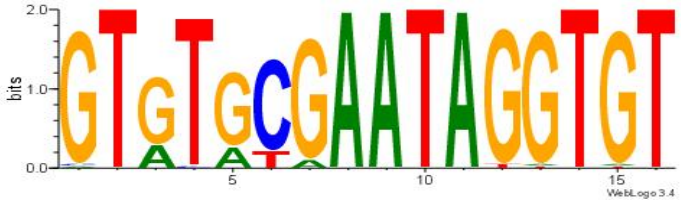

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0920346

Alignment:

```
CCTGCCATTGCYSAGGCTTG
-TGCGCATGCGC--------
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

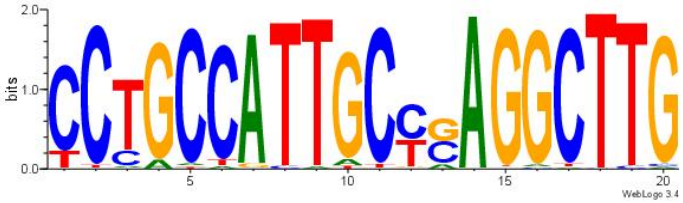

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

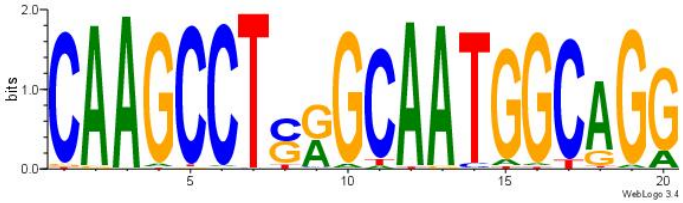

Dataset #: 1

Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0920447

Alignment:

```
GGRCKCACWGGAGC
---TGCGCATGCGC
```

Original motif Consensus sequence: GCTCCWGTGYGKCC

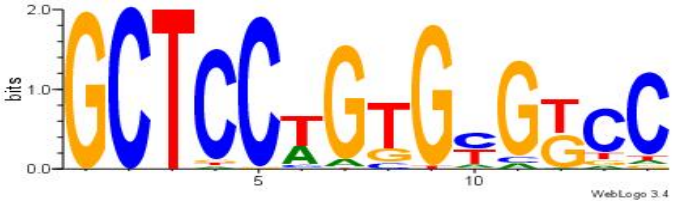

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0929843

Alignment:
AGGAGCGCCTCTKCCCGGC
----GCGCATGCGCA----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

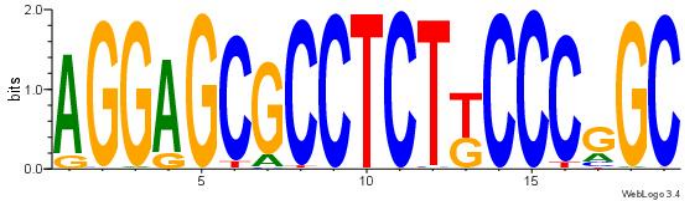

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

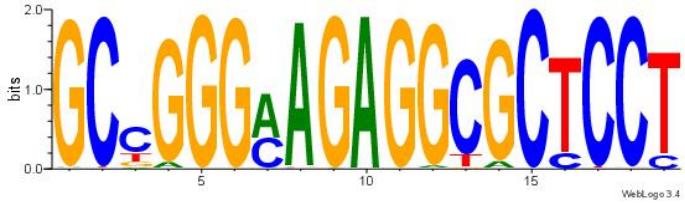

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0935337

Alignment:
TCACKMGGGAAGCGCAAG
--GCGCATGCGCA-----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

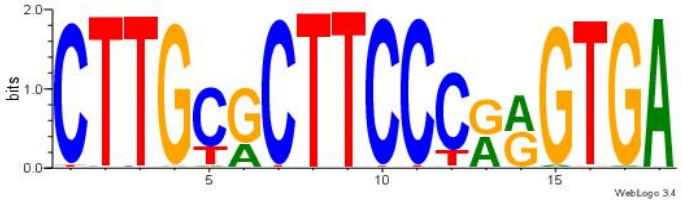

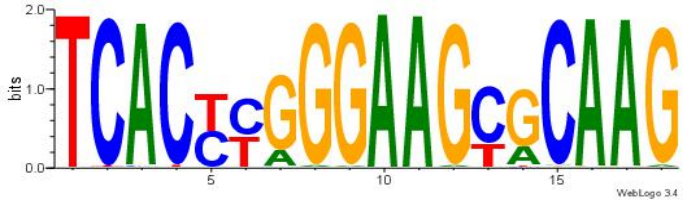

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0937621

Alignment:

```
VCCDCCTCCKCCTCCTC
------TGCGCATGCGC
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

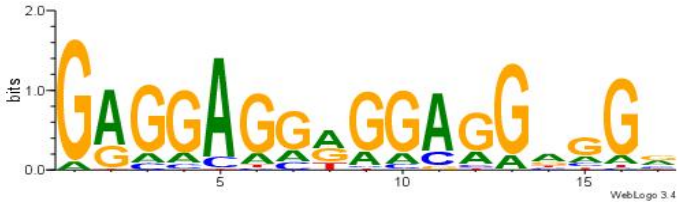

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

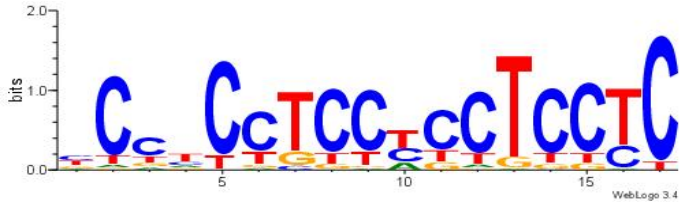

Dataset #: 1

Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.093998

Alignment:

```
GGGACWGCACAT
-GCGCATGCGCA
```

Original motif Consensus sequence: ATGTGCWGTCCC

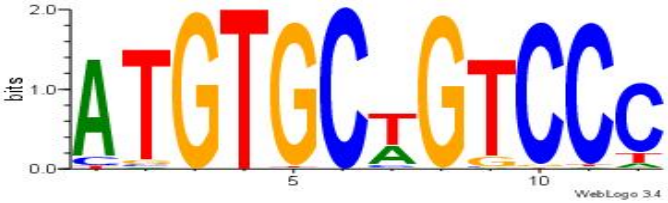

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.094626

Alignment:
GCTGGAGTGCAGTGGCRYGA
------GCGCATGCGCA---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

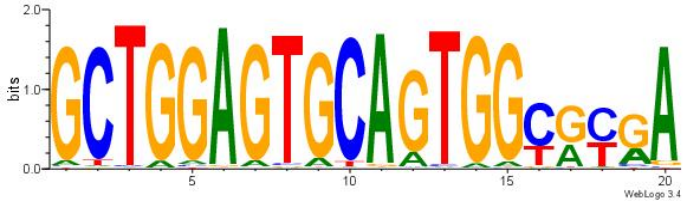

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

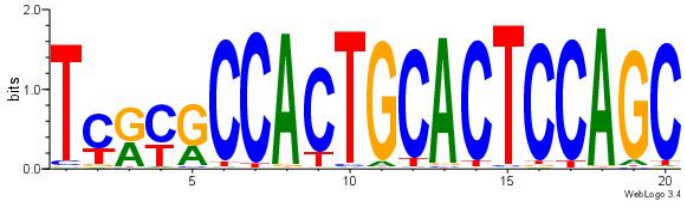

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0953705

Alignment:
AGCTCCCAGCGTGAGCGACG
------GCGCATGCGCA---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

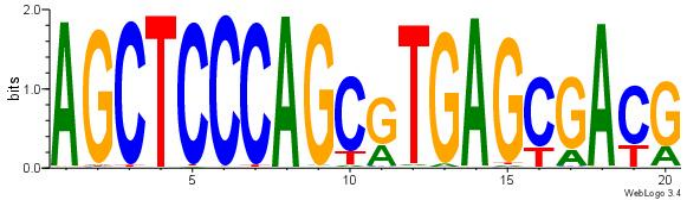

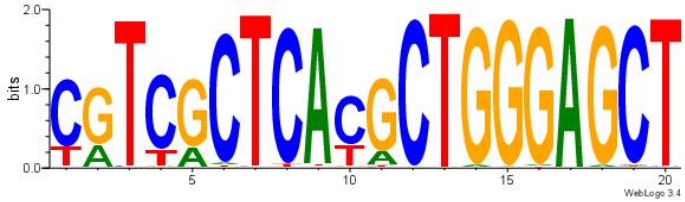

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0963307

Alignment:

```
TCTCAAGTCCAT
GCGCATGCGCA-
```

Original motif Consensus sequence: ATGGACTTGAGA

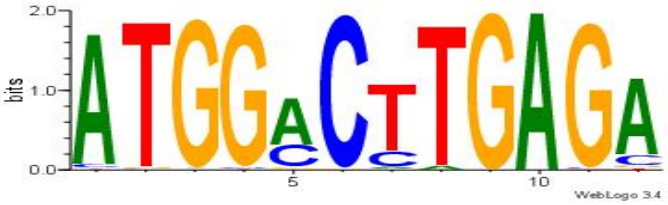

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

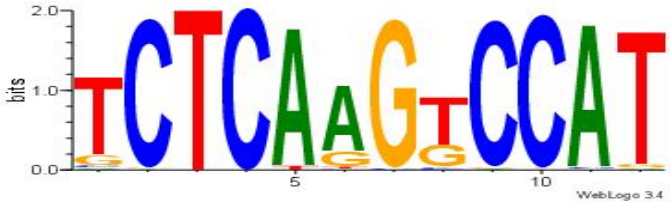

Dataset #:	1
Motif ID:	286

Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0964871

Alignment:

```
CAGGCGGCTGGGAG
--TGCGCATGCGC-
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

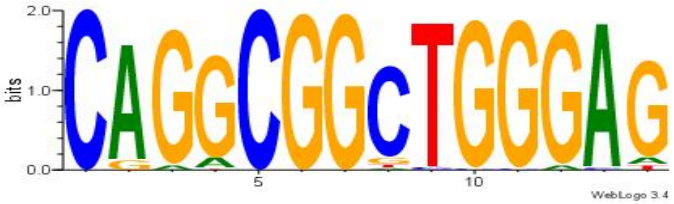

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

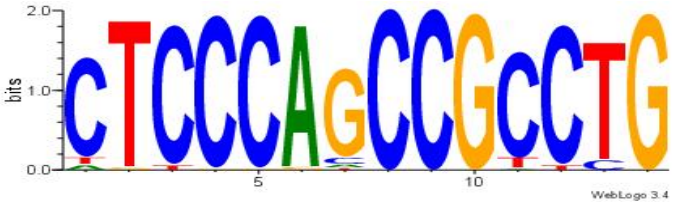

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0964917

Alignment:
CACCAGACTCAGGAGCCCAG
---GCGCATGCGCA------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

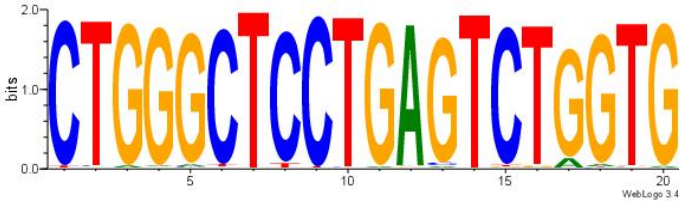

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

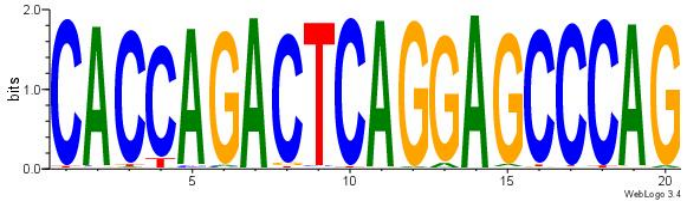

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0966516

Alignment:
ACACACAYACACACACACA
--GCGCATGCGCA------

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

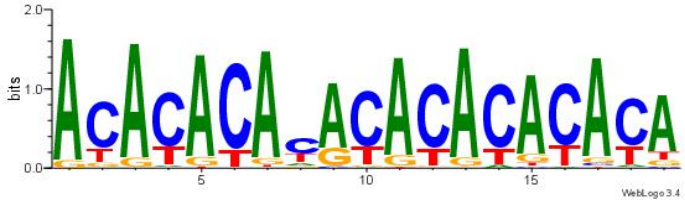

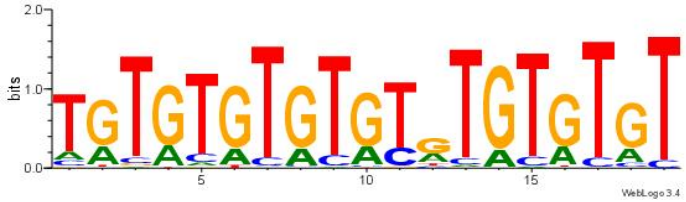

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0967964

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-----TGCGCATGCGC---
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

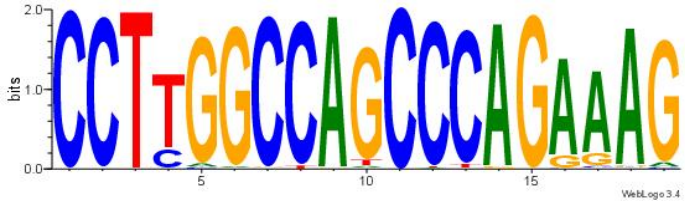

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

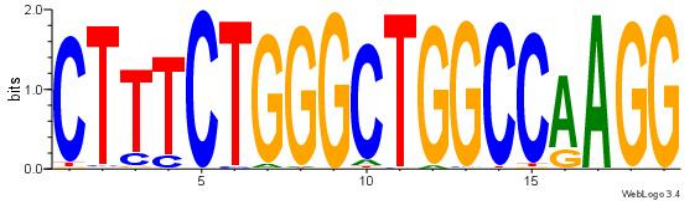

Dataset #:	1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0972367

Alignment:

```
TCTCTGAGCCTCAGTT
-TGCGCATGCGC----
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

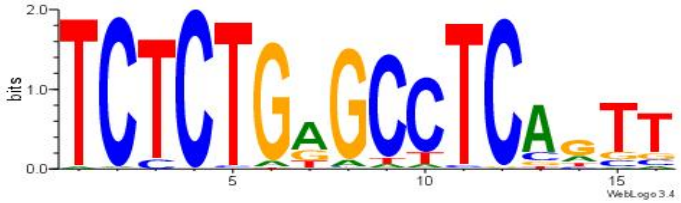

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

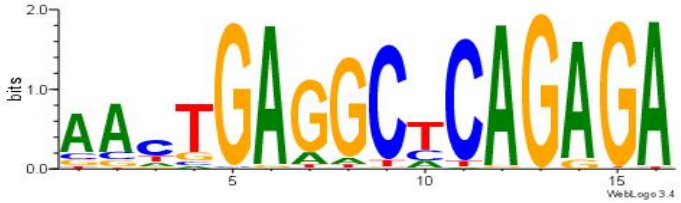

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0979624

Alignment:
CATTAGATTCTCATAGGA
TGCGCATGCGC-------

Original motif Consensus sequence: CATTAGATTCTCATAGGA

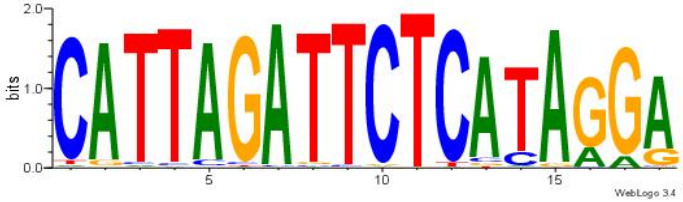

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

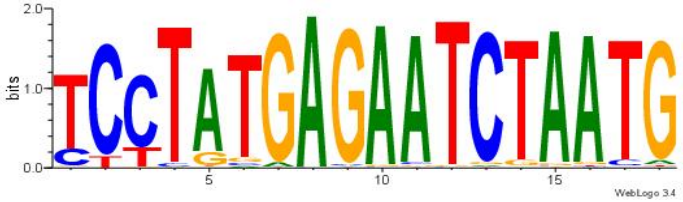

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0980084

Alignment:
GAAGGCAGCTAAGGCCCGGY
-------GCGCATGCGCA--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

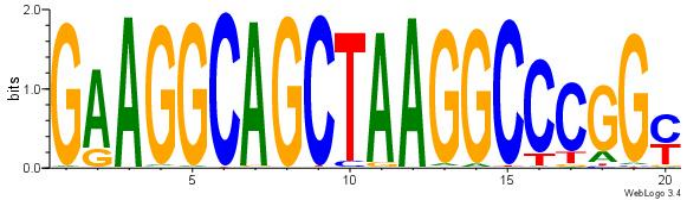

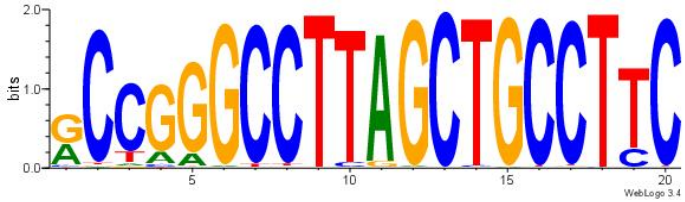

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0980841

Alignment:

```
GCAGCAGCAGCA
-GCGCATGCGCA
```

Original motif Consensus sequence: GCAGCAGCAGCA

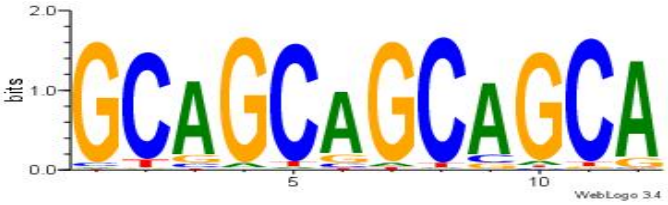

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

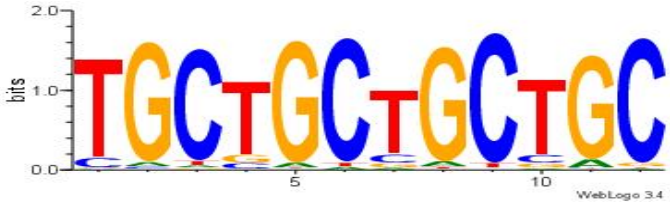

Dataset #:	1
Motif ID:	335

Motif name:	Motif 335
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0986725

Alignment:

```
TCAGCATTAAC
TGCGCATGCGC
```

Original motif Consensus sequence: GTTAATGCTGA

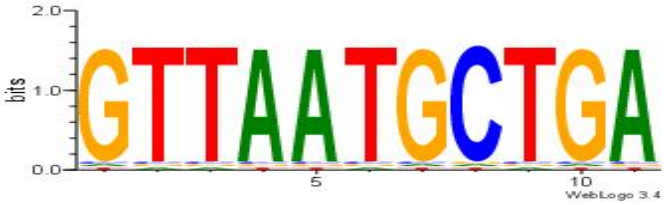

Reverse complement motif Consensus sequence: TCAGCATTAAC

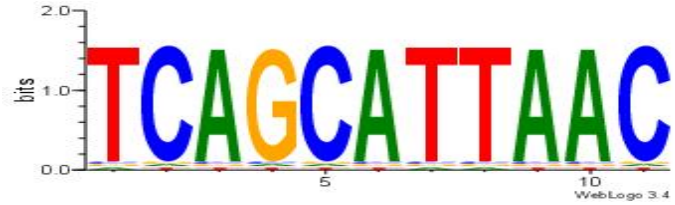

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0986969

Alignment:
CACTGCACTCCAGC
---TGCGCATGCGC

Original motif Consensus sequence: CACTGCACTCCAGC

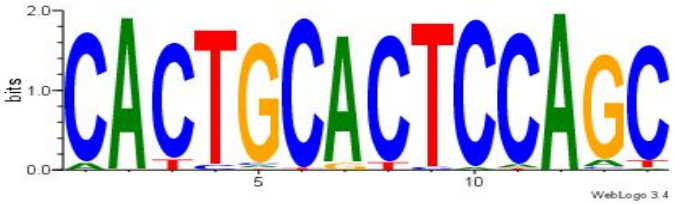

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

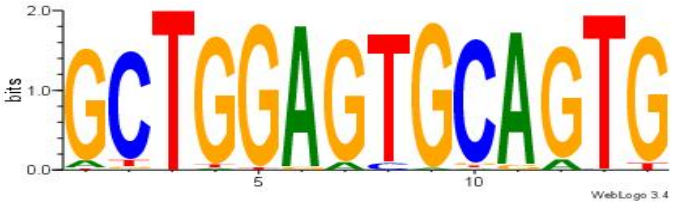

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0988694

Alignment:
AGACCAGCCTGGCCAAC
----GCGCATGCGCA--

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

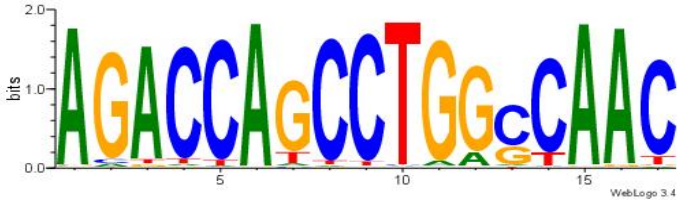

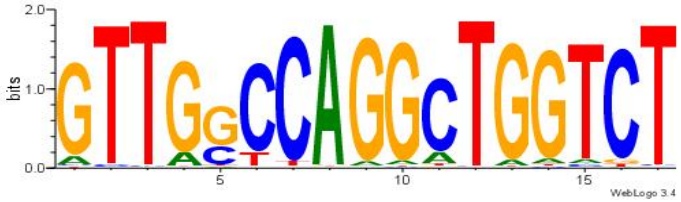

Dataset #:	1
Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0994547

Alignment:

```
TGTGCTAGCAAT
TGCGCATGCGC-
```

Original motif Consensus sequence: ATTGCTAGCACA

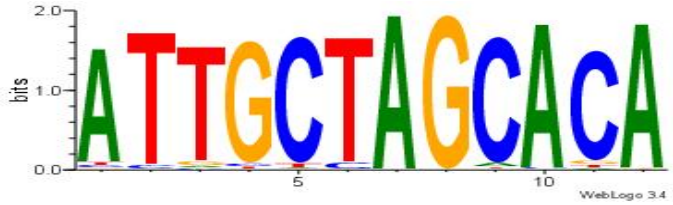

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

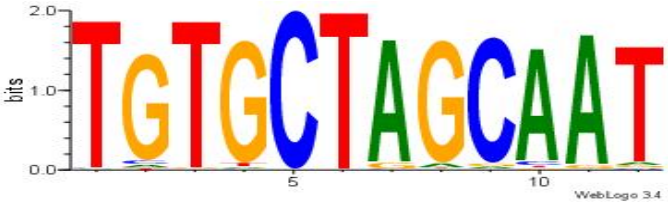

Dataset #:	1
Motif ID:	245

Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0994777

Alignment:

```
CAGACTGCCTCCTCAA
----GCGCATGCGCA-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

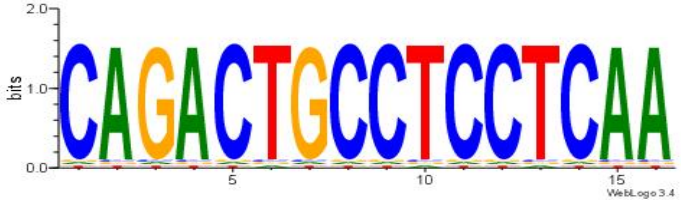

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

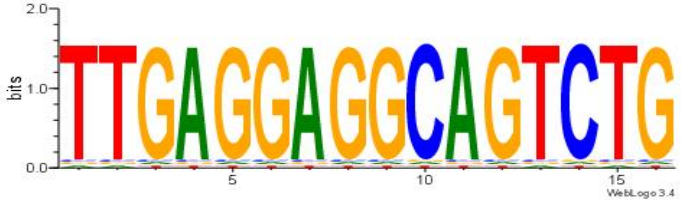

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0995102

Alignment:
AGGCGGCTGGGAGG
--GCGCATGCGCA-

Original motif Consensus sequence: AGGCGGCTGGGAGG

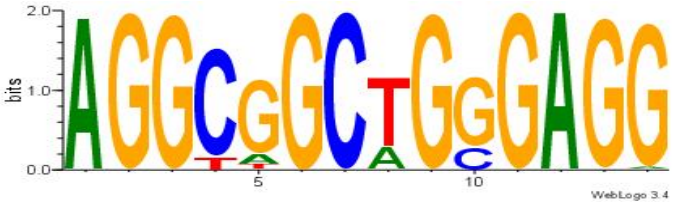

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	324
Motif name:	Motif 324
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0995642

Alignment:
ACGCACCTGTA
GCGCATGCGCA

Original motif Consensus sequence: ACGCACCTGTA

Reverse complement motif Consensus sequence: TACAGGTGCGT

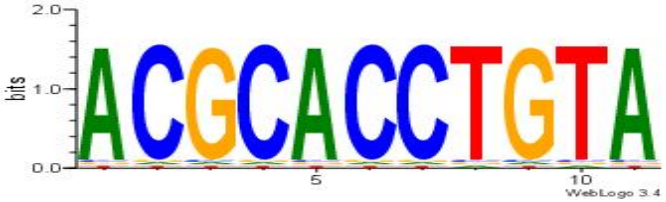

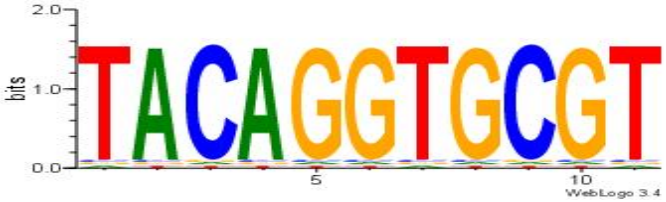

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0996952

Alignment:

```
TGCTCACACAAAGCCTGT
------GCGCATGCGCA-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

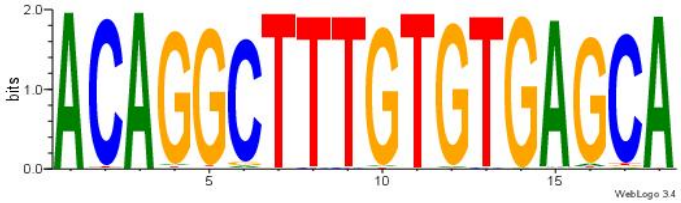

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

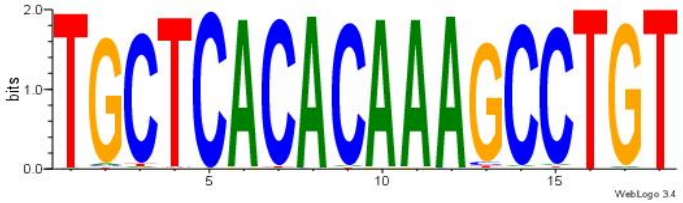

Dataset #: 1

Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0999135

Alignment:

```
CGCCGCCGCCGC
TGCGCATGCGC-
```

Original motif Consensus sequence: CGCCGCCGCCGC

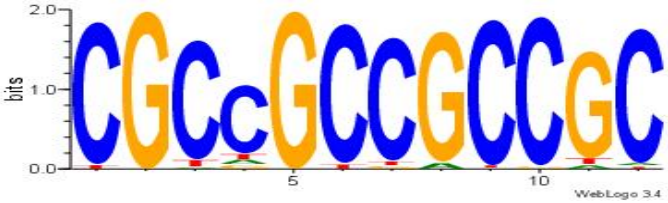

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

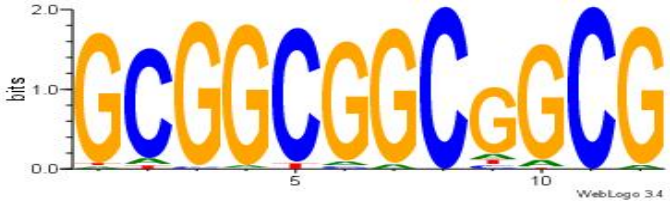

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.100009

Alignment:
AGAAATCGAGCRCAGCGCCG
---------GCGCATGCGCA

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

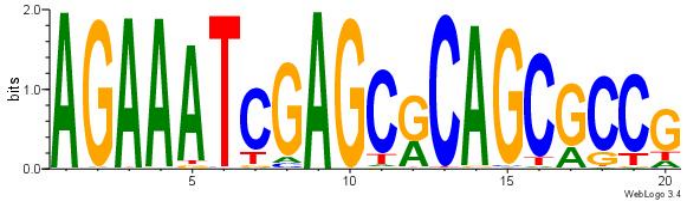

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

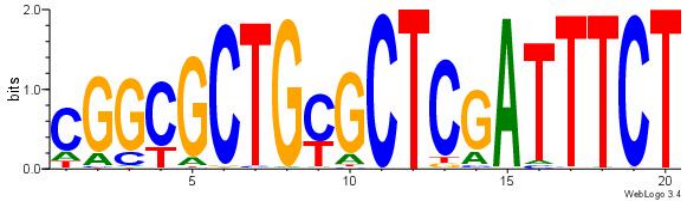

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.100396

Alignment:
CGAGCCTCCCCGAYGAGCGC
-GCGCATGCGCA--------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

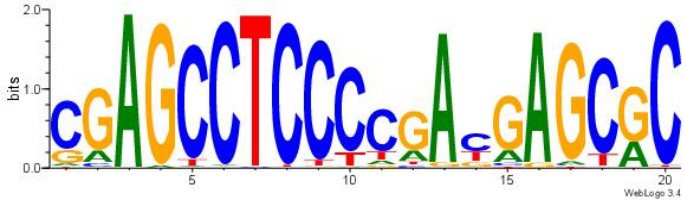

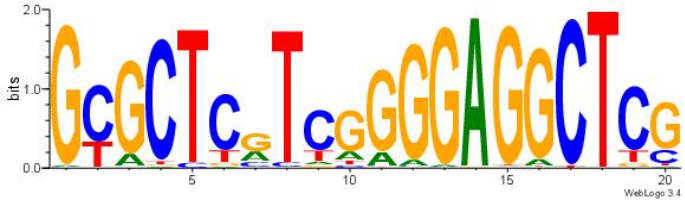

Dataset #: 1 **Motif ID: 266** **Motif name: Motif 266**

Original motif Consensus sequence: GCAGCAGCAGCA

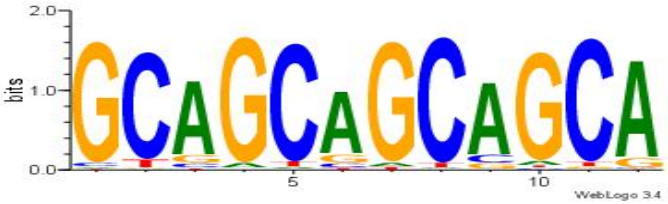

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

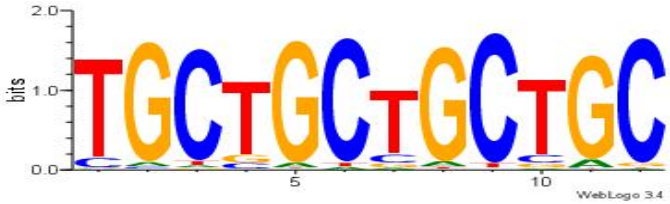

Best Matches for Motif ID 266 (Highest to Lowest)

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0655581

Alignment:

```
CGCCGCCGCCGC
TGCTGCTGCTGC
```

Original motif Consensus sequence: CGCCGCCGCCGC

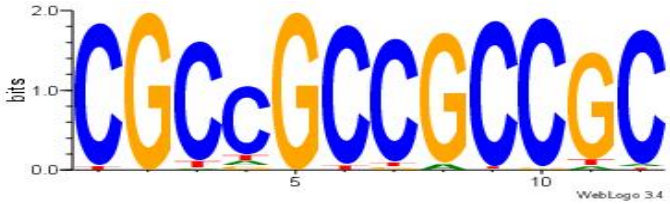

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

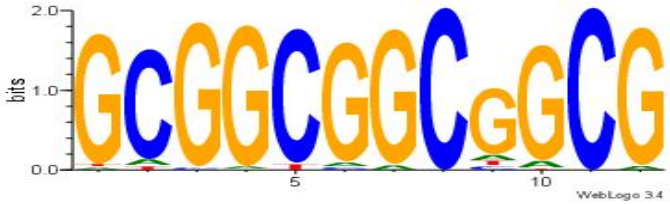

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0732114

Alignment:

```
MGCTGAGGCAGGAG
-GCAGCAGCAGCA-
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

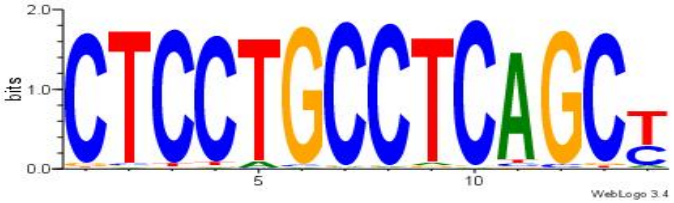

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

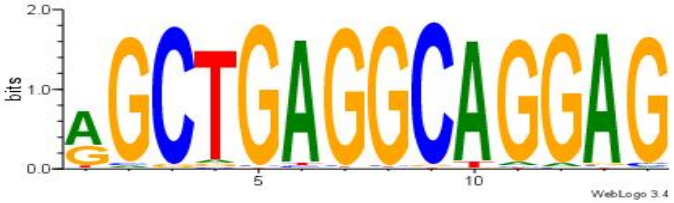

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0784217

Alignment:

```
TGCTGGAGGTCCACTCCAGA
TGCTGCTGCTGC--------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

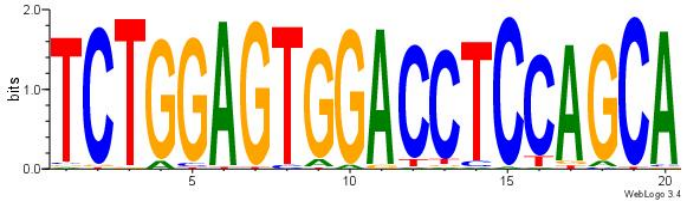

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

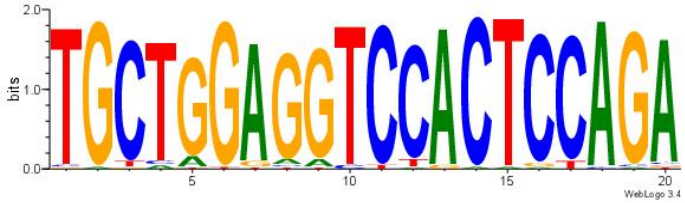

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 12
Similarity score: 0.0792404

Alignment:
GCGGCAGCAAGGC
-GCAGCAGCAGCA

Original motif Consensus sequence: GCCTTGCTGCCGC

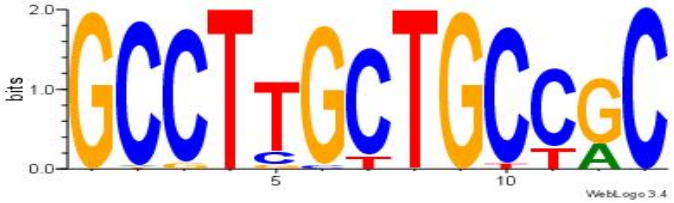

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.0798146

Alignment:
GGTCAGGATCATCAATAT
----GCAGCAGCAGCA--

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

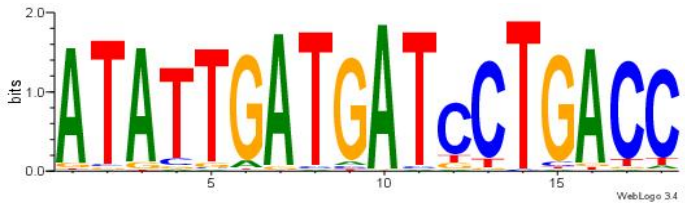

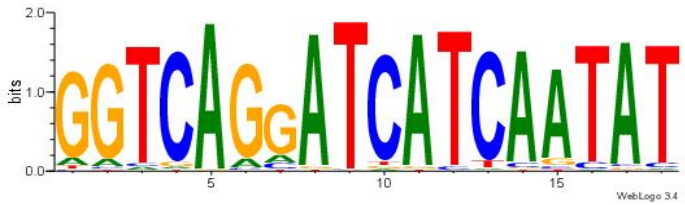

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0818088

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-GCAGCAGCAGCA-------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

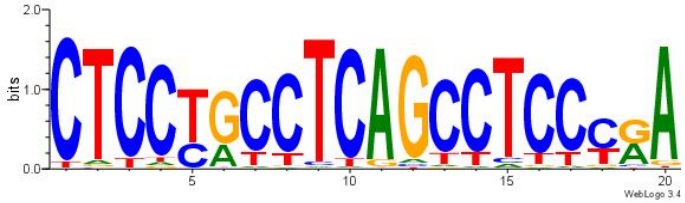

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

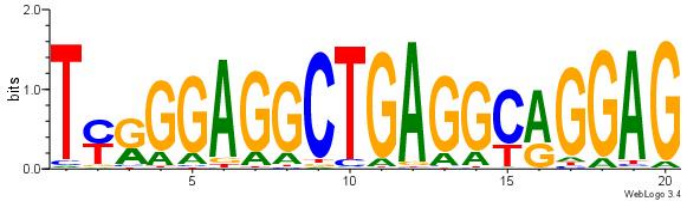

Dataset #:	1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0831194

Alignment:

```
AACAACAACAACAAMAA
-GCAGCAGCAGCA----
```

Original motif Consensus sequence: AACAACAACAACAAMAA

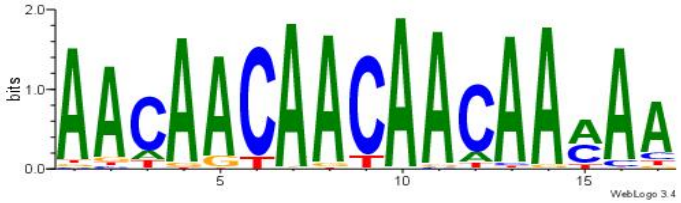

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

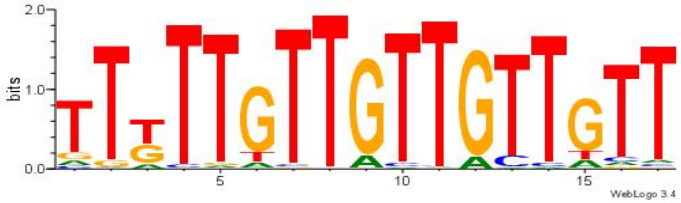

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0855091

Alignment:
AGGAACAGCTCCRGTCTAC
-GCAGCAGCAGCA------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

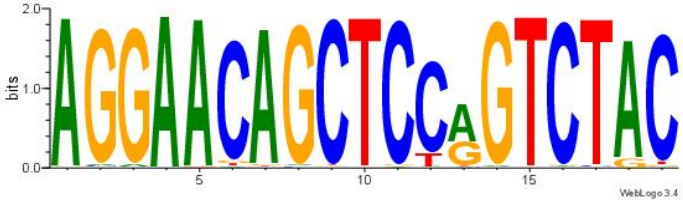

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

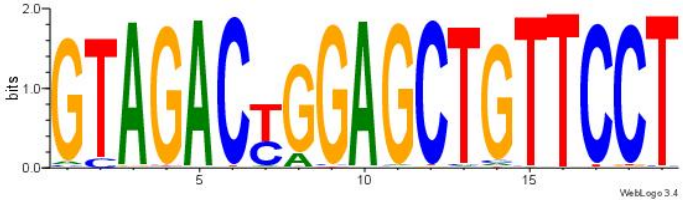

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0868251

Alignment:
AAAGTGCCGAGAKTGCAGC
---TGCTGCTGCTGC----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

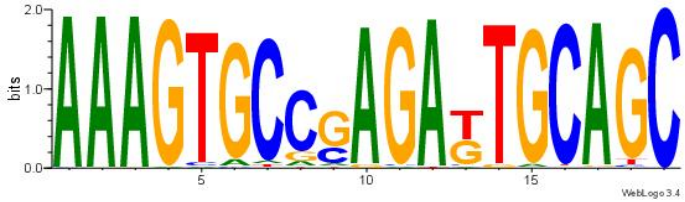

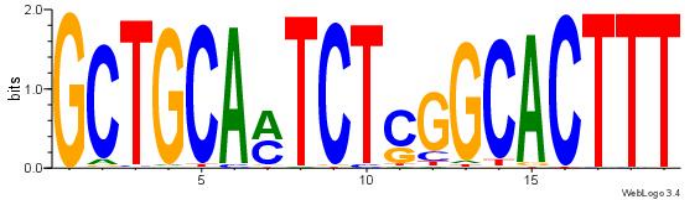

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0875914

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----TGCTGCTGCTGC--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

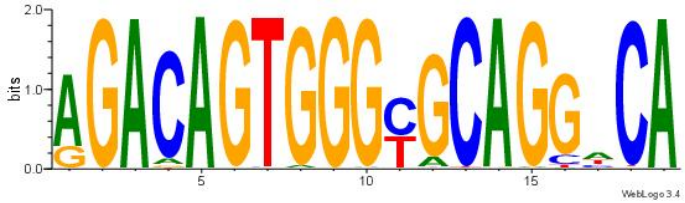

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

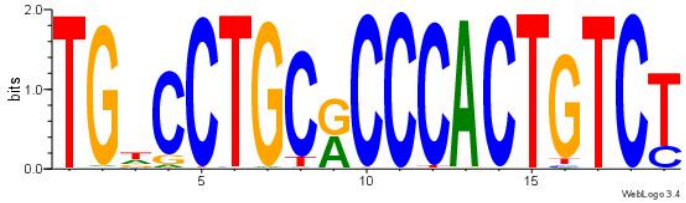

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0877111

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
--------GCAGCAGCAGCA
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

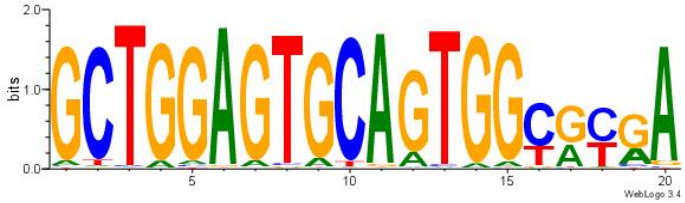

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

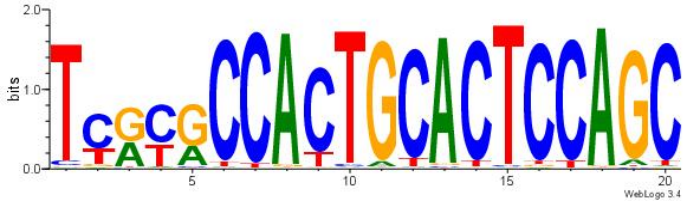

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0879585

Alignment:
GGAGCCGGCTCCCTCAGCTT
------TGCTGCTGCTGC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

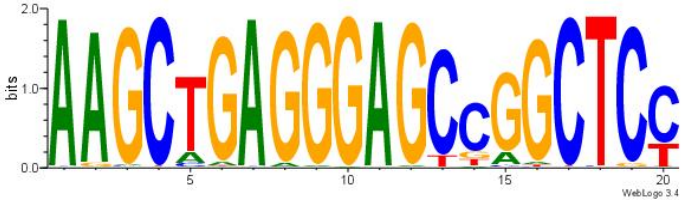

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

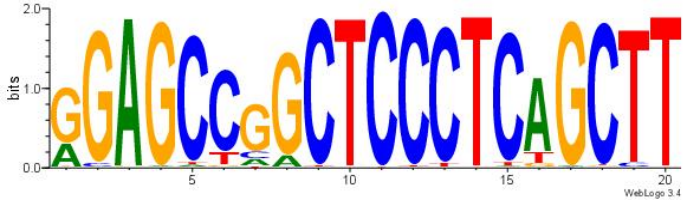

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0879646

Alignment:
GCTGGCCCKGGTGCTAAGC
--TGCTGCTGCTGC-----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

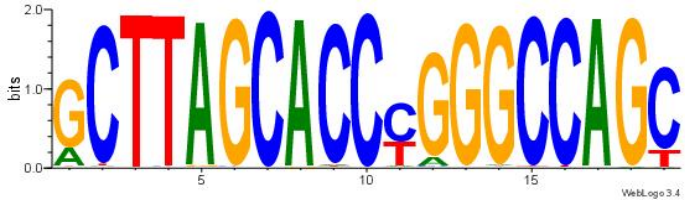

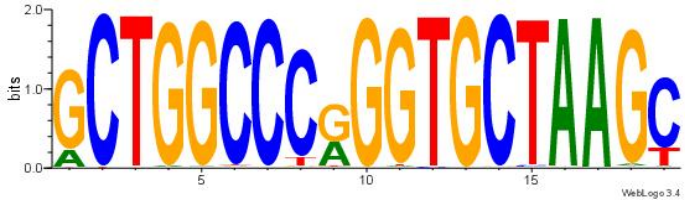

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0885202

Alignment:

```
CCGCACTCGGAGCRG
--GCAGCAGCAGCA-
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

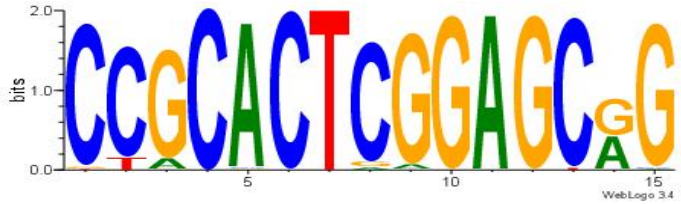

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

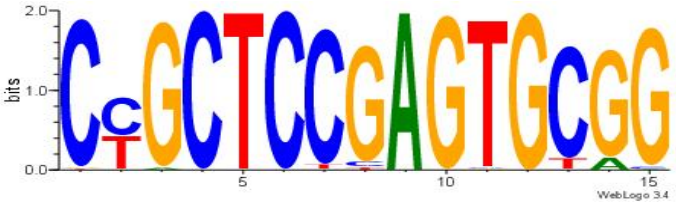

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.0886193

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
GCAGCAGCAGCA--------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

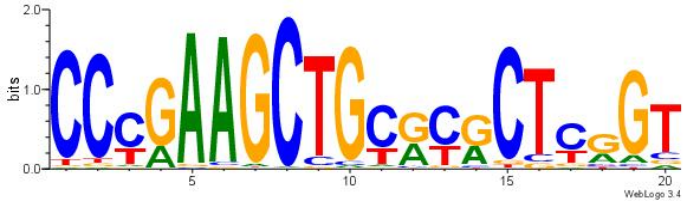

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

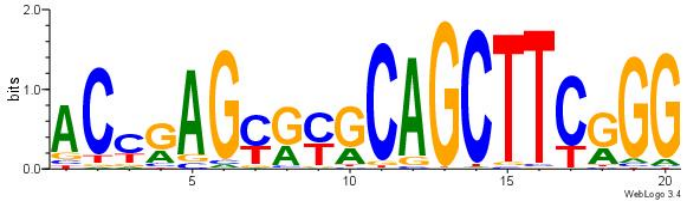

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0896942

Alignment:
AGCTCCCAGCGTGAGCGACG
-----GCAGCAGCAGCA---

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

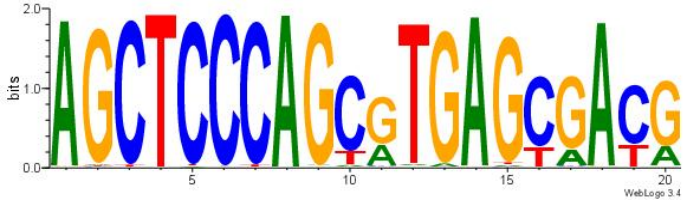

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

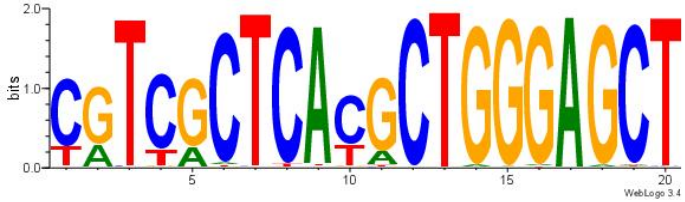

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 12
Similarity score: 0.090113

Alignment:
KCCGGGCCTTAGCTGCCTTC
----TGCTGCTGCTGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

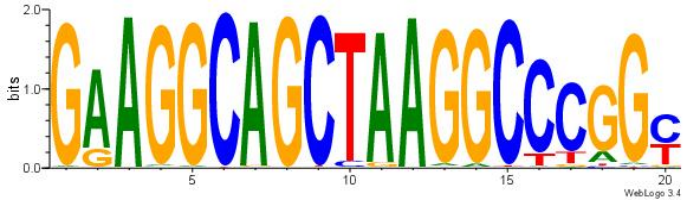

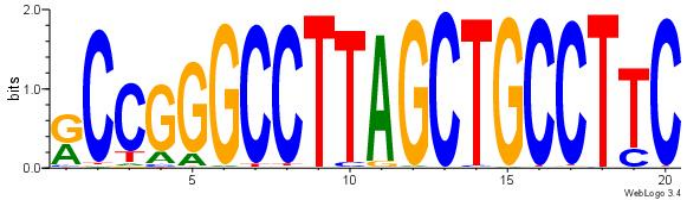

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0902461

Alignment:

```
GGCTGCGGAGGGTGTA
----TGCTGCTGCTGC
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

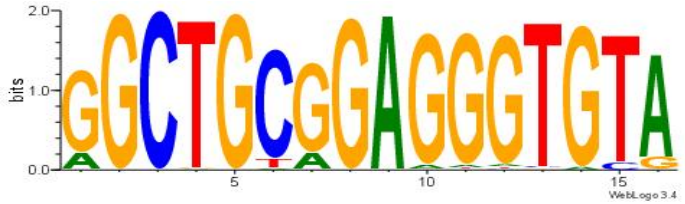

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

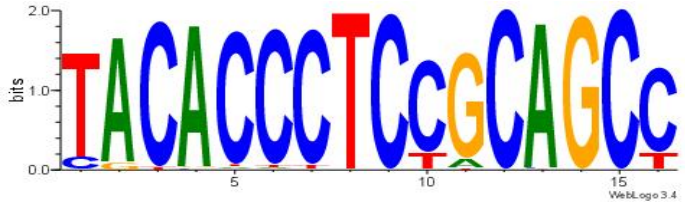

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.090336

Alignment:

```
HAGTGGKATTGCTGGATCAT
---TGCTGCTGCTGC-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

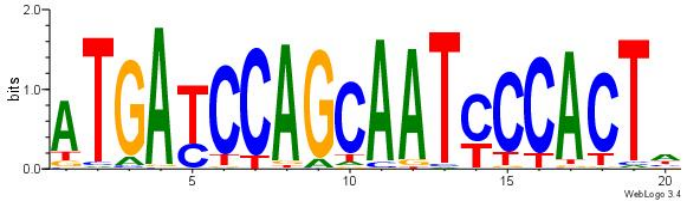

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

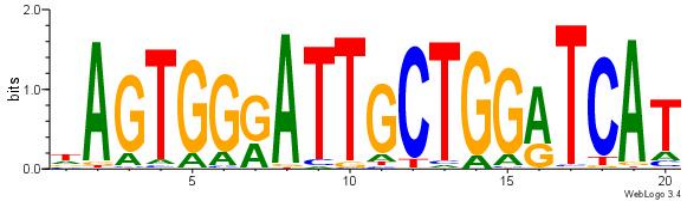

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0905729

Alignment:
GCAGGAGGTGAG
GCAGCAGCAGCA

Original motif Consensus sequence: CTCACCTCCTGC

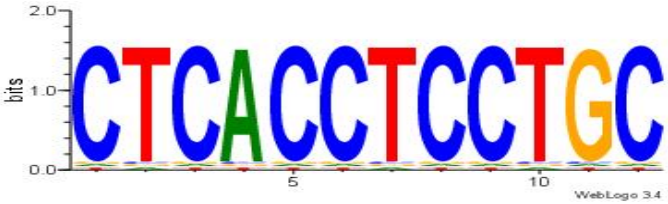

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

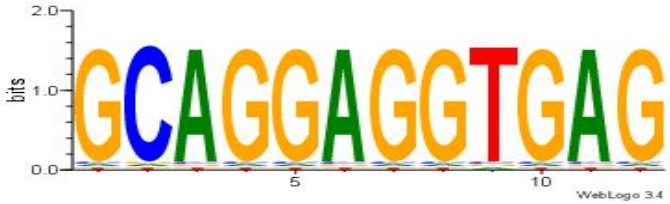

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.0908144

Alignment:
ATAGGAATGCTTGTGATTTT
-------TGCTGCTGCTGC-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

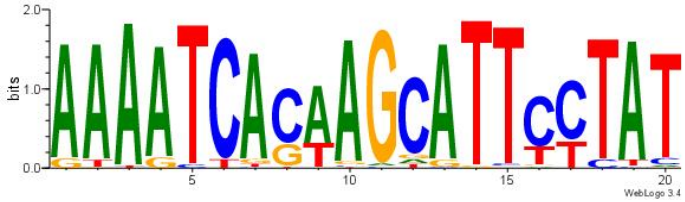

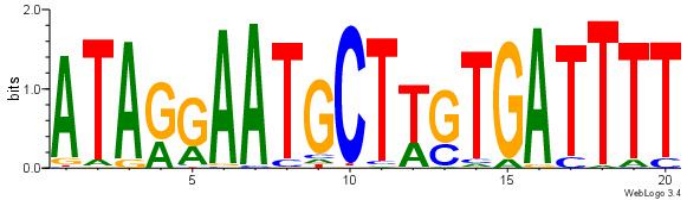

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0916921

Alignment:

```
TGCAGCCCCGGT
TGCTGCTGCTGC
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

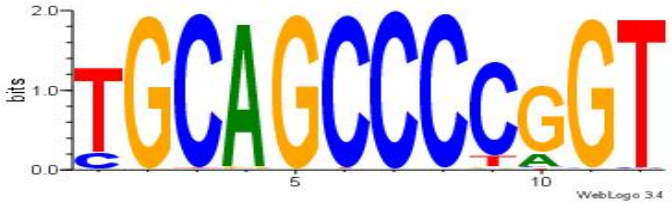

Dataset #:	1
Motif ID:	246

Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0931495

Alignment:

```
TCAGGAGTGAAGCTGC
----TGCTGCTGCTGC
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

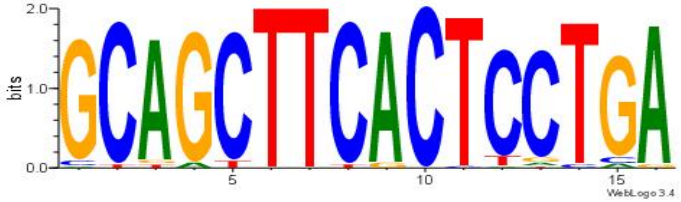

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

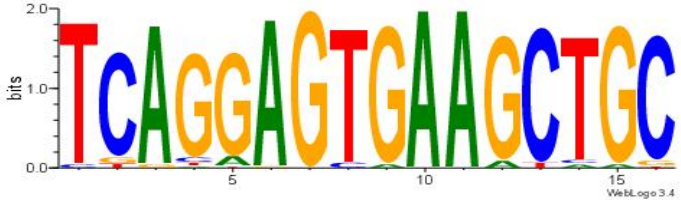

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0931841

Alignment:
CAAGCCTSKGCAATGGCAGG
--------GCAGCAGCAGCA

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

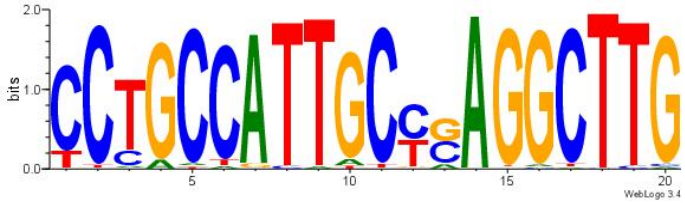

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

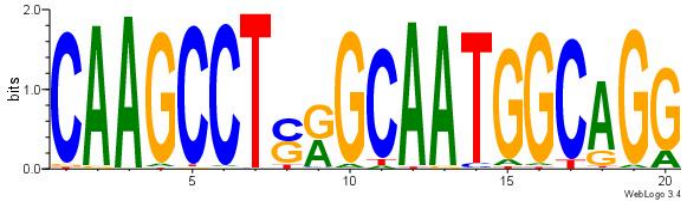

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0934928

Alignment:
AGATGCCAGCCAGAGCTCT
-----GCAGCAGCAGCA--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

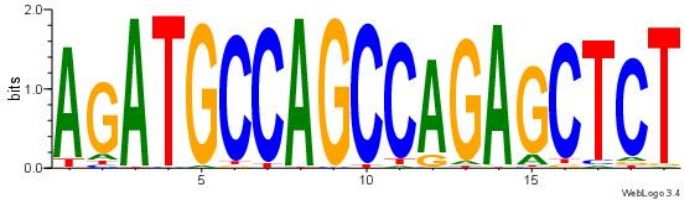

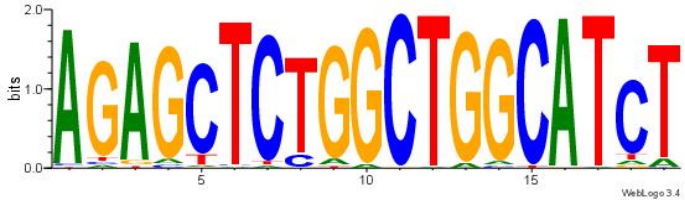

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0935407

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
--------GCAGCAGCAGCA
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

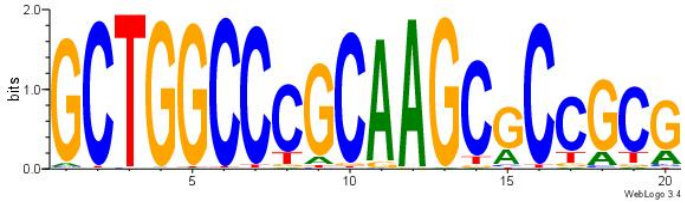

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

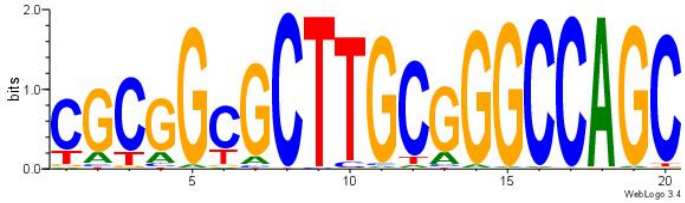

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0938784

Alignment:

```
CACCAGACTCAGGAGCCCAG
---GCAGCAGCAGCA-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

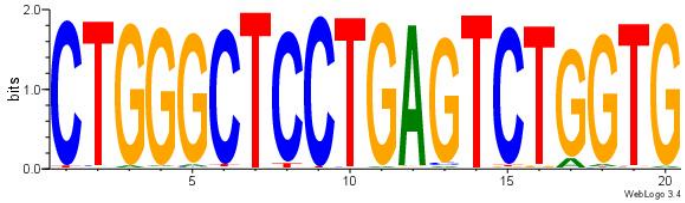

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

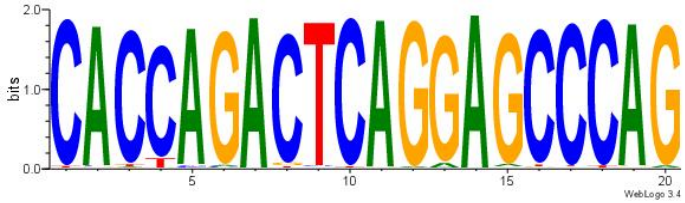

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0940952

Alignment:
HGCTCCTGTGSKCCC
---TGCTGCTGCTGC

Original motif Consensus sequence: HGCTCCTGTGSKCCC

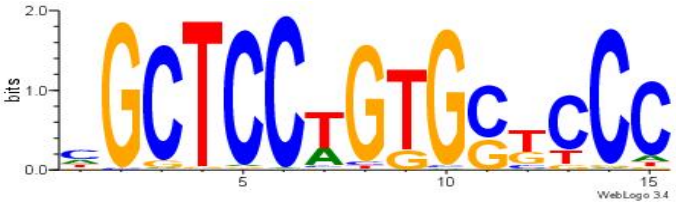

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

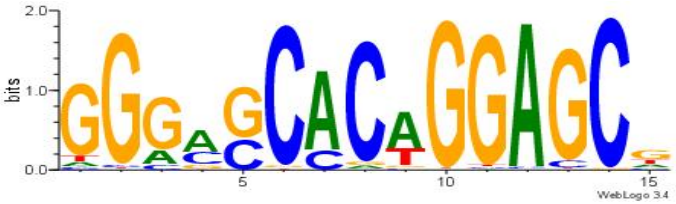

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 12
Similarity score: 0.0941328

Alignment:
AGCTCMKCCTCCTGTCAGAT
---TGCTGCTGCTGC-----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

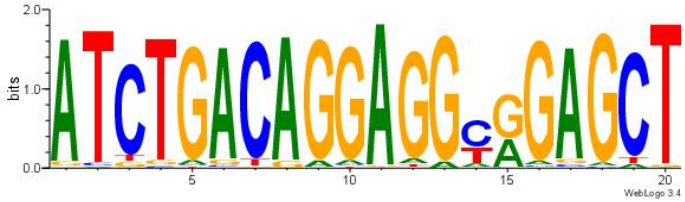

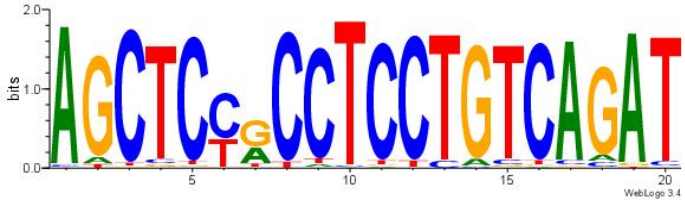

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0941525

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
--TGCTGCTGCTGC------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

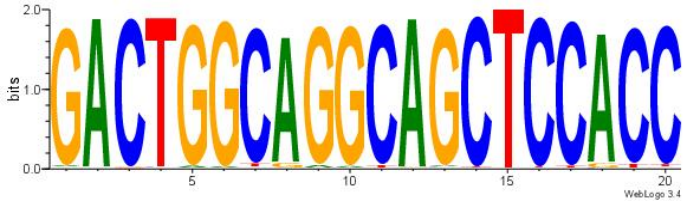

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

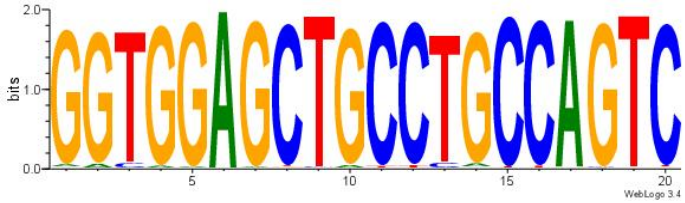

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.095612

Alignment:

```
AGGACTGAGGGTGCCYRGGG
--TGCTGCTGCTGC------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

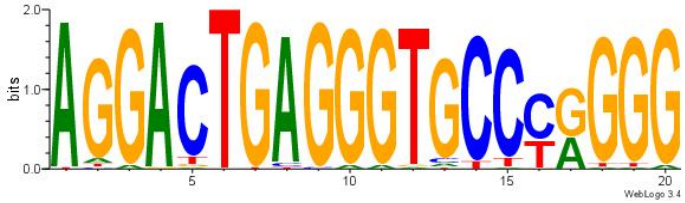

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

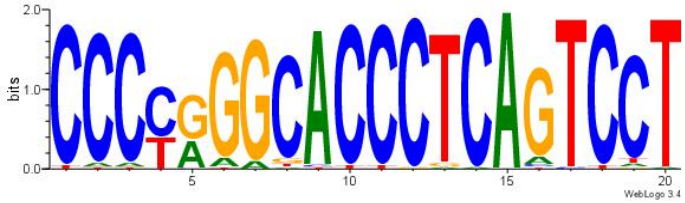

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0959368

Alignment:
CCACCACAGCTCAAGGAGGC
-----GCAGCAGCAGCA---

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

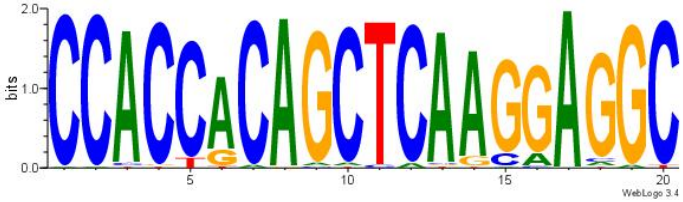

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

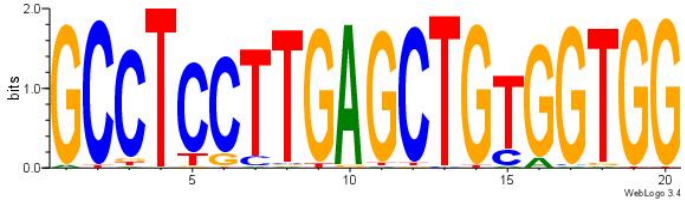

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0959673

Alignment:
ACAGGCTGTCCCAGGATTC
---GCAGCAGCAGCA----

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

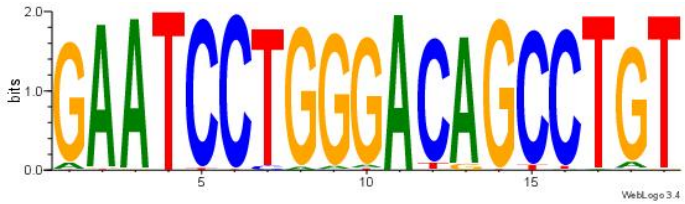

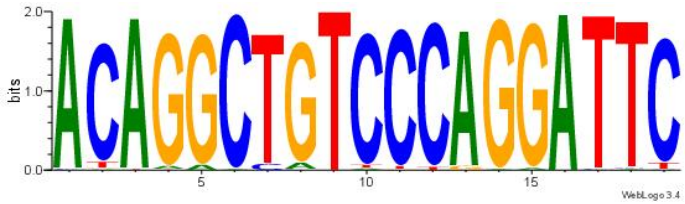

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0961041

Alignment:

```
CTATTGTGAATARTGCTGC
TGCTGCTGCTGC-------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

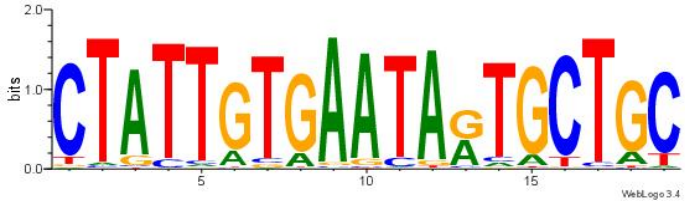

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

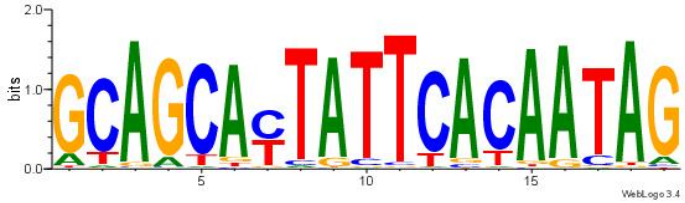

Dataset #: 1

Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.096424

Alignment:

```
TATTTACAGCTGCT
-TGCTGCTGCTGC-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

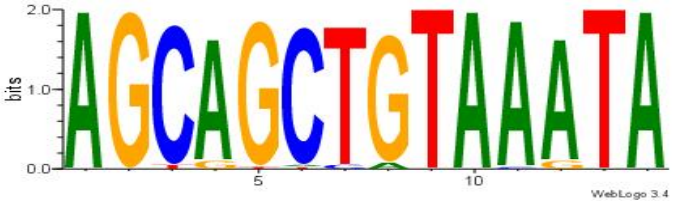

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

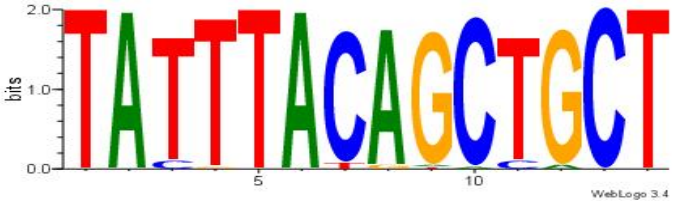

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0966937

Alignment:
ATCATTCTTATGCCTTTG
-TGCTGCTGCTGC-----

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

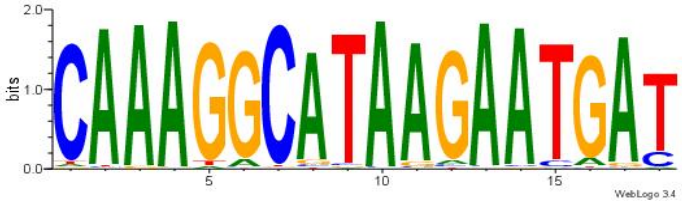

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

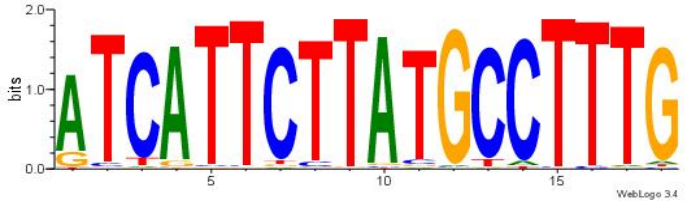

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.09704

Alignment:
CTGGGTCCCCCAGCAGTGCC
------GCAGCAGCAGCA--

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

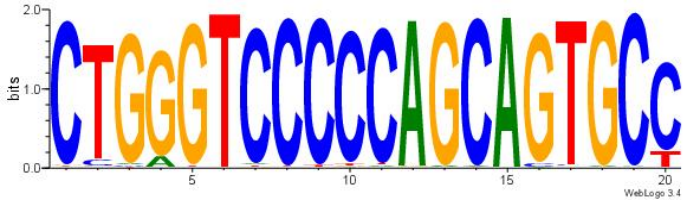

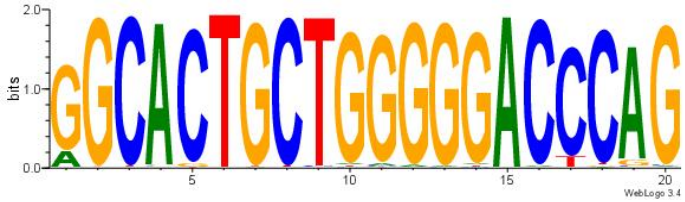

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0974428

Alignment:

```
CCACCAACAGTGTAY
GCAGCAGCAGCA---
```

Original motif Consensus sequence: CCACCAACAGTGTAY

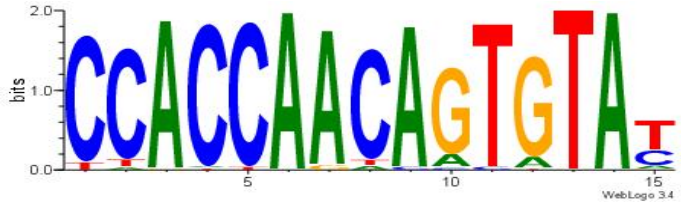

Reverse complement motif Consensus sequence: MTACACTGTTGGT

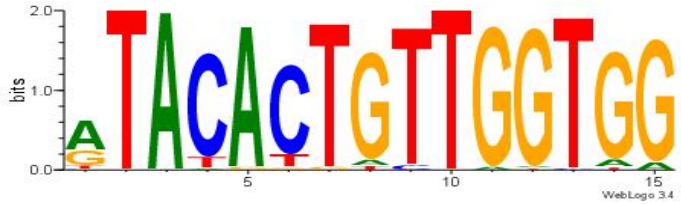

Dataset #:	1
Motif ID:	161

Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0977861

Alignment:

```
GAGGAGGRGGAGGDGGV
--GCAGCAGCAGCA---
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

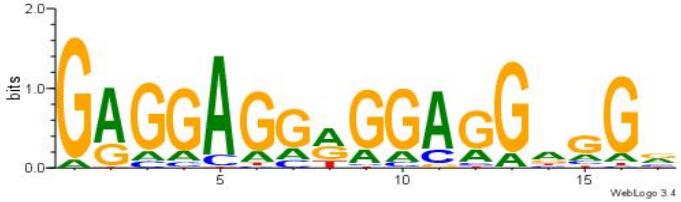

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

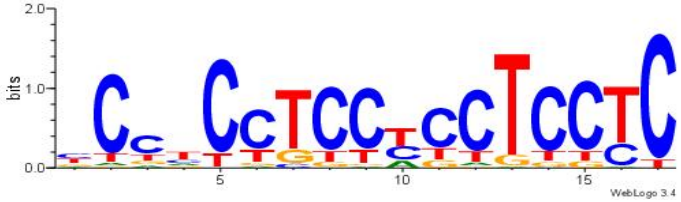

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0981697

Alignment:
GACATGAGCTGGCGCTTG
------TGCTGCTGCTGC

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

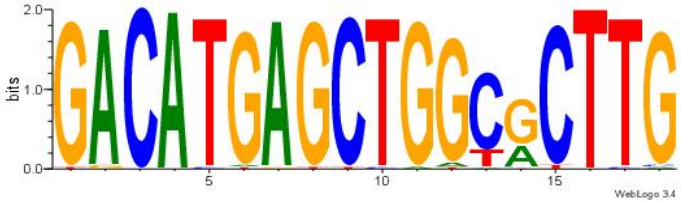

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

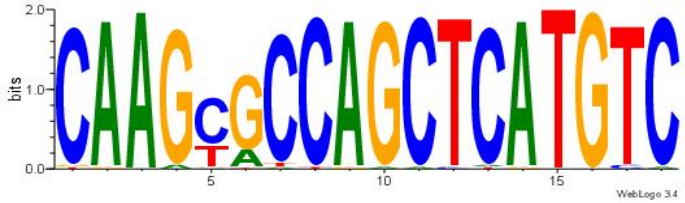

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.098472

Alignment:
TAGATAATAGCTCCAGCTTT
------GCAGCAGCAGCA--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

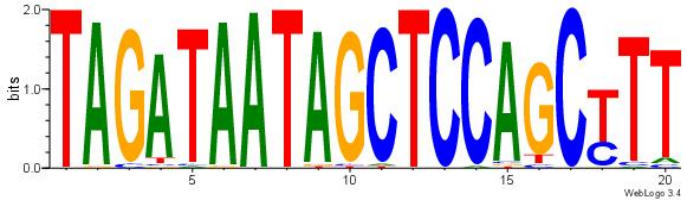

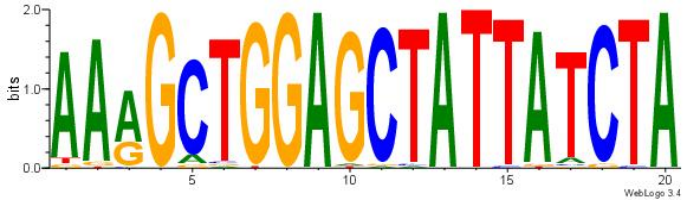

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0996958

Alignment:

```
CRTGAGCCACYGYRCCYGGC
----TGCTGCTGCTGC----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

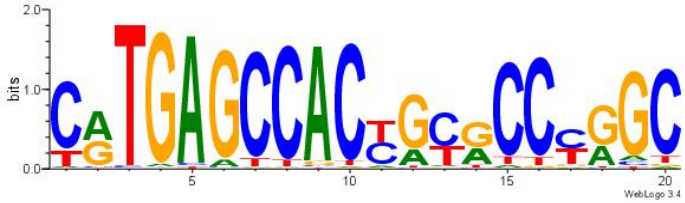

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

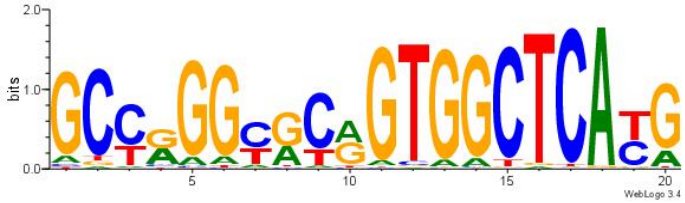

Dataset #:	1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.100423

Alignment:

```
ATACAATGGGGGTACAGRC
-TGCTGCTGCTGC------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

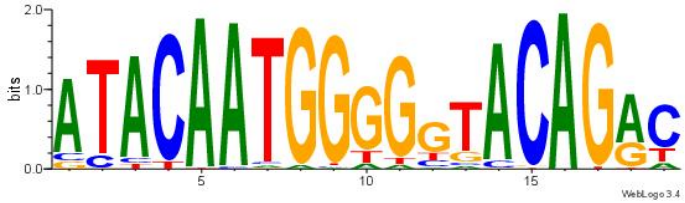

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

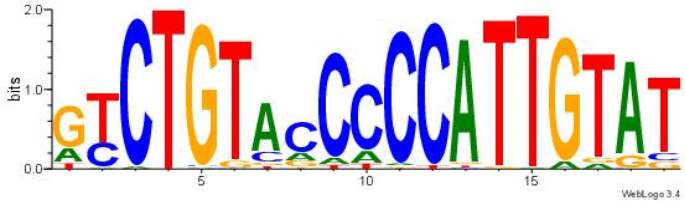

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.101592

Alignment:
GCTTCTGGTGAGGGC
--TGCTGCTGCTGC-

Original motif Consensus sequence: GCCCTCACCAGAAGC

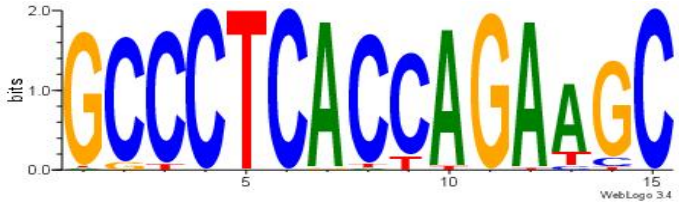

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

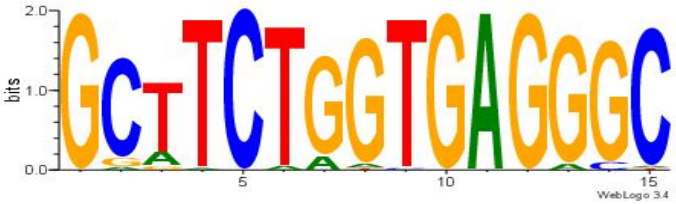

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.103429

Alignment:
GTAGCTGGGAYTACA
-TGCTGCTGCTGC--

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCT

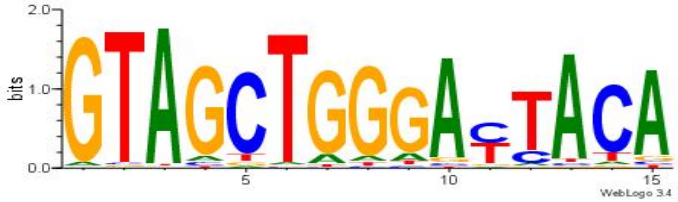

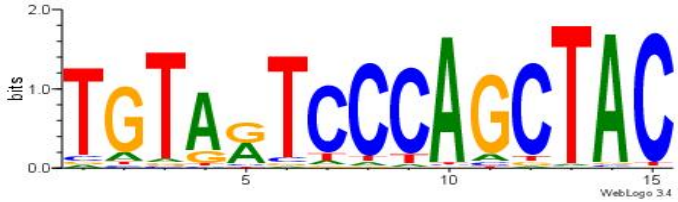

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.103479

Alignment:

```
TTGAGGAGGCAGTCTG
--GCAGCAGCAGCA--
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

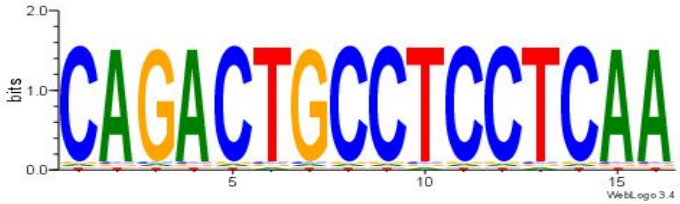

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

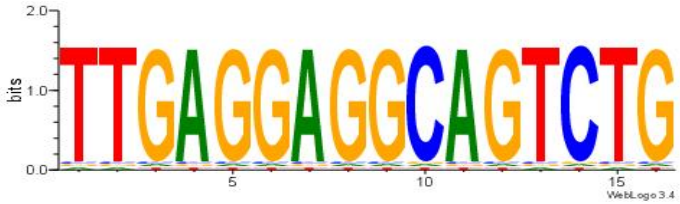

Dataset #: 1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.105012

Alignment:

```
TGGGGCTCCAGATG
TGCTGCTGCTGC--
```

Original motif Consensus sequence: CATCTGGAGCCCCA

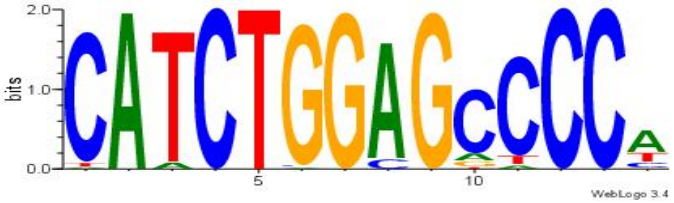

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

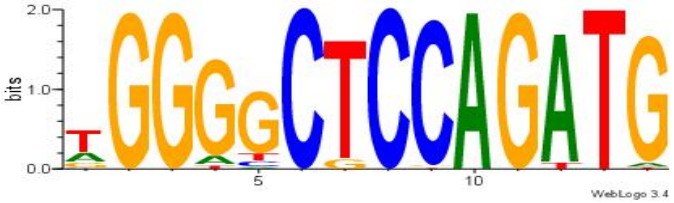

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.105163

Alignment:
TGATGGGTGCACCAAA
--GCAGCAGCAGCA--

Original motif Consensus sequence: TGATGGGTGCACCAAA

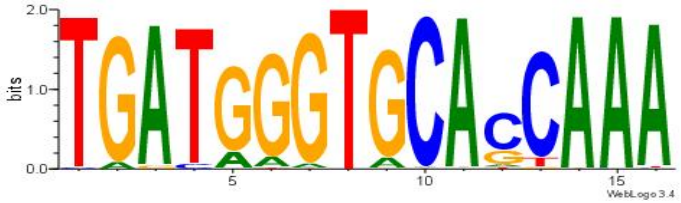

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

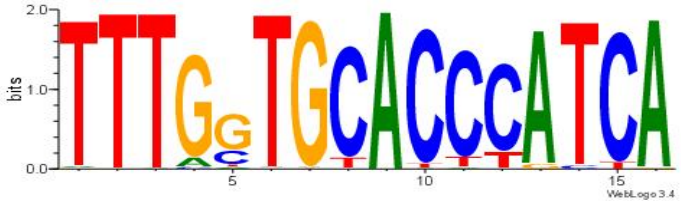

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.105514

Alignment:
TYTGTCMTTTTGTGACTGGC
-------TGCTGCTGCTGC-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

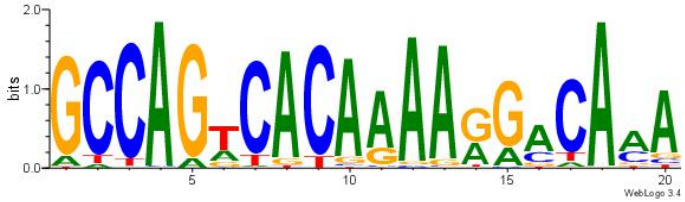

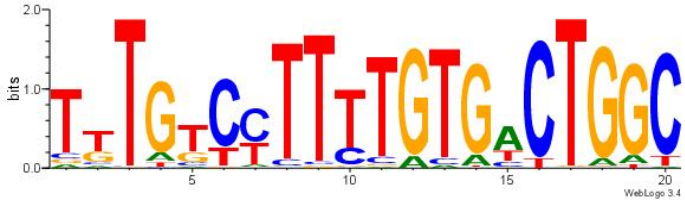

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.1056

Alignment:

```
GGMGCKGTGGCTC
-GCAGCAGCAGCA
```

Original motif Consensus sequence: GAGCCACYGCRCC

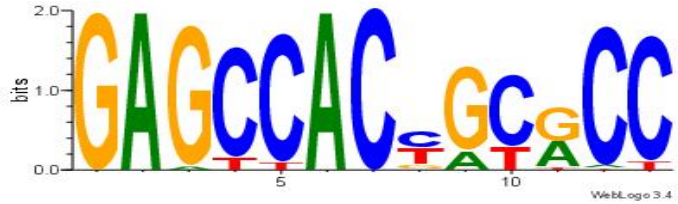

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #: 1 Motif ID: 267 Motif name: Motif 267

Original motif Consensus sequence: ATGGACTTGAGA

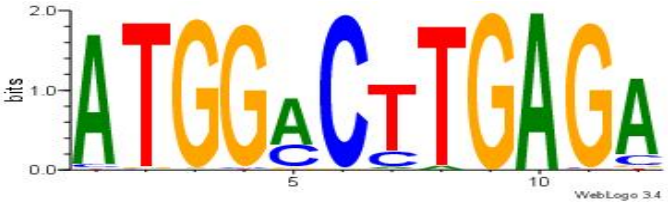

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

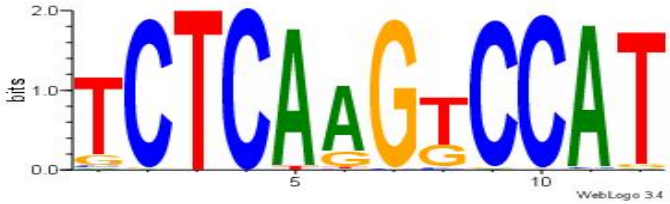

Best Matches for Motif ID 267 (Highest to Lowest)

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0822148

Alignment:

```
CTGAGGACCTGAGGTCRTA
--ATGGACTTGAGA-----
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

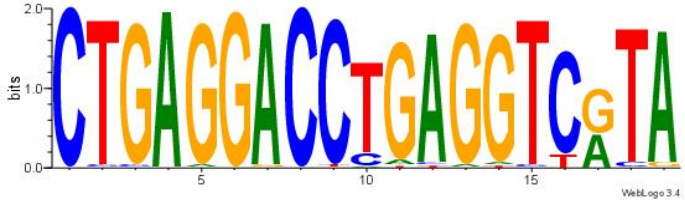

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

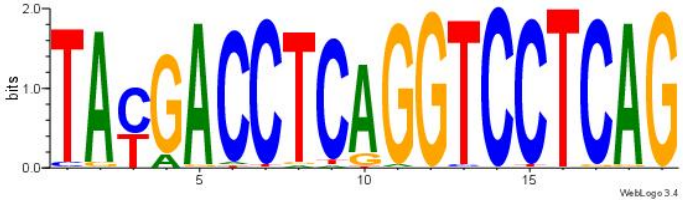

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0832965

Alignment:

```
KACGGGCTTAARAAACGGC
------ATGGACTTGAGA-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

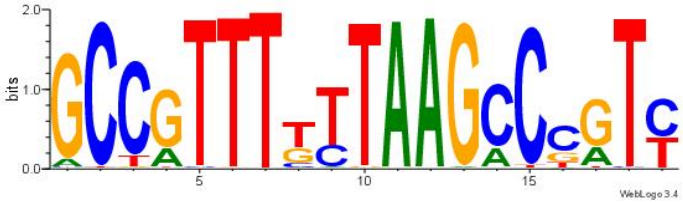

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

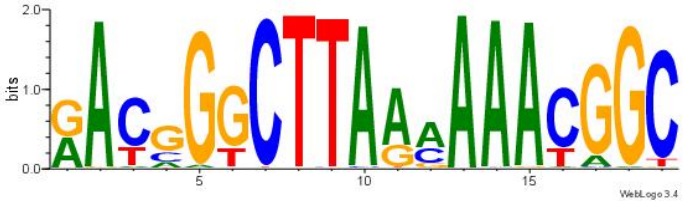

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8

Number of overlap: 12
Similarity score: 0.0857476

Alignment:
AGGAACAGCTCCRGTCTAC
TCTCAAGTCCAT-------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

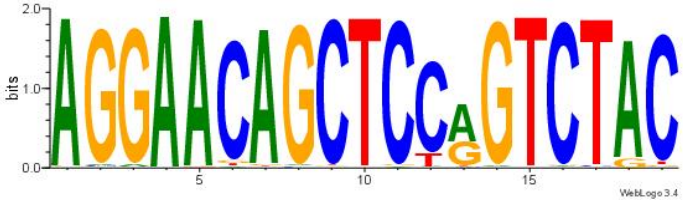

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

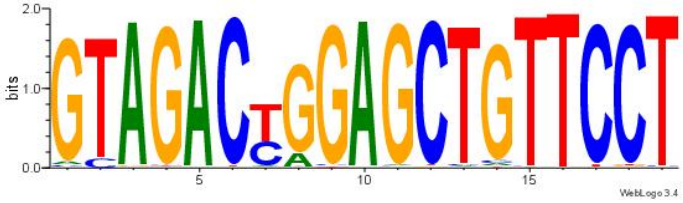

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0886223

Alignment:
AGTTGTAATTGGGAGACTT
--ATGGACTTGAGA-----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

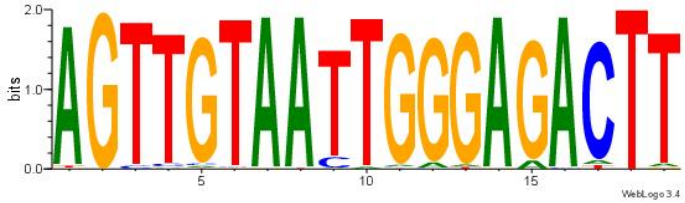

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

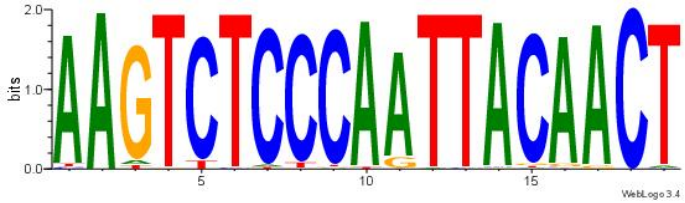

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0887226

Alignment:

```
AAGGGACATTKGAG
-ATGGACTTGAGA-
```

Original motif Consensus sequence: AAGGGACATTKGAG

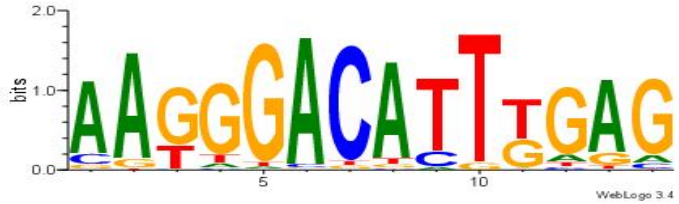

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

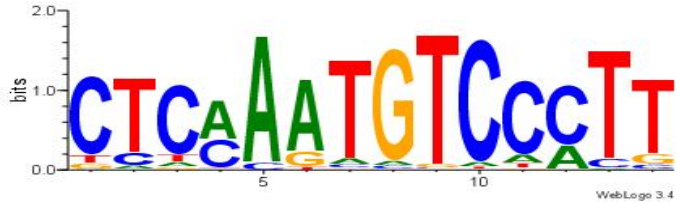

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.090039

Alignment:

```
CCTAGATTTCAGARGATGT
-ATGGACTTGAGA------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

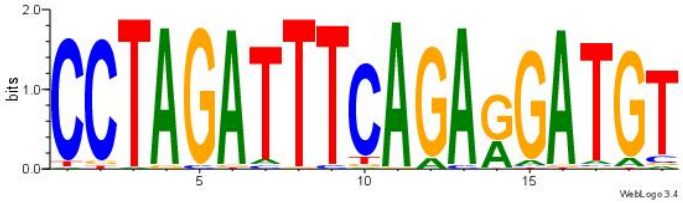

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

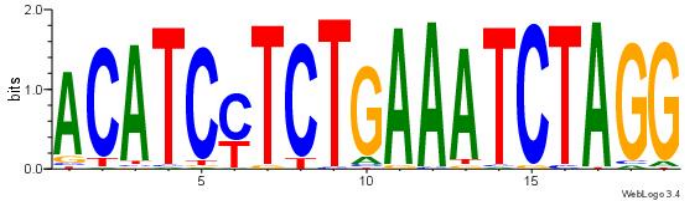

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 12
Similarity score: 0.0905042

Alignment:
ACTTTGGACTGTGGACTTTT
-----ATGGACTTGAGA---

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

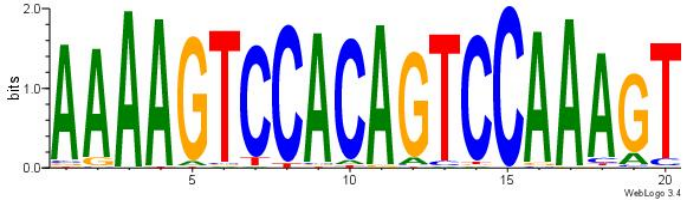

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

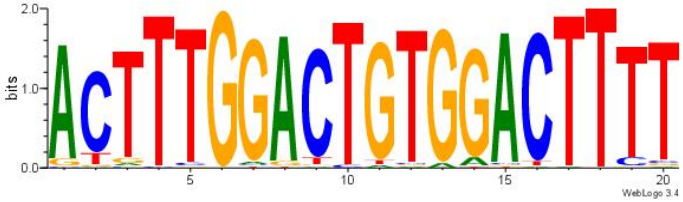

Dataset #: 1
Motif ID: 320
Motif name: Motif 320
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.091317

Alignment:
CATCTGGAGCCCCA
--TCTCAAGTCCAT

Original motif Consensus sequence: CATCTGGAGCCCCA

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

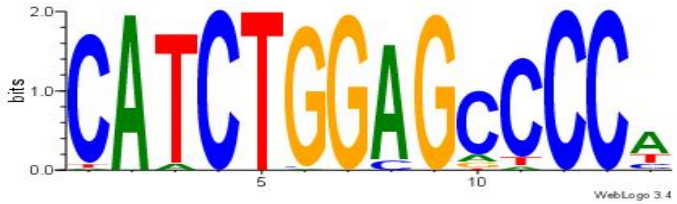

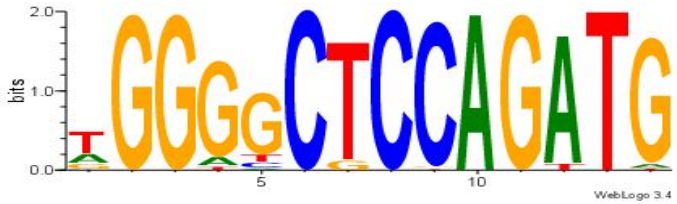

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0920977

Alignment:

```
CAAAGTCTTAACTCATT
-----TCTCAAGTCCAT
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

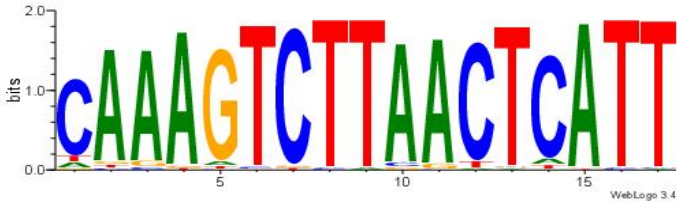

Dataset #:	1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0927859

Alignment:

```
ACAAGGCAAGTCCCTTCY
---TCTCAAGTCCAT---
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

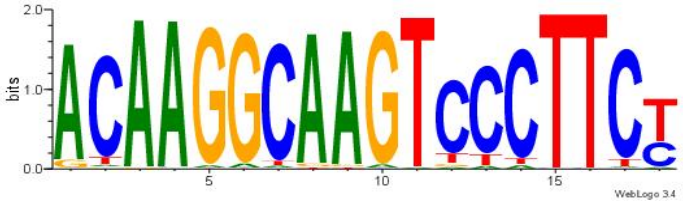

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

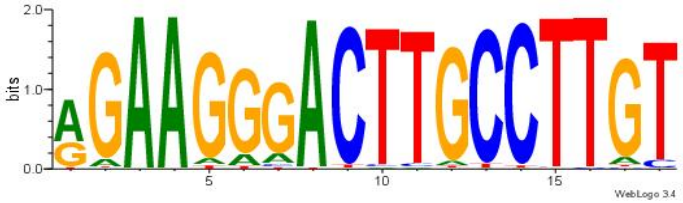

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.0948608

Alignment:
CCTMACAATCATGG
TCTCAAGTCCAT--

Original motif Consensus sequence: CCATGATTGTRAGG

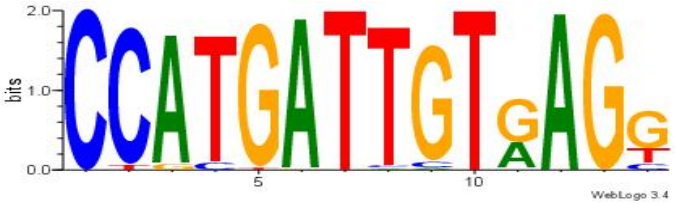

Reverse complement motif Consensus sequence: CCTMACAATCATG

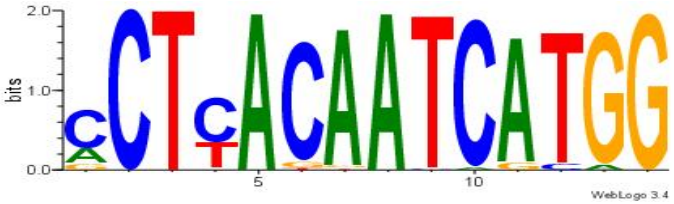

Dataset #: 1
Motif ID: 365
Motif name: Motif 365
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0950408

Alignment:
AGCTCCGGTCTAC
-TCTCAAGTCCAT

Original motif Consensus sequence: AGCTCCGGTCTAC

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

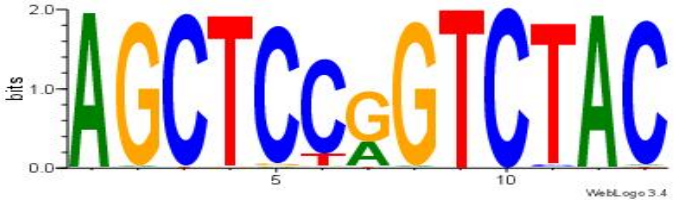

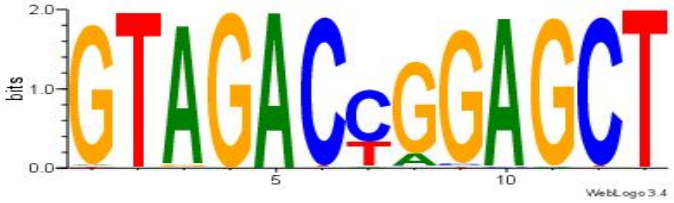

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0955779

Alignment:

```
ATCATTCTTATGCCTTTG
-----TCTCAAGTCCAT-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

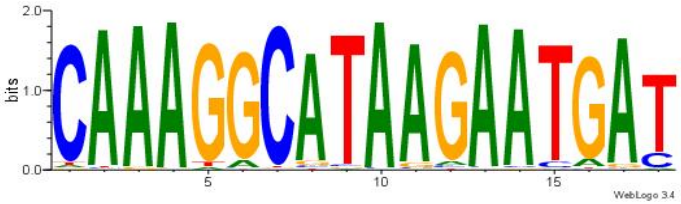

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

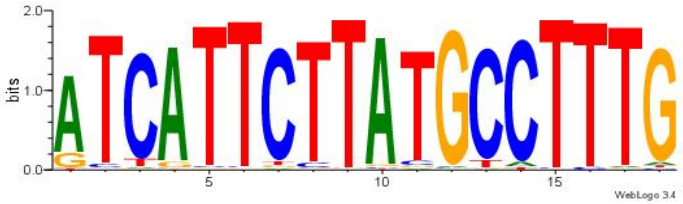

Dataset #: 1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.095911

Alignment:

```
ATTCAASATGAGATTTGGG
------ATGGACTTGAGA-
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

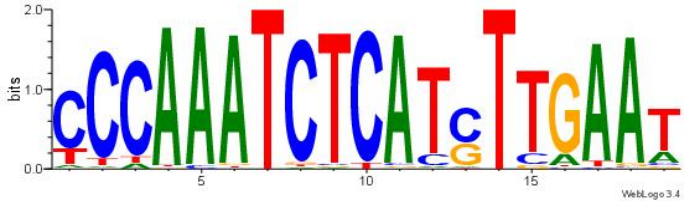

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

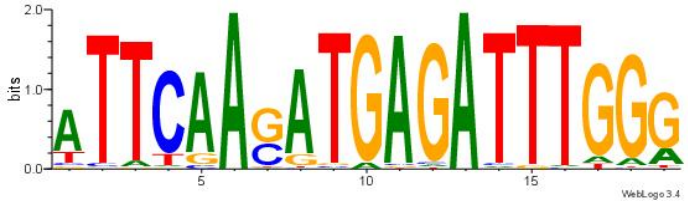

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0960427

Alignment:
AGGTCCTTCAGGAGGTATTC
ATGGACTTGAGA--------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

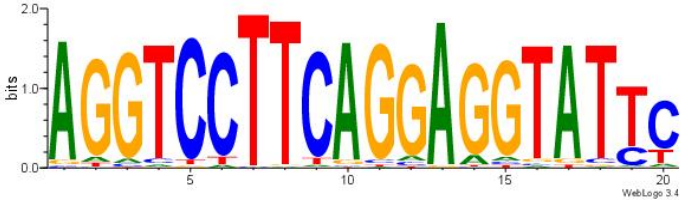

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

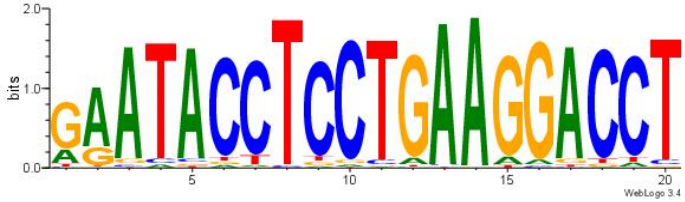

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0962787

Alignment:
ATATTGATGATCCTGACC
------ATGGACTTGAGA

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

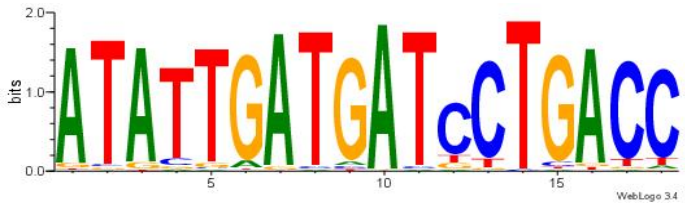

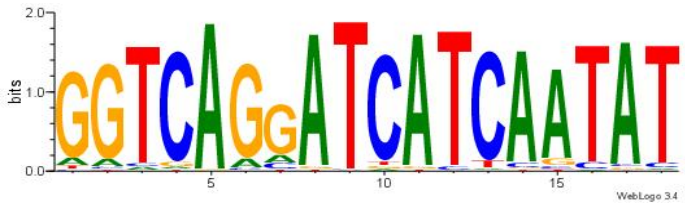

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0963613

Alignment:

```
TTACAGGCTCATA
TCTCAAGTCCAT-
```

Original motif Consensus sequence: TATGAGCCTGTAA

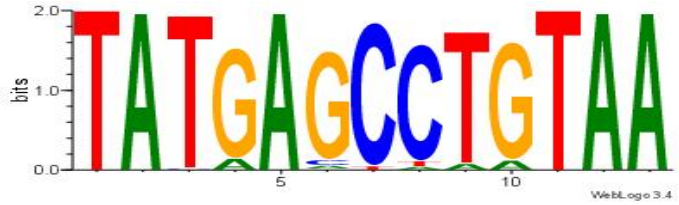

Reverse complement motif Consensus sequence: TTACAGGCTCATA

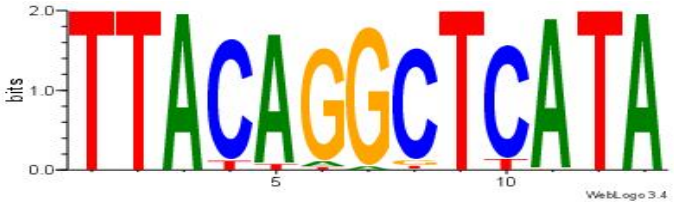

Dataset #:	1
Motif ID:	236

Motif name:	Motif 236
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0973713

Alignment:

```
ATCTGAGGTACCG
TCTCAAGTCCAT-
```

Original motif Consensus sequence: ATCTGAGGTACCG

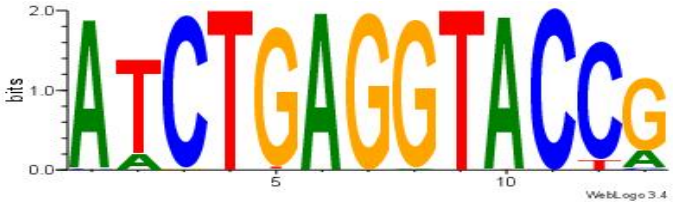

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

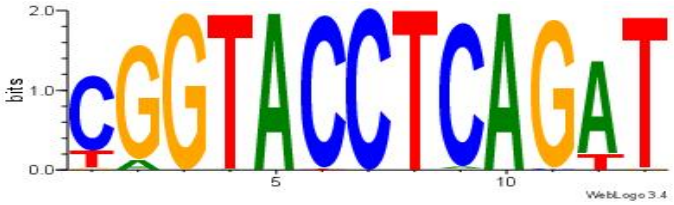

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0974889

Alignment:
AATGAKATCATGTCYTTTGC
-----TCTCAAGTCCAT---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

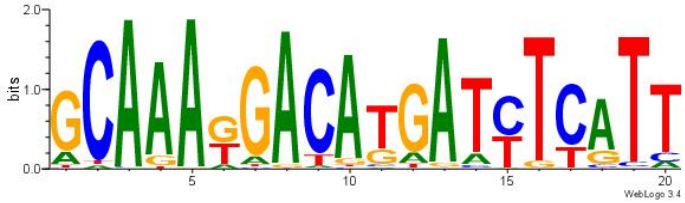

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

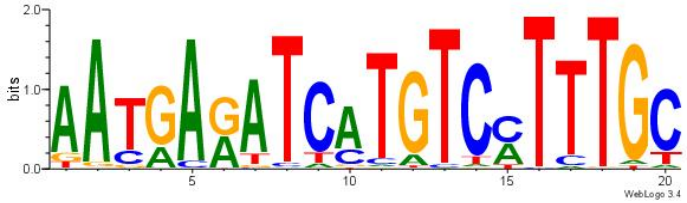

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0974978

Alignment:
CACCAGACTCAGGAGCCCAG
--------TCTCAAGTCCAT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

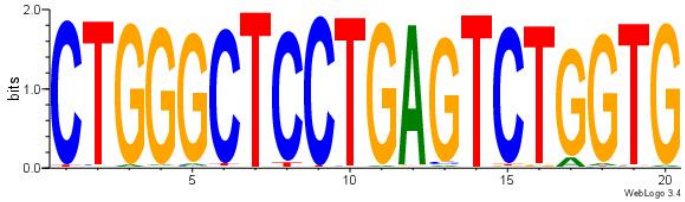

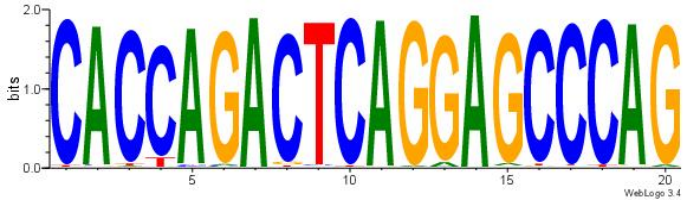

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0976307

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
-------TCTCAAGTCCAT-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

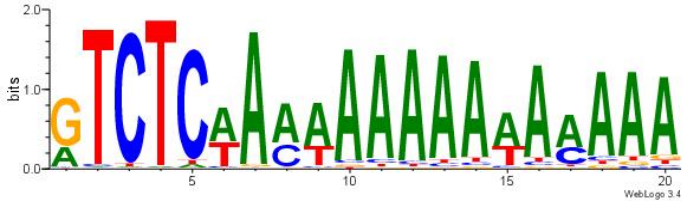

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

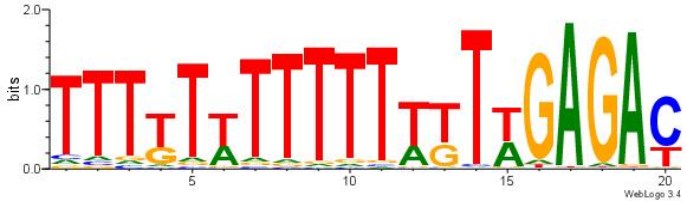

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0976835

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-----ATGGACTTGAGA---
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

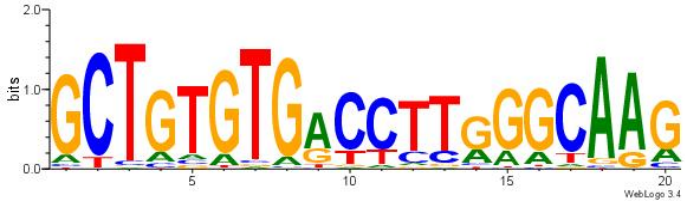

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

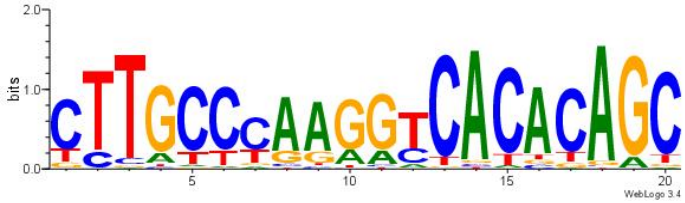

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0979097

Alignment:
TTTTCACATGCCTTTCT
---TCTCAAGTCCAT--

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

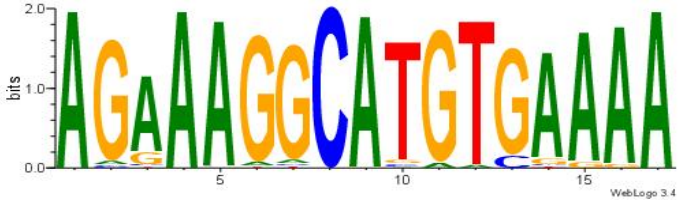

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

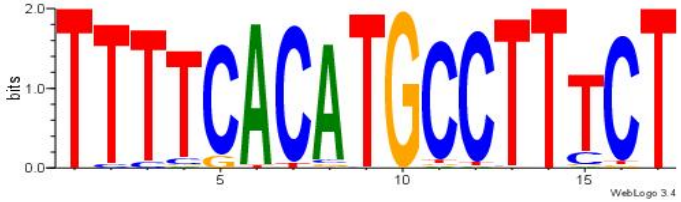

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0979802

Alignment:
CAAGCGCCAGCTCATGTC
---TCTCAAGTCCAT---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

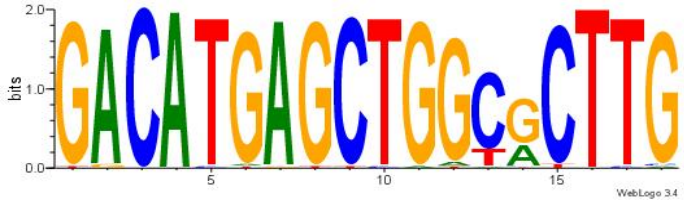

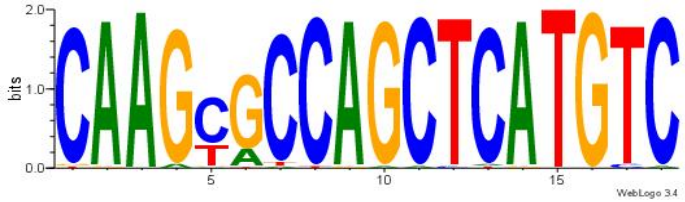

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0980237

Alignment:

```
CTTTCTGGGCTGGCCAAGG
---ATGGACTTGAGA----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

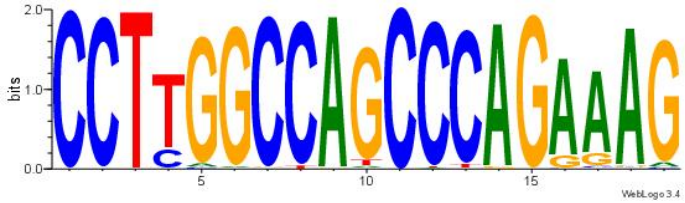

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

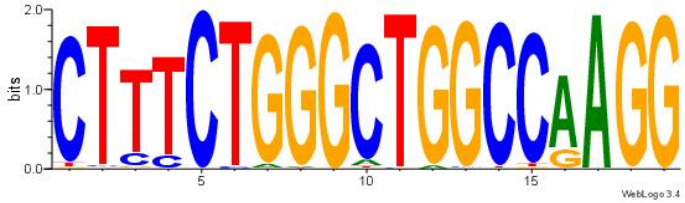

Dataset #:	1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0986465

Alignment:

```
GATCACGAGGTCAGGAG
---TCTCAAGTCCAT--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

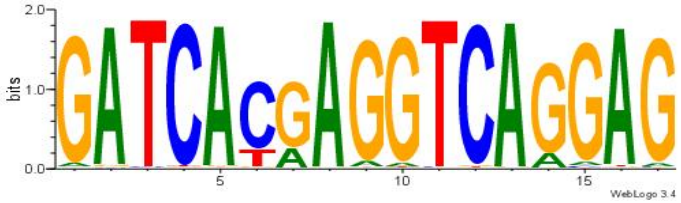

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

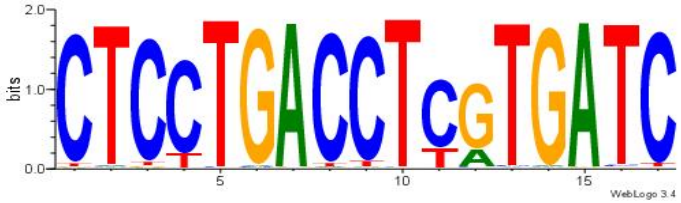

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0987037

Alignment:
ACACATCACAAAGCAGTTTC
---TCTCAAGTCCAT-----

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

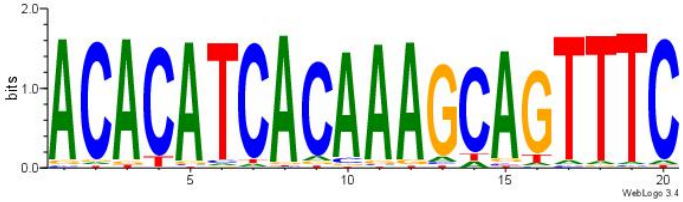

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

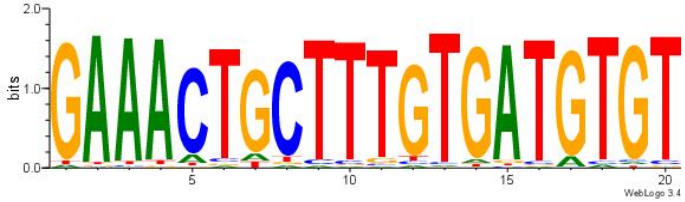

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0988083

Alignment:
CAACATGGATGRARCTGGAG
--------ATGGACTTGAGA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

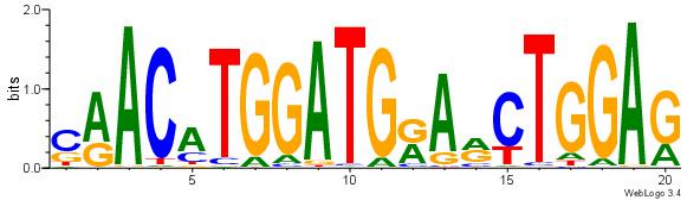

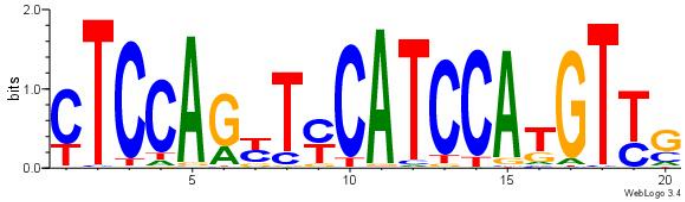

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0992909

Alignment:

```
GKGGCAGTGAGGC
-ATGGACTTGAGA
```

Original motif Consensus sequence: GCCTCACTGCCRC

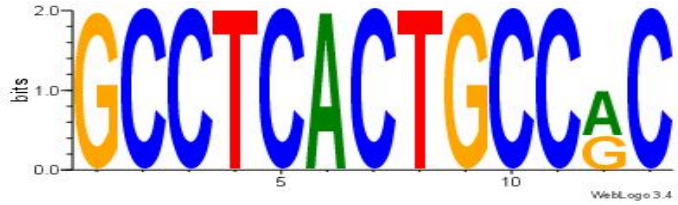

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

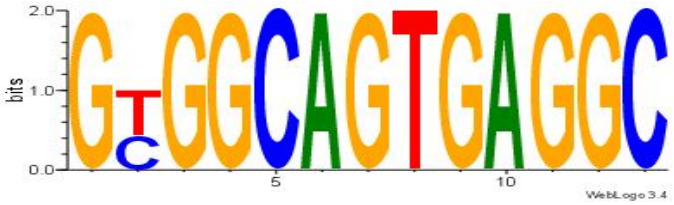

Dataset #:	1
Motif ID:	322

Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0994902

Alignment:

```
AGGGCCTTTGCASWTGC
ATGGACTTGAGA-----
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

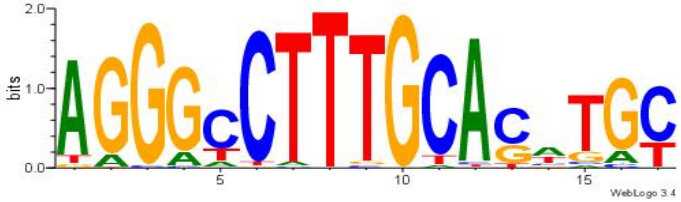

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

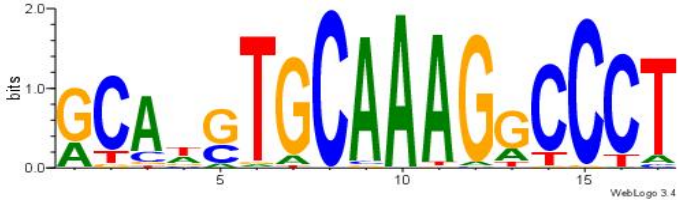

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.10017

Alignment:
GCACATGTAYCCYAGAACTT
----ATGGACTTGAGA----

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

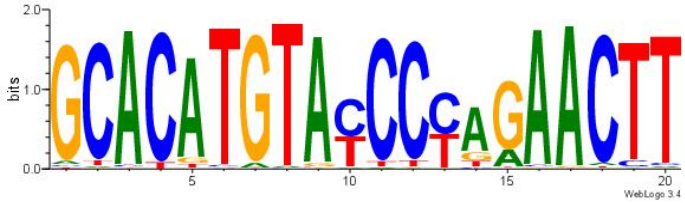

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

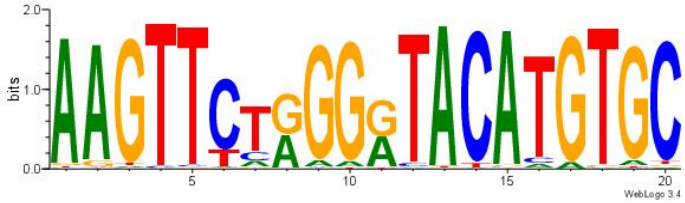

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.100862

Alignment:
GCACATGTCGCT
TCTCAAGTCCAT

Original motif Consensus sequence: AGCGACATGTGC

Reverse complement motif Consensus sequence: GCACATGTCGCT

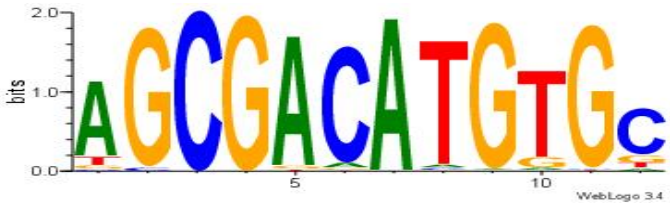

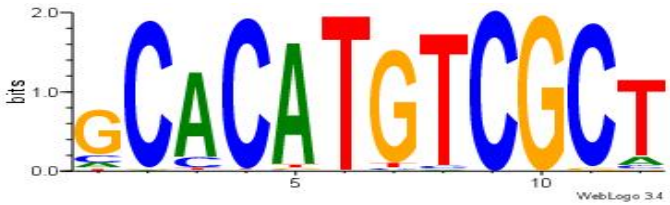

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.101915

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
--------TCTCAAGTCCAT
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

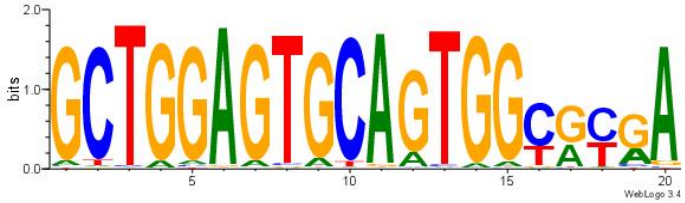

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

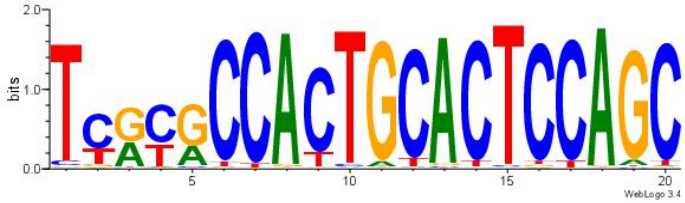

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.102115

Alignment:

```
GGATTTMKGACTTGCATGGG
-----TCTCAAGTCCAT---
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

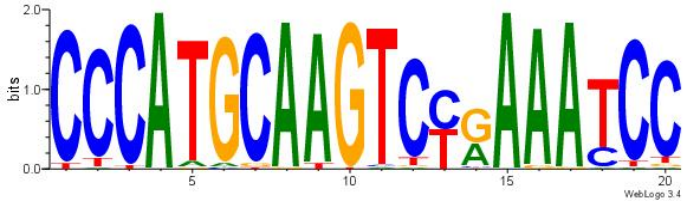

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

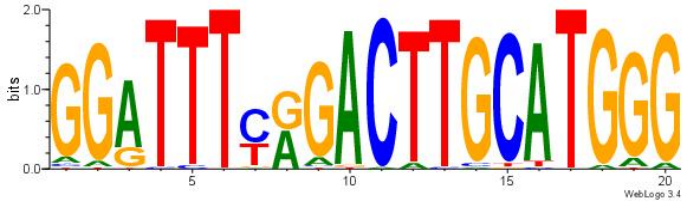

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.103519

Alignment:
CCCTCACTGCCCGGGG
---TCTCAAGTCCAT-

Original motif Consensus sequence: CCCTCACTGCCCGGGG

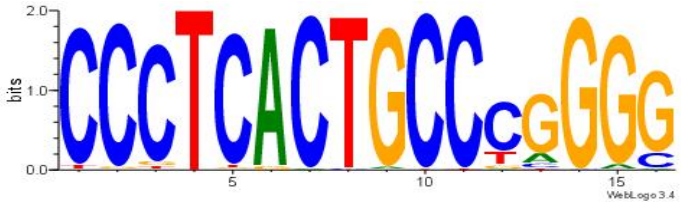

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

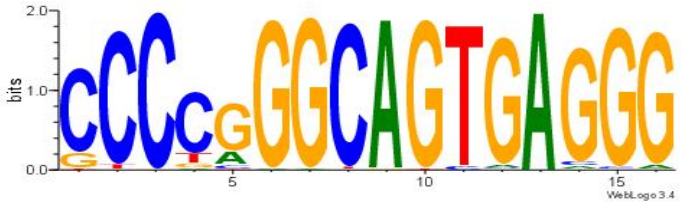

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.103821

Alignment:
CATTTGGGAGCCCATTGA
---TCTCAAGTCCAT---

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

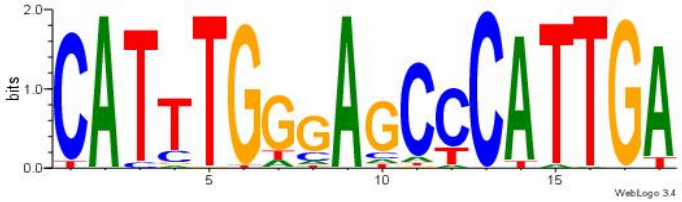

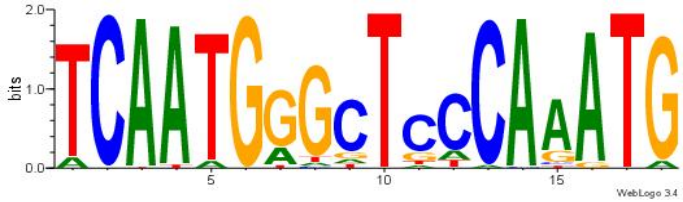

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.10385

Alignment:

```
MTCCTCCAGACCCCAGAATG
--TCTCAAGTCCAT------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

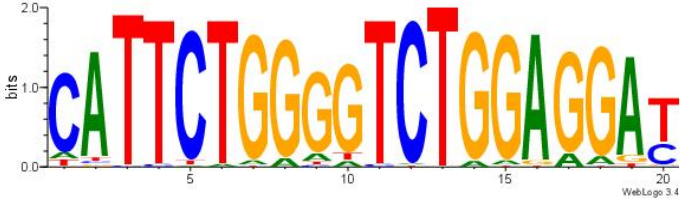

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

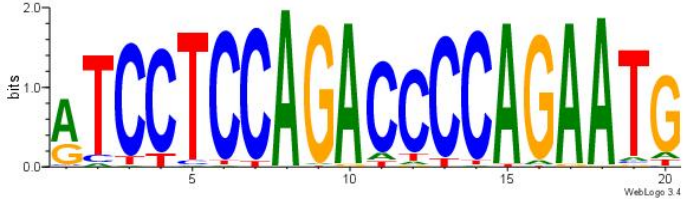

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.104242

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
--------TCTCAAGTCCAT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

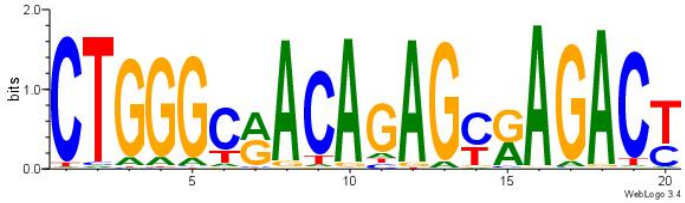

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

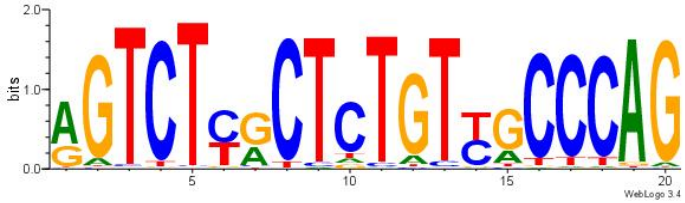

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.10459

Alignment:
TCTGGAGTGGACCTCCAGCA
-ATGGACTTGAGA-------

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

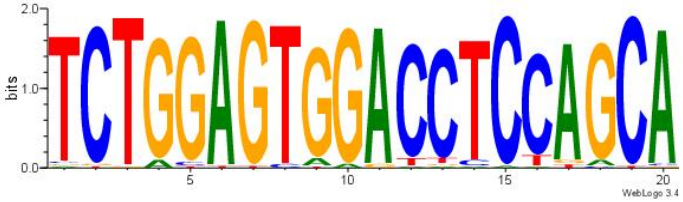

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

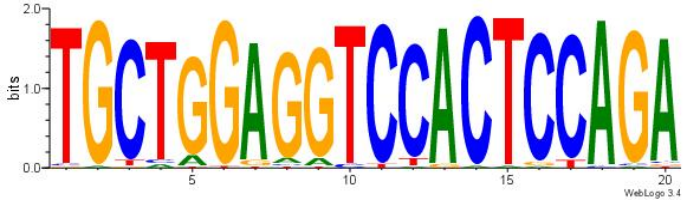

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.104631

Alignment:
CTGGCCCTCAATGGTTAAAC
ATGGACTTGAGA--------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

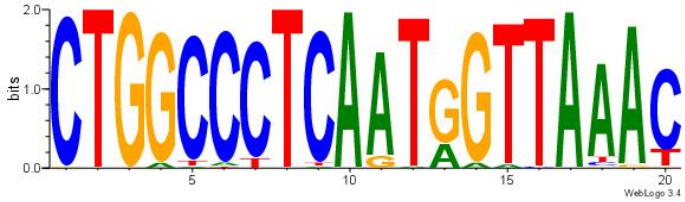

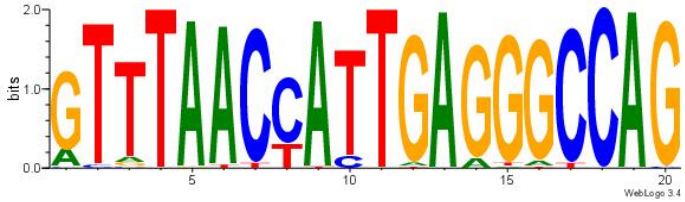

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.104679

Alignment:

```
GCTCTCAATTGGTCATT
--TCTCAAGTCCAT---
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

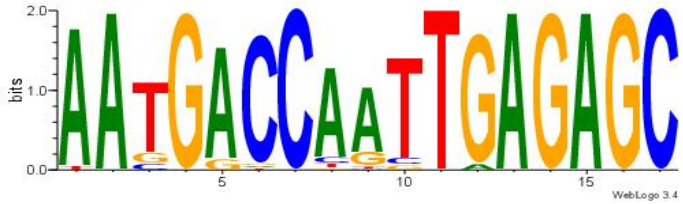

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

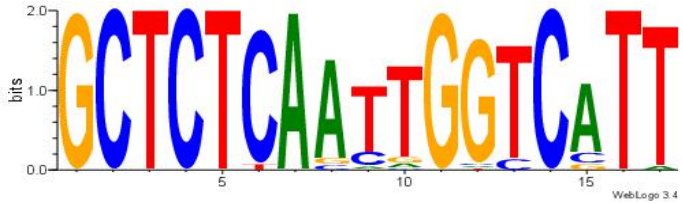

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.105399

Alignment:

```
ATGTGGAGGTGGAAGACAGT
------ATGGACTTGAGA--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

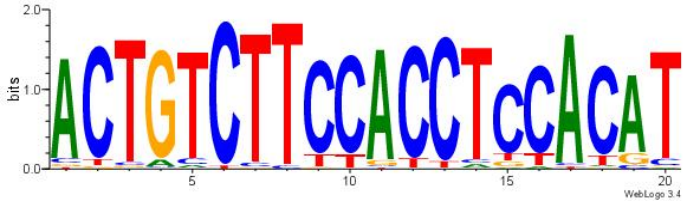

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

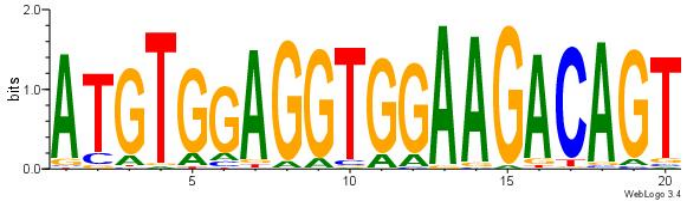

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.10599

Alignment:
GAAATTGACTTCCTCCT
---ATGGACTTGAGA--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

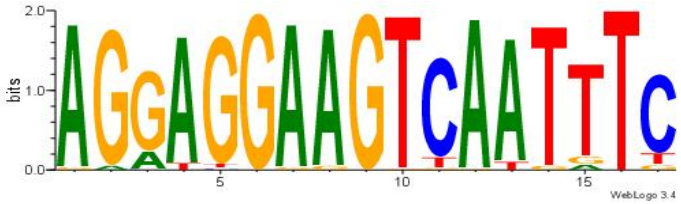

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

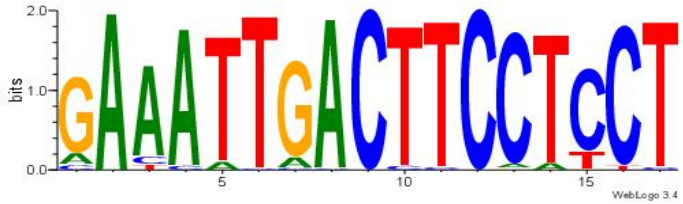

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.106049

Alignment:
GCTGGAGTGCAGTG
TCTCAAGTCCAT--

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

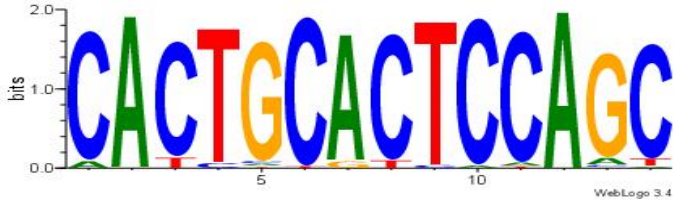

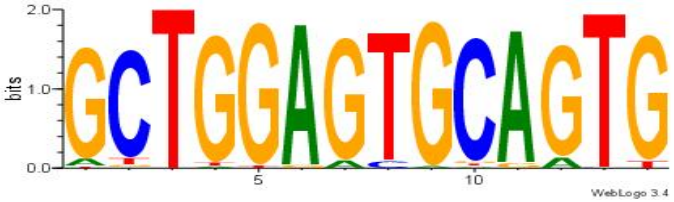

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.106653

Alignment:

```
CCTTTGACTCCATGTC
-TCTCAAGTCCAT---
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

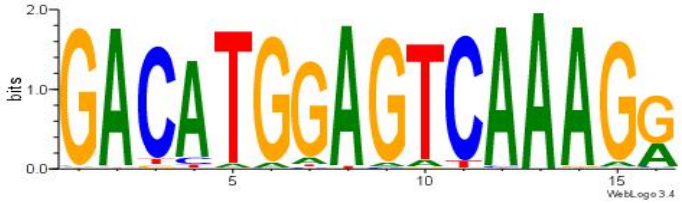

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

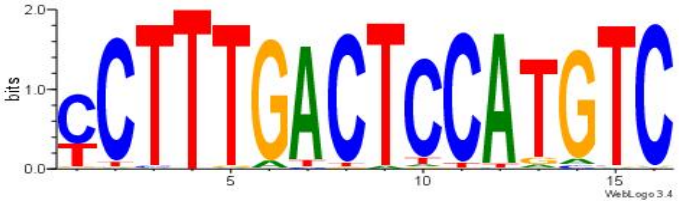

Dataset #: 1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.10684

Alignment:

```
GCCTCAGTTTCCY
TCTCAAGTCCAT-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

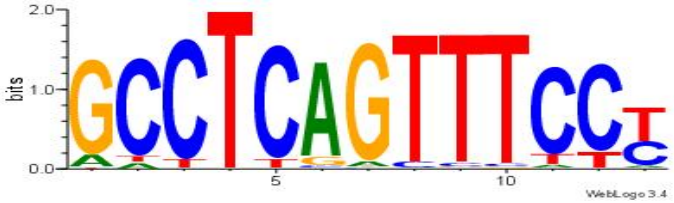

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

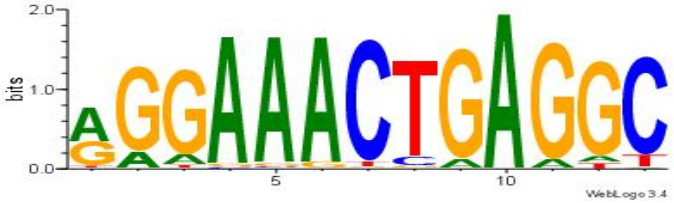

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107196

Alignment:
GCTCACTGCAASCTC
---TCTCAAGTCCAT

Original motif Consensus sequence: GCTCACTGCAASCTC

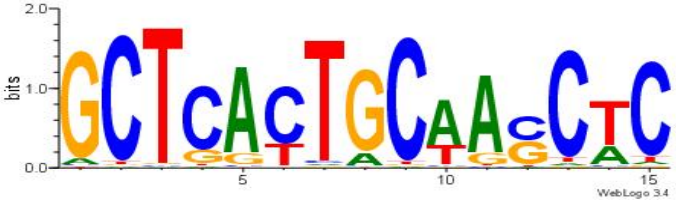

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

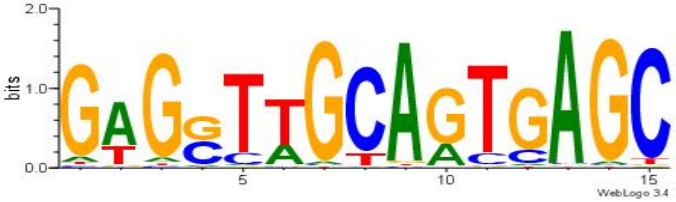

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.107234

Alignment:
CCAAGACYCCAGAC
-ATGGACTTGAGA-

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

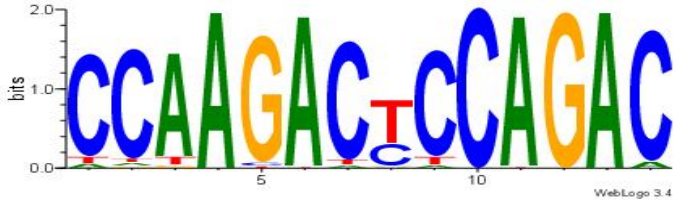

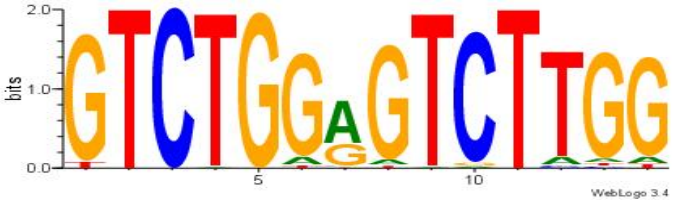

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.108281

Alignment:

```
GCAGTGAGCYRAGA
--ATGGACTTGAGA
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

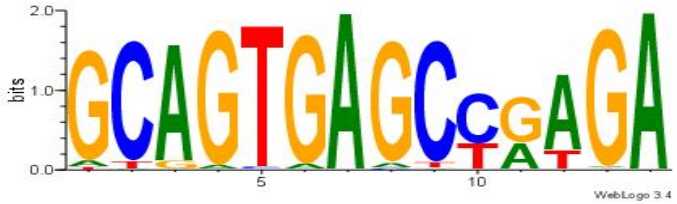

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

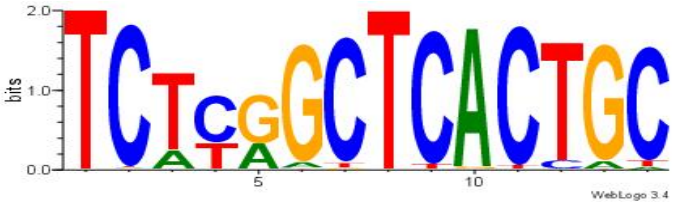

Dataset #:	1
Motif ID:	201

Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.109545

Alignment:

```
GTAACACTCACCGCGARGGT
---TCTCAAGTCCAT-----
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

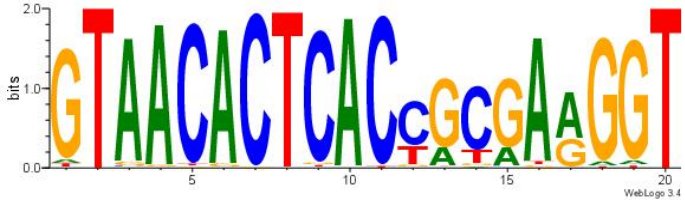

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

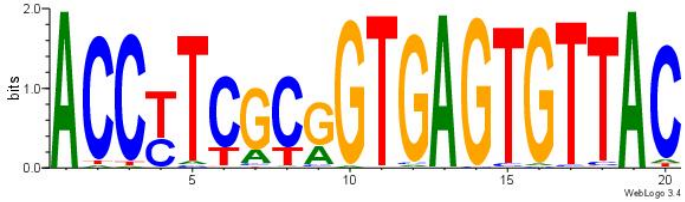

Dataset #: 1 Motif ID: 268 Motif name: Motif 268

Original motif Consensus sequence: ATAGTGAGACC

Reverse complement motif Consensus sequence: GGTCTCACTAT

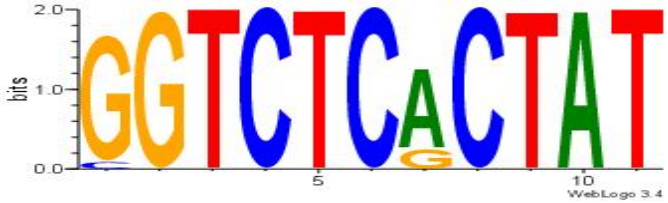

Best Matches for Motif ID 268 (Highest to Lowest)

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0513709

Alignment:

```
ATGGTGAAACCC
ATAGTGAGACC-
```

Original motif Consensus sequence: ATGGTGAAACCC

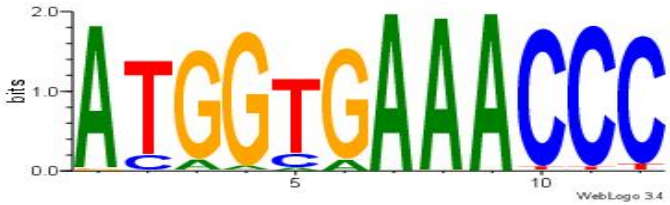

Reverse complement motif Consensus sequence: GGGTTTCACCAT

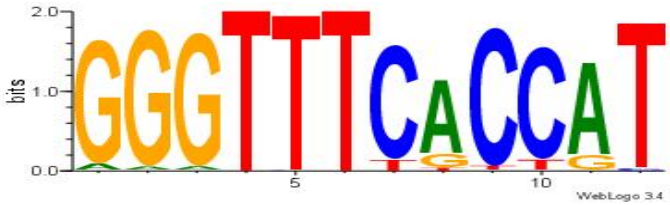

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0539738

Alignment:

```
ACAGAGTGAGACTCT
--ATAGTGAGACC--
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

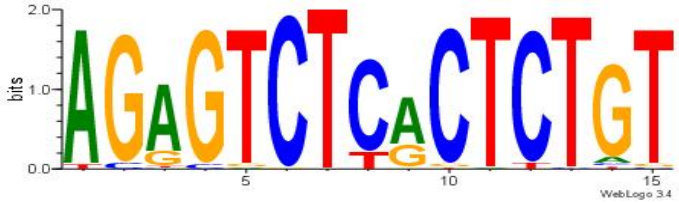

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

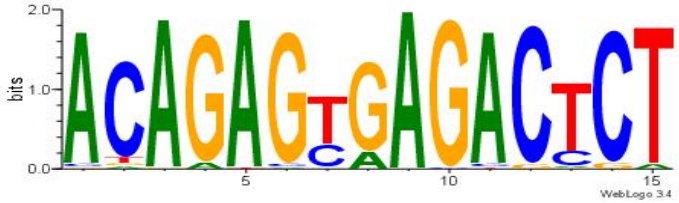

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0624225

Alignment:

```
CTGGGCRACAGAGYRAGACY
---------ATAGTGAGACC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

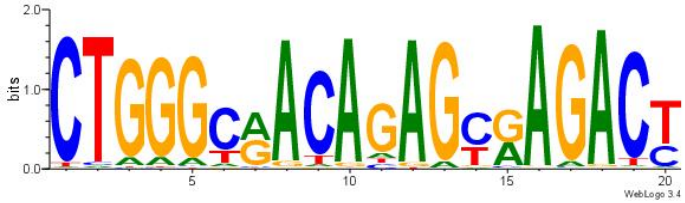

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

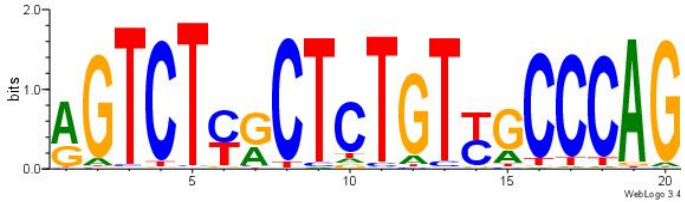

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0678548

Alignment:

```
AAGTCTCCCAATTACAACT
-GGTCTCACTAT-------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

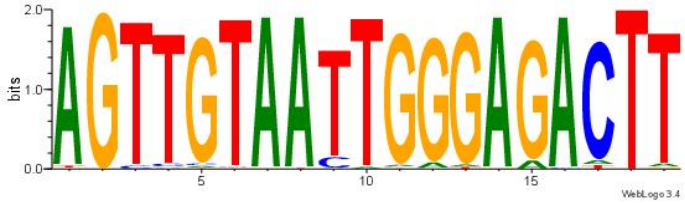

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

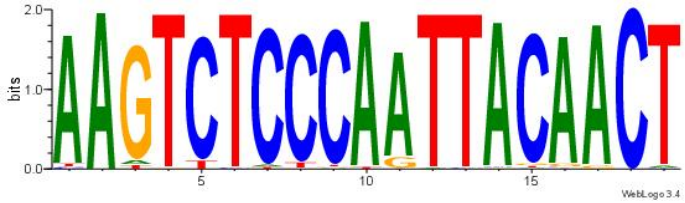

Dataset #:	1
Motif ID:	204
Motif name:	Motif 204
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0686646

Alignment:

```
AGAGYRAGACTCC
ATAGTGAGACC--
```

Original motif Consensus sequence: AGAGYRAGACTCC

Reverse complement motif Consensus sequence: GGAGTCTMKCTCT

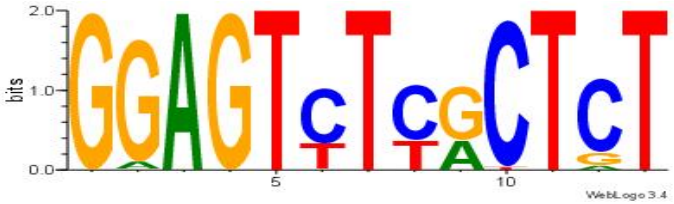

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.0787727

Alignment:
GGTTCATCTCACTAGGGAGT
-----GGTCTCACTAT----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

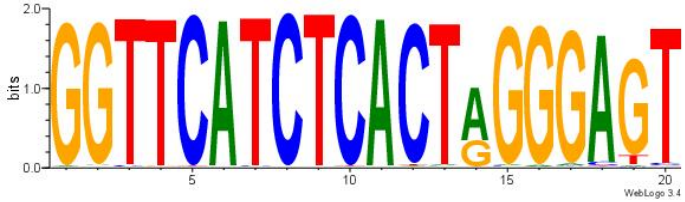

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

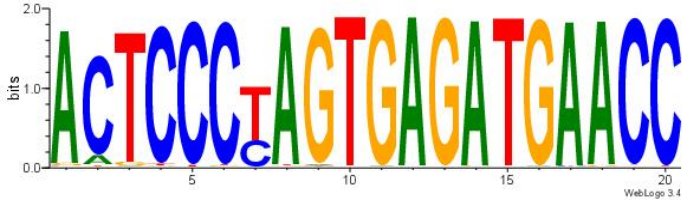

Dataset #: 1
Motif ID: 283
Motif name: Motif 283
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0804071

Alignment:
GCCCTCACCATCC
GGTCTCACTAT--

Original motif Consensus sequence: GCCCTCACCATCC

Reverse complement motif Consensus sequence: GGATGGTGAGGG

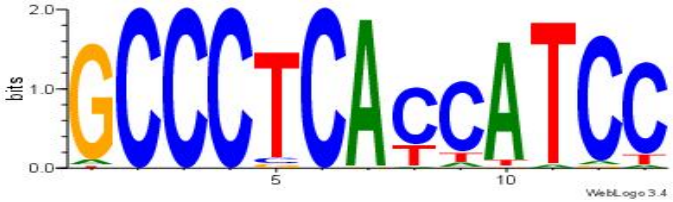

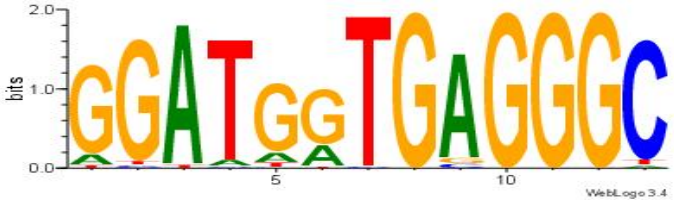

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0829779

Alignment:

```
WACAATCAGACCTTG
-ATAGTGAGACC---
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

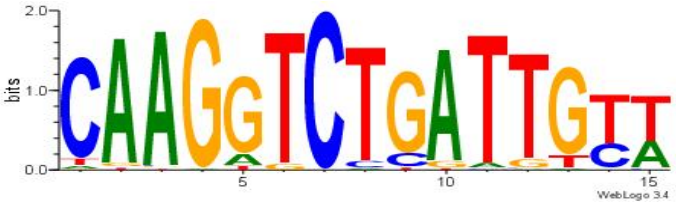

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	17

Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0843158

Alignment:

```
TGHCCTGCKCCCACTGTCT
------GGTCTCACTAT--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

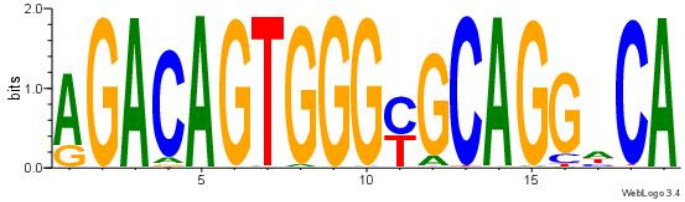

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

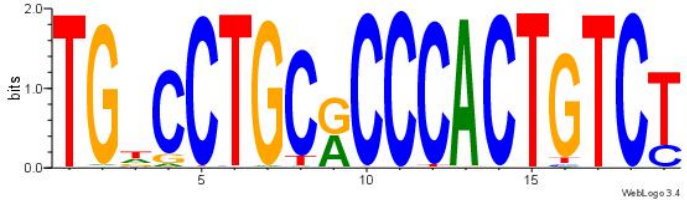

Dataset #:	1
Motif ID:	302
Motif name:	Motif 302
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0846988

Alignment:
GACCCTGAGAGC
-ATAGTGAGACC

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

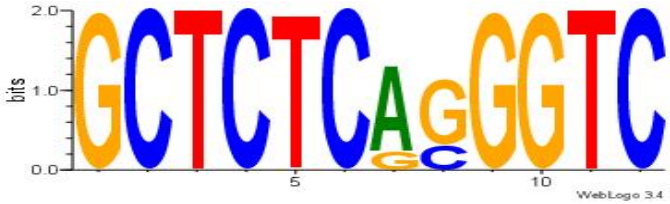

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0882055

Alignment:
TTMGTCCCAGAGGGGCACC
ATAGTGAGACC--------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

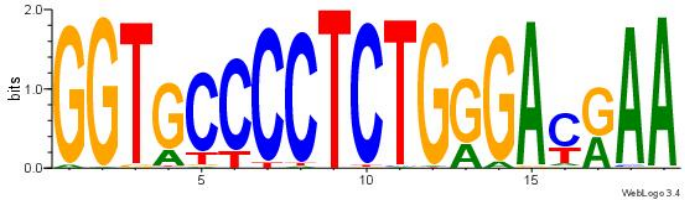

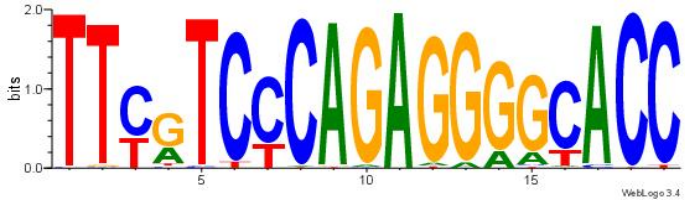

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0901178

Alignment:

```
TGGGGCTCCAGATG
--GGTCTCACTAT-
```

Original motif Consensus sequence: CATCTGGAGCCCCA

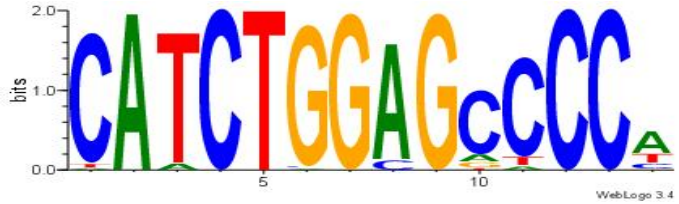

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

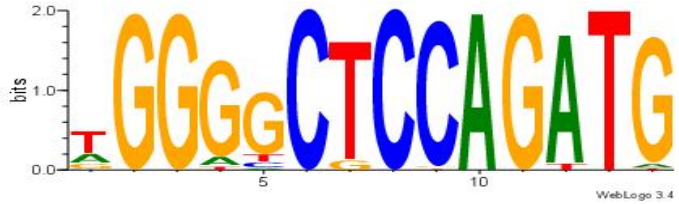

Dataset #:	1
Motif ID:	249

Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0908471

Alignment:

```
TGTGAAGAGACCACCAA
-ATAGTGAGACC-----
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

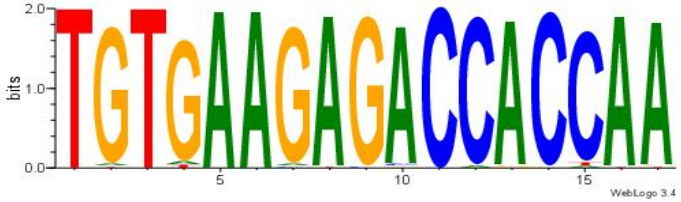

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

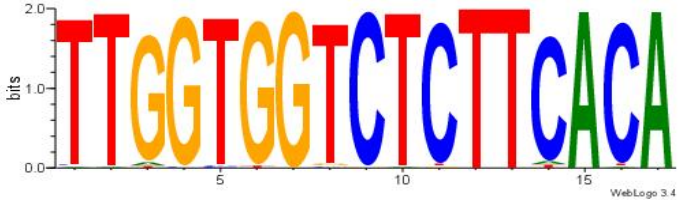

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0911836

Alignment:
GCCCTCACCAGAAGC
GGTCTCACTAT----

Original motif Consensus sequence: GCCCTCACCAGAAGC

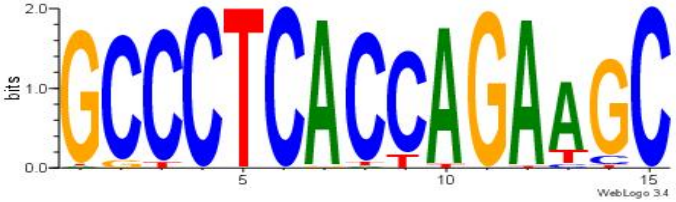

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

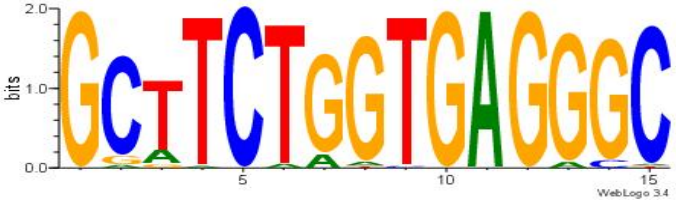

Dataset #:	1
Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0923973

Alignment:
GGTCCTCCTCTAT
GGTCTCACTAT--

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

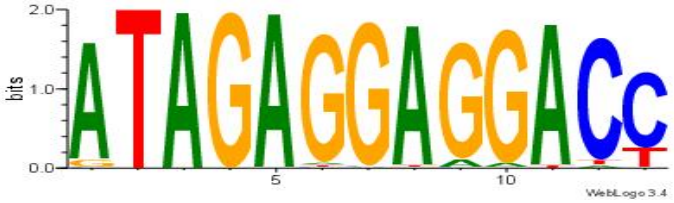

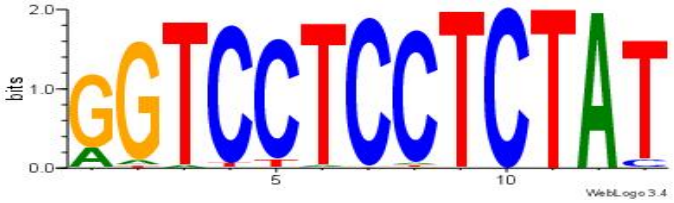

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0929998

Alignment:

```
AAAGAGAGTCAGCGAAG
ATAGTGAGACC------
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

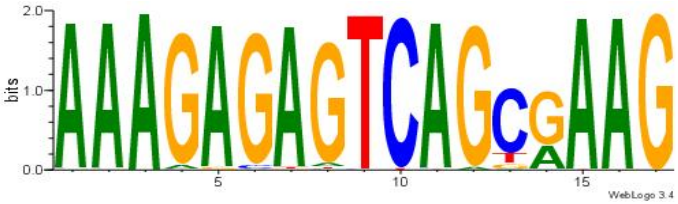

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

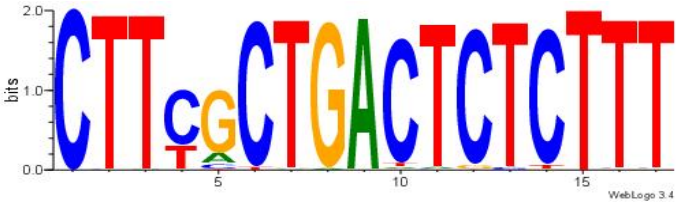

Dataset #: 1

Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0936879

Alignment:

```
GGCACTCCCTAGTG
-GGTCTCACTAT--
```

Original motif Consensus sequence: CACTAGGGAGTGCC

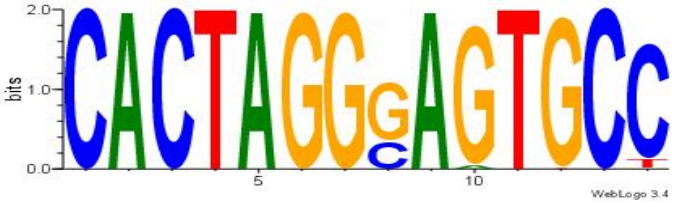

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

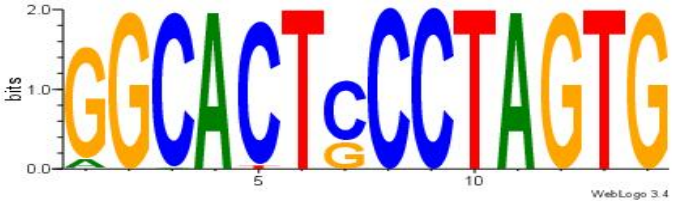

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0940477

Alignment:
GAATCCTGGGACAGCCTGT
--ATAGTGAGACC------

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

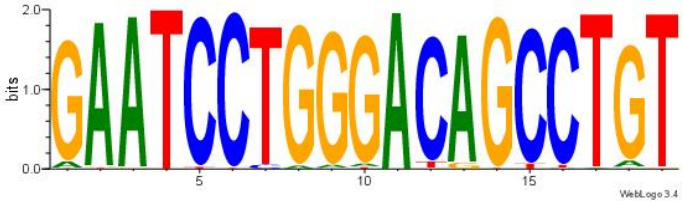

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

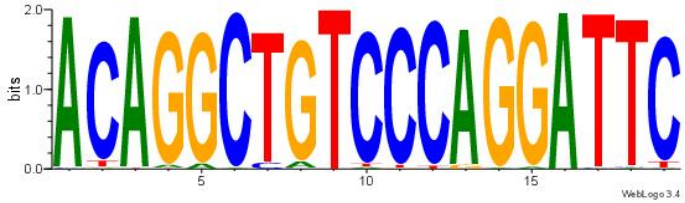

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0949726

Alignment:
CCGCTGCACTGTGGGAGCCC
-------ATAGTGAGACC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

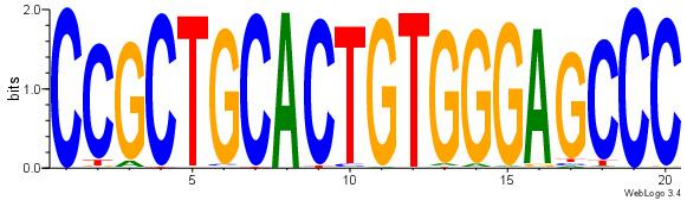

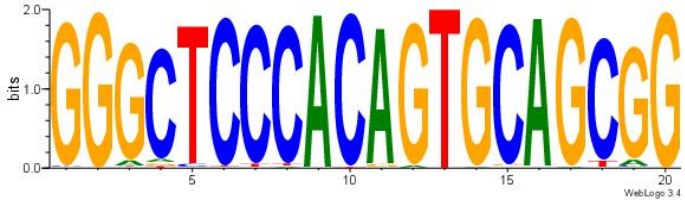

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0958126

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
------GGTCTCACTAT---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

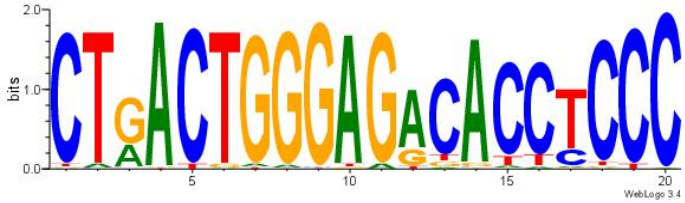

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

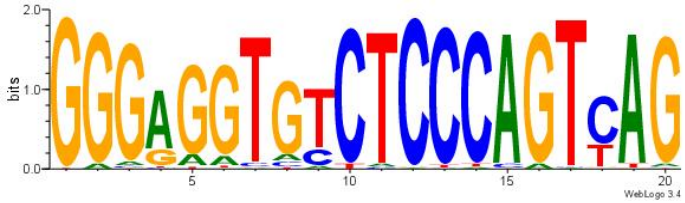

Dataset #:	1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0959575

Alignment:

```
ACAGGCTTTGTGTGAGCA
------ATAGTGAGACC-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

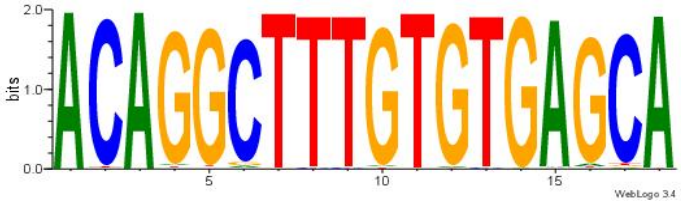

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

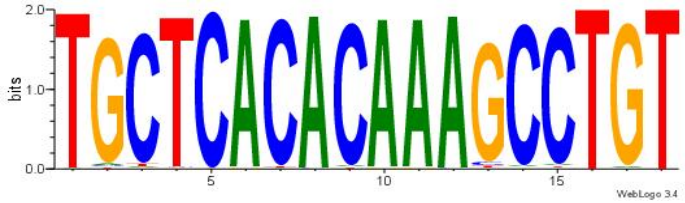

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0977411

Alignment:
AGTAGGTGCTCARTAAATRB
----GGTCTCACTAT-----

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

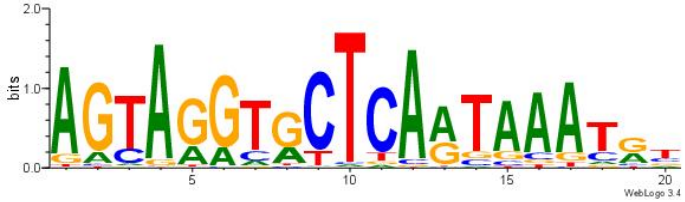

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

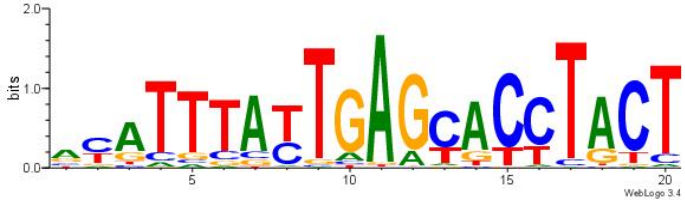

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0982053

Alignment:
GCTCTCAATTGGTCATT
GGTCTCACTAT------

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

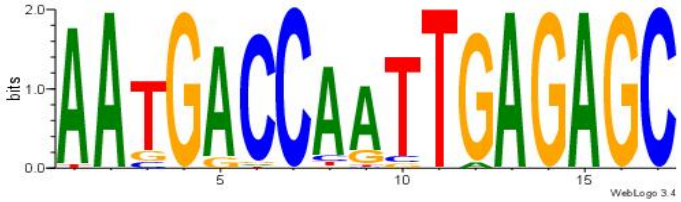

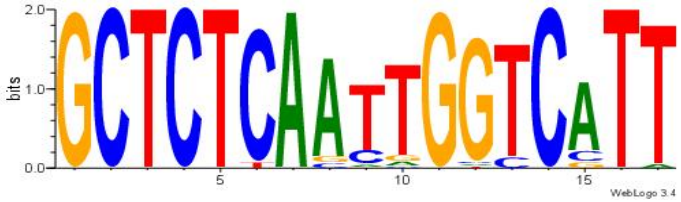

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0997047

Alignment:

```
AAGACCTTCCAGTGGGACAA
--------ATAGTGAGACC-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

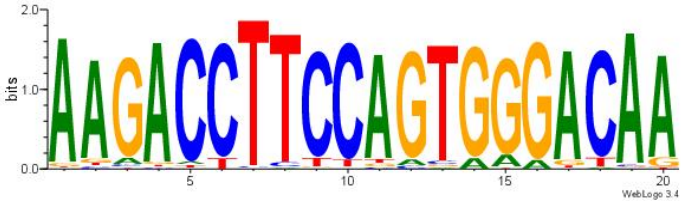

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

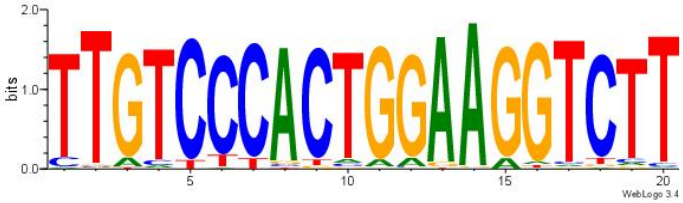

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.100069

Alignment:

```
GACTTCAAGAATGAAGCCG
-------ATAGTGAGACC-
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

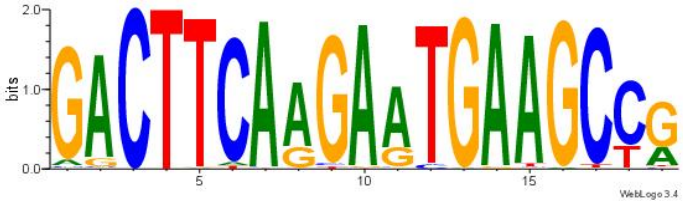

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

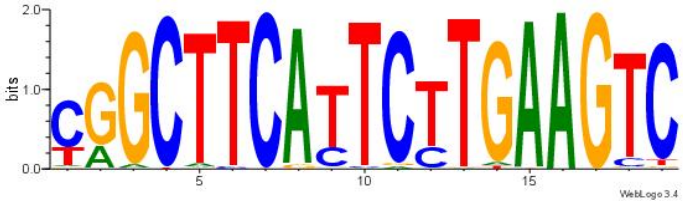

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.100891

Alignment:
CMCAGTTCACAATAGGGTT
----GGTCTCACTAT----

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

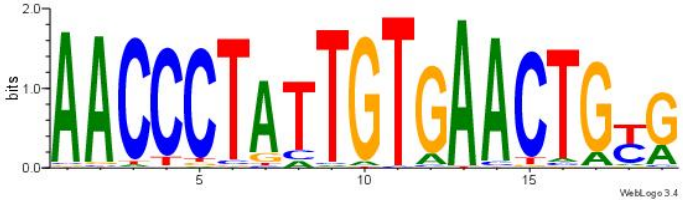

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

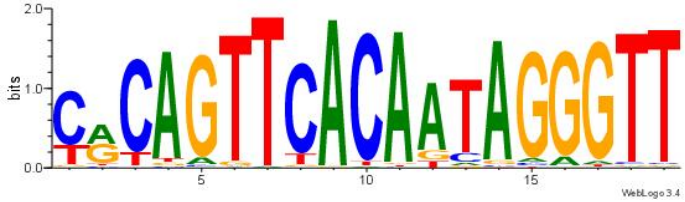

Dataset #: 1
Motif ID: 38
Motif name: Motif 38
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.101489

Alignment:
GCAGTGAGCYRAGA
ATAGTGAGACC---

Original motif Consensus sequence: GCAGTGAGCYRAGA

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

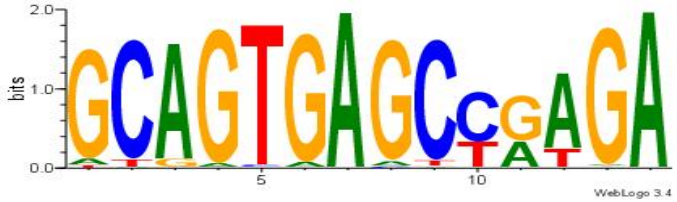

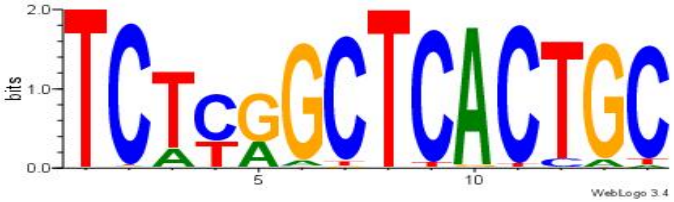

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.101503

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
--------GGTCTCACTAT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

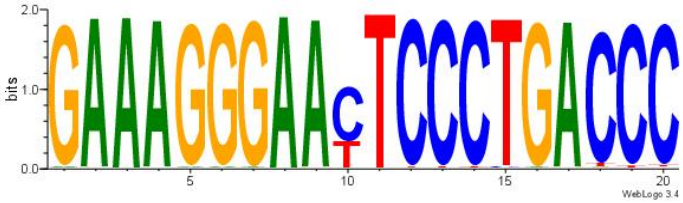

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

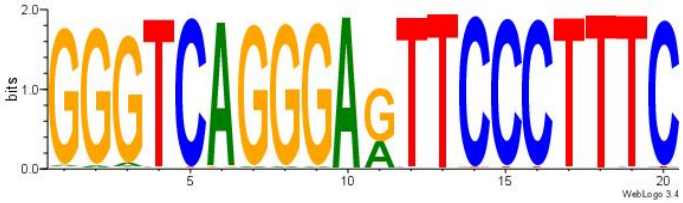

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101767

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
--------GGTCTCACTAT-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

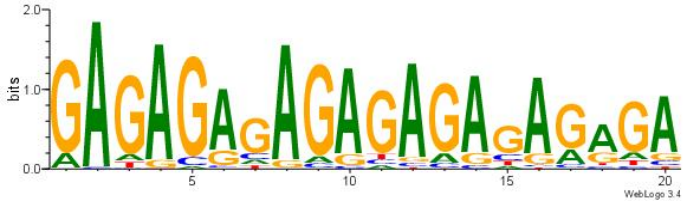

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

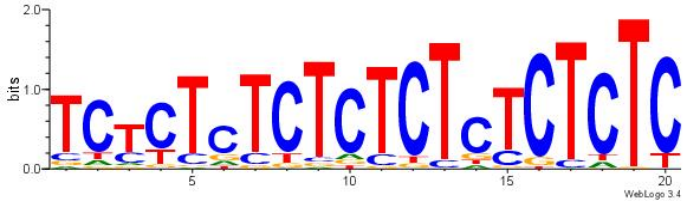

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.102563

Alignment:
TAAGTGGGAGCTAARC
ATAGTGAGACC-----

Original motif Consensus sequence: TAAGTGGGAGCTAARC

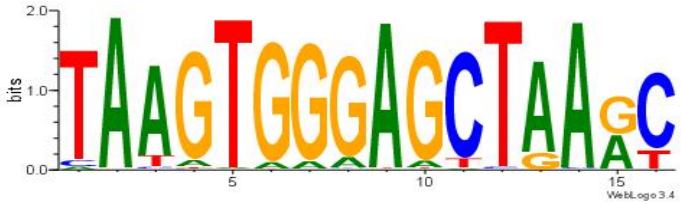

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

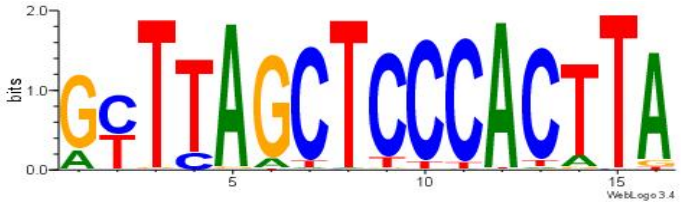

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.106516

Alignment:
AAGCAGGGCGAGGCATTGCC
----ATAGTGAGACC-----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

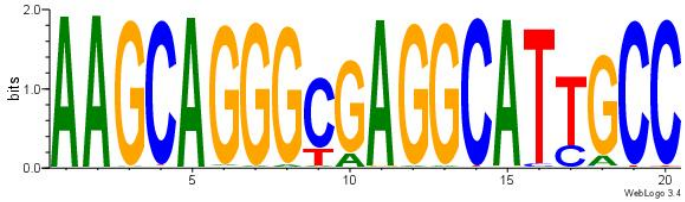

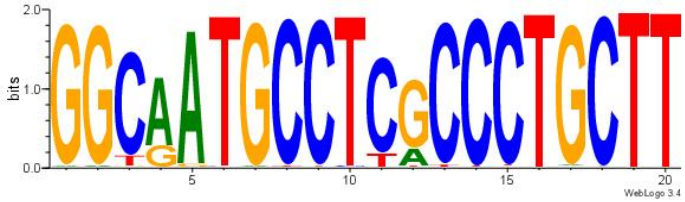

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.106721

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-ATAGTGAGACC--------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

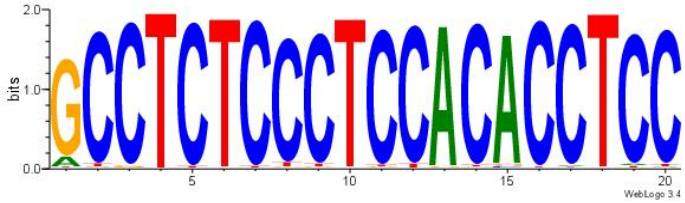

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

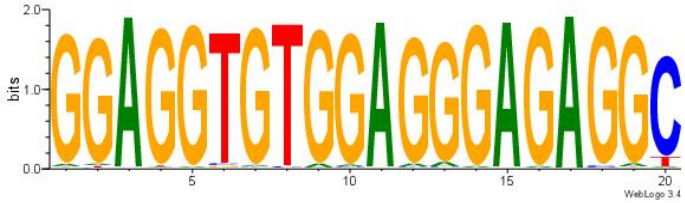

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.106791

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-----GGTCTCACTAT----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

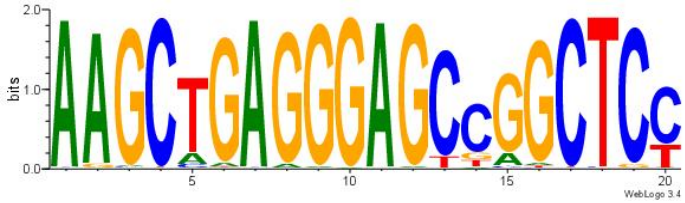

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

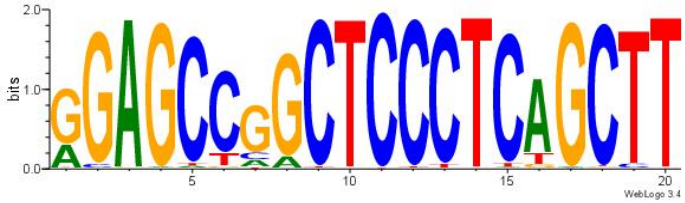

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.106821

Alignment:
GKCTGTACCCCCATTGTAT
---GGTCTCACTAT-----

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

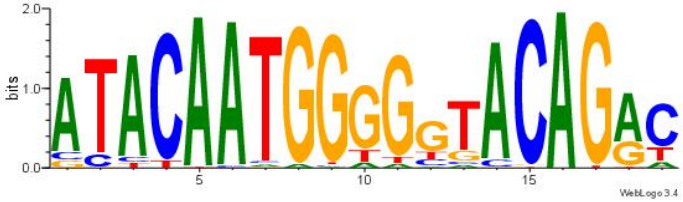

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

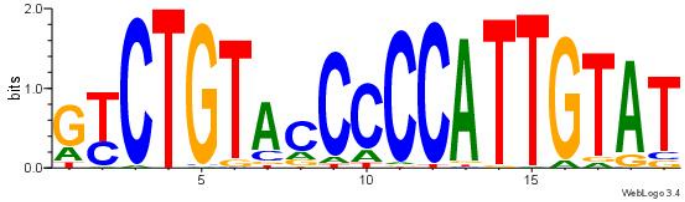

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.106997

Alignment:
TCAATGGGCTCCCAAATG
-----GGTCTCACTAT--

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

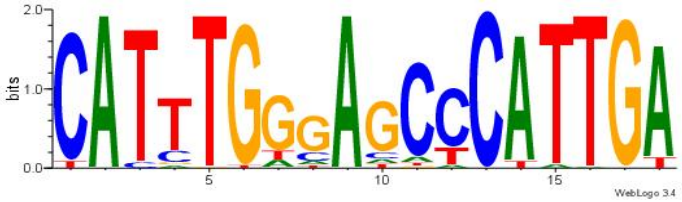

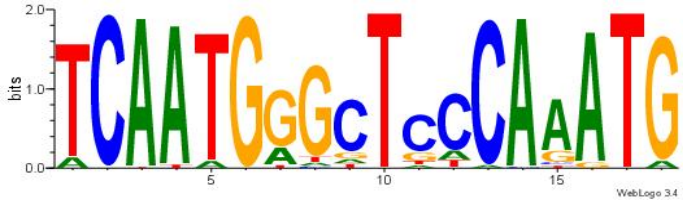

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.10702

Alignment:

```
AACAACASACACTGGGGCCT
-ATAGTGAGACC--------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

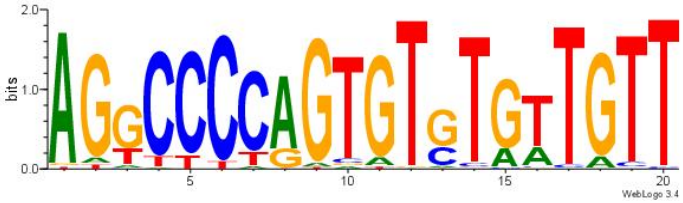

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

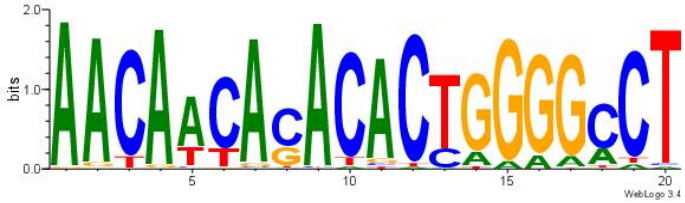

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.107928

Alignment:

```
AGTGACCCGATTTTCCAGGT
GGTCTCACTAT---------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

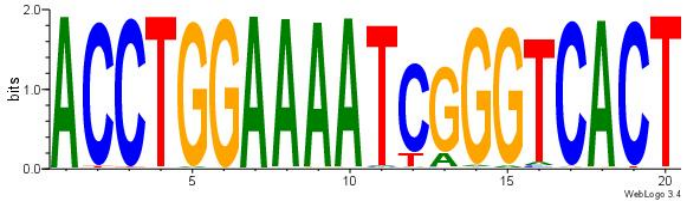

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

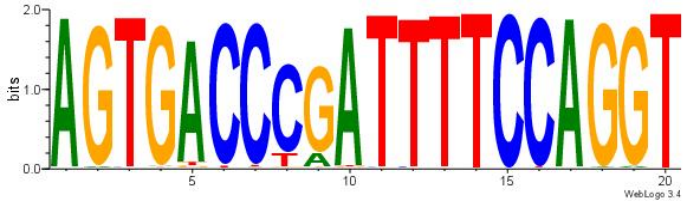

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.10804

Alignment:
AGAAATCGAGCRCAGCGCCG
--ATAGTGAGACC-------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

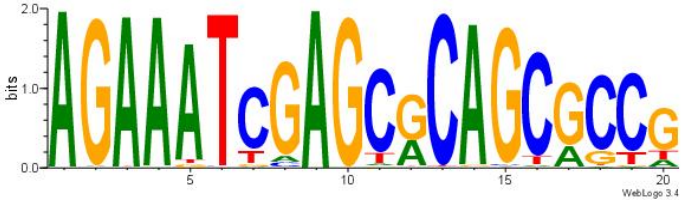

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

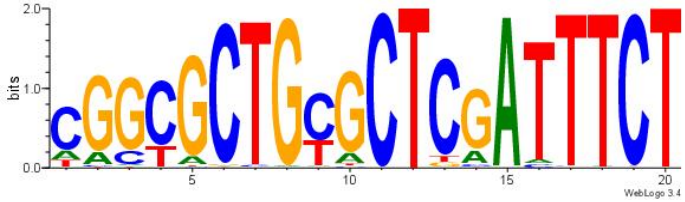

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.108692

Alignment:
CGTCGCTCACGCTGGGAGCT
-ATAGTGAGACC--------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

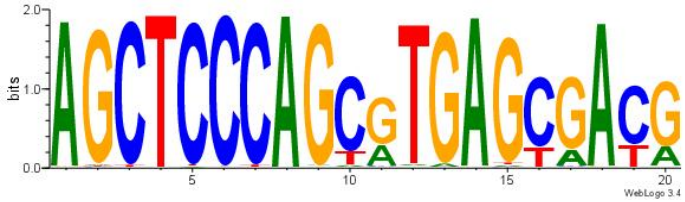

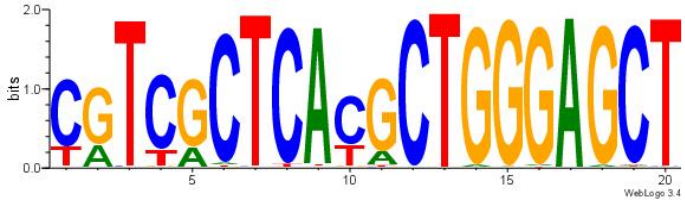

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.10876

Alignment:

```
GCACTCTGTMTCTAGCT
GGTCTCACTAT------
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

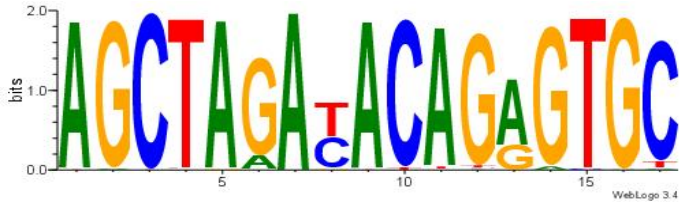

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

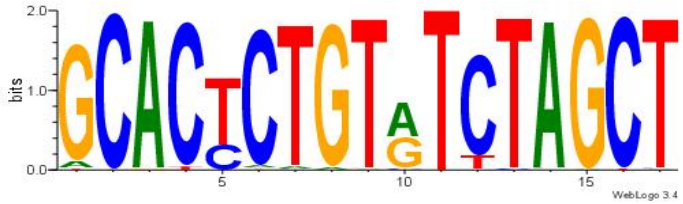

Dataset #:	1

Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.109307

Alignment:

```
ATTGCTAGCACA
ATAGTGAGACC-
```

Original motif Consensus sequence: ATTGCTAGCACA

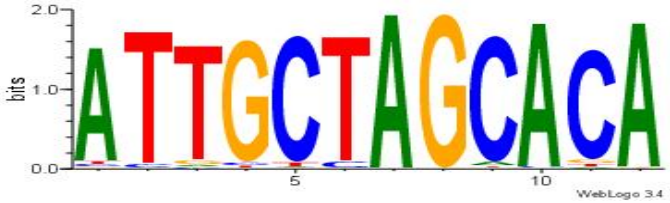

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

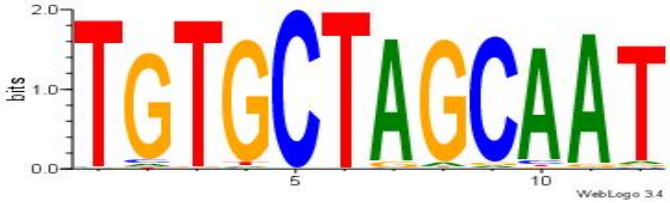

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.10936

Alignment:
AGGAGRCMCTCTGCCTGGC
-GGTCTCACTAT-------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

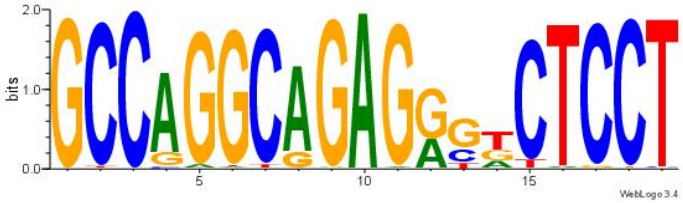

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

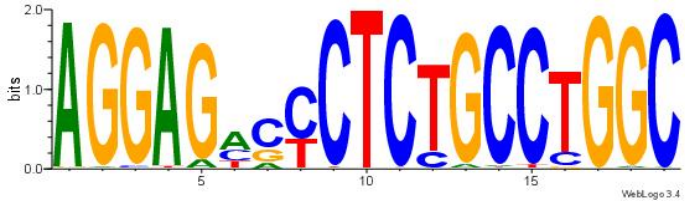

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.109642

Alignment:
ATGGCTGAATAKTATTCCAT
-GGTCTCACTAT--------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

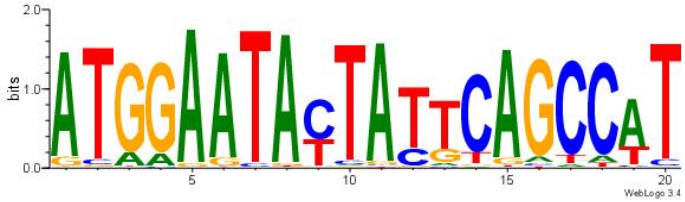

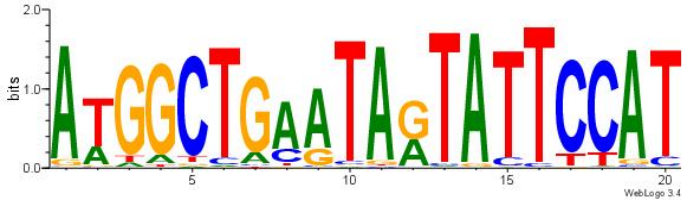

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.109758

Alignment:

```
TAGATAATAGCTCCAGCTTT
------ATAGTGAGACC---
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

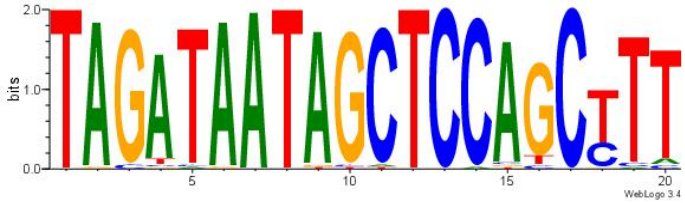

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

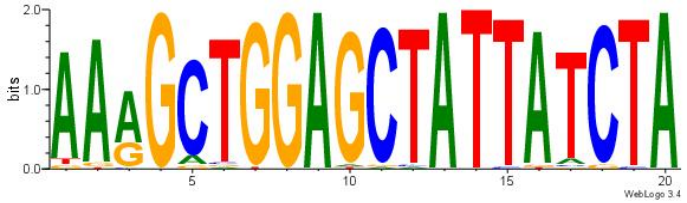

Dataset #:	1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.109914

Alignment:

```
GATCACGAGGTCAGGAG
-ATAGTGAGACC-----
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

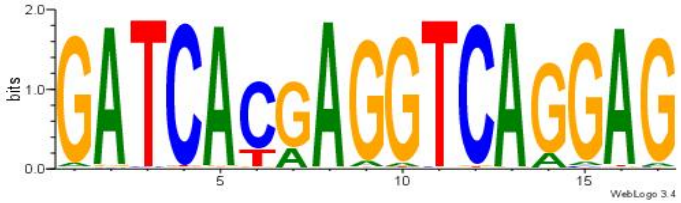

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

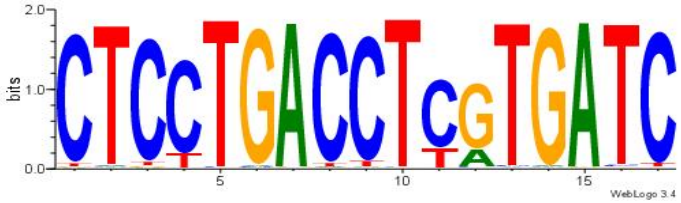

Dataset #:	1
Motif ID:	340
Motif name:	Motif 340
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.10998

Alignment:
GCTCTCTGGGTC
GGTCTCACTAT-

Original motif Consensus sequence: GACCCAGAGAGC

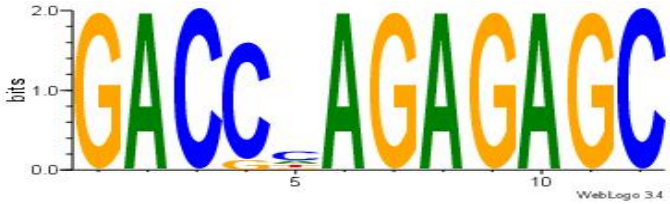

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

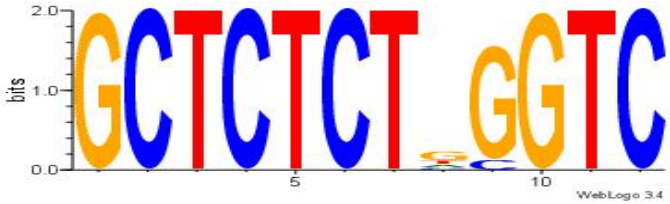

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.110128

Alignment:
TGATACCCAGGCAAACAG
--ATAGTGAGACC-----

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

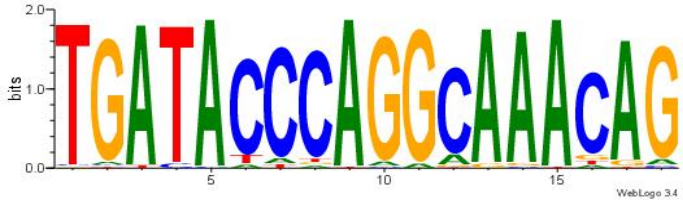

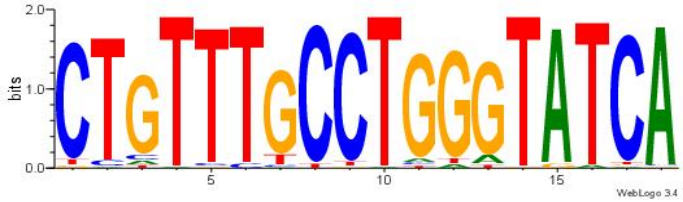

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.11047

Alignment:

```
GCCAATTTCTCCCATTTGGA
-----GGTCTCACTAT----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

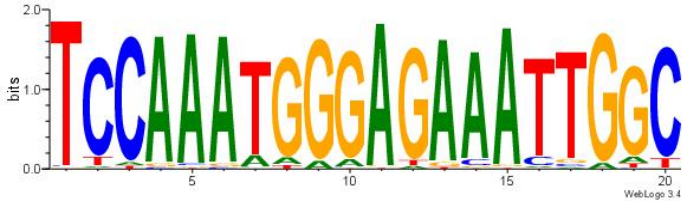

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

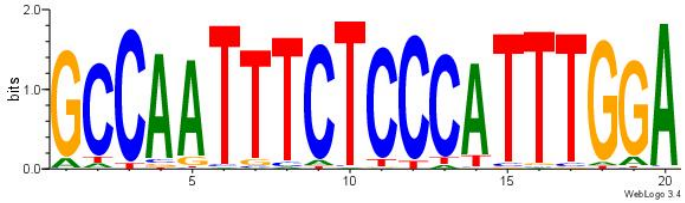

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.110569

Alignment:

```
CACCAGACTCAGGAGCCCAG
--ATAGTGAGACC-------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

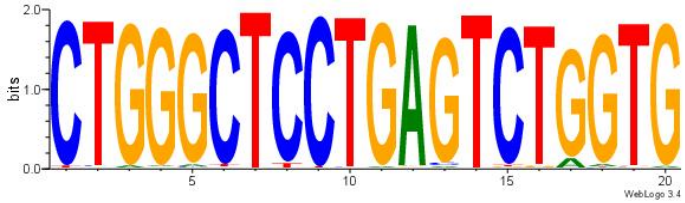

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

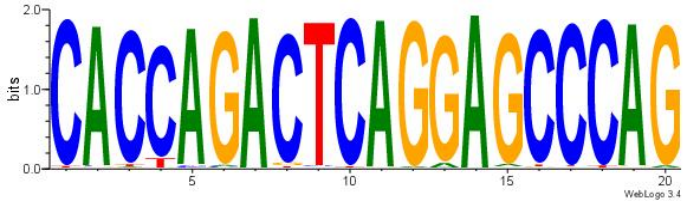

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.11064

Alignment:
GGCACTGCTGGGGGACCCAG
---ATAGTGAGACC------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

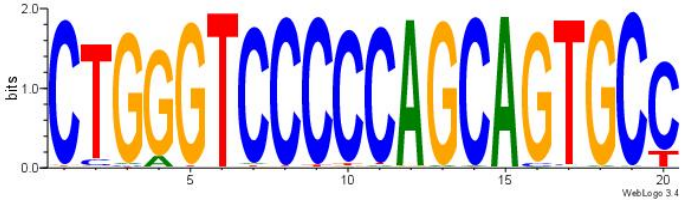

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

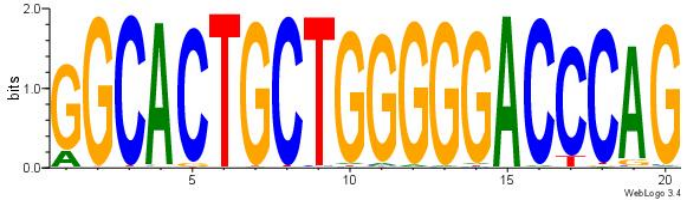

Dataset #: 1 Motif ID: 269 Motif name: Motif 269

Original motif Consensus sequence: AGCGACATGTGC

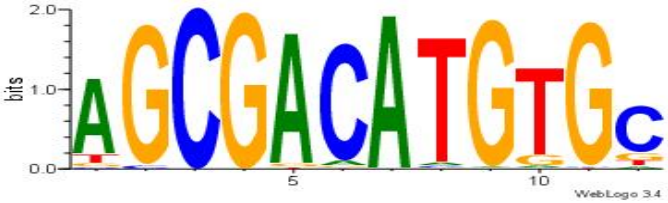

Reverse complement motif Consensus sequence: GCACATGTCGCT

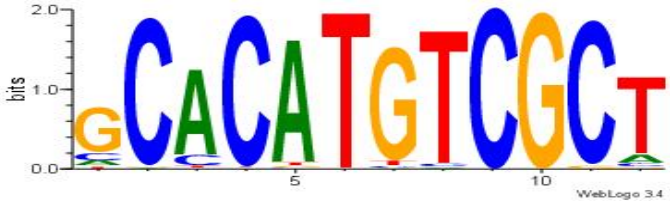

Best Matches for Motif ID 269 (Highest to Lowest)

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.0483903

Alignment:

```
GCACATGTAYCCYAGAACTT
--------GCACATGTCGCT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

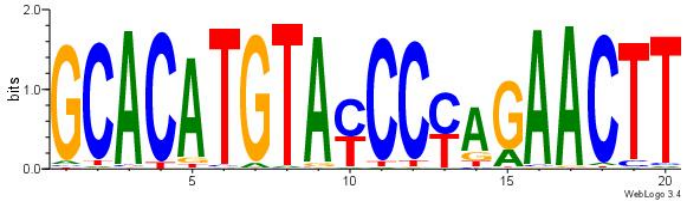

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

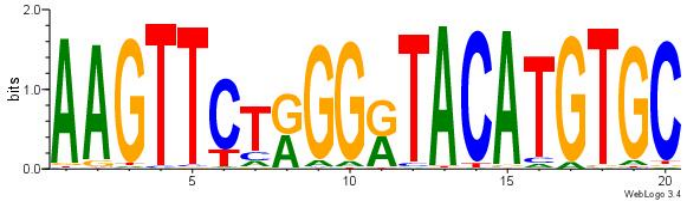

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0581181

Alignment:

```
CTCRAATGTCCCTT
-GCACATGTCGCT-
```

Original motif Consensus sequence: AAGGGACATTKGAG

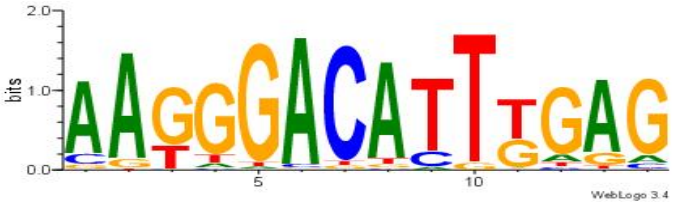

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

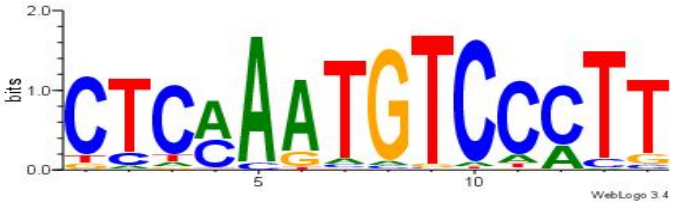

Dataset #:	1
Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.062288

Alignment:

```
CCGCGCCGTGCGC
AGCGACATGTGC-
```

Original motif Consensus sequence: GCGCACGGCGCGG

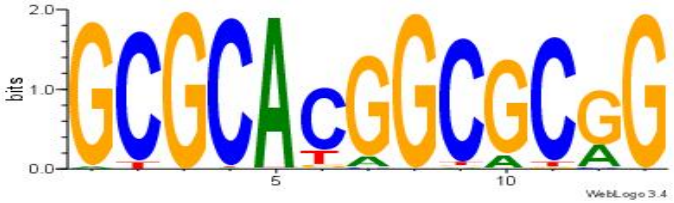

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

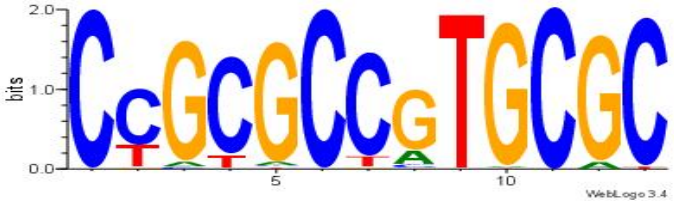

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0646389

Alignment:

```
TTTTCACATGCCTTTCT
---GCACATGTCGCT--
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

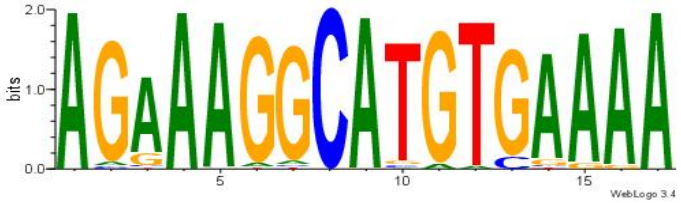

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

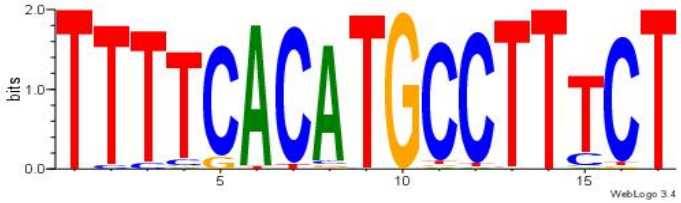

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 12
Similarity score: 0.0679249

Alignment:
ACTCCCTAGTGAGATGAACC
-AGCGACATGTGC-------

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

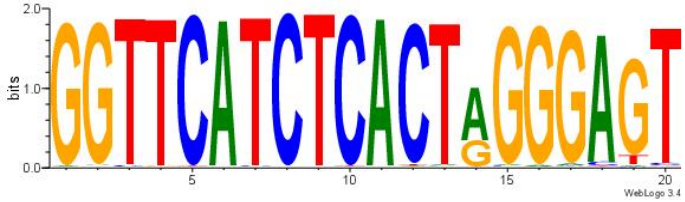

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

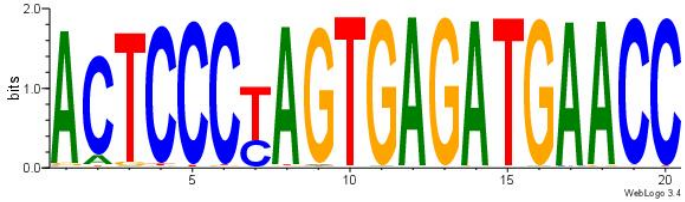

Dataset #: 1
Motif ID: 138
Motif name: Motif 138
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0770106

Alignment:
GGSKGATCTGGCTG
-GCACATGTCGCT-

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

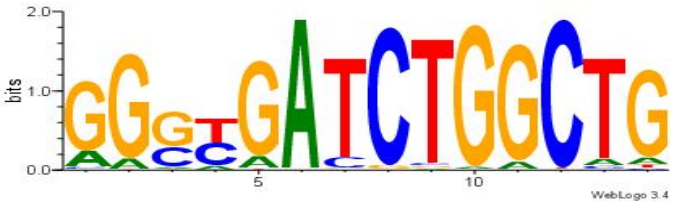

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0775328

Alignment:

```
CCGCACTCGGAGCRG
-GCACATGTCGCT--
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

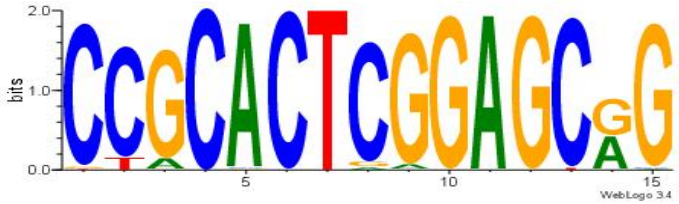

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

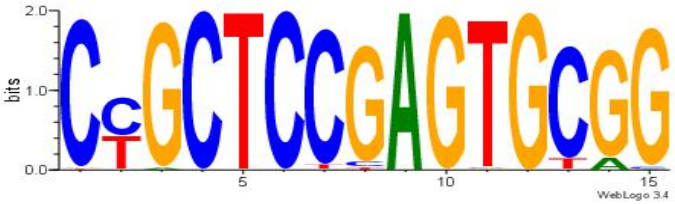

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0804736

Alignment:

```
ATGGACAYTTRGGTTGHTTC
------GCACATGTCGCT--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

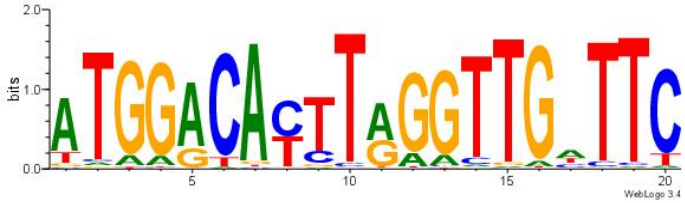

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

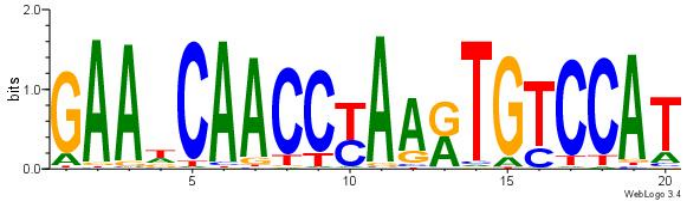

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.0812706

Alignment:
AATGAKATCATGTCYTTTGC
-----GCACATGTCGCT---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

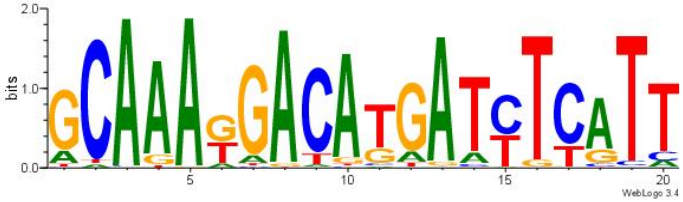

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

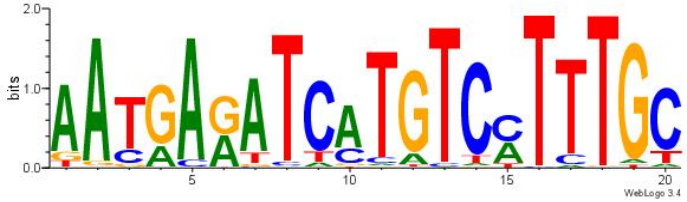

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0819662

Alignment:
GGGAGGGATATATTAGC
---AGCGACATGTGC--

Original motif Consensus sequence: GGGAGGGATATATTAGC

Reverse complement motif Consensus sequence:
GCTAATATATCCCTCCC

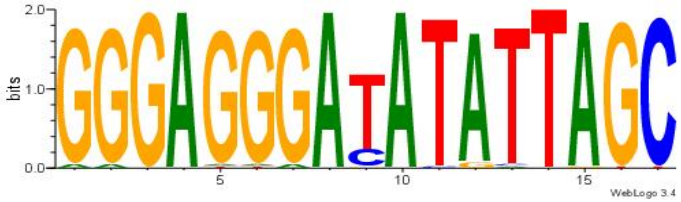

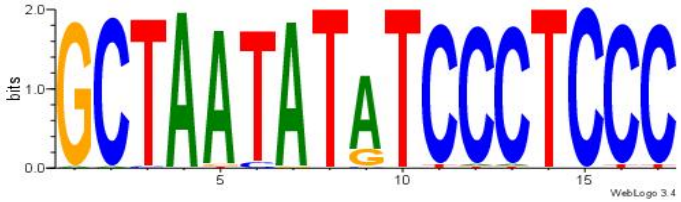

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0826033

Alignment:

```
TCCAAATGGGAGAAATTGGC
--------AGCGACATGTGC
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

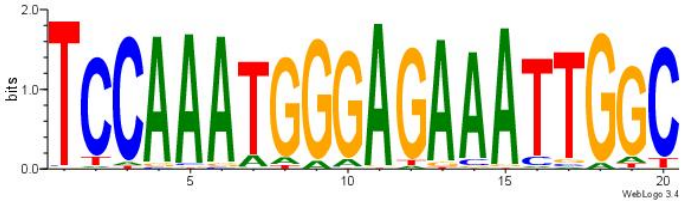

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

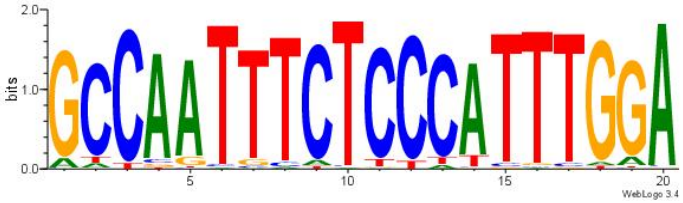

Dataset #: 1

Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0839148

Alignment:

```
AAGGTCCATGTAG
-AGCGACATGTGC
```

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

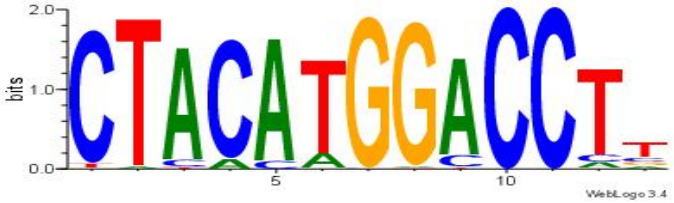

Dataset #:	1
Motif ID:	267
Motif name:	Motif 267
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0847228

Alignment:
TCTCAAGTCCAT
GCACATGTCGCT

Original motif Consensus sequence: ATGGACTTGAGA

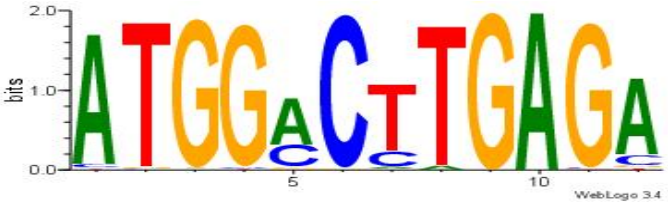

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

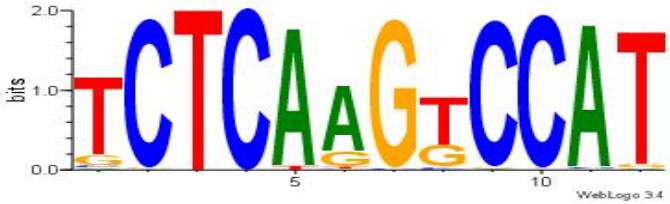

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0870123

Alignment:
MGAAGGGACTTGCCTTGT
---AGCGACATGTGC---

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

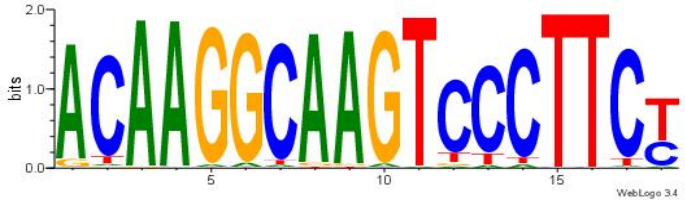

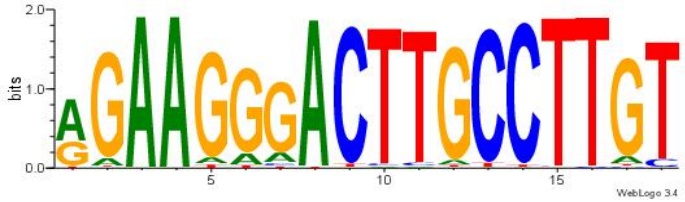

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0874317

Alignment:

```
CAGCTACTCKTATACCCTTG
-------AGCGACATGTGC-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

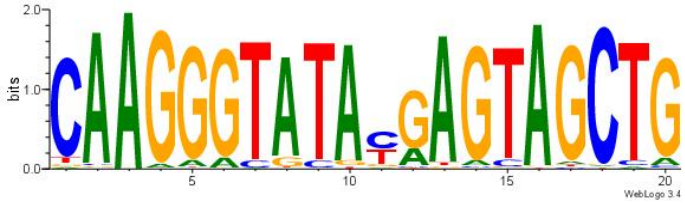

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

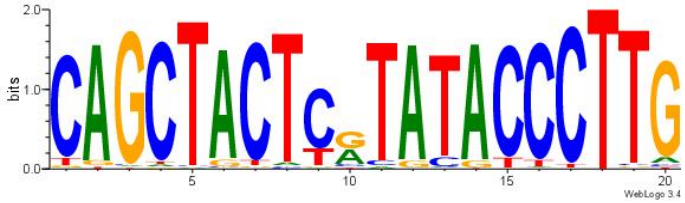

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.08811

Alignment:

```
CACCAGACTCAGGAGCCCAG
----AGCGACATGTGC----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

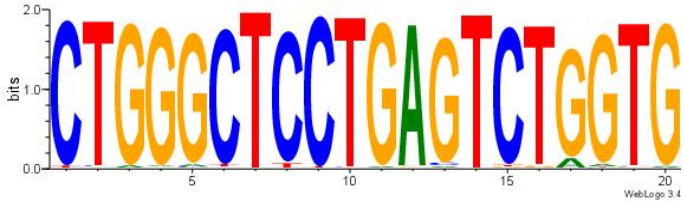

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

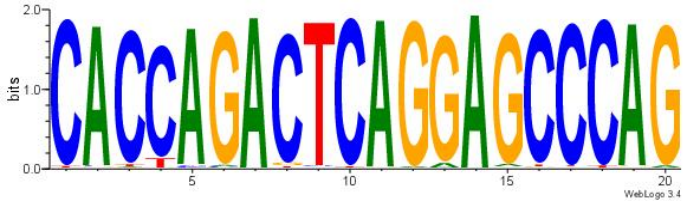

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.0897061

Alignment:
GTAGACKGGAGCTGTTCCT
-------GCACATGTCGCT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

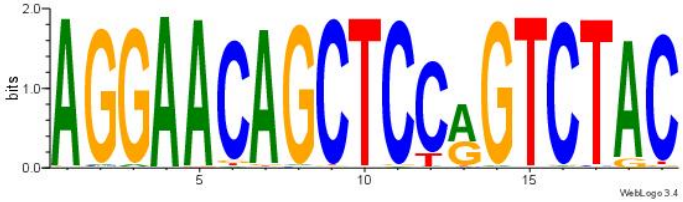

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

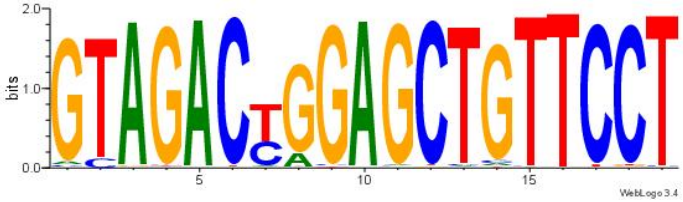

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0897615

Alignment:
GGGGTGACAGABGB
--AGCGACATGTGC

Original motif Consensus sequence: GGGGTGACAGABGB

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

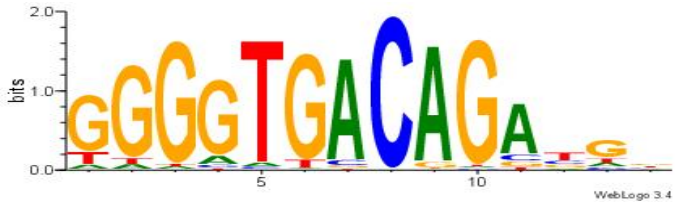

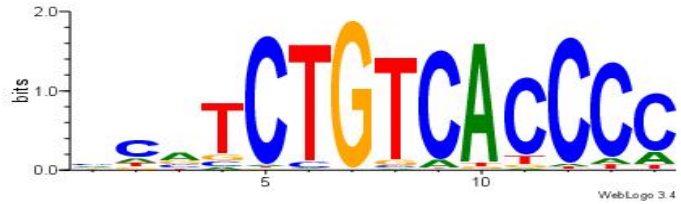

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0899371

Alignment:

```
ATCTCASAAATCACCACTA
----GCACATGTCGCT---
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

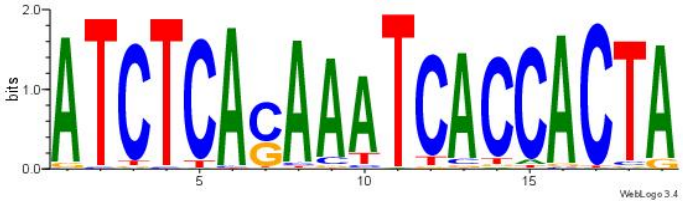

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

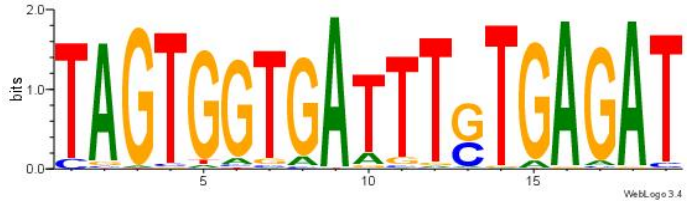

Dataset #: 1

Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0903204

Alignment:

```
TATTTACAGCTGCT
-AGCGACATGTGC-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

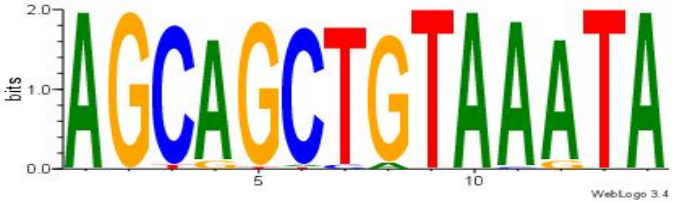

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

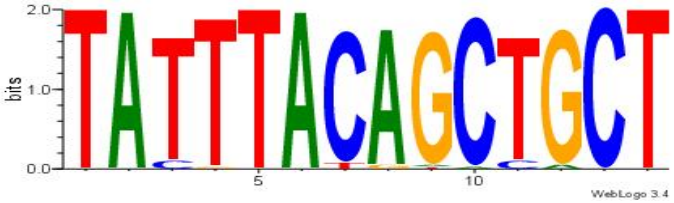

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.090708

Alignment:
GGMGCKGTGGCTC
GCACATGTCGCT-

Original motif Consensus sequence: GAGCCACYGCRCC

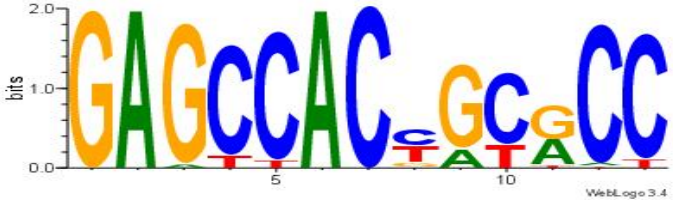

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0923635

Alignment:
CTGACTGGGAGACACCTCCC
-------AGCGACATGTGC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

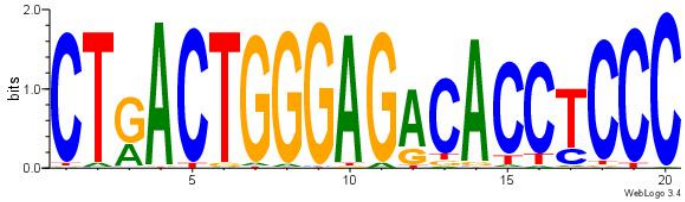

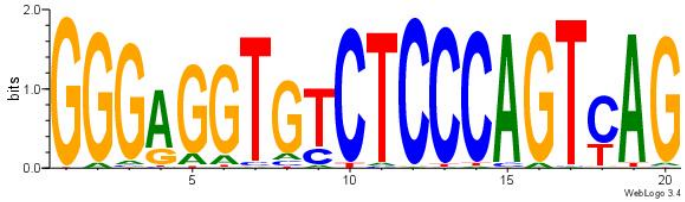

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0925151

Alignment:

```
ATTCAASATGAGATTTGGG
------AGCGACATGTGC-
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

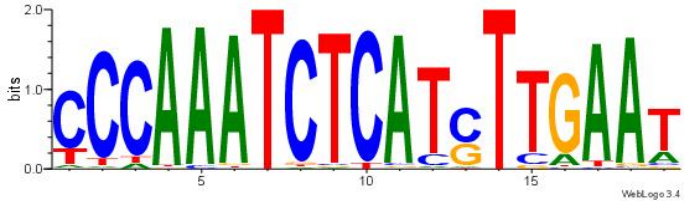

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

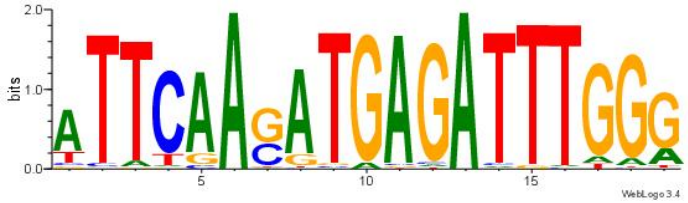

Dataset #: 1

Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0925288

Alignment:

GCCGCCATCTTG

AGCGACATGTGC

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

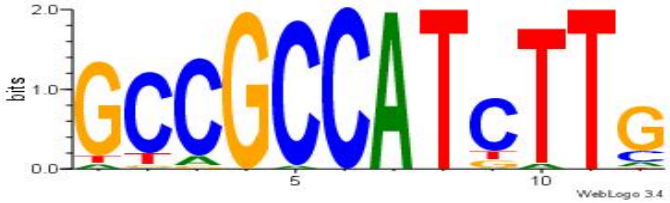

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0933052

Alignment:
AAAMAMMKMATGTTCTCACT
-----AGCGACATGTGC---

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

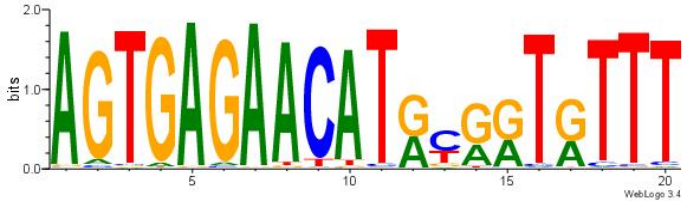

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

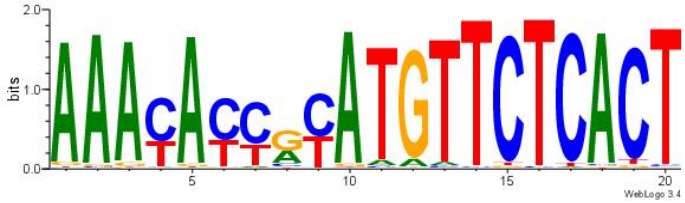

Dataset #:	1
Motif ID:	91
Motif name:	Motif 91
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0942071

Alignment:
AGACYCYGTCTCAA
-GCACATGTCGCT-

Original motif Consensus sequence: AGACYCYGTCTCAA

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

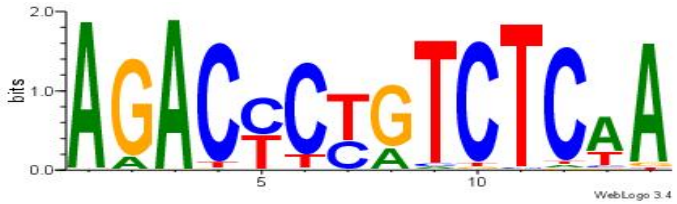

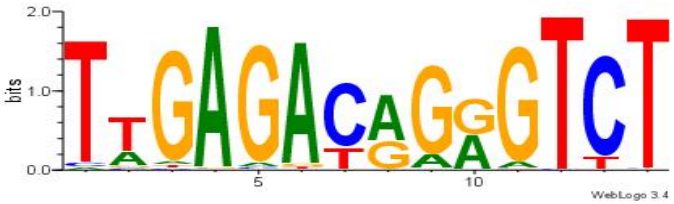

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0946717

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
----GCACATGTCGCT----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

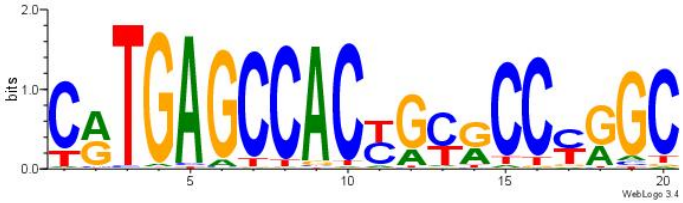

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

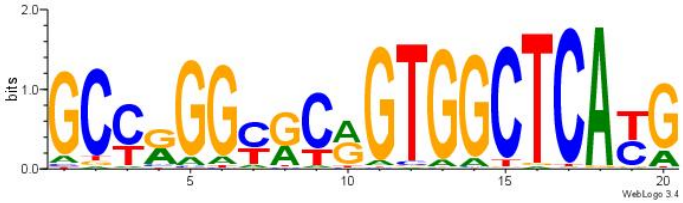

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0948193

Alignment:

```
GACATGAGCTGGCGCTTG
----GCACATGTCGCT--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

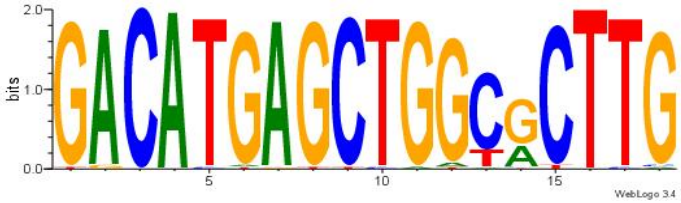

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

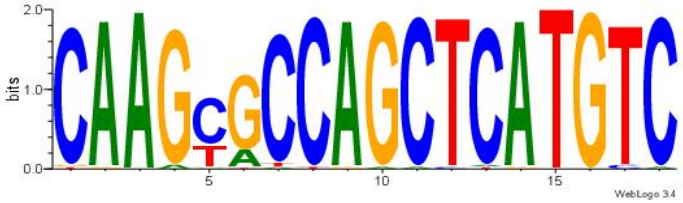

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0948425

Alignment:
GTTGGCCAGGCTGGTCT
---GCACATGTCGCT--

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

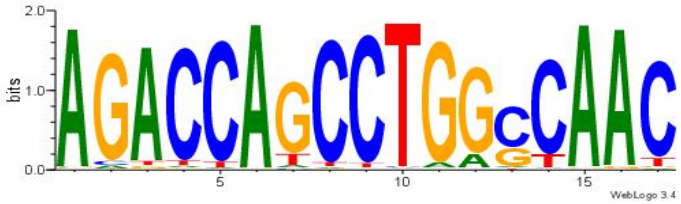

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

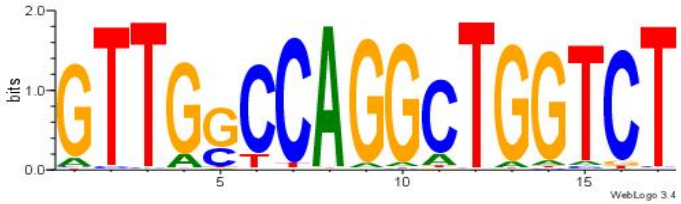

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0948777

Alignment:
AGGTTTGTTACATAGGTAWA
-----AGCGACATGTGC---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

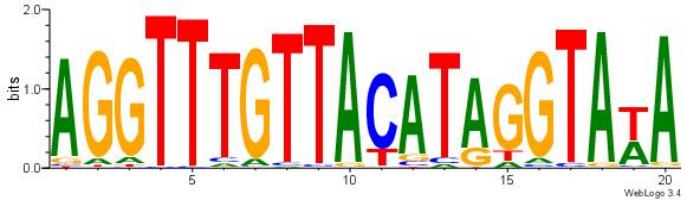

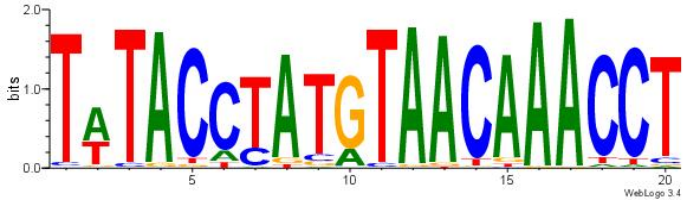

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0949155

Alignment:

```
AGGGATCTAGGTTGCR
AGCGACATGTGC----
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

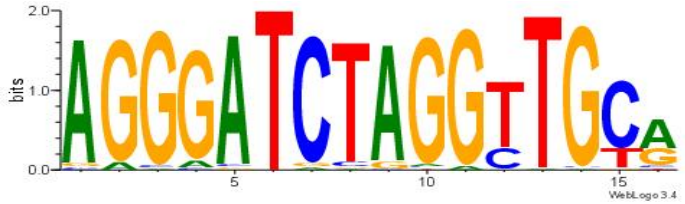

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

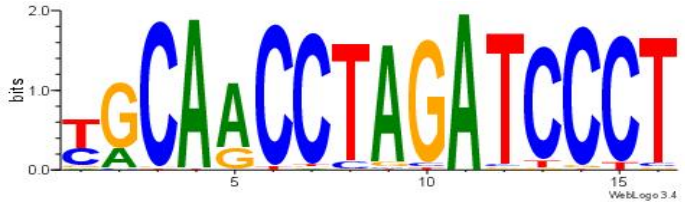

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0956853

Alignment:

```
KKCACCTTGATCTTGGACTT
-GCACATGTCGCT-------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

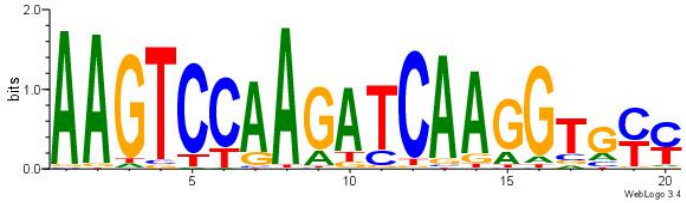

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

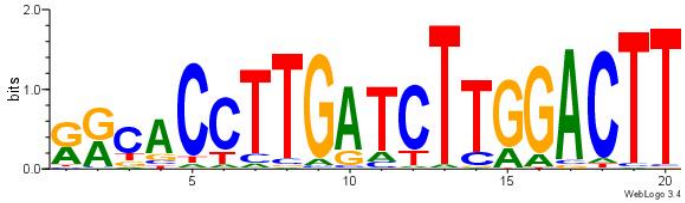

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.095739

Alignment:
AGGCCCCAGTGTSTGTTGTT
------GCACATGTCGCT--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

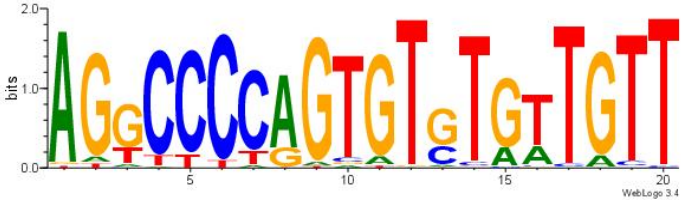

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

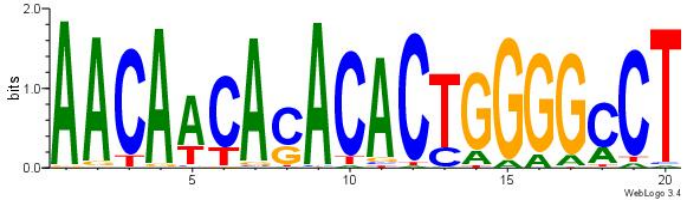

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.09586

Alignment:
ACATCTGYMMCC
GCACATGTCGCT

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

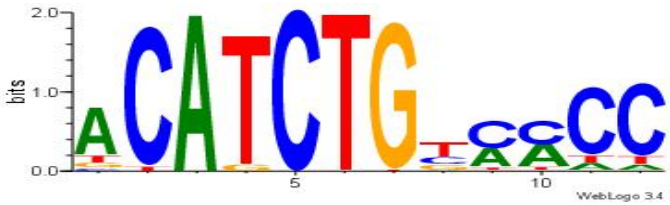

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.096085

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
GCACATGTCGCT--------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

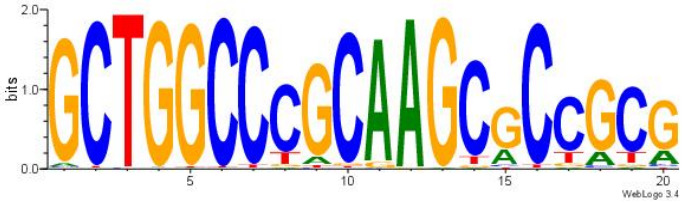

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

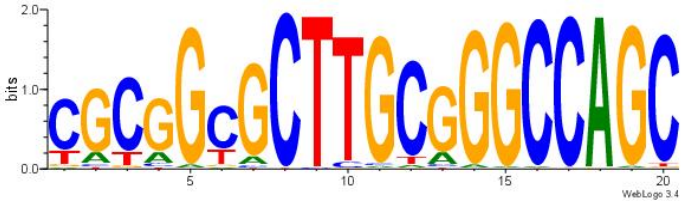

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0964775

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-------GCACATGTCGCT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

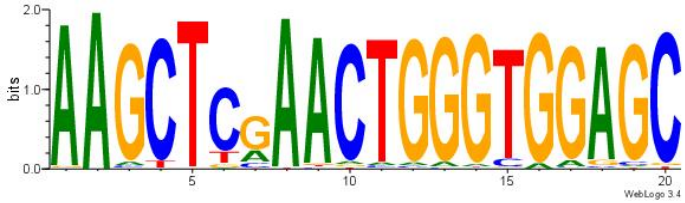

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

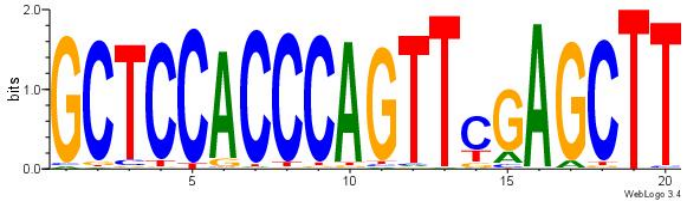

Dataset #:	1
Motif ID:	365
Motif name:	Motif 365
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0964874

Alignment:
GTAGACCGGAGCT
AGCGACATGTGC-

Original motif Consensus sequence: AGCTCCGGTCTAC

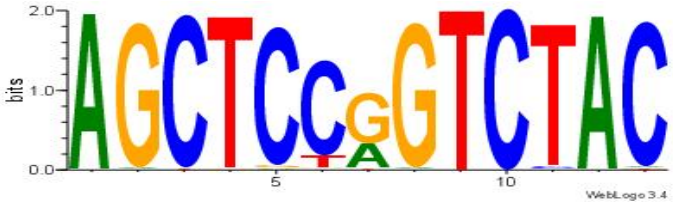

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

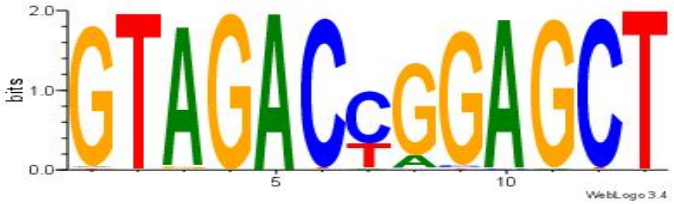

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.0967034

Alignment:
AGCTCMKCCTCCTGTCAGAT
-------GCACATGTCGCT-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

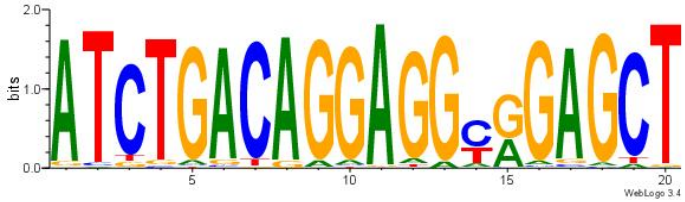

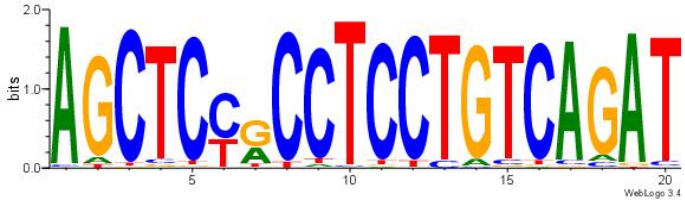

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0968381

Alignment:

```
AGGAGCGCCTCTKCCCGGC
---GCACATGTCGCT----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

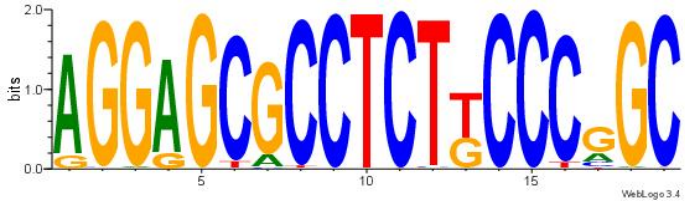

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

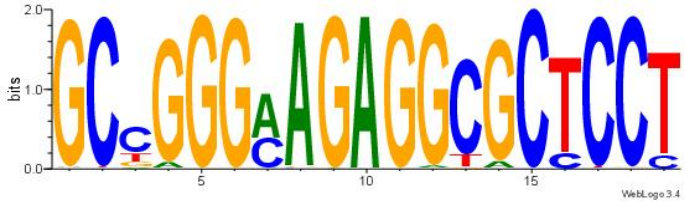

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0969605

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GCACATGTCGCT--------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

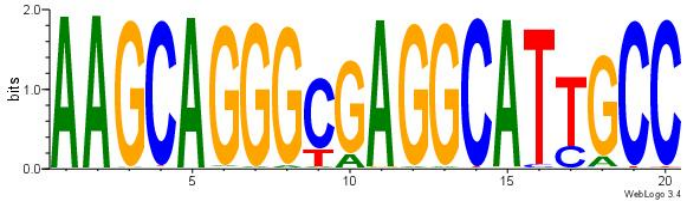

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

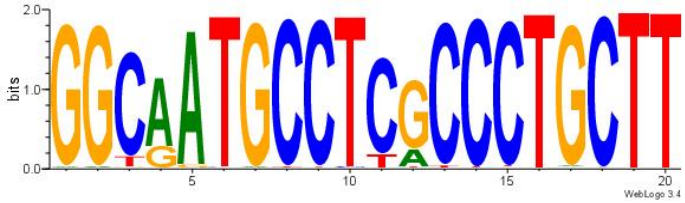

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0972075

Alignment:
AGCCCCGGTTCCCGCYCGC
------GCACATGTCGCT-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

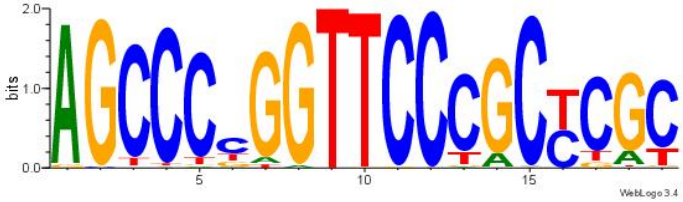

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

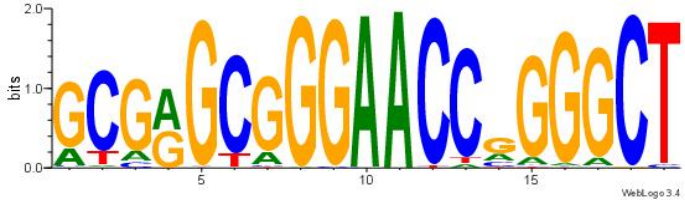

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0972657

Alignment:
GAAAAGCGCAGTATTMGGG
----AGCGACATGTGC---

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

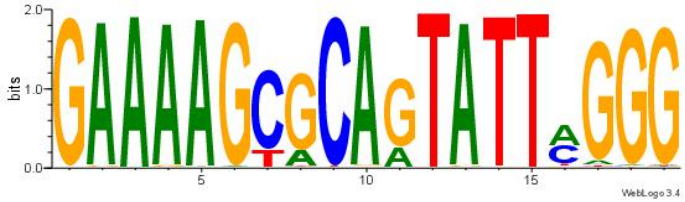

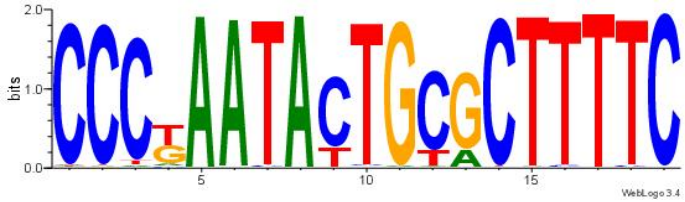

Dataset #:	1
Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0978187

Alignment:

```
AGCCTCCYGAGTA
AGCGACATGTGC-
```

Original motif Consensus sequence: AGCCTCCYGAGTA

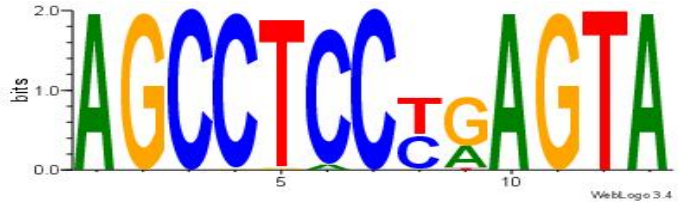

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

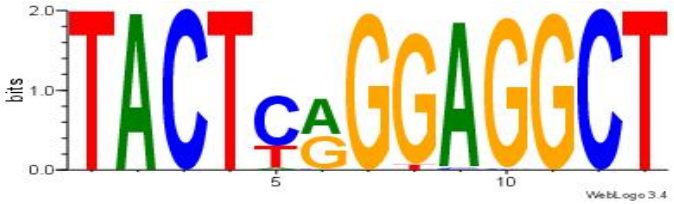

Dataset #:	1
Motif ID:	38

Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0979829

Alignment:

```
GCAGTGAGCYRAGA
--AGCGACATGTGC
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

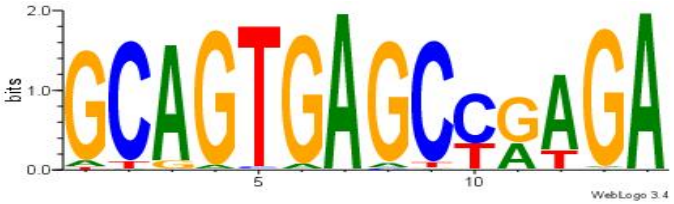

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

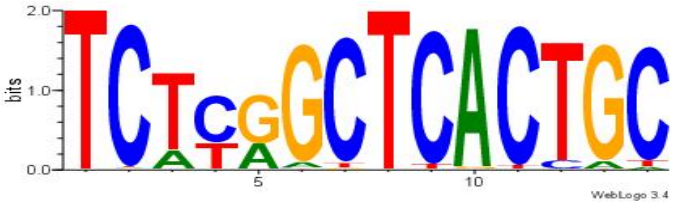

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0983378

Alignment:
AGCTGTGAGAAGAGGGCCAC
---AGCGACATGTGC-----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

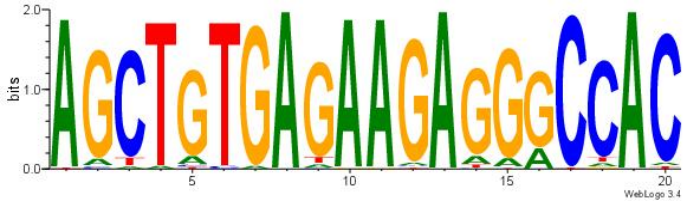

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

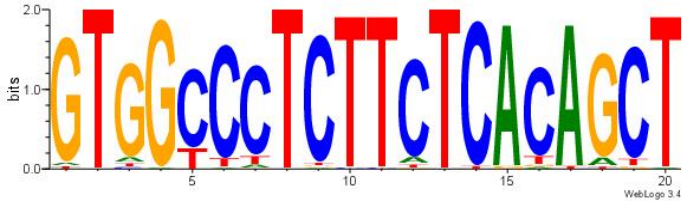

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0983468

Alignment:
GCAGCAMTATTCACAATAG
---GCACATGTCGCT----

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

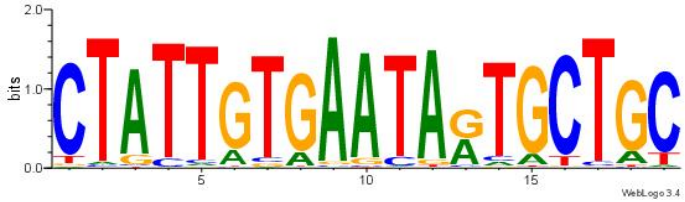

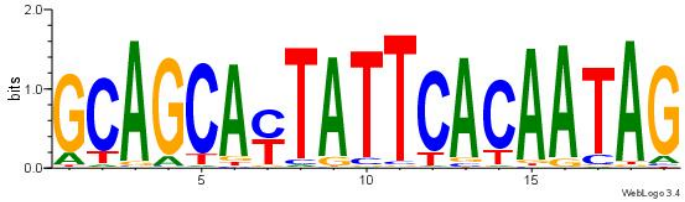

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0984565

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-----AGCGACATGTGC---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

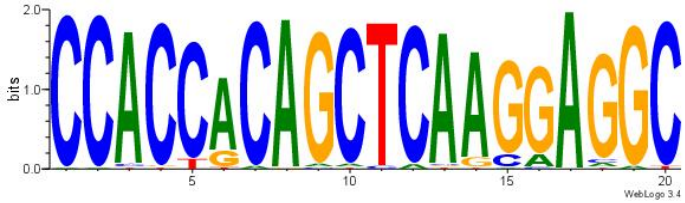

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

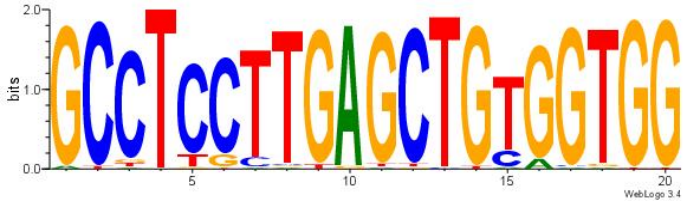

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0988027

Alignment:

```
ACACATCACAAAGCAGTTTC
--------GCACATGTCGCT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

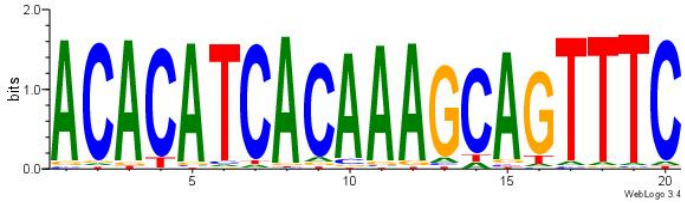

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

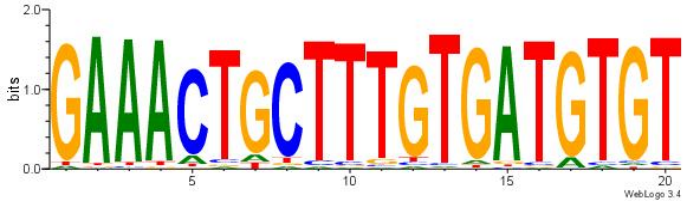

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.0988804

Alignment:
GCTGGCCCKGGTGCTAAGC
---GCACATGTCGCT----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

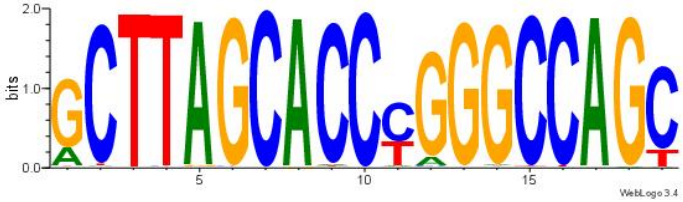

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

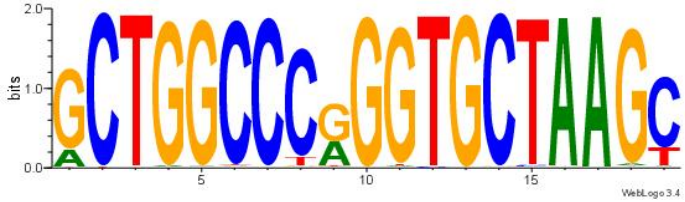

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0998597

Alignment:
AGCTCCCAGCGTGAGCGACG
----AGCGACATGTGC----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

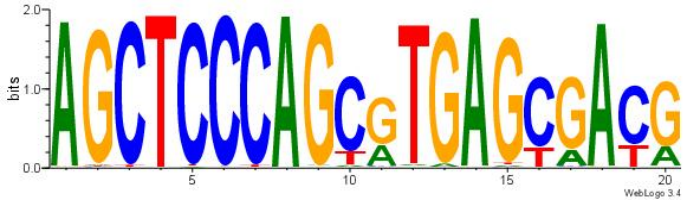

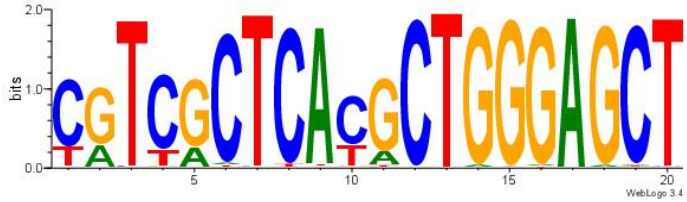

Dataset #: 1 Motif ID: 270 Motif name: Motif 270

Original motif Consensus sequence: CCATGATTGTRAGG

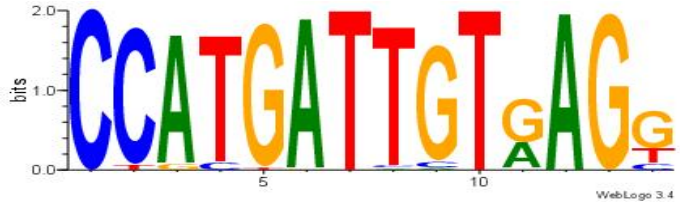

Reverse complement motif Consensus sequence: CCTMACAATCATG

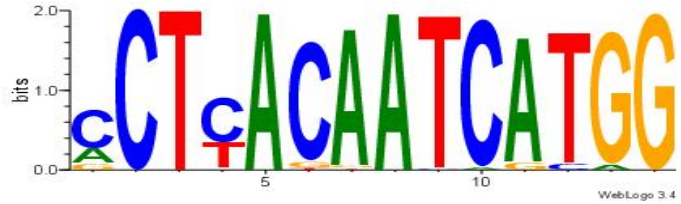

Best Matches for Motif ID 270 (Highest to Lowest)

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0904714

Alignment:

```
CCCTCACTGCCCGGGG
-CCTMACAATCATGG-
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

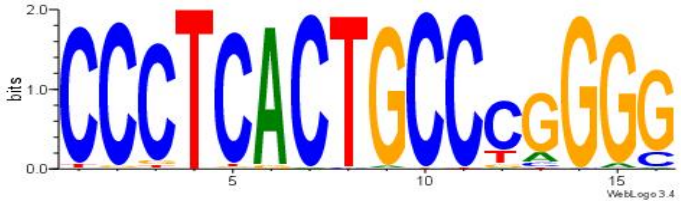

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

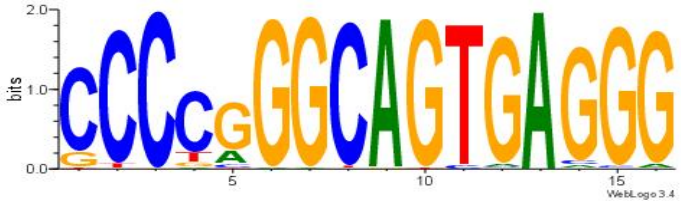

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.091519

Alignment:

```
CACCTCCCAGACMGGGT
--CCTMACAATCATGG-
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

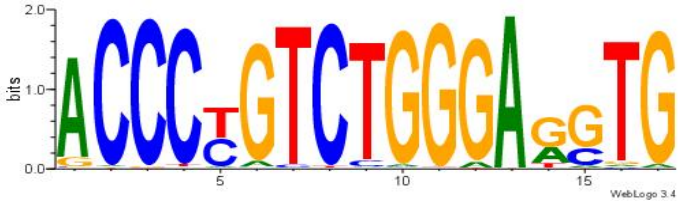

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

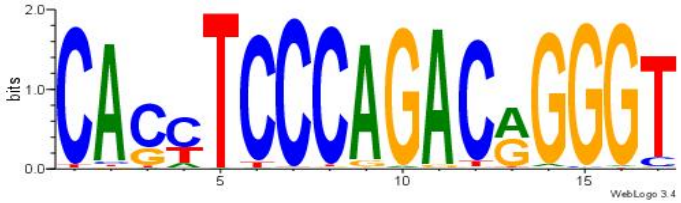

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0977764

Alignment:

```
CAATGATAGACTGGAT
--CCATGATTGTRAGG
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

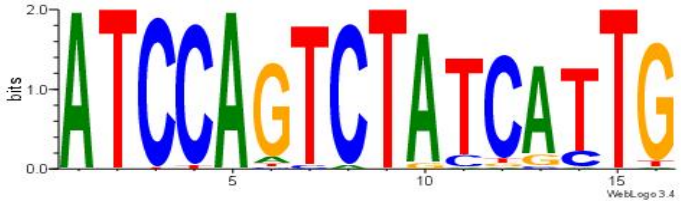

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

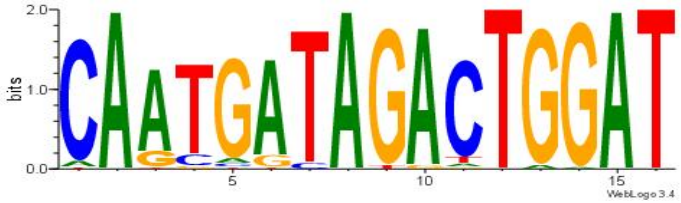

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 14
Similarity score: 0.0983227

Alignment:
AAAATCACAAGCATTCCTAT
----CCTMACAATCATGG--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

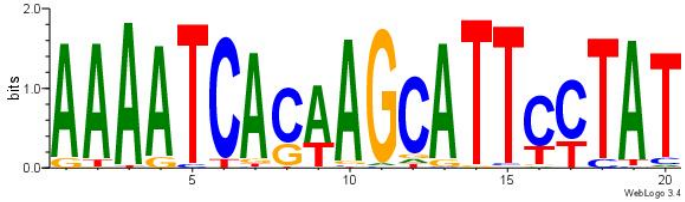

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

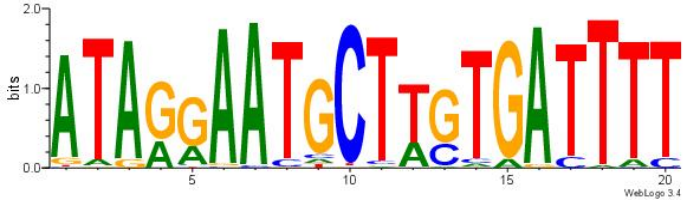

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.0984147

Alignment:
GTAACACTCACCGCGARGGT
-CCTMACAATCATGG-----

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

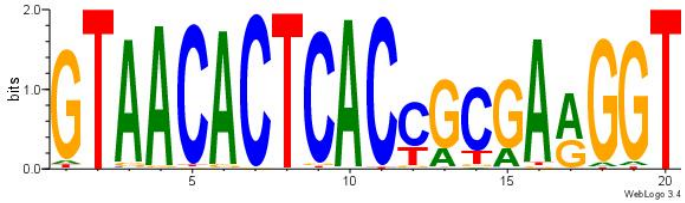

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

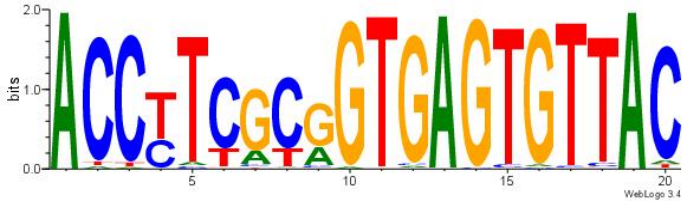

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0985247

Alignment:

```
GGATTTMKGACTTGCATGGG
-----CCTMACAATCATGG-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

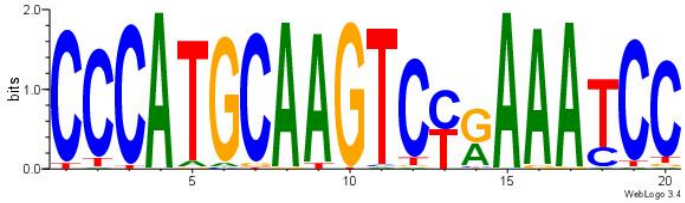

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

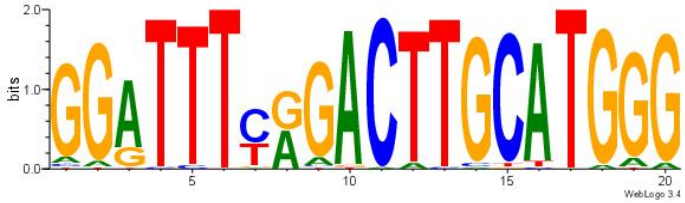

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0996487

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-CCTMACAATCATGG-----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

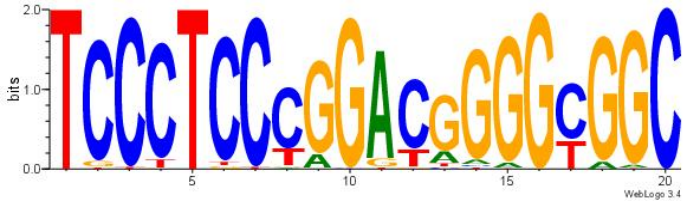

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

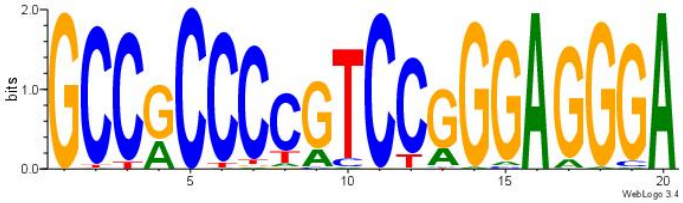

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.101719

Alignment:
GCTTAGCACCYGGGCCAGC
-----CCTMACAATCATGG

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

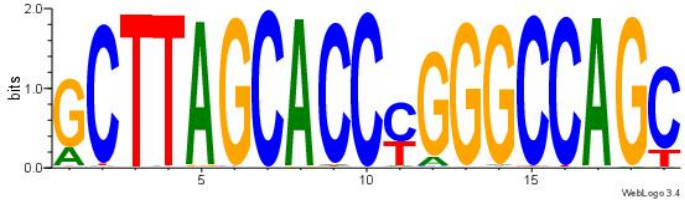

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

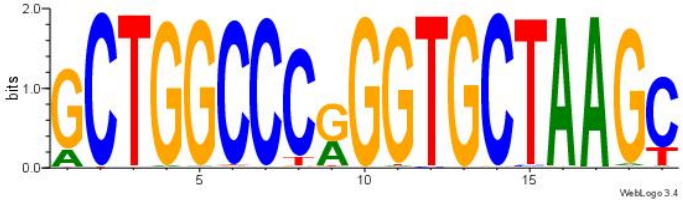

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.102144

Alignment:
ATATTGATGATCCTGACC
----CCATGATTGTRAGG

Original motif Consensus sequence: ATATTGATGATCCTGACC

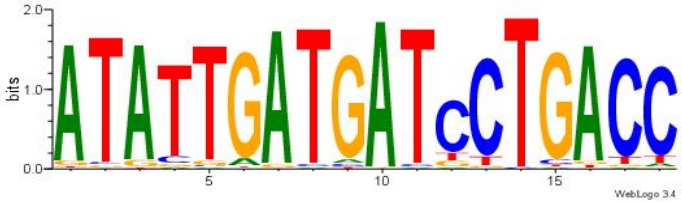

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

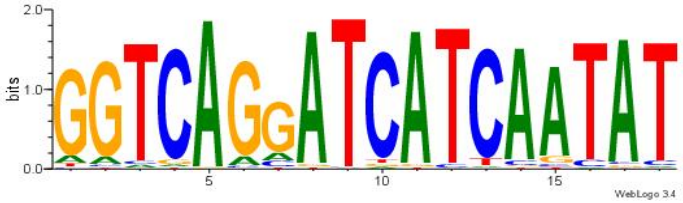

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.103843

Alignment:

```
KACATTGATTTTGTATC
--CCATGATTGTRAGG-
```

Original motif Consensus sequence: GATACAAAATCAATGTR

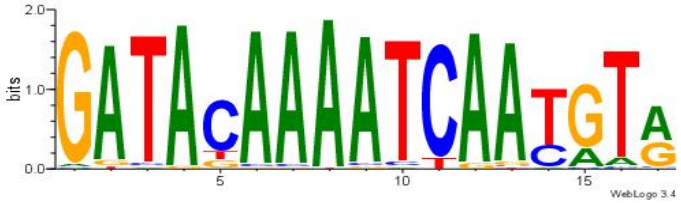

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

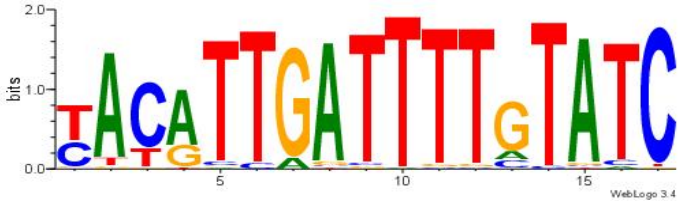

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.104812

Alignment:

```
GTTTAACCATTGAGGGCCAG
-CCTMACAATCATGG-----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

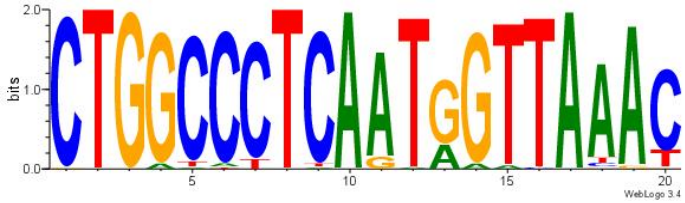

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

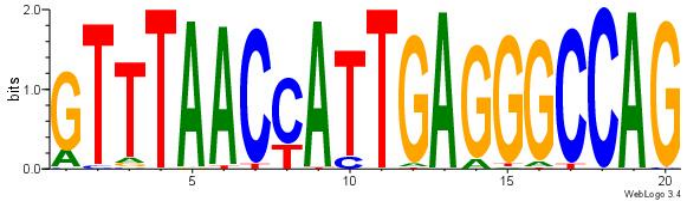

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.105126

Alignment:
CMCAGTTCACAATAGGGTT
----CCTMACAATCATGG-

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

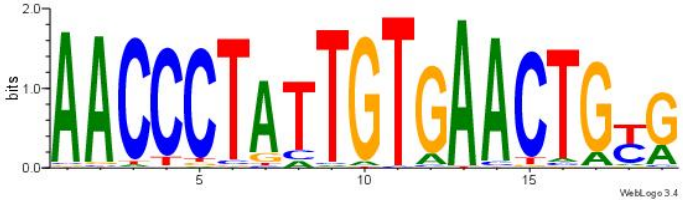

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

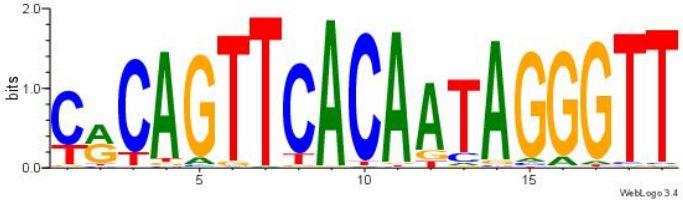

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.10559

Alignment:
AAGTCTCCCAATTACAACT
---CCTMACAATCATGG--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

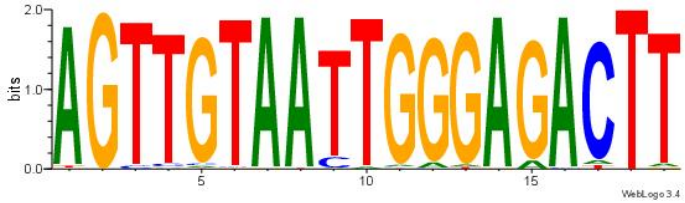

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

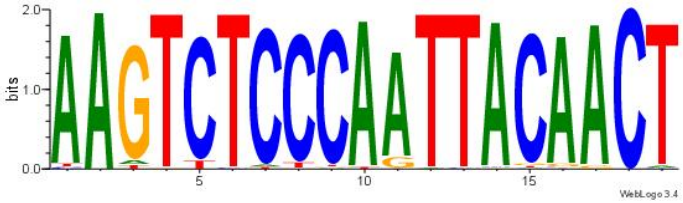

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.107858

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
----CCATGATTGTRAGG--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

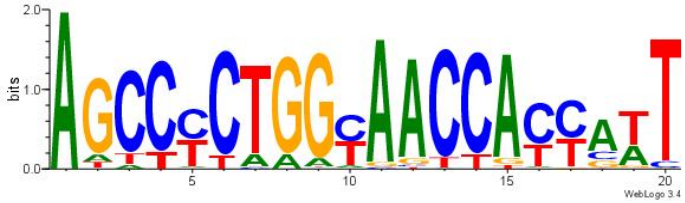

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

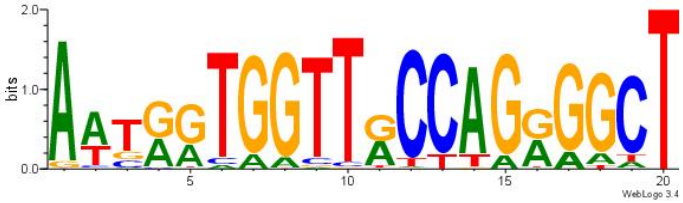

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.108726

Alignment:

```
AACAACASACACTGGGGCCT
--CCTMACAATCATGG----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

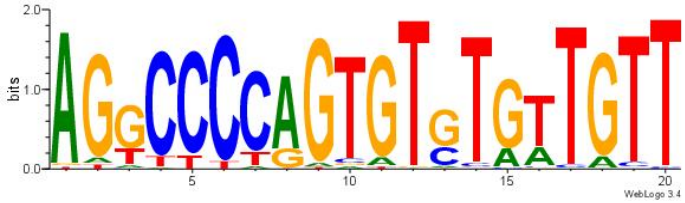

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

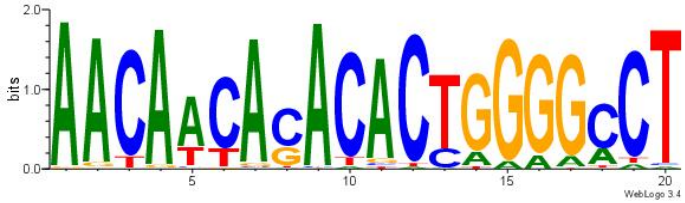

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.109725

Alignment:
CACTTCCCAGACGGGGCG
--CCTMACAATCATGG--

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

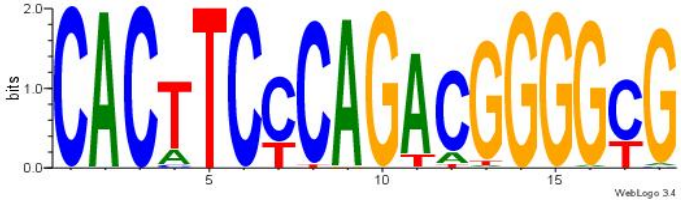

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

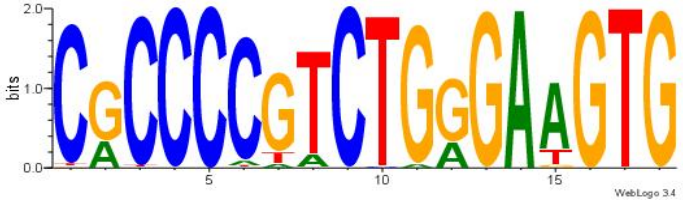

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.109823

Alignment:
TGCCCAGTCTGGAAAGTG
---CCATGATTGTRAGG-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

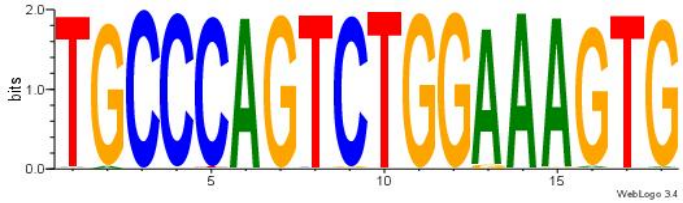

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

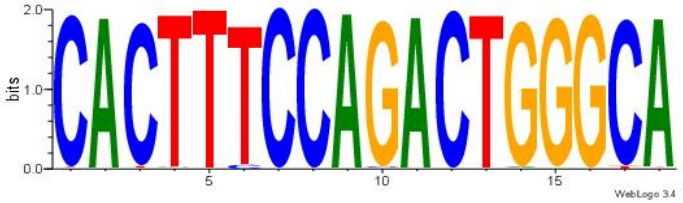

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.110232

Alignment:

```
TGTTATGCCTGAAAGT
--CCATGATTGTRAGG
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

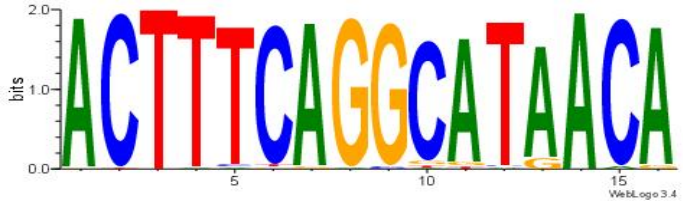

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

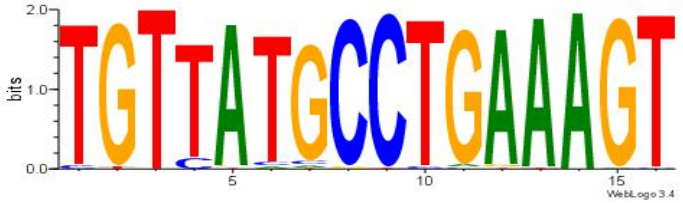

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.11072

Alignment:

```
ATTCAASATGAGATTTGGG
CCATGATTGTRAGG-----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

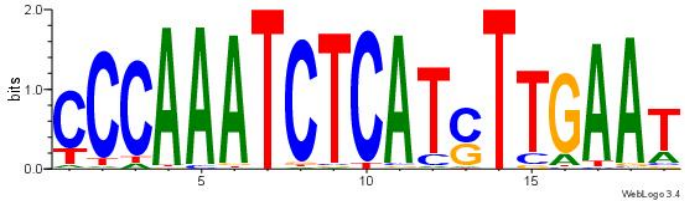

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

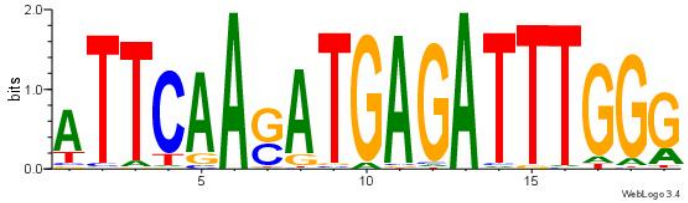

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 14
Similarity score: 0.111096

Alignment:
AGAGCCAAATCATGARTGAA
-CCTMACAATCATGG-----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

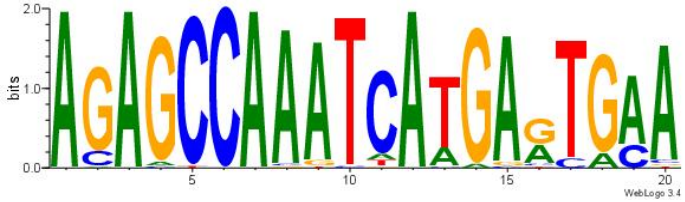

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

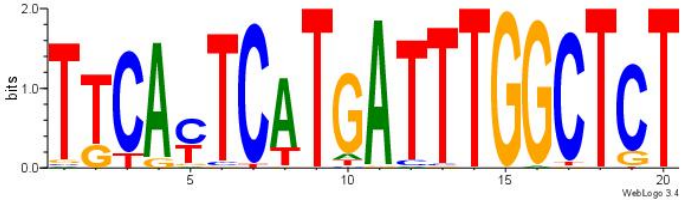

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.111374

Alignment:
CACCAGACTCAGGAGCCCAG
CCTMACAATCATGG------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

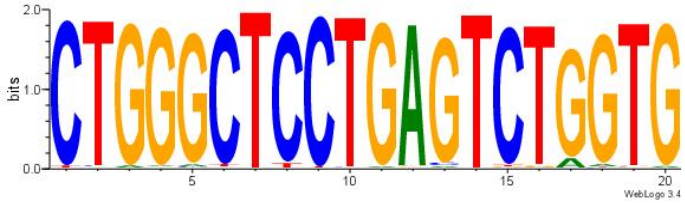

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

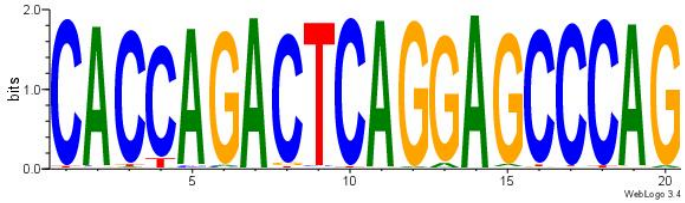

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.111692

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
-CCTMACAATCATGG-----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

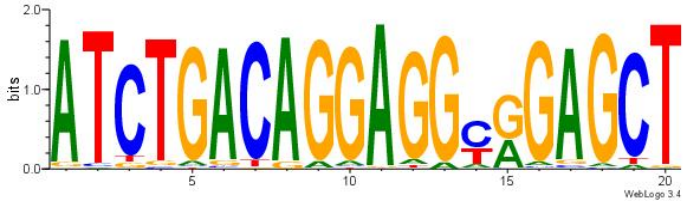

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

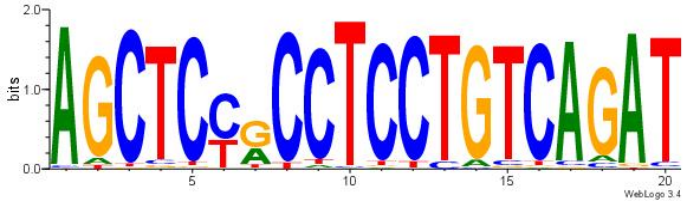

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.111812

Alignment:

```
AGTTCTTAAAGATGGT
-CCTMACAATCATGG-
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

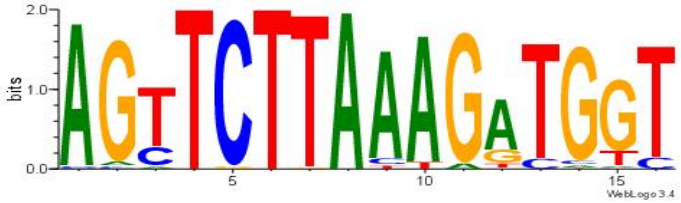

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

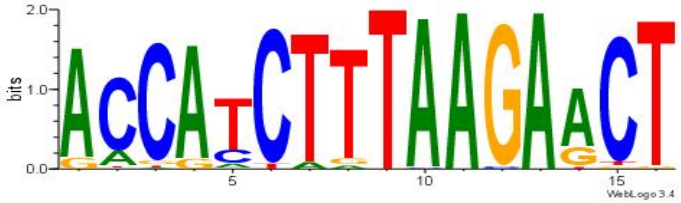

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.112275

Alignment:
CGTCGCTCACGCTGGGAGCT
--CCTMACAATCATGG----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

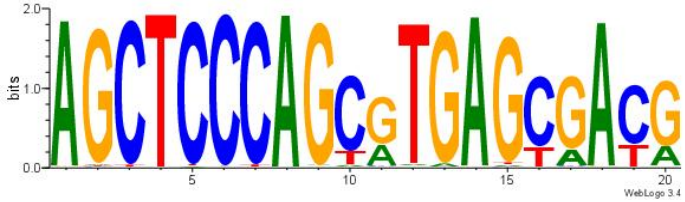

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

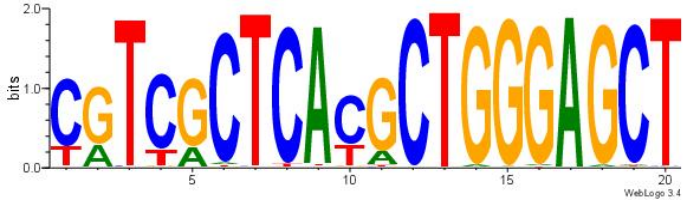

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.112787

Alignment:
GAAACTGCTTTGTGATGTGT
---CCATGATTGTRAGG---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

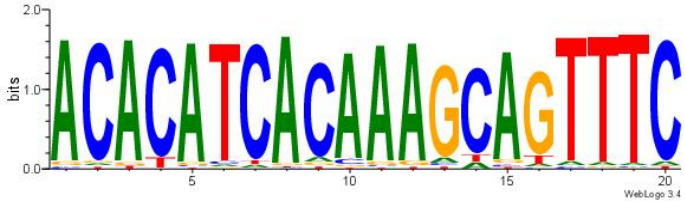

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

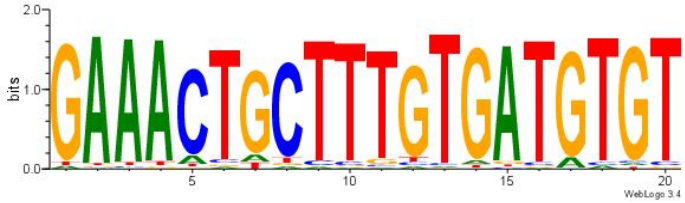

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.112881

Alignment:

```
GAAAAGCGCAGTATTMGGG
CCTMACAATCATGG-----
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

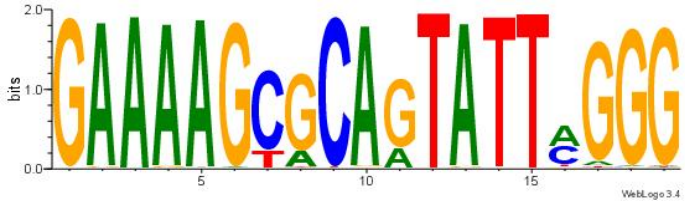

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

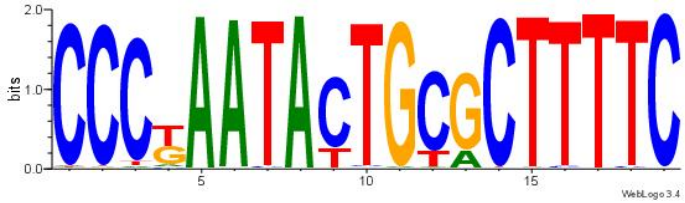

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.113221

Alignment:

```
CTCAGGAATGGAAAACC
-CCATGATTGTRAGG--
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

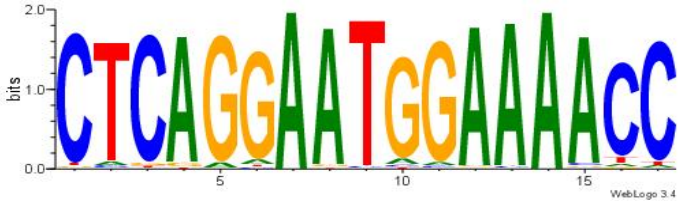

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

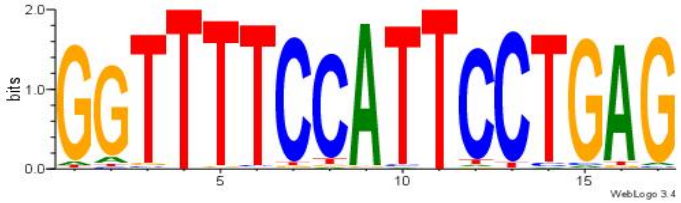

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.114617

Alignment:
TAATAAGGGTGTGGG
-CCATGATTGTRAGG

Original motif Consensus sequence: CCCACACCCTTATTA

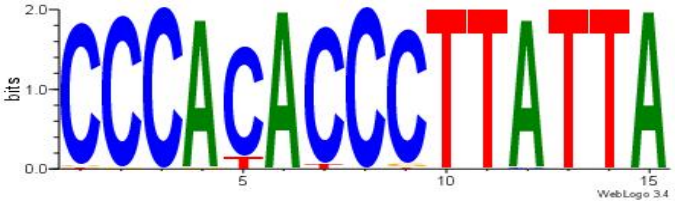

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

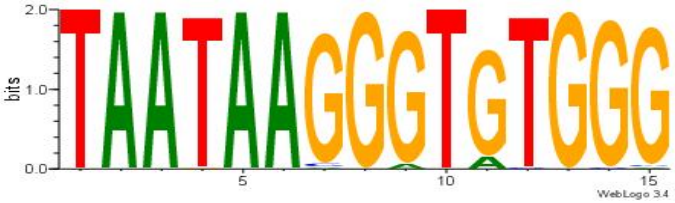

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.114782

Alignment:
KKCACCTTGATCTTGGACTT
--CCATGATTGTRAGG----

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

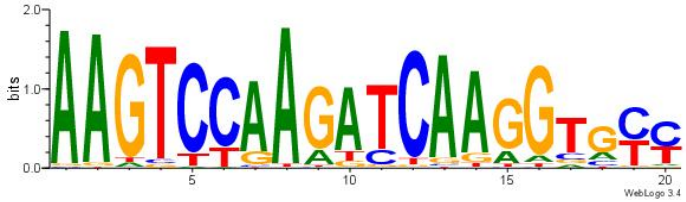

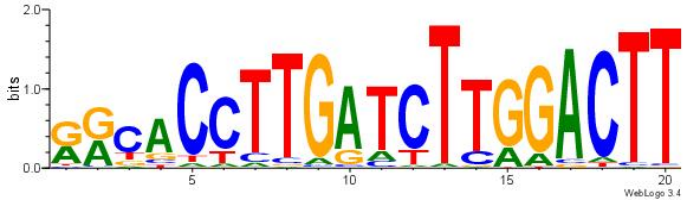

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.114936

Alignment:

```
GCACTGAGTGAACGA
-CCATGATTGTRAGG
```

Original motif Consensus sequence: GCACTGAGTGAACGA

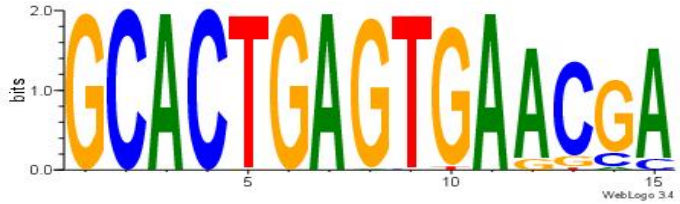

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

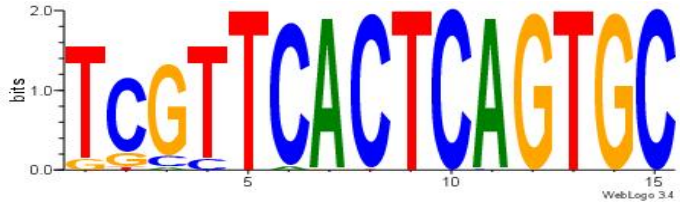

Dataset #:	1
Motif ID:	280

Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.116076

Alignment:

```
CCTAGATTTCAGARGATGT
-CCATGATTGTRAGG----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

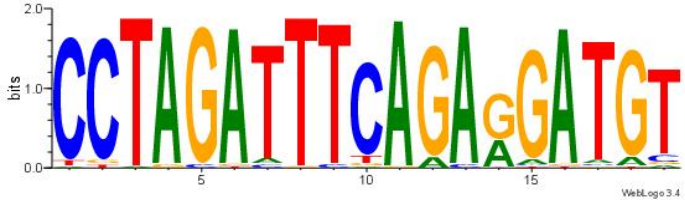

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

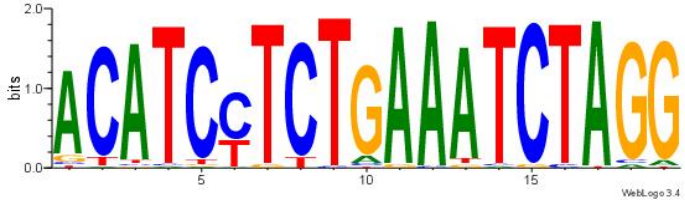

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.116146

Alignment:
CTCCTGCCTCAGCCTCCCRA
CCTMACAATCATGG------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

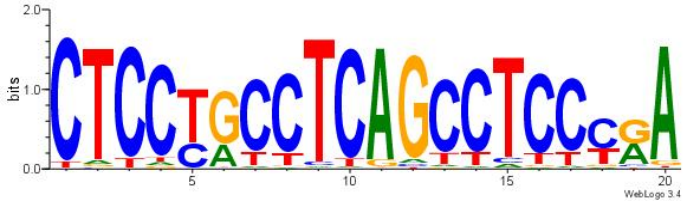

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

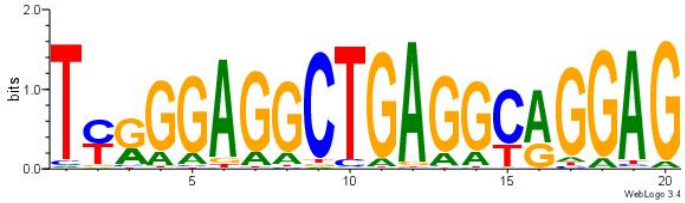

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.116147

Alignment:
AGGASCSTCYSWGCCMGGY
CCTMACAATCATGG-----

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

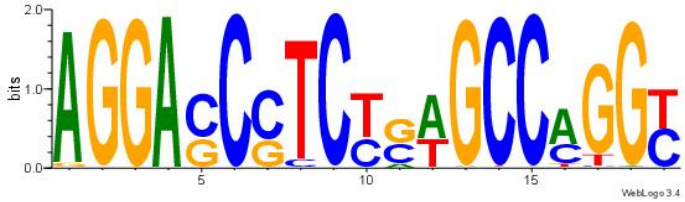

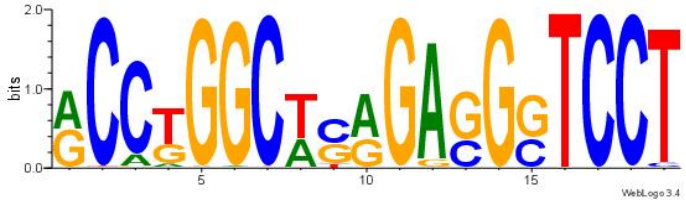

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.118196

Alignment:
CAAASCKGTCATAGGCCAT
CCTMACAATCATGG-----

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

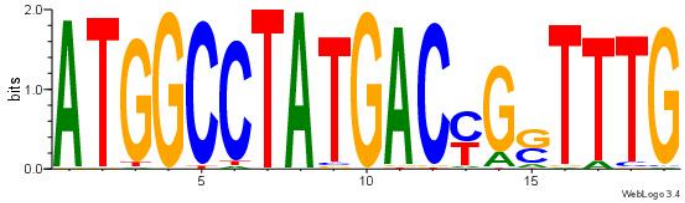

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

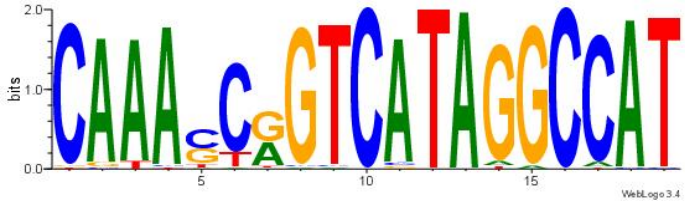

Dataset #: 1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.118393

Alignment:

```
ACATCCCAGACGATGGGCG
----CCATGATTGTRAGG-
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

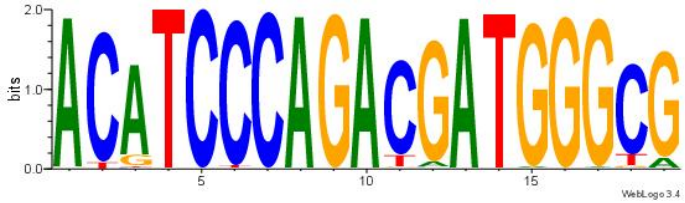

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

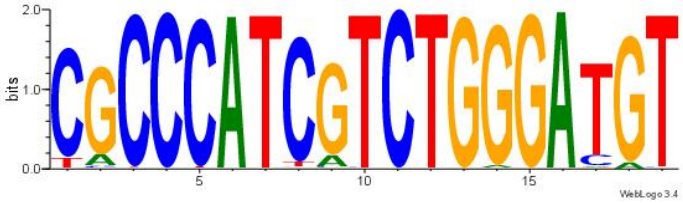

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.119104

Alignment:
TGCTCACACAAAGCCTGT
---CCTMACAATCATGG-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

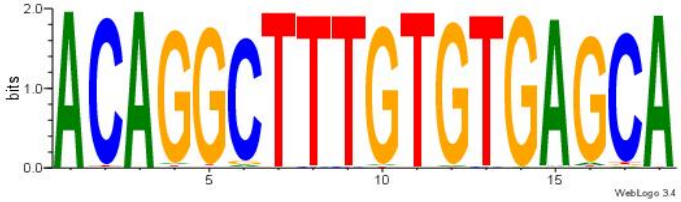

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

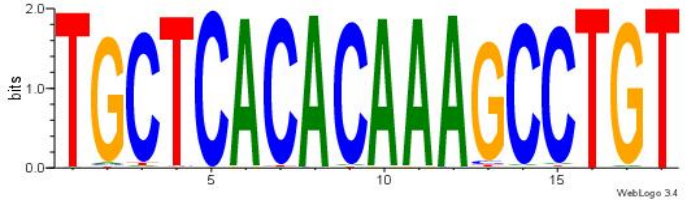

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.11976

Alignment:
GACATGGAGTCAAAGG
--CCATGATTGTRAGG

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

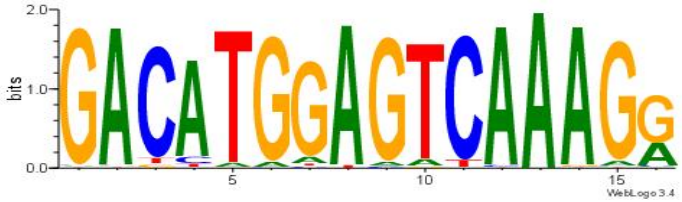

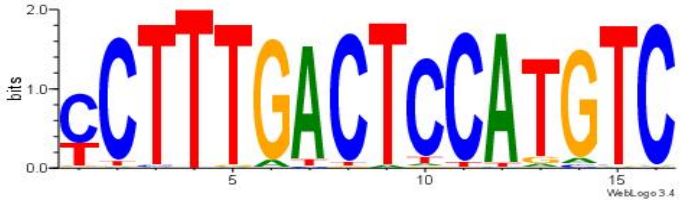

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.119979

Alignment:

```
TTTTCACATGCCTTTCT
-CCTMACAATCATGG--
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

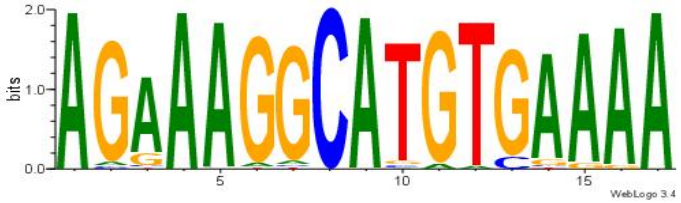

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

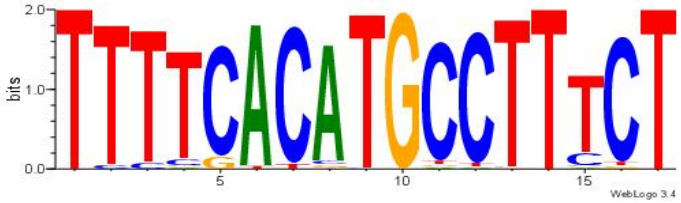

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.12003

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
----CCATGATTGTRAGG--
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

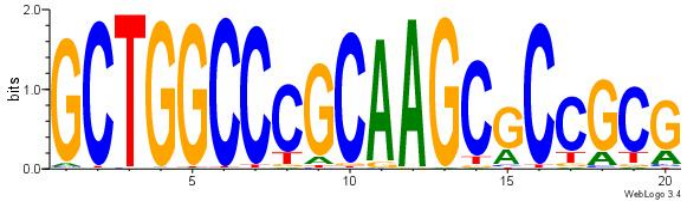

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

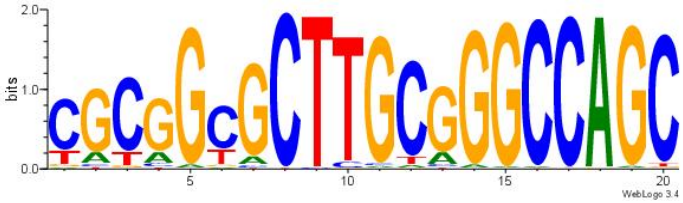

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.120102

Alignment:
ACCTGGAAAATCGGGTCACT
-----CCTMACAATCATGG-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

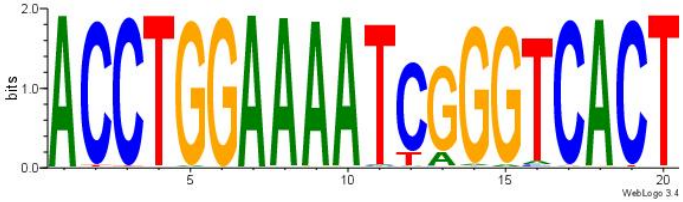

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

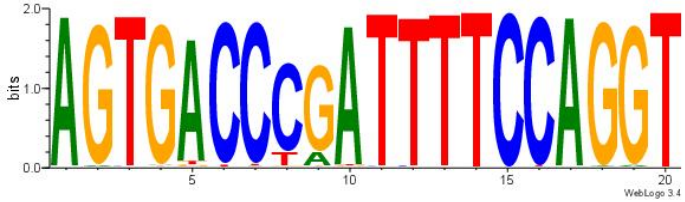

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.120269

Alignment:
GGGCTCCCACAGTGCAGCGG
----CCTMACAATCATGG--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

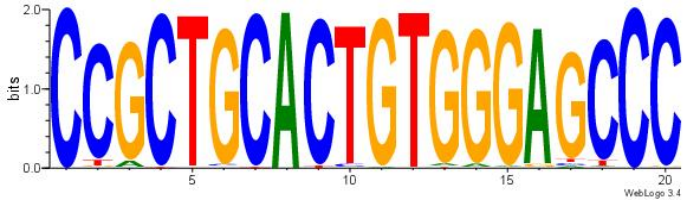

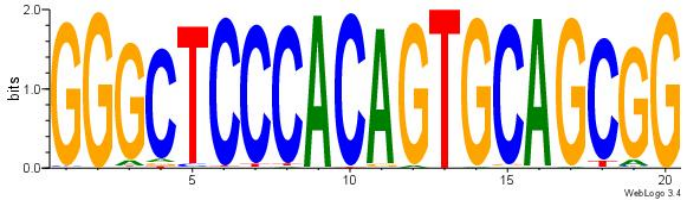

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.121359

Alignment:

```
CAACATGGATGRARCTGGAG
--CCATGATTGTRAGG----
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

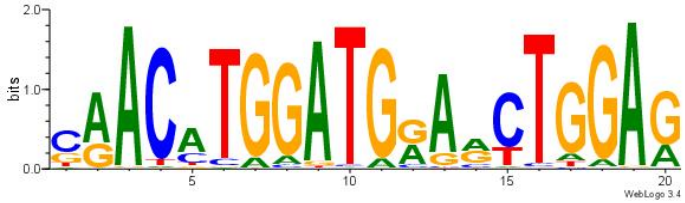

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

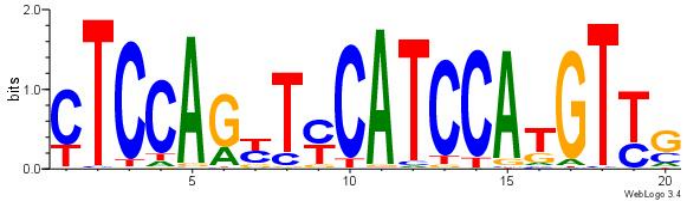

Dataset #: 1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.122115

Alignment:

```
GCCACCAMGCCMKGCTAAT
CCTMACAATCATGG-----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

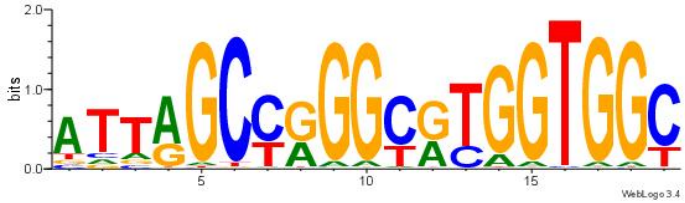

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

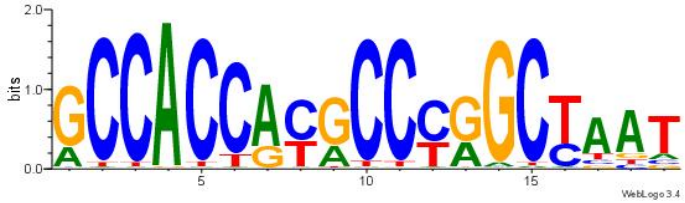

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.122414

Alignment:
CAAAGGCATAAGAATGAT
-CCTMACAATCATGG---

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

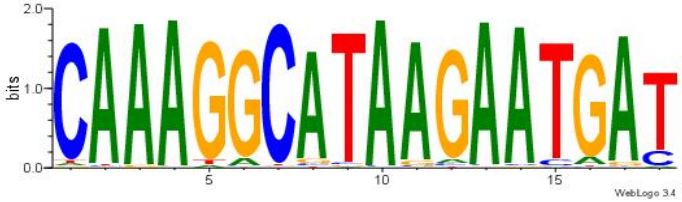

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

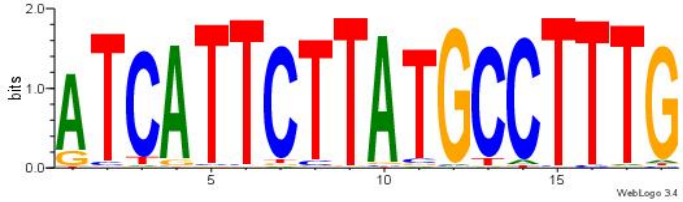

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.123133

Alignment:
AATCAACCCTGGYRATCAAT
------CCATGATTGTRAGG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

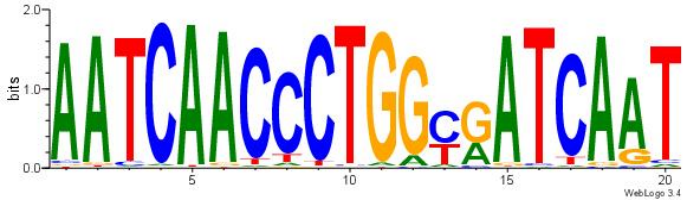

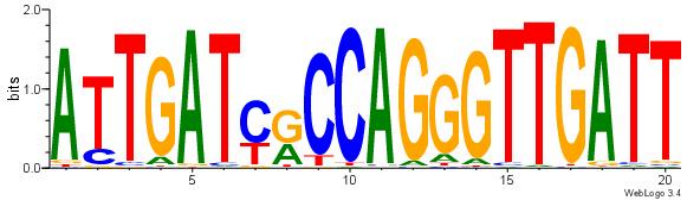

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.123438

Alignment:

```
GCTCCACCCAGTTCGAGCTT
---CCTMACAATCATGG---
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

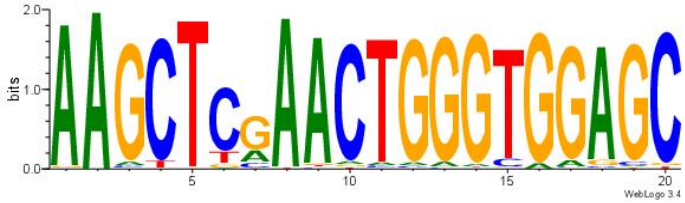

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

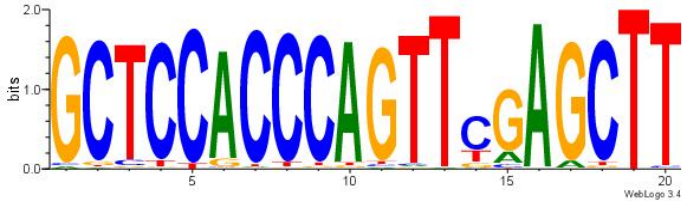

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.123799

Alignment:

```
CACCAGGAGATTATATCCCR
--CCATGATTGTRAGG----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

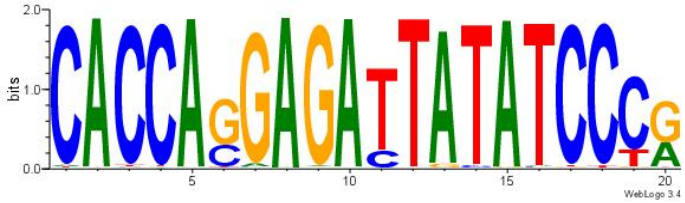

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

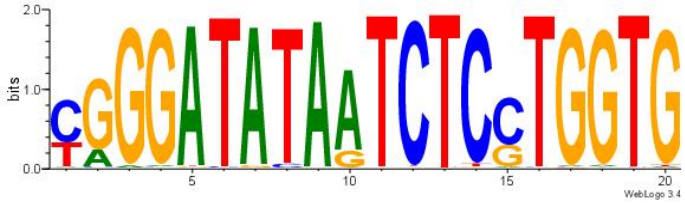

Dataset #:	1
Motif ID:	217
Motif name:	Motif 217
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.123943

Alignment:
CCCTACTGTTCTCY
CCTMACAATCATGG

Original motif Consensus sequence: CCCTACTGTTCTCY

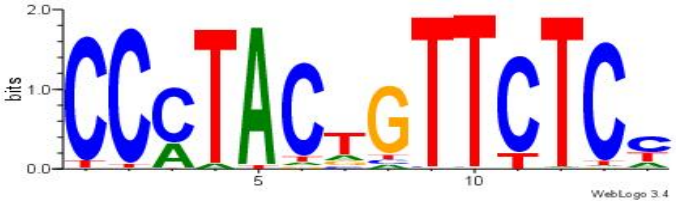

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.124215

Alignment:
CATTTCCAWCTGAGGTAC
----CCTMACAATCATGG

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

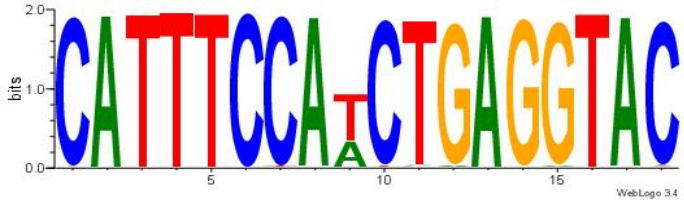

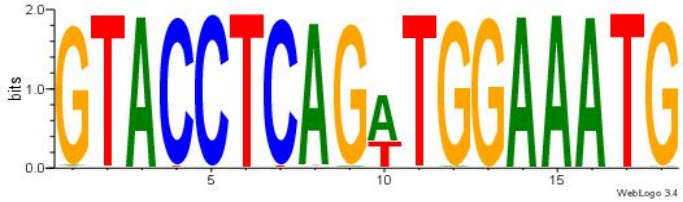

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.124306

Alignment:

```
TGGATGGATGGATGGAT
-CCATGATTGTRAGG--
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

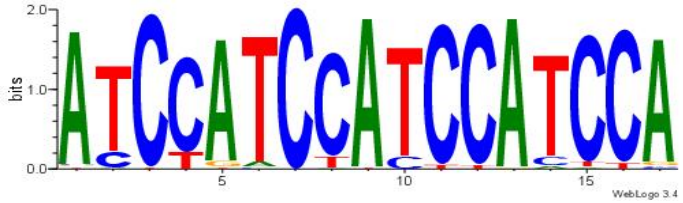

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1 Motif ID: 271 Motif name: Motif 271

Original motif Consensus sequence: AGGGATCTAGGTTGCR

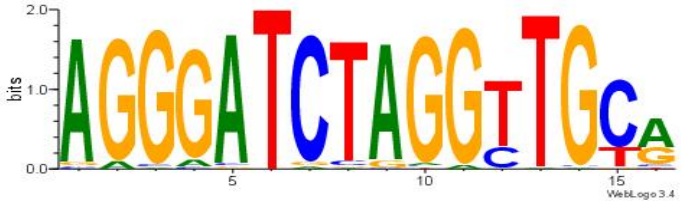

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

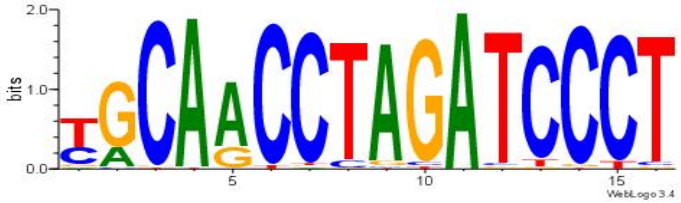

Best Matches for Motif ID 271 (Highest to Lowest)

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0814563

Alignment:

```
AGAGCTCTGGCTGGCATCT
AGGGATCTAGGTTGCR---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

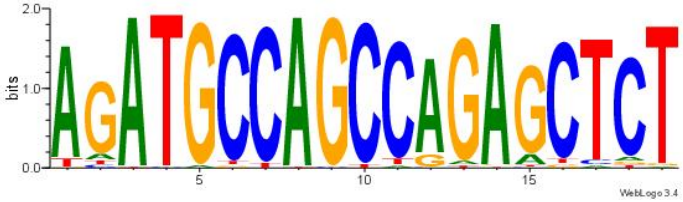

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

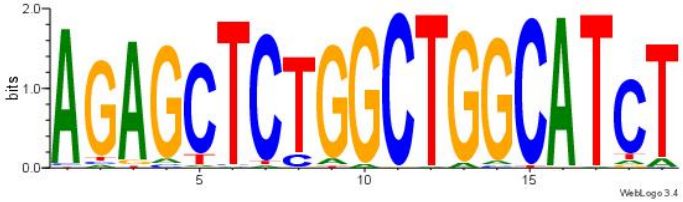

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0869615

Alignment:

```
ATGGACAYTTRGGTTGHTTC
--AGGGATCTAGGTTGCR--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

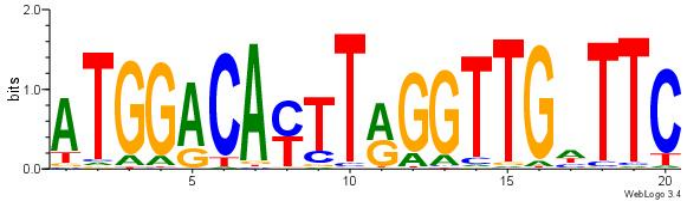

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

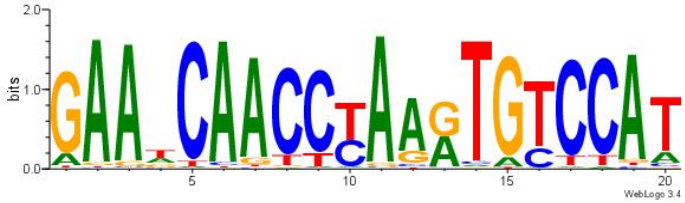

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

Position number: 3
Number of overlap: 16
Similarity score: 0.0921874

Alignment:
GAAGGCAGCTAAGGCCCGGY
--AGGGATCTAGGTTGCR--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

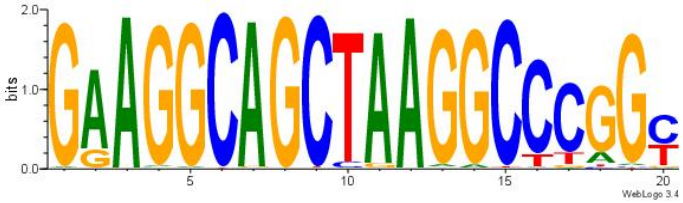

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

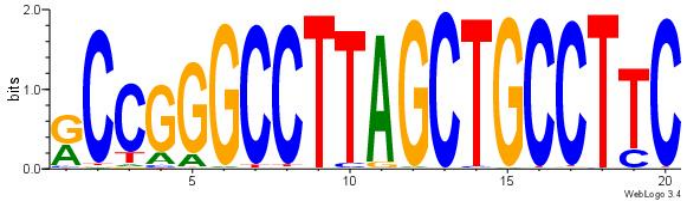

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.096154

Alignment:
CACCAGGAGATTATATCCCR
KGCAACCTAGATCCCT----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

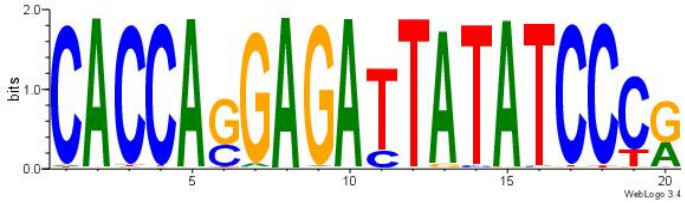

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

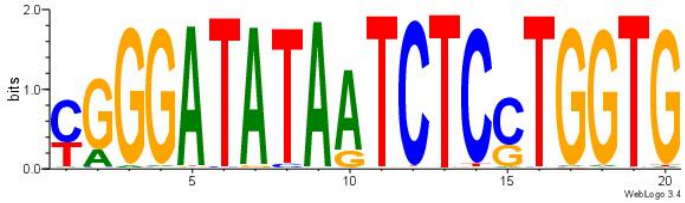

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0980366

Alignment:

```
GGCATCACGGATCCTACCAA
KGCAACCTAGATCCCT----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

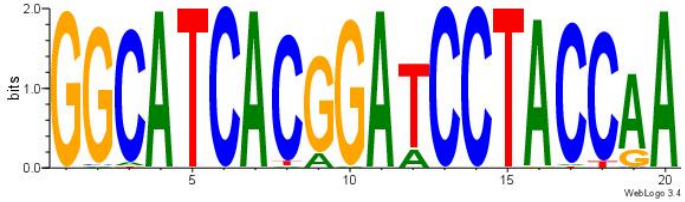

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

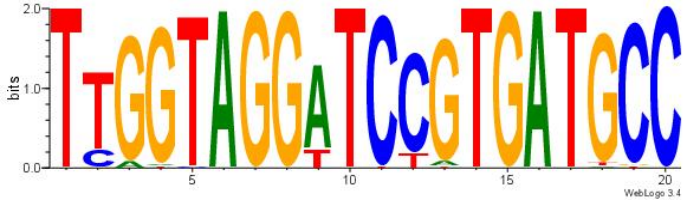

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0986852

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-AGGGATCTAGGTTGCR--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

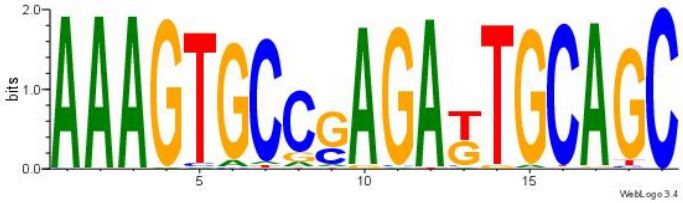

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

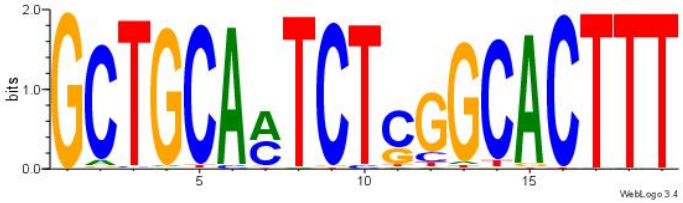

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.0996955

Alignment:
TGGAGAACCTTTATGTCTAG
--KGCAACCTAGATCCCT--

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

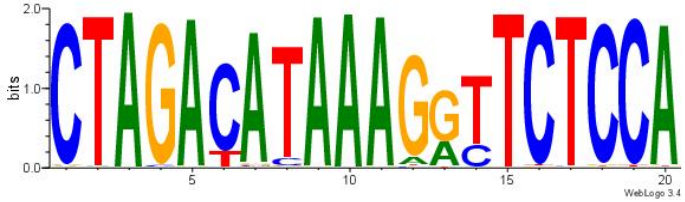

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

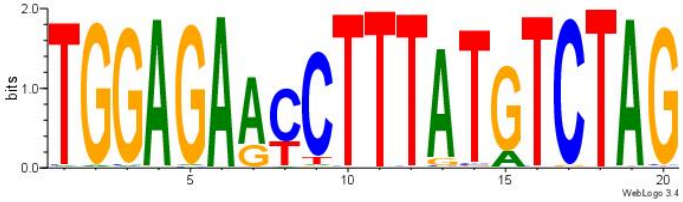

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.104516

Alignment:
GGAGGTGTGGAGGGAGAGGC
--AGGGATCTAGGTTGCR--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

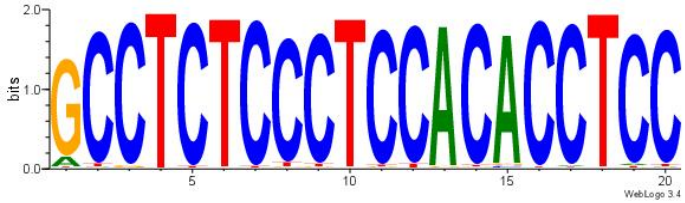

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

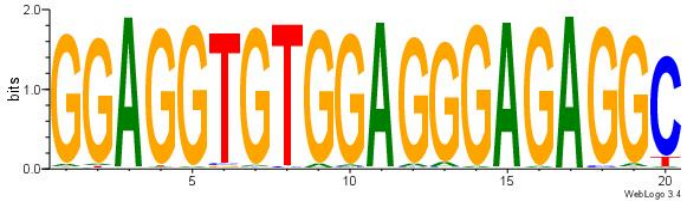

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.105063

Alignment:

```
CCCMKGGCACCCTCAGTCCT
----KGCAACCTAGATCCCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

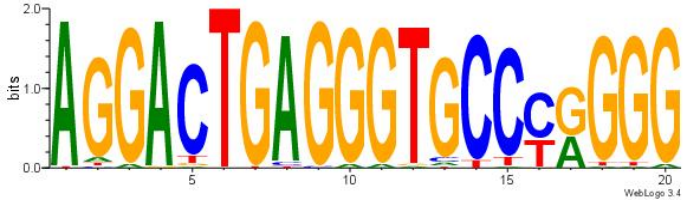

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

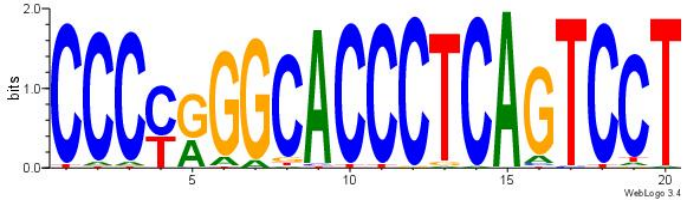

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.105344

Alignment:

```
CAACATGGATGRARCTGGAG
----AGGGATCTAGGTTGCR
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

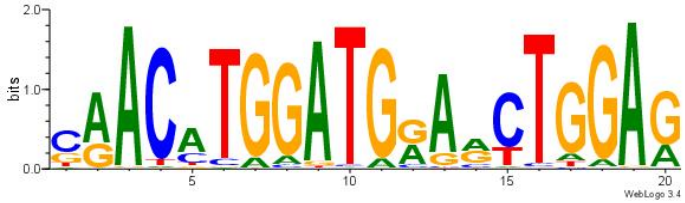

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

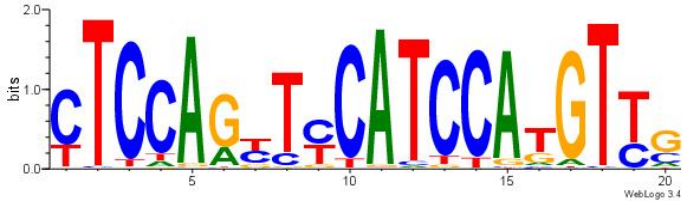

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.105651

Alignment:
GGGTCAGGGAGTTCCCTTTC
-KGCAACCTAGATCCCT---

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

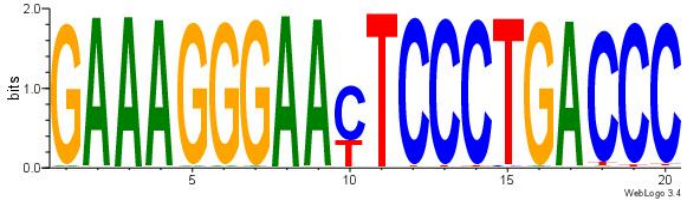

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

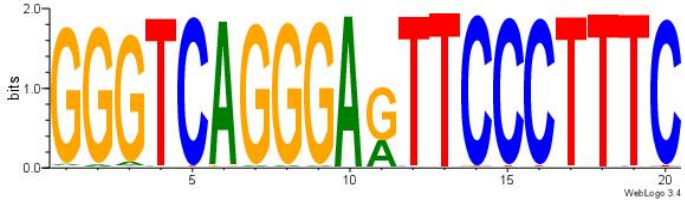

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.105942

Alignment:
CTGAGGACCTGAGGTCRTA
---AGGGATCTAGGTTGCR

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

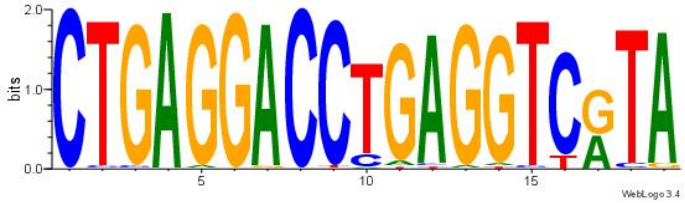

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

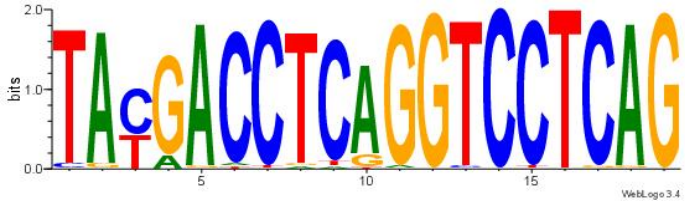

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.107362

Alignment:

```
CAAGGGTATAYGAGTAGCTG
---AGGGATCTAGGTTGCR-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

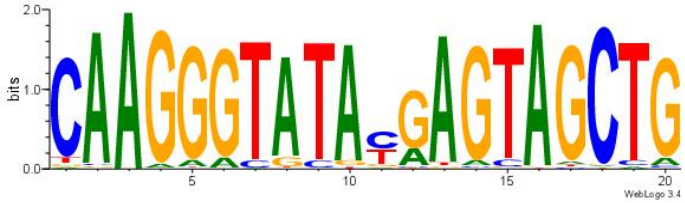

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

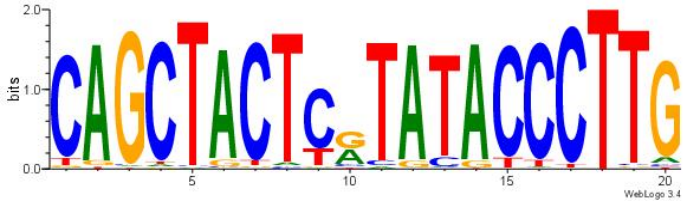

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.108162

Alignment:

```
ATGTAACCAAAYACCACCTG
-KGCAACCTAGATCCCT---
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

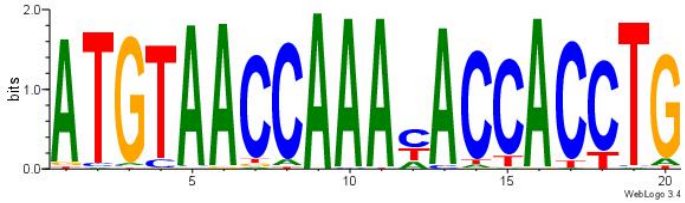

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

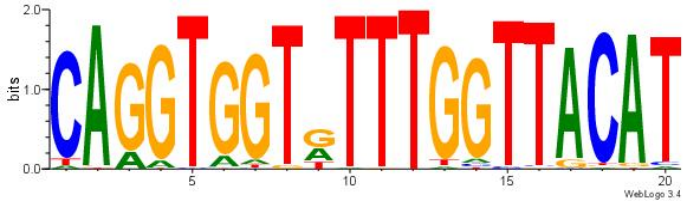

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.11094

Alignment:
GCTCCACCCAGTTCGAGCTT
-KGCAACCTAGATCCCT---

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

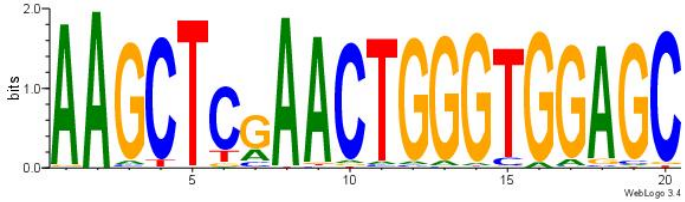

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

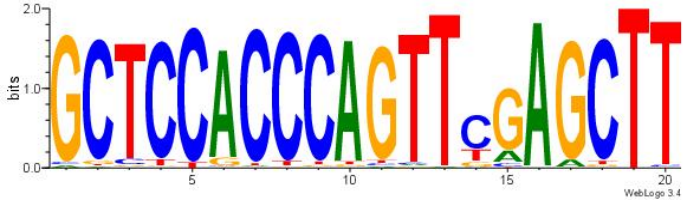

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.111298

Alignment:
AAGAGGTTTAATTGRCTCA
-AGGGATCTAGGTTGCR--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

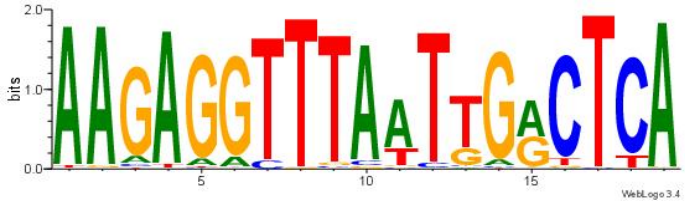

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

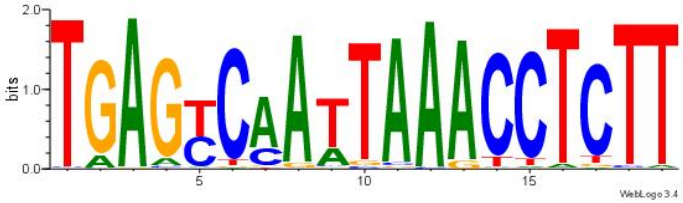

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.111617

Alignment:

```
AGTGACCCGATTTTCCAGGT
----AGGGATCTAGGTTGCR
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

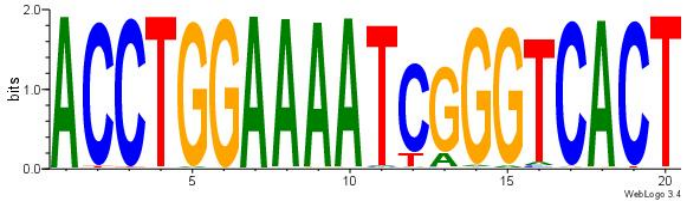

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

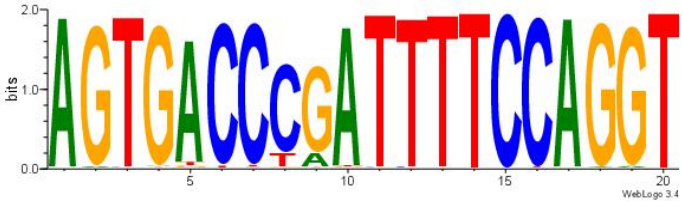

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.114764

Alignment:

```
GGCAATGCCTCGCCCTGCTT
KGCAACCTAGATCCCT----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

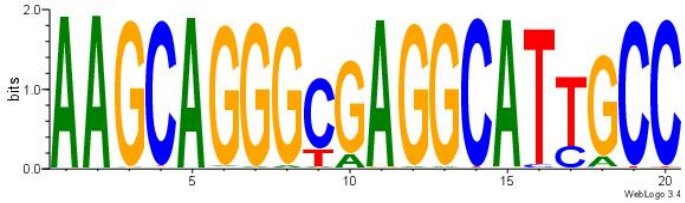

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

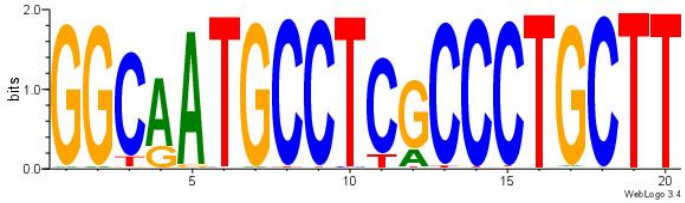

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.11533

Alignment:
CGGCGCTGMGCTCGATTTCT
----KGCAACCTAGATCCCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

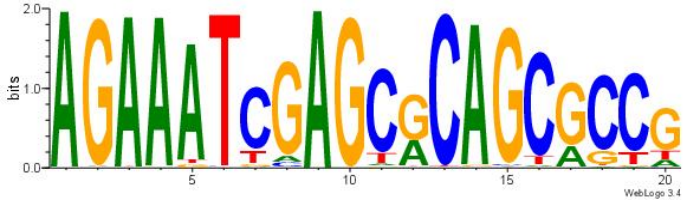

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

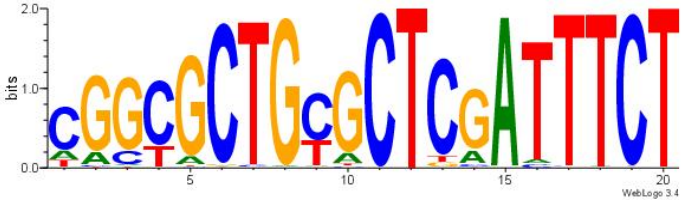

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.116431

Alignment:
ACACATCACAAAGCAGTTTC
---KGCAACCTAGATCCCT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

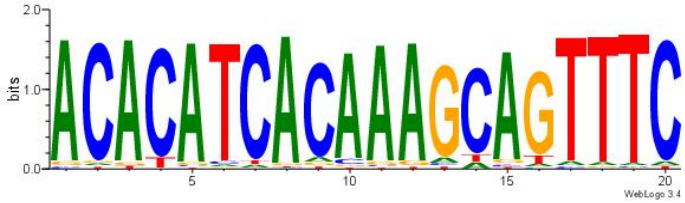

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

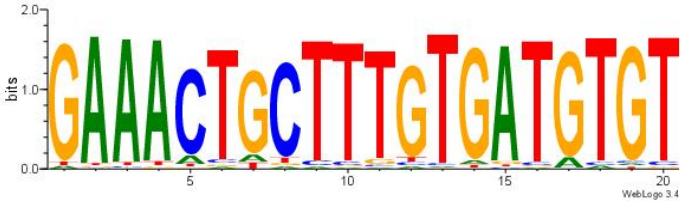

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.11703

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
---AGGGATCTAGGTTGCR-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

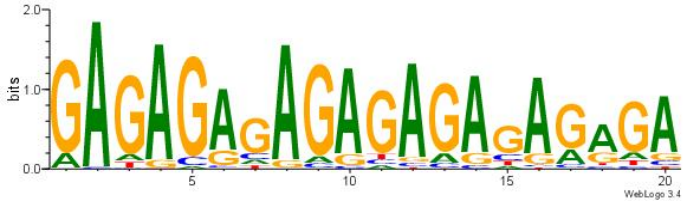

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

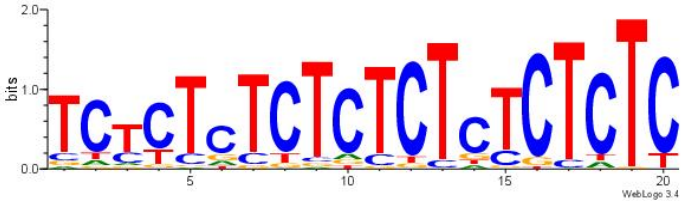

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.117331

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-AGGGATCTAGGTTGCR---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

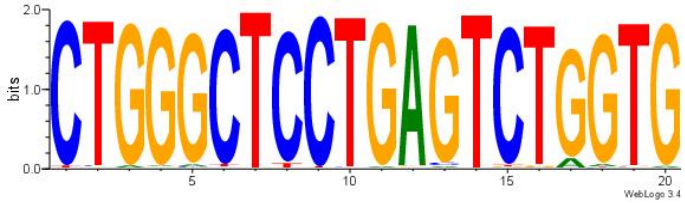

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

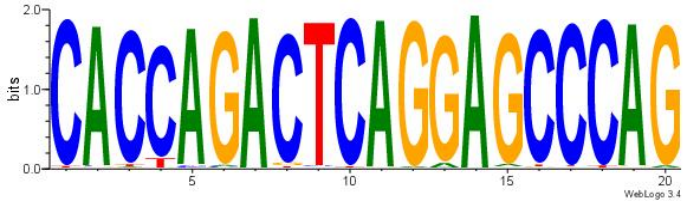

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.117653

Alignment:
TGCTCACACAAAGCCTGT
KGCAACCTAGATCCCT--

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

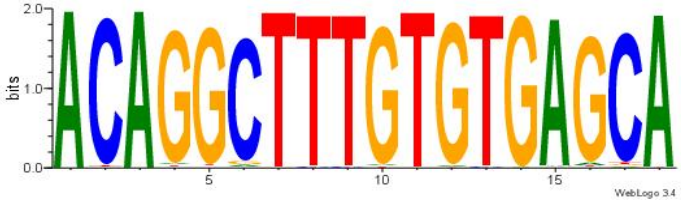

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

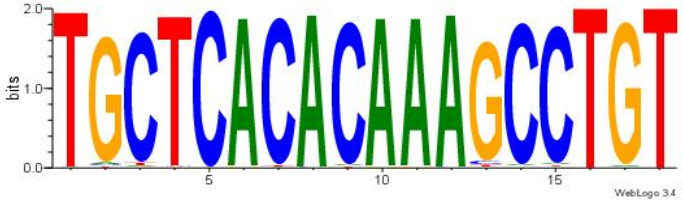

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.117976

Alignment:
AAAGCTGGAGCTATTATCTA
----AGGGATCTAGGTTGCR

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

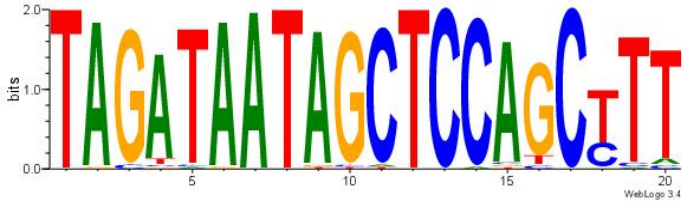

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

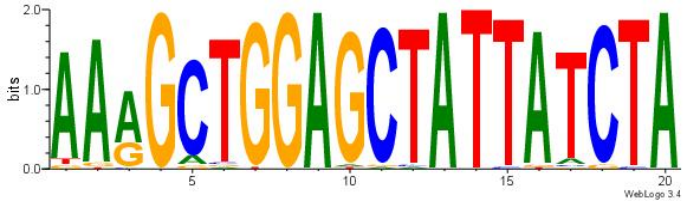

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.118788

Alignment:

```
GGGCTCCCACAGTGCAGCGG
----AGGGATCTAGGTTGCR
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

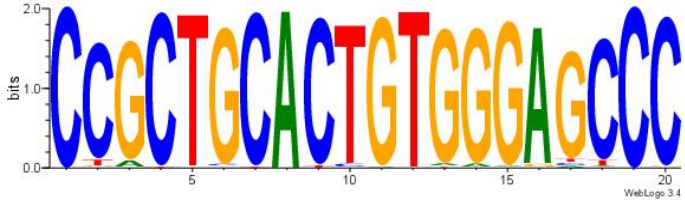

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

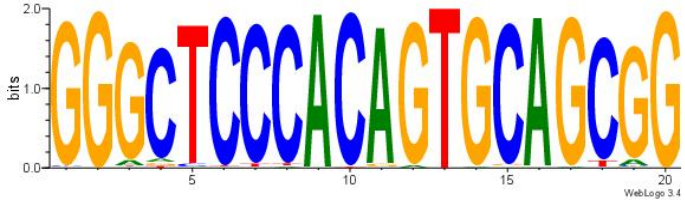

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.11886

Alignment:

```
CTCAGTGTTAATCTCCTGTC
----KGCAACCTAGATCCCT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

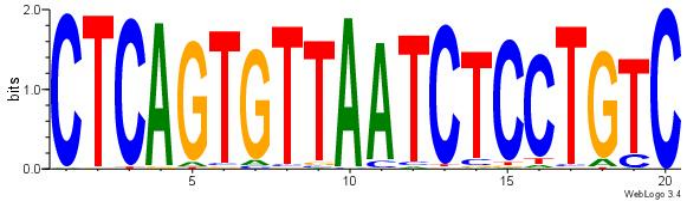

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

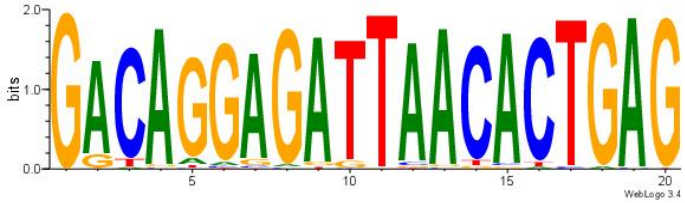

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.119041

Alignment:
GGGATTGTAAATACACCAAT
KGCAACCTAGATCCCT----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

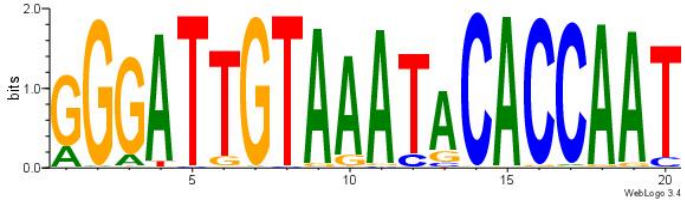

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.119674

Alignment:
AGGASCSTCYSWGCCMGGY
---KGCAACCTAGATCCCT

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

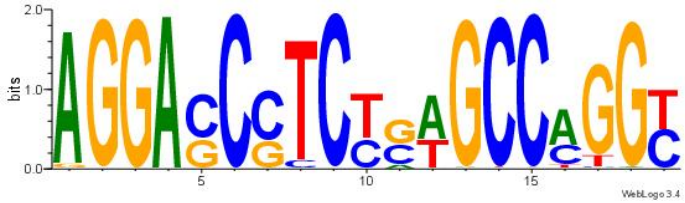

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

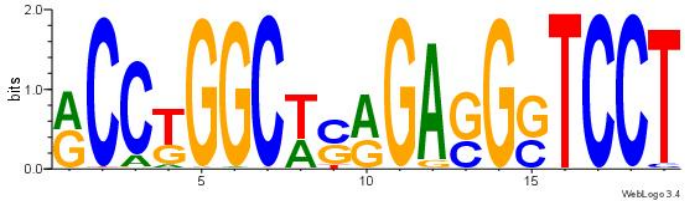

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.120386

Alignment:

```
ACCATCTTTAAGAACT
KGCAACCTAGATCCCT
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

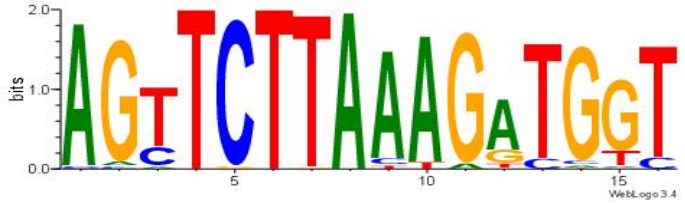

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

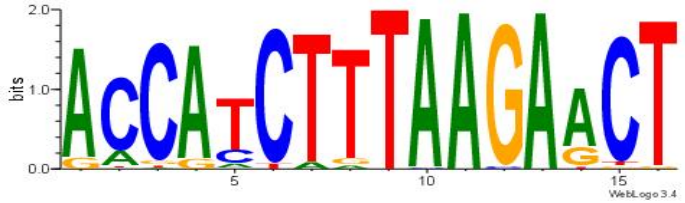

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.120619

Alignment:

```
GACTTCAAGAATGAAGCCG
KGCAACCTAGATCCCT---
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

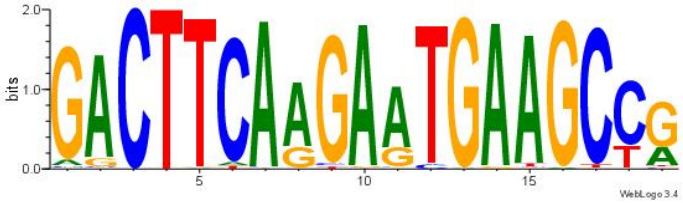

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

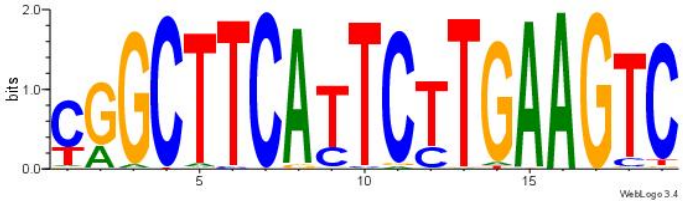

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 16
Similarity score: 0.120865

Alignment:
TTCAMTCATGATTTGGCTCT
KGCAACCTAGATCCCT----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

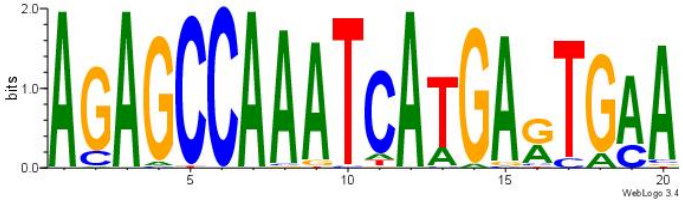

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

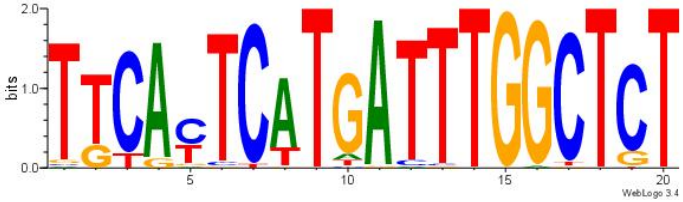

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.120918

Alignment:
CGCGGCGCTTGCGGGCCAGC
---AGGGATCTAGGTTGCR-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

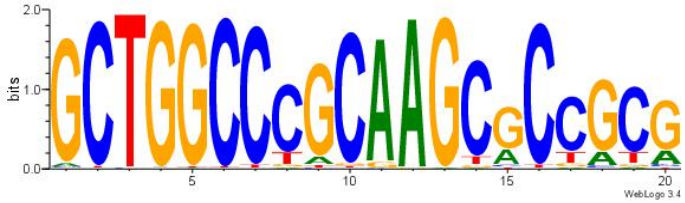

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

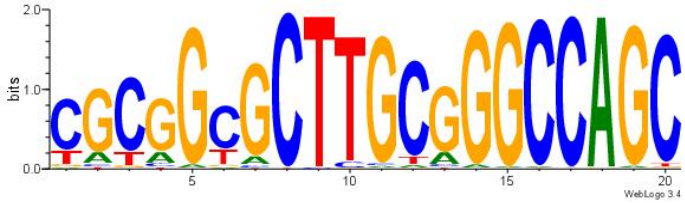

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.121224

Alignment:

```
AAAACCAGCAAGTTTTTAT
--AGGGATCTAGGTTGCR-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

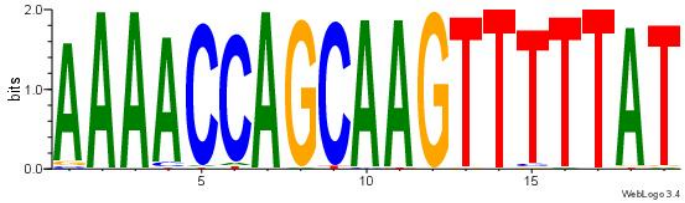

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

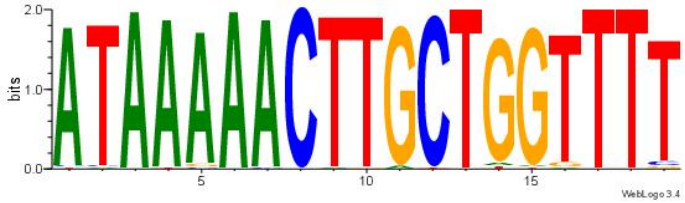

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.12124

Alignment:

```
GGATTTMKGACTTGCATGGG
AGGGATCTAGGTTGCR----
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

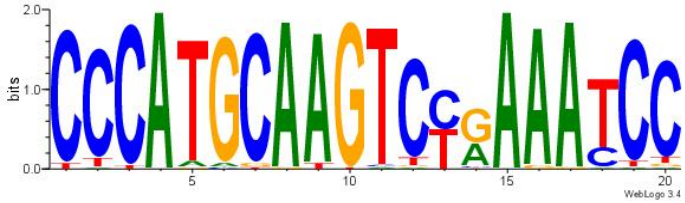

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

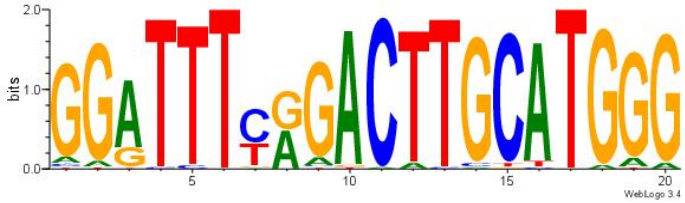

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.121535

Alignment:
AGCAGYTTGGAAACACT
KGCAACCTAGATCCCT-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

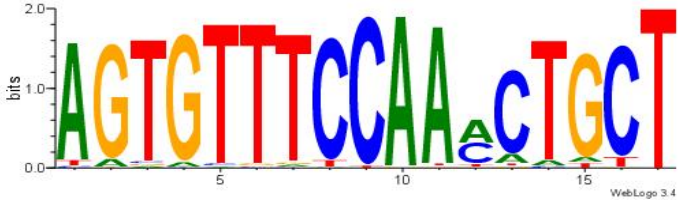

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

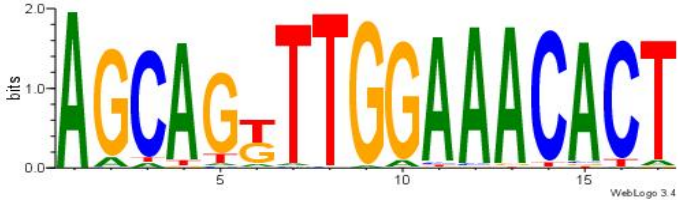

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.122279

Alignment:
AAGTCTCCCAATTACAACT
---AGGGATCTAGGTTGCR

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

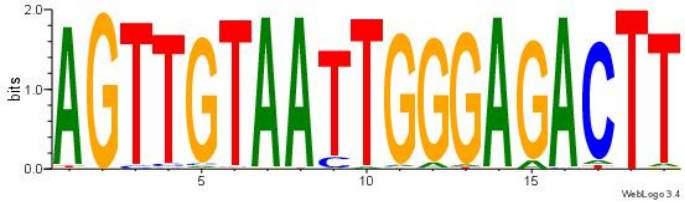

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

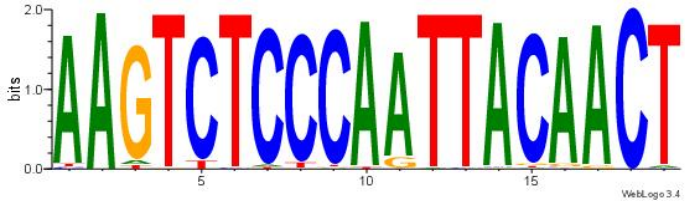

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.122416

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
----KGCAACCTAGATCCCT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

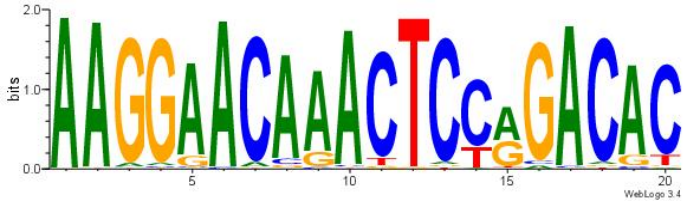

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

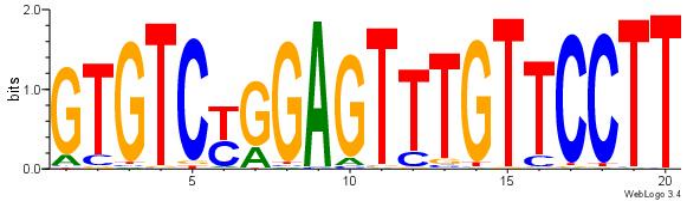

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.122448

Alignment:

```
GTCCCATCGACCACCCAAG
--KGCAACCTAGATCCCT-
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

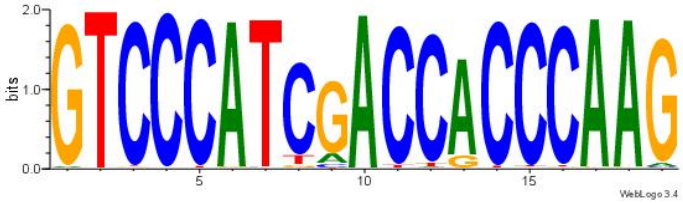

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

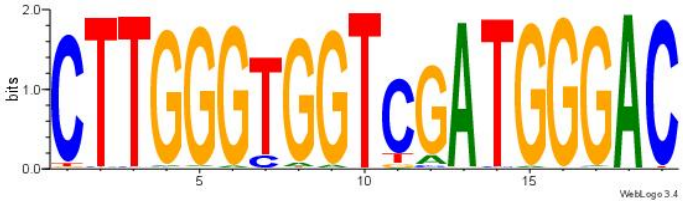

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.122719

Alignment:
GCTGGAGTGCAGTGGCRYGA
-AGGGATCTAGGTTGCR---

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

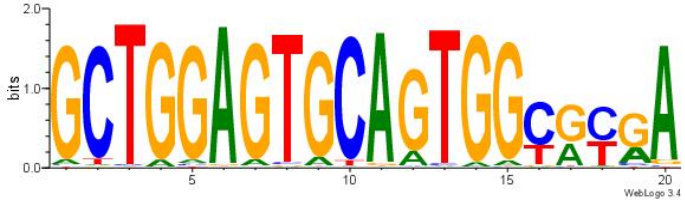

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

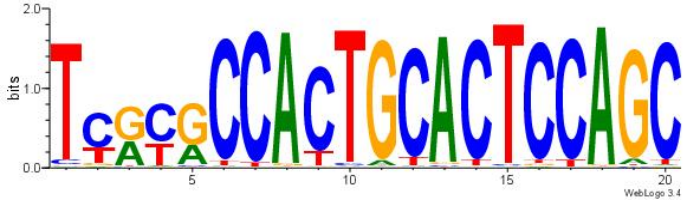

Dataset #: 1
Motif ID: 168
Motif name: Motif 168
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.122725

Alignment:
GGTGGGAGAAATACCT
KGCAACCTAGATCCCT

Original motif Consensus sequence: AGGTATTTCTCCCACC

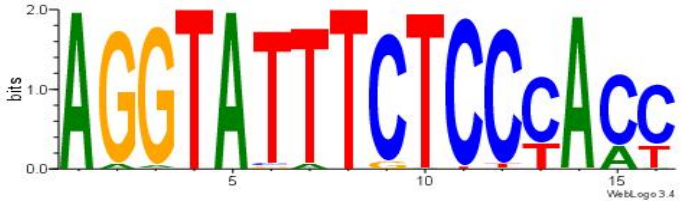

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

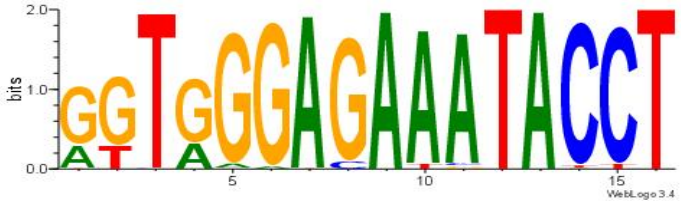

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.122949

Alignment:

```
ACAAGGCAAGTCCCTTCY
--KGCAACCTAGATCCCT
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

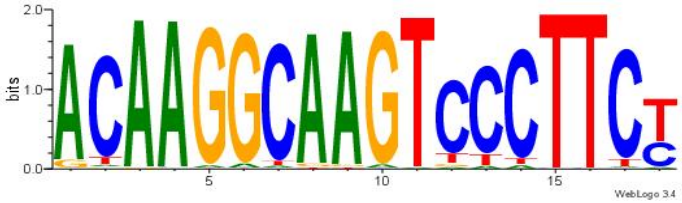

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

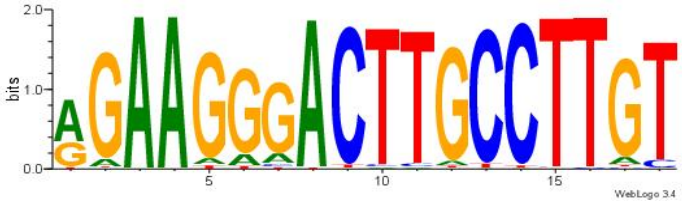

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.123121

Alignment:

```
ACTCAGCCCRCCTGCACCC
AGGGATCTAGGTTGCR---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

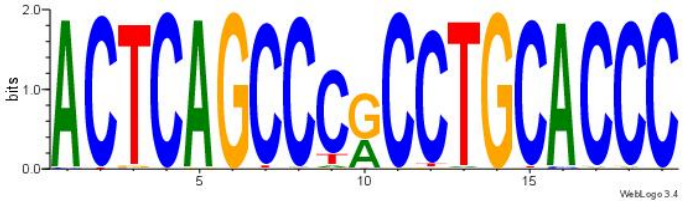

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

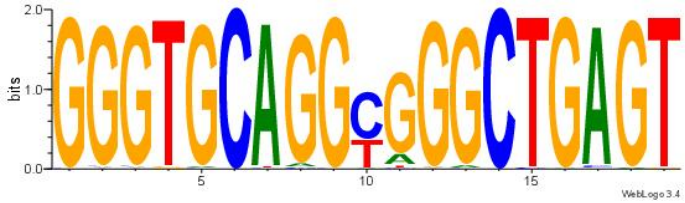

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.123722

Alignment:
GCCAGGCAGAGRGKCTCCT
---AGGGATCTAGGTTGCR

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

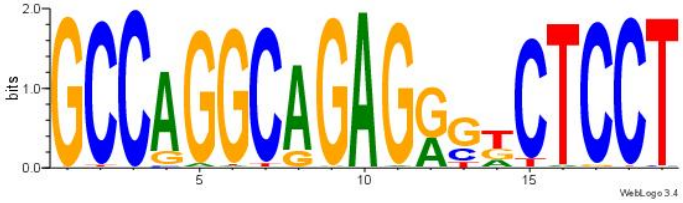

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

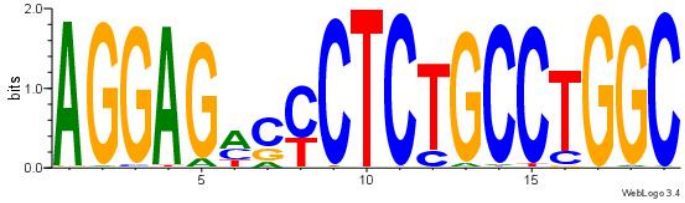

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.124163

Alignment:
AATCAACCCTGGYRATCAAT
--KGCAACCTAGATCCCT--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

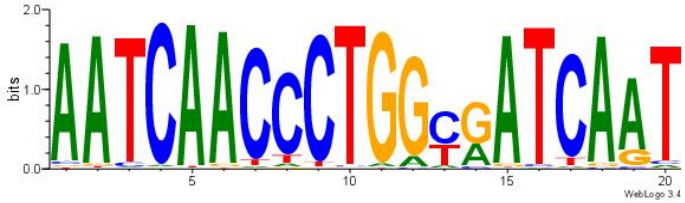

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

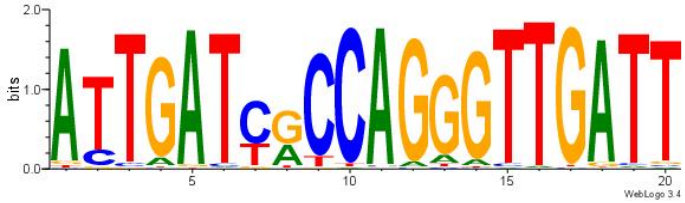

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.124266

Alignment:

```
HAGTGGKATTGCTGGATCAT
-AGGGATCTAGGTTGCR---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

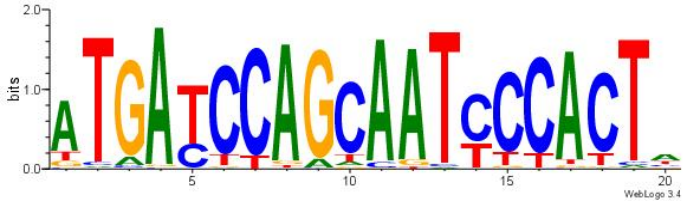

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

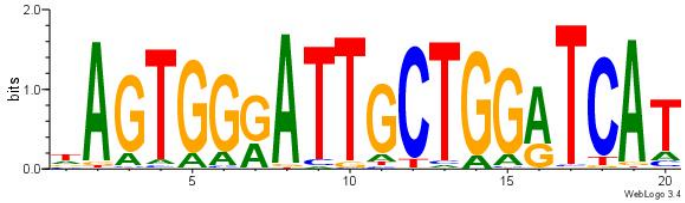

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.124279

Alignment:

```
ATCATTCTTATGCCTTTG
KGCAACCTAGATCCCT--
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

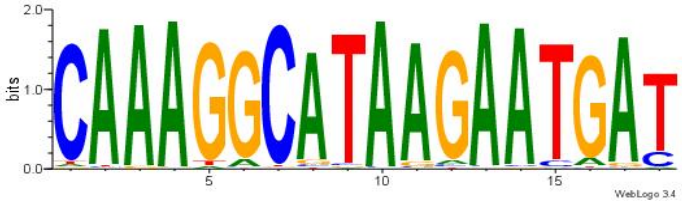

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

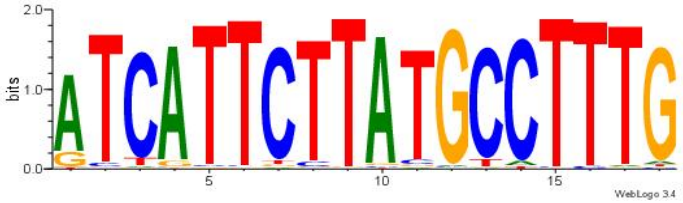

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.124442

Alignment:
AAATTACCCAGTCTCAGGTA
-AGGGATCTAGGTTGCR---

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

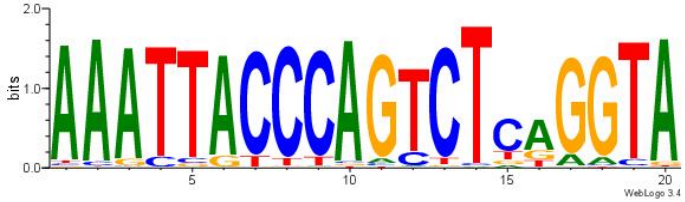

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

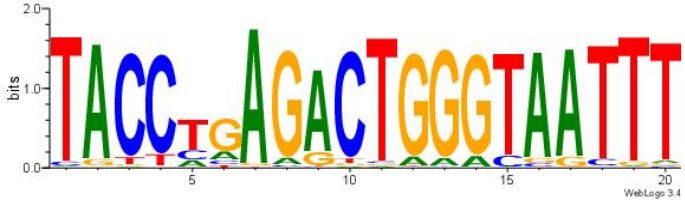

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.124972

Alignment:
GGCTGCGGAGGGTGTA
AGGGATCTAGGTTGCR

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

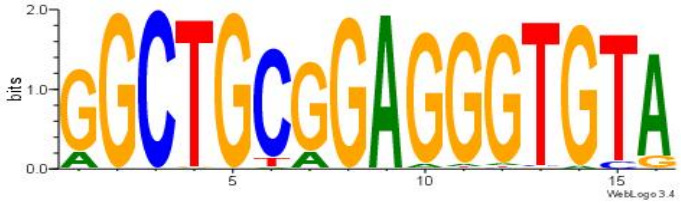

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

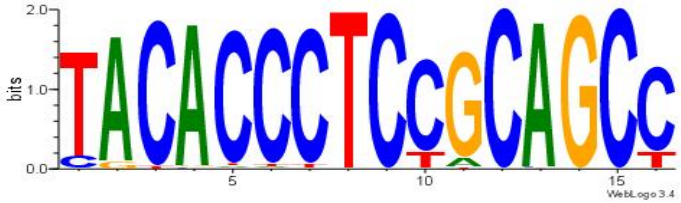

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.125687

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
--KGCAACCTAGATCCCT--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

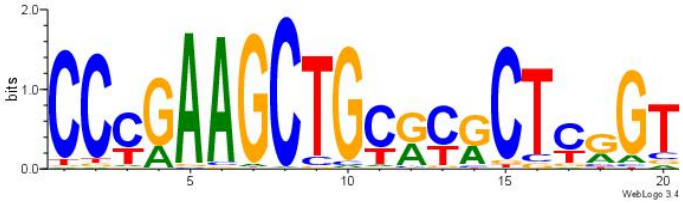

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

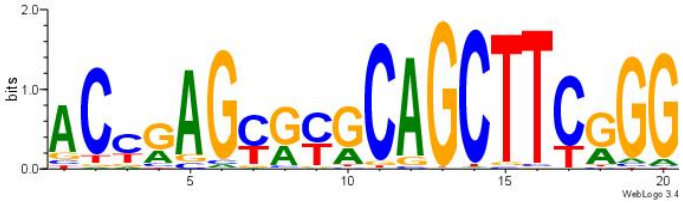

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.125754

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
----KGCAACCTAGATCCCT
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

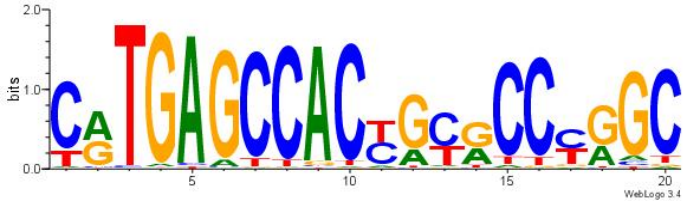

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

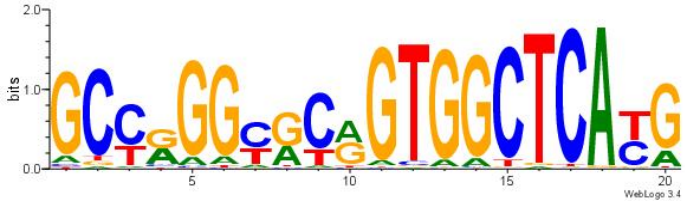

Dataset #: 1 Motif ID: 272 Motif name: Motif 272

Original motif Consensus sequence: CAGCTGTCAC

Reverse complement motif Consensus sequence: GTGACAGCTG

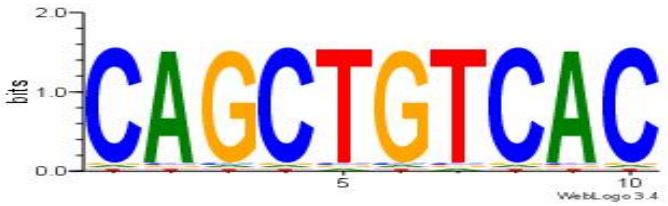

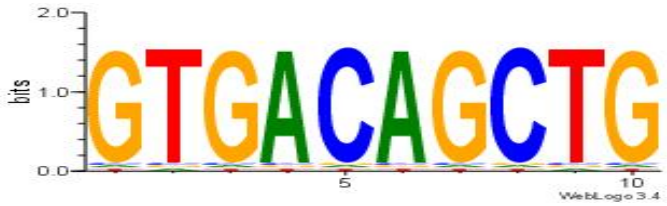

Best Matches for Motif ID 272 (Highest to Lowest)

Dataset #:	1
Motif ID:	334
Motif name:	Motif 334
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0227273

Alignment:

```
CATCTGTCAC
CAGCTGTCAC
```

Original motif Consensus sequence: CATCTGTCAC

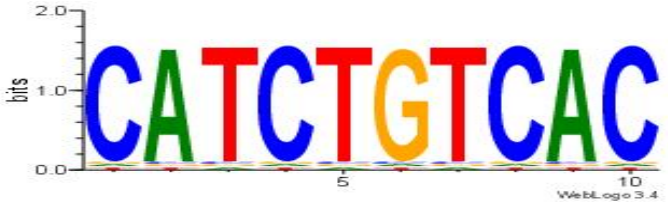

Reverse complement motif Consensus sequence: GTGACAGATG

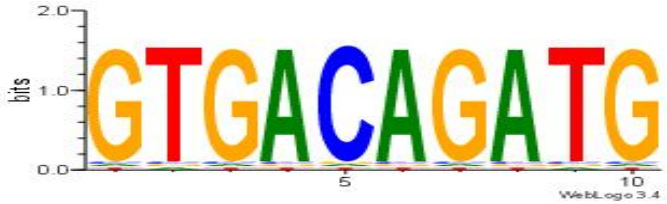

Dataset #: 1

Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.037149

Alignment:

```
GGTGCCAGCTGT
-GTGACAGCTG-
```

Original motif Consensus sequence: ACAGCTGGCACC

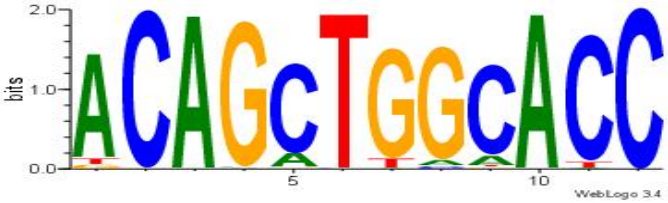

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

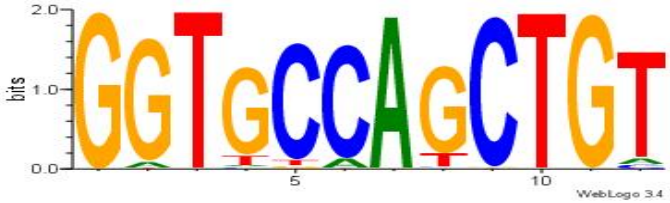

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0483787

Alignment:
BCVTCTGTCACCCC
---CAGCTGTCAC-

Original motif Consensus sequence: GGGGTGACAGABGB

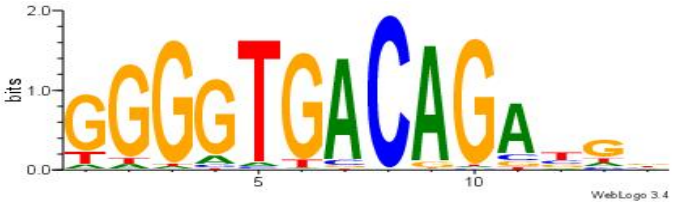

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

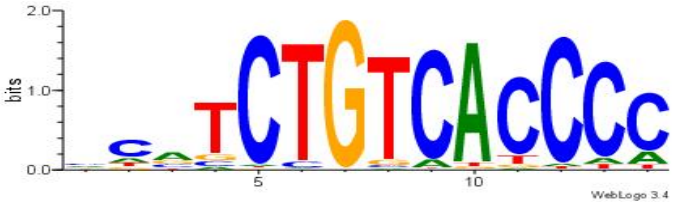

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0565248

Alignment:
TATTTACAGCTGCT
--GTGACAGCTG--

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGC

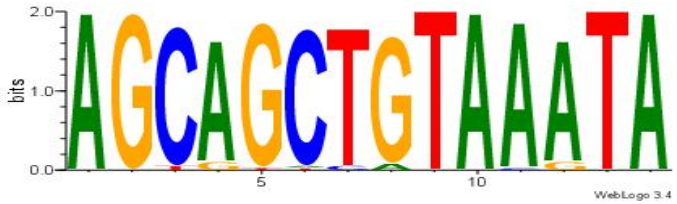

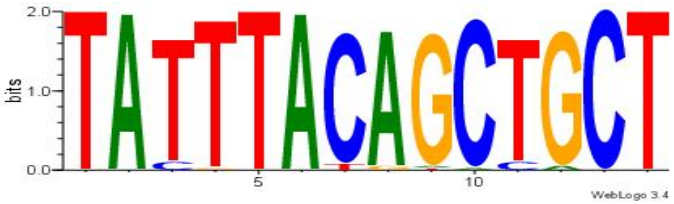

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0671188

Alignment:

```
ACATCTGYMMCC
-CAGCTGTCAC-
```

Original motif Consensus sequence: ACATCTGYMMCC

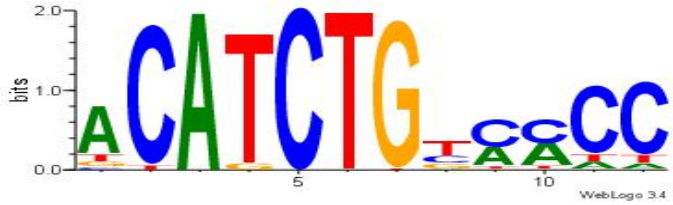

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	216

Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0681818

Alignment:

```
CAGAAATCACC
CAGCTGTCAC-
```

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

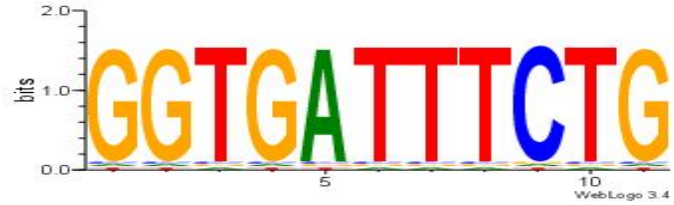

Dataset #:	1
Motif ID:	335
Motif name:	Motif 335
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0681818

Alignment:
GTTAATGCTGA
GTGACAGCTG-

Original motif Consensus sequence: GTTAATGCTGA

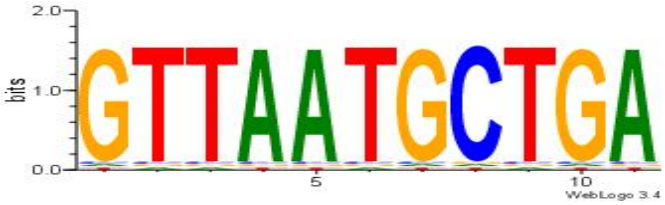

Reverse complement motif Consensus sequence: TCAGCATTAAC

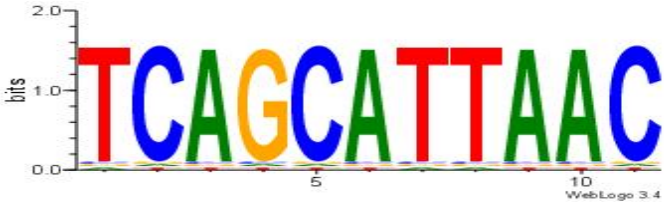

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0740916

Alignment:
GACATGAGCTGGCGCTTG
-----CAGCTGTCAC---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

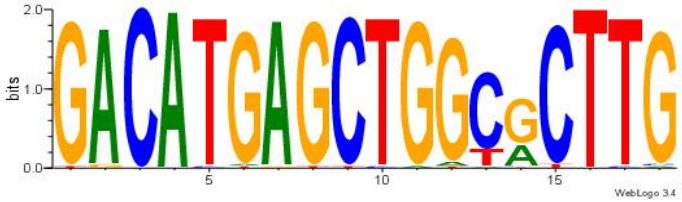

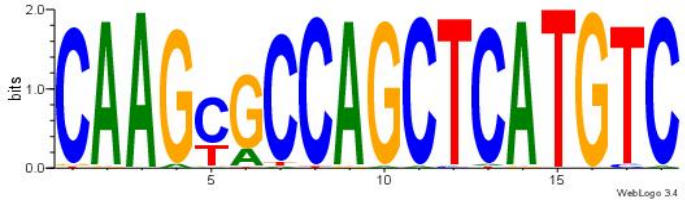

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0748014

Alignment:

```
GMTTAGCTCCCACTTA
---CAGCTGTCAC---
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

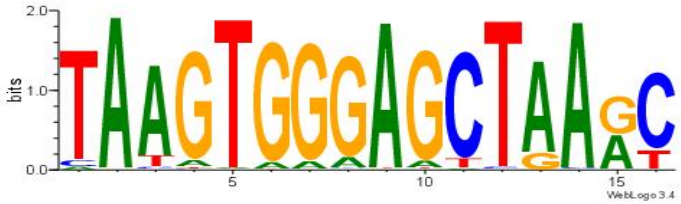

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

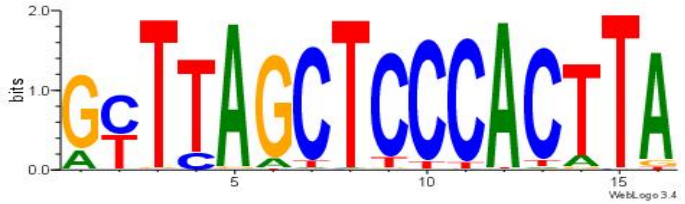

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0748819

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CAGCTGTCAC--------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

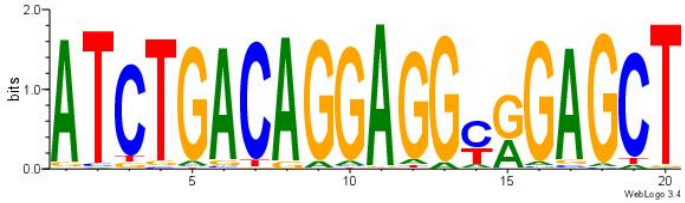

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

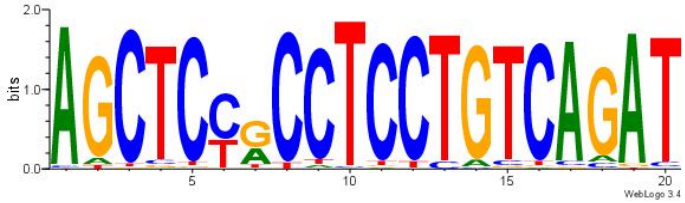

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0781852

Alignment:
TGGGCTGCCAGATG
----GTGACAGCTG

Original motif Consensus sequence: CATCTGGCAGCCCA

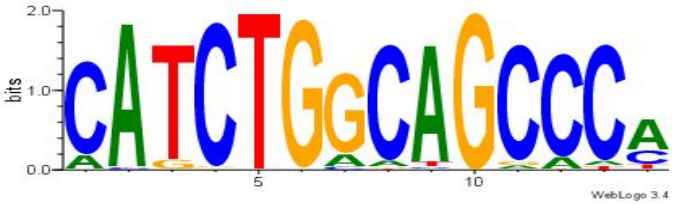

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

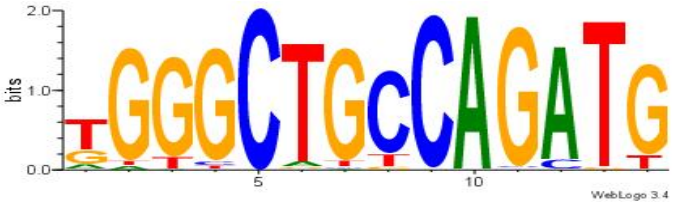

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 10
Similarity score: 0.0789406

Alignment:
GTAGACKGGAGCTGTTCCT
-CAGCTGTCAC--------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

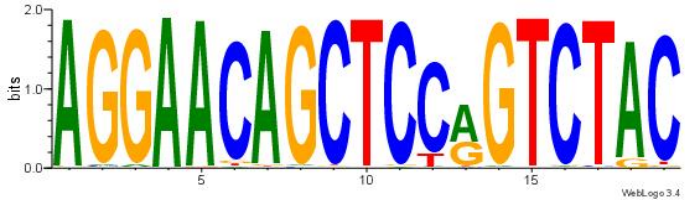

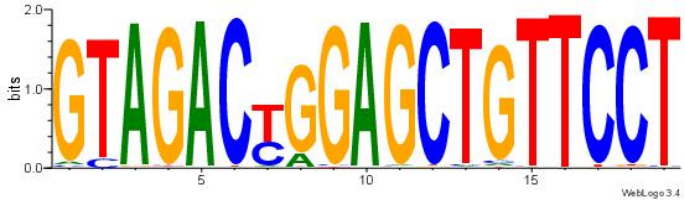

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0794991

Alignment:

```
ACAGGCTGTCCCAGGATTC
-------CAGCTGTCAC--
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

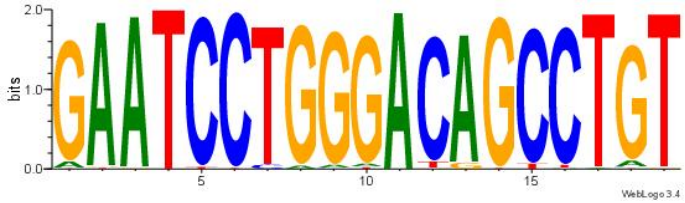

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

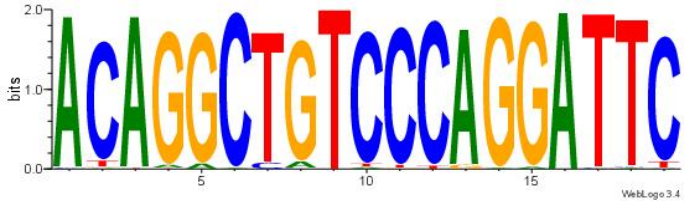

Dataset #:	1

Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.080652

Alignment:

```
CTGCTATAACAAA
CAGCTGTCAC---
```

Original motif Consensus sequence: CTGCTATAACAAA

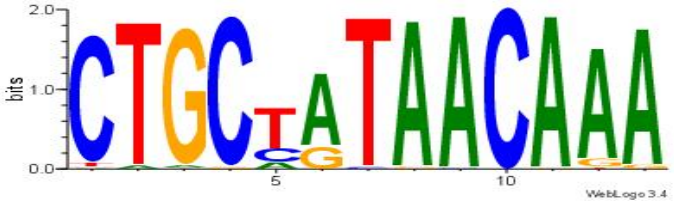

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0808367

Alignment:
AGCGACATGTGC
-GTGACAGCTG-

Original motif Consensus sequence: AGCGACATGTGC

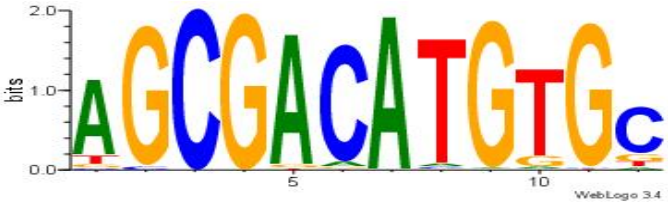

Reverse complement motif Consensus sequence: GCACATGTCGCT

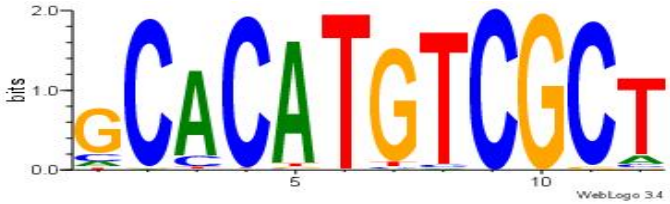

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0811695

Alignment:
CAAGTTGACACATAAAATTA
-CAGCTGTCAC---------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

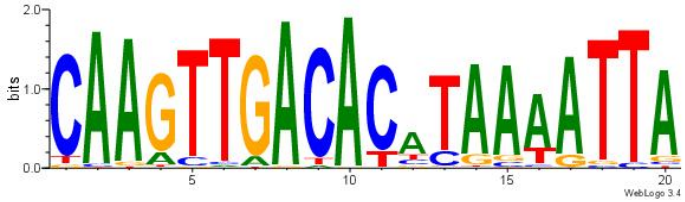

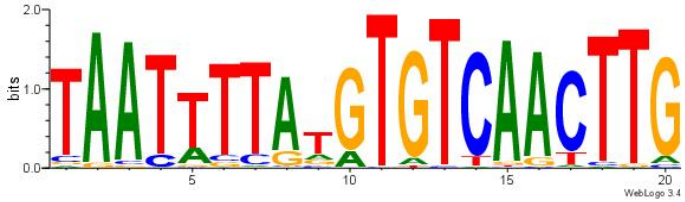

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0824285

Alignment:

```
CAGAAATCACCCGTCTT
CAGCTGTCAC-------
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

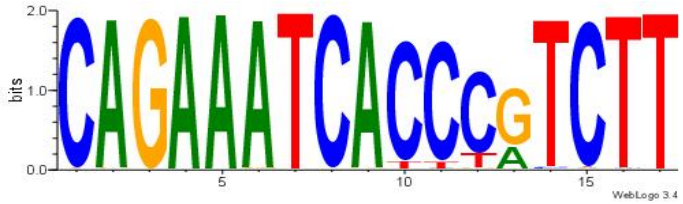

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

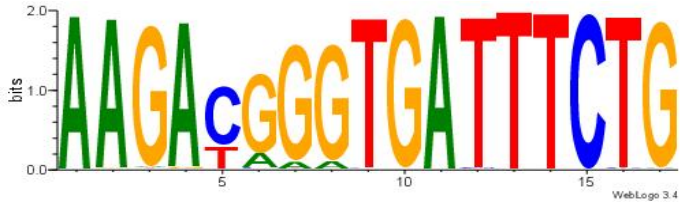

Dataset #:	1

Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0825667

Alignment:

```
ATTTTACAGATG
--GTGACAGCTG
```

Original motif Consensus sequence: CATCTGTAAAAT

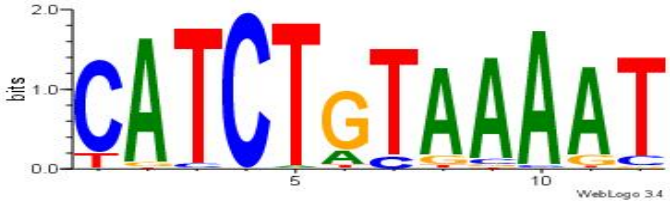

Reverse complement motif Consensus sequence: ATTTTACAGATG

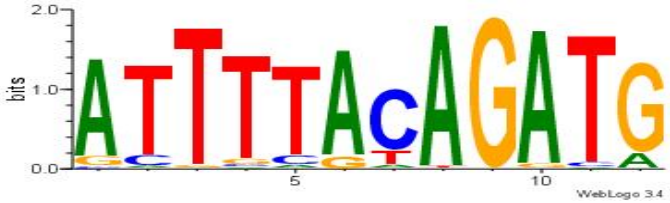

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0827269

Alignment:
GGCACTGCTGGGGGACCCAG
GTGACAGCTG----------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

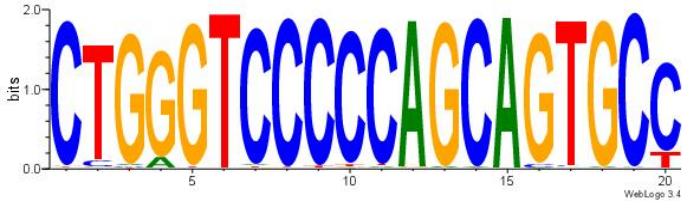

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

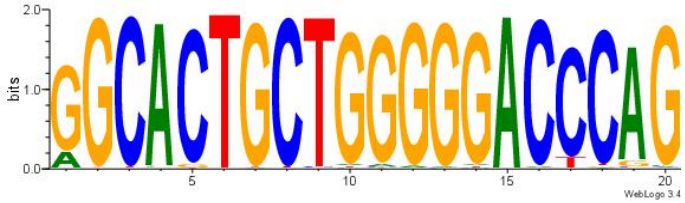

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0835122

Alignment:
CAAASCKGTCATAGGCCAT
--CAGCTGTCAC-------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

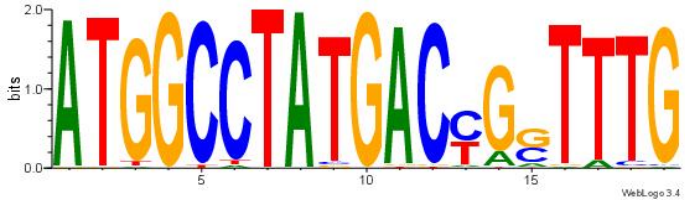

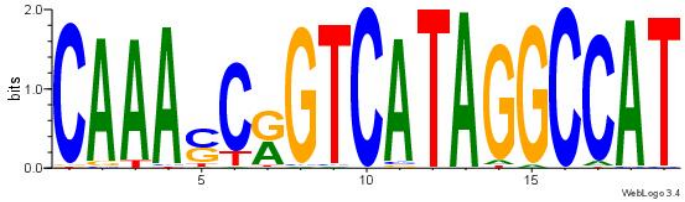

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.085381

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GTGACAGCTG------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

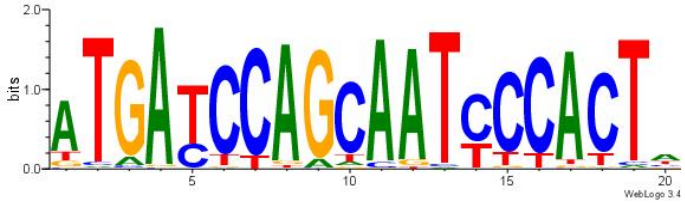

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

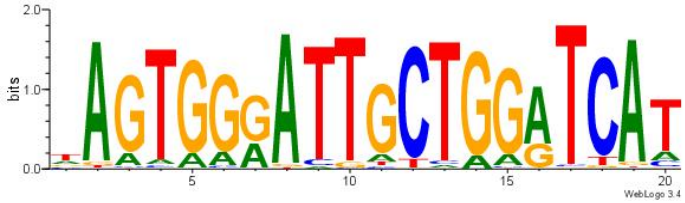

Dataset #:	1

Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0870602

Alignment:

```
AAGGGACATTKGAG
--GTGACAGCTG--
```

Original motif Consensus sequence: AAGGGACATTKGAG

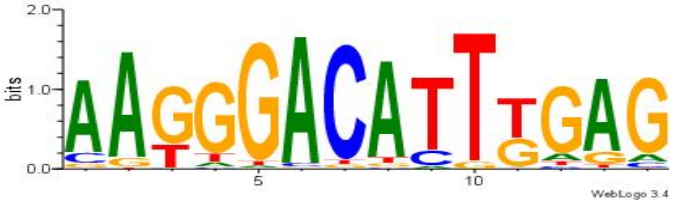

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

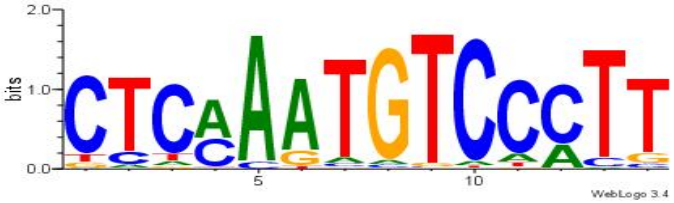

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0873782

Alignment:
TGTAKTCCCAGCTAC
----GTGACAGCTG-

Original motif Consensus sequence: GTAGCTGGGAYTACA

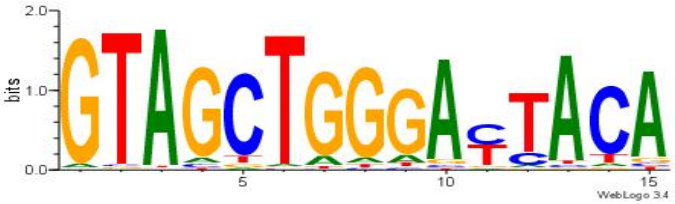

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

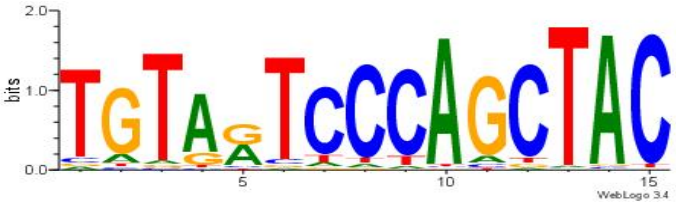

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0873784

Alignment:
GGGAGGTGTCTCCCAGTCAG
--CAGCTGTCAC--------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

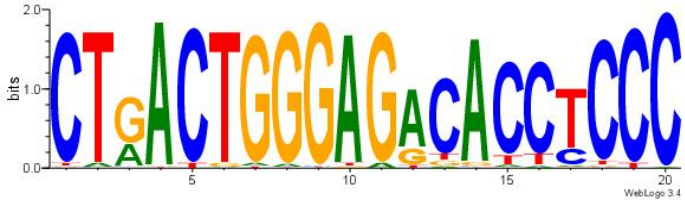

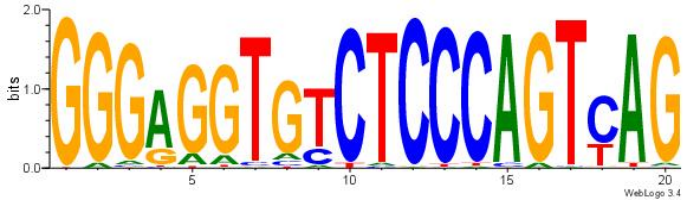

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0876823

Alignment:

```
AAGTTCTKGGKTACATGTGC
---------GTGACAGCTG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

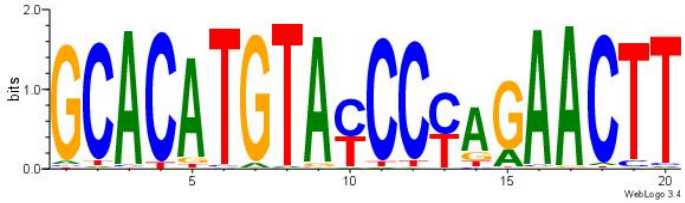

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

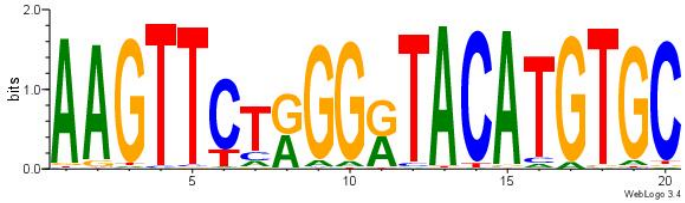

Dataset #: 1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0902649

Alignment:

```
TAGTGGTGATTTSTGAGAT
-----GTGACAGCTG----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

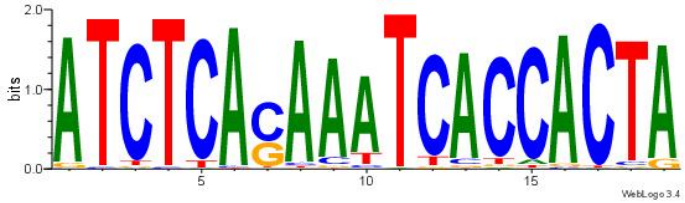

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

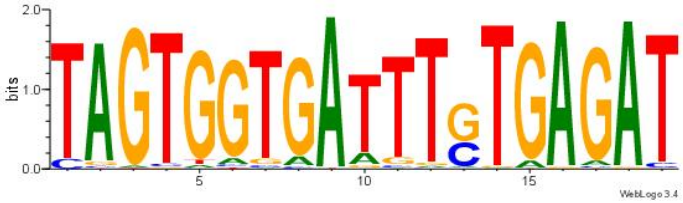

Dataset #:	1
Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0916888

Alignment:
GGCAGAGCTGGG
GTGACAGCTG--

Original motif Consensus sequence: CCCAGCTCTGCC

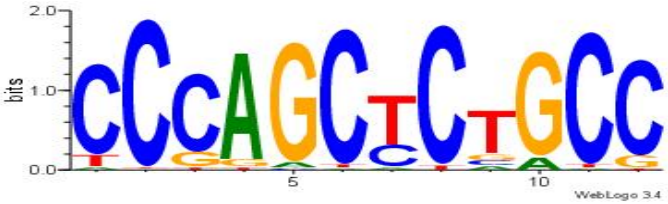

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Dataset #: 1
Motif ID: 240
Motif name: Motif 240
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0921989

Alignment:
GGGACWGCACAT
GTGACAGCTG--

Original motif Consensus sequence: ATGTGCWGTCCC

Reverse complement motif Consensus sequence: GGGACWGCACAT

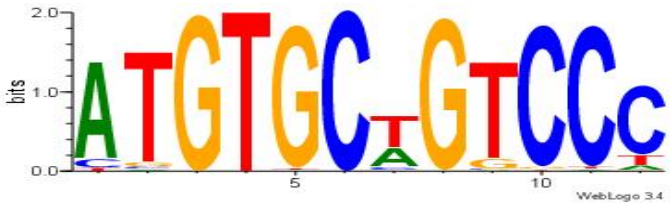

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0930684

Alignment:

```
GCTCCACCCAGTTCGAGCTT
----------GTGACAGCTG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

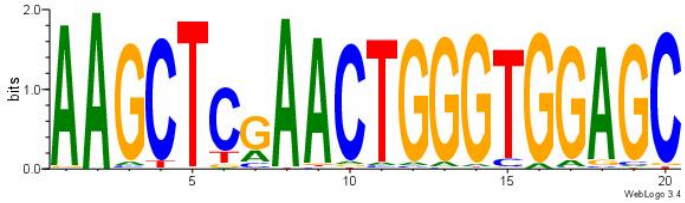

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

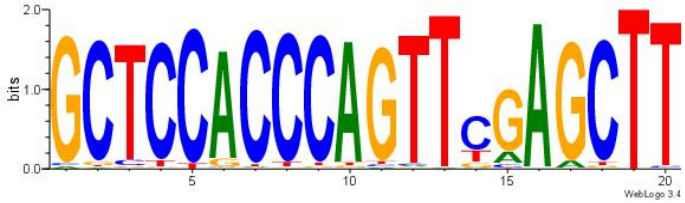

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0935542

Alignment:

```
AGACAGTGGGYGCAGGHCA
----GTGACAGCTG-----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

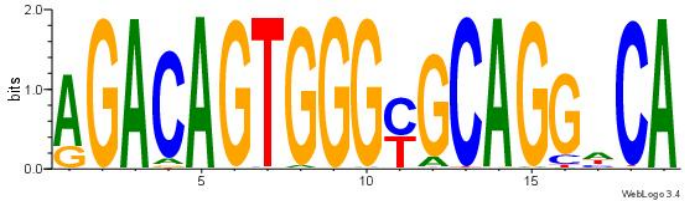

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

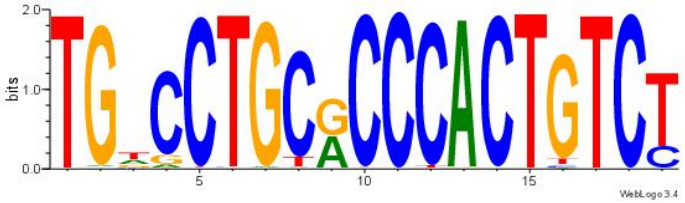

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0954747

Alignment:
GCAGCAGCAGCA
-CAGCTGTCAC-

Original motif Consensus sequence: GCAGCAGCAGCA

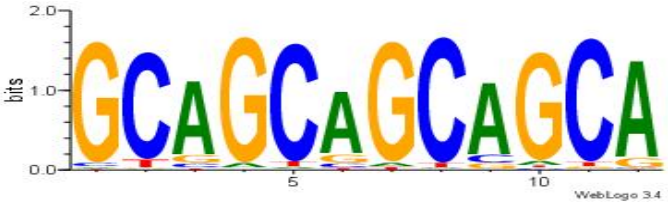

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

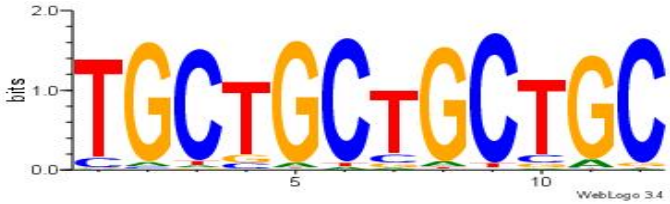

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0957371

Alignment:
AACAACASACACTGGGGCCT
--------CAGCTGTCAC--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

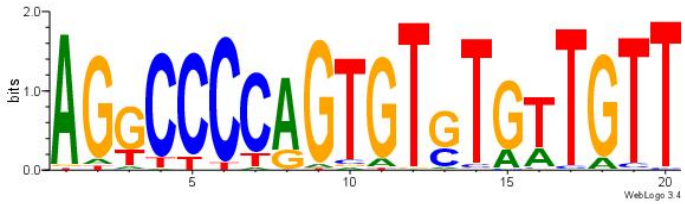

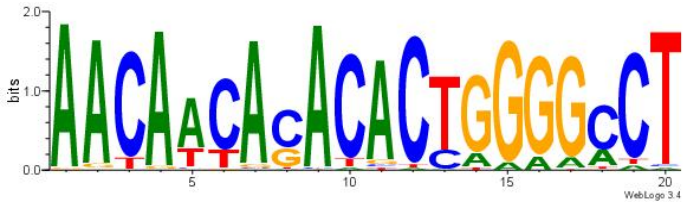

Dataset #:	1
Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0959691

Alignment:

```
CTGTCAGCCCAT
--GTGACAGCTG
```

Original motif Consensus sequence: CTGTCAGCCCAT

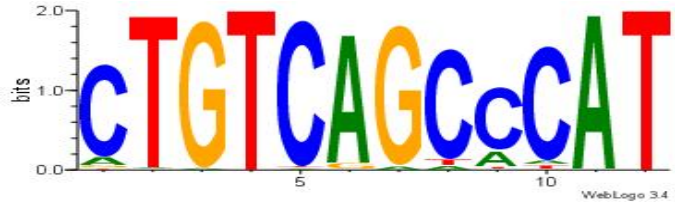

Reverse complement motif Consensus sequence: ATGGGCTGACAG

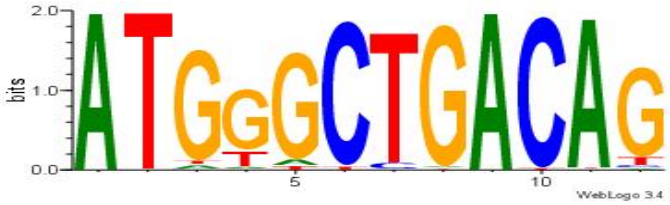

Dataset #:	1
Motif ID:	191

Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0961504

Alignment:

```
AAAGTGCCGAGAKTGCAGC
-GTGACAGCTG--------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

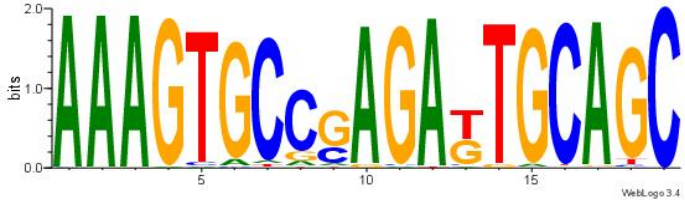

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

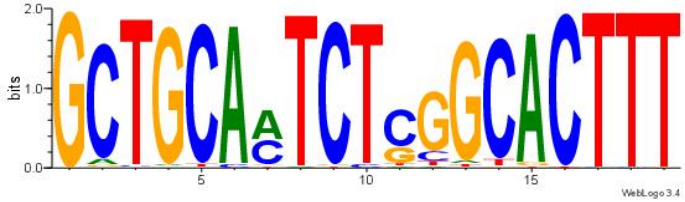

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0963843

Alignment:
TGTGACCTTGG
-GTGACAGCTG

Original motif Consensus sequence: CCAAGGTCACA

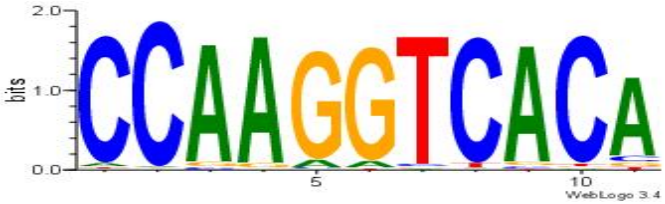

Reverse complement motif Consensus sequence: TGTGACCTTGG

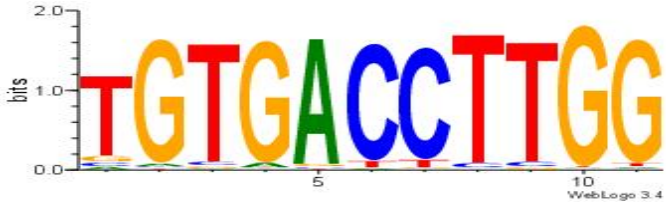

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0964609

Alignment:
GCTGTGTGACCTTGGGCAAG
-----GTGACAGCTG-----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

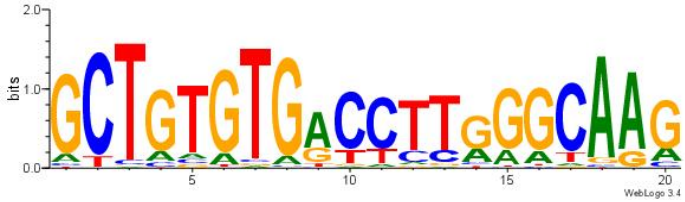

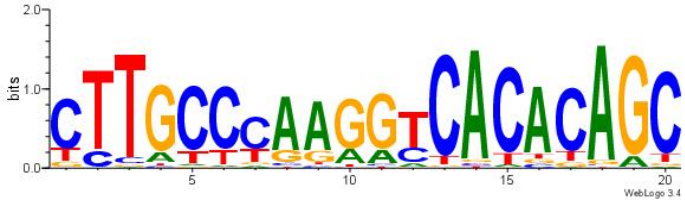

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0966829

Alignment:

```
AGGTTTGTTACATAGGTAWA
----GTGACAGCTG------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

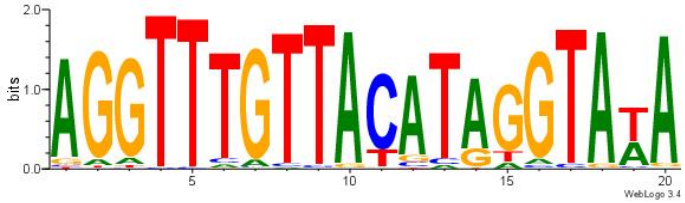

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

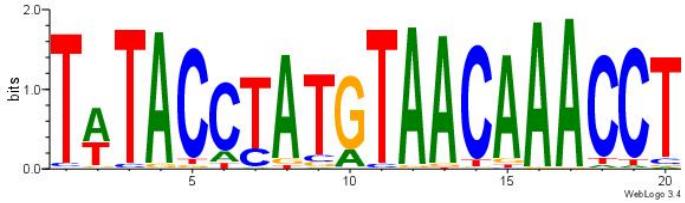

Dataset #: 1

Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0975421

Alignment:

```
ACCATCTTTAAGAACT
--CAGCTGTCAC----
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

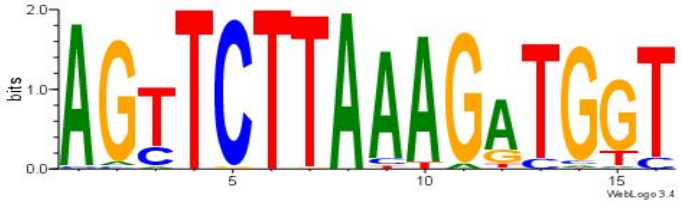

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

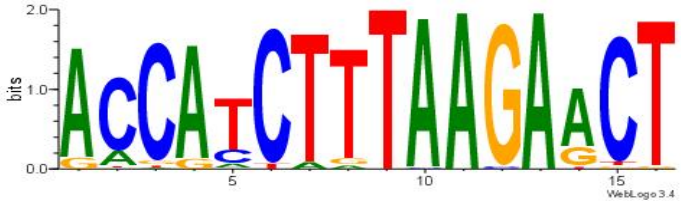

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0977085

Alignment:
AAAGAGAGTCAGCGAAG
--GTGACAGCTG-----

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

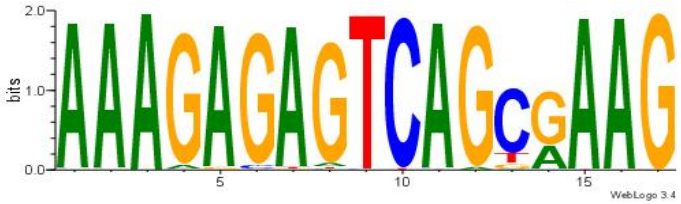

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

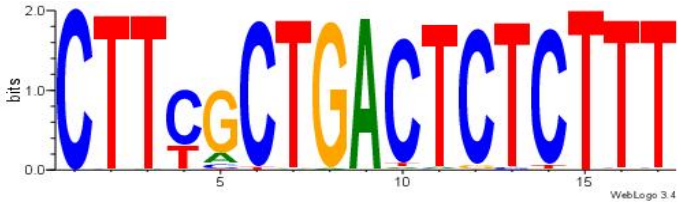

Dataset #: 1
Motif ID: 101
Motif name: Motif 101
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0979021

Alignment:
GCGGCGGCGGCG
GTGACAGCTG--

Original motif Consensus sequence: CGCCGCCGCCGC

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

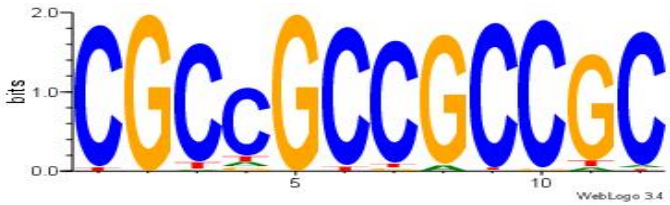

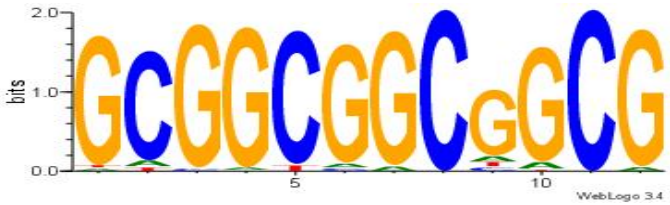

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0981665

Alignment:

```
GTGCCAGGCACTGTKCTARG
----------GTGACAGCTG
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

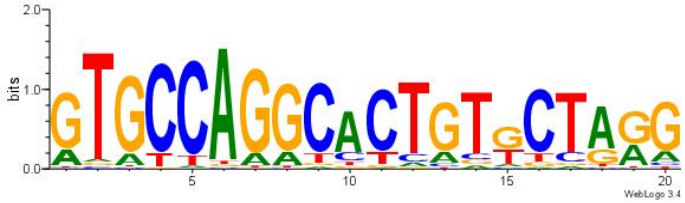

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

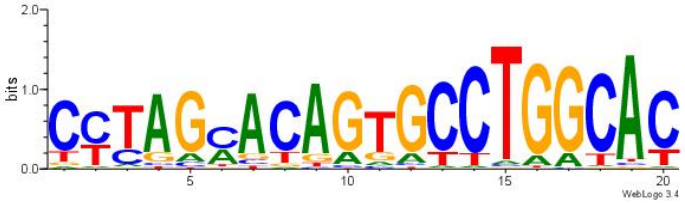

Dataset #: 1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0982406

Alignment:

```
CCCAAATCTCATSTTGAAT
--CAGCTGTCAC-------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

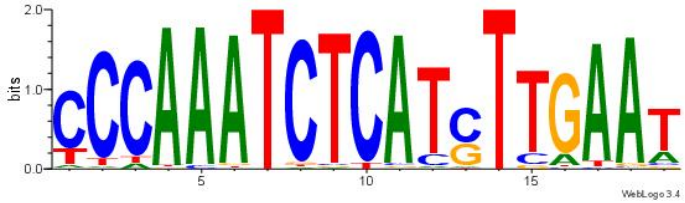

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

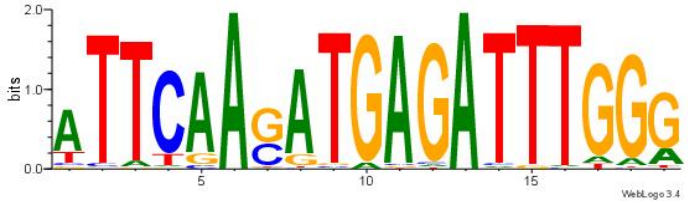

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10

Similarity score: 0.098286

Alignment:
AACCCTATTGTGAACTGYG
--GTGACAGCTG-------

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

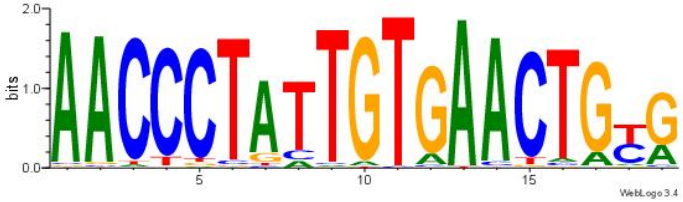

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

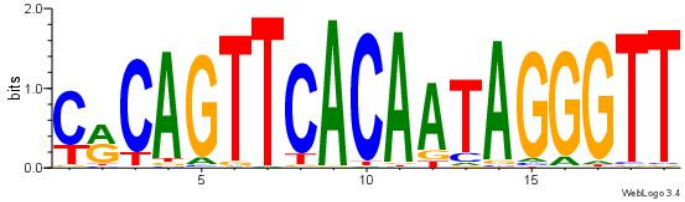

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 10
Similarity score: 0.0983772

Alignment:
AGTGAGAACATRYRRTRTTT
---------GTGACAGCTG-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

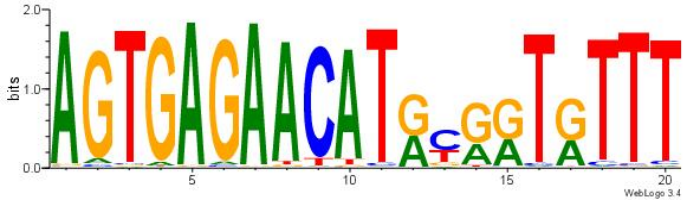

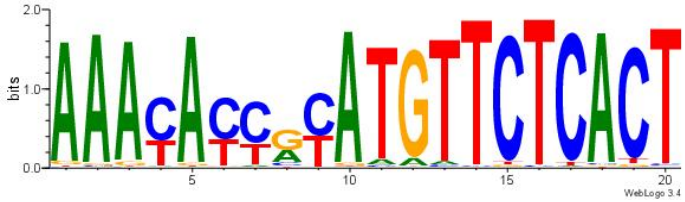

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0988736

Alignment:

```
CCCTGCTAGAACCTCCAA
--CAGCTGTCAC------
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

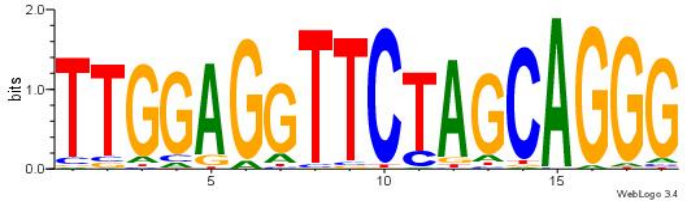

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0988758

Alignment:

```
AGATGCCAGCCAGAGCTCT
--GTGACAGCTG-------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

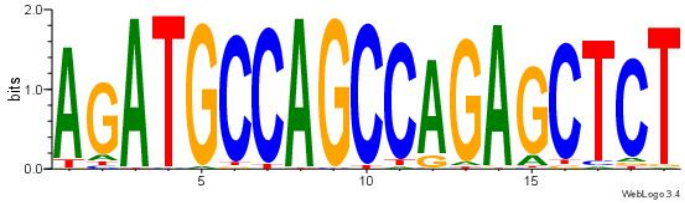

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

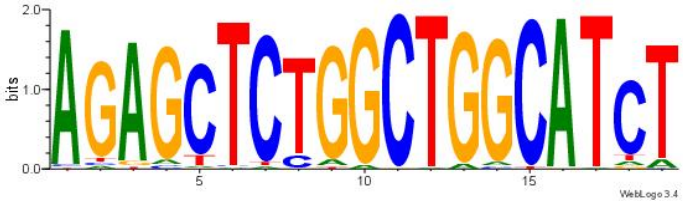

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0988985

Alignment:
CCCMKGGCACCCTCAGTCCT
CAGCTGTCAC----------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

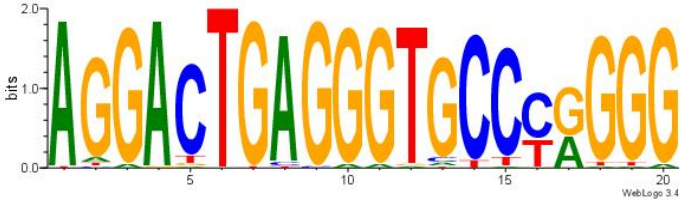

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

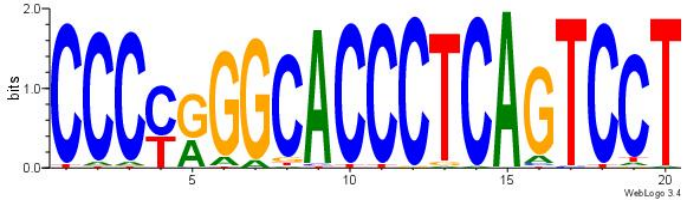

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0990193

Alignment:
KCCGGGCCTTAGCTGCCTTC
-CAGCTGTCAC---------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

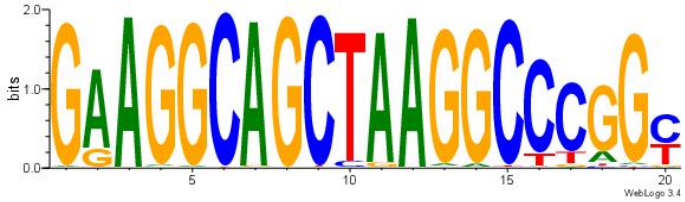

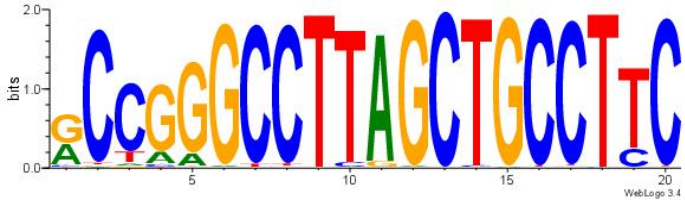

Dataset #:	1
Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0994453

Alignment:

```
ATTGCTAGCACA
-CAGCTGTCAC-
```

Original motif Consensus sequence: ATTGCTAGCACA

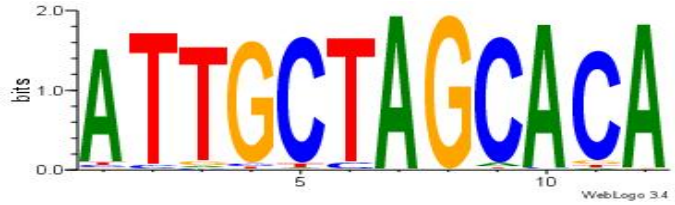

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

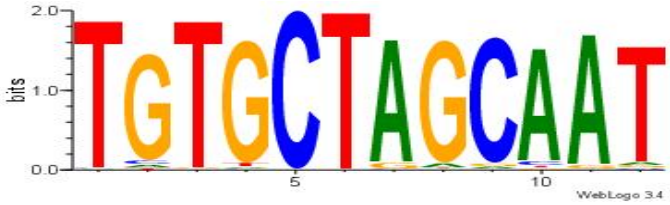

Dataset #:	1
Motif ID:	313

Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0996205

Alignment:

```
MGCTGAGGCAGGAG
----GTGACAGCTG
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

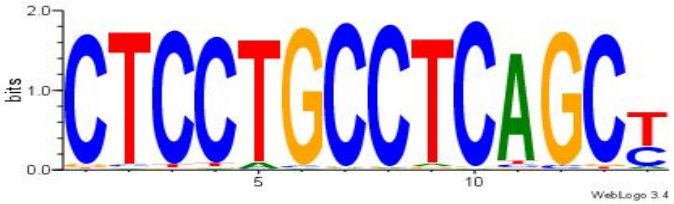

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

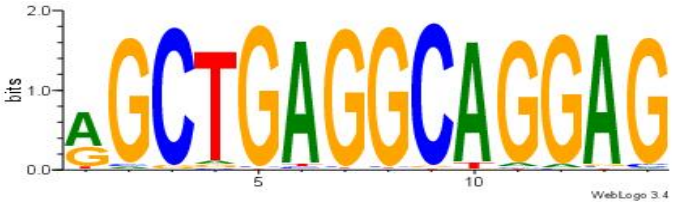

Dataset #: 1 Motif ID: 273 Motif name: Motif 273

Original motif Consensus sequence: AGCCTAGGCCTAC

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

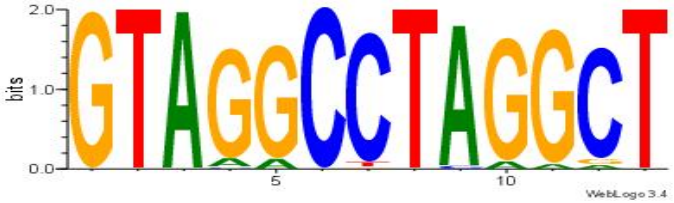

Best Matches for Motif ID 273 (Highest to Lowest)

Dataset #:	1
Motif ID:	365
Motif name:	Motif 365
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0731001

Alignment:

```
AGCTCCGGTCTAC
AGCCTAGGCCTAC
```

Original motif Consensus sequence: AGCTCCGGTCTAC

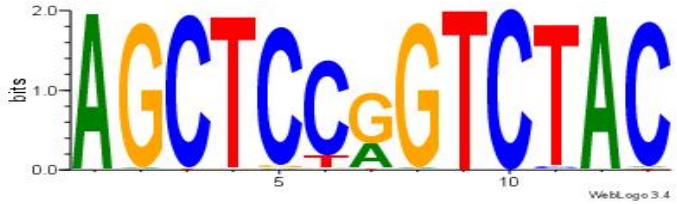

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

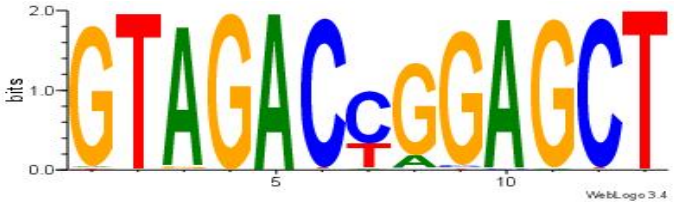

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.0735654

Alignment:
AAGCAGGGCGAGGCATTGCC
-----GTAGGCCTAGGCT--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

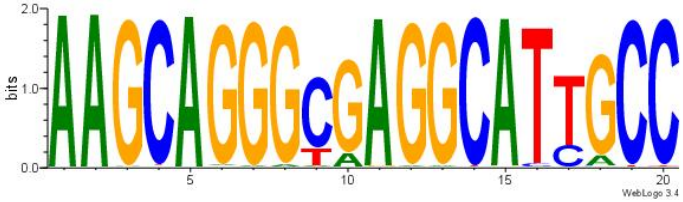

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

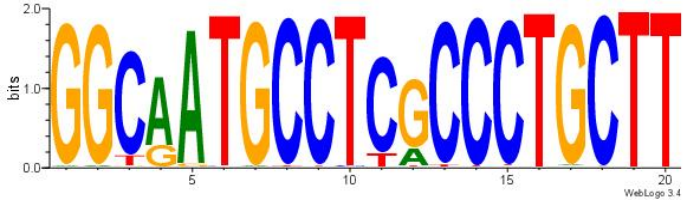

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.0803293

Alignment:
AGGAACAGCTCCRGTCTAC
------AGCCTAGGCCTAC

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

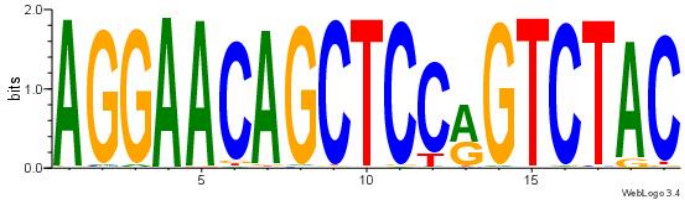

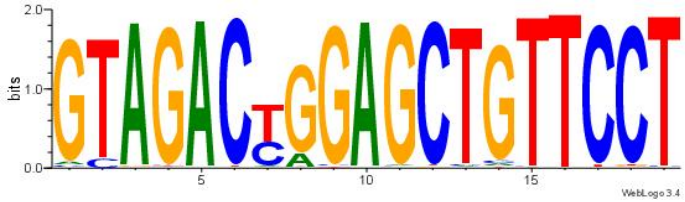

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0829415

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
------AGCCTAGGCCTAC-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

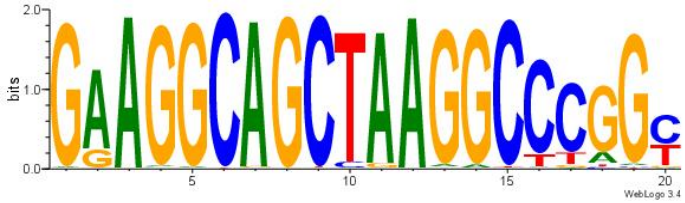

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

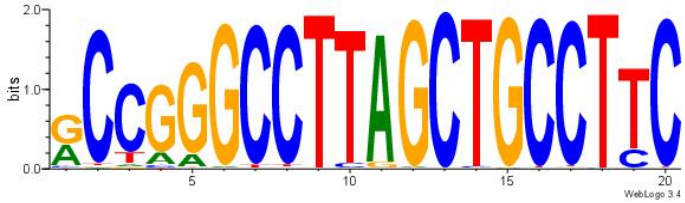

Dataset #:	1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0838018

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
---GTAGGCCTAGGCT----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

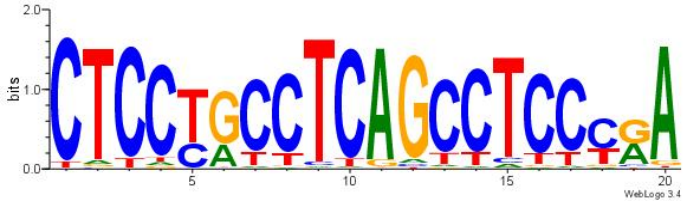

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

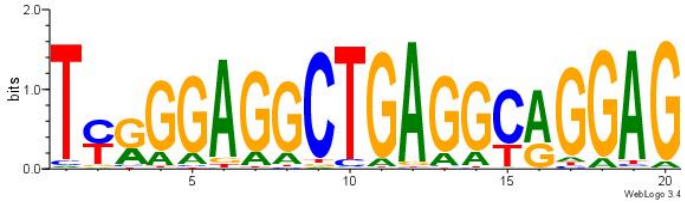

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.0877315

Alignment:
ACAGGCTGTCCCAGGATTC
----GTAGGCCTAGGCT--

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

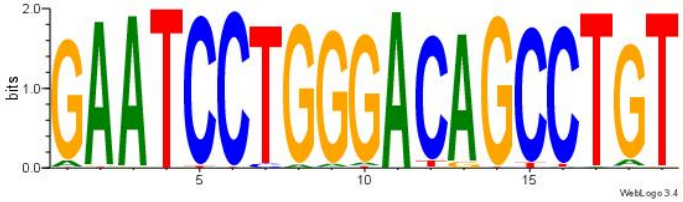

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

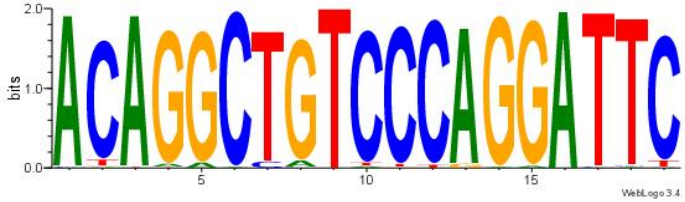

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.087861

Alignment:
GTGGCCCTCTTCTCACAGCT
GTAGGCCTAGGCT-------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

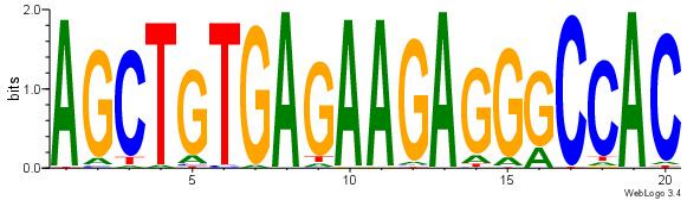

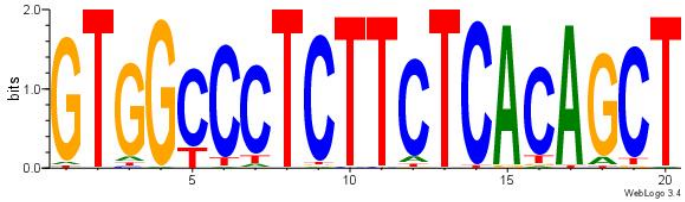

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0888393

Alignment:

```
ATGGCCTATGACYGSTTTG
--AGCCTAGGCCTAC----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

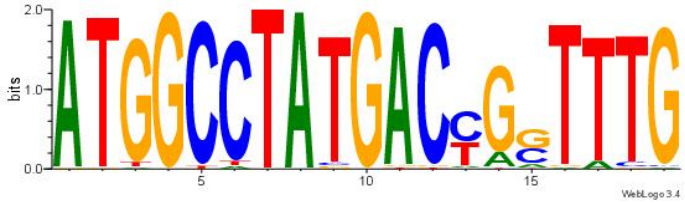

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

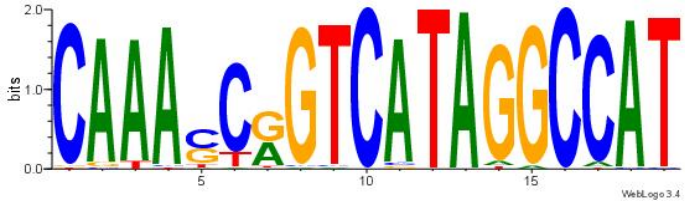

Dataset #:	1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0899084

Alignment:

```
CTGTTTGCCTGGGTATCA
--GTAGGCCTAGGCT---
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

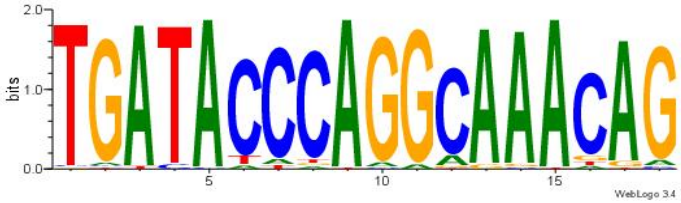

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

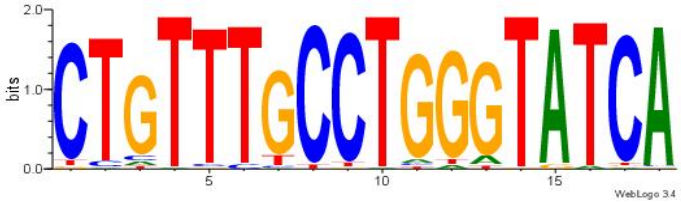

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.0917147

Alignment:
AAATTAGGCCAATTAATAAC
AGCCTAGGCCTAC-------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

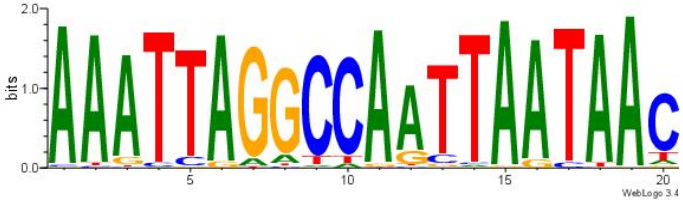

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0917921

Alignment:
CGAGCCCTGCCCCGCGG
--AGCCTAGGCCTAC--

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence:
CCGCGGGGCAGGGCTCG

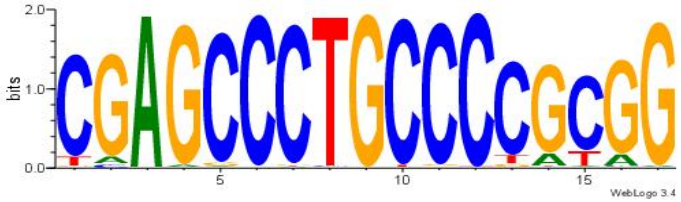

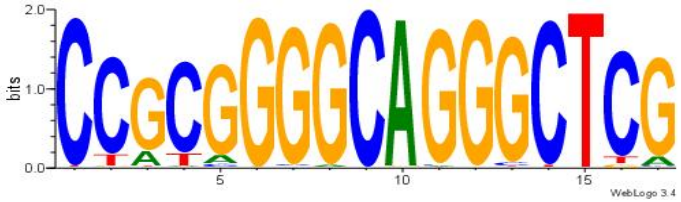

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0937382

Alignment:

```
TGHCCTGCKCCCACTGTCT
-----AGCCTAGGCCTAC-
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

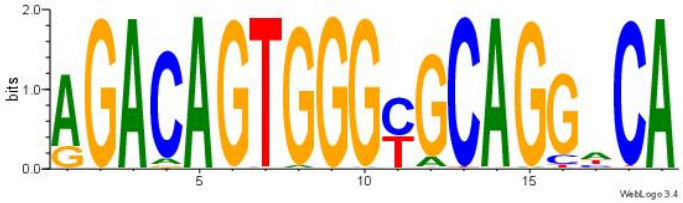

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

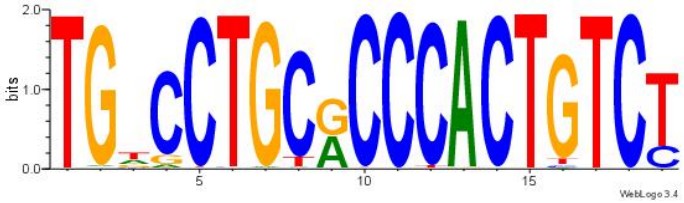

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0961243

Alignment:

```
CCTGCCATTGCYSAGGCTTG
--GTAGGCCTAGGCT-----
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

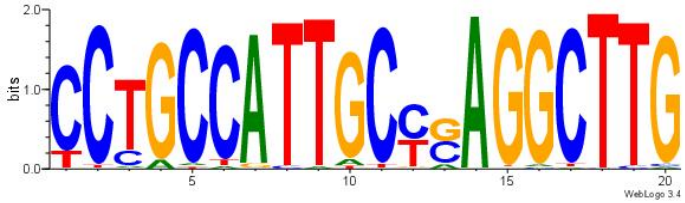

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

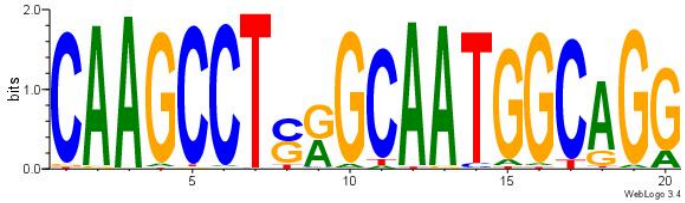

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.0963578

Alignment:
AGCCYCTGGYAACCAYYAWT
AGCCTAGGCCTAC-------

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

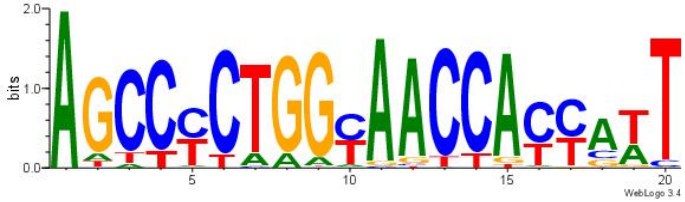

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

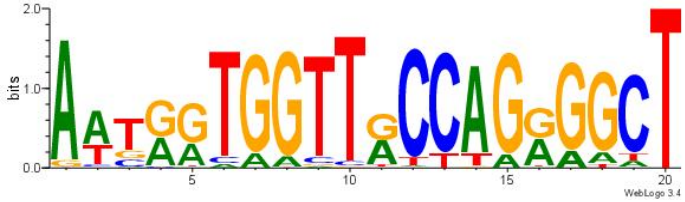

Dataset #: 1
Motif ID: 43
Motif name: Motif 43
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0992234

Alignment:
GCCAGGCAGAGRGKCTCCT
-----GTAGGCCTAGGCT-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

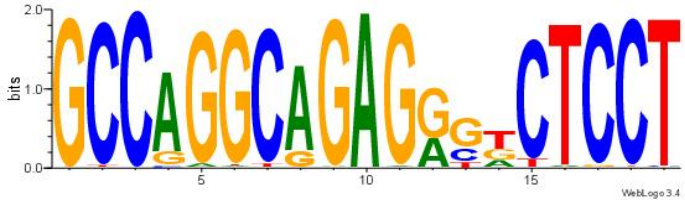

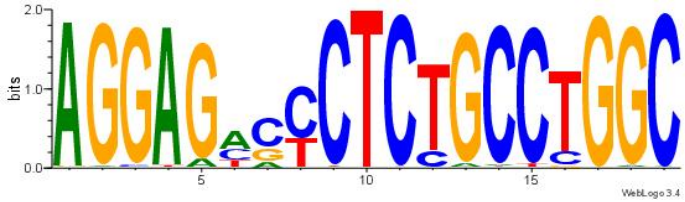

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.10226

Alignment:

```
TAGATAATAGCTCCAGCTTT
------GTAGGCCTAGGCT-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

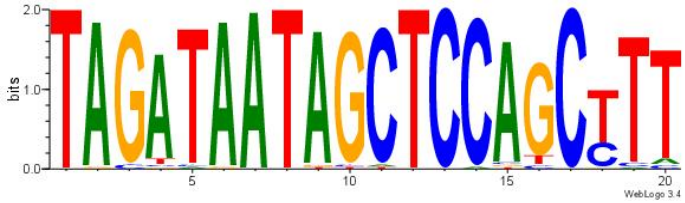

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

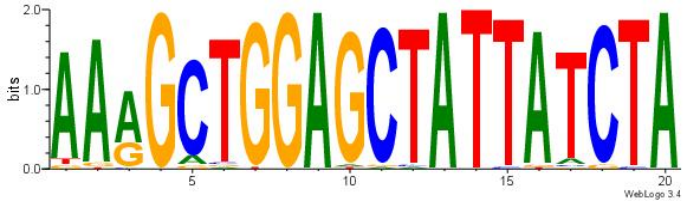

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.102999

Alignment:

```
KGCAACCTAGATCCCT
AGCCTAGGCCTAC---
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

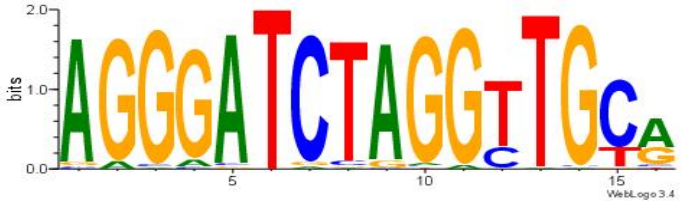

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

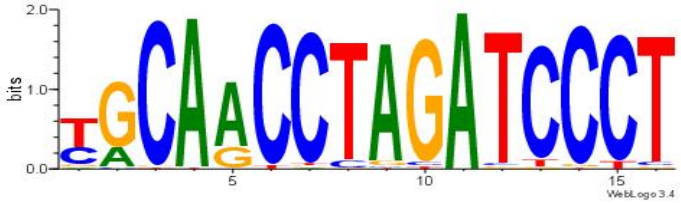

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.103912

Alignment:
GCTTAGCACCYGGGCCAGC
------AGCCTAGGCCTAC

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

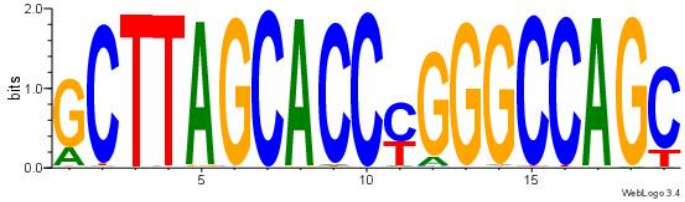

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

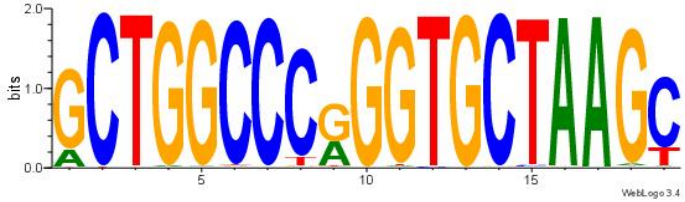

Dataset #: 1
Motif ID: 163
Motif name: Motif 163
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.10419

Alignment:
GGAGCCCACGGAGG
GTAGGCCTAGGCT-

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

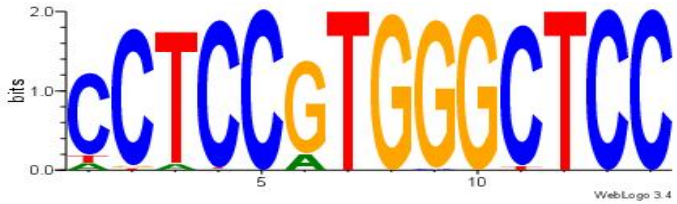

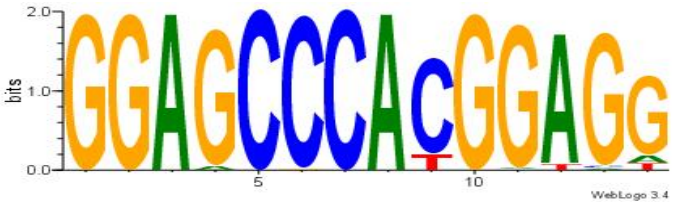

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10491

Alignment:

```
TGTAKTCCCAGCTAC
-GTAGGCCTAGGCT-
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

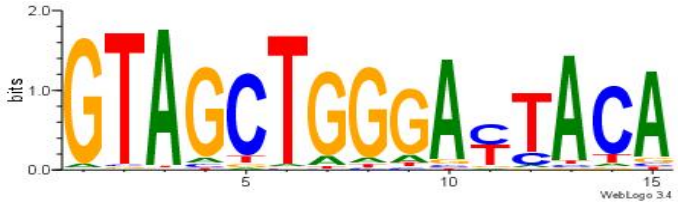

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

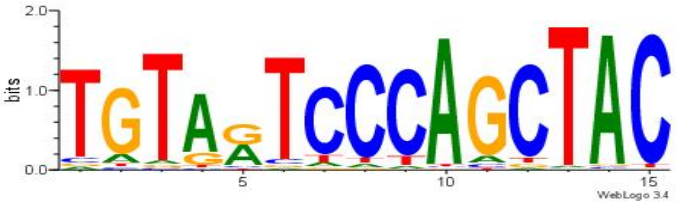

Dataset #:	1
Motif ID:	336

Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.105332

Alignment:

```
ATGTAACCAAAYACCACCTG
----AGCCTAGGCCTAC---
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

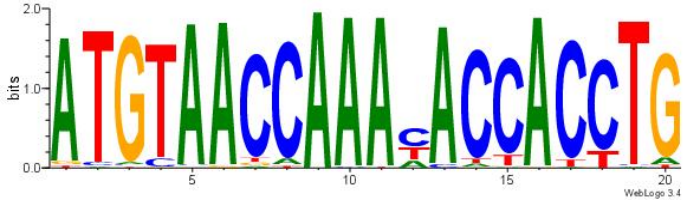

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

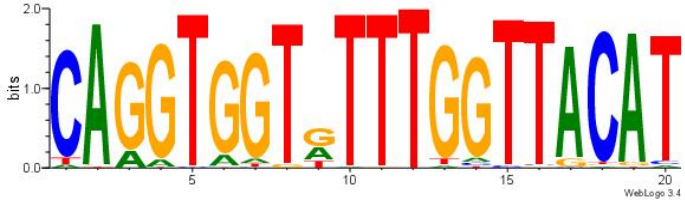

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.105745

Alignment:
CAAAGGCATAAGAATGAT
----GTAGGCCTAGGCT-

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

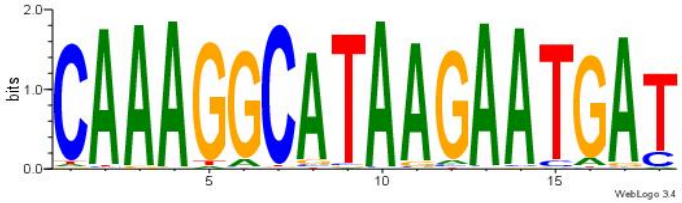

Reverse complement motif Consensus sequence:
ATCATTCTTATGCCTTTG

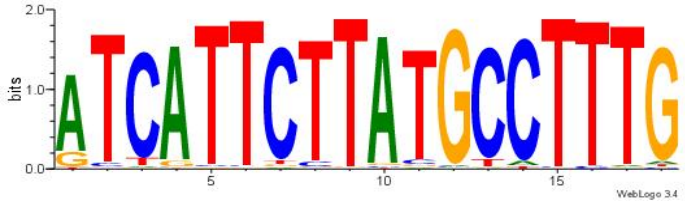

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.105906

Alignment:
GGATTTMKGACTTGCATGGG
----GTAGGCCTAGGCT---

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

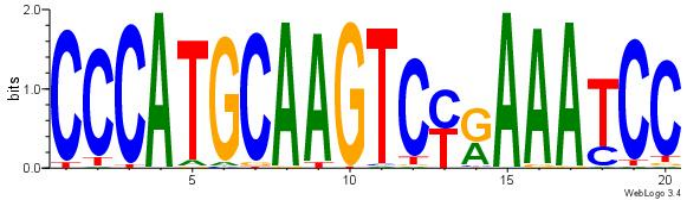

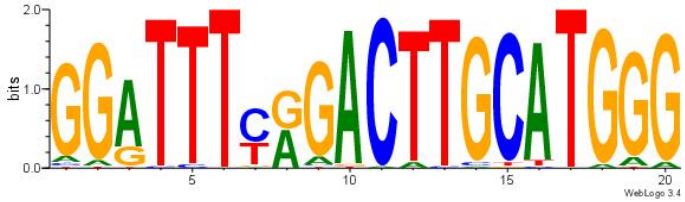

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.105926

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---AGCCTAGGCCTAC----
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

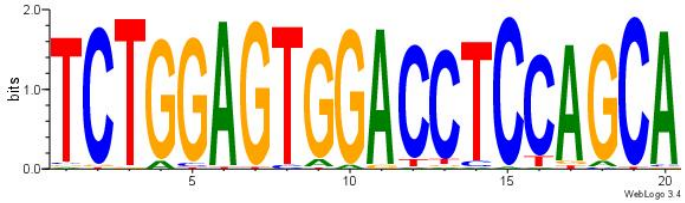

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

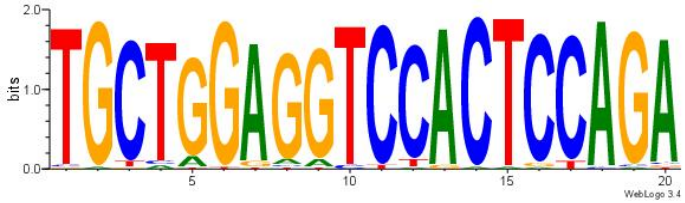

Dataset #:	1

Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.105985

Alignment:

```
TAMGACCTCAGGTCCTCAG
----AGCCTAGGCCTAC--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

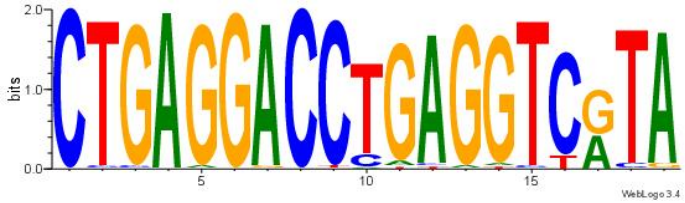

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

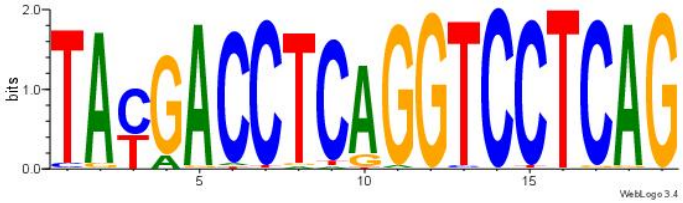

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.106196

Alignment:
AATTAAAAGACACAGACTG
-----GTAGGCCTAGGCT-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

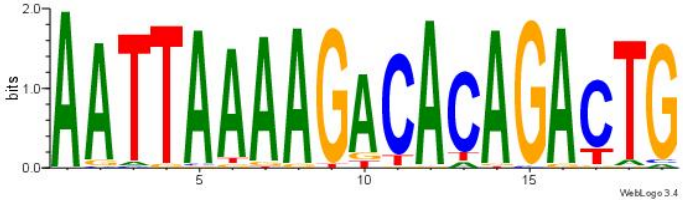

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

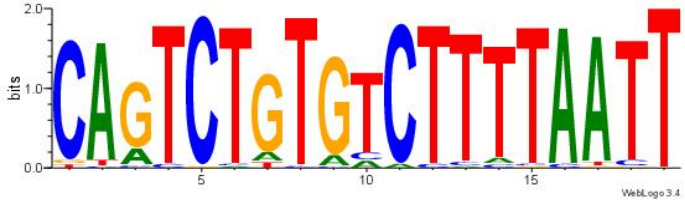

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.106702

Alignment:
GGCTGAGGAGTGCG
-AGCCTAGGCCTAC

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

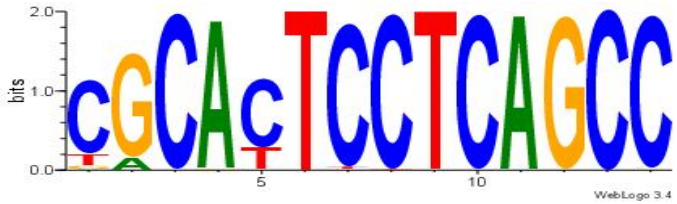

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.106755

Alignment:

```
GCGMGCGGGAACCGGGGCT
------GTAGGCCTAGGCT
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

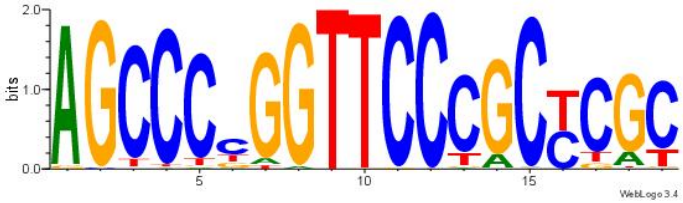

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

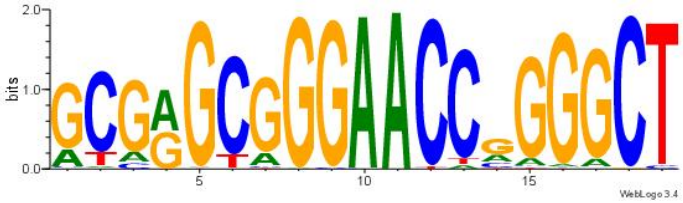

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.106831

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
------GTAGGCCTAGGCT-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

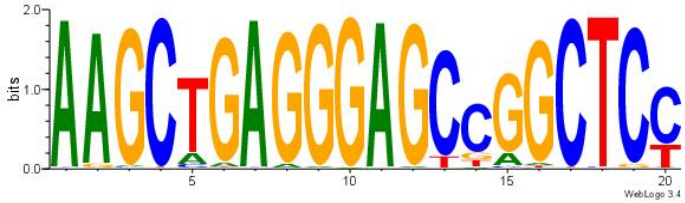

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

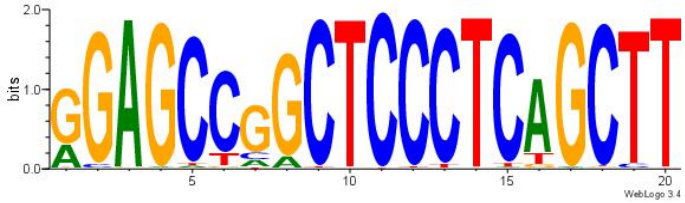

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.106861

Alignment:
ACACCTATTCGCACAC
-AGCCTAGGCCTAC--

Original motif Consensus sequence: ACACCTATTCGCACAC

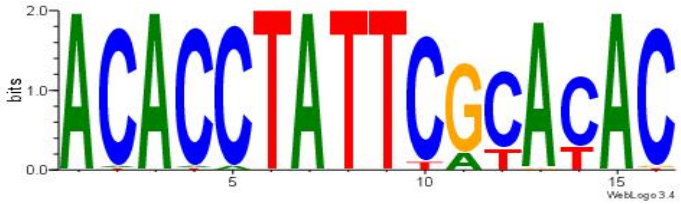

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

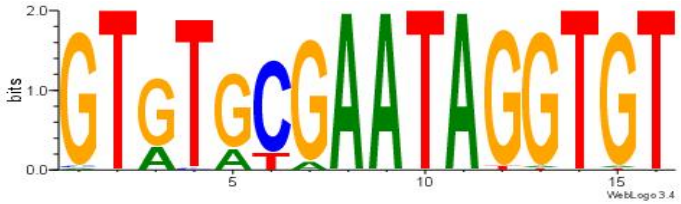

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.106868

Alignment:
GAAHCAACCKAAKTGTCCAT
--AGCCTAGGCCTAC-----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

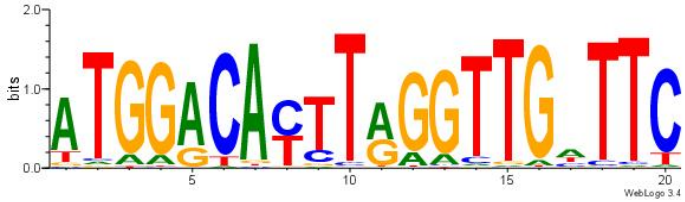

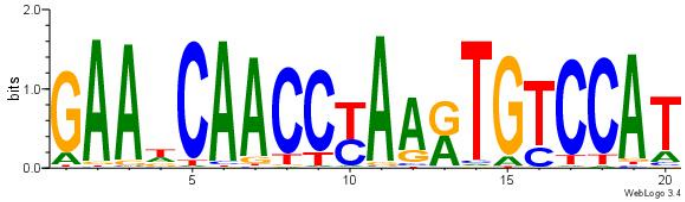

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.107073

Alignment:

```
TGCTCACACAAAGCCTGT
AGCCTAGGCCTAC-----
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

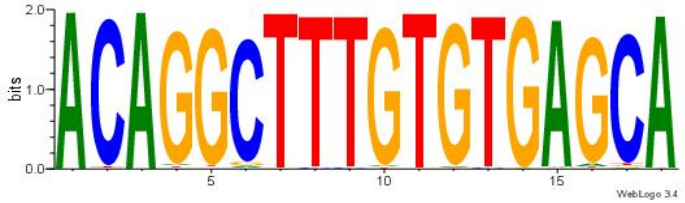

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

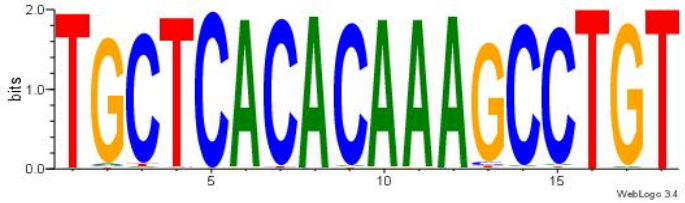

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.107641

Alignment:

```
AGAGCTCTGGCTGGCATCT
--AGCCTAGGCCTAC----
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

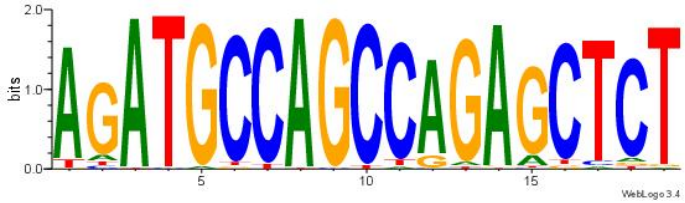

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

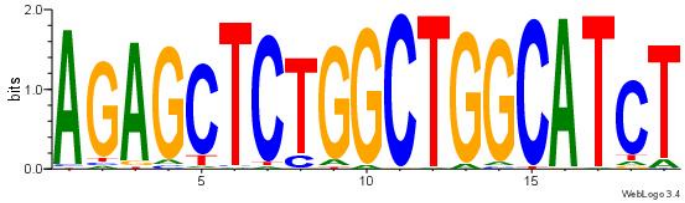

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.107957

Alignment:
GGGAGGGATATATTAGC
-GTAGGCCTAGGCT---

Original motif Consensus sequence: GGGAGGGATATATTAGC

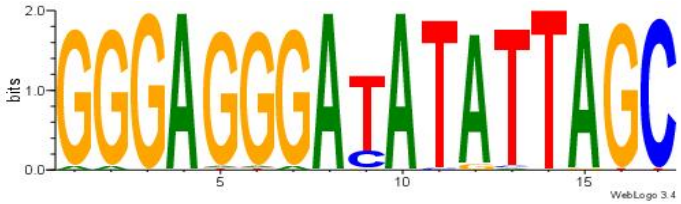

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

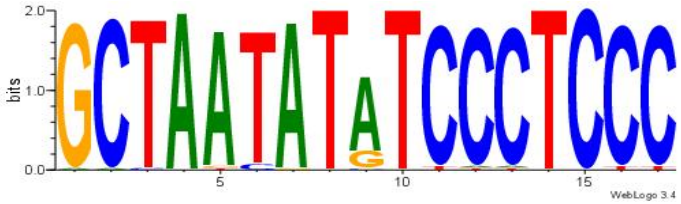

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.108068

Alignment:
CTTGCCCAAGGTCACACAGC
-----AGCCTAGGCCTAC--

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

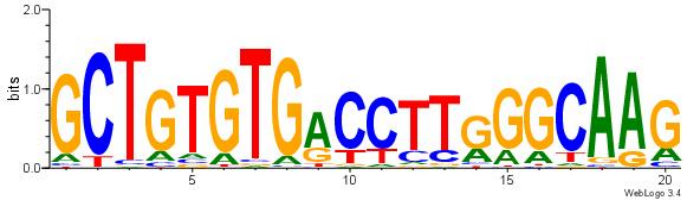

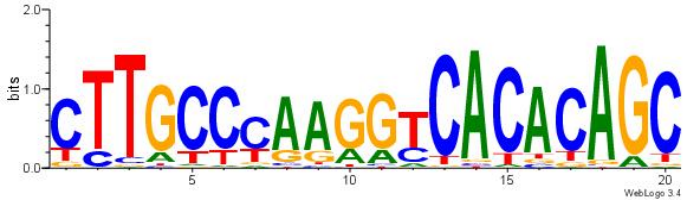

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.108528

Alignment:

```
ACAAGGCAAGTCCCTTCY
---AGCCTAGGCCTAC--
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

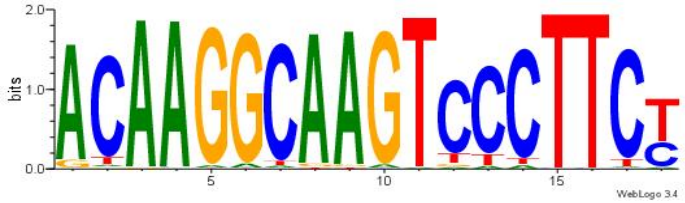

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

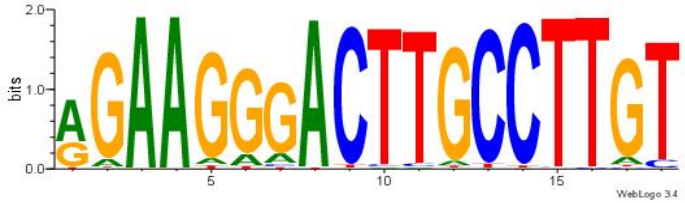

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.109068

Alignment:

```
GKCTGTACCCCCATTGTAT
----GTAGGCCTAGGCT--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

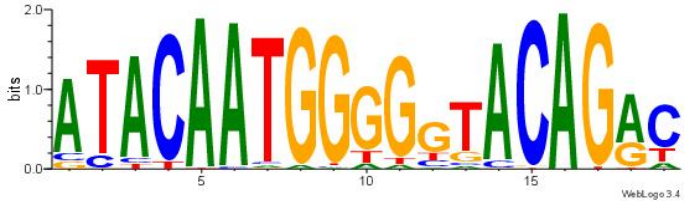

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

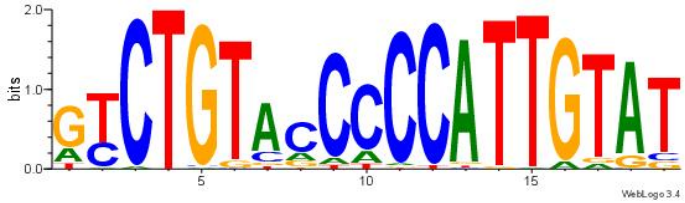

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.109355

Alignment:
AAGTTCTKGGKTACATGTGC
------AGCCTAGGCCTAC-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

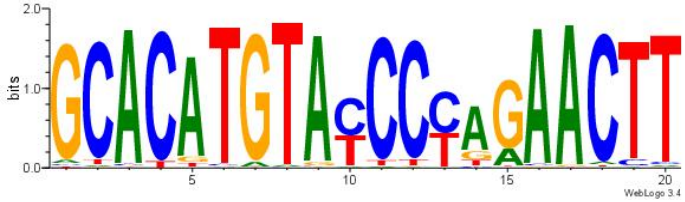

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

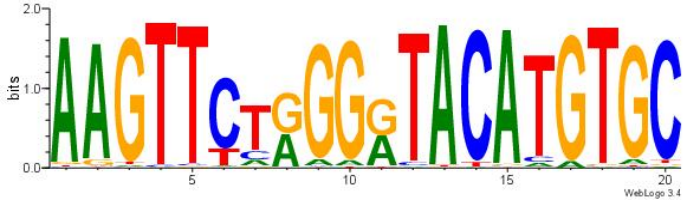

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.10936

Alignment:
GAGGAGGRGGAGGDGGV
--GTAGGCCTAGGCT--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

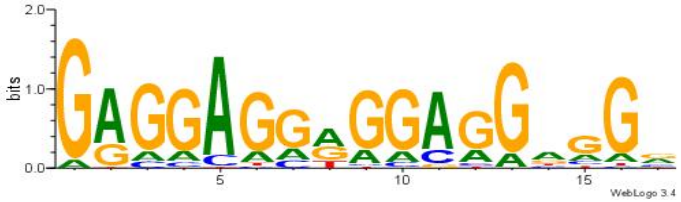

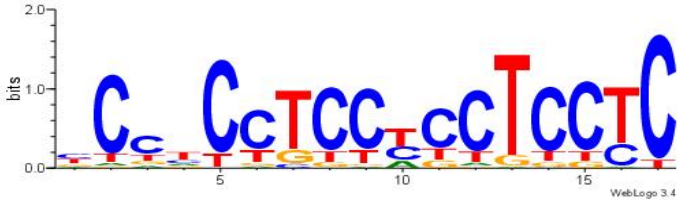

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.109386

Alignment:

```
TACACCCTCCGCAGCC
AGCCTAGGCCTAC---
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

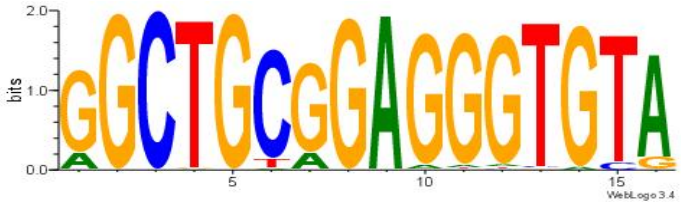

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

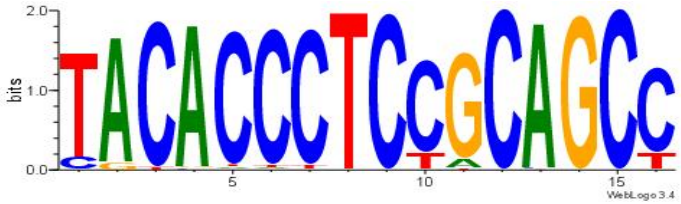

Dataset #:	1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.110024

Alignment:

```
AGACCAGCCTGGCCAAC
AGCCTAGGCCTAC----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

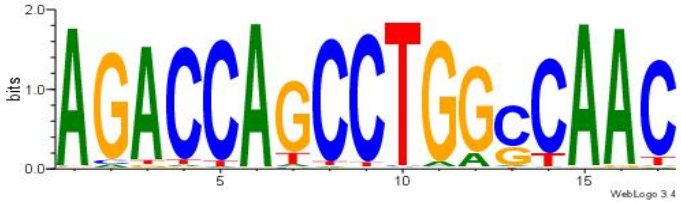

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

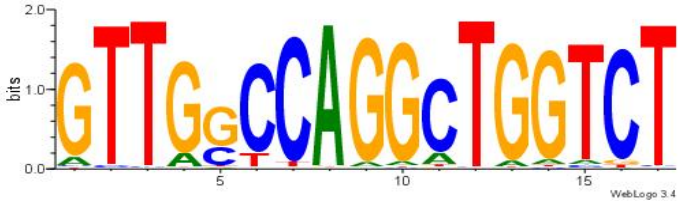

Dataset #:	1
Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.110131

Alignment:
AGGTCAGGAGTTC
AGCCTAGGCCTAC

Original motif Consensus sequence: AGGTCAGGAGTTC

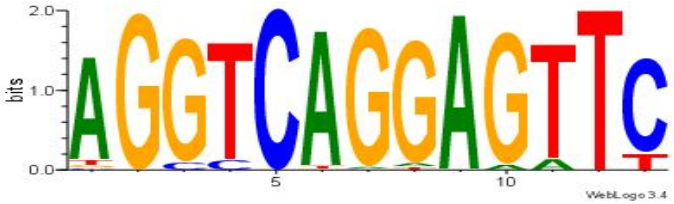

Reverse complement motif Consensus sequence: GAACTCCTGACCT

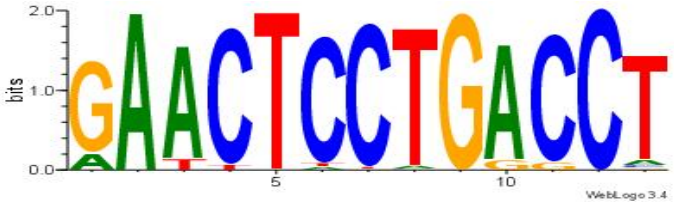

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.110519

Alignment:
TTCAMTCATGATTTGGCTCT
-----GTAGGCCTAGGCT--

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

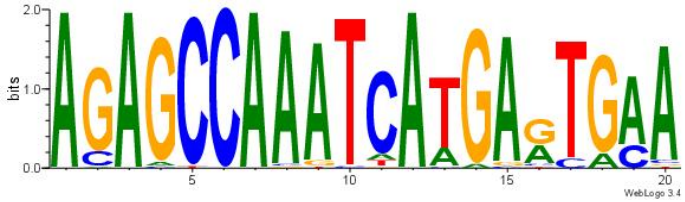

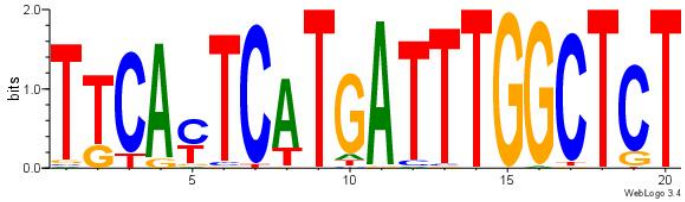

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.111084

Alignment:

```
AACTGAGGCTCAGAGA
---AGCCTAGGCCTAC
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

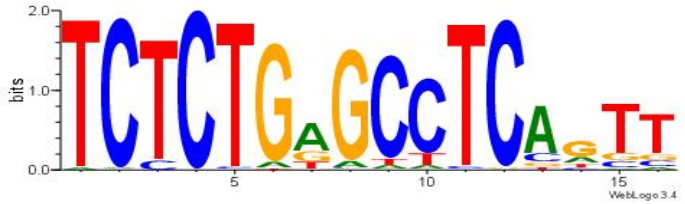

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

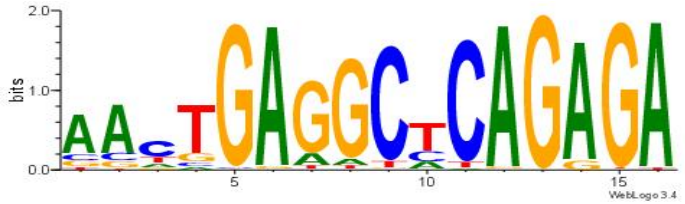

Dataset #:	1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.111382

Alignment:

```
GCACTCTGTMTCTAGCT
--AGCCTAGGCCTAC--
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

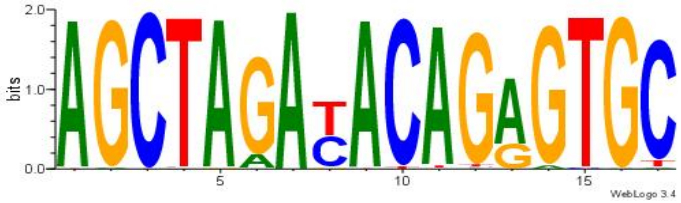

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

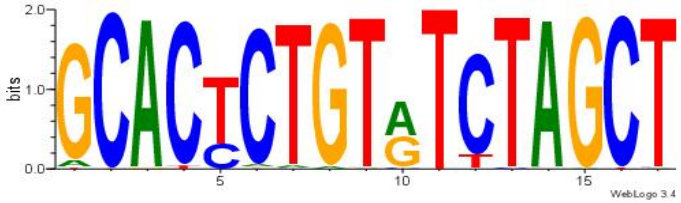

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.112663

Alignment:
MGCTGAGGCAGGAG
AGCCTAGGCCTAC-

Original motif Consensus sequence: CTCCTGCCTCAGCY

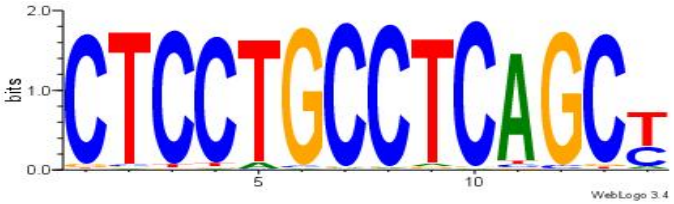

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

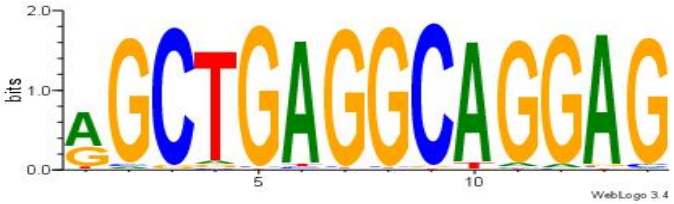

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.113091

Alignment:
GCCKGGMKCMGTGGCTCAKG
---GTAGGCCTAGGCT----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

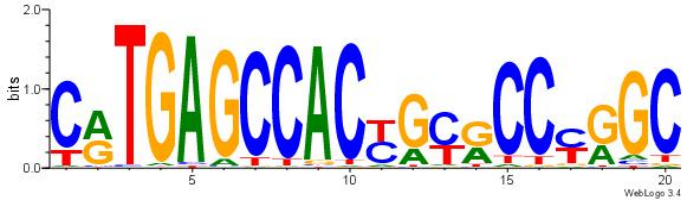

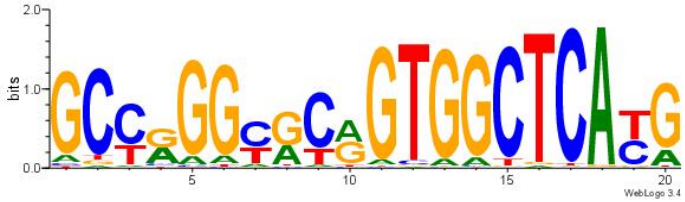

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.11362

Alignment:

```
CTGGGCRACAGAGYRAGACY
GTAGGCCTAGGCT-------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

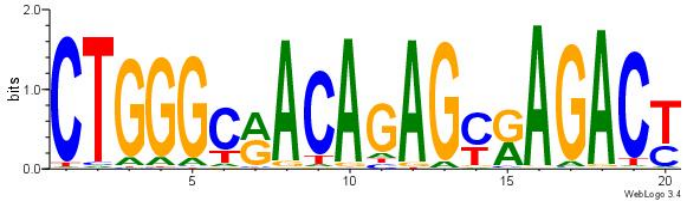

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

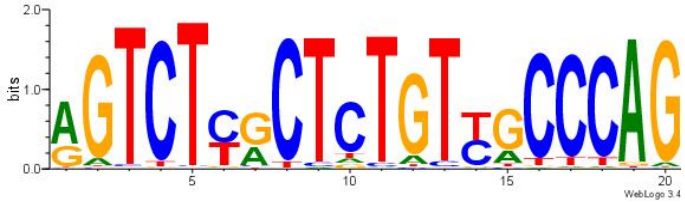

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.114623

Alignment:

```
ATAGGAATGCTTGTGATTTT
----GTAGGCCTAGGCT---
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

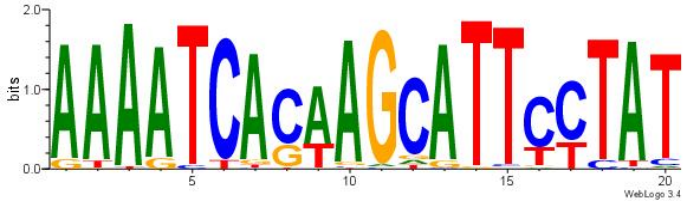

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

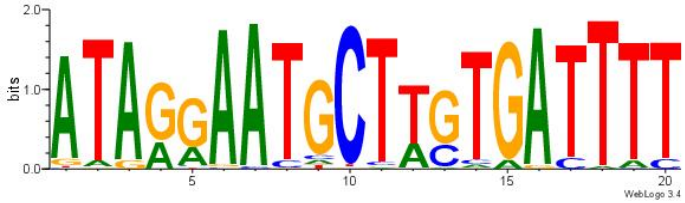

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.114639

Alignment:
AATCAACCCTGGYRATCAAT
----AGCCTAGGCCTAC---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

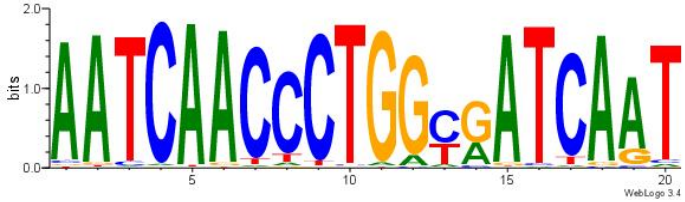

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

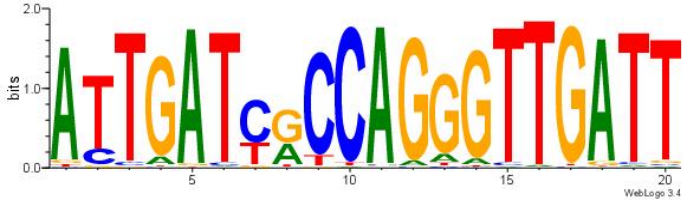

Dataset #: 1 Motif ID: 274 Motif name: Motif 274

Original motif Consensus sequence: CTGGTCAAGGAAA

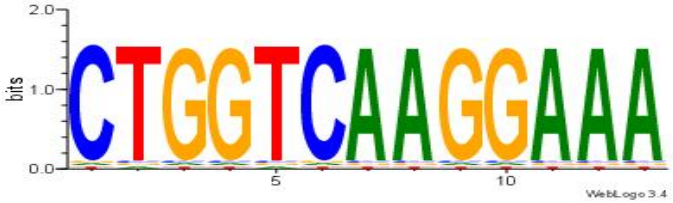

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

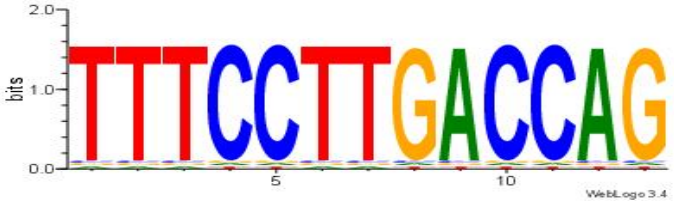

Best Matches for Motif ID 274 (Highest to Lowest)

Dataset #:	1
Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0483985

Alignment:
CKAGTCAAAGAAA
CTGGTCAAGGAAA

Original motif Consensus sequence: CKAGTCAAAGAAA

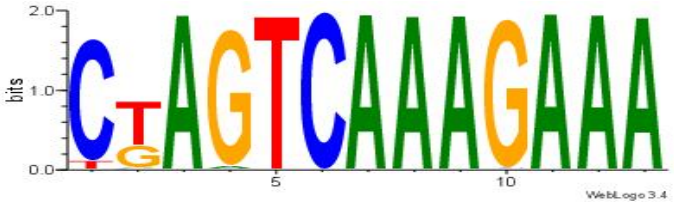

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

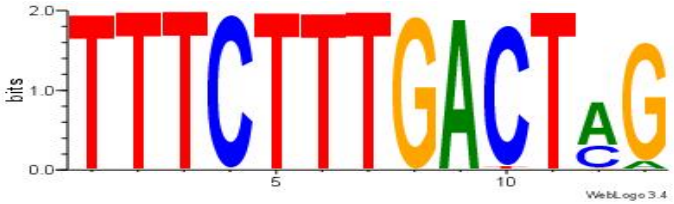

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0763683

Alignment:
CCACCACAGCTCAAGGAGGC
------CTGGTCAAGGAAA-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

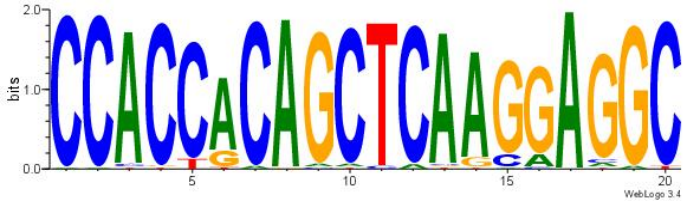

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

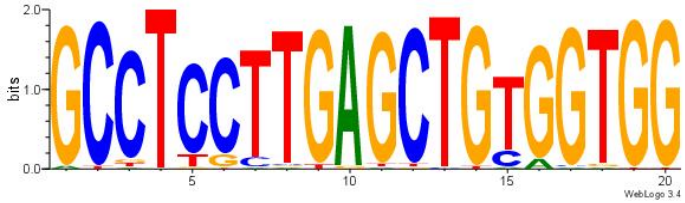

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.077238

Alignment:

```
CTGGGCAACAAGAG
-CTGGTCAAGGAAA
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

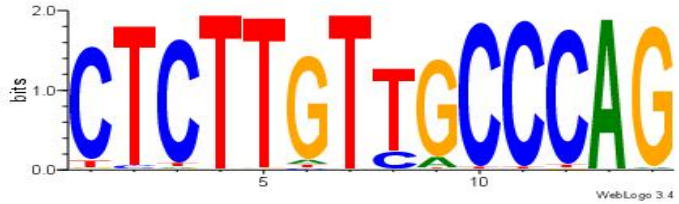

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

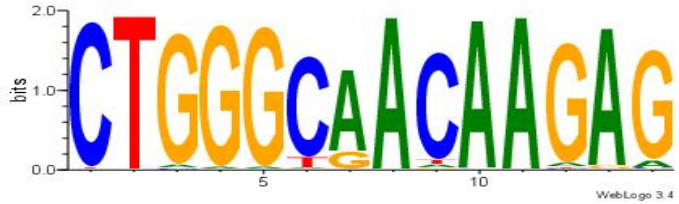

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0876128

Alignment:

```
AGGTCCTTCAGGAGGTATTC
------TTTCCTTGACCAG-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

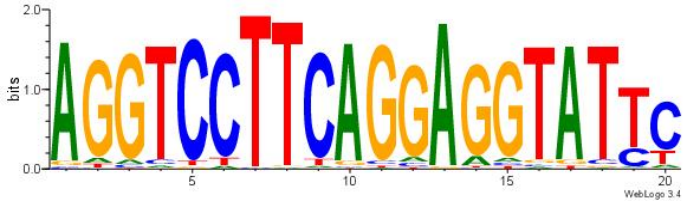

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

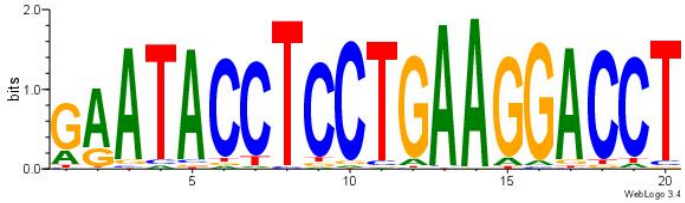

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0913407

Alignment:
CCTGCCATTGCYSAGGCTTG
-----TTTCCTTGACCAG--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

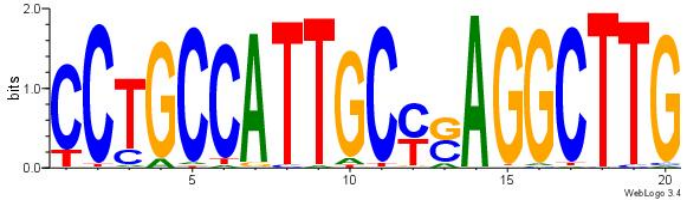

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

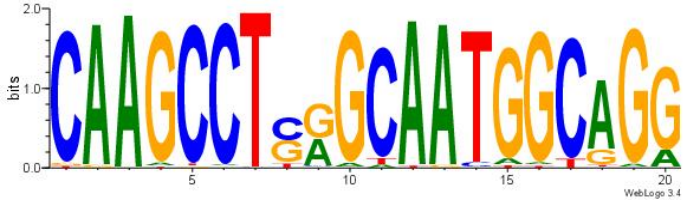

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0917427

Alignment:
HAGTGGKATTGCTGGATCAT
-------TTTCCTTGACCAG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

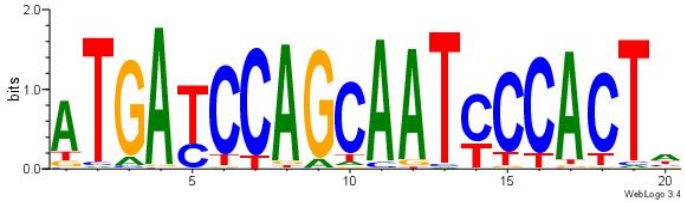

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

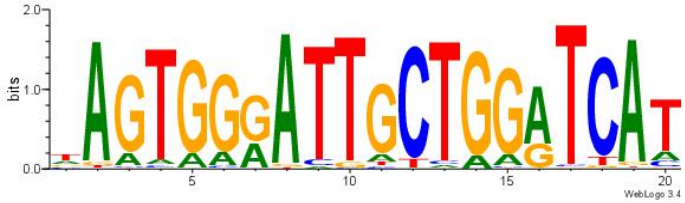

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0937147

Alignment:

```
ACAGGCTGTCCCAGGATTC
-CTGGTCAAGGAAA-----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

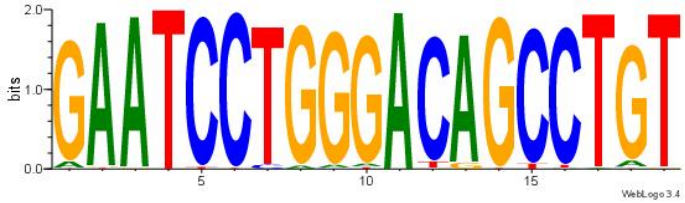

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

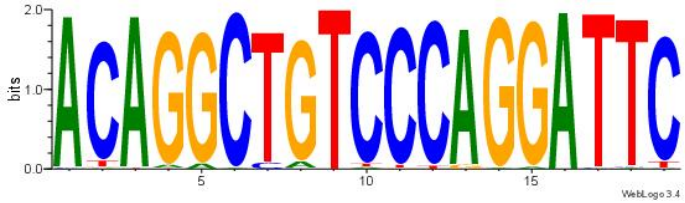

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0938376

Alignment:

```
AAGCAGGGCGAGGCATTGCC
---CTGGTCAAGGAAA----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

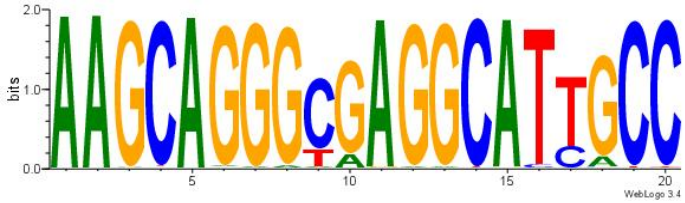

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

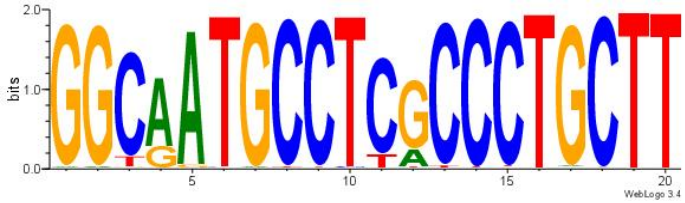

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.0939397

Alignment:
CTTGGGTGGTCGATGGGAC
-CTGGTCAAGGAAA-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

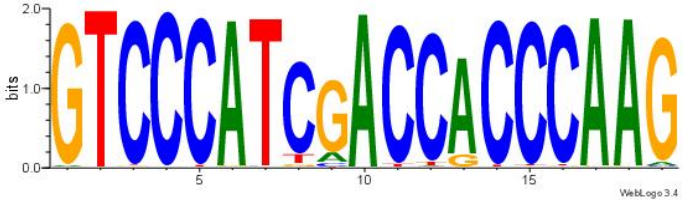

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

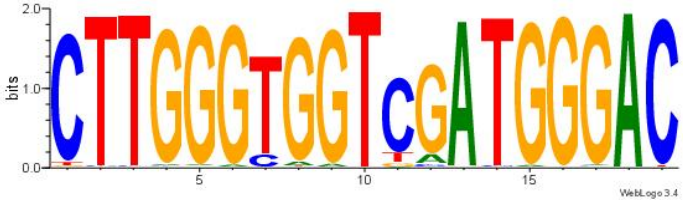

Dataset #: 1
Motif ID: 255
Motif name: Motif 255
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0939434

Alignment:
TTTGTTATAGCAG
TTTCCTTGACCAG

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

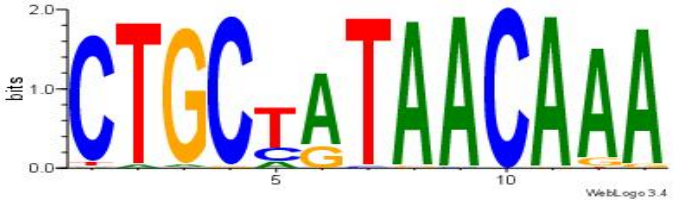

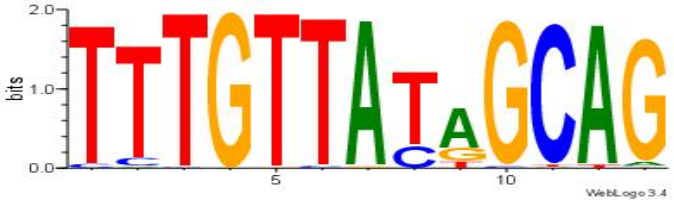

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0940788

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
----CTGGTCAAGGAAA---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

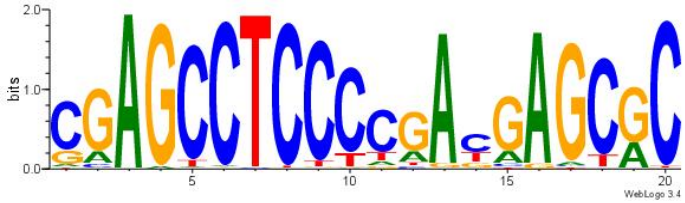

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

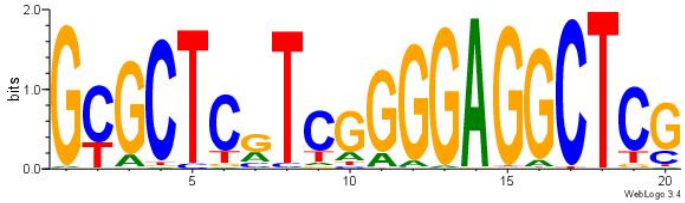

Dataset #:	1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0960103

Alignment:

```
CCTTGGCCAGCCCAGAAAG
----TTTCCTTGACCAG--
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

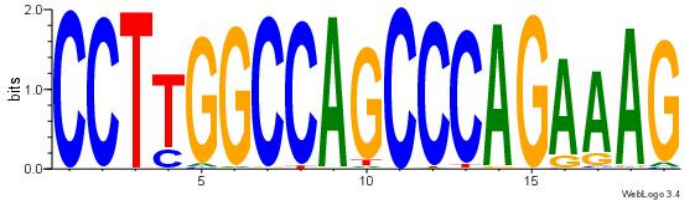

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

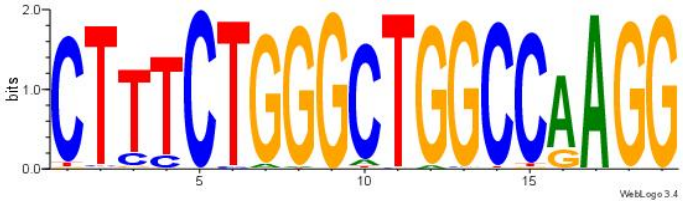

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.0972649

Alignment:
CACCTCCCAGACMGGGT
--TTTCCTTGACCAG--

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

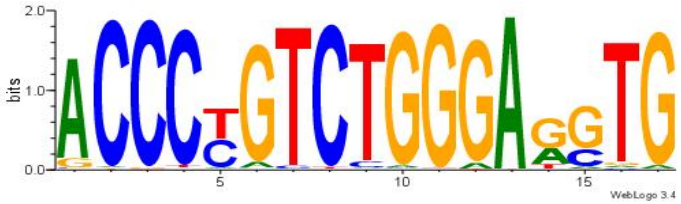

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

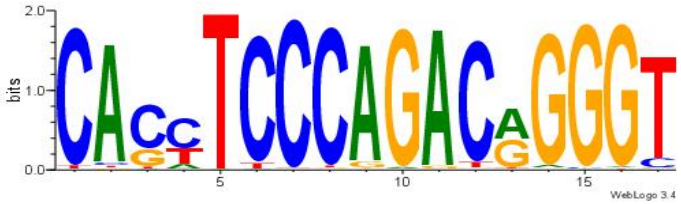

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 13
Similarity score: 0.0982049

Alignment:
CTGGGCRACAGAGYRAGACY
CTGGTCAAGGAAA-------

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

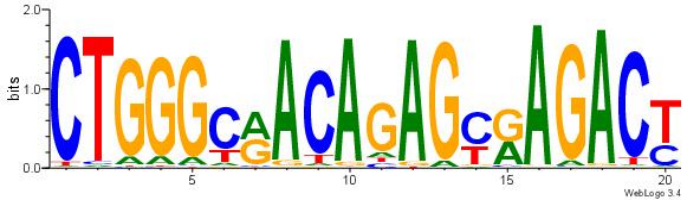

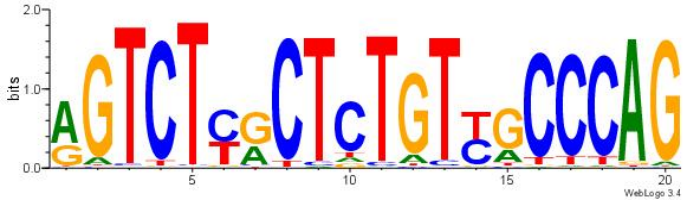

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0986301

Alignment:

```
CTTGCCCAAGGTCACACAGC
------CTGGTCAAGGAAA-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

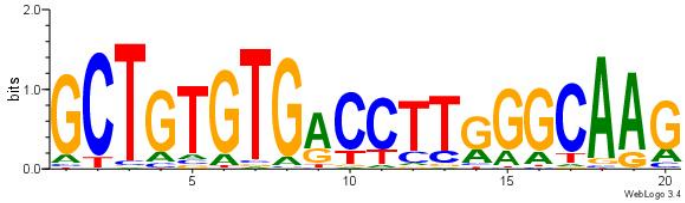

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

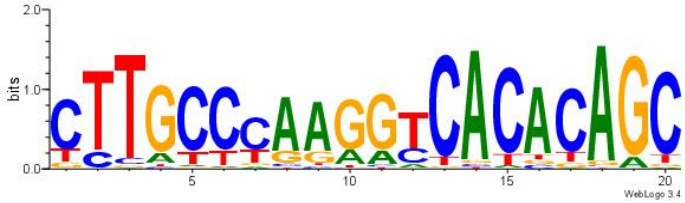

Dataset #:	1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0993787

Alignment:

```
AAGAGGTTTAATTGRCTCA
TTTCCTTGACCAG------
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

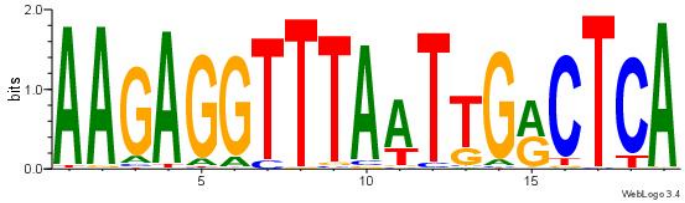

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

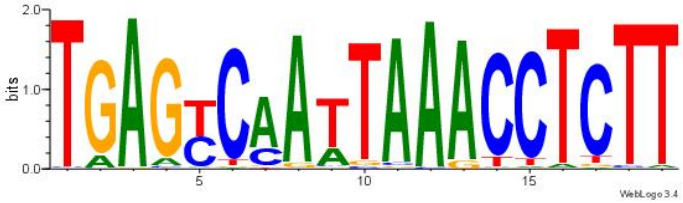

Dataset #:	1
Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.100884

Alignment:
CKCGTCSGGGAGG
CTGGTCAAGGAAA

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

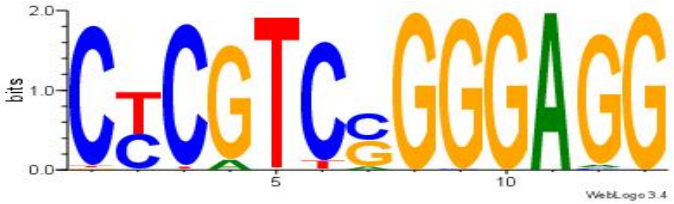

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.101619

Alignment:
ATCRCTTGAGSYCAGGAGKT
-------TTTCCTTGACCAG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

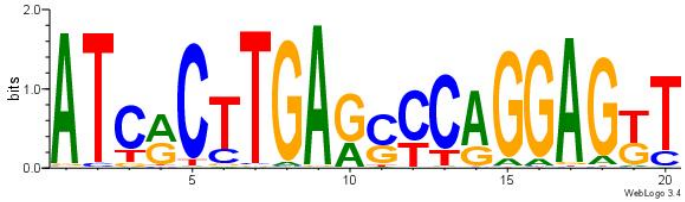

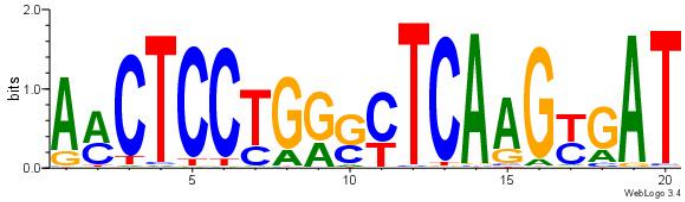

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.101718

Alignment:

```
AGTAGGTGCTCARTAAATRB
-----CTGGTCAAGGAAA--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

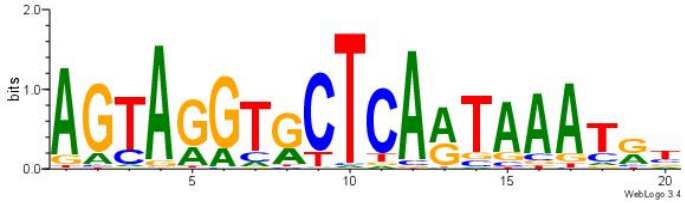

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

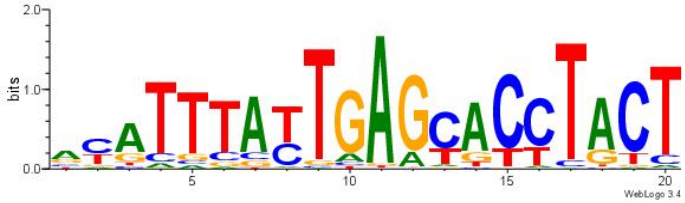

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.102646

Alignment:

```
CAAASCKGTCATAGGCCAT
------TTTCCTTGACCAG
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

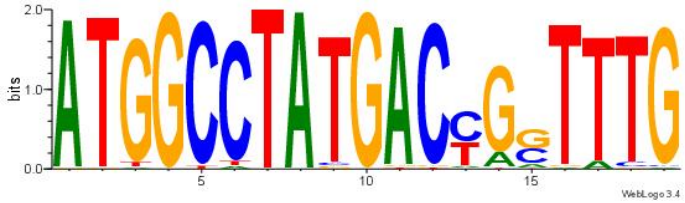

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

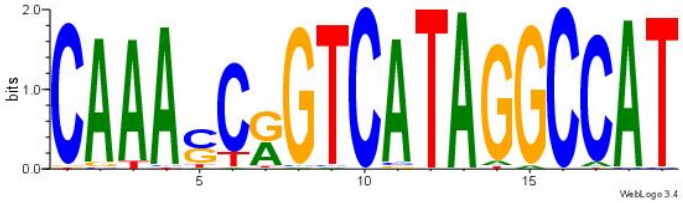

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.102845

Alignment:
GCCAGTCACAAAARGACAMA
-CTGGTCAAGGAAA------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

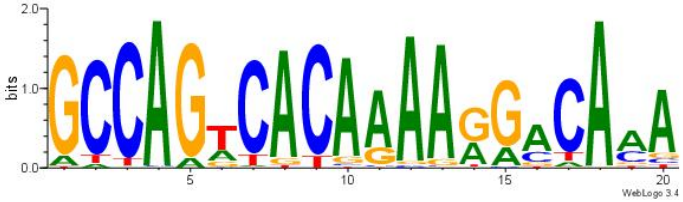

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

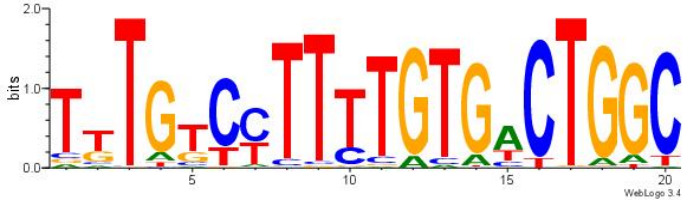

Dataset #: 1
Motif ID: 289
Motif name: Motif 289
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.103192

Alignment:
TTTGGTGCACCCATCA
TTTCCTTGACCAG---

Original motif Consensus sequence: TGATGGGTGCACCAAA

Reverse complement motif Consensus sequence:
TTTGGTGCACCCATCA

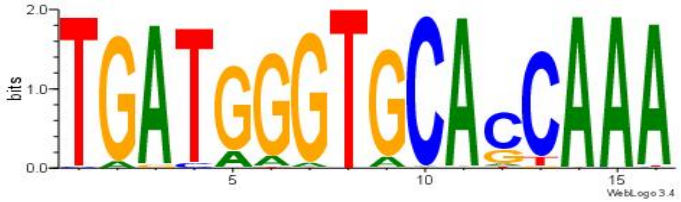

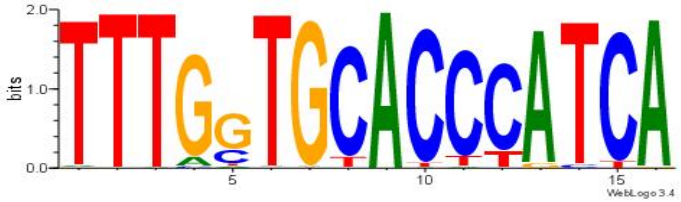

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.10346

Alignment:

```
ATGTGGAGGTGGAAGACAGT
--CTGGTCAAGGAAA-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

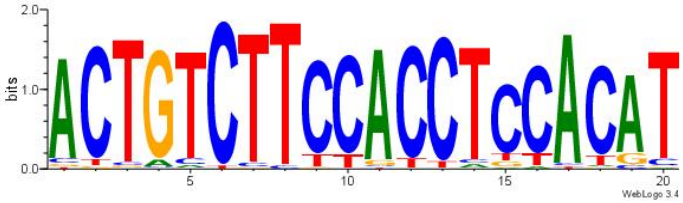

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

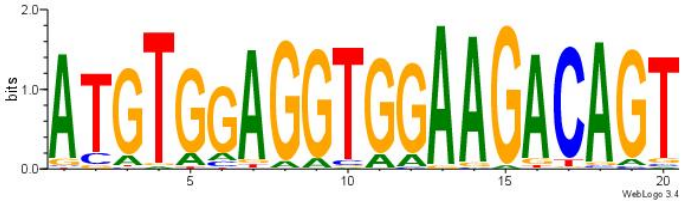

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.103557

Alignment:

```
KKCACCTTGATCTTGGACTT
-TTTCCTTGACCAG------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

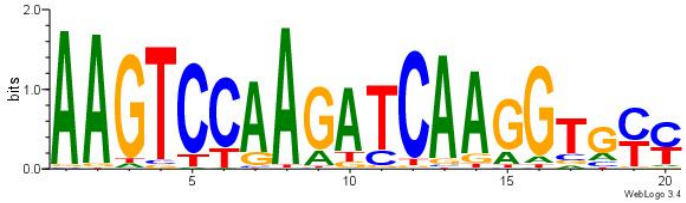

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

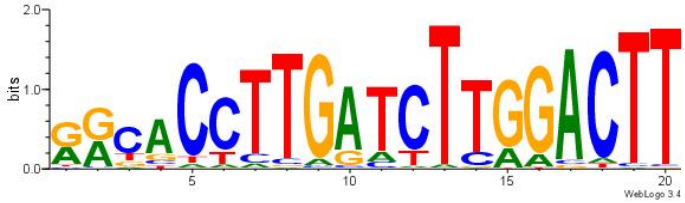

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.103886

Alignment:
CGCCCCGTCTGGGAAGTG
--CTGGTCAAGGAAA---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

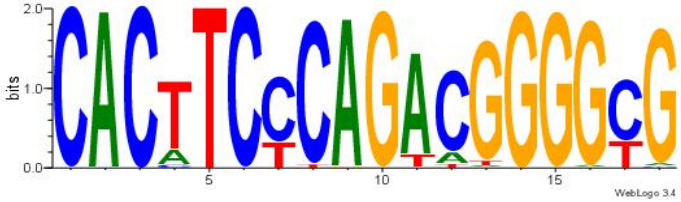

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

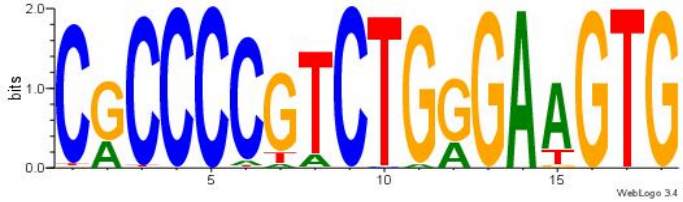

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.104293

Alignment:
GCTGGCCCKGGTGCTAAGC
-----CTGGTCAAGGAAA-

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

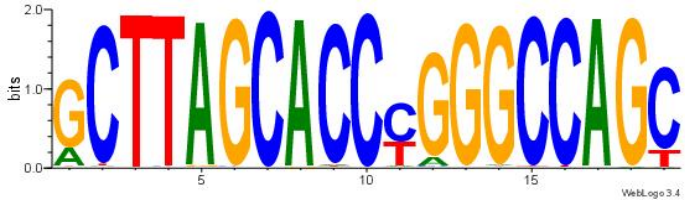

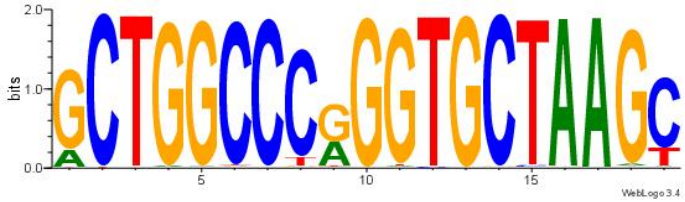

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.104458

Alignment:

```
TAATTTTATGTGTCAACTTG
----TTTCCTTGACCAG---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

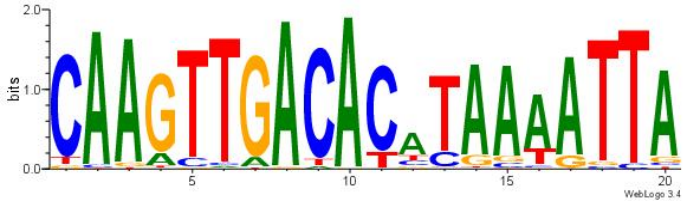

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

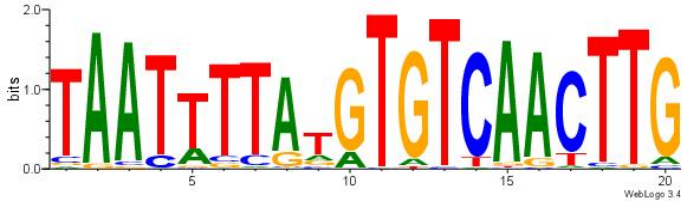

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.105599

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
--CTGGTCAAGGAAA-----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

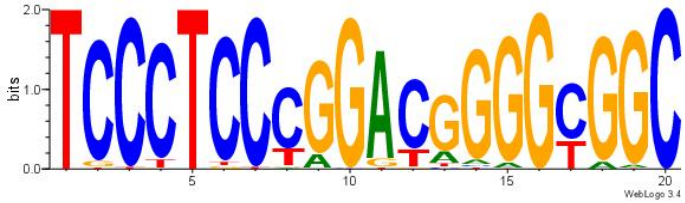

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

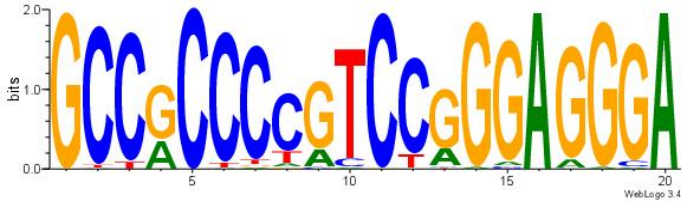

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.106939

Alignment:
GGTTTTCCATTCCTGAG
----TTTCCTTGACCAG

Original motif Consensus sequence: CTCAGGAATGGAAAACC

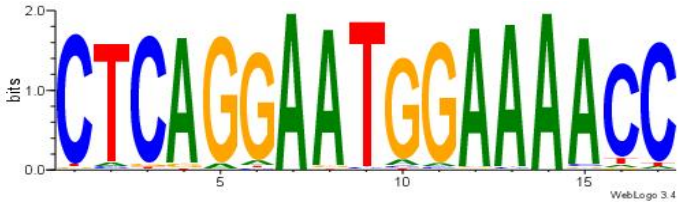

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

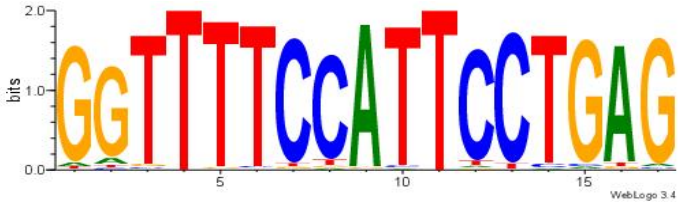

Dataset #: 1
Motif ID: 141
Motif name: Motif 141
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.107551

Alignment:
AAGGTCCATGTAG
CTGGTCAAGGAAA

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

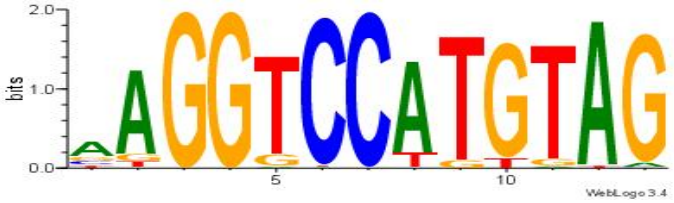

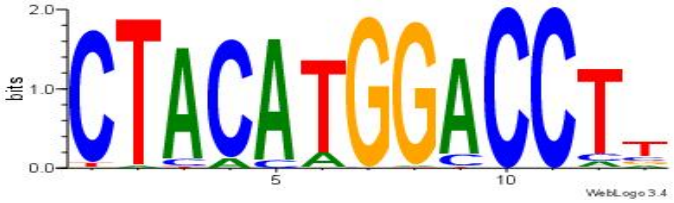

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.107558

Alignment:

```
TGATACCCAGGCAAACAG
--CTGGTCAAGGAAA---
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

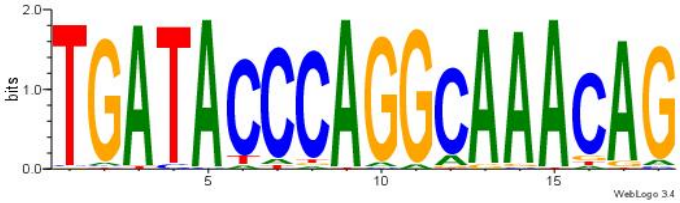

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

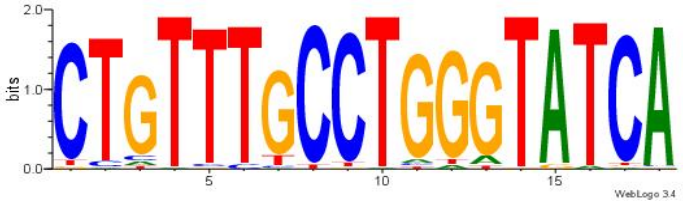

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.10852

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
--CTGGTCAAGGAAA-----
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

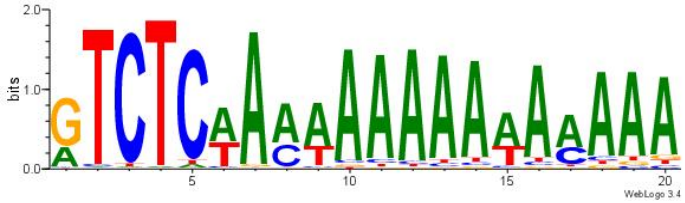

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

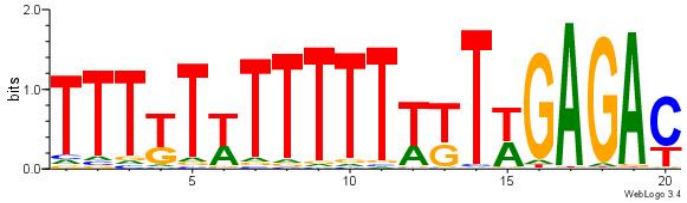

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.108619

Alignment:
GCCGTTTKTTAAGCCCGTY
--TTTCCTTGACCAG----

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

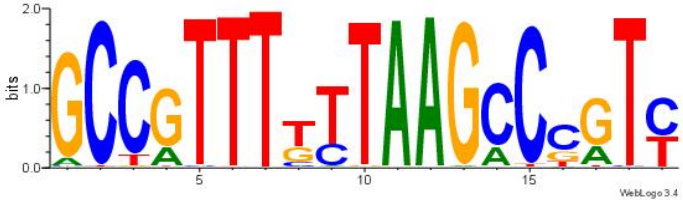

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

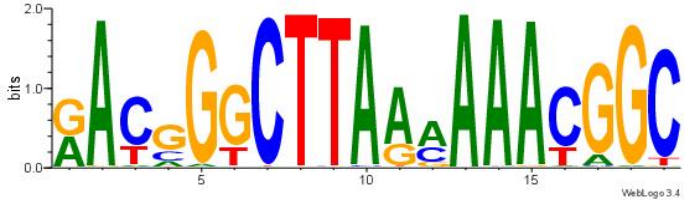

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.108627

Alignment:
AAATTAGGCCAATTAATAAC
----CTGGTCAAGGAAA---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

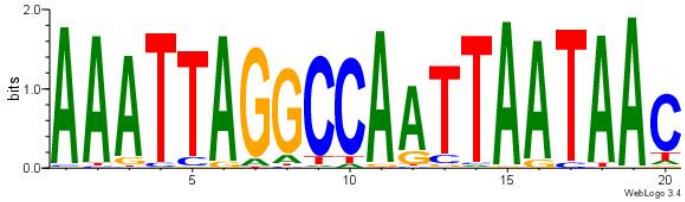

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.108815

Alignment:

```
AAGTTCTKGGKTACATGTGC
-------CTGGTCAAGGAAA
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

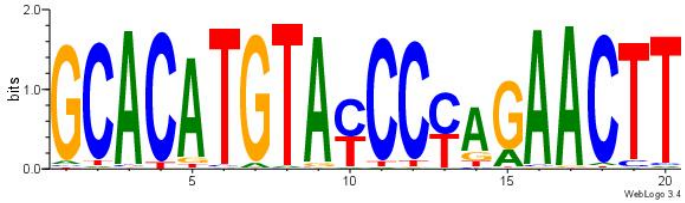

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

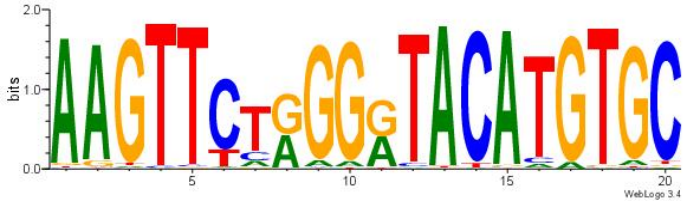

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10898

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
----TTTCCTTGACCAG---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

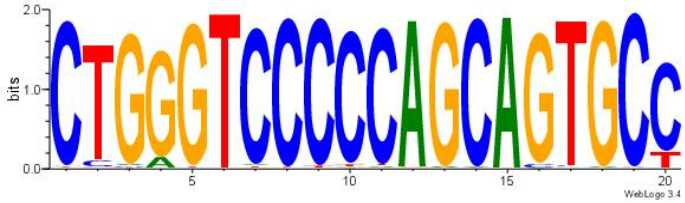

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

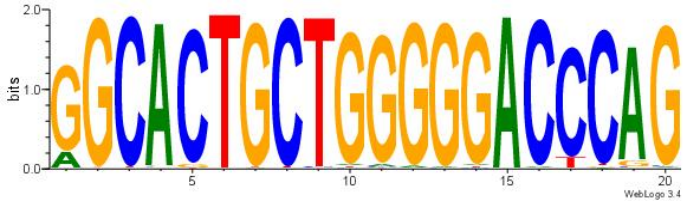

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.109105

Alignment:
CGAGCCCTGCCCCGCGG
---TTTCCTTGACCAG-

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

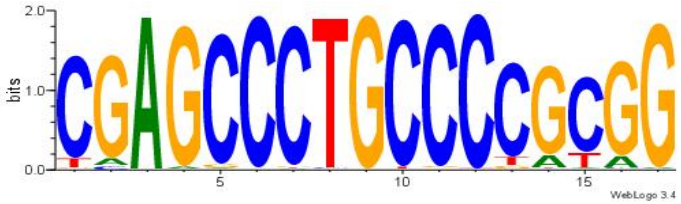

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

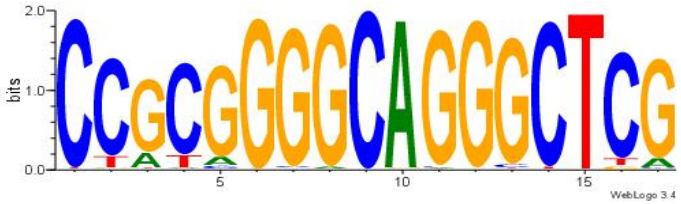

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.109131

Alignment:
GCCTCTCCCTCCACACCTCC
----TTTCCTTGACCAG---

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

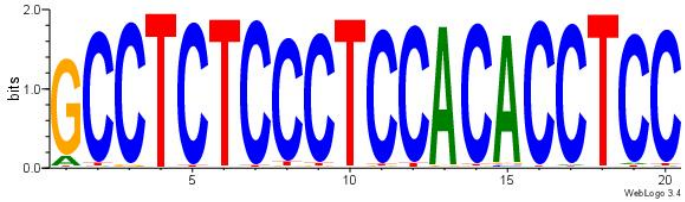

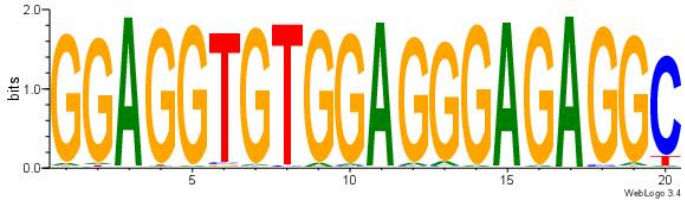

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.111059

Alignment:

```
CCCCGGGCAGTGAGGG
-CTGGTCAAGGAAA--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

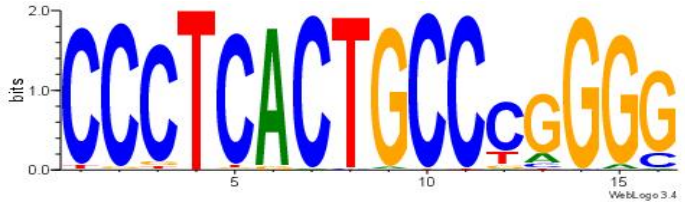

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

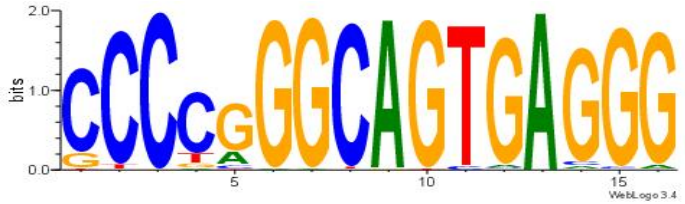

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.11173

Alignment:

```
GTKTMTATMTACCACATTTT
--TTTCCTTGACCAG-----
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

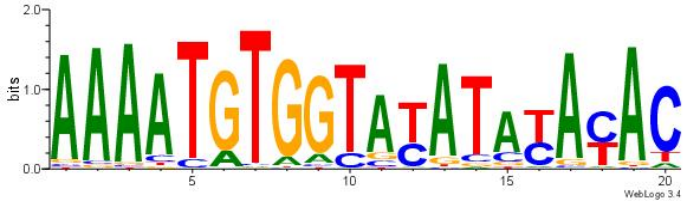

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

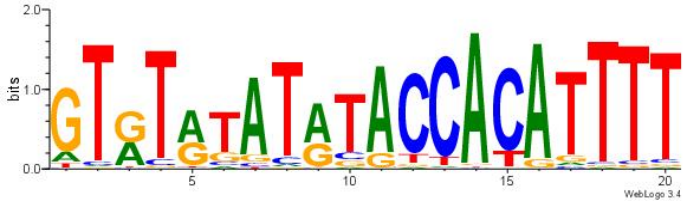

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.112292

Alignment:
CGCCCATCGTCTGGGATGT
-CTGGTCAAGGAAA-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

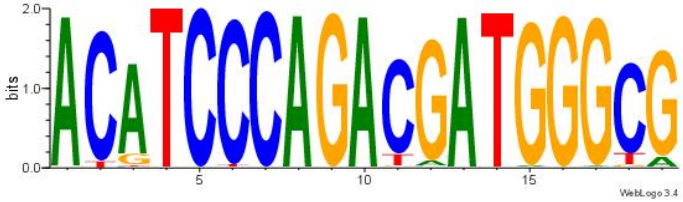

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

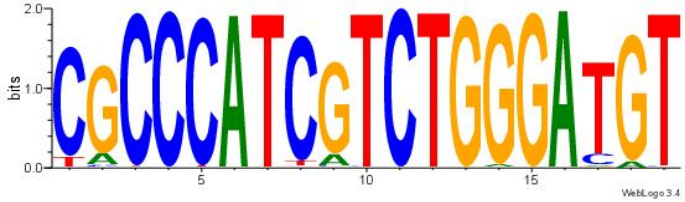

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.112472

Alignment:
AGACAGTGGGYGCAGGHCA
------CTGGTCAAGGAAA

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

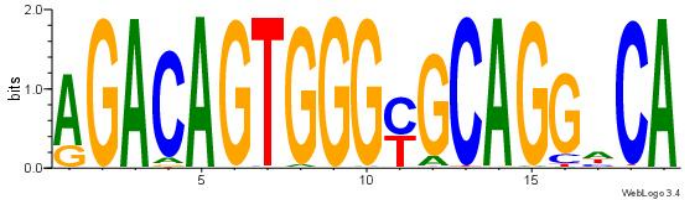

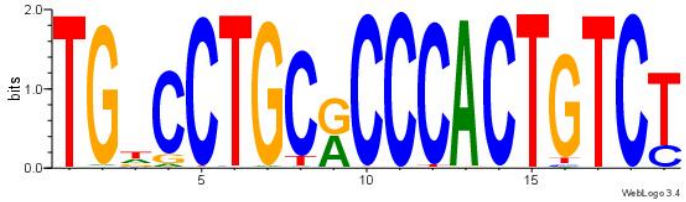

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.112587

Alignment:

```
CGTCCATCACCCC
TTTCCTTGACCAG
```

Original motif Consensus sequence: CGTCCATCACCCC

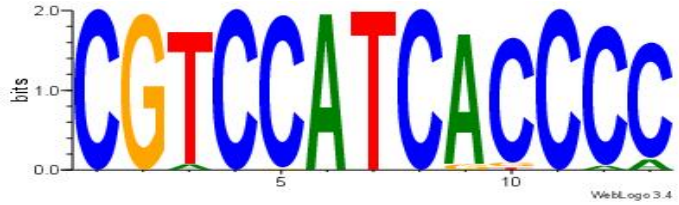

Reverse complement motif Consensus sequence: GGGGTGATGGACG

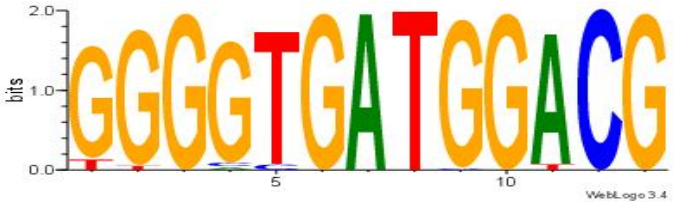

Dataset #:	1
Motif ID:	45

Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.113118

Alignment:

```
TGCCCAGTCTGGAAAGTG
---CTGGTCAAGGAAA--
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

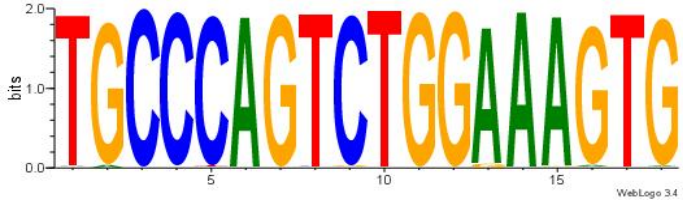

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

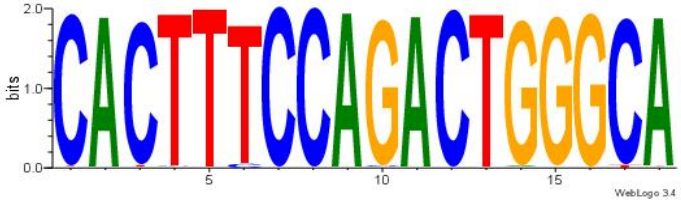

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.113485

Alignment:
GTAGACKGGAGCTGTTCCT
-TTTCCTTGACCAG-----

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

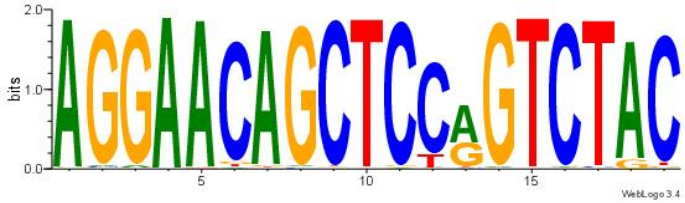

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

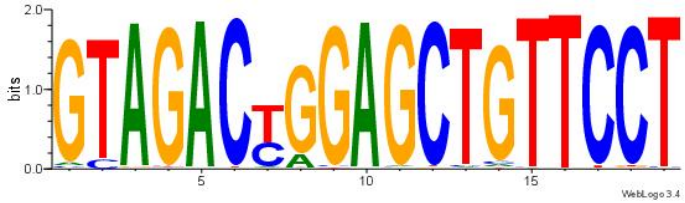

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.113988

Alignment:
AAAGAGAGTCAGCGAAG
----CTGGTCAAGGAAA

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence:
CTTCGCTGACTCTCTTT

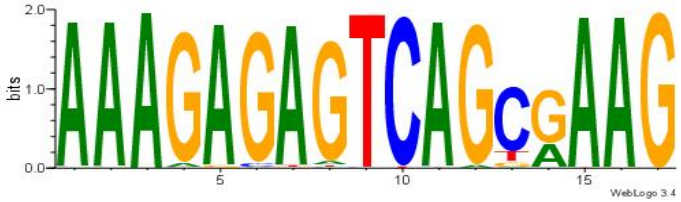

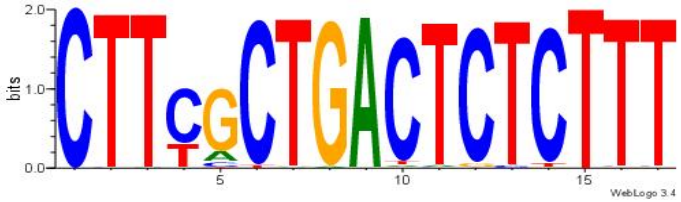

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.115414

Alignment:

```
TGGCTTCACCCAGTGGATCC
TTTCCTTGACCAG-------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

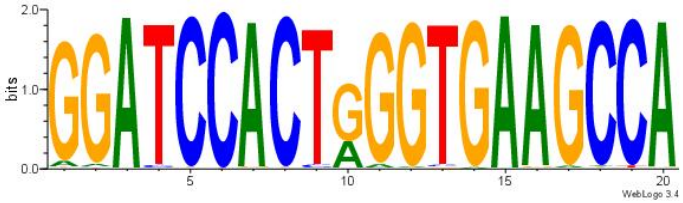

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

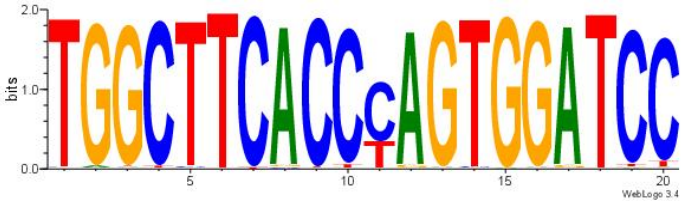

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.115703

Alignment:

```
TCAATGGGCTCCCAAATG
---CTGGTCAAGGAAA--
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

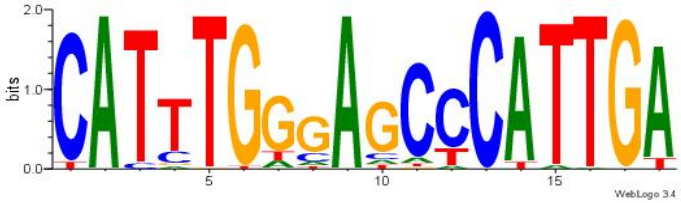

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

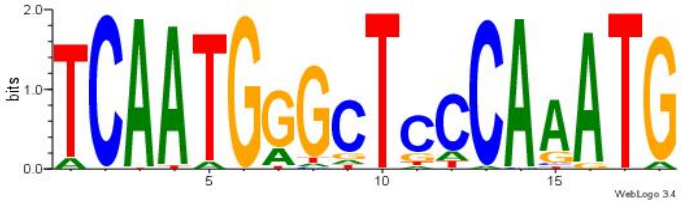

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.115971

Alignment:
TCACKMGGGAAGCGCAAG
-CTGGTCAAGGAAA----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

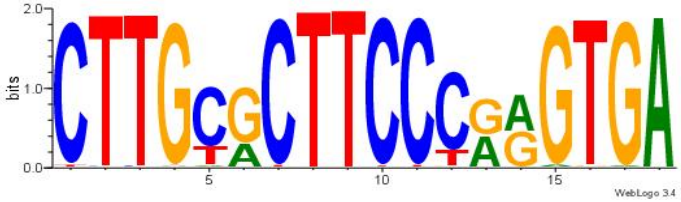

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

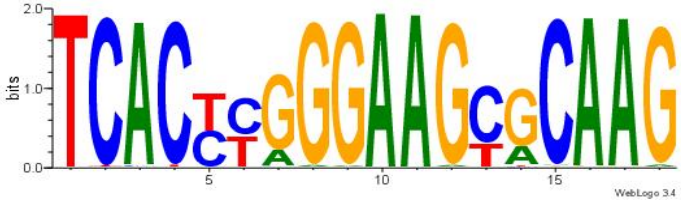

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.116587

Alignment:
ACTCCCTAGTGAGATGAACC
--CTGGTCAAGGAAA-----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

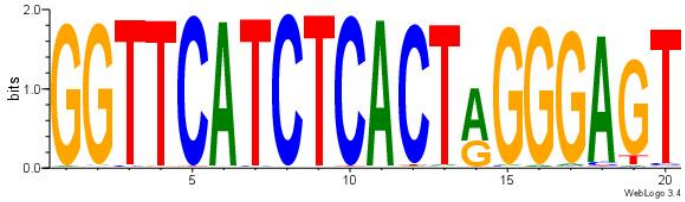

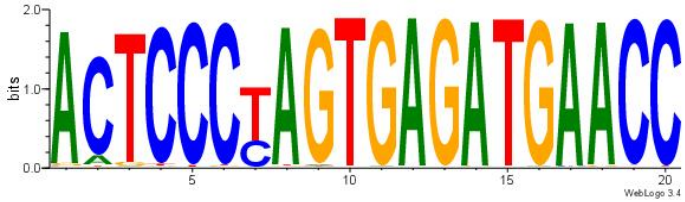

Dataset #: 1 Motif ID: 275 Motif name: Motif 275

Original motif Consensus sequence: CTCACAGAGTTAAA

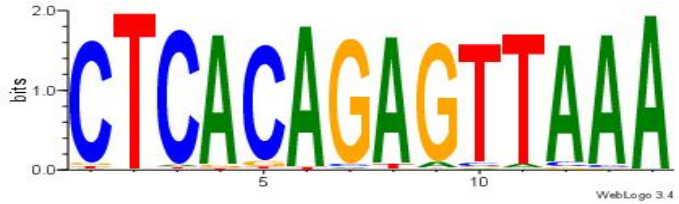

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

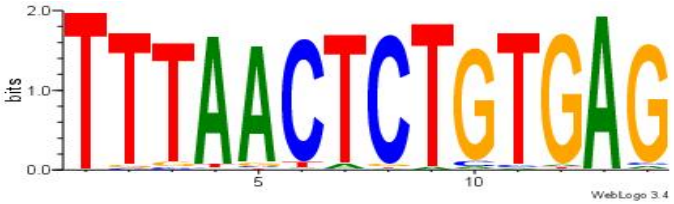

Best Matches for Motif ID 275 (Highest to Lowest)

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0799887

Alignment:

```
CGTCGCTCACGCTGGGAGCT
----TTTAACTCTGTGAG--
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

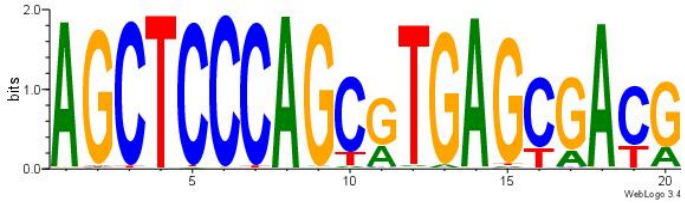

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

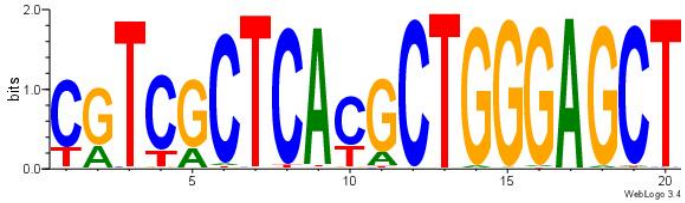

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0822742

Alignment:

```
TWTACCTATGTAACAAACCT
TTTAACTCTGTGAG------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

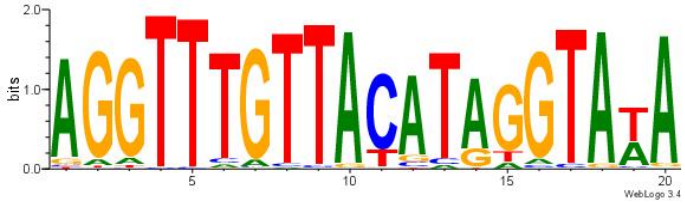

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

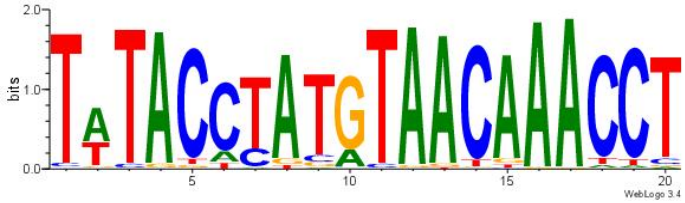

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0838641

Alignment:

```
GGGCTCCCACAGTGCAGCGG
---CTCACAGAGTTAAA---
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

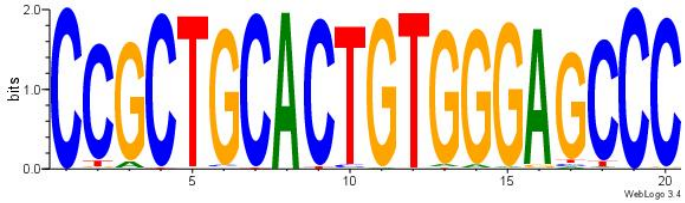

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

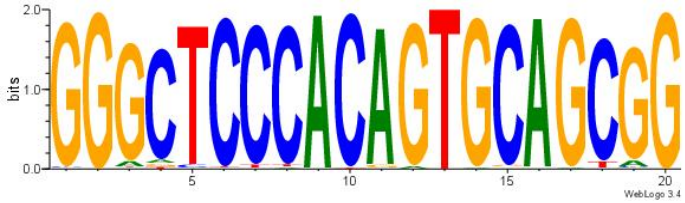

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0840845

Alignment:
GACATGGAGTCAAAGG
CTCACAGAGTTAAA--

Original motif Consensus sequence: GACATGGAGTCAAAGG

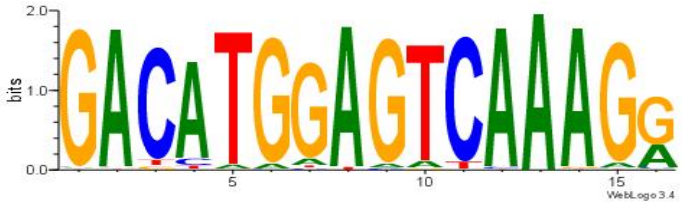

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

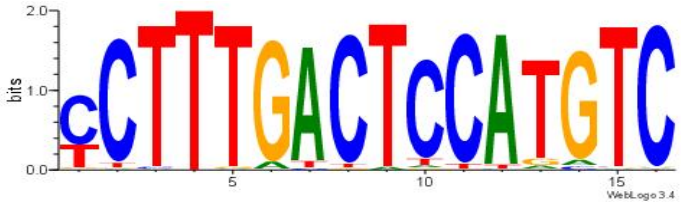

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0858362

Alignment:
MGTCTMKCTCTGTKGCCCAG
--TTTAACTCTGTGAG----

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

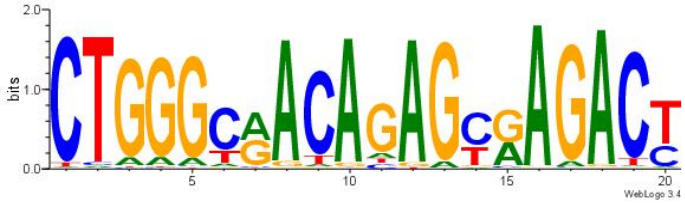

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

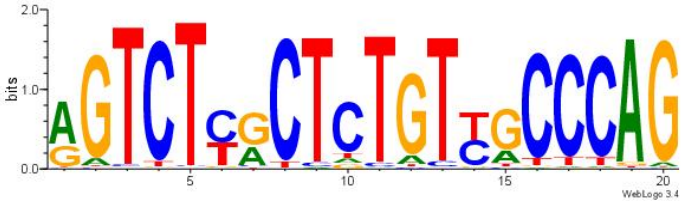

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0872287

Alignment:

```
GGTGCCCCTCTGGGACRAA
---TTTAACTCTGTGAG--
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

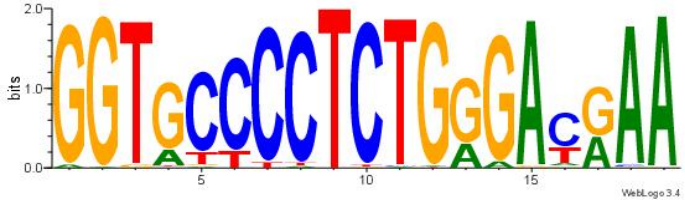

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

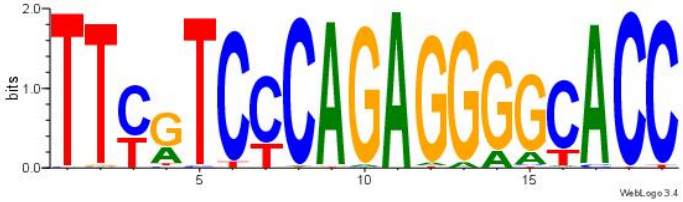

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0929582

Alignment:

```
ACTCCCTAGTGAGATGAACC
--CTCACAGAGTTAAA----
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

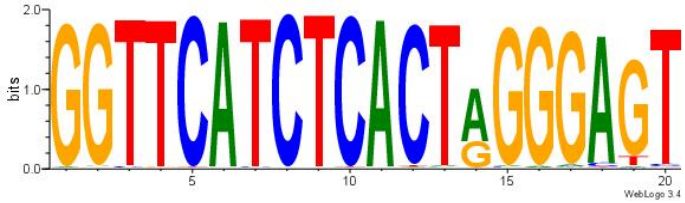

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

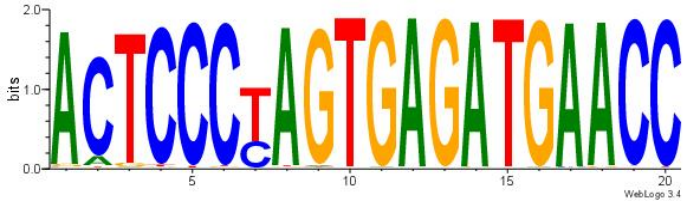

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.093429

Alignment:
GCTCCACCCAGTTCGAGCTT
--CTCACAGAGTTAAA----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

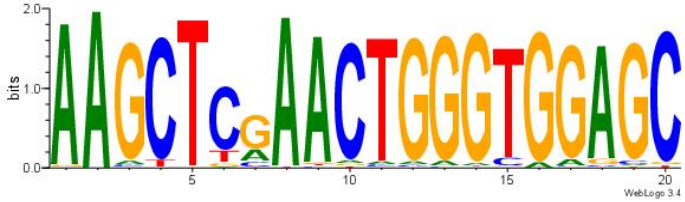

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

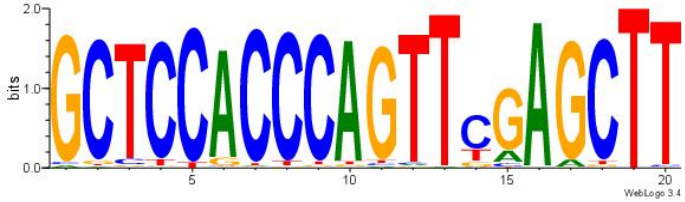

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0949613

Alignment:
TTGTCCCACTGGAAGGTCTT
-TTTAACTCTGTGAG-----

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

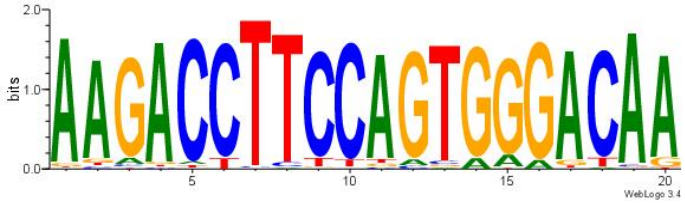

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

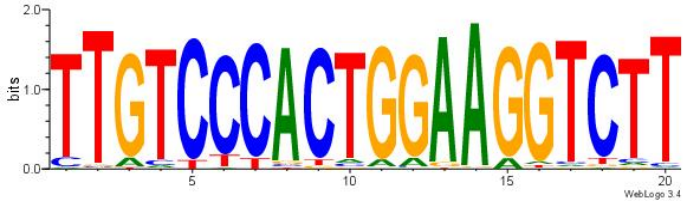

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0957911

Alignment:

```
GGTTTTCCATTCCTGAG
---TTTAACTCTGTGAG
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

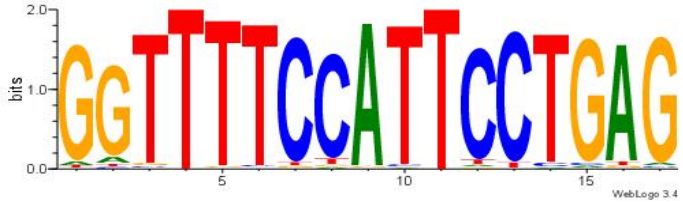

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0967092

Alignment:

```
CATTAGATTCTCATAGGA
--TTTAACTCTGTGAG--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

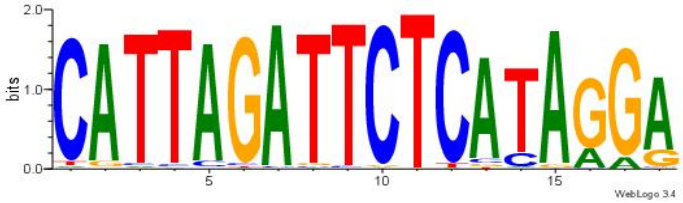

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

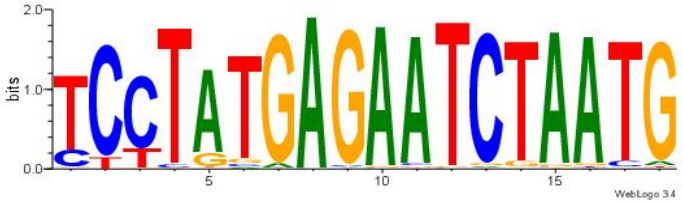

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.0975768

Alignment:
CTGGCCCTCAATGGTTAAAC
-----CTCACAGAGTTAAA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

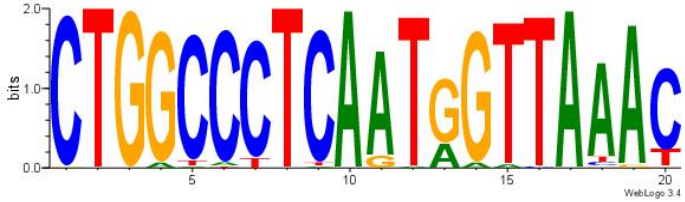

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

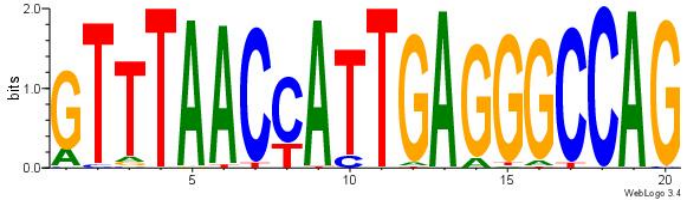

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0981473

Alignment:
AAGTCTCCCAATTACAACT
---CTCACAGAGTTAAA--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

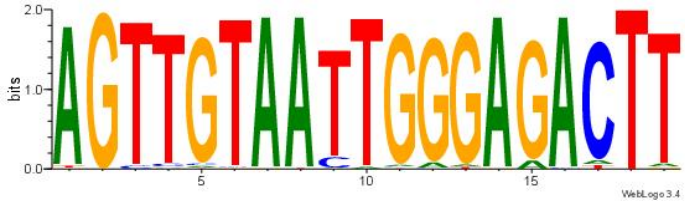

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

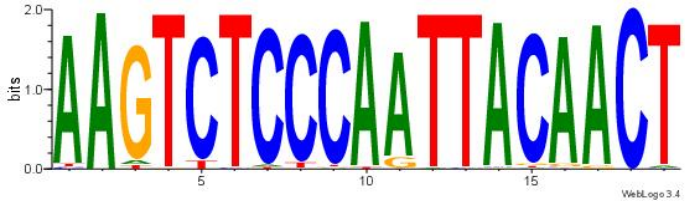

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0987591

Alignment:

```
GACTTCAAGAATGAAGCCG
--CTCACAGAGTTAAA---
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

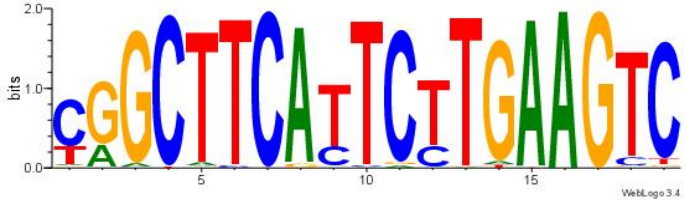

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0991046

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
----TTTAACTCTGTGAG--
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

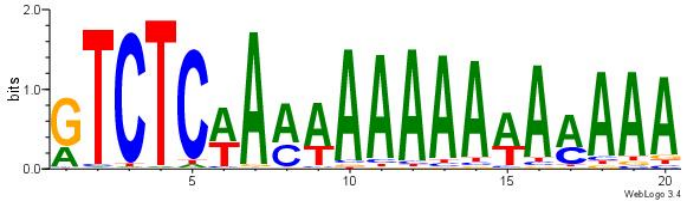

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

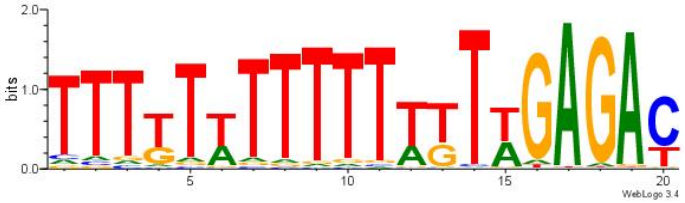

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.0997877

Alignment:
ACTTTCAGGCATAACA
-CTCACAGAGTTAAA-

Original motif Consensus sequence: ACTTTCAGGCATAACA

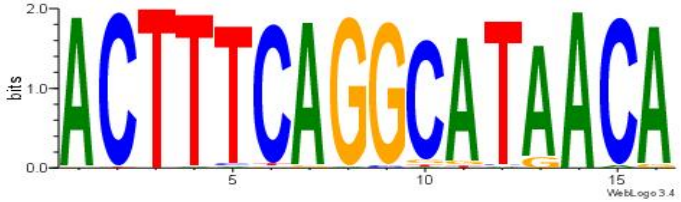

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

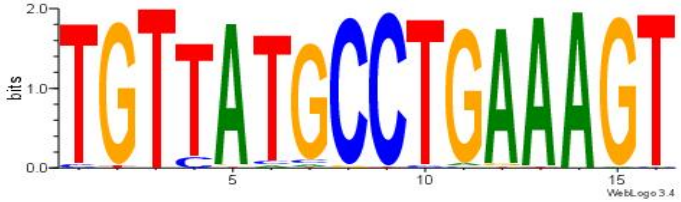

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.0999033

Alignment:
GGATCCACTGGGTGAAGCCA
----TTTAACTCTGTGAG--

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

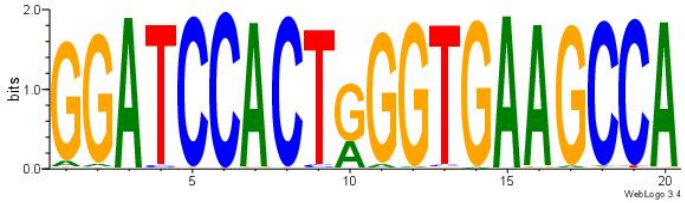

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

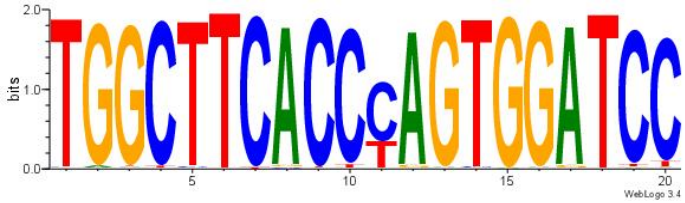

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0999148

Alignment:

```
GTTAACTGTAAAACAGCCT
-----TTTAACTCTGTGAG
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

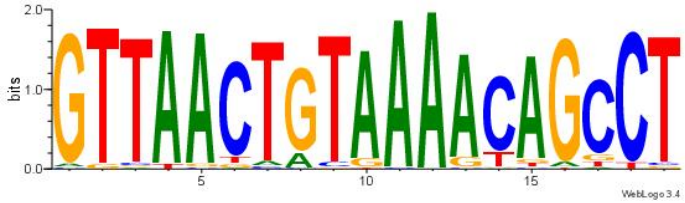

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

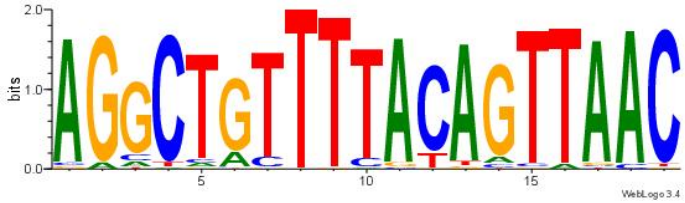

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.100793

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
------TTTAACTCTGTGAG
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

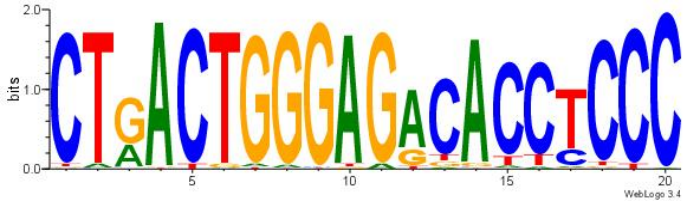

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

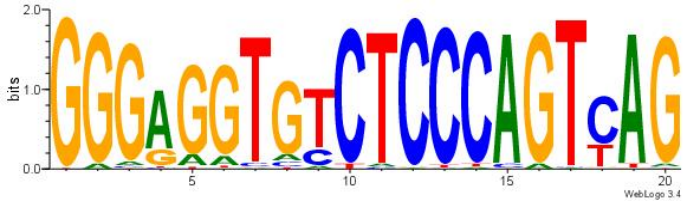

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.101227

Alignment:
TYTGTCMTTTTGTGACTGGC
--TTTAACTCTGTGAG----

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

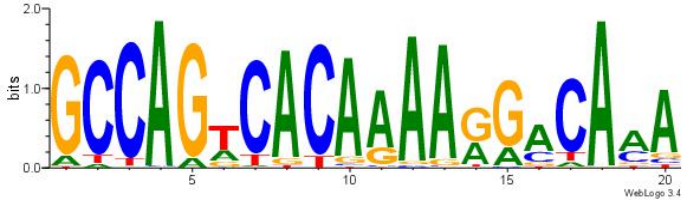

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

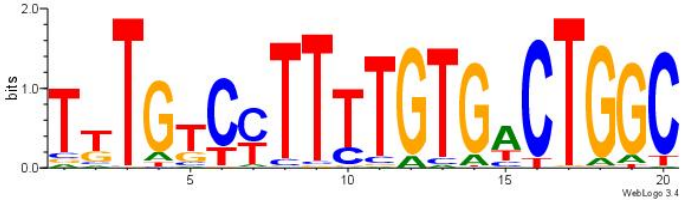

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.101669

Alignment:
TAGTGGTGATTTSTGAGAT
---TTTAACTCTGTGAG--

Original motif Consensus sequence: ATCTCASAAATCACCACTA

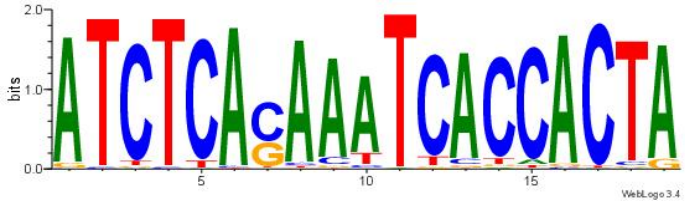

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

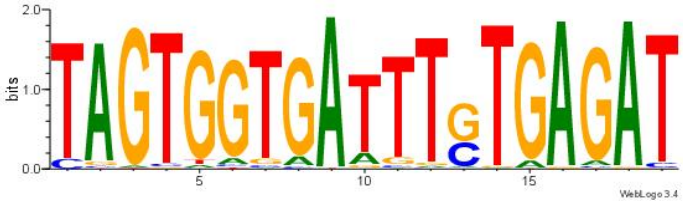

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.102663

Alignment:

```
CCACCACAGCTCAAGGAGGC
CTCACAGAGTTAAA------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

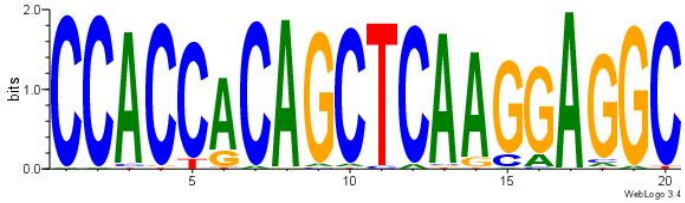

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

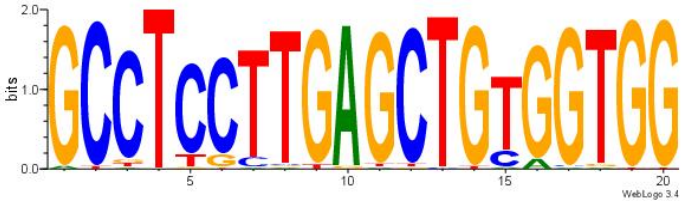

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.102759

Alignment:

```
GTTGTGAGGATTAAATGAG
----CTCACAGAGTTAAA-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

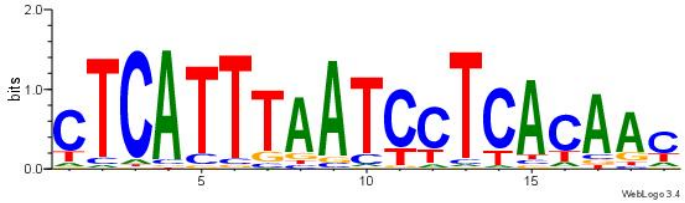

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

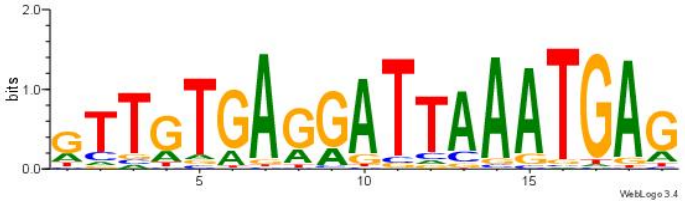

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.102852

Alignment:
TAATAAGGGTGTGGG
-TTTAACTCTGTGAG

Original motif Consensus sequence: CCCACACCCTTATTA

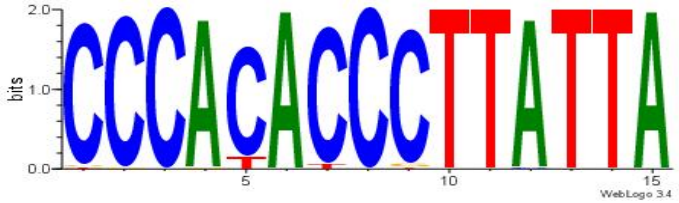

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

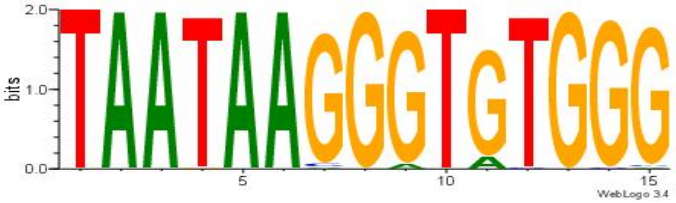

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.103476

Alignment:
GAAAGGGAACTCCCTGACCC
--TTTAACTCTGTGAG----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

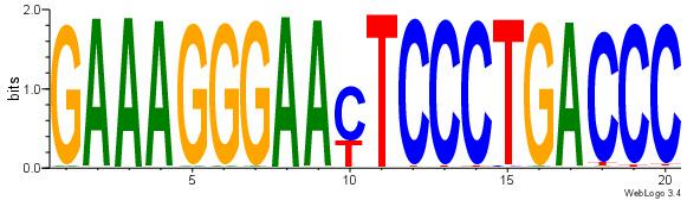

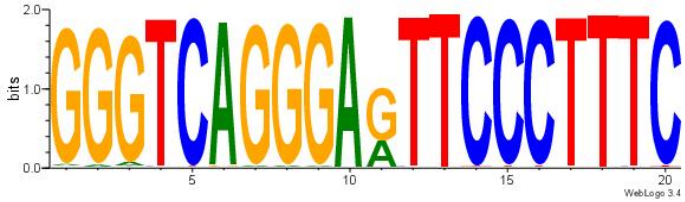

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.10478

Alignment:

```
GTACCTCAGWTGGAAATG
--CTCACAGAGTTAAA--
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

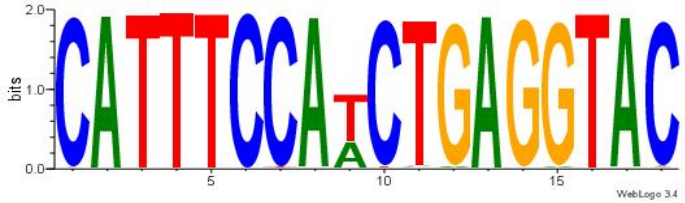

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

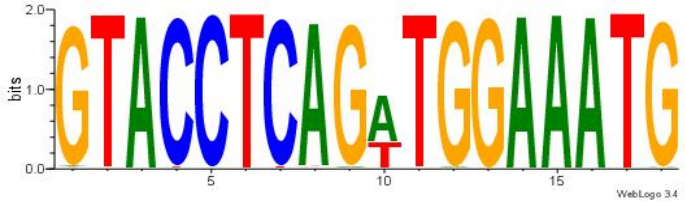

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.108523

Alignment:

```
ATTGATMKCCAGGGTTGATT
-CTCACAGAGTTAAA-----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

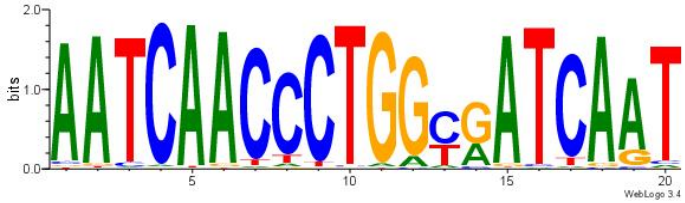

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

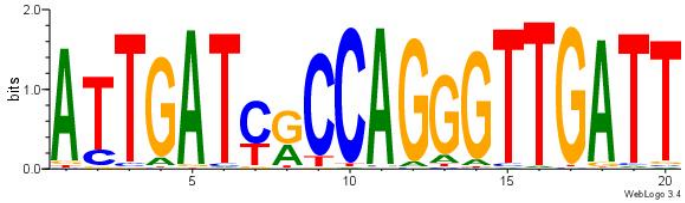

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.108668

Alignment:
ATTCAASATGAGATTTGGG
TTTAACTCTGTGAG-----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

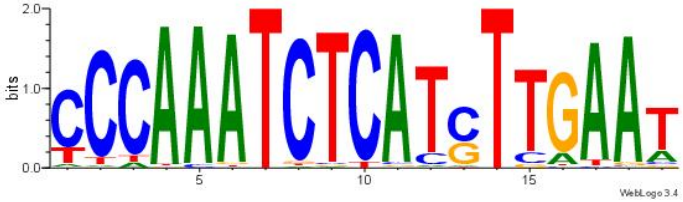

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

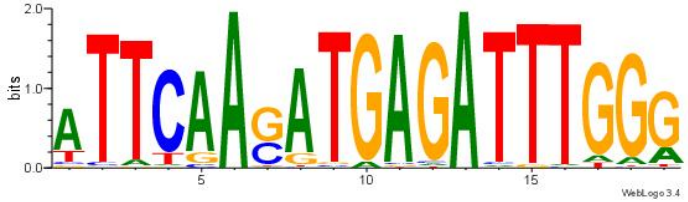

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.110086

Alignment:
ACACACAYACACACACACA
-CTCACAGAGTTAAA----

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

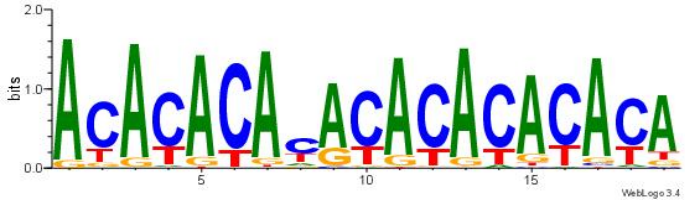

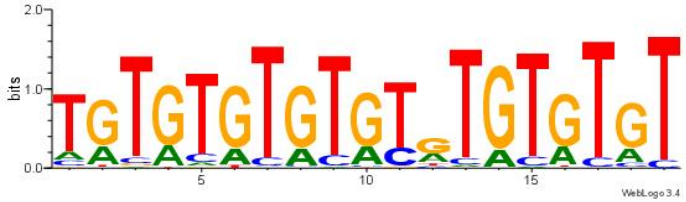

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.111846

Alignment:

```
GAAACTGCTTTGTGATGTGT
--TTTAACTCTGTGAG----
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

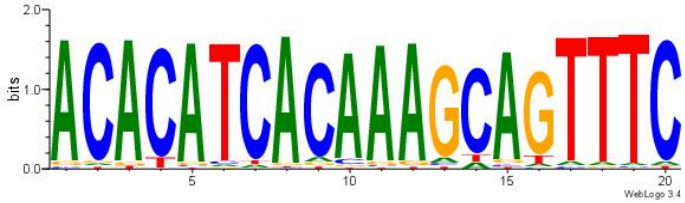

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

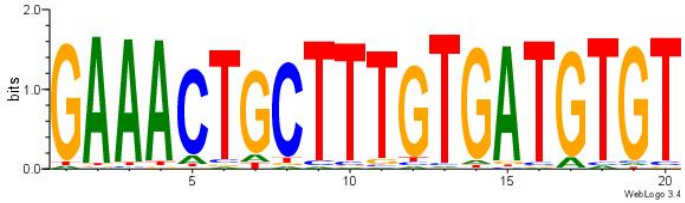

Dataset #: 1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.111872

Alignment:

```
GATCACGAGGTCAGGAG
-CTCACAGAGTTAAA--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

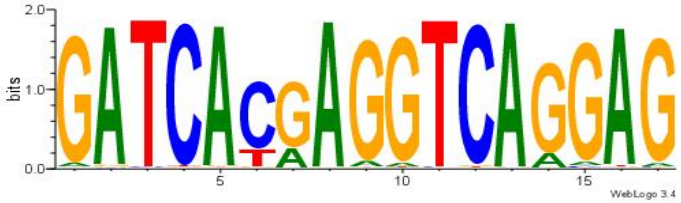

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

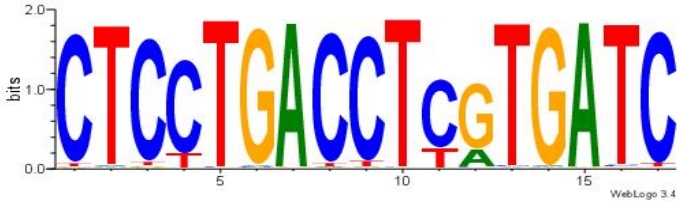

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.112398

Alignment:
ACCKTCGCGGTGAGTGTTAC
TTTAACTCTGTGAG------

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

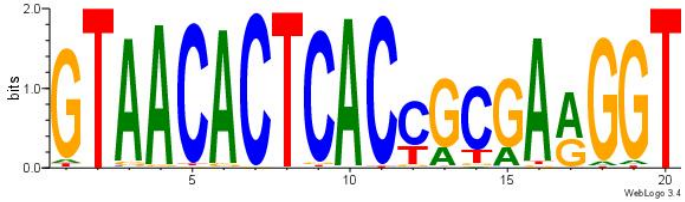

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

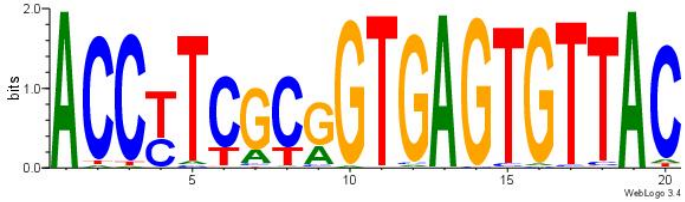

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.112678

Alignment:
CTGTTTGCCTGGGTATCA
---TTTAACTCTGTGAG-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

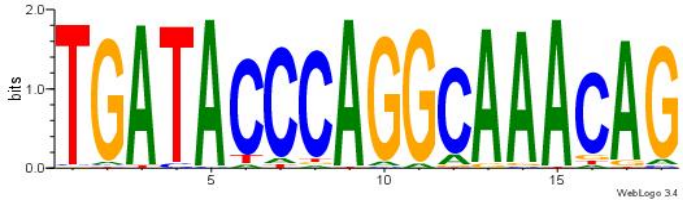

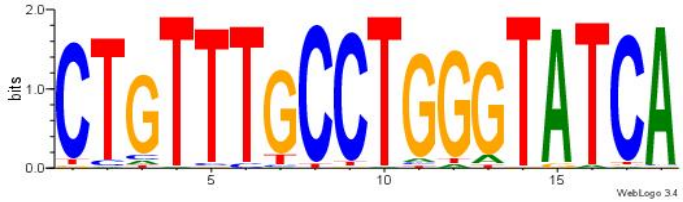

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.112886

Alignment:

```
ACTTTGGACTGTGGACTTTT
---TTTAACTCTGTGAG---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

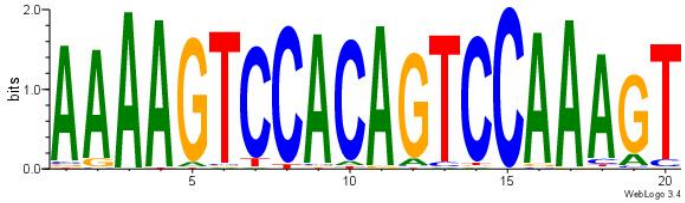

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

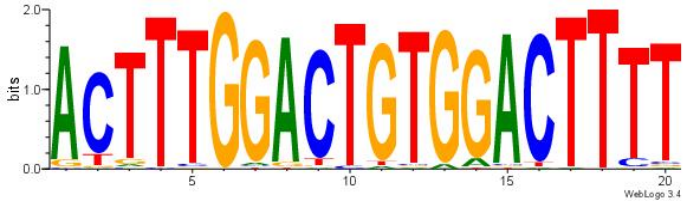

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.113399

Alignment:

```
TCCAAATGGGAGAAATTGGC
-CTCACAGAGTTAAA-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

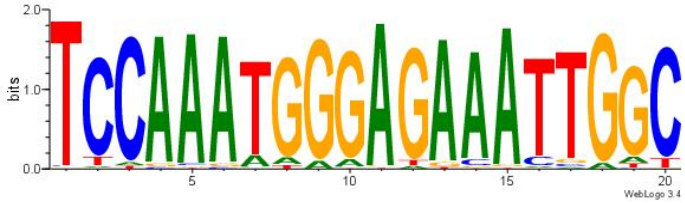

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

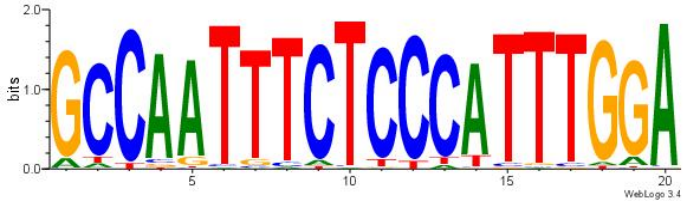

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.113902

Alignment:
CCCATGCAAGTCYRAAATCC
----TTTAACTCTGTGAG--

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

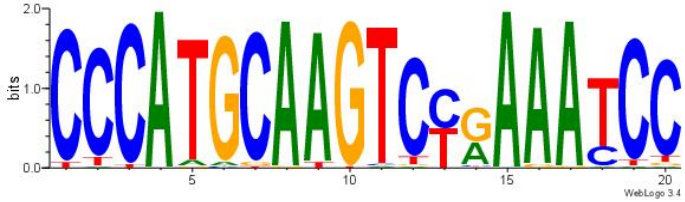

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

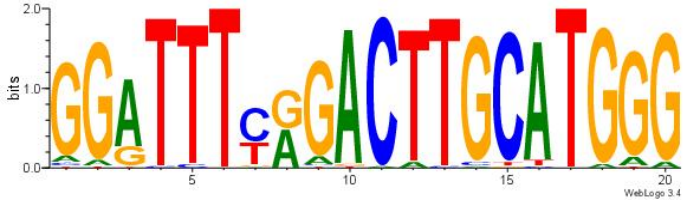

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.114301

Alignment:
GAATACCTCCTGAAGGACCT
-TTTAACTCTGTGAG-----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

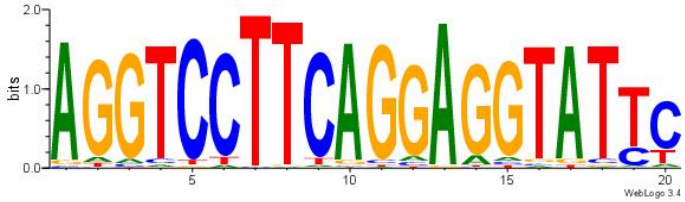

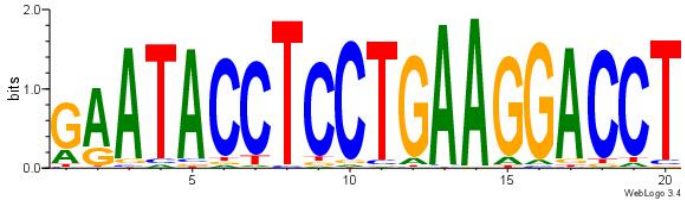

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.115362

Alignment:

```
TTTTATAGGATTTGGG
--TTTAACTCTGTGAG
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

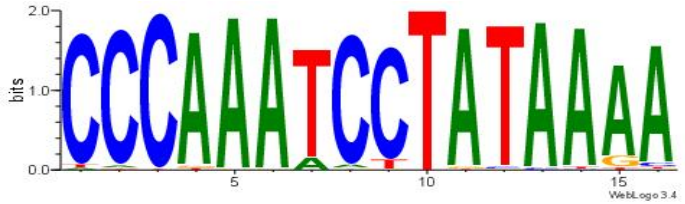

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

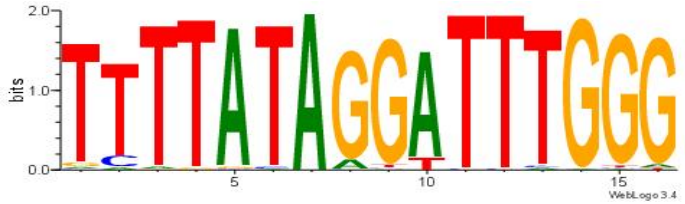

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.115375

Alignment:

```
GATACAAAATCAATGTR
CTCACAGAGTTAAA---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

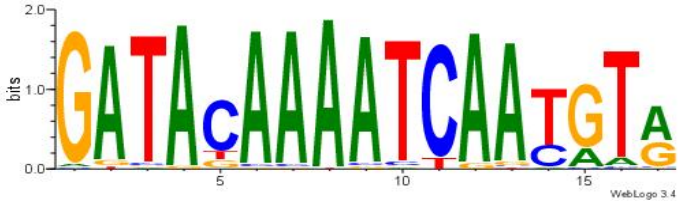

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

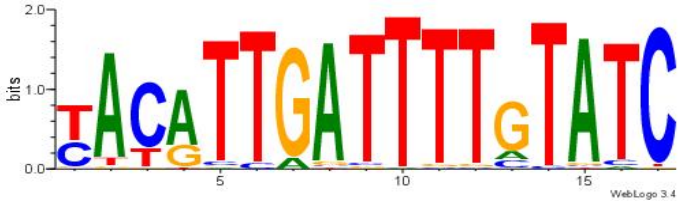

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.115381

Alignment:
AATTAAAAGACACAGACTG
--CTCACAGAGTTAAA---

Original motif Consensus sequence: AATTAAAAGACACAGACTG

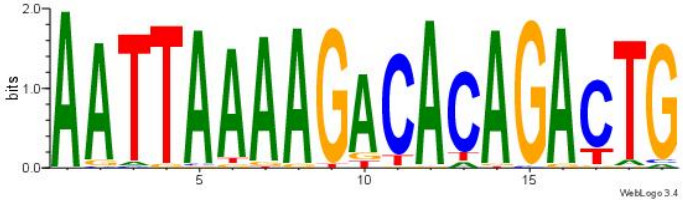

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

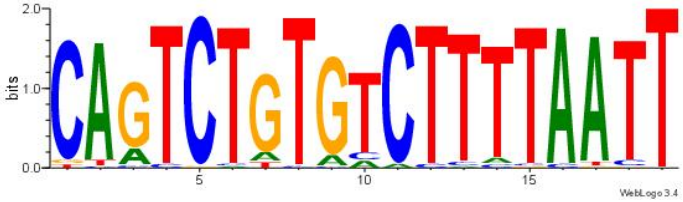

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.115511

Alignment:
GGCATCACGGATCCTACCAA
---CTCACAGAGTTAAA---

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

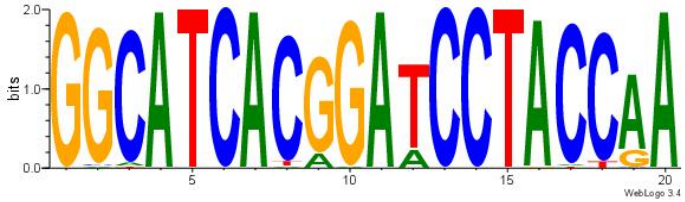

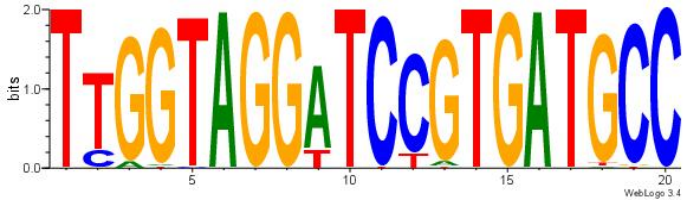

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.115729

Alignment:

```
ATCCAGTCTATCATTG
--TTTAACTCTGTGAG
```

Original motif Consensus sequence: ATCCAGTCTATCATTG

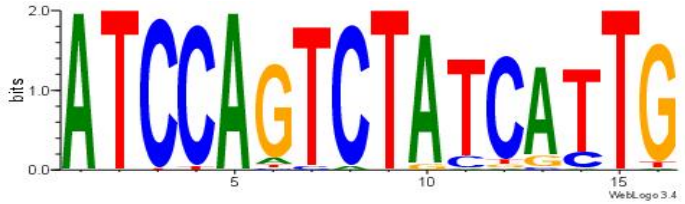

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

Dataset #:	1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.115876

Alignment:

```
ACAGGCTTTGTGTGAGCA
--TTTAACTCTGTGAG--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

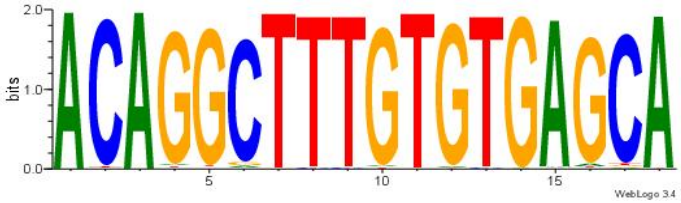

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

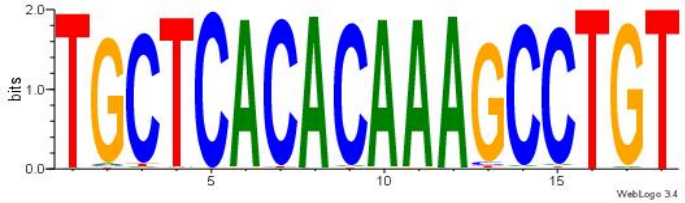

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.115998

Alignment:
MTACACTGTTGGTGG
TTTAACTCTGTGAG-

Original motif Consensus sequence: CCACCAACAGTGTAY

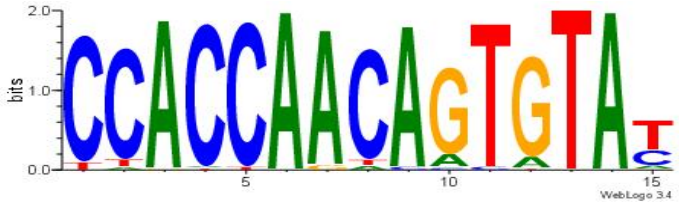

Reverse complement motif Consensus sequence: MTACACTGTTGGT

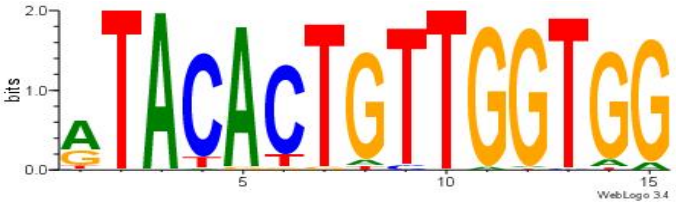

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.116014

Alignment:
ARCTCCTGKSCTCAAGKGAT
----CTCACAGAGTTAAA--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

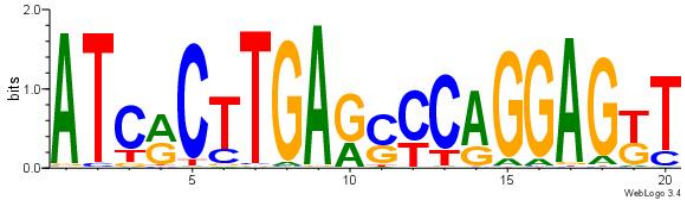

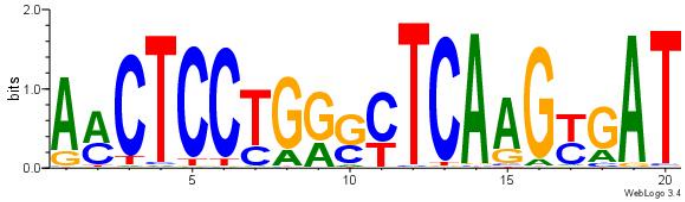

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.116753

Alignment:

```
AAAGTGCCGAGAKTGCAGC
----CTCACAGAGTTAAA-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

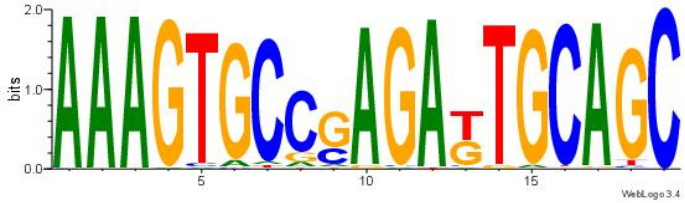

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

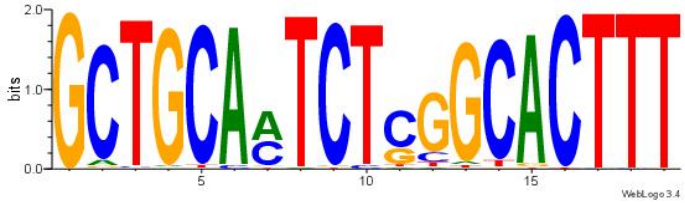

Dataset #:	1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.116894

Alignment:

```
AATGACCAATTGAGAGC
TTTAACTCTGTGAG---
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

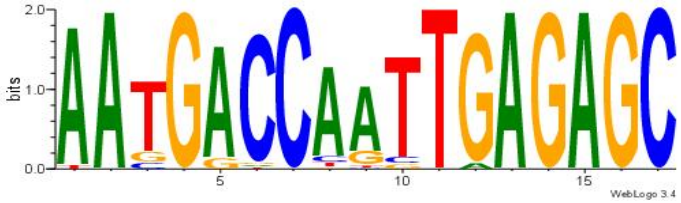

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

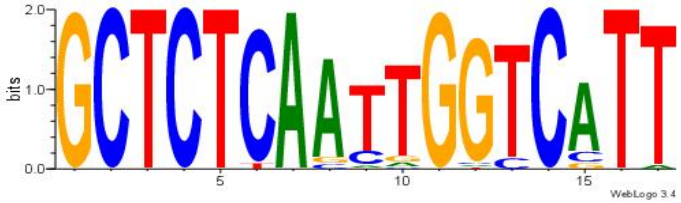

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.116978

Alignment:
CACTTTCCAGACTGGGCA
----TTTAACTCTGTGAG

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

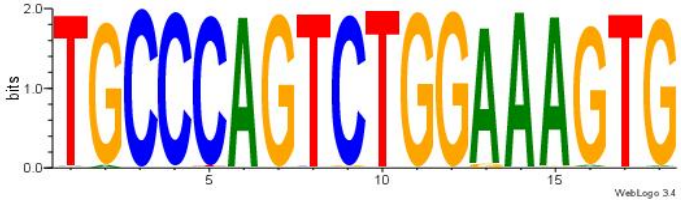

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

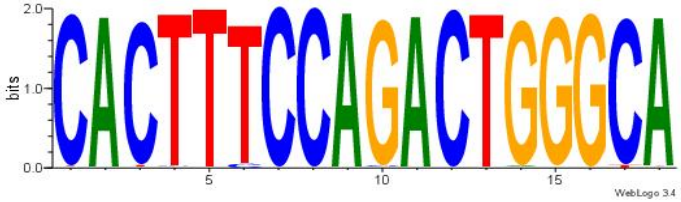

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.11807

Alignment:
TCTCTCTCTCTCTCTCTCTC
----TTTAACTCTGTGAG--

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

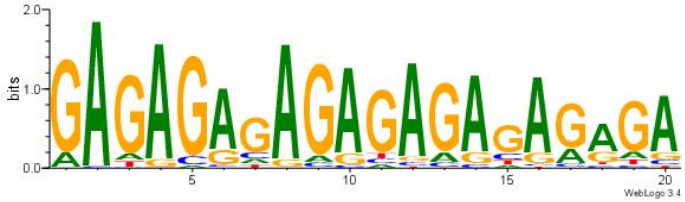

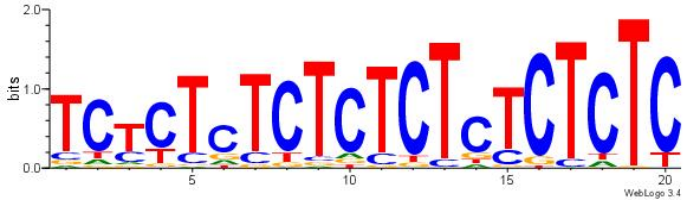

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.11915

Alignment:

```
MGGGATATAATCTCCTGGTG
------TTTAACTCTGTGAG
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

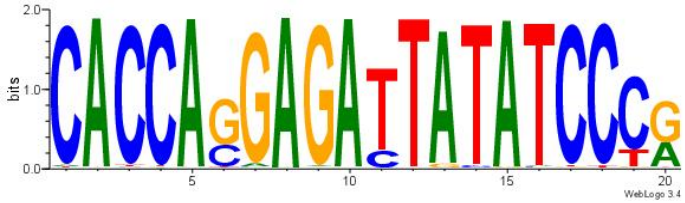

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

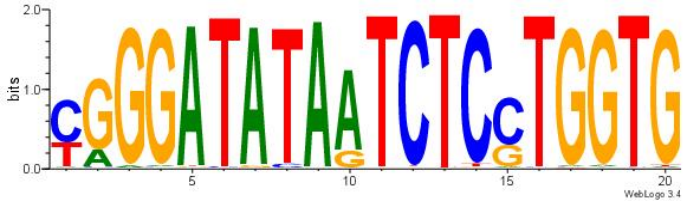

Dataset #: 1 Motif ID: 276 Motif name: Motif 276

Original motif Consensus sequence: TGGCCTGTTAGGAA

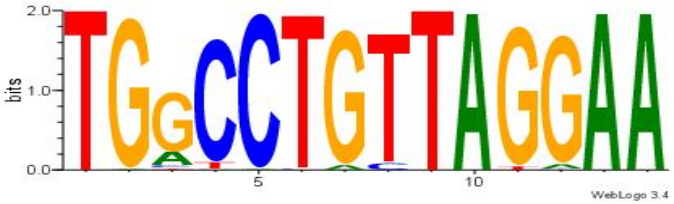

Reverse complement motif Consensus sequence: TTCCTAACAGGCCA

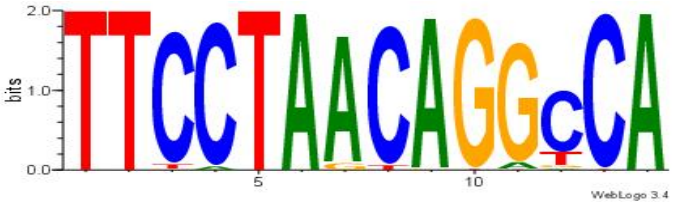

Best Matches for Motif ID 276 (Highest to Lowest)

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0718165

Alignment:

```
TGCCCAGTCTGGAAAGTG
TGGCCTGTTAGGAA----
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

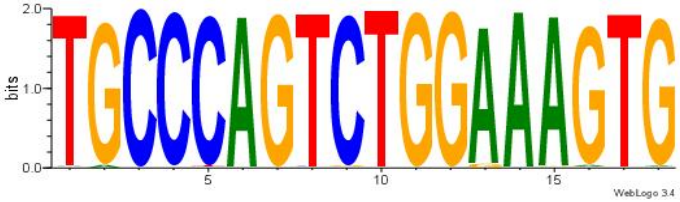

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

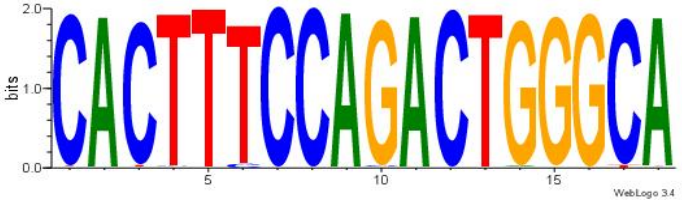

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0893293

Alignment:

```
AAATTAGGCCAATTAATAAC
-----TGGCCTGTTAGGAA-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

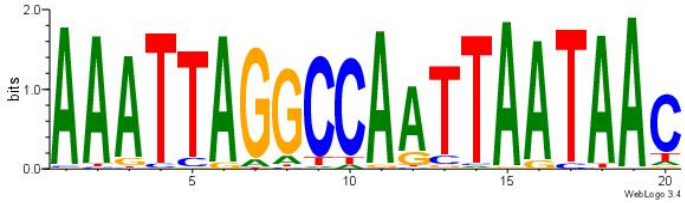

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.099366

Alignment:
AATGACCAATTGAGAGC
--TGGCCTGTTAGGAA-

Original motif Consensus sequence: AATGACCAATTGAGAGC

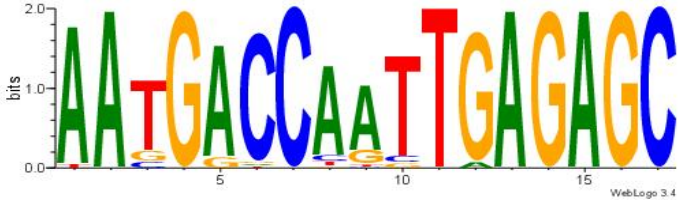

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

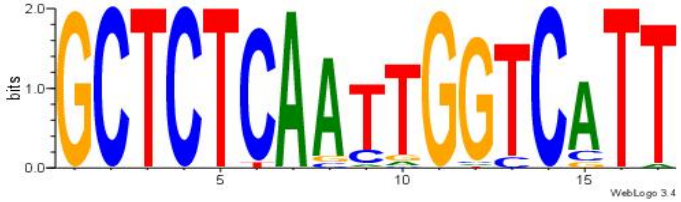

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.100366

Alignment:
CCTTGGCCAGCCCAGAAAG
---TGGCCTGTTAGGAA--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

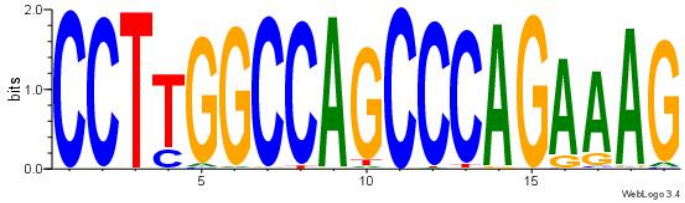

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

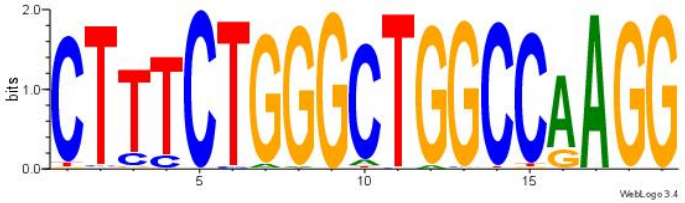

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.101376

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
--TGGCCTGTTAGGAA----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

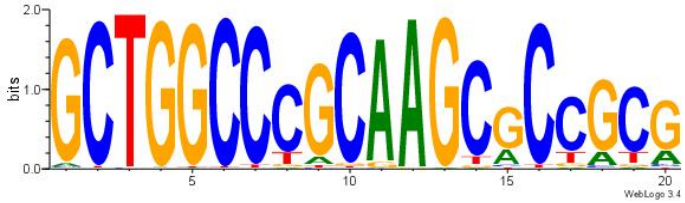

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

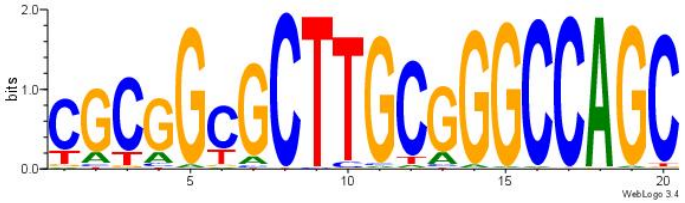

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.101894

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-----TTCCTAACAGGCCA-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

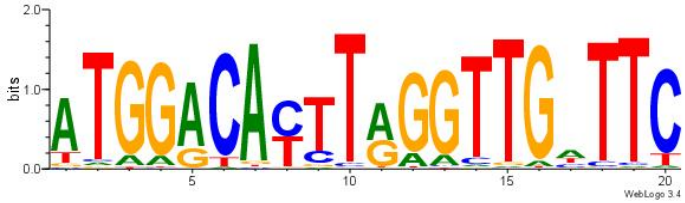

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

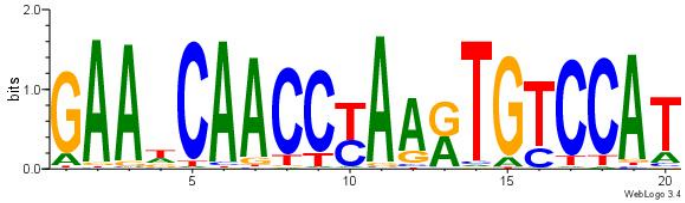

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.104558

Alignment:
ATGGCCTATGACYGSTTTG
-TGGCCTGTTAGGAA----

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

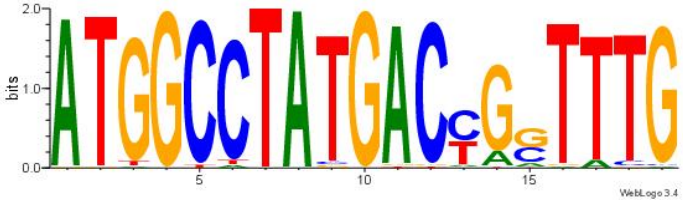

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

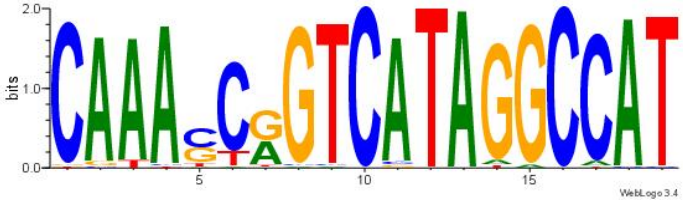

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.104731

Alignment:
TYTGTCMTTTTGTGACTGGC
----TGGCCTGTTAGGAA--

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

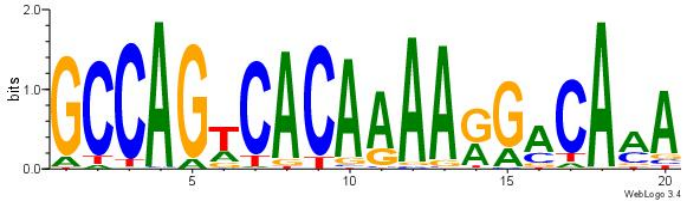

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

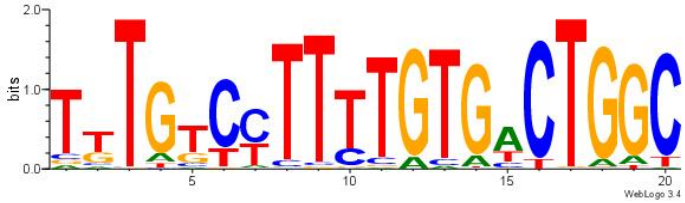

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.10604

Alignment:

```
AACCCTATTGTGAACTGYG
TGGCCTGTTAGGAA-----
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

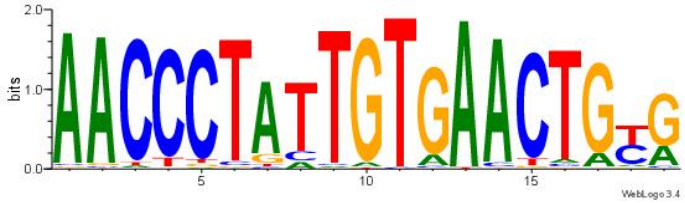

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

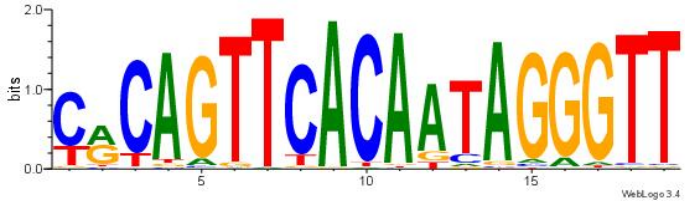

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.106894

Alignment:

```
AGGTCCTTCAGGAGGTATTC
TGGCCTGTTAGGAA------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

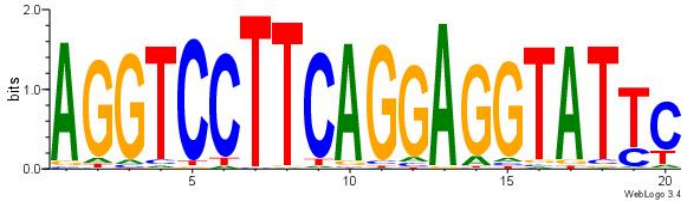

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

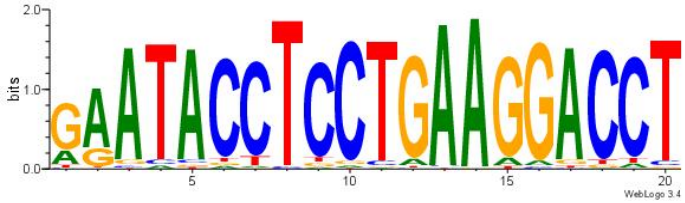

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.107832

Alignment:
TTMGTCCCAGAGGGGCACC
---TTCCTAACAGGCCA--

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

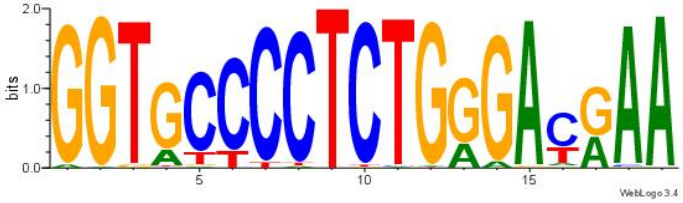

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

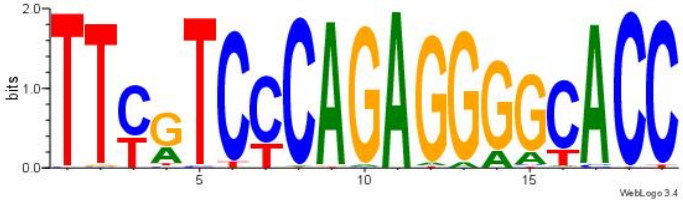

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.10884

Alignment:
AGACAGTGGGYGCAGGHCA
TTCCTAACAGGCCA-----

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

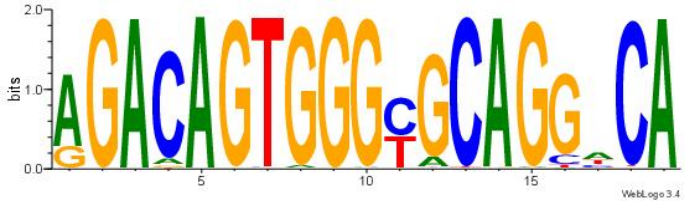

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

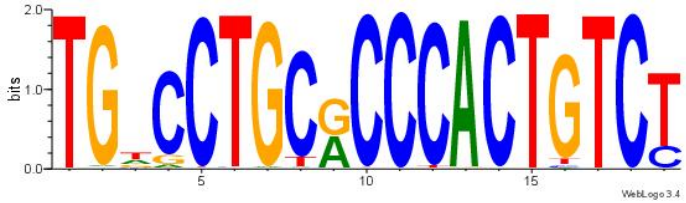

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.109296

Alignment:

```
AGGTTTGTTACATAGGTAWA
TGGCCTGTTAGGAA------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

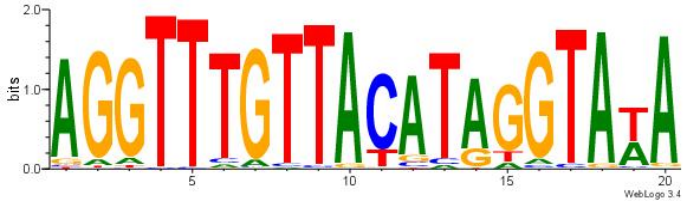

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

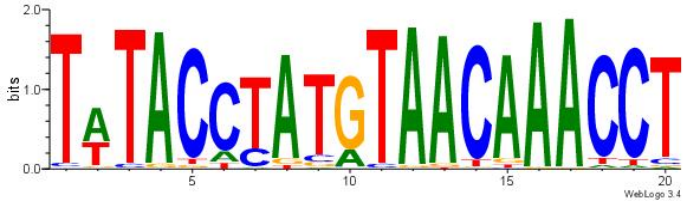

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.109368

Alignment:

```
CATCTGGCAGCCCA
TTCCTAACAGGCCA
```

Original motif Consensus sequence: CATCTGGCAGCCCA

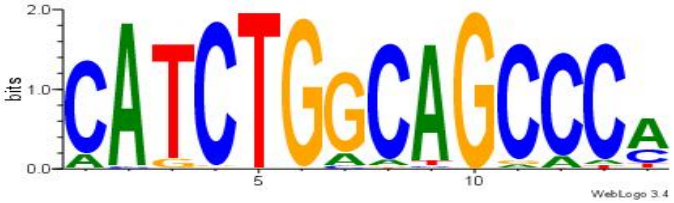

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

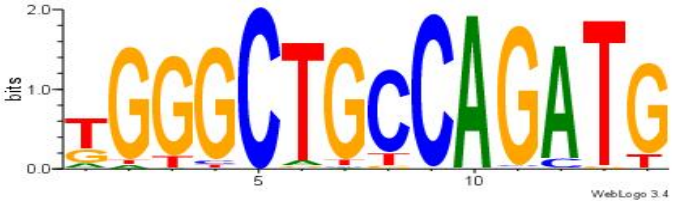

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.111236

Alignment:
GTACCTCAGWTGGAAATG
-TTCCTAACAGGCCA---

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

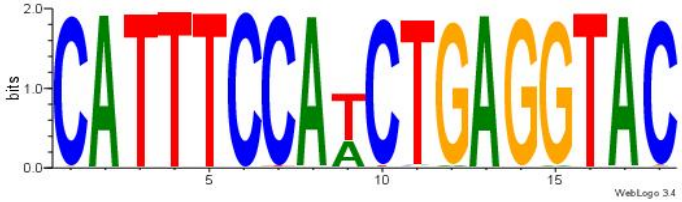

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

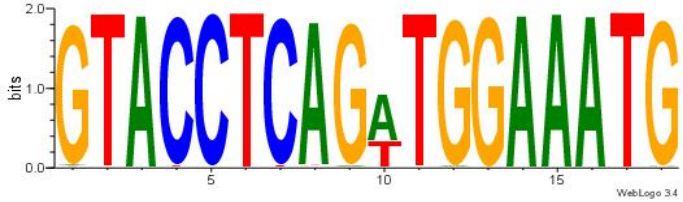

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.11126

Alignment:
AGACCAGCCTGGCCAAC
--TTCCTAACAGGCCA-

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

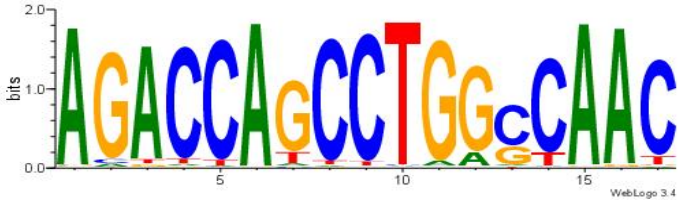

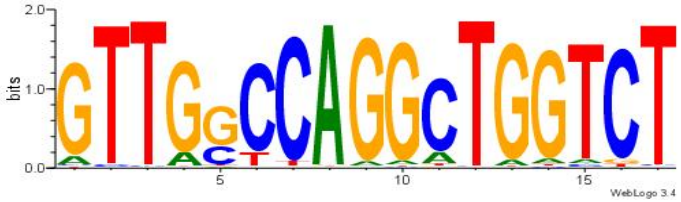

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.111701

Alignment:

```
ATTGGTGTATTTACAATCCC
--TGGCCTGTTAGGAA----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

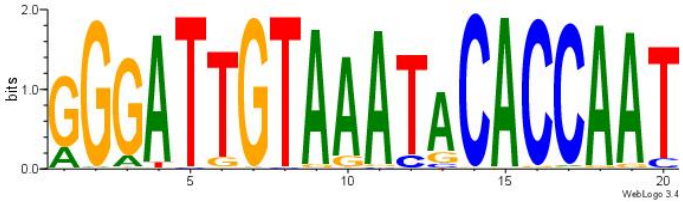

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.112734

Alignment:

```
GCTGGCCCKGGTGCTAAGC
---TGGCCTGTTAGGAA--
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

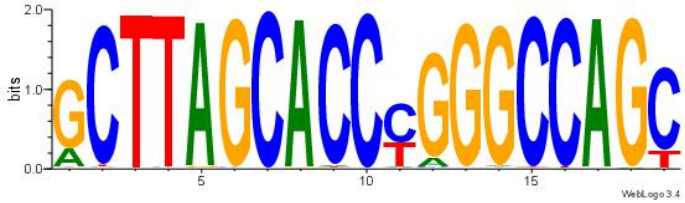

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

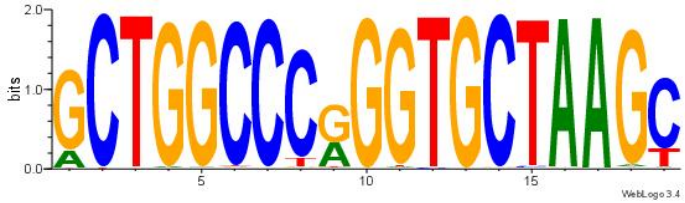

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.115399

Alignment:
ATGGAATAYTATTCAGCCAT
-TGGCCTGTTAGGAA-----

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

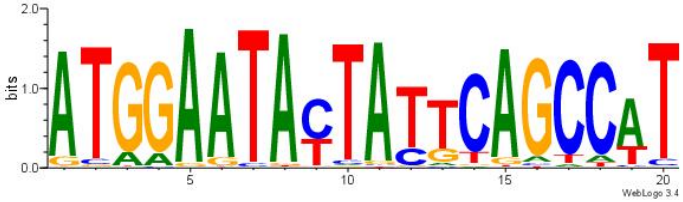

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

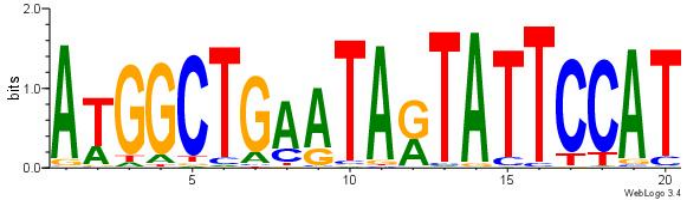

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.116481

Alignment:
GCCKCCCCGTCCGGGAGGGA
----TGGCCTGTTAGGAA--

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

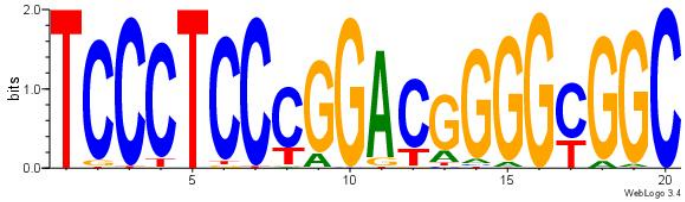

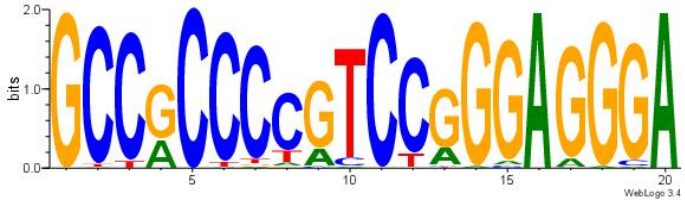

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.117845

Alignment:

```
ACTTTCAGGCATAACA
--TTCCTAACAGGCCA
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

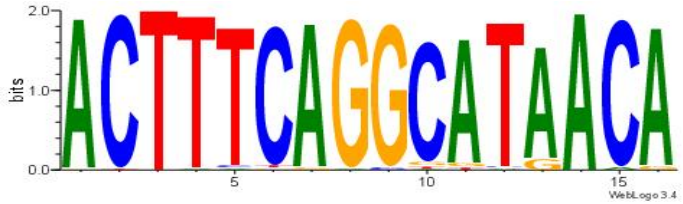

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

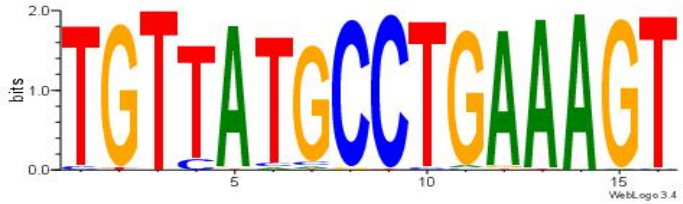

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.117858

Alignment:

```
AAGACCTTCCAGTGGGACAA
-----TTCCTAACAGGCCA-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

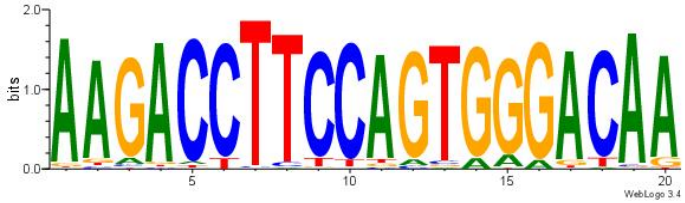

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

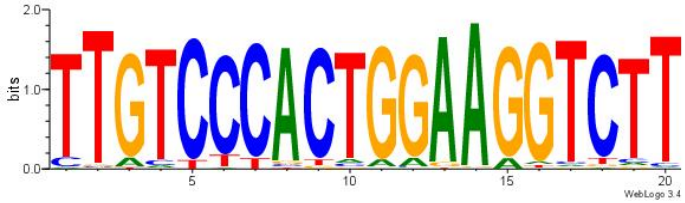

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.117866

Alignment:
CACTTCCCAGACGGGGCG
TTCCTAACAGGCCA----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

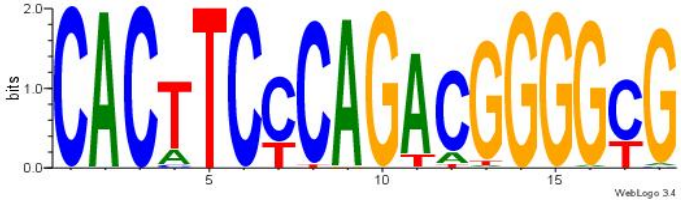

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

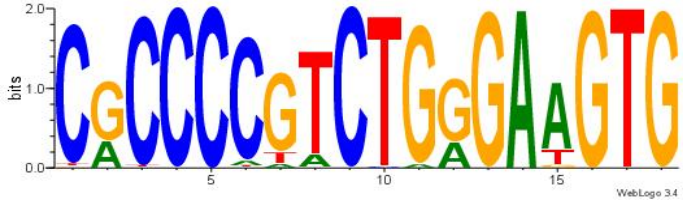

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.117903

Alignment:
GTGGCCCTCTTCTCACAGCT
--TGGCCTGTTAGGAA----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

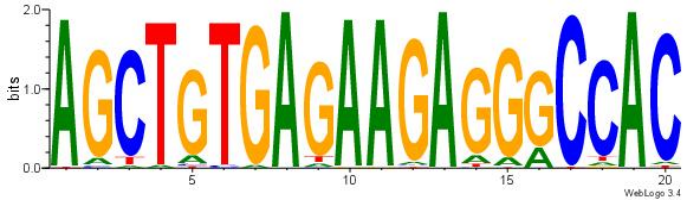

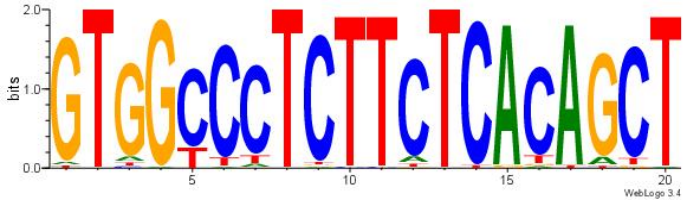

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.118144

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
TTCCTAACAGGCCA------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

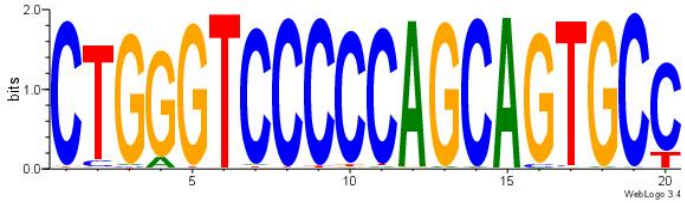

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

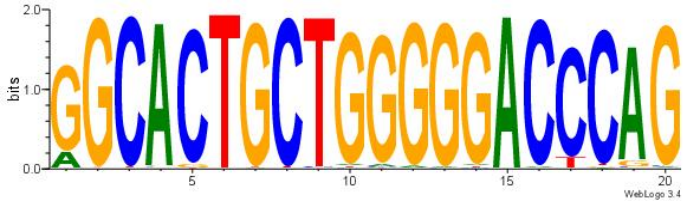

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.11856

Alignment:

```
AAAGCTGGAGCTATTATCTA
------TGGCCTGTTAGGAA
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

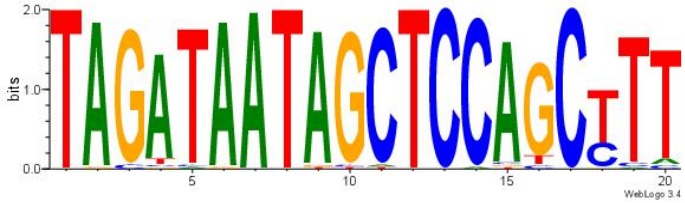

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

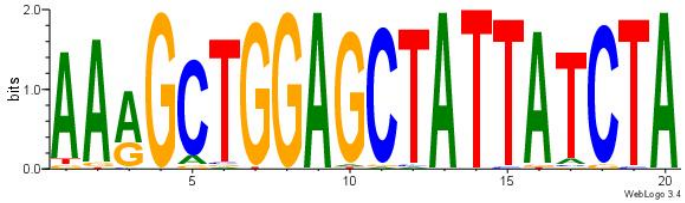

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.118883

Alignment:
MTACACTGTTGGTGG
TGGCCTGTTAGGAA-

Original motif Consensus sequence: CCACCAACAGTGTAY

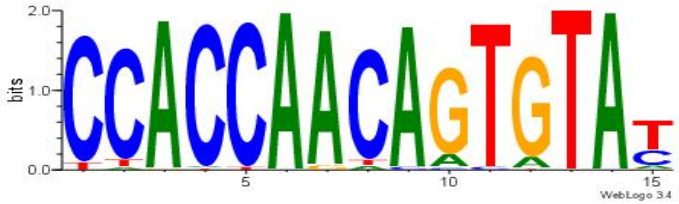

Reverse complement motif Consensus sequence: MTACACTGTTGGT

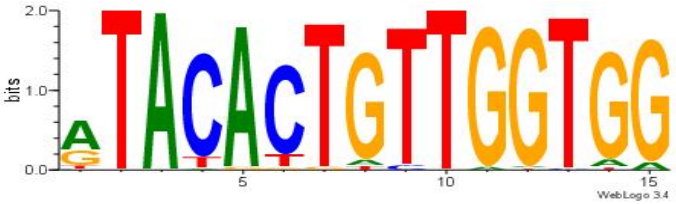

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.12

Alignment:
GTGTGCGAATAGGTGT
--TTCCTAACAGGCCA

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

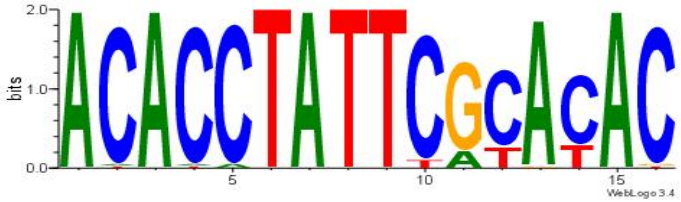

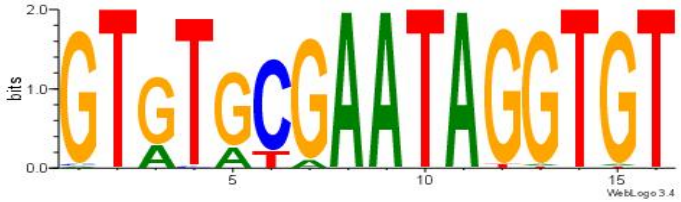

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.120402

Alignment:

```
GGGCTCCCACAGTGCAGCGG
--TTCCTAACAGGCCA----
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

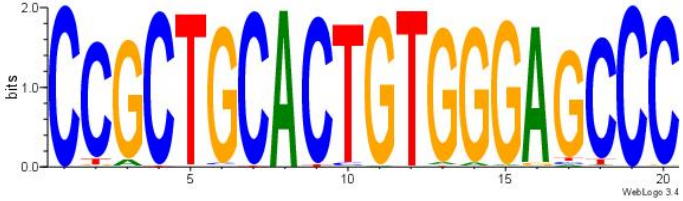

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

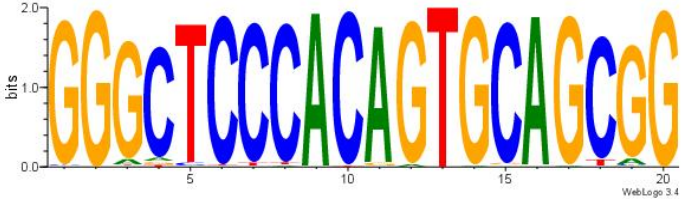

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.121677

Alignment:

```
CTGACTGGGAGACACCTCCC
TGGCCTGTTAGGAA------
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

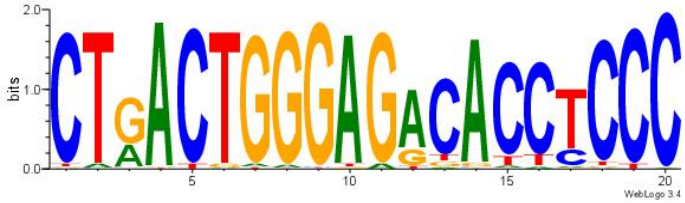

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

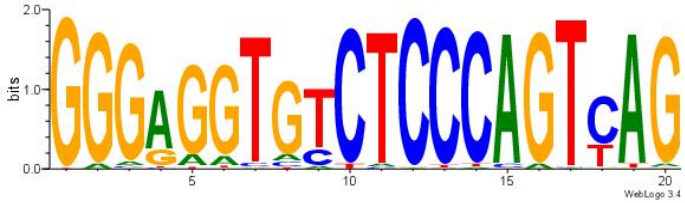

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.121768

Alignment:
AGAGCTCTGGCTGGCATCT
--TGGCCTGTTAGGAA---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

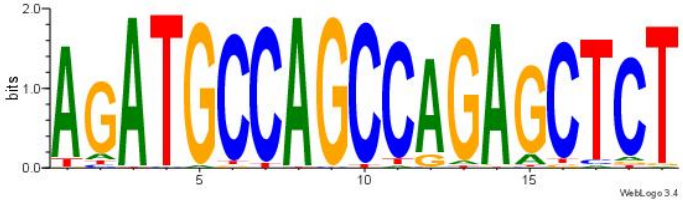

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

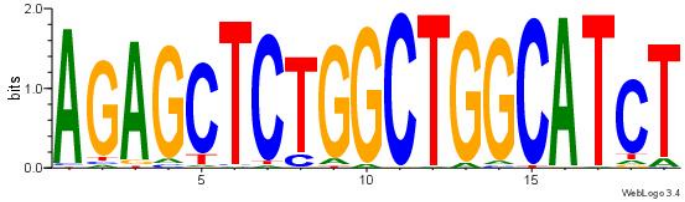

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.121781

Alignment:
GTTTAACCATTGAGGGCCAG
---TGGCCTGTTAGGAA---

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

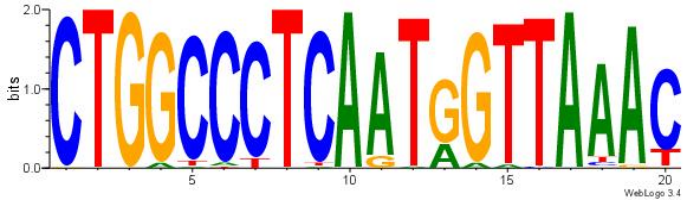

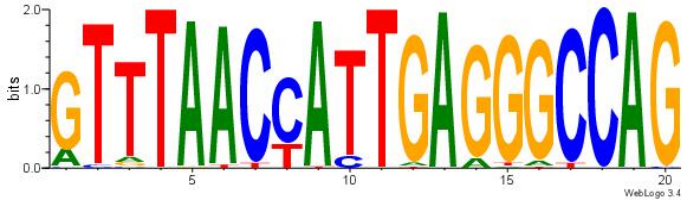

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.121897

Alignment:

```
AGGCTGTTTTACAGTTAAC
----TTCCTAACAGGCCA-
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

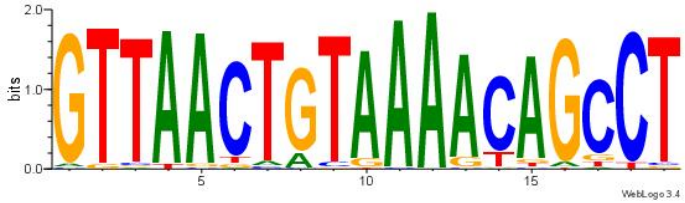

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

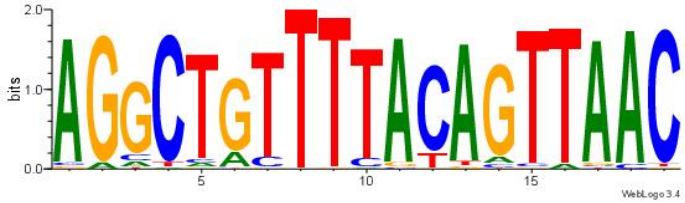

Dataset #: 1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.121957

Alignment:

```
TGATACCCAGGCAAACAG
TTCCTAACAGGCCA----
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

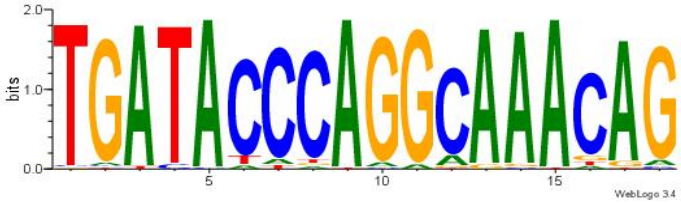

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

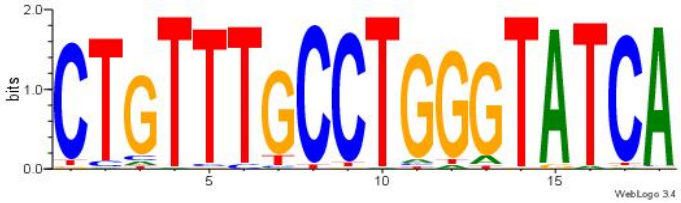

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.122011

Alignment:
CAGGCGGCTGGGAG
TGGCCTGTTAGGAA

Original motif Consensus sequence: CAGGCGGCTGGGAG

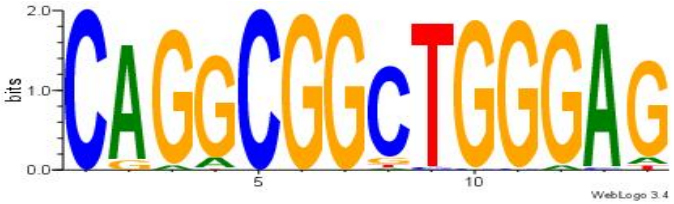

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

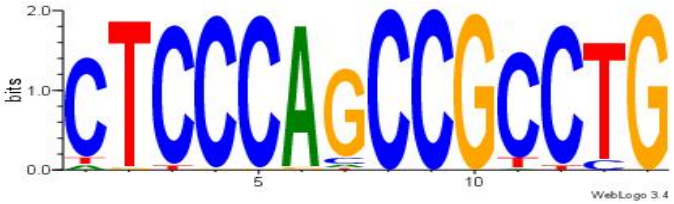

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.123405

Alignment:
AGTTCCGGGTGGGCGTGGG
---TTCCTAACAGGCCA--

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

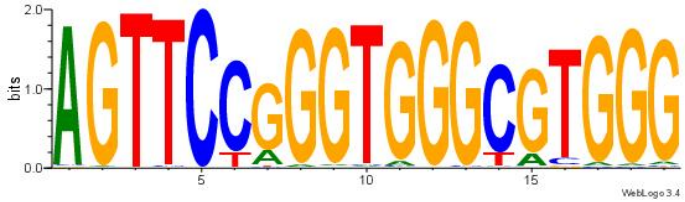

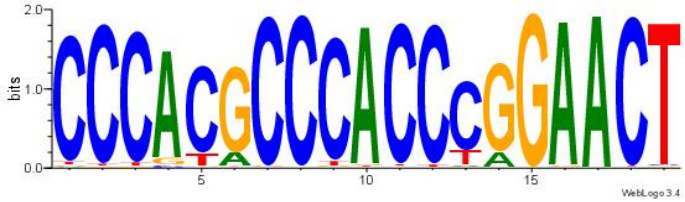

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.123454

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
--TTCCTAACAGGCCA----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

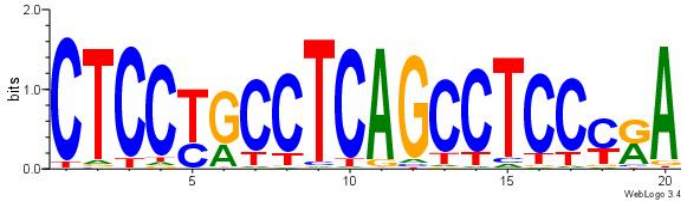

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

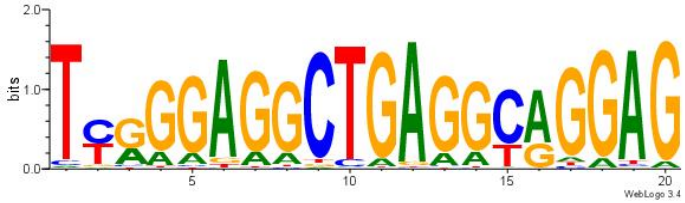

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.123979

Alignment:

```
ACTTTGGACTGTGGACTTTT
--TGGCCTGTTAGGAA----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

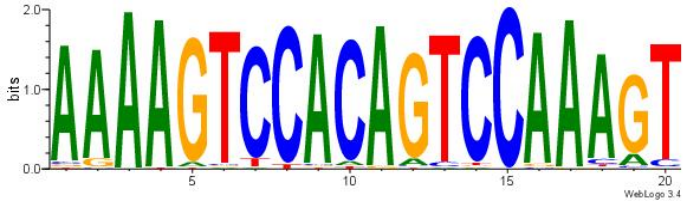

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

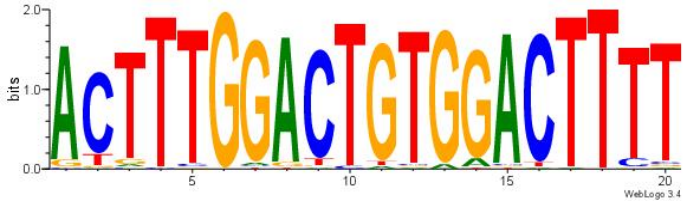

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.12404

Alignment:
GGATTTMKGACTTGCATGGG
---TTCCTAACAGGCCA---

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

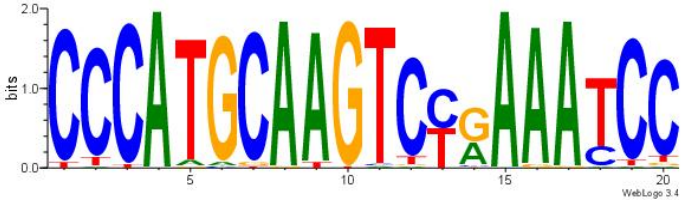

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

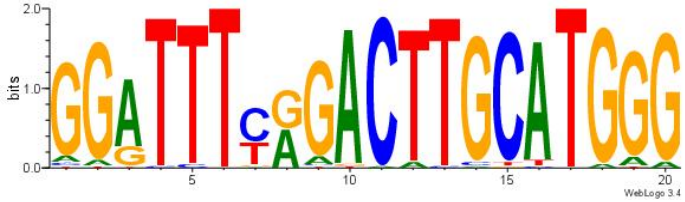

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.124046

Alignment:
KCCGGGCCTTAGCTGCCTTC
----TTCCTAACAGGCCA--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

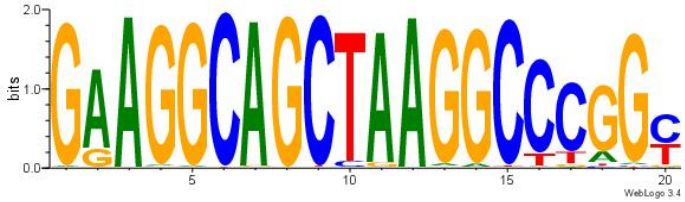

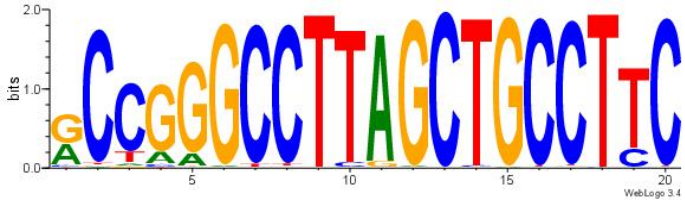

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.124137

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-TGGCCTGTTAGGAA-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

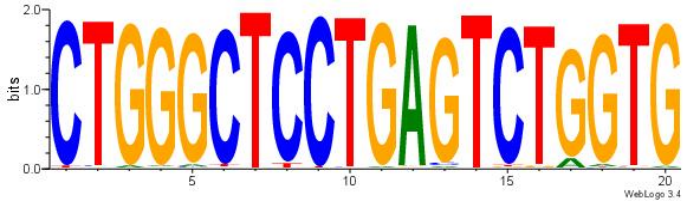

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

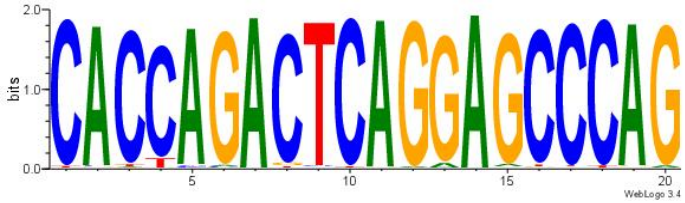

Dataset #: 1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.124144

Alignment:

```
TGCTCACACAAAGCCTGT
--TTCCTAACAGGCCA--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

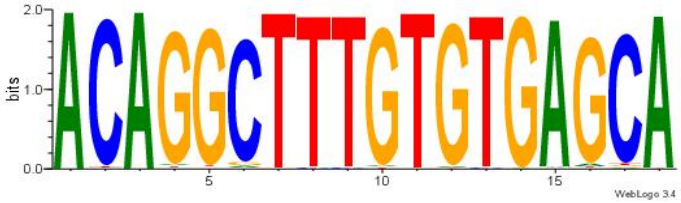

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

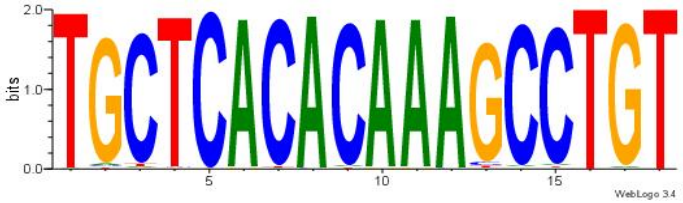

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.124431

Alignment:
AAGCTCGAACTGGGTGGAGC
-----TGGCCTGTTAGGAA-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

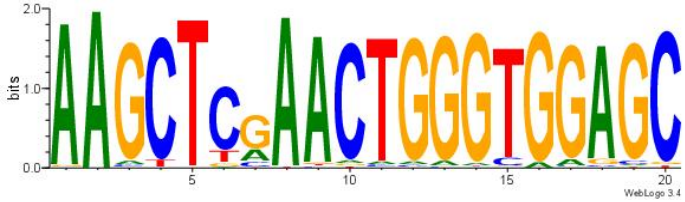

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

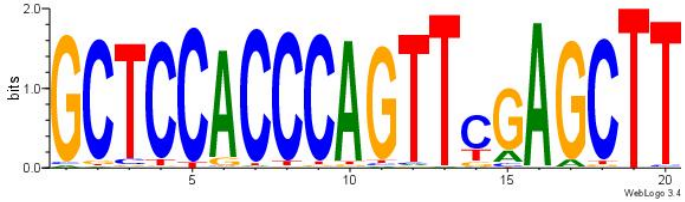

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.124664

Alignment:
ACACATCACAAAGCAGTTTC
-----TTCCTAACAGGCCA-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

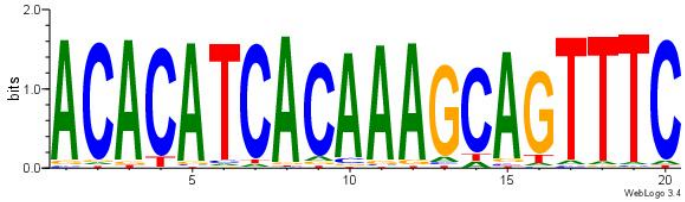

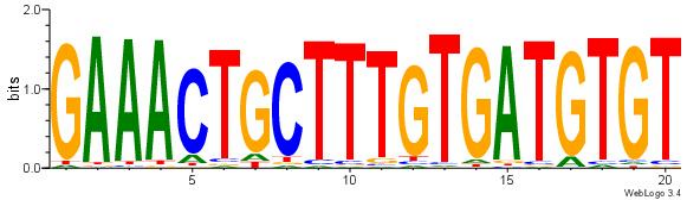

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.124786

Alignment:

```
TAGTGGTGATTTSTGAGAT
--TGGCCTGTTAGGAA---
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

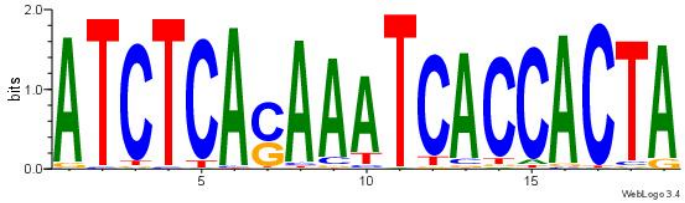

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

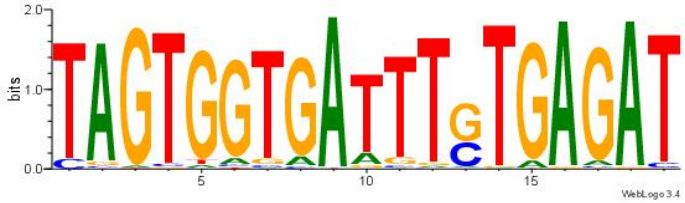

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.124806

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
----TGGCCTGTTAGGAA--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

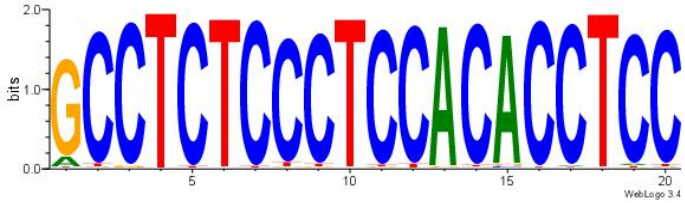

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

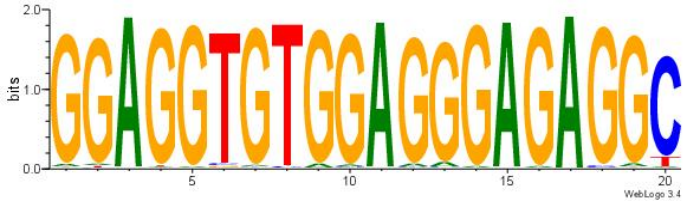

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.125211

Alignment:
CATTCTGGGGTCTGGAGGAY
-----TGGCCTGTTAGGAA-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

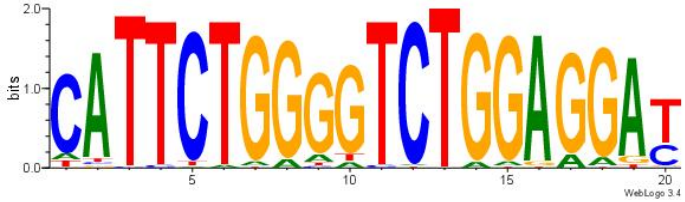

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

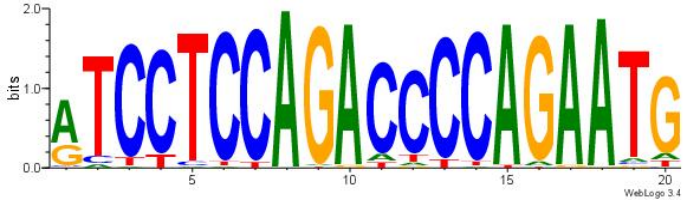

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.126279

Alignment:
CACCTCCCAGACMGGGT
TTCCTAACAGGCCA---

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

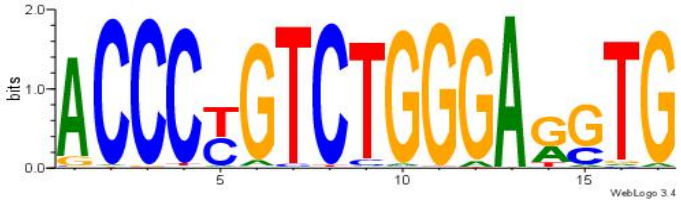

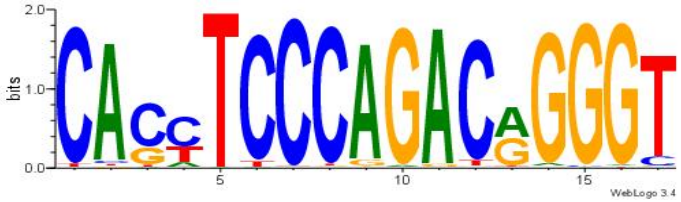

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.126892

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
------TGGCCTGTTAGGAA
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

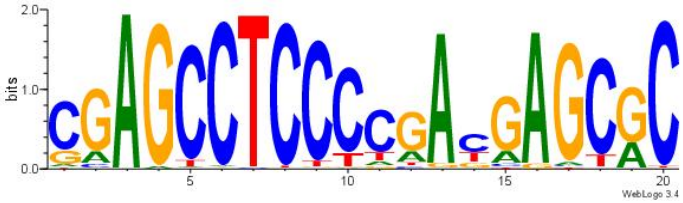

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

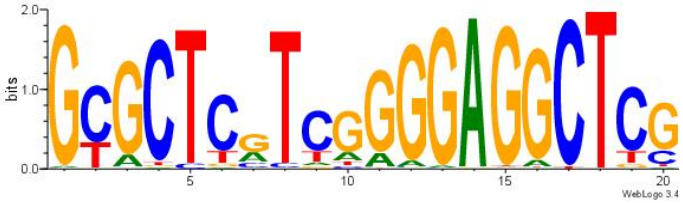

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.127285

Alignment:

```
AATCAACCCTGGYRATCAAT
-----TTCCTAACAGGCCA-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

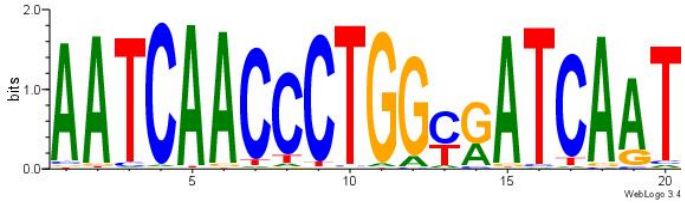

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

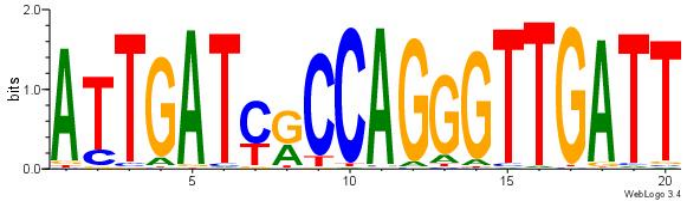

Dataset #: 1 Motif ID: 277 Motif name: Motif 277

Original motif Consensus sequence: GCCCTCACCAGAAGC

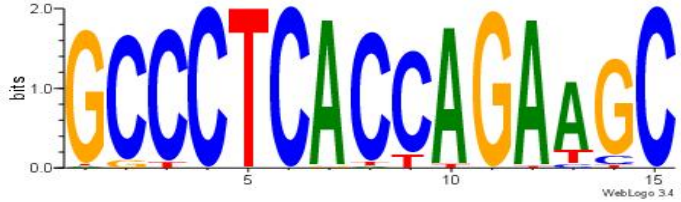

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

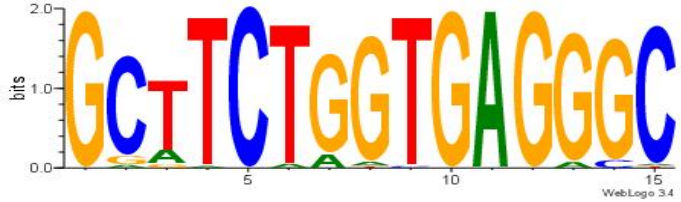

Best Matches for Motif ID 277 (Highest to Lowest)

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0937412

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---GCTTCTGGTGAGGGC--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

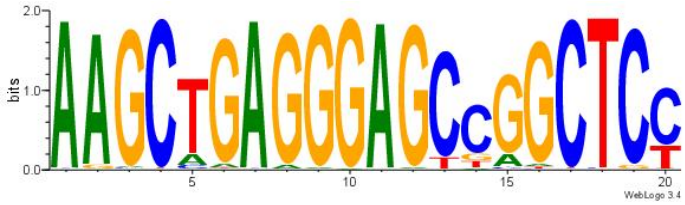

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

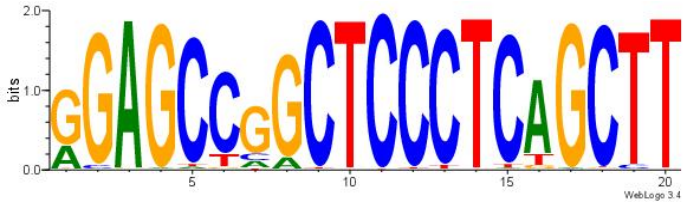

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.094292

Alignment:
GGCACTGCTGGGGGACCCAG
GCTTCTGGTGAGGGC-----

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

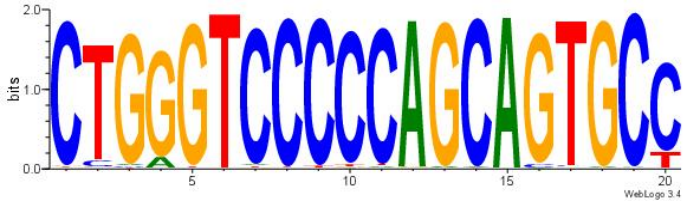

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

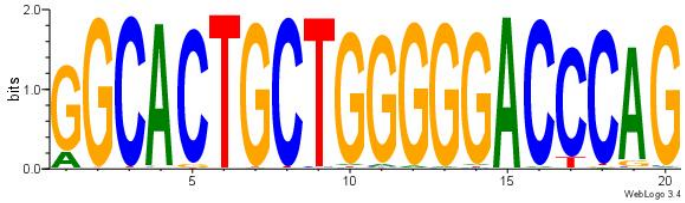

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0943045

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCCCTCACCAGAAGC----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

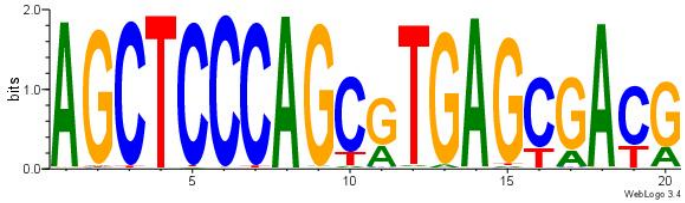

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

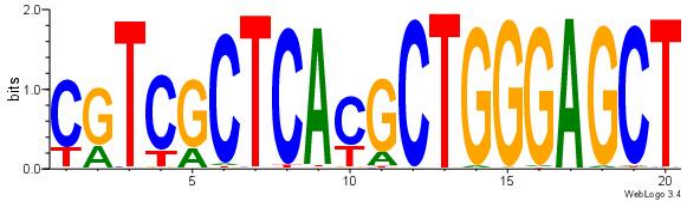

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0957474

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
---GCCCTCACCAGAAGC--
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

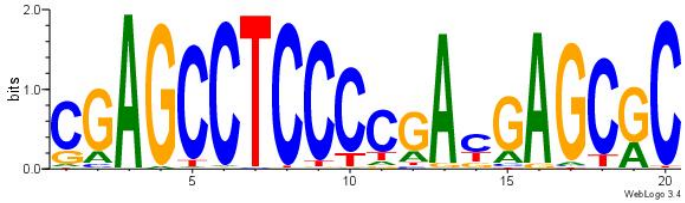

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

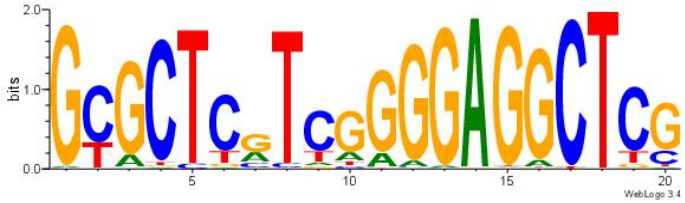

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0961872

Alignment:

```
CTTTCTGGGCTGGCCAAGG
GCTTCTGGTGAGGGC----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

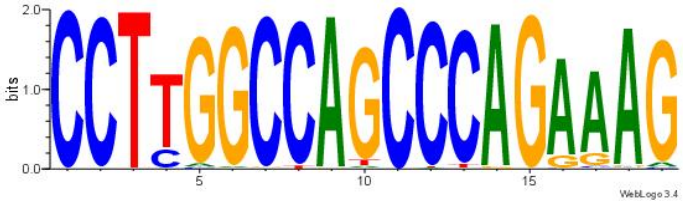

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

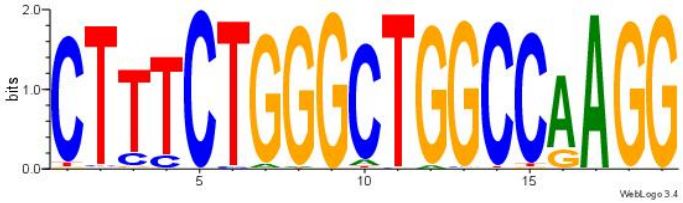

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.0966143

Alignment:
AGTTCCGGGTGGGCGTGGG
---GCTTCTGGTGAGGGC-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

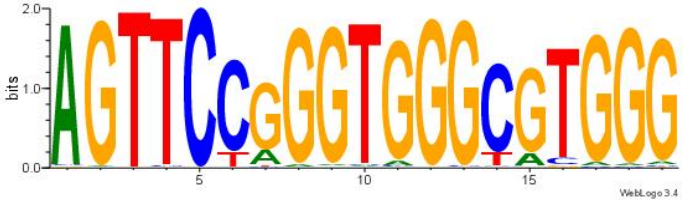

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

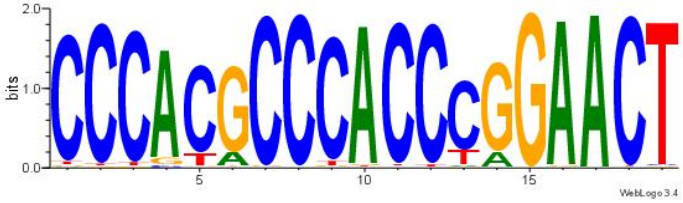

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.0978057

Alignment:
GCCKCCCCGTCCGGGAGGGA
--GCCCTCACCAGAAGC---

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

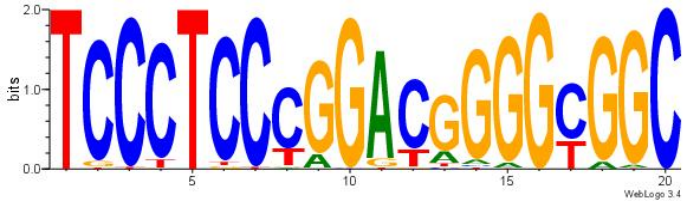

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

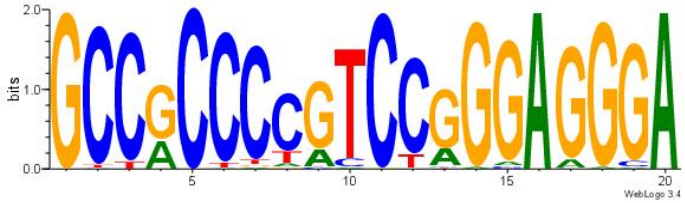

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0991621

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-GCTTCTGGTGAGGGC----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

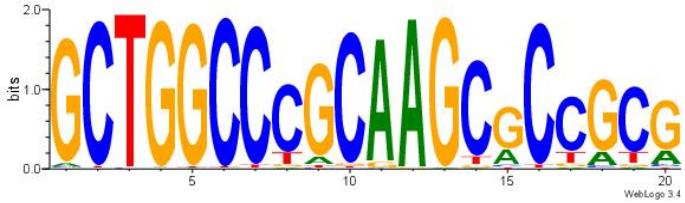

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

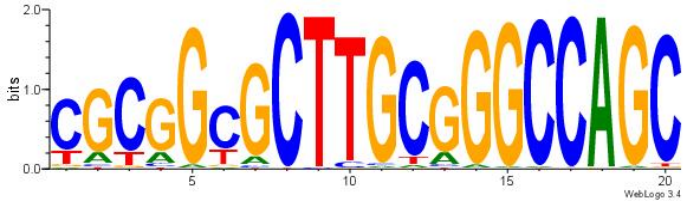

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0998204

Alignment:

```
CTGGCCCTCAATGGTTAAAC
---GCCCTCACCAGAAGC--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

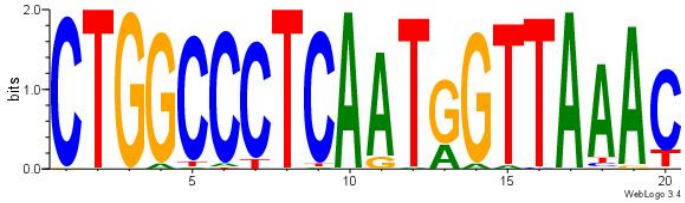

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

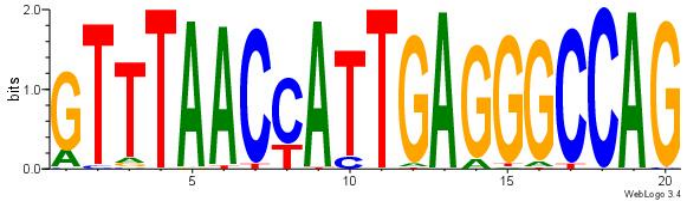

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.100279

Alignment:
GTAACACTCACCGCGARGGT
---GCCCTCACCAGAAGC--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

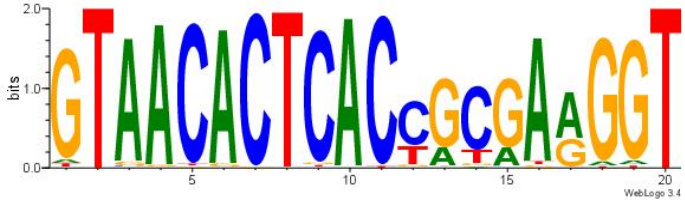

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

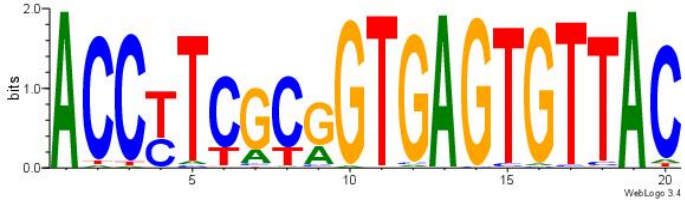

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.102694

Alignment:
GGATCCACTGGGTGAAGCCA
-GCTTCTGGTGAGGGC----

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

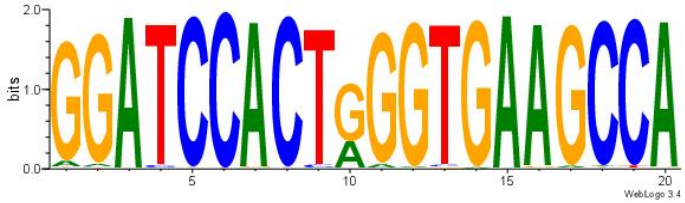

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

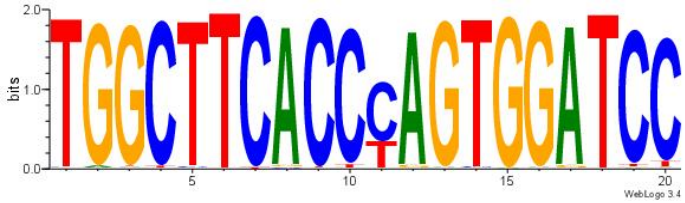

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.10286

Alignment:

```
AGGGCCTTTGCASWTGC
--GCCCTCACCAGAAGC
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

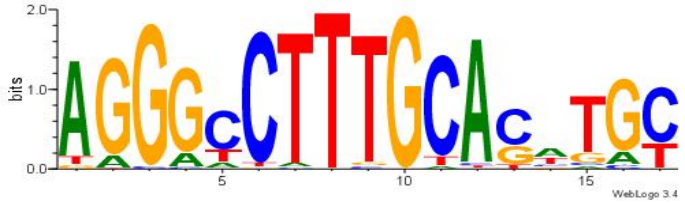

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

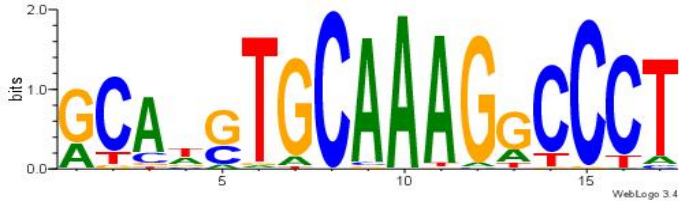

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.103936

Alignment:

```
ACAGGCTGTCCCAGGATTC
GCCCTCACCAGAAGC----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

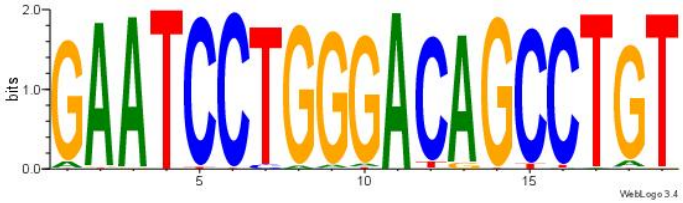

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

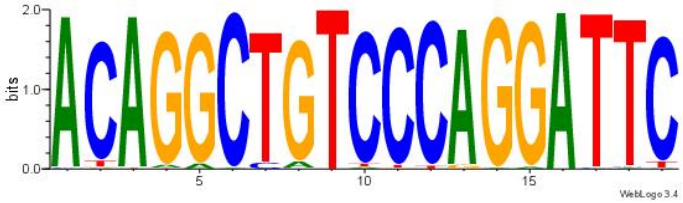

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 15
Similarity score: 0.104517

Alignment:
AWTKKTGGTTKCCAGKGGCT
-GCCCTCACCAGAAGC----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

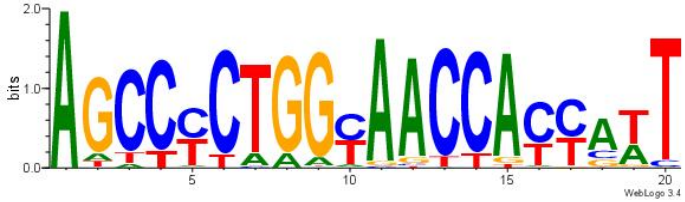

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

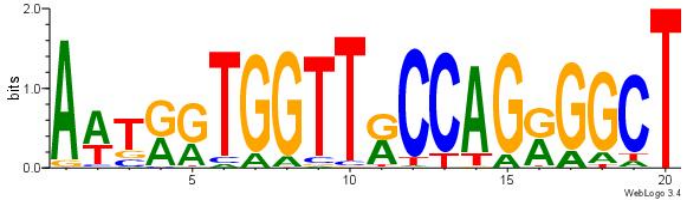

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.104892

Alignment:
GGAGGTGTGGAGGGAGAGGC
GCTTCTGGTGAGGGC-----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

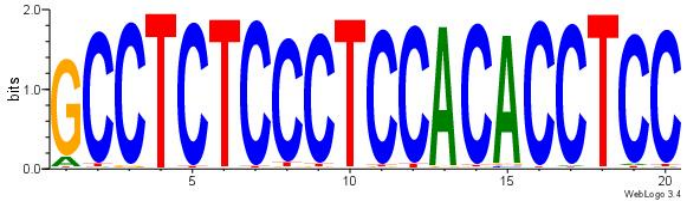

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

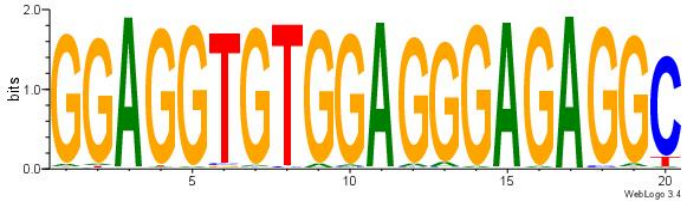

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.105817

Alignment:

```
GTGGCCCTCTTCTCACAGCT
----GCTTCTGGTGAGGGC-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

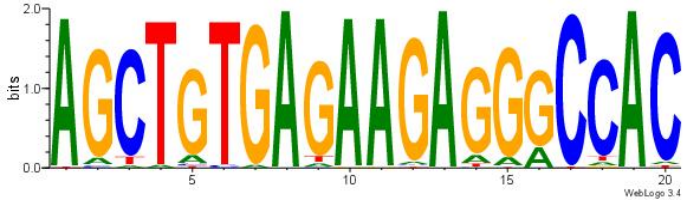

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

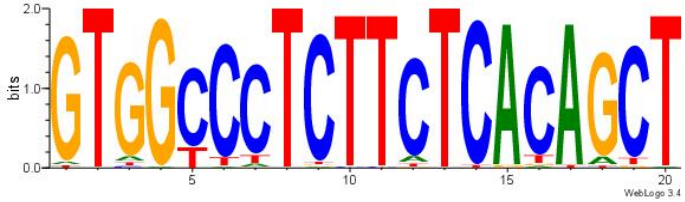

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.107848

Alignment:
CGCCCGGCCAGCCGC
GCCCTCACCAGAAGC

Original motif Consensus sequence: CGCCCGGCCAGCCGC

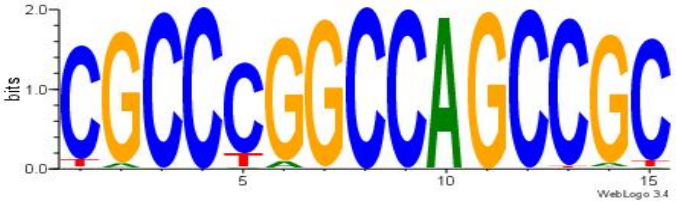

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

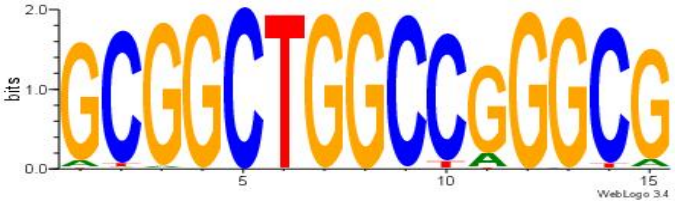

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.108824

Alignment:
CAAGCCTSKGCAATGGCAGG
---GCCCTCACCAGAAGC--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

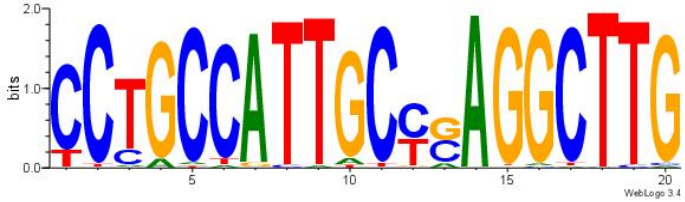

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

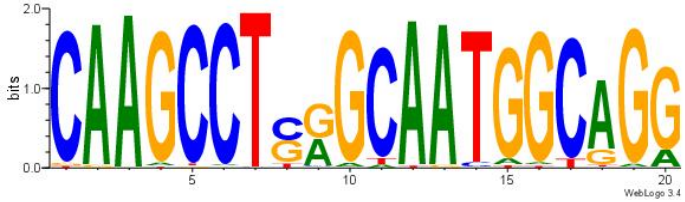

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.109307

Alignment:
GACATGAGCTGGCGCTTG
GCCCTCACCAGAAGC---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

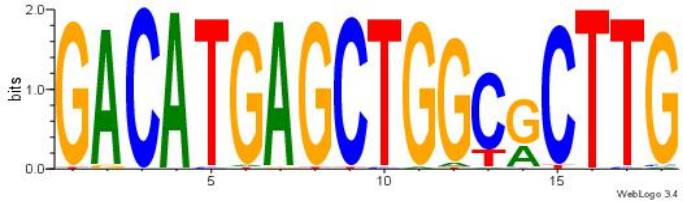

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

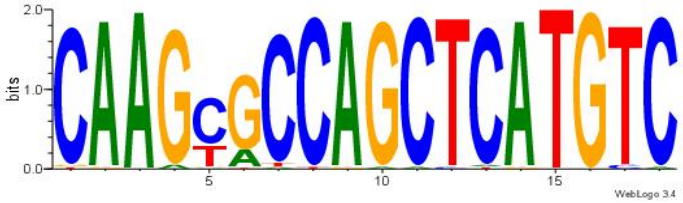

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	15
Similarity score:	0.109422

Alignment:

```
VMATTTAKTGAGCACCTACT
GCTTCTGGTGAGGGC-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

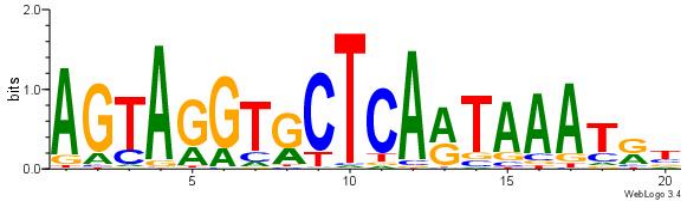

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

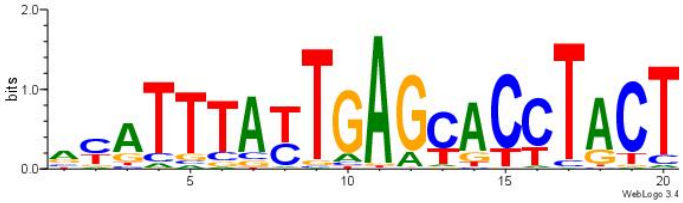

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	15
Similarity score:	0.110399

Alignment:

```
AAGACCTTCCAGTGGGACAA
----GCTTCTGGTGAGGGC-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

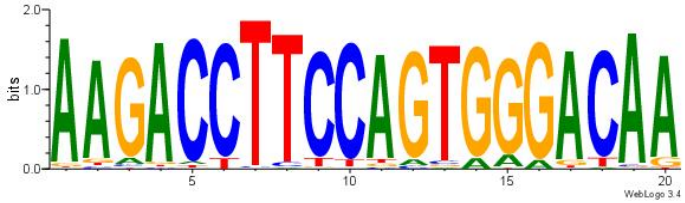

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

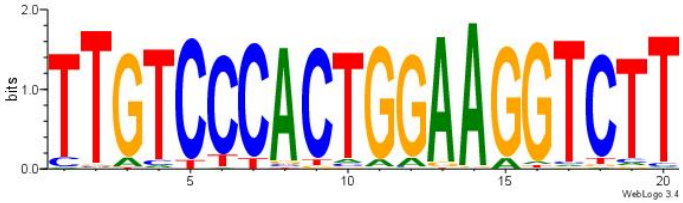

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.110588

Alignment:
TGCCCAGTCTGGAAAGTG
-GCCCTCACCAGAAGC--

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

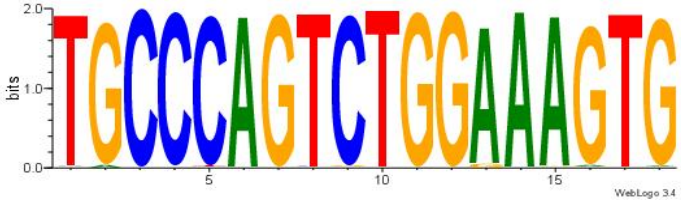

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

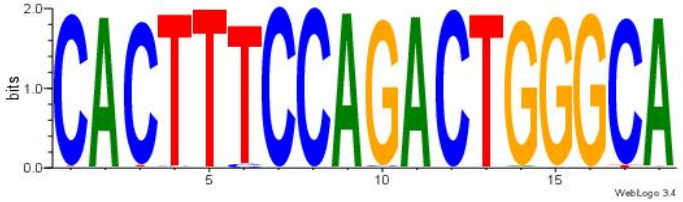

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.111047

Alignment:
GCTTAGCACCYGGGCCAGC
----GCTTCTGGTGAGGGC

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

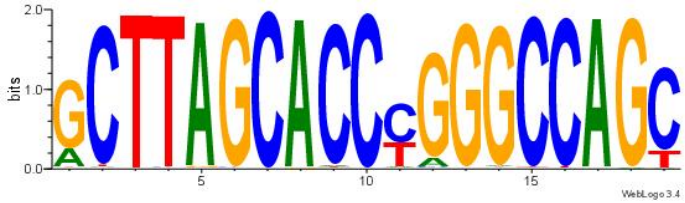

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

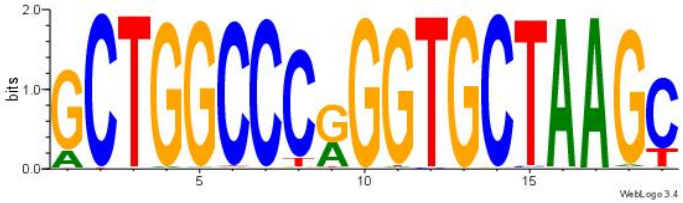

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.111304

Alignment:

```
ACTCCCTAGTGAGATGAACC
---GCCCTCACCAGAAGC--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

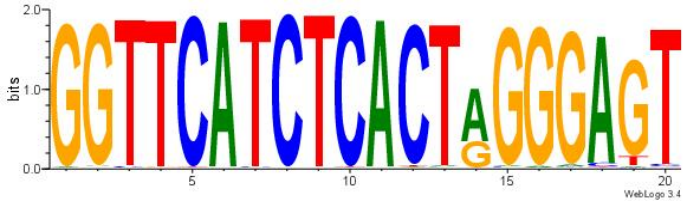

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

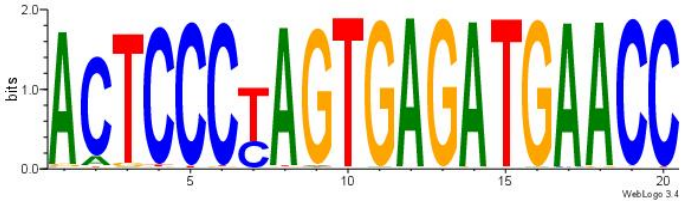

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.111414

Alignment:

```
CTTGCGCTTCCCRRGTGA
---GCCCTCACCAGAAGC
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

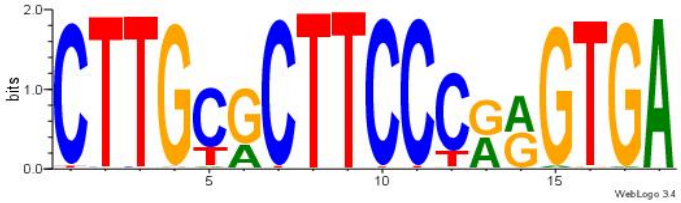

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

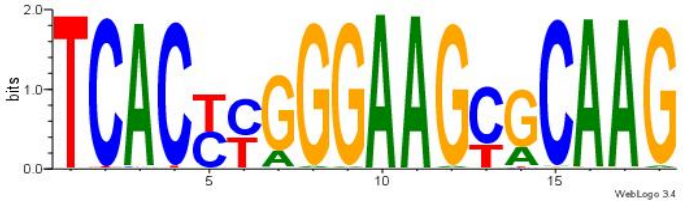

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 15
Similarity score: 0.112362

Alignment:
CGCCCATCGTCTGGGATGT
-GCTTCTGGTGAGGGC---

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

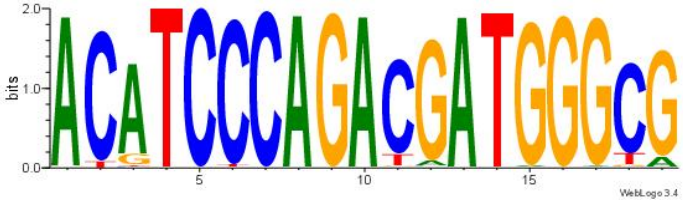

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

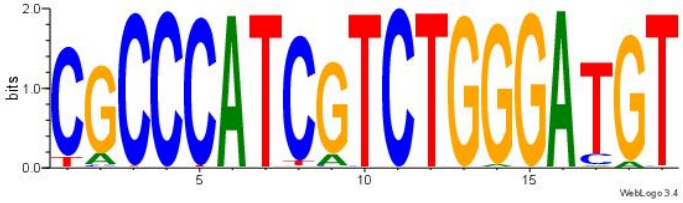

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.112457

Alignment:
CCACCACAGCTCAAGGAGGC
-GCCCTCACCAGAAGC----

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

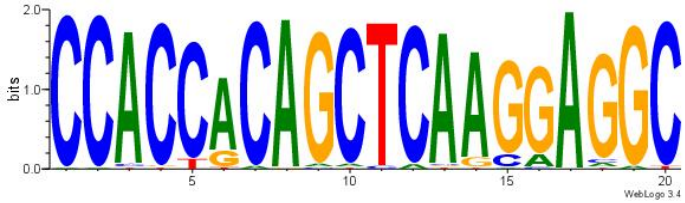

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

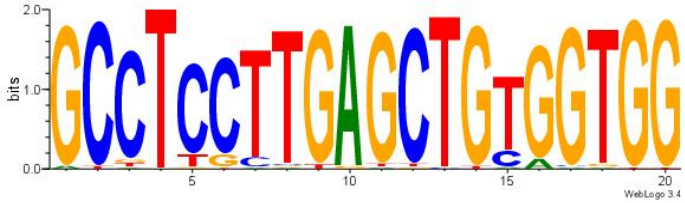

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.112872

Alignment:

```
AATGACCAATTGAGAGC
--GCTTCTGGTGAGGGC
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

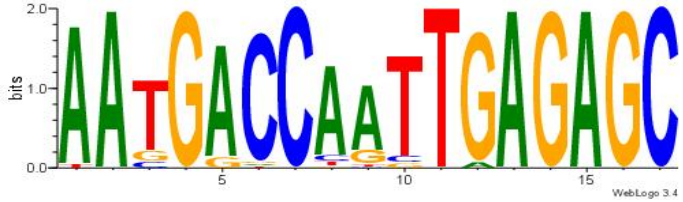

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

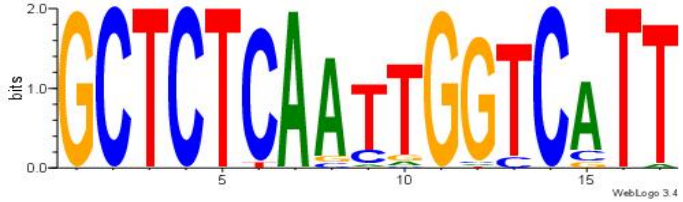

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.113005

Alignment:

```
MTCCTCCAGACCCCAGAATG
-----GCCCTCACCAGAAGC
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

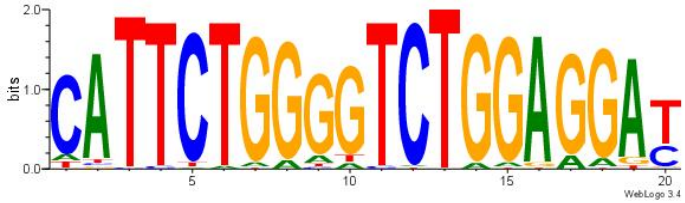

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

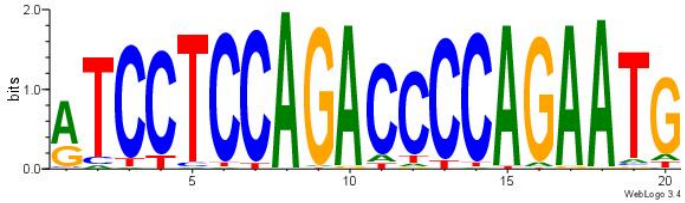

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 15
Similarity score: 0.113531

Alignment:
ATTAGCYRGGCRTGGTGGC
GCTTCTGGTGAGGGC----

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

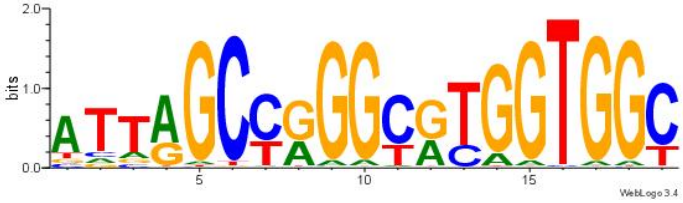

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

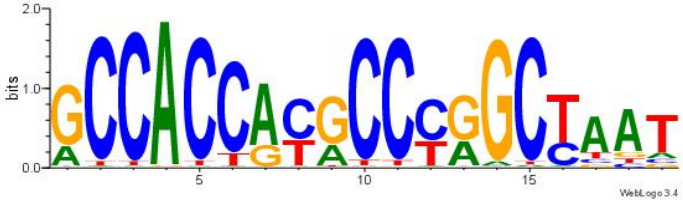

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 15
Similarity score: 0.11375

Alignment:
GTGTCKGGAGTTTGTTCCTT
GCTTCTGGTGAGGGC-----

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

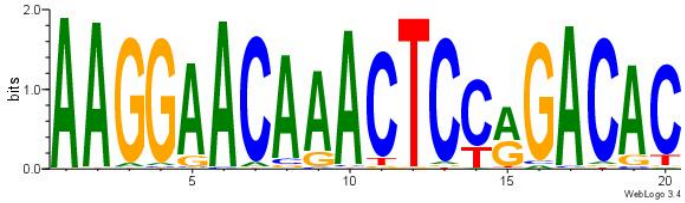

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

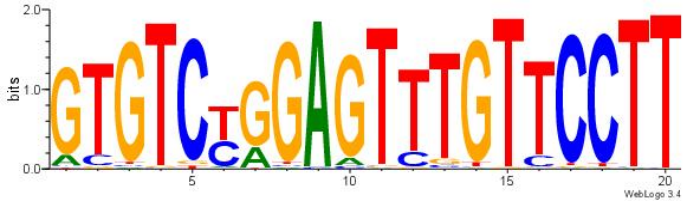

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.113986

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-----GCTTCTGGTGAGGGC
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

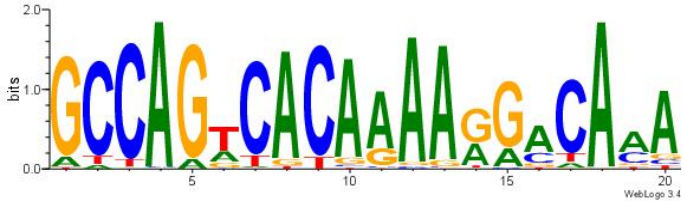

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

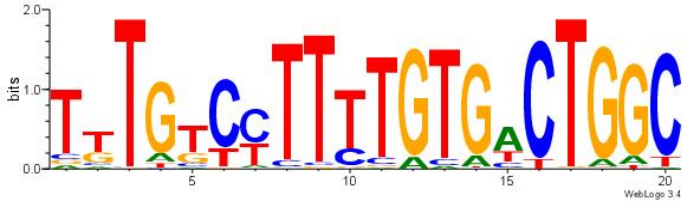

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.114245

Alignment:

```
CACCAGACTCAGGAGCCCAG
----GCCCTCACCAGAAGC-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

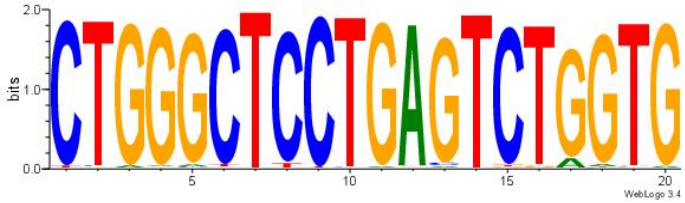

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

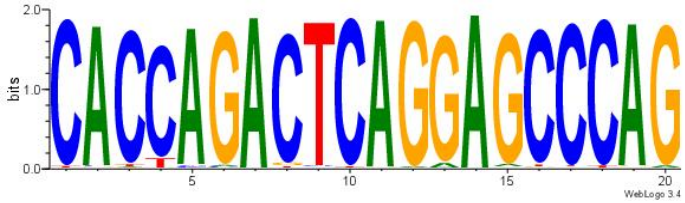

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.115083

Alignment:
AGAGCTCTGGCTGGCATCT
---GCCCTCACCAGAAGC-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

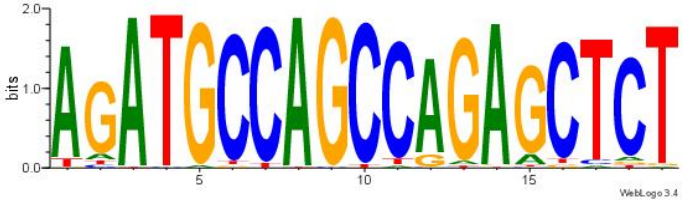

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

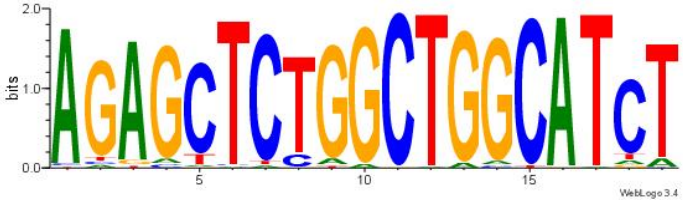

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.115574

Alignment:
CCTAGATTTCAGARGATGT
----GCCCTCACCAGAAGC

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

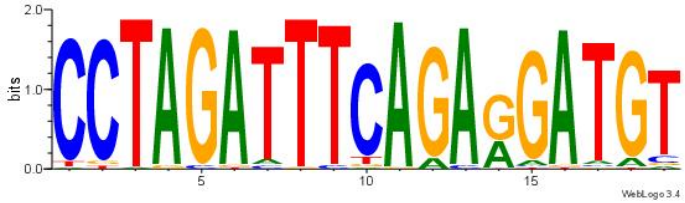

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

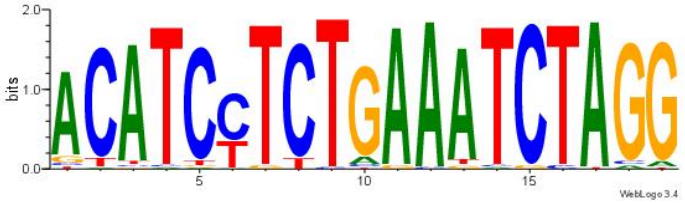

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.115889

Alignment:

```
ACCCYGTCTGGGAGGTG
GCCCTCACCAGAAGC--
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

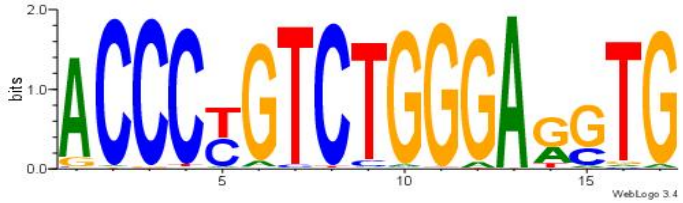

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

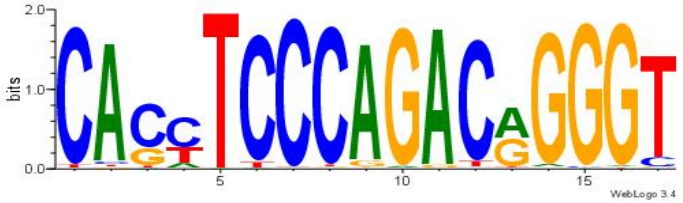

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.117061

Alignment:

```
GGCCMGCAGGGCKGGC
-GCTTCTGGTGAGGGC
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

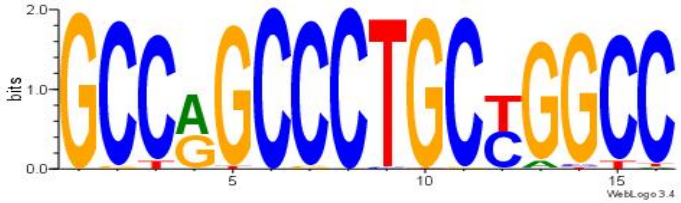

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

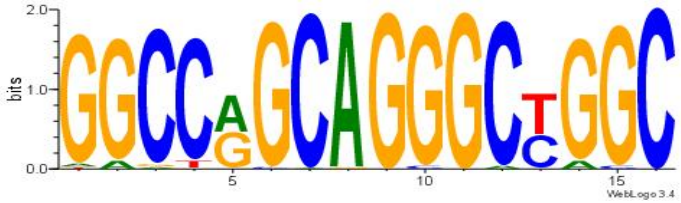

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 15
Similarity score: 0.11717

Alignment:
CAAGGGTATAYGAGTAGCTG
---GCCCTCACCAGAAGC--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

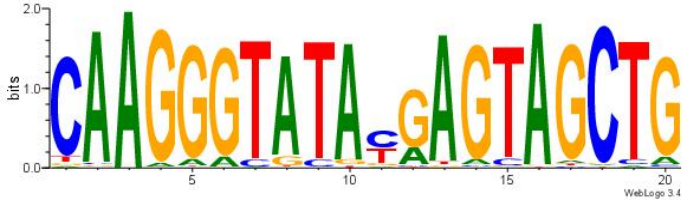

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

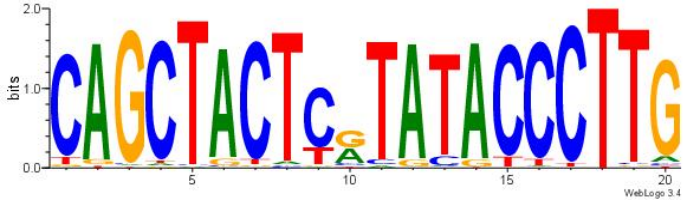

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.117616

Alignment:
GCCGTTTKTTAAGCCCGTY
---GCTTCTGGTGAGGGC-

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

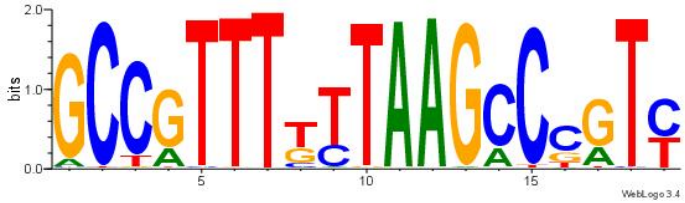

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

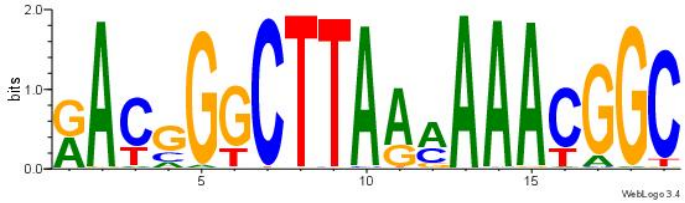

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.118071

Alignment:

```
AGGAGCGCCTCTKCCCGGC
GCTTCTGGTGAGGGC----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

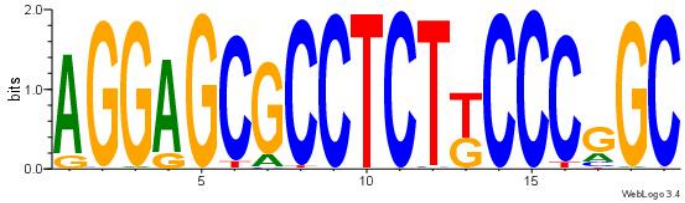

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

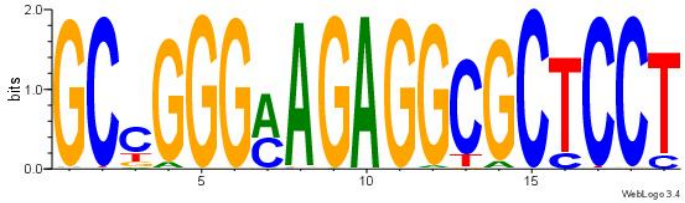

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.118462

Alignment:

```
CRTGAGCCACYGYRCCYGGC
GCTTCTGGTGAGGGC-----
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

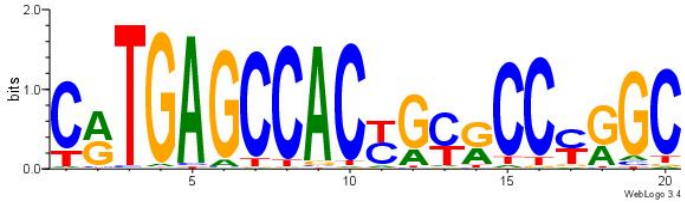

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

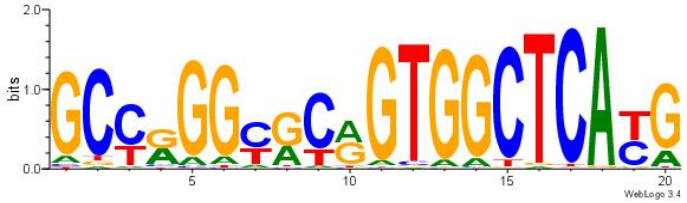

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 15
Similarity score: 0.118662

Alignment:
GCTCCACCCAGTTCGAGCTT
GCCCTCACCAGAAGC-----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

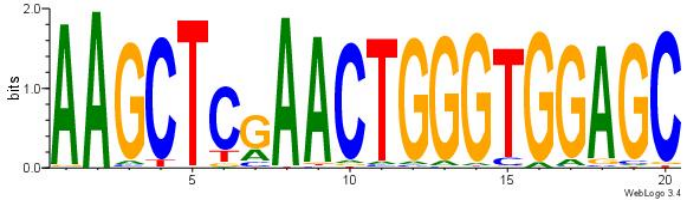

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

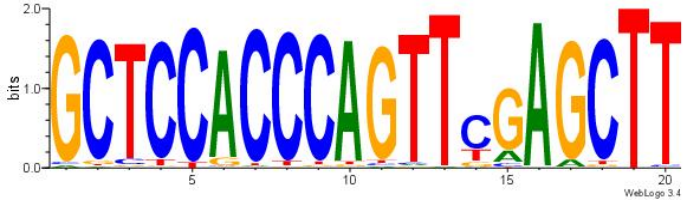

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.119172

Alignment:
TMGGGAGGCTGAGGCAGGAG
----GCTTCTGGTGAGGGC-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

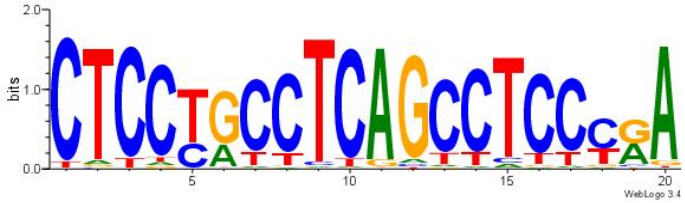

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

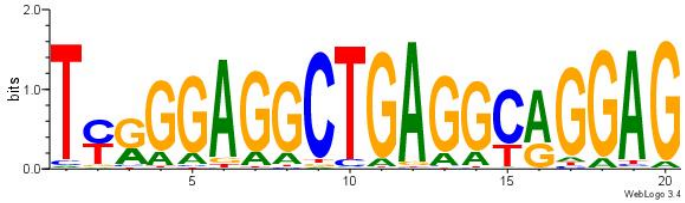

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.119313

Alignment:

```
CTATTGTGAATARTGCTGC
---GCTTCTGGTGAGGGC-
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

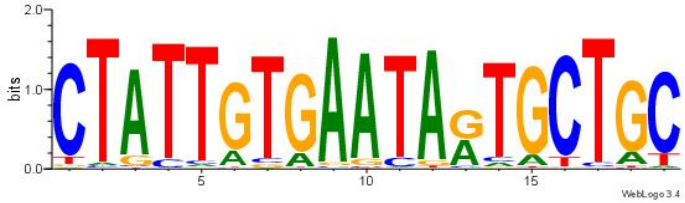

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

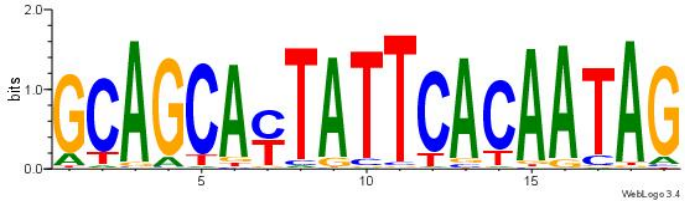

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.119453

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
---GCCCTCACCAGAAGC--
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

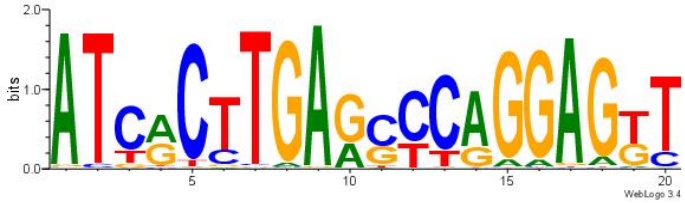

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

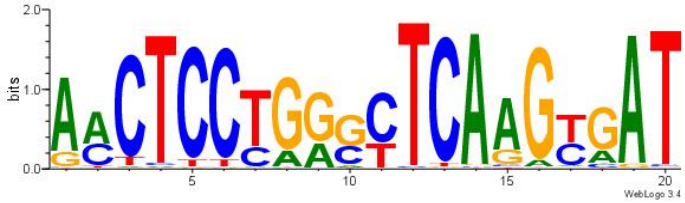

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.119832

Alignment:
CGCCCCGTCTGGGAAGTG
-GCCCTCACCAGAAGC--

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

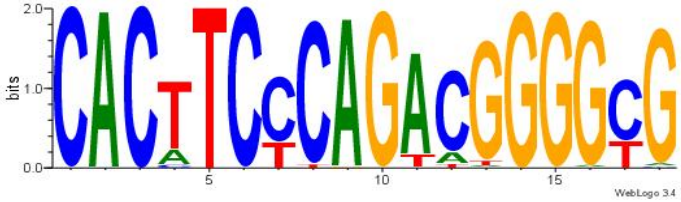

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

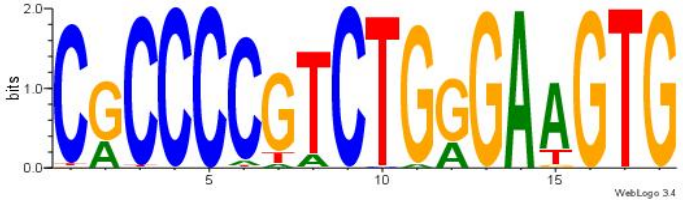

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.119871

Alignment:
GGGCTCCCACAGTGCAGCGG
-----GCCCTCACCAGAAGC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

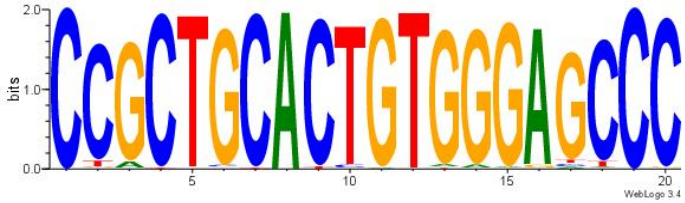

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

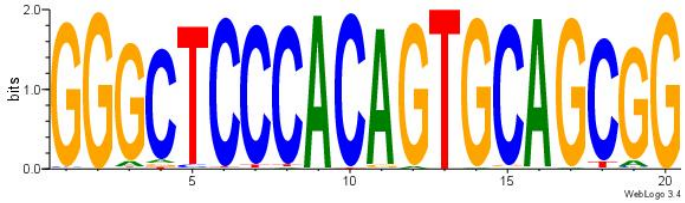

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.120041

Alignment:

```
TCGTTCACTCAGTGC
GCCCTCACCAGAAGC
```

Original motif Consensus sequence: GCACTGAGTGAACGA

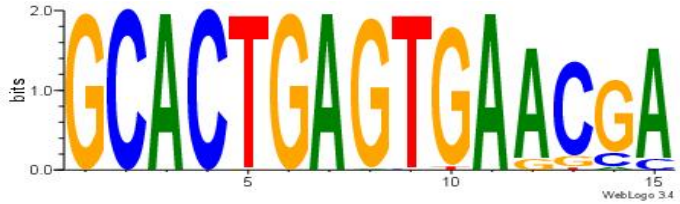

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

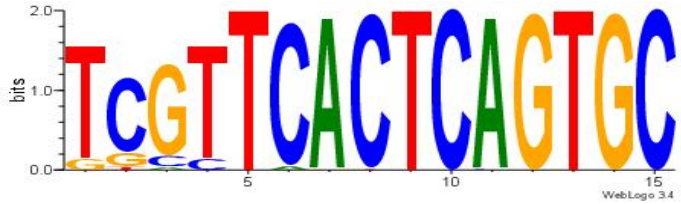

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.120426

Alignment:

```
AGGTCCTTCAGGAGGTATTC
---GCCCTCACCAGAAGC--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

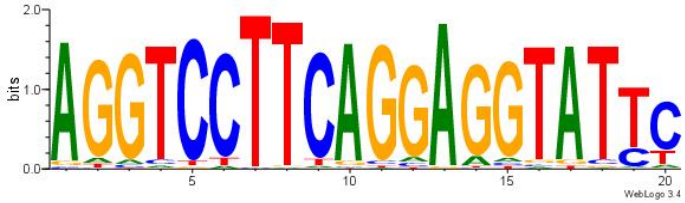

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

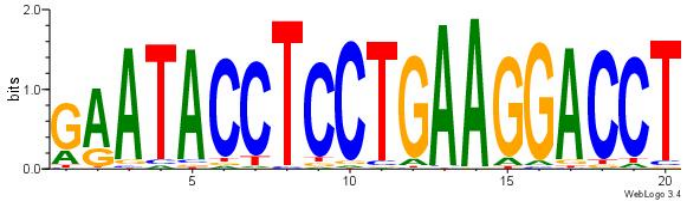

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 15
Similarity score: 0.120743

Alignment:
TGCTCACACAAAGCCTGT
--GCCCTCACCAGAAGC-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

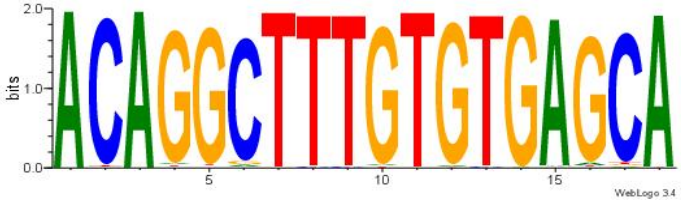

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

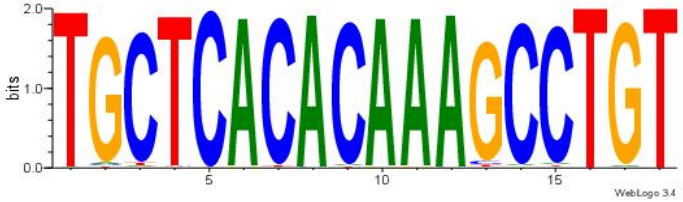

Dataset #: 1 Motif ID: 278 Motif name: Motif 278

Original motif Consensus sequence: ACTTTCAGGCATAACA

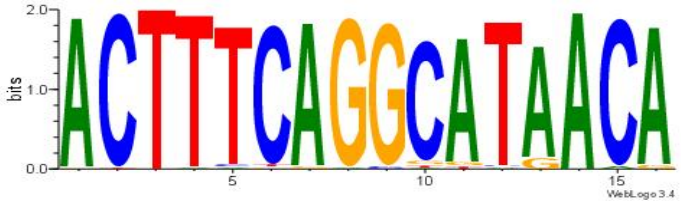

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

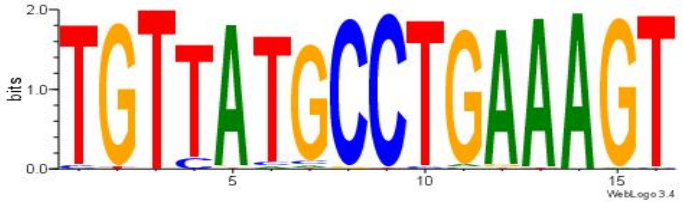

Best Matches for Motif ID 278 (Highest to Lowest)

Dataset #: 1
Motif ID: 52
Motif name: Motif 52

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0883057

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

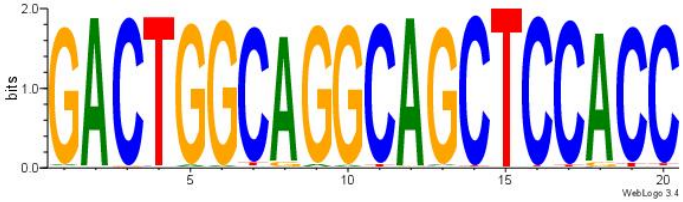

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

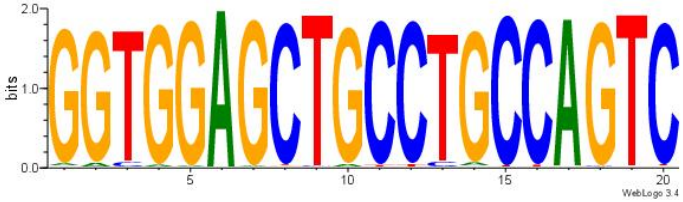

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.101075

Alignment:
TAATTTTATGTGTCAACTTG
---TGTTATGCCTGAAAGT-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

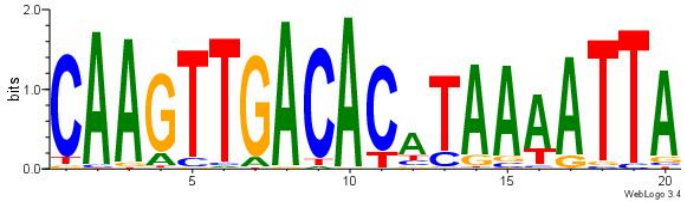

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

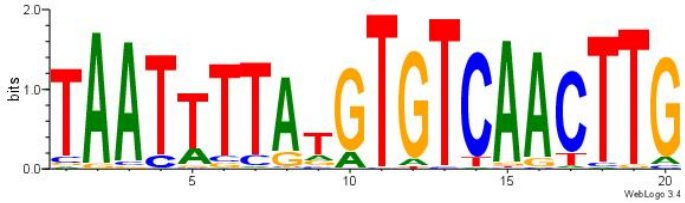

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.102784

Alignment:
AAGACCTTCCAGTGGGACAA
---ACTTTCAGGCATAACA-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

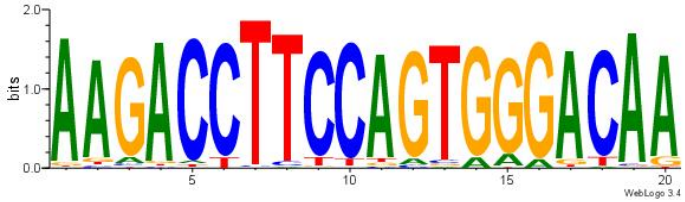

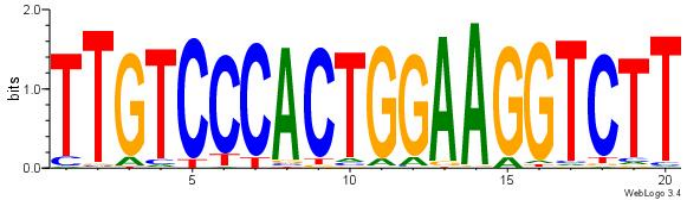

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.110723

Alignment:

```
GTTGTGAGGATTAAATGAG
--TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

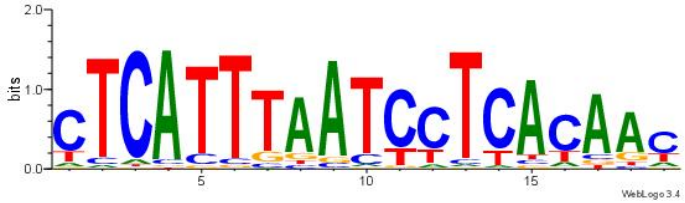

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

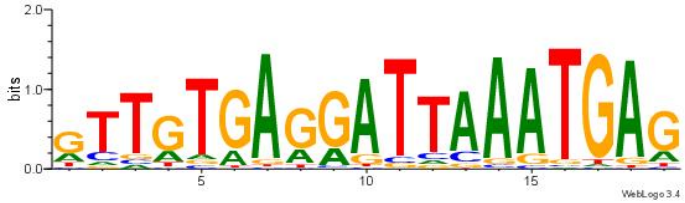

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.114892

Alignment:

```
ATAGGAATGCTTGTGATTTT
--TGTTATGCCTGAAAGT--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

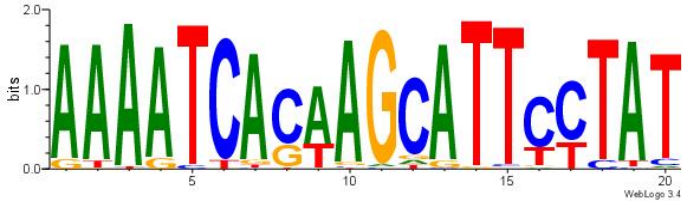

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

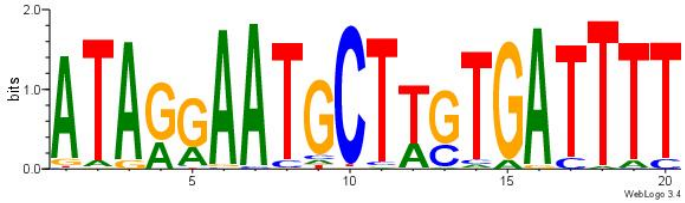

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.116769

Alignment:
AAGCAGGGCGAGGCATTGCC
----ACTTTCAGGCATAACA

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

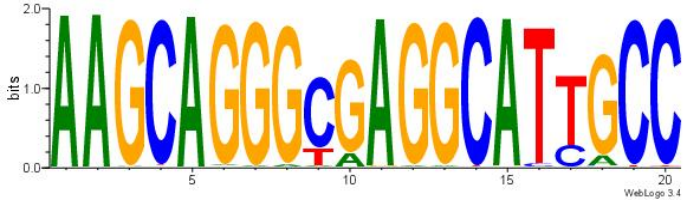

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

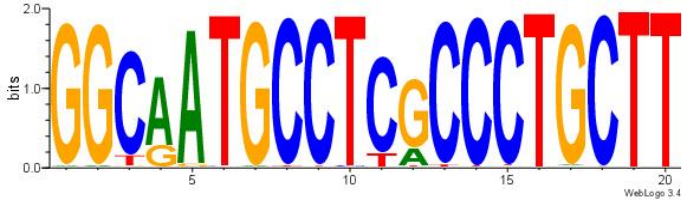

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.11723

Alignment:
GGGAGGTGTCTCCCAGTCAG
-TGTTATGCCTGAAAGT---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

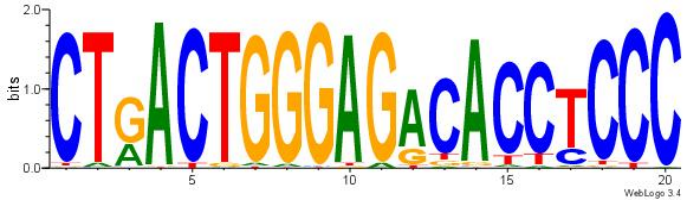

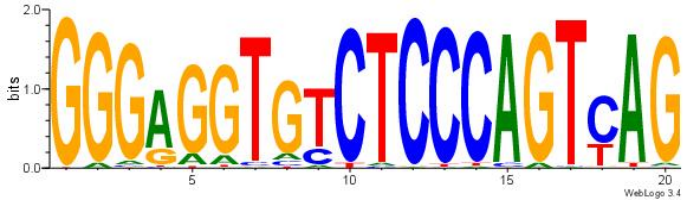

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.117492

Alignment:

```
CATTCTGGGGTCTGGAGGAY
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

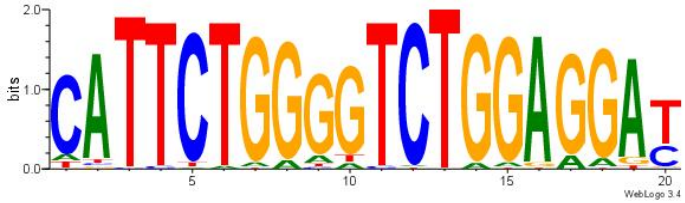

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

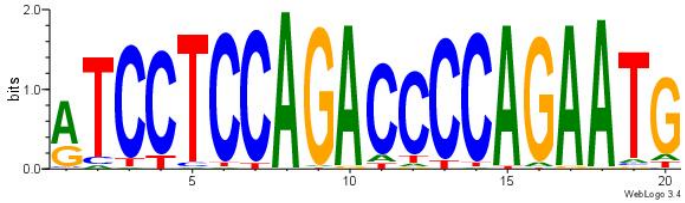

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.11767

Alignment:

```
GACTTCAAGAATGAAGCCG
ACTTTCAGGCATAACA---
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

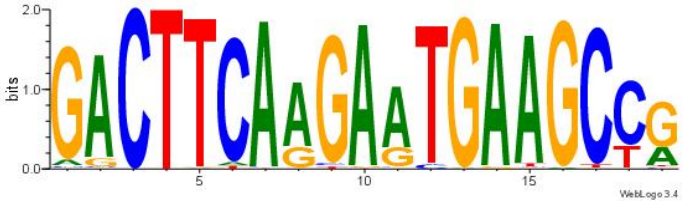

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

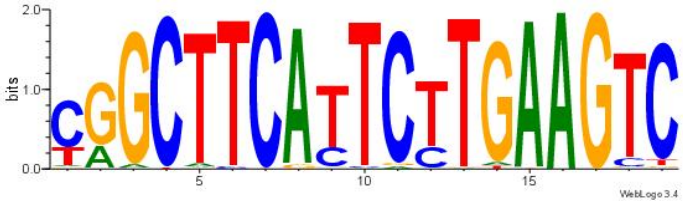

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16

Similarity score: 0.11821

Alignment:
ACTGTCTTCCACCTCCACAT
TGTTATGCCTGAAAGT----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

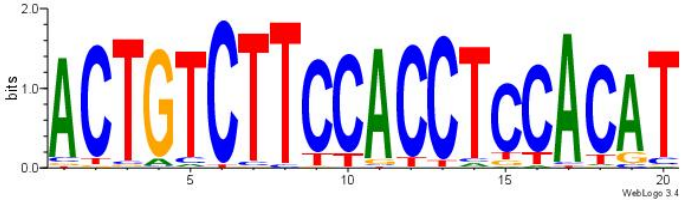

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

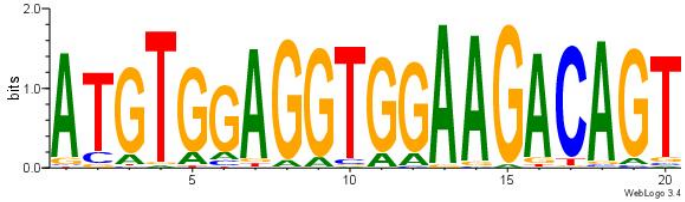

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.118341

Alignment:
TGATACCCAGGCAAACAG
TGTTATGCCTGAAAGT--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

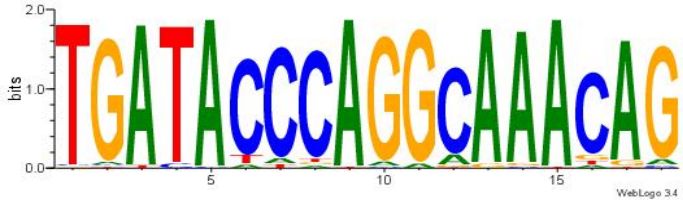

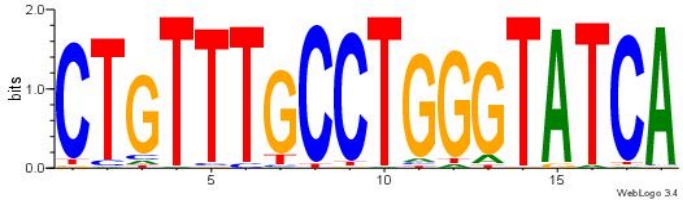

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.119057

Alignment:

```
AGGTCCTTCAGGAGGTATTC
---ACTTTCAGGCATAACA-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

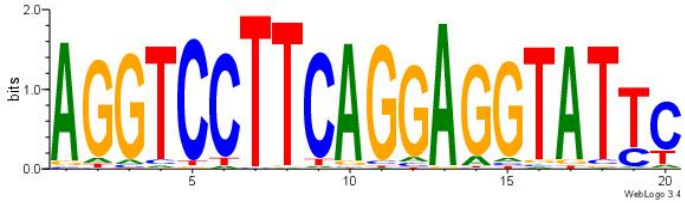

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

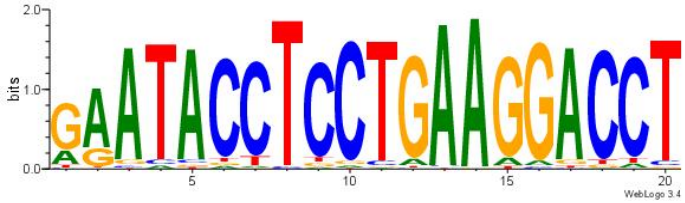

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.119288

Alignment:

```
HAGTGGKATTGCTGGATCAT
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

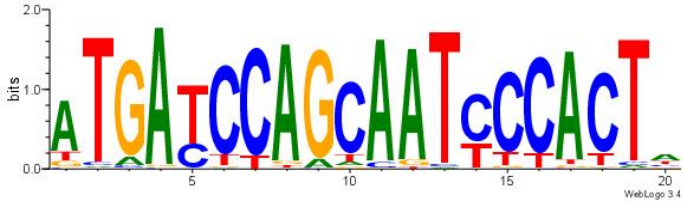

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

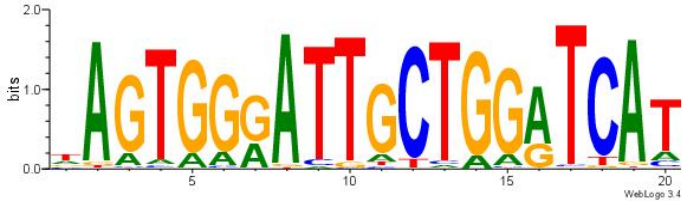

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.119591

Alignment:
AAATTAGGCCAATTAATAAC
-TGTTATGCCTGAAAGT---

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

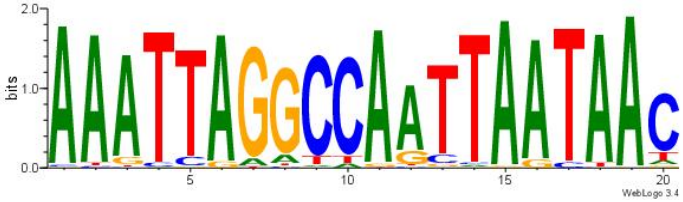

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.119811

Alignment:
CCCATGCAAGTCYRAAATCC
-ACTTTCAGGCATAACA---

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

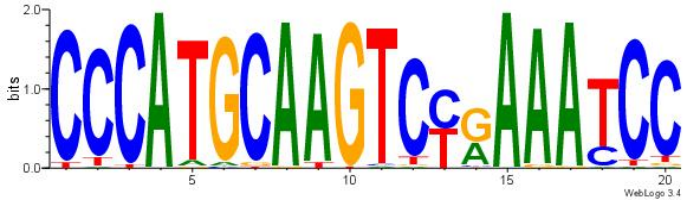

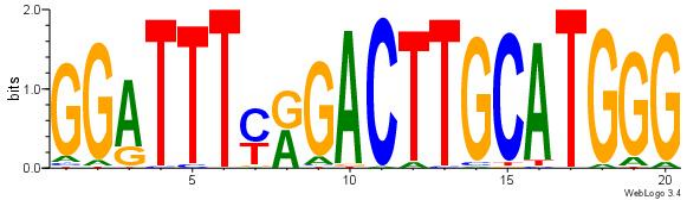

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.119828

Alignment:

```
TGCCCAGTCTGGAAAGTG
-TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

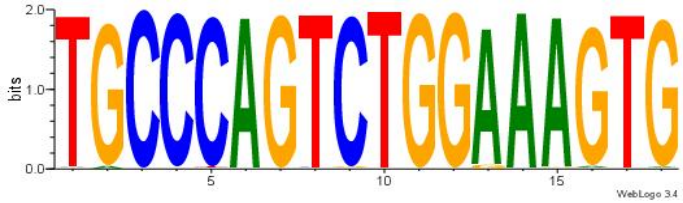

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

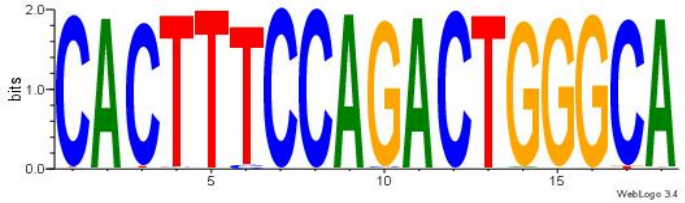

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.120404

Alignment:

```
AAGTCTCCCAATTACAACT
ACTTTCAGGCATAACA---
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

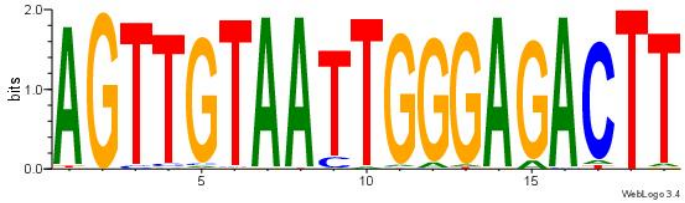

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

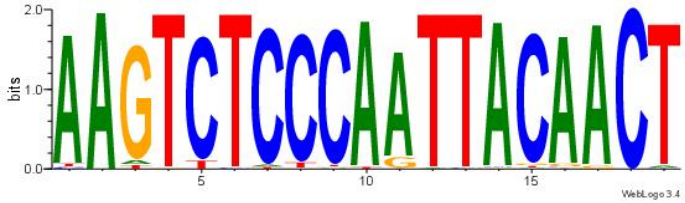

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16

Similarity score: 0.12049

Alignment:
AGATGCCAGCCAGAGCTCT
-ACTTTCAGGCATAACA--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

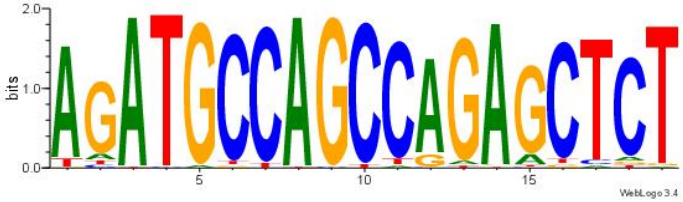

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

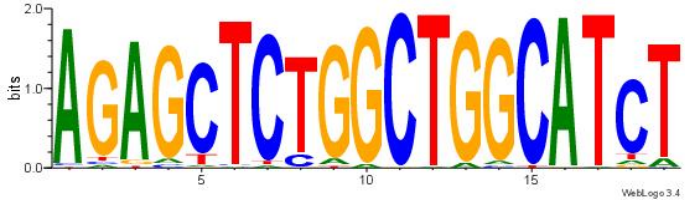

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.121965

Alignment:
AAGTTCTKGGKTACATGTGC
----ACTTTCAGGCATAACA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

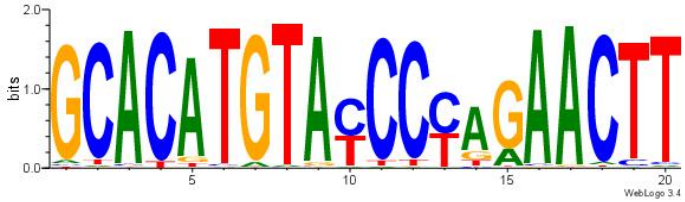

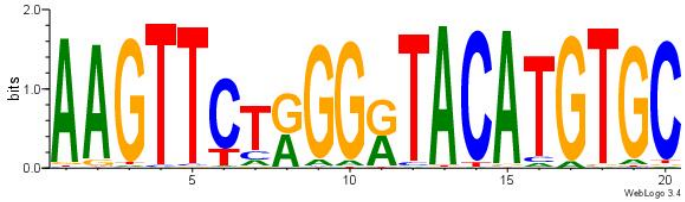

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.123839

Alignment:

```
TCCAAATGGGAGAAATTGGC
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

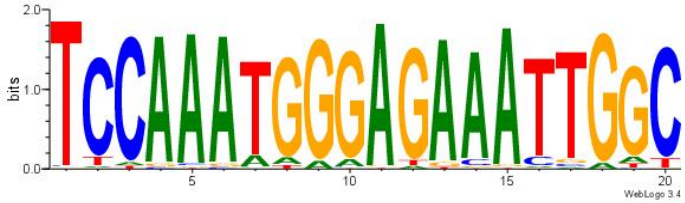

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

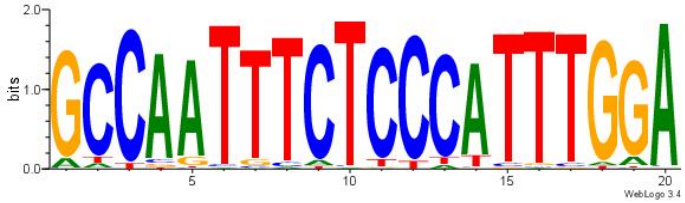

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.124308

Alignment:

```
CTCCAGKTMCATCCATGTTG
ACTTTCAGGCATAACA----
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

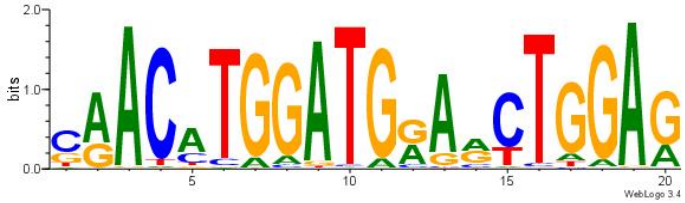

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

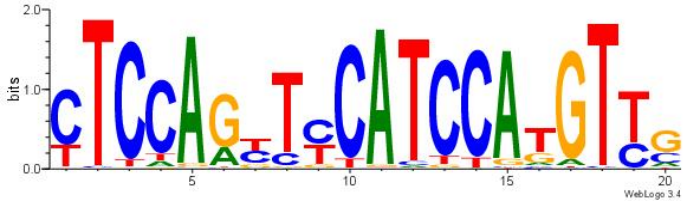

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.124675

Alignment:
AGTTCCGGGTGGGCGTGGG
---TGTTATGCCTGAAAGT

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

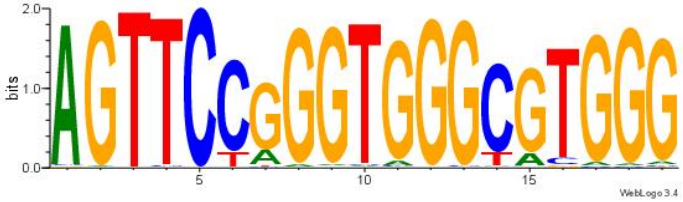

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

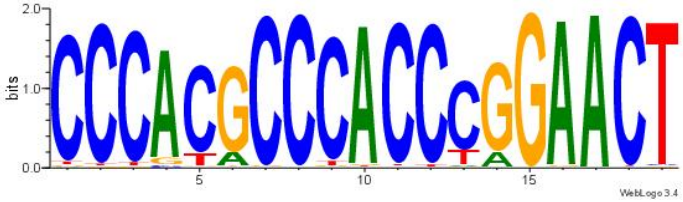

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.125299

Alignment:
CAAGCCTSKGCAATGGCAGG
--ACTTTCAGGCATAACA--

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

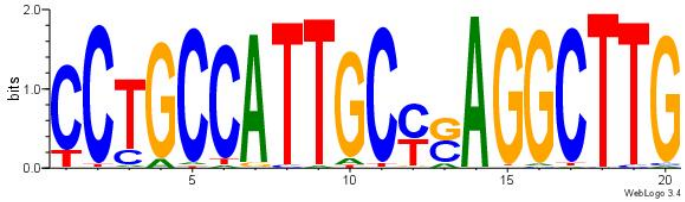

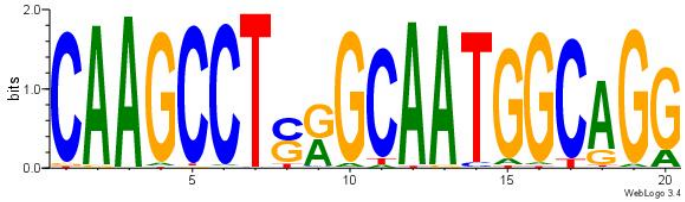

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.125485

Alignment:

```
CTAGACATAAAGGTTCTCCA
----ACTTTCAGGCATAACA
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

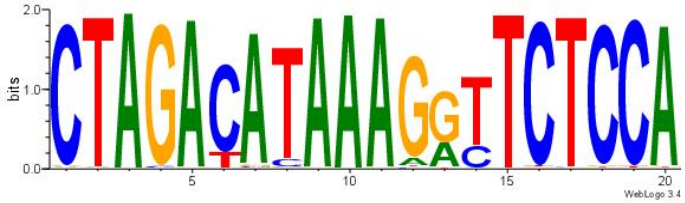

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

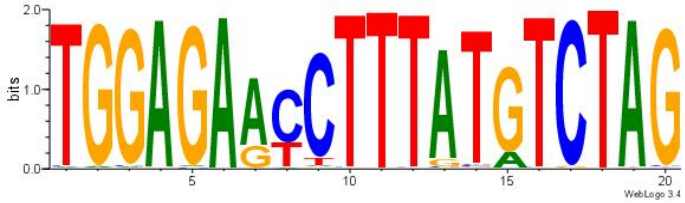

Dataset #:	1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.126249

Alignment:

```
GCAGCAMTATTCACAATAG
-ACTTTCAGGCATAACA--
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

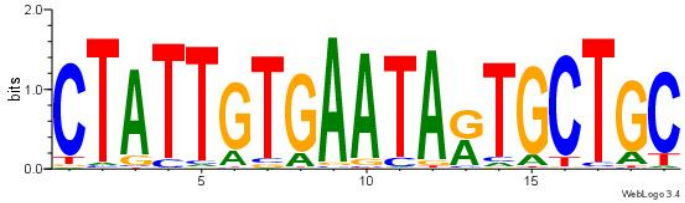

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

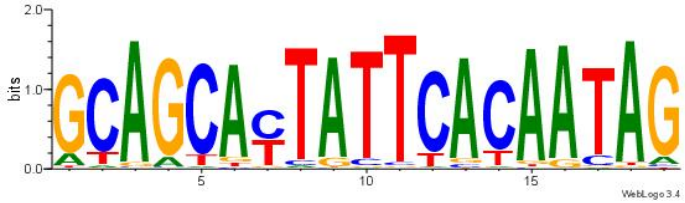

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16

Similarity score: 0.127732

Alignment:
TCACKMGGGAAGCGCAAG
--ACTTTCAGGCATAACA

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

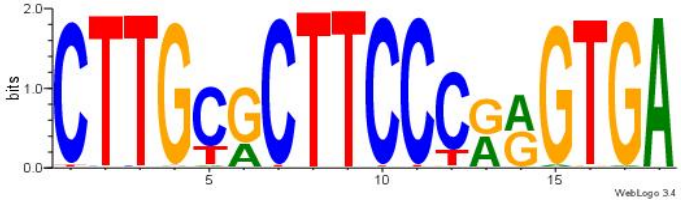

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

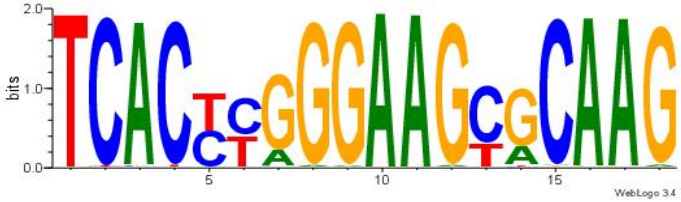

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.128162

Alignment:
AGTAGGTGCTCARTAAATRB
TGTTATGCCTGAAAGT----

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

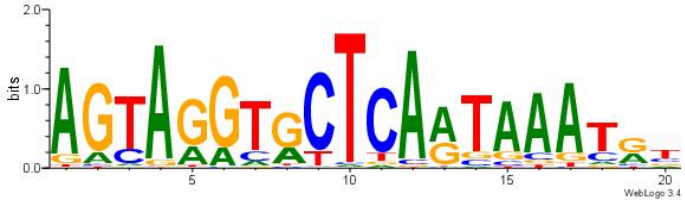

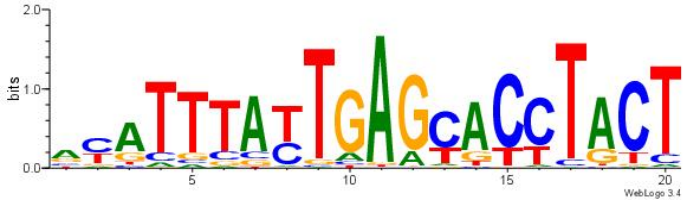

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.128936

Alignment:

```
ATTGATMKCCAGGGTTGATT
ACTTTCAGGCATAACA----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

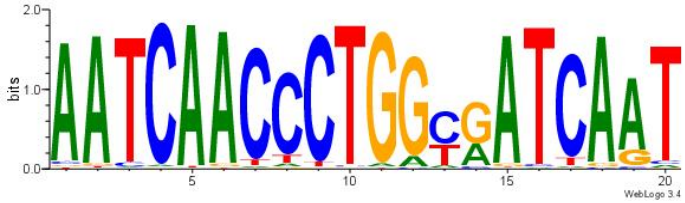

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

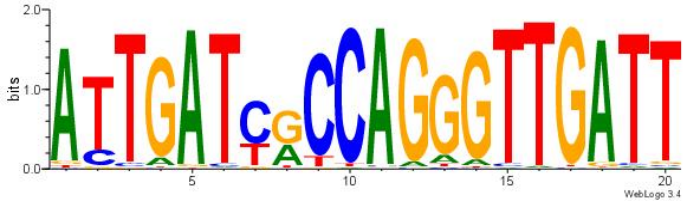

Dataset #:	1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.129188

Alignment:
AACAACAACAACAAMAA
ACTTTCAGGCATAACA-

Original motif Consensus sequence: AACAACAACAACAAMAA

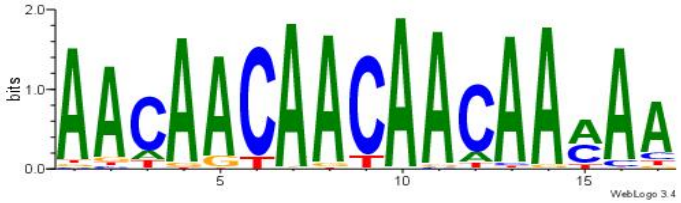

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

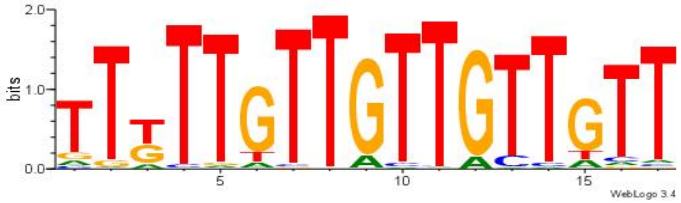

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

Similarity score: 0.129255

Alignment:
ARCTCCTGKSCTCAAGKGAT
----ACTTTCAGGCATAACA

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

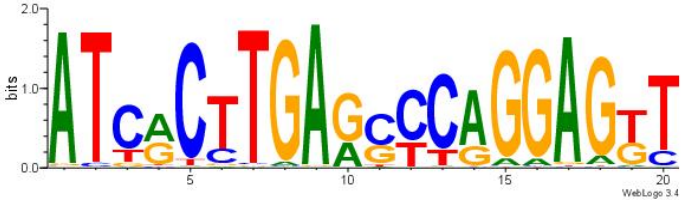

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

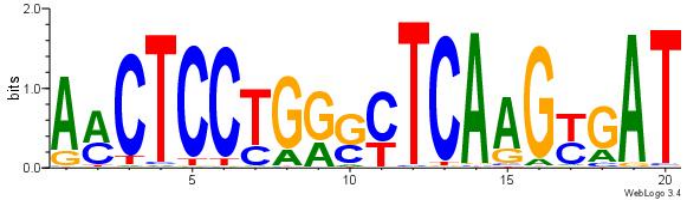

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.129276

Alignment:
CAGTCTGTGTCTTTTAATT
---TGTTATGCCTGAAAGT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

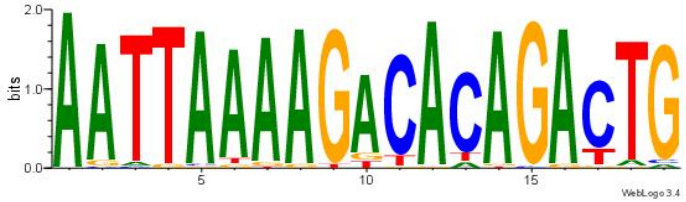

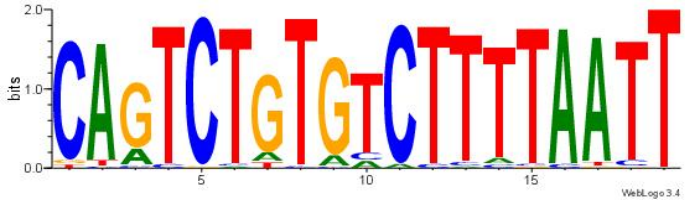

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.129284

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-TGTTATGCCTGAAAGT---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

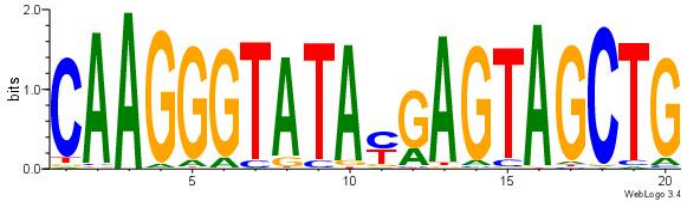

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

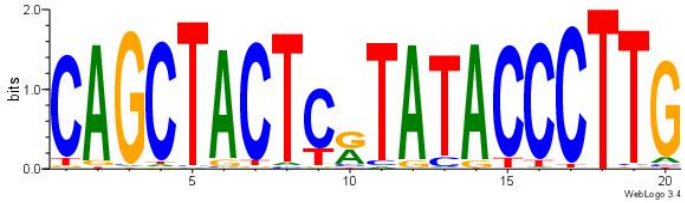

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.129767

Alignment:

```
AGCTCCCAGCGTGAGCGACG
ACTTTCAGGCATAACA----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

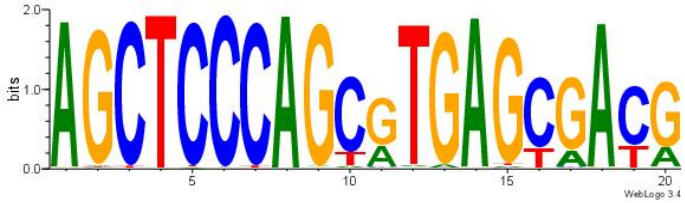

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

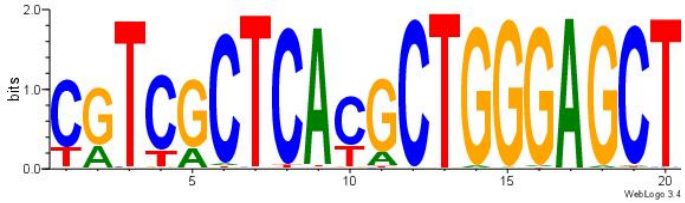

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.130516

Alignment:
ATCTGACAGGAGGYRGAGCT
-ACTTTCAGGCATAACA---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

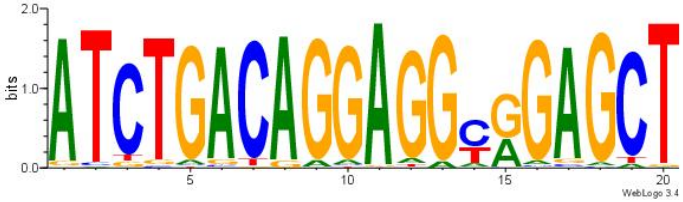

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

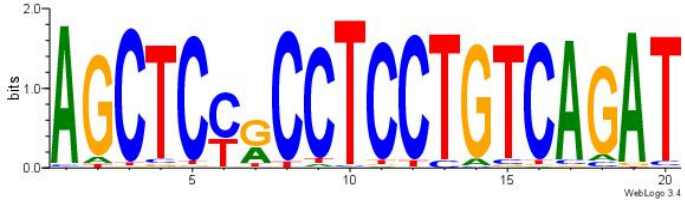

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.130802

Alignment:
CTGGCCCTCAATGGTTAAAC
---ACTTTCAGGCATAACA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

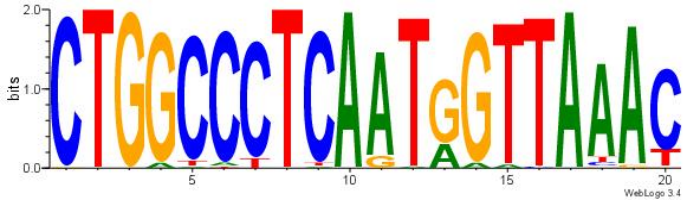

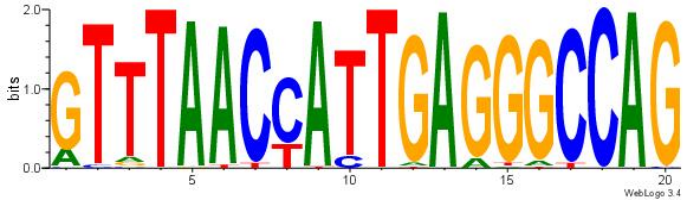

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.131317

Alignment:

```
GCTGCARTCTCGGCACTTT
--TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

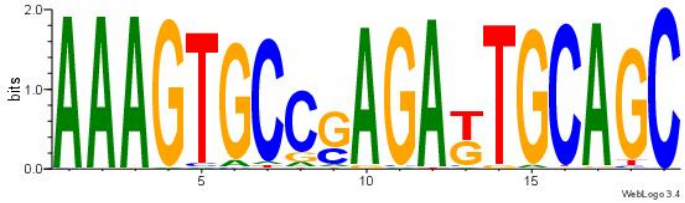

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

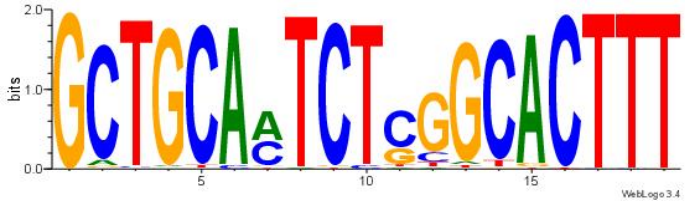

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.132109

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

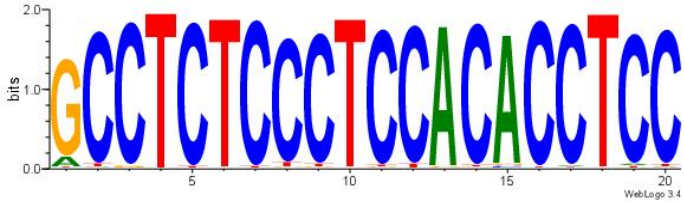

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

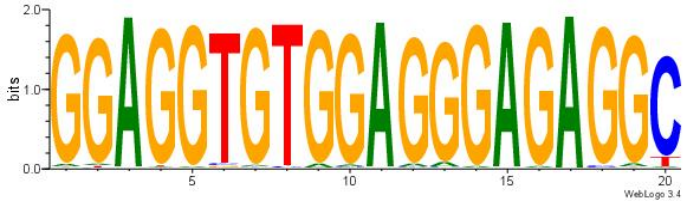

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16

Similarity score: 0.13248

Alignment:
CATGGCGGGCTGCAGGTC
-TGTTATGCCTGAAAGT-

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

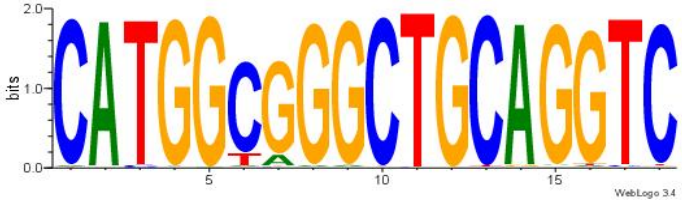

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

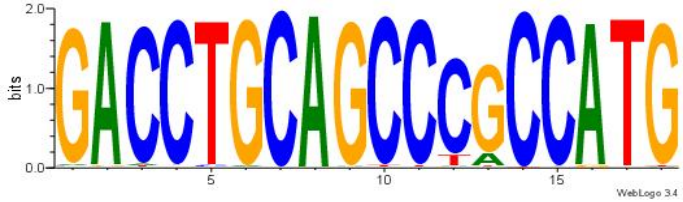

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.132886

Alignment:
AGTTCTTAAAGATGGT
TGTTATGCCTGAAAGT

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

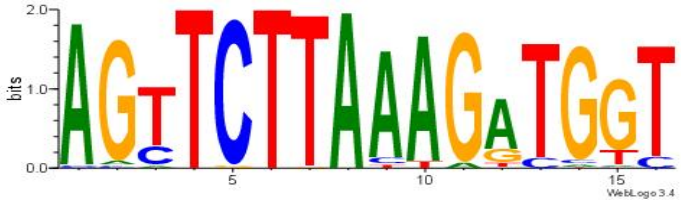

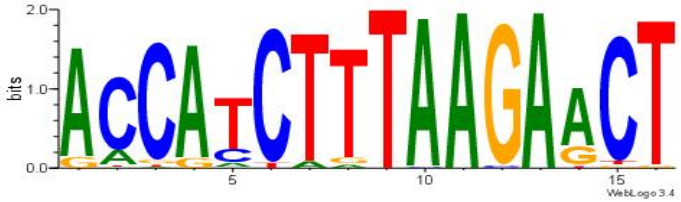

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.13292

Alignment:

```
AGGTATTTCTCCCACC
TGTTATGCCTGAAAGT
```

Original motif Consensus sequence: AGGTATTTCTCCCACC

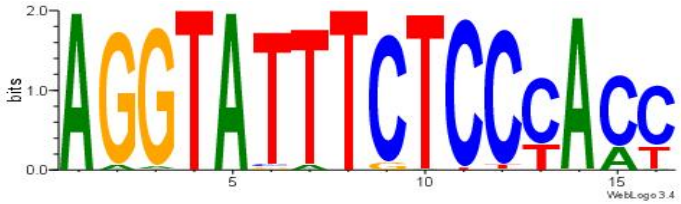

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

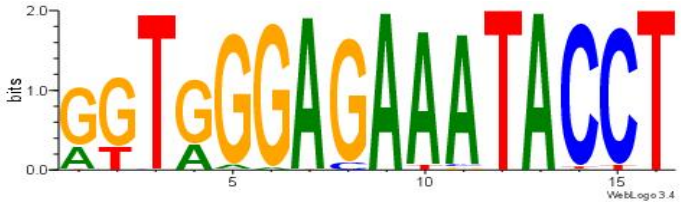

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.133437

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

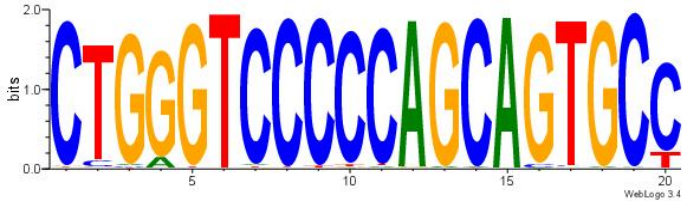

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

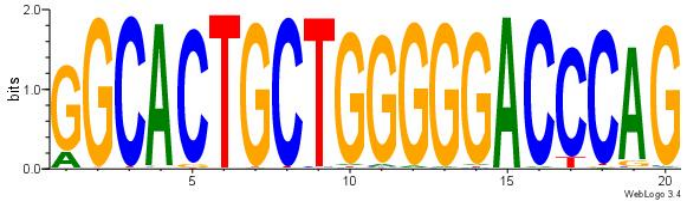

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16

Similarity score: 0.134097

Alignment:
AWTKKTGGTTKCCAGKGGCT
TGTTATGCCTGAAAGT----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

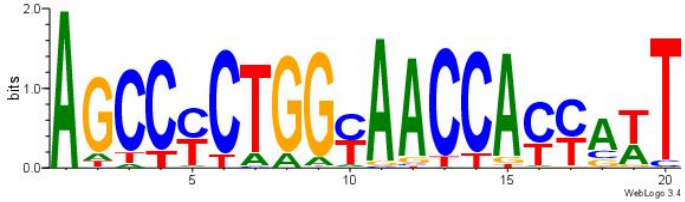

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

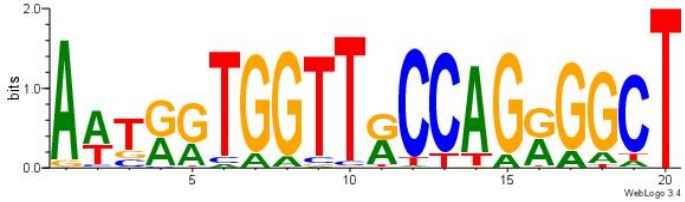

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.134706

Alignment:
ACACACAYACACACACACA
ACTTTCAGGCATAACA---

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

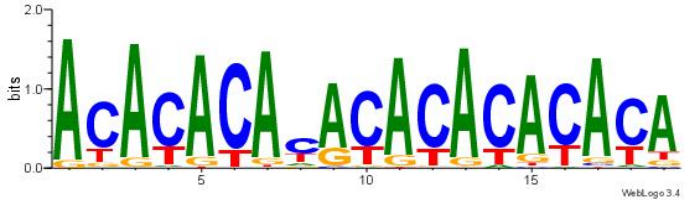

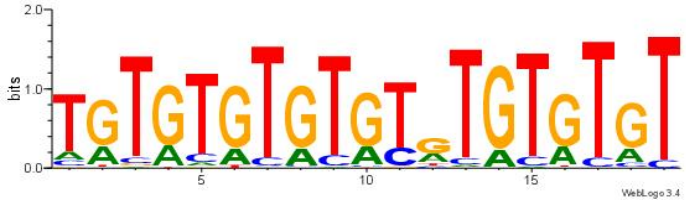

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.134768

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
-TGTTATGCCTGAAAGT---
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

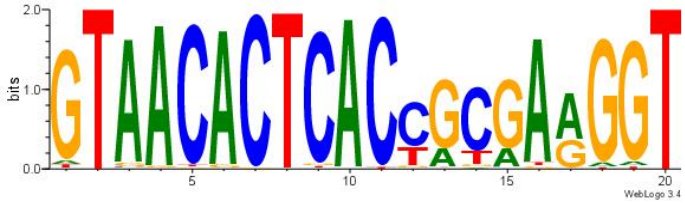

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

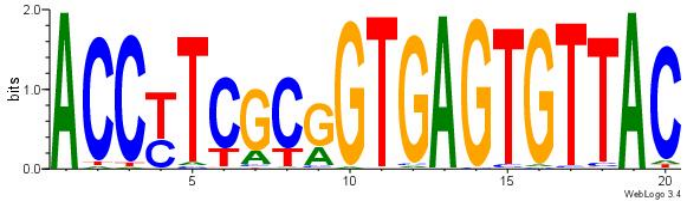

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.135206

Alignment:

```
GAATCCTGGGACAGCCTGT
ACTTTCAGGCATAACA---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

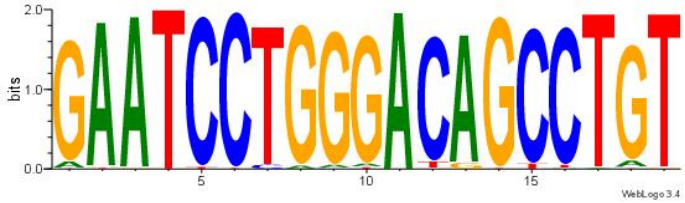

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

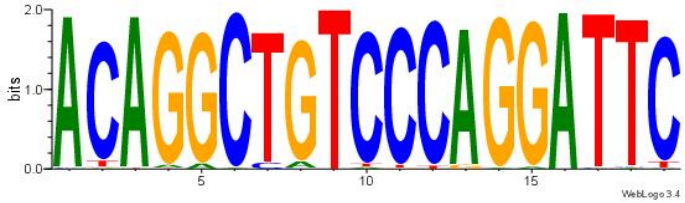

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16

Similarity score: 0.135772

Alignment:
GGTTTTCCATTCCTGAG
TGTTATGCCTGAAAGT-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

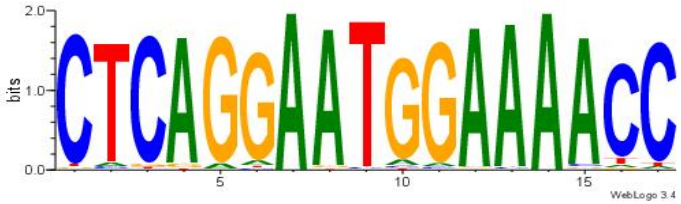

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

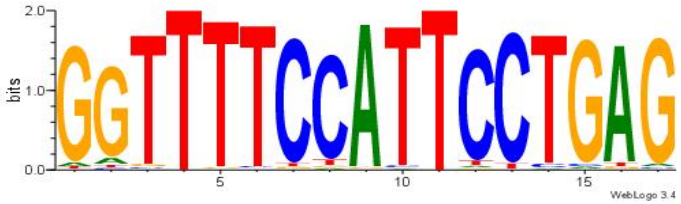

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.135852

Alignment:
GGGATTGTAAATACACCAAT
--ACTTTCAGGCATAACA--

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

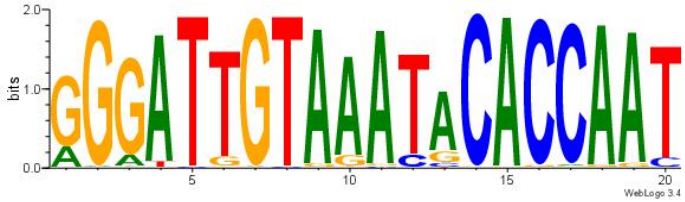

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.13683

Alignment:

```
TTTTCACATGCCTTTCT
ACTTTCAGGCATAACA-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

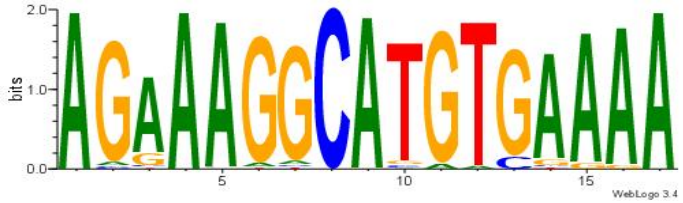

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

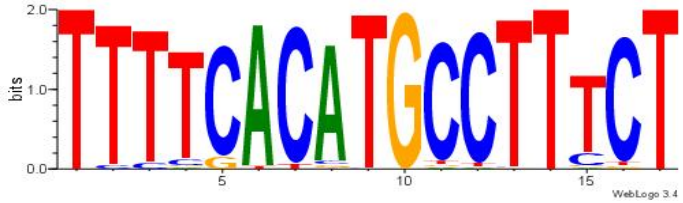

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.137152

Alignment:

```
ATGGAATAYTATTCAGCCAT
---TGTTATGCCTGAAAGT-
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

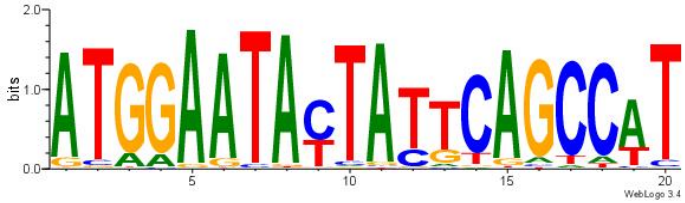

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

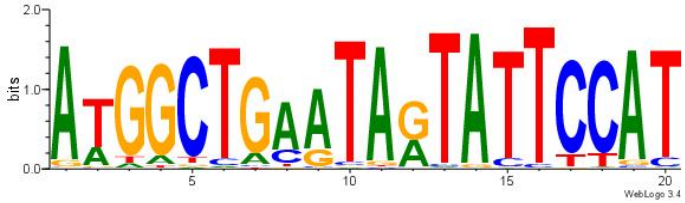

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16

Similarity score: 0.13916

Alignment:
TWTACCTATGTAACAAACCT
---TGTTATGCCTGAAAGT-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

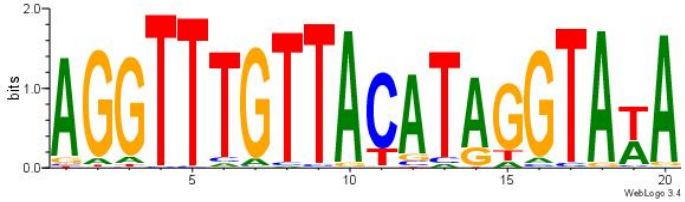

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

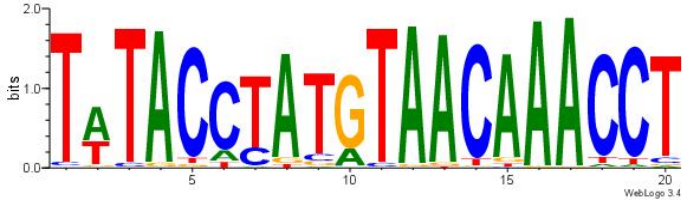

Dataset #: 1 Motif ID: 279 Motif name: Motif 279

Original motif Consensus sequence: GGGGGAGACATCACACR

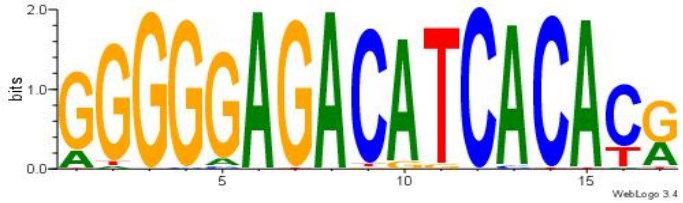

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

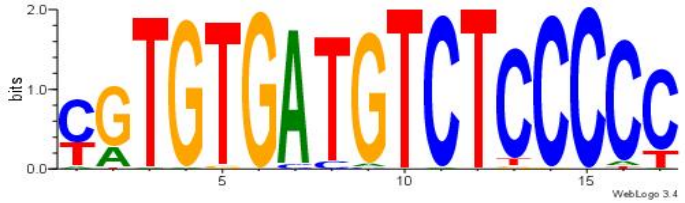

Best Matches for Motif ID 279 (Highest to Lowest)

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.10127

Alignment:

```
TTGGTGGTCTCTTCACA
MGTGTGATGTCTCCCCC
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

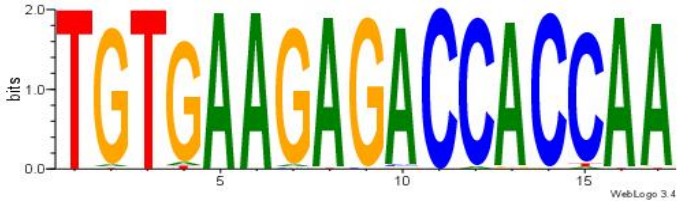

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

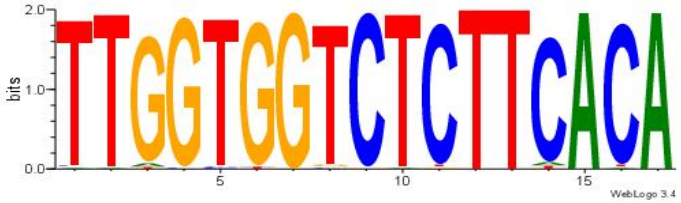

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.103877

Alignment:

GGTGGGGGGGTCAGCCCCC
-MGTGTGATGTCTCCCCC-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

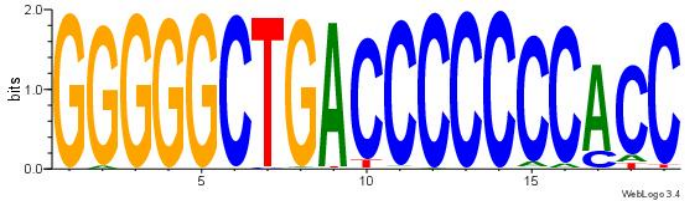

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

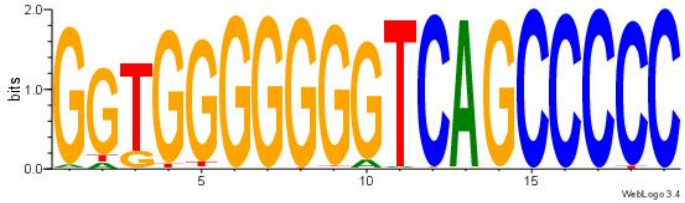

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.104422

Alignment:
HAGTGGKATTGCTGGATCAT
-MGTGTGATGTCTCCCCC--

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

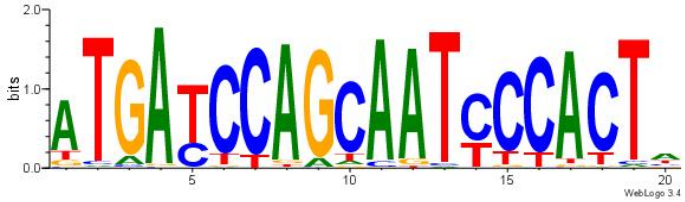

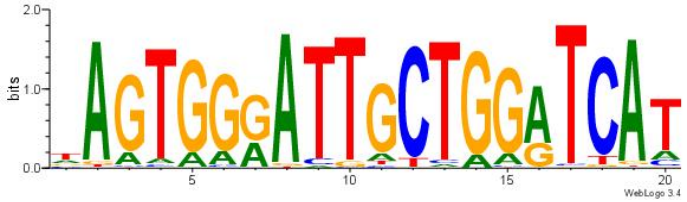

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.106892

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---GGGGGAGACATCACACR
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

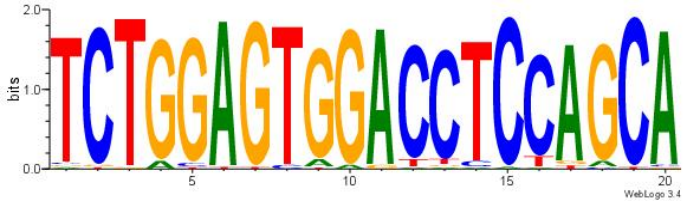

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

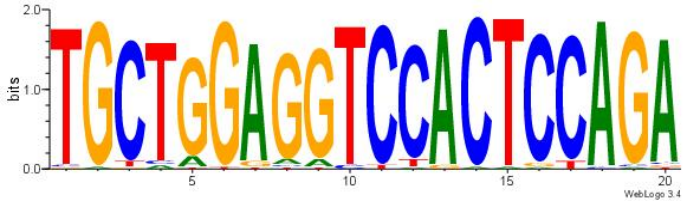

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.107484

Alignment:

```
GTGGCCCTCTTCTCACAGCT
GGGGGAGACATCACACR---
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

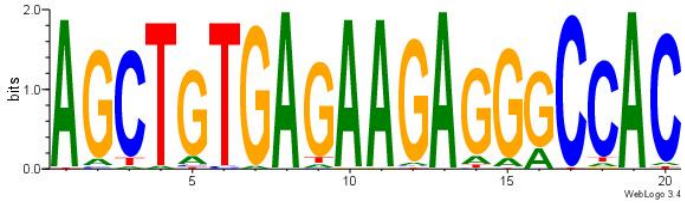

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

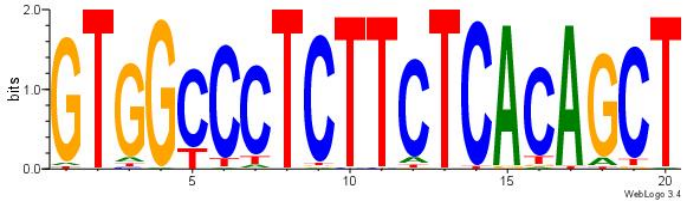

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.107494

Alignment:
GGGAGGGATATATTAGC
GGGGGAGACATCACACR

Original motif Consensus sequence: GGGAGGGATATATTAGC

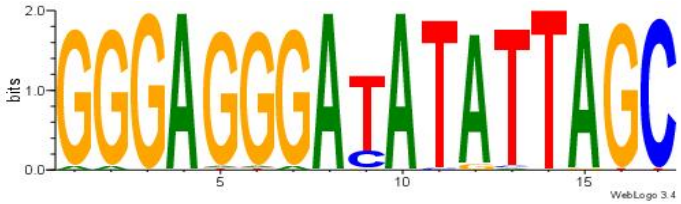

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

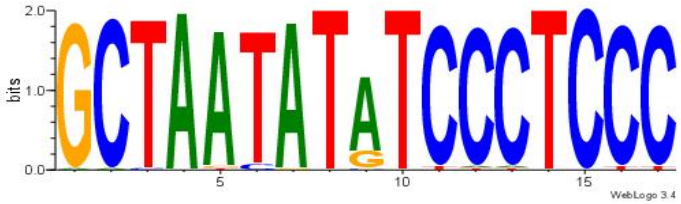

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.110443

Alignment:
TAATTTTATGTGTCAACTTG
-MGTGTGATGTCTCCCCC--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

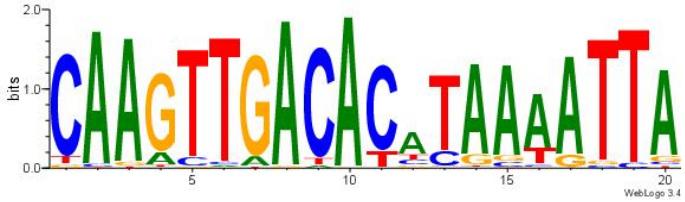

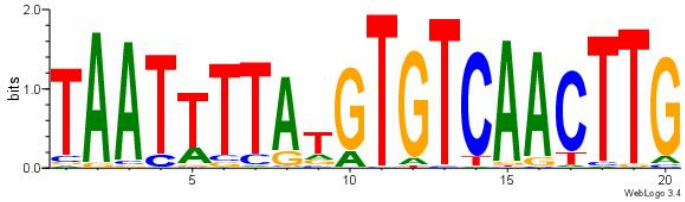

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.111579

Alignment:

```
CTGACTGGGAGACACCTCCC
---MGTGTGATGTCTCCCCC
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

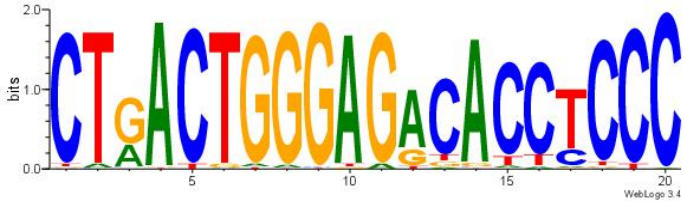

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

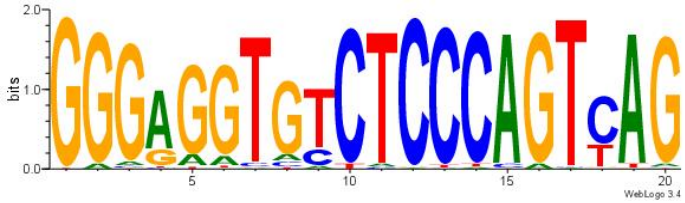

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.112768

Alignment:

```
AAGGAACAAACTCCRGACAC
--GGGGGAGACATCACACR-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

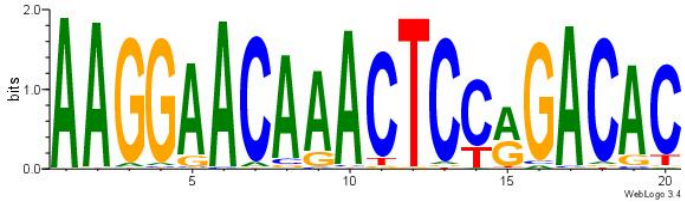

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

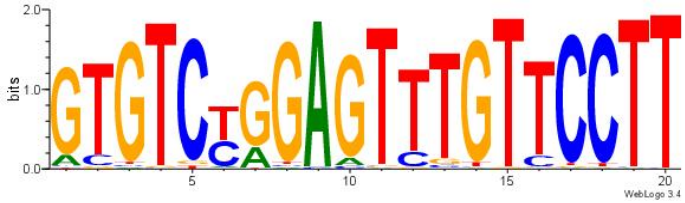

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.115677

Alignment:
CRTGAGCCACYGYRCCYGGC
-GGGGGAGACATCACACR--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

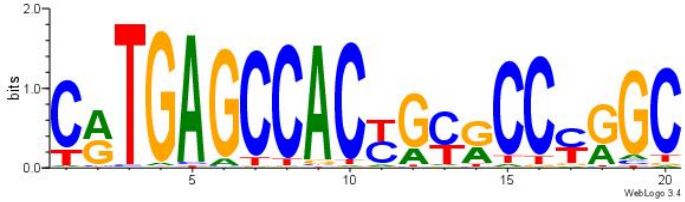

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

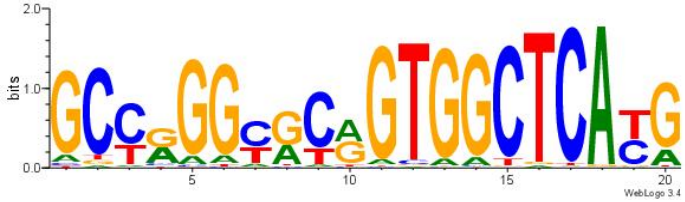

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.116288

Alignment:
GGGATTGTAAATACACCAAT
---GGGGGAGACATCACACR

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

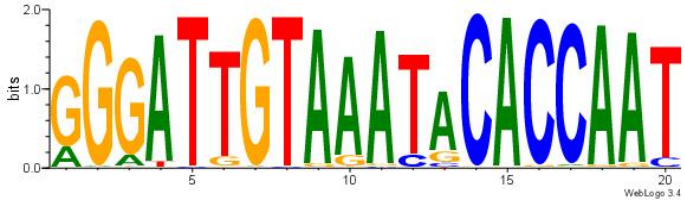

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.116341

Alignment:

```
AAAGCTGGAGCTATTATCTA
---GGGGGAGACATCACACR
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

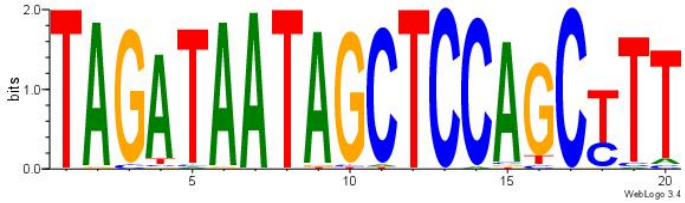

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

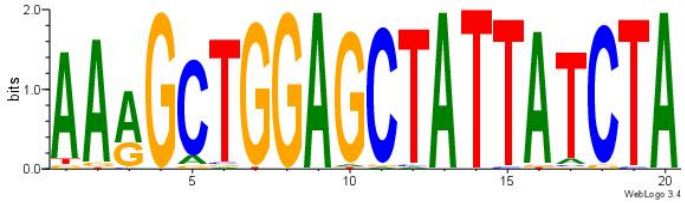

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.117158

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
-MGTGTGATGTCTCCCCC--
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

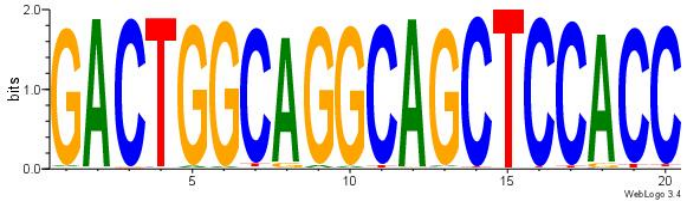

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

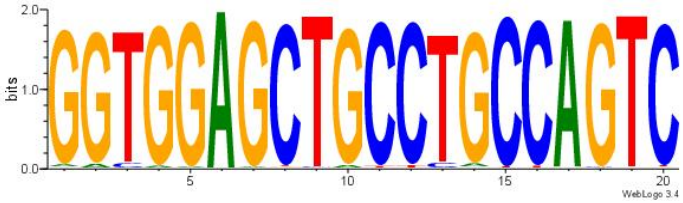

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.117515

Alignment:
TCTCTCTCTCTCTCTCTCTC
-MGTGTGATGTCTCCCCC--

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

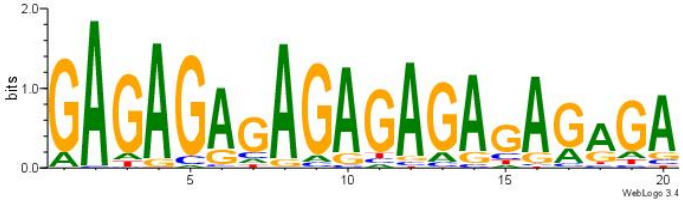

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

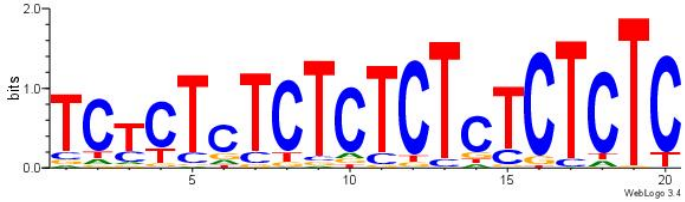

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.117649

Alignment:
GTKTMTATMTACCACATTTT
--GGGGGAGACATCACACR-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

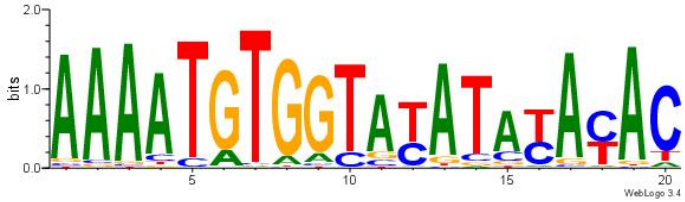

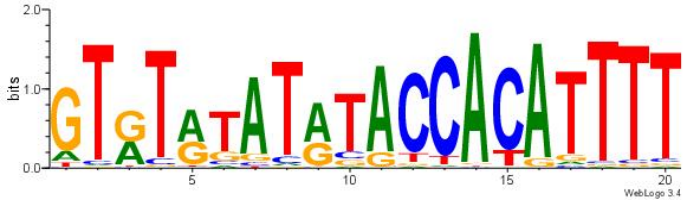

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.118593

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-GGGGGAGACATCACACR--
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

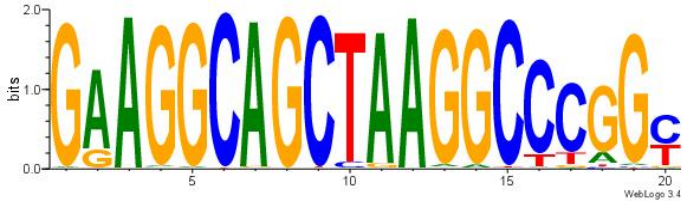

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

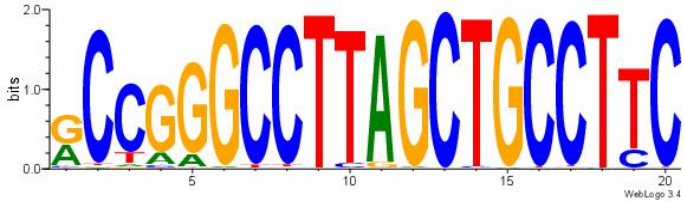

Dataset #:	1

Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.118786

Alignment:

```
GCAGCAMTATTCACAATAG
--GGGGGAGACATCACACR
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

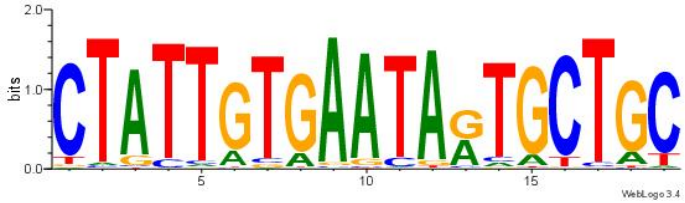

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

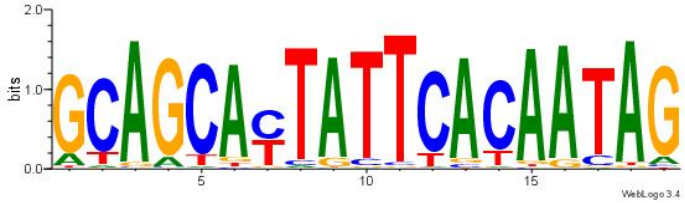

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.119531

Alignment:
CTGGGCRACAGAGYRAGACY
GGGGGAGACATCACACR---

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

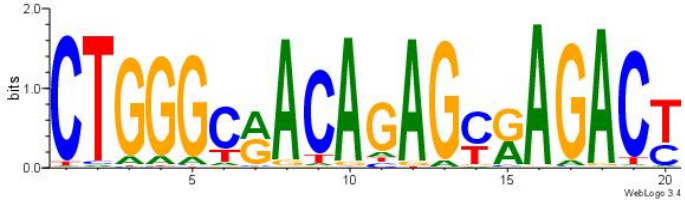

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

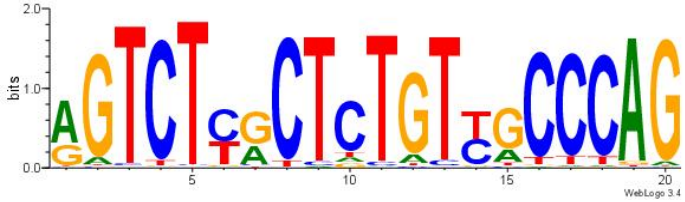

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.120901

Alignment:
ACTGTCTTCCACCTCCACAT
-MGTGTGATGTCTCCCCC--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

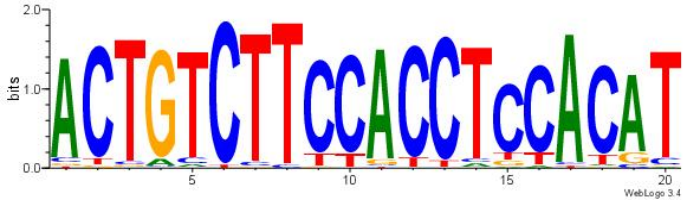

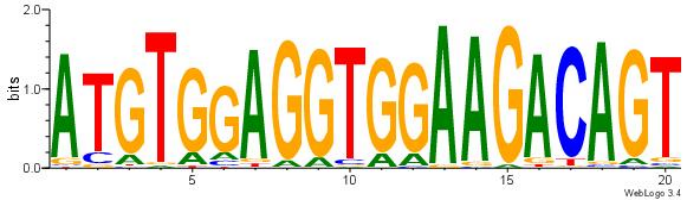

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.12118

Alignment:

```
MGAAGGGACTTGCCTTGT
-GGGGGAGACATCACACR
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

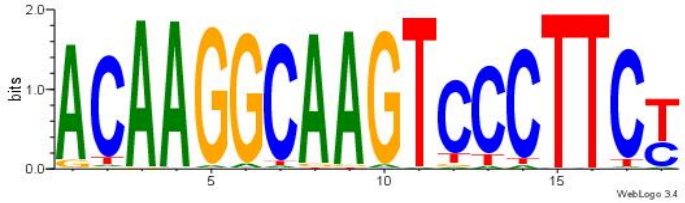

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

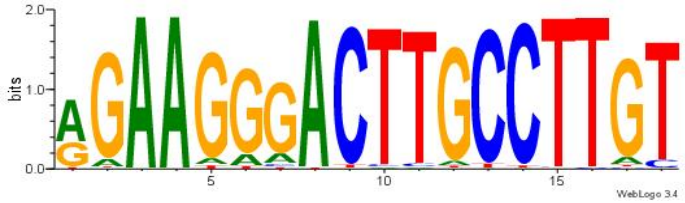

Dataset #:	1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.121968

Alignment:

```
GAAAGGGAACTCCCTGACCC
MGTGTGATGTCTCCCCC---
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

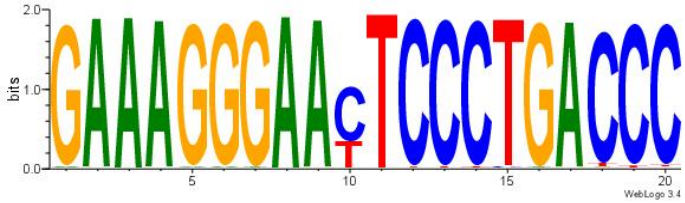

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

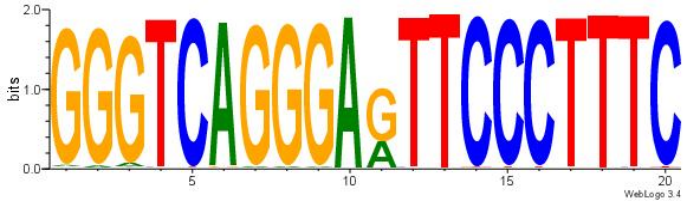

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.122223

Alignment:
GCTGGAGTGCAGTGGCRYGA
--GGGGGAGACATCACACR-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

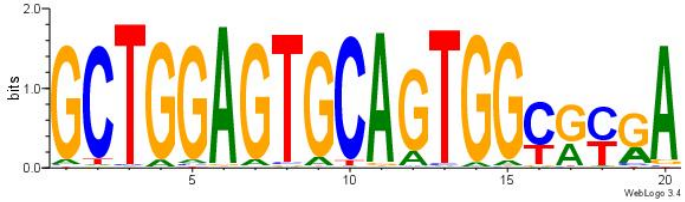

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

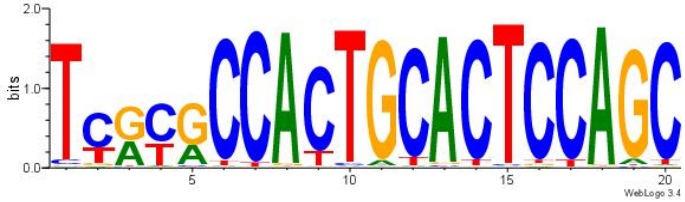

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.123409

Alignment:
ATCTCASAAATCACCACTA
-MGTGTGATGTCTCCCCC-

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

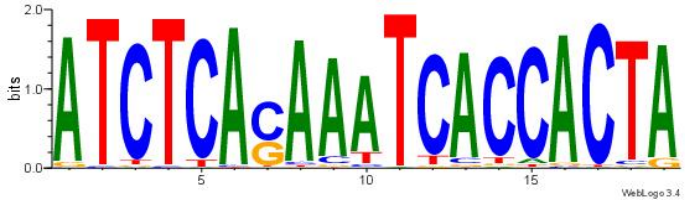

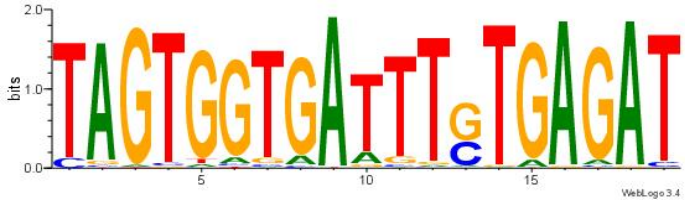

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.123483

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-MGTGTGATGTCTCCCCC--
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

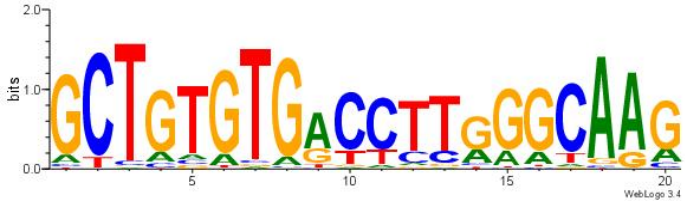

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

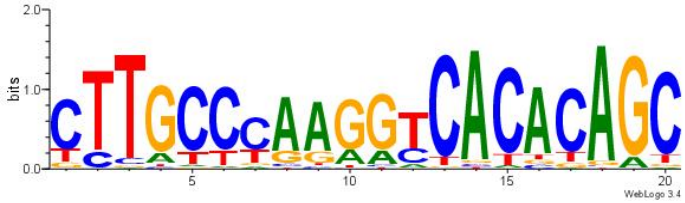

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.123569

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-MGTGTGATGTCTCCCCC--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

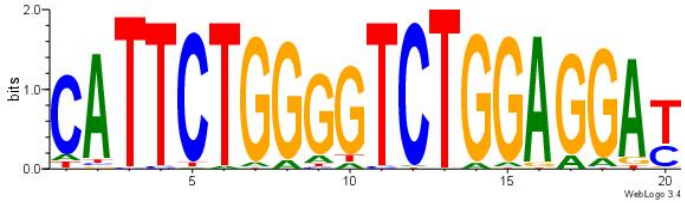

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

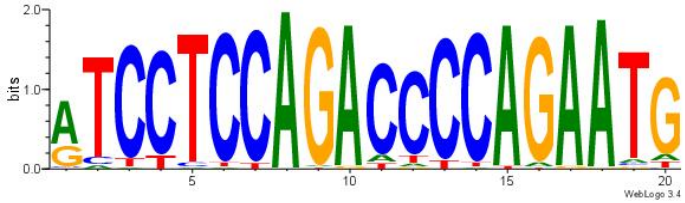

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.123586

Alignment:
AGGAGCGCCTCTKCCCGGC
GGGGGAGACATCACACR--

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

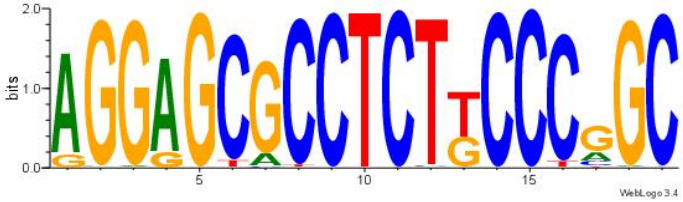

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

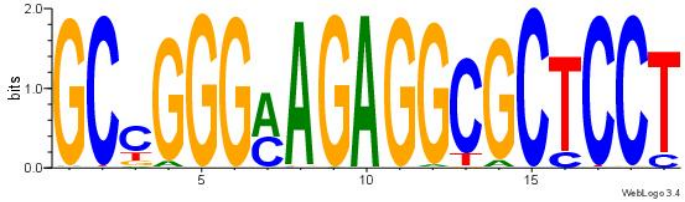

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.124231

Alignment:
AGTGAGAACATRYRRTRTTT
GGGGGAGACATCACACR---

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

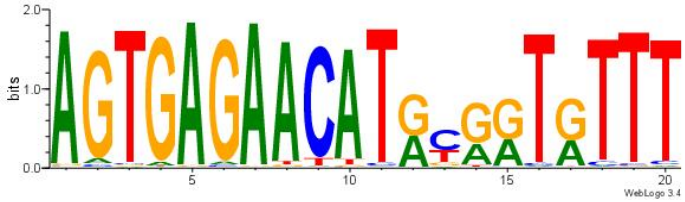

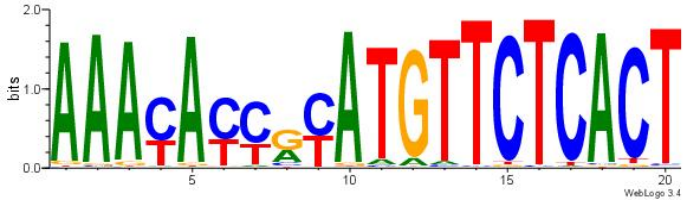

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.124688

Alignment:

```
CACCAGGAGATTATATCCCR
MGTGTGATGTCTCCCCC---
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

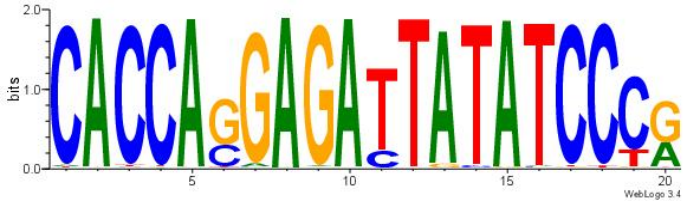

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

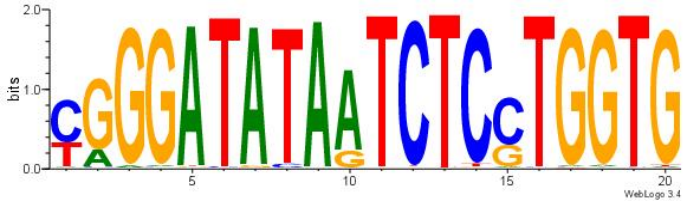

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.126195

Alignment:

```
CAGGTGGTKTTTGGTTACAT
MGTGTGATGTCTCCCCC---
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

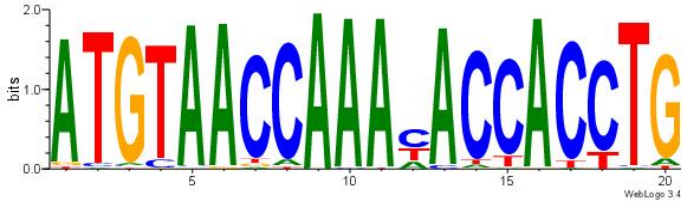

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

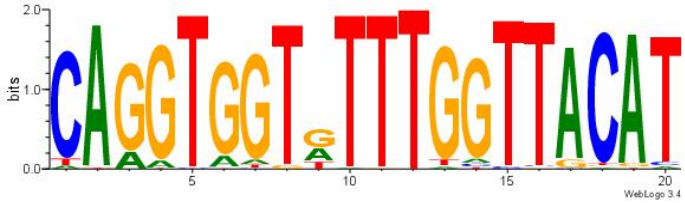

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.128713

Alignment:
GGTCAGGATCATCAATAT
GGGGGAGACATCACACR-

Original motif Consensus sequence: ATATTGATGATCCTGACC

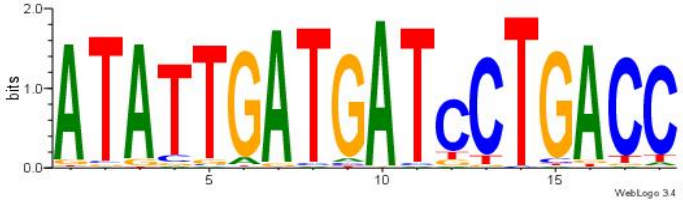

Reverse complement motif Consensus sequence:
GGTCAGGATCATCAATAT

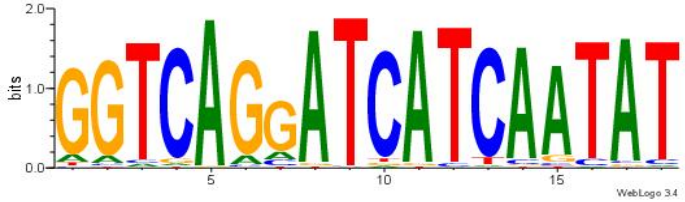

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.12877

Alignment:
AATGAKATCATGTCYTTTGC
---MGTGTGATGTCTCCCCC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

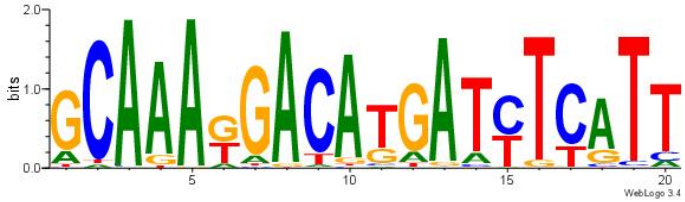

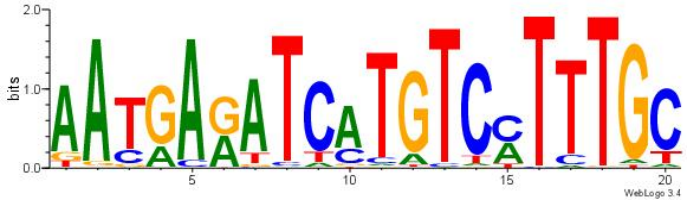

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.129469

Alignment:

```
TGGAGAACCTTTATGTCTAG
---GGGGGAGACATCACACR
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

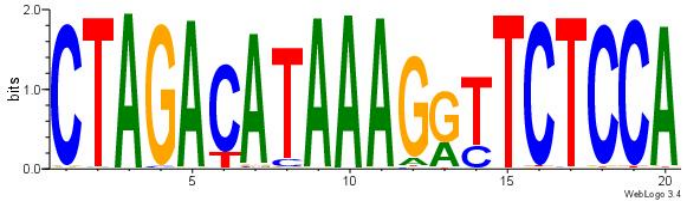

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

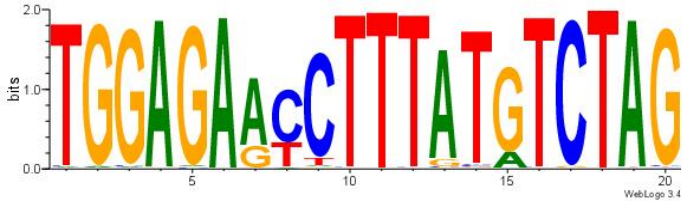

Dataset #:	1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.12979

Alignment:

```
AAAGTGCCGAGAKTGCAGC
--GGGGGAGACATCACACR
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

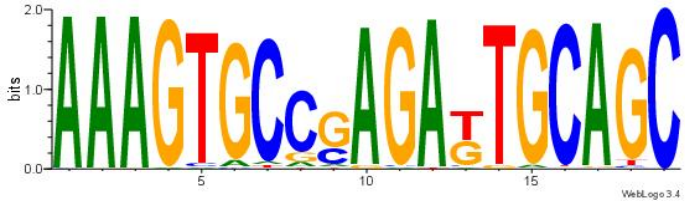

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

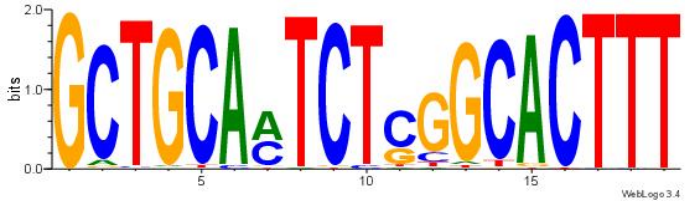

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.129923

Alignment:
CCCMKGGCACCCTCAGTCCT
--GGGGGAGACATCACACR-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

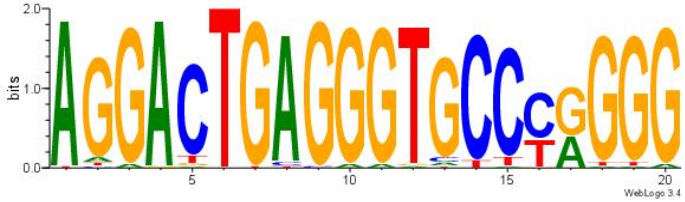

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

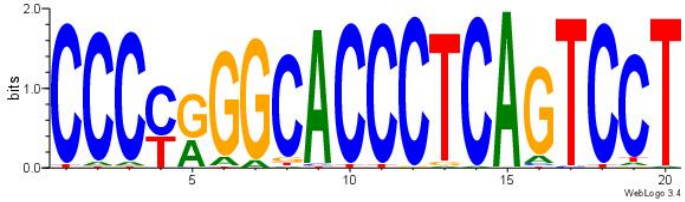

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.130259

Alignment:
CMTAGYACAGTGCCTGGCAC
---MGTGTGATGTCTCCCCC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

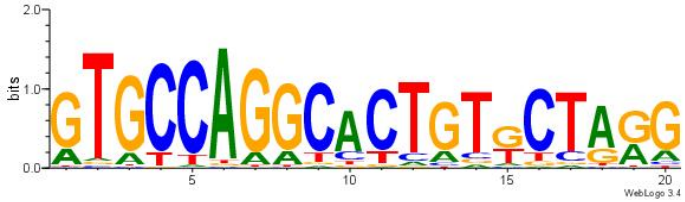

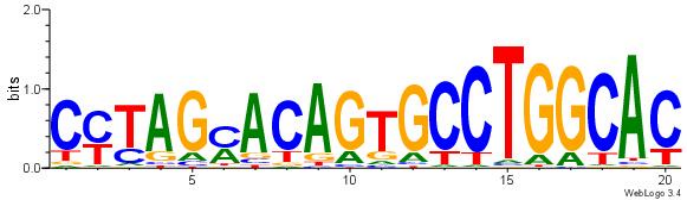

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.130876

Alignment:

```
TTGGTAGGATCCGTGATGCC
---GGGGGAGACATCACACR
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

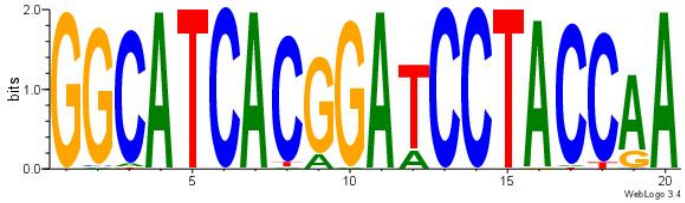

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

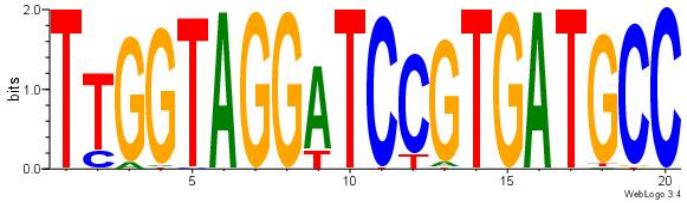

Dataset #:	1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.131495

Alignment:

```
AAGAGGTTTAATTGRCTCA
--GGGGGAGACATCACACR
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

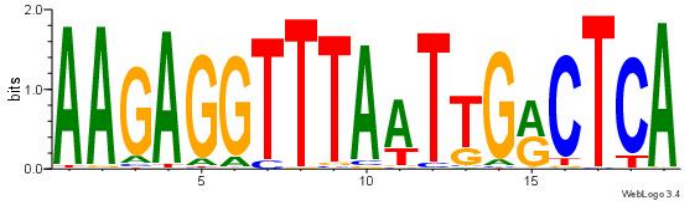

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

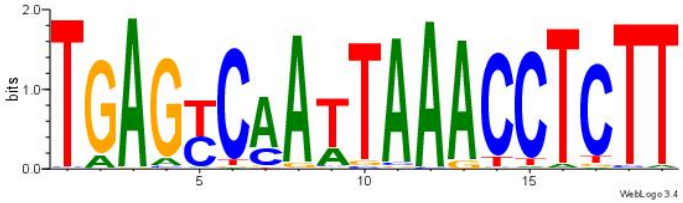

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.131544

Alignment:
CAAGCCTSKGCAATGGCAGG
GGGGGAGACATCACACR---

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

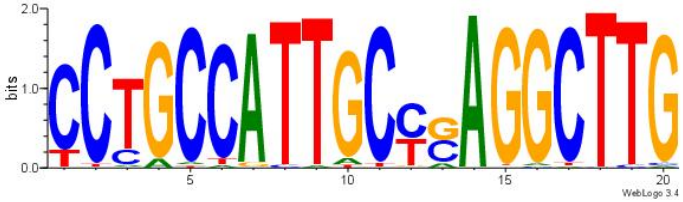

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

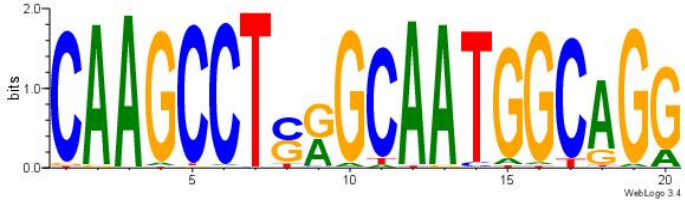

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.13253

Alignment:
AGTGACCCGATTTTCCAGGT
MGTGTGATGTCTCCCCC---

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

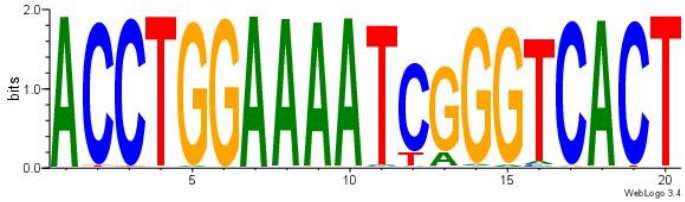

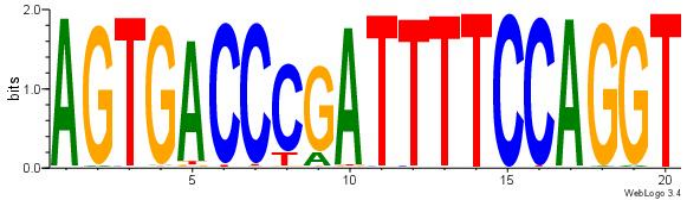

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.132712

Alignment:

```
AGAGCTCTGGCTGGCATCT
MGTGTGATGTCTCCCCC--
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

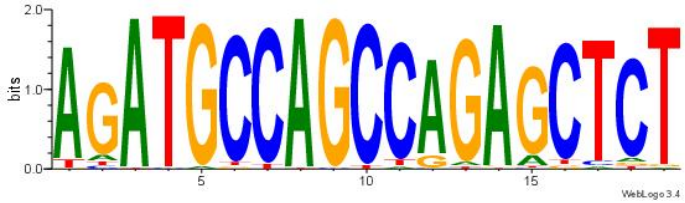

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

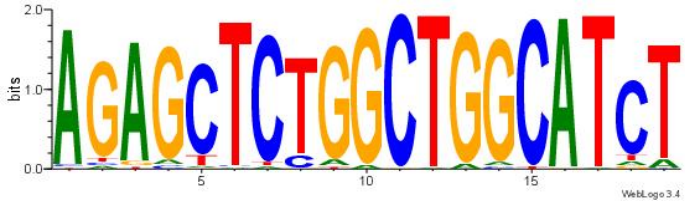

Dataset #: 1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.132746

Alignment:
CGAGCCCTGCCCCGCGG
MGTGTGATGTCTCCCCC

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

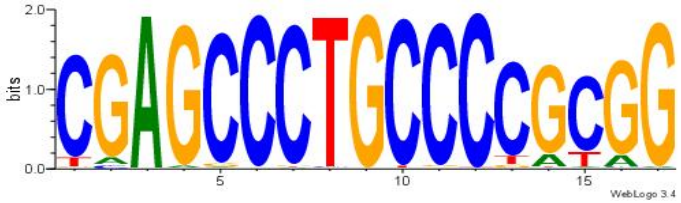

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

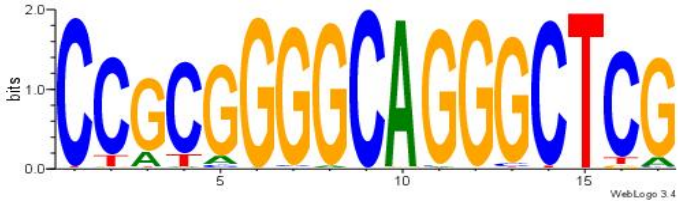

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.133644

Alignment:
GTTGTGAGGATTAAATGAG
MGTGTGATGTCTCCCCC--

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

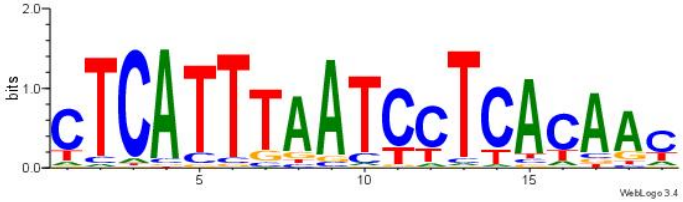

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

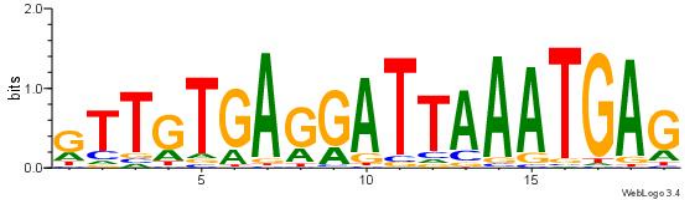

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.133885

Alignment:
GACAGGAGATTAACACTGAG
---GGGGGAGACATCACACR

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

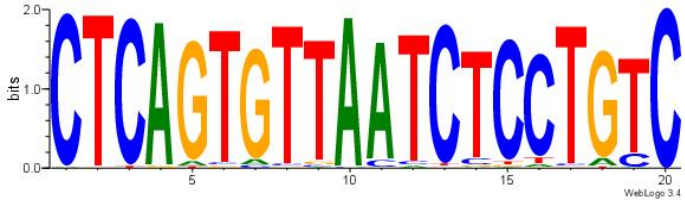

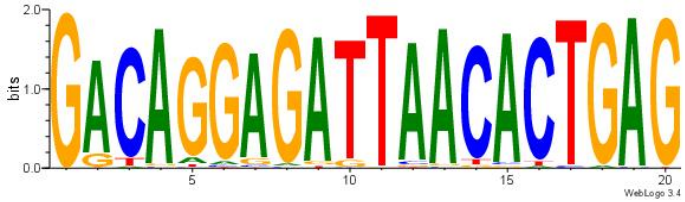

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.13406

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
--MGTGTGATGTCTCCCCC-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

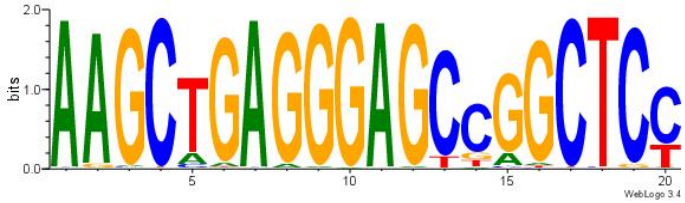

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

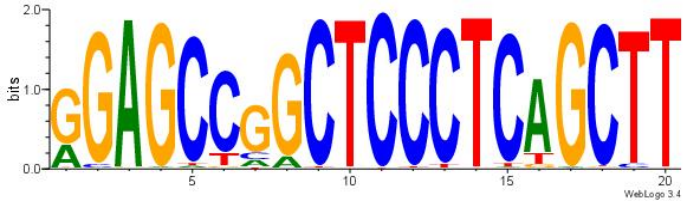

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.134362

Alignment:

```
GCCAGGCAGAGRGKCTCCT
MGTGTGATGTCTCCCCC--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

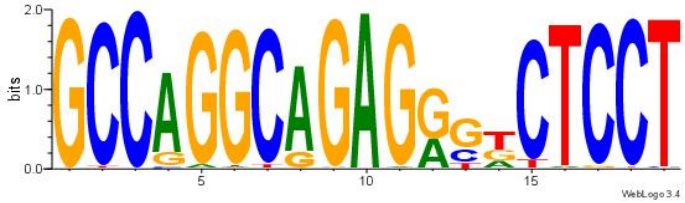

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

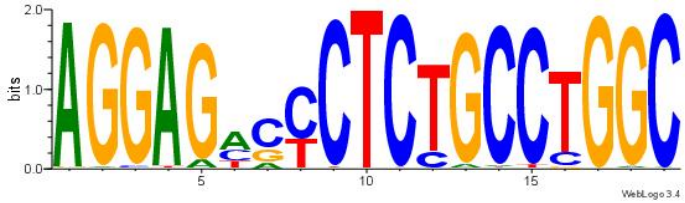

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.134573

Alignment:
AGTAGGTGCTCARTAAATRB
--GGGGGAGACATCACACR-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

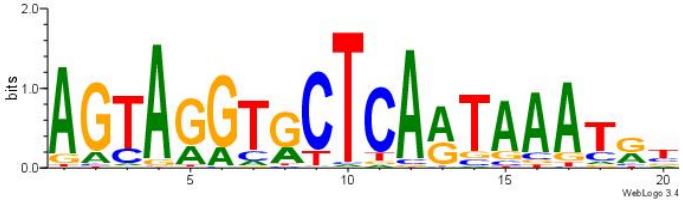

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

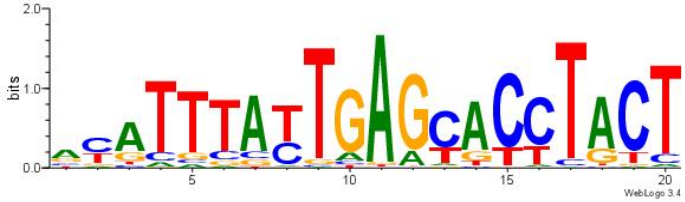

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.13485

Alignment:
CTTGGGTGGTCGATGGGAC
MGTGTGATGTCTCCCCC--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

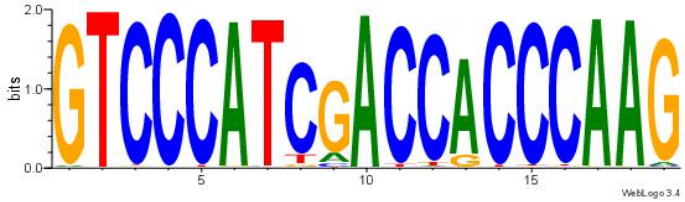

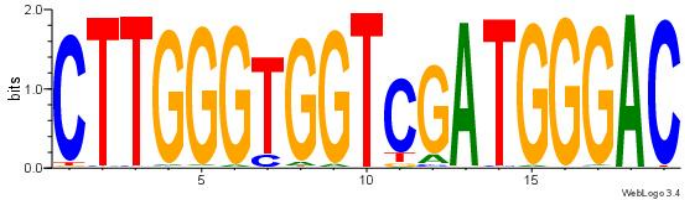

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.135778

Alignment:

```
AGGAGCCCCTCHGCCCR
GGGGGAGACATCACACR
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

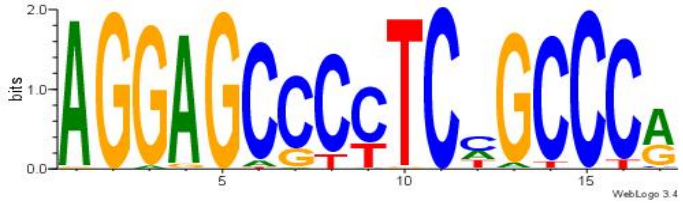

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

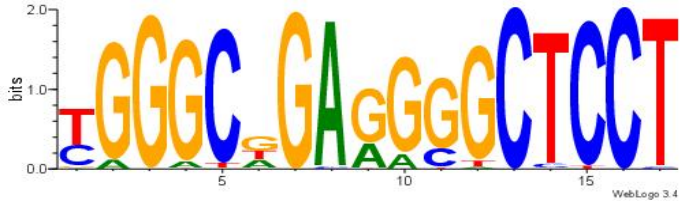

Dataset #:	1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.135948

Alignment:

```
AGGAGGAAGTCAATTTC
MGTGTGATGTCTCCCCC
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

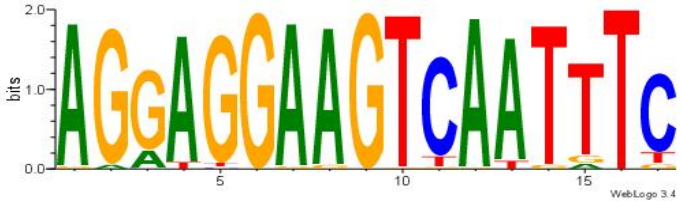

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

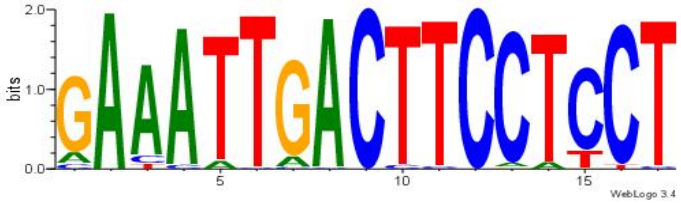

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.136079

Alignment:
ATGGAATAYTATTCAGCCAT
GGGGGAGACATCACACR---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

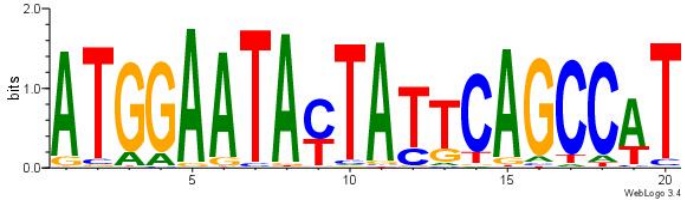

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

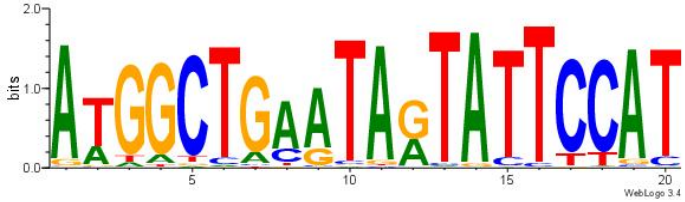

Dataset #: 1 Motif ID: 280 Motif name: Motif 280

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

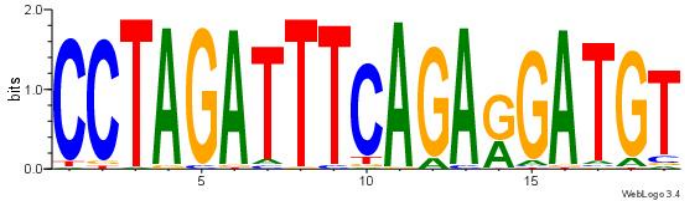

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

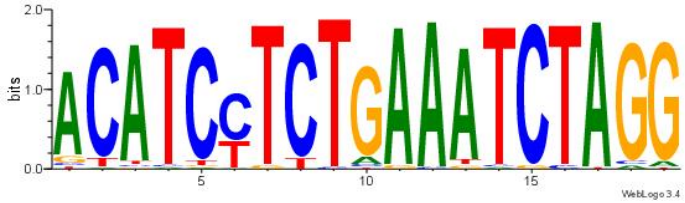

Best Matches for Motif ID 280 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.098089

Alignment:

```
TCKMGCCACTGCACTCCAGC
-ACATCMTCTGAAATCTAGG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

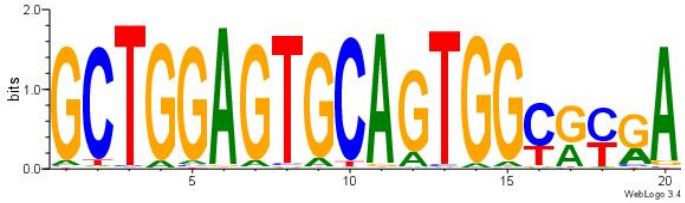

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

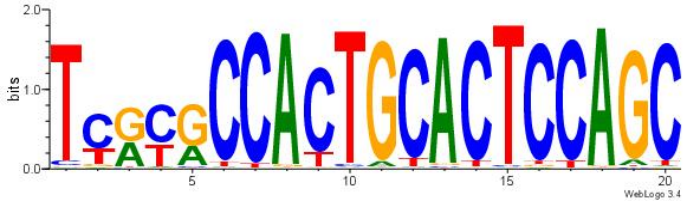

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.110835

Alignment:

CAAGCCTSKGCAATGGCAGG
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

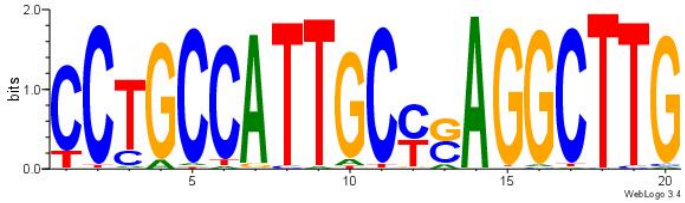

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

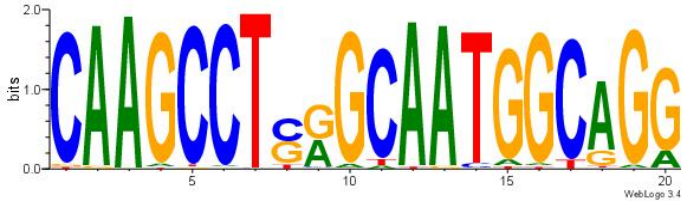

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112769

Alignment:
ACCCAATWTGTAGTCTTTTA
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

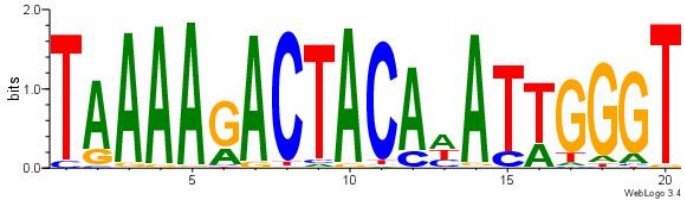

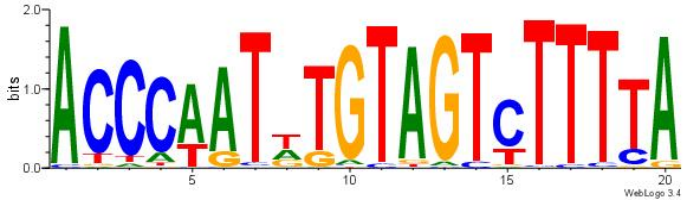

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.114054

Alignment:
GACAGGAGATTAACACTGAG
-ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

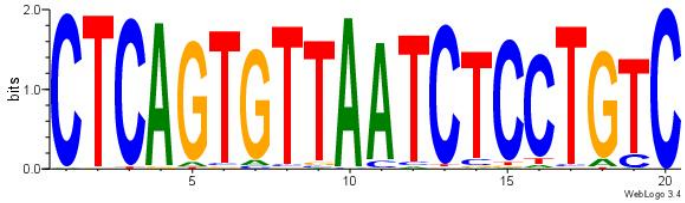

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

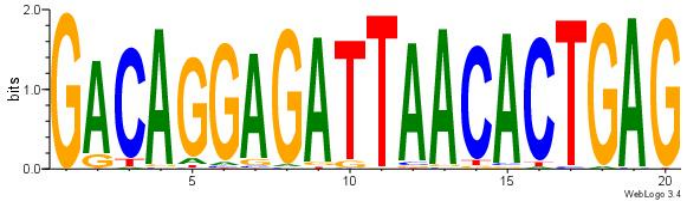

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.114945

Alignment:
GAATCCTGGGACAGCCTGT
ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

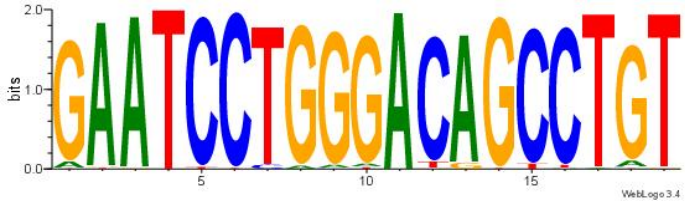

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

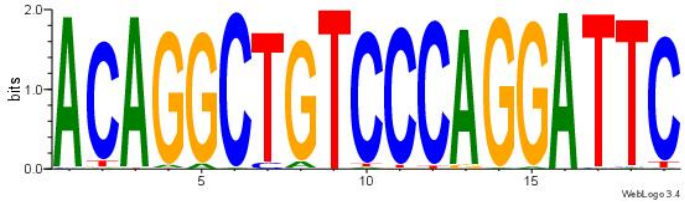

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.115063

Alignment:
CAAASCKGTCATAGGCCAT
CCTAGATTTCAGARGATGT

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

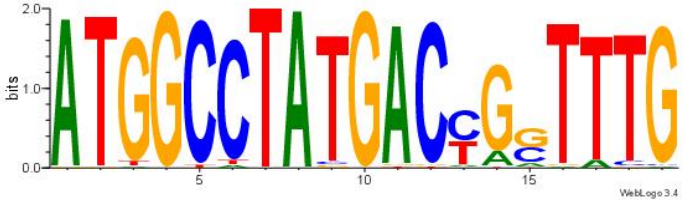

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

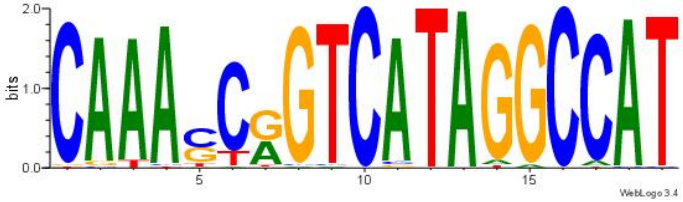

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.116073

Alignment:
TCCAAATGGGAGAAATTGGC
CCTAGATTTCAGARGATGT-

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

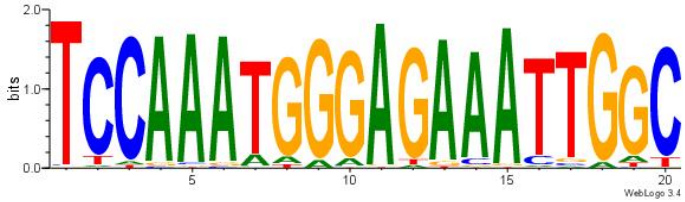

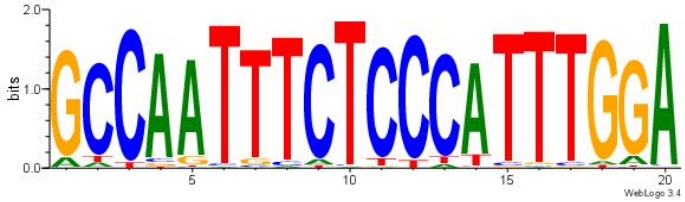

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.116197

Alignment:

```
ATTCAASATGAGATTTGGG
ACATCMTCTGAAATCTAGG
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

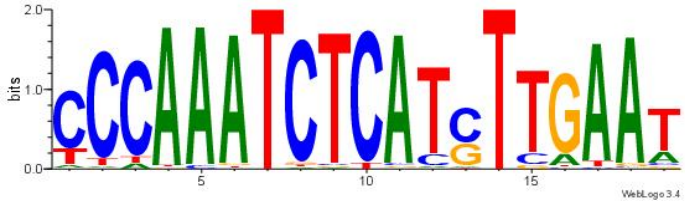

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

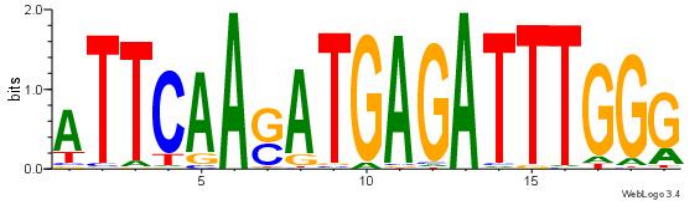

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.118243

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-ACATCMTCTGAAATCTAGG
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

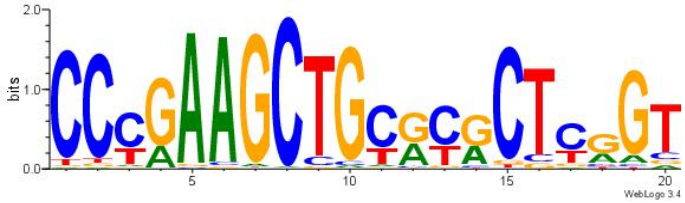

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

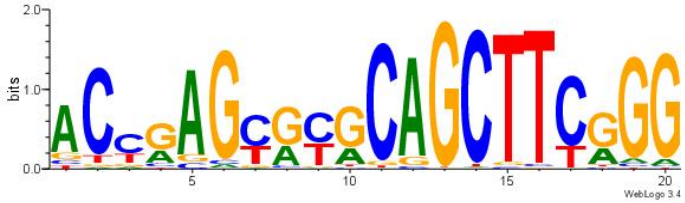

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.120574

Alignment:
CAGCTACTCKTATACCCTTG
-ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

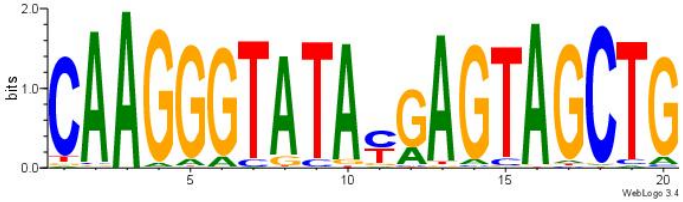

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

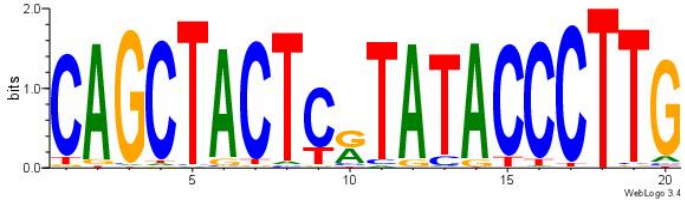

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.126639

Alignment:
AGTAGGTGCTCARTAAATRB
-CCTAGATTTCAGARGATGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

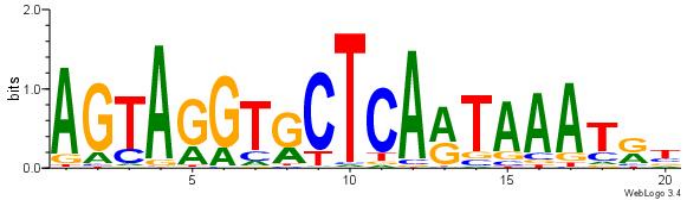

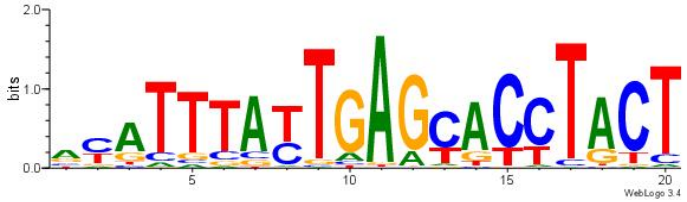

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127777

Alignment:

AACCCTATTGTGAACTGYG

ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

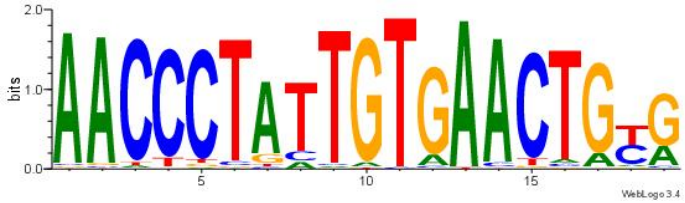

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

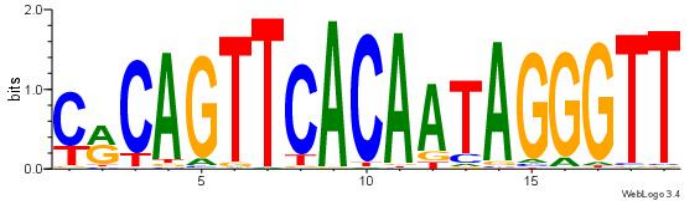

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.128506

Alignment:

```
ATAGGAATGCTTGTGATTTT
-CCTAGATTTCAGARGATGT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

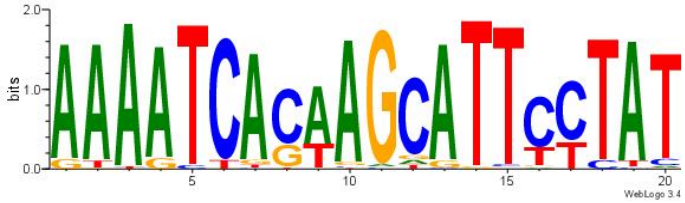

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

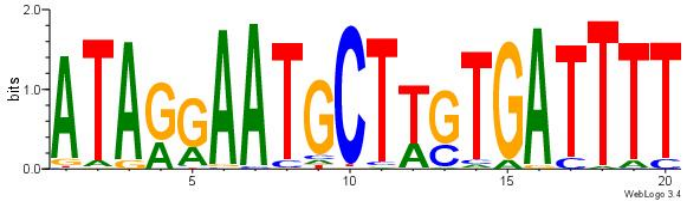

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.129072

Alignment:
CGCCCATCGTCTGGGATGT
CCTAGATTTCAGARGATGT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

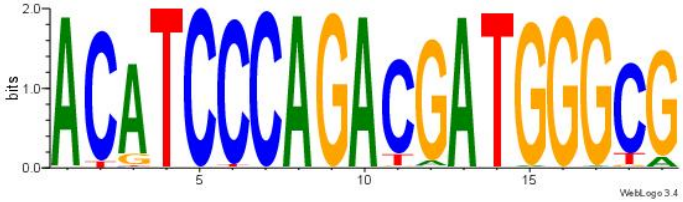

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

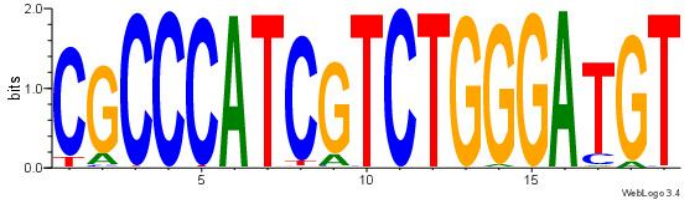

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.130163

Alignment:
GAAHCAACCKAAKTGTCCAT
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

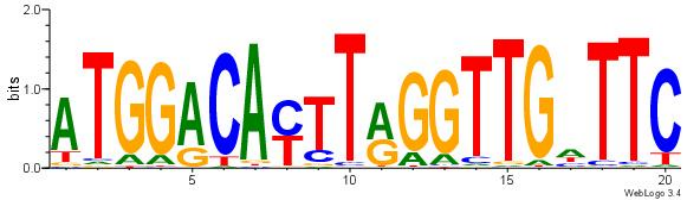

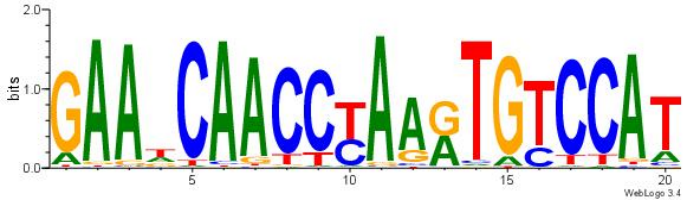

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.13129

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-ACATCMTCTGAAATCTAGG
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

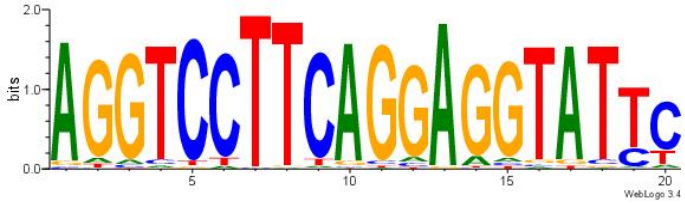

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

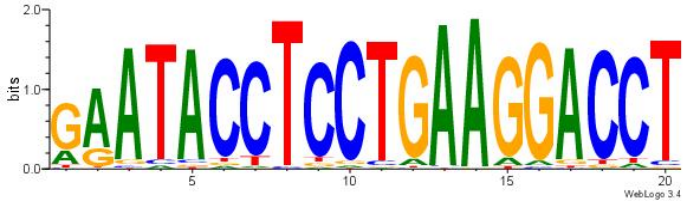

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.131353

Alignment:

```
GCCAGTCACAAAARGACAMA
CCTAGATTTCAGARGATGT-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

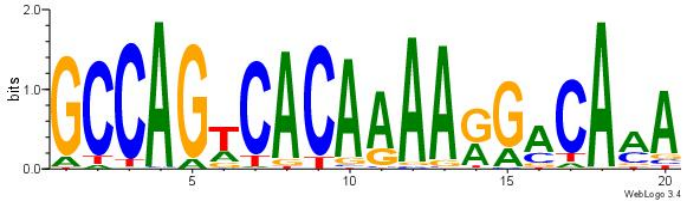

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

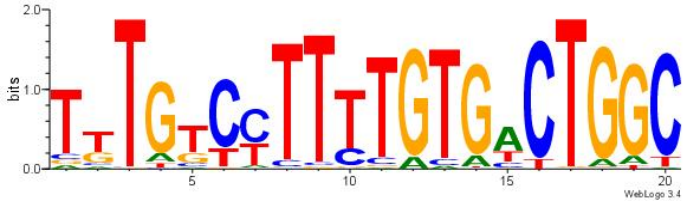

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.133471

Alignment:
GCACATGTAYCCYAGAACTT
-CCTAGATTTCAGARGATGT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

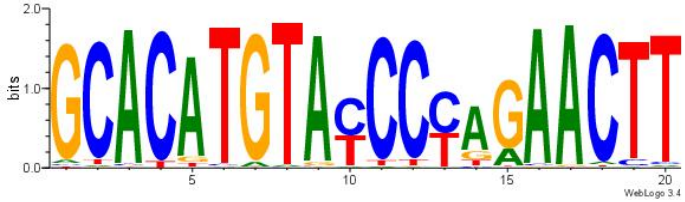

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

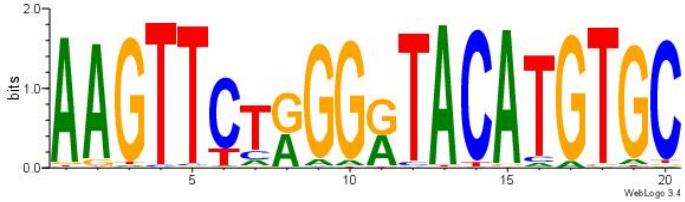

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.133709

Alignment:
AAGAGGTTTAATTGRCTCA
CCTAGATTTCAGARGATGT

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

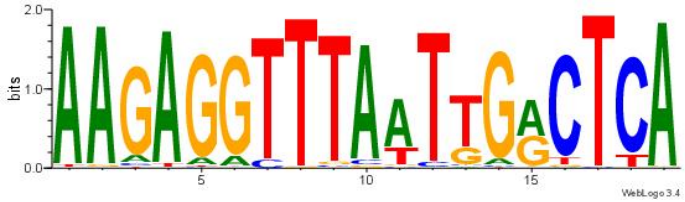

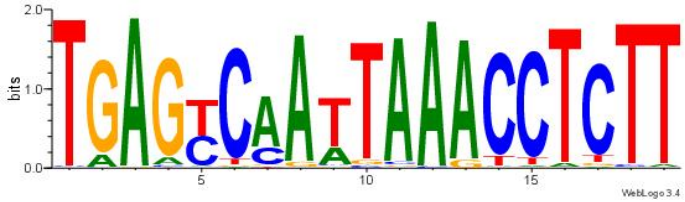

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.133794

Alignment:

```
ATGTGGAGGTGGAAGACAGT
CCTAGATTTCAGARGATGT-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

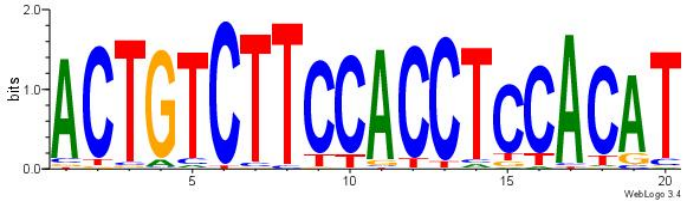

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

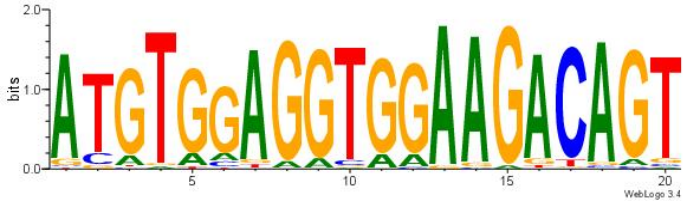

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.133995

Alignment:

```
GTKTMTATMTACCACATTTT
CCTAGATTTCAGARGATGT-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

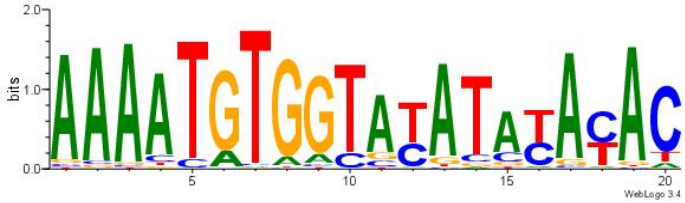

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

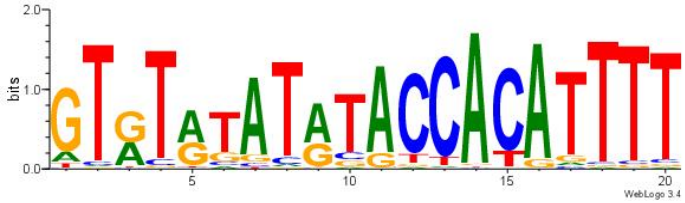

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.135143

Alignment:
TTGTCCCACTGGAAGGTCTT
-ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

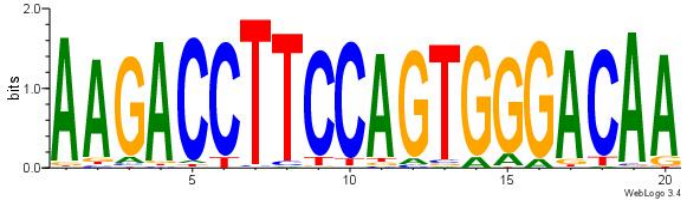

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

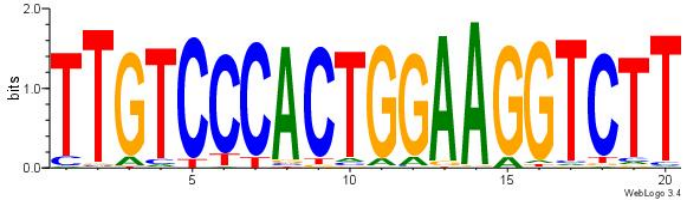

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.135764

Alignment:
CACCAGACTCAGGAGCCCAG
CCTAGATTTCAGARGATGT-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

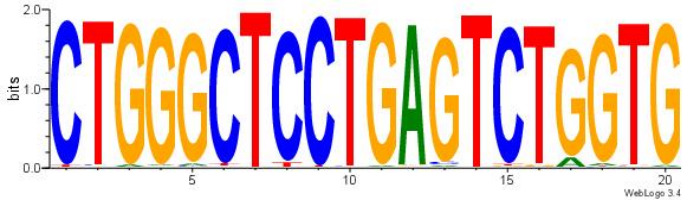

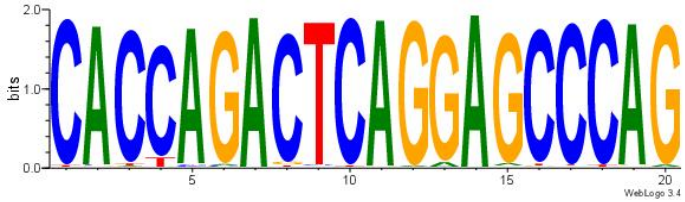

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137118

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-ACATCMTCTGAAATCTAGG
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

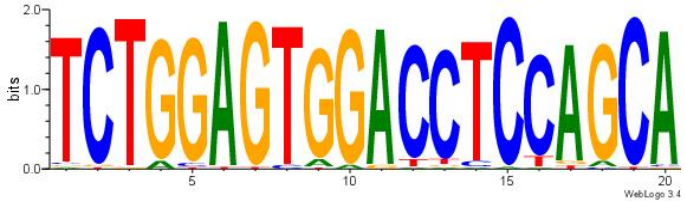

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

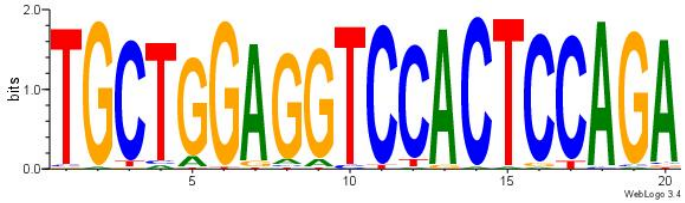

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.137186

Alignment:

```
GGTTCATCTCACTAGGGAGT
CCTAGATTTCAGARGATGT-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

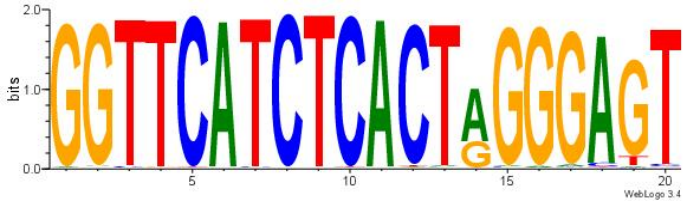

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

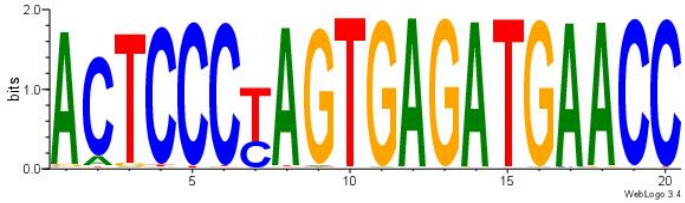

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.137927

Alignment:
TGTGTGTGTGTKTGTGTGT
CCTAGATTTCAGARGATGT

Original motif Consensus sequence: ACACACAYACACACACACA

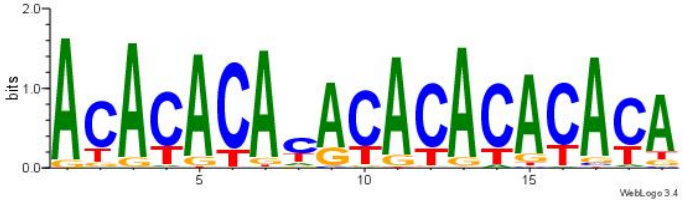

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

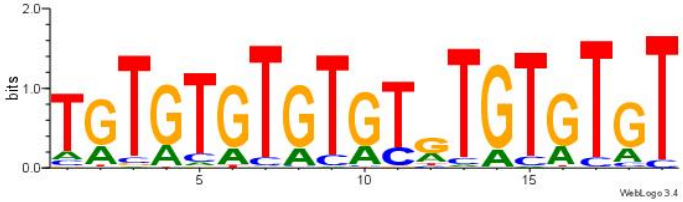

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.138143

Alignment:
TWTACCTATGTAACAAACCT
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

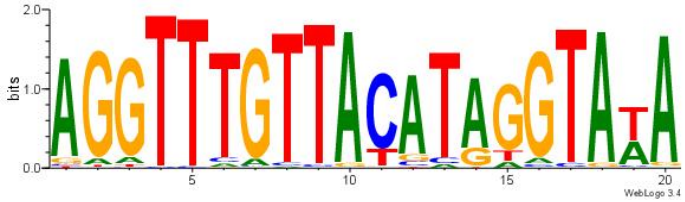

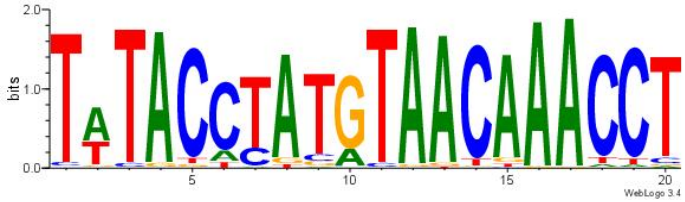

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.13818

Alignment:

```
AGTGACCCGATTTTCCAGGT
ACATCMTCTGAAATCTAGG-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

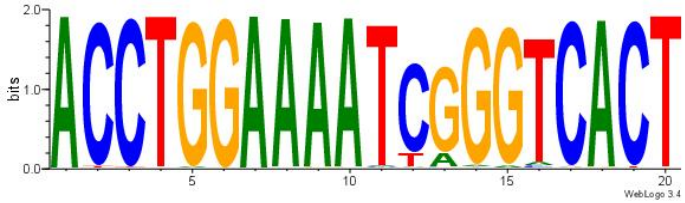

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

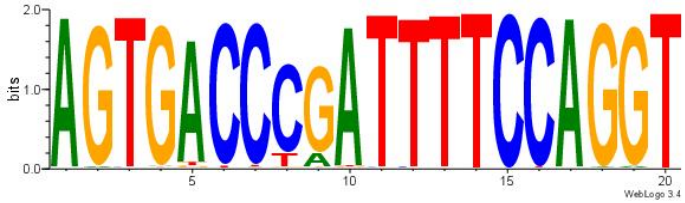

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138963

Alignment:

```
TACCTGAGACTGGGTAATTT
CCTAGATTTCAGARGATGT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

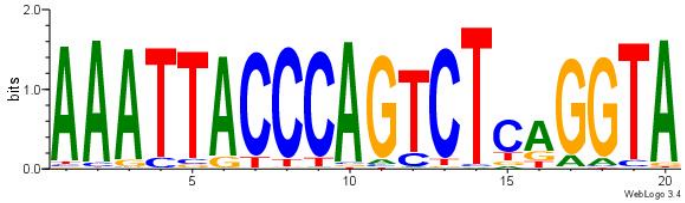

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

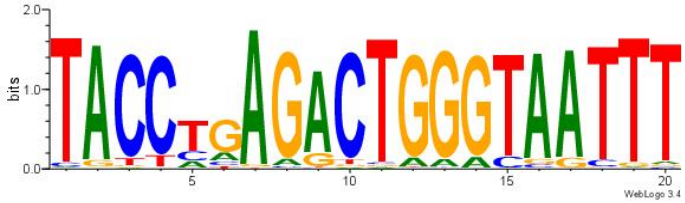

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.140094

Alignment:
CCACCACAGCTCAAGGAGGC
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

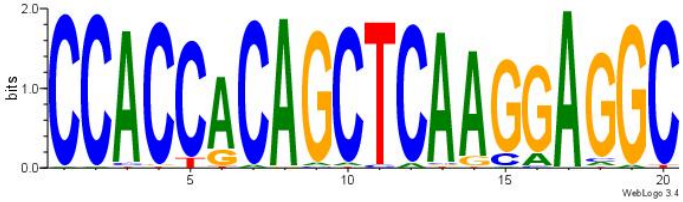

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

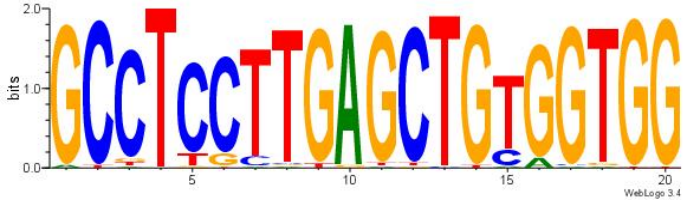

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.140262

Alignment:
AGTGAGAACATRYRRTRTTT
-CCTAGATTTCAGARGATGT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

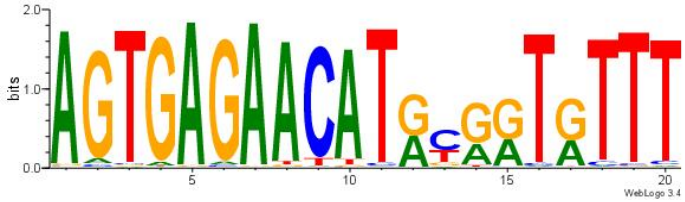

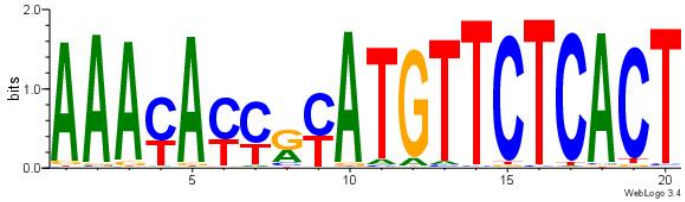

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.140686

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
CCTAGATTTCAGARGATGT-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

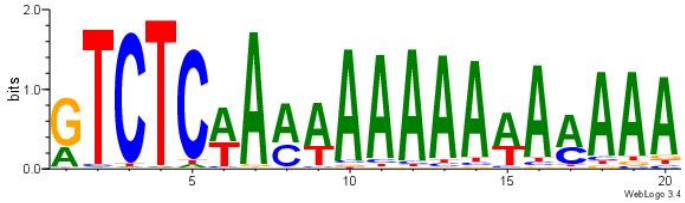

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

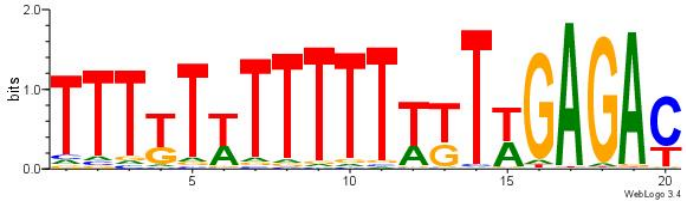

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141035

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
ACATCMTCTGAAATCTAGG-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

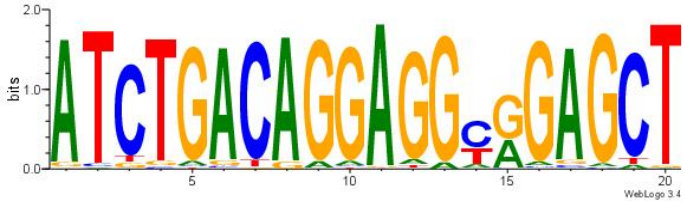

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

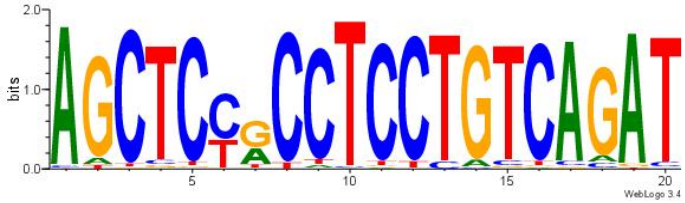

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.141649

Alignment:
AAAAGTCCACAGTCCAAAGT
-ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

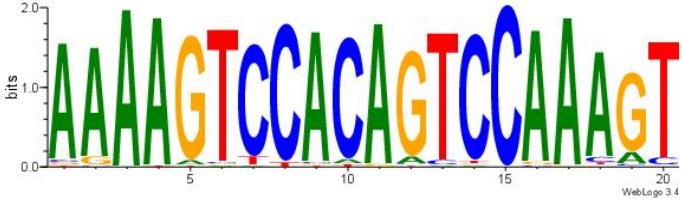

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

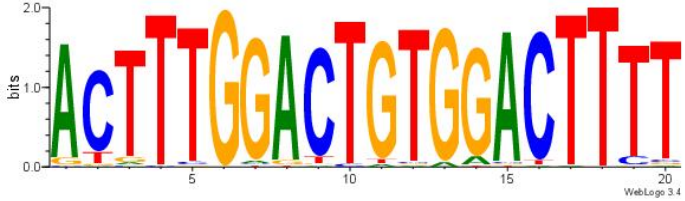

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.14178

Alignment:
KCCGGGCCTTAGCTGCCTTC
-CCTAGATTTCAGARGATGT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

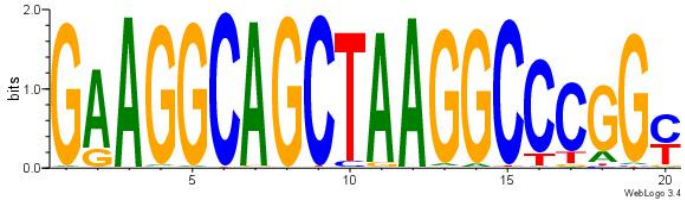

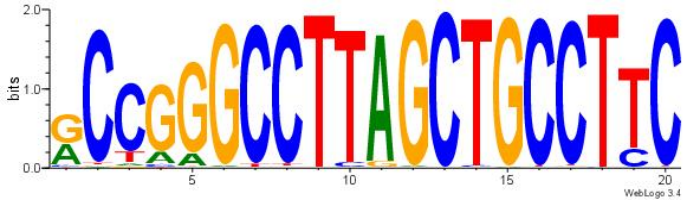

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.14206

Alignment:

```
AGGCTGTTTTACAGTTAAC
ACATCMTCTGAAATCTAGG
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

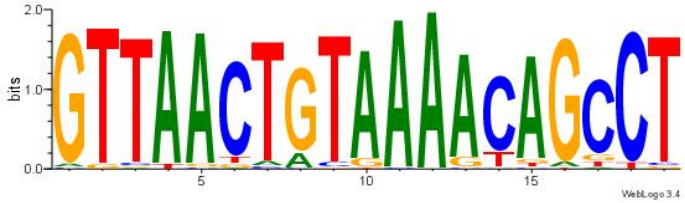

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

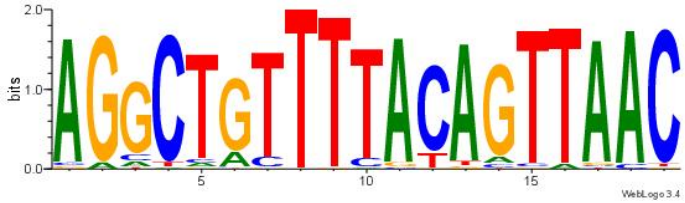

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142296

Alignment:

GCCGTTTKTTAAGCCCGTY

ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

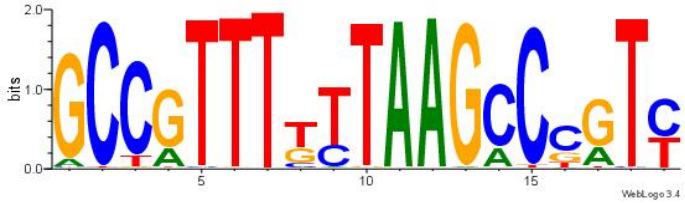

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

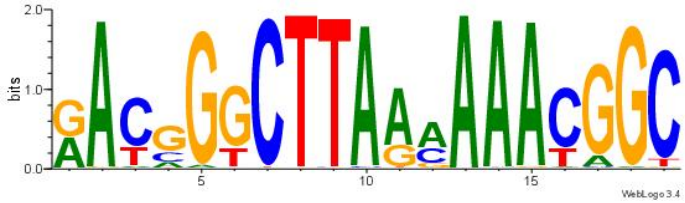

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.142339

Alignment:
GCTGGCCCGCAAGCGCCGCG
CCTAGATTTCAGARGATGT-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

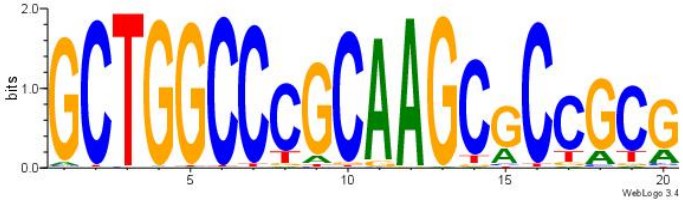

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

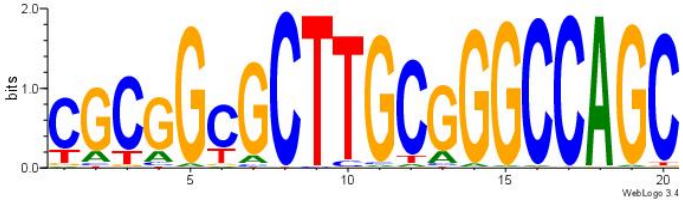

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.142618

Alignment:
GCGCTCKTCGGGGAGGCTCG
CCTAGATTTCAGARGATGT-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

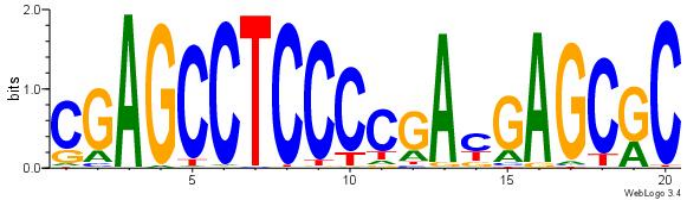

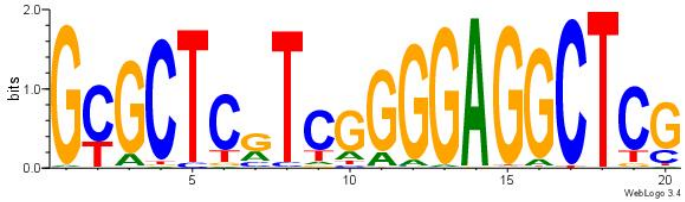

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142679

Alignment:

```
AGTTGTAATTGGGAGACTT
CCTAGATTTCAGARGATGT
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

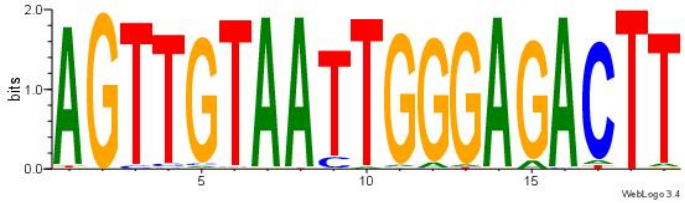

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

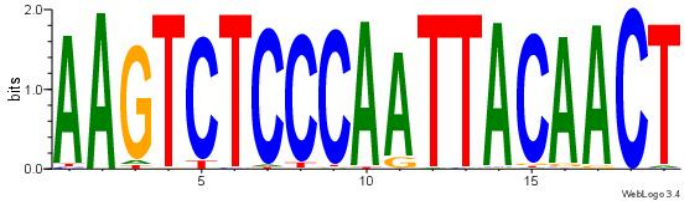

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142848

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
ACATCMTCTGAAATCTAGG-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

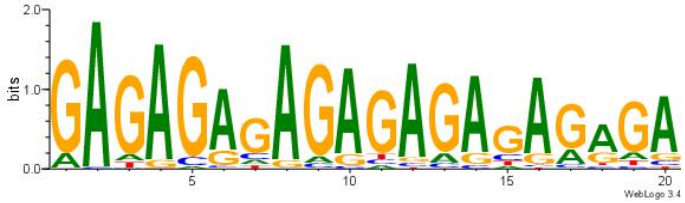

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

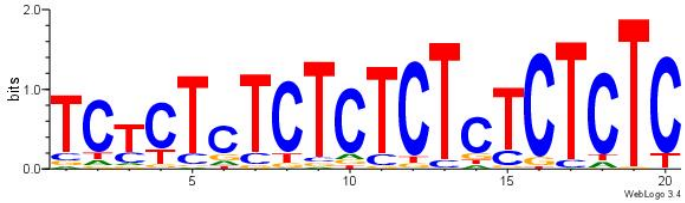

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.145011

Alignment:
AGCTCCCAGCGTGAGCGACG
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

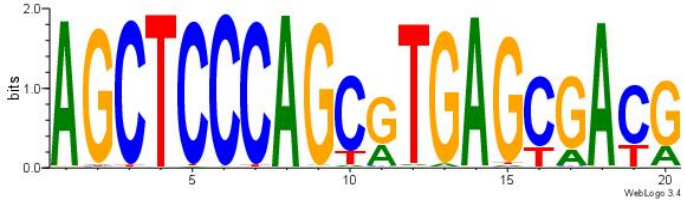

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

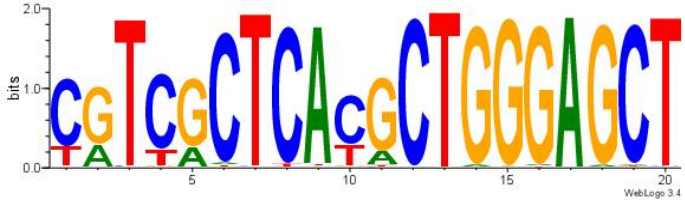

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.14512

Alignment:
GTCCCATCGACCACCCAAG
ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

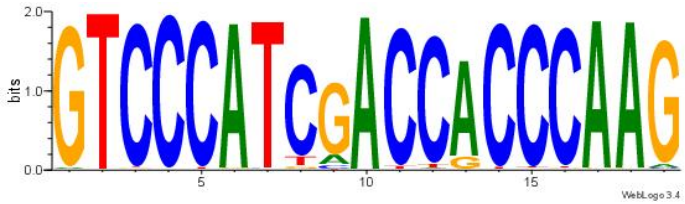

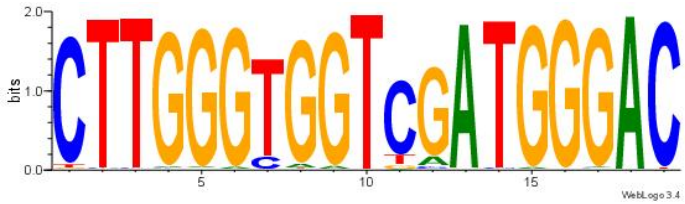

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.145662

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
ACATCMTCTGAAATCTAGG-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

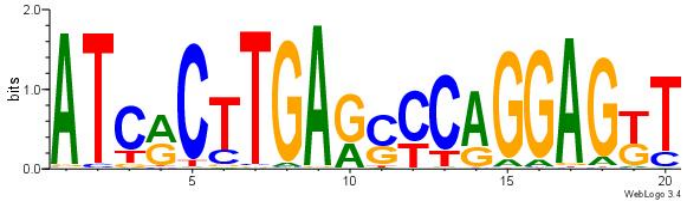

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

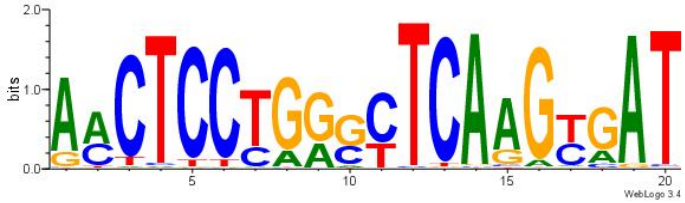

Dataset #:	1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.14608

Alignment:

GCCACCAMGCCMKGCTAAT

ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

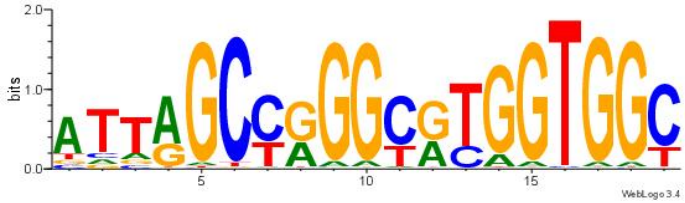

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

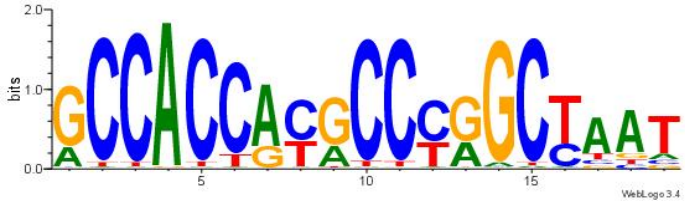

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.146279

Alignment:
AAAGTGCCGAGAKTGCAGC
ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

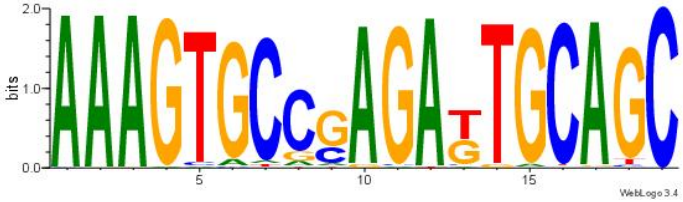

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

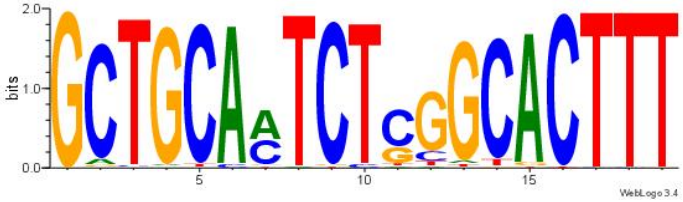

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.147265

Alignment:
TCCCTCCCGGACGGGGYGGC
-ACATCMTCTGAAATCTAGG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

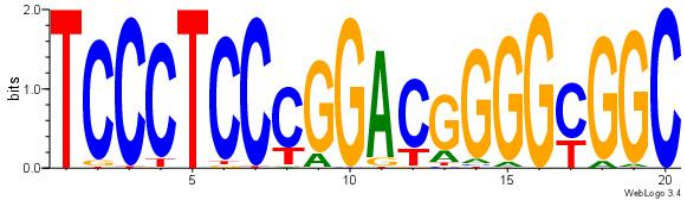

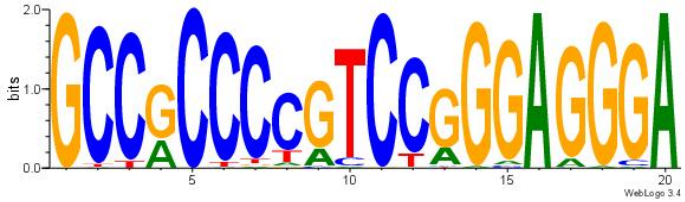

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148437

Alignment:

```
GCAGCAMTATTCACAATAG
CCTAGATTTCAGARGATGT
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

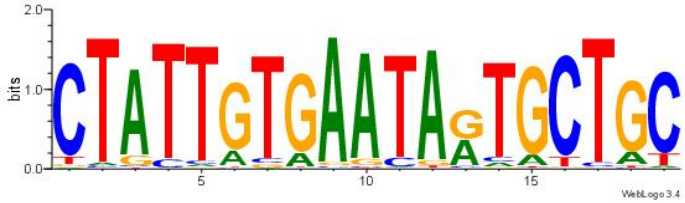

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

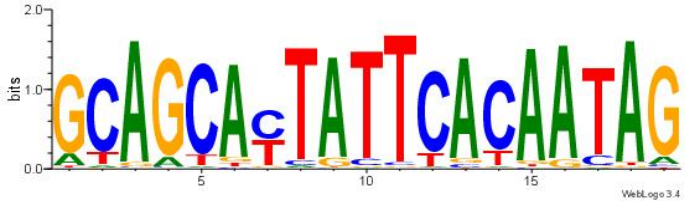

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.148804

Alignment:

```
ACACATCACAAAGCAGTTTC
-CCTAGATTTCAGARGATGT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

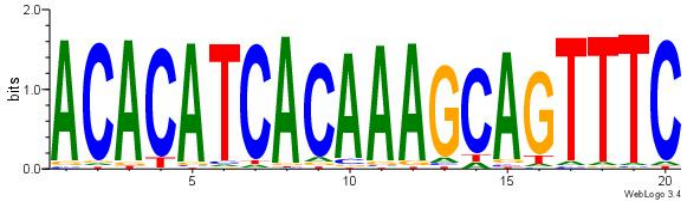

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

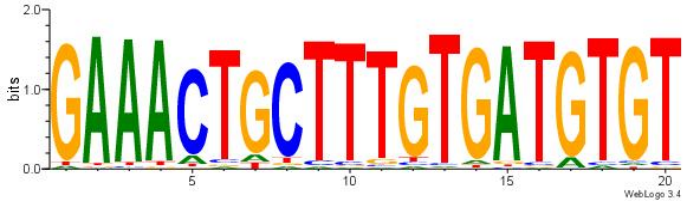

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.150165

Alignment:
AGGACTGAGGGTGCCYRGGG
ACATCMTCTGAAATCTAGG-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

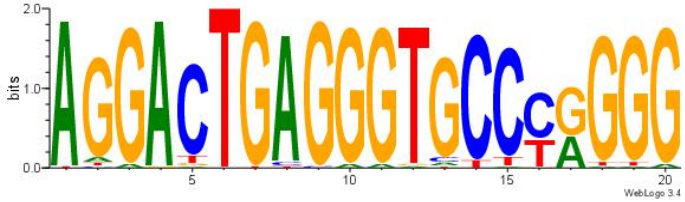

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

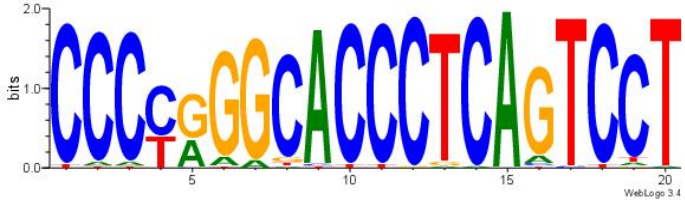

Dataset #: 1 Motif ID: 281 Motif name: Motif 281

Original motif Consensus sequence: AAATGGAATCAT

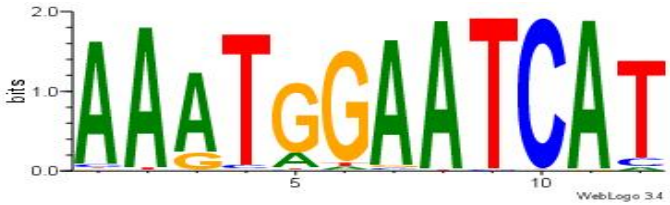

Reverse complement motif Consensus sequence: ATGATTCCATTT

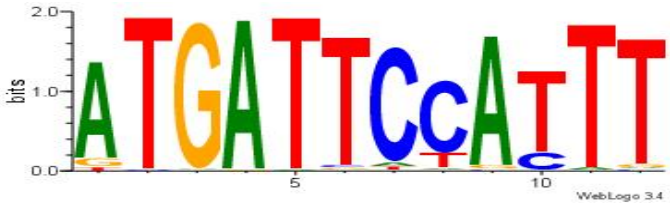

Best Matches for Motif ID 281 (Highest to Lowest)

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0598156

Alignment:

```
CCTTTGACTCCATGTC
---ATGATTCCATTT-
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

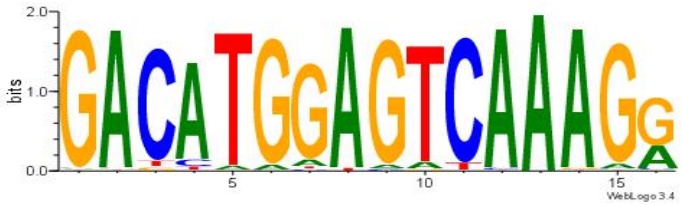

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

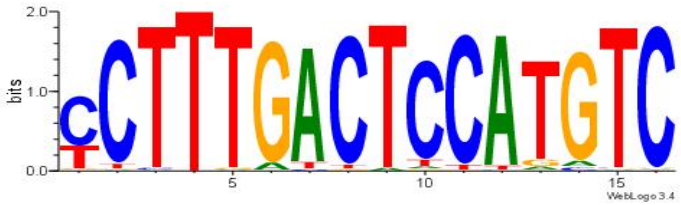

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0709771

Alignment:

```
GTTATTAATTGGCCTAATTT
------AAATGGAATCAT--
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

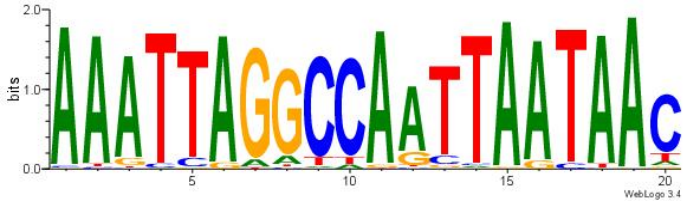

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0717431

Alignment:

```
AAAGAGAGTCAGCGAAG
AAATGGAATCAT-----
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

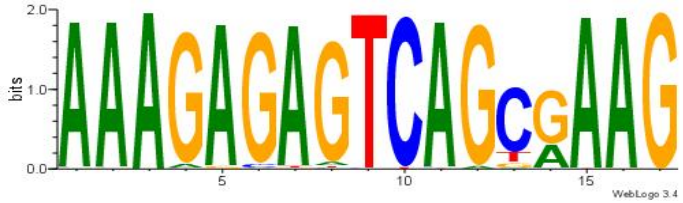

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

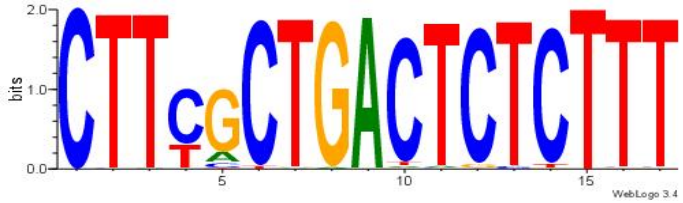

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0745254

Alignment:

```
ACCTGGAAAATCGGGTCACT
-------AAATGGAATCAT-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

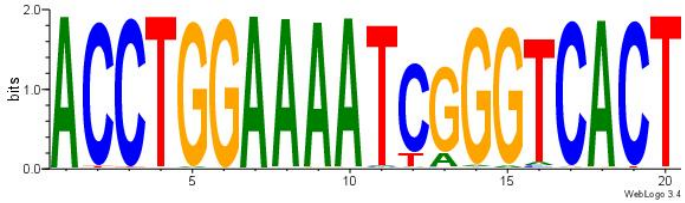

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

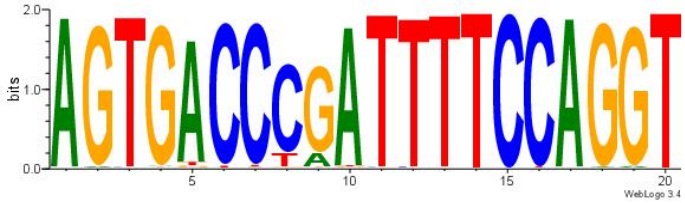

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 12
Similarity score: 0.0765832

Alignment:
AATGAKATCATGTCYTTTGC
-ATGATTCCATTT-------

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

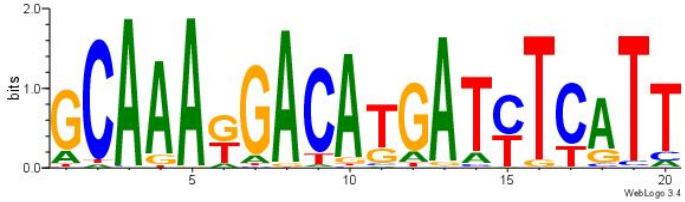

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

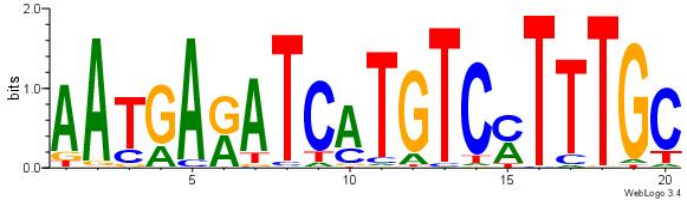

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0771226

Alignment:
TCCAAATGGGAGAAATTGGC
---AAATGGAATCAT-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

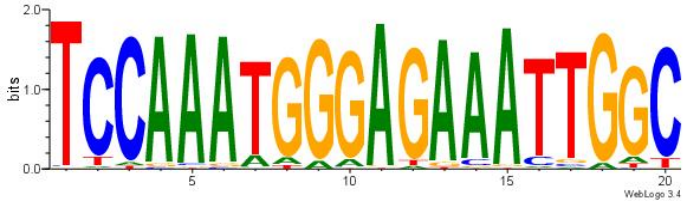

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

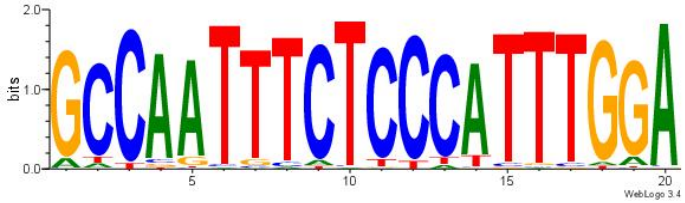

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0785878

Alignment:

```
CAAGTTGACACATAAAATTA
-AAATGGAATCAT-------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

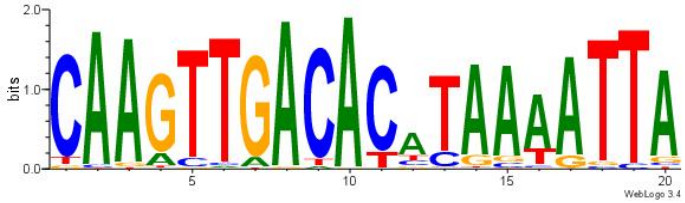

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

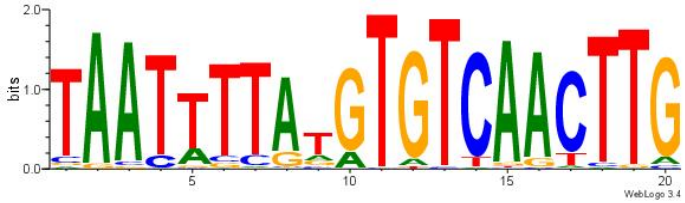

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0843794

Alignment:

```
CAMTTAGCATAATG
-AAATGGAATCAT-
```

Original motif Consensus sequence: CATTATGCTAARTG

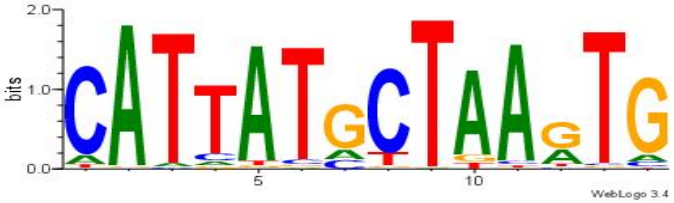

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

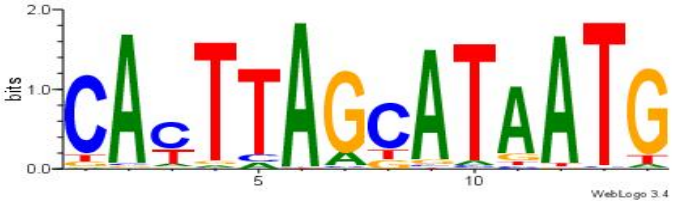

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.084932

Alignment:
ATTCAASATGAGATTTGGG
----ATGATTCCATTT---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

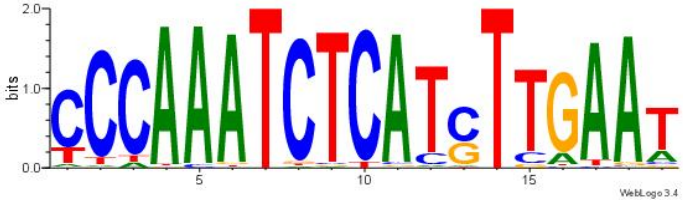

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

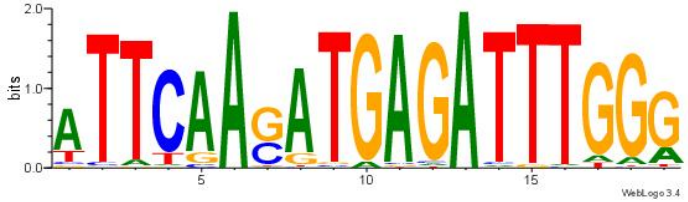

Dataset #: 1
Motif ID: 317
Motif name: Motif 317
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.0888438

Alignment:
ACATGCTACAACAT
--ATGATTCCATTT

Original motif Consensus sequence: ACATGCTACAACAT

Reverse complement motif Consensus sequence: ATGTTGTAGCATG

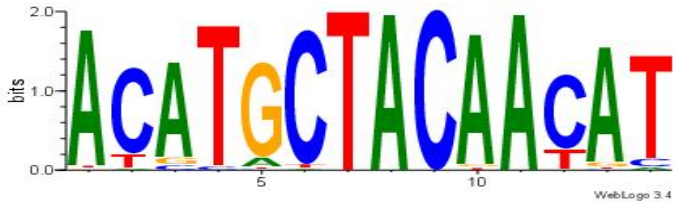

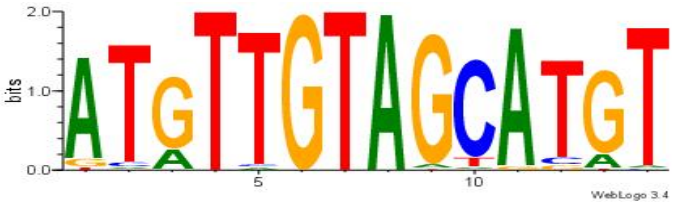

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0899337

Alignment:

```
GATACAAAATCAATGTR
-AAATGGAATCAT----
```

Original motif Consensus sequence: GATACAAAATCAATGTR

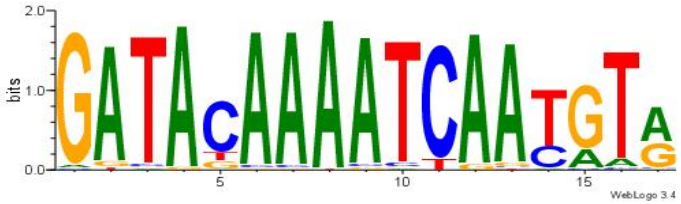

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

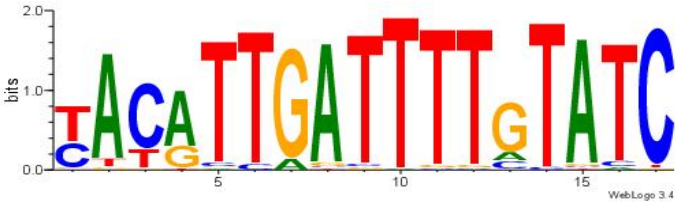

Dataset #: 1

Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0901536

Alignment:

```
AGCAGYTTGGAAACACT
----AAATGGAATCAT-
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

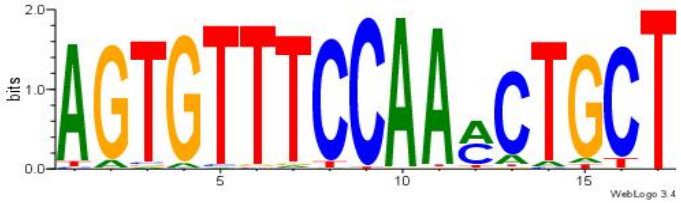

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

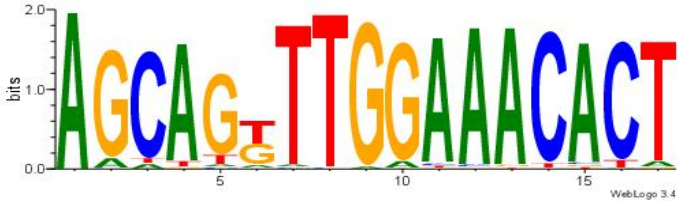

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.0903321

Alignment:
CAAAGGCATAAGAATGAT
------AAATGGAATCAT

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

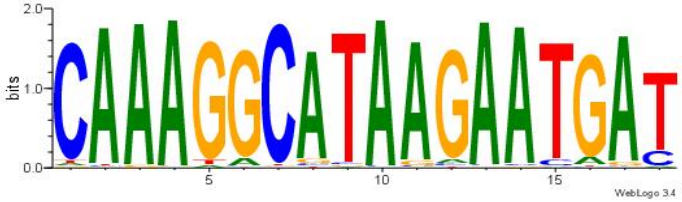

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

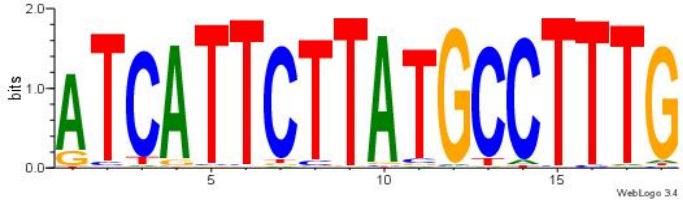

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0916156

Alignment:
TAAGTGGGAGCTAARC
-AAATGGAATCAT---

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

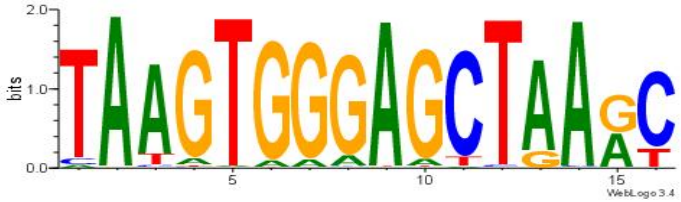

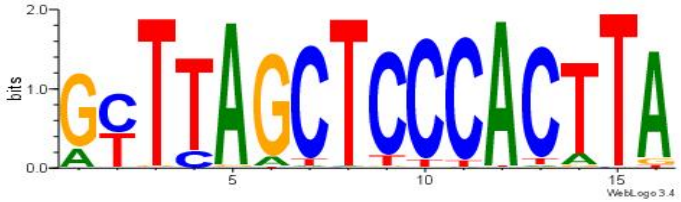

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0917504

Alignment:

```
AGAGCCAAATCATGARTGAA
-AAATGGAATCAT-------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

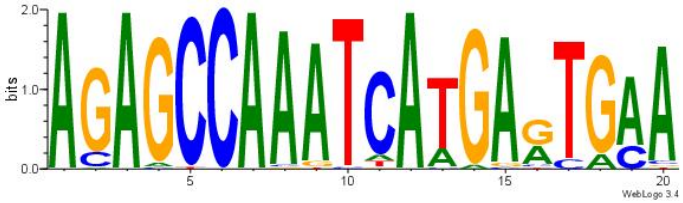

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

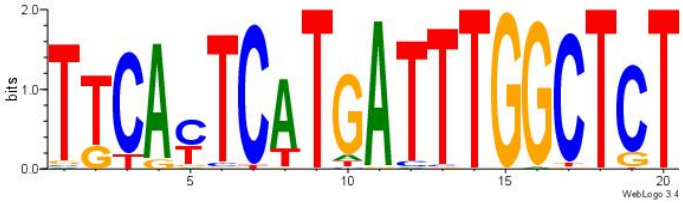

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0919631

Alignment:

```
GAAAGGGAACTCCCTGACCC
-AAATGGAATCAT-------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

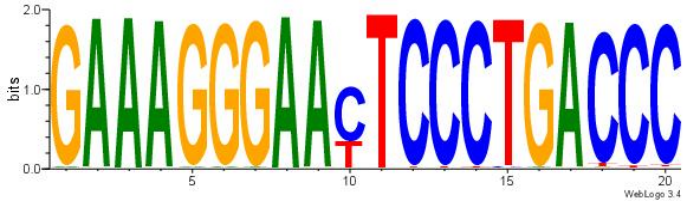

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

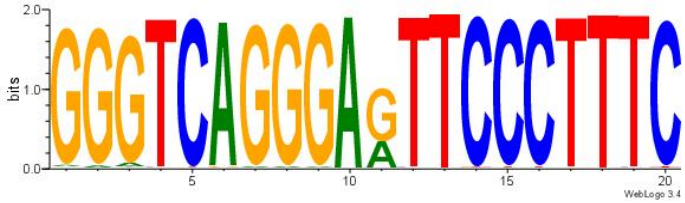

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0922938

Alignment:
TAATGGGTACAAA
AAATGGAATCAT-

Original motif Consensus sequence: TAATGGGTACAAA

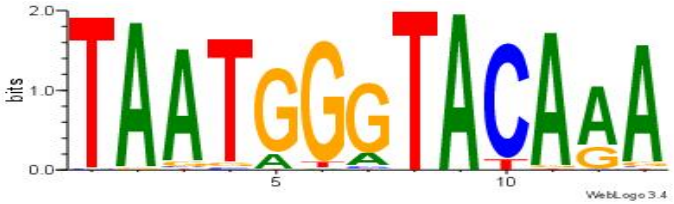

Reverse complement motif Consensus sequence: TTTGTACCCATTA

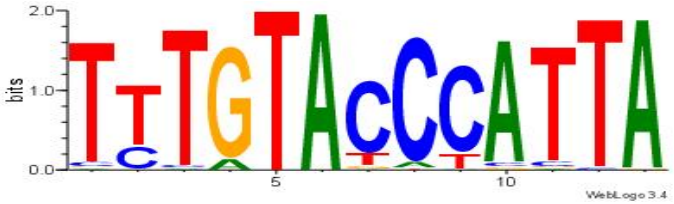

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.0927621

Alignment:
AAAATCACAAGCATTCCTAT
--AAATGGAATCAT------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

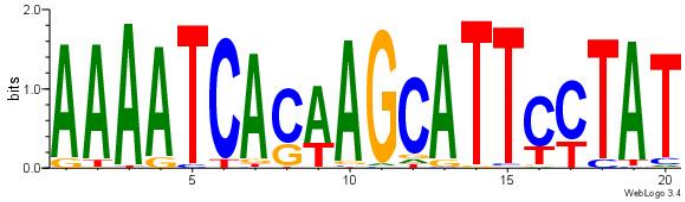

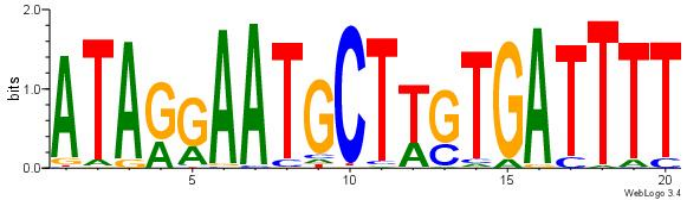

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0929266

Alignment:

```
CTCAGGAATGGAAAACC
-----AAATGGAATCAT
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

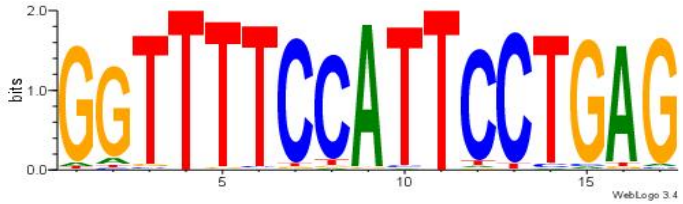

Dataset #: 1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0937807

Alignment:

```
CCCYAATACTGCGCTTTTC
-----ATGATTCCATTT--
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

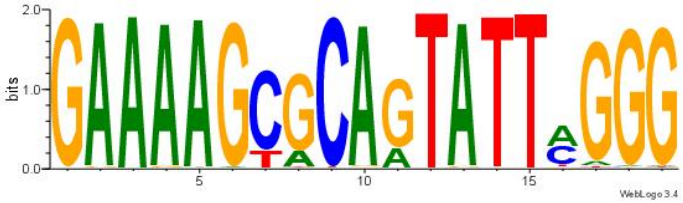

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

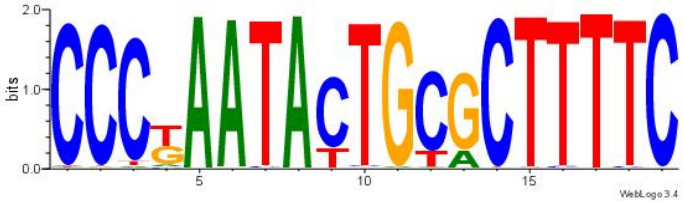

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0940721

Alignment:
GTAGCTGGGAYTACA
--AAATGGAATCAT-

Original motif Consensus sequence: GTAGCTGGGAYTACA

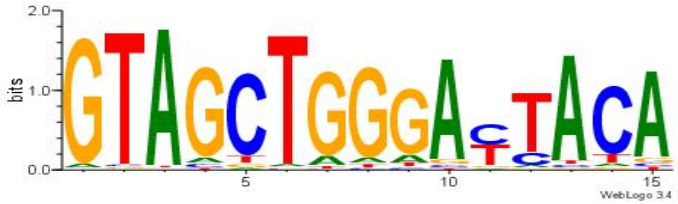

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

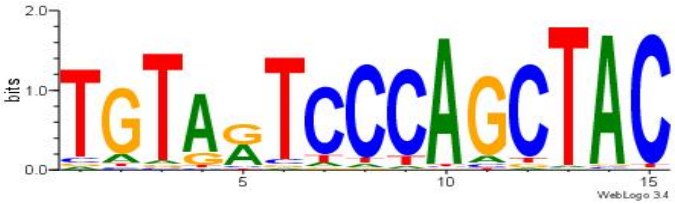

Dataset #: 1
Motif ID: 97
Motif name: Motif 97
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0947459

Alignment:
ATTCGGCCATCTT
ATGATTCCATTT-

Original motif Consensus sequence: AAGATGGCCGAAT

Reverse complement motif Consensus sequence: ATTCGGCCATCTT

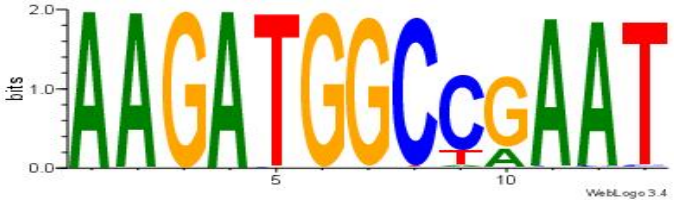

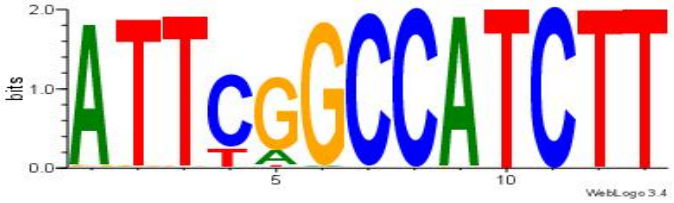

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0948067

Alignment:

```
AAGTTCTKGGKTACATGTGC
------ATGATTCCATTT--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

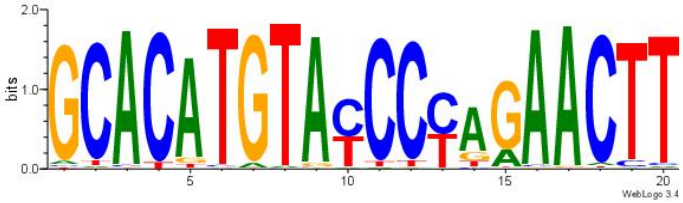

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

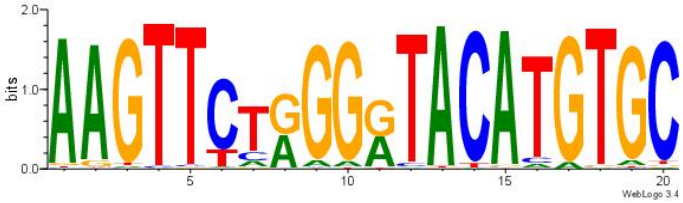

Dataset #: 1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0948803

Alignment:

```
CCCAAATCCTATAAAA
---AAATGGAATCAT-
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

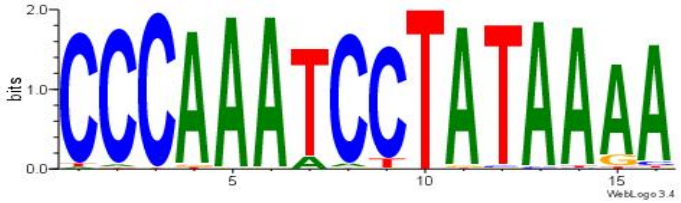

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

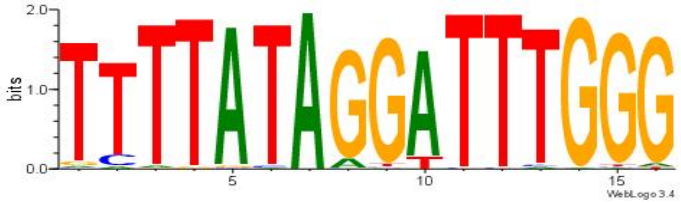

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.0956414

Alignment:
AAGTCTCCCAATTACAACT
-ATGATTCCATTT------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

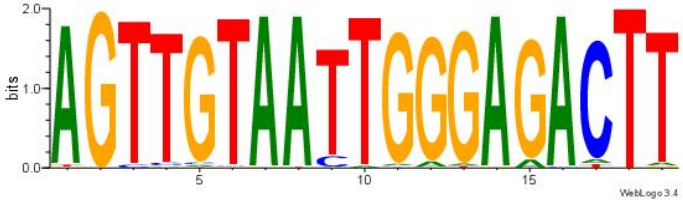

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

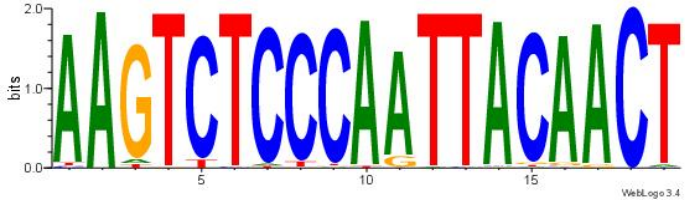

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0959231

Alignment:
AAGAGGTTTAATTGRCTCA
AAATGGAATCAT-------

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

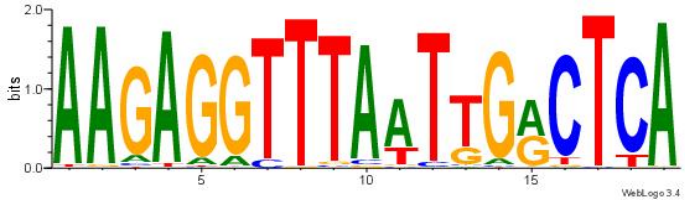

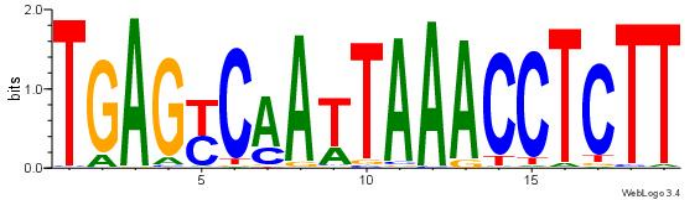

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.096015

Alignment:

```
ATTGGTGTATTTACAATCCC
--------ATGATTCCATTT
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

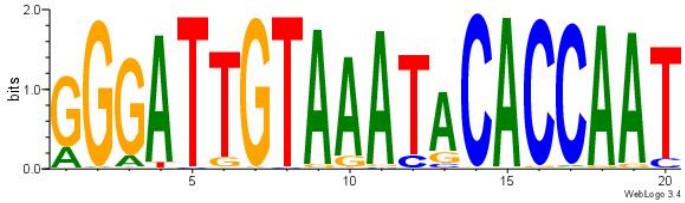

Dataset #: 1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.096267

Alignment:

```
AGGAGGAAGTCAATTTC
----ATGATTCCATTT-
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

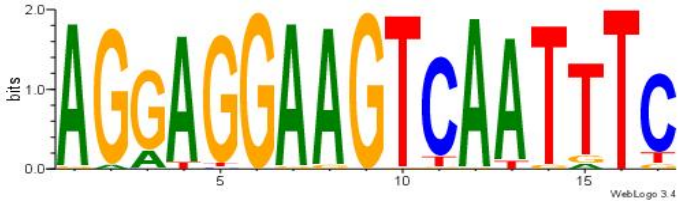

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

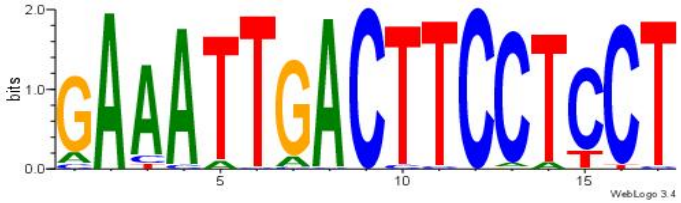

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0963209

Alignment:
GTTGTGAGGATTAAATGAG
------ATGATTCCATTT-

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

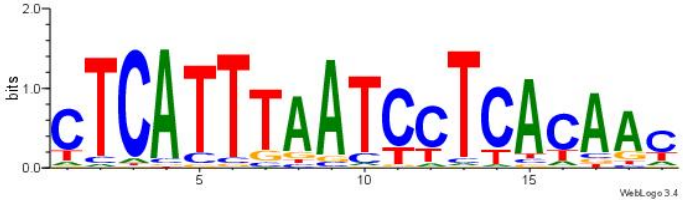

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

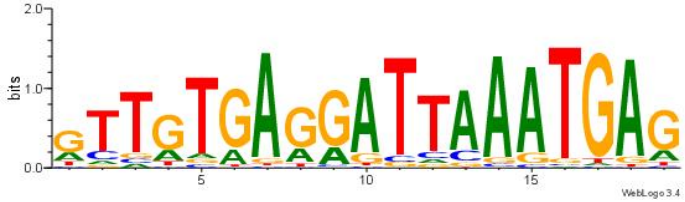

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 12
Similarity score: 0.0975762

Alignment:
CTCCAGKTMCATCCATGTTG
------ATGATTCCATTT--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

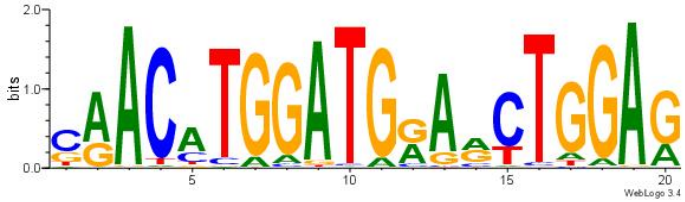

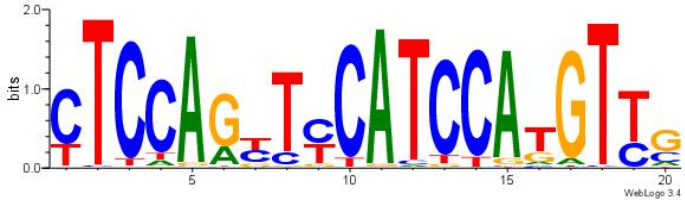

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0978604

Alignment:

```
ATGGCCTATGACYGSTTTG
-------ATGATTCCATTT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

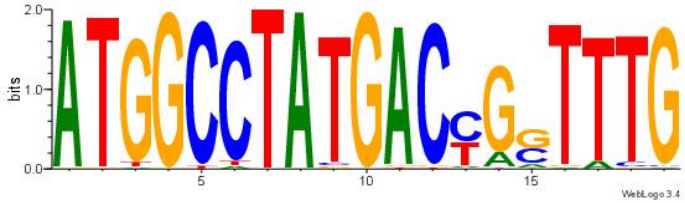

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

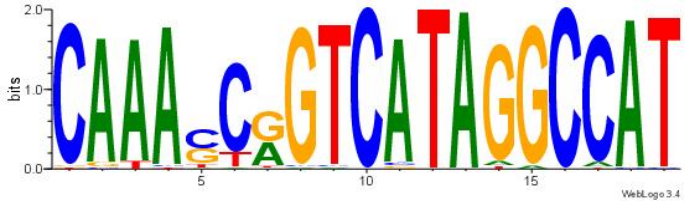

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0991618

Alignment:

```
TAGATAATAGCTCCAGCTTT
------ATGATTCCATTT--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

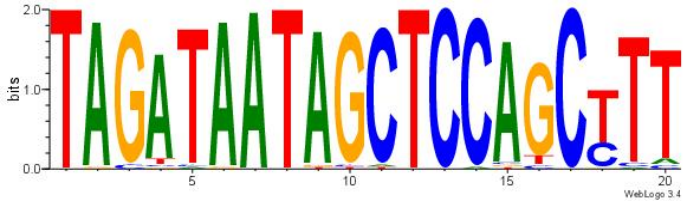

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

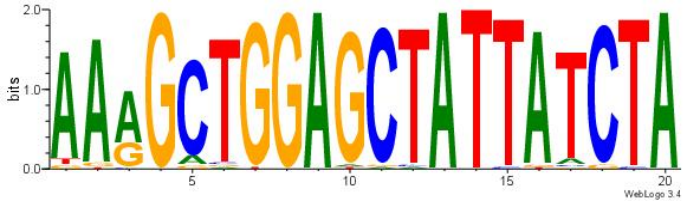

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0999352

Alignment:
CCAAGACYCCAGAC
--ATGATTCCATTT

Original motif Consensus sequence: CCAAGACYCCAGAC

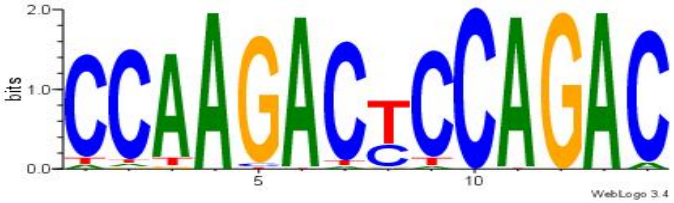

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

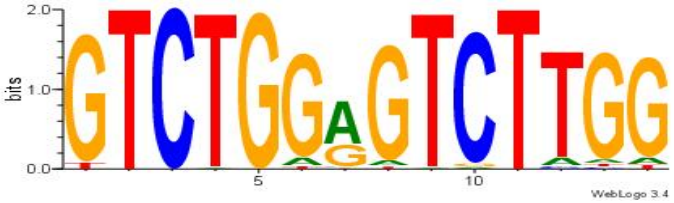

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12
Similarity score:	0.100392

Alignment:
HAGTGGKATTGCTGGATCAT
--------AAATGGAATCAT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

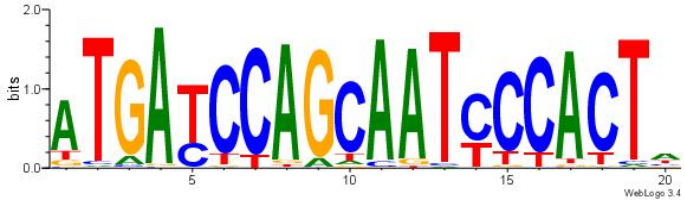

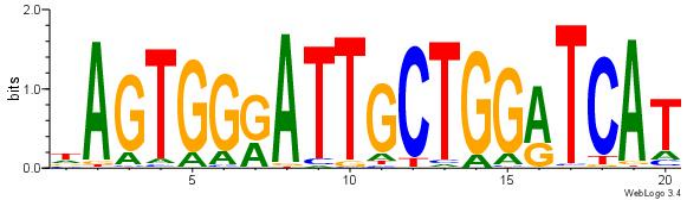

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.100517

Alignment:

```
CCTMACAATCATGG
--AAATGGAATCAT
```

Original motif Consensus sequence: CCATGATTGTRAGG

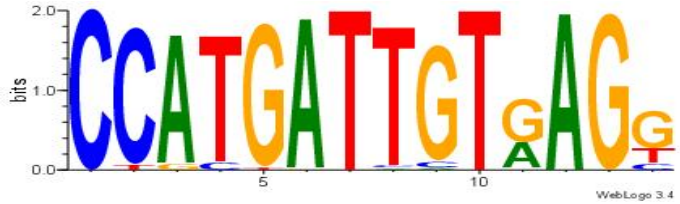

Reverse complement motif Consensus sequence: CCTMACAATCATG

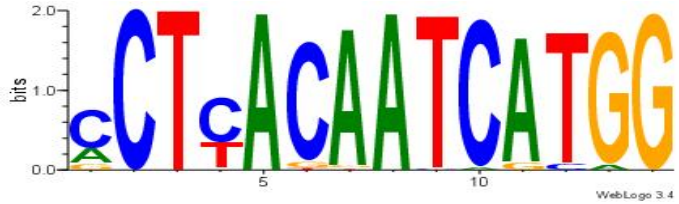

Dataset #:	1
Motif ID:	195

Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.100887

Alignment:

```
TAAAAGACTACAWATTGGGT
-----ATGATTCCATTT---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

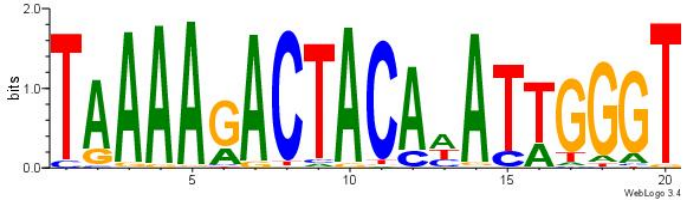

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

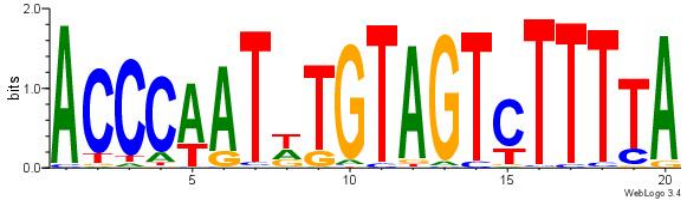

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.101141

Alignment:
TGGATGGATGGATGGAT
-AAATGGAATCAT----

Original motif Consensus sequence: ATCCATCCATCCATCCA

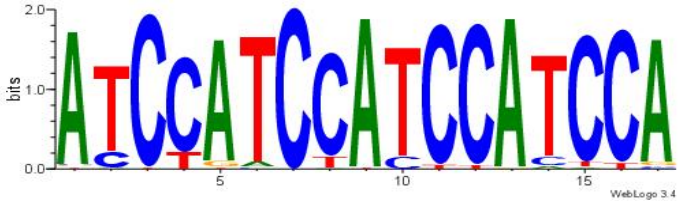

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.101626

Alignment:
TCAATGGGCTCCCAAATG
-AAATGGAATCAT-----

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

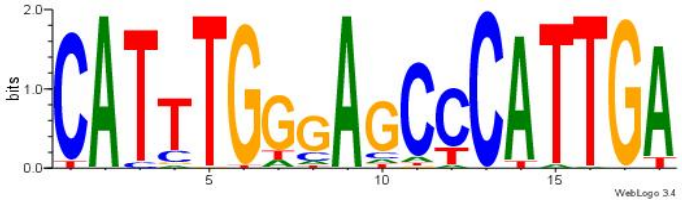

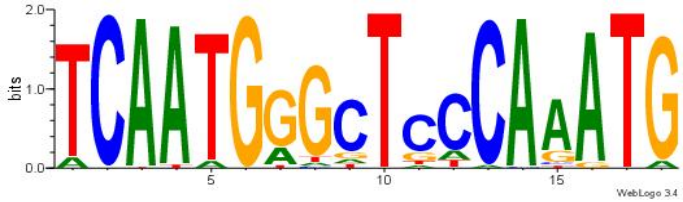

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.101868

Alignment:
AGGCTGTTTTACAGTTAAC
----ATGATTCCATTT---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

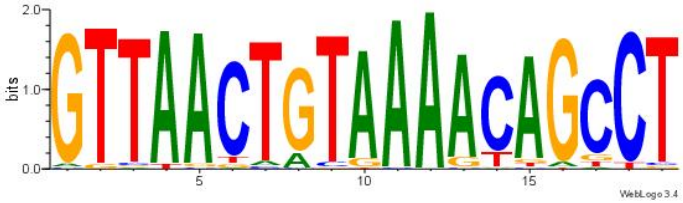

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

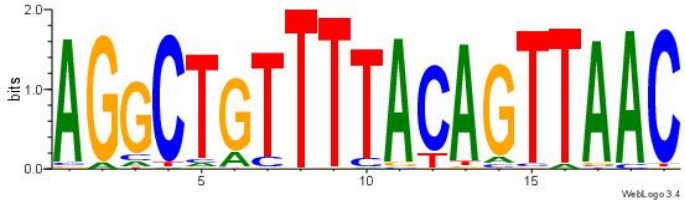

Dataset #: 1

Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.102507

Alignment:

```
TGHCCTGCKCCCACTGTCT
----ATGATTCCATTT---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

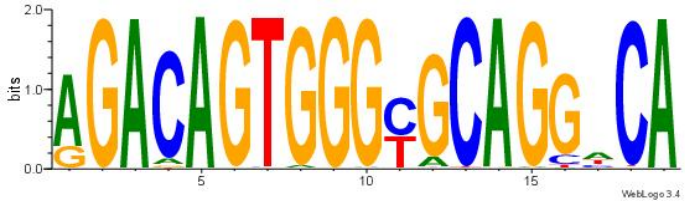

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

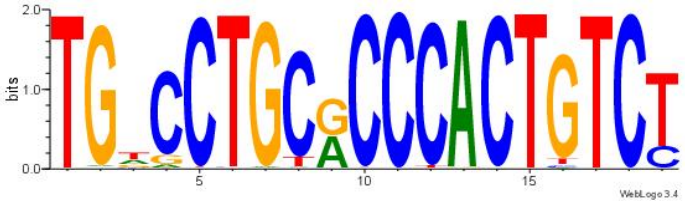

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12

Similarity score: 0.102758

Alignment:
CAGCTACTCKTATACCCTTG
--------ATGATTCCATTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

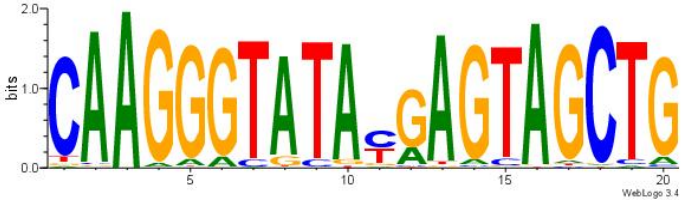

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

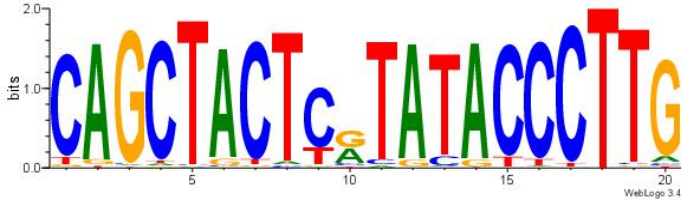

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.102866

Alignment:
AGTGAGAACATRYRRTRTTT
-------AAATGGAATCAT-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

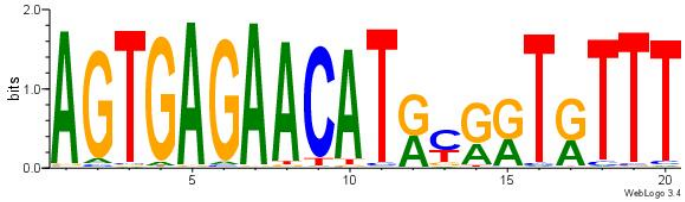

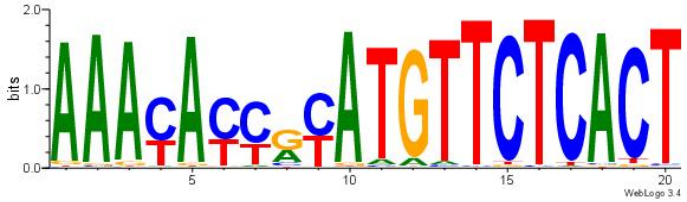

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.103598

Alignment:

```
CGGCTTCATTCTTGAAGTC
ATGATTCCATTT-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

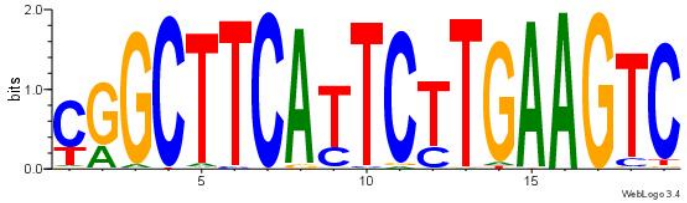

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.1046

Alignment:

```
AGGAGRCMCTCTGCCTGGC
ATGATTCCATTT-------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

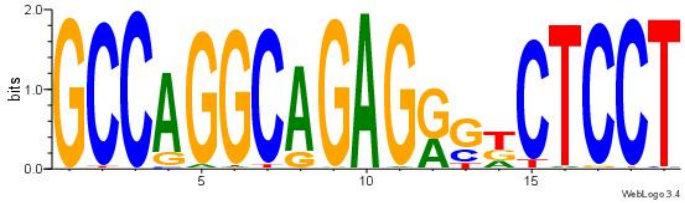

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

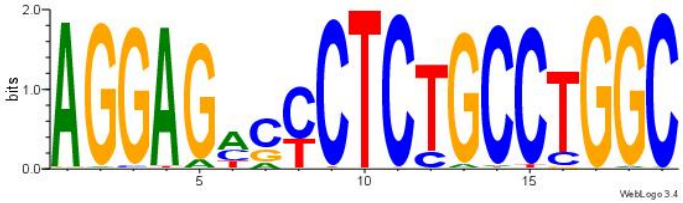

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	12

Similarity score: 0.104761

Alignment:
CACCAGACTCAGGAGCCCAG
--------AAATGGAATCAT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

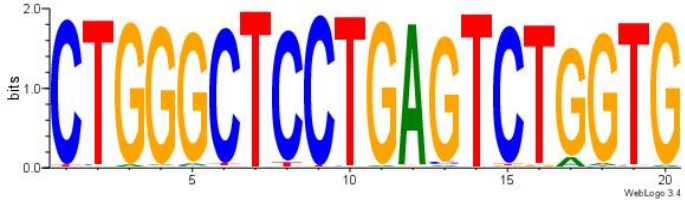

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

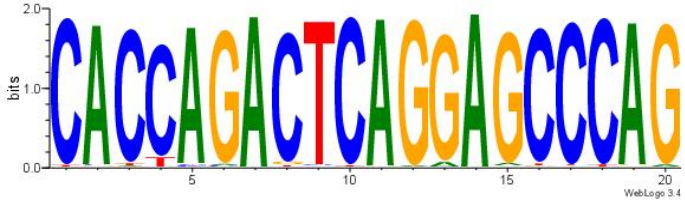

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.104874

Alignment:
GAGSTTGCAGTGAGC
ATGATTCCATTT---

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

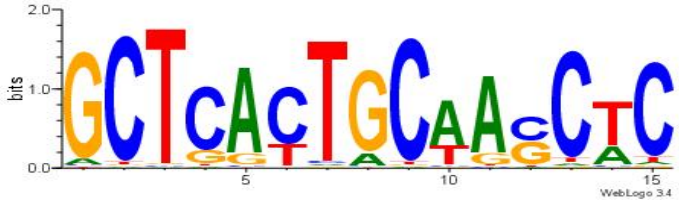

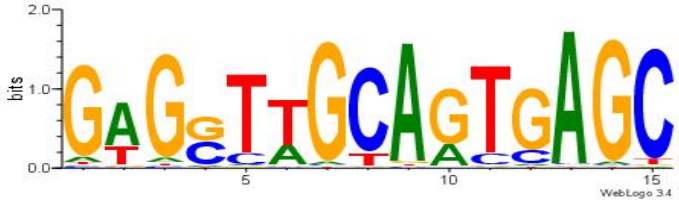

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.105699

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----ATGATTCCATTT---
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

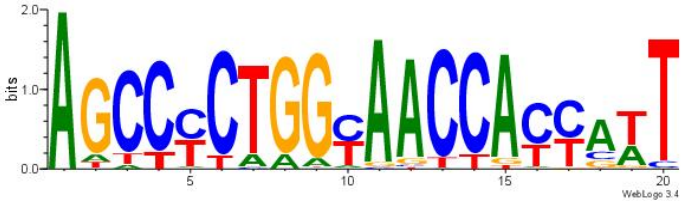

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

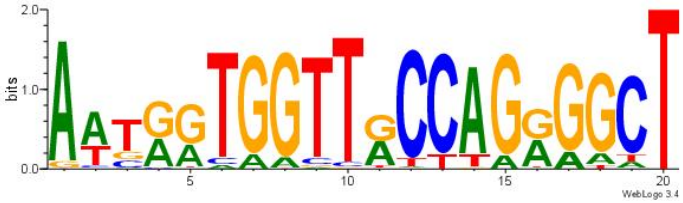

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.105719

Alignment:

```
CCTAGATTTCAGARGATGT
-----ATGATTCCATTT--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

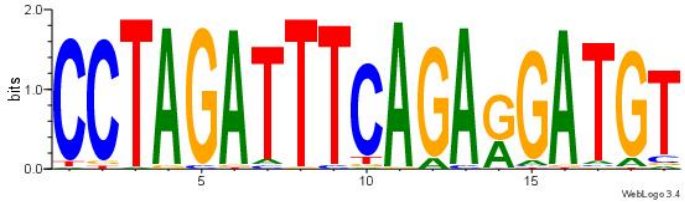

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

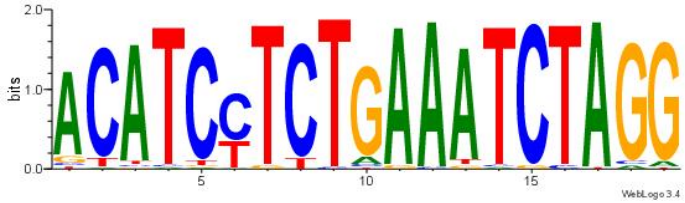

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.105917

Alignment:
CAAAGTCTTAACTCATT
-AAATGGAATCAT----

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

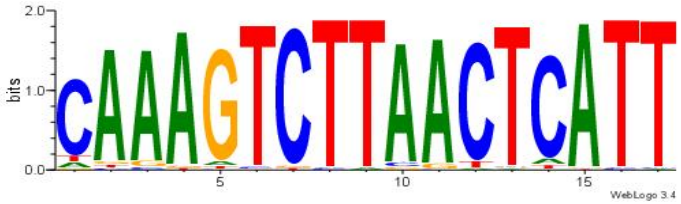

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.106137

Alignment:
CATTAGATTCTCATAGGA
AAATGGAATCAT------

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

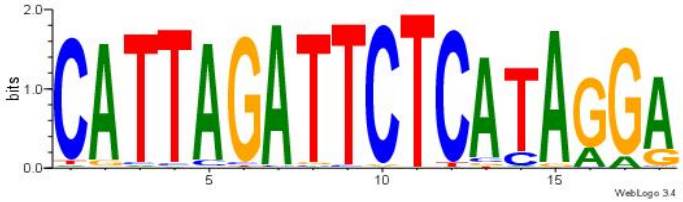

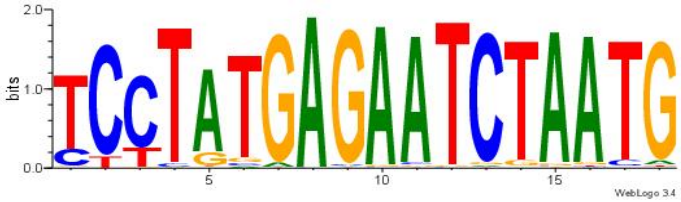

Dataset #: 1 Motif ID: 282 Motif name: Motif 282

Original motif Consensus sequence: GTCTCTACTAAAA

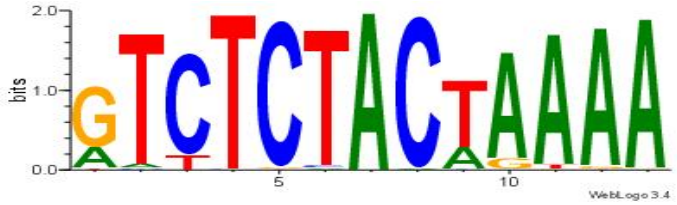

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

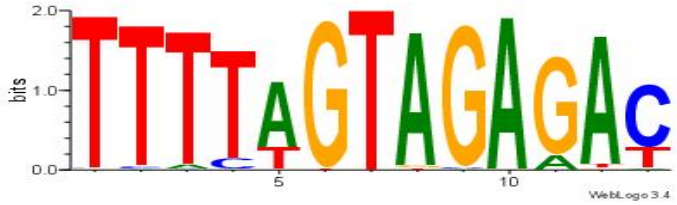

Best Matches for Motif ID 282 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.033043

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
GTCTCTACTAAAA-------
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

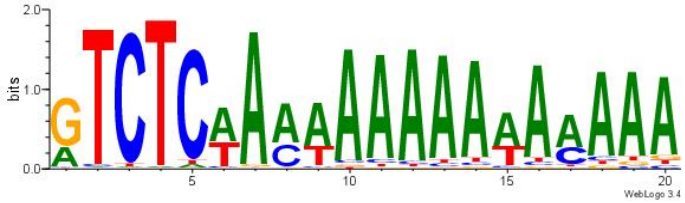

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

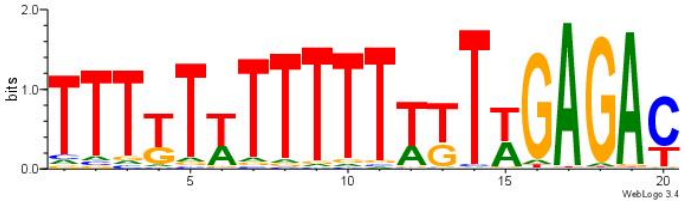

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0894973

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
---TTTTAGTAGAGAC----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

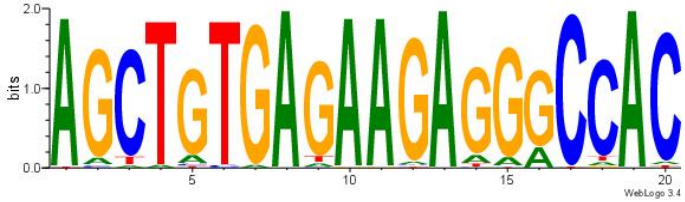

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

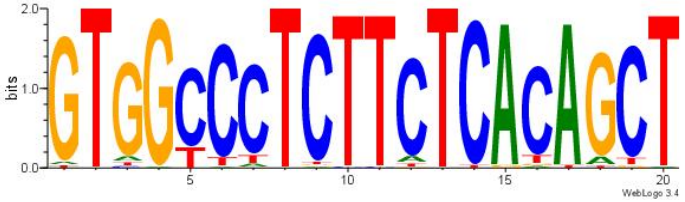

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0954988

Alignment:

```
CCCAAATCTCATSTTGAAT
-----GTCTCTACTAAAA-
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

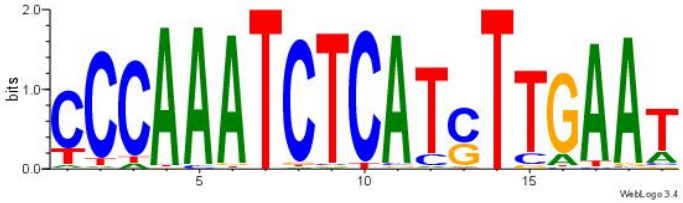

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

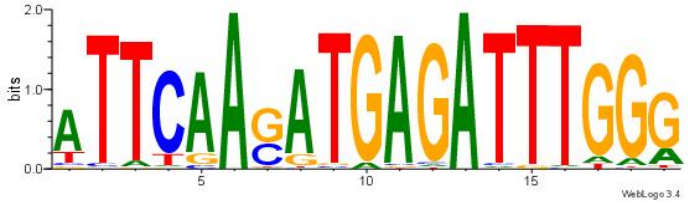

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.0959906

Alignment:
AAGTCTCCCAATTACAACT
--GTCTCTACTAAAA----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

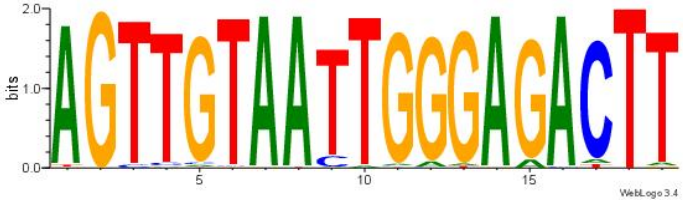

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

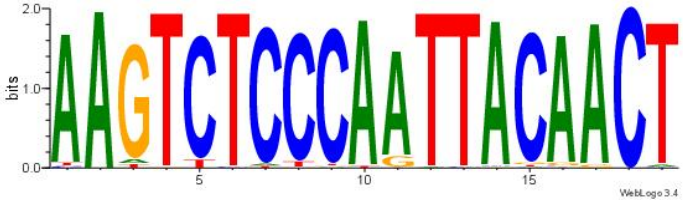

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0973832

Alignment:
CAAAGTCTTAACTCATT
GTCTCTACTAAAA----

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

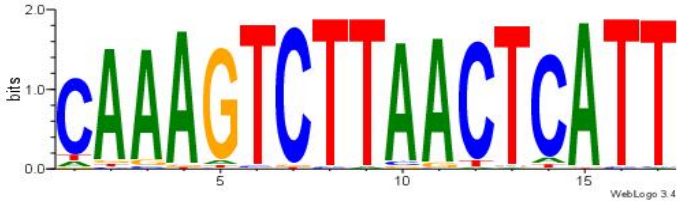

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0977841

Alignment:

```
AATTAAAAGACACAGACTG
TTTTAGTAGAGAC------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

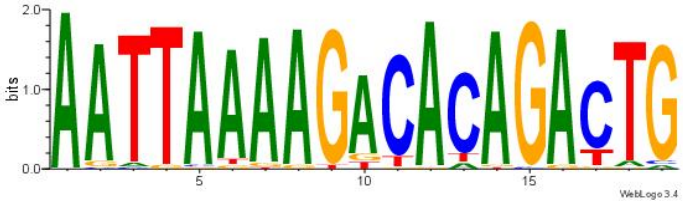

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

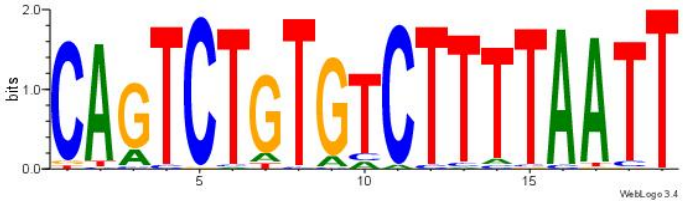

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0986871

Alignment:

```
GGTTCATCTCACTAGGGAGT
-TTTTAGTAGAGAC------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

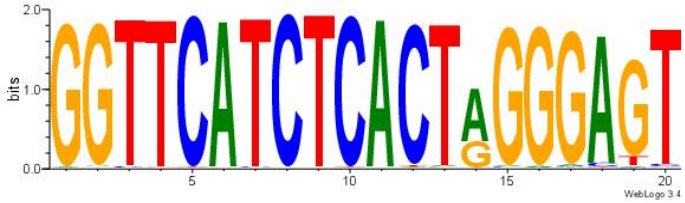

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

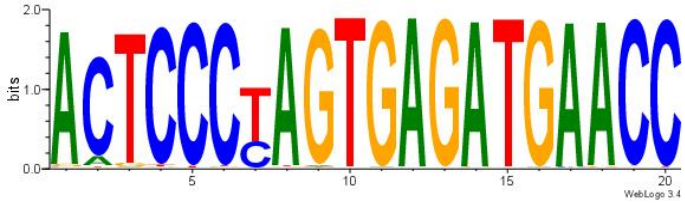

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.100124

Alignment:
ACATCMTCTGAAATCTAGG
------GTCTCTACTAAAA

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

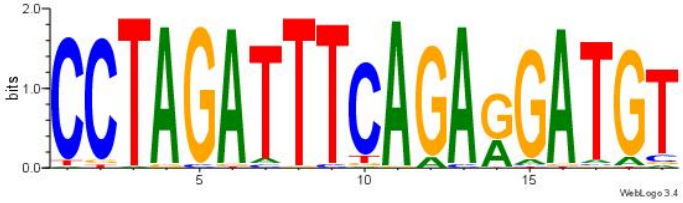

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

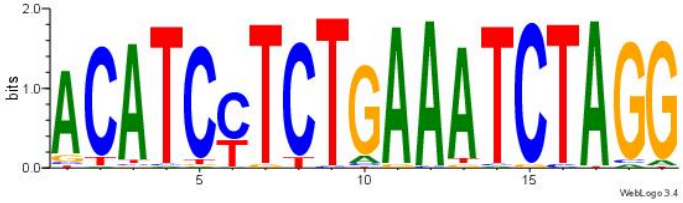

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.102359

Alignment:
GCACATGTAYCCYAGAACTT
----GTCTCTACTAAAA---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

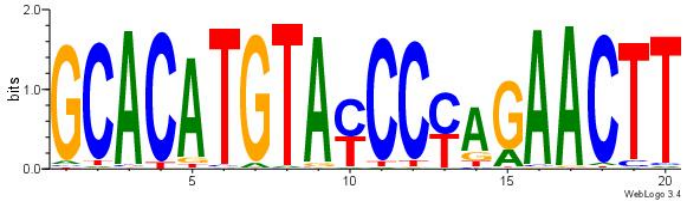

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

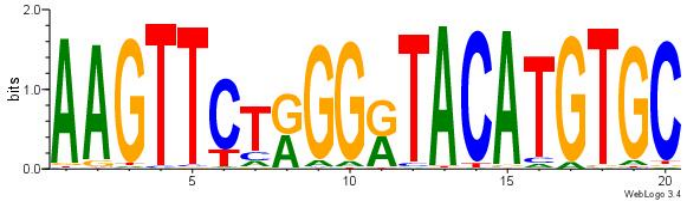

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10332

Alignment:

```
GGGATTGTAAATACACCAAT
-TTTTAGTAGAGAC------
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

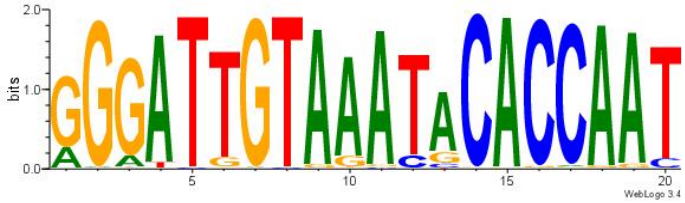

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.104087

Alignment:

```
AAAATGTGGTAYATAYAYAC
----TTTTAGTAGAGAC---
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

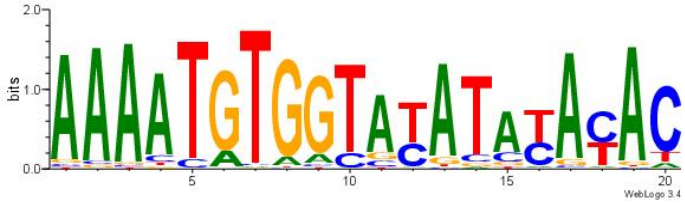

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

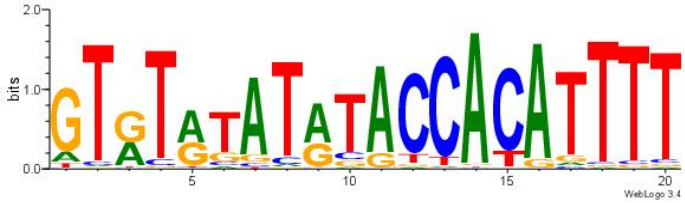

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 13
Similarity score: 0.104133

Alignment:
GCGCTCKTCGGGGAGGCTCG
----TTTTAGTAGAGAC---

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

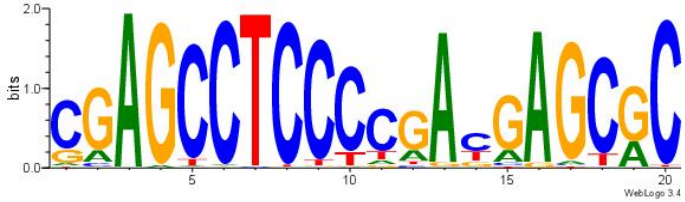

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

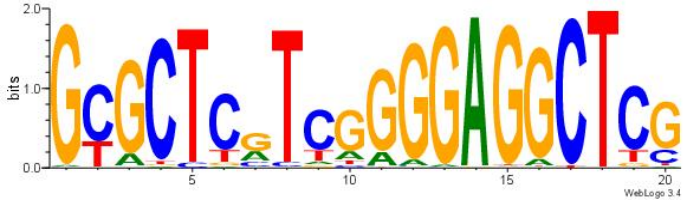

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.104139

Alignment:
AAGAGGTTTAATTGRCTCA
-TTTTAGTAGAGAC-----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

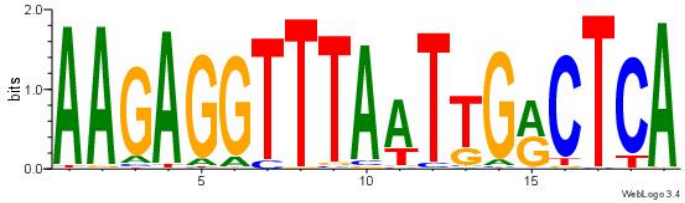

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

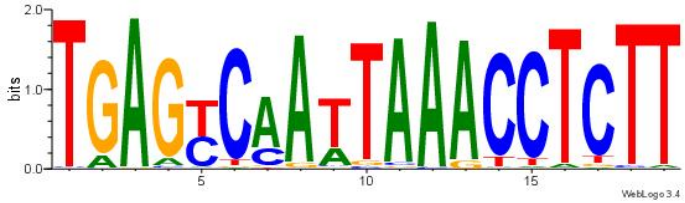

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.104325

Alignment:

```
GKCTGTACCCCCATTGTAT
------GTCTCTACTAAAA
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

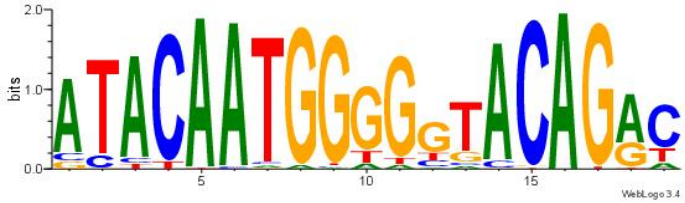

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

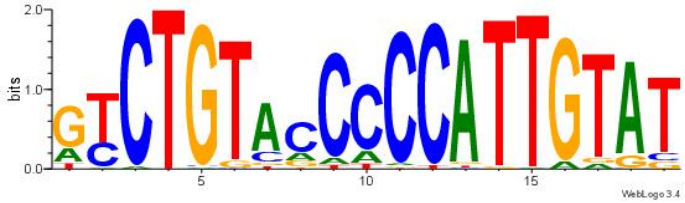

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.105244

Alignment:

```
AGGTCCTTCAGGAGGTATTC
--TTTTAGTAGAGAC-----
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

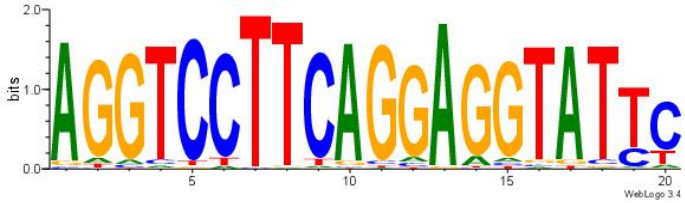

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

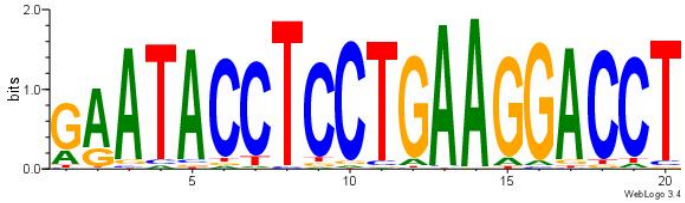

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.107821

Alignment:
GGGAGGTGTCTCCCAGTCAG
-----GTCTCTACTAAAA--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

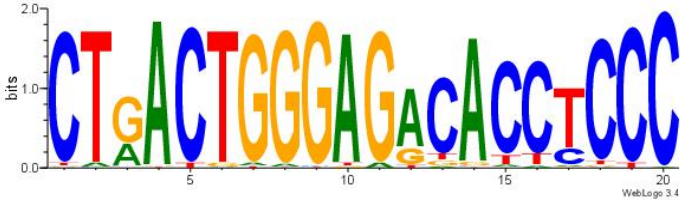

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

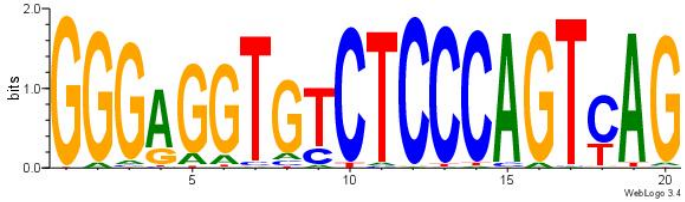

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.10797

Alignment:
CAAGTTGACACATAAAATTA
---GTCTCTACTAAAA----

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

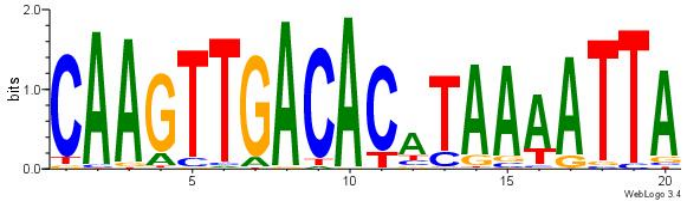

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

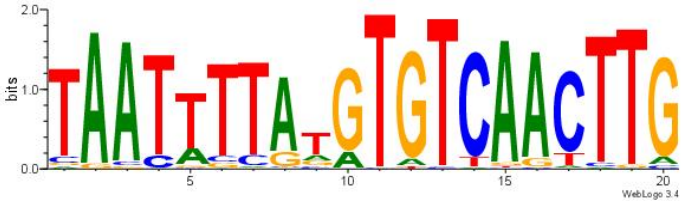

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.10897

Alignment:

```
AGGTTTGTTACATAGGTAWA
-----TTTTAGTAGAGAC--
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

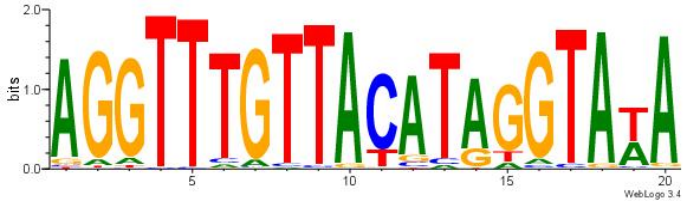

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

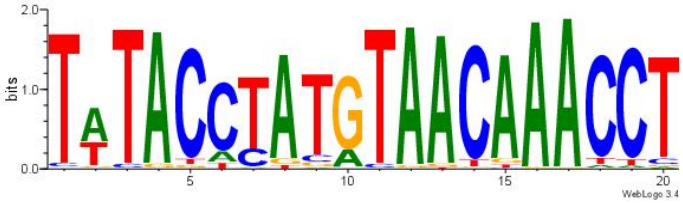

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.109753

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-------TTTTAGTAGAGAC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

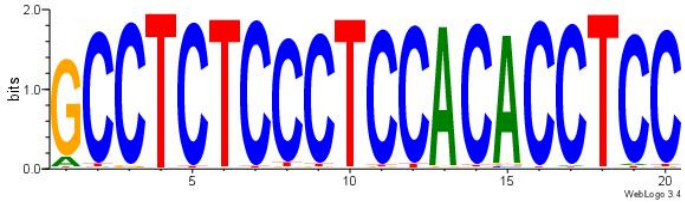

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

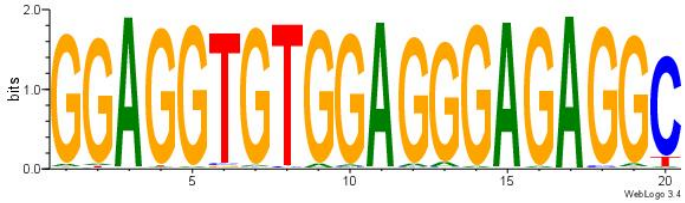

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.110102

Alignment:
CATTAGATTCTCATAGGA
-----GTCTCTACTAAAA

Original motif Consensus sequence: CATTAGATTCTCATAGGA

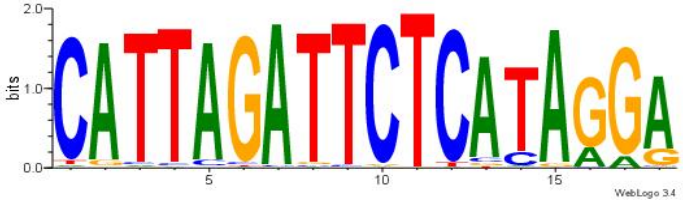

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

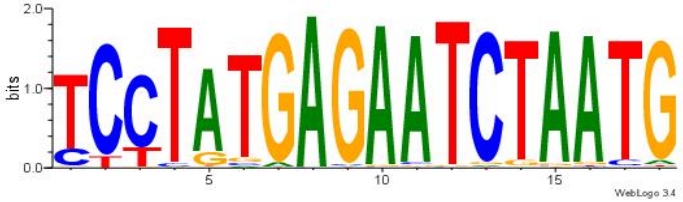

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.110171

Alignment:
CTGGCCCTCAATGGTTAAAC
------GTCTCTACTAAAA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

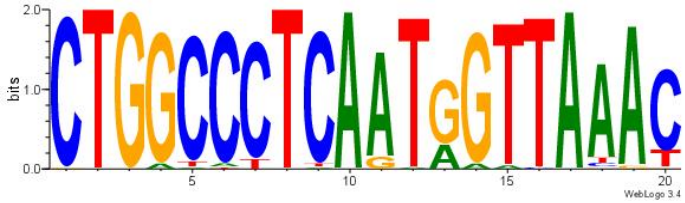

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

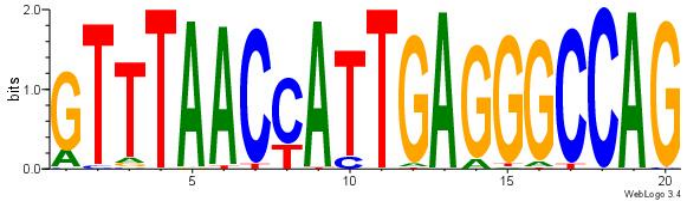

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.110506

Alignment:

```
CCCAAATCCTATAAAA
---GTCTCTACTAAAA
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

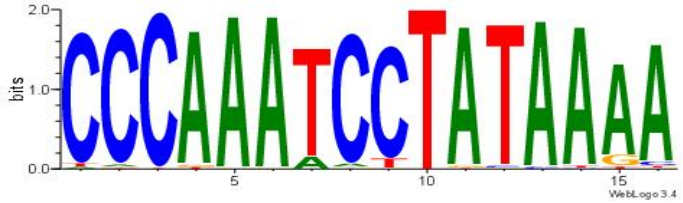

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

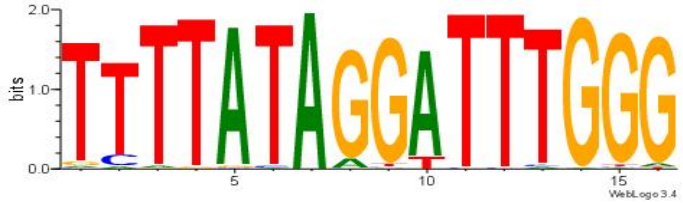

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.111363

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-GTCTCTACTAAAA------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

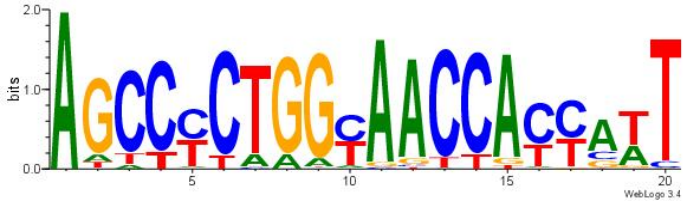

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

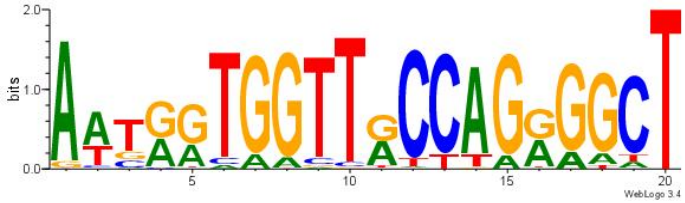

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.111607

Alignment:
ACTTTCAGGCATAACA
-TTTTAGTAGAGAC--

Original motif Consensus sequence: ACTTTCAGGCATAACA

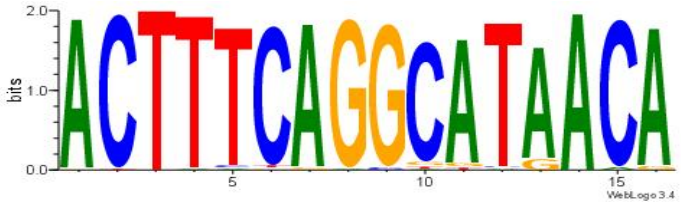

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

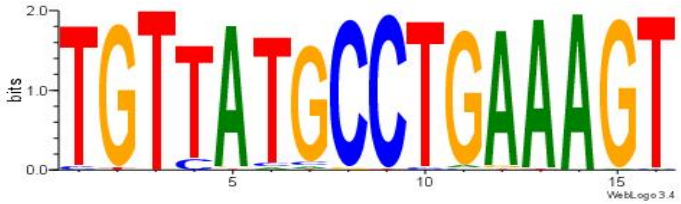

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.112237

Alignment:
GAAHCAACCKAAKTGTCCAT
-------GTCTCTACTAAAA

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

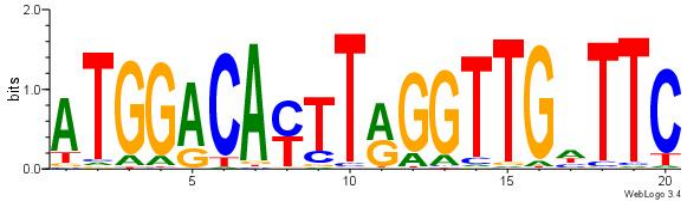

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

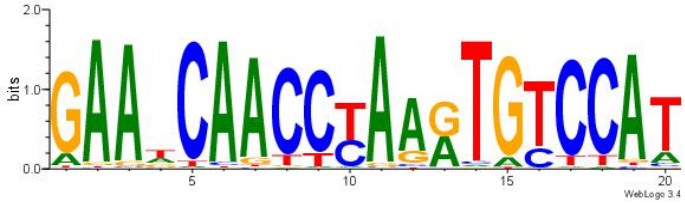

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.112343

Alignment:

```
GTTAACTGTAAAACAGCCT
GTCTCTACTAAAA------
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

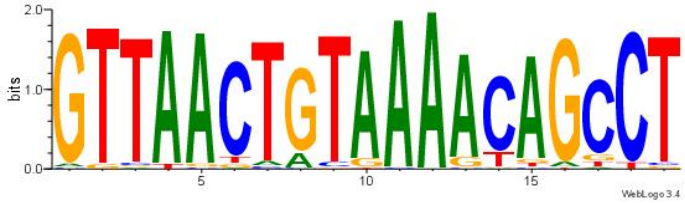

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

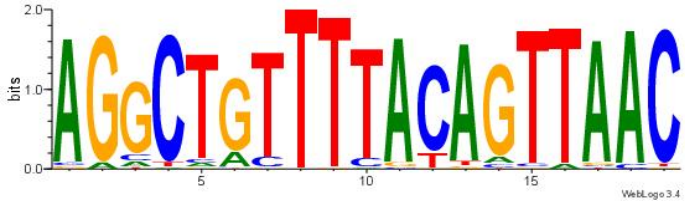

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.11239

Alignment:

```
CTATTGTGAATARTGCTGC
--TTTTAGTAGAGAC----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

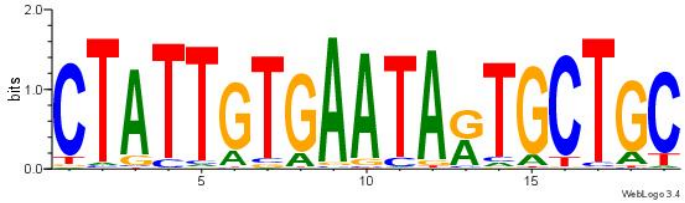

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

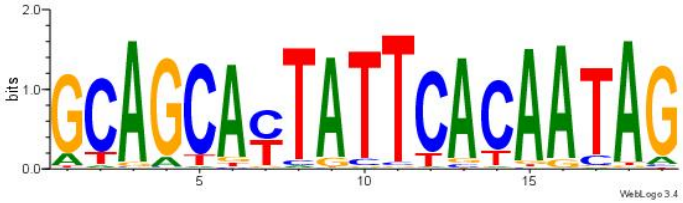

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 13
Similarity score: 0.112433

Alignment:
ACTTTGGACTGTGGACTTTT
---TTTTAGTAGAGAC----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

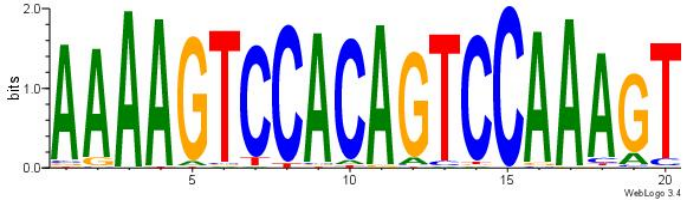

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

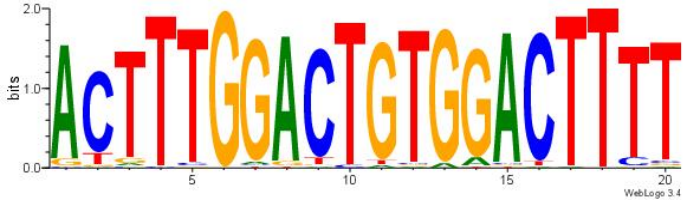

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.112999

Alignment:
CAGGTGGTKTTTGGTTACAT
------GTCTCTACTAAAA-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

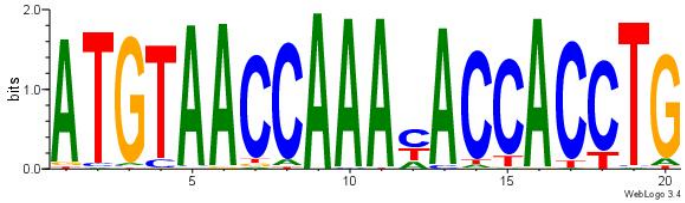

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

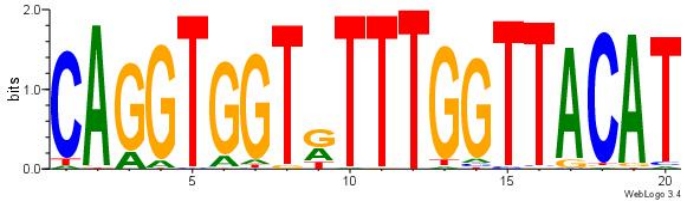

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.113179

Alignment:

```
VMATTTAKTGAGCACCTACT
--TTTTAGTAGAGAC-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

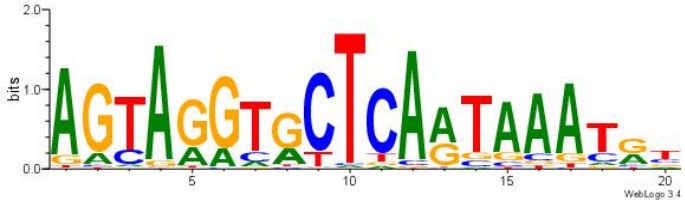

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

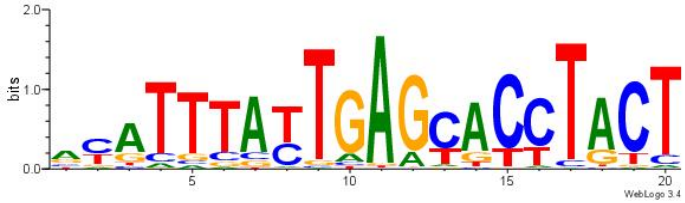

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.113225

Alignment:

```
AACAACAACAACAAMAA
----GTCTCTACTAAAA
```

Original motif Consensus sequence: AACAACAACAACAAMAA

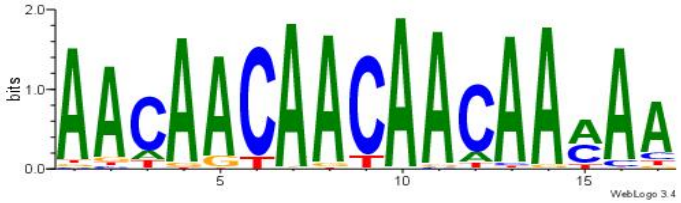

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

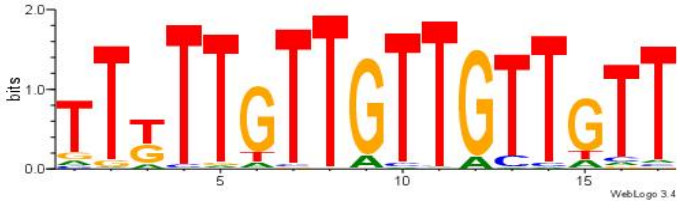

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 13
Similarity score: 0.113448

Alignment:
AGTGTTTCCAAMCTGCT
-GTCTCTACTAAAA---

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

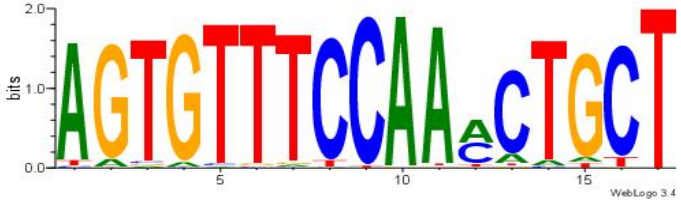

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

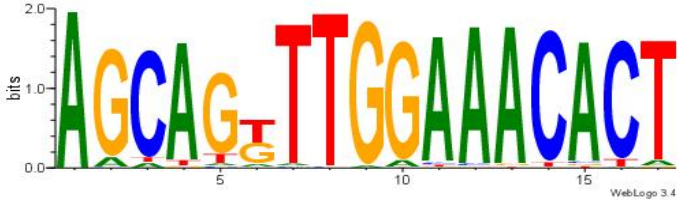

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.113639

Alignment:
GAATCCTGGGACAGCCTGT
---TTTTAGTAGAGAC---

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

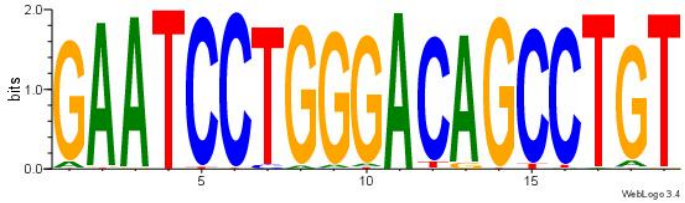

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

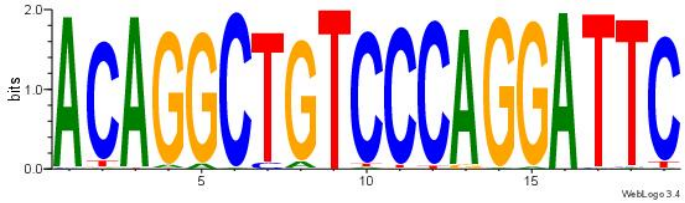

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.113959

Alignment:

```
ACCATCTTTAAGAACT
---GTCTCTACTAAAA
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

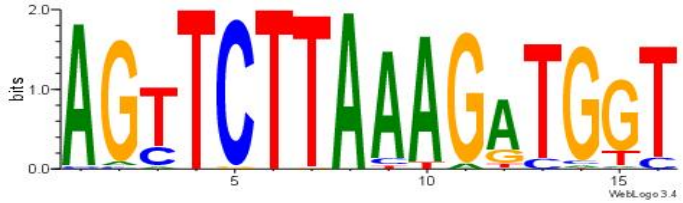

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

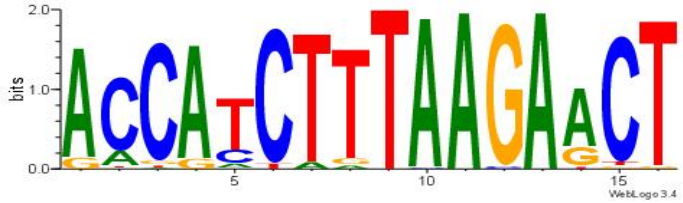

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.11473

Alignment:

```
GTGTGCGAATAGGTGT
-TTTTAGTAGAGAC--
```

Original motif Consensus sequence: ACACCTATTCGCACAC

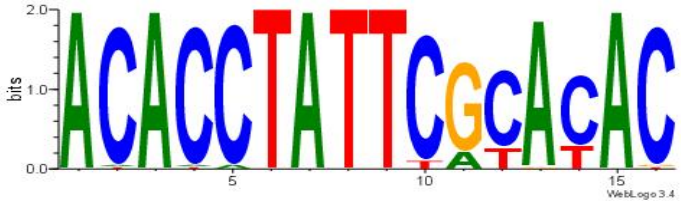

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

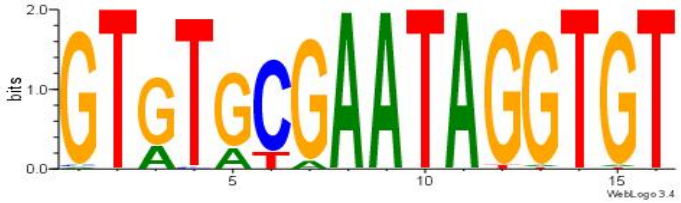

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 13
Similarity score: 0.114924

Alignment:
CTCATTTAATCCTCACAAC
---TTTTAGTAGAGAC---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

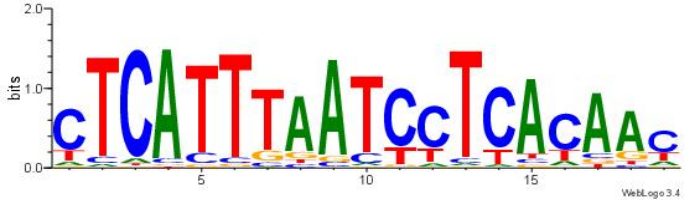

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

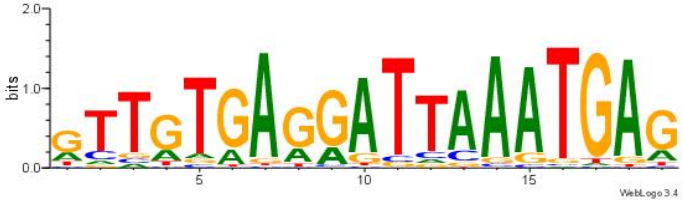

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.115069

Alignment:
GCTCACTGCAASCTC
-GTCTCTACTAAAA-

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

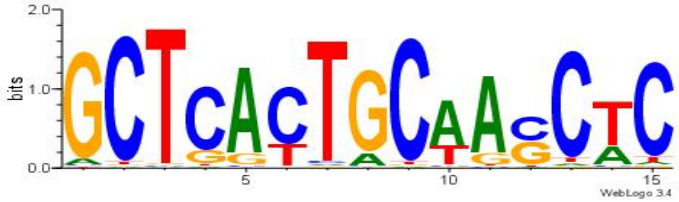

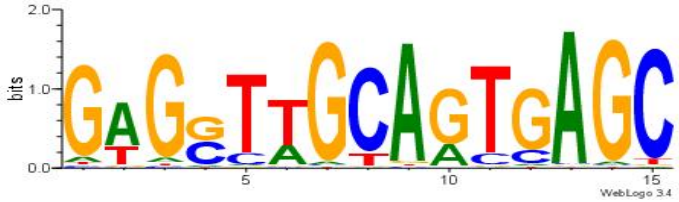

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.115698

Alignment:

```
GCCCTCACCAGAAGC
GTCTCTACTAAAA--
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

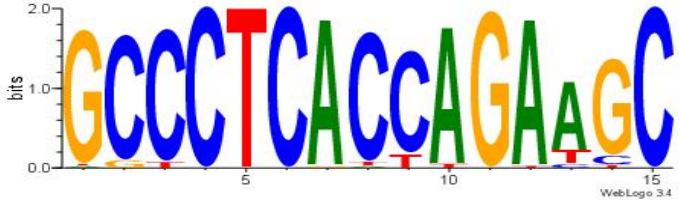

Reverse complement motif Consensus sequence: GCTTCTGGTGAGGGC

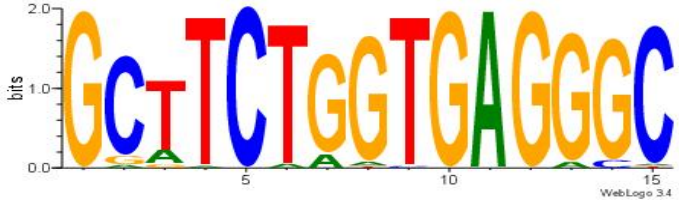

Dataset #:	1
Motif ID:	53

Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.115747

Alignment:

```
CTTGGGTGGTCGATGGGAC
------TTTTAGTAGAGAC
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

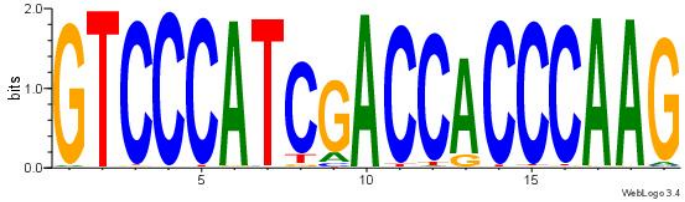

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

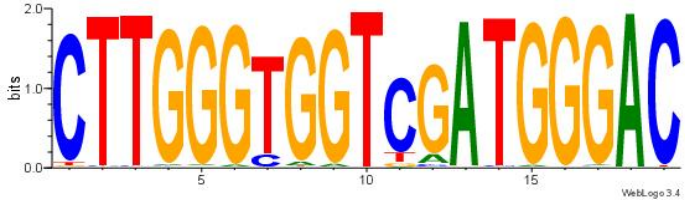

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.115756

Alignment:
AGCTCMKCCTCCTGTCAGAT
-GTCTCTACTAAAA------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

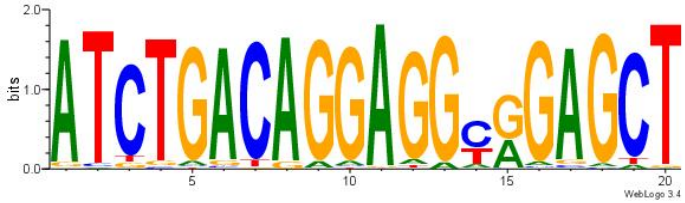

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

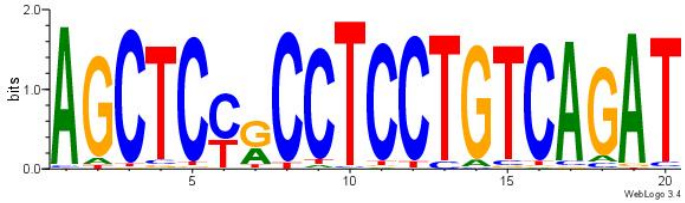

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.115977

Alignment:
GCTGGAGTGCAGTGGCRYGA
-TTTTAGTAGAGAC------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

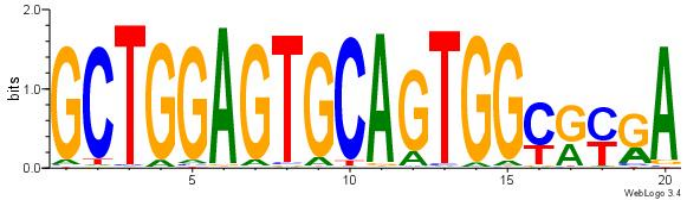

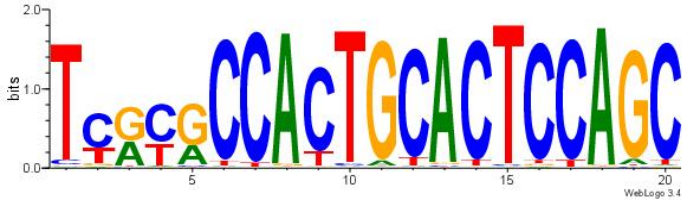

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.116103

Alignment:

```
CAGCTACTCKTATACCCTTG
----TTTTAGTAGAGAC---
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

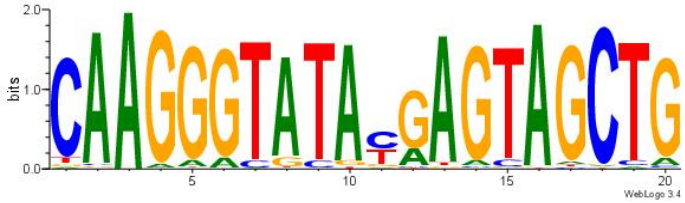

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

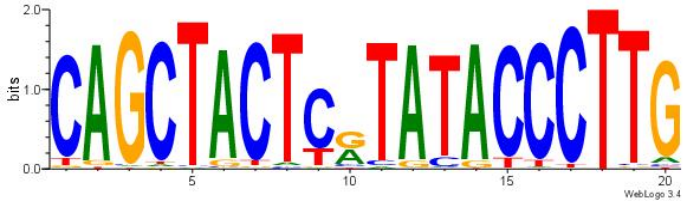

Dataset #: 1

Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.116139

Alignment:

```
TGTAKTCCCAGCTAC
--TTTTAGTAGAGAC
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

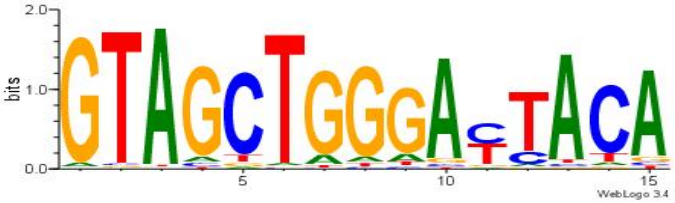

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

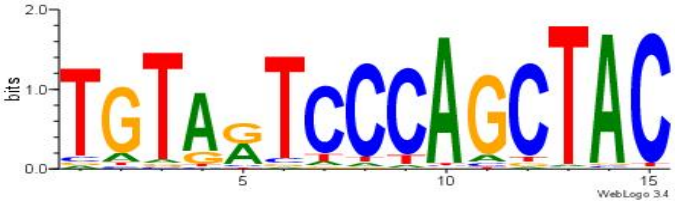

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.116161

Alignment:
ATGTTGTAGCATGT
TTTTAGTAGAGAC-

Original motif Consensus sequence: ACATGCTACAACAT

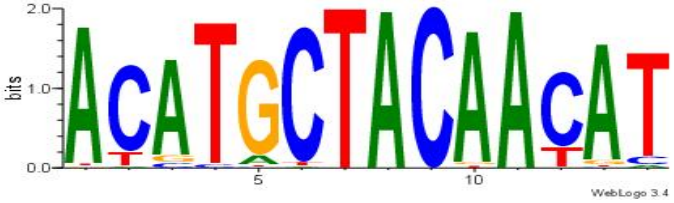

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

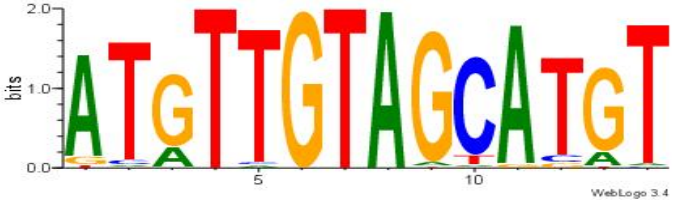

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.116624

Alignment:
TGATACCCAGGCAAACAG
--GTCTCTACTAAAA---

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

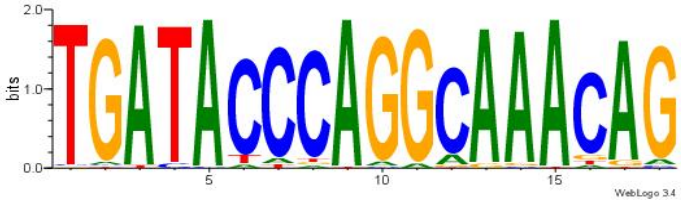

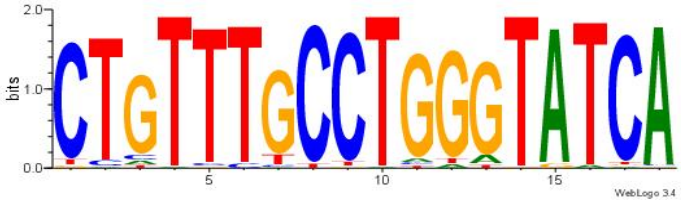

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.116809

Alignment:

```
KACGGGCTTAARAAACGGC
----GTCTCTACTAAAA--
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

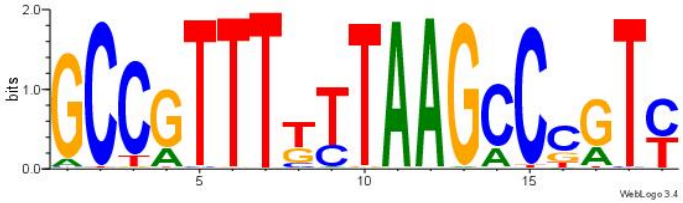

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

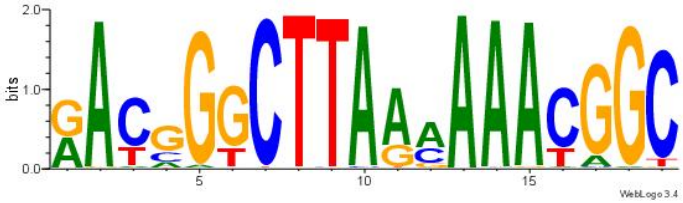

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.117282

Alignment:

```
TYTGTCMTTTTGTGACTGGC
-------TTTTAGTAGAGAC
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

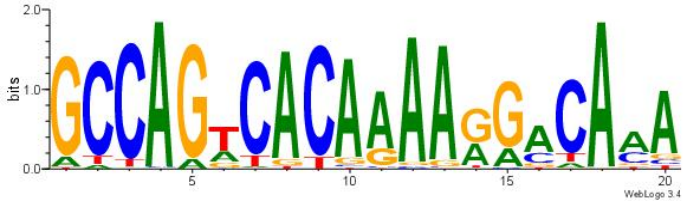

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

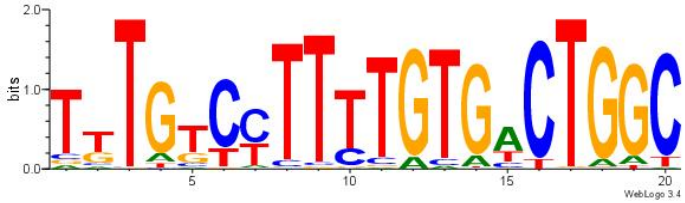

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.117309

Alignment:
GGTGCCCCTCTGGGACRAA
-----GTCTCTACTAAAA-

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

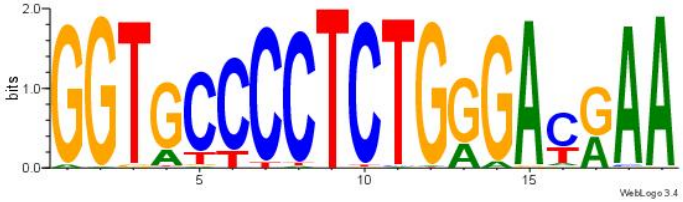

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

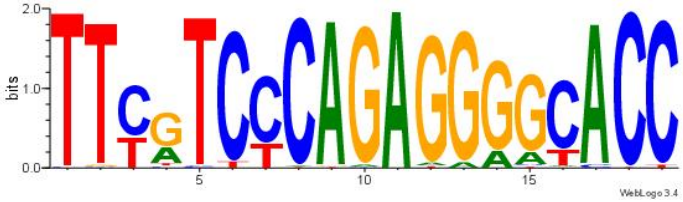

Dataset #: 1
Motif ID: 322
Motif name: Motif 322
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.117613

Alignment:
AGGGCCTTTGCASWTGC
----TTTTAGTAGAGAC

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

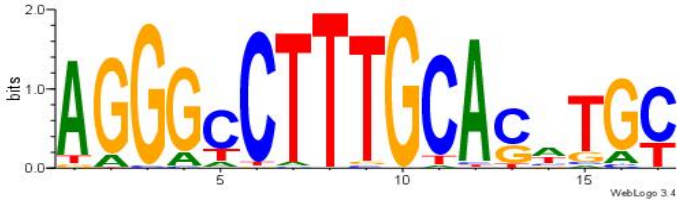

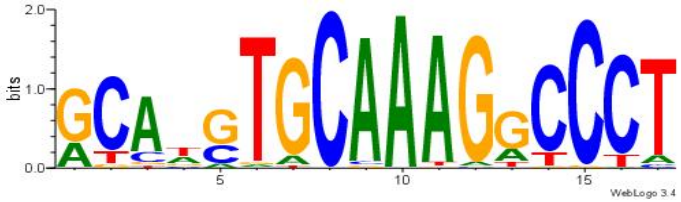

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.118348

Alignment:

```
TCCAAATGGGAGAAATTGGC
----TTTTAGTAGAGAC---
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

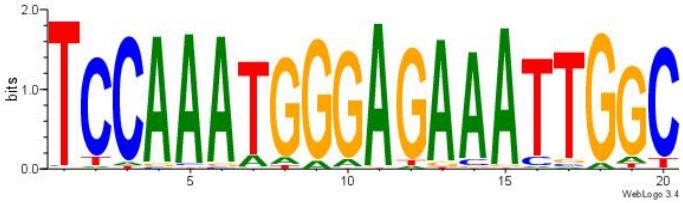

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

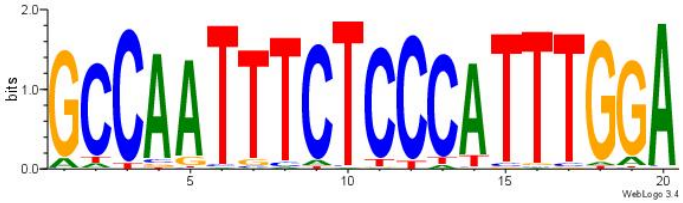

Dataset #: 1 Motif ID: 283 Motif name: Motif 283

Original motif Consensus sequence: GCCCTCACCATCC

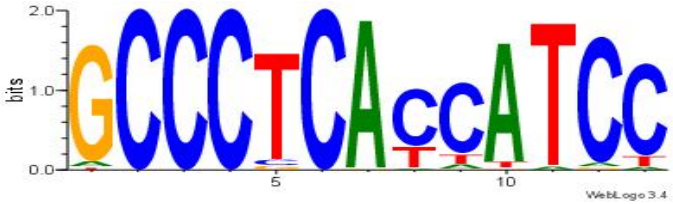

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

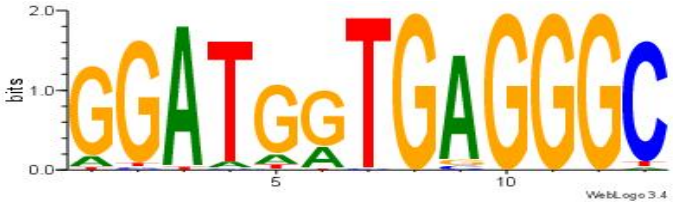

Best Matches for Motif ID 283 (Highest to Lowest)

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0577529

Alignment:

```
GCCCTCACCAGAAGC
GCCCTCACCATCC--
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

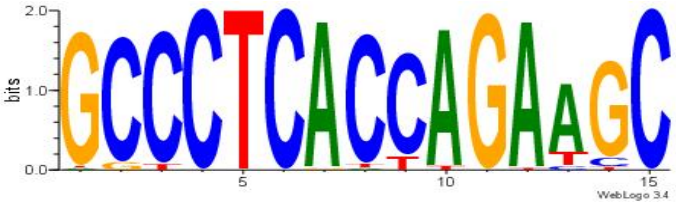

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

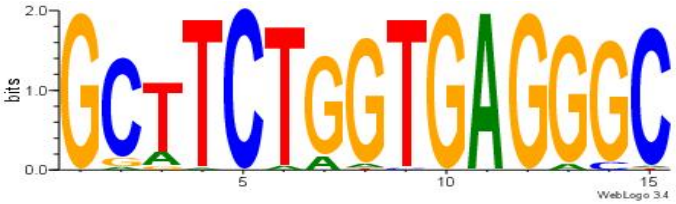

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0747837

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
---GGATGGTGAGGGC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

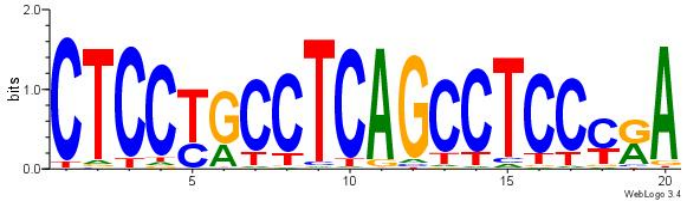

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

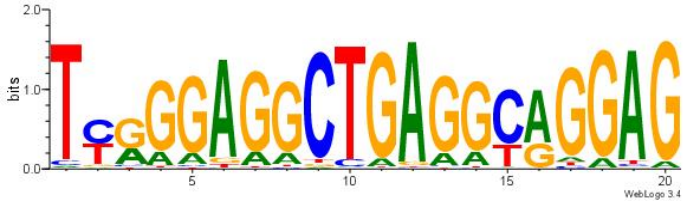

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0759531

Alignment:
GGCTGCGGAGGGTGTA
---GGATGGTGAGGGC

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

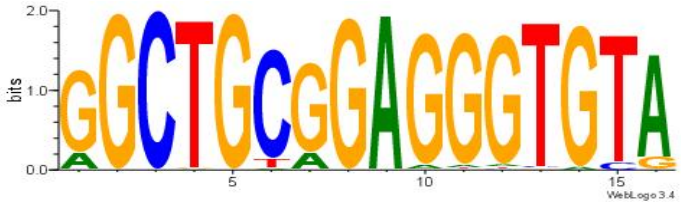

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

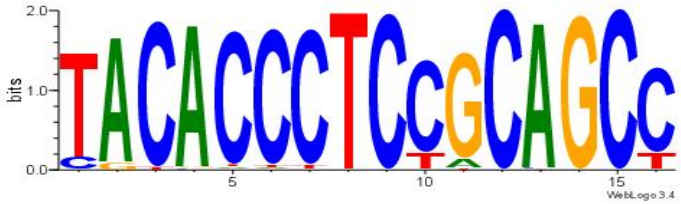

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0811013

Alignment:
CGCACTCCTCAGCC
-GCCCTCACCATCC

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

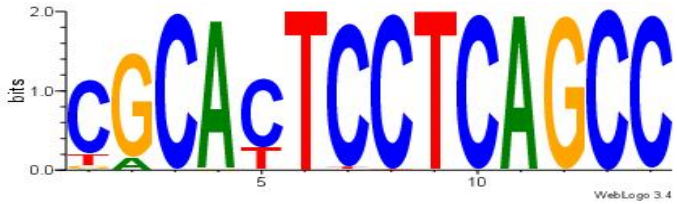

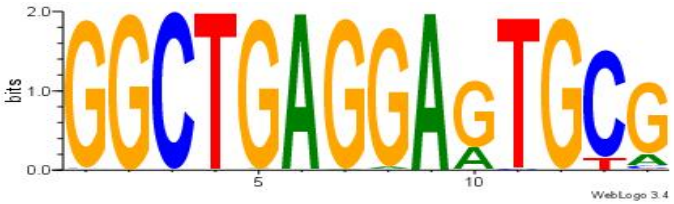

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0835643

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
---GGATGGTGAGGGC----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

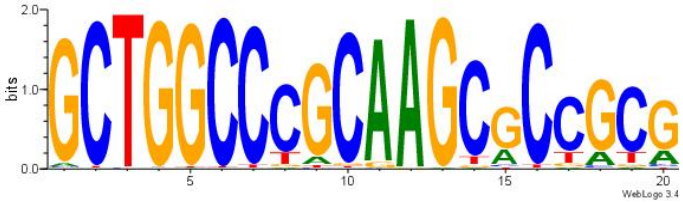

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

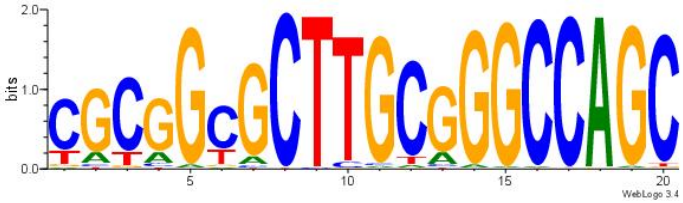

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0888173

Alignment:

```
GGGAGGAAGGGGACAC
--GGATGGTGAGGGC-
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

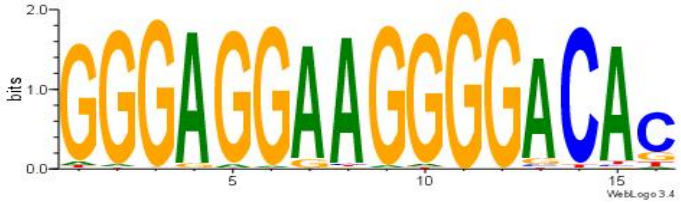

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

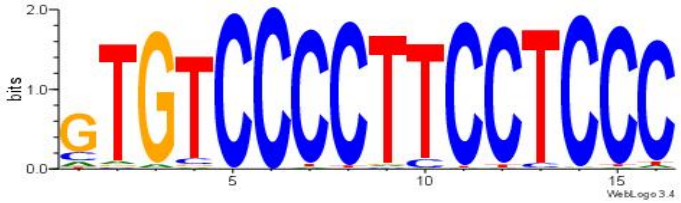

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.0891586

Alignment:
ATGTGGAGGTGGAAGACAGT
----GGATGGTGAGGGC---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

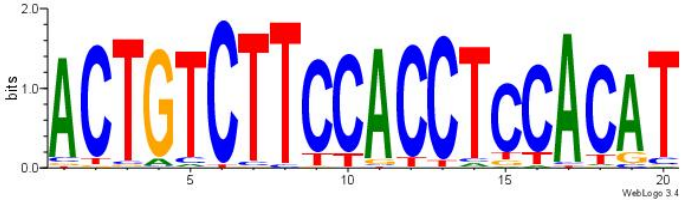

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

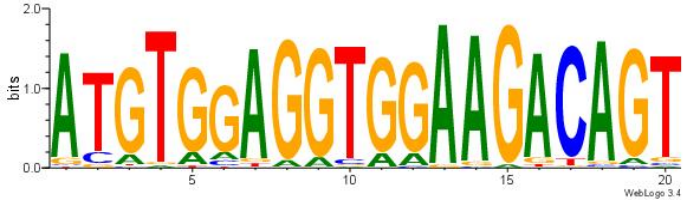

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.0896525

Alignment:
GGAGGTGTGGAGGGAGAGGC
--GGATGGTGAGGGC-----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

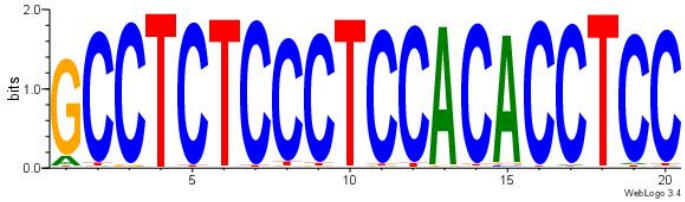

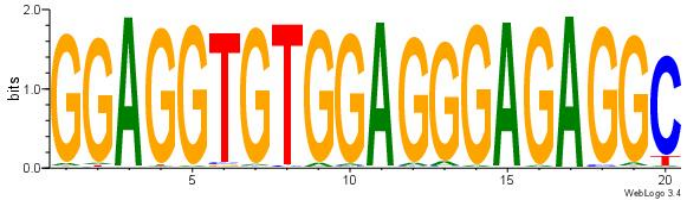

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0908386

Alignment:

```
TGHCCTGCKCCCACTGTCT
GCCCTCACCATCC------
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

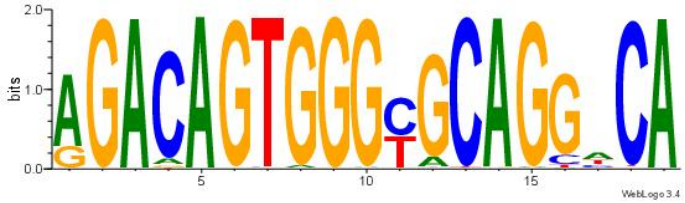

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

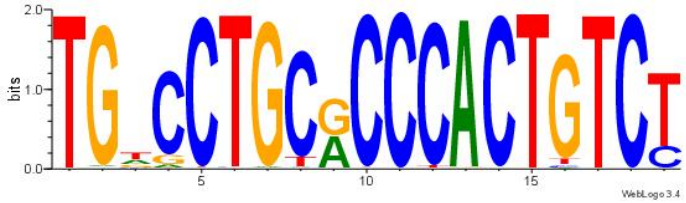

Dataset #:	1

Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0915177

Alignment:

GGACCTTCAGAGC
GGATGGTGAGGGC

Original motif Consensus sequence: GCTCTGAAGGTCC

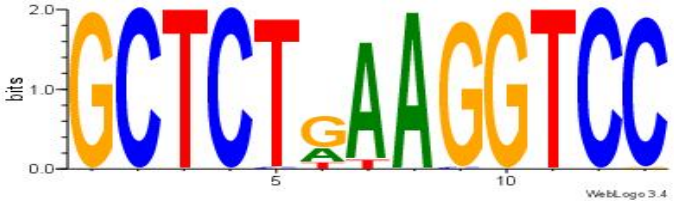

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

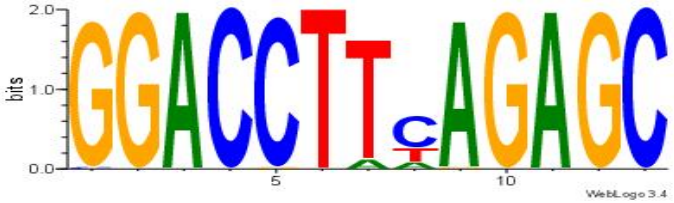

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.0938411

Alignment:
AGGACTGAGGGTGCCYRGGG
-GGATGGTGAGGGC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

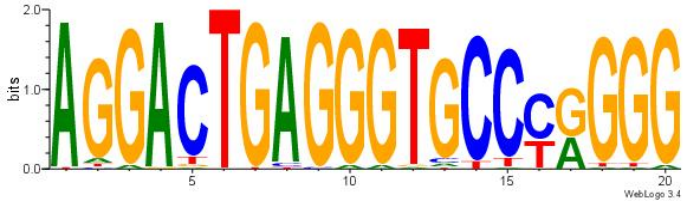

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

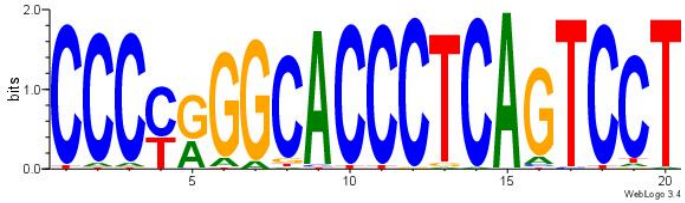

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0940052

Alignment:
AATCAACCCTGGYRATCAAT
-----GCCCTCACCATCC--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

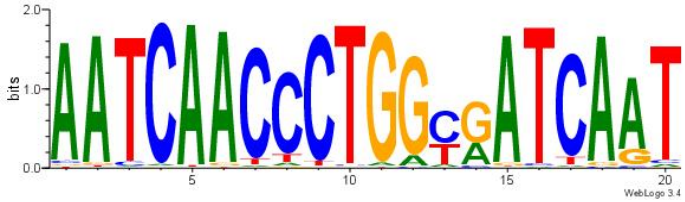

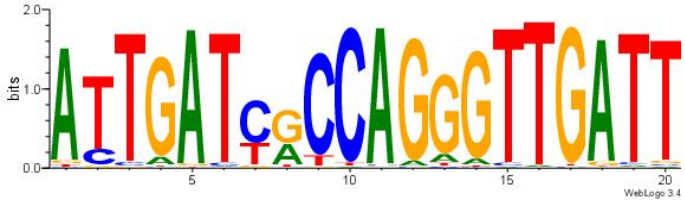

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0944215

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---GGATGGTGAGGGC----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

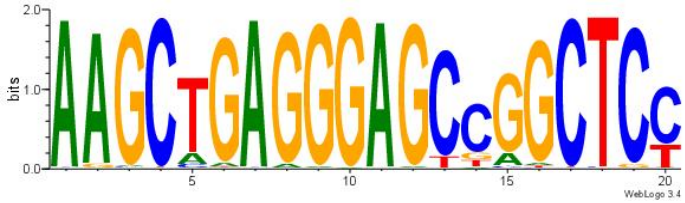

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

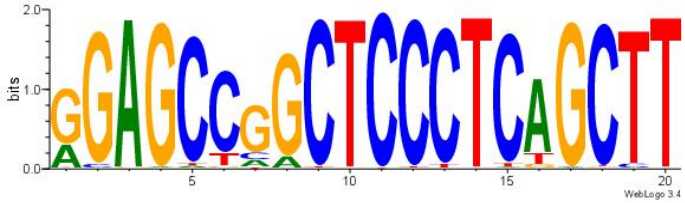

Dataset #: 1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0949304

Alignment:

```
TGCTCACACAAAGCCTGT
----GCCCTCACCATCC-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

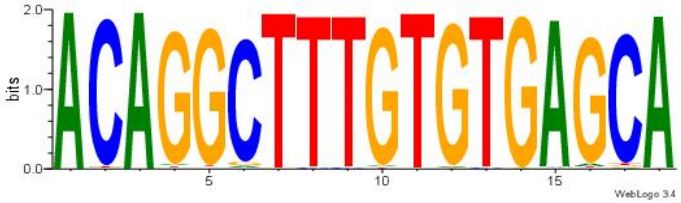

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

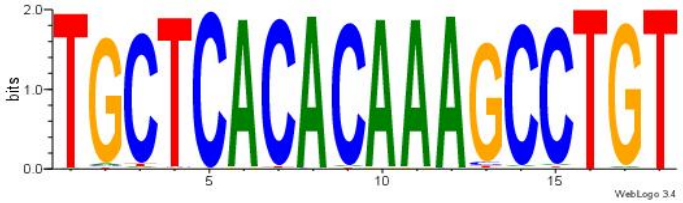

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.0952809

Alignment:
GGGCTCCCACAGTGCAGCGG
-----GCCCTCACCATCC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

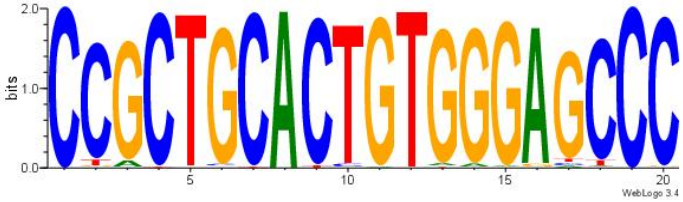

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

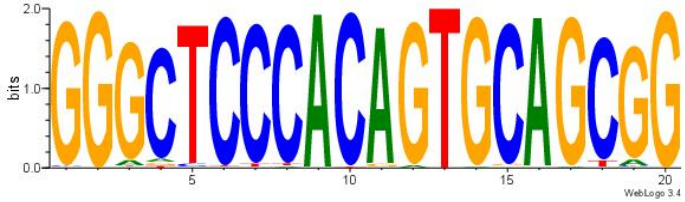

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.0957492

Alignment:
ATTGGTGTATTTACAATCCC
------GCCCTCACCATCC-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

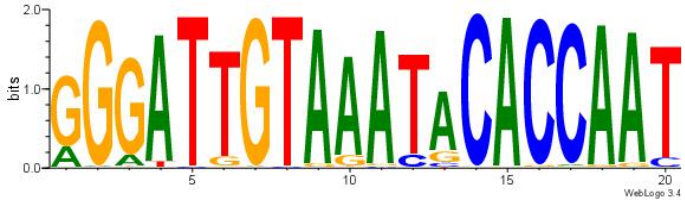

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0960621

Alignment:

```
GTGGCCCTCTTCTCACAGCT
---GCCCTCACCATCC----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

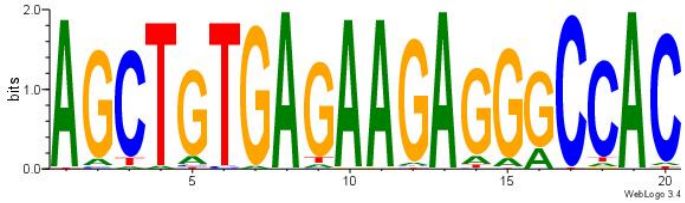

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

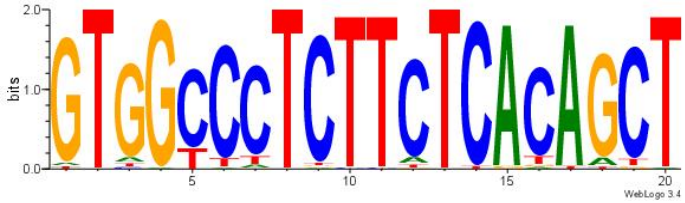

Dataset #:	1

Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0972695

Alignment:

```
VCCDCCTCCKCCTCCTC
--GCCCTCACCATCC--
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

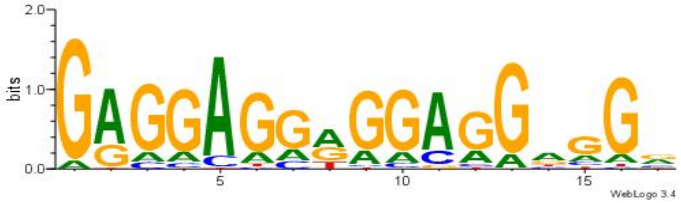

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

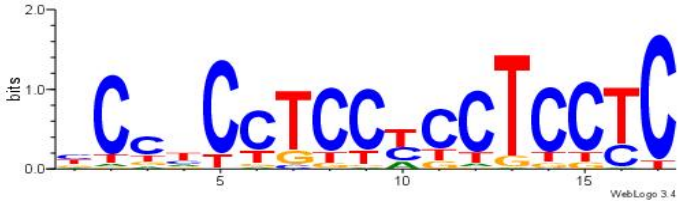

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.0988493

Alignment:
CTCCAGKTMCATCCATGTTG
------GCCCTCACCATCC-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

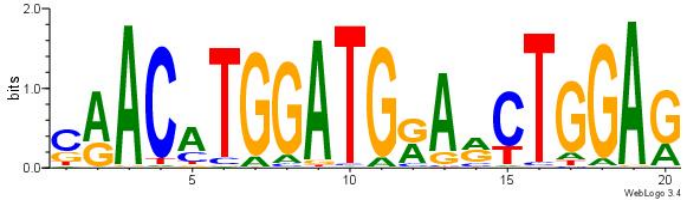

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

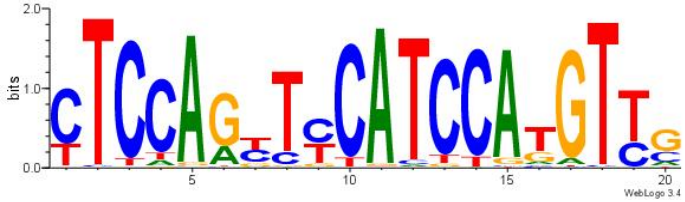

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0989301

Alignment:
KCCGGGCCTTAGCTGCCTTC
---GCCCTCACCATCC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

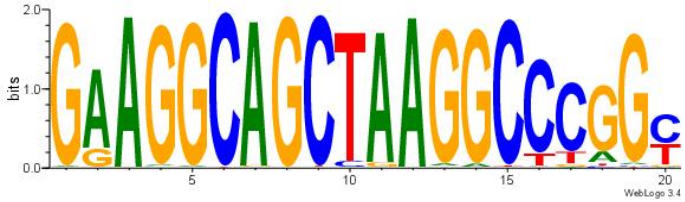

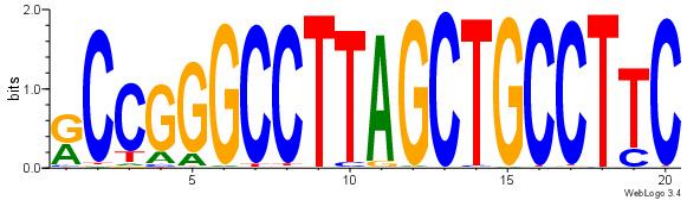

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0990663

Alignment:

```
CCGCGGGGCAGGGCTCG
-GGATGGTGAGGGC---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

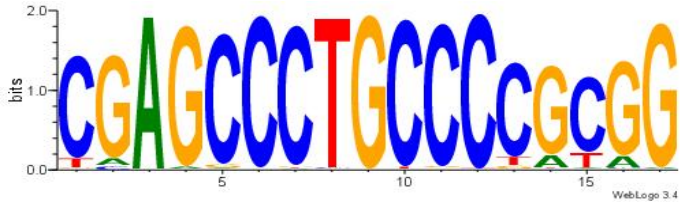

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

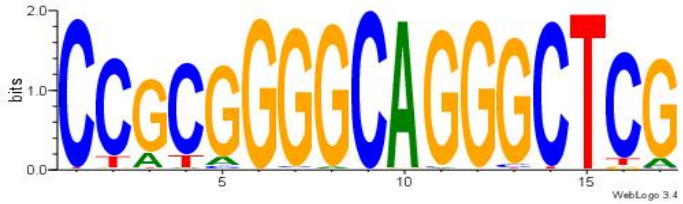

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0991789

Alignment:

```
GGCAATGCCTCGCCCTGCTT
--GCCCTCACCATCC-----
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

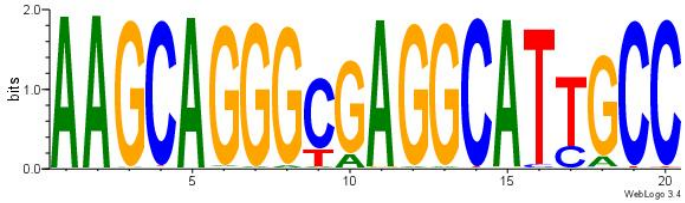

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

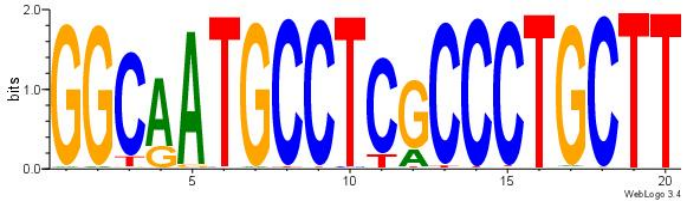

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.100931

Alignment:
AGCTAGAYACAGAGTGC
GGATGGTGAGGGC----

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

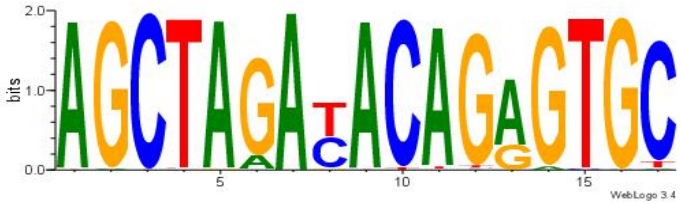

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

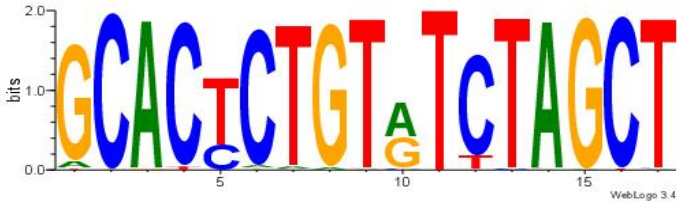

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.102025

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCCCTCACCATCC------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

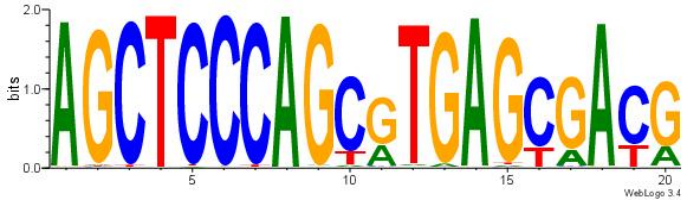

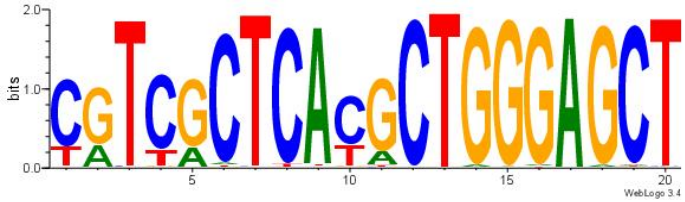

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.102093

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----GGATGGTGAGGGC--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

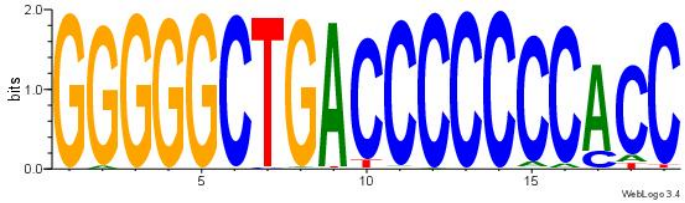

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

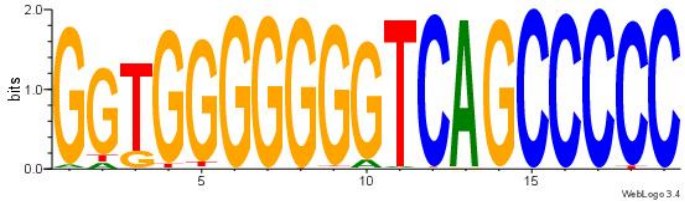

Dataset #: 1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.102349

Alignment:

```
ACGCCCACGGAGTCTC
--GCCCTCACCATCC-
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

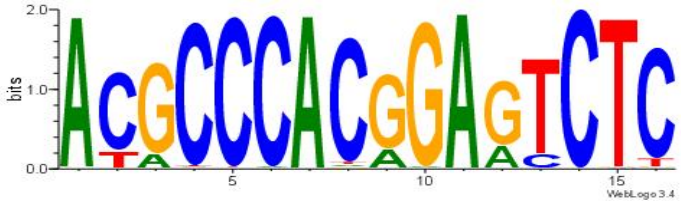

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

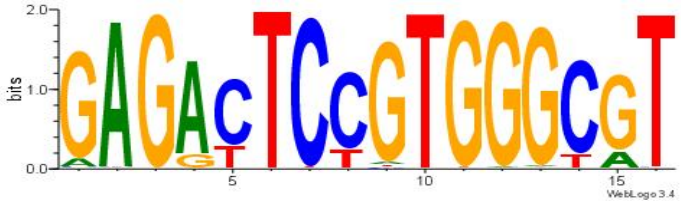

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.103043

Alignment:
CATTCTGGGGTCTGGAGGAY
-------GGATGGTGAGGGC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

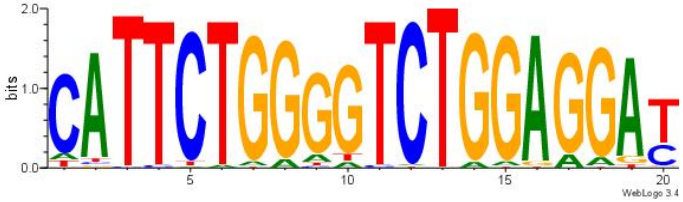

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

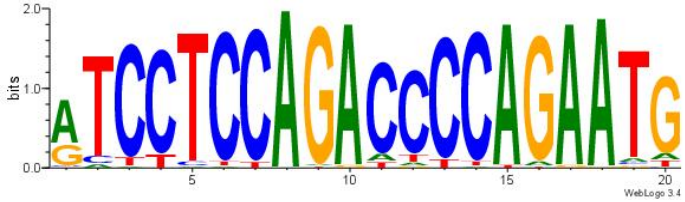

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.103096

Alignment:
CTGGCCCTCAATGGTTAAAC
---GCCCTCACCATCC----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

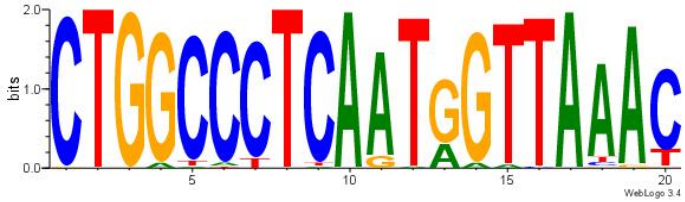

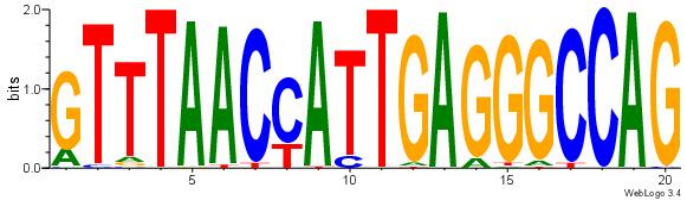

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.103673

Alignment:

```
ACCTGGAAAATCGGGTCACT
---GGATGGTGAGGGC----
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

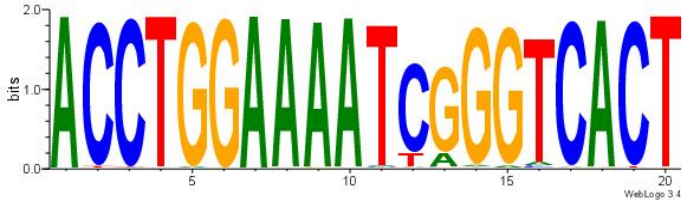

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

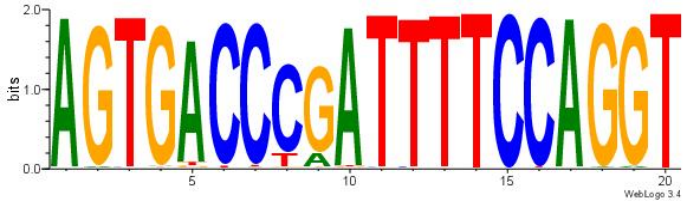

Dataset #: 1

Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.104887

Alignment:

```
ATATTGATGATCCTGACC
-GGATGGTGAGGGC----
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

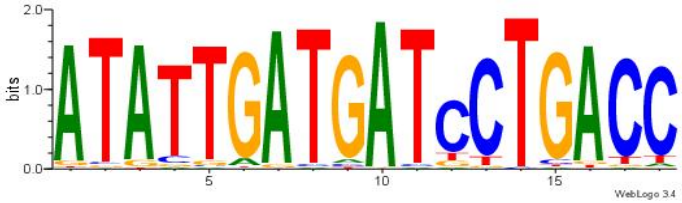

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

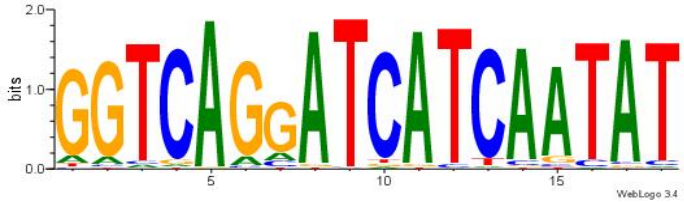

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.105306

Alignment:
GGGTGCAGGMGGGCTGAGT
-GGATGGTGAGGGC-----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

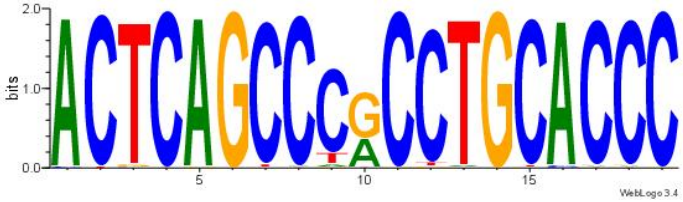

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

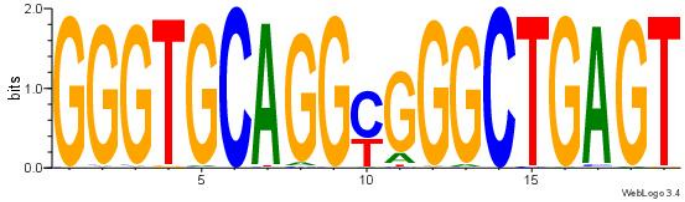

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.105445

Alignment:
CCCGAAGCTGCRYRCTCGGT
-----GGATGGTGAGGGC--

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

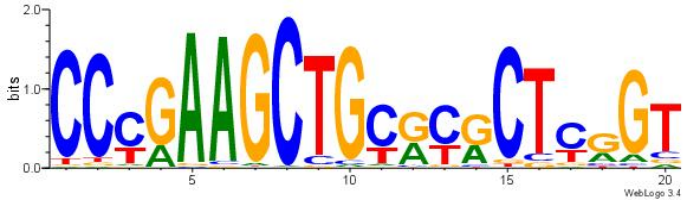

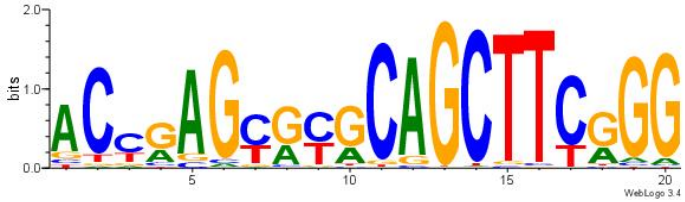

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.108001

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-GCCCTCACCATCC------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

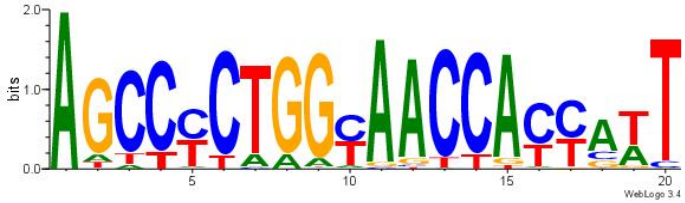

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

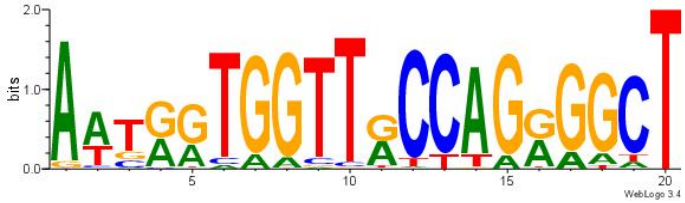

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.108208

Alignment:

```
CGGCGCTGMGCTCGATTTCT
GCCCTCACCATCC-------
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

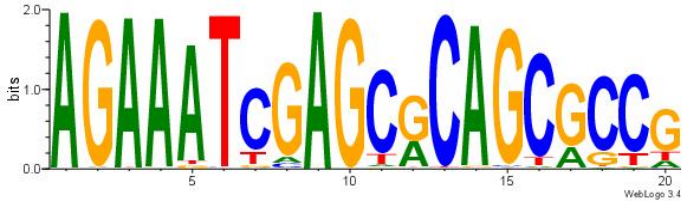

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

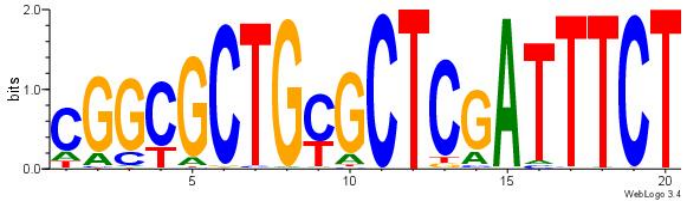

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.108946

Alignment:
GTAACACTCACCGCGARGGT
---GCCCTCACCATCC----

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

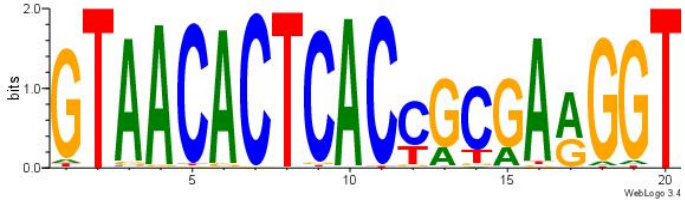

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

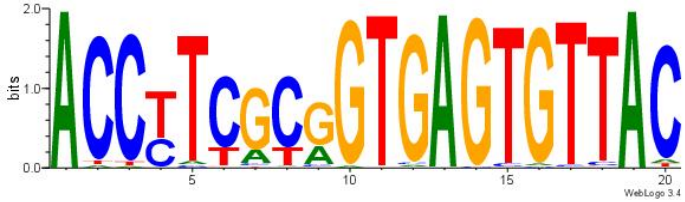

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.109776

Alignment:
CGAGCCTCCCCGAYGAGCGC
------GCCCTCACCATCC-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

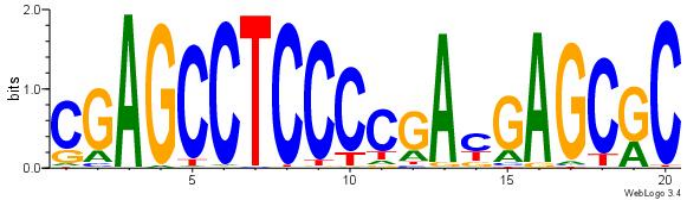

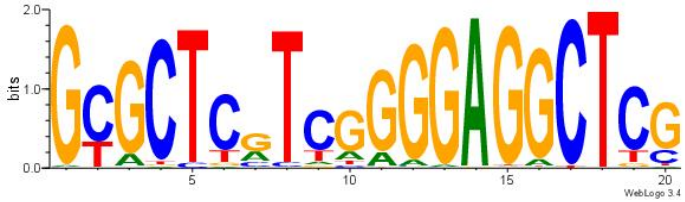

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.109808

Alignment:

```
AGGGATCTAGGTTGCR
-GGATGGTGAGGGC--
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

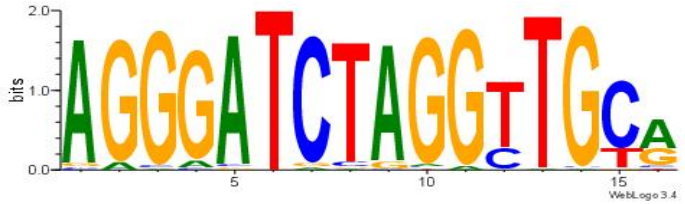

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

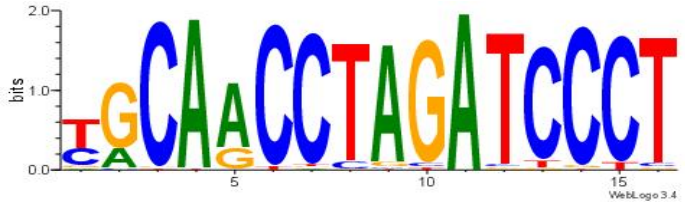

Dataset #: 1

Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.110269

Alignment:

```
AAGACGGGTGATTTCTG
--GGATGGTGAGGGC--
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

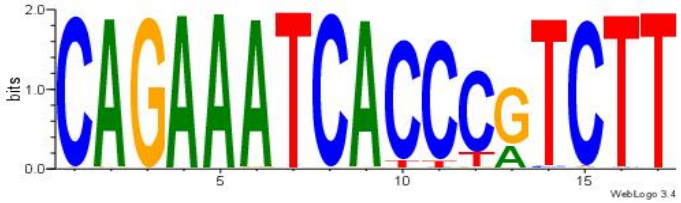

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

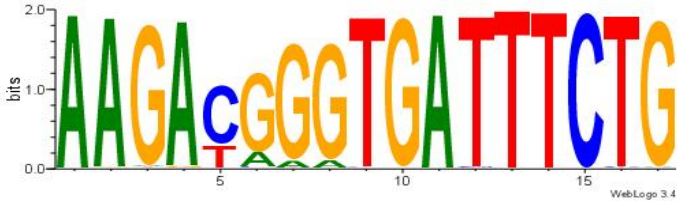

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.110524

Alignment:
AACTGAGGCTCAGAGA
---GGATGGTGAGGGC

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

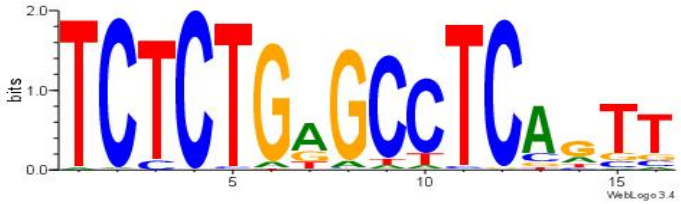

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

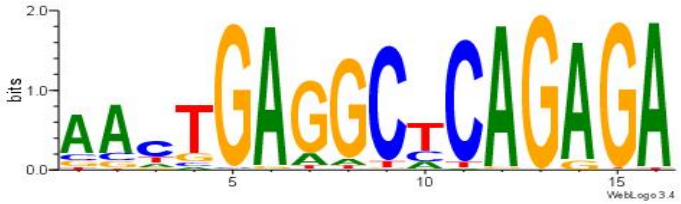

Dataset #: 1
Motif ID: 323
Motif name: Motif 323
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.110586

Alignment:
GCTCTCAGGTCCA
GCCCTCACCATCC

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

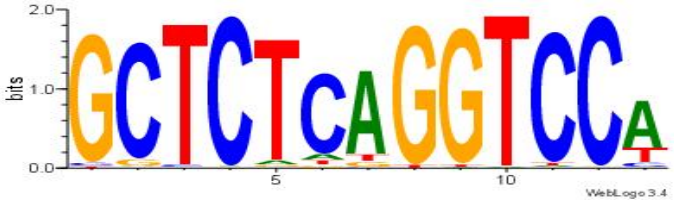

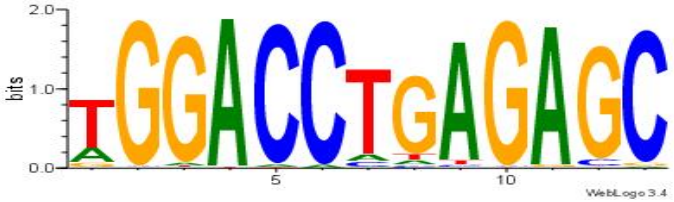

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110625

Alignment:

```
GGATCCACTGGGTGAAGCCA
-GGATGGTGAGGGC------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

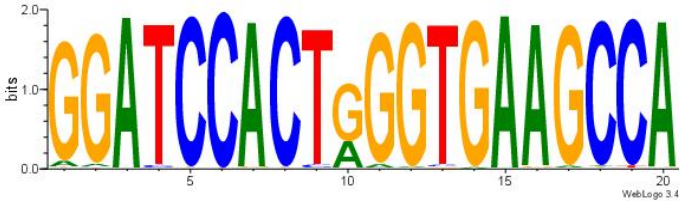

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

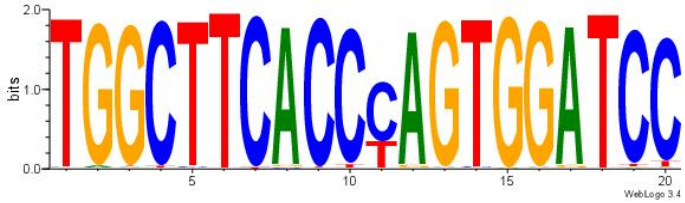

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.110682

Alignment:

```
CGCCCATCGTCTGGGATGT
---GGATGGTGAGGGC---
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

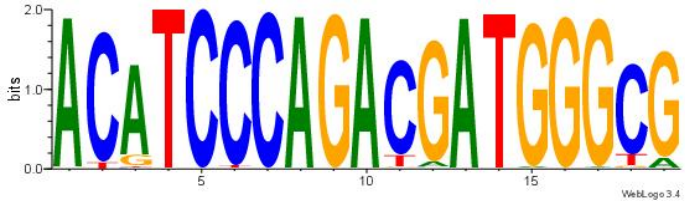

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

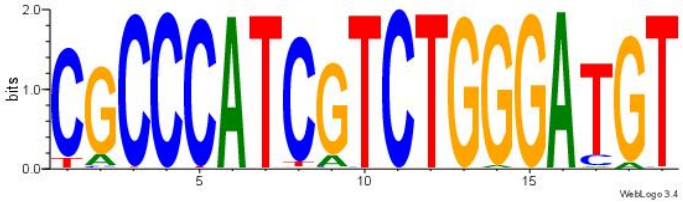

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.110784

Alignment:
GGCACTGCTGGGGGACCCAG
--GGATGGTGAGGGC-----

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

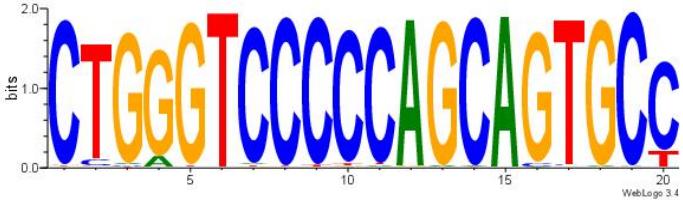

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

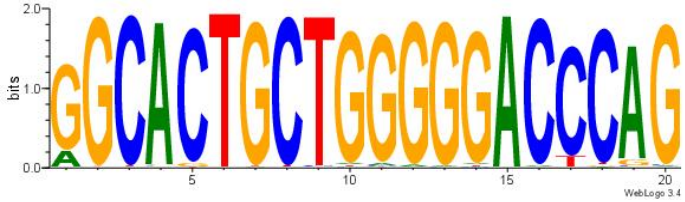

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.110834

Alignment:
CTTGGGTGGTCGATGGGAC
----GGATGGTGAGGGC--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

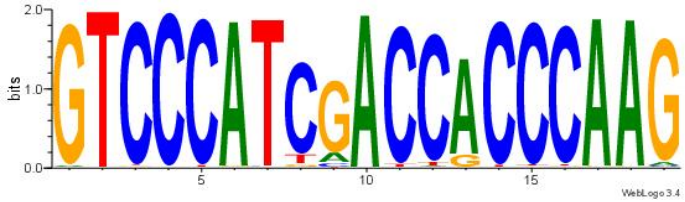

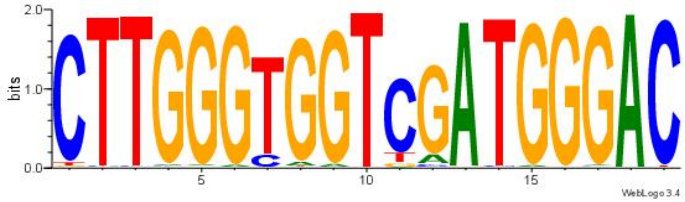

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.111076

Alignment:

```
GAAACTGCTTTGTGATGTGT
------GGATGGTGAGGGC-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

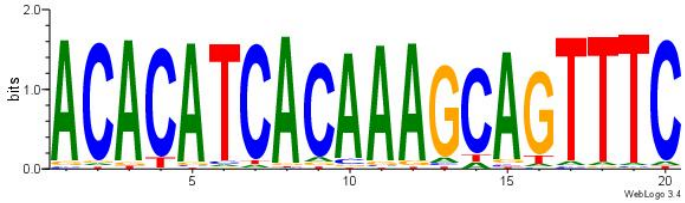

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

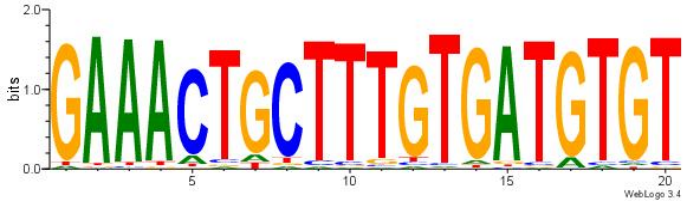

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.111215

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
----GGATGGTGAGGGC---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

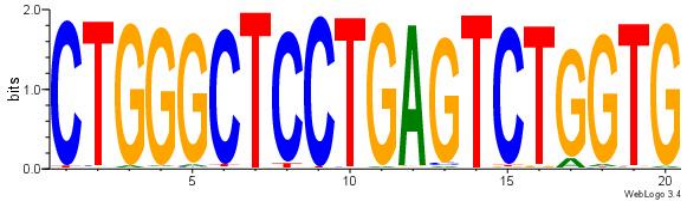

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

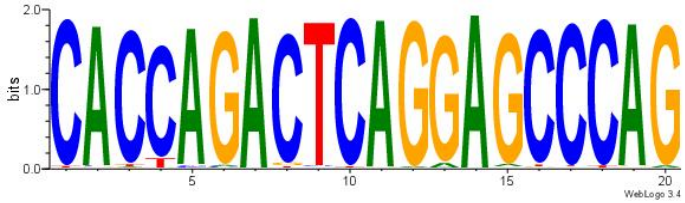

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.111805

Alignment:
ATGATCCAGCAATYCCACTH
--GCCCTCACCATCC-----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

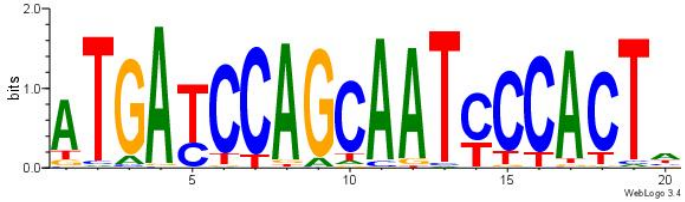

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

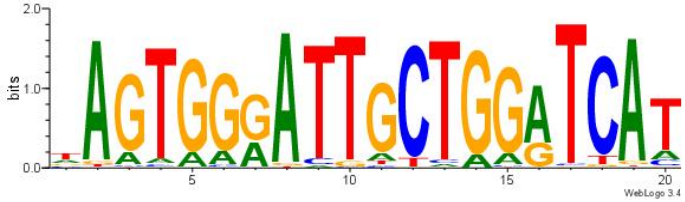

Dataset #: 1
Motif ID: 39
Motif name: Motif 39
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.112674

Alignment:
AGGCGGCTGGGAGG
GGATGGTGAGGGC-

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

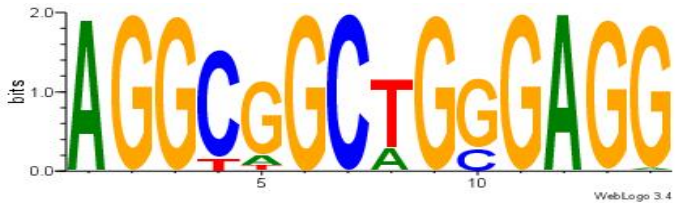

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.112963

Alignment:

```
TAMGACCTCAGGTCCTCAG
---GCCCTCACCATCC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

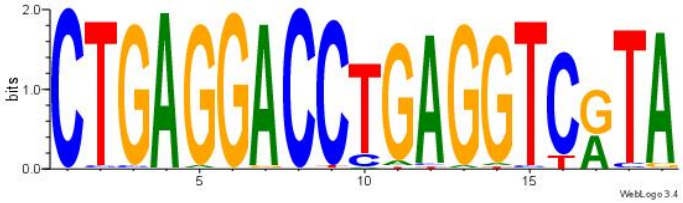

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

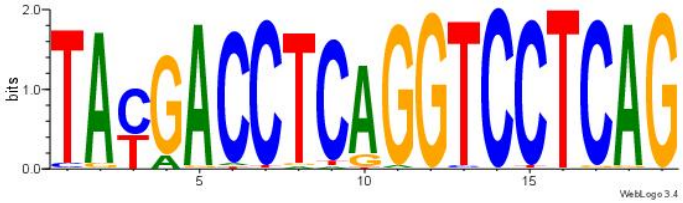

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.113235

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-------GGATGGTGAGGGC
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

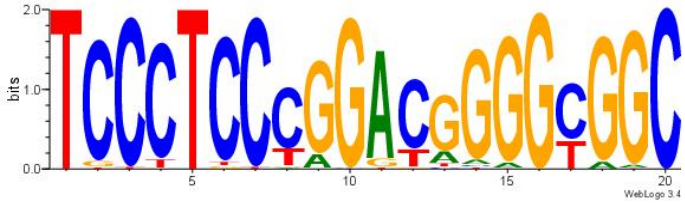

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

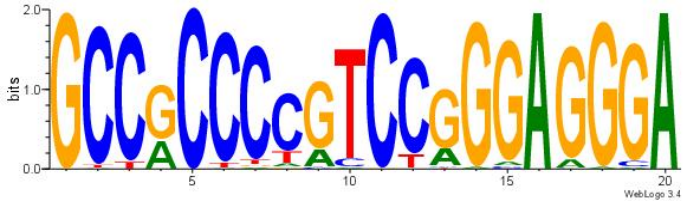

Dataset #: 1 Motif ID: 284 Motif name: Motif 284

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

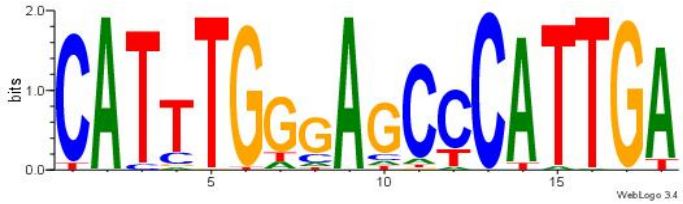

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

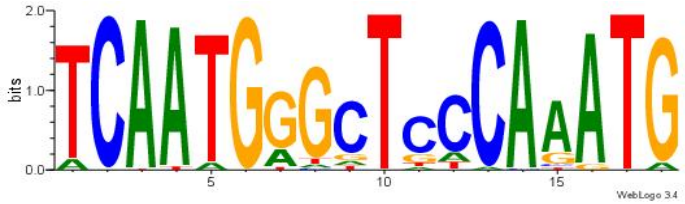

Best Matches for Motif ID 284 (Highest to Lowest)

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0934546

Alignment:
CCTTGGCCAGCCCAGAAAG
CATTTGGGAGCCCATTGA-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

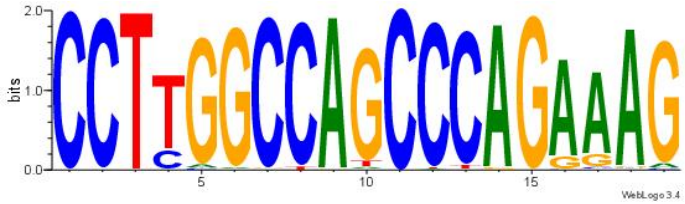

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

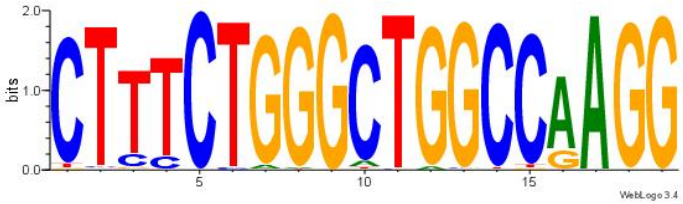

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.105262

Alignment:
GCCAATTTCTCCCATTTGGA
TCAATGGGCTCCCAAATG--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

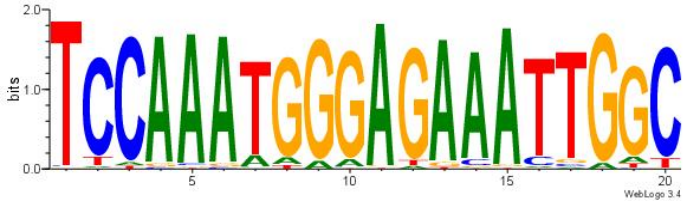

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

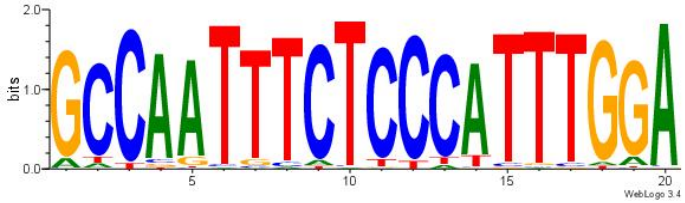

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.106572

Alignment:
GGCATCACGGATCCTACCAA
--CATTTGGGAGCCCATTGA

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

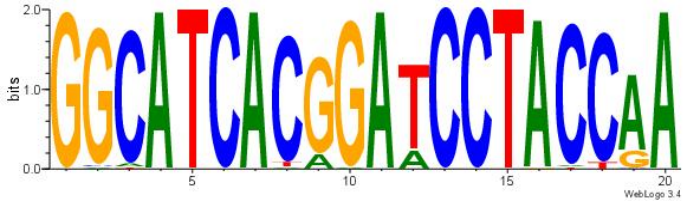

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

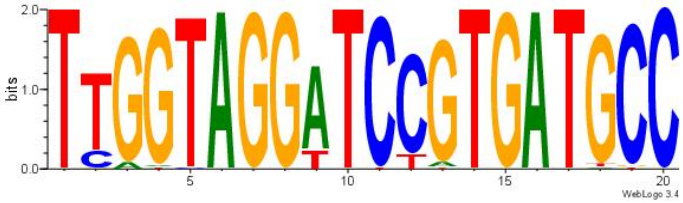

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.107655

Alignment:

```
CTCCAGKTMCATCCATGTTG
-TCAATGGGCTCCCAAATG-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

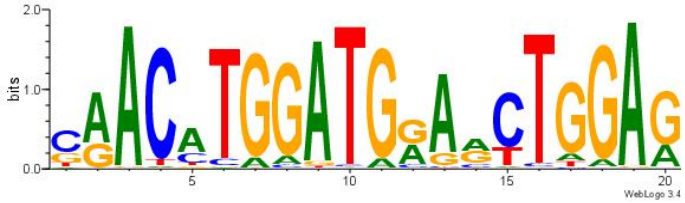

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

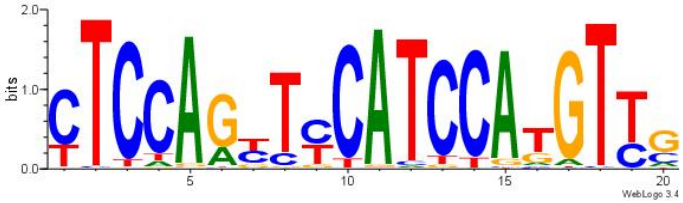

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.111838

Alignment:
GACATGAGCTGGCGCTTG
TCAATGGGCTCCCAAATG

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

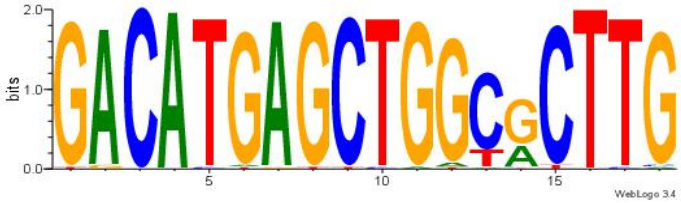

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

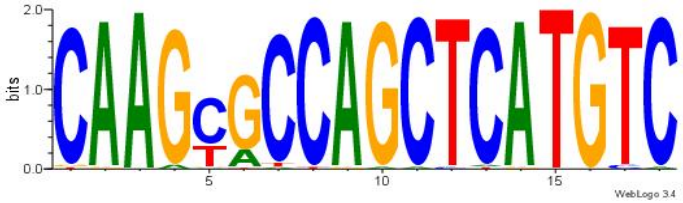

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 18
Similarity score: 0.11855

Alignment:
GTTGTGAGGATTAAATGAG
-CATTTGGGAGCCCATTGA

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

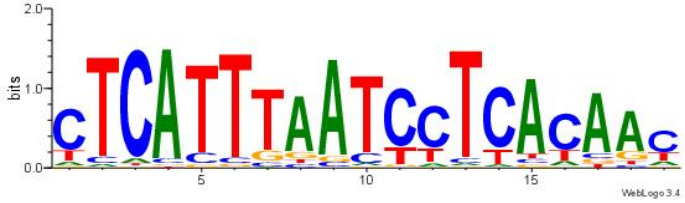

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

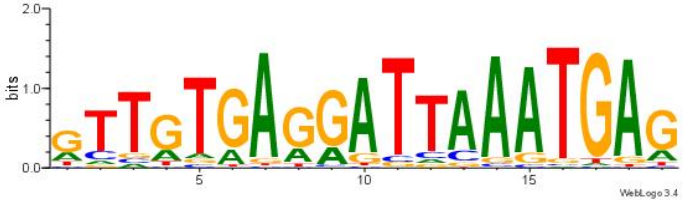

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.119888

Alignment:
AGTAGGTGCTCARTAAATRB
--TCAATGGGCTCCCAAATG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

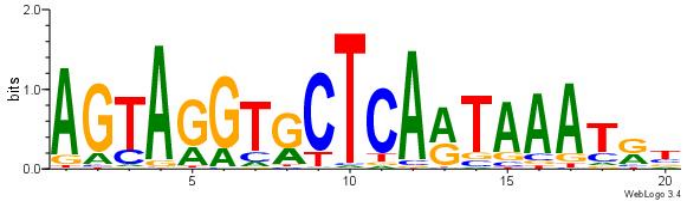

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

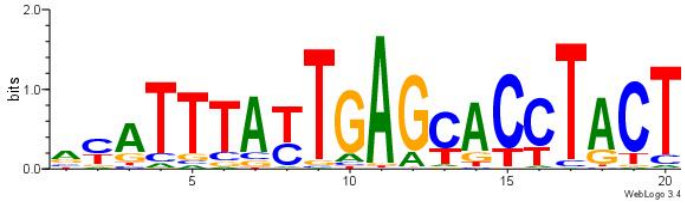

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.120142

Alignment:

```
GGATTTMKGACTTGCATGGG
-CATTTGGGAGCCCATTGA-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

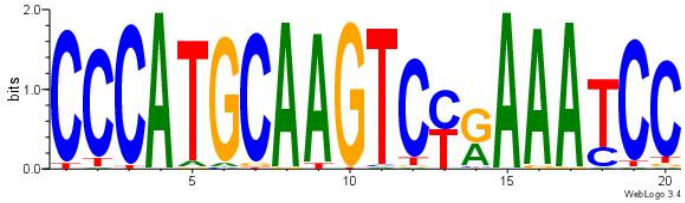

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

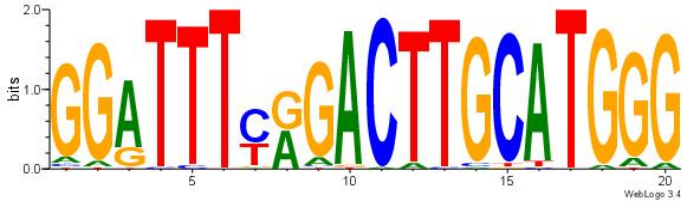

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.12068

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
TCAATGGGCTCCCAAATG--
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

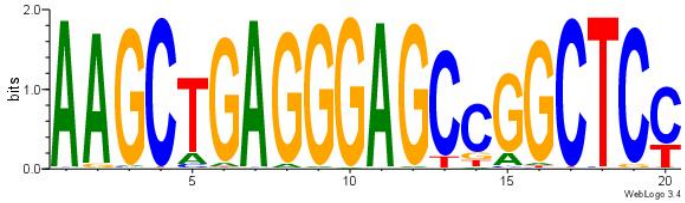

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

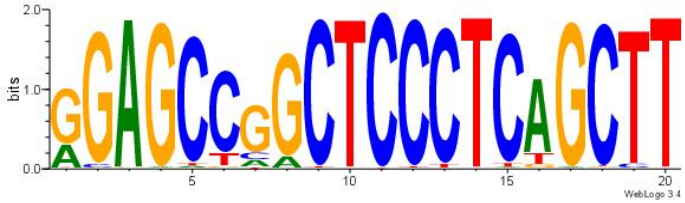

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.122836

Alignment:
CTTGCGCTTCCCRRGTGA
CATTTGGGAGCCCATTGA

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

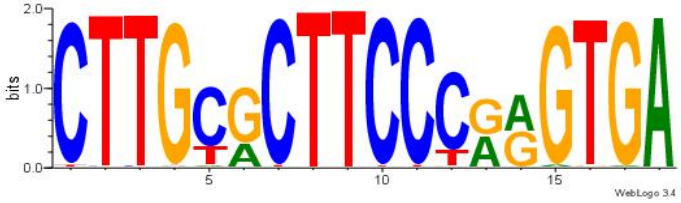

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

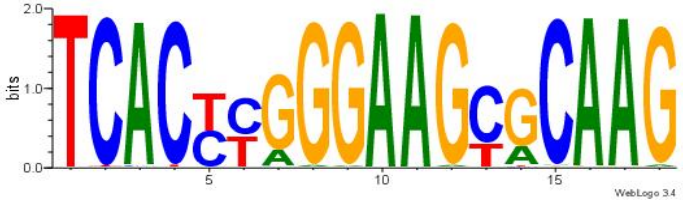

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.123579

Alignment:
AAATTAGGCCAATTAATAAC
-CATTTGGGAGCCCATTGA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

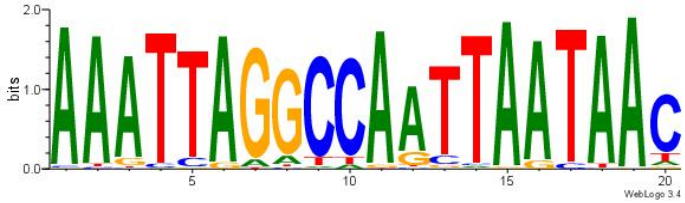

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.123995

Alignment:

```
AGCCYCTGGYAACCAYYAWT
TCAATGGGCTCCCAAATG--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

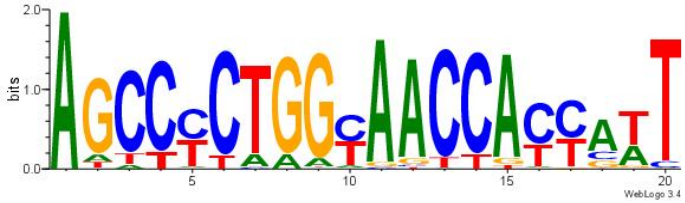

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

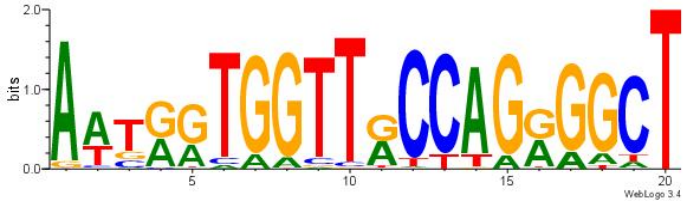

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.12691

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-CATTTGGGAGCCCATTGA-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

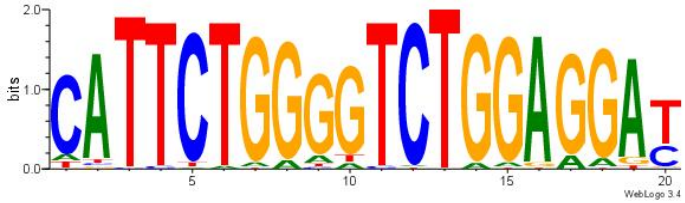

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

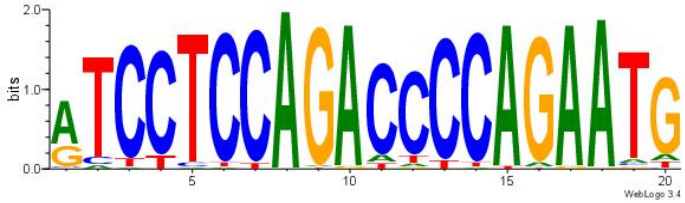

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 18
Similarity score: 0.12713

Alignment:
GTGCCAGGCACTGTKCTARG
TCAATGGGCTCCCAAATG--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

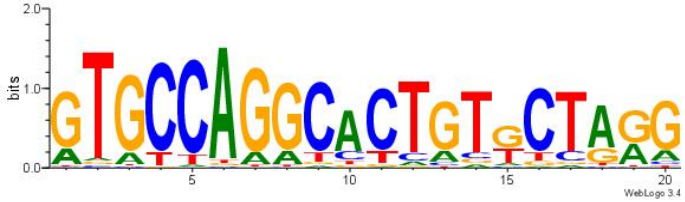

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

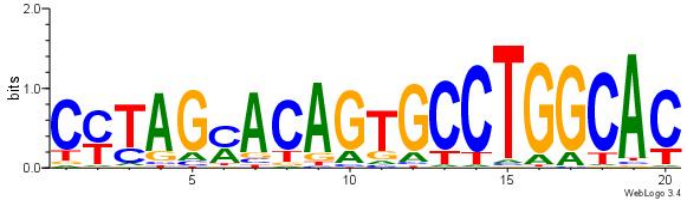

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.127242

Alignment:
CTCCTGCCTCAGCCTCCCRA
--CATTTGGGAGCCCATTGA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

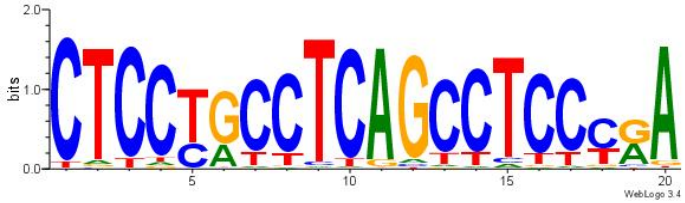

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

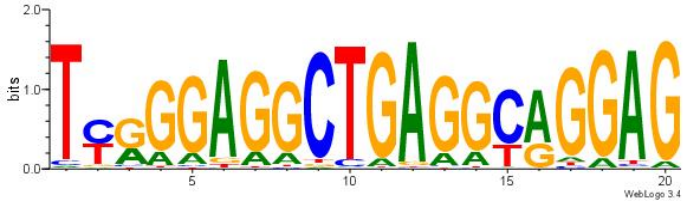

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.127612

Alignment:

```
GTKTMTATMTACCACATTTT
CATTTGGGAGCCCATTGA--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

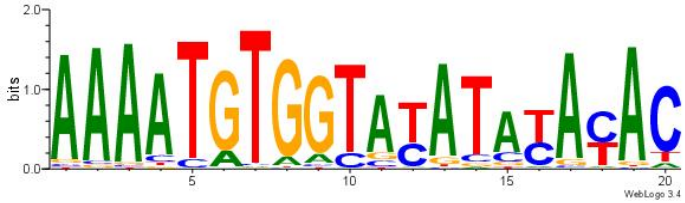

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

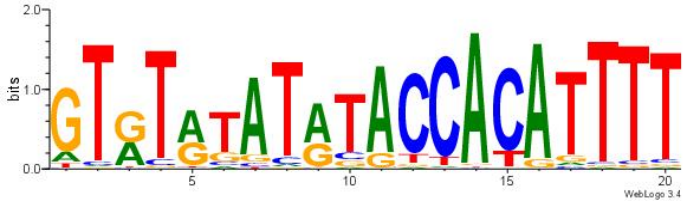

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.128321

Alignment:

```
ACTTTGGACTGTGGACTTTT
TCAATGGGCTCCCAAATG--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

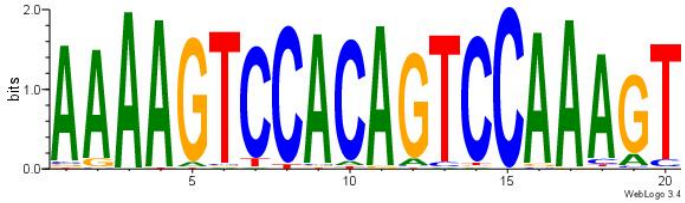

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

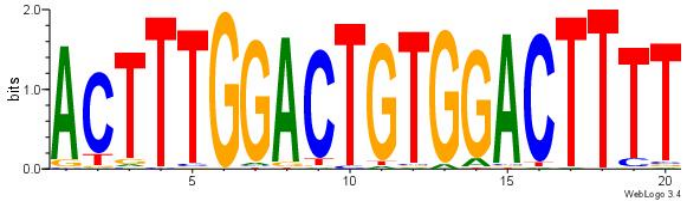

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.128588

Alignment:
TCCTATGAGAATCTAATG
TCAATGGGCTCCCAAATG

Original motif Consensus sequence: CATTAGATTCTCATAGGA

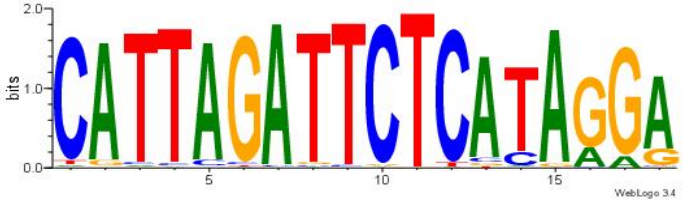

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

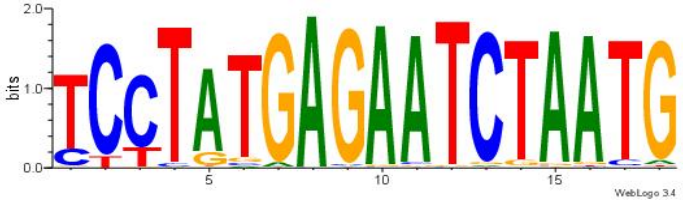

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.130352

Alignment:
CTGACTGGGAGACACCTCCC
-CATTTGGGAGCCCATTGA-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

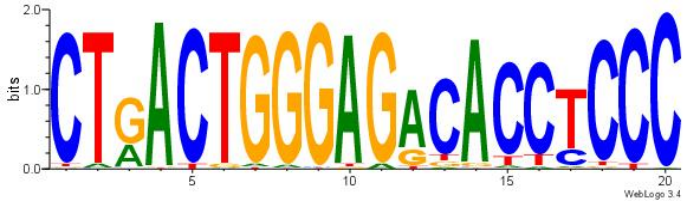

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

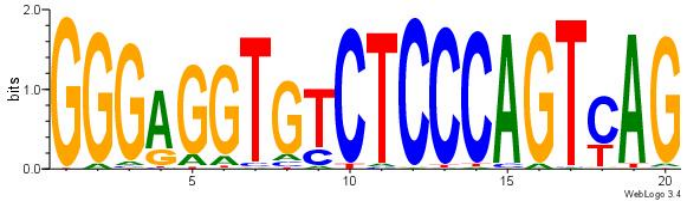

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.130523

Alignment:

```
CTTGCCCAAGGTCACACAGC
--CATTTGGGAGCCCATTGA
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

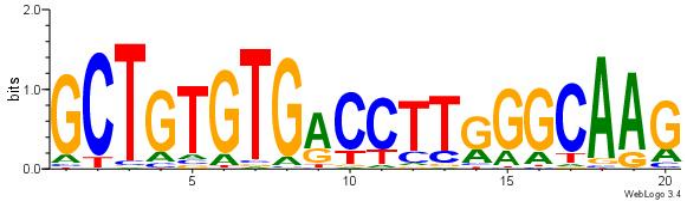

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

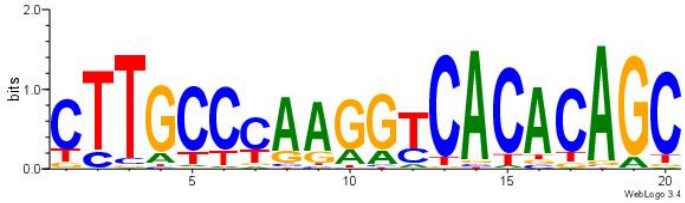

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.130886

Alignment:

```
ACACATCACAAAGCAGTTTC
-CATTTGGGAGCCCATTGA-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

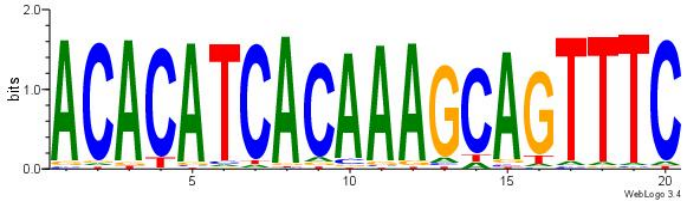

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

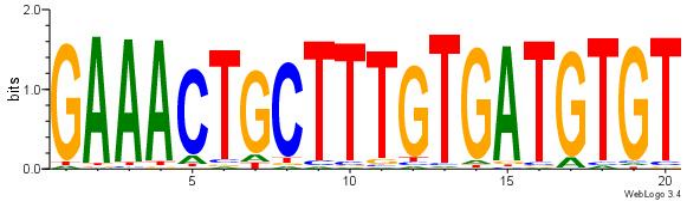

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 18
Similarity score: 0.131049

Alignment:
CAAGTTGACACATAAAATTA
TCAATGGGCTCCCAAATG--

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

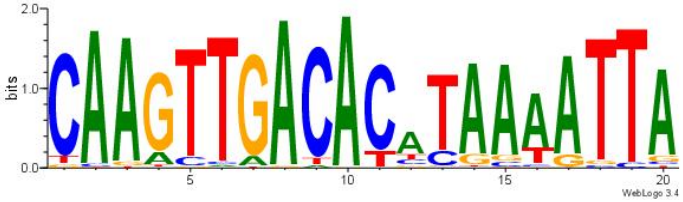

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

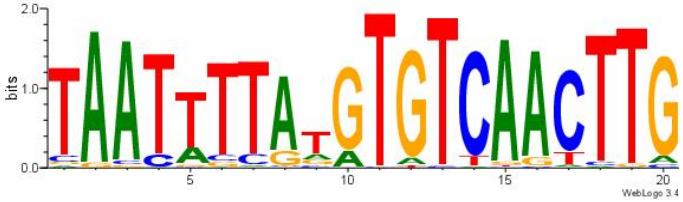

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.131351

Alignment:
GAAAGGGAACTCCCTGACCC
-TCAATGGGCTCCCAAATG-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

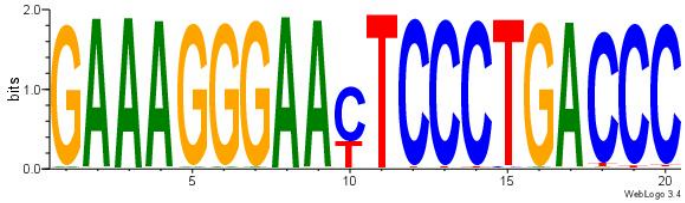

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

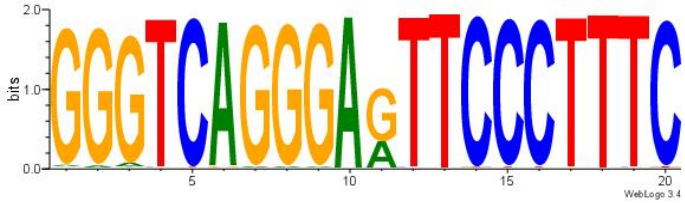

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.132238

Alignment:

```
ACCCAATWTGTAGTCTTTTA
CATTTGGGAGCCCATTGA--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

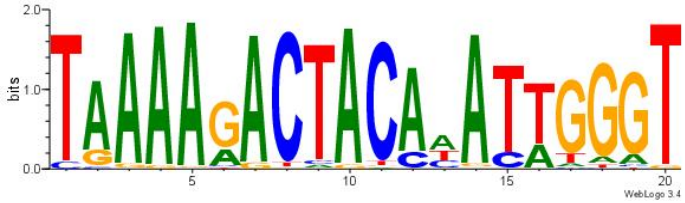

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

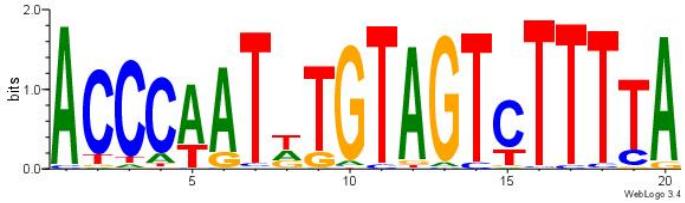

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.132371

Alignment:

```
ATGTAACCAAAYACCACCTG
--TCAATGGGCTCCCAAATG
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

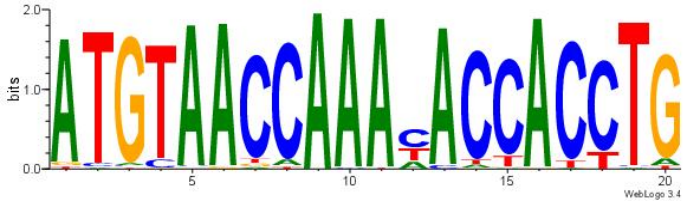

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

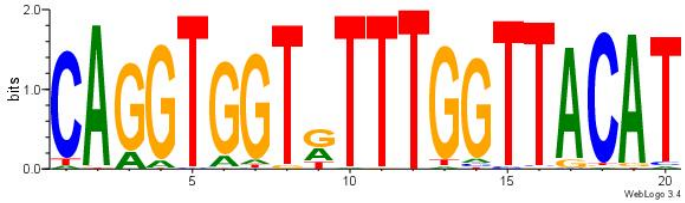

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 18
Similarity score: 0.133064

Alignment:
ATCTCASAAATCACCACTA
TCAATGGGCTCCCAAATG-

Original motif Consensus sequence: ATCTCASAAATCACCACTA

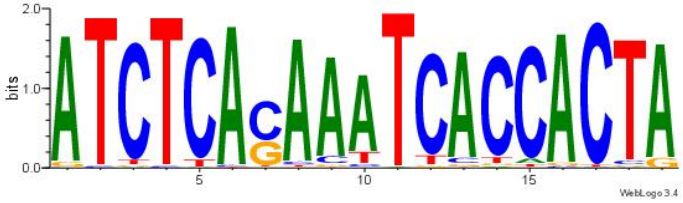

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

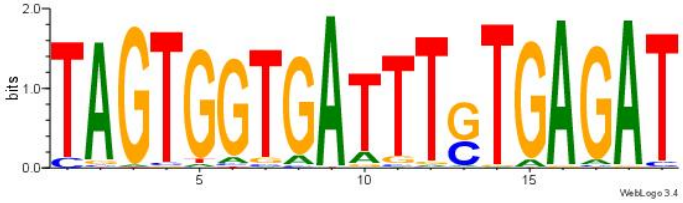

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.133254

Alignment:
AAGTTCTKGGKTACATGTGC
CATTTGGGAGCCCATTGA--

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

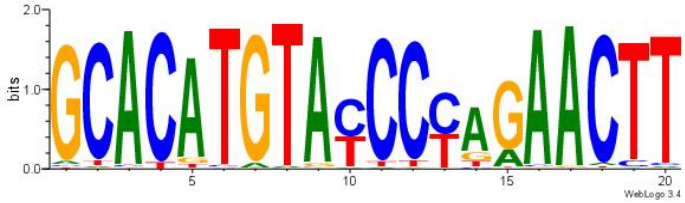

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

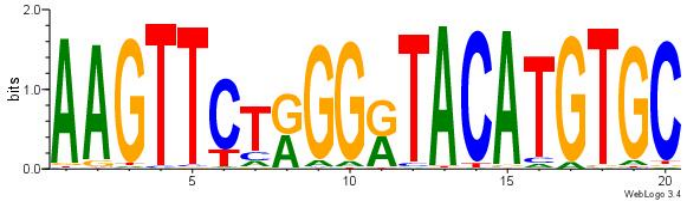

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.135042

Alignment:

```
TGCCCAGTCTGGAAAGTG
TCAATGGGCTCCCAAATG
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

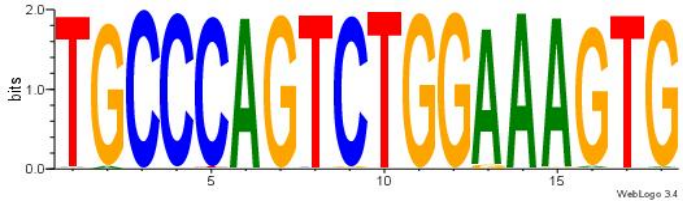

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

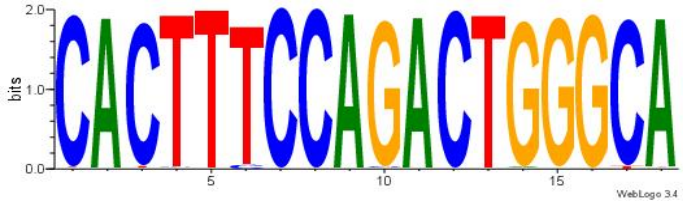

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.135943

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-CATTTGGGAGCCCATTGA
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

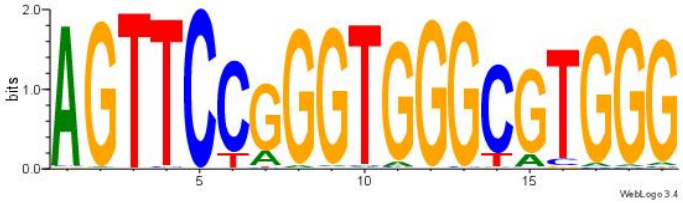

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

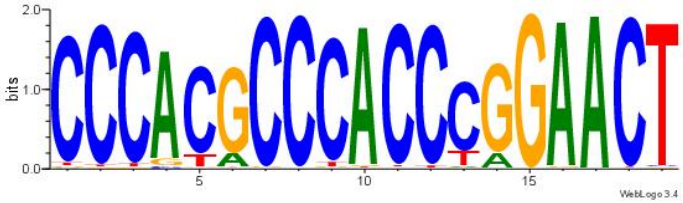

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 18
Similarity score: 0.136448

Alignment:
TACCTGAGACTGGGTAATTT
-TCAATGGGCTCCCAAATG-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

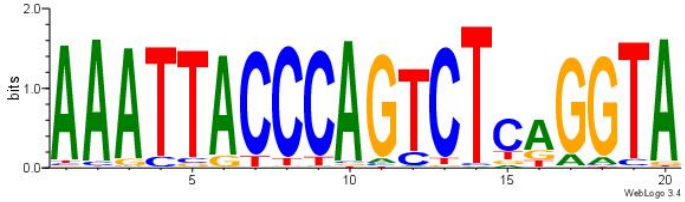

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

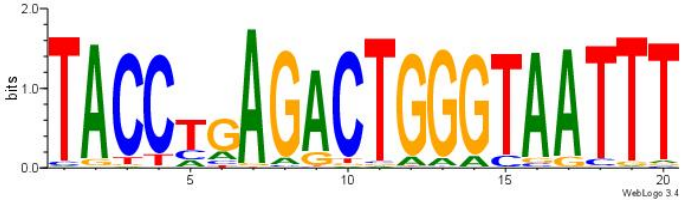

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.137048

Alignment:
GGGATTGTAAATACACCAAT
-CATTTGGGAGCCCATTGA-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

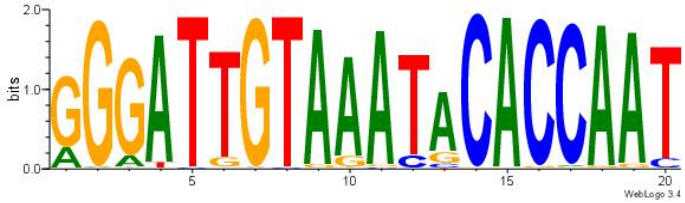

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.137114

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--CATTTGGGAGCCCATTGA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

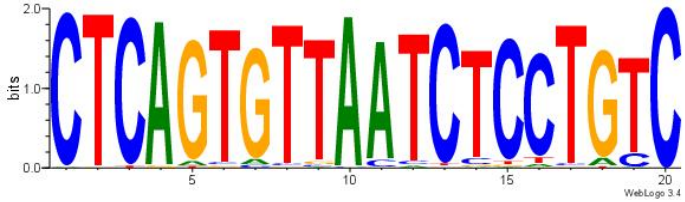

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

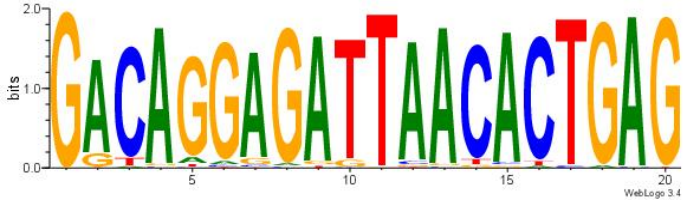

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.137435

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-CATTTGGGAGCCCATTGA-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

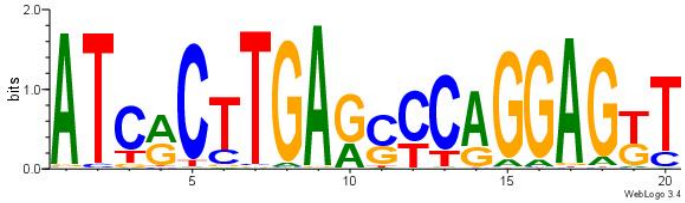

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

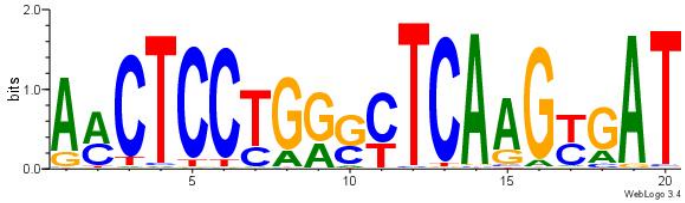

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.137981

Alignment:
CTATTGTGAATARTGCTGC
-CATTTGGGAGCCCATTGA

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

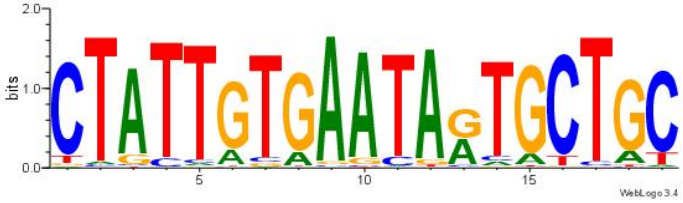

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

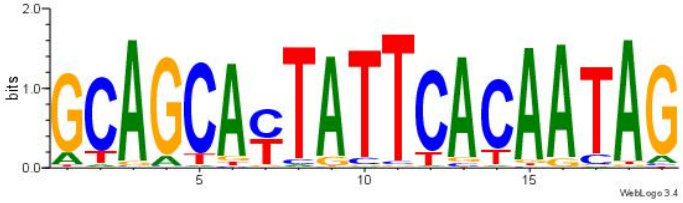

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.138107

Alignment:
GCTCCACCCAGTTCGAGCTT
--TCAATGGGCTCCCAAATG

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

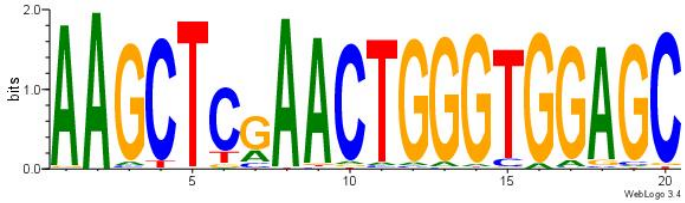

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

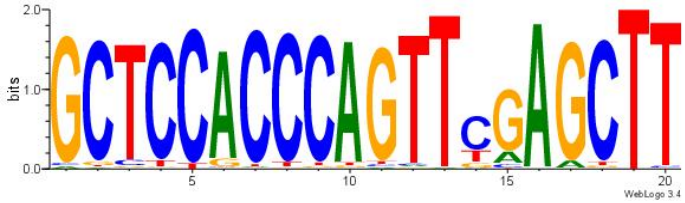

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.138699

Alignment:

```
AGGAACAGCTCCRGTCTAC
-TCAATGGGCTCCCAAATG
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

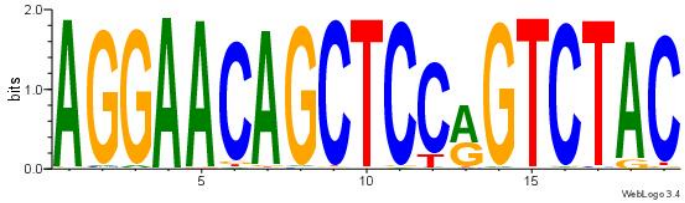

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

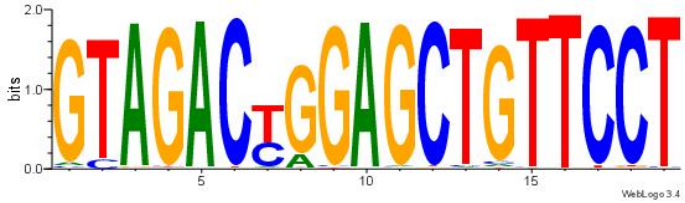

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.139602

Alignment:

```
AGGTTTGTTACATAGGTAWA
-CATTTGGGAGCCCATTGA-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

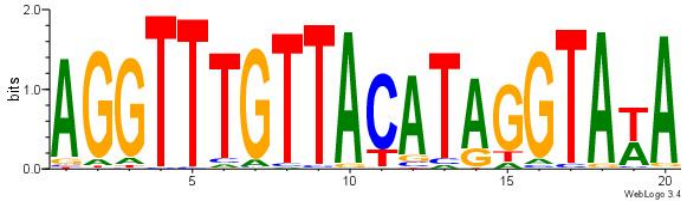

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

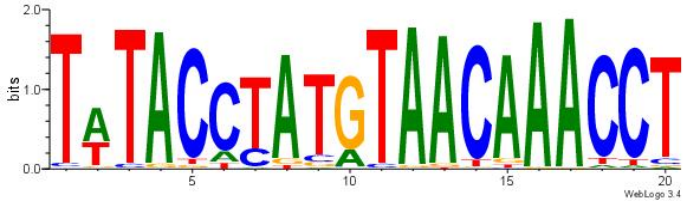

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 18
Similarity score: 0.139748

Alignment:
MGAAGGGACTTGCCTTGT
TCAATGGGCTCCCAAATG

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

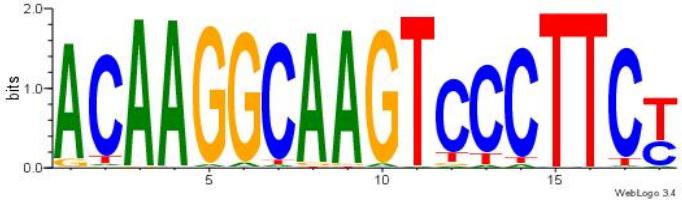

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

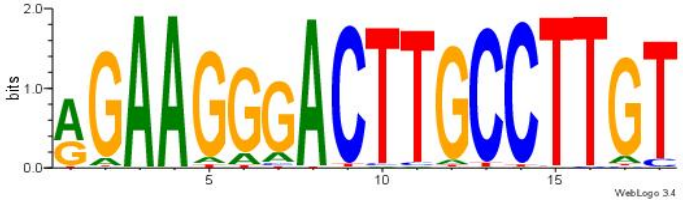

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.139801

Alignment:
CCCMKGGCACCCTCAGTCCT
-CATTTGGGAGCCCATTGA-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

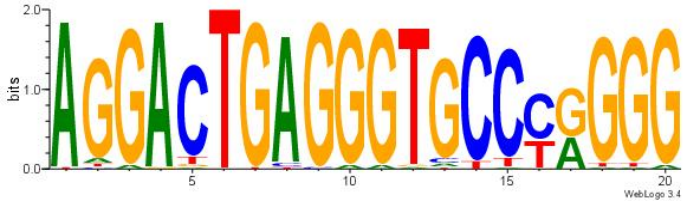

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

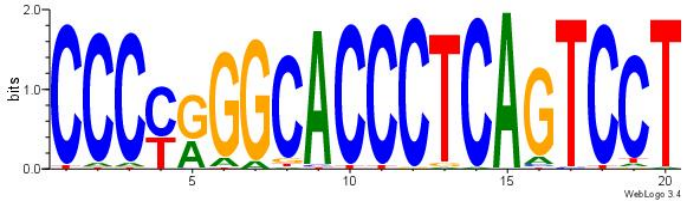

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.140084

Alignment:

```
AAGGAACAAACTCCRGACAC
TCAATGGGCTCCCAAATG--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

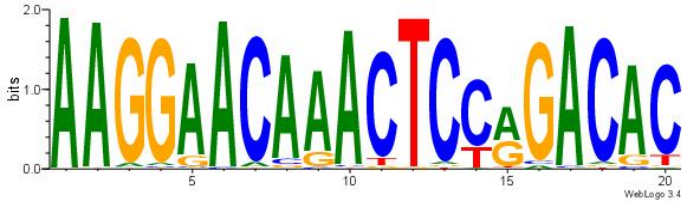

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

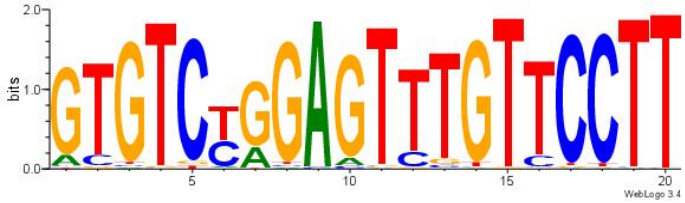

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.140435

Alignment:

```
GTCCCATCGACCACCCAAG
TCAATGGGCTCCCAAATG-
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

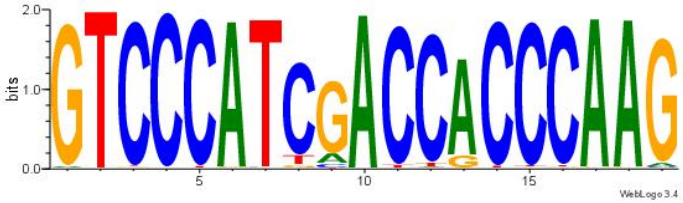

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

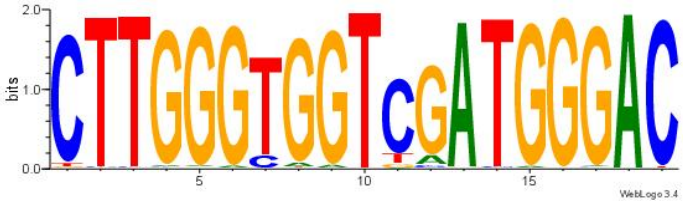

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.1407

Alignment:
ATGATCCAGCAATYCCACTH
--CATTTGGGAGCCCATTGA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

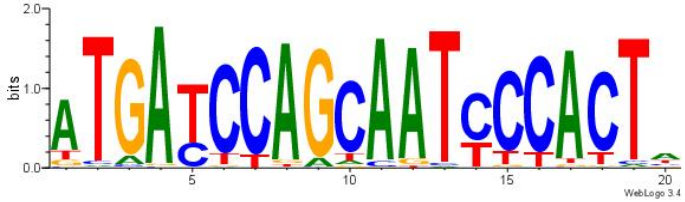

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

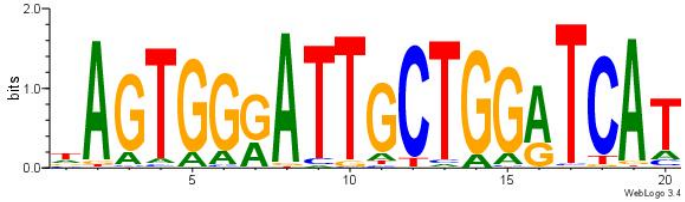

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.14087

Alignment:
CRTGAGCCACYGYRCCYGGC
CATTTGGGAGCCCATTGA--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

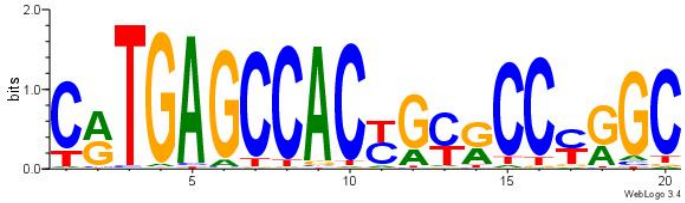

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

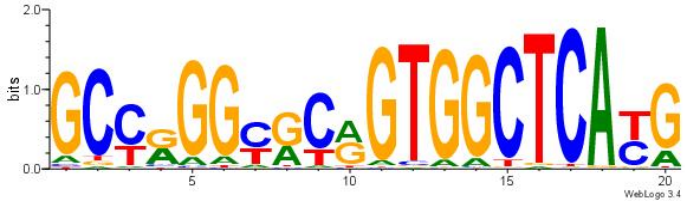

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.141369

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
TCAATGGGCTCCCAAATG--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

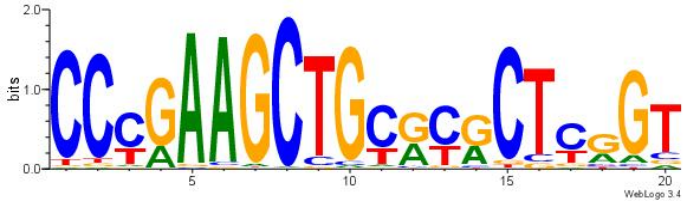

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

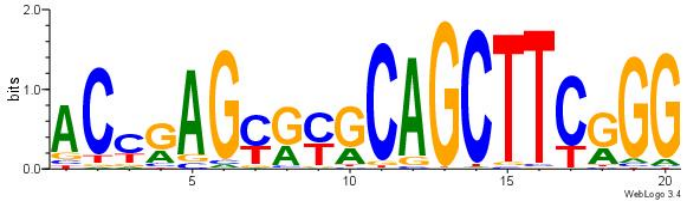

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.141402

Alignment:

```
AGAAATCGAGCRCAGCGCCG
--TCAATGGGCTCCCAAATG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

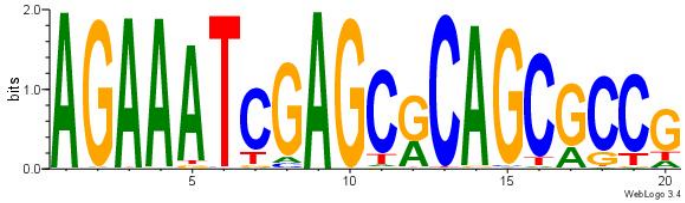

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

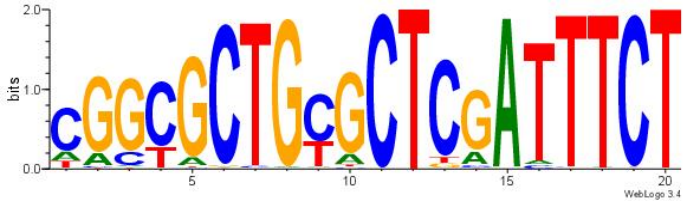

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 18
Similarity score: 0.141634

Alignment:
TGTGTGTGTGTKTGTGTGT
-CATTTGGGAGCCCATTGA

Original motif Consensus sequence: ACACACAYACACACACACA

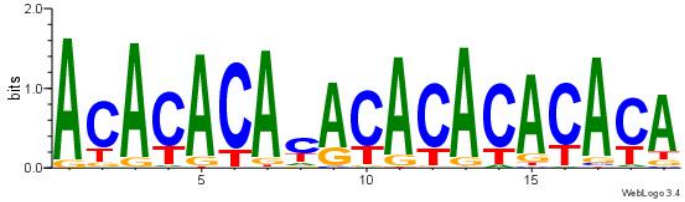

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

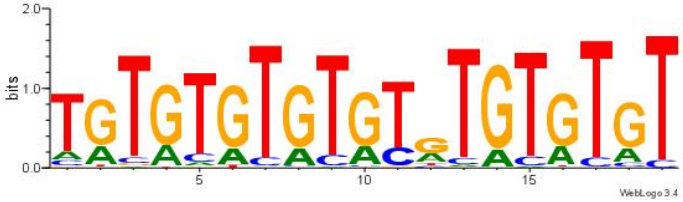

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.141734

Alignment:
ACAGGCTGTCCCAGGATTC
TCAATGGGCTCCCAAATG-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

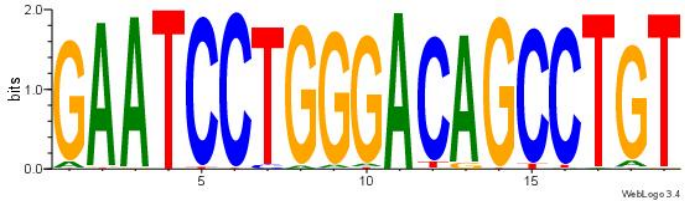

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

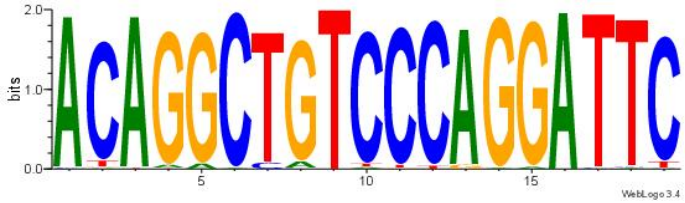

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.142089

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-CATTTGGGAGCCCATTGA-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

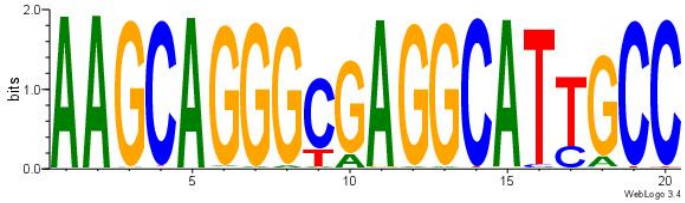

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

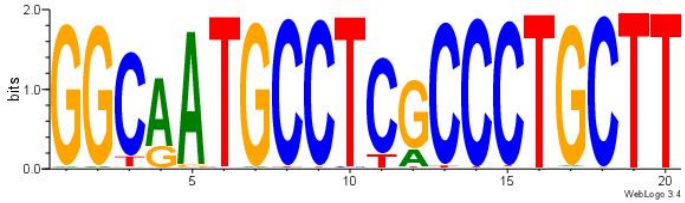

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.142986

Alignment:
GACCTGCAGCCCGCCATG
TCAATGGGCTCCCAAATG

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

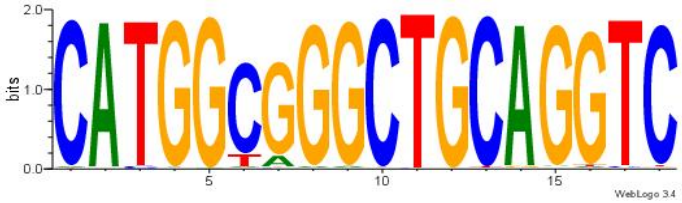

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

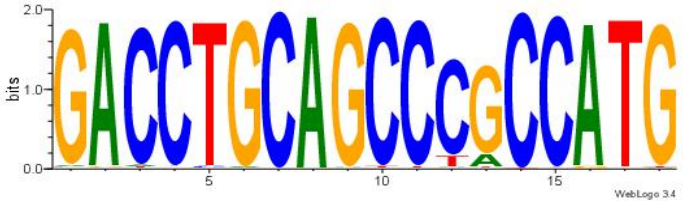

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 18
Similarity score: 0.143635

Alignment:
GAAAAGCGCAGTATTMGGG
-TCAATGGGCTCCCAAATG

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

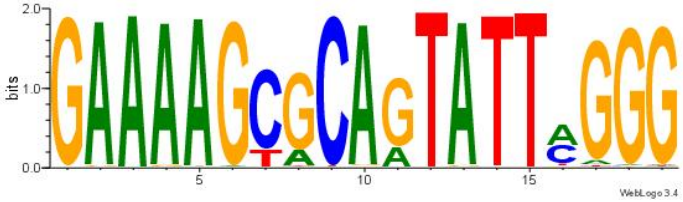

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

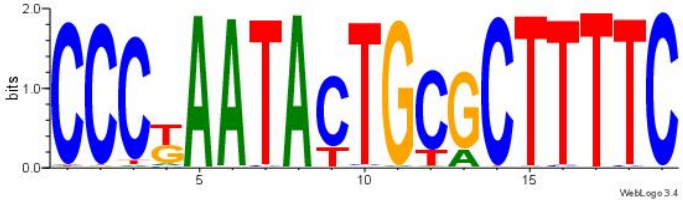

Dataset #: 1 Motif ID: 285 Motif name: Motif 285

Original motif Consensus sequence: CACTGCACTCCAGC

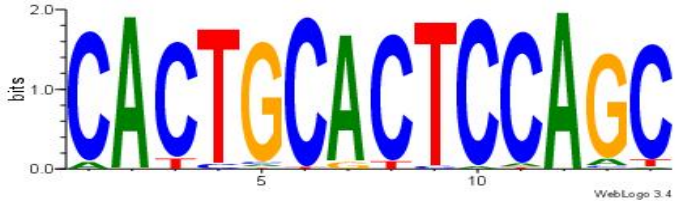

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

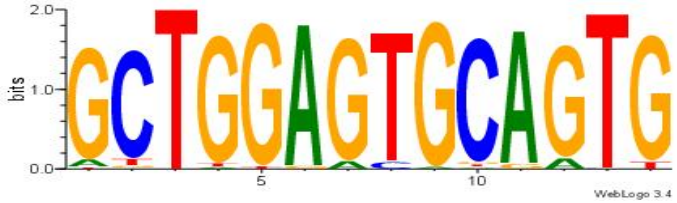

Best Matches for Motif ID 285 (Highest to Lowest)

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00211425

Alignment:

```
TCKMGCCACTGCACTCCAGC
CACTGCACTCCAGC------
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

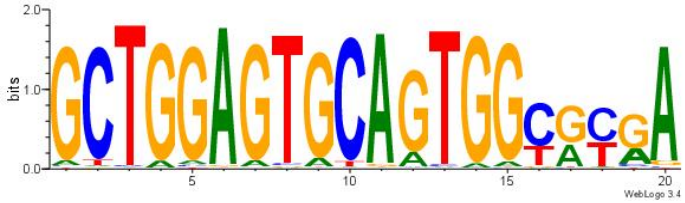

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

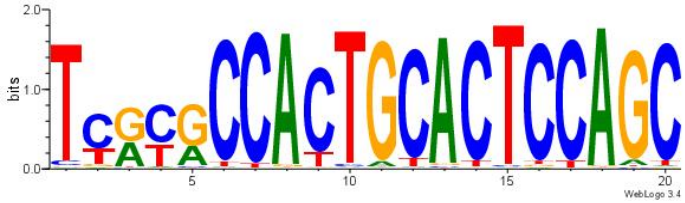

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0792554

Alignment:

GGGTGCAGGMGGGCTGAGT
----GCTGGAGTGCAGTG-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

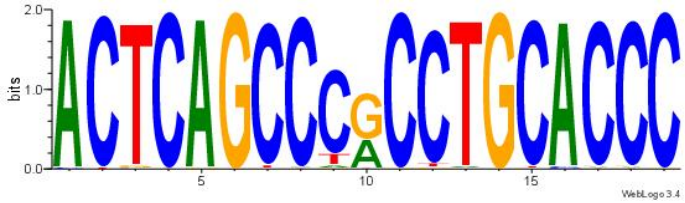

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

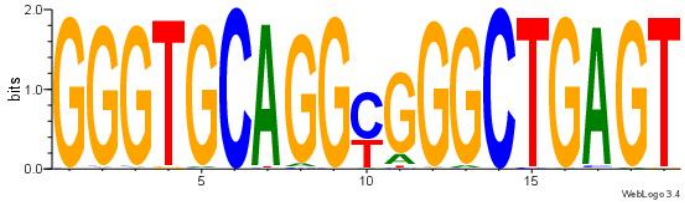

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0809977

Alignment:
TGCTGGAGGTCCACTCCAGA
------CACTGCACTCCAGC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

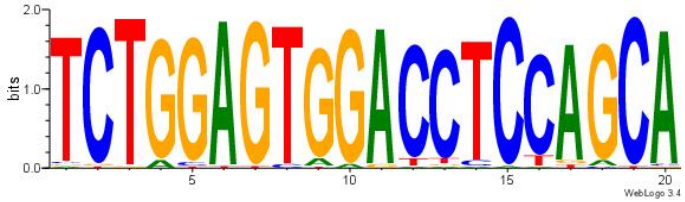

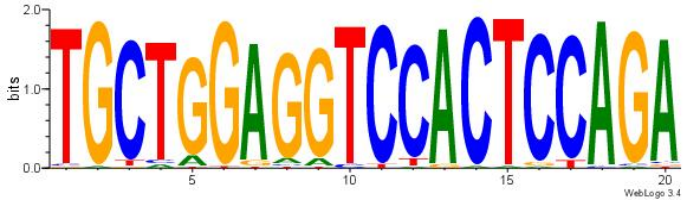

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0818524

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
GCTGGAGTGCAGTG------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

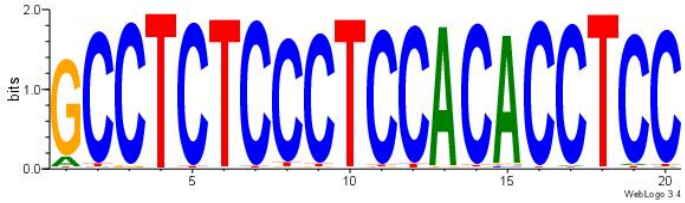

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

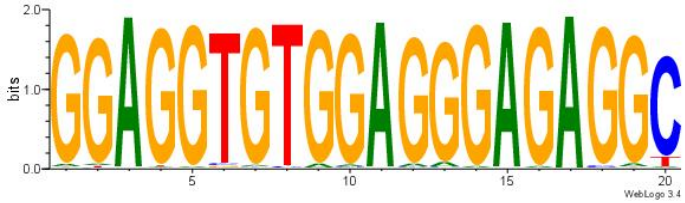

Dataset #: 1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0819031

Alignment:

```
TCAGGAGTGAAGCTGC
GCTGGAGTGCAGTG--
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

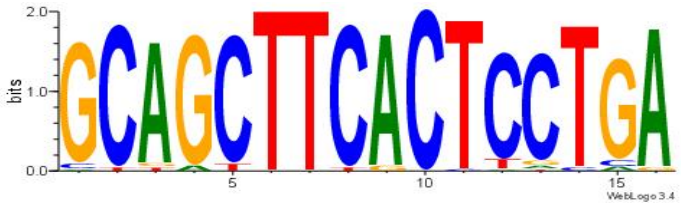

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

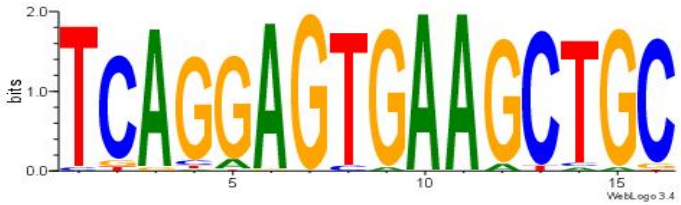

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.0828415

Alignment:
GCGGCCGGGCAGAG
GCTGGAGTGCAGTG

Original motif Consensus sequence: CTCTGCCCGGCCGC

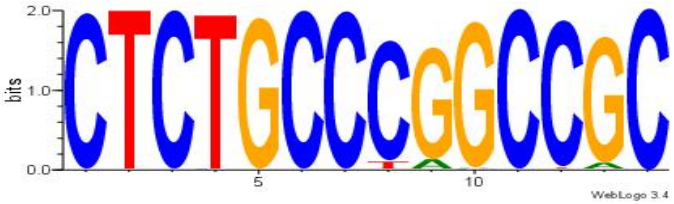

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

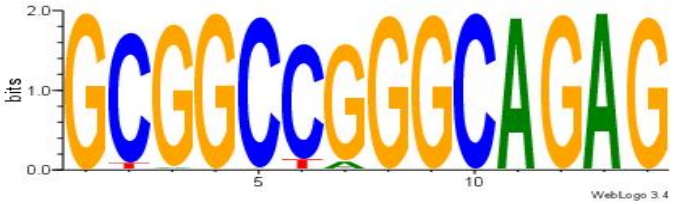

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0834502

Alignment:
CCGCTGCACTGTGGGAGCCC
-CACTGCACTCCAGC-----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

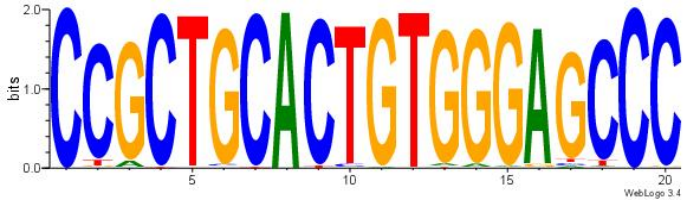

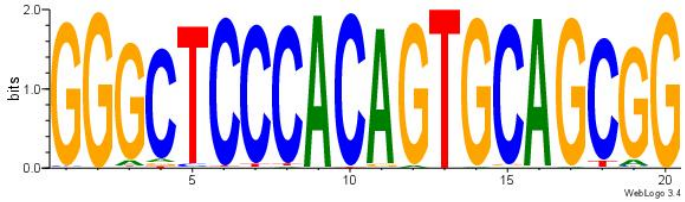

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0874122

Alignment:

```
AGGCTGTTTTACAGTTAAC
--GCTGGAGTGCAGTG---
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

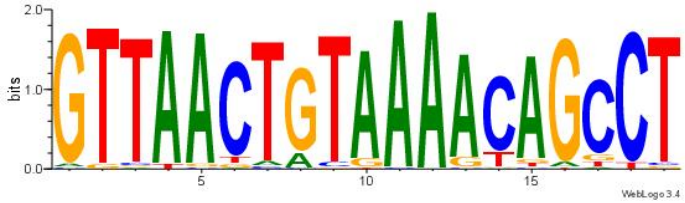

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

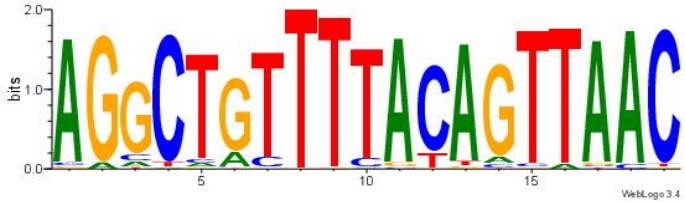

Dataset #: 1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0880503

Alignment:

```
CGGCGCTGMGCTCGATTTCT
---CACTGCACTCCAGC---
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

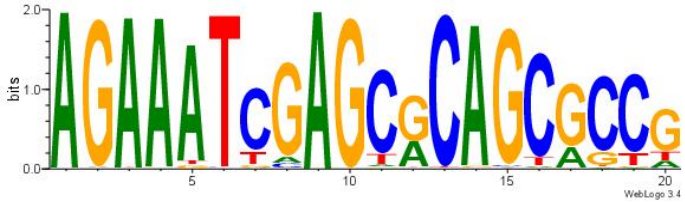

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

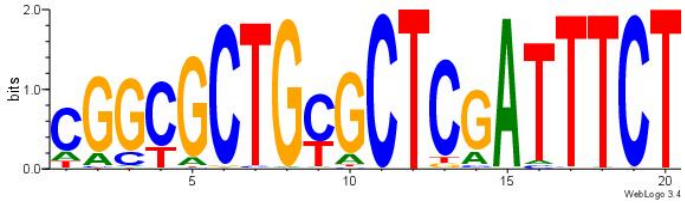

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.0880544

Alignment:
ACATCMTCTGAAATCTAGG
CACTGCACTCCAGC-----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

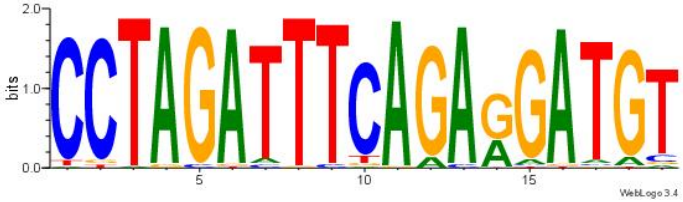

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

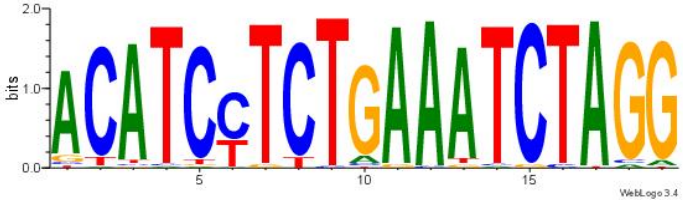

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.0961042

Alignment:
AWTKKTGGTTKCCAGKGGCT
---GCTGGAGTGCAGTG---

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

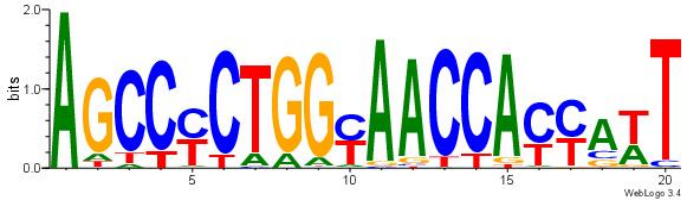

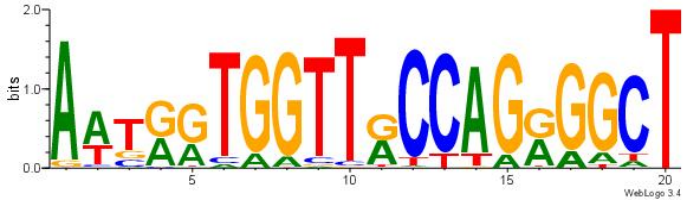

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0975753

Alignment:

```
GACTGGCAGGCAGCTCCACC
-----GCTGGAGTGCAGTG-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

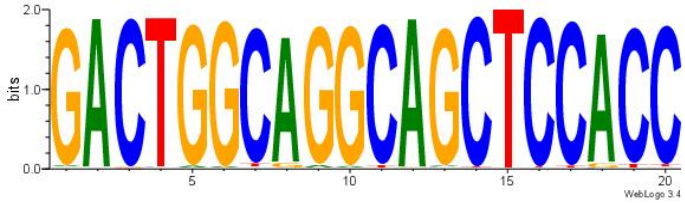

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

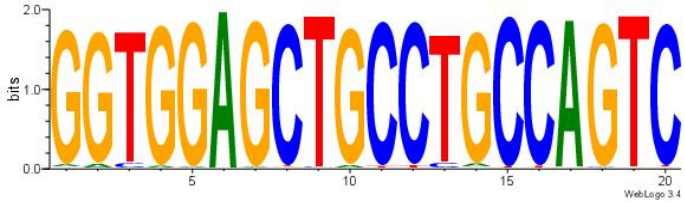

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0978764

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
CACTGCACTCCAGC------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

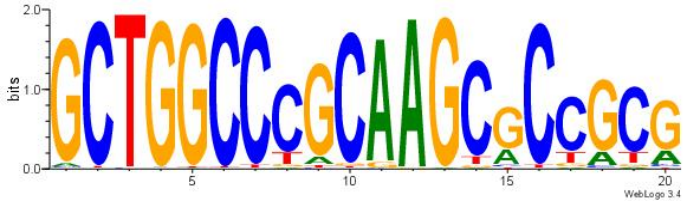

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

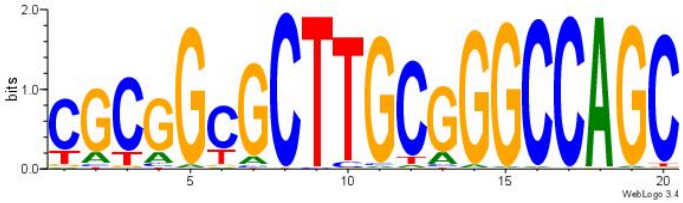

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.0982283

Alignment:
AACCCTATTGTGAACTGYG
--GCTGGAGTGCAGTG---

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

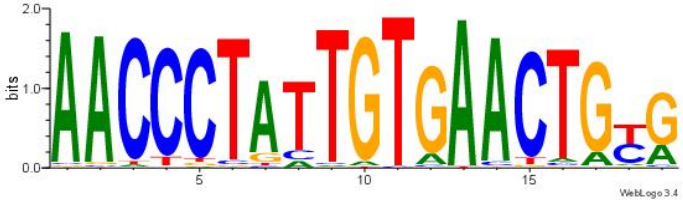

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

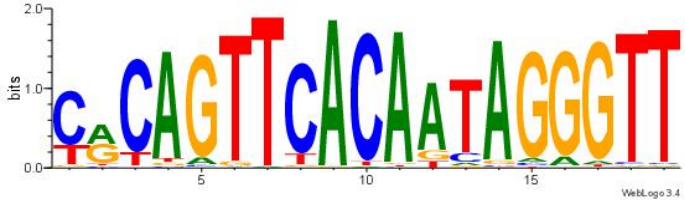

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0983978

Alignment:
CACCAGACTCAGGAGCCCAG
------CACTGCACTCCAGC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

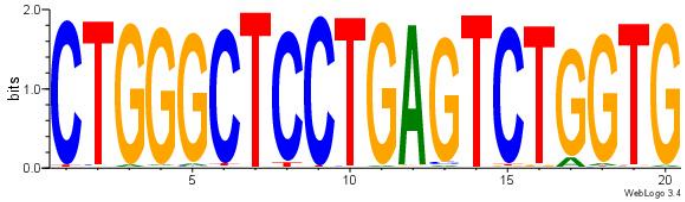

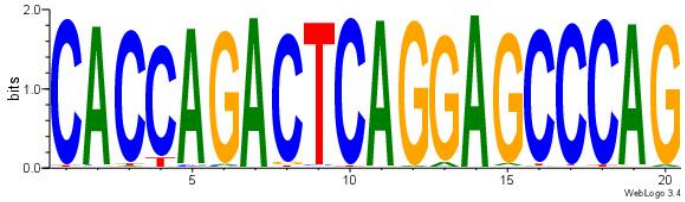

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0985856

Alignment:

```
GGCACTGCTGGGGGACCCAG
------GCTGGAGTGCAGTG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

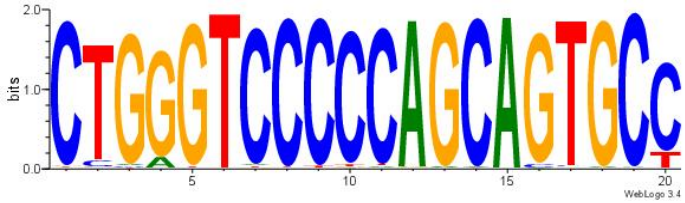

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

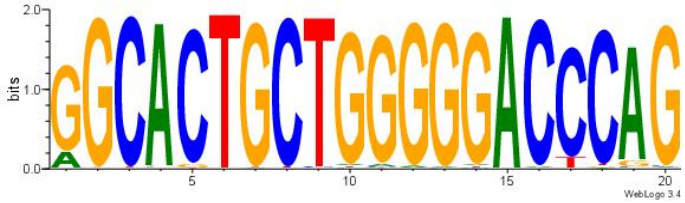

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0996629

Alignment:

```
CATTCTGGGGTCTGGAGGAY
---GCTGGAGTGCAGTG---
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

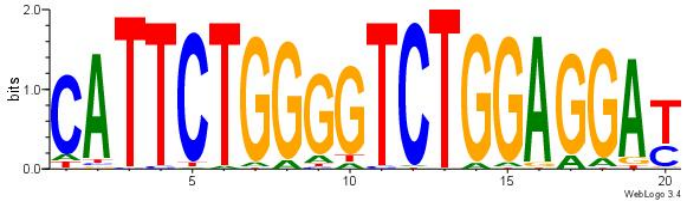

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

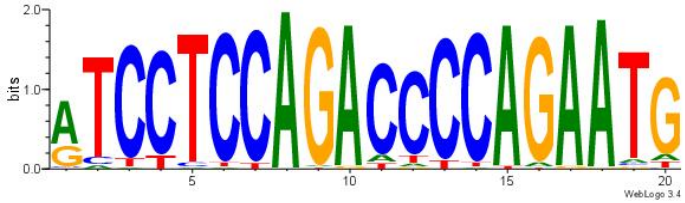

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.100261

Alignment:
GACCTGCAGCCCGCCATG
---CACTGCACTCCAGC-

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

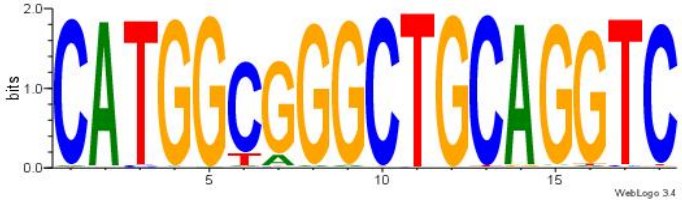

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

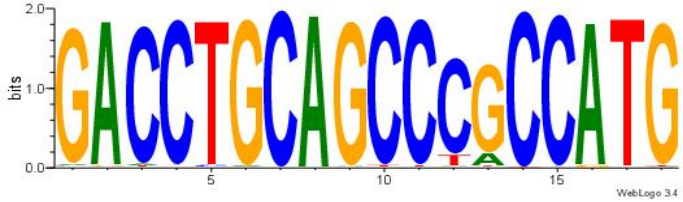

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.101607

Alignment:
CCTTTGACTCCATGTC
CACTGCACTCCAGC--

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

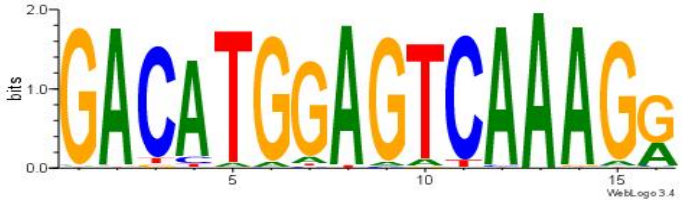

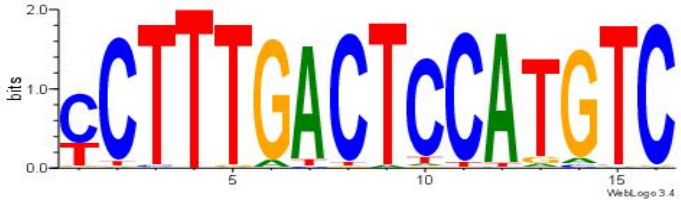

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.101941

Alignment:

```
GCTCCACCCAGTTCGAGCTT
----CACTGCACTCCAGC--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

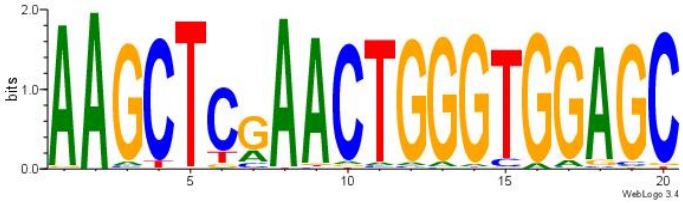

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

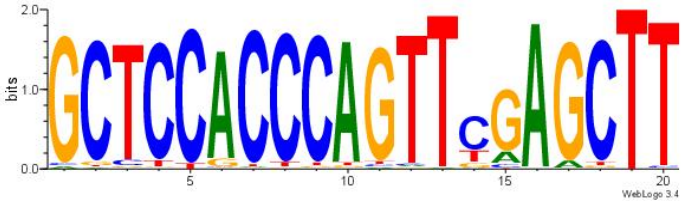

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.1022

Alignment:

```
ATGGCTGAATAKTATTCCAT
---GCTGGAGTGCAGTG---
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

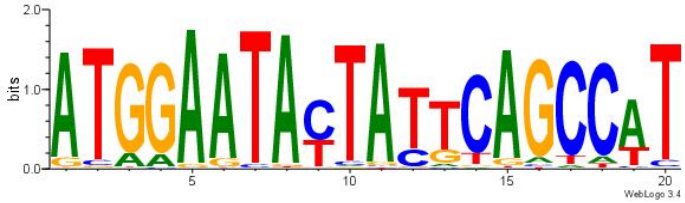

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

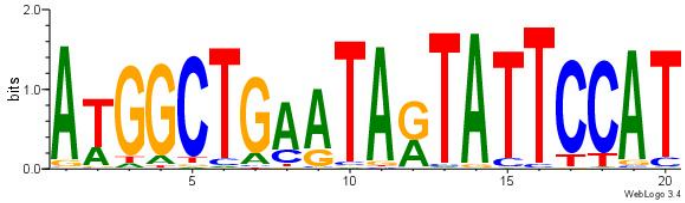

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.102959

Alignment:
AACTGAGGCTCAGAGA
-GCTGGAGTGCAGTG-

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

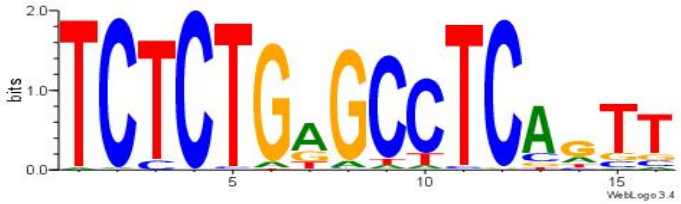

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

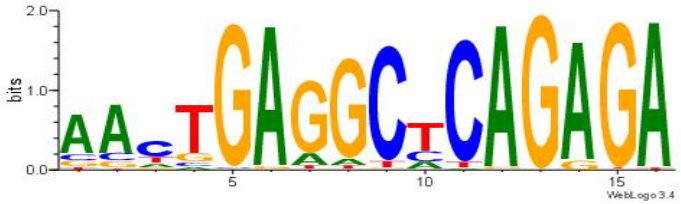

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.103562

Alignment:
HAGTGGKATTGCTGGATCAT
--GCTGGAGTGCAGTG----

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

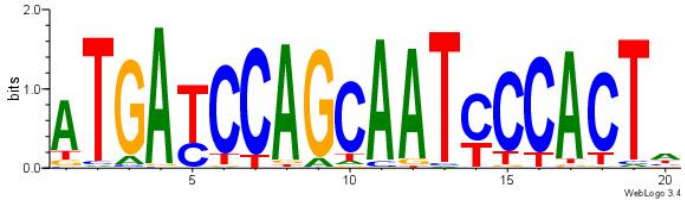

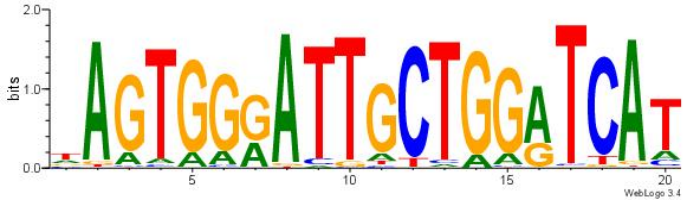

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.103646

Alignment:

```
CATTTGGGAGCCCATTGA
-GCTGGAGTGCAGTG---
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

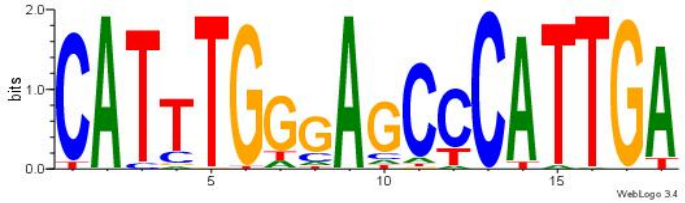

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

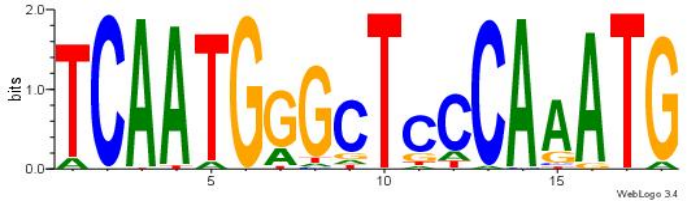

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.105242

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
---GCTGGAGTGCAGTG---
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

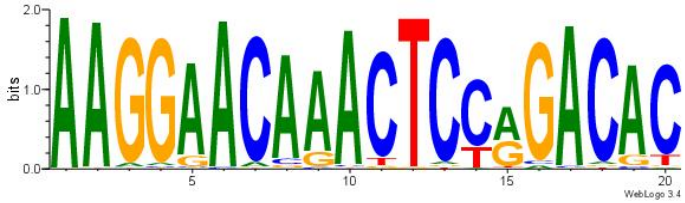

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

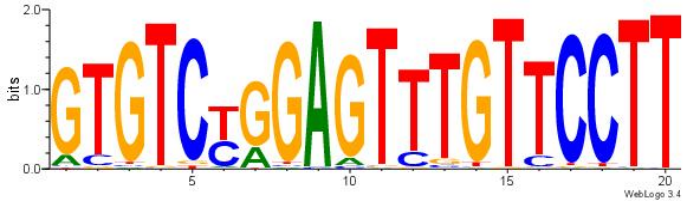

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.106116

Alignment:
ARCTCCTGKSCTCAAGKGAT
---CACTGCACTCCAGC---

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

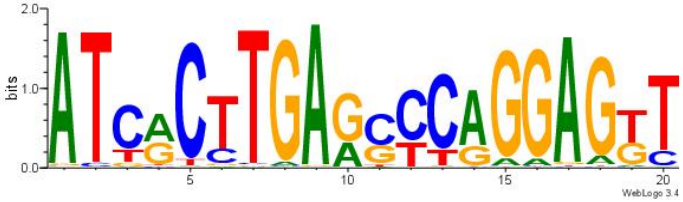

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

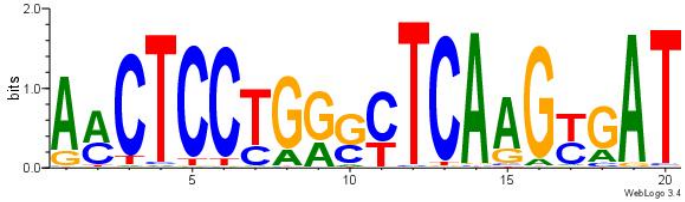

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.106383

Alignment:
GCTTAGCACCYGGGCCAGC
-CACTGCACTCCAGC----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

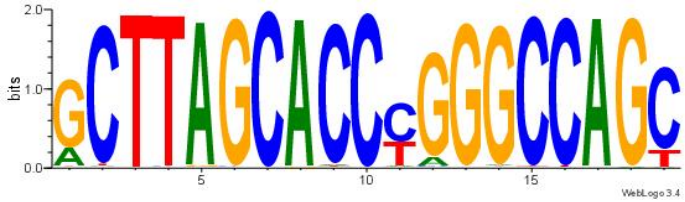

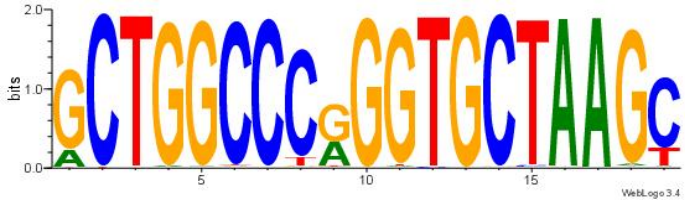

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.107125

Alignment:

```
CCACCACAGCTCAAGGAGGC
-CACTGCACTCCAGC-----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

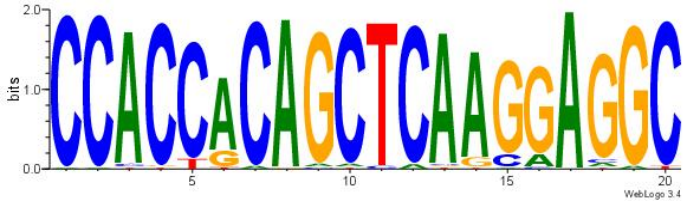

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

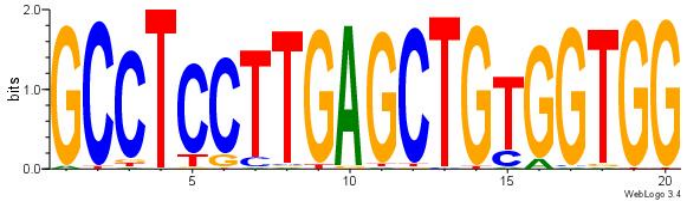

Dataset #:	1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.108086

Alignment:

```
CGGCTTCATTCTTGAAGTC
----CACTGCACTCCAGC-
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

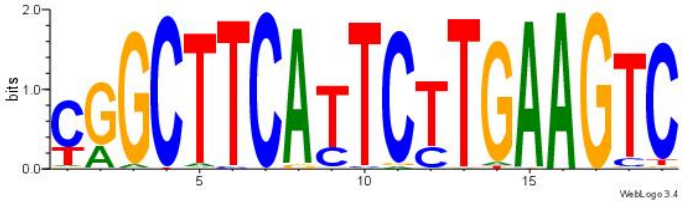

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.10838

Alignment:
ATGTAACCAAAYACCACCTG
----CACTGCACTCCAGC--

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

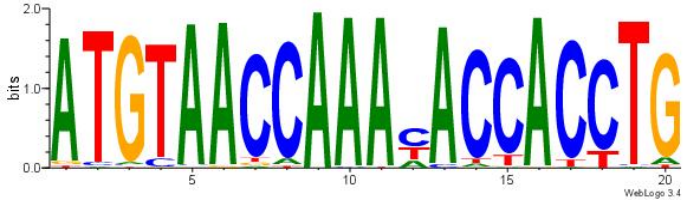

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

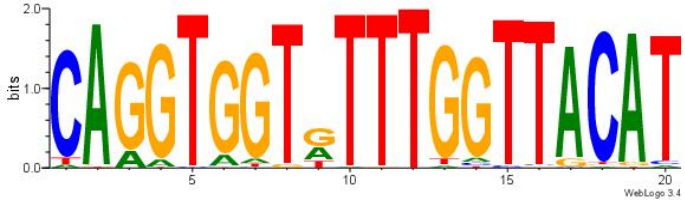

Dataset #: 1
Motif ID: 206
Motif name: Motif 206
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.10843

Alignment:
GGRCKCACWGGAGC
CACTGCACTCCAGC

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

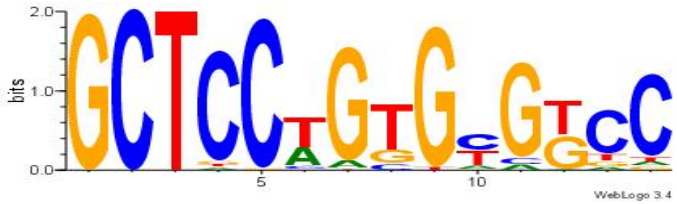

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.109804

Alignment:

```
GCTGCARTCTCGGCACTTT
GCTGGAGTGCAGTG-----
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

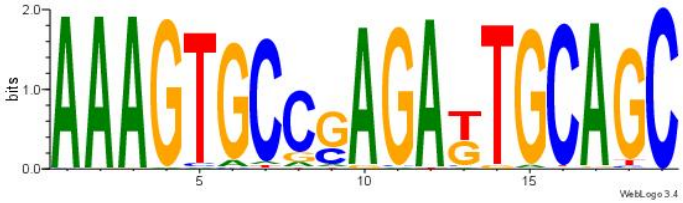

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

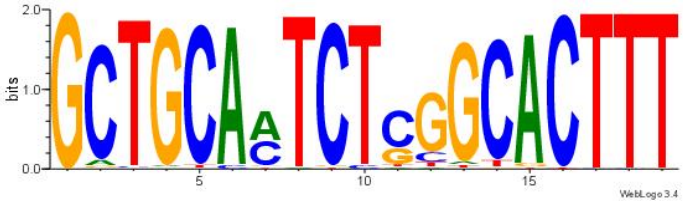

Dataset #:	1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.110346

Alignment:

```
TGGATGGATGGATGGAT
--GCTGGAGTGCAGTG-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

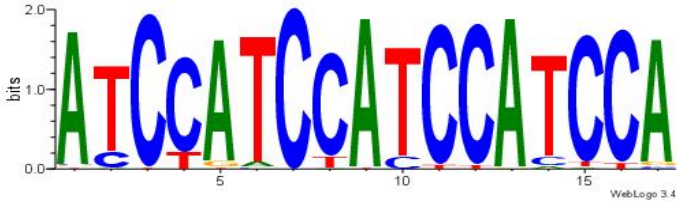

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.11037

Alignment:
CTCCAGKTMCATCCATGTTG
---CACTGCACTCCAGC---

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

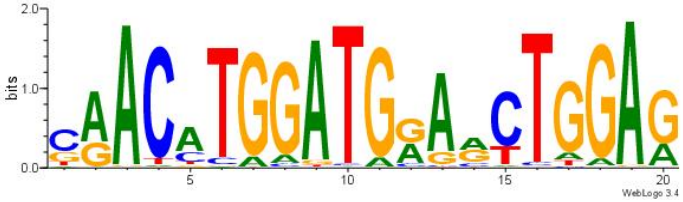

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

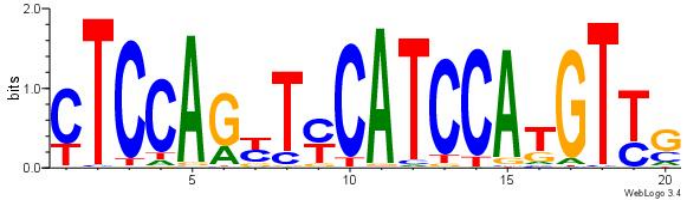

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.110501

Alignment:
ACTCCCTAGTGAGATGAACC
--GCTGGAGTGCAGTG----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

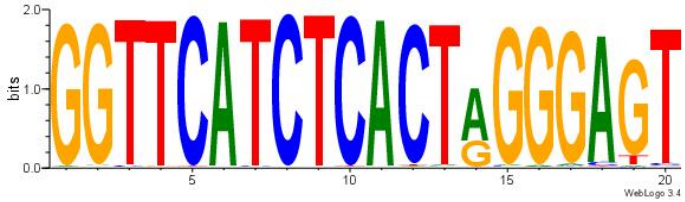

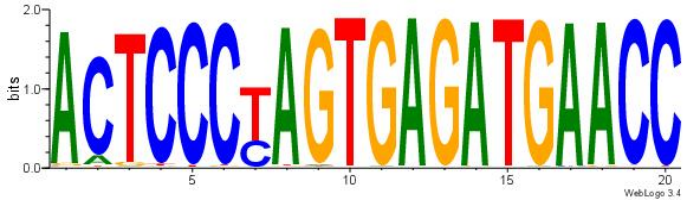

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.110869

Alignment:

```
AACAACASACACTGGGGCCT
----CACTGCACTCCAGC--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

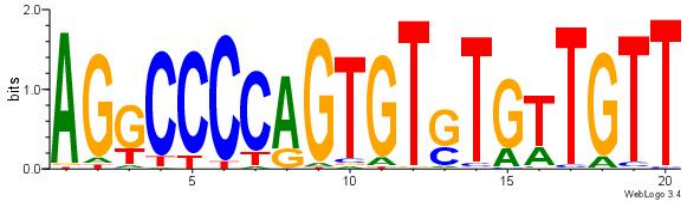

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

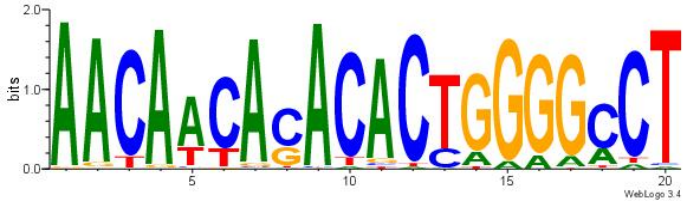

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.111162

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
----GCTGGAGTGCAGTG--
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

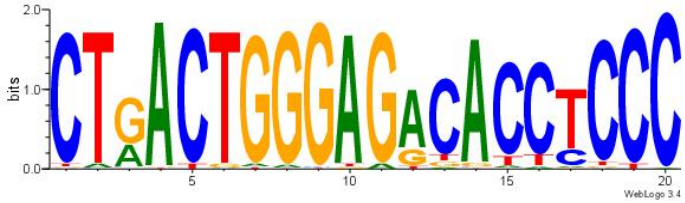

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

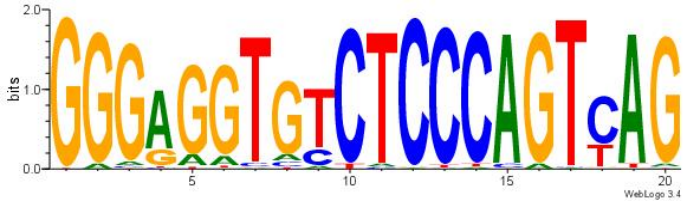

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.111598

Alignment:
AGGAGGAAGTCAATTTC
-GCTGGAGTGCAGTG--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

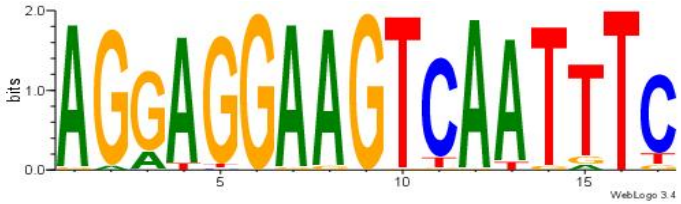

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

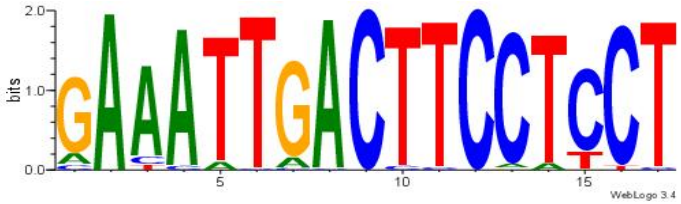

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.111713

Alignment:
AGGAGCGCCTCTKCCCGGC
-----CACTGCACTCCAGC

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

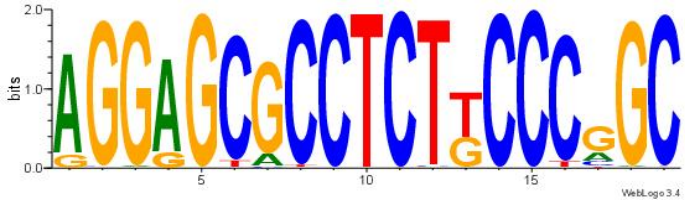

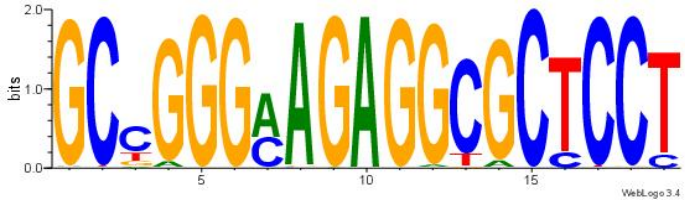

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.111871

Alignment:

```
GGATTTMKGACTTGCATGGG
-----GCTGGAGTGCAGTG-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

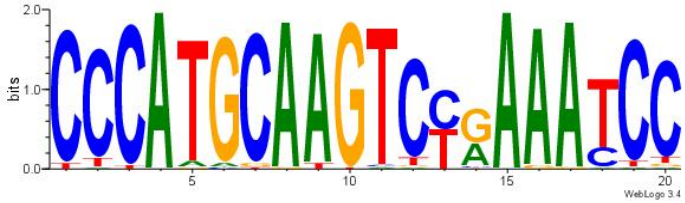

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

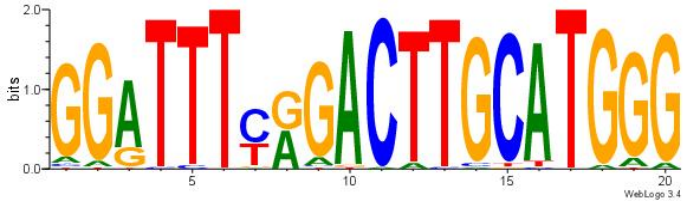

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.112016

Alignment:

```
AAAAGTCCACAGTCCAAAGT
----CACTGCACTCCAGC--
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

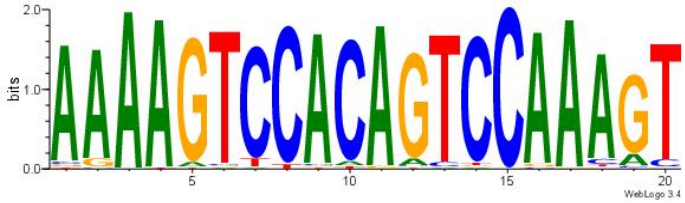

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

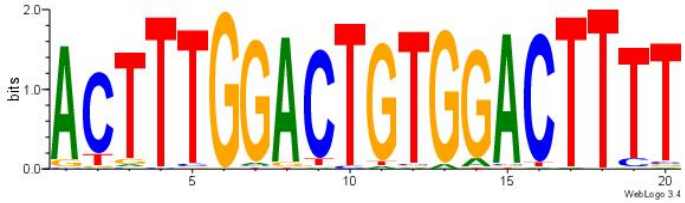

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.112382

Alignment:
AGAGCTCTGGCTGGCATCT
-----GCTGGAGTGCAGTG

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

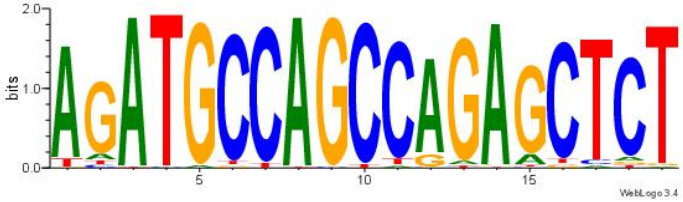

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

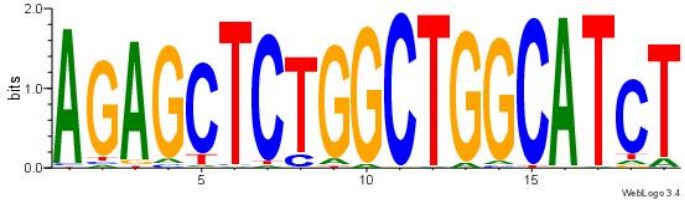

Dataset #: 1
Motif ID: 214
Motif name: Motif 214
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.114058

Alignment:
CTCAGGAATGGAAAACC
--GCTGGAGTGCAGTG-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

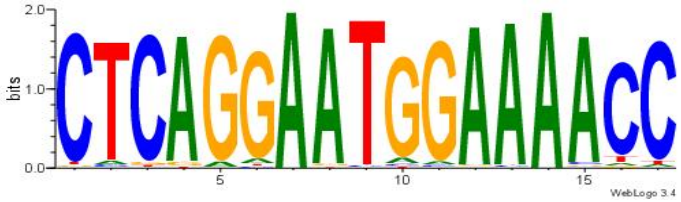

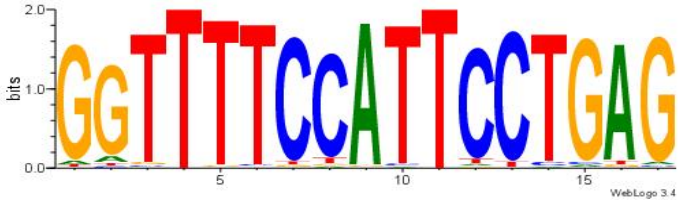

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.114407

Alignment:

```
AGGACTGAGGGTGCCYRGGG
------GCTGGAGTGCAGTG
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

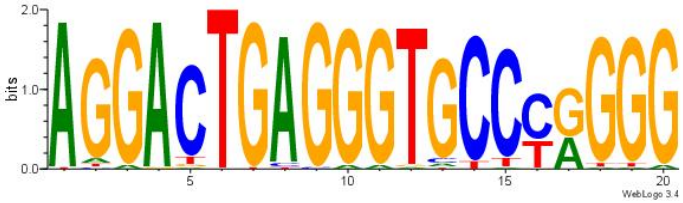

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

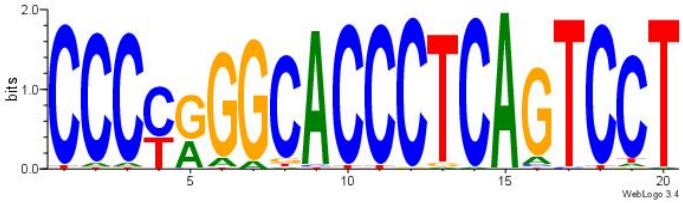

Dataset #:	1

Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.11443

Alignment:

```
CGCCCCGTCTGGGAAGTG
----GCTGGAGTGCAGTG
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

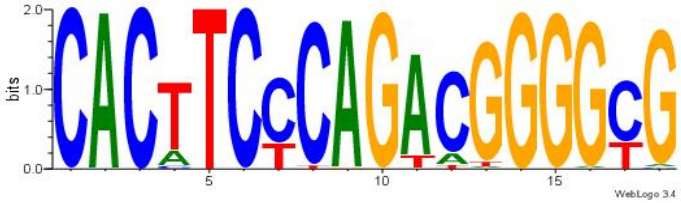

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

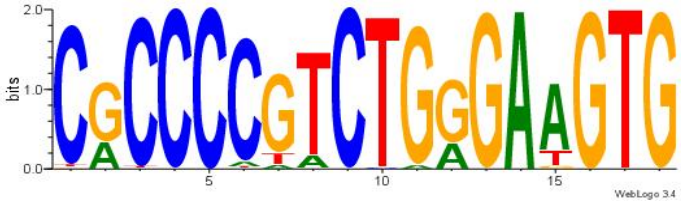

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.114721

Alignment:
HGCTCCTGTGSKCCC
GCTGGAGTGCAGTG-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

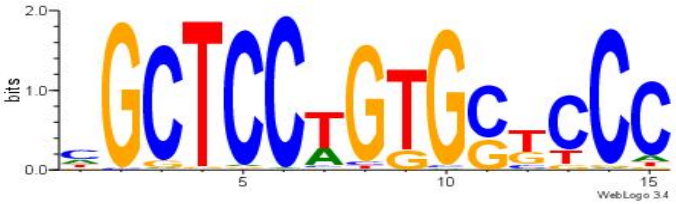

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

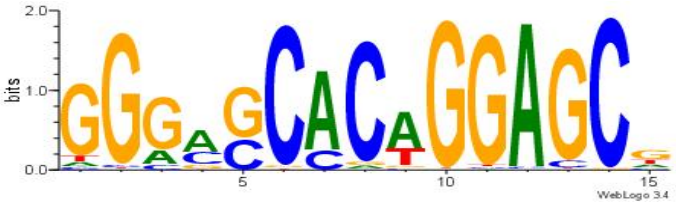

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.114896

Alignment:
ACCTGGAAAATCGGGTCACT
-----GCTGGAGTGCAGTG-

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

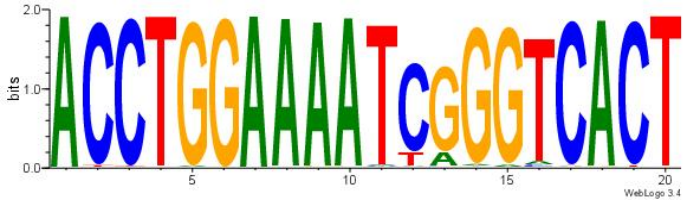

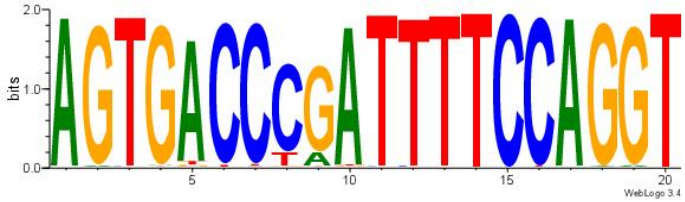

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.115034

Alignment:

```
CCCACGCCCACCCGGAACT
----CACTGCACTCCAGC-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

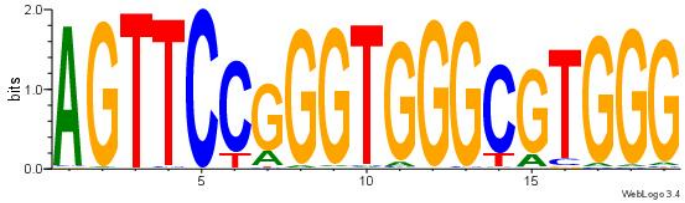

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

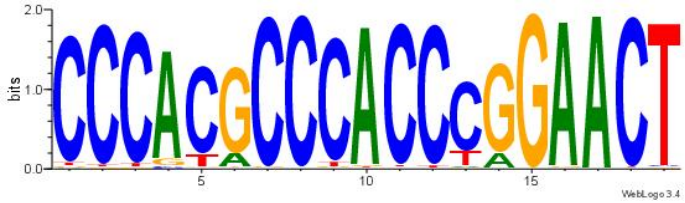

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.11557

Alignment:

```
AAAGCTGGAGCTATTATCTA
---GCTGGAGTGCAGTG---
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

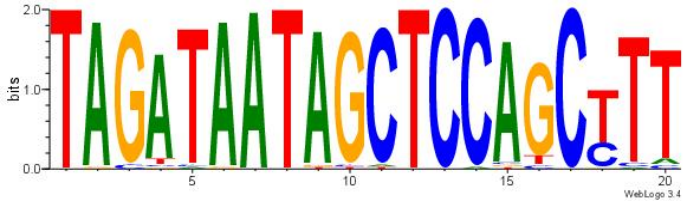

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

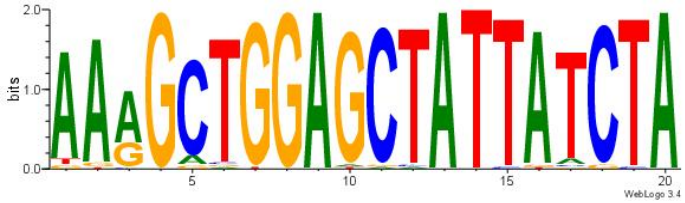

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.115614

Alignment:
AAGTTCTKGGKTACATGTGC
----GCTGGAGTGCAGTG--

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

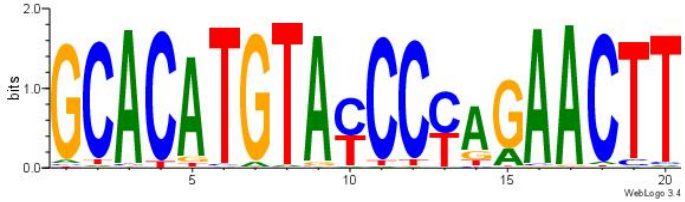

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

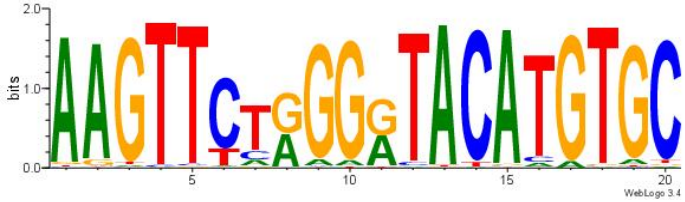

Dataset #: 1 Motif ID: 286 Motif name: Motif 286

Original motif Consensus sequence: CAGGCGGCTGGGAG

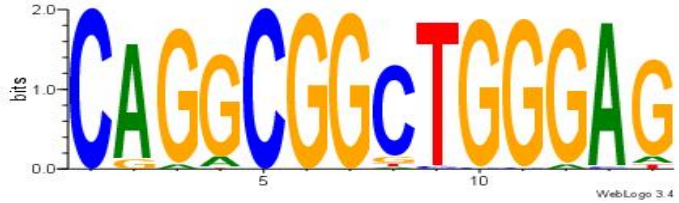

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

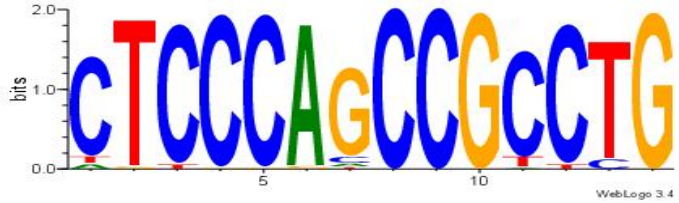

Best Matches for Motif ID 286 (Highest to Lowest)

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0824568

Alignment:
AGCTCMKCCTCCTGTCAGAT
CTCCCAGCCGCCTG------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

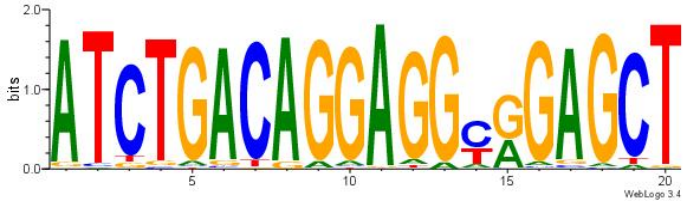

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

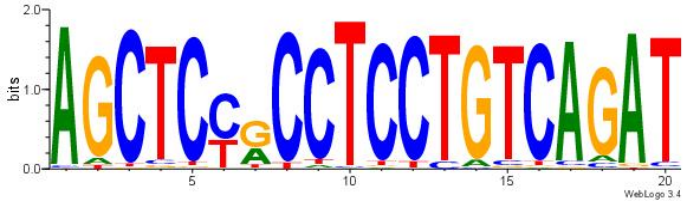

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0825275

Alignment:
CGCCCATCGTCTGGGATGT
--CAGGCGGCTGGGAG---

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

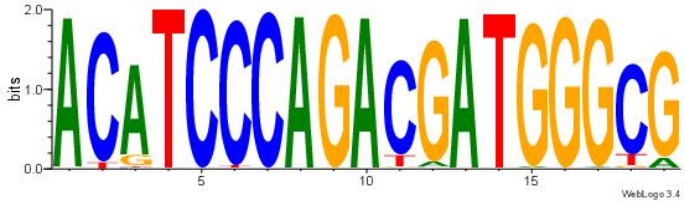

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

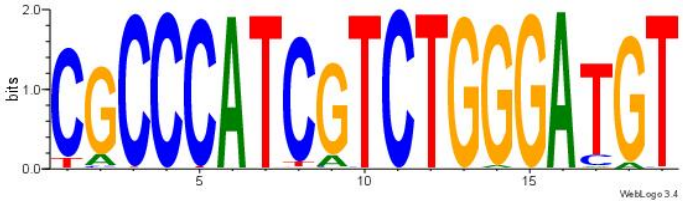

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0841785

Alignment:

```
CATTCTGGGGTCTGGAGGAY
----CAGGCGGCTGGGAG--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

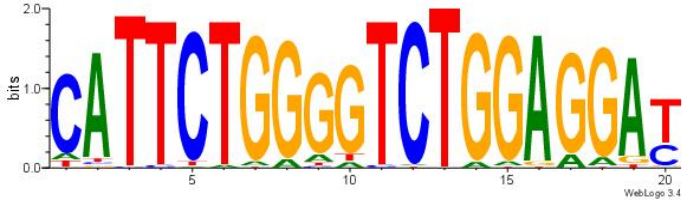

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

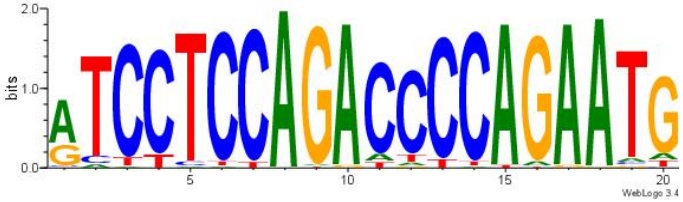

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0849087

Alignment:

```
CGCCCGGCCAGCCGC
-CTCCCAGCCGCCTG
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

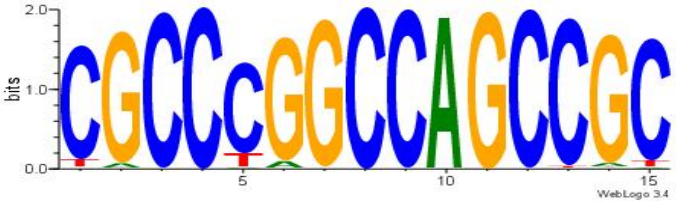

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

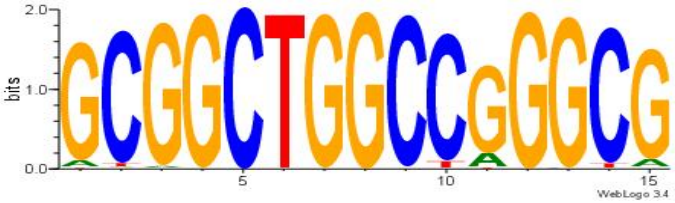

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0884768

Alignment:
GATCACGAGGTCAGGAG
---CAGGCGGCTGGGAG

Original motif Consensus sequence: GATCACGAGGTCAGGAG

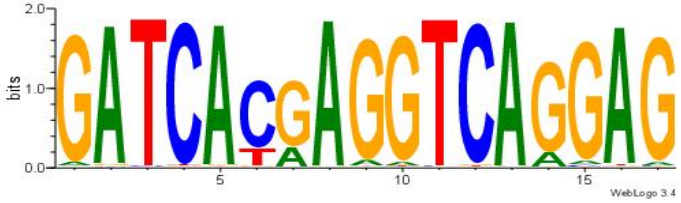

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

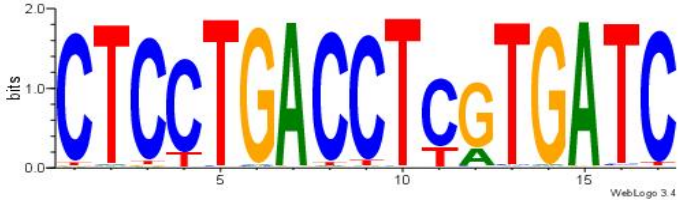

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0952227

Alignment:
TMGGGAGGCTGAGGCAGGAG
-----CAGGCGGCTGGGAG-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

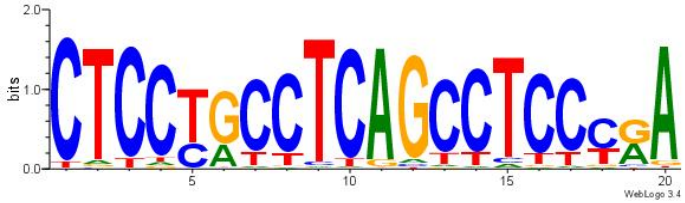

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

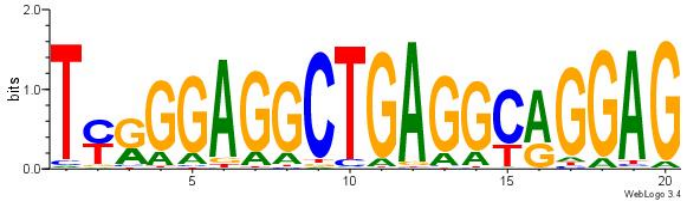

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0975443

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-----CAGGCGGCTGGGAG
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

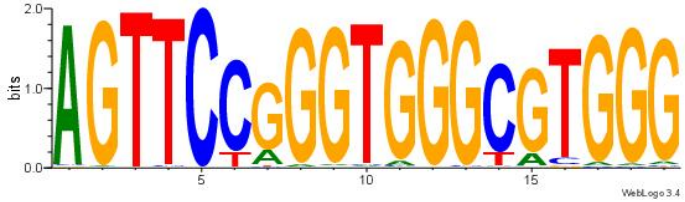

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

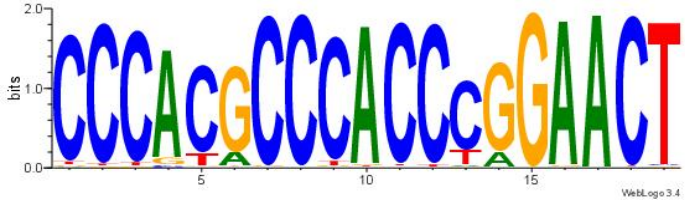

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.098379

Alignment:

```
ACCCYGTCTGGGAGGTG
CAGGCGGCTGGGAG---
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

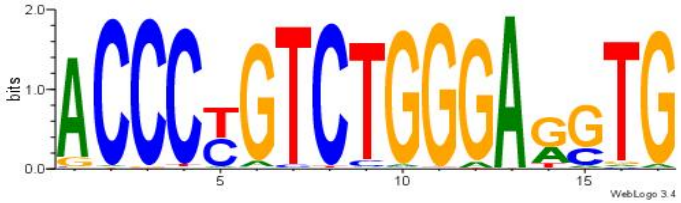

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

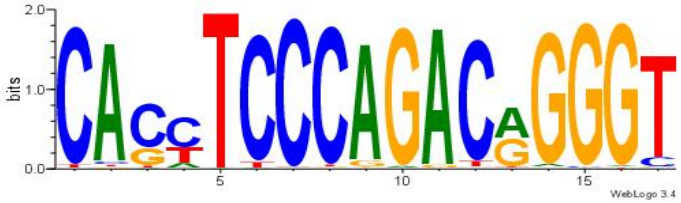

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 14
Similarity score: 0.0992318

Alignment:
ATCRCTTGAGSYCAGGAGKT
----CAGGCGGCTGGGAG--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

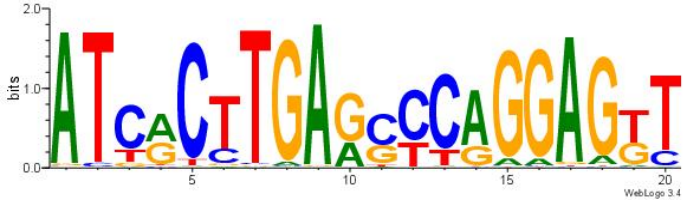

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

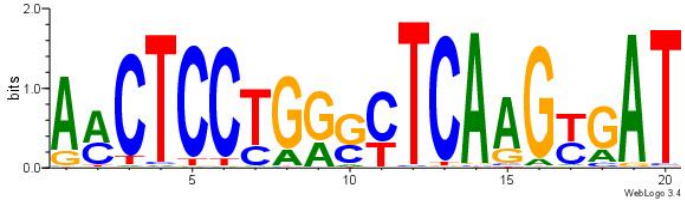

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0996787

Alignment:
KCCGGGCCTTAGCTGCCTTC
-----CTCCCAGCCGCCTG-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

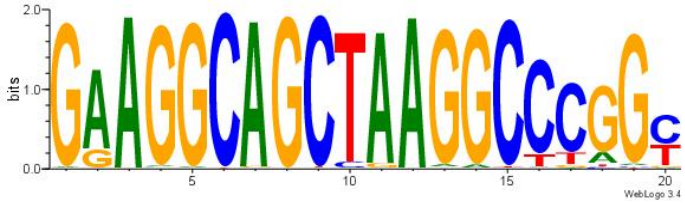

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

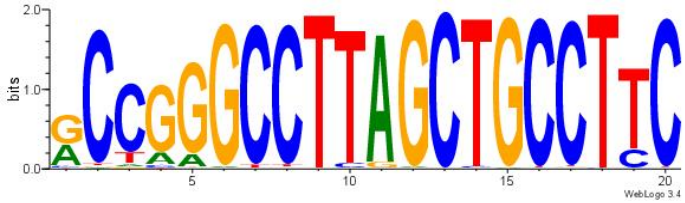

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0997397

Alignment:

```
GGGCTCCCACAGTGCAGCGG
---CTCCCAGCCGCCTG---
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

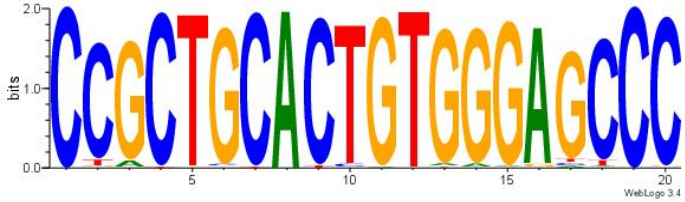

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

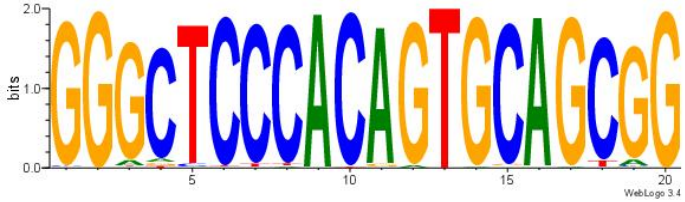

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0997537

Alignment:

```
CCCCGGGCAGTGAGGG
--CAGGCGGCTGGGAG
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

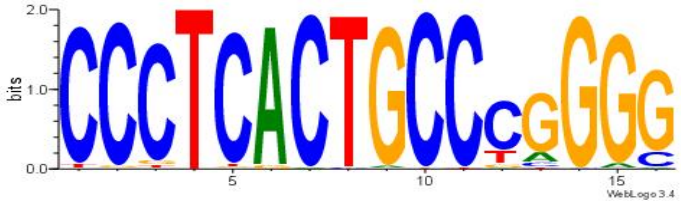

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

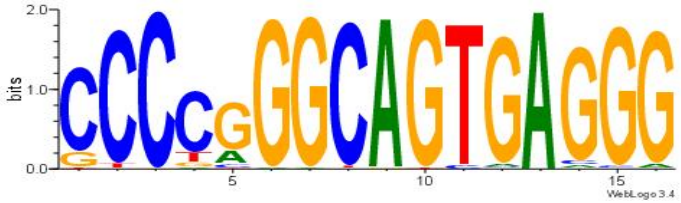

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.100354

Alignment:
CTTGGGTGGTCGATGGGAC
CAGGCGGCTGGGAG-----

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

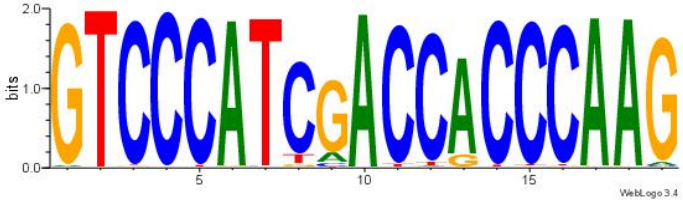

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

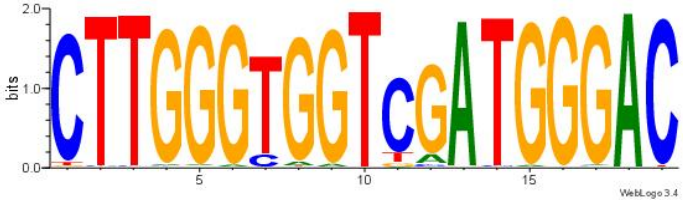

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.100371

Alignment:
CCGCGGGGCAGGGCTCG
--CAGGCGGCTGGGAG-

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

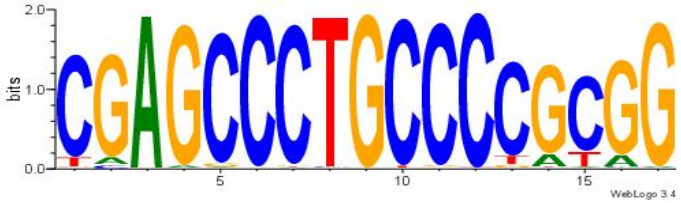

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

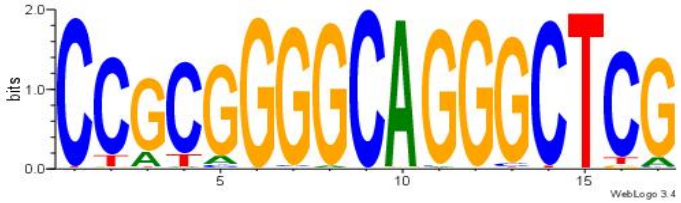

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.100414

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CTCCCAGCCGCCTG------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

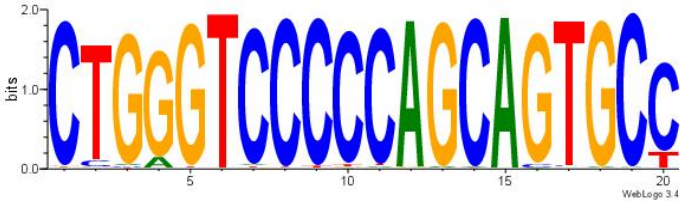

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

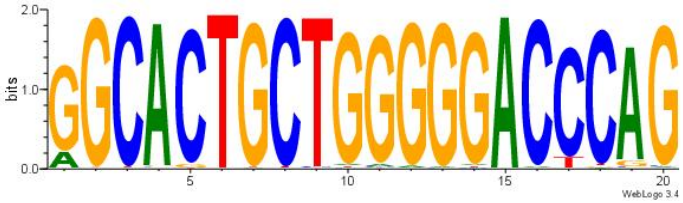

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.100637

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-CTCCCAGCCGCCTG-----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

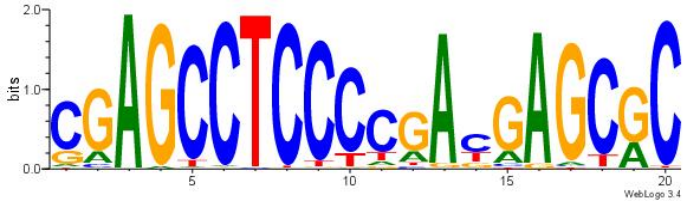

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

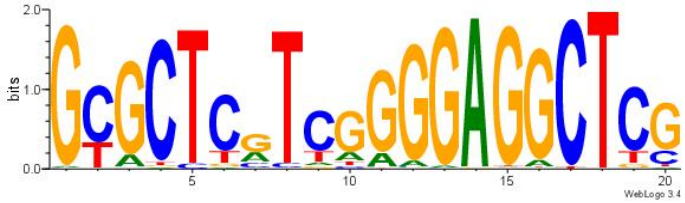

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.101325

Alignment:
GACTGGCAGGCAGCTCCACC
------CAGGCGGCTGGGAG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

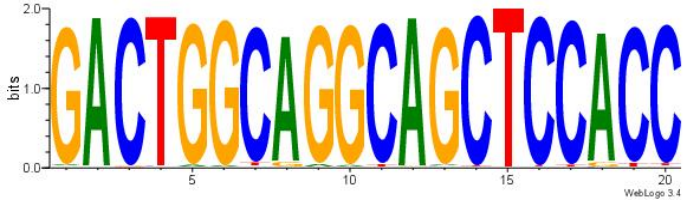

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

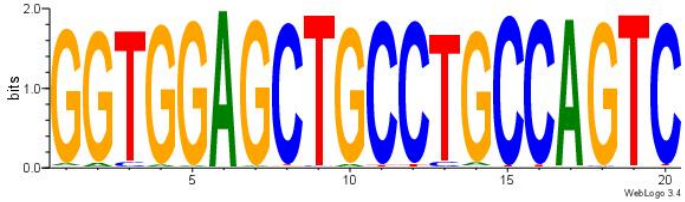

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.102649

Alignment:
CAGACTGCCTCCTCAA
--CTCCCAGCCGCCTG

Original motif Consensus sequence: CAGACTGCCTCCTCAA

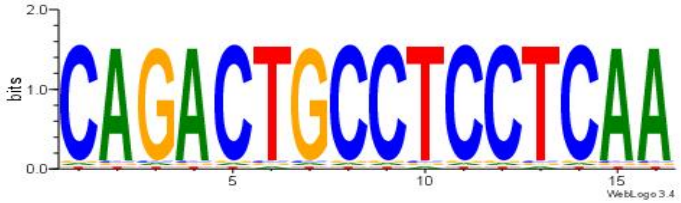

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

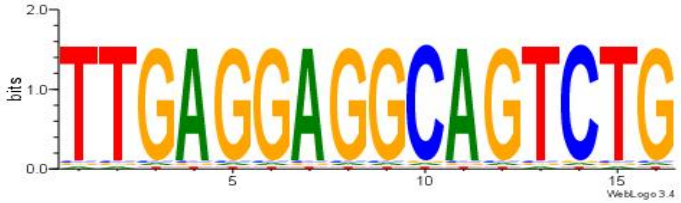

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.102693

Alignment:

```
CGTCGCTCACGCTGGGAGCT
--CAGGCGGCTGGGAG----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

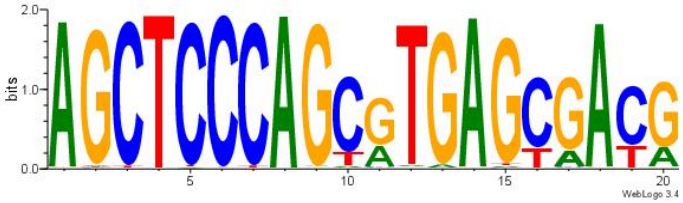

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

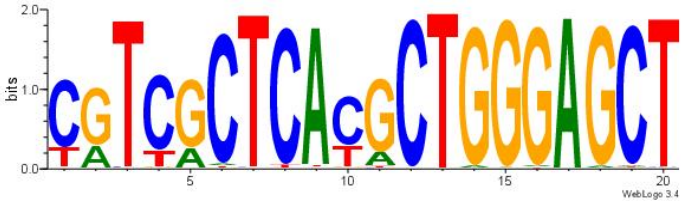

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.102982

Alignment:

```
AAATTACCCAGTCTCAGGTA
--CTCCCAGCCGCCTG----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

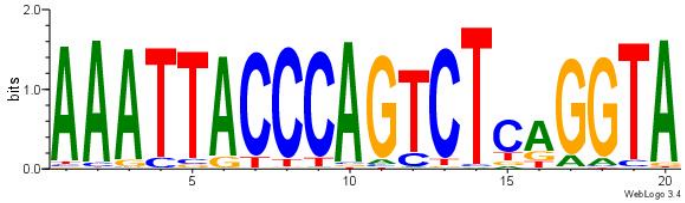

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

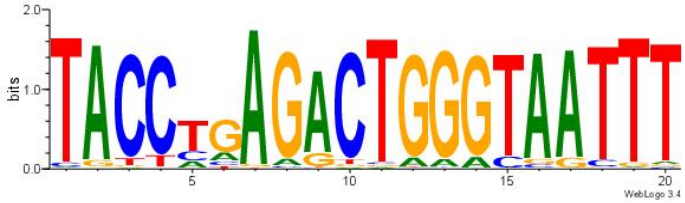

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.103203

Alignment:
ATGTGGAGGTGGAAGACAGT
-CAGGCGGCTGGGAG-----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

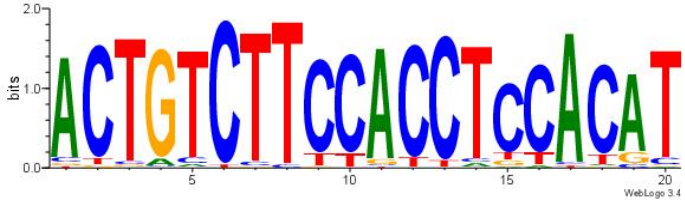

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

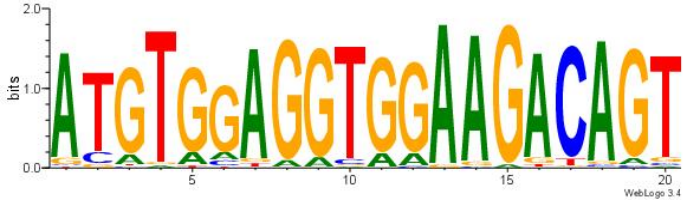

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.104085

Alignment:
GAGSTTGCAGTGAGC
-CAGGCGGCTGGGAG

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

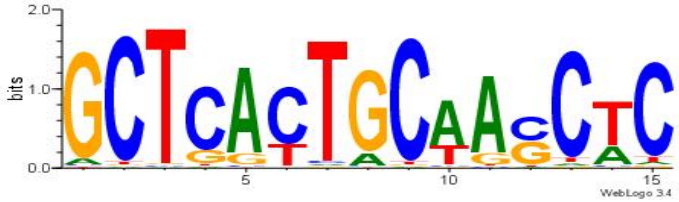

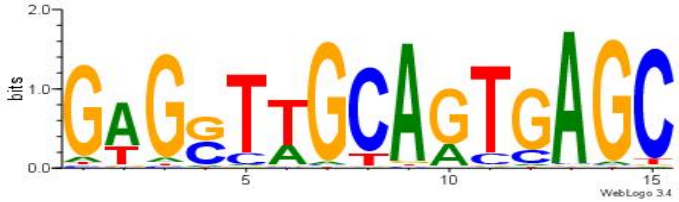

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.104376

Alignment:

```
GCCAGGCAGAGRGKCTCCT
--CAGGCGGCTGGGAG---
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

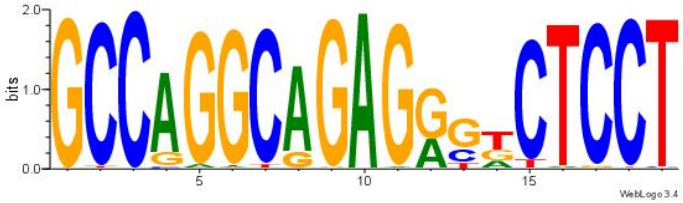

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

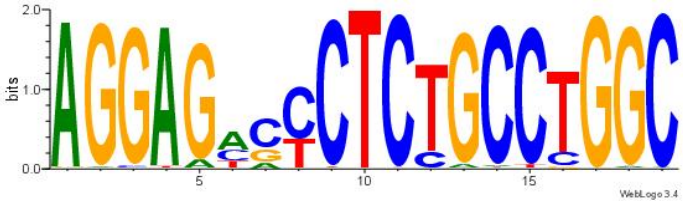

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.104758

Alignment:

```
CAGCTACTCKTATACCCTTG
------CTCCCAGCCGCCTG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

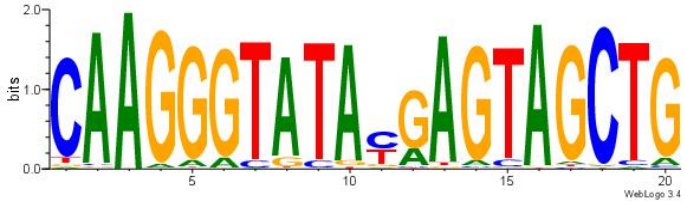

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

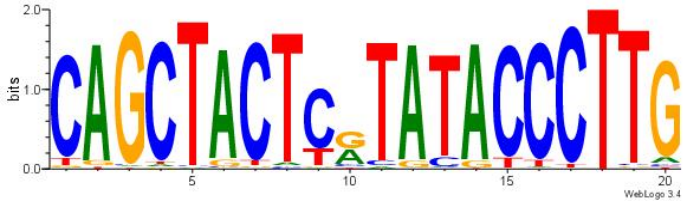

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.105172

Alignment:
CATGGCGGGCTGCAGGTC
-CAGGCGGCTGGGAG---

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

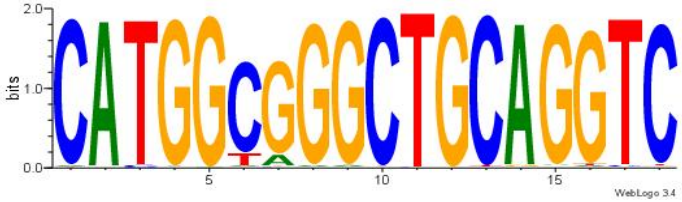

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

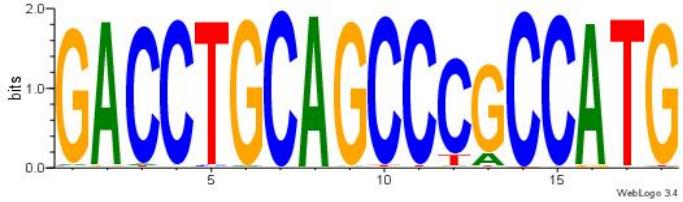

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.106555

Alignment:
AACTGAGGCTCAGAGA
-CAGGCGGCTGGGAG-

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

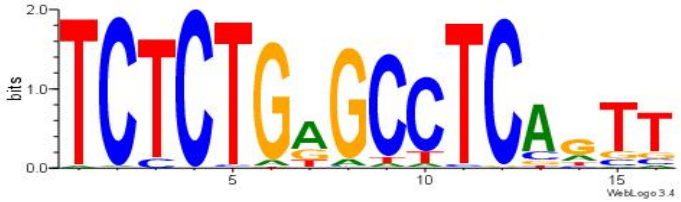

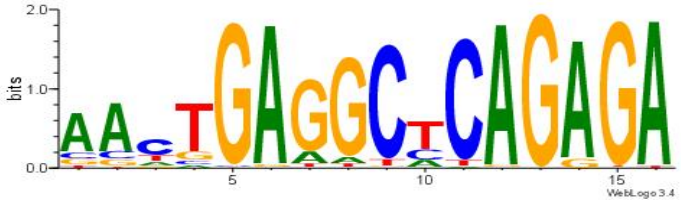

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.106774

Alignment:

```
CGCCCCGTCTGGGAAGTG
---CAGGCGGCTGGGAG-
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

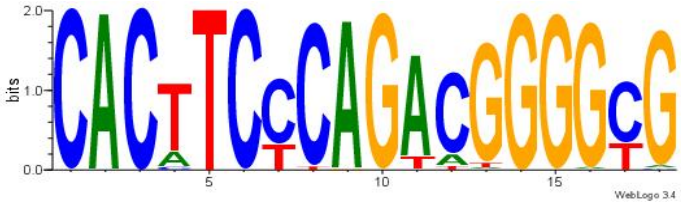

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

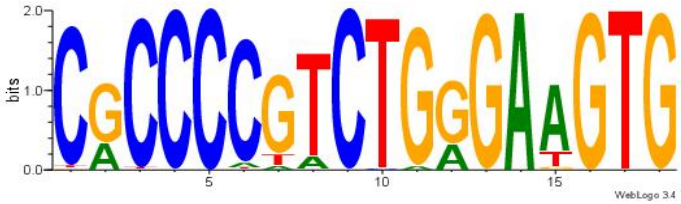

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.107013

Alignment:

```
KGGGCDGAGGGGCTCCT
---CAGGCGGCTGGGAG
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

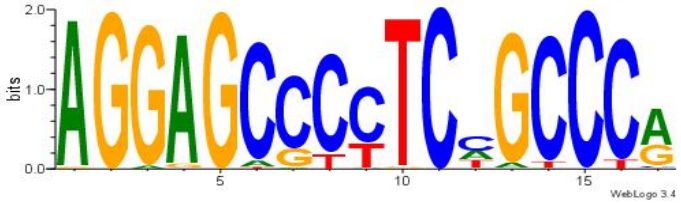

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.107043

Alignment:
ACTCAGCCCRCCTGCACCC
---CAGGCGGCTGGGAG--

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

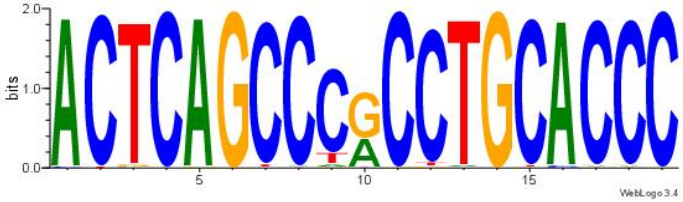

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

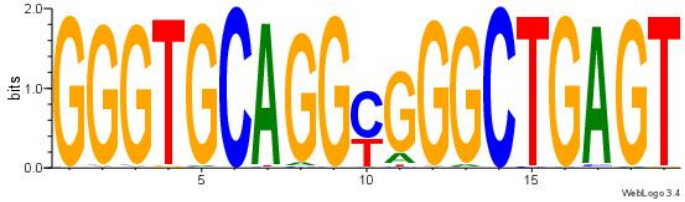

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.107412

Alignment:
GGGAGGTGTCTCCCAGTCAG
--CAGGCGGCTGGGAG----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

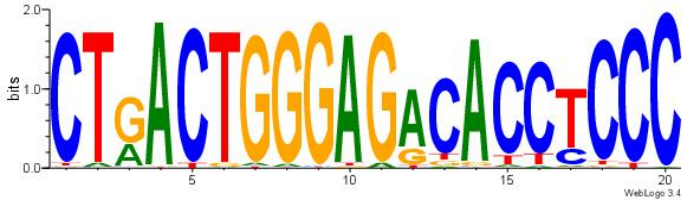

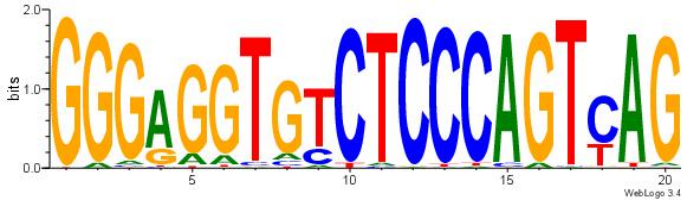

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.109255

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
------CTCCCAGCCGCCTG
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

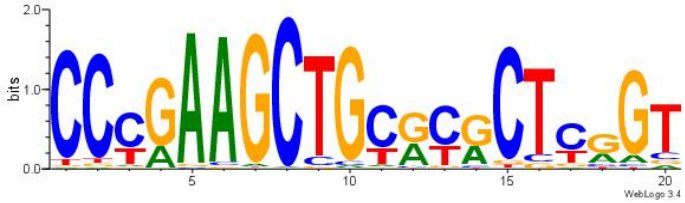

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

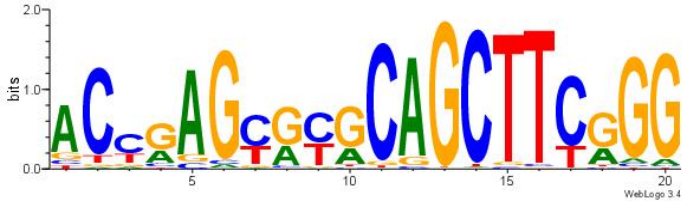

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.109373

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
---CAGGCGGCTGGGAG---
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

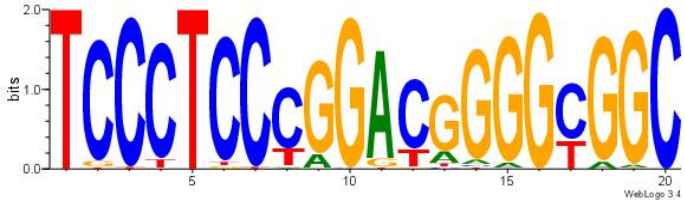

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

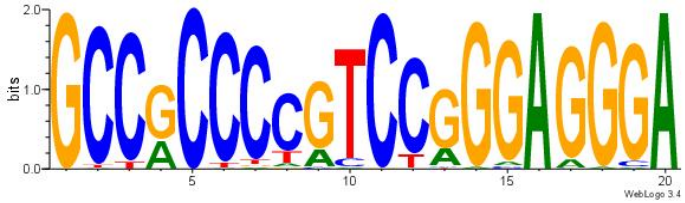

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	14

Similarity score: 0.110421

Alignment:
AGGACTGAGGGTGCCYRGGG
------CAGGCGGCTGGGAG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

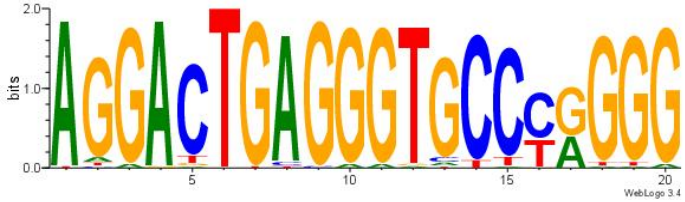

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

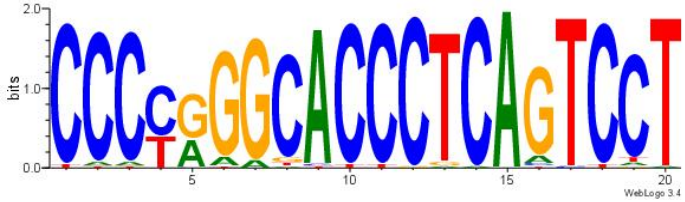

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.112038

Alignment:
GCTGGCCCGCAAGCGCCGCG
-CTCCCAGCCGCCTG-----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

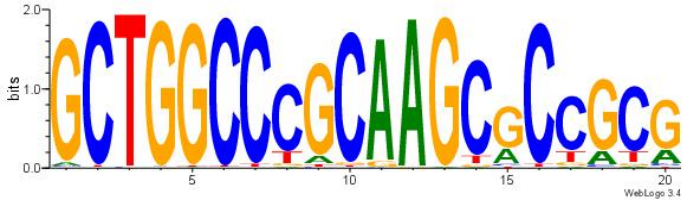

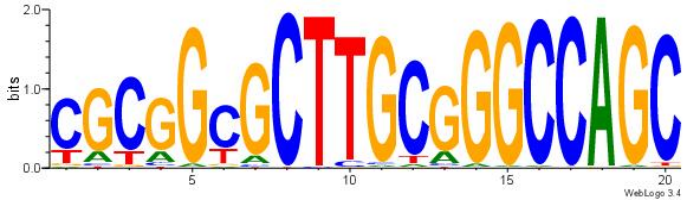

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.112854

Alignment:

```
CATCTGGCAGCCCA
CTCCCAGCCGCCTG
```

Original motif Consensus sequence: CATCTGGCAGCCCA

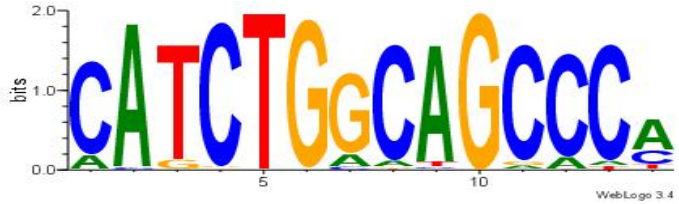

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

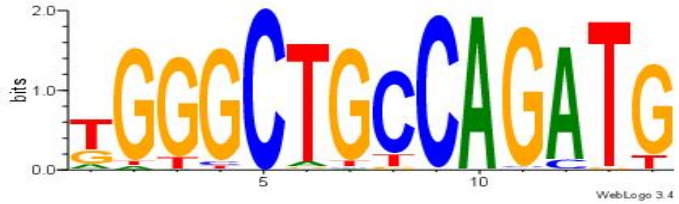

Dataset #:	1
Motif ID:	307

Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.113832

Alignment:

```
AGATGCCAGCCAGAGCTCT
--CTCCCAGCCGCCTG---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

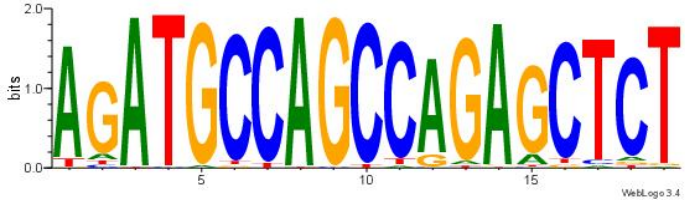

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

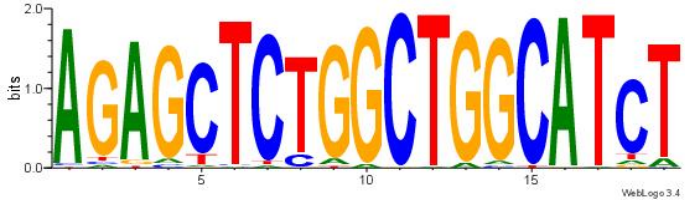

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.114611

Alignment:
AAGCTCGAACTGGGTGGAGC
-----CAGGCGGCTGGGAG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

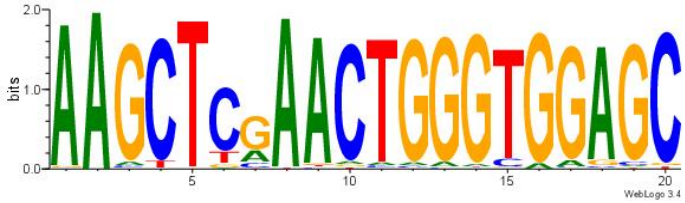

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

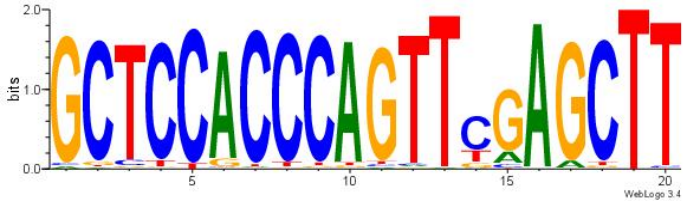

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.11476

Alignment:
AGAAAGGCATGTGAAAA
---CAGGCGGCTGGGAG

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence:
TTTTCACATGCCTTTCT

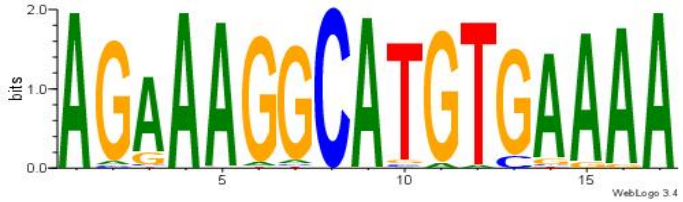

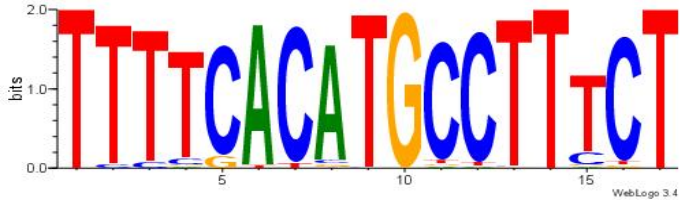

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.114844

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--CTCCCAGCCGCCTG----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

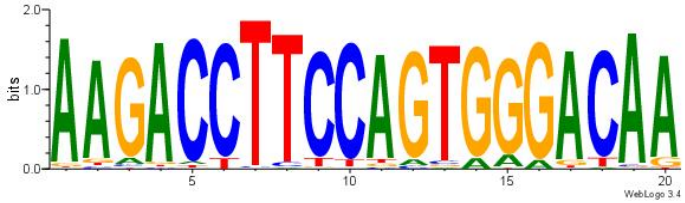

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

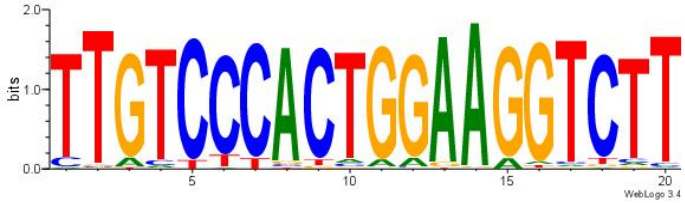

Dataset #: 1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.115218

Alignment:

```
TGGATGGATGGATGGAT
CAGGCGGCTGGGAG---
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

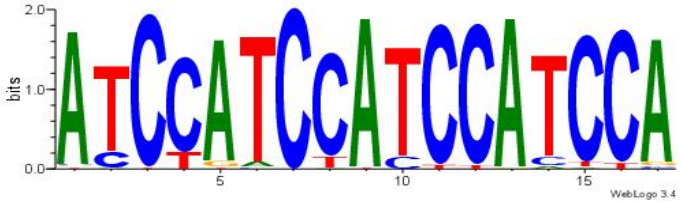

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.115931

Alignment:
GCCTCTCCCTCCACACCTCC
--CTCCCAGCCGCCTG----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

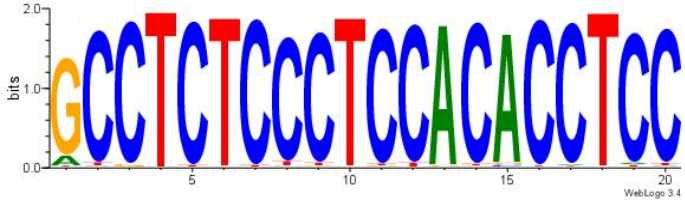

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

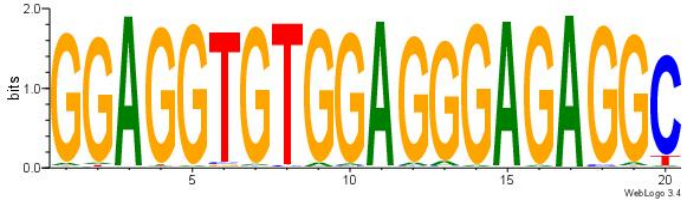

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.11595

Alignment:
VCCDCCTCCKCCTCCTC
CTCCCAGCCGCCTG---

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

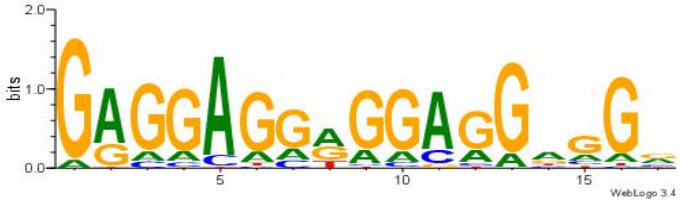

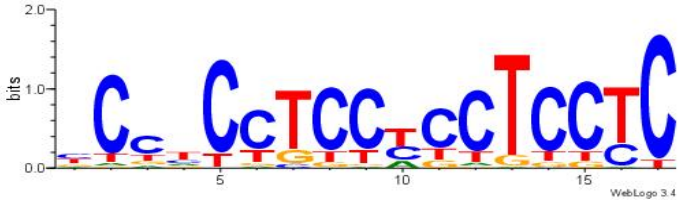

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.116065

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--CTCCCAGCCGCCTG----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

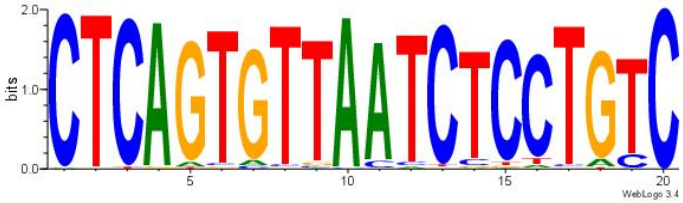

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

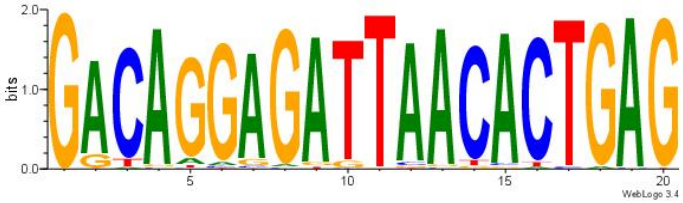

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.116125

Alignment:

```
TCAATGGGCTCCCAAATG
---CAGGCGGCTGGGAG-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

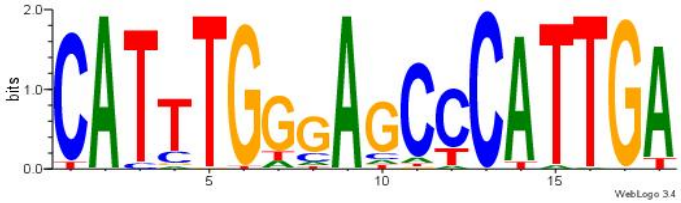

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

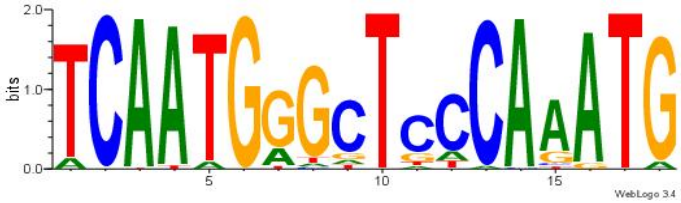

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.116274

Alignment:
GGTGCCCCTCTGGGACRAA
--CAGGCGGCTGGGAG---

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

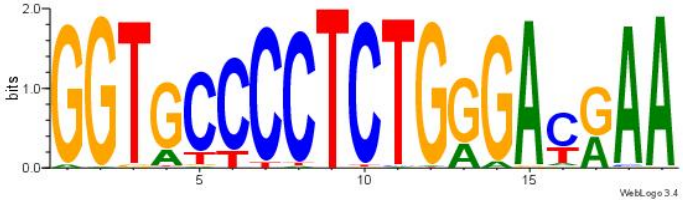

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

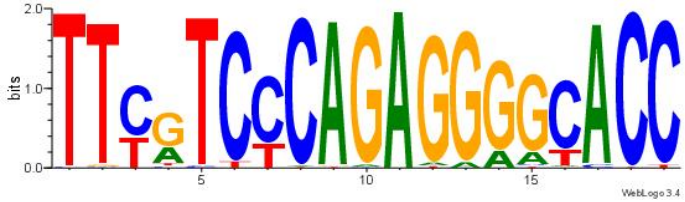

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.116362

Alignment:
TGHCCTGCKCCCACTGTCT
--CTCCCAGCCGCCTG---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

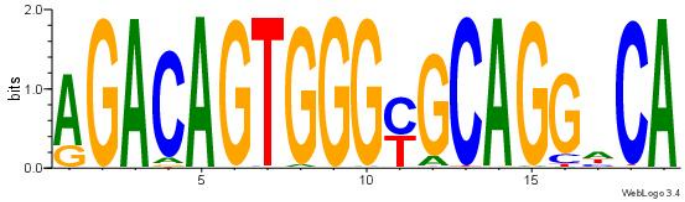

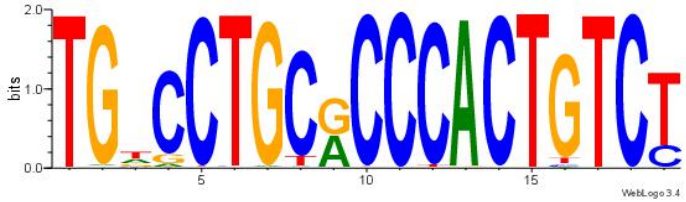

Dataset #:	1
Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.116606

Alignment:

```
TGGCCTGTTAGGAA
CAGGCGGCTGGGAG
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

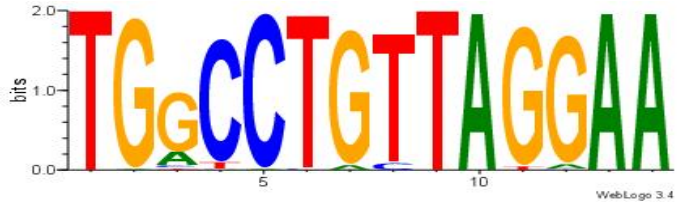

Reverse complement motif Consensus sequence: TTCCTAACAGGCCA

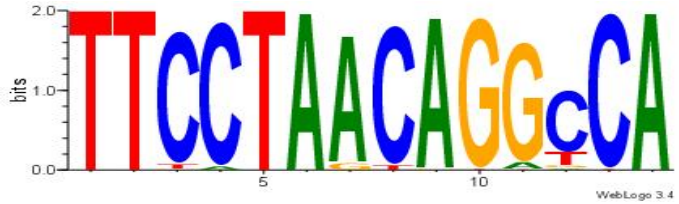

Dataset #:	1
Motif ID:	164

Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.11677

Alignment:

```
AGCCCCGGTTCCCGCYCGC
-----CTCCCAGCCGCCTG
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

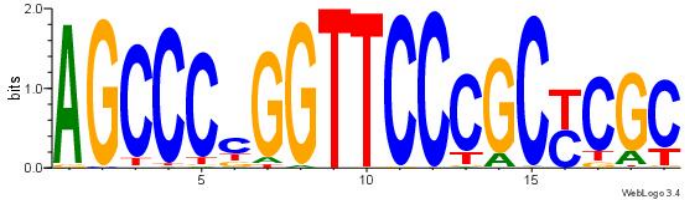

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

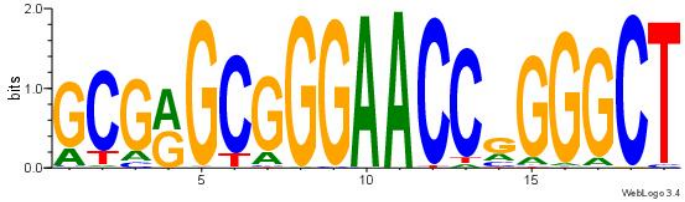

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.116995

Alignment:
CACTTTCCAGACTGGGCA
CTCCCAGCCGCCTG----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

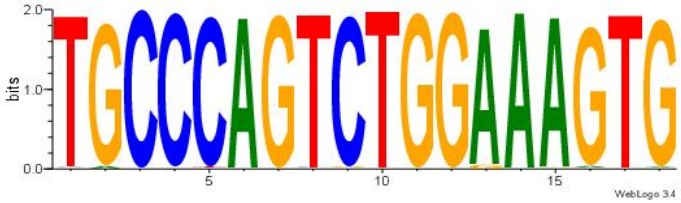

Reverse complement motif Consensus sequence:
CACTTTCCAGACTGGGCA

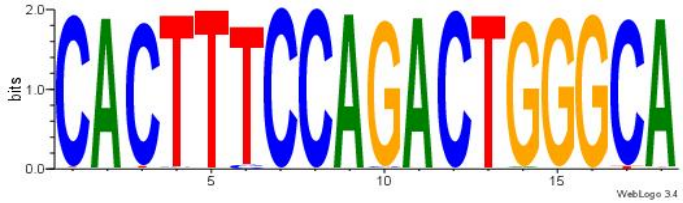

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.117053

Alignment:
AGTTGTAATTGGGAGACTT
-CAGGCGGCTGGGAG----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

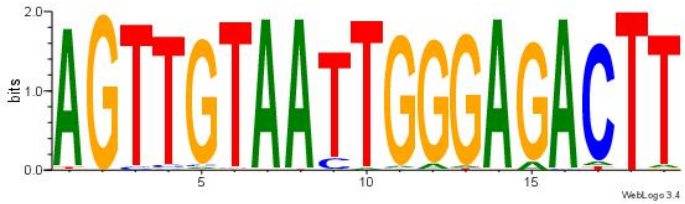

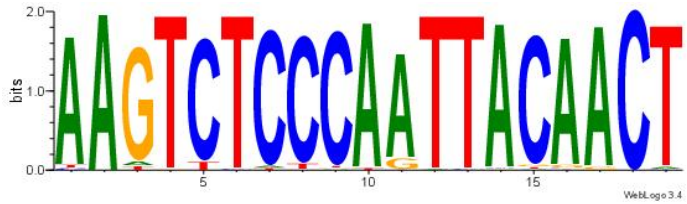

Dataset #: 1 Motif ID: 287 Motif name: Motif 287

Original motif Consensus sequence: CATTATGCTAARTG

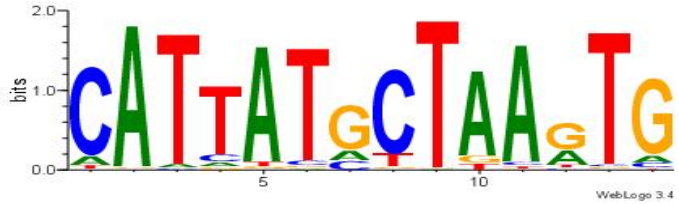

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

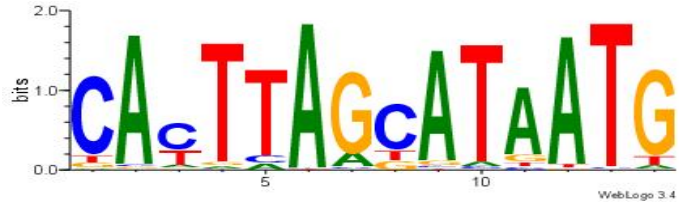

Best Matches for Motif ID 287 (Highest to Lowest)

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0753566

Alignment:

```
GTTATTAATTGGCCTAATTT
-----CAMTTAGCATAATG-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

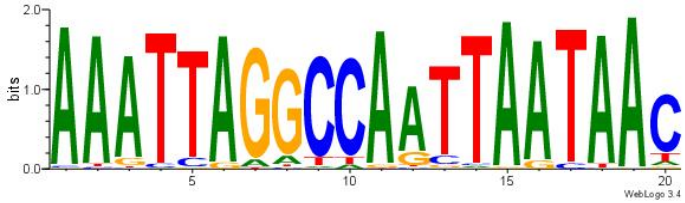

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0796028

Alignment:

```
GCAGCAMTATTCACAATAG
----CAMTTAGCATAATG-
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

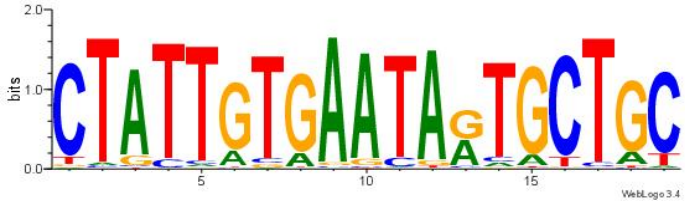

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

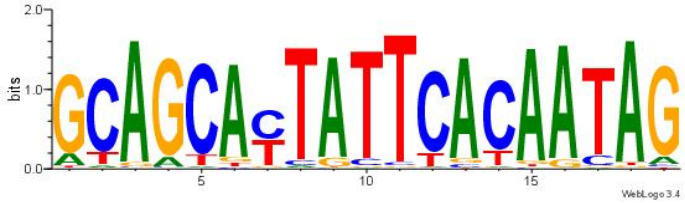

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0797498

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-CAMTTAGCATAATG-----
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

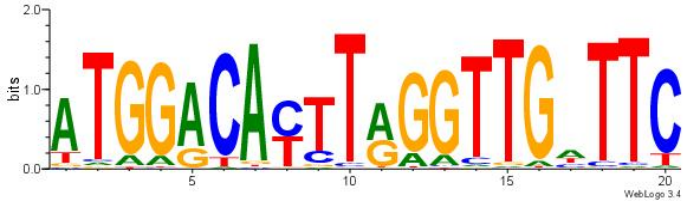

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

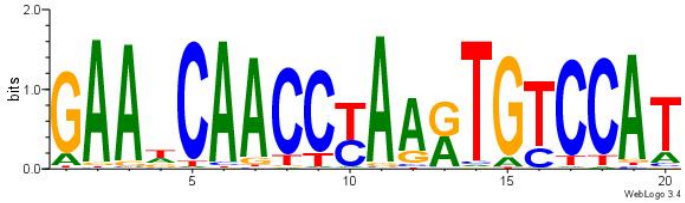

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.0807351

Alignment:
CACTTTCCAGACTGGGCA
CAMTTAGCATAATG----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

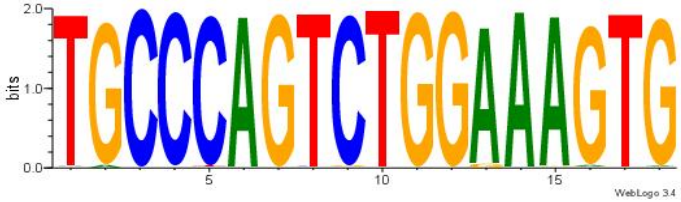

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

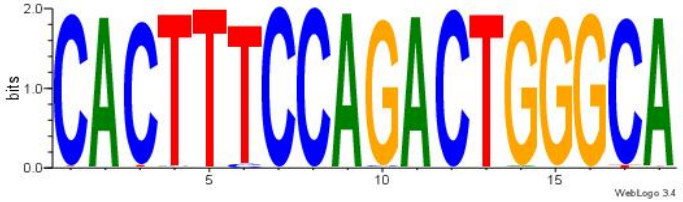

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.090033

Alignment:
CCTAGATTTCAGARGATGT
-CAMTTAGCATAATG----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

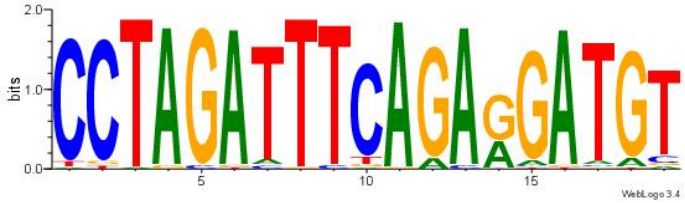

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

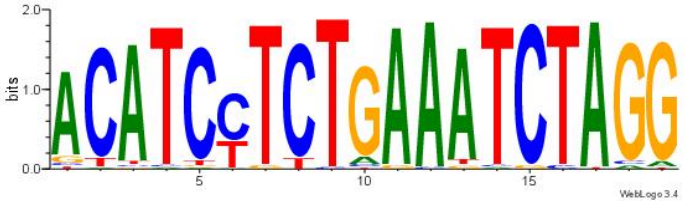

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0935301

Alignment:

```
AACCCTATTGTGAACTGYG
---CATTATGCTAARTG--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

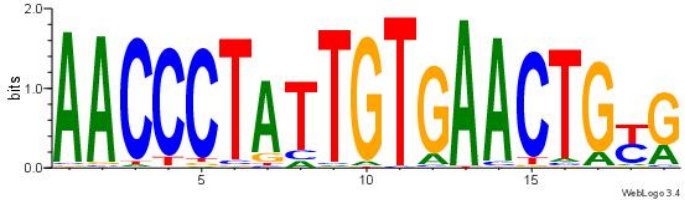

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

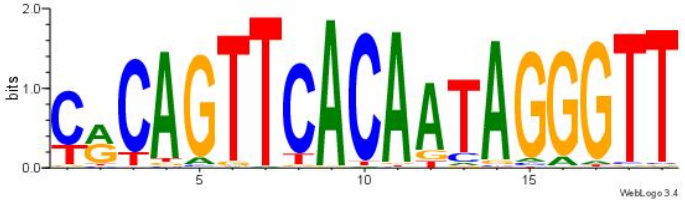

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0938659

Alignment:

```
ATATTGATGATCCTGACC
---CAMTTAGCATAATG-
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

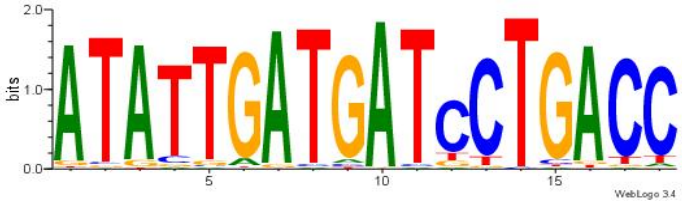

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

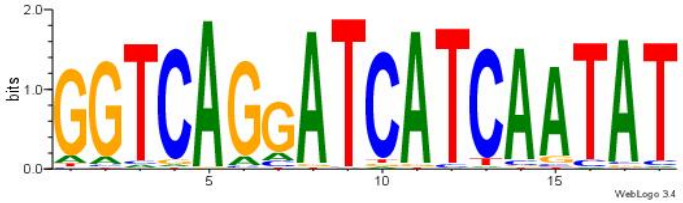

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0940115

Alignment:
ATTCAASATGAGATTTGGG
--CATTATGCTAARTG---

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

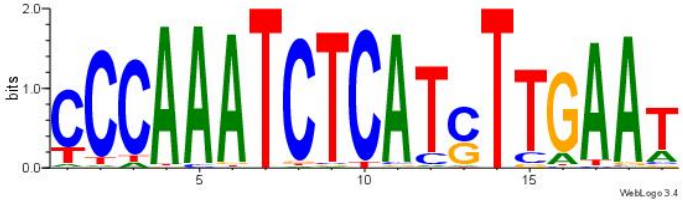

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

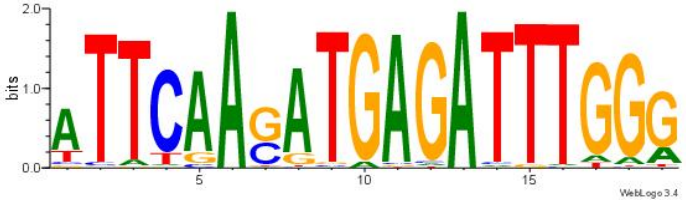

Dataset #: 1
Motif ID: 27
Motif name: Motif 27
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.094813

Alignment:
CGCCCCGTCTGGGAAGTG
CATTATGCTAARTG----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

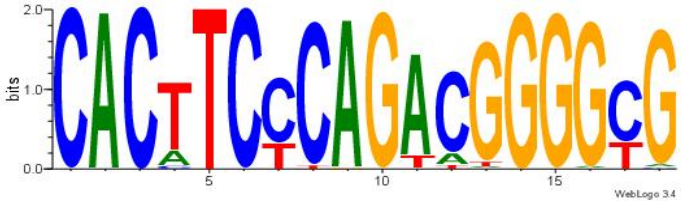

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

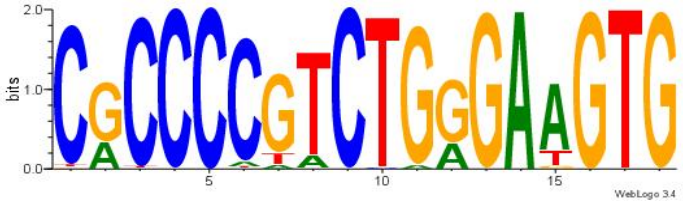

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0955795

Alignment:

```
TTCAMTCATGATTTGGCTCT
--CAMTTAGCATAATG----
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

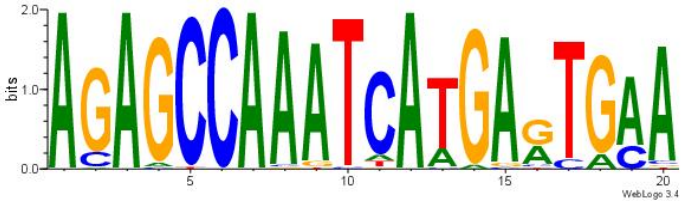

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

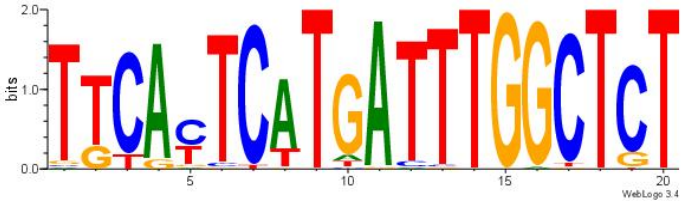

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0956232

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
----CATTATGCTAARTG--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

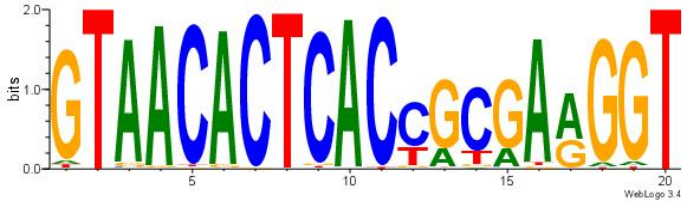

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

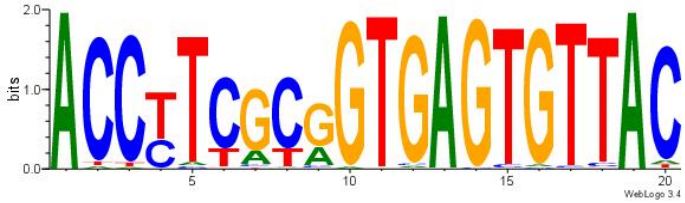

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7

Number of overlap: 14
Similarity score: 0.097006

Alignment:
GAAACTGCTTTGTGATGTGT
------CATTATGCTAARTG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

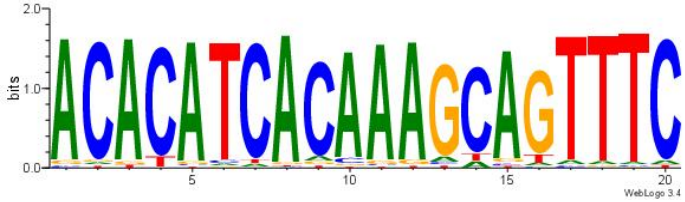

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

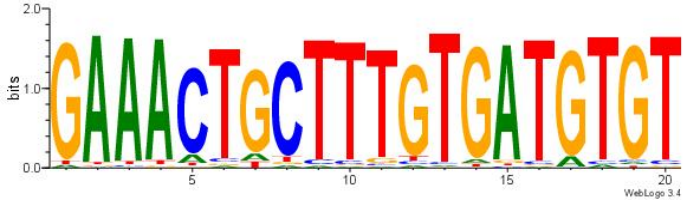

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0982071

Alignment:
CATTCTGGGGTCTGGAGGAY
CATTATGCTAARTG------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

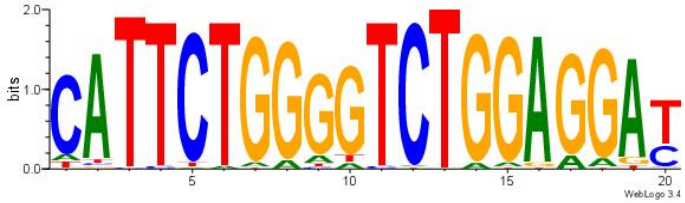

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

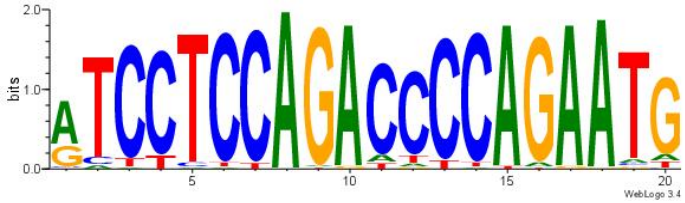

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.101658

Alignment:

```
AATGAGTTAAGACTTTG
CAMTTAGCATAATG---
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

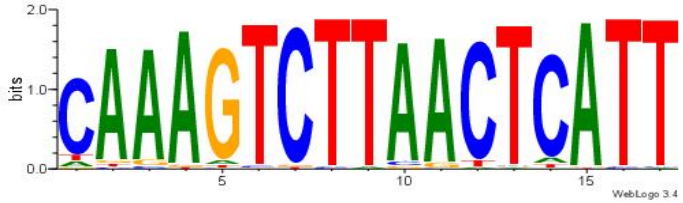

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.101734

Alignment:

```
AATGAKATCATGTCYTTTGC
-CATTATGCTAARTG-----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

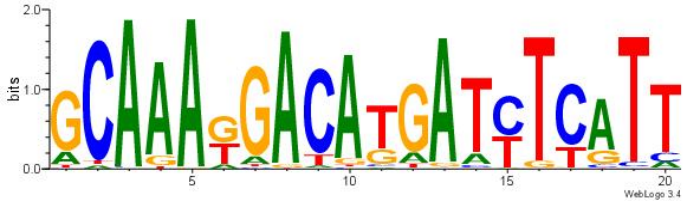

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

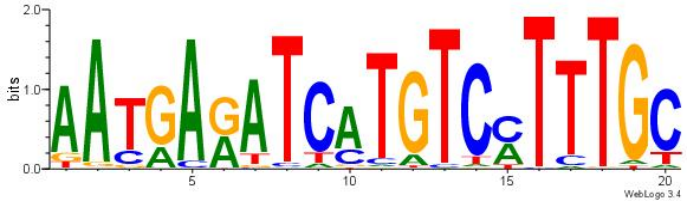

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.101923

Alignment:
AAAATGTGGTAYATAYAYAC
-CATTATGCTAARTG-----

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

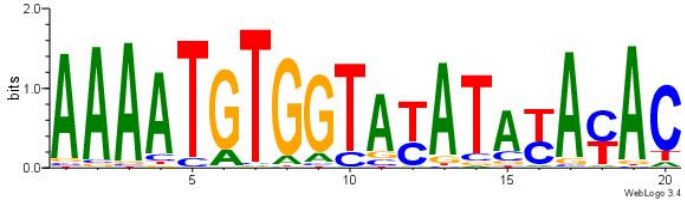

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

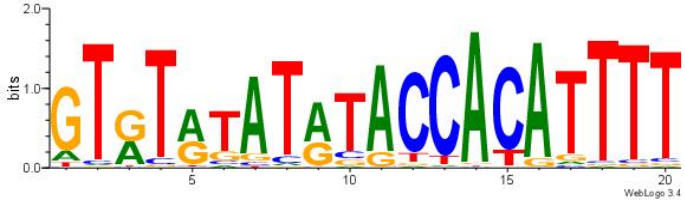

Dataset #: 1
Motif ID: 74
Motif name: Motif 74
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.103307

Alignment:
CACTTCCTAGATGG
CAMTTAGCATAATG

Original motif Consensus sequence: CACTTCCTAGATGG

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

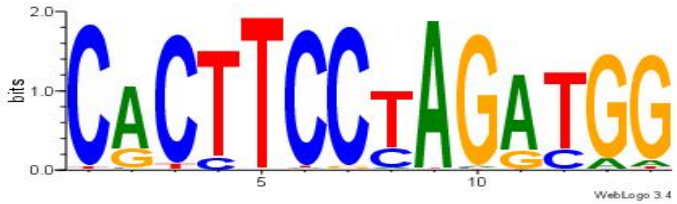

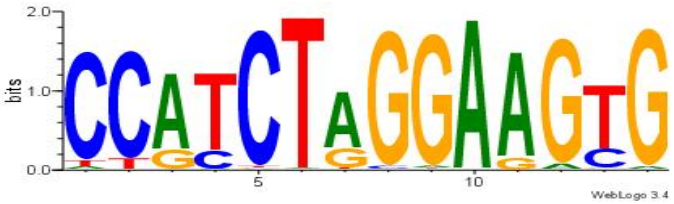

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.103719

Alignment:

```
ACCCYGTCTGGGAGGTG
---CATTATGCTAARTG
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

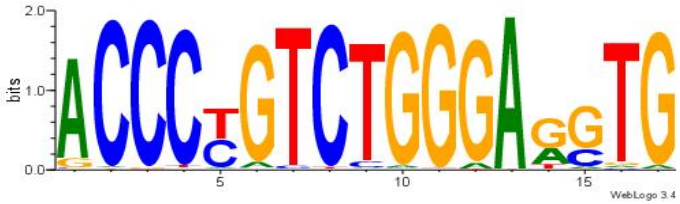

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

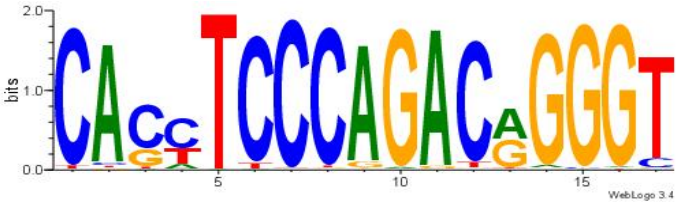

Dataset #:	1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.104174

Alignment:

```
KACGGGCTTAARAAACGGC
----CAMTTAGCATAATG-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

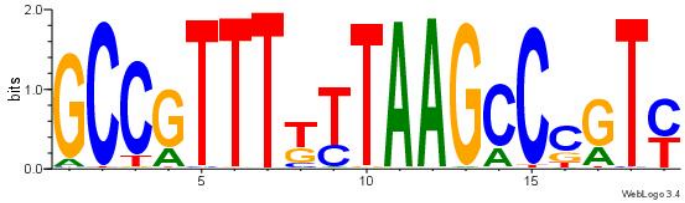

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

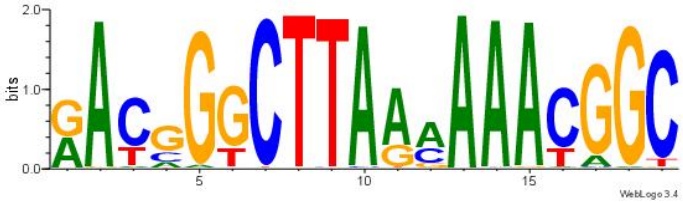

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.10465

Alignment:
GCCAATTTCTCCCATTTGGA
--CATTATGCTAARTG----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

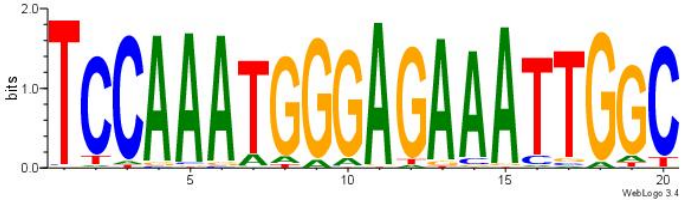

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

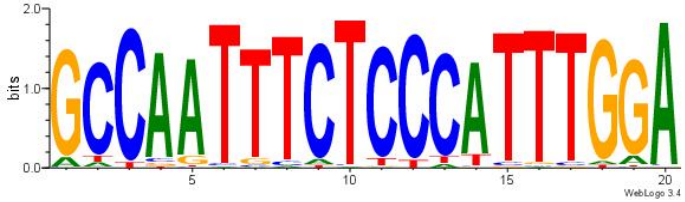

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.104868

Alignment:
ARCTCCTGKSCTCAAGKGAT
--CAMTTAGCATAATG----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

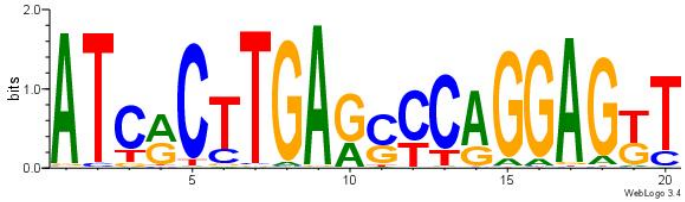

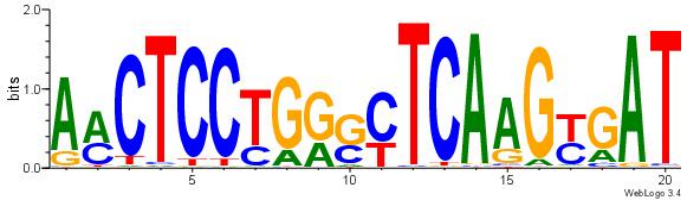

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.105347

Alignment:

```
ATCATTCTTATGCCTTTG
--CATTATGCTAARTG--
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

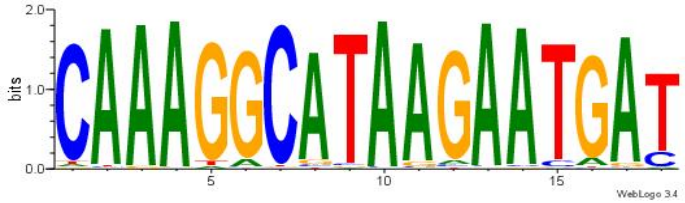

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

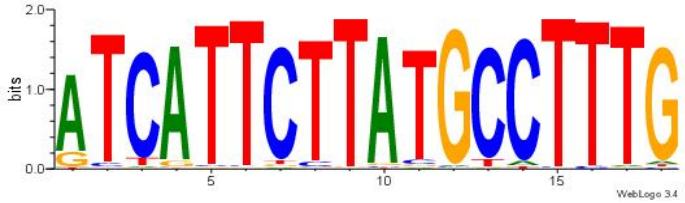

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.105459

Alignment:

```
AAATTACCCAGTCTCAGGTA
--CAMTTAGCATAATG----
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

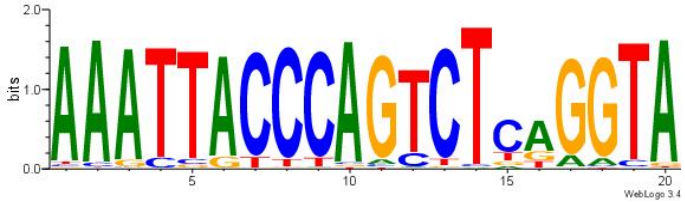

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

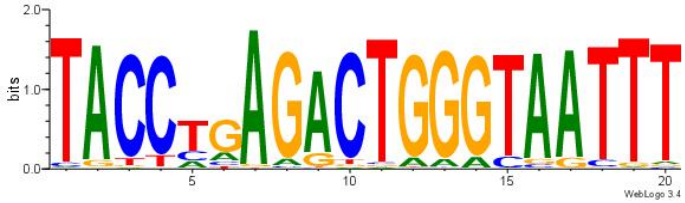

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14

Similarity score: 0.106658

Alignment:
AGTGAGAACATRYRRTRTTT
-----CATTATGCTAARTG-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

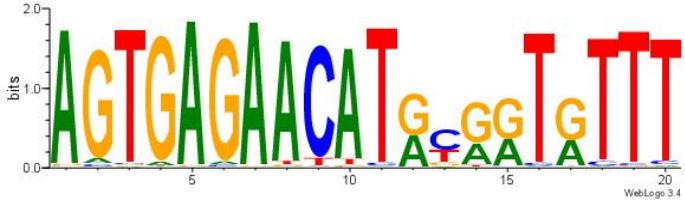

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

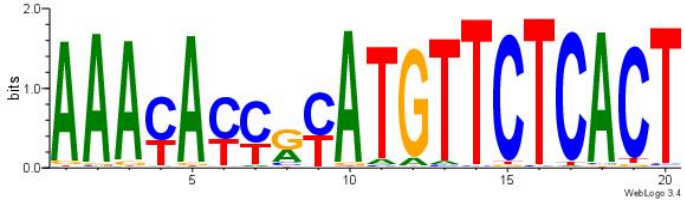

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.107428

Alignment:
AAGTCTCCCAATTACAACT
-----CATTATGCTAARTG

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

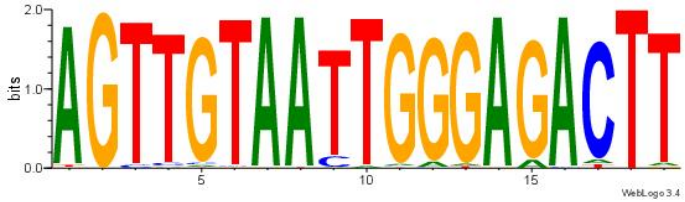

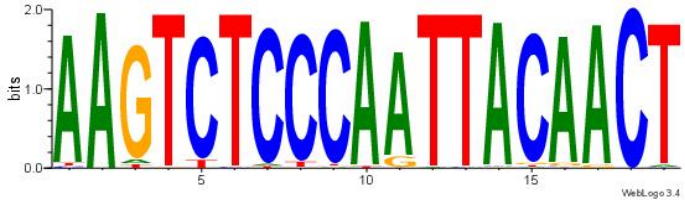

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.107585

Alignment:

```
AGTAGGTGCTCARTAAATRB
-CATTATGCTAARTG-----
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

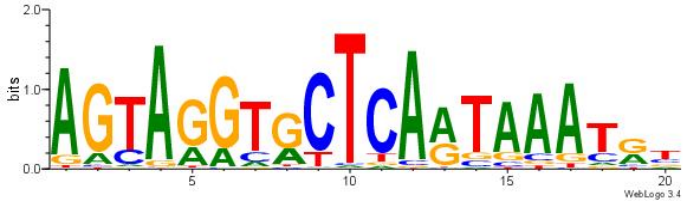

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

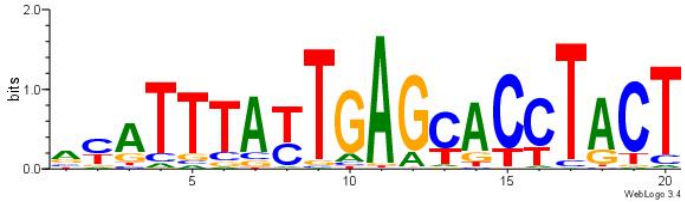

Dataset #: 1

Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.107647

Alignment:

```
TTTTATAGGATTTGGG
--CATTATGCTAARTG
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

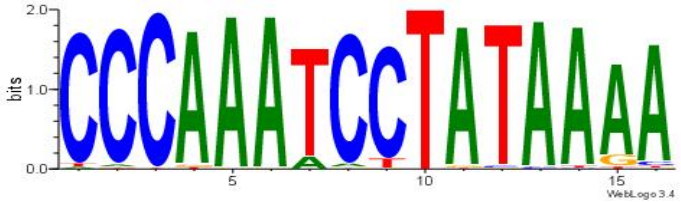

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

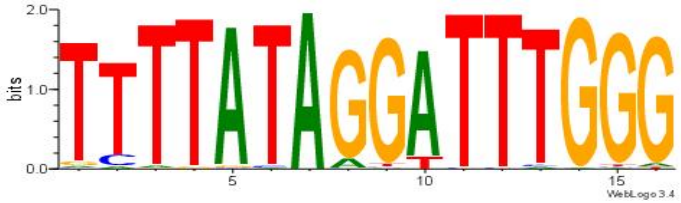

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.107837

Alignment:
TCTCTGAGCCTCAGTT
-CAMTTAGCATAATG-

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

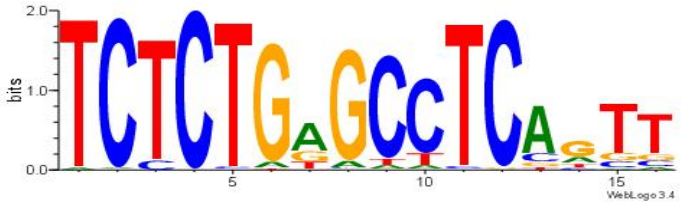

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

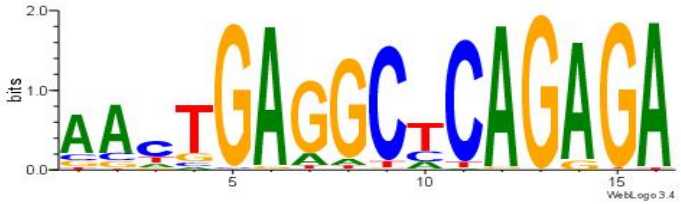

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.1081

Alignment:
ATAGGAATGCTTGTGATTTT
-CATTATGCTAARTG-----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

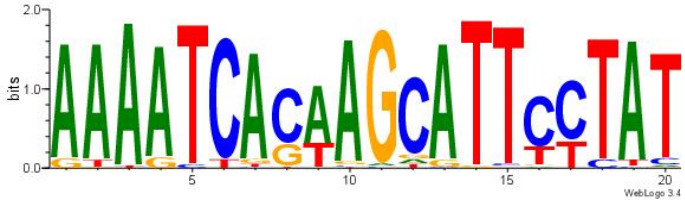

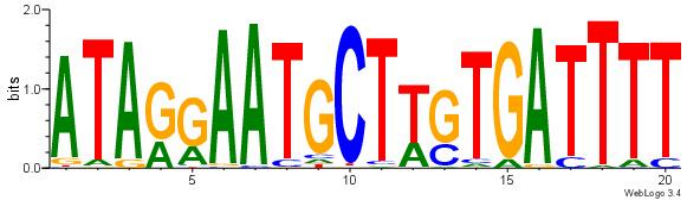

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.108147

Alignment:

```
CCTTTGACTCCATGTC
CATTATGCTAARTG--
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

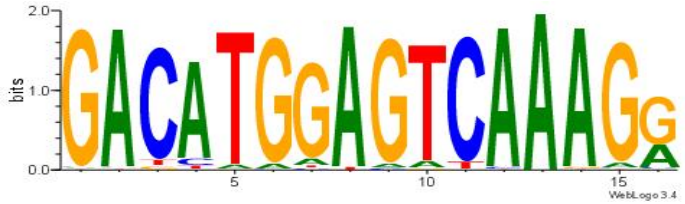

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

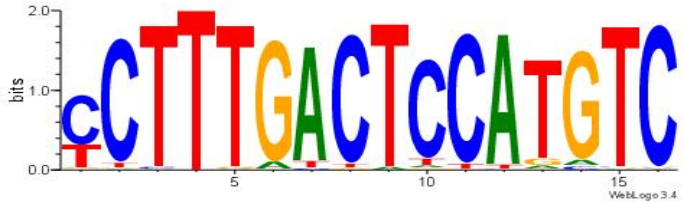

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.108457

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CATTATGCTAARTG------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

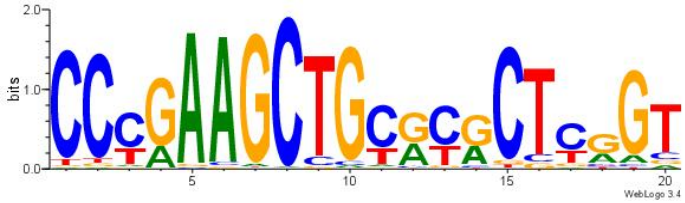

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

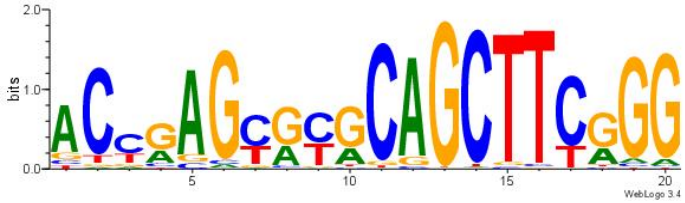

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.10849

Alignment:
GKCTGTACCCCCATTGTAT
---CATTATGCTAARTG--

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

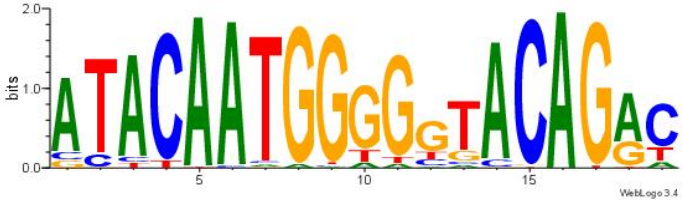

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

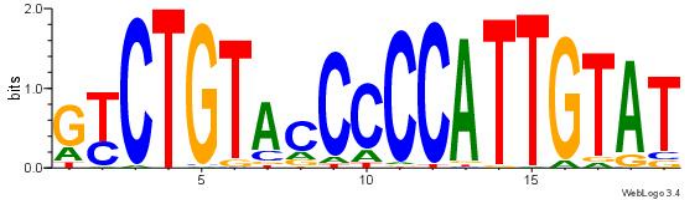

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.108951

Alignment:
AGCTGTGAGAAGAGGGCCAC
--CAMTTAGCATAATG----

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

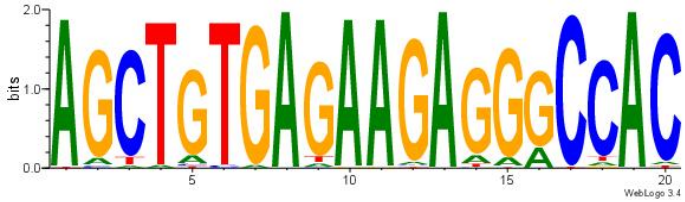

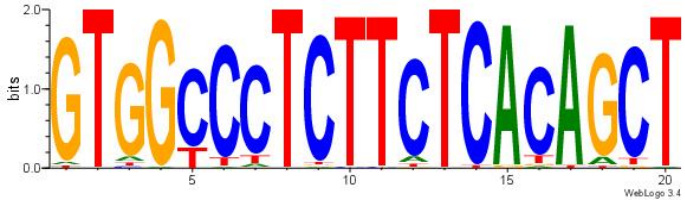

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.109347

Alignment:

```
ACCCAATWTGTAGTCTTTTA
---CAMTTAGCATAATG---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

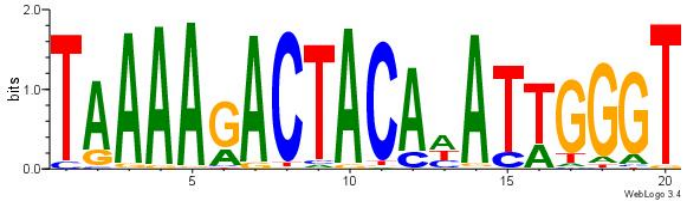

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

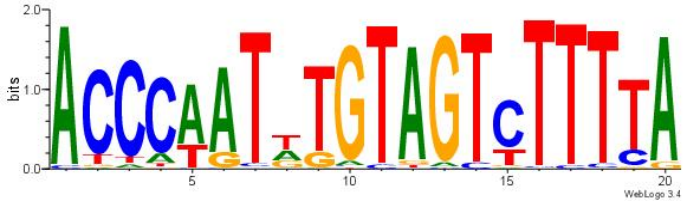

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.110181

Alignment:

```
GCCAGTCACAAAARGACAMA
-----CAMTTAGCATAATG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

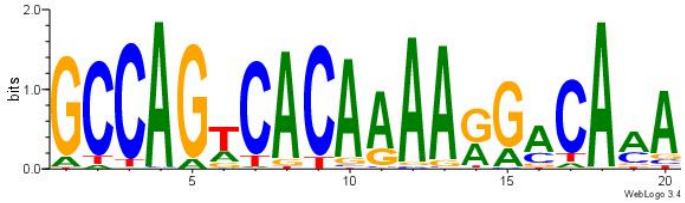

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

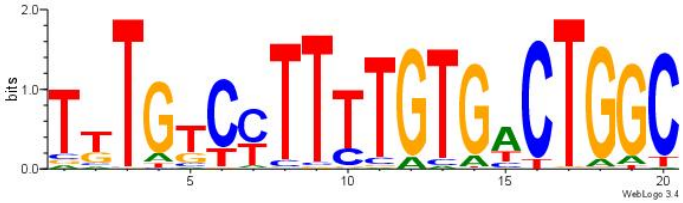

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.1105

Alignment:
CTCCTGCCTCAGCCTCCCRA
-CAMTTAGCATAATG-----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

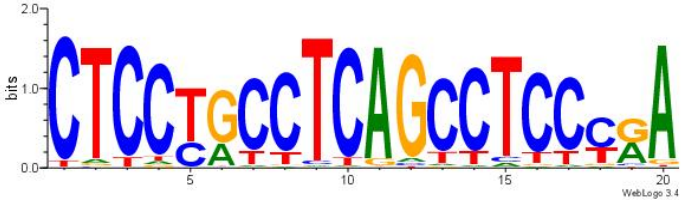

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

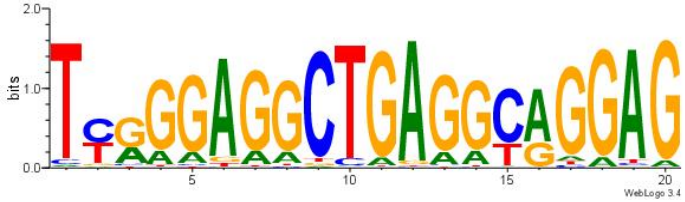

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.110625

Alignment:
GCCCTCACCAGAAGC
CAMTTAGCATAATG-

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

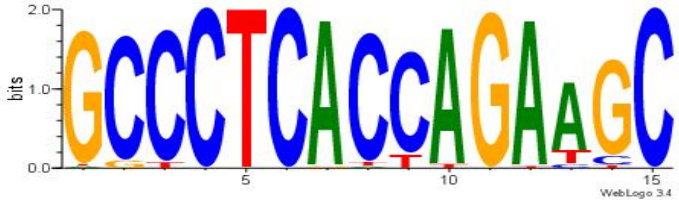

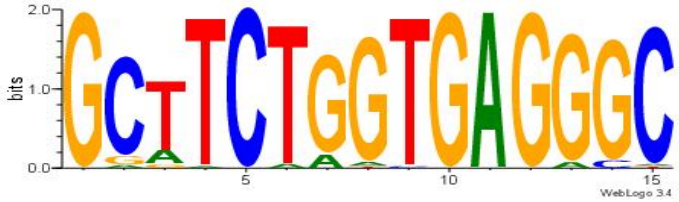

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.111124

Alignment:

```
CTCCAGKTMCATCCATGTTG
---CAMTTAGCATAATG---
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

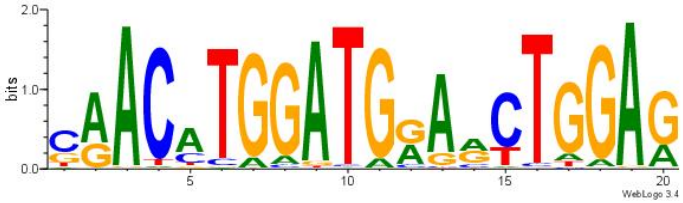

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

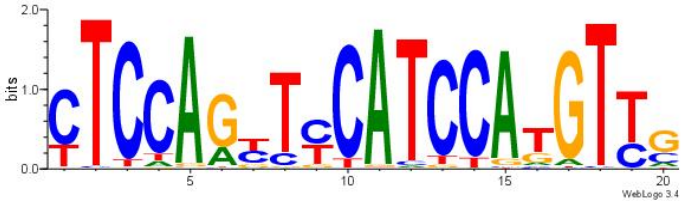

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.111415

Alignment:

```
AACAACASACACTGGGGCCT
CAMTTAGCATAATG------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

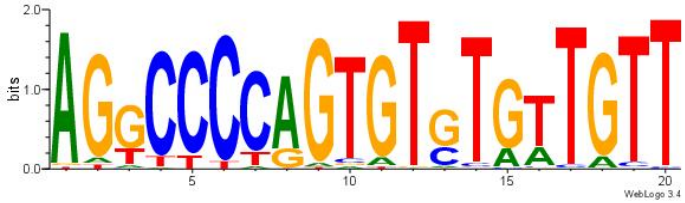

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

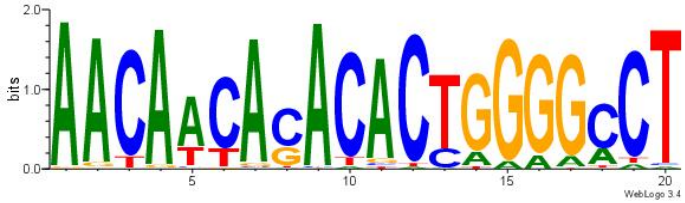

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.112418

Alignment:
AGCTAGAYACAGAGTGC
--CATTATGCTAARTG-

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

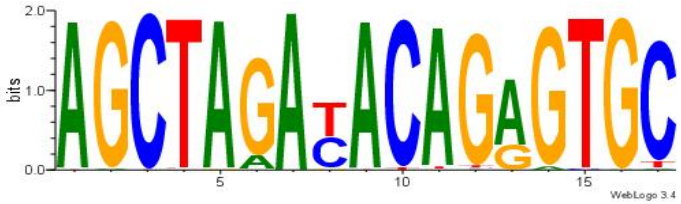

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

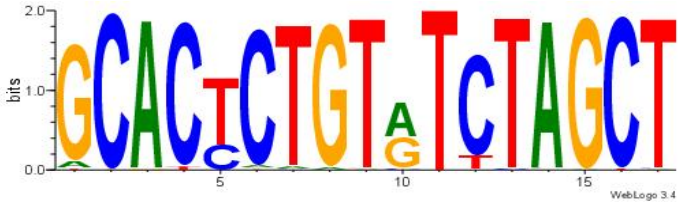

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.113019

Alignment:
CTGGGCTCCTGAGTCTGGTG
CAMTTAGCATAATG------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

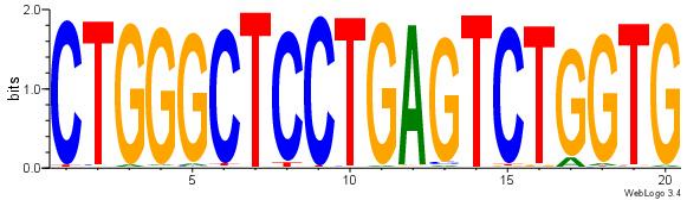

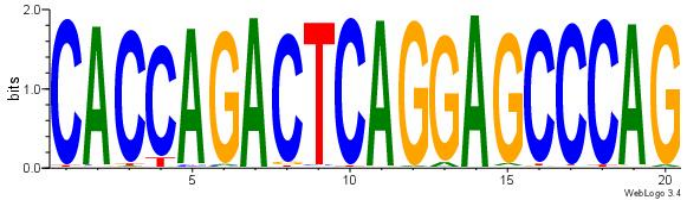

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.11307

Alignment:

```
CAGCTACTCKTATACCCTTG
------CAMTTAGCATAATG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

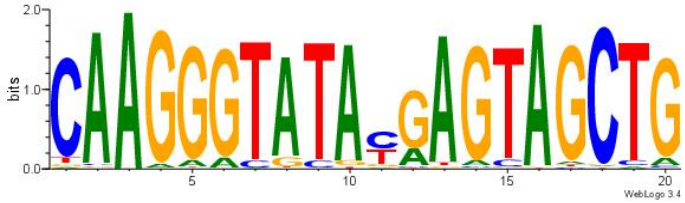

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

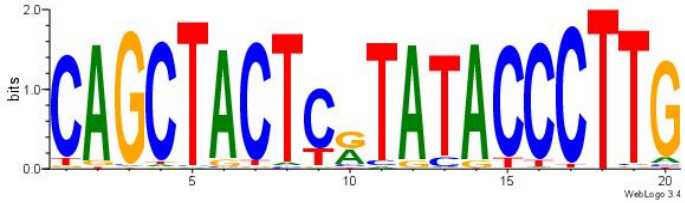

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.113263

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
CAMTTAGCATAATG------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

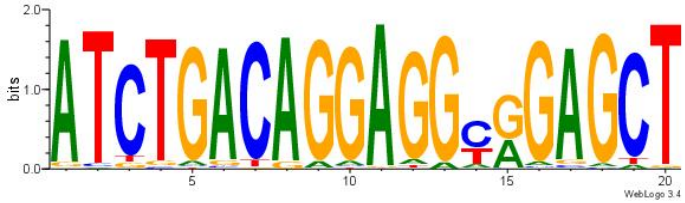

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

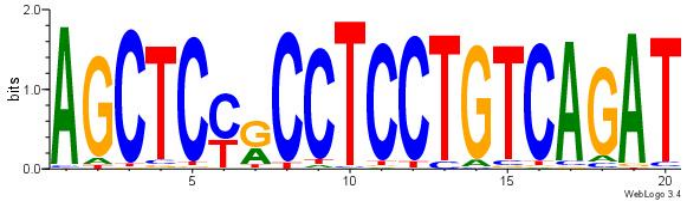

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.113739

Alignment:
TTYTTGTTGTTGTTGTT
--CATTATGCTAARTG-

Original motif Consensus sequence: AACAACAACAACAAMAA

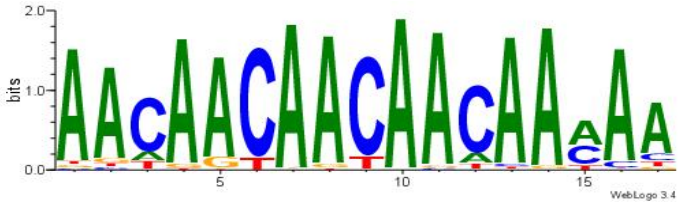

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

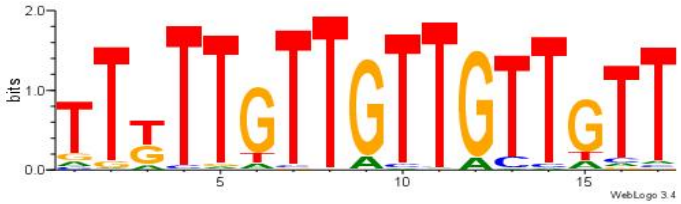

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.113977

Alignment:
CGGCGCTGMGCTCGATTTCT
---CAMTTAGCATAATG---

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

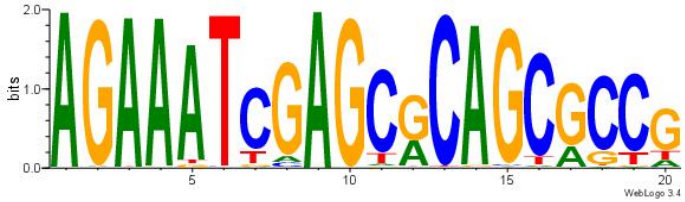

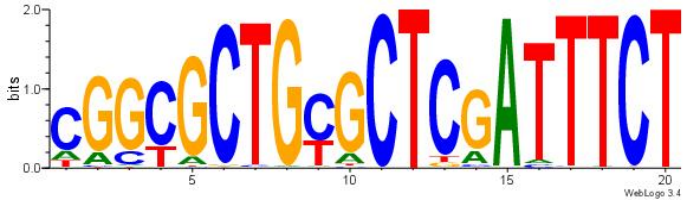

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.114124

Alignment:
CACCAGGAGATTATATCCCR
---CATTATGCTAARTG---

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

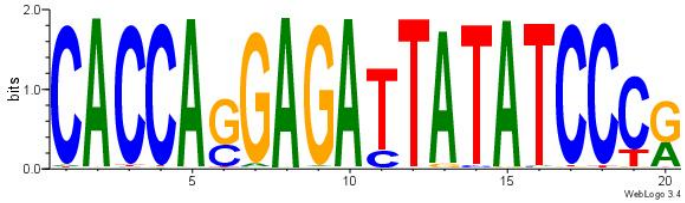

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

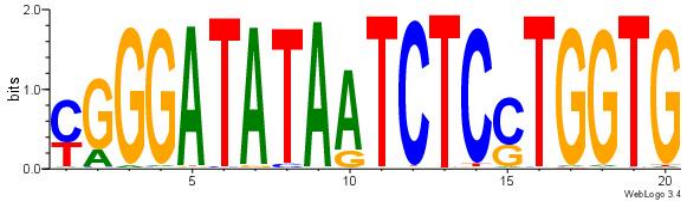

Dataset #: 1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.114848

Alignment:

```
TCCTATGAGAATCTAATG
--CAMTTAGCATAATG--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

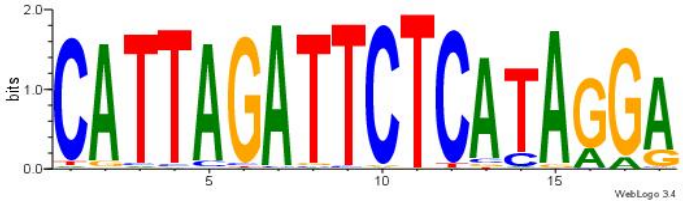

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

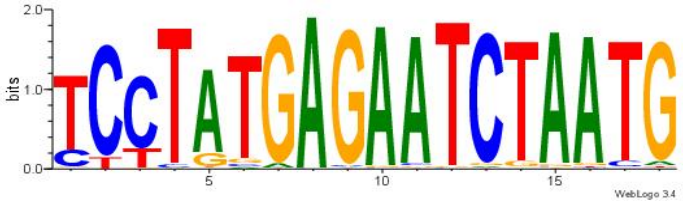

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.11485

Alignment:
CATTTGGGAGCCCATTGA
----CAMTTAGCATAATG

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

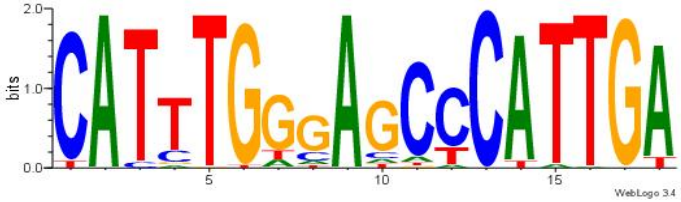

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

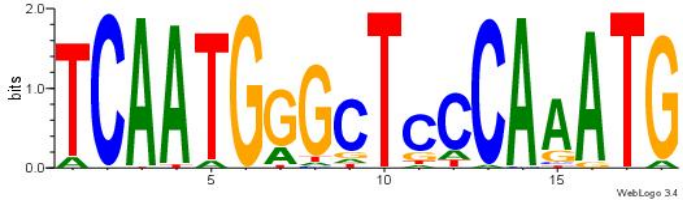

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.115247

Alignment:
GTTGTGAGGATTAAATGAG
-CAMTTAGCATAATG----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

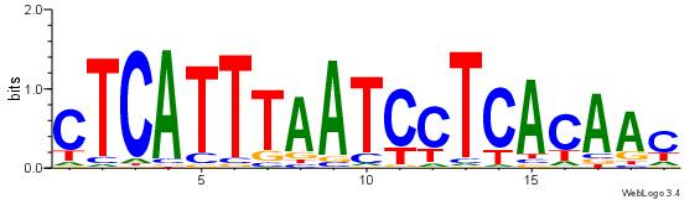

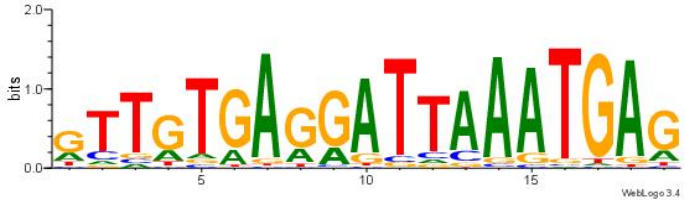

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.115325

Alignment:

```
TAGTGGTGATTTSTGAGAT
----CATTATGCTAARTG-
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

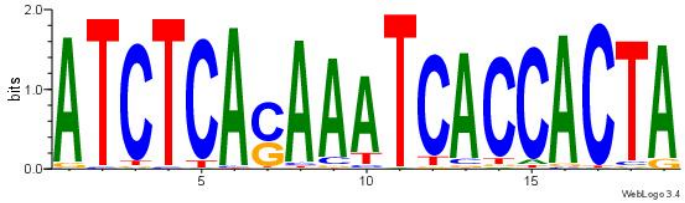

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

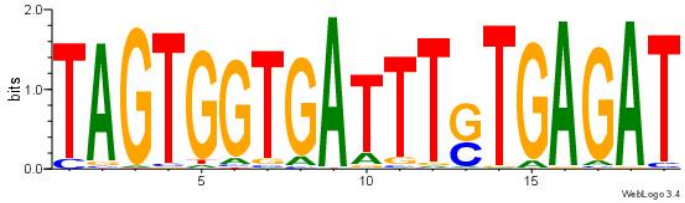

Dataset #: 1 Motif ID: 288 Motif name: Motif 288

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Best Matches for Motif ID 288 (Highest to Lowest)

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0450065

Alignment:

```
CCCAAATCCTATAAAA
CCCAAGTCCC------
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

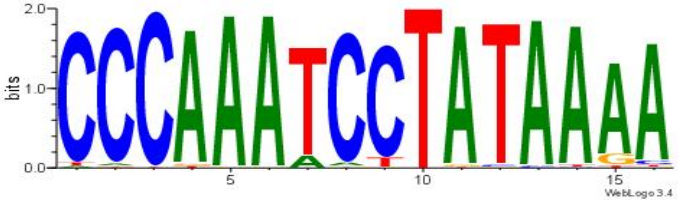

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

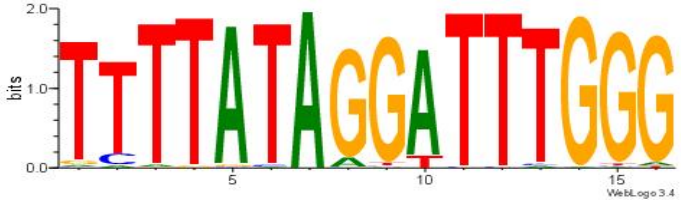

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0494747

Alignment:

```
CCCAAATCTCATSTTGAAT
CCCAAGTCCC---------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

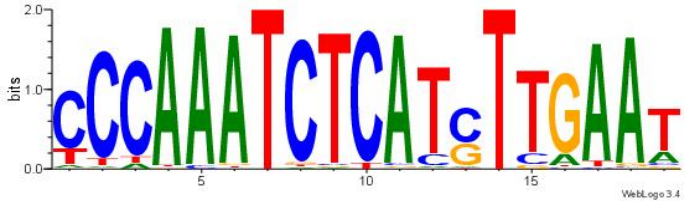

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

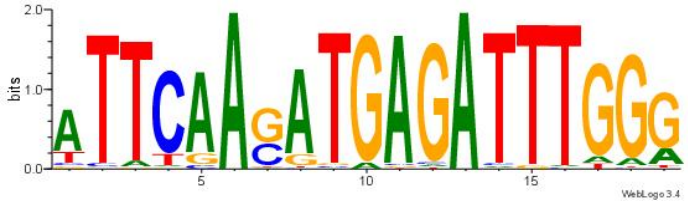

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 10
Similarity score: 0.0498601

Alignment:
ACAAGGCAAGTCCCTTCY
----CCCAAGTCCC----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

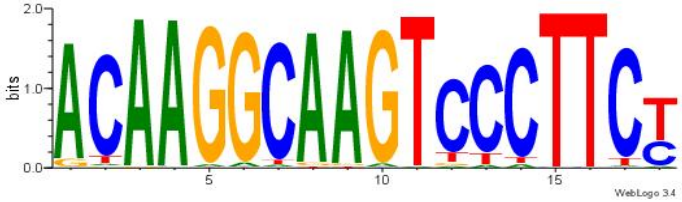

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

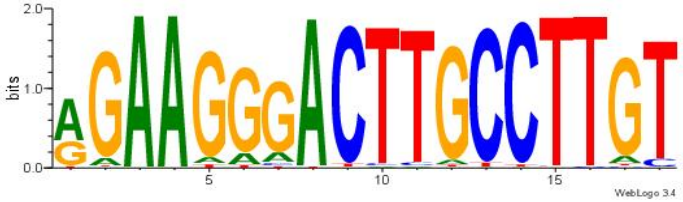

Dataset #: 1
Motif ID: 267
Motif name: Motif 267
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0528606

Alignment:
ATGGACTTGAGA
-GGGACTTGGG-

Original motif Consensus sequence: ATGGACTTGAGA

Reverse complement motif Consensus sequence: TCTCAAGTCCAT

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0606246

Alignment:

```
GCGMGCGGGAACCGGGGCT
-------GGGACTTGGG--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

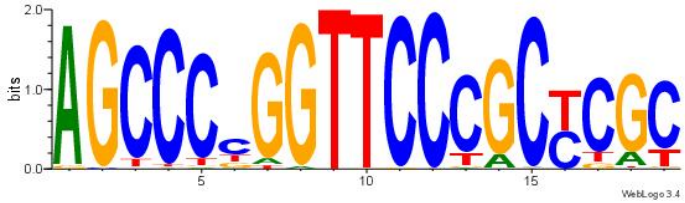

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

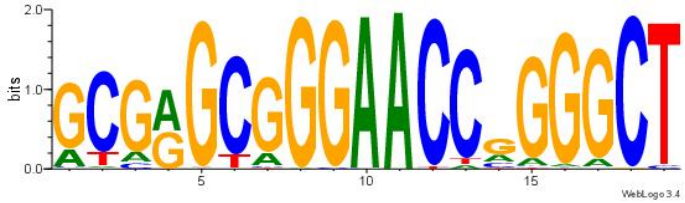

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0616212

Alignment:

```
ACTTTGGACTGTGGACTTTT
----GGGACTTGGG------
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

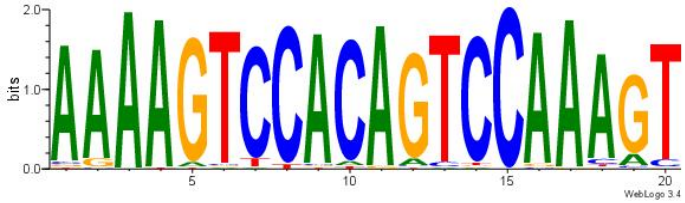

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

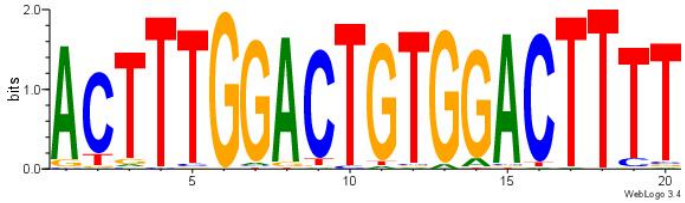

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0623184

Alignment:
CTCRAATGTCCCTT
--CCCAAGTCCC--

Original motif Consensus sequence: AAGGGACATTKGAG

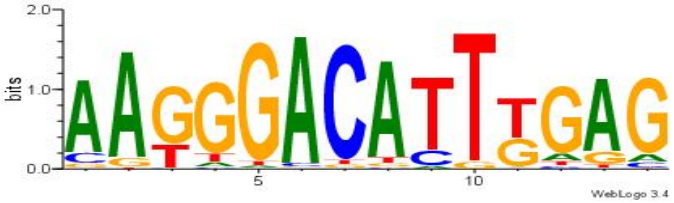

Reverse complement motif Consensus sequence: CTCRAATGTCCCTT

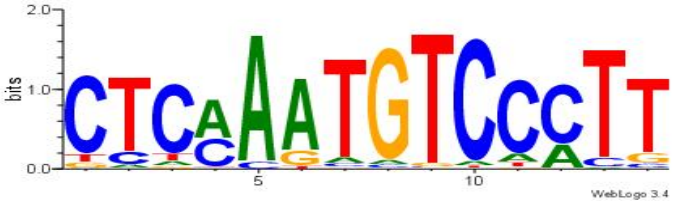

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 10
Similarity score: 0.0627019

Alignment:
TACCTGAGACTGGGTAATTT
-----GGGACTTGGG-----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

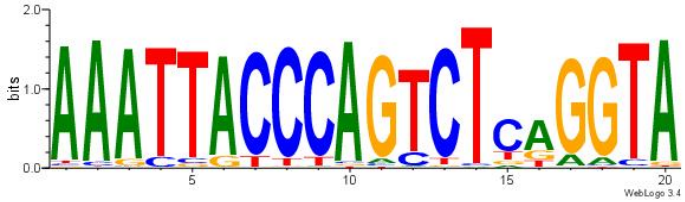

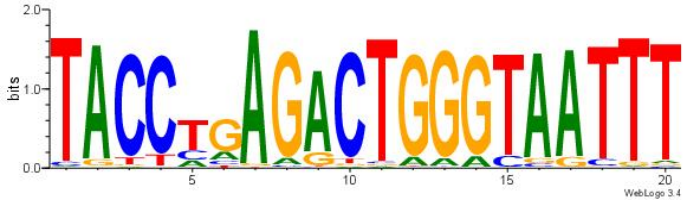

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0633478

Alignment:

```
GCAWSTGCAAAGGCCCT
------CCCAAGTCCC-
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

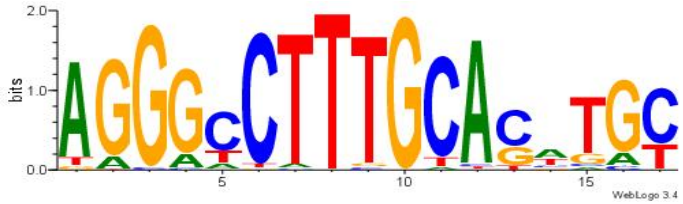

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

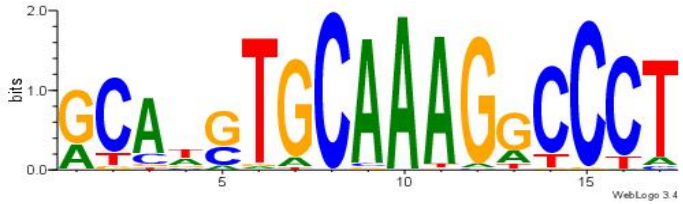

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0641718

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
---GGGACTTGGG-------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

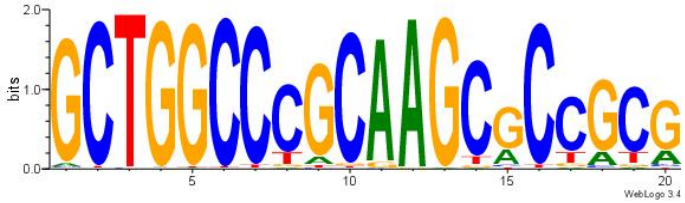

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

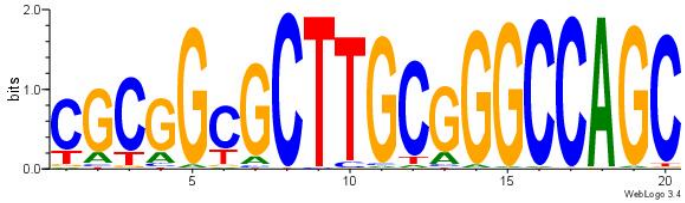

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0645347

Alignment:
GCTCTCAGGTCCA
---CCCAAGTCCC

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

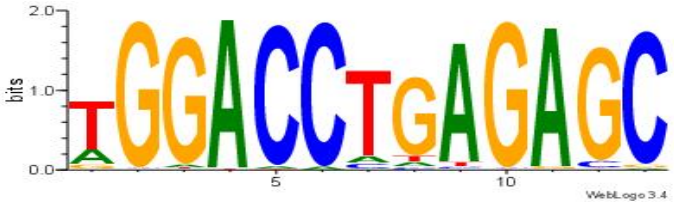

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0661321

Alignment:
TAMGACCTCAGGTCCTCAG
------CCCAAGTCCC---

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

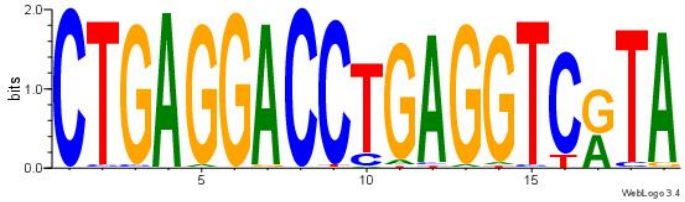

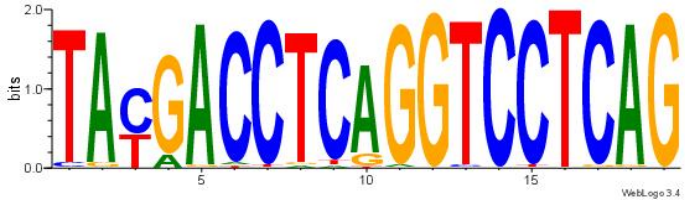

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0663599

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-------GGGACTTGGG---
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

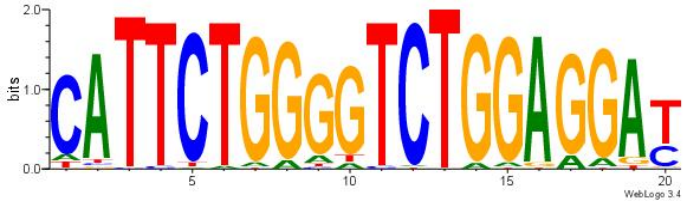

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

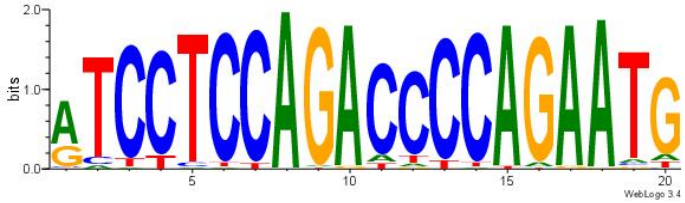

Dataset #: 1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0676626

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-------CCCAAGTCCC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

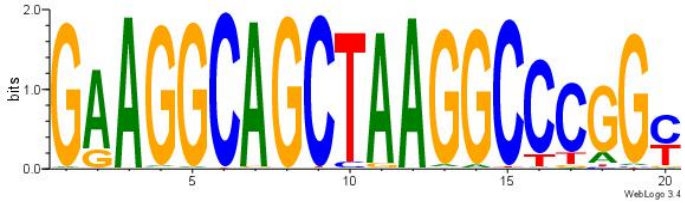

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

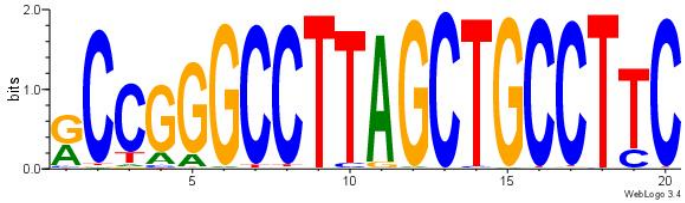

Dataset #:	1
Motif ID:	11
Motif name:	Motif 11
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.067829

Alignment:
CTCAAGGTCCA
CCCAAGTCCC-

Original motif Consensus sequence: CTCAAGGTCCA

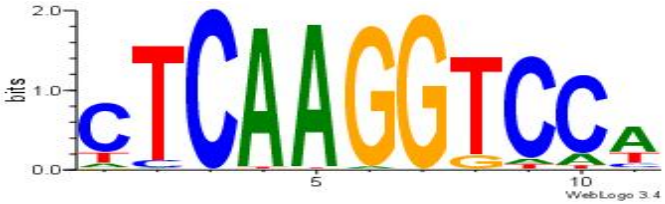

Reverse complement motif Consensus sequence: TGGACCTTGAG

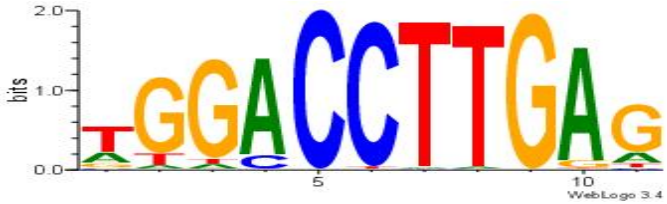

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0679119

Alignment:
AGTTCCGGGTGGGCGTGGG
GGGACTTGGG---------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

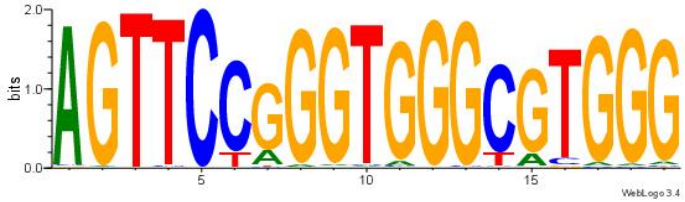

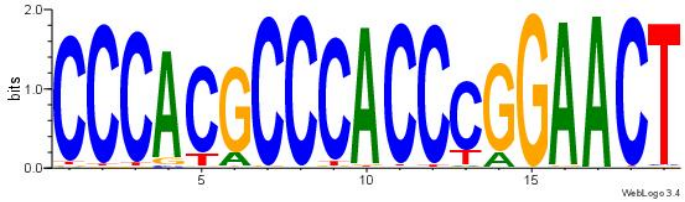

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0692337

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GGGACTTGGG----------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

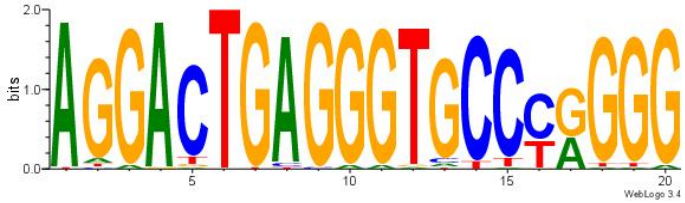

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

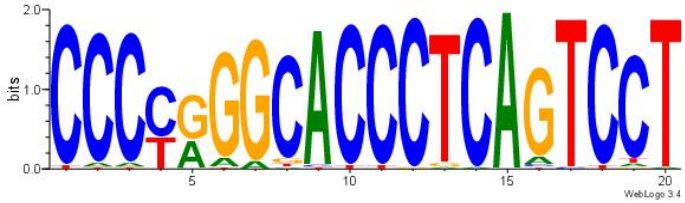

Dataset #: 1

Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0693924

Alignment:

GGGGTTGGGG

GGGACTTGGG

Original motif Consensus sequence: CCCCAACCCC

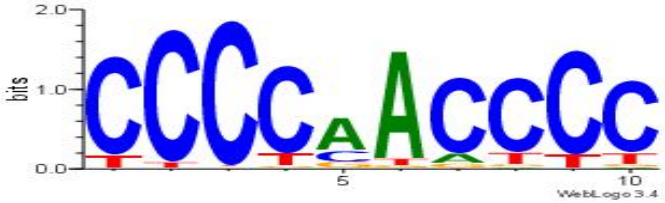

Reverse complement motif Consensus sequence: GGGGTTGGGG

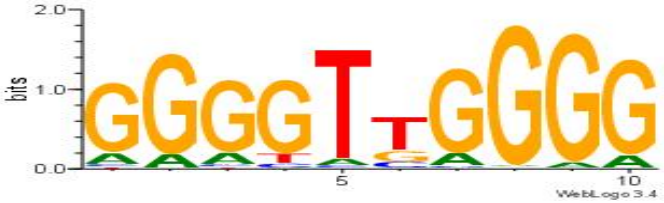

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0699442

Alignment:
AAGTCTCCCAATTACAACT
---CCCAAGTCCC------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

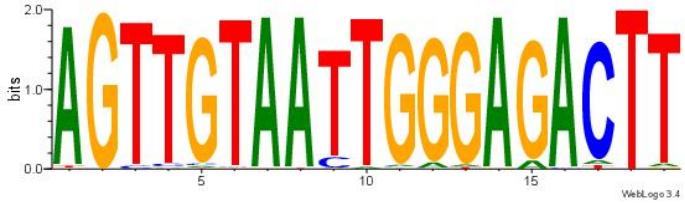

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

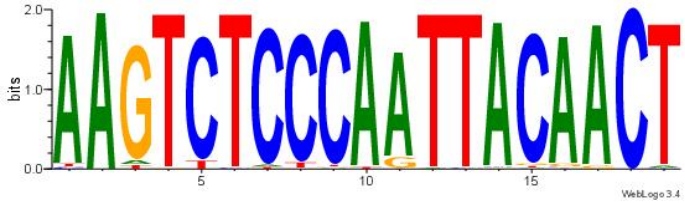

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0705039

Alignment:
GCACATGTCGCT
-CCCAAGTCCC-

Original motif Consensus sequence: AGCGACATGTGC

Reverse complement motif Consensus sequence: GCACATGTCGCT

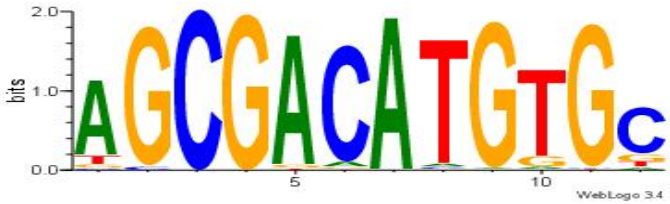

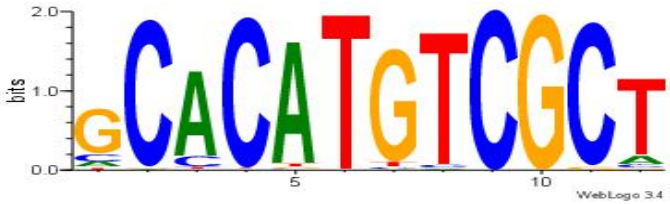

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0706887

Alignment:

```
TGTGACCTTGG
-GGGACTTGGG
```

Original motif Consensus sequence: CCAAGGTCACA

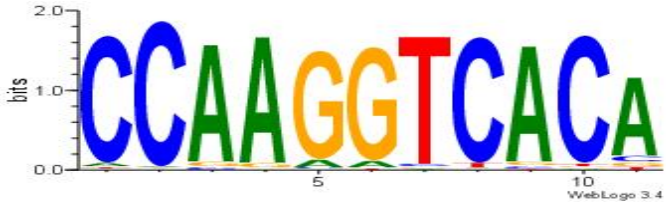

Reverse complement motif Consensus sequence: TGTGACCTTGG

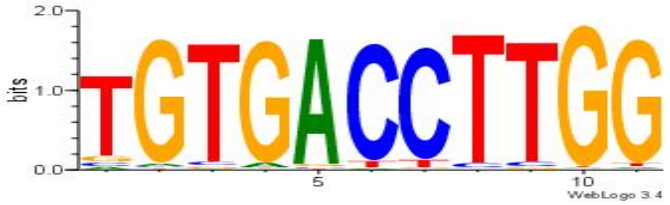

Dataset #:	1
Motif ID:	58

Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0720149

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---CCCAAGTCCC-------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

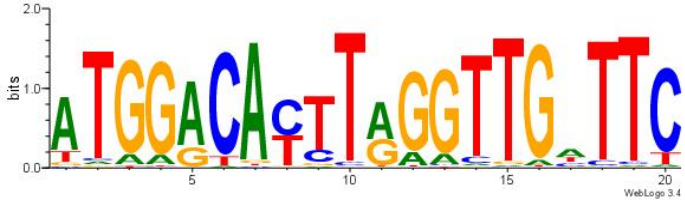

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

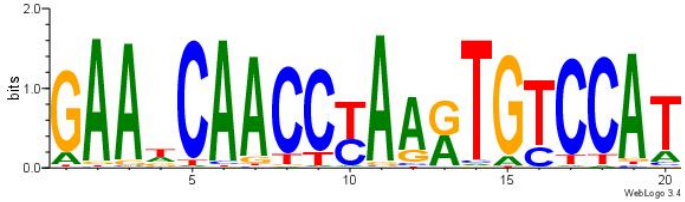

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0735089

Alignment:
KGCAACCTAGATCCCT
-CCCAAGTCCC-----

Original motif Consensus sequence: AGGGATCTAGGTTGCR

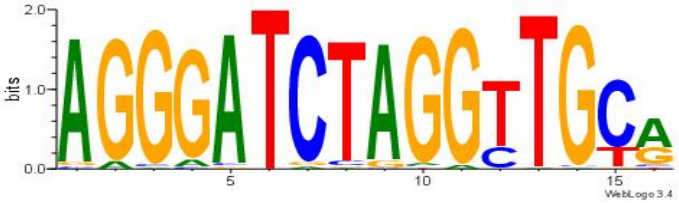

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

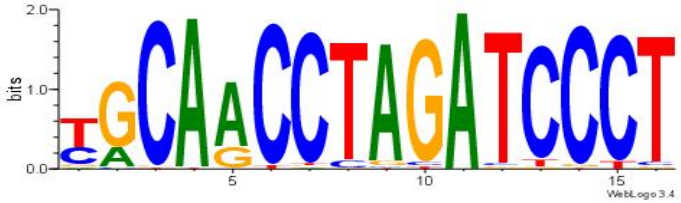

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0754922

Alignment:
CCCATGCAAGTCYRAAATCC
----CCCAAGTCCC------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

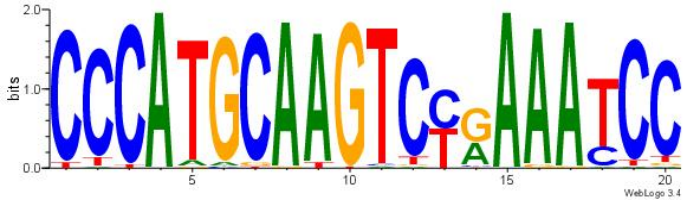

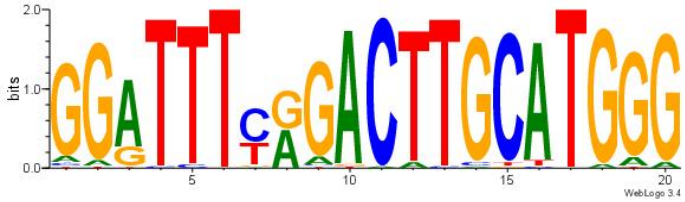

Dataset #:	1
Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0761093

Alignment:

```
TGGGTTCYTGGTC
--GGGACTTGGG-
```

Original motif Consensus sequence: GACCAMGAACCCA

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

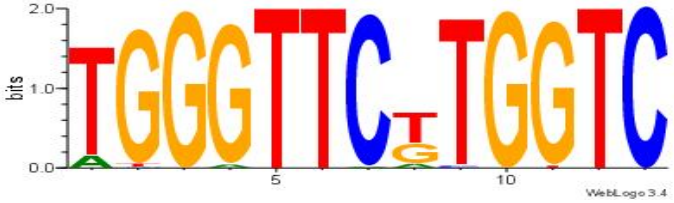

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0770656

Alignment:

```
AAGTTCTKGGKTACATGTGC
---------GGGACTTGGG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

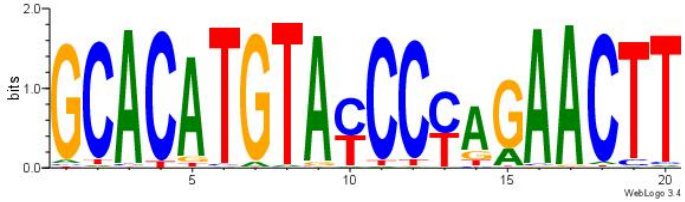

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

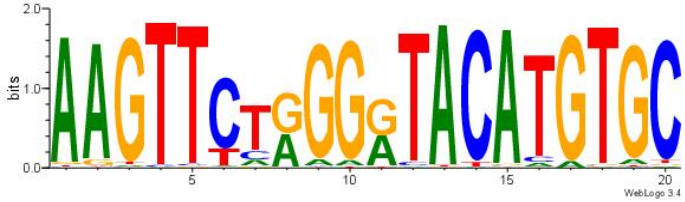

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0781411

Alignment:
TAGTGGTGATTTSTGAGAT
-----GGGACTTGGG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

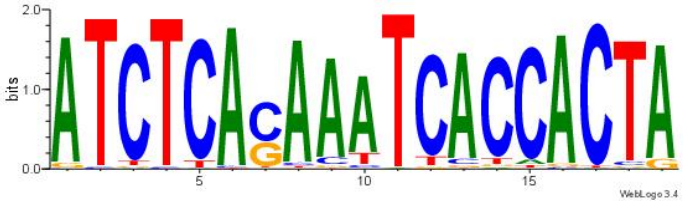

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

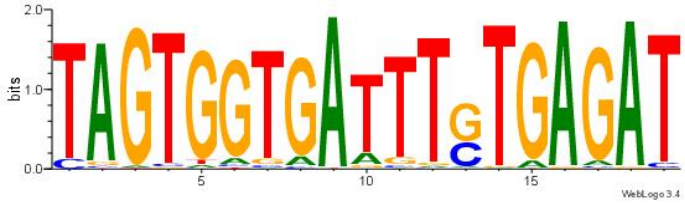

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0784139

Alignment:
AACAACASACACTGGGGCCT
-------GGGACTTGGG---

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

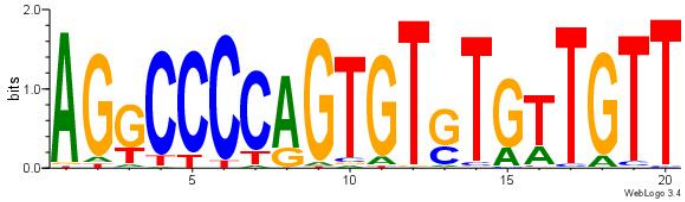

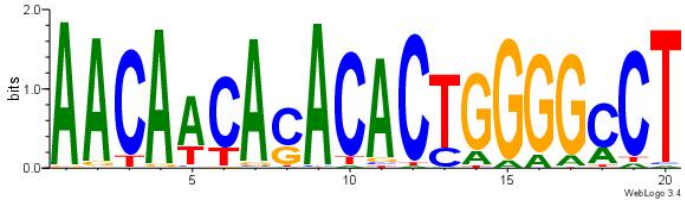

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0792153

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-----GGGACTTGGG-----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

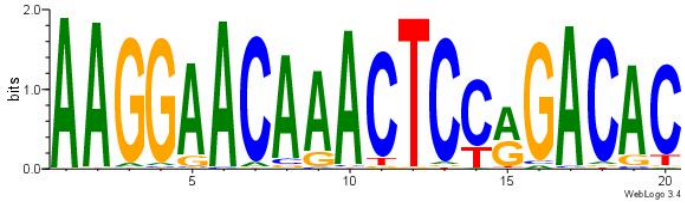

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

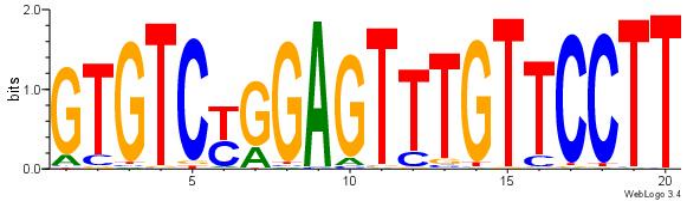

Dataset #:	1

Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0792747

Alignment:

```
TGGGGGWGGGG
-GGGACTTGGG
```

Original motif Consensus sequence: CCCCWCCCCCA

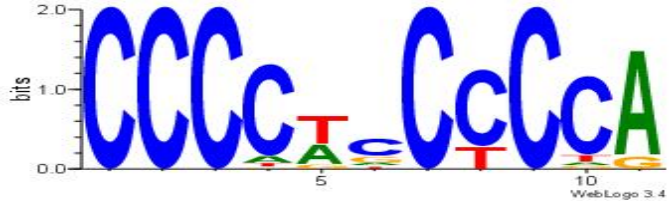

Reverse complement motif Consensus sequence: TGGGGGWGGGG

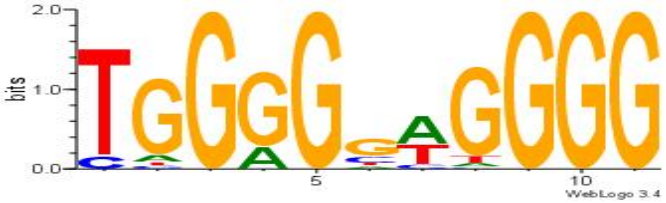

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.0798588

Alignment:
CTTGCCCAAGGTCACACAGC
------CCCAAGTCCC----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

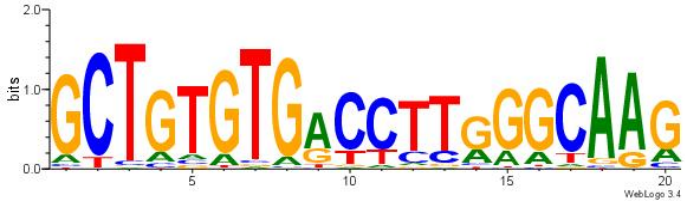

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

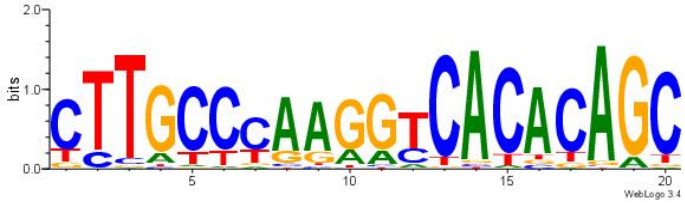

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0808285

Alignment:
ATGTAACCAAAYACCACCTG
-----CCCAAGTCCC-----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

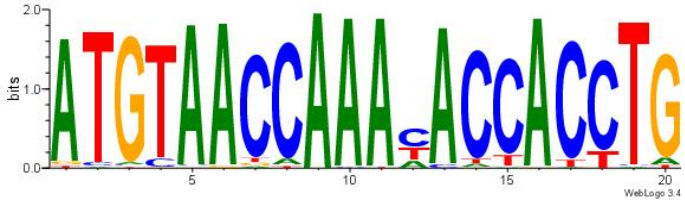

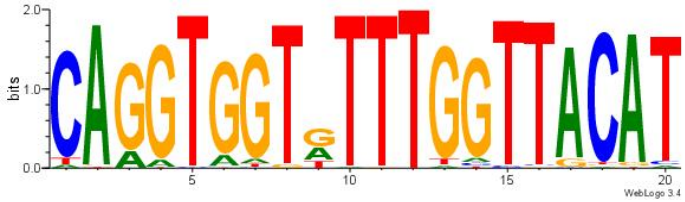

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0834981

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
GGGACTTGGG----------
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

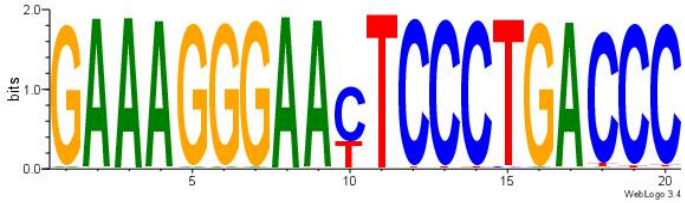

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

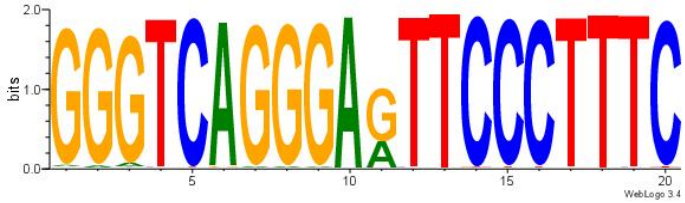

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0836701

Alignment:

```
AAGTCCAAGATCAAGGTGYY
---CCCAAGTCCC-------
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

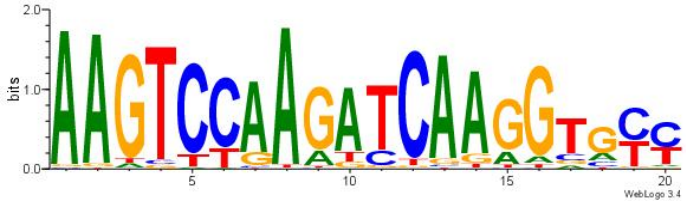

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

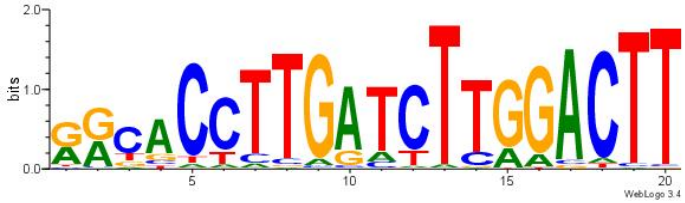

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10

Similarity score: 0.0839823

Alignment:
GCTGGCCCKGGTGCTAAGC
----CCCAAGTCCC-----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

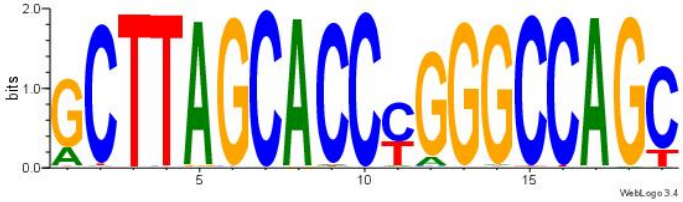

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

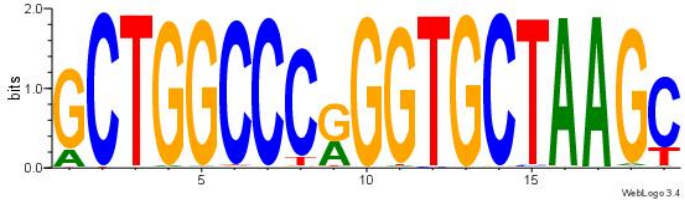

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 10
Similarity score: 0.0843026

Alignment:
CCGCGGGGCAGGGCTCG
----GGGACTTGGG---

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

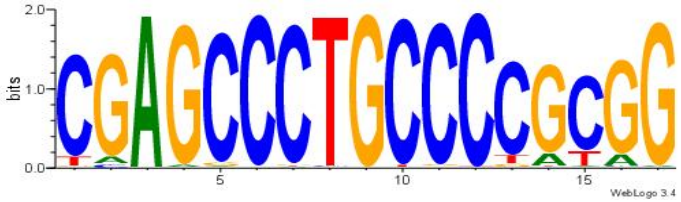

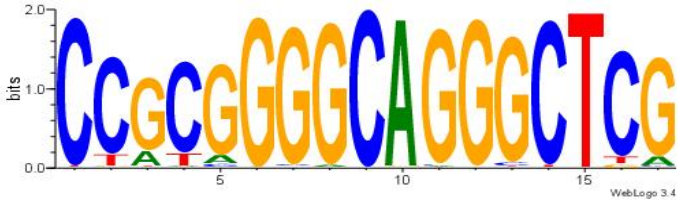

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0854137

Alignment:

```
CCGCACTCGGAGCRG
----GGGACTTGGG-
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

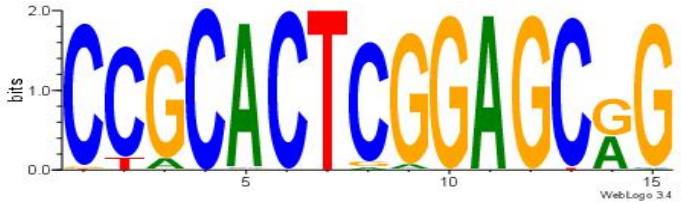

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

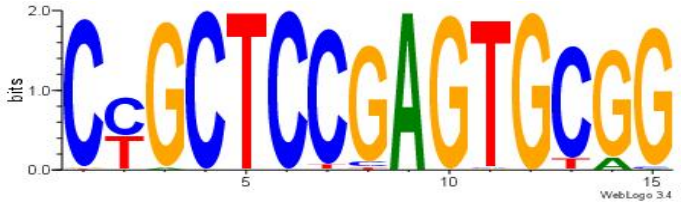

Dataset #:	1

Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.085858

Alignment:

```
CTCACCTCCTGC
CCCAAGTCCC--
```

Original motif Consensus sequence: CTCACCTCCTGC

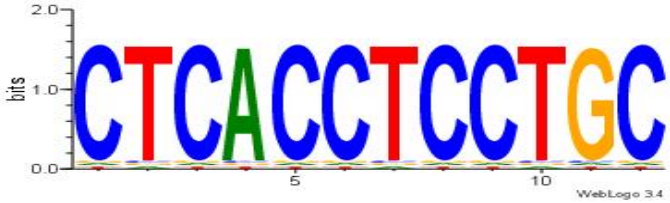

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

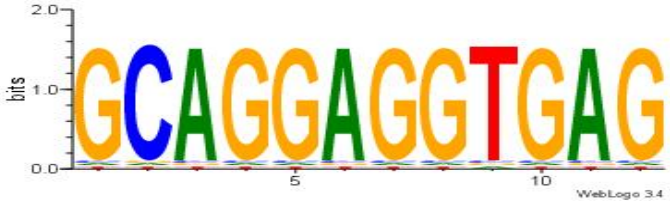

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0859031

Alignment:
GGAGCCGGCTCCCTCAGCTT
-------CCCAAGTCCC---

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

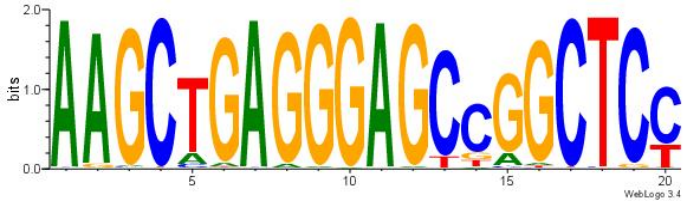

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

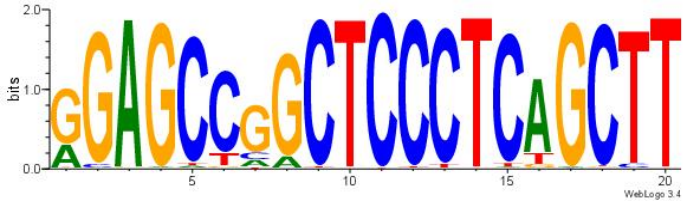

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.086087

Alignment:
CACCAGACTCAGGAGCCCAG
----------CCCAAGTCCC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

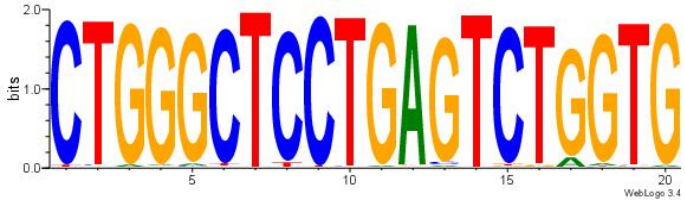

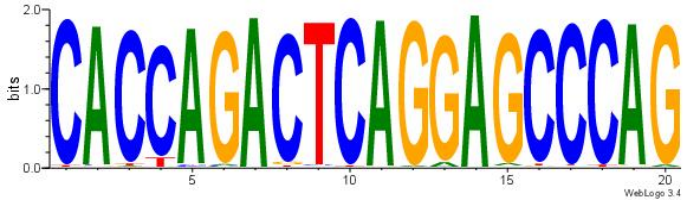

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.086411

Alignment:

```
TCCCTCCCGGACGGGGYGGC
---GGGACTTGGG-------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

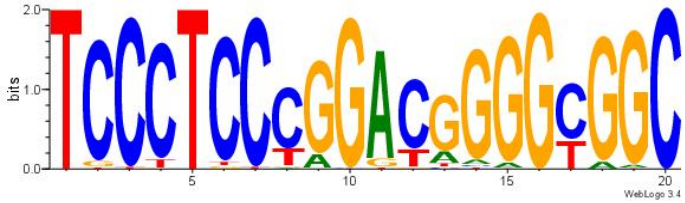

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

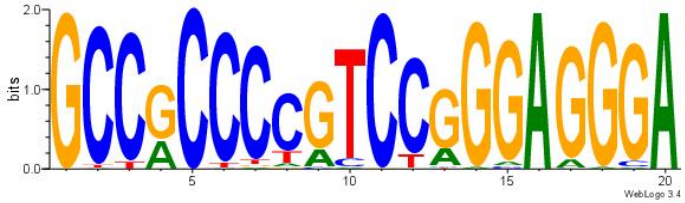

Dataset #: 1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0864559

Alignment:

```
CACTTTCCAGACTGGGCA
-------GGGACTTGGG-
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

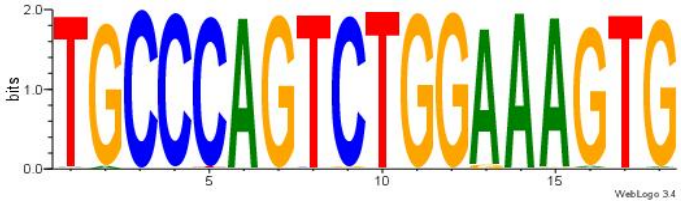

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

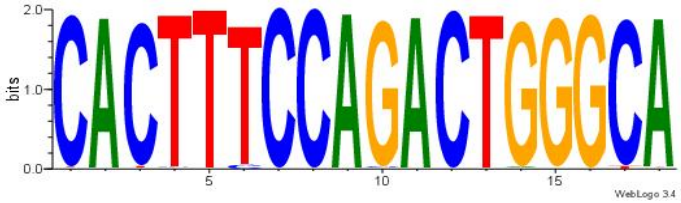

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10

Similarity score: 0.0866795

Alignment:
TMGGGAGGCTGAGGCAGGAG
----GGGACTTGGG------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

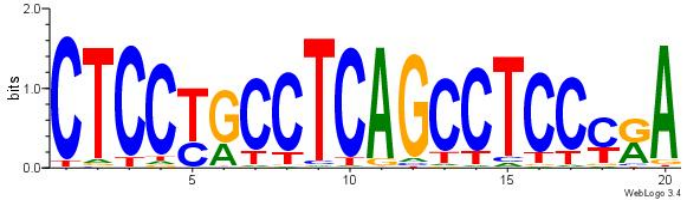

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

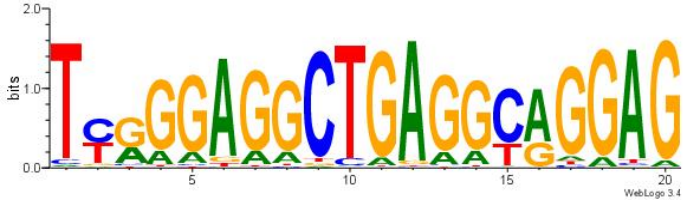

Dataset #: 1
Motif ID: 273
Motif name: Motif 273
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0866986

Alignment:
AGCCTAGGCCTAC
-CCCAAGTCCC--

Original motif Consensus sequence: AGCCTAGGCCTAC

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

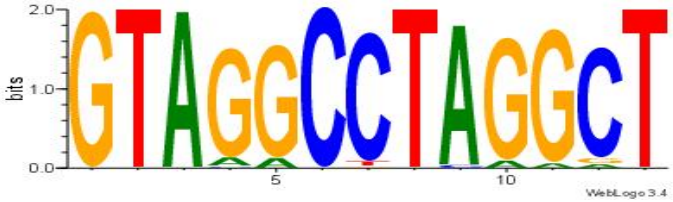

Dataset #:	1
Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0869599

Alignment:

```
MGGAAACTGAGGC
--GGGACTTGGG-
```

Original motif Consensus sequence: GCCTCAGTTTCCY

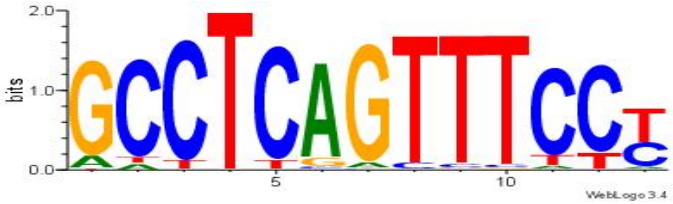

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

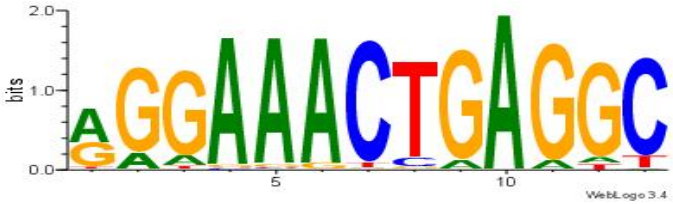

Dataset #:	1
Motif ID:	144

Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0870048

Alignment:

```
GGGCTCCCACAGTGCAGCGG
----CCCAAGTCCC------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

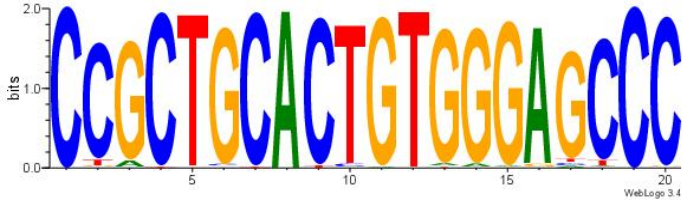

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

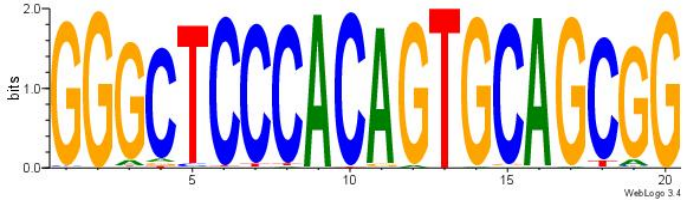

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0874318

Alignment:
CATCTGGAGCCCCA
---CCCAAGTCCC-

Original motif Consensus sequence: CATCTGGAGCCCCA

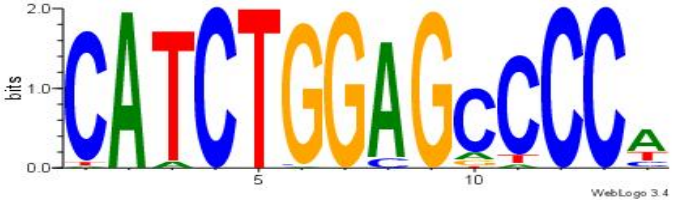

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

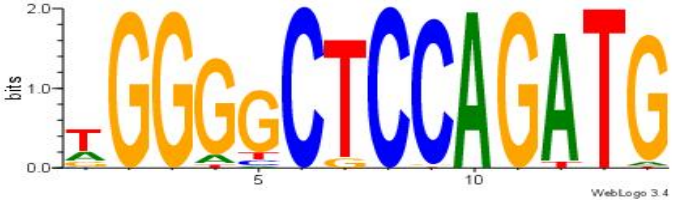

Dataset #:	1
Motif ID:	90
Motif name:	Motif 90
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0874937

Alignment:
KGCAATGGGG
GGGACTTGGG

Original motif Consensus sequence: CCCCATTGCY

Reverse complement motif Consensus sequence: KGCAATGGGG

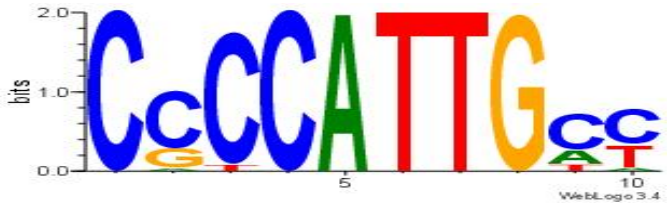

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0876827

Alignment:

```
GGSKGATCTGGCTG
--GGGACTTGGG--
```

Original motif Consensus sequence: CAGCCAGATCRSCC

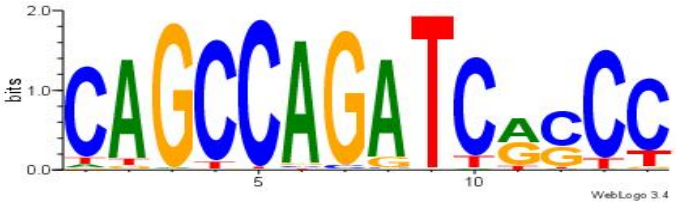

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

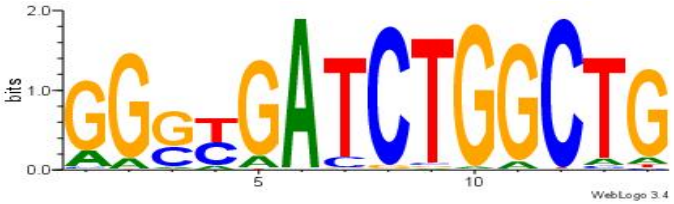

Dataset #:	1
Motif ID:	84

Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0881979

Alignment:

```
GGCACTGCTGGGGGACCCAG
GGGACTTGGG----------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

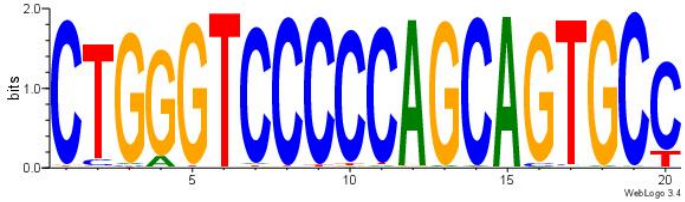

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

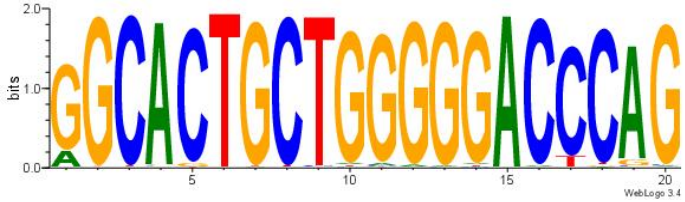

Dataset #: 1 Motif ID: 289 Motif name: Motif 289

Original motif Consensus sequence: TGATGGGTGCACCAAA

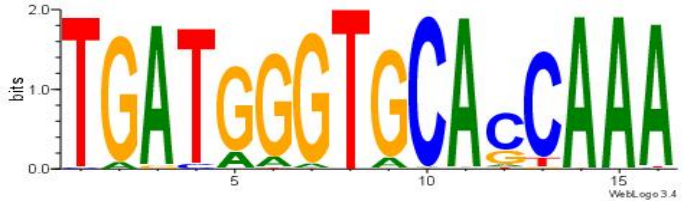

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

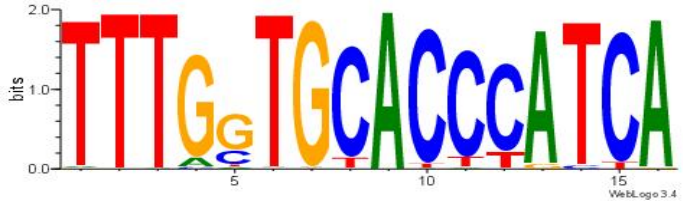

Best Matches for Motif ID 289 (Highest to Lowest)

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.100149

Alignment:

```
AGACAGTGGGYGCAGGHCA
---TGATGGGTGCACCAAA
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

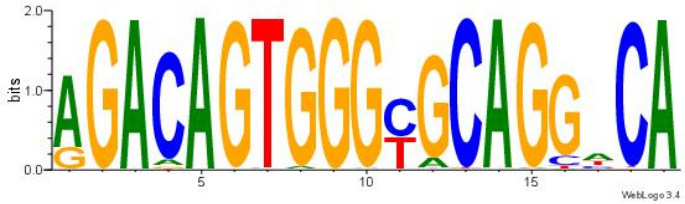

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

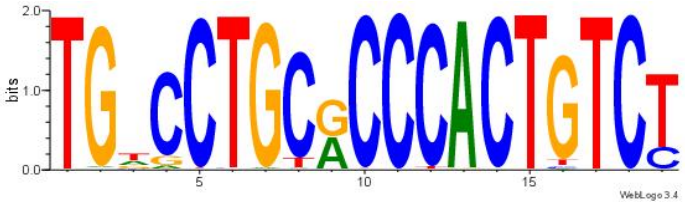

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.103791

Alignment:

```
ATTGGTGTATTTACAATCCC
----TTTGGTGCACCCATCA
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

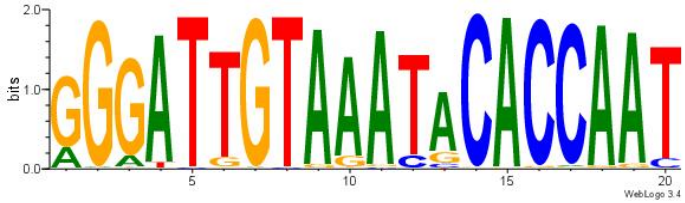

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.105577

Alignment:

```
TTGGTGGTCTCTTCACA
TGATGGGTGCACCAAA-
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

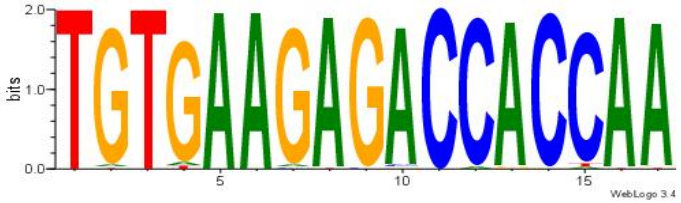

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

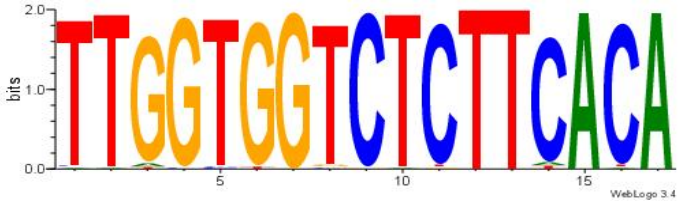

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.107792

Alignment:

```
ATCCATCCATCCATCCA
TTTGGTGCACCCATCA-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

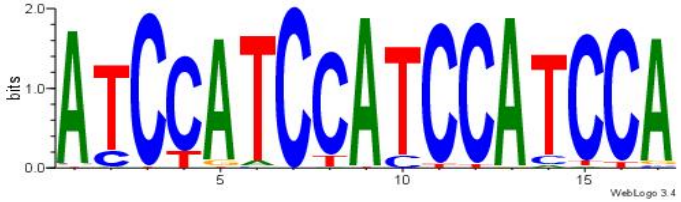

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.109184

Alignment:

```
GGCATCACGGATCCTACCAA
----TGATGGGTGCACCAAA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

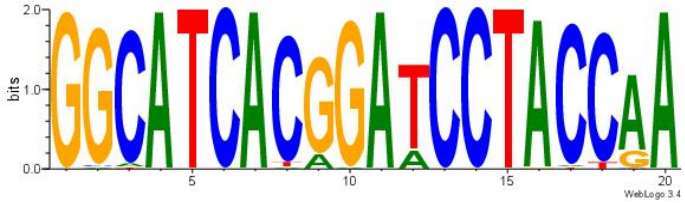

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

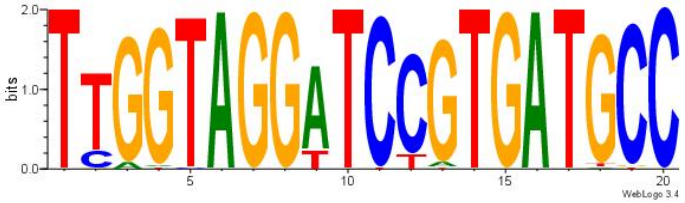

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.110206

Alignment:
VMATTTAKTGAGCACCTACT
---TTTGGTGCACCCATCA-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

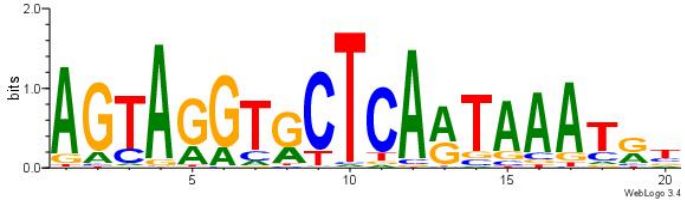

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

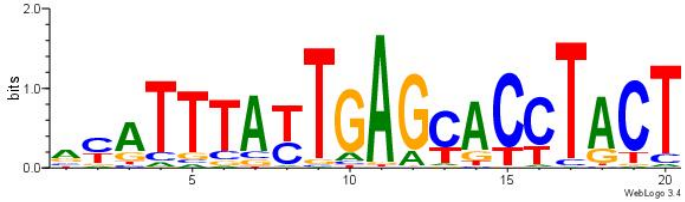

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.110391

Alignment:
TCAATGGGCTCCCAAATG
--TGATGGGTGCACCAAA

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

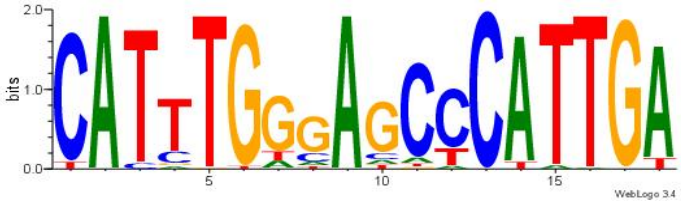

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

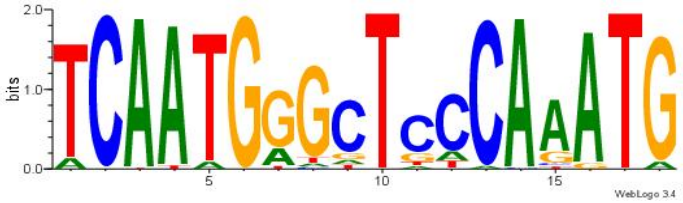

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.111393

Alignment:

```
TAGATAATAGCTCCAGCTTT
----TGATGGGTGCACCAAA
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

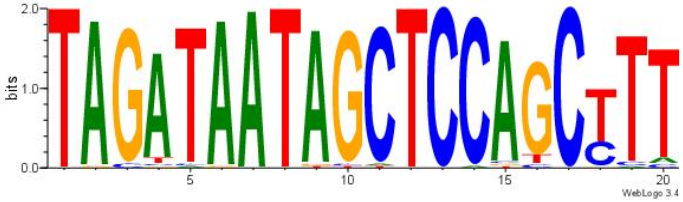

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

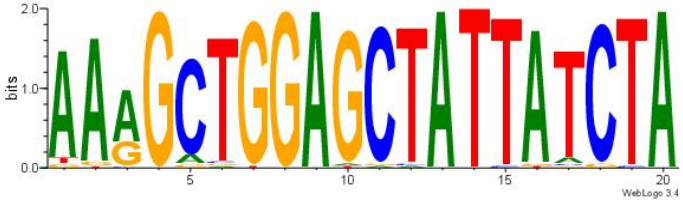

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.111659

Alignment:

```
TWTACCTATGTAACAAACCT
---TGATGGGTGCACCAAA-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

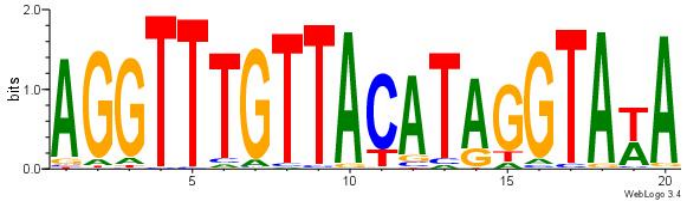

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

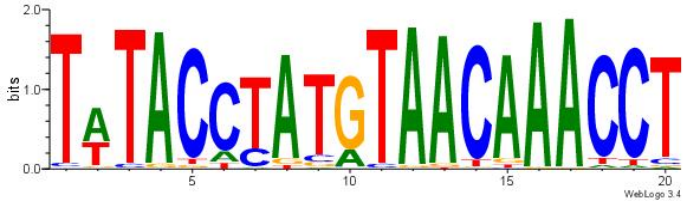

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.11366

Alignment:
GGAGGTGTGGAGGGAGAGGC
----TGATGGGTGCACCAAA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

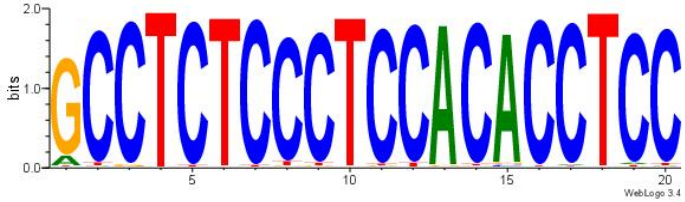

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

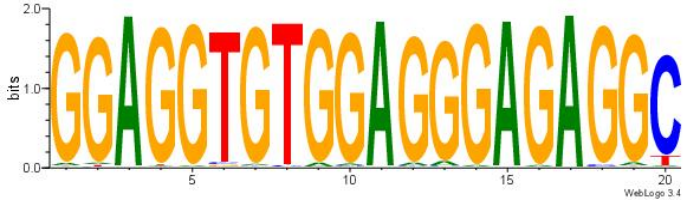

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.115003

Alignment:
CCCTGCTAGAACCTCCAA
-TTTGGTGCACCCATCA-

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

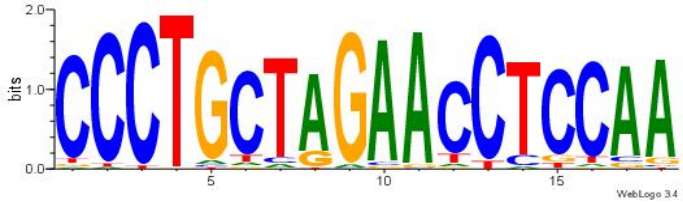

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

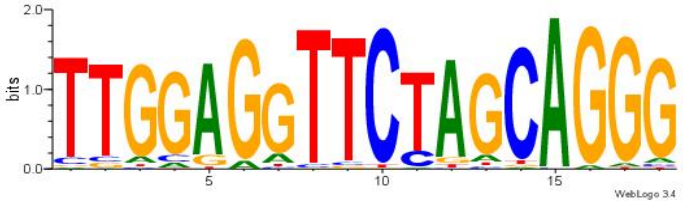

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.115054

Alignment:

```
GTKTMTATMTACCACATTTT
----TGATGGGTGCACCAAA
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

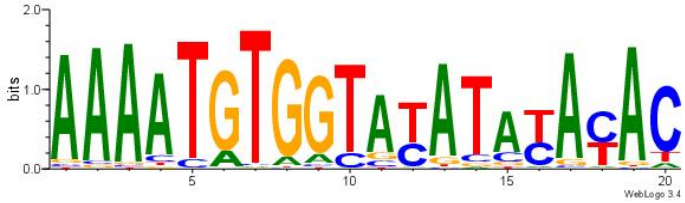

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

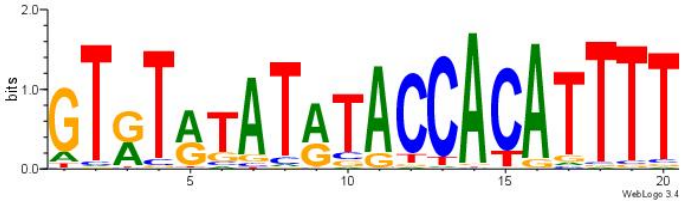

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.11546

Alignment:

```
CATTAGATTCTCATAGGA
TTTGGTGCACCCATCA--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

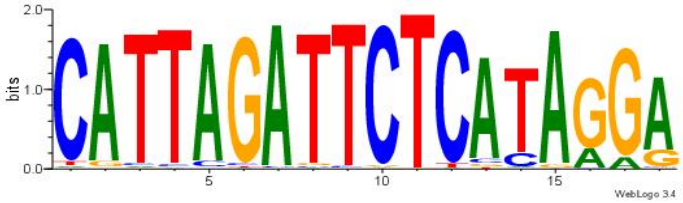

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

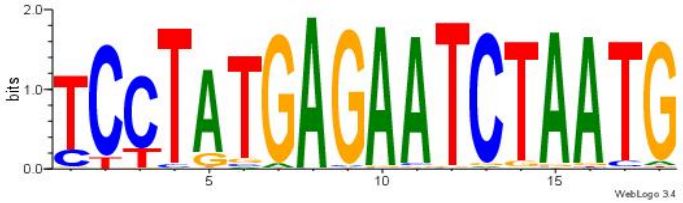

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.115479

Alignment:
CTTTCTGGGCTGGCCAAGG
-TGATGGGTGCACCAAA--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

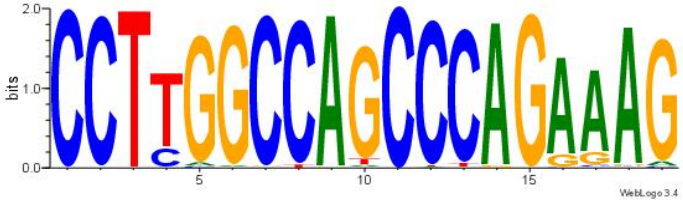

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

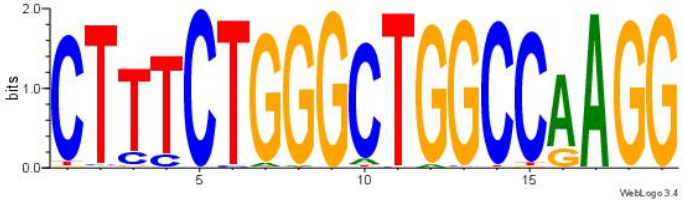

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.115562

Alignment:
GCAGCTTCACTCCTGA
TTTGGTGCACCCATCA

Original motif Consensus sequence: GCAGCTTCACTCCTGA

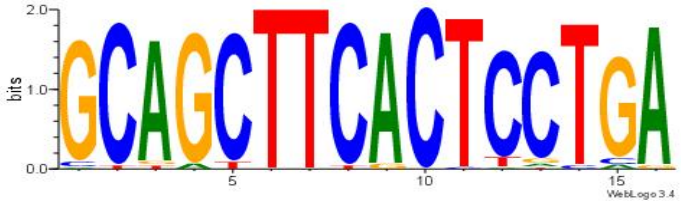

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

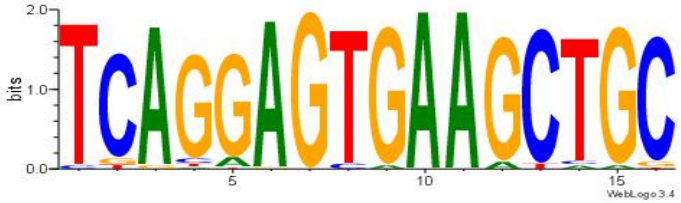

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.116542

Alignment:

```
GKCTGTACCCCCATTGTAT
TTTGGTGCACCCATCA---
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

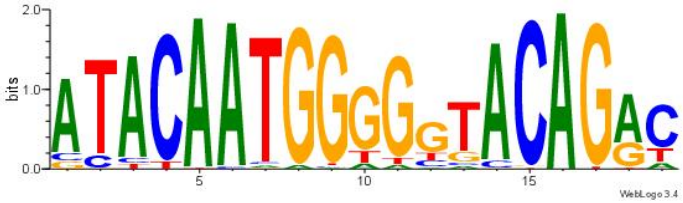

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

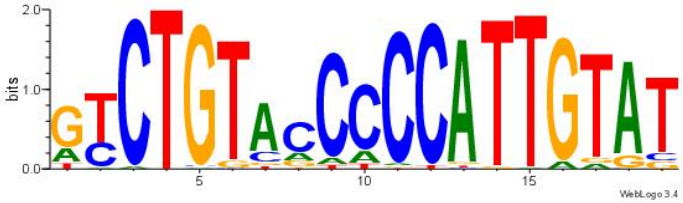

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.117726

Alignment:

```
CTCCAGKTMCATCCATGTTG
--TTTGGTGCACCCATCA--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

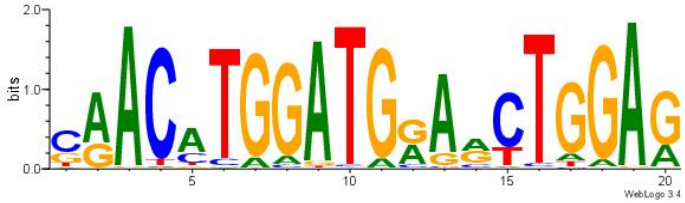

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

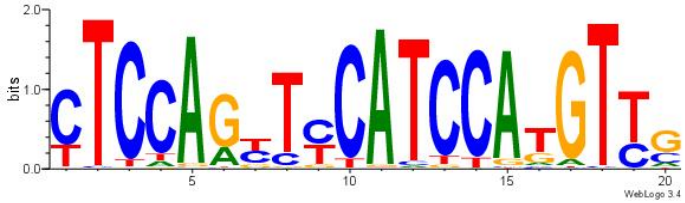

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.118908

Alignment:
GGGGGCTGACCCCCCCACC
--TTTGGTGCACCCATCA-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

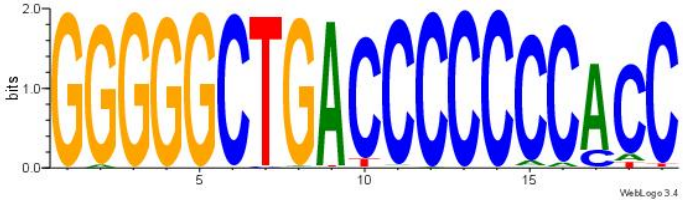

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

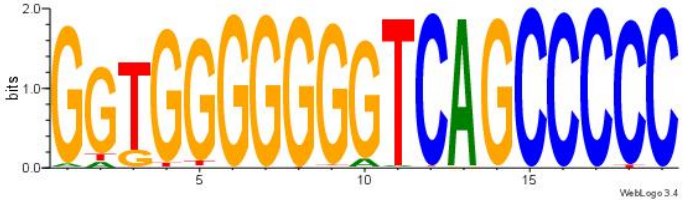

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.119088

Alignment:
GGTCAGGATCATCAATAT
--TTTGGTGCACCCATCA

Original motif Consensus sequence: ATATTGATGATCCTGACC

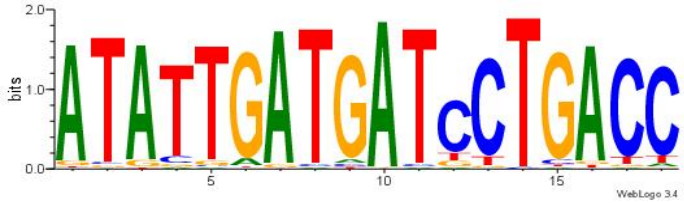

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

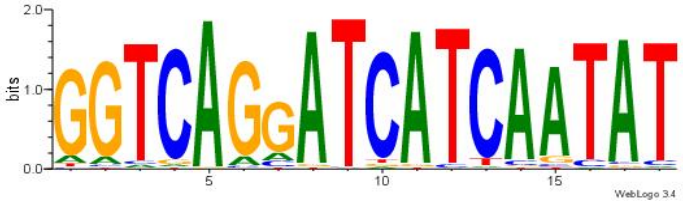

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.119192

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-TGATGGGTGCACCAAA---
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

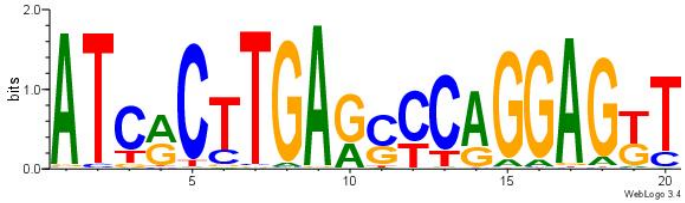

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

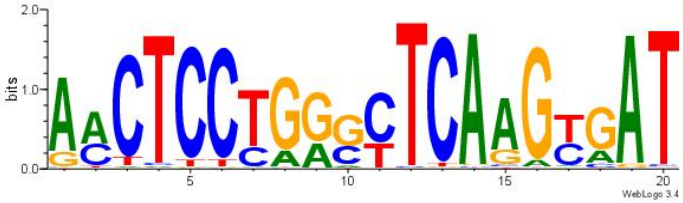

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.120729

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-TTTGGTGCACCCATCA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

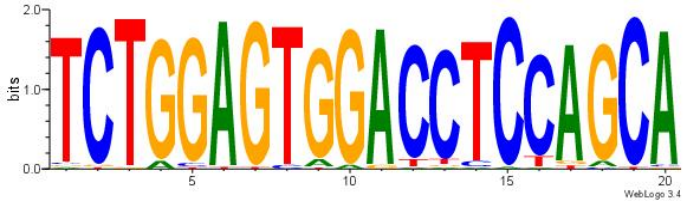

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

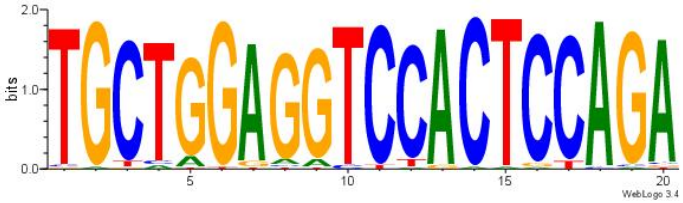

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.120776

Alignment:
AAATTAGGCCAATTAATAAC
---TTTGGTGCACCCATCA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

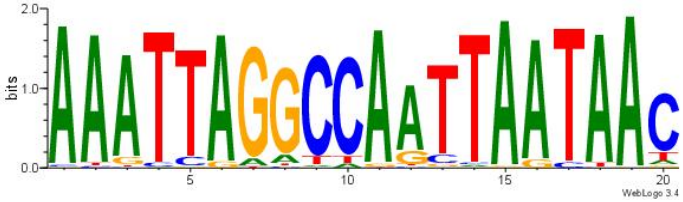

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.122196

Alignment:
AWTKKTGGTTKCCAGKGGCT
--TGATGGGTGCACCAAA--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

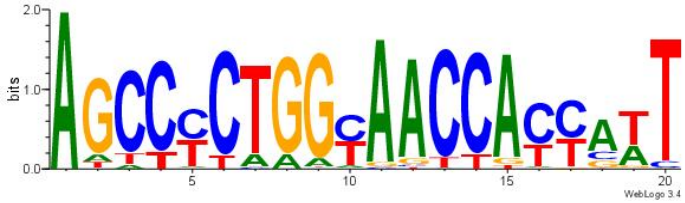

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

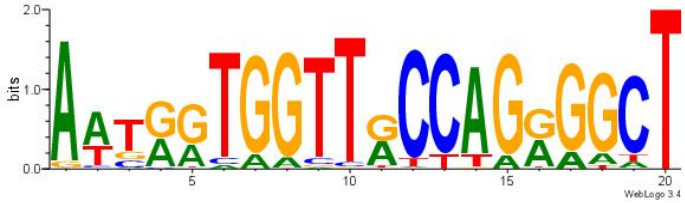

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.122963

Alignment:

```
AAAGAGAGTCAGCGAAG
TGATGGGTGCACCAAA-
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

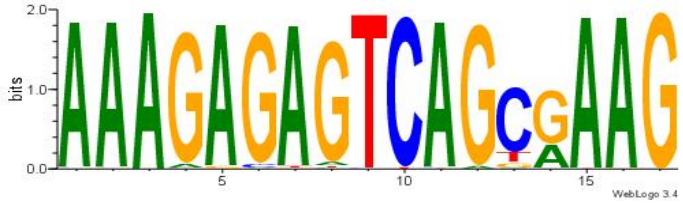

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

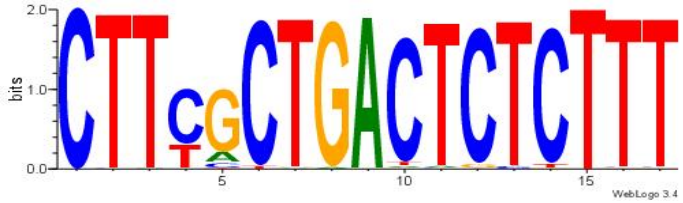

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.123883

Alignment:

```
ATCTGACAGGAGGYRGAGCT
---TGATGGGTGCACCAAA-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

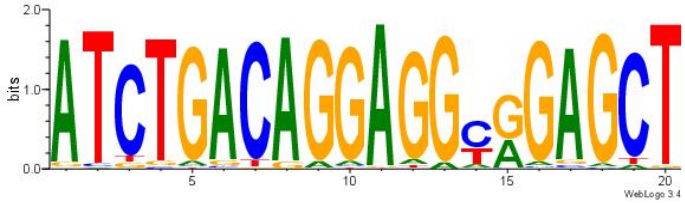

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

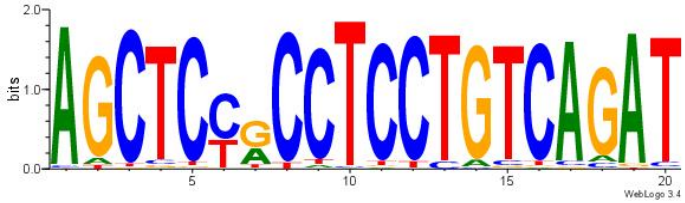

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.12482

Alignment:
CCCATGCAAGTCYRAAATCC
-TGATGGGTGCACCAAA---

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

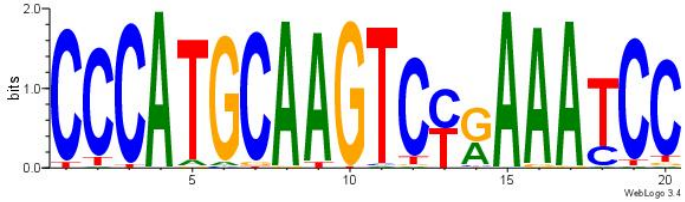

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

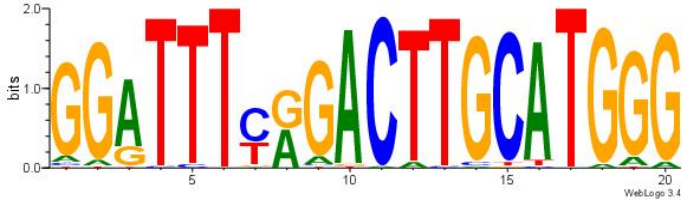

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.1266

Alignment:
CTTGCGCTTCCCRRGTGA
TTTGGTGCACCCATCA--

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

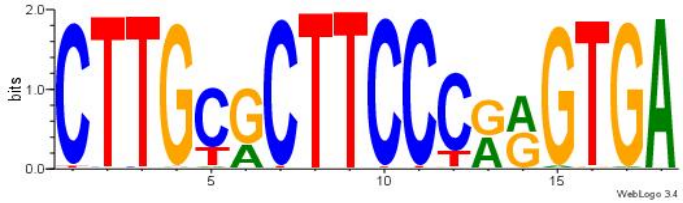

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

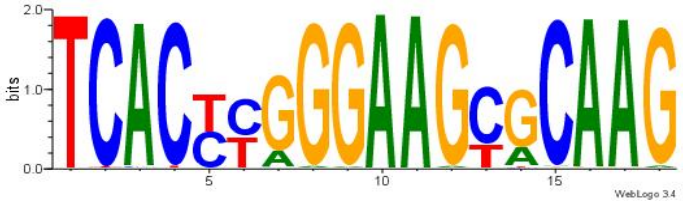

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.127237

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
TTTGGTGCACCCATCA----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

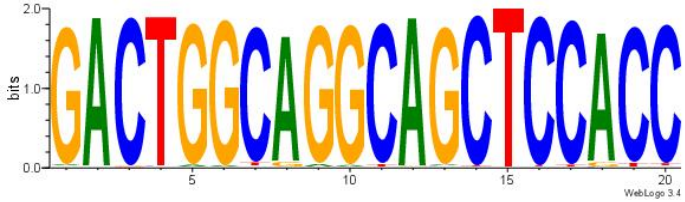

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

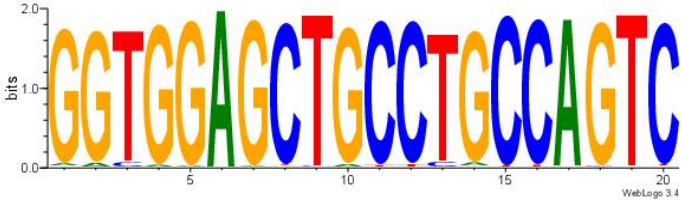

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.127361

Alignment:

```
GTTGTGAGGATTAAATGAG
--TTTGGTGCACCCATCA-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

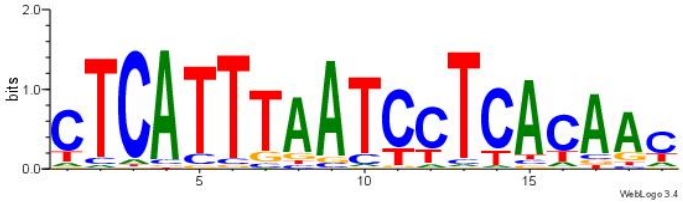

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

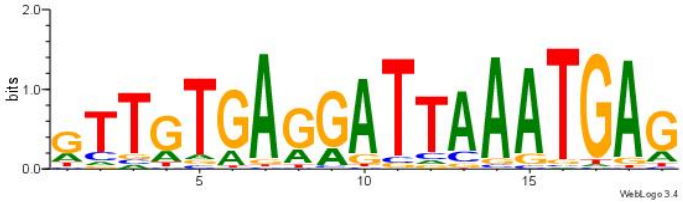

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.127695

Alignment:
MTCCTCCAGACCCCAGAATG
--TTTGGTGCACCCATCA--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

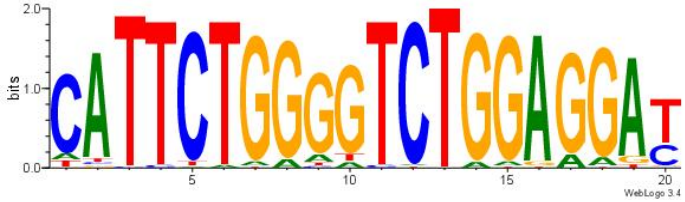

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

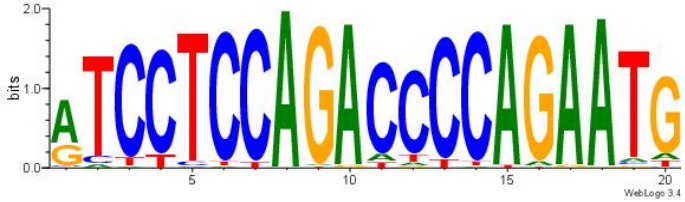

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.127748

Alignment:
CTTGGGTGGTCGATGGGAC
-TGATGGGTGCACCAAA--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

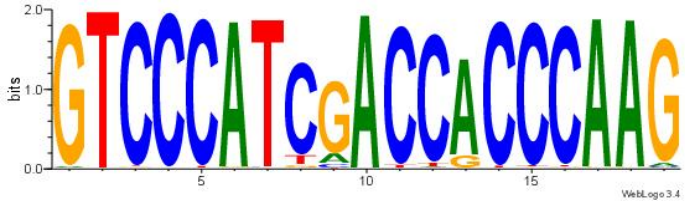

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

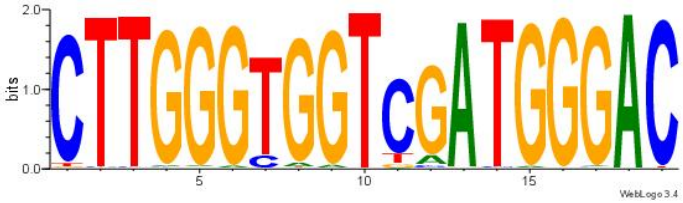

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.12831

Alignment:

```
GCACATGTAYCCYAGAACTT
TGATGGGTGCACCAAA----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

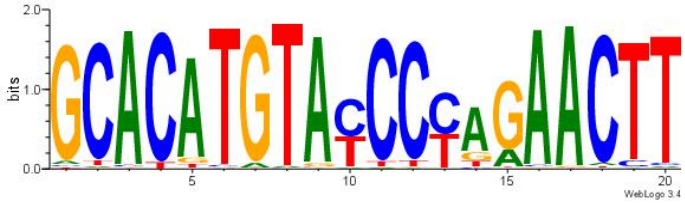

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

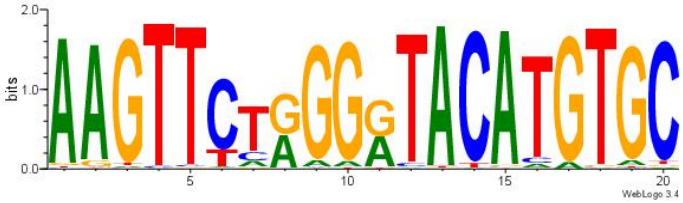

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.129369

Alignment:

```
ACTGTCTTCCACCTCCACAT
--TTTGGTGCACCCATCA--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

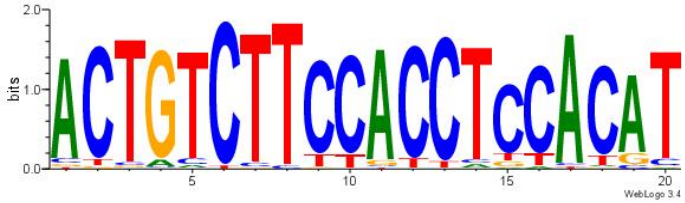

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

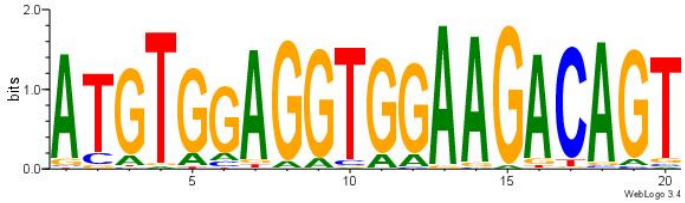

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.130877

Alignment:
GGTTTTCCATTCCTGAG
TTTGGTGCACCCATCA-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

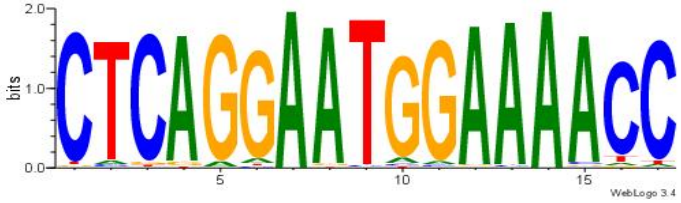

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

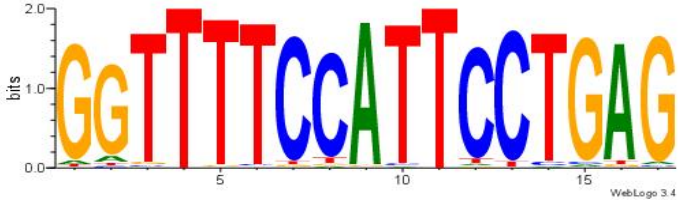

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.130936

Alignment:
TGATACCCAGGCAAACAG
TGATGGGTGCACCAAA--

Original motif Consensus sequence: TGATACCCAGGCAAACAG

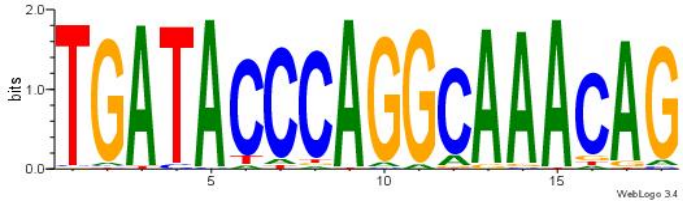

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

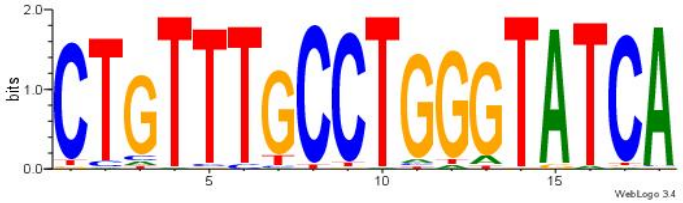

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.131134

Alignment:

```
GTTAACTGTAAAACAGCCT
-TGATGGGTGCACCAAA--
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

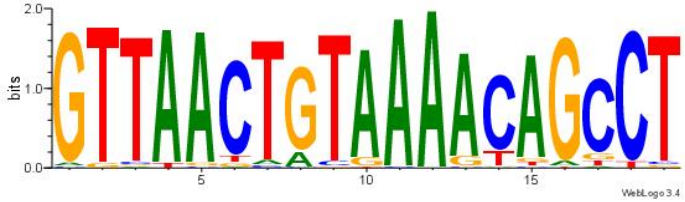

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

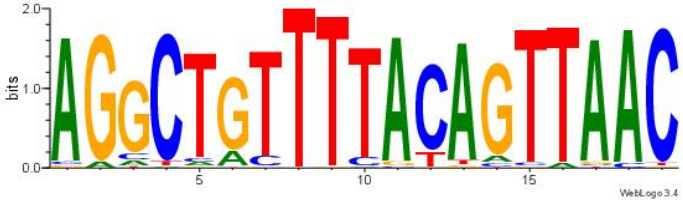

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.13115

Alignment:

```
AGAAAGGCATGTGAAAA
TGATGGGTGCACCAAA-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

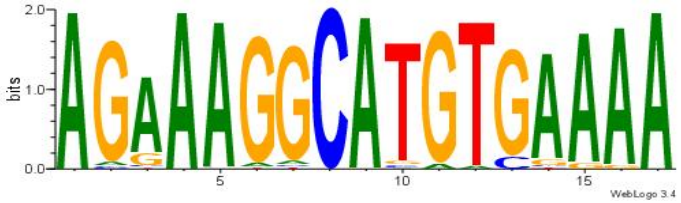

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

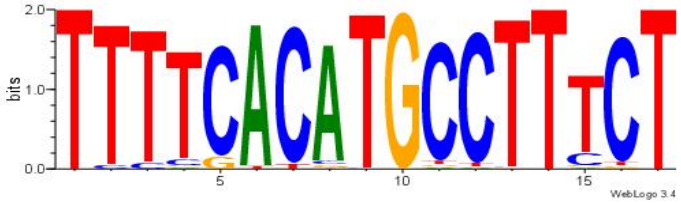

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.131441

Alignment:
CTGACTGGGAGACACCTCCC
---TTTGGTGCACCCATCA-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

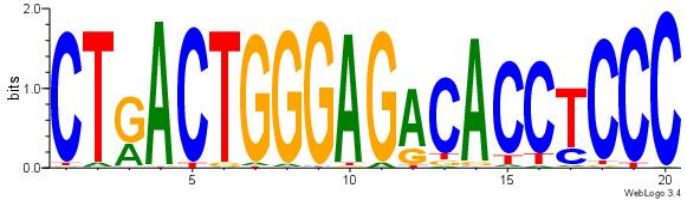

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

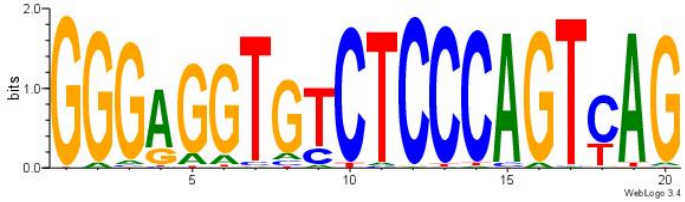

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.131537

Alignment:
AAGCAGGGCGAGGCATTGCC
-TGATGGGTGCACCAAA---

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

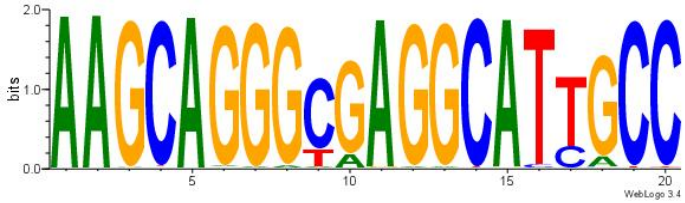

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

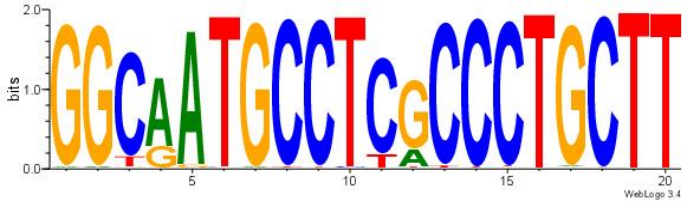

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.131763

Alignment:

```
GCCGTTTKTTAAGCCCGTY
TTTGGTGCACCCATCA---
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

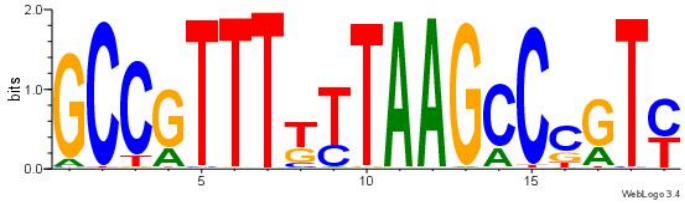

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

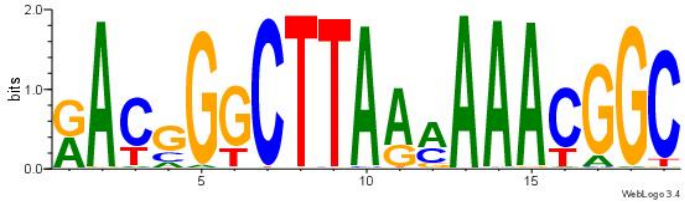

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.132162

Alignment:

```
TCCAAATGGGAGAAATTGGC
---TGATGGGTGCACCAAA-
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

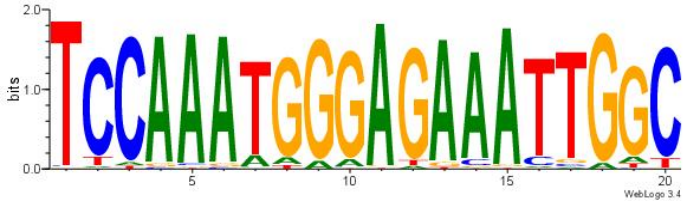

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

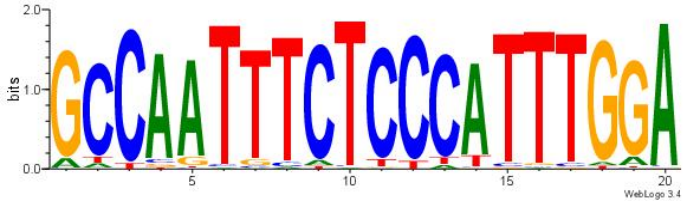

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.132198

Alignment:
AGATGCCAGCCAGAGCTCT
TGATGGGTGCACCAAA---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

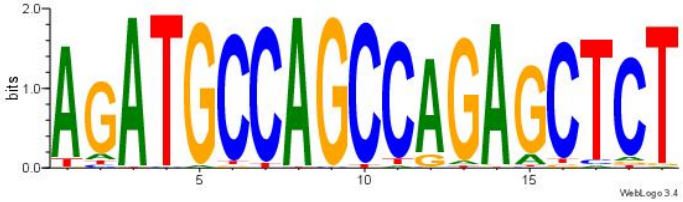

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

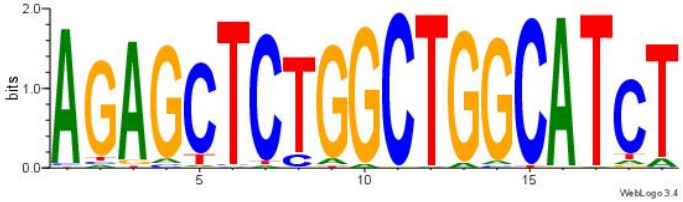

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.133062

Alignment:
GCAGCAMTATTCACAATAG
-TGATGGGTGCACCAAA--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

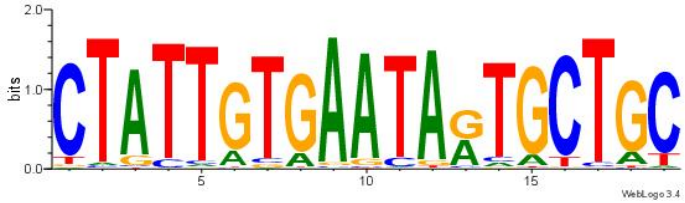

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

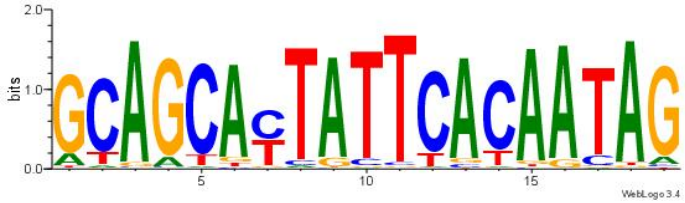

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.133131

Alignment:

```
CRTGAGCCACYGYRCCYGGC
----TTTGGTGCACCCATCA
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

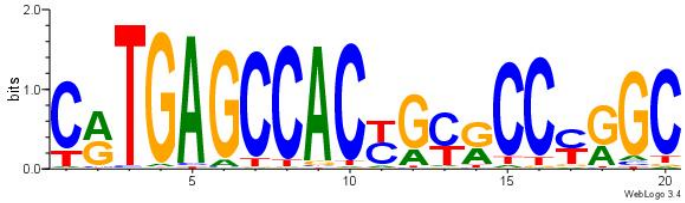

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

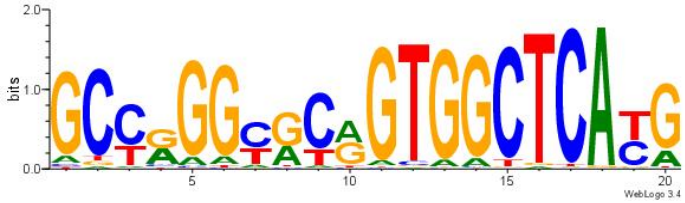

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.133517

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
TTTGGTGCACCCATCA----
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

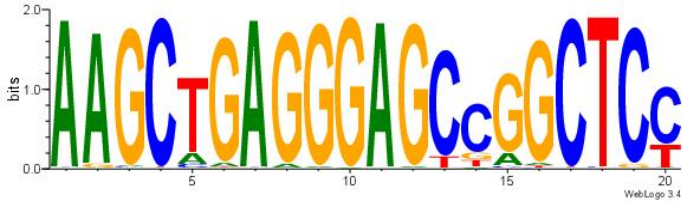

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

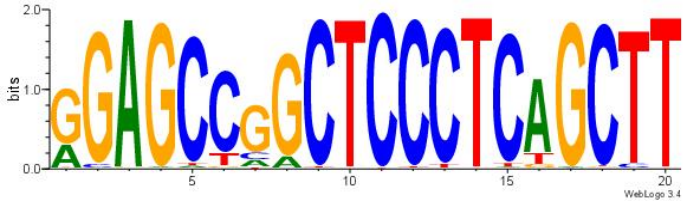

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.134239

Alignment:
AAGACGGGTGATTTCTG
TGATGGGTGCACCAAA-

Original motif Consensus sequence: CAGAAATCACCCGTCTT

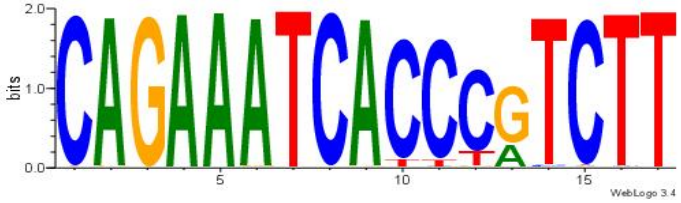

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

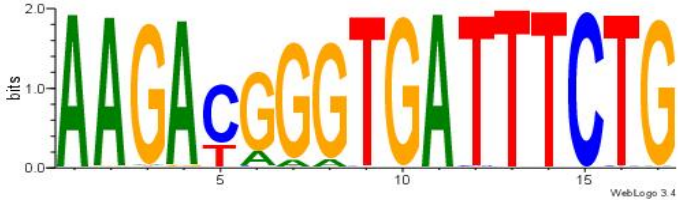

Dataset #: 1
Motif ID: 78
Motif name: Motif 78
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.134316

Alignment:
CGAGCCCTGCCCCGCGG
TGATGGGTGCACCAAA-

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

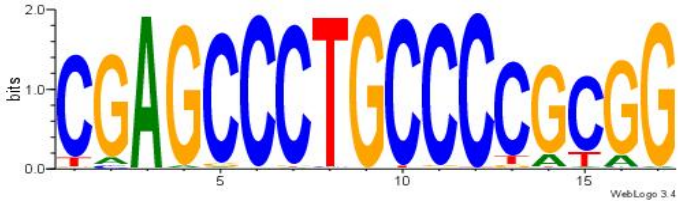

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

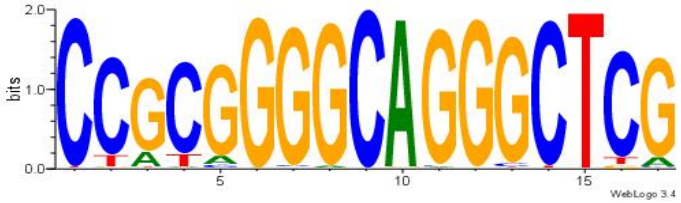

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.134536

Alignment:

```
ATGTAACCAAAYACCACCTG
TTTGGTGCACCCATCA----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

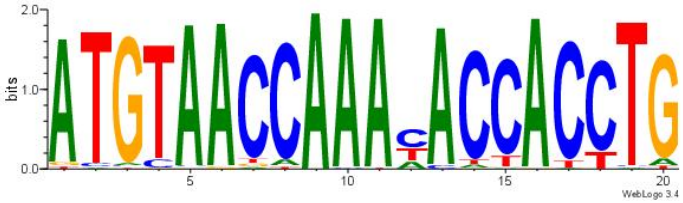

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

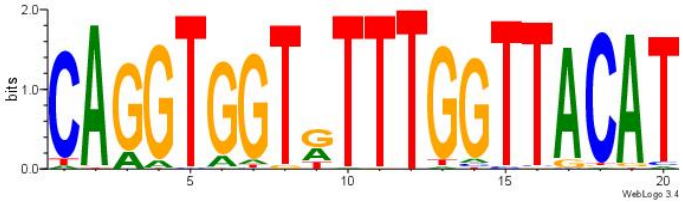

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.134958

Alignment:

```
HAGTGGKATTGCTGGATCAT
---TTTGGTGCACCCATCA-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

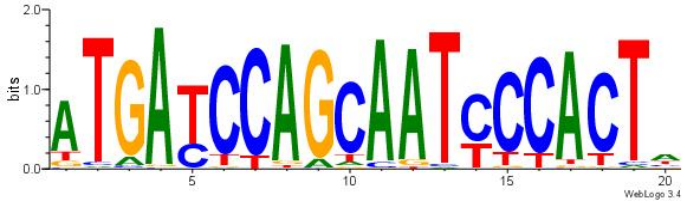

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

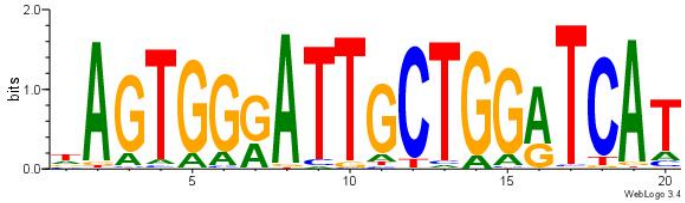

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.136032

Alignment:
AGTTCCGGGTGGGCGTGGG
--TGATGGGTGCACCAAA-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

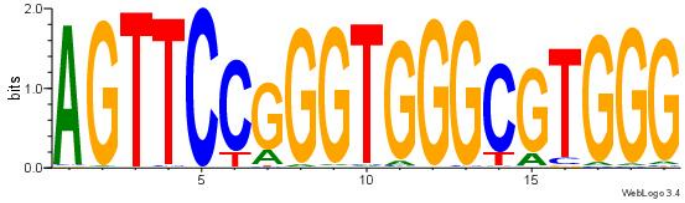

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

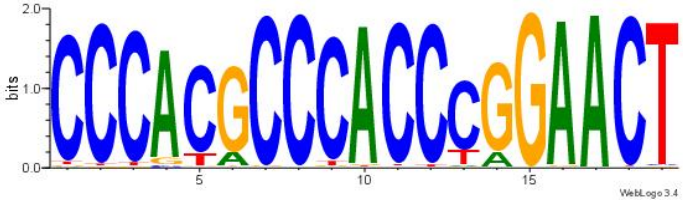

Dataset #: 1 Motif ID: 290 Motif name: Motif 290

Original motif Consensus sequence: TGATACCCAGGCAAACAG

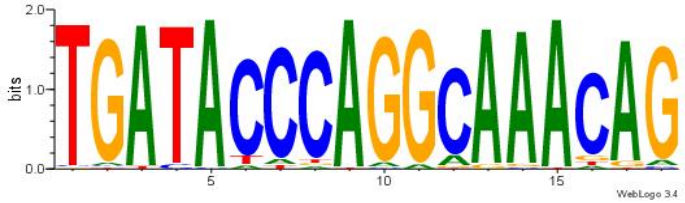

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

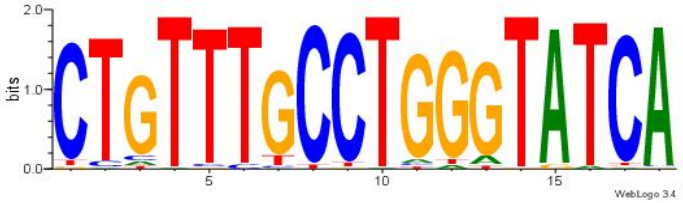

Best Matches for Motif ID 290 (Highest to Lowest)

Dataset #: 1
Motif ID: 170
Motif name: Motif 170

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0975901

Alignment:

```
AATCAACCCTGGYRATCAAT
-TGATACCCAGGCAAACAG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

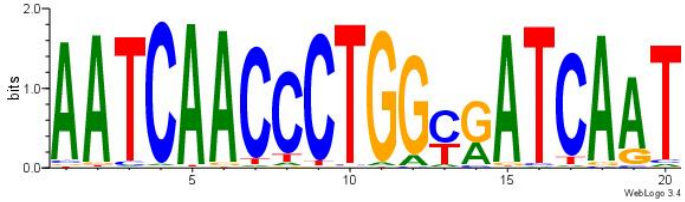

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

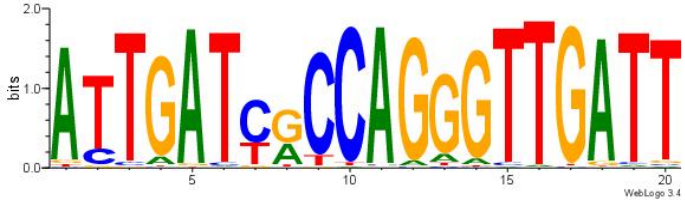

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0999158

Alignment:
CTGGGCTCCTGAGTCTGGTG
--CTGTTTGCCTGGGTATCA

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

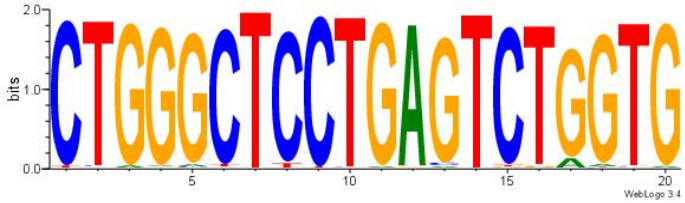

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

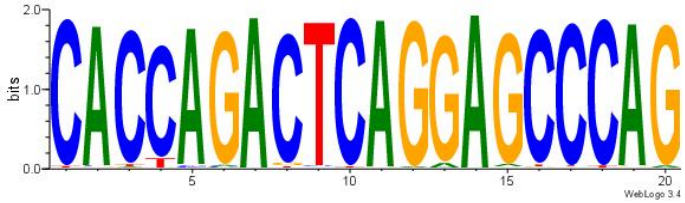

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.107254

Alignment:
GCTGTGTGACCTTGGGCAAG
-CTGTTTGCCTGGGTATCA-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

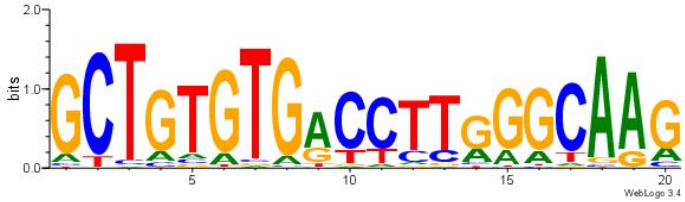

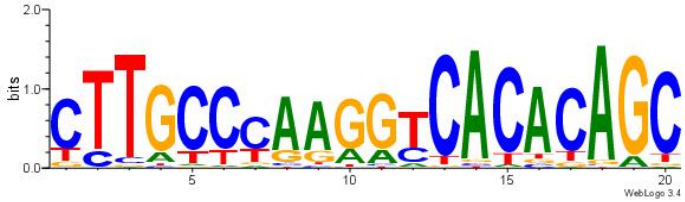

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.10792

Alignment:

```
ACACACAYACACACACACA
TGATACCCAGGCAAACAG-
```

Original motif Consensus sequence: ACACACAYACACACACACA

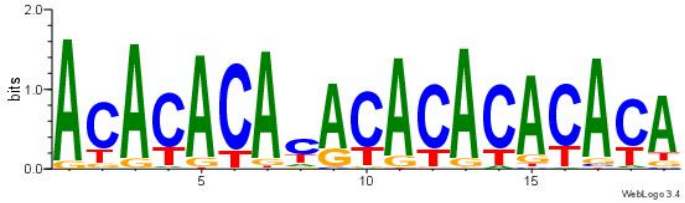

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

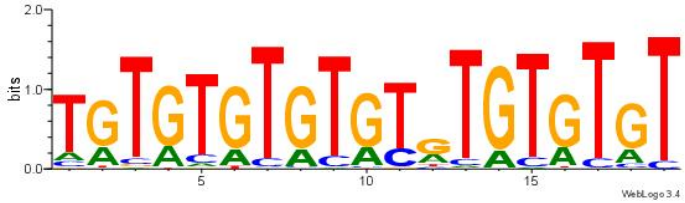

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.112251

Alignment:

```
TACCTGAGACTGGGTAATTT
-CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

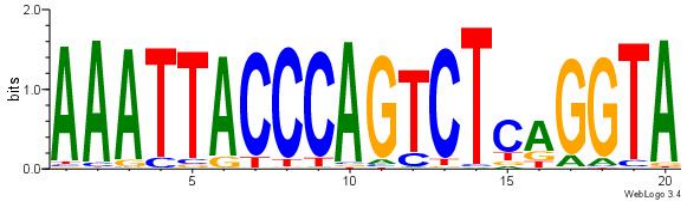

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

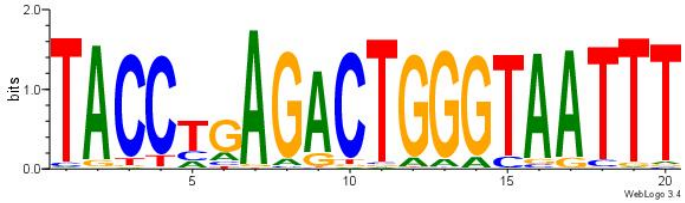

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.113935

Alignment:
ACTGTCTTCCACCTCCACAT
-CTGTTTGCCTGGGTATCA-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

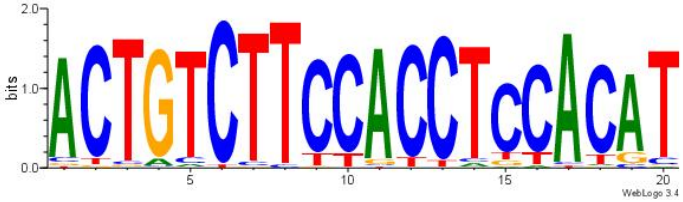

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

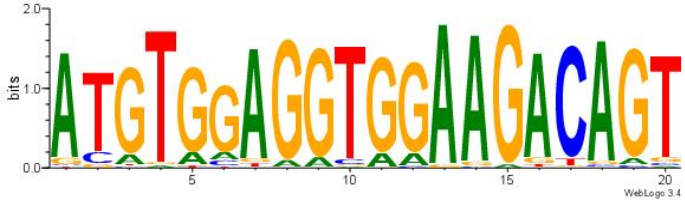

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.115742

Alignment:
ACCKTCGCGGTGAGTGTTAC
-CTGTTTGCCTGGGTATCA-

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

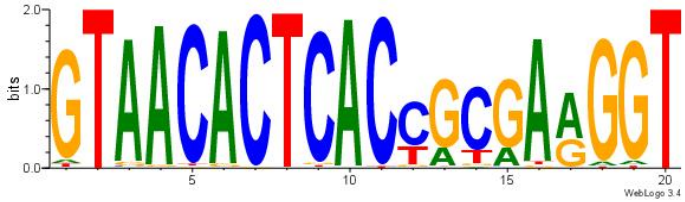

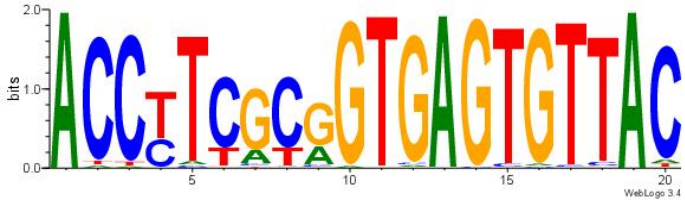

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.116118

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
-CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

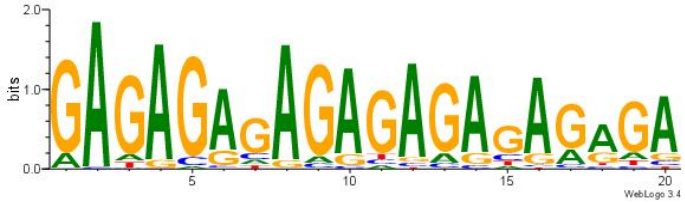

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

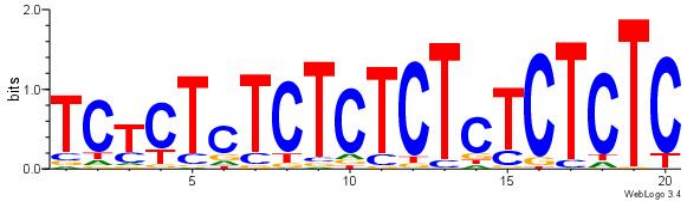

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.118433

Alignment:

```
GAATACCTCCTGAAGGACCT
--TGATACCCAGGCAAACAG
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

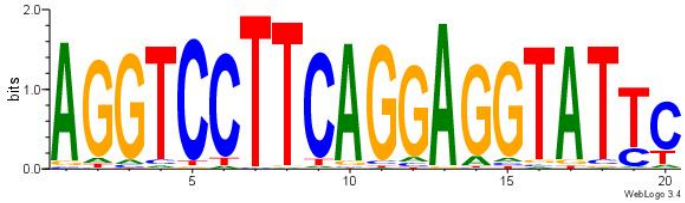

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

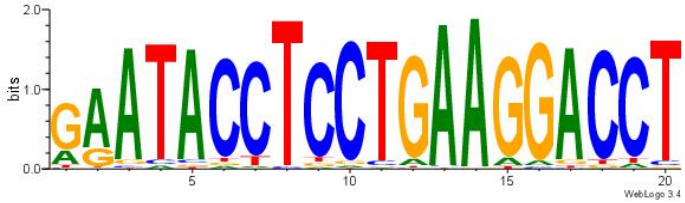

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.119021

Alignment:
AGAAATCGAGCRCAGCGCCG
TGATACCCAGGCAAACAG--

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

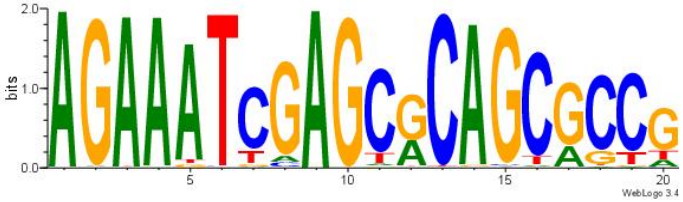

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

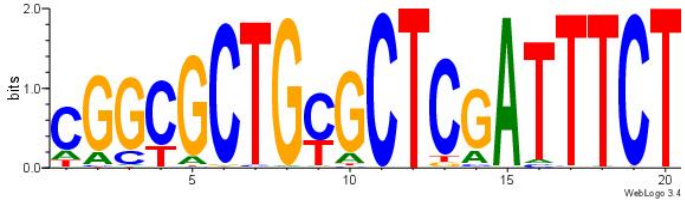

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.119165

Alignment:
MGTCTMKCTCTGTKGCCCAG
TGATACCCAGGCAAACAG--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

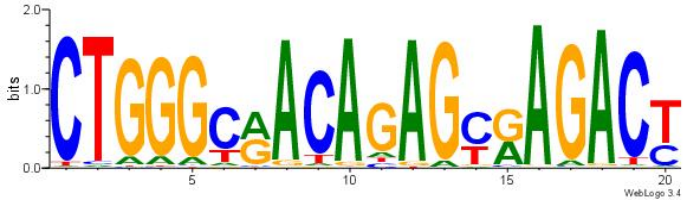

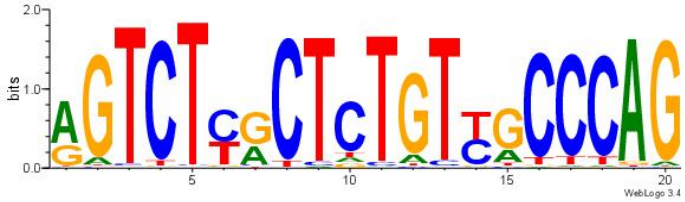

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.119611

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

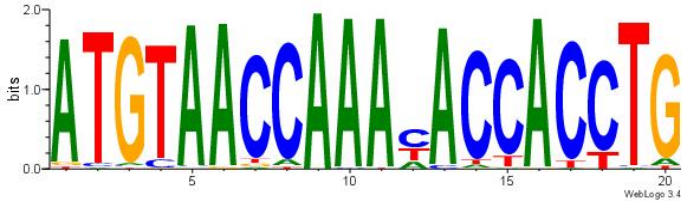

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

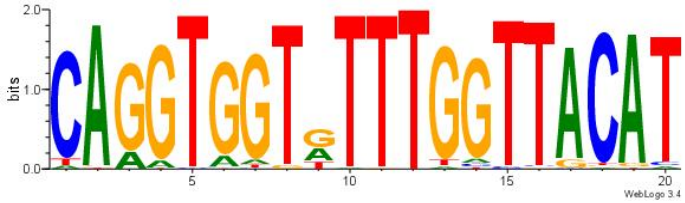

Dataset #: 1

Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.12071

Alignment:
GGTGCCCCTCTGGGACRAA
CTGTTTGCCTGGGTATCA-

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

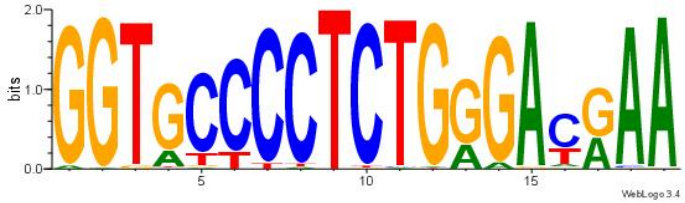

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

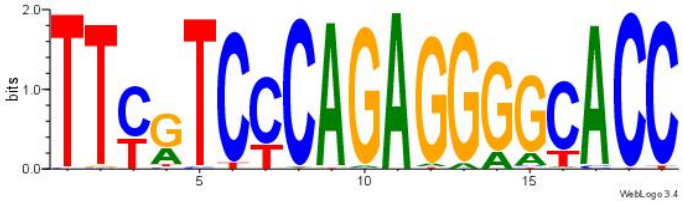

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.121191

Alignment:
ACTTTGGACTGTGGACTTTT
CTGTTTGCCTGGGTATCA--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

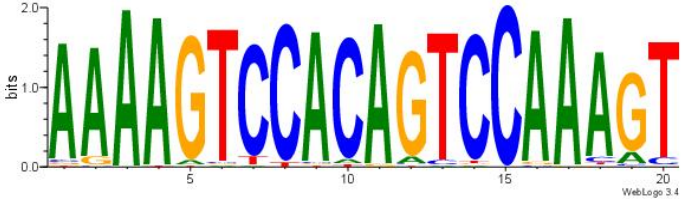

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

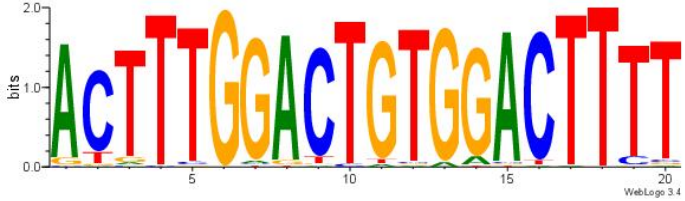

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.122264

Alignment:
CGCGGCGCTTGCGGGCCAGC
CTGTTTGCCTGGGTATCA--

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

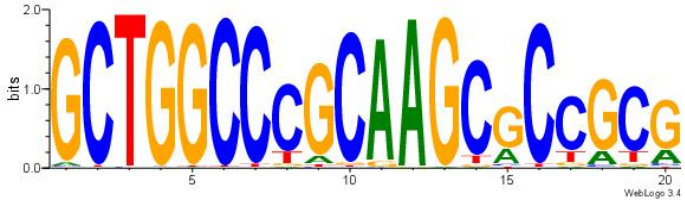

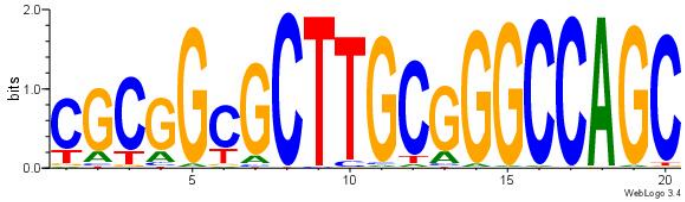

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.123238

Alignment:

```
CGTCGCTCACGCTGGGAGCT
--TGATACCCAGGCAAACAG
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

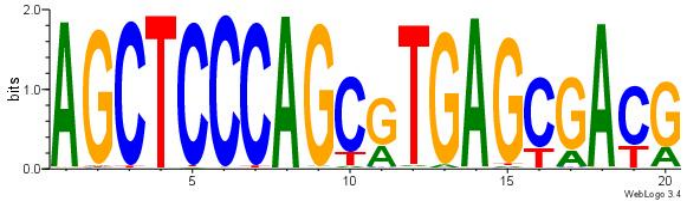

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

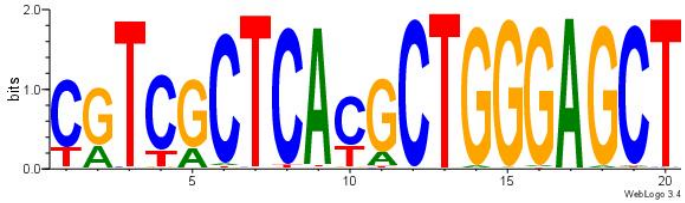

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.123279

Alignment:

```
TCKMGCCACTGCACTCCAGC
--TGATACCCAGGCAAACAG
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

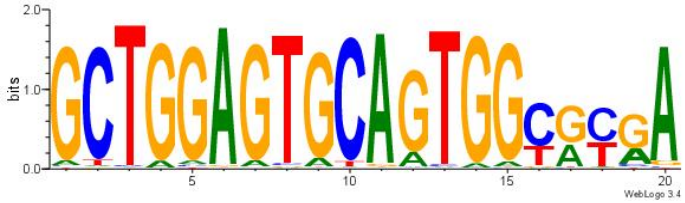

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

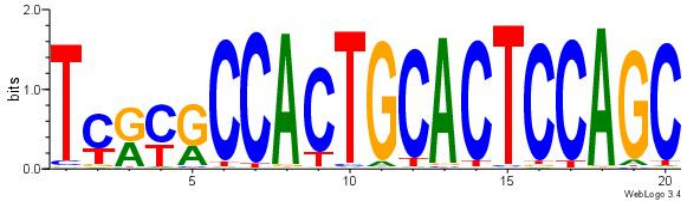

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.124489

Alignment:
GCCAGTCACAAAARGACAMA
-TGATACCCAGGCAAACAG-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

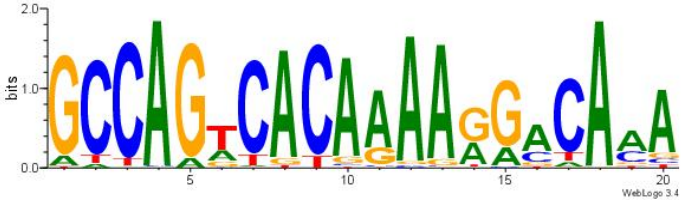

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

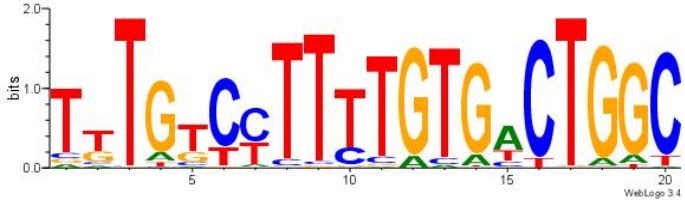

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.126219

Alignment:
ATGGCTGAATAKTATTCCAT
CTGTTTGCCTGGGTATCA--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

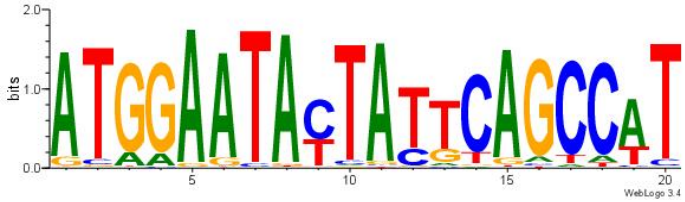

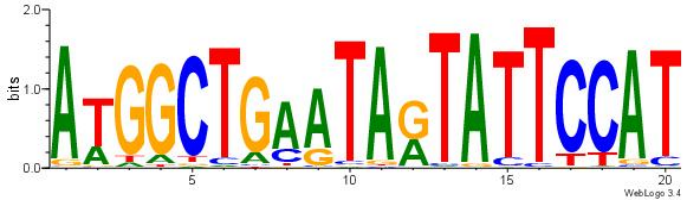

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.126762

Alignment:

```
CTGAGGACCTGAGGTCRTA
CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

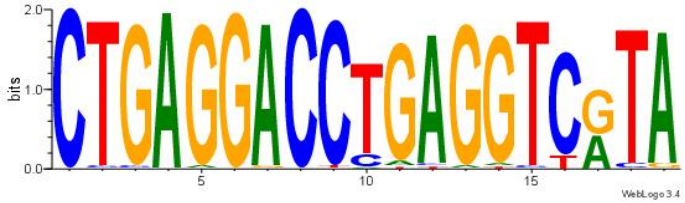

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

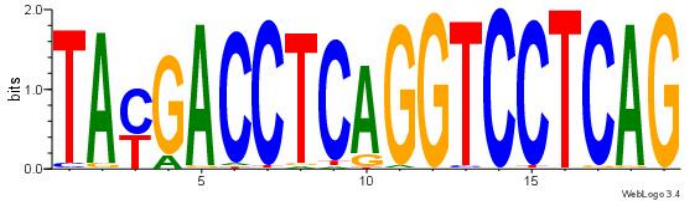

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.12685

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
--CTGTTTGCCTGGGTATCA
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

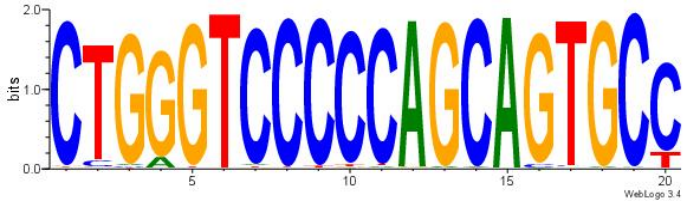

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

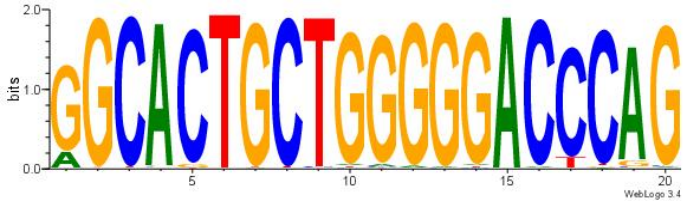

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18

Similarity score: 0.127194

Alignment:
CGAGCCTCCCCGAYGAGCGC
--TGATACCCAGGCAAACAG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

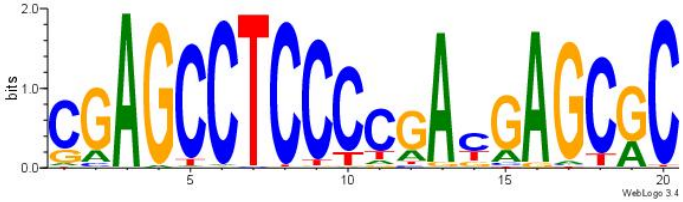

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

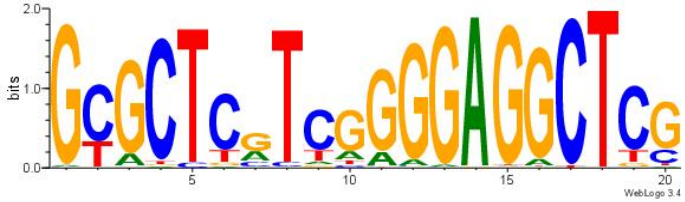

Dataset #: 1
Motif ID: 192
Motif name: Motif 192
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.127202

Alignment:
GAATCCTGGGACAGCCTGT
TGATACCCAGGCAAACAG-

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

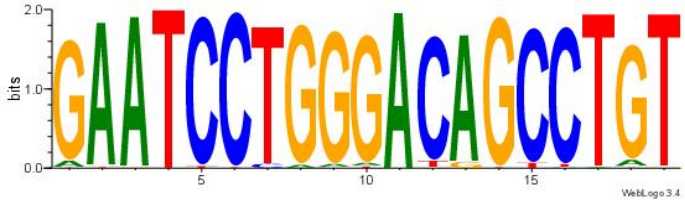

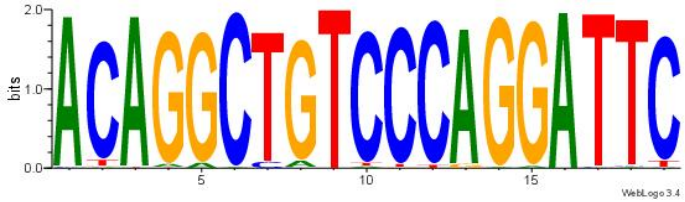

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.127291

Alignment:

```
AGTGACCCGATTTTCCAGGT
--TGATACCCAGGCAAACAG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

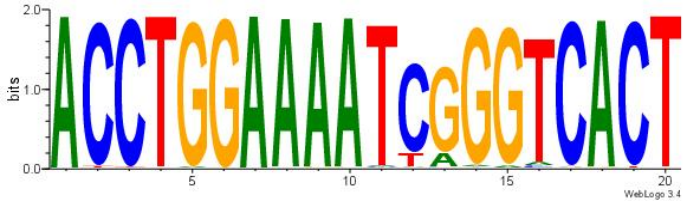

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

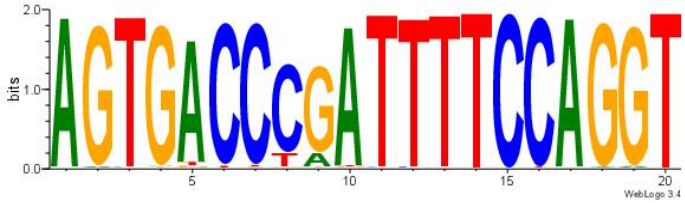

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.127478

Alignment:

```
GGATCCACTGGGTGAAGCCA
TGATACCCAGGCAAACAG--
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

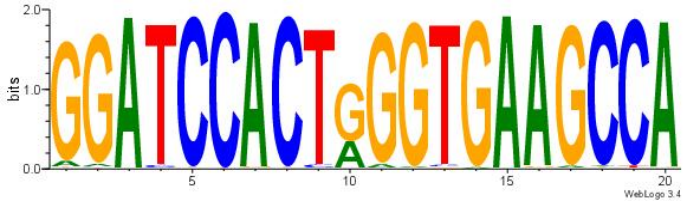

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

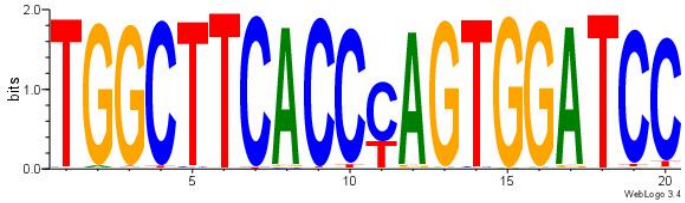

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.127928

Alignment:
ATAGGAATGCTTGTGATTTT
--CTGTTTGCCTGGGTATCA

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

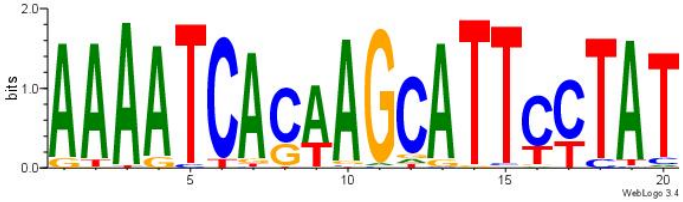

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

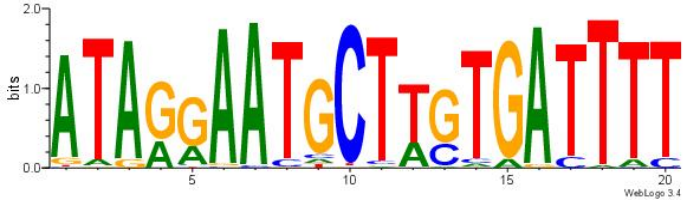

Dataset #: 1
Motif ID: 27
Motif name: Motif 27
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.127996

Alignment:
CGCCCCGTCTGGGAAGTG
CTGTTTGCCTGGGTATCA

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

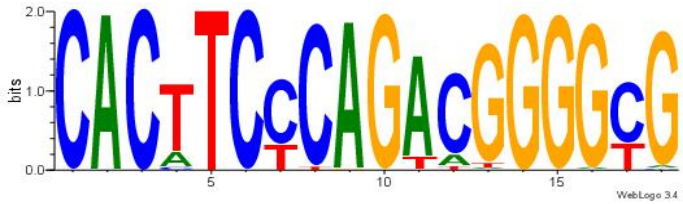

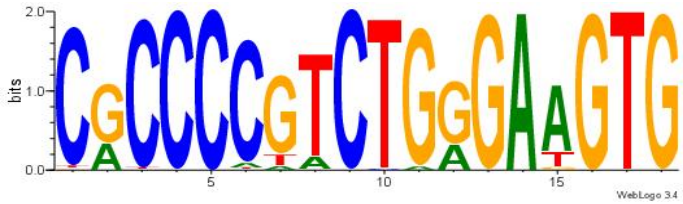

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.128279

Alignment:

```
CCTAGATTTCAGARGATGT
CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

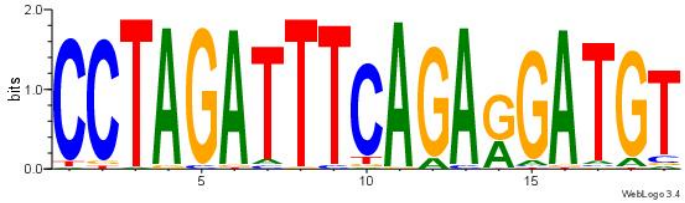

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

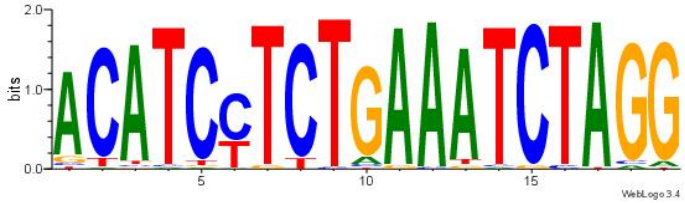

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.128526

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

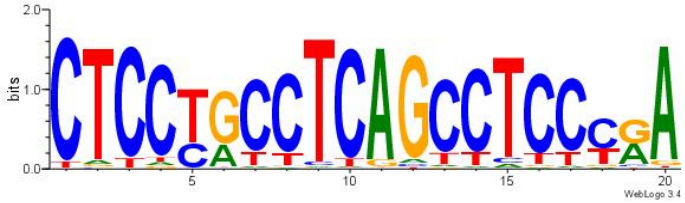

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

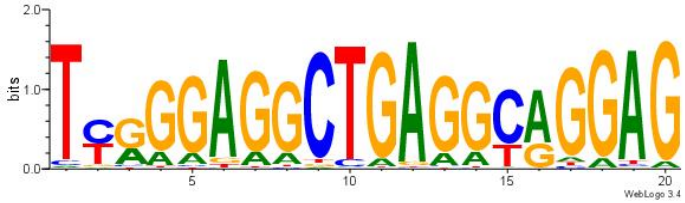

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.12883

Alignment:
CTTTCTGGGCTGGCCAAGG
-CTGTTTGCCTGGGTATCA

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

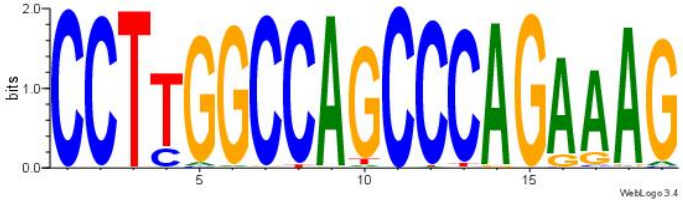

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

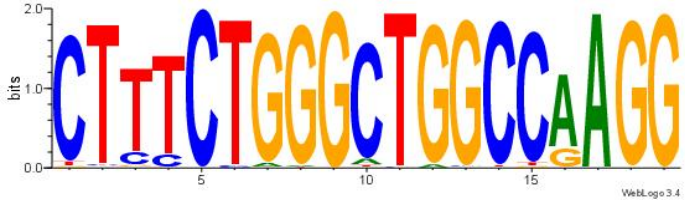

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.130415

Alignment:
AGCTCMKCCTCCTGTCAGAT
--TGATACCCAGGCAAACAG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

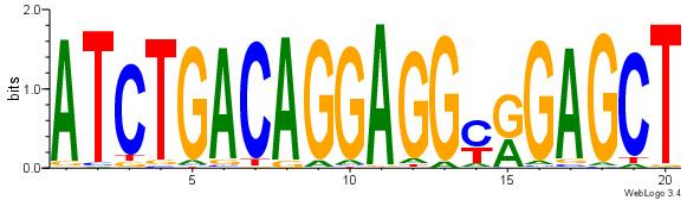

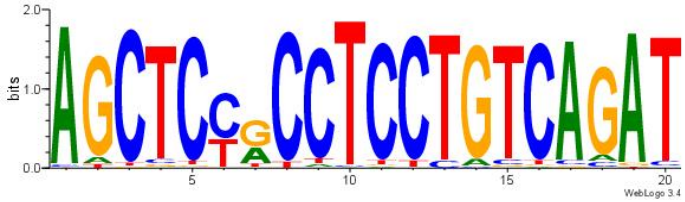

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.131065

Alignment:

```
AAGACCTTCCAGTGGGACAA
--TGATACCCAGGCAAACAG
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

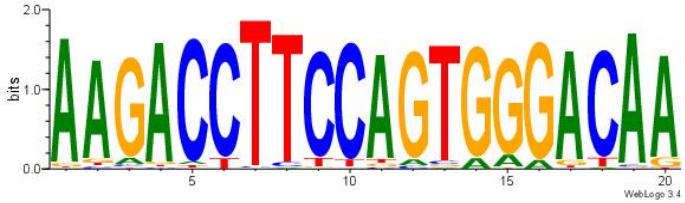

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

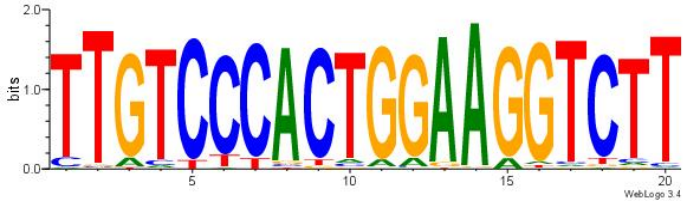

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.131094

Alignment:

```
AAATTAGGCCAATTAATAAC
CTGTTTGCCTGGGTATCA--
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

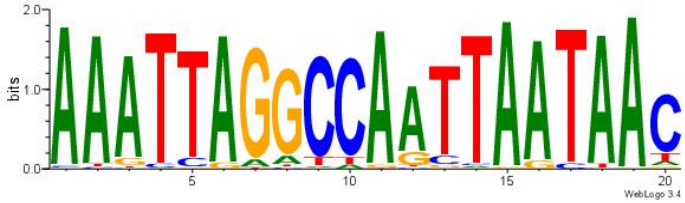

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.131132

Alignment:
TCCAAATGGGAGAAATTGGC
TGATACCCAGGCAAACAG--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

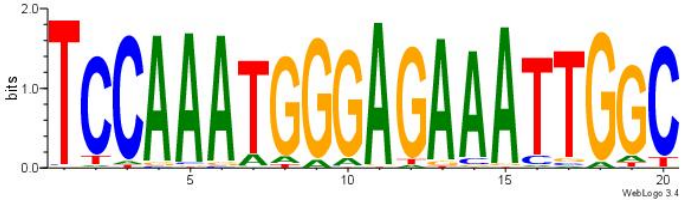

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

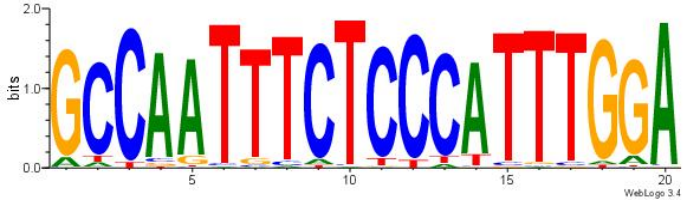

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.131858

Alignment:
GAAHCAACCKAAKTGTCCAT
TGATACCCAGGCAAACAG--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

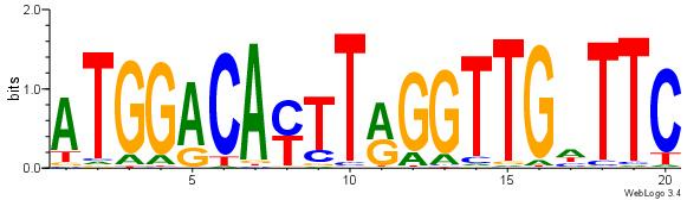

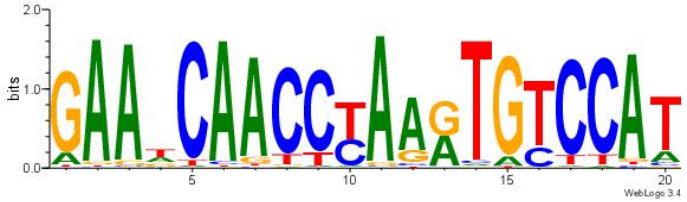

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.132394

Alignment:

```
CAGCTACTCKTATACCCTTG
-TGATACCCAGGCAAACAG-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

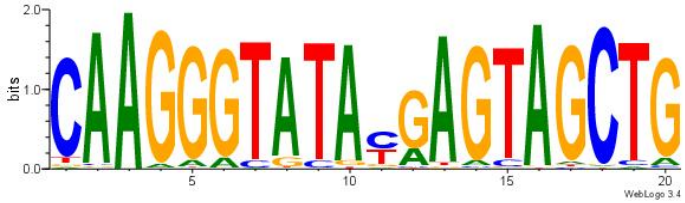

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

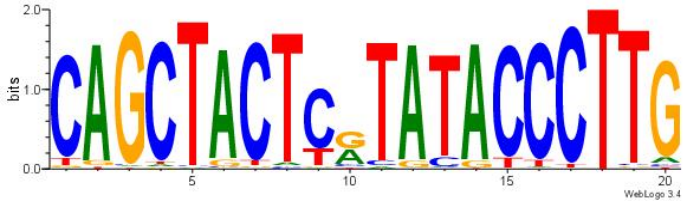

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.132401

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

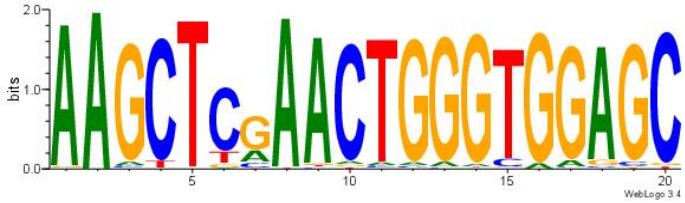

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

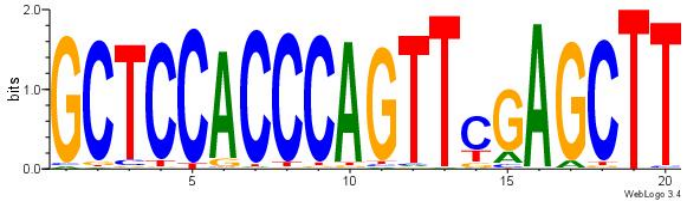

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.132989

Alignment:
GTCTCWAMAAAAAAWAMAAA
-TGATACCCAGGCAAACAG-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

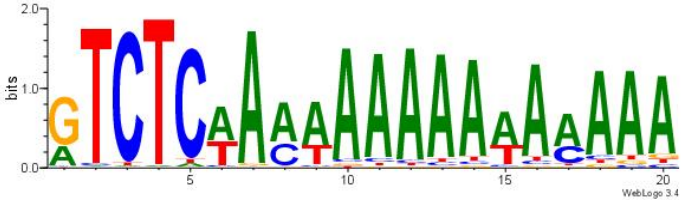

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

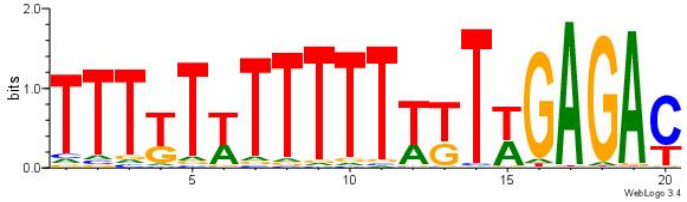

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.133068

Alignment:
GTTGTGAGGATTAAATGAG
TGATACCCAGGCAAACAG-

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

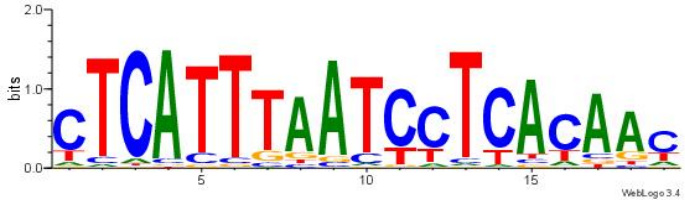

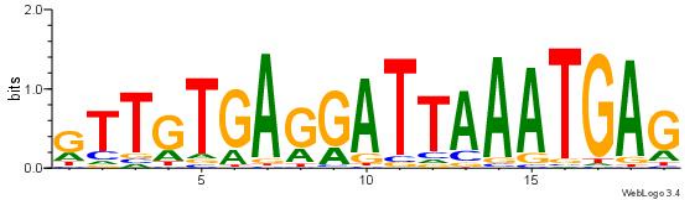

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.133288

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
--CTGTTTGCCTGGGTATCA
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

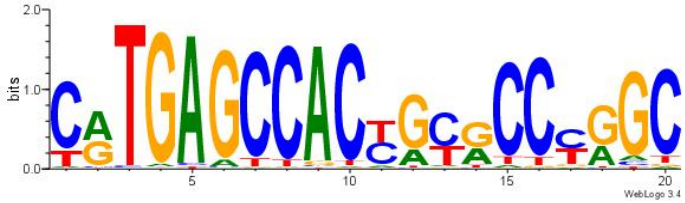

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

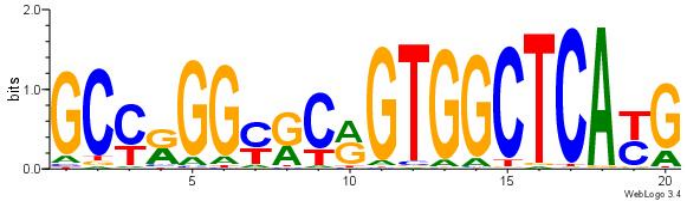

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.133674

Alignment:

```
CTGACTGGGAGACACCTCCC
-TGATACCCAGGCAAACAG-
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

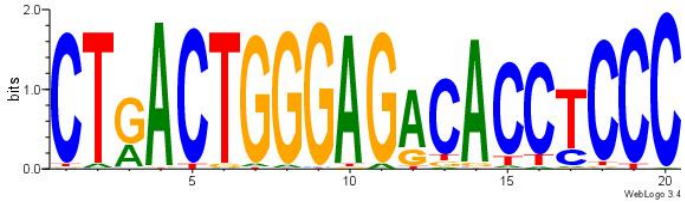

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

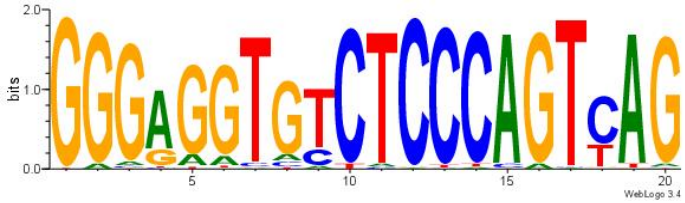

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.134045

Alignment:
GAAACTGCTTTGTGATGTGT
CTGTTTGCCTGGGTATCA--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

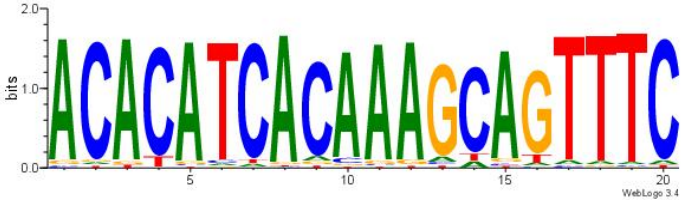

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

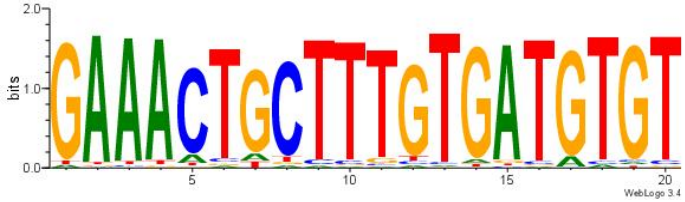

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.13415

Alignment:
GCCTCCTTGAGCTGTGGTGG
--CTGTTTGCCTGGGTATCA

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

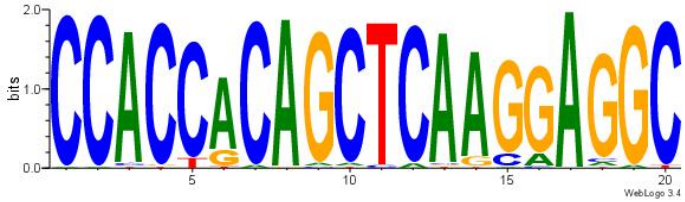

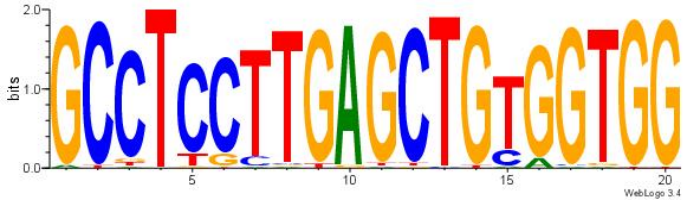

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.134179

Alignment:

```
CCCACGCCCACCCGGAACT
TGATACCCAGGCAAACAG-
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

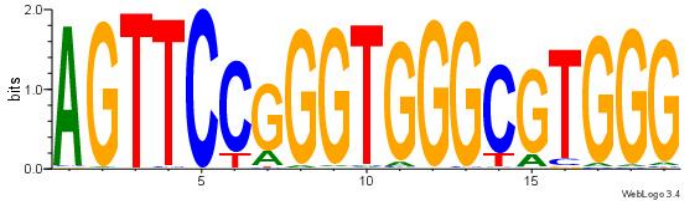

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

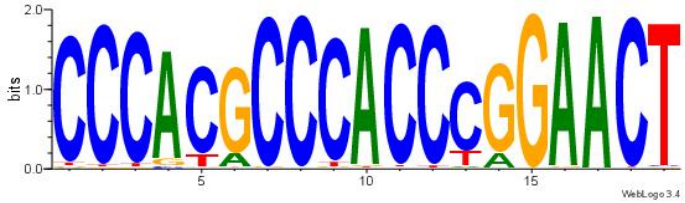

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.13418

Alignment:

```
GCCTCTCCCTCCACACCTCC
--CTGTTTGCCTGGGTATCA
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

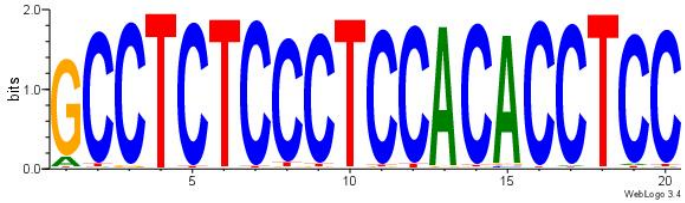

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

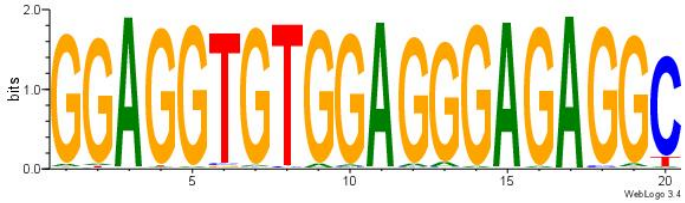

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.134542

Alignment:
GCTGGCCCKGGTGCTAAGC
-TGATACCCAGGCAAACAG

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

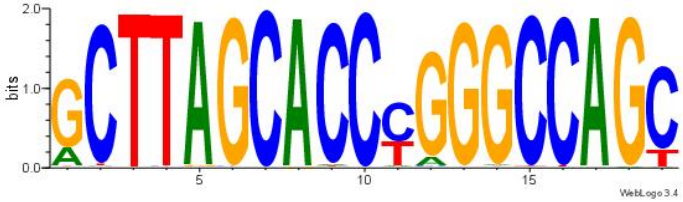

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

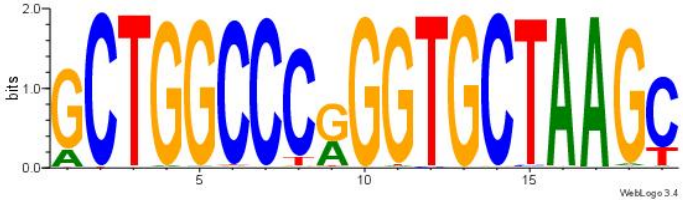

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.134937

Alignment:
AAGTCTCCCAATTACAACT
TGATACCCAGGCAAACAG-

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

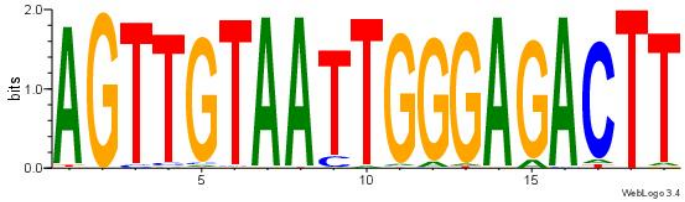

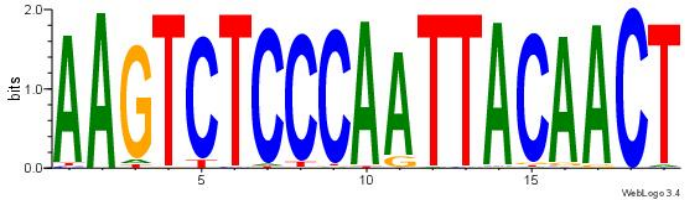

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.135093

Alignment:

```
CMTAGYACAGTGCCTGGCAC
-CTGTTTGCCTGGGTATCA-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

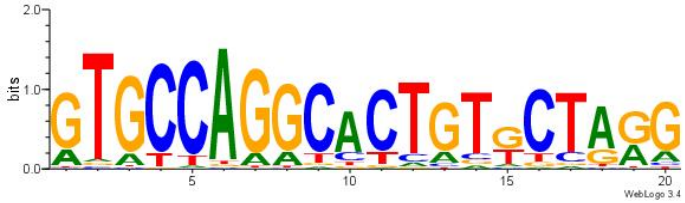

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

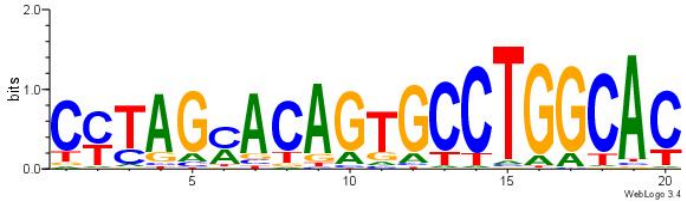

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.135533

Alignment:

```
CTAGACATAAAGGTTCTCCA
--TGATACCCAGGCAAACAG
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

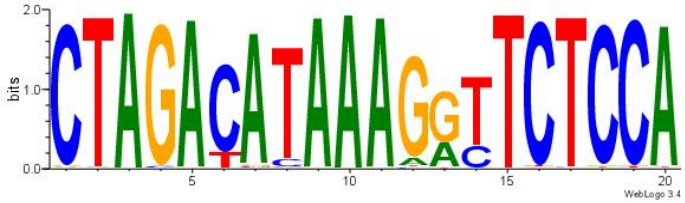

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

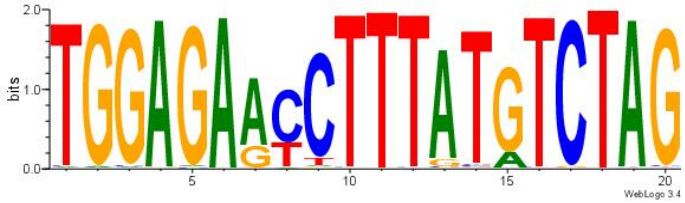

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.1356

Alignment:
ATTGGTGTATTTACAATCCC
-CTGTTTGCCTGGGTATCA-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

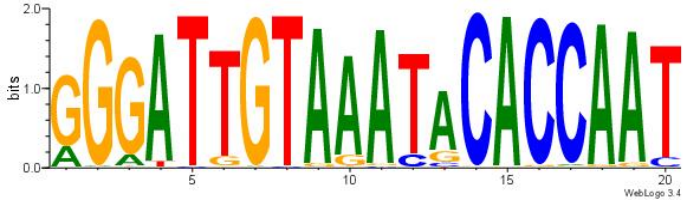

Dataset #: 1 Motif ID: 291 Motif name: Motif 291

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

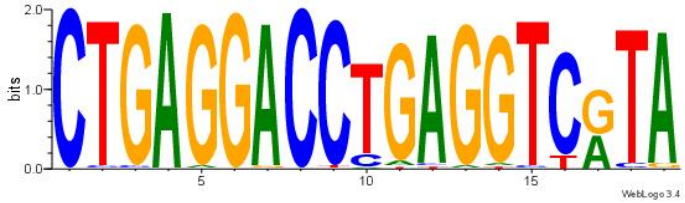

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

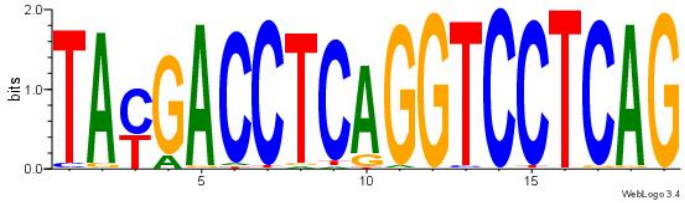

Best Matches for Motif ID 291 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0928513

Alignment:

```
AAAMAMMKMATGTTCTCACT
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

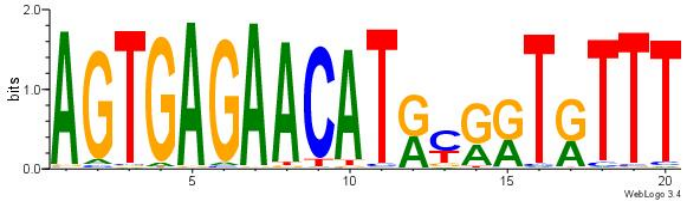

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

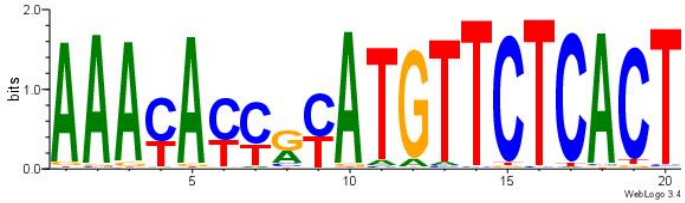

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.0929924

Alignment:

GCAAAKGACATGATYTCATT
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

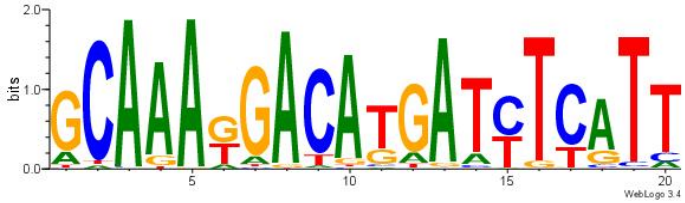

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

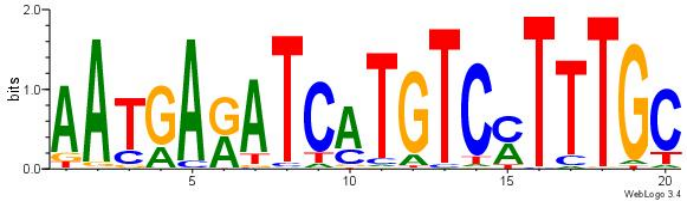

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.105301

Alignment:
CTGGGCTCCTGAGTCTGGTG
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

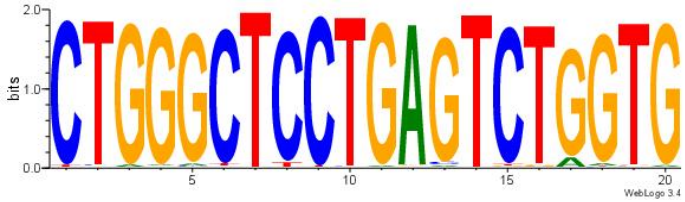

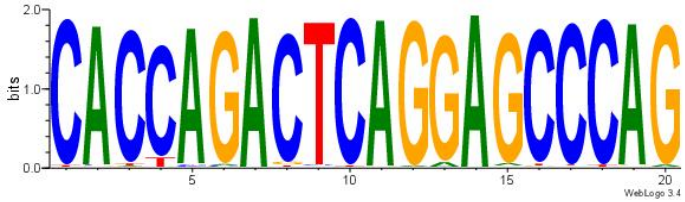

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.114654

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

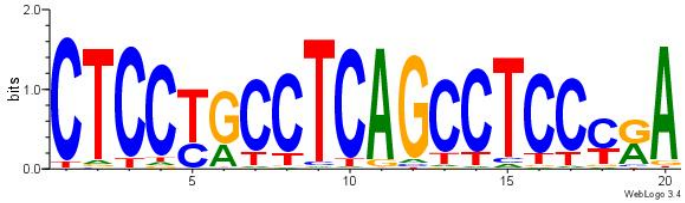

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

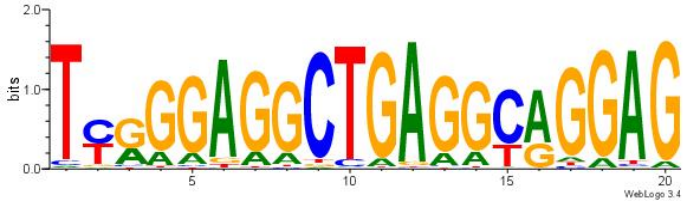

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.117941

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

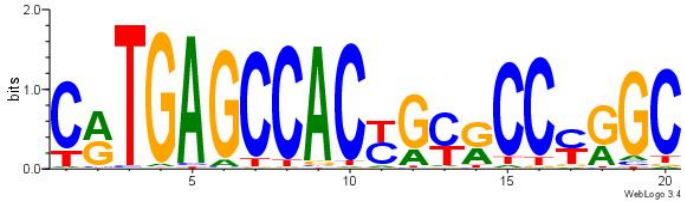

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

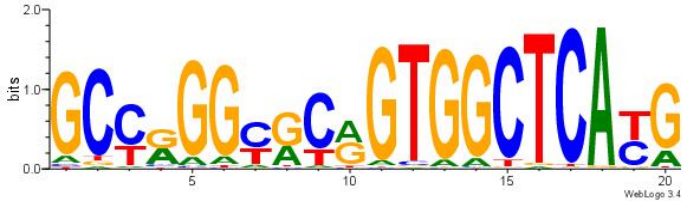

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.119258

Alignment:
ATTGATMKCCAGGGTTGATT
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

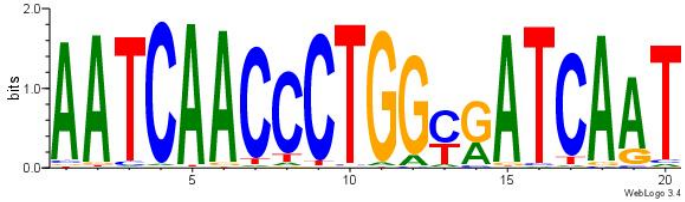

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

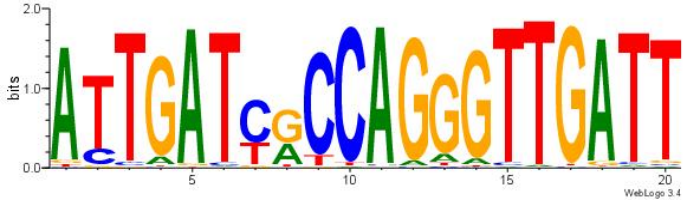

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.120208

Alignment:
MGTCTMKCTCTGTKGCCCAG
-TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

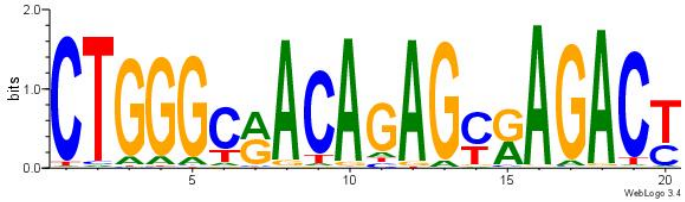

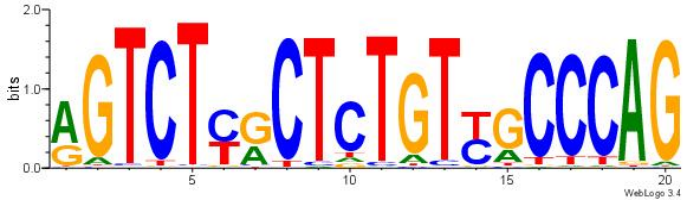

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.122665

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

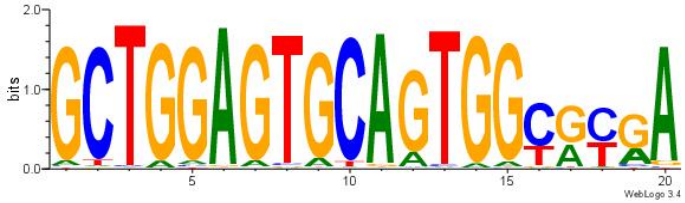

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

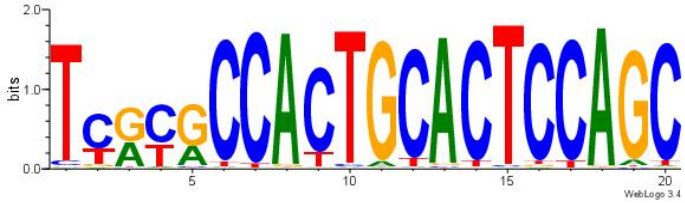

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.127697

Alignment:

```
ATGGACAYTTRGGTTGHTTC
CTGAGGACCTGAGGTCRTA-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

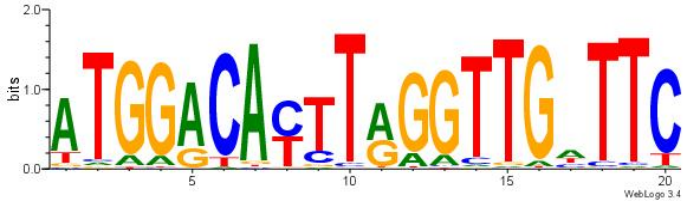

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

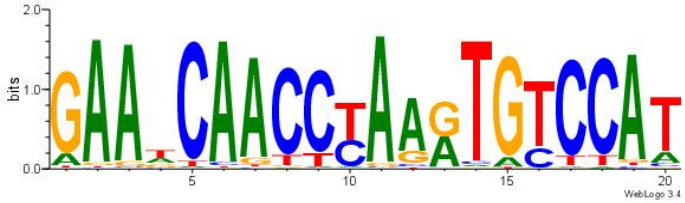

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.129849

Alignment:
GGGCTCCCACAGTGCAGCGG
-TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

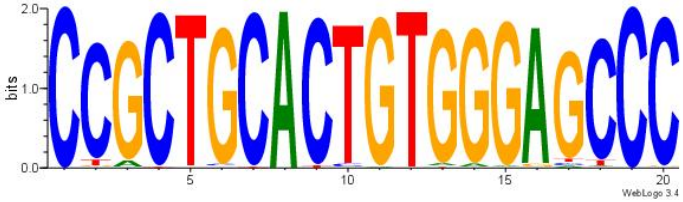

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

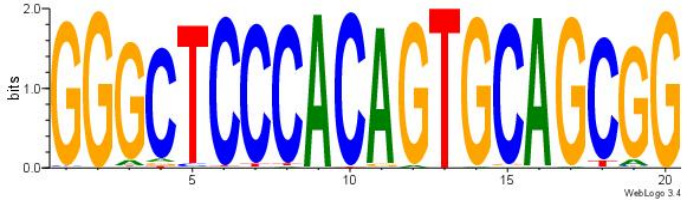

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.131441

Alignment:
CTGGCCCTCAATGGTTAAAC
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

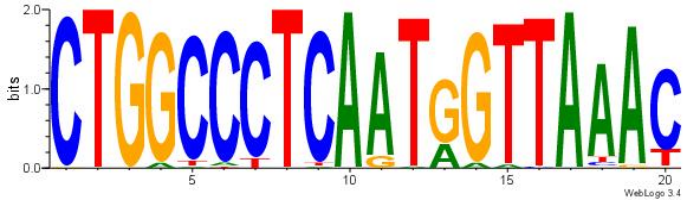

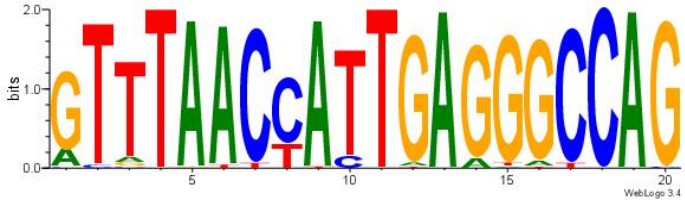

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131588

Alignment:

```
CTAGACATAAAGGTTCTCCA
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

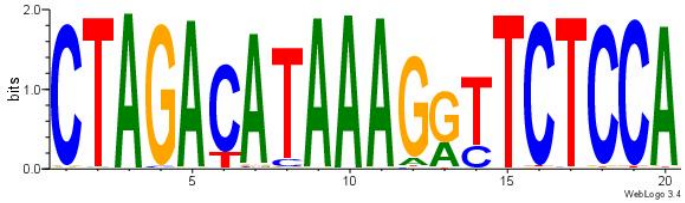

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

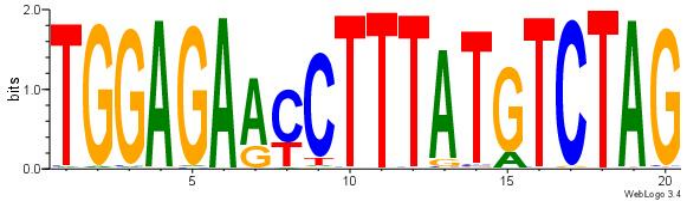

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.131647

Alignment:

```
GGCACTGCTGGGGGACCCAG
-TAMGACCTCAGGTCCTCAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

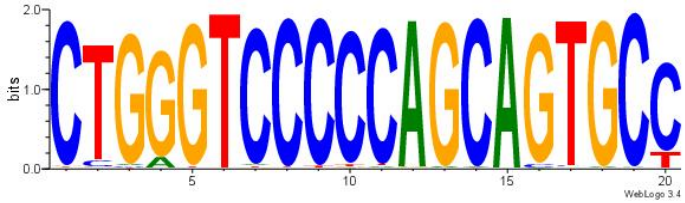

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

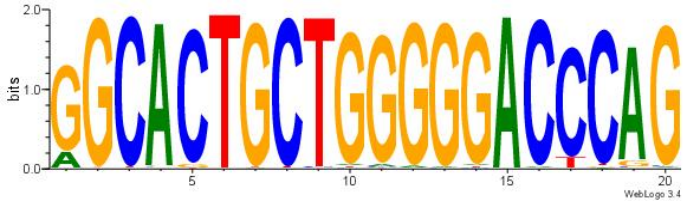

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.132405

Alignment:
GTAGACKGGAGCTGTTCCT
TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

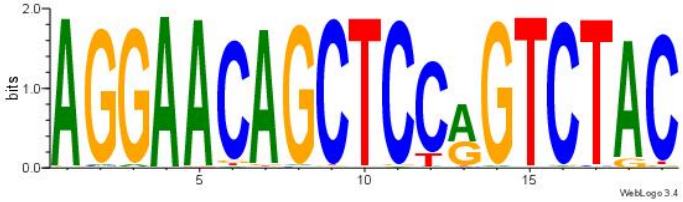

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

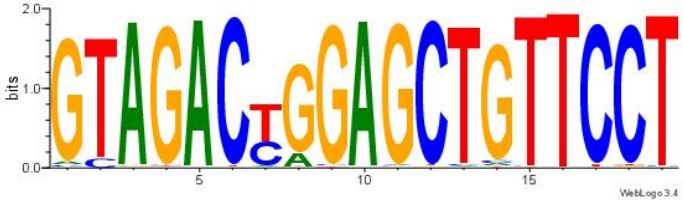

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.132908

Alignment:
CCCGAAGCTGCRYRCTCGGT
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

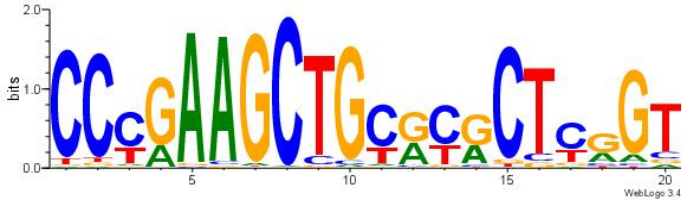

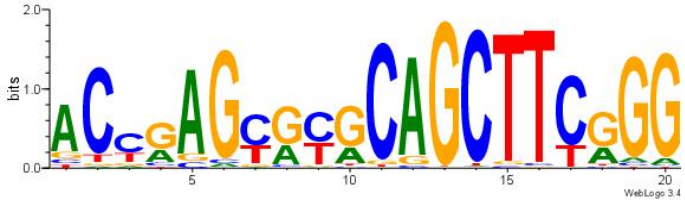

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.133269

Alignment:

```
ACCTGGAAAATCGGGTCACT
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

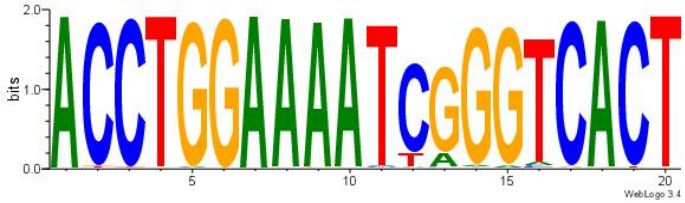

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

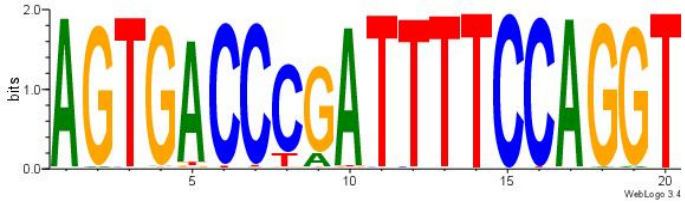

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133592

Alignment:

```
ACTTTGGACTGTGGACTTTT
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

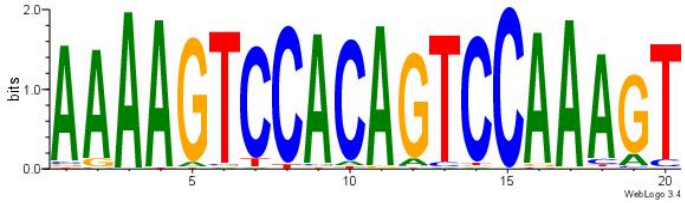

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

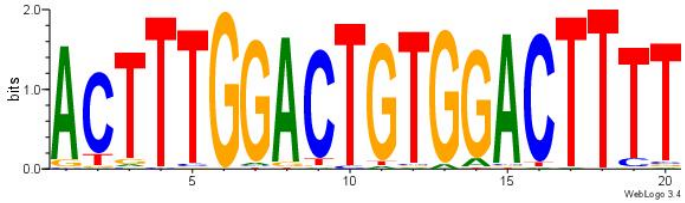

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.134124

Alignment:
AAAACCAGCAAGTTTTTAT
TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

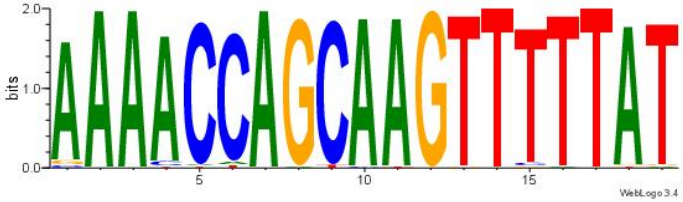

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

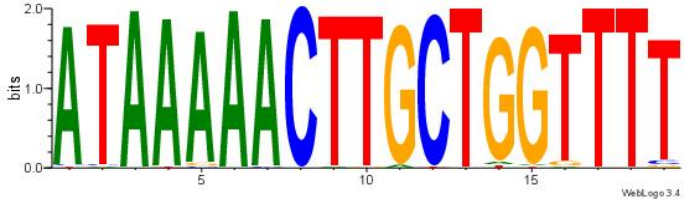

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.135412

Alignment:
GCTGTGTGACCTTGGGCAAG
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

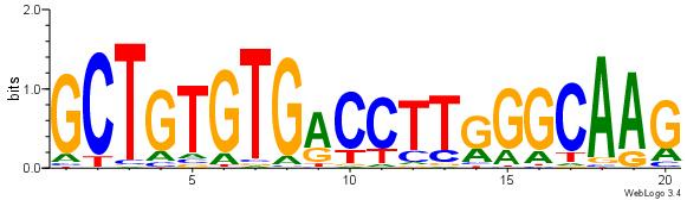

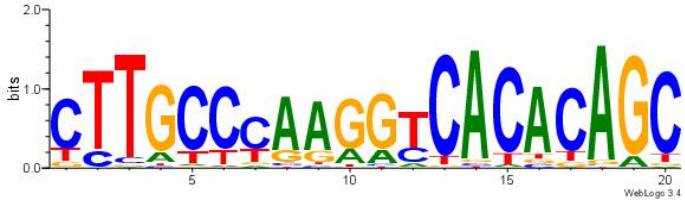

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.135625

Alignment:

```
GACAGGAGATTAACACTGAG
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

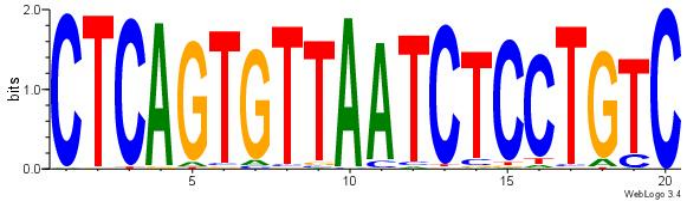

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

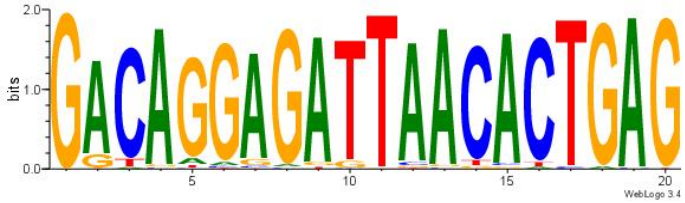

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136178

Alignment:

```
CACCAGGAGATTATATCCCR
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

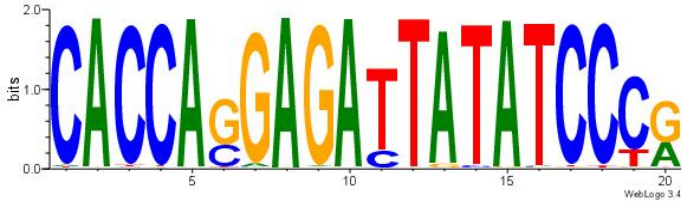

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

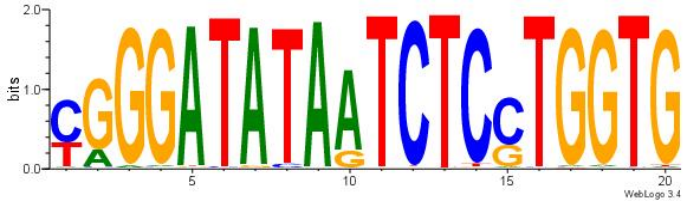

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.136683

Alignment:
CAGGTGGTKTTTGGTTACAT
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

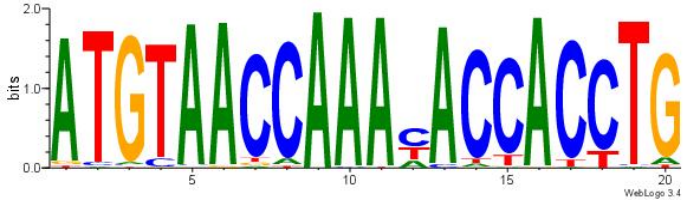

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

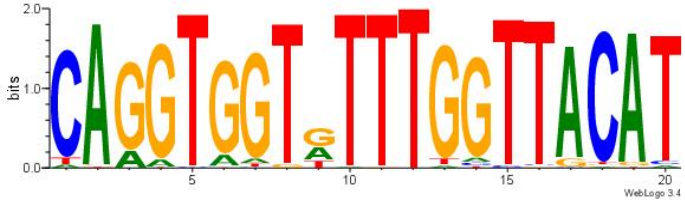

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.136853

Alignment:
GAAGGCAGCTAAGGCCCGGY
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

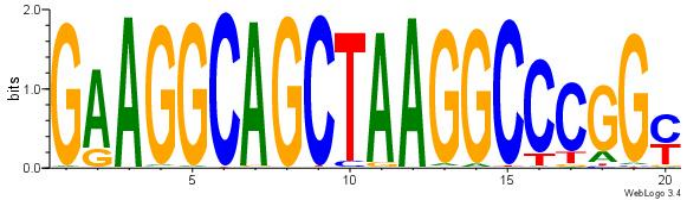

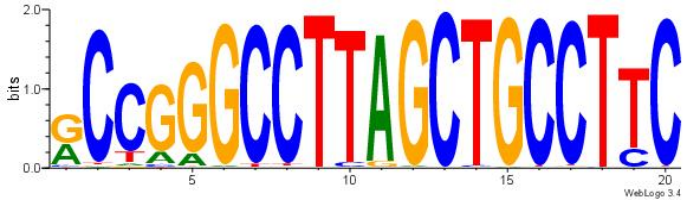

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.138775

Alignment:

```
AGGAGCGCCTCTKCCCGGC
CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

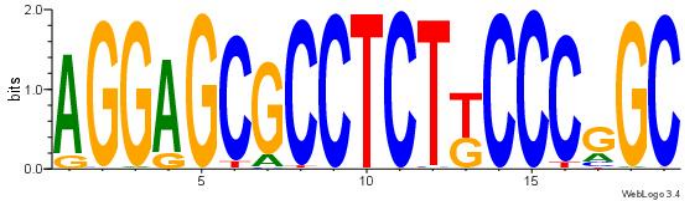

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

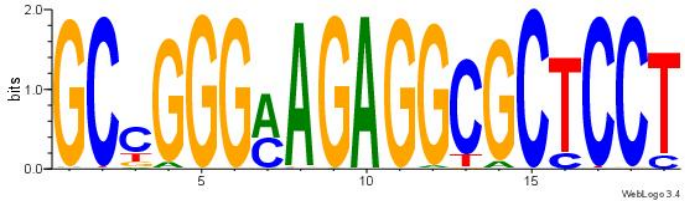

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.13931

Alignment:

```
GCCAGTCACAAAARGACAMA
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

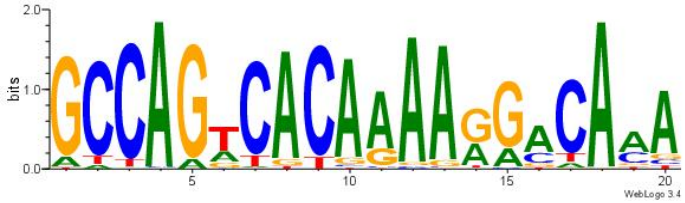

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

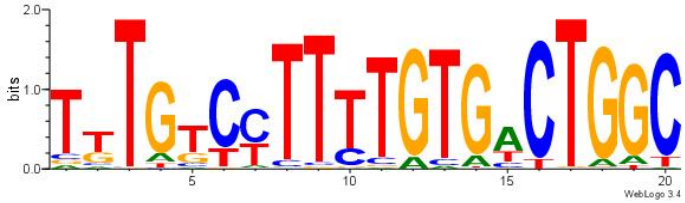

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.141085

Alignment:
AGTAGGTGCTCARTAAATRB
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

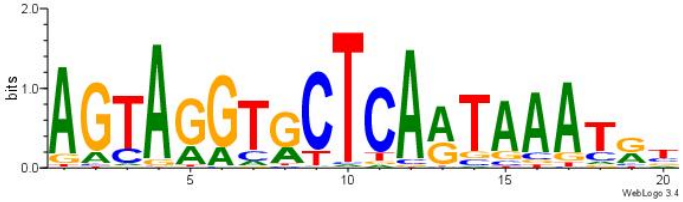

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

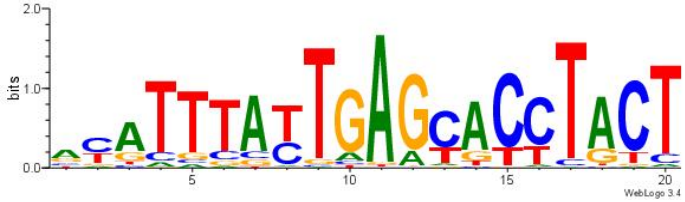

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.141617

Alignment:
CMTAGYACAGTGCCTGGCAC
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

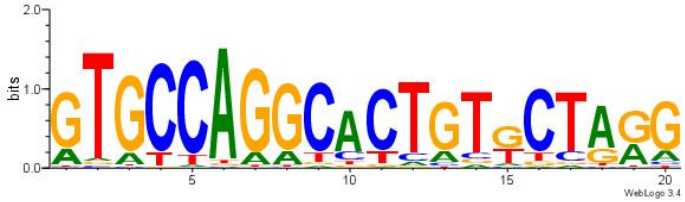

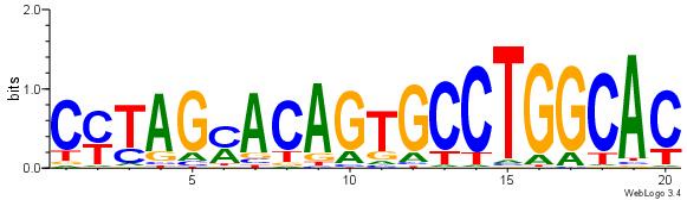

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.141726

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

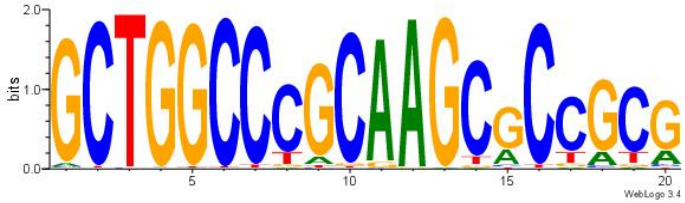

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

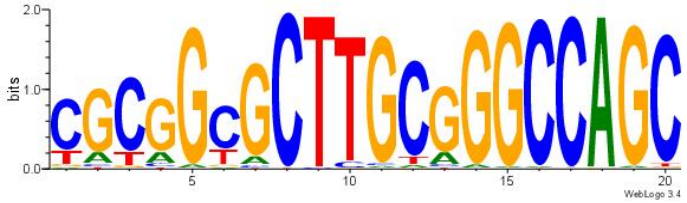

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.142189

Alignment:

```
GAATACCTCCTGAAGGACCT
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

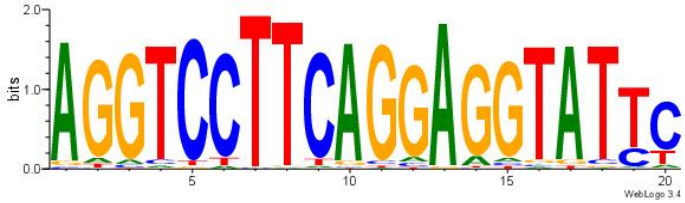

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

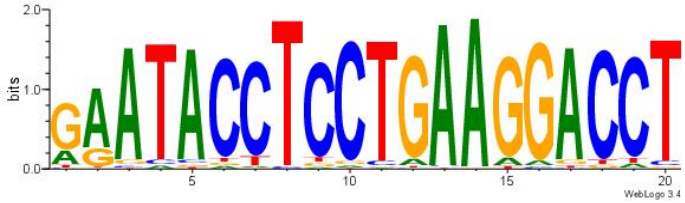

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.143408

Alignment:
HAGTGGKATTGCTGGATCAT
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

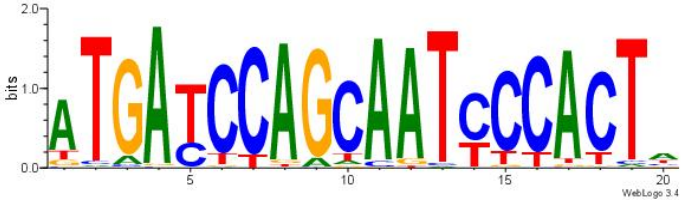

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

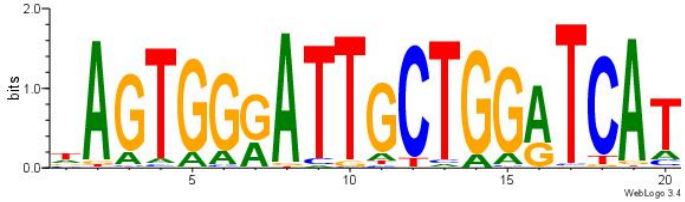

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.143647

Alignment:
ATAGGAATGCTTGTGATTTT
-TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

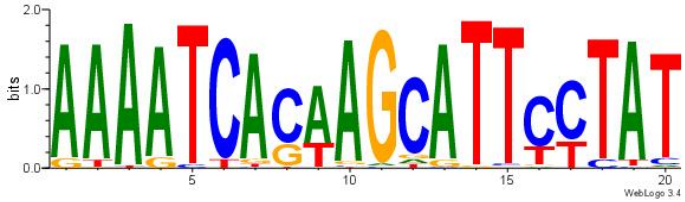

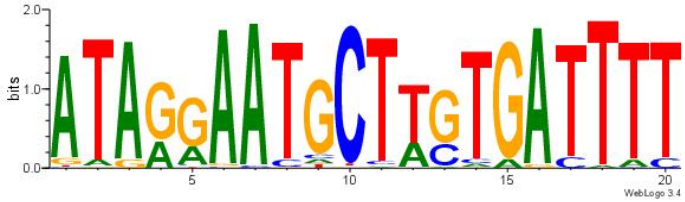

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144466

Alignment:

```
GCCAGGCAGAGRGKCTCCT
TAMGACCTCAGGTCCTCAG
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

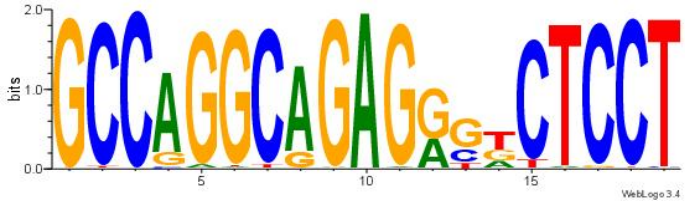

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

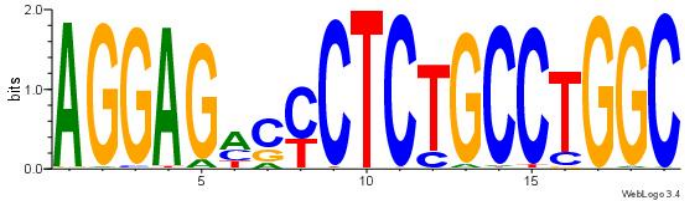

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.144541

Alignment:

```
ATCTGACAGGAGGYRGAGCT
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

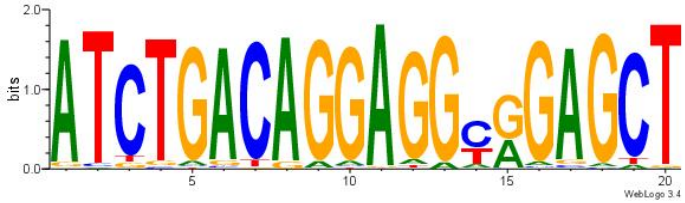

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

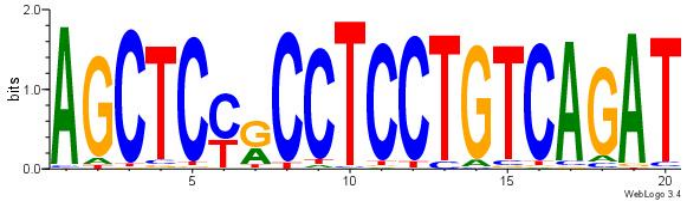

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.145085

Alignment:
GTTATTAATTGGCCTAATTT
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

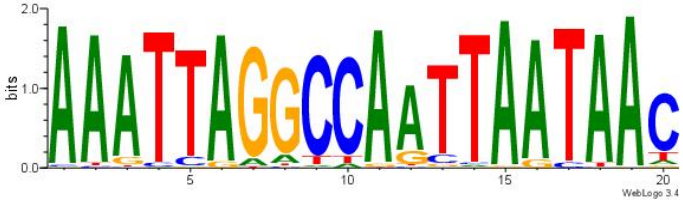

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.145722

Alignment:
CAAGGGTATAYGAGTAGCTG
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

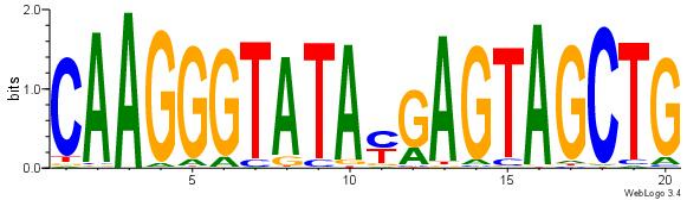

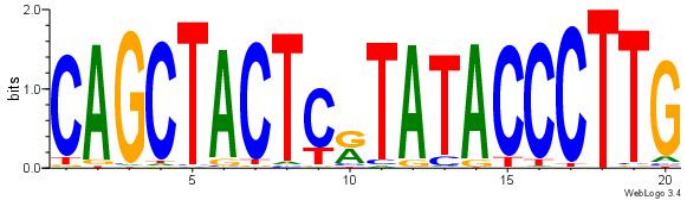

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.146781

Alignment:

```
AGGASCSTCYSWGCCMGGY
CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

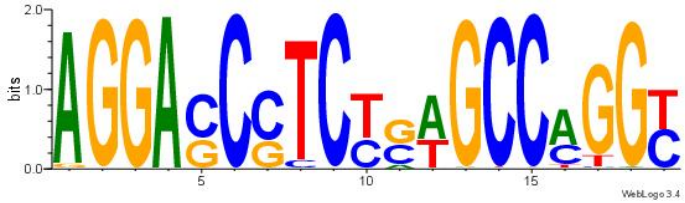

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

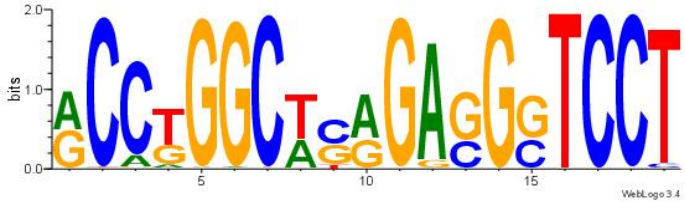

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.147501

Alignment:
TGAGKCAATTAAACCTCTT
TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

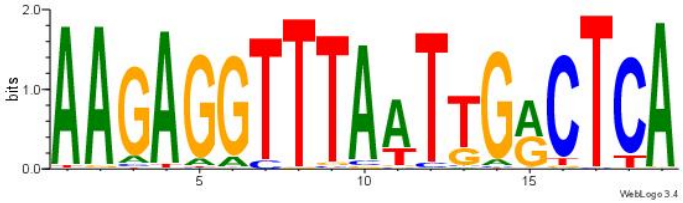

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

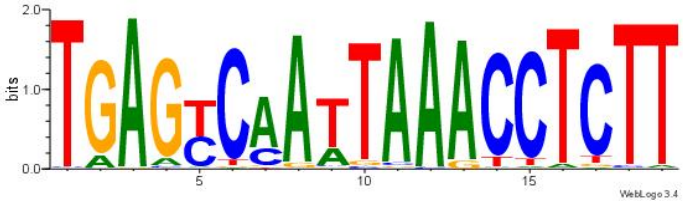

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.14807

Alignment:
GGGAGGTGTCTCCCAGTCAG
-TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

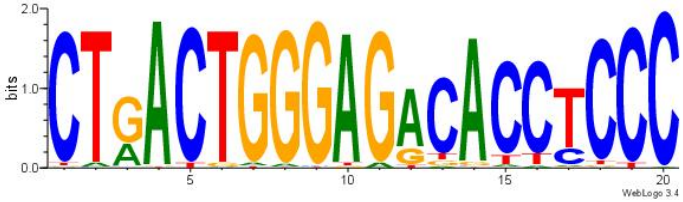

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

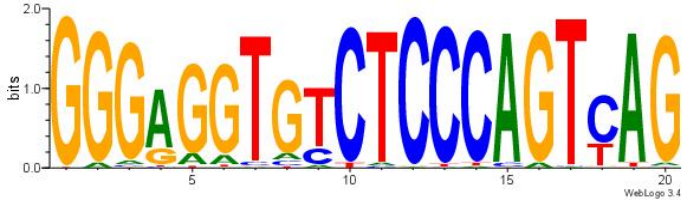

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.14935

Alignment:
GAGAGAGAGAGAGAGAGAGA
CTGAGGACCTGAGGTCRTA-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

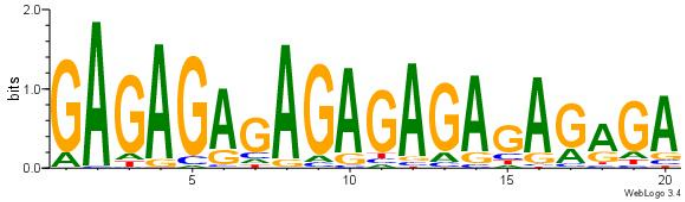

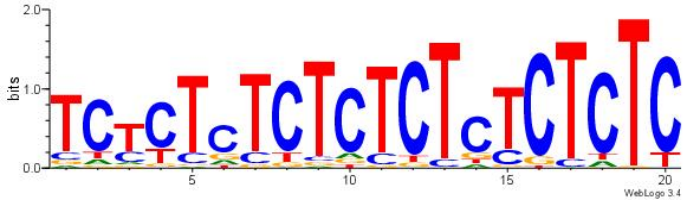

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.149466

Alignment:

```
GTGGCCCTCTTCTCACAGCT
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

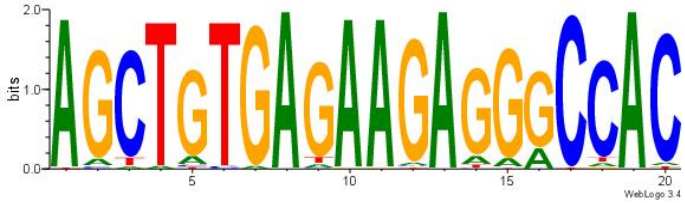

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

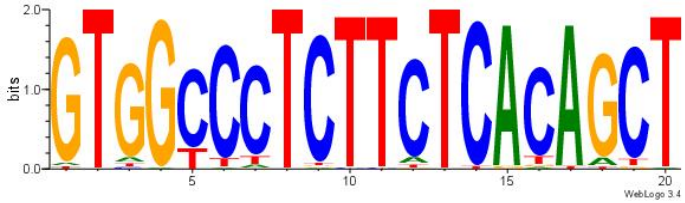

Dataset #:	1

Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.151567

Alignment:

```
CCCYAATACTGCGCTTTTC
CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

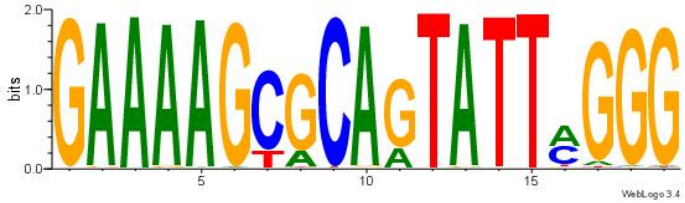

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

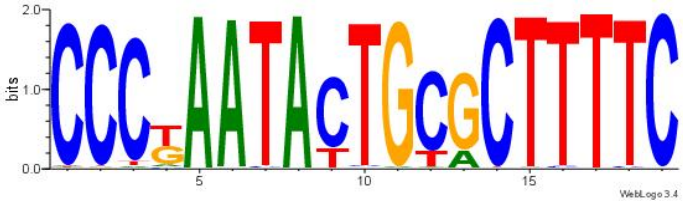

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.151956

Alignment:
TAATTTTATGTGTCAACTTG
TAMGACCTCAGGTCCTCAG-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

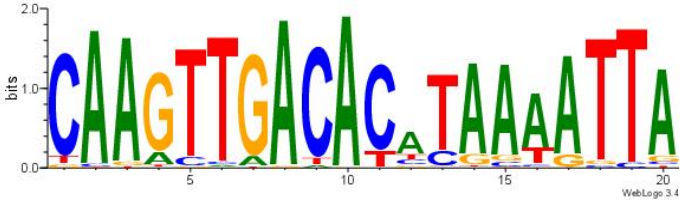

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

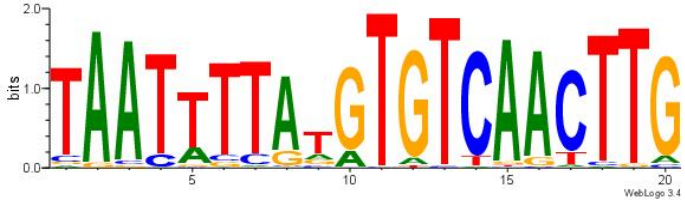

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.152351

Alignment:
AAGCAGGGCGAGGCATTGCC
-CTGAGGACCTGAGGTCRTA

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

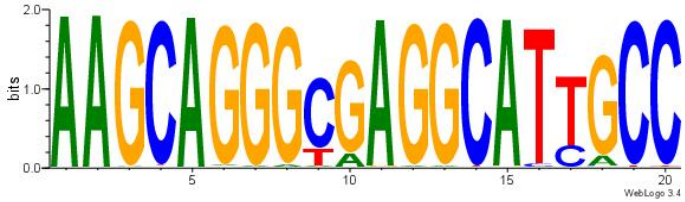

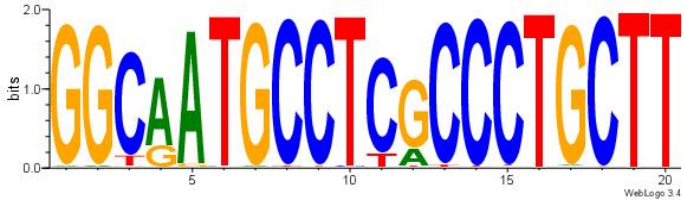

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.152439

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
TAMGACCTCAGGTCCTCAG-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

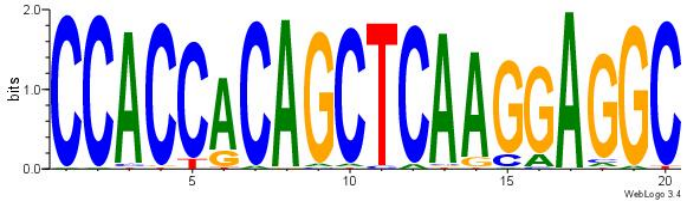

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

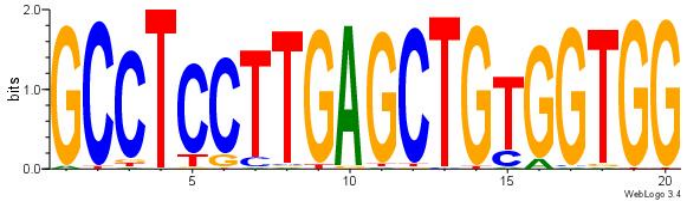

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.154822

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-CTGAGGACCTGAGGTCRTA
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

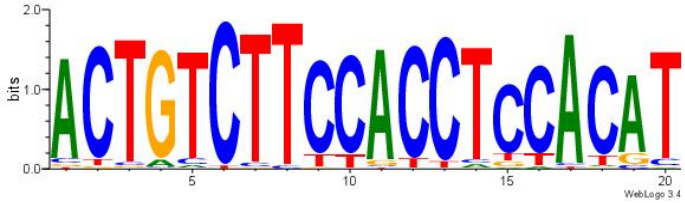

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

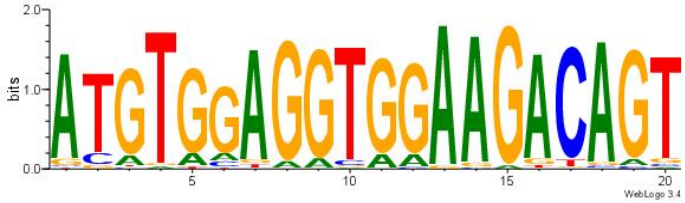

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.156157

Alignment:
AAATTACCCAGTCTCAGGTA
TAMGACCTCAGGTCCTCAG-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

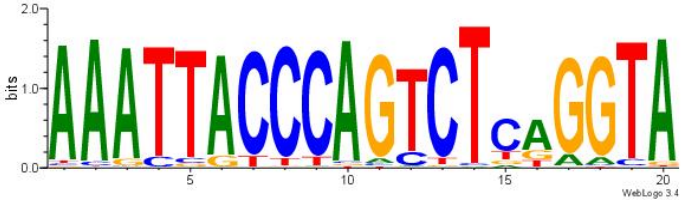

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

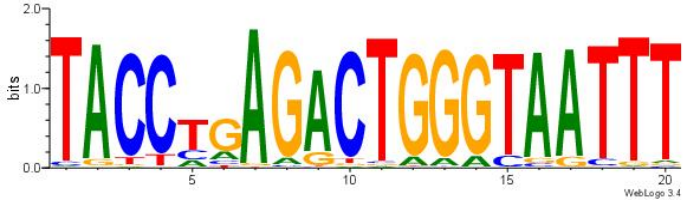

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.1564

Alignment:
ACCCAATWTGTAGTCTTTTA
-TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

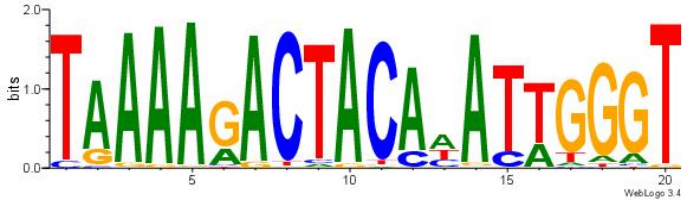

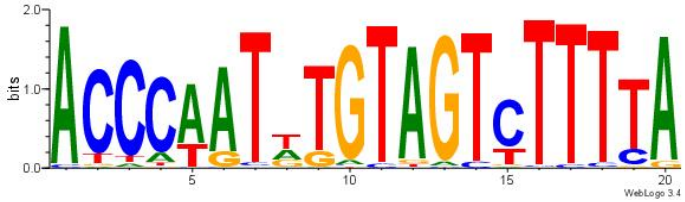

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.157895

Alignment:

```
GTAACACTCACCGCGARGGT
-TAMGACCTCAGGTCCTCAG
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

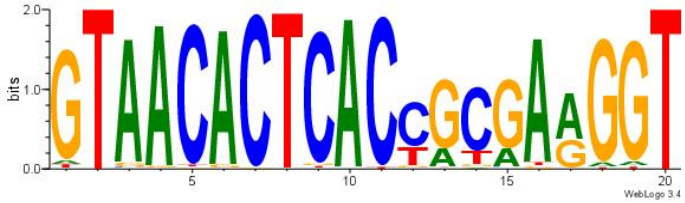

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

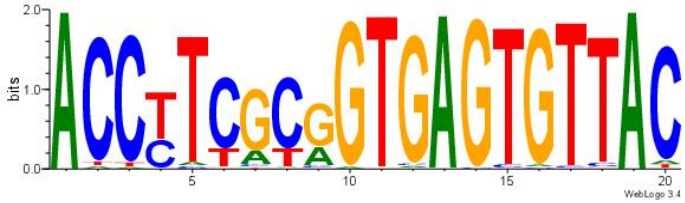

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.157977

Alignment:

```
AACCCTATTGTGAACTGYG
TAMGACCTCAGGTCCTCAG
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

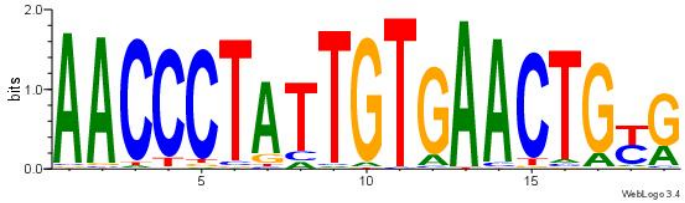

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

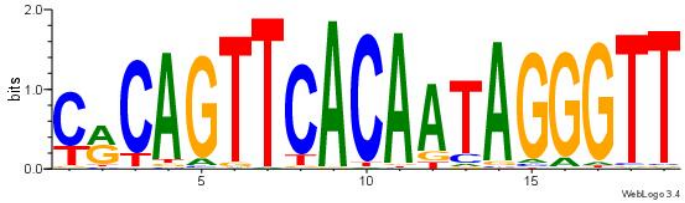

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.158362

Alignment:
GCAGCAMTATTCACAATAG
TAMGACCTCAGGTCCTCAG

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

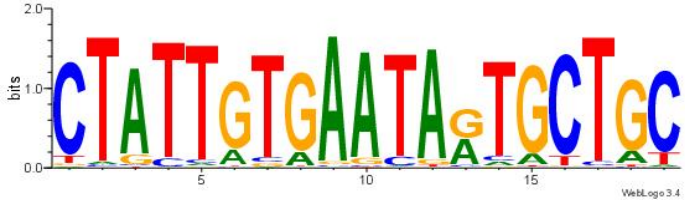

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

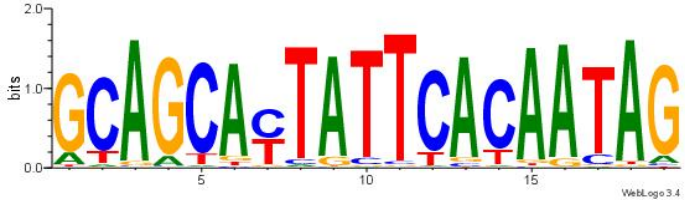

Dataset #: 1 Motif ID: 292 Motif name: Motif 292

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

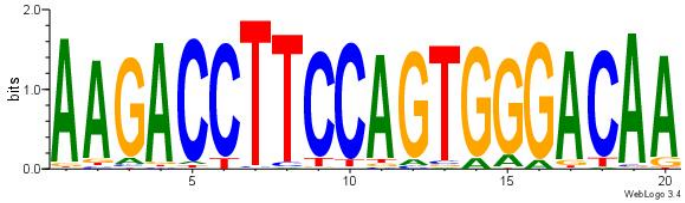

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

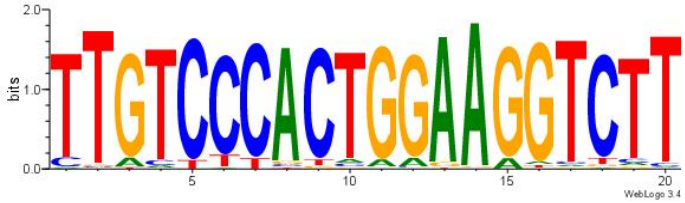

Best Matches for Motif ID 292 (Highest to Lowest)

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.094932

Alignment:

```
GAATACCTCCTGAAGGACCT
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

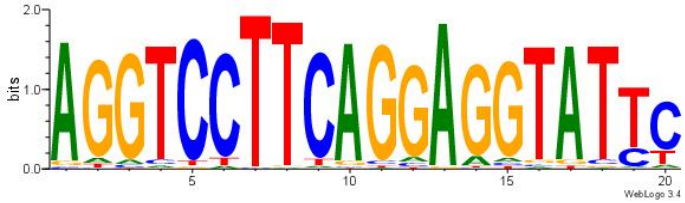

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

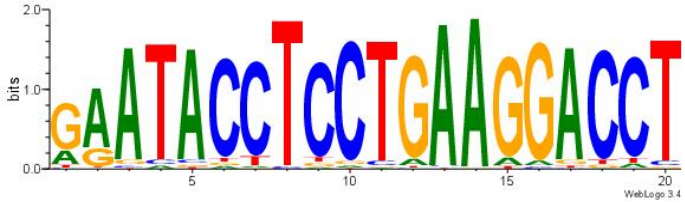

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106872

Alignment:

KKCACCTTGATCTTGGACTT
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

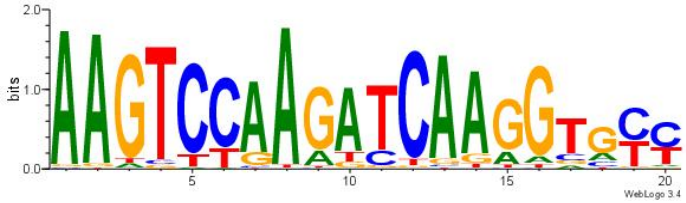

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

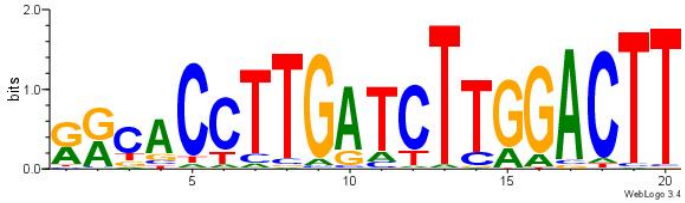

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.109322

Alignment:
AACAACASACACTGGGGCCT
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

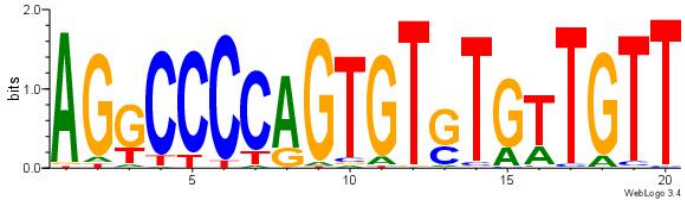

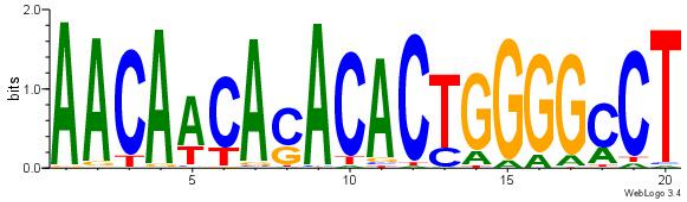

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112394

Alignment:

```
ATGTGGAGGTGGAAGACAGT
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

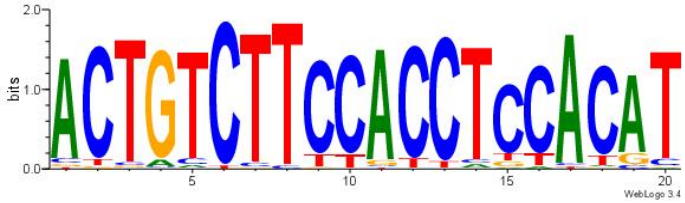

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

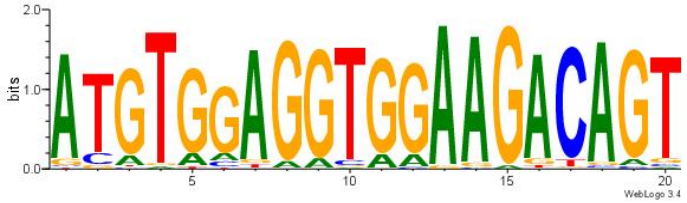

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11745

Alignment:
ATGATCCAGCAATYCCACTH
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

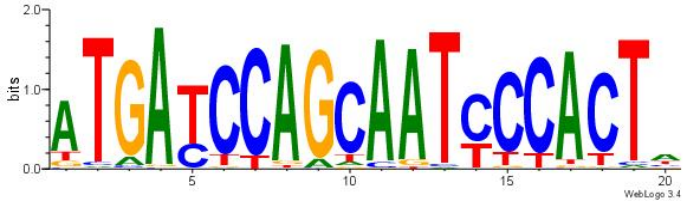

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

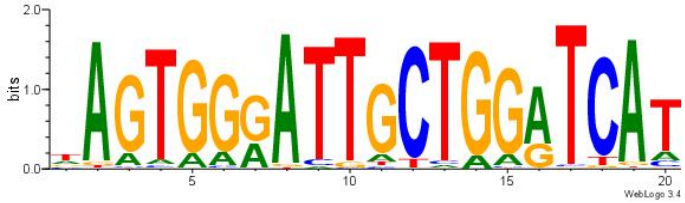

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.120172

Alignment:
GTTTAACCATTGAGGGCCAG
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

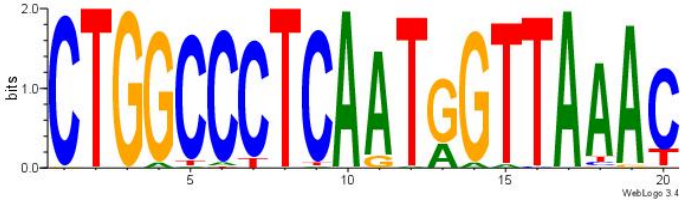

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

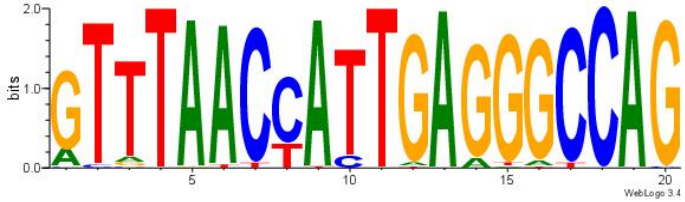

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.121128

Alignment:
GCTGGAGTGCAGTGGCRYGA
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

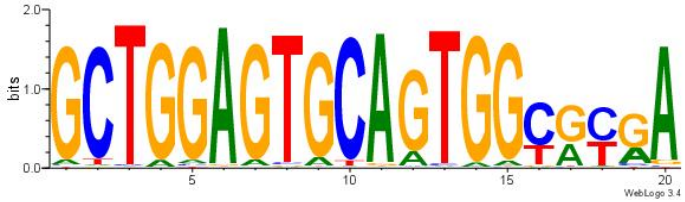

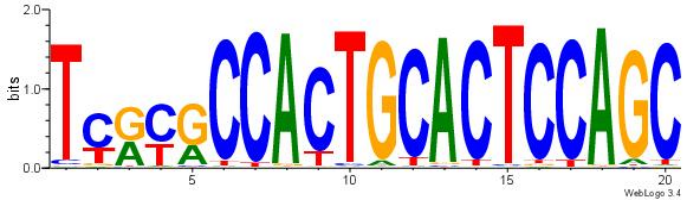

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124237

Alignment:
GTKTMTATMTACCACATTTT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

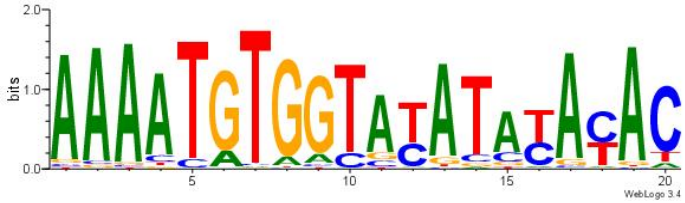

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

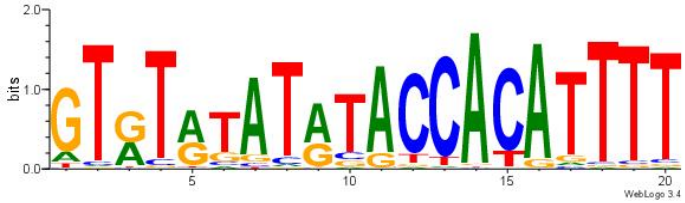

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128145

Alignment:

```
ATGGCTGAATAKTATTCCAT
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

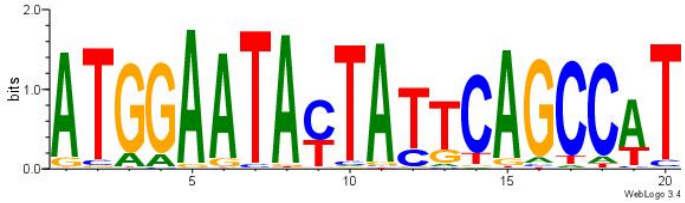

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

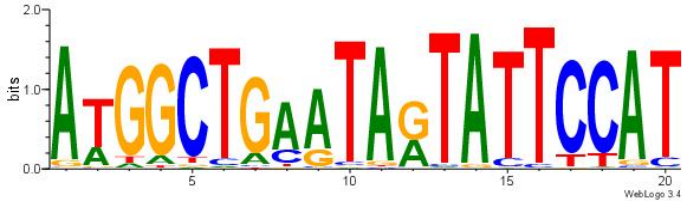

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.129603

Alignment:
CGAGCCTCCCCGAYGAGCGC
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

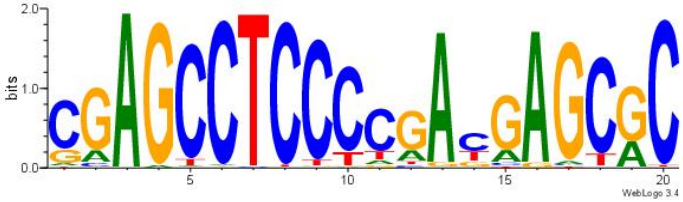

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

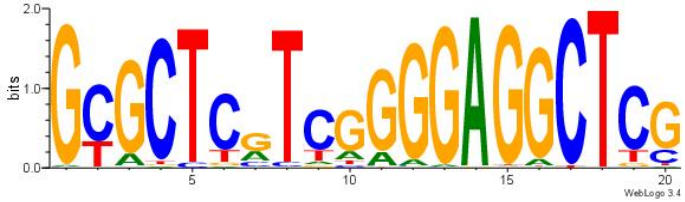

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130649

Alignment:
GCTCCACCCAGTTCGAGCTT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

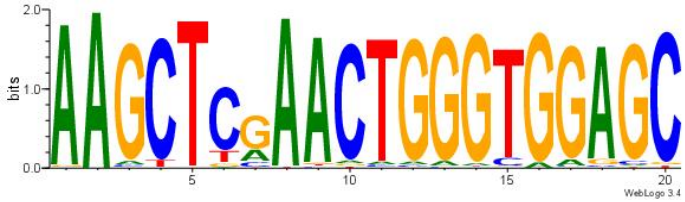

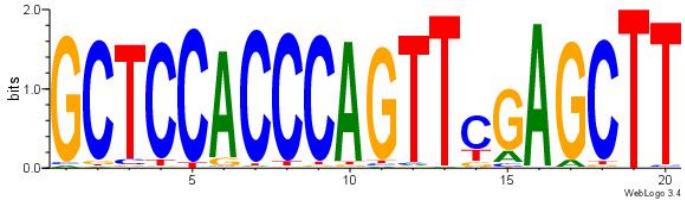

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131985

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

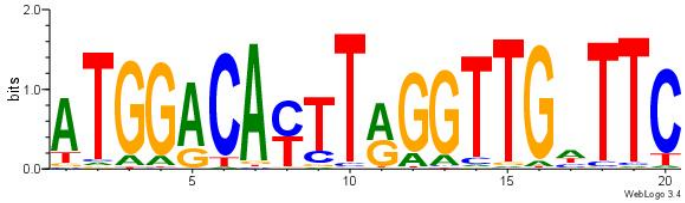

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

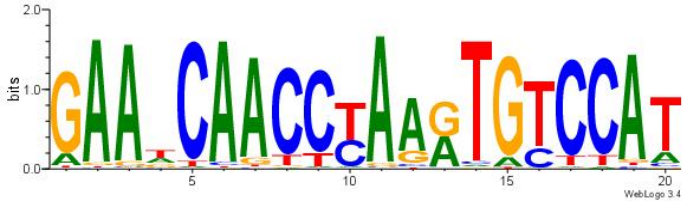

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13328

Alignment:

```
ATCTGACAGGAGGYRGAGCT
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

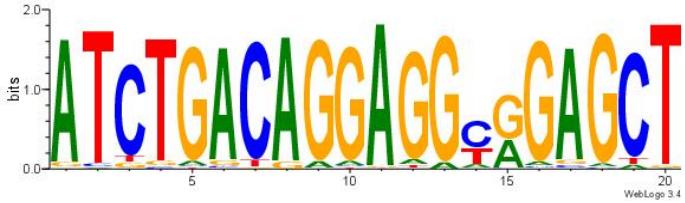

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

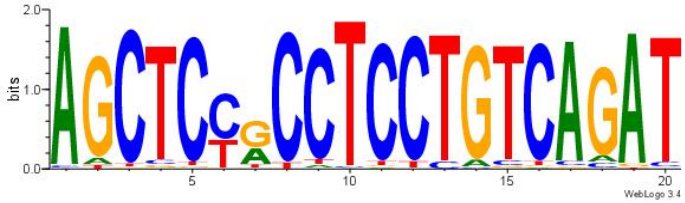

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.133398

Alignment:
AAAAGTCCACAGTCCAAAGT
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

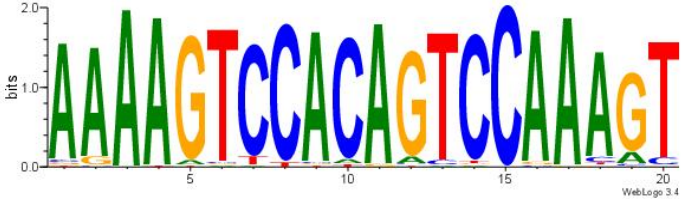

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

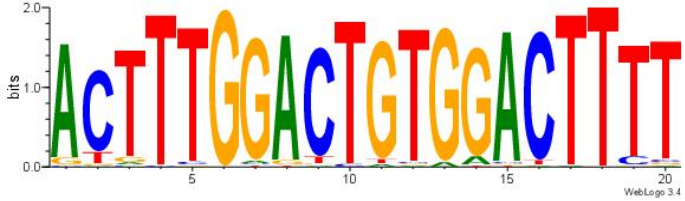

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136491

Alignment:
CTGGGCRACAGAGYRAGACY
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

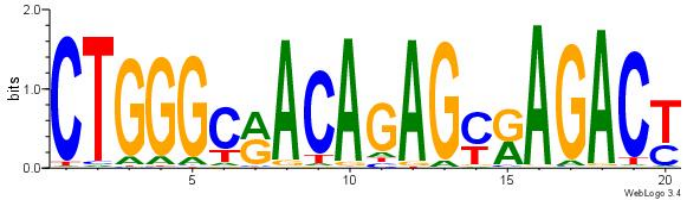

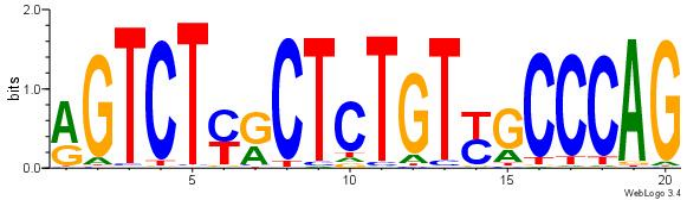

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137044

Alignment:

```
CGTCGCTCACGCTGGGAGCT
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

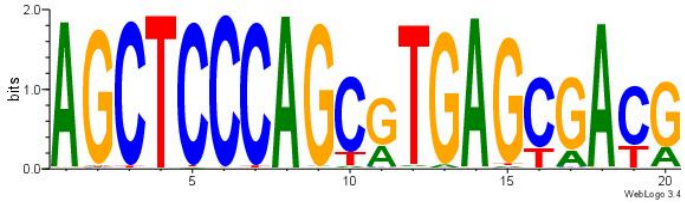

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

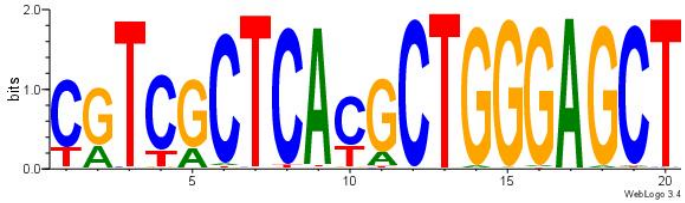

Dataset #:	1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137138

Alignment:
GTGGCCCTCTTCTCACAGCT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

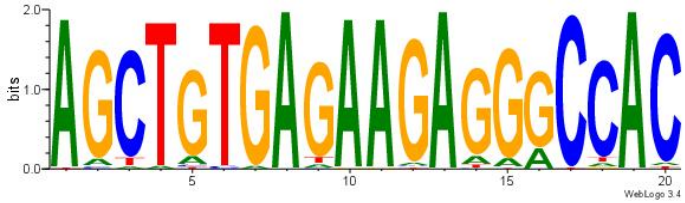

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

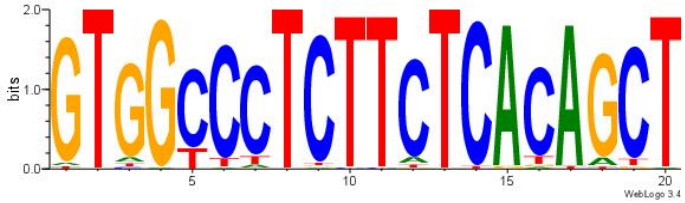

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137797

Alignment:
AGGTTTGTTACATAGGTAWA
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

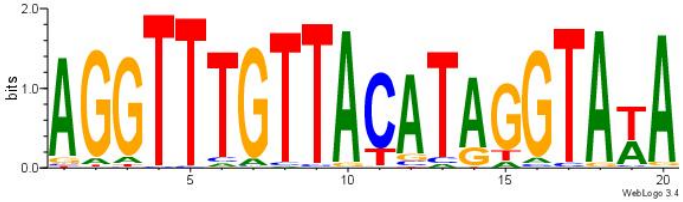

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

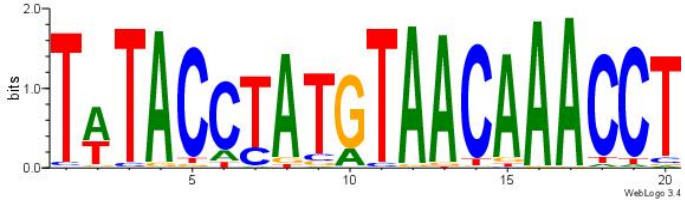

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.14006

Alignment:
CTTGCCCAAGGTCACACAGC
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

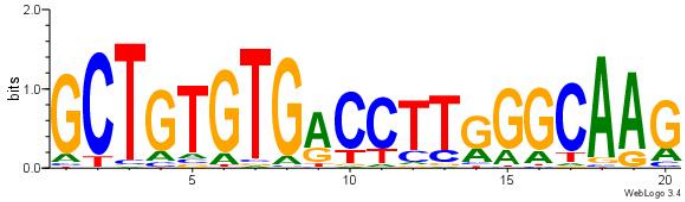

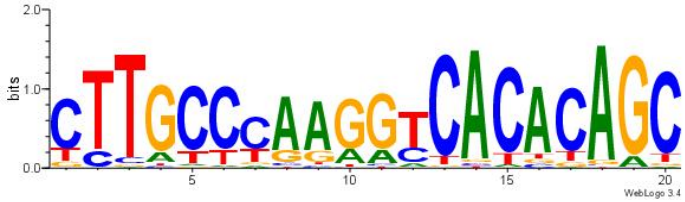

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140341

Alignment:

```
CCGCTGCACTGTGGGAGCCC
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

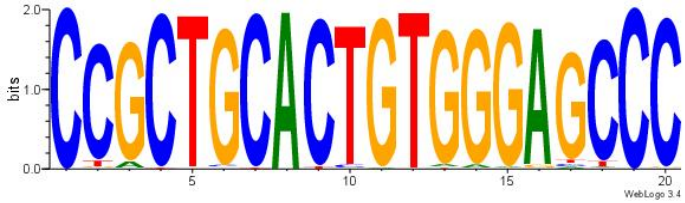

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

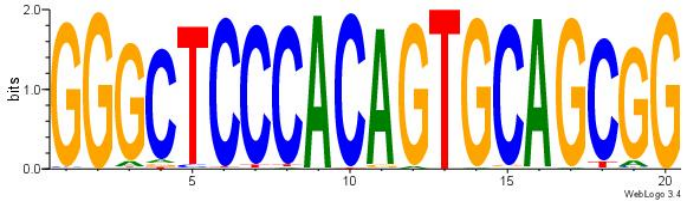

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140653

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

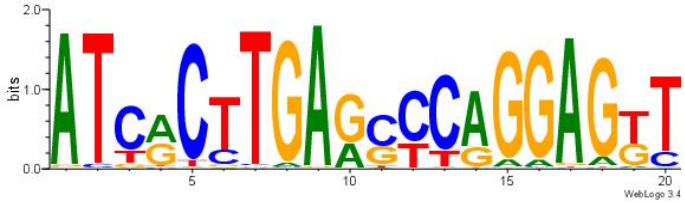

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

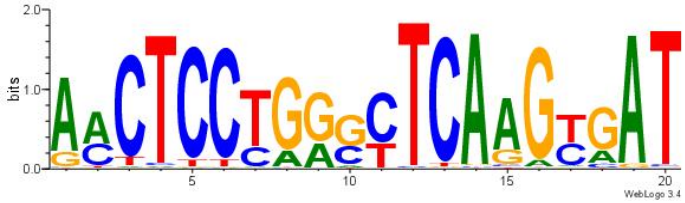

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.141779

Alignment:
AAATTAGGCCAATTAATAAC
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

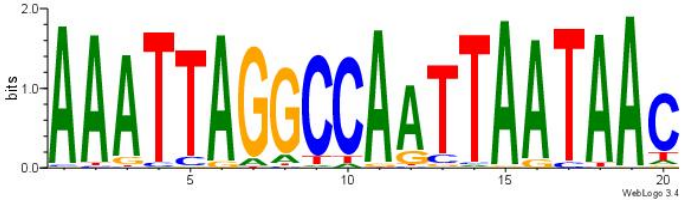

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142326

Alignment:
GTGTCKGGAGTTTGTTCCTT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

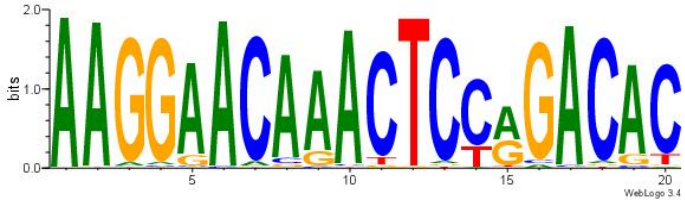

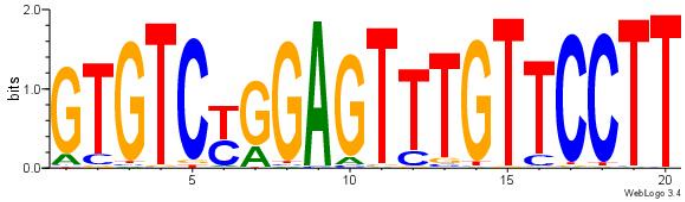

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144712

Alignment:

```
AGAGCCAAATCATGARTGAA
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

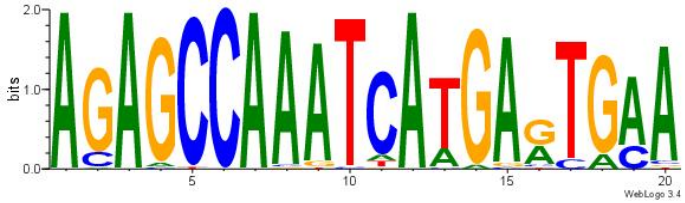

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

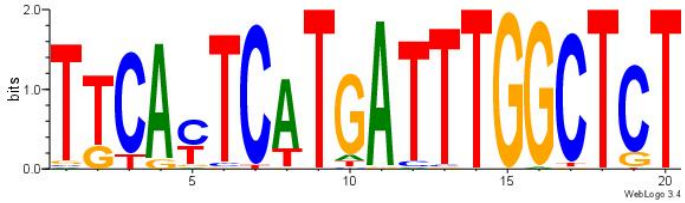

Dataset #:	1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14481

Alignment:
GGTTCATCTCACTAGGGAGT
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

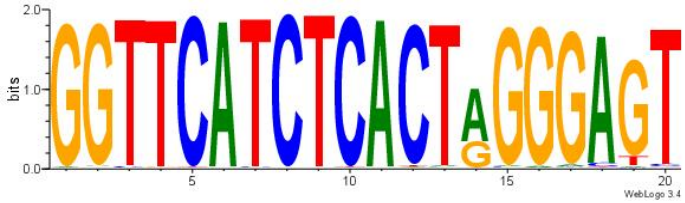

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

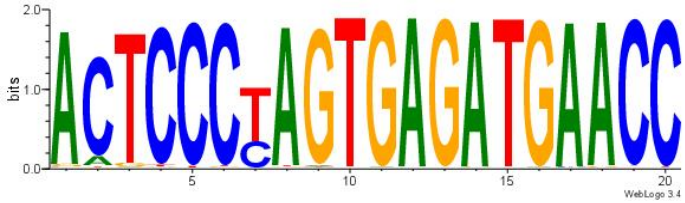

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145673

Alignment:
GGAGCCGGCTCCCTCAGCTT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

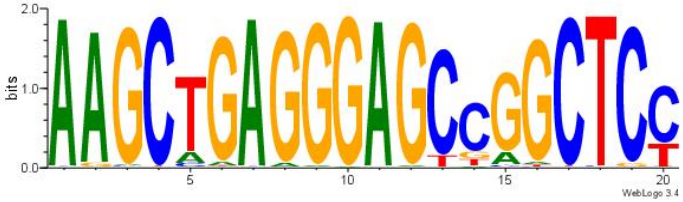

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

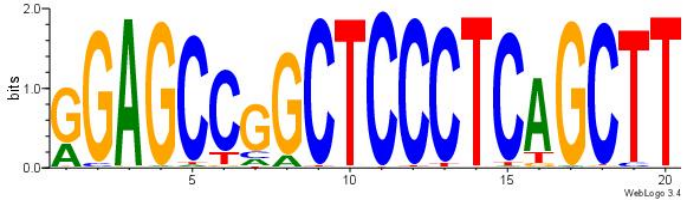

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146643

Alignment:
ATGTAACCAAAYACCACCTG
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

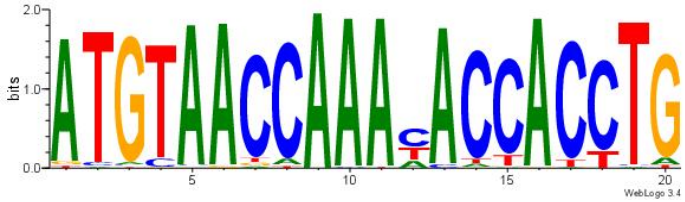

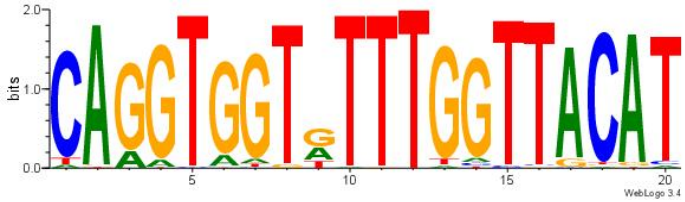

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147782

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

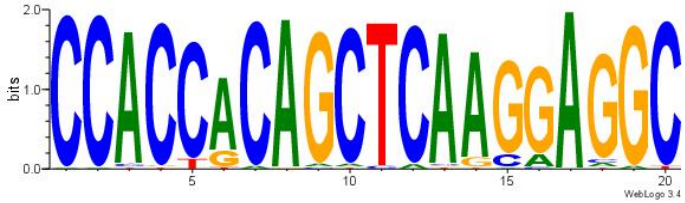

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

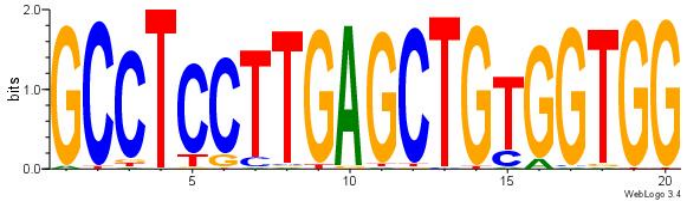

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148079

Alignment:

GGATCCACTGGGTGAAGCCA
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

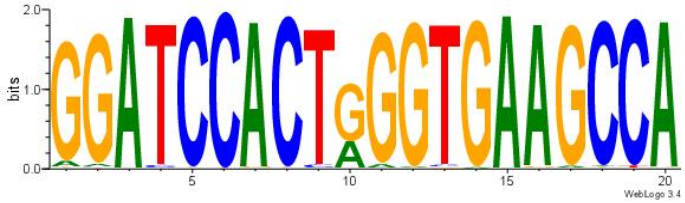

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

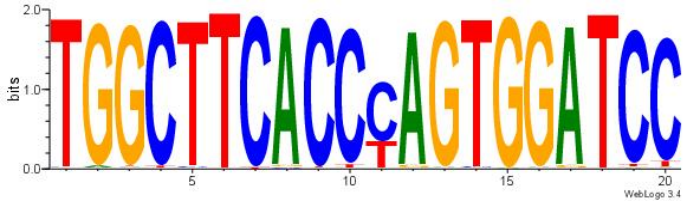

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148328

Alignment:
GTGCCAGGCACTGTKCTARG
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

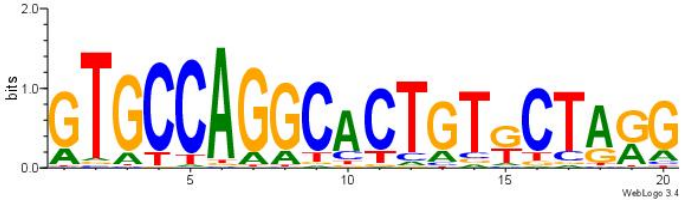

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

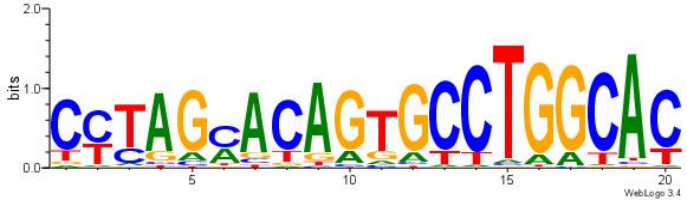

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149104

Alignment:
CTGGGCTCCTGAGTCTGGTG
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

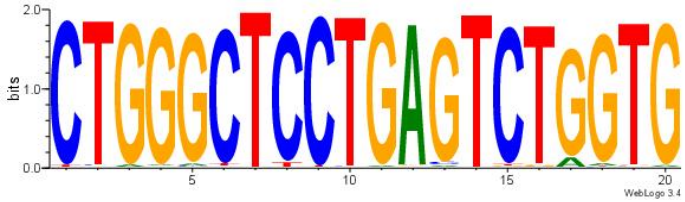

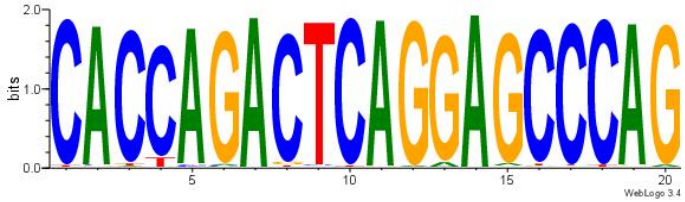

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149304

Alignment:

```
AATGAKATCATGTCYTTTGC
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

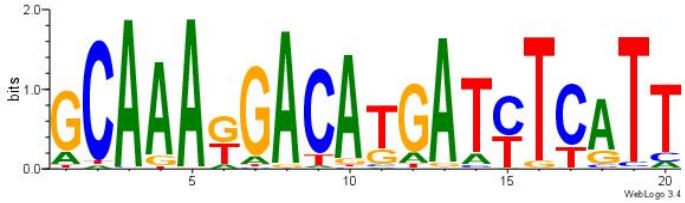

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

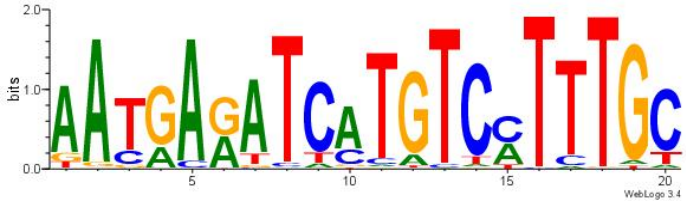

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149638

Alignment:

GGGAGGTGTCTCCCAGTCAG
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

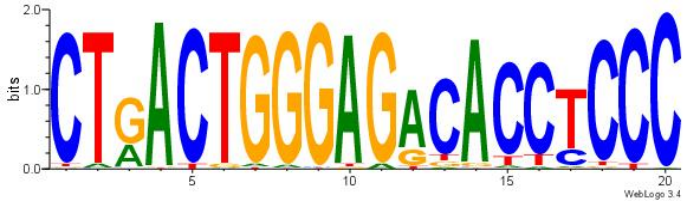

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

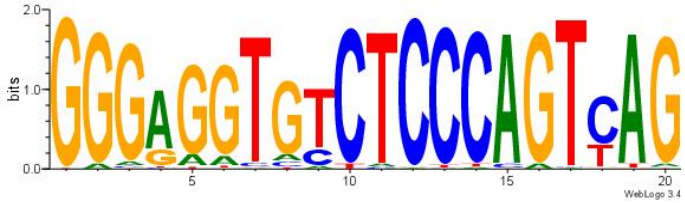

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150283

Alignment:
TYTGTCMTTTTGTGACTGGC
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

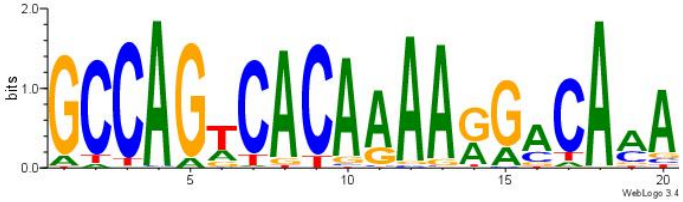

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

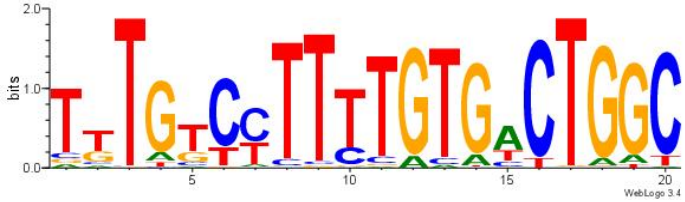

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151298

Alignment:
GTCTCWAMAAAAAAWAMAAA
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

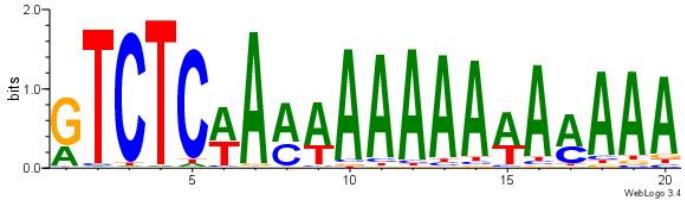

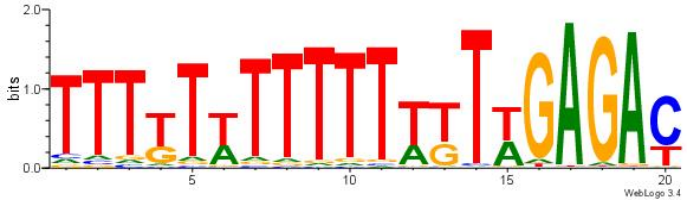

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153028

Alignment:
ATTGATMKCCAGGGTTGATT
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

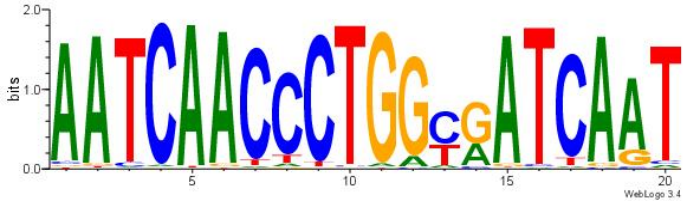

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

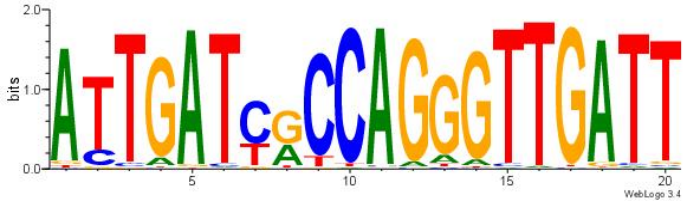

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153504

Alignment:

```
ACACATCACAAAGCAGTTTC
TTGTCCCACTGGAAGGTCTT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

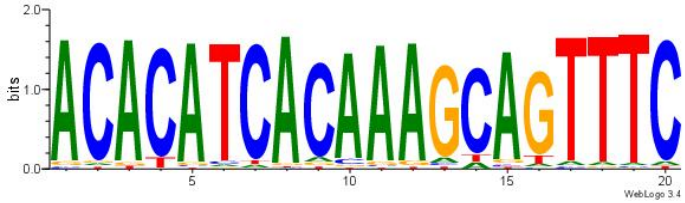

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

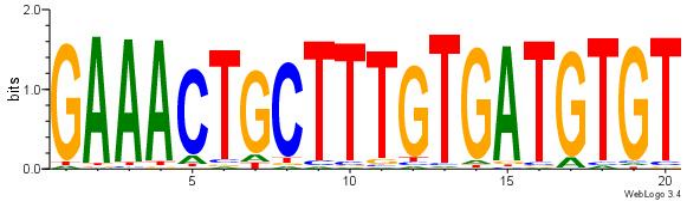

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.154063

Alignment:
TGGAGAACCTTTATGTCTAG
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

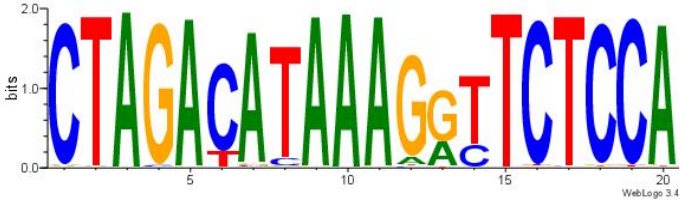

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

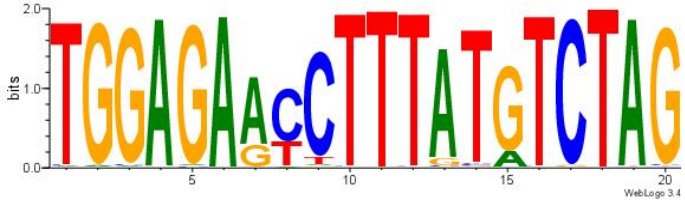

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154339

Alignment:
AWTKKTGGTTKCCAGKGGCT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

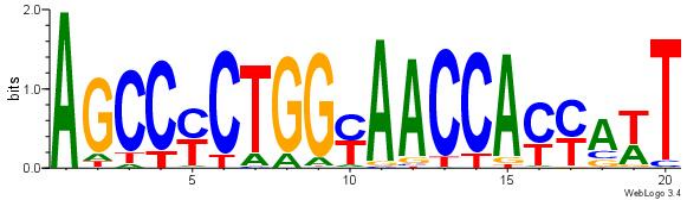

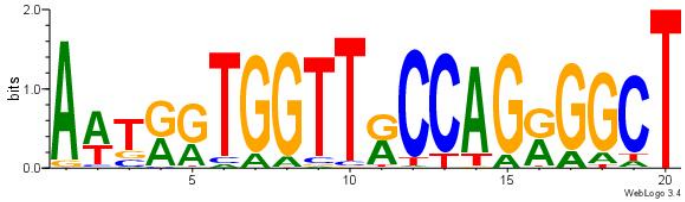

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155074

Alignment:

```
AGTAGGTGCTCARTAAATRB
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

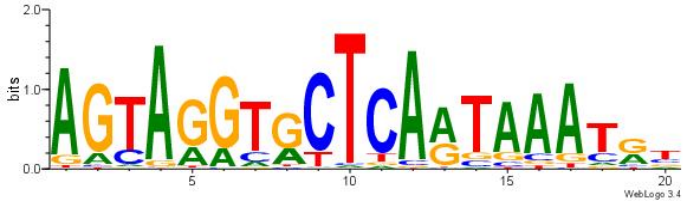

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

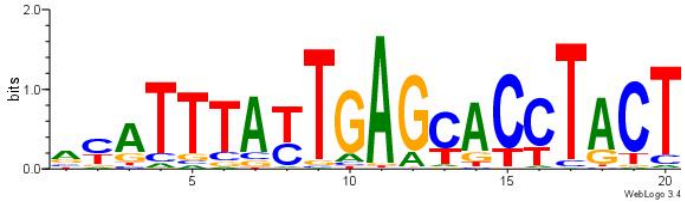

Dataset #: 1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155619

Alignment:

```
CAAGCCTSKGCAATGGCAGG
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

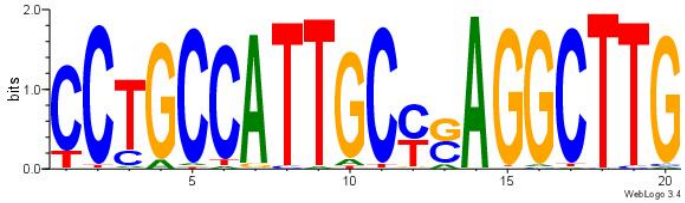

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

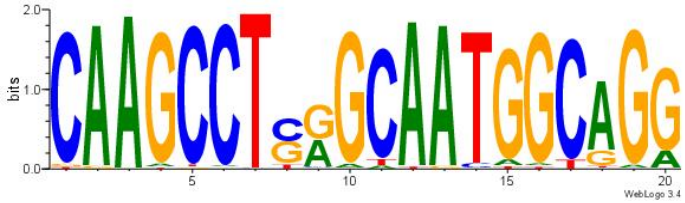

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157132

Alignment:
ACCKTCGCGGTGAGTGTTAC
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

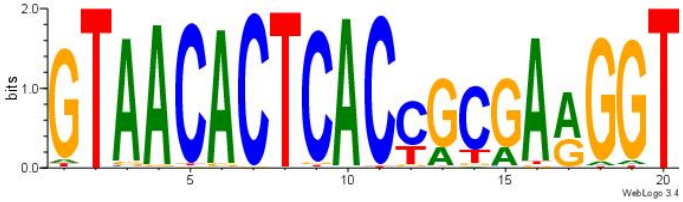

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

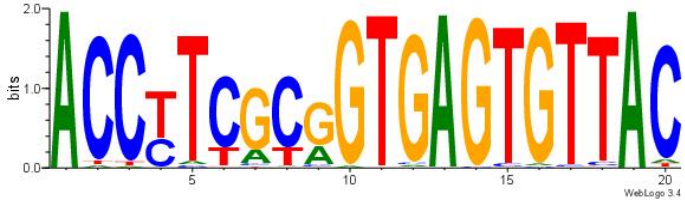

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157428

Alignment:
CTCCTGCCTCAGCCTCCCRA
AAGACCTTCCAGTGGGACAA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

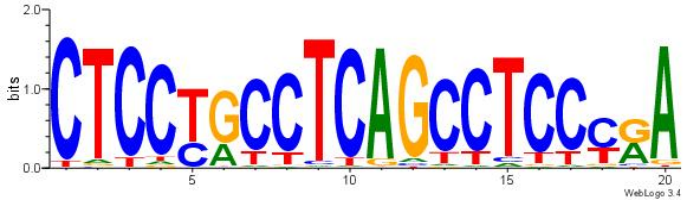

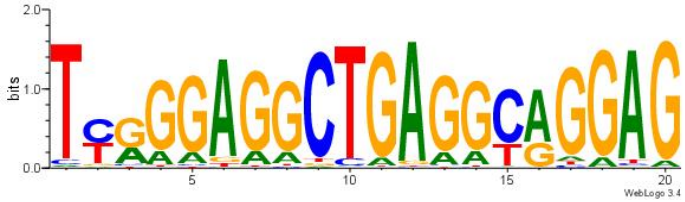

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157496

Alignment:

```
CATTCTGGGGTCTGGAGGAY
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

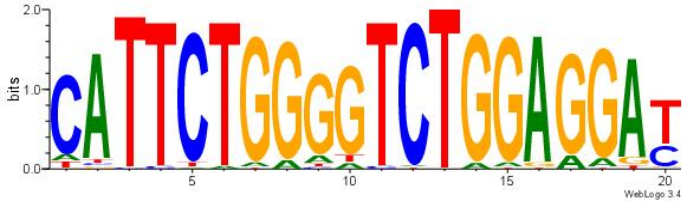

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

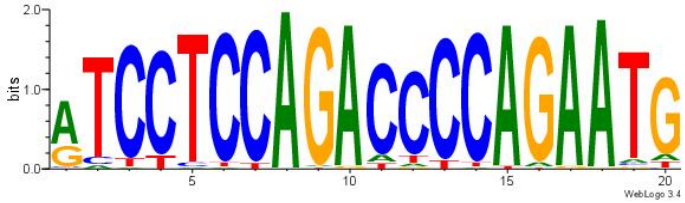

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15779

Alignment:
GAGAGAGAGAGAGAGAGAGA
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

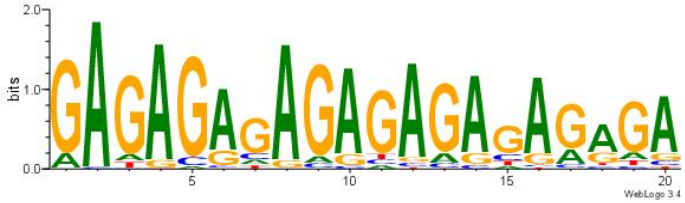

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

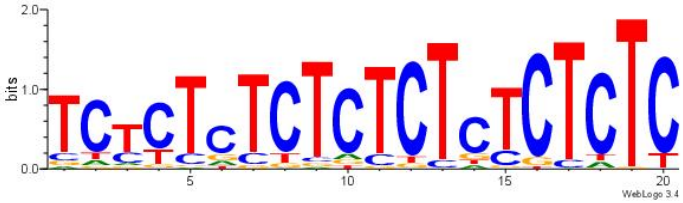

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158453

Alignment:
CTGGGTCCCCCAGCAGTGCC
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

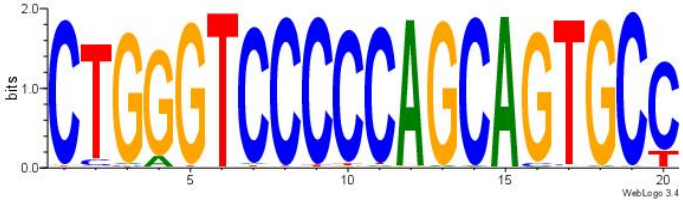

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

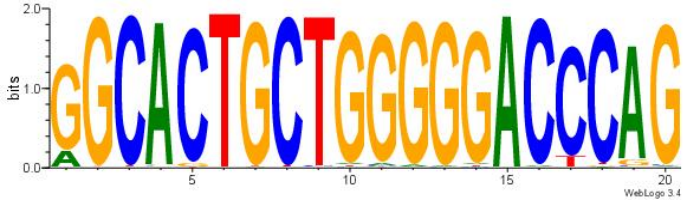

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.158809

Alignment:
GCCTCTCCCTCCACACCTCC
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

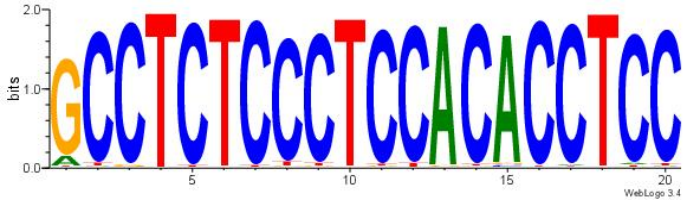

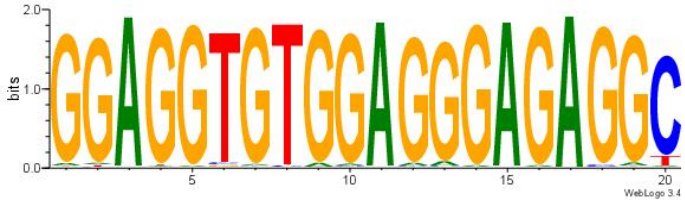

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15912

Alignment:
AGTGAGAACATRYRRTRTTT
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

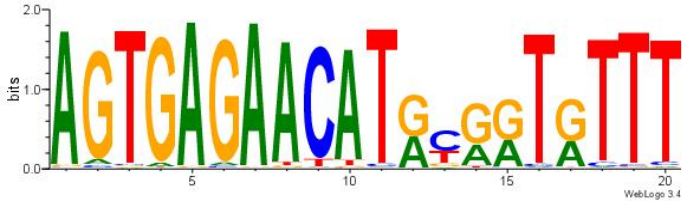

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

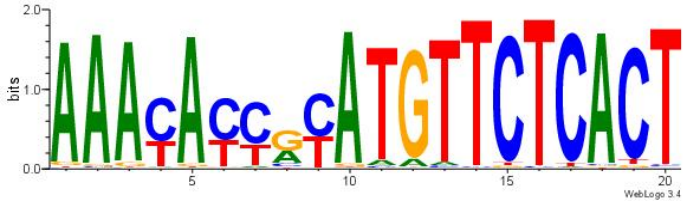

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.163491

Alignment:

```
CAAGTTGACACATAAAATTA
AAGACCTTCCAGTGGGACAA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

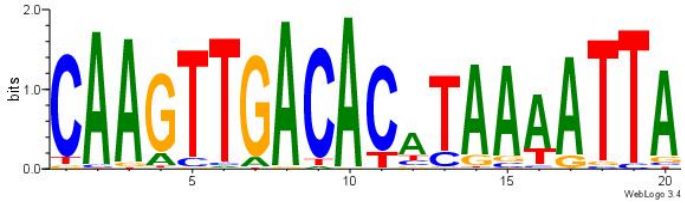

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

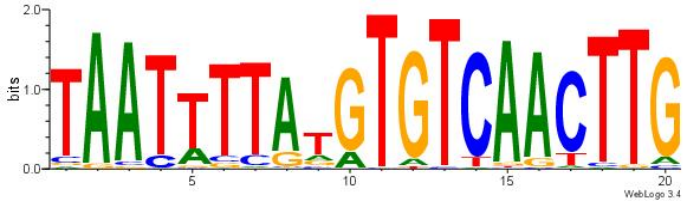

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.163685

Alignment:
AAATTACCCAGTCTCAGGTA
TTGTCCCACTGGAAGGTCTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

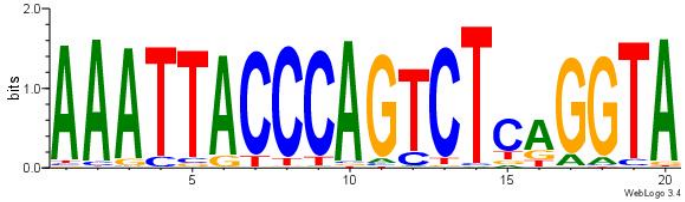

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

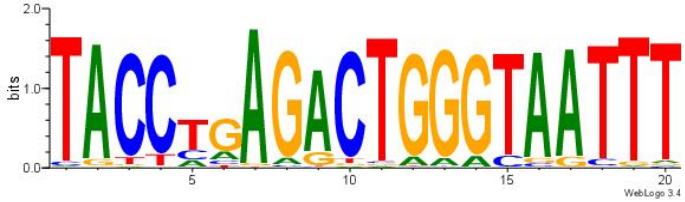

Dataset #: 1 Motif ID: 293 Motif name: Motif 293

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

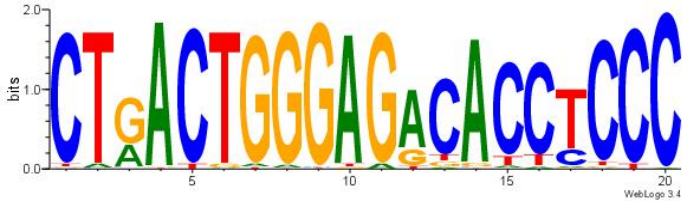

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

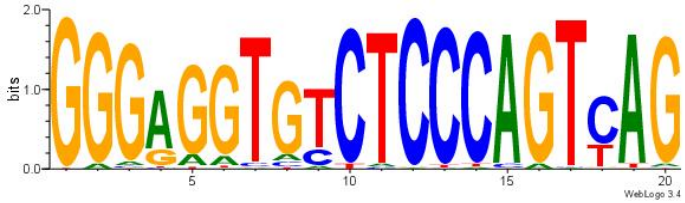

Best Matches for Motif ID 293 (Highest to Lowest)

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106264

Alignment:

```
CTCAGTGTTAATCTCCTGTC
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

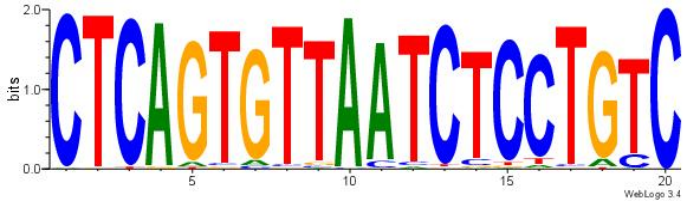

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

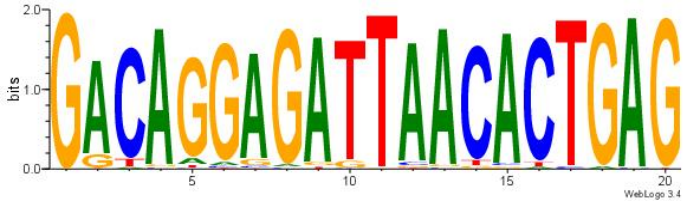

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115344

Alignment:

GAAAGGGAACTCCCTGACCC
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

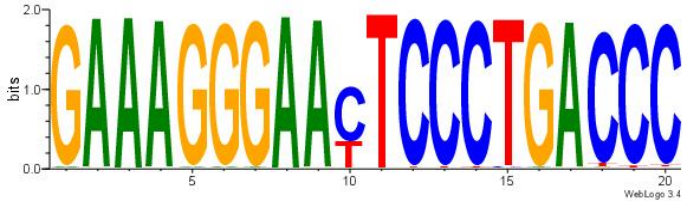

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

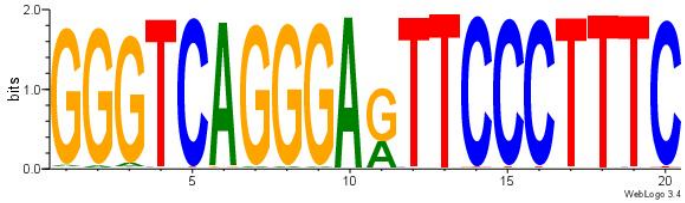

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.123537

Alignment:
CCCMKGGCACCCTCAGTCCT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

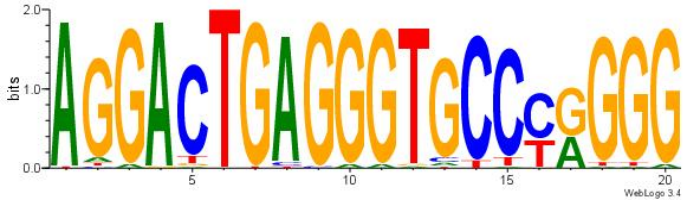

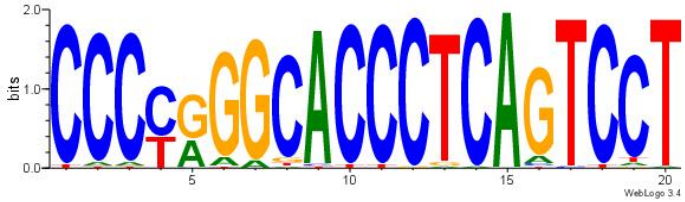

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126725

Alignment:

```
CTTGCCCAAGGTCACACAGC
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

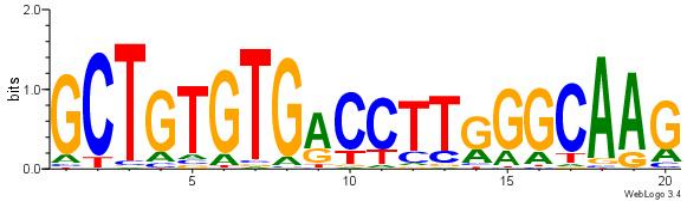

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

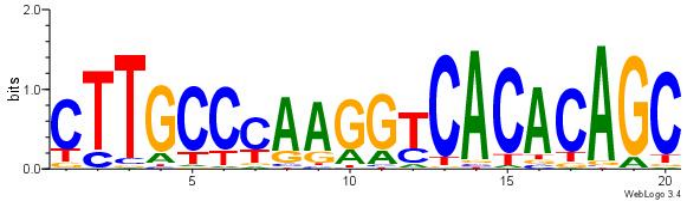

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133644

Alignment:

```
AGAAATCGAGCRCAGCGCCG
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

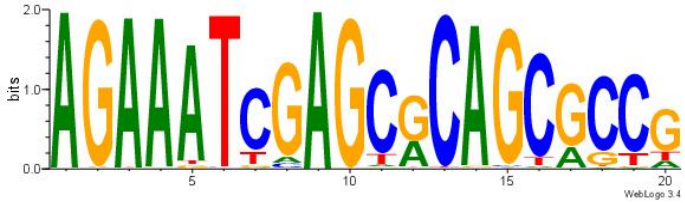

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

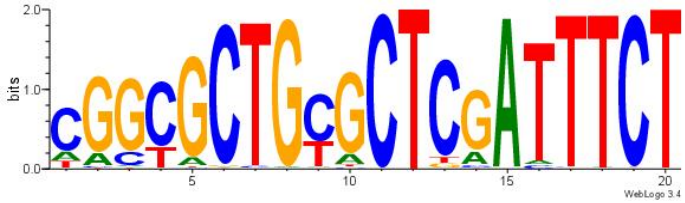

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.133729

Alignment:
TCTCTCTCTCTCTCTCTCTC
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

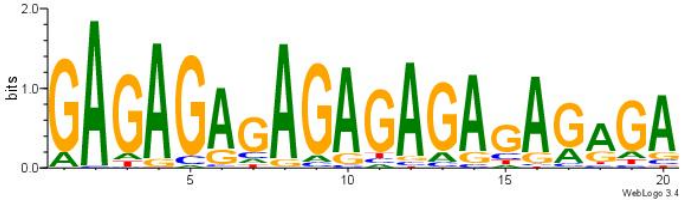

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

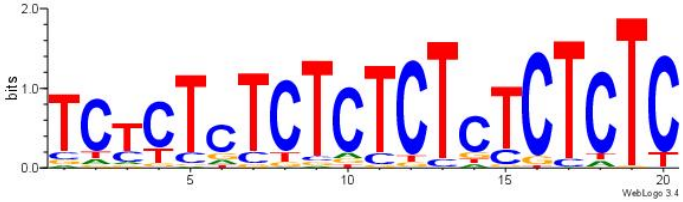

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13528

Alignment:
ATGATCCAGCAATYCCACTH
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

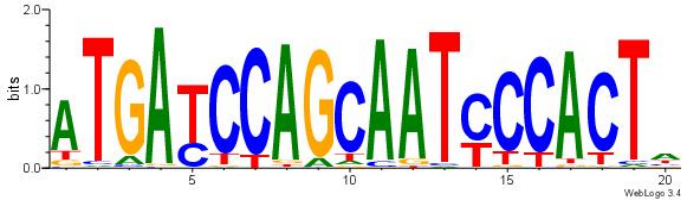

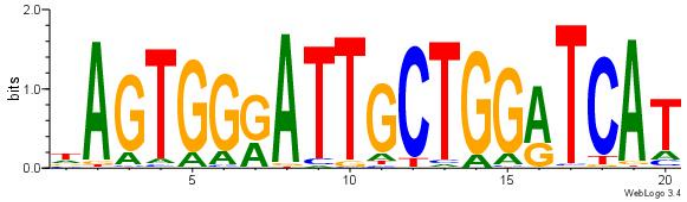

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136336

Alignment:
CMTAGYACAGTGCCTGGCAC
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

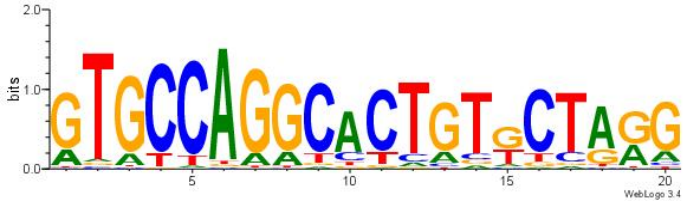

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

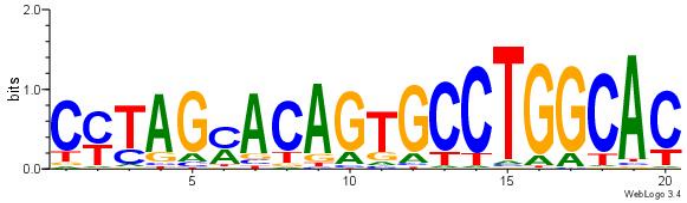

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138403

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

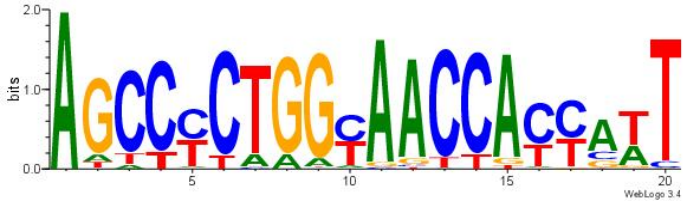

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

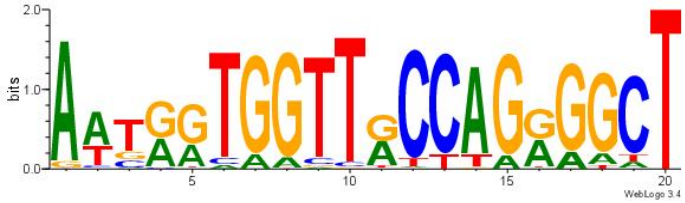

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.141821

Alignment:
CTGGGCRACAGAGYRAGACY
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

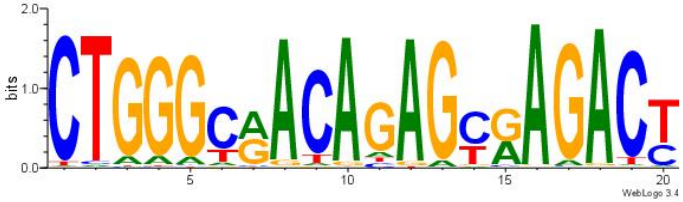

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

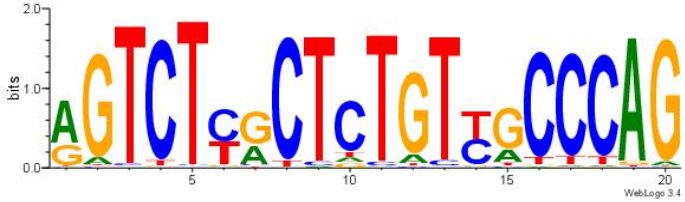

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.143366

Alignment:
AGTAGGTGCTCARTAAATRB
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

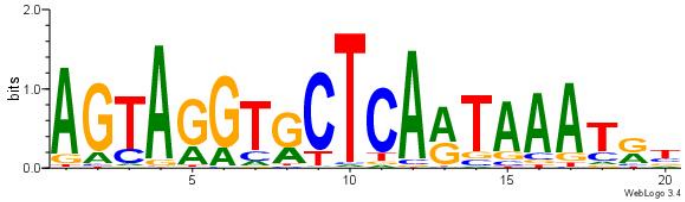

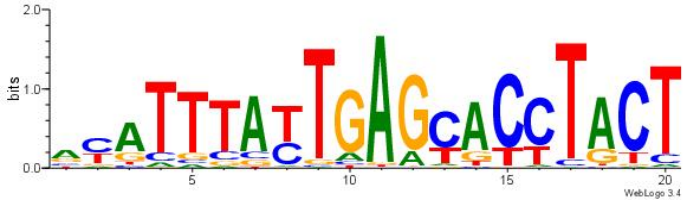

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143995

Alignment:
ARCTCCTGKSCTCAAGKGAT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

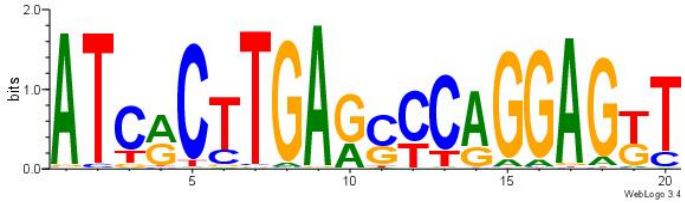

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

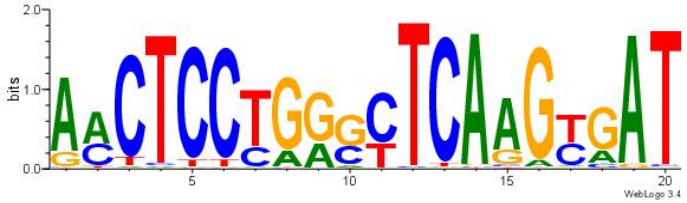

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145224

Alignment:

```
CTAGACATAAAGGTTCTCCA
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

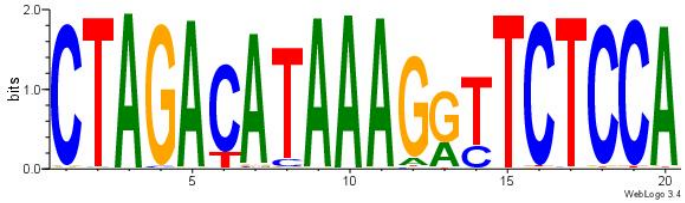

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

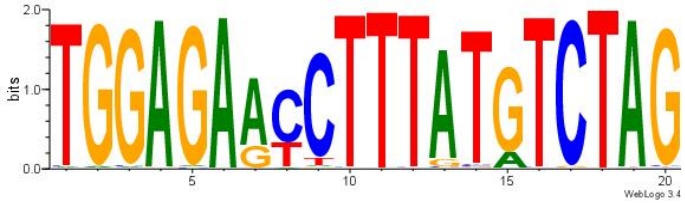

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145641

Alignment:
GGGATTGTAAATACACCAAT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

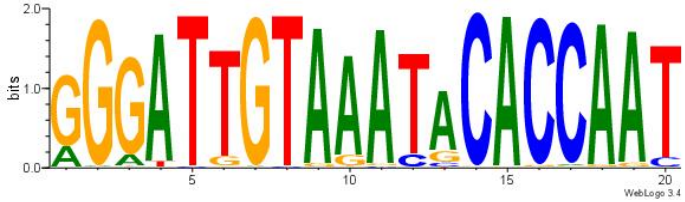

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14616

Alignment:
ATGGCTGAATAKTATTCCAT
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

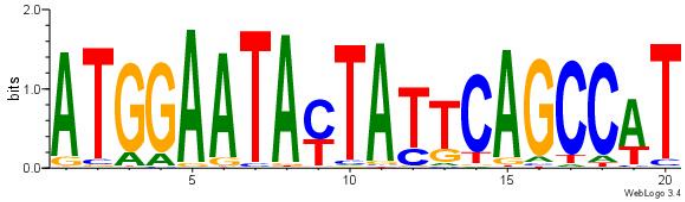

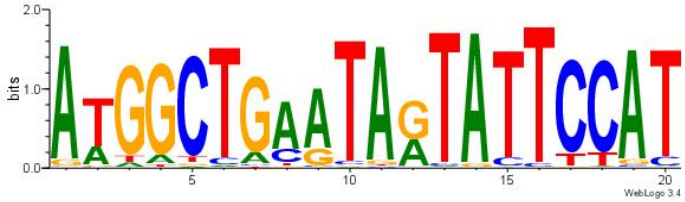

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14646

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
GGGAGGTGTCTCCCAGTCAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

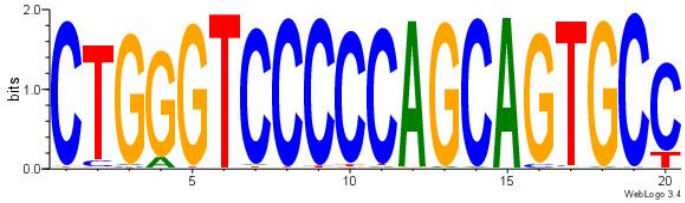

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

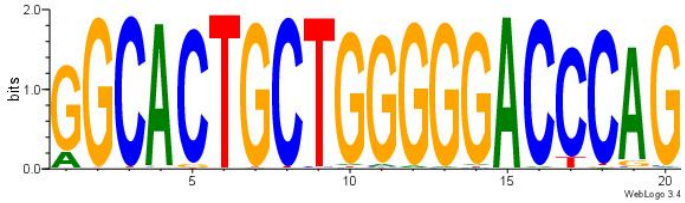

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14655

Alignment:

```
CAACATGGATGRARCTGGAG
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

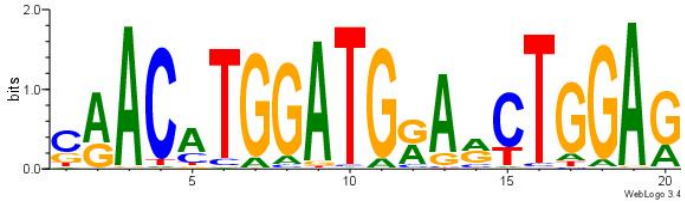

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

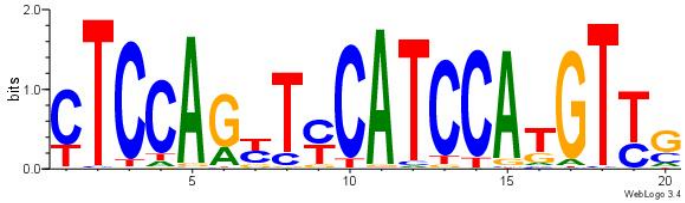

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147461

Alignment:
GGTTCATCTCACTAGGGAGT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

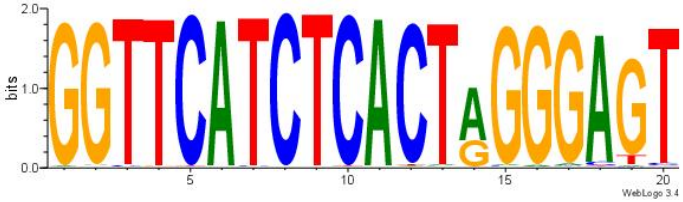

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

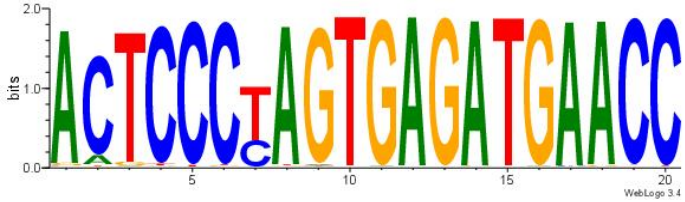

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148252

Alignment:
KKCACCTTGATCTTGGACTT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

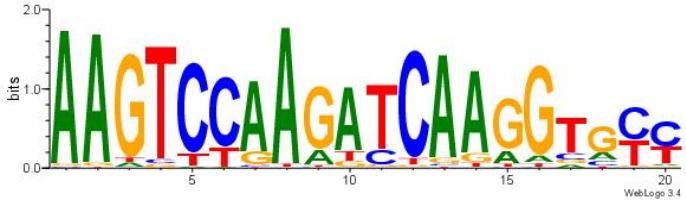

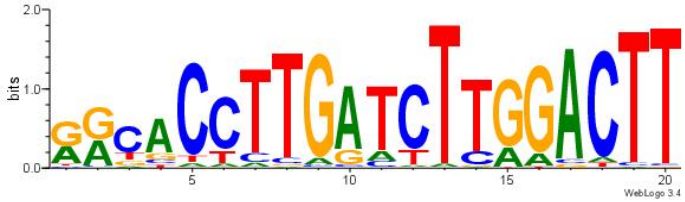

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148899

Alignment:
GTKTMTATMTACCACATTTT
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

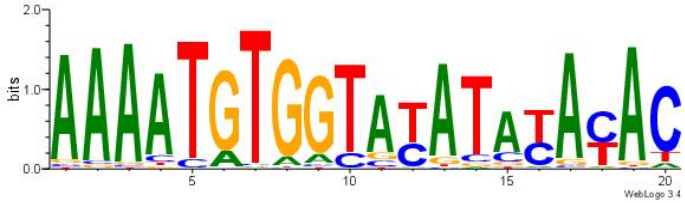

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

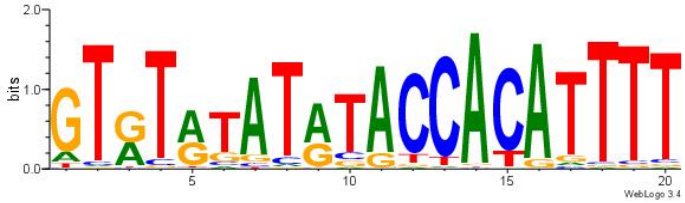

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150573

Alignment:
MTCCTCCAGACCCCAGAATG
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

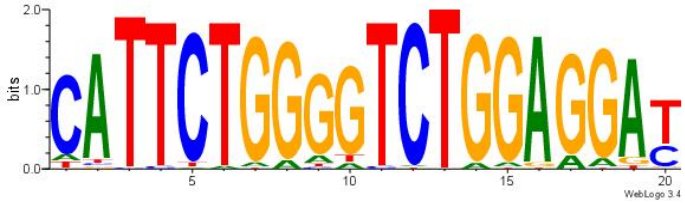

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

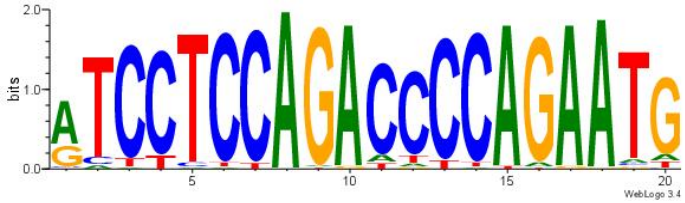

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150991

Alignment:
TTGTCCCACTGGAAGGTCTT
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

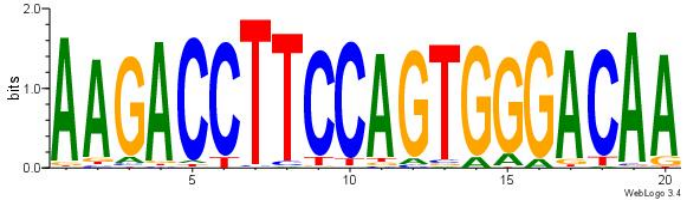

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

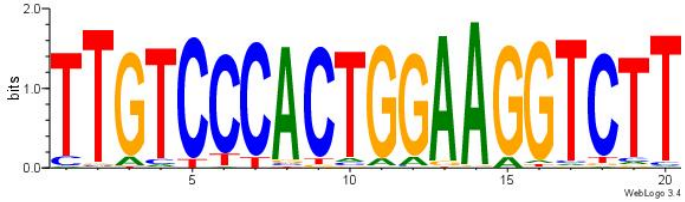

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.153582

Alignment:
CAAGTTGACACATAAAATTA
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

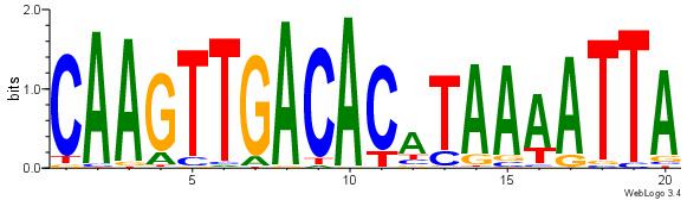

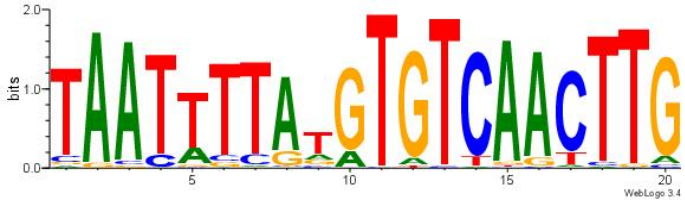

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154277

Alignment:

```
AAGGAACAAACTCCRGACAC
GGGAGGTGTCTCCCAGTCAG
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

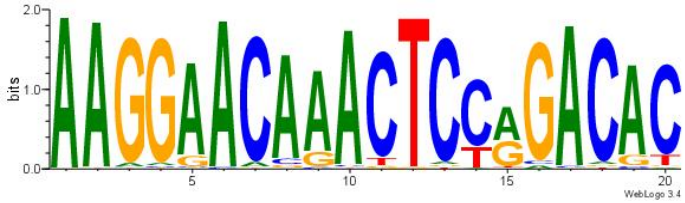

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

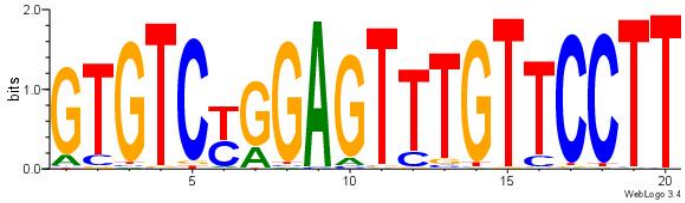

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155986

Alignment:
TWTACCTATGTAACAAACCT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

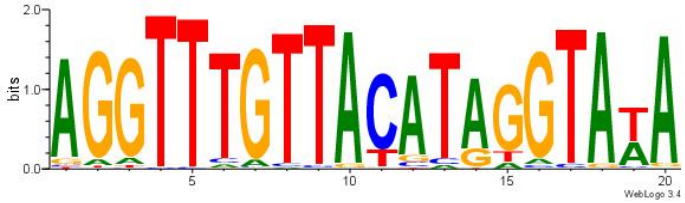

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

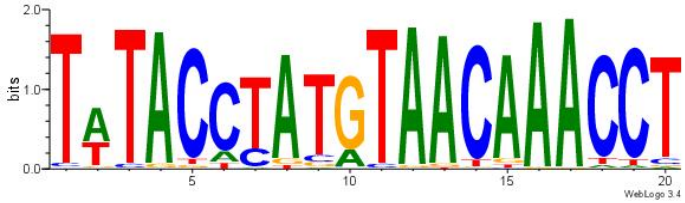

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156781

Alignment:
GGCATCACGGATCCTACCAA
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

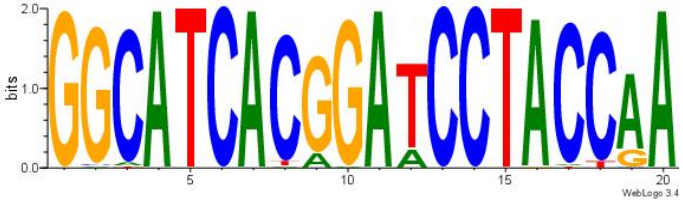

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

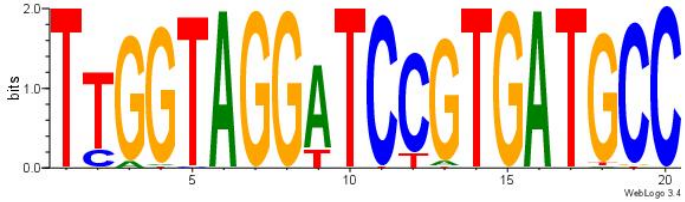

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157152

Alignment:
TGCTGGAGGTCCACTCCAGA
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

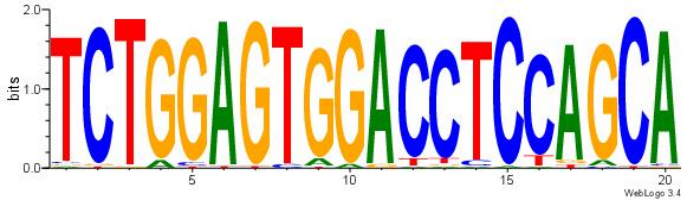

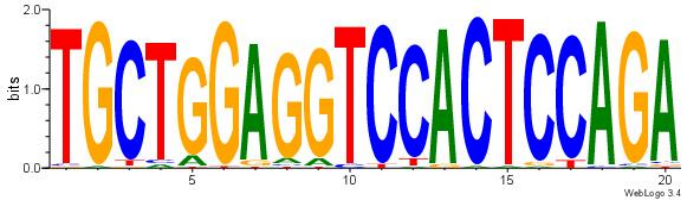

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157225

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

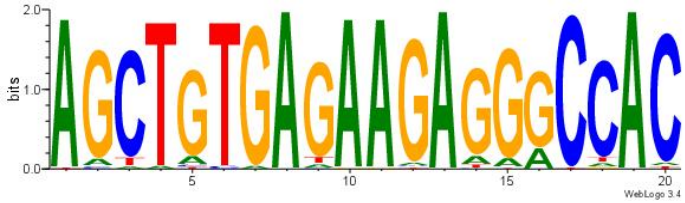

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

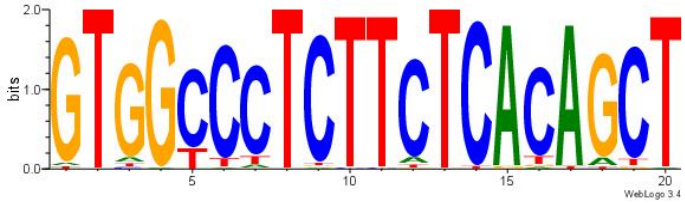

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15752

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
GGGAGGTGTCTCCCAGTCAG
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

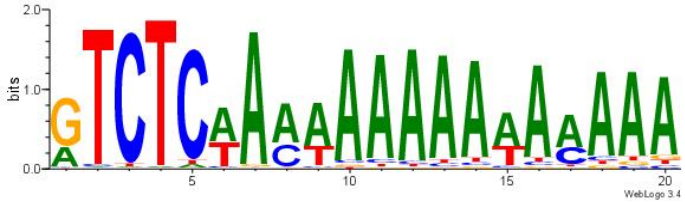

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

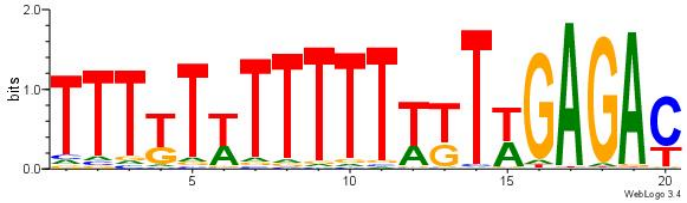

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157613

Alignment:
TCCAAATGGGAGAAATTGGC
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

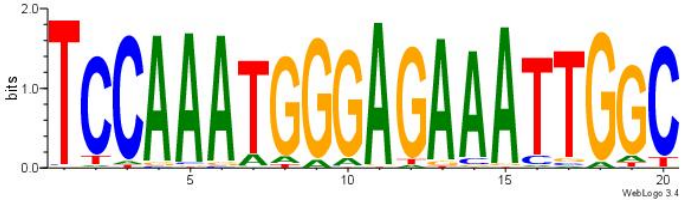

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

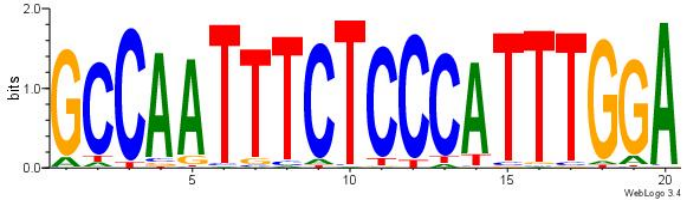

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157758

Alignment:
TMGGGAGGCTGAGGCAGGAG
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

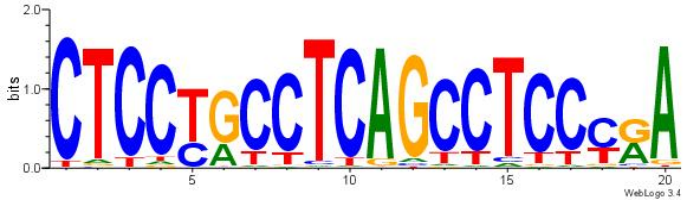

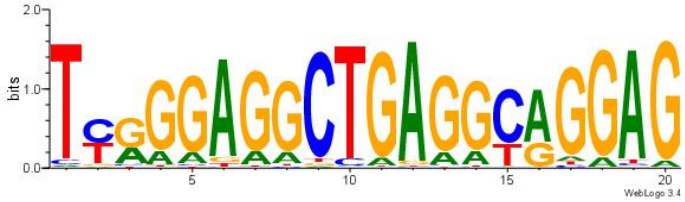

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159066

Alignment:
MGGGATATAATCTCCTGGTG
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

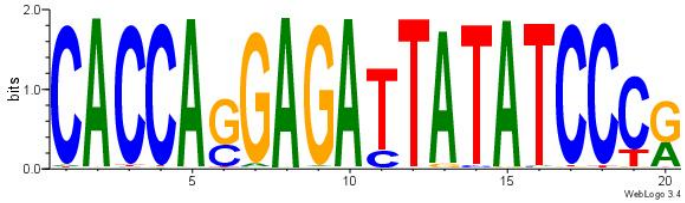

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

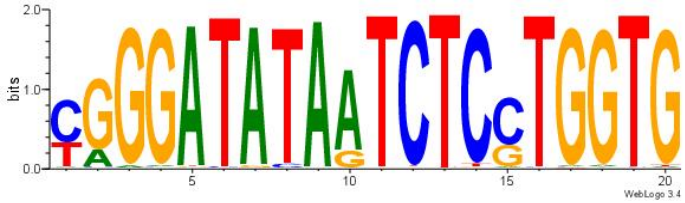

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159068

Alignment:
ACTGTCTTCCACCTCCACAT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

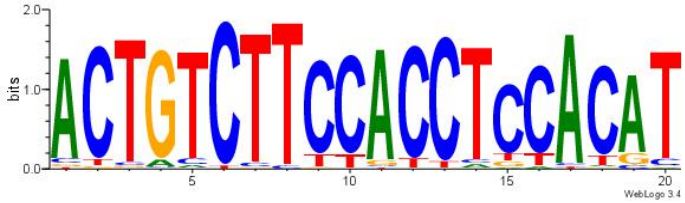

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

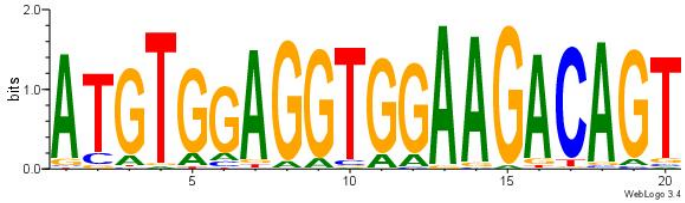

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.1598

Alignment:
AAAGCTGGAGCTATTATCTA
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

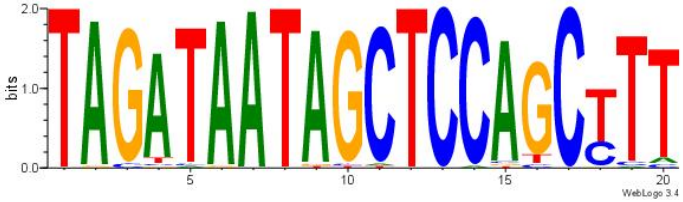

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

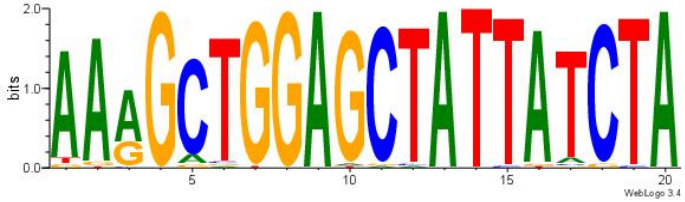

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159974

Alignment:
CRTGAGCCACYGYRCCYGGC
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

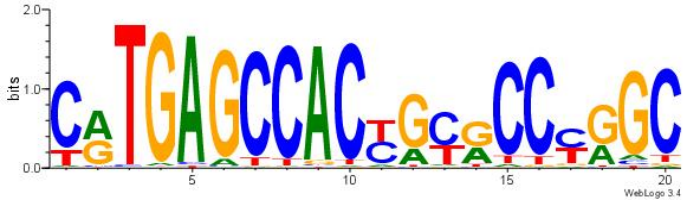

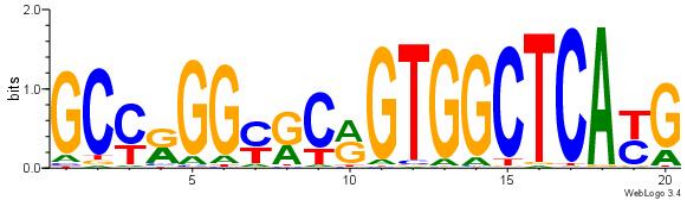

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160619

Alignment:

```
AAGCAGGGCGAGGCATTGCC
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

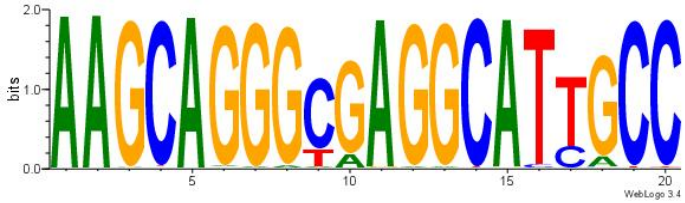

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

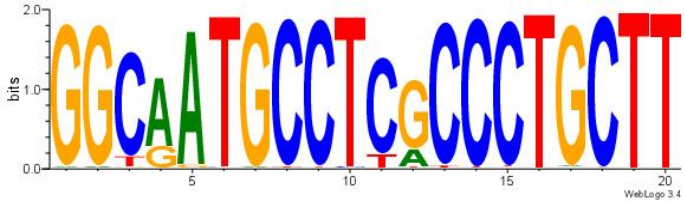

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161122

Alignment:

GGAGCCGGCTCCCTCAGCTT

CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

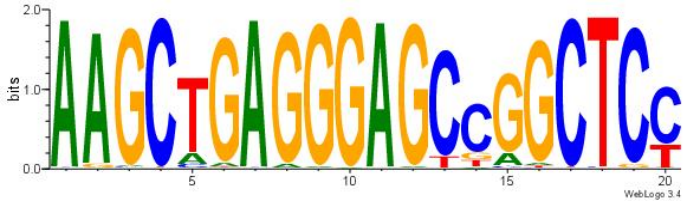

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

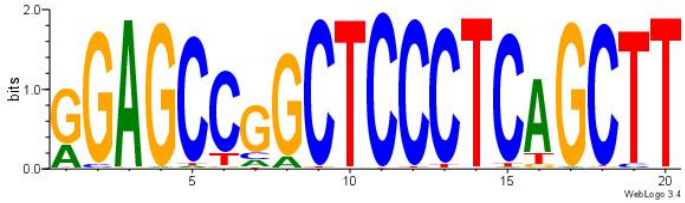

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161871

Alignment:
CGTCGCTCACGCTGGGAGCT
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

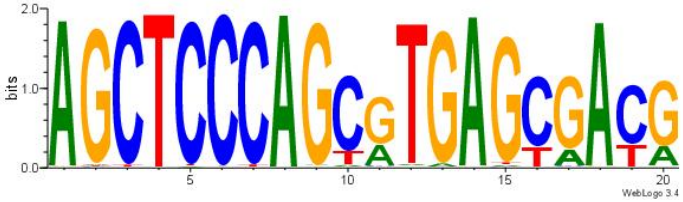

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

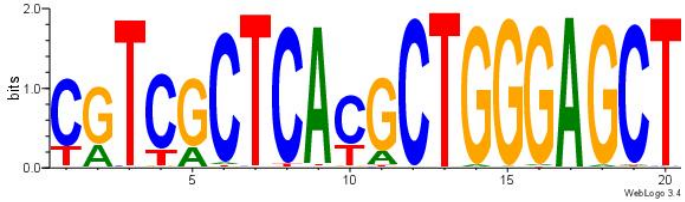

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162004

Alignment:
CCCGAAGCTGCRYRCTCGGT
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

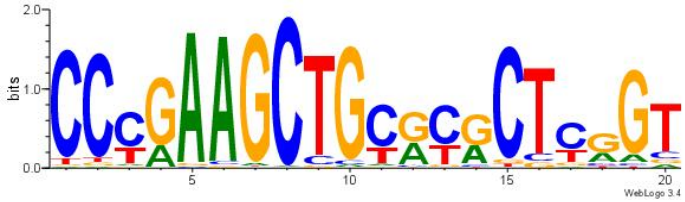

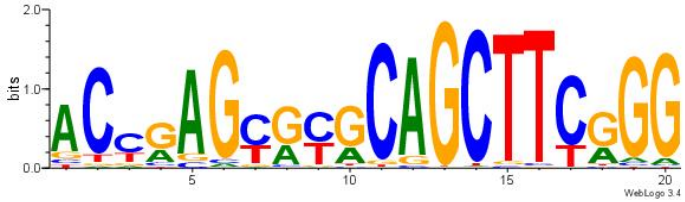

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162216

Alignment:
GGGCTCCCACAGTGCAGCGG
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

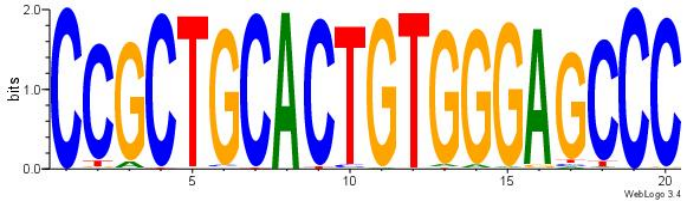

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

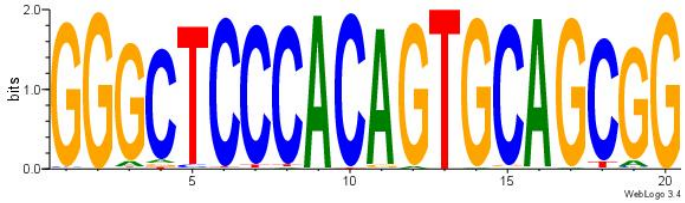

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163611

Alignment:

```
CTGGCCCTCAATGGTTAAAC
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

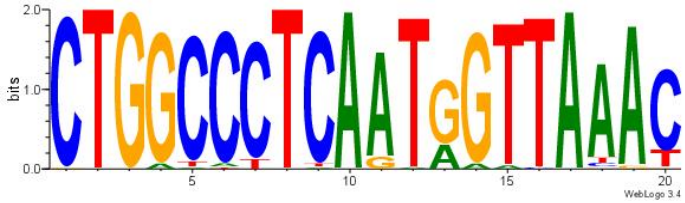

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

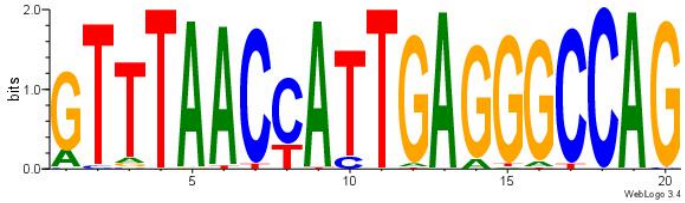

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.163795

Alignment:
GCAAAKGACATGATYTCATT
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

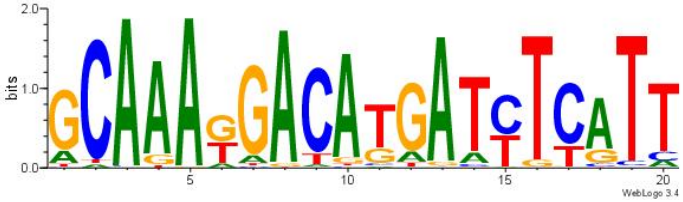

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

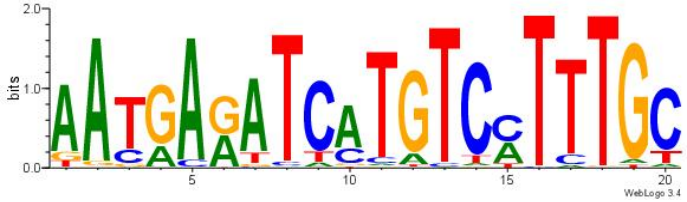

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164843

Alignment:
CAGCTACTCKTATACCCTTG
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

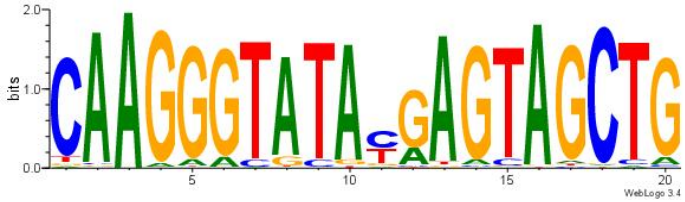

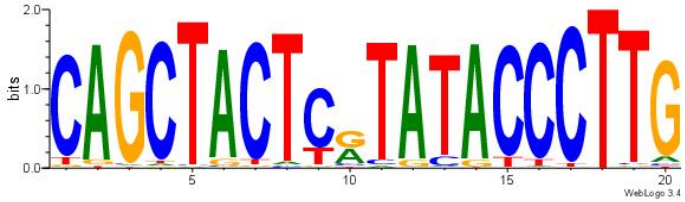

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165455

Alignment:

```
AAATTAGGCCAATTAATAAC
GGGAGGTGTCTCCCAGTCAG
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

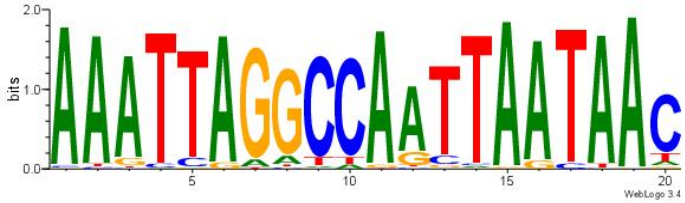

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165749

Alignment:

```
GGATTTMKGACTTGCATGGG
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

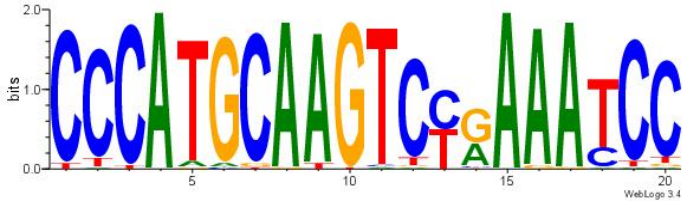

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

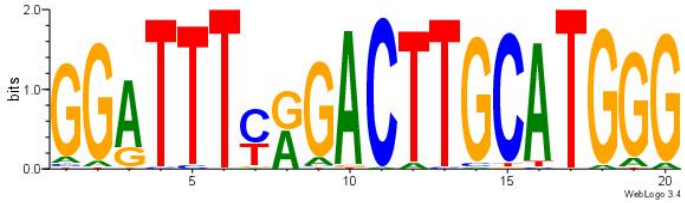

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.166404

Alignment:
CGCGGCGCTTGCGGGCCAGC
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

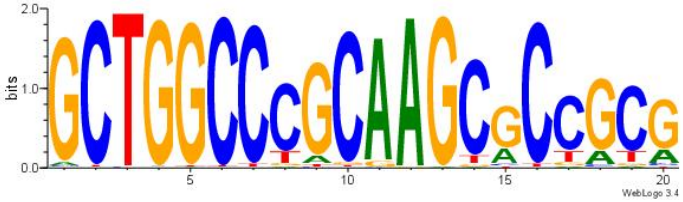

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

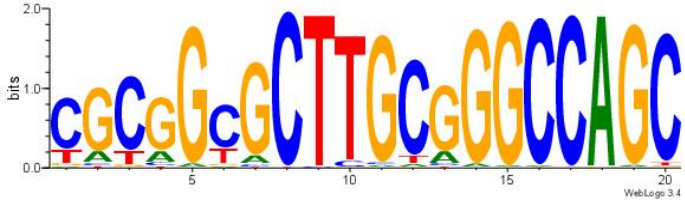

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.166608

Alignment:
CACCAGACTCAGGAGCCCAG
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

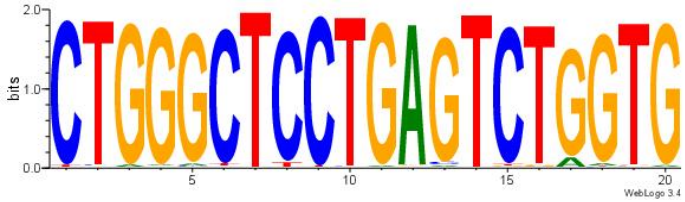

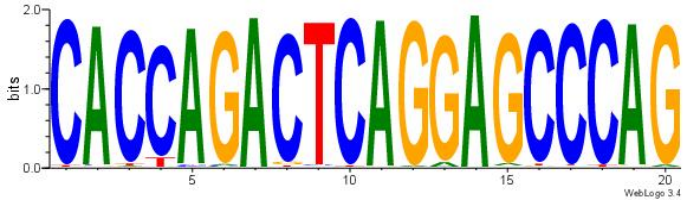

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168148

Alignment:

```
AAAATCACAAGCATTCCTAT
CTGACTGGGAGACACCTCCC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

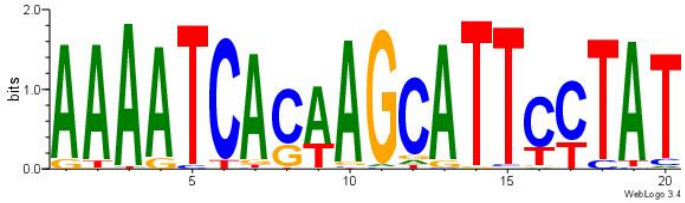

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

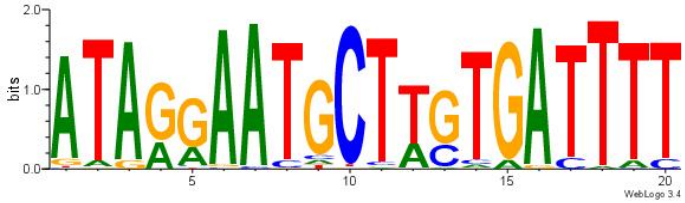

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168388

Alignment:
AGGTCCTTCAGGAGGTATTC
CTGACTGGGAGACACCTCCC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

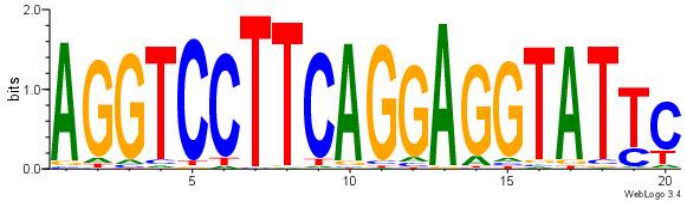

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

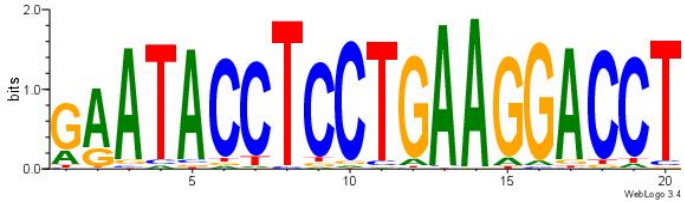

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.168865

Alignment:
GCCTCCTTGAGCTGTGGTGG
GGGAGGTGTCTCCCAGTCAG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

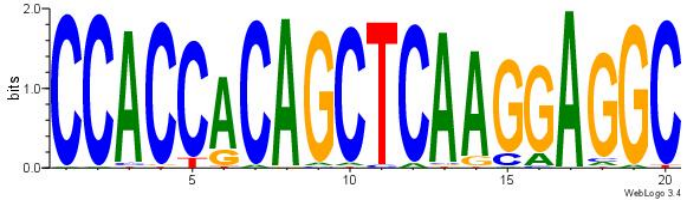

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

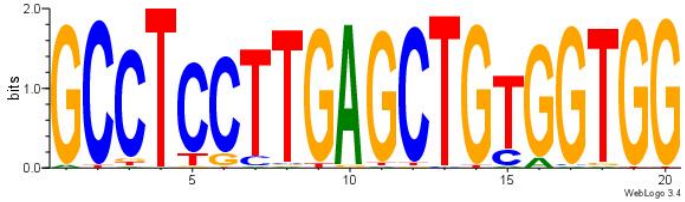

Dataset #: 1 Motif ID: 294 Motif name: Motif 294

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

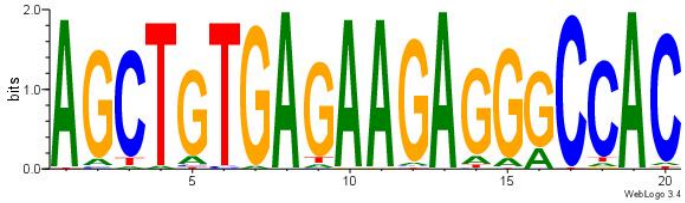

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

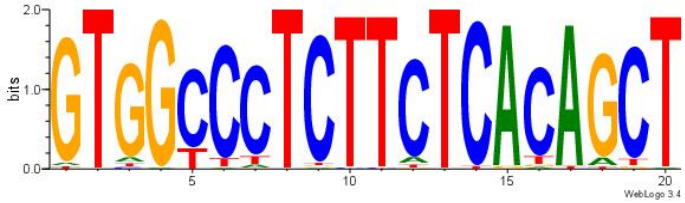

Best Matches for Motif ID 294 (Highest to Lowest)

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.113168

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

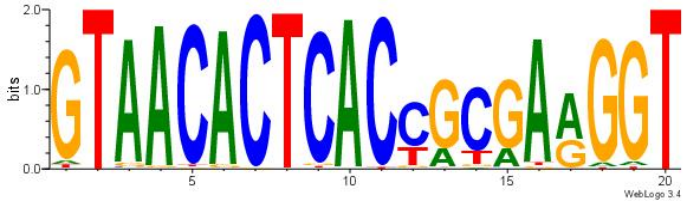

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

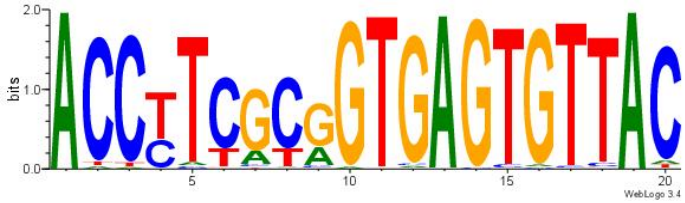

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119835

Alignment:

GCCAGTCACAAAARGACAMA
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

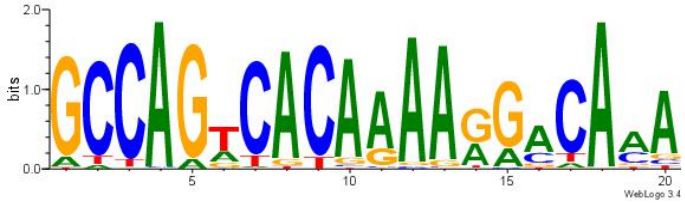

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

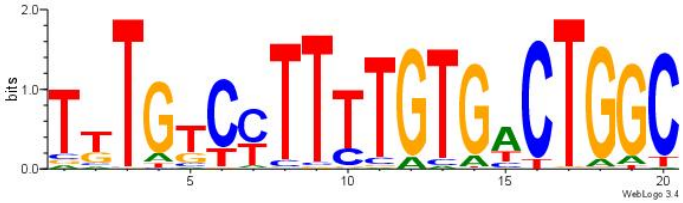

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122097

Alignment:
AGCTCMKCCTCCTGTCAGAT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

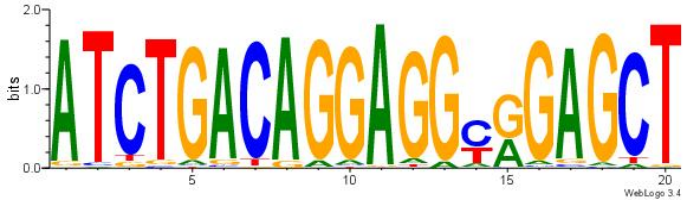

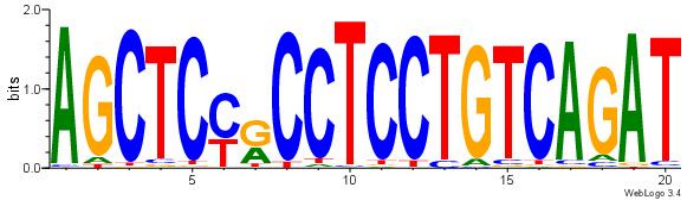

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122268

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

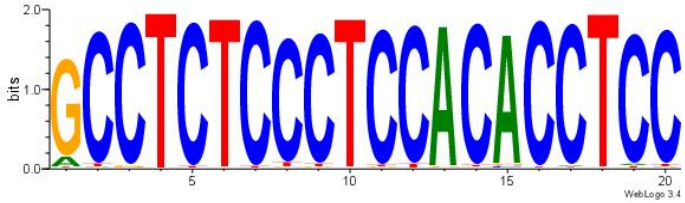

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

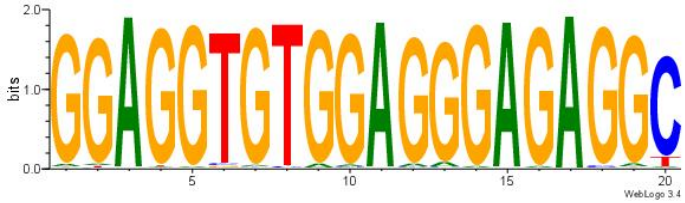

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127957

Alignment:
GAATACCTCCTGAAGGACCT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

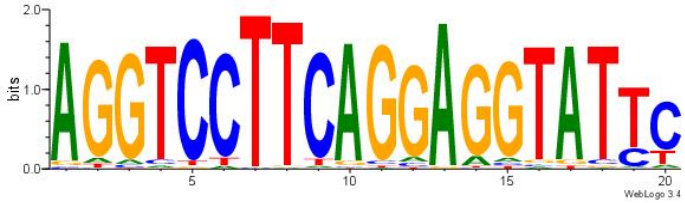

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

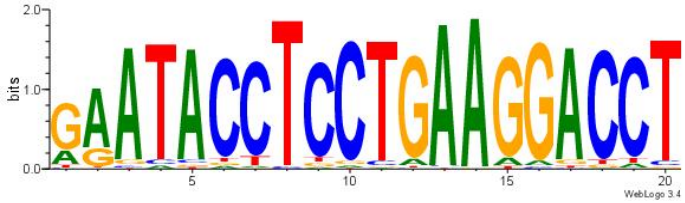

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.127972

Alignment:
GTTTAACCATTGAGGGCCAG
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

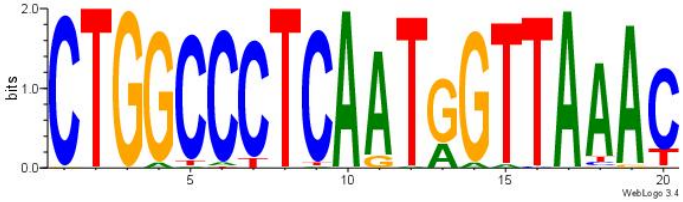

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

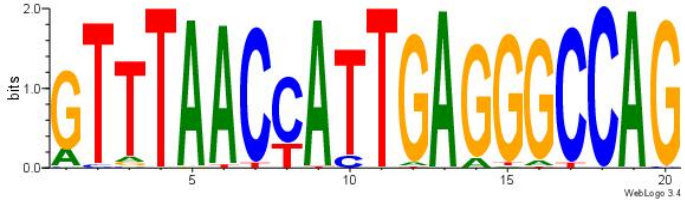

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.128474

Alignment:
AGTGACCCGATTTTCCAGGT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

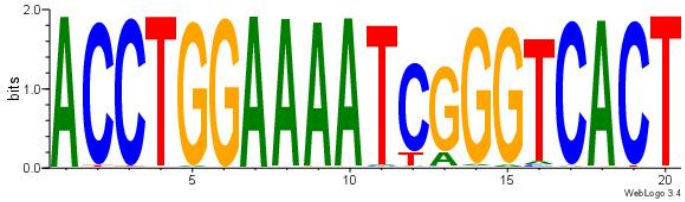

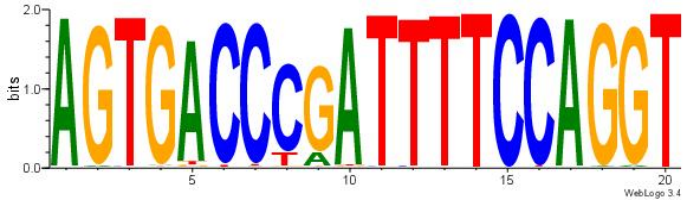

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.12963

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

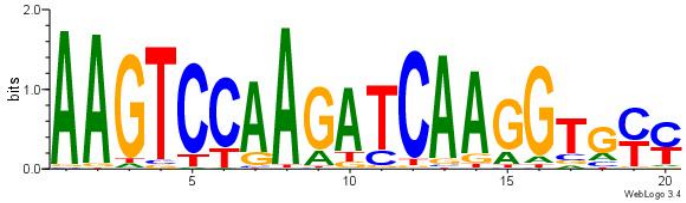

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

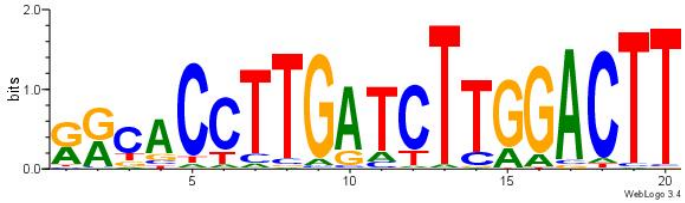

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131273

Alignment:

```
ATGGCTGAATAKTATTCCAT
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

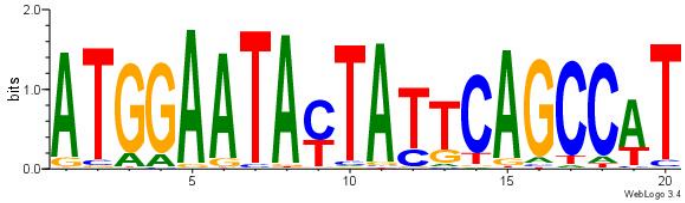

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

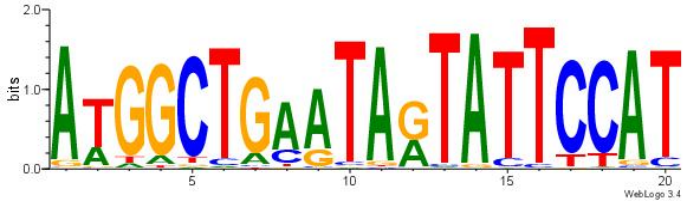

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131898

Alignment:
GGCACTGCTGGGGGACCCAG
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

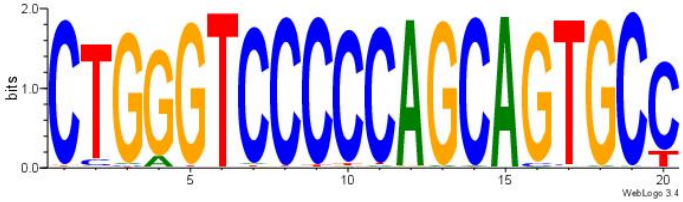

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

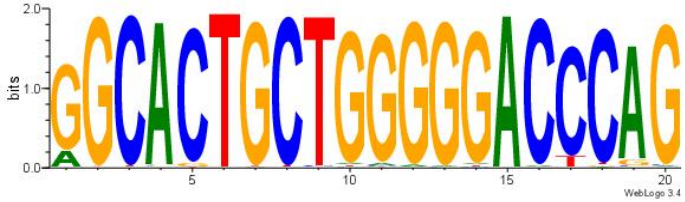

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.134161

Alignment:
AGGTTTGTTACATAGGTAWA
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

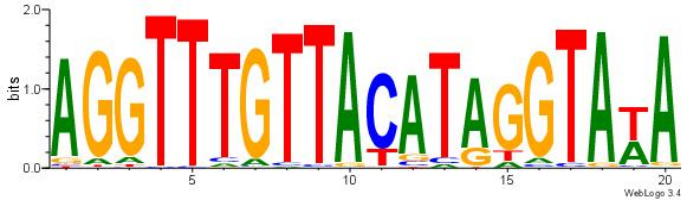

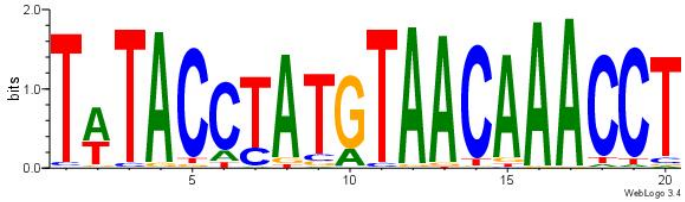

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136795

Alignment:
ACTGTCTTCCACCTCCACAT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

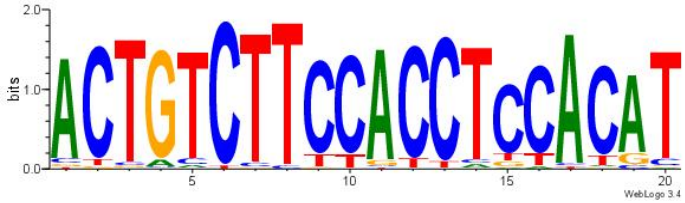

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

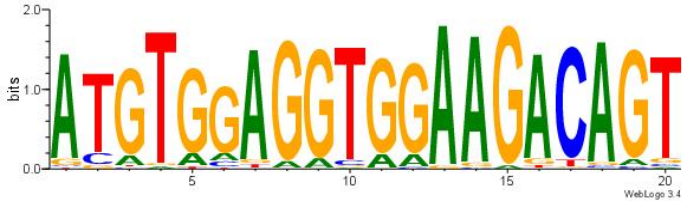

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136979

Alignment:
MGGGATATAATCTCCTGGTG
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

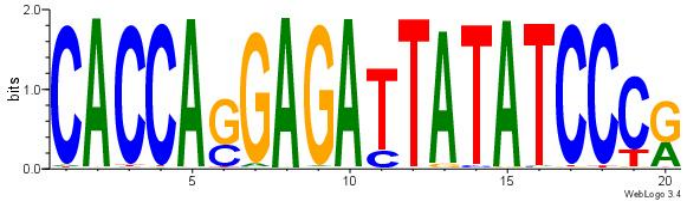

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

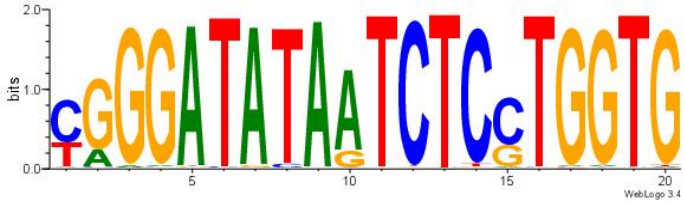

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.138179

Alignment:
GTCTCWAMAAAAAAWAMAAA
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

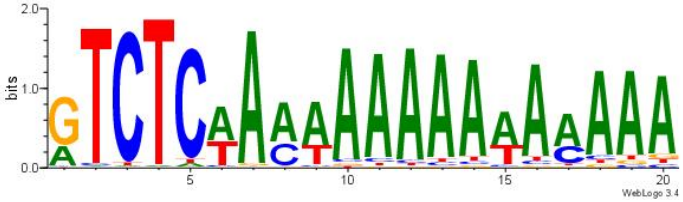

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

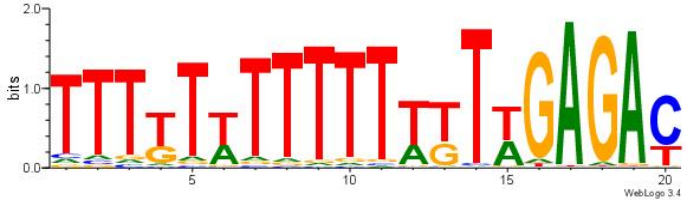

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138421

Alignment:
ATGATCCAGCAATYCCACTH
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

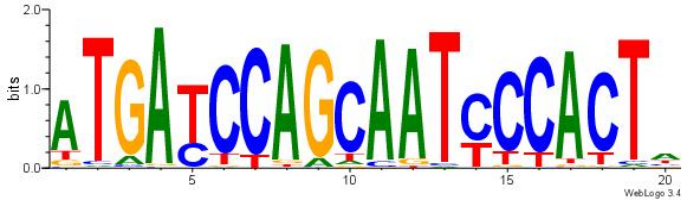

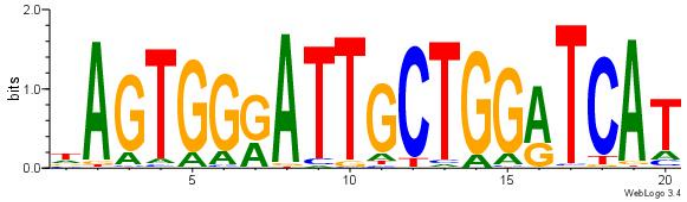

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139022

Alignment:
GGGATTGTAAATACACCAAT
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

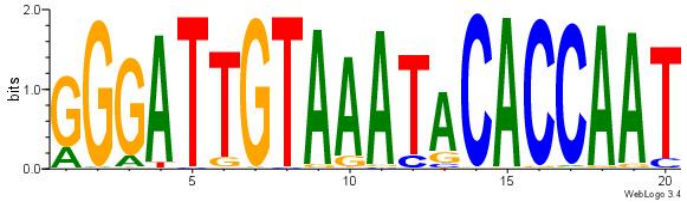

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139744

Alignment:
TTGTCCCACTGGAAGGTCTT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

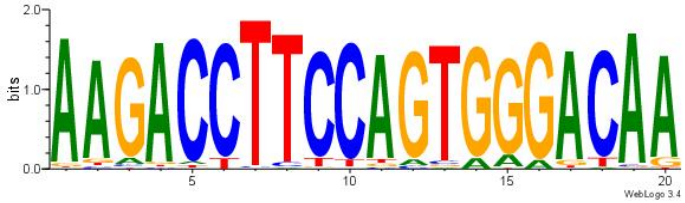

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

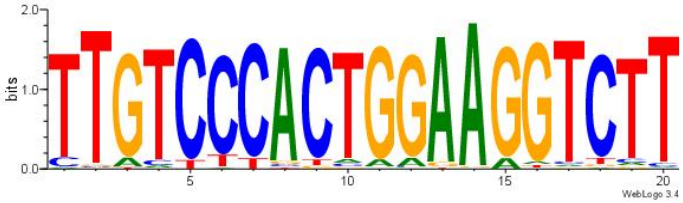

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140818

Alignment:
GTKTMTATMTACCACATTTT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

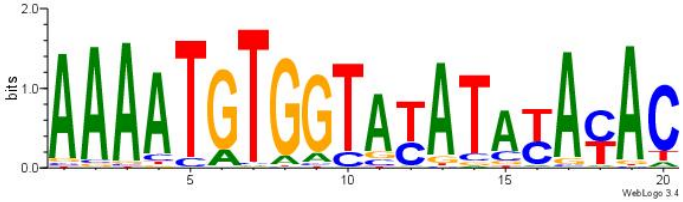

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

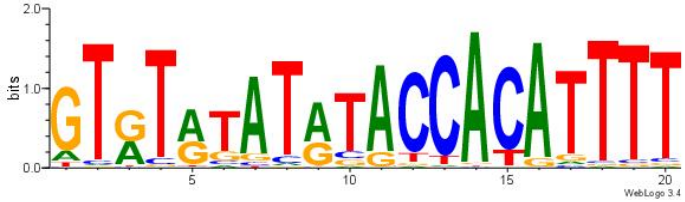

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.141999

Alignment:
CGCGGCGCTTGCGGGCCAGC
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

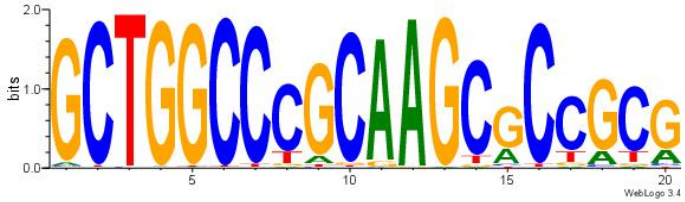

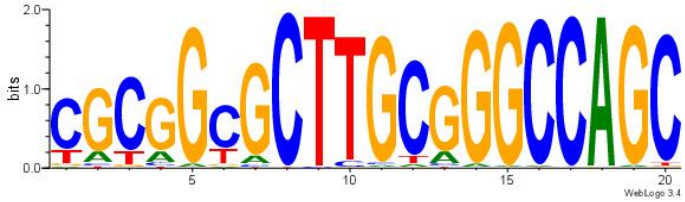

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142843

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
GTGGCCCTCTTCTCACAGCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

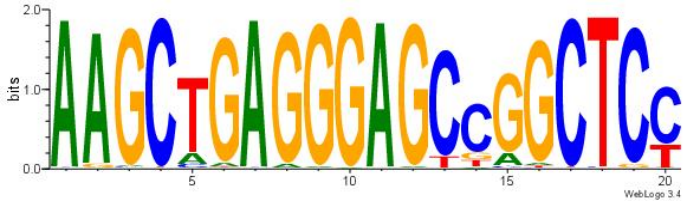

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

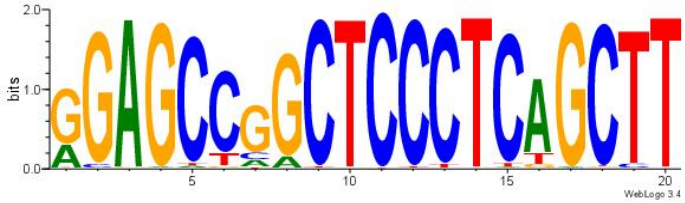

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143826

Alignment:
GCTGGAGTGCAGTGGCRYGA
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

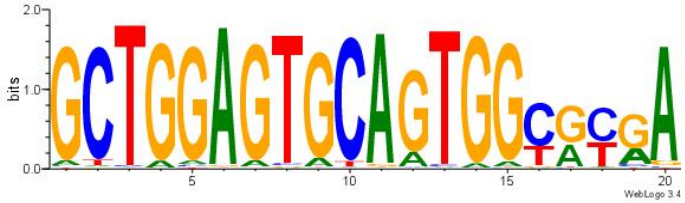

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

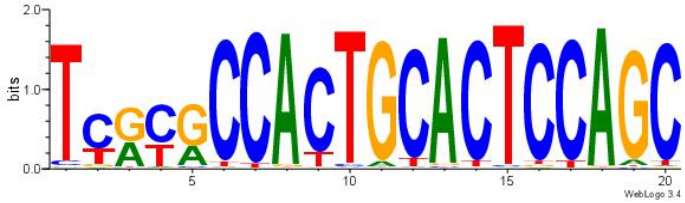

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144357

Alignment:
CATTCTGGGGTCTGGAGGAY
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

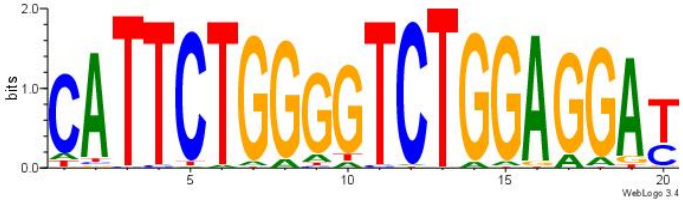

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

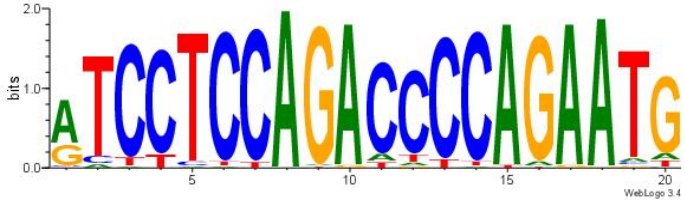

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144863

Alignment:
CTGGGCRACAGAGYRAGACY
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

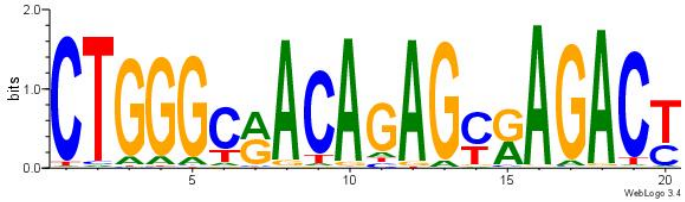

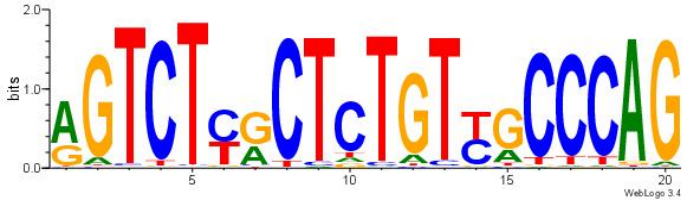

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146562

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GTGGCCCTCTTCTCACAGCT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

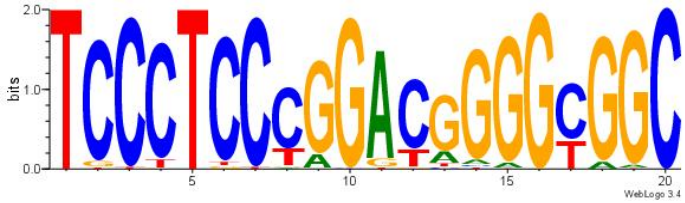

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

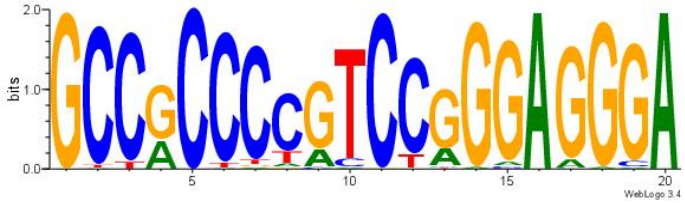

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146814

Alignment:
AAGGAACAAACTCCRGACAC
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

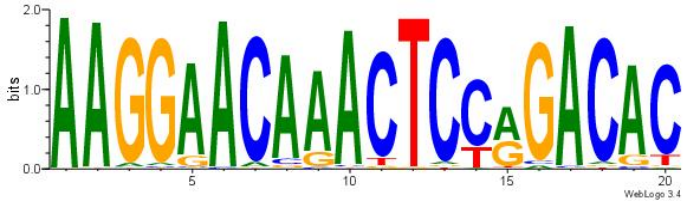

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

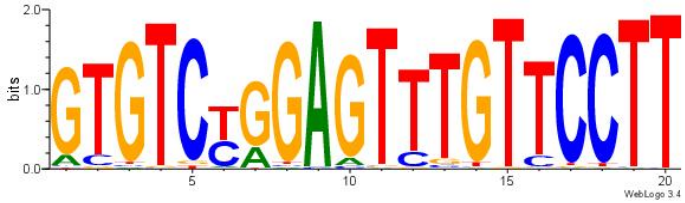

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.14775

Alignment:
ACACATCACAAAGCAGTTTC
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

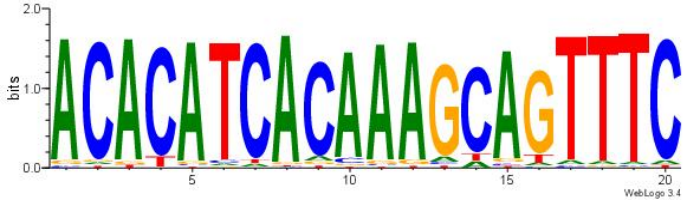

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

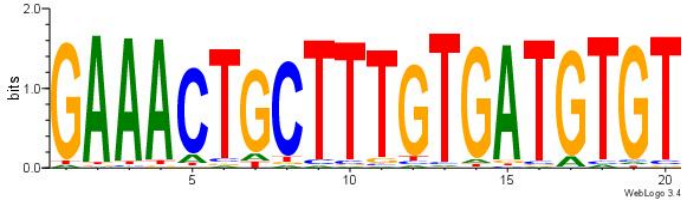

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147831

Alignment:
CAGCTACTCKTATACCCTTG
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

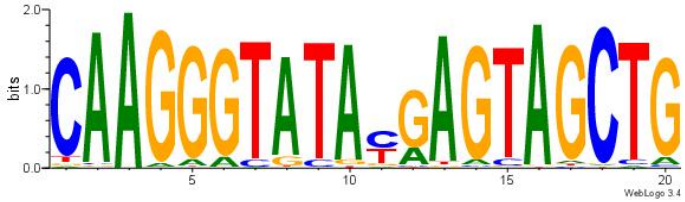

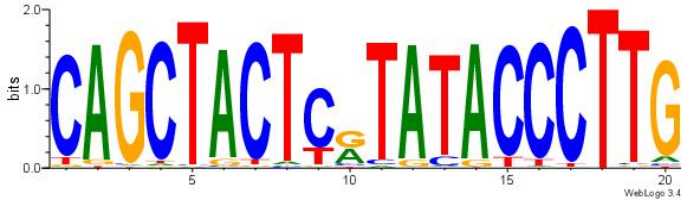

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149593

Alignment:

```
ATGTAACCAAAYACCACCTG
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

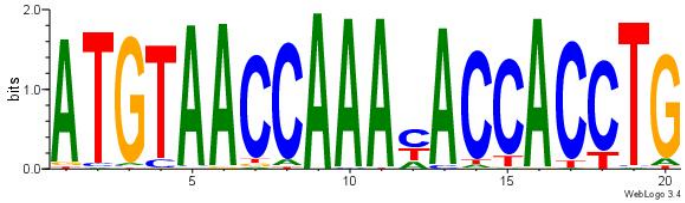

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

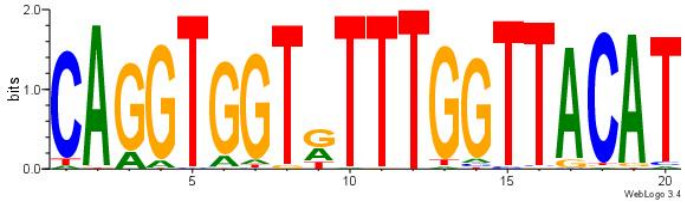

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149597

Alignment:

CGTCGCTCACGCTGGGAGCT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

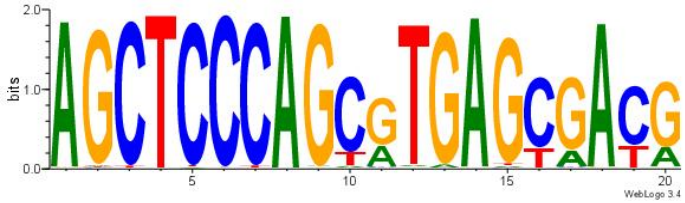

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

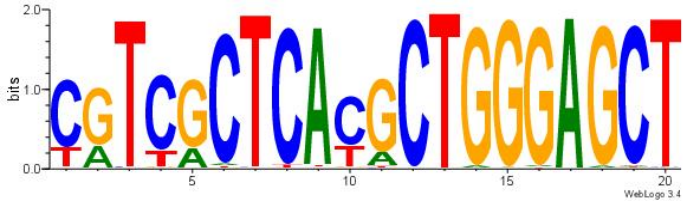

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150959

Alignment:
KCCGGGCCTTAGCTGCCTTC
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

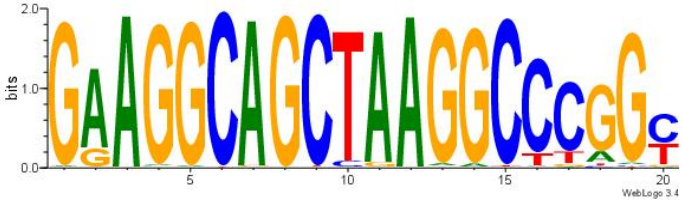

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

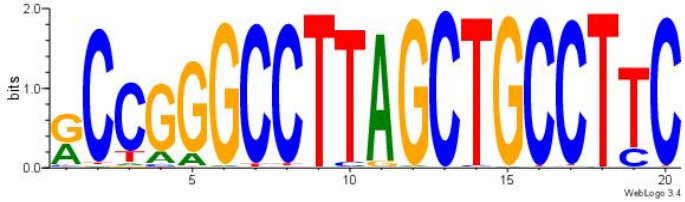

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.151474

Alignment:
GACAGGAGATTAACACTGAG
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

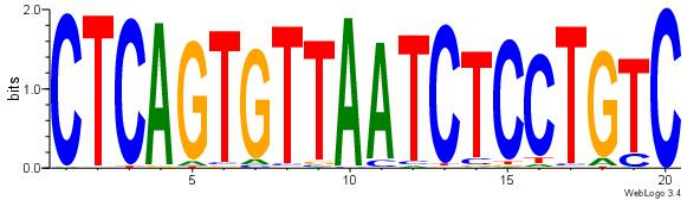

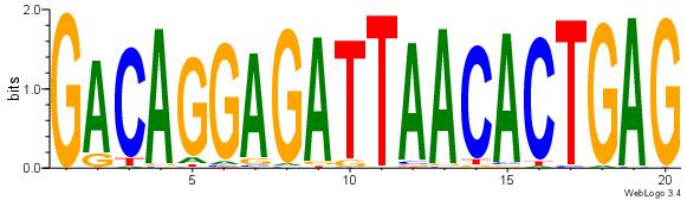

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151793

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
GTGGCCCTCTTCTCACAGCT
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

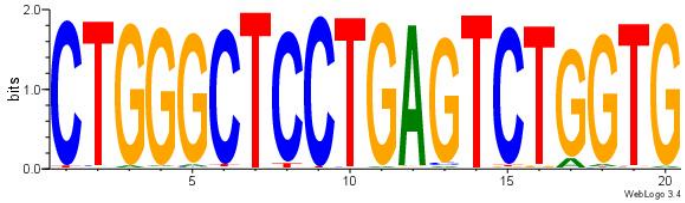

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

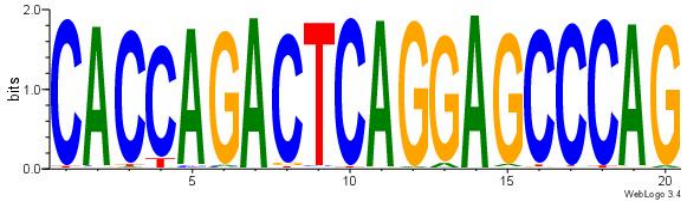

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152851

Alignment:
AGAGCCAAATCATGARTGAA
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

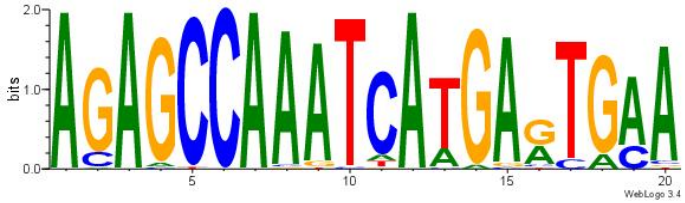

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

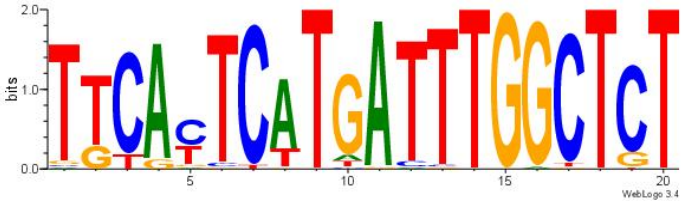

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.153461

Alignment:
TCTGGAGTGGACCTCCAGCA
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

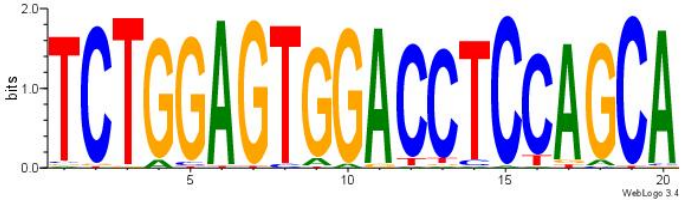

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

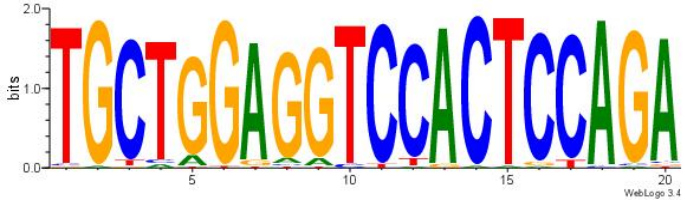

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153952

Alignment:
AAGCTCGAACTGGGTGGAGC
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

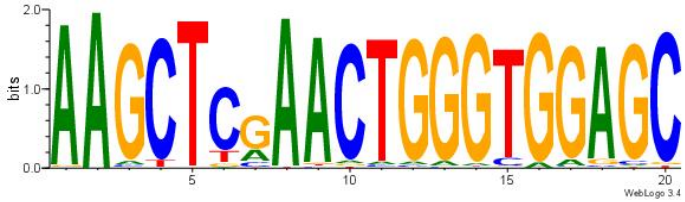

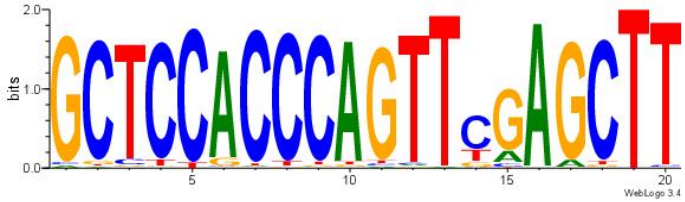

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154772

Alignment:

```
AACAACASACACTGGGGCCT
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

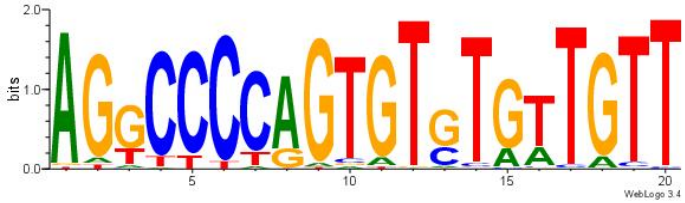

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

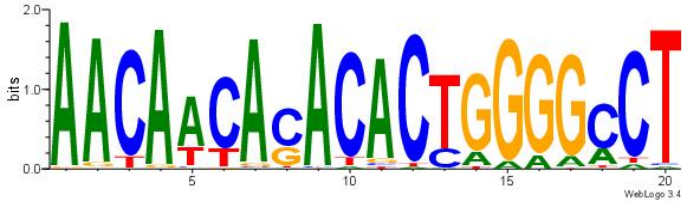

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154994

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
GTGGCCCTCTTCTCACAGCT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

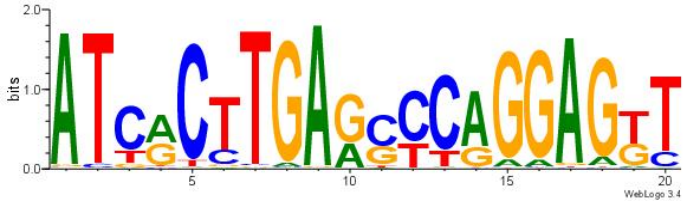

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

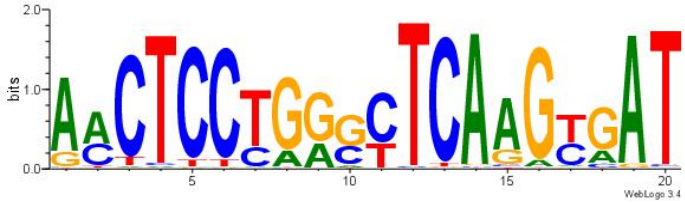

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.15501

Alignment:
GGTGGAGCTGCCTGCCAGTC
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

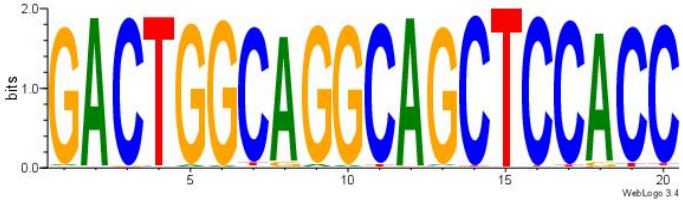

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

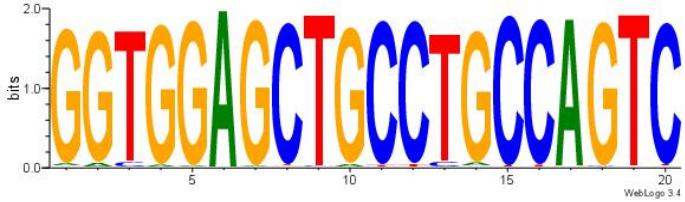

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155414

Alignment:
GGCATCACGGATCCTACCAA
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

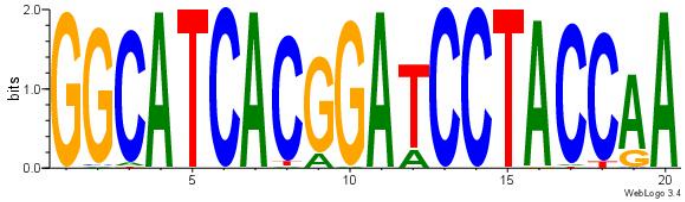

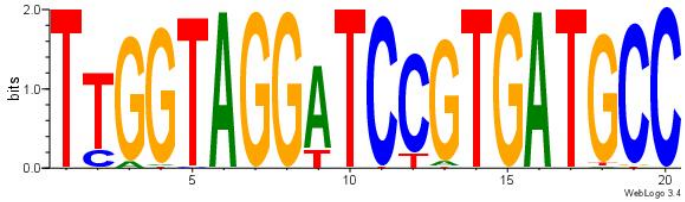

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155544

Alignment:

```
AGCCYCTGGYAACCAYYAWT
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

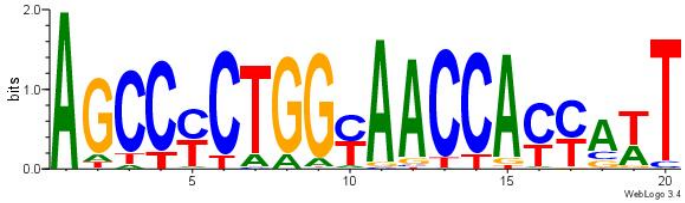

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

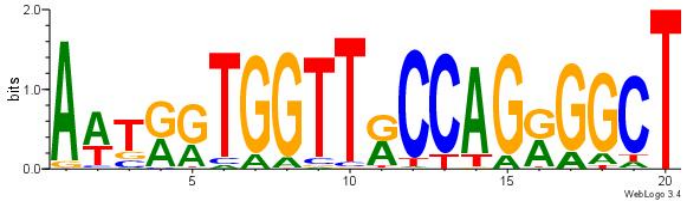

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155915

Alignment:

```
AAATTAGGCCAATTAATAAC
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

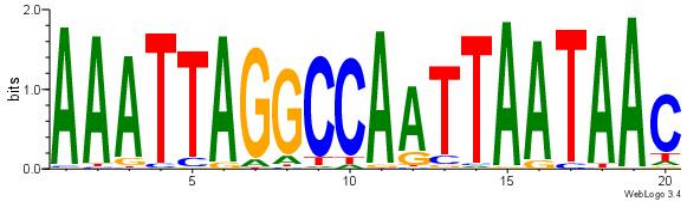

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156279

Alignment:
GTGCCAGGCACTGTKCTARG
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

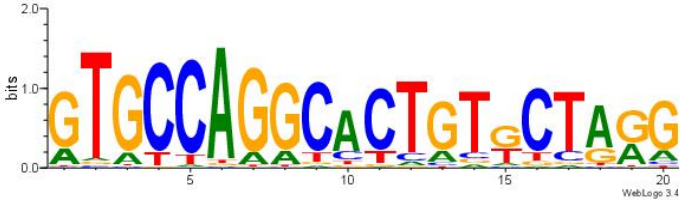

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

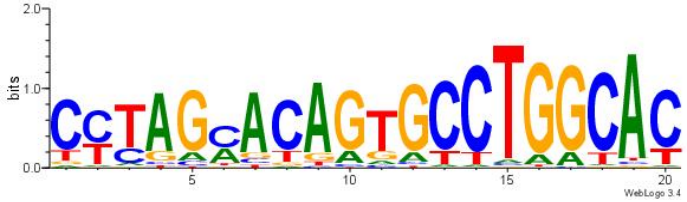

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156306

Alignment:
AAAMAMMKMATGTTCTCACT
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

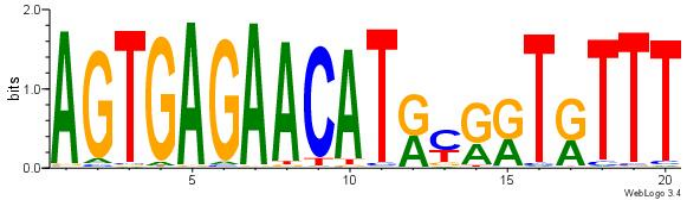

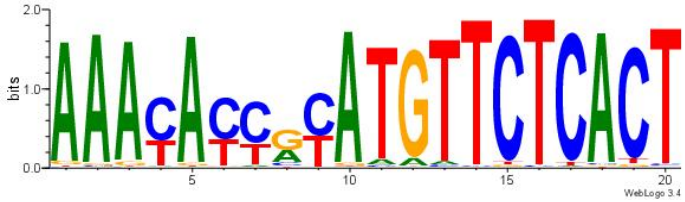

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156398

Alignment:

```
CCCATGCAAGTCYRAAATCC
GTGGCCCTCTTCTCACAGCT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

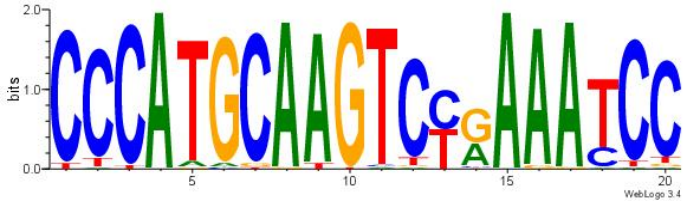

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

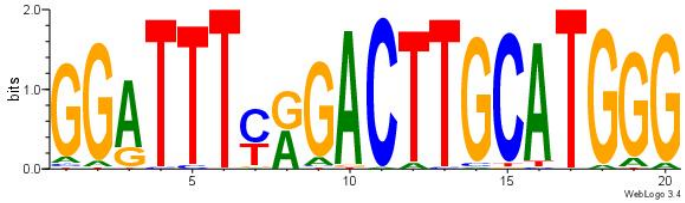

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156832

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

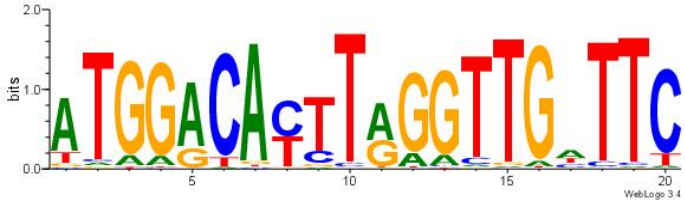

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

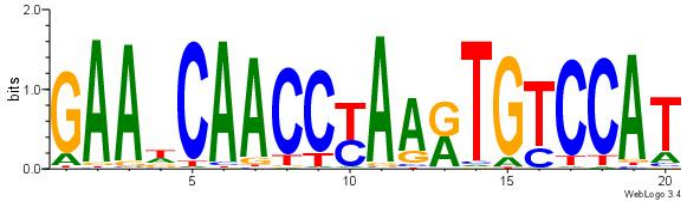

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157069

Alignment:
GCAAAKGACATGATYTCATT
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

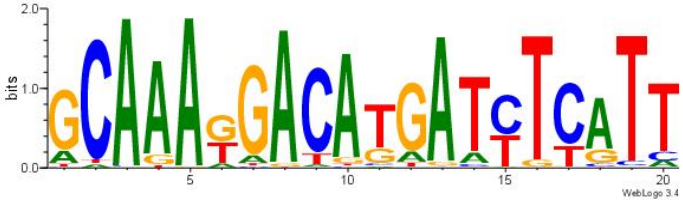

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

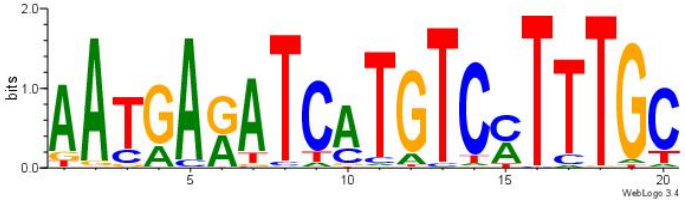

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157503

Alignment:
GAGAGAGAGAGAGAGAGAGA
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

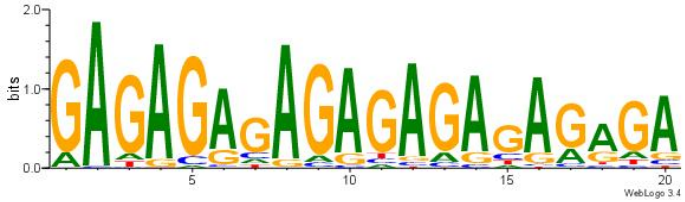

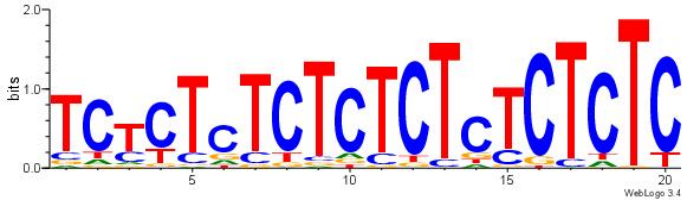

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157787

Alignment:

```
AAGTTCTKGGKTACATGTGC
AGCTGTGAGAAGAGGGCCAC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

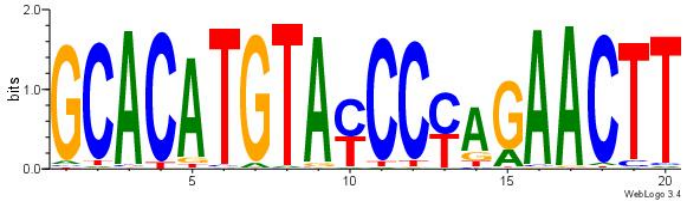

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

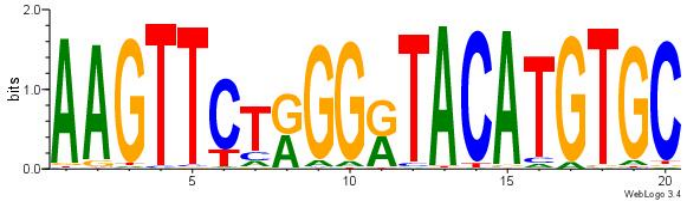

Dataset #: 1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158478

Alignment:

CTGACTGGGAGACACCTCCC
AGCTGTGAGAAGAGGGCCAC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

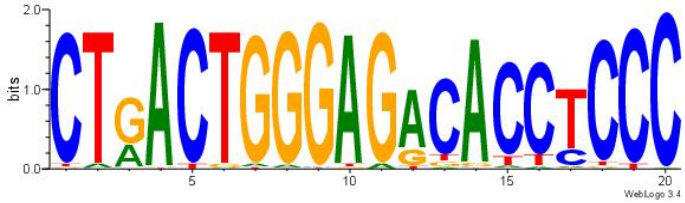

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

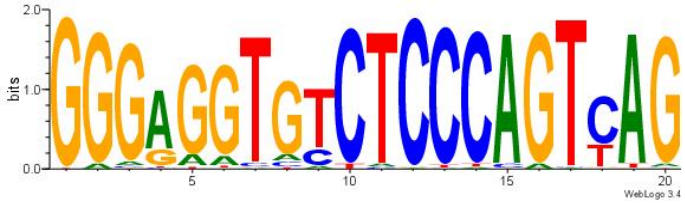

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.160319

Alignment:
GCCAATTTCTCCCATTTGGA
GTGGCCCTCTTCTCACAGCT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

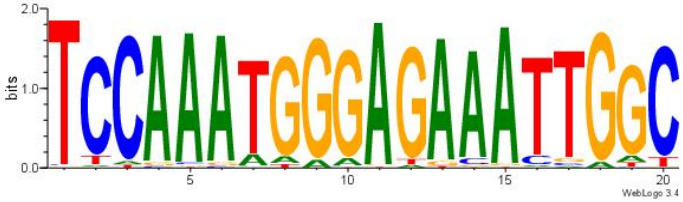

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

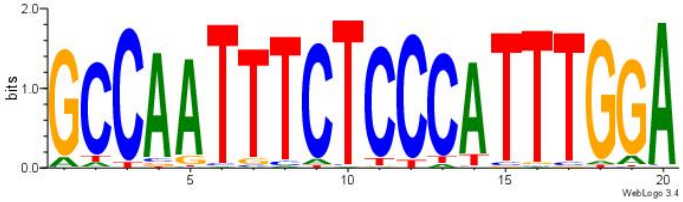

Dataset #: 1 Motif ID: 295 Motif name: Motif 295

Original motif Consensus sequence: CCCCGCCCC

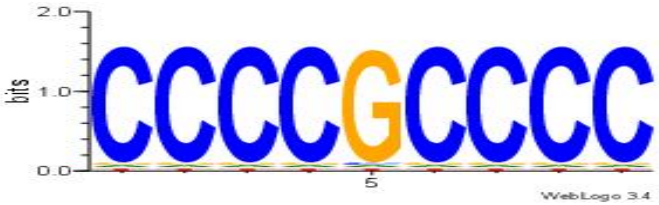

Reverse complement motif Consensus sequence: GGGGCGGGG

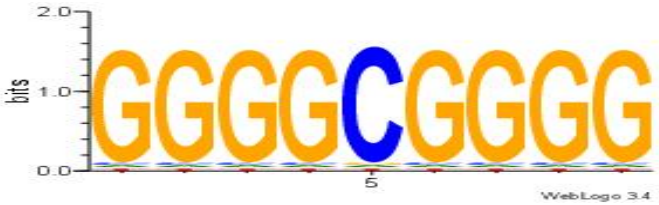

Best Matches for Motif ID 295 (Highest to Lowest)

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.02574

Alignment:

```
CGAGCCCTGCCCCGCGG
----CCCCGCCCC----
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

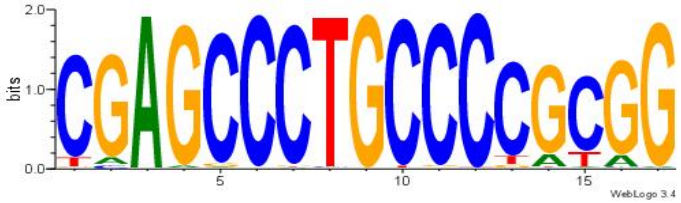

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

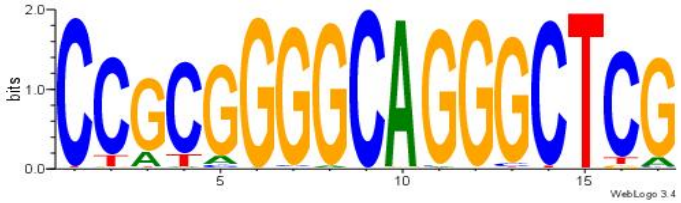

Dataset #:	1
Motif ID:	250
Motif name:	Motif 250
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0380756

Alignment:

```
CCACCGCTCC
-CCCCGCCCC
```

Original motif Consensus sequence: CCACCGCTCC

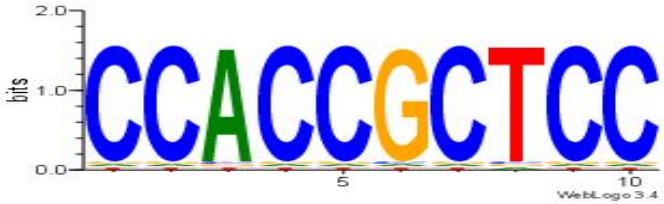

Reverse complement motif Consensus sequence: GGAGCGGTGG

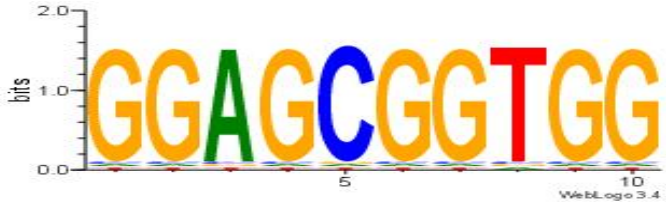

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0387901

Alignment:

```
CCCCWCCCCCA
CCCCGCCCC--
```

Original motif Consensus sequence: CCCCWCCCCCA

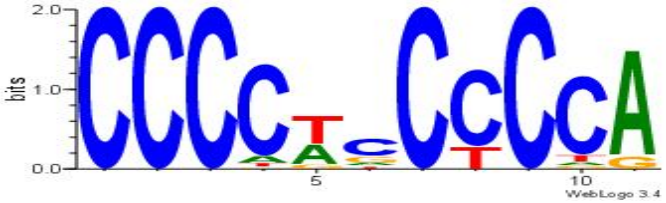

Reverse complement motif Consensus sequence: TGGGGGWGGGG

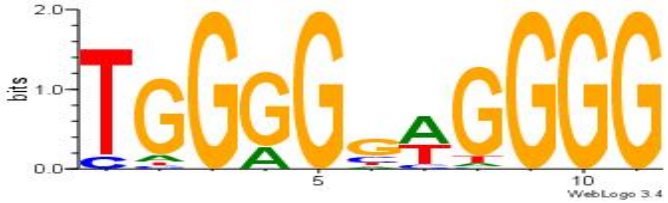

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.047748

Alignment:

```
GGGGGCTGACCCCCCCACC
----------CCCCGCCCC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

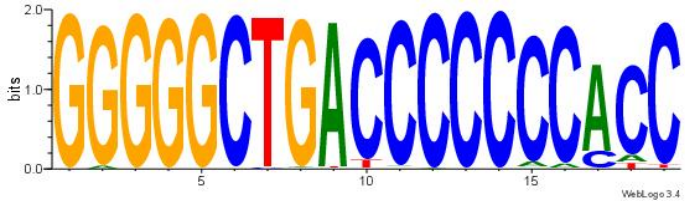

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

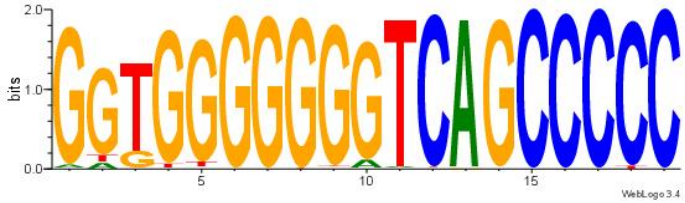

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 9
Similarity score: 0.0495574

Alignment:
GAAAGGGAACTCCCTGACCC
----------CCCCGCCCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

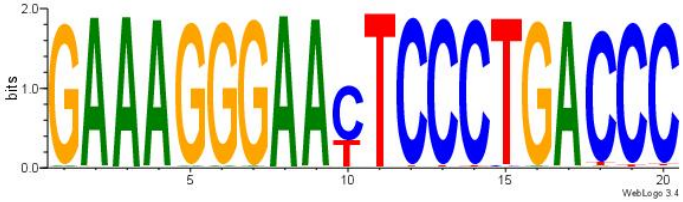

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

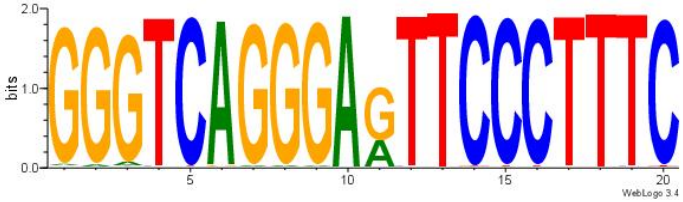

Dataset #: 1
Motif ID: 101
Motif name: Motif 101
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 9
Similarity score: 0.0502986

Alignment:
CGCCGCCGCCGC
---CCCCGCCCC

Original motif Consensus sequence: CGCCGCCGCCGC

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

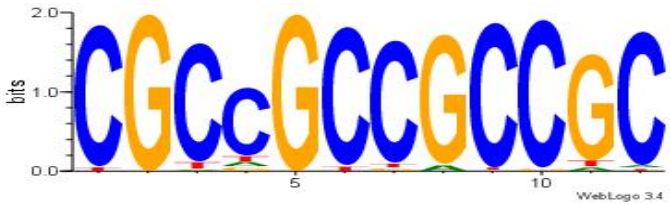

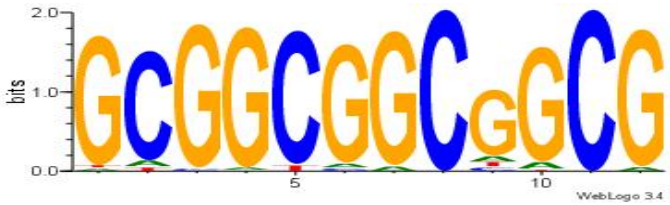

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0504162

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-GGGGCGGGG---------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

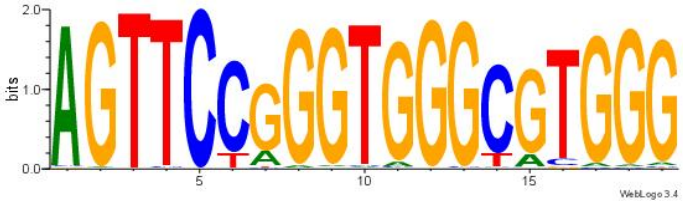

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

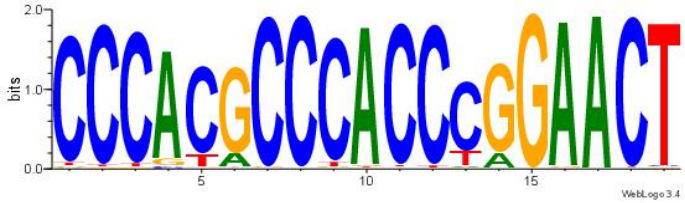

Dataset #:	1

Motif ID:	127
Motif name:	Motif 127
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0504816

Alignment:

```
GGGGTTGGGG
-GGGGCGGGG
```

Original motif Consensus sequence: CCCCAACCCC

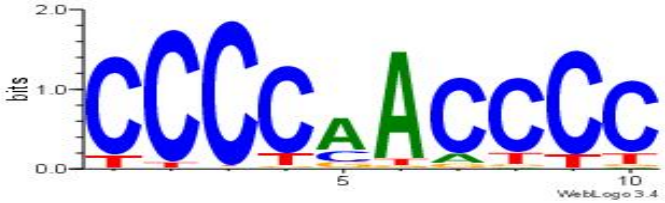

Reverse complement motif Consensus sequence: GGGGTTGGGG

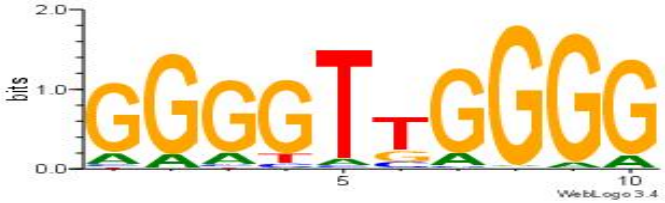

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0507829

Alignment:
RRCCGCTCCATG
---CCCCGCCCC

Original motif Consensus sequence: CATGGAGCGGKK

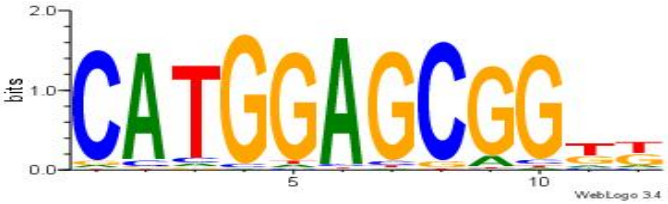

Reverse complement motif Consensus sequence: RRCCGCTCCATG

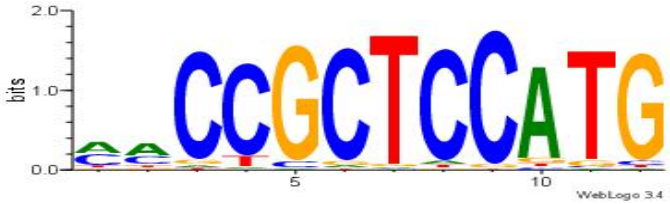

Dataset #:	1
Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0514431

Alignment:
CTCTGCCCGGCCGC
-----CCCCGCCCC

Original motif Consensus sequence: CTCTGCCCGGCCGC

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

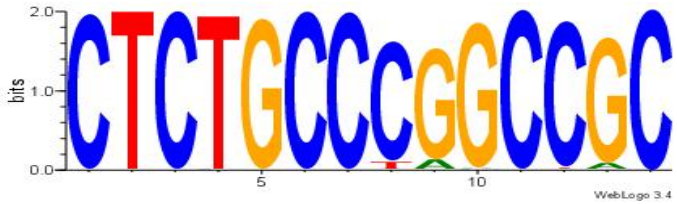

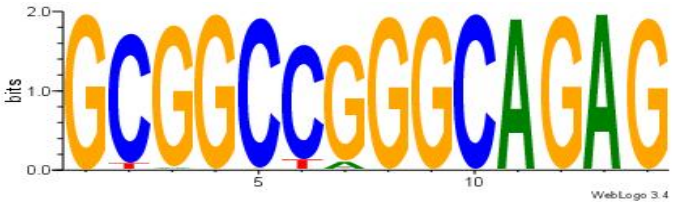

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0526551

Alignment:

```
CAGGCGGCTGGGAG
--GGGGCGGGG---
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

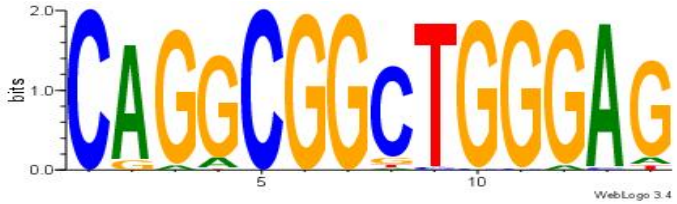

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

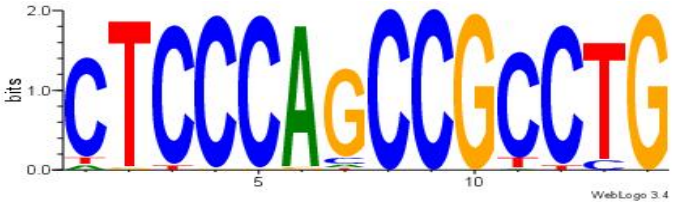

Dataset #:	1
Motif ID:	155

Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0554786

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-------CCCCGCCCC----
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

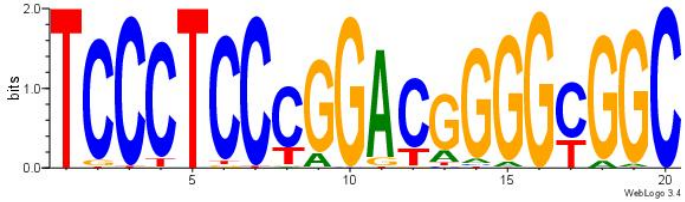

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

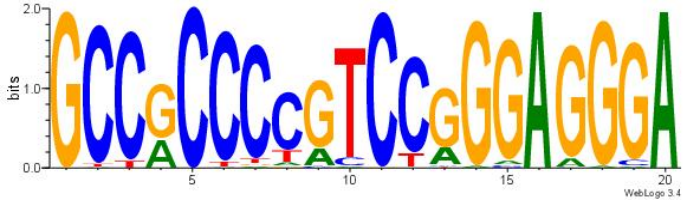

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	9
Similarity score:	0.0555587

Alignment:
GGCAATGCCTCGCCCTGCTT
----CCCCGCCCC-------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

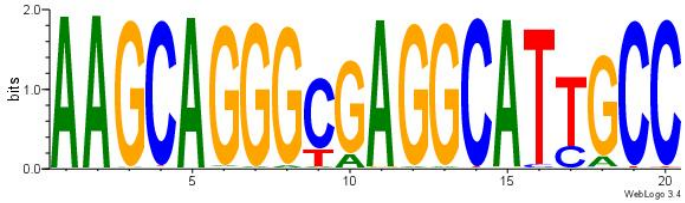

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

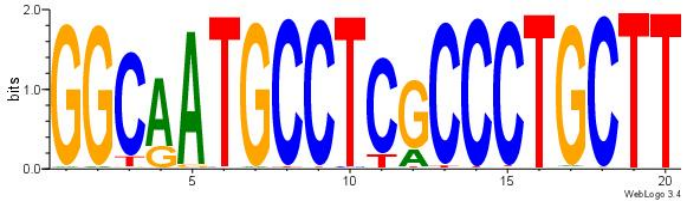

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	9
Similarity score:	0.0594186

Alignment:
CCTCCCAGCCGCCT
--CCCCGCCCC---

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

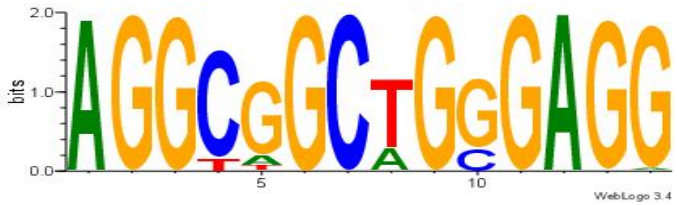

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0596722

Alignment:

```
KGGGCDGAGGGGCTCCT
GGGGCGGGG--------
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

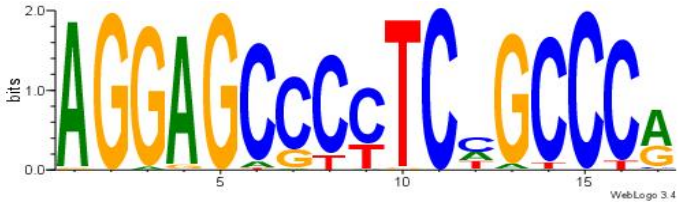

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

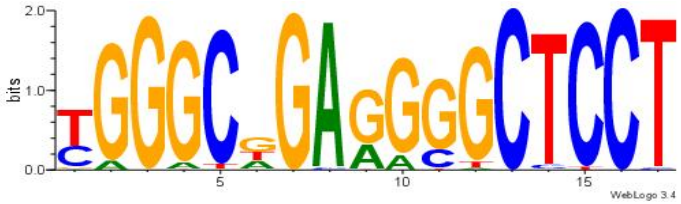

Dataset #: 1

Motif ID:	198
Motif name:	Motif 198
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0602114

Alignment:

```
TCCCTRCCCT
CCCCGCCCC-
```

Original motif Consensus sequence: AGGGMAGGGA

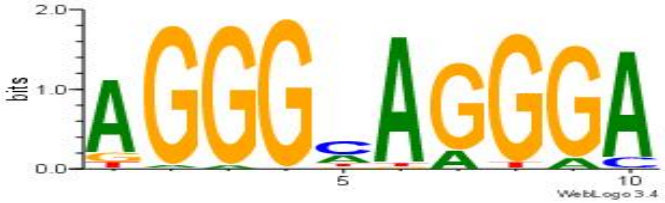

Reverse complement motif Consensus sequence: TCCCTRCCCT

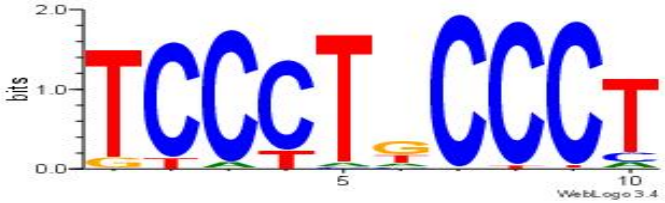

Dataset #:	1
Motif ID:	197
Motif name:	Motif 197
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0633281

Alignment:
GCTGGCCGGGCG
-GGGGCGGGG--

Original motif Consensus sequence: CGCCCGGCCAGC

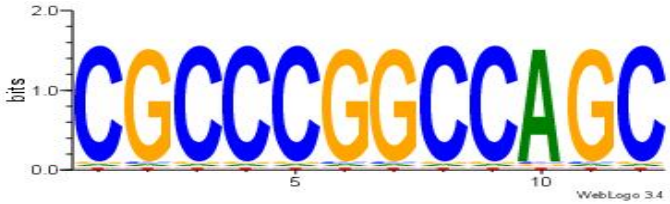

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

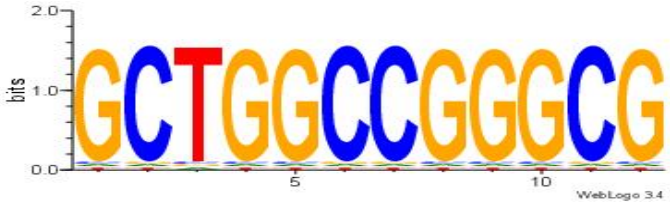

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	9
Similarity score:	0.0642516

Alignment:
AGCTCMKCCTCCTGTCAGAT
---------CCCCGCCCC--

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

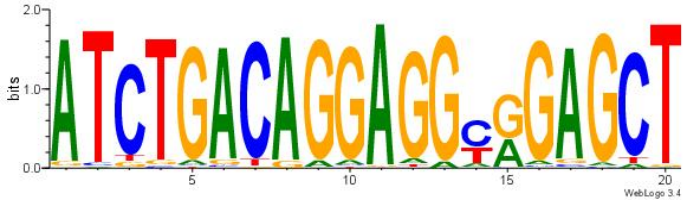

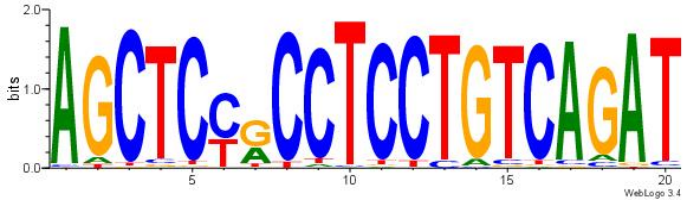

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	9
Similarity score:	0.0645052

Alignment:

```
GGCCMGCAGGGCKGGC
-------GGGGCGGGG
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

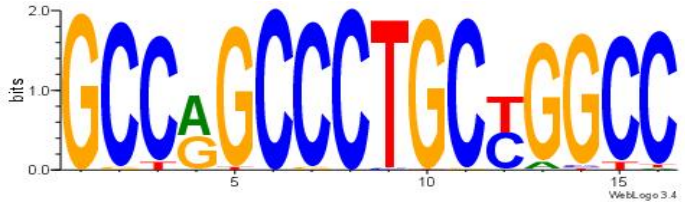

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

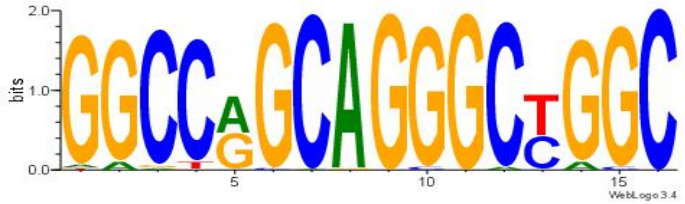

Dataset #: 1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0657113

Alignment:

```
ATTAGCYRGGCRTGGTGGC
----GGGGCGGGG------
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

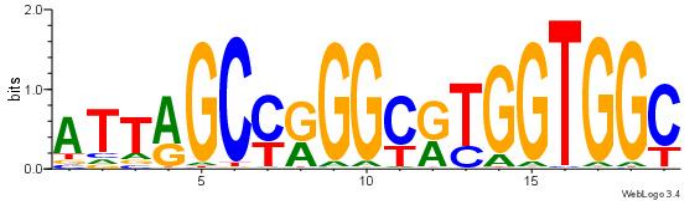

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

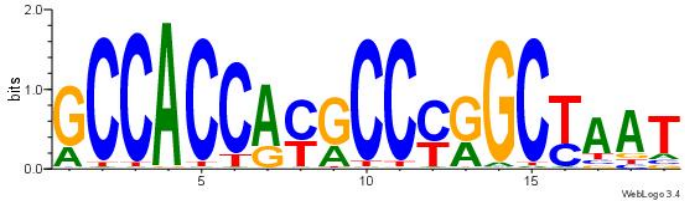

Dataset #:	1
Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	9

Similarity score: 0.0660464

Alignment:
CCCAGCTCTGCC
CCCCGCCCC---

Original motif Consensus sequence: CCCAGCTCTGCC

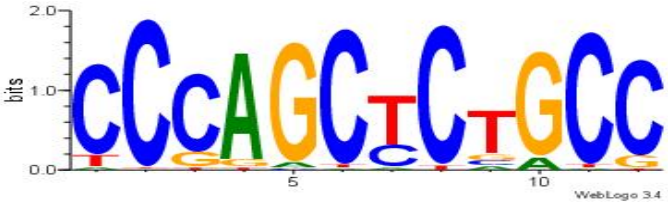

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 9
Similarity score: 0.0661381

Alignment:
GCCGGGRAGAGGCGCTCCT
---GGGGCGGGG-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

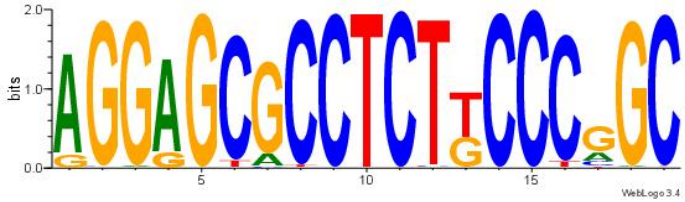

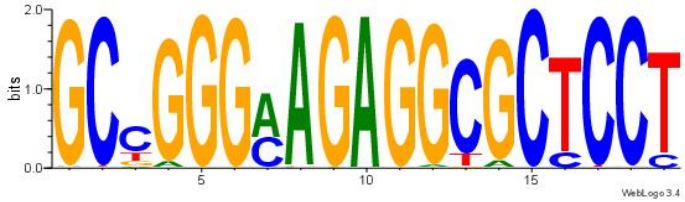

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0679375

Alignment:

```
GKGGCAGTGAGGC
GGGGCGGGG----
```

Original motif Consensus sequence: GCCTCACTGCCRC

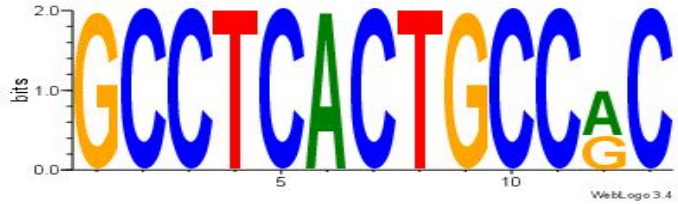

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

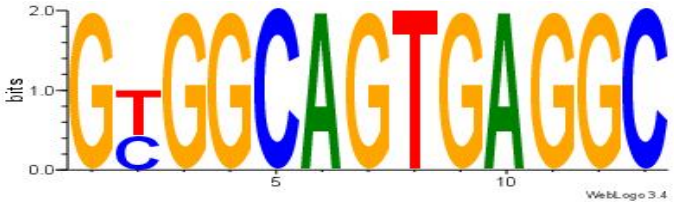

Dataset #:	1
Motif ID:	321

Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	9
Similarity score:	0.0682021

Alignment:

```
AAGCTCGAACTGGGTGGAGC
----------GGGGCGGGG-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

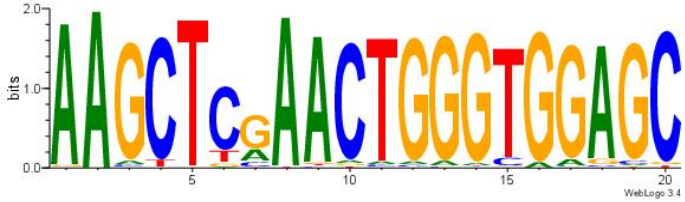

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

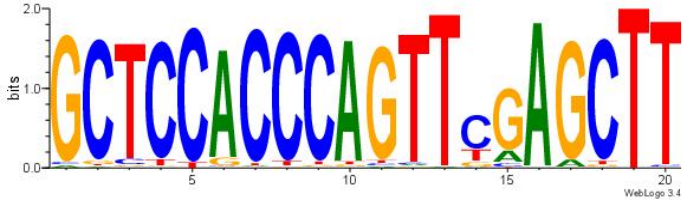

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	9
Similarity score:	0.0688111

Alignment:
AGCCCCGGTTCCCGCYCGC
---------CCCCGCCCC-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

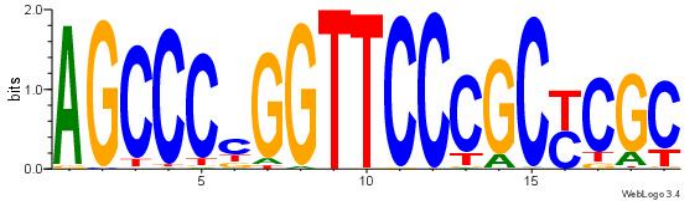

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

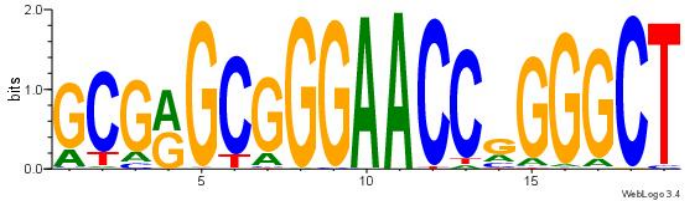

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	9
Similarity score:	0.0705895

Alignment:
GGMGCKGTGGCTC
GGGGCGGGG----

Original motif Consensus sequence: GAGCCACYGCRCC

Reverse complement motif Consensus sequence: GGMGCKGTGGCT

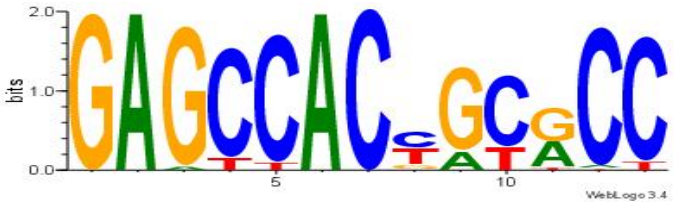

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0709702

Alignment:

```
GGAGGCKGAGG
-GGGGCGGGG-
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	17

Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0714256

Alignment:

```
AGACAGTGGGYGCAGGHCA
--GGGGCGGGG--------
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

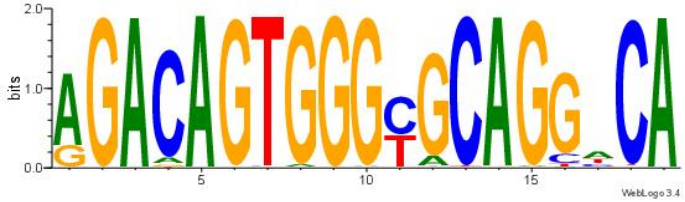

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

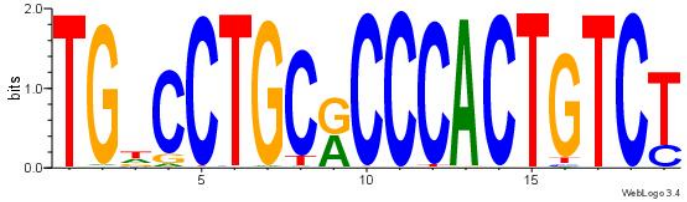

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0718282

Alignment:
CRTGAGCCACYGYRCCYGGC
-------CCCCGCCCC----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

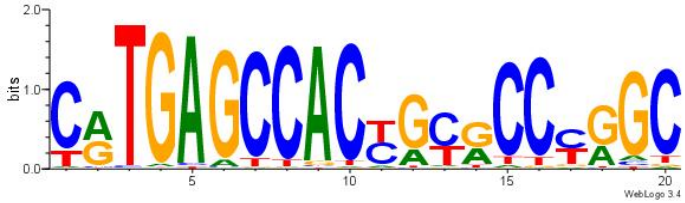

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

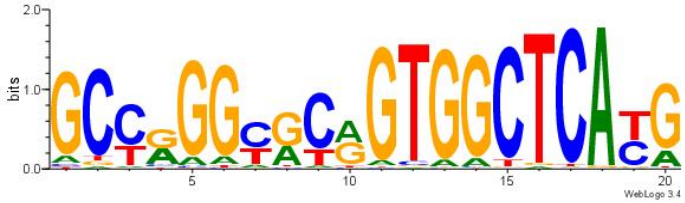

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0721951

Alignment:
GTGTCCCCTTCCTCCC
---CCCCGCCCC----

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

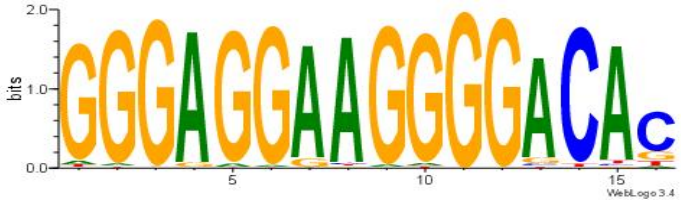

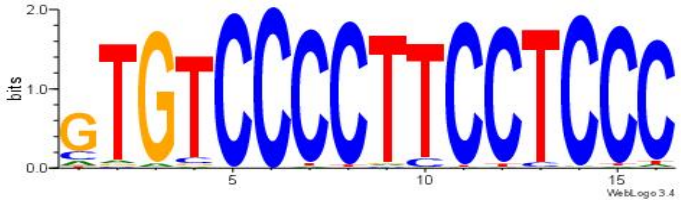

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.0721986

Alignment:

```
CTCCTGCCTCAGCY
-CCCCGCCCC----
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

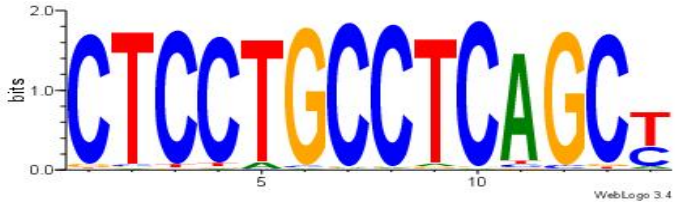

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

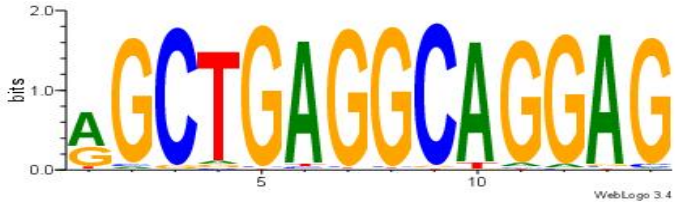

Dataset #:	1
Motif ID:	105

Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0731443

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
---GGGGCGGGG--------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

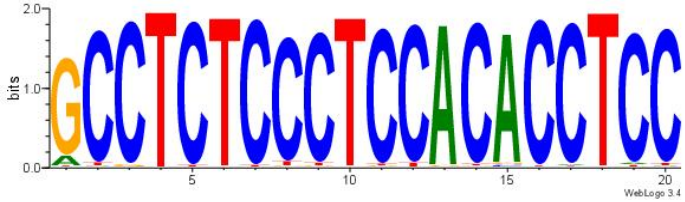

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

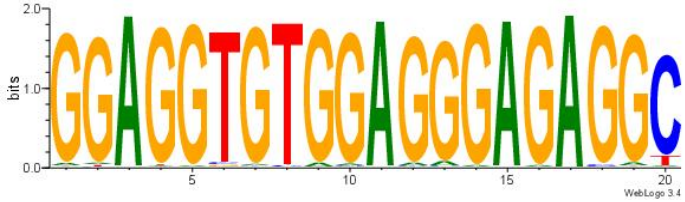

Dataset #:	1
Motif ID:	288
Motif name:	Motif 288
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0735689

Alignment:
GGGACTTGGG
GGGGCGGGG-

Original motif Consensus sequence: CCCAAGTCCC

Reverse complement motif Consensus sequence: GGGACTTGGG

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0737348

Alignment:
AAGCTGAGGGAGCCGGCTCC
---GGGGCGGGG--------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

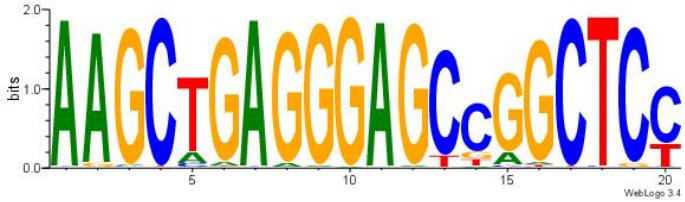

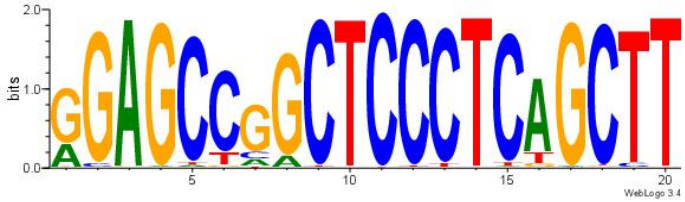

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0739516

Alignment:

```
TGCAGCCCCGGT
---CCCCGCCCC
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

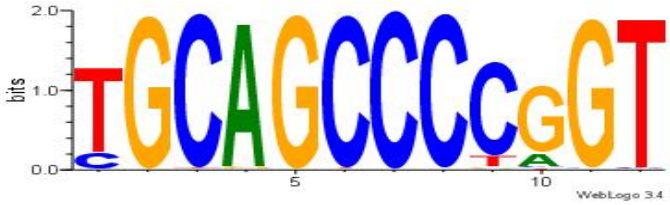

Dataset #:	1
Motif ID:	161

Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	9
Similarity score:	0.0741916

Alignment:

```
VCCDCCTCCKCCTCCTC
CCCCGCCCC--------
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

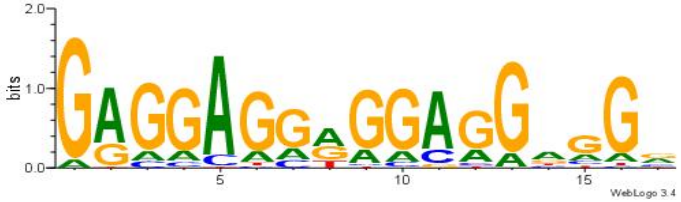

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

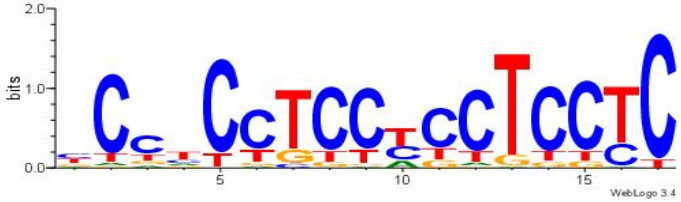

Dataset #:	1
Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	9
Similarity score:	0.074772

Alignment:
ACCCCGTCTGGGA
-CCCCGCCCC---

Original motif Consensus sequence: ACCCCGTCTGGGA

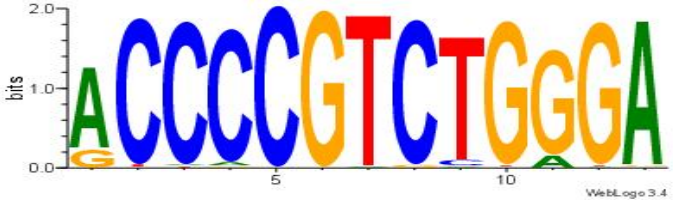

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

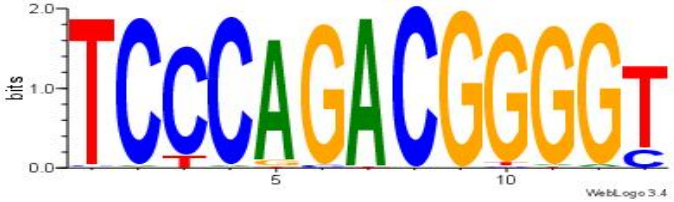

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	9
Similarity score:	0.0749757

Alignment:
GTGGGTGCAGTGCA
---GGGGCGGGG--

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

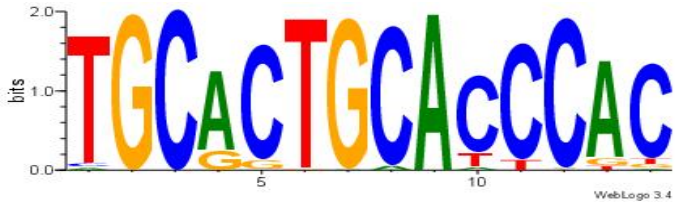

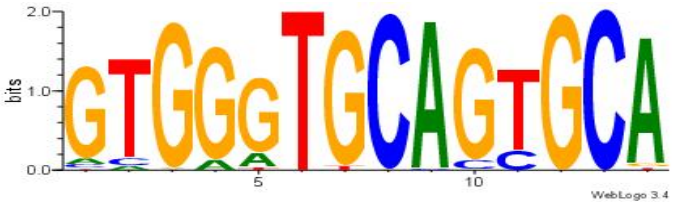

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	9
Similarity score:	0.0751018

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-----GGGGCGGGG-----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

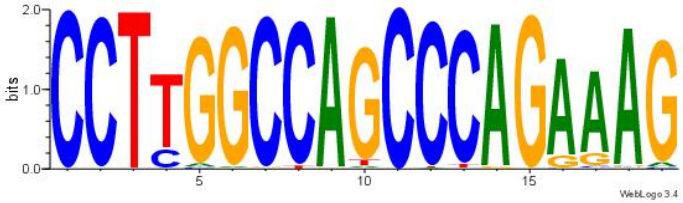

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

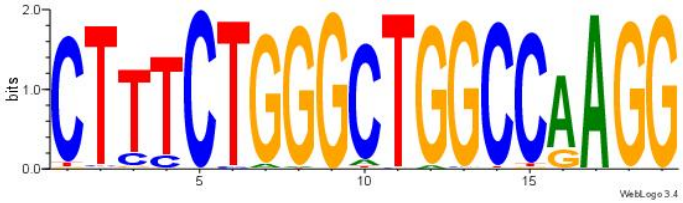

Dataset #:	1

Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	9
Similarity score:	0.0751165

Alignment:

```
ACTCAGCCCRCCTGCACCC
---------CCCCGCCCC-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

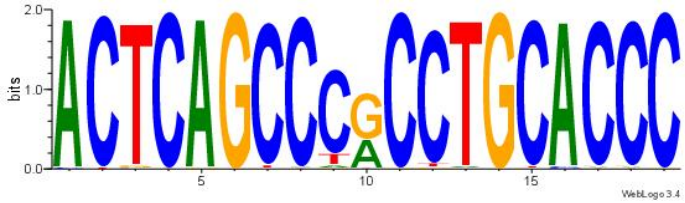

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

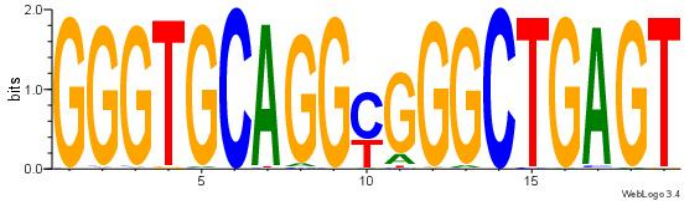

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	9

Similarity score: 0.0759882

Alignment:
AAATTACCCAGTCTCAGGTA
------CCCCGCCCC-----

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

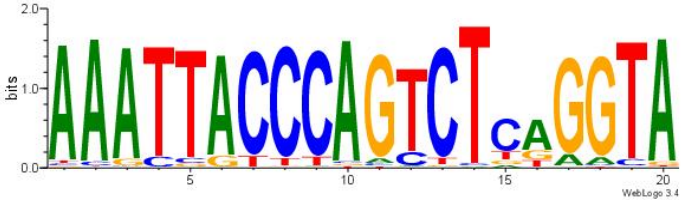

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

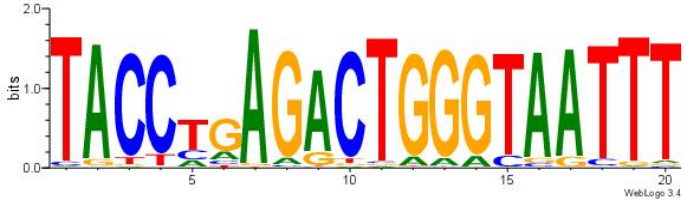

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 9
Similarity score: 0.0760333

Alignment:
CTCCTGCCTCAGCCTCCCRA
-CCCCGCCCC----------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

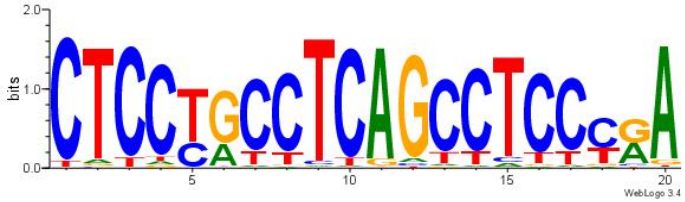

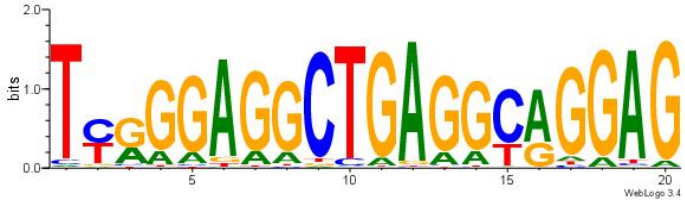

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0762014

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-------GGGGCGGGG----
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

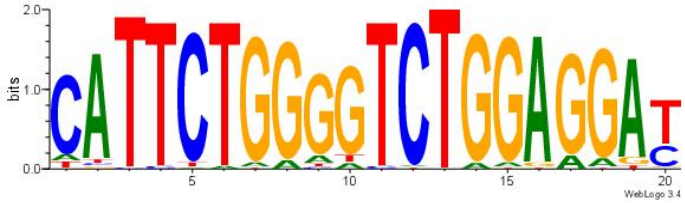

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

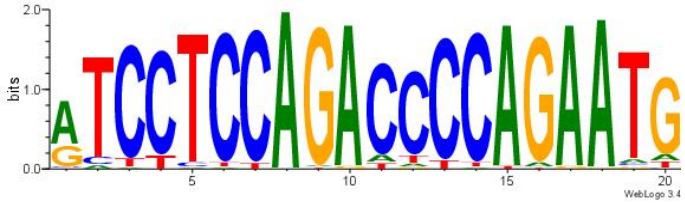

Dataset #: 1

Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	9
Similarity score:	0.0763387

Alignment:

```
TAATAAGGGTGTGGG
------GGGGCGGGG
```

Original motif Consensus sequence: CCCACACCCTTATTA

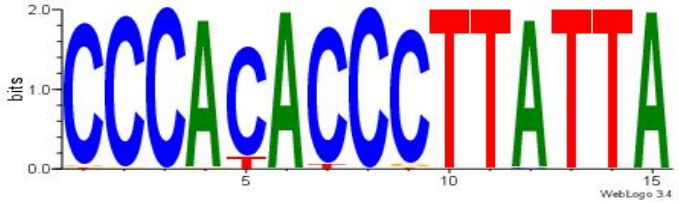

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

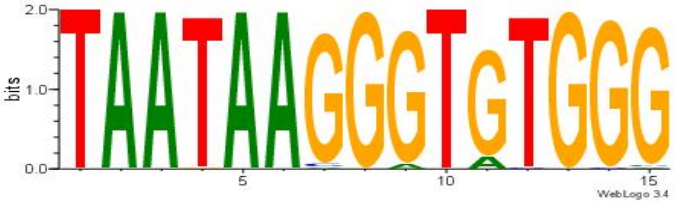

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0766518

Alignment:
CGTCCATCACCCC
----CCCCGCCCC

Original motif Consensus sequence: CGTCCATCACCCC

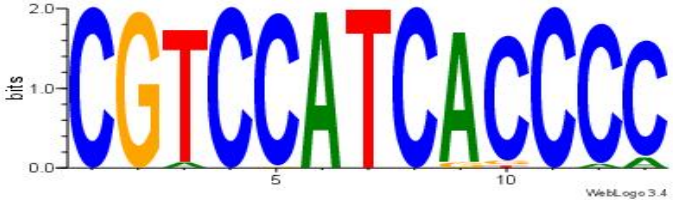

Reverse complement motif Consensus sequence: GGGGTGATGGACG

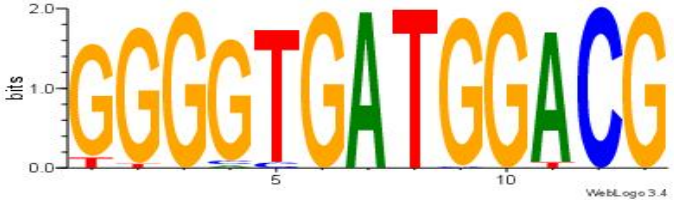

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	9
Similarity score:	0.0770698

Alignment:
TACACCCTCCGCAGCC
----CCCCGCCCC---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

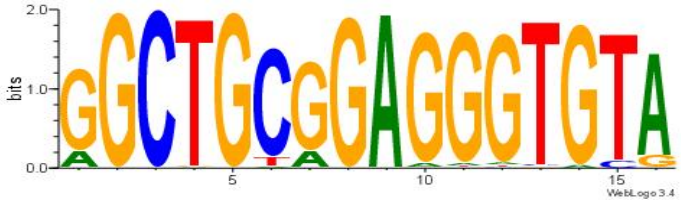

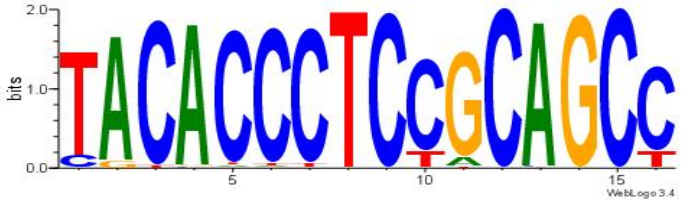

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 9
Similarity score: 0.0770919

Alignment:
CGCCCGGCCAGCCGC
------CCCCGCCCC

Original motif Consensus sequence: CGCCCGGCCAGCCGC

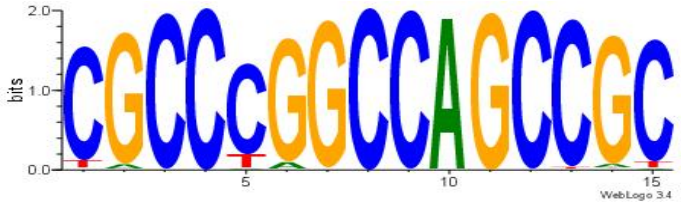

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

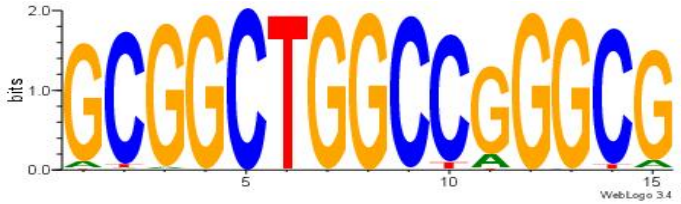

Dataset #: 1

Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	9
Similarity score:	0.0773782

Alignment:

```
GCTTCTGGTGAGGGC
------GGGGCGGGG
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

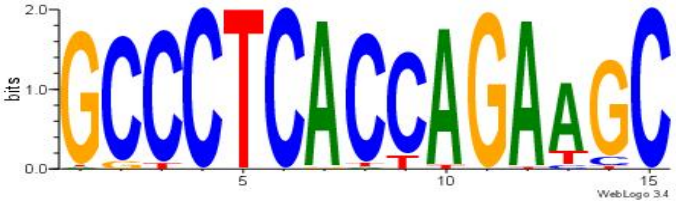

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

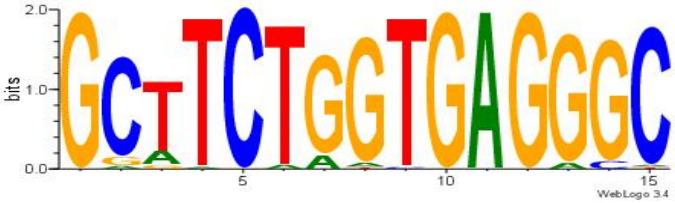

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	9
Similarity score:	0.0774269

Alignment:
TGTAKTCCCAGCTAC
CCCCGCCCC------

Original motif Consensus sequence: GTAGCTGGGAYTACA

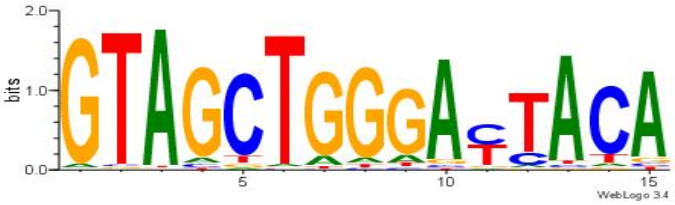

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

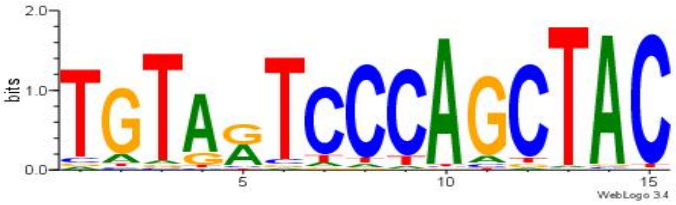

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	9
Similarity score:	0.0775055

Alignment:
CCCCGGGCAGTGAGGG
---GGGGCGGGG----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

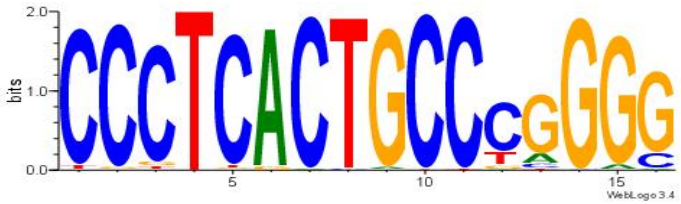

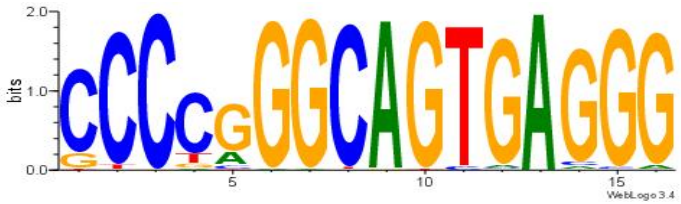

Dataset #: 1 Motif ID: 296 Motif name: Motif 296

Original motif Consensus sequence: CCACGTGG

Reverse complement motif Consensus sequence: CCACGTGG

Best Matches for Motif ID 296 (Highest to Lowest)

Dataset #:	1
Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0506234

Alignment:

```
CCATGTGSTCCC
CCACGTGG----
```

Original motif Consensus sequence: CCATGTGSTCCC

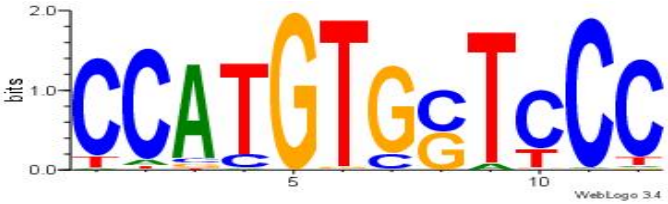

Reverse complement motif Consensus sequence: GGGASCACATGG

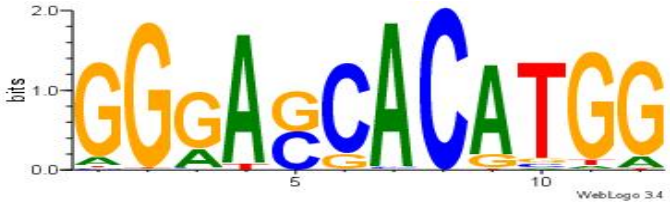

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0551535

Alignment:

```
GGATCCACTGGGTGAAGCCA
--------CCACGTGG----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

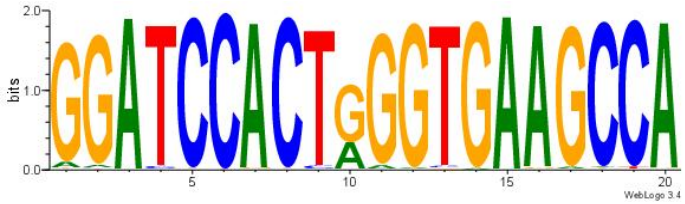

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

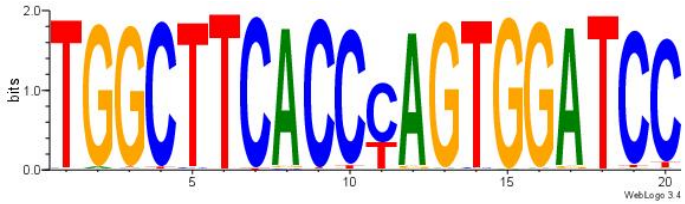

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0566616

Alignment:

```
CCCACGCCCACCCGGAACT
----CCACGTGG-------
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

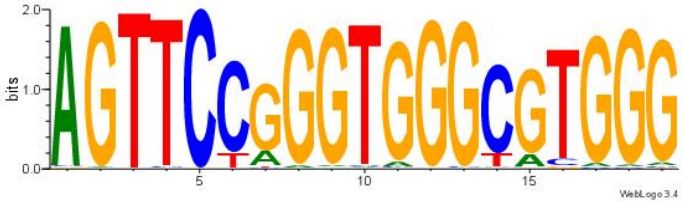

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

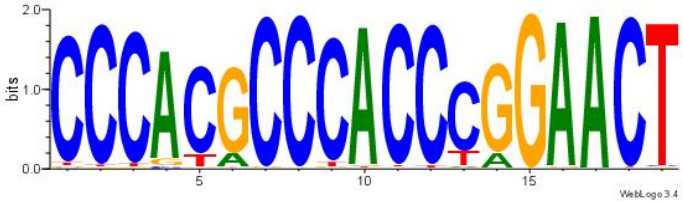

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13

Number of overlap: 8
Similarity score: 0.0583814

Alignment:
CAACATGGATGRARCTGGAG
----------CCACGTGG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

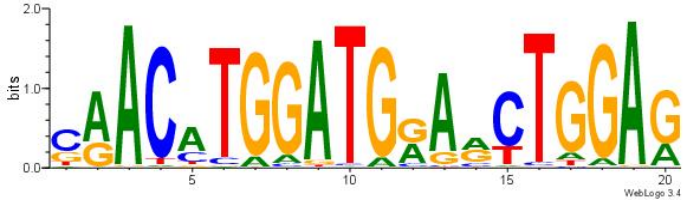

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

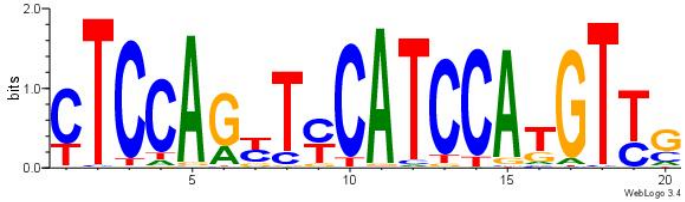

Dataset #: 1
Motif ID: 163
Motif name: Motif 163
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0613138

Alignment:
GGAGCCCACGGAGG
-----CCACGTGG-

Original motif Consensus sequence: CCTCCGTGGGCTCC

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

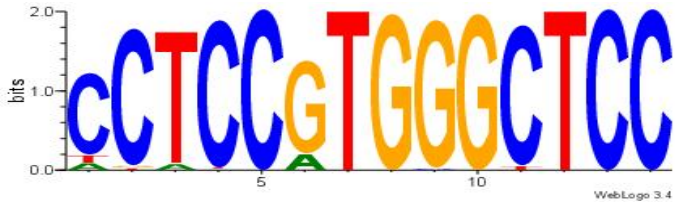

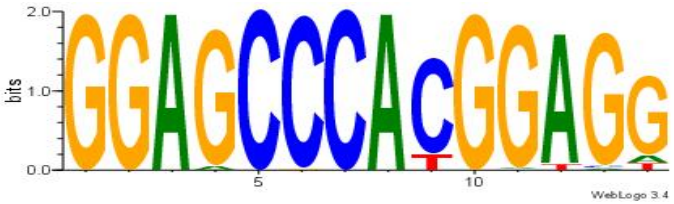

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0631918

Alignment:

```
GAGAACACATGGACA
---CCACGTGG----
```

Original motif Consensus sequence: GAGAACACATGGACA

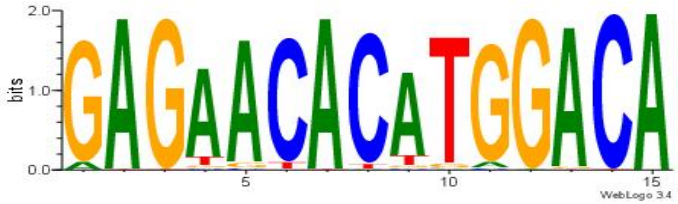

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

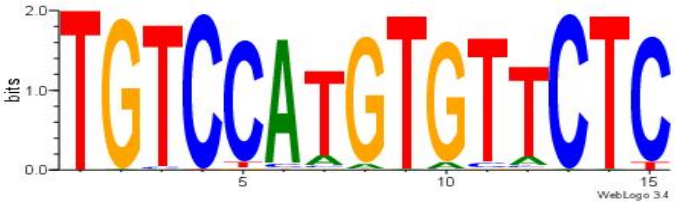

Dataset #:	1
Motif ID:	78

Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0648767

Alignment:

```
CCGCGGGGCAGGGCTCG
---------CCACGTGG
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

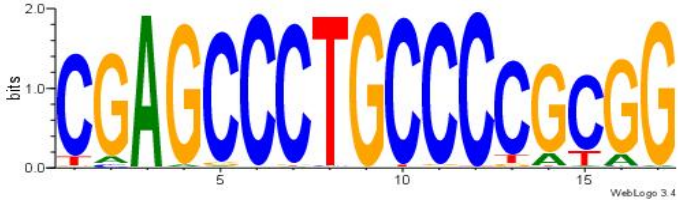

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

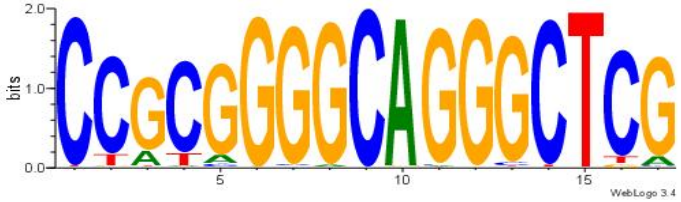

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0654981

Alignment:
CTACATGGACCTT
CCACGTGG-----

Original motif Consensus sequence: AAGGTCCATGTAG

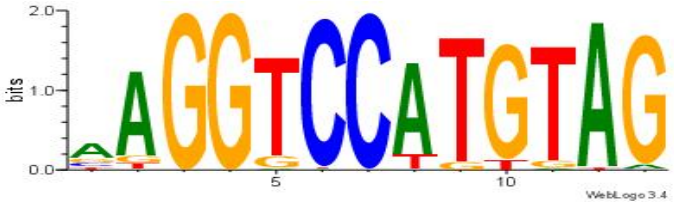

Reverse complement motif Consensus sequence: CTACATGGACCTT

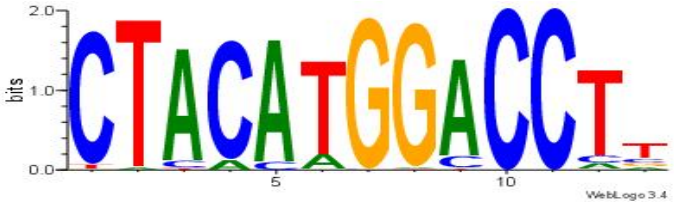

Dataset #:	1
Motif ID:	93
Motif name:	Motif 93
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0680404

Alignment:
CCATGTGCGG
--CCACGTGG

Original motif Consensus sequence: CCATGTGCGG

Reverse complement motif Consensus sequence: CCGCACATGG

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0699602

Alignment:

```
GCCAATTTCTCCCATTTGGA
-CCACGTGG-----------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

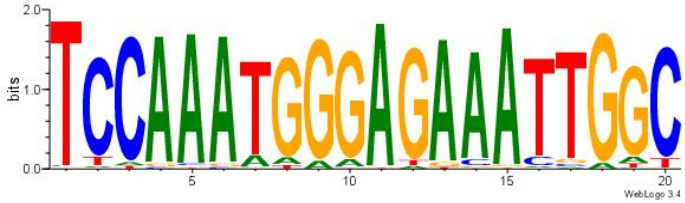

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

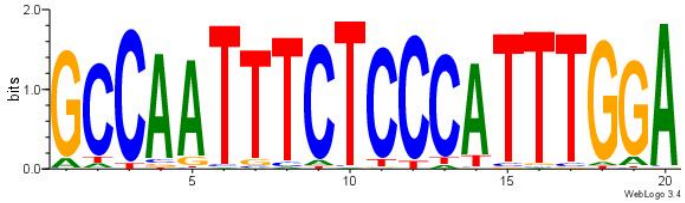

Dataset #: 1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0731999

Alignment:

```
GAGACTCCGTGGGCGT
----CCACGTGG----
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

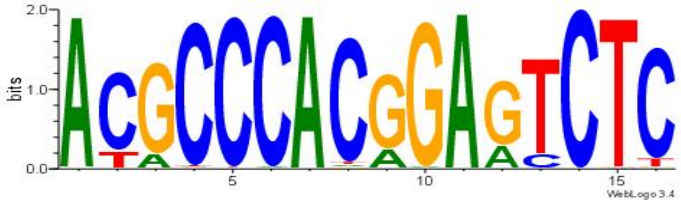

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

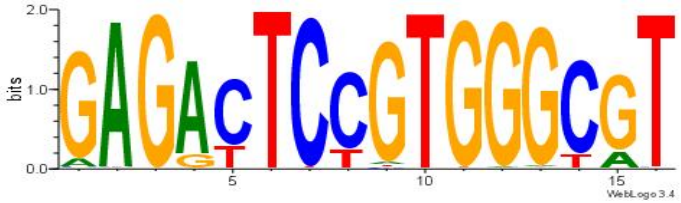

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0791258

Alignment:
CTTGCGCTTCCCRRGTGA
CCACGTGG----------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

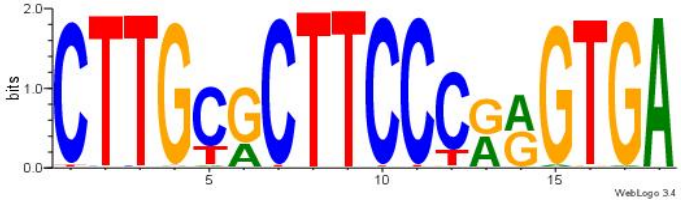

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

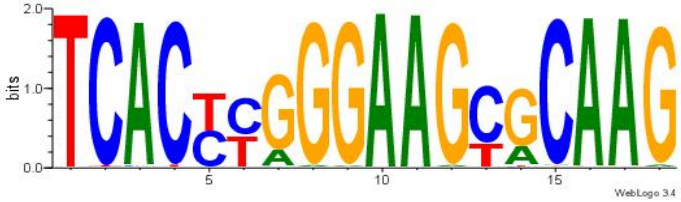

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0791749

Alignment:
CTCCTGACCTCGTGATC
--CCACGTGG-------

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

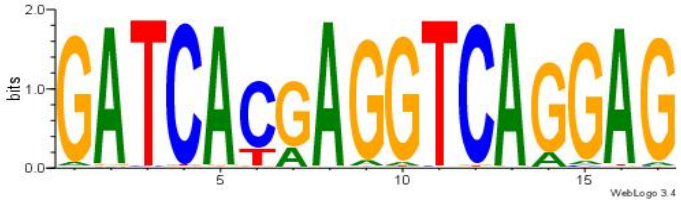

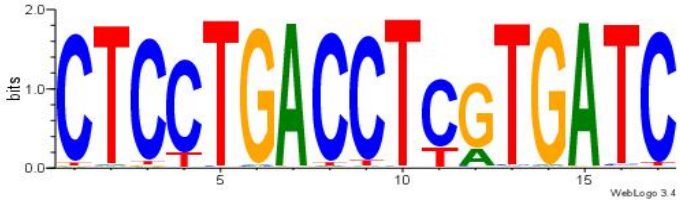

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0807014

Alignment:

```
CCATCTAGGAAGTG
------CCACGTGG
```

Original motif Consensus sequence: CACTTCCTAGATGG

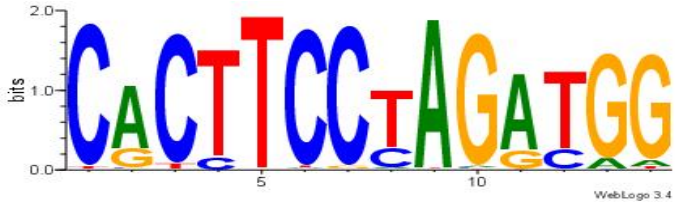

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

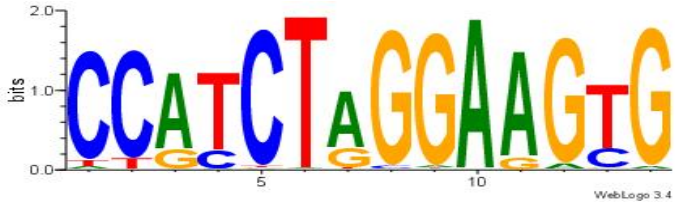

Dataset #:	1
Motif ID:	149

Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0812711

Alignment:

```
GGGTGCAGGMGGGCTGAGT
-------CCACGTGG----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

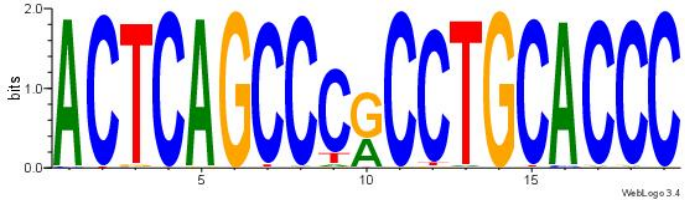

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

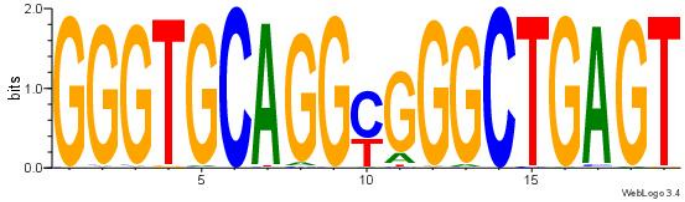

Dataset #:	1
Motif ID:	140
Motif name:	Motif 140
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0812908

Alignment:
GACTTCATGGAG
--CCACGTGG--

Original motif Consensus sequence: CTCCATGAAGTC

Reverse complement motif Consensus sequence: GACTTCATGGAG

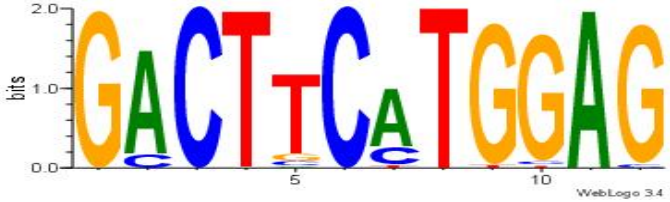

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0833022

Alignment:
GCTGGCCCKGGTGCTAAGC
-----CCACGTGG------

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

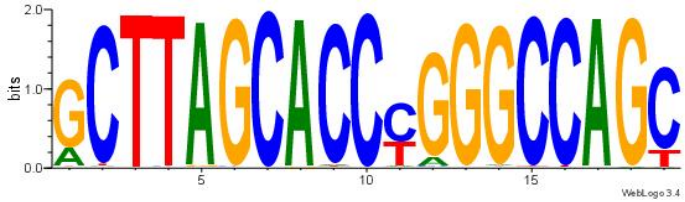

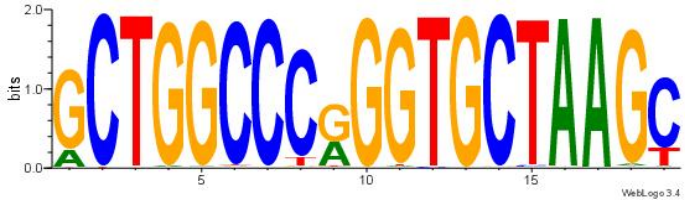

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 8
Similarity score: 0.083855

Alignment:
GCCKGGMKCMGTGGCTCAKG
------CCACGTGG------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

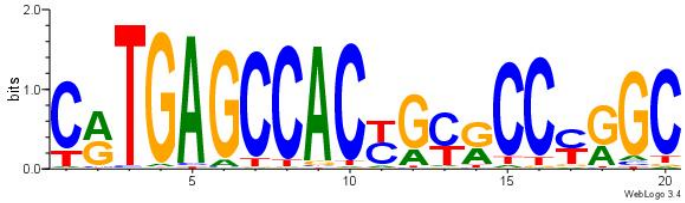

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

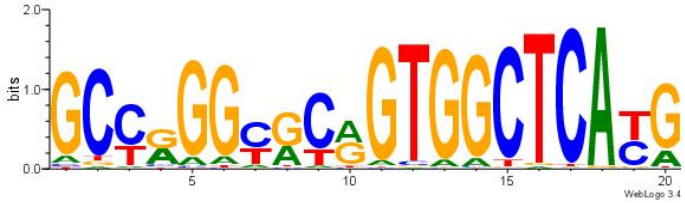

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0857268

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
----------CCACGTGG--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

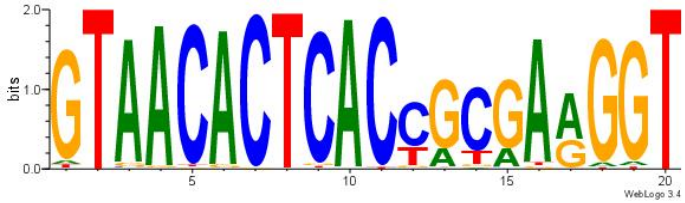

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

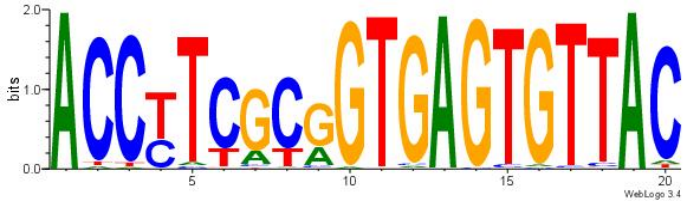

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8

Similarity score: 0.0864122

Alignment:
GCCKCCCCGTCCGGGAGGGA
--CCACGTGG----------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

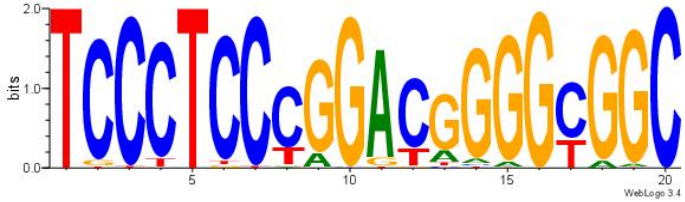

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

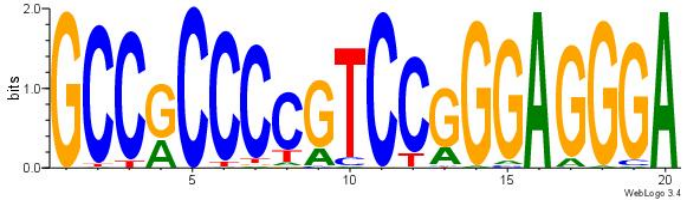

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.087839

Alignment:
CACCAGGAGATTATATCCCR
--CCACGTGG----------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

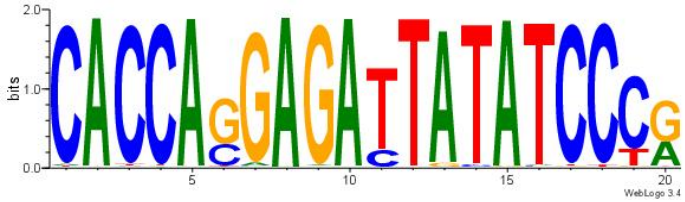

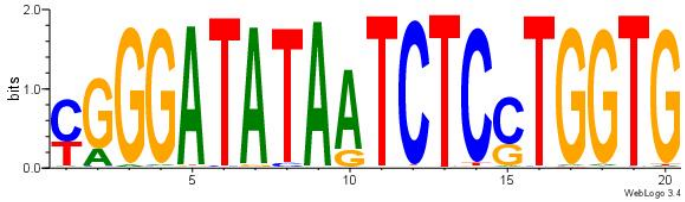

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0882211

Alignment:

```
CCGCTGCACTGTGGGAGCCC
------CCACGTGG------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

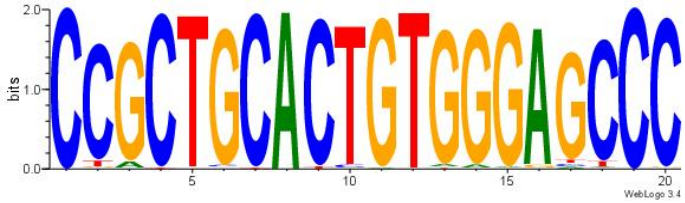

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

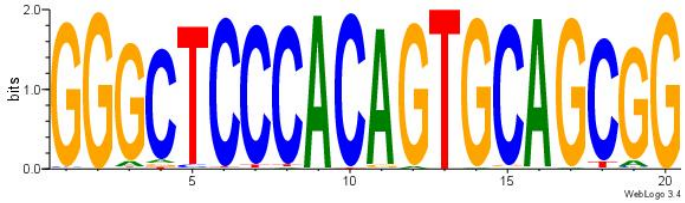

Dataset #: 1

Motif ID:	90
Motif name:	Motif 90
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0884381

Alignment:

```
CCCCATTGCY
--CCACGTGG
```

Original motif Consensus sequence: CCCCATTGCY

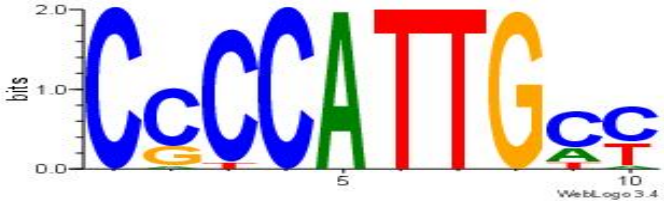

Reverse complement motif Consensus sequence: KGCAATGGGG

Dataset #:	1
Motif ID:	200
Motif name:	Motif 200
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.088595

Alignment:
ACCCCGTCTGGGA
----CCACGTGG-

Original motif Consensus sequence: ACCCCGTCTGGGA

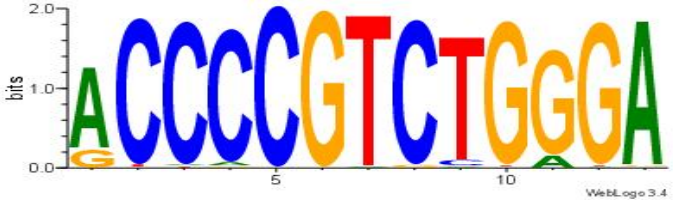

Reverse complement motif Consensus sequence: TCCCAGACGGGGT

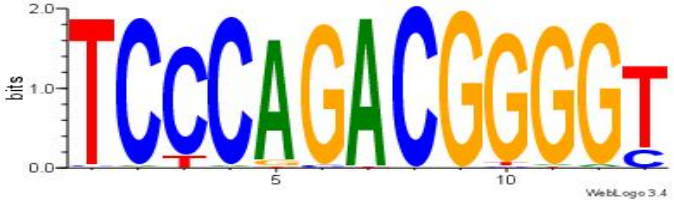

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0888919

Alignment:
AGGAGRCMCTCTGCCTGGC
-CCACGTGG----------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

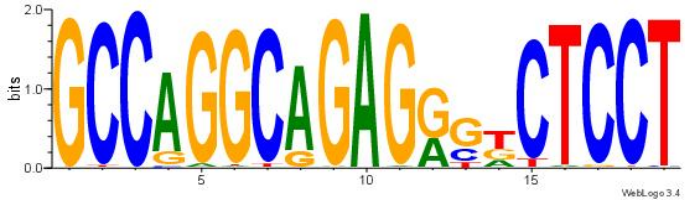

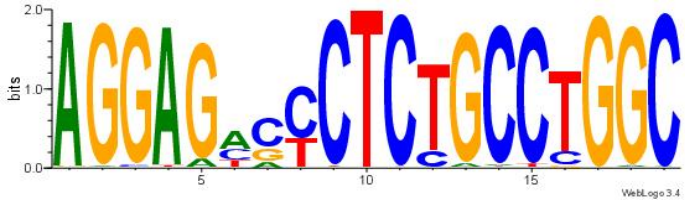

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0890655

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
--------CCACGTGG----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

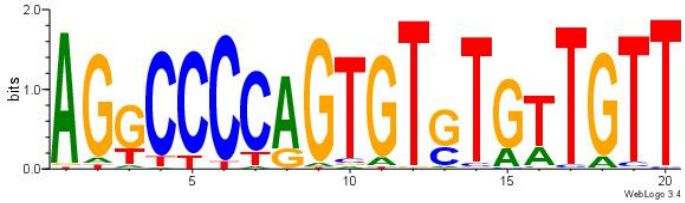

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

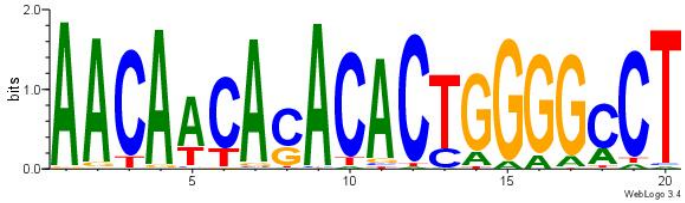

Dataset #: 1

Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.089104

Alignment:

```
CTCARGTGATCCTCC
------CCACGTGG-
```

Original motif Consensus sequence: CTCARGTGATCCTCC

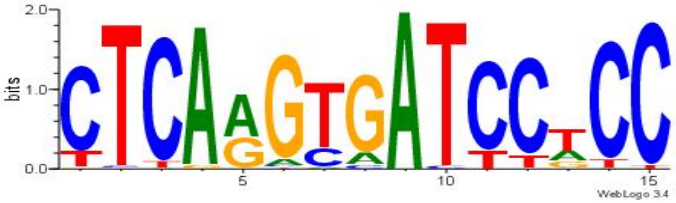

Reverse complement motif Consensus sequence: GGAGGATCACKTG

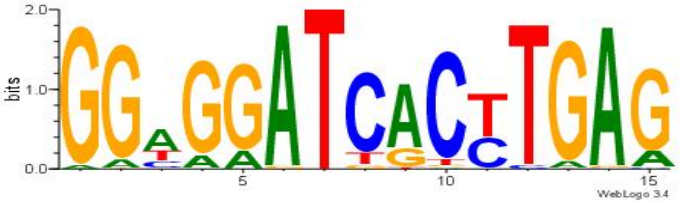

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0901495

Alignment:
ATACAATGGGGGTACAGRC
---CCACGTGG--------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

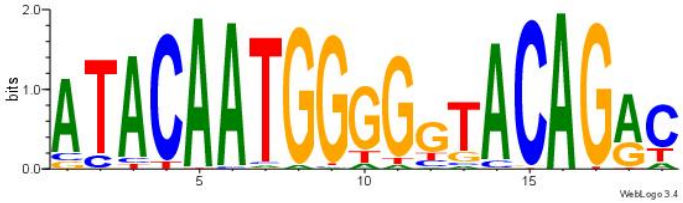

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

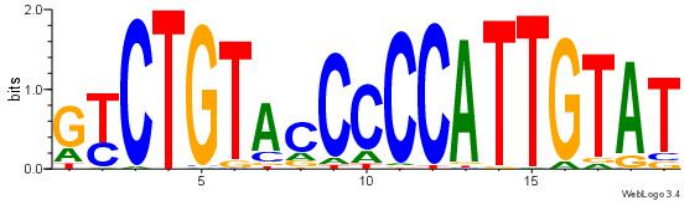

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0904162

Alignment:
AATAAACATGG
---CCACGTGG

Original motif Consensus sequence: AATAAACATGG

Reverse complement motif Consensus sequence: CCATGTTTATT

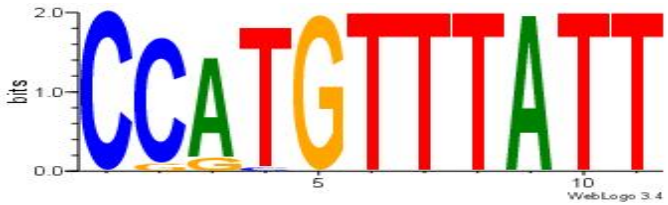

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0904457

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-CCACGTGG-----------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

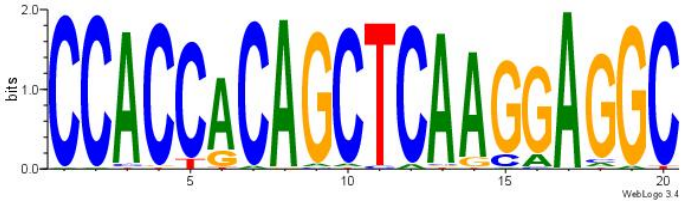

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

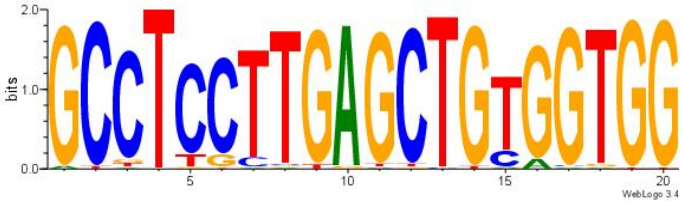

Dataset #: 1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0907271

Alignment:

```
AGACCAGCCTGGCCAAC
-----CCACGTGG----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

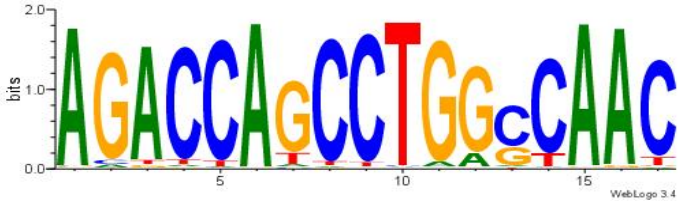

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

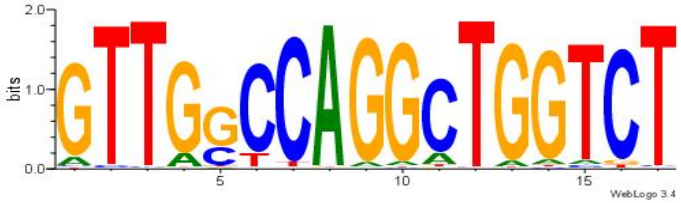

Dataset #:	1
Motif ID:	71
Motif name:	Motif 71
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8

Similarity score: 0.0909097

Alignment:
AGCACTTTG
CCACGTGG-

Original motif Consensus sequence: AGCACTTTG

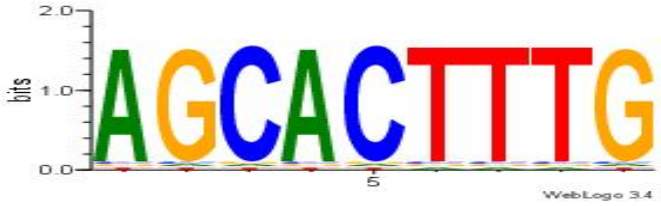

Reverse complement motif Consensus sequence: CAAAGTGCT

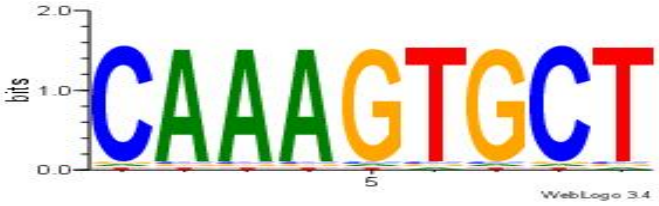

Dataset #: 1
Motif ID: 360
Motif name: Motif 360
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 8
Similarity score: 0.0909097

Alignment:
CAATGGGGTG
CCACGTGG--

Original motif Consensus sequence: CAATGGGGTG

Reverse complement motif Consensus sequence: CACCCCATTG

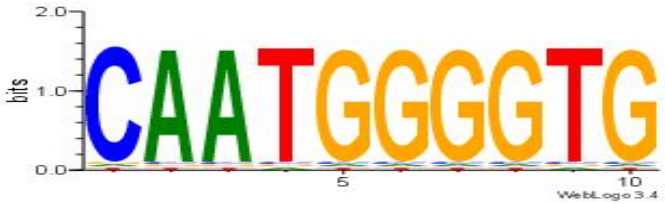

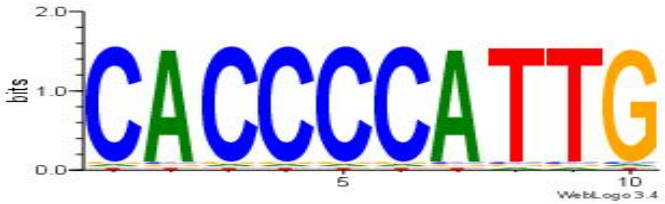

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0911699

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-------CCACGTGG-----
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

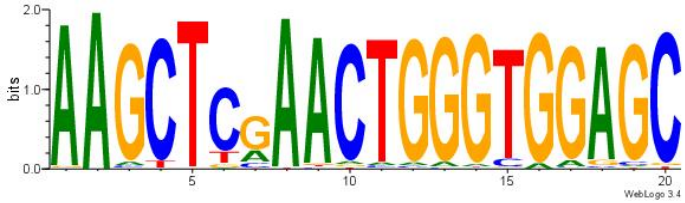

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

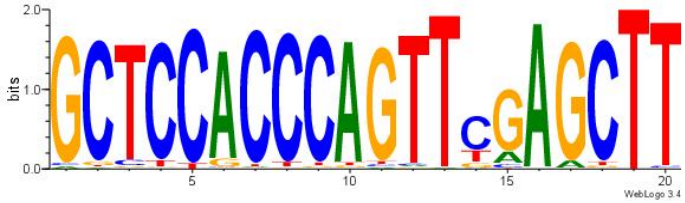

Dataset #: 1

Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0916921

Alignment:

```
AGCGACATGTGC
--CCACGTGG--
```

Original motif Consensus sequence: AGCGACATGTGC

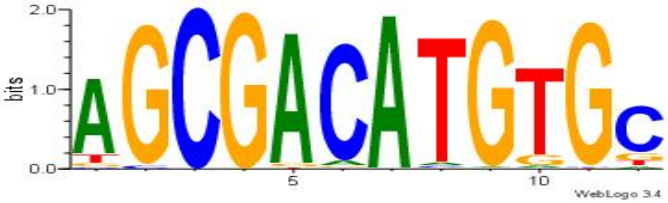

Reverse complement motif Consensus sequence: GCACATGTCGCT

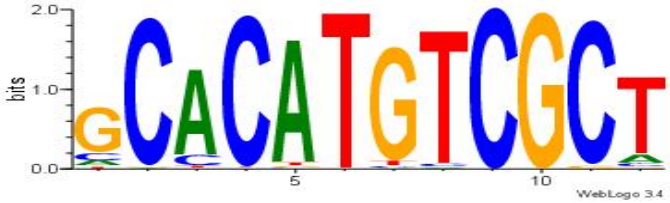

Dataset #:	1
Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0919962

Alignment:
GTGAGCGACGCAG
-----CCACGTGG

Original motif Consensus sequence: CTGCGTCGCTCAC

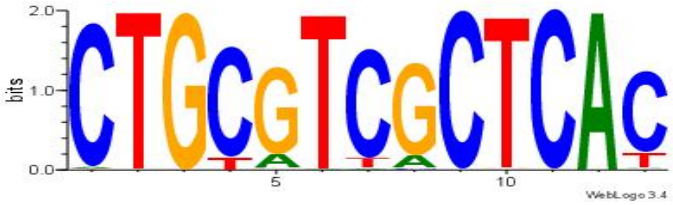

Reverse complement motif Consensus sequence: GTGAGCGACGCAG

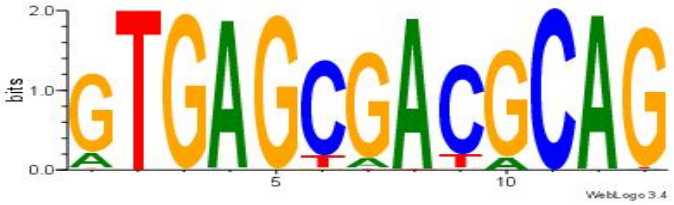

Dataset #:	1
Motif ID:	114
Motif name:	Motif 114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.092263

Alignment:
GAGAACGTAG
CCACGTGG--

Original motif Consensus sequence: CTACGTTCTC

Reverse complement motif Consensus sequence: GAGAACGTAG

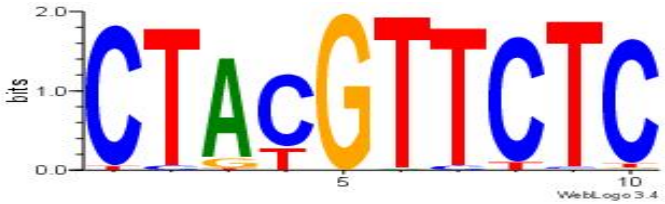

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0924215

Alignment:

```
AGGGATCTAGGTTGCR
------CCACGTGG--
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

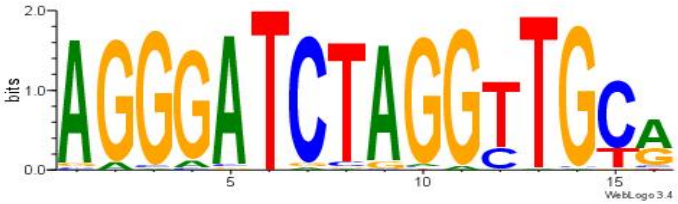

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

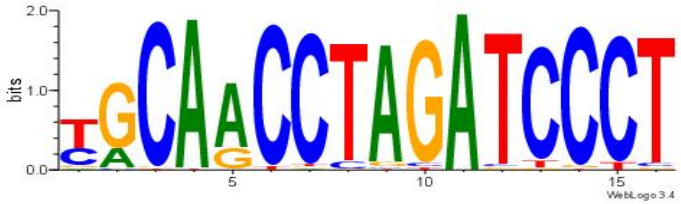

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0930653

Alignment:

```
GAAHCAACCKAAKTGTCCAT
----CCACGTGG--------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

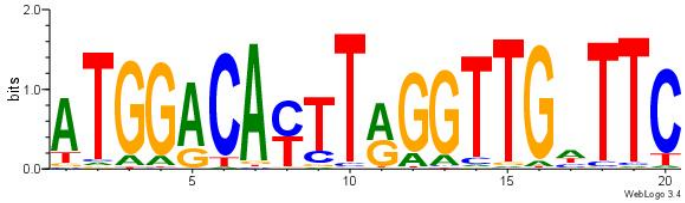

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

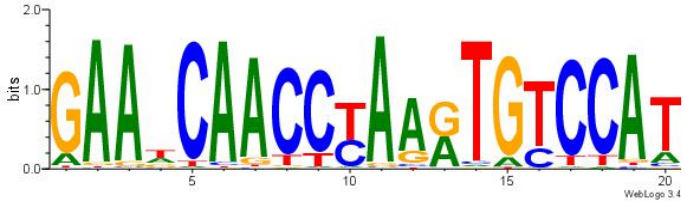

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8

Similarity score: 0.0931752

Alignment:
GCTCTCAATTGGTCATT
----CCACGTGG-----

Original motif Consensus sequence: AATGACCAATTGAGAGC

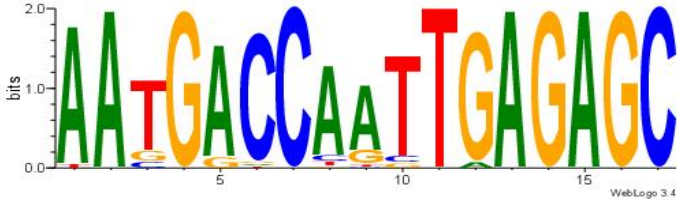

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

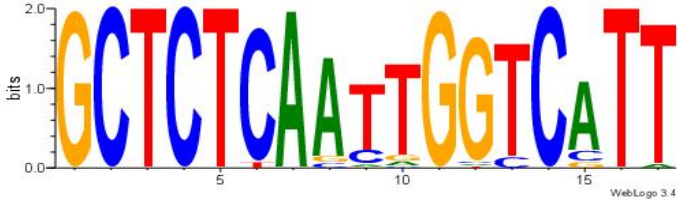

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 8
Similarity score: 0.0940159

Alignment:
AAGACCTTCCAGTGGGACAA
----CCACGTGG--------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

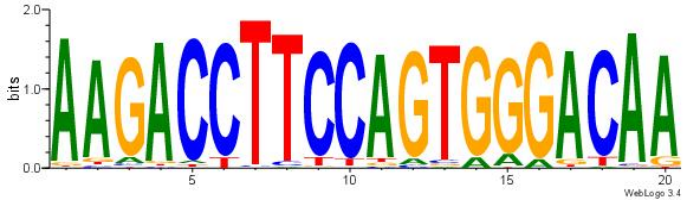

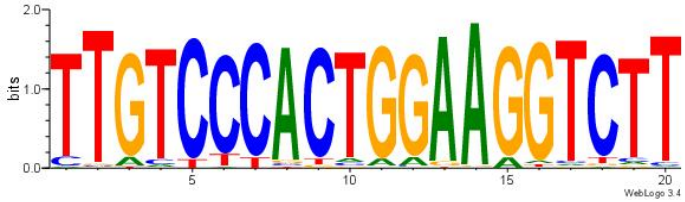

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0942796

Alignment:

```
GGMGCKGTGGCTC
--CCACGTGG---
```

Original motif Consensus sequence: GAGCCACYGCRCC

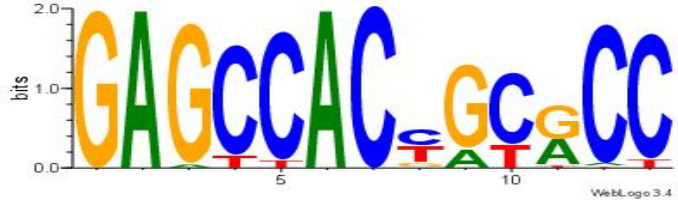

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0943454

Alignment:

```
GCACATGTAYCCYAGAACTT
CCACGTGG------------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

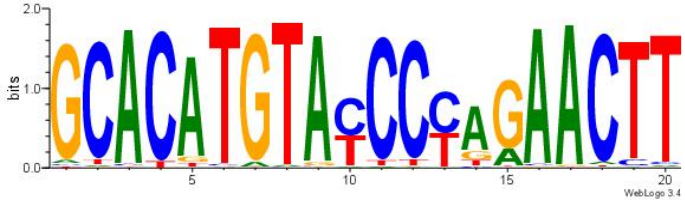

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

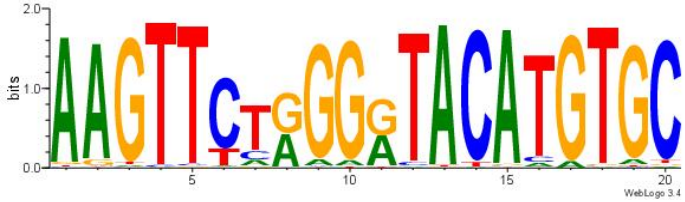

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.094483

Alignment:
GGTGCCAGCTGT
----CCACGTGG

Original motif Consensus sequence: ACAGCTGGCACC

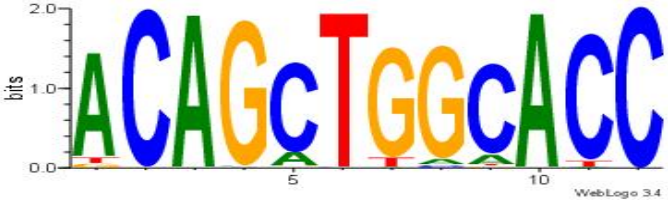

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

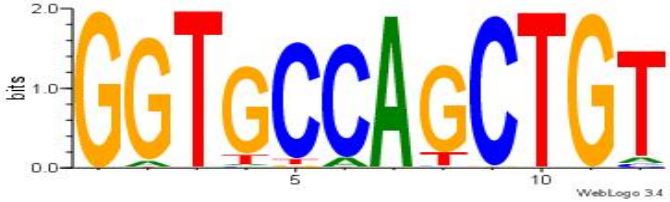

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0947204

Alignment:
ACTGTCTTCCACCTCCACAT
----CCACGTGG--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

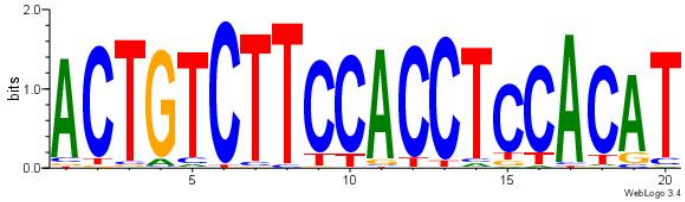

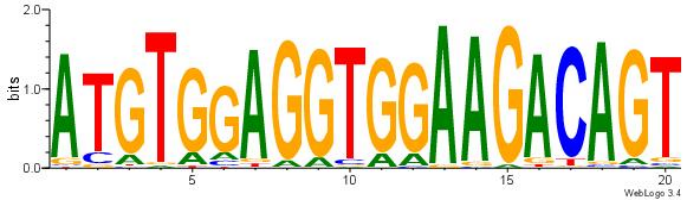

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0950399

Alignment:

```
AGAAAGGCATGTGAAAA
------CCACGTGG---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

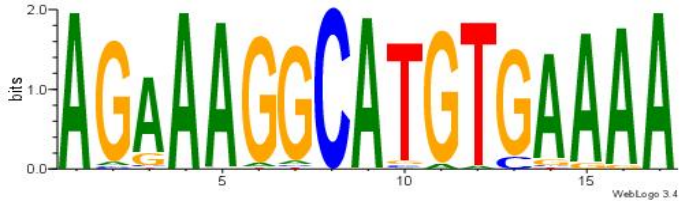

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

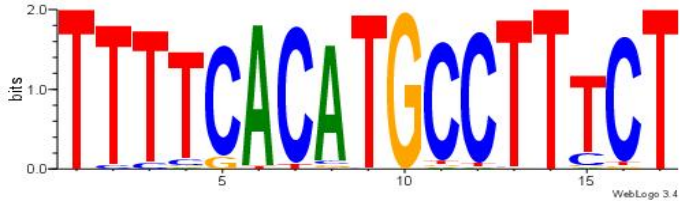

Dataset #: 1

Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0953353

Alignment:

```
CCGCACTCGGAGCRG
-----CCACGTGG--
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

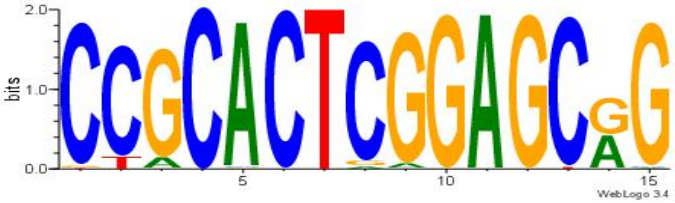

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

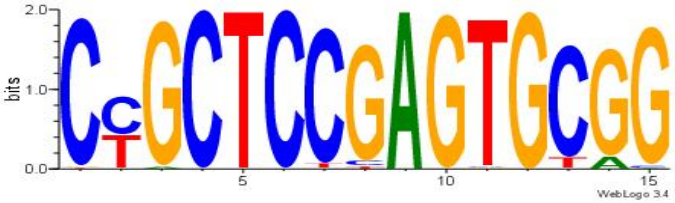

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8

Similarity score: 0.0955857

Alignment:
CAAGATGGCGGC
----CCACGTGG

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

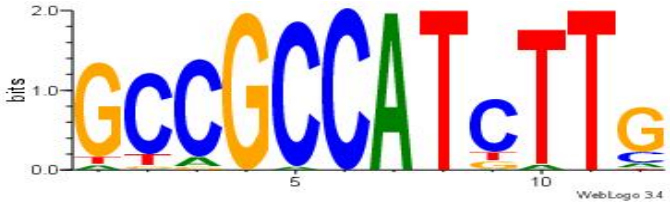

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 8
Similarity score: 0.095698

Alignment:
ATCTGACAGGAGGYRGAGCT
-------CCACGTGG-----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

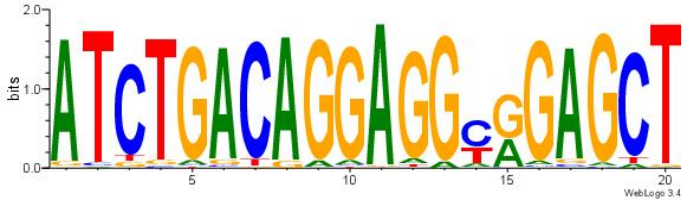

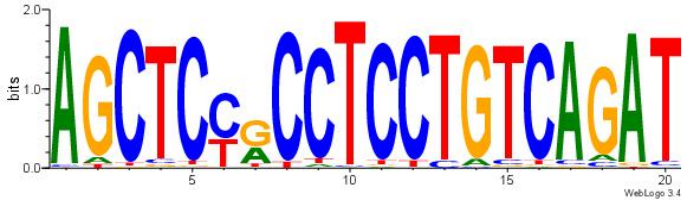

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0960612

Alignment:

```
CATTTCCAWCTGAGGTAC
-----CCACGTGG-----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

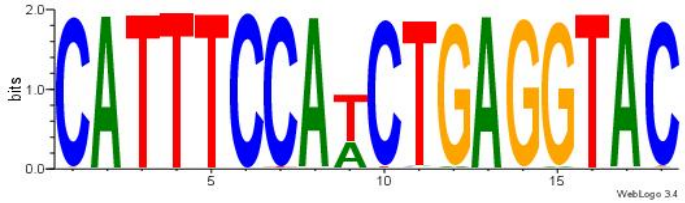

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

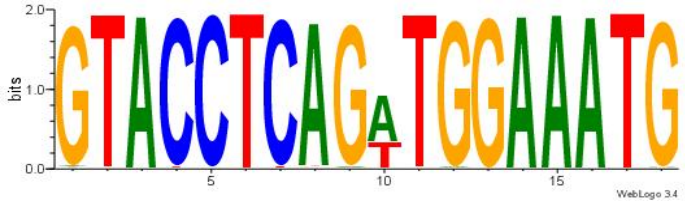

Dataset #: 1 Motif ID: 297 Motif name: Motif 297

Original motif Consensus sequence: ACCAATCAGCA

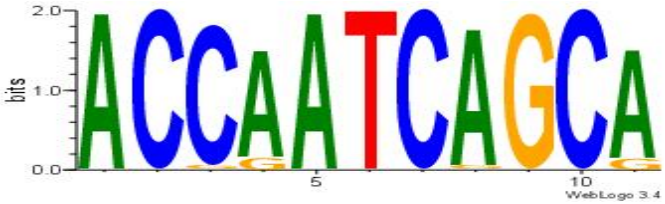

Reverse complement motif Consensus sequence: TGCTGATTGGT

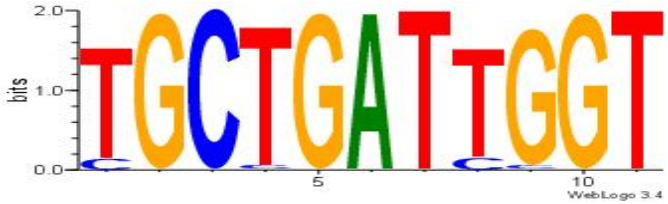

Best Matches for Motif ID 297 (Highest to Lowest)

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0606967

Alignment:

```
TAGTGGTGATTTSTGAGAT
---TGCTGATTGGT-----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

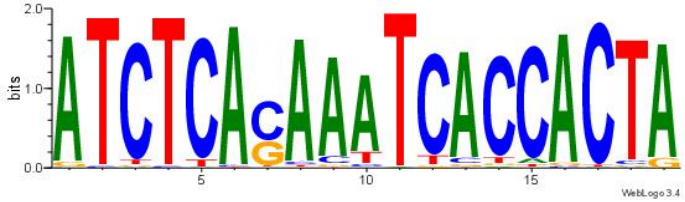

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

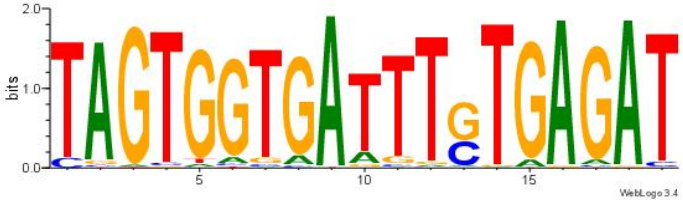

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0632904

Alignment:

```
CAGGTGGTKTTTGGTTACAT
----TGCTGATTGGT-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

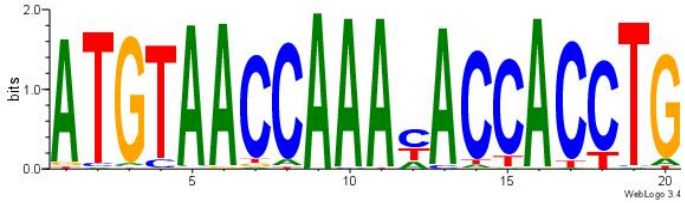

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

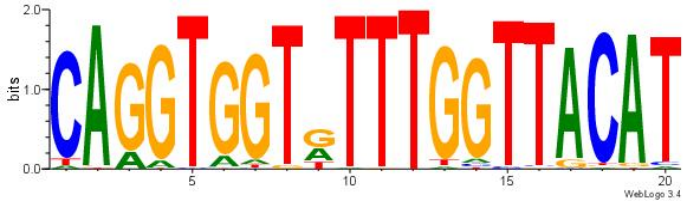

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 11
Similarity score: 0.0719846

Alignment:
GTGTGCGAATAGGTGT
---TGCTGATTGGT--

Original motif Consensus sequence: ACACCTATTCGCACAC

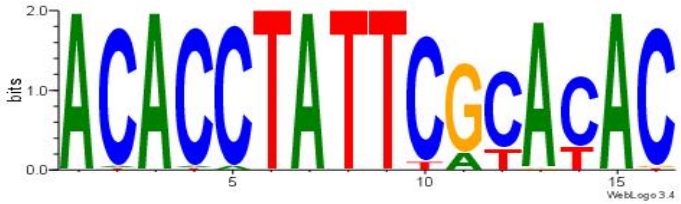

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

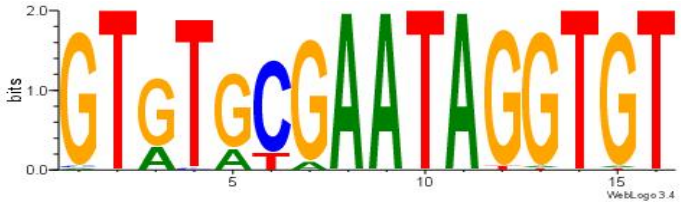

Dataset #: 1
Motif ID: 363
Motif name: Motif 363
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0728365

Alignment:
WACAATCAGACCTTG
ACCAATCAGCA----

Original motif Consensus sequence: CAAGGTCTGATTGTW

Reverse complement motif Consensus sequence: WACAATCAGACCT

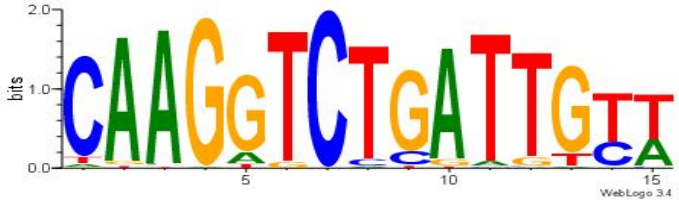

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0840444

Alignment:

```
AAGACGGGTGATTTCTG
-----TGCTGATTGGT-
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

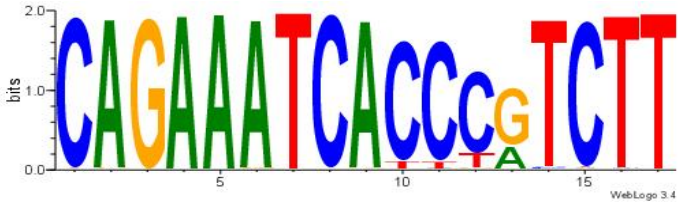

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

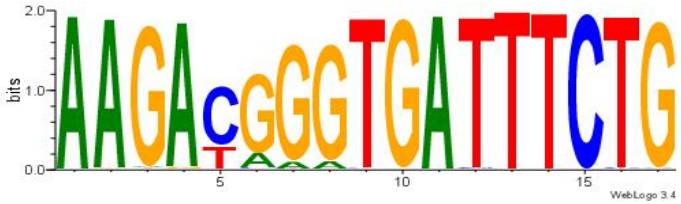

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0855227

Alignment:

```
ATGGCTGAATAKTATTCCAT
--TGCTGATTGGT-------
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

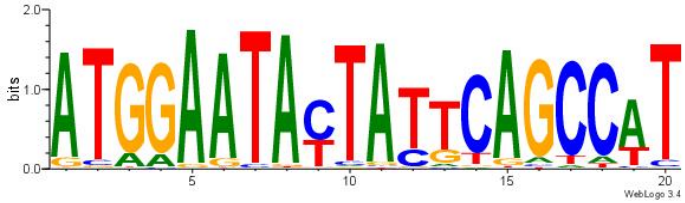

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

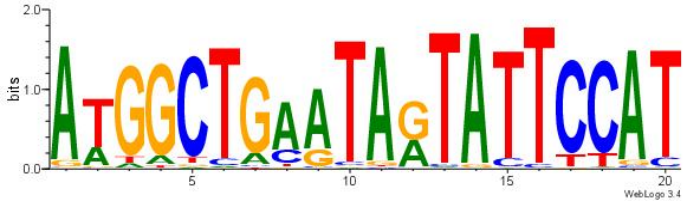

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0863932

Alignment:
GGCTGAGGAGTGCG
TGCTGATTGGT---

Original motif Consensus sequence: CGCACTCCTCAGCC

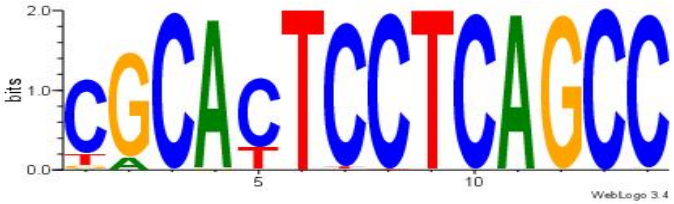

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

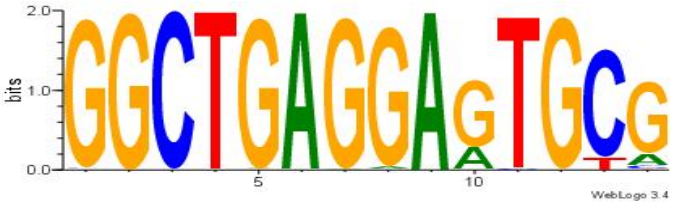

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.0871586

Alignment:
GAAACTGCTTTGTGATGTGT
---------TGCTGATTGGT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

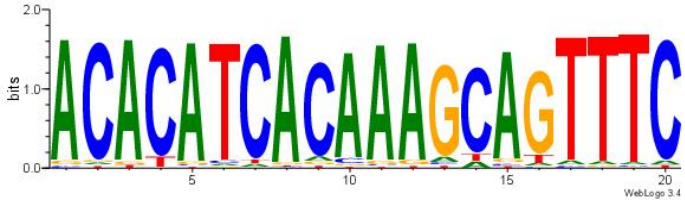

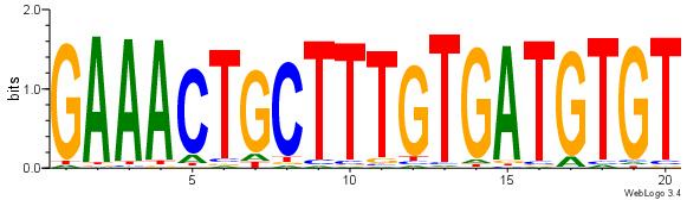

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0896766

Alignment:

```
CACTTTCCAGACTGGGCA
-----TGCTGATTGGT--
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

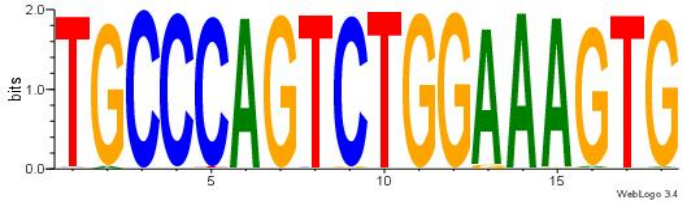

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

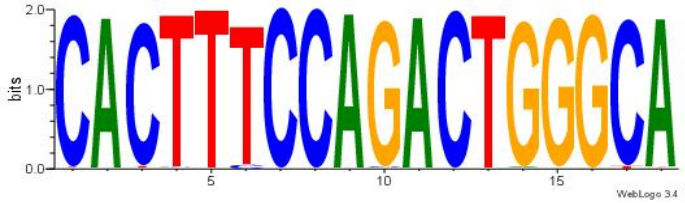

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0902918

Alignment:

```
GTAACACTCACCGCGARGGT
--ACCAATCAGCA-------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

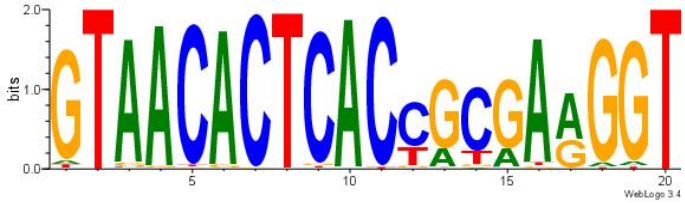

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

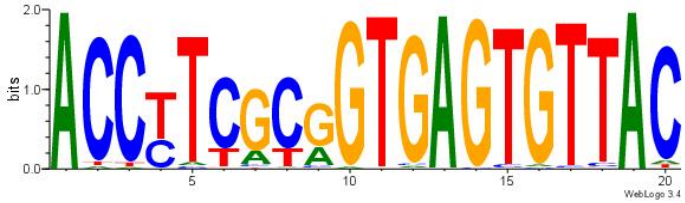

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11

Similarity score: 0.0926809

Alignment:
AGTTGTAATTGGGAGACTT
------TGCTGATTGGT--

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

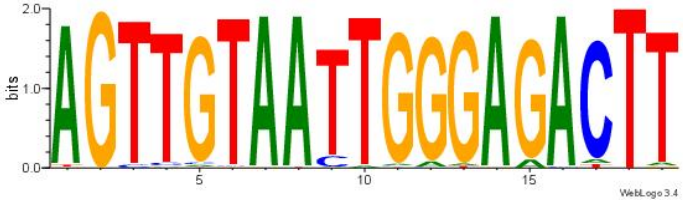

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

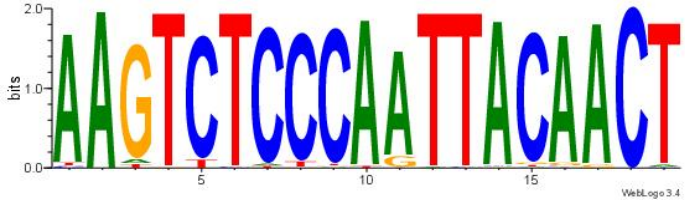

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0931896

Alignment:
TTCAMTCATGATTTGGCTCT
-----TGCTGATTGGT----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

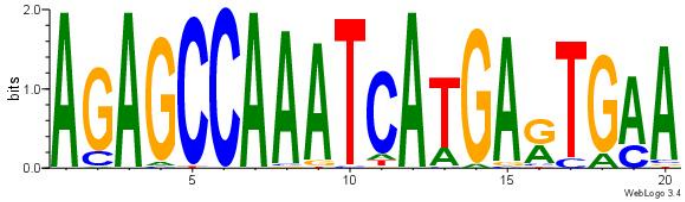

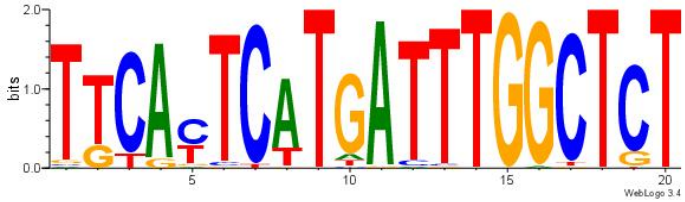

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0941985

Alignment:

```
AGTGTTTCCAAMCTGCT
------ACCAATCAGCA
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

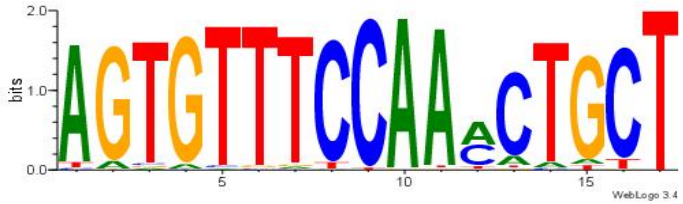

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

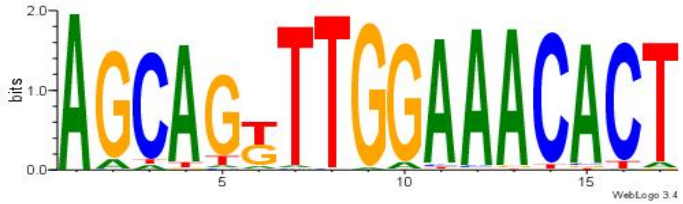

Dataset #: 1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.095003

Alignment:

```
KGGGCDGAGGGGCTCCT
--TGCTGATTGGT----
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

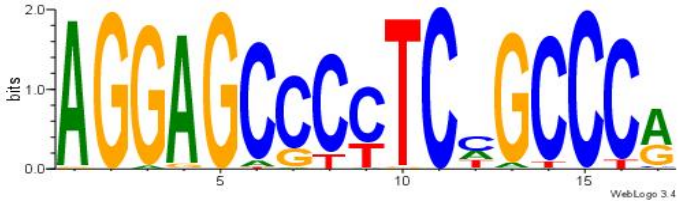

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0950204

Alignment:
GTTTAACCATTGAGGGCCAG
-----ACCAATCAGCA----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

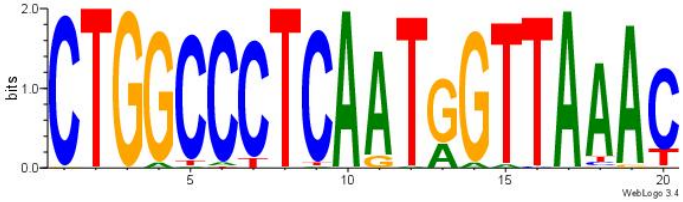

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

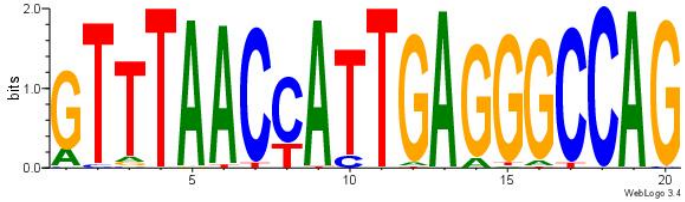

Dataset #: 1
Motif ID: 182
Motif name: Motif 182
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0966079

Alignment:
TGGGTTCYTGGTC
-TGCTGATTGGT-

Original motif Consensus sequence: GACCAMGAACCCA

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

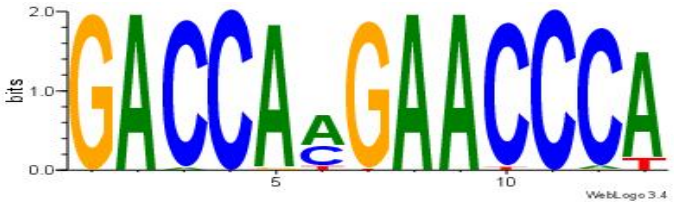

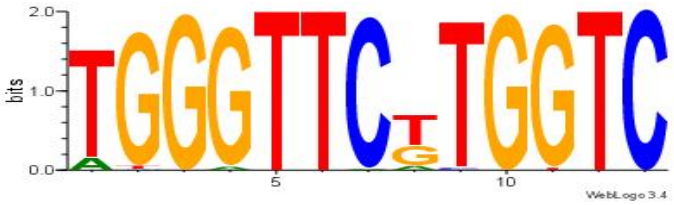

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0967497

Alignment:
AAATTAGGCCAATTAATAAC
-------ACCAATCAGCA--

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

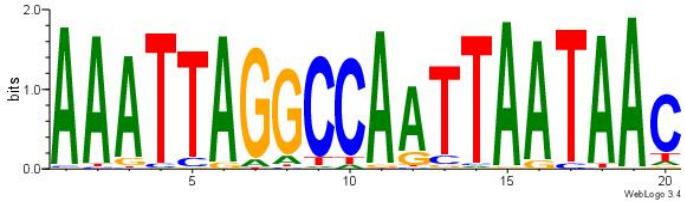

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0969441

Alignment:

```
TAAAAGACTACAWATTGGGT
-TGCTGATTGGT--------
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

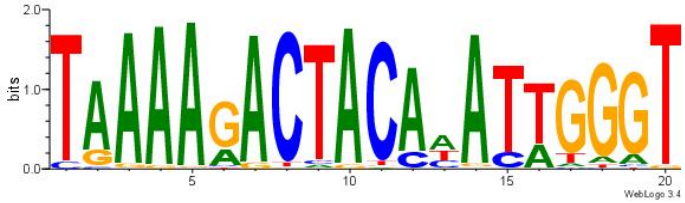

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

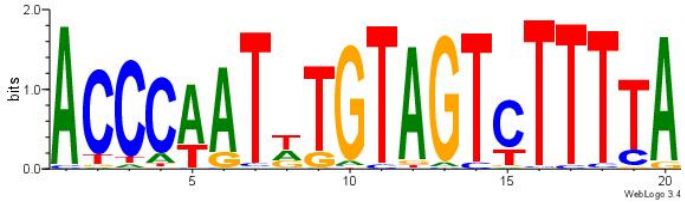

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0984101

Alignment:
CGAGCCTCCCCGAYGAGCGC
--------ACCAATCAGCA-

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

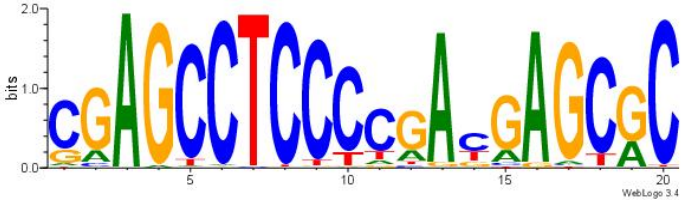

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

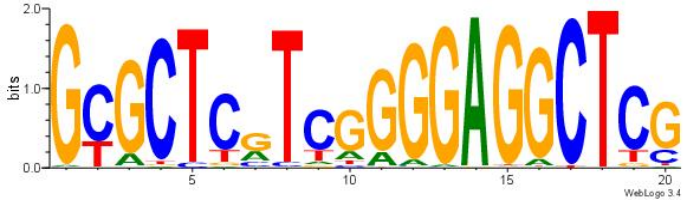

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0985572

Alignment:
AATGACCAATTGAGAGC
----ACCAATCAGCA--

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

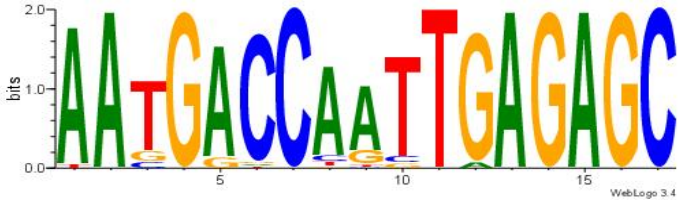

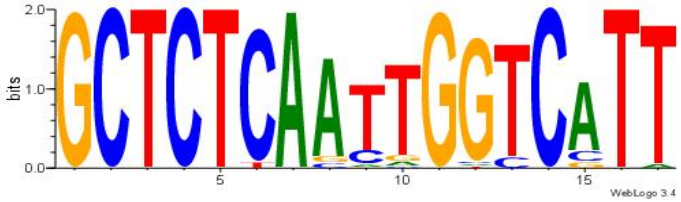

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0985961

Alignment:

```
ATGATCCAGCAATYCCACTH
ACCAATCAGCA---------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

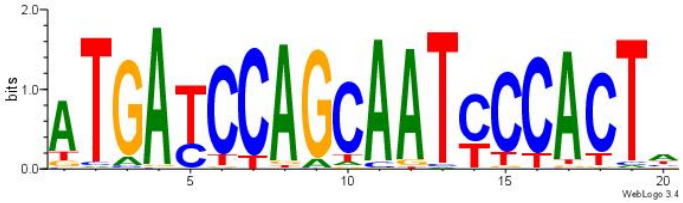

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

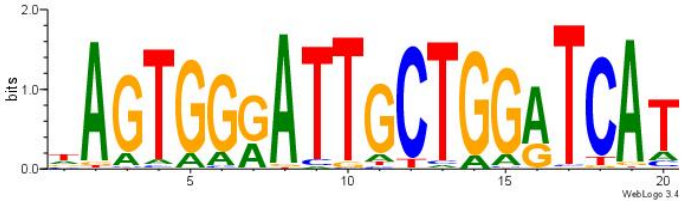

Dataset #: 1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0988865

Alignment:

```
CATTAGATTCTCATAGGA
TGCTGATTGGT-------
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

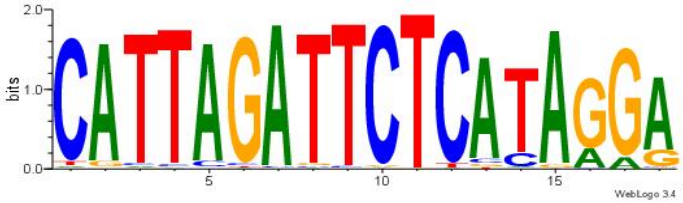

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

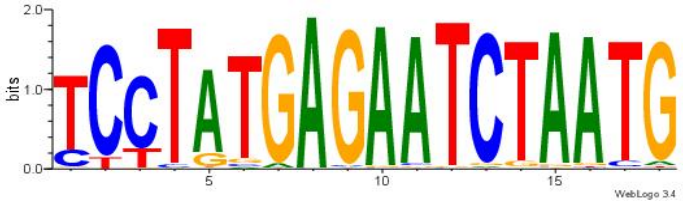

Dataset #:	1
Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.101107

Alignment:
CCATGATTGTRAGG
---TGCTGATTGGT

Original motif Consensus sequence: CCATGATTGTRAGG

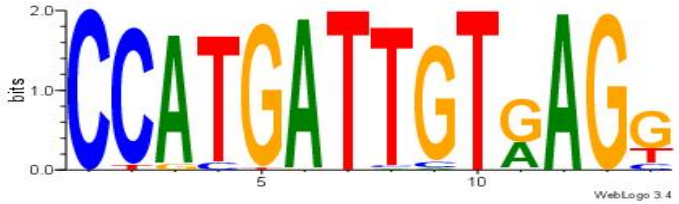

Reverse complement motif Consensus sequence: CCTMACAATCATG

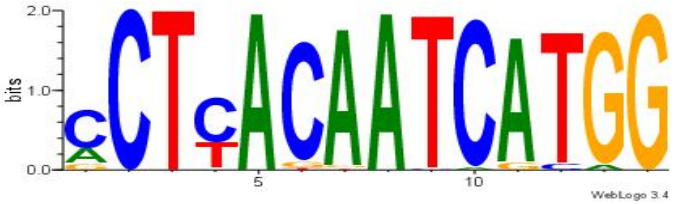

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.101929

Alignment:
CGCCCATCGTCTGGGATGT
-------ACCAATCAGCA-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

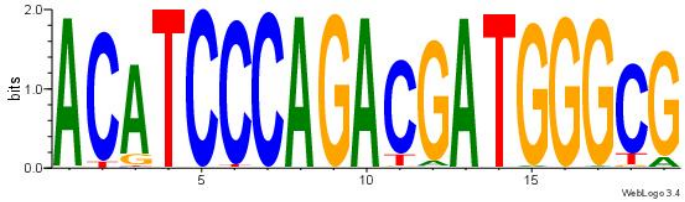

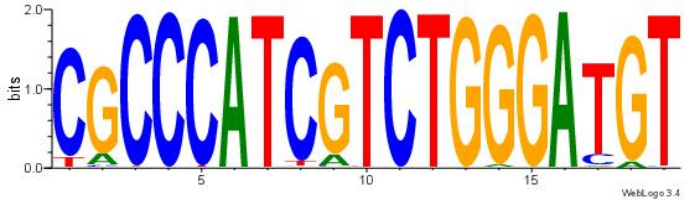

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.102565

Alignment:

```
ACTCAGCCCRCCTGCACCC
-----ACCAATCAGCA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

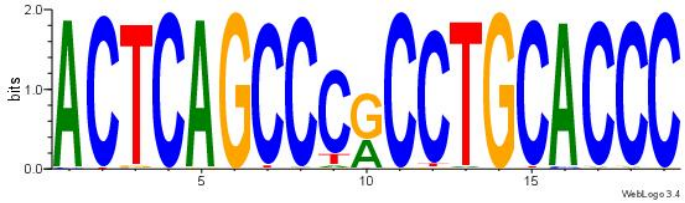

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

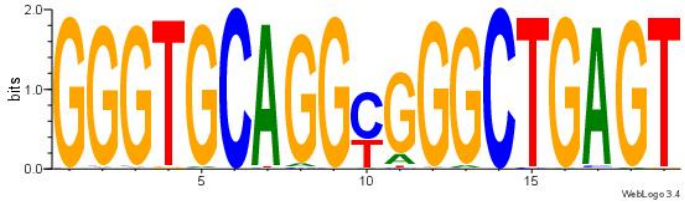

Dataset #: 1

Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.103254

Alignment:

```
GGGGTGATGGACG
-TGCTGATTGGT-
```

Original motif Consensus sequence: CGTCCATCACCCC

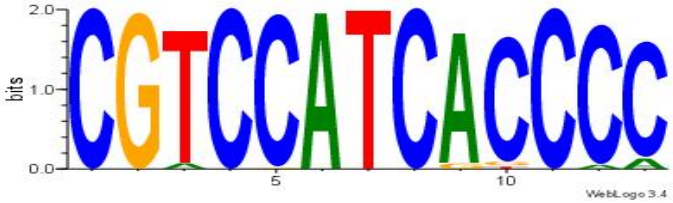

Reverse complement motif Consensus sequence: GGGGTGATGGACG

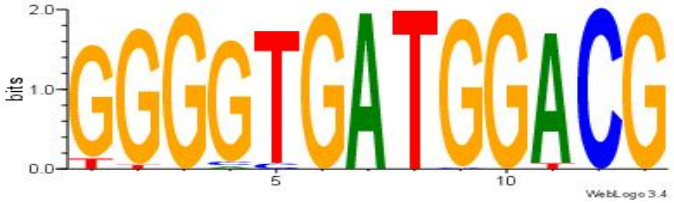

Dataset #:	1
Motif ID:	148
Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.104236

Alignment:
AAAGAGAGTCAGCGAAG
---ACCAATCAGCA---

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

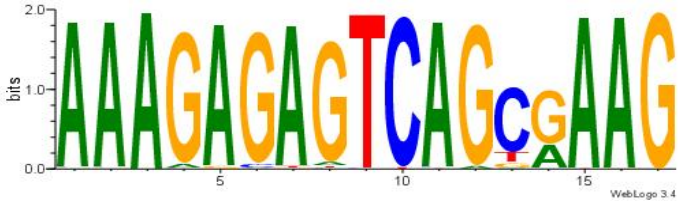

Reverse complement motif Consensus sequence:
CTTCGCTGACTCTCTTT

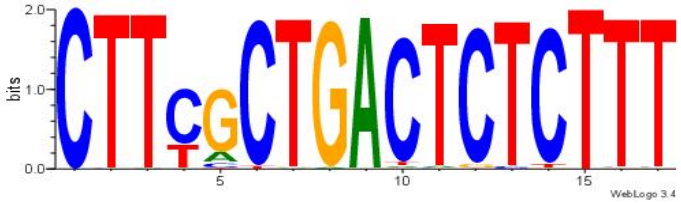

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.10425

Alignment:
GCCAGTCACAAAARGACAMA
ACCAATCAGCA---------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

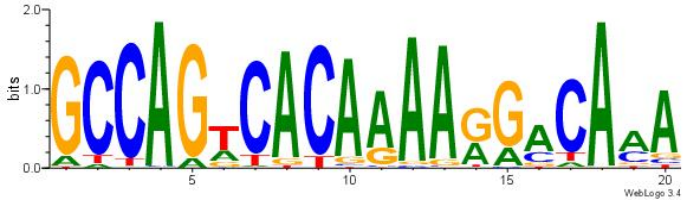

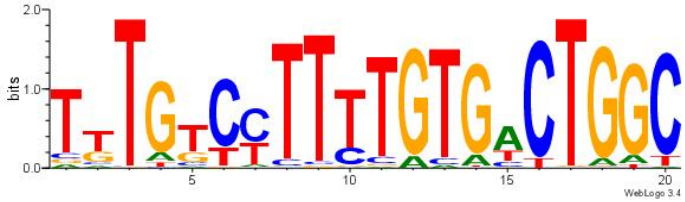

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.104473

Alignment:

```
AGCTCCCAGCGTGAGCGACG
ACCAATCAGCA---------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

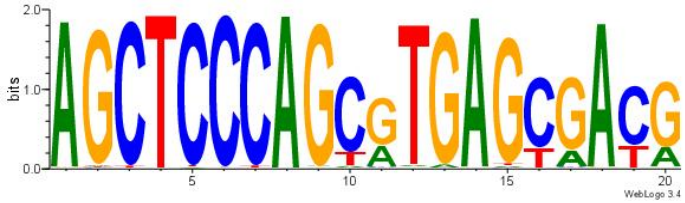

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

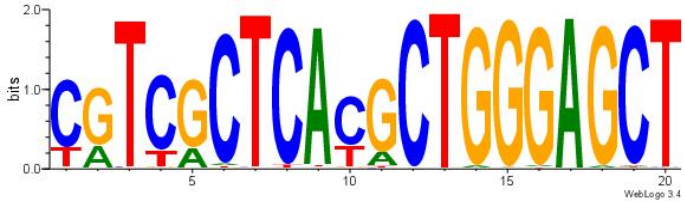

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.104884

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
----TGCTGATTGGT-----
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

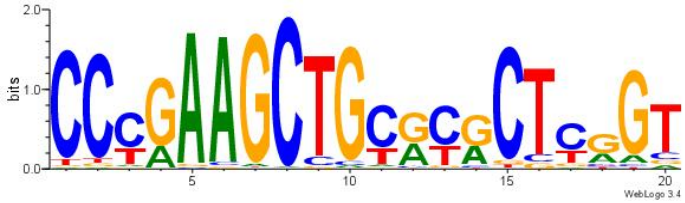

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

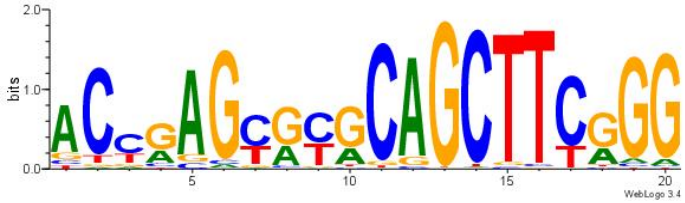

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11

Similarity score: 0.105107

Alignment:
CCGCTGCACTGTGGGAGCCC
--------TGCTGATTGGT-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

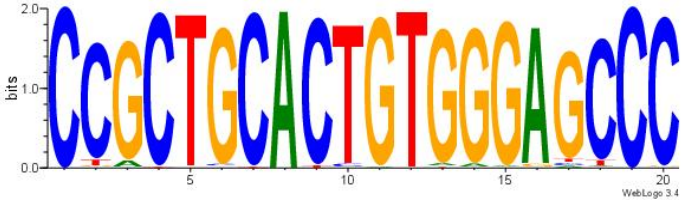

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

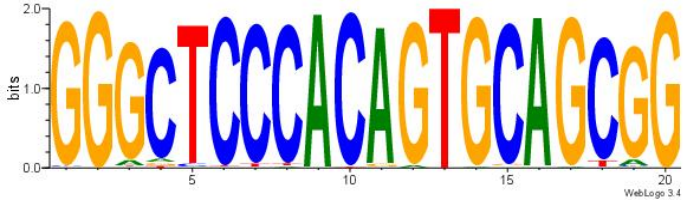

Dataset #: 1
Motif ID: 117
Motif name: Motif 117
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.105177

Alignment:
TTYTTGTTGTTGTTGTT
TGCTGATTGGT------

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

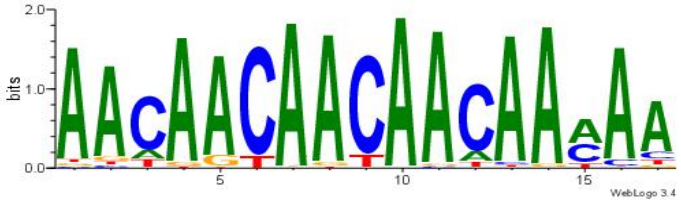

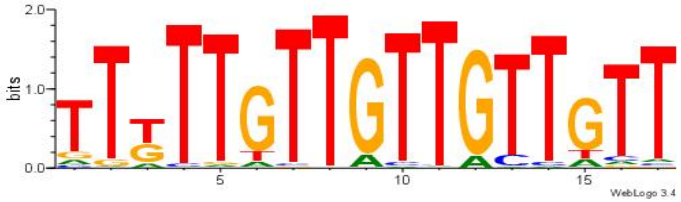

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.105637

Alignment:

```
TGGGCTGCCAGATG
--TGCTGATTGGT-
```

Original motif Consensus sequence: CATCTGGCAGCCCA

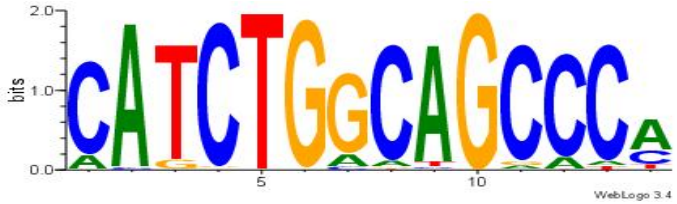

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

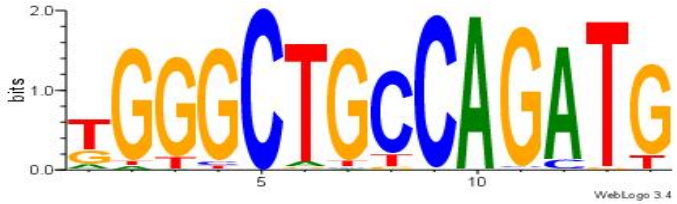

Dataset #:	1
Motif ID:	286

Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.105783

Alignment:

```
CTCCCAGCCGCCTG
--ACCAATCAGCA-
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

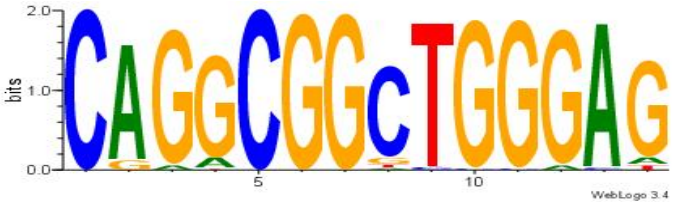

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

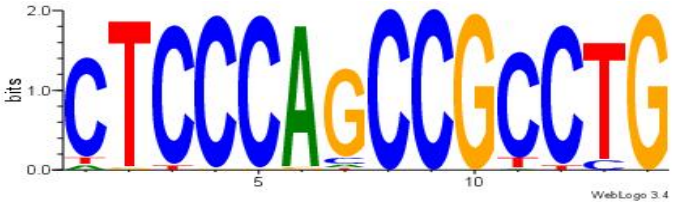

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.105843

Alignment:
CACCAGACTCAGGAGCCCAG
---ACCAATCAGCA------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

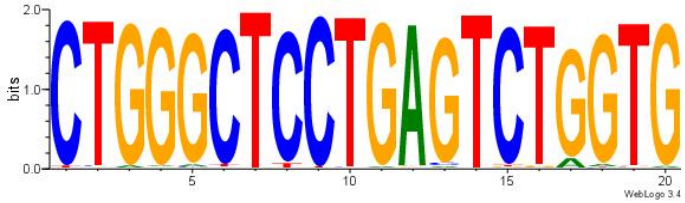

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

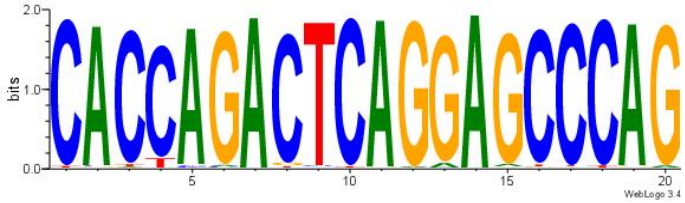

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.105985

Alignment:
CTTGGGTGGTCGATGGGAC
-------TGCTGATTGGT-

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

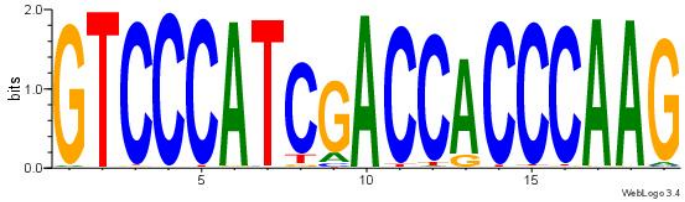

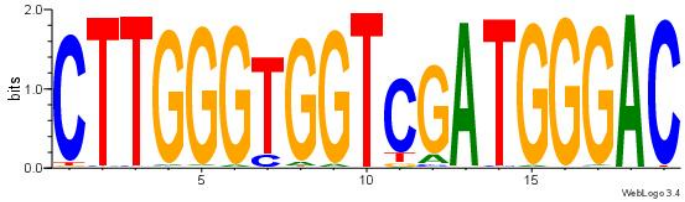

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.106039

Alignment:

```
ATTGATMKCCAGGGTTGATT
---------ACCAATCAGCA
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

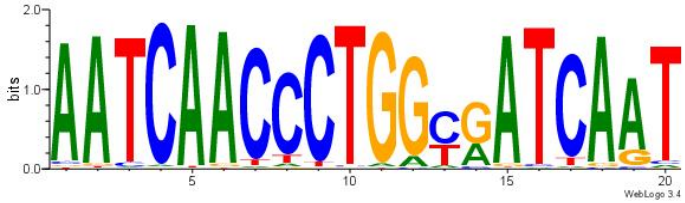

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

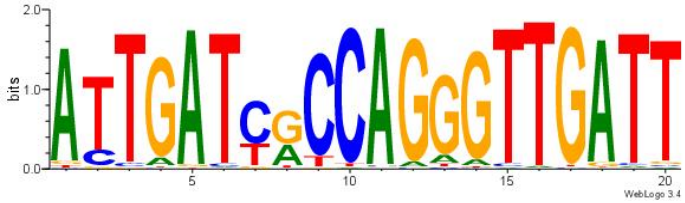

Dataset #:	1

Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.106172

Alignment:

```
TGGCCTGTTAGGAA
-TGCTGATTGGT--
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

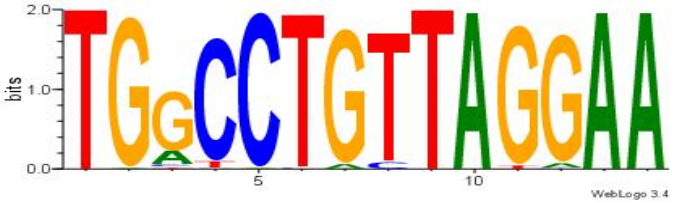

Reverse complement motif Consensus sequence: TTCCTAACAGGCCA

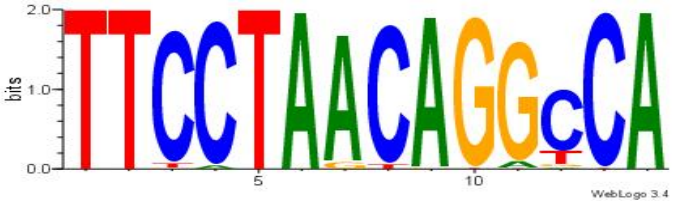

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.106327

Alignment:
CTATTGTGAATARTGCTGC
--TGCTGATTGGT------

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

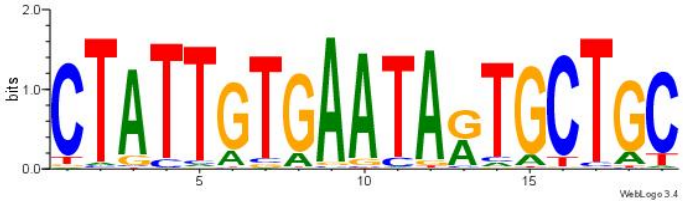

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

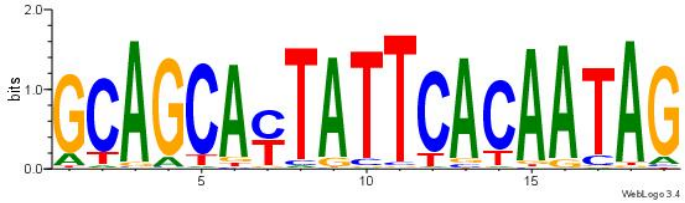

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.106867

Alignment:
GGCTGCGGAGGGTGTA
--TGCTGATTGGT---

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

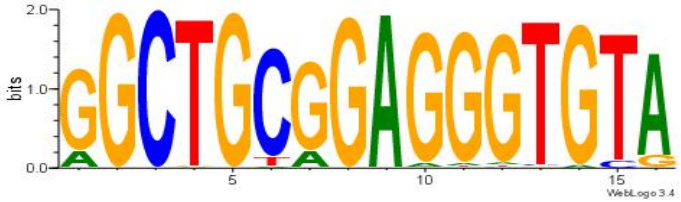

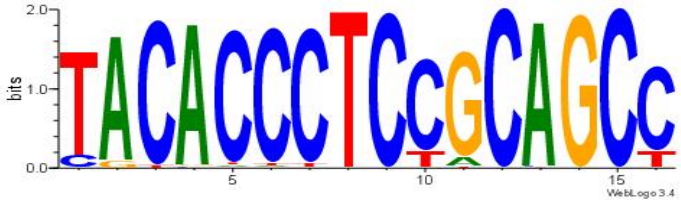

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.107256

Alignment:

```
GGCACTGCTGGGGGACCCAG
--TGCTGATTGGT-------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

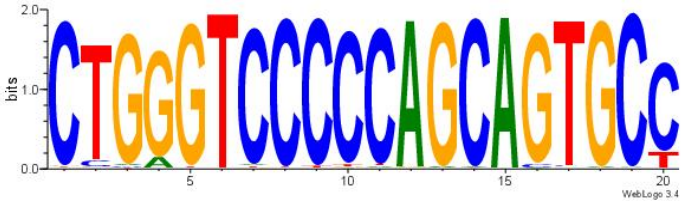

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

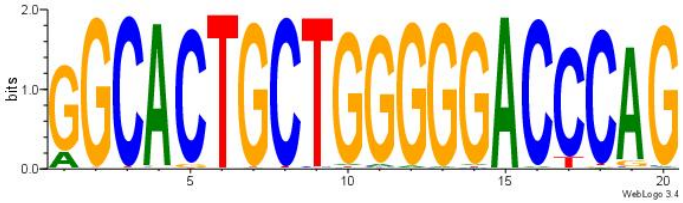

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.107386

Alignment:

```
TAGATAATAGCTCCAGCTTT
-TGCTGATTGGT--------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

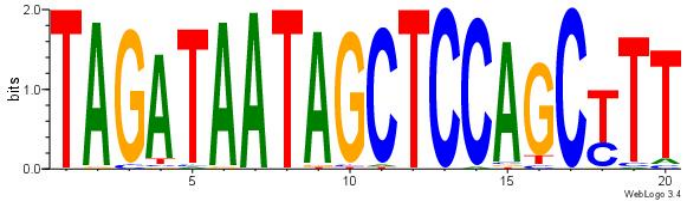

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

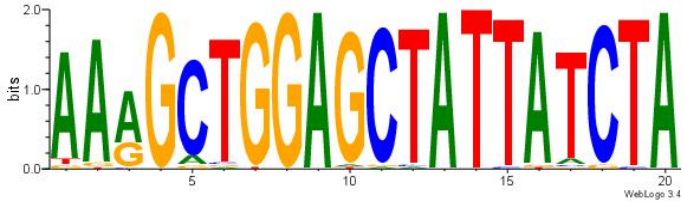

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.107823

Alignment:
GGTCAGGATCATCAATAT
----ACCAATCAGCA---

Original motif Consensus sequence: ATATTGATGATCCTGACC

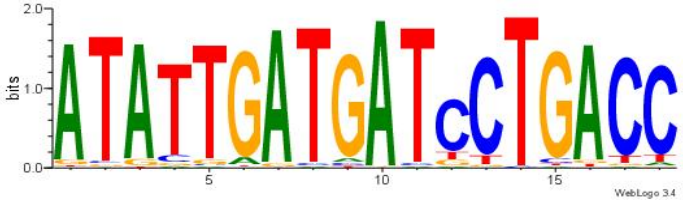

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

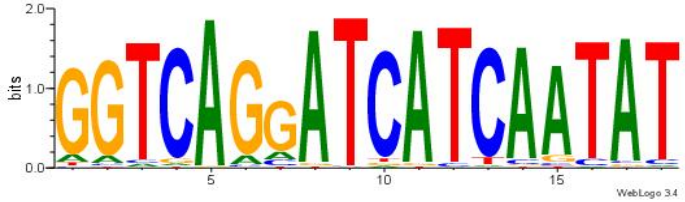

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.107995

Alignment:
CGCCCGGCCAGCCGC
--ACCAATCAGCA--

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

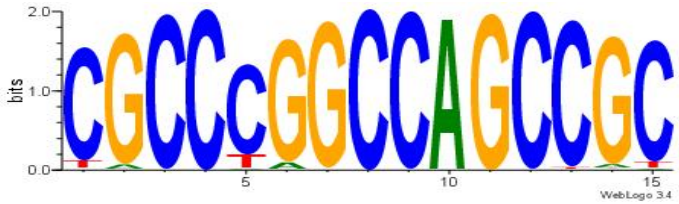

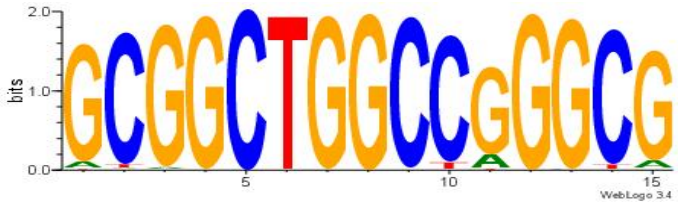

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.108334

Alignment:
CCCACGCCCACCCGGAACT
---ACCAATCAGCA-----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

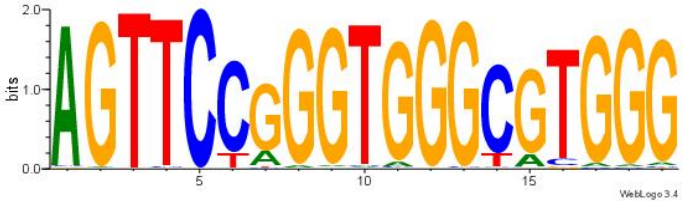

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

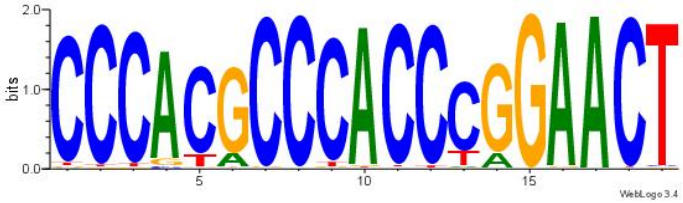

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.108407

Alignment:

```
ATAGGAATGCTTGTGATTTT
-------TGCTGATTGGT--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

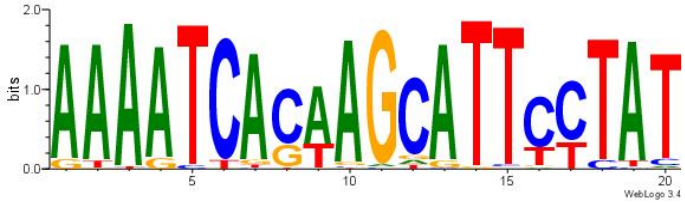

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

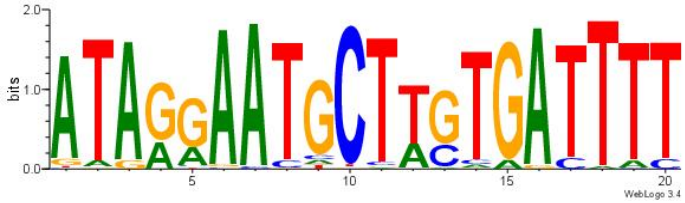

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.108639

Alignment:
TGGATGGATGGATGGAT
-TGCTGATTGGT-----

Original motif Consensus sequence: ATCCATCCATCCATCCA

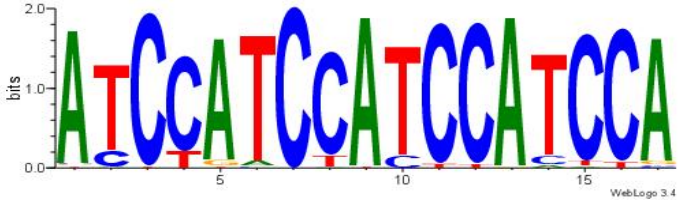

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 241
Motif name: Motif 241
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.108711

Alignment:
GCACTGAGTGAACGA
---TGCTGATTGGT-

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGT

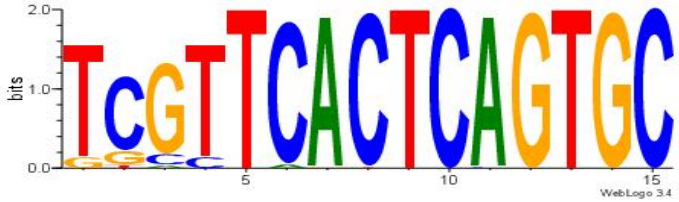

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.108991

Alignment:

```
AAGGAACAAACTCCRGACAC
----ACCAATCAGCA-----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

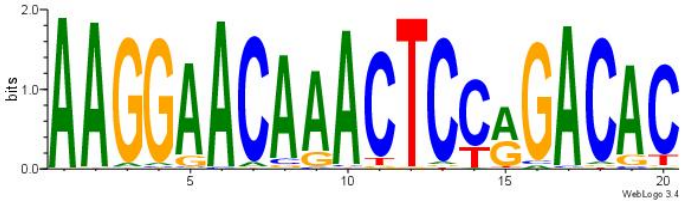

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

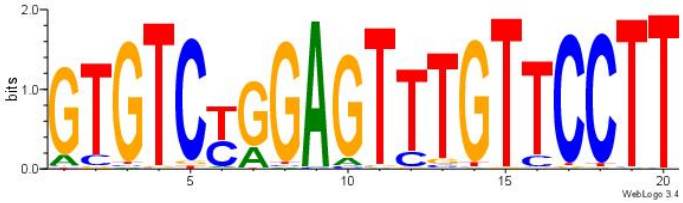

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.109262

Alignment:

```
GAATACCTCCTGAAGGACCT
-------TGCTGATTGGT--
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

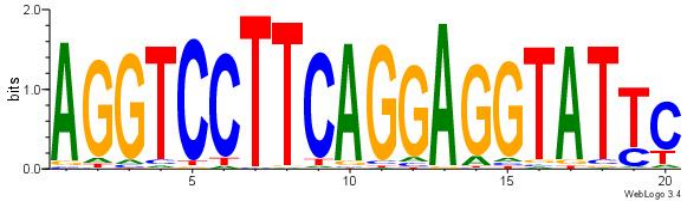

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

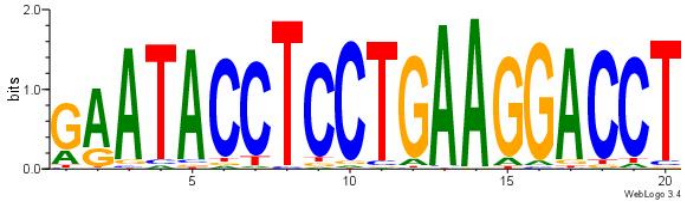

Dataset #: 1 Motif ID: 298 Motif name: Motif 298

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

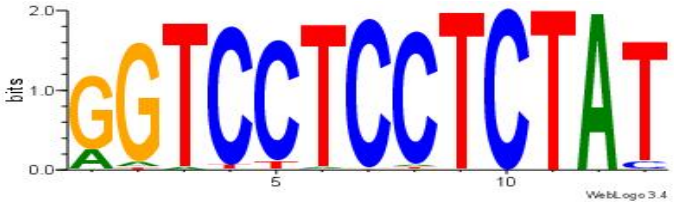

Best Matches for Motif ID 298 (Highest to Lowest)

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0631665

Alignment:

```
GGTGCCCCTCTGGGACRAA
------GGTCCTCCTCTAT
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

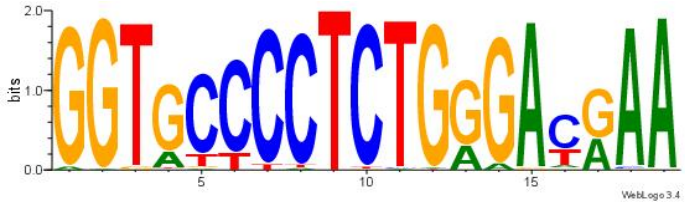

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

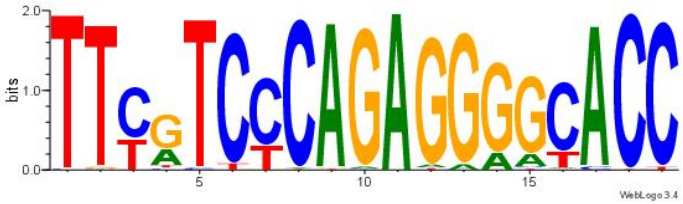

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0642679

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----ATAGAGGAGGACC--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

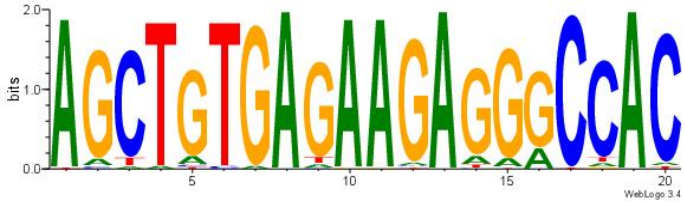

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

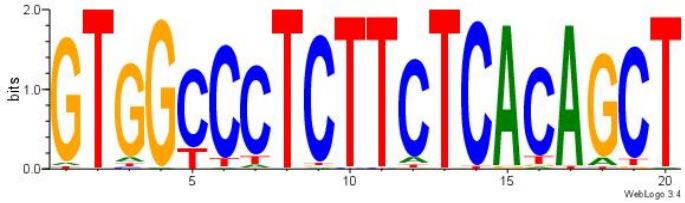

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0658365

Alignment:

```
CTGGGCRACAGAGYRAGACY
-------ATAGAGGAGGACC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

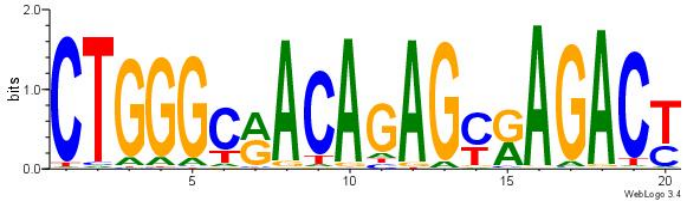

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

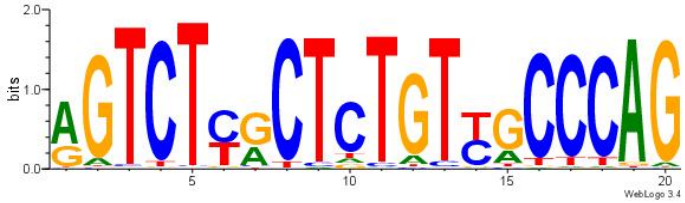

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0707264

Alignment:

```
AGAGTCTCACTCTGT
GGTCCTCCTCTAT--
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

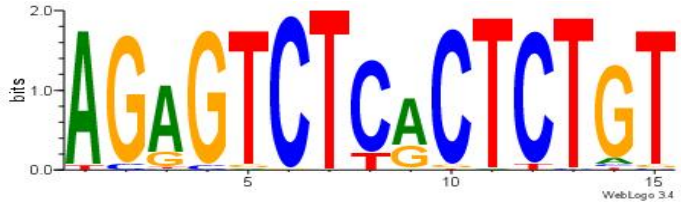

Reverse complement motif Consensus sequence: ACAGAGTGAGACTCT

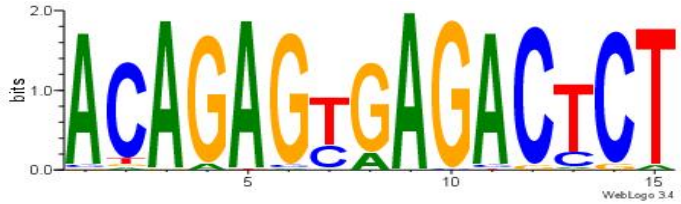

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0811499

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
-ATAGAGGAGGACC------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

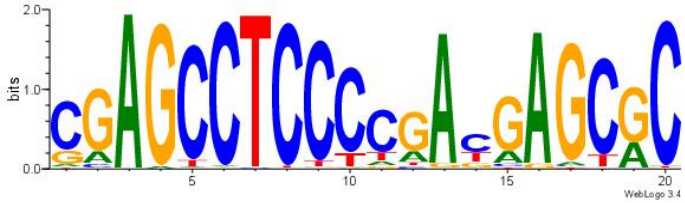

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

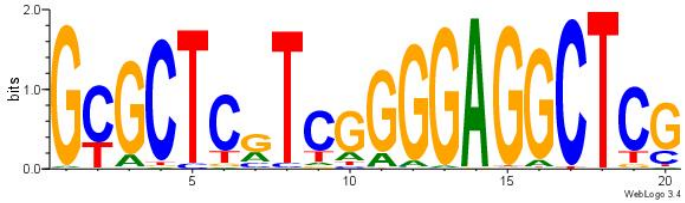

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 13
Similarity score: 0.0822814

Alignment:
AGGAGCGCCTCTKCCCGGC
-----GGTCCTCCTCTAT-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

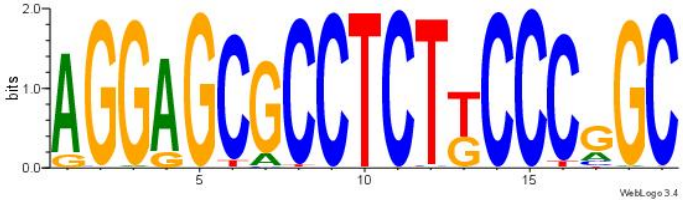

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

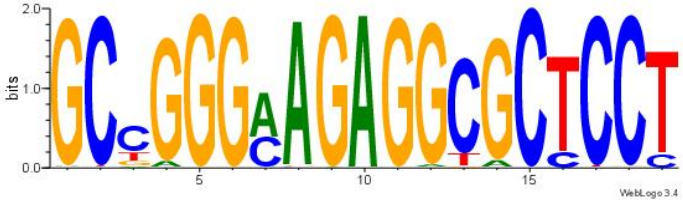

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0826846

Alignment:
AGCTCMKCCTCCTGTCAGAT
-GGTCCTCCTCTAT------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

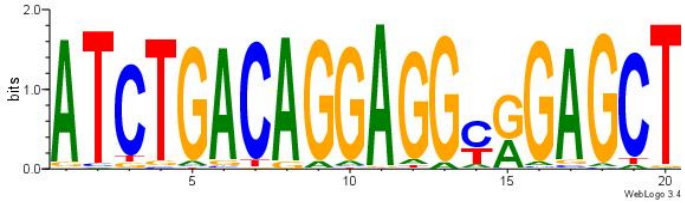

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

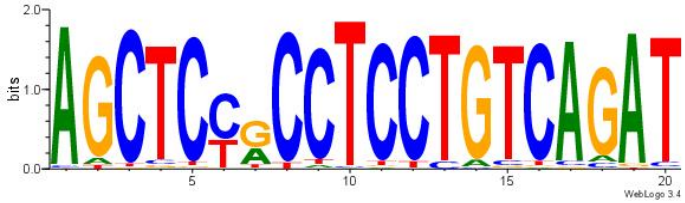

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0830776

Alignment:

```
AGGAGCGCCTCTGC
-GGTCCTCCTCTAT
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

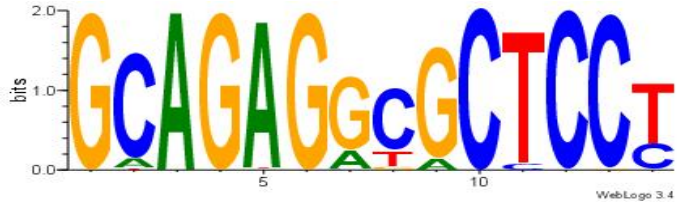

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

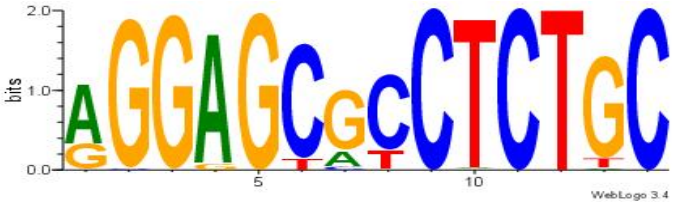

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0831908

Alignment:

```
CAAASCKGTCATAGGCCAT
------GGTCCTCCTCTAT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

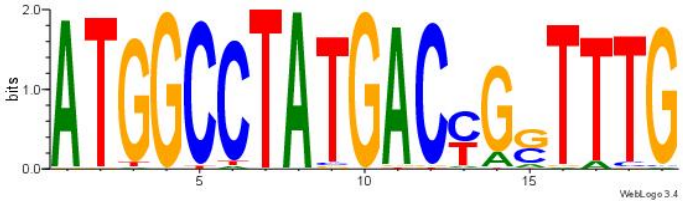

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

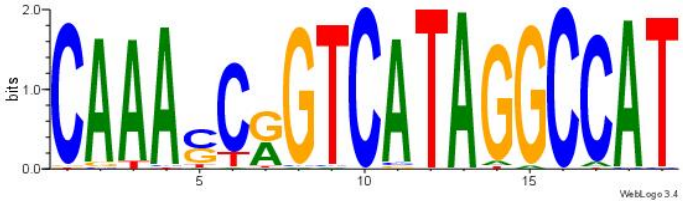

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 13
Similarity score: 0.0840818

Alignment:
AGGTCCTTCAGGAGGTATTC
------GGTCCTCCTCTAT-

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

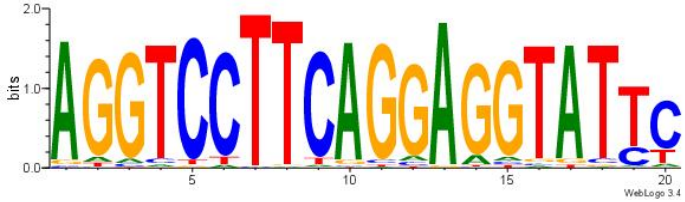

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

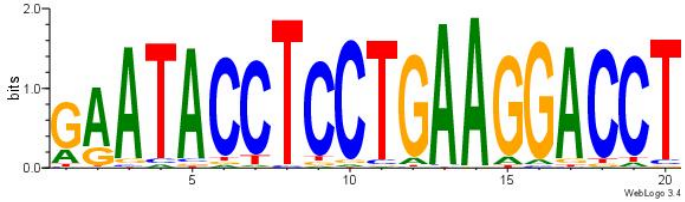

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0841851

Alignment:
AGGACTGAGGGTGCCYRGGG
---ATAGAGGAGGACC----

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

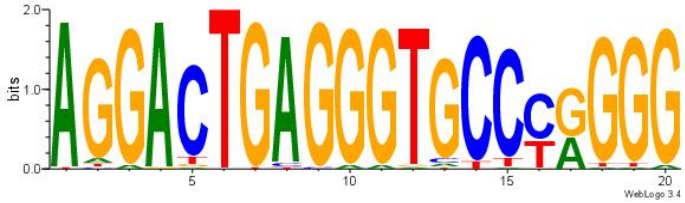

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

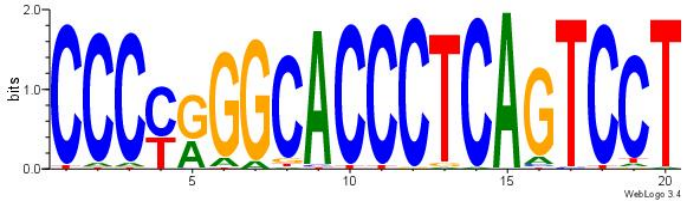

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0846079

Alignment:

```
GGCACTGCTGGGGGACCCAG
---ATAGAGGAGGACC----
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

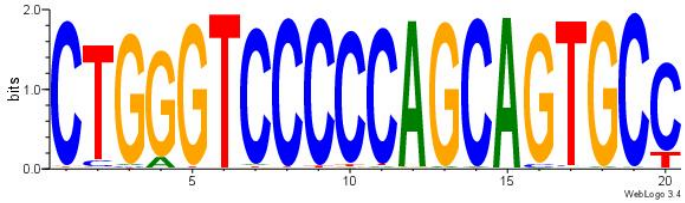

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

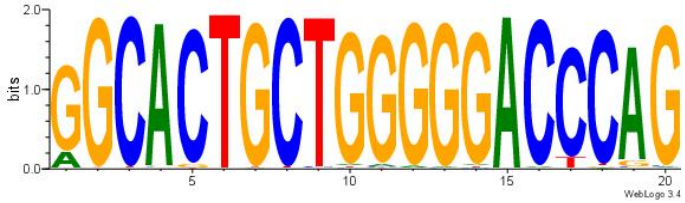

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0852812

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-----ATAGAGGAGGACC--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

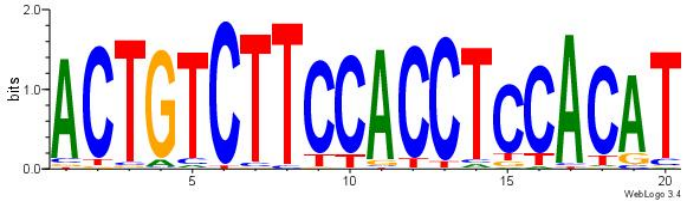

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

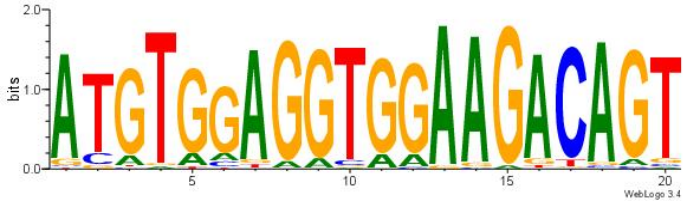

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0854332

Alignment:
GGTTCATCTCACTAGGGAGT
-------GGTCCTCCTCTAT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

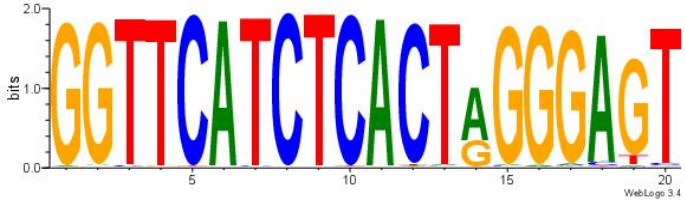

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

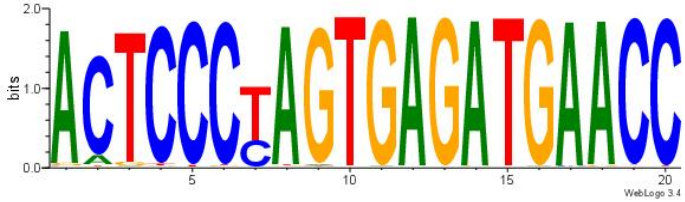

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0860339

Alignment:
CAAGGGTATAYGAGTAGCTG
-----ATAGAGGAGGACC--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

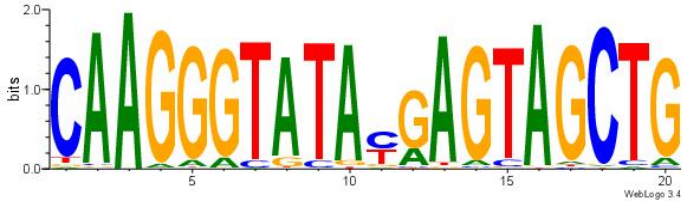

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

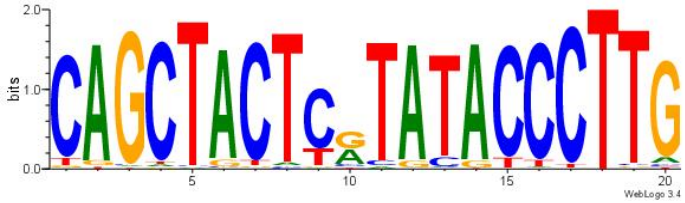

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0898705

Alignment:

```
ACTCAGCCCRCCTGCACCC
--GGTCCTCCTCTAT----
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

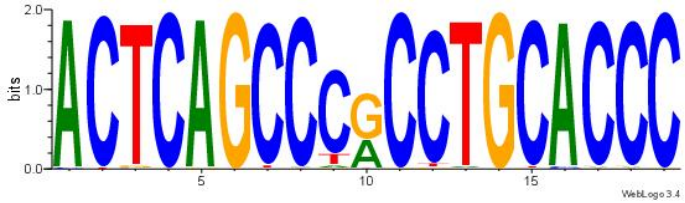

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

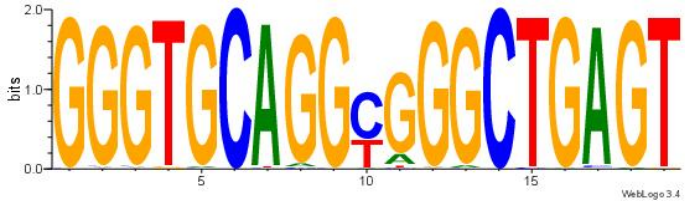

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0912197

Alignment:

```
TGGAGAACCTTTATGTCTAG
-GGTCCTCCTCTAT------
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

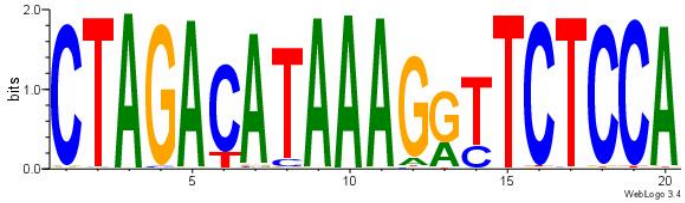

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

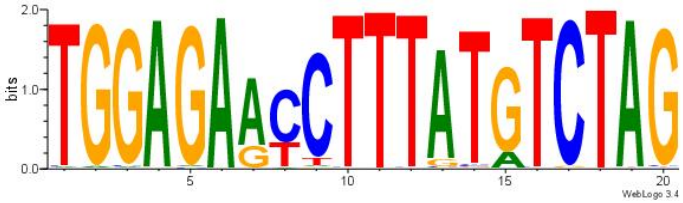

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 13
Similarity score: 0.0949935

Alignment:
TCCAAATGGGAGAAATTGGC
---ATAGAGGAGGACC----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

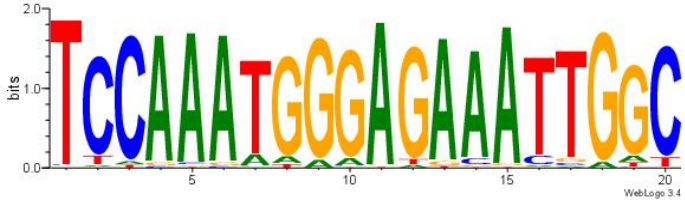

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

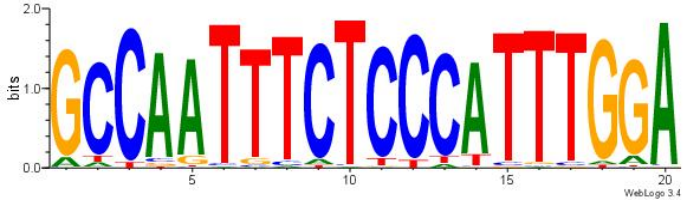

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0960261

Alignment:
AAYRGACTAATACA
-ATAGAGGAGGACC

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

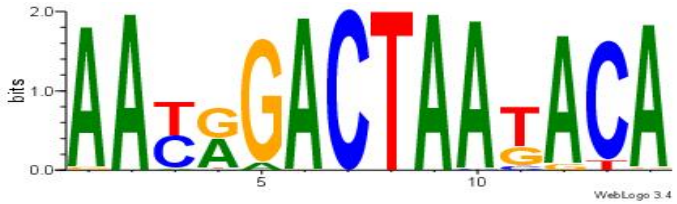

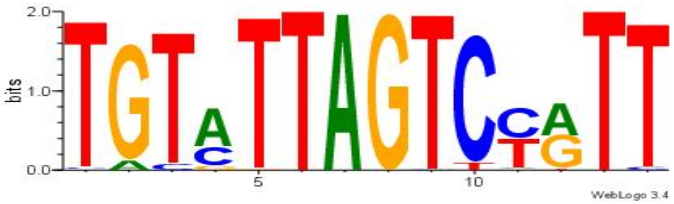

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0969881

Alignment:

```
GCCTCTCCCTCCACACCTCC
------GGTCCTCCTCTAT-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

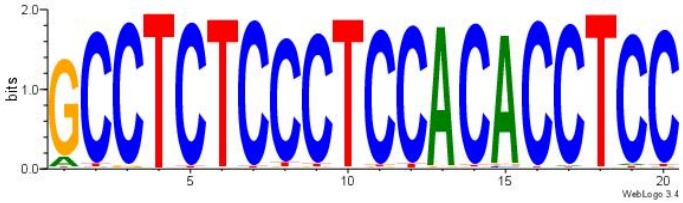

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

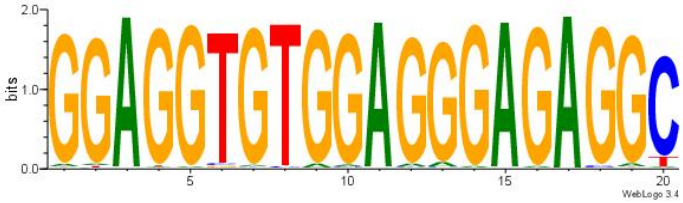

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0970375

Alignment:

```
TGCTGGAGGTCCACTCCAGA
--ATAGAGGAGGACC-----
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

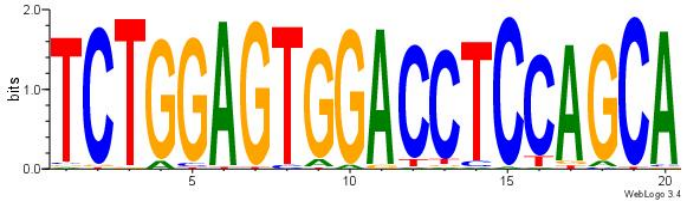

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

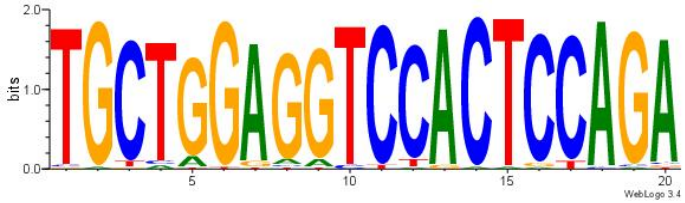

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.0970796

Alignment:
TGHCCTGCKCCCACTGTCT
------GGTCCTCCTCTAT

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

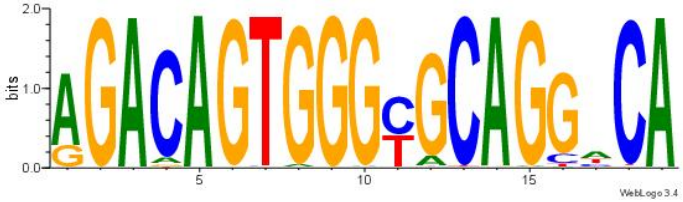

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

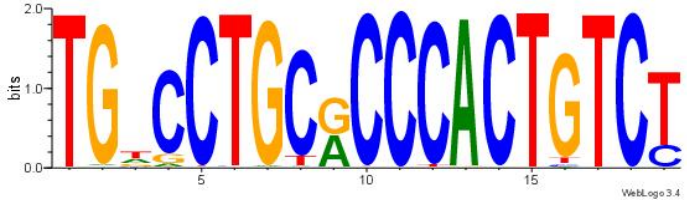

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.0973917

Alignment:
CACCAGACTCAGGAGCCCAG
-ATAGAGGAGGACC------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

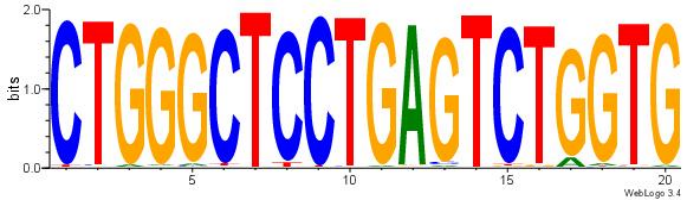

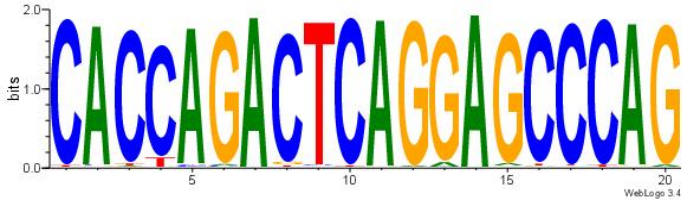

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0976056

Alignment:

```
CGCCCATCGTCTGGGATGT
-GGTCCTCCTCTAT-----
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

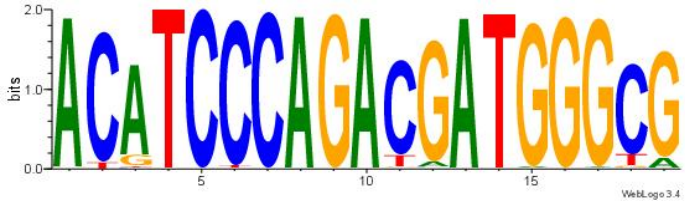

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

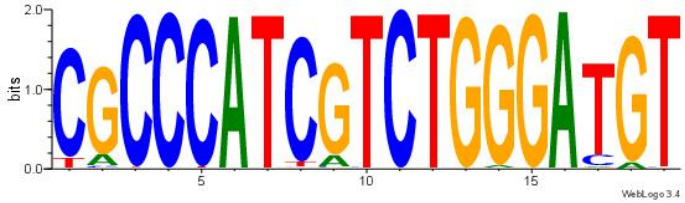

Dataset #: 1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.097732

Alignment:

```
GTGTCCCCTTCCTCCC
-GGTCCTCCTCTAT--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

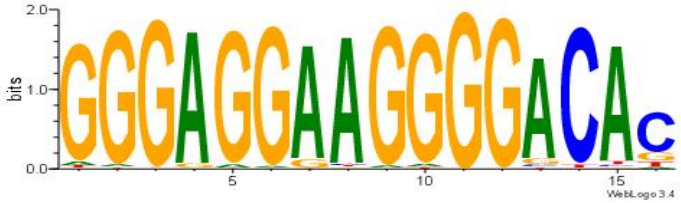

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

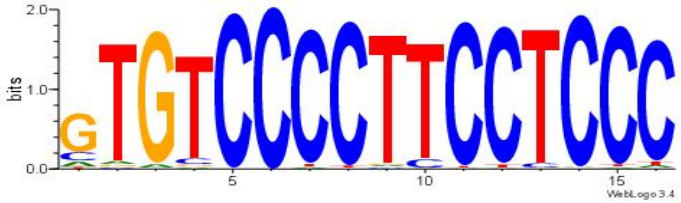

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.097842

Alignment:
AGGTATTTCTCCCACC
--GGTCCTCCTCTAT-

Original motif Consensus sequence: AGGTATTTCTCCCACC

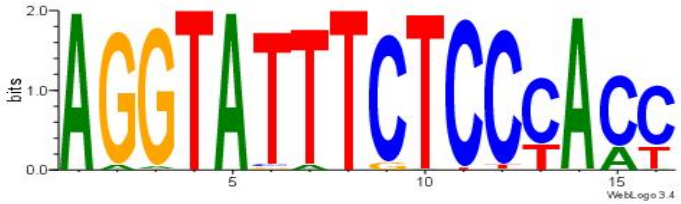

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

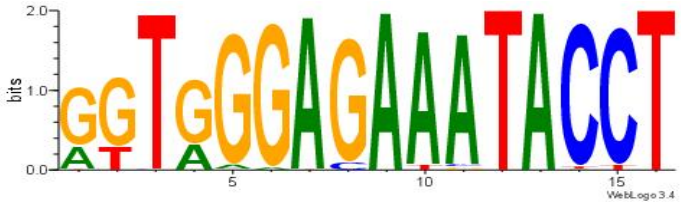

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0981993

Alignment:
TTGTCCCACTGGAAGGTCTT
-GGTCCTCCTCTAT------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

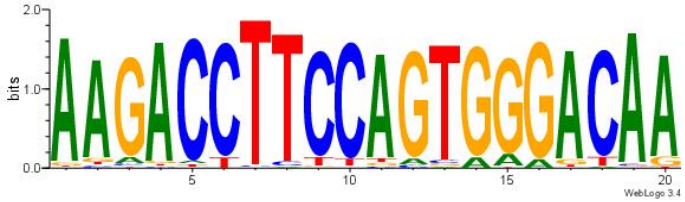

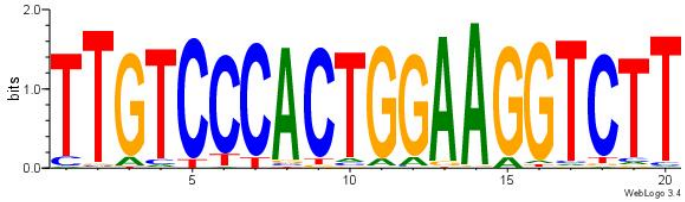

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0989601

Alignment:

```
ACAAGGCAAGTCCCTTCY
ATAGAGGAGGACC-----
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

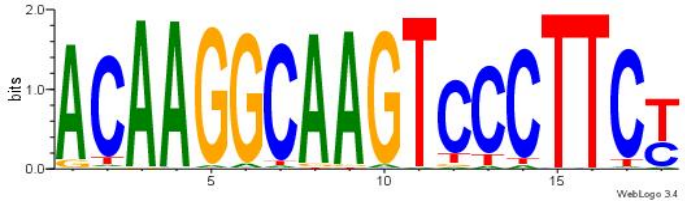

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

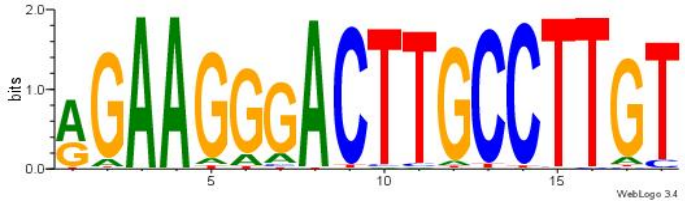

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0993898

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
----ATAGAGGAGGACC---
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

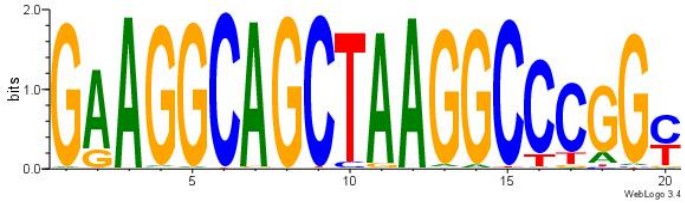

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

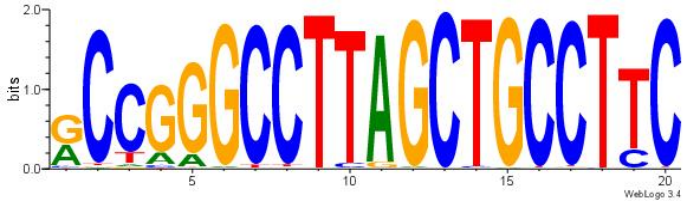

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.0994849

Alignment:
AATTAAAAGACACAGACTG
-----ATAGAGGAGGACC-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

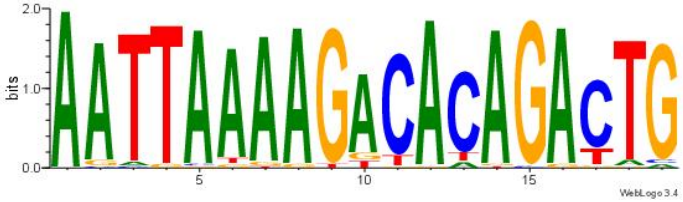

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

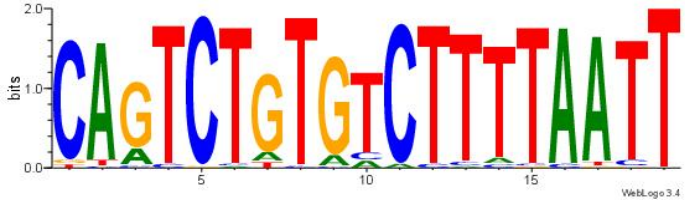

Dataset #: 1
Motif ID: 148
Motif name: Motif 148
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.099646

Alignment:
CTTCGCTGACTCTCTTT
----GGTCCTCCTCTAT

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

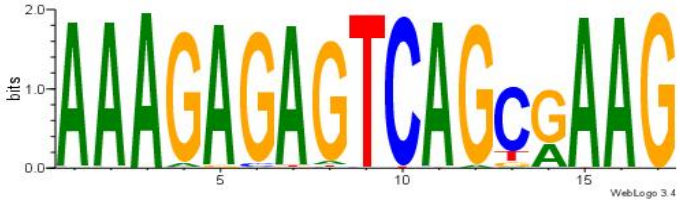

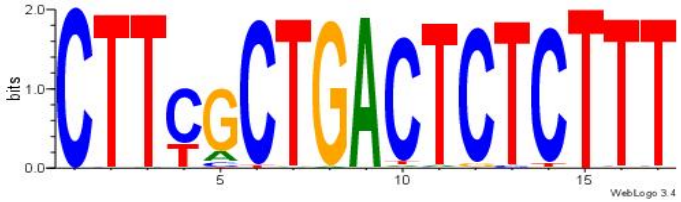

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.100426

Alignment:

```
HAGTGGKATTGCTGGATCAT
----GGTCCTCCTCTAT---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

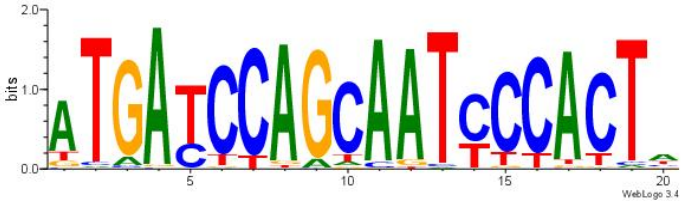

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

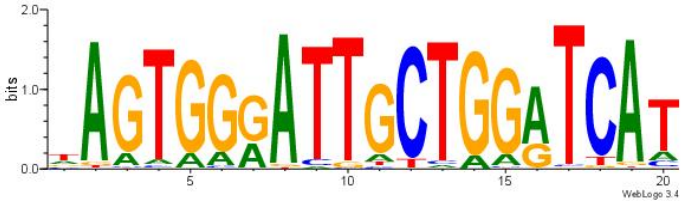

Dataset #:	1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.100471

Alignment:

```
CTCAGGAATGGAAAACC
----ATAGAGGAGGACC
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

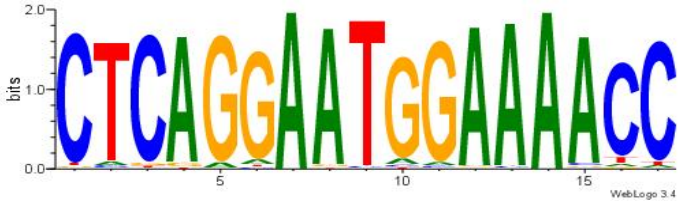

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

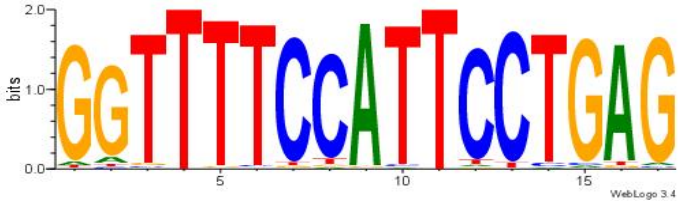

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.100753

Alignment:
GTTTAACCATTGAGGGCCAG
-----ATAGAGGAGGACC--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

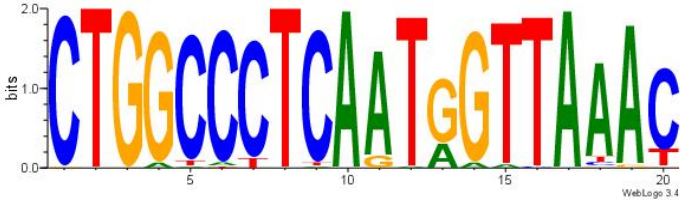

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

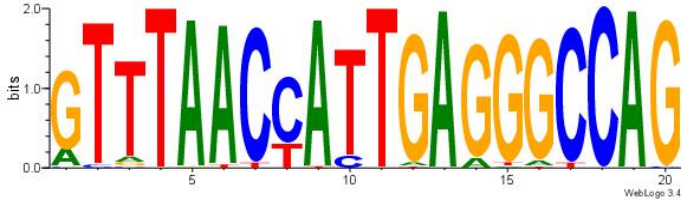

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.100906

Alignment:
CGGCGCTGMGCTCGATTTCT
-GGTCCTCCTCTAT------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

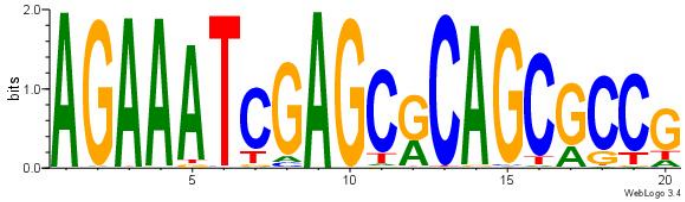

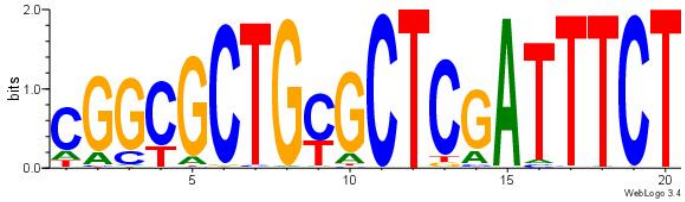

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.100959

Alignment:

```
CGCACTCCTCAGCC
-GGTCCTCCTCTAT
```

Original motif Consensus sequence: CGCACTCCTCAGCC

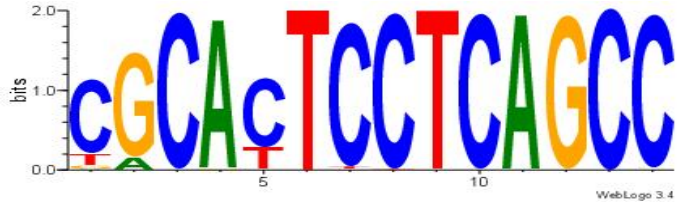

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

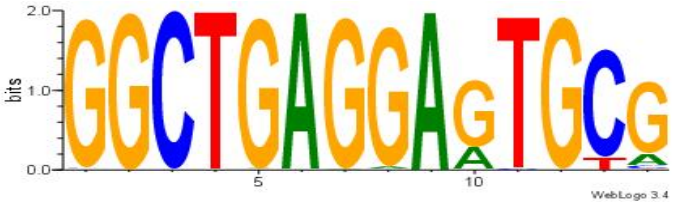

Dataset #:	1
Motif ID:	262

Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.10103

Alignment:

```
GACAGGAGATTAACACTGAG
------ATAGAGGAGGACC-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

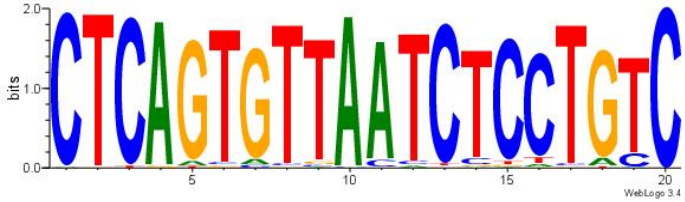

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

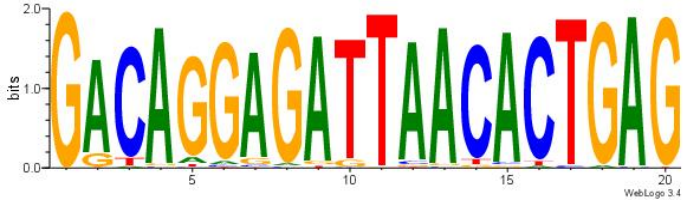

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.101154

Alignment:
GAAAAGCGCAGTATTMGGG
--ATAGAGGAGGACC----

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

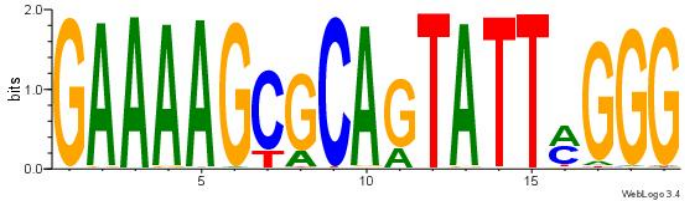

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

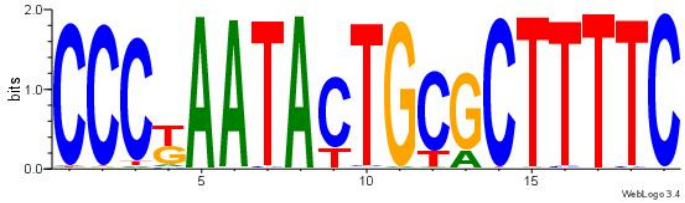

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.102005

Alignment:
GGAGCCGGCTCCCTCAGCTT
-GGTCCTCCTCTAT------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

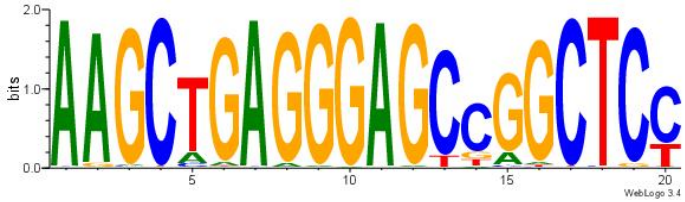

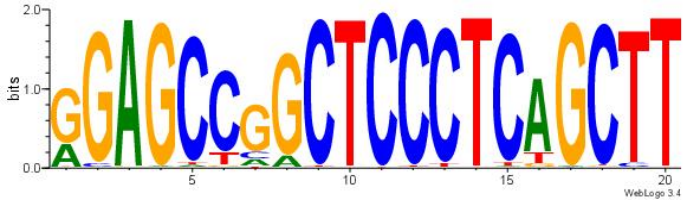

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.102719

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
----GGTCCTCCTCTAT---
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

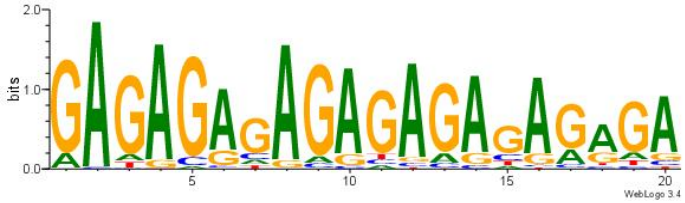

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

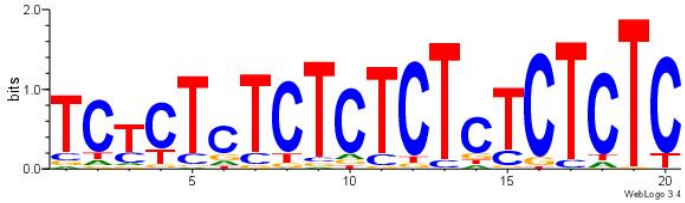

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.103146

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-------ATAGAGGAGGACC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

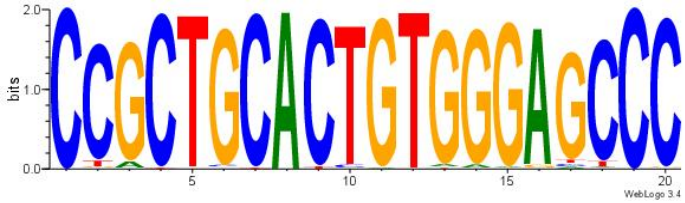

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

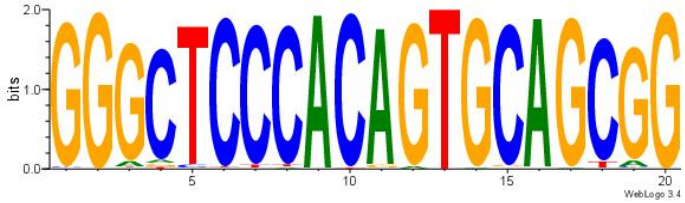

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.103158

Alignment:
GCCAGGCAGAGRGKCTCCT
-----ATAGAGGAGGACC-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

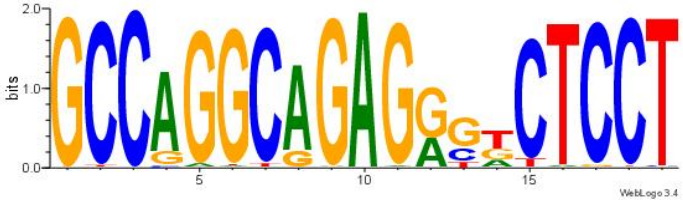

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

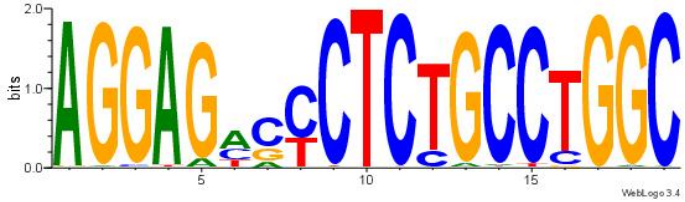

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.103177

Alignment:
AAGCTCGAACTGGGTGGAGC
-------ATAGAGGAGGACC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

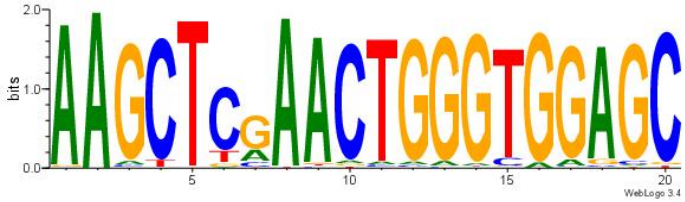

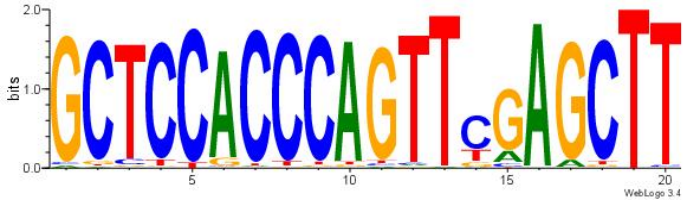

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.103521

Alignment:

```
TCAATGGGCTCCCAAATG
----GGTCCTCCTCTAT-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

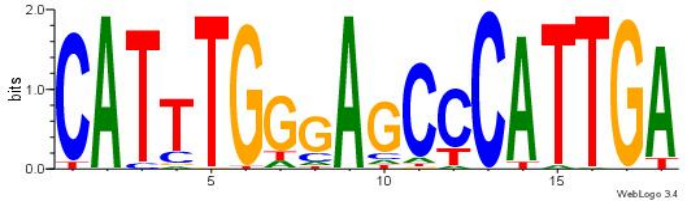

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

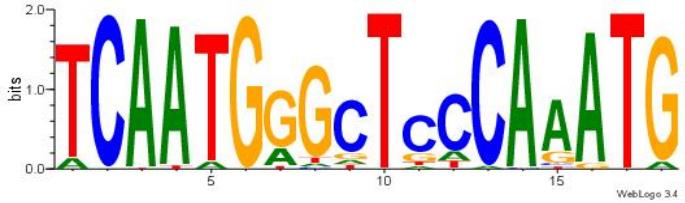

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.103711

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
------GGTCCTCCTCTAT-
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

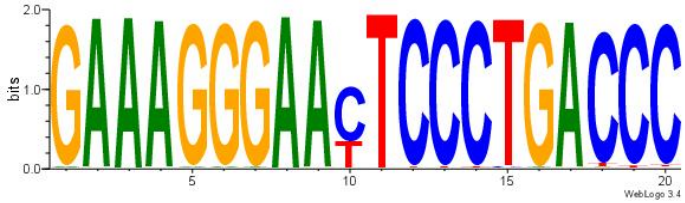

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

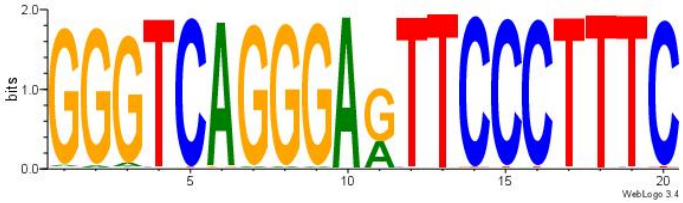

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.103927

Alignment:
AGGAGCCCCTCHGCCCR
---GGTCCTCCTCTAT-

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

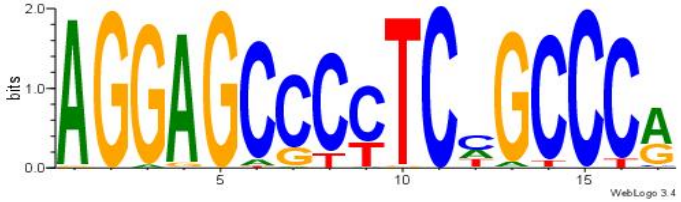

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 184
Motif name: Motif 184
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.104725

Alignment:
ATATTGATGATCCTGACC
ATAGAGGAGGACC-----

Original motif Consensus sequence: ATATTGATGATCCTGACC

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

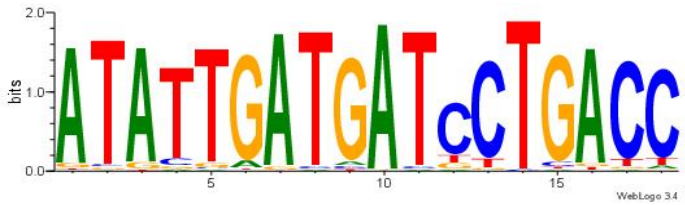

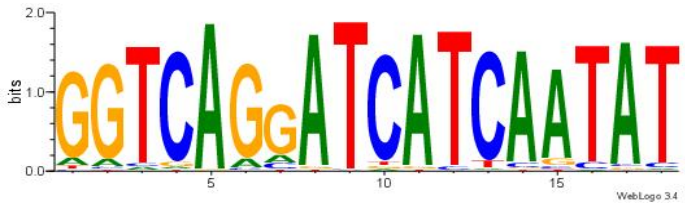

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.104988

Alignment:

```
ACACATCACAAAGCAGTTTC
-------ATAGAGGAGGACC
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

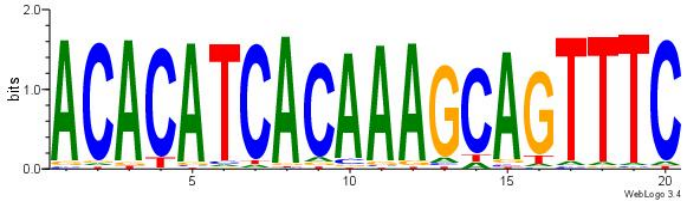

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

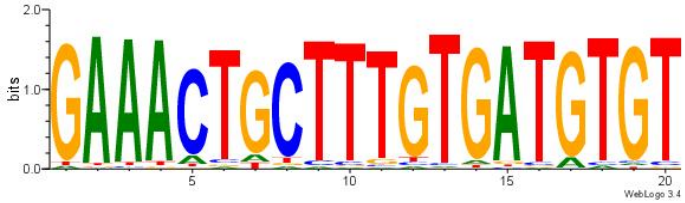

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.105072

Alignment:

```
CCTGCCATTGCYSAGGCTTG
------ATAGAGGAGGACC-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

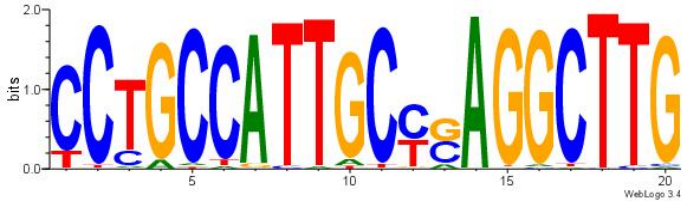

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

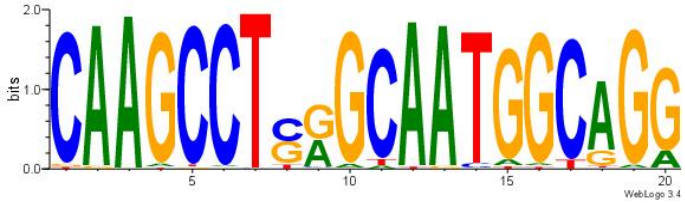

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.105628

Alignment:
TGATGGGTGCACCAAA
ATAGAGGAGGACC---

Original motif Consensus sequence: TGATGGGTGCACCAAA

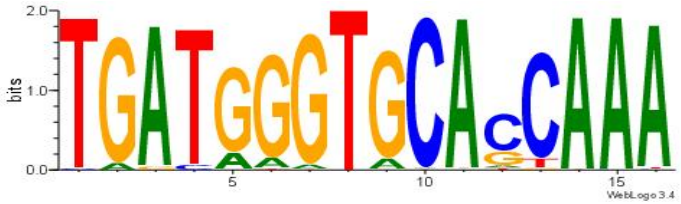

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

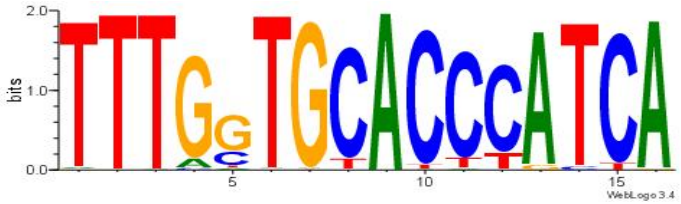

Dataset #: 1 Motif ID: 299 Motif name: Motif 299

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

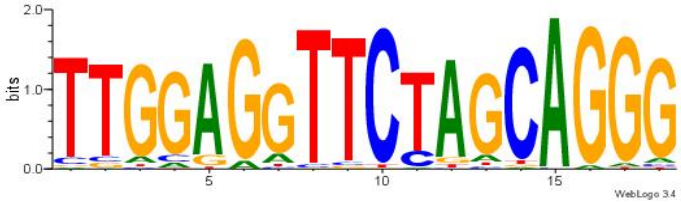

Best Matches for Motif ID 299 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0856135

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-CCCTGCTAGAACCTCCAA-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

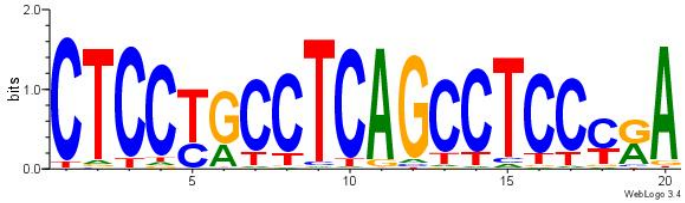

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

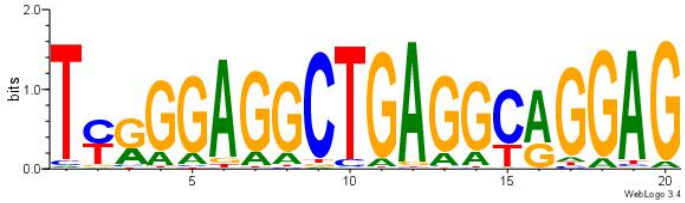

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.097377

Alignment:

ATGTGGAGGTGGAAGACAGT
--TTGGAGGTTCTAGCAGGG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

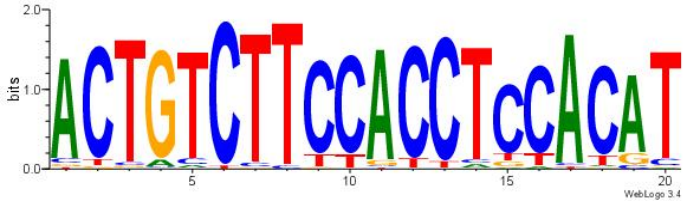

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

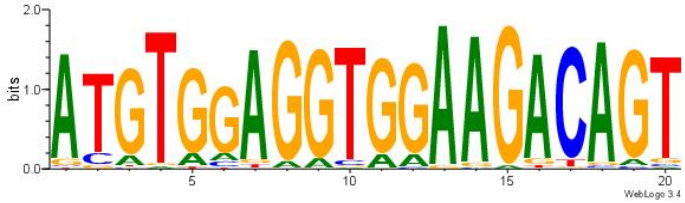

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.100452

Alignment:
CTGGGTCCCCCAGCAGTGCC
--TTGGAGGTTCTAGCAGGG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

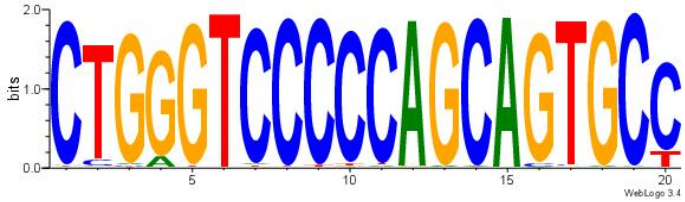

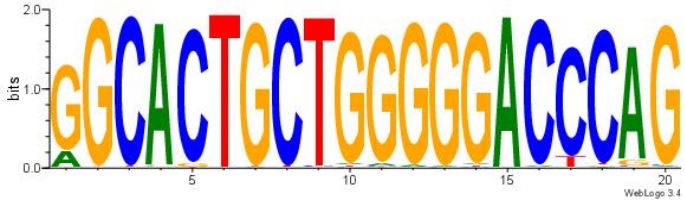

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.100799

Alignment:

```
TCTGGAGTGGACCTCCAGCA
CCCTGCTAGAACCTCCAA--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

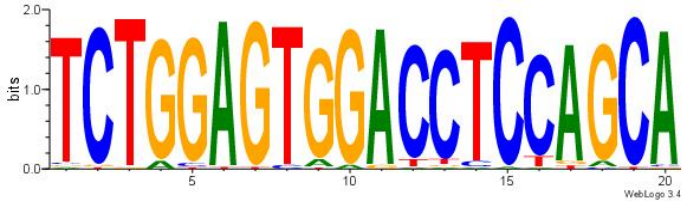

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

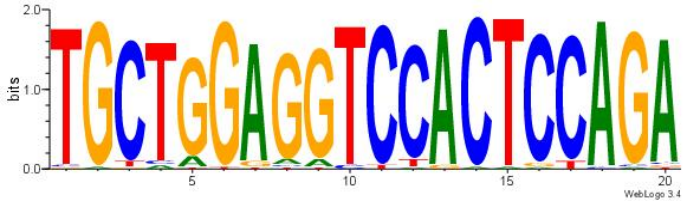

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.102664

Alignment:

```
GACTGGCAGGCAGCTCCACC
-CCCTGCTAGAACCTCCAA-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

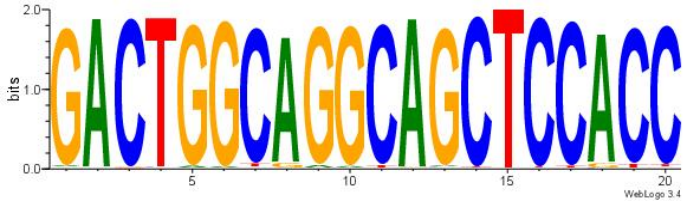

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

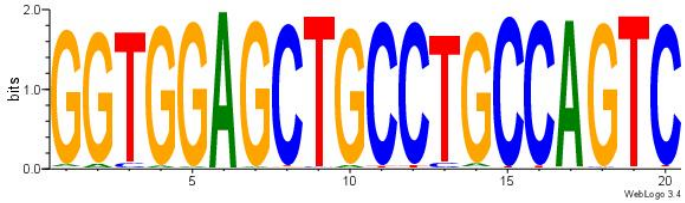

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.108302

Alignment:
TCCTATGAGAATCTAATG
CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: CATTAGATTCTCATAGGA

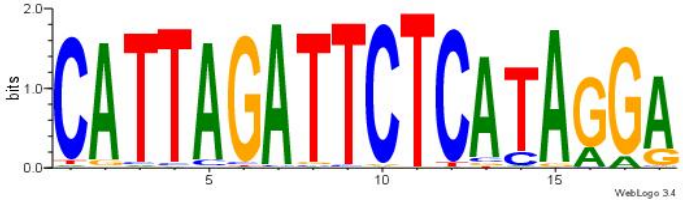

Reverse complement motif Consensus sequence:
TCCTATGAGAATCTAATG

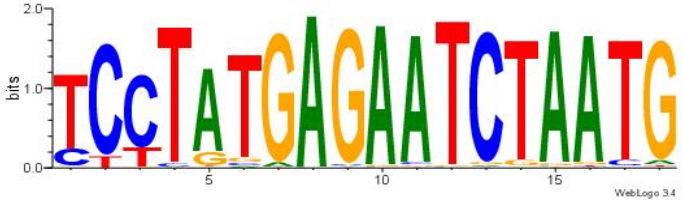

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.109335

Alignment:
CTCAGTGTTAATCTCCTGTC
CCCTGCTAGAACCTCCAA--

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

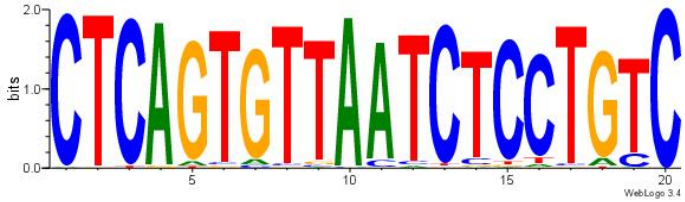

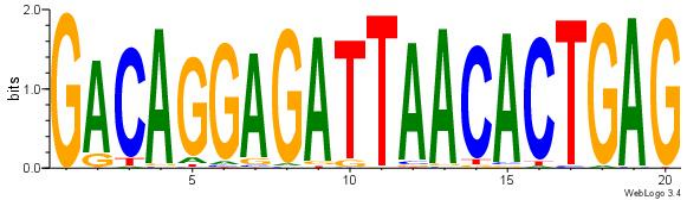

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.109906

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-CCCTGCTAGAACCTCCAA-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

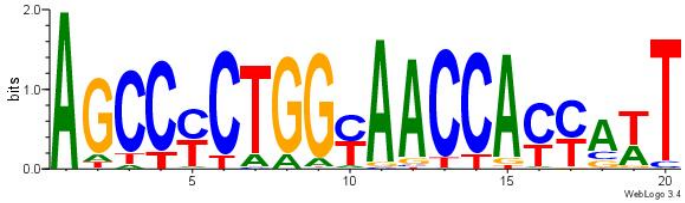

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

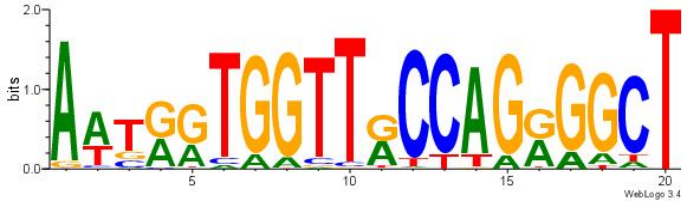

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.110645

Alignment:

```
MTCCTCCAGACCCCAGAATG
CCCTGCTAGAACCTCCAA--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

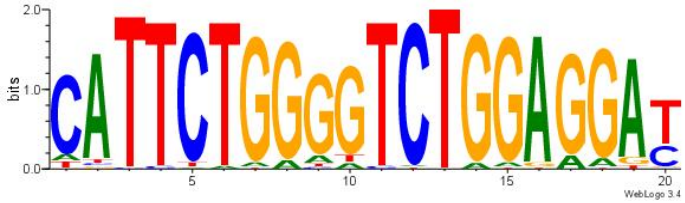

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

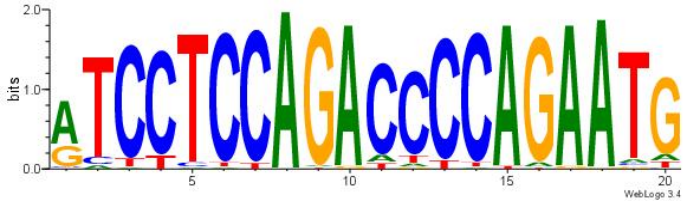

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.111059

Alignment:
GGCATCACGGATCCTACCAA
-CCCTGCTAGAACCTCCAA-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

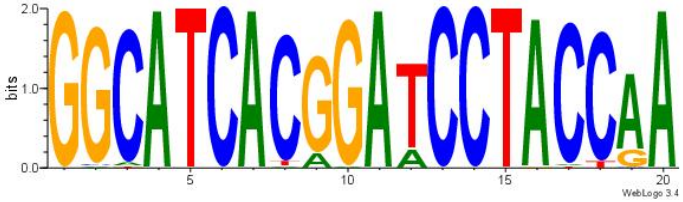

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

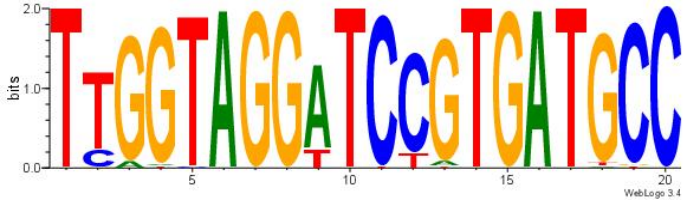

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.112263

Alignment:
CAACATGGATGRARCTGGAG
--CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

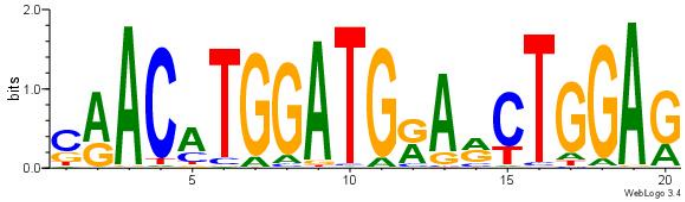

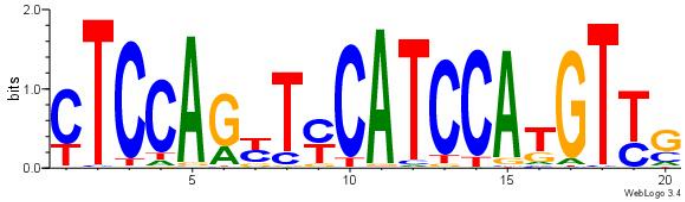

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.11369

Alignment:

```
GGGATTGTAAATACACCAAT
-CCCTGCTAGAACCTCCAA-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

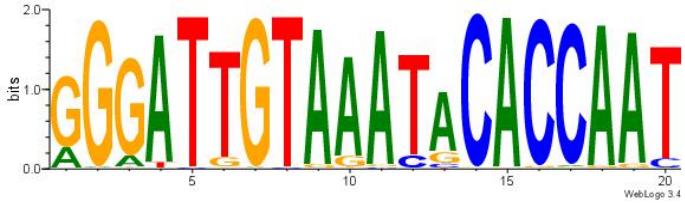

Dataset #: 1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.113898

Alignment:

```
CTTGGGTGGTCGATGGGAC
-TTGGAGGTTCTAGCAGGG
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

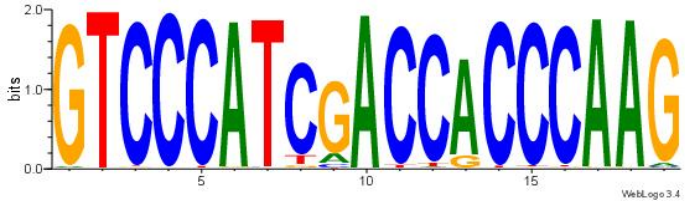

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

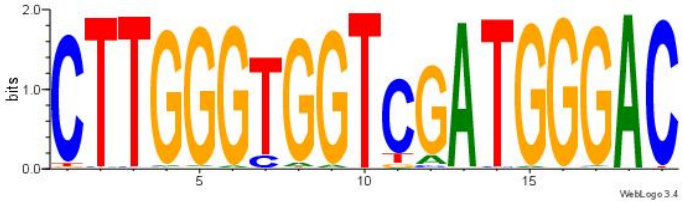

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.114357

Alignment:
CCCGAAGCTGCRYRCTCGGT
-TTGGAGGTTCTAGCAGGG-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

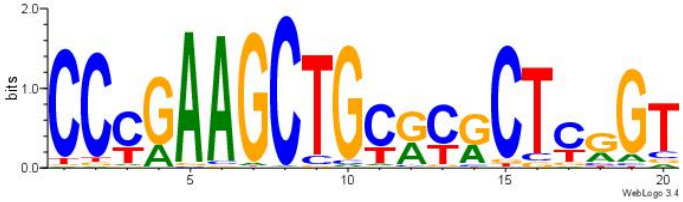

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

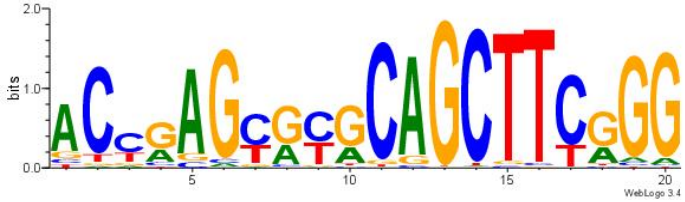

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.11491

Alignment:
GTCTCWAMAAAAAAWAMAAA
--CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

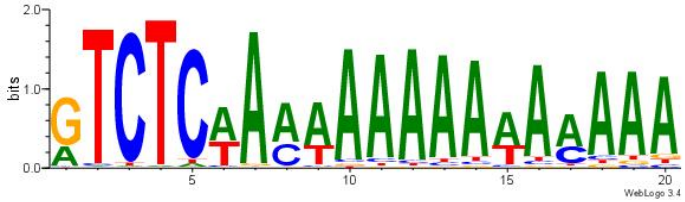

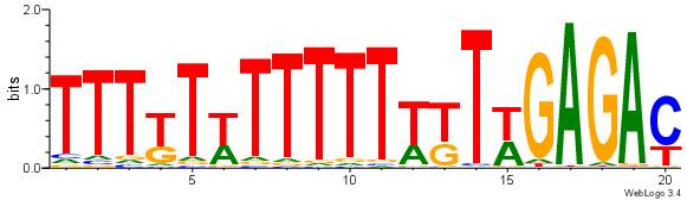

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.116719

Alignment:
CCCAAATCTCATSTTGAAT
CCCTGCTAGAACCTCCAA-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

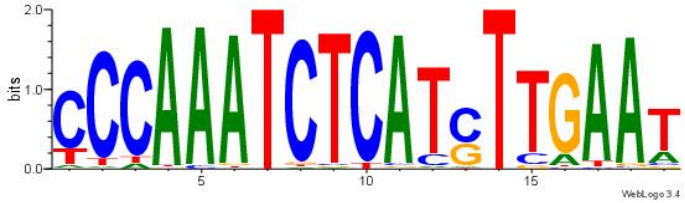

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

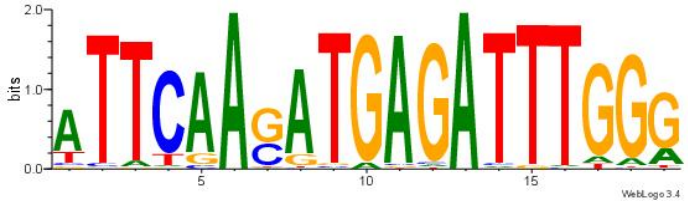

Dataset #: 1

Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.11774

Alignment:

```
AGCCCCGGTTCCCGCYCGC
TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

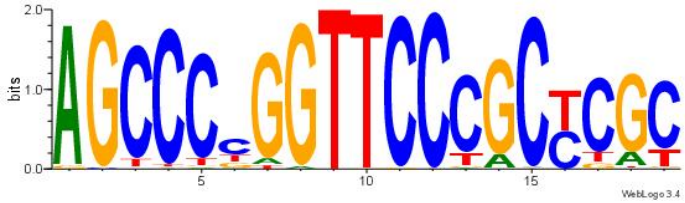

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

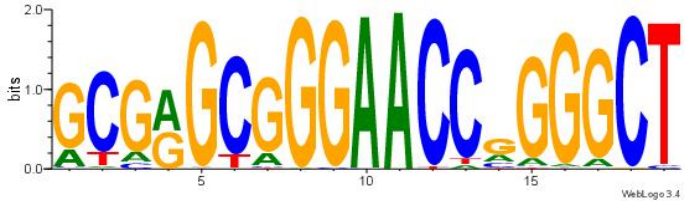

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.119003

Alignment:
TCCCTCCCGGACGGGGYGGC
-CCCTGCTAGAACCTCCAA-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

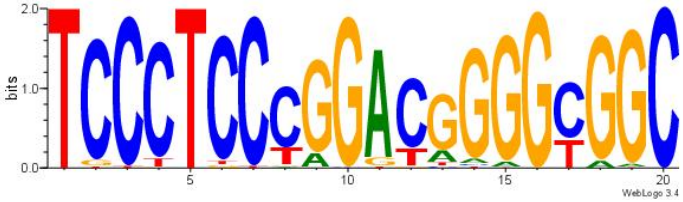

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

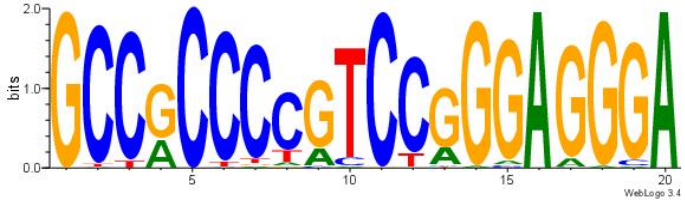

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.119373

Alignment:
TYTGTCMTTTTGTGACTGGC
-TTGGAGGTTCTAGCAGGG-

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

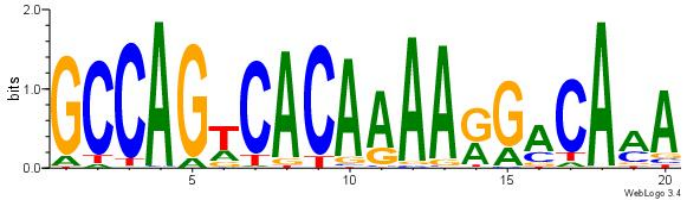

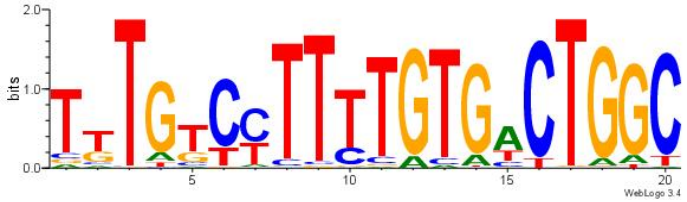

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.12164

Alignment:

```
CTGACTGGGAGACACCTCCC
--CCCTGCTAGAACCTCCAA
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

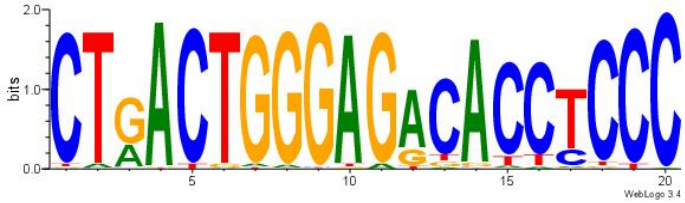

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

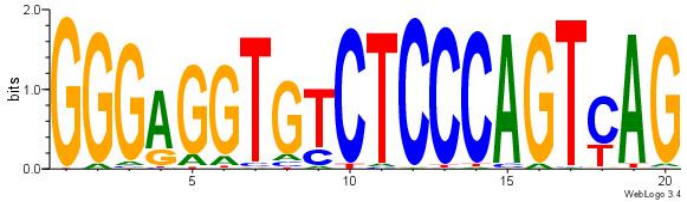

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.121939

Alignment:

```
GTGGCCCTCTTCTCACAGCT
TTGGAGGTTCTAGCAGGG--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

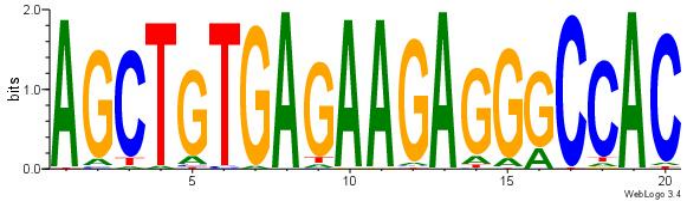

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

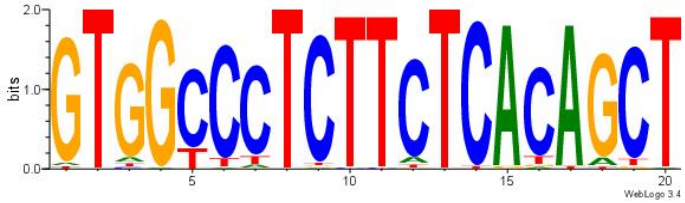

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.122186

Alignment:
CTTGCGCTTCCCRRGTGA
TTGGAGGTTCTAGCAGGG

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

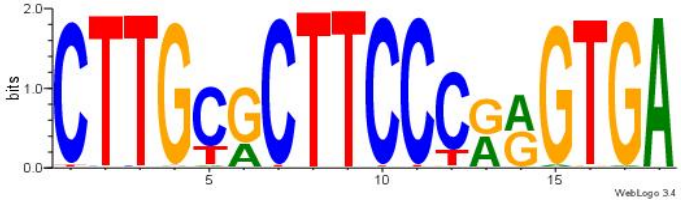

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

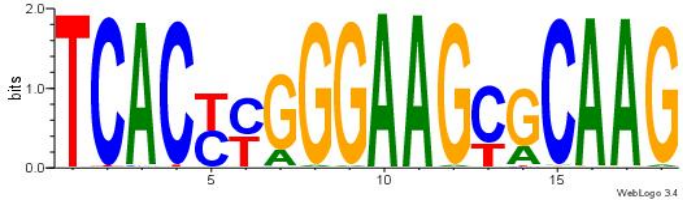

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.122497

Alignment:
CCACCACAGCTCAAGGAGGC
--TTGGAGGTTCTAGCAGGG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

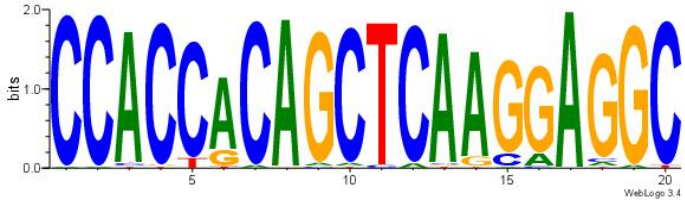

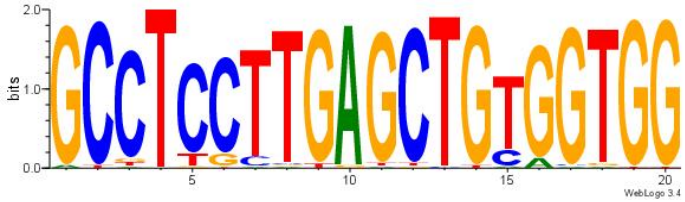

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.122743

Alignment:

```
MGGGATATAATCTCCTGGTG
TTGGAGGTTCTAGCAGGG--
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

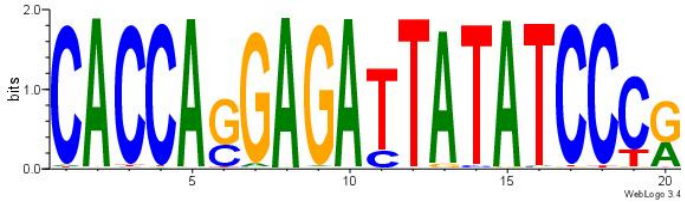

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

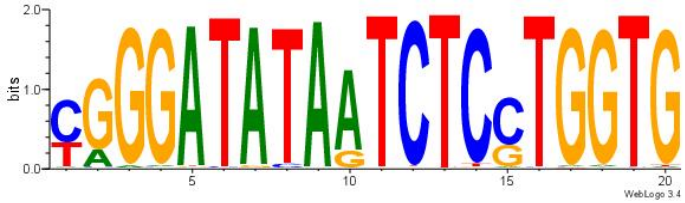

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.124608

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
-TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

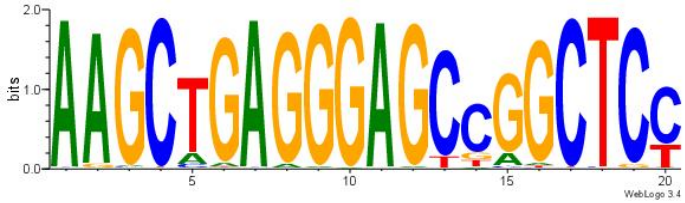

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

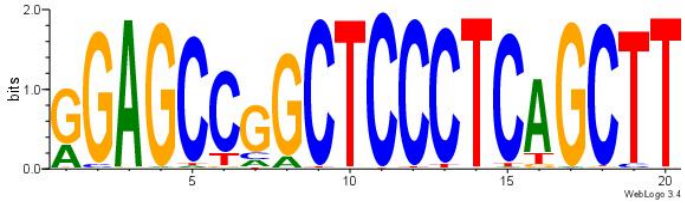

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.125122

Alignment:
GCCAGGCAGAGRGKCTCCT
CCCTGCTAGAACCTCCAA-

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

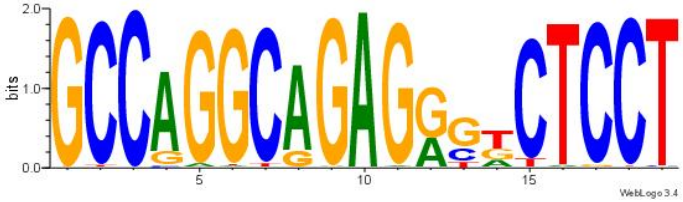

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

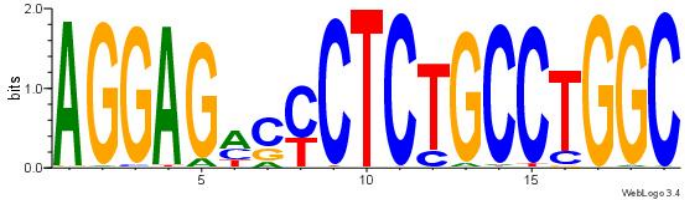

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.125138

Alignment:
ACATCMTCTGAAATCTAGG
-CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

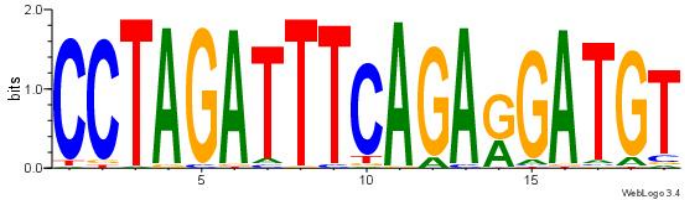

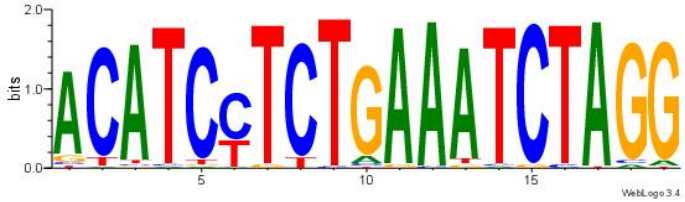

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.12554

Alignment:

```
AGTGACCCGATTTTCCAGGT
--TTGGAGGTTCTAGCAGGG
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

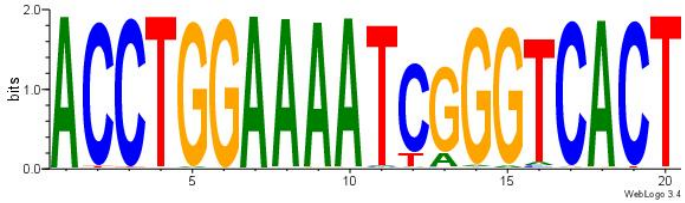

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

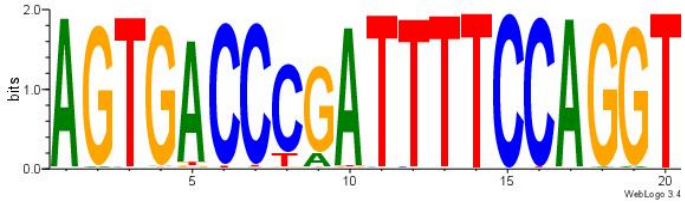

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.125654

Alignment:

```
CTCATTTAATCCTCACAAC
CCCTGCTAGAACCTCCAA-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

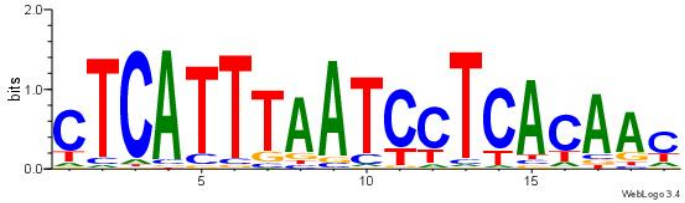

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

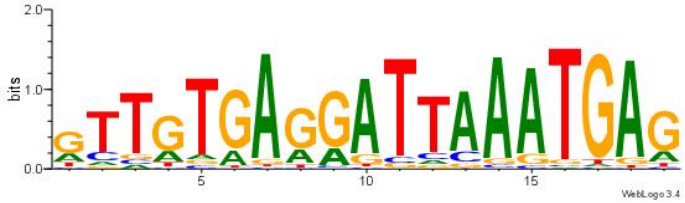

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.12666

Alignment:
ACAGGCTGTCCCAGGATTC
-TTGGAGGTTCTAGCAGGG

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

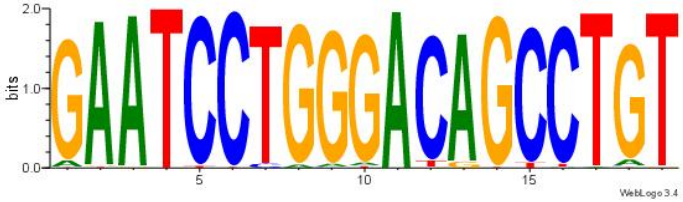

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

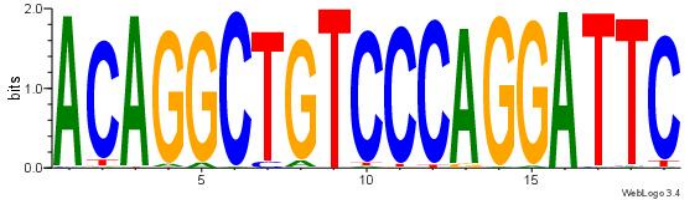

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.126816

Alignment:
CAAGGGTATAYGAGTAGCTG
-TTGGAGGTTCTAGCAGGG-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

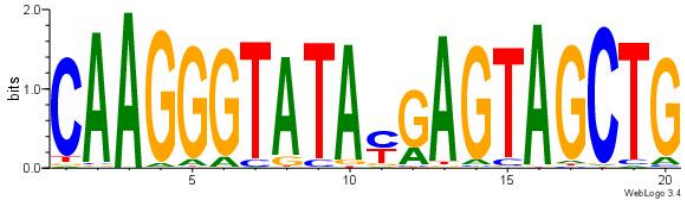

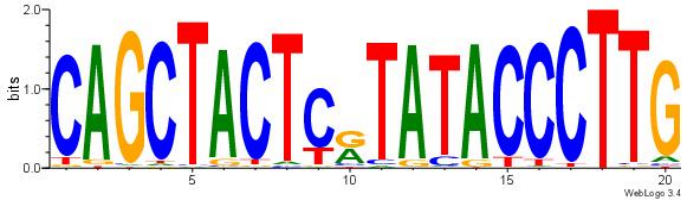

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.126935

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-TTGGAGGTTCTAGCAGGG
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

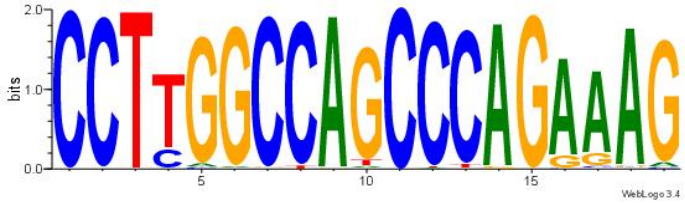

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

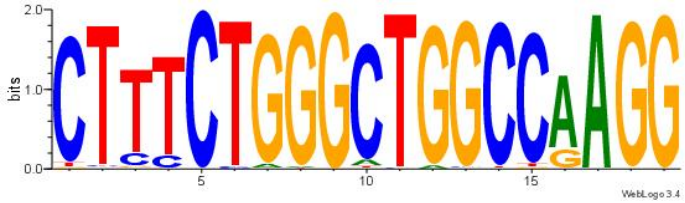

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.127282

Alignment:

```
AAGCAGGGCGAGGCATTGCC
--TTGGAGGTTCTAGCAGGG
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

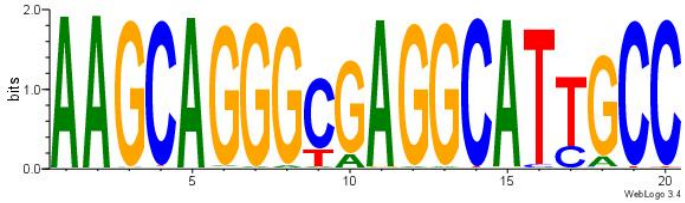

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

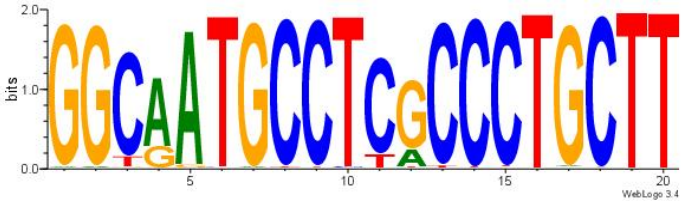

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.127294

Alignment:
MGTCTMKCTCTGTKGCCCAG
CCCTGCTAGAACCTCCAA--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

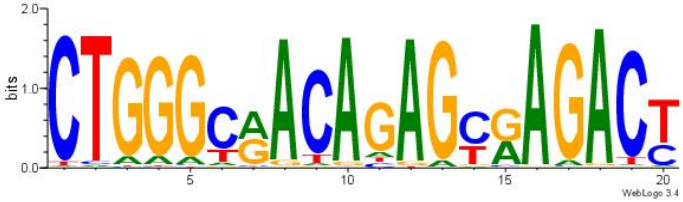

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

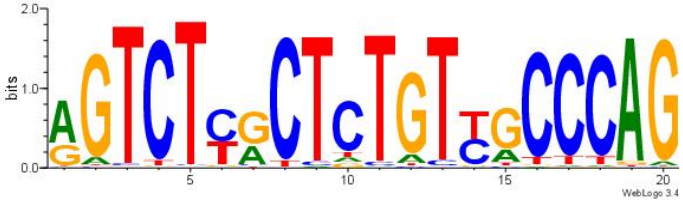

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.127644

Alignment:
GCCACCAMGCCMKGCTAAT
-CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

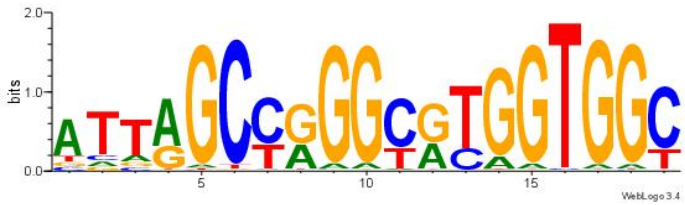

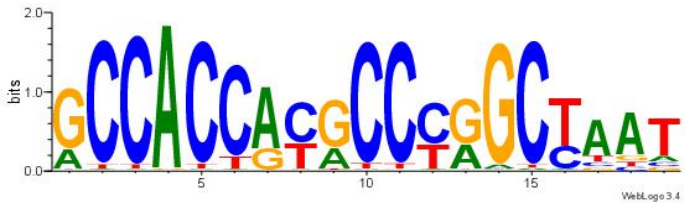

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.127959

Alignment:

```
ATGGCTGAATAKTATTCCAT
CCCTGCTAGAACCTCCAA--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

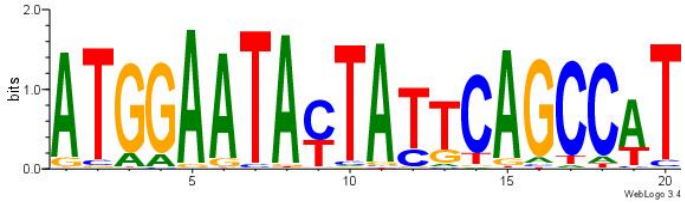

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

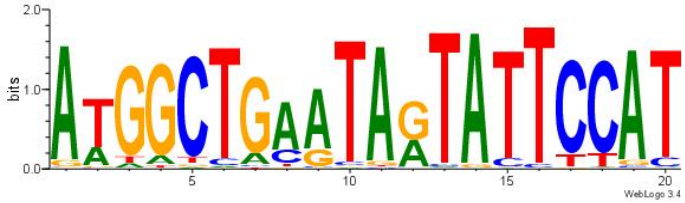

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.128223

Alignment:

```
GAAHCAACCKAAKTGTCCAT
CCCTGCTAGAACCTCCAA--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

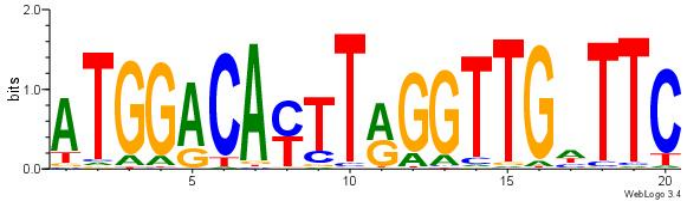

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

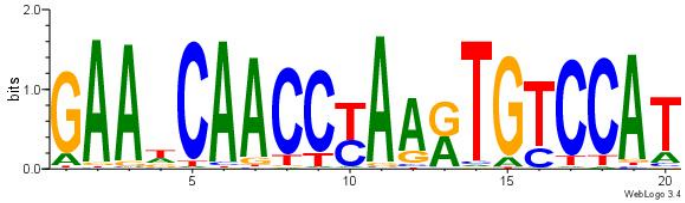

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.128278

Alignment:
ATCTGACAGGAGGYRGAGCT
CCCTGCTAGAACCTCCAA--

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

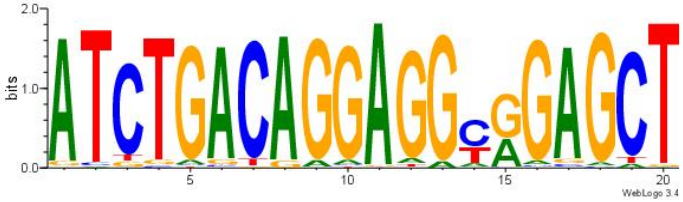

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

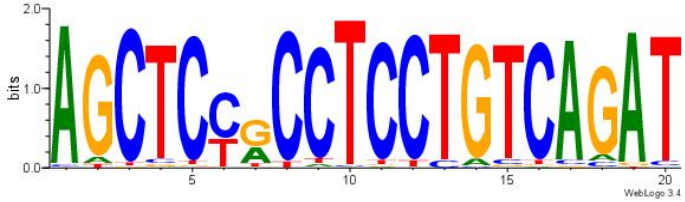

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.12847

Alignment:
KKCACCTTGATCTTGGACTT
--CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

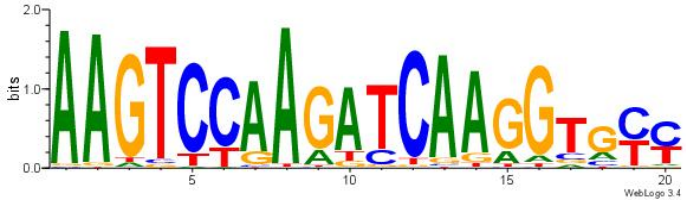

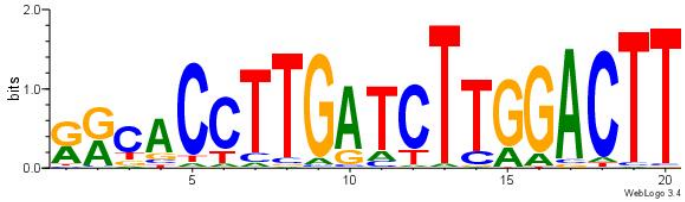

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.128511

Alignment:

```
GGATTTMKGACTTGCATGGG
-TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

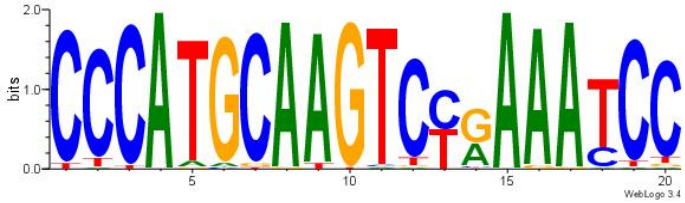

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

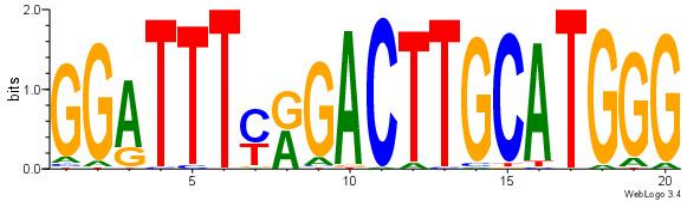

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.128915

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

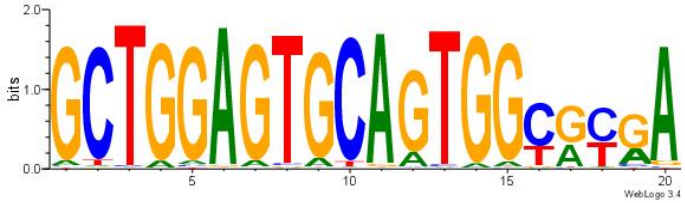

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

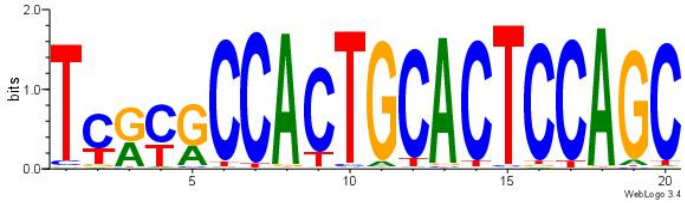

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.129604

Alignment:
CTTGCCCAAGGTCACACAGC
-TTGGAGGTTCTAGCAGGG-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

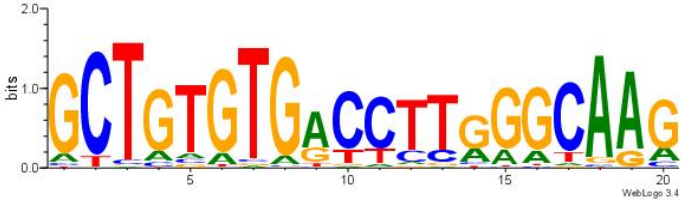

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

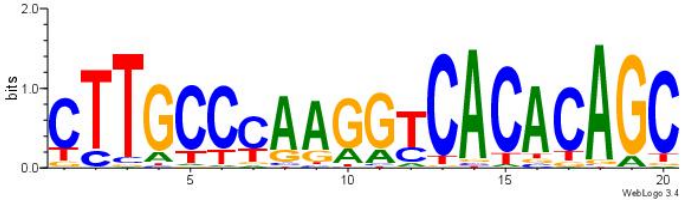

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.129683

Alignment:
HAGTGGKATTGCTGGATCAT
--TTGGAGGTTCTAGCAGGG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

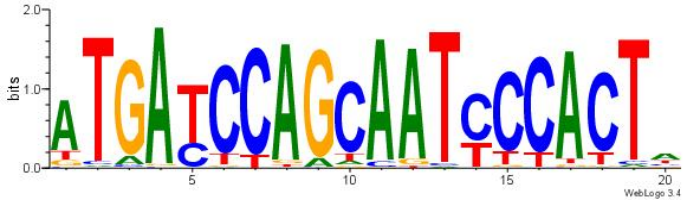

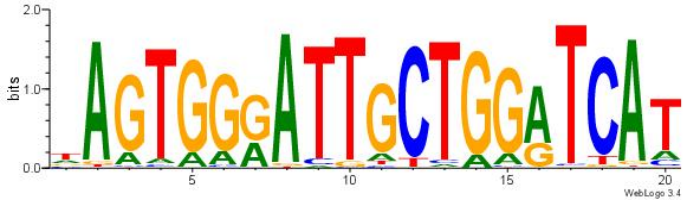

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.129709

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
-TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

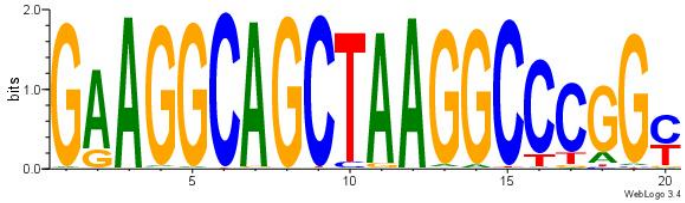

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

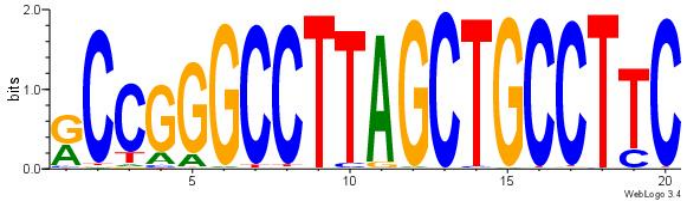

Dataset #: 1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.129824

Alignment:

```
KACGGGCTTAARAAACGGC
TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

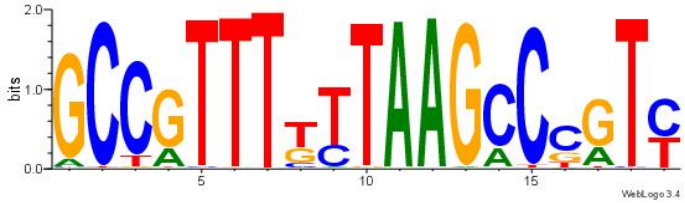

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

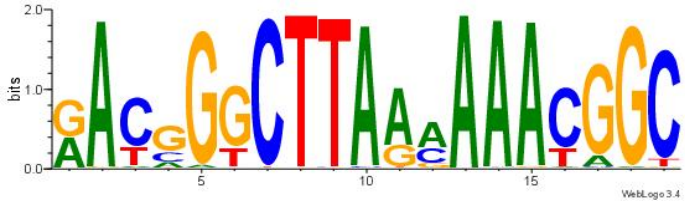

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.13051

Alignment:
GGGGGCTGACCCCCCCACC
CCCTGCTAGAACCTCCAA-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

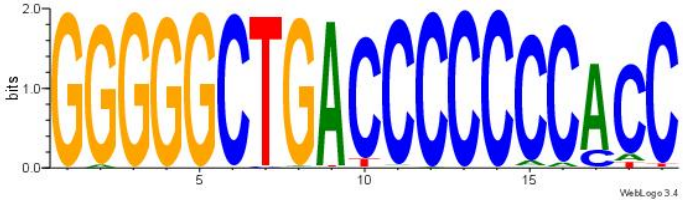

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

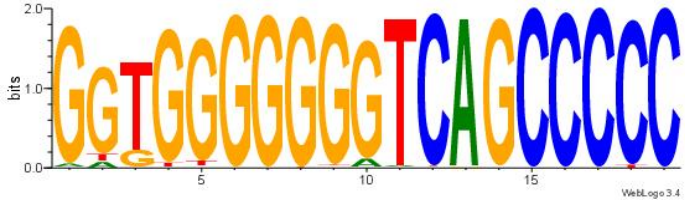

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.131365

Alignment:
GCCGGGRAGAGGCGCTCCT
-CCCTGCTAGAACCTCCAA

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

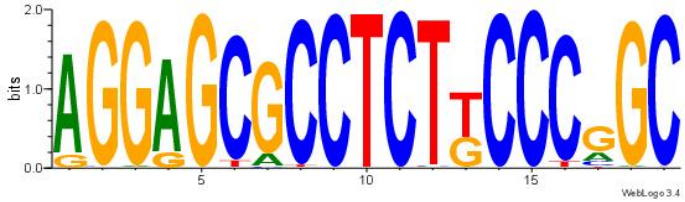

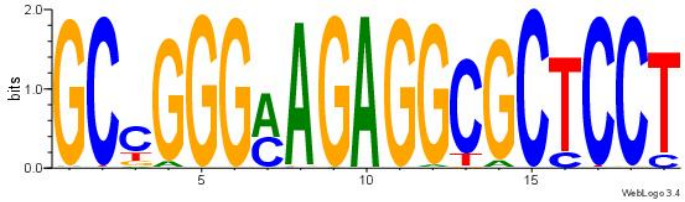

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.132269

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-CCCTGCTAGAACCTCCAA-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

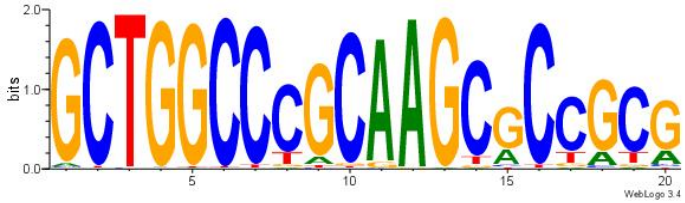

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

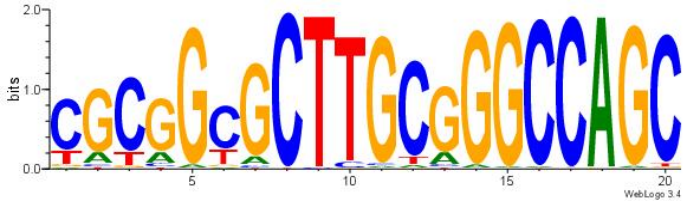

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.132291

Alignment:

```
AGTAGGTGCTCARTAAATRB
-TTGGAGGTTCTAGCAGGG-
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

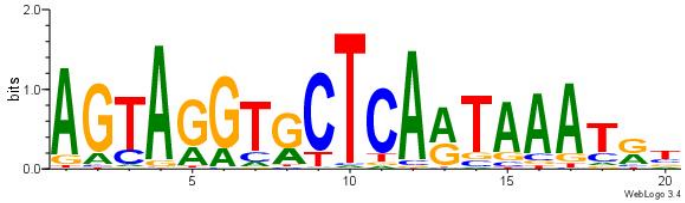

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

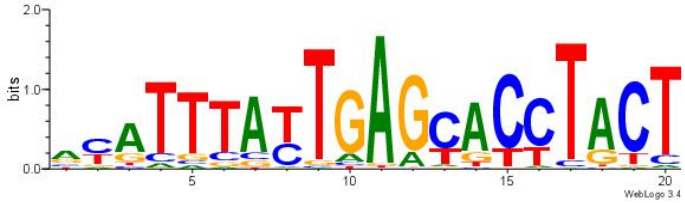

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.132747

Alignment:
CMTAGYACAGTGCCTGGCAC
-CCCTGCTAGAACCTCCAA-

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

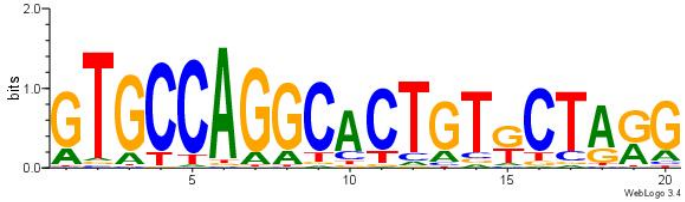

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

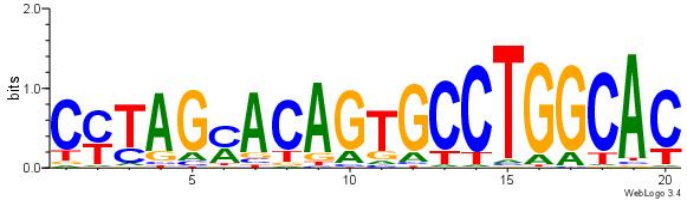

Dataset #: 1 Motif ID: 300 Motif name: Motif 300

Original motif Consensus sequence: CATTTTACAGA

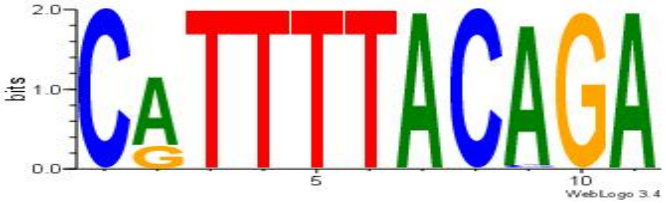

Reverse complement motif Consensus sequence: TCTGTAAAATG

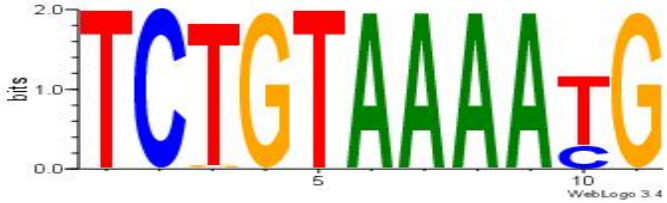

Best Matches for Motif ID 300 (Highest to Lowest)

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0501861

Alignment:

```
CACTTTCCAGACTGGGCA
-------CATTTTACAGA
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

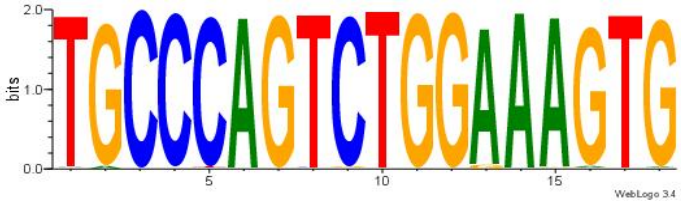

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

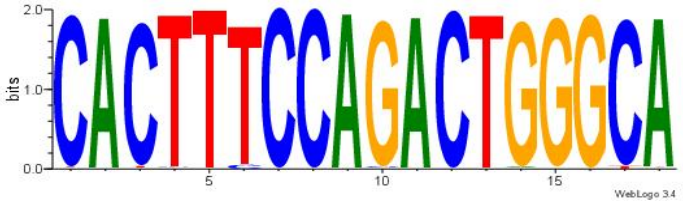

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.071946

Alignment:

```
GTTAACTGTAAAACAGCCT
----TCTGTAAAATG----
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

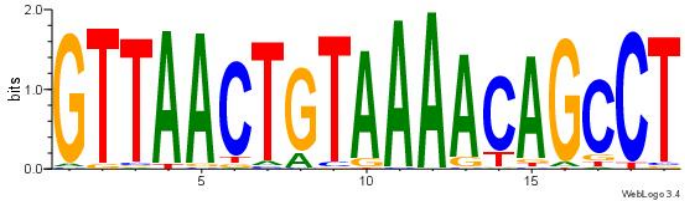

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

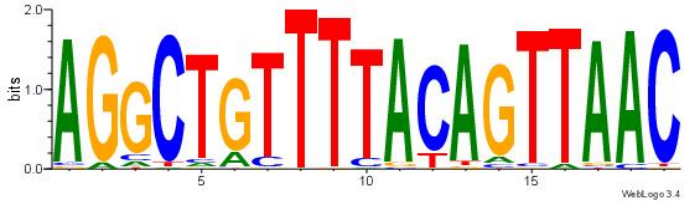

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0723755

Alignment:

```
AGTGACCCGATTTTCCAGGT
-CATTTTACAGA--------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

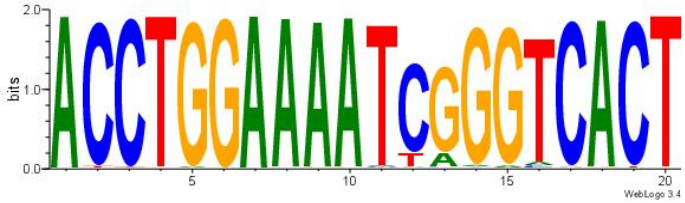

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

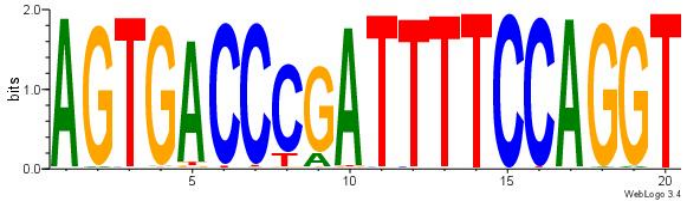

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0735422

Alignment:

```
CGCCCCGTCTGGGAAGTG
-------TCTGTAAAATG
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

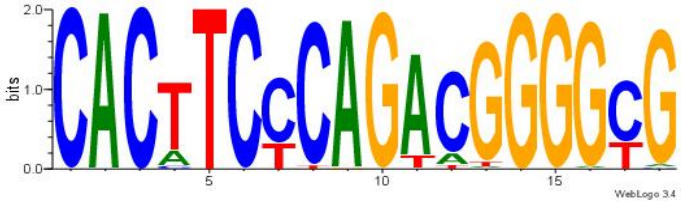

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

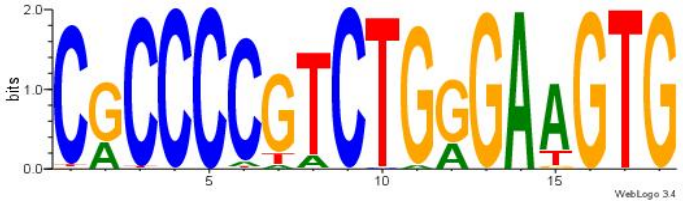

Dataset #:	1
Motif ID:	156
Motif name:	Motif 156
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0773708

Alignment:
GTCTGGGAAGTG
-TCTGTAAAATG

Original motif Consensus sequence: CACTTCCCAGAC

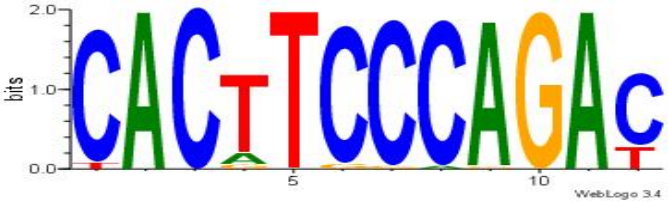

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

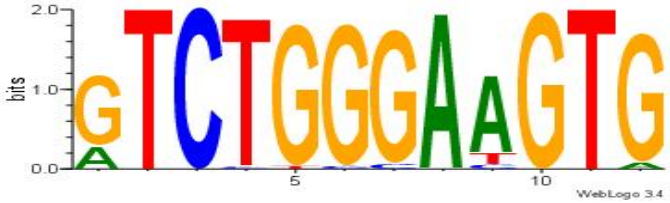

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0816087

Alignment:
AGTTCTTAAAGATGGT
---TCTGTAAAATG--

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

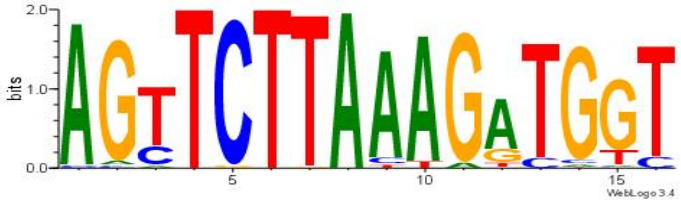

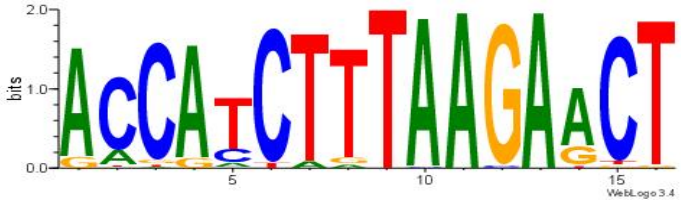

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0881312

Alignment:

```
CACCTCCCAGACMGGGT
------CATTTTACAGA
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

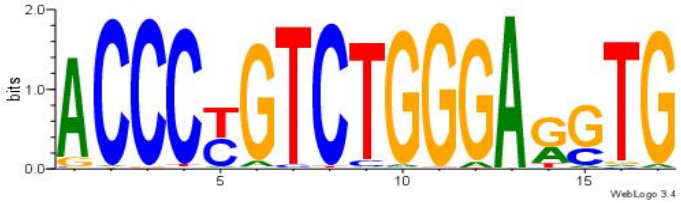

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

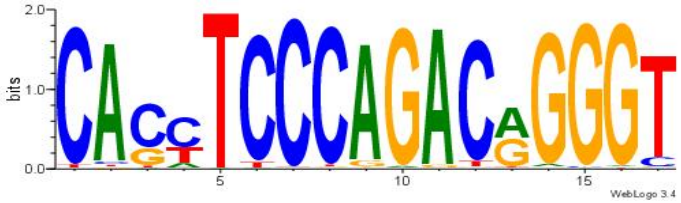

Dataset #: 1

Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0903859

Alignment:

```
CACTTCCTAGATGG
CATTTTACAGA---
```

Original motif Consensus sequence: CACTTCCTAGATGG

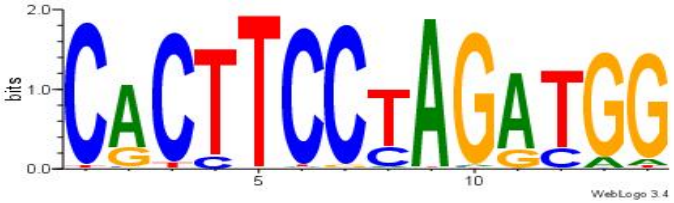

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

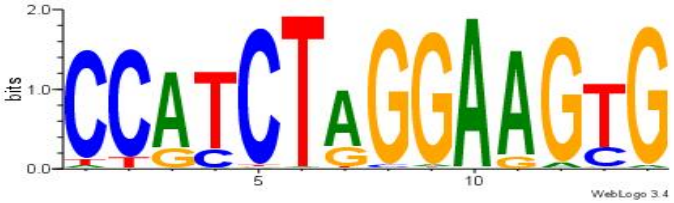

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0905812

Alignment:
ATGTTGTAGCATGT
--TCTGTAAAATG-

Original motif Consensus sequence: ACATGCTACAACAT

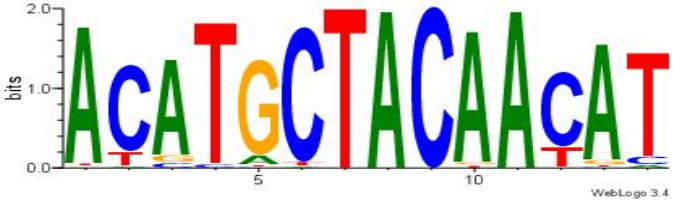

Reverse complement motif Consensus sequence: ATGTTGTAGCATG

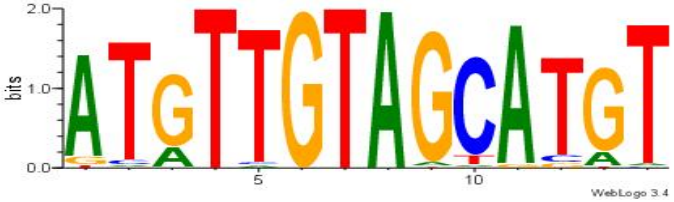

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0924854

Alignment:
AGCTGTGAGAAGAGGGCCAC
--------TCTGTAAAATG-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

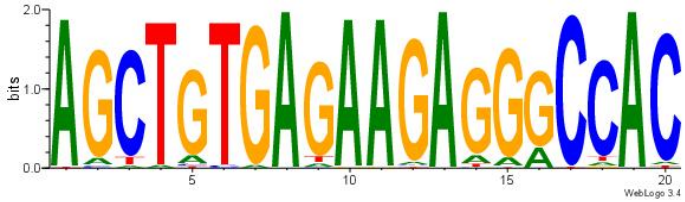

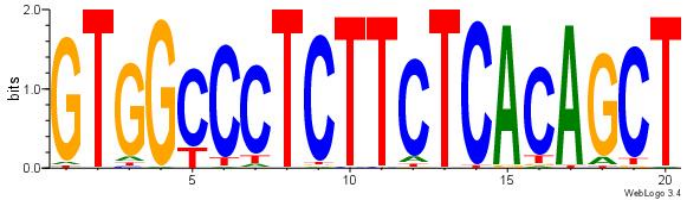

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0931247

Alignment:

```
KCAGTGTACACTGM
--TCTGTAAAATG-
```

Original motif Consensus sequence: RCAGTGTACACTGY

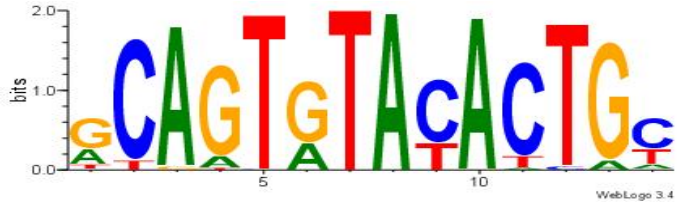

Reverse complement motif Consensus sequence: KCAGTGTACACTG

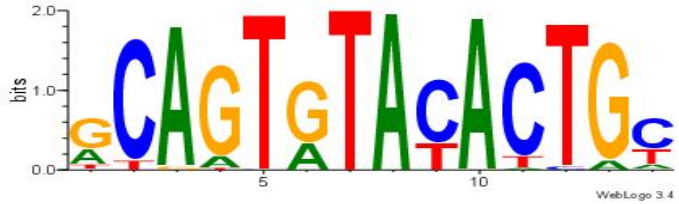

Dataset #:	1
Motif ID:	242

Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0937452

Alignment:

```
CMCAGTTCACAATAGGGTT
------CATTTTACAGA--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

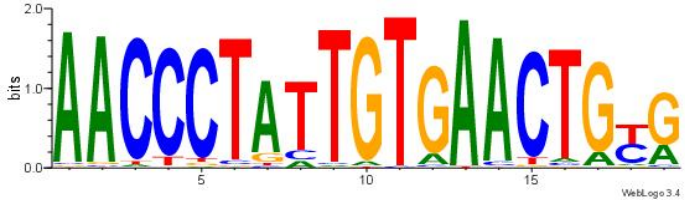

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

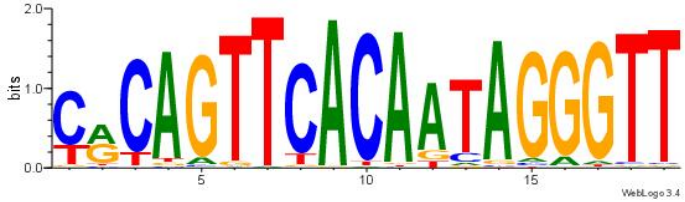

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0940974

Alignment:
AAATCTTAAAGCTC
-CATTTTACAGA--

Original motif Consensus sequence: AAATCTTAAAGCTC

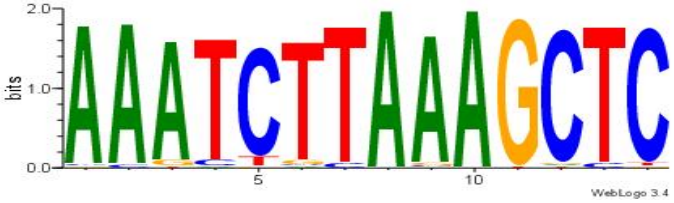

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

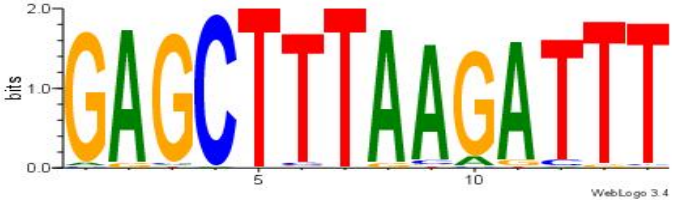

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0946856

Alignment:
GCTCTCAATTGGTCATT
TCTGTAAAATG------

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

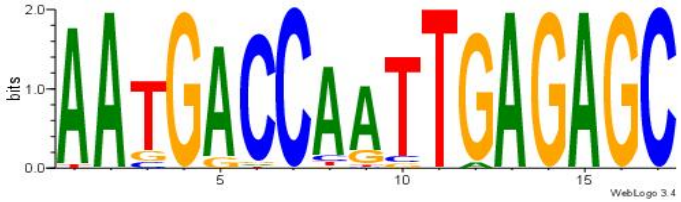

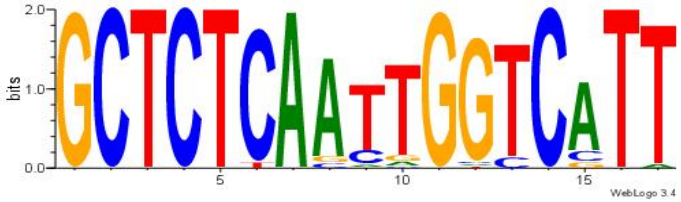

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0958742

Alignment:

```
GCAGCAMTATTCACAATAG
----CATTTTACAGA----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

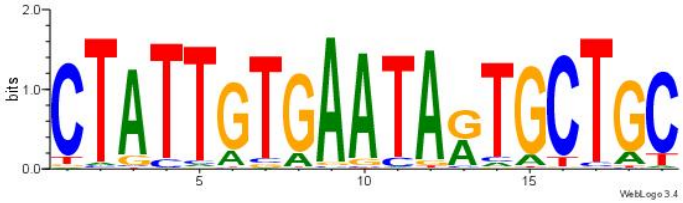

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

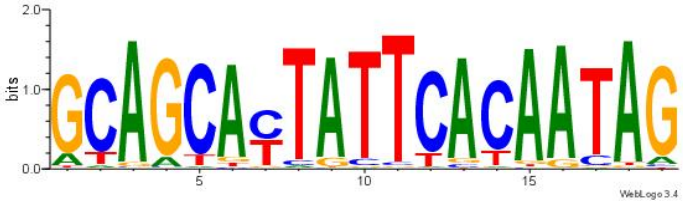

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.097189

Alignment:

```
TWTACCTATGTAACAAACCT
---CATTTTACAGA------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

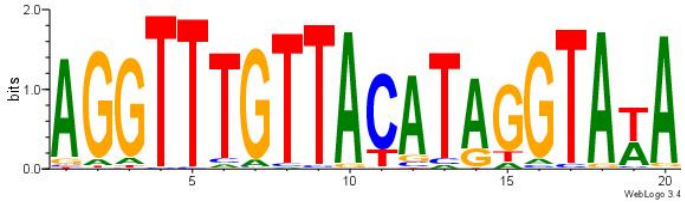

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

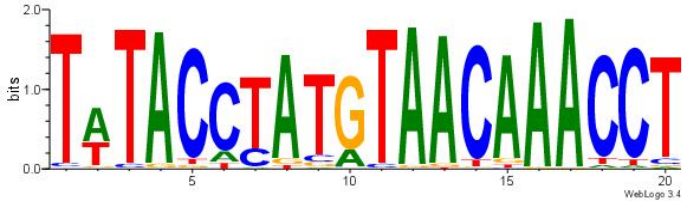

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0974305

Alignment:
ATTGGTGTATTTACAATCCC
--TCTGTAAAATG-------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

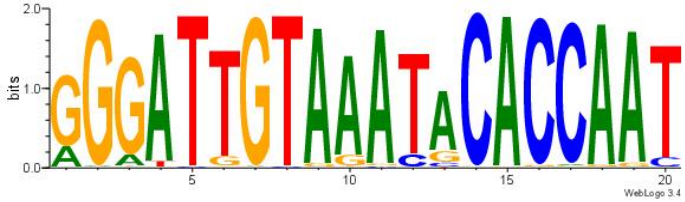

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0978125

Alignment:
CATCTGGCAGCCCA
CATTTTACAGA---

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

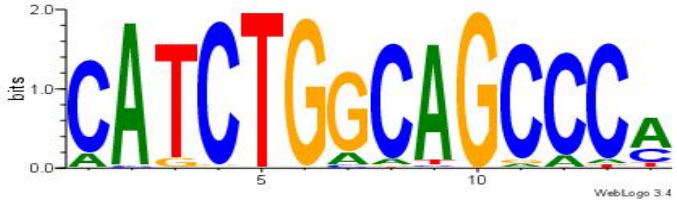

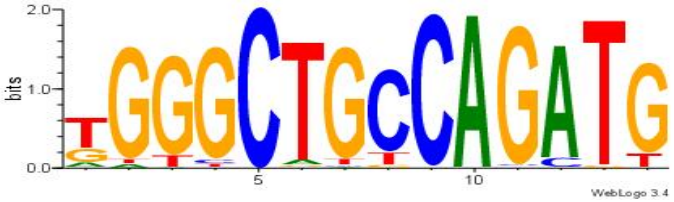

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0978478

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
--------TCTGTAAAATG-
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

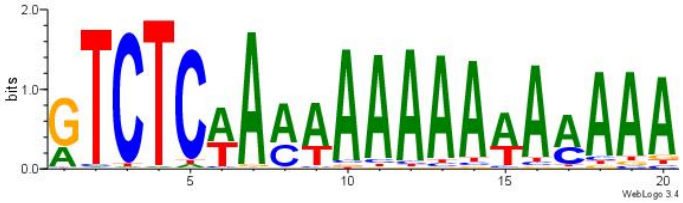

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

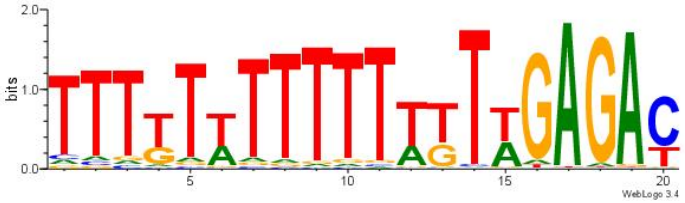

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0981198

Alignment:

```
ACACATCACAAAGCAGTTTC
-CATTTTACAGA--------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

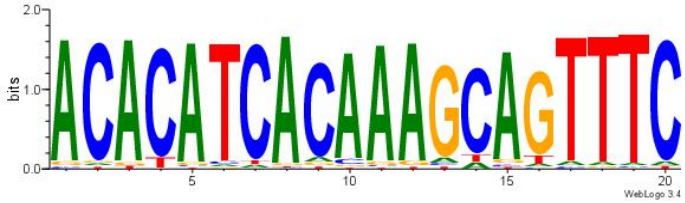

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

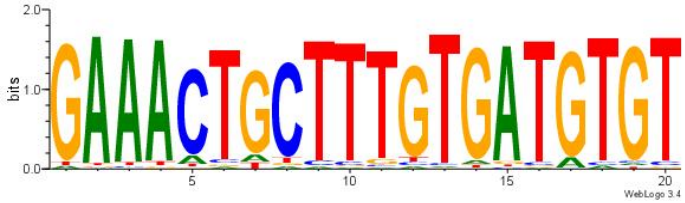

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0984312

Alignment:
CAAGCCTSKGCAATGGCAGG
----TCTGTAAAATG-----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

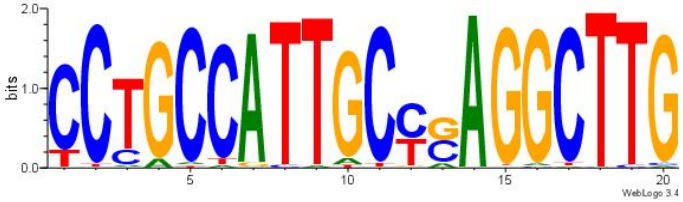

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

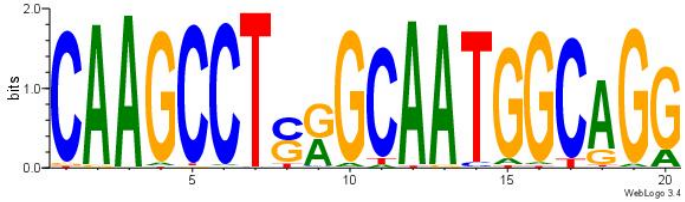

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0996629

Alignment:
CATTTGGGAGCCCATTGA
CATTTTACAGA-------

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence:
TCAATGGGCTCCCAAATG

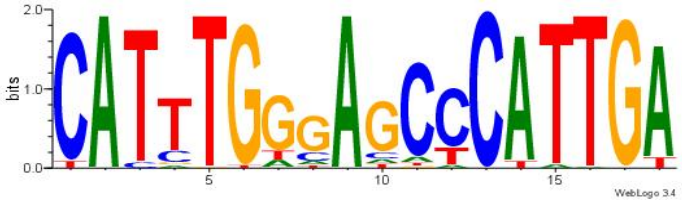

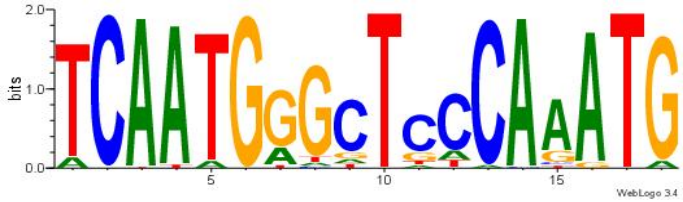

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.100143

Alignment:

```
CAAASCKGTCATAGGCCAT
----TCTGTAAAATG----
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

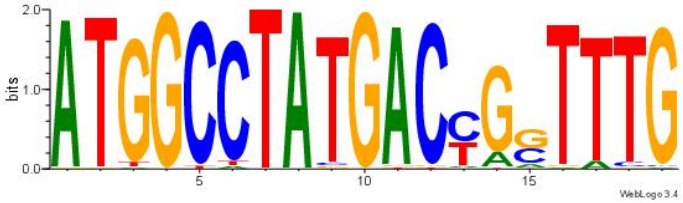

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

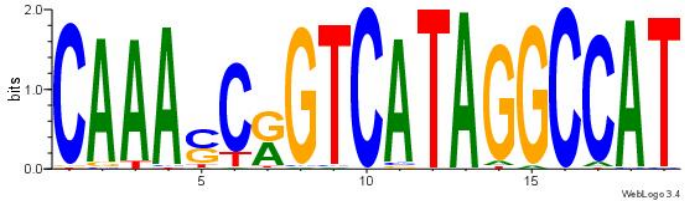

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.100746

Alignment:

```
CCTAGATTTCAGARGATGT
--CATTTTACAGA------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

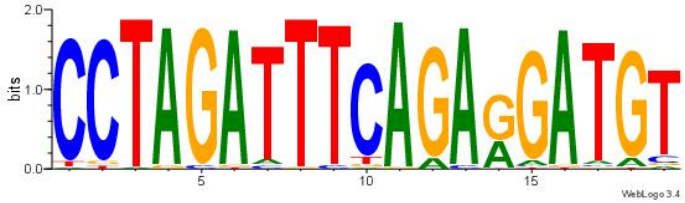

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

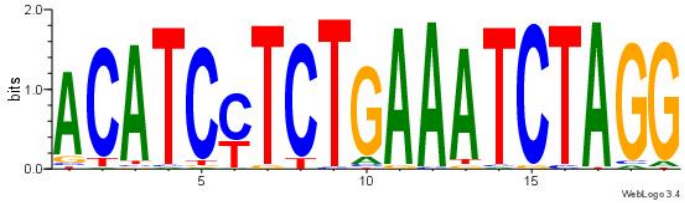

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.101143

Alignment:
GTCTTTATCAGC
-TCTGTAAAATG

Original motif Consensus sequence: GCTGATAAAGAC

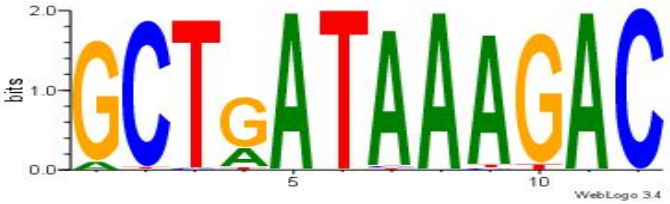

Reverse complement motif Consensus sequence: GTCTTTATCAGC

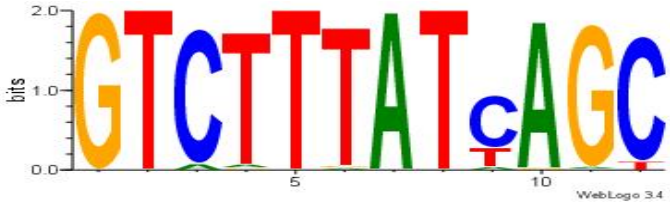

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.101663

Alignment:
ATCTCASAAATCACCACTA
-------TCTGTAAAATG-

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

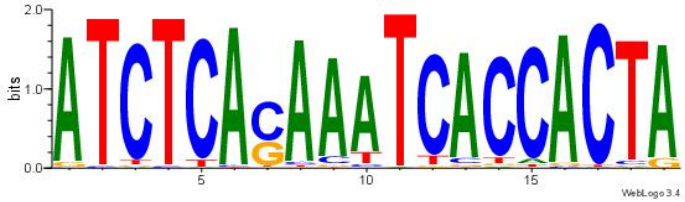

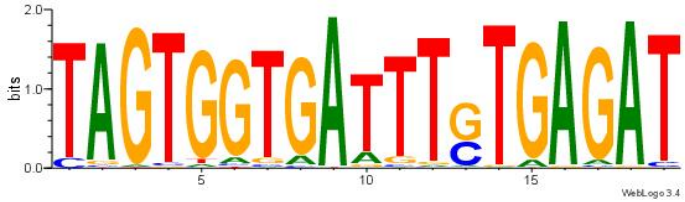

Dataset #:	1
Motif ID:	287
Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.101705

Alignment:

```
CATTATGCTAARTG
CATTTTACAGA---
```

Original motif Consensus sequence: CATTATGCTAARTG

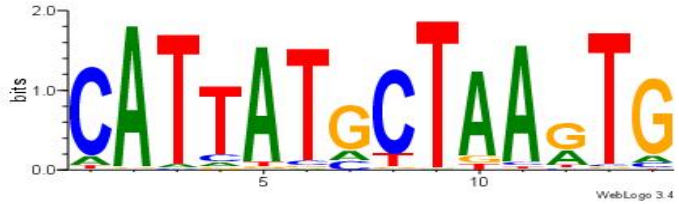

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

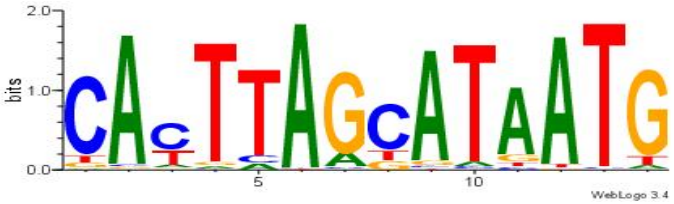

Dataset #:	1
Motif ID:	158

Motif name:	Motif 158
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.102053

Alignment:

```
TAGTTTGCTGA
CATTTTACAGA
```

Original motif Consensus sequence: TAGTTTGCTGA

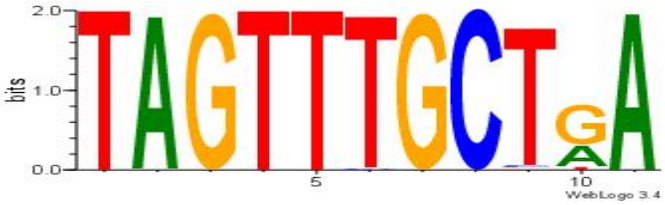

Reverse complement motif Consensus sequence: TCAGCAAACTA

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.102771

Alignment:
TAATTTTATGTGTCAACTTG
--------TCTGTAAAATG-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

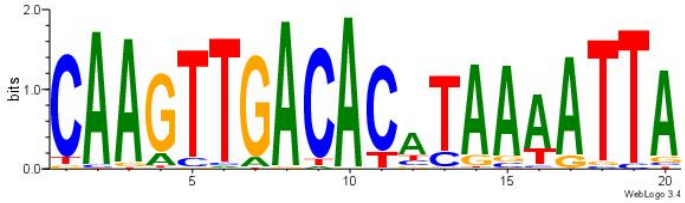

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

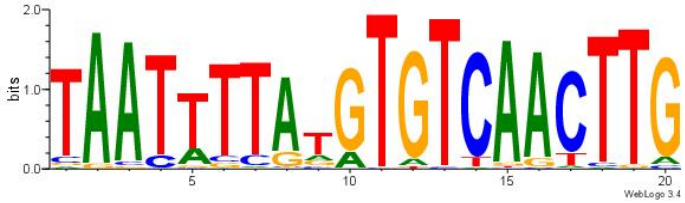

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.104522

Alignment:
GCACTCTGTMTCTAGCT
----TCTGTAAAATG--

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence:
GCACTCTGTMTCTAGCT

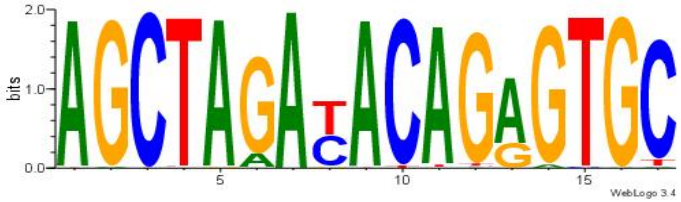

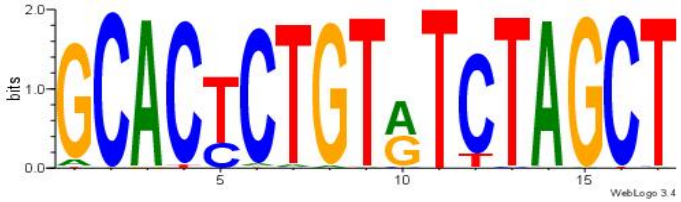

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.105843

Alignment:

```
ACAGGCTGTCCCAGGATTC
----TCTGTAAAATG----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

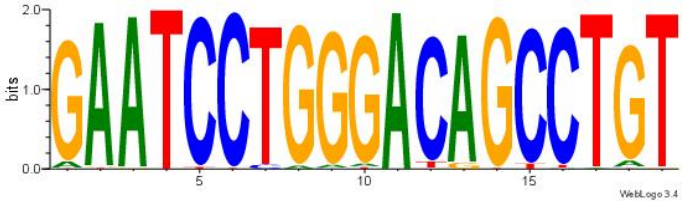

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

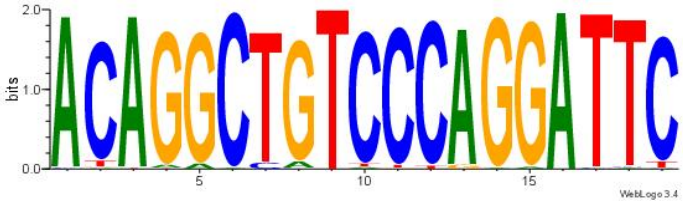

Dataset #: 1

Motif ID:	24
Motif name:	Motif 24
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.106295

Alignment:

```
TTTCTTTGACTRG
--TCTGTAAAATG
```

Original motif Consensus sequence: CKAGTCAAAGAAA

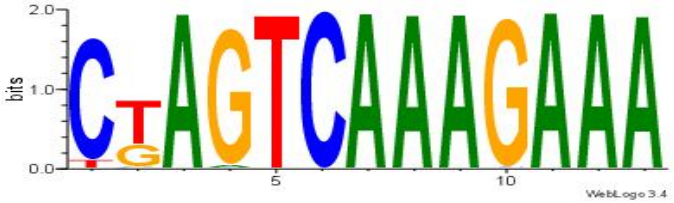

Reverse complement motif Consensus sequence: TTTCTTTGACTRG

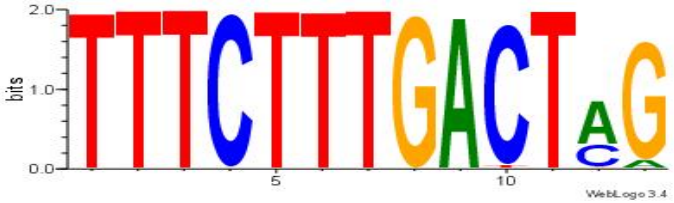

Dataset #:	1
Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.106474

Alignment:
TTCCTAACAGGCCA
TCTGTAAAATG---

Original motif Consensus sequence: TGGCCTGTTAGGAA

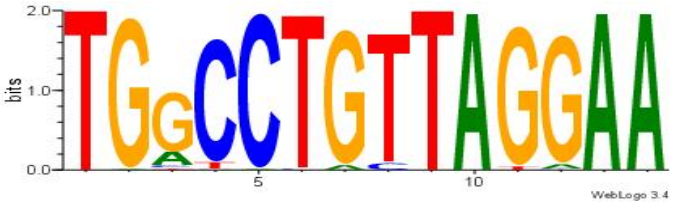

Reverse complement motif Consensus sequence: TTCCTAACAGGCC

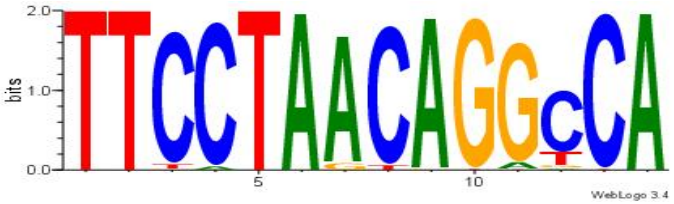

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.106773

Alignment:
AAGTCTCCCAATTACAACT
-CATTTTACAGA-------

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

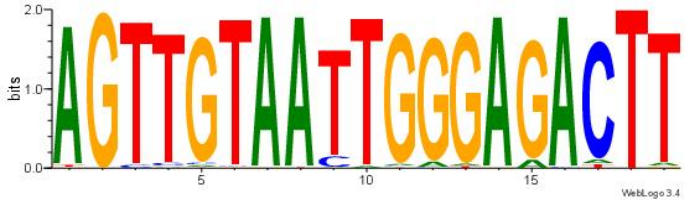

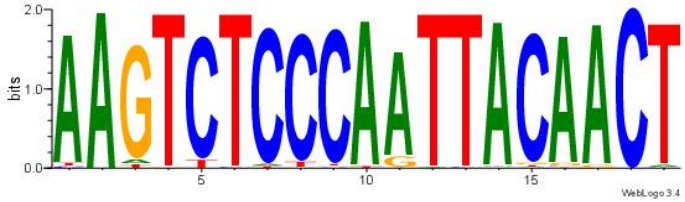

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.106854

Alignment:

```
AGTGTTTCCAAMCTGCT
----TCTGTAAAATG--
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

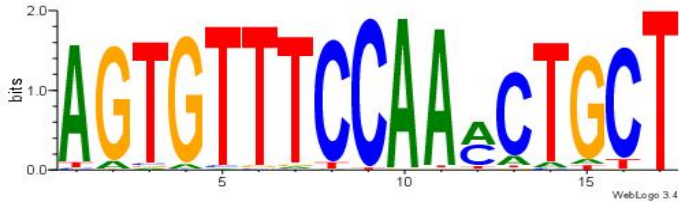

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

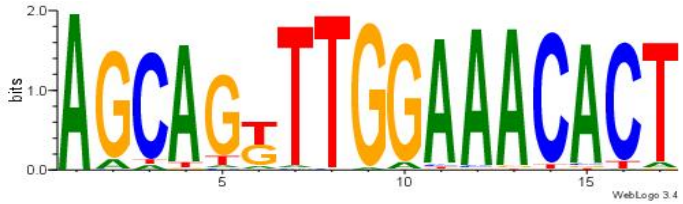

Dataset #: 1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.107192

Alignment:

```
CTCAGGAATGGAAAACC
TCTGTAAAATG------
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

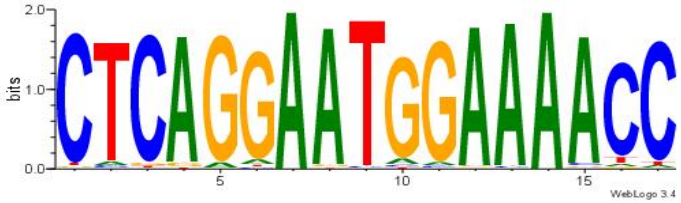

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

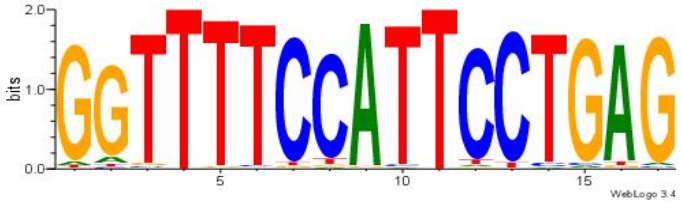

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.108432

Alignment:
GCTTCTGGTGAGGGC
---TCTGTAAAATG-

Original motif Consensus sequence: GCCCTCACCAGAAGC

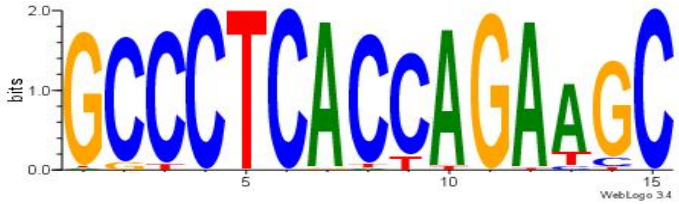

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

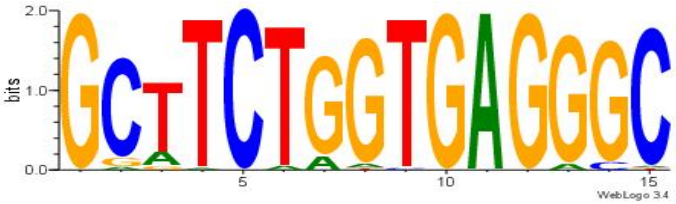

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.109344

Alignment:
GGTTCATCTCACTAGGGAGT
----CATTTTACAGA-----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

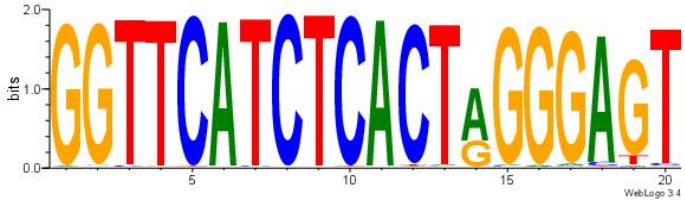

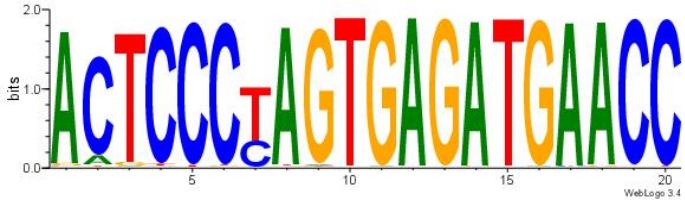

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.109969

Alignment:

```
AAGGAACAAACTCCRGACAC
------CATTTTACAGA---
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

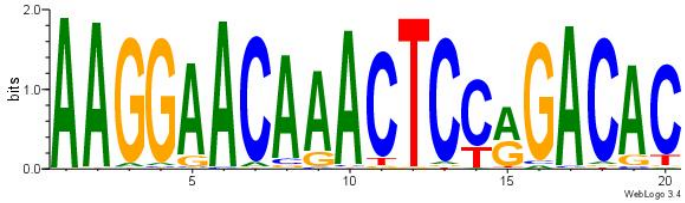

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

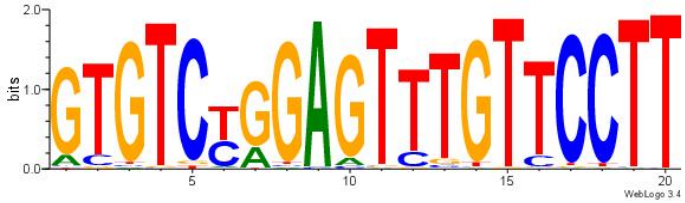

Dataset #: 1

Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.109988

Alignment:

```
TAGTTTTTAACAA
-CATTTTACAGA-
```

Original motif Consensus sequence: TAGTTTTTAACAA

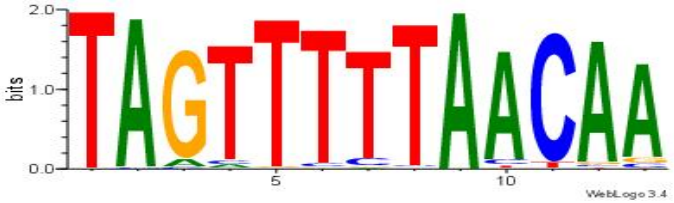

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

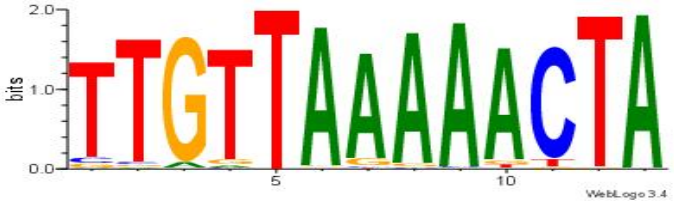

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.110011

Alignment:
GCAWSTGCAAAGGCCCT
---TCTGTAAAATG---

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

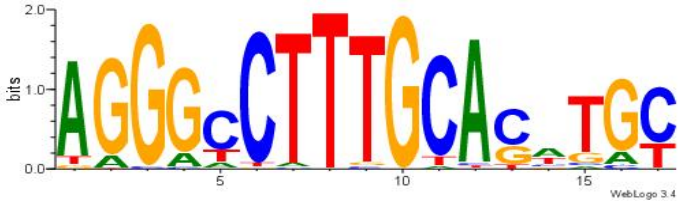

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

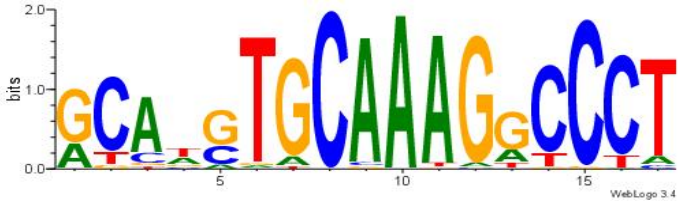

Dataset #:	1
Motif ID:	282
Motif name:	Motif 282
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.110543

Alignment:
TTTTAGTAGAGAC
-CATTTTACAGA-

Original motif Consensus sequence: GTCTCTACTAAAA

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

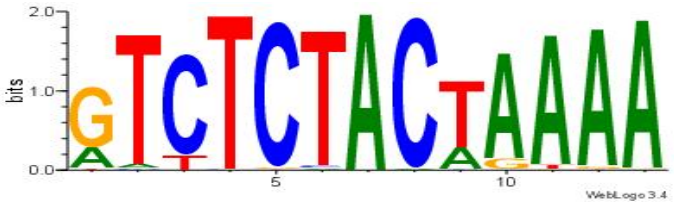

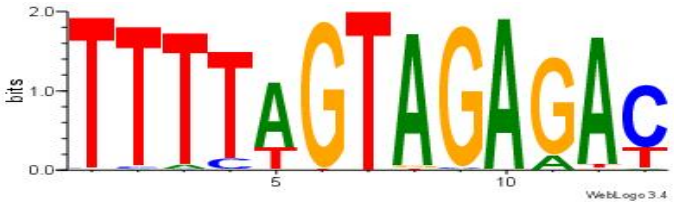

Dataset #:	1
Motif ID:	80
Motif name:	Motif 80
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.110776

Alignment:

```
WTTTTWAAAAW
TCTGTAAAATG
```

Original motif Consensus sequence: WTTTTWAAAAW

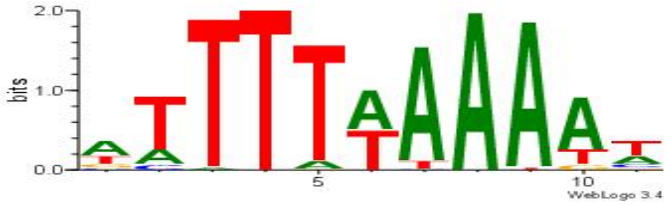

Reverse complement motif Consensus sequence: WTTTTWAAAAW

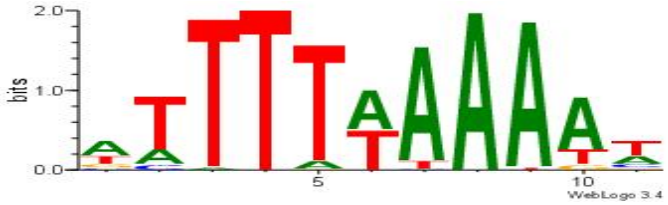

Dataset #:	1
Motif ID:	255

Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.11089

Alignment:

```
TTTGTTATAGCAG
--CATTTTACAGA
```

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

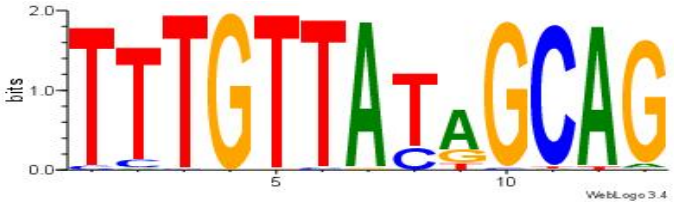

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.111154

Alignment:
CGCACTCCTCAGCC
--CATTTTACAGA-

Original motif Consensus sequence: CGCACTCCTCAGCC

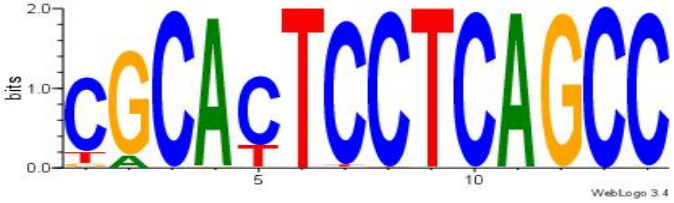

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

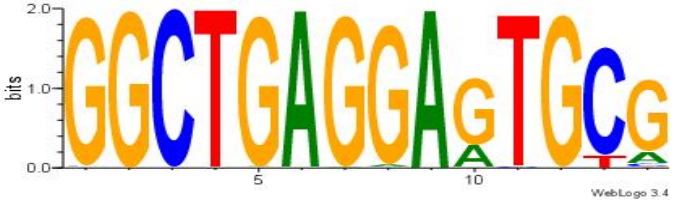

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.111588

Alignment:
GCTGGGATTACAGG
---CATTTTACAGA

Original motif Consensus sequence: GCTGGGATTACAGG

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

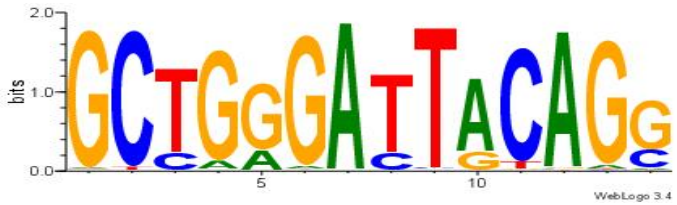

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.111783

Alignment:

```
CTTTCTGGGCTGGCCAAGG
--------TCTGTAAAATG
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

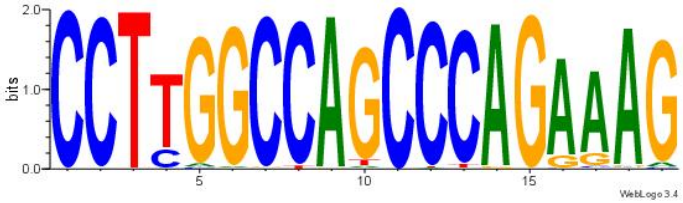

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

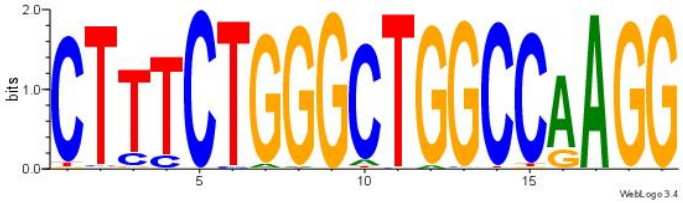

Dataset #: 1

Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.111922

Alignment:

```
ACACCTATTCGCACAC
----CATTTTACAGA-
```

Original motif Consensus sequence: ACACCTATTCGCACAC

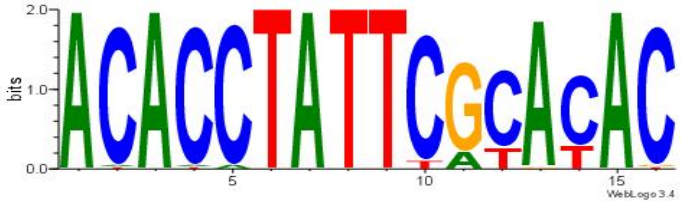

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

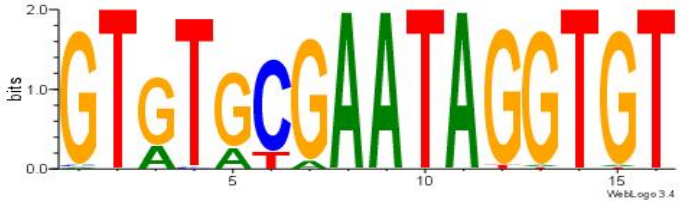

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.112004

Alignment:
GGGGTGACAGABGB
CATTTTACAGA---

Original motif Consensus sequence: GGGGTGACAGABGB

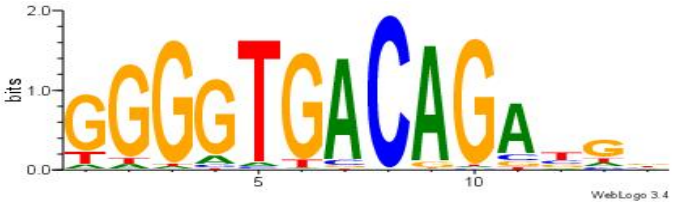

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

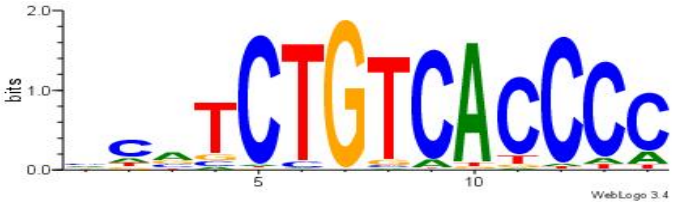

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.112326

Alignment:
ACCCAATWTGTAGTCTTTTA
------TCTGTAAAATG---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

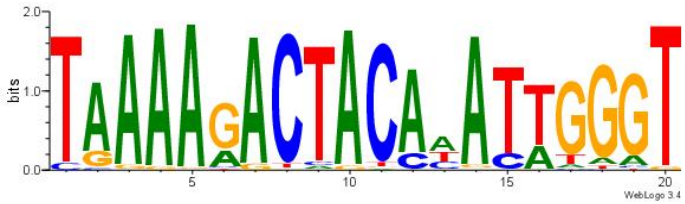

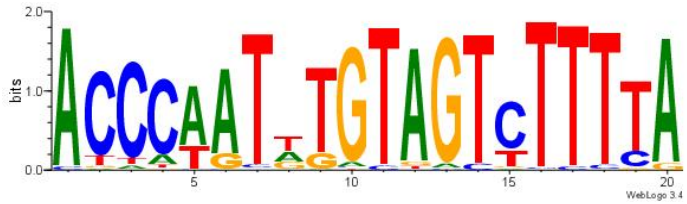

Dataset #: 1 Motif ID: 301 Motif name: Motif 301

Original motif Consensus sequence: CCAAGACYCCAGAC

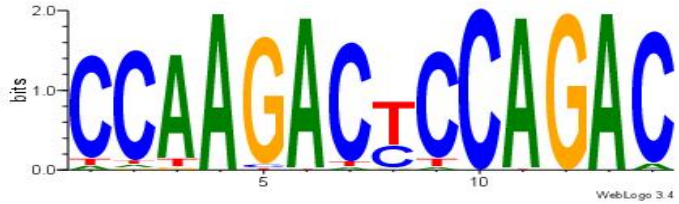

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

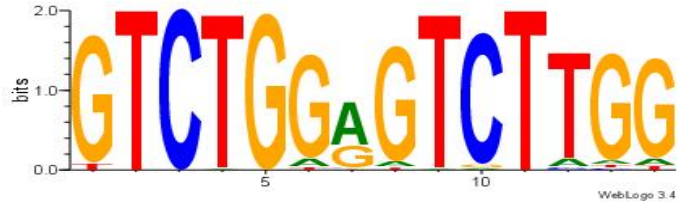

Best Matches for Motif ID 301 (Highest to Lowest)

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0547706

Alignment:

```
MTCCTCCAGACCCCAGAATG
----CCAAGACYCCAGAC--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

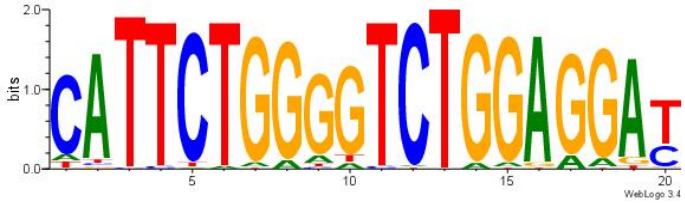

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

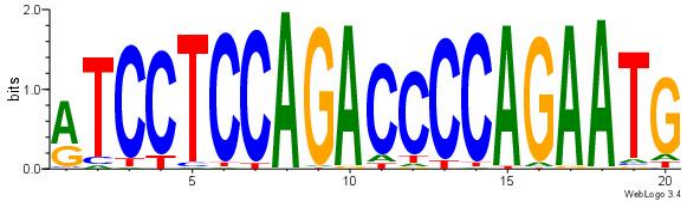

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0659934

Alignment:

```
CCTAGATTTCAGARGATGT
CCAAGACYCCAGAC-----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

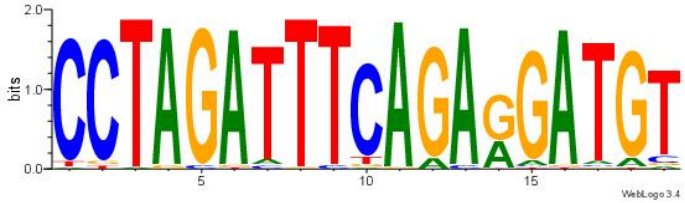

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

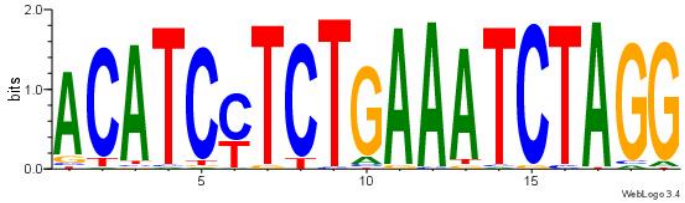

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0768046

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
--GTCTGGMGTCTTGG----
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

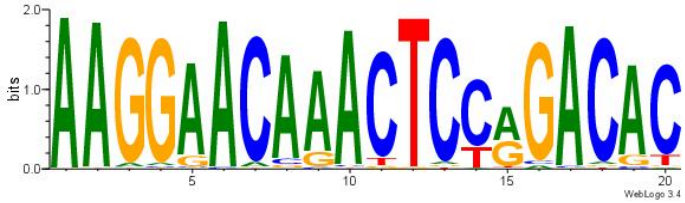

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

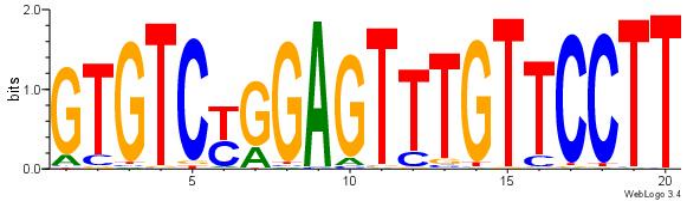

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.0814768

Alignment:
ACCCAATWTGTAGTCTTTTA
-----GTCTGGMGTCTTGG-

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

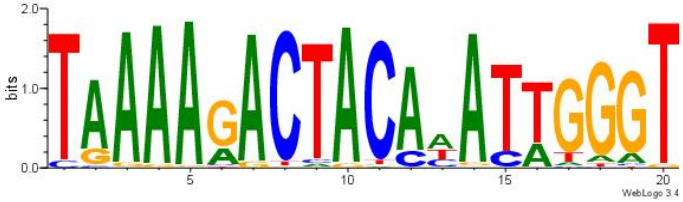

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

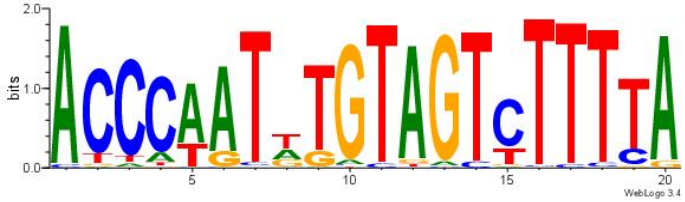

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0823107

Alignment:
GCCKGGMKCMGTGGCTCAKG
GTCTGGMGTCTTGG------

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

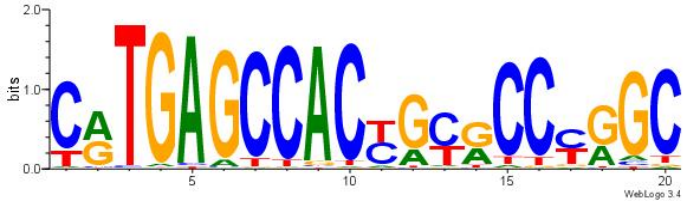

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

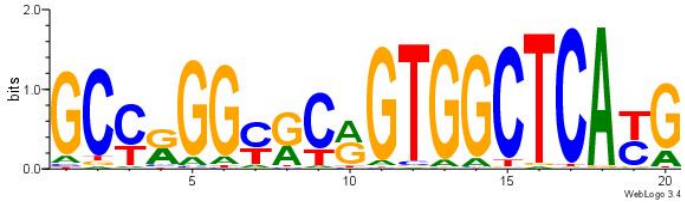

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0838204

Alignment:

```
CACCAGACTCAGGAGCCCAG
-----CCAAGACYCCAGAC-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

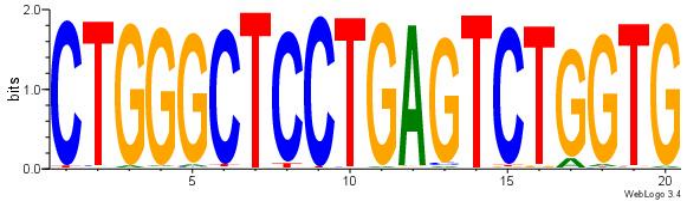

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

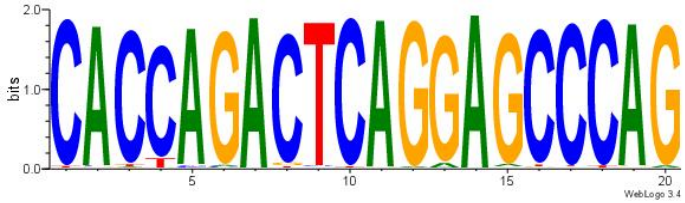

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0857189

Alignment:

```
ATTAGCYRGGCRTGGTGGC
-GTCTGGMGTCTTGG----
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

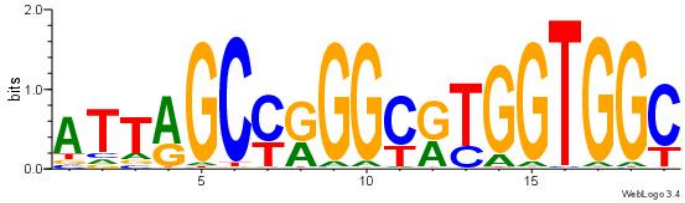

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

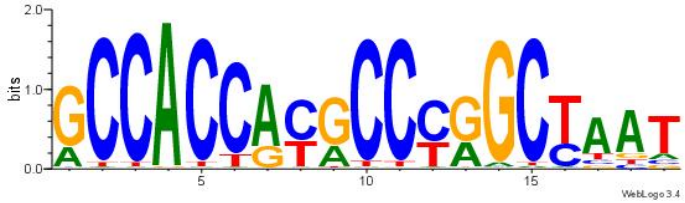

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.0876966

Alignment:
CGGCTTCATTCTTGAAGTC
-GTCTGGMGTCTTGG----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

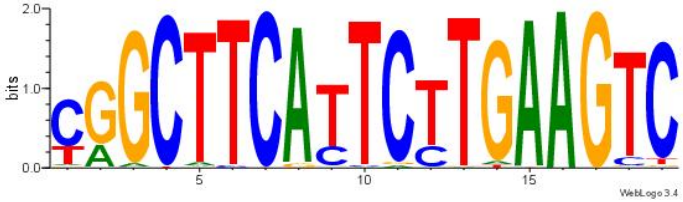

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0907564

Alignment:
AAAAGTCCACAGTCCAAAGT
CCAAGACYCCAGAC------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

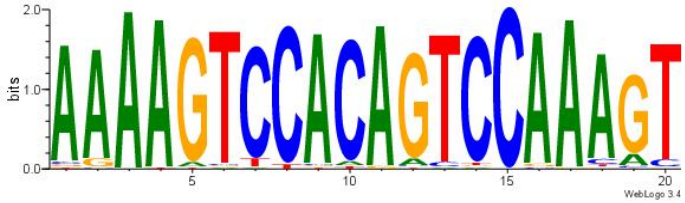

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

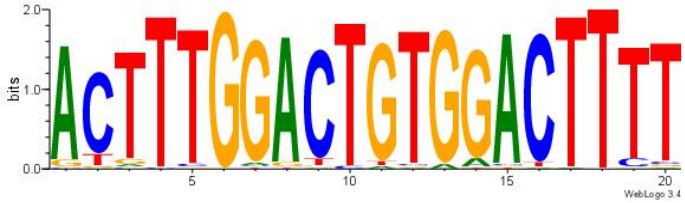

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0930536

Alignment:

```
CGCCCATCGTCTGGGATGT
-GTCTGGMGTCTTGG----
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

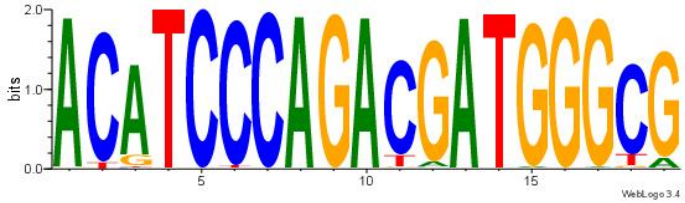

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

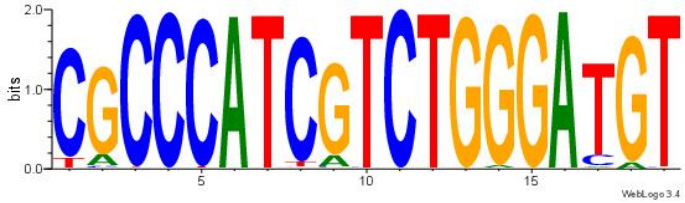

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0944199

Alignment:

```
CAAAGGCATAAGAATGAT
CCAAGACYCCAGAC----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

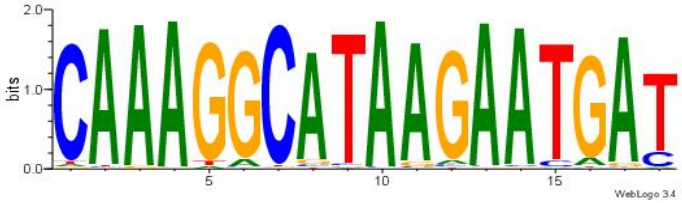

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

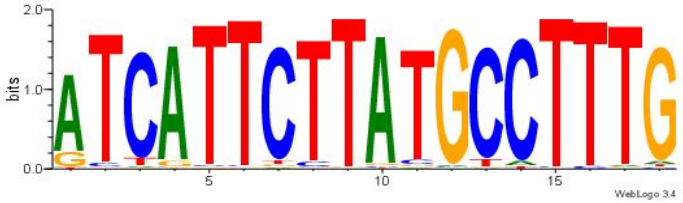

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0966325

Alignment:
GGGGGAGACATCACACR
--CCAAGACYCCAGAC-

Original motif Consensus sequence: GGGGGAGACATCACACR

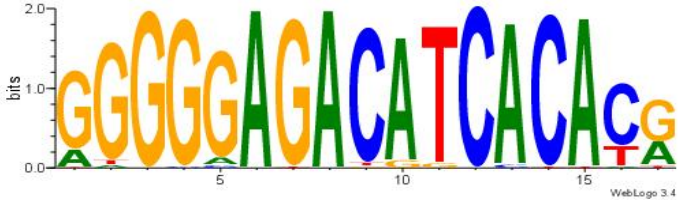

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

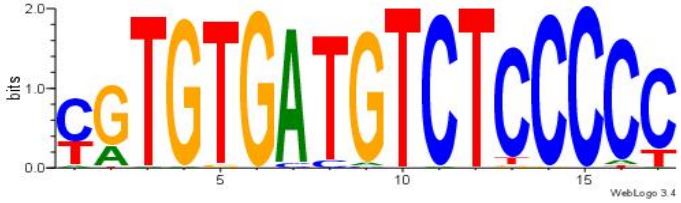

Dataset #: 1
Motif ID: 341
Motif name: Motif 341
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.100015

Alignment:
TGGATGGATGGATGGAT
-GTCTGGMGTCTTGG--

Original motif Consensus sequence: ATCCATCCATCCATCCA

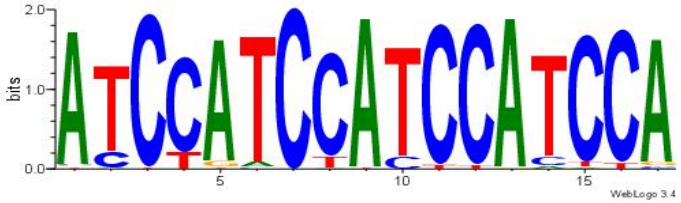

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.100071

Alignment:

```
CCCATGCAAGTCYRAAATCC
-----CCAAGACYCCAGAC-
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

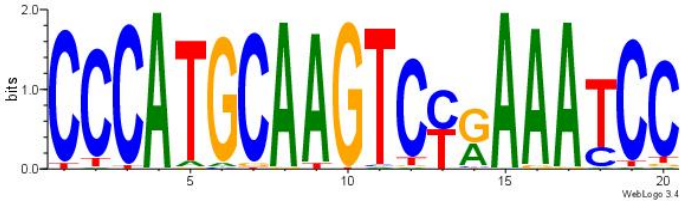

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

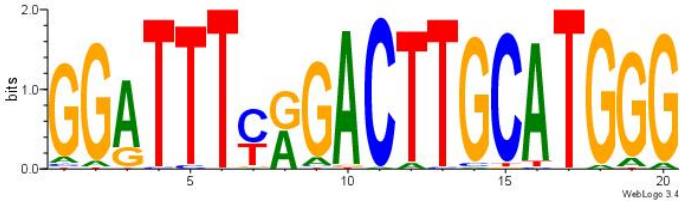

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.101091

Alignment:

```
GACATGGAGTCAAAGG
-GTCTGGMGTCTTGG-
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

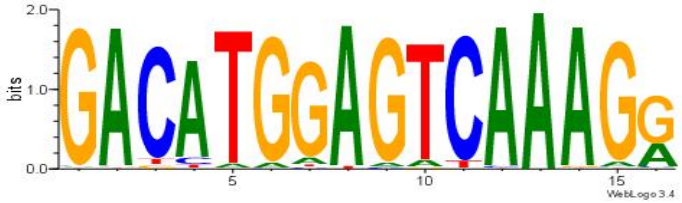

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

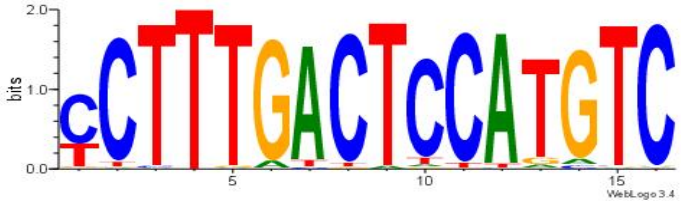

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.101763

Alignment:
CCGCTGCACTGTGGGAGCCC
-----GTCTGGMGTCTTGG-

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

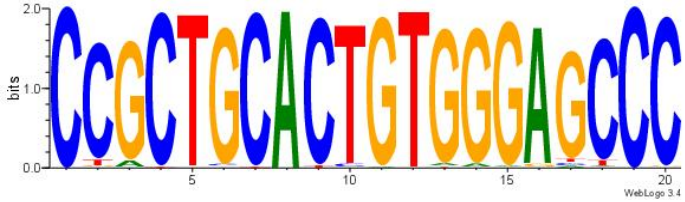

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

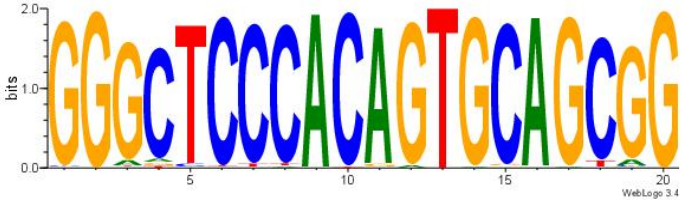

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.101815

Alignment:
AGTGACCCGATTTTCCAGGT
CCAAGACYCCAGAC------

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

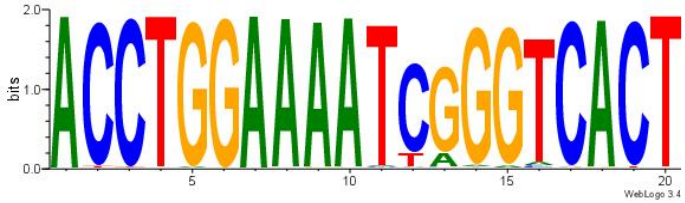

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

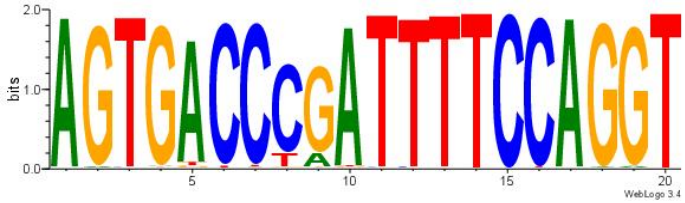

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.102164

Alignment:

```
TACCTGAGACTGGGTAATTT
GTCTGGMGTCTTGG------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

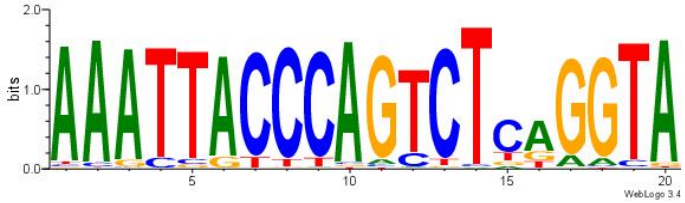

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

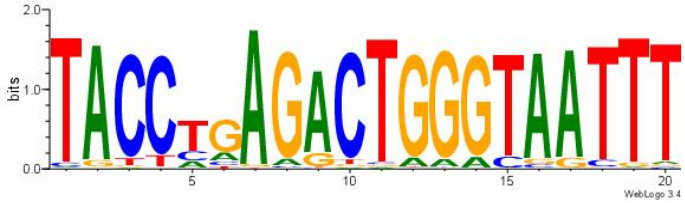

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.10293

Alignment:

```
AATGAGTTAAGACTTTG
GTCTGGMGTCTTGG---
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

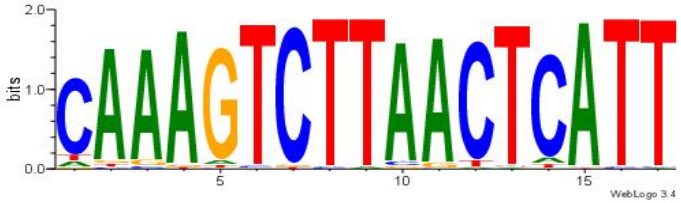

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5

Number of overlap: 14
Similarity score: 0.102935

Alignment:
ATCTGACAGGAGGYRGAGCT
--GTCTGGMGTCTTGG----

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

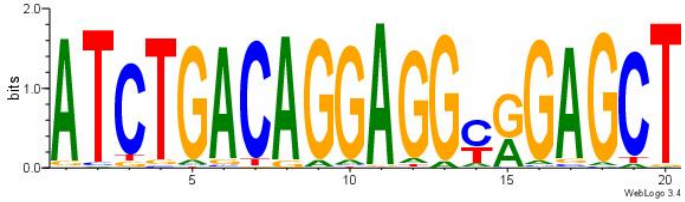

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

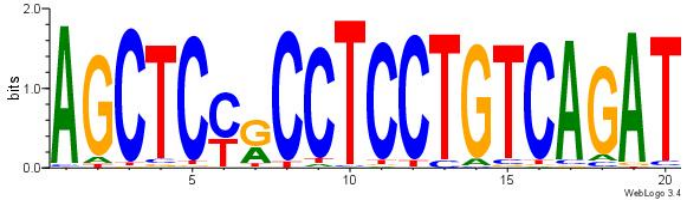

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.103246

Alignment:
MGTCTMKCTCTGTKGCCCAG
-GTCTGGMGTCTTGG-----

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

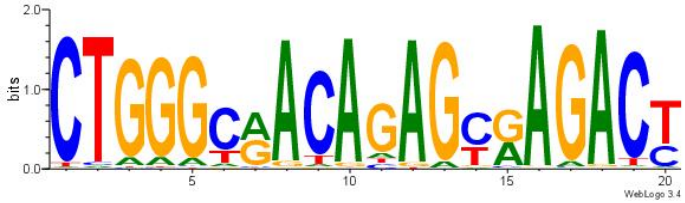

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

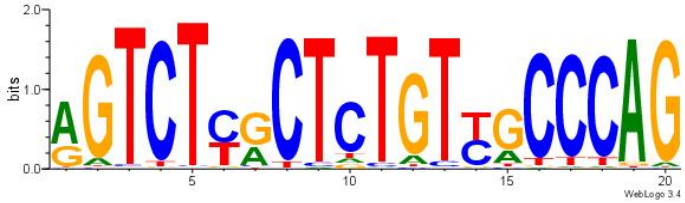

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.1034

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
----GTCTGGMGTCTTGG--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

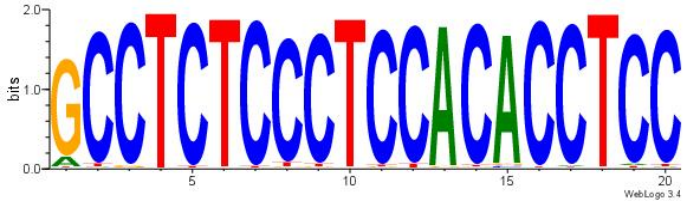

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

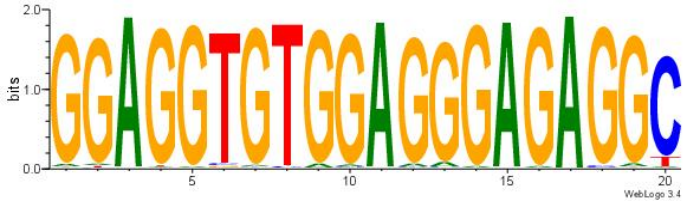

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.105155

Alignment:

```
CACTTTCCAGACTGGGCA
--GTCTGGMGTCTTGG--
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

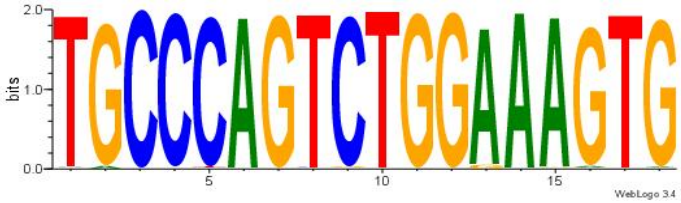

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

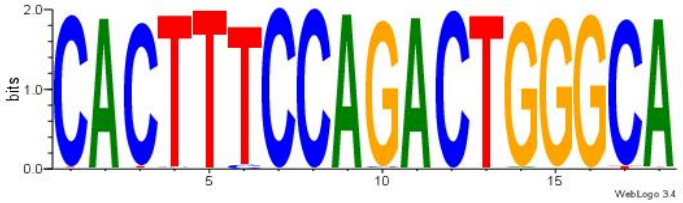

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.105726

Alignment:
ACCGAGMKMGCAGCTTCGGG
-----CCAAGACYCCAGAC-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

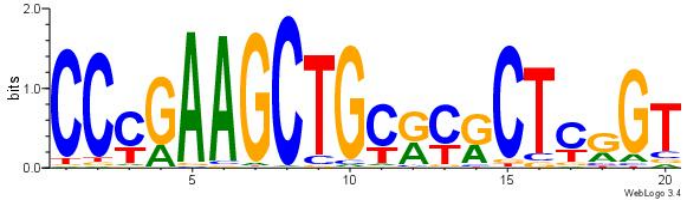

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

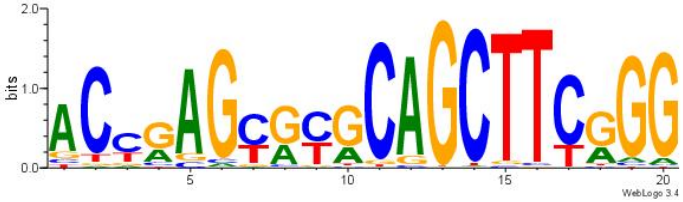

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.106614

Alignment:
CTTGCCCAAGGTCACACAGC
-CCAAGACYCCAGAC-----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

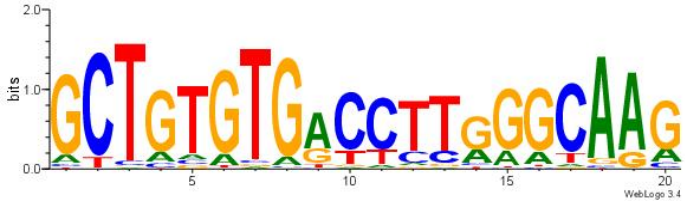

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

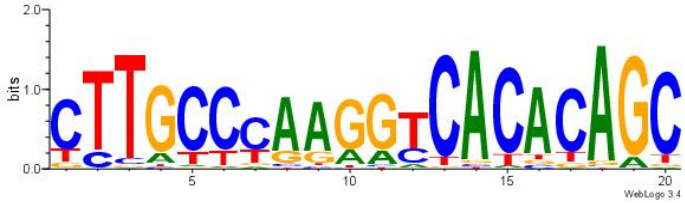

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.106641

Alignment:

```
CCCAAATCCTATAAAA
CCAAGACYCCAGAC--
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

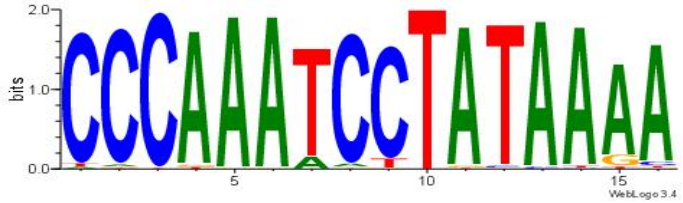

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

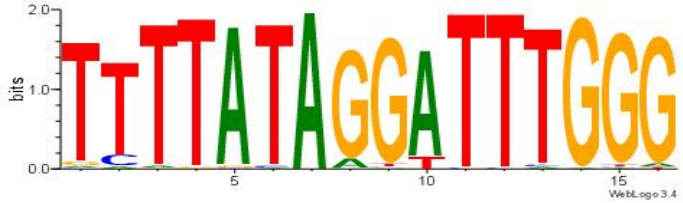

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.106941

Alignment:

```
CCACCACAGCTCAAGGAGGC
---CCAAGACYCCAGAC---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

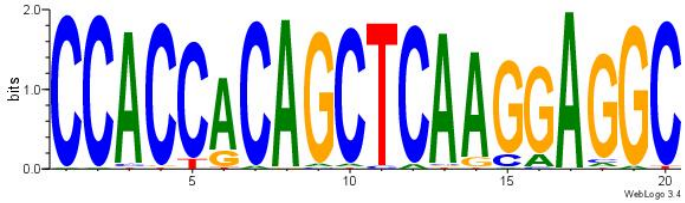

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

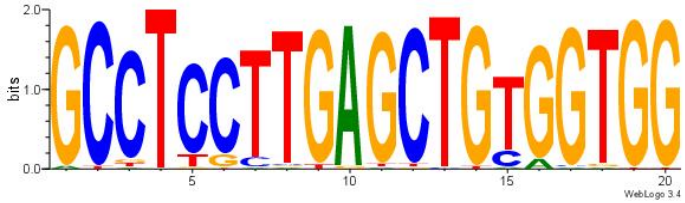

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.107348

Alignment:
CGCACTCCTCAGCC
CCAAGACYCCAGAC

Original motif Consensus sequence: CGCACTCCTCAGCC

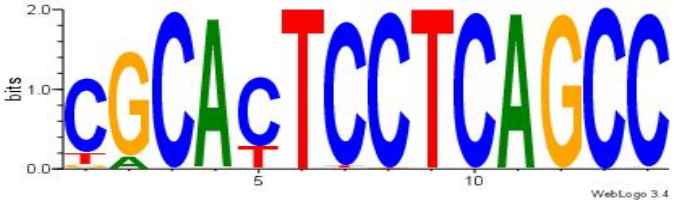

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

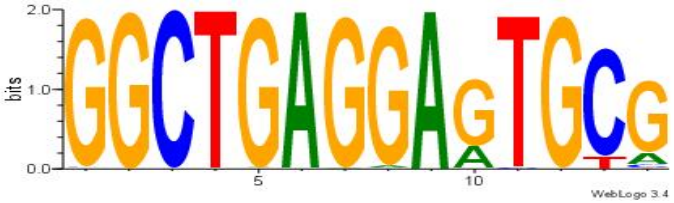

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.108282

Alignment:
AAGTCCAAGATCAAGGTGYY
----CCAAGACYCCAGAC--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

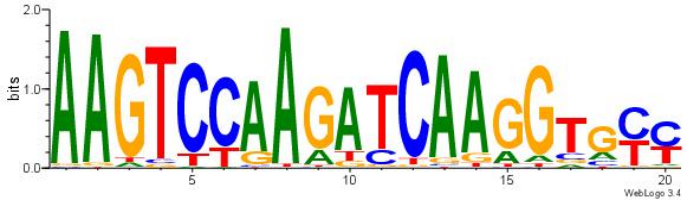

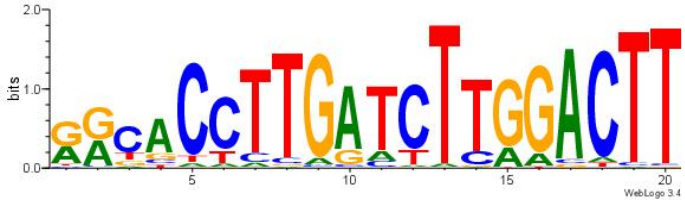

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.108499

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
---GTCTGGMGTCTTGG---
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

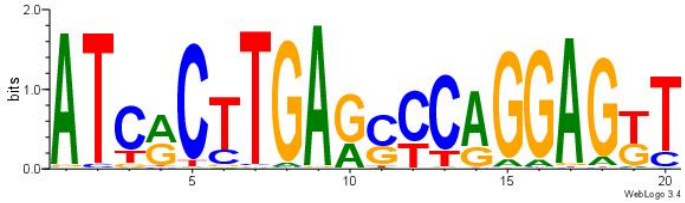

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

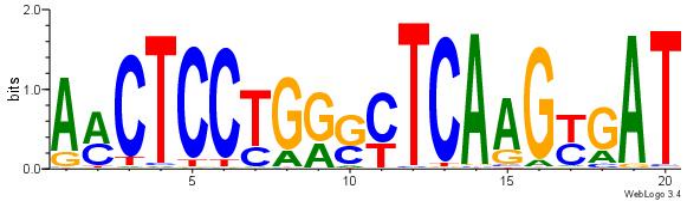

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.108593

Alignment:

```
GCACATGTAYCCYAGAACTT
---CCAAGACYCCAGAC---
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

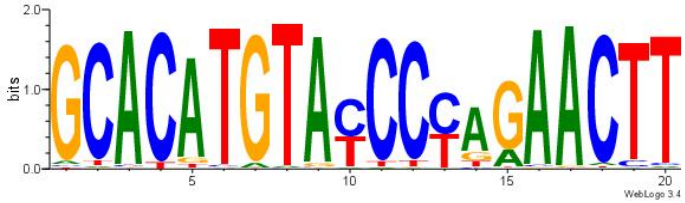

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

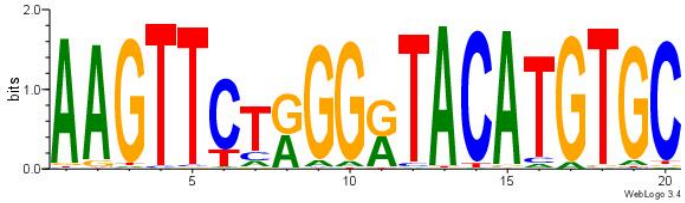

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.109021

Alignment:
CTCCTGACCTCGTGATC
-GTCTGGMGTCTTGG--

Original motif Consensus sequence: GATCACGAGGTCAGGAG

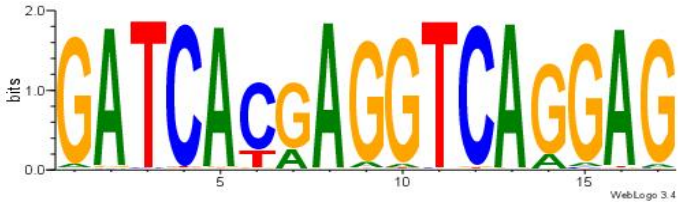

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

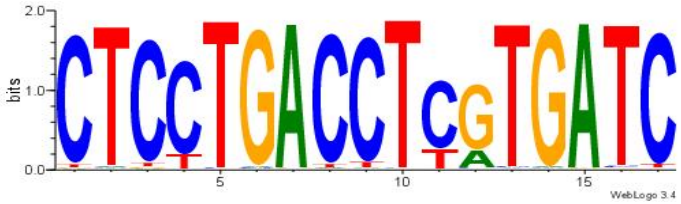

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.109166

Alignment:
AATTAAAAGACACAGACTG
---CCAAGACYCCAGAC--

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

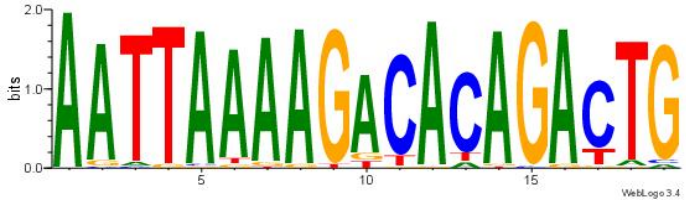

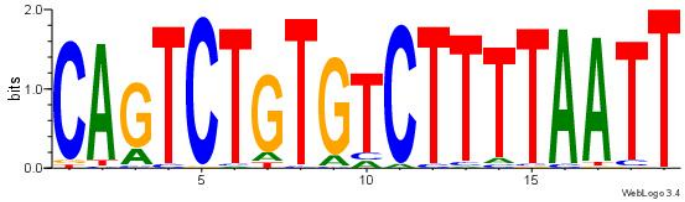

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.110356

Alignment:

```
TWTACCTATGTAACAAACCT
--CCAAGACYCCAGAC----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

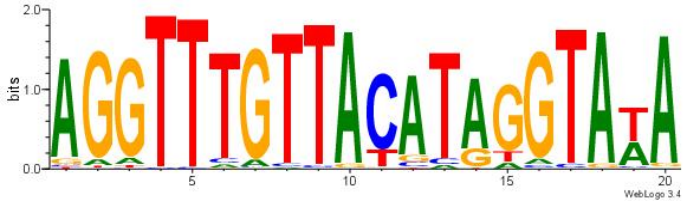

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

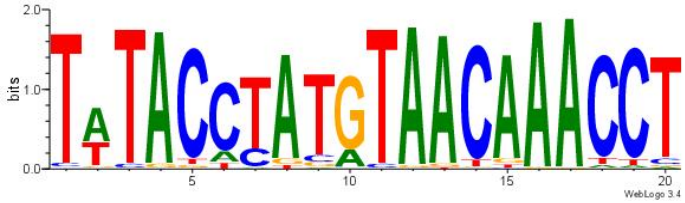

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.111255

Alignment:

```
TYTGTCMTTTTGTGACTGGC
------GTCTGGMGTCTTGG
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

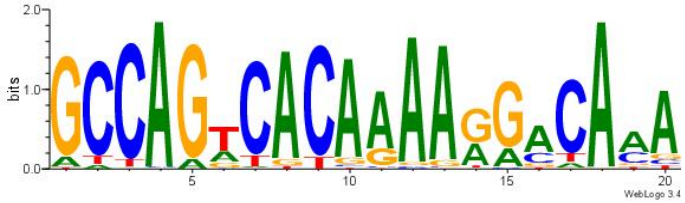

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

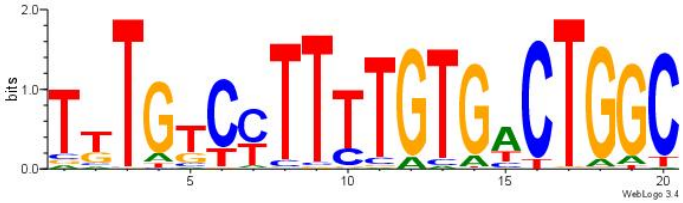

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.111708

Alignment:
CACCAGGAGATTATATCCCR
--CCAAGACYCCAGAC----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

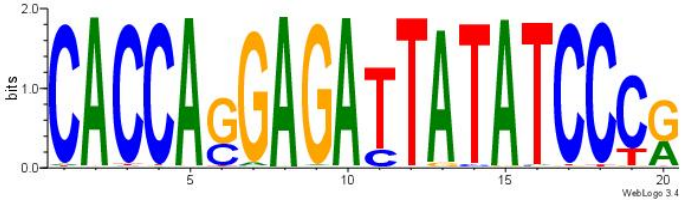

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

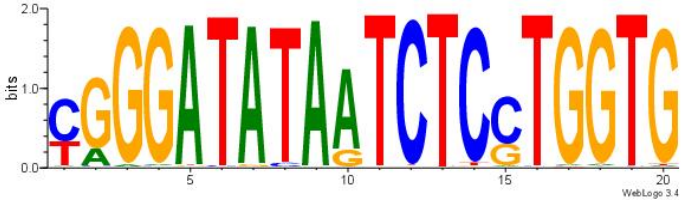

Dataset #: 1
Motif ID: 249
Motif name: Motif 249
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.112094

Alignment:
TGTGAAGAGACCACCAA
--CCAAGACYCCAGAC-

Original motif Consensus sequence: TGTGAAGAGACCACCAA

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

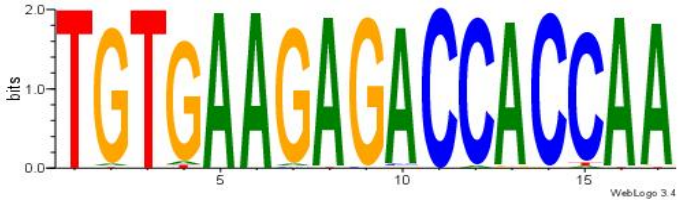

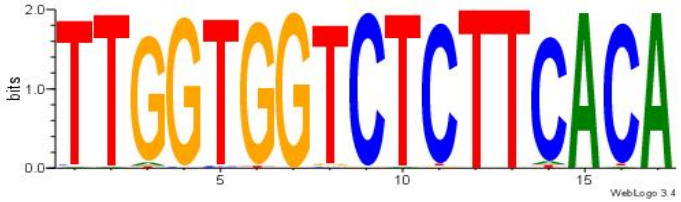

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.11212

Alignment:

```
CCCAAATCTCATSTTGAAT
-CCAAGACYCCAGAC----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

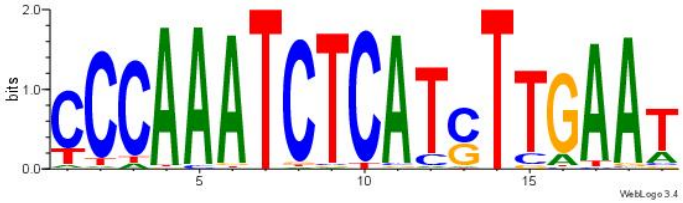

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

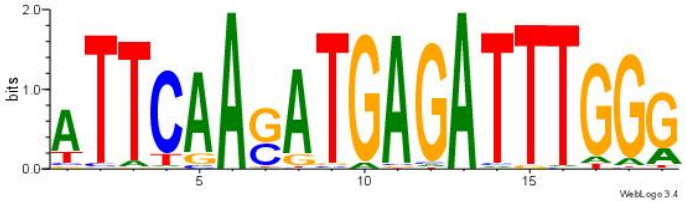

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.112694

Alignment:

```
GTAGACKGGAGCTGTTCCT
---GTCTGGMGTCTTGG--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

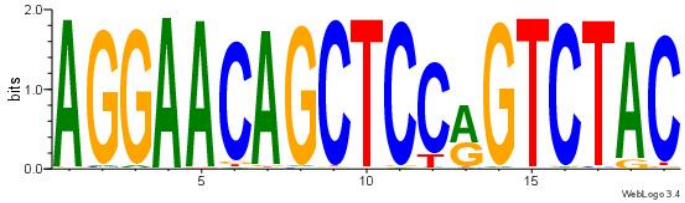

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

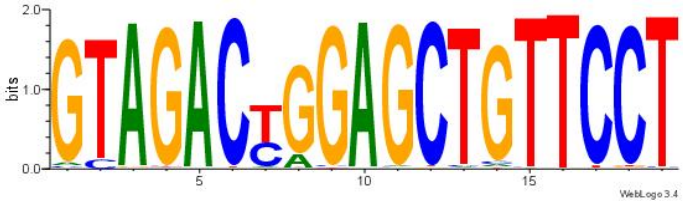

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.112696

Alignment:
AGCCCCGGTTCCCGCYCGC
--CCAAGACYCCAGAC---

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

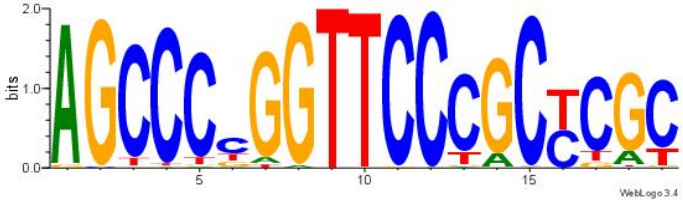

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

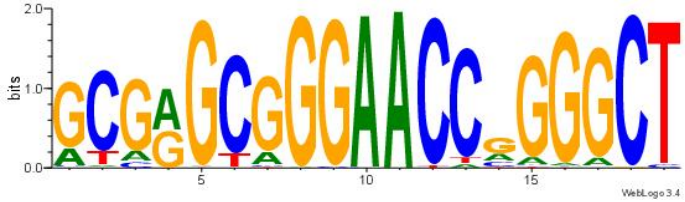

Dataset #: 1
Motif ID: 183
Motif name: Motif 183
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.112921

Alignment:
GGCCMGCAGGGCKGGC
-GTCTGGMGTCTTGG-

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

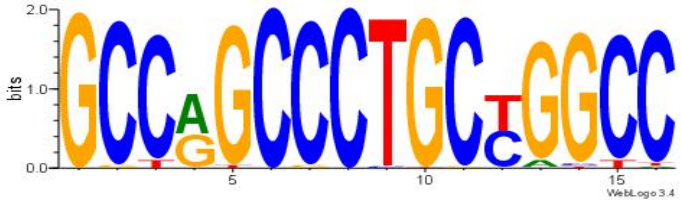

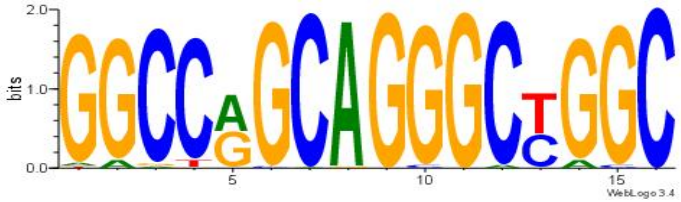

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.113792

Alignment:
AGGTCCTTCAGGAGGTATTC
GTCTGGMGTCTTGG------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

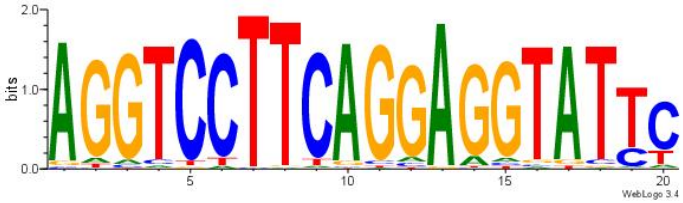

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

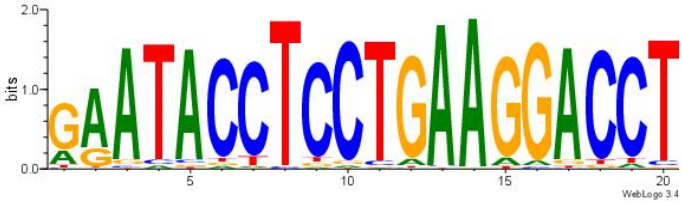

Dataset #: 1

Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.113993

Alignment:

```
GCTTAGCACCYGGGCCAGC
-CCAAGACYCCAGAC----
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

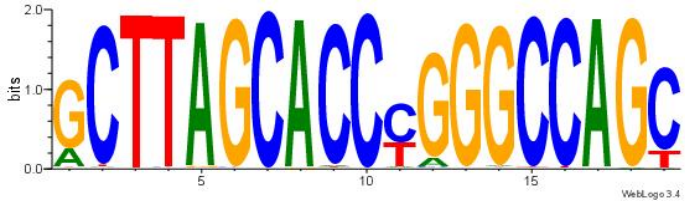

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

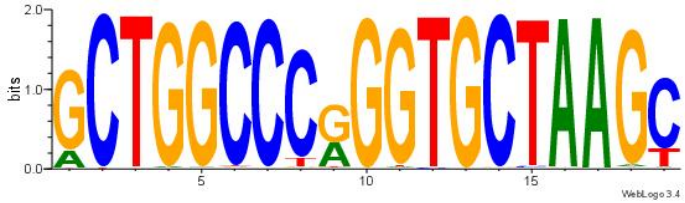

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.114232

Alignment:
AACAACASACACTGGGGCCT
-CCAAGACYCCAGAC-----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

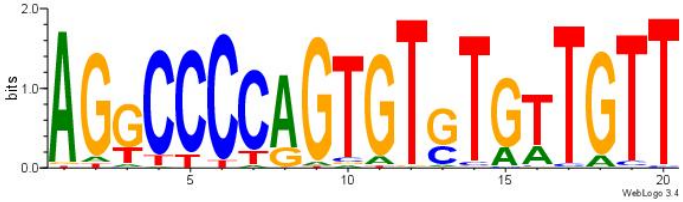

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

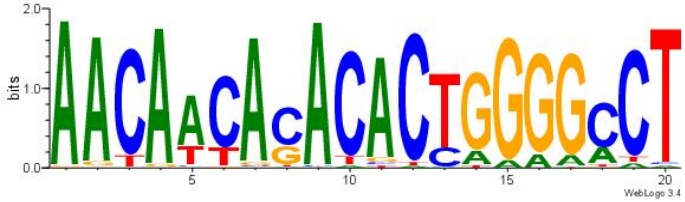

Dataset #: 1
Motif ID: 214
Motif name: Motif 214
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.114871

Alignment:
CTCAGGAATGGAAAACC
-CCAAGACYCCAGAC--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

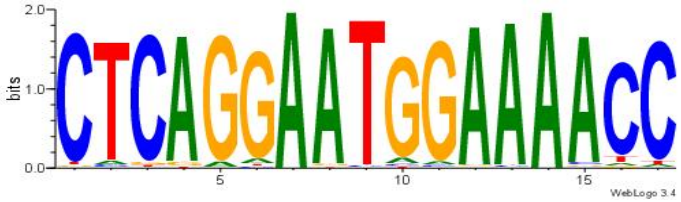

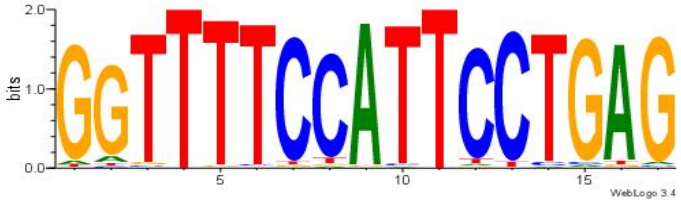

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.115202

Alignment:

```
ATGGCCTATGACYGSTTTG
-----GTCTGGMGTCTTGG
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

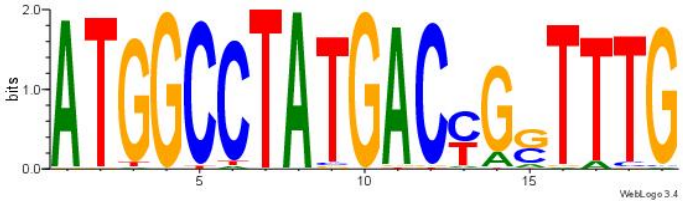

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

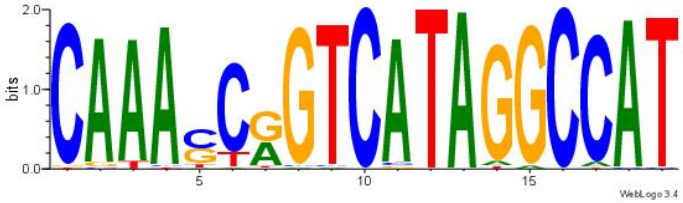

Dataset #: 1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.11526

Alignment:

```
CTTGGGTGGTCGATGGGAC
---GTCTGGMGTCTTGG--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

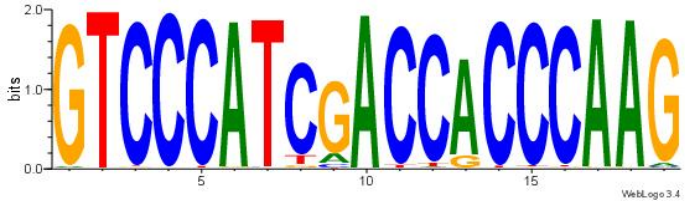

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

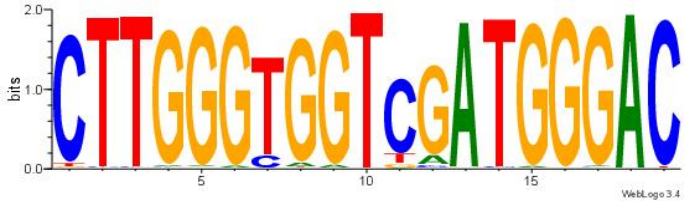

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.115345

Alignment:
CAGGTGGTKTTTGGTTACAT
-GTCTGGMGTCTTGG-----

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

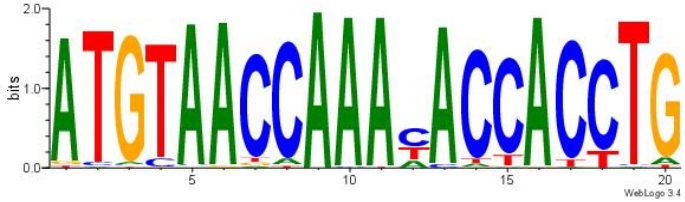

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

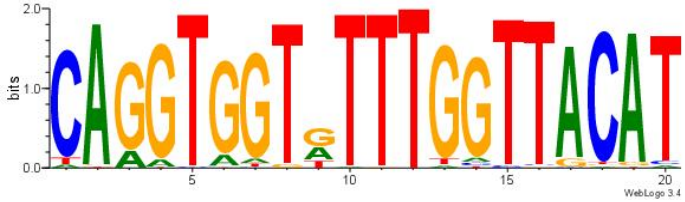

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.11668

Alignment:
ATTGATMKCCAGGGTTGATT
----GTCTGGMGTCTTGG--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

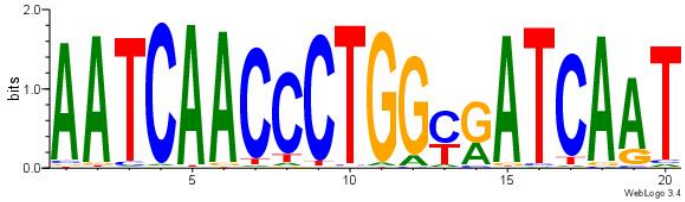

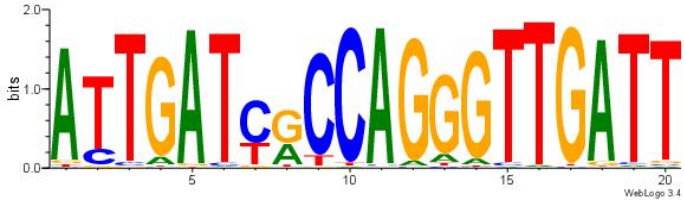

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.116777

Alignment:

```
GACAGGAGATTAACACTGAG
GTCTGGMGTCTTGG------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

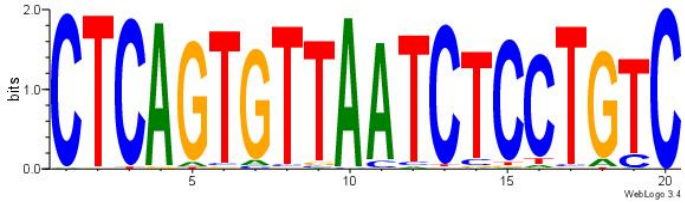

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

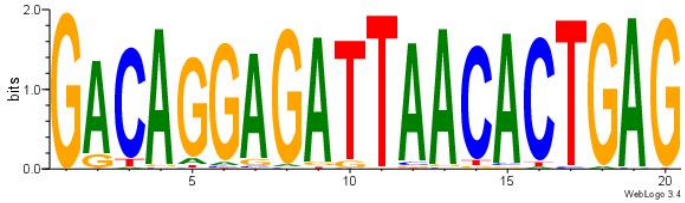

Dataset #: 1 Motif ID: 302 Motif name: Motif 302

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

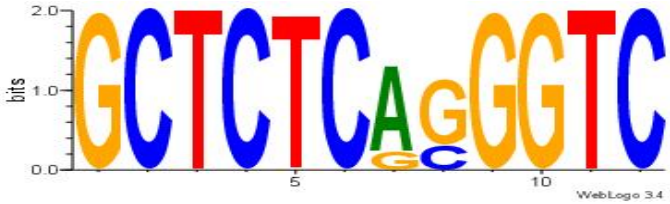

Best Matches for Motif ID 302 (Highest to Lowest)

Dataset #:	1
Motif ID:	340
Motif name:	Motif 340
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0268873

Alignment:

```
GACCCAGAGAGC
GACCCTGAGAGC
```

Original motif Consensus sequence: GACCCAGAGAGC

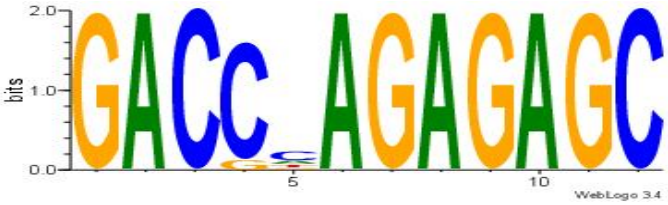

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

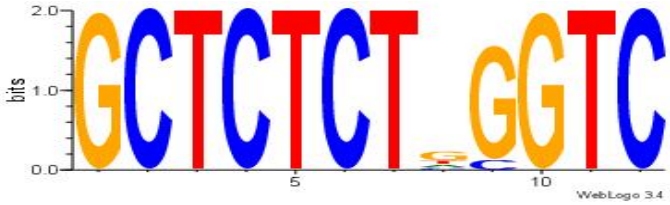

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0423209

Alignment:

```
GGACCTTCAGAGC
-GACCCTGAGAGC
```

Original motif Consensus sequence: GCTCTGAAGGTCC

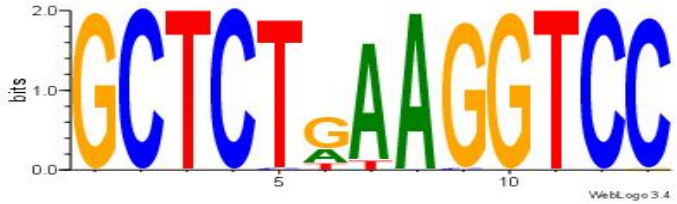

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

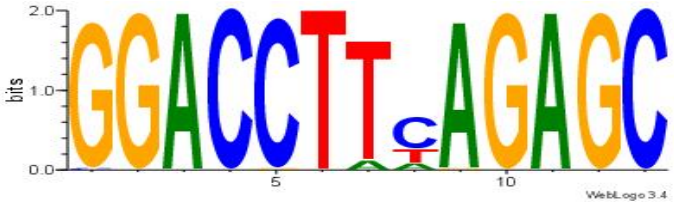

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.0548786

Alignment:
GCTCTCAGGTCCA
GCTCTCAGGGTC-

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

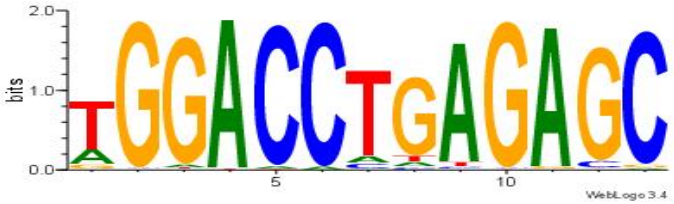

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0701639

Alignment:
MCCYGGCWSMGASGSTCCT
-----GCTCTCAGGGTC--

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

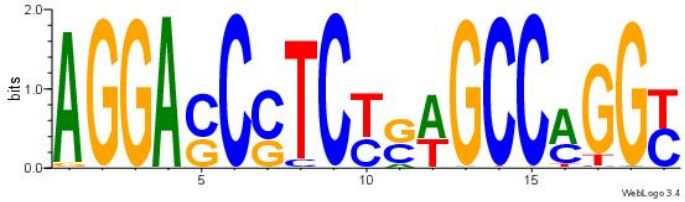

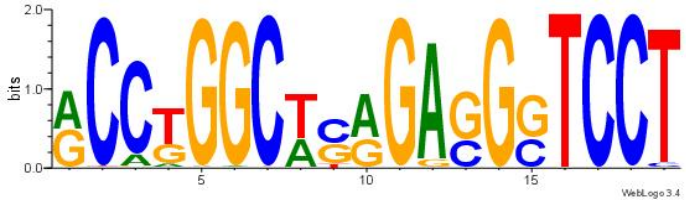

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0731393

Alignment:

```
TGHCCTGCKCCCACTGTCT
------GCTCTCAGGGTC-
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

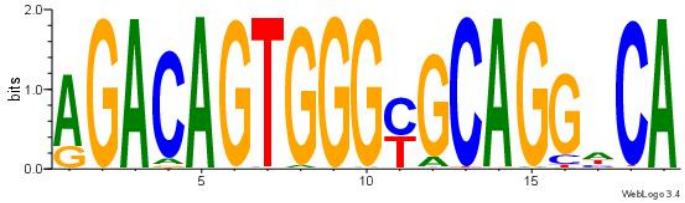

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

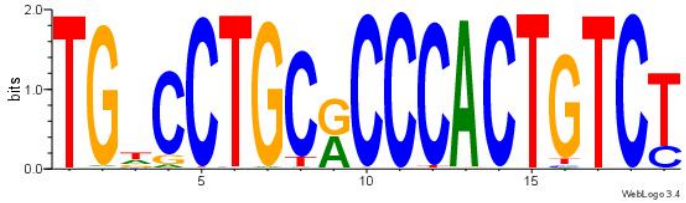

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0770228

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-GACCCTGAGAGC-------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

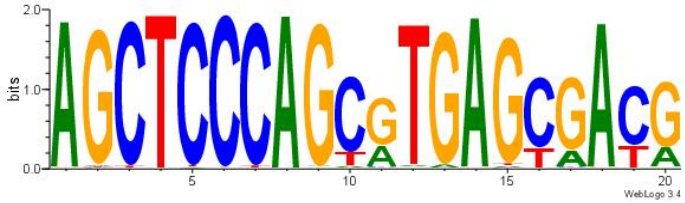

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

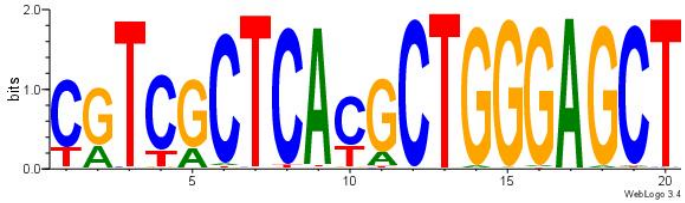

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.0814789

Alignment:
CCGCTGCACTGTGGGAGCCC
------GACCCTGAGAGC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

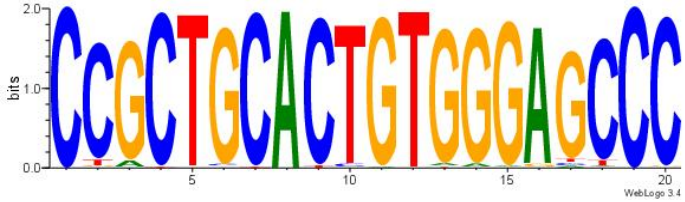

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

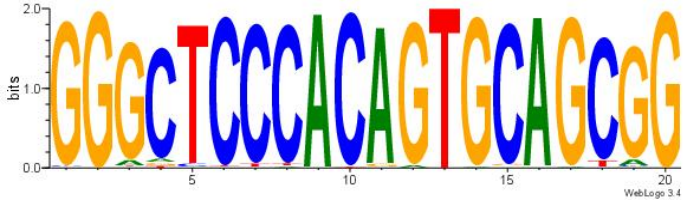

Dataset #: 1
Motif ID: 283
Motif name: Motif 283
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0820365

Alignment:
GGATGGTGAGGGC
GACCCTGAGAGC-

Original motif Consensus sequence: GCCCTCACCATCC

Reverse complement motif Consensus sequence: GGATGGTGAGGG

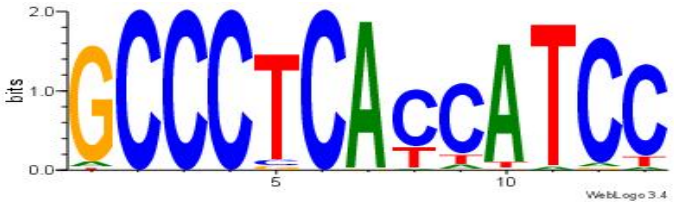

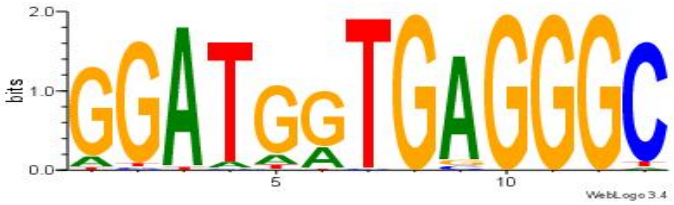

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0837988

Alignment:

```
CTCCTGACCTCGTGATC
GACCCTGAGAGC-----
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

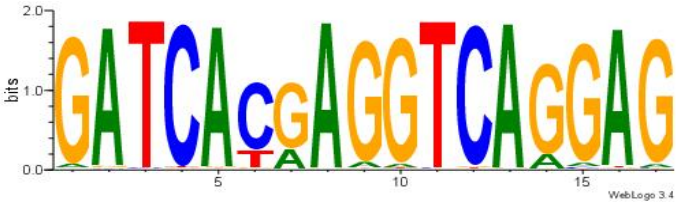

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

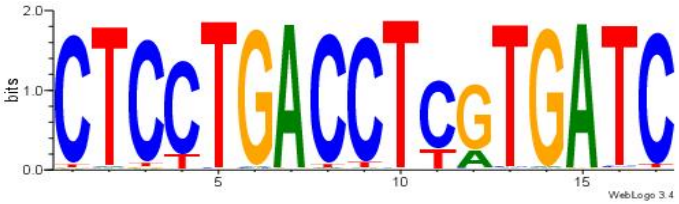

Dataset #: 1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0863799

Alignment:

```
AGCTAGAYACAGAGTGC
-----GACCCTGAGAGC
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

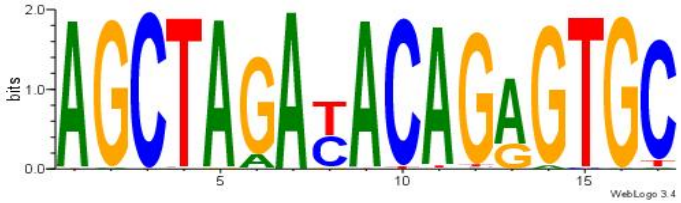

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

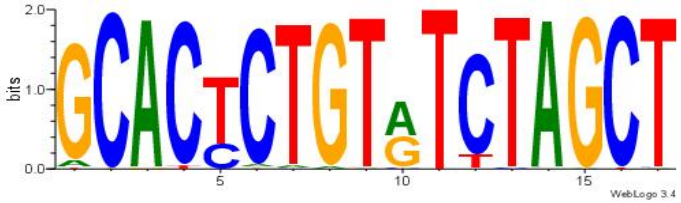

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.0906371

Alignment:
TAMGACCTCAGGTCCTCAG
---GCTCTCAGGGTC----

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

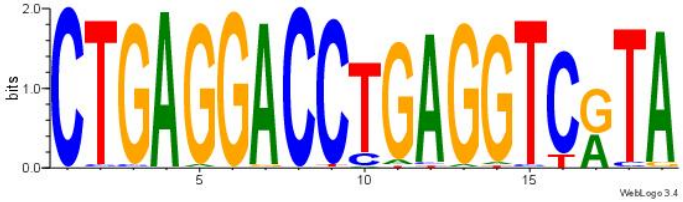

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

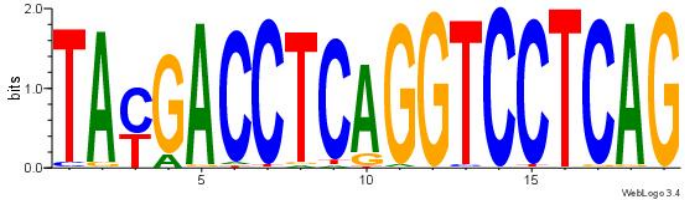

Dataset #: 1
Motif ID: 183
Motif name: Motif 183
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0935604

Alignment:
GGCCMGCAGGGCKGGC
----GACCCTGAGAGC

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

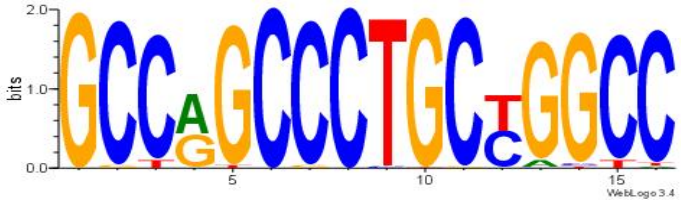

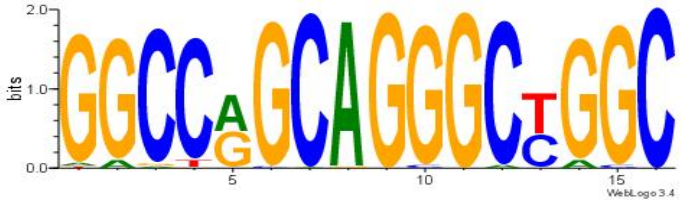

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0938172

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-GCTCTCAGGGTC-------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

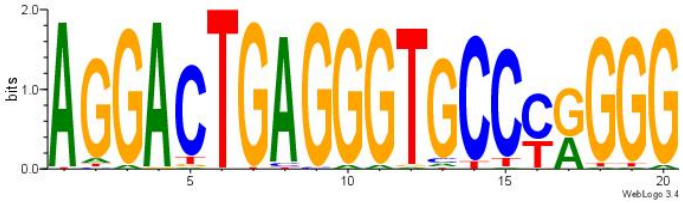

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

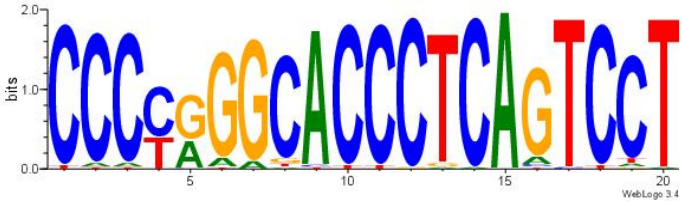

Dataset #: 1

Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0940311

Alignment:

```
GAGACTCCGTGGGCGT
--GACCCTGAGAGC--
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

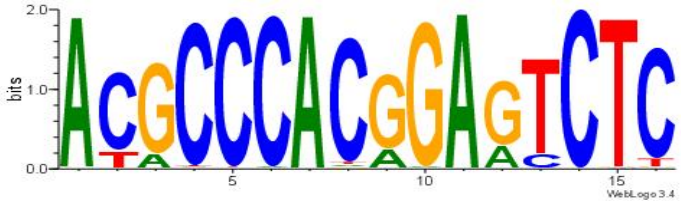

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

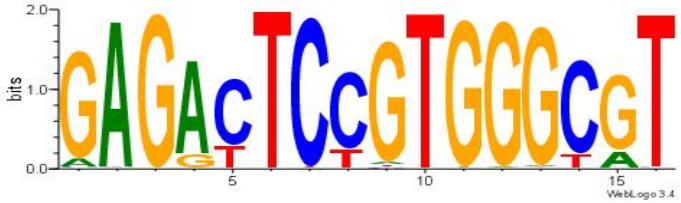

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.095476

Alignment:
MGGGATATAATCTCCTGGTG
--------GCTCTCAGGGTC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

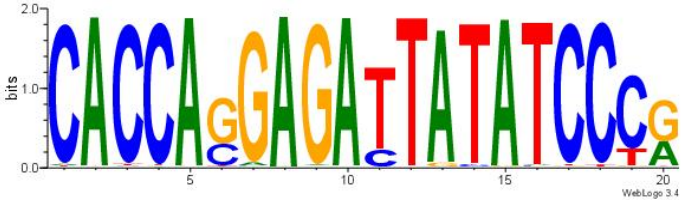

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

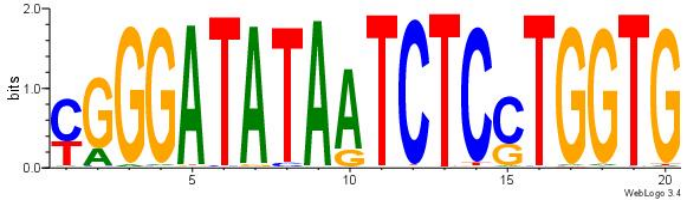

Dataset #: 1
Motif ID: 182
Motif name: Motif 182
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0958266

Alignment:
TGGGTTCYTGGTC
-GCTCTCAGGGTC

Original motif Consensus sequence: GACCAMGAACCCA

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

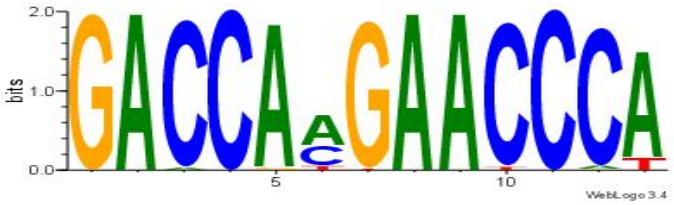

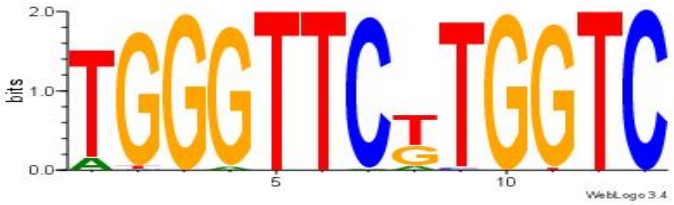

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0963046

Alignment:

```
TCTCTGAGCCTCAGTT
----GCTCTCAGGGTC
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

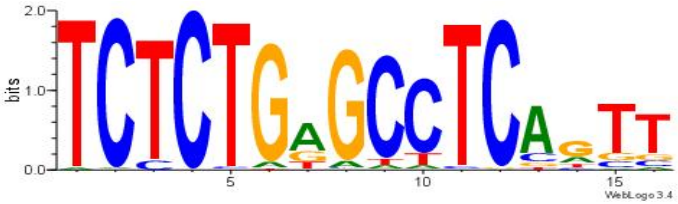

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

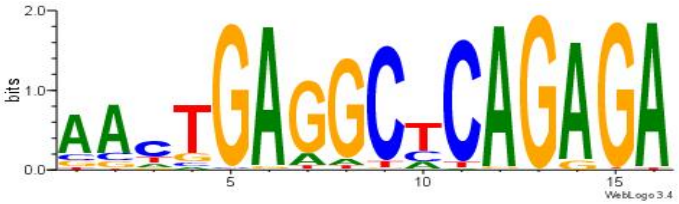

Dataset #: 1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0990705

Alignment:

```
GCTCTCAATTGGTCATT
GCTCTCAGGGTC-----
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

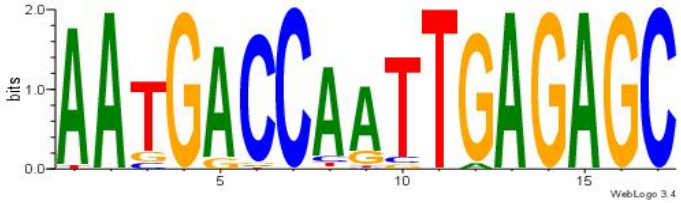

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

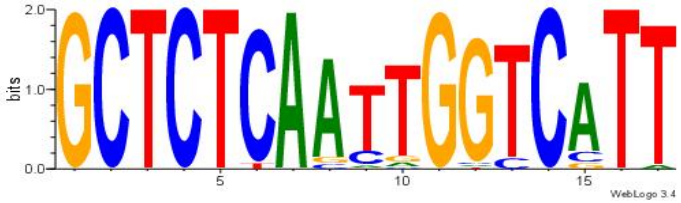

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12

Similarity score: 0.0999236

Alignment:
AGATGCCAGCCAGAGCTCT
----GACCCTGAGAGC---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

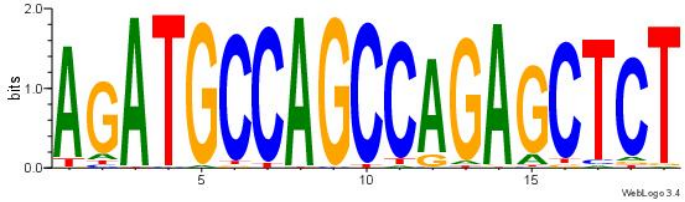

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

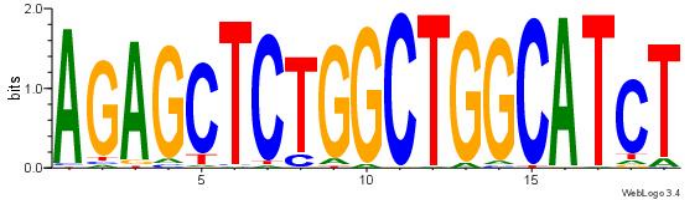

Dataset #: 1
Motif ID: 206
Motif name: Motif 206
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.10084

Alignment:
GGRCKCACWGGAGC
--GCTCTCAGGGTC

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

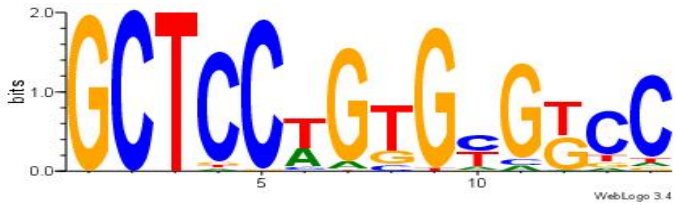

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.101239

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-----GCTCTCAGGGTC---
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

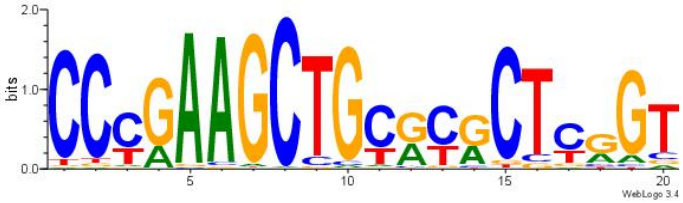

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

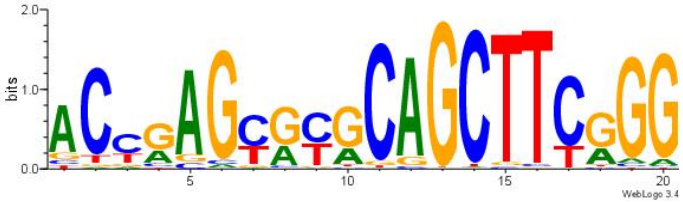

Dataset #:	1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.101399

Alignment:

```
GACCTGCAGCCCGCCATG
------GACCCTGAGAGC
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

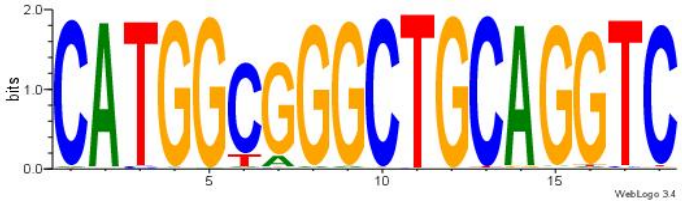

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

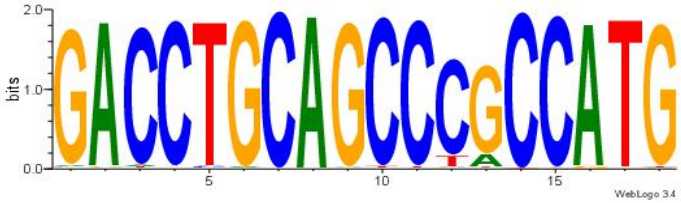

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.101836

Alignment:
GCGGCTGGCCGGGCG
---GCTCTCAGGGTC

Original motif Consensus sequence: CGCCCGGCCAGCCGC

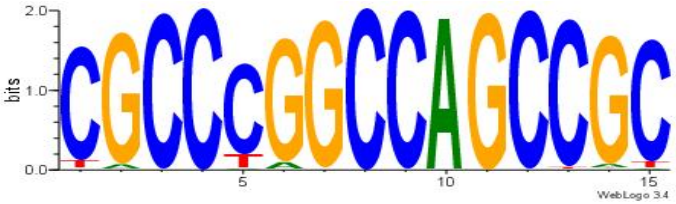

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

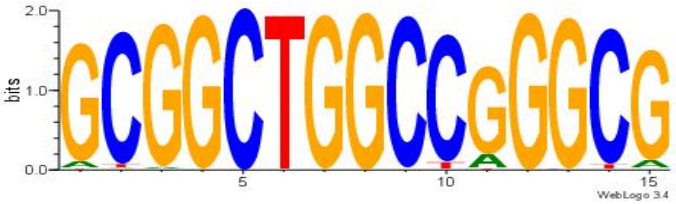

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.101866

Alignment:
HGCTCCTGTGSKCCC
--GCTCTCAGGGTC-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

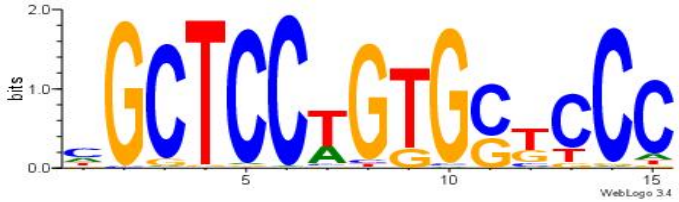

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.102189

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
----GACCCTGAGAGC----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

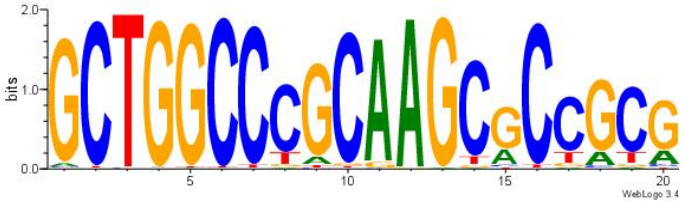

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

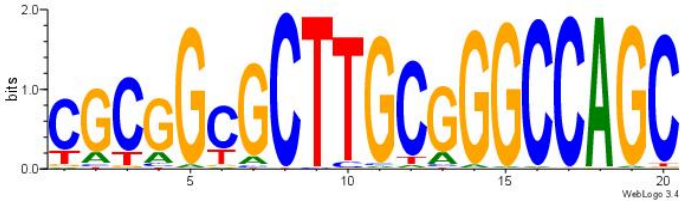

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.102313

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GACCCTGAGAGC--------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

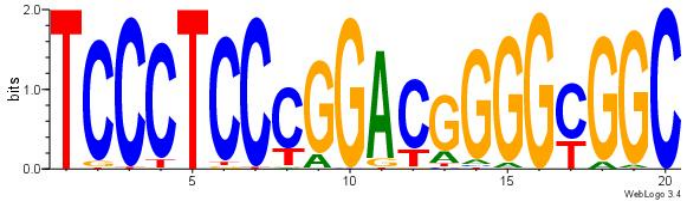

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

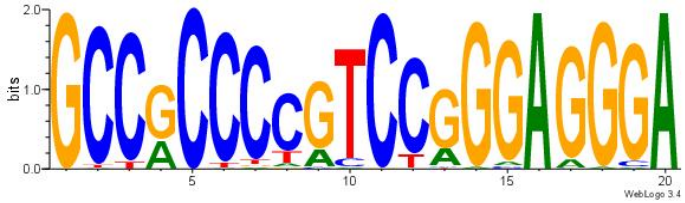

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.10325

Alignment:
TTMGTCCCAGAGGGGCACC
----GACCCTGAGAGC---

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

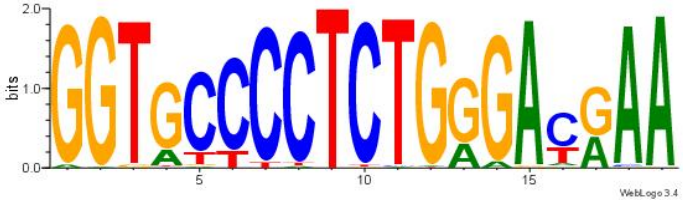

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

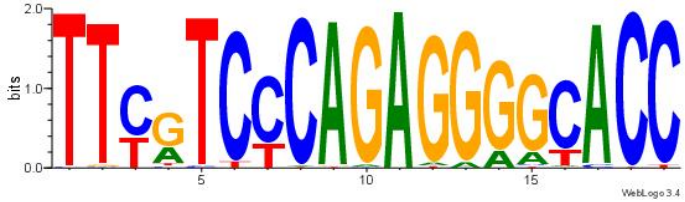

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.103487

Alignment:
AGAAATCGAGCRCAGCGCCG
-GACCCTGAGAGC-------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

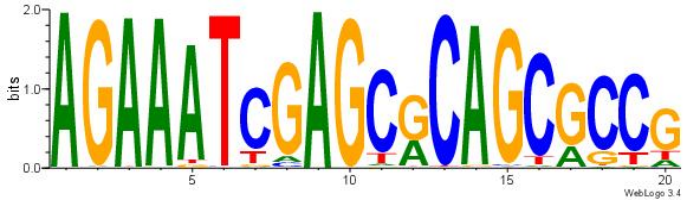

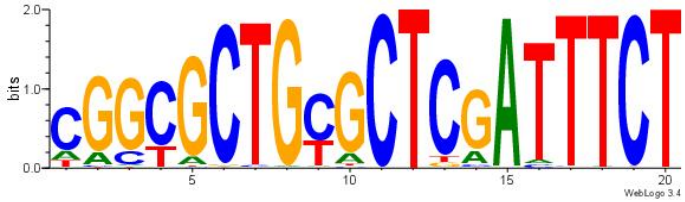

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.103642

Alignment:

```
TCACKMGGGAAGCGCAAG
-----GACCCTGAGAGC-
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

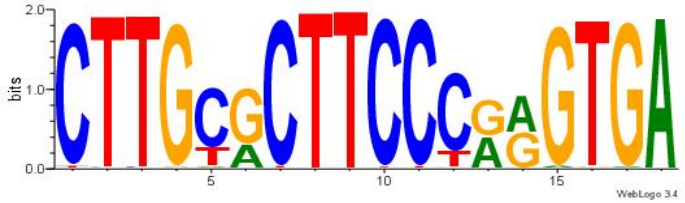

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

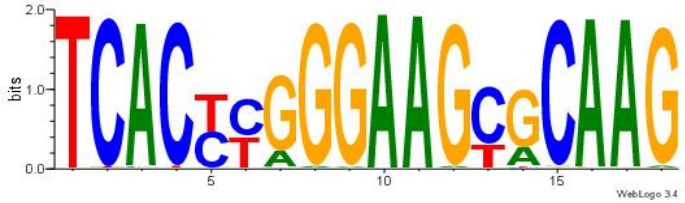

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.104003

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
------GCTCTCAGGGTC--
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

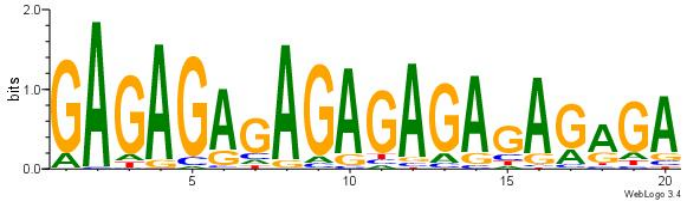

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

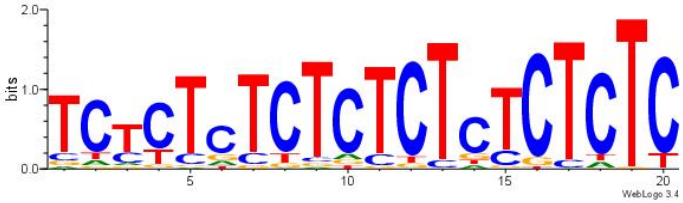

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.104055

Alignment:
GGGAGGTGTCTCCCAGTCAG
------GCTCTCAGGGTC--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

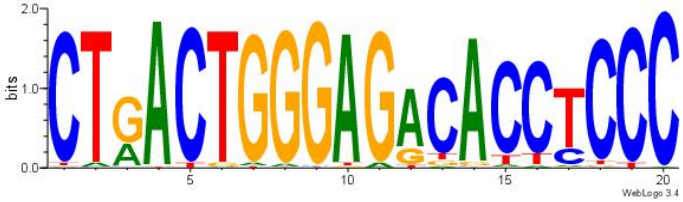

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

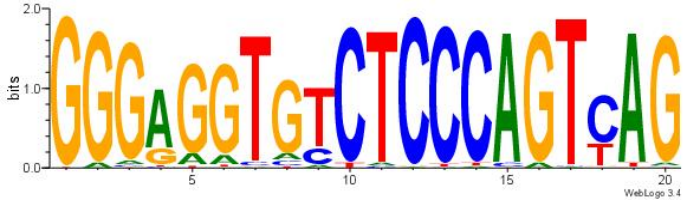

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 12
Similarity score: 0.10429

Alignment:
GCCTCCTTGAGCTGTGGTGG
GACCCTGAGAGC--------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

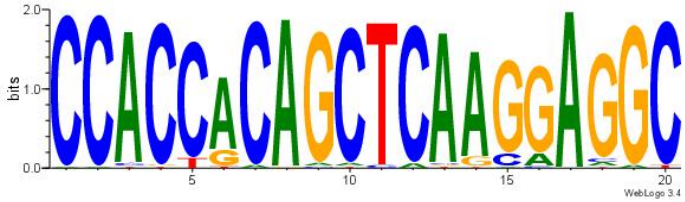

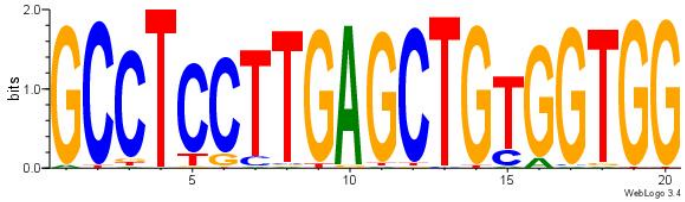

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.105133

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
--GCTCTCAGGGTC------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

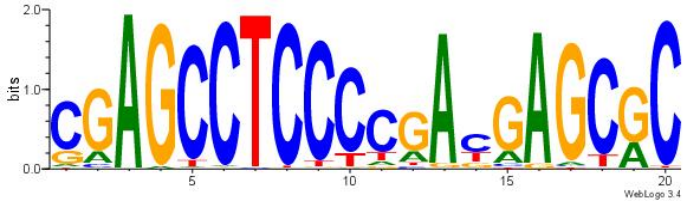

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

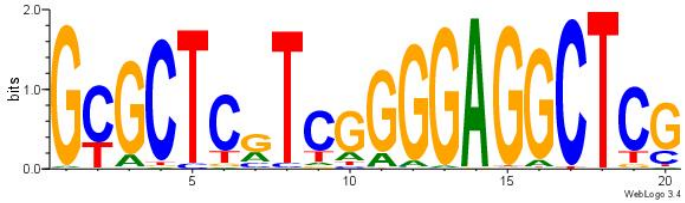

Dataset #:	1

Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.106161

Alignment:

```
CCGCACTCGGAGCRG
-GCTCTCAGGGTC--
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

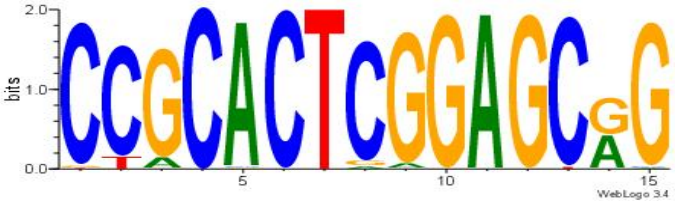

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

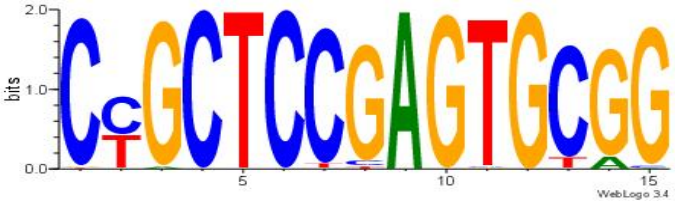

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.106312

Alignment:
GAGAACACATGGACA
-GCTCTCAGGGTC--

Original motif Consensus sequence: GAGAACACATGGACA

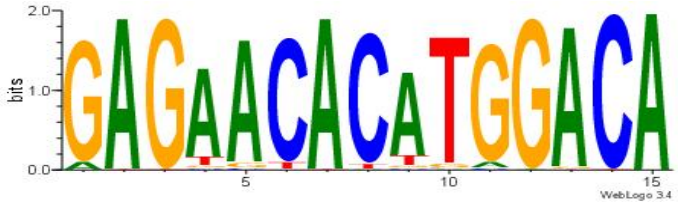

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

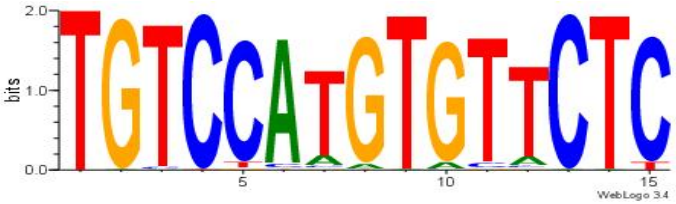

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.106598

Alignment:
AAAGTGCCGAGAKTGCAGC
----GACCCTGAGAGC---

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

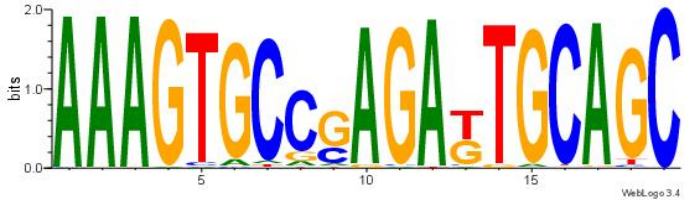

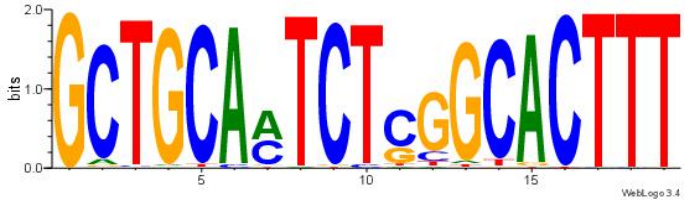

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.107513

Alignment:

```
AGCCYCTGGYAACCAYYAWT
-GACCCTGAGAGC-------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

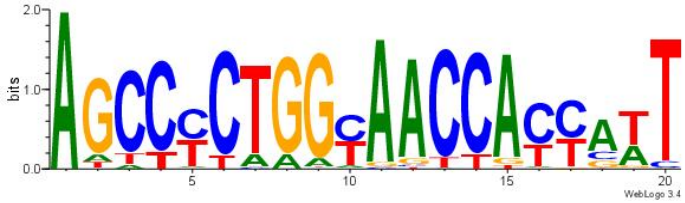

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

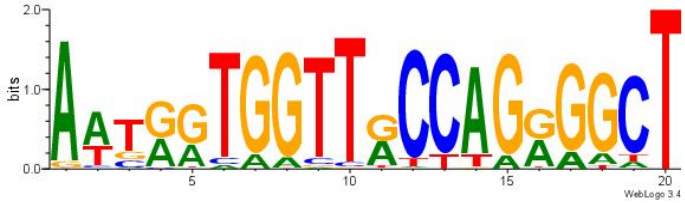

Dataset #:	1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.107692

Alignment:

```
GGGGGCTGACCCCCCCACC
-------GACCCTGAGAGC
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

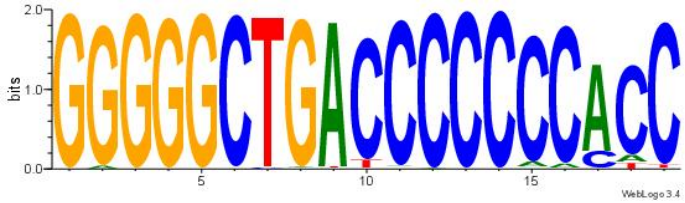

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

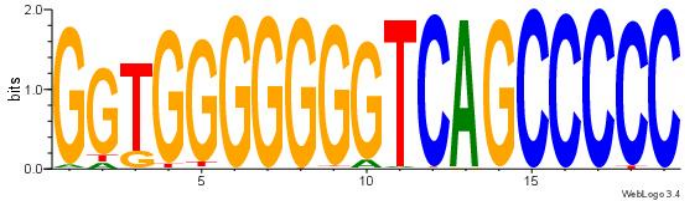

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.107756

Alignment:
ATCRCTTGAGSYCAGGAGKT
-------GACCCTGAGAGC-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

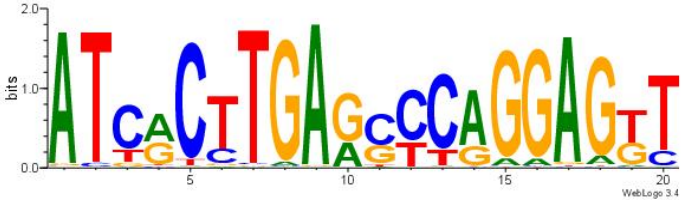

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

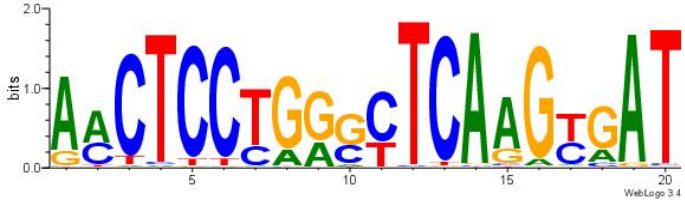

Dataset #: 1
Motif ID: 197
Motif name: Motif 197
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.107824

Alignment:
GCTGGCCGGGCG
GCTCTCAGGGTC

Original motif Consensus sequence: CGCCCGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

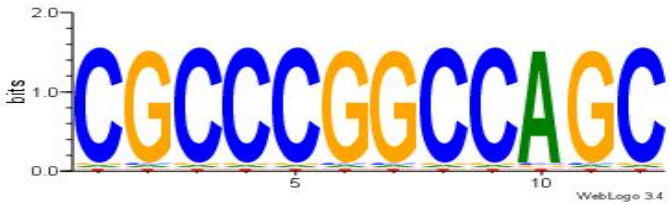

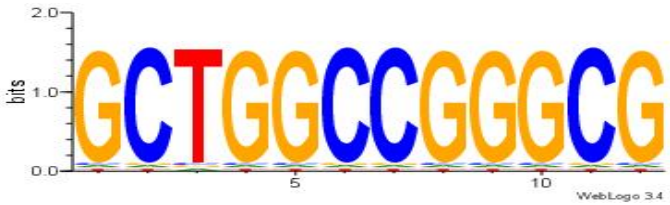

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.108182

Alignment:

```
GGMGCKGTGGCTC
-GCTCTCAGGGTC
```

Original motif Consensus sequence: GAGCCACYGCRCC

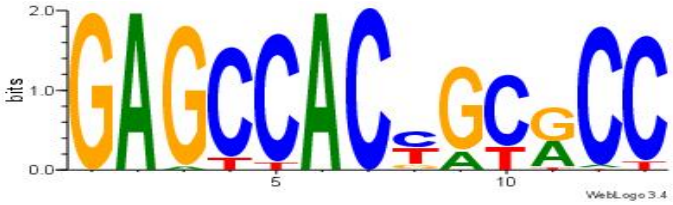

Reverse complement motif Consensus sequence: GGMGCKGTGGCTC

Dataset #:	1
Motif ID:	241

Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.108589

Alignment:

```
GCACTGAGTGAACGA
---GCTCTCAGGGTC
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

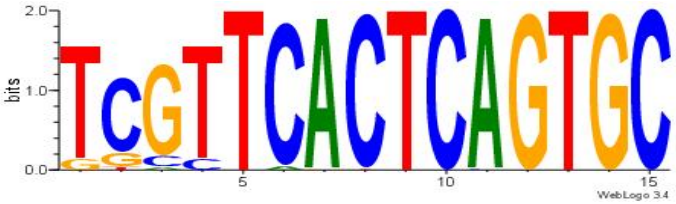

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.10873

Alignment:
GAGCTTTAAGATTT
--GCTCTCAGGGTC

Original motif Consensus sequence: AAATCTTAAAGCTC

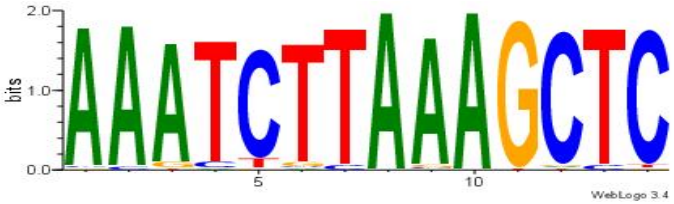

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

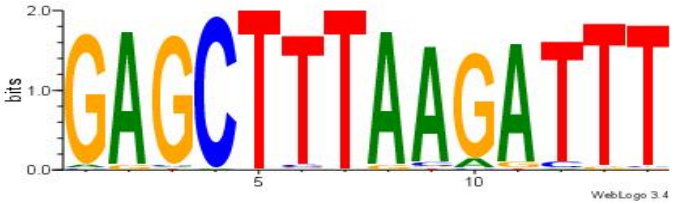

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.109102

Alignment:
CCTCCCAGCCGCCT
GCTCTCAGGGTC--

Original motif Consensus sequence: AGGCGGCTGGGAGG

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

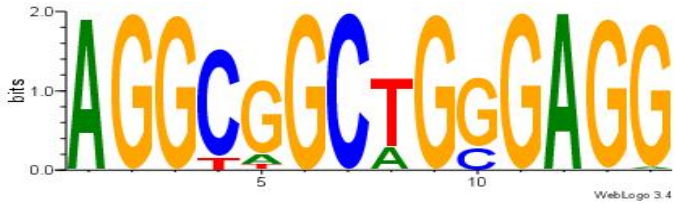

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.109495

Alignment:

```
CTTGGGTGGTCGATGGGAC
-------GCTCTCAGGGTC
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

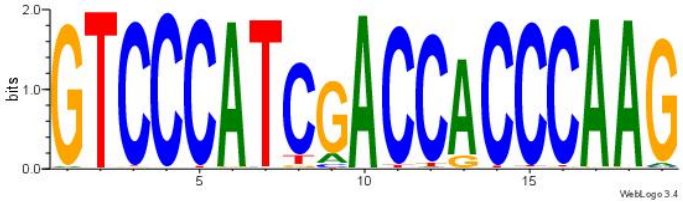

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

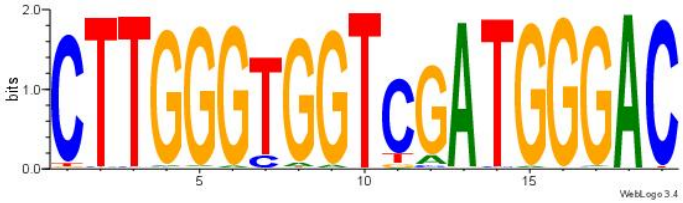

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.109719

Alignment:

```
ACAGGCTGTCCCAGGATTC
------GCTCTCAGGGTC-
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

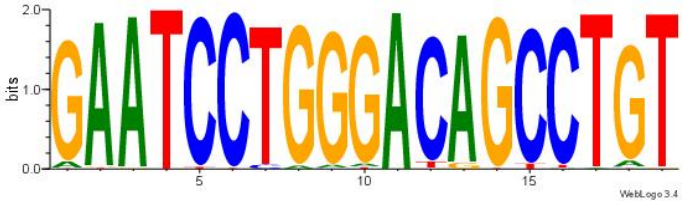

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

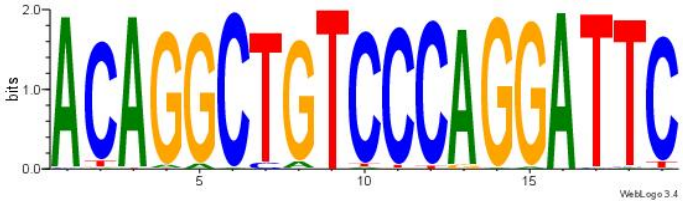

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12

Similarity score: 0.110122

Alignment:
TGTTATGCCTGAAAGT
GACCCTGAGAGC----

Original motif Consensus sequence: ACTTTCAGGCATAACA

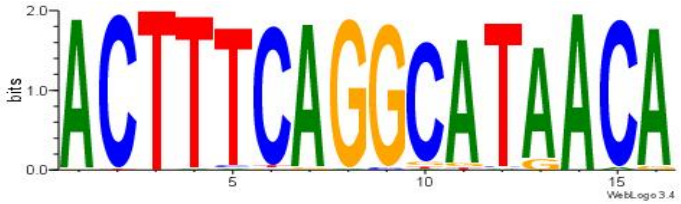

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

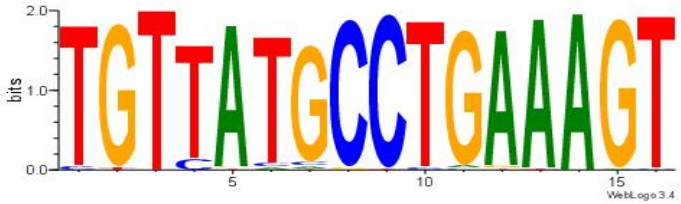

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.110288

Alignment:
AACAACASACACTGGGGCCT
-GACCCTGAGAGC-------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

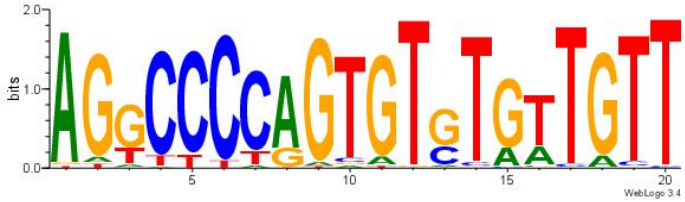

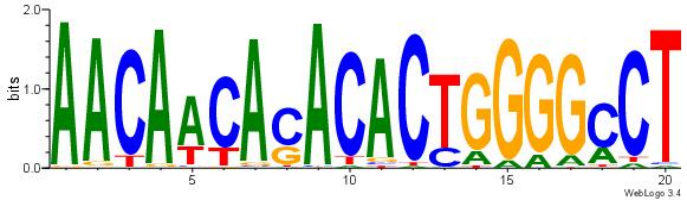

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.11106

Alignment:

```
GTTTAACCATTGAGGGCCAG
-----GACCCTGAGAGC---
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

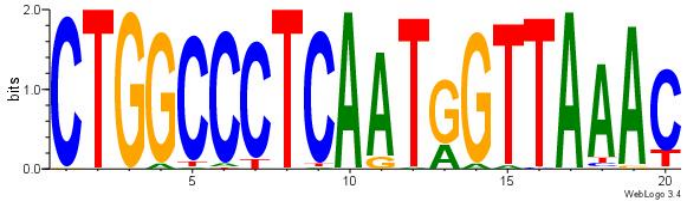

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

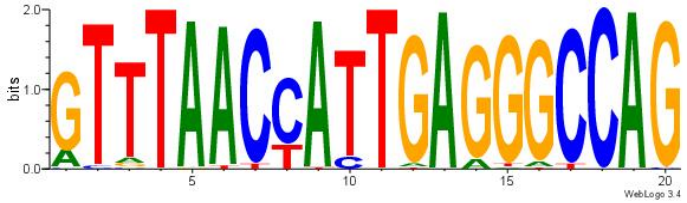

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.111834

Alignment:

```
CACCAGACTCAGGAGCCCAG
----GCTCTCAGGGTC----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

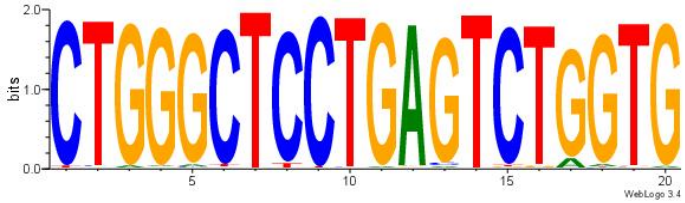

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

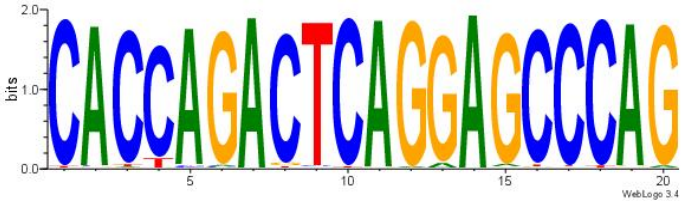

Dataset #: 1 Motif ID: 303 Motif name: Motif 303

Original motif Consensus sequence: AGTTCTTAAAGATGGT

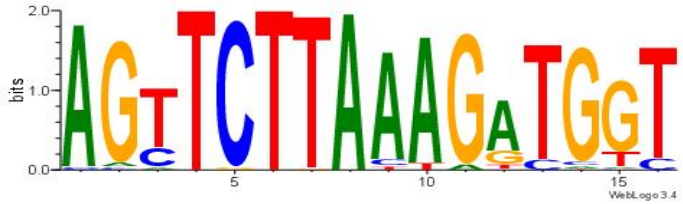

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

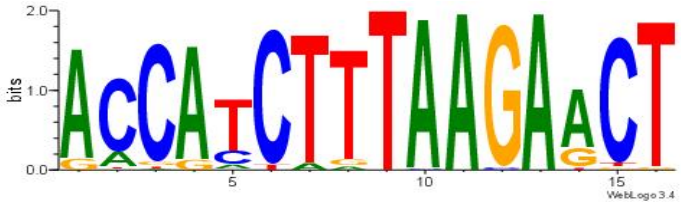

Best Matches for Motif ID 303 (Highest to Lowest)

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.0731282

Alignment:

```
GAATACCTCCTGAAGGACCT
----ACCATCTTTAAGAACT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

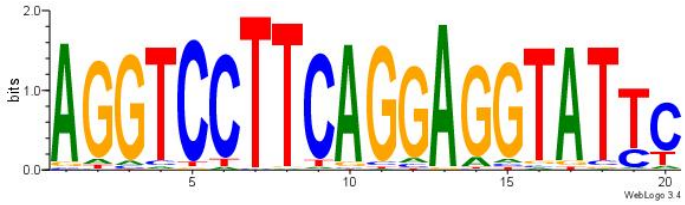

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

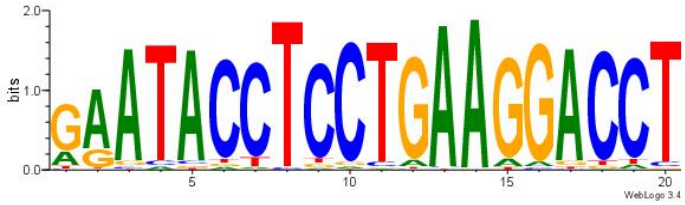

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0867922

Alignment:
ATCATTCTTATGCCTTTG
ACCATCTTTAAGAACT--

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

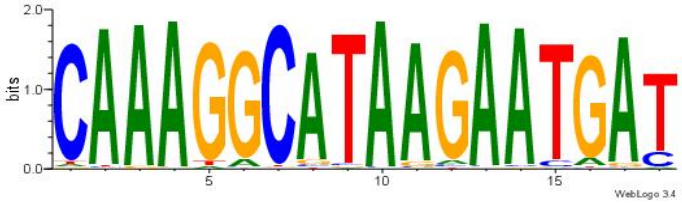

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

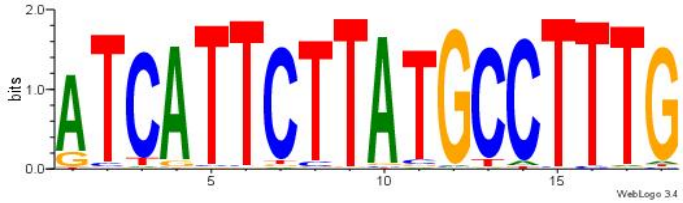

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0876942

Alignment:
GAAACTGCTTTGTGATGTGT
--ACCATCTTTAAGAACT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

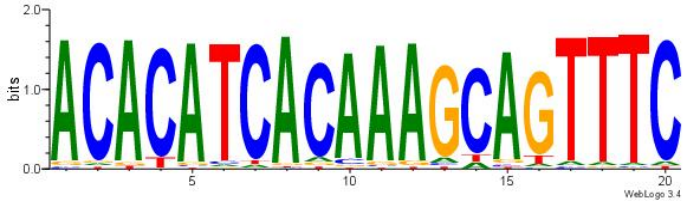

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

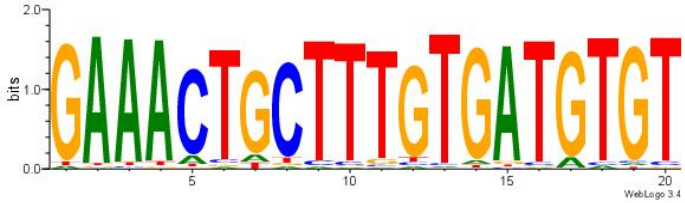

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0880938

Alignment:

```
KACGGGCTTAARAAACGGC
-ACCATCTTTAAGAACT--
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

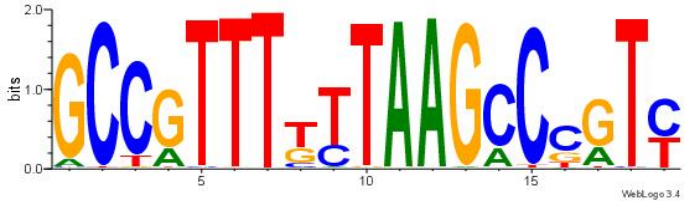

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

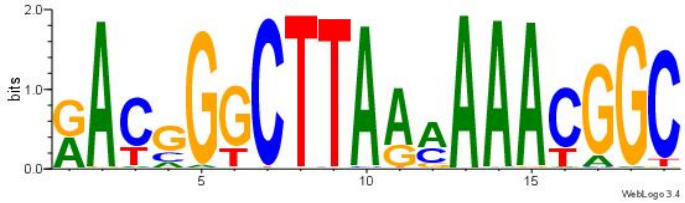

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.088173

Alignment:

```
AACCCTATTGTGAACTGYG
---ACCATCTTTAAGAACT
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

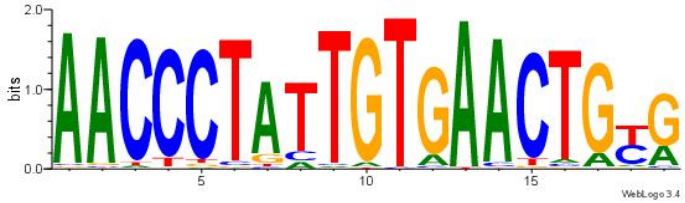

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

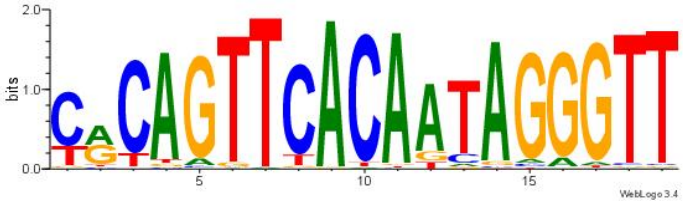

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.0887915

Alignment:
TTGTCCCACTGGAAGGTCTT
---ACCATCTTTAAGAACT-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

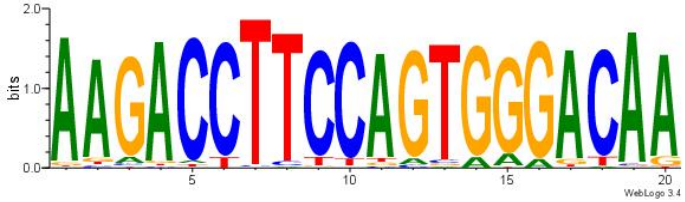

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

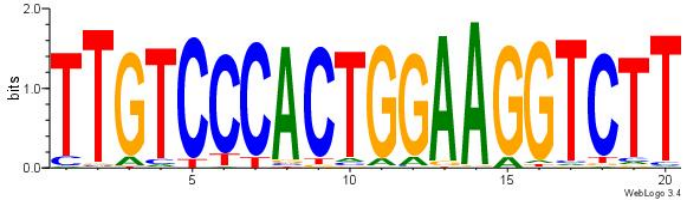

Dataset #: 1
Motif ID: 95
Motif name: Motif 95
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0890877

Alignment:
CACCTCCCAGACMGGGT
AGTTCTTAAAGATGGT-

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

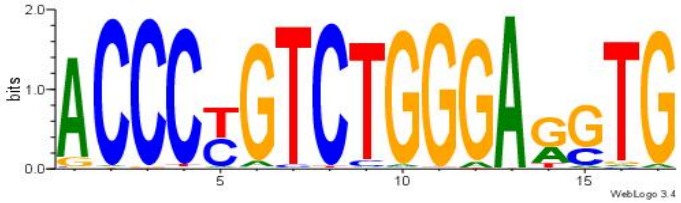

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

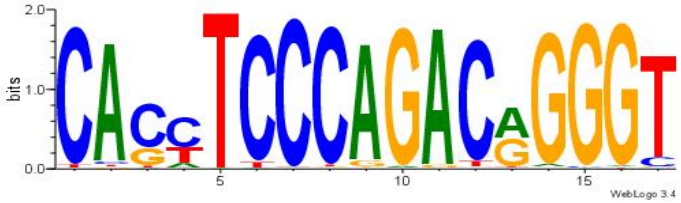

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0903469

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
---AGTTCTTAAAGATGGT-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

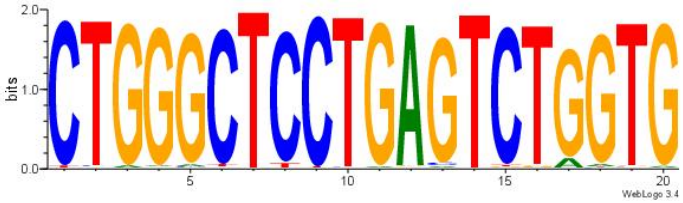

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

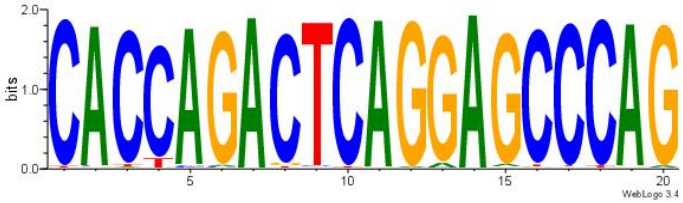

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.090888

Alignment:

```
CCTAGATTTCAGARGATGT
---AGTTCTTAAAGATGGT
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

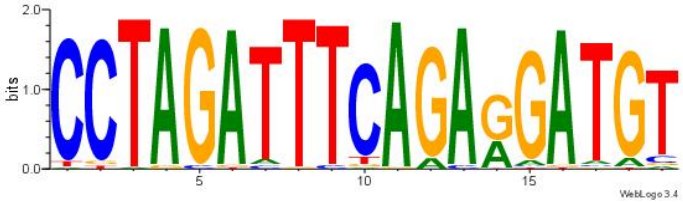

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

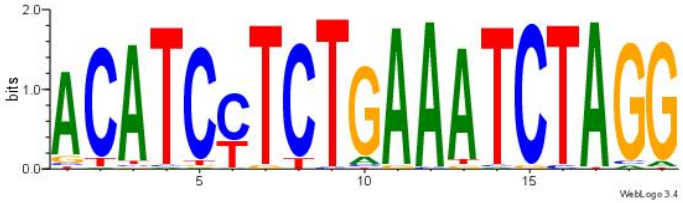

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.0924414

Alignment:
TCCAAATGGGAGAAATTGGC
----ACCATCTTTAAGAACT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

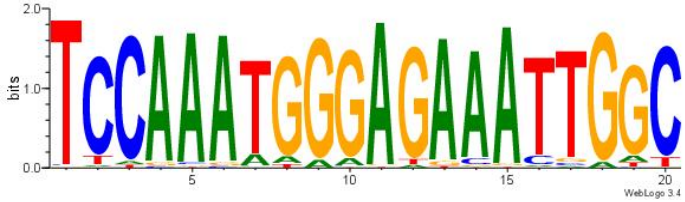

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

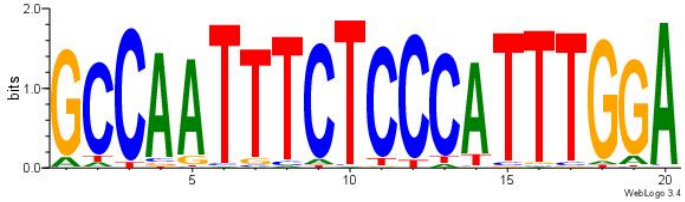

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.094919

Alignment:
CTATTGTGAATARTGCTGC
-AGTTCTTAAAGATGGT--

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

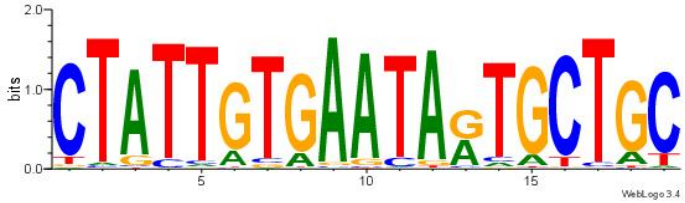

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

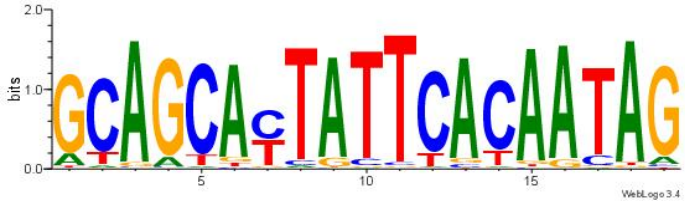

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0957478

Alignment:

```
CACTTCCCAGACGGGGCG
-AGTTCTTAAAGATGGT-
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

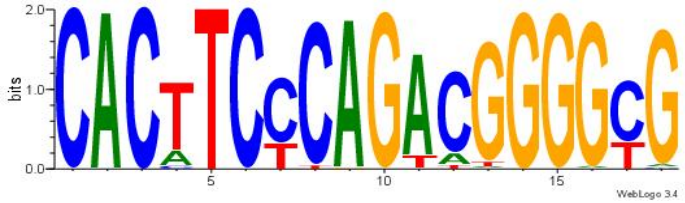

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

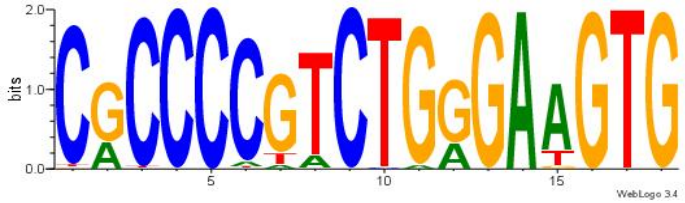

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.0975785

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
AGTTCTTAAAGATGGT----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

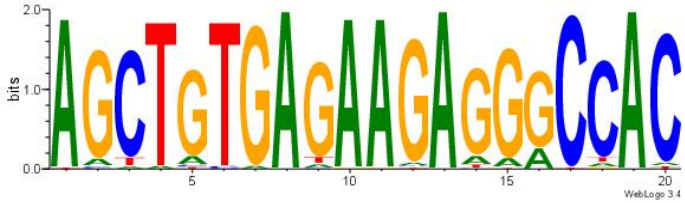

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

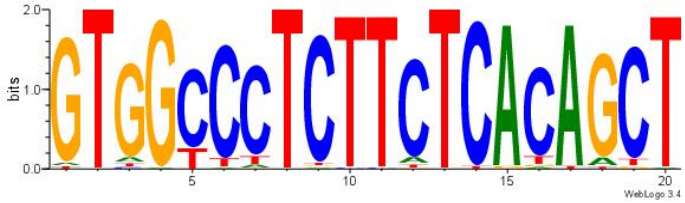

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.0993839

Alignment:
AGTGACCCGATTTTCCAGGT
----ACCATCTTTAAGAACT

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

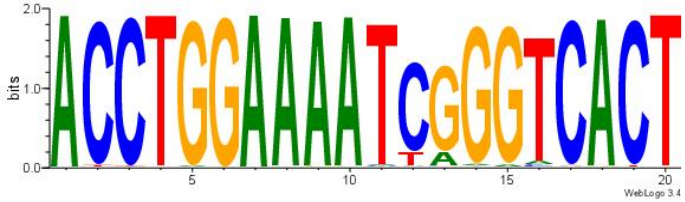

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

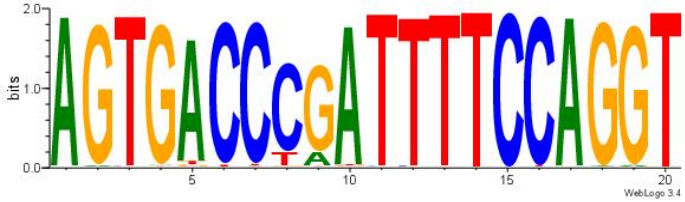

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.100506

Alignment:
TWTACCTATGTAACAAACCT
----ACCATCTTTAAGAACT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

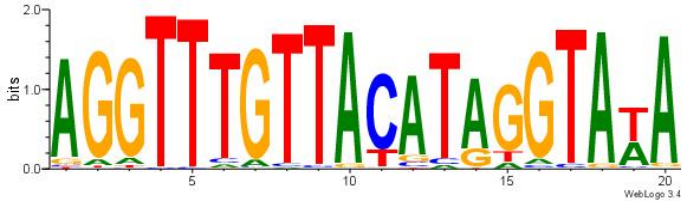

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

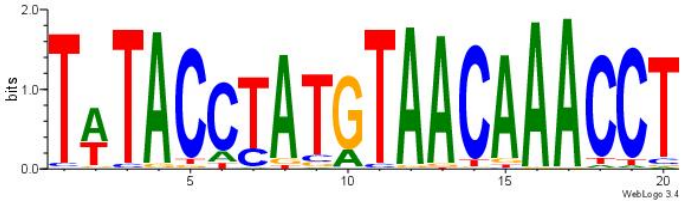

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.10086

Alignment:

```
TTYTTGTTGTTGTTGTT
AGTTCTTAAAGATGGT-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

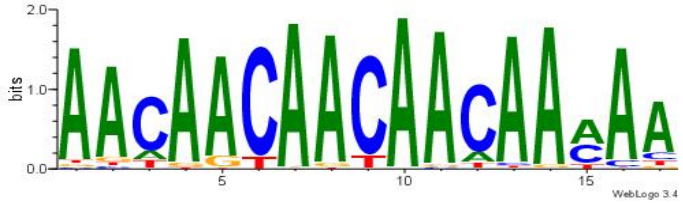

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

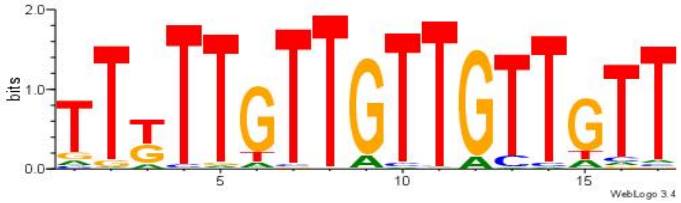

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.102048

Alignment:

```
GTTAACTGTAAAACAGCCT
---AGTTCTTAAAGATGGT
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

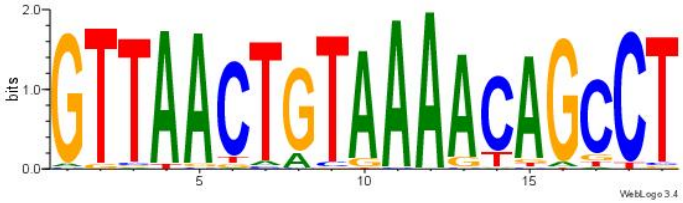

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

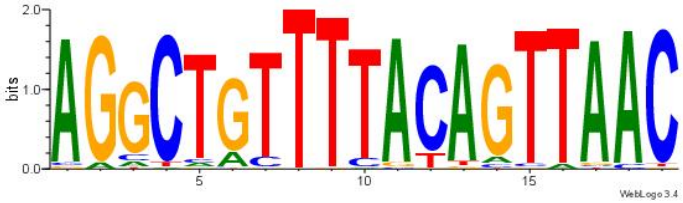

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.102062

Alignment:
TTCAMTCATGATTTGGCTCT
----ACCATCTTTAAGAACT

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

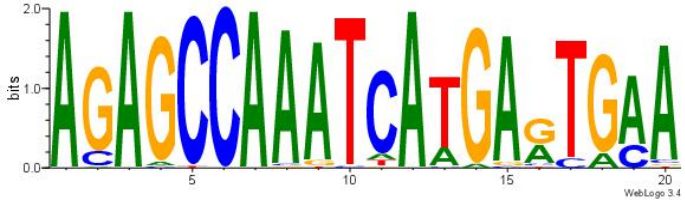

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

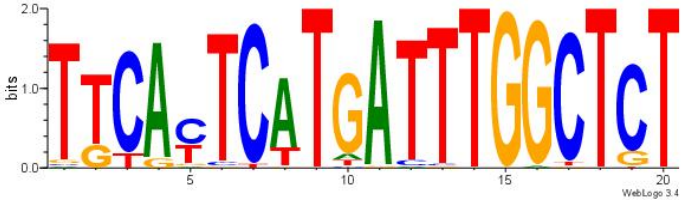

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.102295

Alignment:
AGTAGGTGCTCARTAAATRB
----AGTTCTTAAAGATGGT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

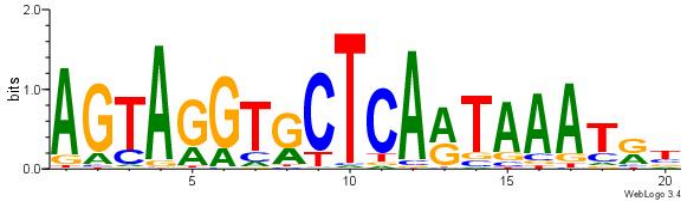

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

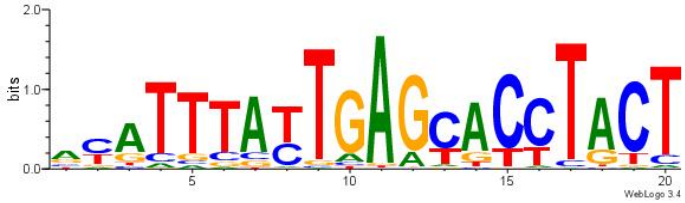

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.102558

Alignment:

```
AGTGAGAACATRYRRTRTTT
AGTTCTTAAAGATGGT----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

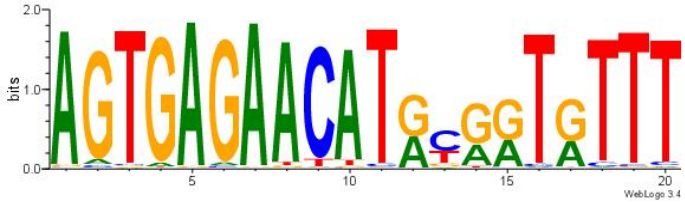

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

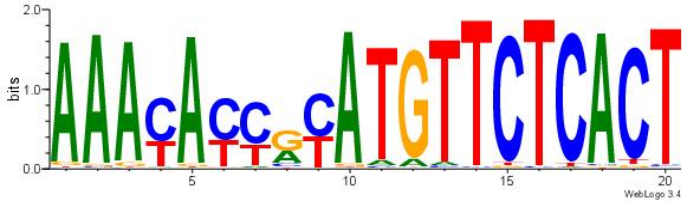

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.103051

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-ACCATCTTTAAGAACT---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

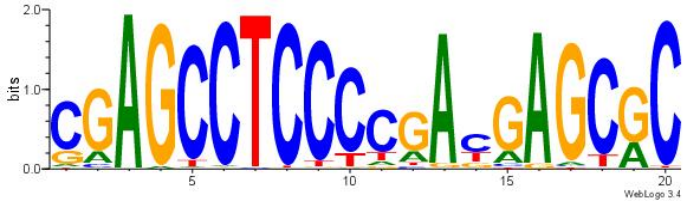

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

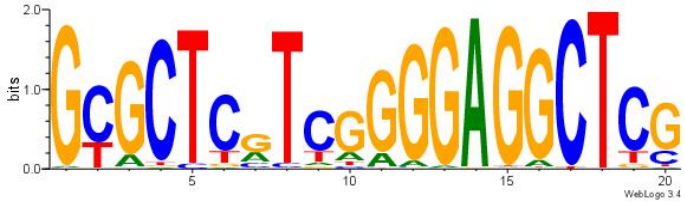

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.103076

Alignment:
AAGTCCAAGATCAAGGTGYY
-AGTTCTTAAAGATGGT---

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

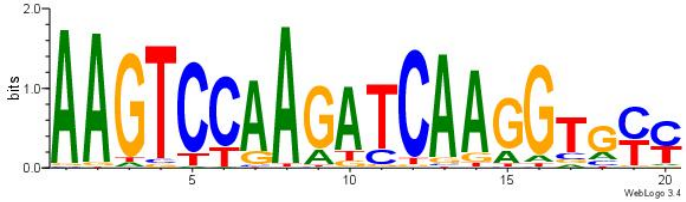

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

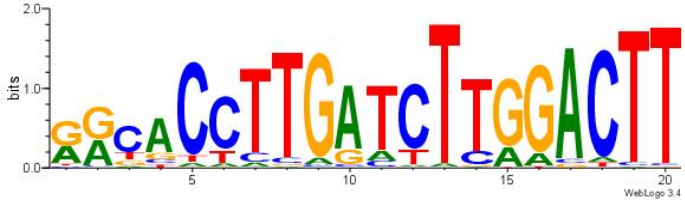

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.103297

Alignment:
AGTTCCGGGTGGGCGTGGG
AGTTCTTAAAGATGGT---

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

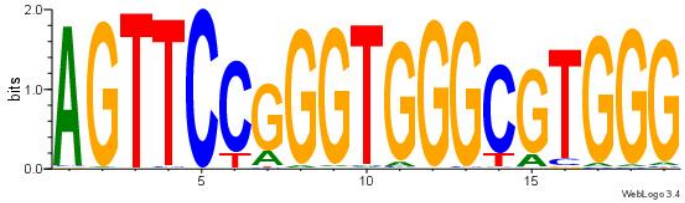

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

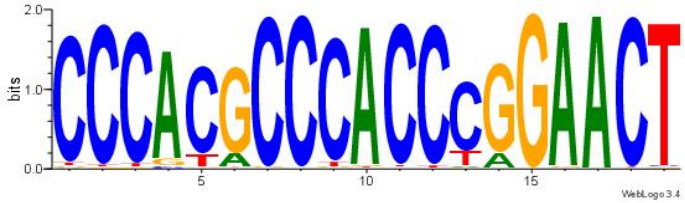

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.103942

Alignment:

```
CTAGACATAAAGGTTCTCCA
-AGTTCTTAAAGATGGT---
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

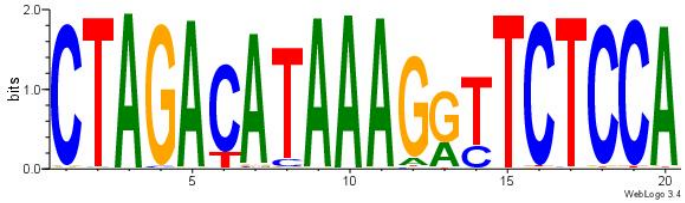

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

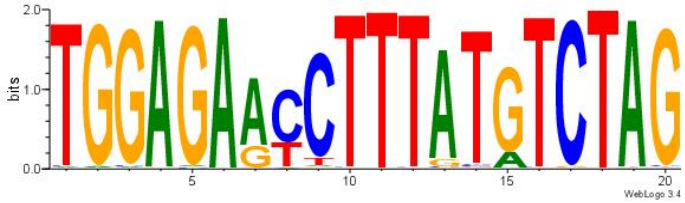

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.104444

Alignment:

```
AGTTGTAATTGGGAGACTT
AGTTCTTAAAGATGGT---
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

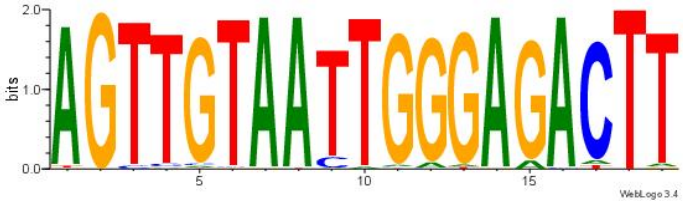

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

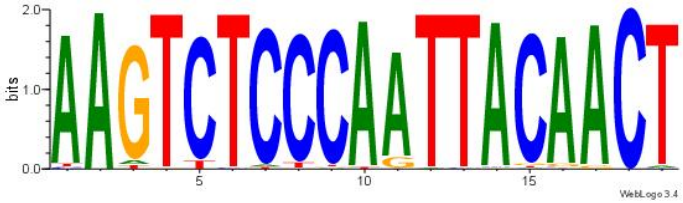

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.104853

Alignment:
AGCAGYTTGGAAACACT
ACCATCTTTAAGAACT-

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

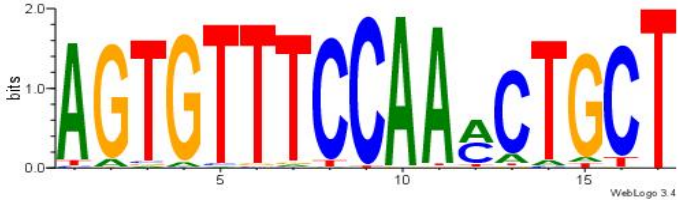

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

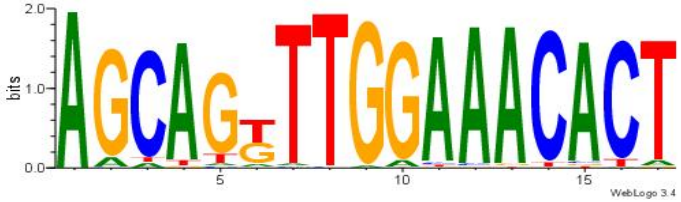

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.10596

Alignment:
CAGCTACTCKTATACCCTTG
-ACCATCTTTAAGAACT---

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

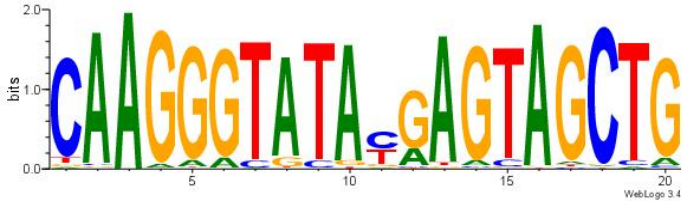

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

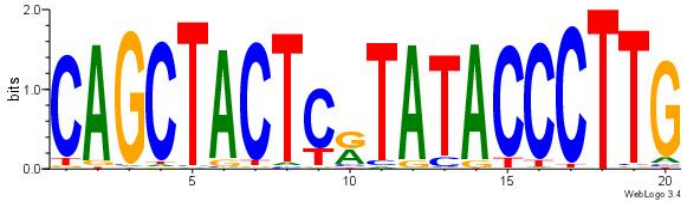

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.106379

Alignment:

```
TAATTTTATGTGTCAACTTG
--ACCATCTTTAAGAACT--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

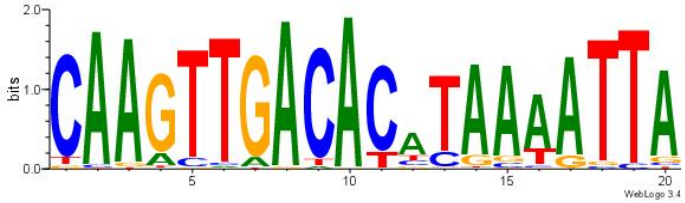

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

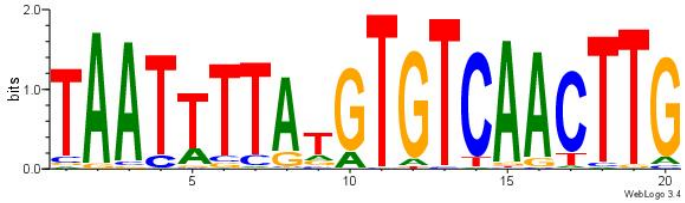

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.106873

Alignment:

```
ATGTGGAGGTGGAAGACAGT
AGTTCTTAAAGATGGT----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

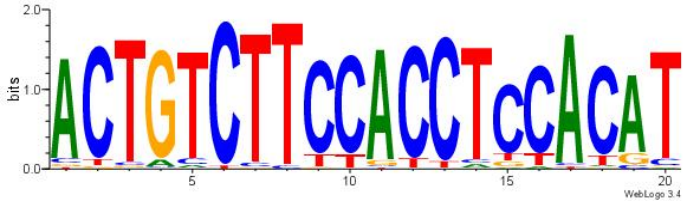

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

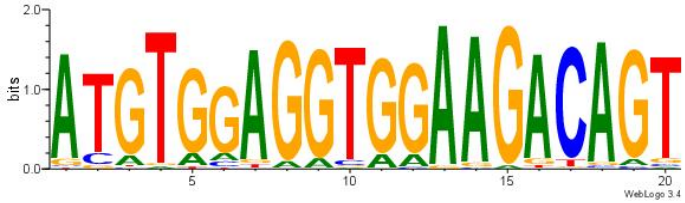

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.107524

Alignment:
AATGAGTTAAGACTTTG
AGTTCTTAAAGATGGT-

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

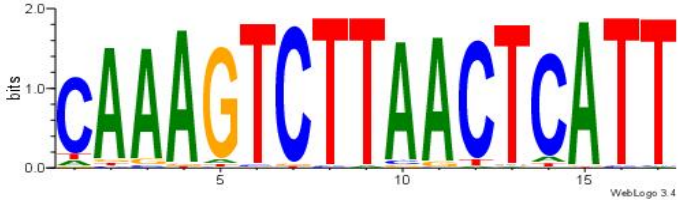

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.109031

Alignment:
ACCCAATWTGTAGTCTTTTA
-ACCATCTTTAAGAACT---

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

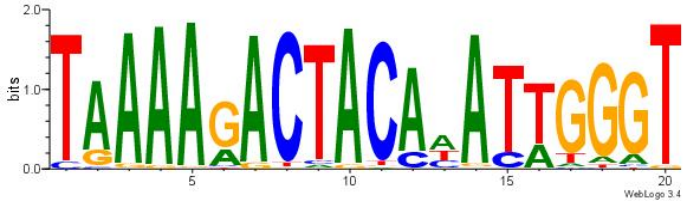

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

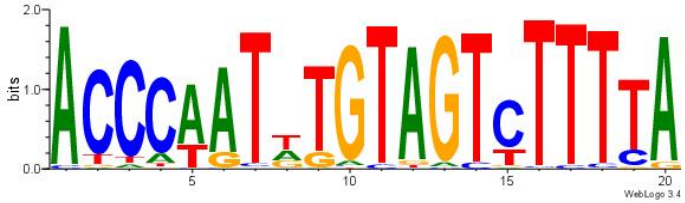

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.109673

Alignment:

```
AGCTCCCAGCGTGAGCGACG
ACCATCTTTAAGAACT----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

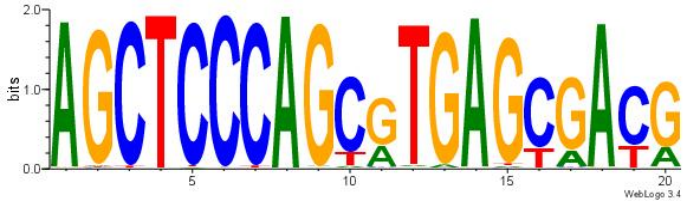

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

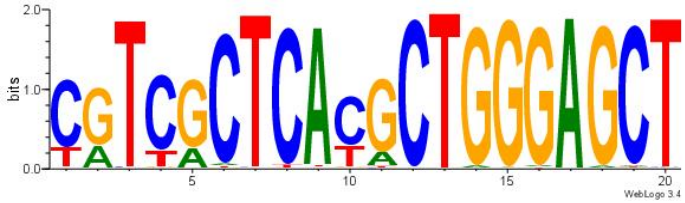

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.110441

Alignment:

```
AAGAGGTTTAATTGRCTCA
---ACCATCTTTAAGAACT
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

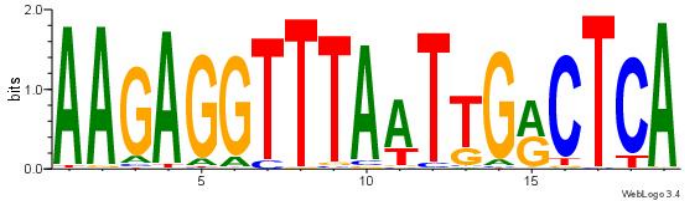

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

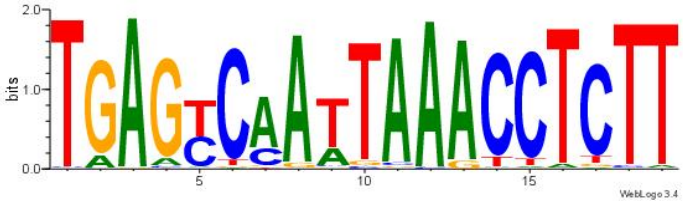

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.110602

Alignment:
CAAGCCTSKGCAATGGCAGG
---AGTTCTTAAAGATGGT-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

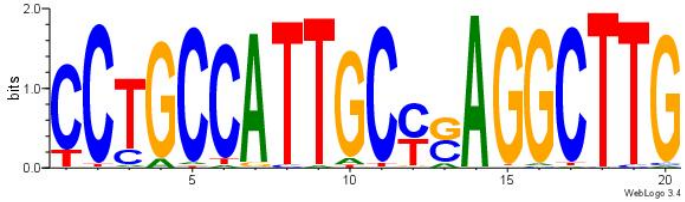

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

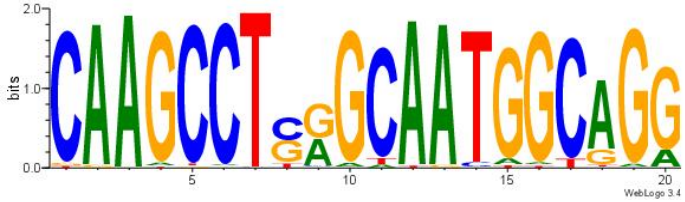

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.110977

Alignment:
KGCAACCTAGATCCCT
ACCATCTTTAAGAACT

Original motif Consensus sequence: AGGGATCTAGGTTGCR

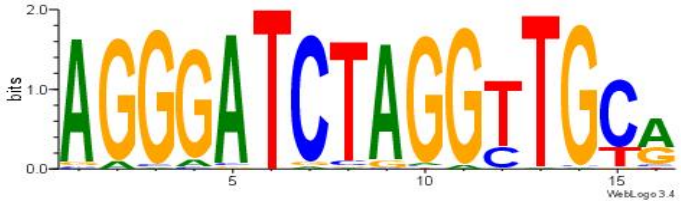

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

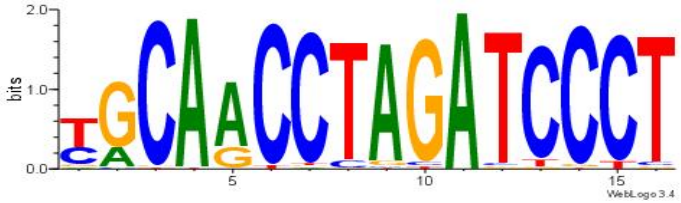

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.111679

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
AGTTCTTAAAGATGGT----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

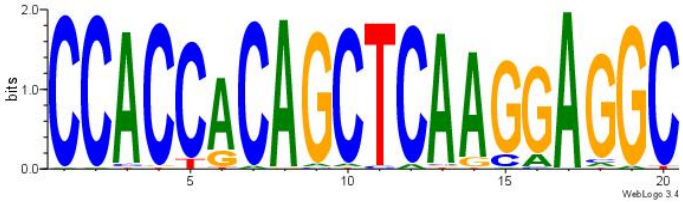

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

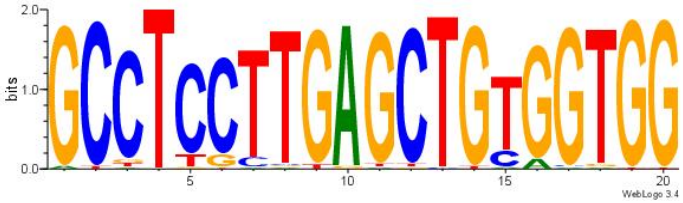

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.11221

Alignment:

```
GACAGGAGATTAACACTGAG
AGTTCTTAAAGATGGT----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

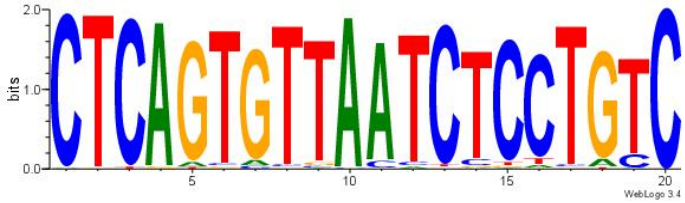

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

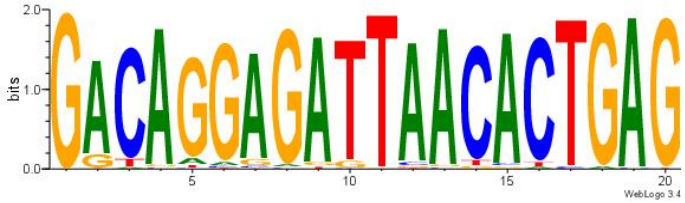

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.112394

Alignment:
CCCATGCAAGTCYRAAATCC
----ACCATCTTTAAGAACT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

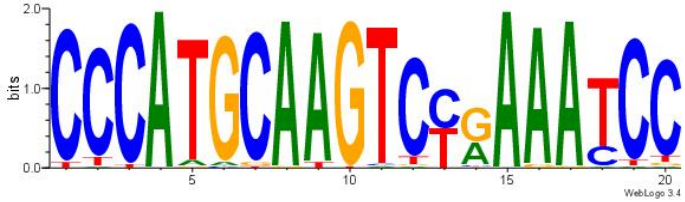

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

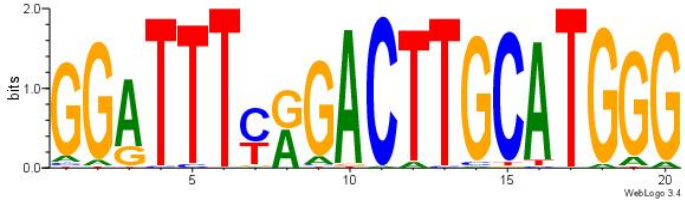

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.112624

Alignment:
TAGTGGTGATTTSTGAGAT
--AGTTCTTAAAGATGGT-

Original motif Consensus sequence: ATCTCASAAATCACCACTA

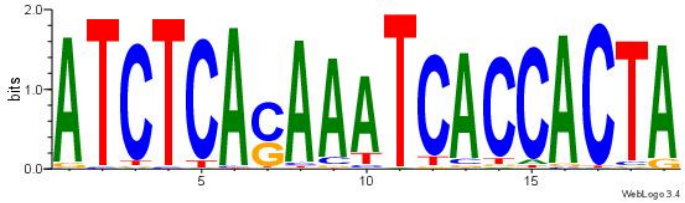

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

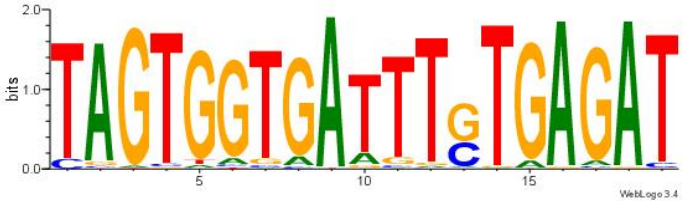

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.112673

Alignment:

```
ATAAAAACTTGCTGGTTTT
---AGTTCTTAAAGATGGT
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

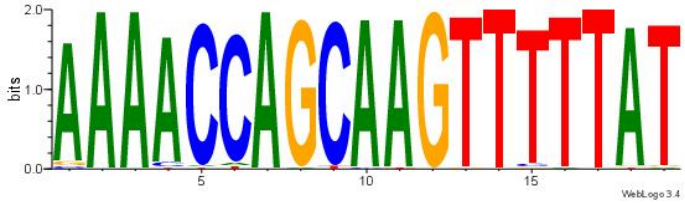

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

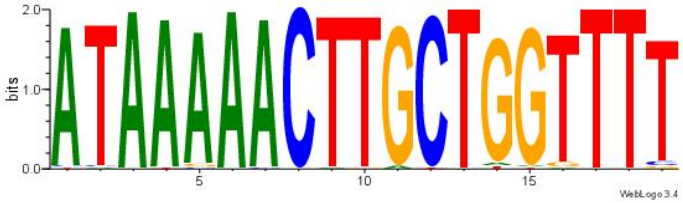

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.113021

Alignment:

```
GCTCCACCCAGTTCGAGCTT
---ACCATCTTTAAGAACT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

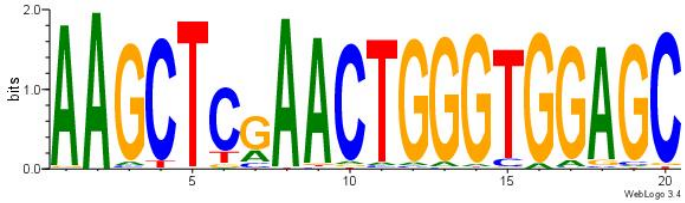

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

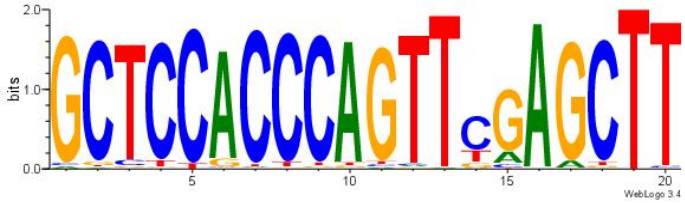

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.113286

Alignment:
CGCCCATCGTCTGGGATGT
--ACCATCTTTAAGAACT-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

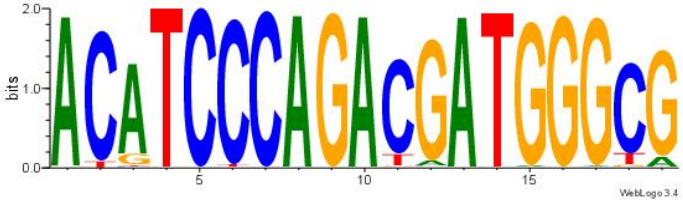

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

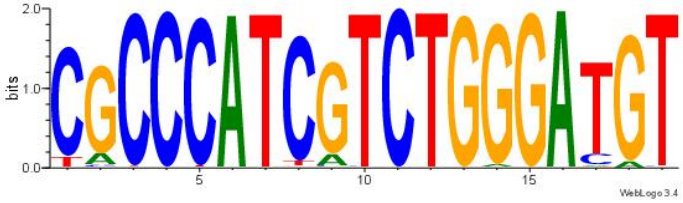

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.113405

Alignment:
GGAGGTGTGGAGGGAGAGGC
--AGTTCTTAAAGATGGT--

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

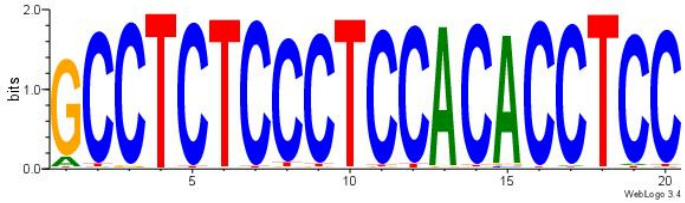

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

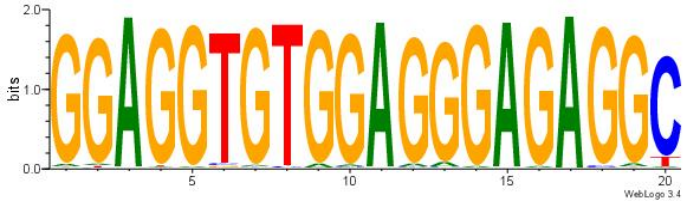

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.113847

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
AGTTCTTAAAGATGGT----
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

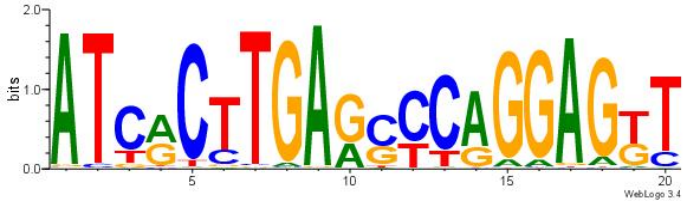

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

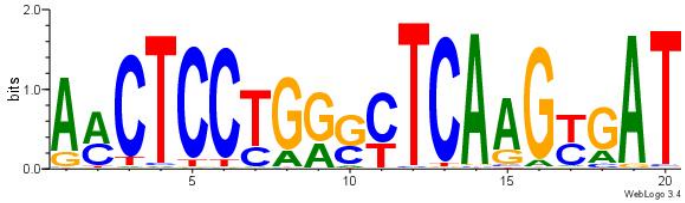

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.114151

Alignment:

```
CAAASCKGTCATAGGCCAT
---AGTTCTTAAAGATGGT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

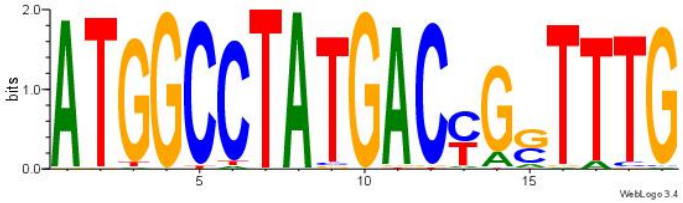

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

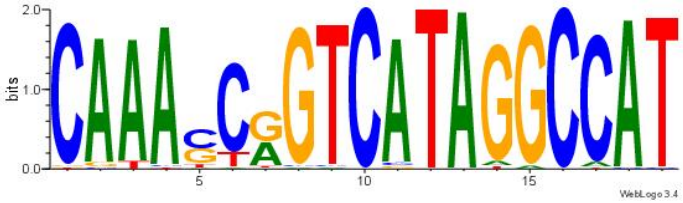

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.114555

Alignment:
ATGGACAYTTRGGTTGHTTC
--AGTTCTTAAAGATGGT--

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

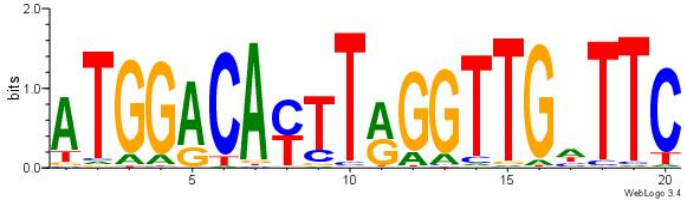

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

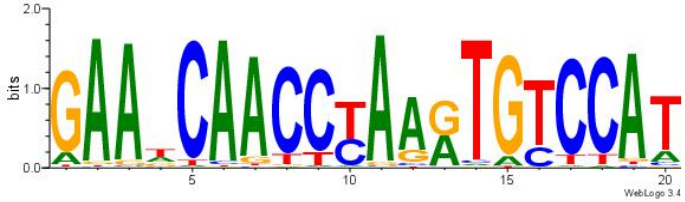

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 16
Similarity score: 0.114868

Alignment:
ATGGCTGAATAKTATTCCAT
----AGTTCTTAAAGATGGT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

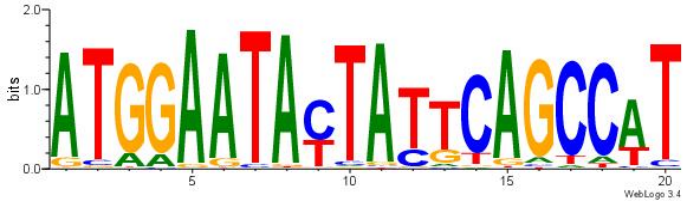

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

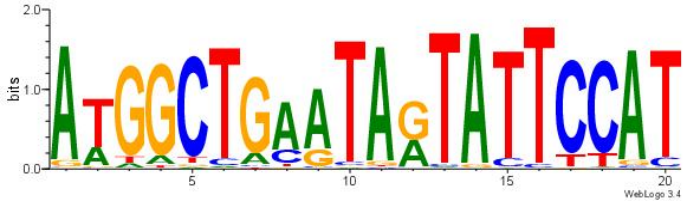

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.115036

Alignment:

```
CTGGCCCTCAATGGTTAAAC
--AGTTCTTAAAGATGGT--
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

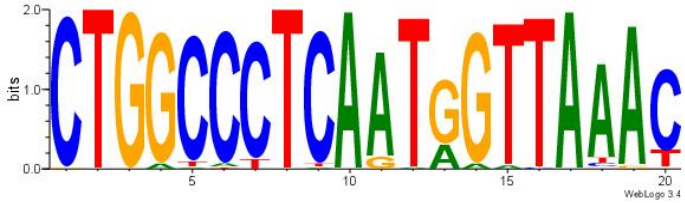

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

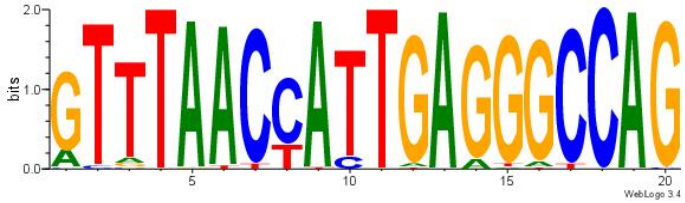

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.116131

Alignment:
ACTTTCAGGCATAACA
ACCATCTTTAAGAACT

Original motif Consensus sequence: ACTTTCAGGCATAACA

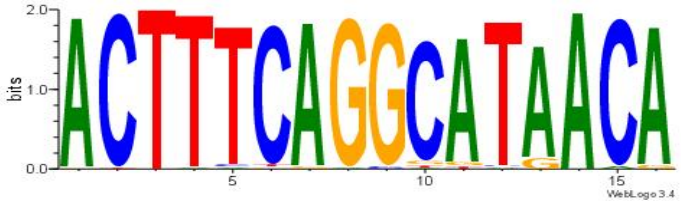

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

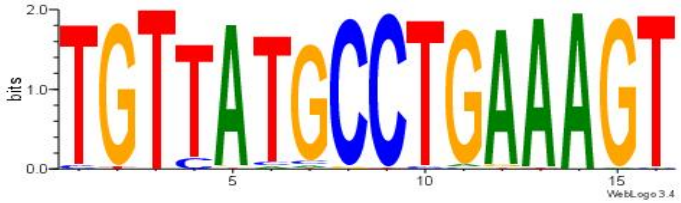

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.116275

Alignment:
TTGGAGGTTCTAGCAGGG
AGTTCTTAAAGATGGT--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

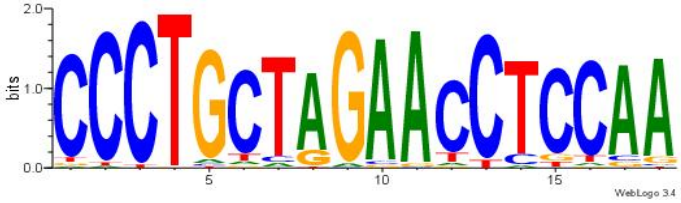

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

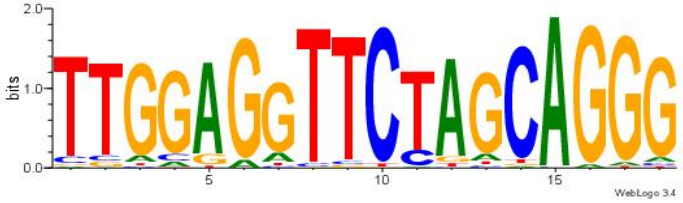

Dataset #: 1 Motif ID: 304 Motif name: Motif 304

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

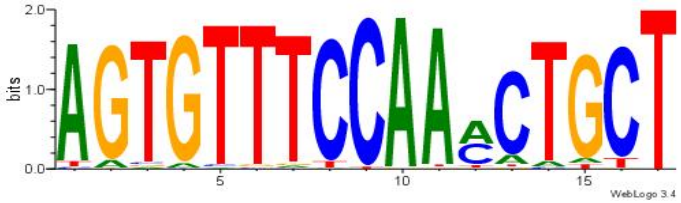

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

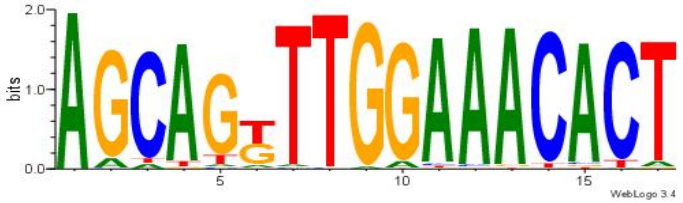

Best Matches for Motif ID 304 (Highest to Lowest)

Dataset #: 1
Motif ID: 139
Motif name: Motif 139

Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0916595

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
AGTGTTTCCAAMCTGCT---
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

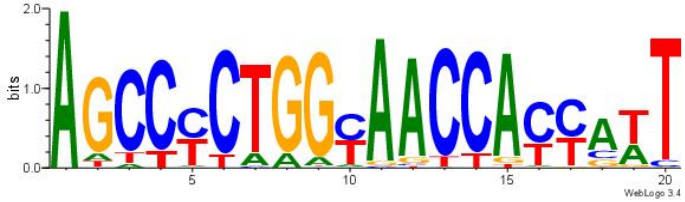

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

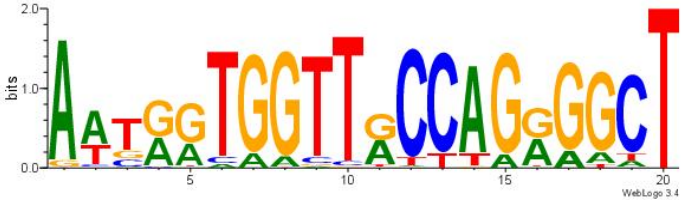

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0916702

Alignment:
ACTGTCTTCCACCTCCACAT
AGTGTTTCCAAMCTGCT---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

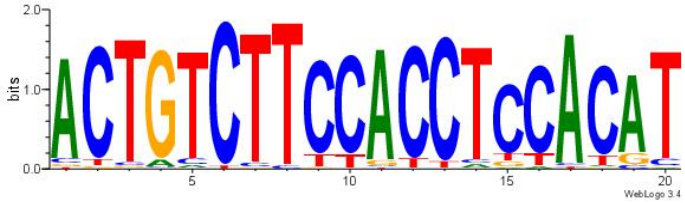

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

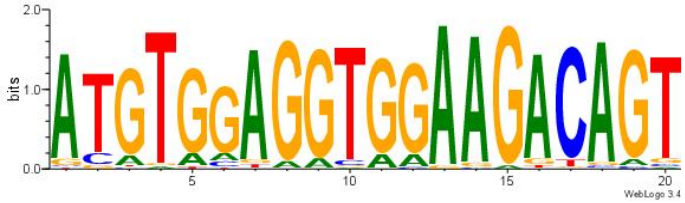

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.095632

Alignment:
CAGCTACTCKTATACCCTTG
-AGCAGYTTGGAAACACT--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

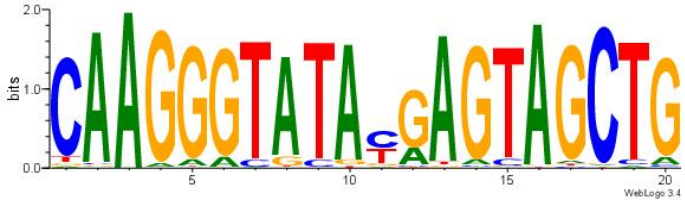

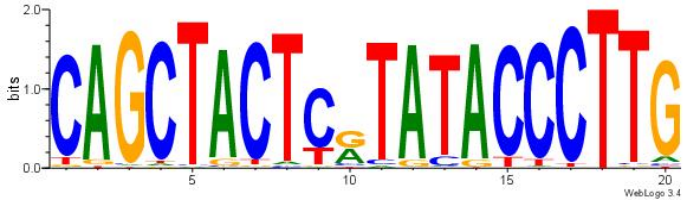

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.102026

Alignment:

```
CTCAGTGTTAATCTCCTGTC
---AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

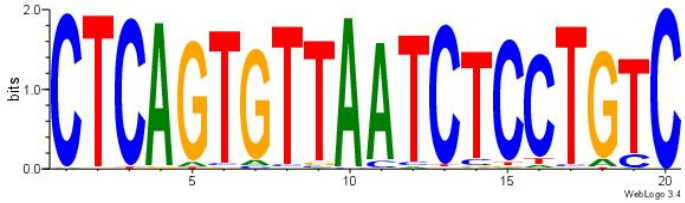

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

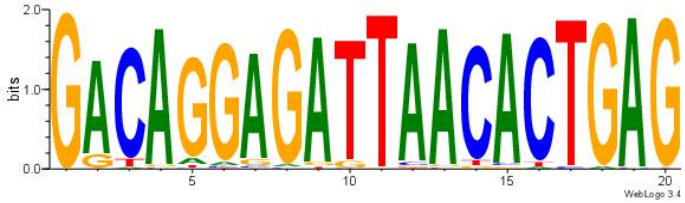

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.107468

Alignment:

```
GCCAATTTCTCCCATTTGGA
AGTGTTTCCAAMCTGCT---
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

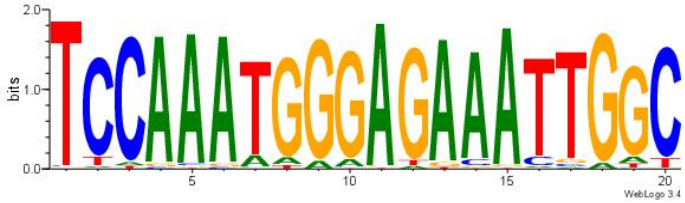

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

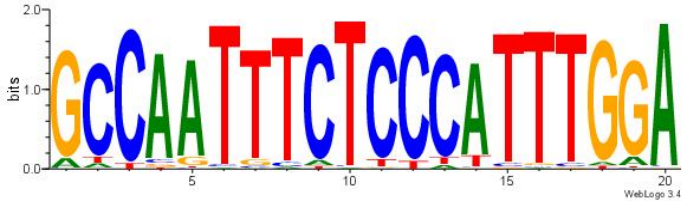

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.108929

Alignment:
GCTGCARTCTCGGCACTTT
--AGCAGYTTGGAAACACT

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

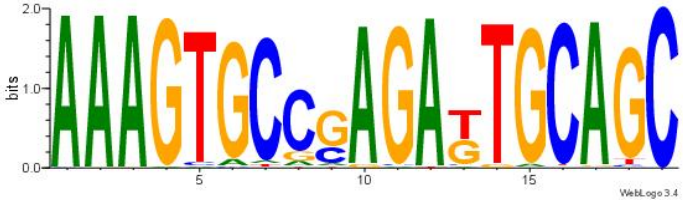

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

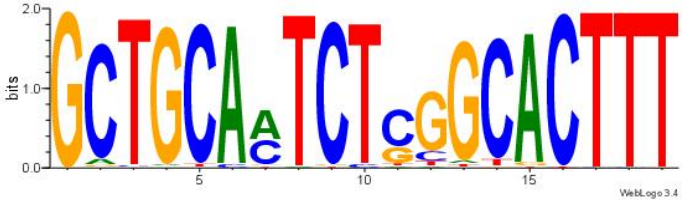

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.110532

Alignment:
AAGAGGTTTAATTGRCTCA
--AGCAGYTTGGAAACACT

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

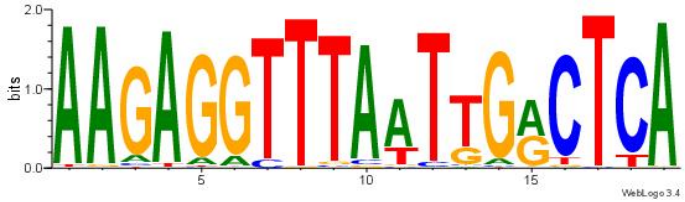

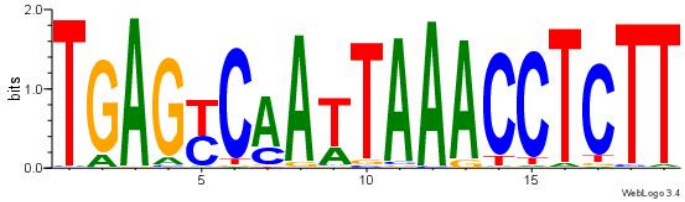

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.113572

Alignment:

```
ATTGGTGTATTTACAATCCC
---AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

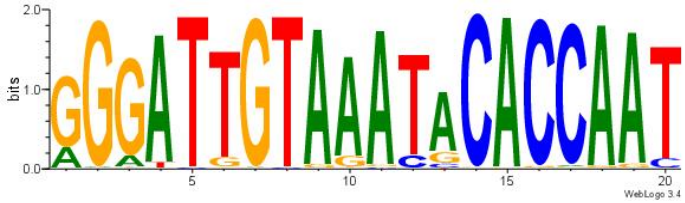

Dataset #: 1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.113712

Alignment:

```
CMCAGTTCACAATAGGGTT
-AGTGTTTCCAAMCTGCT-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

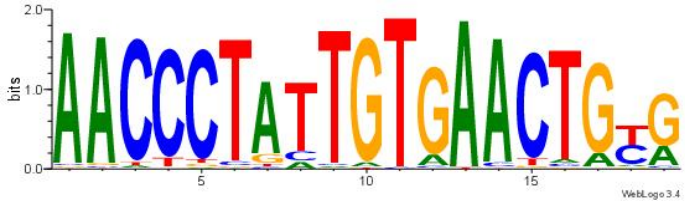

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

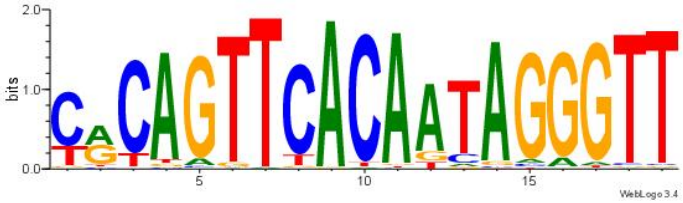

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.115299

Alignment:
GCGCTCKTCGGGGAGGCTCG
-AGCAGYTTGGAAACACT--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

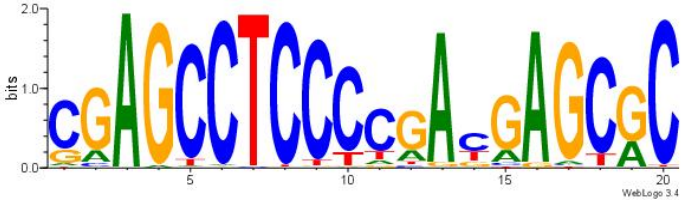

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

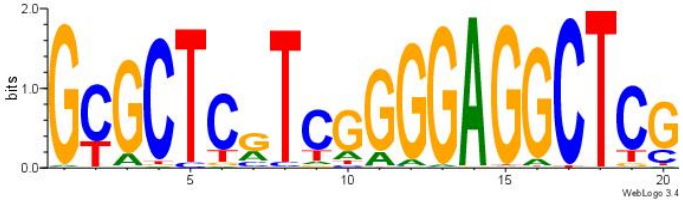

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.117314

Alignment:
AAAMAMMKMATGTTCTCACT
---AGCAGYTTGGAAACACT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

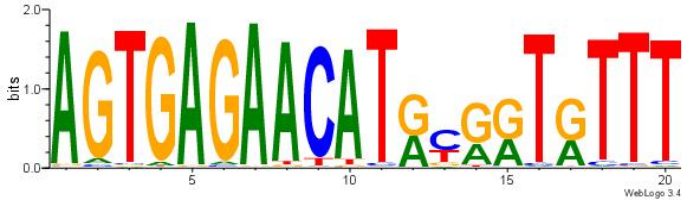

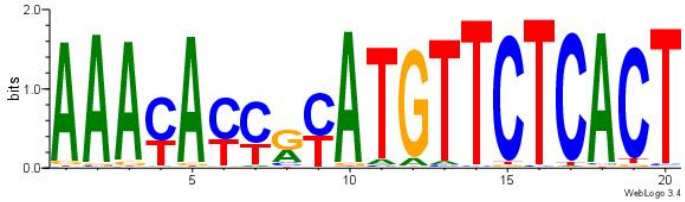

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.11899

Alignment:

```
GGCACTGCTGGGGGACCCAG
--AGCAGYTTGGAAACACT-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

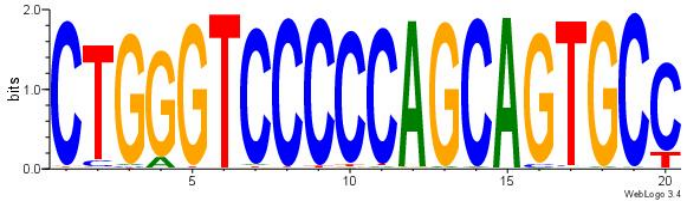

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

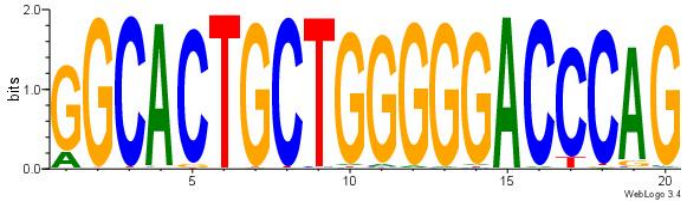

Dataset #:	1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.119453

Alignment:

```
CTCAGGAATGGAAAACC
AGCAGYTTGGAAACACT
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

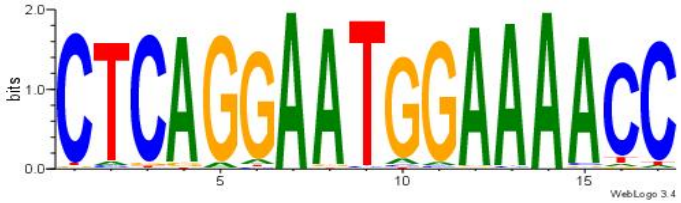

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

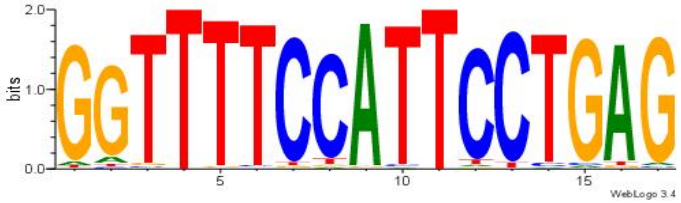

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.119589

Alignment:
AAGACCTTCCAGTGGGACAA
-AGTGTTTCCAAMCTGCT--

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

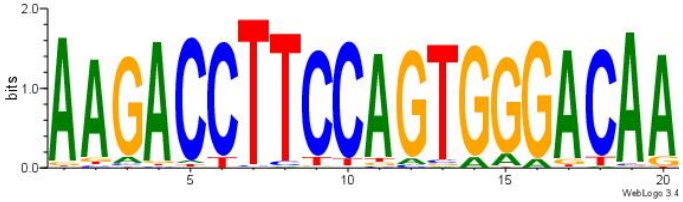

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

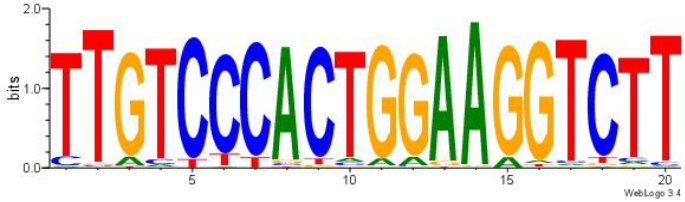

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.120254

Alignment:
MGTCTMKCTCTGTKGCCCAG
---AGTGTTTCCAAMCTGCT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

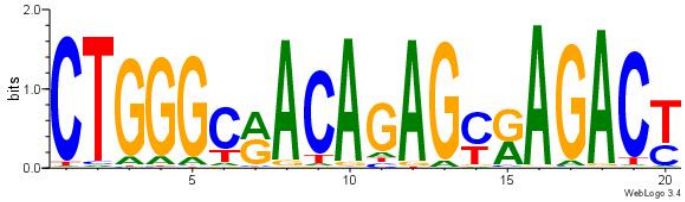

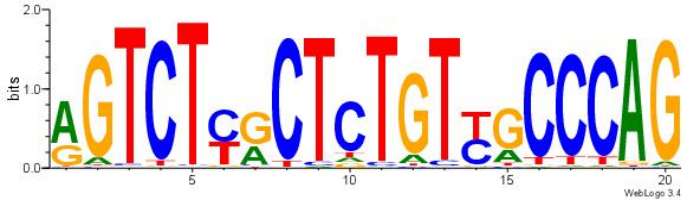

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.120649

Alignment:

```
GCCGTTTKTTAAGCCCGTY
--AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

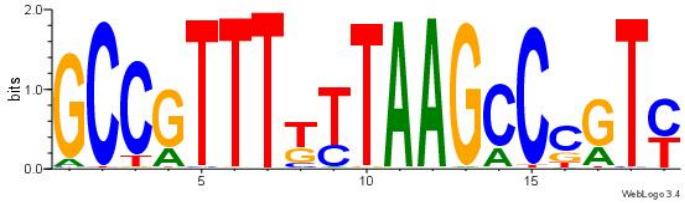

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

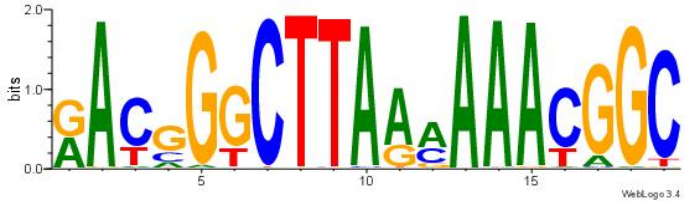

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.120906

Alignment:

```
AGTAGGTGCTCARTAAATRB
---AGCAGYTTGGAAACACT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

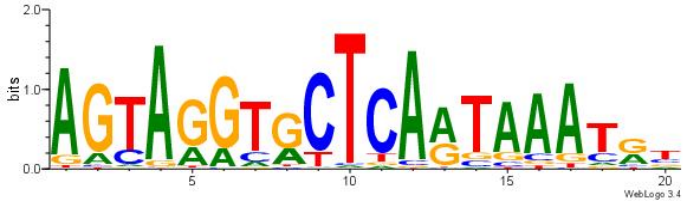

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

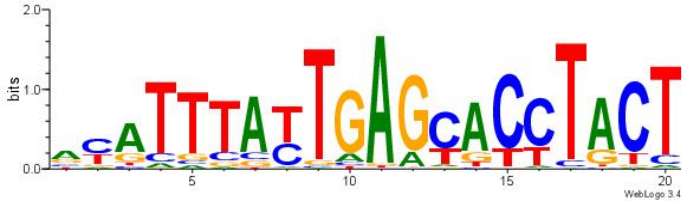

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.124178

Alignment:
GCAGCAMTATTCACAATAG
--AGCAGYTTGGAAACACT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

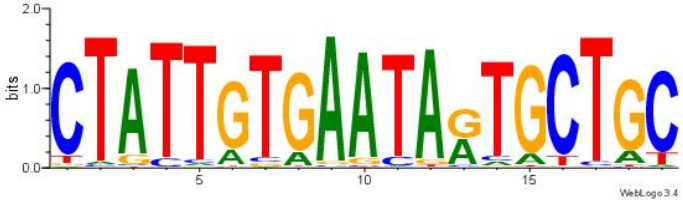

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

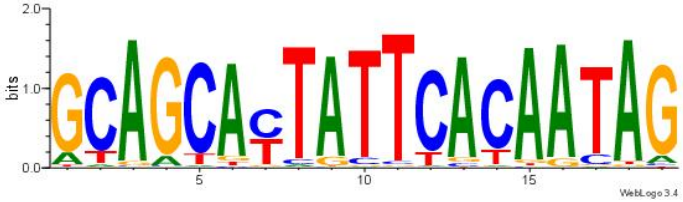

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.125449

Alignment:
AAGTTCTKGGKTACATGTGC
AGCAGYTTGGAAACACT---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

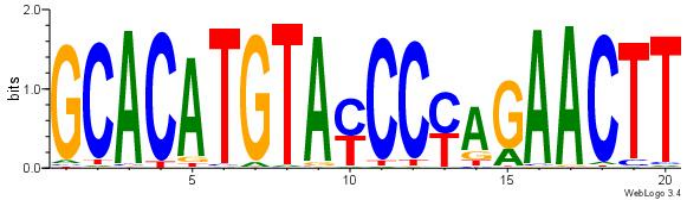

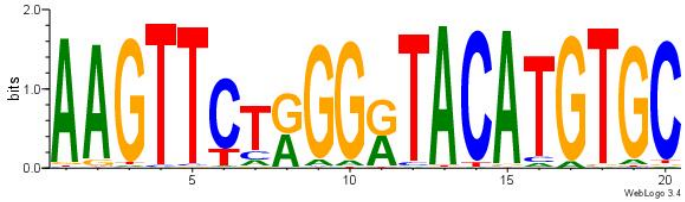

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.125468

Alignment:

```
TWTACCTATGTAACAAACCT
---AGCAGYTTGGAAACACT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

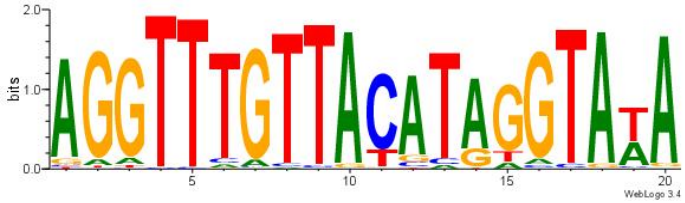

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

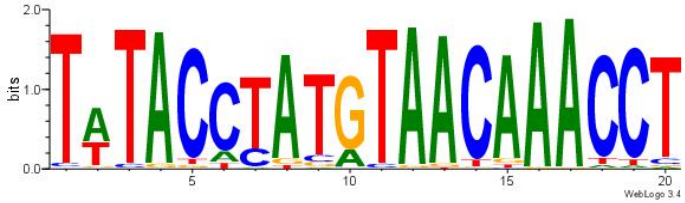

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.126529

Alignment:

```
AGTGACCCGATTTTCCAGGT
---AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

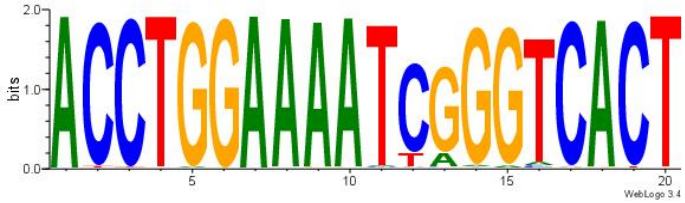

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

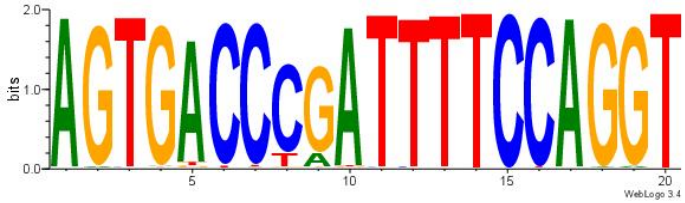

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.127706

Alignment:
TACCTGAGACTGGGTAATTT
---AGCAGYTTGGAAACACT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

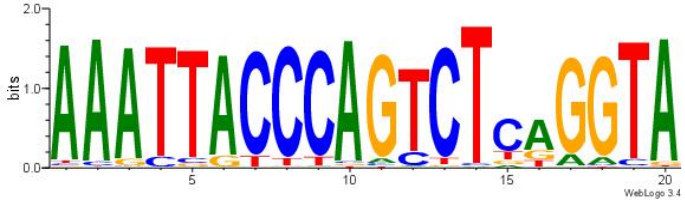

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

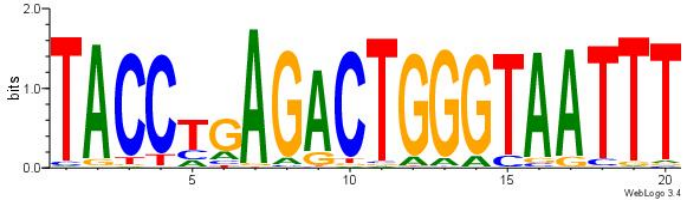

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.128332

Alignment:
AGGCTGTTTTACAGTTAAC
AGTGTTTCCAAMCTGCT--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

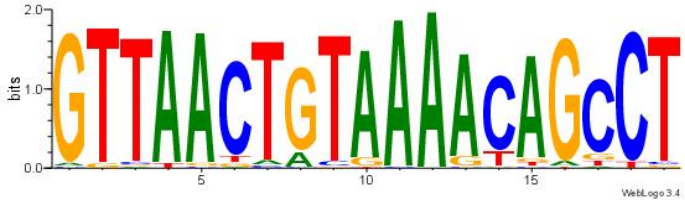

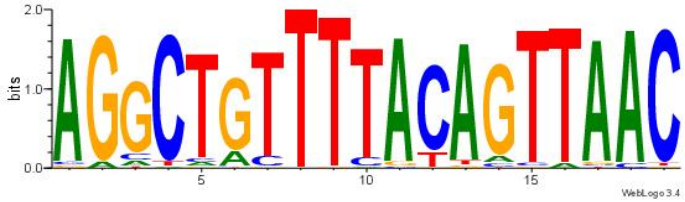

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.128846

Alignment:

```
AATGAGTTAAGACTTTG
AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

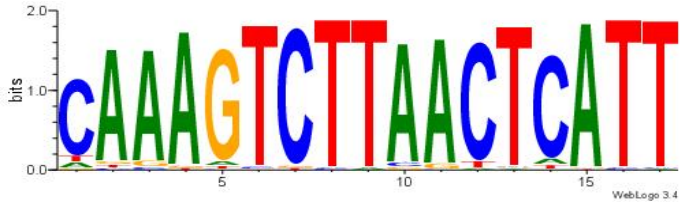

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.128979

Alignment:

```
AAAATGTGGTAYATAYAYAC
---AGCAGYTTGGAAACACT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

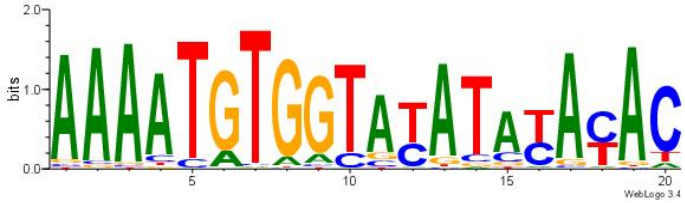

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

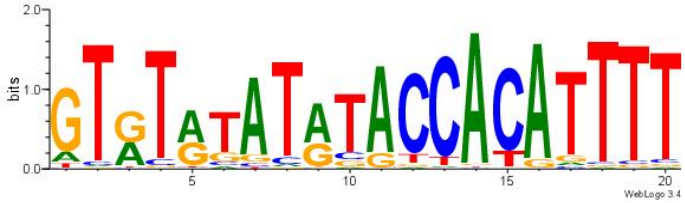

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.129867

Alignment:
ATACAATGGGGGTACAGRC
-AGCAGYTTGGAAACACT-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

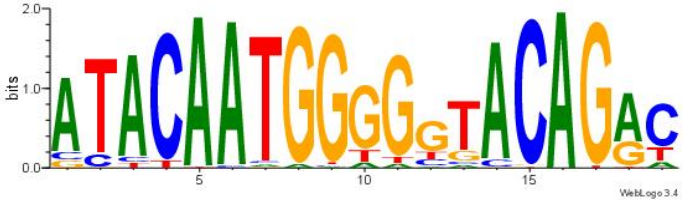

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

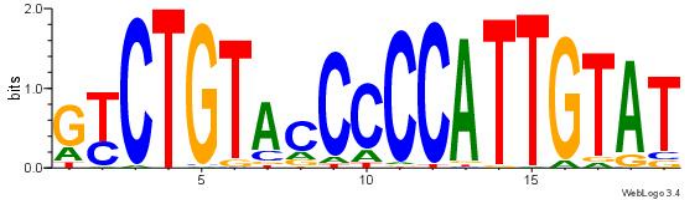

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.130152

Alignment:
GAAACTGCTTTGTGATGTGT
--AGCAGYTTGGAAACACT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

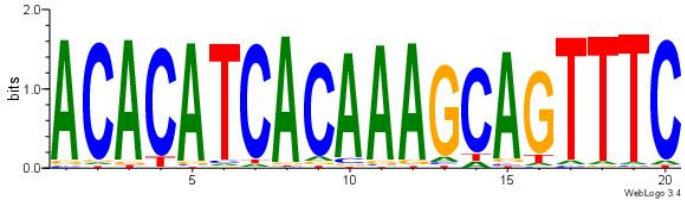

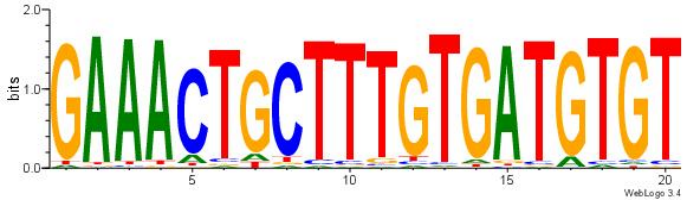

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.130167

Alignment:

```
GTGGCCCTCTTCTCACAGCT
AGTGTTTCCAAMCTGCT---
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

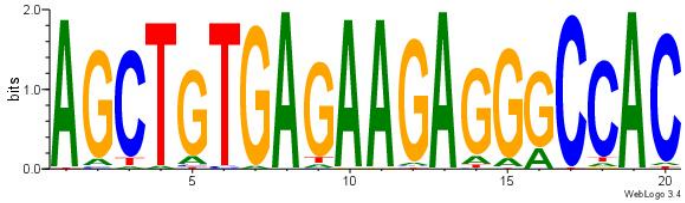

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

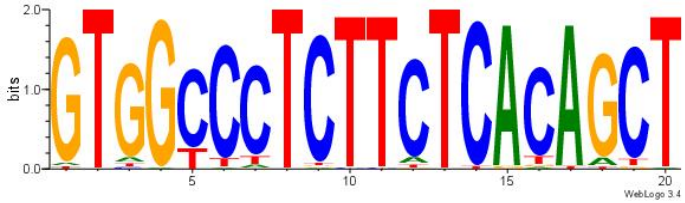

Dataset #:	1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.130438

Alignment:

```
GAAATTGACTTCCTCCT
AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

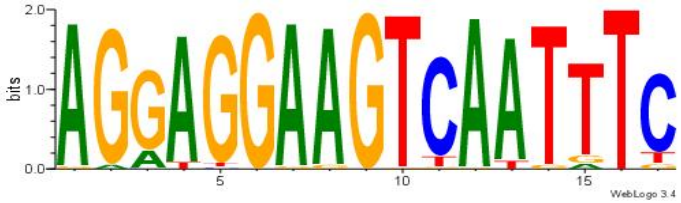

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

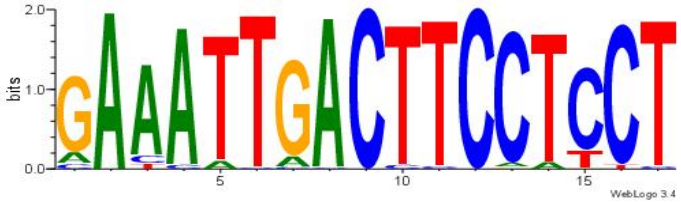

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.130541

Alignment:
CCCMKGGCACCCTCAGTCCT
---AGTGTTTCCAAMCTGCT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

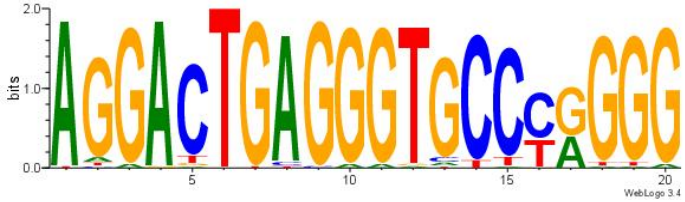

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

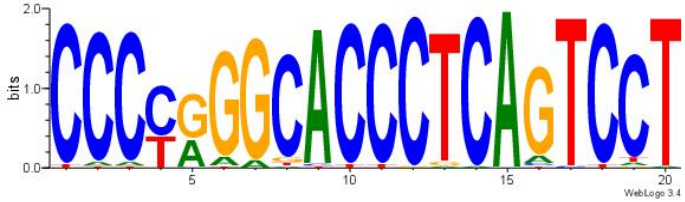

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.130591

Alignment:
TGGCTTCACCCAGTGGATCC
--AGTGTTTCCAAMCTGCT-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

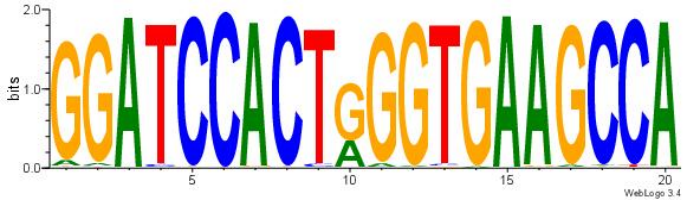

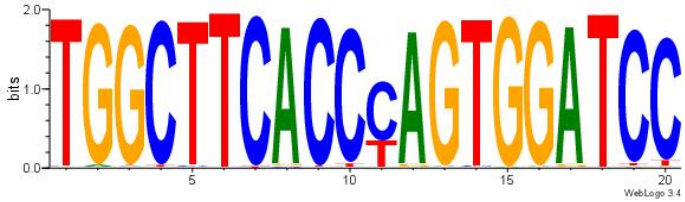

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.131113

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
---AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

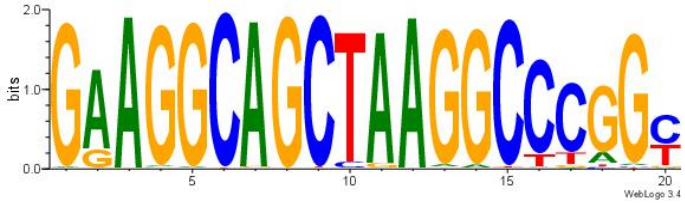

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

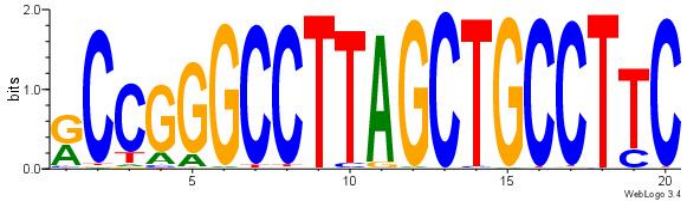

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.131178

Alignment:

```
TAAAAGACTACAWATTGGGT
--AGTGTTTCCAAMCTGCT-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

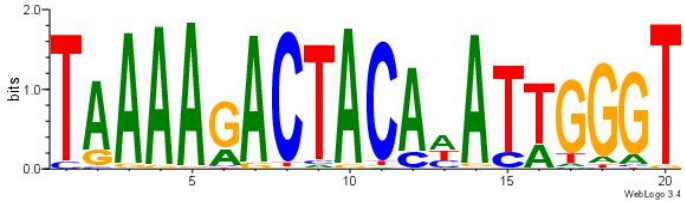

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

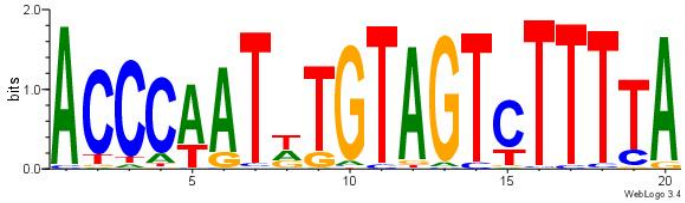

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.131975

Alignment:
GCCTCTCCCTCCACACCTCC
---AGTGTTTCCAAMCTGCT

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

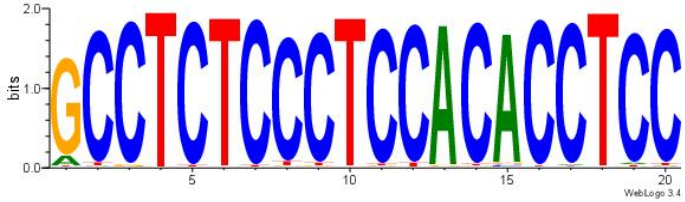

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

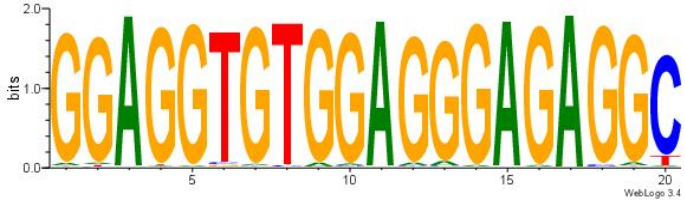

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.133141

Alignment:
AGATGCCAGCCAGAGCTCT
AGCAGYTTGGAAACACT--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

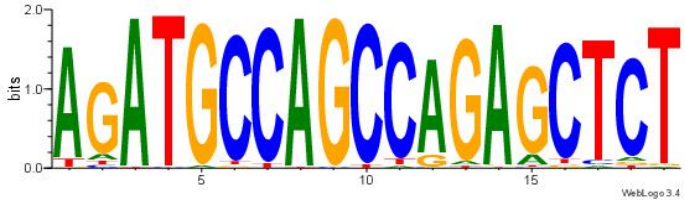

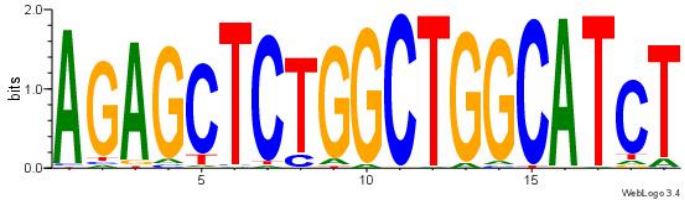

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.133741

Alignment:

```
ACAGGCTGTCCCAGGATTC
AGTGTTTCCAAMCTGCT--
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

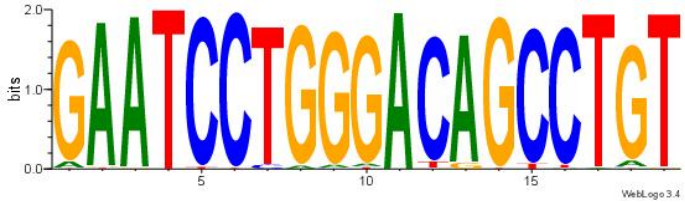

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

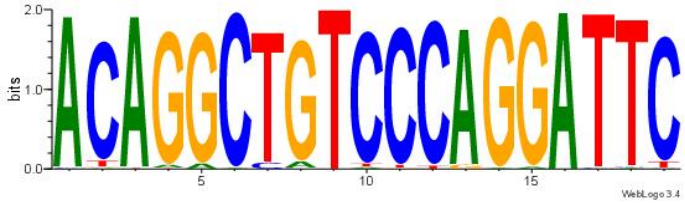

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.133966

Alignment:

```
TYTGTCMTTTTGTGACTGGC
AGTGTTTCCAAMCTGCT---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

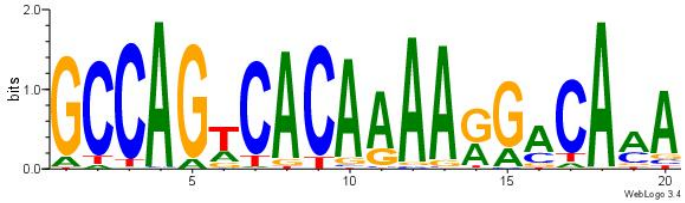

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

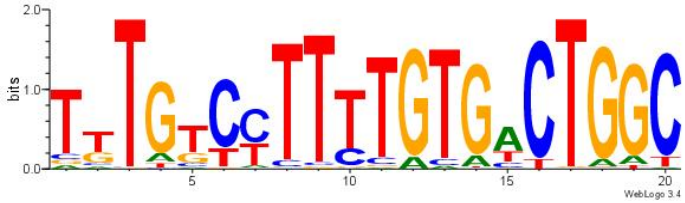

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.134011

Alignment:
GGCATCACGGATCCTACCAA
AGCAGYTTGGAAACACT---

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

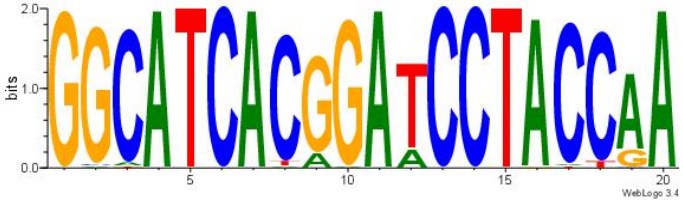

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

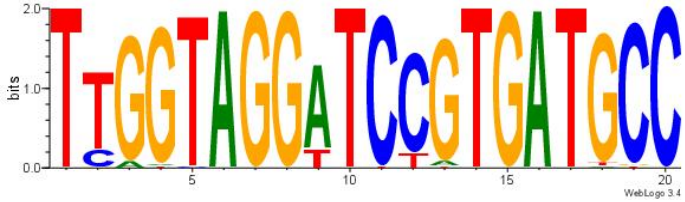

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.134169

Alignment:
AAGCTGAGGGAGCCGGCTCC
--AGCAGYTTGGAAACACT-

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

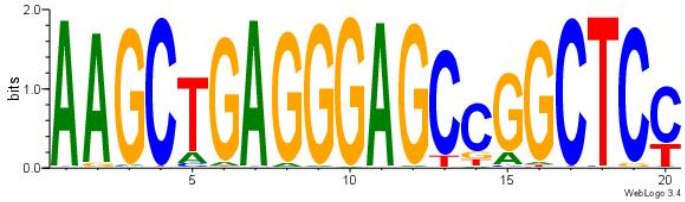

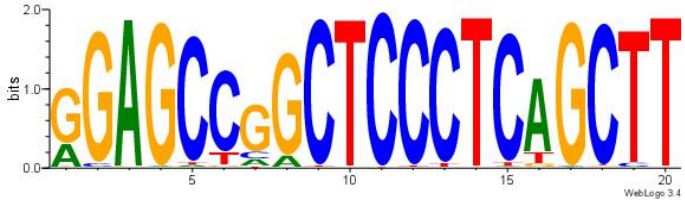

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.134221

Alignment:

```
ACATCMTCTGAAATCTAGG
AGTGTTTCCAAMCTGCT--
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

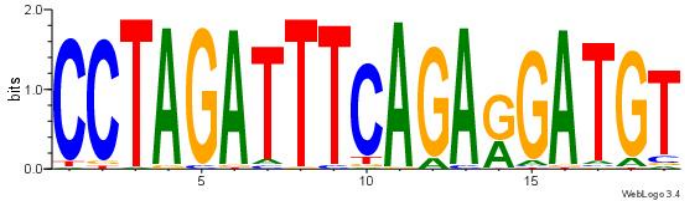

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

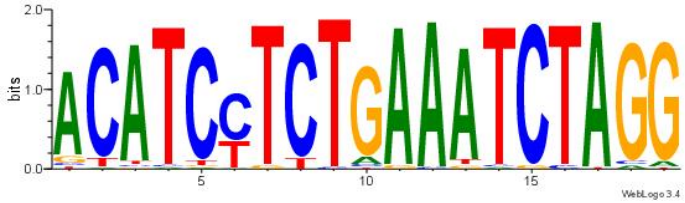

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.134241

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

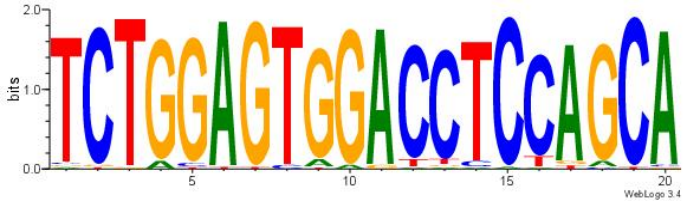

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

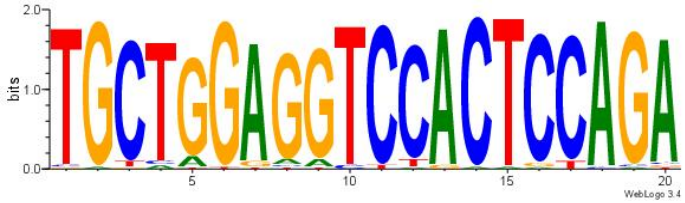

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.134375

Alignment:
GACTGGCAGGCAGCTCCACC
---AGCAGYTTGGAAACACT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

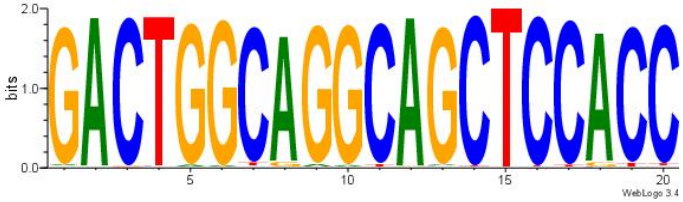

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

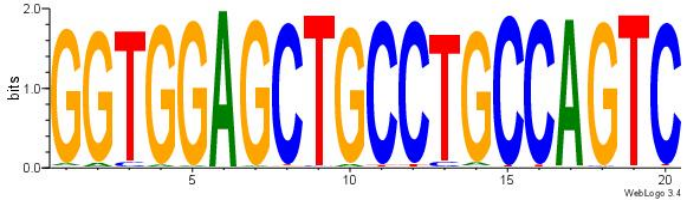

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.135078

Alignment:
AATTAAAAGACACAGACTG
-AGCAGYTTGGAAACACT-

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

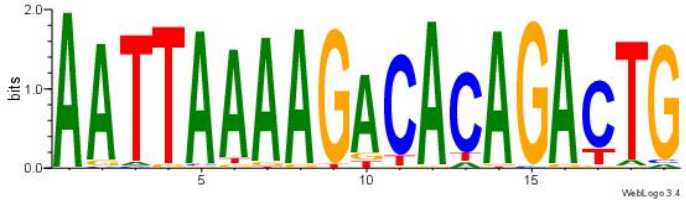

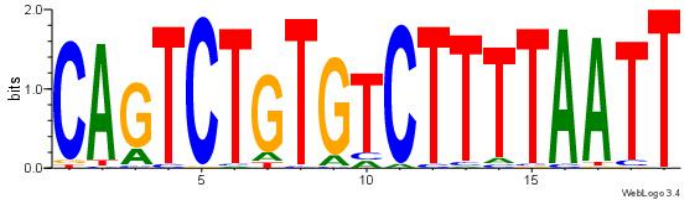

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.135262

Alignment:

```
CTGACTGGGAGACACCTCCC
---AGTGTTTCCAAMCTGCT
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

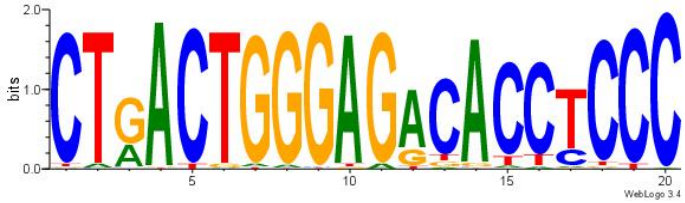

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

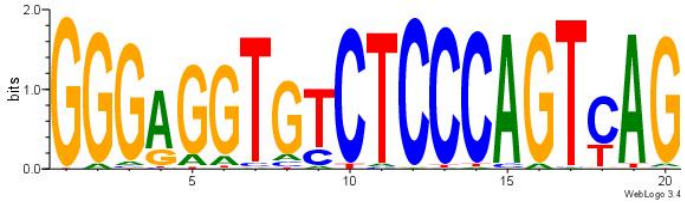

Dataset #: 1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.135373

Alignment:

```
AGGGCCTTTGCASWTGC
AGCAGYTTGGAAACACT
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

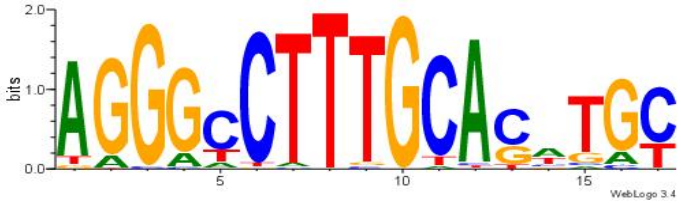

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

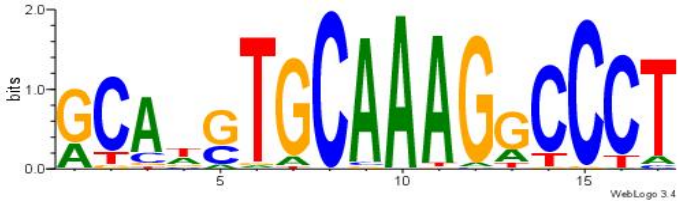

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.135439

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGTGTTTCCAAMCTGCT---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

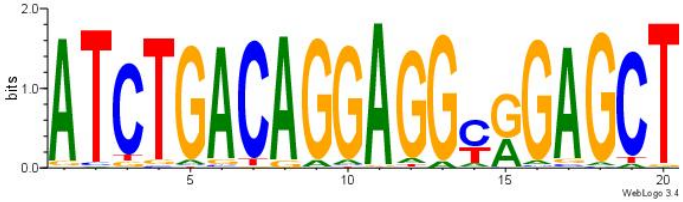

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

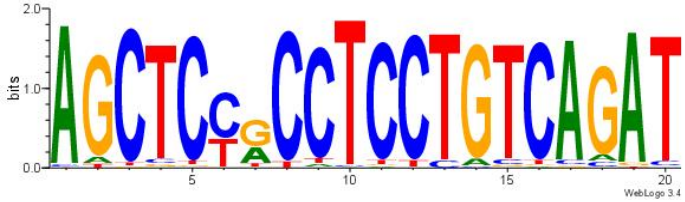

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.135502

Alignment:
HAGTGGKATTGCTGGATCAT
AGTGTTTCCAAMCTGCT---

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

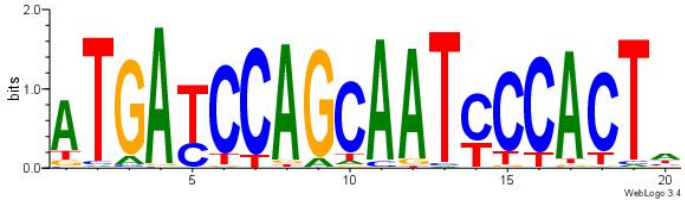

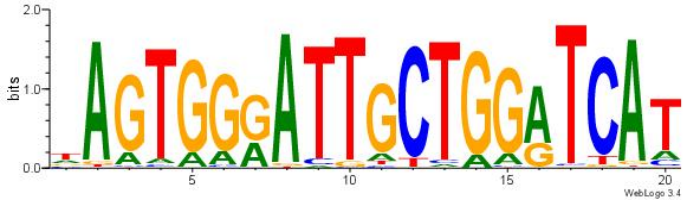

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.135593

Alignment:

```
CTCATTTAATCCTCACAAC
--AGCAGYTTGGAAACACT
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

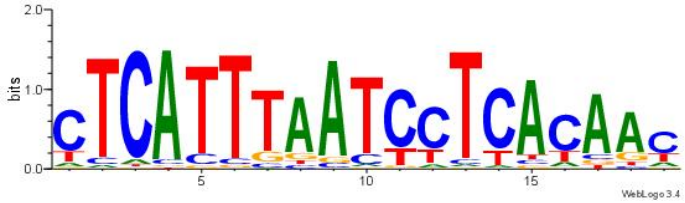

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

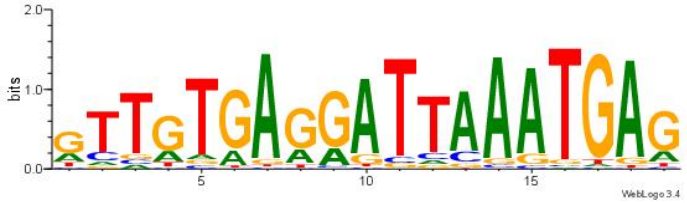

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.136992

Alignment:

```
TAATTTTATGTGTCAACTTG
-AGTGTTTCCAAMCTGCT--
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

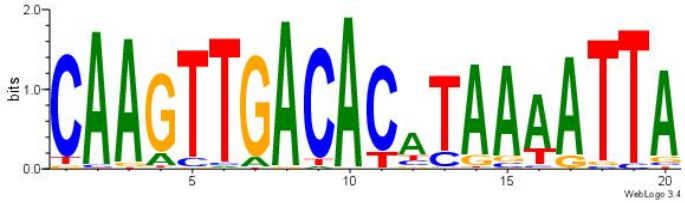

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

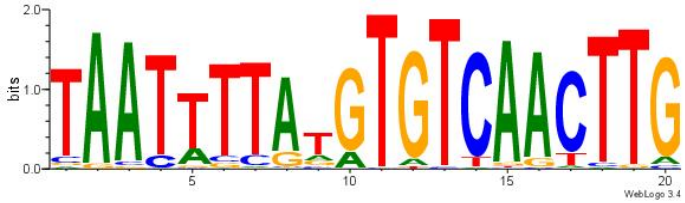

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.137396

Alignment:
TGTGTGTGTGTKTGTGTGT
AGTGTTTCCAAMCTGCT--

Original motif Consensus sequence: ACACACAYACACACACACA

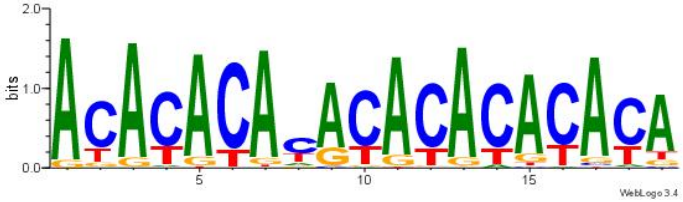

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

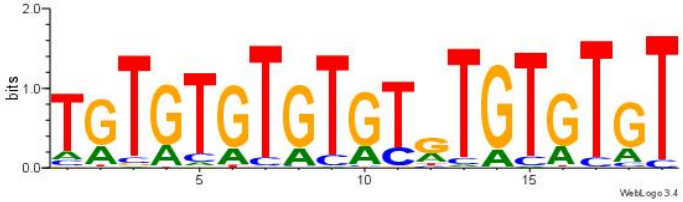

Dataset #: 1 Motif ID: 305 Motif name: Motif 305

Original motif Consensus sequence: AATGACCAATTGAGAGC

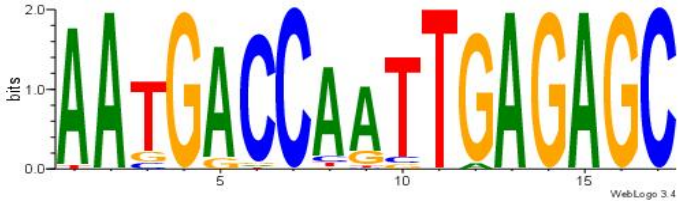

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

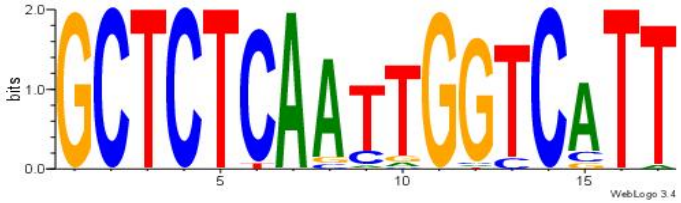

Best Matches for Motif ID 305 (Highest to Lowest)

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0848872

Alignment:

```
GTTTAACCATTGAGGGCCAG
AATGACCAATTGAGAGC---
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

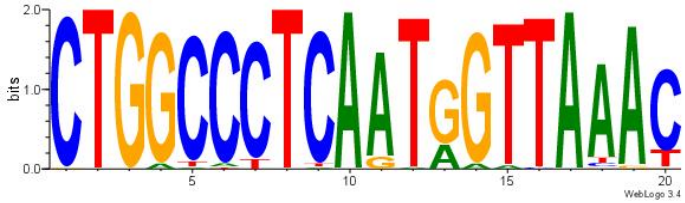

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

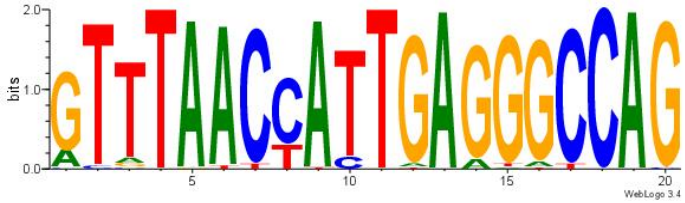

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0979755

Alignment:

ATTGATMKCCAGGGTTGATT
---GCTCTCAATTGGTCATT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

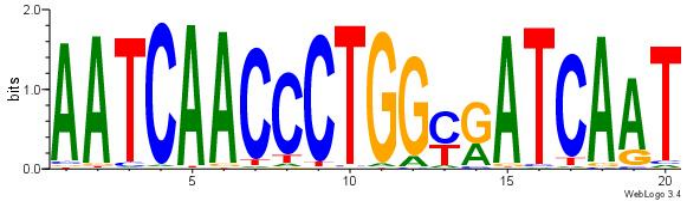

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

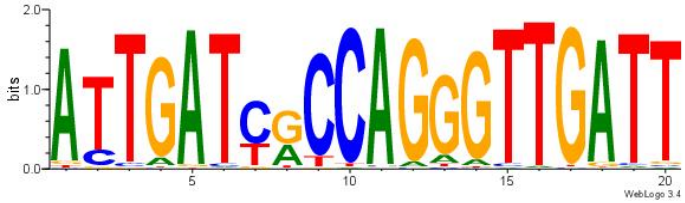

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.101217

Alignment:
AAATTAGGCCAATTAATAAC
---AATGACCAATTGAGAGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

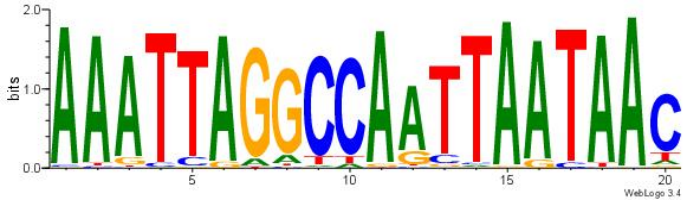

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.103313

Alignment:

```
ATCTCASAAATCACCACTA
-GCTCTCAATTGGTCATT-
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

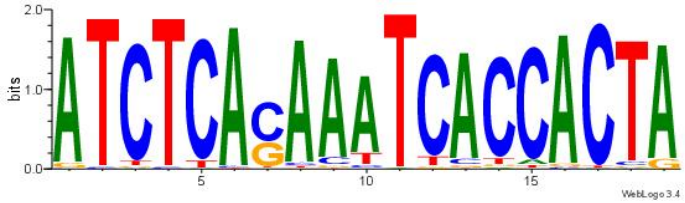

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

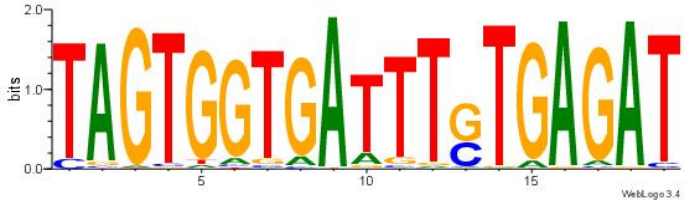

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.106625

Alignment:

```
TACCTGAGACTGGGTAATTT
--GCTCTCAATTGGTCATT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

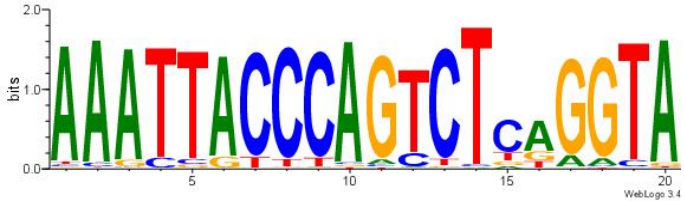

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

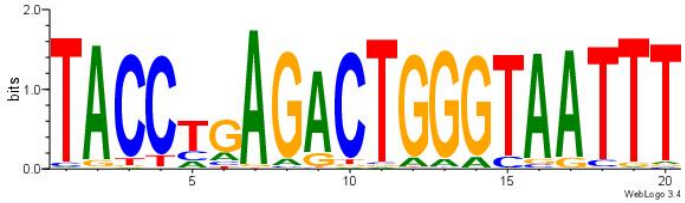

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.108389

Alignment:
CATTTCCAWCTGAGGTAC
AATGACCAATTGAGAGC-

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

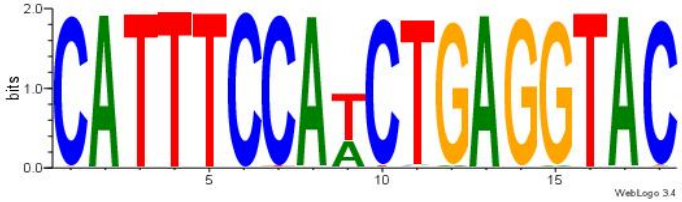

Reverse complement motif Consensus sequence:
GTACCTCAGWTGGAAATG

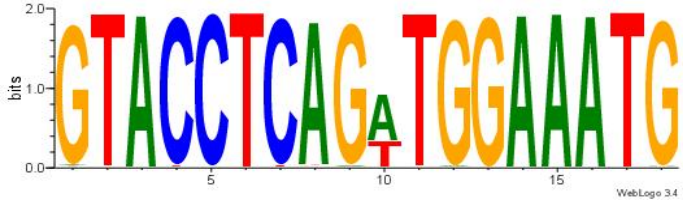

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.109097

Alignment:
ACAGGCTTTGTGTGAGCA
AATGACCAATTGAGAGC-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence:
TGCTCACACAAAGCCTGT

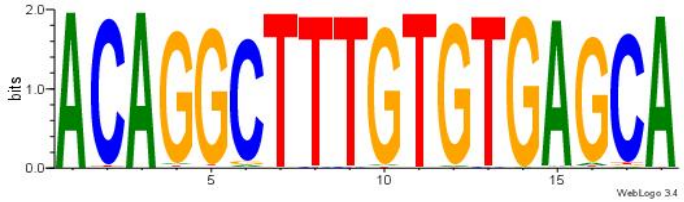

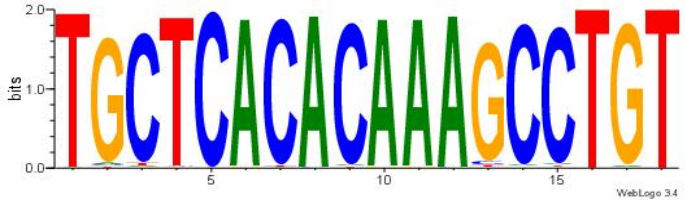

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.111761

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-AATGACCAATTGAGAGC--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

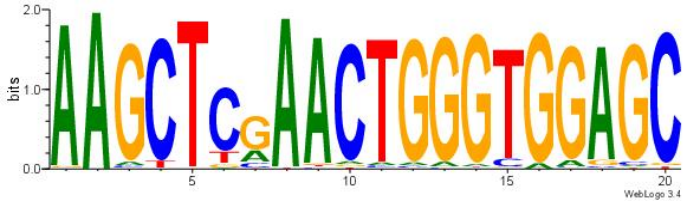

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

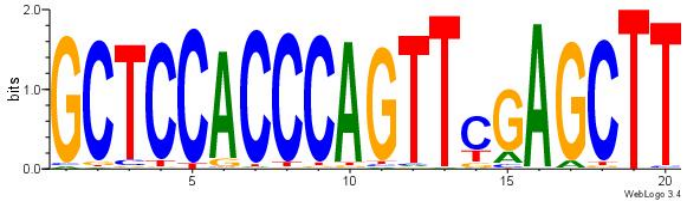

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.113942

Alignment:

```
AAGTCTCCCAATTACAACT
-AATGACCAATTGAGAGC-
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

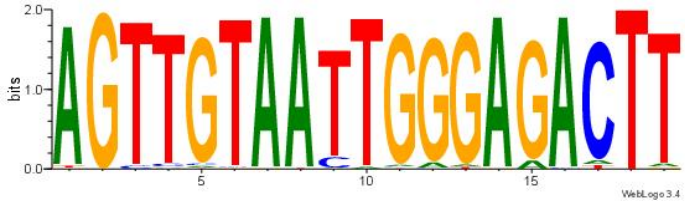

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

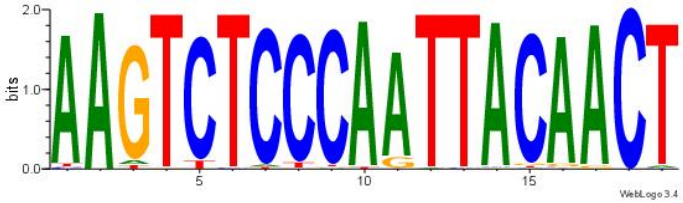

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.116474

Alignment:
AAGGAACAAACTCCRGACAC
AATGACCAATTGAGAGC---

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

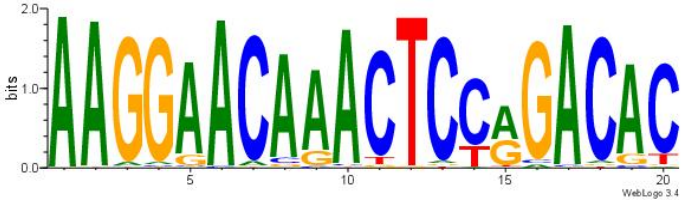

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

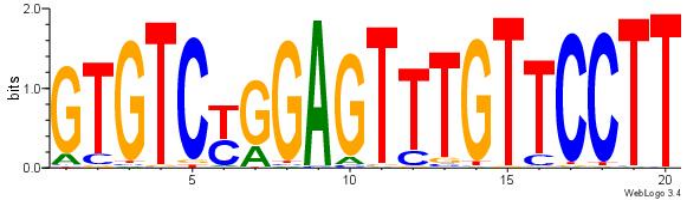

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.116574

Alignment:
ATGGCTGAATAKTATTCCAT
---GCTCTCAATTGGTCATT

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

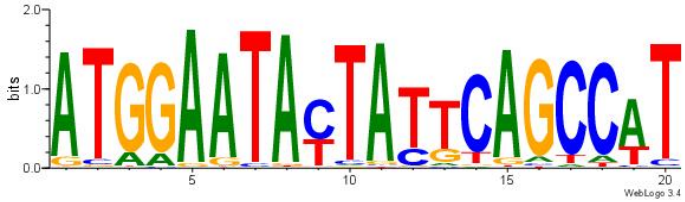

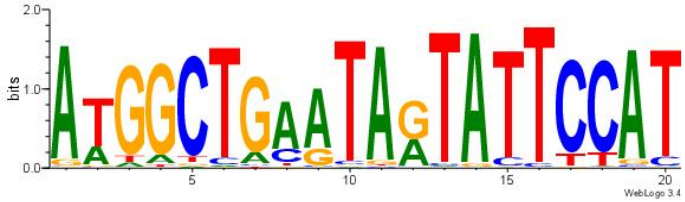

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.11672

Alignment:

```
TYTGTCMTTTTGTGACTGGC
GCTCTCAATTGGTCATT---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

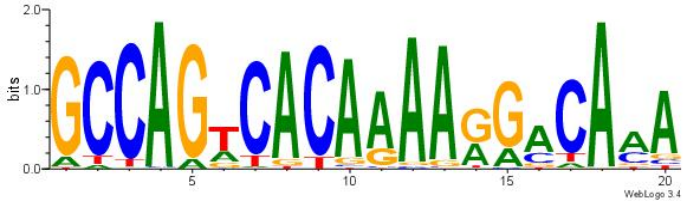

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

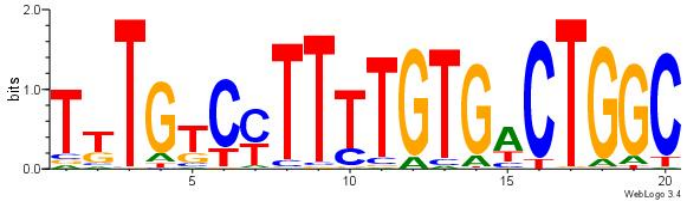

Dataset #: 1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.117452

Alignment:

```
AAAGTGCCGAGAKTGCAGC
--AATGACCAATTGAGAGC
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

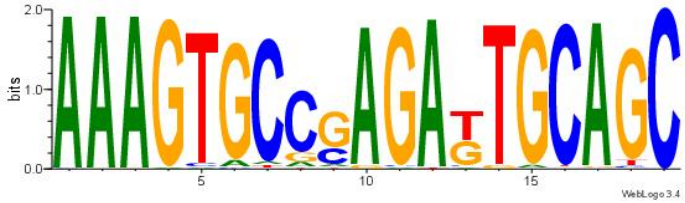

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

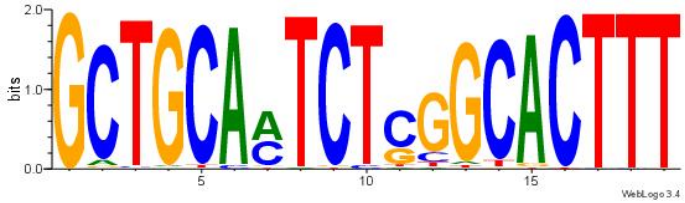

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.117578

Alignment:
TCTCTCTCTCTCTCTCTCTC
--GCTCTCAATTGGTCATT-

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

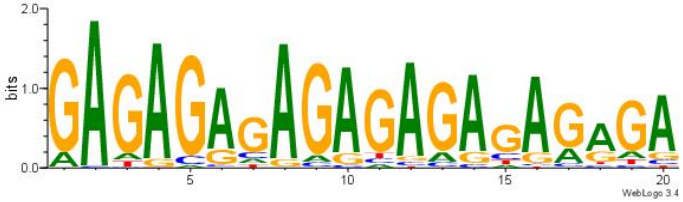

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

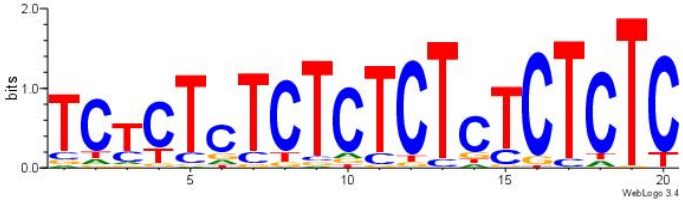

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.118239

Alignment:
AGAGCCAAATCATGARTGAA
AATGACCAATTGAGAGC---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

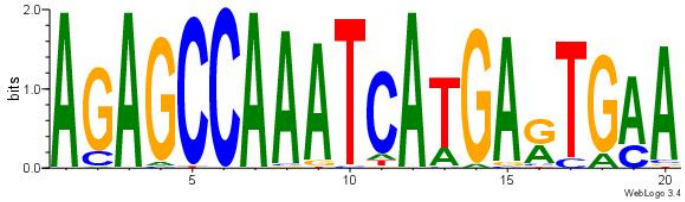

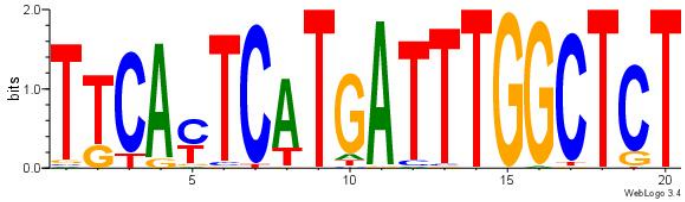

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.11876

Alignment:

```
CAAGCGCCAGCTCATGTC
-AATGACCAATTGAGAGC
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

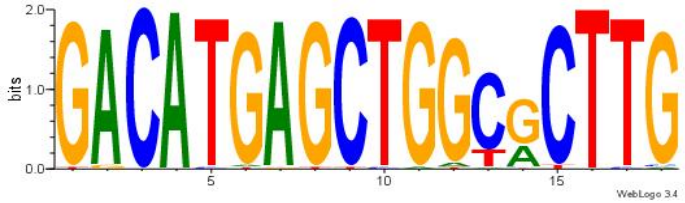

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

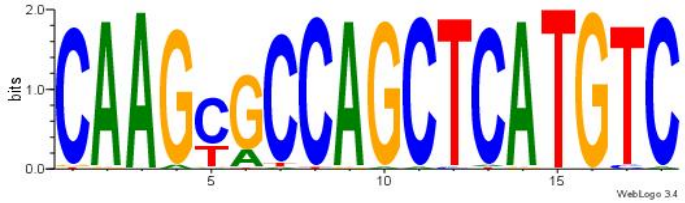

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.122385

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
---GCTCTCAATTGGTCATT
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

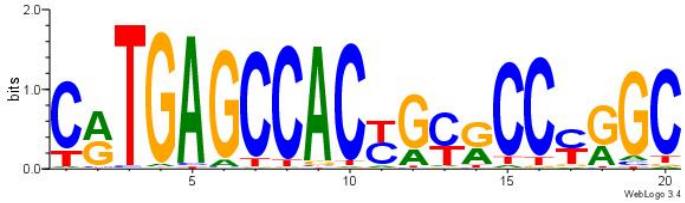

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

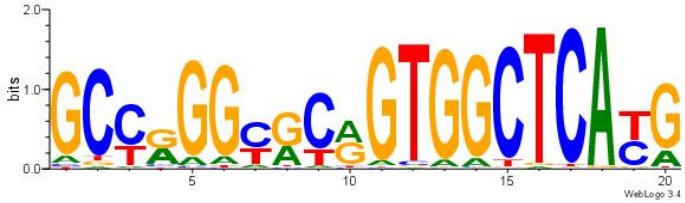

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.122443

Alignment:
AGCTCCCAGCGTGAGCGACG
--GCTCTCAATTGGTCATT-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

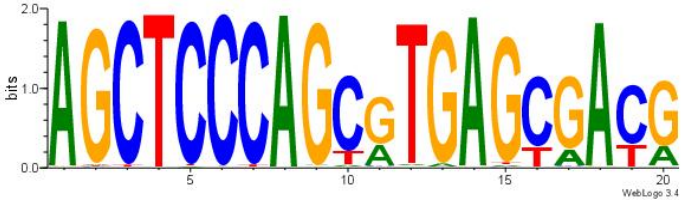

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

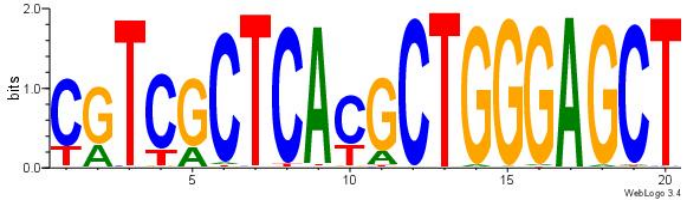

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.122786

Alignment:
AGAGCTCTGGCTGGCATCT
-GCTCTCAATTGGTCATT-

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

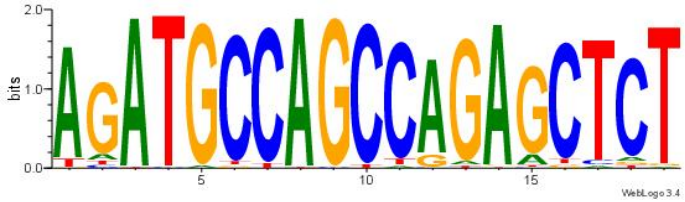

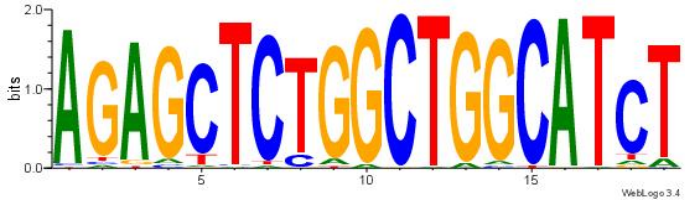

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.122889

Alignment:

```
CTGGGCRACAGAGYRAGACY
---AATGACCAATTGAGAGC
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

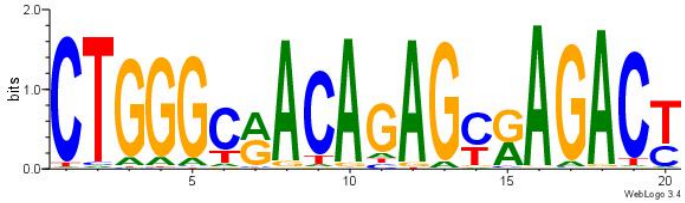

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

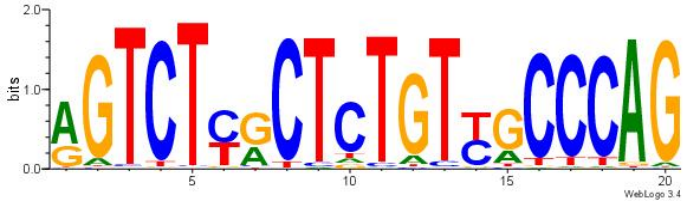

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.122998

Alignment:

```
GAATACCTCCTGAAGGACCT
---AATGACCAATTGAGAGC
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

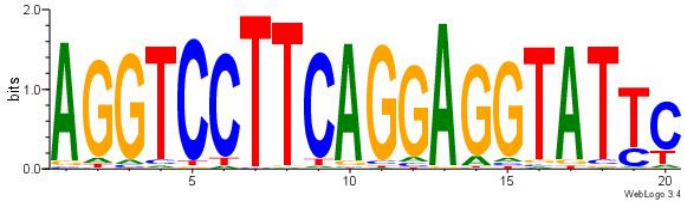

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

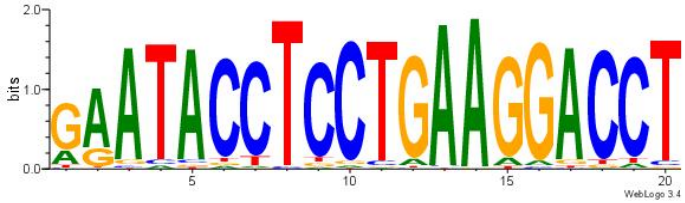

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.123442

Alignment:
CCTTGGCCAGCCCAGAAAG
-AATGACCAATTGAGAGC-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

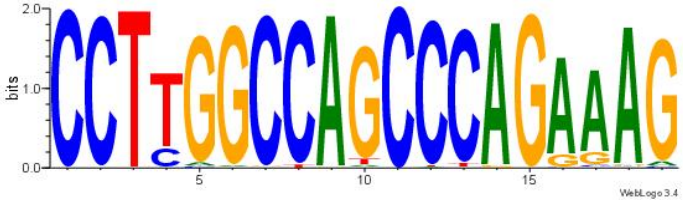

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

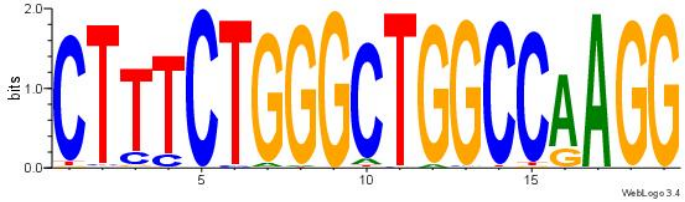

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.125846

Alignment:
GGTGCCCCTCTGGGACRAA
AATGACCAATTGAGAGC--

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

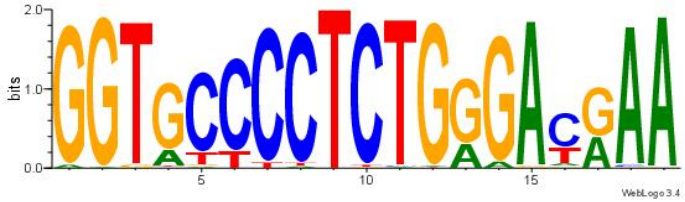

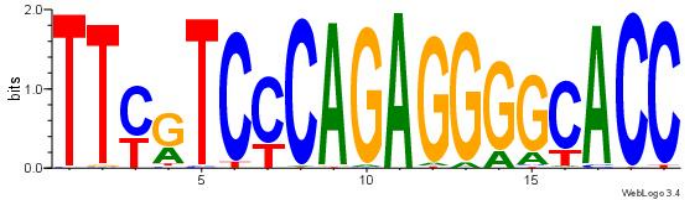

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.126458

Alignment:

```
GTAACACTCACCGCGARGGT
GCTCTCAATTGGTCATT---
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

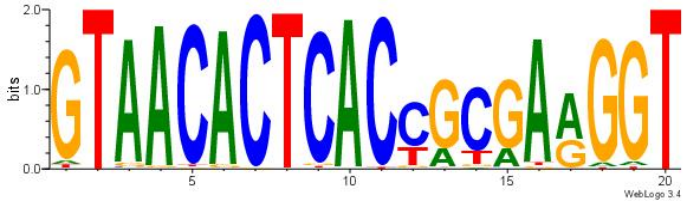

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

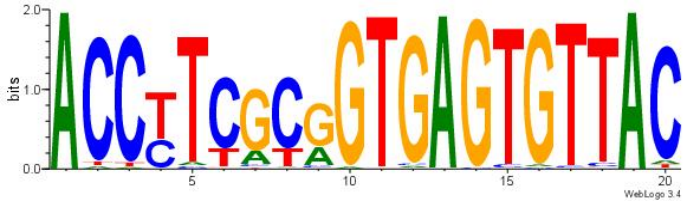

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.12702

Alignment:

```
GGATCCACTGGGTGAAGCCA
---GCTCTCAATTGGTCATT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

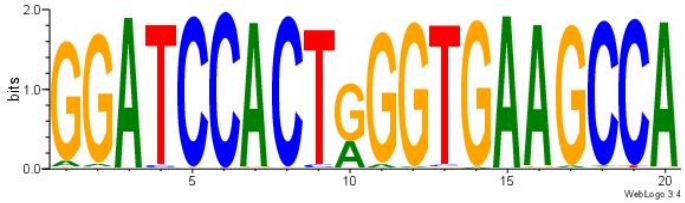

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

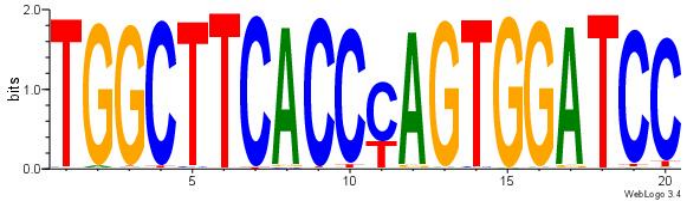

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.127069

Alignment:
CAAGGGTATAYGAGTAGCTG
-AATGACCAATTGAGAGC--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

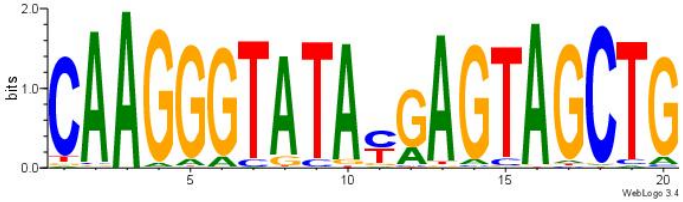

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

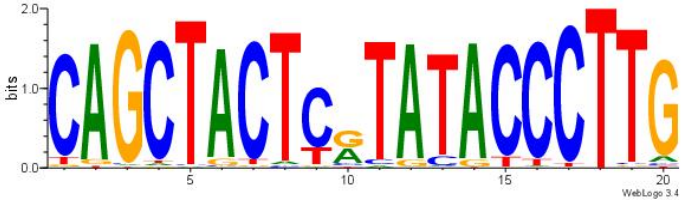

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.12814

Alignment:
AAAAGTCCACAGTCCAAAGT
---AATGACCAATTGAGAGC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

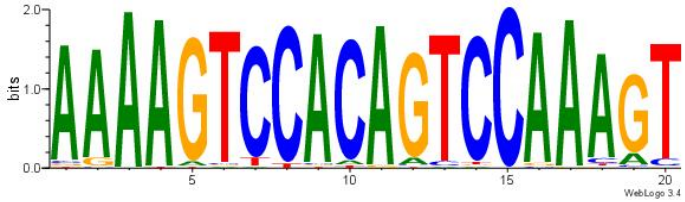

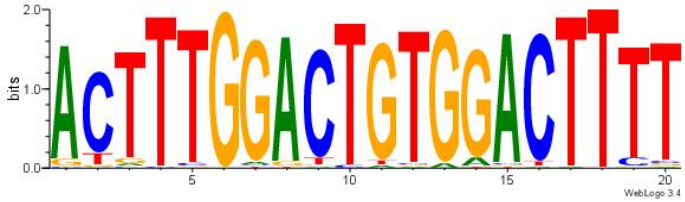

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.128512

Alignment:

```
ATGTAACCAAAYACCACCTG
-AATGACCAATTGAGAGC--
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

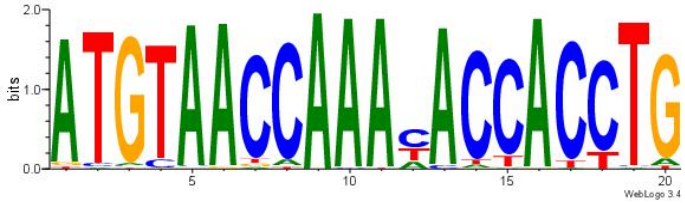

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

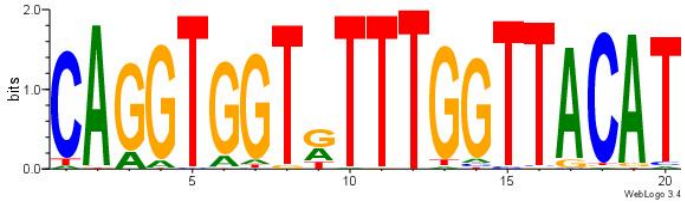

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.128758

Alignment:

```
AAAMAMMKMATGTTCTCACT
---AATGACCAATTGAGAGC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

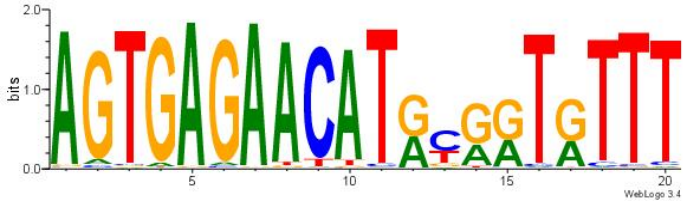

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

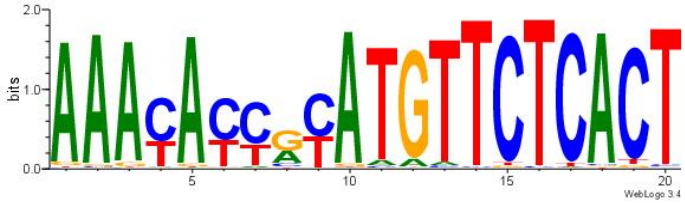

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.12905

Alignment:
AAAATCACAAGCATTCCTAT
-GCTCTCAATTGGTCATT--

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

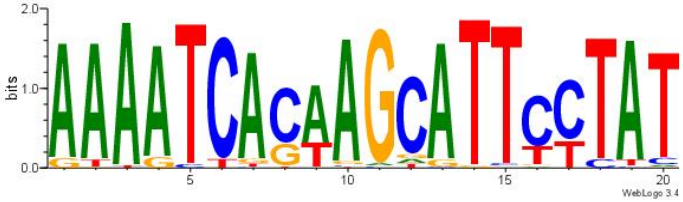

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

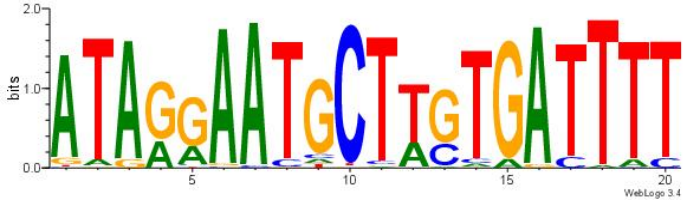

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.129393

Alignment:
AGCTAGAYACAGAGTGC
AATGACCAATTGAGAGC

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

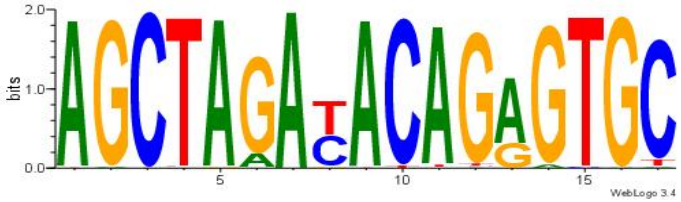

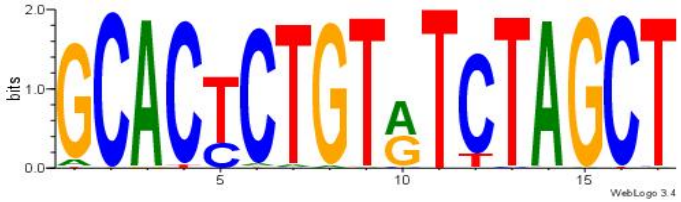

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.129519

Alignment:

```
GATCACGAGGTCAGGAG
AATGACCAATTGAGAGC
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

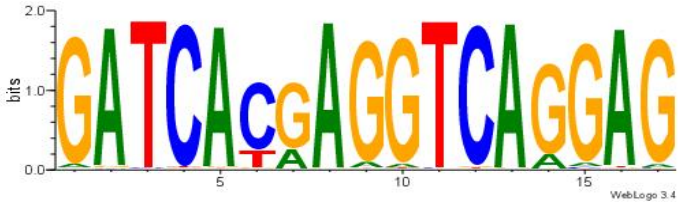

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

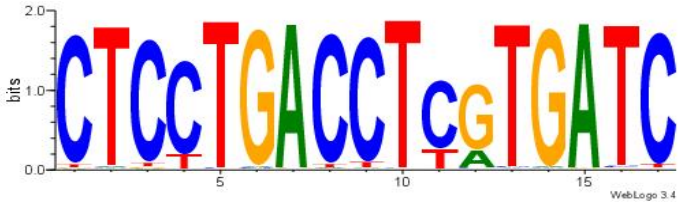

Dataset #: 1

Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.129873

Alignment:

```
TAMGACCTCAGGTCCTCAG
--AATGACCAATTGAGAGC
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

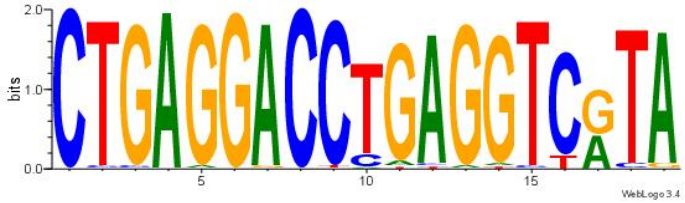

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

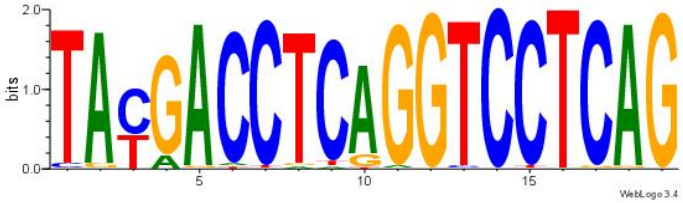

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.129972

Alignment:
ATTGGTGTATTTACAATCCC
AATGACCAATTGAGAGC---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

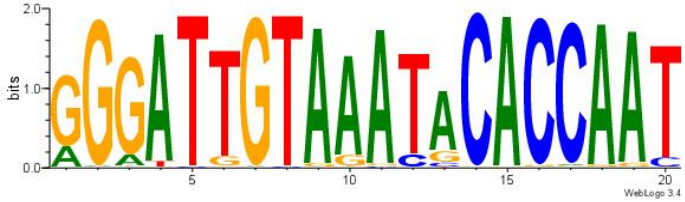

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.129997

Alignment:
GTKTMTATMTACCACATTTT
-GCTCTCAATTGGTCATT--

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

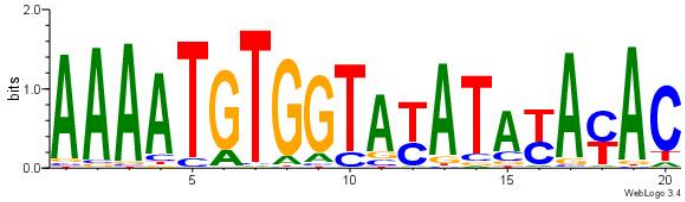

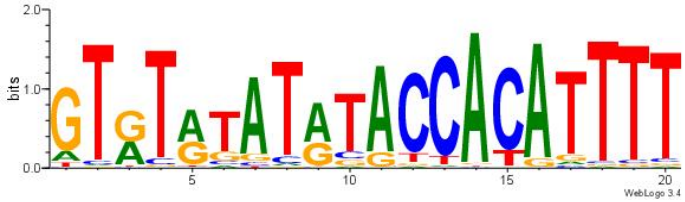

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.130552

Alignment:

```
CCCYAATACTGCGCTTTTC
GCTCTCAATTGGTCATT--
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

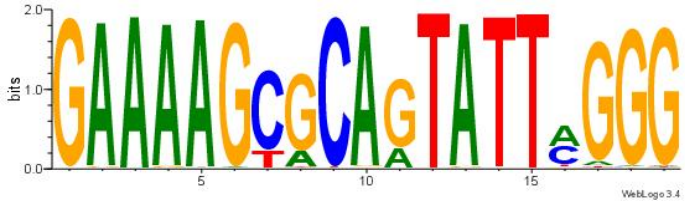

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

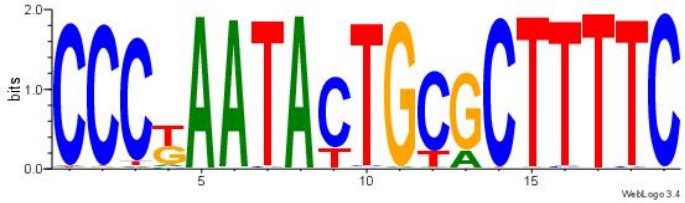

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.131022

Alignment:

```
AACAACASACACTGGGGCCT
-AATGACCAATTGAGAGC--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

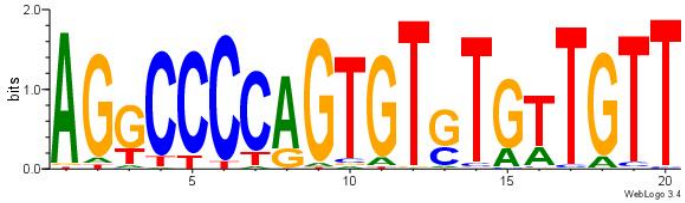

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

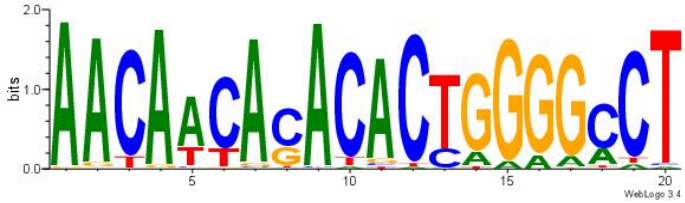

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.131781

Alignment:
AAGTCCAAGATCAAGGTGYY
AATGACCAATTGAGAGC---

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

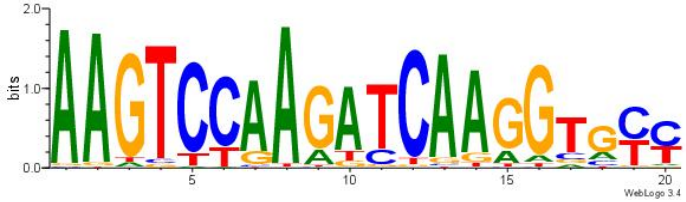

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

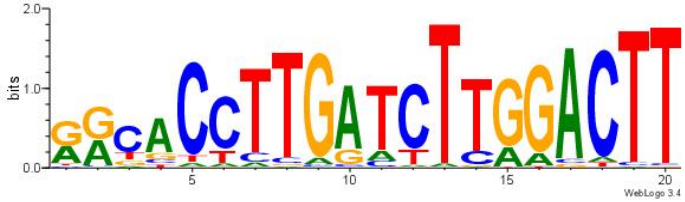

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.133789

Alignment:
GCAAAKGACATGATYTCATT
---AATGACCAATTGAGAGC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

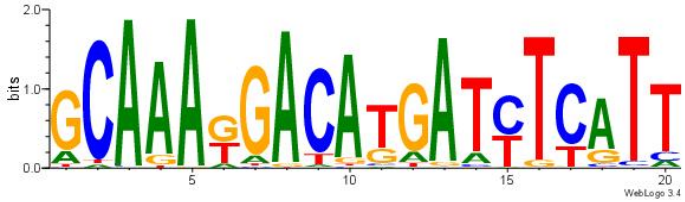

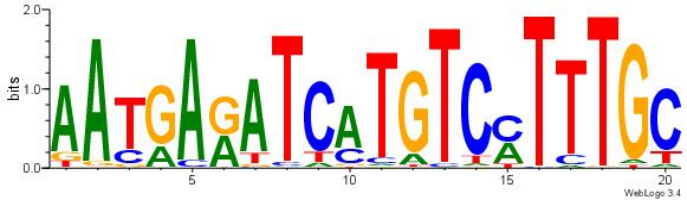

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.13476

Alignment:

```
ATGGACAYTTRGGTTGHTTC
-GCTCTCAATTGGTCATT--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

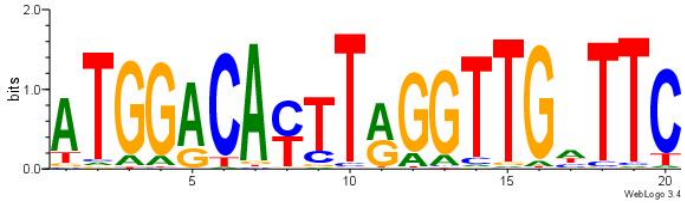

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

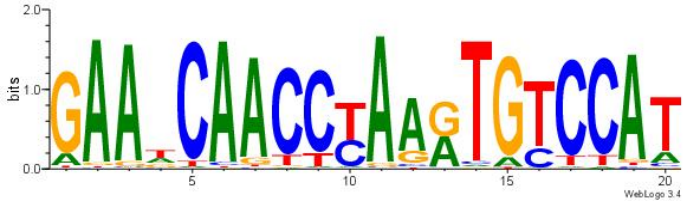

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.13495

Alignment:

```
CCCACGCCCACCCGGAACT
AATGACCAATTGAGAGC--
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

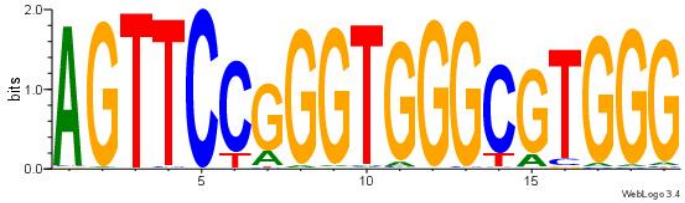

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

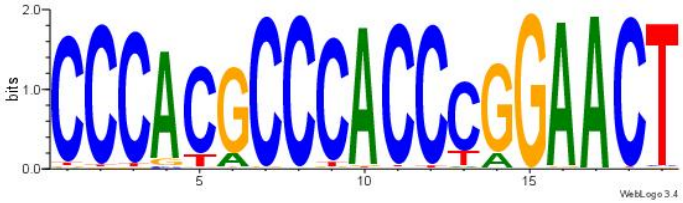

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.135359

Alignment:
CGAGCCTCCCCGAYGAGCGC
---AATGACCAATTGAGAGC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

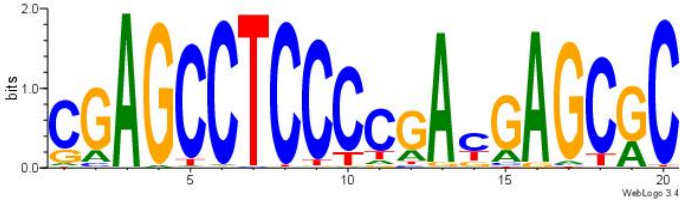

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

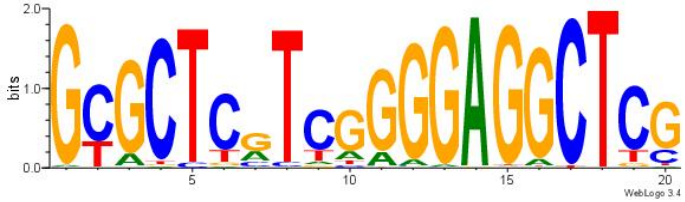

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.135529

Alignment:
AGCTGTGAGAAGAGGGCCAC
AATGACCAATTGAGAGC---

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

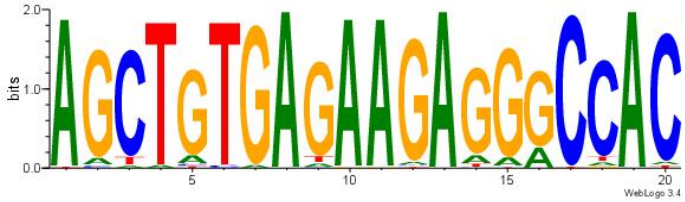

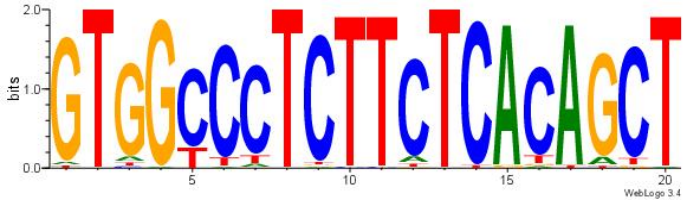

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.135537

Alignment:

```
ACATCCCAGACGATGGGCG
AATGACCAATTGAGAGC--
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

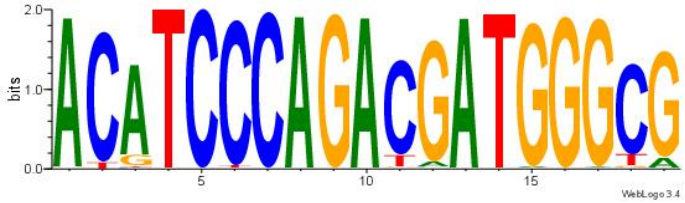

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

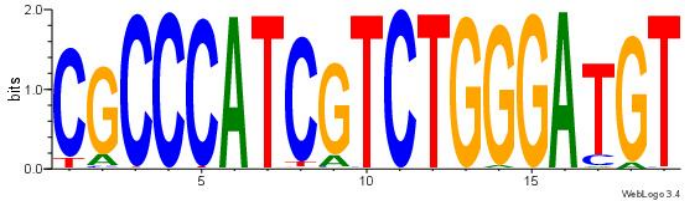

Dataset #:	1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.135631

Alignment:

```
CACCAGGAGATTATATCCCR
AATGACCAATTGAGAGC---
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

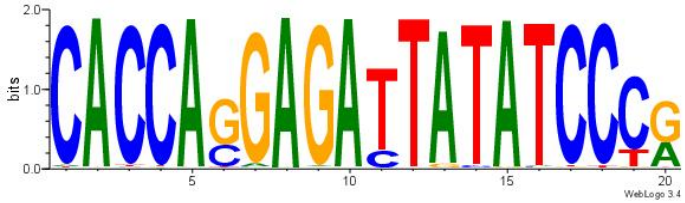

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

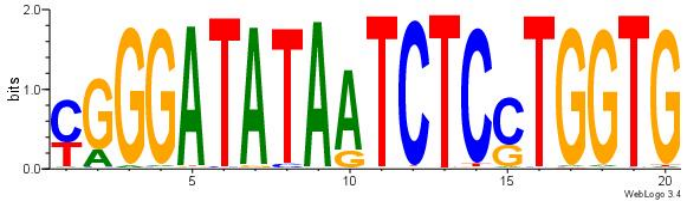

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.135646

Alignment:
CCGCTGCACTGTGGGAGCCC
-AATGACCAATTGAGAGC--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

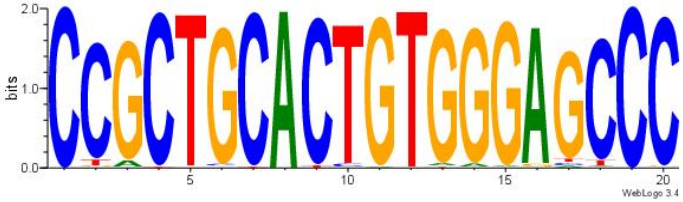

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

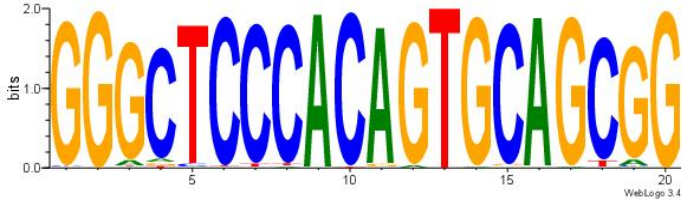

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.136087

Alignment:
CCCATGCAAGTCYRAAATCC
--AATGACCAATTGAGAGC-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

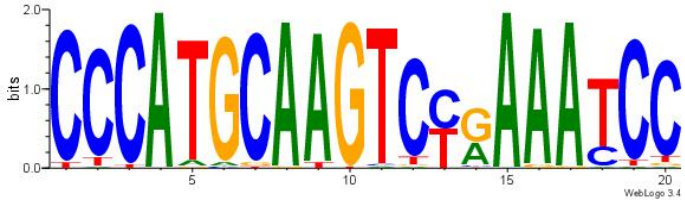

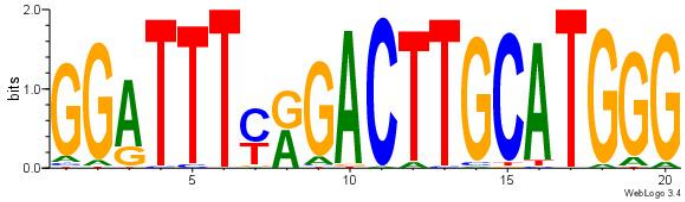

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.136714

Alignment:

```
GCCTCTCCCTCCACACCTCC
--GCTCTCAATTGGTCATT-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

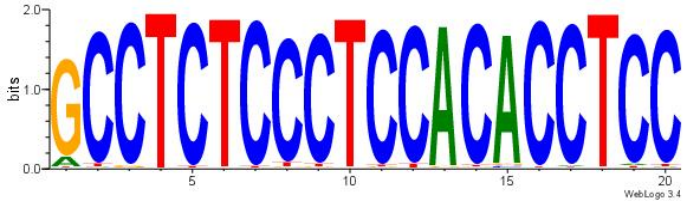

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

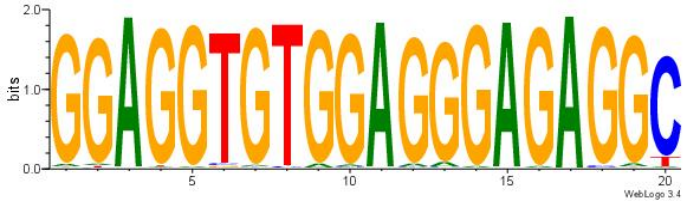

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.136861

Alignment:

```
CAAGTTGACACATAAAATTA
--AATGACCAATTGAGAGC-
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

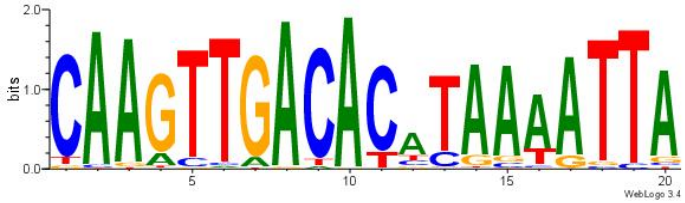

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

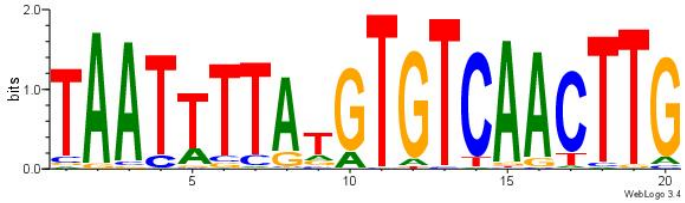

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.137102

Alignment:
ACCCAATWTGTAGTCTTTTA
-GCTCTCAATTGGTCATT--

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

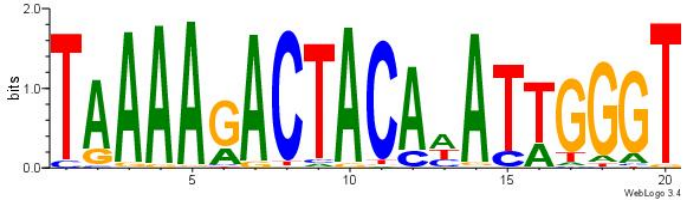

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

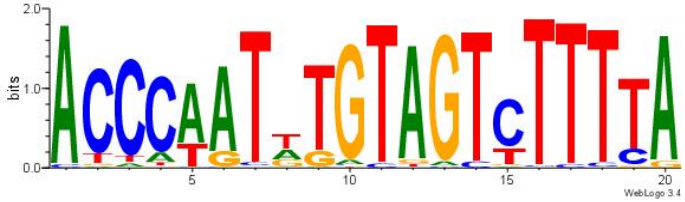

Dataset #: 1 Motif ID: 306 Motif name: Motif 306

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

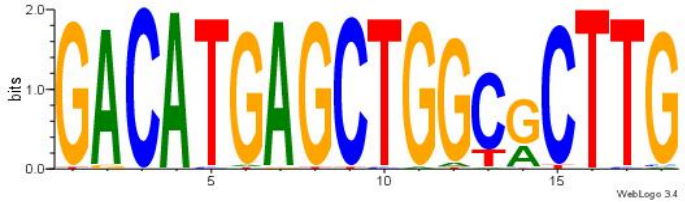

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

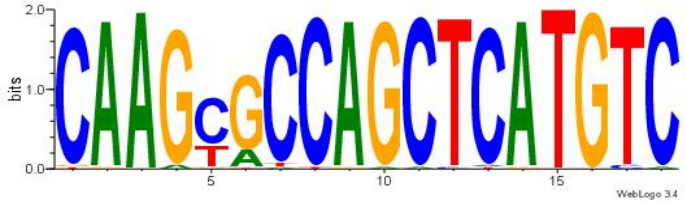

Best Matches for Motif ID 306 (Highest to Lowest)

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.102628

Alignment:

```
AAAGCTGGAGCTATTATCTA
CAAGCGCCAGCTCATGTC--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

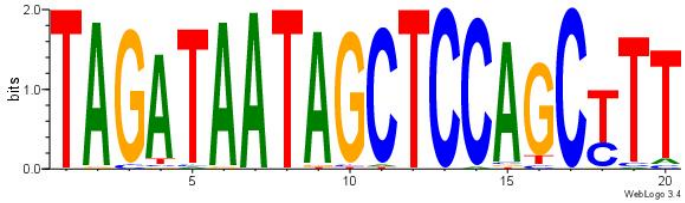

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

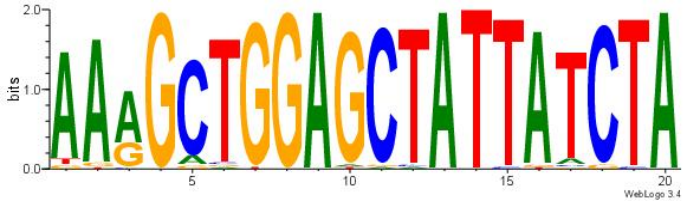

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.107908

Alignment:

GACAGGAGATTAACACTGAG
--GACATGAGCTGGCGCTTG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

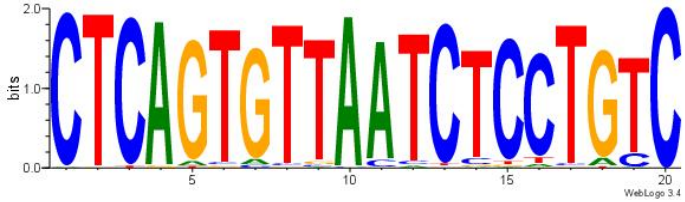

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

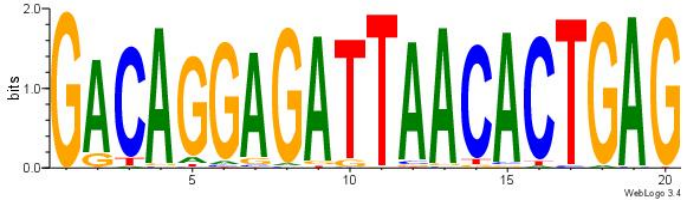

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.118321

Alignment:
AAGGAACAAACTCCRGACAC
--CAAGCGCCAGCTCATGTC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

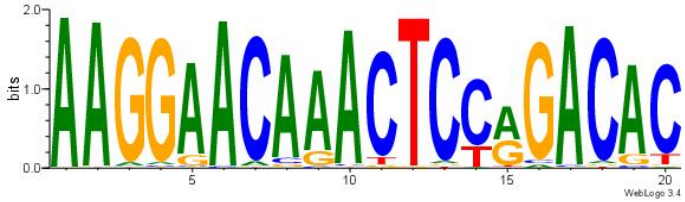

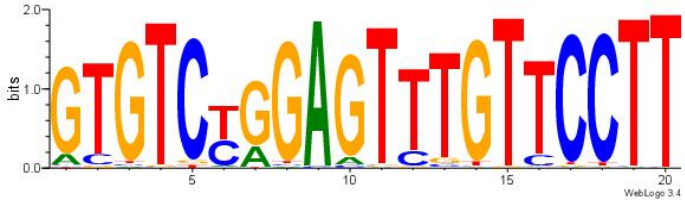

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.118931

Alignment:

```
ACACATCACAAAGCAGTTTC
-GACATGAGCTGGCGCTTG-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

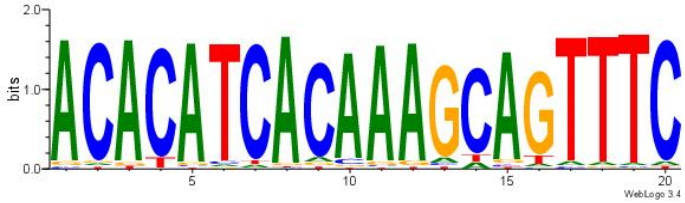

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

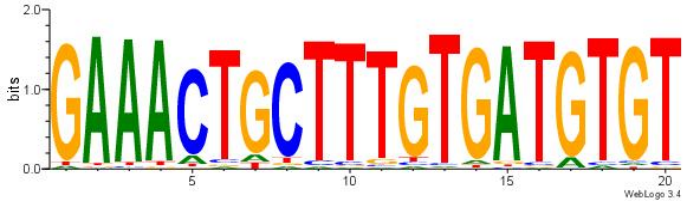

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.119654

Alignment:

```
CATTTGGGAGCCCATTGA
CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

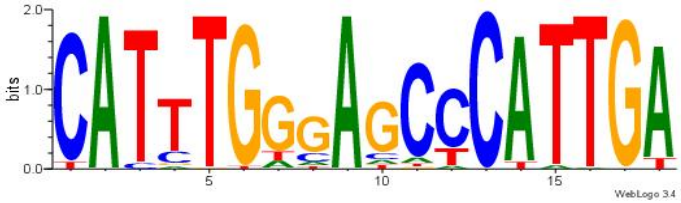

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

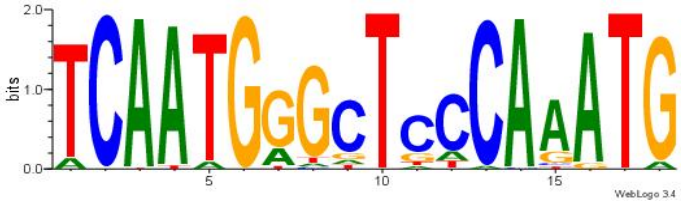

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.119882

Alignment:
TCCAAATGGGAGAAATTGGC
CAAGCGCCAGCTCATGTC--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

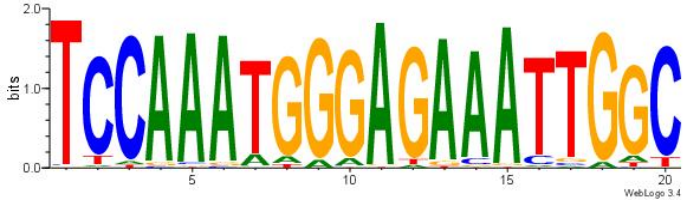

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

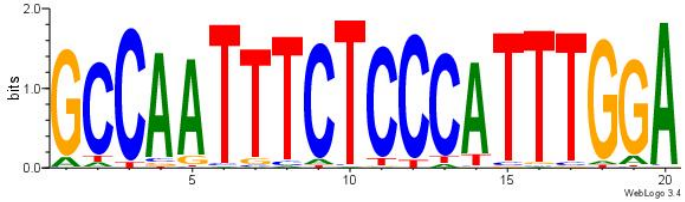

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.122494

Alignment:
CCTTGGCCAGCCCAGAAAG
-CAAGCGCCAGCTCATGTC

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

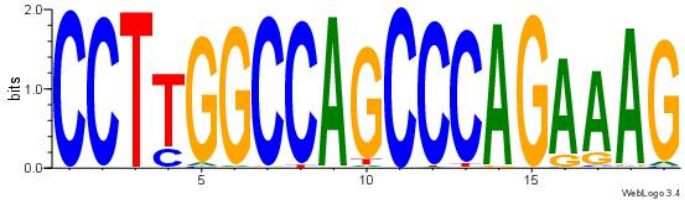

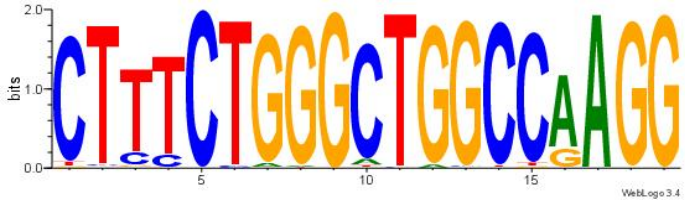

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.123633

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-CAAGCGCCAGCTCATGTC-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

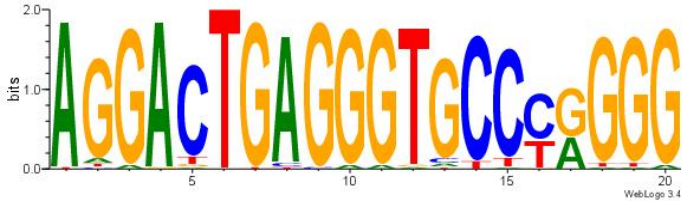

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

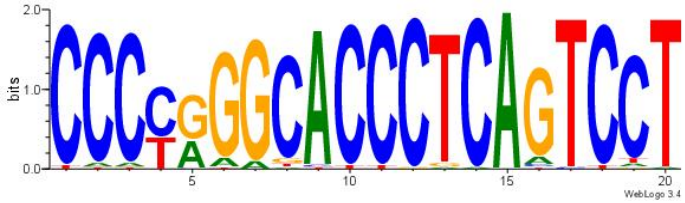

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.124045

Alignment:

```
AGATGCCAGCCAGAGCTCT
-GACATGAGCTGGCGCTTG
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

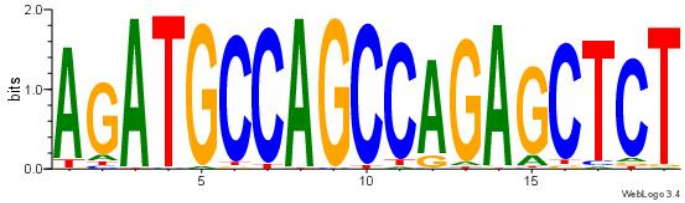

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

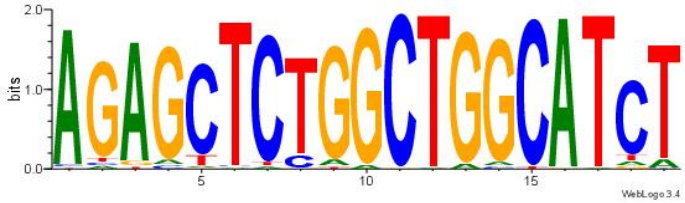

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.126228

Alignment:
CCTGCCATTGCYSAGGCTTG
--GACATGAGCTGGCGCTTG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

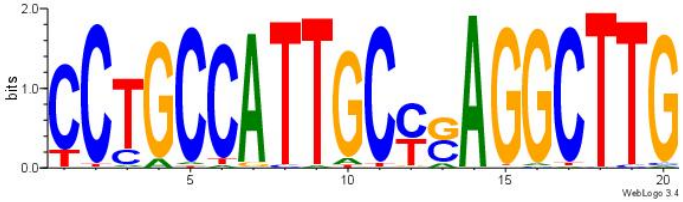

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

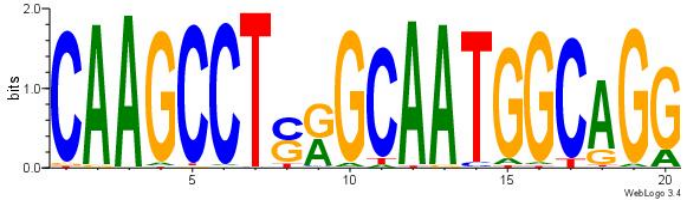

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 18
Similarity score: 0.126283

Alignment:
GAAGGCAGCTAAGGCCCGGY
GACATGAGCTGGCGCTTG--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

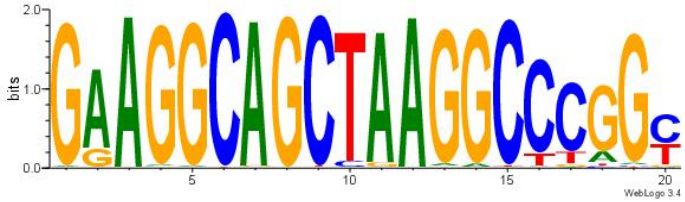

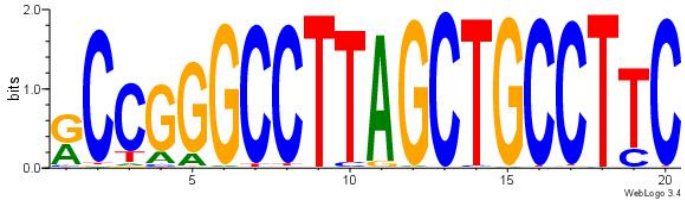

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.127128

Alignment:

```
GCCGGGRAGAGGCGCTCCT
-GACATGAGCTGGCGCTTG
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

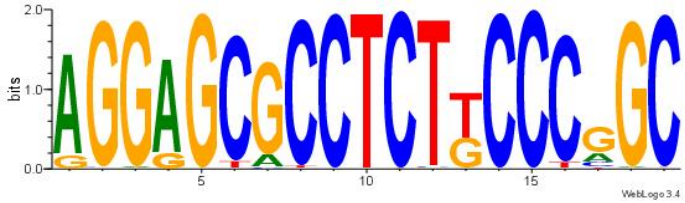

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

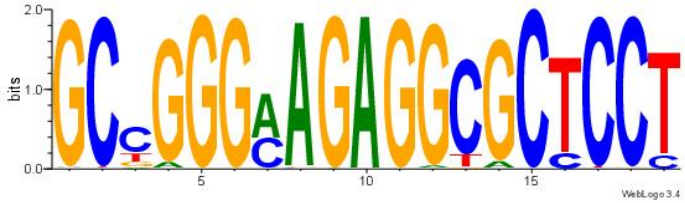

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.127976

Alignment:

```
GCCAGGCAGAGRGKCTCCT
GACATGAGCTGGCGCTTG-
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

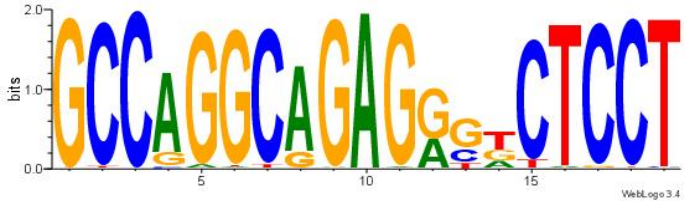

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

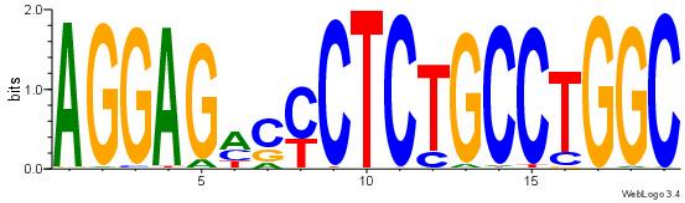

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.130043

Alignment:
AAGCAGGGCGAGGCATTGCC
CAAGCGCCAGCTCATGTC--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

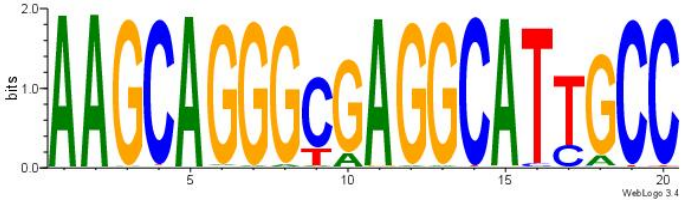

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

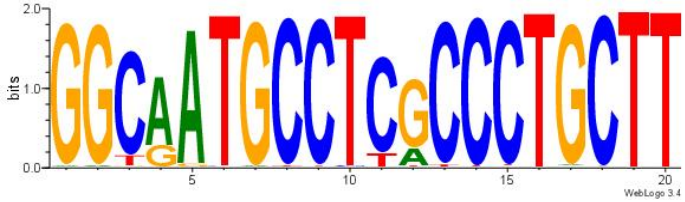

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.130298

Alignment:
CCCYAATACTGCGCTTTTC
-CAAGCGCCAGCTCATGTC

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence:
CCCYAATACTGCGCTTTTC

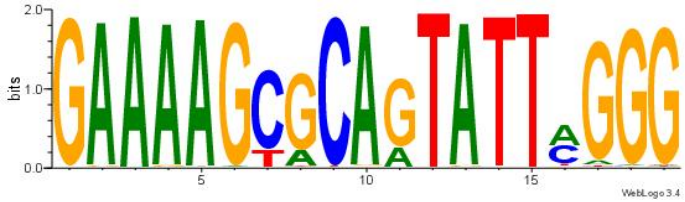

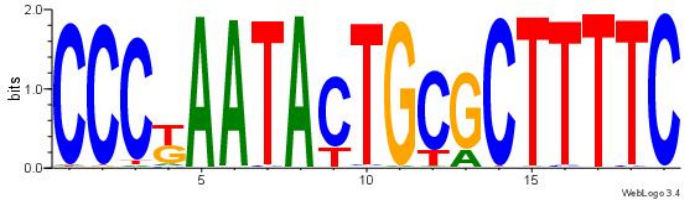

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.130471

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GACATGAGCTGGCGCTTG--
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

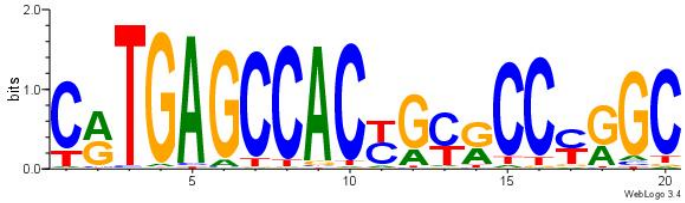

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

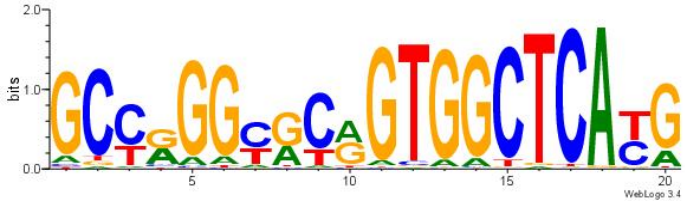

Dataset #:	1

Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.131974

Alignment:

```
ATAAAAACTTGCTGGTTTT
-CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

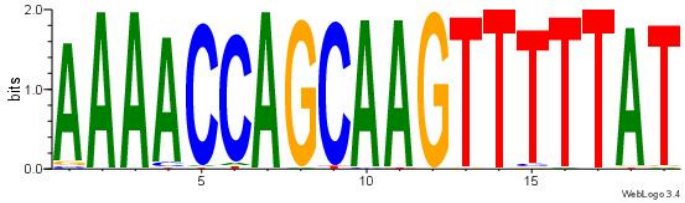

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

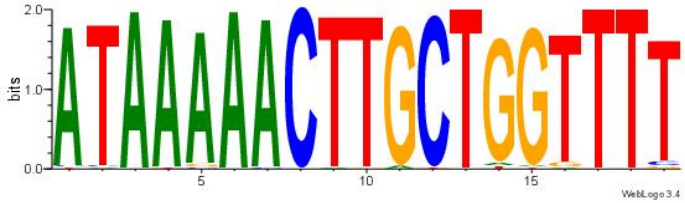

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18

Similarity score: 0.132167

Alignment:
CMTAGYACAGTGCCTGGCAC
CAAGCGCCAGCTCATGTC--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

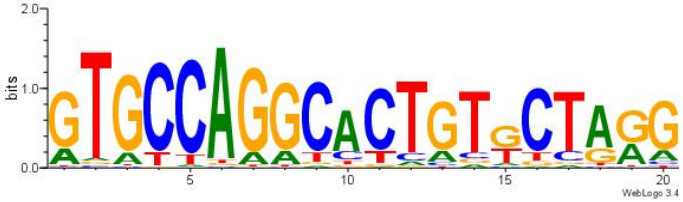

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

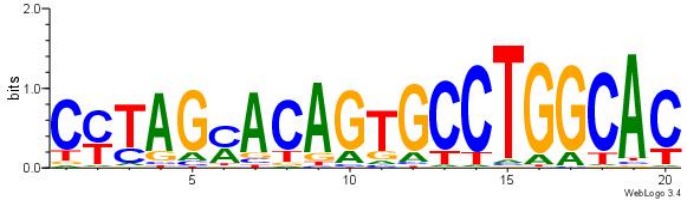

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.132394

Alignment:
AGAAATCGAGCRCAGCGCCG
--CAAGCGCCAGCTCATGTC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

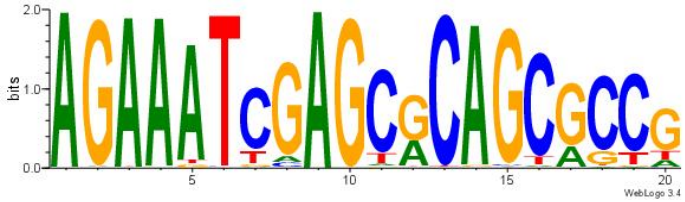

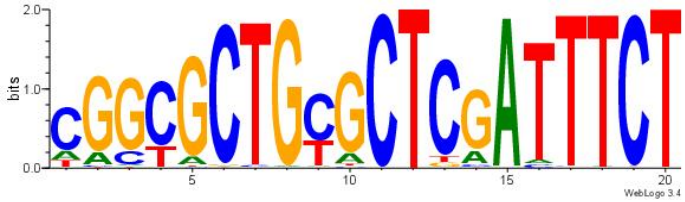

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.132579

Alignment:

```
GCCTCTCCCTCCACACCTCC
-CAAGCGCCAGCTCATGTC-
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

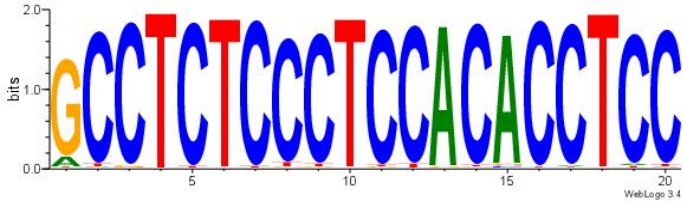

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

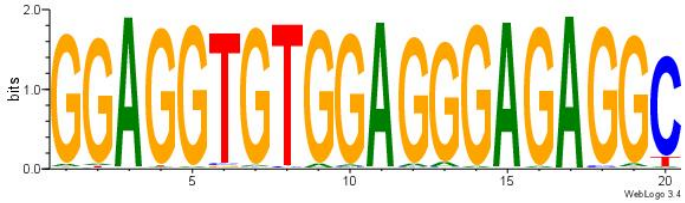

Dataset #:	1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.133876

Alignment:

```
CAACATGGATGRARCTGGAG
GACATGAGCTGGCGCTTG--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

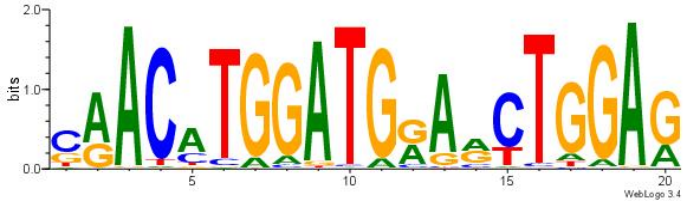

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

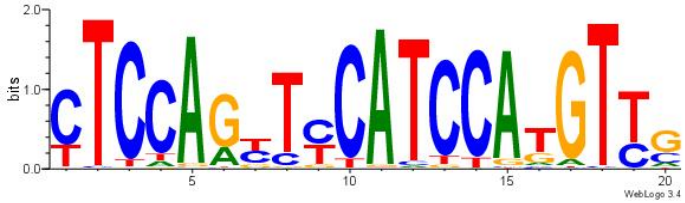

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.134219

Alignment:
GACCTGCAGCCCGCCATG
GACATGAGCTGGCGCTTG

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

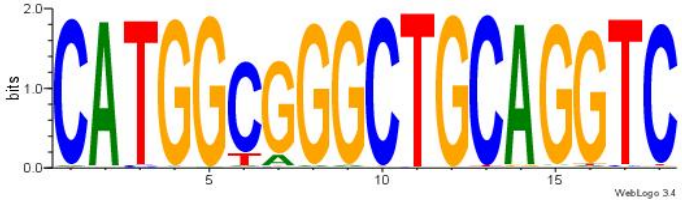

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

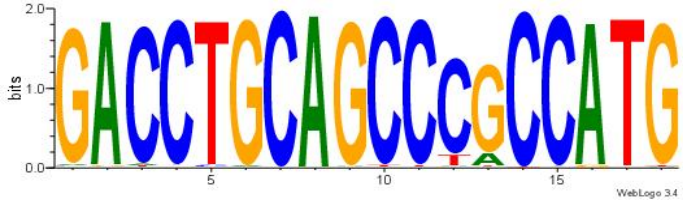

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.13495

Alignment:
GCCTCCTTGAGCTGTGGTGG
-CAAGCGCCAGCTCATGTC-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

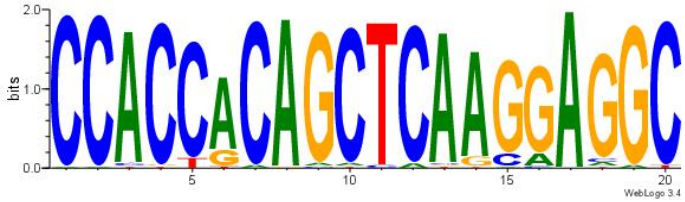

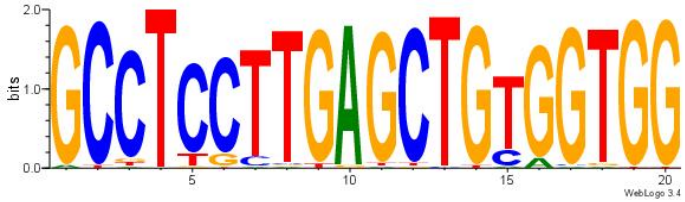

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.135116

Alignment:

```
GCTCCACCCAGTTCGAGCTT
-CAAGCGCCAGCTCATGTC-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

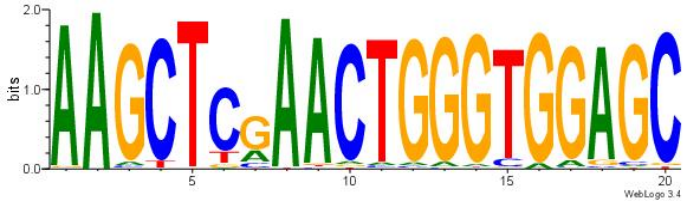

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

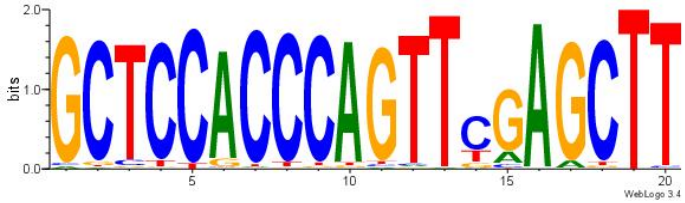

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.136248

Alignment:

```
ATCATTCTTATGCCTTTG
GACATGAGCTGGCGCTTG
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

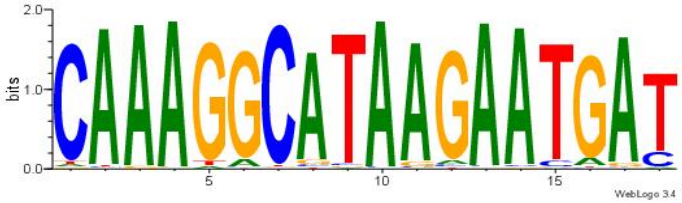

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

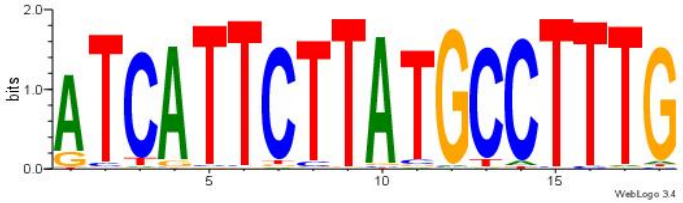

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18

Similarity score: 0.136355

Alignment:
TGGCTTCACCCAGTGGATCC
-GACATGAGCTGGCGCTTG-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

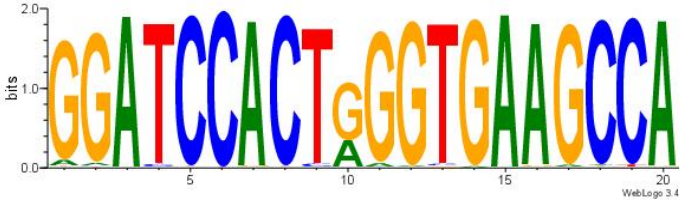

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

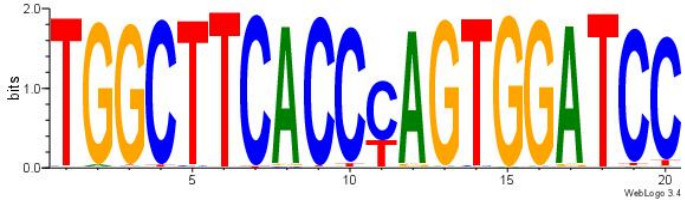

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.136393

Alignment:
MGTCTMKCTCTGTKGCCCAG
-GACATGAGCTGGCGCTTG-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

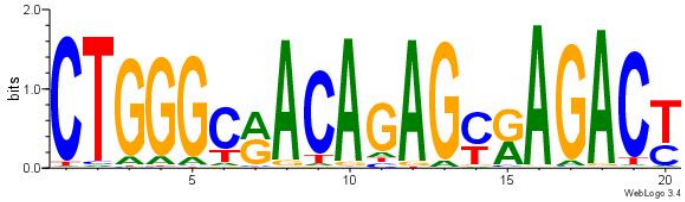

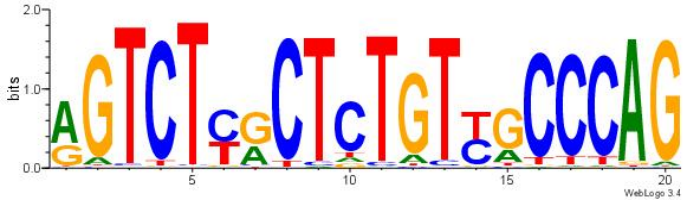

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.136791

Alignment:

```
AGACAGTGGGYGCAGGHCA
-CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

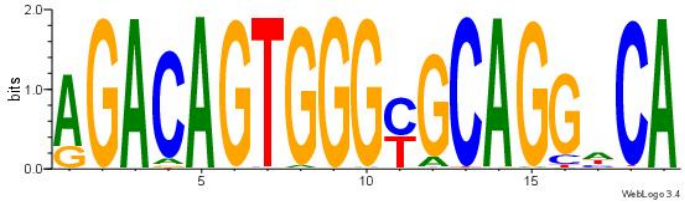

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

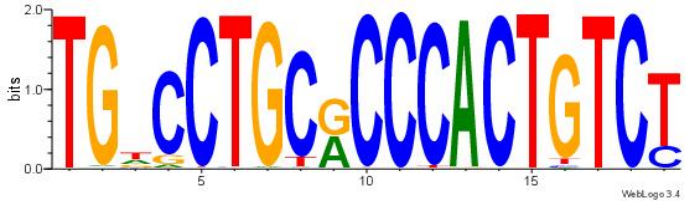

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.136945

Alignment:

```
AATCAACCCTGGYRATCAAT
GACATGAGCTGGCGCTTG--
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

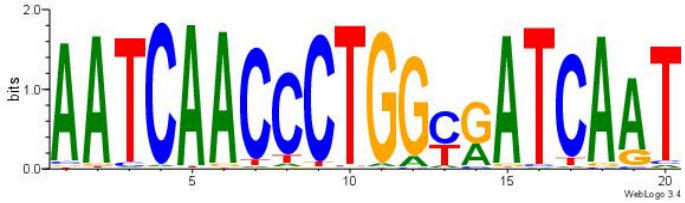

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

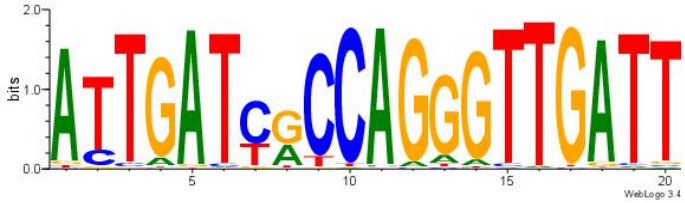

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.136973

Alignment:
ATCRCTTGAGSYCAGGAGKT
--GACATGAGCTGGCGCTTG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

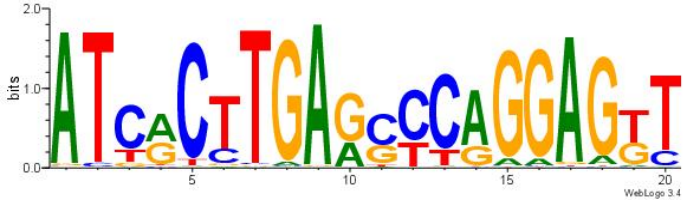

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

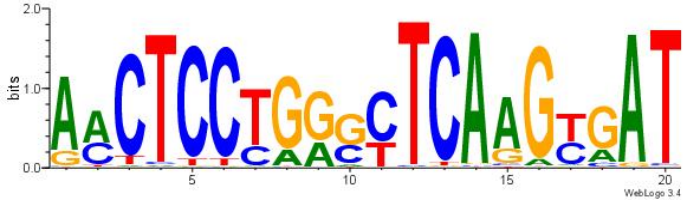

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.137303

Alignment:
GGGTCAGGGAGTTCCCTTTC
GACATGAGCTGGCGCTTG--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

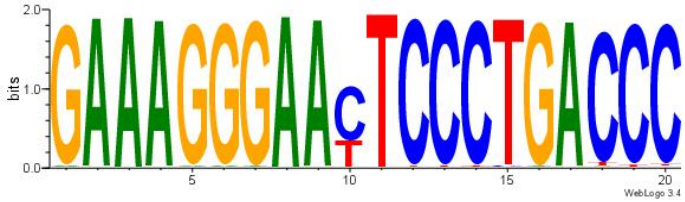

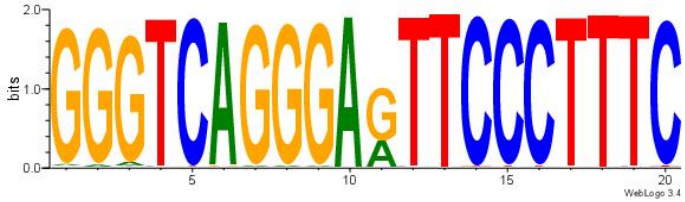

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.138337

Alignment:

```
AGTTCCGGGTGGGCGTGGG
-GACATGAGCTGGCGCTTG
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

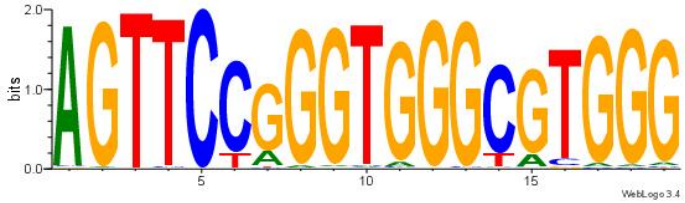

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

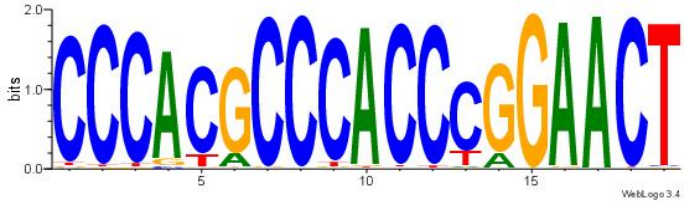

Dataset #:	1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.138477

Alignment:

```
AAATTAGGCCAATTAATAAC
--CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

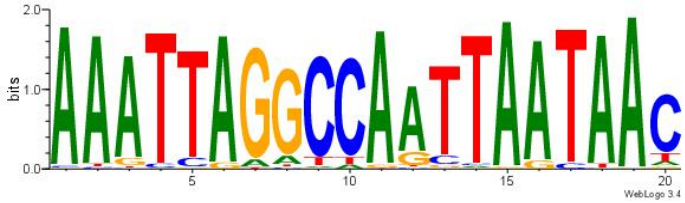

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.139241

Alignment:
ATGTAACCAAAYACCACCTG
--GACATGAGCTGGCGCTTG

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

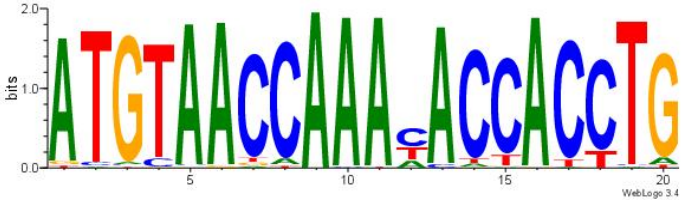

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

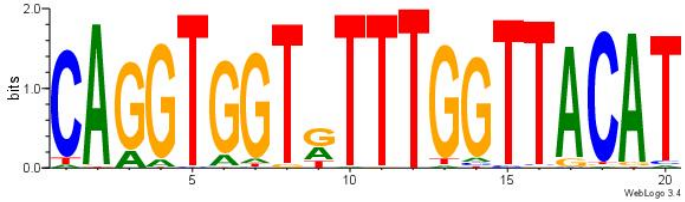

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 18
Similarity score: 0.139602

Alignment:
GCTGTGTGACCTTGGGCAAG
--GACATGAGCTGGCGCTTG

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

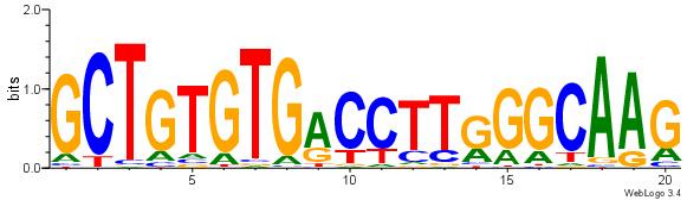

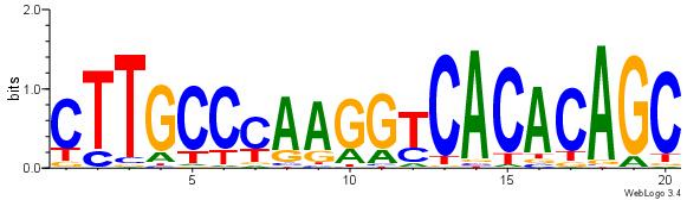

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.139979

Alignment:

```
CAAGGGTATAYGAGTAGCTG
--CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

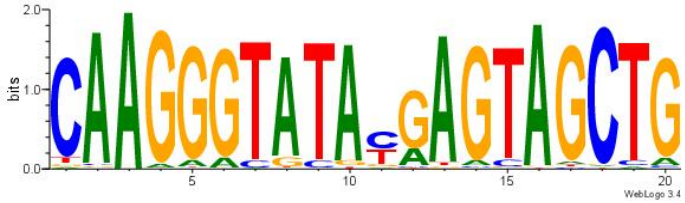

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

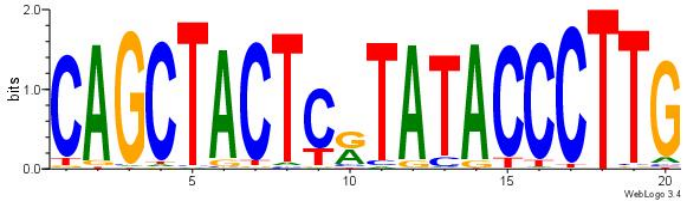

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.141567

Alignment:

```
TGGAGAACCTTTATGTCTAG
GACATGAGCTGGCGCTTG--
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

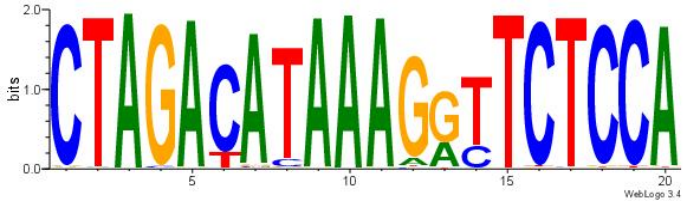

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

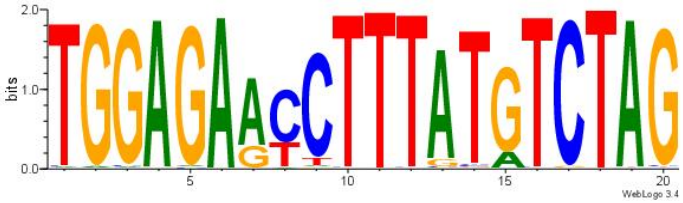

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

Similarity score: 0.141746

Alignment:
AGCCCCGGTTCCCGCYCGC
GACATGAGCTGGCGCTTG-

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

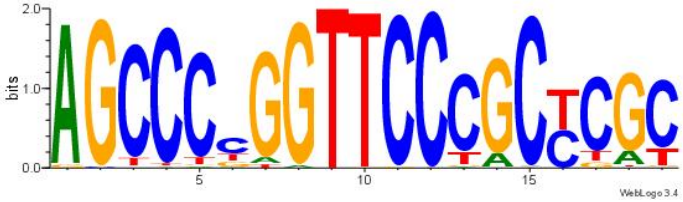

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

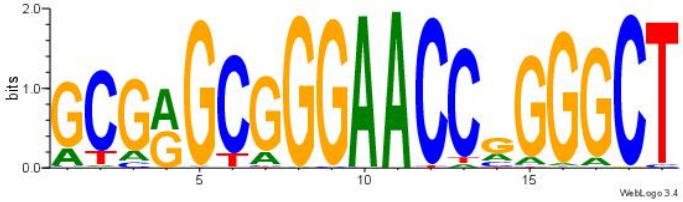

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.14295

Alignment:
ATAGGAATGCTTGTGATTTT
-GACATGAGCTGGCGCTTG-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

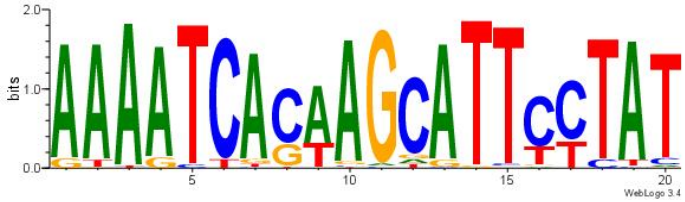

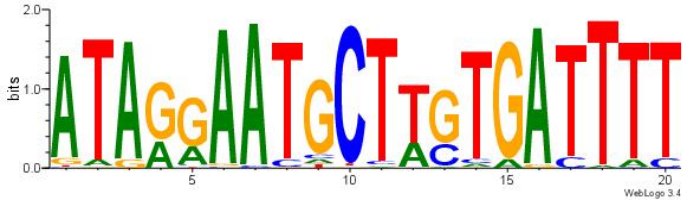

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.14344

Alignment:

```
GTKTMTATMTACCACATTTT
--CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

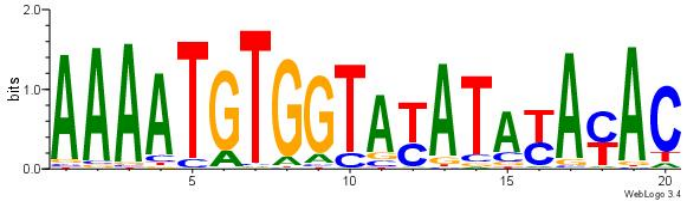

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

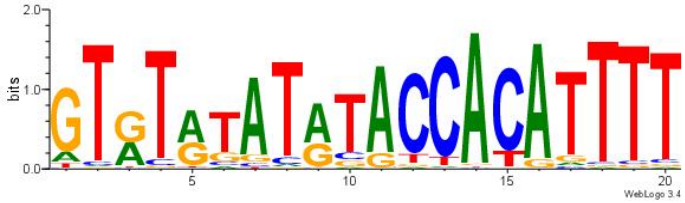

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.144403

Alignment:

```
AATGAKATCATGTCYTTTGC
--GACATGAGCTGGCGCTTG
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

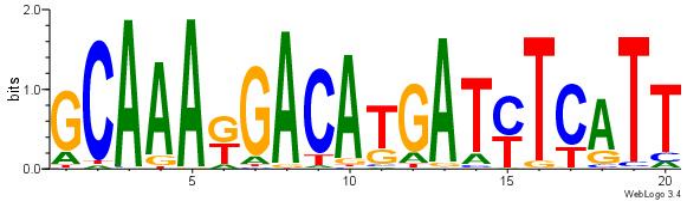

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

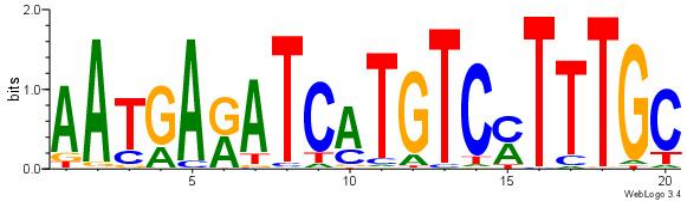

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.144687

Alignment:
MGAAGGGACTTGCCTTGT
GACATGAGCTGGCGCTTG

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

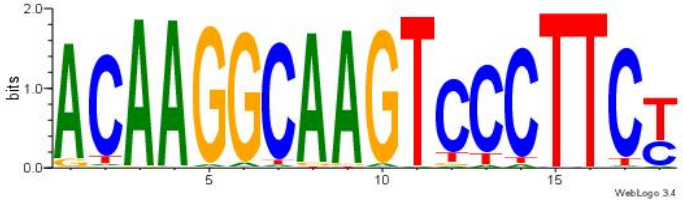

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

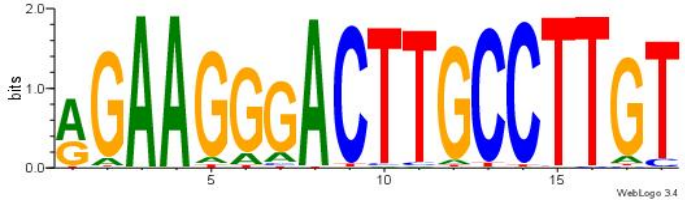

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.144746

Alignment:
TAATTTTATGTGTCAACTTG
-GACATGAGCTGGCGCTTG-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

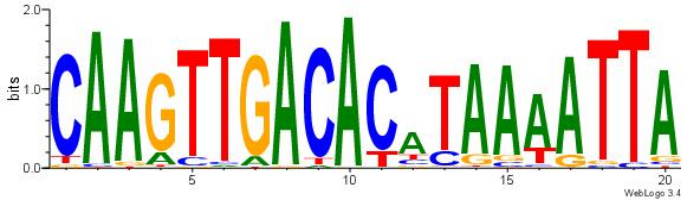

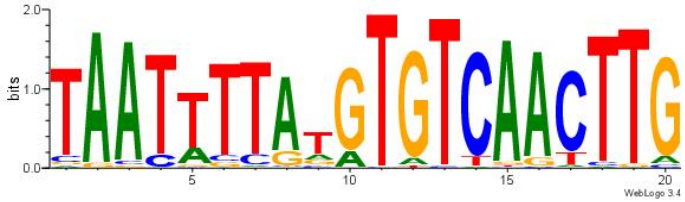

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.144901

Alignment:

```
GTAGACKGGAGCTGTTCCT
-CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

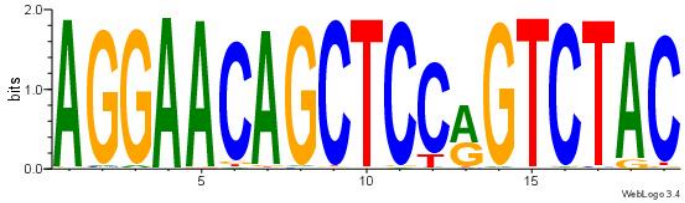

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

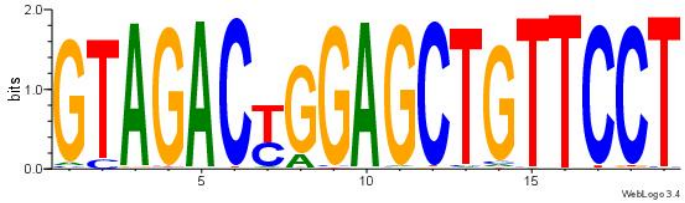

Dataset #: 1

Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.144929

Alignment:
TGCCCAGTCTGGAAAGTG
GACATGAGCTGGCGCTTG

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

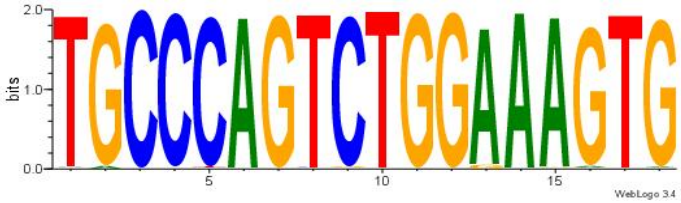

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

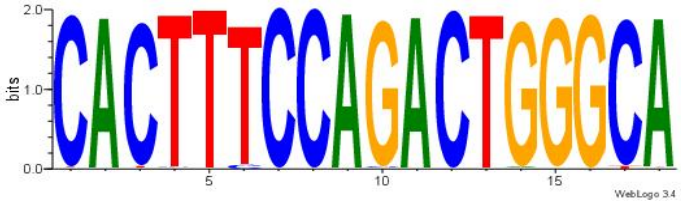

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 0.145034

Alignment:
TACCTGAGACTGGGTAATTT
--CAAGCGCCAGCTCATGTC

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

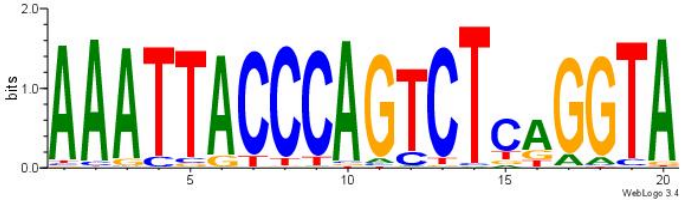

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

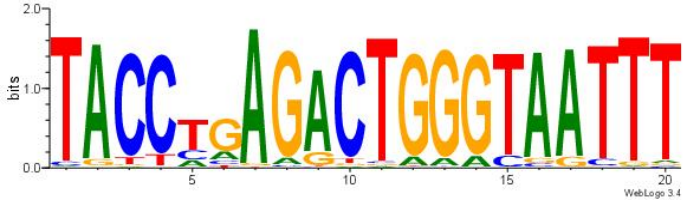

Dataset #: 1
Motif ID: 27
Motif name: Motif 27
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.146588

Alignment:
CACTTCCCAGACGGGGCG
CAAGCGCCAGCTCATGTC

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

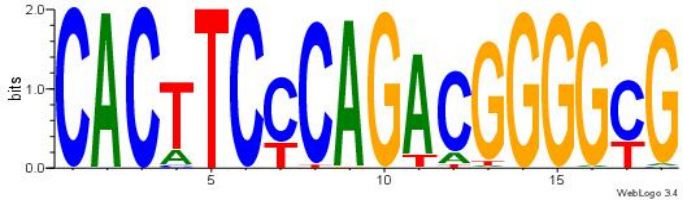

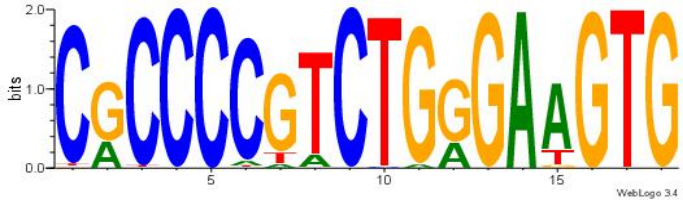

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.147154

Alignment:

```
ACCCAATWTGTAGTCTTTTA
GACATGAGCTGGCGCTTG--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

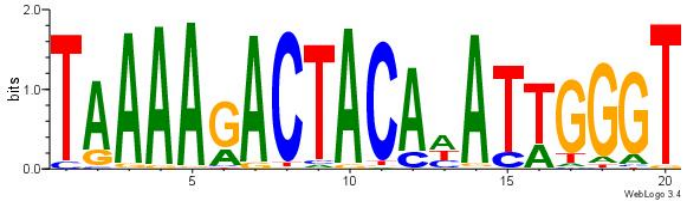

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

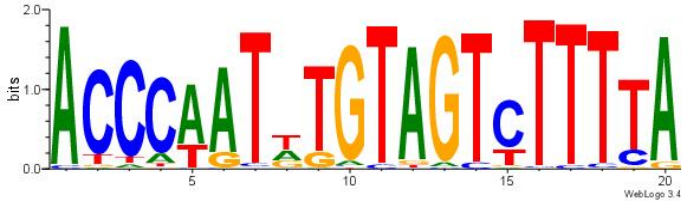

Dataset #: 1

Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.148154

Alignment:

```
TAMGACCTCAGGTCCTCAG
-CAAGCGCCAGCTCATGTC
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

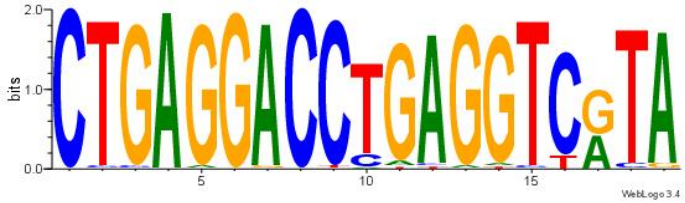

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

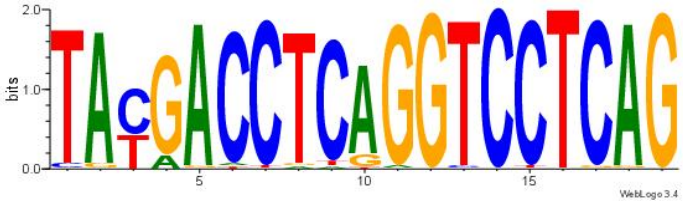

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18

Similarity score: 0.148237

Alignment:
AAAMAMMKMATGTTCTCACT
-CAAGCGCCAGCTCATGTC-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

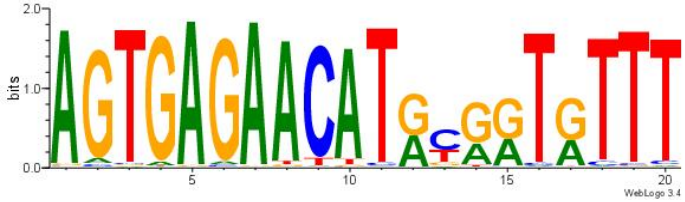

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

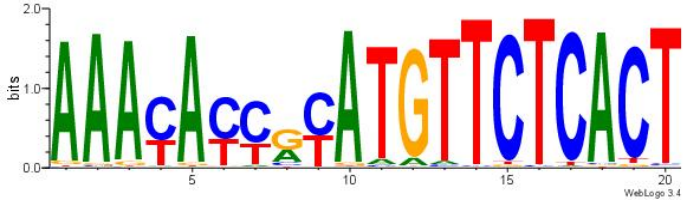

Dataset #: 1 Motif ID: 307 Motif name: Motif 307

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

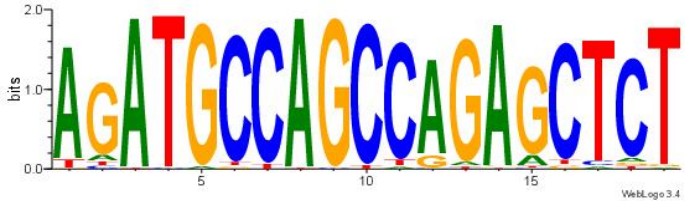

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

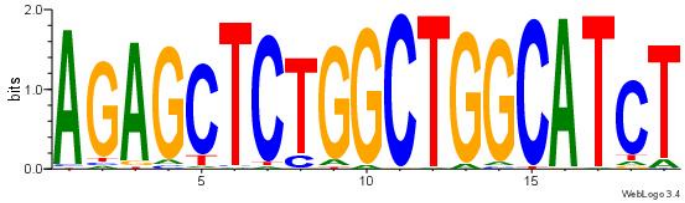

Best Matches for Motif ID 307 (Highest to Lowest)

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0871974

Alignment:

```
AGCTCCCAGCGTGAGCGACG
AGATGCCAGCCAGAGCTCT-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

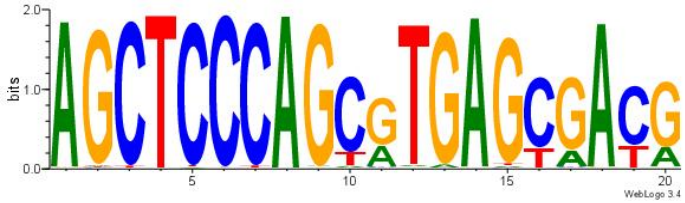

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

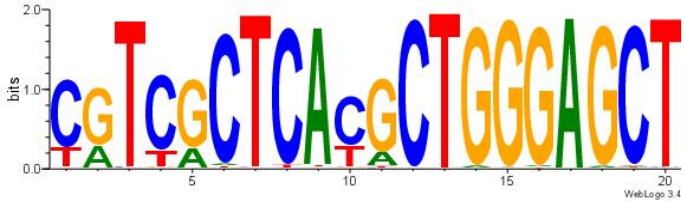

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0921664

Alignment:

AAAGCTGGAGCTATTATCTA
AGAGCTCTGGCTGGCATCT-

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

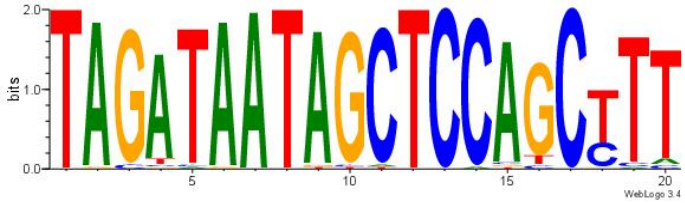

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

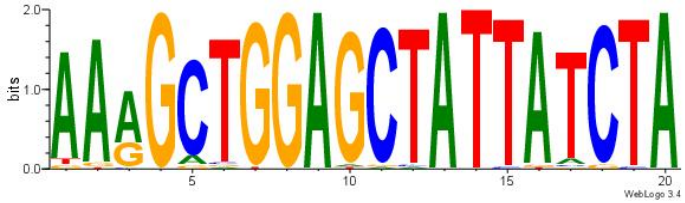

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.0945368

Alignment:
GGATTTMKGACTTGCATGGG
AGAGCTCTGGCTGGCATCT-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

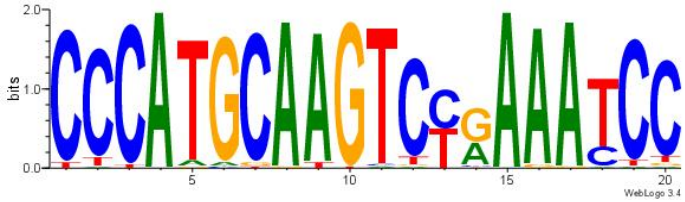

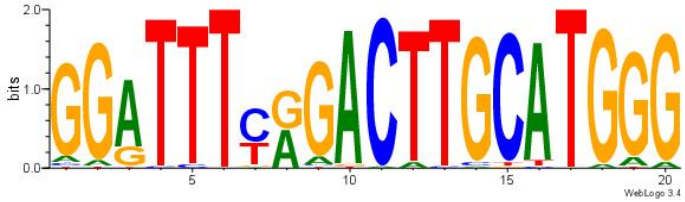

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.107882

Alignment:

```
HAGTGGKATTGCTGGATCAT
-AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

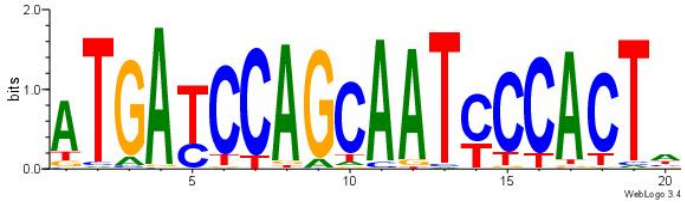

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

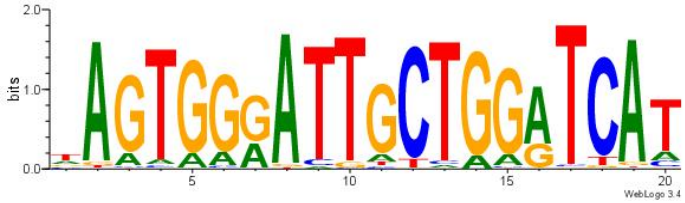

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112048

Alignment:
ACATCCCAGACGATGGGCG
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

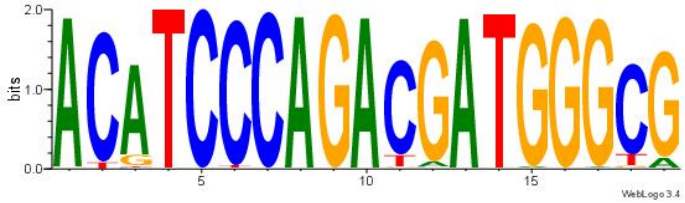

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

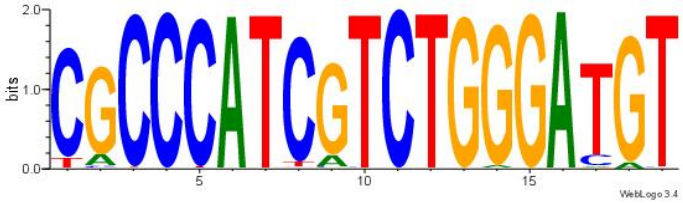

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.113649

Alignment:
CCCMKGGCACCCTCAGTCCT
-AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

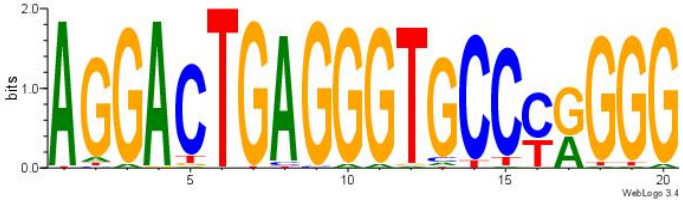

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

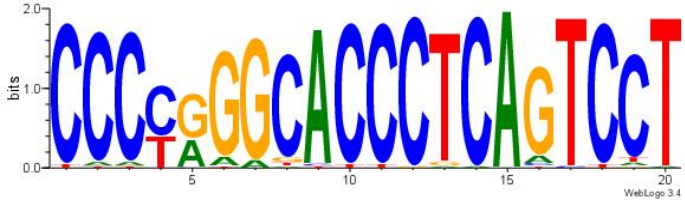

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.116115

Alignment:
AACAACASACACTGGGGCCT
-AGAGCTCTGGCTGGCATCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

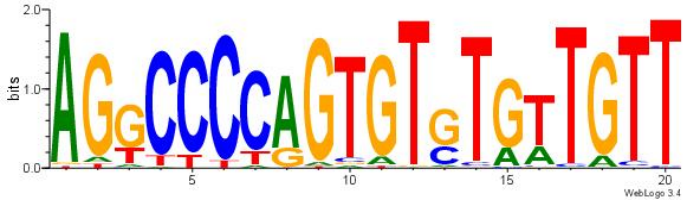

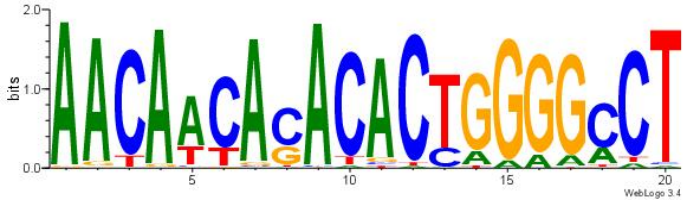

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.120457

Alignment:

```
AAAATCACAAGCATTCCTAT
-AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

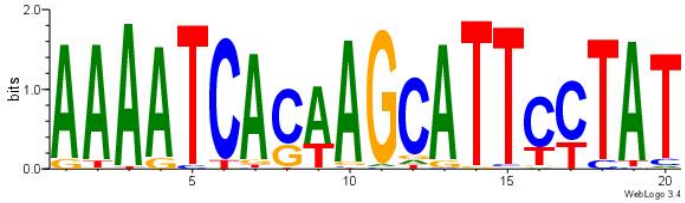

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

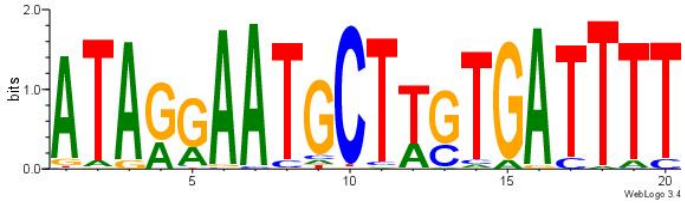

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.120967

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

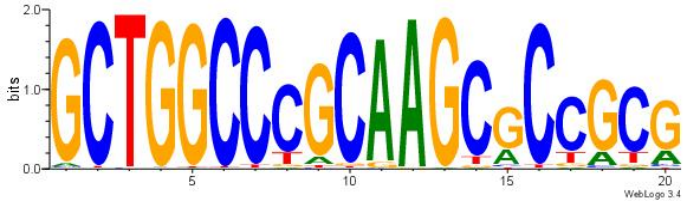

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

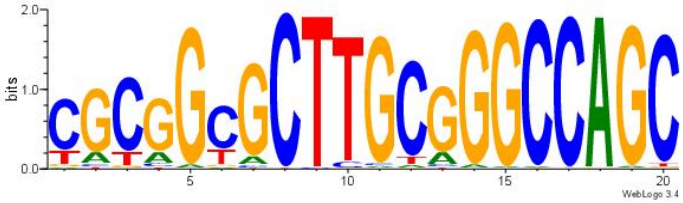

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.121261

Alignment:
TTGTCCCACTGGAAGGTCTT
-AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

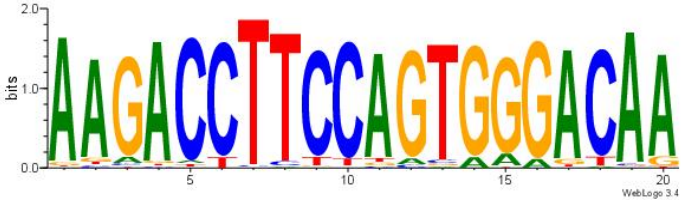

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

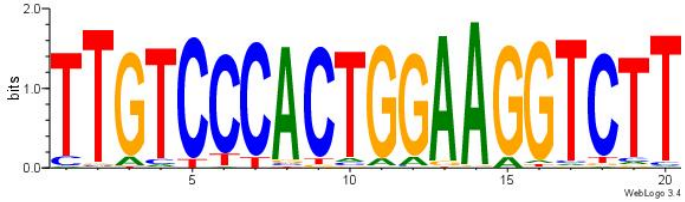

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.122266

Alignment:
AGAAATCGAGCRCAGCGCCG
AGATGCCAGCCAGAGCTCT-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

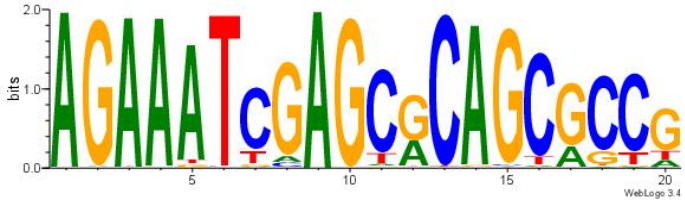

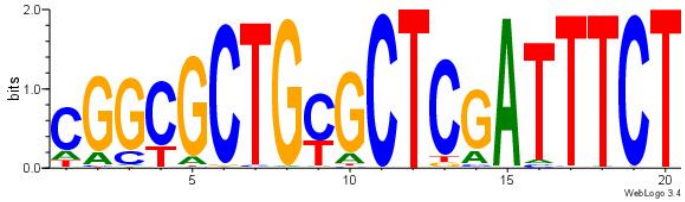

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.122293

Alignment:

```
AGTTGTAATTGGGAGACTT
AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

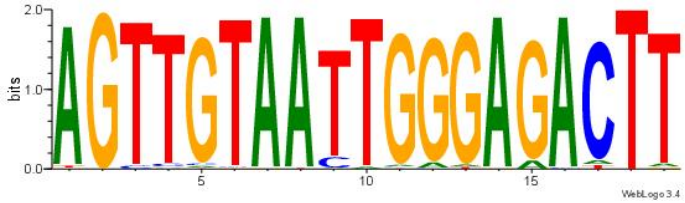

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

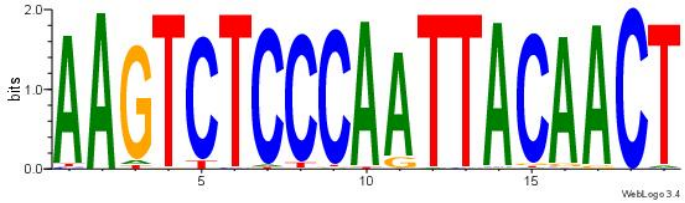

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.122623

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

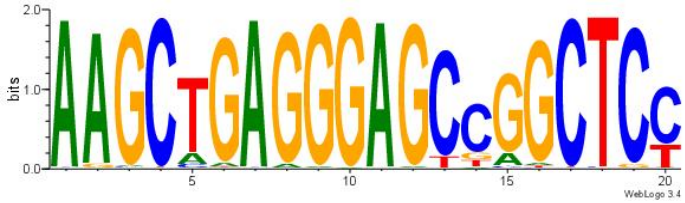

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

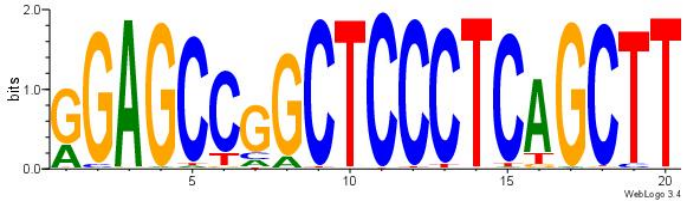

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.122655

Alignment:
GGTGGAGCTGCCTGCCAGTC
-AGAGCTCTGGCTGGCATCT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

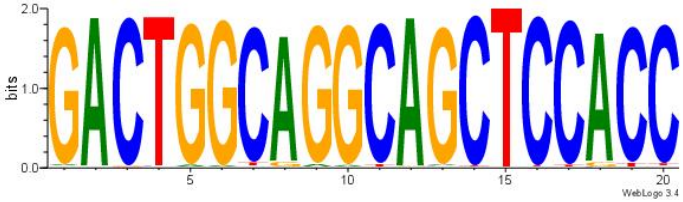

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

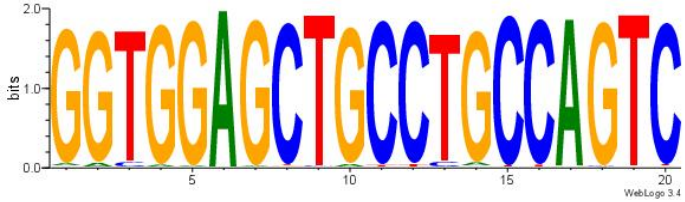

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.124566

Alignment:
GGAGGTGTGGAGGGAGAGGC
AGAGCTCTGGCTGGCATCT-

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

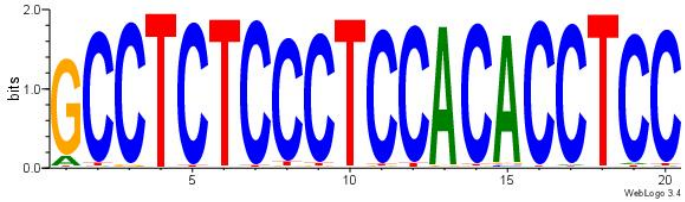

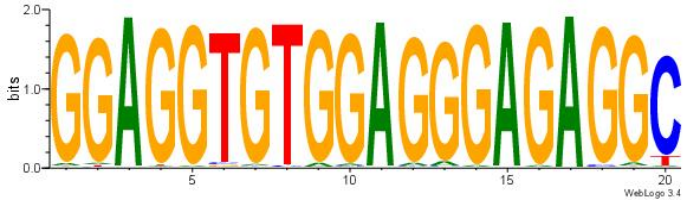

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.127284

Alignment:

```
GAATACCTCCTGAAGGACCT
-AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

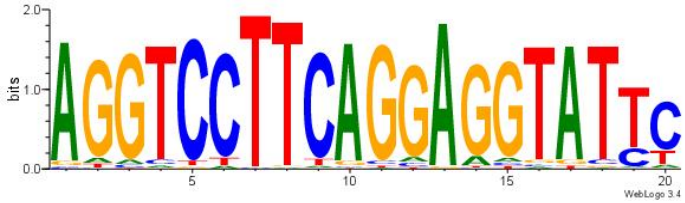

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

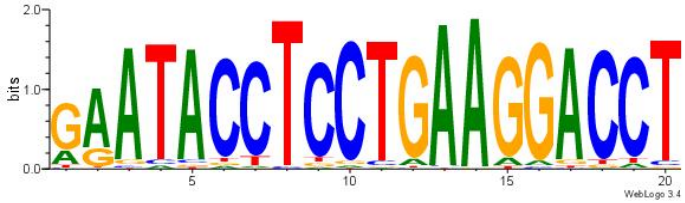

Dataset #: 1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.12919

Alignment:

```
AGGASCSTCYSWGCCMGGY
AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

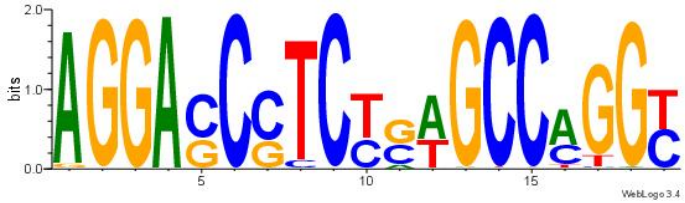

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

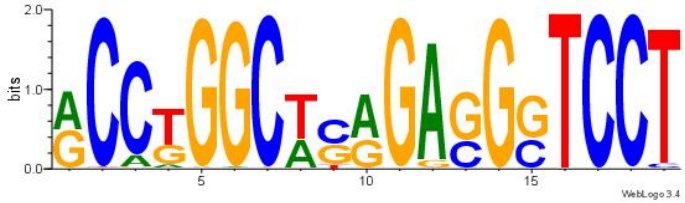

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.129357

Alignment:
ACACATCACAAAGCAGTTTC
AGATGCCAGCCAGAGCTCT-

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

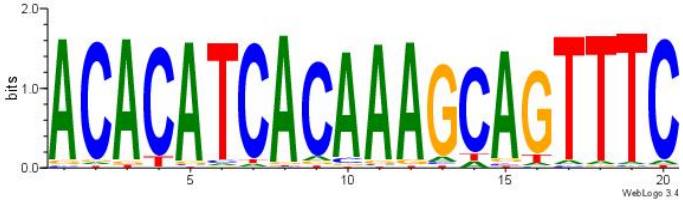

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

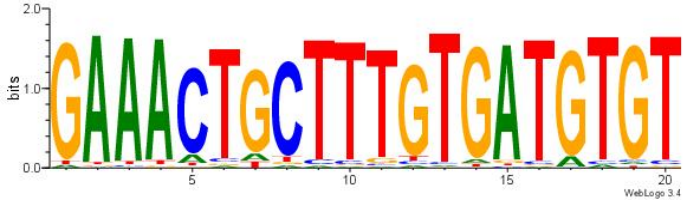

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.130737

Alignment:
AGCTCMKCCTCCTGTCAGAT
-AGAGCTCTGGCTGGCATCT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

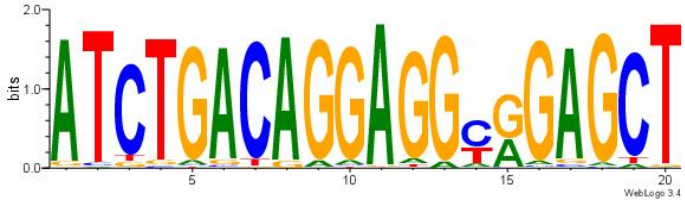

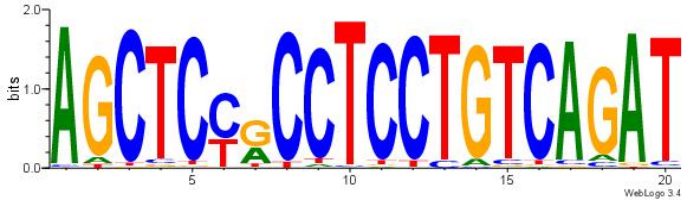

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.130809

Alignment:

```
TWTACCTATGTAACAAACCT
-AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

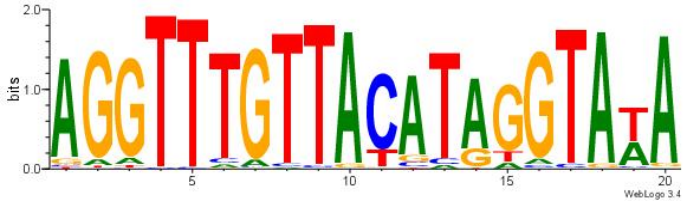

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

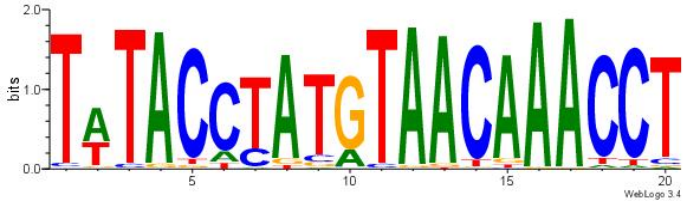

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.132052

Alignment:

```
AAGTCCAAGATCAAGGTGYY
AGATGCCAGCCAGAGCTCT-
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

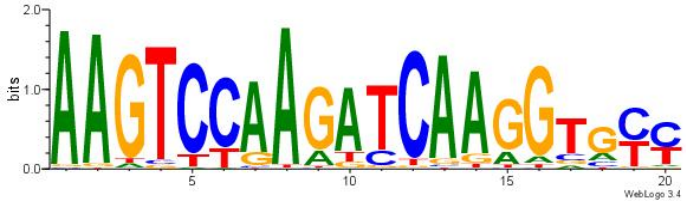

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

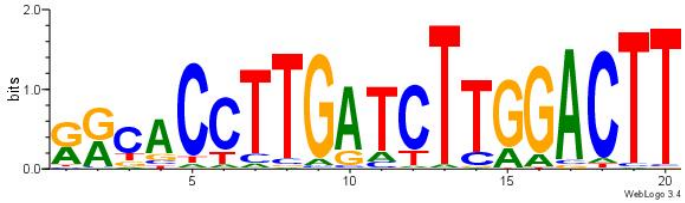

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.13274

Alignment:
AATTAAAAGACACAGACTG
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

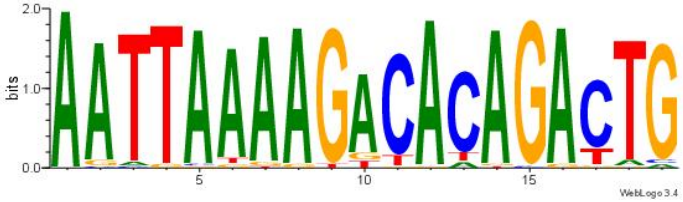

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

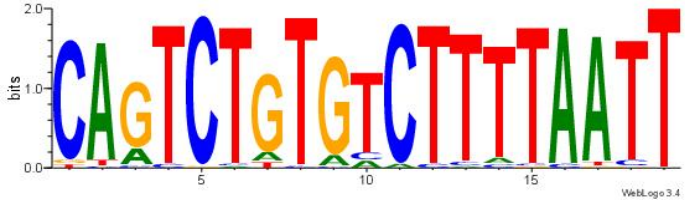

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.133317

Alignment:
AGAGCCAAATCATGARTGAA
AGAGCTCTGGCTGGCATCT-

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

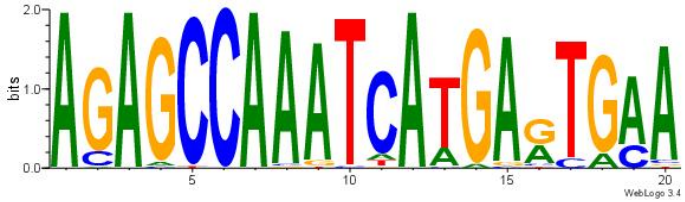

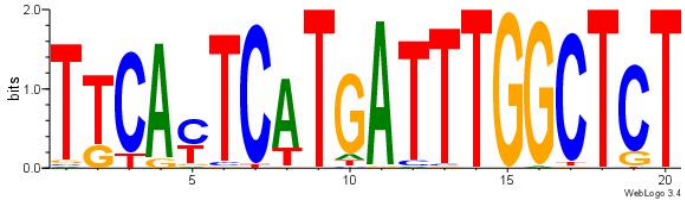

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133779

Alignment:
ACAGGCTGTCCCAGGATTC
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

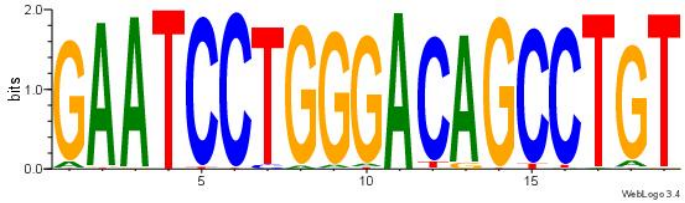

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

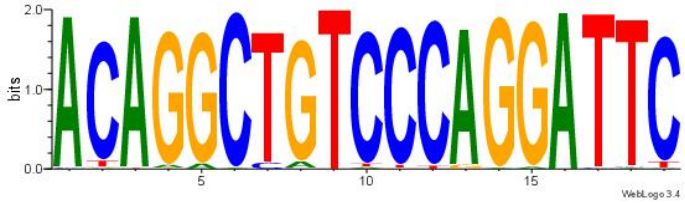

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134425

Alignment:

```
GGGATTGTAAATACACCAAT
AGATGCCAGCCAGAGCTCT-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

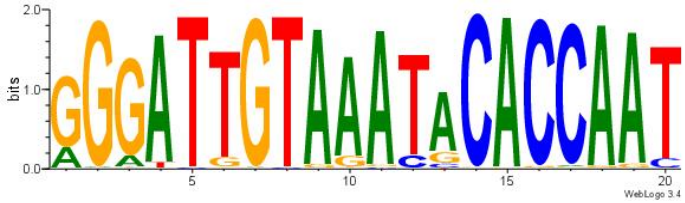

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.135649

Alignment:
AGCTGTGAGAAGAGGGCCAC
AGATGCCAGCCAGAGCTCT-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

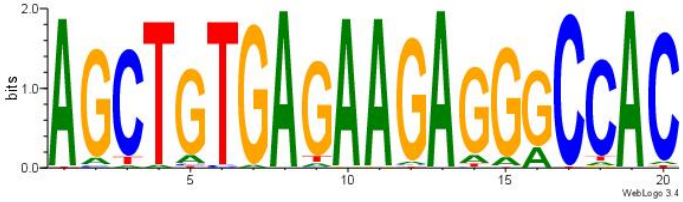

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

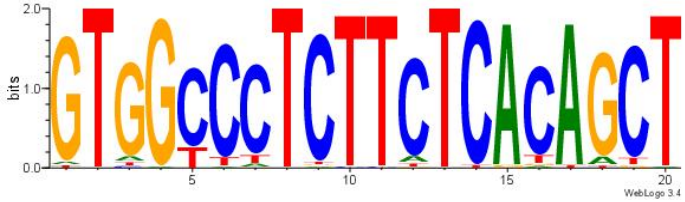

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.13629

Alignment:
TCTCTCTCTCTCTCTCTCTC
-AGAGCTCTGGCTGGCATCT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

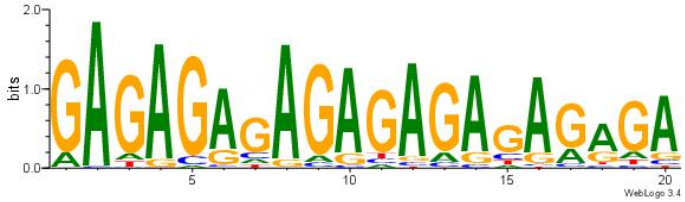

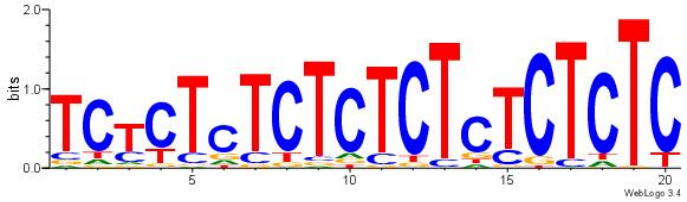

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136532

Alignment:

```
ATTAGCYRGGCRTGGTGGC
AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

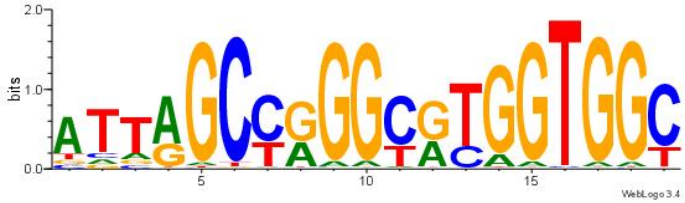

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

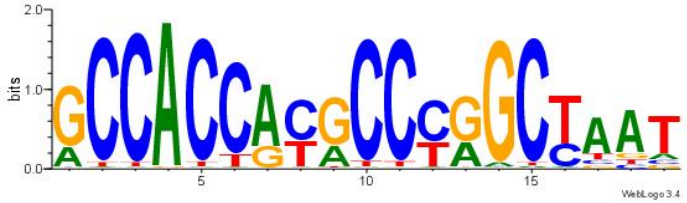

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.137472

Alignment:

```
AGCCYCTGGYAACCAYYAWT
AGATGCCAGCCAGAGCTCT-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

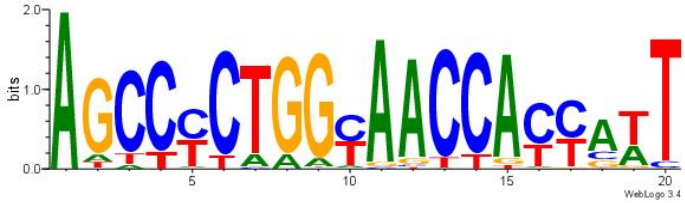

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

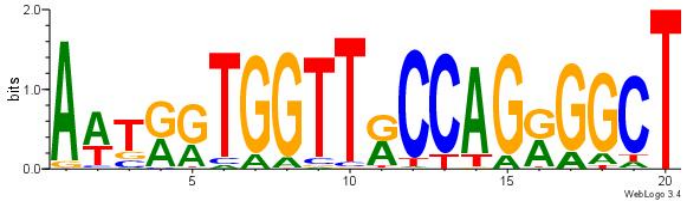

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.137614

Alignment:
AGACAGTGGGYGCAGGHCA
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

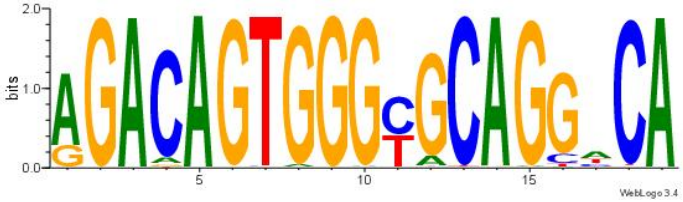

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

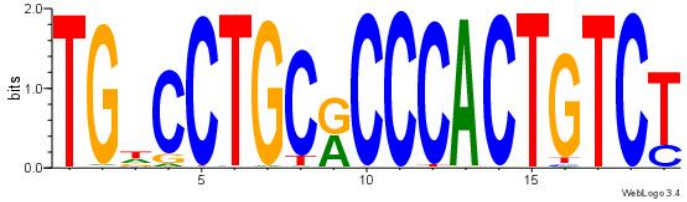

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.138751

Alignment:
TCCCTCCCGGACGGGGYGGC
-AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

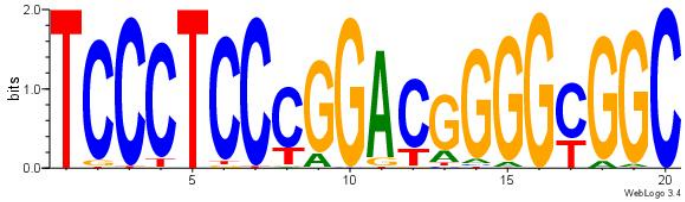

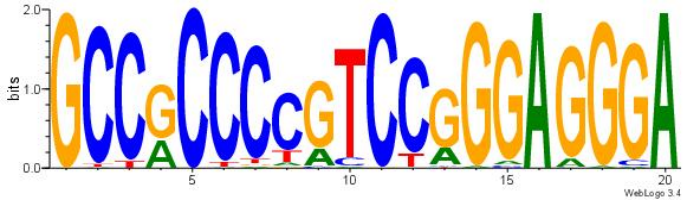

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.139209

Alignment:
GGGTGCAGGMGGGCTGAGT
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

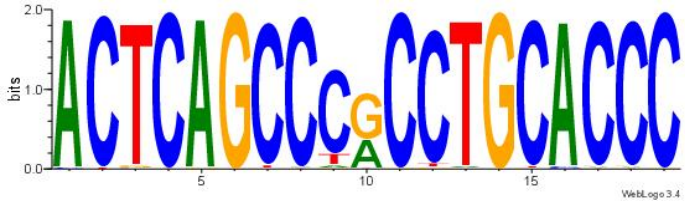

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

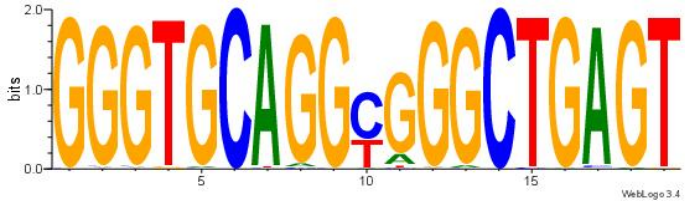

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.142164

Alignment:

```
TGGCTTCACCCAGTGGATCC
-AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

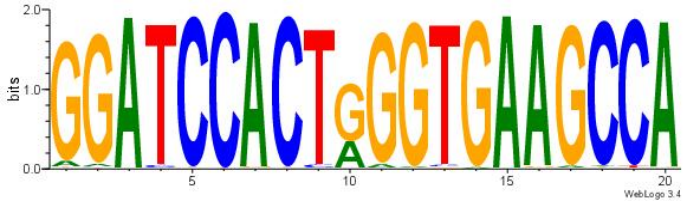

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

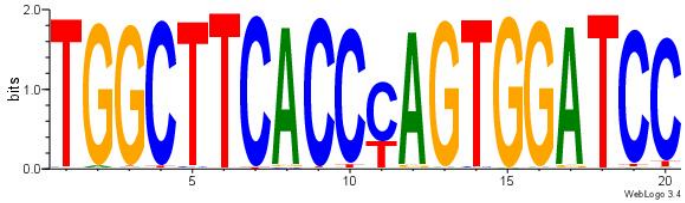

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.142534

Alignment:
ATTGATMKCCAGGGTTGATT
AGAGCTCTGGCTGGCATCT-

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

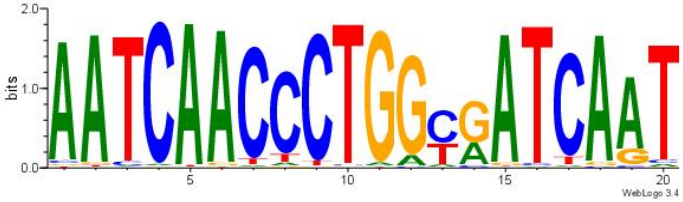

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

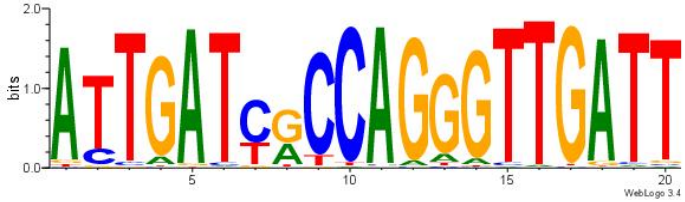

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.143131

Alignment:
ACTCCCTAGTGAGATGAACC
-AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

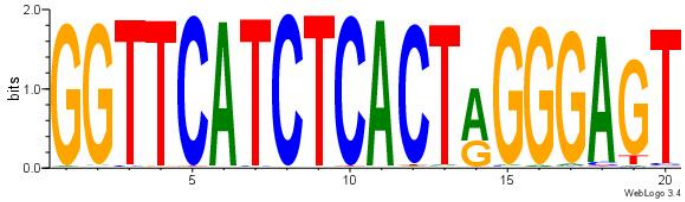

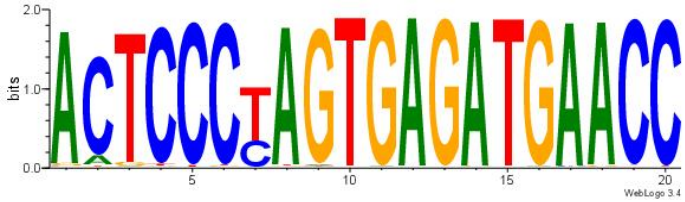

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.143294

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
-AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

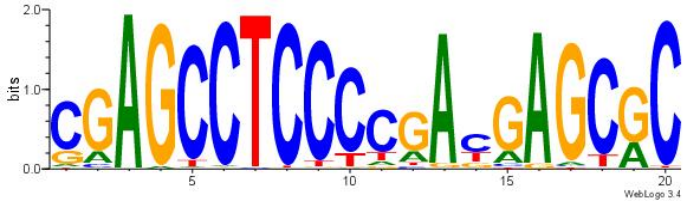

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

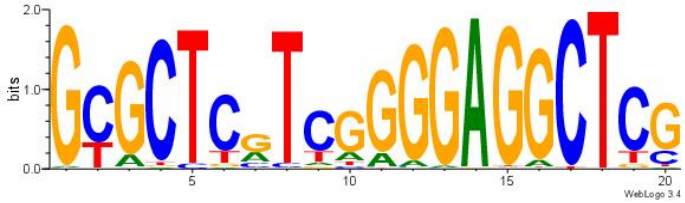

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144011

Alignment:

```
CGGCTTCATTCTTGAAGTC
AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

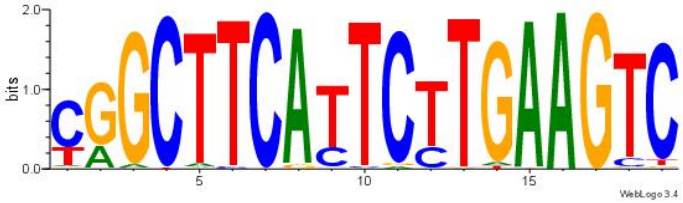

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.144147

Alignment:
AAGTTCTKGGKTACATGTGC
AGATGCCAGCCAGAGCTCT-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

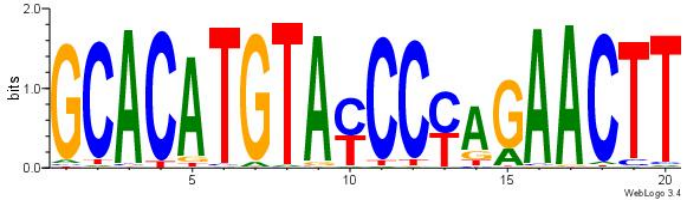

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

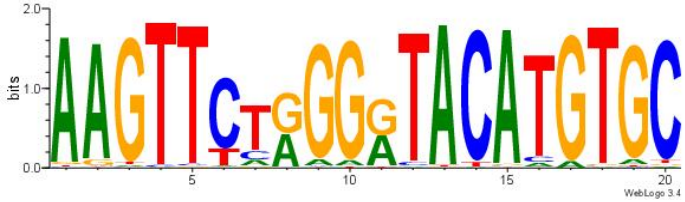

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.144207

Alignment:
GCTTAGCACCYGGGCCAGC
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence:
GCTGGCCCKGGTGCTAAGC

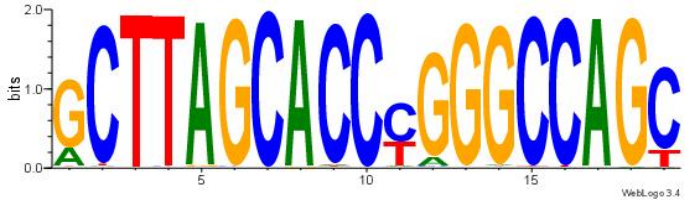

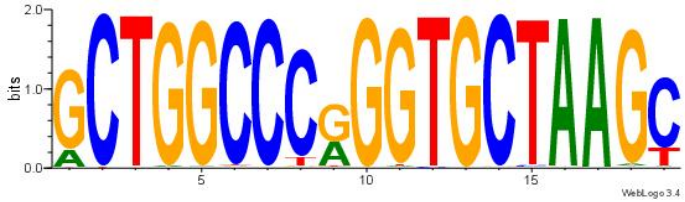

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144227

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
-AGAGCTCTGGCTGGCATCT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

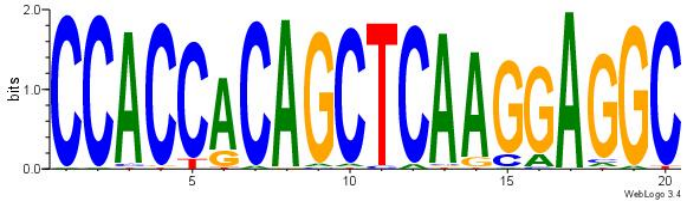

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

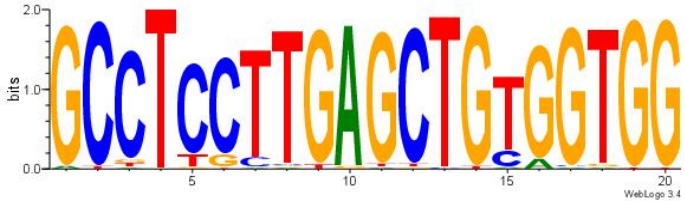

Dataset #:	1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145675

Alignment:

```
AAAAGTCCACAGTCCAAAGT
AGAGCTCTGGCTGGCATCT-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

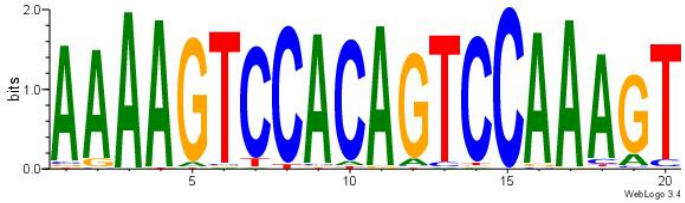

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

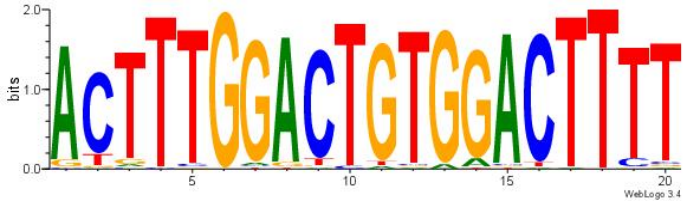

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.145679

Alignment:
GCCAGGCAGAGRGKCTCCT
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

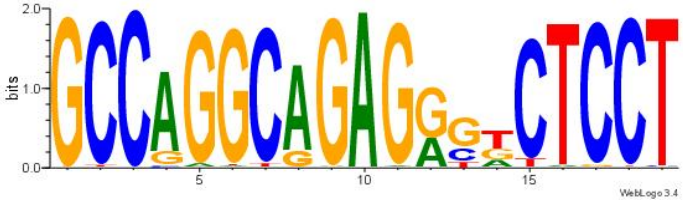

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

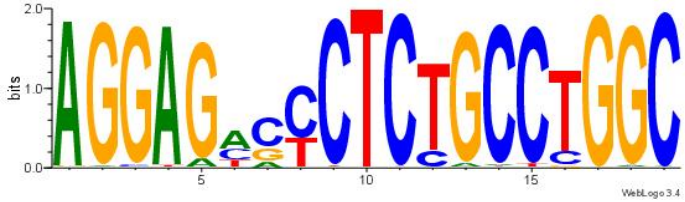

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.146046

Alignment:
CTATTGTGAATARTGCTGC
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

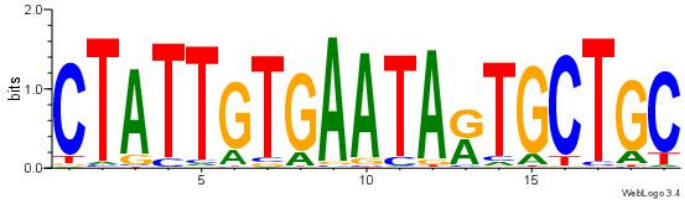

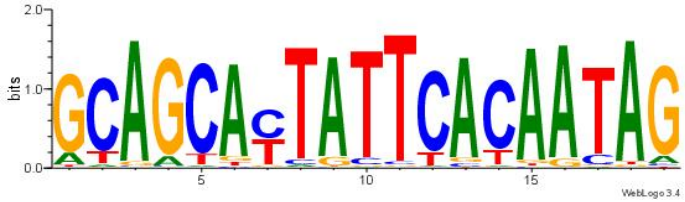

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.146075

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
-AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

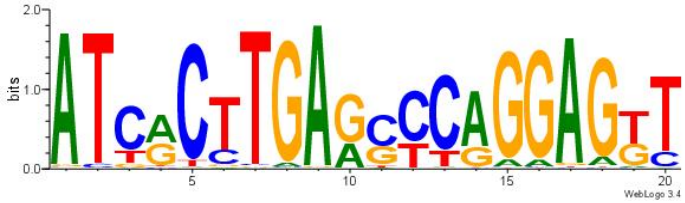

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

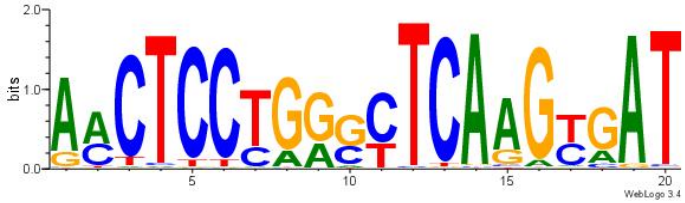

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.146145

Alignment:

```
ACCTGGAAAATCGGGTCACT
-AGATGCCAGCCAGAGCTCT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

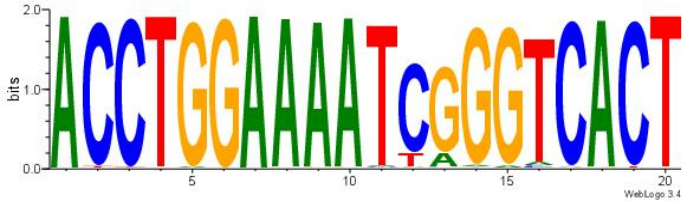

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

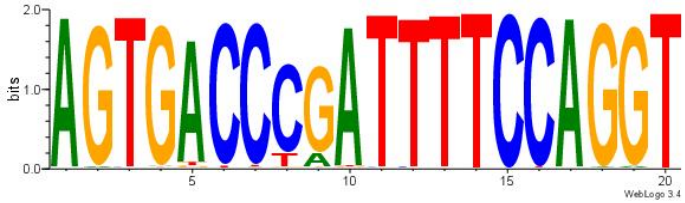

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.146198

Alignment:
MTCCTCCAGACCCCAGAATG
AGATGCCAGCCAGAGCTCT-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

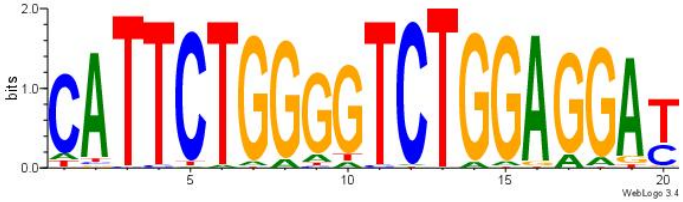

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

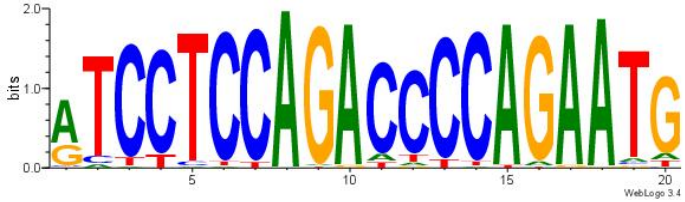

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.146592

Alignment:
CTGGGTCCCCCAGCAGTGCC
-AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

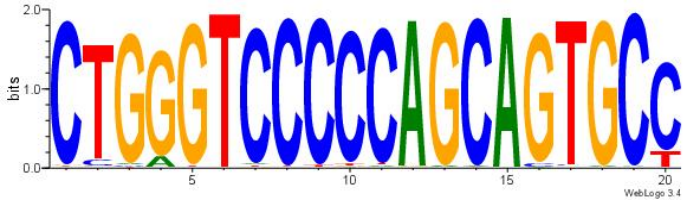

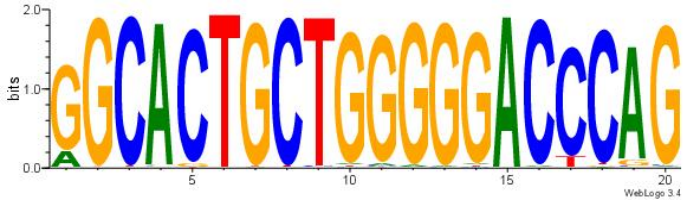

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.147027

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
AGATGCCAGCCAGAGCTCT-
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

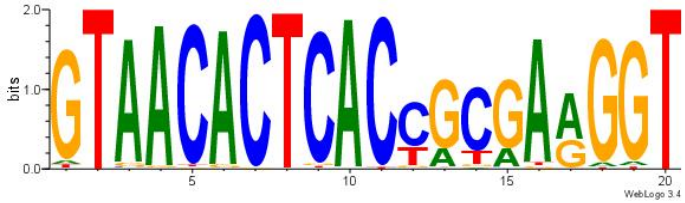

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

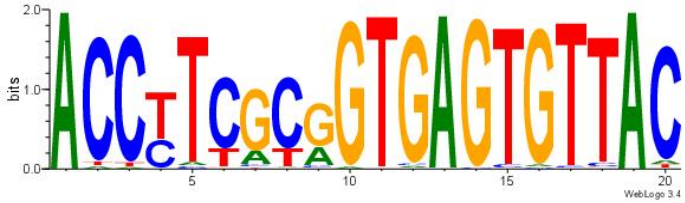

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.147346

Alignment:

```
VMATTTAKTGAGCACCTACT
AGAGCTCTGGCTGGCATCT-
```

Original motif Consensus sequence: AGTAGGTGCTCAATAAATRB

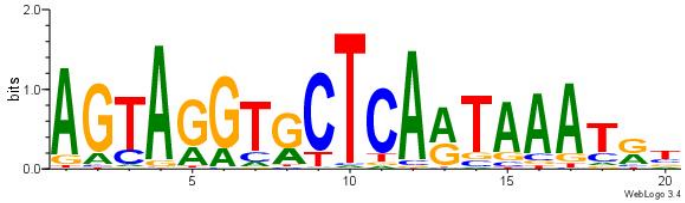

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

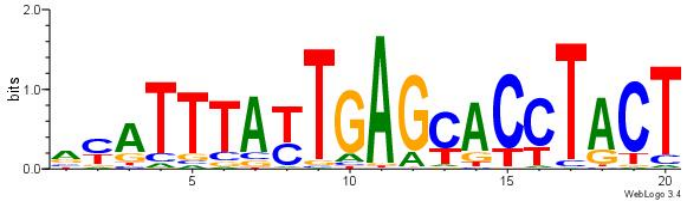

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.147479

Alignment:
AGTTCCGGGTGGGCGTGGG
AGATGCCAGCCAGAGCTCT

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

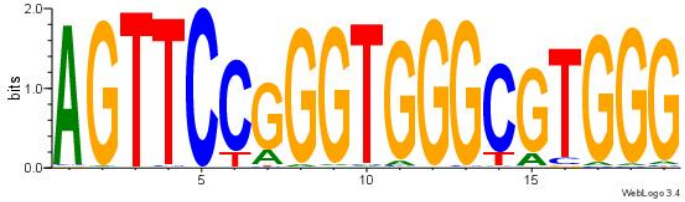

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

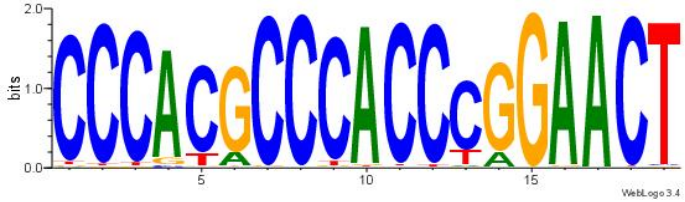

Dataset #: 1 Motif ID: 308 Motif name: Motif 308

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

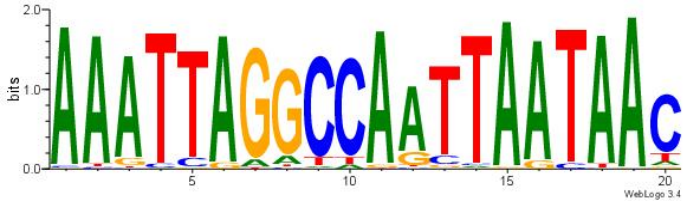

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

Best Matches for Motif ID 308 (Highest to Lowest)

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.109629

Alignment:

GTKTMTATMTACCACATTTT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

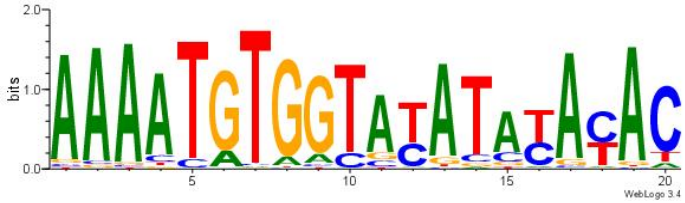

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

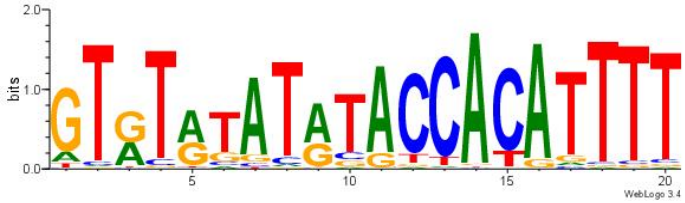

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.116375

Alignment:

GAAHCAACCKAAKTGTCCAT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

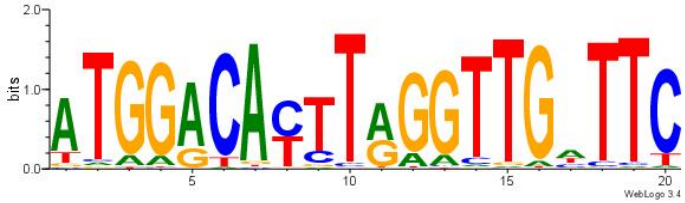

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

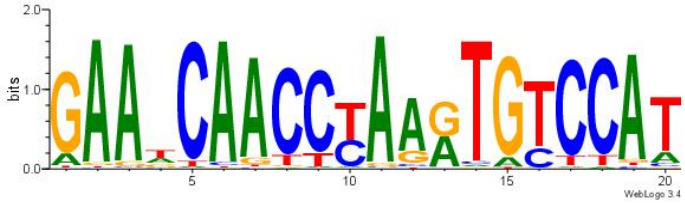

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118957

Alignment:
TACCTGAGACTGGGTAATTT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

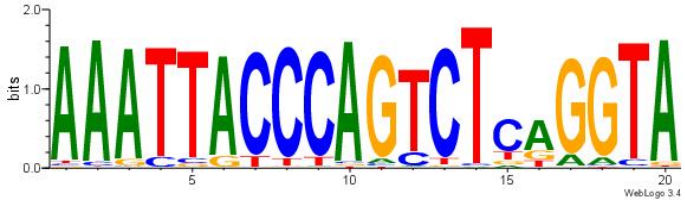

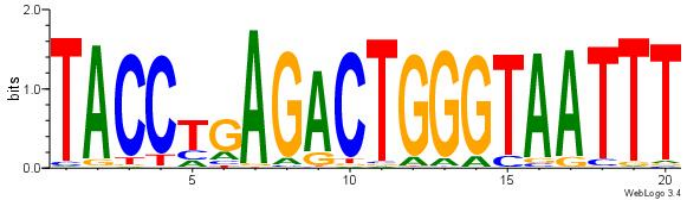

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121938

Alignment:

```
TAATTTTATGTGTCAACTTG
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

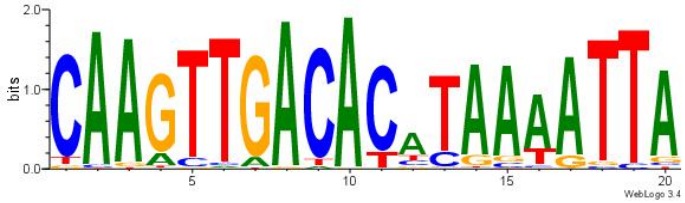

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

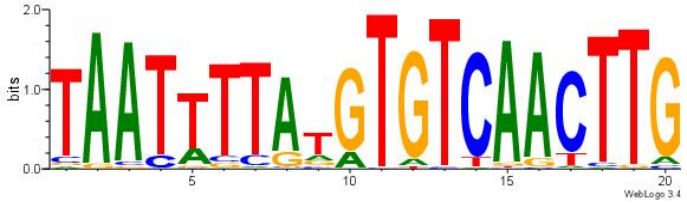

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.124013

Alignment:

```
TWTACCTATGTAACAAACCT
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

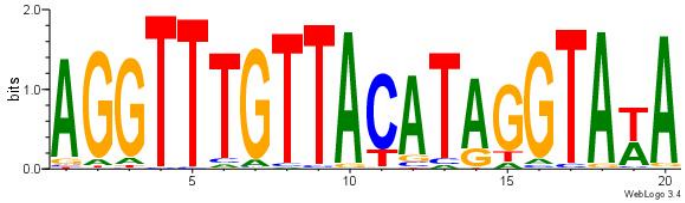

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

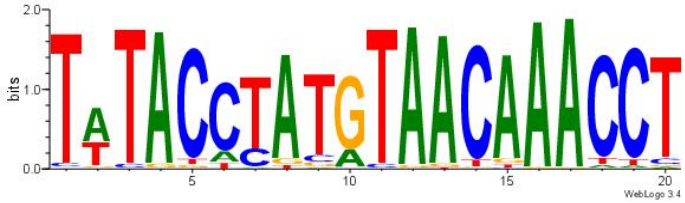

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.125999

Alignment:
AAGCAGGGCGAGGCATTGCC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

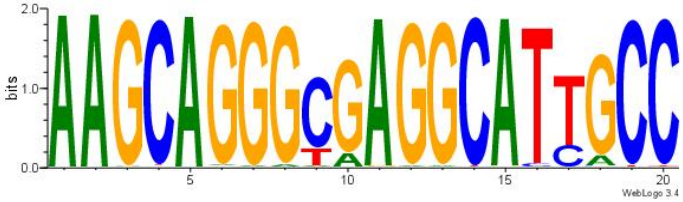

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

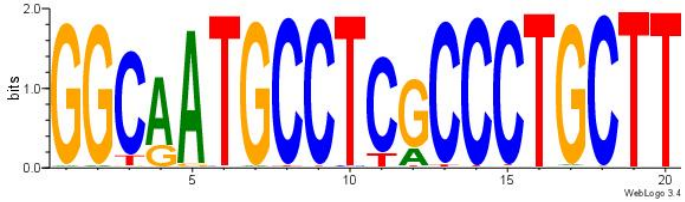

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13108

Alignment:
AGTAGGTGCTCARTAAATRB
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

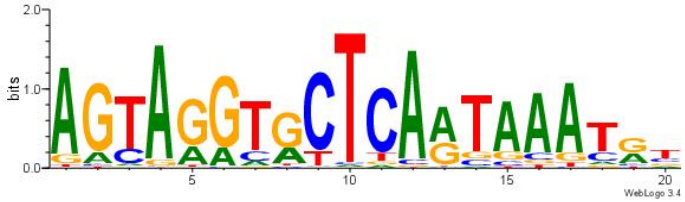

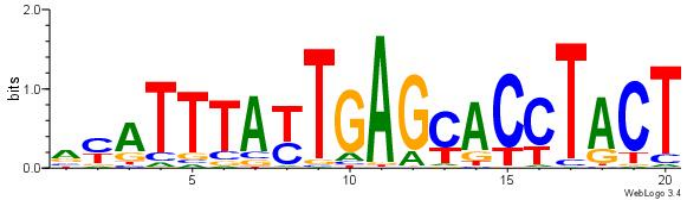

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131403

Alignment:
AGCCYCTGGYAACCAYYAWT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

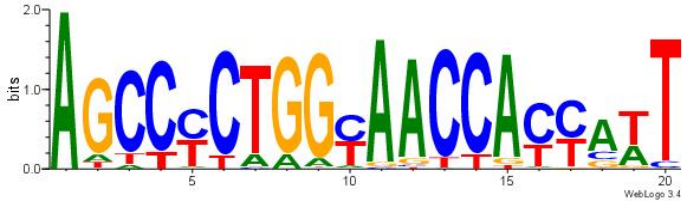

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

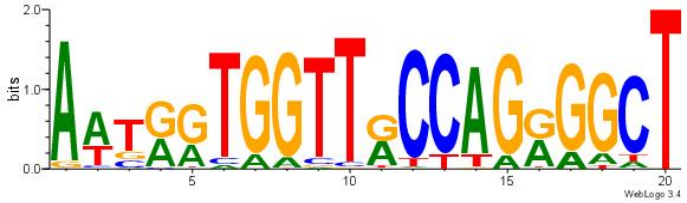

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131495

Alignment:
ACACATCACAAAGCAGTTTC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

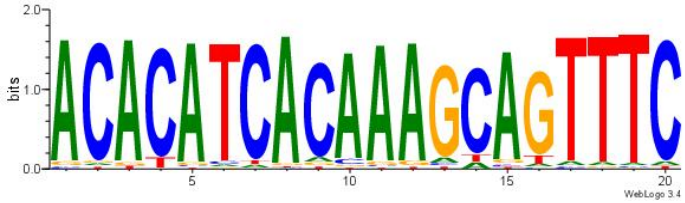

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

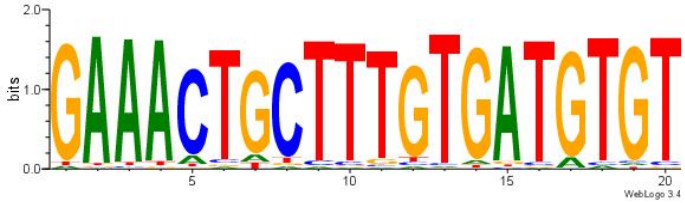

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131711

Alignment:
AAAAGTCCACAGTCCAAAGT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

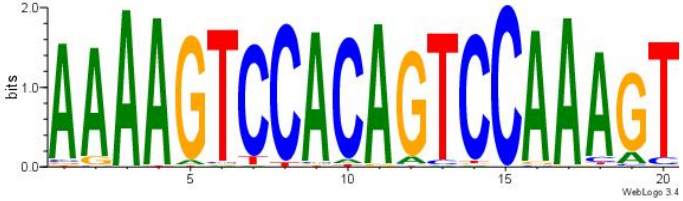

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

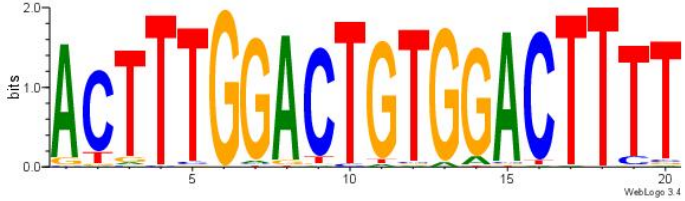

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132284

Alignment:
GTGCCAGGCACTGTKCTARG
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

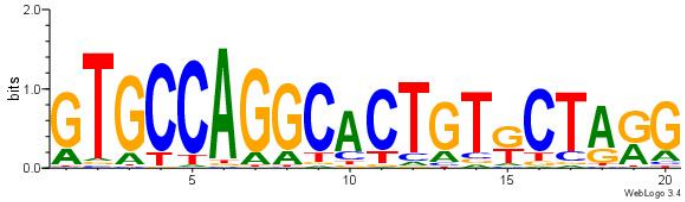

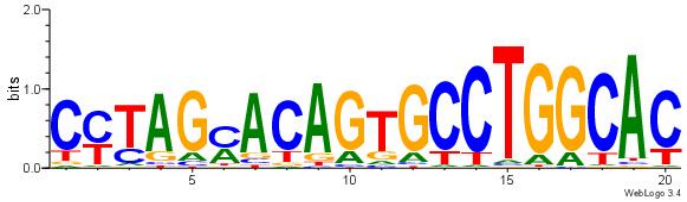

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132492

Alignment:

```
AAAATCACAAGCATTCCTAT
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

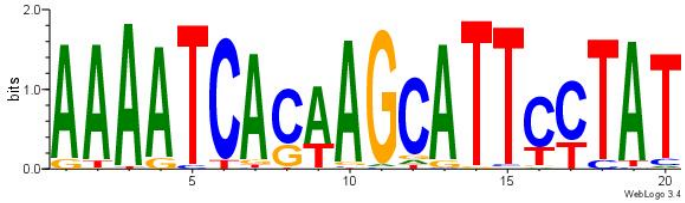

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

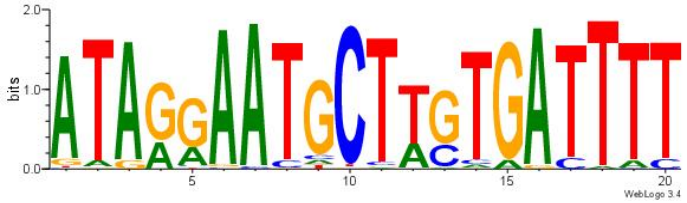

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133889

Alignment:

```
AGTGAGAACATRYRRTRTTT
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

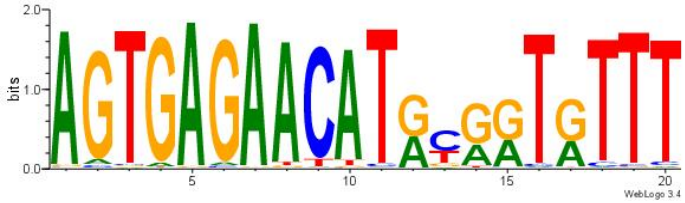

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

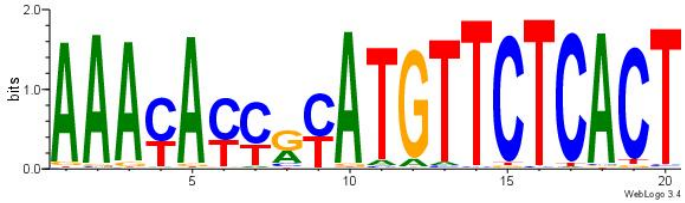

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.134991

Alignment:
TTTYTWTTTTTTYTWGAGAC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

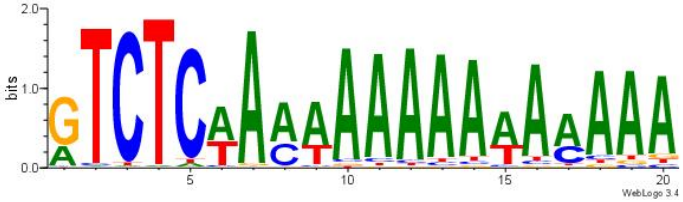

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

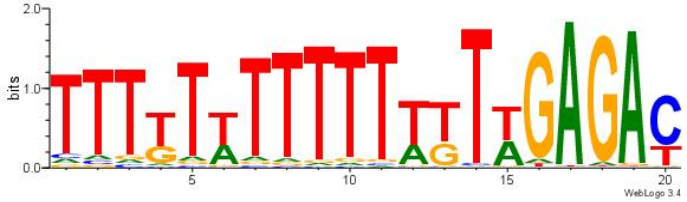

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135153

Alignment:
AATCAACCCTGGYRATCAAT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

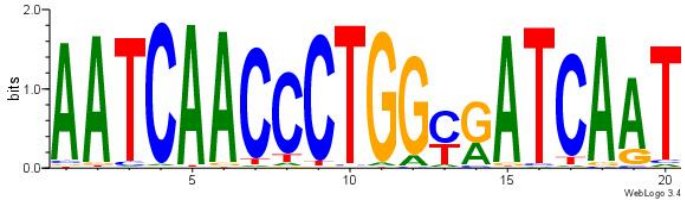

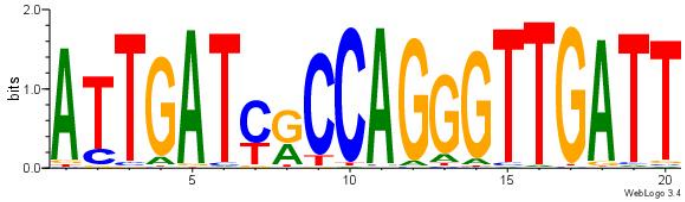

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135495

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

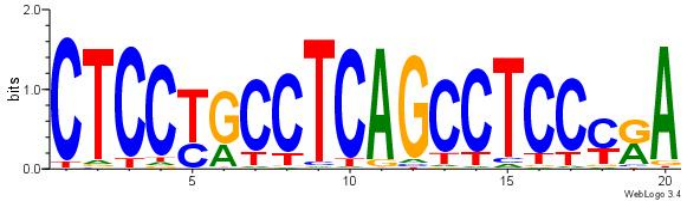

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

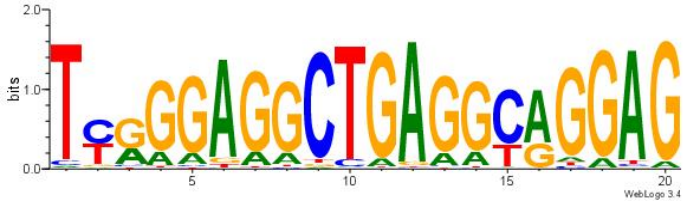

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136739

Alignment:
ATGTGGAGGTGGAAGACAGT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

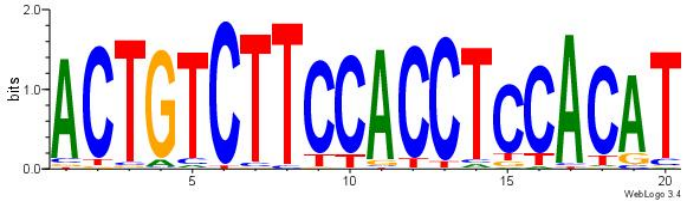

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

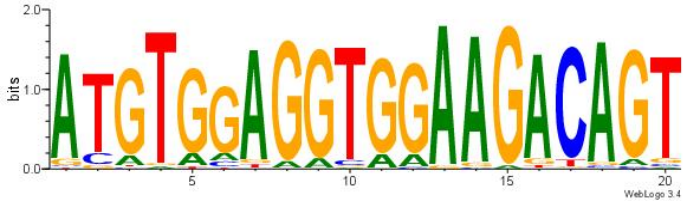

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136967

Alignment:
GGCATCACGGATCCTACCAA
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

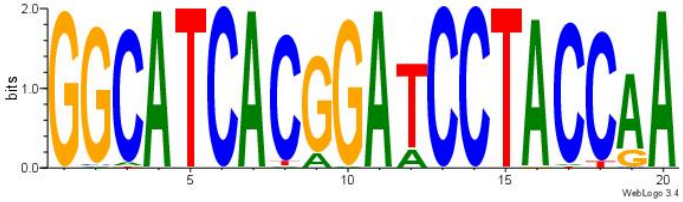

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

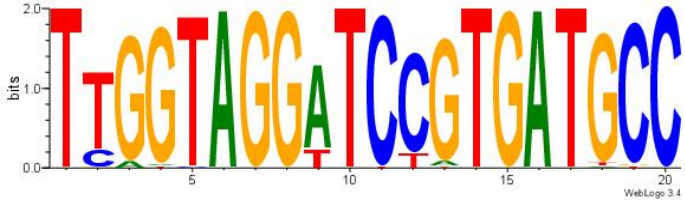

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138167

Alignment:
HAGTGGKATTGCTGGATCAT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

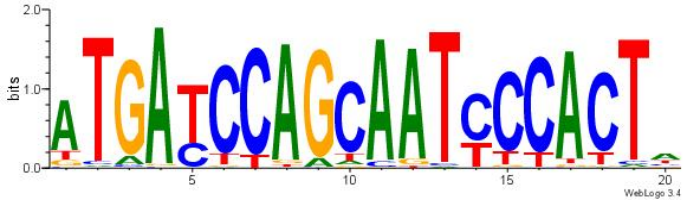

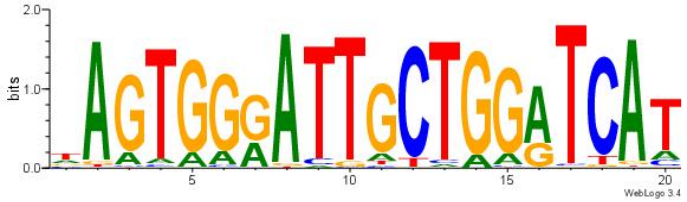

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138707

Alignment:

```
AAGACCTTCCAGTGGGACAA
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

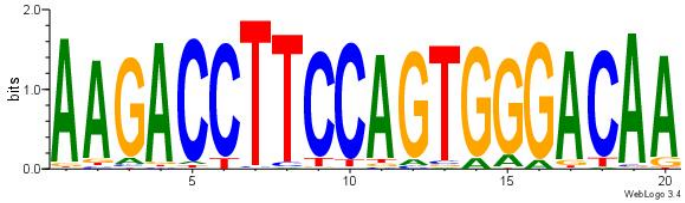

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

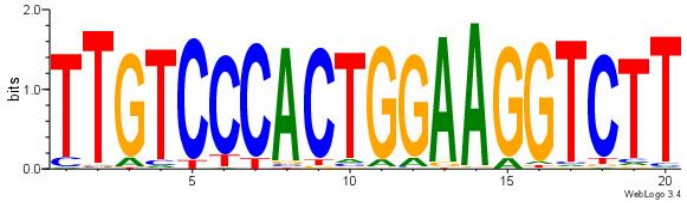

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13976

Alignment:

```
TAGATAATAGCTCCAGCTTT
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

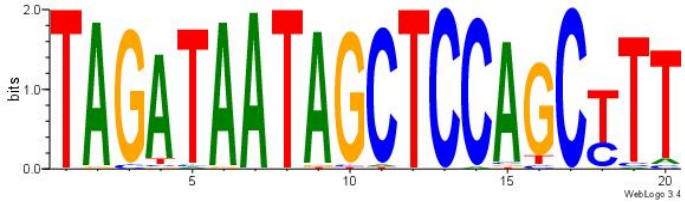

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

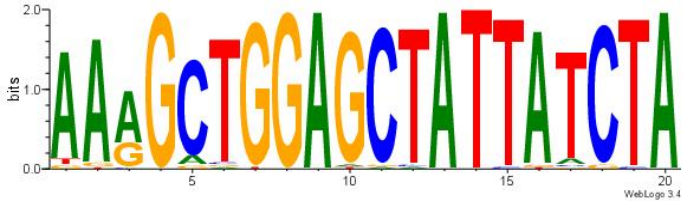

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139866

Alignment:
CATTCTGGGGTCTGGAGGAY
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

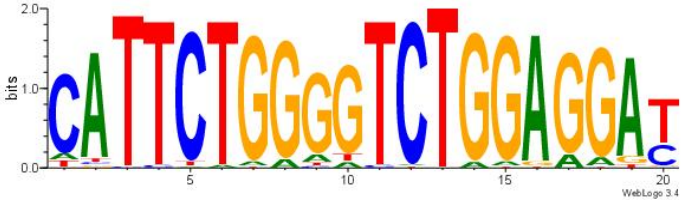

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

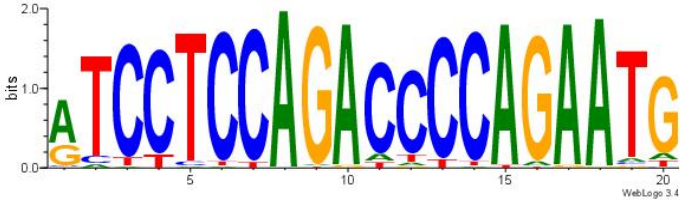

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14299

Alignment:
ATCRCTTGAGSYCAGGAGKT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

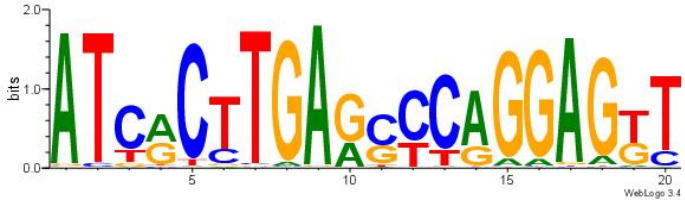

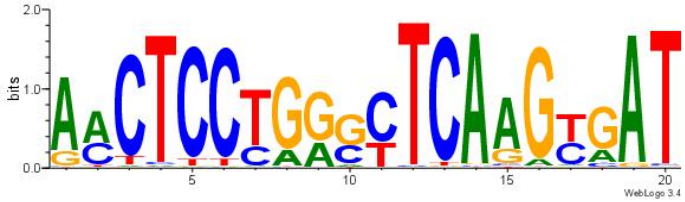

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143485

Alignment:

```
AGAGCCAAATCATGARTGAA
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

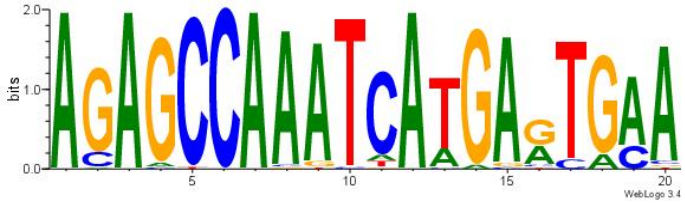

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

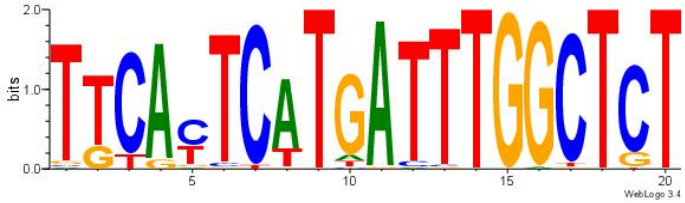

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143622

Alignment:

```
AAGTTCTKGGKTACATGTGC
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

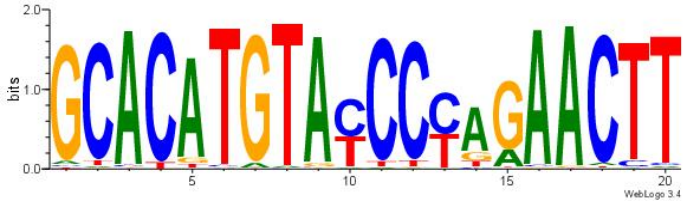

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

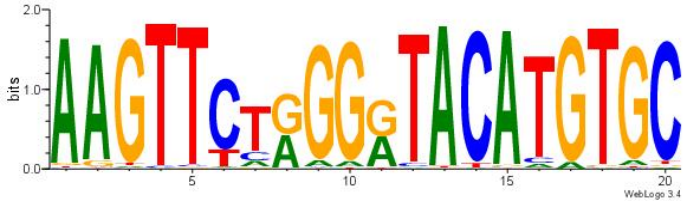

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.144084

Alignment:
AATGAKATCATGTCYTTTGC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

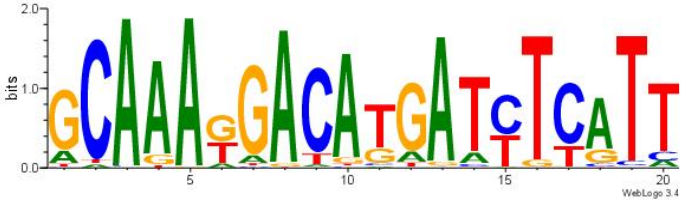

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

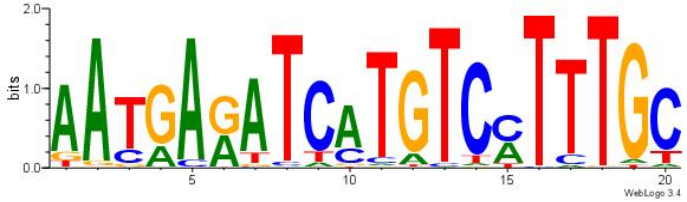

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.144642

Alignment:
ATGGAATAYTATTCAGCCAT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

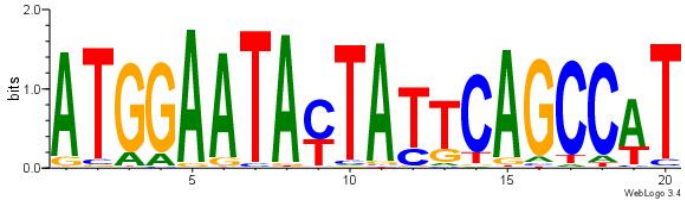

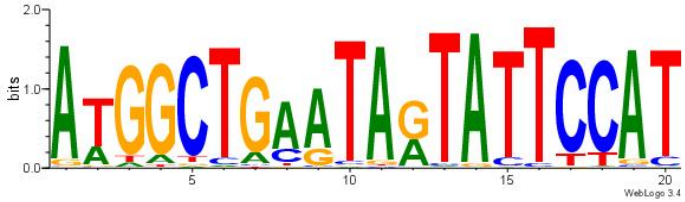

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145916

Alignment:
CTTGCCCAAGGTCACACAGC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

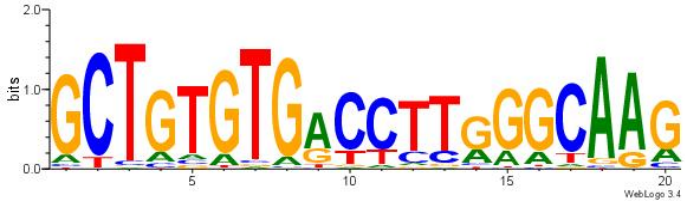

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

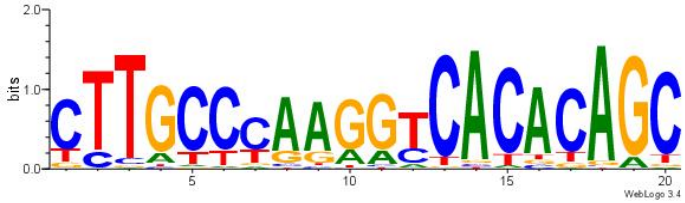

Dataset #: 1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146022

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

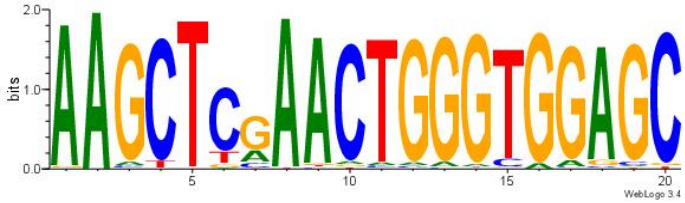

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

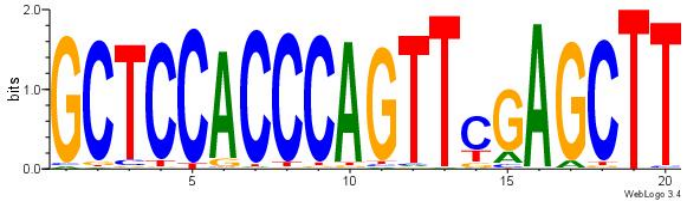

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147089

Alignment:
GGGTCAGGGAGTTCCCTTTC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

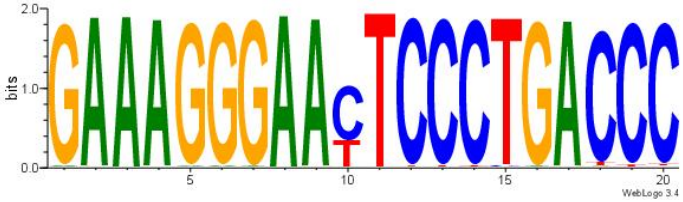

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

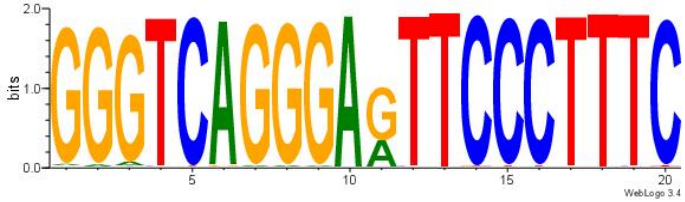

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147131

Alignment:
GTAACACTCACCGCGARGGT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

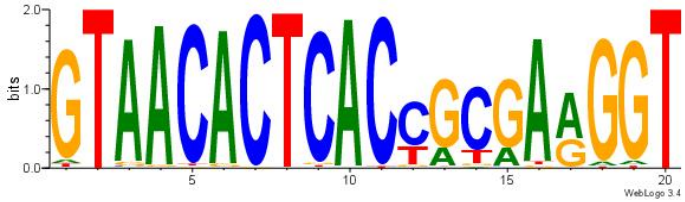

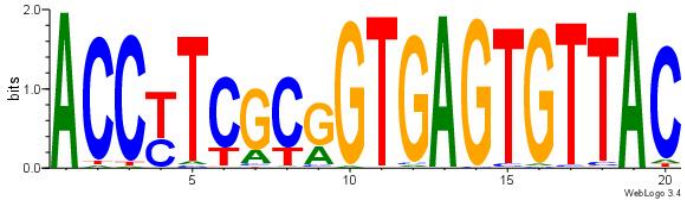

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148775

Alignment:
GGGATTGTAAATACACCAAT
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

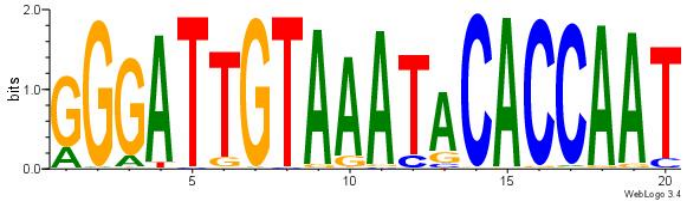

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149646

Alignment:

```
CTGGGCRACAGAGYRAGACY
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

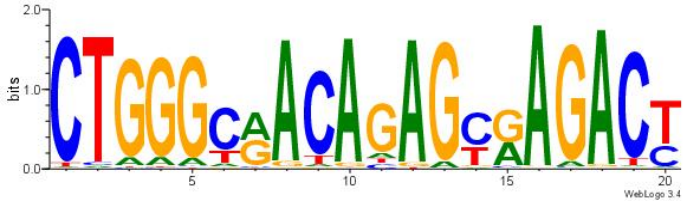

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

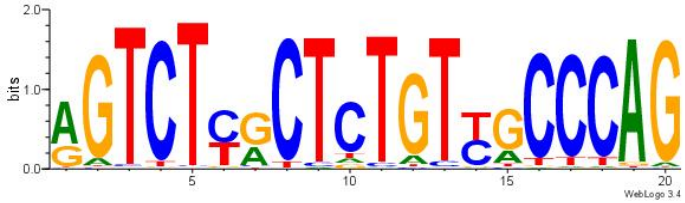

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.150238

Alignment:
AGCTGTGAGAAGAGGGCCAC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

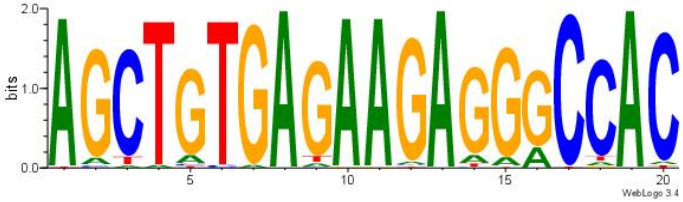

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

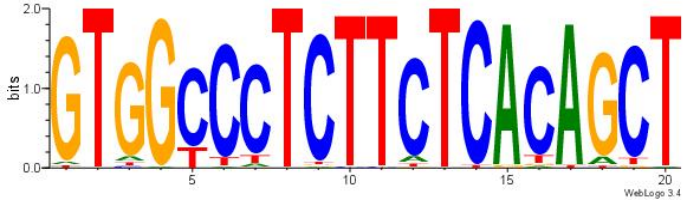

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150426

Alignment:
TCKMGCCACTGCACTCCAGC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

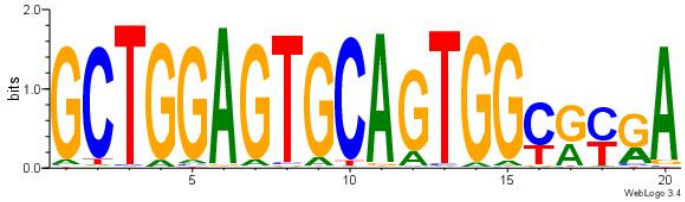

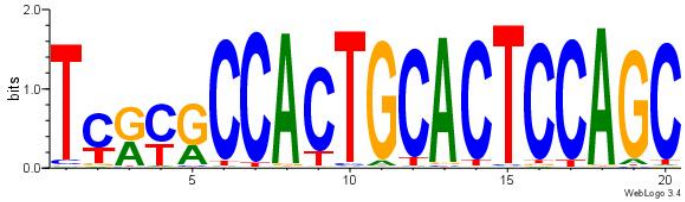

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151109

Alignment:
CCCATGCAAGTCYRAAATCC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

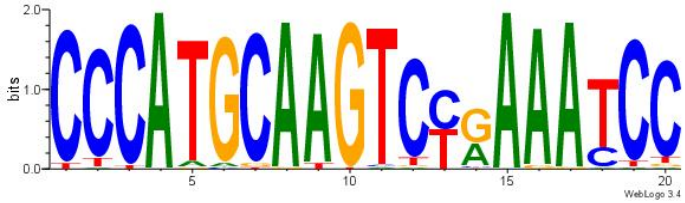

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

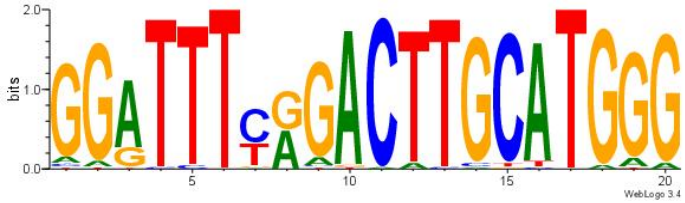

Dataset #:	1

Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151222

Alignment:

KCCGGGCCTTAGCTGCCTTC

GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

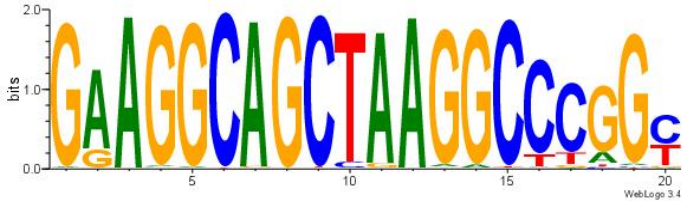

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

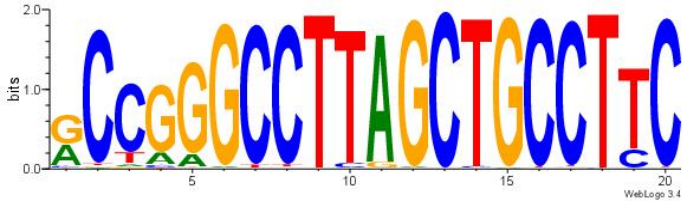

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151552

Alignment:
TCTCTCTCTCTCTCTCTCTC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

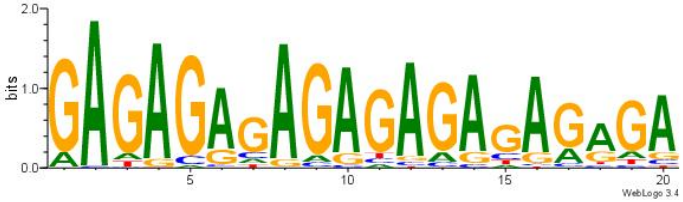

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

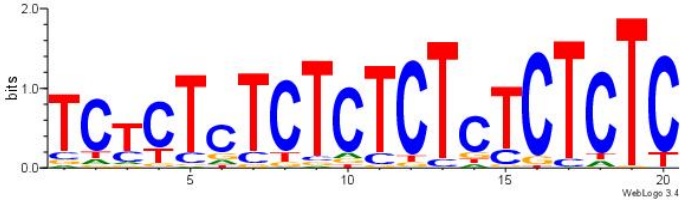

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152268

Alignment:
AAGCTGAGGGAGCCGGCTCC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

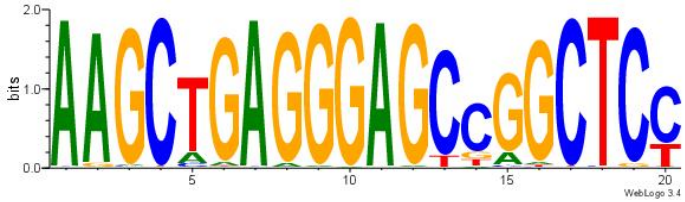

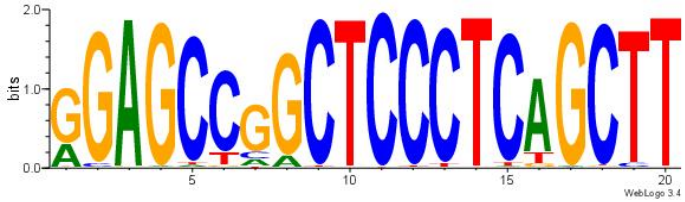

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152772

Alignment:
TYTGTCMTTTTGTGACTGGC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

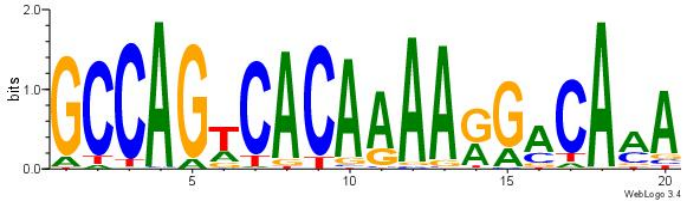

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

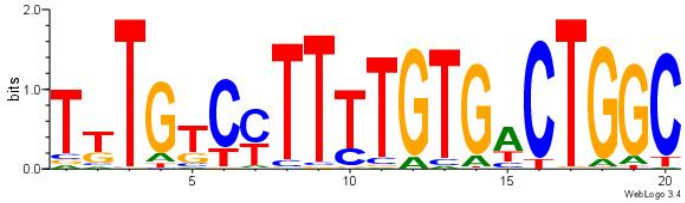

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152909

Alignment:

```
AACAACASACACTGGGGCCT
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

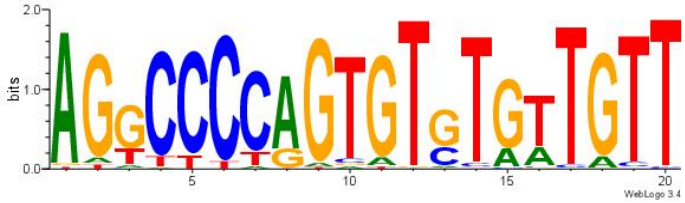

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

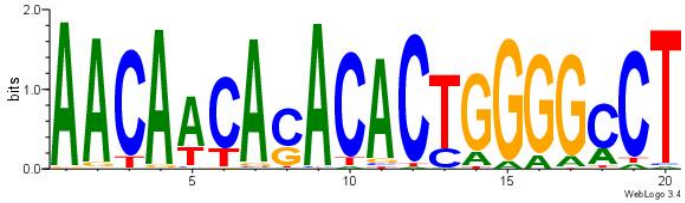

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153083

Alignment:
ATCTGACAGGAGGYRGAGCT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

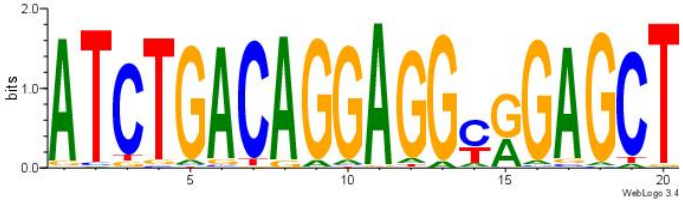

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

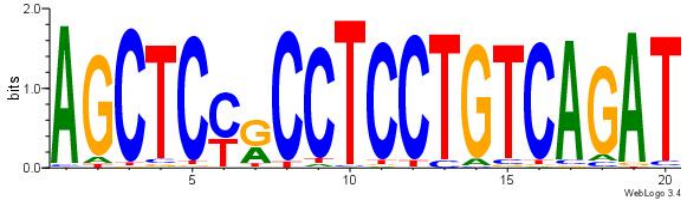

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15426

Alignment:
TCCAAATGGGAGAAATTGGC
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

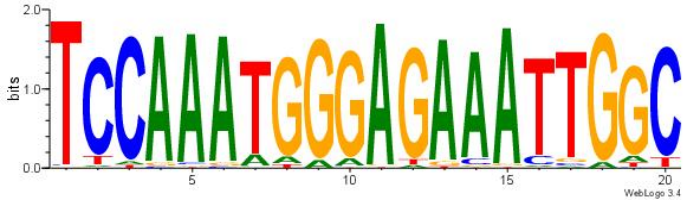

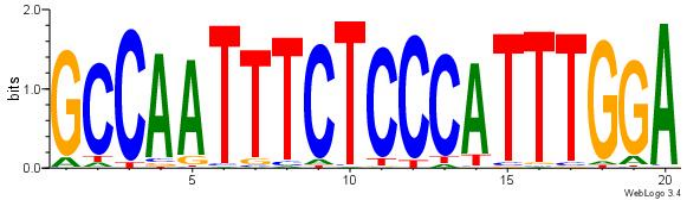

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155261

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

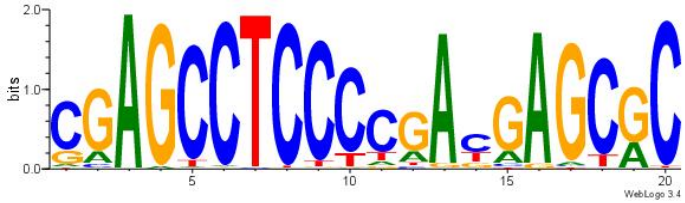

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

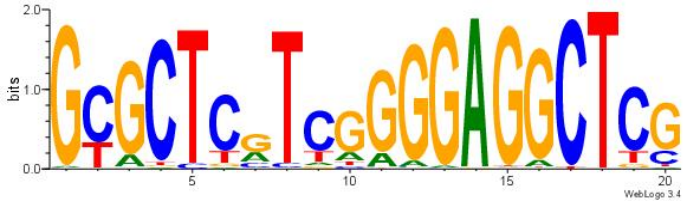

Dataset #: 1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156406

Alignment:
GACAGGAGATTAACACTGAG
AAATTAGGCCAATTAATAAC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

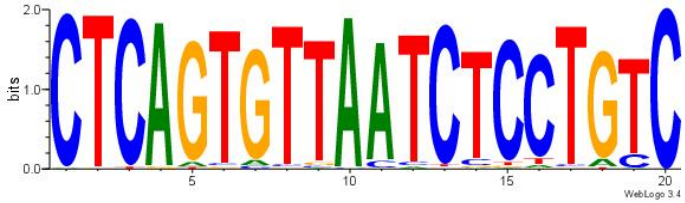

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

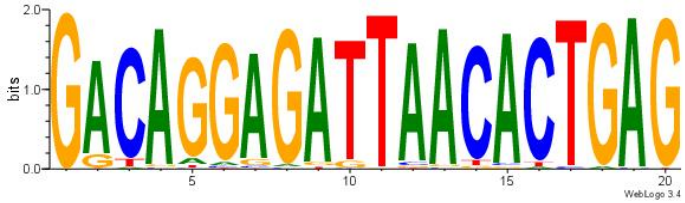

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156427

Alignment:
CAAGGGTATAYGAGTAGCTG
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

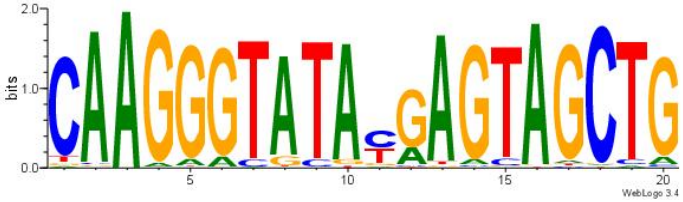

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

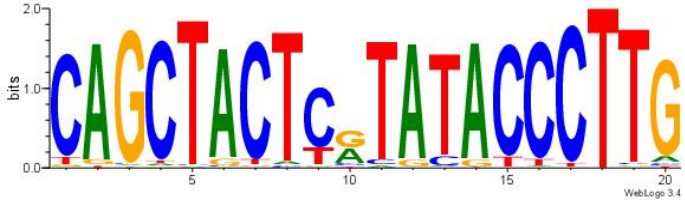

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.15682

Alignment:
ACTCCCTAGTGAGATGAACC
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

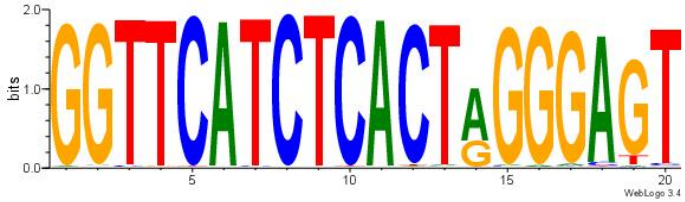

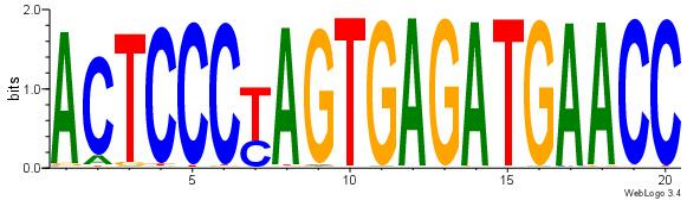

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157032

Alignment:

```
AAGGAACAAACTCCRGACAC
AAATTAGGCCAATTAATAAC
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

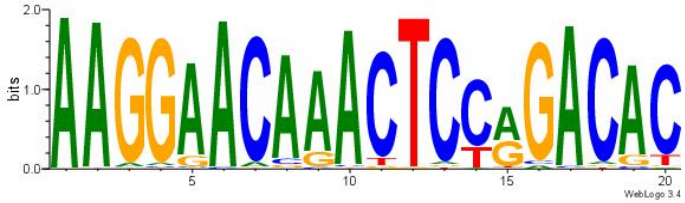

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

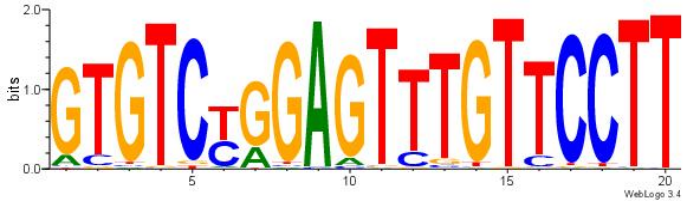

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157405

Alignment:

```
TAAAAGACTACAWATTGGGT
GTTATTAATTGGCCTAATTT
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

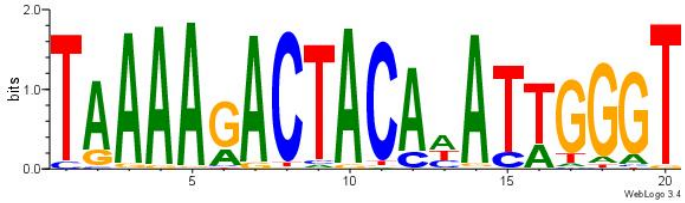

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

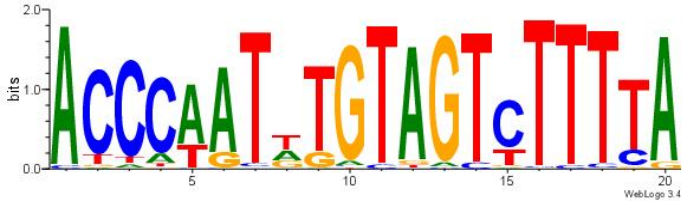

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157874

Alignment:
CAGGTGGTKTTTGGTTACAT
GTTATTAATTGGCCTAATTT

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

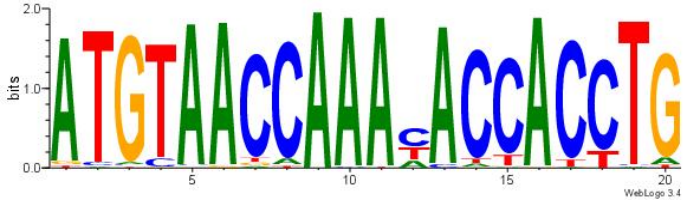

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

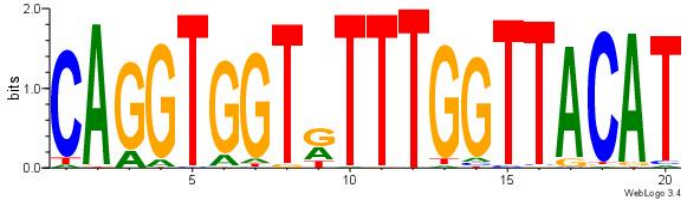

Dataset #: 1 Motif ID: 309 Motif name: Motif 309

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

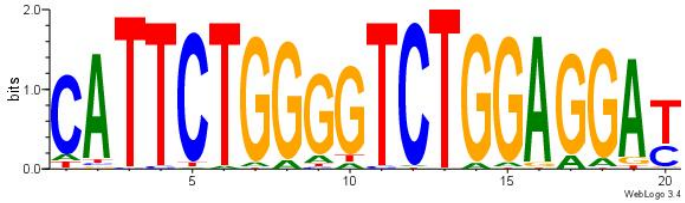

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

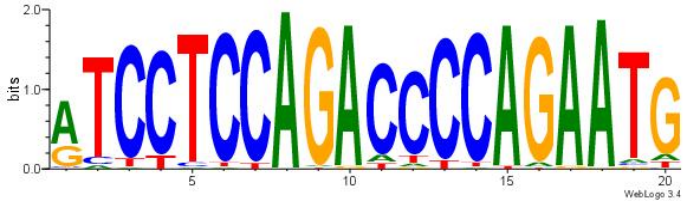

Best Matches for Motif ID 309 (Highest to Lowest)

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.116685

Alignment:

```
AGCCYCTGGYAACCAYYAWT
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

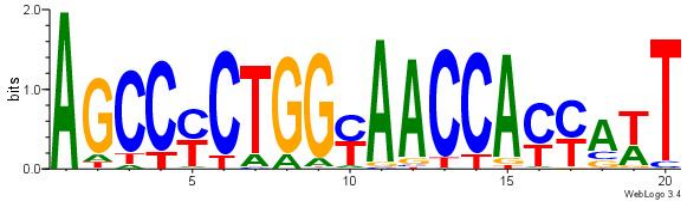

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

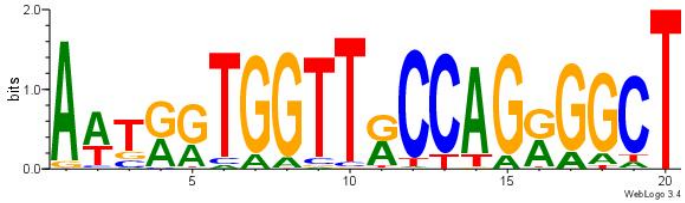

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.118752

Alignment:

ATGATCCAGCAATYCCACTH
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

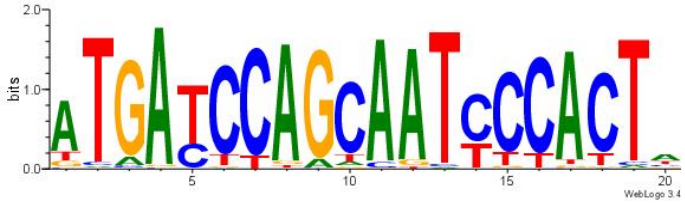

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

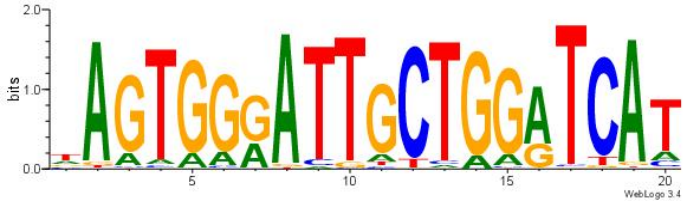

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122145

Alignment:
GTGTCKGGAGTTTGTTCCTT
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

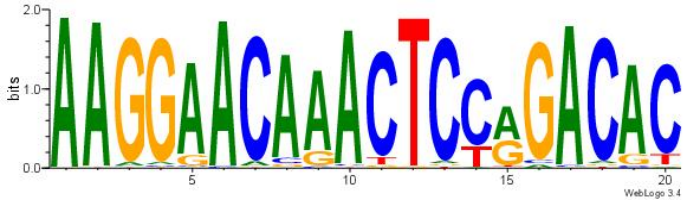

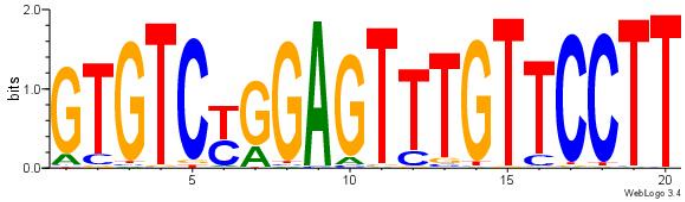

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.126441

Alignment:

```
AAGTCCAAGATCAAGGTGYY
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

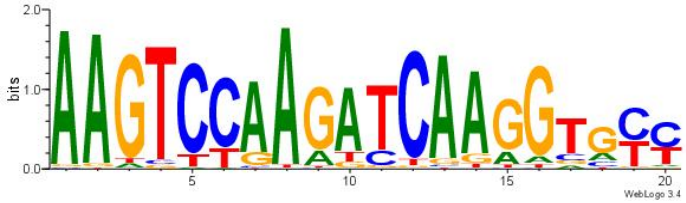

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

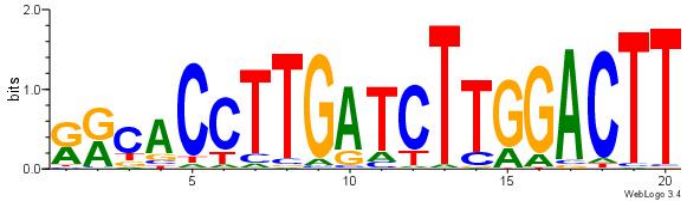

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127396

Alignment:

```
ACACATCACAAAGCAGTTTC
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

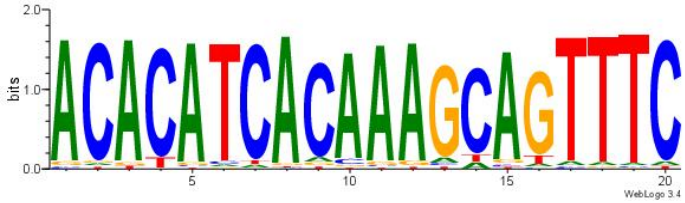

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

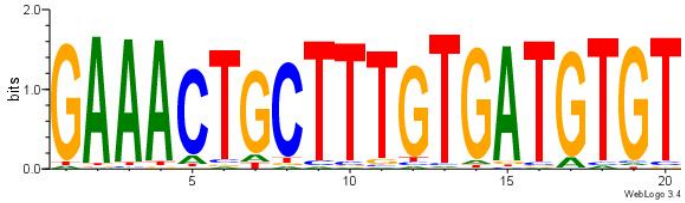

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.128446

Alignment:
AGCTCMKCCTCCTGTCAGAT
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

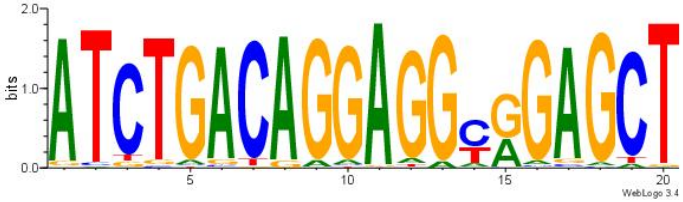

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

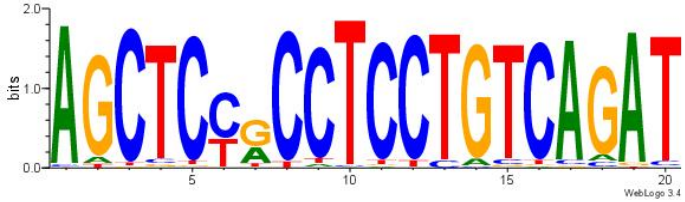

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.133876

Alignment:
TCCCTCCCGGACGGGGYGGC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

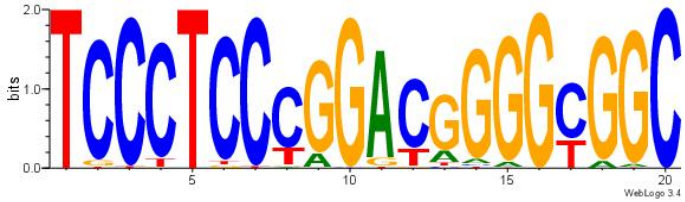

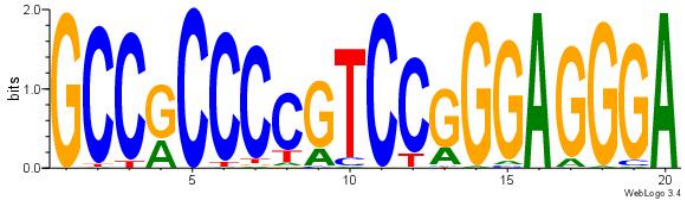

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134413

Alignment:

```
CTCCAGKTMCATCCATGTTG
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

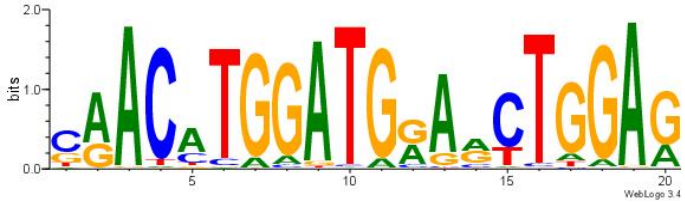

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

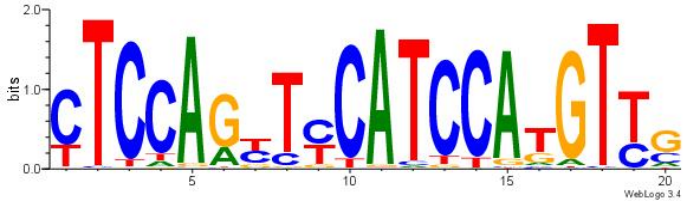

Dataset #: 1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134544

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

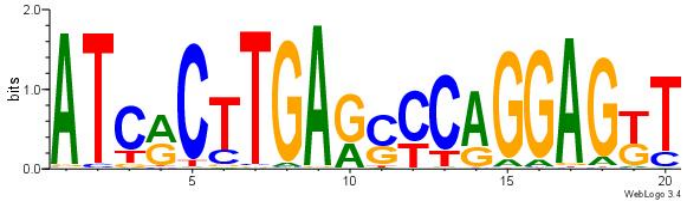

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

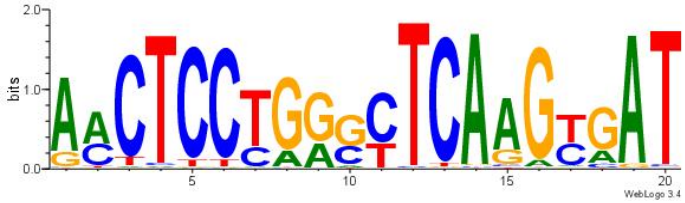

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.135585

Alignment:
CGTCGCTCACGCTGGGAGCT
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

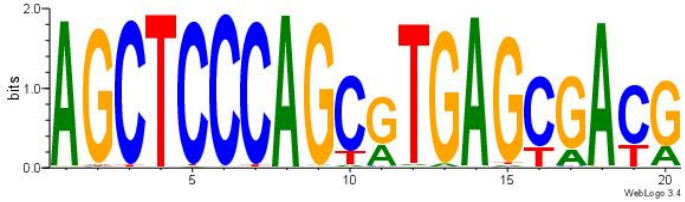

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

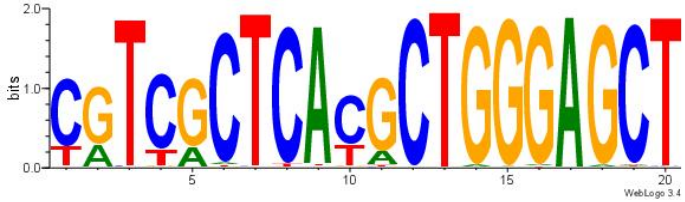

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.13586

Alignment:
CCCATGCAAGTCYRAAATCC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

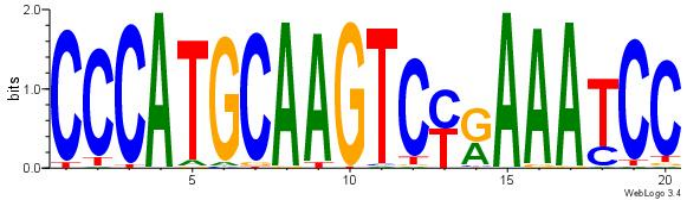

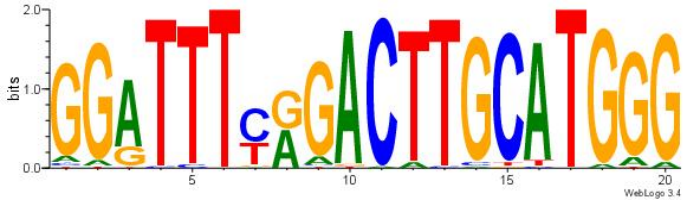

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136148

Alignment:

```
GGTTCATCTCACTAGGGAGT
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

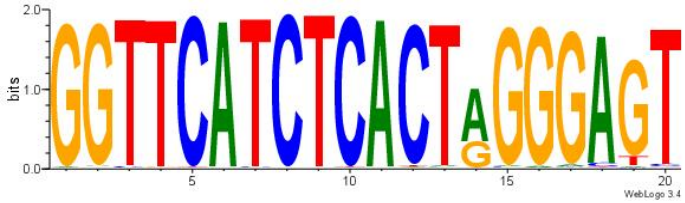

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

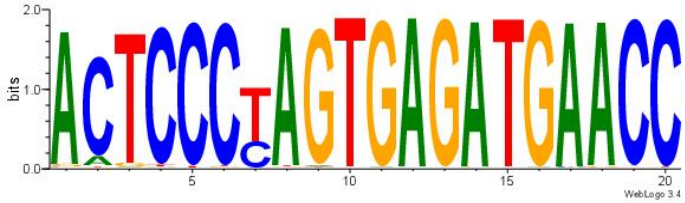

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13935

Alignment:

```
CAAGTTGACACATAAAATTA
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

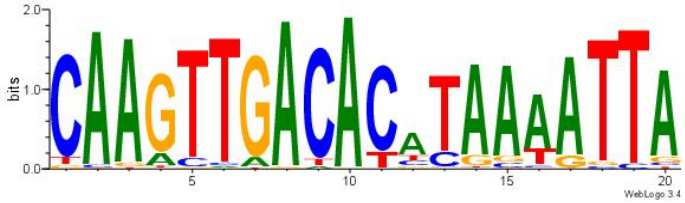

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

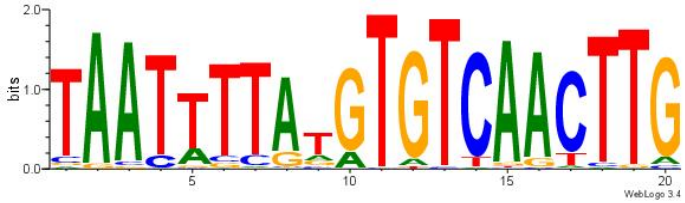

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139677

Alignment:
MGGGATATAATCTCCTGGTG
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

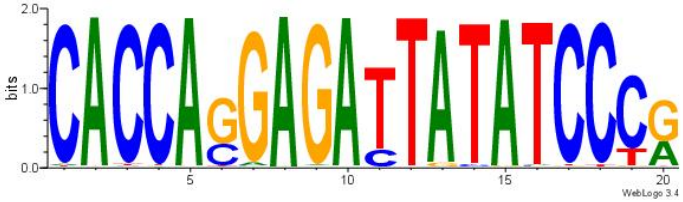

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

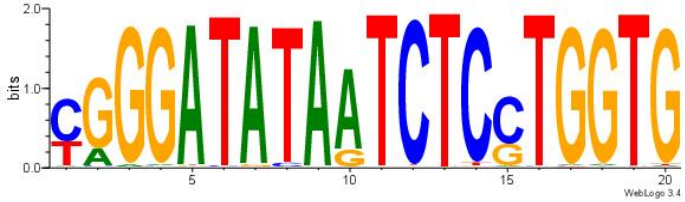

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140375

Alignment:
CTCCTGCCTCAGCCTCCCRA
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

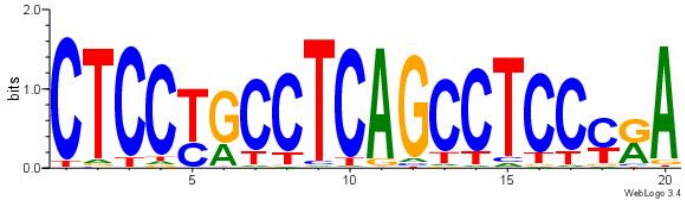

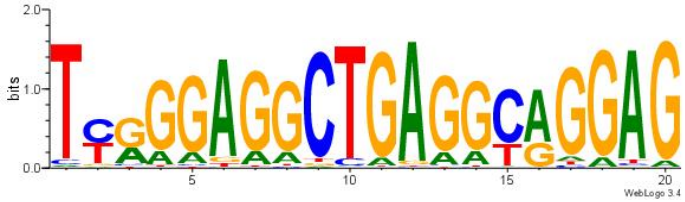

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141516

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

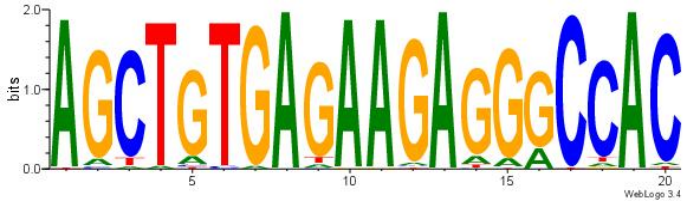

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

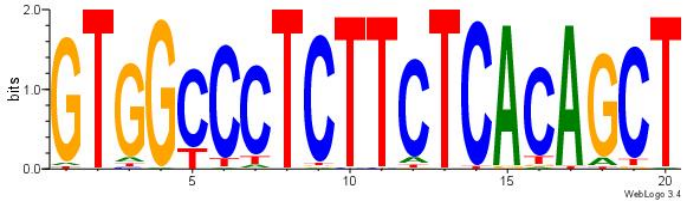

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142703

Alignment:
AAATTAGGCCAATTAATAAC
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

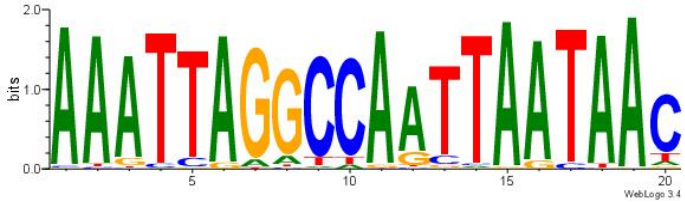

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.143575

Alignment:
CCACCACAGCTCAAGGAGGC
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

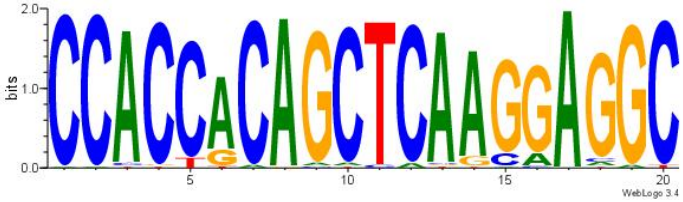

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

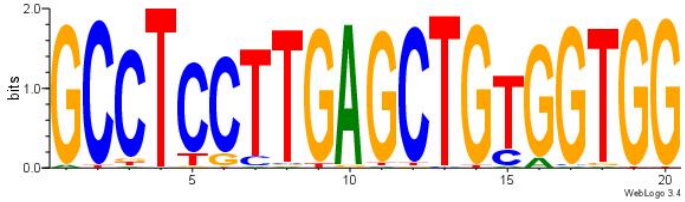

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14361

Alignment:
TCKMGCCACTGCACTCCAGC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

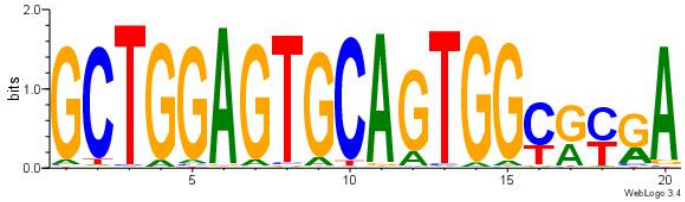

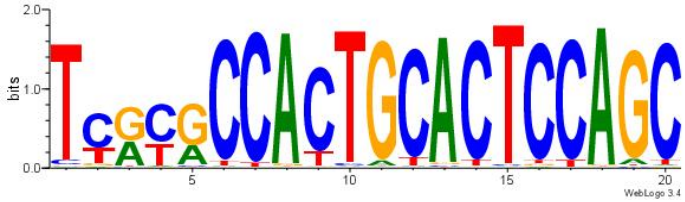

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144076

Alignment:

```
CAGGTGGTKTTTGGTTACAT
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

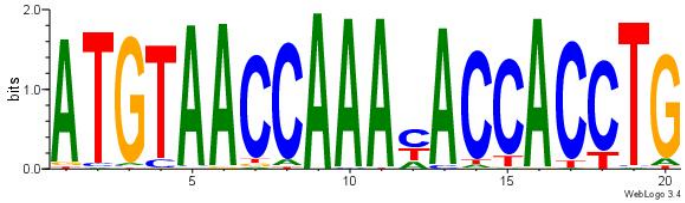

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

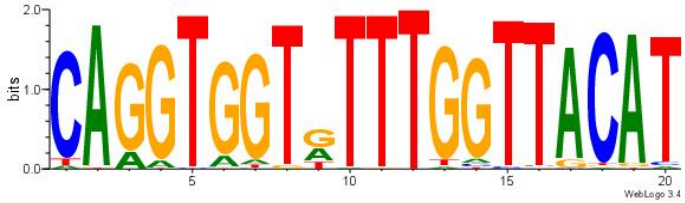

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144936

Alignment:
CCCMKGGCACCCTCAGTCCT
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

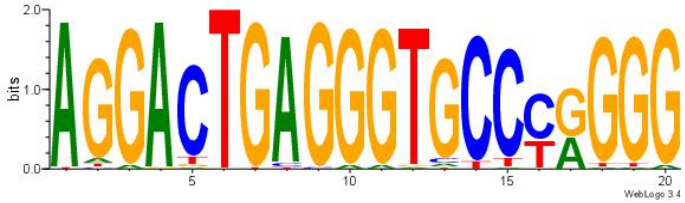

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

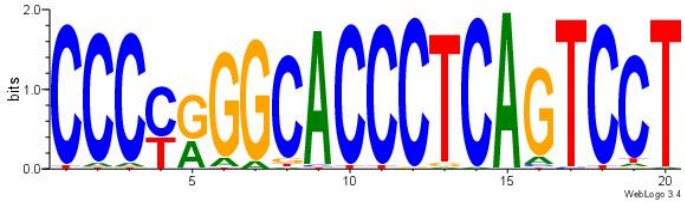

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145483

Alignment:
AACAACASACACTGGGGCCT
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

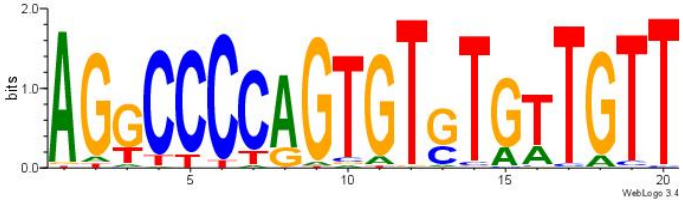

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

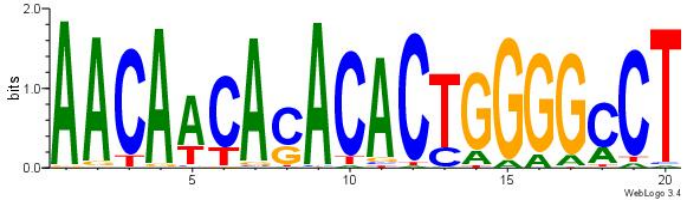

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146518

Alignment:
GACTGGCAGGCAGCTCCACC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

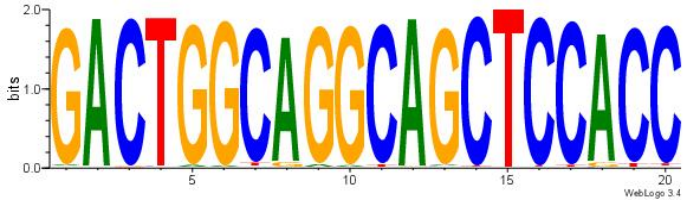

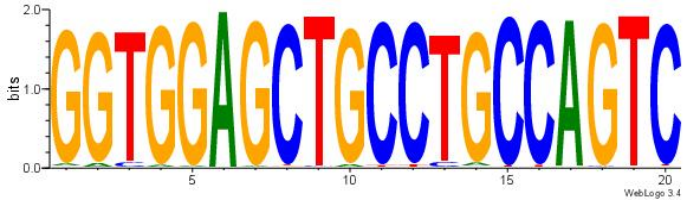

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148986

Alignment:
GGGAGGTGTCTCCCAGTCAG
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

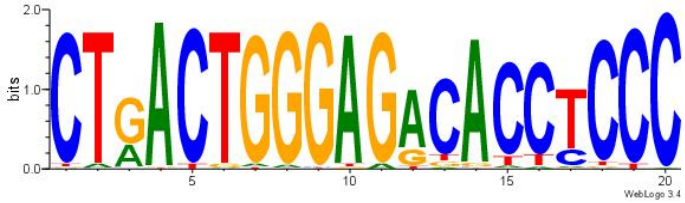

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

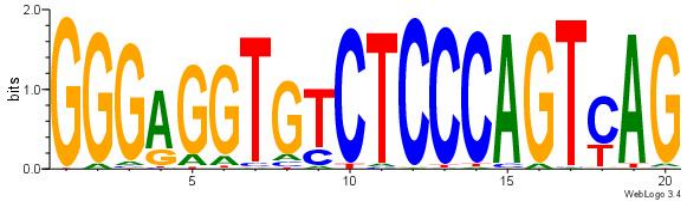

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149368

Alignment:
AGGTTTGTTACATAGGTAWA
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

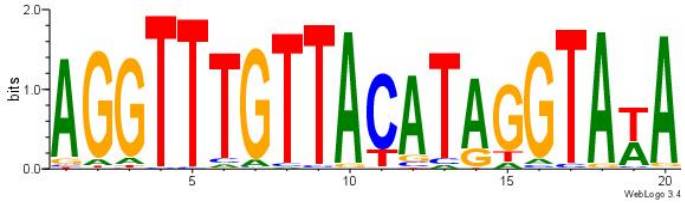

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

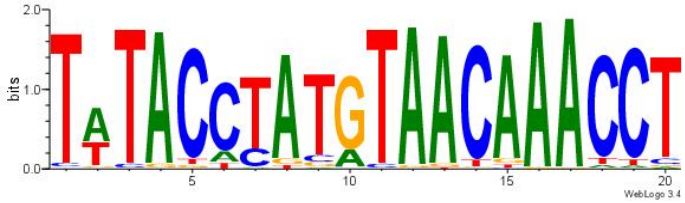

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149505

Alignment:
TAGATAATAGCTCCAGCTTT
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

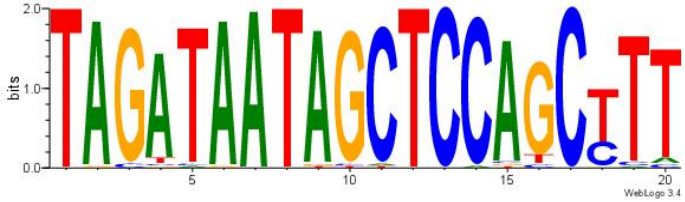

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

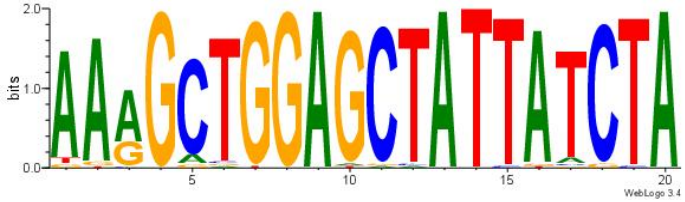

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150171

Alignment:
GTGCCAGGCACTGTKCTARG
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

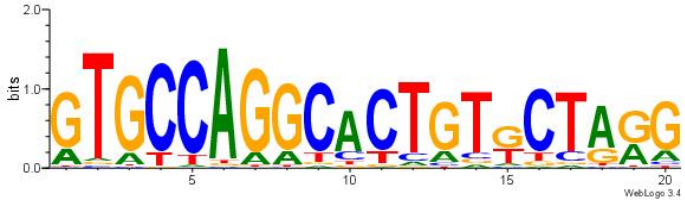

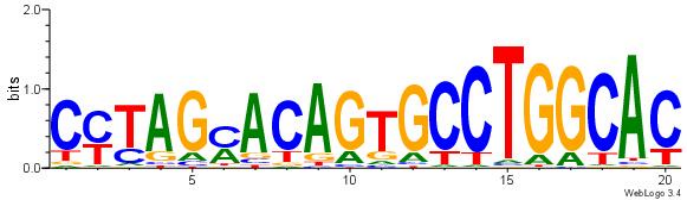

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15119

Alignment:

```
AAGCTCGAACTGGGTGGAGC
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

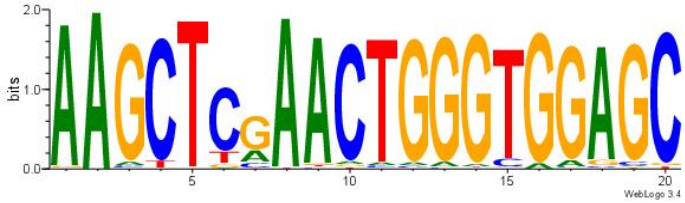

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

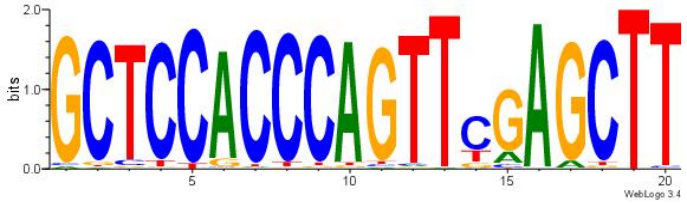

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151576

Alignment:

GCTGTGTGACCTTGGGCAAG

CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

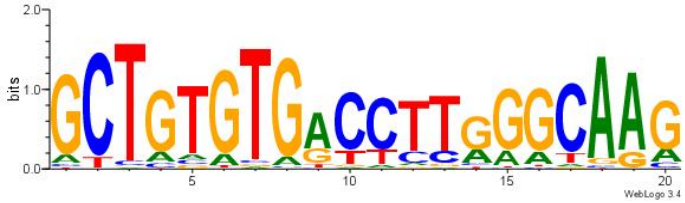

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

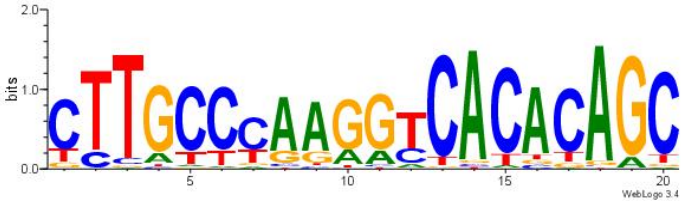

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151795

Alignment:
TGGCTTCACCCAGTGGATCC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

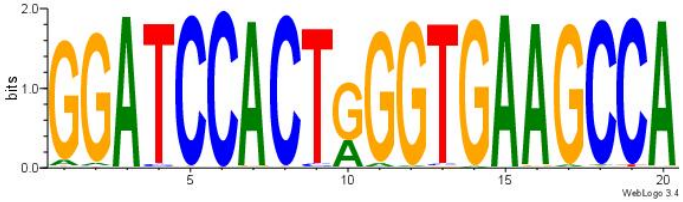

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

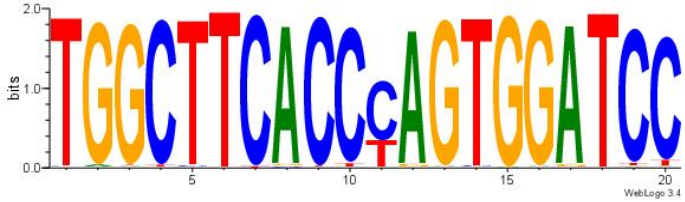

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.151898

Alignment:
CTGGGCRACAGAGYRAGACY
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

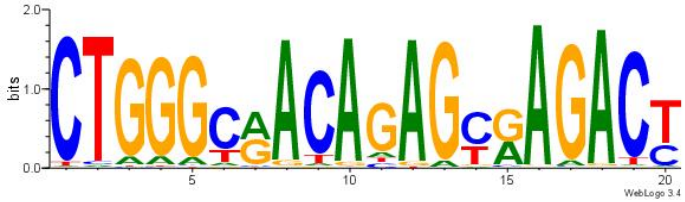

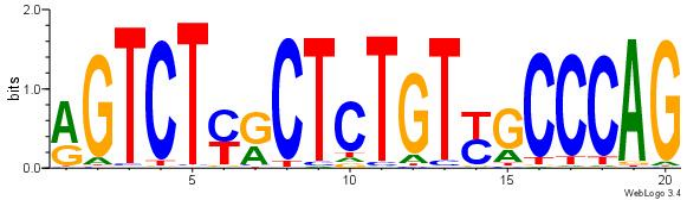

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15191

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

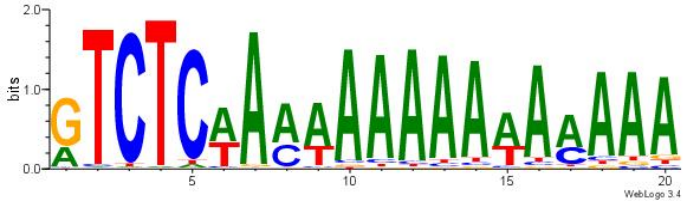

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

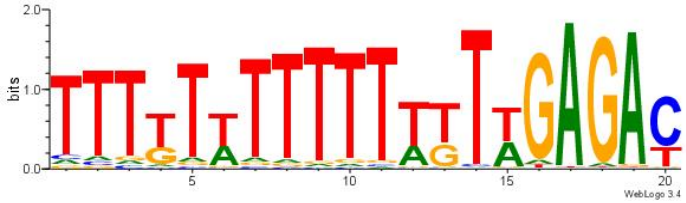

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152633

Alignment:

```
ATGGAATAYTATTCAGCCAT
MTCCTCCAGACCCCAGAATG
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

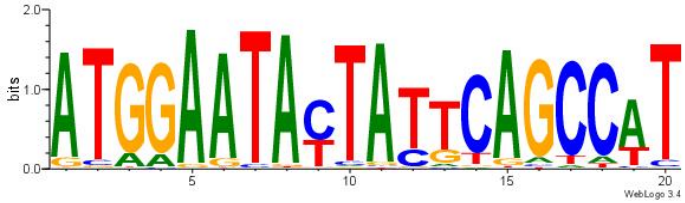

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

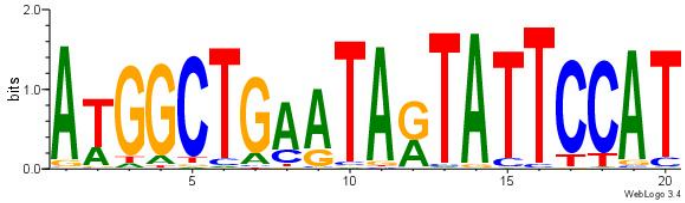

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153269

Alignment:
ATGGACAYTTRGGTTGHTTC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

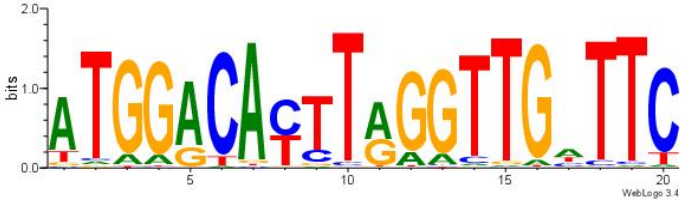

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

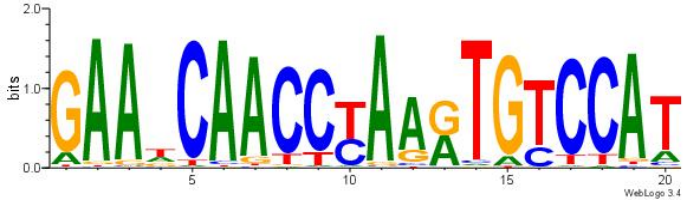

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.153342

Alignment:
GCACATGTAYCCYAGAACTT
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

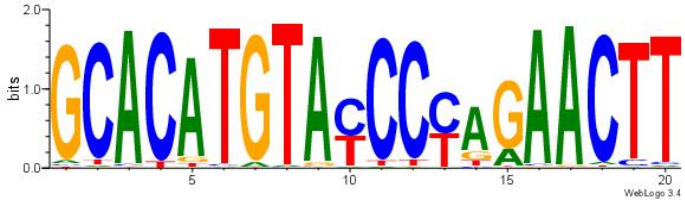

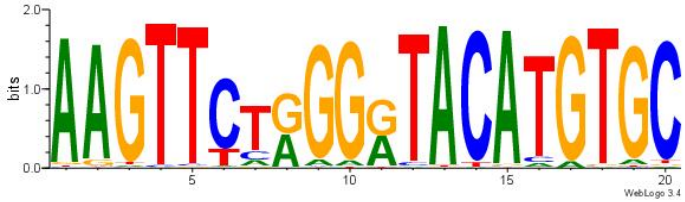

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154458

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

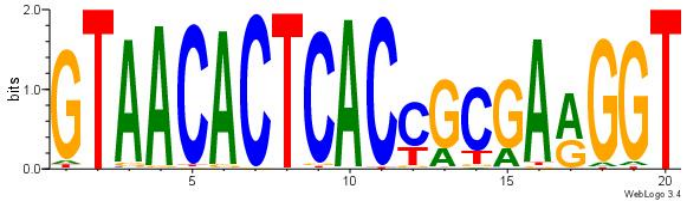

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

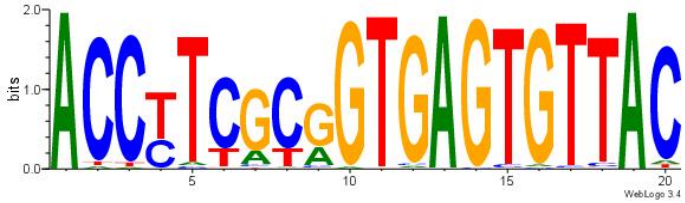

Dataset #:	1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155303

Alignment:
GAAAGGGAACTCCCTGACCC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

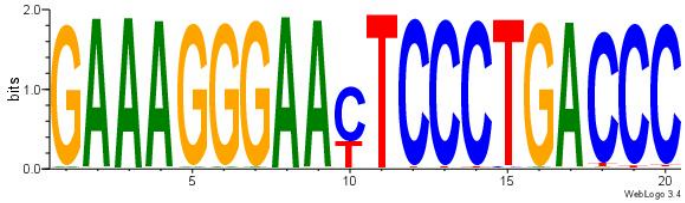

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

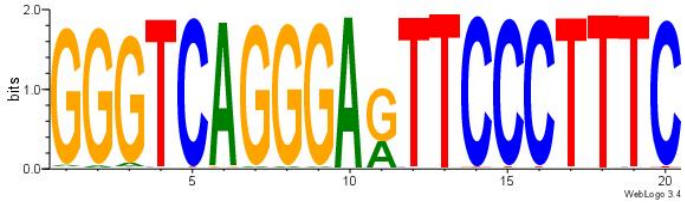

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155526

Alignment:
GCCAGTCACAAAARGACAMA
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

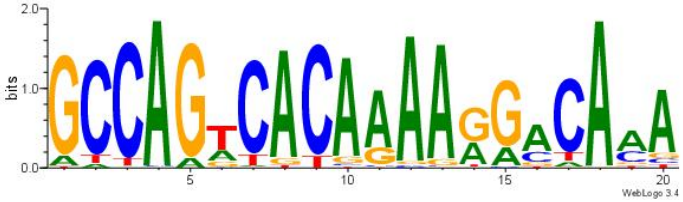

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

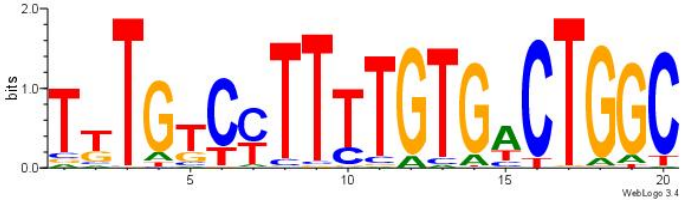

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155626

Alignment:
GGAGCCGGCTCCCTCAGCTT
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

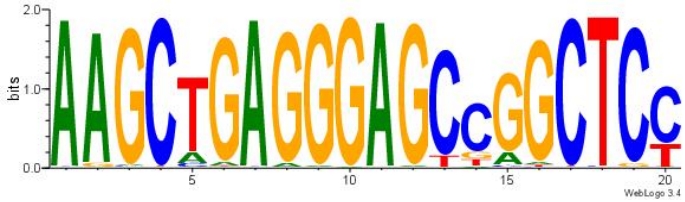

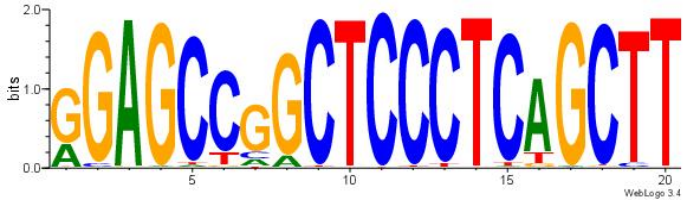

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155911

Alignment:

```
TACCTGAGACTGGGTAATTT
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

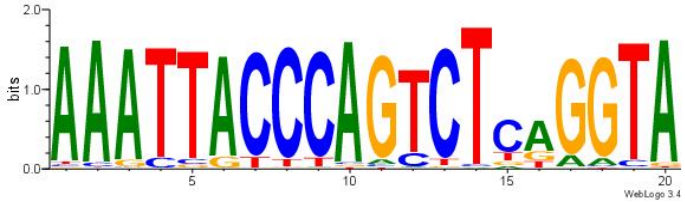

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

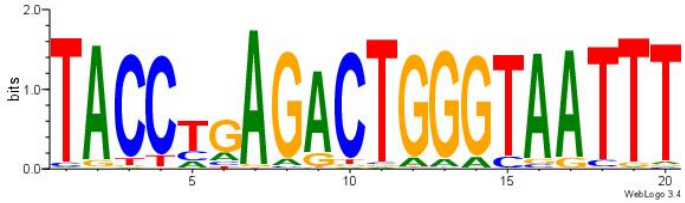

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155989

Alignment:
GAGAGAGAGAGAGAGAGAGA
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

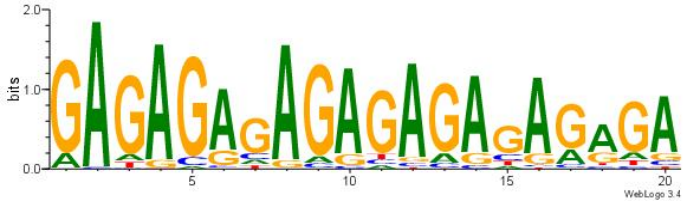

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

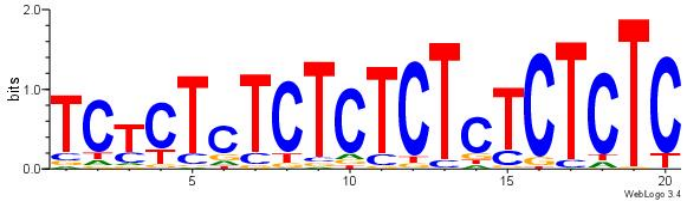

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155999

Alignment:
CAAGCCTSKGCAATGGCAGG
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

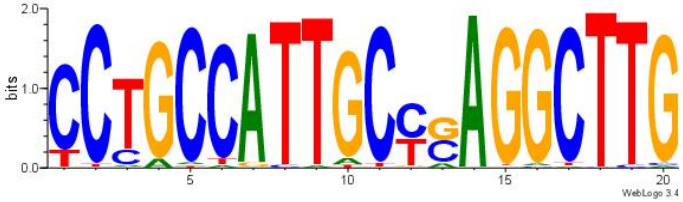

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

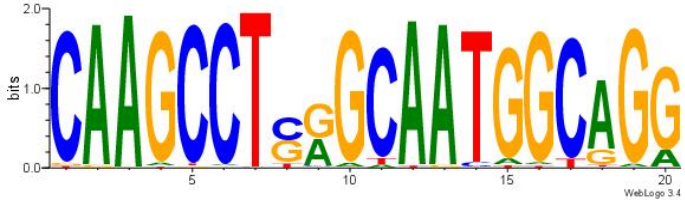

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.156442

Alignment:
ACTGTCTTCCACCTCCACAT
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

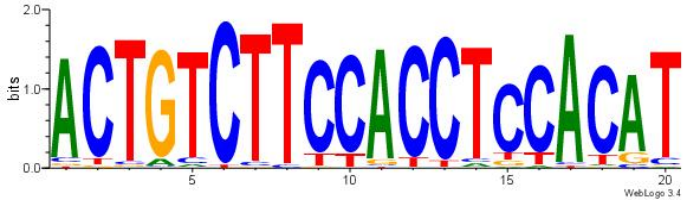

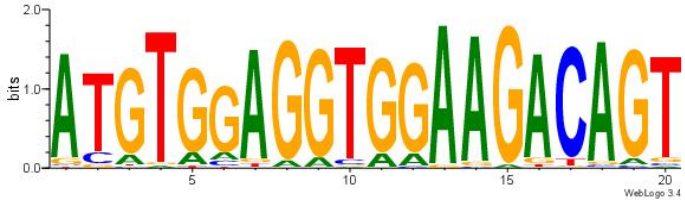

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.157054

Alignment:
TGCTGGAGGTCCACTCCAGA
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

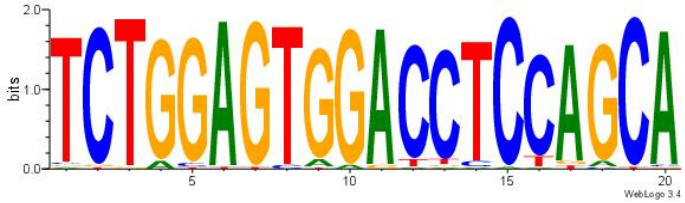

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

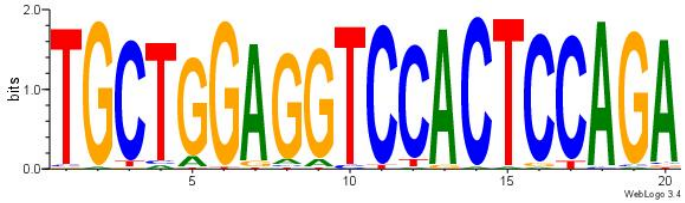

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157261

Alignment:
AAGACCTTCCAGTGGGACAA
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

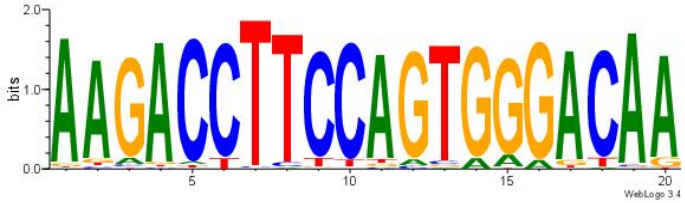

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

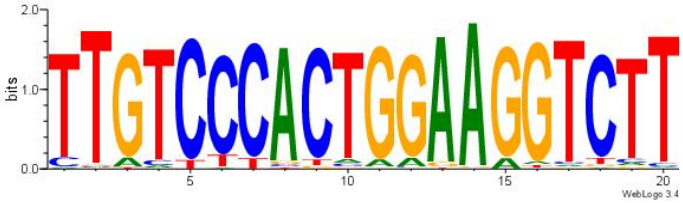

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157264

Alignment:
CTGGCCCTCAATGGTTAAAC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

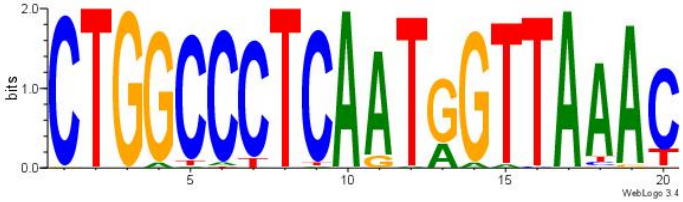

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

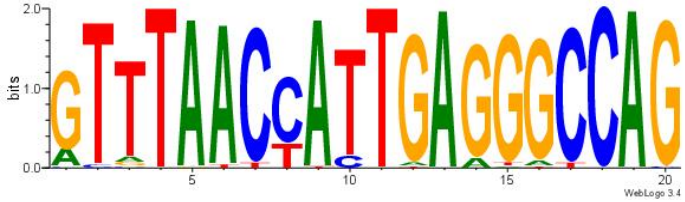

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157892

Alignment:
GGCACTGCTGGGGGACCCAG
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

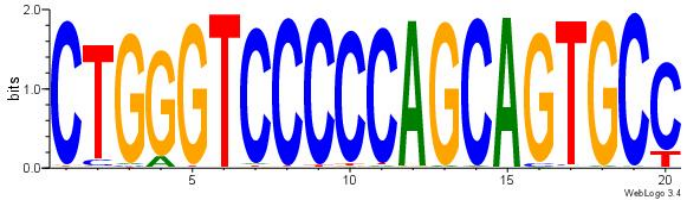

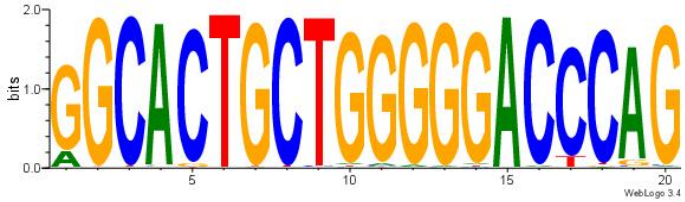

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157899

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CATTCTGGGGTCTGGAGGAY
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

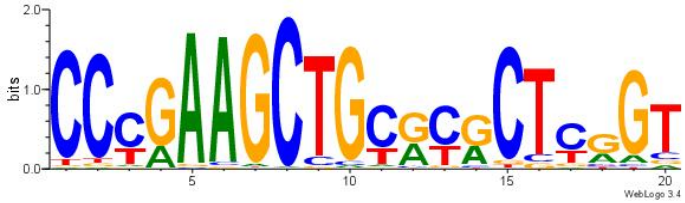

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

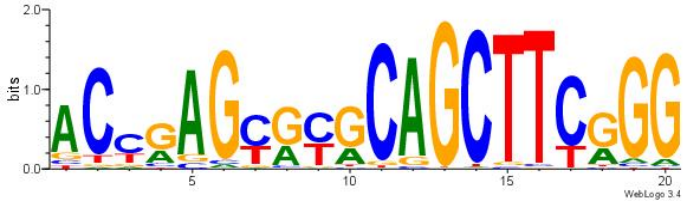

Dataset #:	1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15791

Alignment:
GCCTCTCCCTCCACACCTCC
MTCCTCCAGACCCCAGAATG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

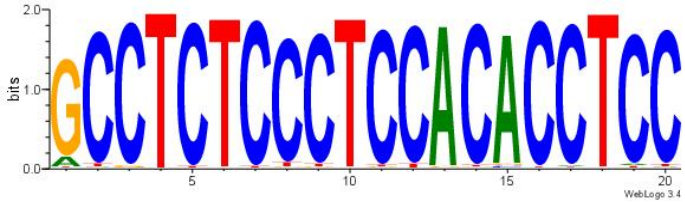

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

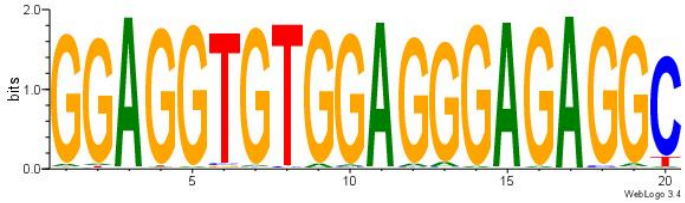

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.158228

Alignment:
TTGGTAGGATCCGTGATGCC
CATTCTGGGGTCTGGAGGAY

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

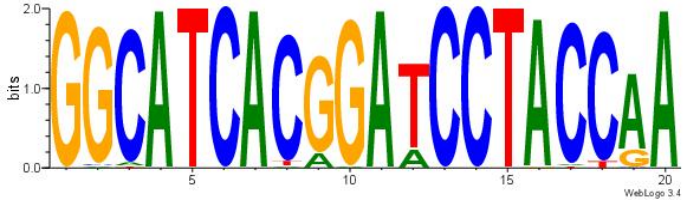

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

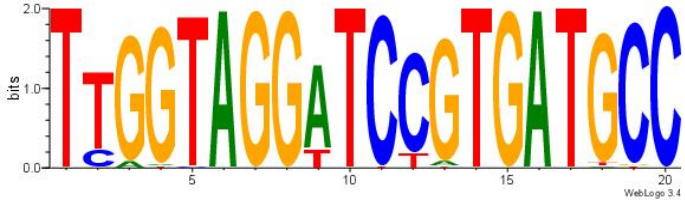

Dataset #: 1 Motif ID: 310 Motif name: Motif 310

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

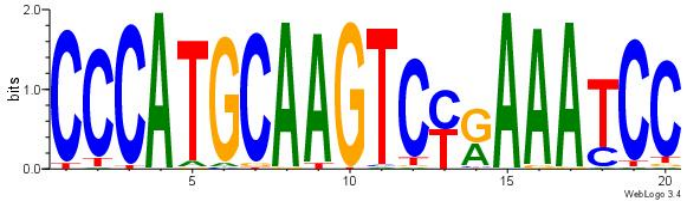

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

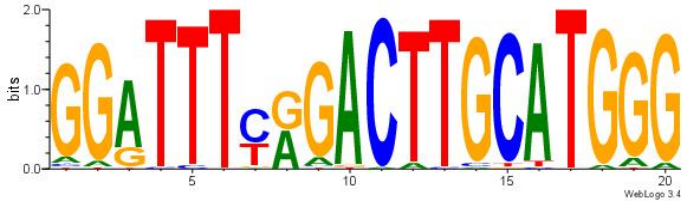

Best Matches for Motif ID 310 (Highest to Lowest)

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.119136

Alignment:

```
CCGCTGCACTGTGGGAGCCC
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

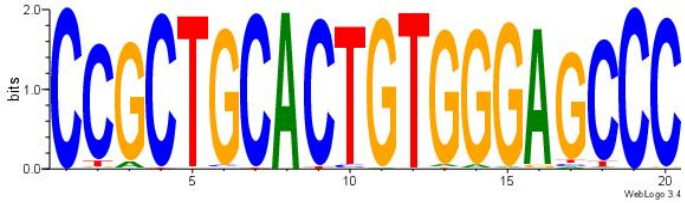

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

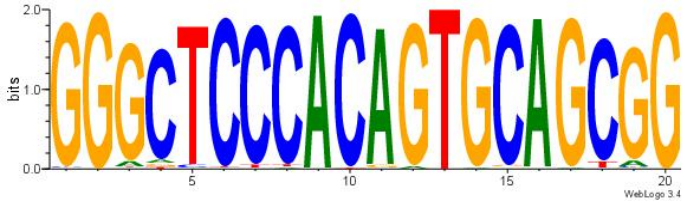

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119991

Alignment:

GAAAGGGAACTCCCTGACCC
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

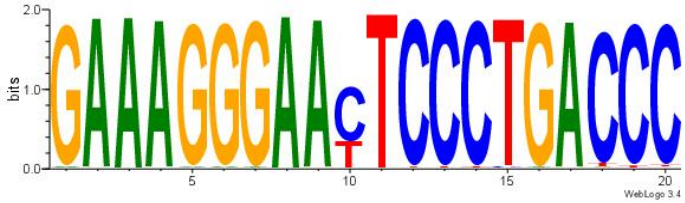

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

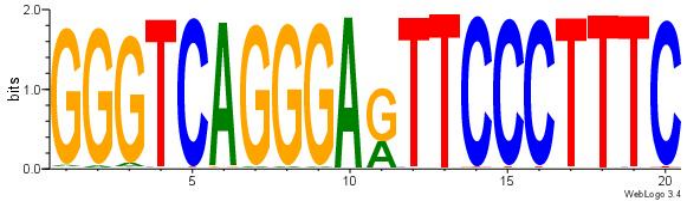

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.121495

Alignment:
CCCMKGGCACCCTCAGTCCT
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

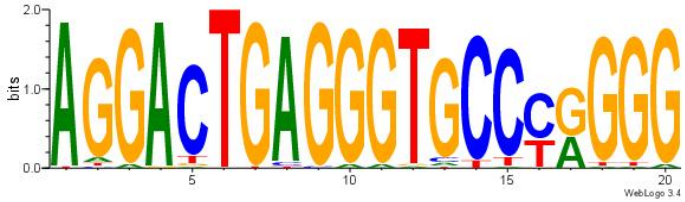

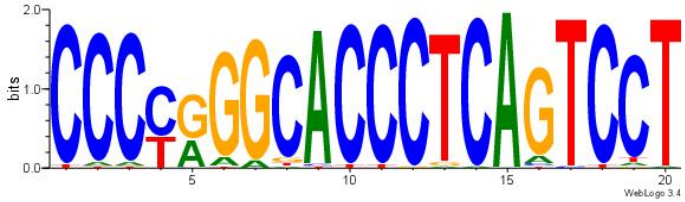

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128302

Alignment:

```
TWTACCTATGTAACAAACCT
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

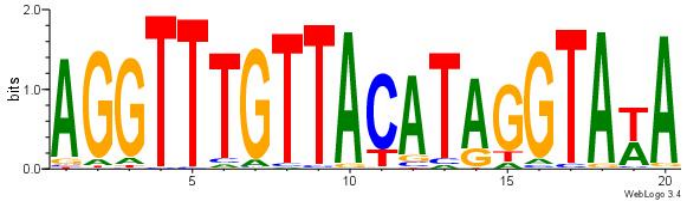

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

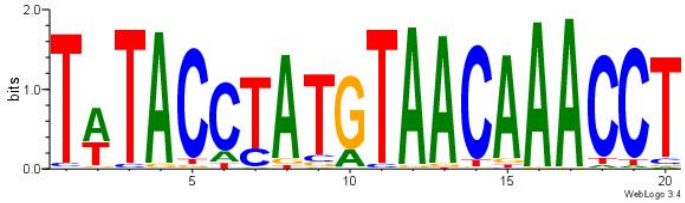

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128336

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

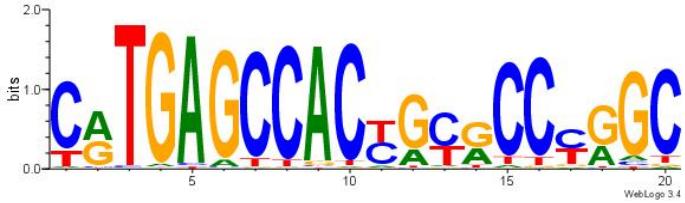

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

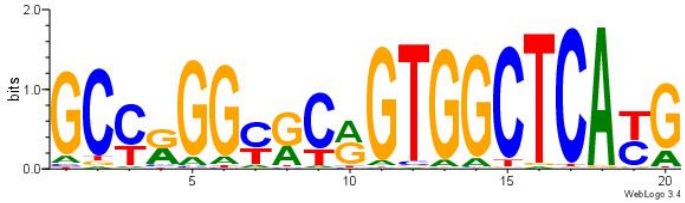

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131318

Alignment:
CCACCACAGCTCAAGGAGGC
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

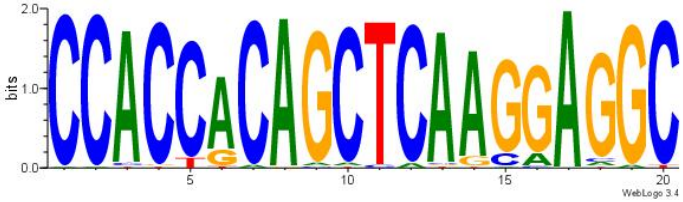

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

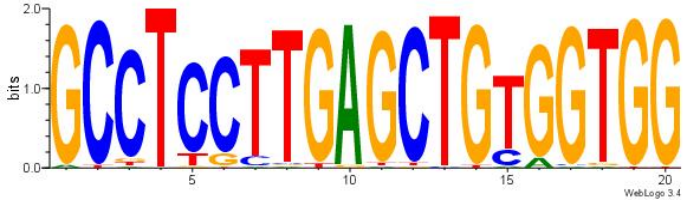

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133667

Alignment:
AGTGACCCGATTTTCCAGGT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

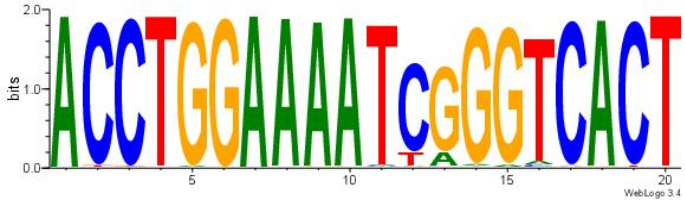

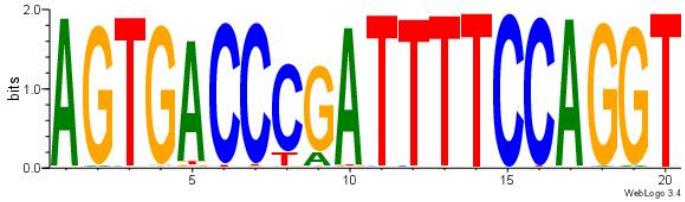

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135681

Alignment:
GCCKCCCCGTCCGGGAGGGA
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

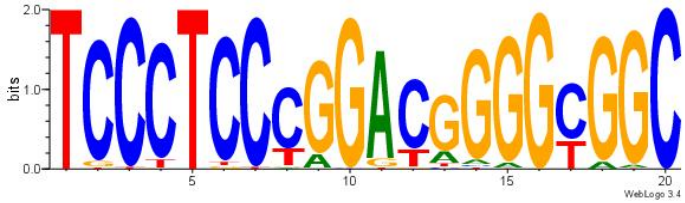

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

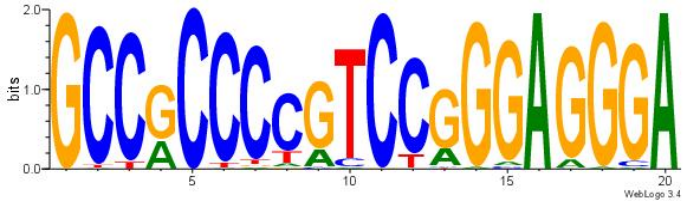

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135748

Alignment:

```
CAAGTTGACACATAAAATTA
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

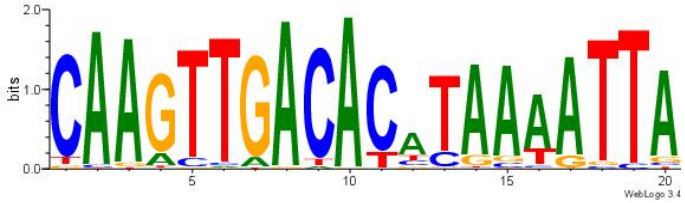

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

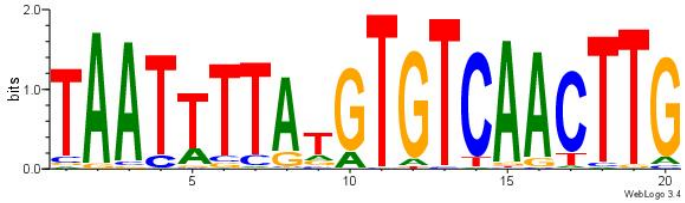

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.135949

Alignment:
ACCKTCGCGGTGAGTGTTAC
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

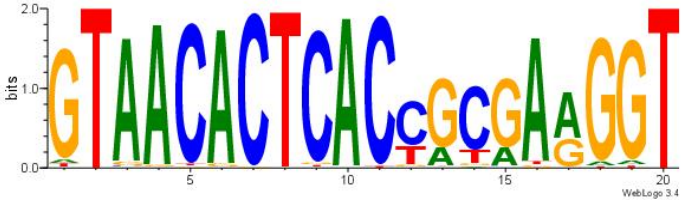

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

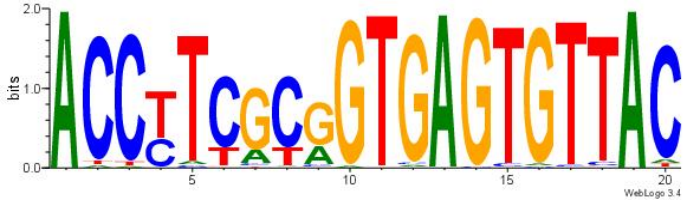

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.13645

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

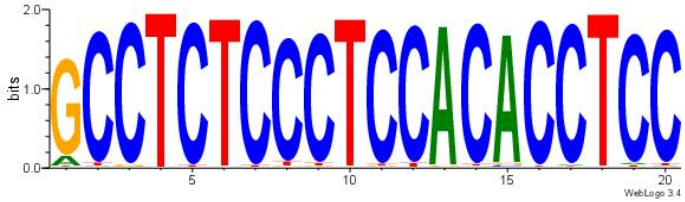

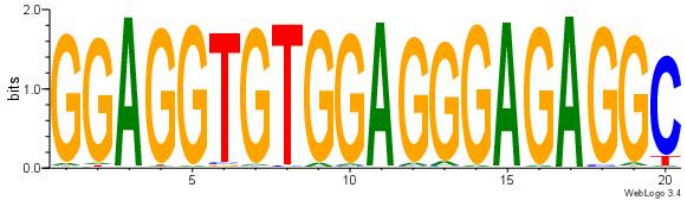

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136707

Alignment:

```
CATTCTGGGGTCTGGAGGAY
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

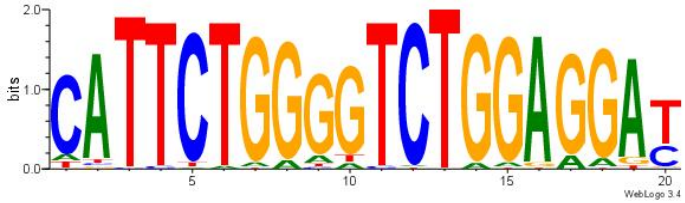

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

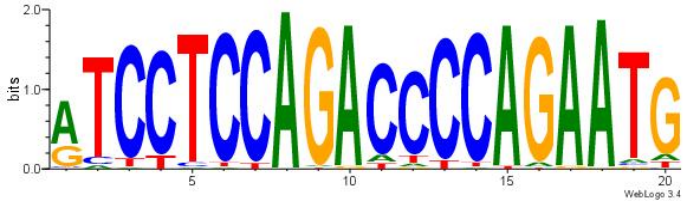

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138479

Alignment:

```
AAATTACCCAGTCTCAGGTA
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

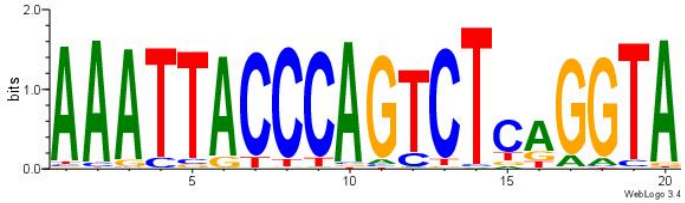

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

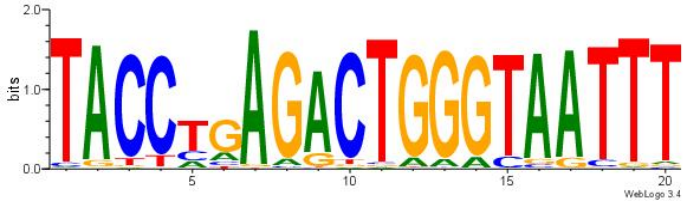

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.1408

Alignment:
VMATTTAKTGAGCACCTACT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

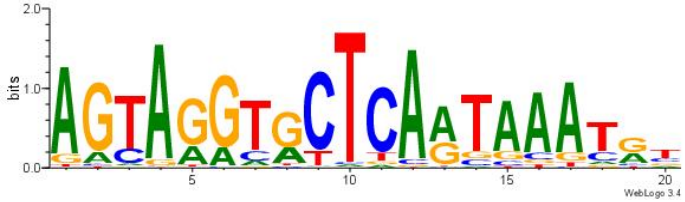

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

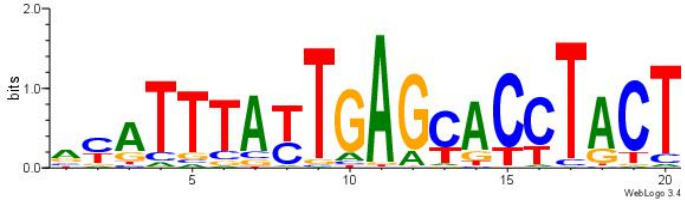

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142266

Alignment:
TYTGTCMTTTTGTGACTGGC
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

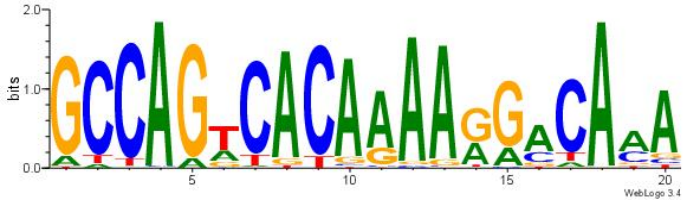

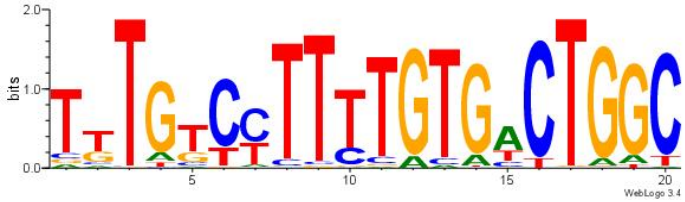

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14485

Alignment:
MGGGATATAATCTCCTGGTG
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

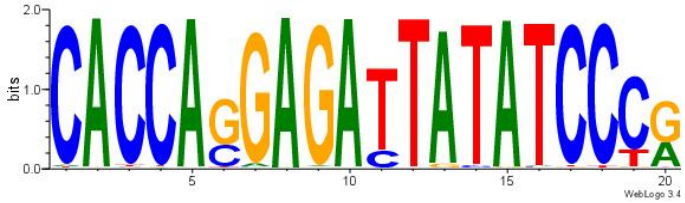

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

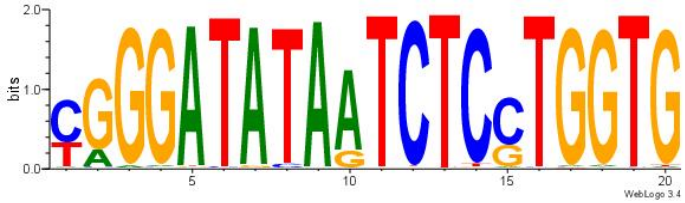

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146417

Alignment:

```
GCTGTGTGACCTTGGGCAAG
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

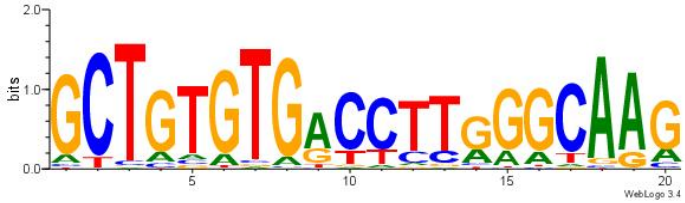

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

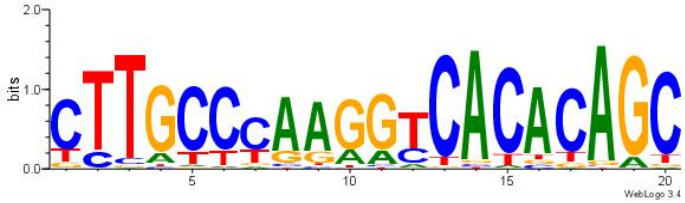

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147282

Alignment:
TTCAMTCATGATTTGGCTCT
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

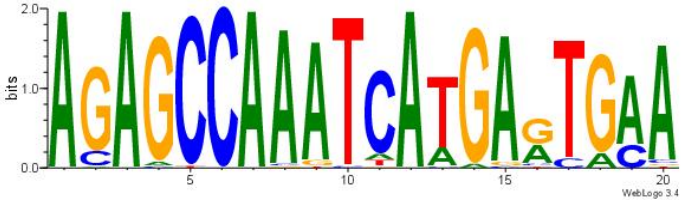

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

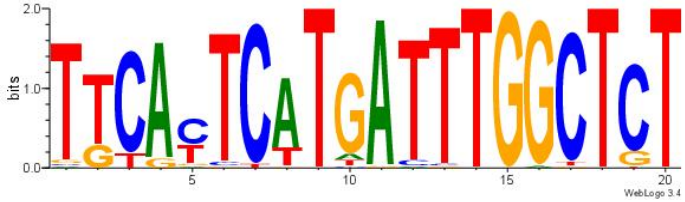

Dataset #: 1
Motif ID: 61
Motif name: Motif 61
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.147303

Alignment:
TGGCTTCACCCAGTGGATCC
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

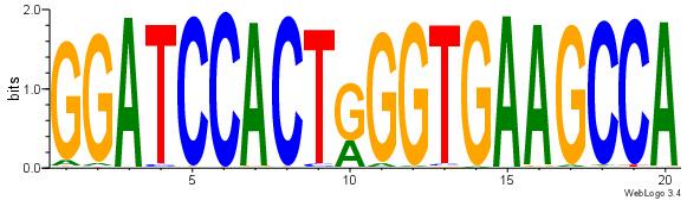

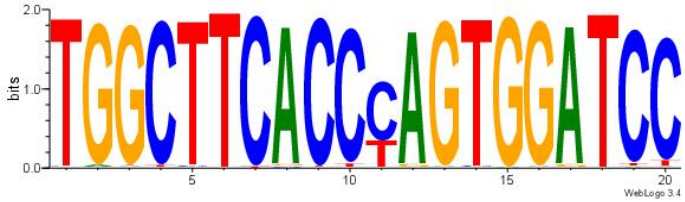

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147614

Alignment:

```
CMTAGYACAGTGCCTGGCAC
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

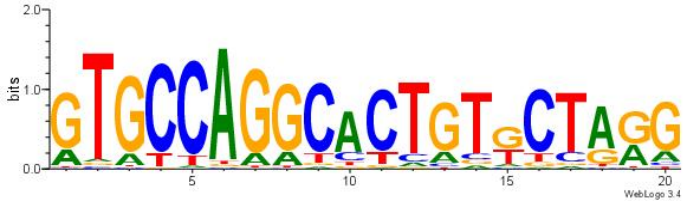

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

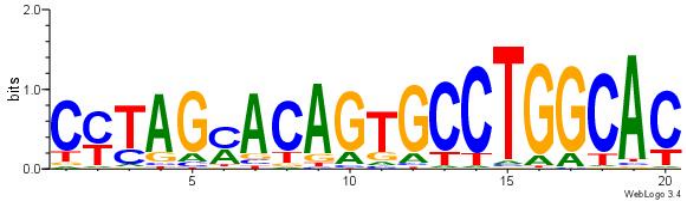

Dataset #:	1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148289

Alignment:

```
GCACATGTAYCCYAGAACTT
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

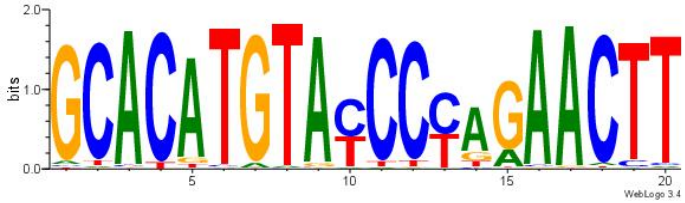

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

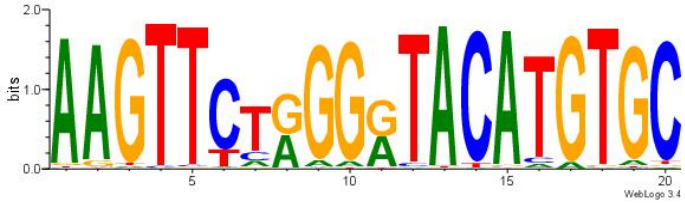

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149538

Alignment:
GACAGGAGATTAACACTGAG
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

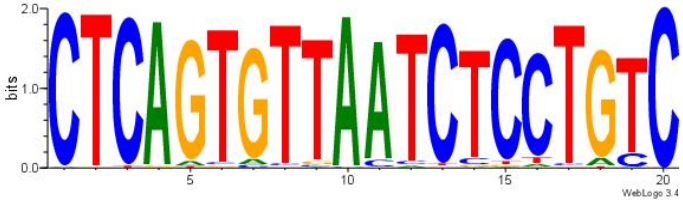

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

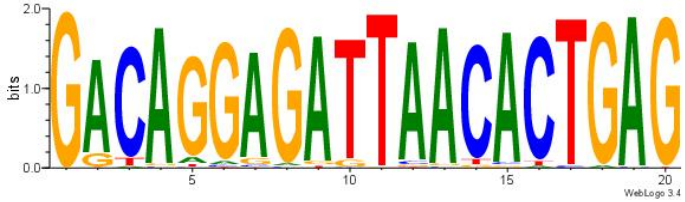

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.150775

Alignment:
GGTGGAGCTGCCTGCCAGTC
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

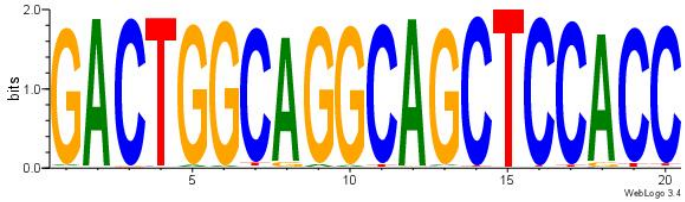

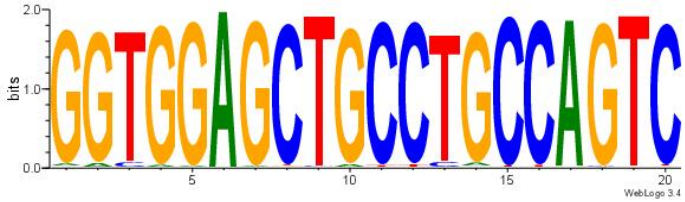

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151062

Alignment:

```
GCCAATTTCTCCCATTTGGA
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

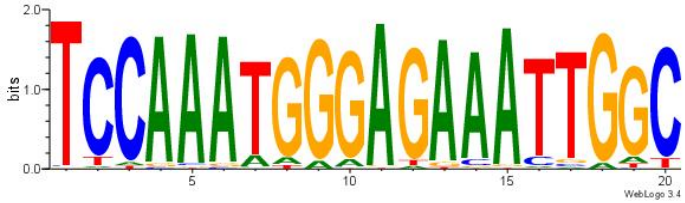

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

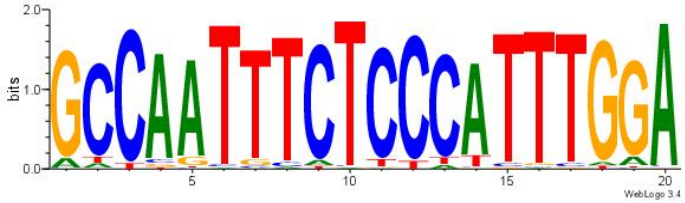

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15108

Alignment:
GTKTMTATMTACCACATTTT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

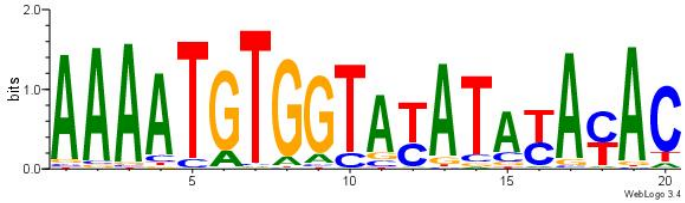

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

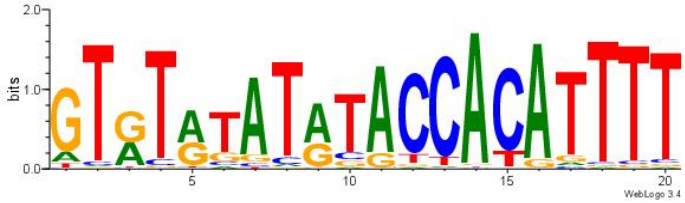

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151202

Alignment:
AGGCCCCAGTGTSTGTTGTT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

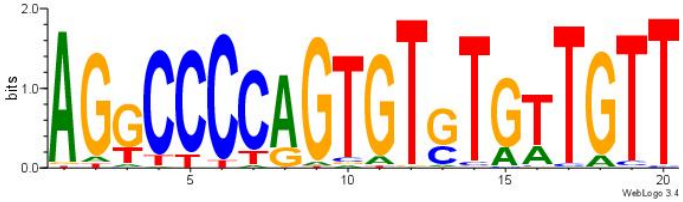

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

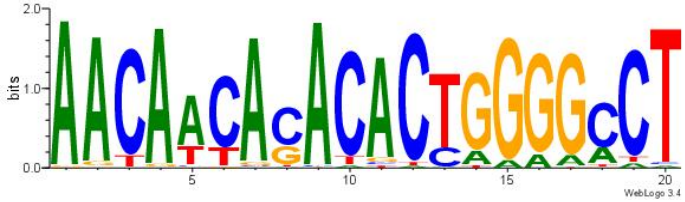

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.153441

Alignment:
KCCGGGCCTTAGCTGCCTTC
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

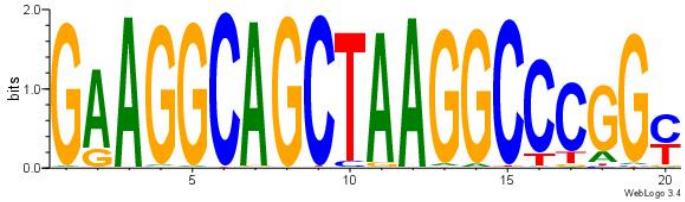

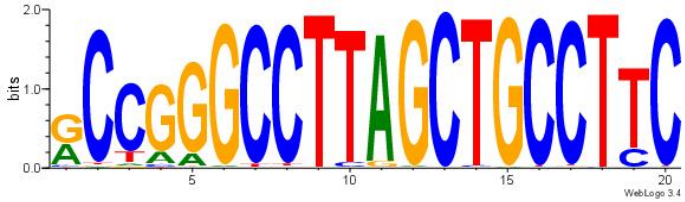

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153748

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

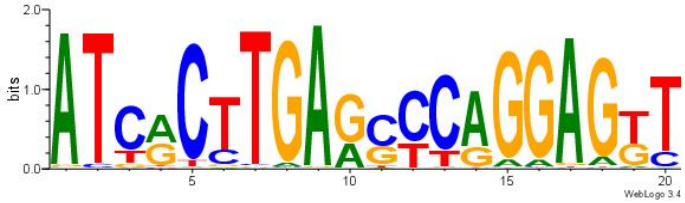

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

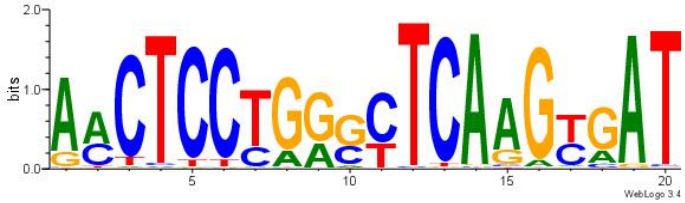

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154362

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

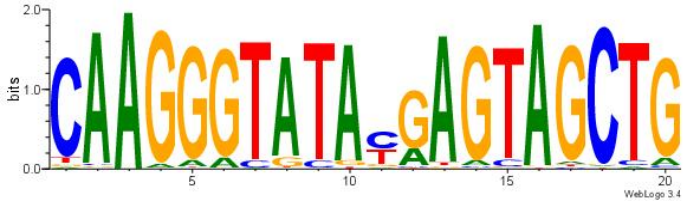

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

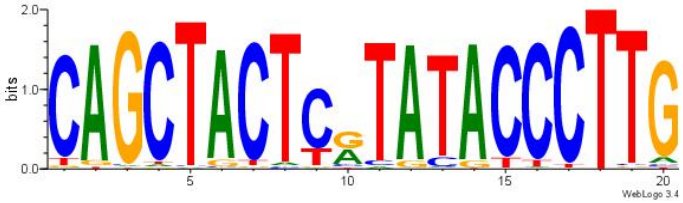

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154404

Alignment:
AGCTGTGAGAAGAGGGCCAC
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

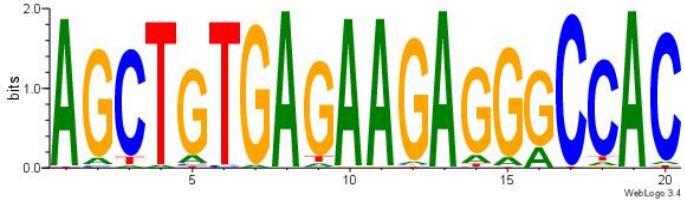

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

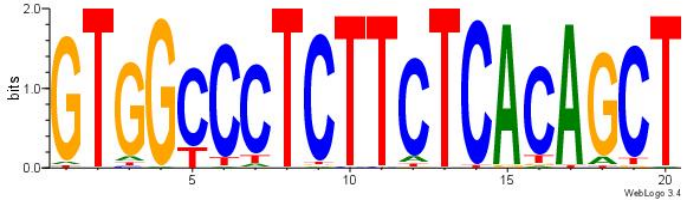

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154792

Alignment:
AAATTAGGCCAATTAATAAC
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

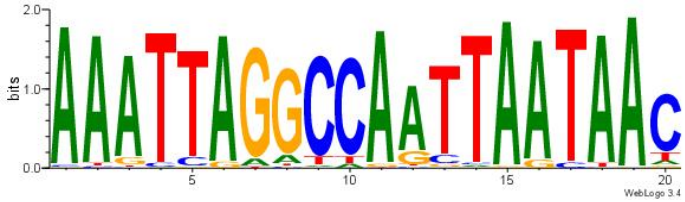

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15489

Alignment:

```
AGTGAGAACATRYRRTRTTT
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

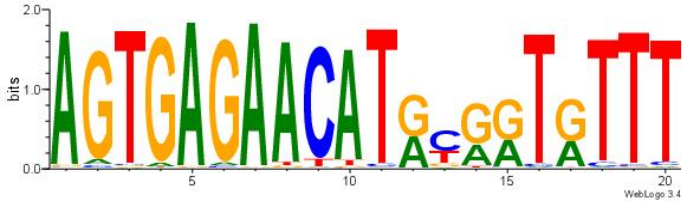

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

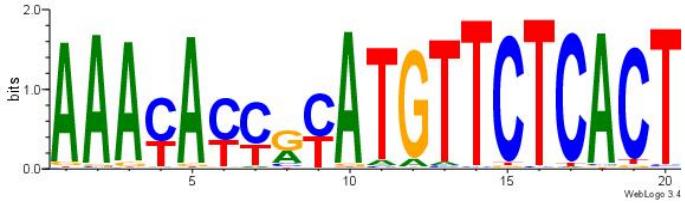

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154893

Alignment:

ACCGAGMKMGCAGCTTCGGG
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

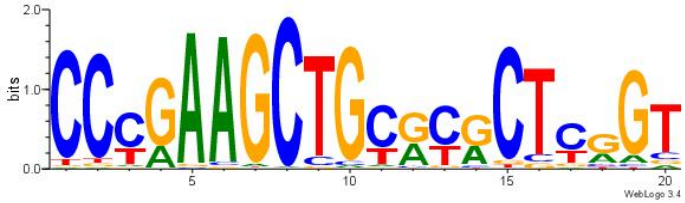

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

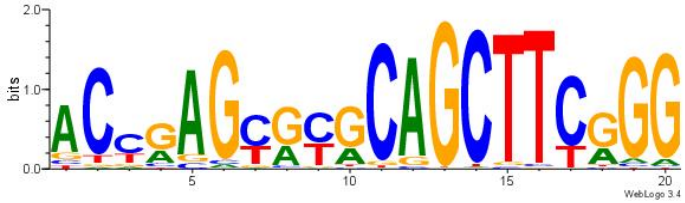

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154952

Alignment:
ATCTGACAGGAGGYRGAGCT
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

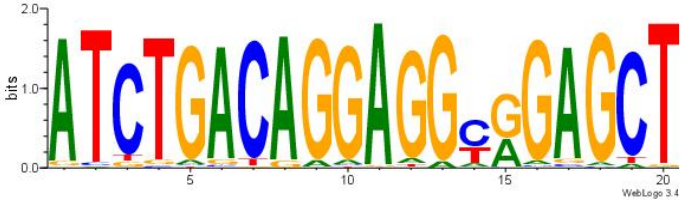

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

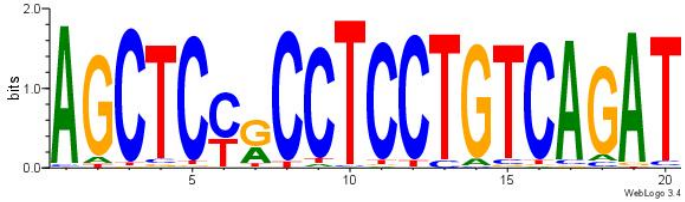

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155209

Alignment:
AAAAGTCCACAGTCCAAAGT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

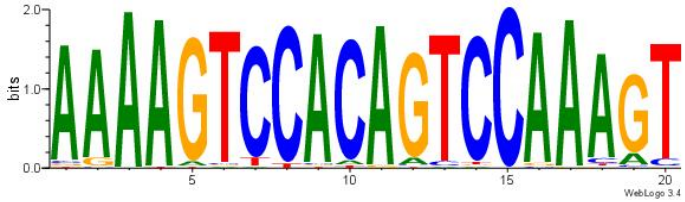

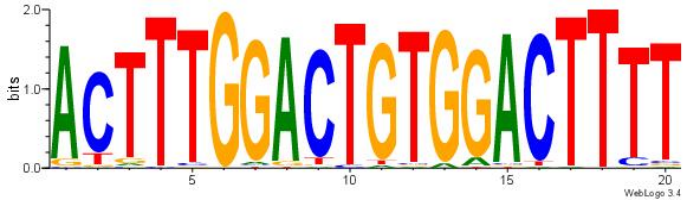

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.155313

Alignment:

```
AGAAATCGAGCRCAGCGCCG
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

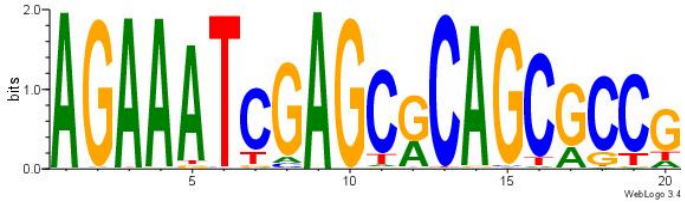

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

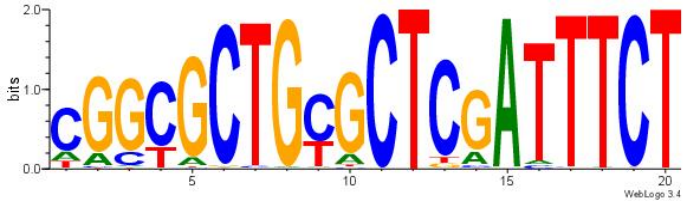

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156142

Alignment:

```
TAGATAATAGCTCCAGCTTT
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

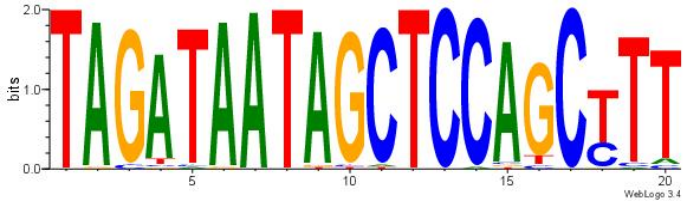

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

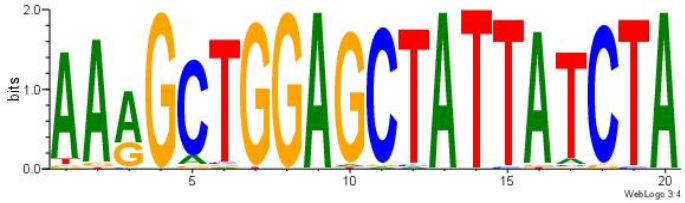

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156677

Alignment:
AGCTCCCAGCGTGAGCGACG
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

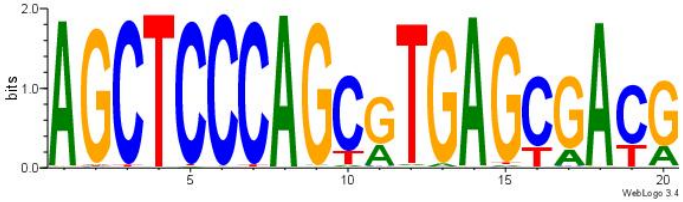

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

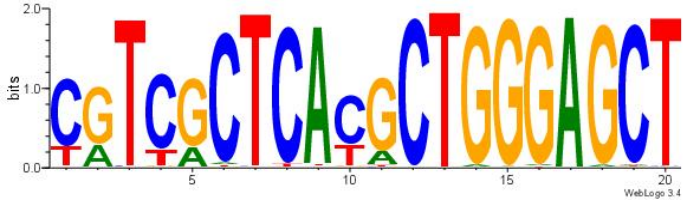

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157141

Alignment:
GAGAGAGAGAGAGAGAGAGA
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

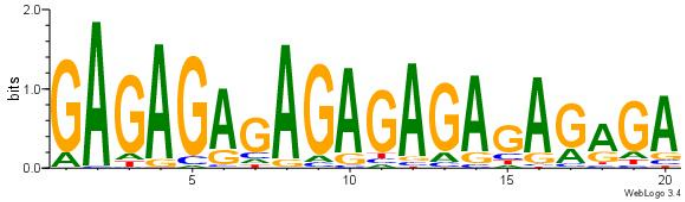

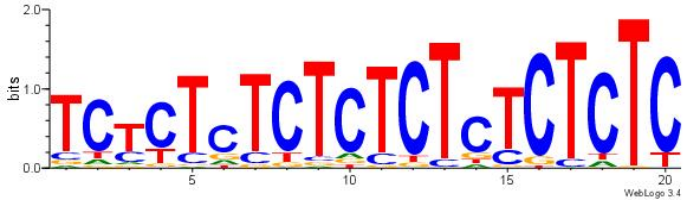

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158048

Alignment:
GAAACTGCTTTGTGATGTGT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

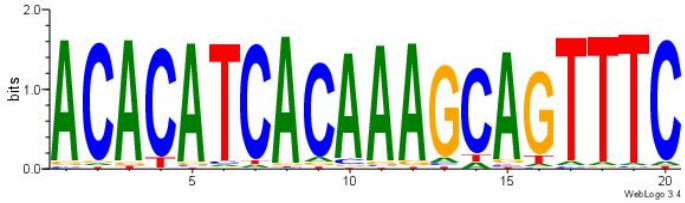

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

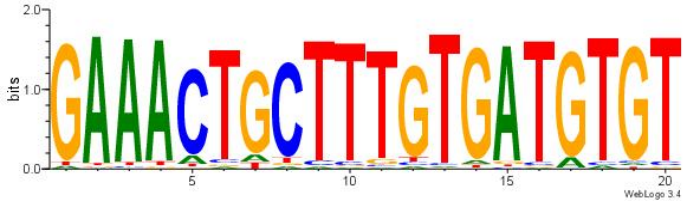

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158646

Alignment:

```
ATAGGAATGCTTGTGATTTT
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

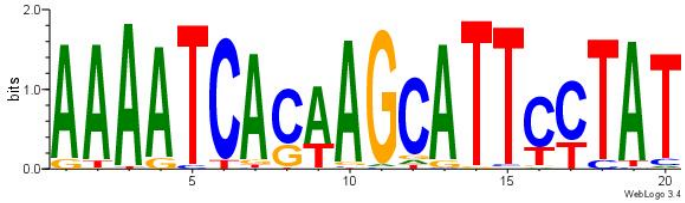

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

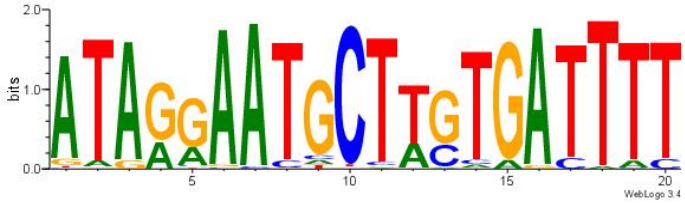

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.158951

Alignment:
ACCCAATWTGTAGTCTTTTA
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

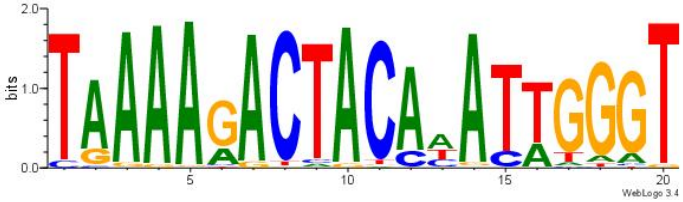

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

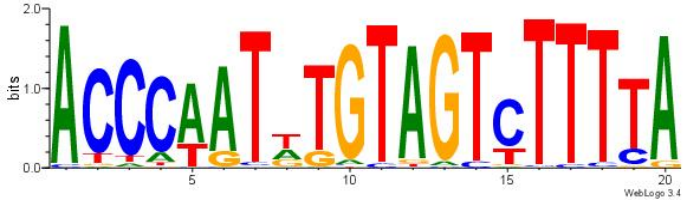

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.158969

Alignment:
AAGGAACAAACTCCRGACAC
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

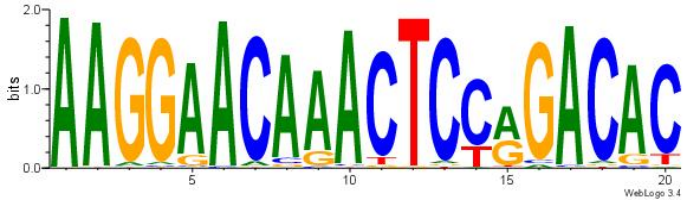

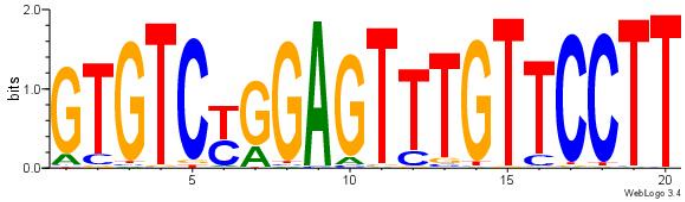

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158976

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

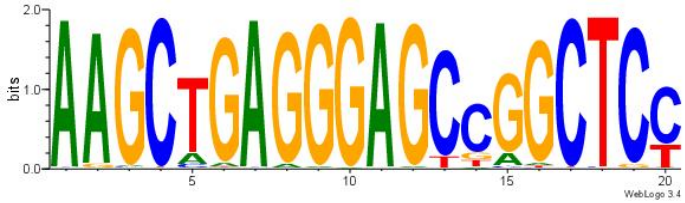

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

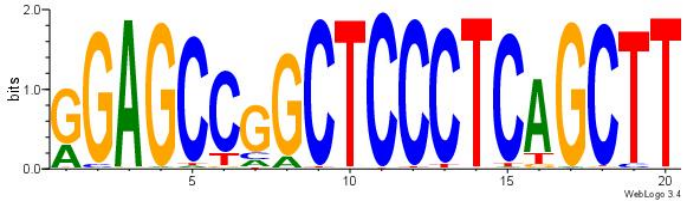

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159022

Alignment:

```
AATGAKATCATGTCYTTTGC
GGATTTMKGACTTGCATGGG
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

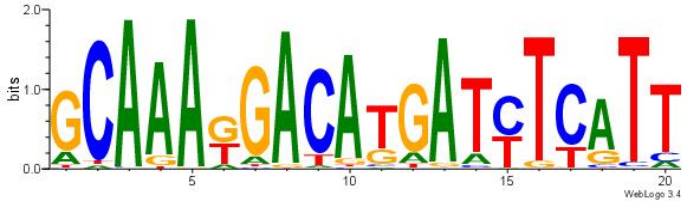

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

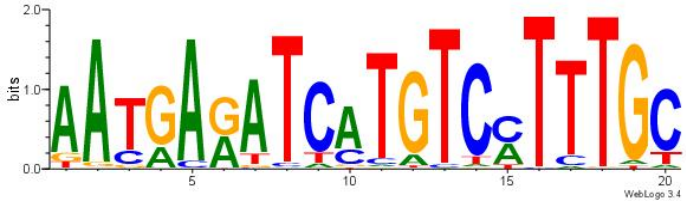

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159345

Alignment:
TGCTGGAGGTCCACTCCAGA
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

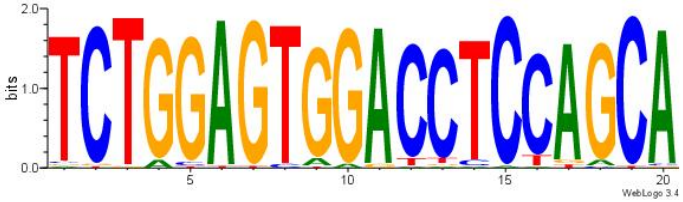

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

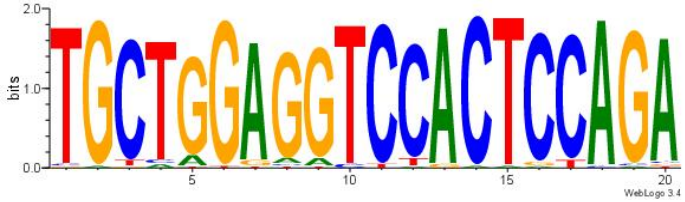

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159349

Alignment:
GGCATCACGGATCCTACCAA
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

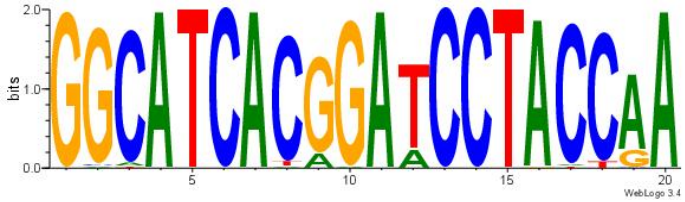

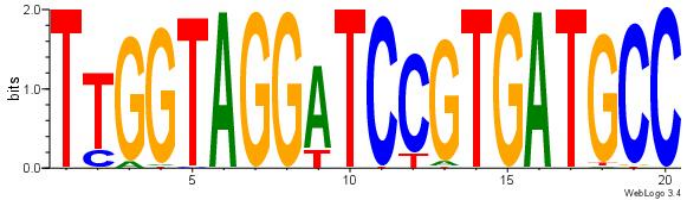

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.159606

Alignment:
GGGATTGTAAATACACCAAT
GGATTTMKGACTTGCATGGG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

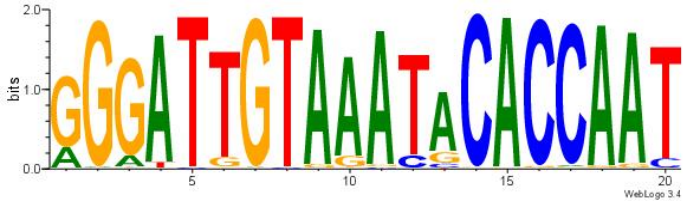

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15988

Alignment:

```
CTCCAGKTMCATCCATGTTG
CCCATGCAAGTCYRAAATCC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

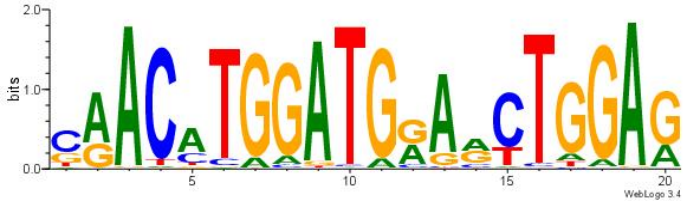

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

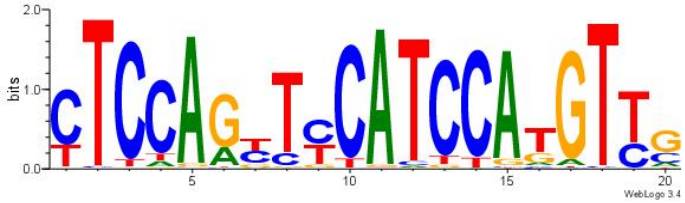

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161791

Alignment:
ATGATCCAGCAATYCCACTH
CCCATGCAAGTCYRAAATCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

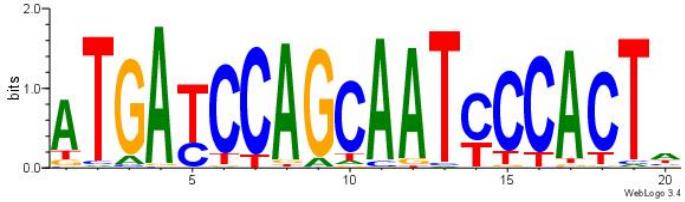

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

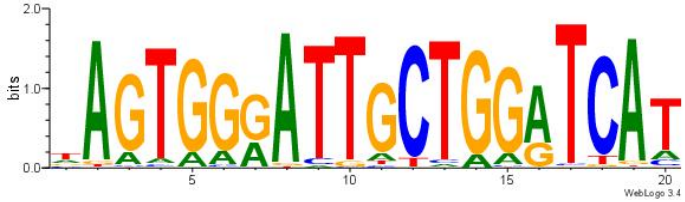

Dataset #: 1 Motif ID: 311 Motif name: Motif 311

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

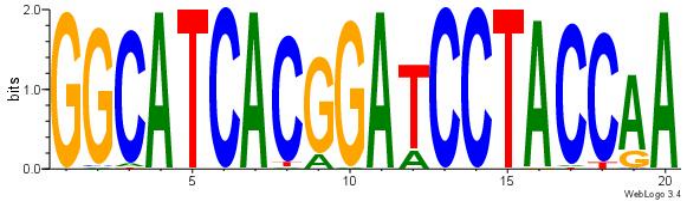

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

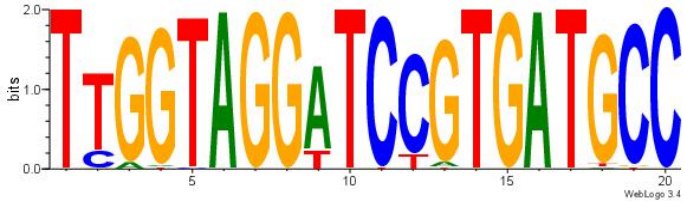

Best Matches for Motif ID 311 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129928

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
GGCATCACGGATCCTACCAA
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

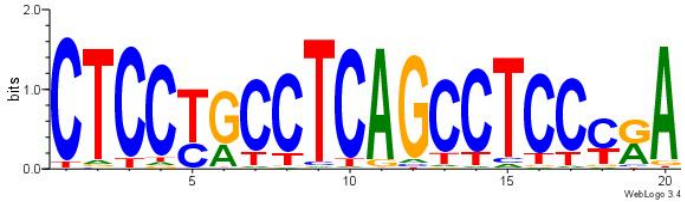

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

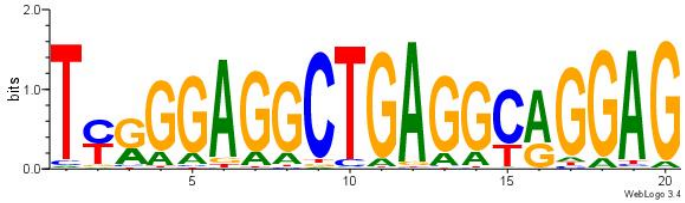

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.134094

Alignment:

TGGCTTCACCCAGTGGATCC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

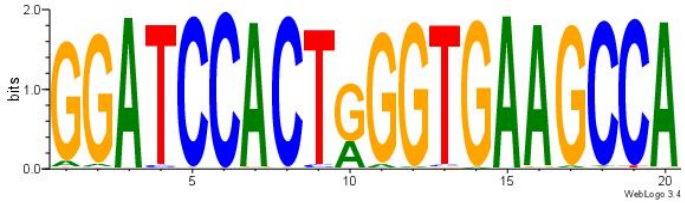

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

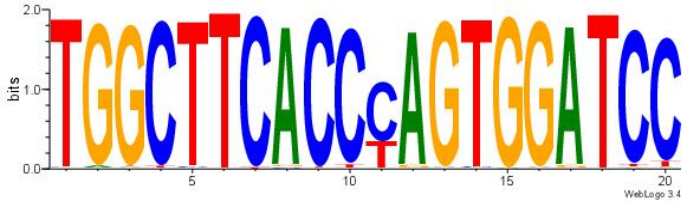

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.134531

Alignment:
GTGCCAGGCACTGTKCTARG
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

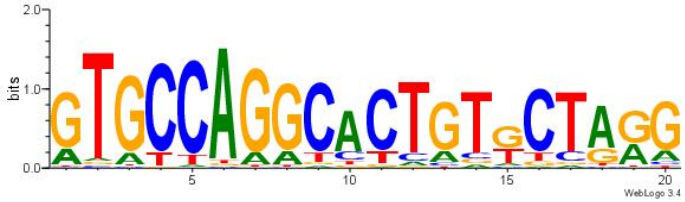

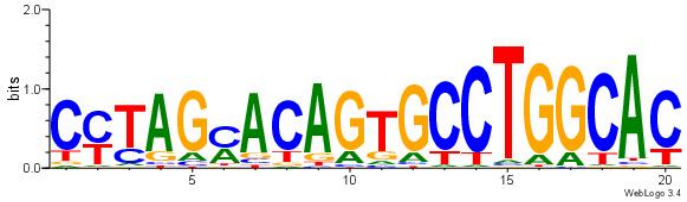

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136164

Alignment:

```
ATTGGTGTATTTACAATCCC
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

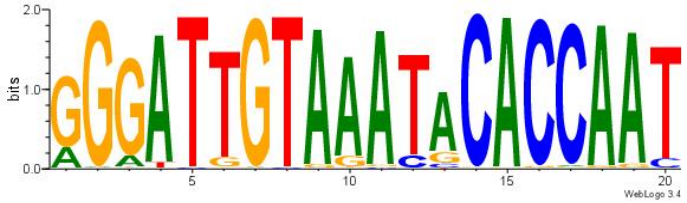

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137635

Alignment:
GGCACTGCTGGGGGACCCAG
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

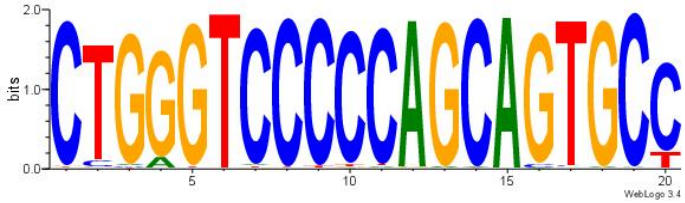

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

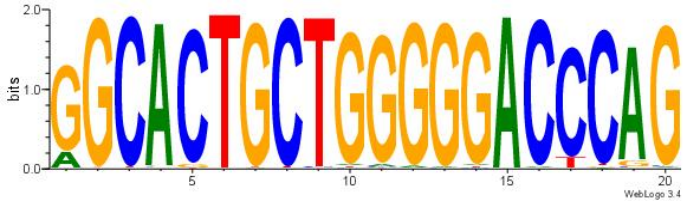

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140354

Alignment:
AWTKKTGGTTKCCAGKGGCT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

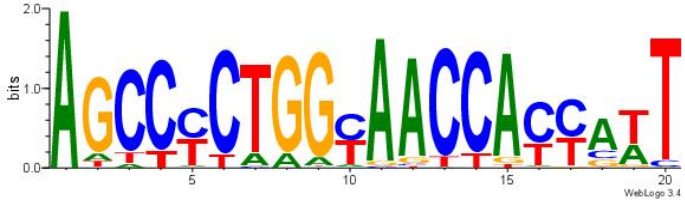

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

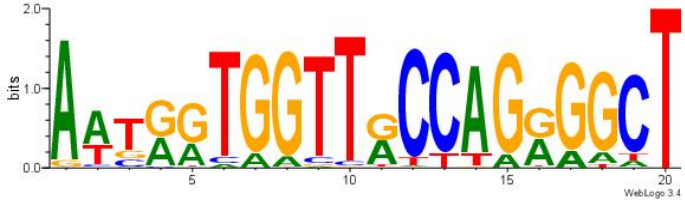

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.14116

Alignment:
TAGATAATAGCTCCAGCTTT
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

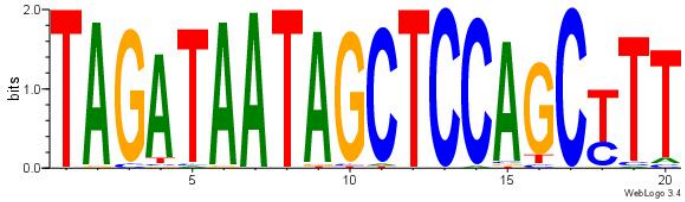

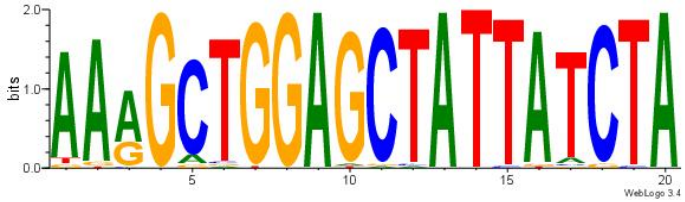

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142777

Alignment:

```
CCGCTGCACTGTGGGAGCCC
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

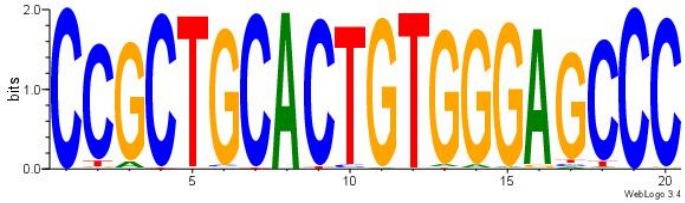

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

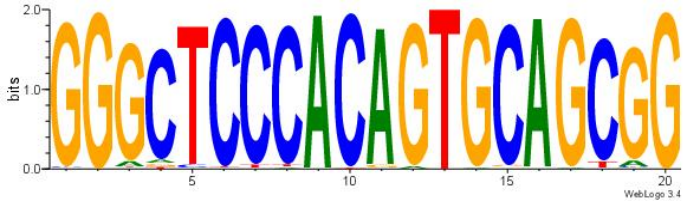

Dataset #:	1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142862

Alignment:

```
TGCTGGAGGTCCACTCCAGA
GGCATCACGGATCCTACCAA
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

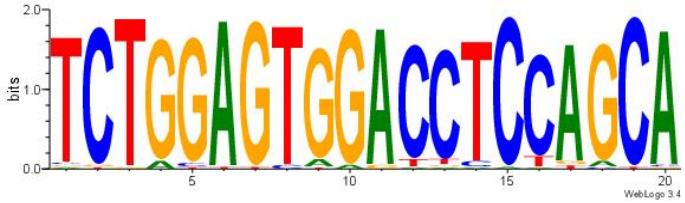

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

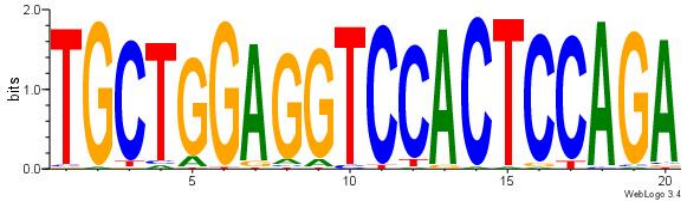

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.145168

Alignment:
GGAGCCGGCTCCCTCAGCTT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

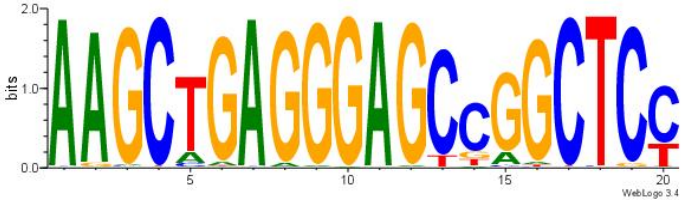

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

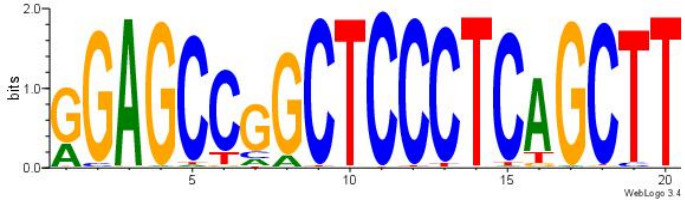

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146098

Alignment:
AAATTAGGCCAATTAATAAC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

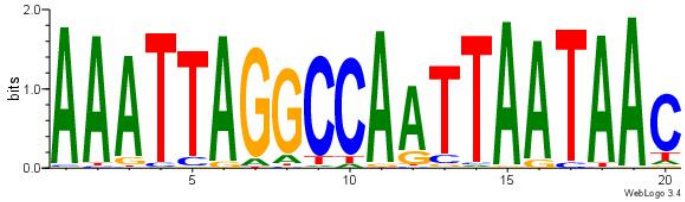

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.146729

Alignment:

```
AAGCAGGGCGAGGCATTGCC
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

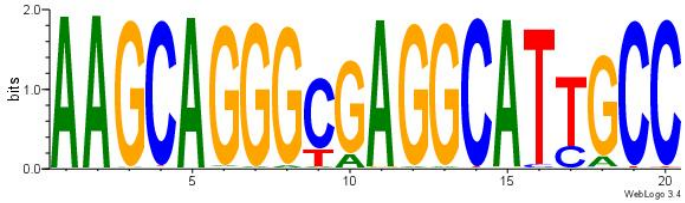

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

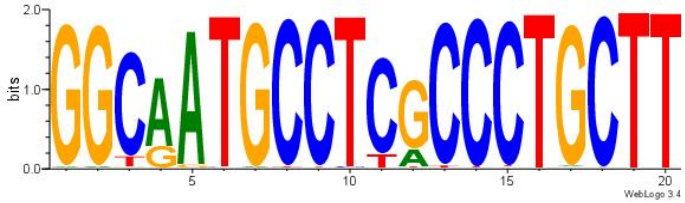

Dataset #: 1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147169

Alignment:
GTCTCWAMAAAAAAWAMAAA
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

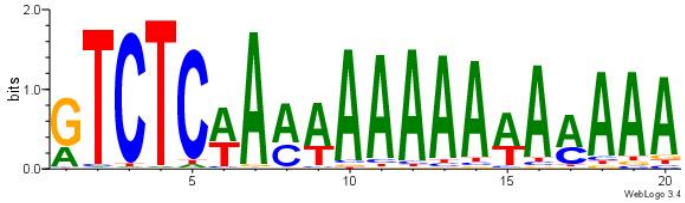

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

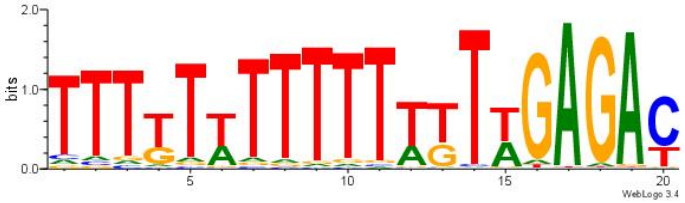

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148094

Alignment:
TCCCTCCCGGACGGGGYGGC
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

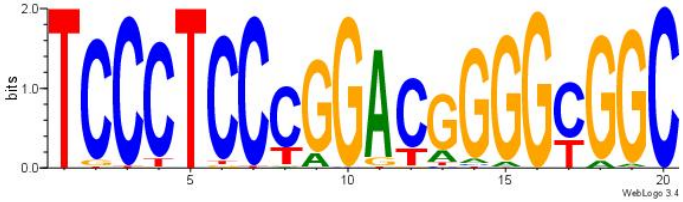

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

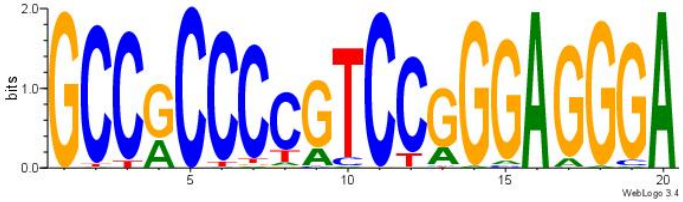

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148357

Alignment:
MGTCTMKCTCTGTKGCCCAG
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

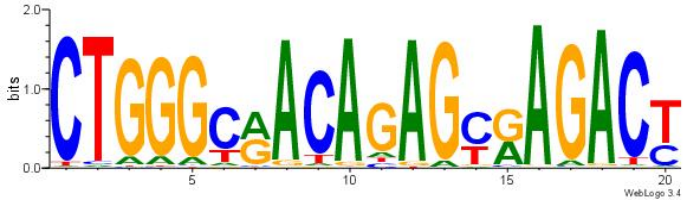

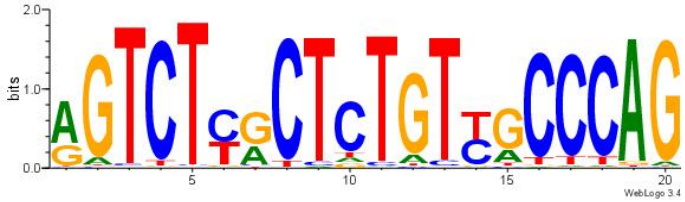

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149264

Alignment:
ATGGACAYTTRGGTTGHTTC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

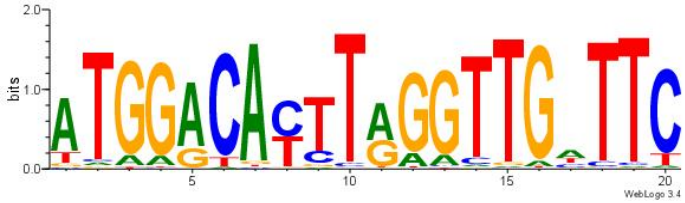

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

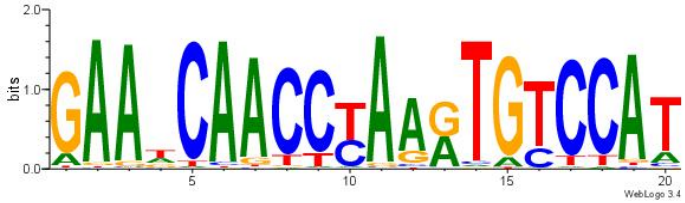

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150648

Alignment:

```
ATAGGAATGCTTGTGATTTT
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

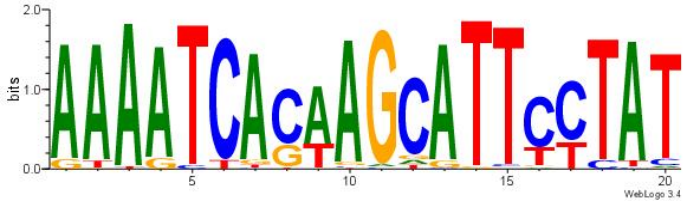

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

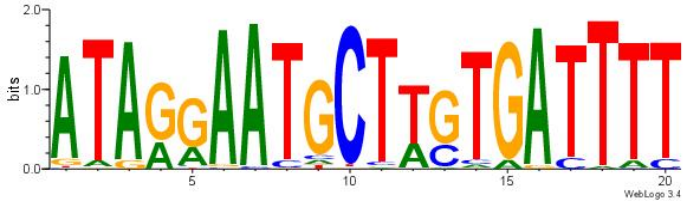

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.151591

Alignment:
TYTGTCMTTTTGTGACTGGC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

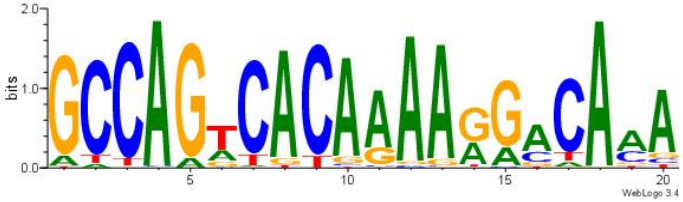

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

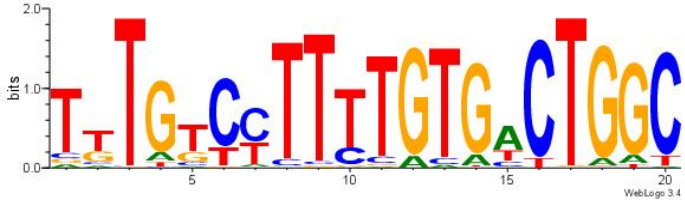

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.151798

Alignment:
GGTGGAGCTGCCTGCCAGTC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

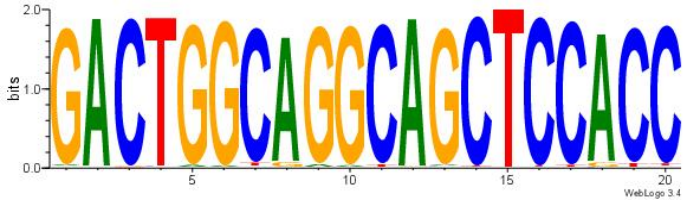

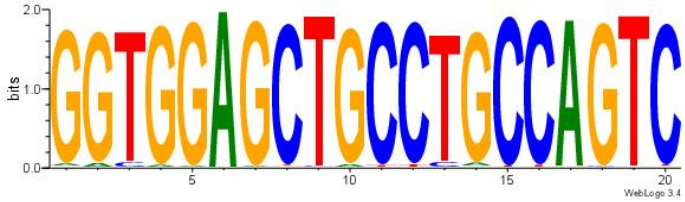

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154114

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

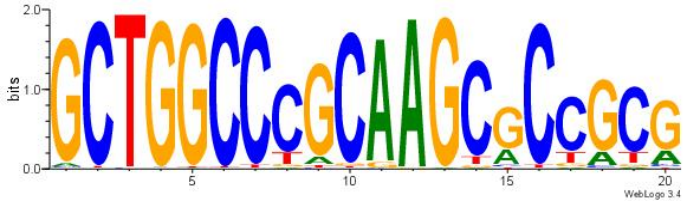

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

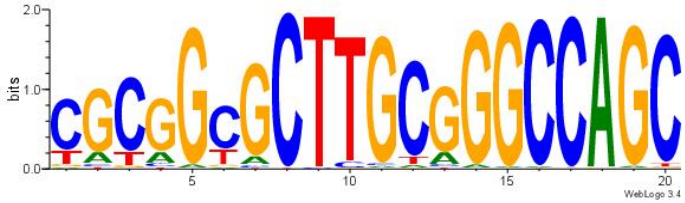

Dataset #:	1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154219

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
GGCATCACGGATCCTACCAA
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

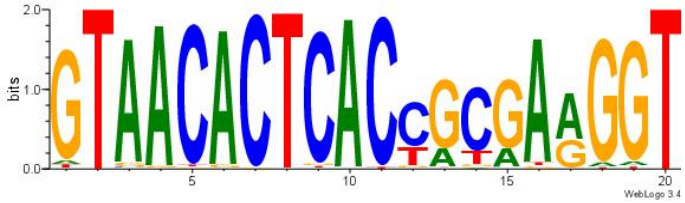

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

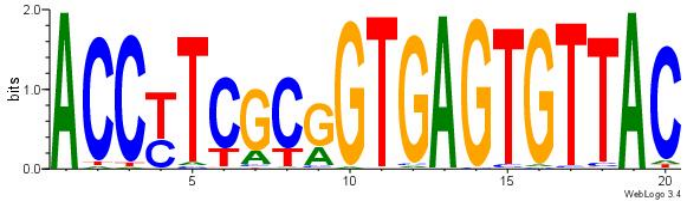

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155436

Alignment:
HAGTGGKATTGCTGGATCAT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

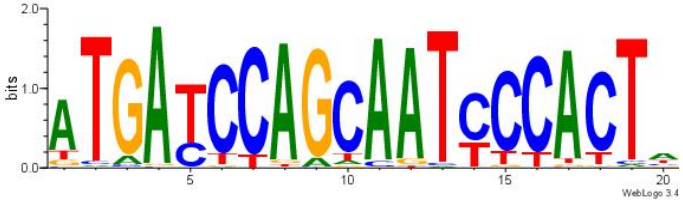

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

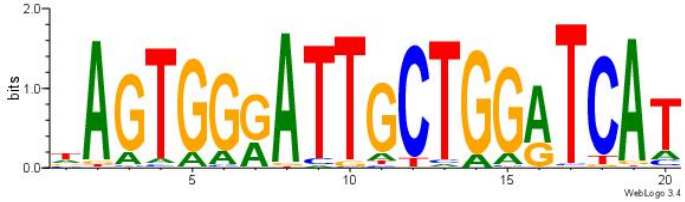

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158806

Alignment:
CACCAGACTCAGGAGCCCAG
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

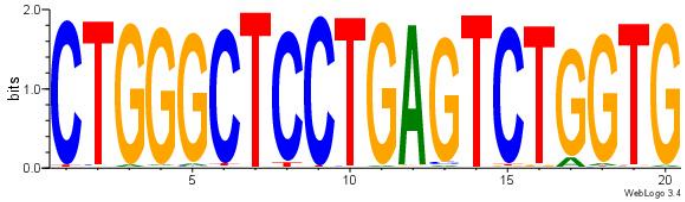

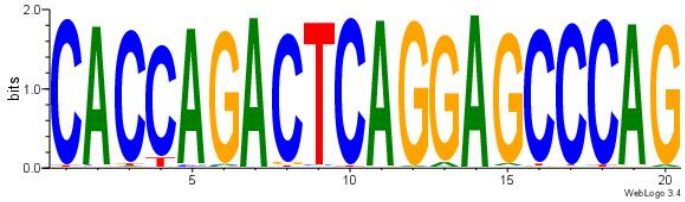

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158867

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
GGCATCACGGATCCTACCAA
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

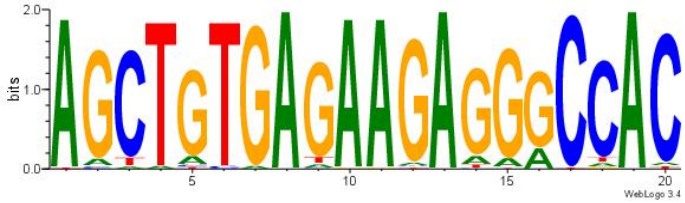

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

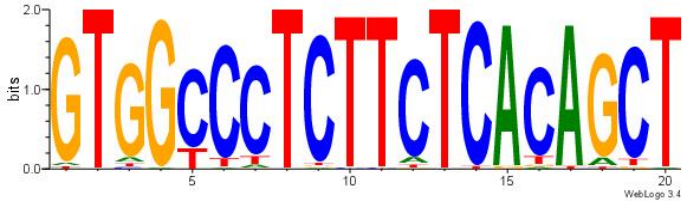

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159173

Alignment:

AACAACASACACTGGGGCCT

GGCATCACGGATCCTACCAA

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

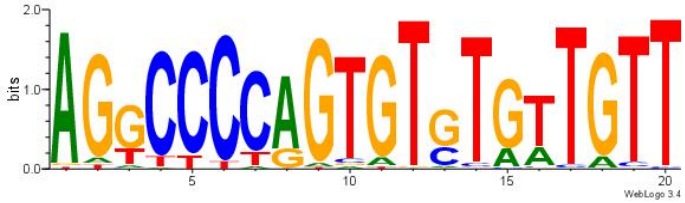

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

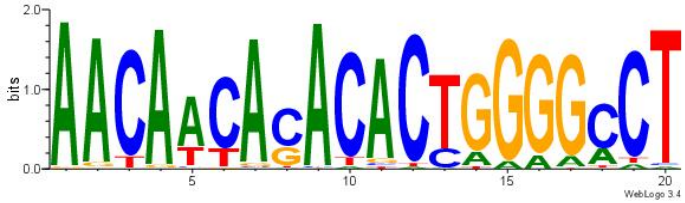

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16089

Alignment:
ATCRCTTGAGSYCAGGAGKT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

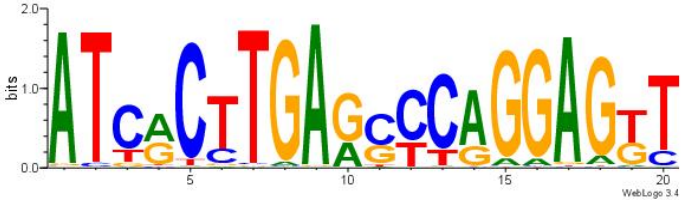

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

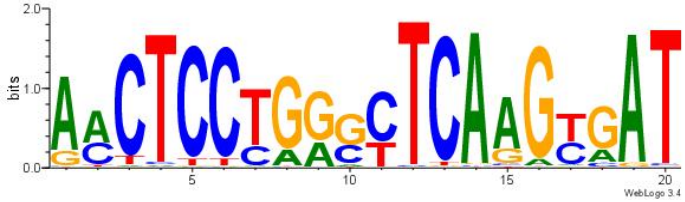

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.161487

Alignment:
CTGACTGGGAGACACCTCCC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

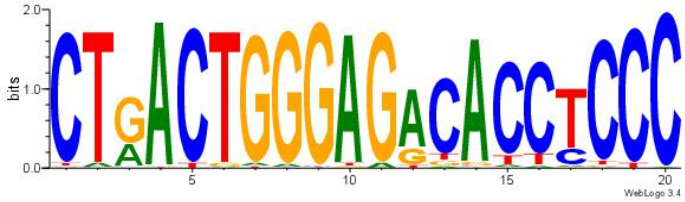

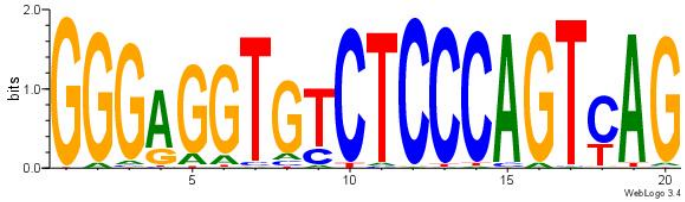

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161796

Alignment:

```
ATGTAACCAAAYACCACCTG
GGCATCACGGATCCTACCAA
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

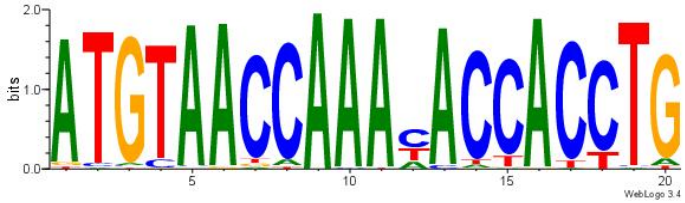

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

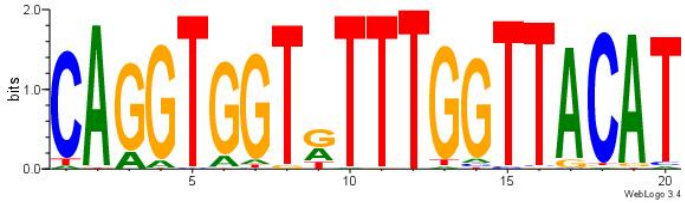

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162964

Alignment:
AGAGCCAAATCATGARTGAA
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

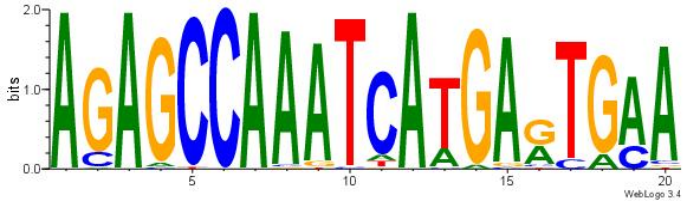

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

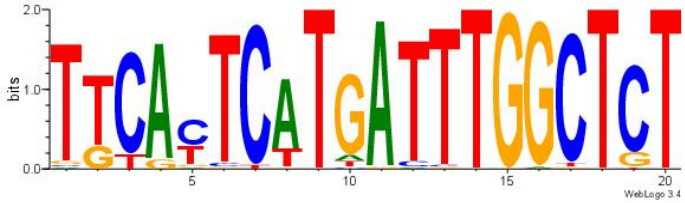

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.164522

Alignment:
MTCCTCCAGACCCCAGAATG
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

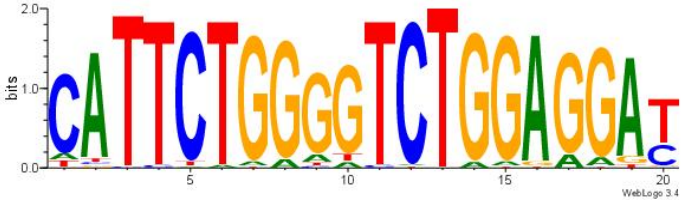

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

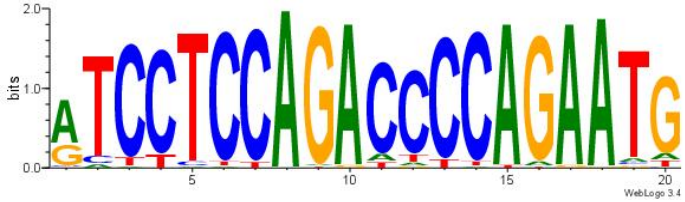

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.164796

Alignment:
CCCATGCAAGTCYRAAATCC
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

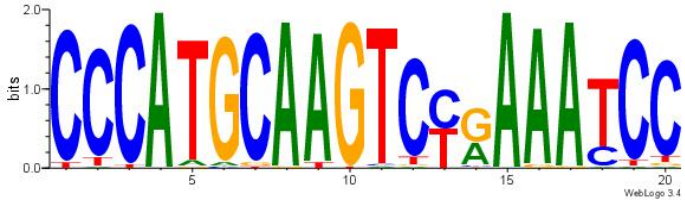

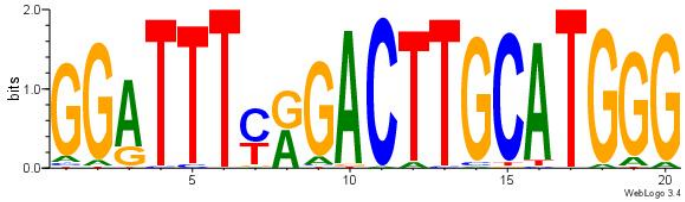

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165049

Alignment:
CTAGACATAAAGGTTCTCCA
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

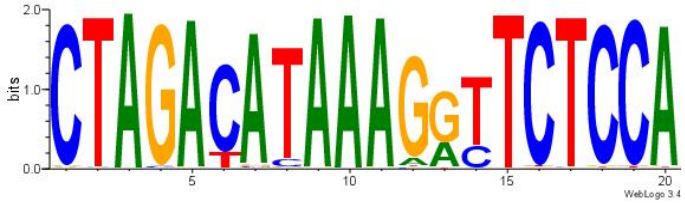

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

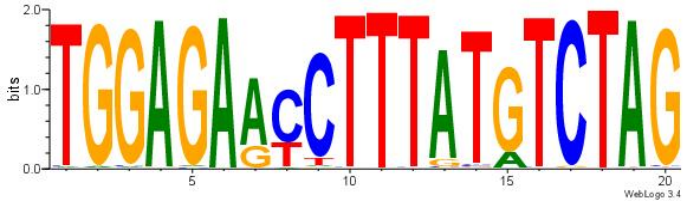

Dataset #: 1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165332

Alignment:
CGAGCCTCCCCGAYGAGCGC
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

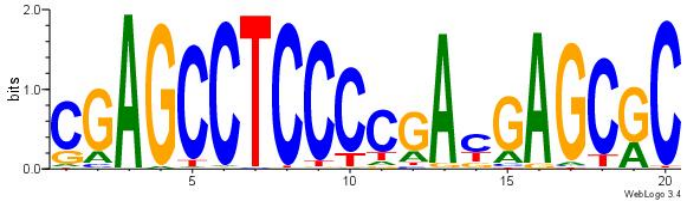

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

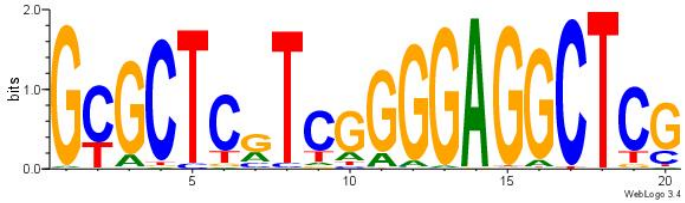

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.165557

Alignment:
GTGTCKGGAGTTTGTTCCTT
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

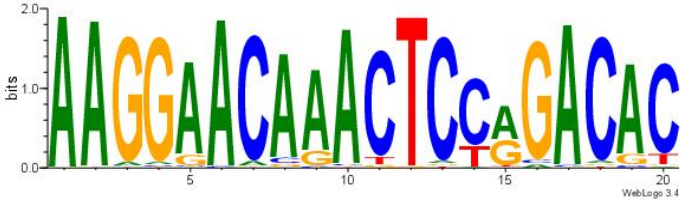

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

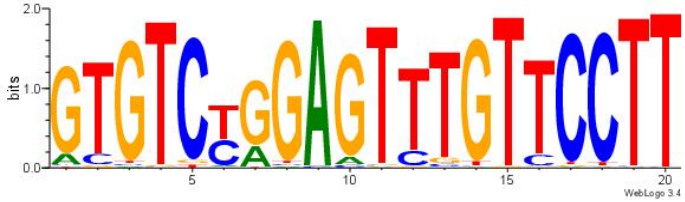

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.16649

Alignment:
GTKTMTATMTACCACATTTT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

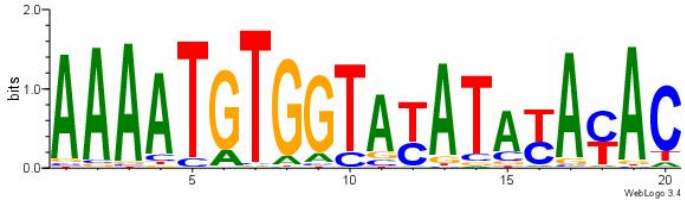

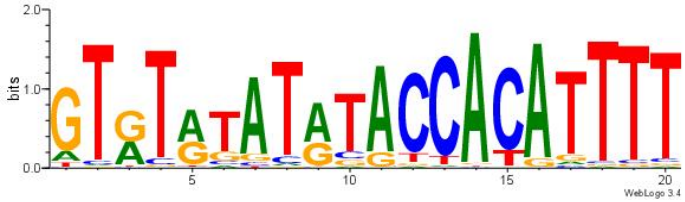

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.166892

Alignment:
TWTACCTATGTAACAAACCT
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

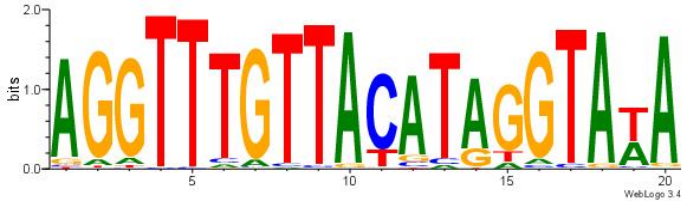

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

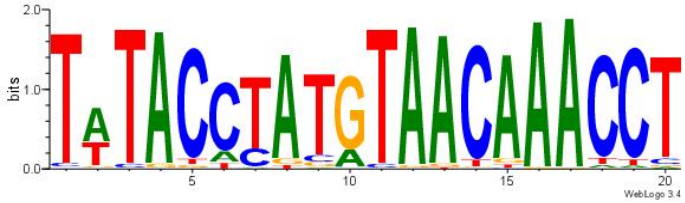

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167396

Alignment:

GGGTCAGGGAGTTCCCTTTC

TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

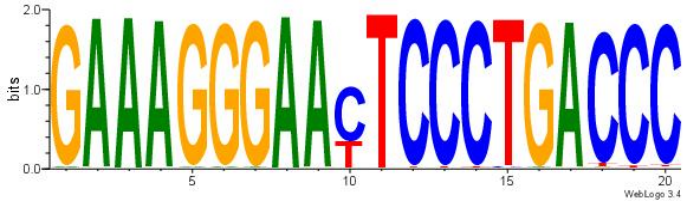

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

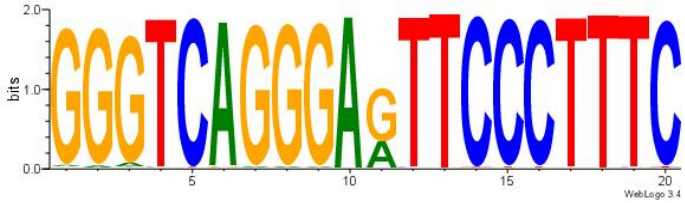

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.16754

Alignment:
AAGTTCTKGGKTACATGTGC
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

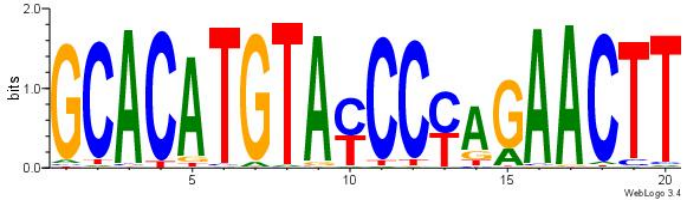

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

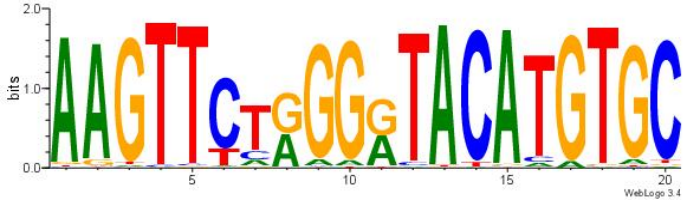

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.167754

Alignment:
GCTGTGTGACCTTGGGCAAG
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

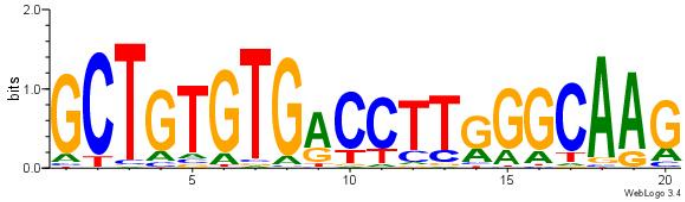

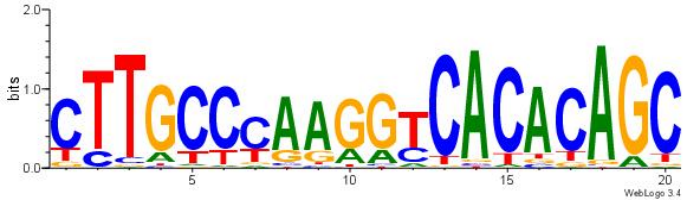

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167779

Alignment:

```
TCCAAATGGGAGAAATTGGC
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

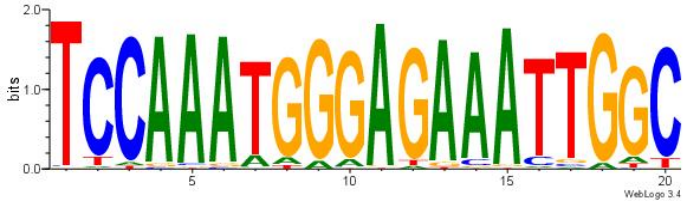

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

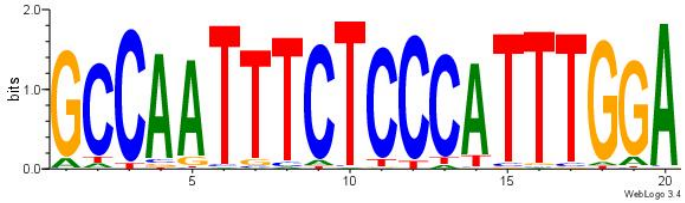

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168287

Alignment:
GACAGGAGATTAACACTGAG
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

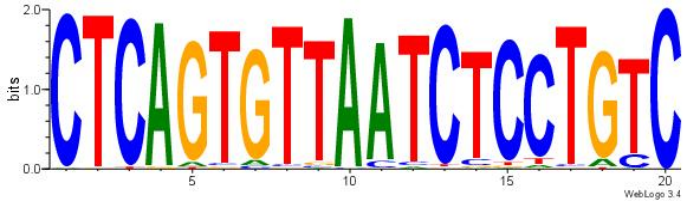

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

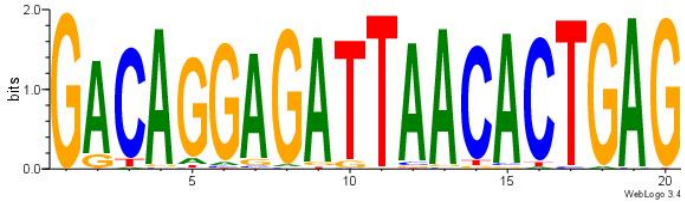

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.168353

Alignment:
CCCMKGGCACCCTCAGTCCT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

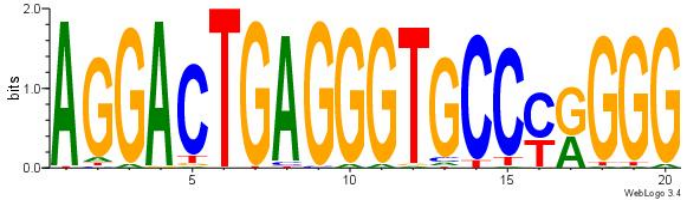

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

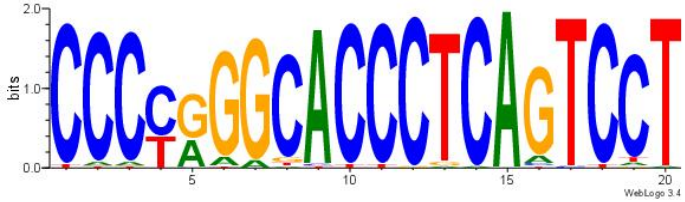

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.168403

Alignment:
CGGCGCTGMGCTCGATTTCT
TTGGTAGGATCCGTGATGCC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

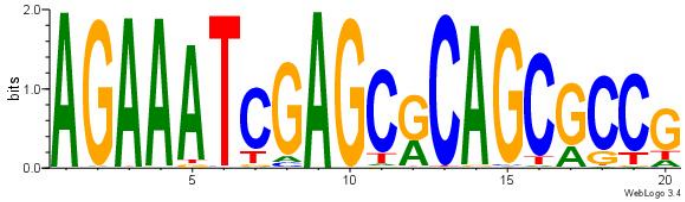

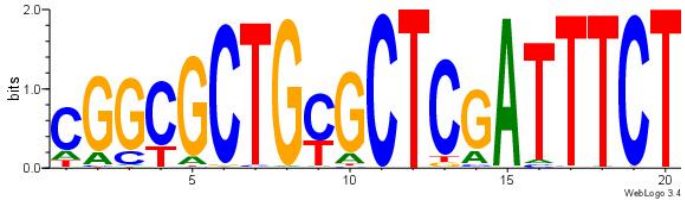

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.168537

Alignment:
ACTGTCTTCCACCTCCACAT
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

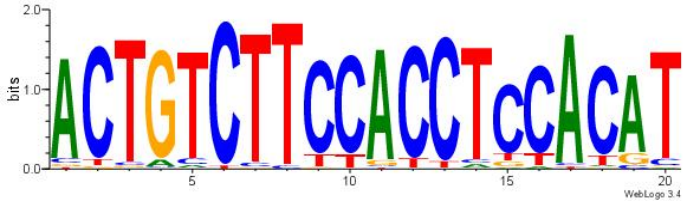

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

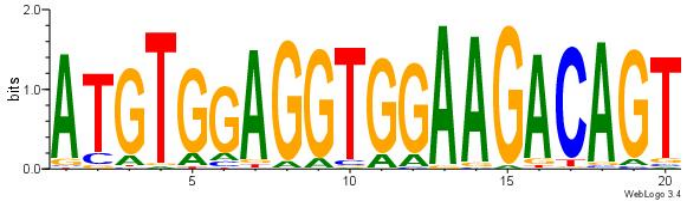

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168842

Alignment:

KKCACCTTGATCTTGGACTT

GGCATCACGGATCCTACCAA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

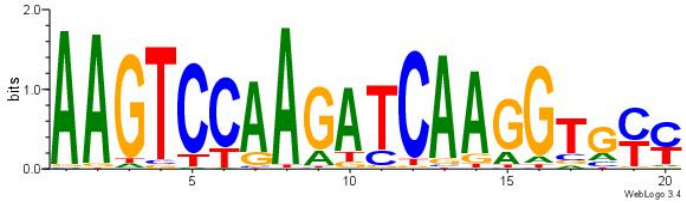

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

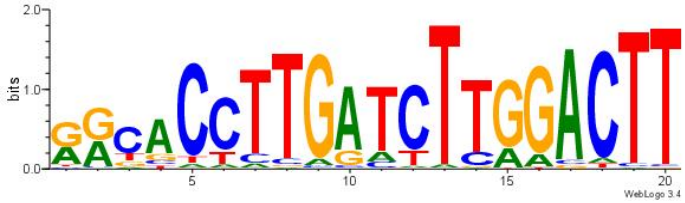

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.169629

Alignment:
VMATTTAKTGAGCACCTACT
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

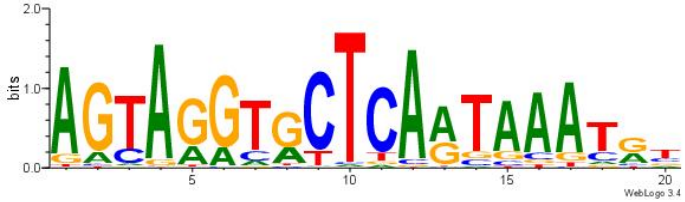

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

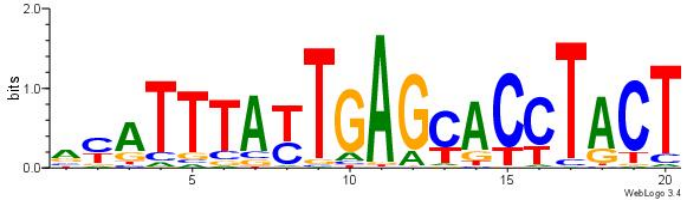

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.170803

Alignment:
AGCTCMKCCTCCTGTCAGAT
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

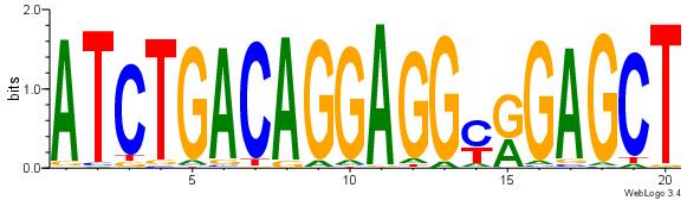

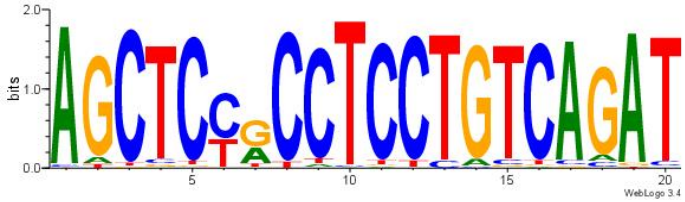

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.171007

Alignment:

```
AAGACCTTCCAGTGGGACAA
GGCATCACGGATCCTACCAA
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

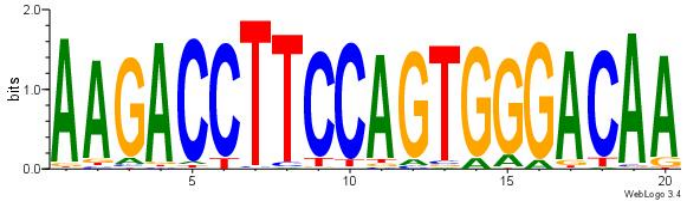

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

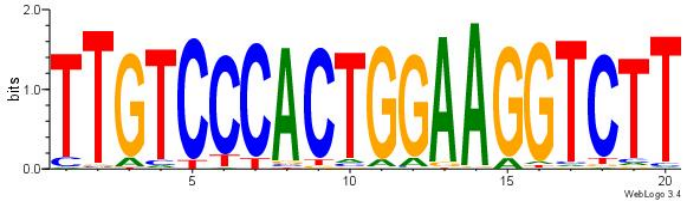

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.171696

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
TTGGTAGGATCCGTGATGCC
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

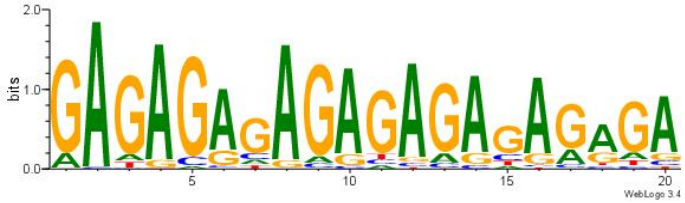

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

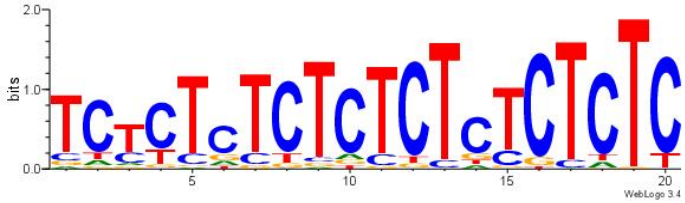

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.172239

Alignment:
KCCGGGCCTTAGCTGCCTTC
GGCATCACGGATCCTACCAA

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

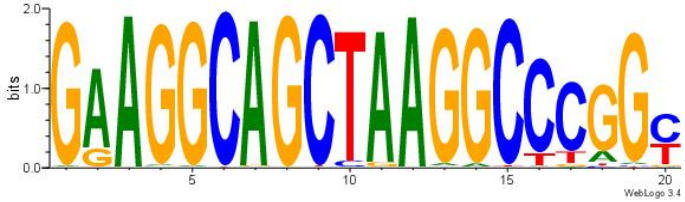

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

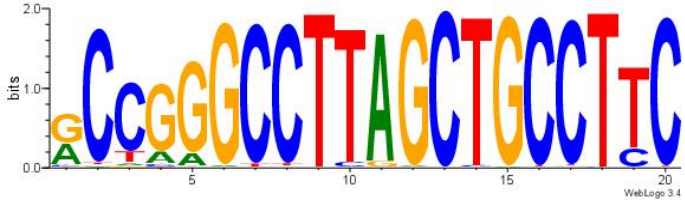

Dataset #: 1 Motif ID: 312 Motif name: Motif 312

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

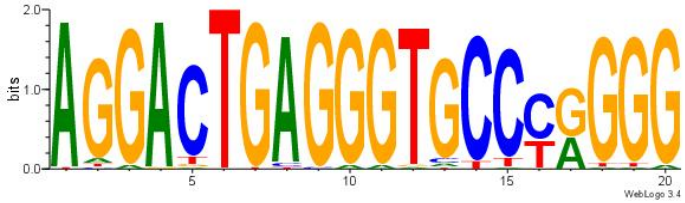

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

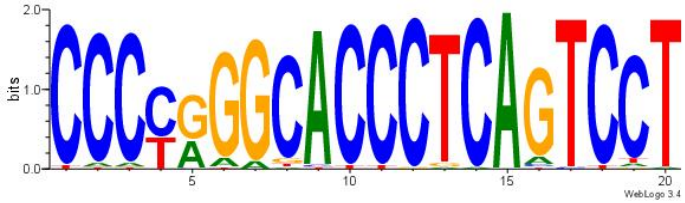

Best Matches for Motif ID 312 (Highest to Lowest)

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.104551

Alignment:

```
CGTCGCTCACGCTGGGAGCT
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

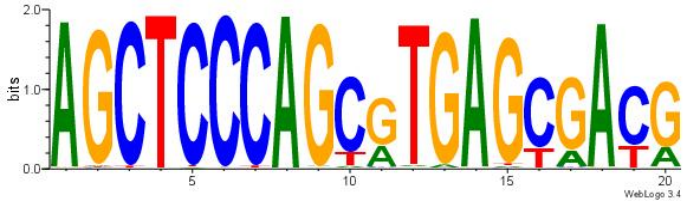

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

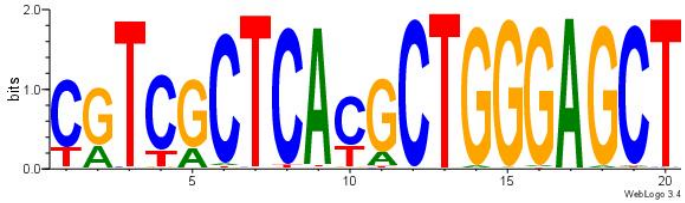

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.105418

Alignment:

AACAACASACACTGGGGCCT
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

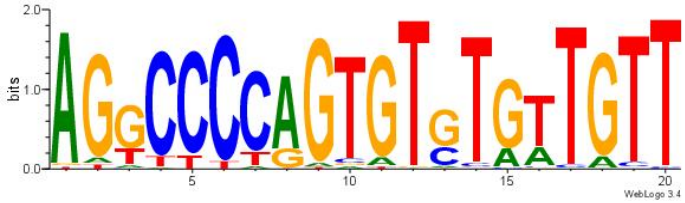

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

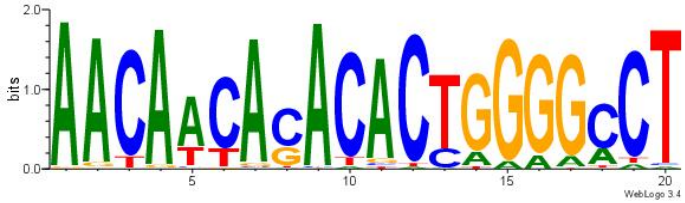

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.107814

Alignment:
GGCACTGCTGGGGGACCCAG
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

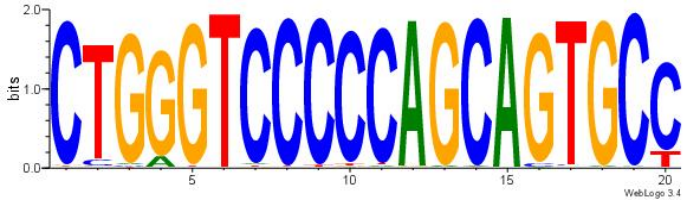

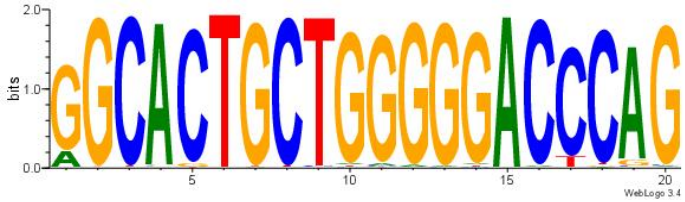

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11163

Alignment:
GGATTTMKGACTTGCATGGG
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

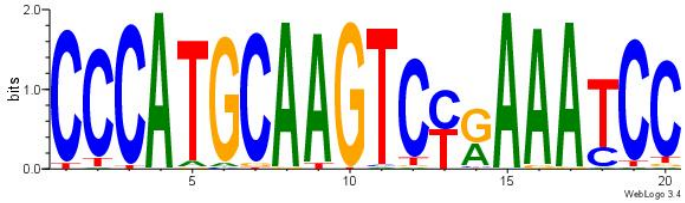

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

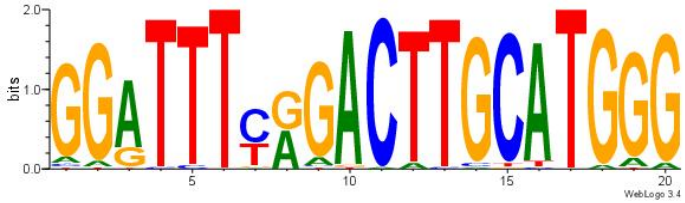

Dataset #:	1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112186

Alignment:
GGGTCAGGGAGTTCCCTTTC
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

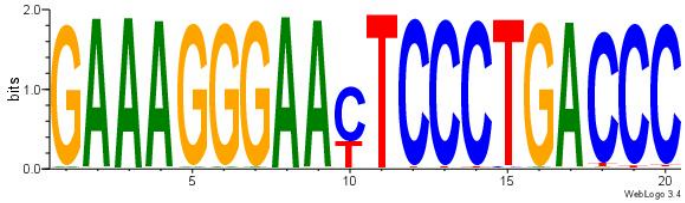

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

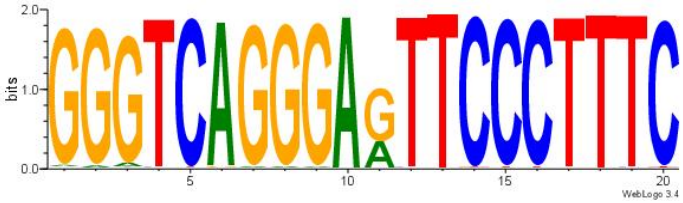

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.112931

Alignment:
GGGAGGTGTCTCCCAGTCAG
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

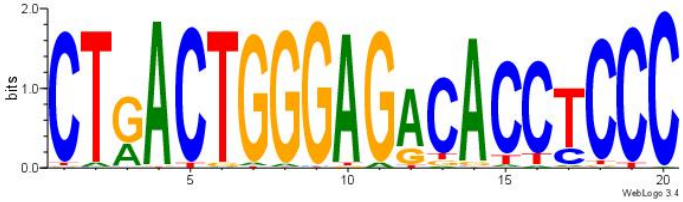

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

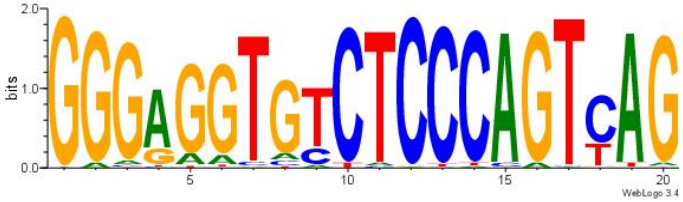

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.115187

Alignment:
TCTCTCTCTCTCTCTCTCTC
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence:
TCTCTCTCTCTCTCTCTCTC

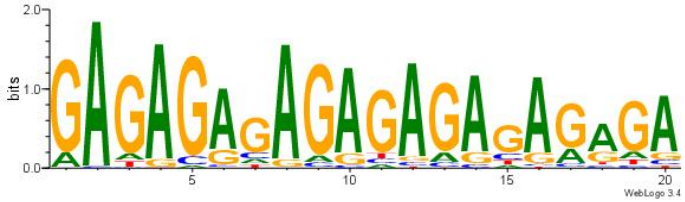

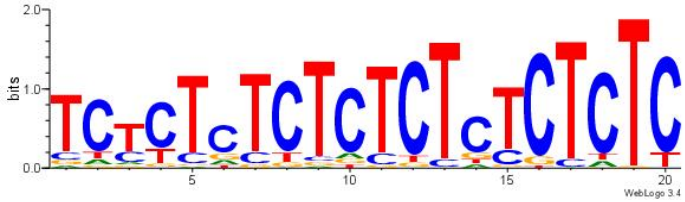

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.116553

Alignment:
AAGTTCTKGGKTACATGTGC
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

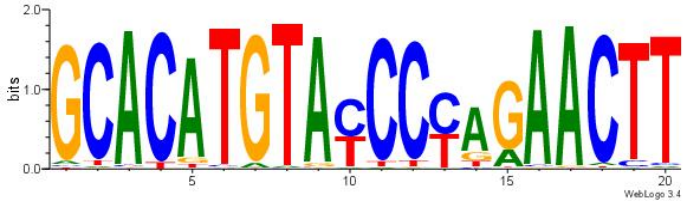

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

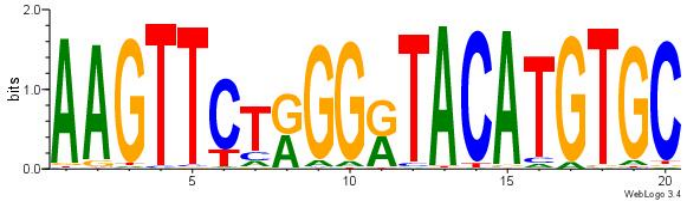

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124486

Alignment:

```
GCCTCTCCCTCCACACCTCC
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

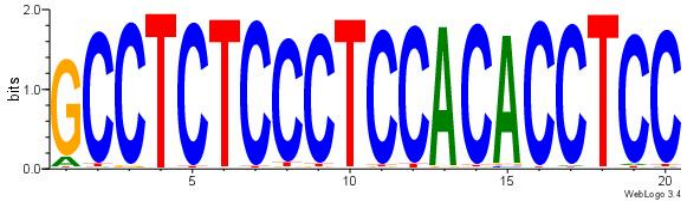

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

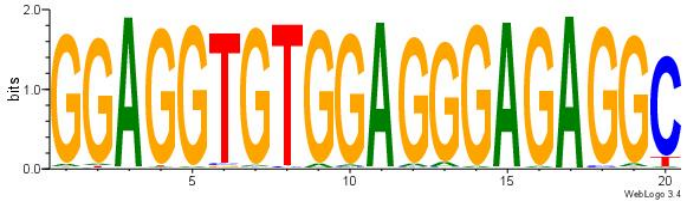

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.12544

Alignment:
ATGATCCAGCAATYCCACTH
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

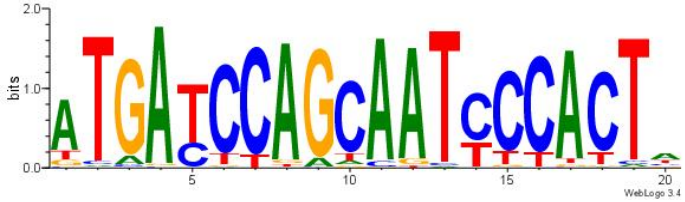

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

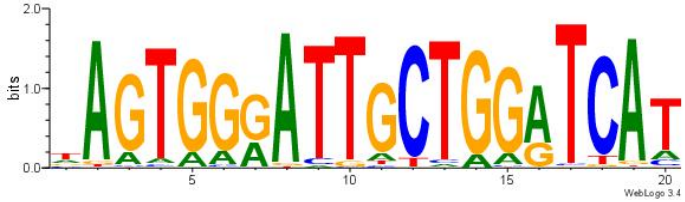

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.127899

Alignment:
CGGCGCTGMGCTCGATTTCT
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

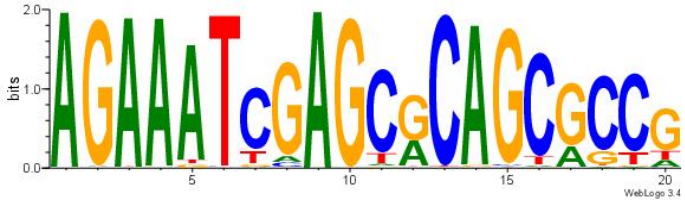

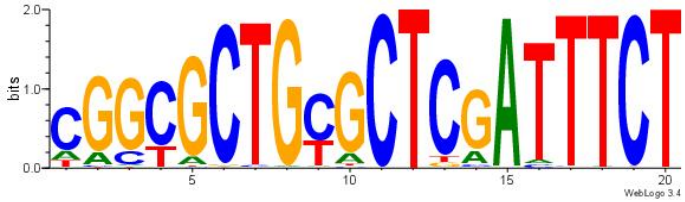

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.129078

Alignment:

```
CMTAGYACAGTGCCTGGCAC
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

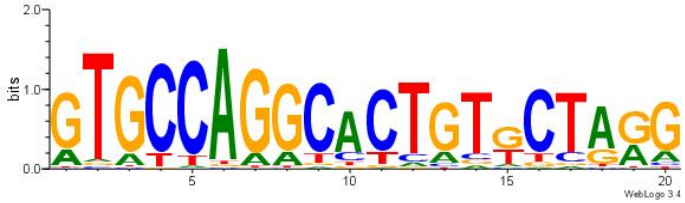

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

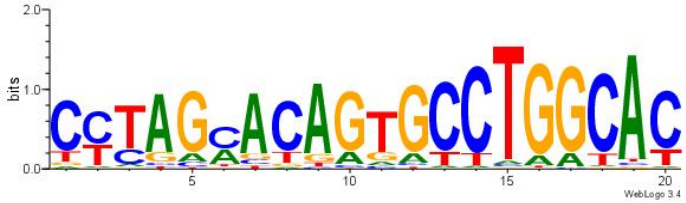

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130063

Alignment:

```
ACCTGGAAAATCGGGTCACT
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

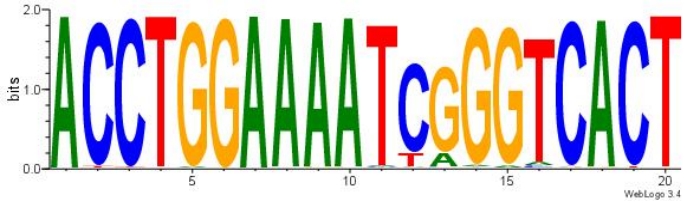

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

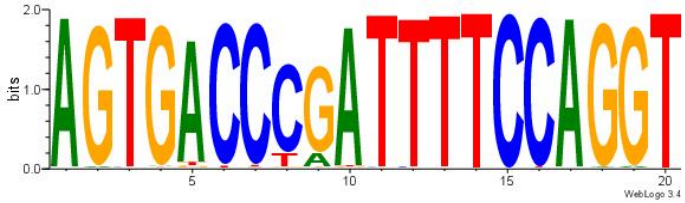

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.130278

Alignment:
GGGATTGTAAATACACCAAT
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

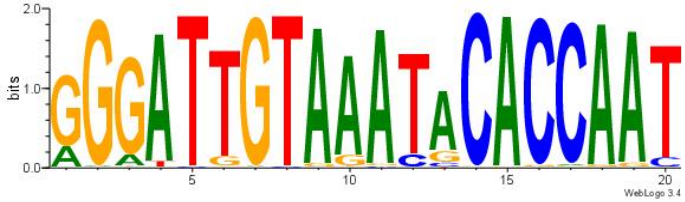

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.130479

Alignment:
CACCAGGAGATTATATCCCR
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

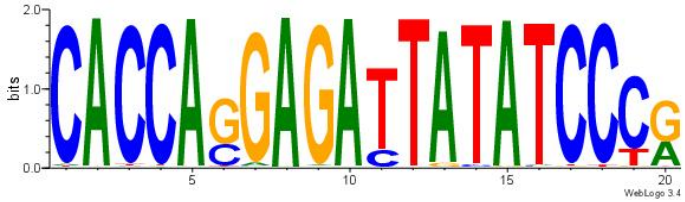

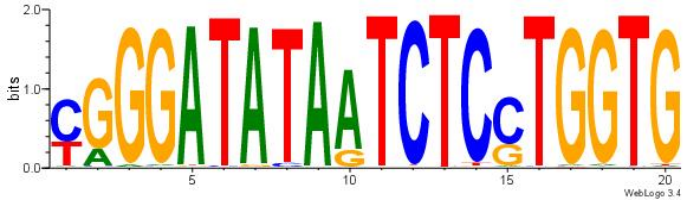

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131596

Alignment:
TMGGGAGGCTGAGGCAGGAG
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

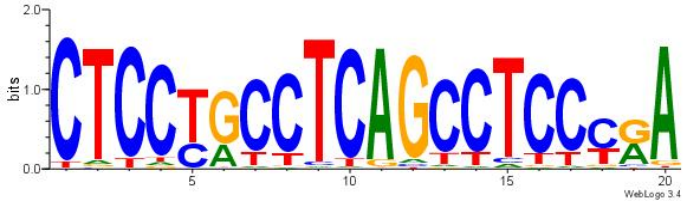

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

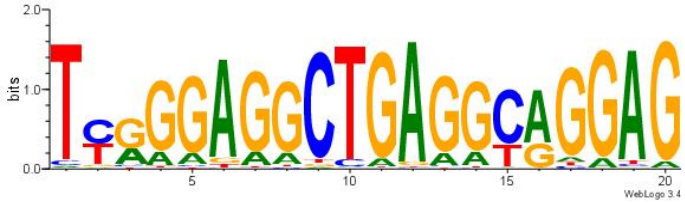

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132313

Alignment:

```
CAACATGGATGRARCTGGAG
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

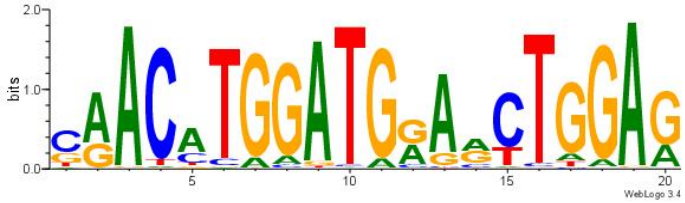

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

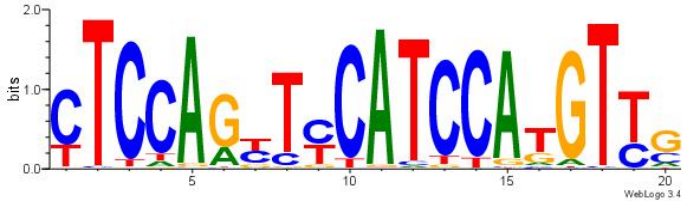

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.134848

Alignment:
GGCAATGCCTCGCCCTGCTT
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

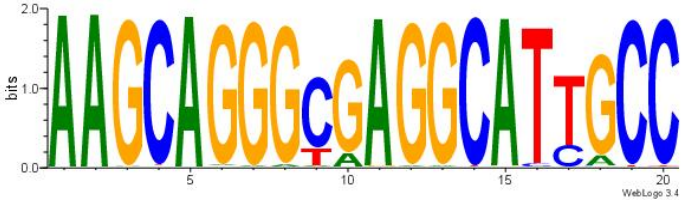

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

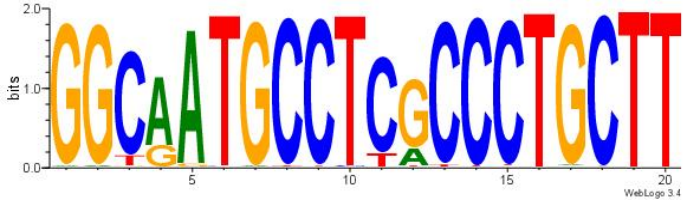

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135918

Alignment:
MTCCTCCAGACCCCAGAATG
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

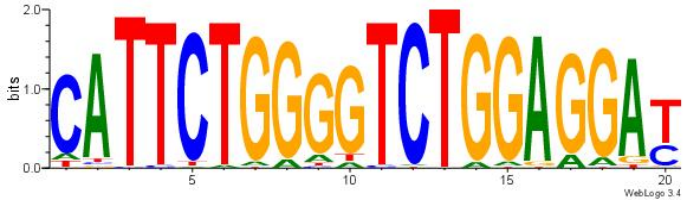

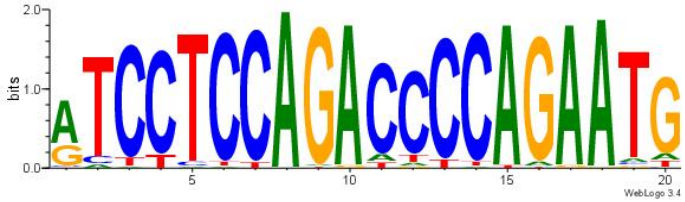

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136644

Alignment:
ACCGAGMKMGCAGCTTCGGG
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

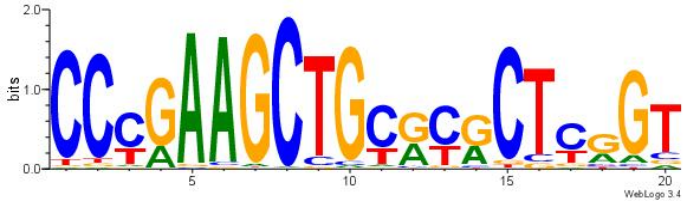

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

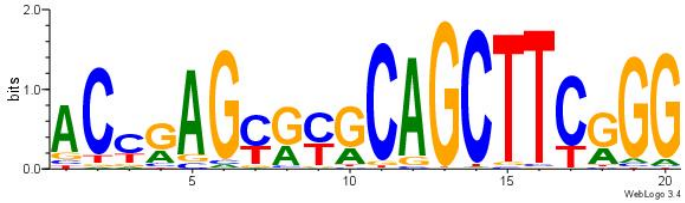

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.137581

Alignment:

```
CTTGCCCAAGGTCACACAGC
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

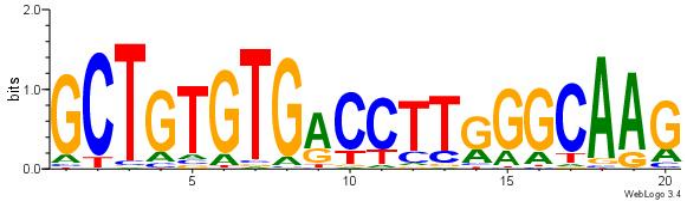

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

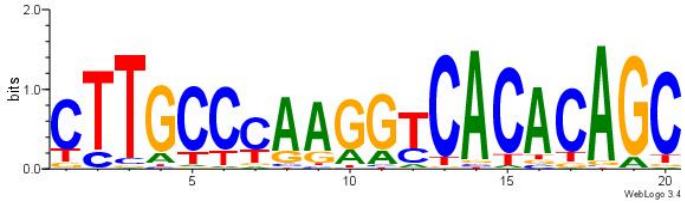

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138507

Alignment:
GACAGGAGATTAACACTGAG
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

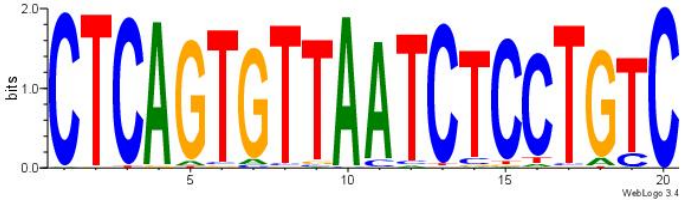

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

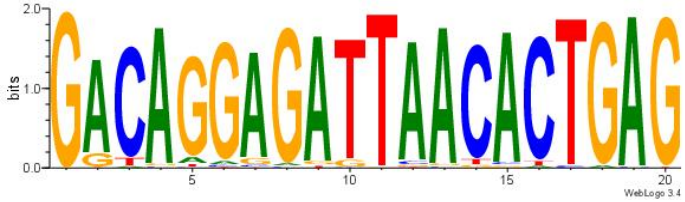

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138513

Alignment:
ACTTTGGACTGTGGACTTTT
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

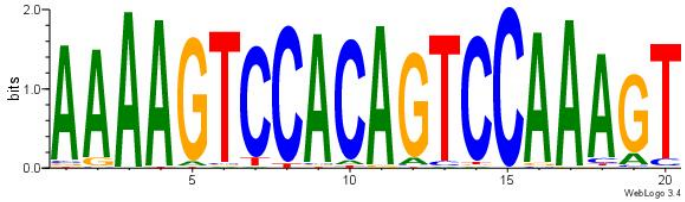

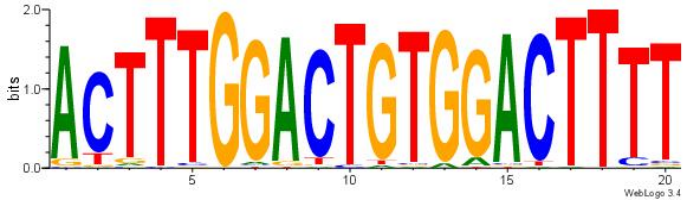

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139216

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

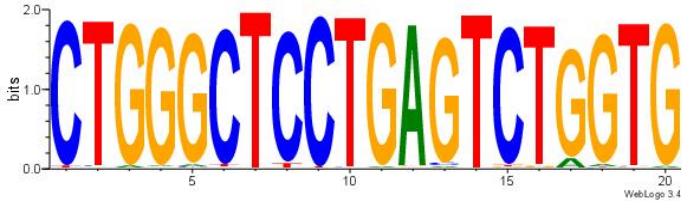

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

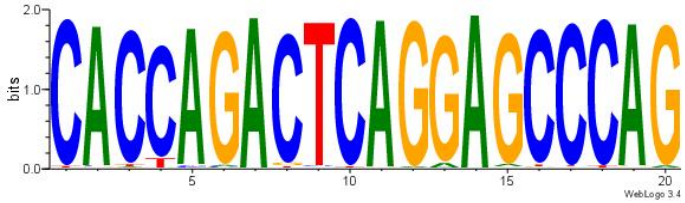

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139892

Alignment:

```
ATCTGACAGGAGGYRGAGCT
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

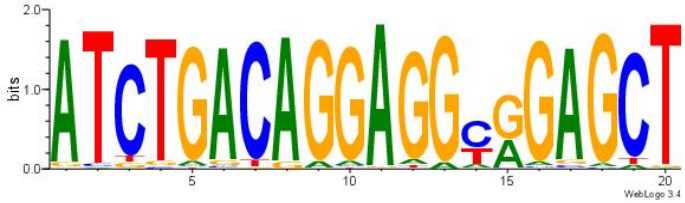

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

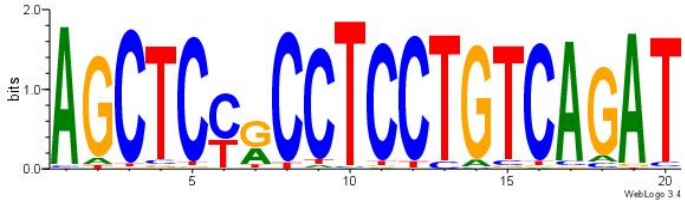

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.140762

Alignment:
TAGATAATAGCTCCAGCTTT
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

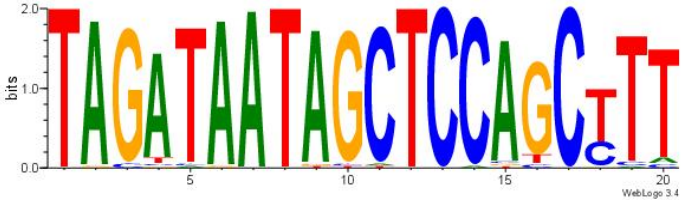

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

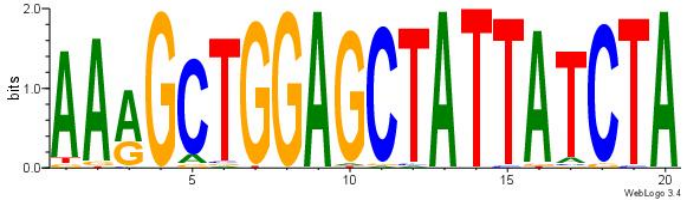

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143719

Alignment:
GTAACACTCACCGCGARGGT
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

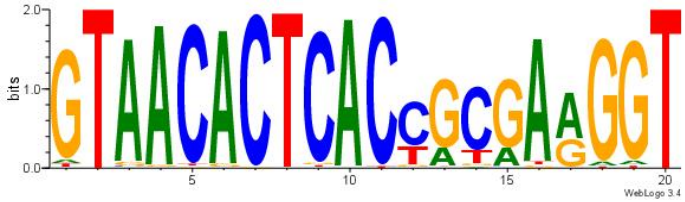

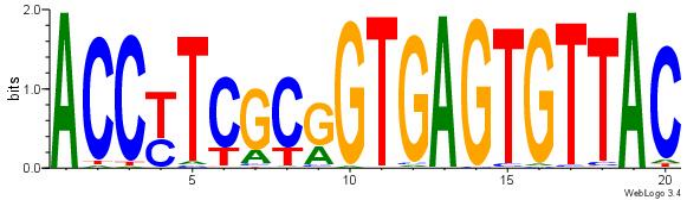

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.144368

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

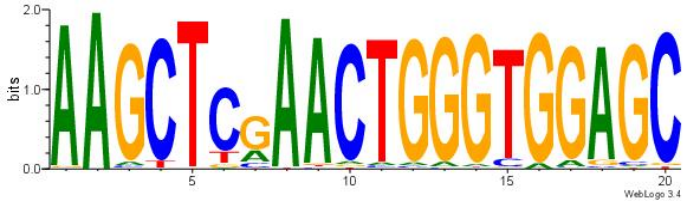

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

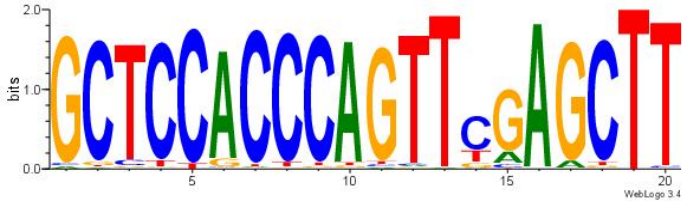

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144397

Alignment:

```
ATGGAATAYTATTCAGCCAT
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

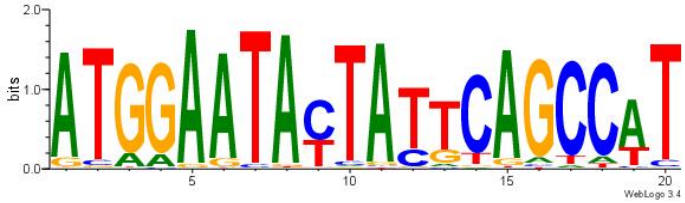

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

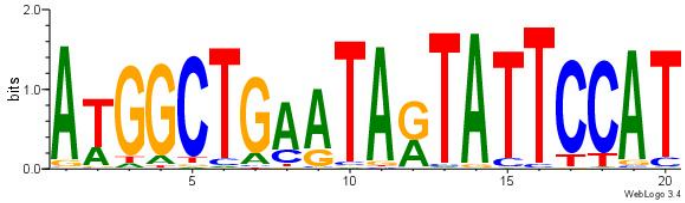

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145185

Alignment:
KKCACCTTGATCTTGGACTT
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

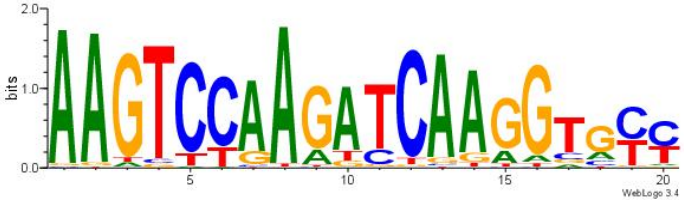

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

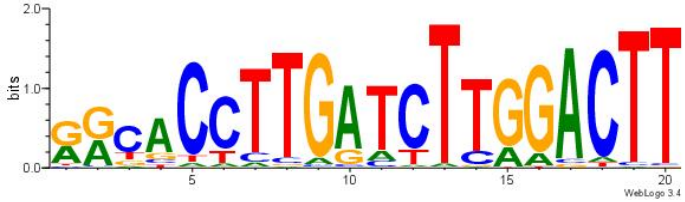

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145325

Alignment:
ATCRCTTGAGSYCAGGAGKT
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

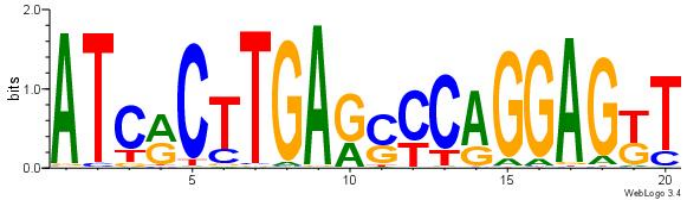

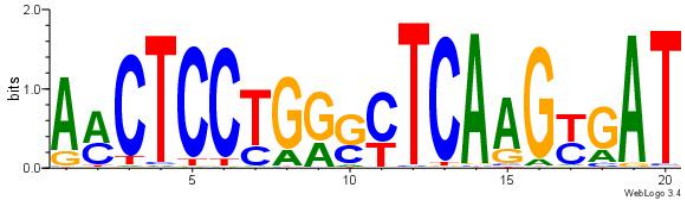

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145792

Alignment:

```
GGTTCATCTCACTAGGGAGT
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

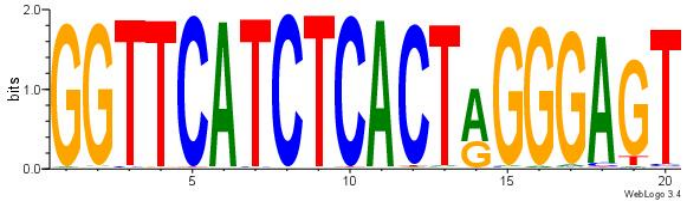

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

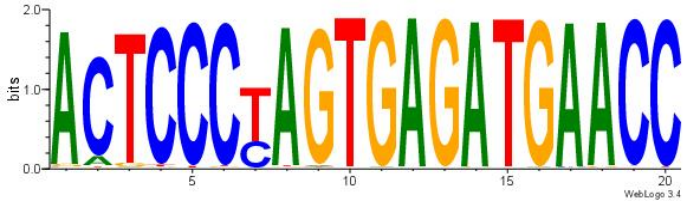

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147157

Alignment:
TCTGGAGTGGACCTCCAGCA
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

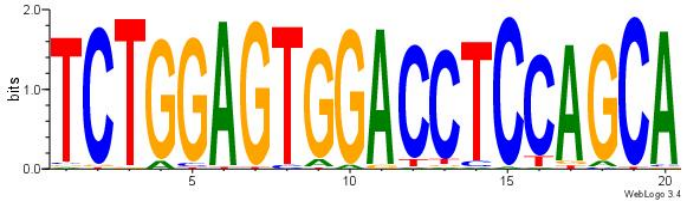

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

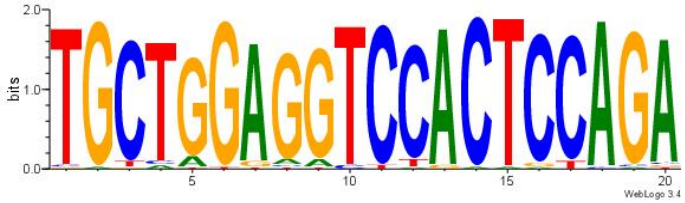

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.147218

Alignment:
AWTKKTGGTTKCCAGKGGCT
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

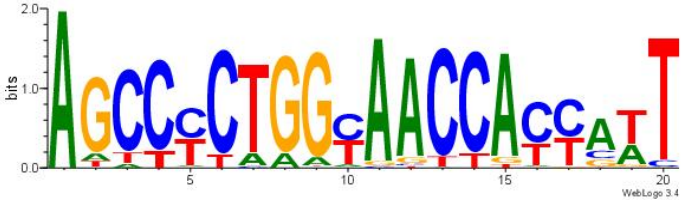

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

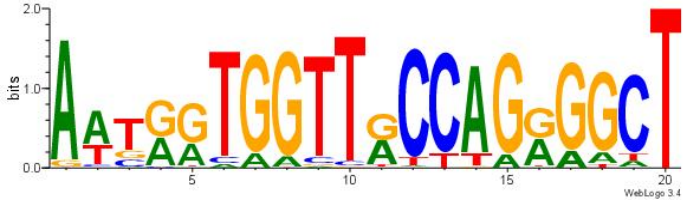

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.147726

Alignment:
GCCKGGMKCMGTGGCTCAKG
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence:
GCCKGGMKCMGTGGCTCAKG

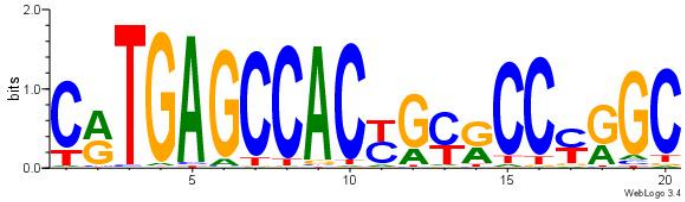

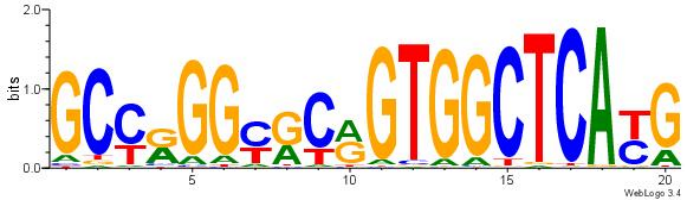

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149792

Alignment:

```
ACACATCACAAAGCAGTTTC
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

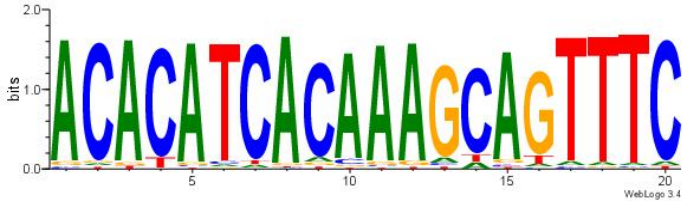

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

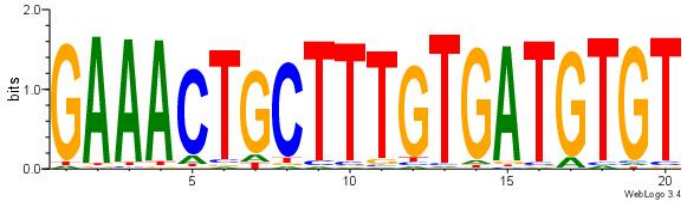

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.151254

Alignment:

```
TACCTGAGACTGGGTAATTT
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

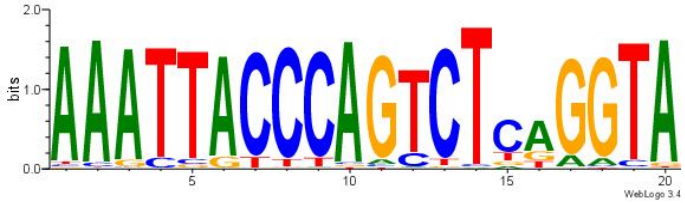

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

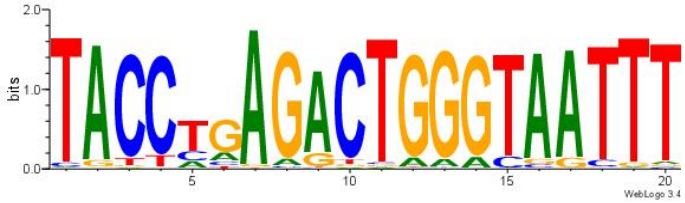

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151858

Alignment:
AGCTGTGAGAAGAGGGCCAC
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

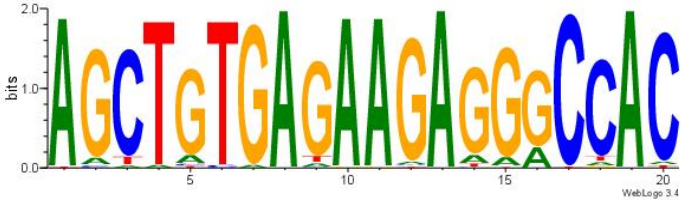

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

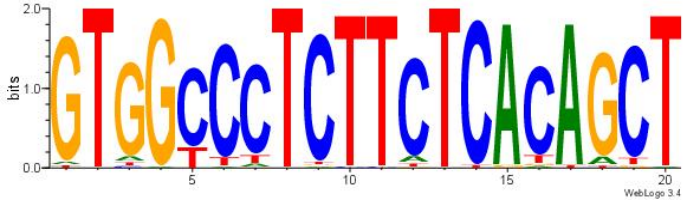

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152023

Alignment:
MGTCTMKCTCTGTKGCCCAG
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

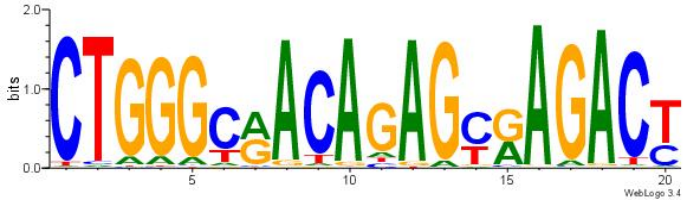

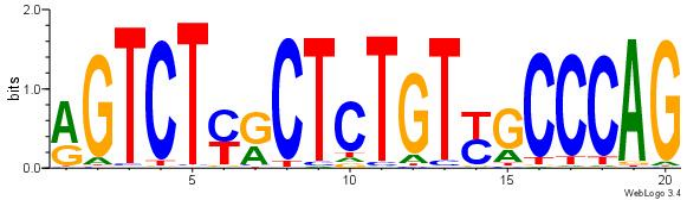

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152519

Alignment:

```
AGGTCCTTCAGGAGGTATTC
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

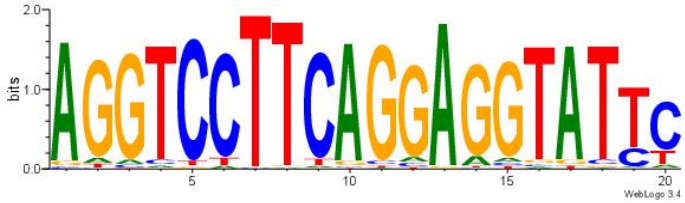

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

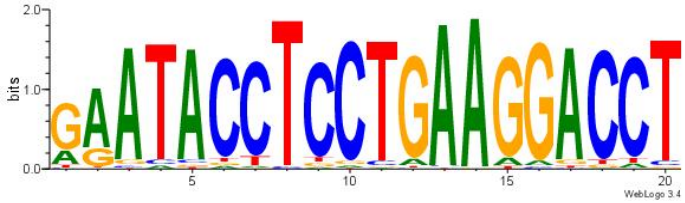

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152777

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
AGGACTGAGGGTGCCYRGGG
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

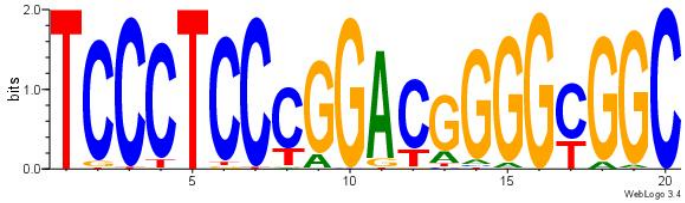

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

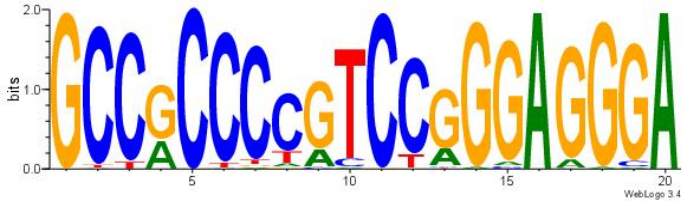

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.15304

Alignment:
TTGGTAGGATCCGTGATGCC
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

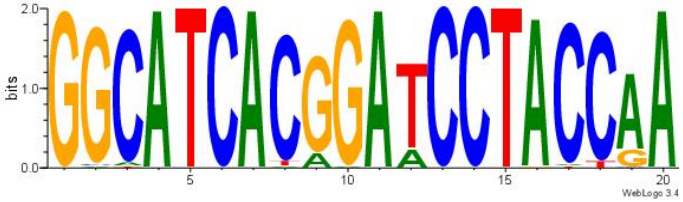

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

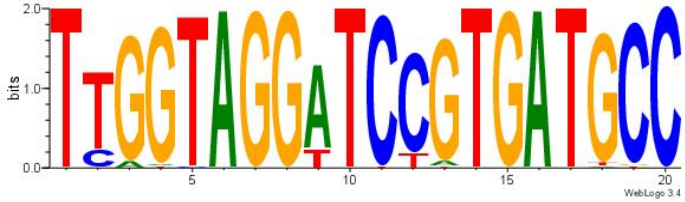

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.153309

Alignment:
GACTGGCAGGCAGCTCCACC
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

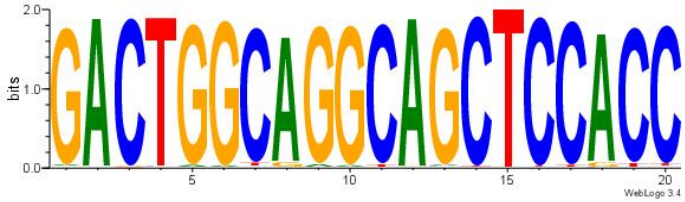

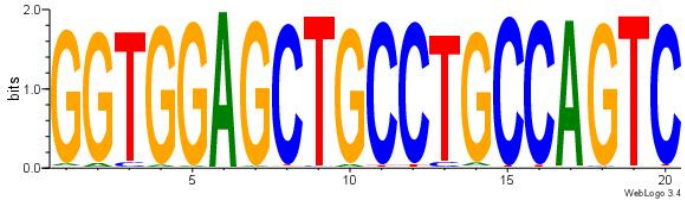

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153316

Alignment:

```
AAATTAGGCCAATTAATAAC
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

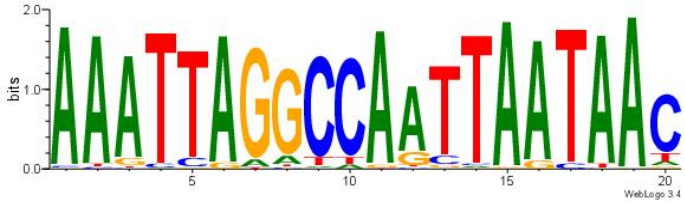

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153342

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

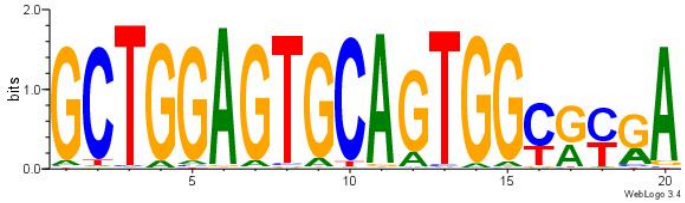

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

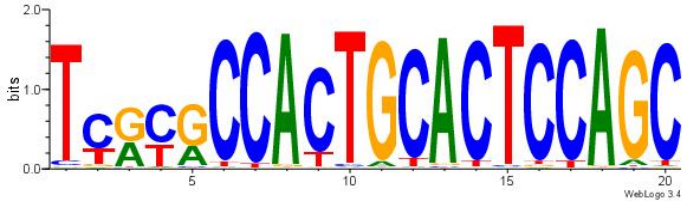

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153867

Alignment:
GGGCTCCCACAGTGCAGCGG
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

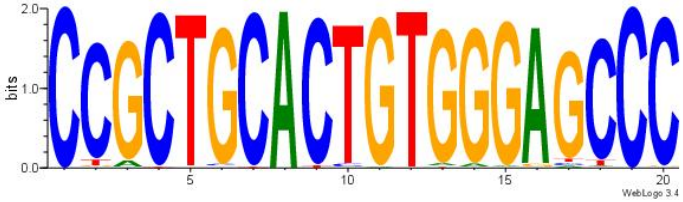

Reverse complement motif Consensus sequence:
GGGCTCCCACAGTGCAGCGG

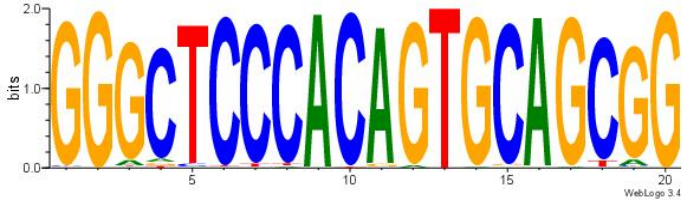

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154205

Alignment:
CGCGGCGCTTGCGGGCCAGC
AGGACTGAGGGTGCCYRGGG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

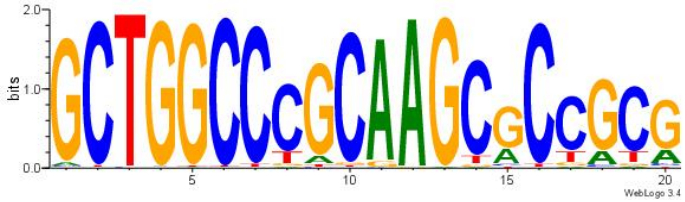

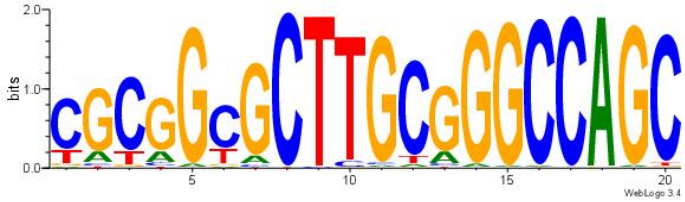

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154387

Alignment:

```
CCACCACAGCTCAAGGAGGC
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

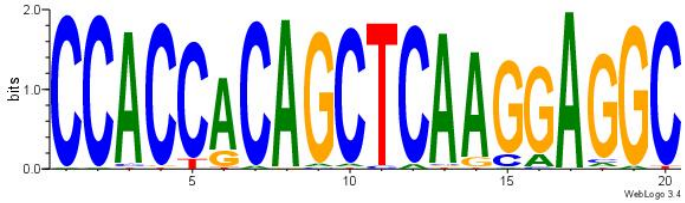

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

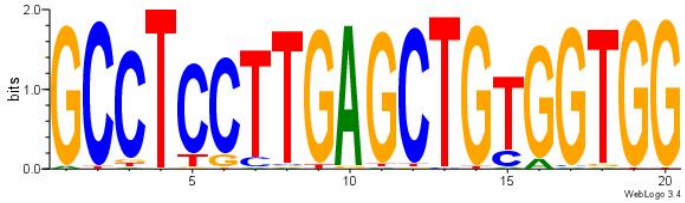

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154829

Alignment:

```
CTAGACATAAAGGTTCTCCA
CCCMKGGCACCCTCAGTCCT
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

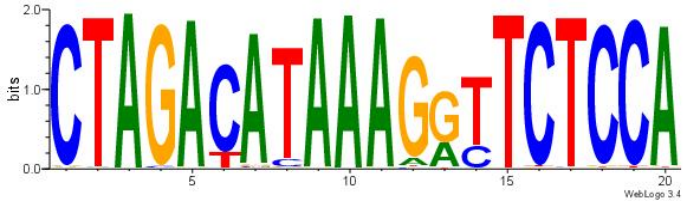

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

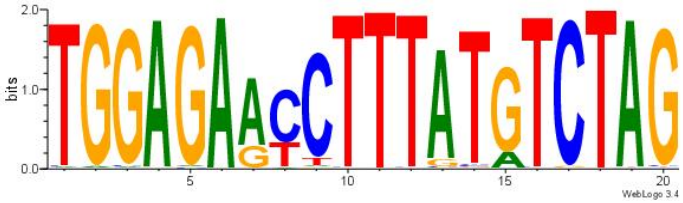

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155546

Alignment:
AGGTTTGTTACATAGGTAWA
CCCMKGGCACCCTCAGTCCT

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

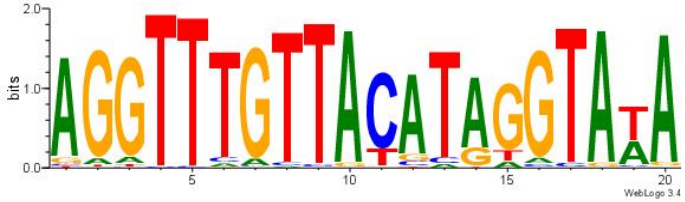

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

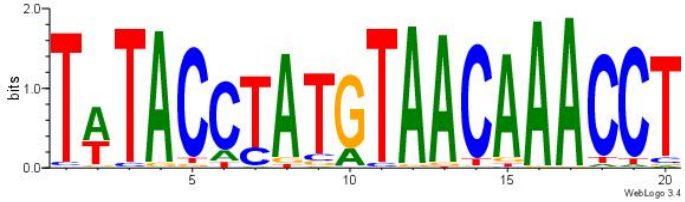

Dataset #: 1 Motif ID: 313 Motif name: Motif 313

Original motif Consensus sequence: CTCCTGCCTCAGCY

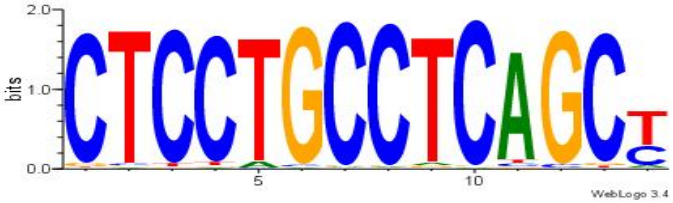

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

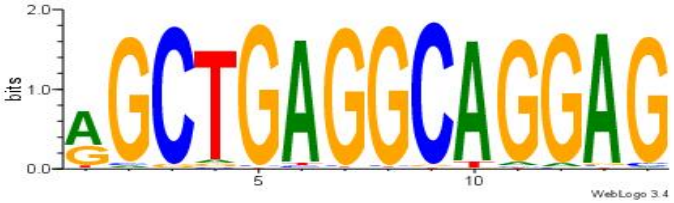

Best Matches for Motif ID 313 (Highest to Lowest)

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0298178

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
CTCCTGCCTCAGCY------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

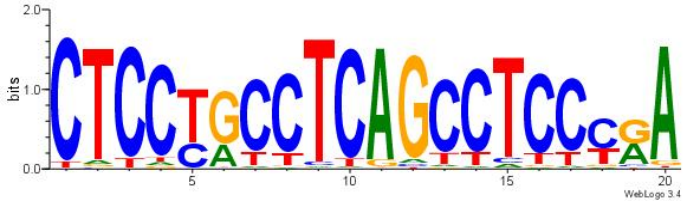

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

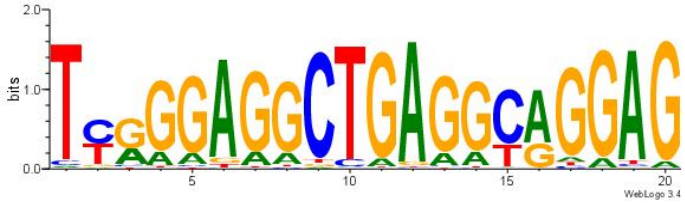

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0599095

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-----MGCTGAGGCAGGAG-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

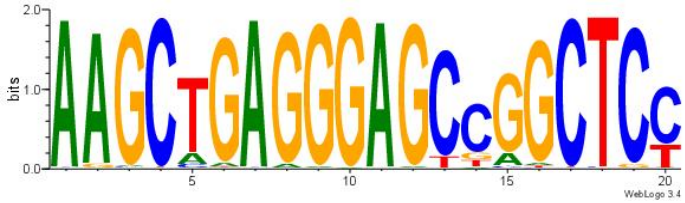

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

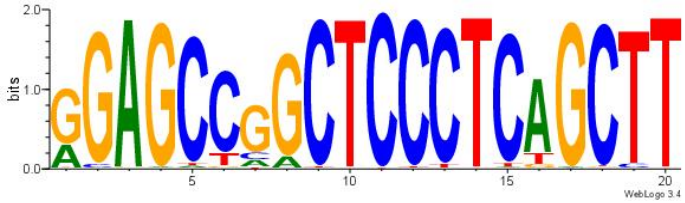

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0742075

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
--MGCTGAGGCAGGAG----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

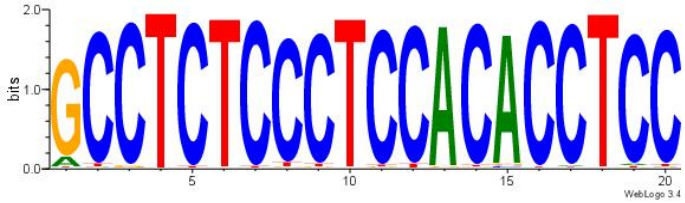

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

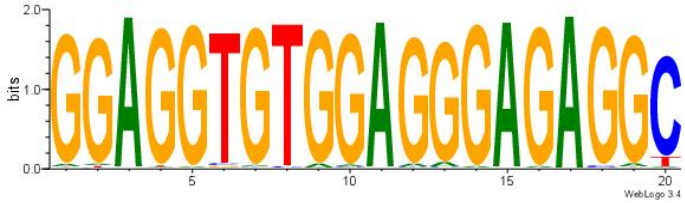

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0752599

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-----CTCCTGCCTCAGCY-
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

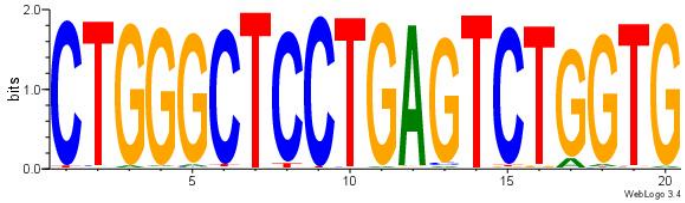

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

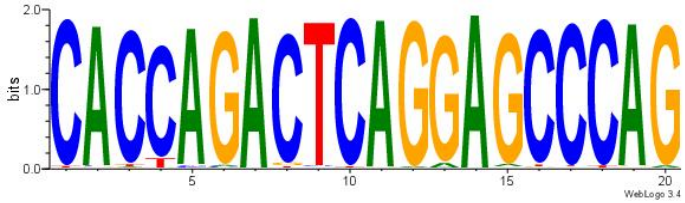

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.0799645

Alignment:
CGCACTCCTCAGCC
CTCCTGCCTCAGCY

Original motif Consensus sequence: CGCACTCCTCAGCC

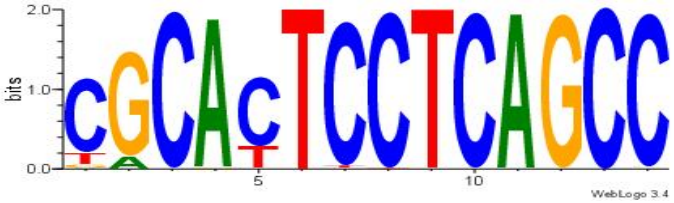

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

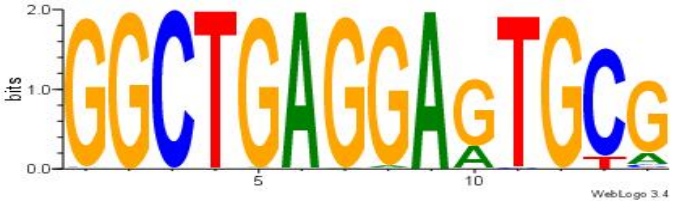

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0802997

Alignment:
GGCTGCGGAGGGTGTA
--MGCTGAGGCAGGAG

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

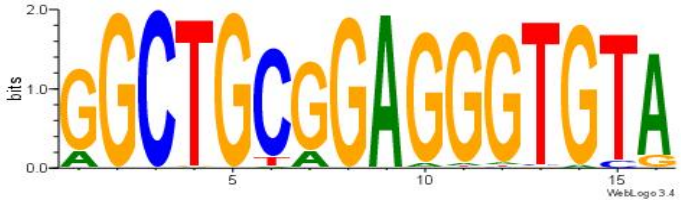

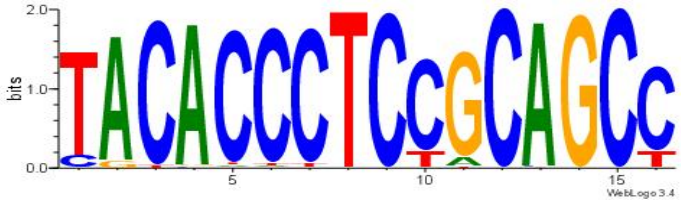

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0809955

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
------MGCTGAGGCAGGAG
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

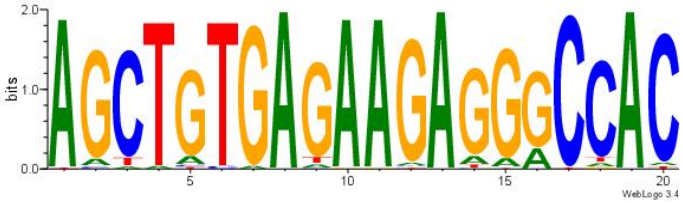

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

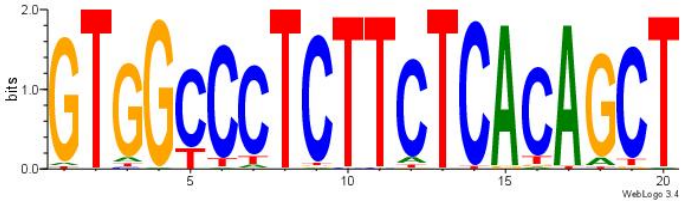

Dataset #:	1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0814469

Alignment:

```
GAATCCTGGGACAGCCTGT
--CTCCTGCCTCAGCY---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

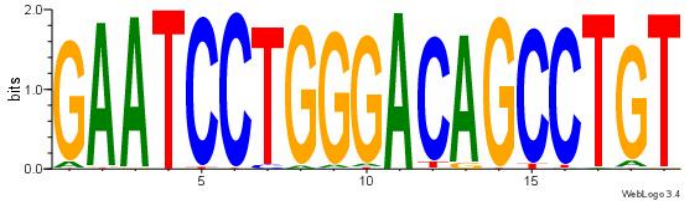

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

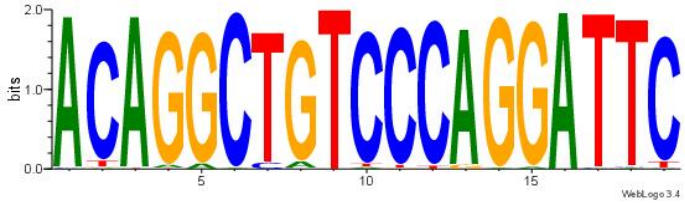

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	14

Similarity score: 0.0905785

Alignment:
GAAGGCAGCTAAGGCCCGGY
MGCTGAGGCAGGAG------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

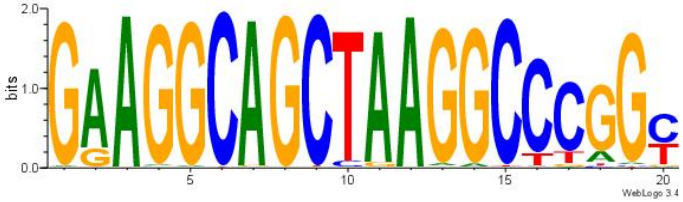

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

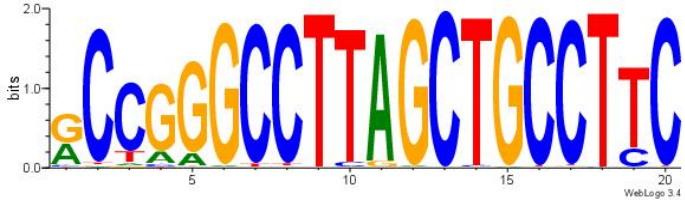

Dataset #: 1
Motif ID: 307
Motif name: Motif 307
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0927391

Alignment:
AGAGCTCTGGCTGGCATCT
--MGCTGAGGCAGGAG---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

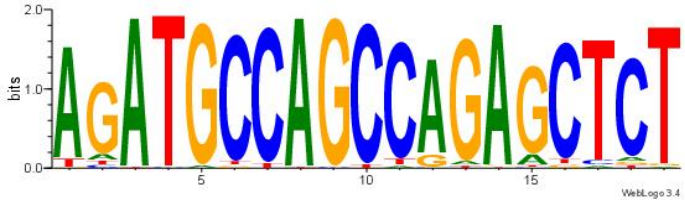

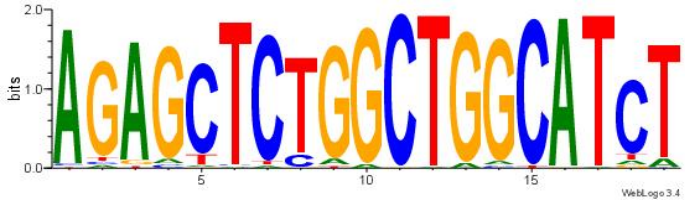

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.0936155

Alignment:
AGGTCCTTCAGGAGGTATTC
------MGCTGAGGCAGGAG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

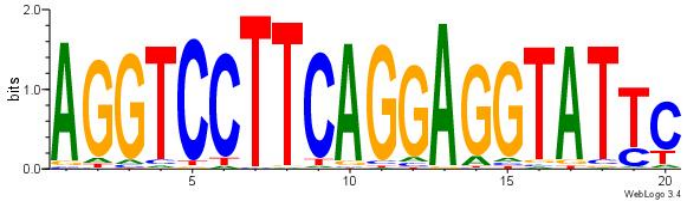

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

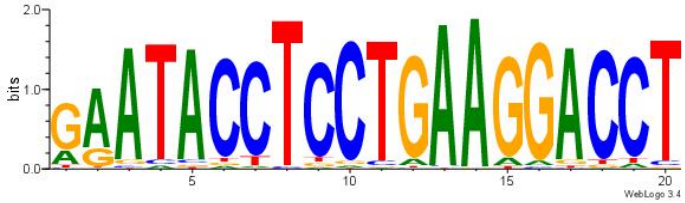

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.0962182

Alignment:

```
CTCCAGKTMCATCCATGTTG
------CTCCTGCCTCAGCY
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

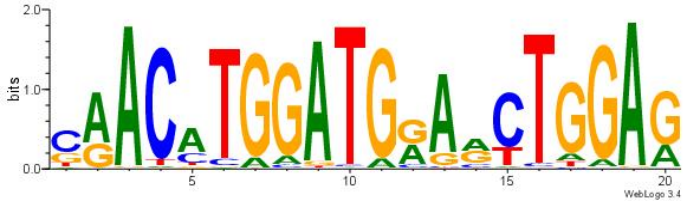

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

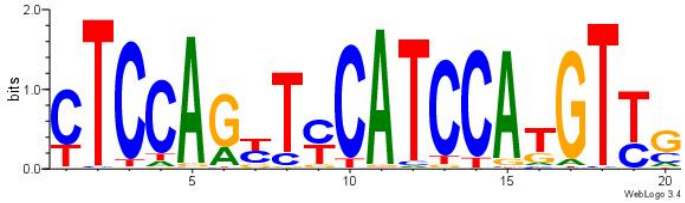

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14

Similarity score: 0.0975942

Alignment:
AAAGTGCCGAGAKTGCAGC
-MGCTGAGGCAGGAG----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

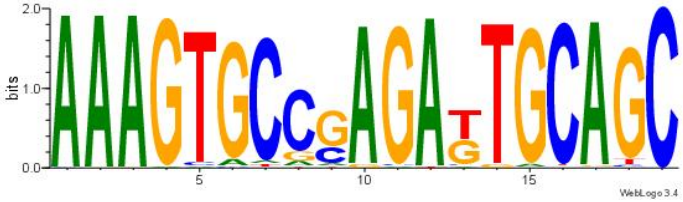

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

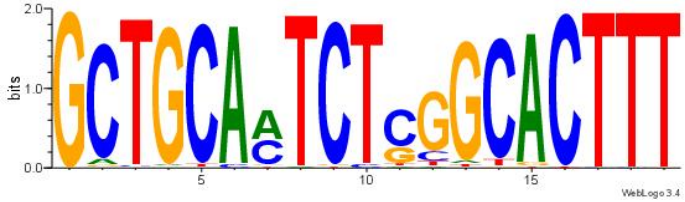

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.098752

Alignment:
AAATTACCCAGTCTCAGGTA
-----CTCCTGCCTCAGCY-

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

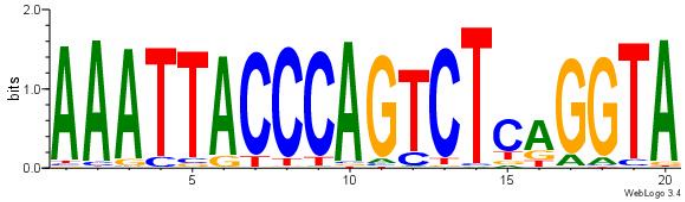

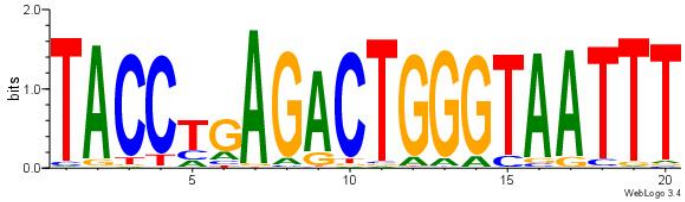

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0990191

Alignment:

```
CGTCGCTCACGCTGGGAGCT
---MGCTGAGGCAGGAG---
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

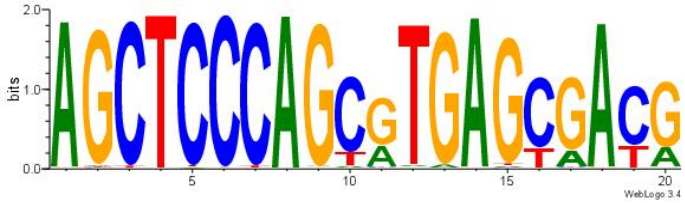

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

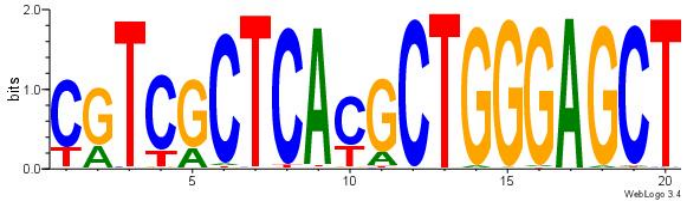

Dataset #: 1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0990735

Alignment:

```
TTGAGGAGGCAGTCTG
-MGCTGAGGCAGGAG-
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

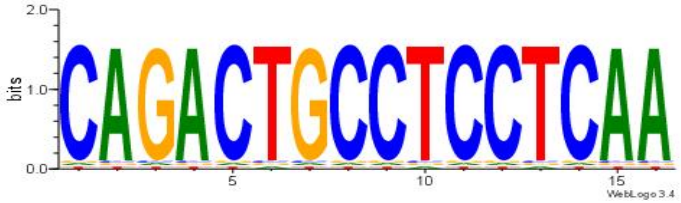

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

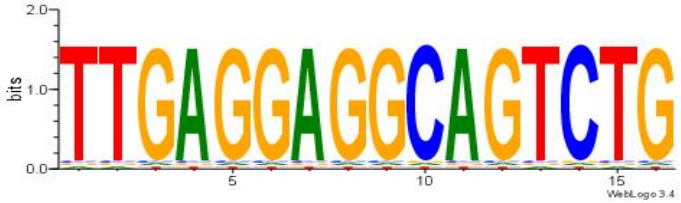

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.100432

Alignment:
CTCCTGACCTCGTGATC
---CTCCTGCCTCAGCY

Original motif Consensus sequence: GATCACGAGGTCAGGAG

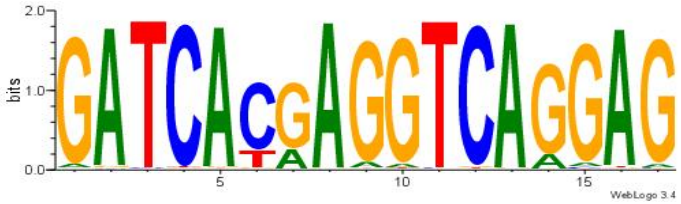

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

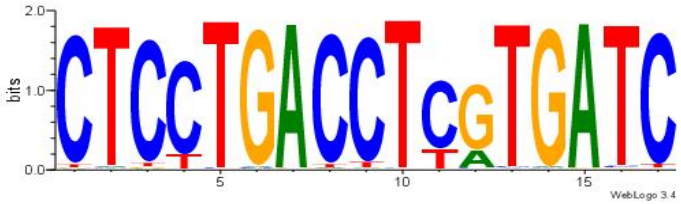

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.10159

Alignment:
AGAGCCAAATCATGARTGAA
--MGCTGAGGCAGGAG----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

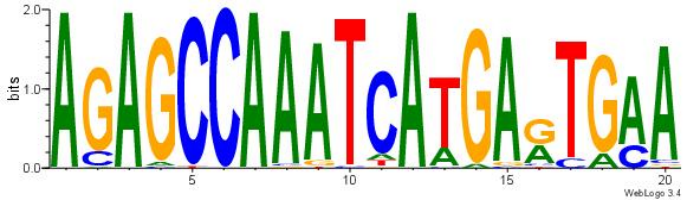

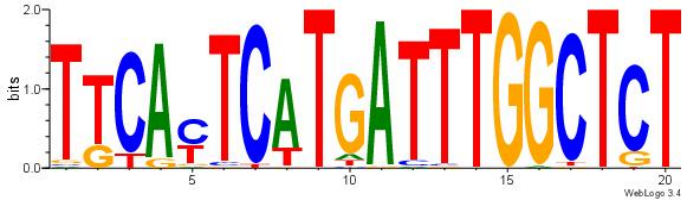

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.103082

Alignment:

```
TGCCCAGTCTGGAAAGTG
----MGCTGAGGCAGGAG
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

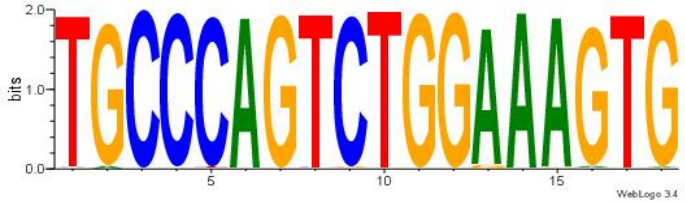

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

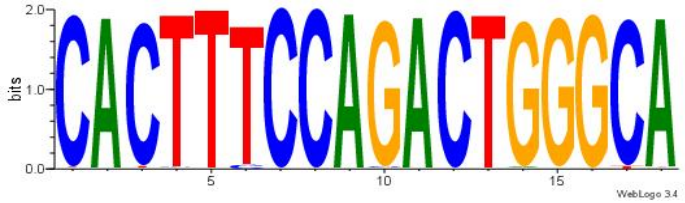

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.103295

Alignment:

```
ACTGTCTTCCACCTCCACAT
-----CTCCTGCCTCAGCY-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

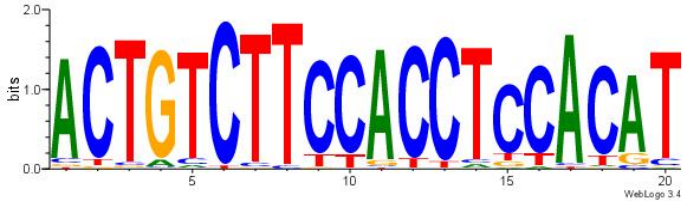

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

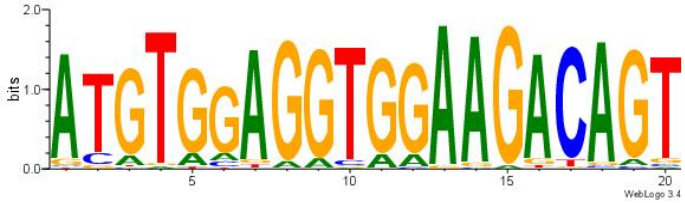

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.10389

Alignment:
TGHCCTGCKCCCACTGTCT
----CTCCTGCCTCAGCY-

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

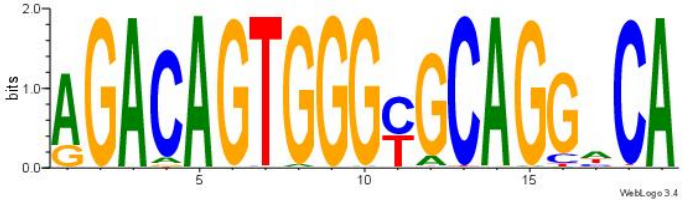

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

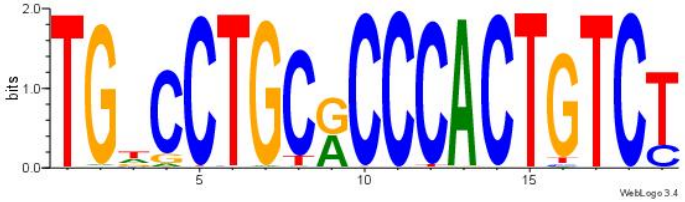

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.105419

Alignment:
GCGCTCKTCGGGGAGGCTCG
-MGCTGAGGCAGGAG-----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

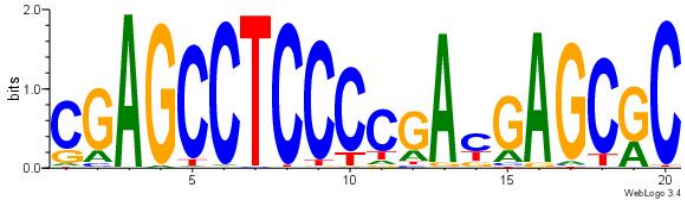

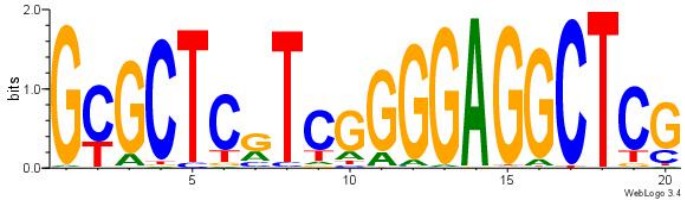

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.106066

Alignment:

```
GGTTCATCTCACTAGGGAGT
-MGCTGAGGCAGGAG-----
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

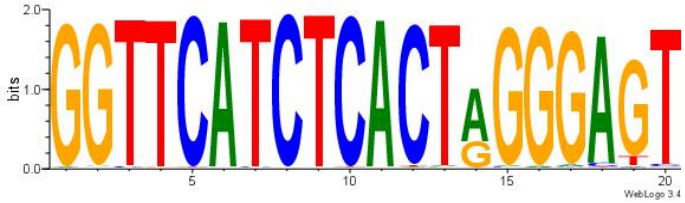

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

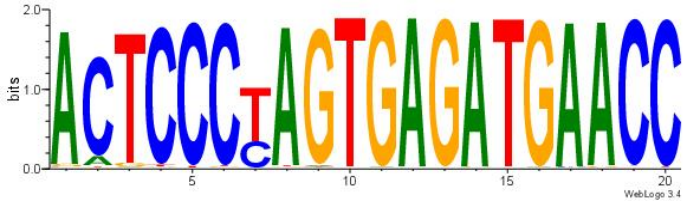

Dataset #: 1

Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.108821

Alignment:

```
GCCACCAMGCCMKGCTAAT
---CTCCTGCCTCAGCY--
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

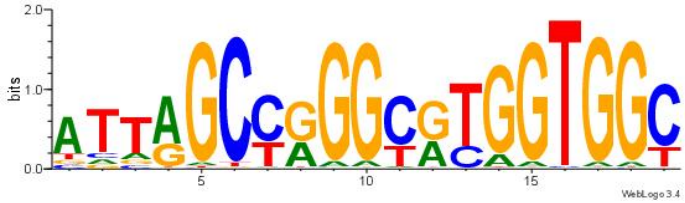

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

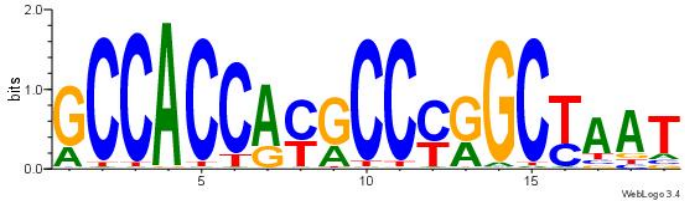

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.109295

Alignment:
GGCAATGCCTCGCCCTGCTT
-CTCCTGCCTCAGCY-----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

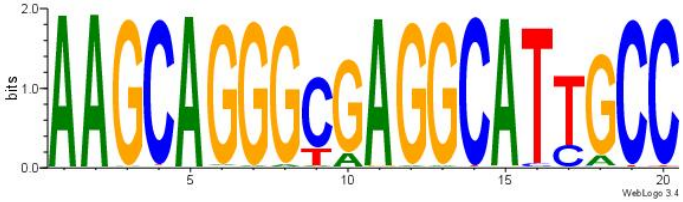

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

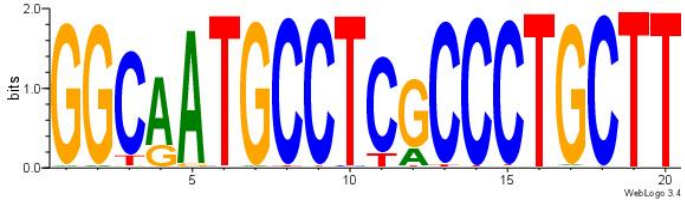

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.110143

Alignment:
CAAAGGCATAAGAATGAT
MGCTGAGGCAGGAG----

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

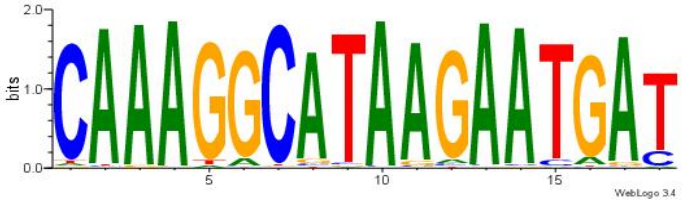

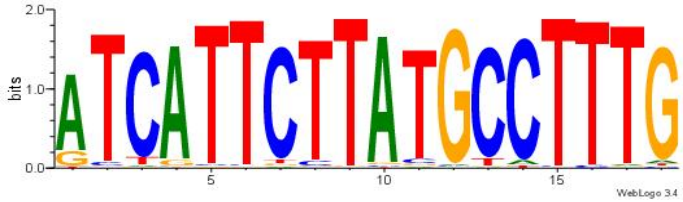

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.110218

Alignment:

```
GCGMGCGGGAACCGGGGCT
---MGCTGAGGCAGGAG--
```

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

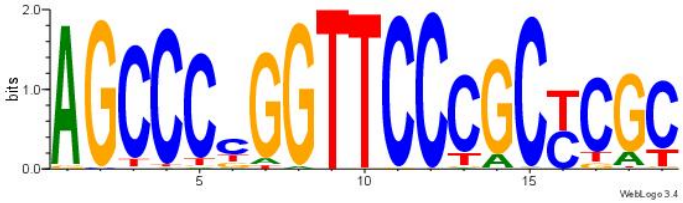

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

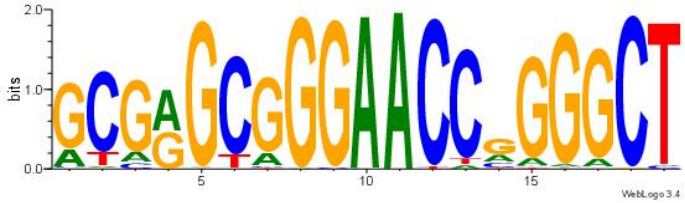

Dataset #:	1

Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112061

Alignment:

```
TCTCTGAGCCTCAGTT
--CTCCTGCCTCAGCY
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

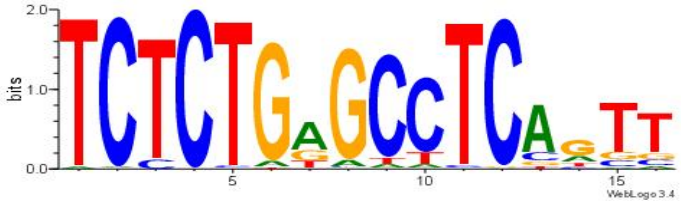

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

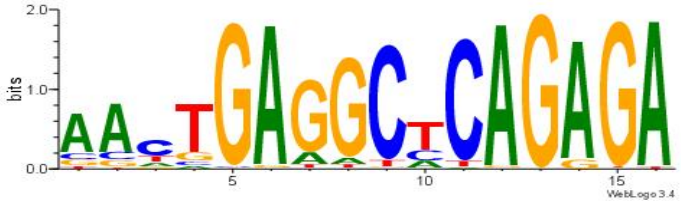

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.112309

Alignment:
VCCDCCTCCKCCTCCTC
-CTCCTGCCTCAGCY--

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

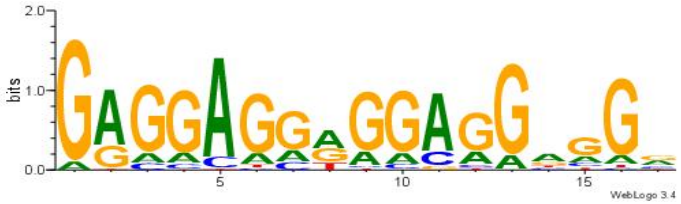

Reverse complement motif Consensus sequence:
VCCDCCTCCKCCTCCTC

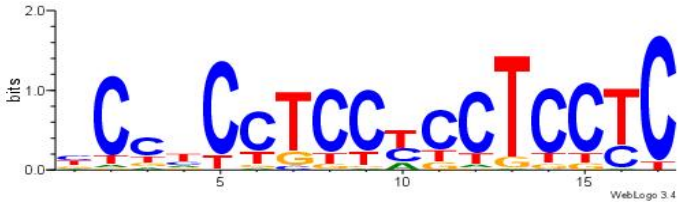

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.112415

Alignment:
AGGACTGAGGGTGCCYRGGG
----MGCTGAGGCAGGAG--

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

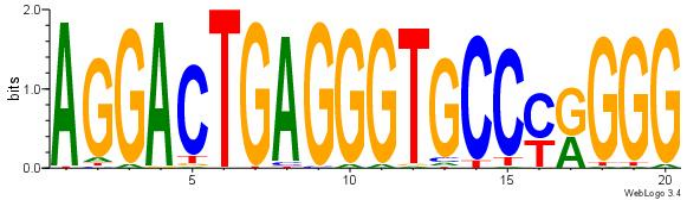

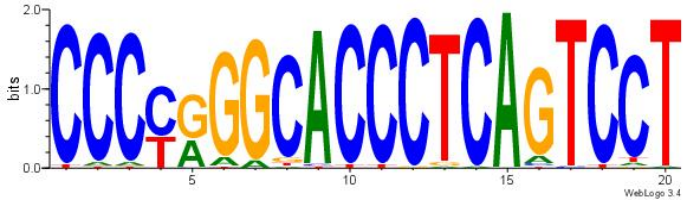

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.11256

Alignment:

```
ATCTGACAGGAGGYRGAGCT
--MGCTGAGGCAGGAG----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

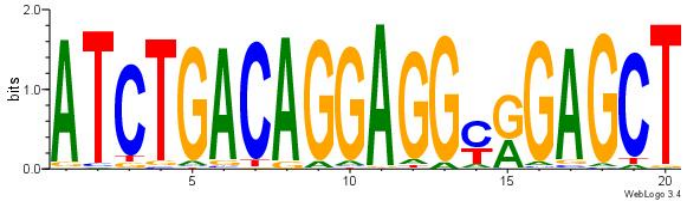

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

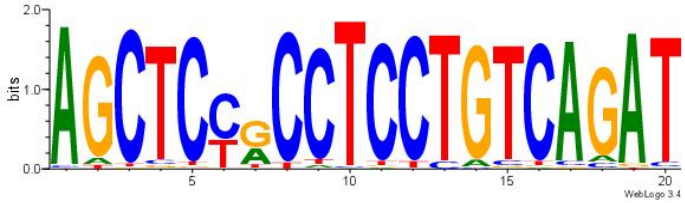

Dataset #:	1

Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.112786

Alignment:

```
AGACCAGCCTGGCCAAC
-CTCCTGCCTCAGCY--
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

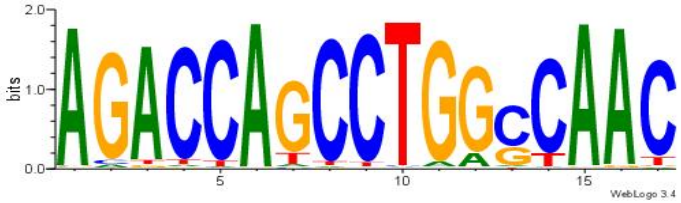

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

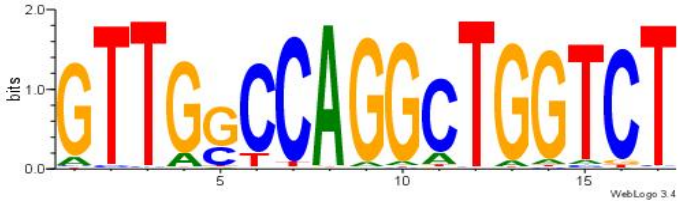

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.112807

Alignment:
CCGCGGGGCAGGGCTCG
MGCTGAGGCAGGAG---

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

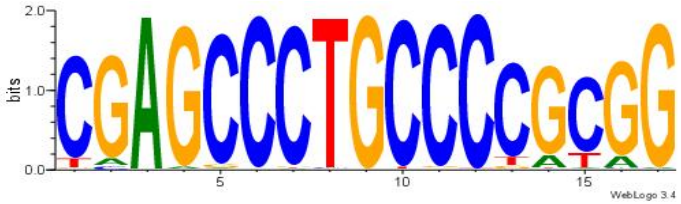

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

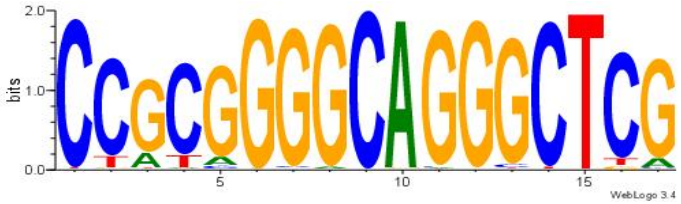

Dataset #: 1
Motif ID: 278
Motif name: Motif 278
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.113026

Alignment:
TGTTATGCCTGAAAGT
-CTCCTGCCTCAGCY-

Original motif Consensus sequence: ACTTTCAGGCATAACA

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

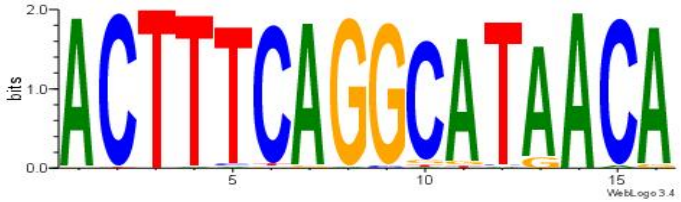

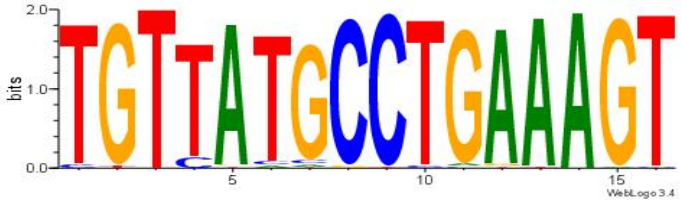

Dataset #:	1
Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.113293

Alignment:

```
GCGGCTGGCCGGGCG
CTCCTGCCTCAGCY-
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

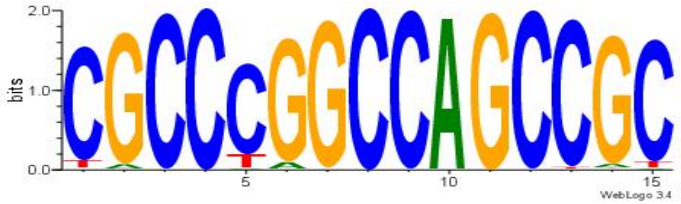

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

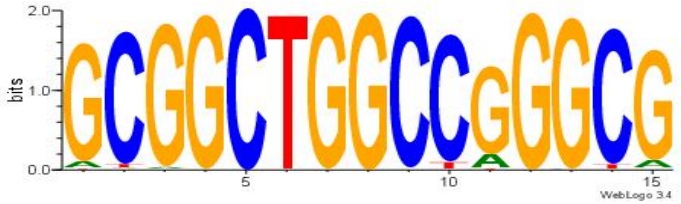

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.113547

Alignment:

```
GGCACTGCTGGGGGACCCAG
--MGCTGAGGCAGGAG----
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

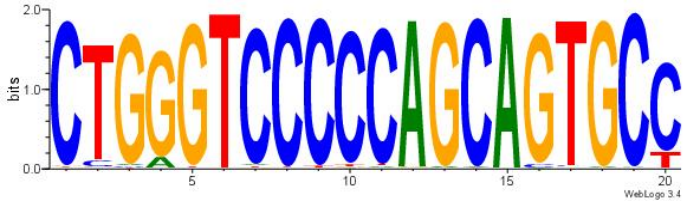

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

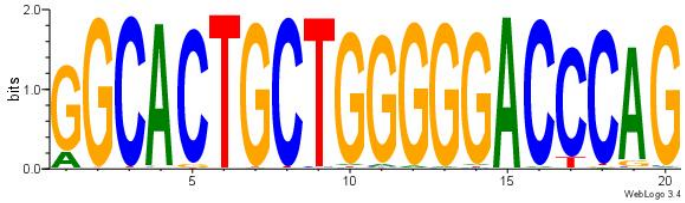

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14

Similarity score: 0.11368

Alignment:
GGGCTCCCACAGTGCAGCGG
------CTCCTGCCTCAGCY

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

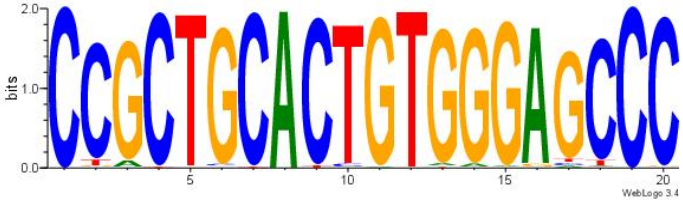

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

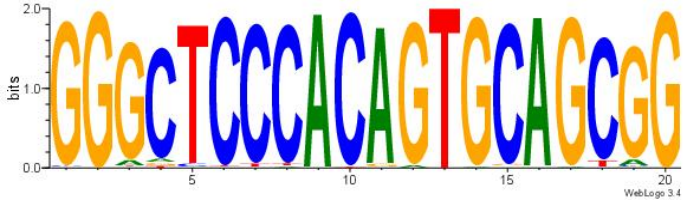

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.114083

Alignment:
CCACCACAGCTCAAGGAGGC
----MGCTGAGGCAGGAG--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

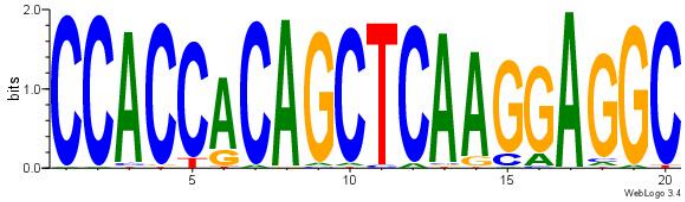

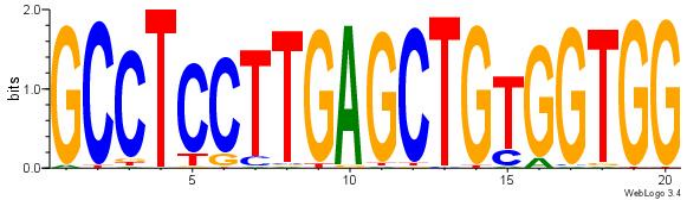

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.11416

Alignment:

```
CACCTCCCAGACMGGGT
---MGCTGAGGCAGGAG
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

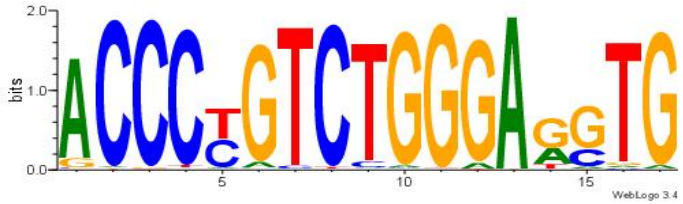

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

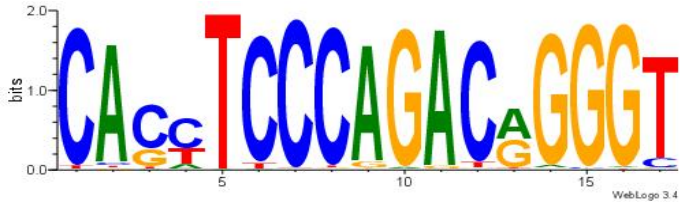

Dataset #:	1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.114564

Alignment:

```
GGGGGAGACATCACACR
---MGCTGAGGCAGGAG
```

Original motif Consensus sequence: GGGGGAGACATCACACR

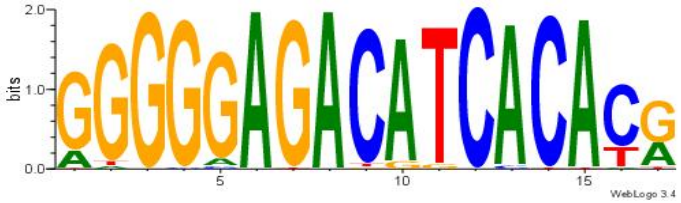

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

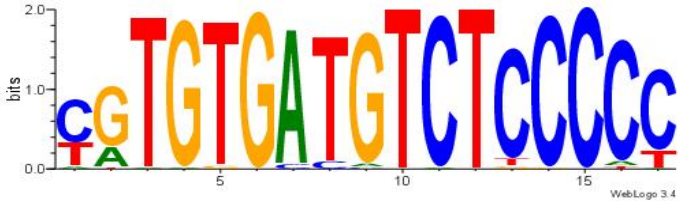

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.114802

Alignment:
CAAGCCTSKGCAATGGCAGG
--MGCTGAGGCAGGAG----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

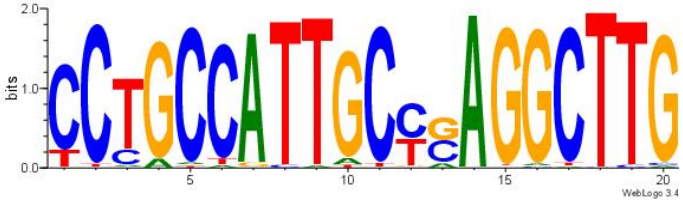

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

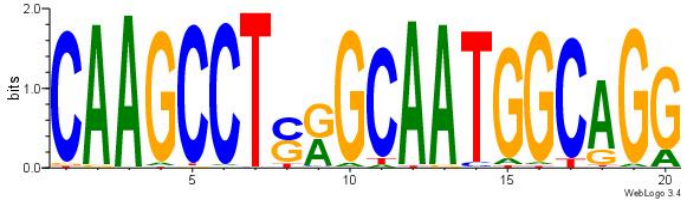

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.115845

Alignment:
AAGCTCGAACTGGGTGGAGC
-----MGCTGAGGCAGGAG-

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

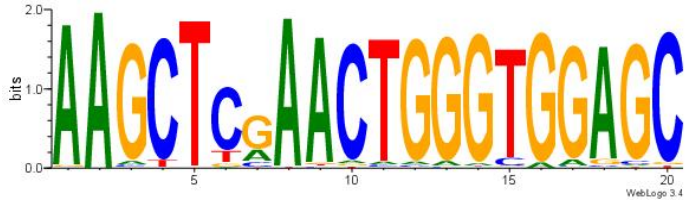

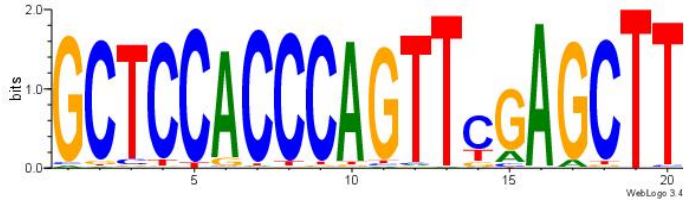

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.11649

Alignment:

```
CAAGTTGACACATAAAATTA
--MGCTGAGGCAGGAG----
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

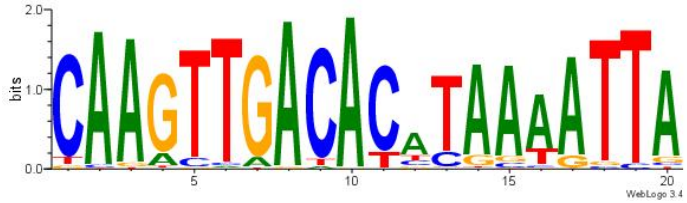

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.117609

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
------MGCTGAGGCAGGAG
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

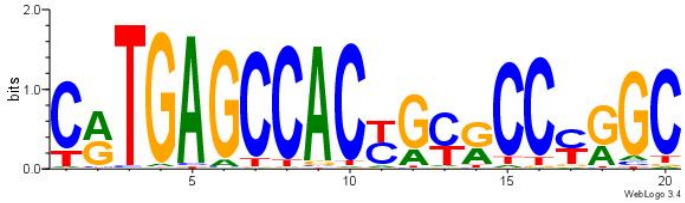

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

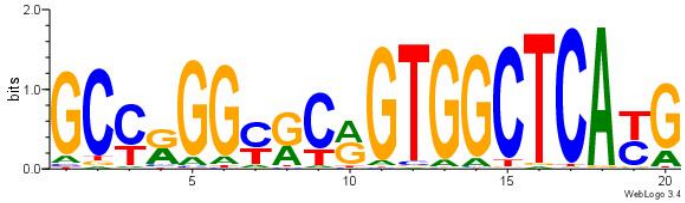

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.117731

Alignment:
ACTCAGCCCRCCTGCACCC
----CTCCTGCCTCAGCY-

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

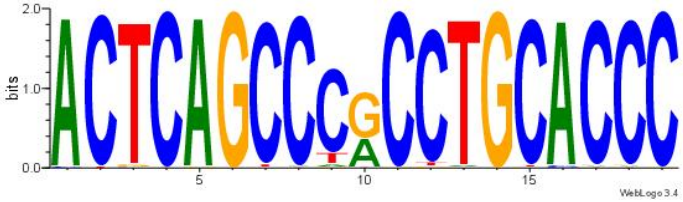

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

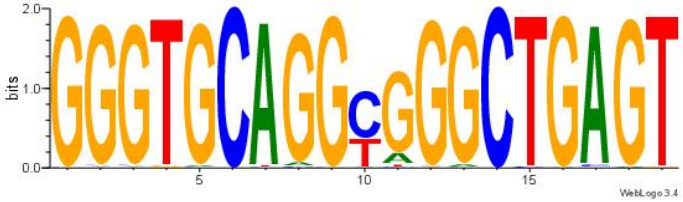

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.117937

Alignment:
ATCTCASAAATCACCACTA
--CTCCTGCCTCAGCY---

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

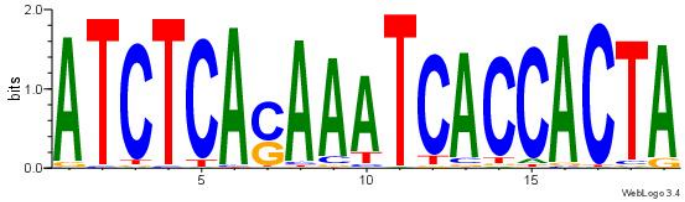

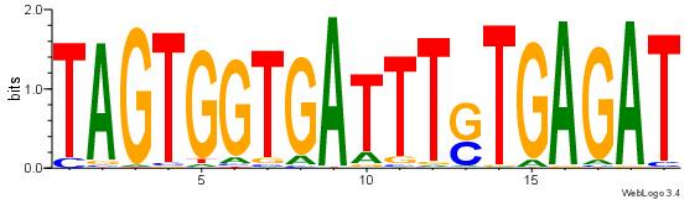

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.11794

Alignment:
ATTCAASATGAGATTTGGG
-----MGCTGAGGCAGGAG

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

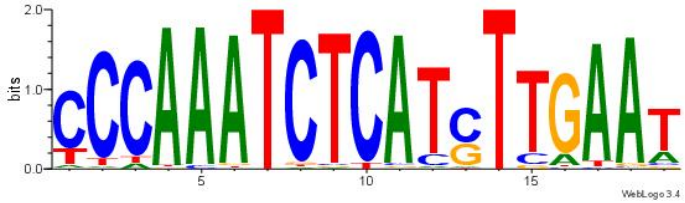

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

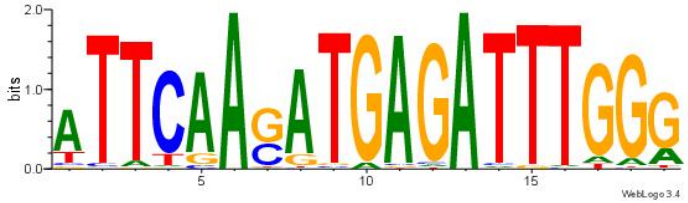

Dataset #: 1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.118557

Alignment:

```
TCCCTCCCGGACGGGGYGGC
---CTCCTGCCTCAGCY---
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

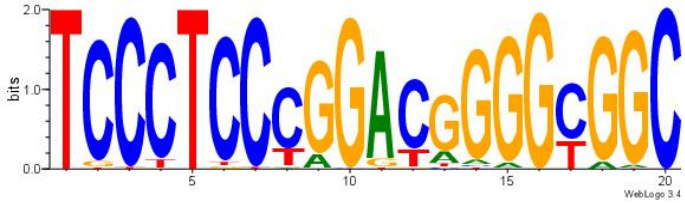

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

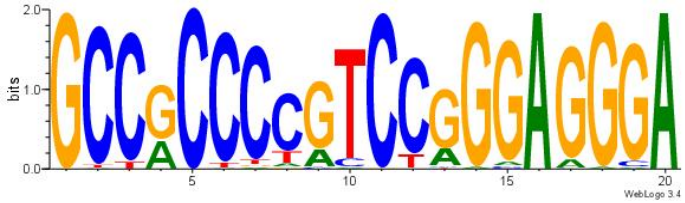

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14

Similarity score: 0.119203

Alignment:
GAAAGGGAACTCCCTGACCC
------CTCCTGCCTCAGCY

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

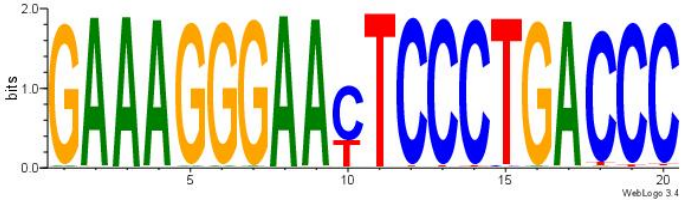

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

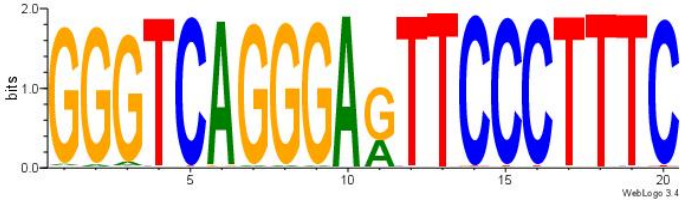

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.119985

Alignment:
MTCCTCCAGACCCCAGAATG
---CTCCTGCCTCAGCY---

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

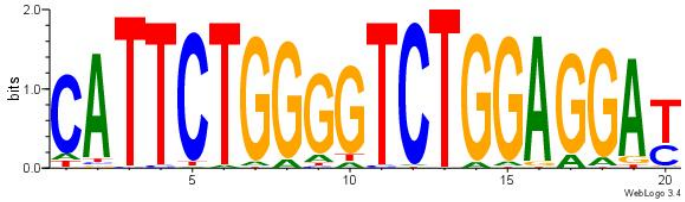

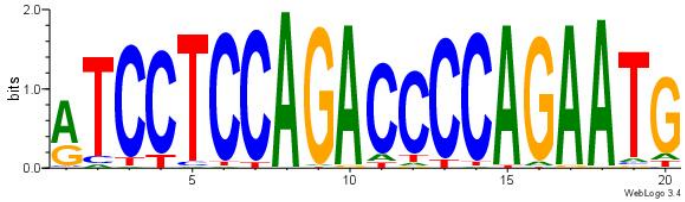

Dataset #: 1 Motif ID: 314 Motif name: Motif 314

Original motif Consensus sequence: GGAACGCACAT

Reverse complement motif Consensus sequence: ATGTGCGTTCC

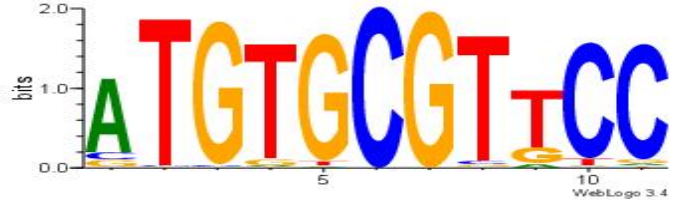

Best Matches for Motif ID 314 (Highest to Lowest)

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0430601

Alignment:

```
ATGTGCWGTCCC
-ATGTGCGTTCC
```

Original motif Consensus sequence: ATGTGCWGTCCC

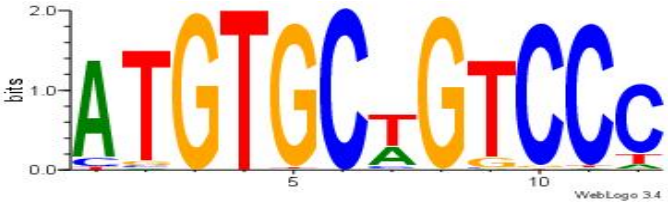

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0705974

Alignment:

```
AGGACTGAGGGTGCCYRGGG
-----ATGTGCGTTCC----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

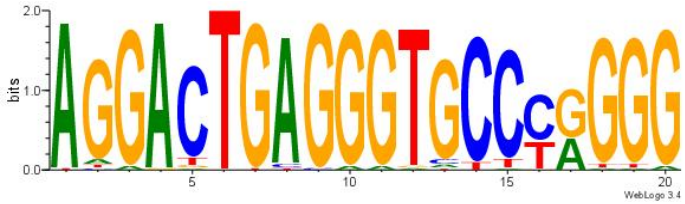

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

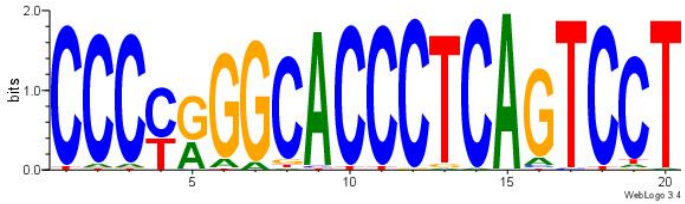

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0731257

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-ATGTGCGTTCC--------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

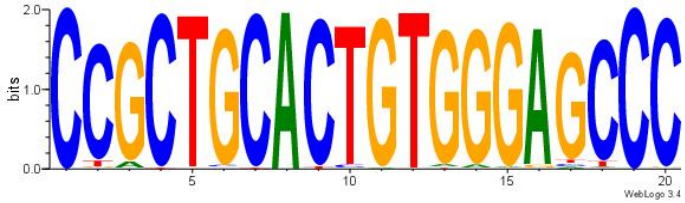

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

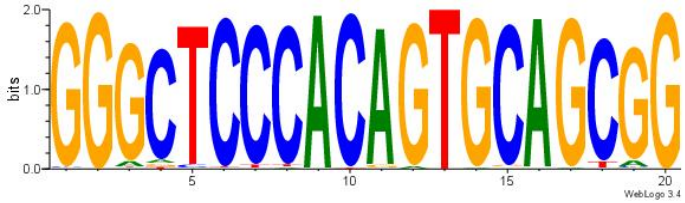

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 11
Similarity score: 0.0769547

Alignment:
TCACKMGGGAAGCGCAAG
-GGAACGCACAT------

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

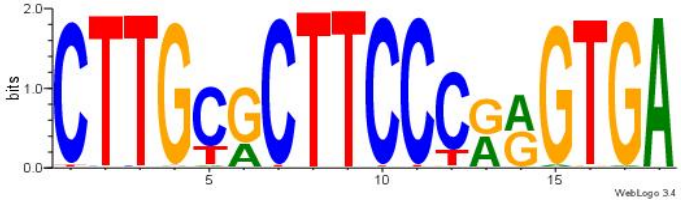

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

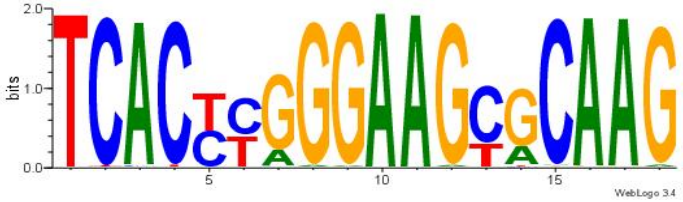

Dataset #: 1
Motif ID: 18
Motif name: Motif 18
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0796102

Alignment:
CCCYAATACTGCGCTTTTC
--------ATGTGCGTTCC

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

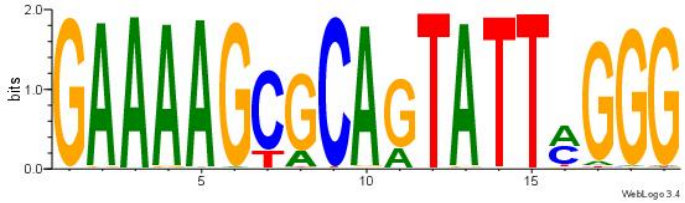

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

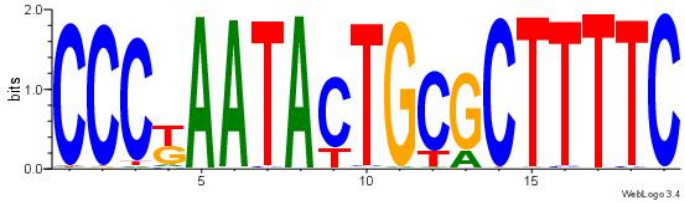

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0797001

Alignment:

```
GACTGGCAGGCAGCTCCACC
----GGAACGCACAT-----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

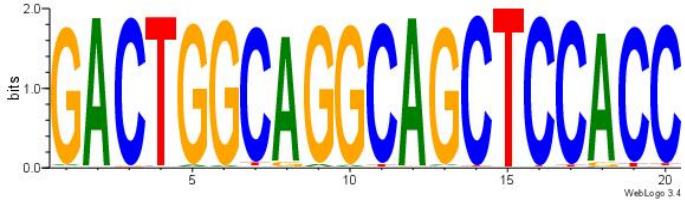

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

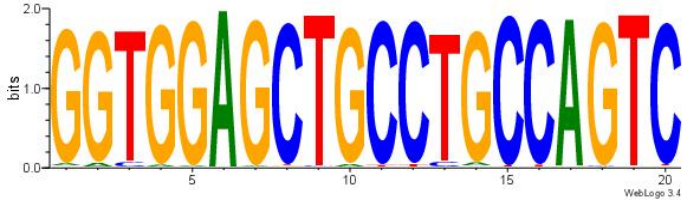

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0798913

Alignment:

```
GCTAATATATCCCTCCC
------ATGTGCGTTCC
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

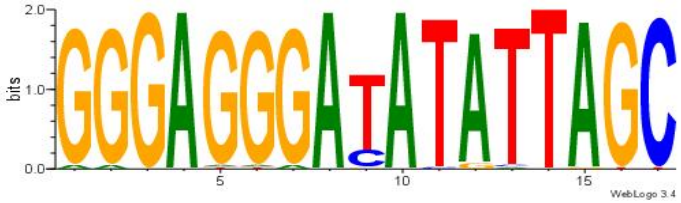

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

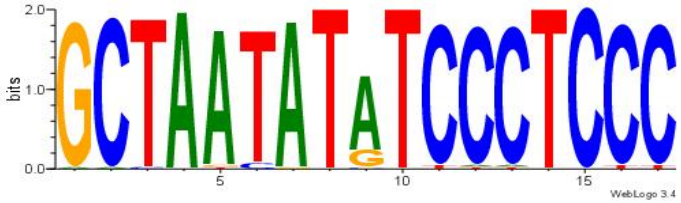

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 11
Similarity score: 0.0805417

Alignment:
GTGTCKGGAGTTTGTTCCTT
-------ATGTGCGTTCC--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

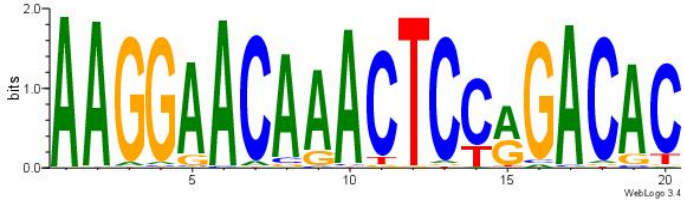

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

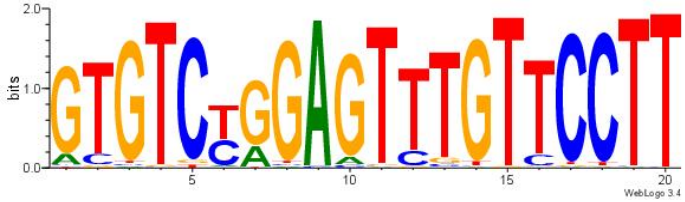

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.081162

Alignment:
GGGAGGTGTCTCCCAGTCAG
---ATGTGCGTTCC------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

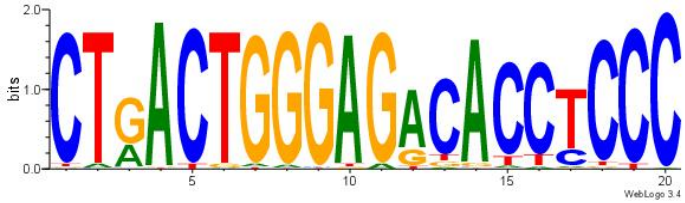

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

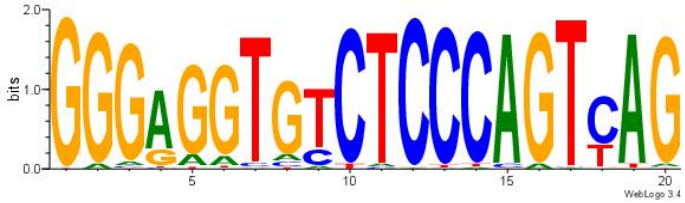

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0817366

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
---------ATGTGCGTTCC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

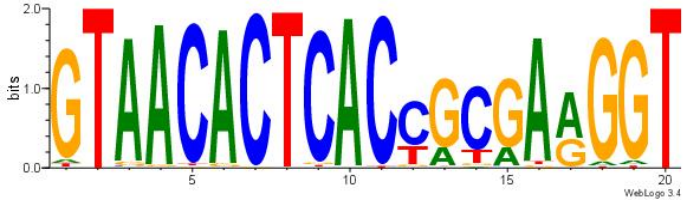

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

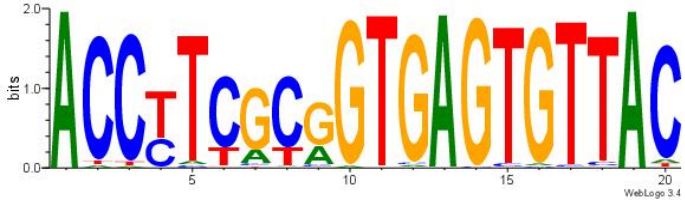

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0820558

Alignment:

```
MGAAGGGACTTGCCTTGT
-------GGAACGCACAT
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

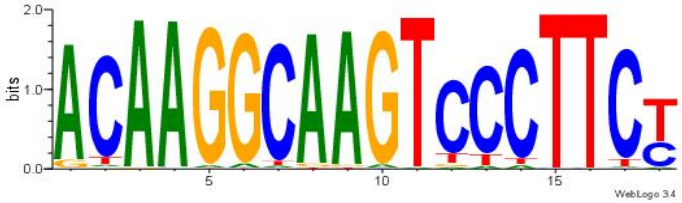

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

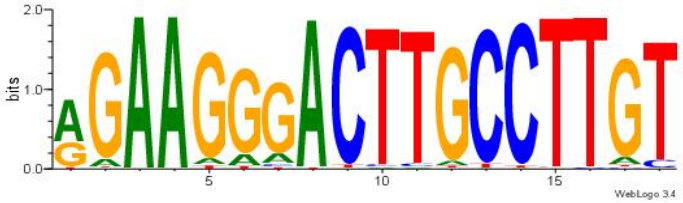

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9

Number of overlap: 11
Similarity score: 0.083154

Alignment:
ATTGGTGTATTTACAATCCC
-ATGTGCGTTCC--------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

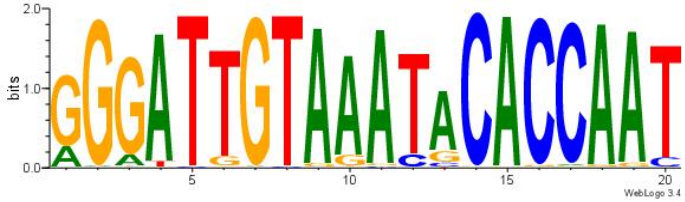

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0842527

Alignment:
AATGAKATCATGTCYTTTGC
---------ATGTGCGTTCC

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

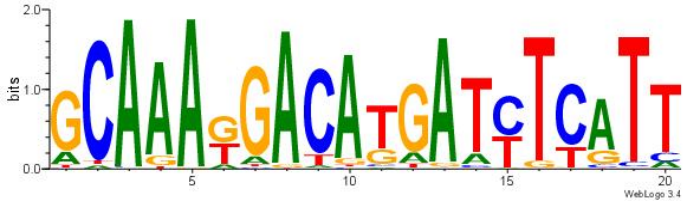

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

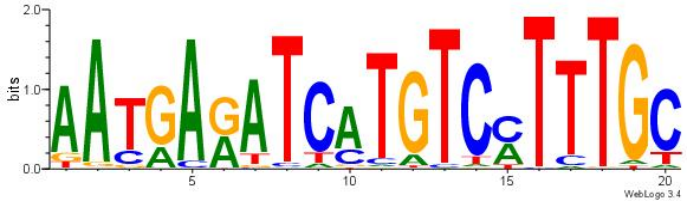

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0847325

Alignment:

```
CATTTGGGAGCCCATTGA
------ATGTGCGTTCC-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

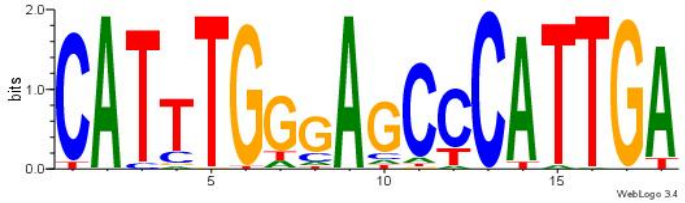

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

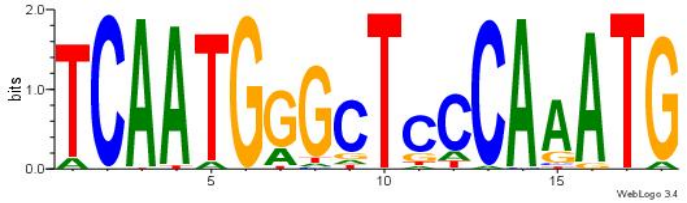

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0849715

Alignment:

```
AGAAAGGCATGTGAAAA
-GGAACGCACAT-----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

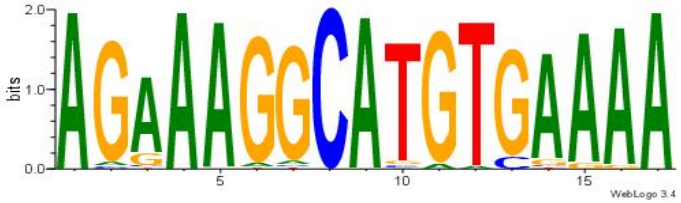

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

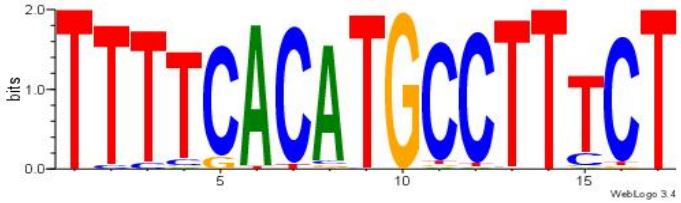

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 11
Similarity score: 0.0854829

Alignment:
CTCAGGAATGGAAAACC
----GGAACGCACAT--

Original motif Consensus sequence: CTCAGGAATGGAAAACC

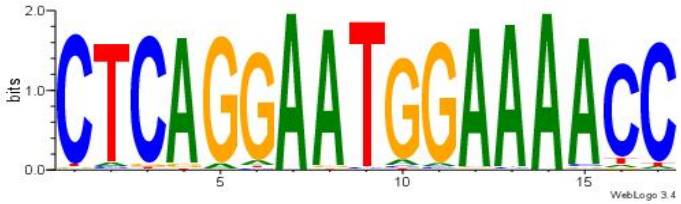

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

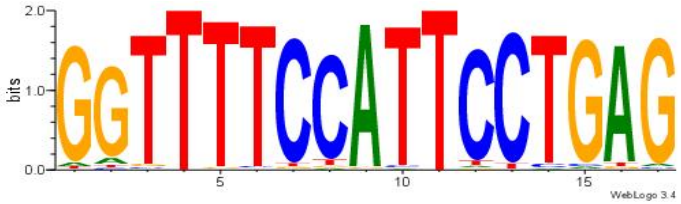

Dataset #: 1
Motif ID: 31
Motif name: Motif 31
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0856472

Alignment:
CGGCTCGCGCACGG
--GGAACGCACAT-

Original motif Consensus sequence: CCGTGCGCGAGCCG

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

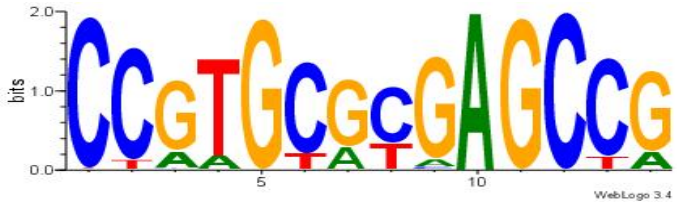

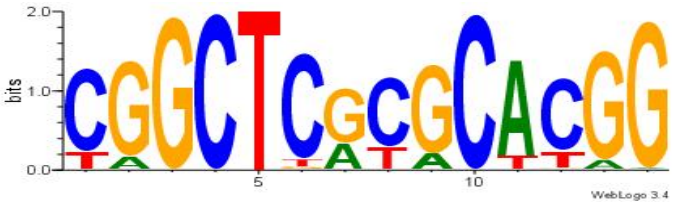

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0880872

Alignment:

```
CCTCCGTGGGCTCC
ATGTGCGTTCC---
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

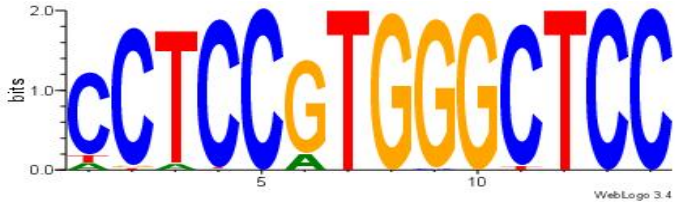

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

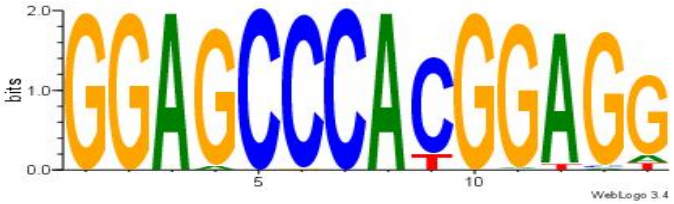

Dataset #:	1
Motif ID:	139

Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.088184

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
--ATGTGCGTTCC-------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

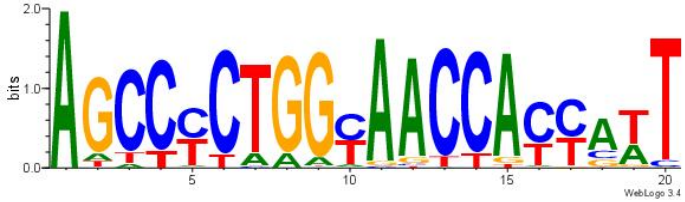

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

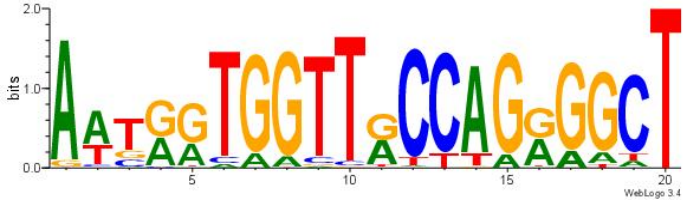

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0885682

Alignment:
TGATGGGTGCACCAAA
---ATGTGCGTTCC--

Original motif Consensus sequence: TGATGGGTGCACCAAA

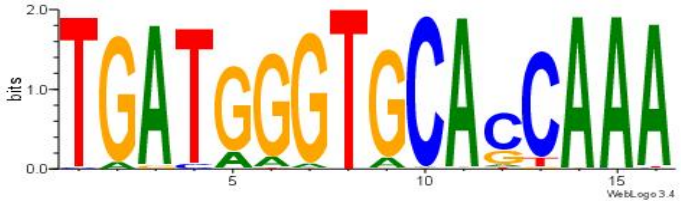

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

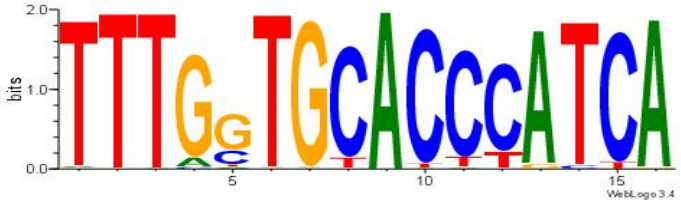

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0894058

Alignment:
AGGTTTGTTACATAGGTAWA
---------ATGTGCGTTCC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

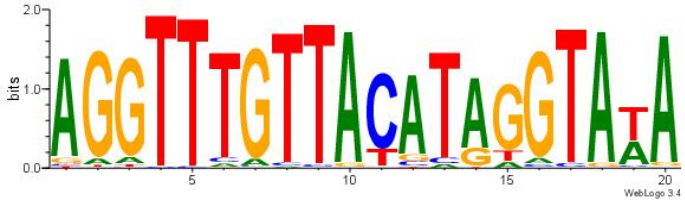

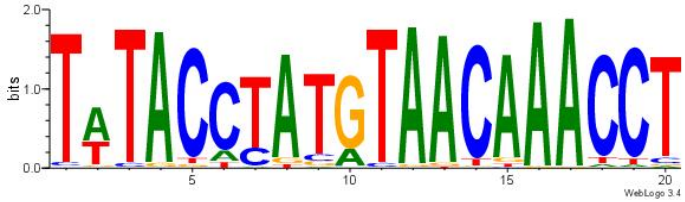

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.089505

Alignment:

```
TGCTGGAGGTCCACTCCAGA
------ATGTGCGTTCC---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

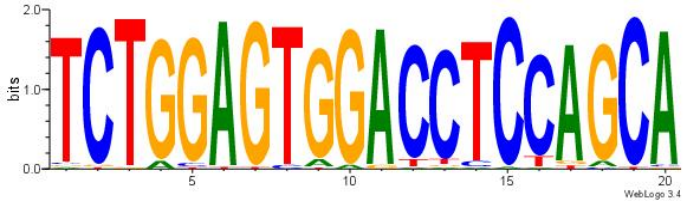

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

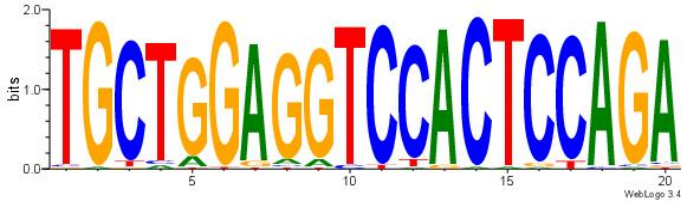

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0902512

Alignment:

```
GAAAGGGAACTCCCTGACCC
-----GGAACGCACAT----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

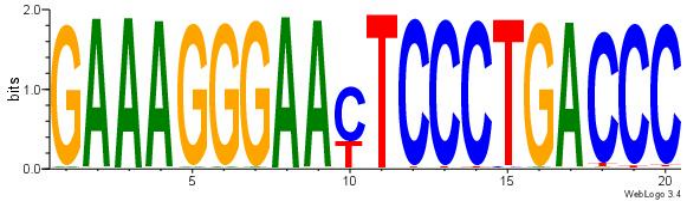

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

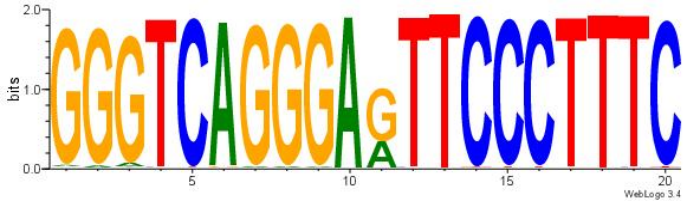

Dataset #:	1
Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0905531

Alignment:
CGGTACCTCAGAT
GGAACGCACAT--

Original motif Consensus sequence: ATCTGAGGTACCG

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

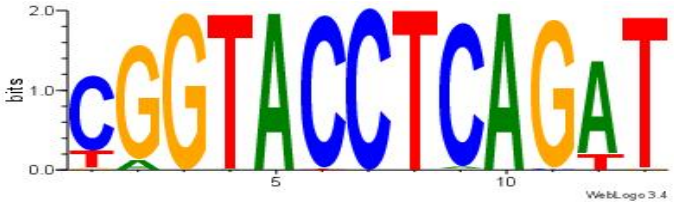

Dataset #: 1
Motif ID: 327
Motif name: Motif 327
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.09079

Alignment:
AGGAGGAAGTCAATTTC
----GGAACGCACAT--

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

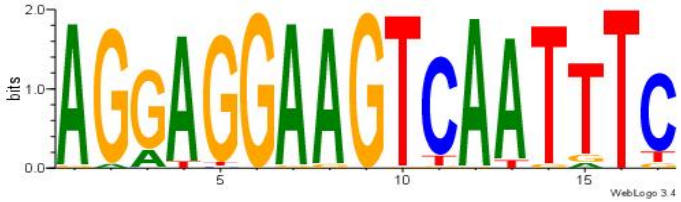

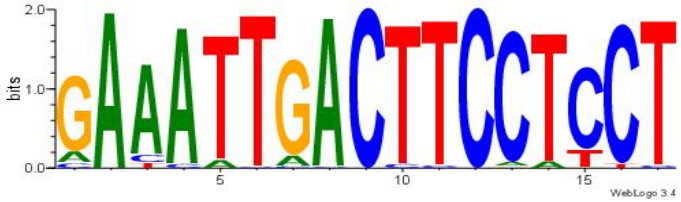

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0911789

Alignment:

```
AGGAGCGCCTCTKCCCGGC
-GGAACGCACAT-------
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

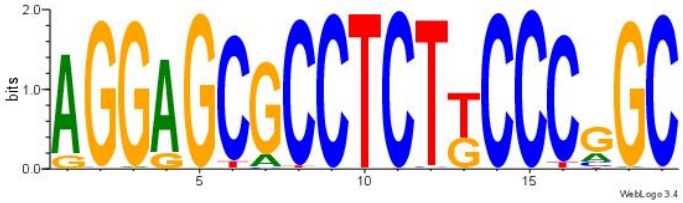

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

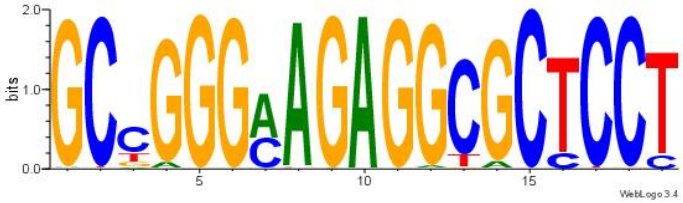

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0921544

Alignment:

```
KGCAACCTAGATCCCT
----GGAACGCACAT-
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

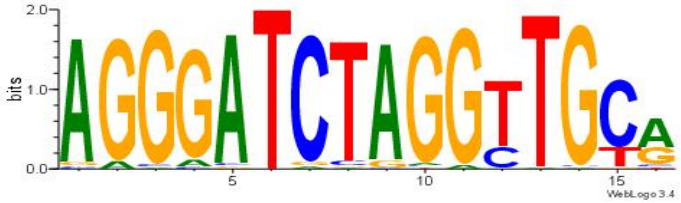

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

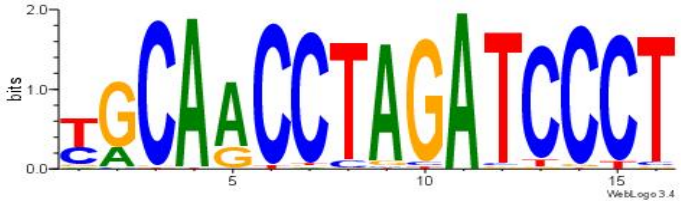

Dataset #:	1
Motif ID:	316
Motif name:	Motif 316
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0931514

Alignment:
ACGTCACTTCCG
ATGTGCGTTCC-

Original motif Consensus sequence: CGGAAGTGACGT

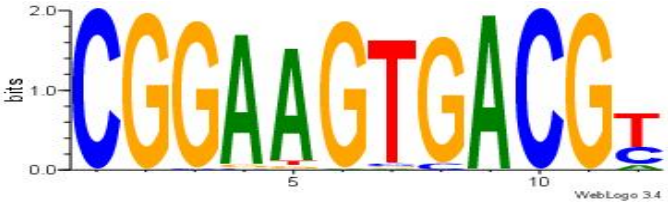

Reverse complement motif Consensus sequence: ACGTCACTTCCG

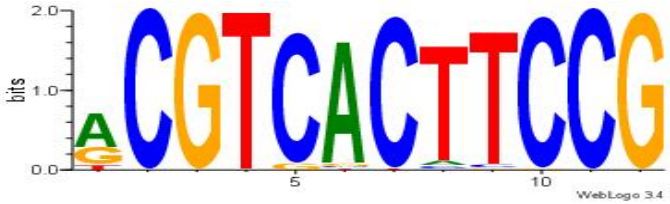

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0942511

Alignment:
GTACCTCAGWTGGAAATG
-------GGAACGCACAT

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

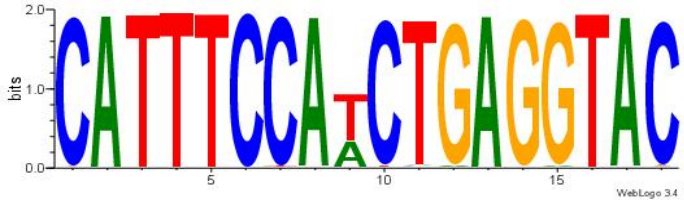

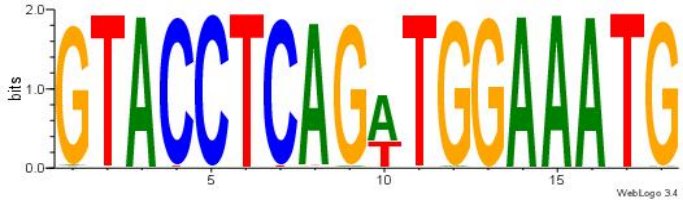

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0942626

Alignment:

```
GGCACTGCTGGGGGACCCAG
-------ATGTGCGTTCC--
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

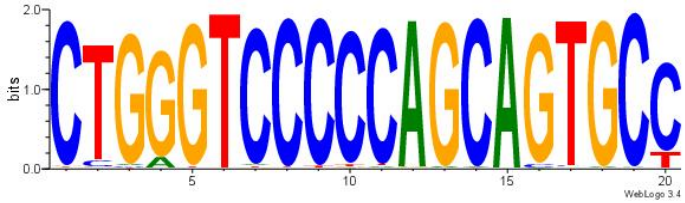

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

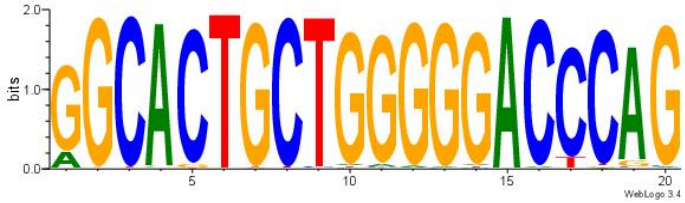

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0944103

Alignment:

```
ATACAATGGGGGTACAGRC
---ATGTGCGTTCC-----
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

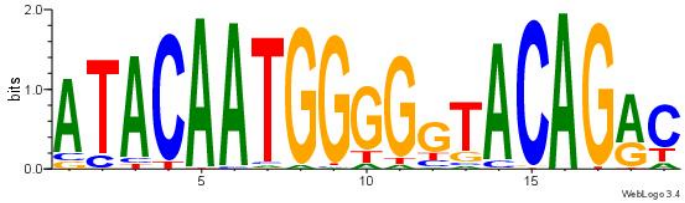

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

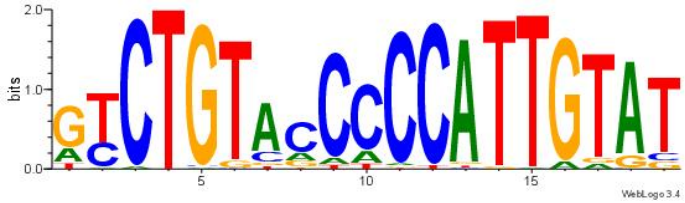

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11

Similarity score: 0.0953933

Alignment:
ACACACAYACACACACACA
-------GGAACGCACAT-

Original motif Consensus sequence: ACACACAYACACACACACA

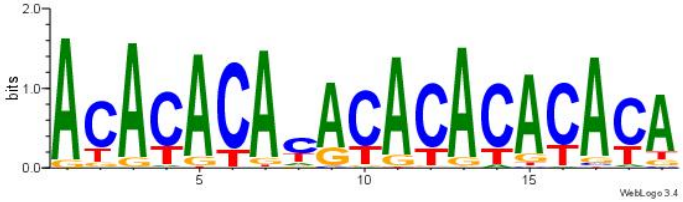

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

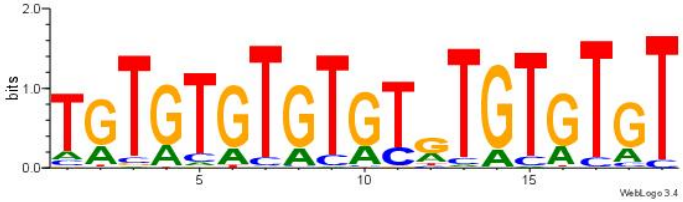

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0957335

Alignment:
CAGCTACTCKTATACCCTTG
-------GGAACGCACAT--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

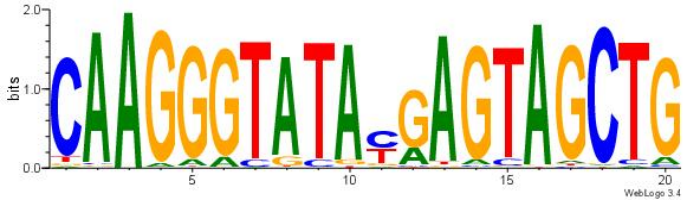

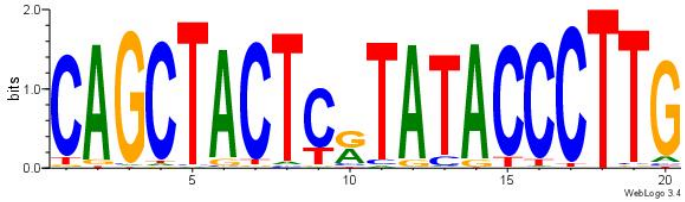

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0958029

Alignment:

```
CCTTGGCCAGCCCAGAAAG
----GGAACGCACAT----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

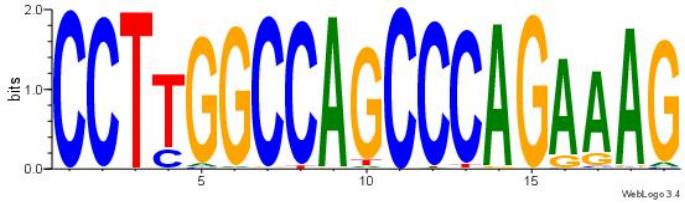

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

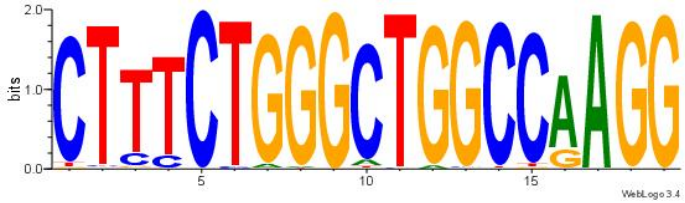

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0959132

Alignment:

```
CTTGCCCAAGGTCACACAGC
-GGAACGCACAT--------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

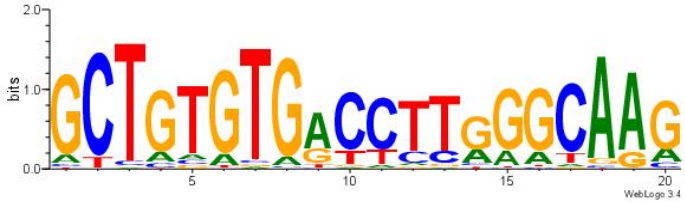

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

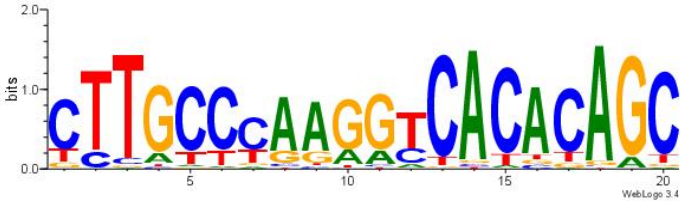

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.0964162

Alignment:
GCCAGTCACAAAARGACAMA
GGAACGCACAT---------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

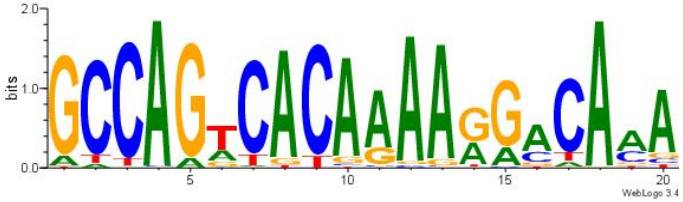

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

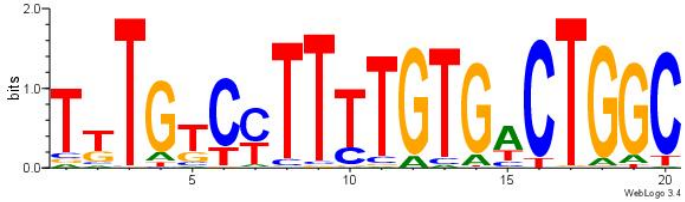

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0965097

Alignment:
ACAGGCTTTGTGTGAGCA
ATGTGCGTTCC-------

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence:
TGCTCACACAAAGCCTGT

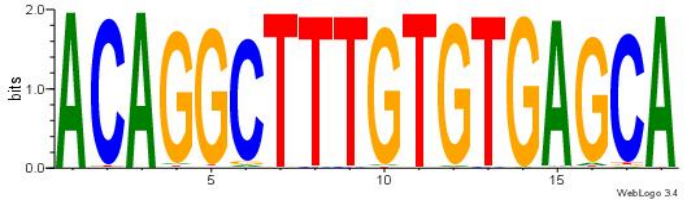

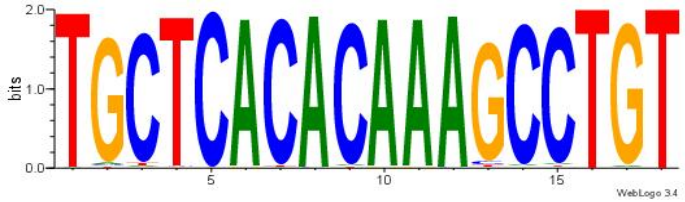

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0974002

Alignment:

```
AAAATGTGGTAYATAYAYAC
-------GGAACGCACAT--
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

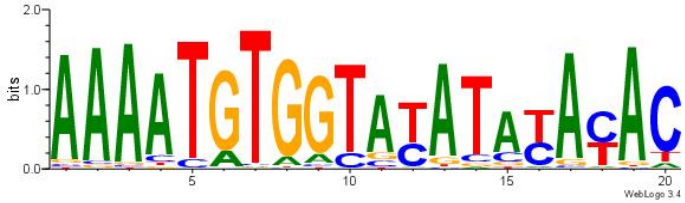

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

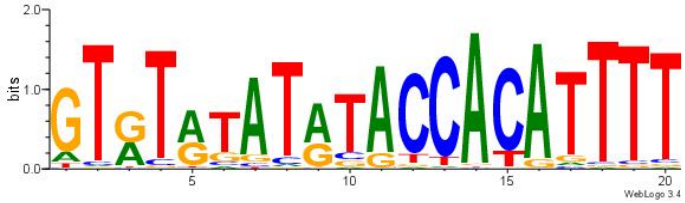

Dataset #: 1

Motif ID:	143
Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0976014

Alignment:

```
CTGCGTCGCTCAC
--GGAACGCACAT
```

Original motif Consensus sequence: CTGCGTCGCTCAC

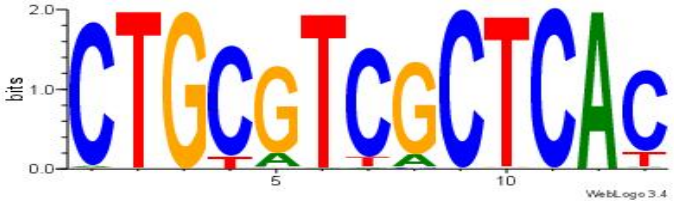

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

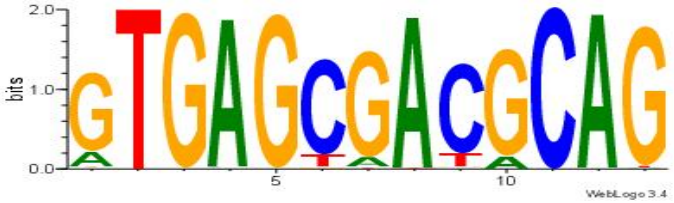

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0978012

Alignment:
AGTTCCGGGTGGGCGTGGG
ATGTGCGTTCC--------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

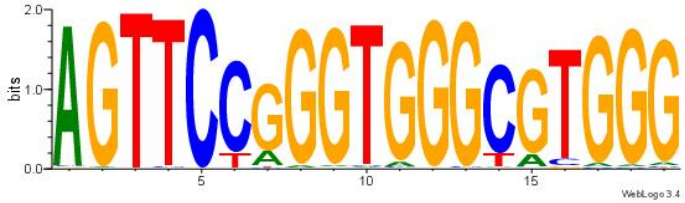

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

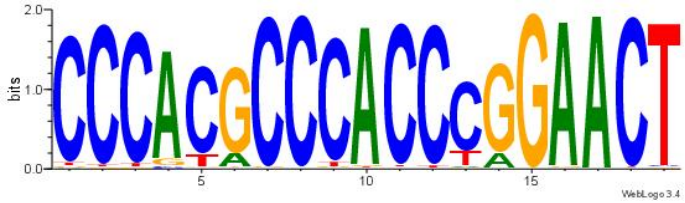

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0978384

Alignment:
GGGAGGAAGGGGACAC
-----GGAACGCACAT

Original motif Consensus sequence: GGGAGGAAGGGGACAC

Reverse complement motif Consensus sequence:
GTGTCCCCTTCCTCCC

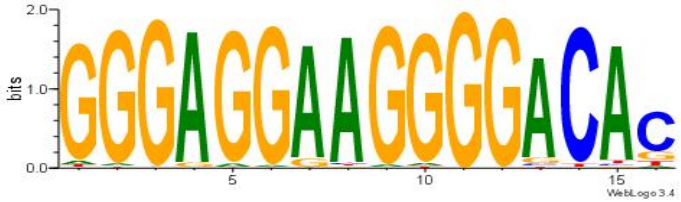

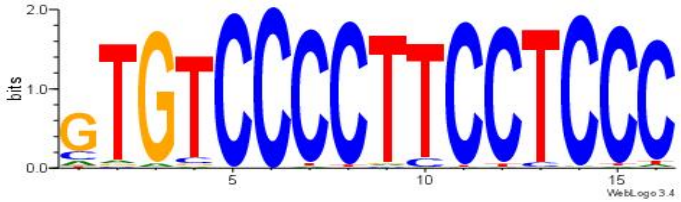

Dataset #:	1
Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0979065

Alignment:

```
GCAGAGGCGCTCCT
-ATGTGCGTTCC--
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

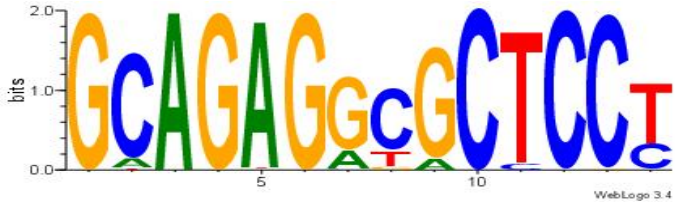

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

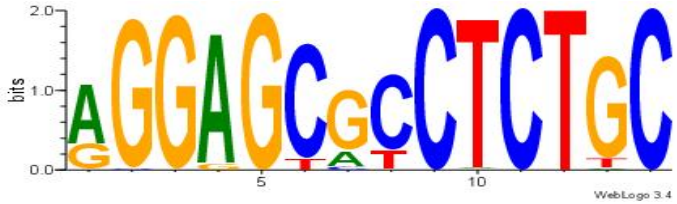

Dataset #:	1
Motif ID:	209

Motif name:	Motif 209
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0985852

Alignment:

```
CTGTCAGCCCAT
-GGAACGCACAT
```

Original motif Consensus sequence: CTGTCAGCCCAT

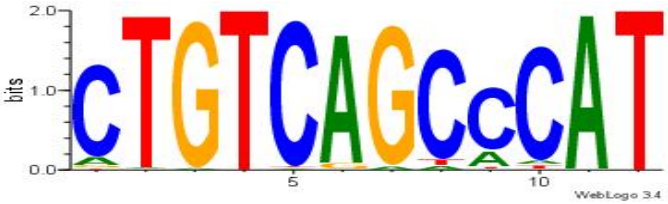

Reverse complement motif Consensus sequence: ATGGGCTGACAG

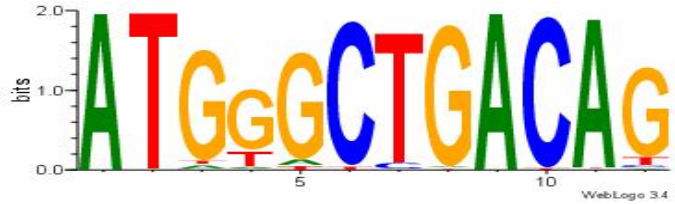

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.098617

Alignment:
ATAGGAATGCTTGTGATTTT
------GGAACGCACAT---

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

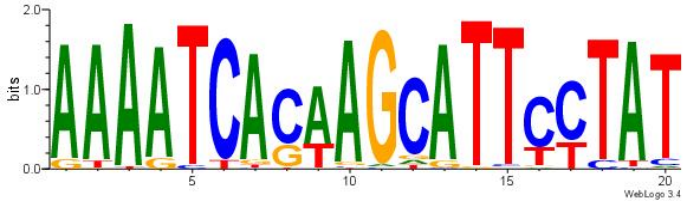

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

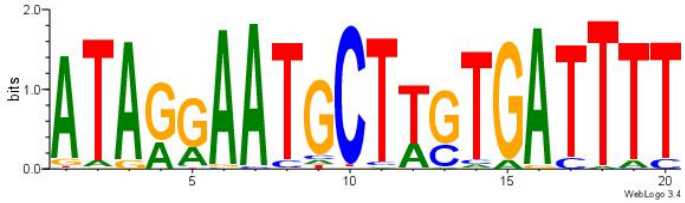

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0988334

Alignment:
AACAACASACACTGGGGCCT
--------GGAACGCACAT-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

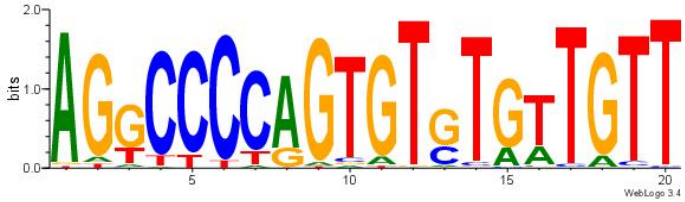

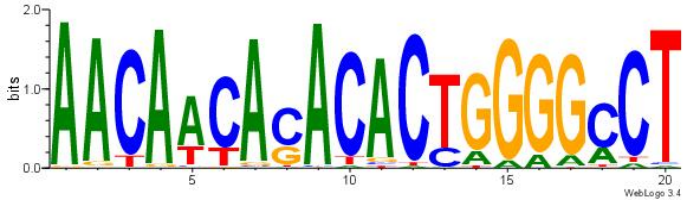

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0995924

Alignment:

```
TTACAGGCTCATA
-GGAACGCACAT-
```

Original motif Consensus sequence: TATGAGCCTGTAA

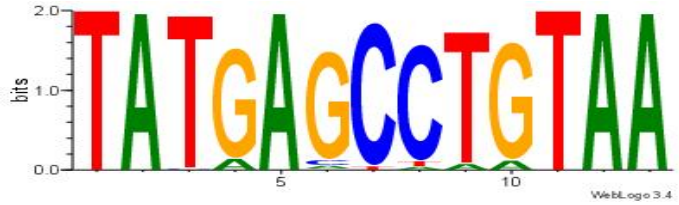

Reverse complement motif Consensus sequence: TTACAGGCTCATA

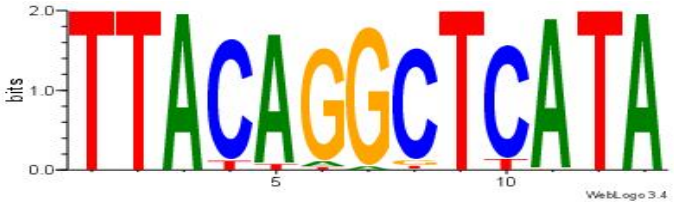

Dataset #:	1
Motif ID:	306

Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.099779

Alignment:

```
GACATGAGCTGGCGCTTG
----ATGTGCGTTCC---
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

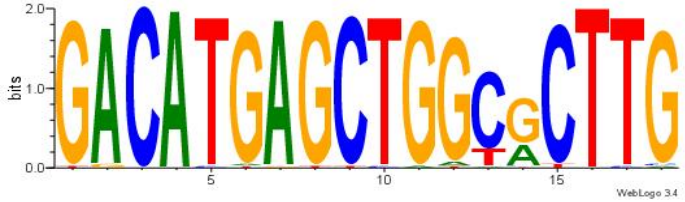

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

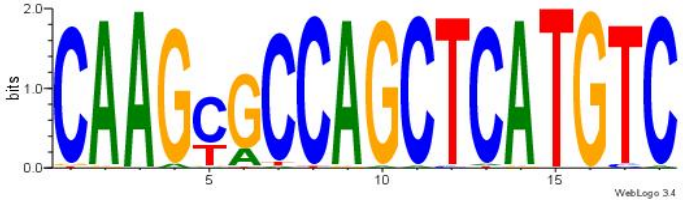

Dataset #:	1
Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0998901

Alignment:
GGGGTGAVCAGAT
--GGAACGCACAT

Original motif Consensus sequence: GGGGTGAVCAGAT

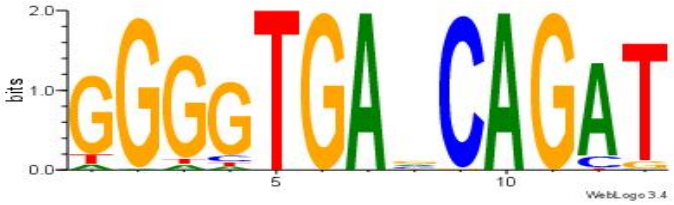

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

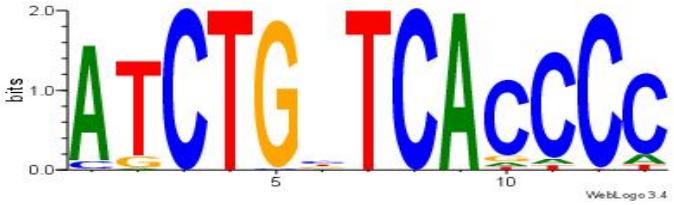

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.100054

Alignment:
GGGGGAGACATCACACR
-----GGAACGCACAT-

Original motif Consensus sequence: GGGGGAGACATCACACR

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

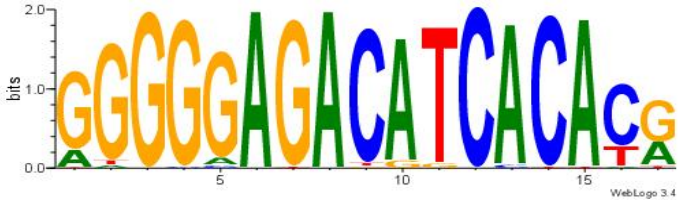

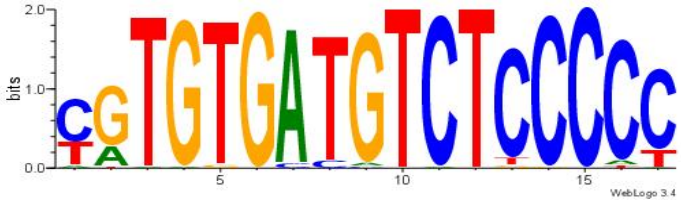

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.100129

Alignment:

```
TAAGTGGGAGCTAARC
----ATGTGCGTTCC-
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

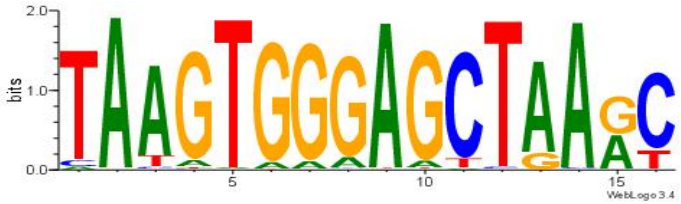

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

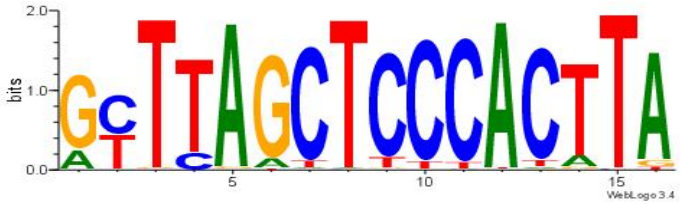

Dataset #: 1 Motif ID: 315 Motif name: Motif 315

Original motif Consensus sequence: CCAAACCATATCA

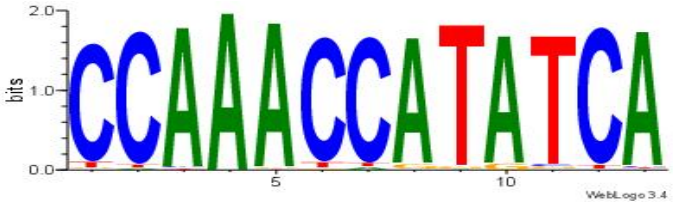

Reverse complement motif Consensus sequence: TGATATGGTTTGG

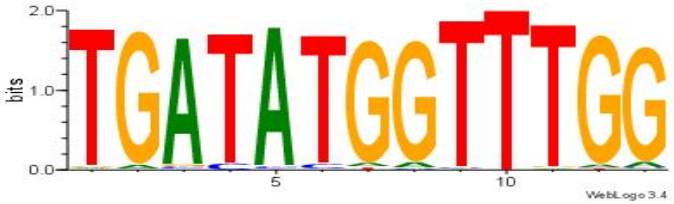

Best Matches for Motif ID 315 (Highest to Lowest)

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0520963

Alignment:

```
TTTTATAGGATTTGGG
--TGATATGGTTTGG-
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

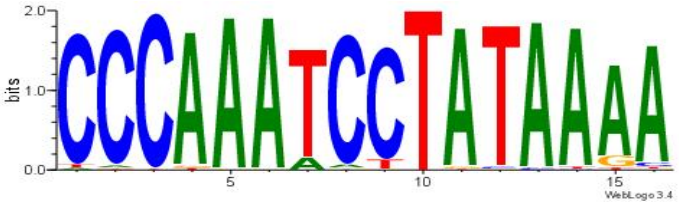

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

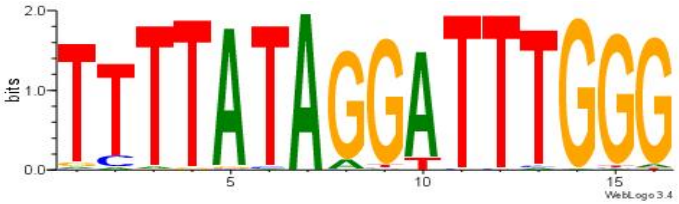

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0822582

Alignment:

```
CCCAAATCTCATSTTGAAT
-CCAAACCATATCA-----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

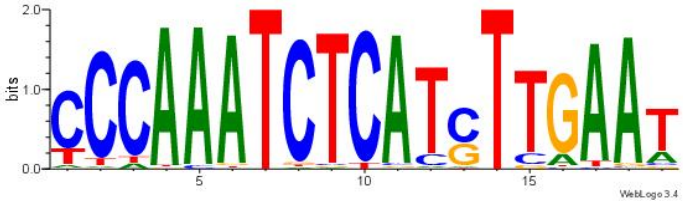

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

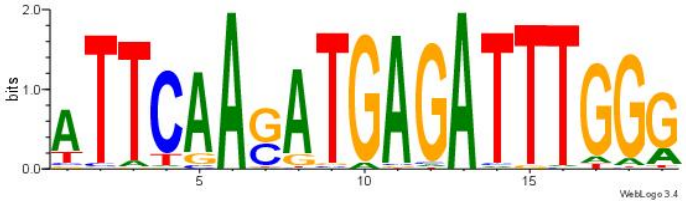

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0861727

Alignment:
GCCTCCTTGAGCTGTGGTGG
-------TGATATGGTTTGG

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

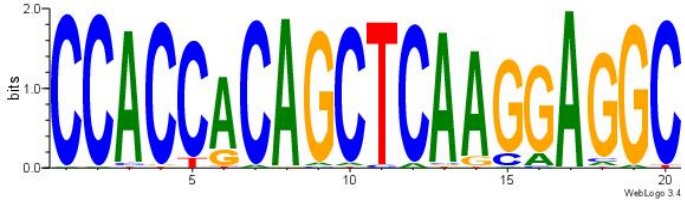

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

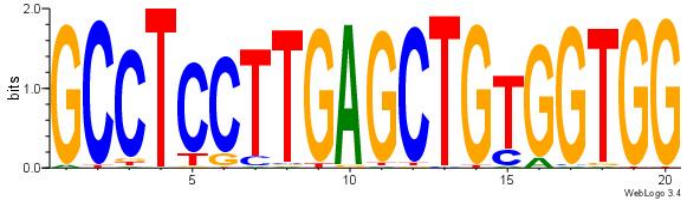

Dataset #: 1
Motif ID: 190
Motif name: Motif 190
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.090194

Alignment:
ATCATTCTTATGCCTTTG
-----TGATATGGTTTGG

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

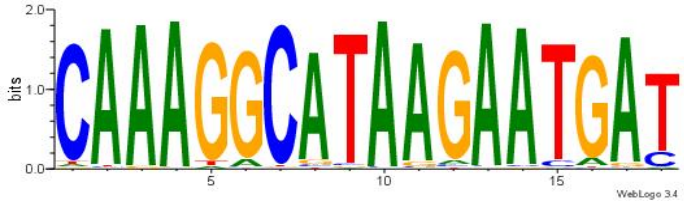

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

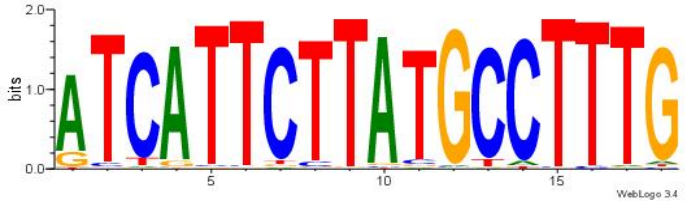

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0922621

Alignment:

```
TAATAAGGGTGTGGG
TGATATGGTTTGG--
```

Original motif Consensus sequence: CCCACACCCTTATTA

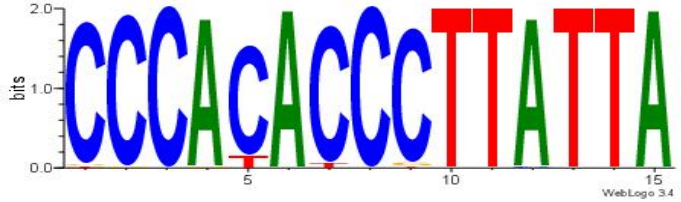

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

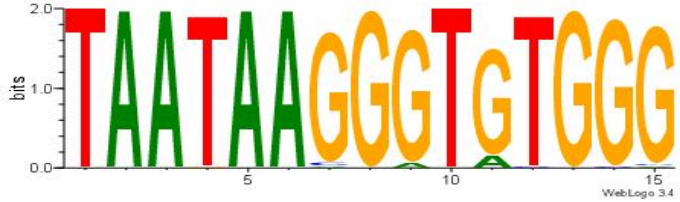

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0928334

Alignment:

```
GCAAAKGACATGATYTCATT
CCAAACCATATCA-------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

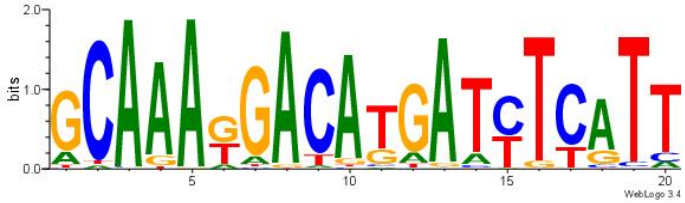

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

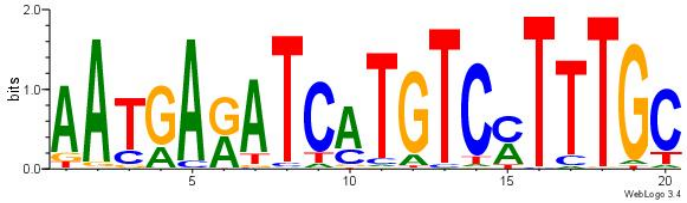

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0934475

Alignment:
CATTCTGGGGTCTGGAGGAY
-----TGATATGGTTTGG--

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

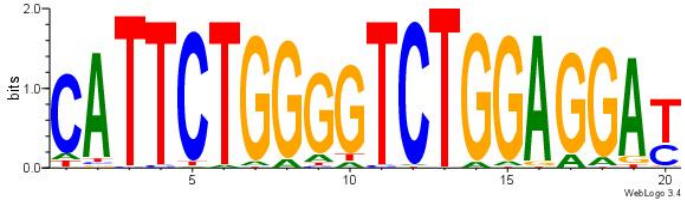

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

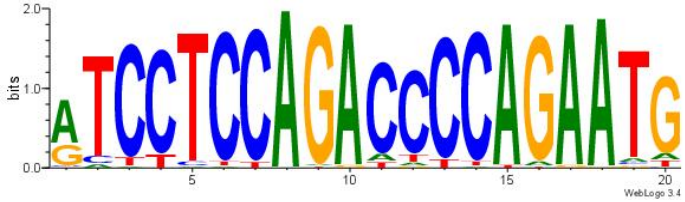

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.09493

Alignment:
AGAGCCAAATCATGARTGAA
----CCAAACCATATCA---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

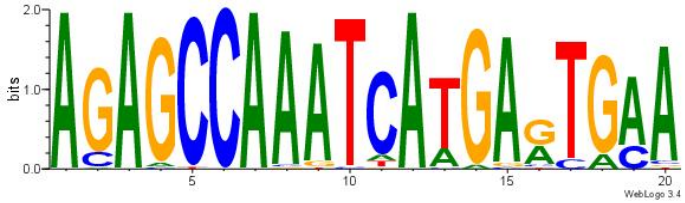

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

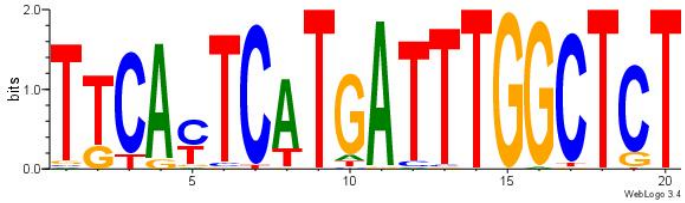

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0950545

Alignment:

```
KGCAACCTAGATCCCT
--CCAAACCATATCA-
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

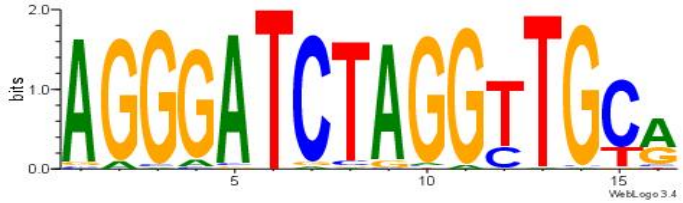

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

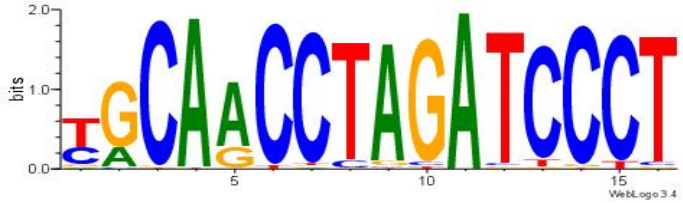

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0984174

Alignment:

```
ATGTAACCAAAYACCACCTG
------CCAAACCATATCA-
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

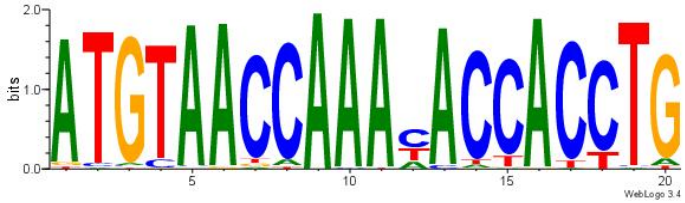

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

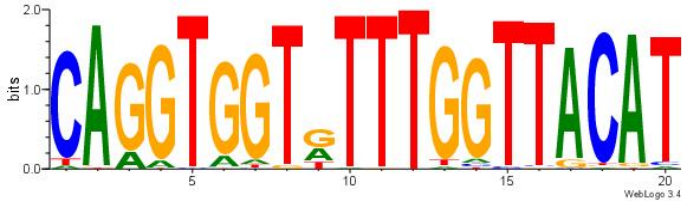

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 13
Similarity score: 0.0991995

Alignment:
CACCAGGAGATTATATCCCR
-----CCAAACCATATCA--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

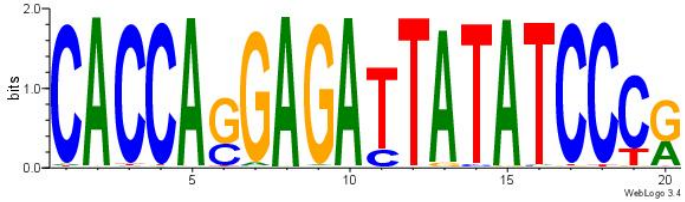

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

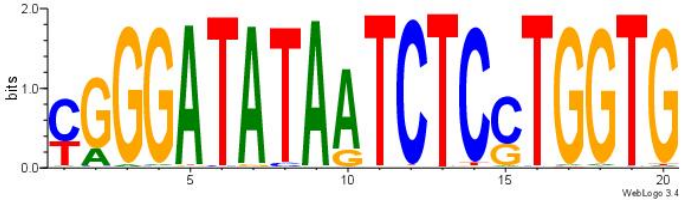

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.100448

Alignment:
GGATTTMKGACTTGCATGGG
-------TGATATGGTTTGG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

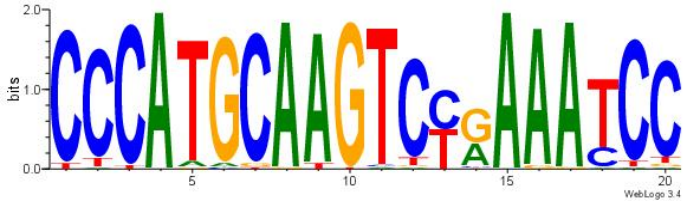

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

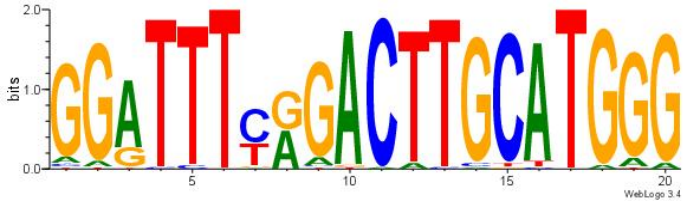

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.104155

Alignment:

```
CTCCTGACCTCGTGATC
--CCAAACCATATCA--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

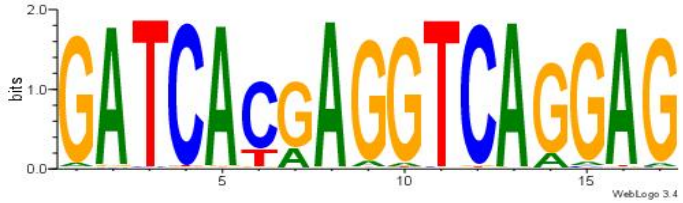

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

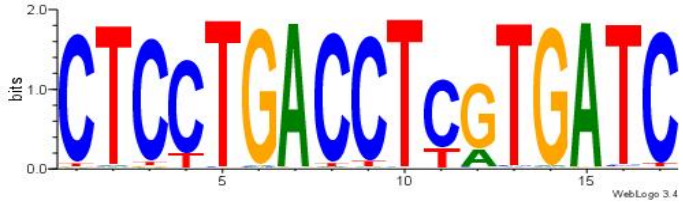

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.104878

Alignment:

```
ATGATCCAGCAATYCCACTH
----CCAAACCATATCA---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

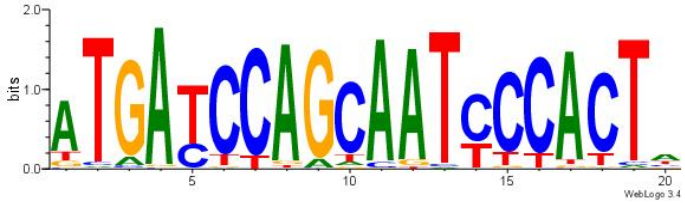

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

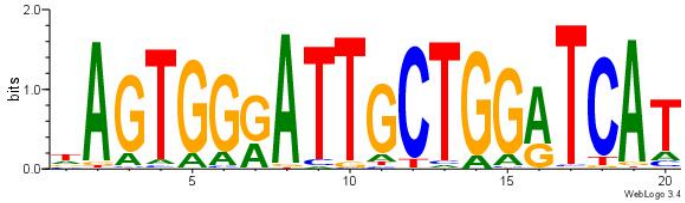

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.106157

Alignment:
ACCTGGAAAATCGGGTCACT
-----CCAAACCATATCA--

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

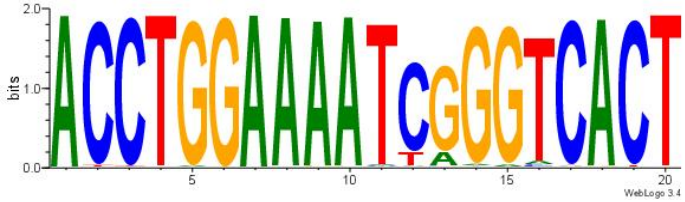

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

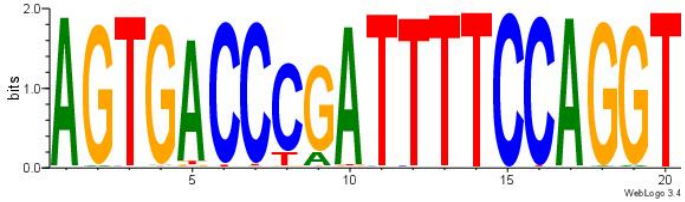

Dataset #: 1
Motif ID: 222
Motif name: Motif 222
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.106327

Alignment:
CGAGATCACGCCA
CCAAACCATATCA

Original motif Consensus sequence: CGAGATCACGCCA

Reverse complement motif Consensus sequence: TGGCGTGATCTCG

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.107015

Alignment:

```
TTTTCACATGCCTTTCT
---TGATATGGTTTGG-
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

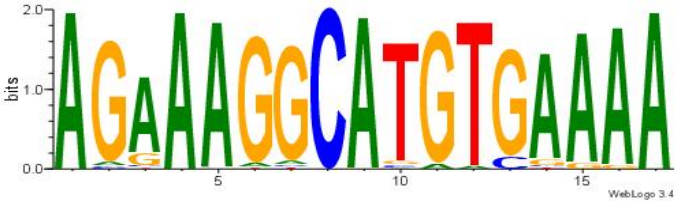

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

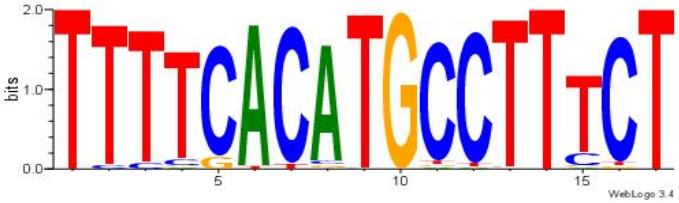

Dataset #:	1

Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.107158

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-----TGATATGGTTTGG--
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

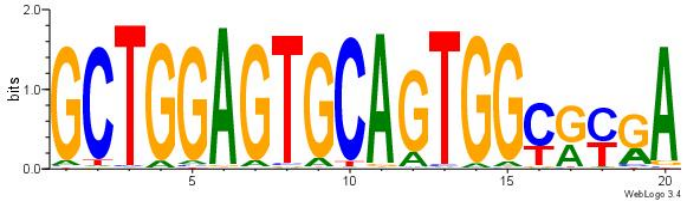

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

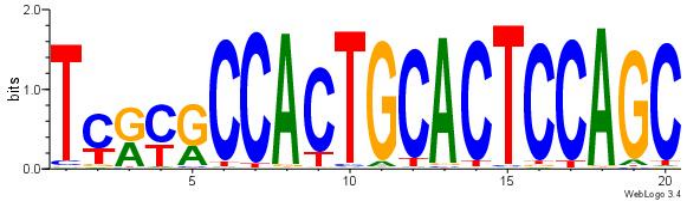

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.107648

Alignment:
TCCAAATGGGAGAAATTGGC
-CCAAACCATATCA------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

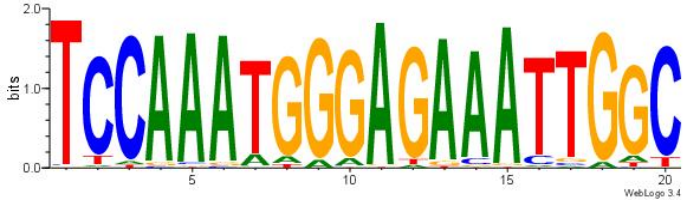

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

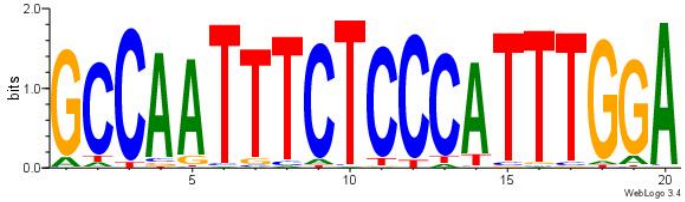

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.108119

Alignment:
GCCCTCACCAGAAGC
--CCAAACCATATCA

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

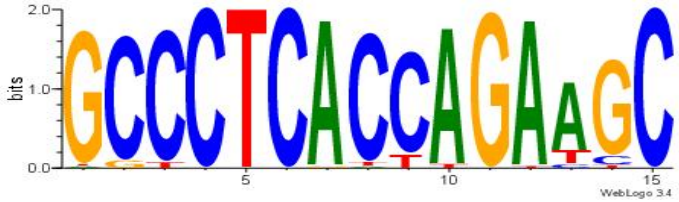

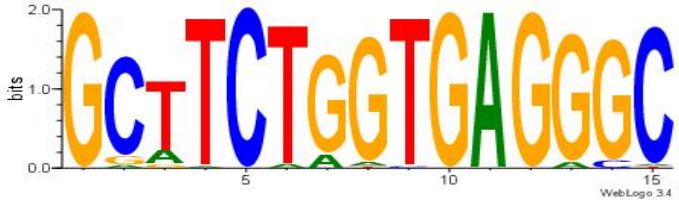

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.108517

Alignment:

```
AGAGCTCTGGCTGGCATCT
--TGATATGGTTTGG----
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

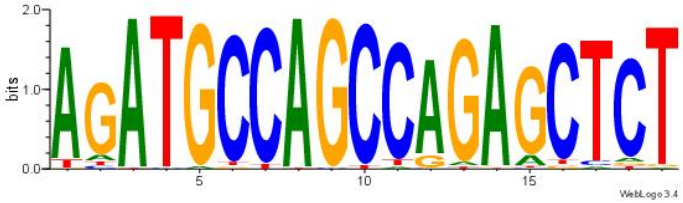

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

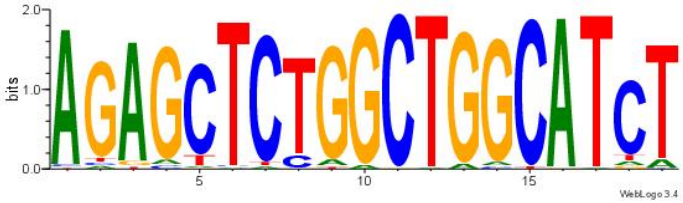

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.108652

Alignment:

```
AACAACAACAACAAMAA
CCAAACCATATCA----
```

Original motif Consensus sequence: AACAACAACAACAAMAA

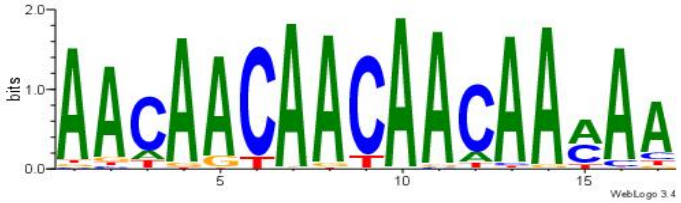

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

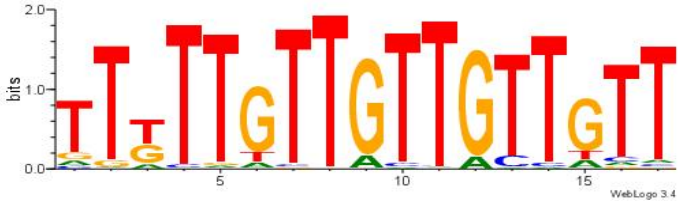

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.10887

Alignment:
MGAAGGGACTTGCCTTGT
-----TGATATGGTTTGG

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

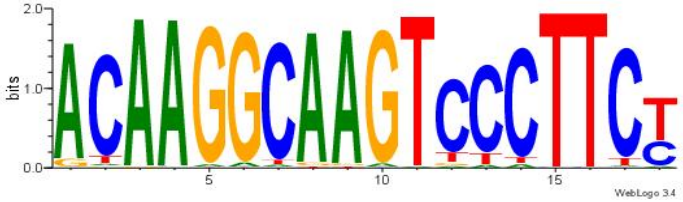

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

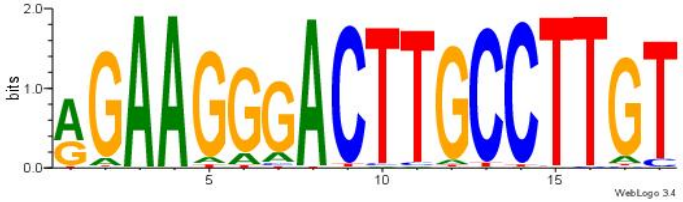

Dataset #: 1
Motif ID: 278
Motif name: Motif 278
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.109085

Alignment:
ACTTTCAGGCATAACA
---CCAAACCATATCA

Original motif Consensus sequence: ACTTTCAGGCATAACA

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

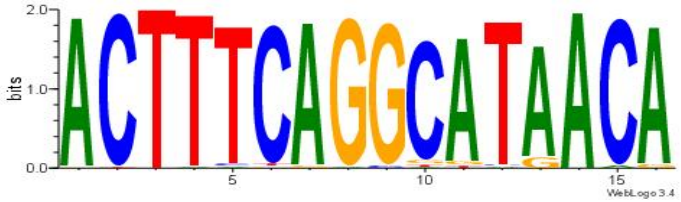

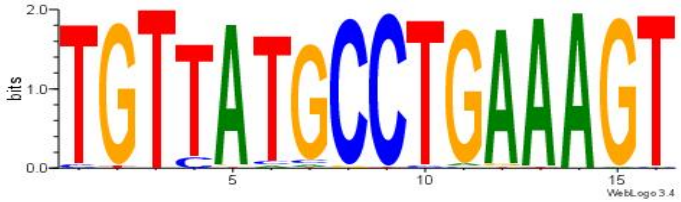

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.109551

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
------CCAAACCATATCA-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

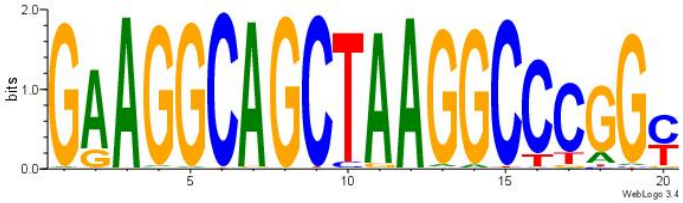

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

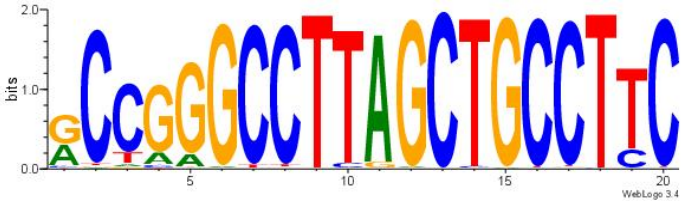

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.109659

Alignment:

```
ACACATCACAAAGCAGTTTC
-------CCAAACCATATCA
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

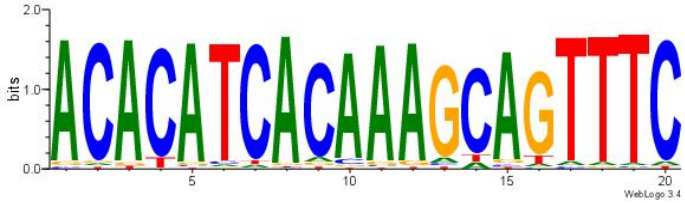

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

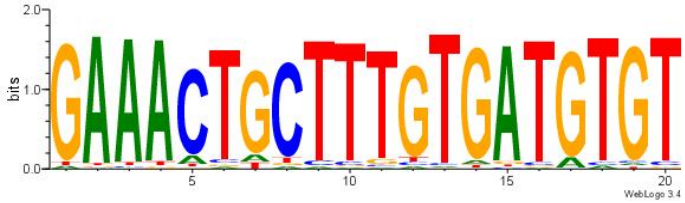

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.109879

Alignment:
TAATTTTATGTGTCAACTTG
TGATATGGTTTGG-------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

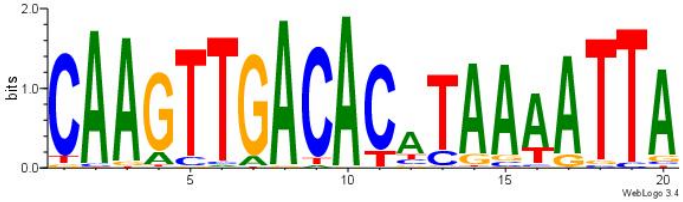

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

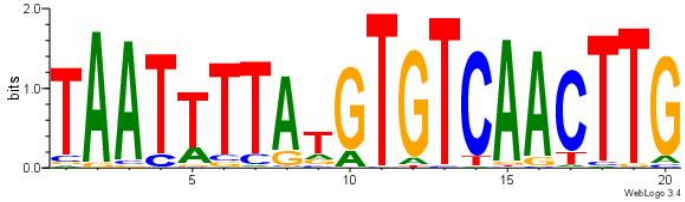

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.109979

Alignment:
CGCCCATCGTCTGGGATGT
-TGATATGGTTTGG-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

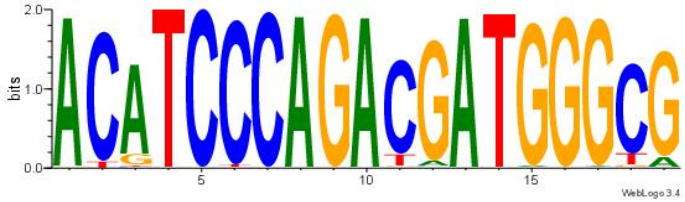

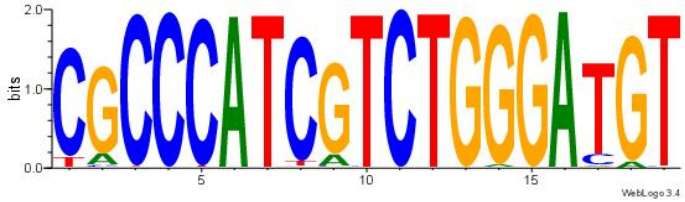

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.110344

Alignment:

```
AATGAGTTAAGACTTTG
TGATATGGTTTGG----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

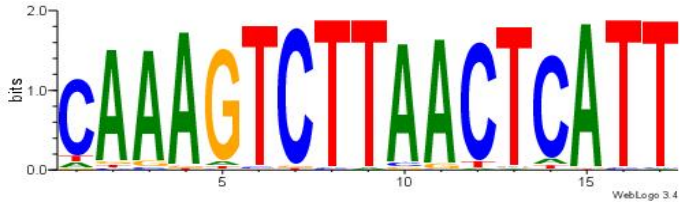

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.110369

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
---CCAAACCATATCA----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

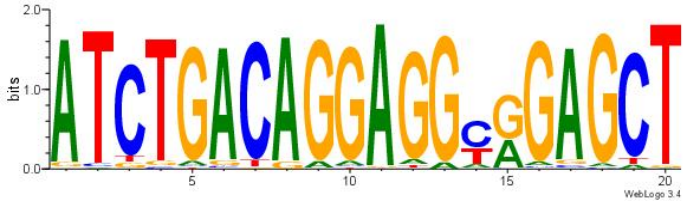

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

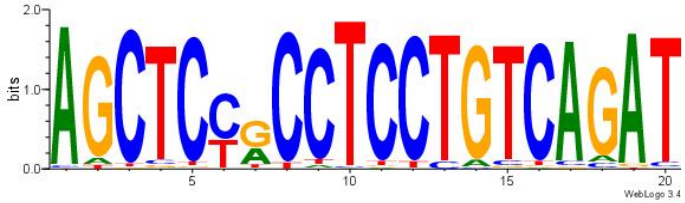

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.1105

Alignment:
CTTTCTGGGCTGGCCAAGG
TGATATGGTTTGG------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

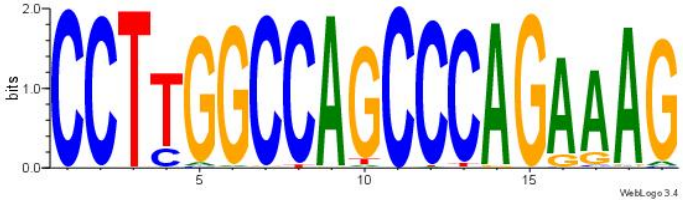

Reverse complement motif Consensus sequence:
CTTTCTGGGCTGGCCAAGG

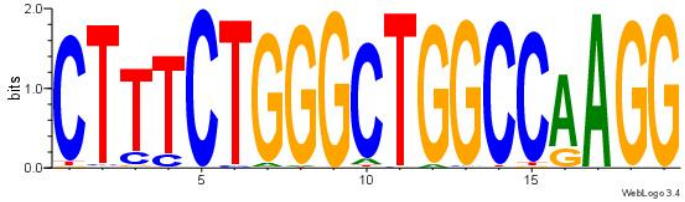

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.111175

Alignment:
AGTTGTAATTGGGAGACTT
------TGATATGGTTTGG

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

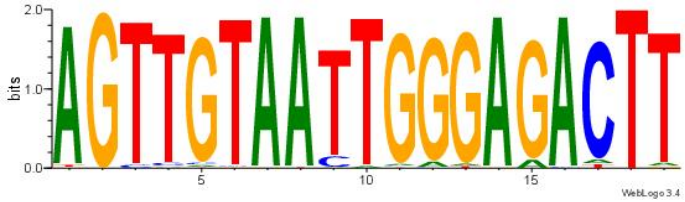

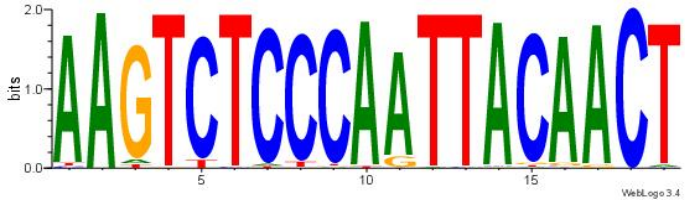

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.111177

Alignment:

```
GGTTCATCTCACTAGGGAGT
----TGATATGGTTTGG---
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

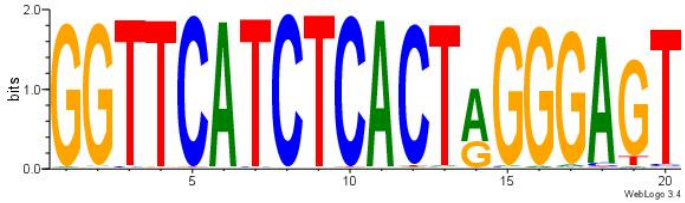

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

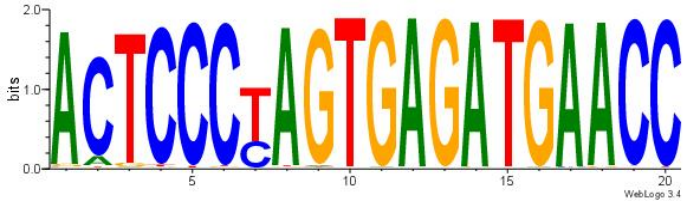

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.111293

Alignment:

```
GGCATCACGGATCCTACCAA
------CCAAACCATATCA-
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

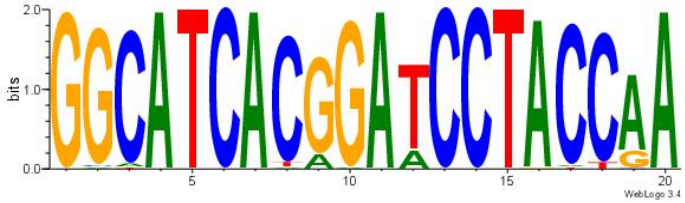

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

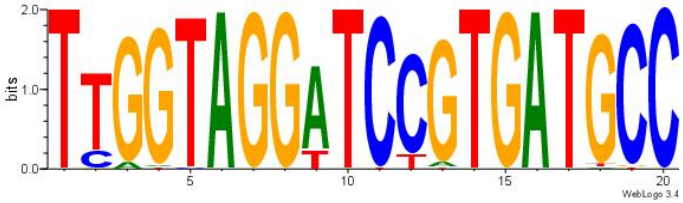

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.111401

Alignment:
AGTGAGAACATRYRRTRTTT
-----TGATATGGTTTGG--

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

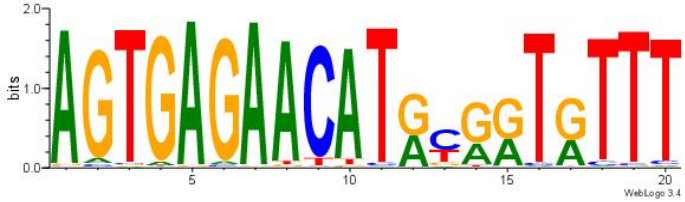

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

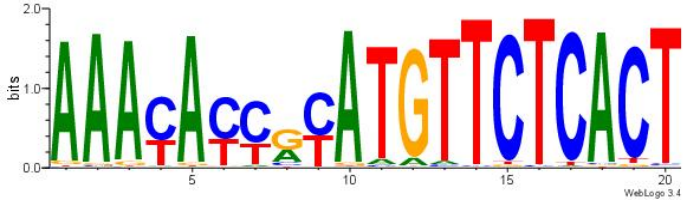

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.112366

Alignment:
CCCACGCCCACCCGGAACT
CCAAACCATATCA------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

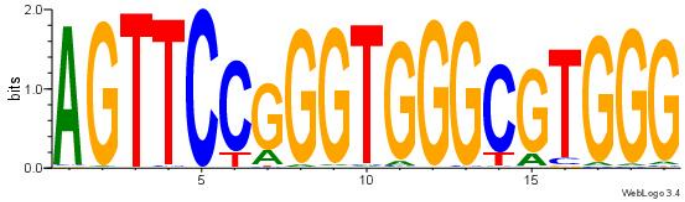

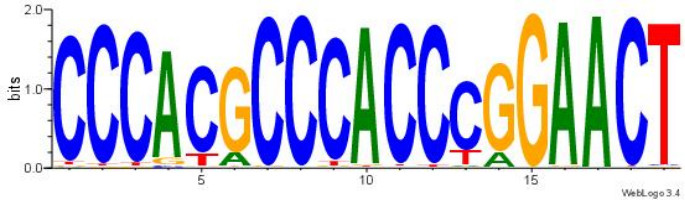

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.112415

Alignment:

```
GAAHCAACCKAAKTGTCCAT
----CCAAACCATATCA---
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

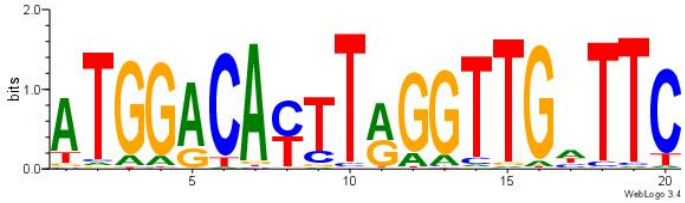

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

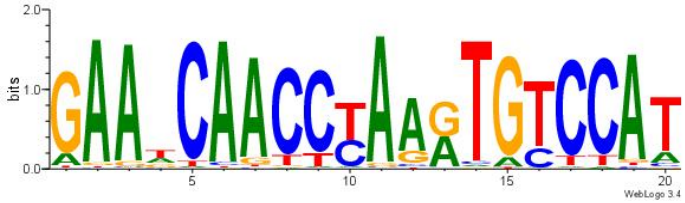

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.113762

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-----TGATATGGTTTGG--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

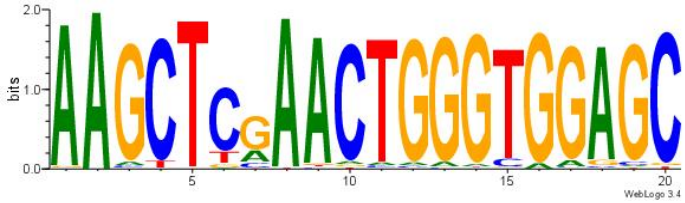

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

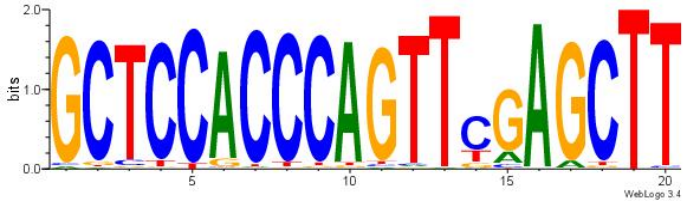

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13

Similarity score: 0.114754

Alignment:
TYTGTCMTTTTGTGACTGGC
--TGATATGGTTTGG-----

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

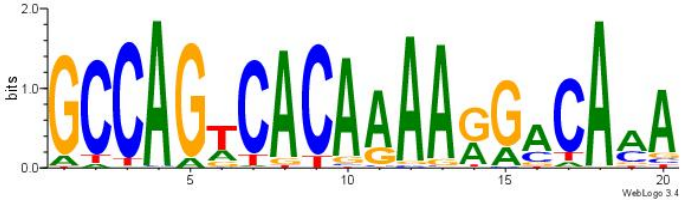

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

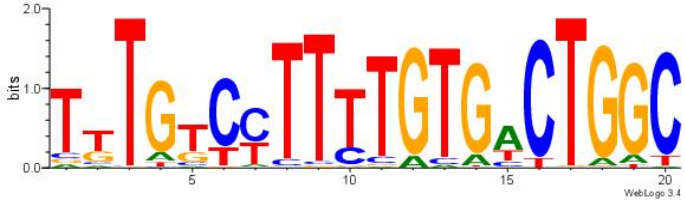

Dataset #: 1
Motif ID: 328
Motif name: Motif 328
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.11528

Alignment:
KACATTGATTTTGTATC
TGATATGGTTTGG----

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence:
KACATTGATTTTGTATC

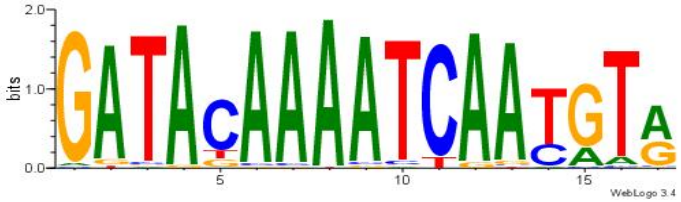

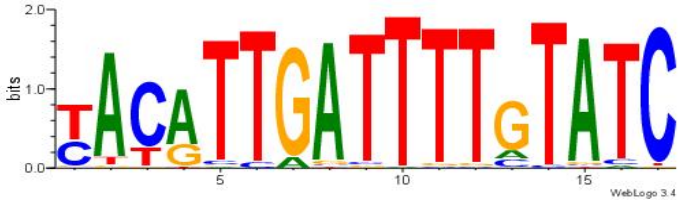

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.115851

Alignment:

```
AAAATCACAAGCATTCCTAT
-----CCAAACCATATCA--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

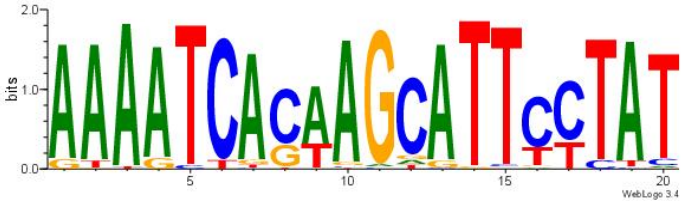

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

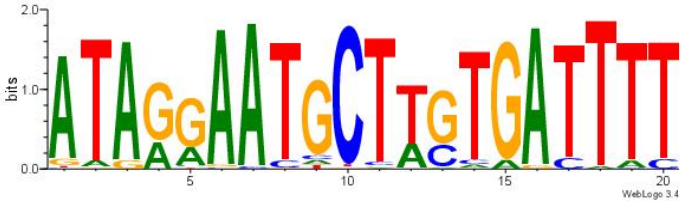

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.116131

Alignment:

```
CTCCAGKTMCATCCATGTTG
CCAAACCATATCA-------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

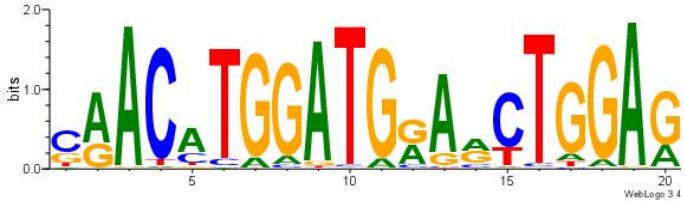

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

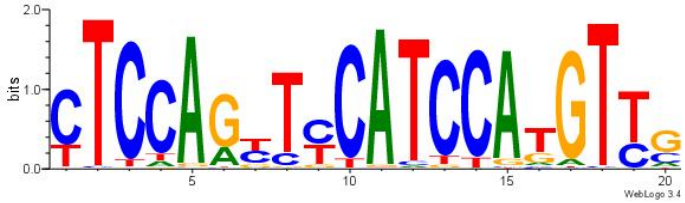

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.116562

Alignment:
ACATGCTACAACAT
CCAAACCATATCA-

Original motif Consensus sequence: ACATGCTACAACAT

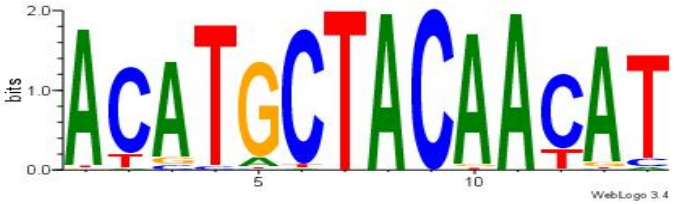

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

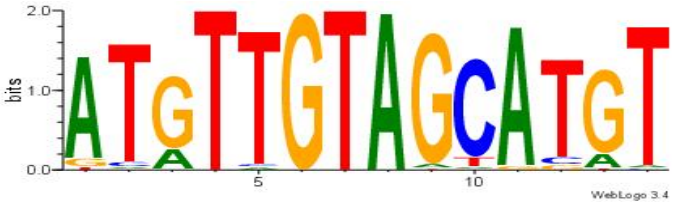

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.116644

Alignment:
GTKTMTATMTACCACATTTT
-CCAAACCATATCA------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

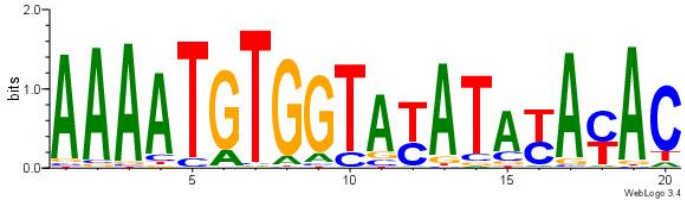

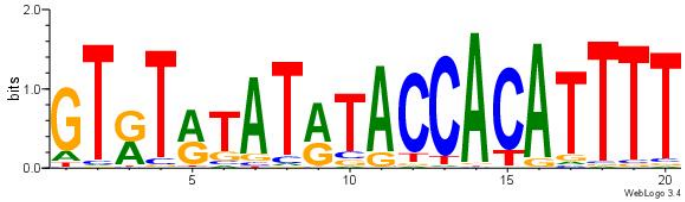

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.117033

Alignment:

```
ATTAGCYRGGCRTGGTGGC
----TGATATGGTTTGG--
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

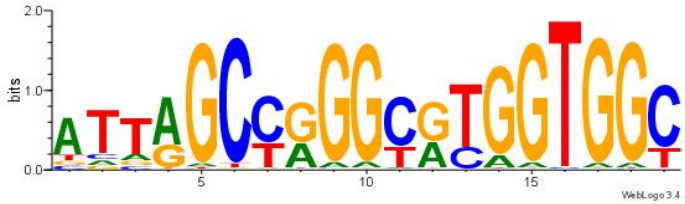

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

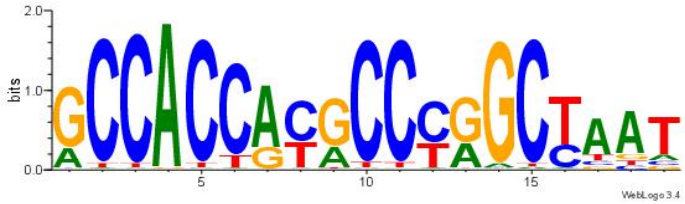

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.117267

Alignment:

```
AATCAACCCTGGYRATCAAT
--CCAAACCATATCA-----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

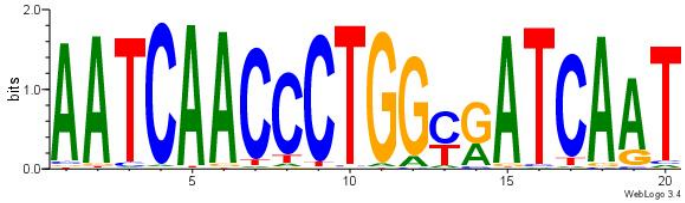

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

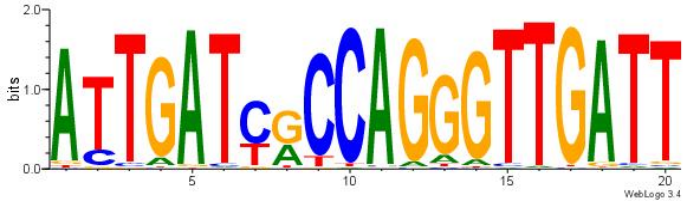

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.118063

Alignment:
GTACCTCAGWTGGAAATG
-----TGATATGGTTTGG

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

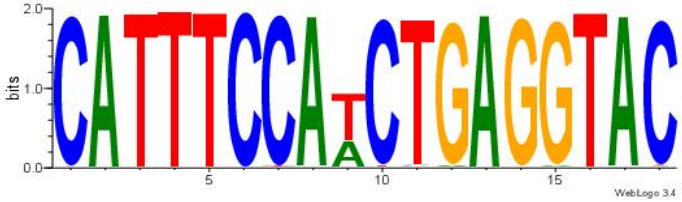

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

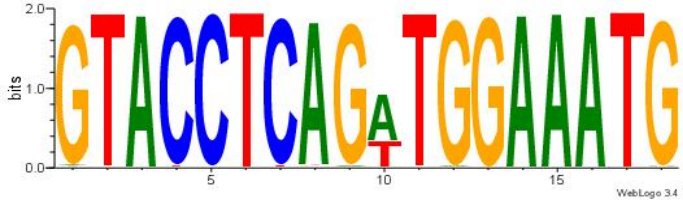

Dataset #: 1
Motif ID: 217
Motif name: Motif 217
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.118136

Alignment:
KGAGAACAGTAGGG
TGATATGGTTTGG-

Original motif Consensus sequence: CCCTACTGTTCTCY

Reverse complement motif Consensus sequence: KGAGAACAGTAGG

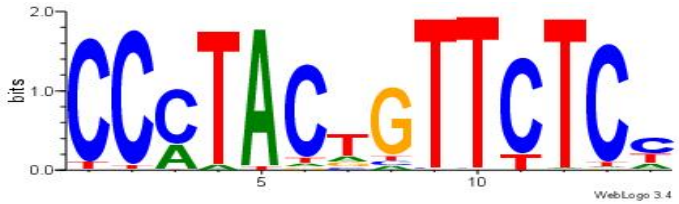

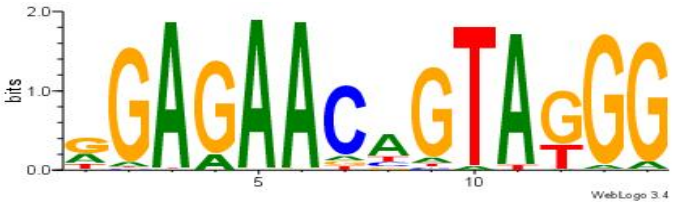

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.118496

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CCAAACCATATCA-------
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

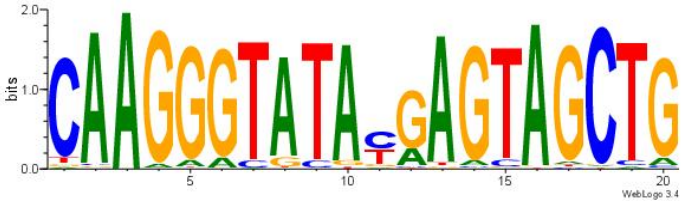

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

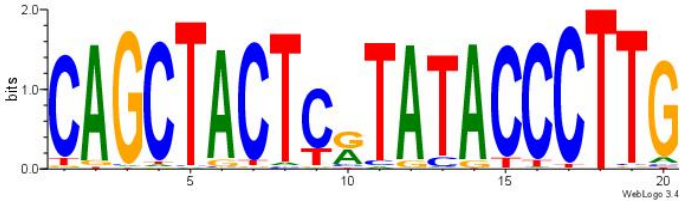

Dataset #: 1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.118697

Alignment:

```
AGCTAGAYACAGAGTGC
TGATATGGTTTGG----
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

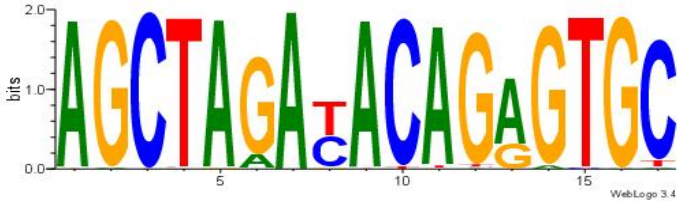

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

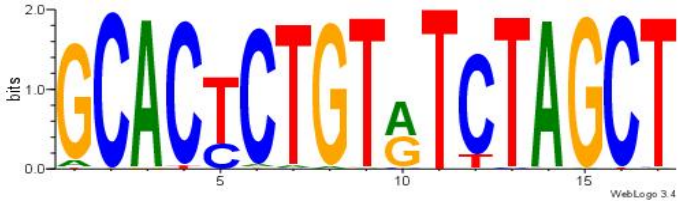

Dataset #: 1 Motif ID: 316 Motif name: Motif 316

Original motif Consensus sequence: CGGAAGTGACGT

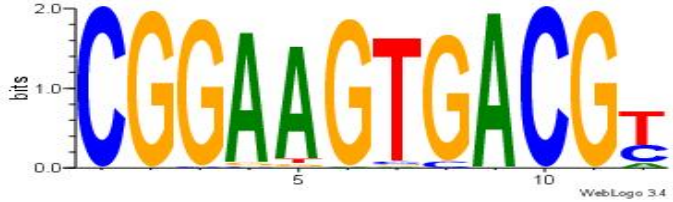

Reverse complement motif Consensus sequence: ACGTCACTTCCG

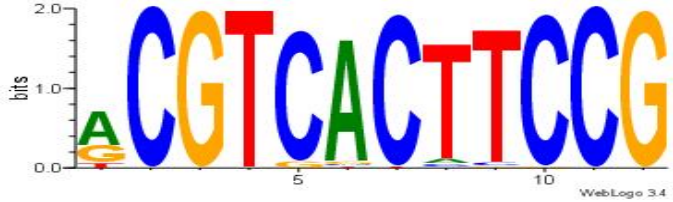

Best Matches for Motif ID 316 (Highest to Lowest)

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0580654

Alignment:

```
CCCCGGGCAGTGAGGG
CGGAAGTGACGT----
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

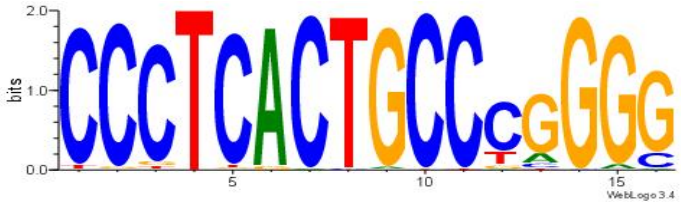

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

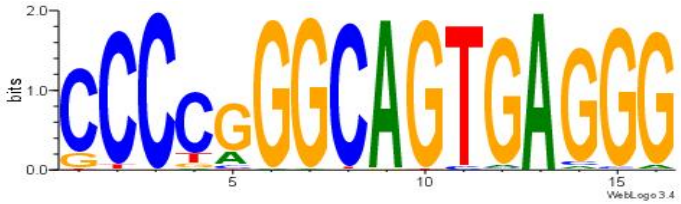

Dataset #:	1
Motif ID:	247
Motif name:	Motif 247
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0581297

Alignment:
GKGGCAGTGAGGC
CGGAAGTGACGT-

Original motif Consensus sequence: GCCTCACTGCCRC

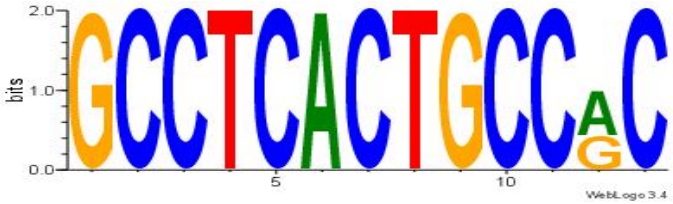

Reverse complement motif Consensus sequence: GKGGCAGTGAGGC

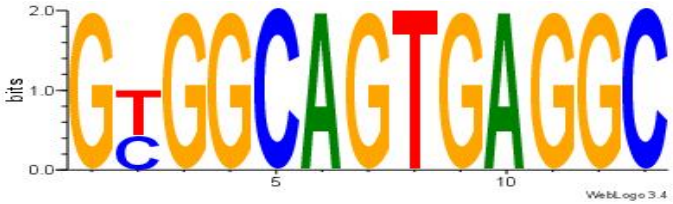

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0638384

Alignment:
GCAGCTTCACTCCTGA
-ACGTCACTTCCG---

Original motif Consensus sequence: GCAGCTTCACTCCTGA

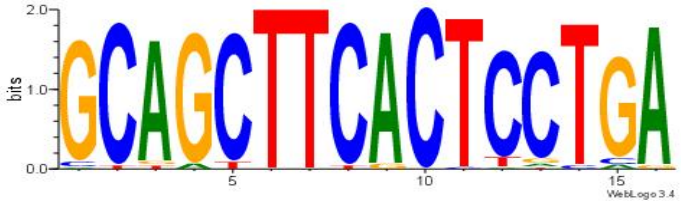

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

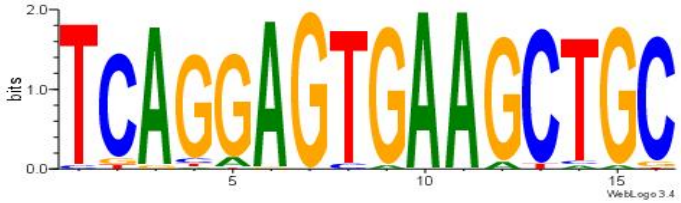

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0713677

Alignment:

```
AGGAGCGCCTCTKCCCGGC
---ACGTCACTTCCG----
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

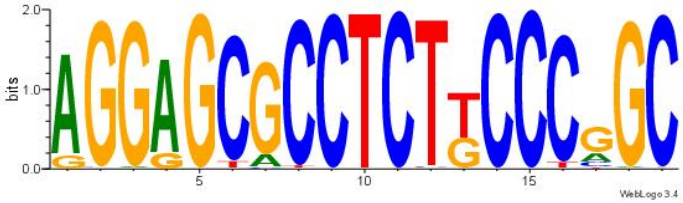

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

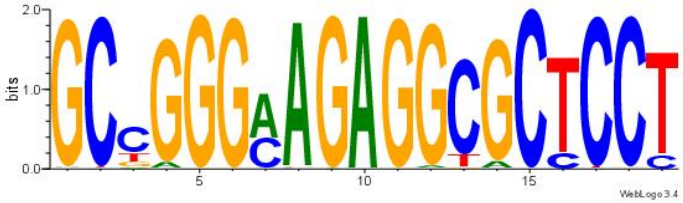

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0721835

Alignment:

```
AGGAGGAAGTCAATTTC
---CGGAAGTGACGT--
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

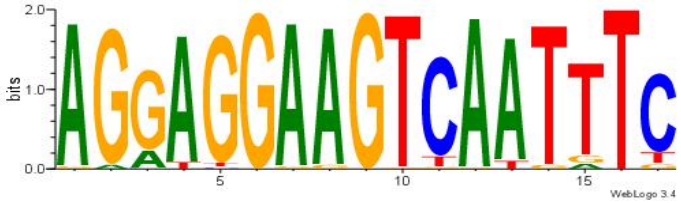

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

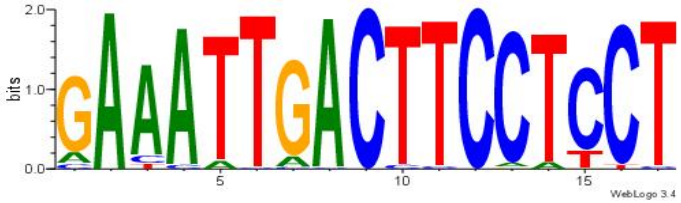

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8

Number of overlap: 12
Similarity score: 0.0733121

Alignment:
GCCKCCCCGTCCGGGAGGGA
-ACGTCACTTCCG-------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

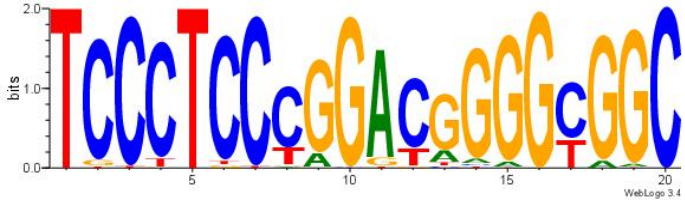

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

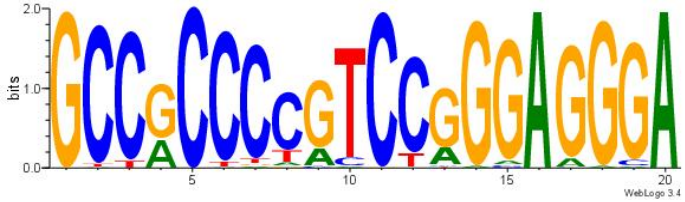

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0735691

Alignment:
GCTGGCCCGCAAGCGCCGCG
-------CGGAAGTGACGT-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

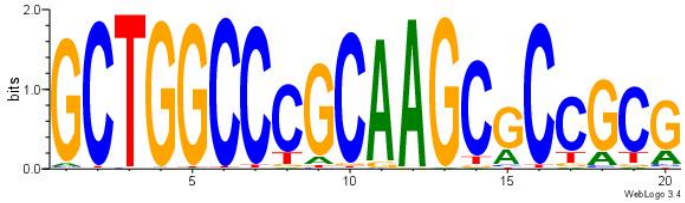

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

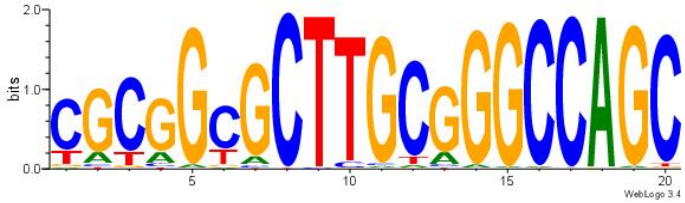

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0768482

Alignment:

```
TAMGACCTCAGGTCCTCAG
----ACGTCACTTCCG---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

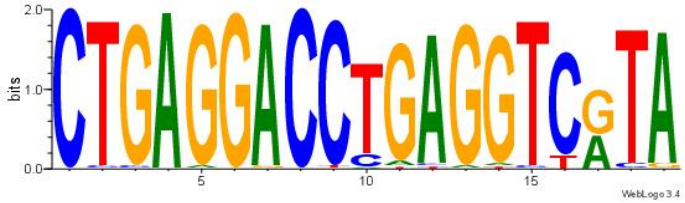

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

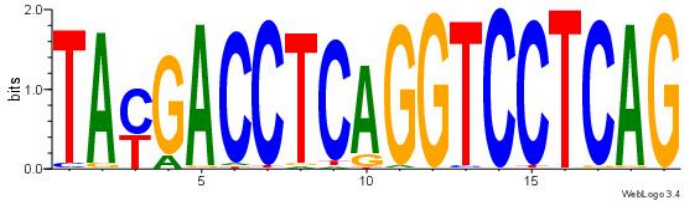

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0782283

Alignment:

```
CAGAAATCACCCGTCTT
CGGAAGTGACGT-----
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

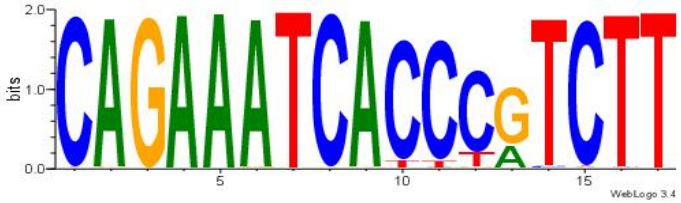

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

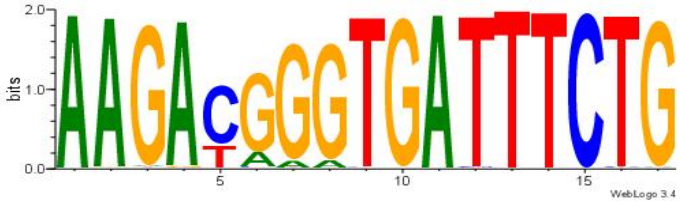

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0785916

Alignment:
CACTGCACTCCAGC
-ACGTCACTTCCG-

Original motif Consensus sequence: CACTGCACTCCAGC

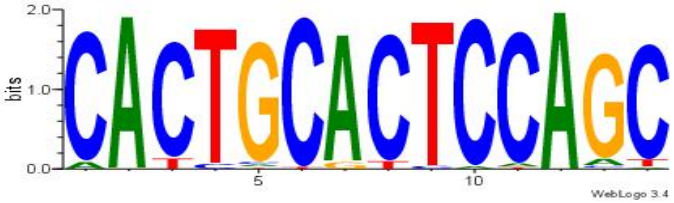

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

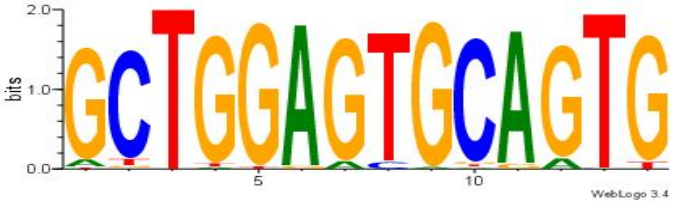

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.0788069

Alignment:
TCKMGCCACTGCACTCCAGC
-------ACGTCACTTCCG-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

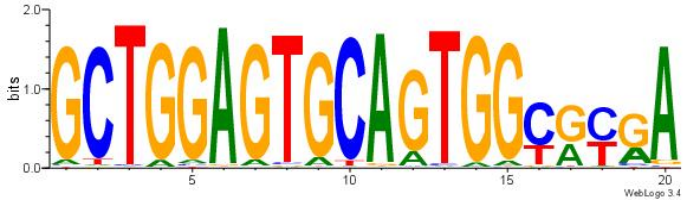

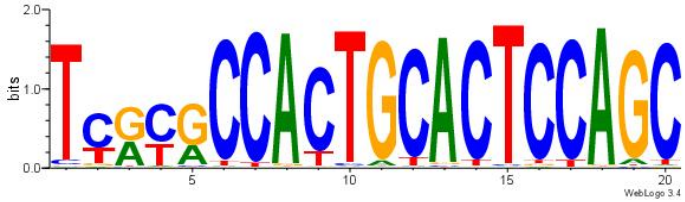

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0828144

Alignment:

```
GGCCMGCAGGGCKGGC
-CGGAAGTGACGT---
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

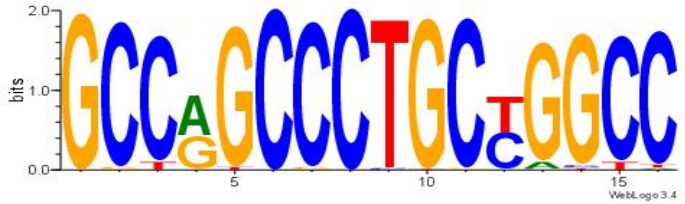

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

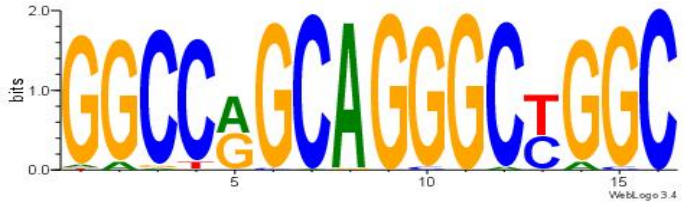

Dataset #:	1

Motif ID:	47
Motif name:	Motif 47
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0849755

Alignment:

```
GCCTCAGTTTCCY
-ACGTCACTTCCG
```

Original motif Consensus sequence: GCCTCAGTTTCCY

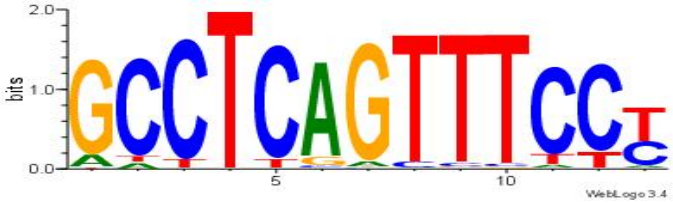

Reverse complement motif Consensus sequence: MGGAAACTGAGGC

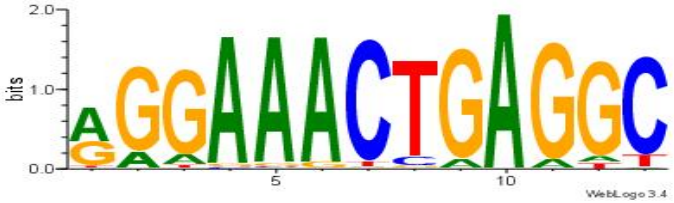

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0869819

Alignment:
CTGACTGGGAGACACCTCCC
ACGTCACTTCCG--------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

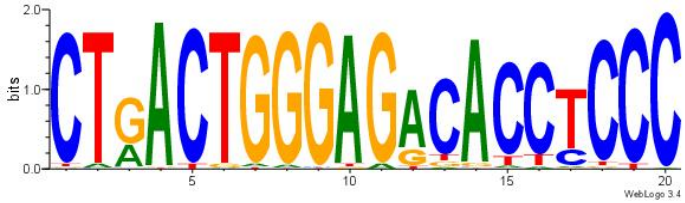

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

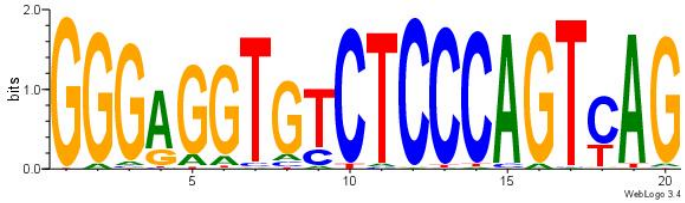

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0871831

Alignment:
TGTGAAGAGACCACCAA
-CGGAAGTGACGT----

Original motif Consensus sequence: TGTGAAGAGACCACCAA

Reverse complement motif Consensus sequence:
TTGGTGGTCTCTTCACA

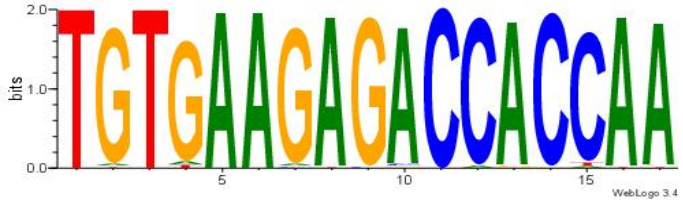

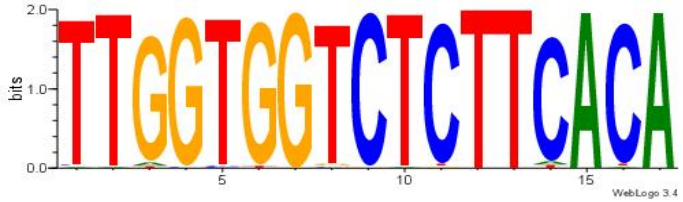

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0891535

Alignment:

```
AGGASCSTCYSWGCCMGGY
---ACGTCACTTCCG----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

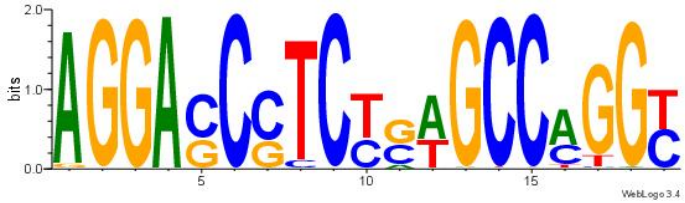

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

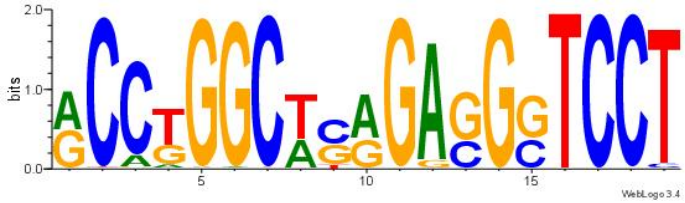

Dataset #: 1

Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0892798

Alignment:

```
GCCTTGCTGCCGC
-ACGTCACTTCCG
```

Original motif Consensus sequence: GCCTTGCTGCCGC

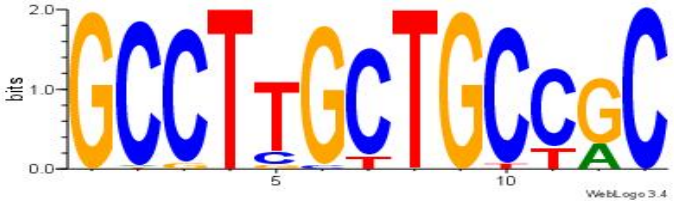

Reverse complement motif Consensus sequence: GCGGCAGCAAGGC

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.090415

Alignment:
CACTTCCCAGACGGGGCG
-----ACGTCACTTCCG-

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

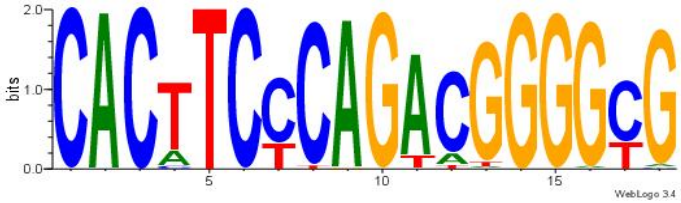

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

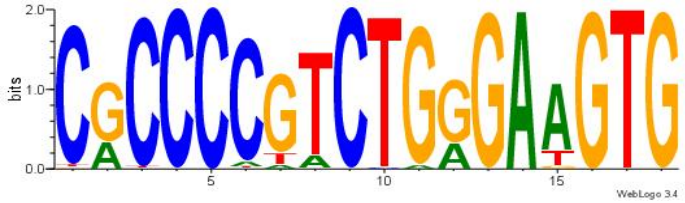

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0909646

Alignment:
AGAAAGGCATGTGAAAA
CGGAAGTGACGT-----

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

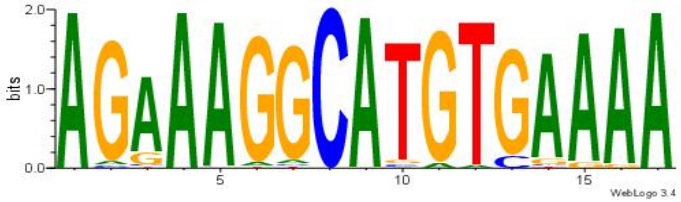

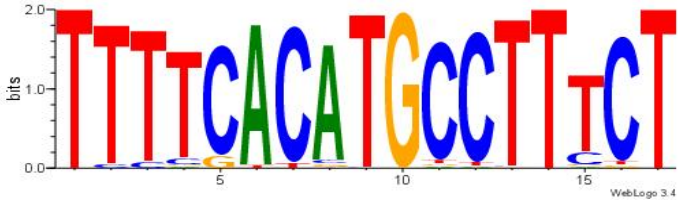

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0915525

Alignment:

```
GACTTCAAGAATGAAGCCG
-----CGGAAGTGACGT--
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

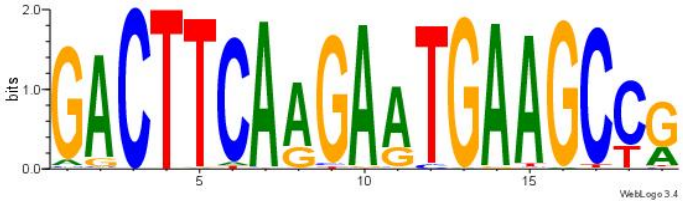

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

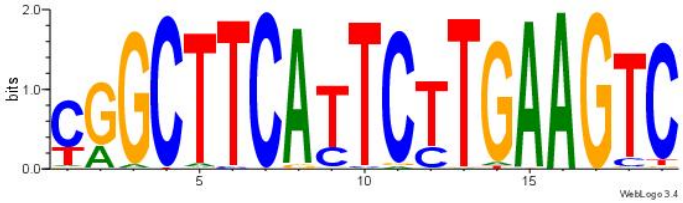

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0921686

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
-CGGAAGTGACGT-------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

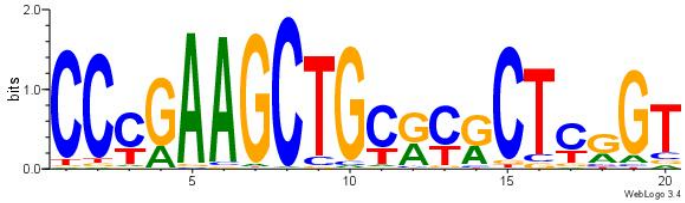

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

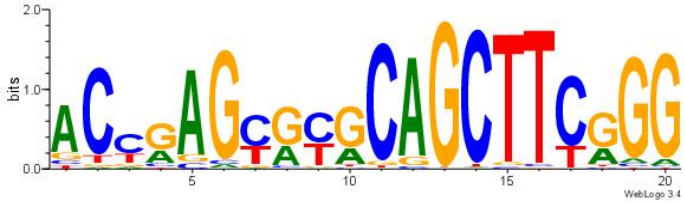

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.0924788

Alignment:
ATCTGACAGGAGGYRGAGCT
--CGGAAGTGACGT------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

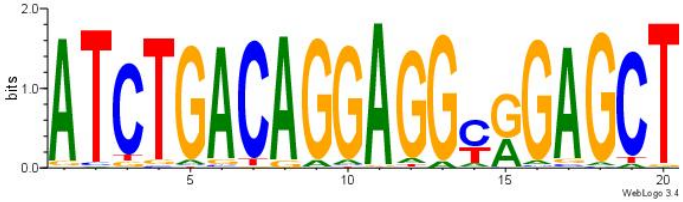

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

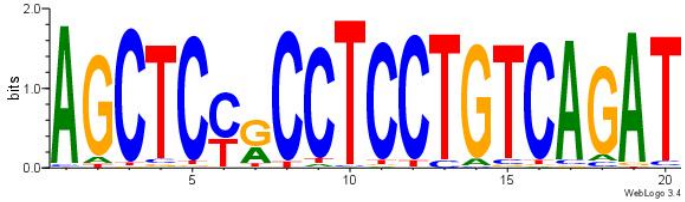

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.092548

Alignment:
MGAAGGGACTTGCCTTGT
--ACGTCACTTCCG----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

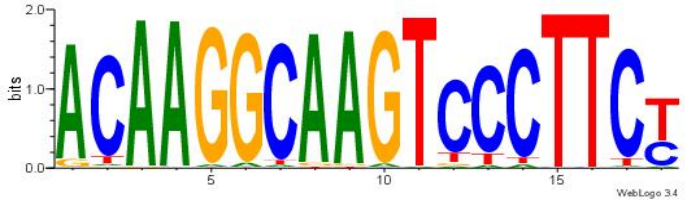

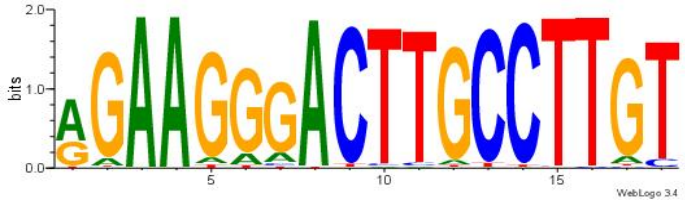

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0932095

Alignment:

```
TGCTGGAGGTCCACTCCAGA
------ACGTCACTTCCG--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

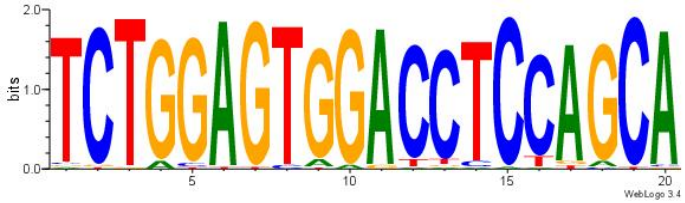

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

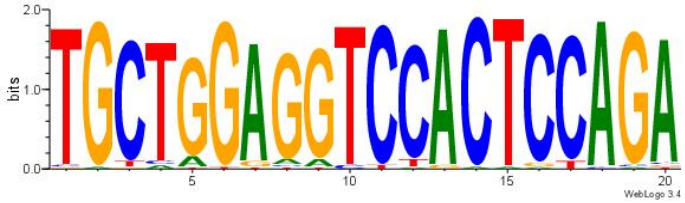

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0940872

Alignment:

```
CGCCCATCGTCTGGGATGT
CGGAAGTGACGT-------
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

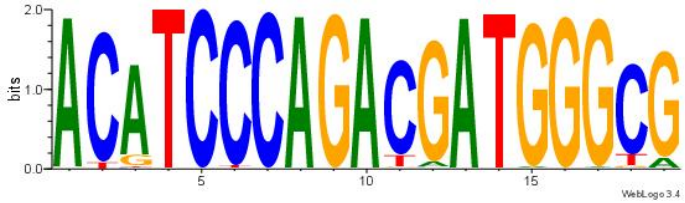

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

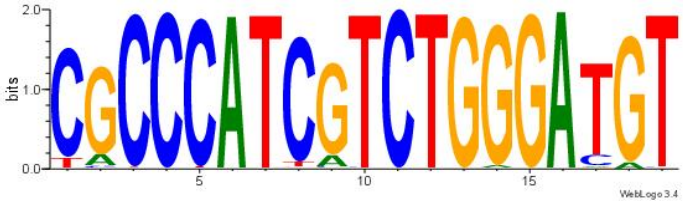

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.0943843

Alignment:
ATGGACAYTTRGGTTGHTTC
-------ACGTCACTTCCG-

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

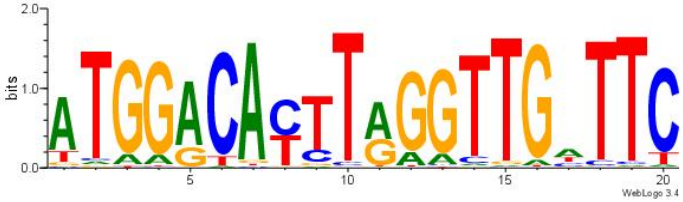

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

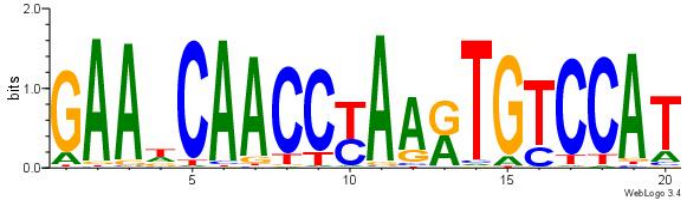

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0948834

Alignment:
ACTCCCTAGTGAGATGAACC
-----CGGAAGTGACGT---

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

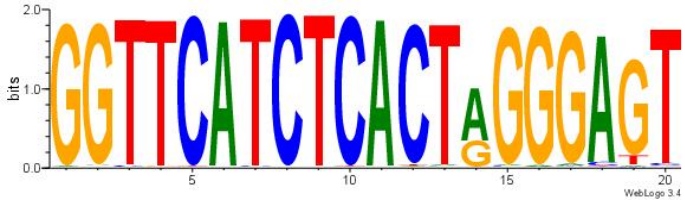

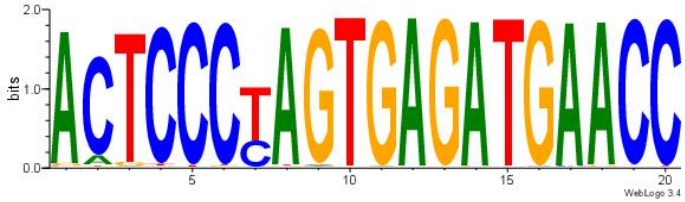

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0950403

Alignment:

```
CTCARGTGATCCTCC
CGGAAGTGACGT---
```

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

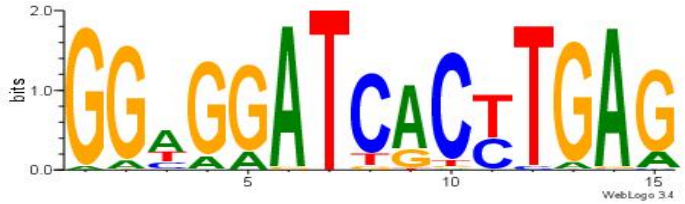

Dataset #:	1
Motif ID:	196

Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.0978795

Alignment:

```
CAAGCCTSKGCAATGGCAGG
-CGGAAGTGACGT-------
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

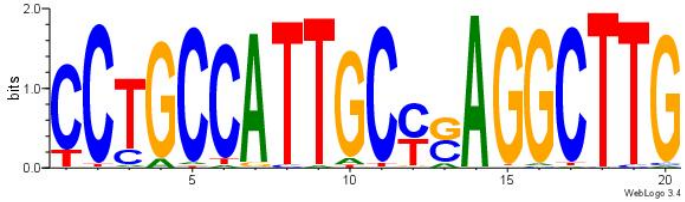

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

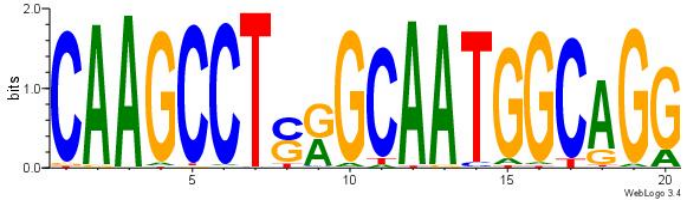

Dataset #:	1
Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0979821

Alignment:
GGGAGGAAGGGGACAC
----CGGAAGTGACGT

Original motif Consensus sequence: GGGAGGAAGGGGACAC

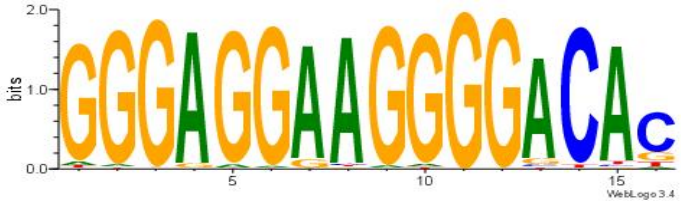

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

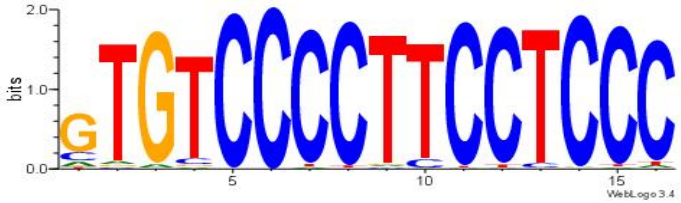

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0993921

Alignment:
KCCGGGCCTTAGCTGCCTTC
------ACGTCACTTCCG--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

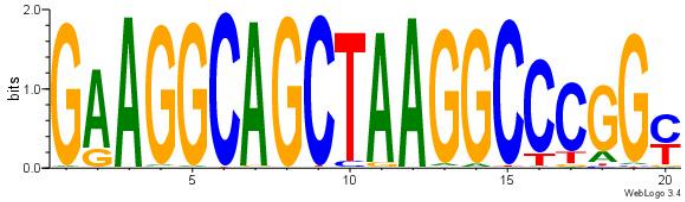

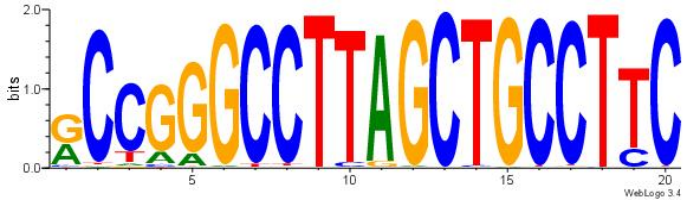

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0995325

Alignment:

```
TCACKMGGGAAGCGCAAG
CGGAAGTGACGT------
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

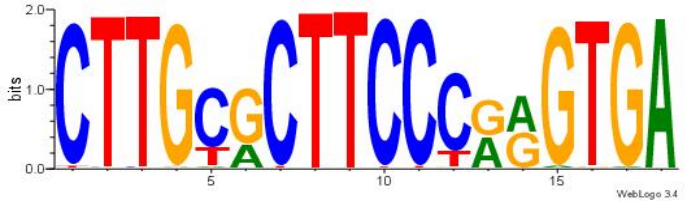

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

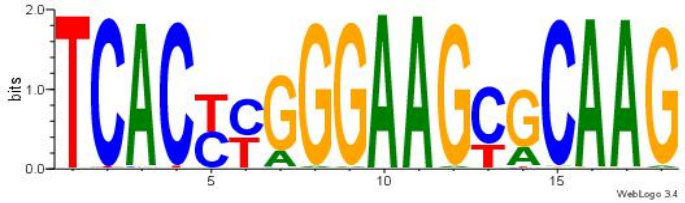

Dataset #:	1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0997385

Alignment:

```
TAGTGGTGATTTSTGAGAT
---ACGTCACTTCCG----
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

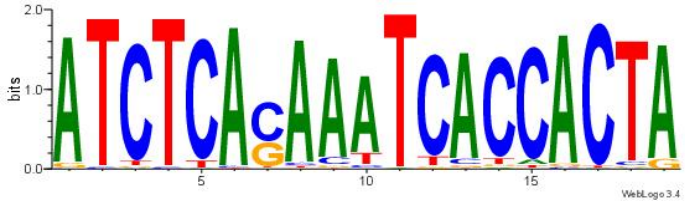

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

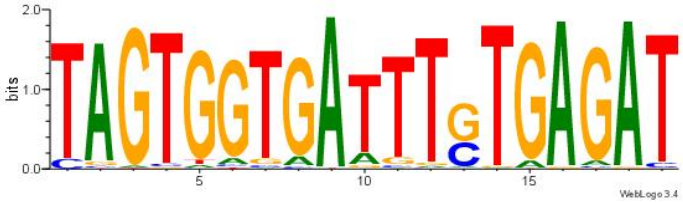

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.0998587

Alignment:
AAGGAACAAACTCCRGACAC
-CGGAAGTGACGT-------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

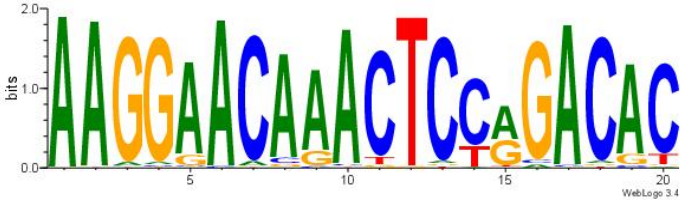

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

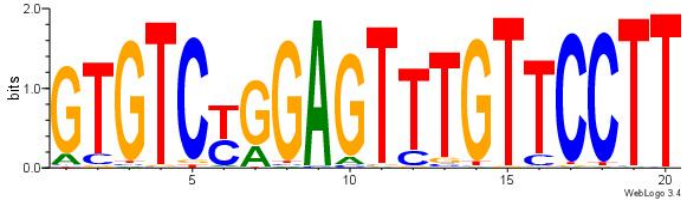

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.100306

Alignment:
GGTGGAGCTGCCTGCCAGTC
------CGGAAGTGACGT--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

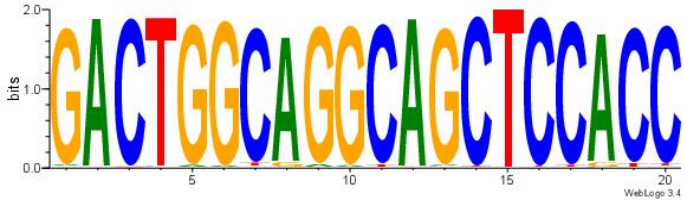

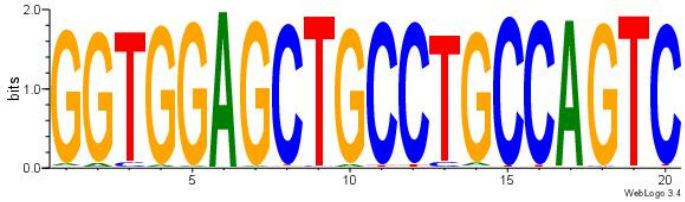

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.100496

Alignment:

```
HAGTGGKATTGCTGGATCAT
-----CGGAAGTGACGT---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

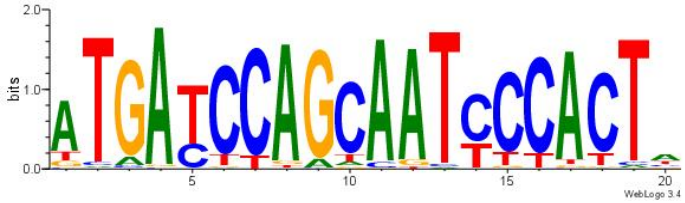

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

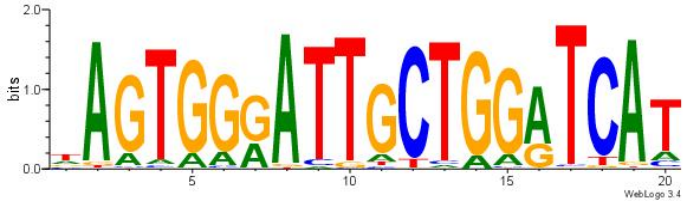

Dataset #:	1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.100573

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
----ACGTCACTTCCG----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

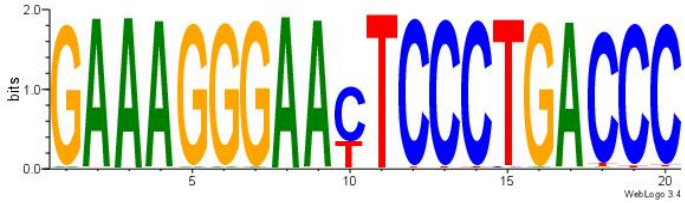

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

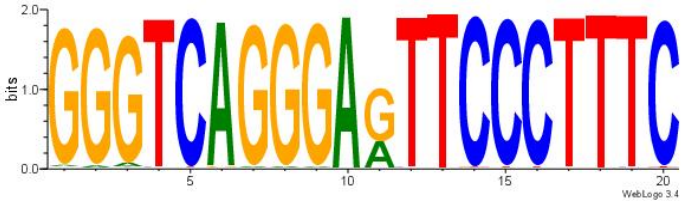

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12

Similarity score: 0.101556

Alignment:
CCGCTGCACTGTGGGAGCCC
------ACGTCACTTCCG--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

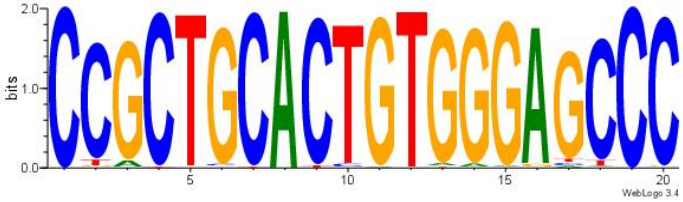

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

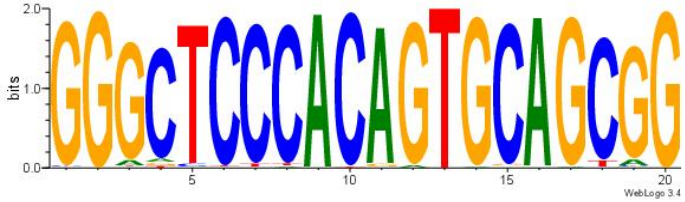

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.101622

Alignment:
GGGGGCTGACCCCCCCACC
CGGAAGTGACGT-------

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

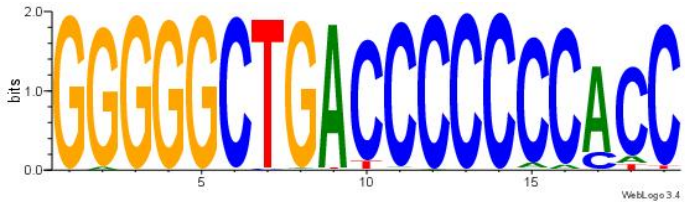

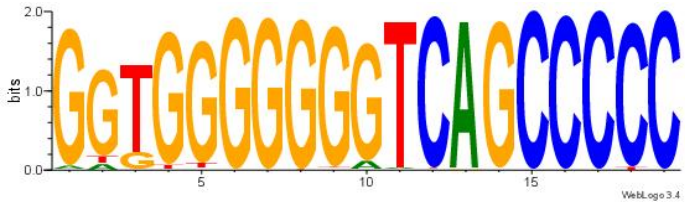

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.102391

Alignment:

```
GCCAGGCAGAGRGKCTCCT
---CGGAAGTGACGT----
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

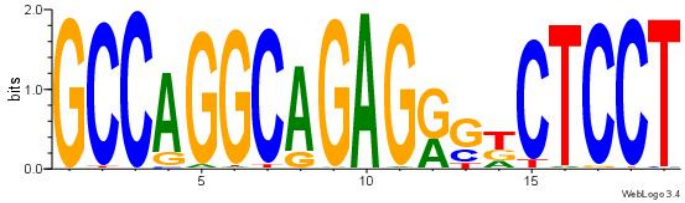

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

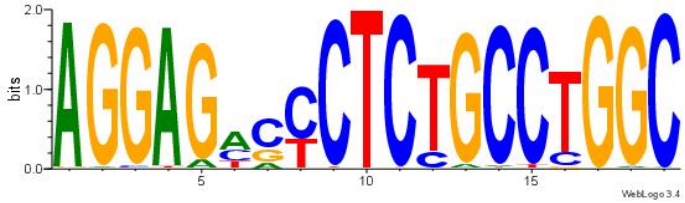

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.102511

Alignment:

```
ACATCMTCTGAAATCTAGG
CGGAAGTGACGT-------
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

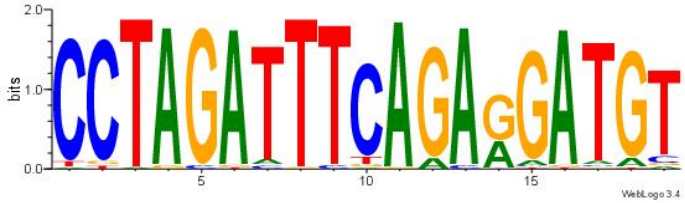

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

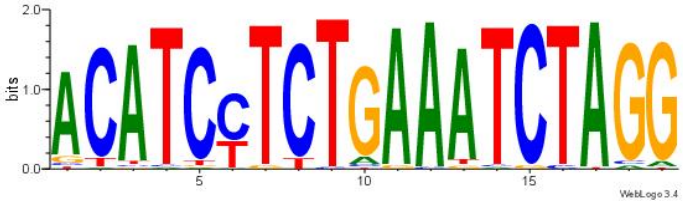

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12

Similarity score: 0.10257

Alignment:
GCCACCAMGCCMKGCTAAT
-ACGTCACTTCCG------

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

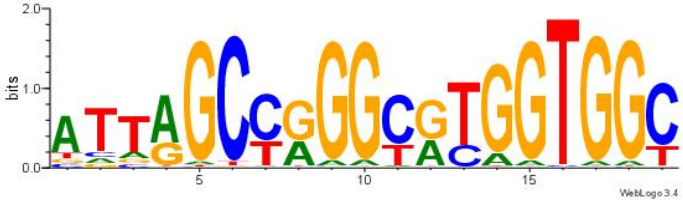

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

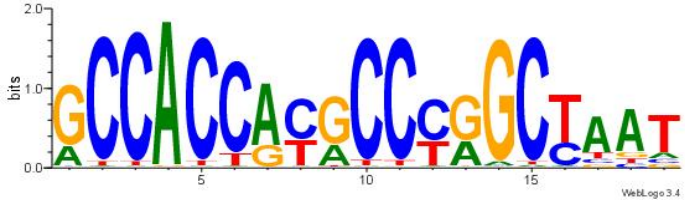

Dataset #: 1
Motif ID: 157
Motif name: Motif 157
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.103194

Alignment:
CCGCGCCGTGCGC
ACGTCACTTCCG-

Original motif Consensus sequence: GCGCACGGCGCGG

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

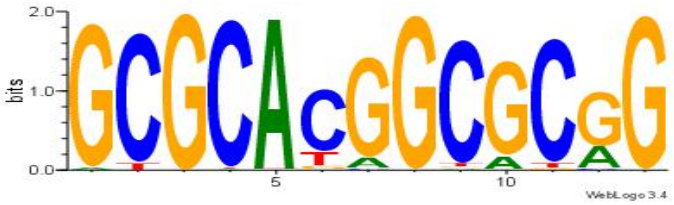

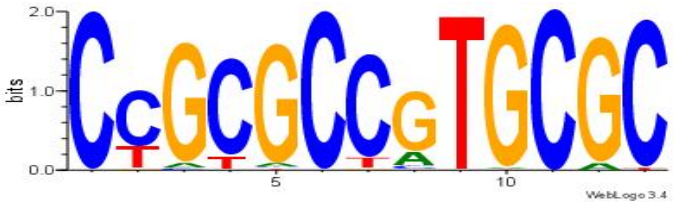

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.10338

Alignment:

```
GTCTGGMGTCTTGG
CGGAAGTGACGT--
```

Original motif Consensus sequence: CCAAGACYCCAGAC

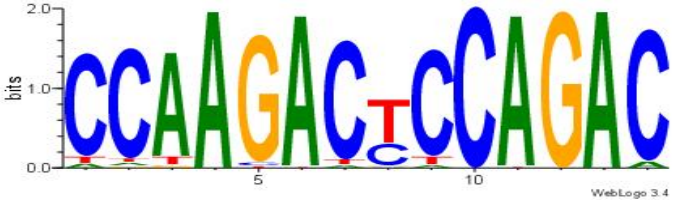

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

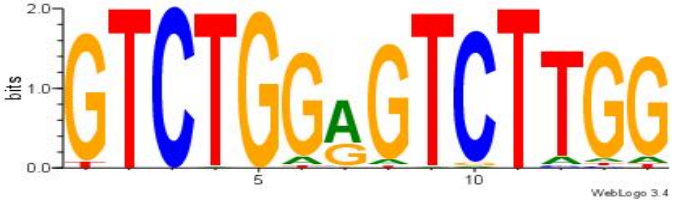

Dataset #:	1
Motif ID:	344

Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.103389

Alignment:

```
CATAGGAGATGAC
CGGAAGTGACGT-
```

Original motif Consensus sequence: CATAGGAGATGAC

Reverse complement motif Consensus sequence: GTCATCTCCTATG

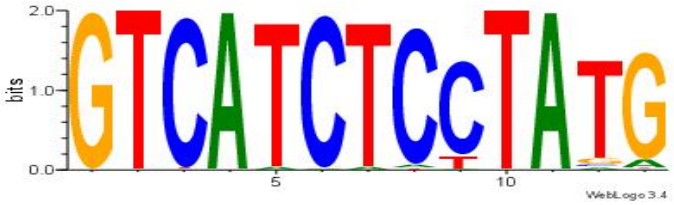

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.10347

Alignment:
GGCATCACGGATCCTACCAA
-------CGGAAGTGACGT-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

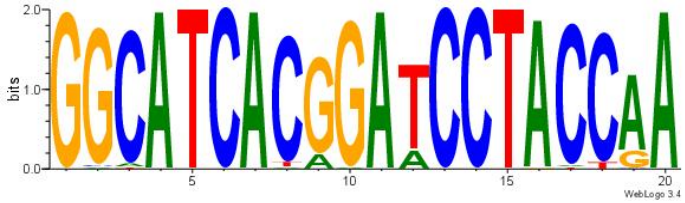

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

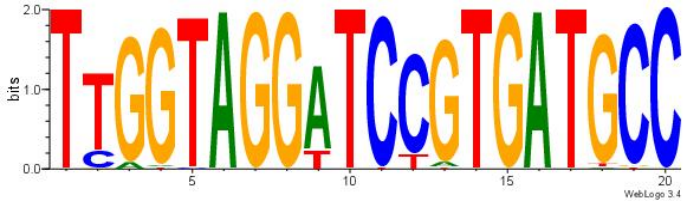

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.103908

Alignment:
AAAGTGCCGAGAKTGCAGC
-------CGGAAGTGACGT

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

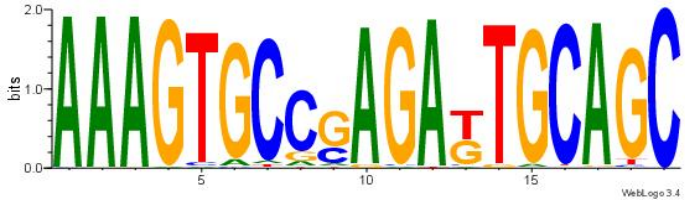

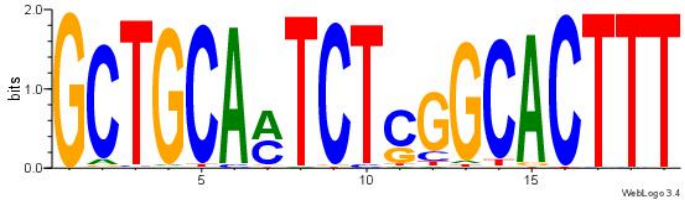

Dataset #:	1
Motif ID:	166
Motif name:	Motif 166
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.104233

Alignment:

```
AAGGGACATTKGAG
ACGTCACTTCCG--
```

Original motif Consensus sequence: AAGGGACATTKGAG

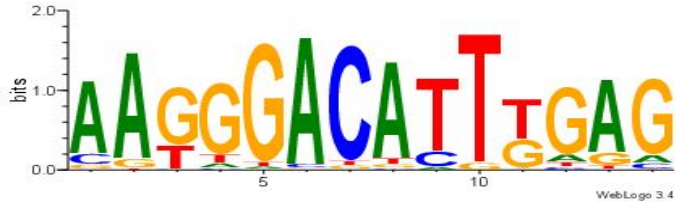

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

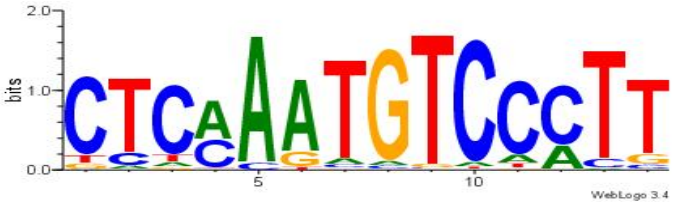

Dataset #:	1
Motif ID:	323

Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.104313

Alignment:

```
GCTCTCAGGTCCA
-ACGTCACTTCCG
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

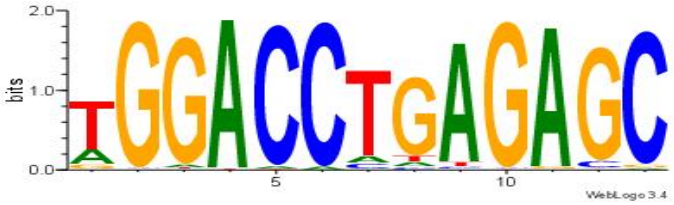

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.104334

Alignment:
GGTTTTCCATTCCTGAG
--ACGTCACTTCCG---

Original motif Consensus sequence: CTCAGGAATGGAAAACC

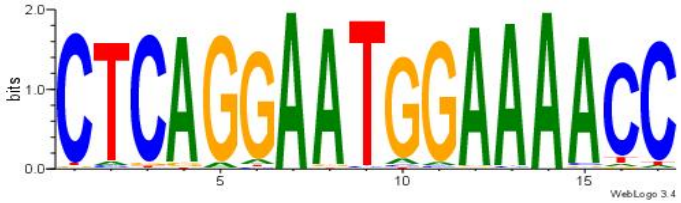

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

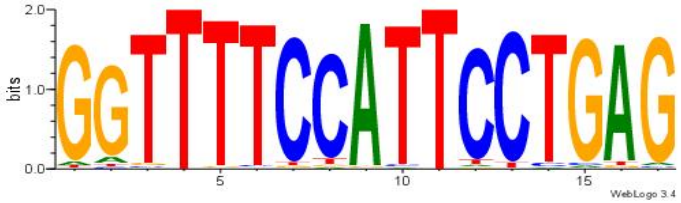

Dataset #: 1 Motif ID: 317 Motif name: Motif 317

Original motif Consensus sequence: ACATGCTACAACAT

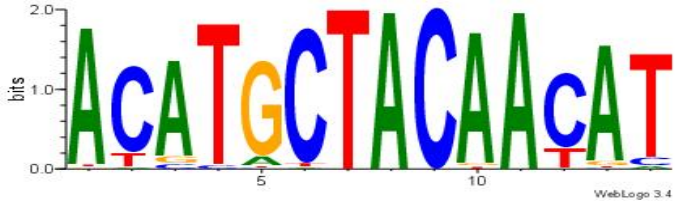

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

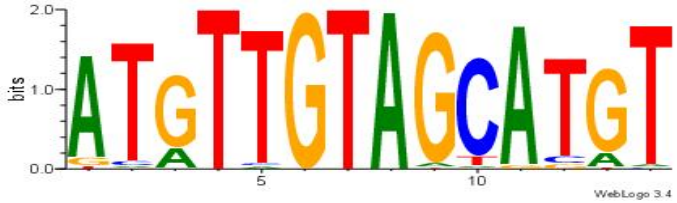

Best Matches for Motif ID 317 (Highest to Lowest)

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward

Position number: 5
Number of overlap: 14
Similarity score: 0.0691153

Alignment:
TTGGAGGTTCTAGCAGGG
----ATGTTGTAGCATGT

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

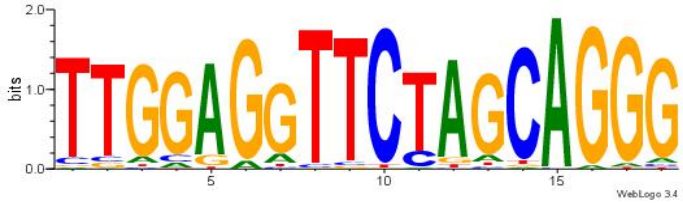

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0828209

Alignment:
CGCCCATCGTCTGGGATGT
-----ATGTTGTAGCATGT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

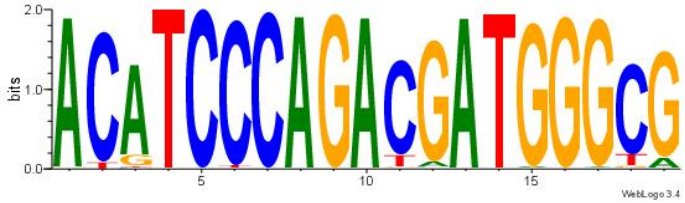

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

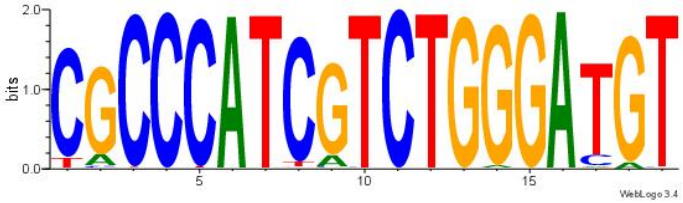

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.0862934

Alignment:

```
ACATCMTCTGAAATCTAGG
-----ACATGCTACAACAT
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

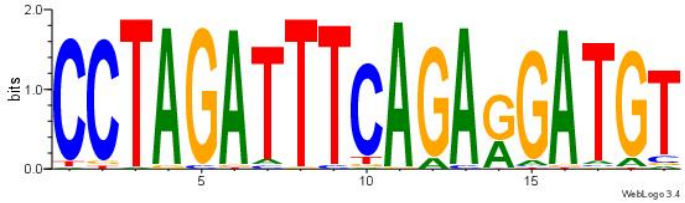

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

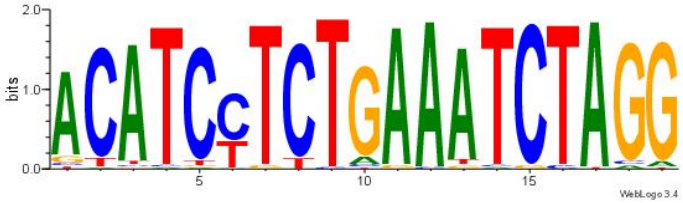

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0870528

Alignment:

```
ACCCAATWTGTAGTCTTTTA
----ATGTTGTAGCATGT--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

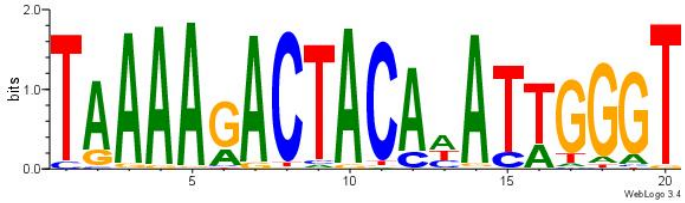

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

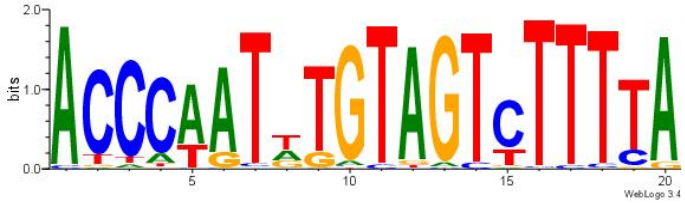

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.0936287

Alignment:
CATTTGGGAGCCCATTGA
---ATGTTGTAGCATGT-

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

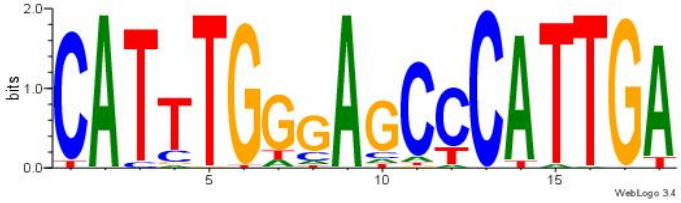

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

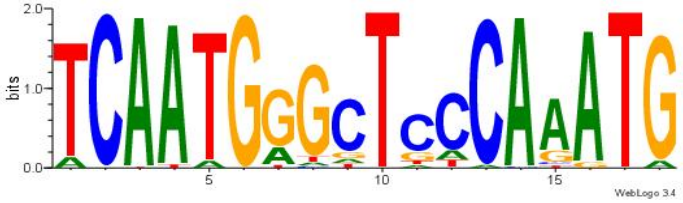

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0941196

Alignment:
GCCAATTTCTCCCATTTGGA
---ATGTTGTAGCATGT---

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

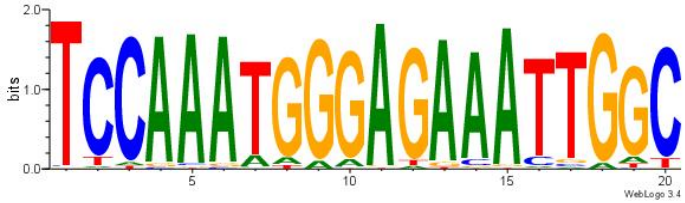

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

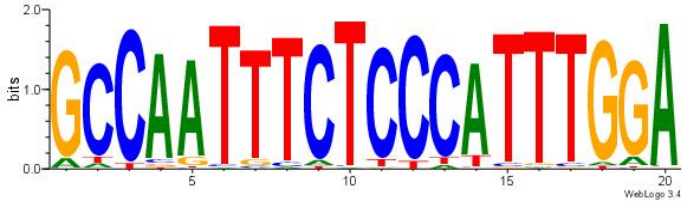

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0960832

Alignment:

```
AACAACAACAACAAMAA
ACATGCTACAACAT---
```

Original motif Consensus sequence: AACAACAACAACAAMAA

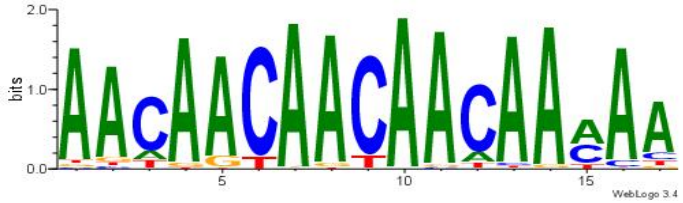

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

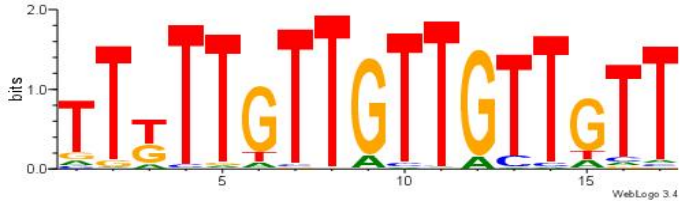

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0969088

Alignment:

```
ATGTGGAGGTGGAAGACAGT
------ATGTTGTAGCATGT
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

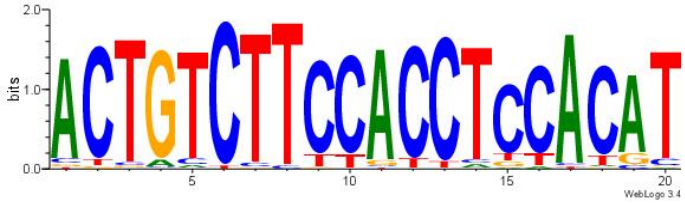

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

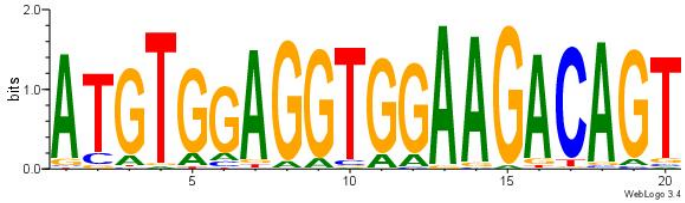

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 14
Similarity score: 0.0973156

Alignment:
GAAACTGCTTTGTGATGTGT
----ATGTTGTAGCATGT--

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

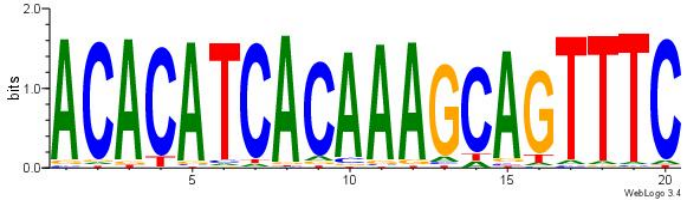

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

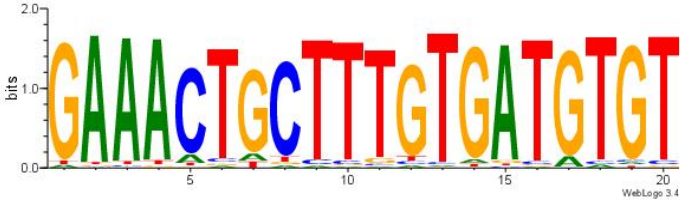

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.0981093

Alignment:
AAAGCTGGAGCTATTATCTA
-ATGTTGTAGCATGT-----

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

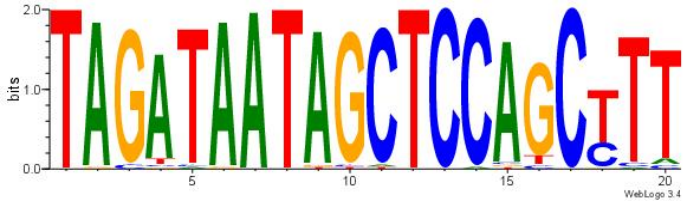

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

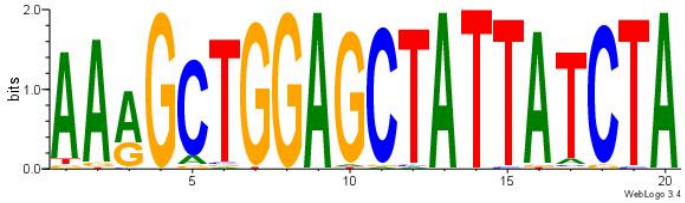

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.100574

Alignment:

```
HAGTGGKATTGCTGGATCAT
ACATGCTACAACAT------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

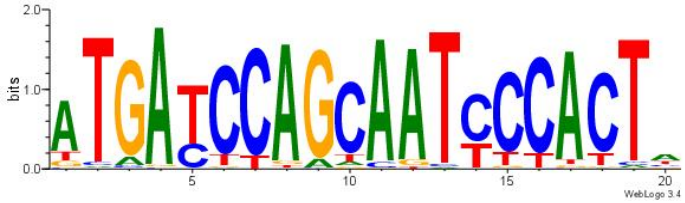

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

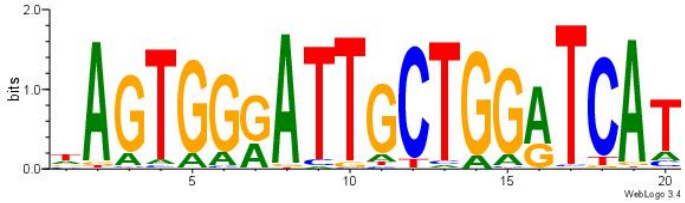

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.102625

Alignment:

```
ACAGGCTGTCCCAGGATTC
--ATGTTGTAGCATGT---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

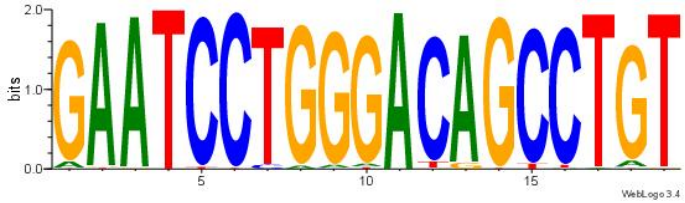

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

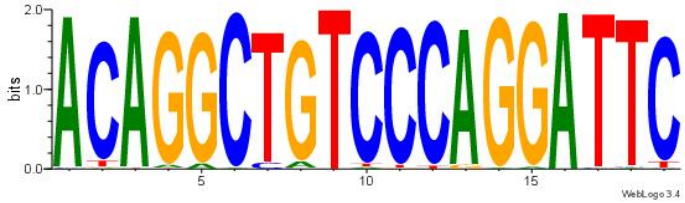

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.10403

Alignment:
CMCAGTTCACAATAGGGTT
----ACATGCTACAACAT-

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

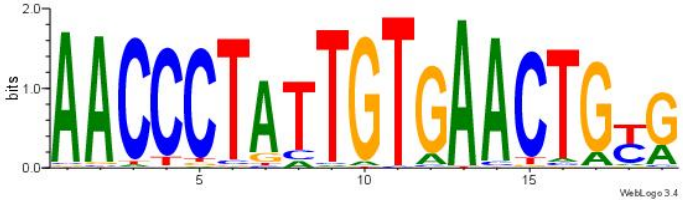

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

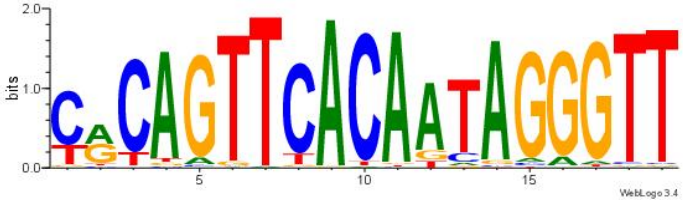

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.10403

Alignment:
AAAATGTGGTAYATAYAYAC
------ATGTTGTAGCATGT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

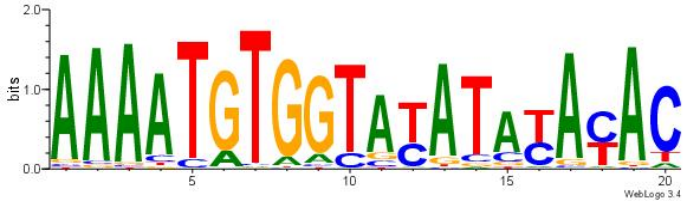

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

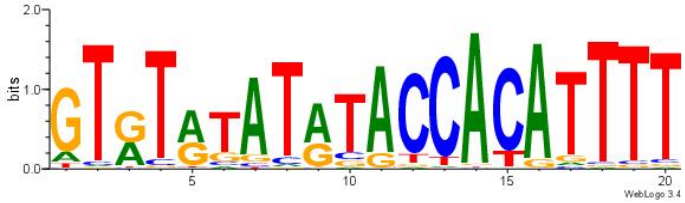

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.104154

Alignment:

```
GCACATGTAYCCYAGAACTT
------ACATGCTACAACAT
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

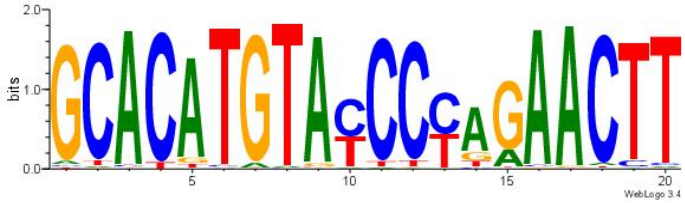

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

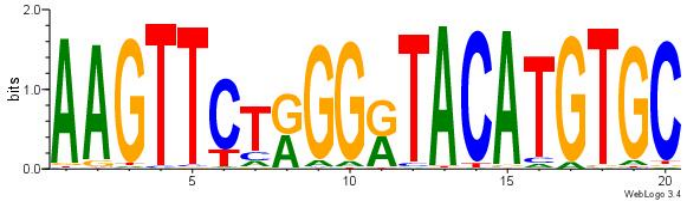

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.104225

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
--ATGTTGTAGCATGT----
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

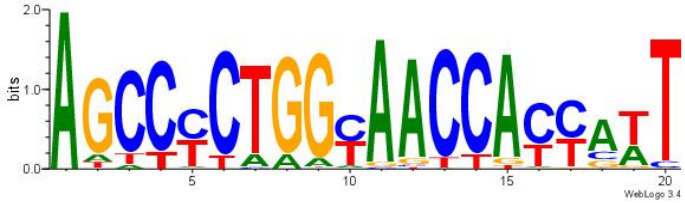

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

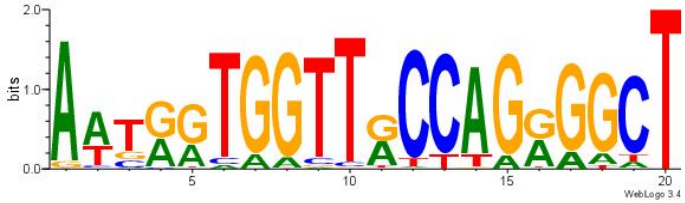

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.105012

Alignment:
TMGGGAGGCTGAGGCAGGAG
-----ATGTTGTAGCATGT-

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

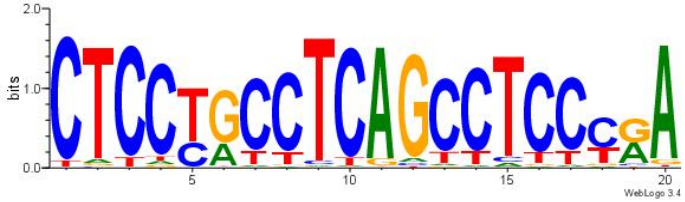

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

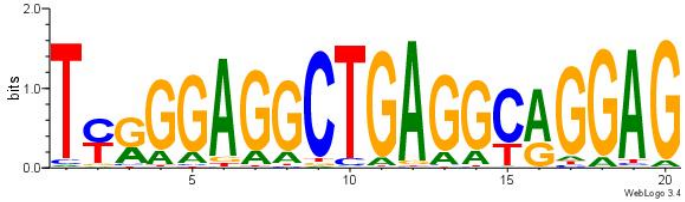

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.105065

Alignment:
TAAGTGGGAGCTAARC
-ATGTTGTAGCATGT-

Original motif Consensus sequence: TAAGTGGGAGCTAARC

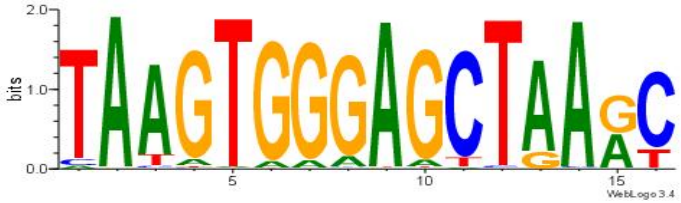

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

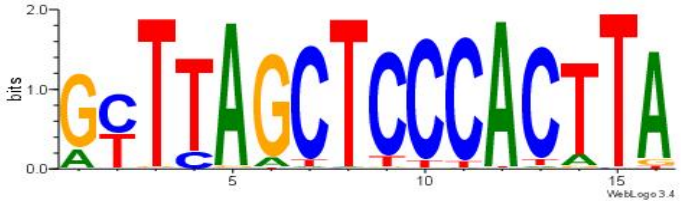

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.105094

Alignment:

```
ACACACAYACACACACACA
----ACATGCTACAACAT-
```

Original motif Consensus sequence: ACACACAYACACACACACA

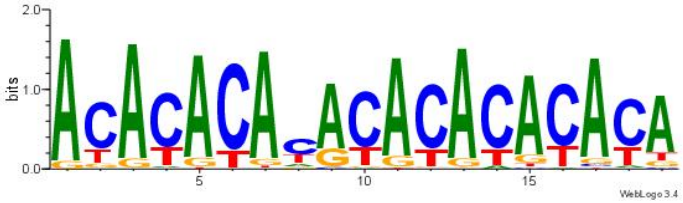

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

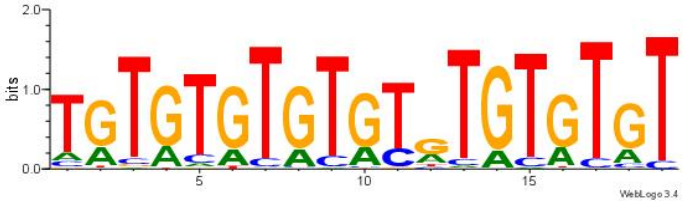

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	14
Similarity score:	0.105349

Alignment:

```
TYTGTCMTTTTGTGACTGGC
------ATGTTGTAGCATGT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

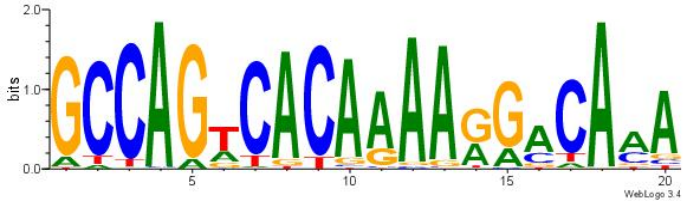

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

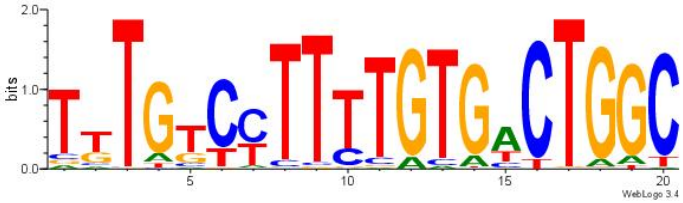

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.106849

Alignment:
AGACAGTGGGYGCAGGHCA
--ATGTTGTAGCATGT---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

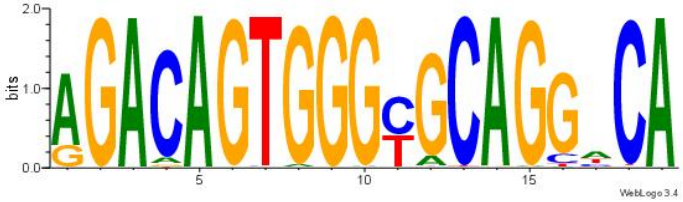

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

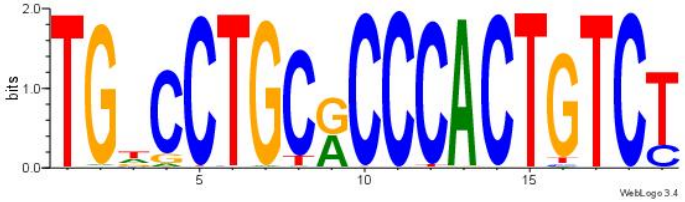

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.107101

Alignment:
AGCTCMKCCTCCTGTCAGAT
ACATGCTACAACAT------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

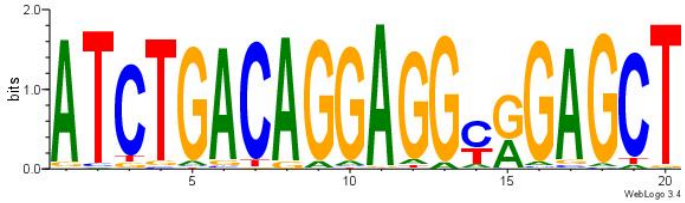

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

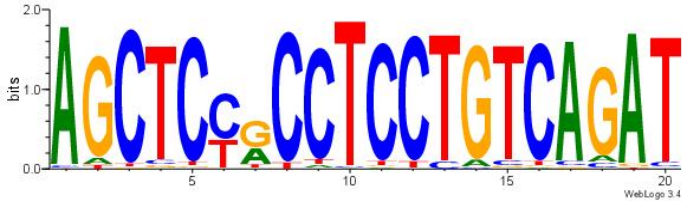

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.107147

Alignment:

```
CTCCAGKTMCATCCATGTTG
----ATGTTGTAGCATGT--
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

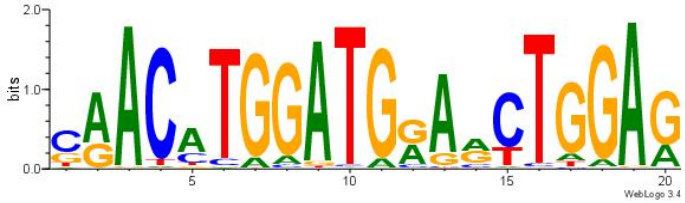

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

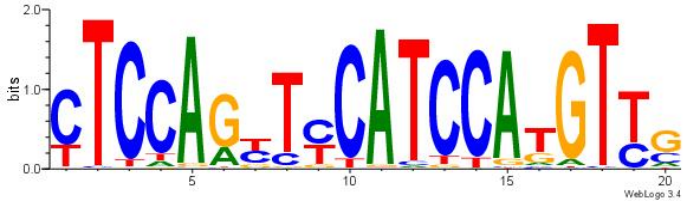

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.107356

Alignment:

```
GCAGCAMTATTCACAATAG
--ACATGCTACAACAT---
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

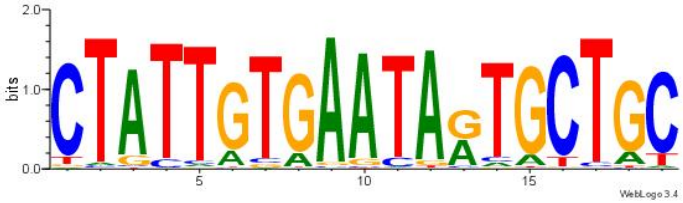

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

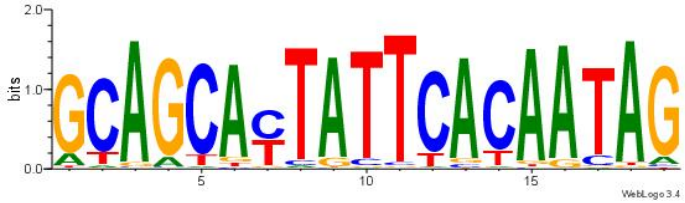

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.107566

Alignment:
CAGTCTGTGTCTTTTAATT
-ATGTTGTAGCATGT----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

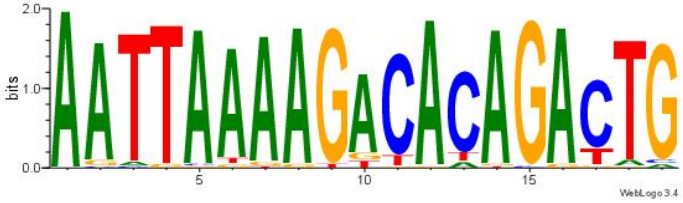

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

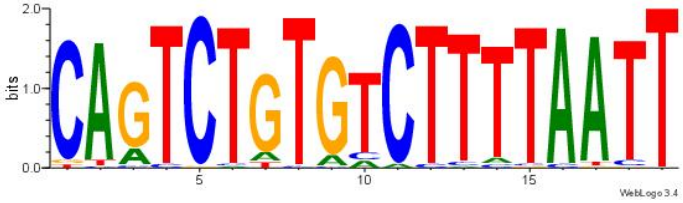

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.108304

Alignment:
KACGGGCTTAARAAACGGC
----ACATGCTACAACAT-

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

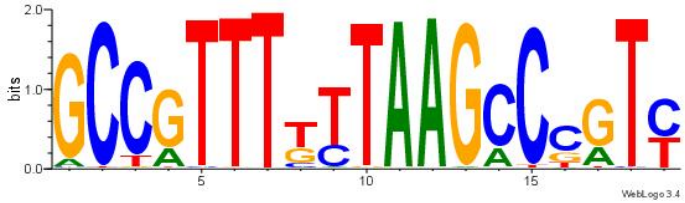

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

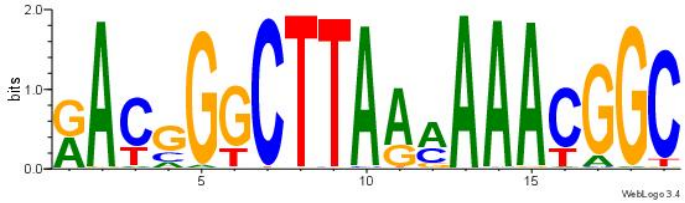

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.108348

Alignment:

```
AGTTCTTAAAGATGGT
ATGTTGTAGCATGT--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

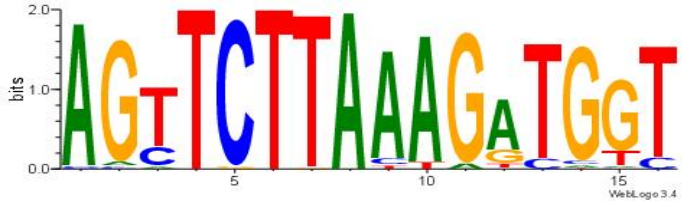

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

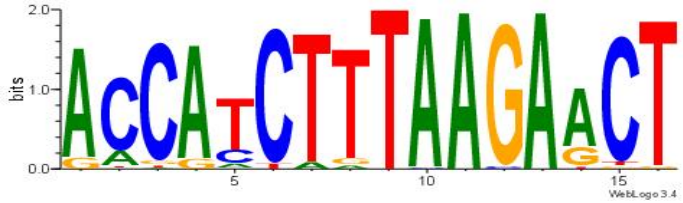

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.108669

Alignment:

```
GTGGCCCTCTTCTCACAGCT
------ATGTTGTAGCATGT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

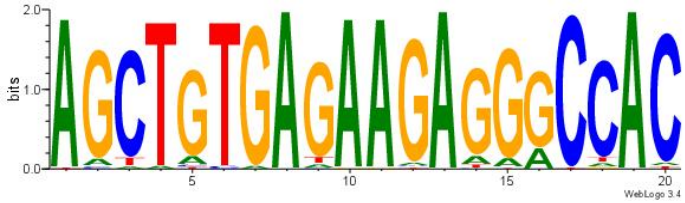

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

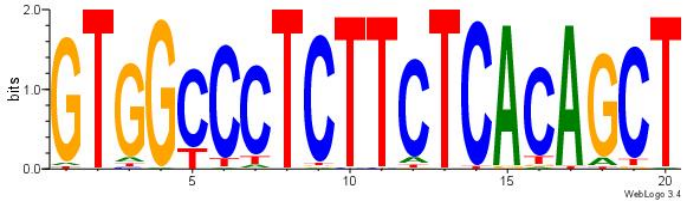

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.108694

Alignment:
TWTACCTATGTAACAAACCT
-ACATGCTACAACAT-----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

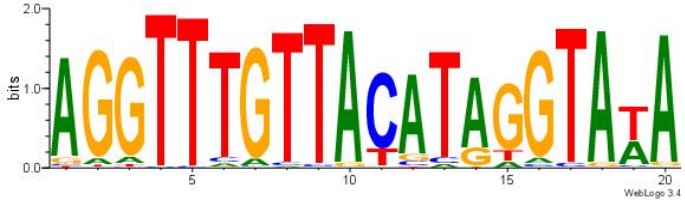

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

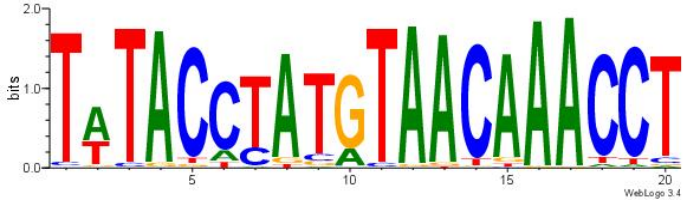

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.108888

Alignment:
TAATTTTATGTGTCAACTTG
-----ACATGCTACAACAT-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

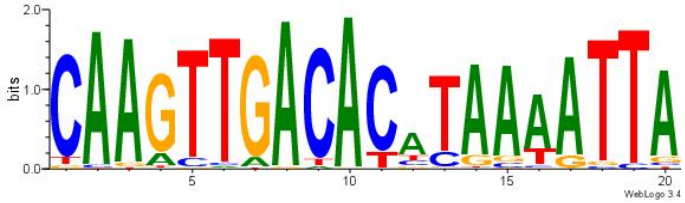

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

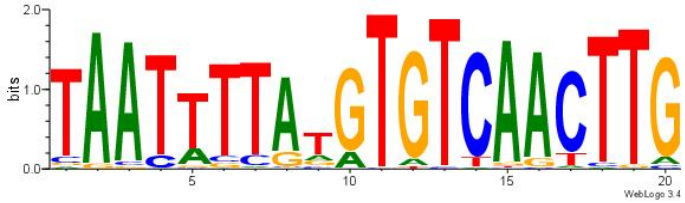

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.109836

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-ATGTTGTAGCATGT-----
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

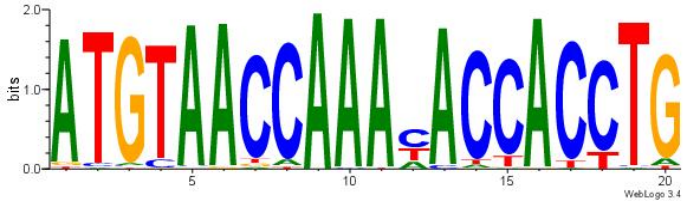

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

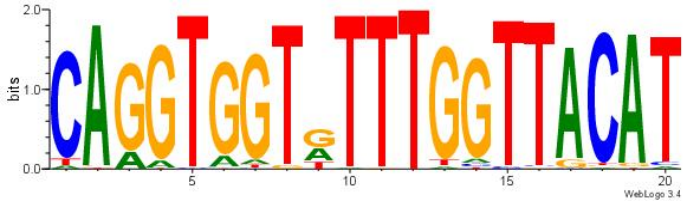

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.110247

Alignment:

```
ATCATTCTTATGCCTTTG
---ATGTTGTAGCATGT-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

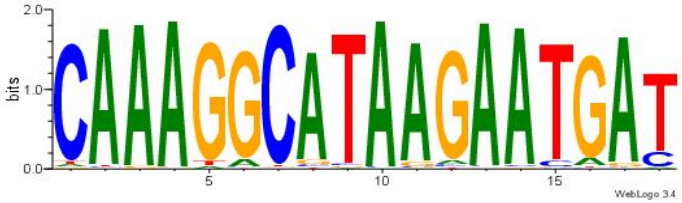

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

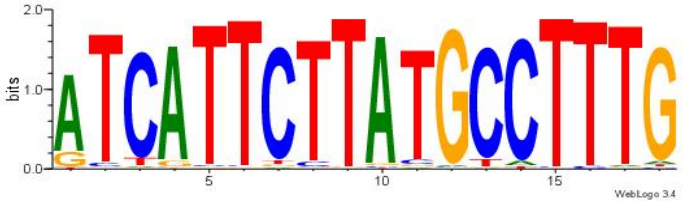

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

Number of overlap: 14
Similarity score: 0.110433

Alignment:
ACTTTGGACTGTGGACTTTT
ATGTTGTAGCATGT------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

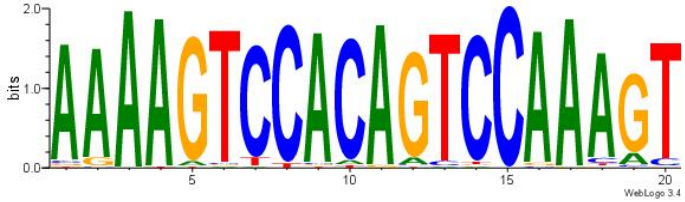

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

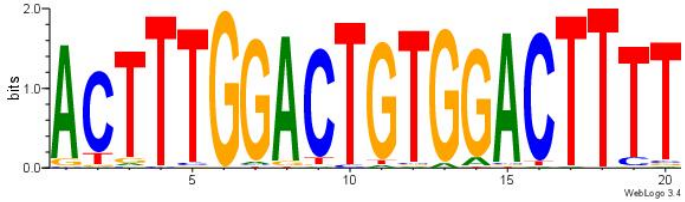

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.110831

Alignment:
GAATACCTCCTGAAGGACCT
------ATGTTGTAGCATGT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

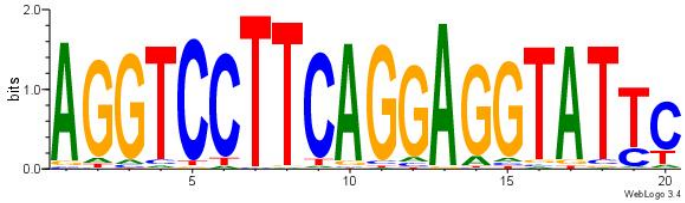

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

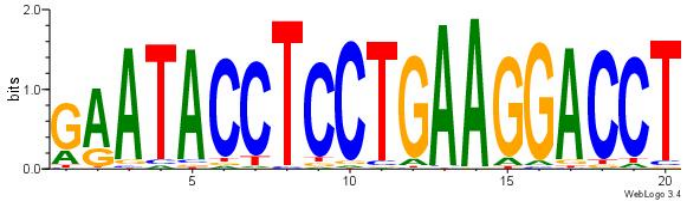

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.110915

Alignment:

```
GGTCAGGATCATCAATAT
ACATGCTACAACAT----
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

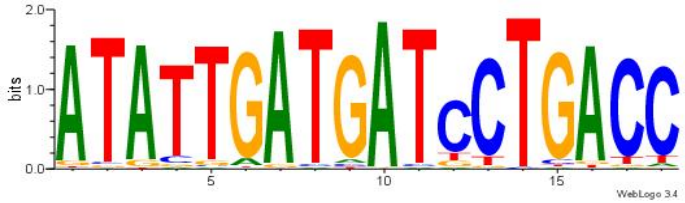

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

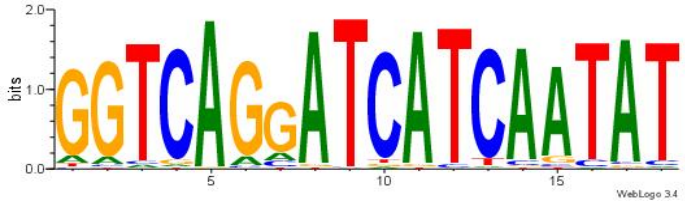

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.111022

Alignment:

```
CCTTTGACTCCATGTC
-ATGTTGTAGCATGT-
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

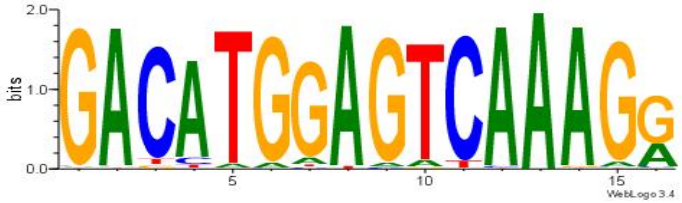

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

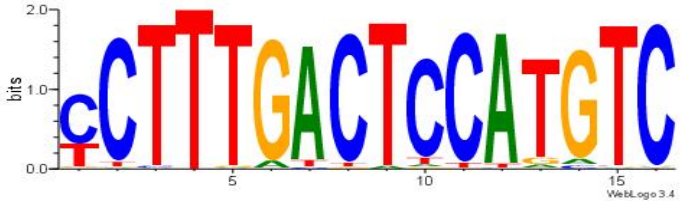

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.111091

Alignment:
ATGGCTGAATAKTATTCCAT
ACATGCTACAACAT------

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

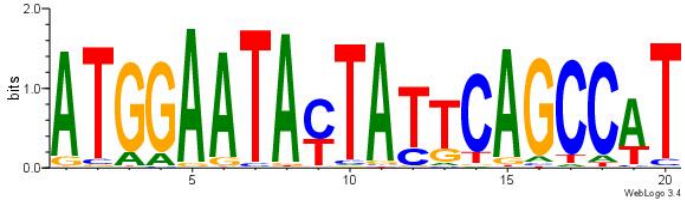

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

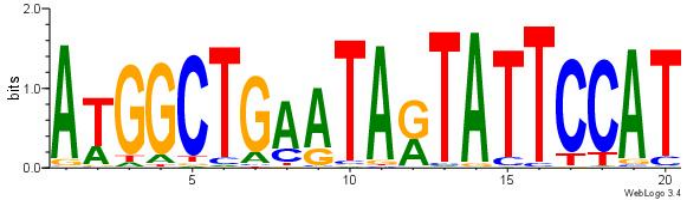

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.11142

Alignment:
GTGTGCGAATAGGTGT
ATGTTGTAGCATGT--

Original motif Consensus sequence: ACACCTATTCGCACAC

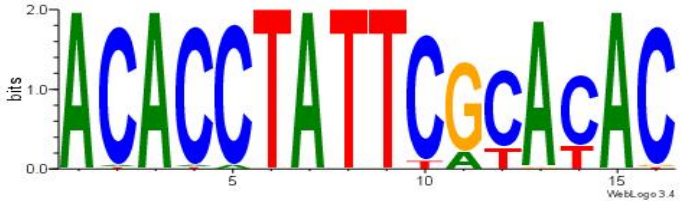

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

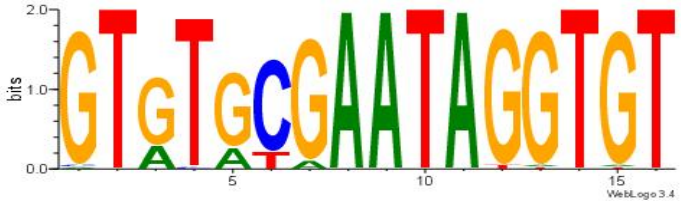

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.111947

Alignment:

```
AGGCTGTTTTACAGTTAAC
---ATGTTGTAGCATGT--
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

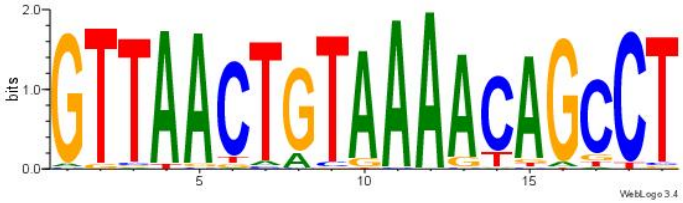

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

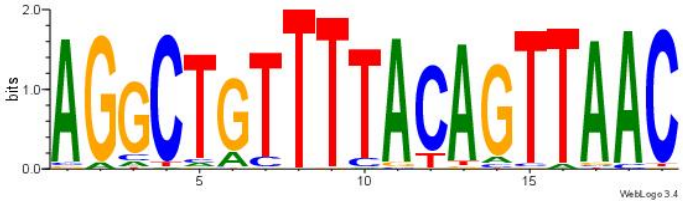

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.112618

Alignment:

```
AATGAKATCATGTCYTTTGC
----ATGTTGTAGCATGT--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

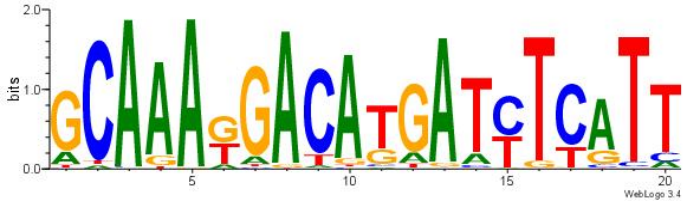

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

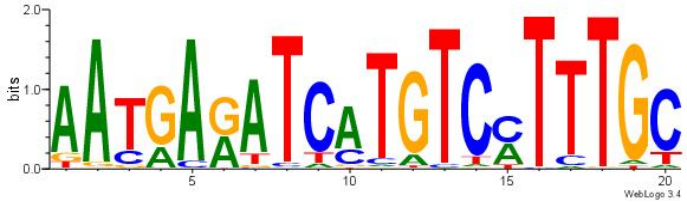

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.11275

Alignment:
AATGAGTTAAGACTTTG
-ACATGCTACAACAT--

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

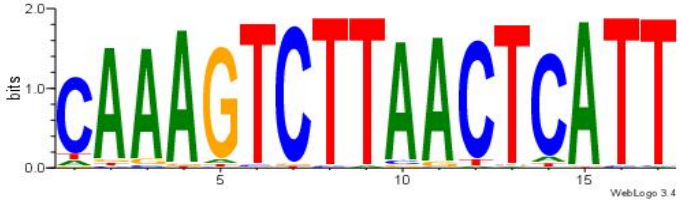

Dataset #: 1
Motif ID: 135
Motif name: Motif 135
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.112963

Alignment:
CTCTTGTTGCCCAG
ATGTTGTAGCATGT

Original motif Consensus sequence: CTCTTGTTGCCCAG

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

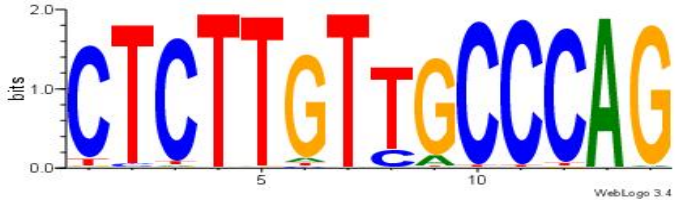

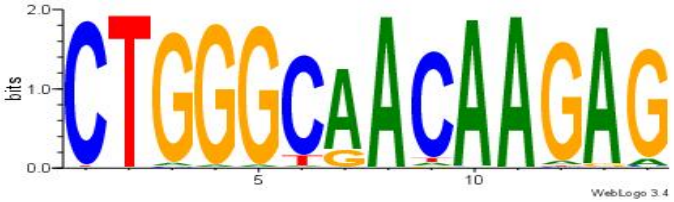

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.113115

Alignment:

```
ATAGGAATGCTTGTGATTTT
--ACATGCTACAACAT----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

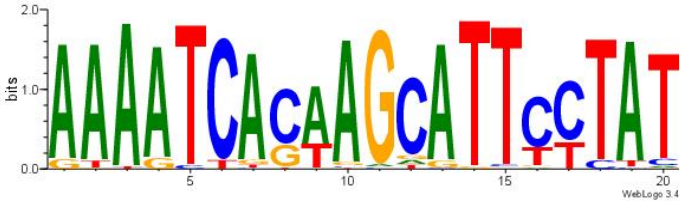

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

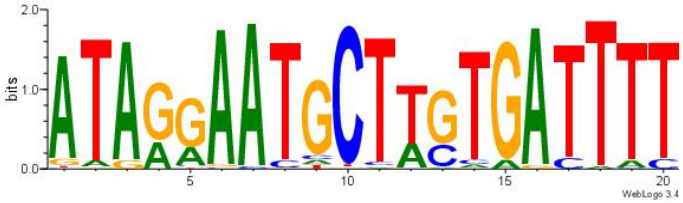

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.113121

Alignment:

```
CACCAGGAGATTATATCCCR
--ACATGCTACAACAT----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

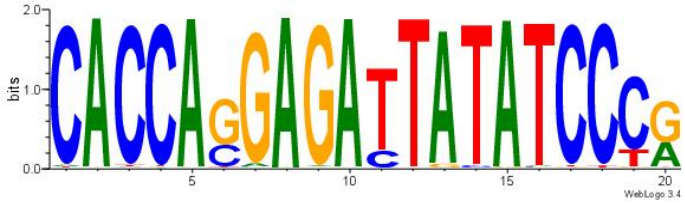

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

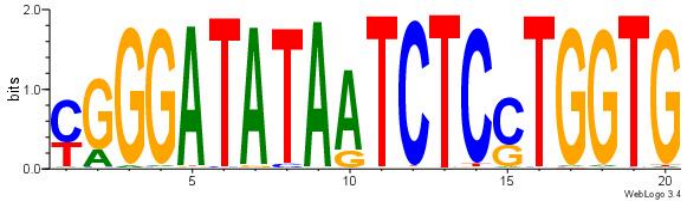

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.113155

Alignment:
CAAGCGCCAGCTCATGTC
---ACATGCTACAACAT-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

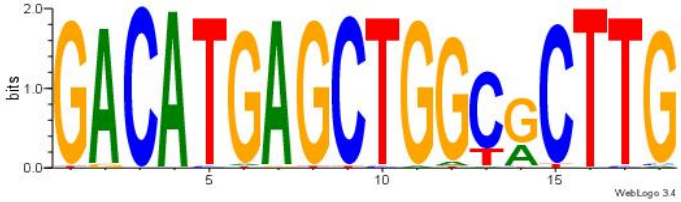

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

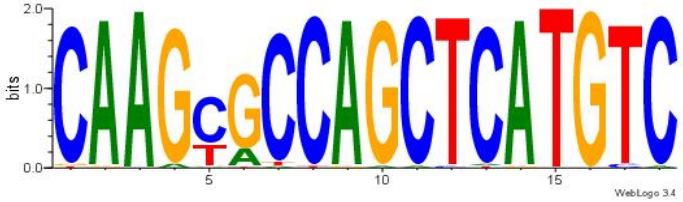

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 14
Similarity score: 0.113996

Alignment:
TCKMGCCACTGCACTCCAGC
------ACATGCTACAACAT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

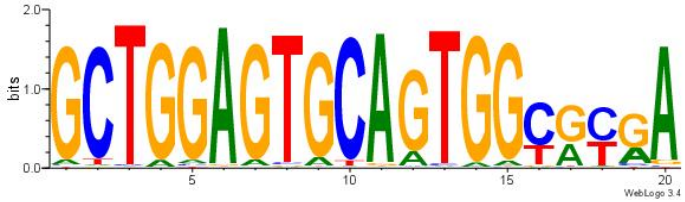

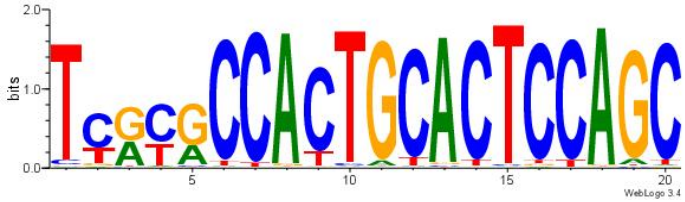

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.114039

Alignment:

```
CACTTTCCAGACTGGGCA
-ATGTTGTAGCATGT---
```

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

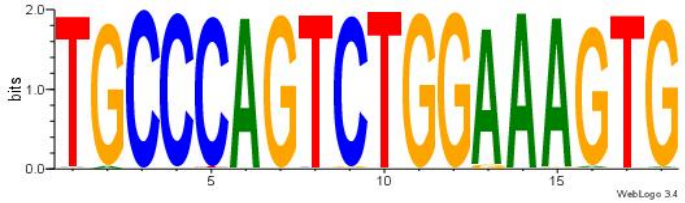

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

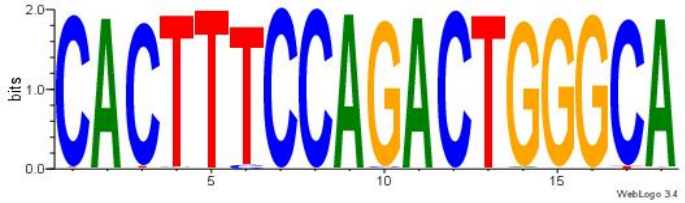

Dataset #:	1

Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.114153

Alignment:

```
TGTTATGCCTGAAAGT
ACATGCTACAACAT--
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

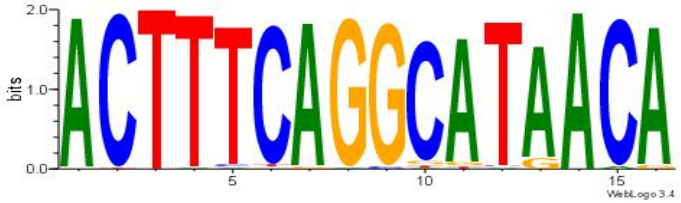

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

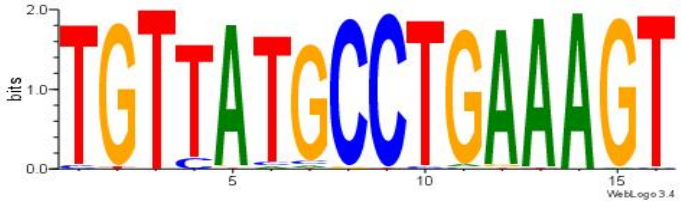

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.114169

Alignment:
CGTCGCTCACGCTGGGAGCT
ACATGCTACAACAT------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

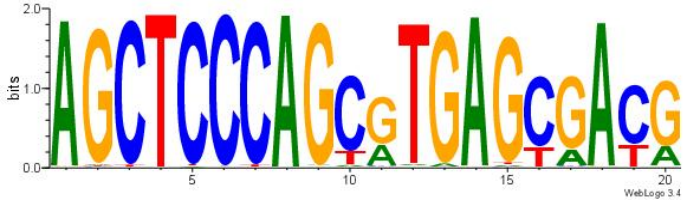

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

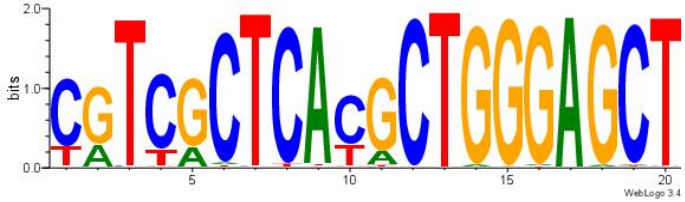

Dataset #: 1
Motif ID: 346
Motif name: Motif 346
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.114408

Alignment:
GAGCTTTAAGATTT
ATGTTGTAGCATGT

Original motif Consensus sequence: AAATCTTAAAGCTC

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

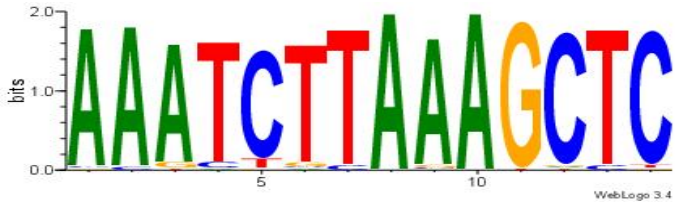

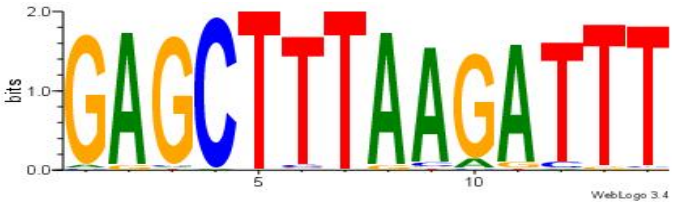

Dataset #: 1 Motif ID: 318 Motif name: Motif 318

Original motif Consensus sequence: CAGCCCCG

Reverse complement motif Consensus sequence: CGGGGCTG

Best Matches for Motif ID 318 (Highest to Lowest)

Dataset #:	1
Motif ID:	88
Motif name:	Motif 88
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.00509921

Alignment:

```
ACCGGGGCTGCA
--CGGGGCTG--
```

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

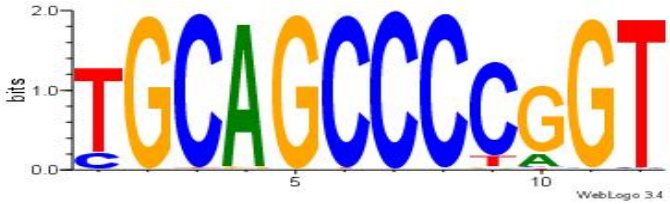

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0248687

Alignment:

```
GCCRGCCCTGCYGGCC
--CAGCCCCG------
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

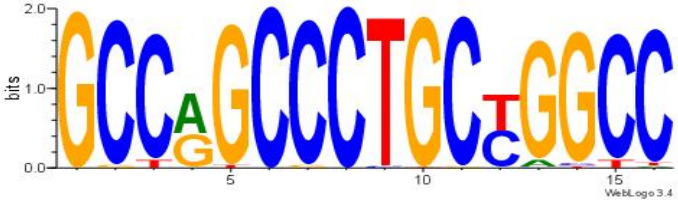

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

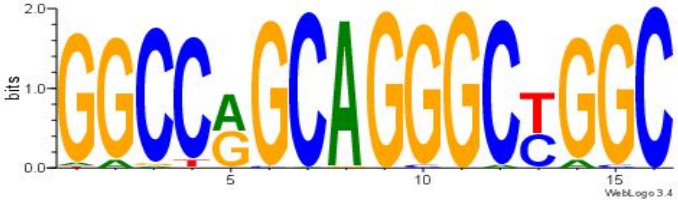

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.026456

Alignment:

```
CGAGCCCTGCCCCGCGG
------CAGCCCCG---
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

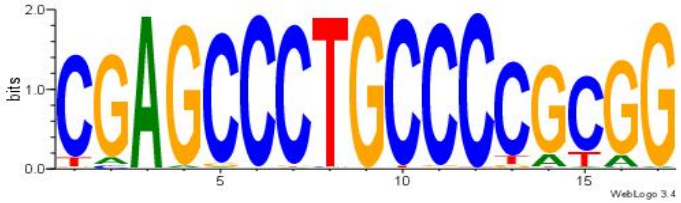

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

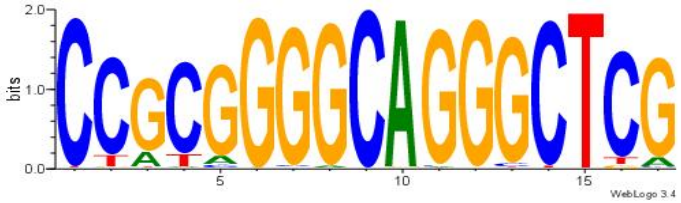

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12

Number of overlap: 8
Similarity score: 0.0266885

Alignment:
GGGGGCTGACCCCCCCACC
----------CGGGGCTG

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

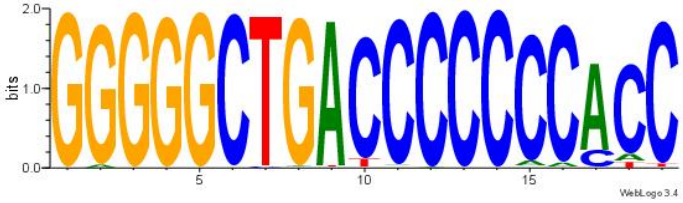

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

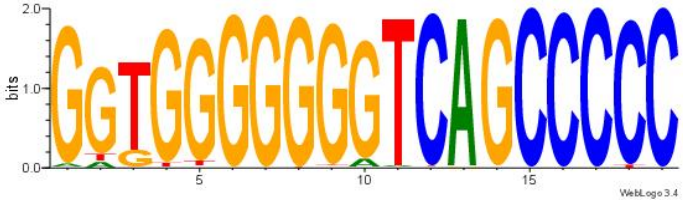

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0291045

Alignment:
CTTTCTGGGCTGGCCAAGG
----CGGGGCTG-------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

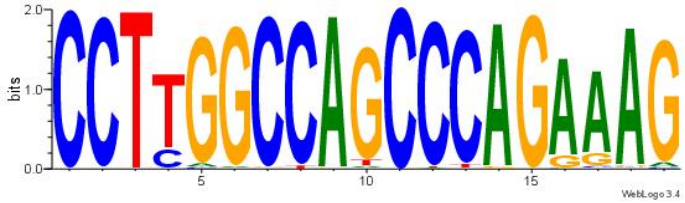

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

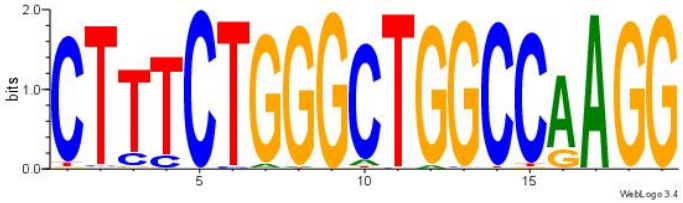

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0371097

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-----------CAGCCCCG-
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

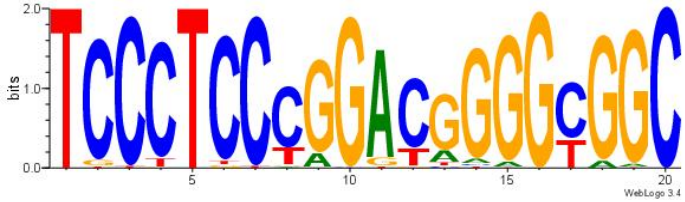

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

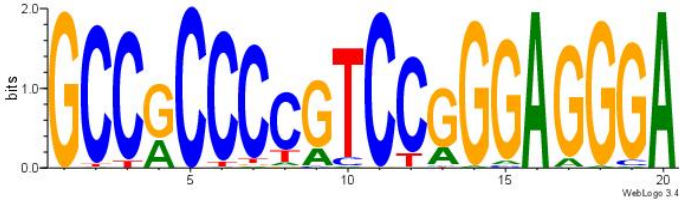

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0372385

Alignment:

```
CCGCACTCGGAGCRG
CGGGGCTG-------
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

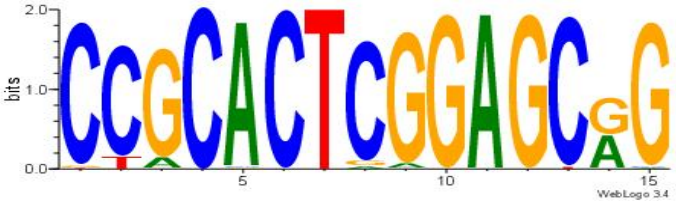

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

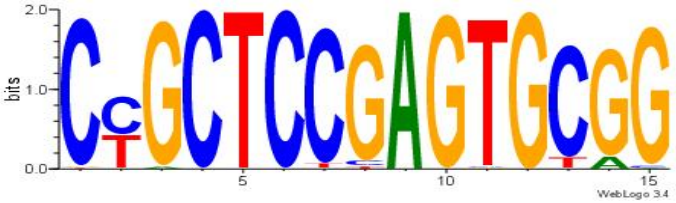

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	13

Number of overlap: 8
Similarity score: 0.0485096

Alignment:
CGGCGCTGMGCTCGATTTCT
CGGGGCTG----------

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

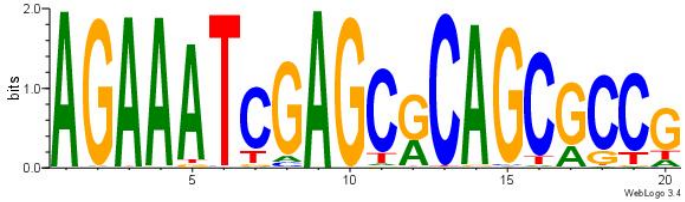

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

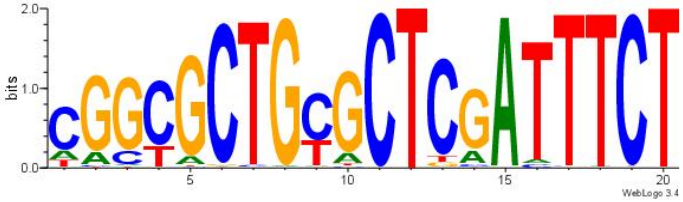

Dataset #: 1
Motif ID: 42
Motif name: Motif 42
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0500758

Alignment:
CTCTGCCCGGCCGC
--CAGCCCCG----

Original motif Consensus sequence: CTCTGCCCGGCCGC

Reverse complement motif Consensus sequence: GCGGCCGGGCAG

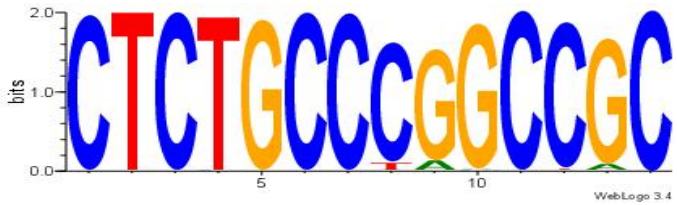

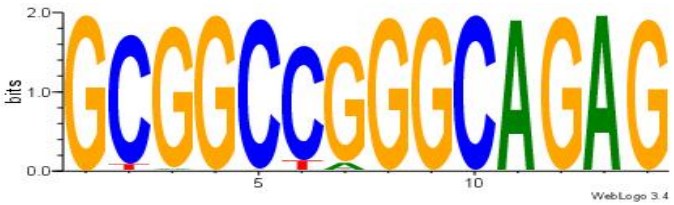

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0520849

Alignment:

```
AGGAACAGCTCCRGTCTAC
-----CAGCCCCG------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

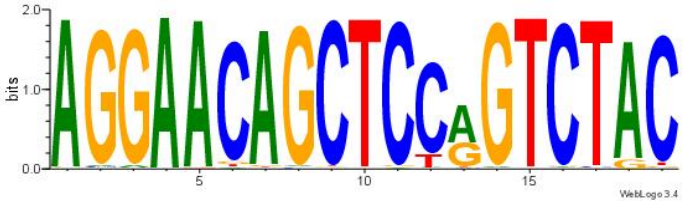

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

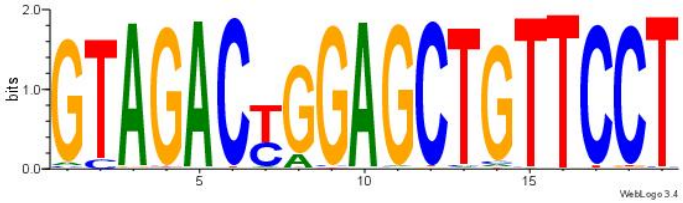

Dataset #: 1

Motif ID:	157
Motif name:	Motif 157
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0543988

Alignment:

```
GCGCACGGCGCGG
CGGGGCTG-----
```

Original motif Consensus sequence: GCGCACGGCGCGG

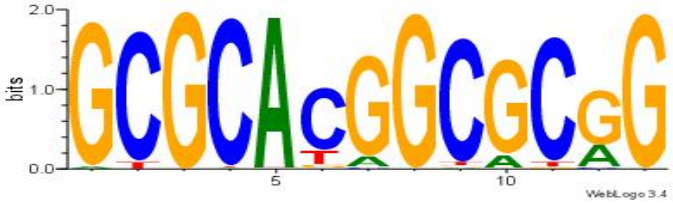

Reverse complement motif Consensus sequence: CCGCGCCGTGCGC

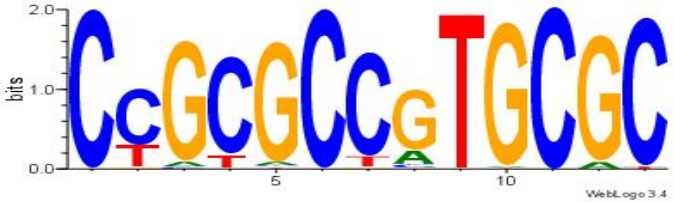

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0552667

Alignment:
CGCCCATCGTCTGGGATGT
----------CGGGGCTG-

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

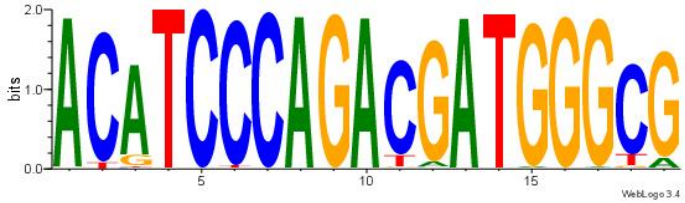

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

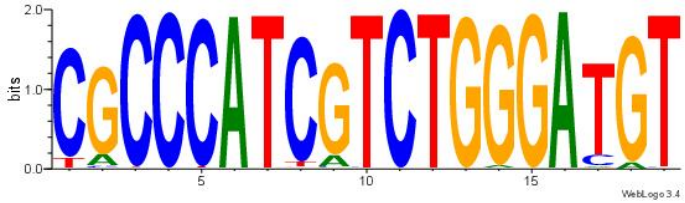

Dataset #:	1
Motif ID:	263
Motif name:	Motif 263
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.055271

Alignment:
CCCAGCTCTGCC
--CAGCCCCG--

Original motif Consensus sequence: CCCAGCTCTGCC

Reverse complement motif Consensus sequence: GGCAGAGCTGGG

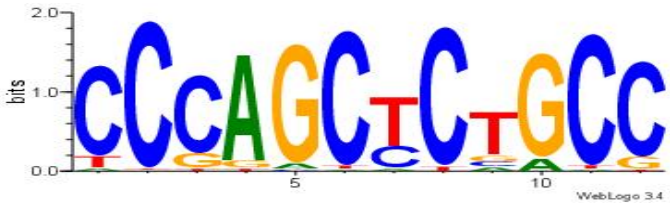

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0559925

Alignment:

```
CCCCGGGCAGTGAGGG
--CGGGGCTG------
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

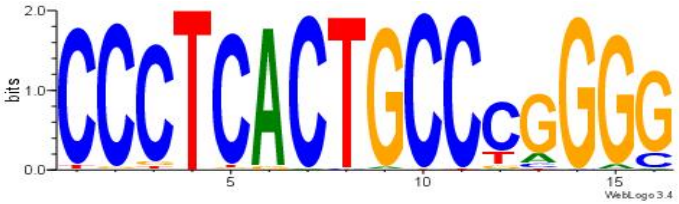

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

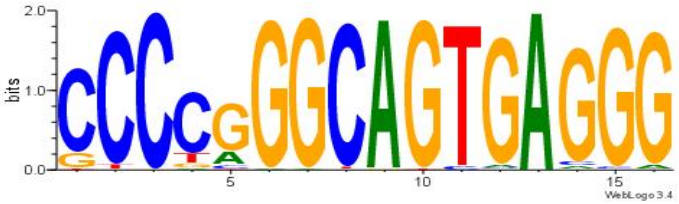

Dataset #: 1

Motif ID:	59
Motif name:	Motif 59
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0575266

Alignment:

```
CKCGTCSGGGAGG
-----CGGGGCTG
```

Original motif Consensus sequence: CCTCCCSGACGRG

Reverse complement motif Consensus sequence: CKCGTCSGGGAGG

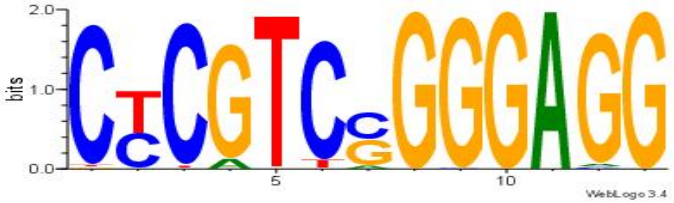

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0576931

Alignment:
GACTGGCAGGCAGCTCCACC
----------CAGCCCCG--

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

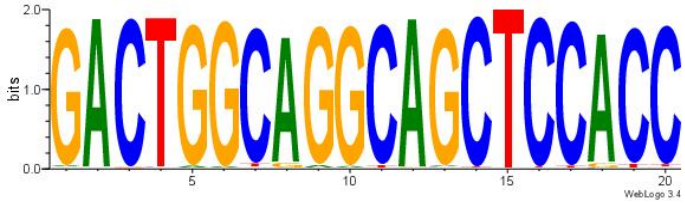

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

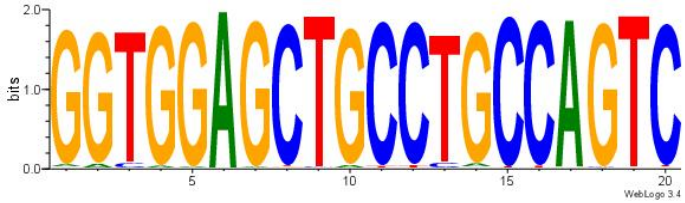

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0594936

Alignment:
GCTGGCCCGCAAGCGCCGCG
-CAGCCCCG----------

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

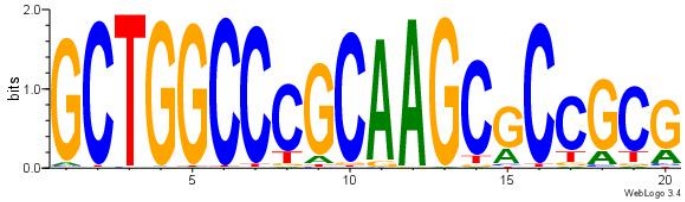

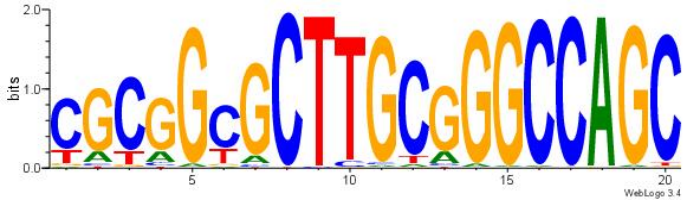

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	13
Number of overlap:	8
Similarity score:	0.0597138

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
------------CGGGGCTG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

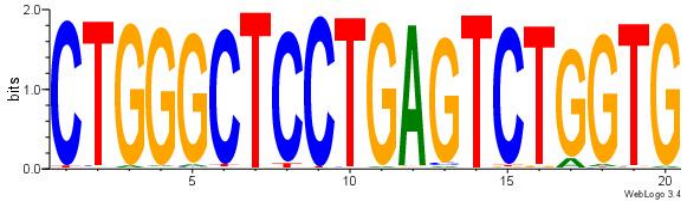

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

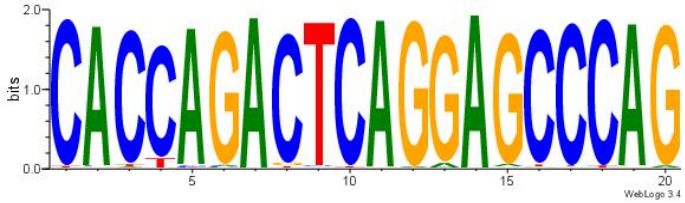

Dataset #: 1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0614353

Alignment:

```
TGGGGCTCCAGATG
CGGGGCTG------
```

Original motif Consensus sequence: CATCTGGAGCCCCA

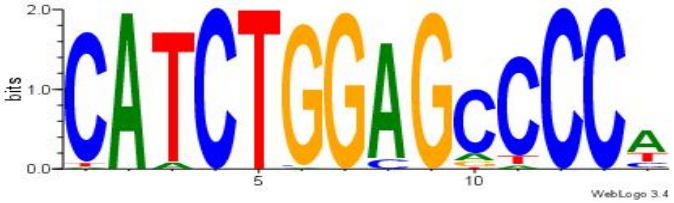

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

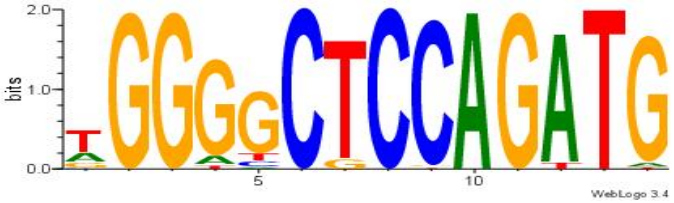

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.061558

Alignment:
GACCTGCAGCCCGCCATG
----CAGCCCCG------

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

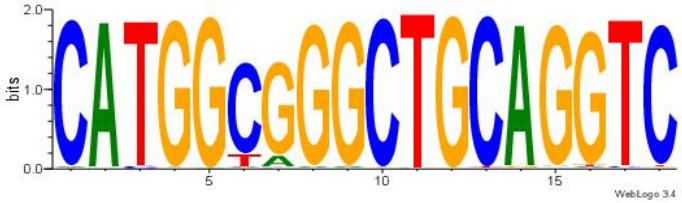

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

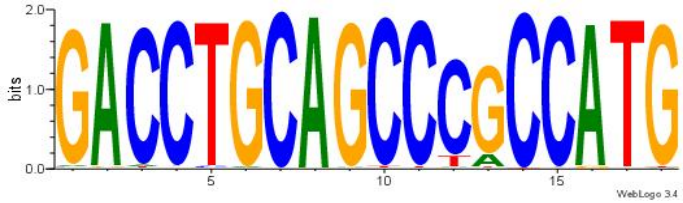

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0616293

Alignment:
GGGTGCAGGMGGGCTGAGT
--------CGGGGCTG---

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

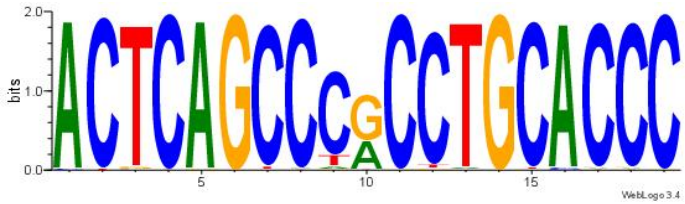

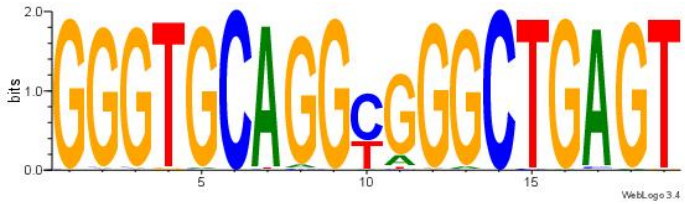

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0618217

Alignment:

```
AGGCGGCTGGGAGG
-----CGGGGCTG-
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

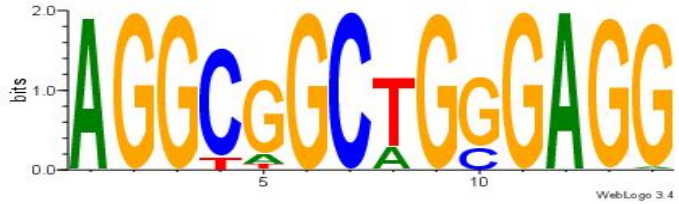

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	5

Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0623032

Alignment:

```
CCTCRGCCTCC
---CAGCCCCG
```

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0635266

Alignment:
CAGGCGGCTGGGAG
----CGGGGCTG--

Original motif Consensus sequence: CAGGCGGCTGGGAG

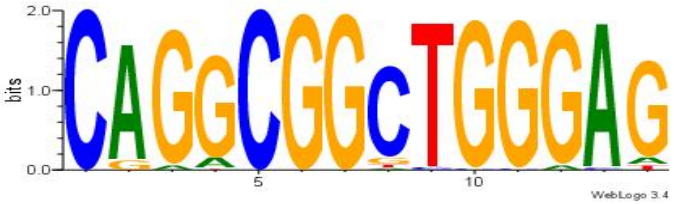

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

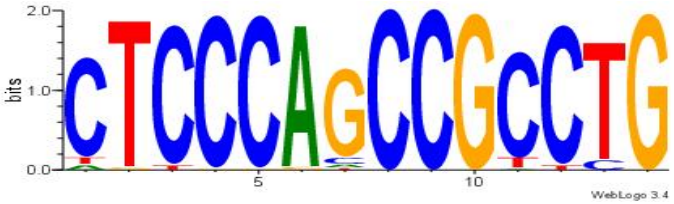

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0641858

Alignment:
AGGAGCGCCTCTKCCCGGC
----------CAGCCCCG-

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

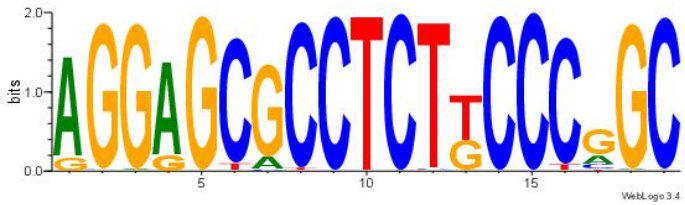

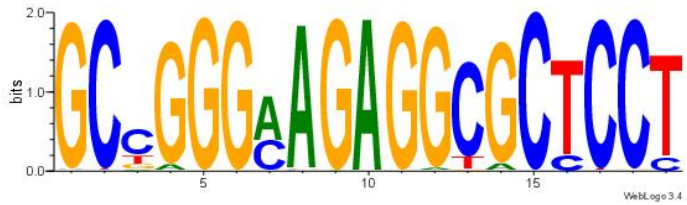

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0643275

Alignment:

```
GCTTAGCACCYGGGCCAGC
-CGGGGCTG----------
```

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

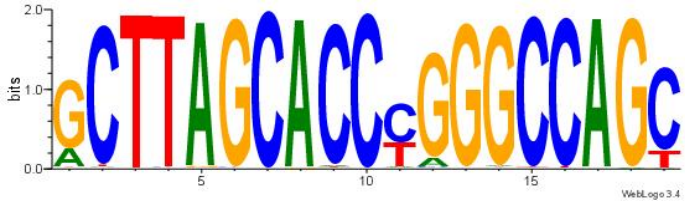

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

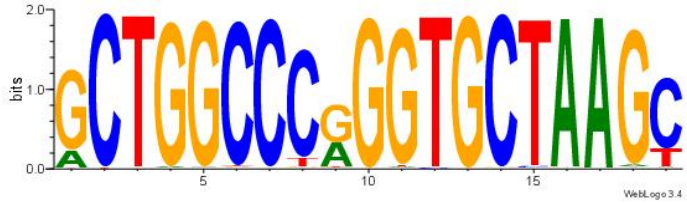

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0654748

Alignment:

```
AATCAACCCTGGYRATCAAT
---CAGCCCCG---------
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

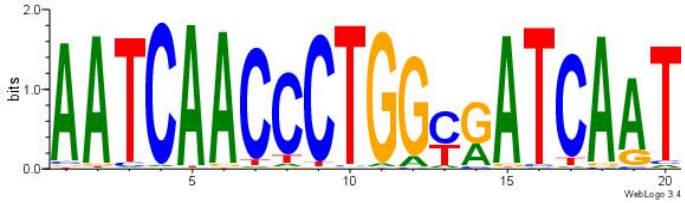

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

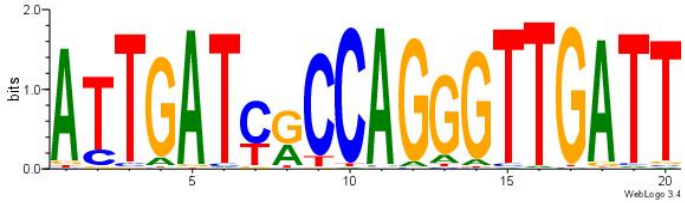

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	8

Similarity score: 0.0659941

Alignment:
GCGCTCKTCGGGGAGGCTCG
--------CGGGGCTG----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

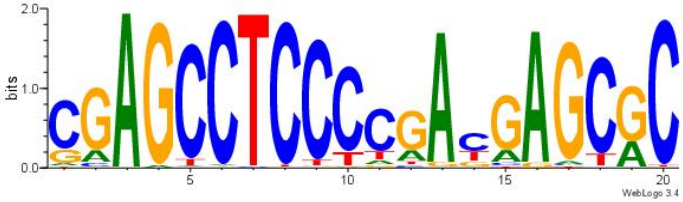

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

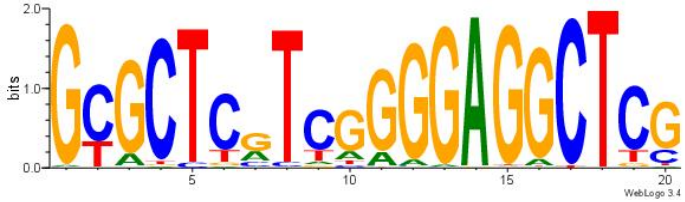

Dataset #: 1
Motif ID: 125
Motif name: Motif 125
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 8
Similarity score: 0.0673212

Alignment:
GCGGCTGGCCGGGCG
----CGGGGCTG---

Original motif Consensus sequence: CGCCCGGCCAGCCGC

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

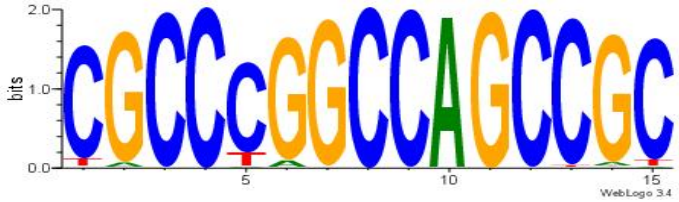

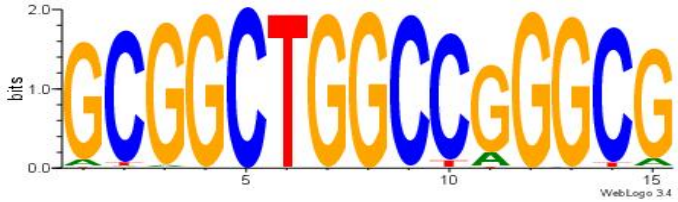

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0682715

Alignment:

```
CATTCTGGGGTCTGGAGGAY
------CGGGGCTG------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

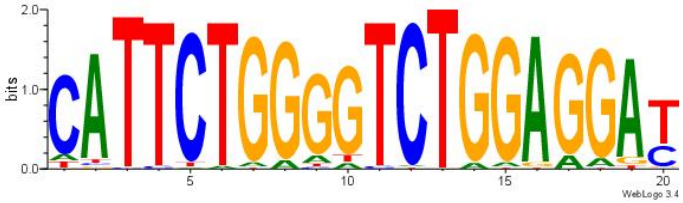

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

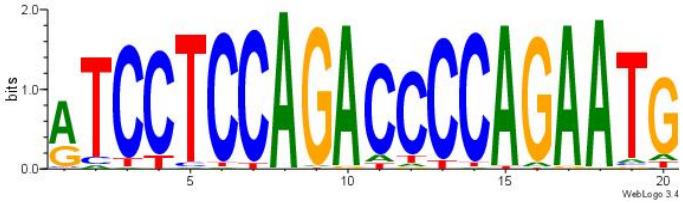

Dataset #: 1

Motif ID:	209
Motif name:	Motif 209
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0683465

Alignment:

```
ATGGGCTGACAG
CGGGGCTG----
```

Original motif Consensus sequence: CTGTCAGCCCAT

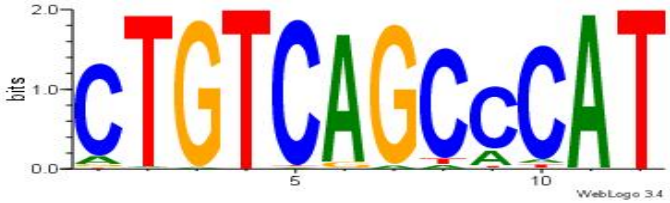

Reverse complement motif Consensus sequence: ATGGGCTGACAG

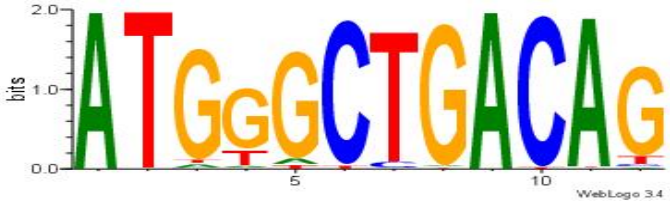

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0685625

Alignment:
AGGASCSTCYSWGCCMGGY
----------CAGCCCCG-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

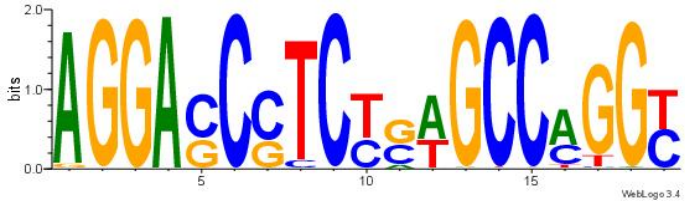

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

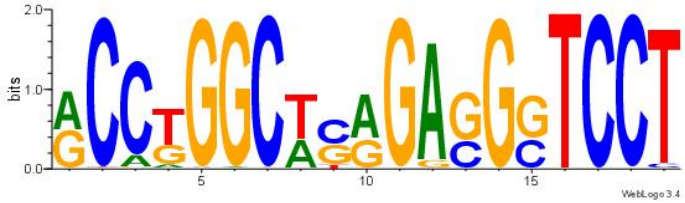

Dataset #:	1
Motif ID:	46
Motif name:	Motif 46
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0689201

Alignment:
CCCCWCCCCCA
---CAGCCCCG

Original motif Consensus sequence: CCCCWCCCCCA

Reverse complement motif Consensus sequence: TGGGGGWGGGG

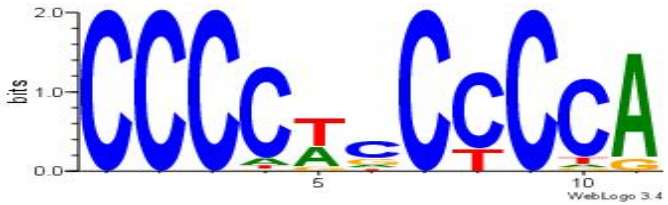

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8
Similarity score:	0.0708277

Alignment:

```
AGACCAGCCTGGCCAAC
----CAGCCCCG-----
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

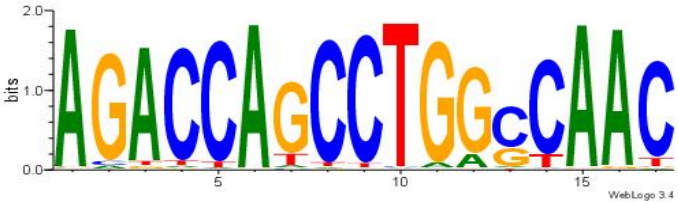

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

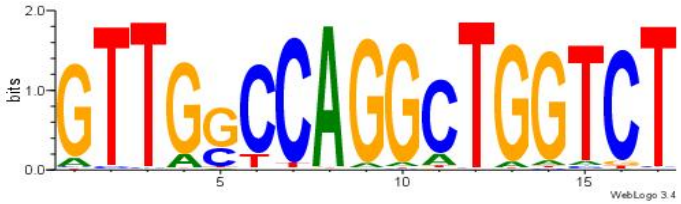

Dataset #: 1

Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0716617

Alignment:

```
CGCCGCCGCCGC
----CGGGGCTG
```

Original motif Consensus sequence: CGCCGCCGCCGC

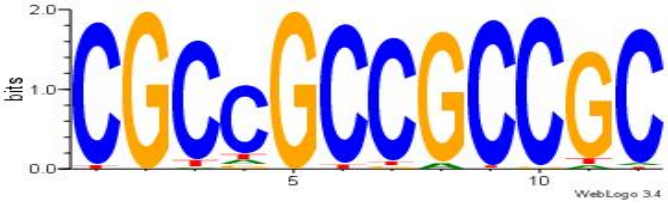

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

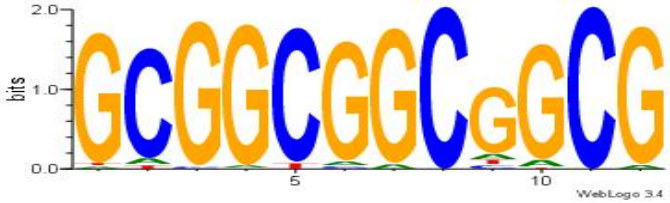

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0724381

Alignment:
KCCGGGCCTTAGCTGCCTTC
--CGGGGCTG----------

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

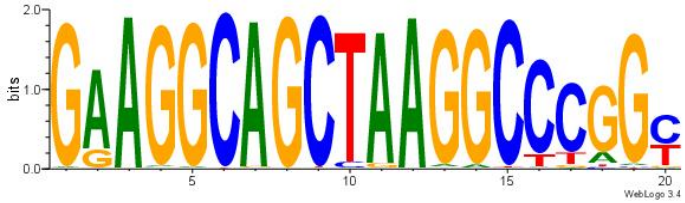

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

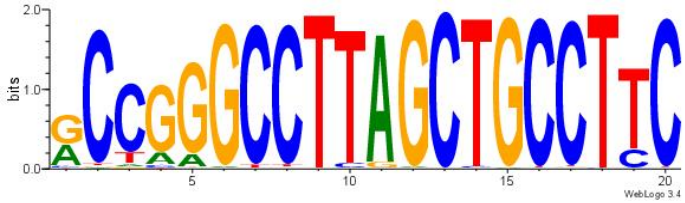

Dataset #:	1
Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.072827

Alignment:
AGGAGRCMCTCTGCCTGGC
-CAGCCCCG----------

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

Reverse complement motif Consensus sequence:
AGGAGRCMCTCTGCCTGGC

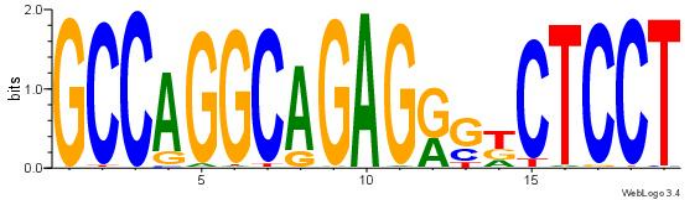

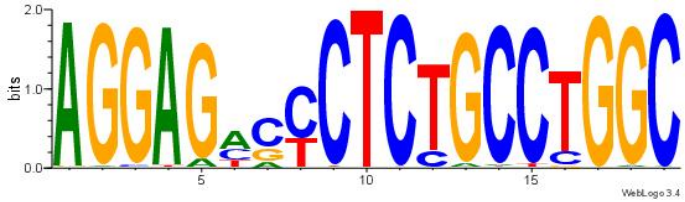

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0731616

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
---------CAGCCCCG---
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

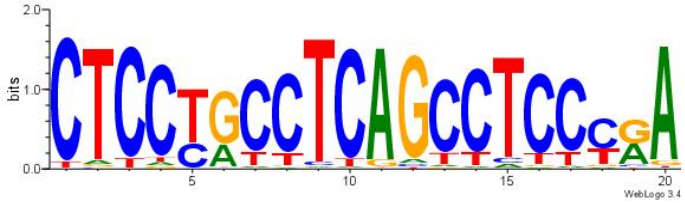

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

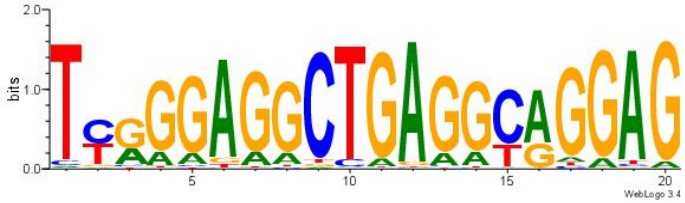

Dataset #:	1

Motif ID:	156
Motif name:	Motif 156
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0751971

Alignment:

```
GTCTGGGAAGTG
--CGGGGCTG--
```

Original motif Consensus sequence: CACTTCCCAGAC

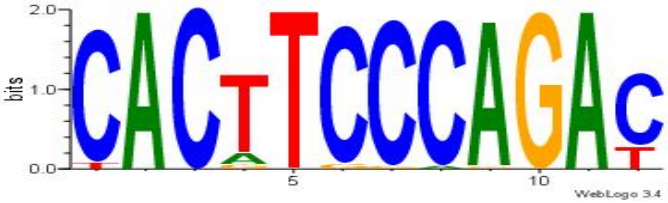

Reverse complement motif Consensus sequence: GTCTGGGAAGTG

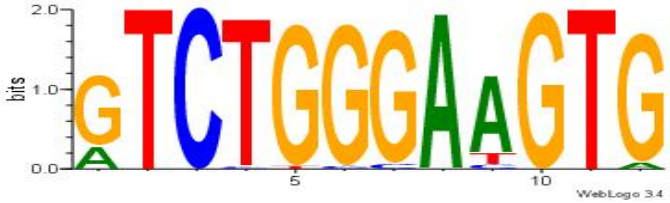

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0755387

Alignment:
ACCCYGTCTGGGAGGTG
-------CGGGGCTG--

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

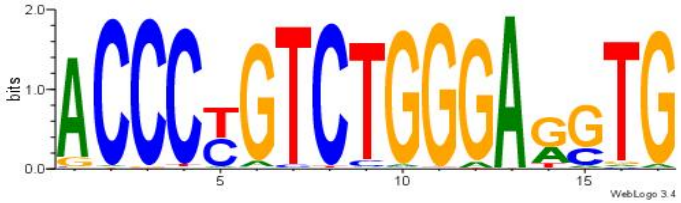

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

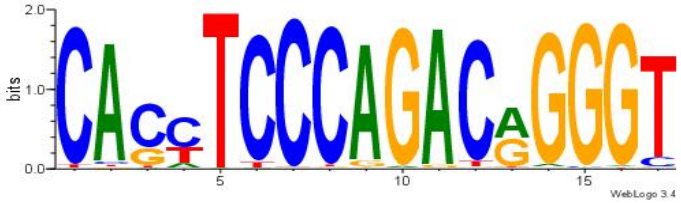

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0755788

Alignment:
AAGCTCGAACTGGGTGGAGC
---------CGGGGCTG---

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

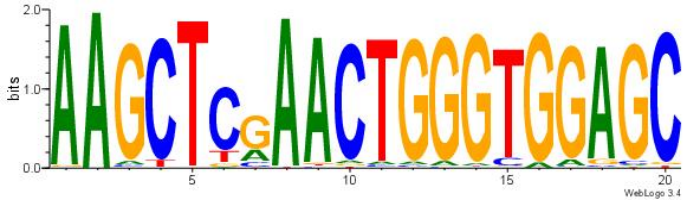

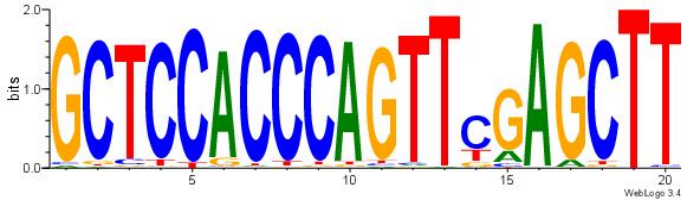

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0756196

Alignment:

```
GCACAGGAGCGG
----CGGGGCTG
```

Original motif Consensus sequence: CCGCTCCTGTGC

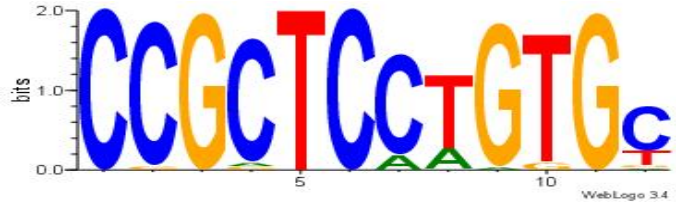

Reverse complement motif Consensus sequence: GCACAGGAGCGG

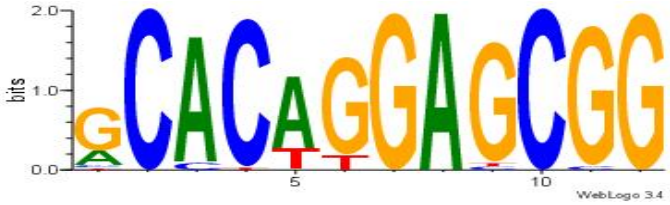

Dataset #:	1
Motif ID:	177

Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.0766252

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
----------CGGGGCTG--
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

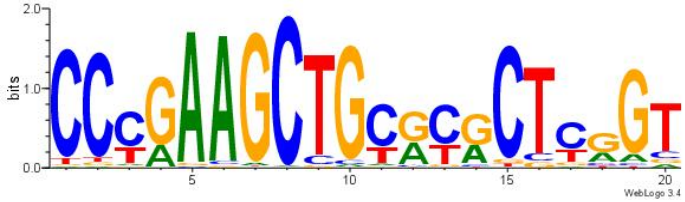

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

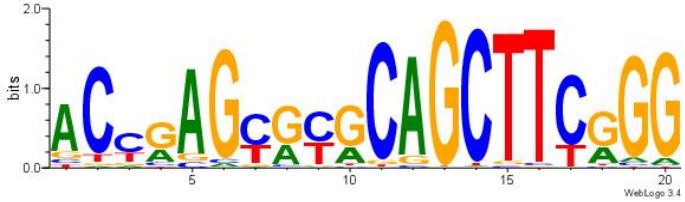

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0774587

Alignment:
CCCACGCCCACCCGGAACT
----CAGCCCCG-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

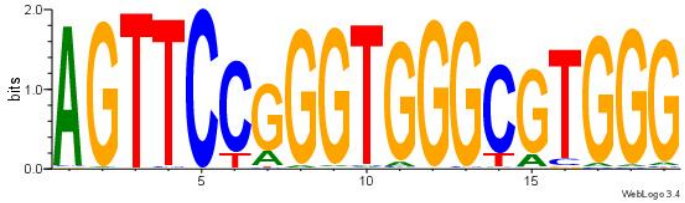

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

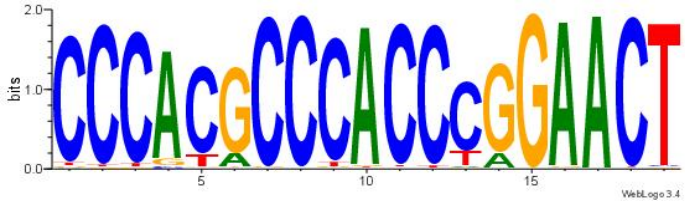

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0776682

Alignment:
AGGAGCCCCTCHGCCCR
--CAGCCCCG-------

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

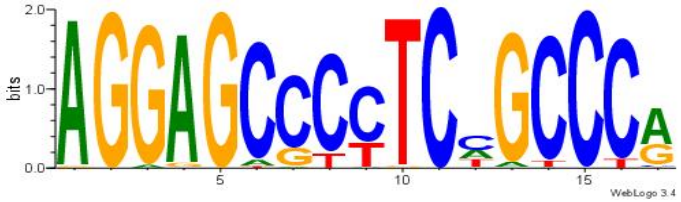

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0777228

Alignment:

```
RRCCGCTCCATG
--CAGCCCCG--
```

Original motif Consensus sequence: CATGGAGCGGKK

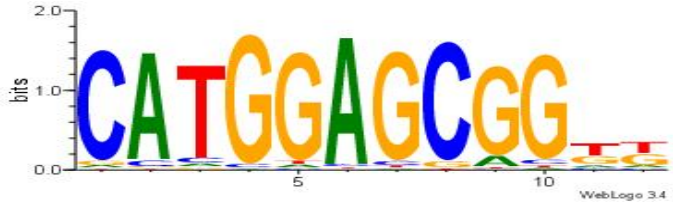

Reverse complement motif Consensus sequence: RRCCGCTCCATG

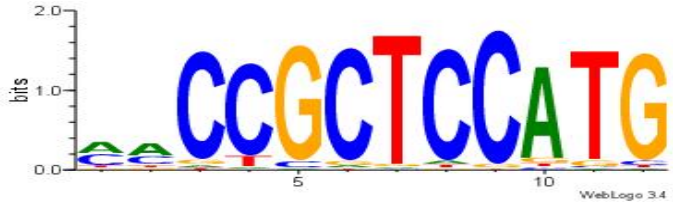

Dataset #:	1
Motif ID:	197

Motif name:	Motif 197
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.077766

Alignment:

```
GCTGGCCGGGCG
-CGGGGCTG---
```

Original motif Consensus sequence: CGCCCGGCCAGC

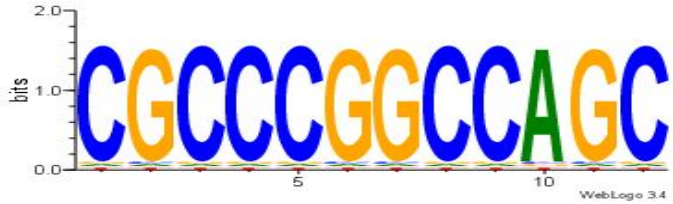

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

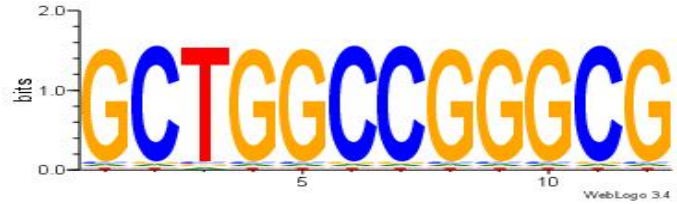

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0781026

Alignment:
AAGCTGAGGGAGCCGGCTCC
-----CGGGGCTG-------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

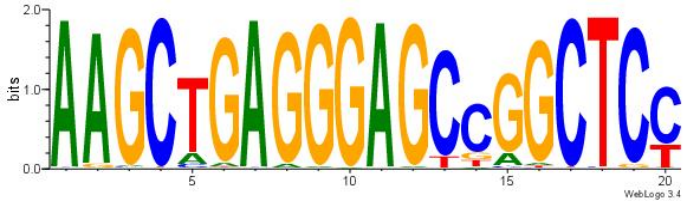

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

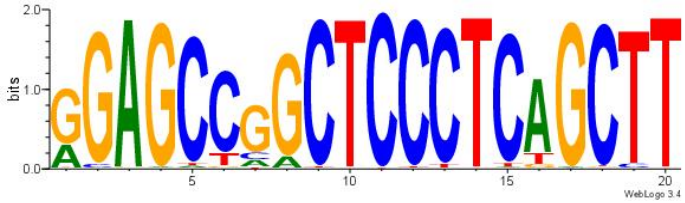

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0782702

Alignment:
GGCAATGCCTCGCCCTGCTT
---CAGCCCCG---------

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

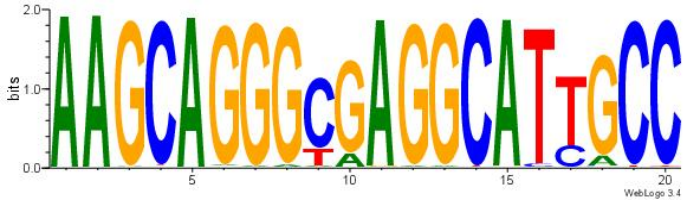

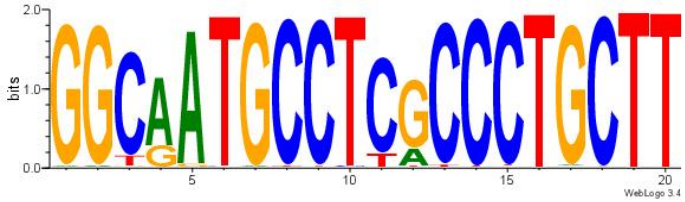

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0785007

Alignment:

```
TCAATGGTGCCCAG
CAGCCCCG------
```

Original motif Consensus sequence: CTGGGCACCATTGA

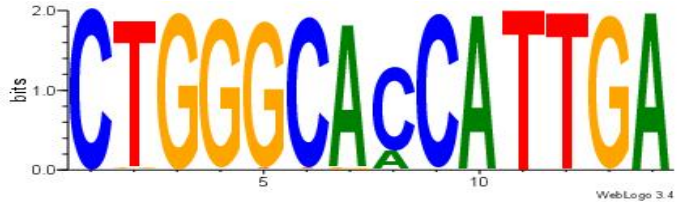

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

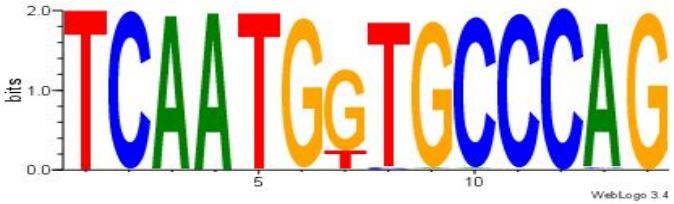

Dataset #: 1 Motif ID: 319 Motif name: Motif 319

Original motif Consensus sequence: TAGTTTTTAACAA

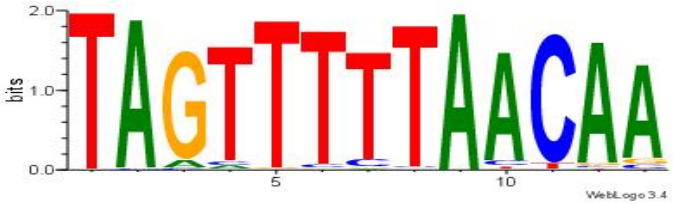

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

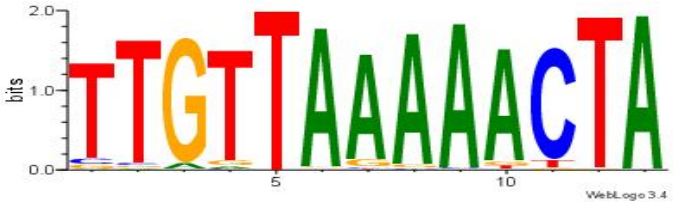

Best Matches for Motif ID 319 (Highest to Lowest)

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0753436

Alignment:

```
CATTAGATTCTCATAGGA
---TAGTTTTTAACAA--
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

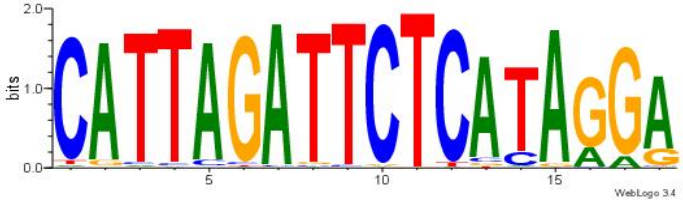

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

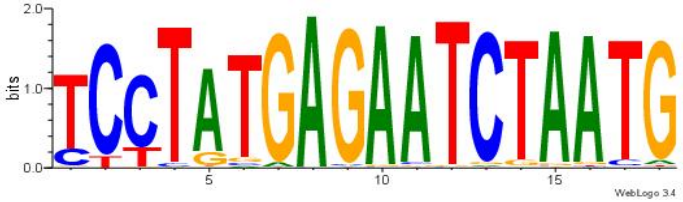

Dataset #:	1
Motif ID:	243
Motif name:	Motif 243
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0843202

Alignment:

```
TTGAGAACCACTG
TTGTTAAAAACTA
```

Original motif Consensus sequence: CAGTGGTTCTCAA

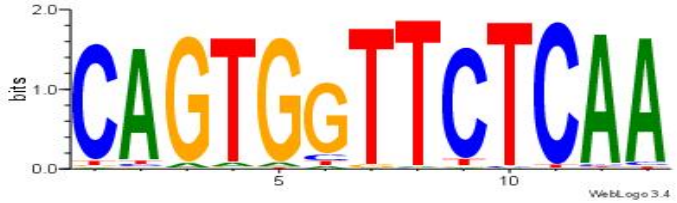

Reverse complement motif Consensus sequence: TTGAGAACCACTG

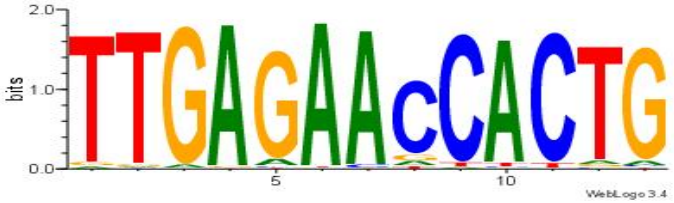

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.084899

Alignment:
CCCTGCTAGAACCTCCAA
---TTGTTAAAAACTA--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

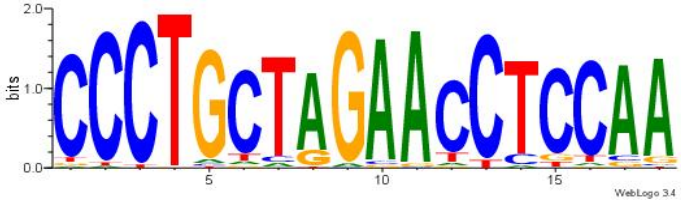

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

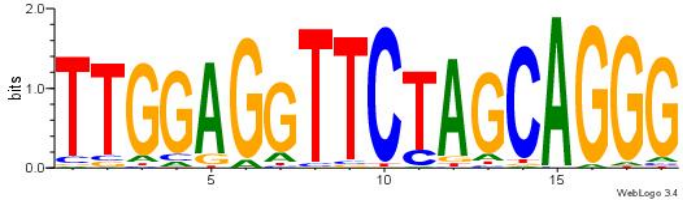

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0861013

Alignment:
TWTACCTATGTAACAAACCT
-------TTGTTAAAAACTA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

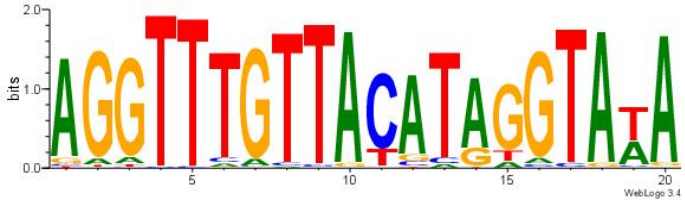

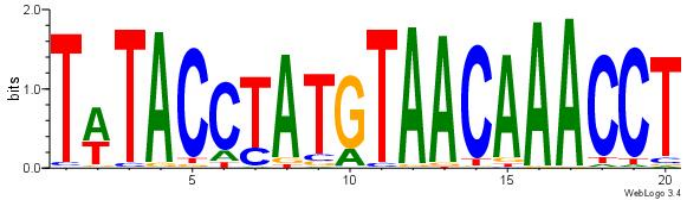

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.08657

Alignment:

```
AAAGCTGGAGCTATTATCTA
-------TAGTTTTTAACAA
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

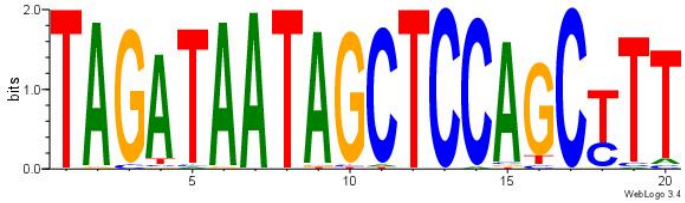

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

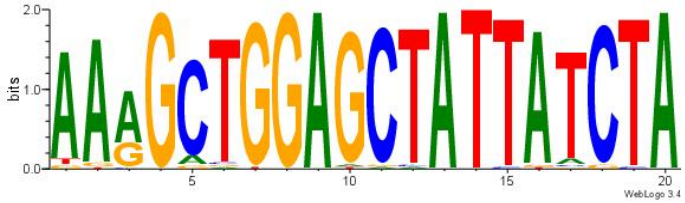

Dataset #:	1

Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0894436

Alignment:

```
AGTTCTTAAAGATGGT
-TTGTTAAAAACTA--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

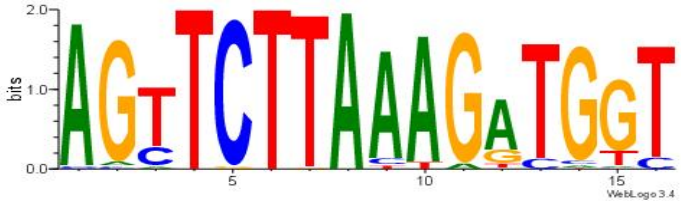

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

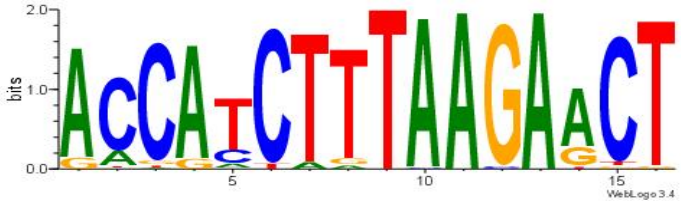

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.0915665

Alignment:
CCTAGATTTCAGARGATGT
--TAGTTTTTAACAA----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

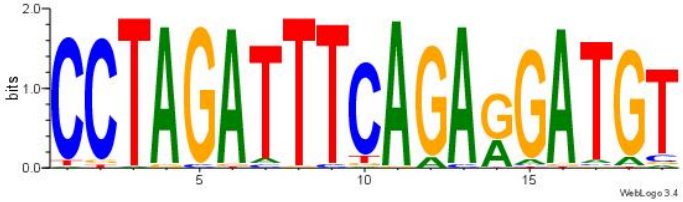

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

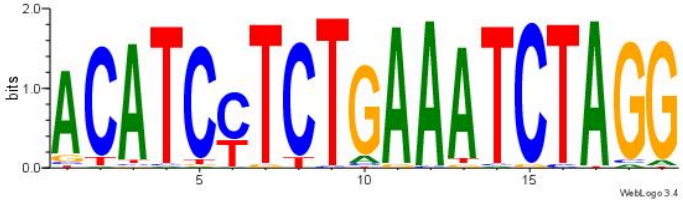

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.0921191

Alignment:
ATGGAATAYTATTCAGCCAT
------TAGTTTTTAACAA-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

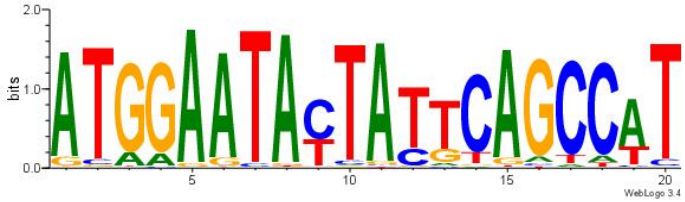

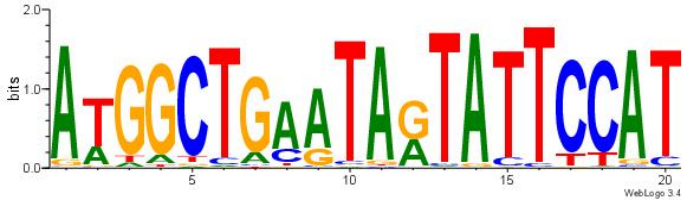

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0927033

Alignment:

```
AGCAGYTTGGAAACACT
--TAGTTTTTAACAA--
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

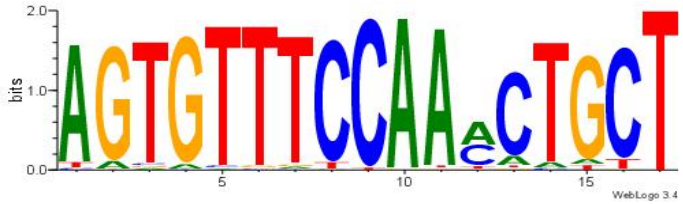

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

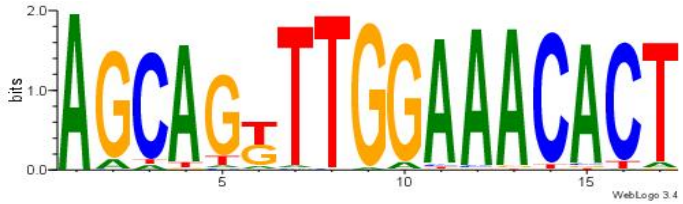

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0929088

Alignment:

```
ATGTAACCAAAYACCACCTG
TTGTTAAAAACTA-------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

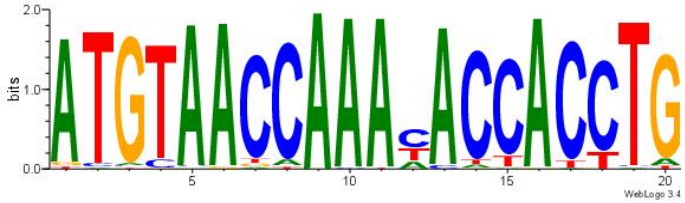

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

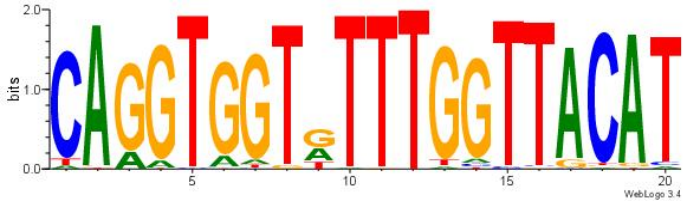

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.0947944

Alignment:
AGGCTGTTTTACAGTTAAC
----TTGTTAAAAACTA--

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

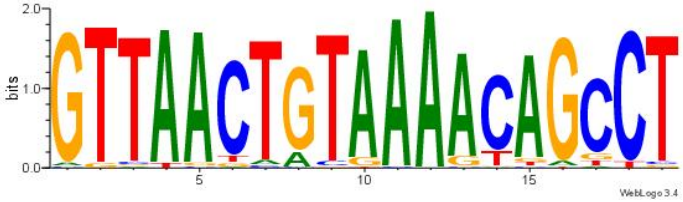

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

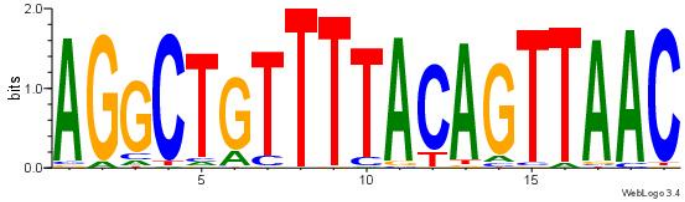

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.09635

Alignment:
GCAGCAMTATTCACAATAG
---TAGTTTTTAACAA---

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

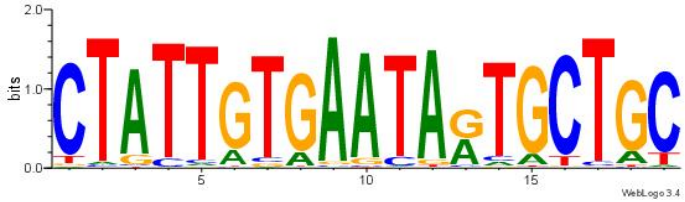

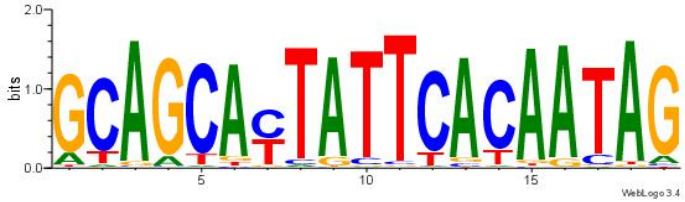

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0970133

Alignment:

```
CMCAGTTCACAATAGGGTT
----TAGTTTTTAACAA--
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

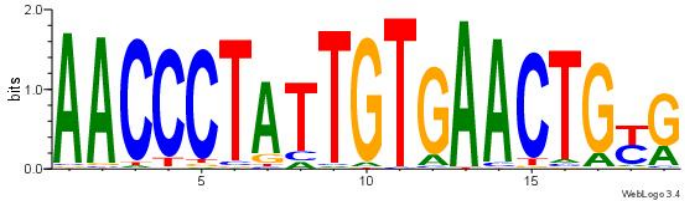

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

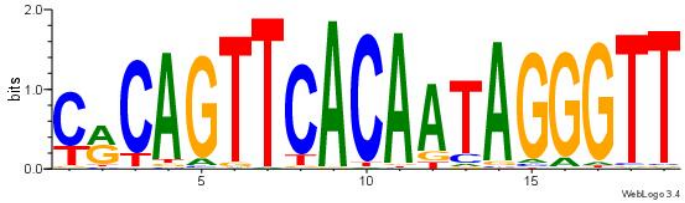

Dataset #: 1

Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0970807

Alignment:

```
TTTGTACCCATTA
TTGTTAAAAACTA
```

Original motif Consensus sequence: TAATGGGTACAAA

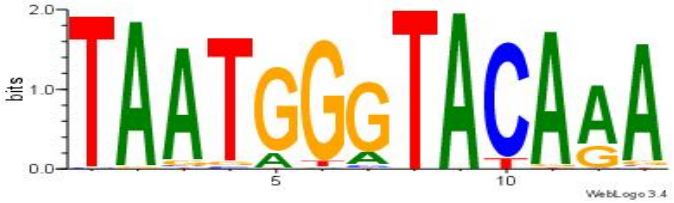

Reverse complement motif Consensus sequence: TTTGTACCCATTA

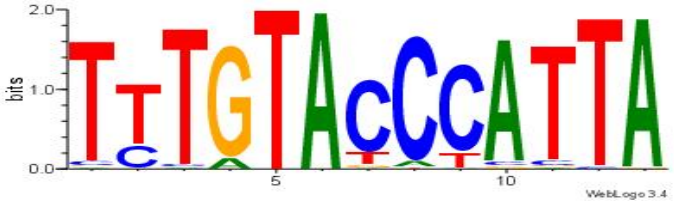

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0975291

Alignment:
VMATTTAKTGAGCACCTACT
-----TTGTTAAAAACTA--

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

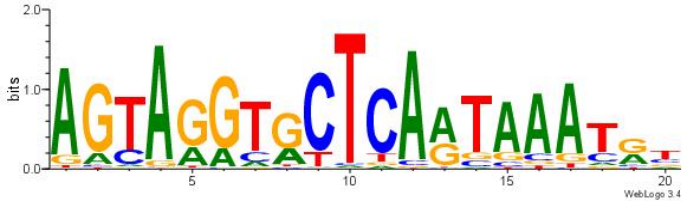

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

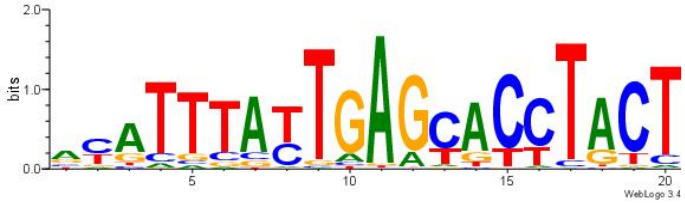

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0982399

Alignment:
GTCTCWAMAAAAAAWAMAAA
-------TTGTTAAAAACTA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

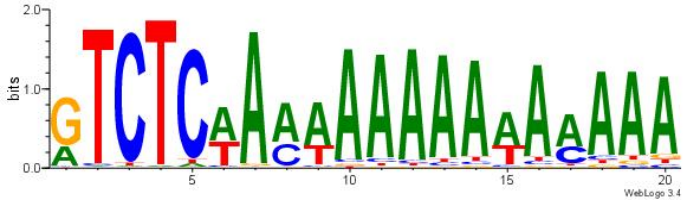

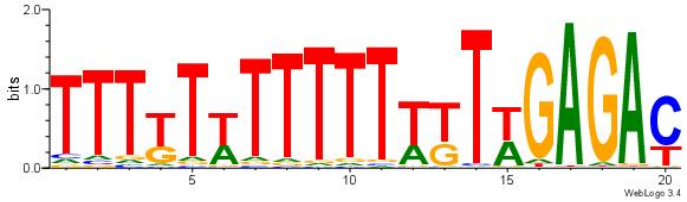

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0997007

Alignment:

```
MGGGATATAATCTCCTGGTG
-TTGTTAAAAACTA------
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

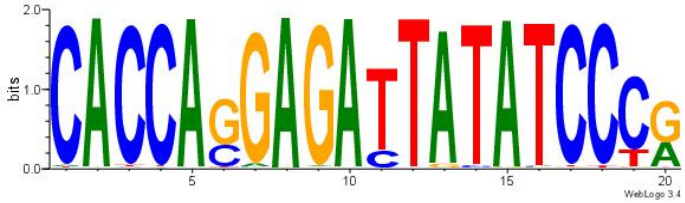

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

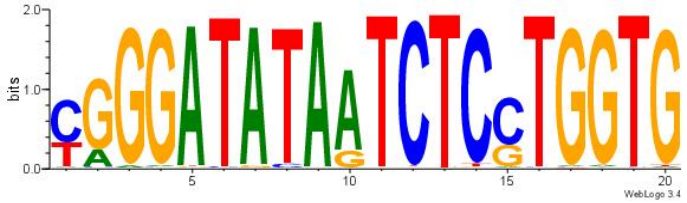

Dataset #:	1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.100549

Alignment:

```
CAAAGTCTTAACTCATT
---TAGTTTTTAACAA-
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

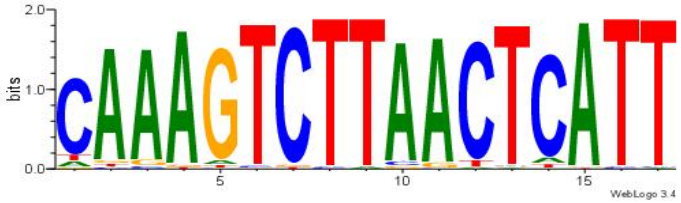

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.10056

Alignment:
GACAGGAGATTAACACTGAG
-----TTGTTAAAAACTA--

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

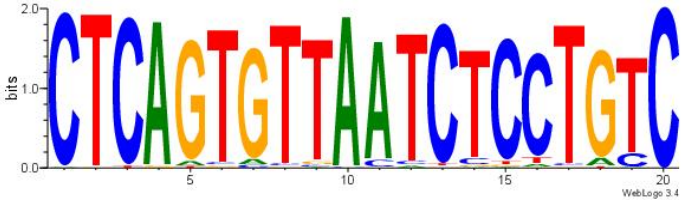

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

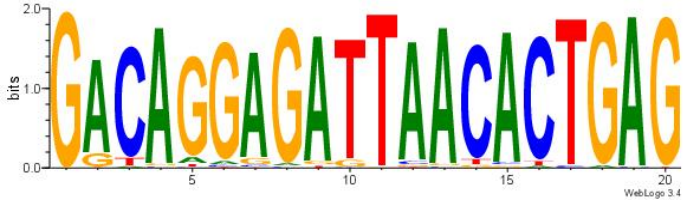

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.100581

Alignment:
TGTAKTCCCAGCTAC
-TTGTTAAAAACTA-

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

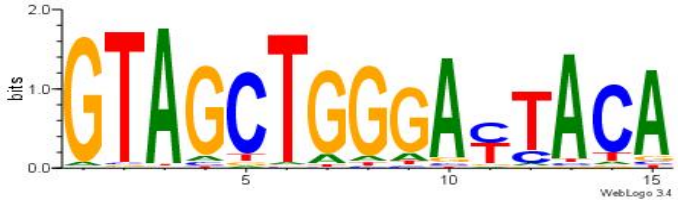

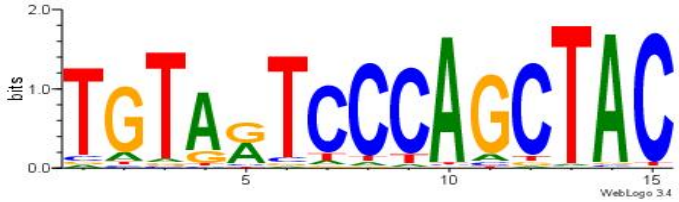

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.101035

Alignment:

```
TCCAAATGGGAGAAATTGGC
--TTGTTAAAAACTA-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

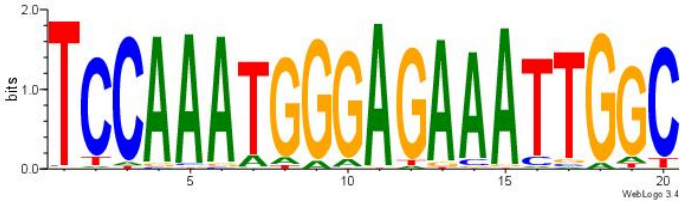

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

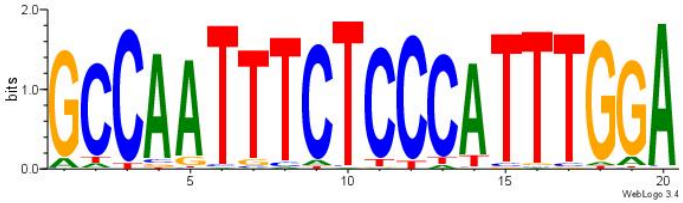

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.101124

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-----TAGTTTTTAACAA--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

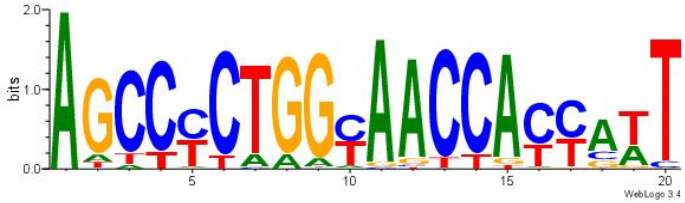

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

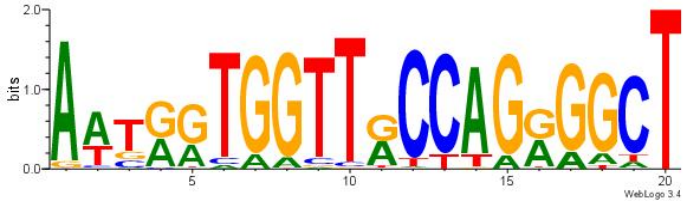

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.101617

Alignment:
ATTGGTGTATTTACAATCCC
TTGTTAAAAACTA-------

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

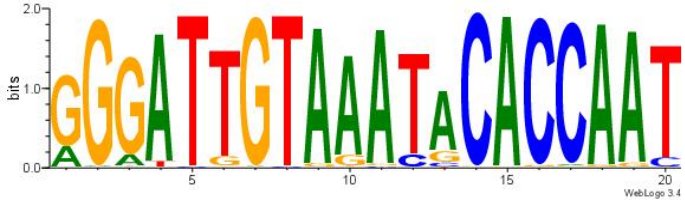

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.101687

Alignment:
TAGTGGTGATTTSTGAGAT
TAGTTTTTAACAA------

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

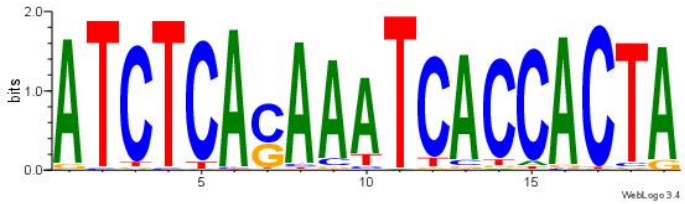

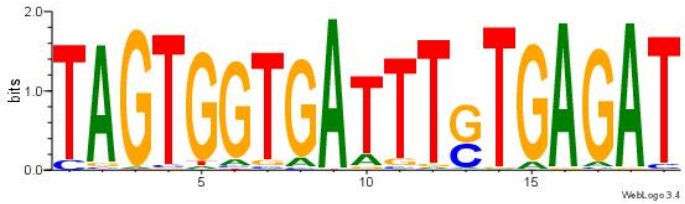

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.1019

Alignment:

```
CTCATTTAATCCTCACAAC
-----TTGTTAAAAACTA-
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

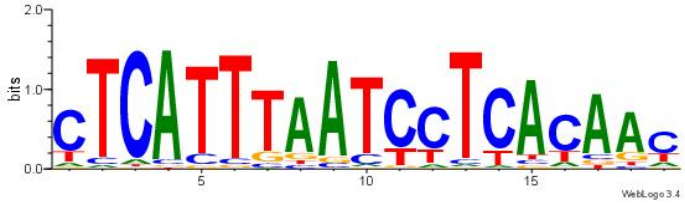

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

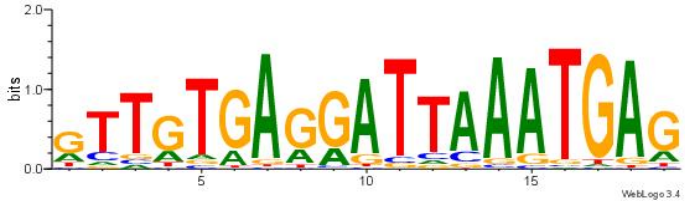

Dataset #: 1

Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.102801

Alignment:

```
GCCGTTTKTTAAGCCCGTY
--TAGTTTTTAACAA----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

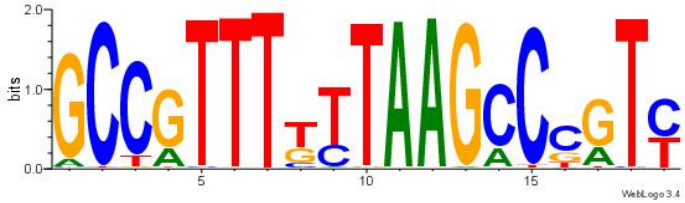

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

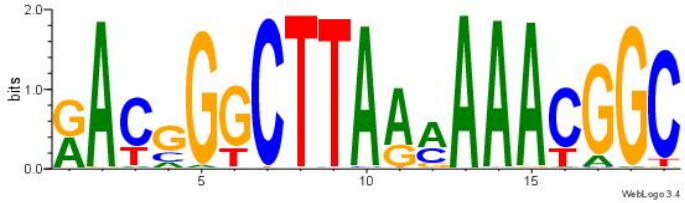

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.102809

Alignment:
CAAGTTGACACATAAAATTA
-TTGTTAAAAACTA------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

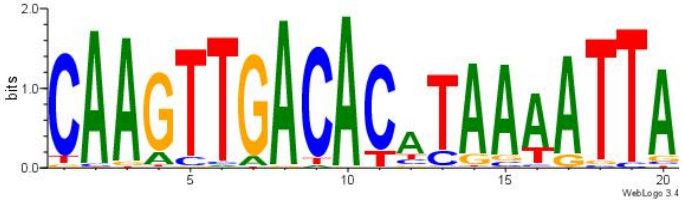

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

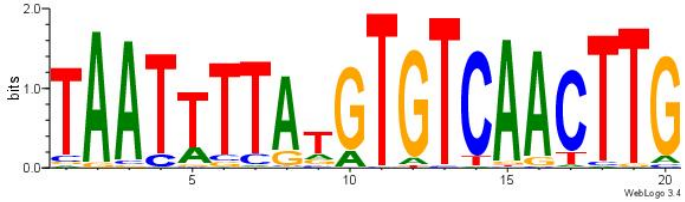

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 13
Similarity score: 0.104487

Alignment:
GTGTCKGGAGTTTGTTCCTT
TAGTTTTTAACAA-------

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

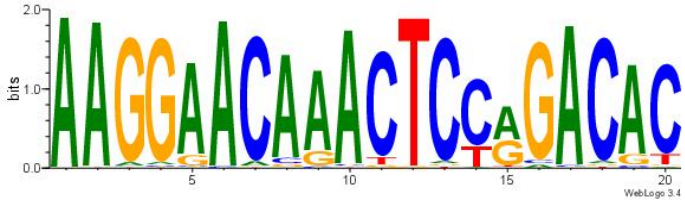

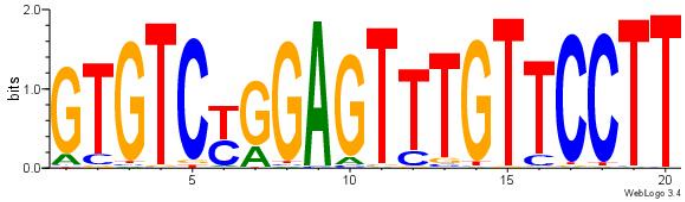

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.105627

Alignment:

```
GGCATCACGGATCCTACCAA
-------TAGTTTTTAACAA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

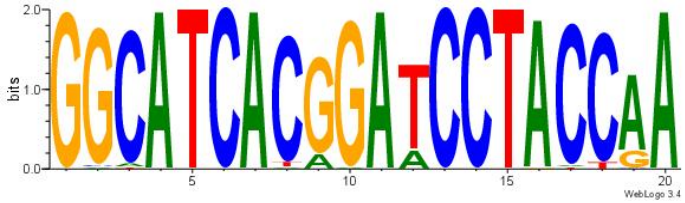

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

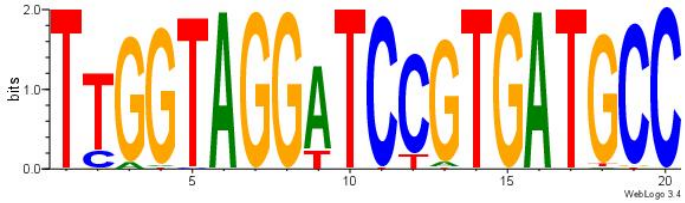

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.106086

Alignment:

```
GTKTMTATMTACCACATTTT
-TTGTTAAAAACTA------
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

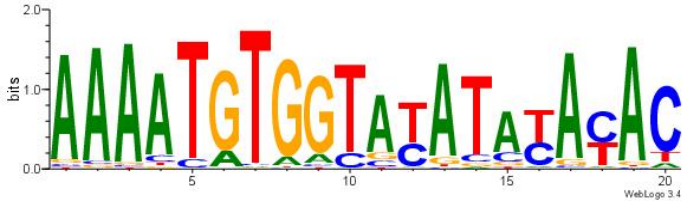

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

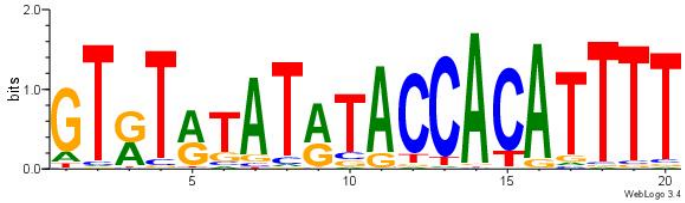

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.106395

Alignment:
TGAGKCAATTAAACCTCTT
----TTGTTAAAAACTA--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

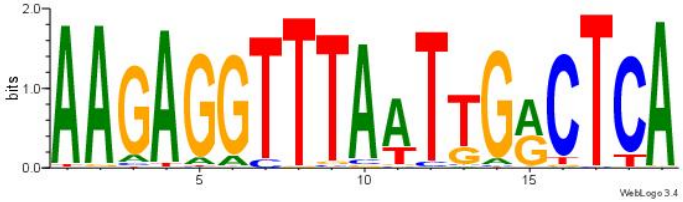

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

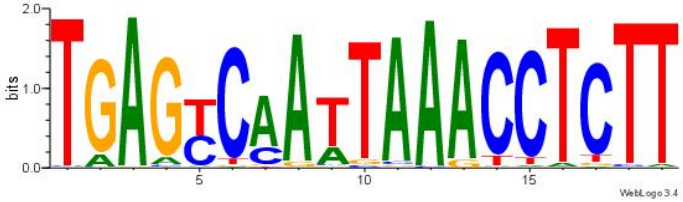

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.108377

Alignment:
GCTGTGTGACCTTGGGCAAG
------TAGTTTTTAACAA-

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

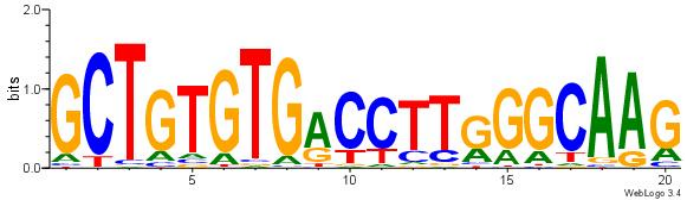

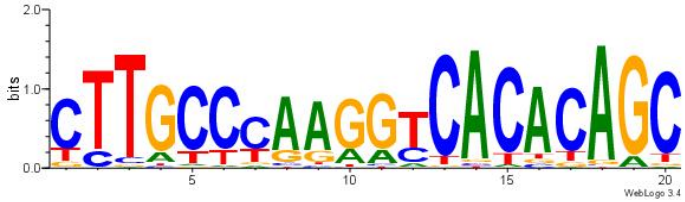

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.10938

Alignment:

```
CAGCTACTCKTATACCCTTG
------TTGTTAAAAACTA-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

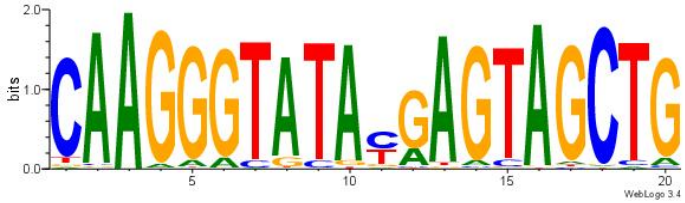

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

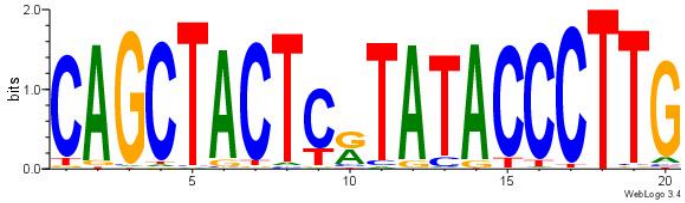

Dataset #: 1

Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.109812

Alignment:

```
TTTGTTATAGCAG
TAGTTTTTAACAA
```

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.111087

Alignment:
CTAGACATAAAGGTTCTCCA
-TAGTTTTTAACAA------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

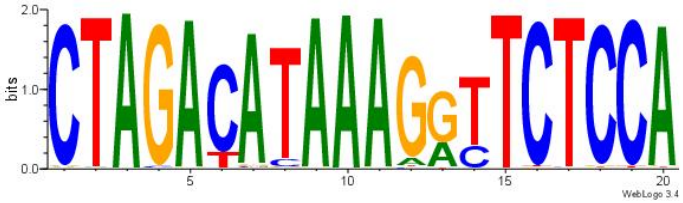

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

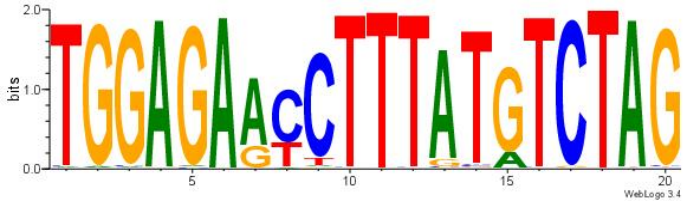

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.111775

Alignment:
TGTATTAGTCMMTT
-TTGTTAAAAACTA

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

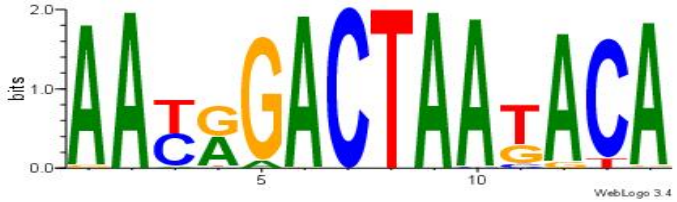

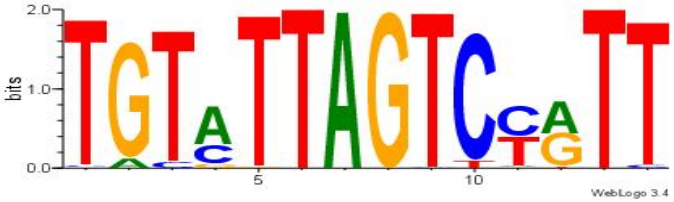

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.1133

Alignment:

```
CAAASCKGTCATAGGCCAT
-----TTGTTAAAAACTA-
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

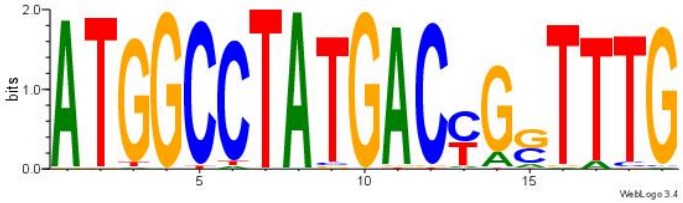

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

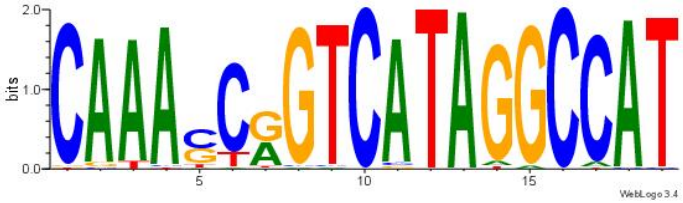

Dataset #: 1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.113913

Alignment:

```
GMTTAGCTCCCACTTA
---TTGTTAAAAACTA
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

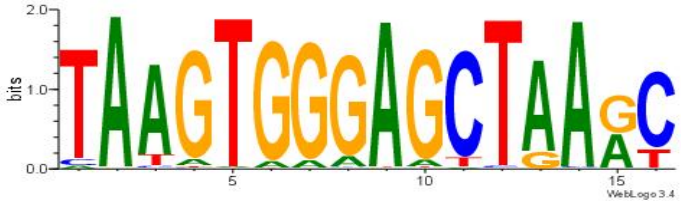

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

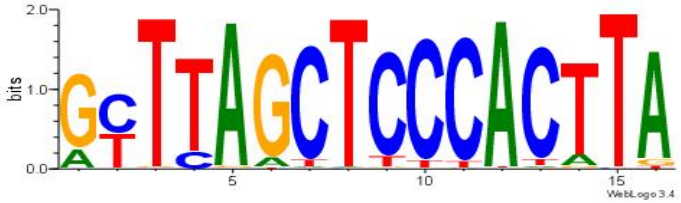

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.114325

Alignment:
GAAACTGCTTTGTGATGTGT
--TAGTTTTTAACAA-----

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

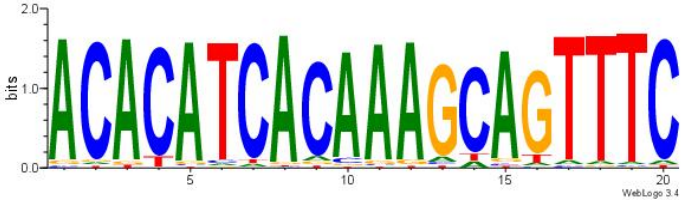

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

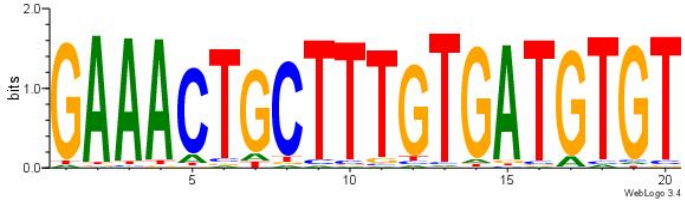

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.114328

Alignment:
TTGTCCCACTGGAAGGTCTT
TTGTTAAAAACTA-------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

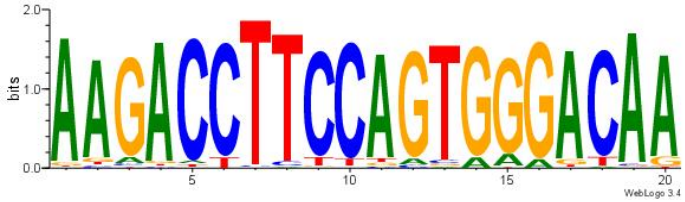

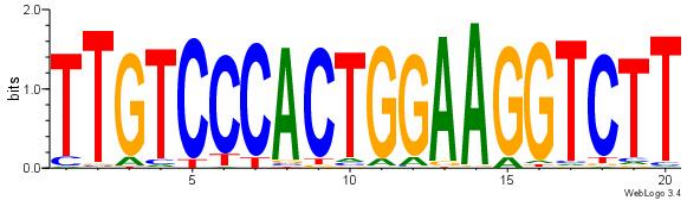

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.115185

Alignment:

```
CAAAGGCATAAGAATGAT
-TTGTTAAAAACTA----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

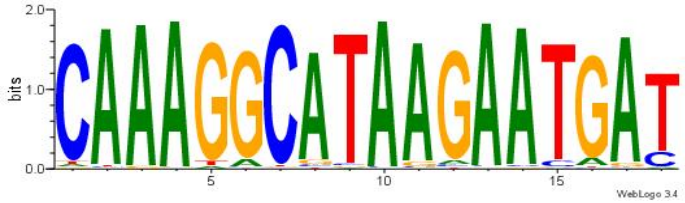

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

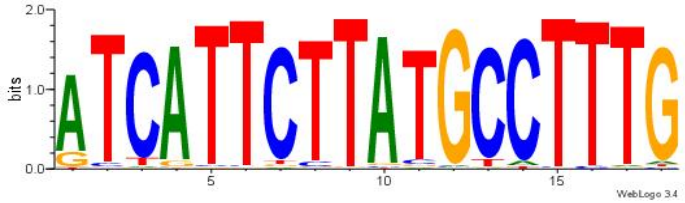

Dataset #: 1

Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.115852

Alignment:

```
AACAACAACAACAAMAA
---TTGTTAAAAACTA-
```

Original motif Consensus sequence: AACAACAACAACAAMAA

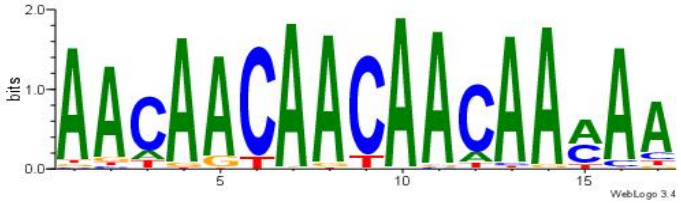

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

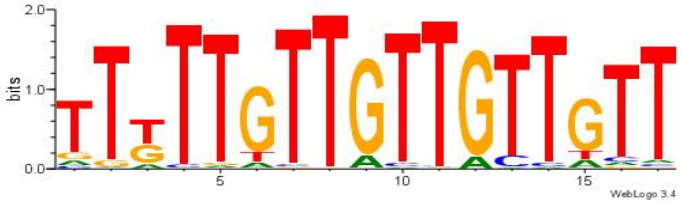

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.116788

Alignment:
KKCACCTTGATCTTGGACTT
TAGTTTTTAACAA-------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

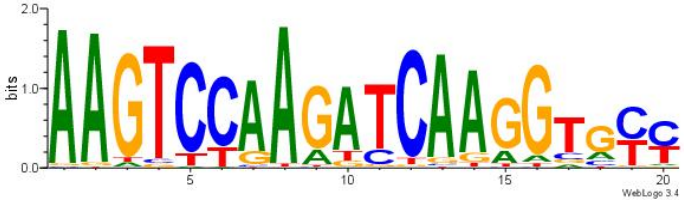

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

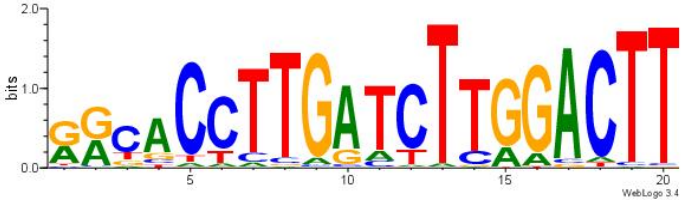

Dataset #: 1
Motif ID: 274
Motif name: Motif 274
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.116839

Alignment:
TTTCCTTGACCAG
TAGTTTTTAACAA

Original motif Consensus sequence: CTGGTCAAGGAAA

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

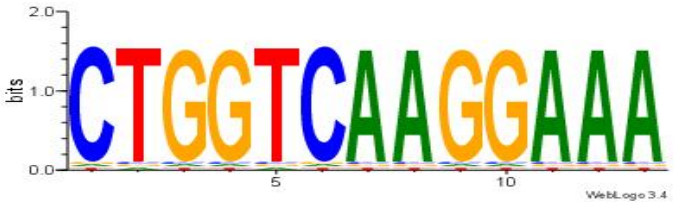

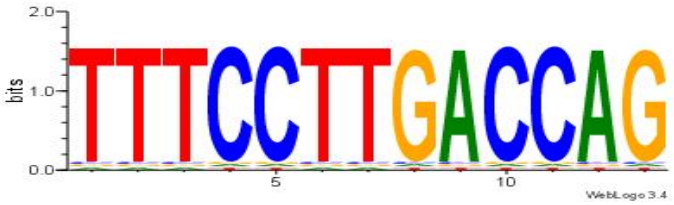

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.11715

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----TTGTTAAAAACTA--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

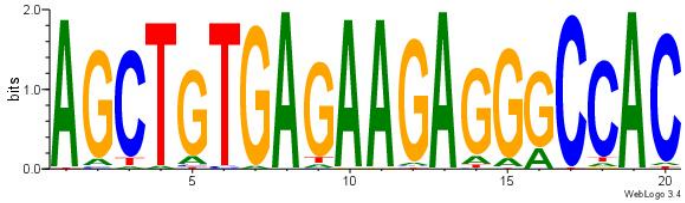

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

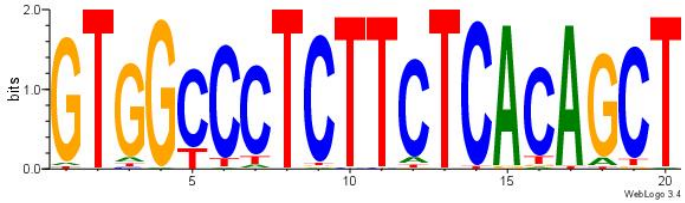

Dataset #: 1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.1173

Alignment:

```
GCACTCTGTMTCTAGCT
---TAGTTTTTAACAA-
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

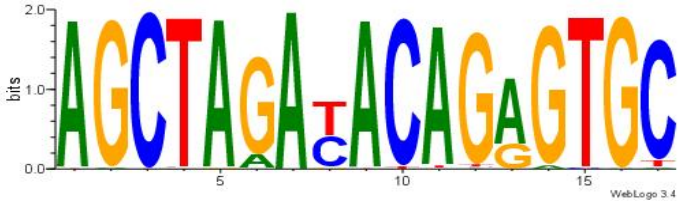

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

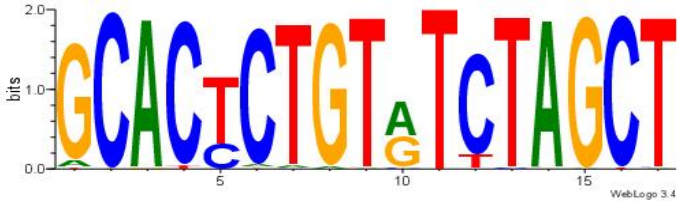

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.117348

Alignment:
ATATTGATGATCCTGACC
--TTGTTAAAAACTA---

Original motif Consensus sequence: ATATTGATGATCCTGACC

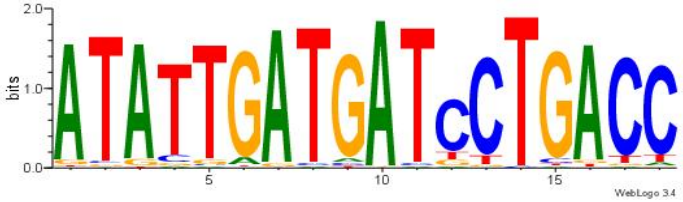

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

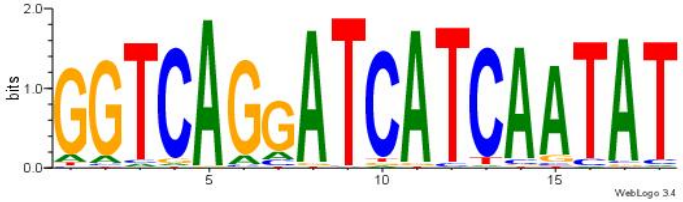

Dataset #: 1
Motif ID: 347
Motif name: Motif 347
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.117383

Alignment:
GTGTGCGAATAGGTGT
--TTGTTAAAAACTA-

Original motif Consensus sequence: ACACCTATTCGCACAC

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

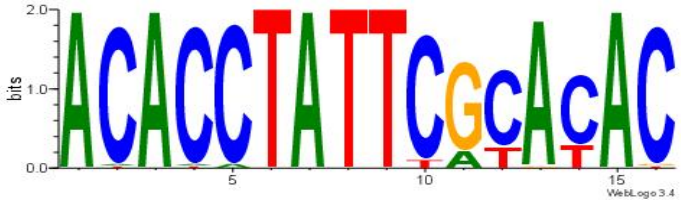

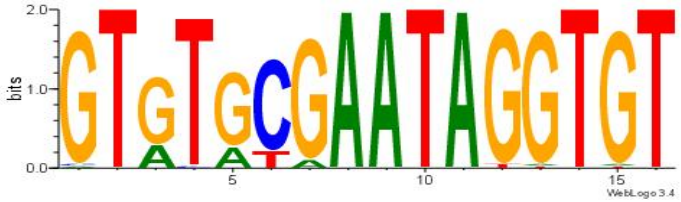

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.117416

Alignment:

```
ACTGTCTTCCACCTCCACAT
-TAGTTTTTAACAA------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

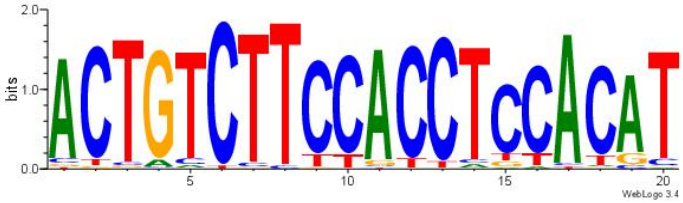

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

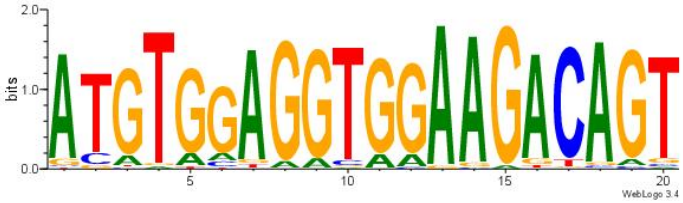

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.117452

Alignment:

```
AAATTAGGCCAATTAATAAC
------TAGTTTTTAACAA-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

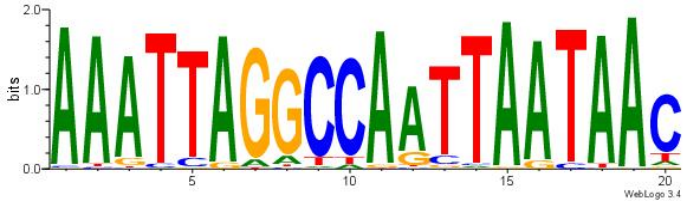

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1 Motif ID: 320 Motif name: Motif 320

Original motif Consensus sequence: CATCTGGAGCCCCA

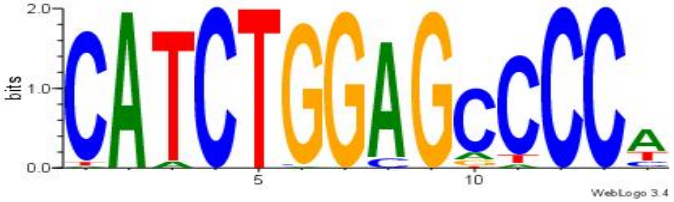

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

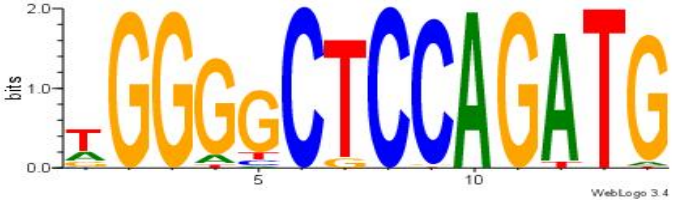

Best Matches for Motif ID 320 (Highest to Lowest)

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.057175

Alignment:

```
CATCTGGCAGCCCA
CATCTGGAGCCCCA
```

Original motif Consensus sequence: CATCTGGCAGCCCA

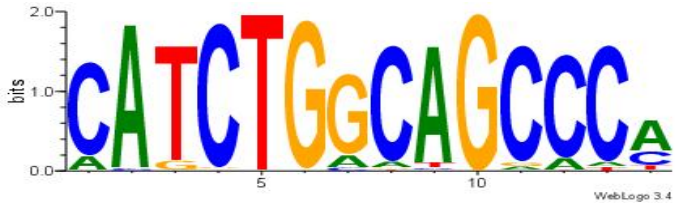

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

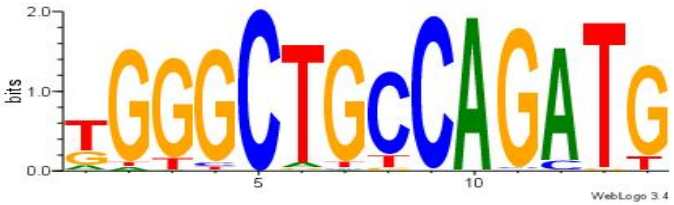

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.071304

Alignment:

```
CATTTGGGAGCCCATTGA
CATCTGGAGCCCCA----
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

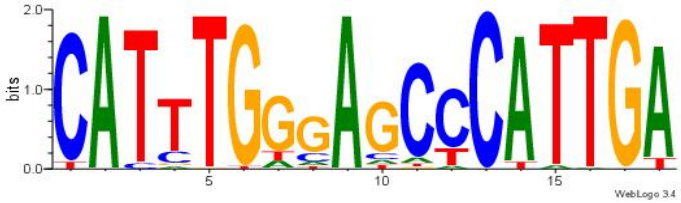

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

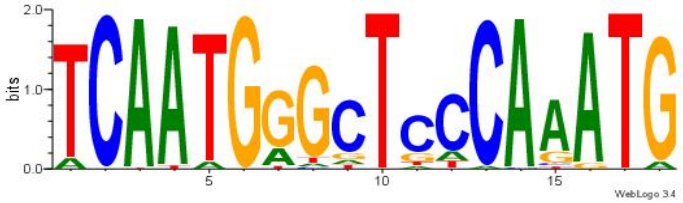

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0870604

Alignment:

```
CACCAGACTCAGGAGCCCAG
CATCTGGAGCCCCA------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

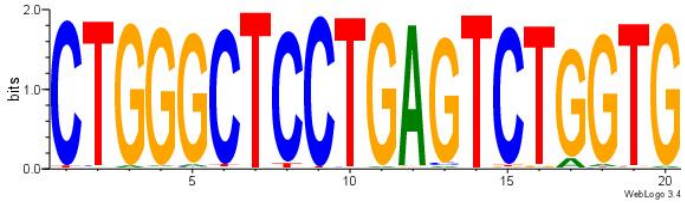

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

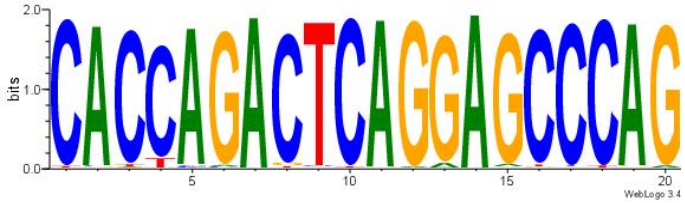

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.087898

Alignment:

```
CATGGCGGGCTGCAGGTC
TGGGGCTCCAGATG----
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

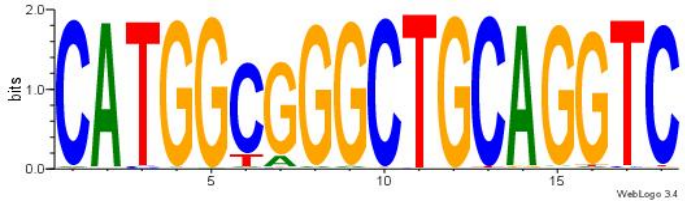

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

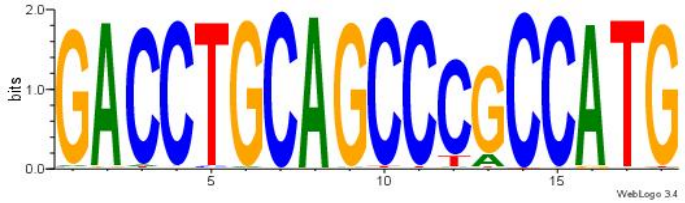

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0974135

Alignment:

```
GGCACTGCTGGGGGACCCAG
--CATCTGGAGCCCCA----
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

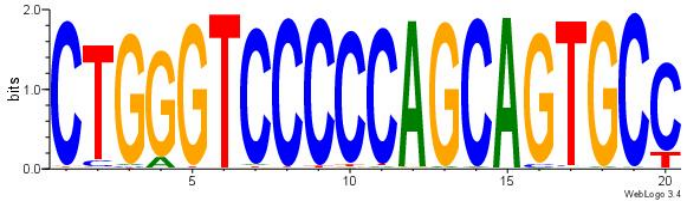

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

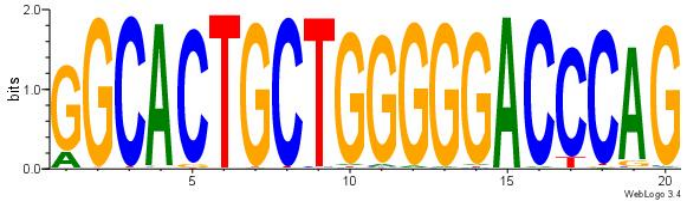

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0997601

Alignment:
CCCTGCTAGAACCTCCAA
--CATCTGGAGCCCCA--

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

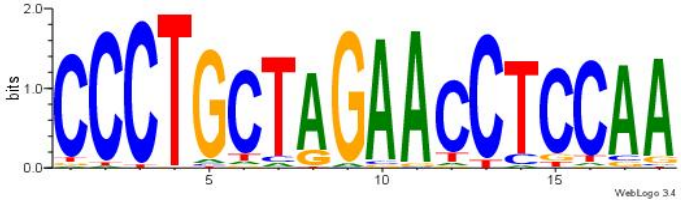

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

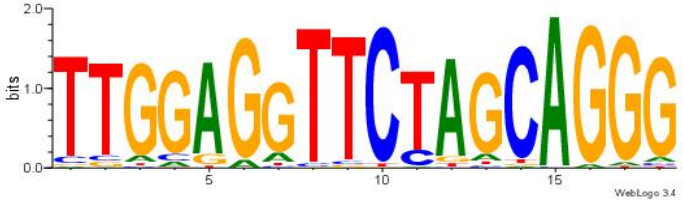

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.100141

Alignment:
GAATACCTCCTGAAGGACCT
CATCTGGAGCCCCA------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

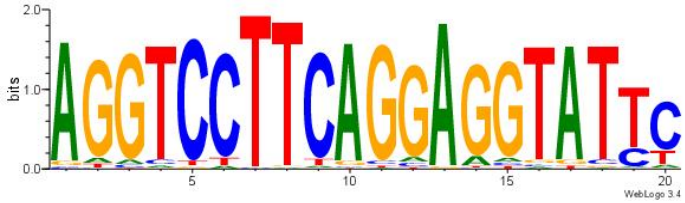

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

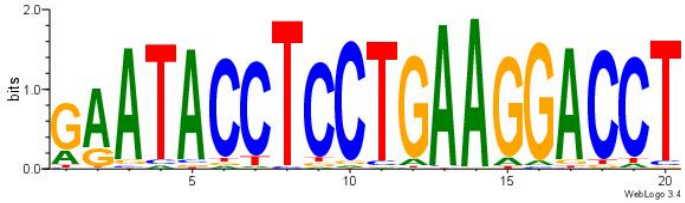

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.100654

Alignment:

```
CGTCGCTCACGCTGGGAGCT
TGGGGCTCCAGATG------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

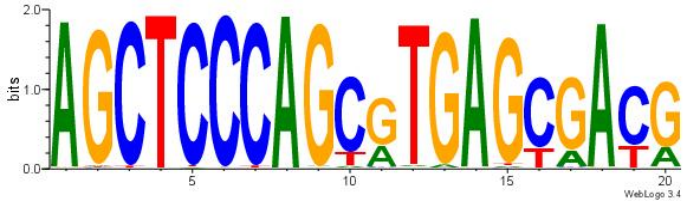

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

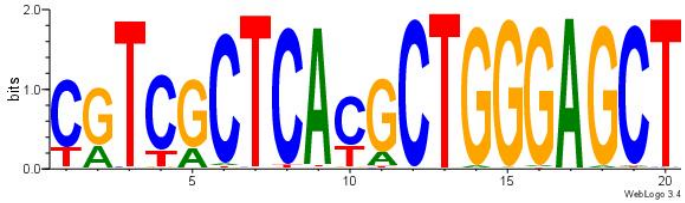

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.102405

Alignment:

```
MTCCTCCAGACCCCAGAATG
----CATCTGGAGCCCCA--
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

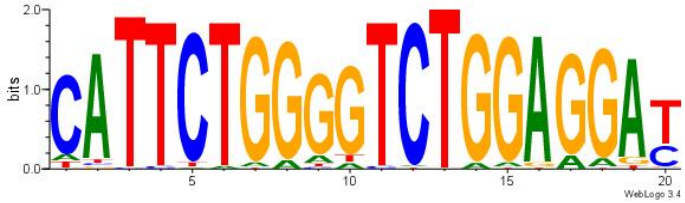

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

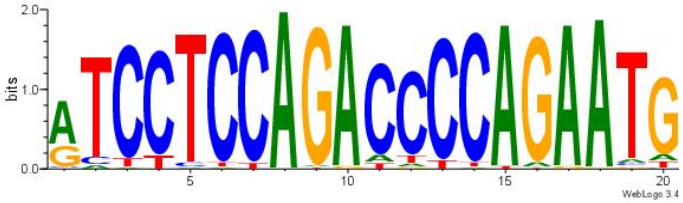

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.102872

Alignment:
GGSKGATCTGGCTG
TGGGGCTCCAGATG

Original motif Consensus sequence: CAGCCAGATCRSCC

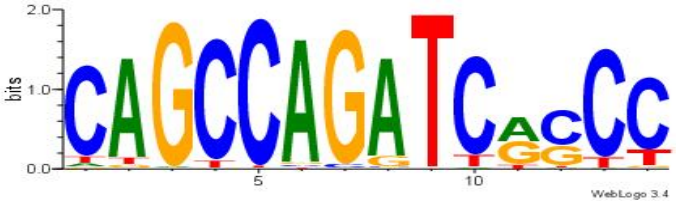

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

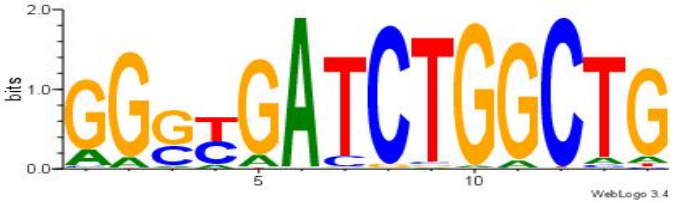

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.103601

Alignment:
AAGTTCTKGGKTACATGTGC
-----TGGGGCTCCAGATG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

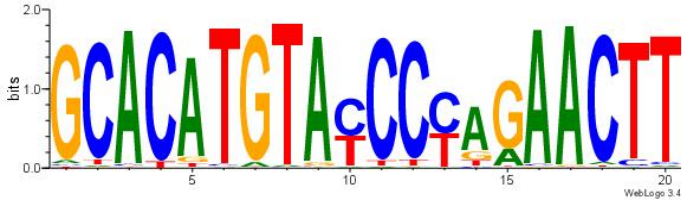

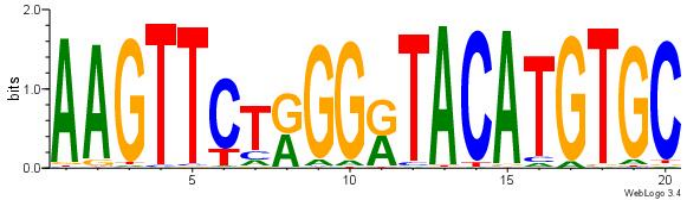

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.103991

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-TGGGGCTCCAGATG-----
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

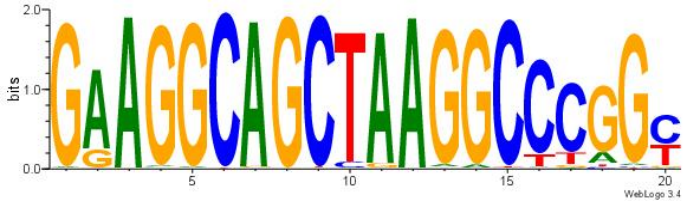

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

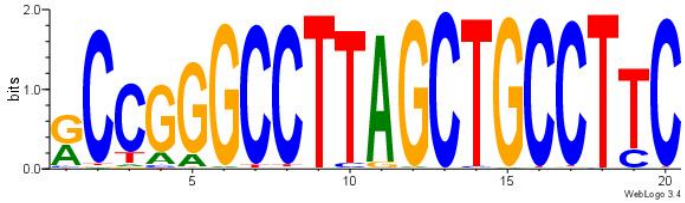

Dataset #: 1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.105961

Alignment:

```
AAAGCTGGAGCTATTATCTA
-CATCTGGAGCCCCA-----
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

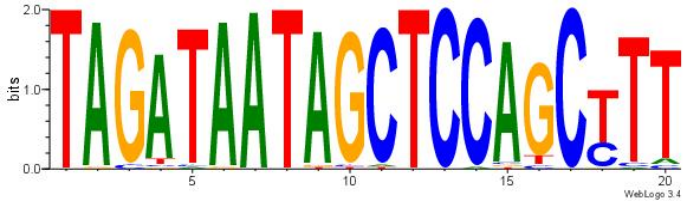

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

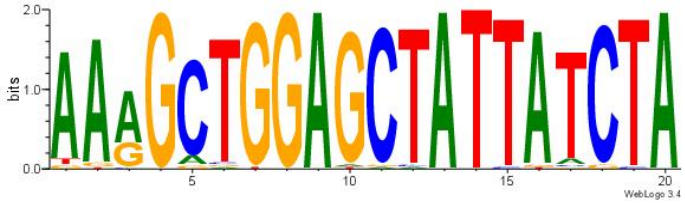

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14

Similarity score: 0.107227

Alignment:
AWTKKTGGTTKCCAGKGGCT
----TGGGGCTCCAGATG--

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

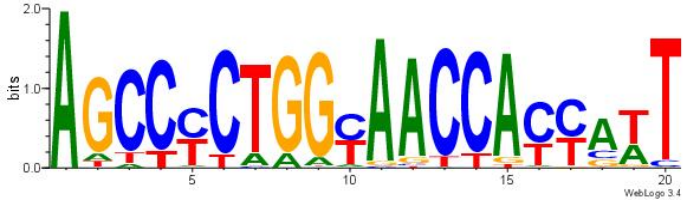

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

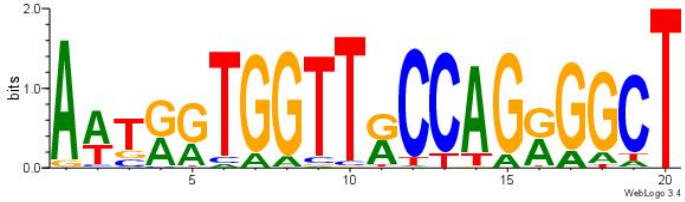

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.108011

Alignment:
TTGGTAGGATCCGTGATGCC
----TGGGGCTCCAGATG--

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

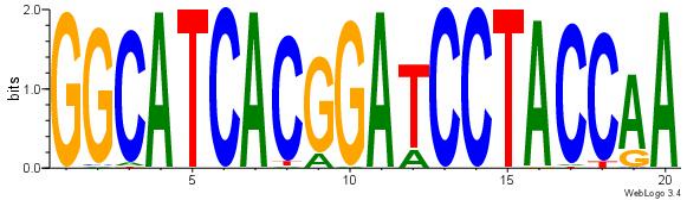

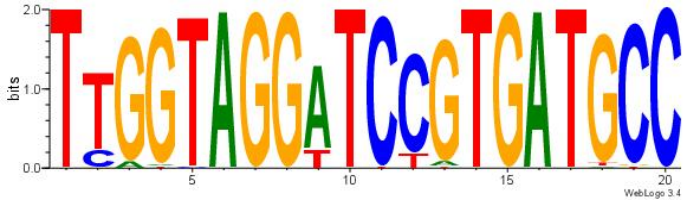

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.108533

Alignment:

```
GACATGGAGTCAAAGG
CATCTGGAGCCCCA--
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

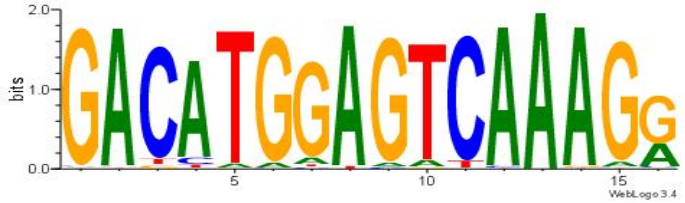

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

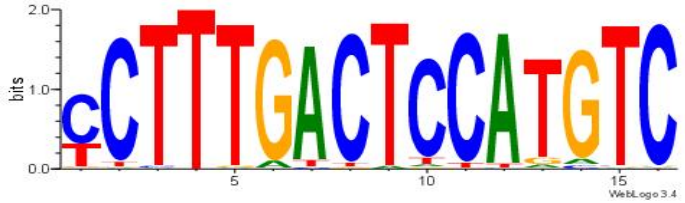

Dataset #: 1

Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.110088

Alignment:

```
TCTGGAGTGGACCTCCAGCA
---CATCTGGAGCCCCA---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

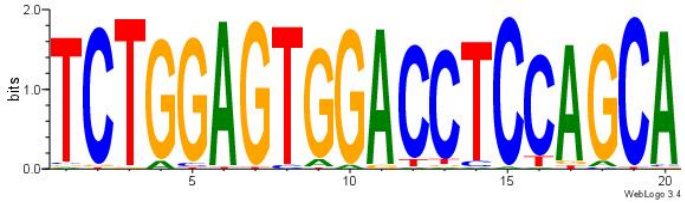

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

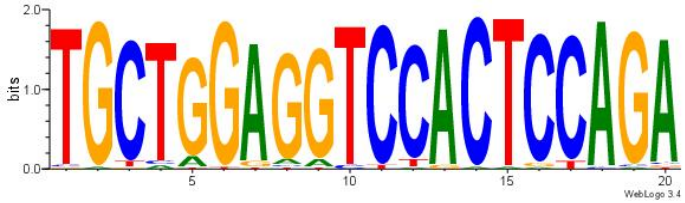

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

Similarity score: 0.110323

Alignment:
GCCTCTCCCTCCACACCTCC
-CATCTGGAGCCCCA-----

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

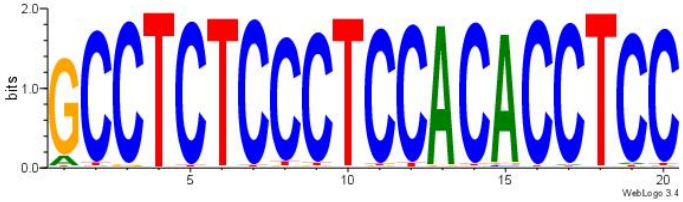

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

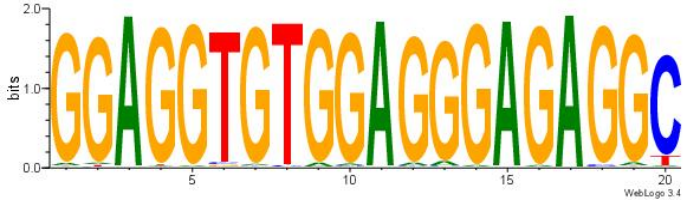

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.111345

Alignment:
GTCCCATCGACCACCCAAG
----CATCTGGAGCCCCA-

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

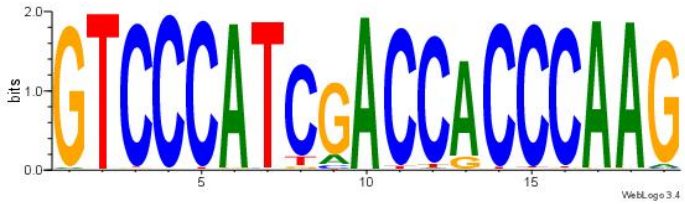

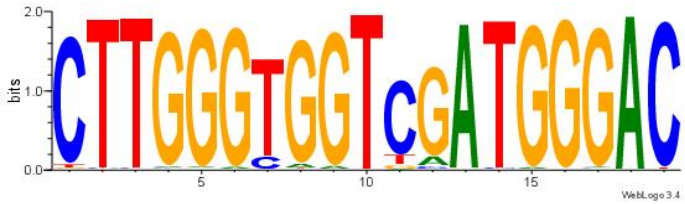

Dataset #:	1
Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.111433

Alignment:

```
AGAGTCTCACTCTGT
-TGGGGCTCCAGATG
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

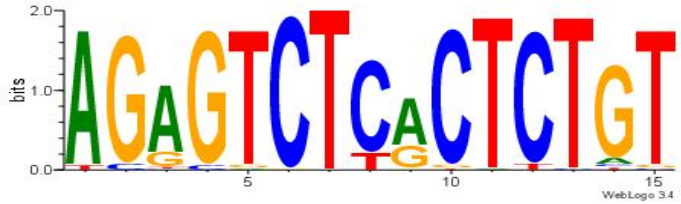

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

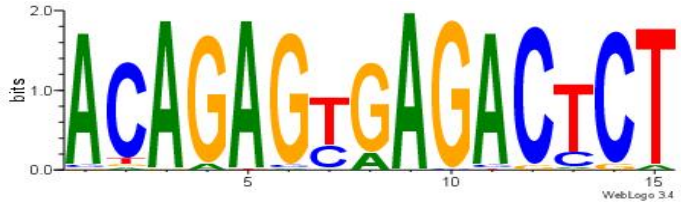

Dataset #:	1
Motif ID:	29

Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.111746

Alignment:

```
CTGGGCRACAGAGYRAGACY
------TGGGGCTCCAGATG
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

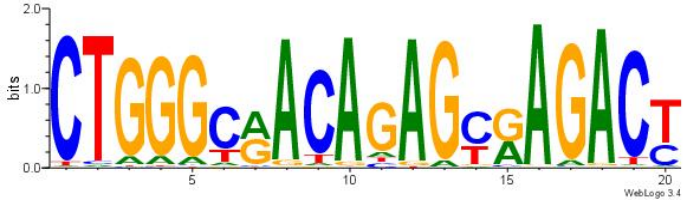

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

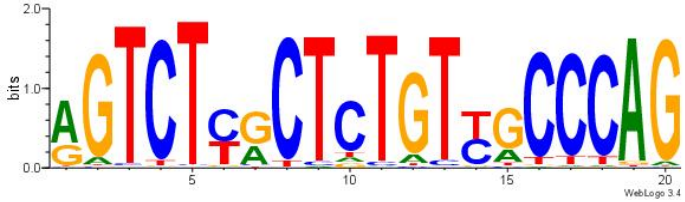

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.112122

Alignment:
ARCTCCTGKSCTCAAGKGAT
-----TGGGGCTCCAGATG-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

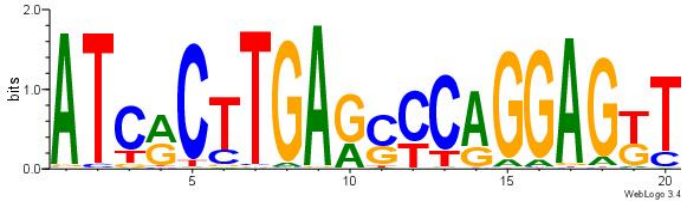

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

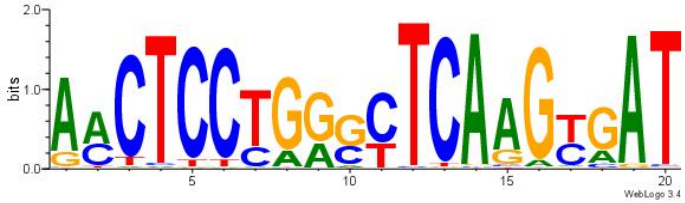

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.112382

Alignment:
GGGAGGTGTCTCCCAGTCAG
----TGGGGCTCCAGATG--

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

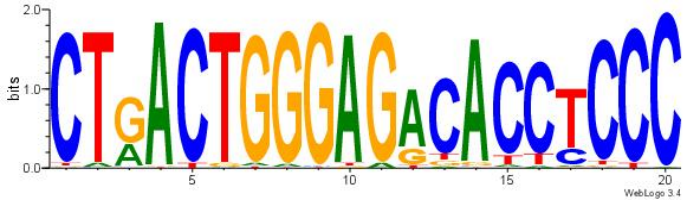

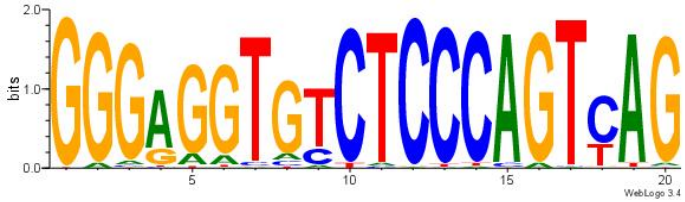

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.112905

Alignment:

```
GTAGCTGGGAYTACA
-CATCTGGAGCCCCA
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

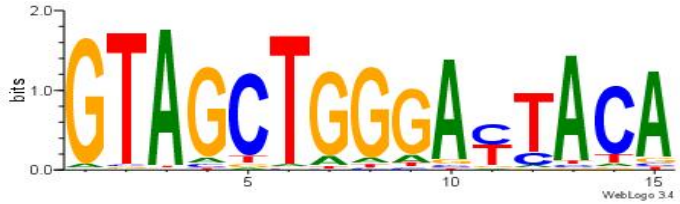

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

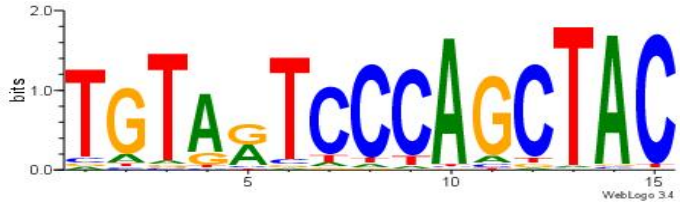

Dataset #:	1
Motif ID:	184

Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.113805

Alignment:

```
GGTCAGGATCATCAATAT
----CATCTGGAGCCCCA
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

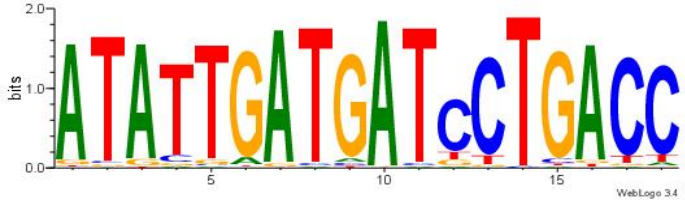

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

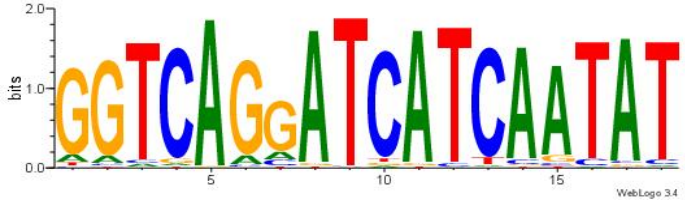

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.114226

Alignment:
GCCCTCACCAGAAGC
-TGGGGCTCCAGATG

Original motif Consensus sequence: GCCCTCACCAGAAGC

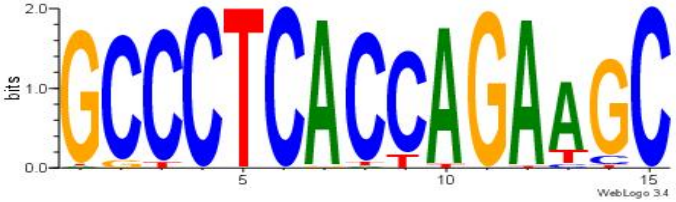

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

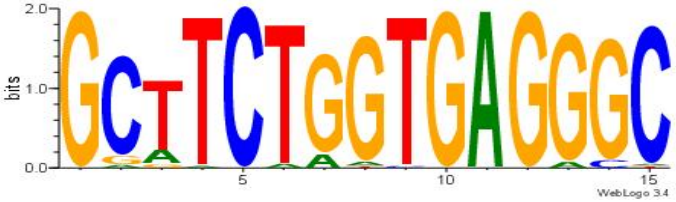

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.114431

Alignment:
CACCAGGAGATTATATCCCR
CATCTGGAGCCCCA------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

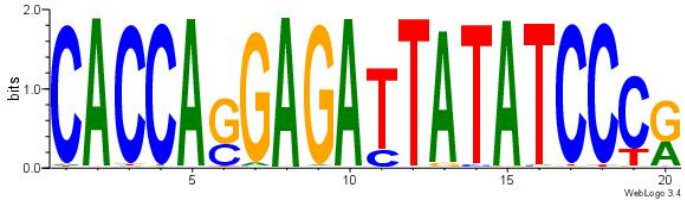

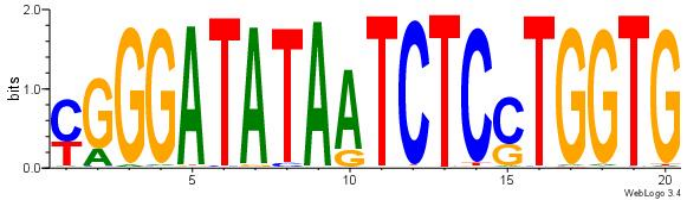

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.114502

Alignment:

```
TGHCCTGCKCCCACTGTCT
--TGGGGCTCCAGATG---
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

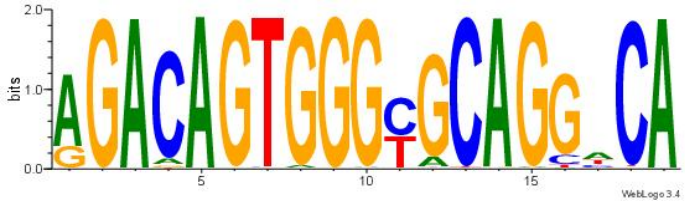

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

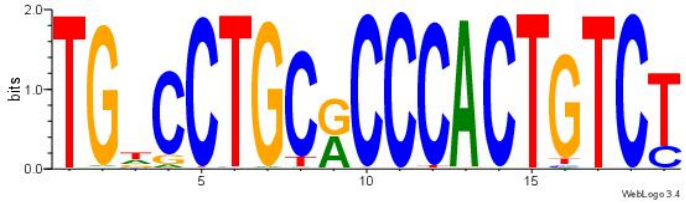

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.114954

Alignment:

```
GACATGAGCTGGCGCTTG
--CATCTGGAGCCCCA--
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

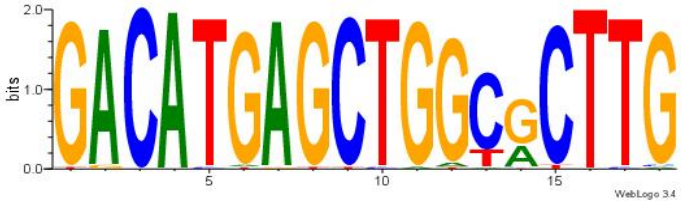

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

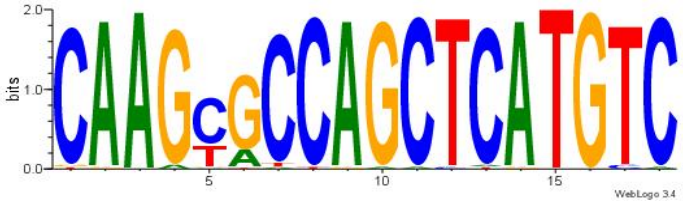

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.115358

Alignment:
TMGGGAGGCTGAGGCAGGAG
TGGGGCTCCAGATG------

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

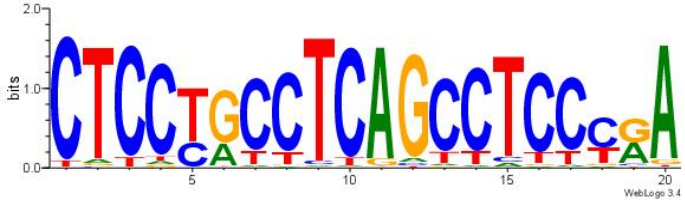

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

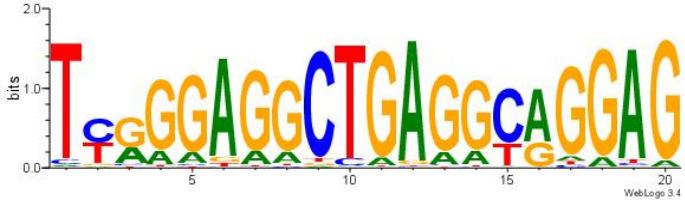

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.115776

Alignment:
AAGACCTTCCAGTGGGACAA
-----TGGGGCTCCAGATG-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

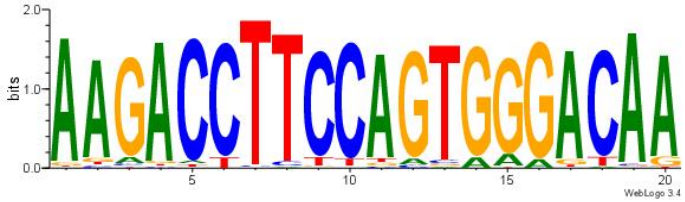

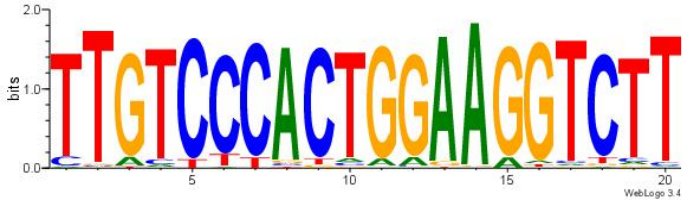

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.115969

Alignment:

```
AGTTCTTAAAGATGGT
--TGGGGCTCCAGATG
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

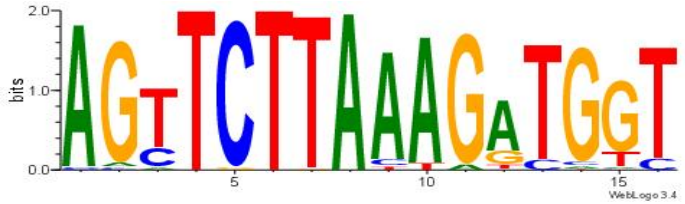

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

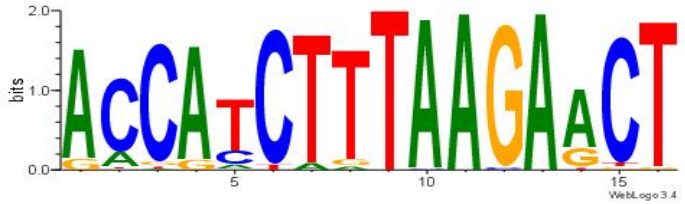

Dataset #:	1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.116077

Alignment:

```
TCAGGAGTGAAGCTGC
-TGGGGCTCCAGATG-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

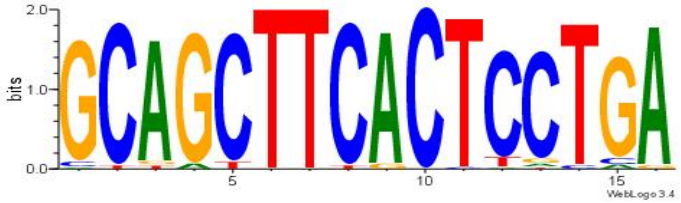

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

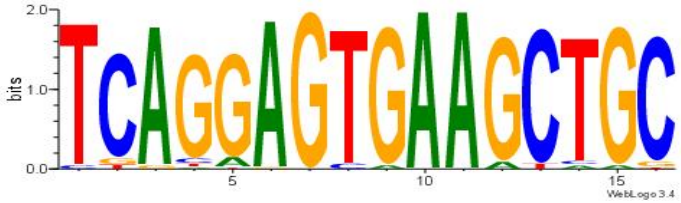

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.116427

Alignment:
TATTTACAGCTGCT
CATCTGGAGCCCCA

Original motif Consensus sequence: AGCAGCTGTAAATA

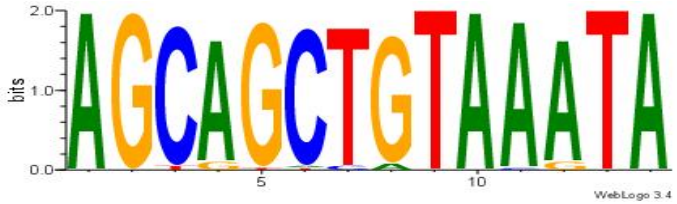

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

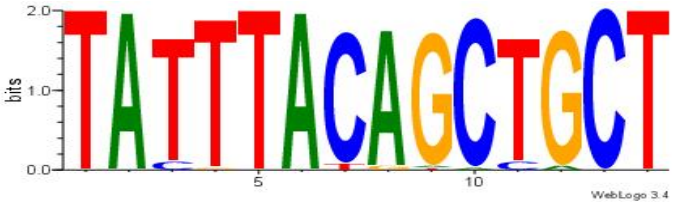

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.116652

Alignment:
CGGCGCTGMGCTCGATTTCT
-----TGGGGCTCCAGATG-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

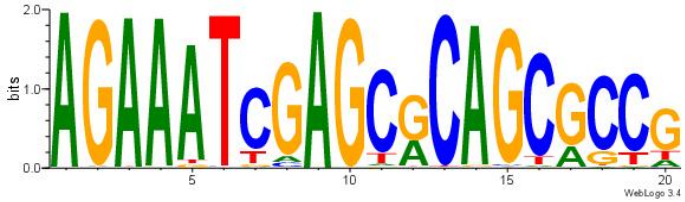

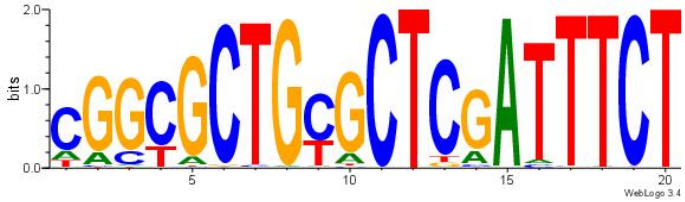

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.116657

Alignment:

```
CCACCACAGCTCAAGGAGGC
----TGGGGCTCCAGATG--
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

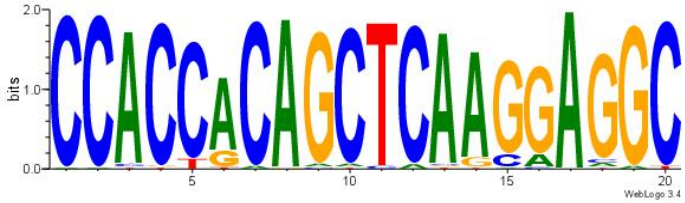

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

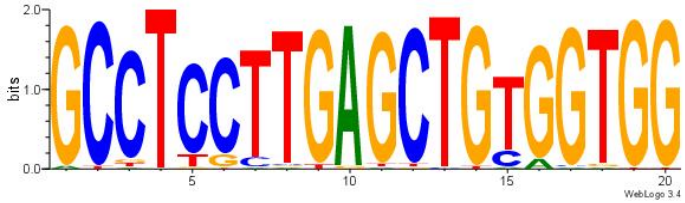

Dataset #:	1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.11673

Alignment:

```
CTCCTGACCTCGTGATC
---TGGGGCTCCAGATG
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

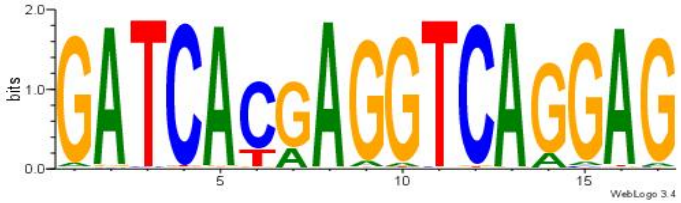

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

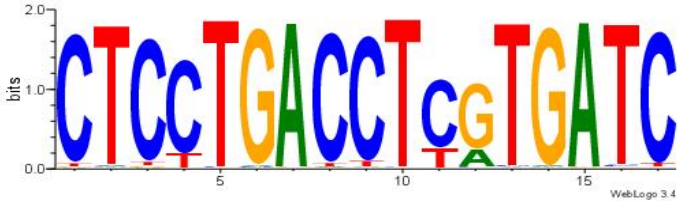

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.116793

Alignment:
CCTAGATTTCAGARGATGT
----TGGGGCTCCAGATG-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

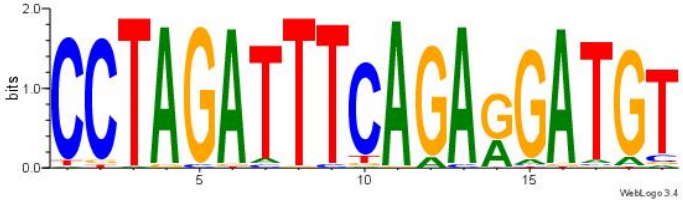

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

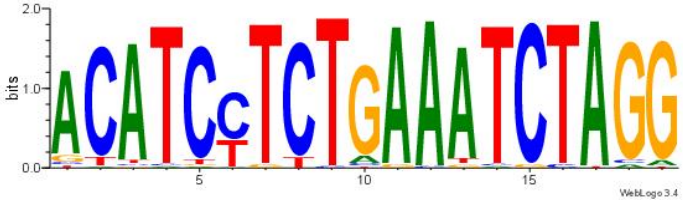

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.116946

Alignment:
VMATTTAKTGAGCACCTACT
---CATCTGGAGCCCCA---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

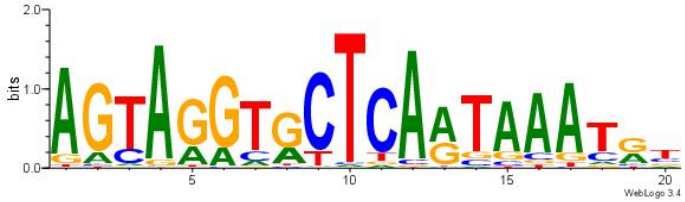

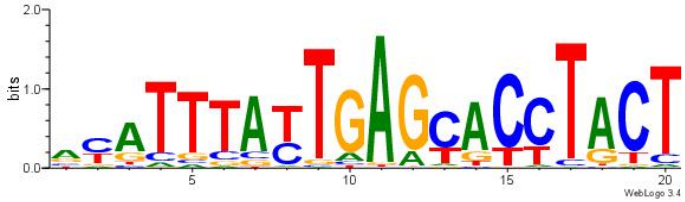

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.117099

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
----TGGGGCTCCAGATG--
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

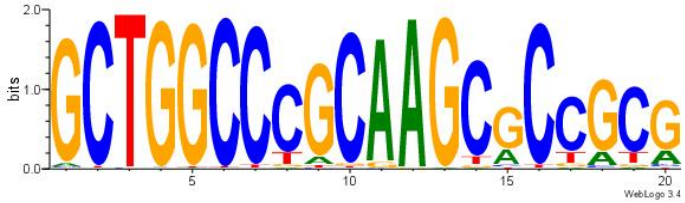

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

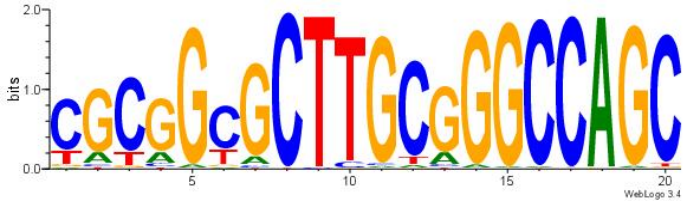

Dataset #: 1

Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.117688

Alignment:

```
MGAAGGGACTTGCCTTGT
---TGGGGCTCCAGATG-
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

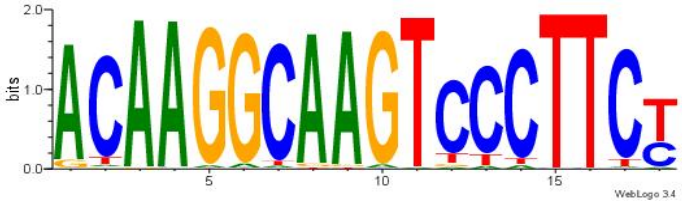

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

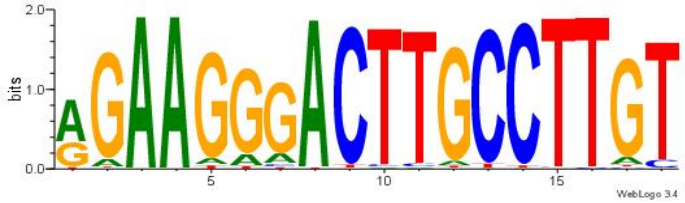

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	14

Similarity score: 0.118229

Alignment:
TCKMGCCACTGCACTCCAGC
-CATCTGGAGCCCCA-----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

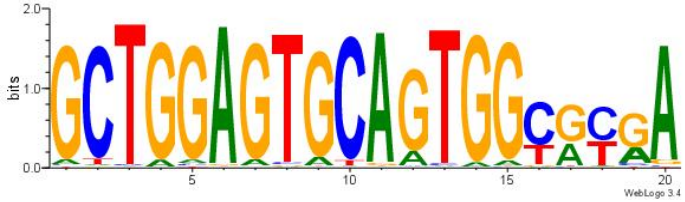

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

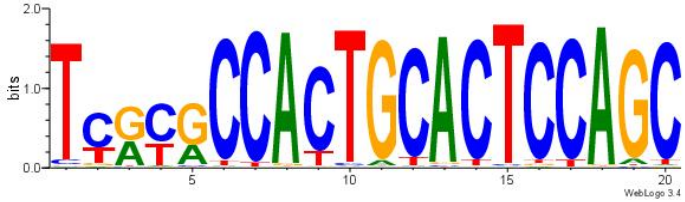

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.118594

Alignment:
AGGACTGAGGGTGCCYRGGG
TGGGGCTCCAGATG------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

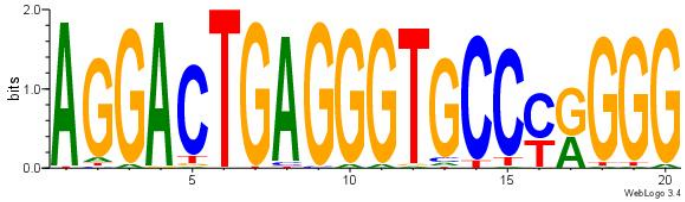

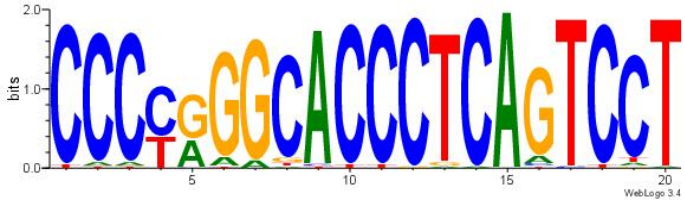

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.118788

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---CATCTGGAGCCCCA---
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

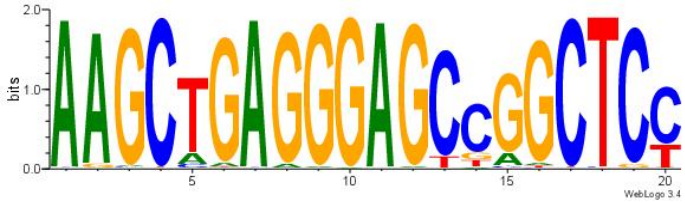

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

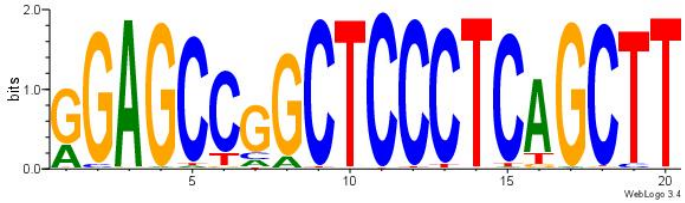

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.118872

Alignment:

```
TAAAAGACTACAWATTGGGT
----TGGGGCTCCAGATG--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

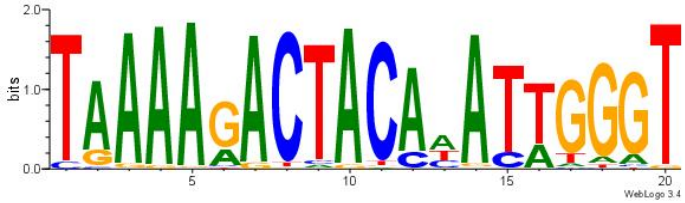

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

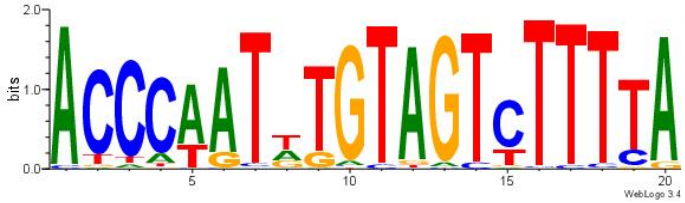

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.11922

Alignment:
GAAAGGGAACTCCCTGACCC
CATCTGGAGCCCCA------

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

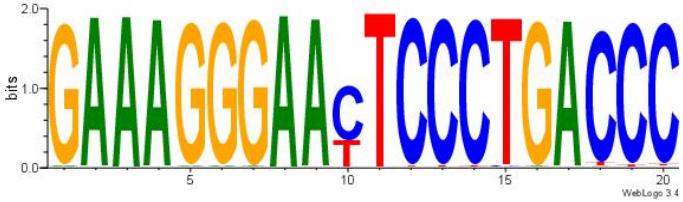

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

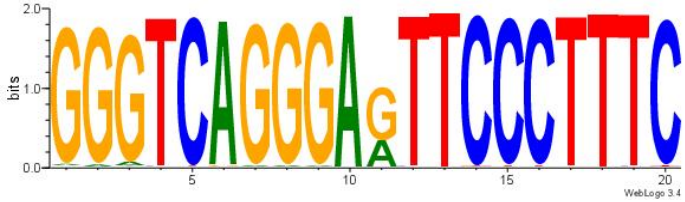

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.119347

Alignment:
TAMGACCTCAGGTCCTCAG
CATCTGGAGCCCCA-----

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

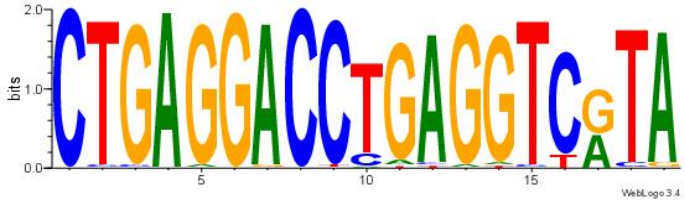

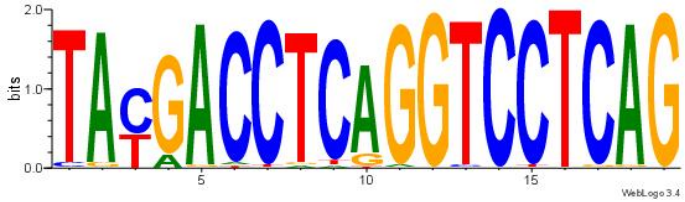

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.119429

Alignment:

```
GGGGGCTGACCCCCCCACC
--CATCTGGAGCCCCA---
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

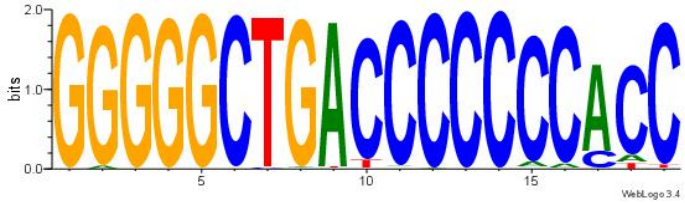

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

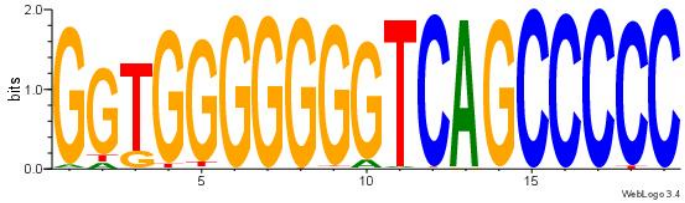

Dataset #:	1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.119497

Alignment:

```
AGGAGCGCCTCTKCCCGGC
-----TGGGGCTCCAGATG
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

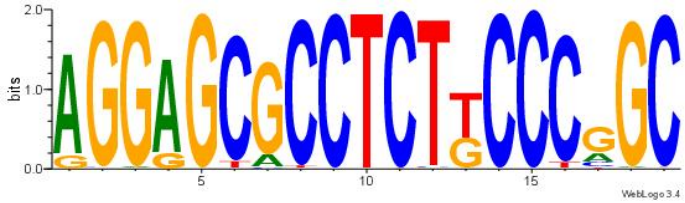

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

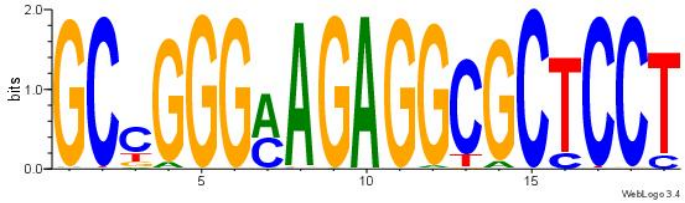

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.119648

Alignment:
GGGRSCACAGGAGCD
TGGGGCTCCAGATG-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

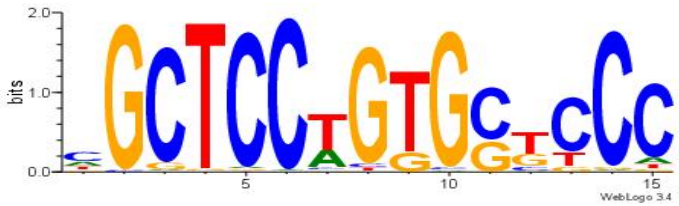

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

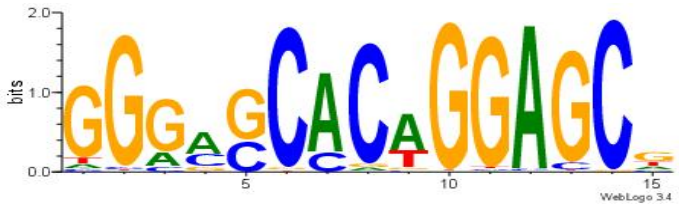

Dataset #: 1 Motif ID: 321 Motif name: Motif 321

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

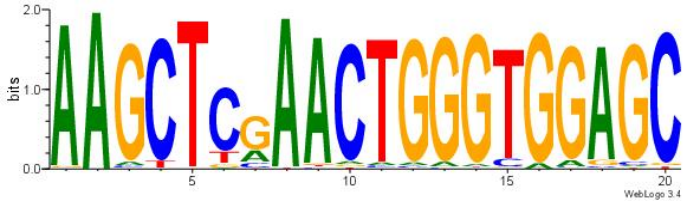

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

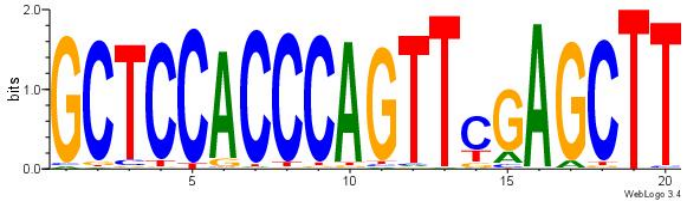

Best Matches for Motif ID 321 (Highest to Lowest)

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114862

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

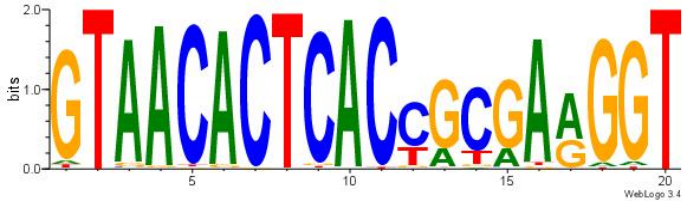

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

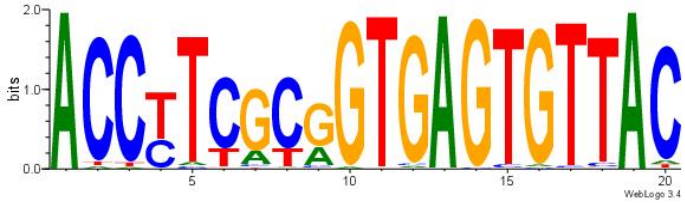

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.117485

Alignment:

AAATTACCCAGTCTCAGGTA
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

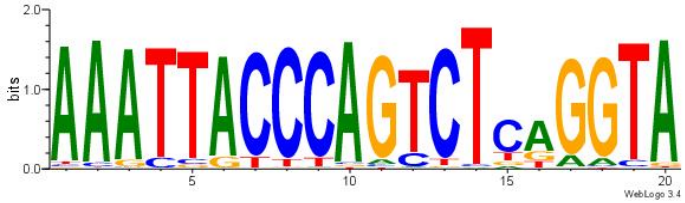

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

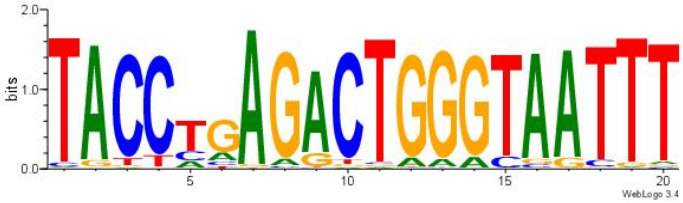

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.118909

Alignment:
CCGCTGCACTGTGGGAGCCC
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

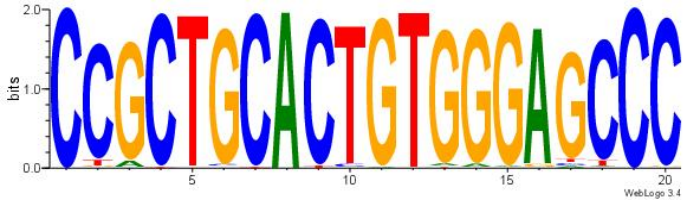

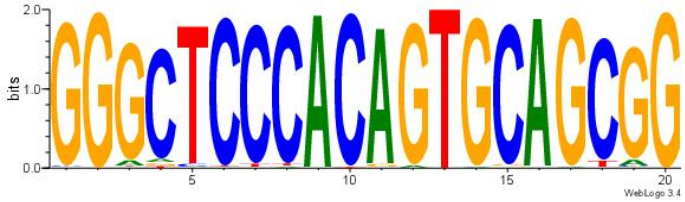

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12743

Alignment:

```
ACTCCCTAGTGAGATGAACC
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

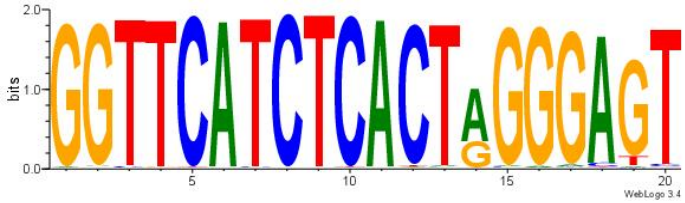

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

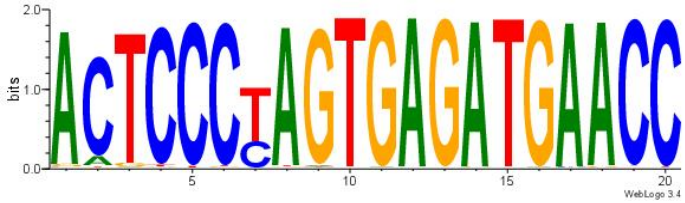

Dataset #: 1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130736

Alignment:

AAGTCCAAGATCAAGGTGYY

AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

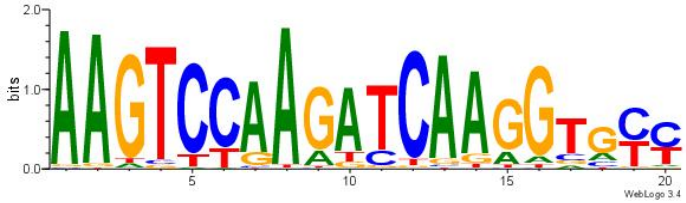

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

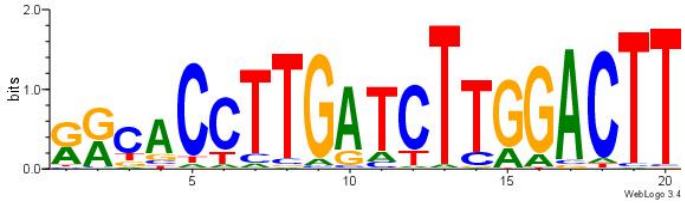

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131273

Alignment:
GTGCCAGGCACTGTKCTARG
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

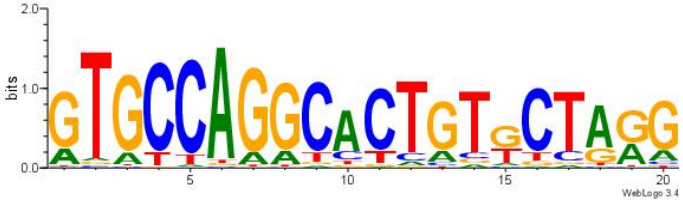

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

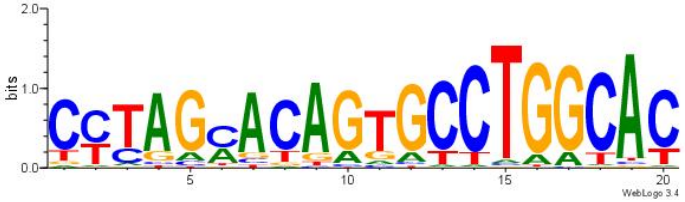

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.13212

Alignment:
AAGTTCTKGGKTACATGTGC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

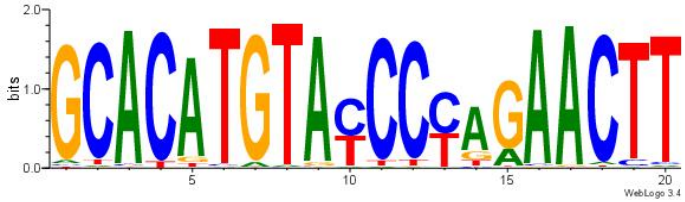

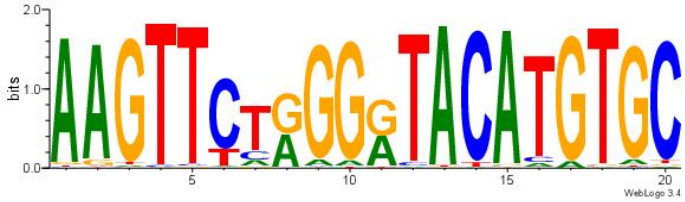

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.132727

Alignment:

```
ATTGATMKCCAGGGTTGATT
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

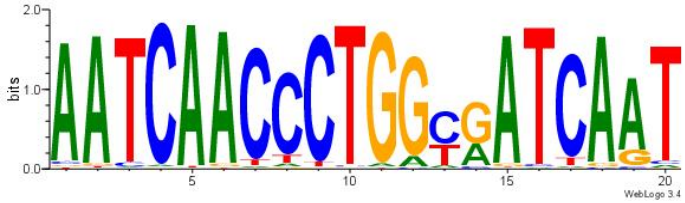

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

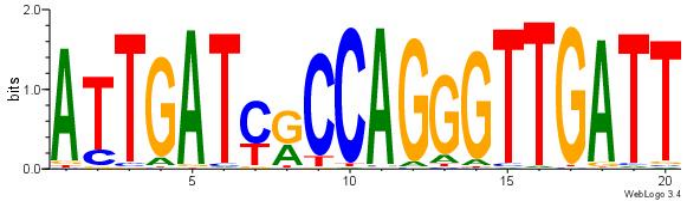

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.13348

Alignment:
TTGTCCCACTGGAAGGTCTT
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

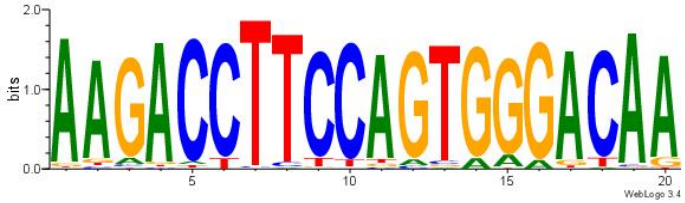

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

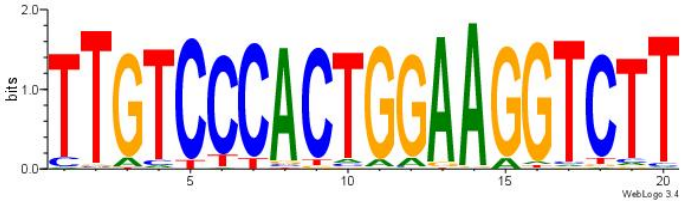

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134948

Alignment:
AGGCCCCAGTGTSTGTTGTT
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

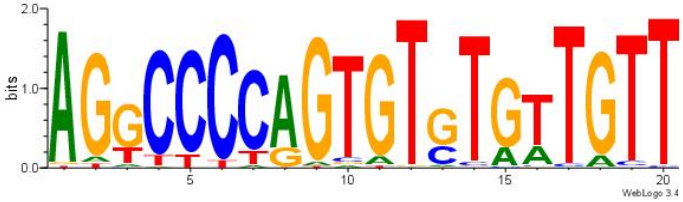

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

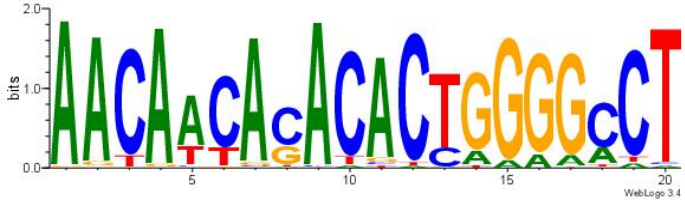

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.135757

Alignment:
GGGTCAGGGAGTTCCCTTTC
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

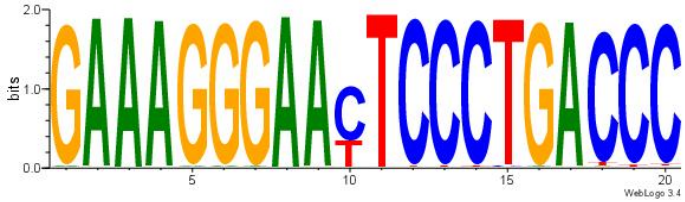

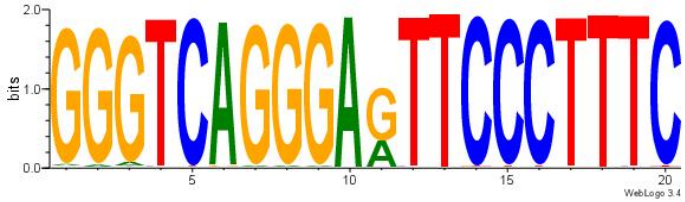

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136151

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

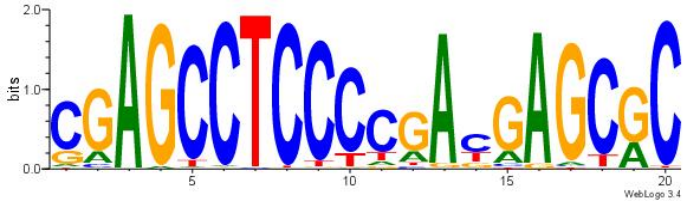

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

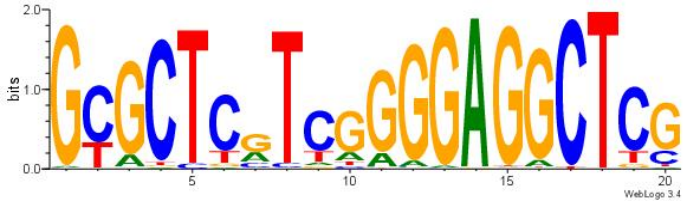

Dataset #:	1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136665

Alignment:

```
TGGCTTCACCCAGTGGATCC
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

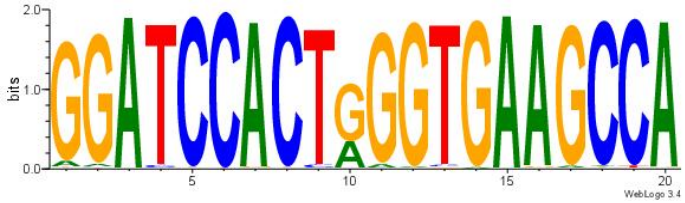

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

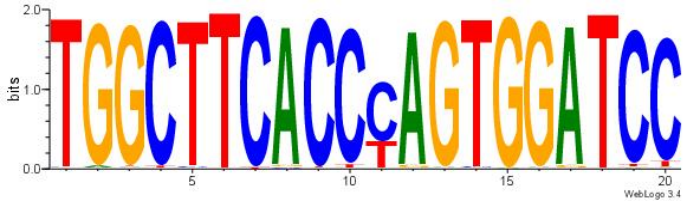

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.137066

Alignment:
GAAHCAACCKAAKTGTCCAT
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

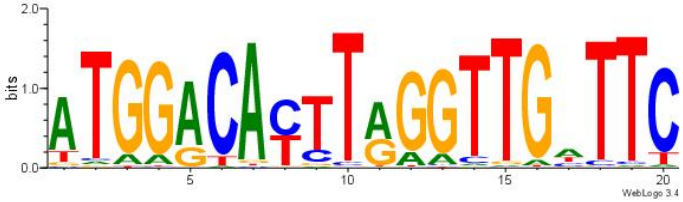

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

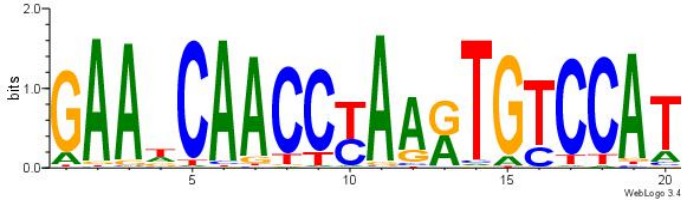

Dataset #: 1
Motif ID: 13
Motif name: Motif 13
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.137936

Alignment:
GGCAATGCCTCGCCCTGCTT
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

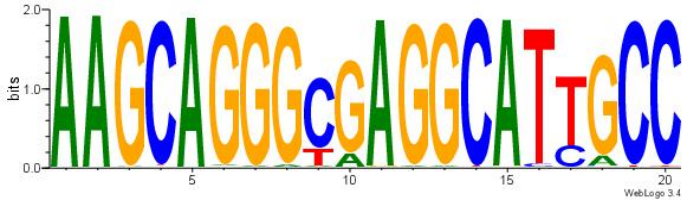

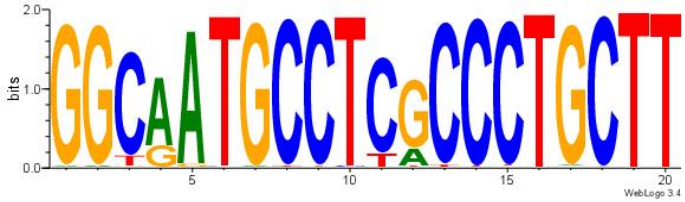

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137999

Alignment:

```
ATGTAACCAAAYACCACCTG
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

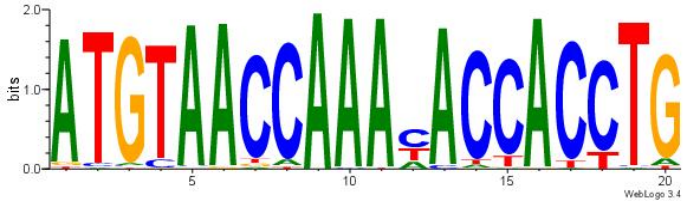

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

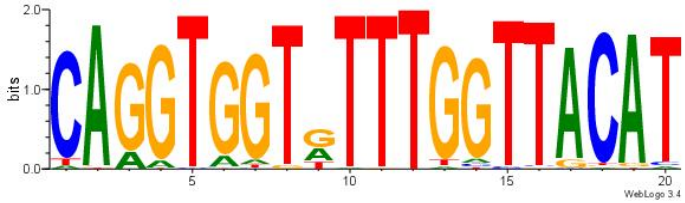

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139948

Alignment:
TCTCTCTCTCTCTCTCTCTC
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

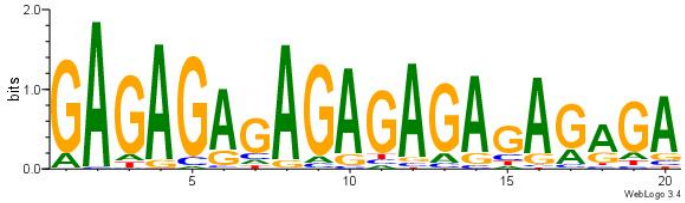

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

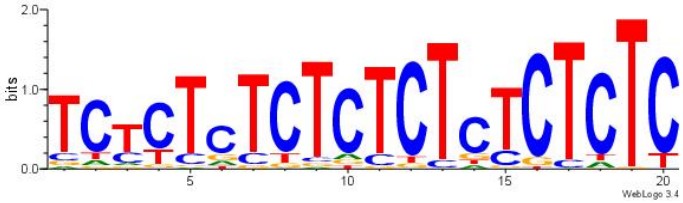

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.1405

Alignment:
GCTGGAGTGCAGTGGCRYGA
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

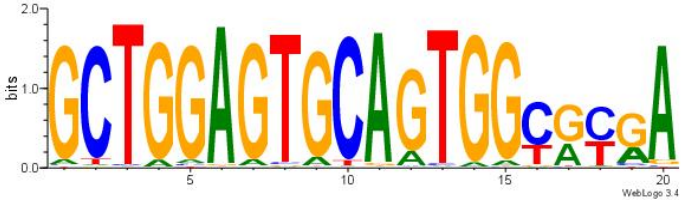

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

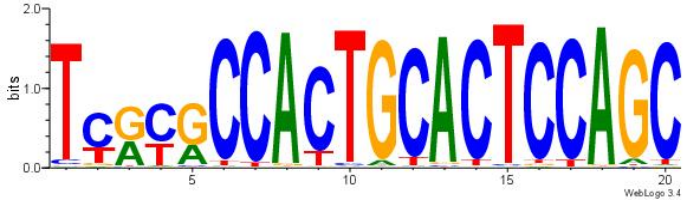

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140522

Alignment:
GCCKCCCCGTCCGGGAGGGA
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

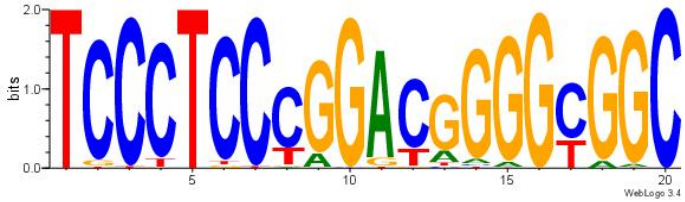

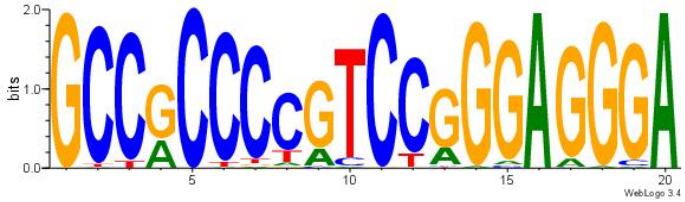

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.140842

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

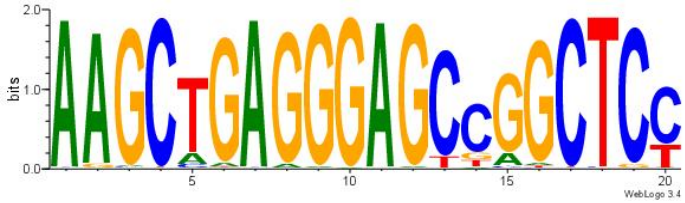

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

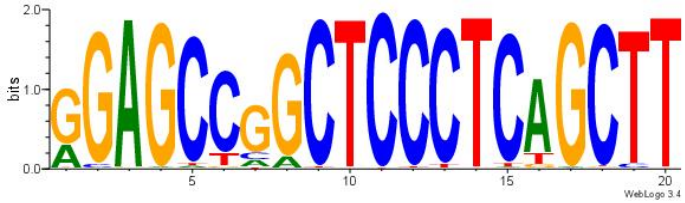

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143732

Alignment:

CTGGGCRACAGAGYRAGACY
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

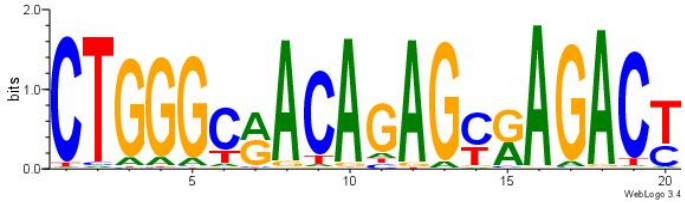

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

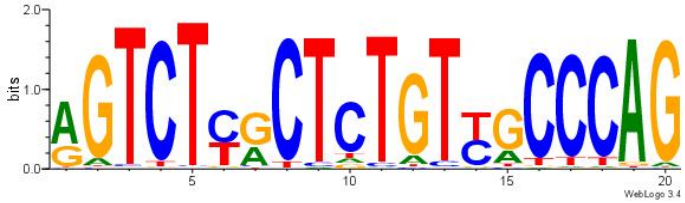

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147274

Alignment:
CCACCACAGCTCAAGGAGGC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

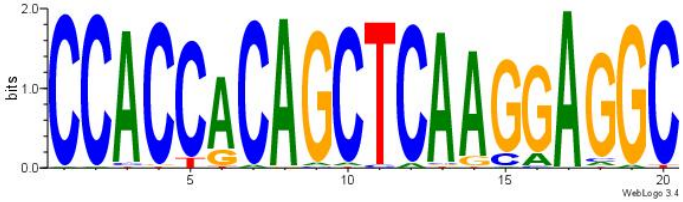

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

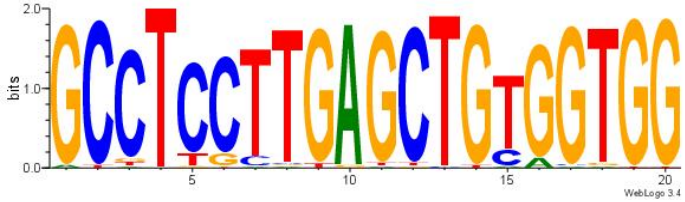

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148749

Alignment:
TYTGTCMTTTTGTGACTGGC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

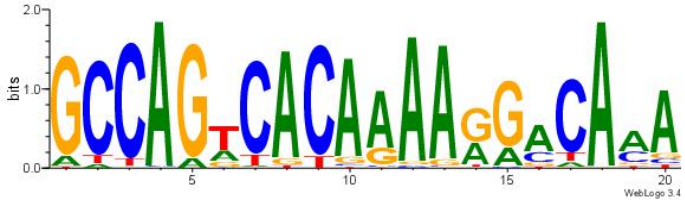

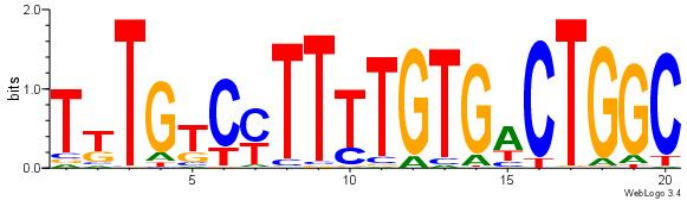

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149491

Alignment:

```
AAAAGTCCACAGTCCAAAGT
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

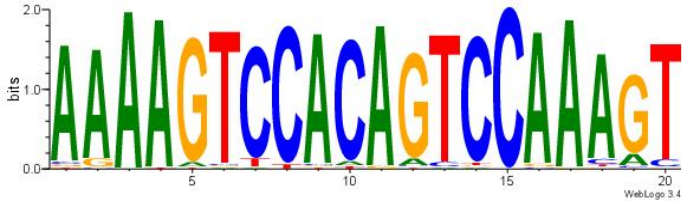

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

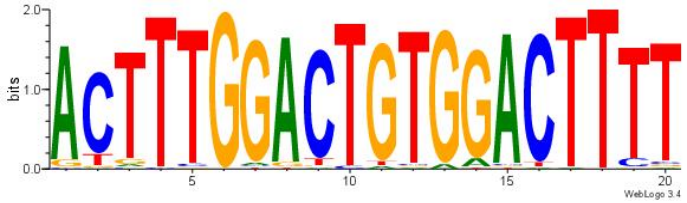

Dataset #: 1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149706

Alignment:

```
AGTGAGAACATRYRRTRTTT
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

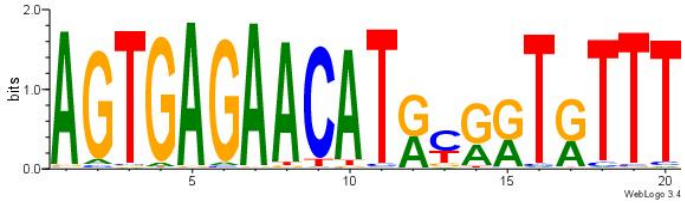

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

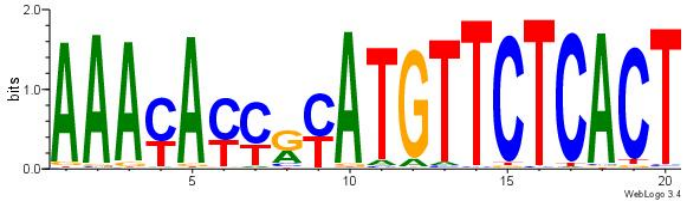

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149719

Alignment:
ACACATCACAAAGCAGTTTC
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

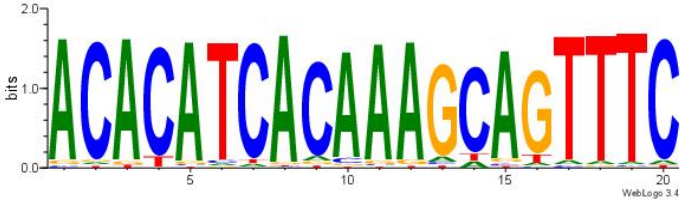

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

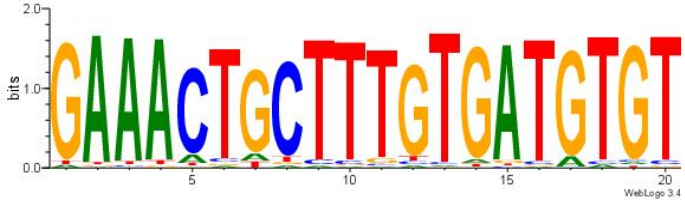

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149754

Alignment:
GTGTCKGGAGTTTGTTCCTT
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

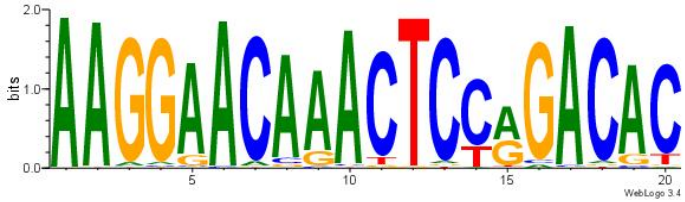

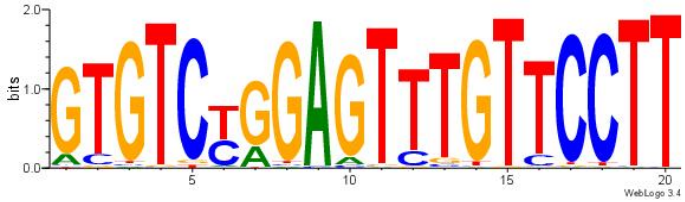

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150205

Alignment:

```
ACCTGGAAAATCGGGTCACT
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

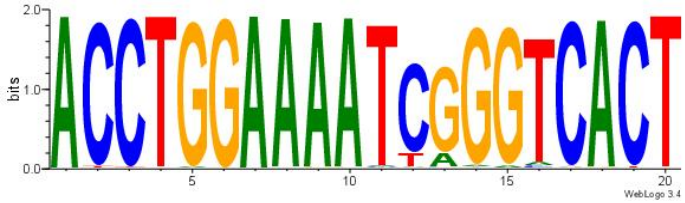

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

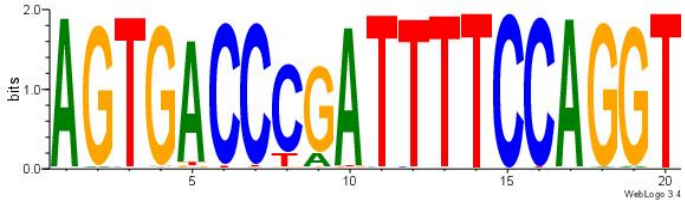

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150876

Alignment:

```
CRTGAGCCACYGYRCCYGGC
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

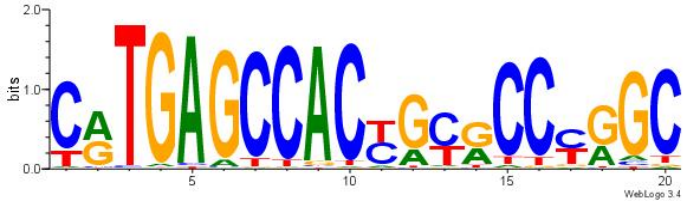

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

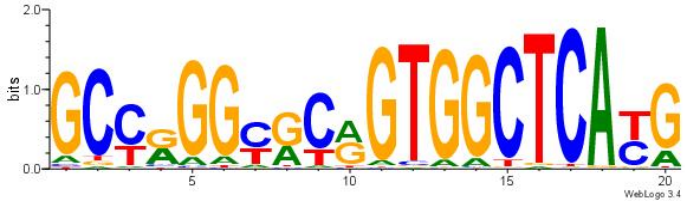

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.151641

Alignment:
CGTCGCTCACGCTGGGAGCT
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

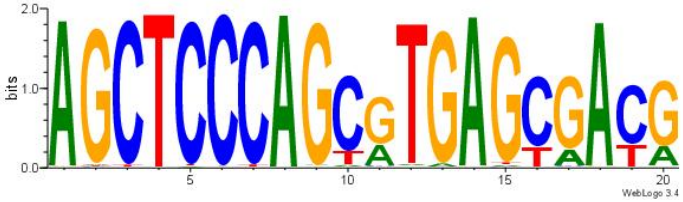

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

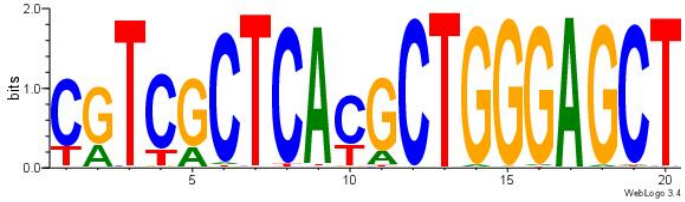

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.151925

Alignment:
AAATTAGGCCAATTAATAAC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

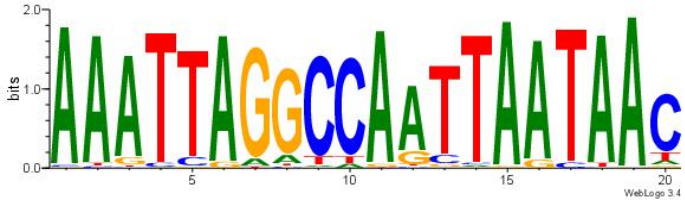

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152183

Alignment:

```
GCAAAKGACATGATYTCATT
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

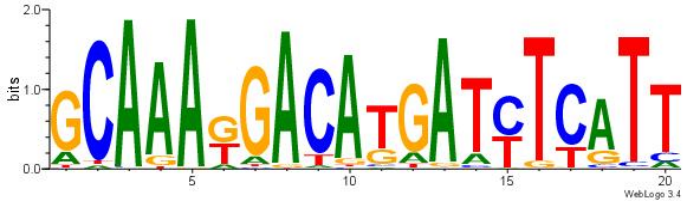

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

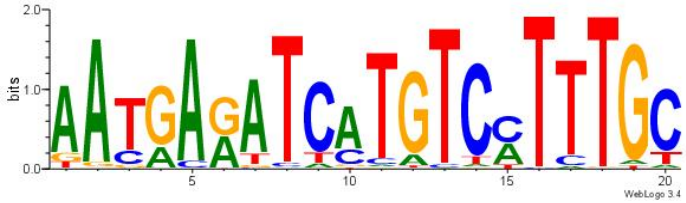

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153971

Alignment:

GCTGTGTGACCTTGGGCAAG

GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

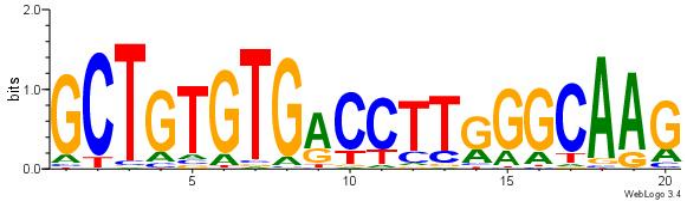

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

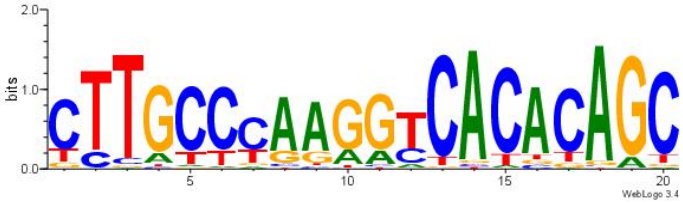

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.154177

Alignment:
AGCTGTGAGAAGAGGGCCAC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

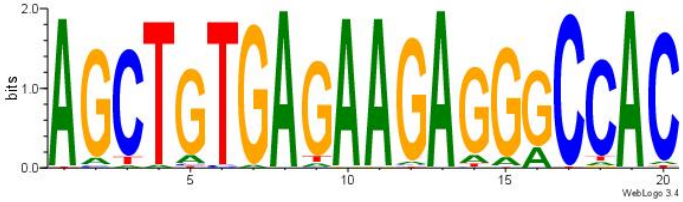

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

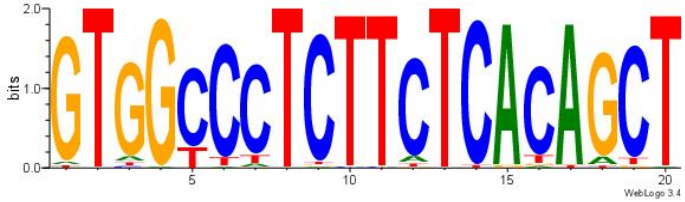

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.154255

Alignment:
CATTCTGGGGTCTGGAGGAY
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

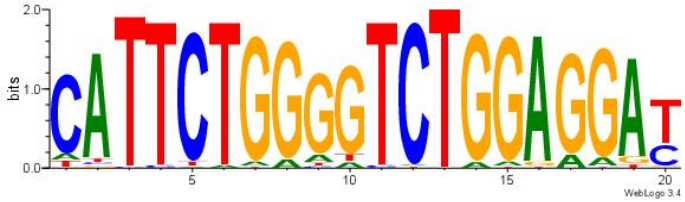

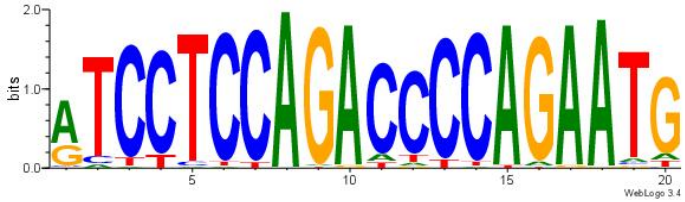

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154466

Alignment:

```
GCCTCTCCCTCCACACCTCC
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

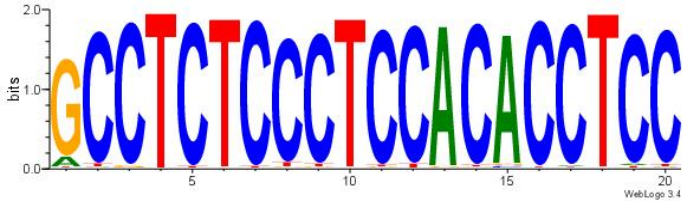

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

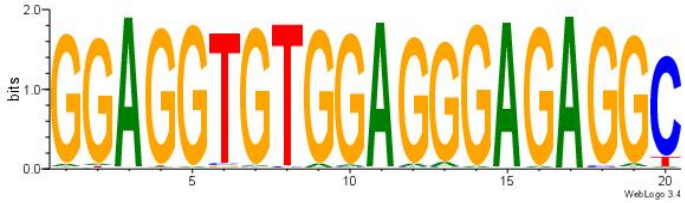

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156195

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

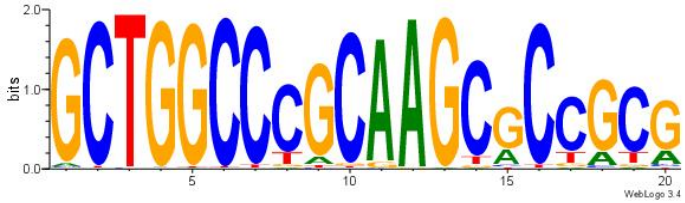

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

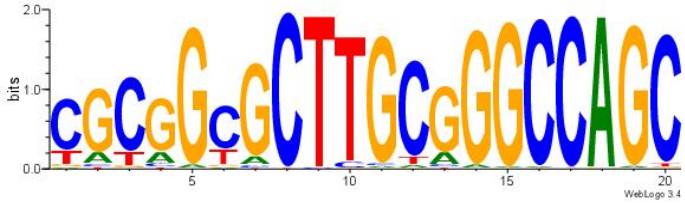

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.156452

Alignment:
AGGACTGAGGGTGCCYRGGG
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

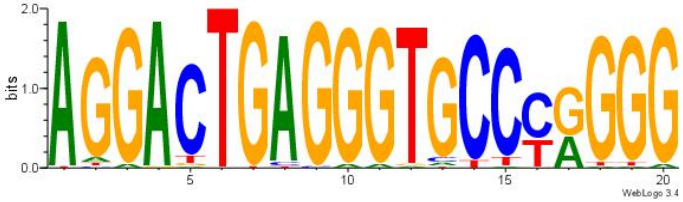

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

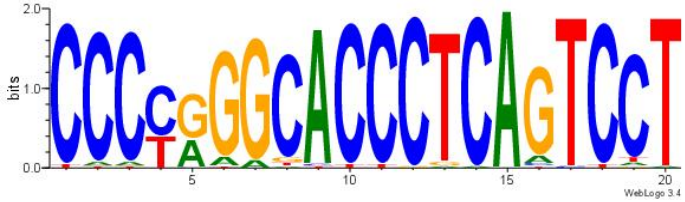

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156599

Alignment:
AGGTTTGTTACATAGGTAWA
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

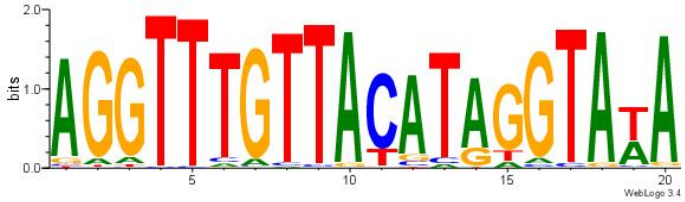

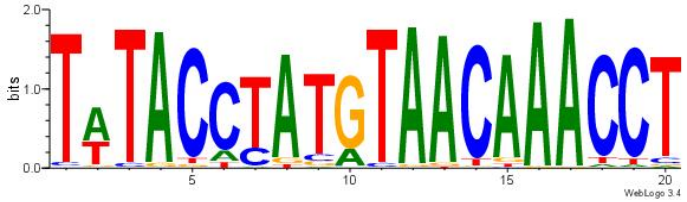

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15711

Alignment:

```
ATGGAATAYTATTCAGCCAT
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

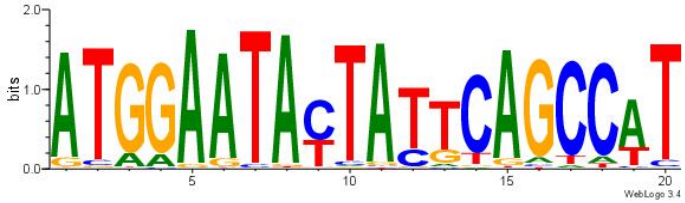

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

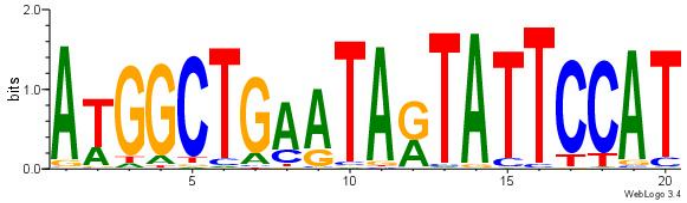

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158906

Alignment:
CAAGGGTATAYGAGTAGCTG
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

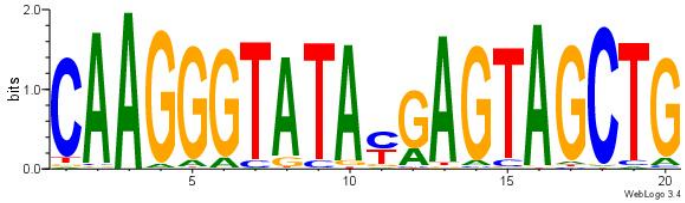

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

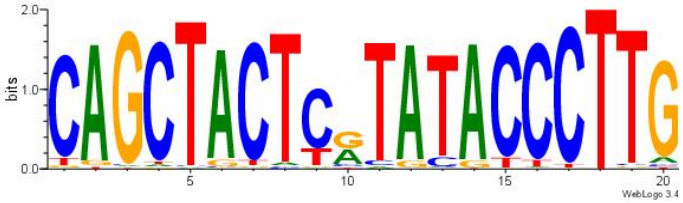

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.159713

Alignment:
CTGGCCCTCAATGGTTAAAC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

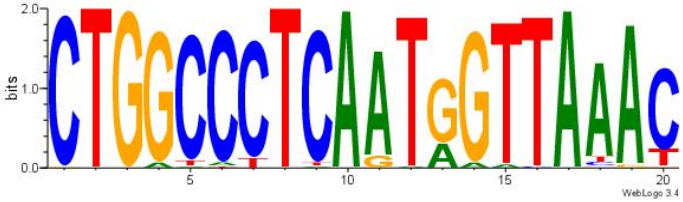

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

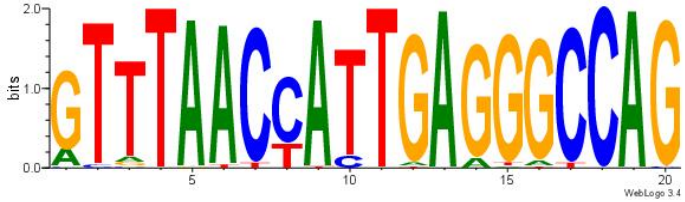

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.160021

Alignment:
CAACATGGATGRARCTGGAG
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

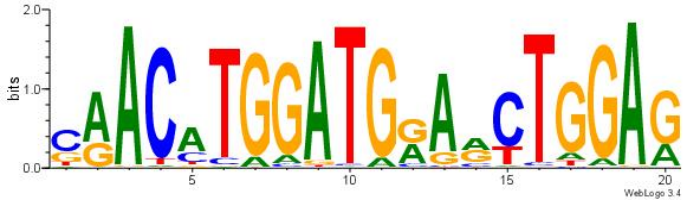

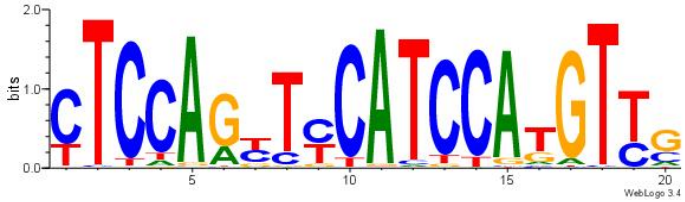

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160054

Alignment:
GAATACCTCCTGAAGGACCT
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

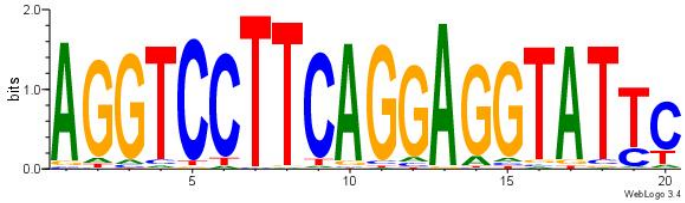

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

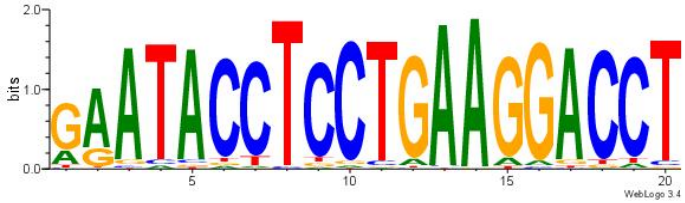

Dataset #: 1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162526

Alignment:

GACTGGCAGGCAGCTCCACC
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

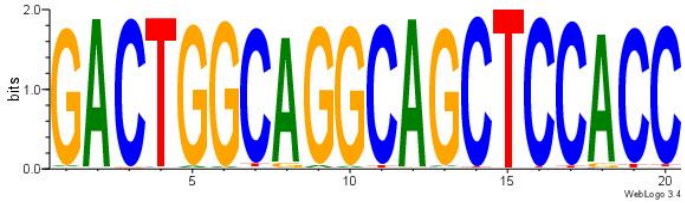

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

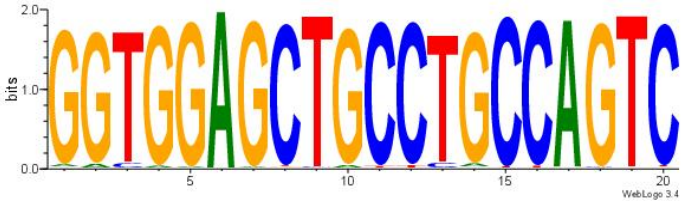

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.163546

Alignment:
TMGGGAGGCTGAGGCAGGAG
GCTCCACCCAGTTCGAGCTT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

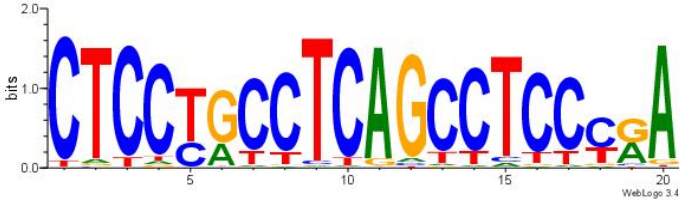

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

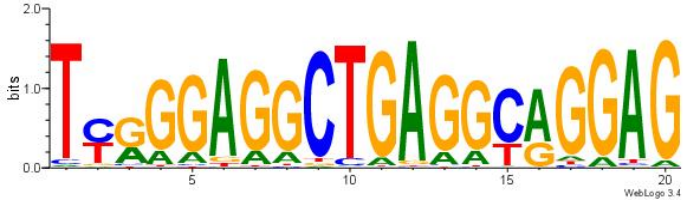

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.164045

Alignment:
ATGATCCAGCAATYCCACTH
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

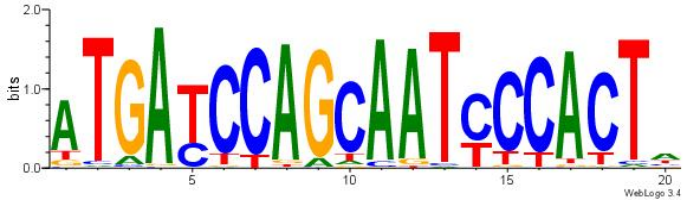

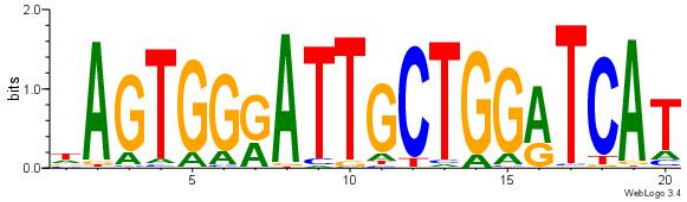

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164062

Alignment:

```
AAAATCACAAGCATTCCTAT
AAGCTCGAACTGGGTGGAGC
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

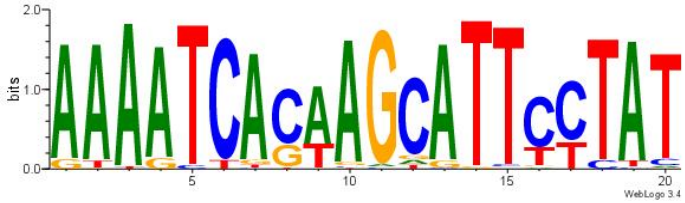

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

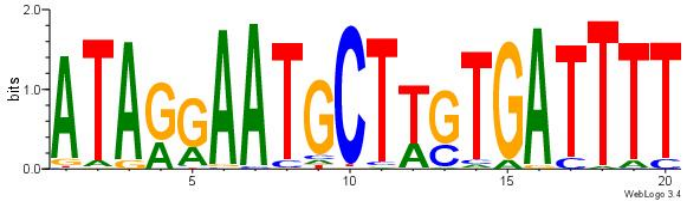

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164718

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GCTCCACCCAGTTCGAGCTT
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

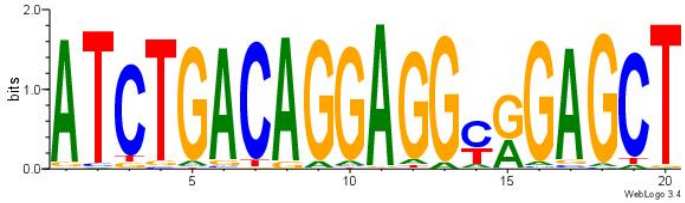

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

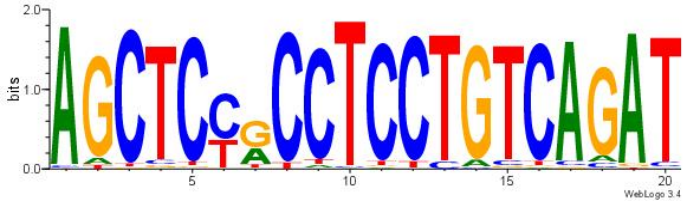

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.165778

Alignment:
AGAGCCAAATCATGARTGAA
AAGCTCGAACTGGGTGGAGC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

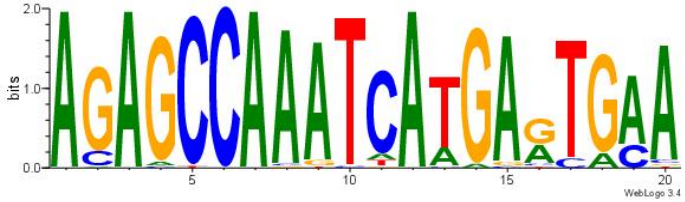

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

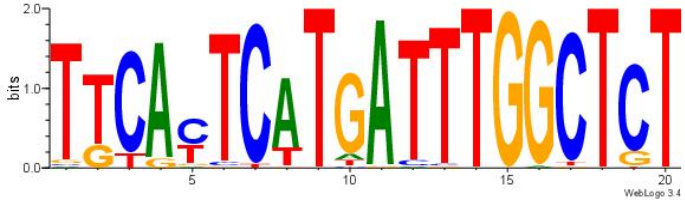

Dataset #: 1 Motif ID: 322 Motif name: Motif 322

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

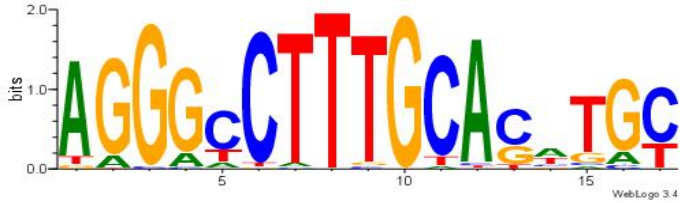

Reverse complement motif Consensus sequence:
GCAWSTGCAAAGGCCCT

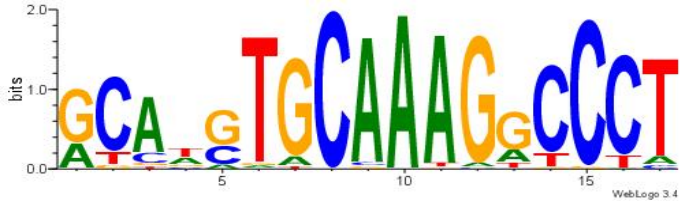

Best Matches for Motif ID 322 (Highest to Lowest)

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0779611

Alignment:

```
CAAGCCTSKGCAATGGCAGG
---GCAWSTGCAAAGGCCCT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

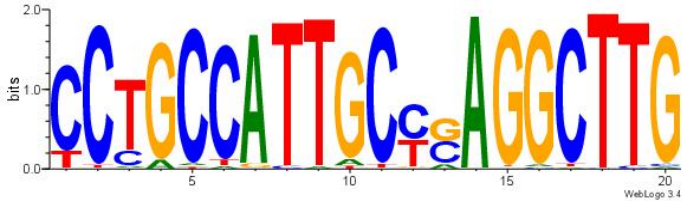

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

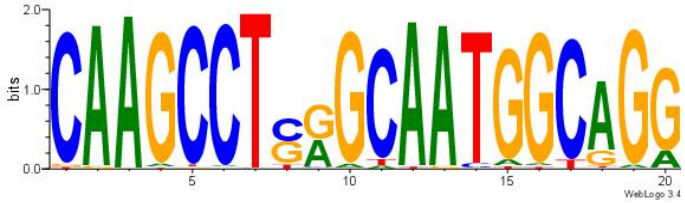

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0904024

Alignment:

ACTTTGGACTGTGGACTTTT
AGGGCCTTTGCASWTGC---

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

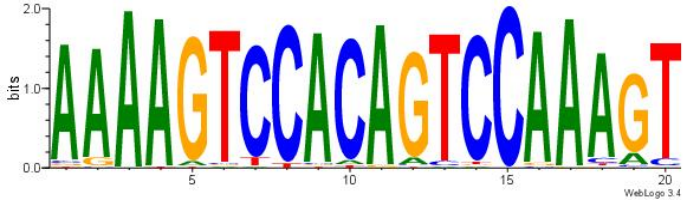

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

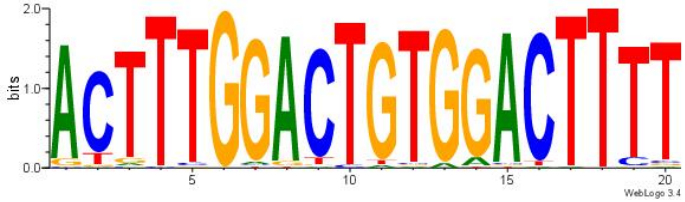

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0909504

Alignment:
AGGTTTGTTACATAGGTAWA
AGGGCCTTTGCASWTGC---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

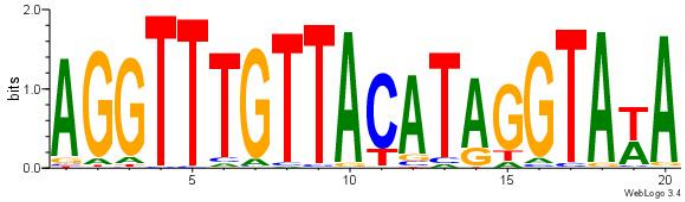

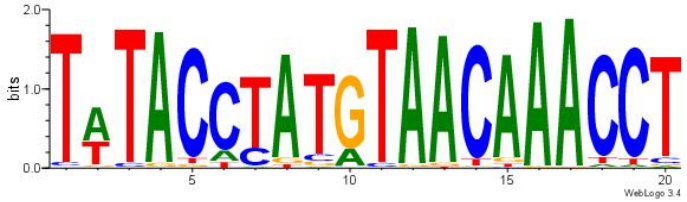

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0915142

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
-AGGGCCTTTGCASWTGC--
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

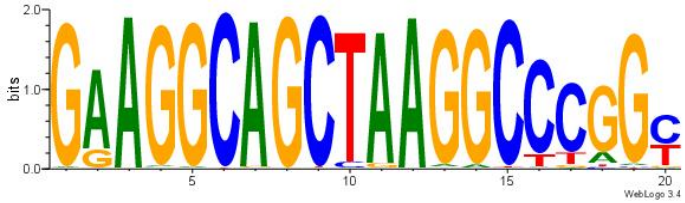

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

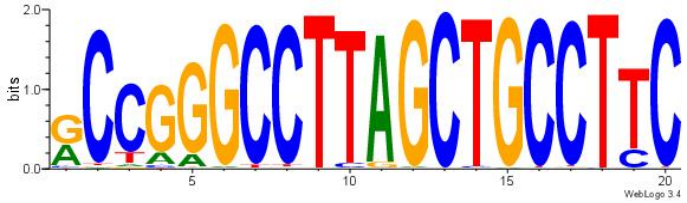

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0922727

Alignment:

```
AGTAGGTGCTCARTAAATRB
---AGGGCCTTTGCASWTGC
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

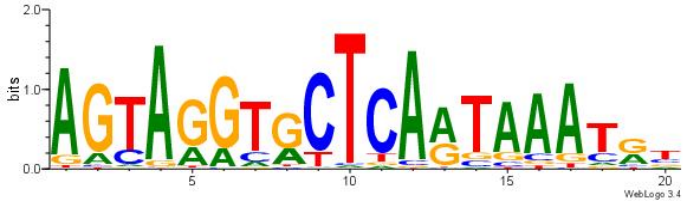

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

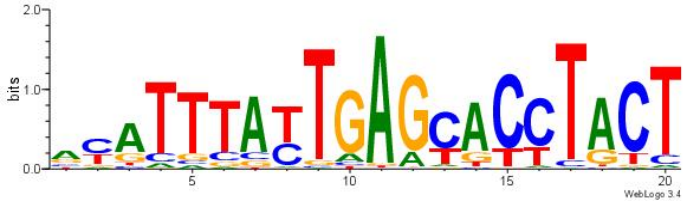

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.0933776

Alignment:
KACGGGCTTAARAAACGGC
-AGGGCCTTTGCASWTGC-

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

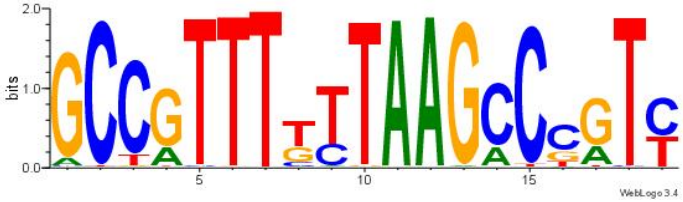

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

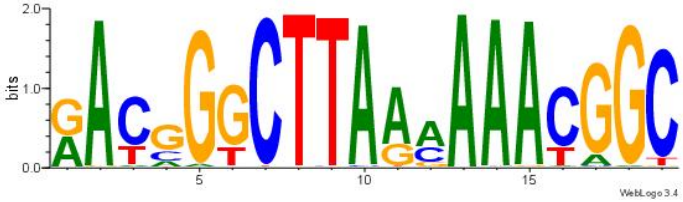

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.0937847

Alignment:
CAAASCKGTCATAGGCCAT
--GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

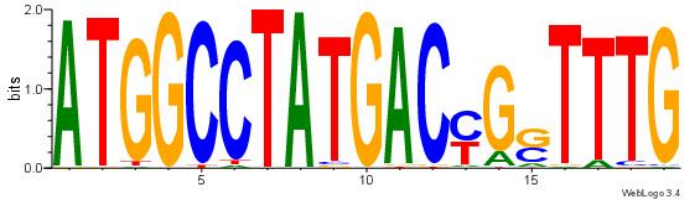

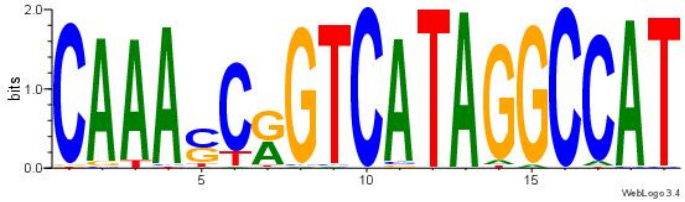

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0963114

Alignment:

```
TCKMGCCACTGCACTCCAGC
--AGGGCCTTTGCASWTGC-
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

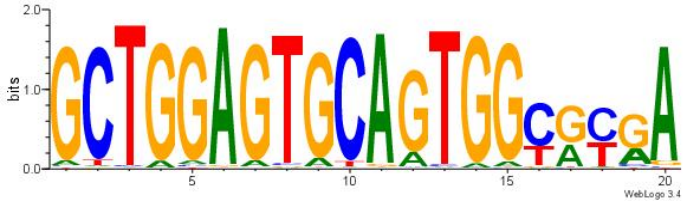

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

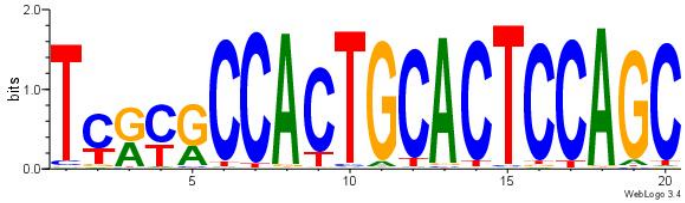

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0999052

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---GCAWSTGCAAAGGCCCT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

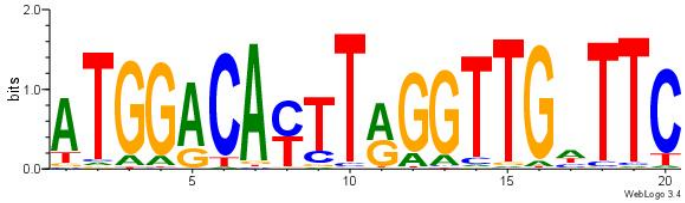

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

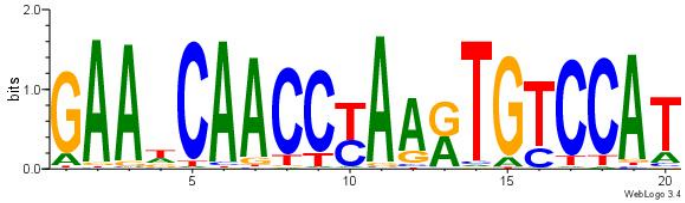

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.100112

Alignment:
AGCCYCTGGYAACCAYYAWT
--GCAWSTGCAAAGGCCCT-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

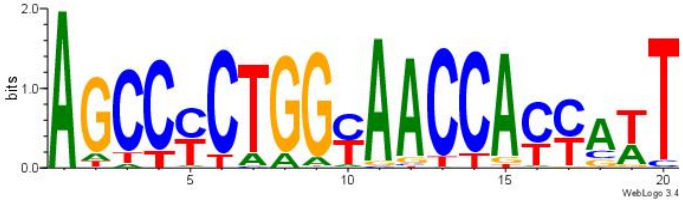

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

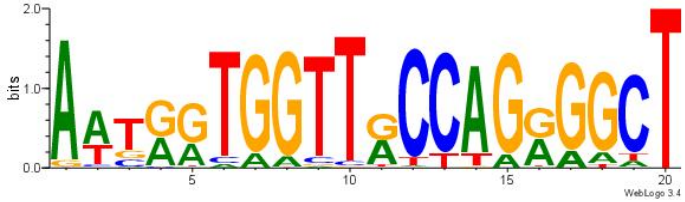

Dataset #: 1
Motif ID: 159
Motif name: Motif 159
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.10042

Alignment:
ACAGGCTTTGTGTGAGCA
AGGGCCTTTGCASWTGC-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence:
TGCTCACACAAAGCCTGT

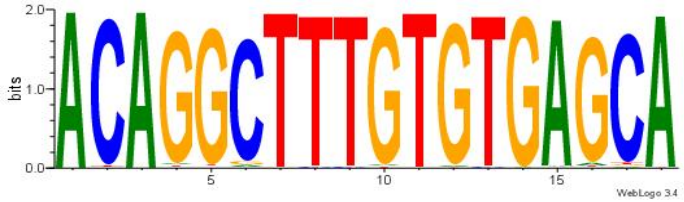

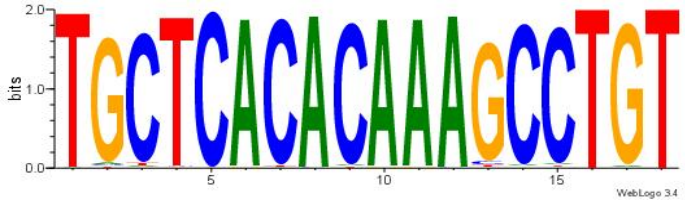

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.101141

Alignment:

```
CRTGAGCCACYGYRCCYGGC
--AGGGCCTTTGCASWTGC-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

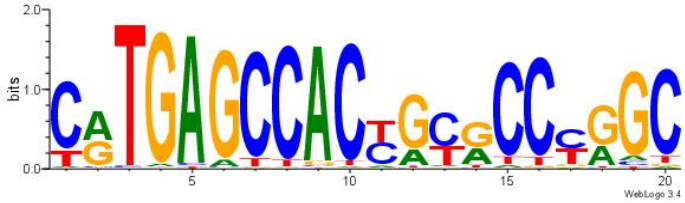

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

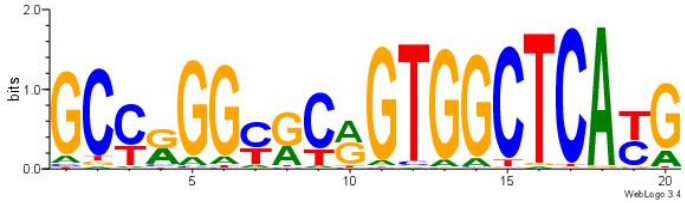

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.102734

Alignment:

```
GGGATTGTAAATACACCAAT
GCAWSTGCAAAGGCCCT---
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

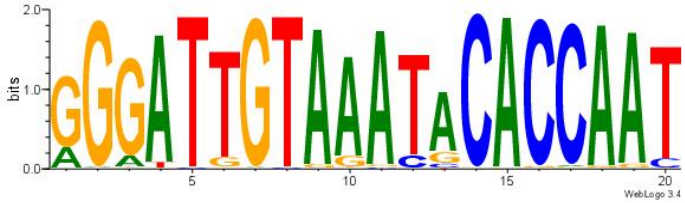

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.104989

Alignment:
CTCAGTGTTAATCTCCTGTC
---GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

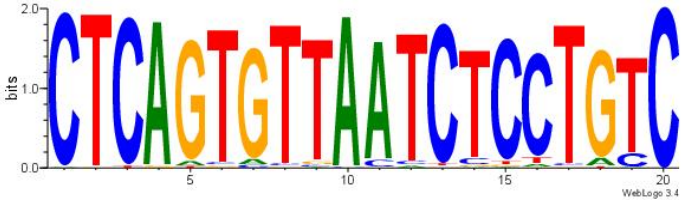

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

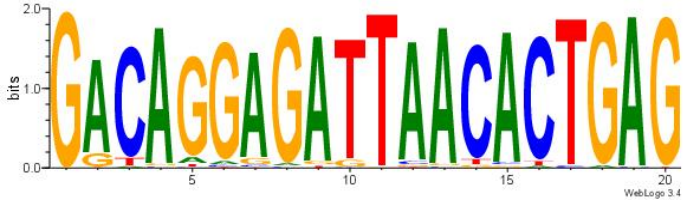

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.1051

Alignment:
HAGTGGKATTGCTGGATCAT
--AGGGCCTTTGCASWTGC-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

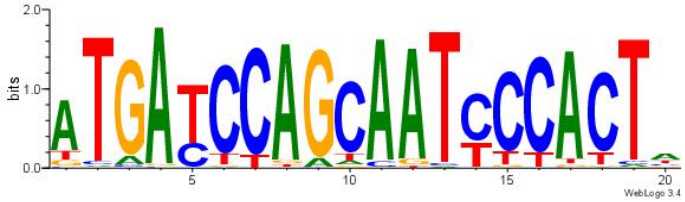

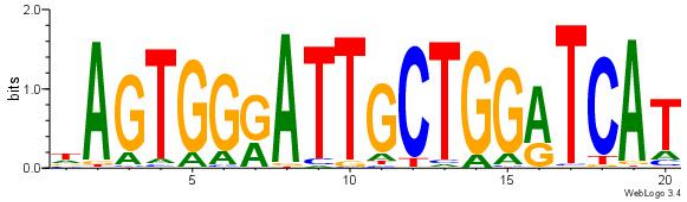

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.105265

Alignment:

```
GTGGCCCTCTTCTCACAGCT
--AGGGCCTTTGCASWTGC-
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

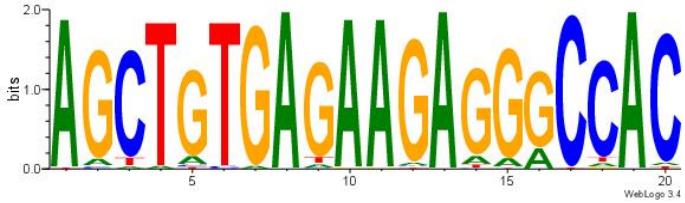

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

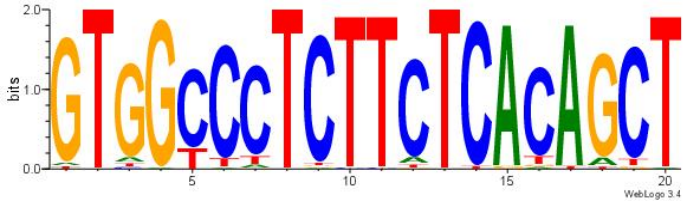

Dataset #:	1

Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.105957

Alignment:

```
AGGCTGTTTTACAGTTAAC
-AGGGCCTTTGCASWTGC-
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

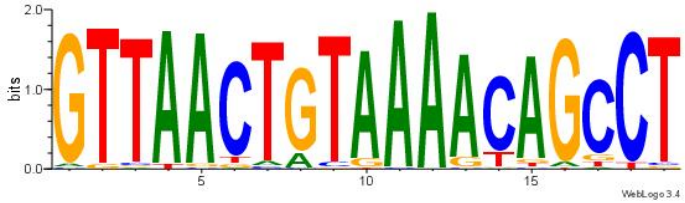

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

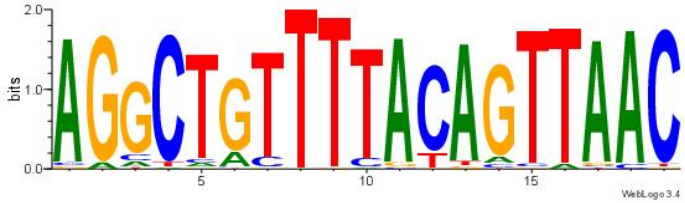

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.106172

Alignment:
TYTGTCMTTTTGTGACTGGC
-AGGGCCTTTGCASWTGC--

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

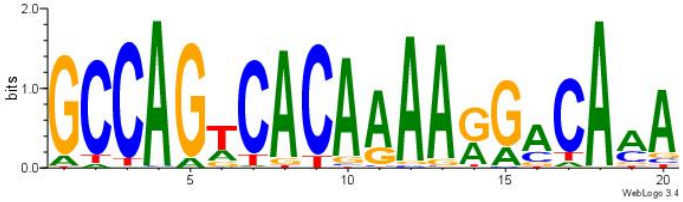

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

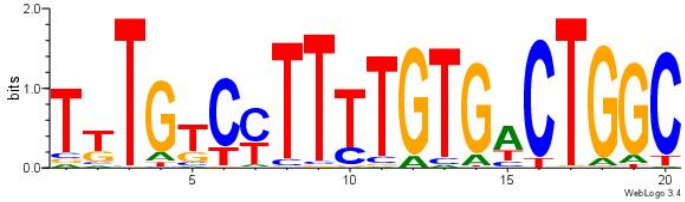

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.106568

Alignment:
ACACATCACAAAGCAGTTTC
---GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

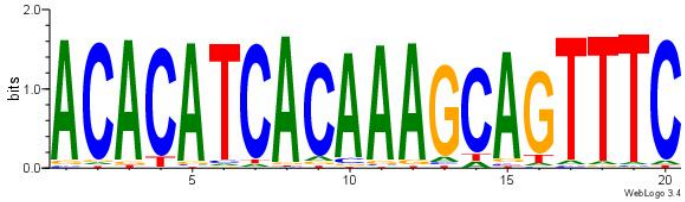

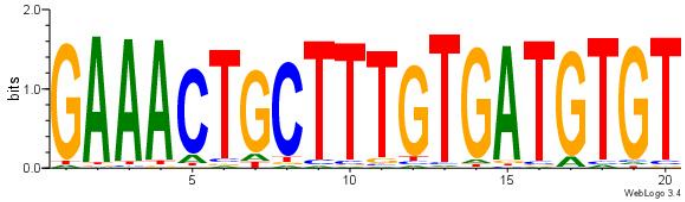

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.106715

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
GCAWSTGCAAAGGCCCT---
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

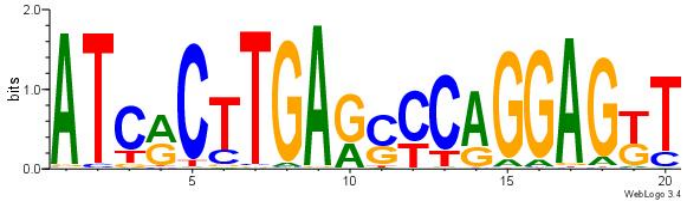

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

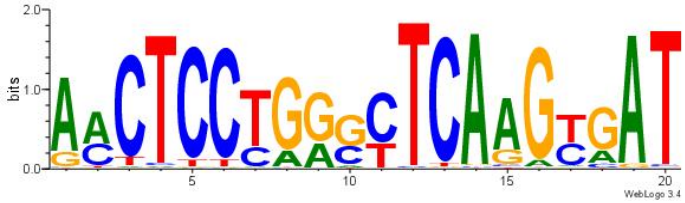

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.108183

Alignment:

```
GCACATGTAYCCYAGAACTT
-GCAWSTGCAAAGGCCCT--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

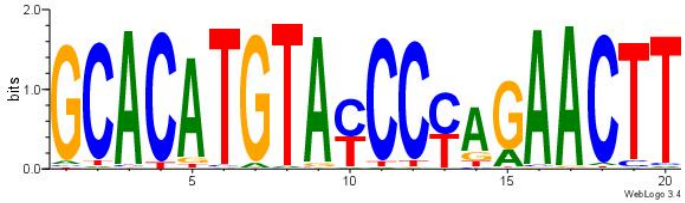

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

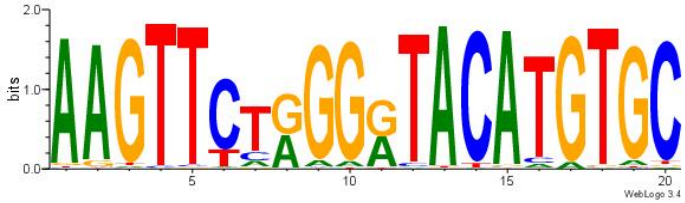

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.10942

Alignment:
MCCYGGCWSMGASGSTCCT
--GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

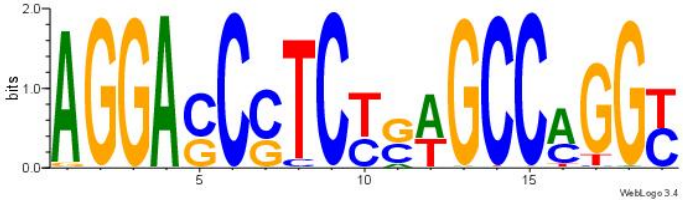

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

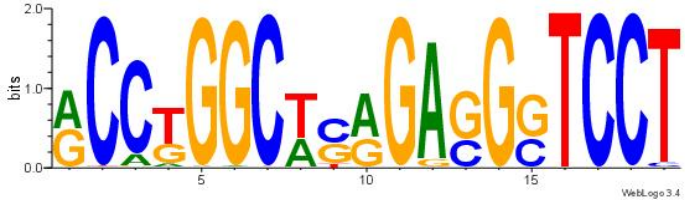

Dataset #: 1
Motif ID: 15
Motif name: Motif 15
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.109489

Alignment:
TCACKMGGGAAGCGCAAG
GCAWSTGCAAAGGCCCT-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

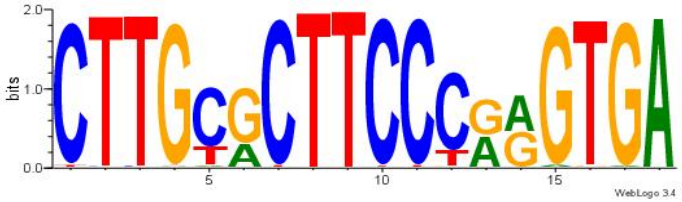

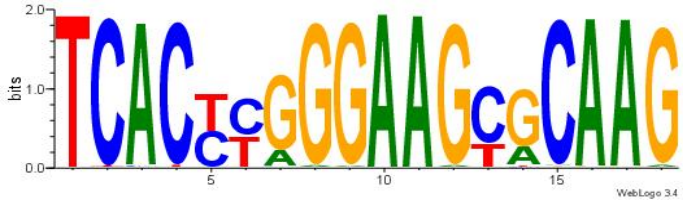

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.10954

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
--AGGGCCTTTGCASWTGC-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

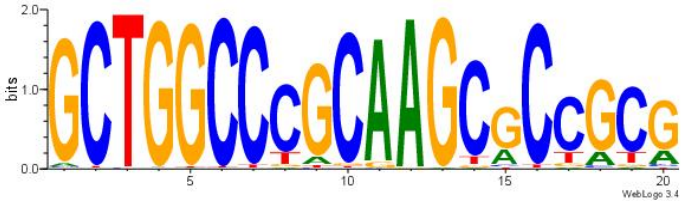

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

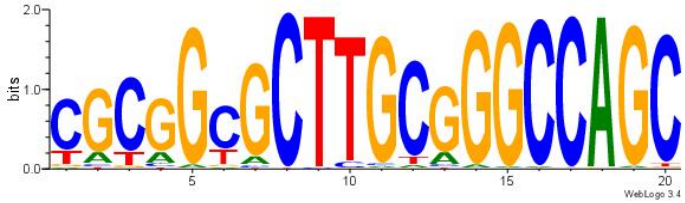

Dataset #:	1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.110016

Alignment:

```
TGGAGAACCTTTATGTCTAG
AGGGCCTTTGCASWTGC---
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

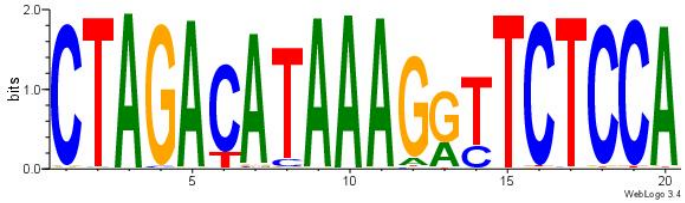

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

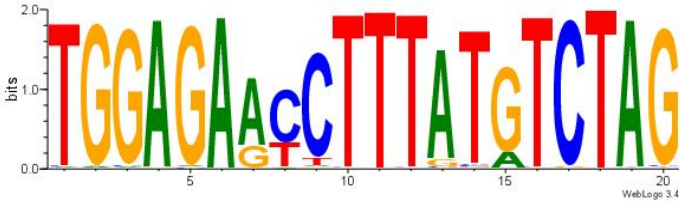

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.110265

Alignment:
MGTCTMKCTCTGTKGCCCAG
--GCAWSTGCAAAGGCCCT-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

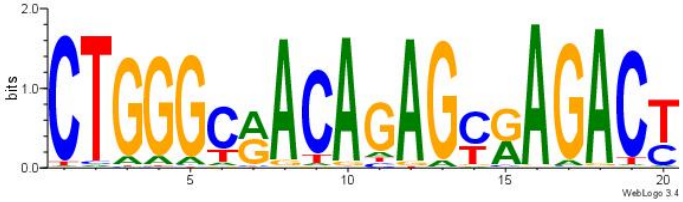

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

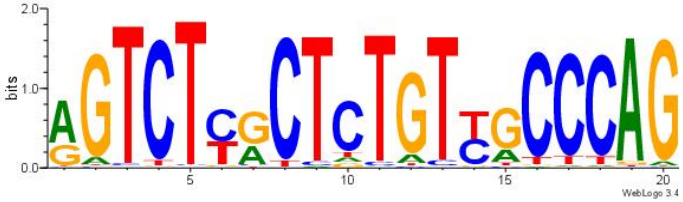

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.110996

Alignment:
GAATACCTCCTGAAGGACCT
---GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

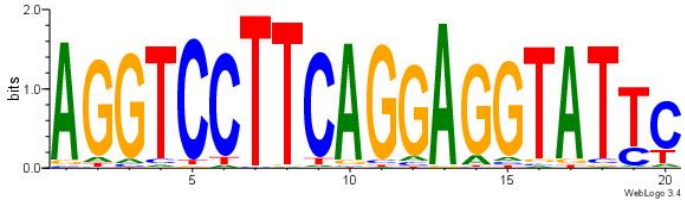

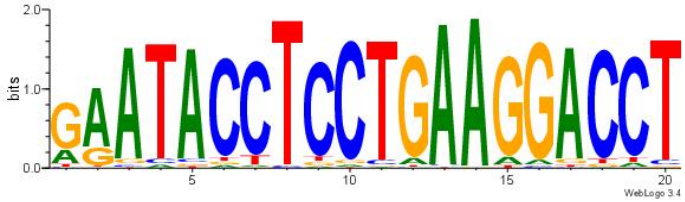

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.112828

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-AGGGCCTTTGCASWTGC--
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

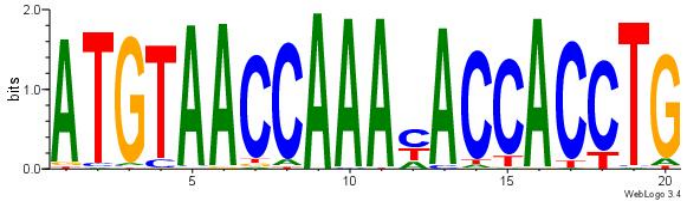

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

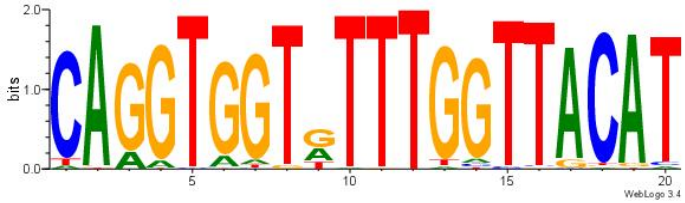

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.112947

Alignment:
CGAGCCCTGCCCCGCGG
AGGGCCTTTGCASWTGC

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

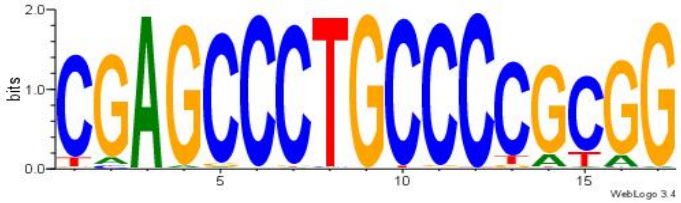

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

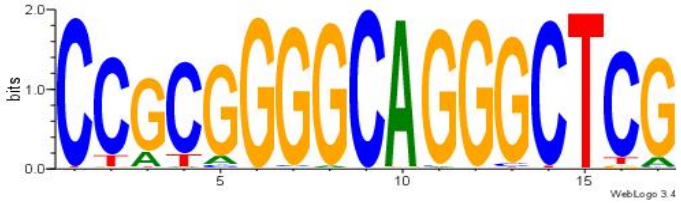

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.113013

Alignment:
GCGMGCGGGAACCGGGGCT
--GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

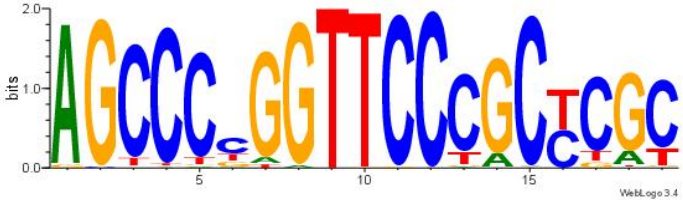

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

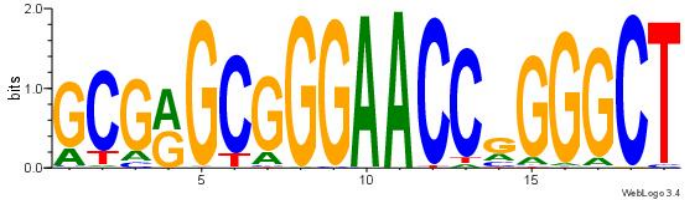

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.113188

Alignment:
AGAGCCAAATCATGARTGAA
AGGGCCTTTGCASWTGC---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

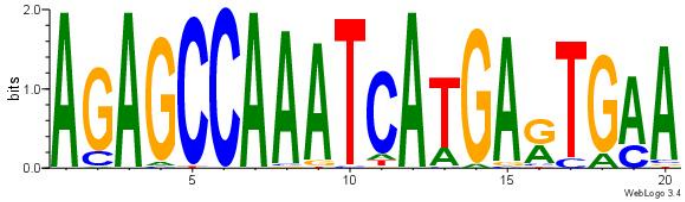

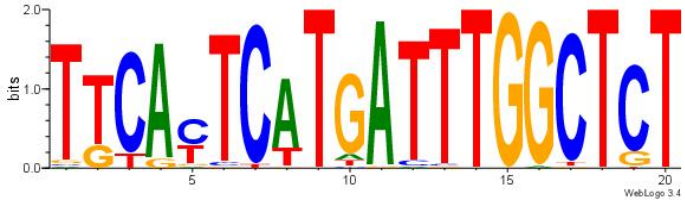

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.113218

Alignment:

```
GAAAGGGAACTCCCTGACCC
---AGGGCCTTTGCASWTGC
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

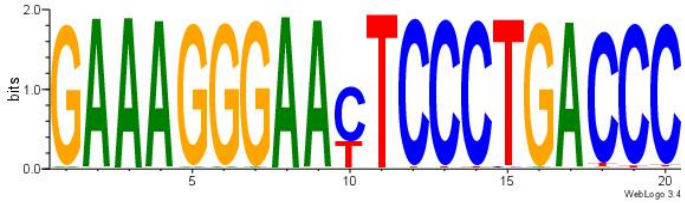

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

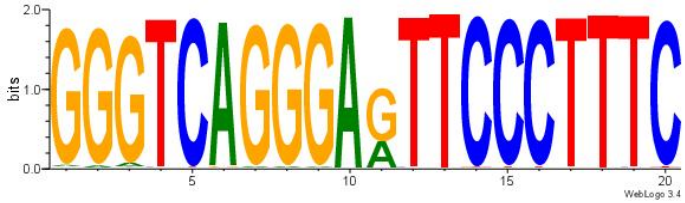

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.113506

Alignment:

```
ACATCMTCTGAAATCTAGG
--AGGGCCTTTGCASWTGC
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

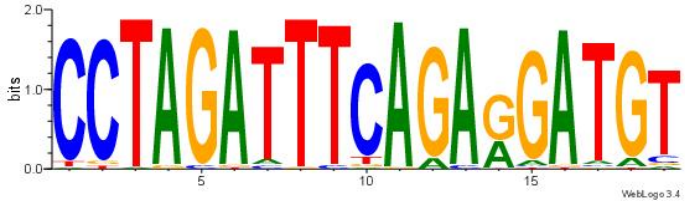

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

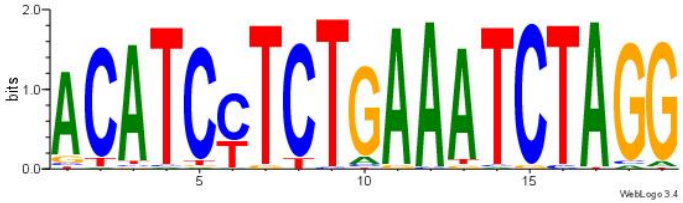

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.113759

Alignment:
CTGGGCTCCTGAGTCTGGTG
-AGGGCCTTTGCASWTGC--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

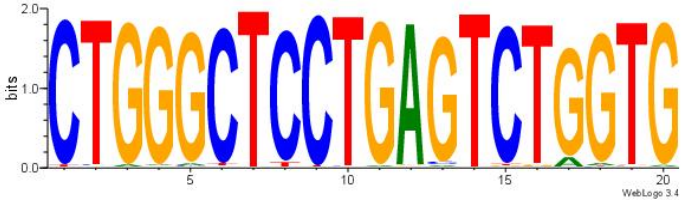

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

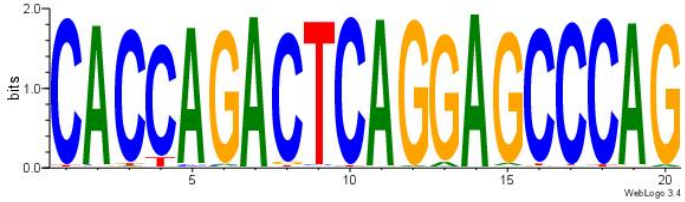

Dataset #: 1
Motif ID: 70
Motif name: Motif 70
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.114373

Alignment:
GCAGCAMTATTCACAATAG
-AGGGCCTTTGCASWTGC-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

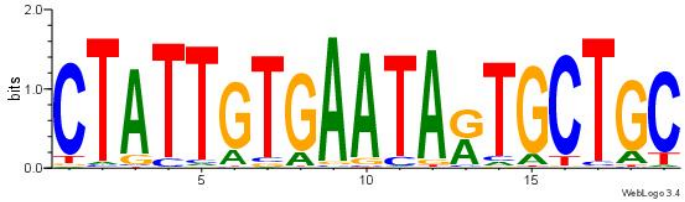

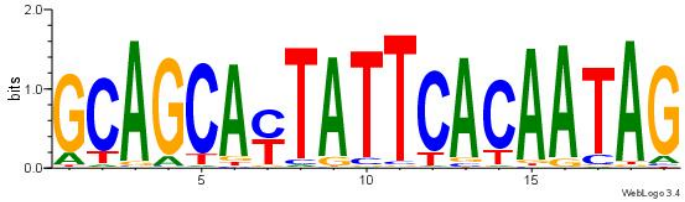

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.114435

Alignment:

```
CAAGGGTATAYGAGTAGCTG
-AGGGCCTTTGCASWTGC--
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

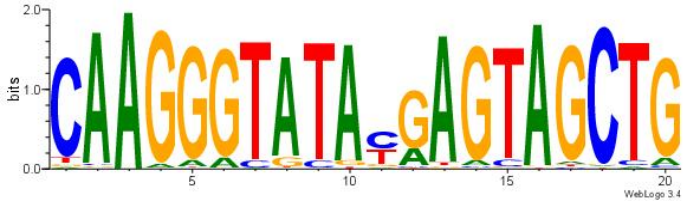

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

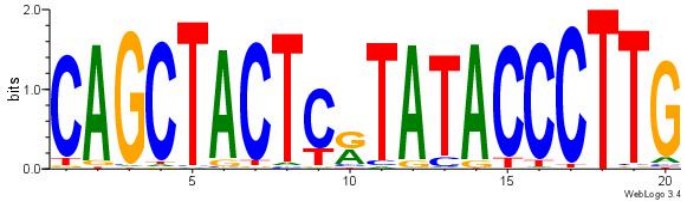

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.114589

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
---AGGGCCTTTGCASWTGC
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

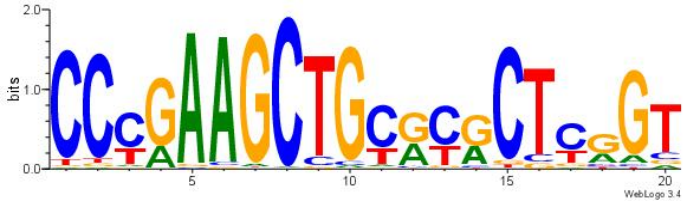

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

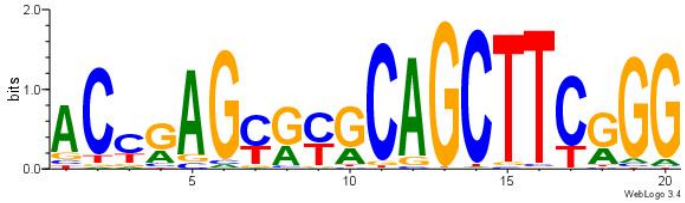

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.11479

Alignment:
CGGCGCTGMGCTCGATTTCT
---AGGGCCTTTGCASWTGC

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

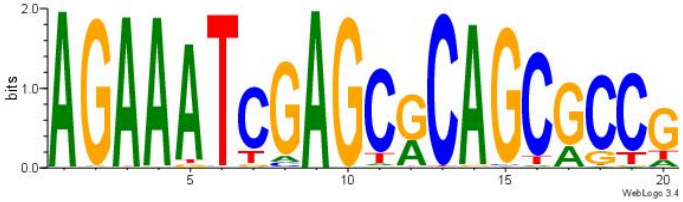

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

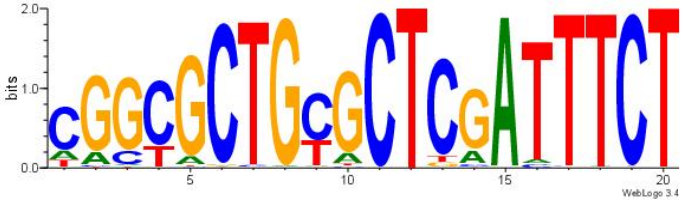

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.115352

Alignment:
ACACACAYACACACACACA
GCAWSTGCAAAGGCCCT--

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

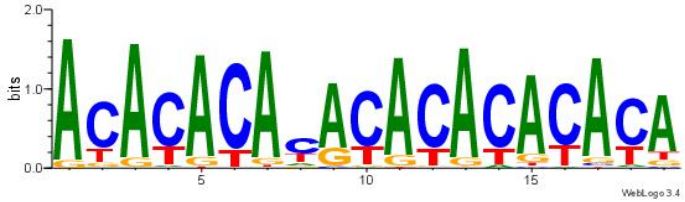

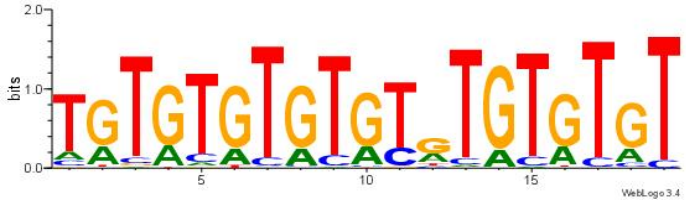

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.115466

Alignment:

```
TAMGACCTCAGGTCCTCAG
-AGGGCCTTTGCASWTGC-
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

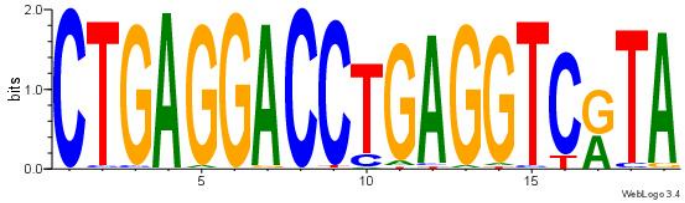

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

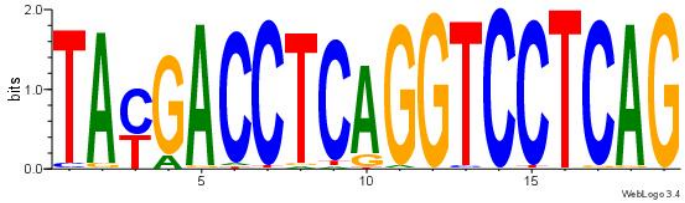

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.115536

Alignment:

```
AAGACCTTCCAGTGGGACAA
AGGGCCTTTGCASWTGC---
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

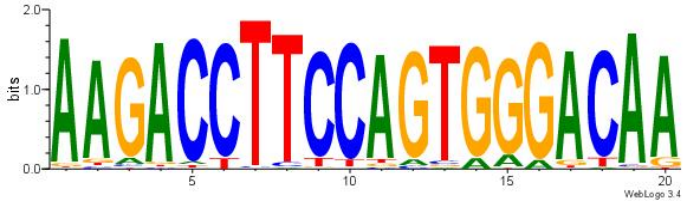

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

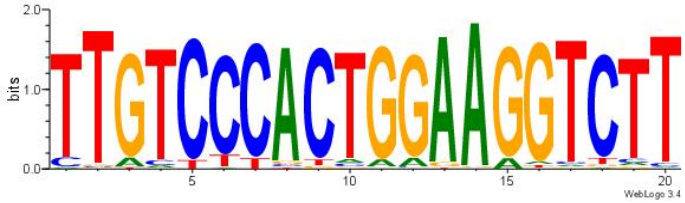

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.115766

Alignment:
AGATGCCAGCCAGAGCTCT
GCAWSTGCAAAGGCCCT--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

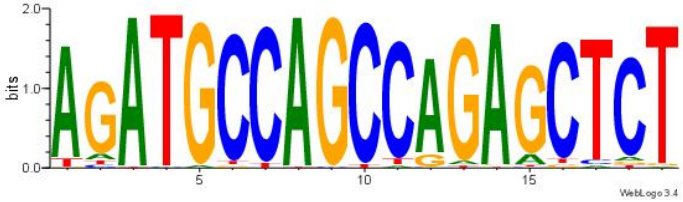

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

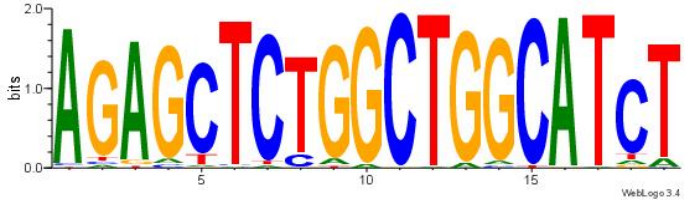

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.115987

Alignment:
TAAAAGACTACAWATTGGGT
--AGGGCCTTTGCASWTGC-

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

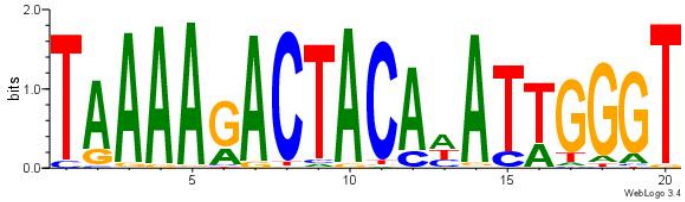

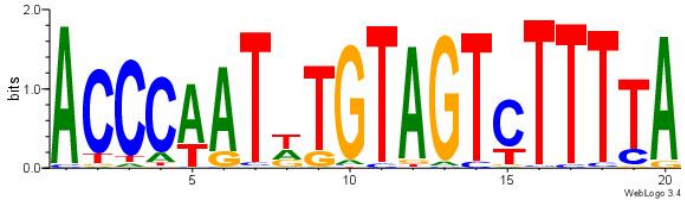

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.116114

Alignment:
TCCTATGAGAATCTAATG
GCAWSTGCAAAGGCCCT-

Original motif Consensus sequence: CATTAGATTCTCATAGGA

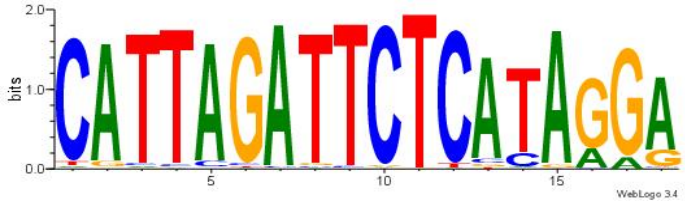

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

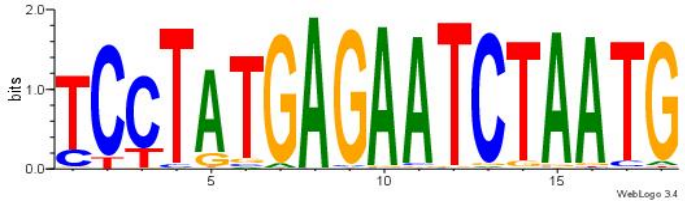

Dataset #: 1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.117528

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
---AGGGCCTTTGCASWTGC
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

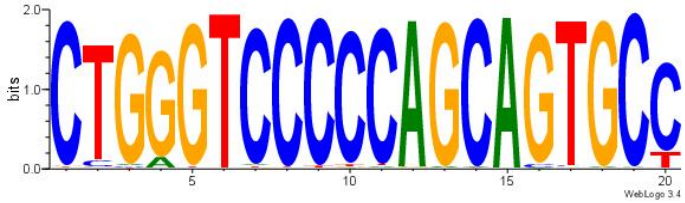

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

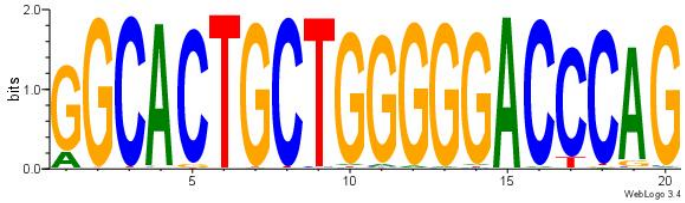

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.117655

Alignment:
GGGAGGTGTCTCCCAGTCAG
AGGGCCTTTGCASWTGC---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

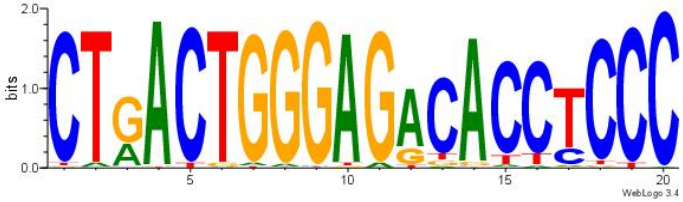

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

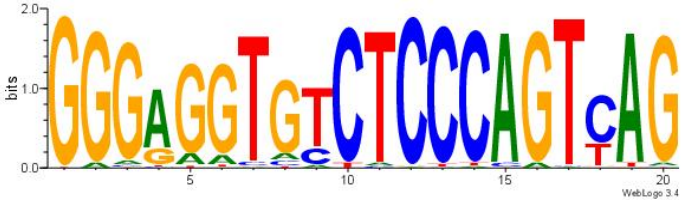

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.118428

Alignment:
CAACATGGATGRARCTGGAG
---GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

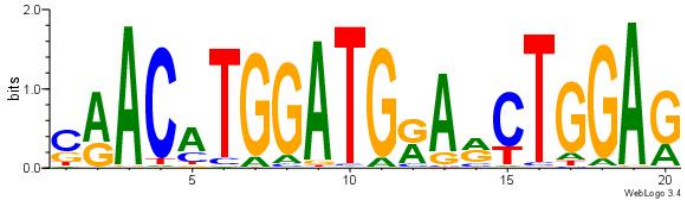

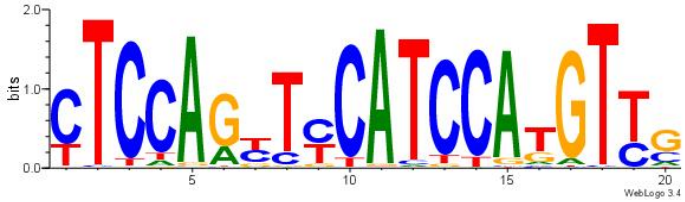

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.119048

Alignment:
AGTGTTTCCAAMCTGCT
GCAWSTGCAAAGGCCCT

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

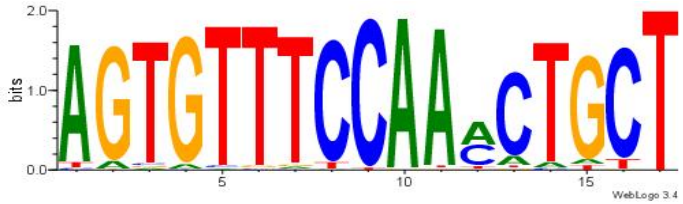

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

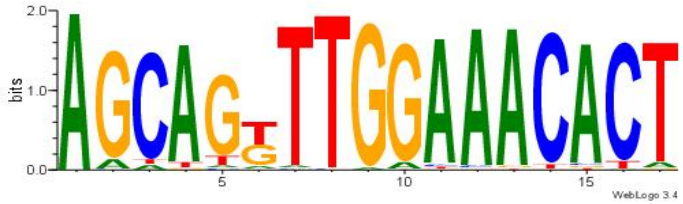

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.119212

Alignment:

```
AAGCAGGGCGAGGCATTGCC
---AGGGCCTTTGCASWTGC
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

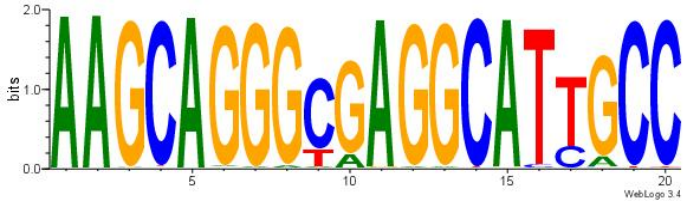

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

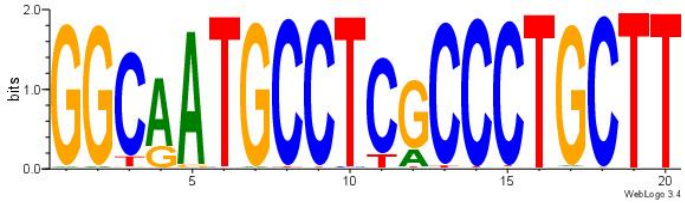

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.119425

Alignment:
AAGAGGTTTAATTGRCTCA
-GCAWSTGCAAAGGCCCT-

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

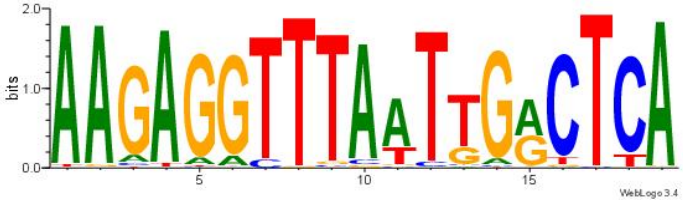

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

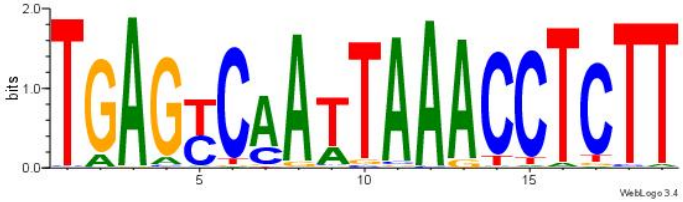

Dataset #: 1 Motif ID: 323 Motif name: Motif 323

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

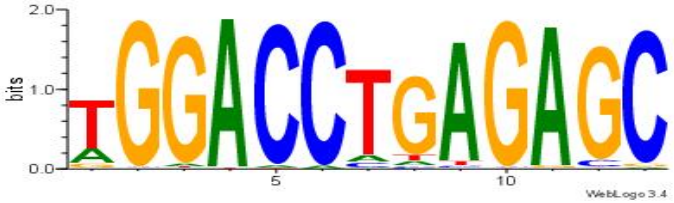

Best Matches for Motif ID 323 (Highest to Lowest)

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0533584

Alignment:

```
CTGAGGACCTGAGGTCRTA
---TGGACCTGAGAGC---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

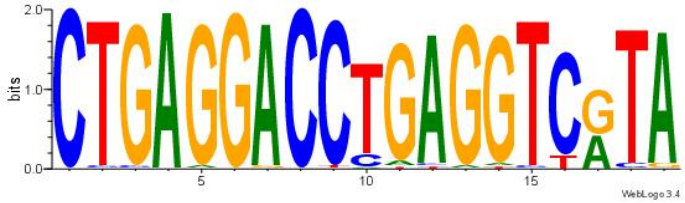

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

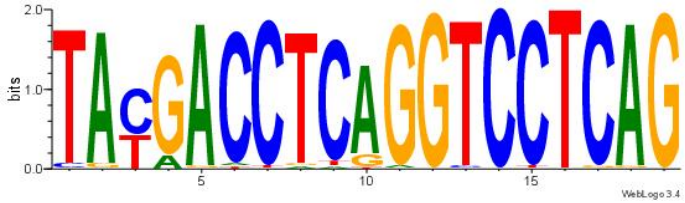

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0809407

Alignment:

```
GACTGGCAGGCAGCTCCACC
-----GCTCTCAGGTCCA--
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

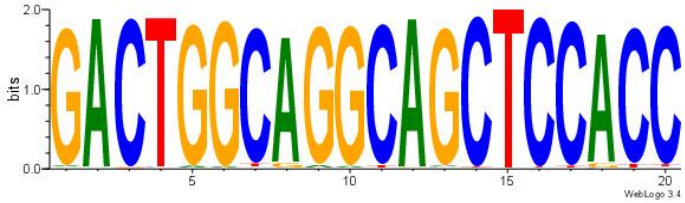

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

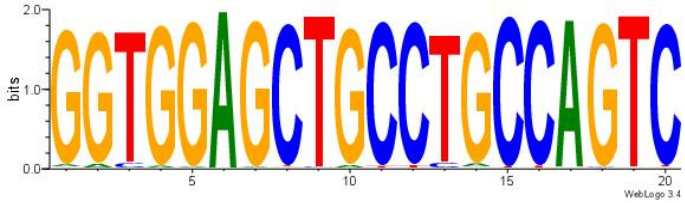

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0818999

Alignment:

```
CTGGGCRACAGAGYRAGACY
------TGGACCTGAGAGC-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

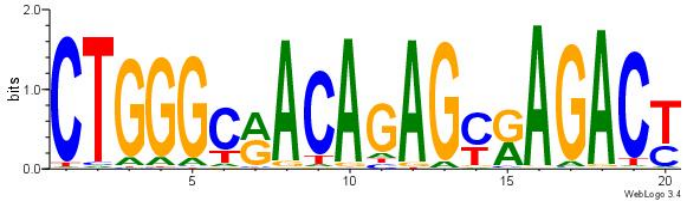

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

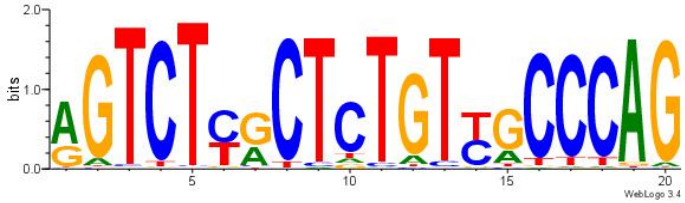

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0879728

Alignment:

```
GCACATGTAYCCYAGAACTT
--TGGACCTGAGAGC-----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

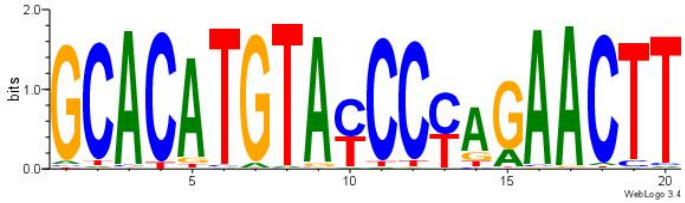

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

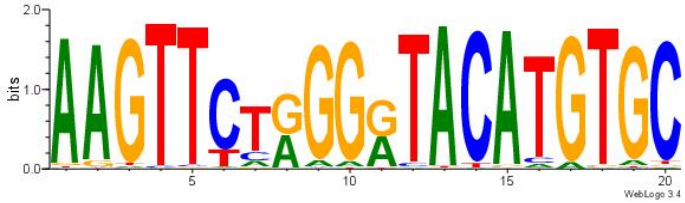

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0895644

Alignment:
GCTCTGAAGGTCC
GCTCTCAGGTCCA

Original motif Consensus sequence: GCTCTGAAGGTCC

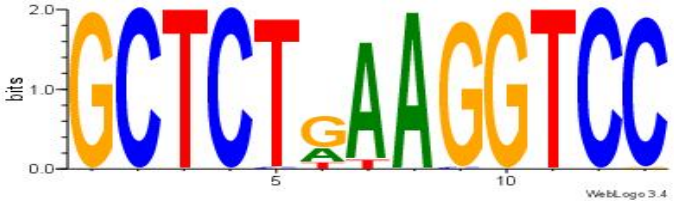

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

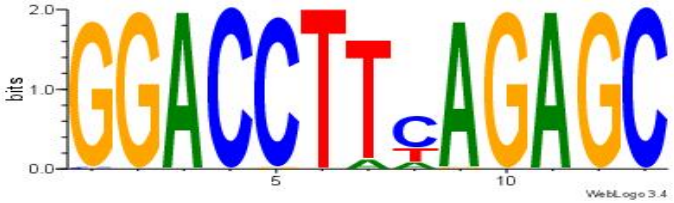

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0896249

Alignment:
AATGACCAATTGAGAGC
TGGACCTGAGAGC----

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

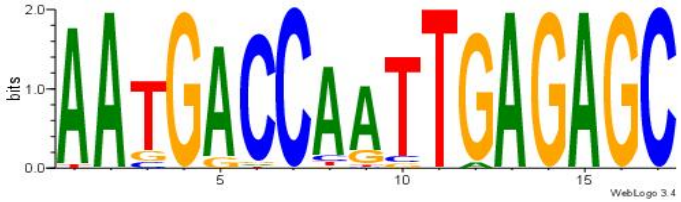

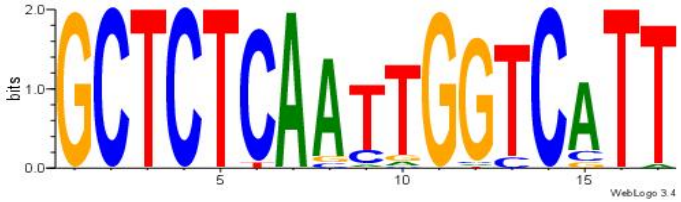

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0931196

Alignment:

```
CGTCGCTCACGCTGGGAGCT
------TGGACCTGAGAGC-
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

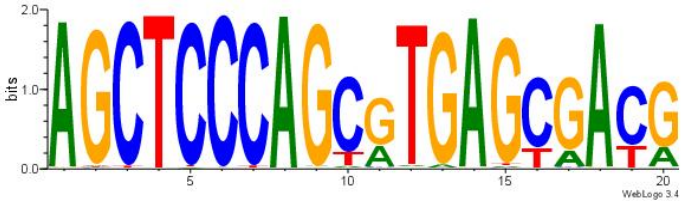

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

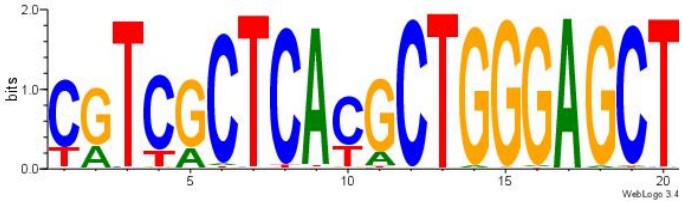

Dataset #:	1

Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0933306

Alignment:

```
KGCAACCTAGATCCCT
TGGACCTGAGAGC---
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

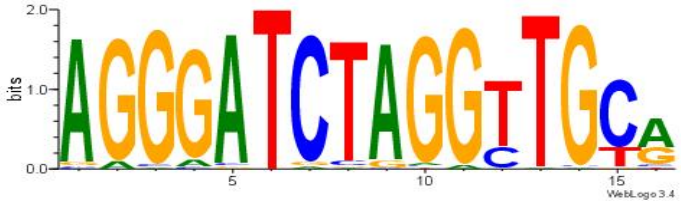

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

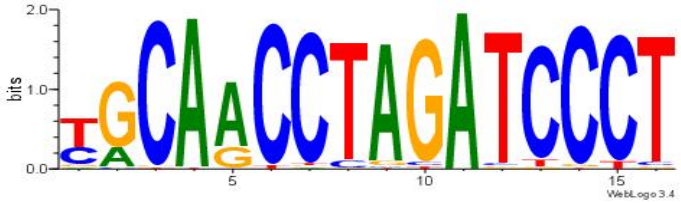

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13

Similarity score: 0.0935679

Alignment:
AAAGCTGGAGCTATTATCTA
-----TGGACCTGAGAGC--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

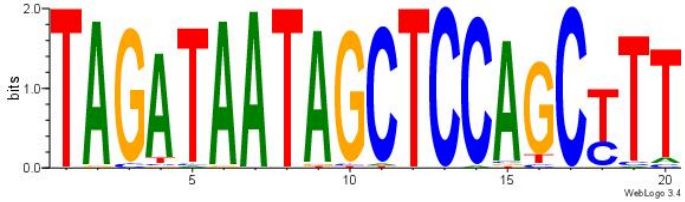

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

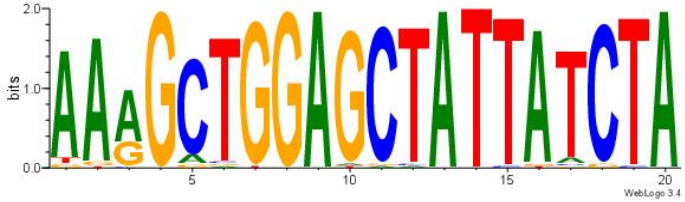

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0939474

Alignment:
CCCGAAGCTGCRYRCTCGGT
-----TGGACCTGAGAGC--

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

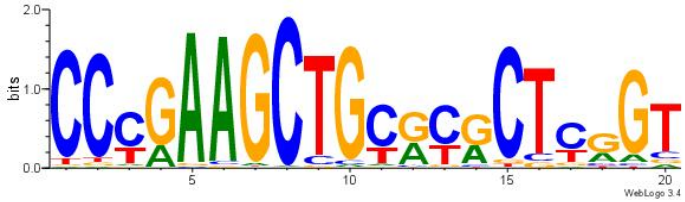

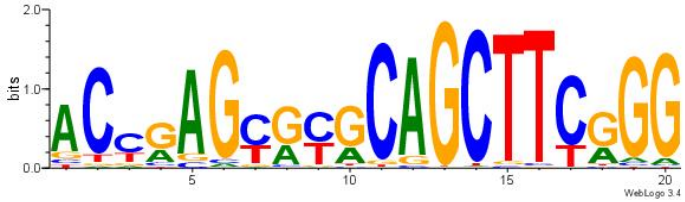

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0951452

Alignment:

```
TCTCTGAGCCTCAGTT
GCTCTCAGGTCCA---
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

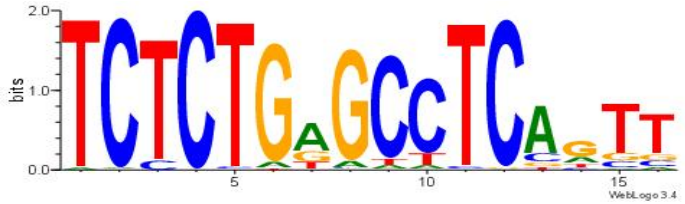

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

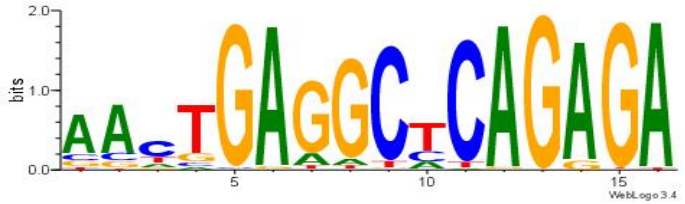

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0955095

Alignment:

```
AGAAATCGAGCRCAGCGCCG
--TGGACCTGAGAGC-----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

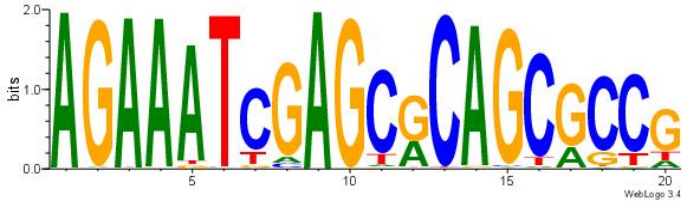

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

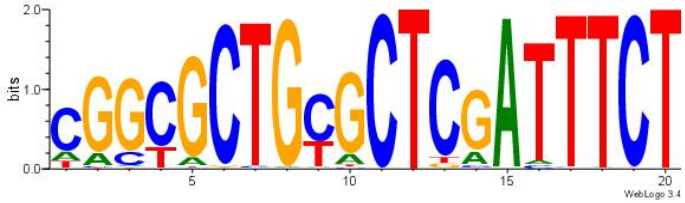

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.095917

Alignment:
AAGTCTCCCAATTACAACT
---GCTCTCAGGTCCA---

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

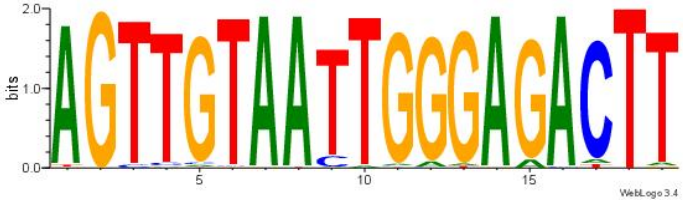

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

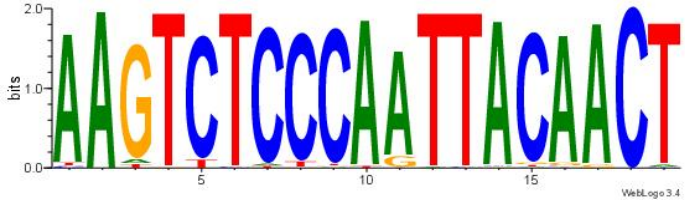

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0962378

Alignment:
GCAAAKGACATGATYTCATT
---TGGACCTGAGAGC----

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

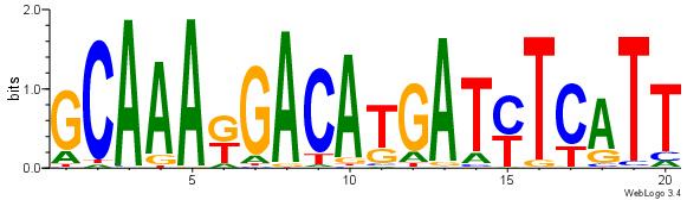

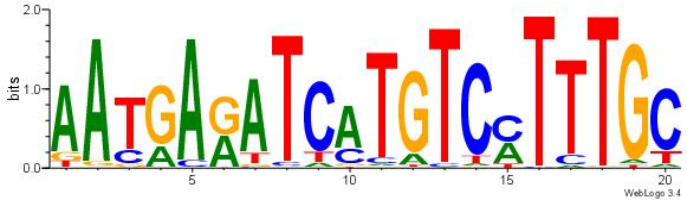

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0972909

Alignment:

```
TTGGAGGTTCTAGCAGGG
-TGGACCTGAGAGC----
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

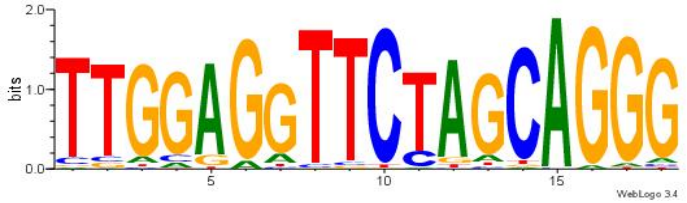

Dataset #:	1

Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0993497

Alignment:

```
TGTTATGCCTGAAAGT
---TGGACCTGAGAGC
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

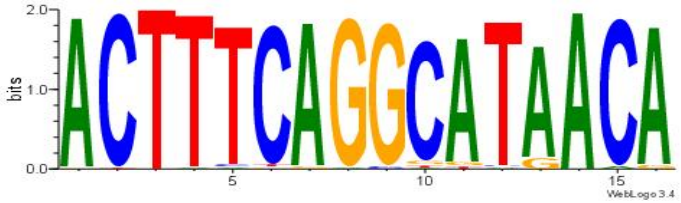

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

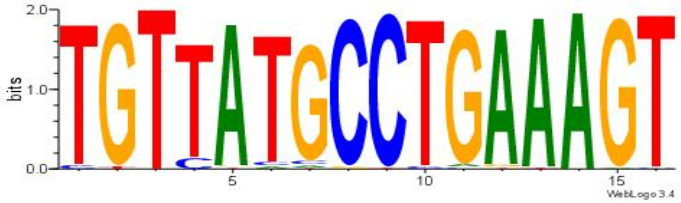

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.0994507

Alignment:
ACTGTCTTCCACCTCCACAT
----GCTCTCAGGTCCA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

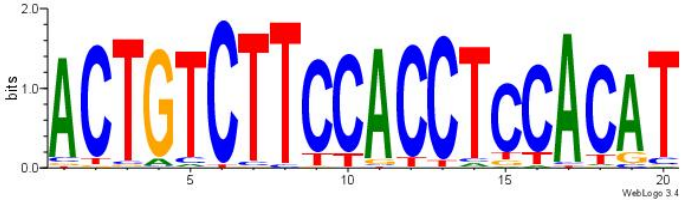

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

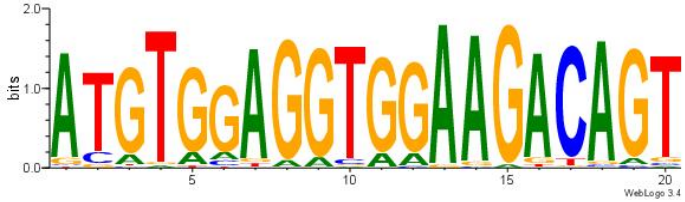

Dataset #: 1
Motif ID: 332
Motif name: Motif 332
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.100224

Alignment:
CTGGCCCTCAATGGTTAAAC
-TGGACCTGAGAGC------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

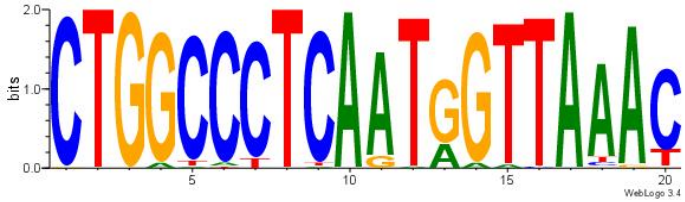

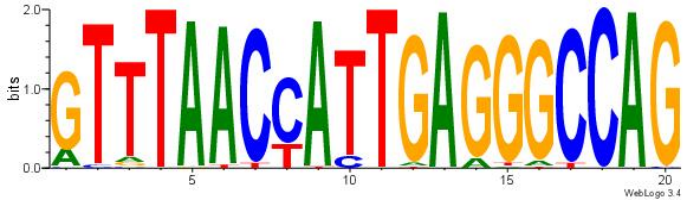

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.100518

Alignment:

```
GGGRSCACAGGAGCD
GCTCTCAGGTCCA--
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

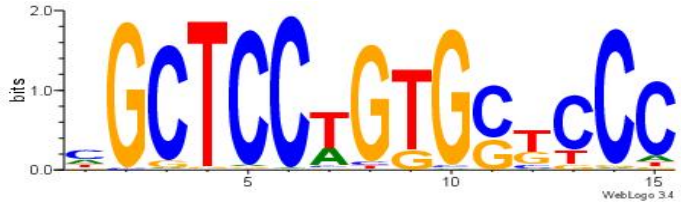

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.101151

Alignment:

```
ACATCMTCTGAAATCTAGG
--GCTCTCAGGTCCA----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

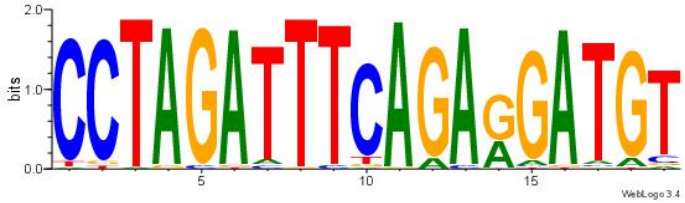

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

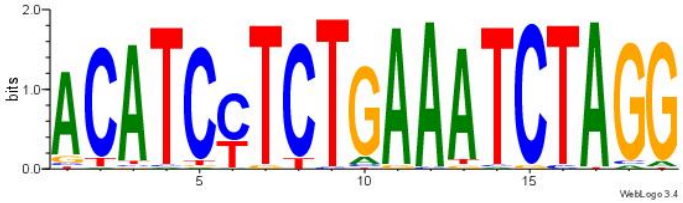

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.101524

Alignment:
GCTCCACCCAGTTCGAGCTT
----GCTCTCAGGTCCA---

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

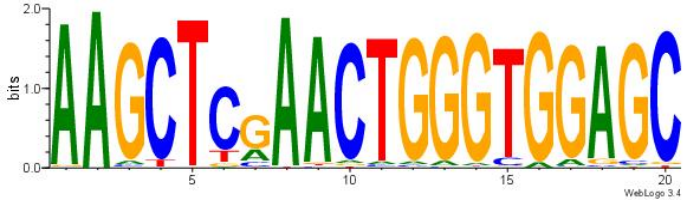

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

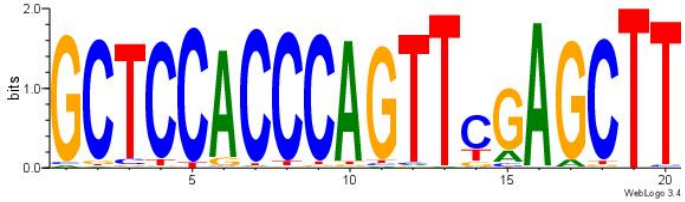

Dataset #: 1
Motif ID: 183
Motif name: Motif 183
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.102603

Alignment:
GGCCMGCAGGGCKGGC
--GCTCTCAGGTCCA-

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

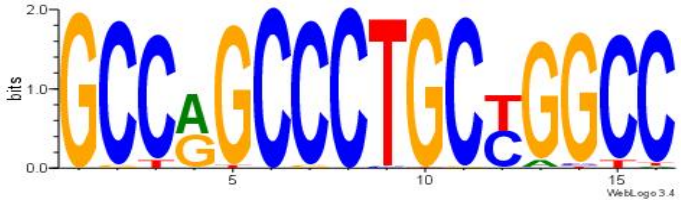

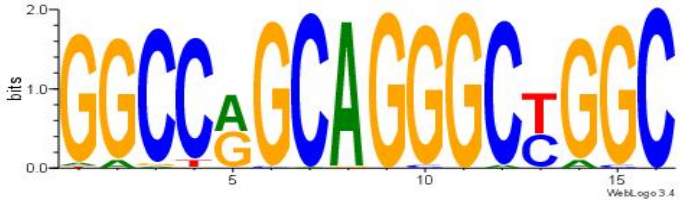

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.104114

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
-GCTCTCAGGTCCA------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

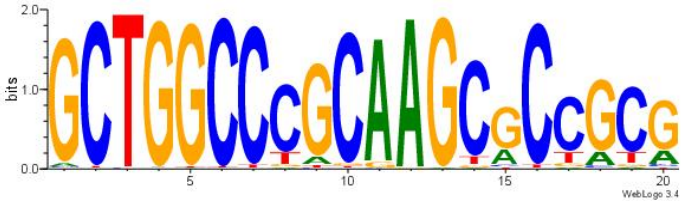

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

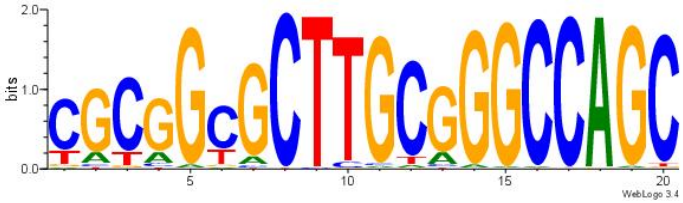

Dataset #:	1

Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.104234

Alignment:

```
ATTCAASATGAGATTTGGG
--TGGACCTGAGAGC----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

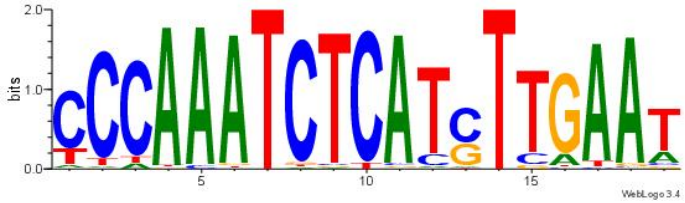

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

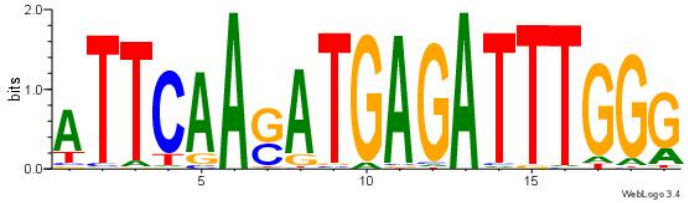

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.104305

Alignment:
GGTTTTCCATTCCTGAG
---GCTCTCAGGTCCA-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

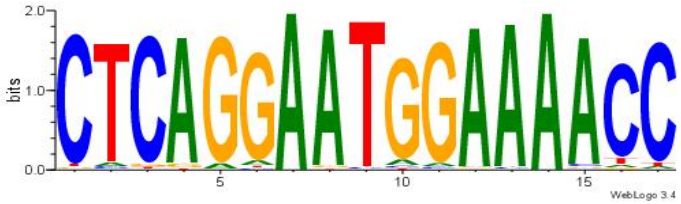

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

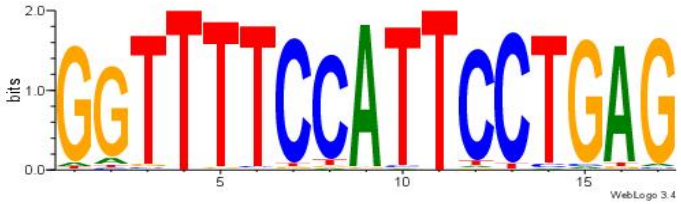

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.104629

Alignment:
CACCAGACTCAGGAGCCCAG
---TGGACCTGAGAGC----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

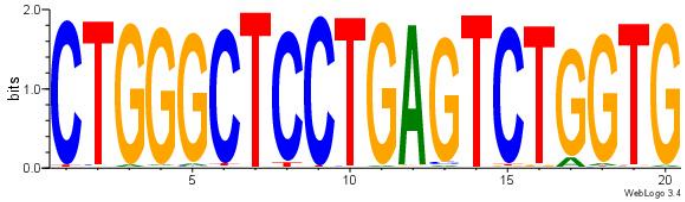

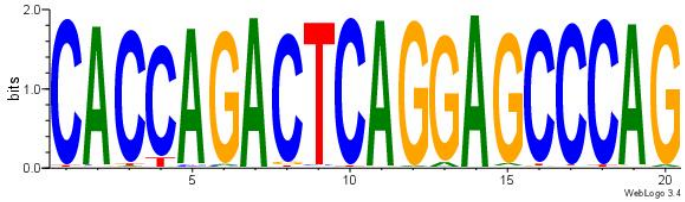

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.104855

Alignment:

```
AAGACCTTCCAGTGGGACAA
-------TGGACCTGAGAGC
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

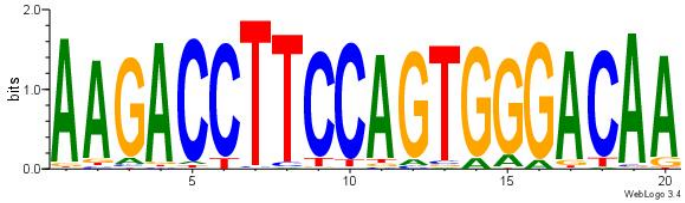

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

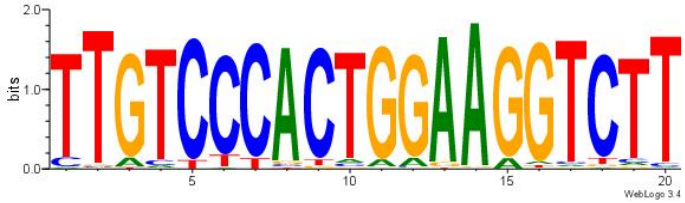

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.105426

Alignment:

```
GGCATCACGGATCCTACCAA
--GCTCTCAGGTCCA-----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

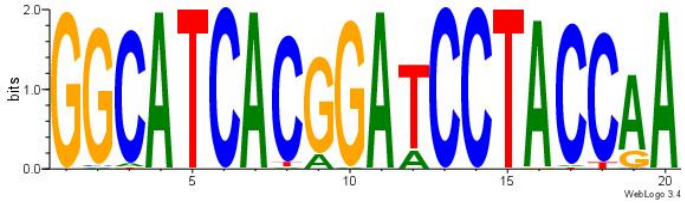

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

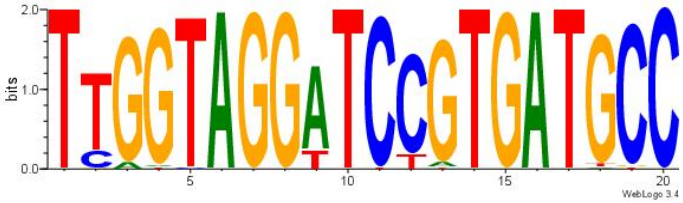

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.105437

Alignment:
GGGAGGGATATATTAGC
----TGGACCTGAGAGC

Original motif Consensus sequence: GGGAGGGATATATTAGC

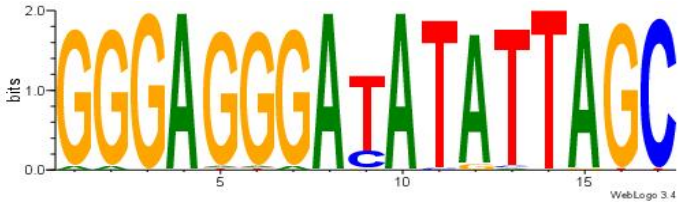

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

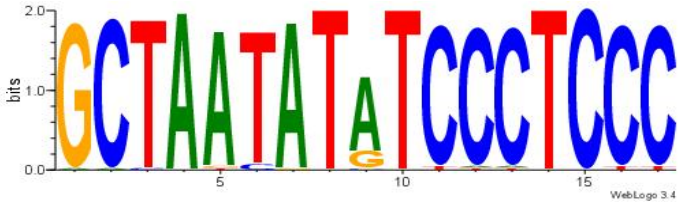

Dataset #: 1
Motif ID: 62
Motif name: Motif 62
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.105545

Alignment:
AGGAACAGCTCCRGTCTAC
-----GCTCTCAGGTCCA-

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

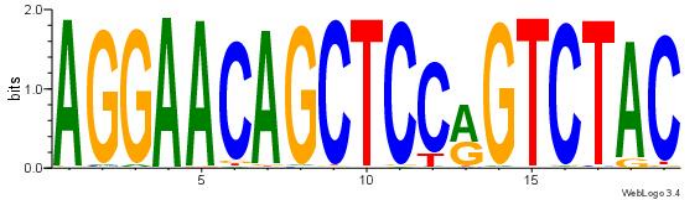

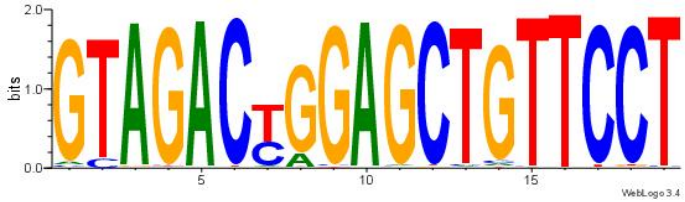

Dataset #:	1
Motif ID:	361
Motif name:	Motif 361
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.106097

Alignment:

```
AGGTCAGGAGTTC
TGGACCTGAGAGC
```

Original motif Consensus sequence: AGGTCAGGAGTTC

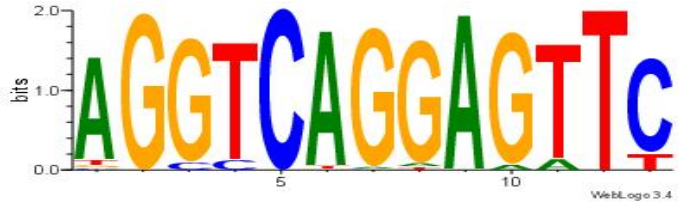

Reverse complement motif Consensus sequence: GAACTCCTGACCT

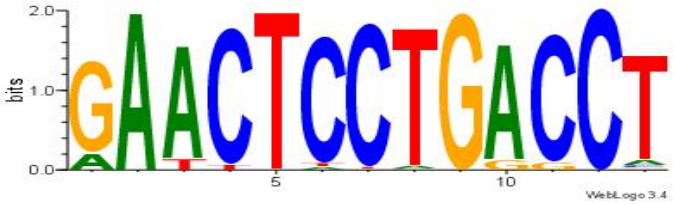

Dataset #:	1
Motif ID:	309

Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.1072

Alignment:

```
MTCCTCCAGACCCCAGAATG
------TGGACCTGAGAGC-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

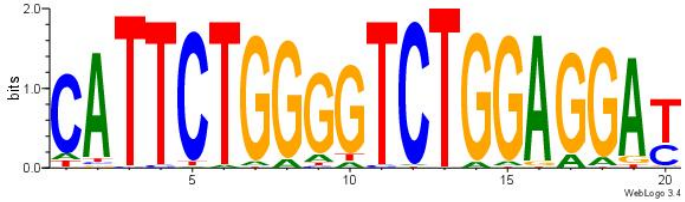

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

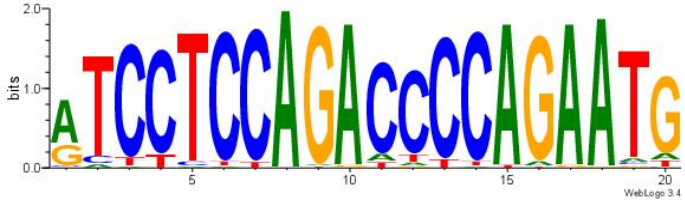

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.108942

Alignment:
GAAGGCAGCTAAGGCCCGGY
----TGGACCTGAGAGC---

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

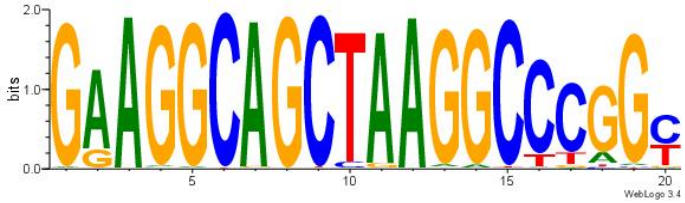

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

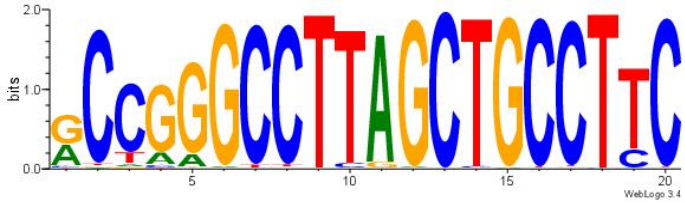

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.109167

Alignment:
GATCACGAGGTCAGGAG
GCTCTCAGGTCCA----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

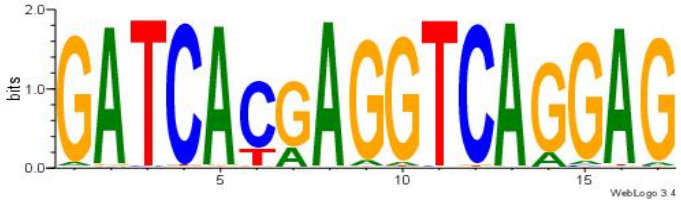

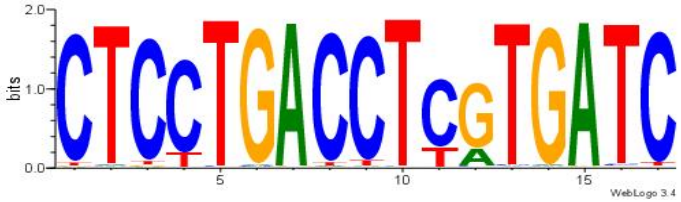

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.109183

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
-------GCTCTCAGGTCCA
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

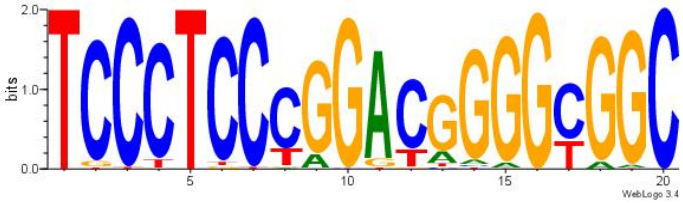

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

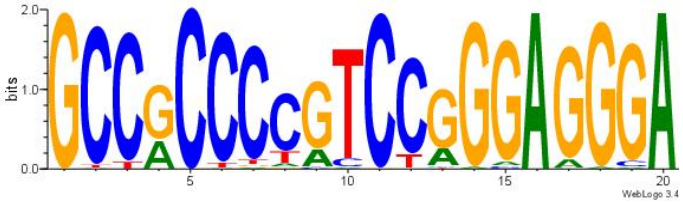

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.109507

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
------GCTCTCAGGTCCA-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

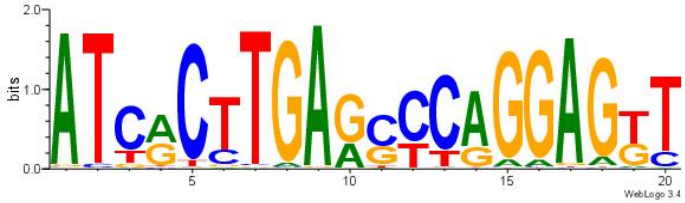

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

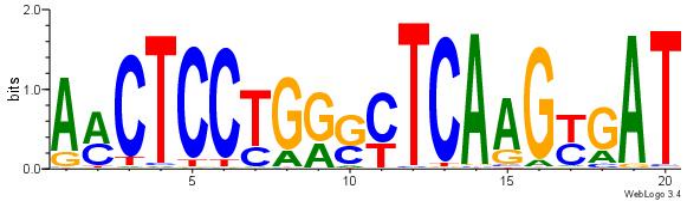

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.109566

Alignment:
CMGCTCCGAGTGCGG
GCTCTCAGGTCCA--

Original motif Consensus sequence: CCGCACTCGGAGCRG

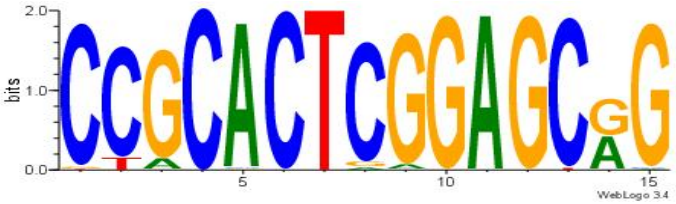

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

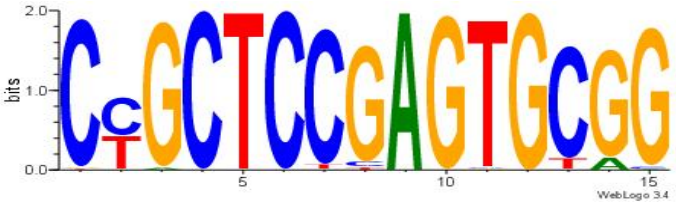

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.109974

Alignment:
ACTTTGGACTGTGGACTTTT
----TGGACCTGAGAGC---

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

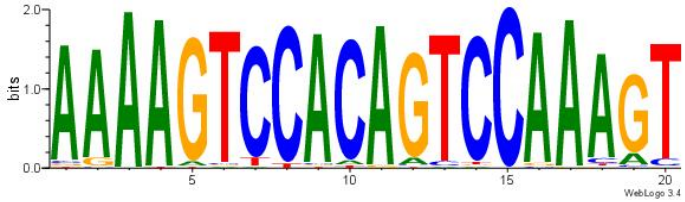

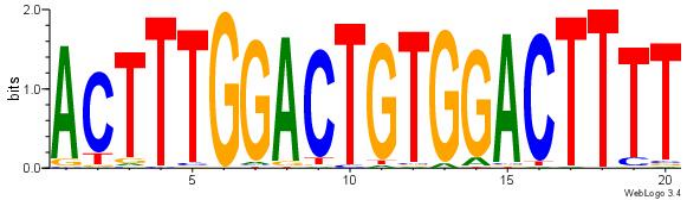

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.110057

Alignment:

```
GCCCTCACCATCC
GCTCTCAGGTCCA
```

Original motif Consensus sequence: GCCCTCACCATCC

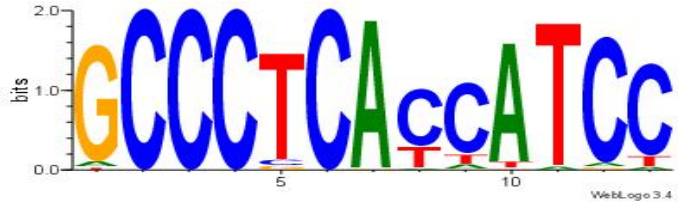

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

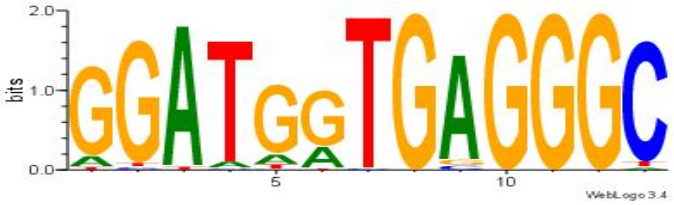

Dataset #:	1
Motif ID:	294

Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.110349

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
---TGGACCTGAGAGC----
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

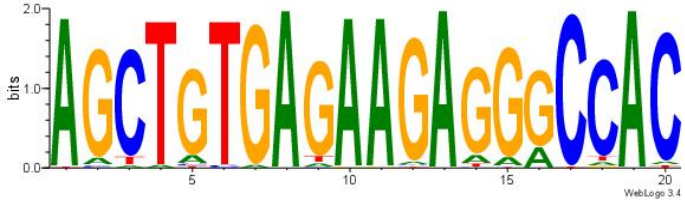

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

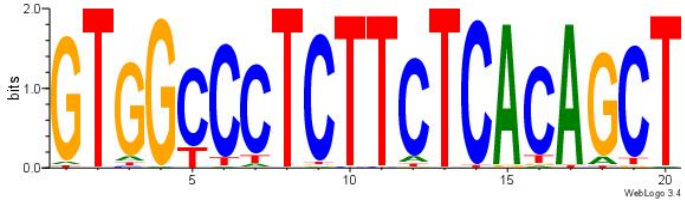

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.111217

Alignment:
CACCAGGAGATTATATCCCR
---TGGACCTGAGAGC----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

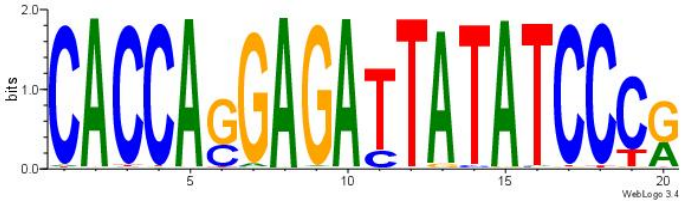

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

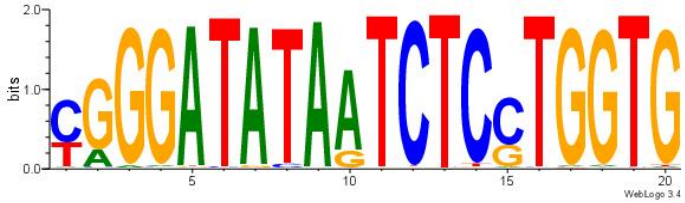

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.111545

Alignment:
AGGAGCCCCTCHGCCCR
----GCTCTCAGGTCCA

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

Reverse complement motif Consensus sequence:
KGGGCDGAGGGGCTCCT

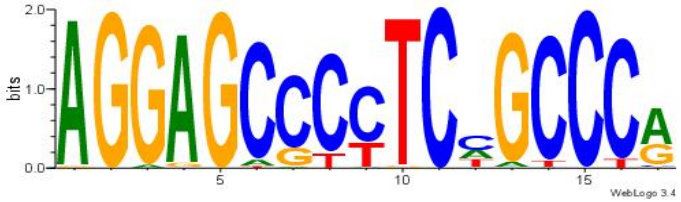

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.111947

Alignment:

```
AGCTAGAYACAGAGTGC
TGGACCTGAGAGC----
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

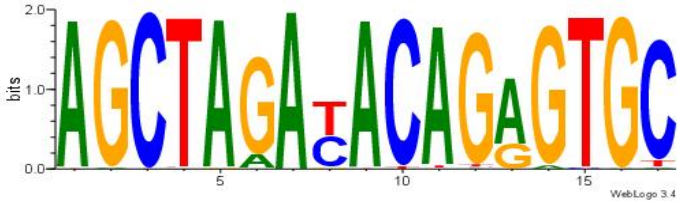

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

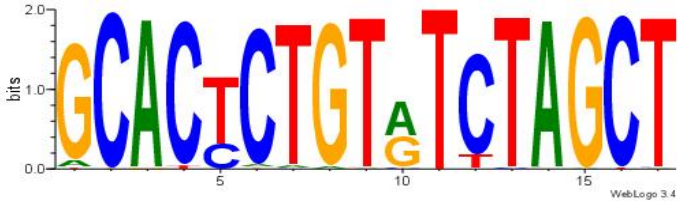

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.111993

Alignment:

```
ATGGCCTATGACYGSTTTG
TGGACCTGAGAGC------
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

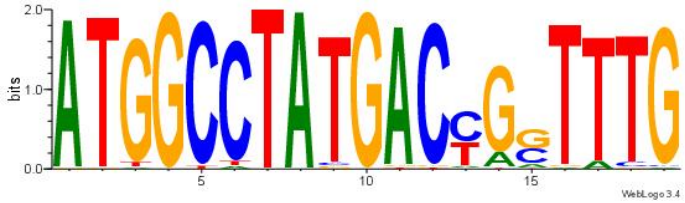

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

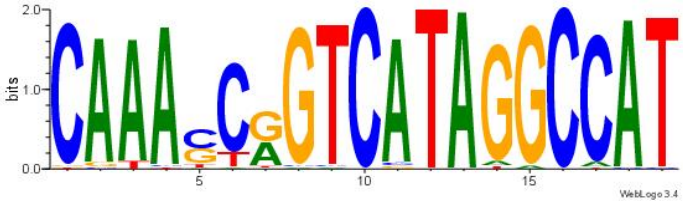

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.112227

Alignment:
AGGCGGCTGGGAGG
TGGACCTGAGAGC-

Original motif Consensus sequence: AGGCGGCTGGGAGG

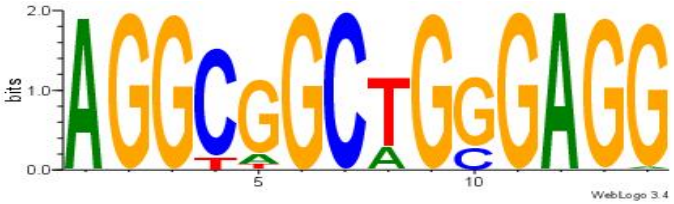

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.112296

Alignment:
TCTGGAGTGGACCTCCAGCA
--TGGACCTGAGAGC-----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

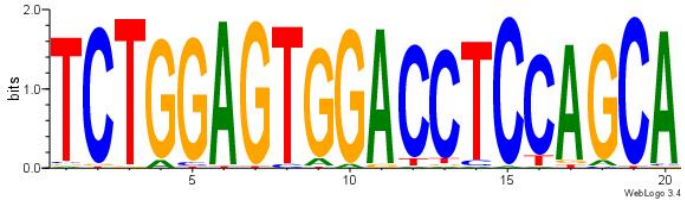

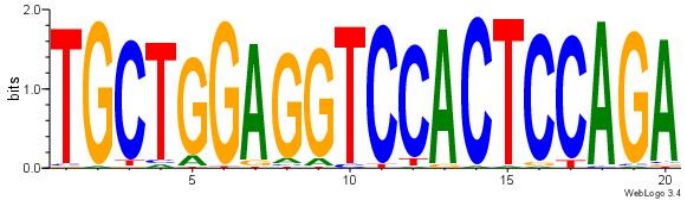

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.112309

Alignment:

```
TCKMGCCACTGCACTCCAGC
--GCTCTCAGGTCCA-----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

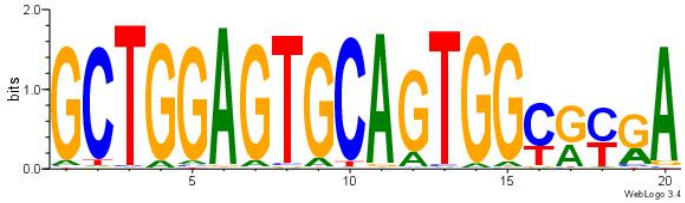

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

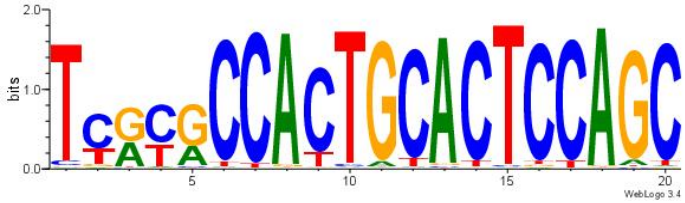

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.112349

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
------TGGACCTGAGAGC-
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

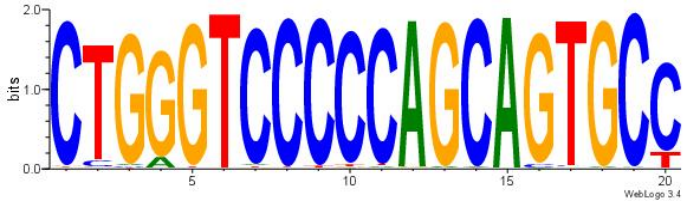

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

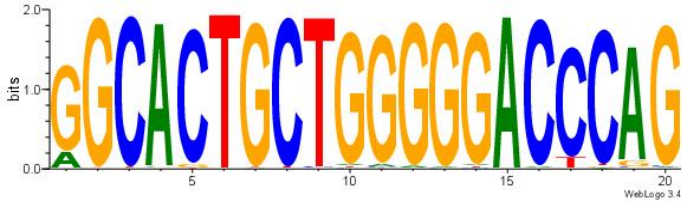

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.112443

Alignment:
ATGGACAYTTRGGTTGHTTC
----GCTCTCAGGTCCA---

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

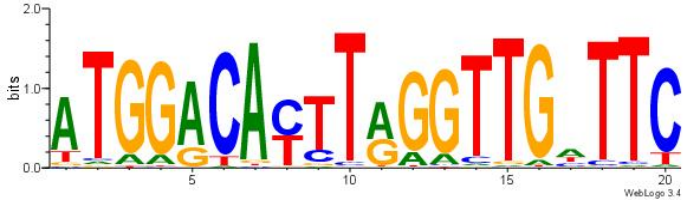

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

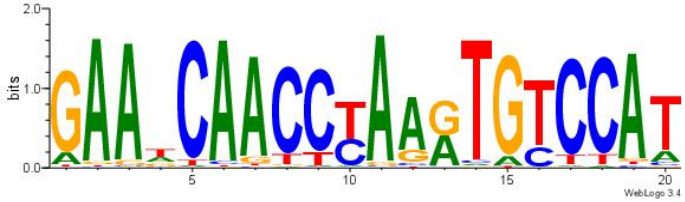

Dataset #: 1
Motif ID: 10
Motif name: Motif 10
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.11246

Alignment:
AGGASCSTCYSWGCCMGGY
-----TGGACCTGAGAGC-

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

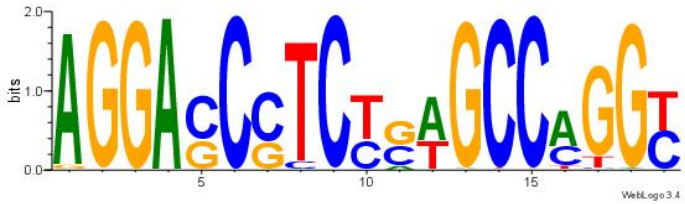

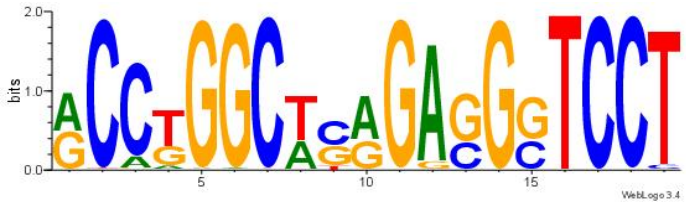

Dataset #: 1 Motif ID: 324 Motif name: Motif 324

Original motif Consensus sequence: ACGCACCTGTA

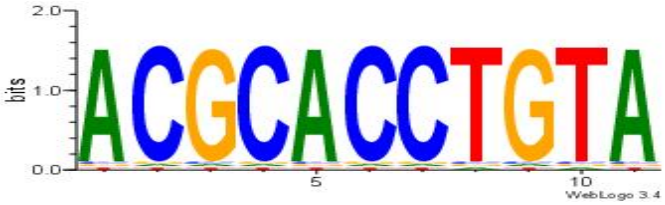

Reverse complement motif Consensus sequence: TACAGGTGCGT

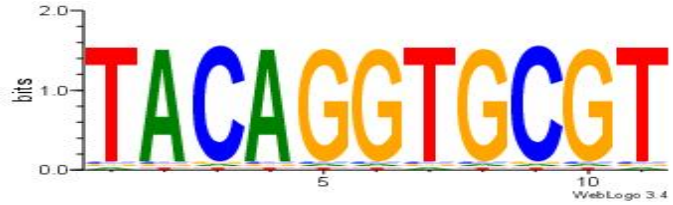

Best Matches for Motif ID 324 (Highest to Lowest)

Dataset #:	1
Motif ID:	355
Motif name:	Motif 355
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0752538

Alignment:

```
TATGAGCCTGTAA
-ACGCACCTGTA-
```

Original motif Consensus sequence: TATGAGCCTGTAA

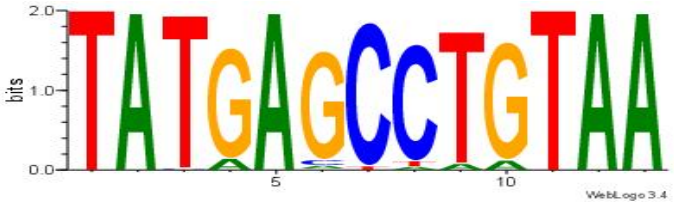

Reverse complement motif Consensus sequence: TTACAGGCTCATA

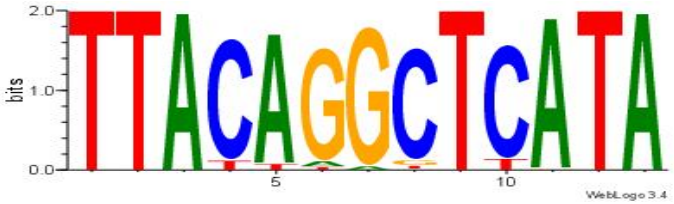

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0802613

Alignment:

```
CCGCTCCTGTGC
ACGCACCTGTA-
```

Original motif Consensus sequence: CCGCTCCTGTGC

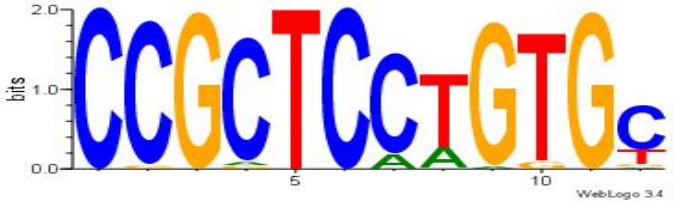

Reverse complement motif Consensus sequence: GCACAGGAGCGG

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0876733

Alignment:

```
CTCCAGKTMCATCCATGTTG
-TACAGGTGCGT--------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

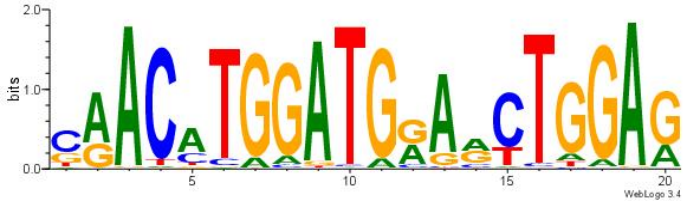

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

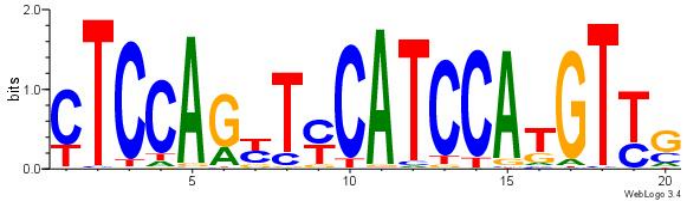

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 11
Similarity score: 0.088024

Alignment:
ACTCAGCCCRCCTGCACCC
-----ACGCACCTGTA---

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

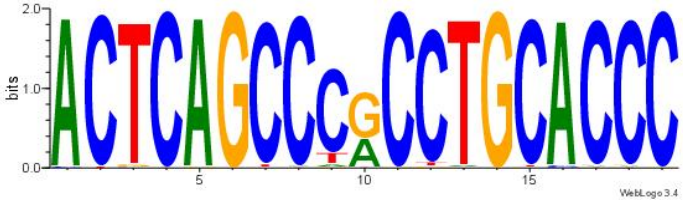

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

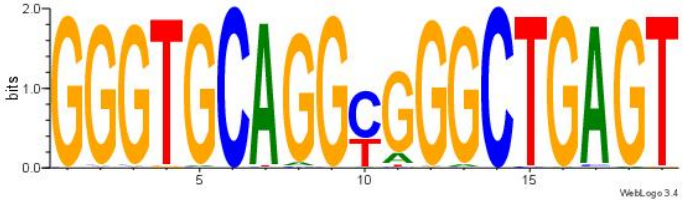

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0887977

Alignment:
CCCACGCCCACCCGGAACT
---ACGCACCTGTA-----

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

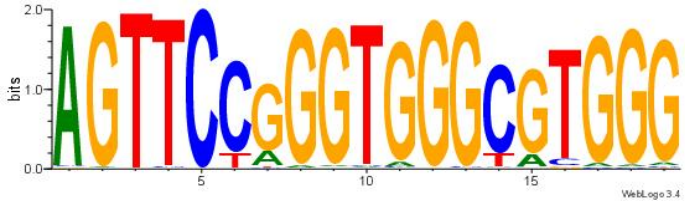

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

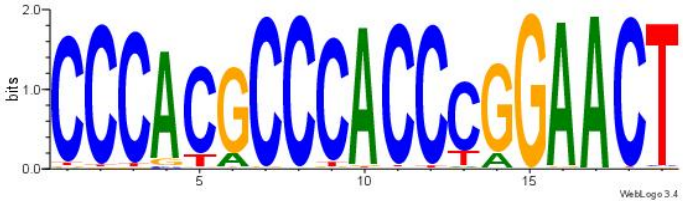

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.089009

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
----TACAGGTGCGT-----
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

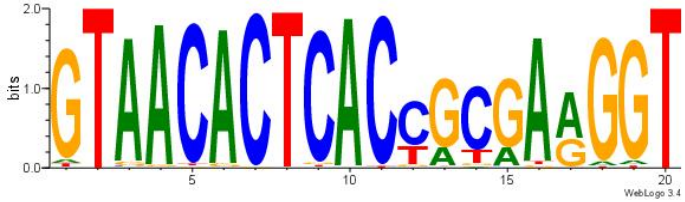

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

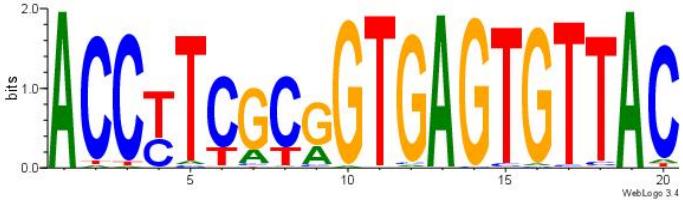

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0921896

Alignment:

```
ATCTCASAAATCACCACTA
--------ACGCACCTGTA
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

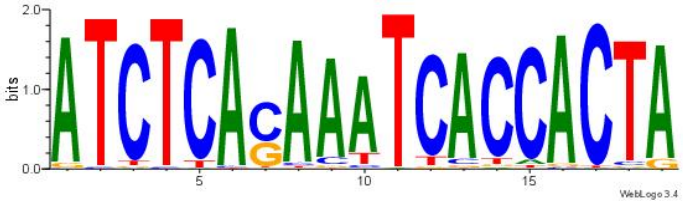

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

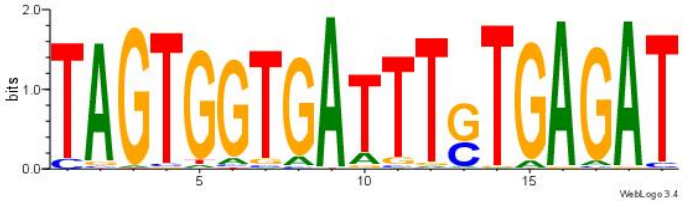

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 11
Similarity score: 0.0928505

Alignment:
```
CTCAGTGTTAATCTCCTGTC
---------ACGCACCTGTA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

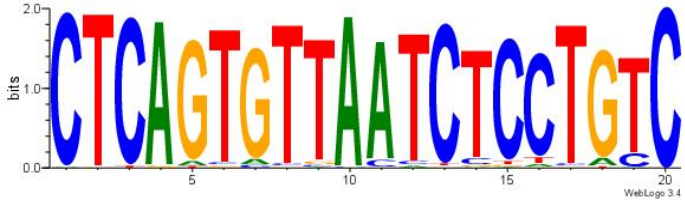

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

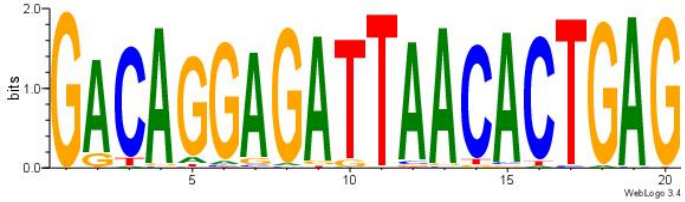

Dataset #: 1
Motif ID: 230
Motif name: Motif 230
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0930396

Alignment:
```
TTTTCACATGCCTTTCT
--TACAGGTGCGT----
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

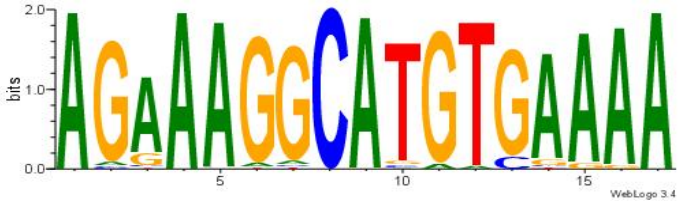

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

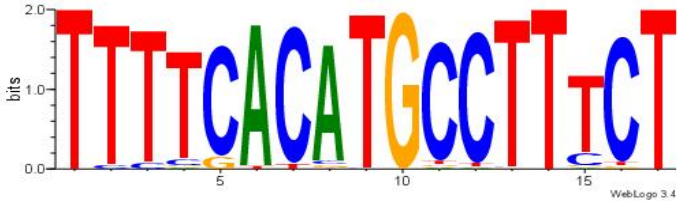

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0942722

Alignment:

```
CTACATGGACCTT
-TACAGGTGCGT-
```

Original motif Consensus sequence: AAGGTCCATGTAG

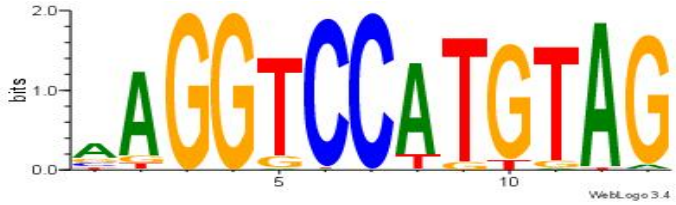

Reverse complement motif Consensus sequence: CTACATGGACCTT

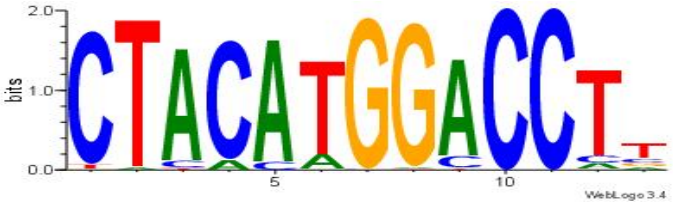

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0943562

Alignment:

```
GACTGGCAGGCAGCTCCACC
-------ACGCACCTGTA--
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

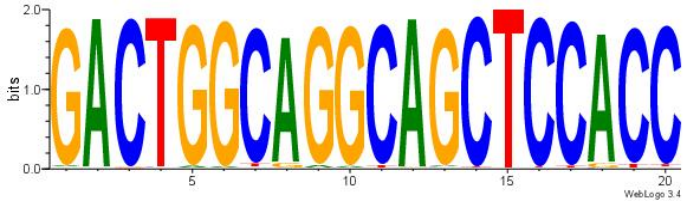

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

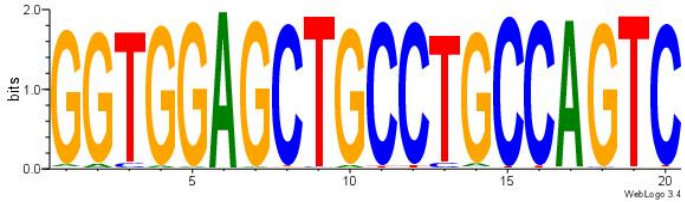

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 11
Similarity score: 0.0949735

Alignment:
TCKMGCCACTGCACTCCAGC
-------ACGCACCTGTA--

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

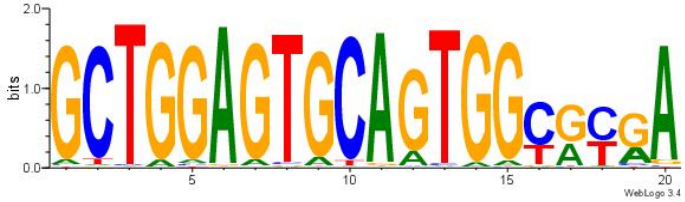

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

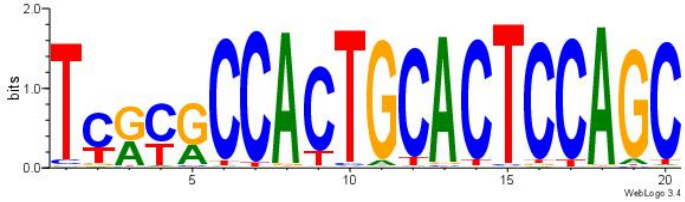

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0962506

Alignment:
AACAACASACACTGGGGCCT
---------TACAGGTGCGT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

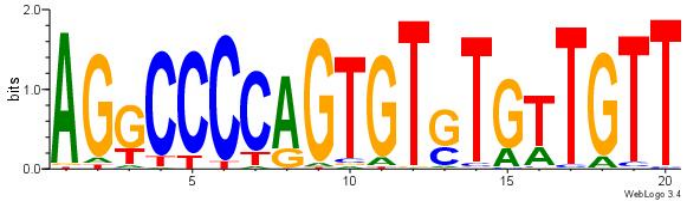

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

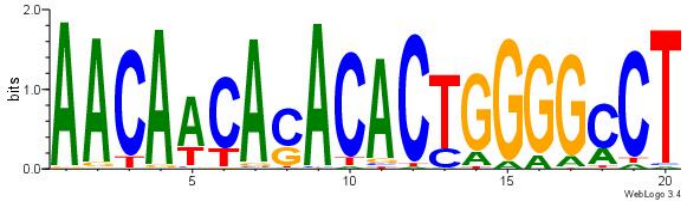

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0968094

Alignment:

```
CAGAAATCACCCGTCTT
----ACGCACCTGTA--
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

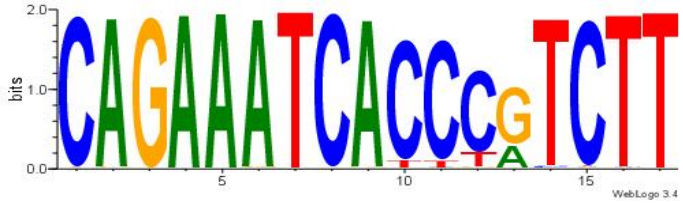

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

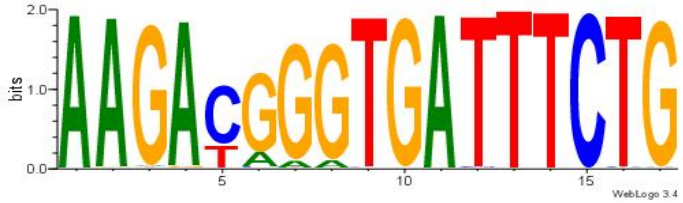

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0968682

Alignment:

```
CMGCTCCGAGTGCGG
----TACAGGTGCGT
```

Original motif Consensus sequence: CCGCACTCGGAGCRG

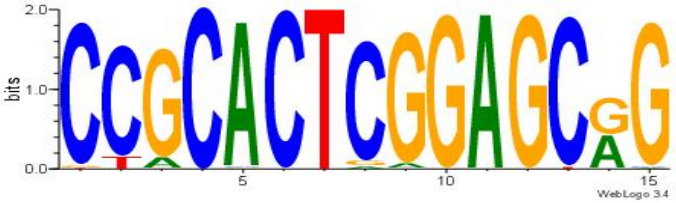

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

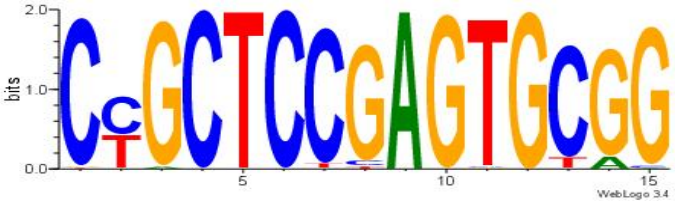

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 11
Similarity score: 0.0974881

Alignment:
CCCACACCCTTATTA
-ACGCACCTGTA---

Original motif Consensus sequence: CCCACACCCTTATTA

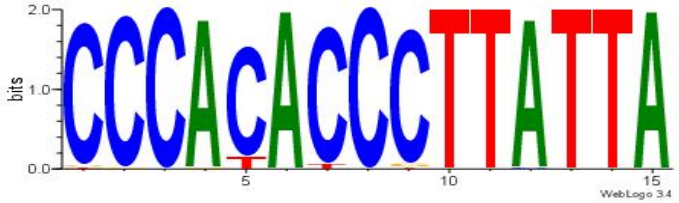

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

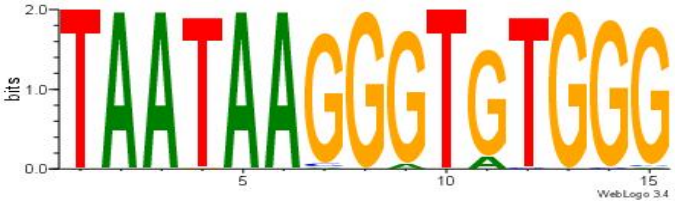

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.0988976

Alignment:
GCTTCTGGTGAGGGC
--TACAGGTGCGT--

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

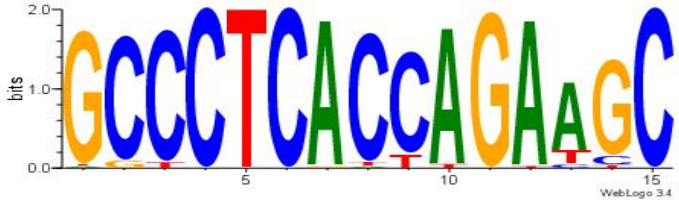

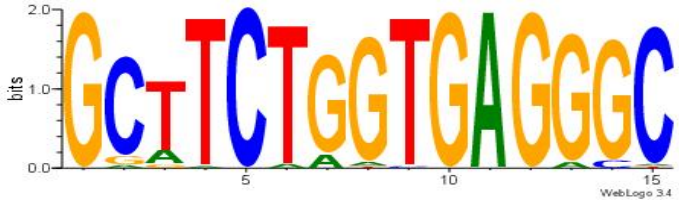

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.102027

Alignment:

```
ACGCCCACGGAGTCTC
ACGCACCTGTA-----
```

Original motif Consensus sequence: ACGCCCACGGAGTCTC

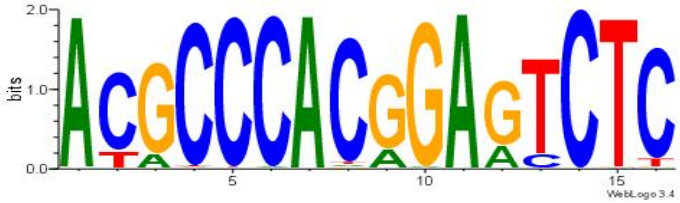

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

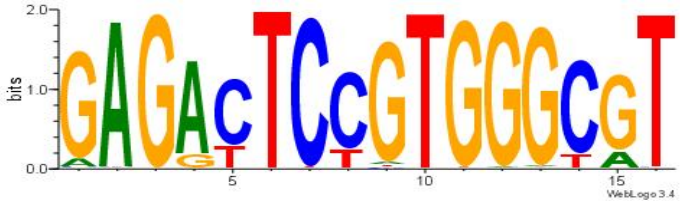

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.102504

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-----TACAGGTGCGT----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

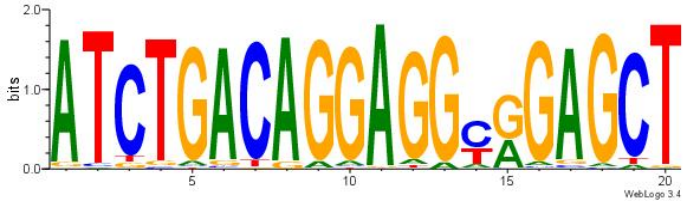

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

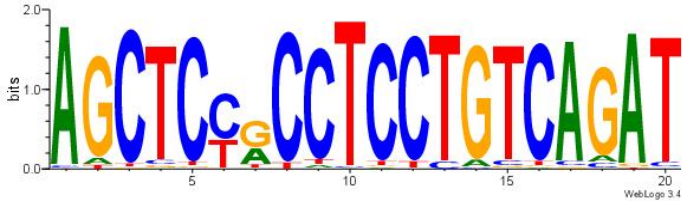

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.104801

Alignment:
GTTGGCCAGGCTGGTCT
----TACAGGTGCGT--

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

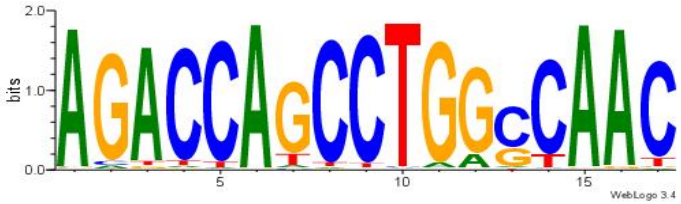

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

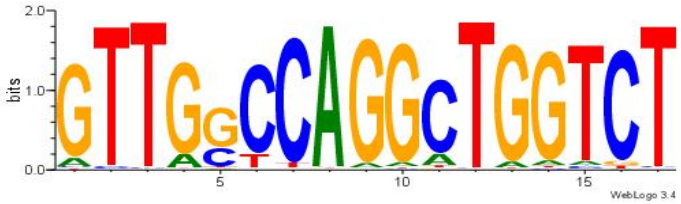

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 11
Similarity score: 0.105004

Alignment:
CTAGACATAAAGGTTCTCCA
--TACAGGTGCGT-------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

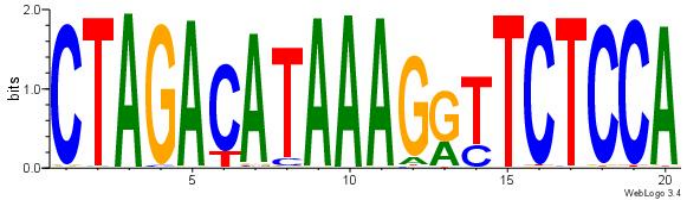

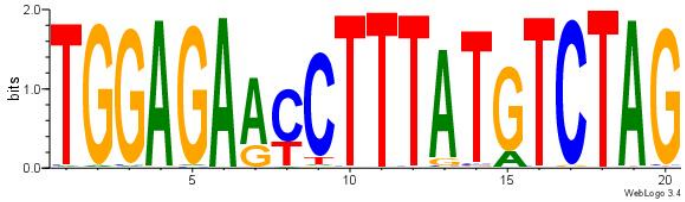

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.105239

Alignment:

```
AACCCTATTGTGAACTGYG
-ACGCACCTGTA-------
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

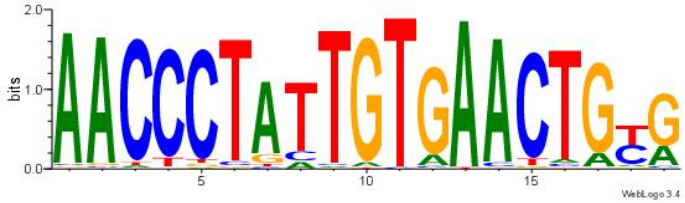

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

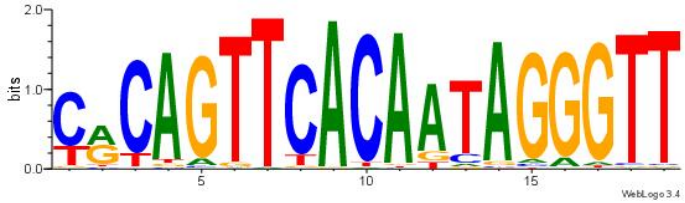

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.105475

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----ACGCACCTGTA----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

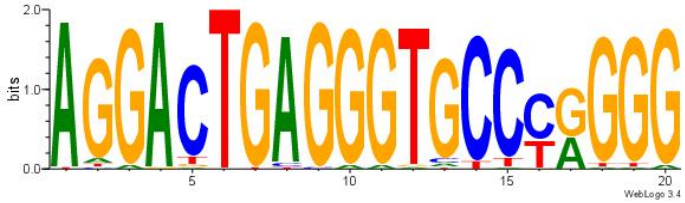

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

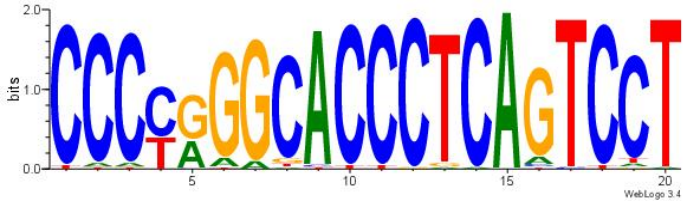

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.105481

Alignment:
AAGCTCGAACTGGGTGGAGC
-----TACAGGTGCGT----

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

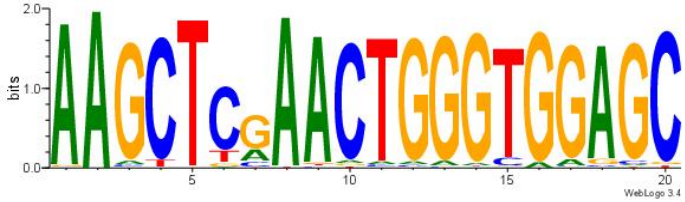

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

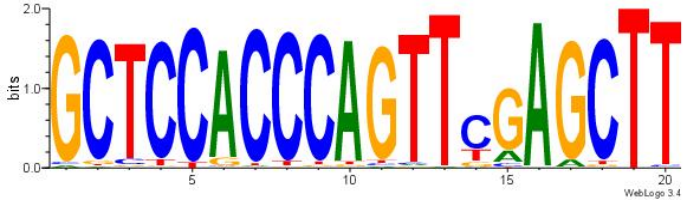

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.106202

Alignment:
TACCTGAGACTGGGTAATTT
TACAGGTGCGT---------

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

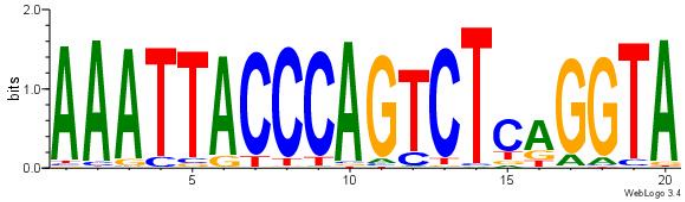

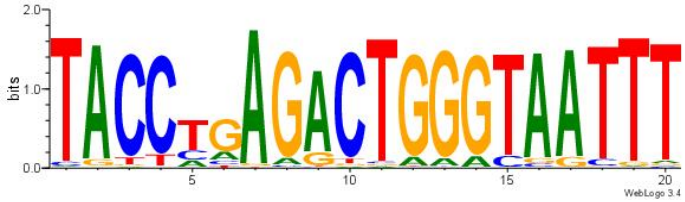

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.106301

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---ACGCACCTGTA------
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

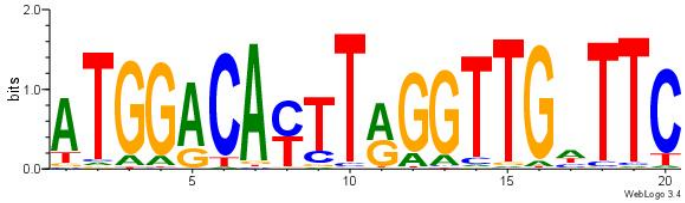

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

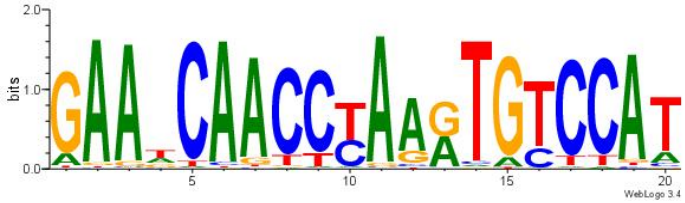

Dataset #:	1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.106349

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--ACGCACCTGTA-------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

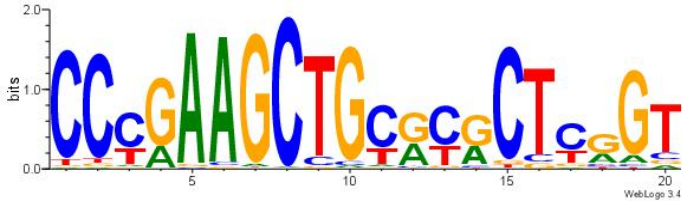

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

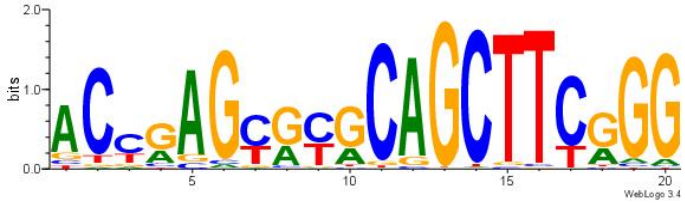

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.106754

Alignment:
ACACACAYACACACACACA
ACGCACCTGTA--------

Original motif Consensus sequence: ACACACAYACACACACACA

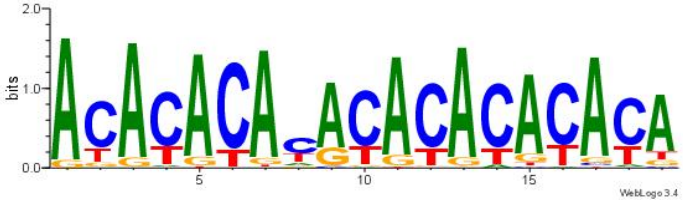

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

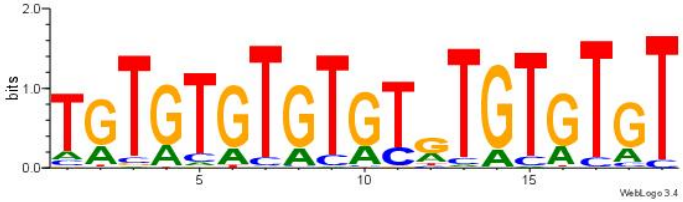

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.107204

Alignment:
ACTCCCTAGTGAGATGAACC
---------ACGCACCTGTA

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

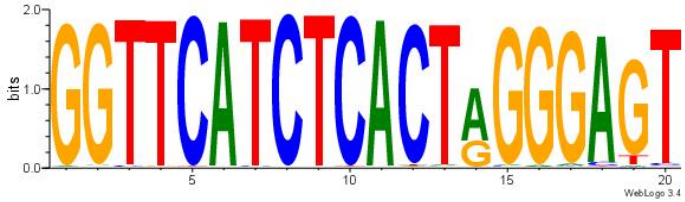

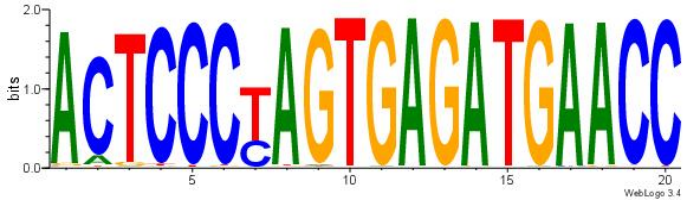

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.107349

Alignment:

```
GTAGACKGGAGCTGTTCCT
---ACGCACCTGTA-----
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

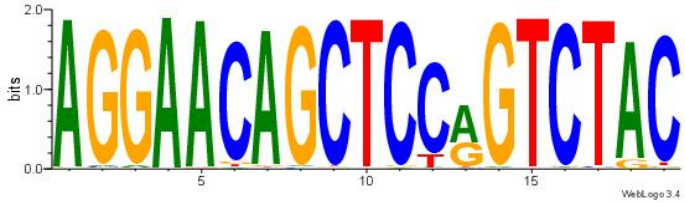

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

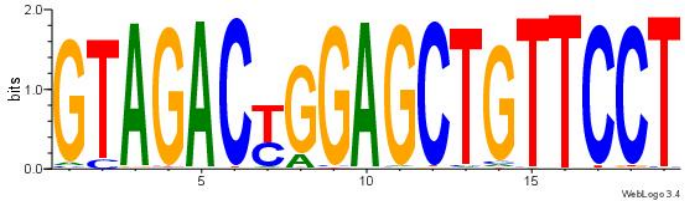

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.107713

Alignment:

```
ACACATCACAAAGCAGTTTC
ACGCACCTGTA---------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

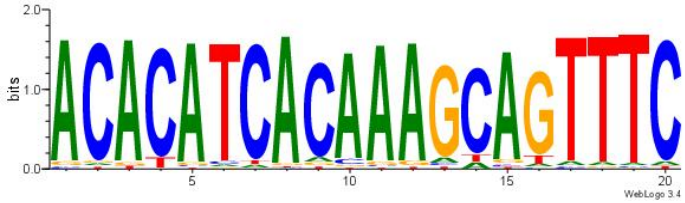

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

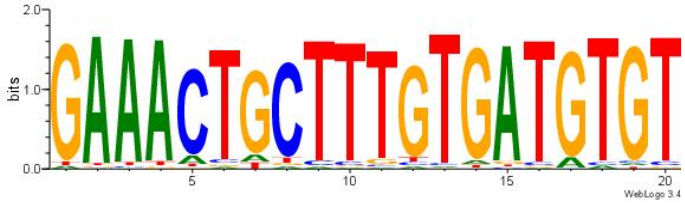

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.107825

Alignment:
GCTTAGCACCYGGGCCAGC
---ACGCACCTGTA-----

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

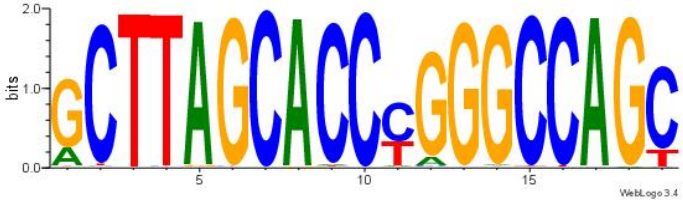

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

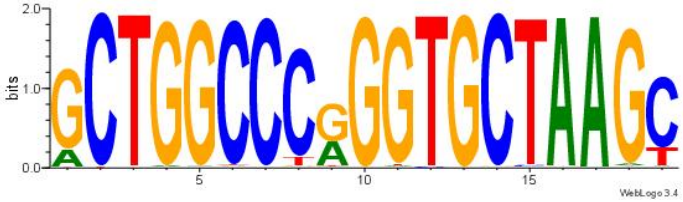

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.107962

Alignment:
TAAAAGACTACAWATTGGGT
-TACAGGTGCGT--------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

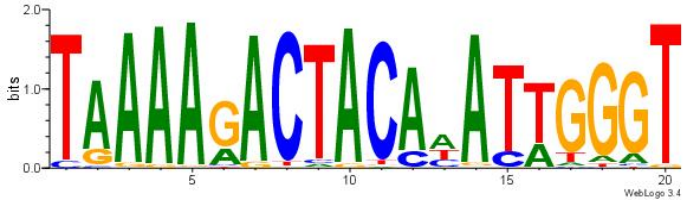

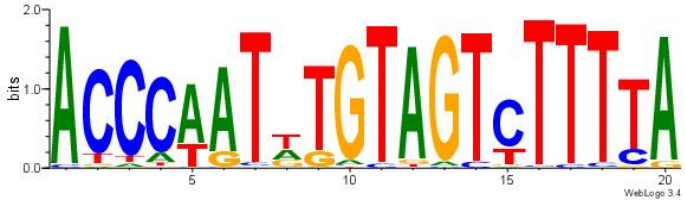

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.108607

Alignment:

```
TTGGAGGTTCTAGCAGGG
-TACAGGTGCGT------
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

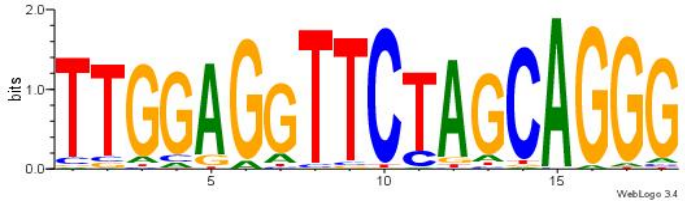

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.108944

Alignment:

```
ACTGTCTTCCACCTCCACAT
------ACGCACCTGTA---
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

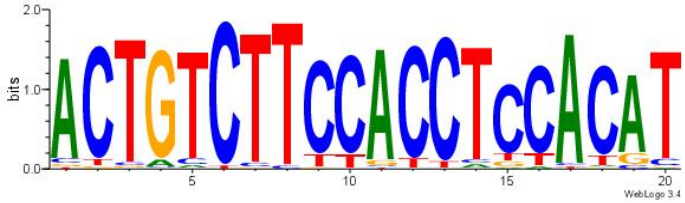

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

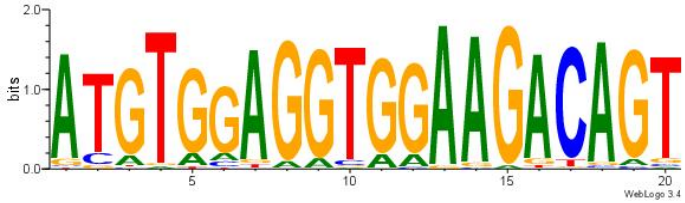

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.109396

Alignment:
GGATTTMKGACTTGCATGGG
----ACGCACCTGTA-----

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

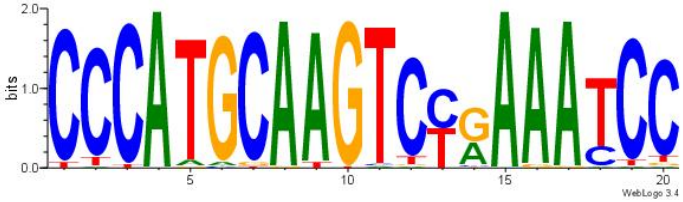

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

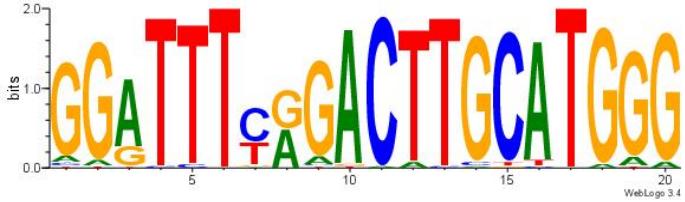

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.109456

Alignment:
AAGACCTTCCAGTGGGACAA
---ACGCACCTGTA------

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

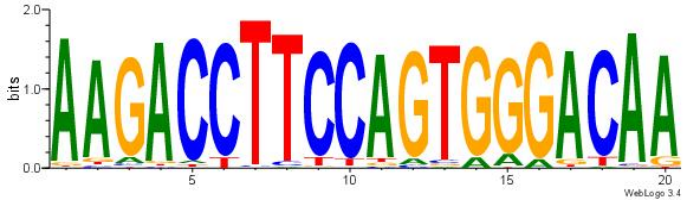

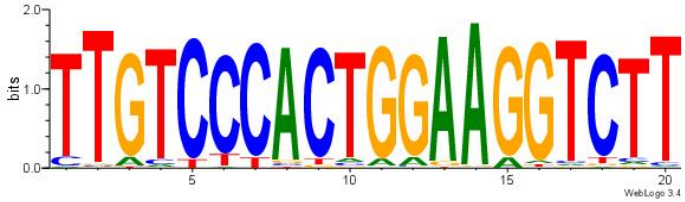

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.109483

Alignment:

```
TGCTGCTGCTGC
TACAGGTGCGT-
```

Original motif Consensus sequence: GCAGCAGCAGCA

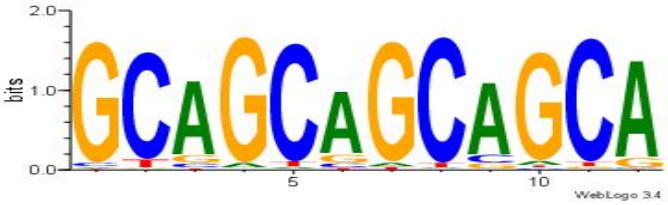

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

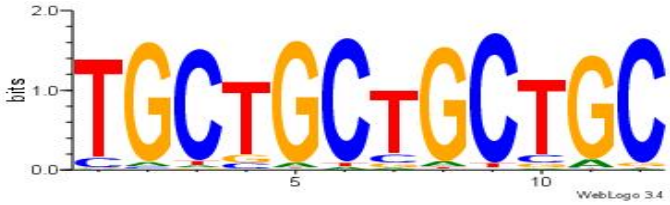

Dataset #:	1
Motif ID:	331

Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.11049

Alignment:

```
CCACCACAGCTCAAGGAGGC
---ACGCACCTGTA------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

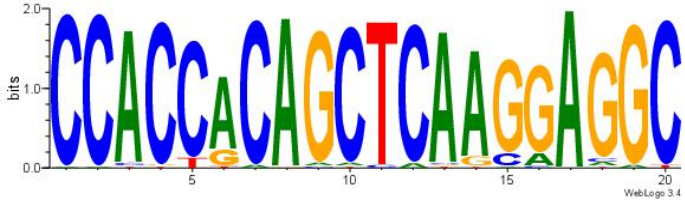

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

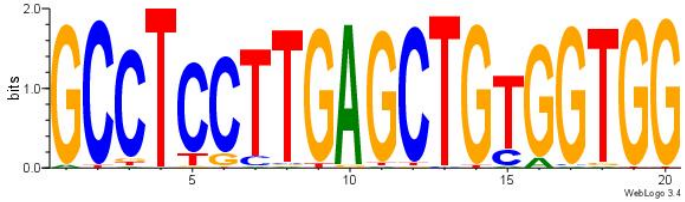

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.110607

Alignment:
GKCTGTACCCCCATTGTAT
-ACGCACCTGTA-------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

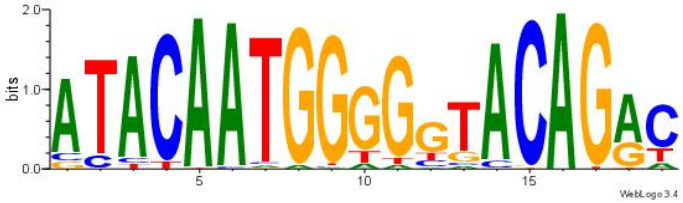

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

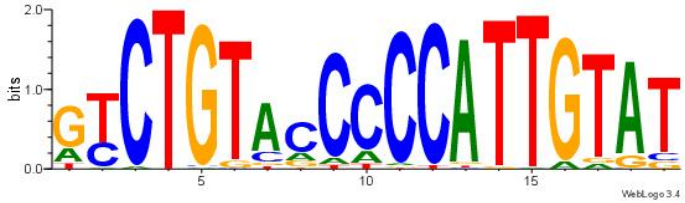

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.111005

Alignment:
TCTGGAGTGGACCTCCAGCA
------ACGCACCTGTA---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

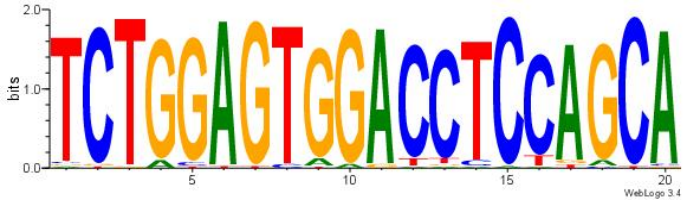

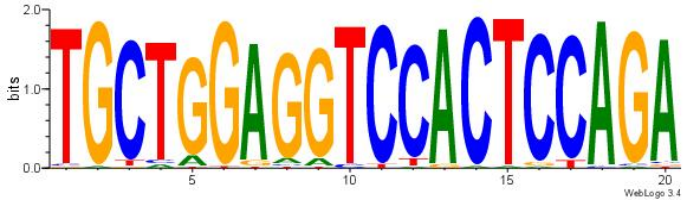

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.111179

Alignment:

```
TTTGGTGCACCCATCA
-ACGCACCTGTA----
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

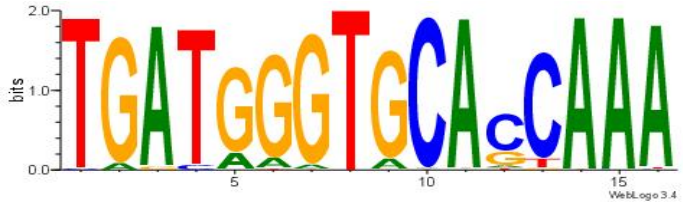

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

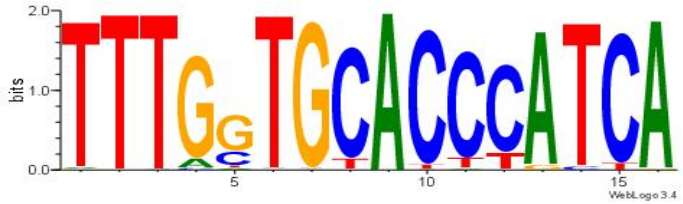

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.111189

Alignment:

```
GAATACCTCCTGAAGGACCT
------ACGCACCTGTA---
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

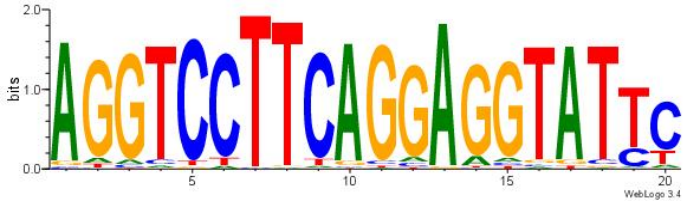

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

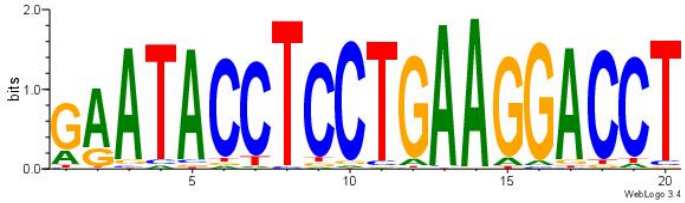

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.111729

Alignment:
TCCCTCCCGGACGGGGYGGC
ACGCACCTGTA---------

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

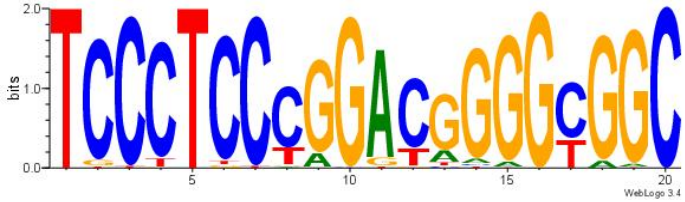

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

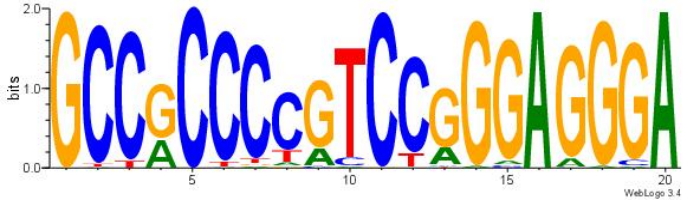

Dataset #: 1
Motif ID: 257
Motif name: Motif 257
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.111891

Alignment:
GAGAACACATGGACA
--ACGCACCTGTA--

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTC

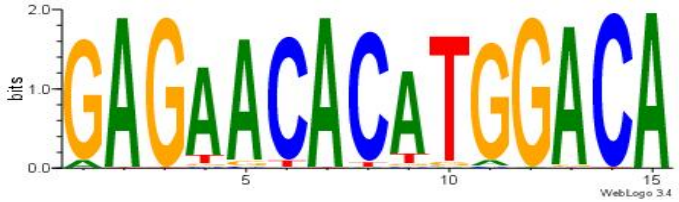

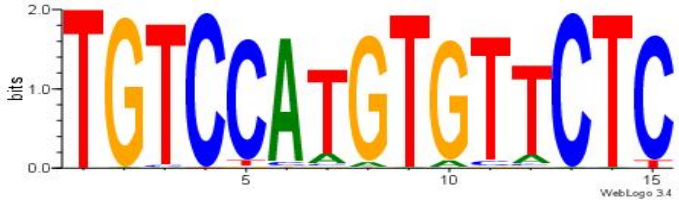

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.111996

Alignment:

```
AGGCTGTTTTACAGTTAAC
--------ACGCACCTGTA
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

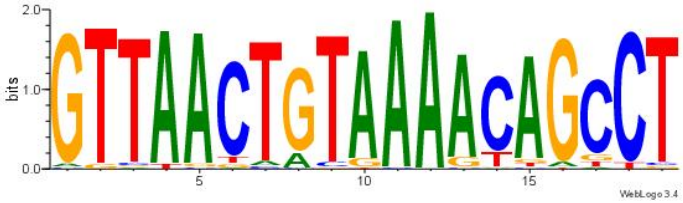

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

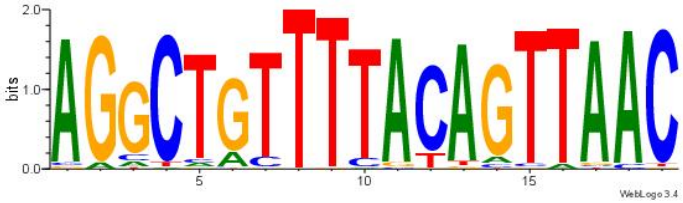

Dataset #: 1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.112175

Alignment:

```
CAAAGGCATAAGAATGAT
---ACGCACCTGTA----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

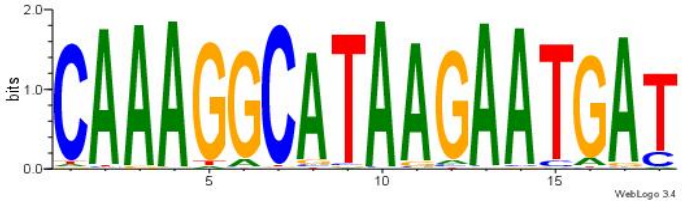

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

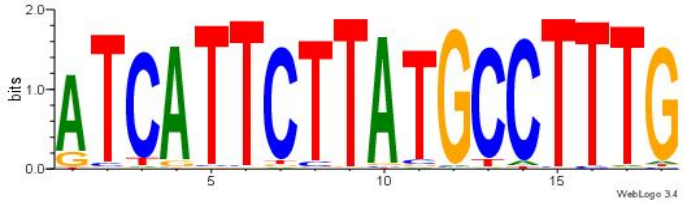

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.112253

Alignment:
TCCAAATGGGAGAAATTGGC
---------TACAGGTGCGT

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

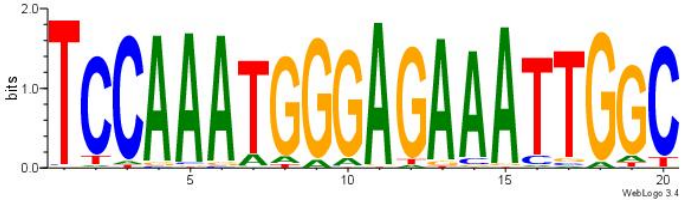

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

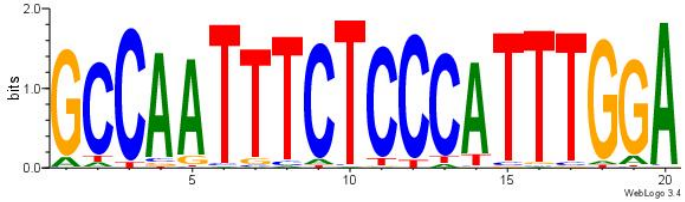

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.112846

Alignment:
MGAAGGGACTTGCCTTGT
----ACGCACCTGTA---

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

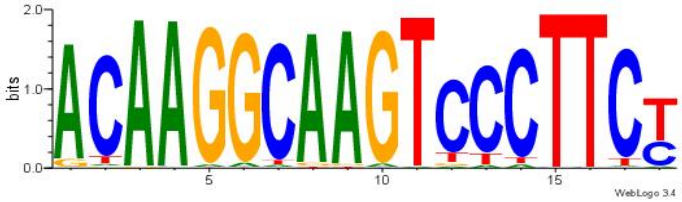

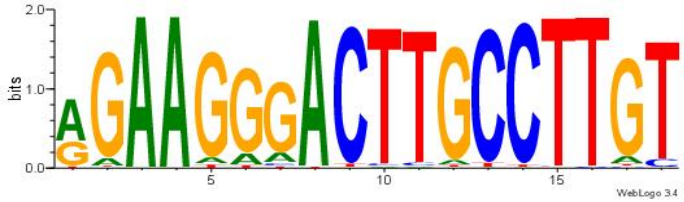

Dataset #:	1
Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.112851

Alignment:

```
RRCCGCTCCATG
TACAGGTGCGT-
```

Original motif Consensus sequence: CATGGAGCGGKK

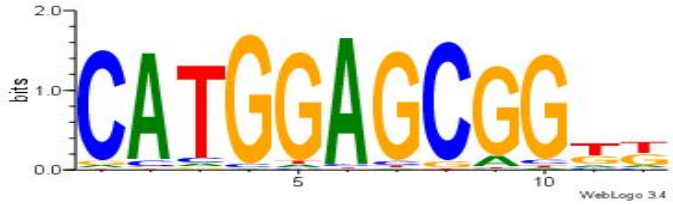

Reverse complement motif Consensus sequence: RRCCGCTCCATG

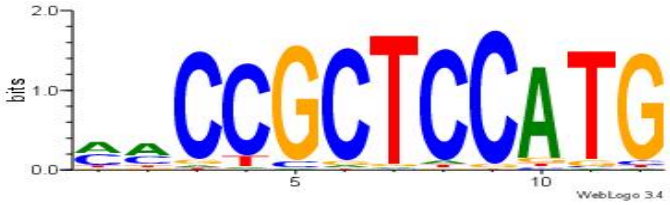

Dataset #: 1 Motif ID: 325 Motif name: Motif 325

Original motif Consensus sequence: AGCAGCTGTAAATA

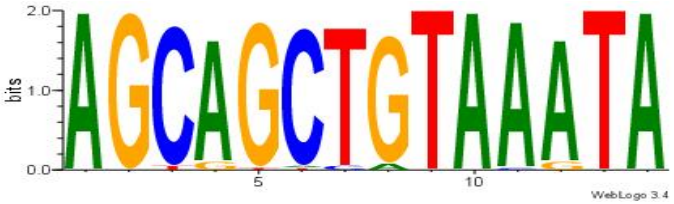

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

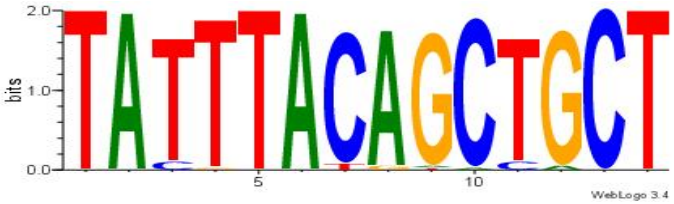

Best Matches for Motif ID 325 (Highest to Lowest)

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.087674

Alignment:

```
GTACCTCAGWTGGAAATG
AGCAGCTGTAAATA----
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

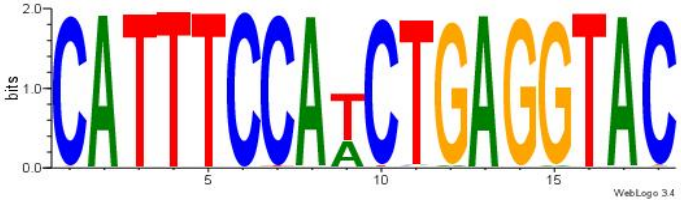

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

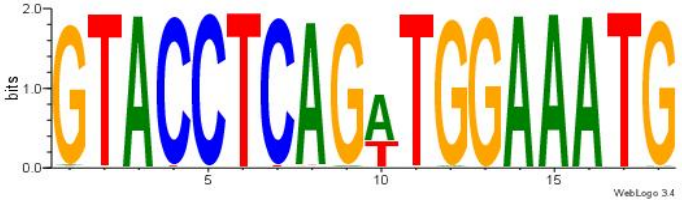

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0891021

Alignment:

```
AGTTCTTAAAGATGGT
TATTTACAGCTGCT--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

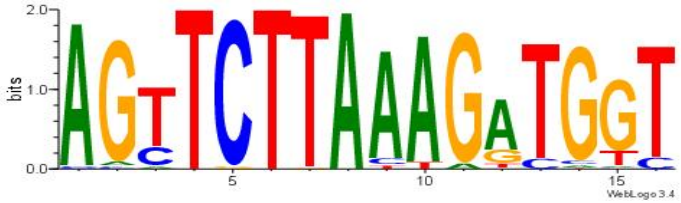

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

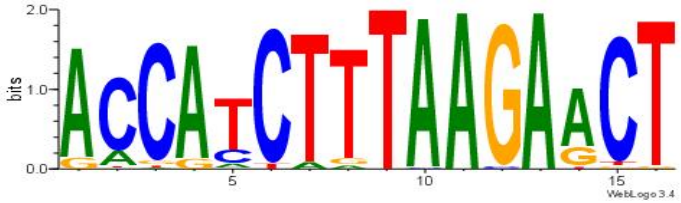

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7

Number of overlap: 14
Similarity score: 0.0976016

Alignment:
AWTKKTGGTTKCCAGKGGCT
------TATTTACAGCTGCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

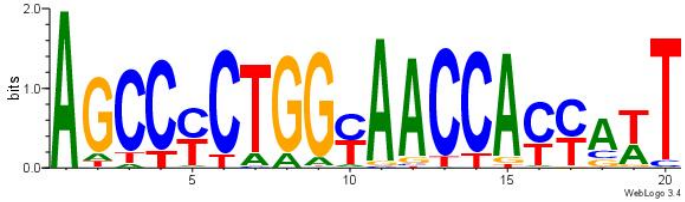

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

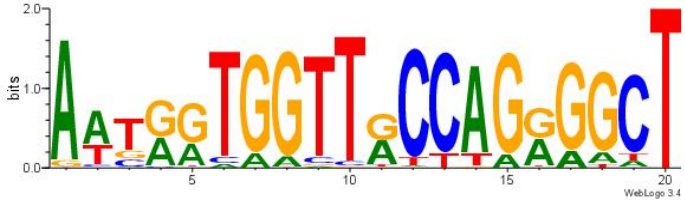

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.100233

Alignment:
AGTGTTTCCAAMCTGCT
TATTTACAGCTGCT---

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

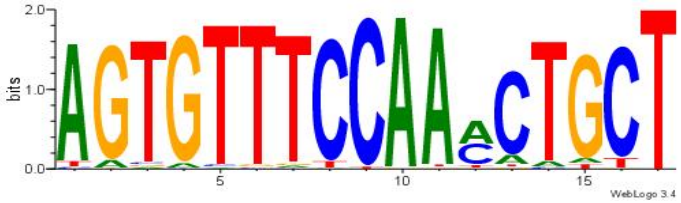

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

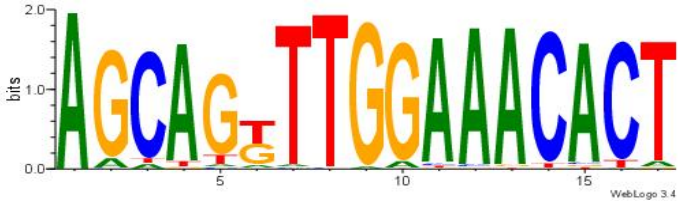

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.104976

Alignment:

```
CMCAGTTCACAATAGGGTT
-----AGCAGCTGTAAATA
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

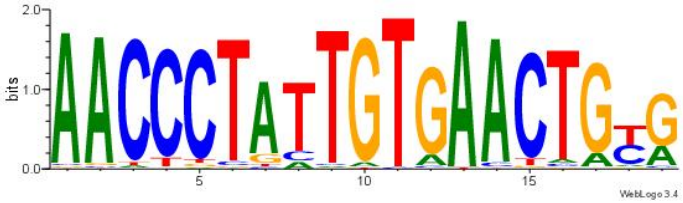

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

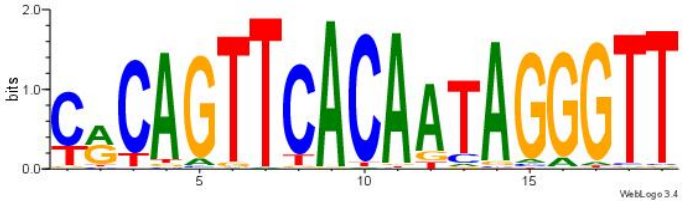

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.105379

Alignment:

```
TGGAGAACCTTTATGTCTAG
---AGCAGCTGTAAATA---
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

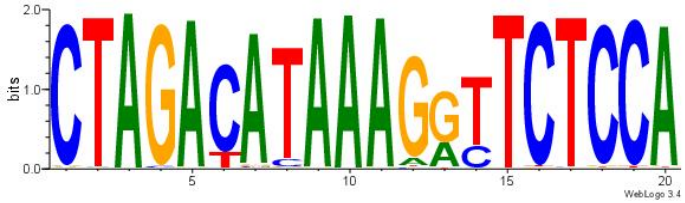

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

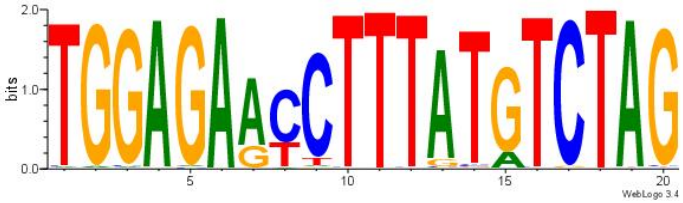

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.106989

Alignment:
AGGCTGTTTTACAGTTAAC
-----TATTTACAGCTGCT

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

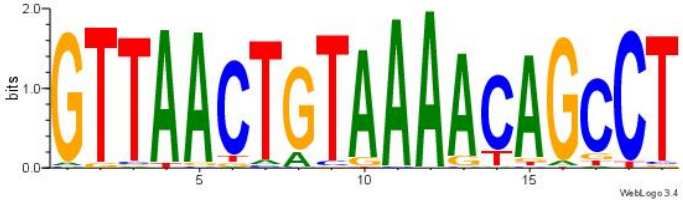

Reverse complement motif Consensus sequence:
AGGCTGTTTTACAGTTAAC

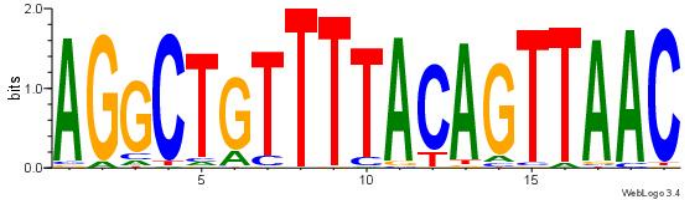

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.109941

Alignment:
AAAGCTGGAGCTATTATCTA
--AGCAGCTGTAAATA----

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

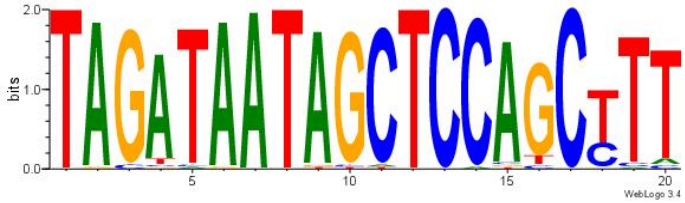

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

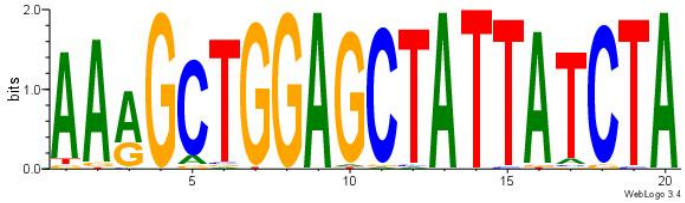

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.110158

Alignment:

```
CACCAGGAGATTATATCCCR
-AGCAGCTGTAAATA-----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

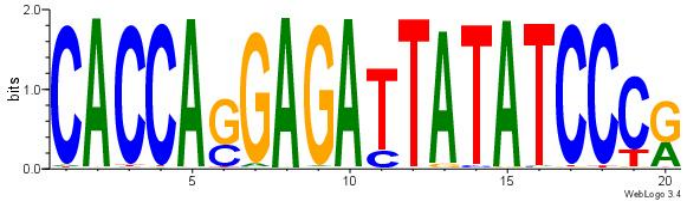

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

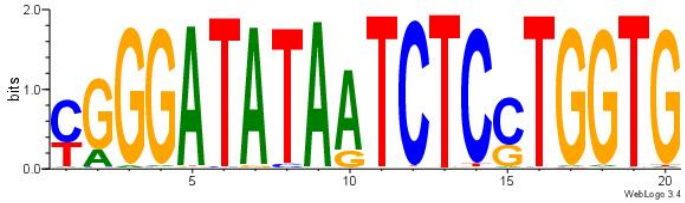

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.114432

Alignment:

```
AAGAGGTTTAATTGRCTCA
AGCAGCTGTAAATA-----
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

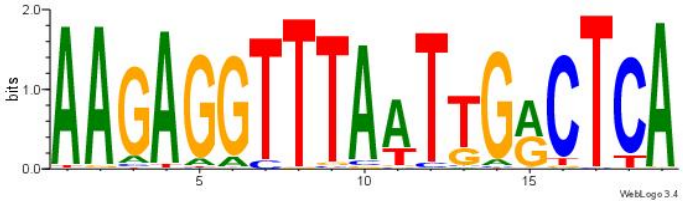

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

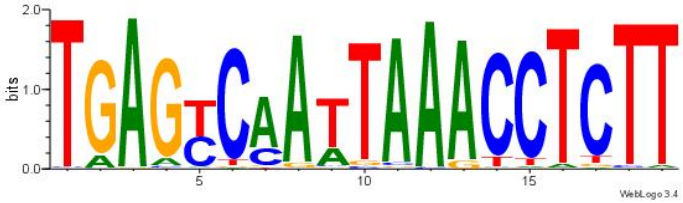

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.11485

Alignment:
CAAGCGCCAGCTCATGTC
-TATTTACAGCTGCT---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

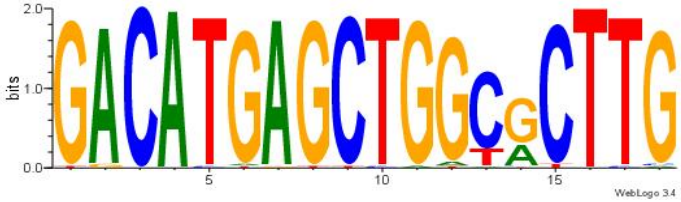

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

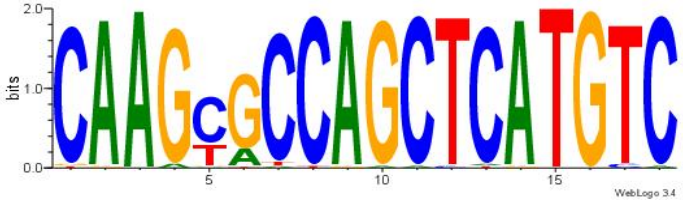

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 14
Similarity score: 0.115249

Alignment:
KACGGGCTTAARAAACGGC
----AGCAGCTGTAAATA-

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

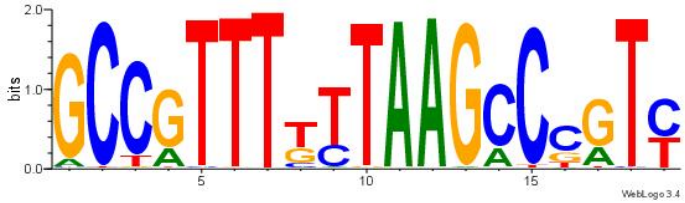

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

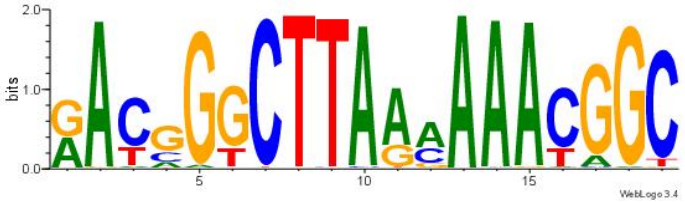

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.115716

Alignment:

```
AACAACAACAACAAMAA
---AGCAGCTGTAAATA
```

Original motif Consensus sequence: AACAACAACAACAAMAA

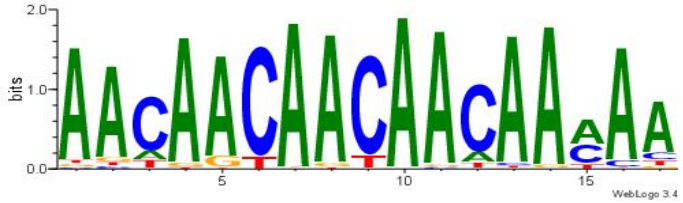

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

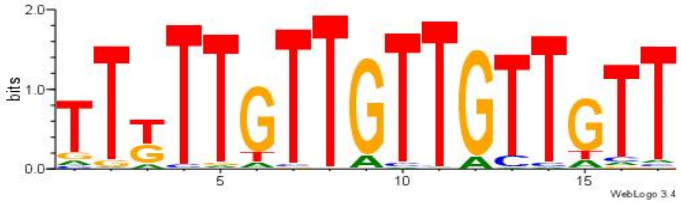

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.117576

Alignment:

```
TTMGTCCCAGAGGGGCACC
-TATTTACAGCTGCT----
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

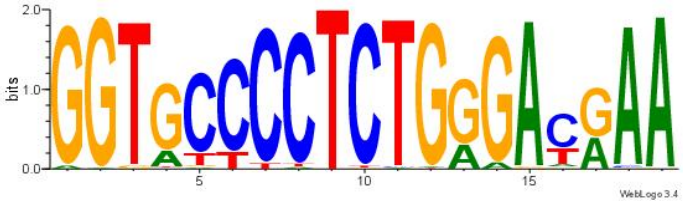

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

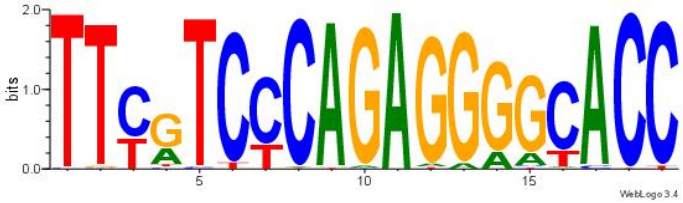

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.117582

Alignment:
GGCAATGCCTCGCCCTGCTT
-----TATTTACAGCTGCT-

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

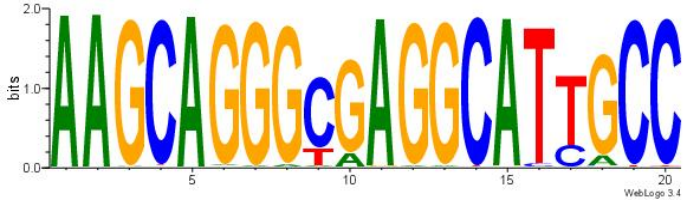

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

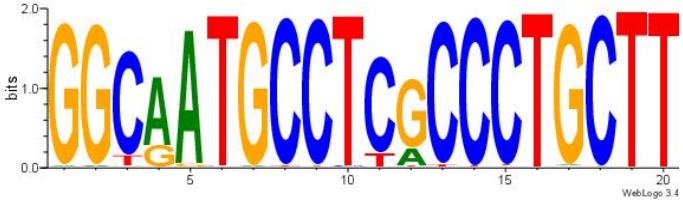

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 14
Similarity score: 0.118142

Alignment:
GTKTMTATMTACCACATTTT
-----TATTTACAGCTGCT-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

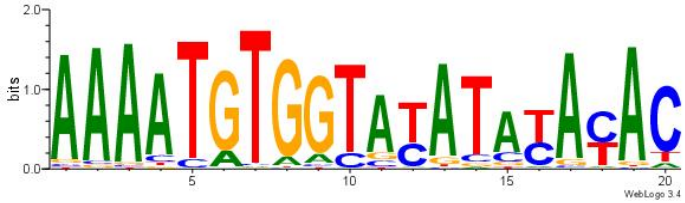

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

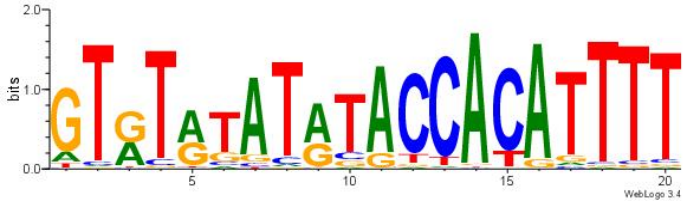

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.118792

Alignment:

```
CATGGCGGGCTGCAGGTC
----TATTTACAGCTGCT
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

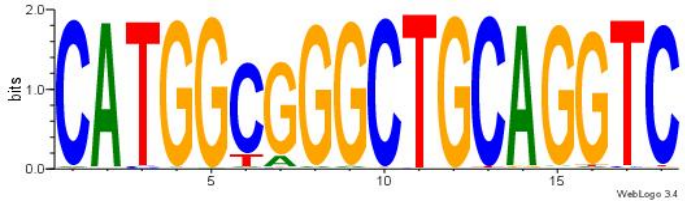

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

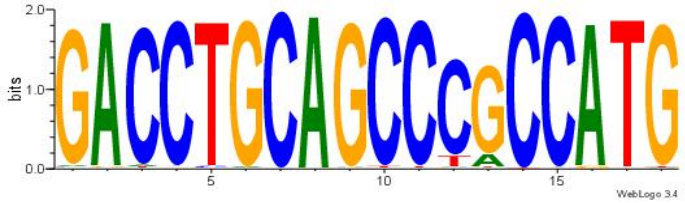

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.118816

Alignment:

```
TGGGGCTCCAGATG
AGCAGCTGTAAATA
```

Original motif Consensus sequence: CATCTGGAGCCCCA

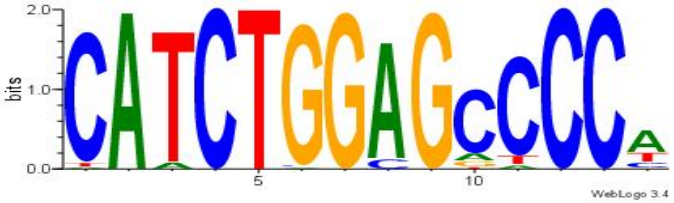

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

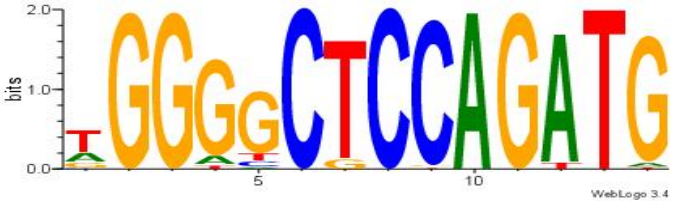

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.119191

Alignment:
CCTAGATTTCAGARGATGT
--TATTTACAGCTGCT---

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

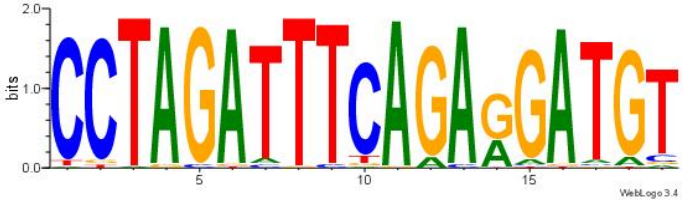

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

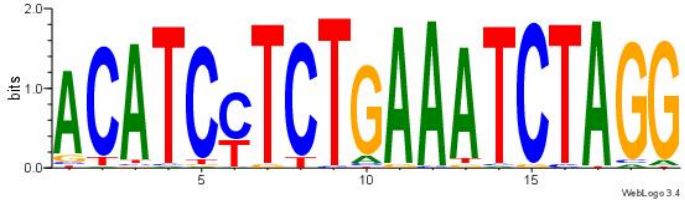

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.119461

Alignment:
AGGTTTGTTACATAGGTAWA
--TATTTACAGCTGCT----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

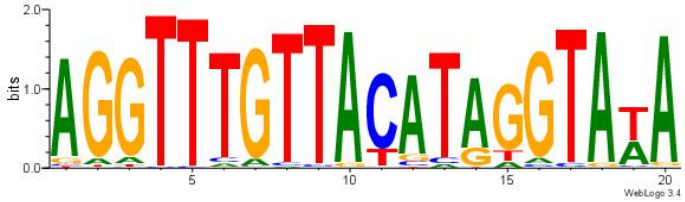

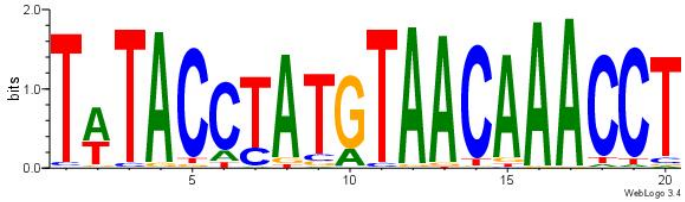

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.11951

Alignment:

```
CTATTGTGAATARTGCTGC
--TATTTACAGCTGCT---
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

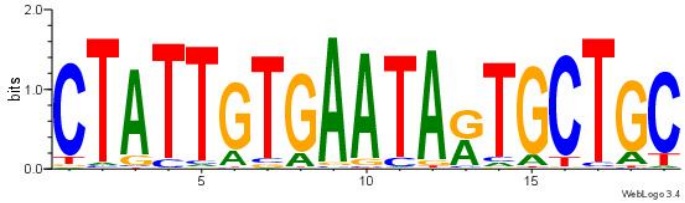

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

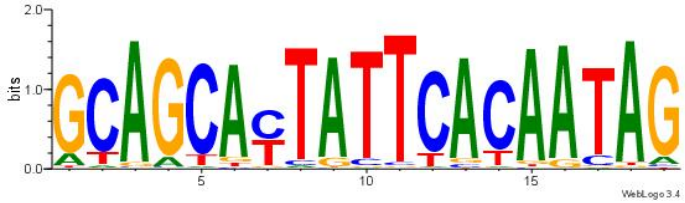

Dataset #: 1

Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.120099

Alignment:

```
AGAAAGGCATGTGAAAA
---AGCAGCTGTAAATA
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

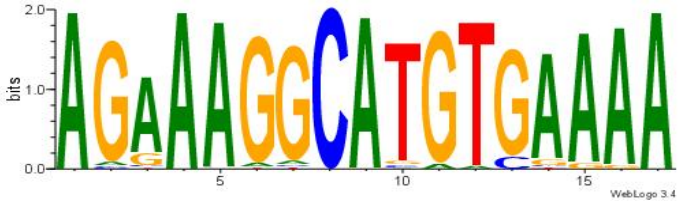

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

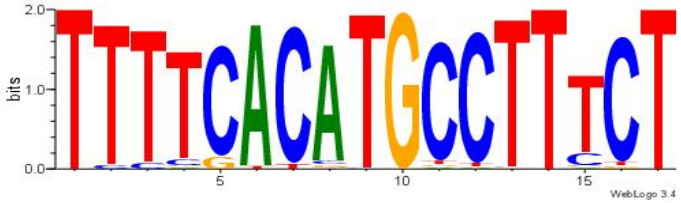

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.120418

Alignment:
GGTTTTCCATTCCTGAG
TATTTACAGCTGCT---

Original motif Consensus sequence: CTCAGGAATGGAAAACC

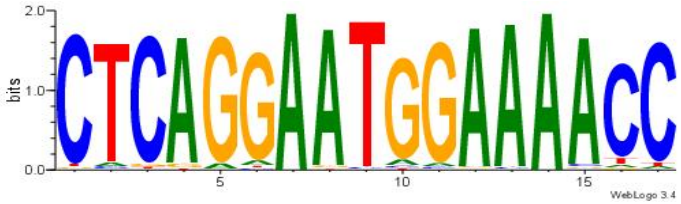

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

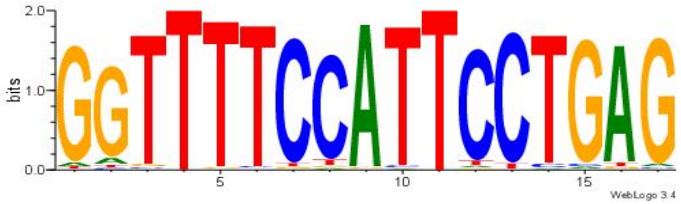

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.120431

Alignment:
CCTGCCATTGCYSAGGCTTG
--TATTTACAGCTGCT----

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

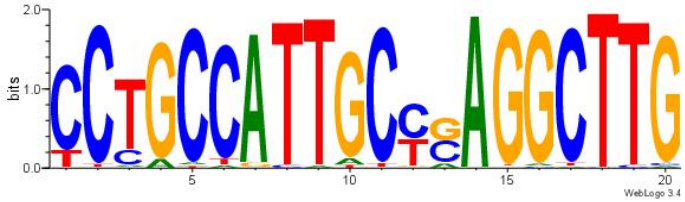

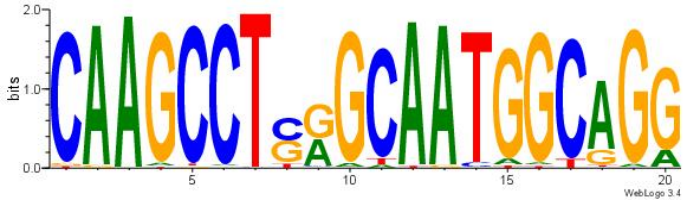

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.121072

Alignment:

```
AAATTACCCAGTCTCAGGTA
------TATTTACAGCTGCT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

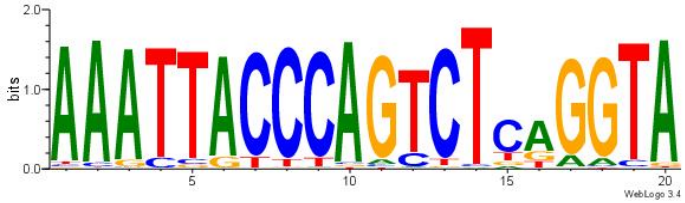

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

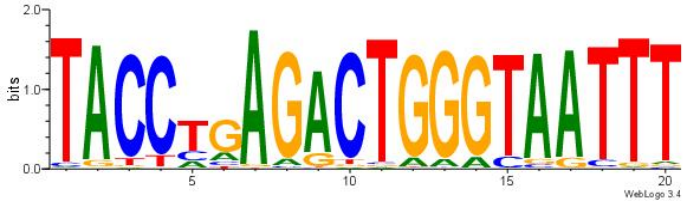

Dataset #: 1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.12108

Alignment:

```
ACTGTCTTCCACCTCCACAT
---TATTTACAGCTGCT---
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

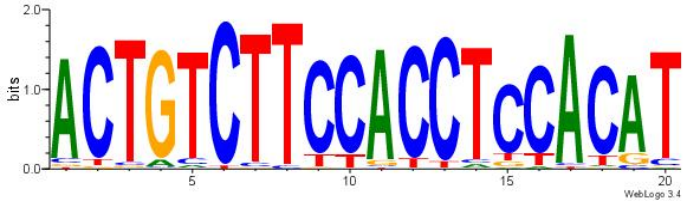

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

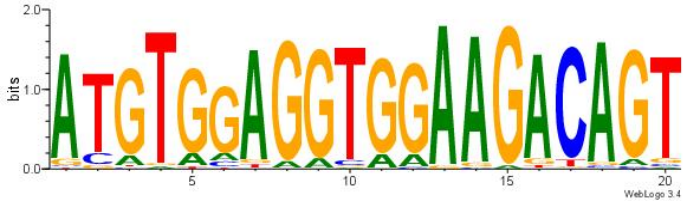

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14

Similarity score: 0.121363

Alignment:
AGCCTCCAGAACTGT
AGCAGCTGTAAATA-

Original motif Consensus sequence: AGCCTCCAGAACTGT

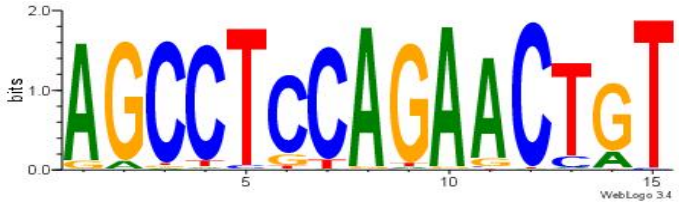

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.12139

Alignment:
TTGGTAGGATCCGTGATGCC
-AGCAGCTGTAAATA-----

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

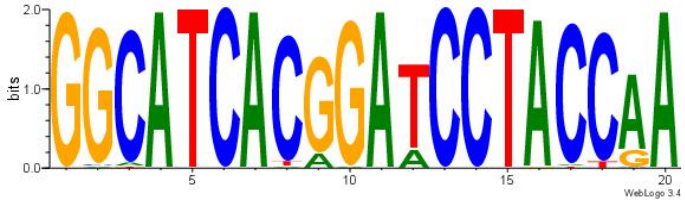

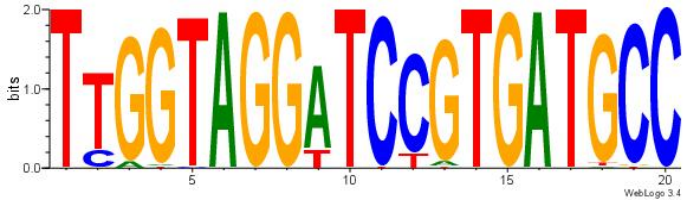

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.121465

Alignment:

```
GACAGGAGATTAACACTGAG
---AGCAGCTGTAAATA---
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

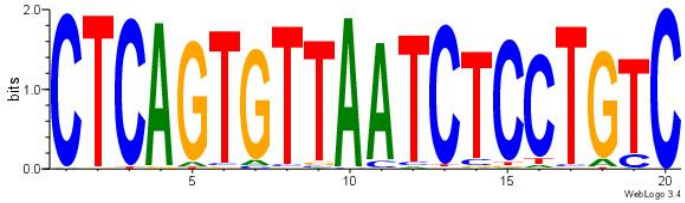

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

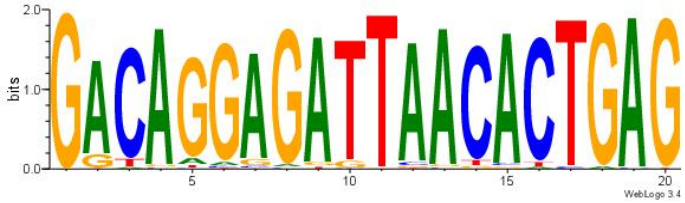

Dataset #:	1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.121539

Alignment:

```
GAAATTGACTTCCTCCT
--TATTTACAGCTGCT-
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

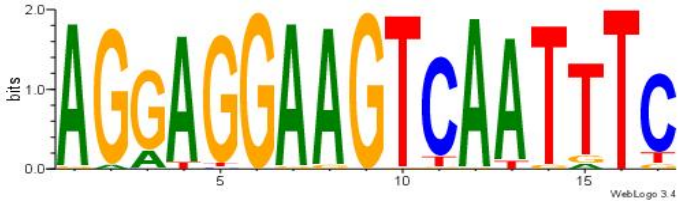

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

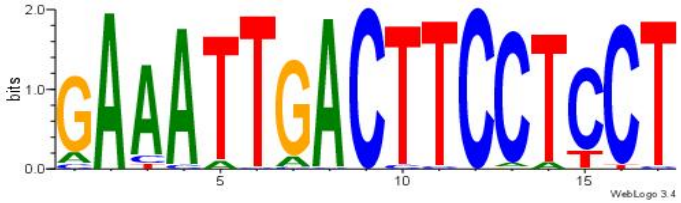

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.121627

Alignment:
AGAAATCGAGCRCAGCGCCG
---TATTTACAGCTGCT---

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

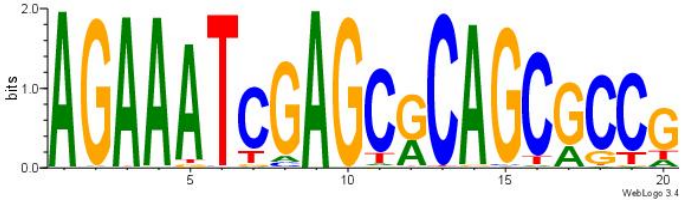

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

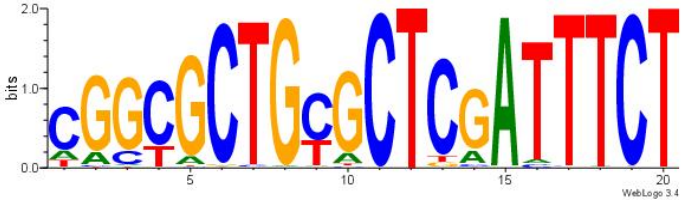

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 14
Similarity score: 0.121672

Alignment:
AAAACCAGCAAGTTTTTAT
AGCAGCTGTAAATA-----

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

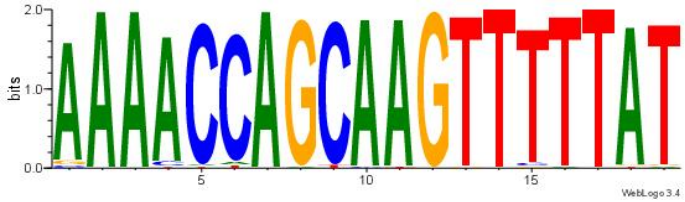

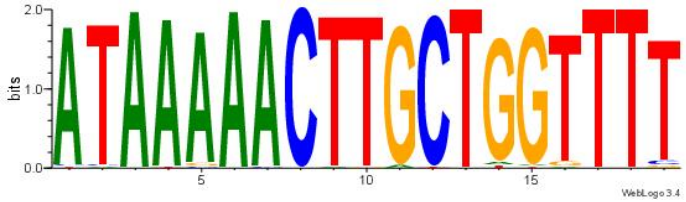

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.122282

Alignment:

```
AGCTAGAYACAGAGTGC
TATTTACAGCTGCT---
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

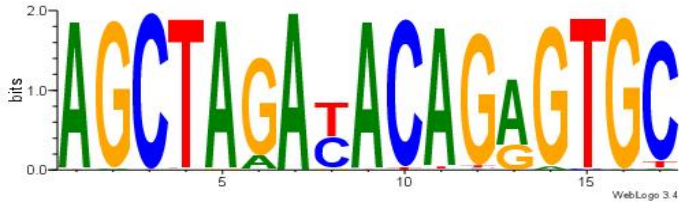

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

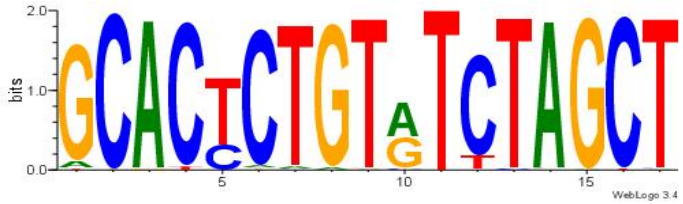

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.122564

Alignment:

```
CAAGGGTATAYGAGTAGCTG
--AGCAGCTGTAAATA----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

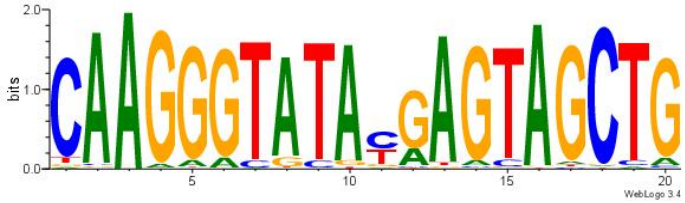

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

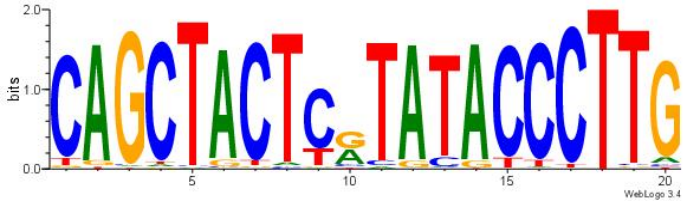

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14

Similarity score: 0.122916

Alignment:
TAAAAGACTACAWATTGGGT
--AGCAGCTGTAAATA----

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

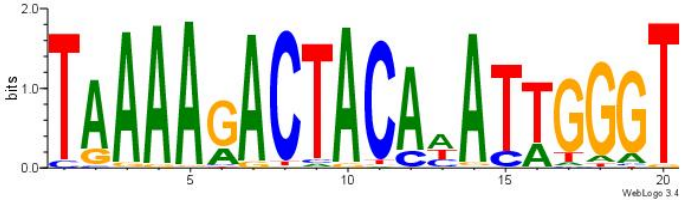

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

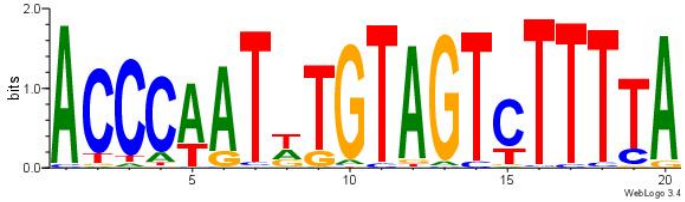

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.122935

Alignment:
CAGTCTGTGTCTTTTAATT
-----AGCAGCTGTAAATA

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

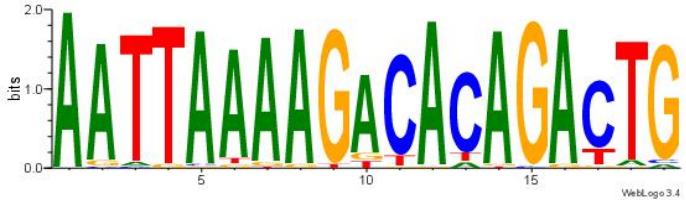

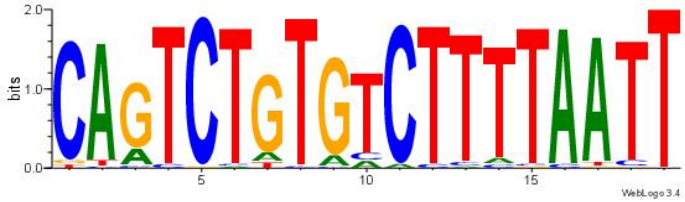

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.123022

Alignment:

```
CCCATGCAAGTCYRAAATCC
----AGCAGCTGTAAATA--
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

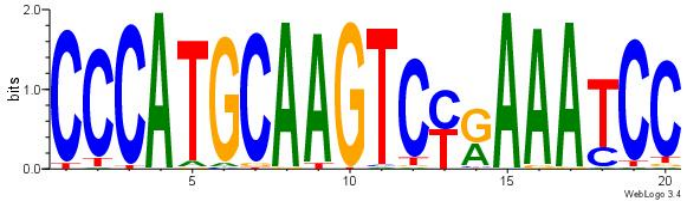

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

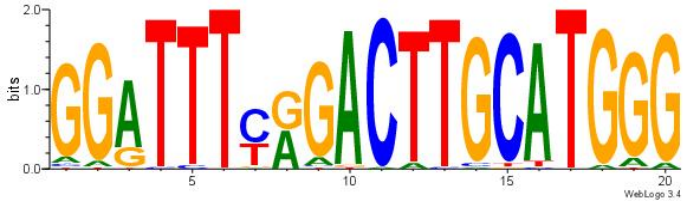

Dataset #:	1

Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.123766

Alignment:

```
GGGAGGGATATATTAGC
AGCAGCTGTAAATA---
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

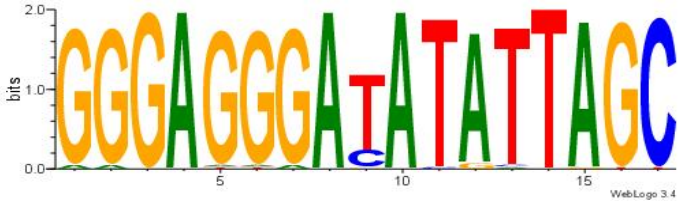

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

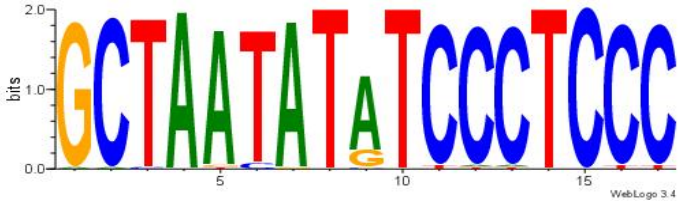

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14

Similarity score: 0.124304

Alignment:
TCCTATGAGAATCTAATG
---TATTTACAGCTGCT-

Original motif Consensus sequence: CATTAGATTCTCATAGGA

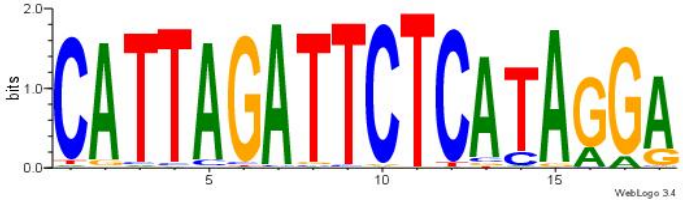

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

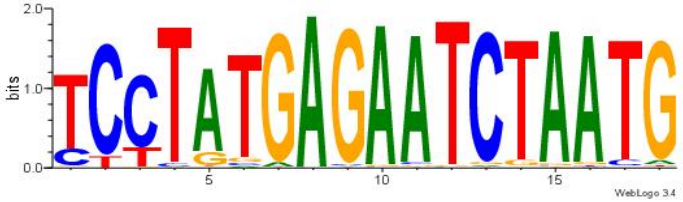

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.124433

Alignment:
CCCGAAGCTGCRYRCTCGGT
--AGCAGCTGTAAATA----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

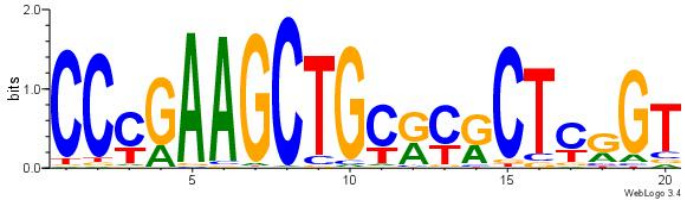

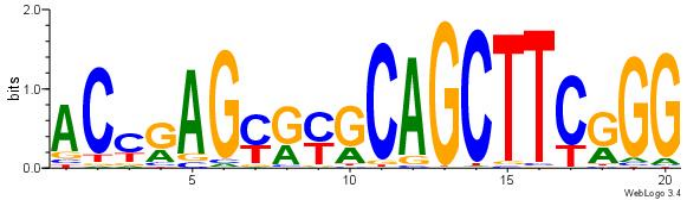

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.125235

Alignment:

```
CAAGTTGACACATAAAATTA
------AGCAGCTGTAAATA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

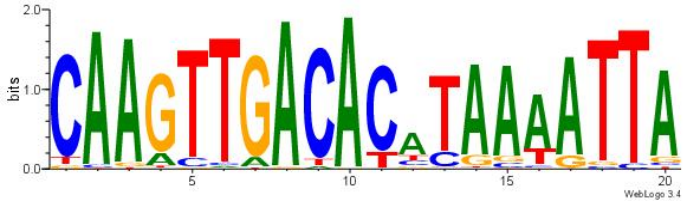

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

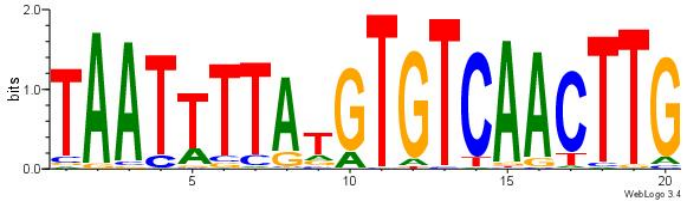

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.125482

Alignment:

```
CGTCGCTCACGCTGGGAGCT
--TATTTACAGCTGCT----
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

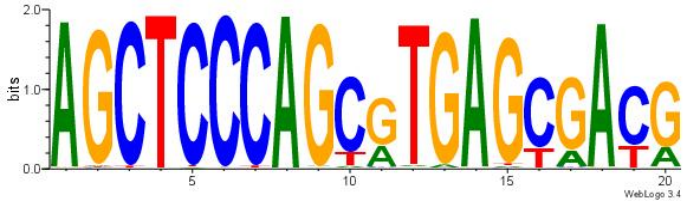

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

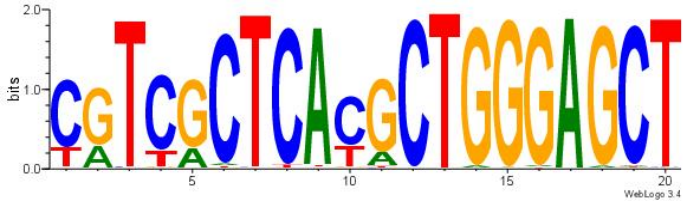

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

Similarity score: 0.125686

Alignment:
AGTAGGTGCTCARTAAATRB
---AGCAGCTGTAAATA---

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

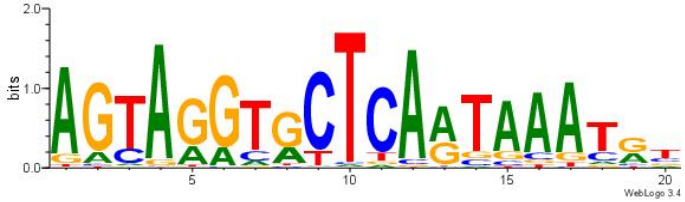

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

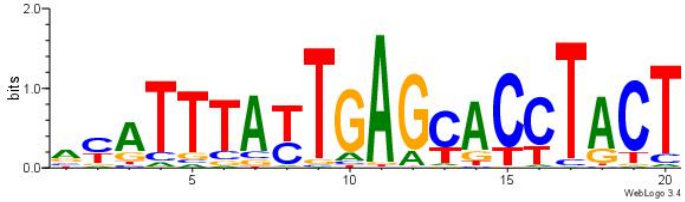

Dataset #: 1
Motif ID: 91
Motif name: Motif 91
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.125766

Alignment:
TTGAGACMGKGTCT
TATTTACAGCTGCT

Original motif Consensus sequence: AGACYCYGTCTCAA

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

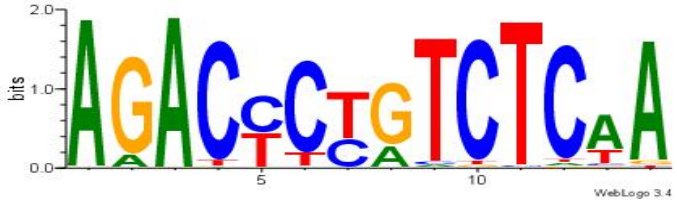

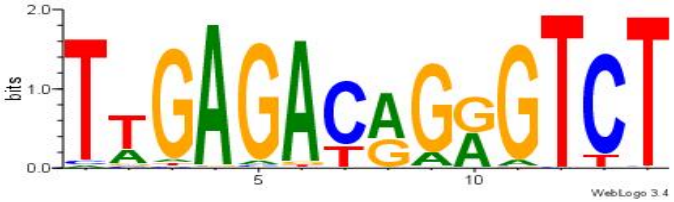

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.125975

Alignment:

```
ATTGATMKCCAGGGTTGATT
-----TATTTACAGCTGCT-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

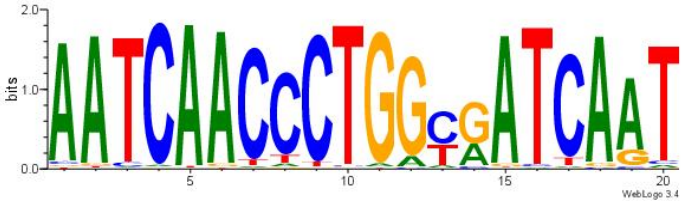

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

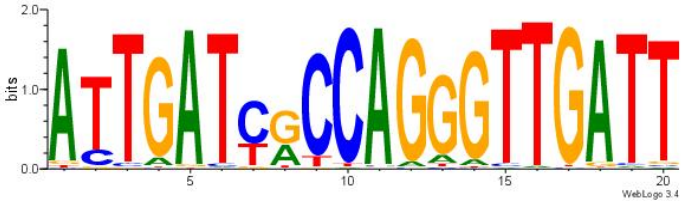

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.126359

Alignment:

```
AGGAACAGCTCCRGTCTAC
---AGCAGCTGTAAATA--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

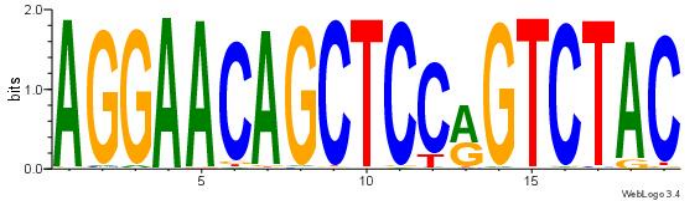

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

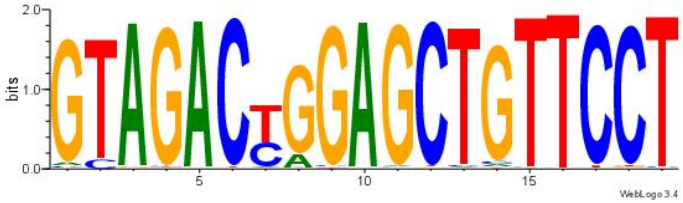

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14

Similarity score: 0.126553

Alignment:
GCGCTCKTCGGGGAGGCTCG
----TATTTACAGCTGCT--

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

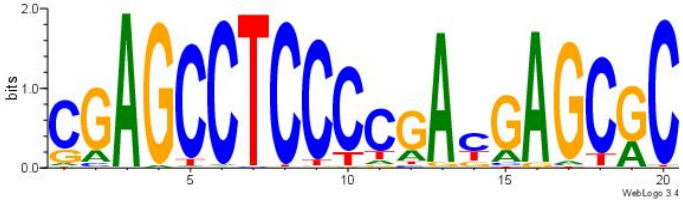

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

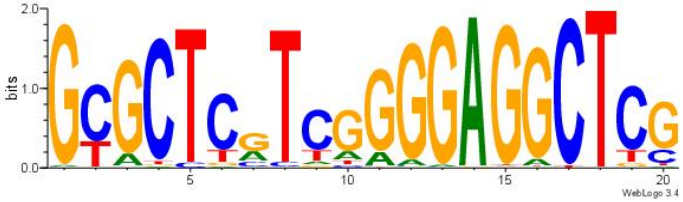

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.12663

Alignment:
CRTGAGCCACYGYRCCYGGC
----AGCAGCTGTAAATA--

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

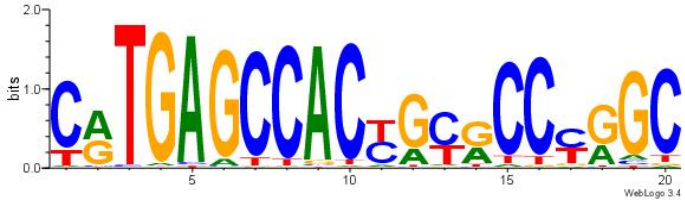

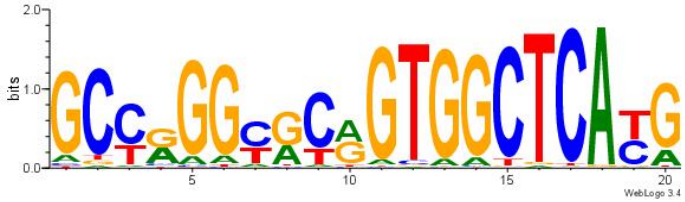

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.127629

Alignment:

```
GTAACACTCACCGCGARGGT
--TATTTACAGCTGCT----
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

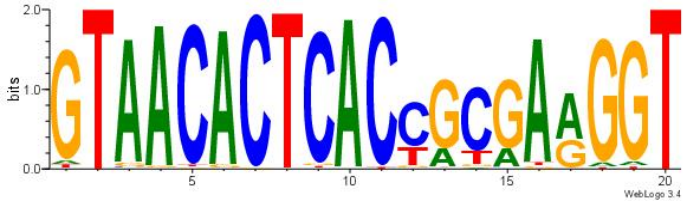

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

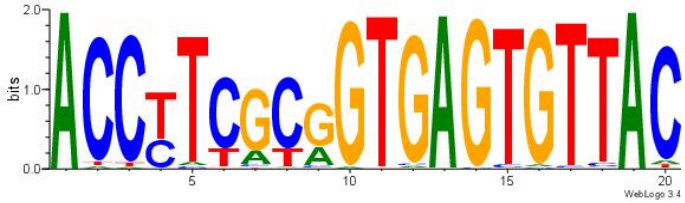

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.127967

Alignment:

```
AAGGAACAAACTCCRGACAC
-----AGCAGCTGTAAATA-
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

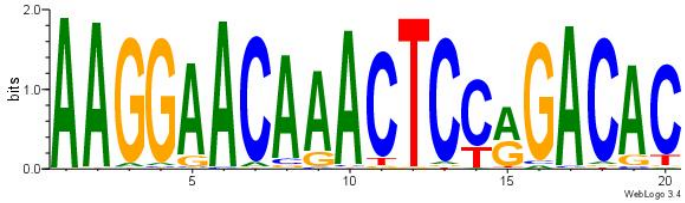

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

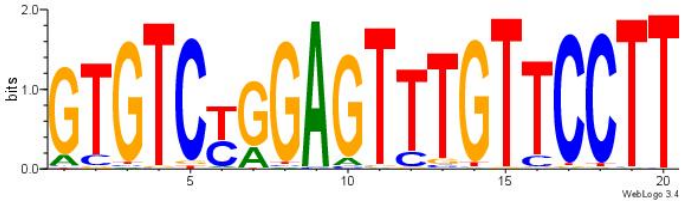

Dataset #: 1 Motif ID: 326 Motif name: Motif 326

Original motif Consensus sequence: GACATGGAGTCAAAGG

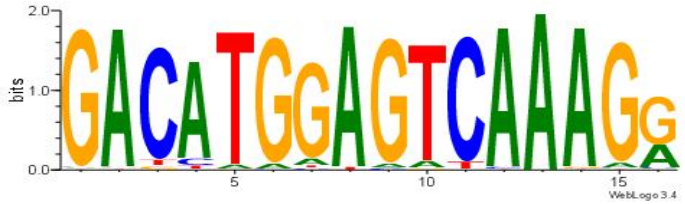

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

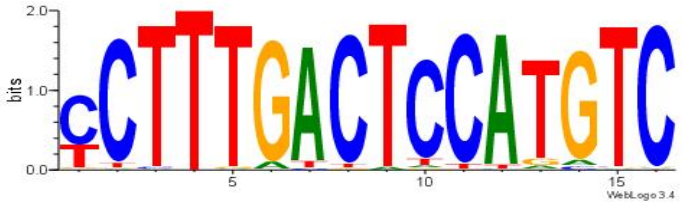

Best Matches for Motif ID 326 (Highest to Lowest)

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0861073

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-GACATGGAGTCAAAGG---
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

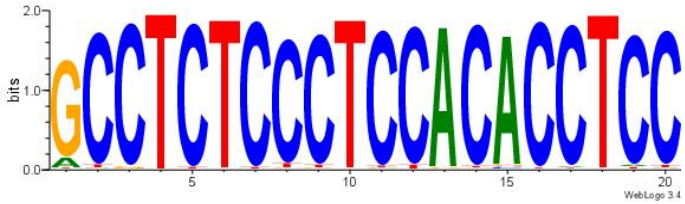

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

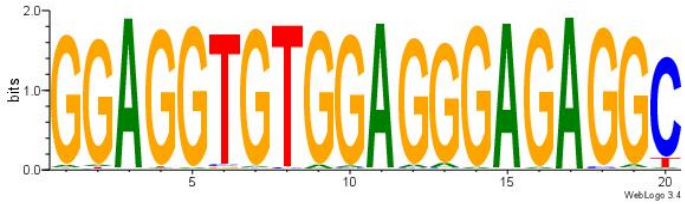

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0886417

Alignment:
TGATACCCAGGCAAACAG
-GACATGGAGTCAAAGG-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

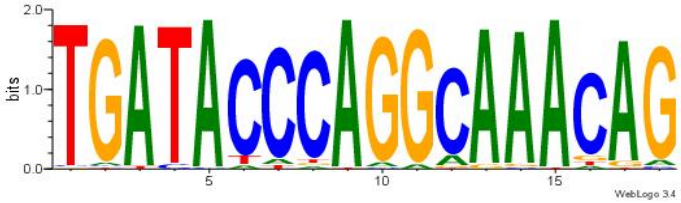

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

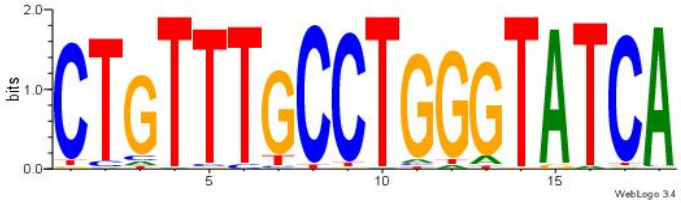

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0935769

Alignment:
CTCCAGKTMCATCCATGTTG
---CCTTTGACTCCATGTC-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

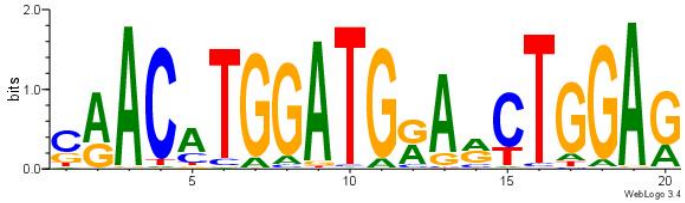

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

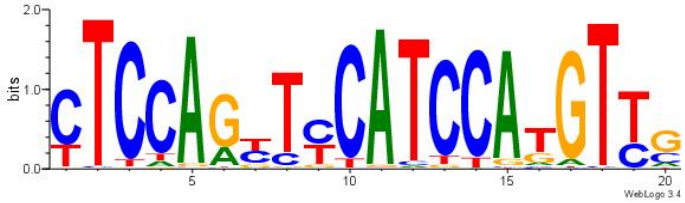

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0948138

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
--CCTTTGACTCCATGTC--
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

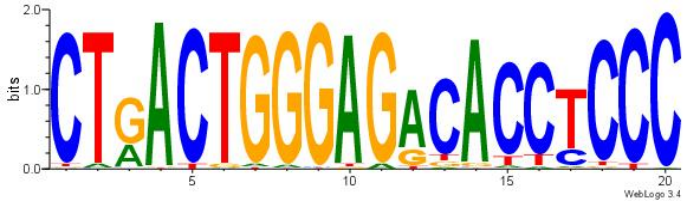

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

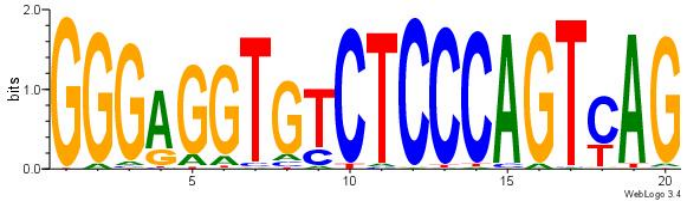

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0957162

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
GACATGGAGTCAAAGG----
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

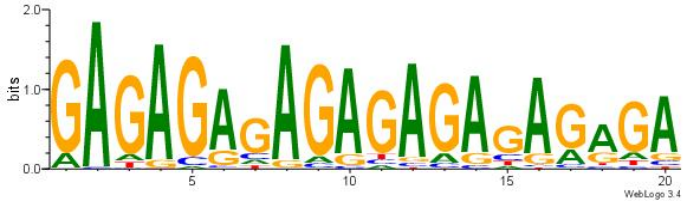

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

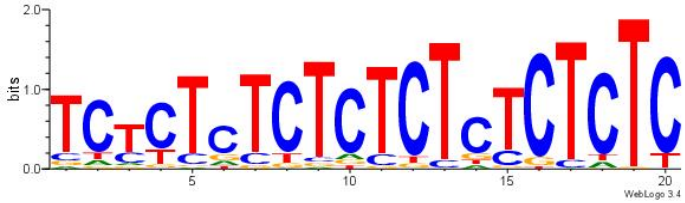

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.0960134

Alignment:
KACATTGATTTTGTATC
-CCTTTGACTCCATGTC

Original motif Consensus sequence: GATACAAAATCAATGTR

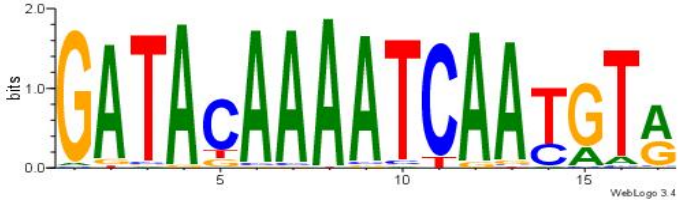

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

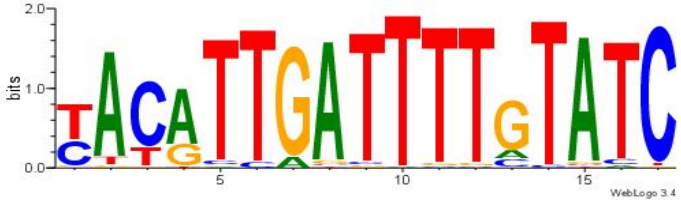

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.0962932

Alignment:
AGAAATCGAGCRCAGCGCCG
-GACATGGAGTCAAAGG---

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

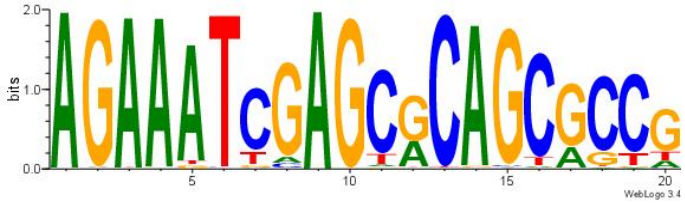

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

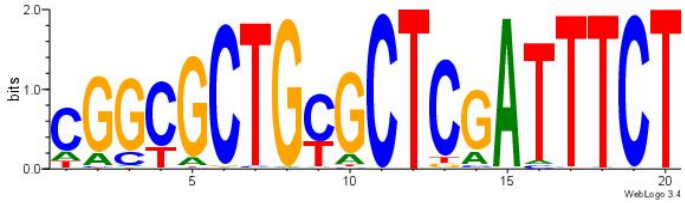

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.100603

Alignment:

```
ATACAATGGGGGTACAGRC
--GACATGGAGTCAAAGG-
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

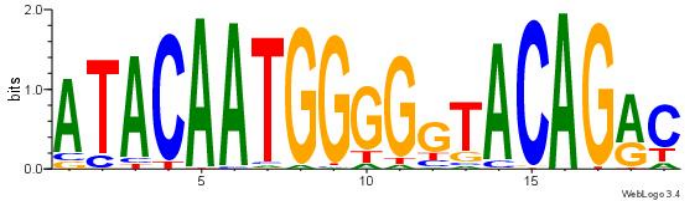

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

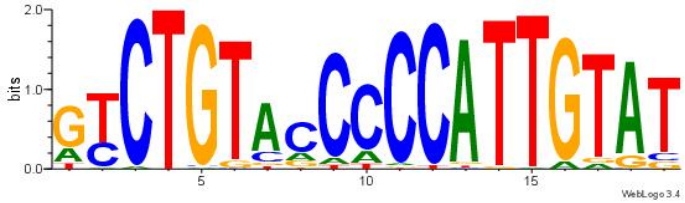

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.103549

Alignment:

```
AGACAGTGGGYGCAGGHCA
-GACATGGAGTCAAAGG--
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

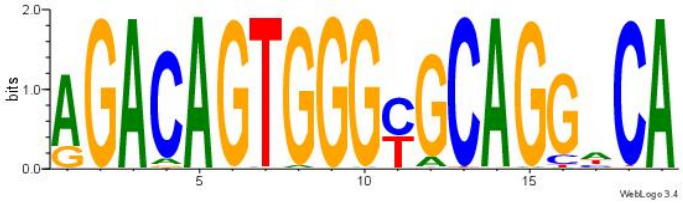

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

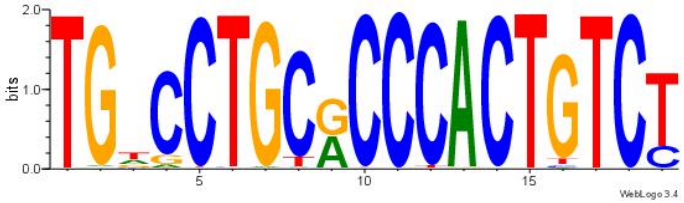

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.10537

Alignment:
AGCTGTGAGAAGAGGGCCAC
---CCTTTGACTCCATGTC-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

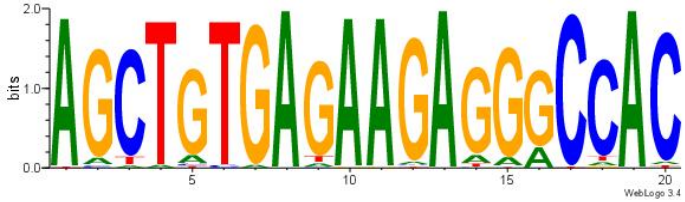

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

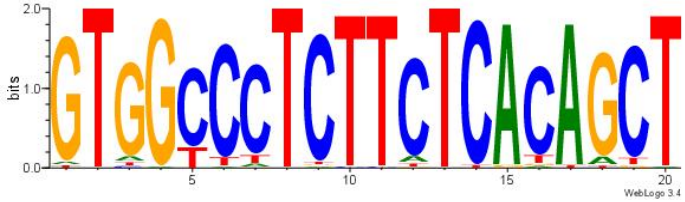

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.106515

Alignment:
GCACATGTAYCCYAGAACTT
-GACATGGAGTCAAAGG---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

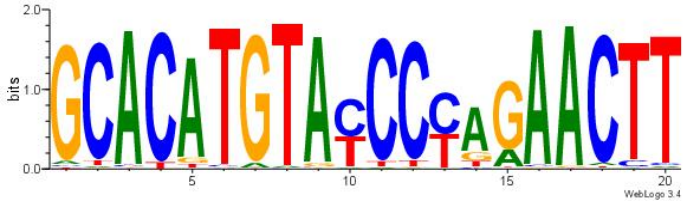

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

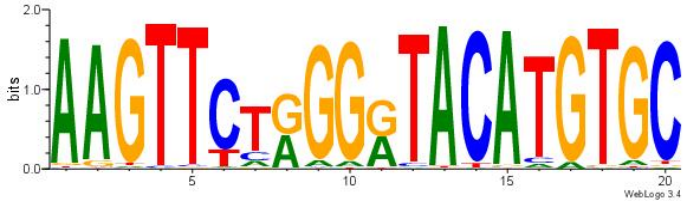

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.106548

Alignment:

```
CATGGCGGGCTGCAGGTC
CCTTTGACTCCATGTC--
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

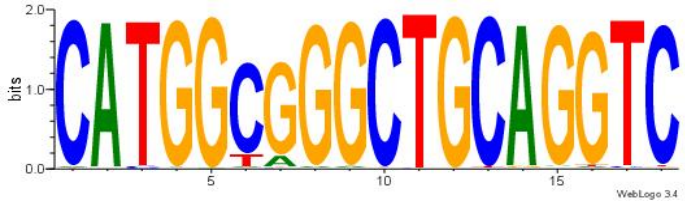

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

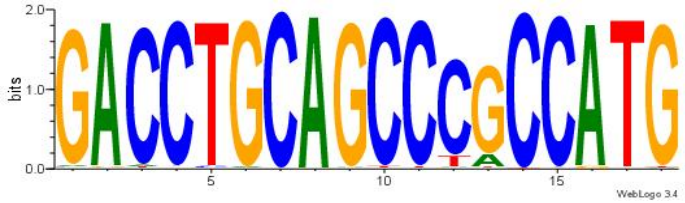

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.10659

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
CCTTTGACTCCATGTC----
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

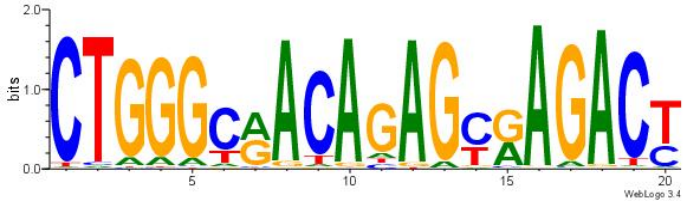

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

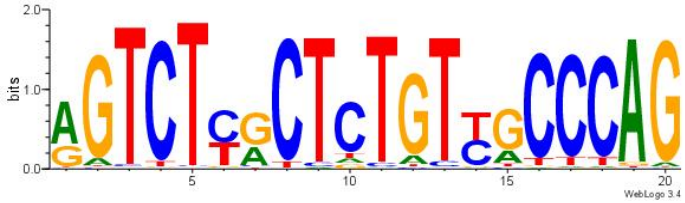

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 16
Similarity score: 0.106693

Alignment:
ATCRCTTGAGSYCAGGAGKT
--CCTTTGACTCCATGTC--

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

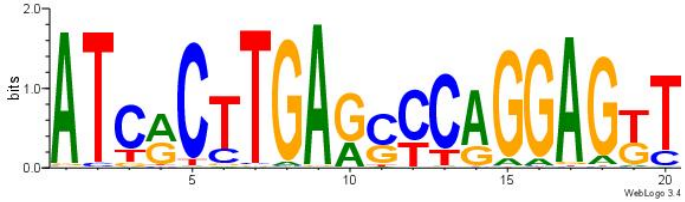

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

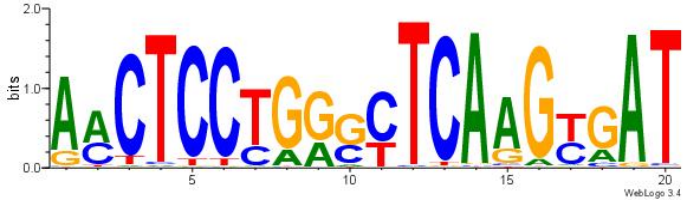

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.108601

Alignment:
GCCAATTTCTCCCATTTGGA
-CCTTTGACTCCATGTC---

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

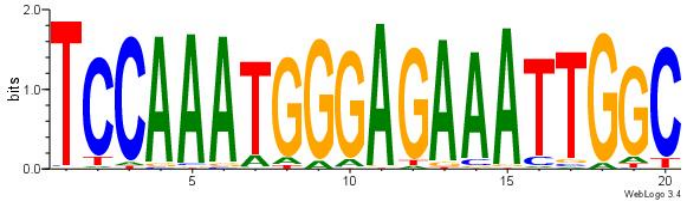

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

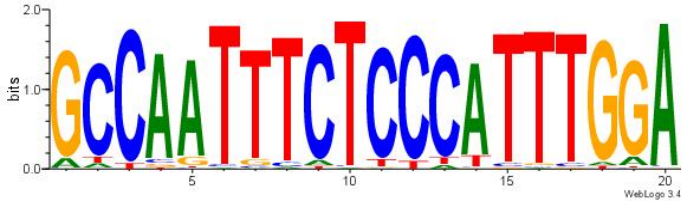

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.109889

Alignment:

```
GAAATTGACTTCCTCCT
-CCTTTGACTCCATGTC
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

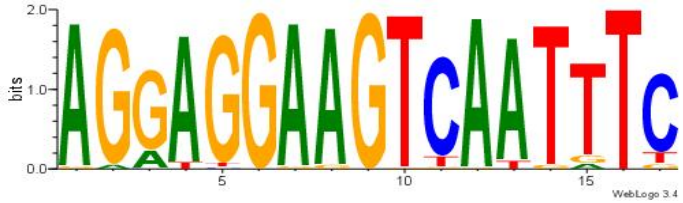

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

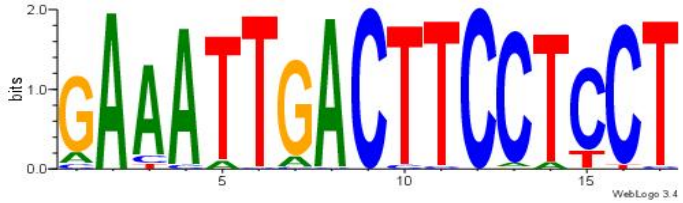

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.110611

Alignment:

```
CTCAGTGTTAATCTCCTGTC
CCTTTGACTCCATGTC----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

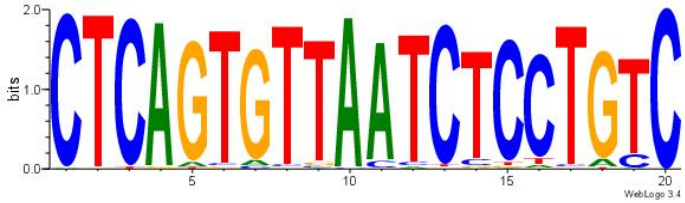

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

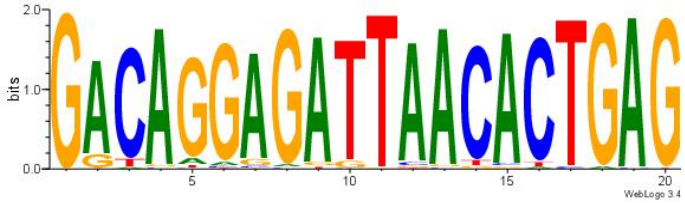

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.112019

Alignment:
GGTGGAGCTGCCTGCCAGTC
----CCTTTGACTCCATGTC

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

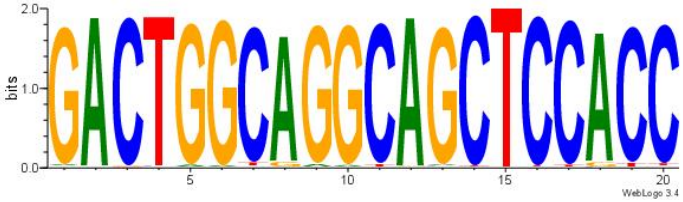

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

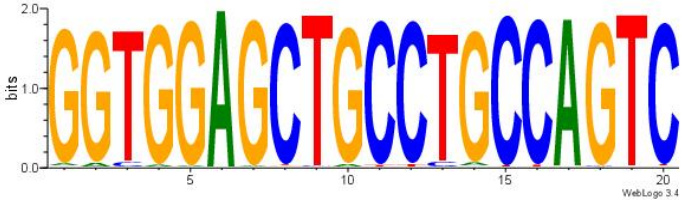

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.113634

Alignment:
GATCACGAGGTCAGGAG
-GACATGGAGTCAAAGG

Original motif Consensus sequence: GATCACGAGGTCAGGAG

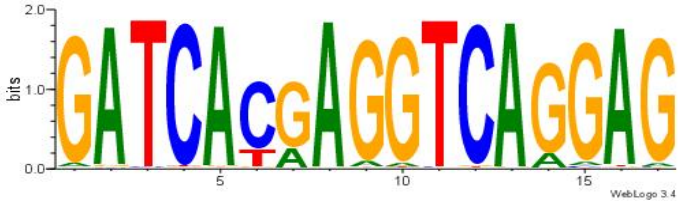

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

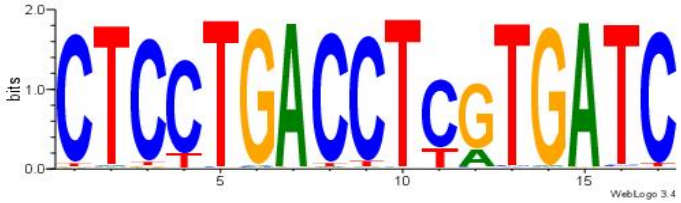

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.114317

Alignment:

```
GTKTMTATMTACCACATTTT
----CCTTTGACTCCATGTC
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

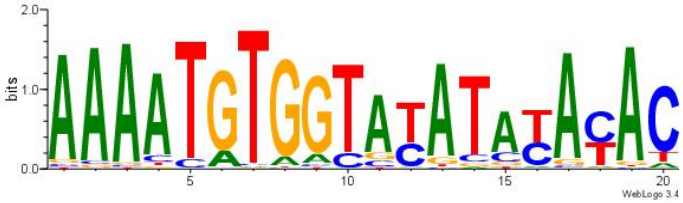

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

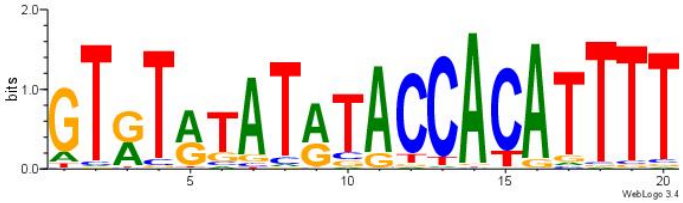

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.11468

Alignment:

```
CCCMKGGCACCCTCAGTCCT
--CCTTTGACTCCATGTC--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

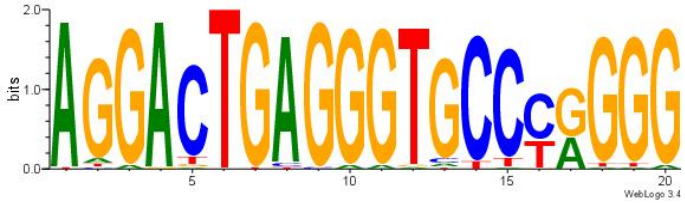

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

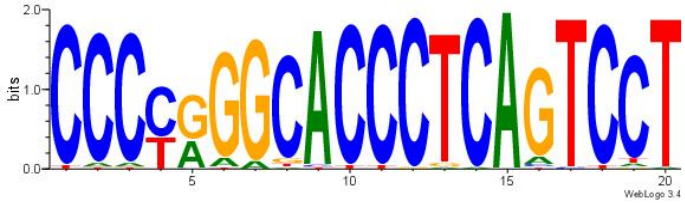

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.114725

Alignment:
AATGAKATCATGTCYTTTGC
-GACATGGAGTCAAAGG---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

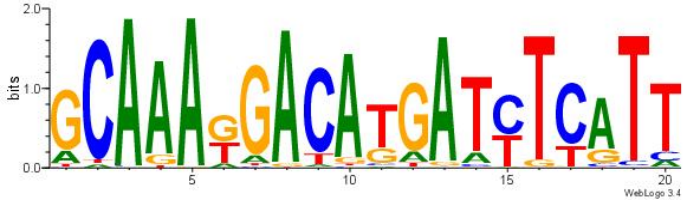

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

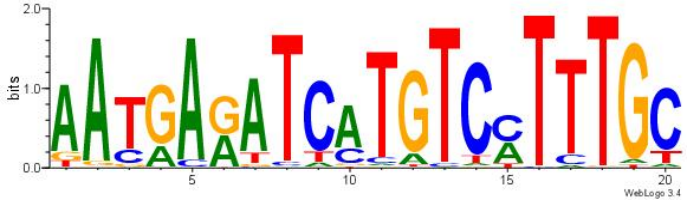

Dataset #: 1
Motif ID: 82
Motif name: Motif 82
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.115411

Alignment:
GCTGGCCCKGGTGCTAAGC
GACATGGAGTCAAAGG---

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

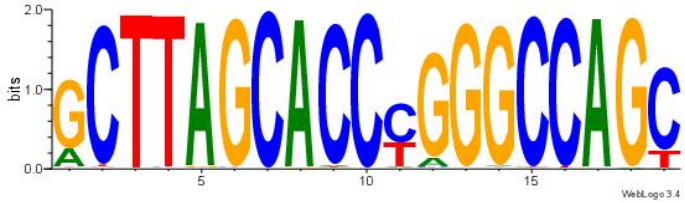

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

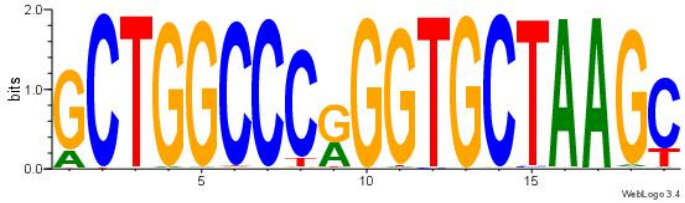

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.115656

Alignment:

```
GCCAGTCACAAAARGACAMA
---CCTTTGACTCCATGTC-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

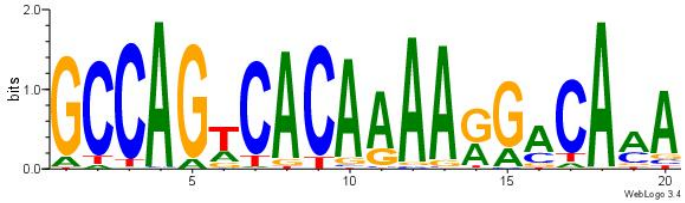

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

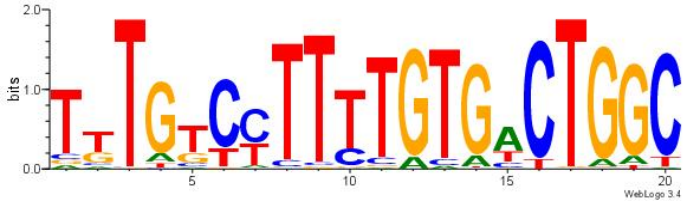

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.11626

Alignment:

```
CGGCTTCATTCTTGAAGTC
---CCTTTGACTCCATGTC
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

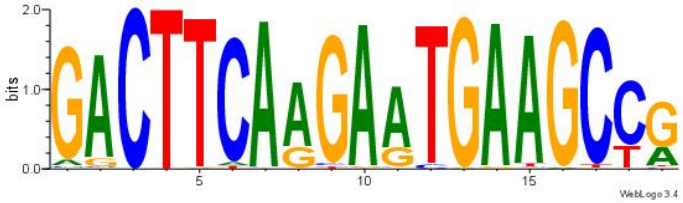

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

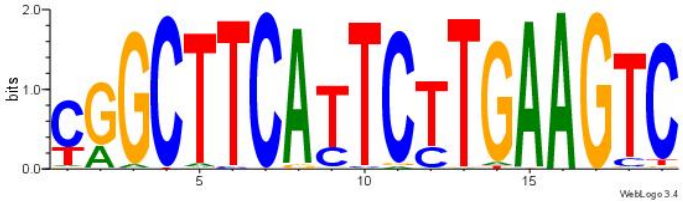

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.116324

Alignment:
GGGTCAGGGAGTTCCCTTTC
--GACATGGAGTCAAAGG--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

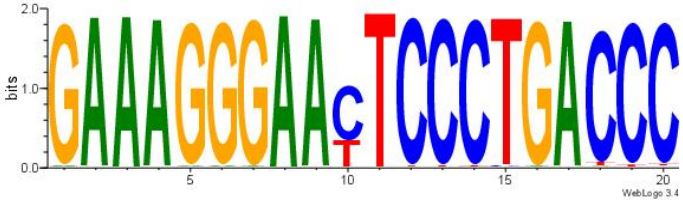

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

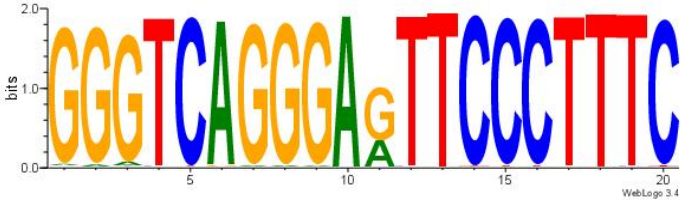

Dataset #: 1
Motif ID: 94
Motif name: Motif 94
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.11635

Alignment:
TAAGTGGGAGCTAARC
GACATGGAGTCAAAGG

Original motif Consensus sequence: TAAGTGGGAGCTAARC

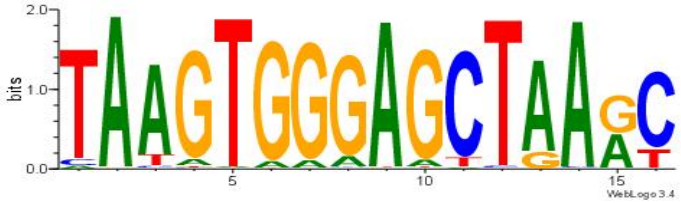

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

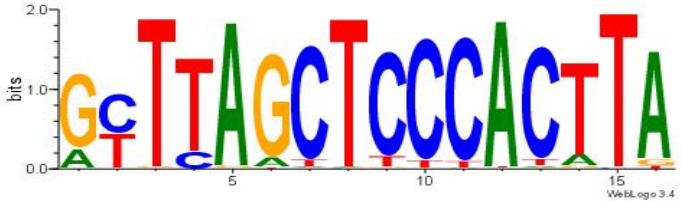

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.117121

Alignment:

```
GCTGTGTGACCTTGGGCAAG
----CCTTTGACTCCATGTC
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

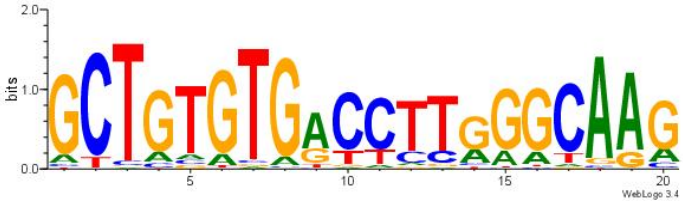

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

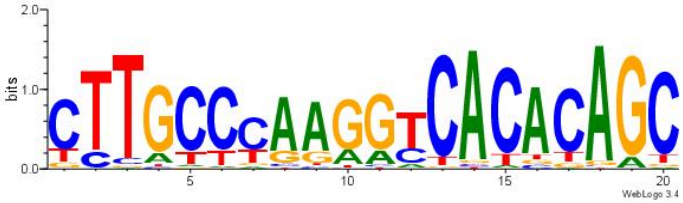

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.117165

Alignment:

```
ACCTGGAAAATCGGGTCACT
---CCTTTGACTCCATGTC-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

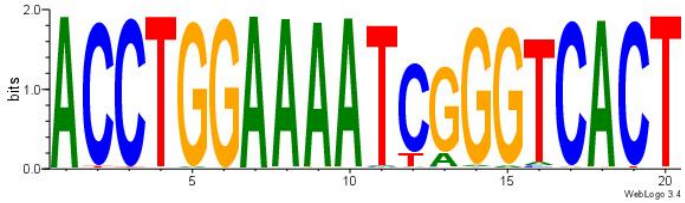

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

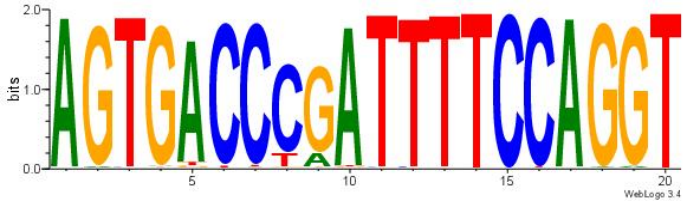

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.117278

Alignment:
CTGAGGACCTGAGGTCRTA
---CCTTTGACTCCATGTC

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

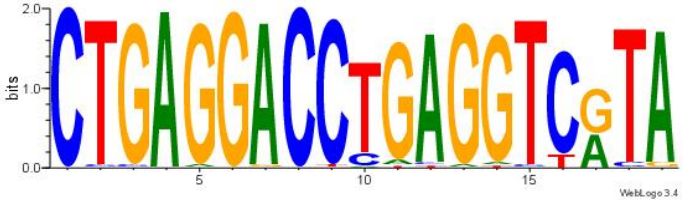

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

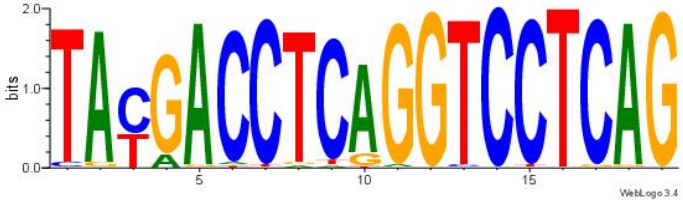

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.117555

Alignment:
AATTAAAAGACACAGACTG
GACATGGAGTCAAAGG---

Original motif Consensus sequence: AATTAAAAGACACAGACTG

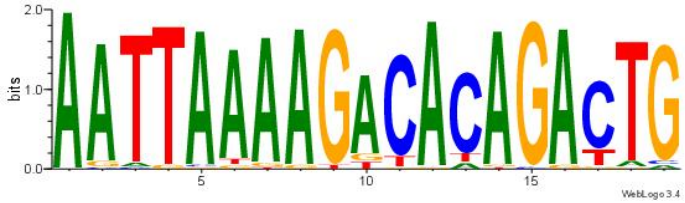

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

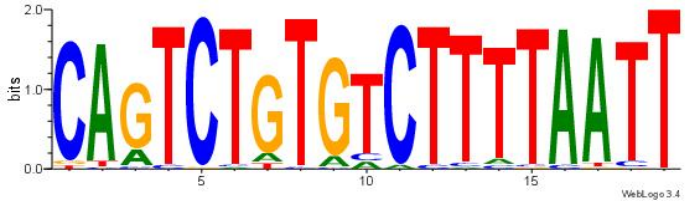

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.118005

Alignment:

```
TCTCTGAGCCTCAGTT
CCTTTGACTCCATGTC
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

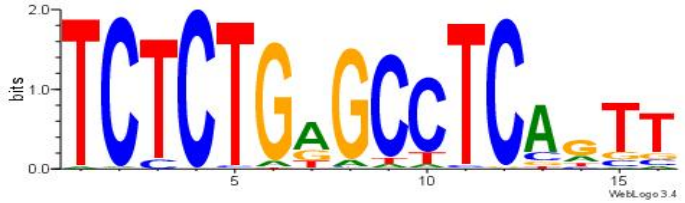

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

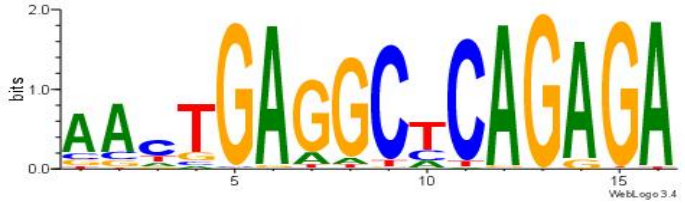

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.118518

Alignment:

```
ACACACAYACACACACACA
---GACATGGAGTCAAAGG
```

Original motif Consensus sequence: ACACACAYACACACACACA

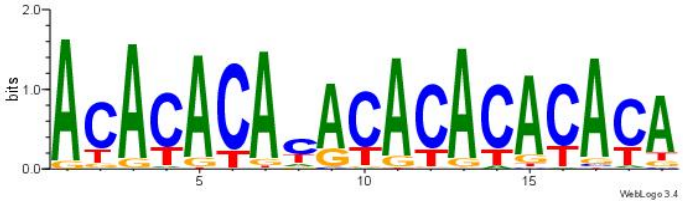

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

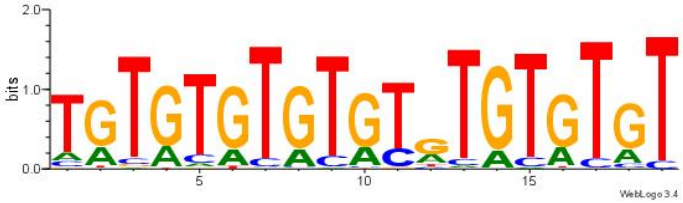

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.118552

Alignment:
GCCKGGMKCMGTGGCTCAKG
GACATGGAGTCAAAGG----

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

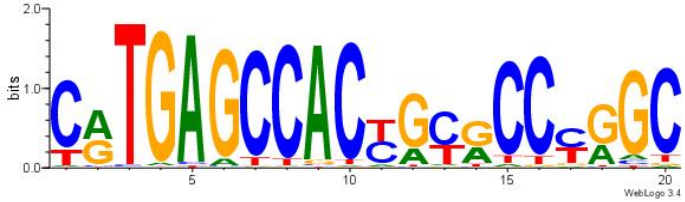

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

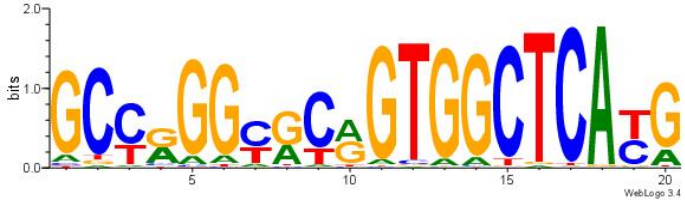

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.119014

Alignment:
AAATTACCCAGTCTCAGGTA
--GACATGGAGTCAAAGG--

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

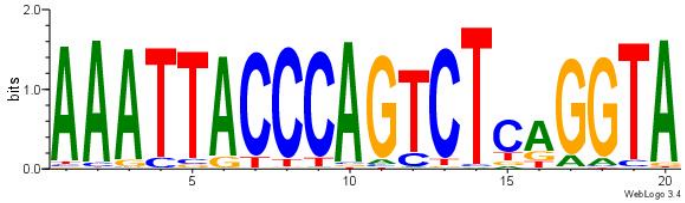

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

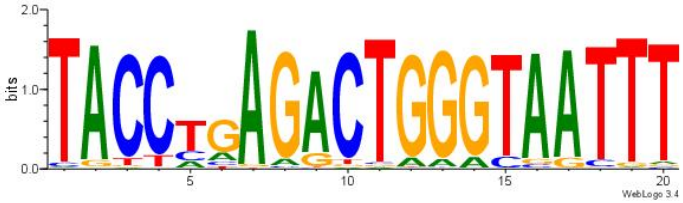

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.119028

Alignment:

```
GAGGAGGRGGAGGDGGV
GACATGGAGTCAAAGG-
```

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

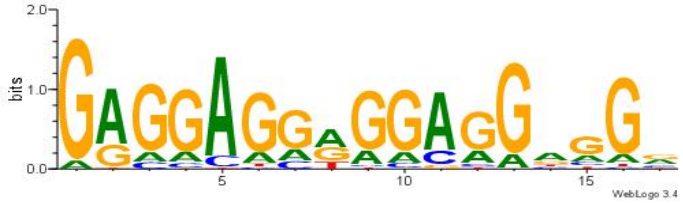

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

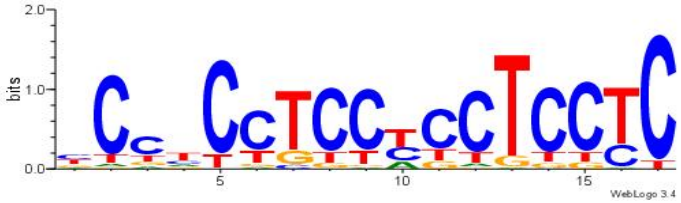

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.1198

Alignment:

```
ATCTGACAGGAGGYRGAGCT
----GACATGGAGTCAAAGG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

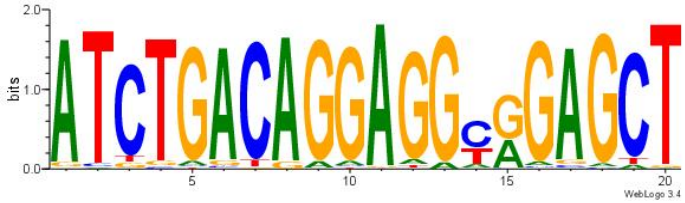

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

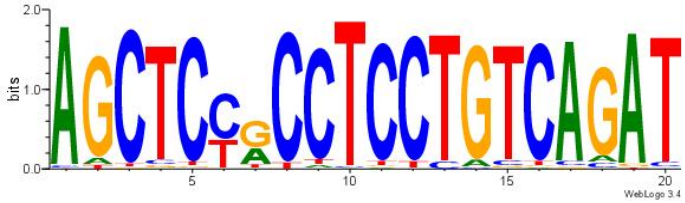

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.120585

Alignment:
AAGCTCGAACTGGGTGGAGC
--CCTTTGACTCCATGTC--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

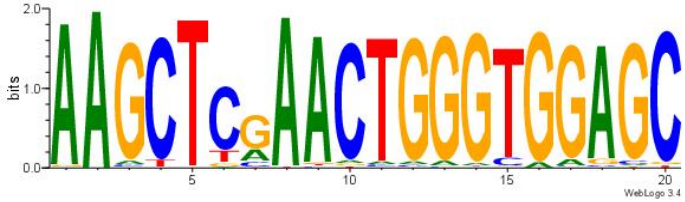

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

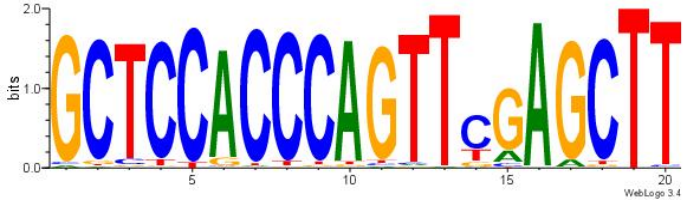

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.120908

Alignment:
ACTTTGGACTGTGGACTTTT
CCTTTGACTCCATGTC----

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

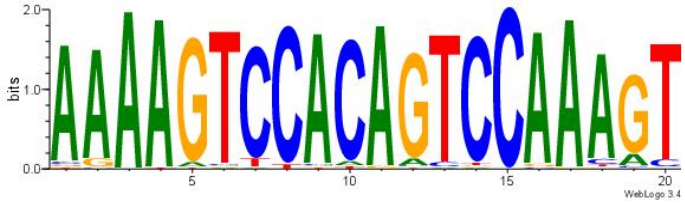

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

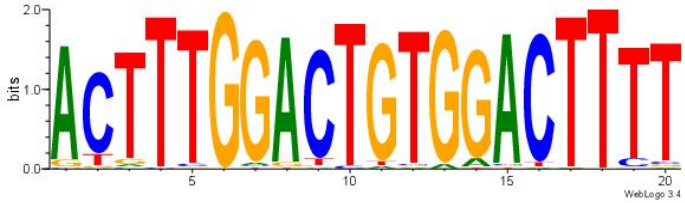

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.12129

Alignment:

```
MGGGATATAATCTCCTGGTG
-GACATGGAGTCAAAGG---
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

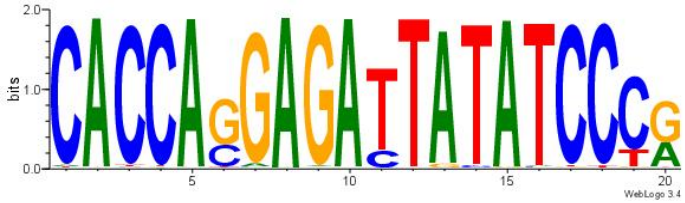

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

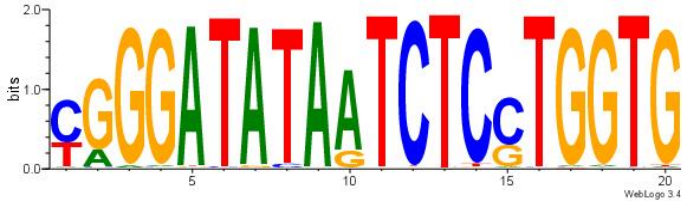

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.121637

Alignment:

```
TAAAAGACTACAWATTGGGT
----CCTTTGACTCCATGTC
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

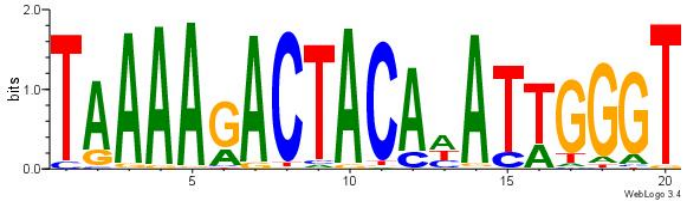

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

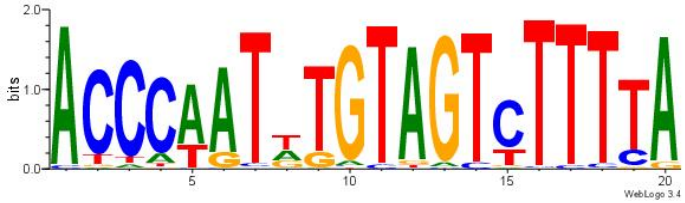

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.121914

Alignment:
TMGGGAGGCTGAGGCAGGAG
GACATGGAGTCAAAGG----

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

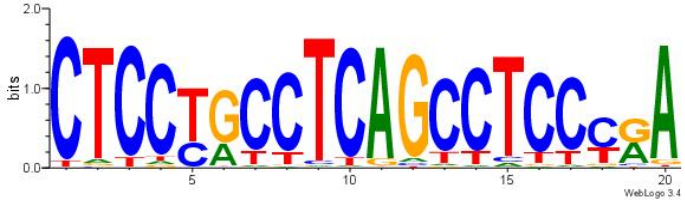

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

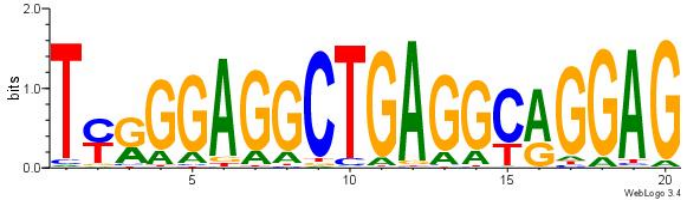

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 16
Similarity score: 0.122107

Alignment:
GCTGGAGTGCAGTGGCRYGA
---GACATGGAGTCAAAGG-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

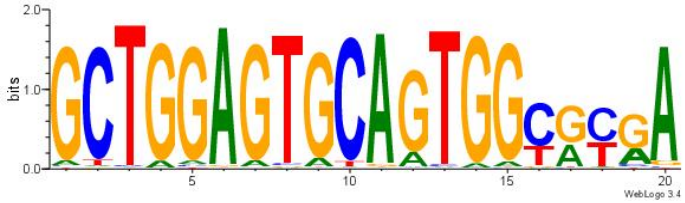

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

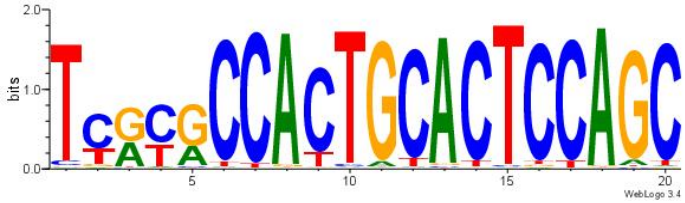

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.12276

Alignment:

```
GGGTGCAGGMGGGCTGAGT
GACATGGAGTCAAAGG---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

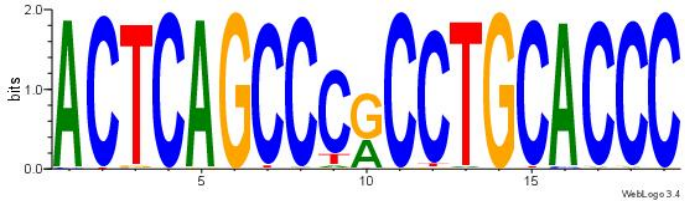

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

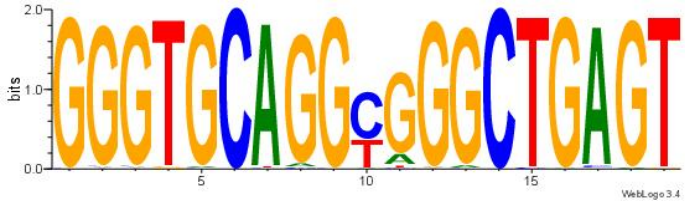

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.123024

Alignment:

```
CAAGCGCCAGCTCATGTC
--CCTTTGACTCCATGTC
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

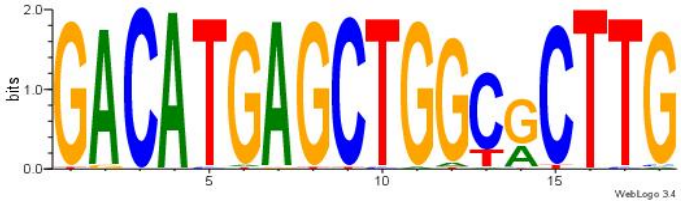

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

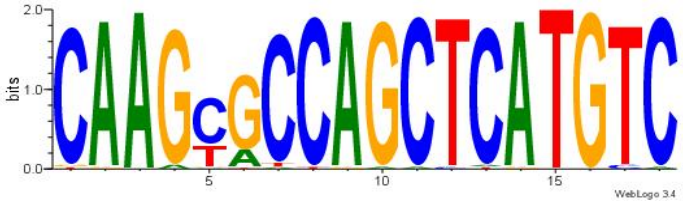

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.123092

Alignment:
TGGATGGATGGATGGAT
GACATGGAGTCAAAGG-

Original motif Consensus sequence: ATCCATCCATCCATCCA

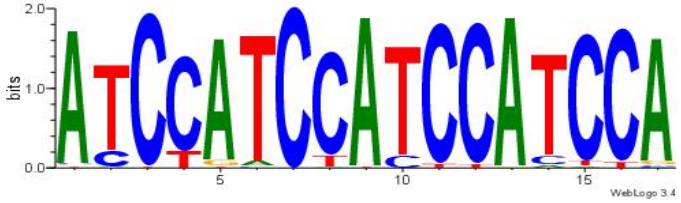

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.123225

Alignment:
CACTTTCCAGACTGGGCA
-CCTTTGACTCCATGTC-

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

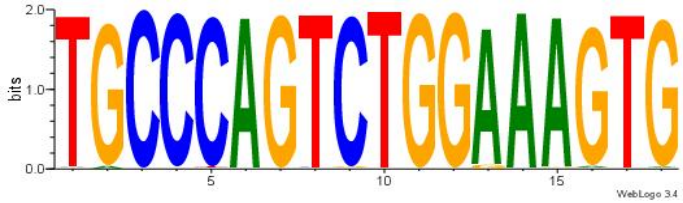

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

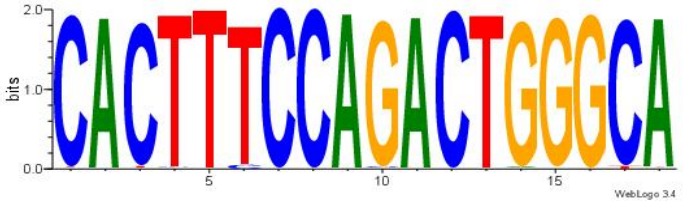

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.123334

Alignment:

```
CCACCACAGCTCAAGGAGGC
-GACATGGAGTCAAAGG---
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

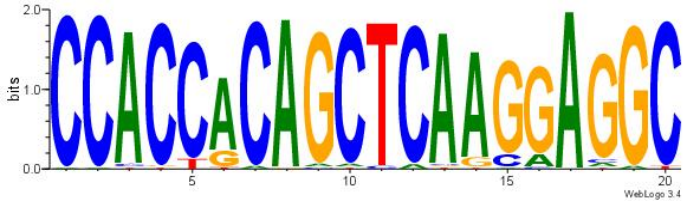

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

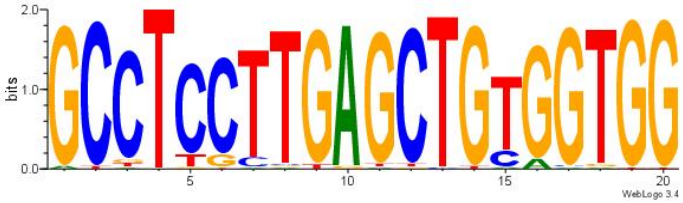

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.123422

Alignment:

```
CMCAGTTCACAATAGGGTT
--CCTTTGACTCCATGTC-
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

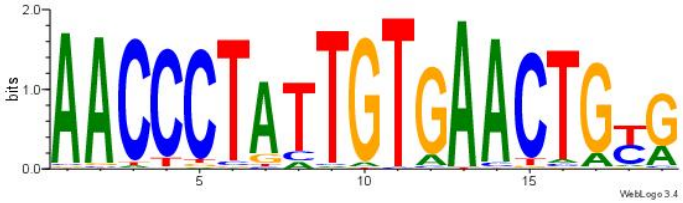

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

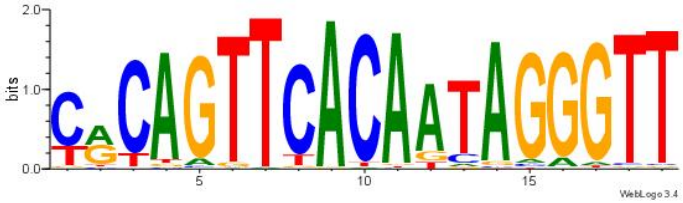

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.123461

Alignment:
GTTGTGAGGATTAAATGAG
-GACATGGAGTCAAAGG--

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

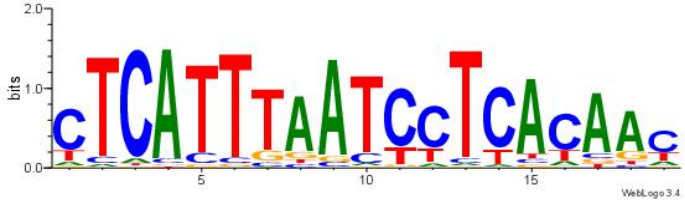

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

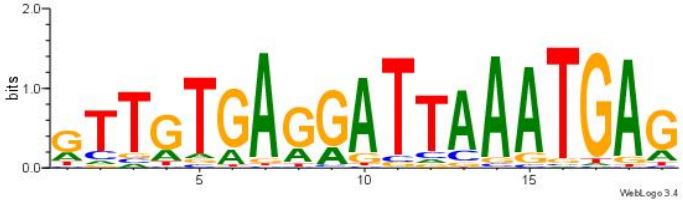

Dataset #: 1 Motif ID: 327 Motif name: Motif 327

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

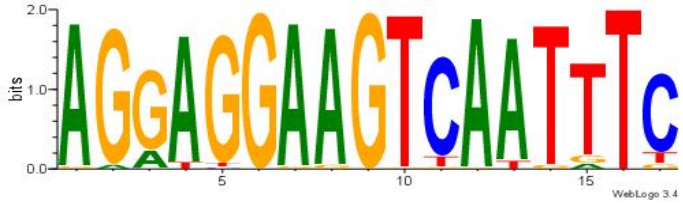

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

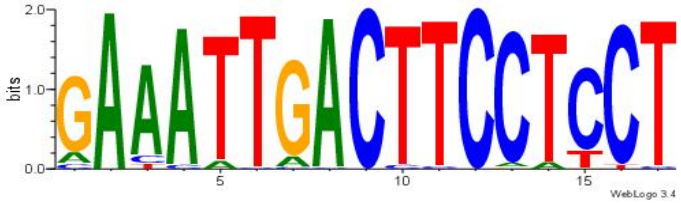

Best Matches for Motif ID 327 (Highest to Lowest)

Dataset #: 1
Motif ID: 85
Motif name: Motif 85

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.087633

Alignment:

```
CTAGACATAAAGGTTCTCCA
GAAATTGACTTCCTCCT---
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

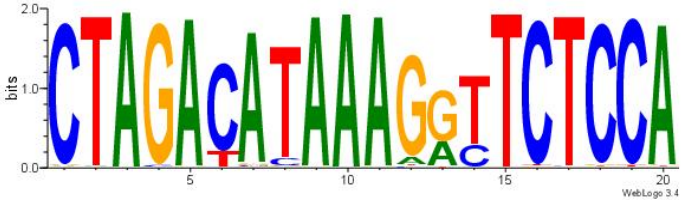

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

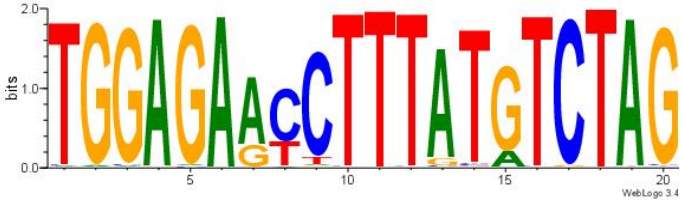

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0921863

Alignment:
KACATTGATTTTGTATC
GAAATTGACTTCCTCCT

Original motif Consensus sequence: GATACAAAATCAATGTR

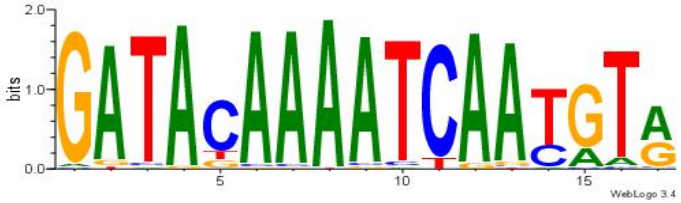

Reverse complement motif Consensus sequence:
KACATTGATTTTGTATC

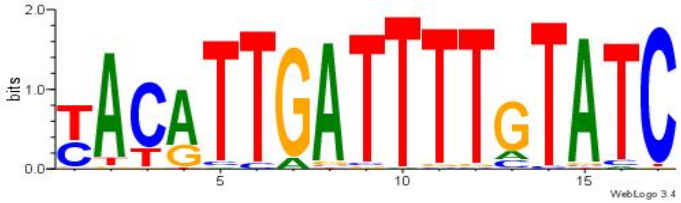

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0926364

Alignment:
TGCTGGAGGTCCACTCCAGA
AGGAGGAAGTCAATTTC---

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

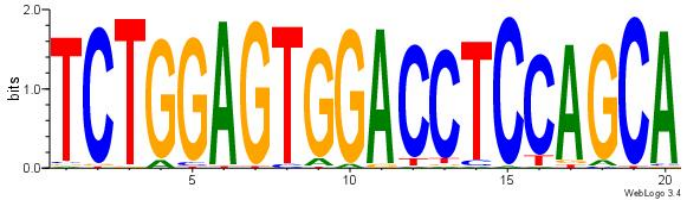

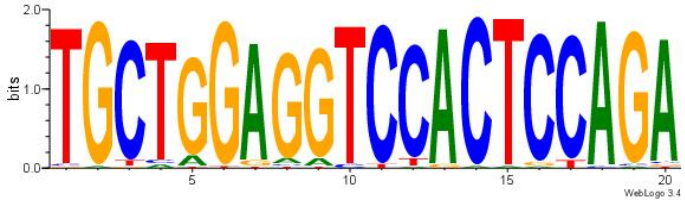

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.094205

Alignment:

```
VMATTTAKTGAGCACCTACT
---GAAATTGACTTCCTCCT
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

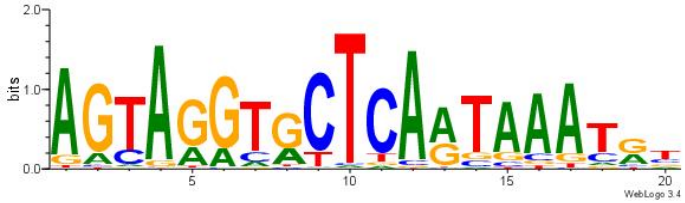

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

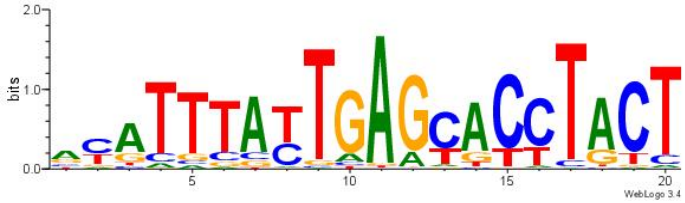

Dataset #:	1

Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.100031

Alignment:

```
TAGATAATAGCTCCAGCTTT
--GAAATTGACTTCCTCCT-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

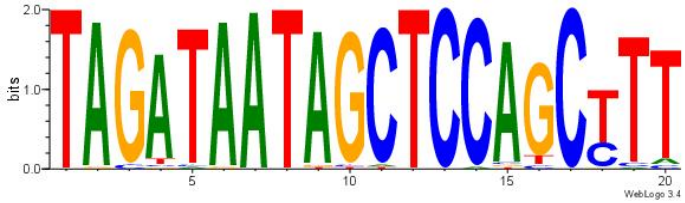

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

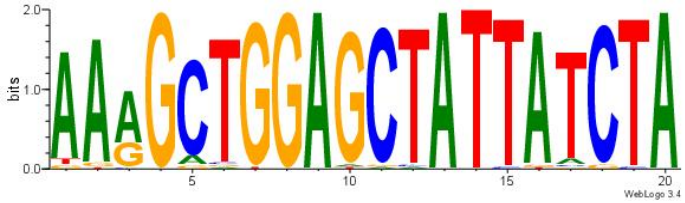

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.101556

Alignment:
GAAAGGGAACTCCCTGACCC
-AGGAGGAAGTCAATTTC--

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

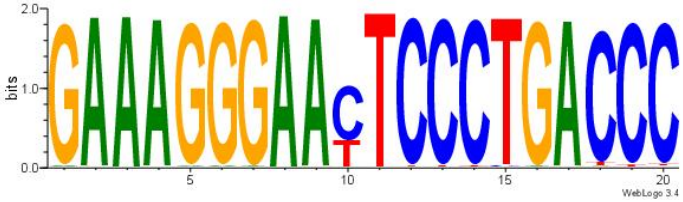

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

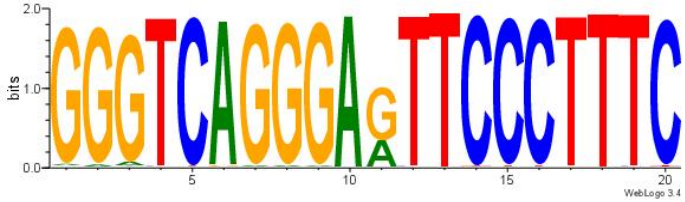

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.102144

Alignment:
AGAAATCGAGCRCAGCGCCG
--GAAATTGACTTCCTCCT-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

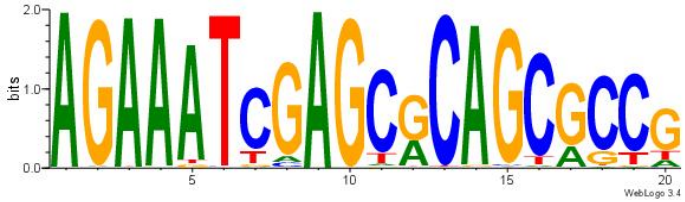

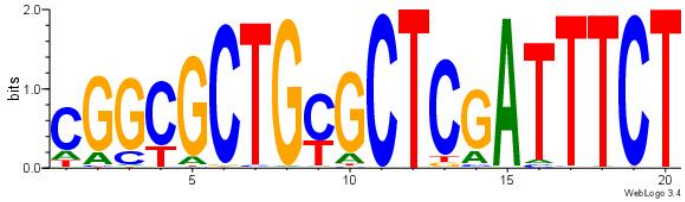

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.102364

Alignment:

```
GACATGAGCTGGCGCTTG
-GAAATTGACTTCCTCCT
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

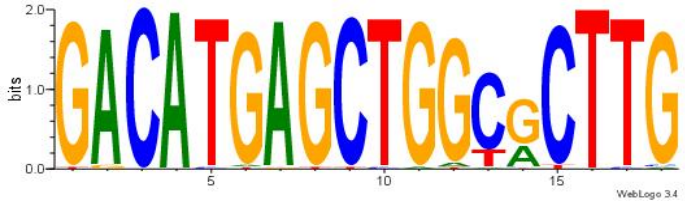

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

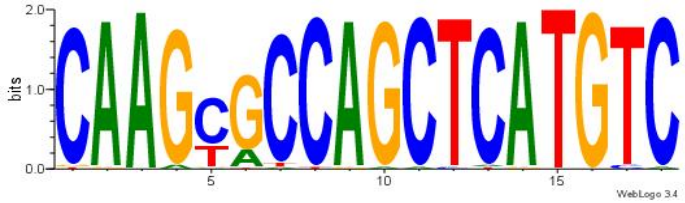

Dataset #: 1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.102373

Alignment:

```
TCAATGGGCTCCCAAATG
GAAATTGACTTCCTCCT-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

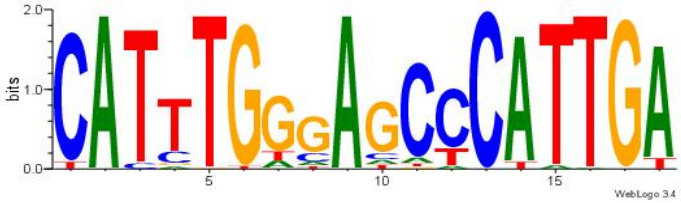

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

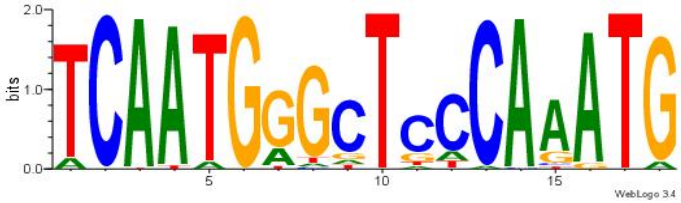

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.103096

Alignment:
GGGAGGGATATATTAGC
AGGAGGAAGTCAATTTC

Original motif Consensus sequence: GGGAGGGATATATTAGC

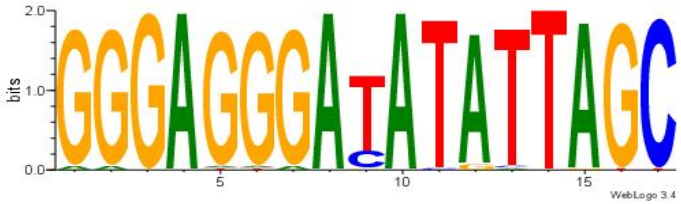

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

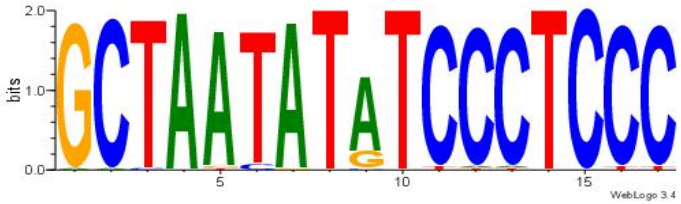

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.105454

Alignment:
CAGGTGGTKTTTGGTTACAT
-AGGAGGAAGTCAATTTC--

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

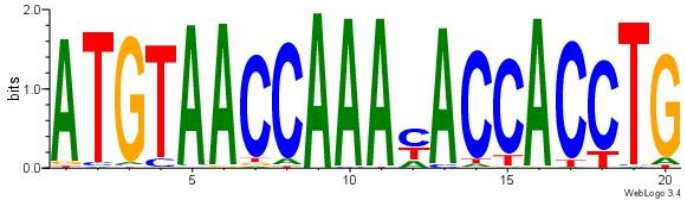

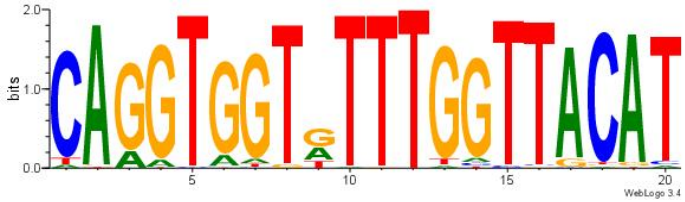

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.105926

Alignment:

```
ACAAGGCAAGTCCCTTCY
GAAATTGACTTCCTCCT-
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

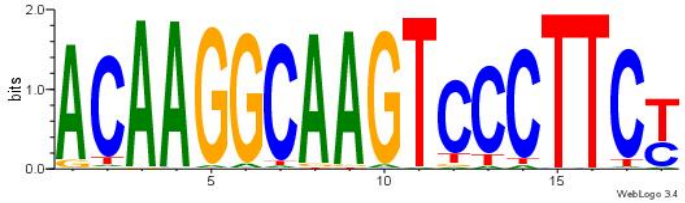

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

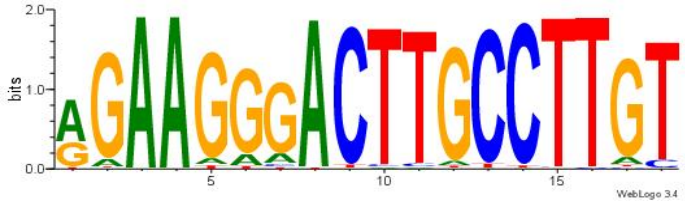

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.106184

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
---AGGAGGAAGTCAATTTC
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

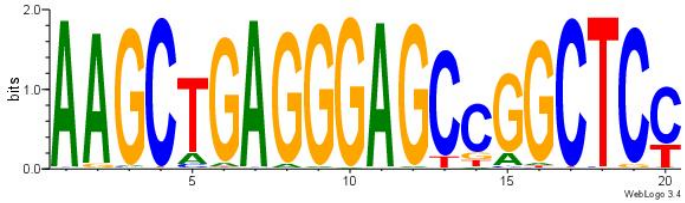

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

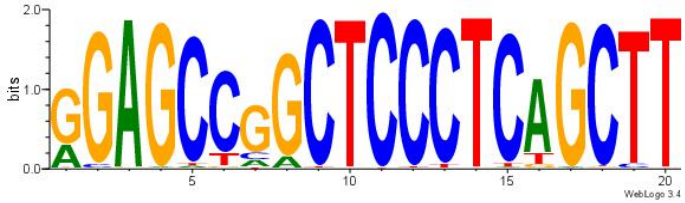

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.107414

Alignment:
ATGTGGAGGTGGAAGACAGT
---AGGAGGAAGTCAATTTC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

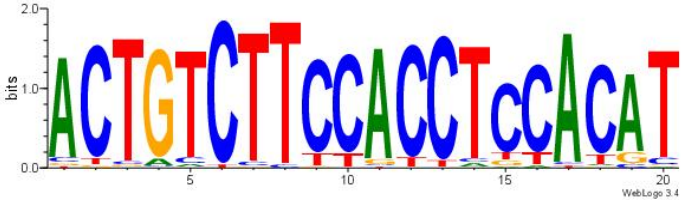

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

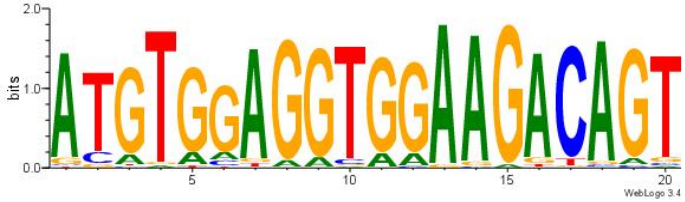

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.108737

Alignment:
TCCAAATGGGAGAAATTGGC
---AGGAGGAAGTCAATTTC

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

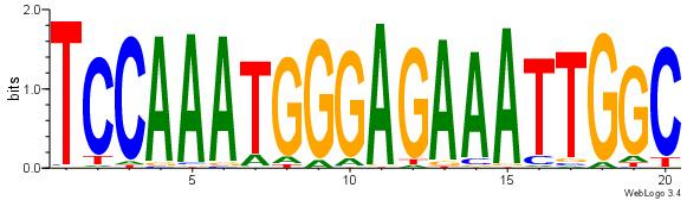

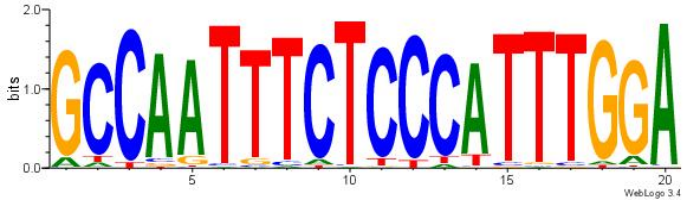

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.109084

Alignment:

```
ATGGCTGAATAKTATTCCAT
--AGGAGGAAGTCAATTTC-
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

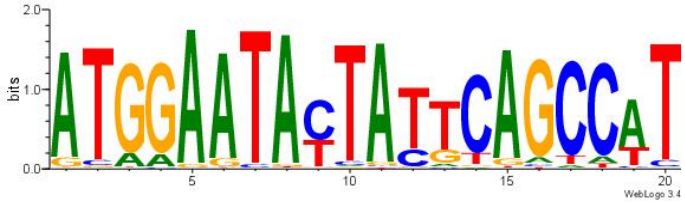

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

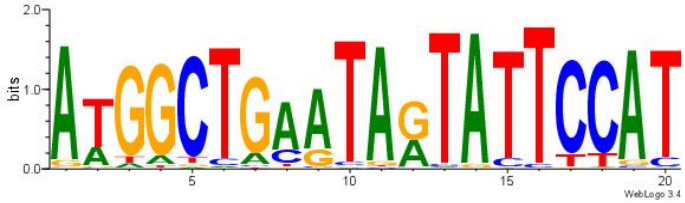

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.109674

Alignment:

```
AGGAACAGCTCCRGTCTAC
AGGAGGAAGTCAATTTC--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

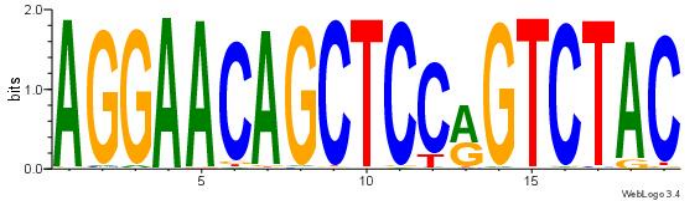

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

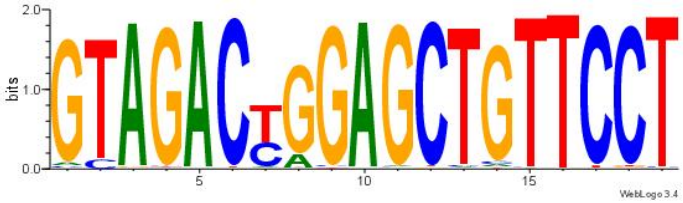

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.109868

Alignment:
CACCAGGAGATTATATCCCR
-AGGAGGAAGTCAATTTC--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

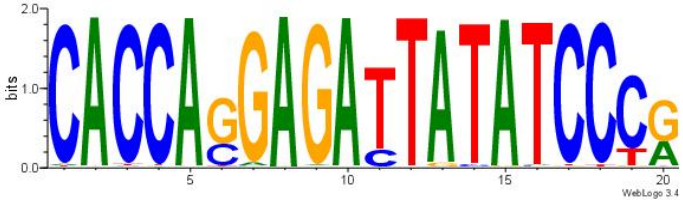

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

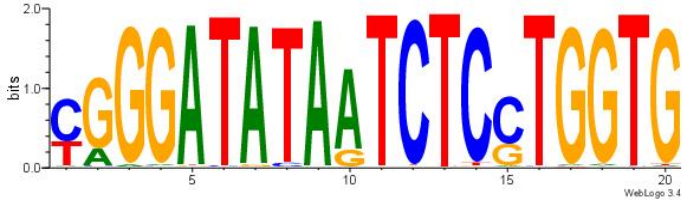

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.110095

Alignment:
AATGAKATCATGTCYTTTGC
AGGAGGAAGTCAATTTC---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

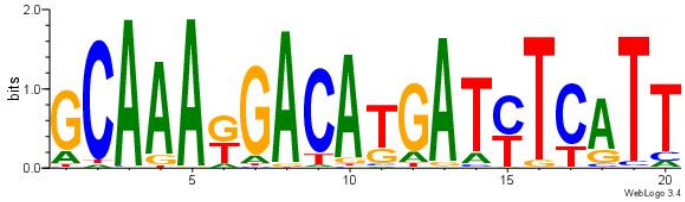

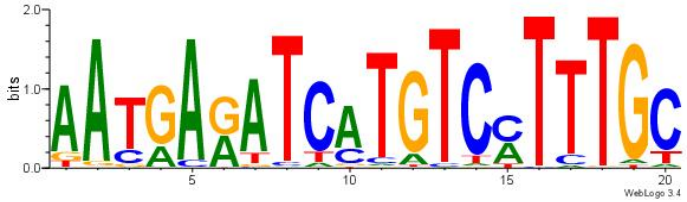

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.111878

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-AGGAGGAAGTCAATTTC--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

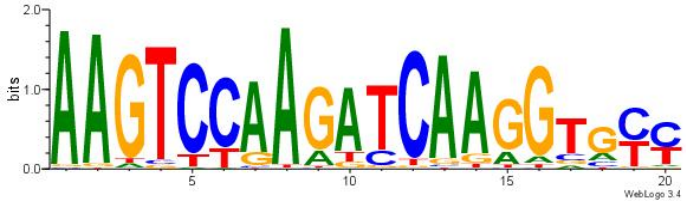

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

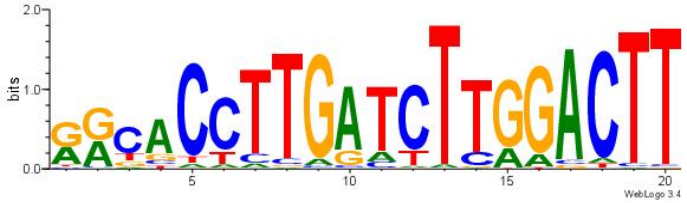

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.111936

Alignment:

```
GCCAGGCAGAGRGKCTCCT
GAAATTGACTTCCTCCT--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

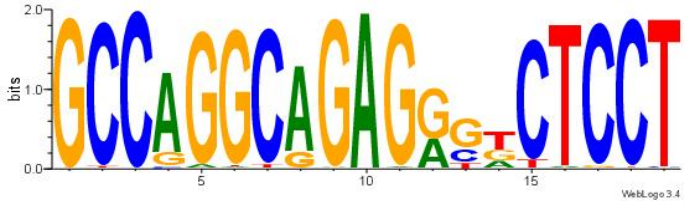

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

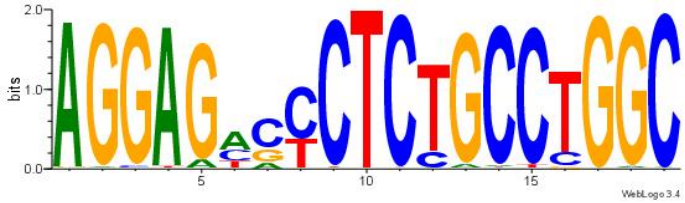

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.112595

Alignment:
CTGACTGGGAGACACCTCCC
--AGGAGGAAGTCAATTTC-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

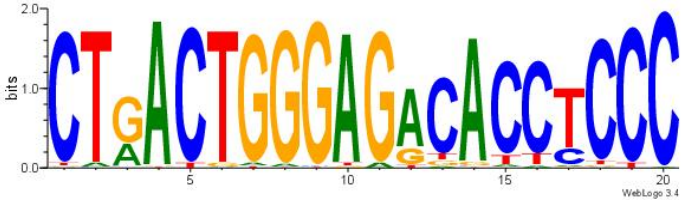

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

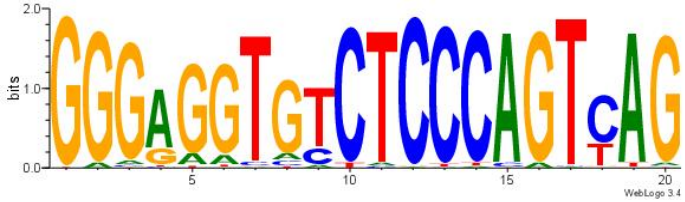

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.112882

Alignment:
AAGAGGTTTAATTGRCTCA
GAAATTGACTTCCTCCT--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

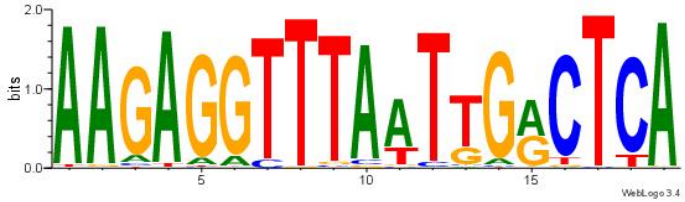

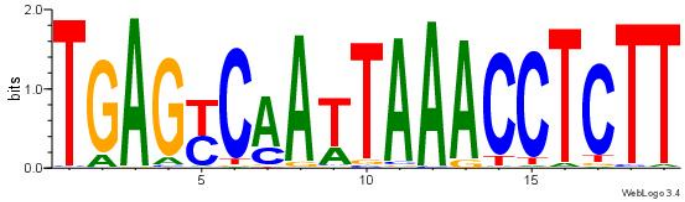

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.113584

Alignment:

```
AAGGAACAAACTCCRGACAC
-GAAATTGACTTCCTCCT--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

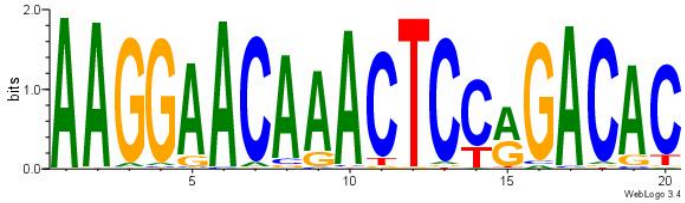

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

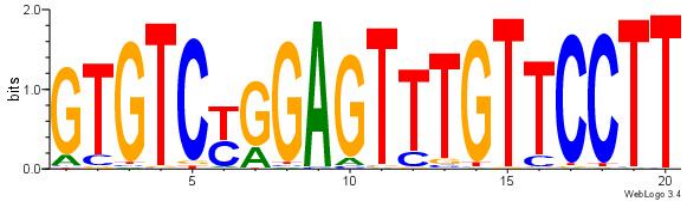

Dataset #: 1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.113587

Alignment:

```
GAAACTGCTTTGTGATGTGT
GAAATTGACTTCCTCCT---
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

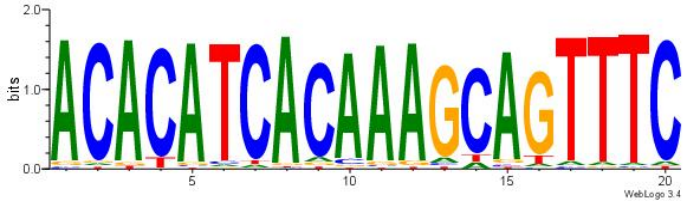

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

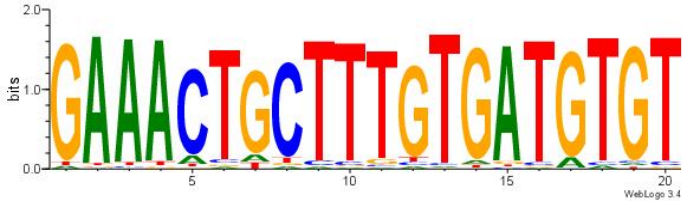

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.116068

Alignment:
GGTTTTCCATTCCTGAG
GAAATTGACTTCCTCCT

Original motif Consensus sequence: CTCAGGAATGGAAAACC

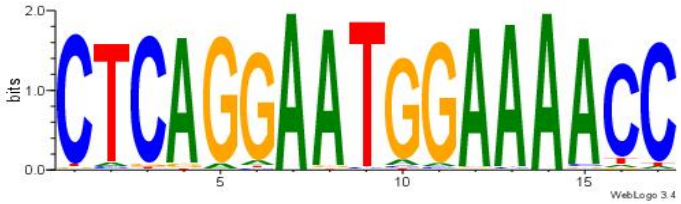

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

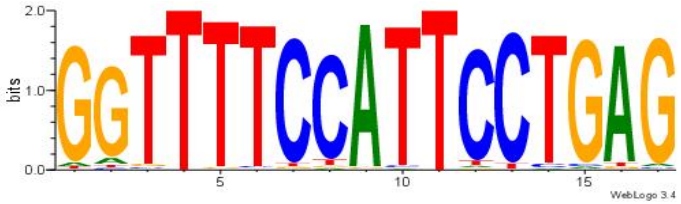

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.117655

Alignment:
GGTGGGGGGGTCAGCCCCC
-AGGAGGAAGTCAATTTC-

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

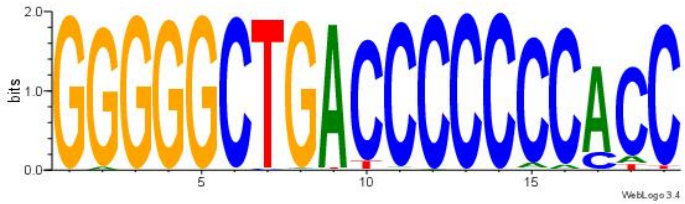

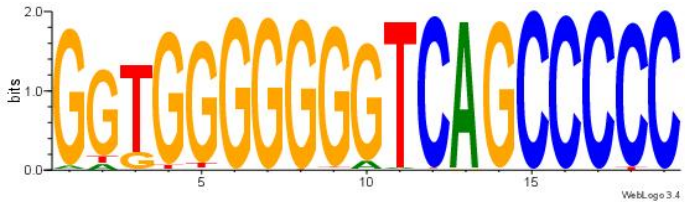

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.117728

Alignment:

```
GTTAACTGTAAAACAGCCT
GAAATTGACTTCCTCCT--
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

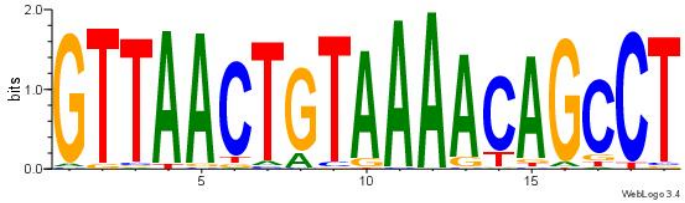

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

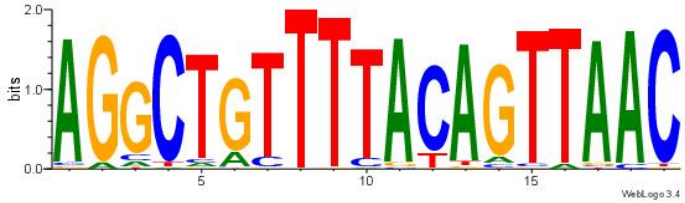

Dataset #:	1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.118443

Alignment:

```
CAAGTTGACACATAAAATTA
GAAATTGACTTCCTCCT---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

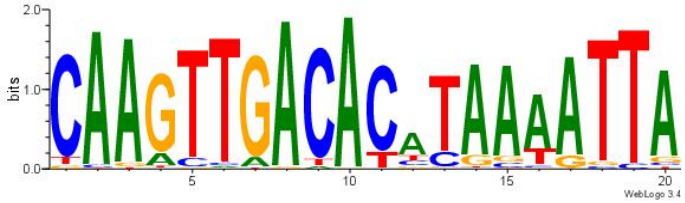

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

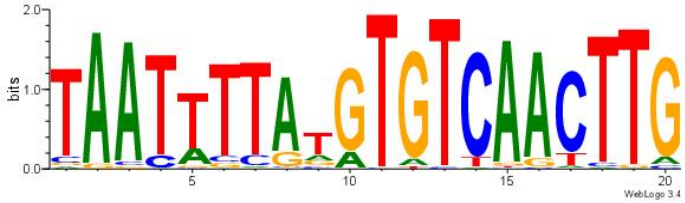

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.118458

Alignment:
CTCCAGKTMCATCCATGTTG
-GAAATTGACTTCCTCCT--

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

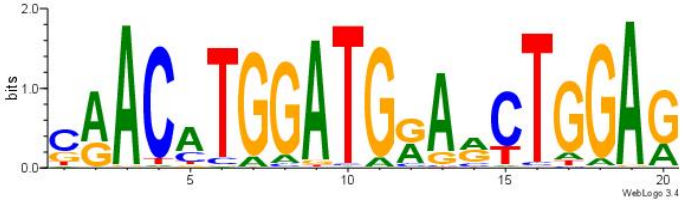

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

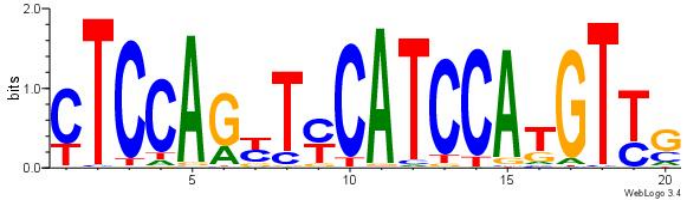

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.118842

Alignment:
CTCAGTGTTAATCTCCTGTC
---GAAATTGACTTCCTCCT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

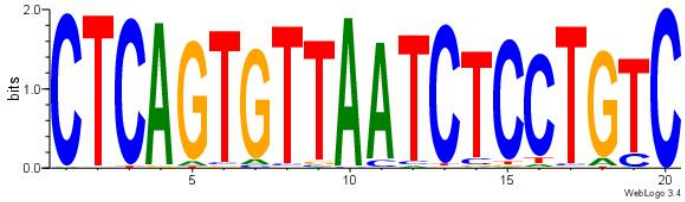

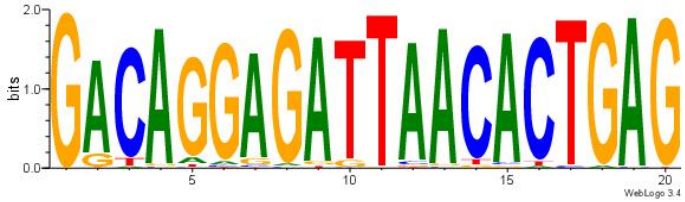

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.119144

Alignment:

```
GGGATTGTAAATACACCAAT
-GAAATTGACTTCCTCCT--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

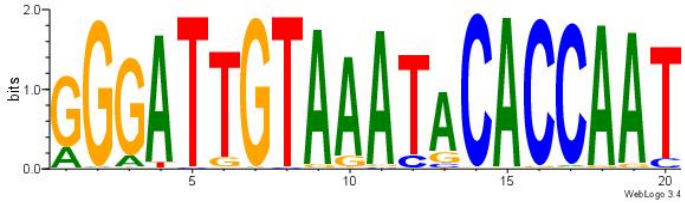

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.119309

Alignment:

```
GGCAATGCCTCGCCCTGCTT
--GAAATTGACTTCCTCCT-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

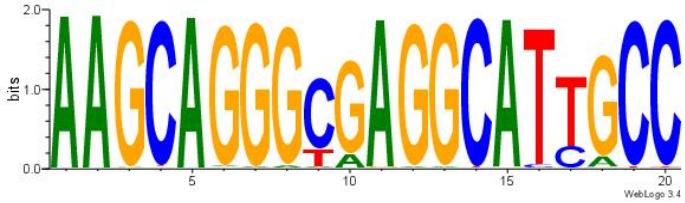

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

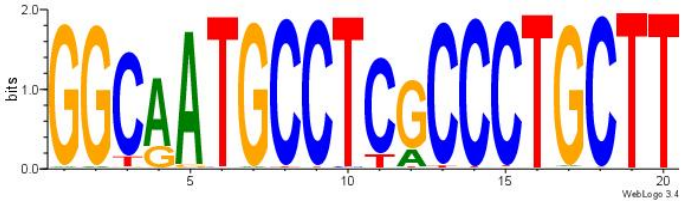

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.119388

Alignment:
GGTGGAGCTGCCTGCCAGTC
---GAAATTGACTTCCTCCT

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

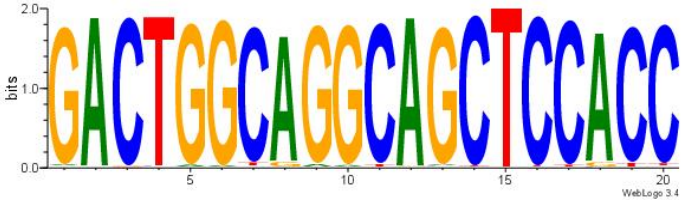

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

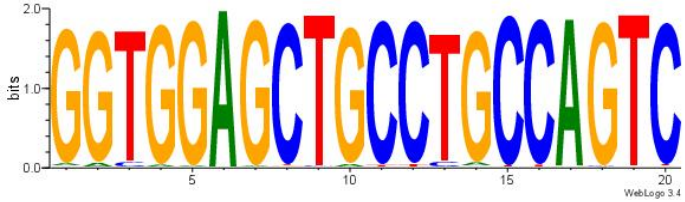

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.11975

Alignment:
CTGAGGACCTGAGGTCRTA
AGGAGGAAGTCAATTTC--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

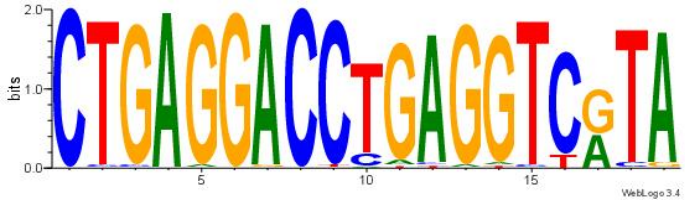

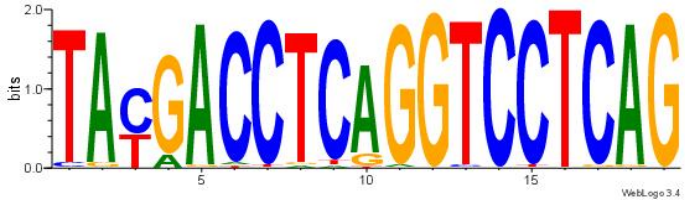

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.120023

Alignment:

```
HAGTGGKATTGCTGGATCAT
--AGGAGGAAGTCAATTTC-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

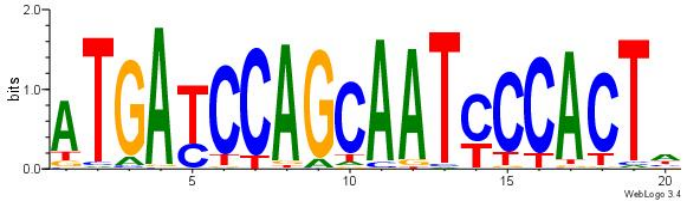

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

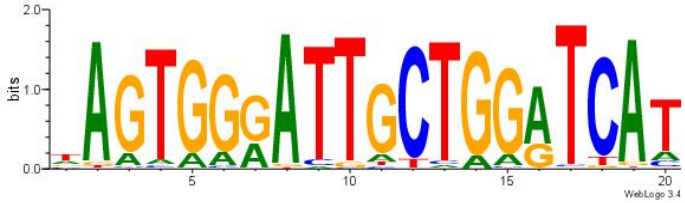

Dataset #:	1

Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.120078

Alignment:

KGGGCDGAGGGGCTCCT

GAAATTGACTTCCTCCT

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

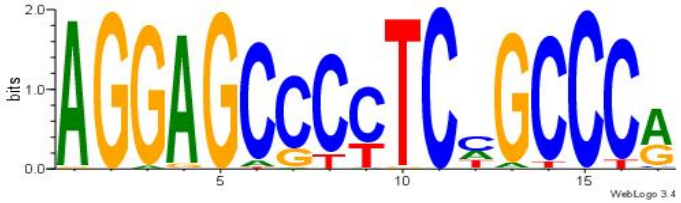

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.12008

Alignment:
AACAACASACACTGGGGCCT
---GAAATTGACTTCCTCCT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

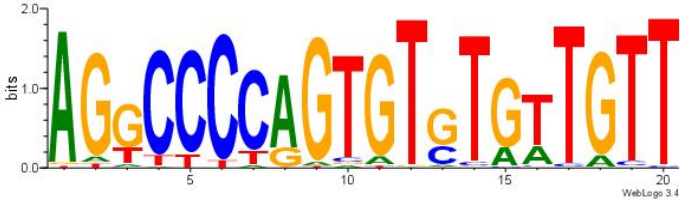

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

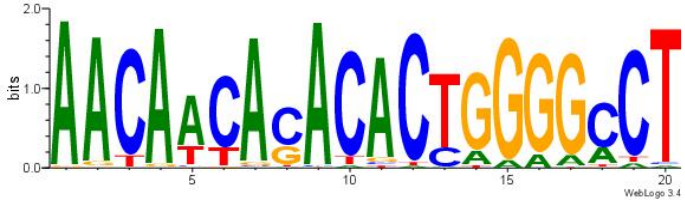

Dataset #: 1
Motif ID: 304
Motif name: Motif 304
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.121143

Alignment:
AGCAGYTTGGAAACACT
AGGAGGAAGTCAATTTC

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

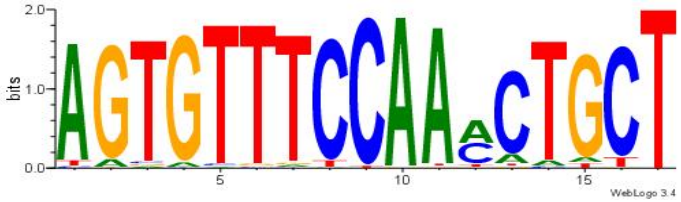

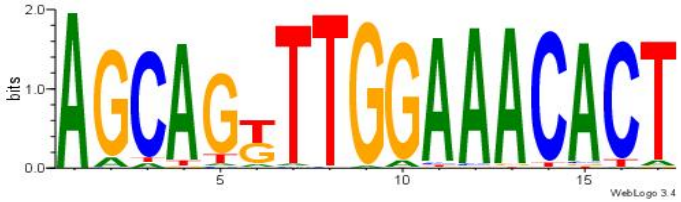

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.121314

Alignment:

```
TTCAMTCATGATTTGGCTCT
---GAAATTGACTTCCTCCT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

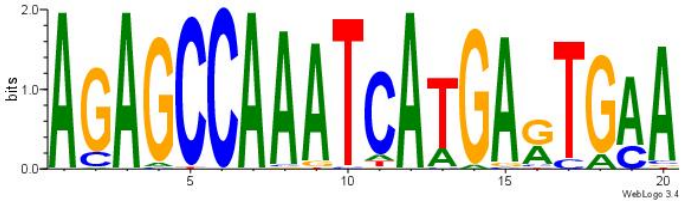

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

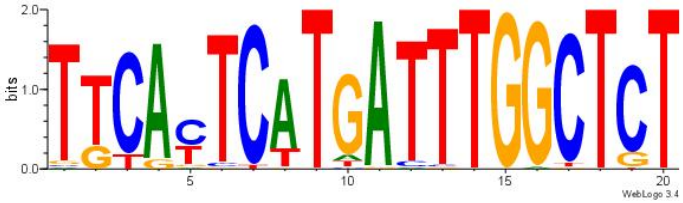

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.121738

Alignment:

```
AAAATGTGGTAYATAYAYAC
AGGAGGAAGTCAATTTC---
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

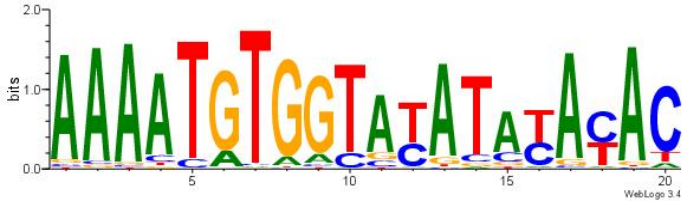

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

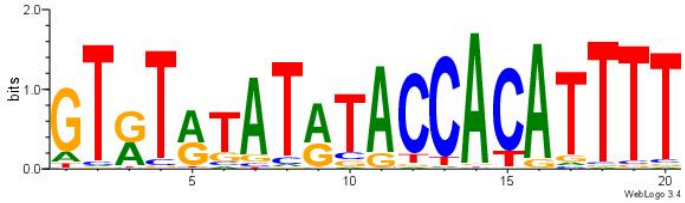

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.123571

Alignment:
ACCGAGMKMGCAGCTTCGGG
---AGGAGGAAGTCAATTTC

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

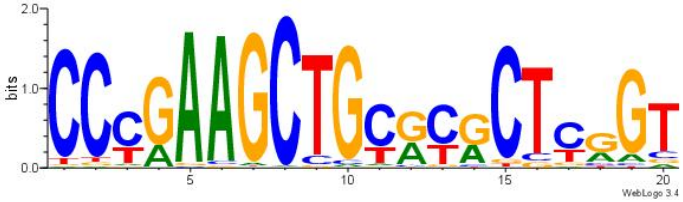

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

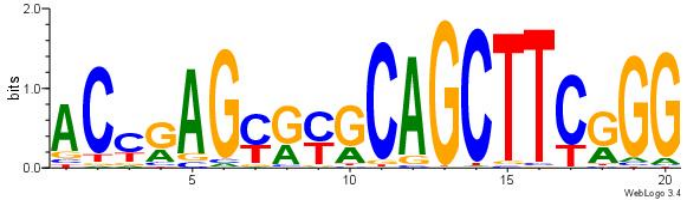

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.12359

Alignment:
CAGTCTGTGTCTTTTAATT
--GAAATTGACTTCCTCCT

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

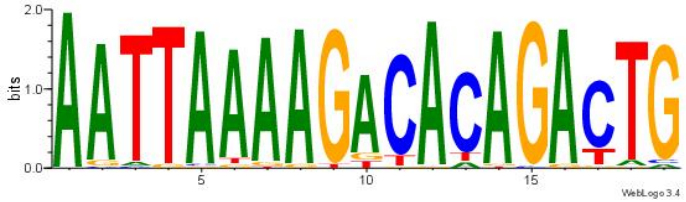

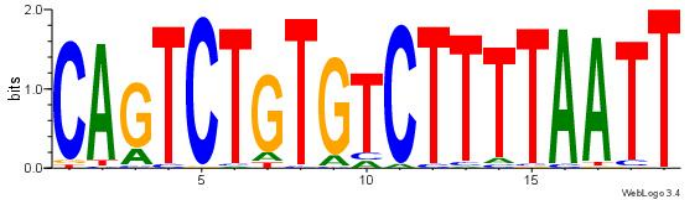

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.1246

Alignment:

```
AAAMAMMKMATGTTCTCACT
---GAAATTGACTTCCTCCT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

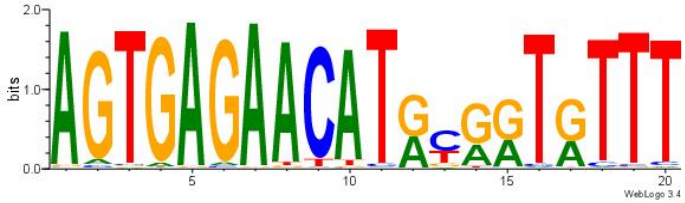

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

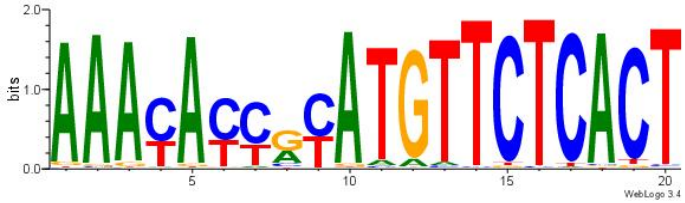

Dataset #: 1

Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.124953

Alignment:

```
ACTTTGGACTGTGGACTTTT
GAAATTGACTTCCTCCT---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

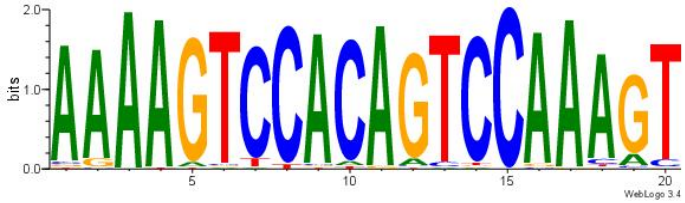

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

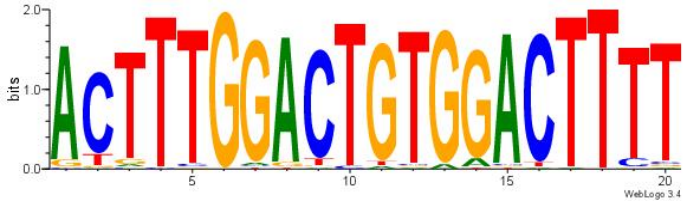

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.125112

Alignment:
AAATTAGGCCAATTAATAAC
---AGGAGGAAGTCAATTTC

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

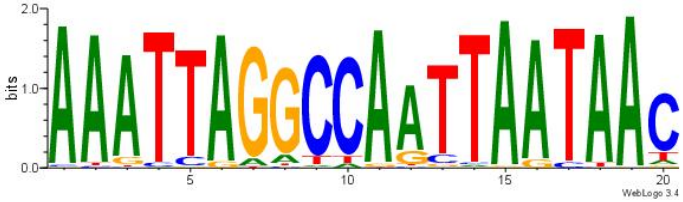

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.125633

Alignment:
CAAASCKGTCATAGGCCAT
-GAAATTGACTTCCTCCT-

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

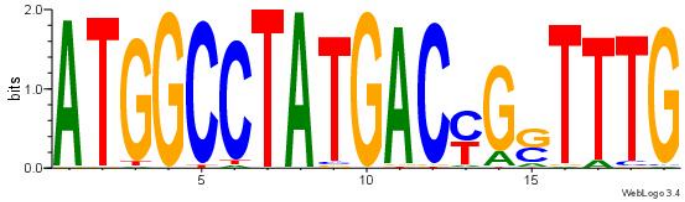

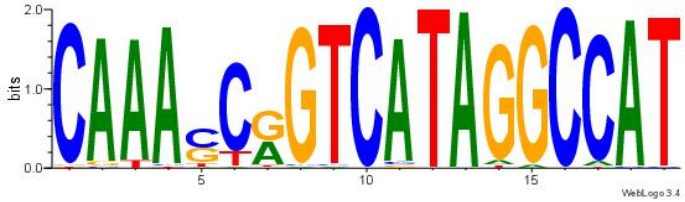

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.126452

Alignment:

```
GTTGTGAGGATTAAATGAG
AGGAGGAAGTCAATTTC--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

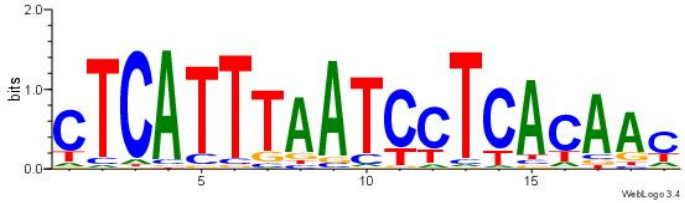

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

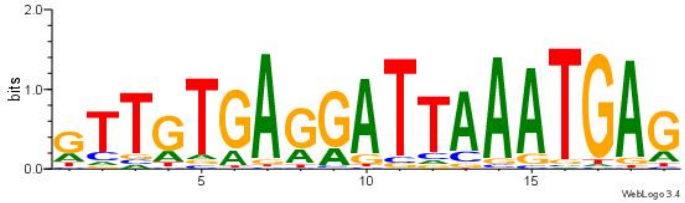

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.126559

Alignment:

```
AGCCYCTGGYAACCAYYAWT
--GAAATTGACTTCCTCCT-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

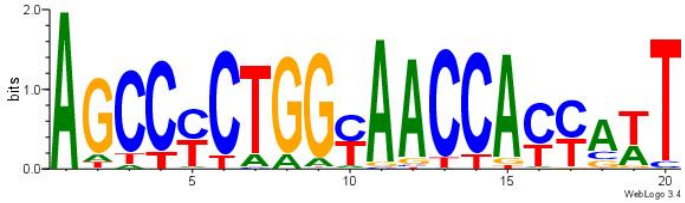

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

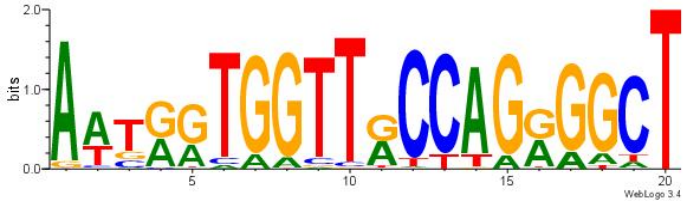

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.126593

Alignment:
AAGTCTCCCAATTACAACT
--GAAATTGACTTCCTCCT

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

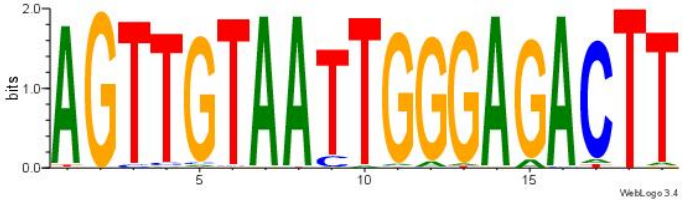

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

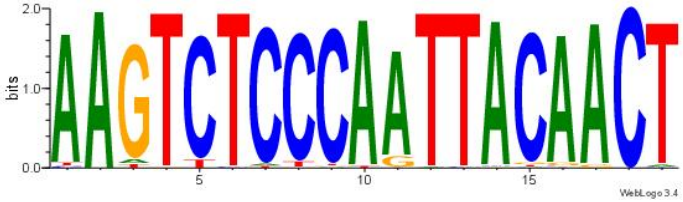

Dataset #: 1 Motif ID: 328 Motif name: Motif 328

Original motif Consensus sequence: GATACAAAATCAATGTR

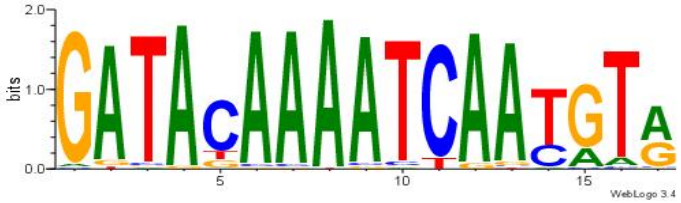

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

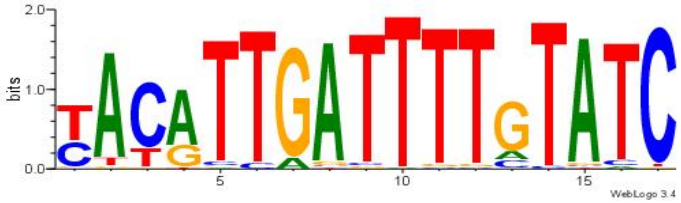

Best Matches for Motif ID 328 (Highest to Lowest)

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0460385

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

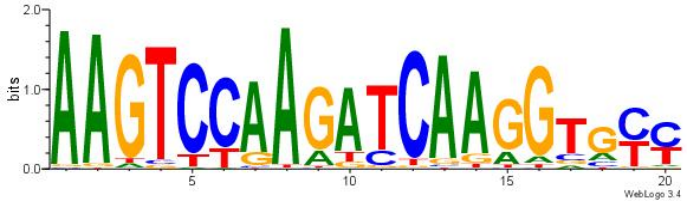

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

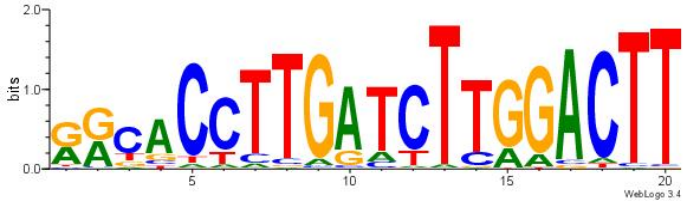

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0587823

Alignment:

CACCAGGAGATTATATCCCR
---KACATTGATTTTGTATC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

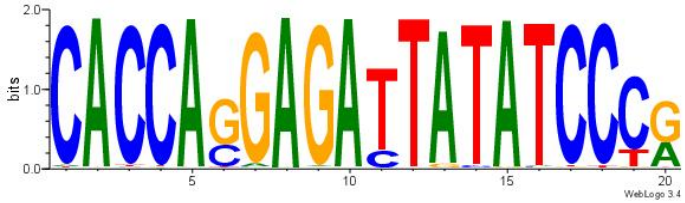

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

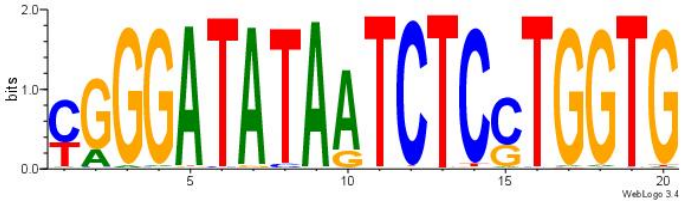

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0635566

Alignment:
GAAACTGCTTTGTGATGTGT
KACATTGATTTTGTATC---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

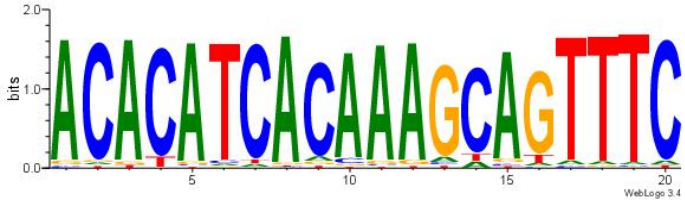

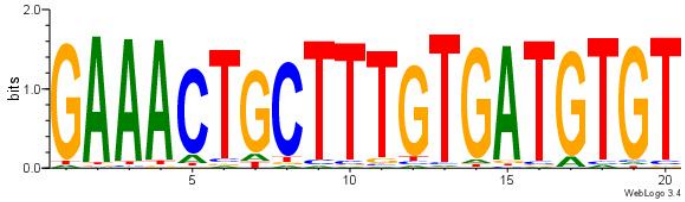

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0636486

Alignment:

```
GAAHCAACCKAAKTGTCCAT
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

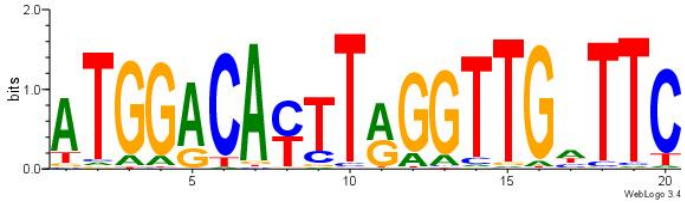

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

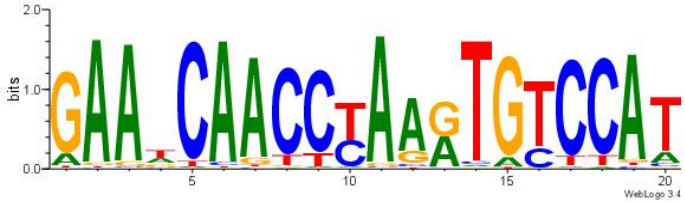

Dataset #:	1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0643479

Alignment:

GAAATTGACTTCCTCCT

KACATTGATTTTGTATC

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

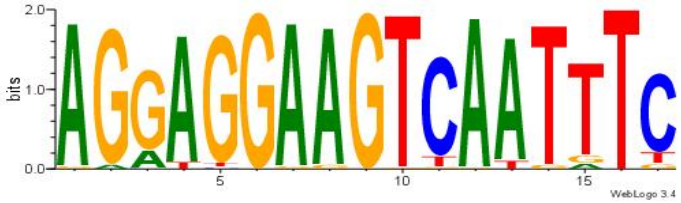

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

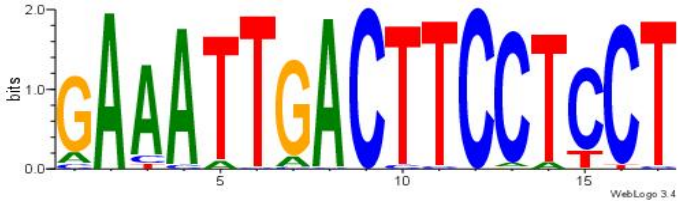

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.0652979

Alignment:
GTGTCKGGAGTTTGTTCCTT
-KACATTGATTTTGTATC--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

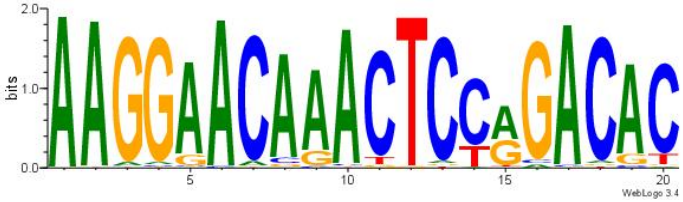

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

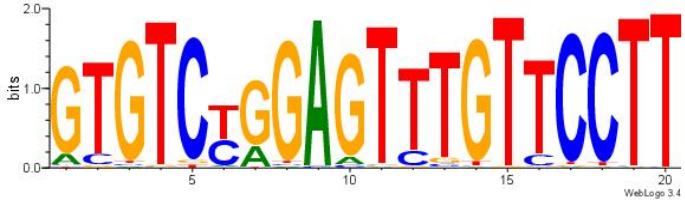

Dataset #: 1
Motif ID: 290
Motif name: Motif 290
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0655394

Alignment:
TGATACCCAGGCAAACAG
-GATACAAAATCAATGTR

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

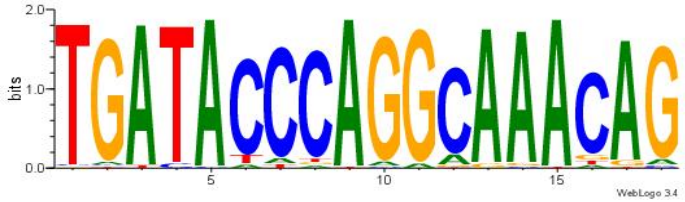

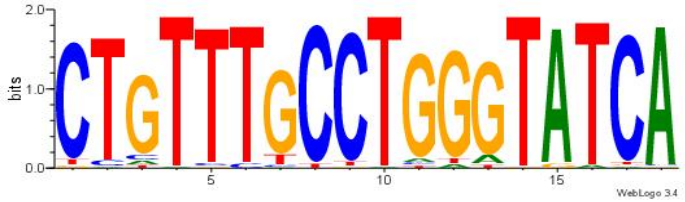

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0727537

Alignment:

```
AAAGCTGGAGCTATTATCTA
-KACATTGATTTTGTATC--
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

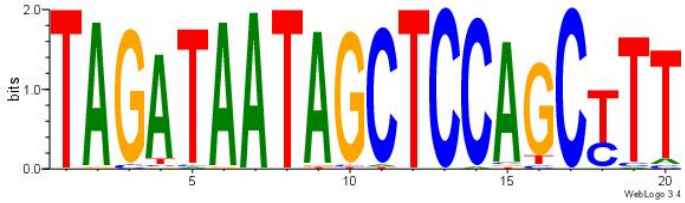

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

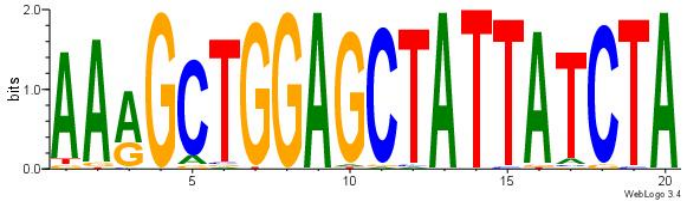

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0753476

Alignment:

```
ATTGGTGTATTTACAATCCC
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

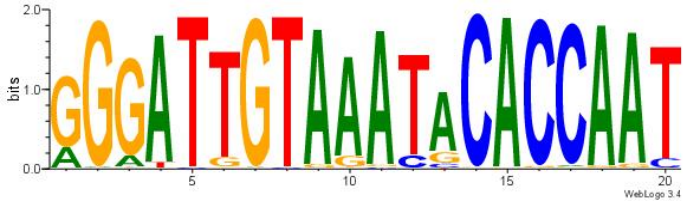

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.0764205

Alignment:
CAGTCTGTGTCTTTTAATT
--KACATTGATTTTGTATC

Original motif Consensus sequence: AATTAAAAGACACAGACTG

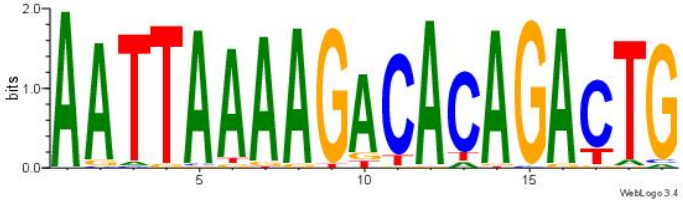

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

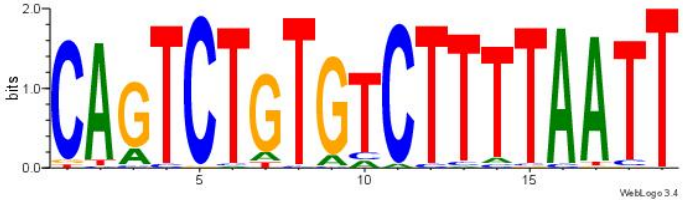

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.076981

Alignment:
CTCAGTGTTAATCTCCTGTC
KACATTGATTTTGTATC---

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

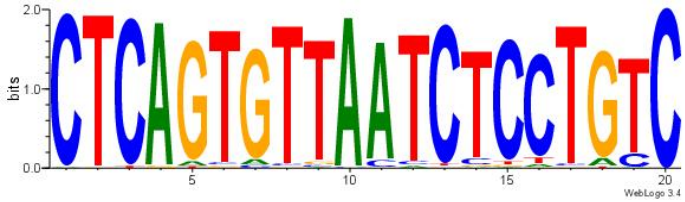

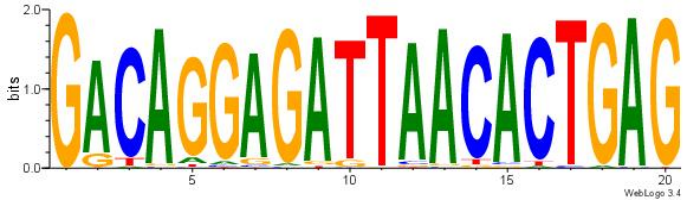

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0772317

Alignment:

```
GAATACCTCCTGAAGGACCT
--GATACAAAATCAATGTR-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

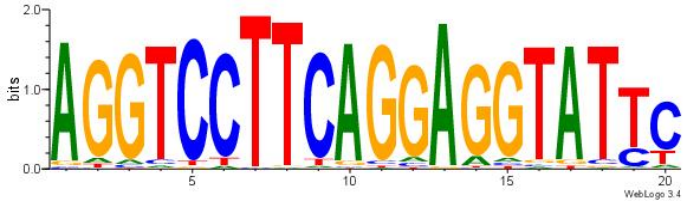

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

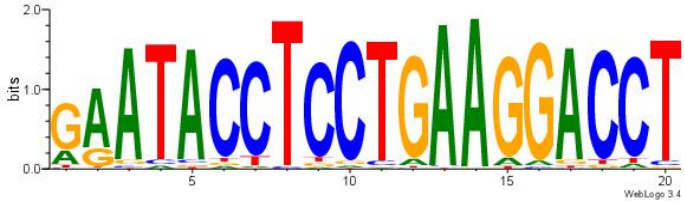

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0774296

Alignment:

```
ATGTAACCAAAYACCACCTG
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

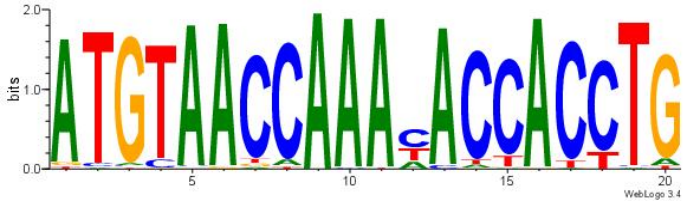

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

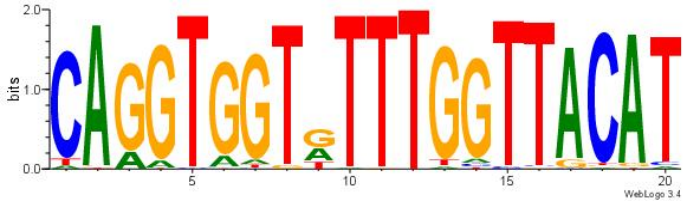

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.0781428

Alignment:
AGAGCCAAATCATGARTGAA
---GATACAAAATCAATGTR

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

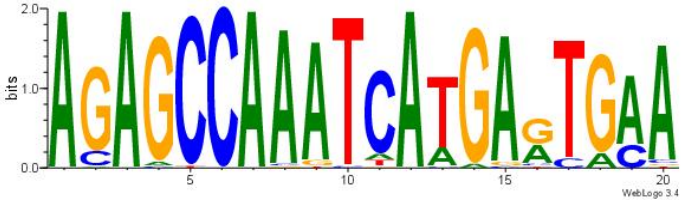

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

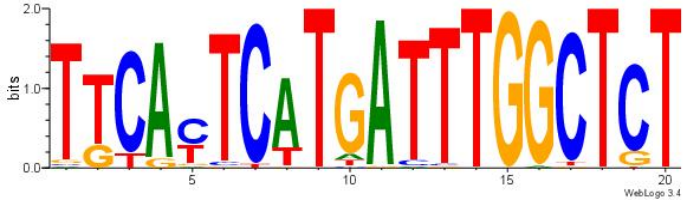

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0786855

Alignment:
GTCTCWAMAAAAAAWAMAAA
---GATACAAAATCAATGTR

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

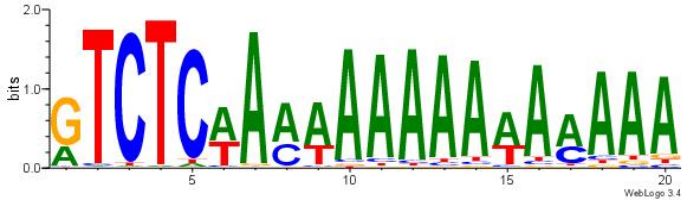

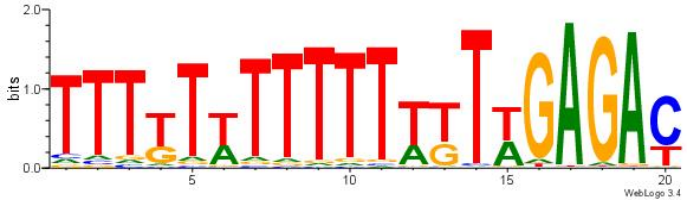

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0786856

Alignment:

```
TAATTTTATGTGTCAACTTG
KACATTGATTTTGTATC---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

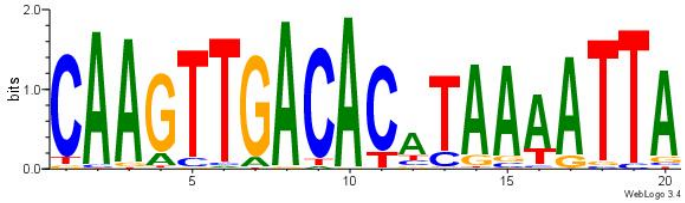

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

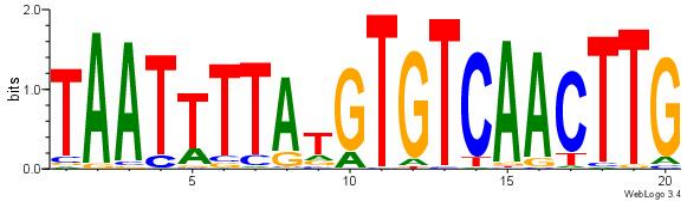

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0817549

Alignment:

```
AGTAGGTGCTCARTAAATRB
GATACAAAATCAATGTR---
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

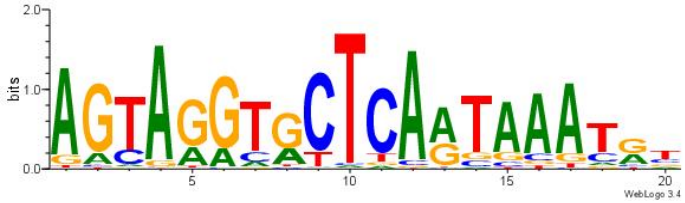

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

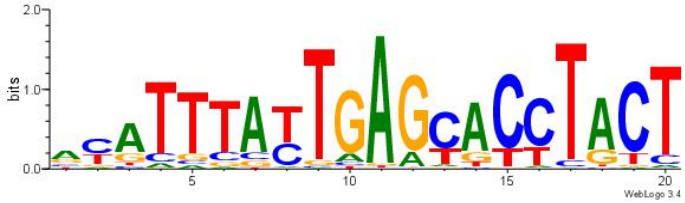

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.0827013

Alignment:
TYTGTCMTTTTGTGACTGGC
---KACATTGATTTTGTATC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

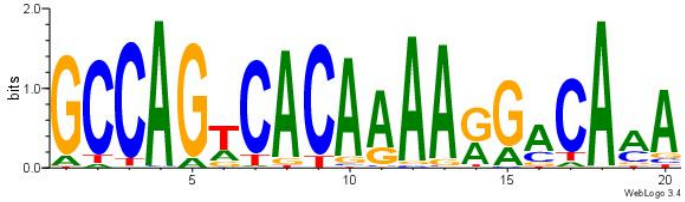

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

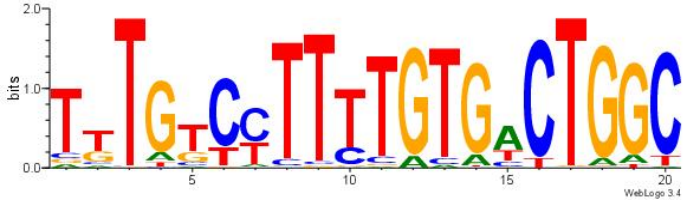

Dataset #: 1
Motif ID: 66
Motif name: Motif 66
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.0836869

Alignment:
TGTGTGTGTGTKTGTGTGT
-KACATTGATTTTGTATC-

Original motif Consensus sequence: ACACACAYACACACACACA

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

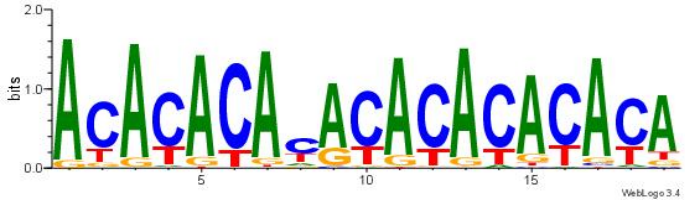

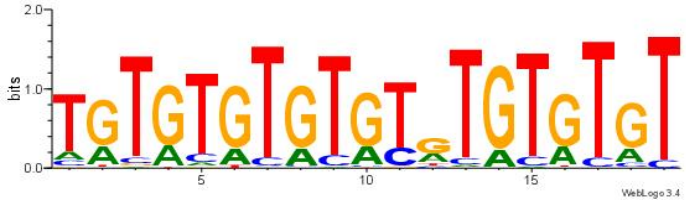

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0854292

Alignment:

```
GCAAAKGACATGATYTCATT
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

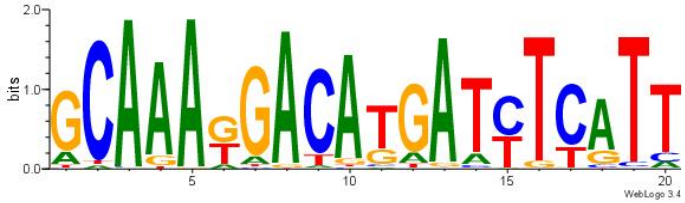

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

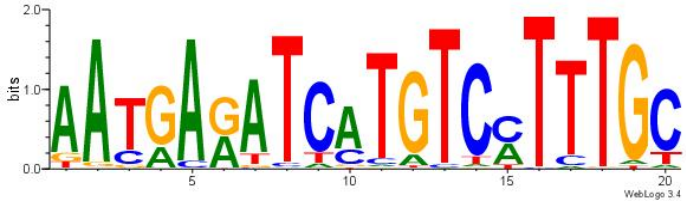

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0856334

Alignment:

```
AGTGACCCGATTTTCCAGGT
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

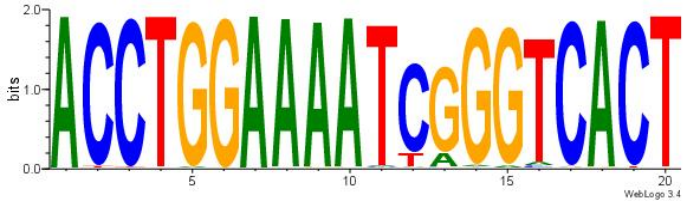

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

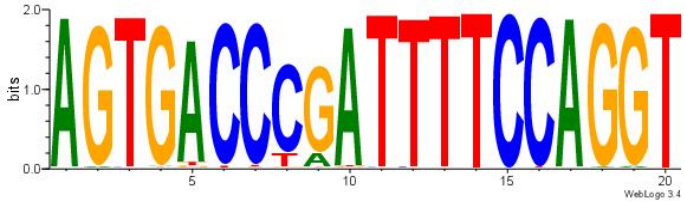

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.0858425

Alignment:
GGGAGGGATATATTAGC
KACATTGATTTTGTATC

Original motif Consensus sequence: GGGAGGGATATATTAGC

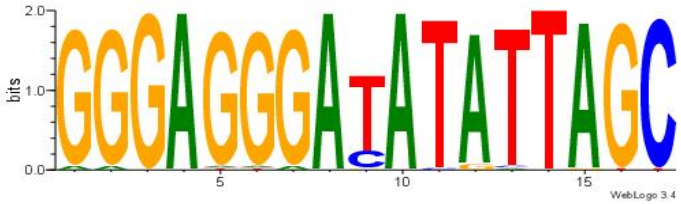

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

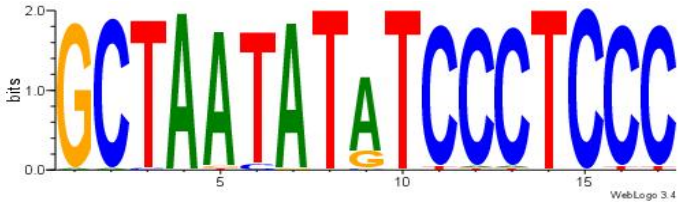

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.0858497

Alignment:
CTAGACATAAAGGTTCTCCA
---GATACAAAATCAATGTR

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

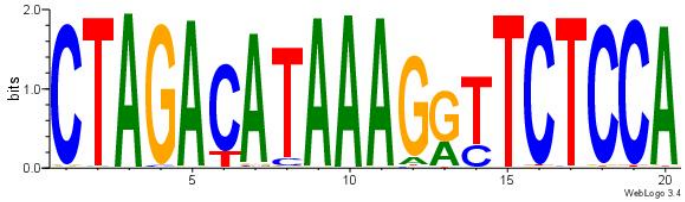

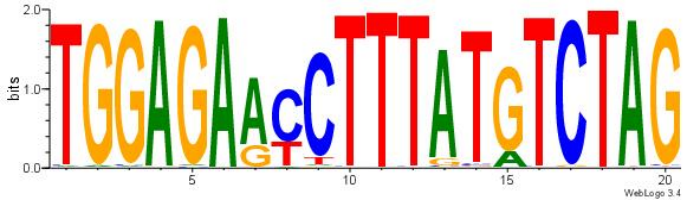

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0875595

Alignment:

```
CAACATGGATGRARCTGGAG
--KACATTGATTTTGTATC-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

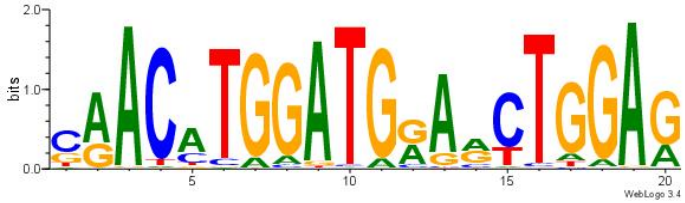

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

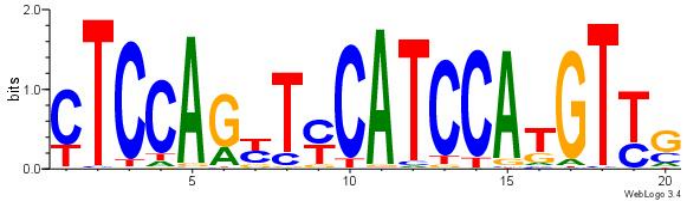

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0876868

Alignment:

```
AAGTTCTKGGKTACATGTGC
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

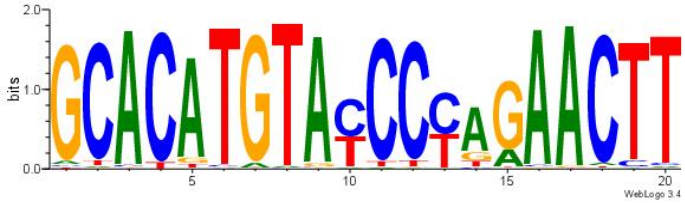

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

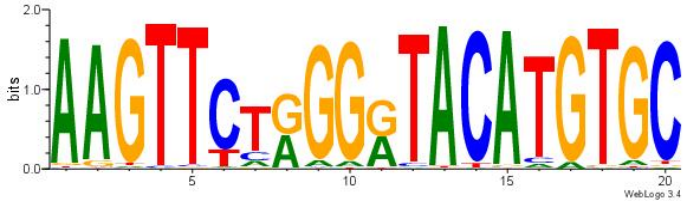

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.0878904

Alignment:
CATTAGATTCTCATAGGA
-GATACAAAATCAATGTR

Original motif Consensus sequence: CATTAGATTCTCATAGGA

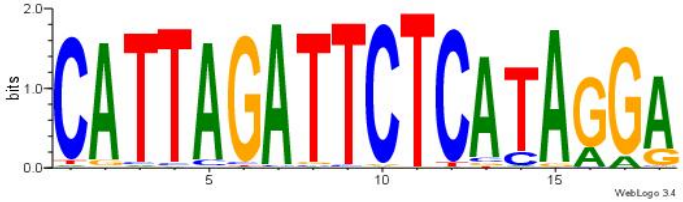

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

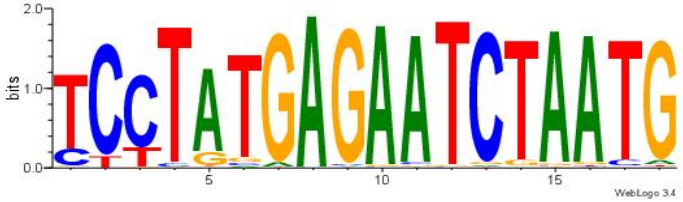

Dataset #: 1
Motif ID: 109
Motif name: Motif 109
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.0879037

Alignment:
GAGAGAGAGAGAGAGAGAGA
GATACAAAATCAATGTR---

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

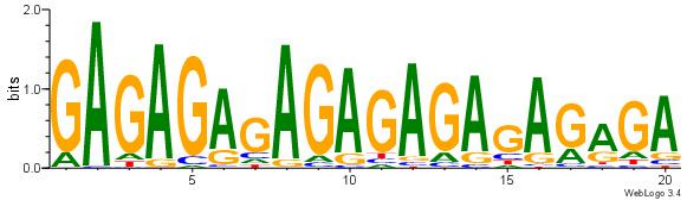

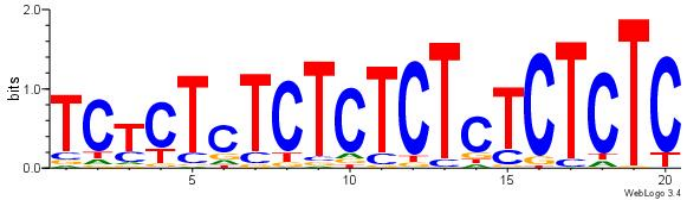

Dataset #: 1
Motif ID: 63
Motif name: Motif 63
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.0880864

Alignment:
AAAMAMMKMATGTTCTCACT
--KACATTGATTTTGTATC-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

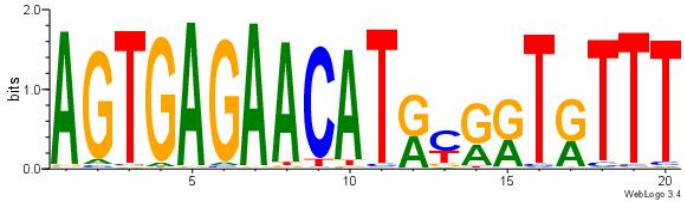

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

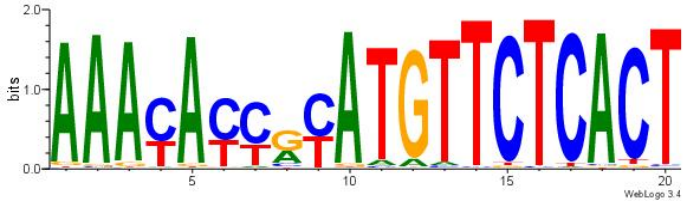

Dataset #: 1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0881708

Alignment:

```
GTTGTGAGGATTAAATGAG
GATACAAAATCAATGTR--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

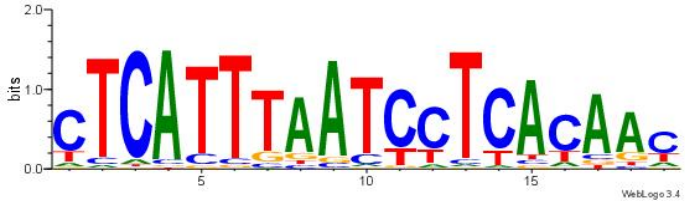

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

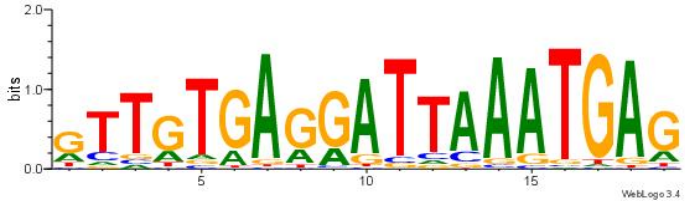

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

Similarity score: 0.0886777

Alignment:
CCCATGCAAGTCYRAAATCC
--GATACAAAATCAATGTR-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

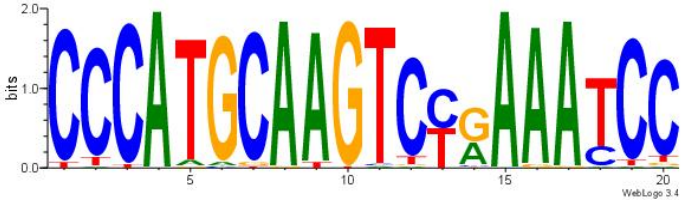

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

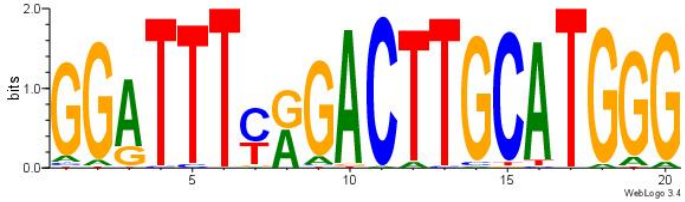

Dataset #: 1
Motif ID: 137
Motif name: Motif 137
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0890404

Alignment:
AGGTTTGTTACATAGGTAWA
KACATTGATTTTGTATC---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

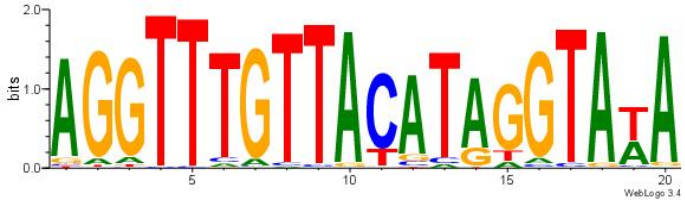

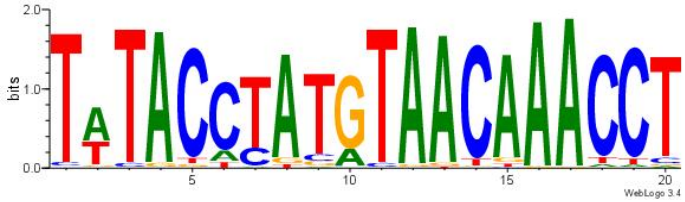

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0891319

Alignment:

```
AGGAACAGCTCCRGTCTAC
-GATACAAAATCAATGTR-
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

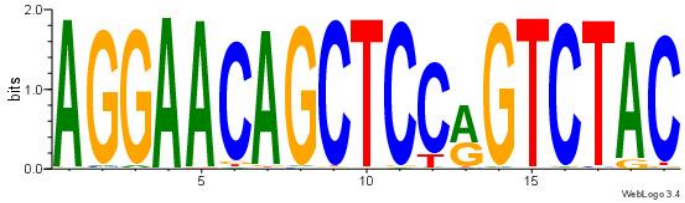

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

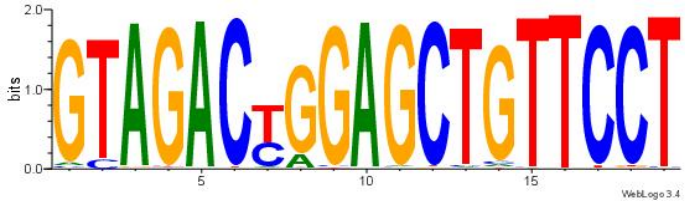

Dataset #: 1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.089751

Alignment:

```
TAAAAGACTACAWATTGGGT
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

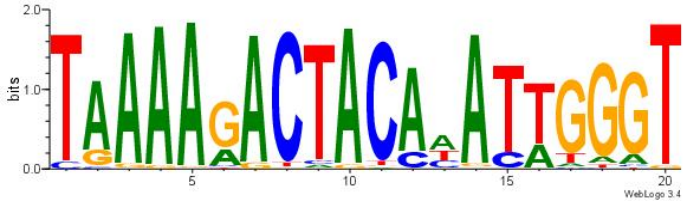

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

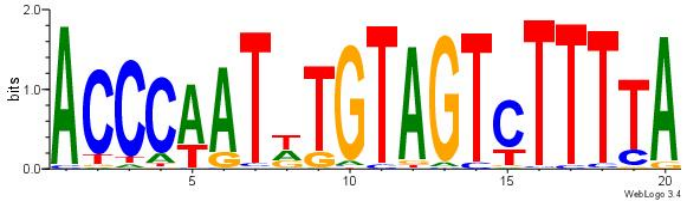

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.090653

Alignment:
GGCACTGCTGGGGGACCCAG
KACATTGATTTTGTATC---

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

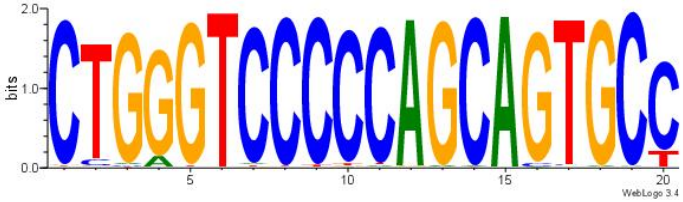

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

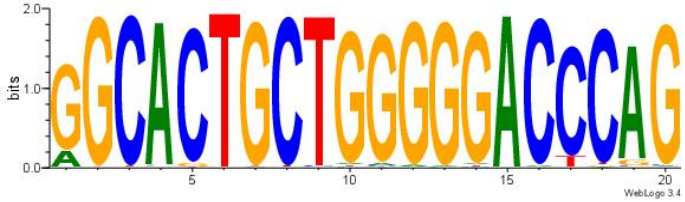

Dataset #: 1
Motif ID: 211
Motif name: Motif 211
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0908034

Alignment:
CGGCTTCATTCTTGAAGTC
GATACAAAATCAATGTR--

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

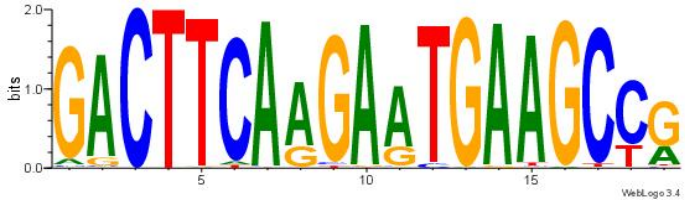

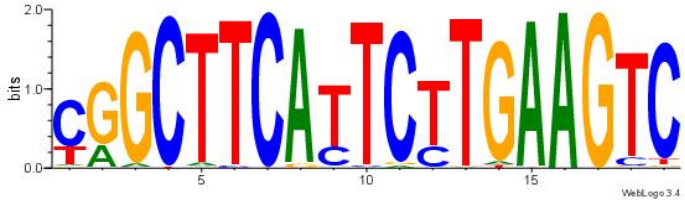

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0913045

Alignment:

```
AGAGCTCTGGCTGGCATCT
-KACATTGATTTTGTATC-
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

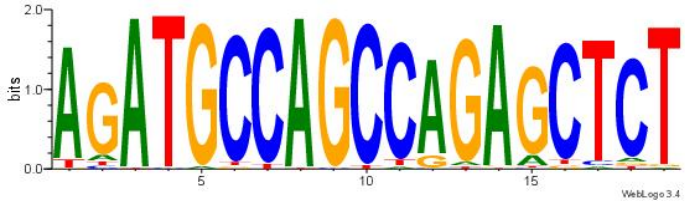

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

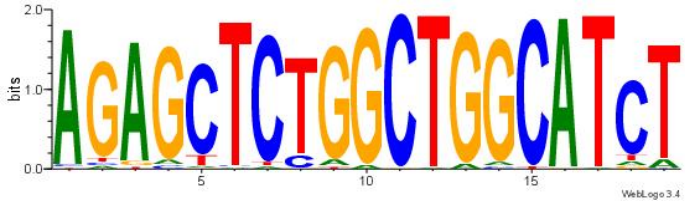

Dataset #: 1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0926416

Alignment:

```
ATGGCTGAATAKTATTCCAT
-KACATTGATTTTGTATC--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

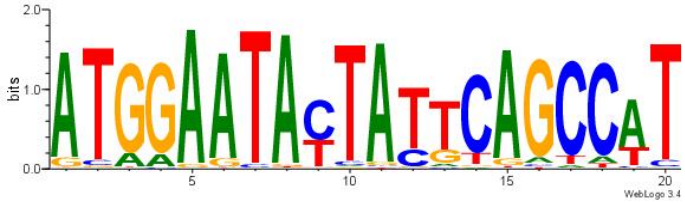

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

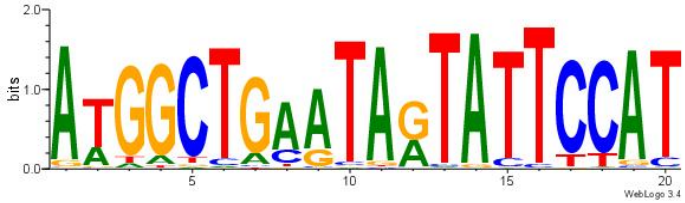

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.0928836

Alignment:
CTATTGTGAATARTGCTGC
-KACATTGATTTTGTATC-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

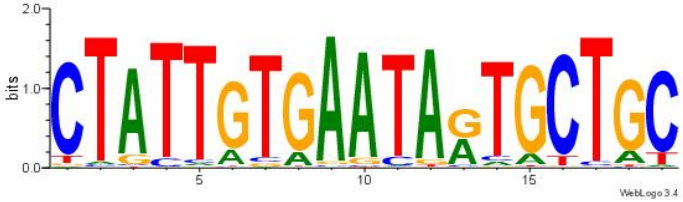

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

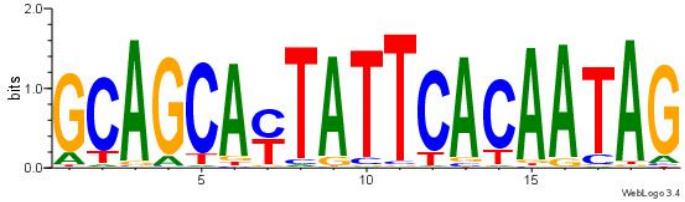

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.0930877

Alignment:
CCACCACAGCTCAAGGAGGC
-GATACAAAATCAATGTR--

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

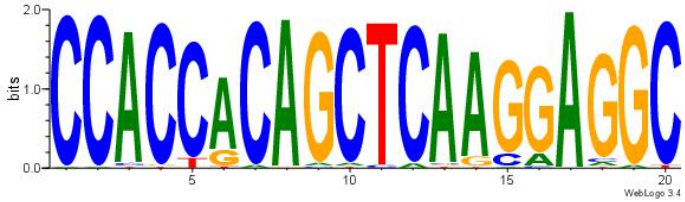

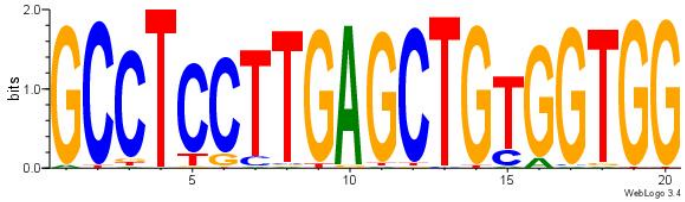

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0935983

Alignment:

```
AAAATCACAAGCATTCCTAT
-GATACAAAATCAATGTR--
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

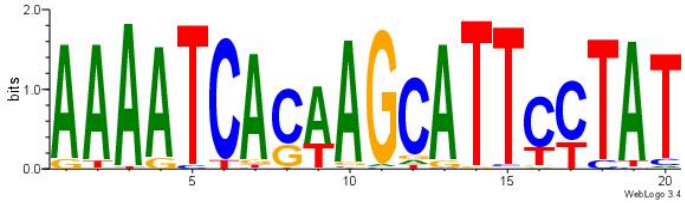

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

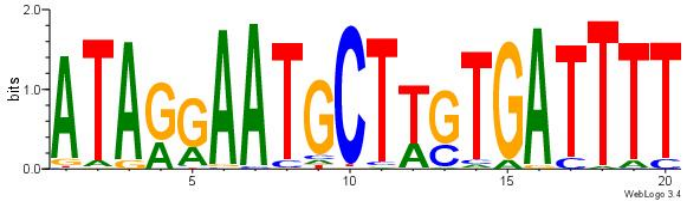

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0939538

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

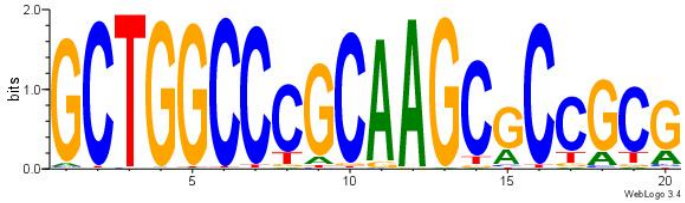

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

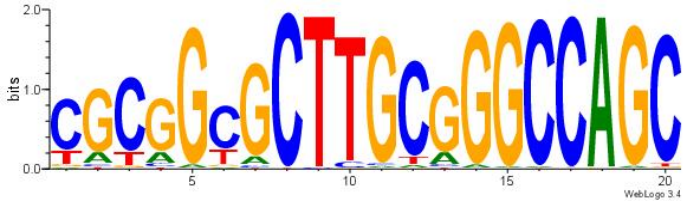

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.0940488

Alignment:
GTAACACTCACCGCGARGGT
GATACAAAATCAATGTR---

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

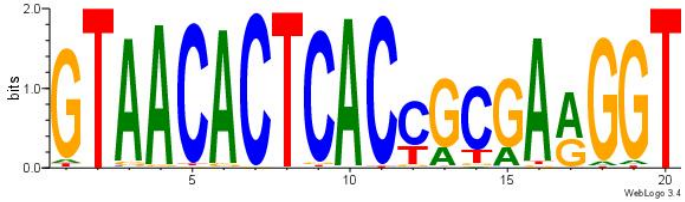

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

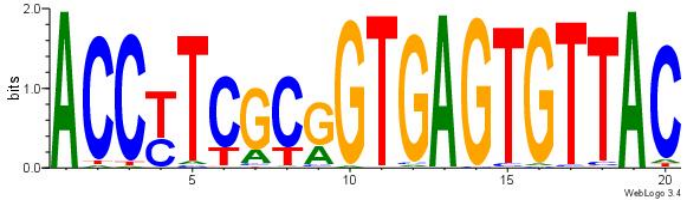

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.0947252

Alignment:
ATACAATGGGGGTACAGRC
-KACATTGATTTTGTATC-

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

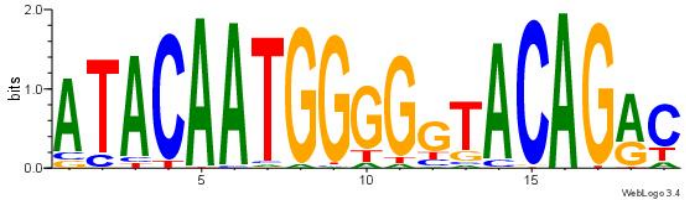

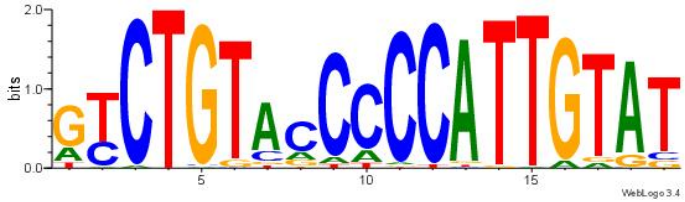

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0951148

Alignment:

```
ATCTCASAAATCACCACTA
-GATACAAAATCAATGTR-
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

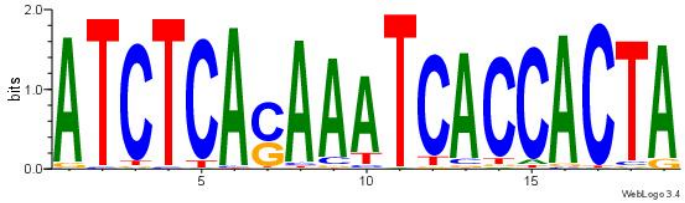

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

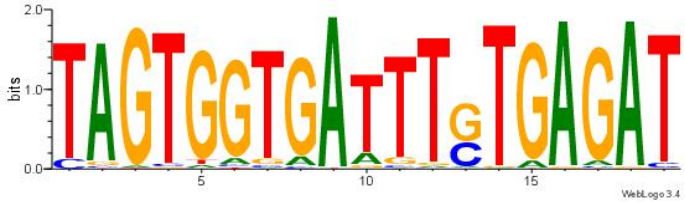

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0951494

Alignment:

```
TTGTCCCACTGGAAGGTCTT
--GATACAAAATCAATGTR-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

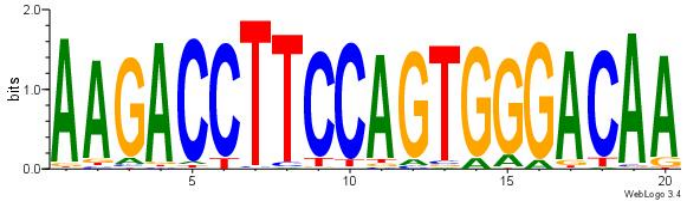

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

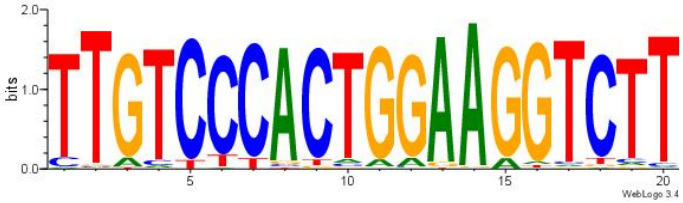

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17

Similarity score: 0.0957661

Alignment:
GGGTCAGGGAGTTCCCTTTC
--KACATTGATTTTGTATC-

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

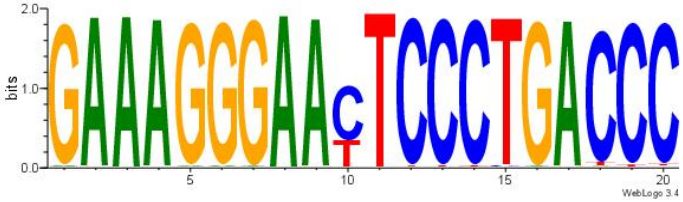

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

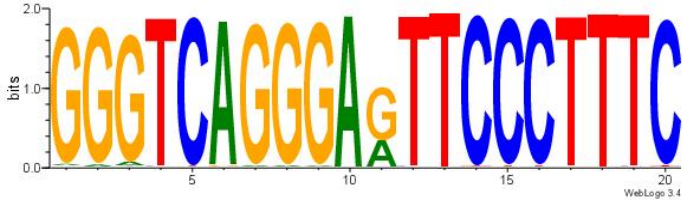

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.0964863

Alignment:
TGAGKCAATTAAACCTCTT
--GATACAAAATCAATGTR

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

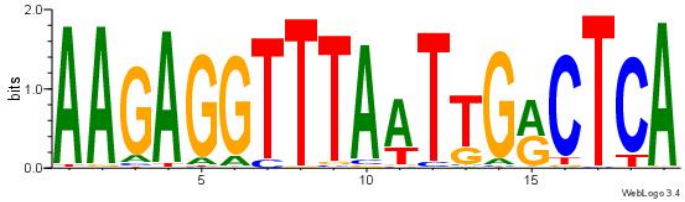

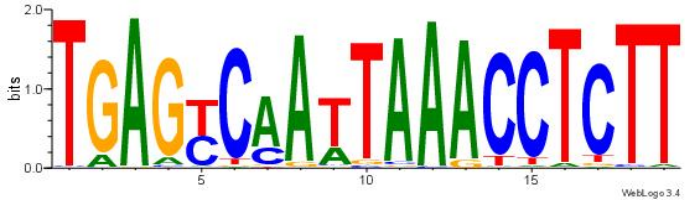

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.097176

Alignment:

```
AAAAGTCCACAGTCCAAAGT
---GATACAAAATCAATGTR
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

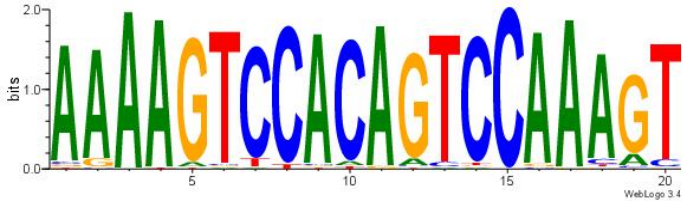

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

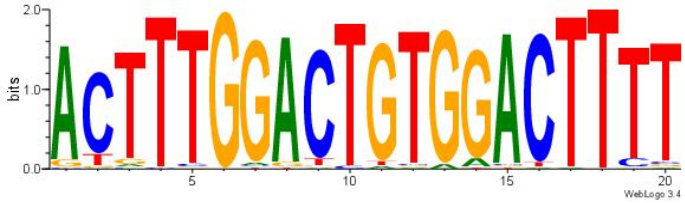

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0972061

Alignment:

```
CTGGCCCTCAATGGTTAAAC
---KACATTGATTTTGTATC
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

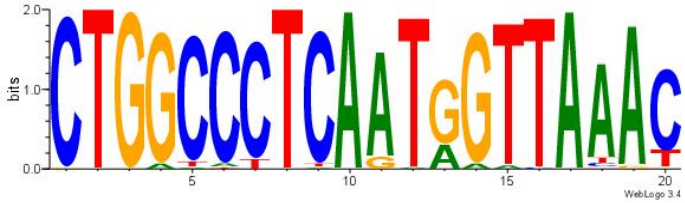

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

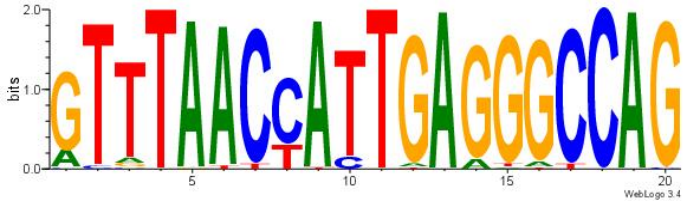

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.0974303

Alignment:
GTKTMTATMTACCACATTTT
GATACAAAATCAATGTR---

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

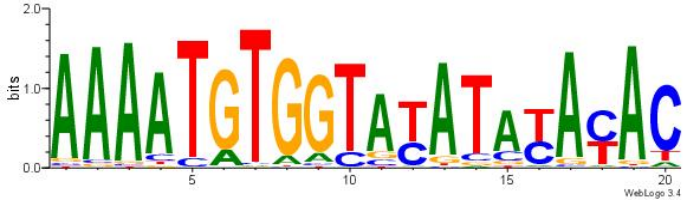

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

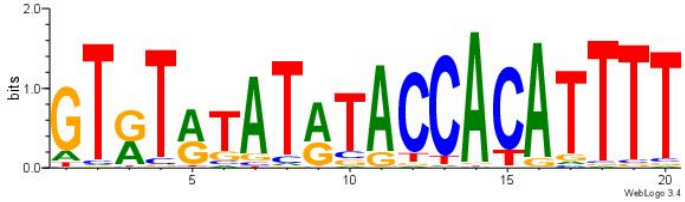

Dataset #: 1 Motif ID: 329 Motif name: Motif 329

Original motif Consensus sequence: GGGAGGGATATATTAGC

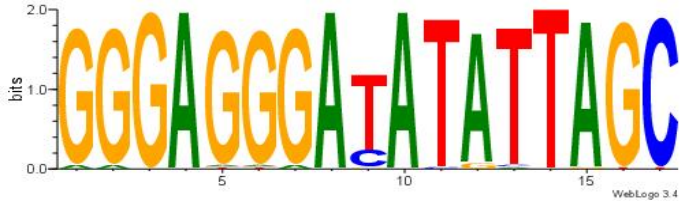

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

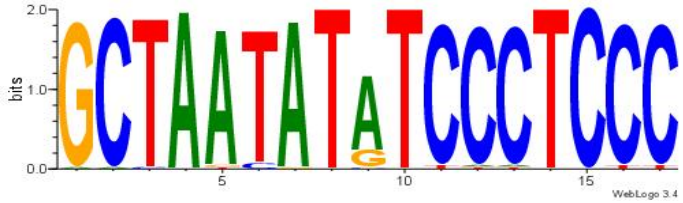

Best Matches for Motif ID 329 (Highest to Lowest)

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0923491

Alignment:

```
TAGATAATAGCTCCAGCTTT
--GCTAATATATCCCTCCC-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

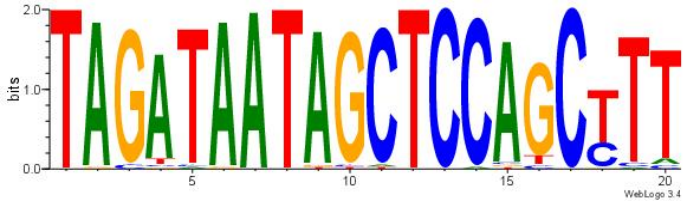

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

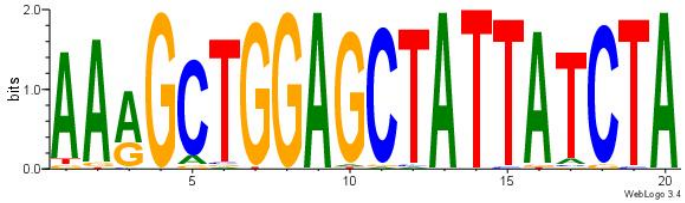

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.102804

Alignment:

GCCAATTTCTCCCATTTGGA
GCTAATATATCCCTCCC---

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

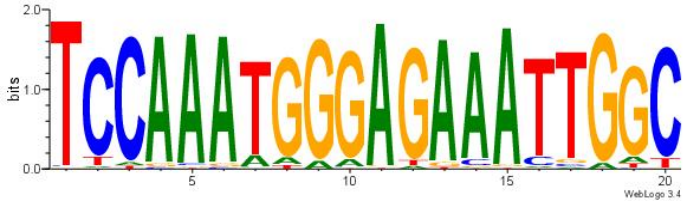

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

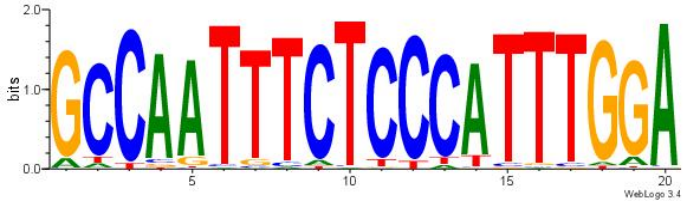

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.109545

Alignment:
GGGAGGTGTCTCCCAGTCAG
---GGGAGGGATATATTAGC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

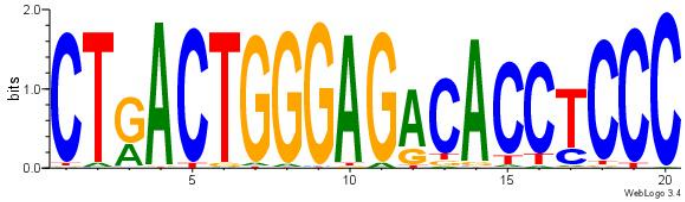

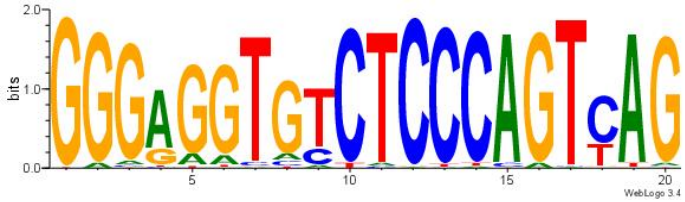

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.114728

Alignment:

```
GTKTMTATMTACCACATTTT
GCTAATATATCCCTCCC---
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

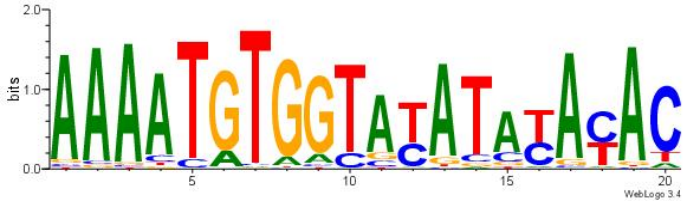

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

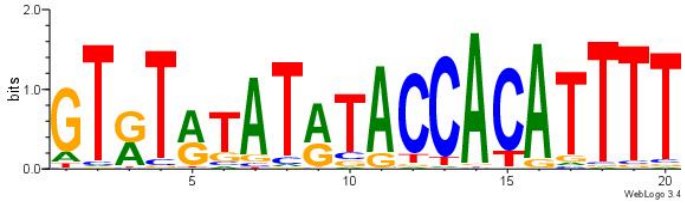

Dataset #:	1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.115902

Alignment:

```
GGGGGAGACATCACACR
GGGAGGGATATATTAGC
```

Original motif Consensus sequence: GGGGGAGACATCACACR

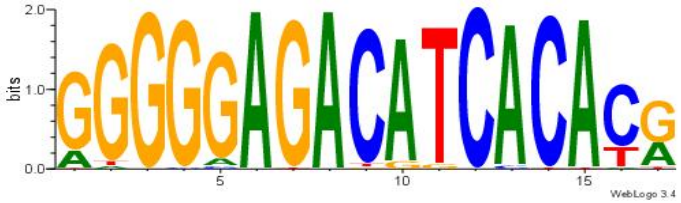

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

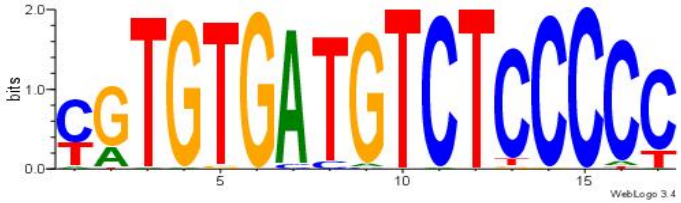

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.116758

Alignment:
AGGAGGAAGTCAATTTC
GGGAGGGATATATTAGC

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

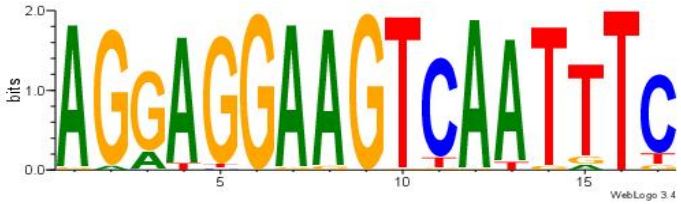

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

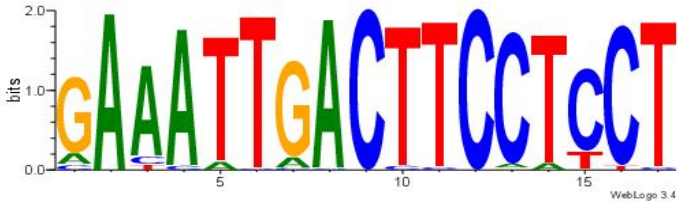

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.117087

Alignment:
ATCTCASAAATCACCACTA
-GCTAATATATCCCTCCC-

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

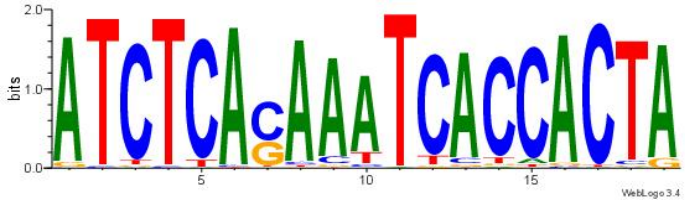

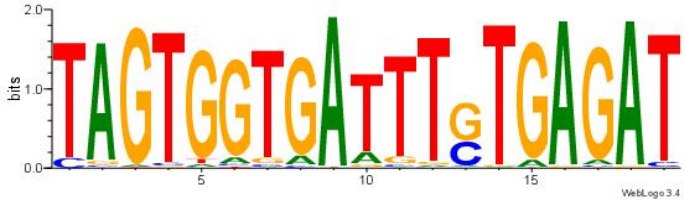

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.118408

Alignment:

```
AAGTTCTKGGKTACATGTGC
GGGAGGGATATATTAGC---
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

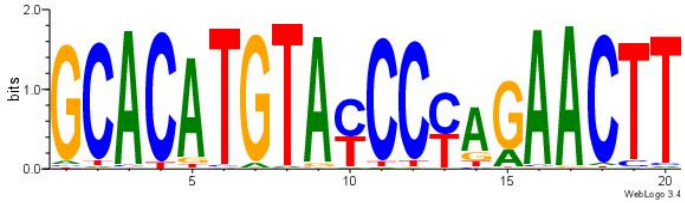

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

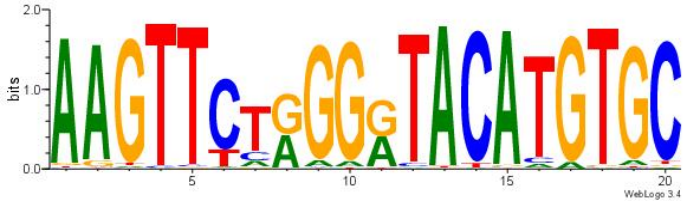

Dataset #:	1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.118494

Alignment:

```
ATCCATCCATCCATCCA
GCTAATATATCCCTCCC
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

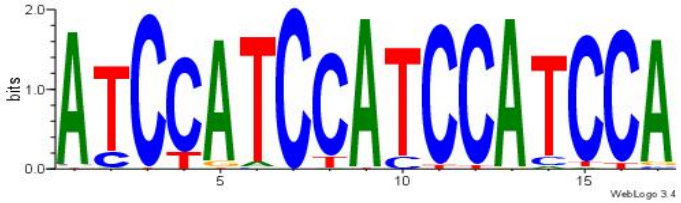

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.120475

Alignment:
GAAAAGCGCAGTATTMGGG
-GGGAGGGATATATTAGC-

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

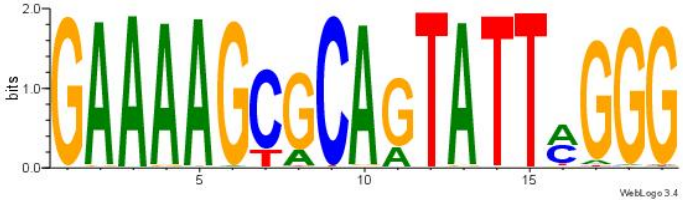

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

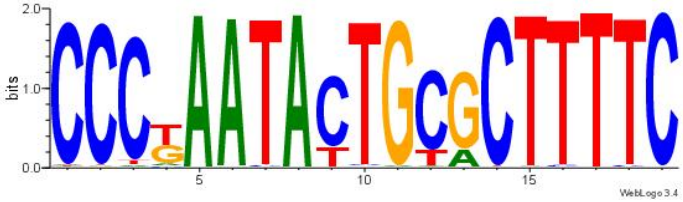

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.123489

Alignment:
AAGCTGAGGGAGCCGGCTCC
-GCTAATATATCCCTCCC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

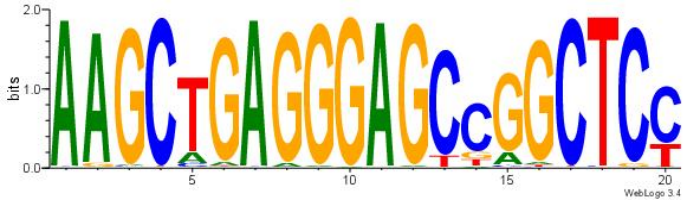

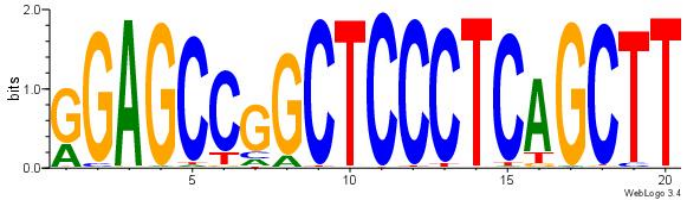

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.124252

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
---GCTAATATATCCCTCCC
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

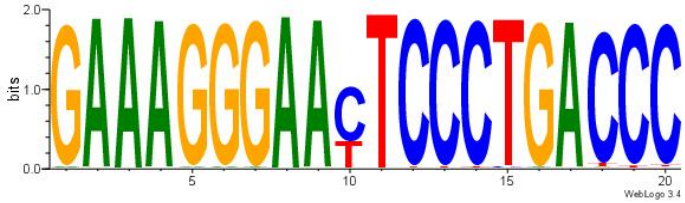

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

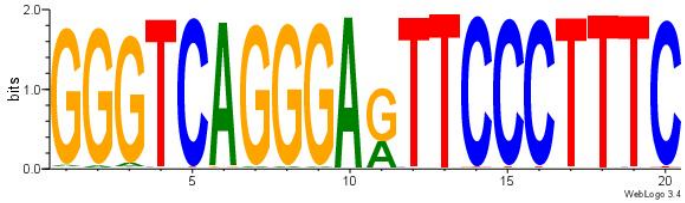

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.127343

Alignment:

GATACAAAATCAATGTR

GCTAATATATCCCTCCC

Original motif Consensus sequence: GATACAAAATCAATGTR

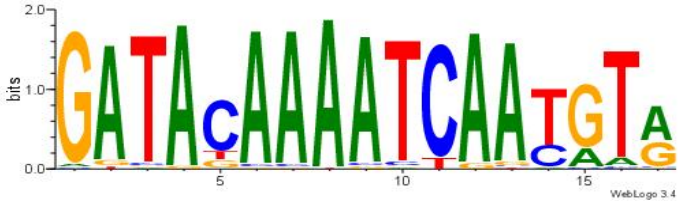

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

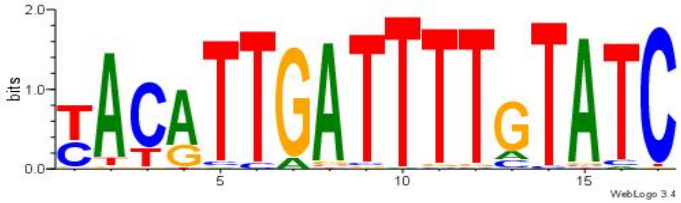

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.127396

Alignment:
TGCTGGAGGTCCACTCCAGA
---GGGAGGGATATATTAGC

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

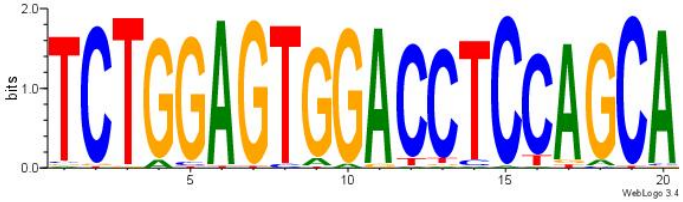

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

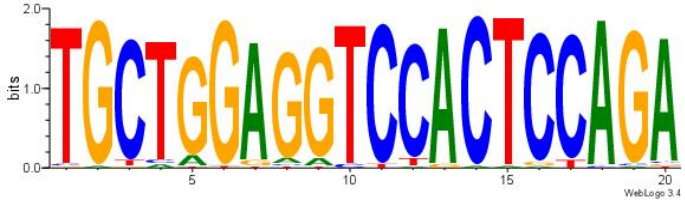

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.127681

Alignment:
GGAGGTGTGGAGGGAGAGGC
GGGAGGGATATATTAGC---

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

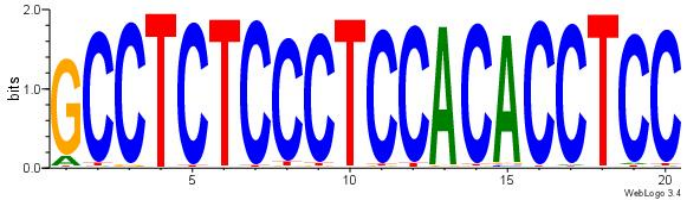

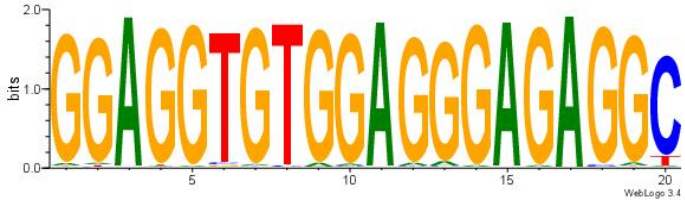

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.129107

Alignment:

```
ATGTGGAGGTGGAAGACAGT
GGGAGGGATATATTAGC---
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

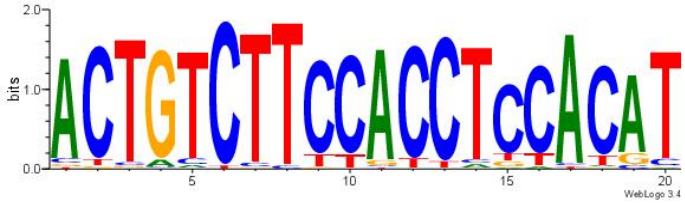

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

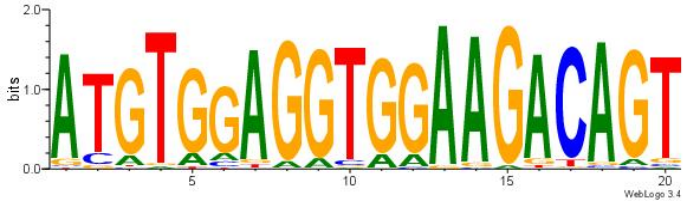

Dataset #:	1

Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.12988

Alignment:

```
GTTAACTGTAAAACAGCCT
GGGAGGGATATATTAGC--
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

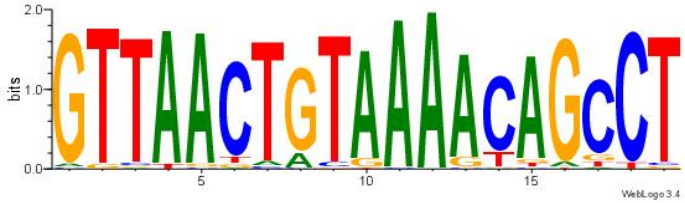

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

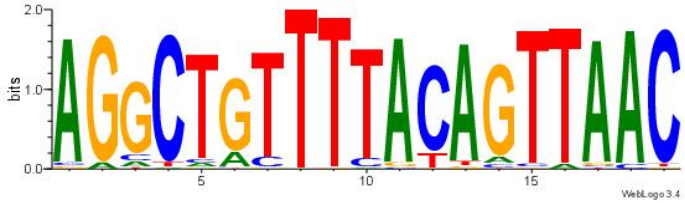

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.130049

Alignment:
GCAAAKGACATGATYTCATT
GGGAGGGATATATTAGC---

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

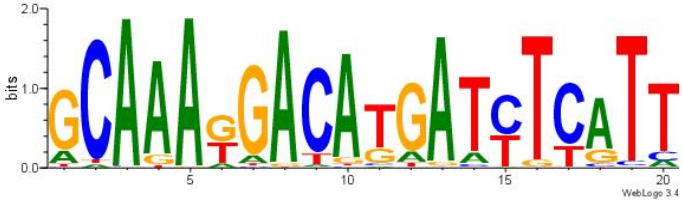

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

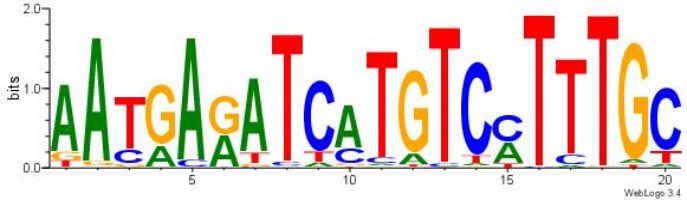

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.130075

Alignment:
ATGTAACCAAAYACCACCTG
--GCTAATATATCCCTCCC-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

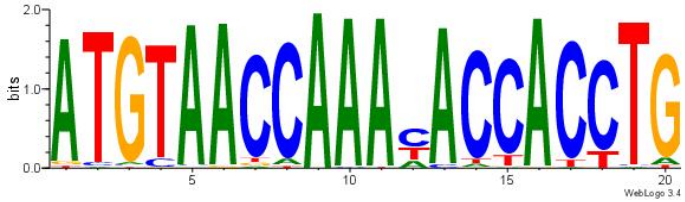

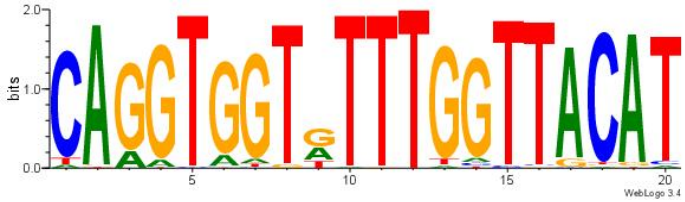

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.130421

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
--GGGAGGGATATATTAGC-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

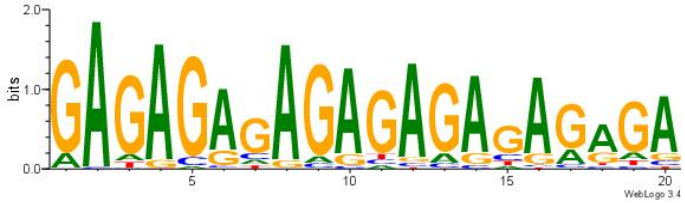

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

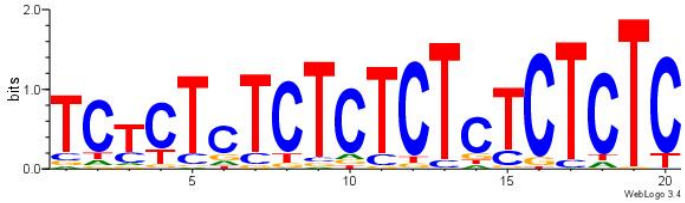

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.130781

Alignment:

```
ATGGAATAYTATTCAGCCAT
-GCTAATATATCCCTCCC--
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

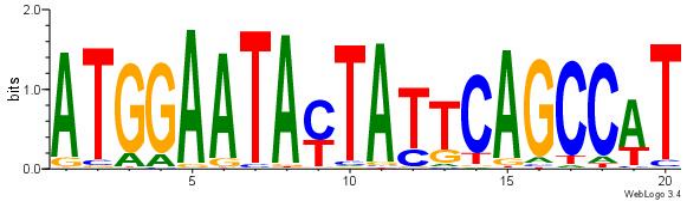

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

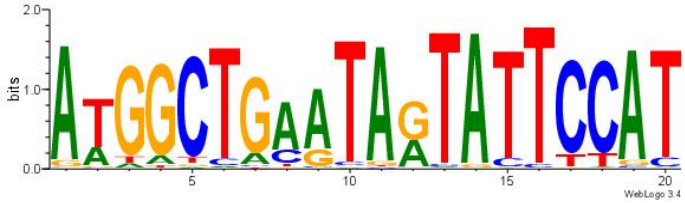

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.131122

Alignment:
AGGTTTGTTACATAGGTAWA
GGGAGGGATATATTAGC---

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

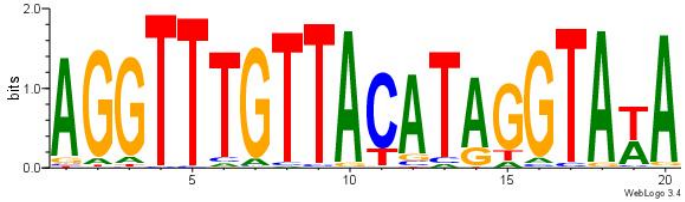

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

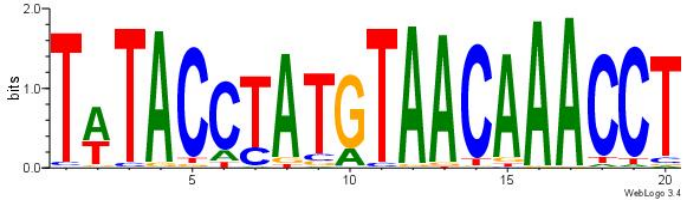

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.1312

Alignment:
GGGATTGTAAATACACCAAT
--GCTAATATATCCCTCCC-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

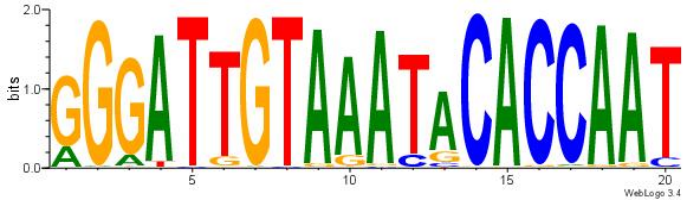

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.131552

Alignment:

```
GGCAATGCCTCGCCCTGCTT
GCTAATATATCCCTCCC---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

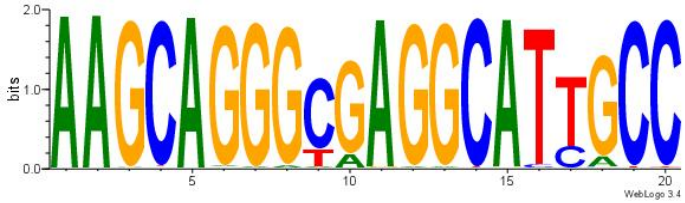

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

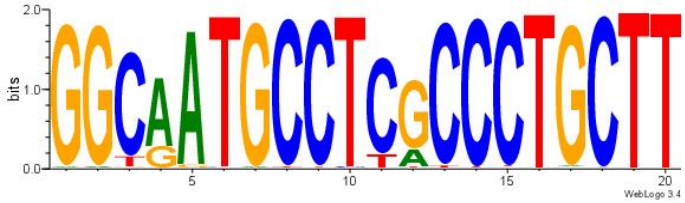

Dataset #:	1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.13188

Alignment:

```
CTCAGGAATGGAAAACC
GGGAGGGATATATTAGC
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

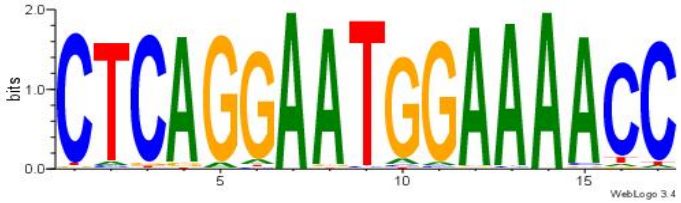

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

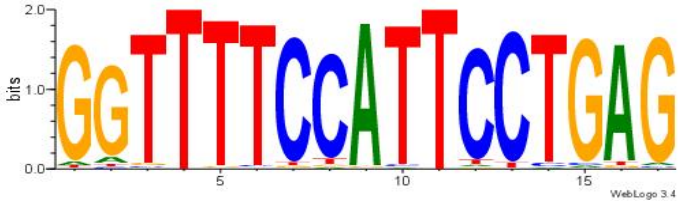

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

Similarity score: 0.13267

Alignment:
MGGGATATAATCTCCTGGTG
---GCTAATATATCCCTCCC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

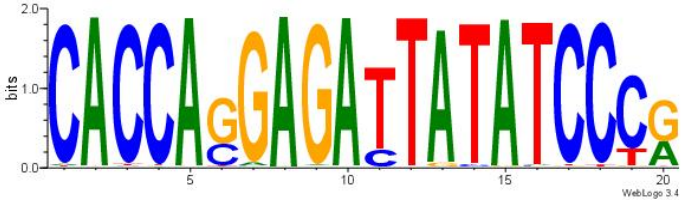

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

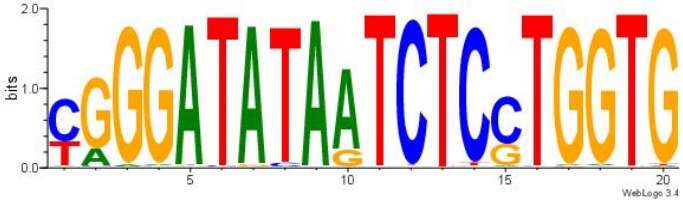

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.132953

Alignment:
GGCATCACGGATCCTACCAA
-GCTAATATATCCCTCCC--

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

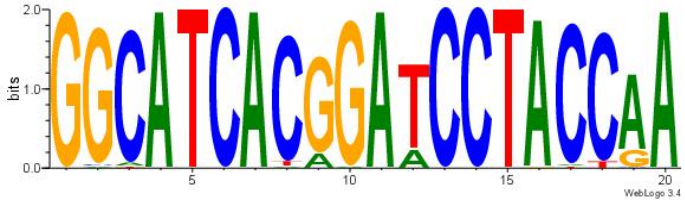

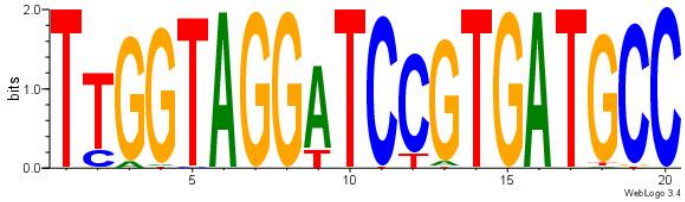

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.133416

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-GGGAGGGATATATTAGC--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

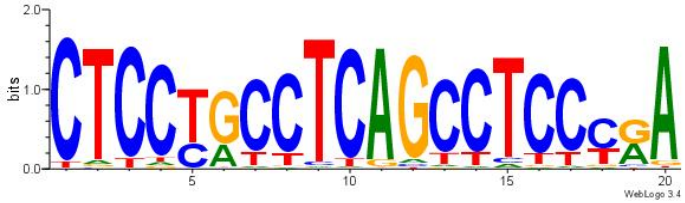

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

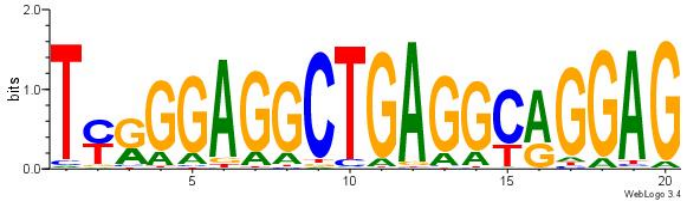

Dataset #:	1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.133646

Alignment:

```
GCCAGGCAGAGRGKCTCCT
GGGAGGGATATATTAGC--
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

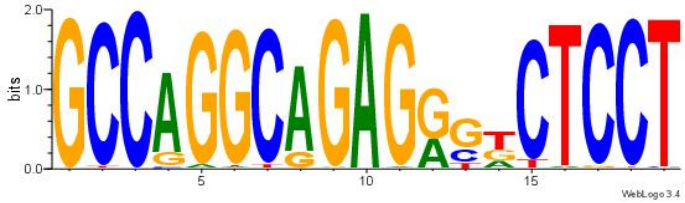

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

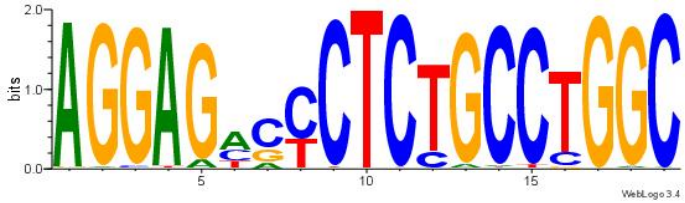

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.133793

Alignment:
TTGGAGGTTCTAGCAGGG
-GGGAGGGATATATTAGC

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

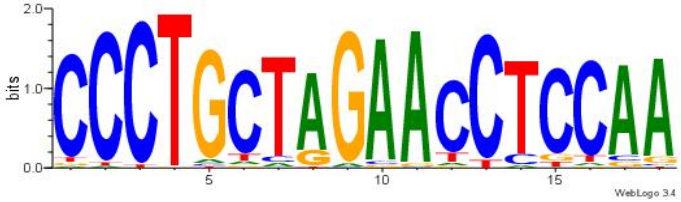

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

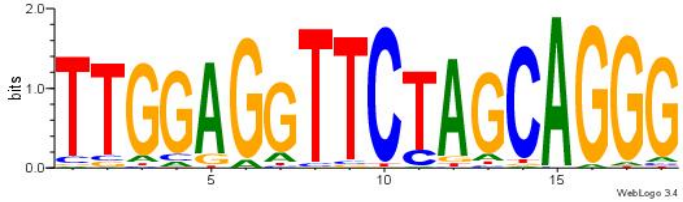

Dataset #: 1
Motif ID: 2
Motif name: Motif 2
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.133971

Alignment:
ATTAGCYRGGCRTGGTGGC
--GGGAGGGATATATTAGC

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

Reverse complement motif Consensus sequence:
GCCACCAMGCCMKGCTAAT

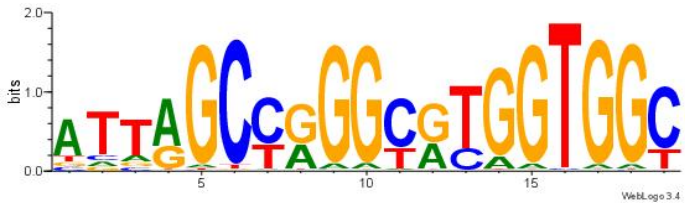

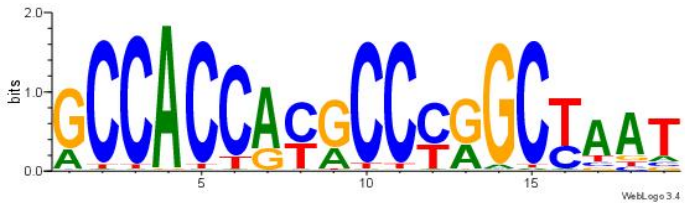

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.135192

Alignment:

```
CAGCTACTCKTATACCCTTG
--GCTAATATATCCCTCCC-
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

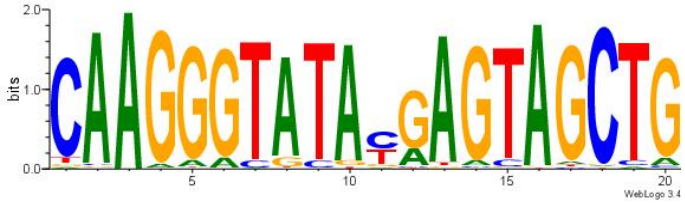

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

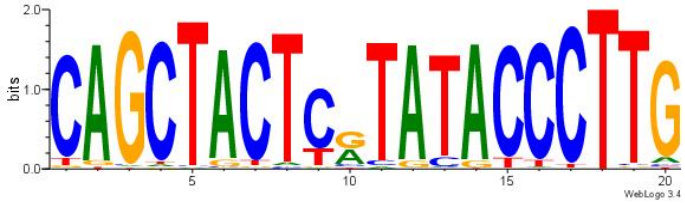

Dataset #: 1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.135591

Alignment:

```
GCTGCARTCTCGGCACTTT
GCTAATATATCCCTCCC--
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

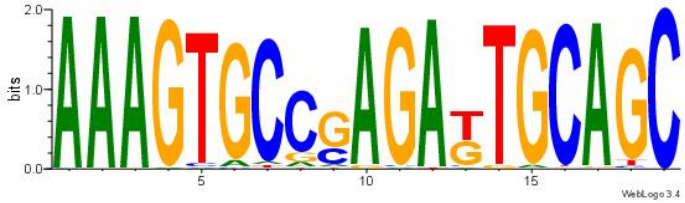

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

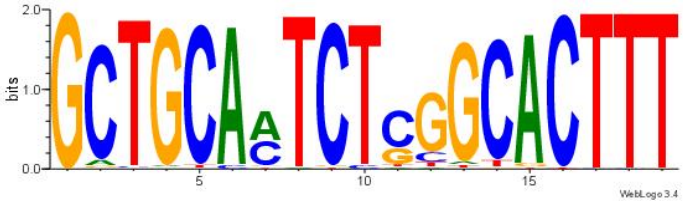

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

Similarity score: 0.136031

Alignment:
CTAGACATAAAGGTTCTCCA
GCTAATATATCCCTCCC---

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

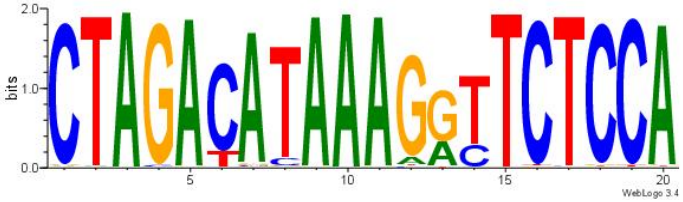

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

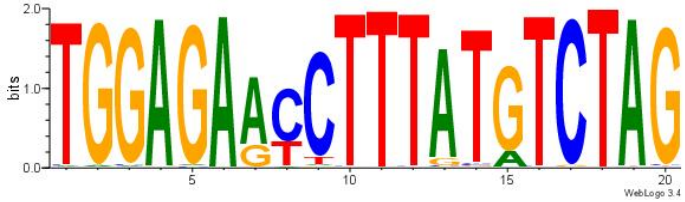

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.137032

Alignment:
ACTCAGCCCRCCTGCACCC
--GCTAATATATCCCTCCC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

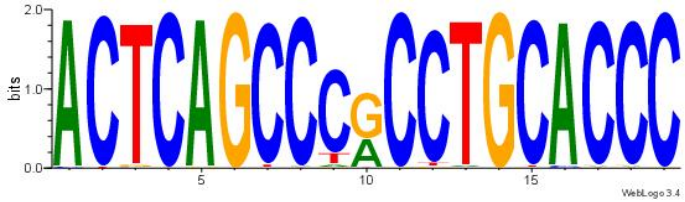

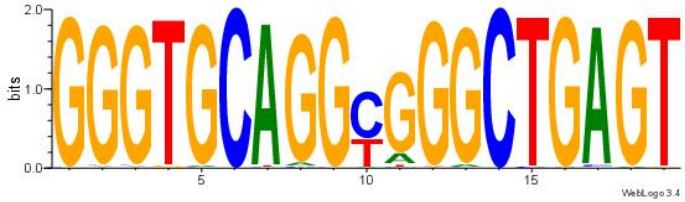

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.137517

Alignment:

```
GCCAGTCACAAAARGACAMA
GGGAGGGATATATTAGC---
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

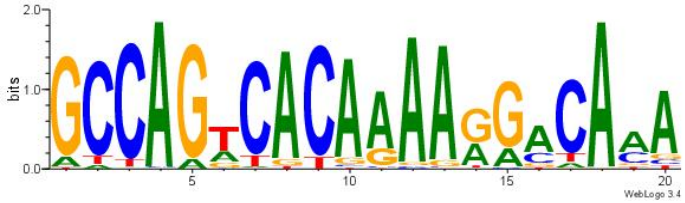

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

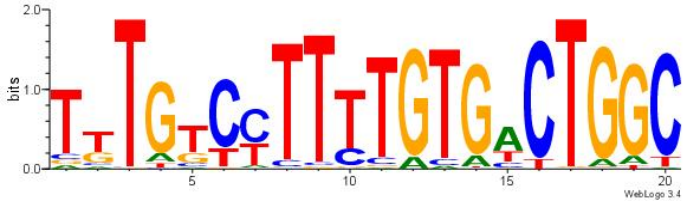

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.138282

Alignment:

```
AGGAACAGCTCCRGTCTAC
--GCTAATATATCCCTCCC
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

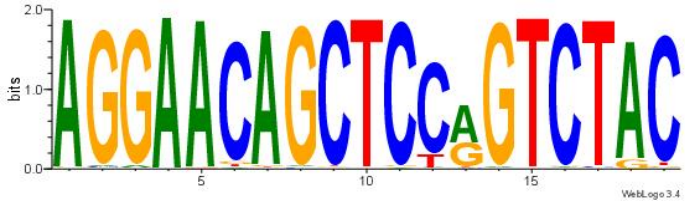

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

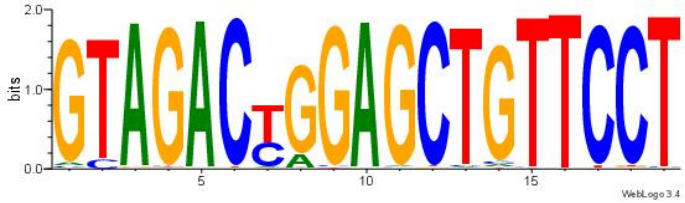

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17

Similarity score: 0.139011

Alignment:
AAGGAACAAACTCCRGACAC
-GCTAATATATCCCTCCC--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

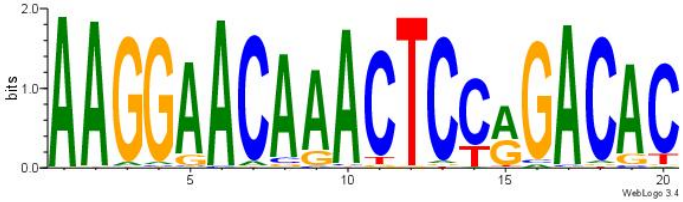

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

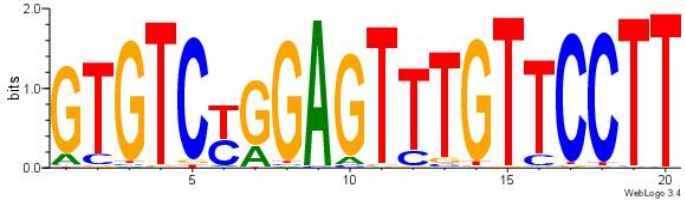

Dataset #: 1
Motif ID: 92
Motif name: Motif 92
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.139879

Alignment:
GGTGGGGGGGTCAGCCCCC
--GGGAGGGATATATTAGC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

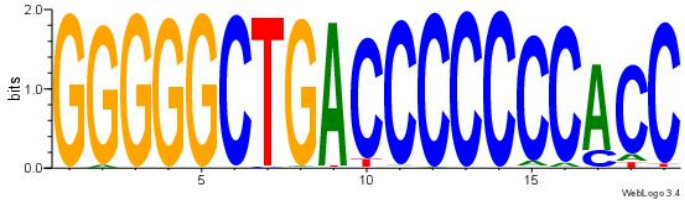

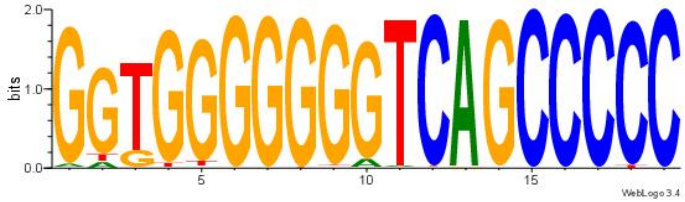

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.140016

Alignment:

```
GACTGGCAGGCAGCTCCACC
--GCTAATATATCCCTCCC-
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

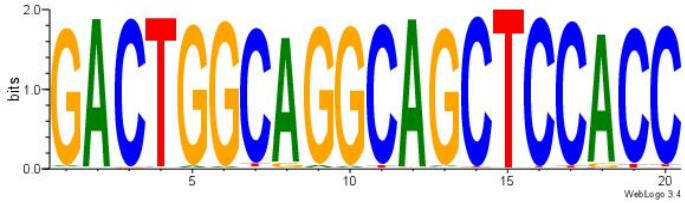

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

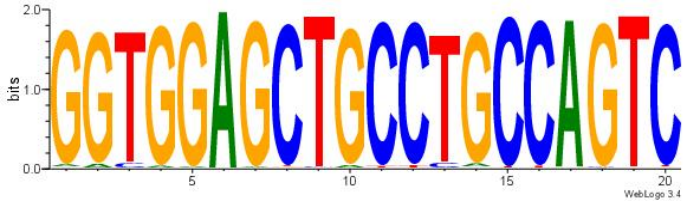

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.140105

Alignment:

```
TGAGKCAATTAAACCTCTT
--GCTAATATATCCCTCCC
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

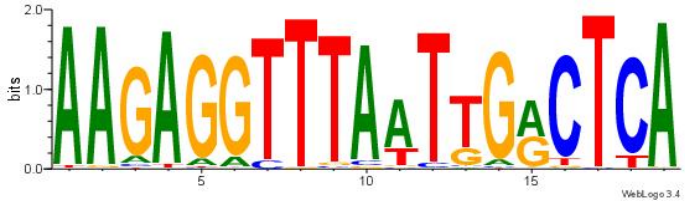

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

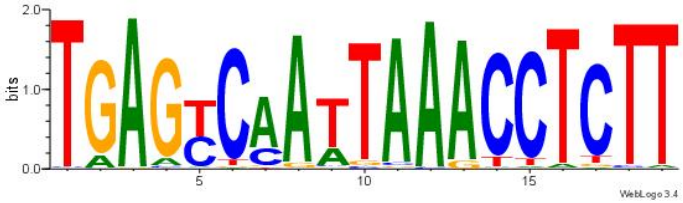

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17

Similarity score: 0.141338

Alignment:
MGTCTMKCTCTGTKGCCCAG
-GCTAATATATCCCTCCC--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

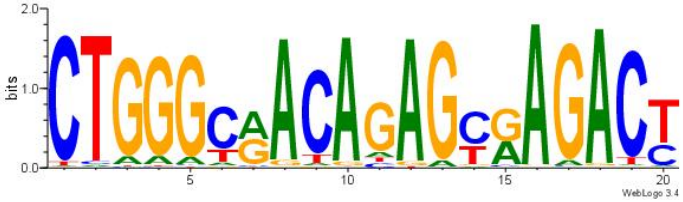

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

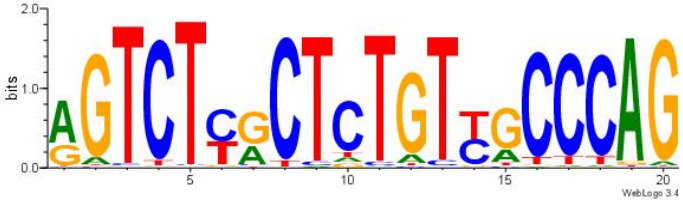

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.141348

Alignment:
GACAGGAGATTAACACTGAG
---GGGAGGGATATATTAGC

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

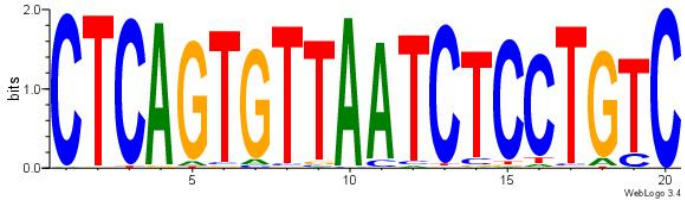

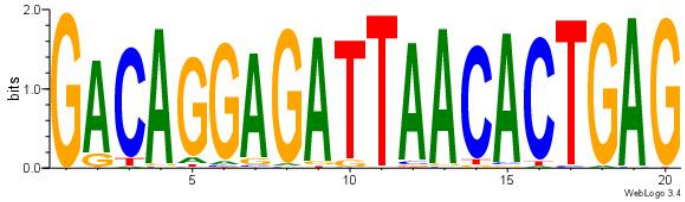

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.141804

Alignment:

```
MGAAGGGACTTGCCTTGT
-GGGAGGGATATATTAGC
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

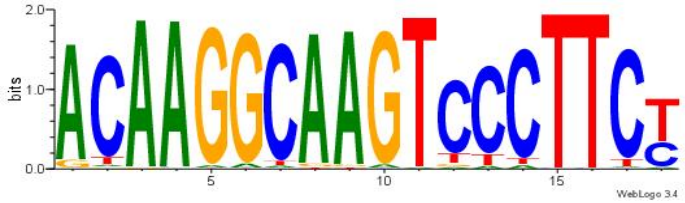

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

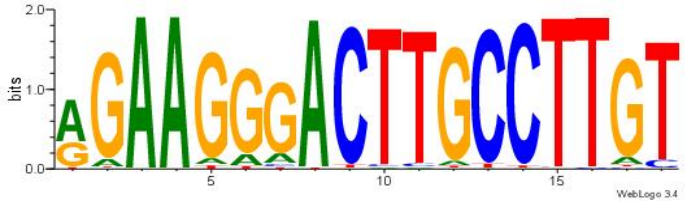

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.142298

Alignment:

```
CCGCTGCACTGTGGGAGCCC
-GCTAATATATCCCTCCC--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

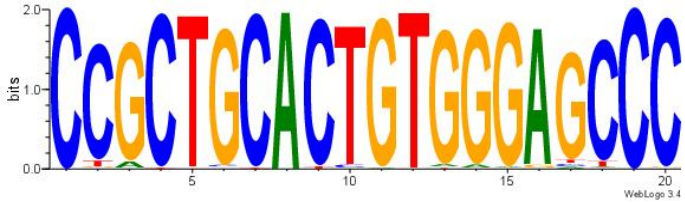

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

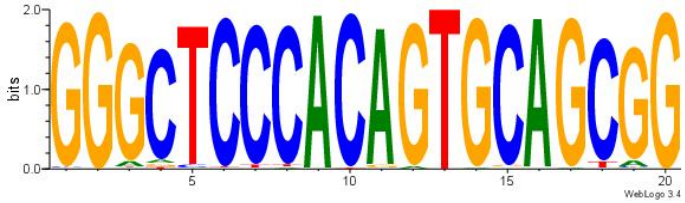

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17

Similarity score: 0.142865

Alignment:
AGAGCCAAATCATGARTGAA
---GCTAATATATCCCTCCC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

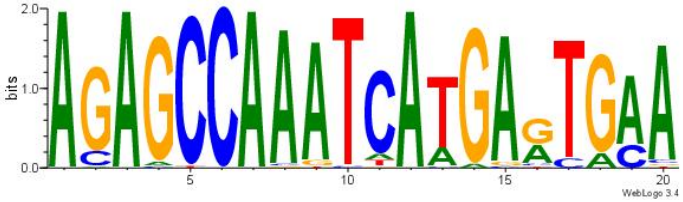

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

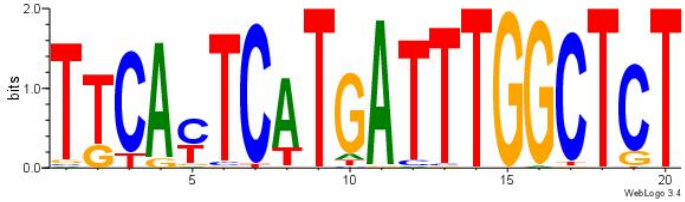

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.142973

Alignment:
GTCCCATCGACCACCCAAG
-GCTAATATATCCCTCCC-

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

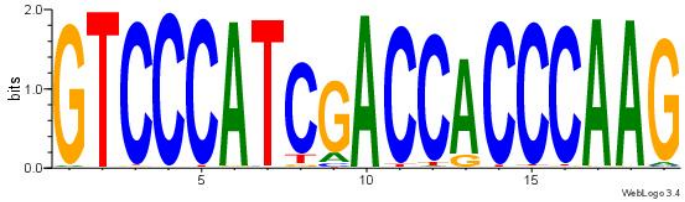

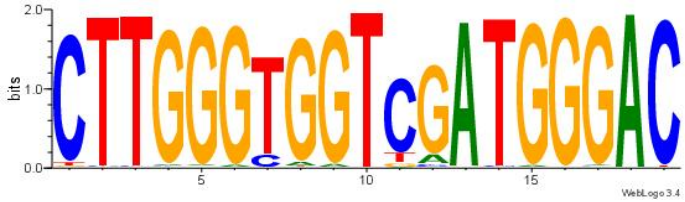

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.143019

Alignment:

```
GTGGCCCTCTTCTCACAGCT
---GCTAATATATCCCTCCC
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

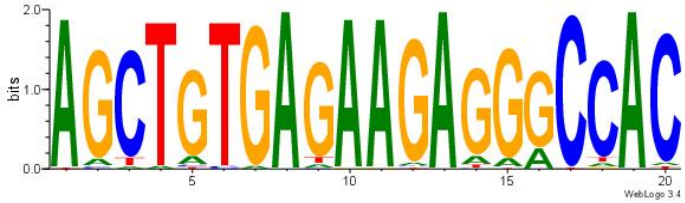

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

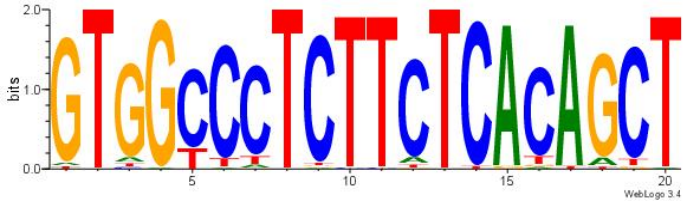

Dataset #:	1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.144185

Alignment:

```
AGCCYCTGGYAACCAYYAWT
--GCTAATATATCCCTCCC-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

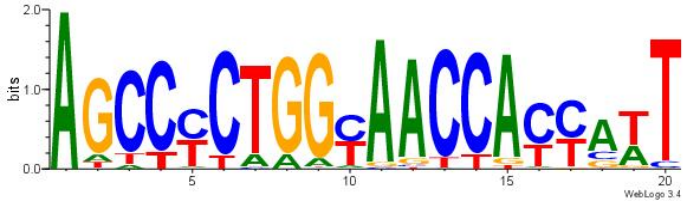

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

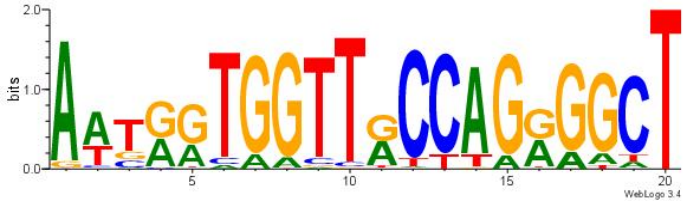

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17

Similarity score: 0.144479

Alignment:
CAAGCCTSKGCAATGGCAGG
GGGAGGGATATATTAGC---

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

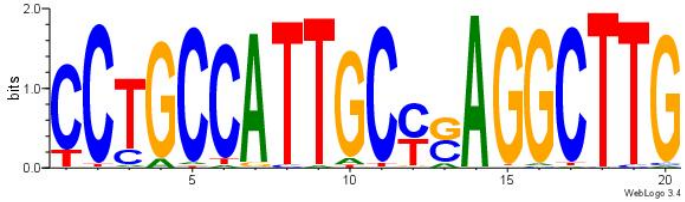

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

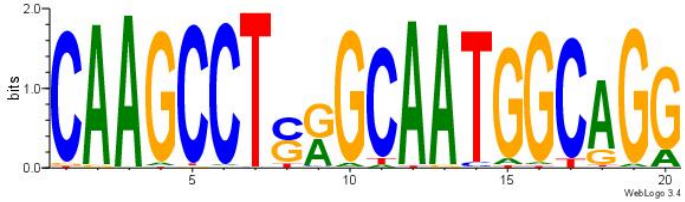

Dataset #: 1 Motif ID: 330 Motif name: Motif 330

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

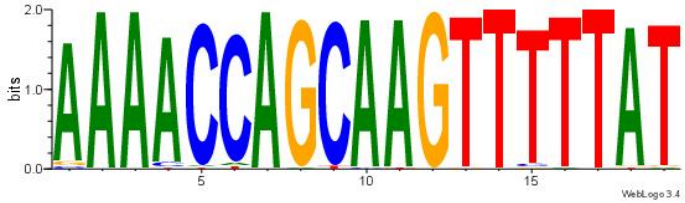

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

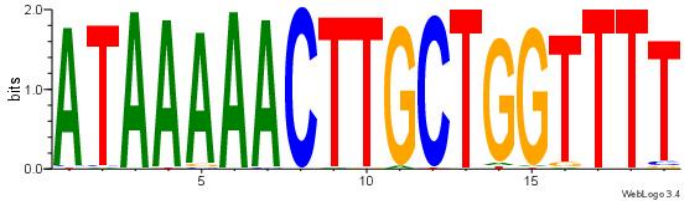

Best Matches for Motif ID 330 (Highest to Lowest)

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0925249

Alignment:

```
AGTGAGAACATRYRRTRTTT
ATAAAAACTTGCTGGTTTT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

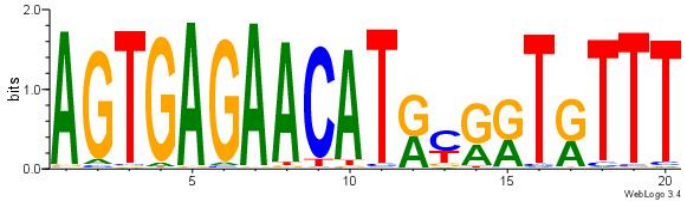

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

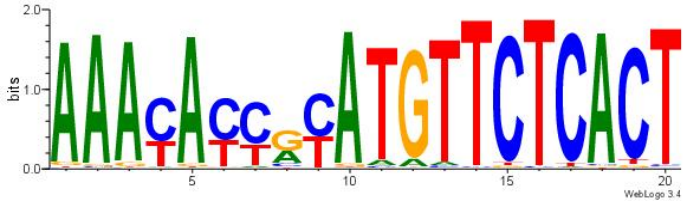

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.112206

Alignment:

AAATTAGGCCAATTAATAAC
AAAACCAGCAAGTTTTTAT-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

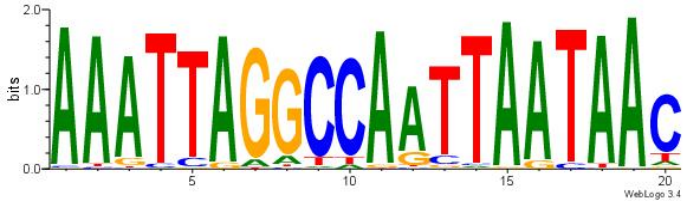

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.114461

Alignment:
AAAATCACAAGCATTCCTAT
AAAACCAGCAAGTTTTTAT-

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

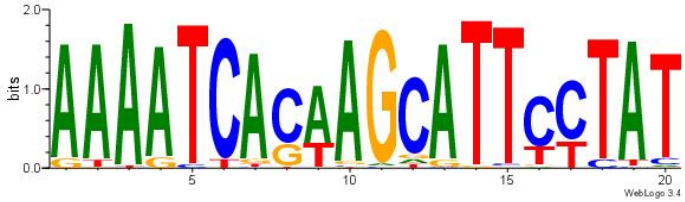

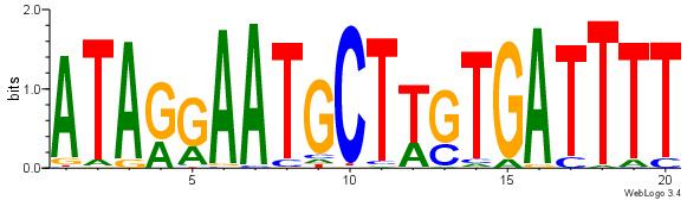

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.121081

Alignment:

```
GCAAAKGACATGATYTCATT
AAAACCAGCAAGTTTTTAT-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

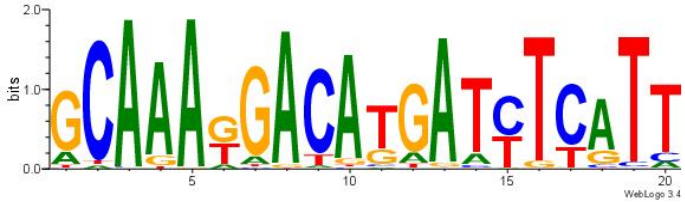

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

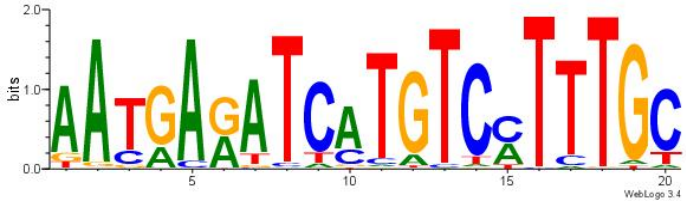

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.121875

Alignment:

```
GAAACTGCTTTGTGATGTGT
ATAAAAACTTGCTGGTTTT-
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

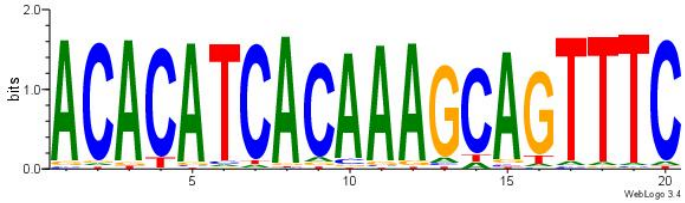

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

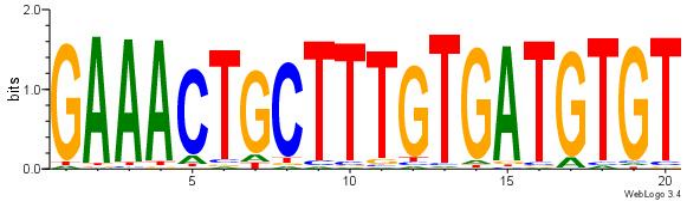

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.122768

Alignment:
TTGTCCCACTGGAAGGTCTT
-ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

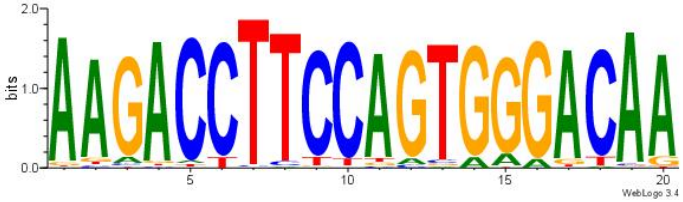

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

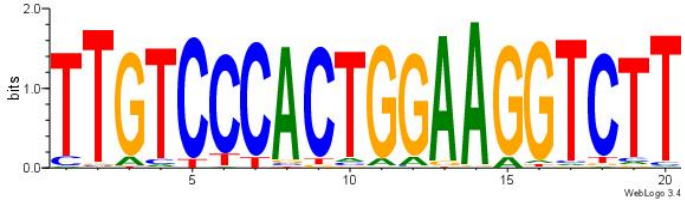

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.123157

Alignment:
TGGAGAACCTTTATGTCTAG
-ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

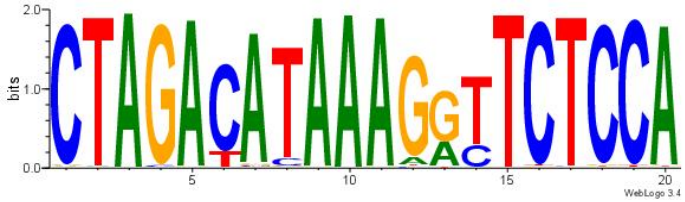

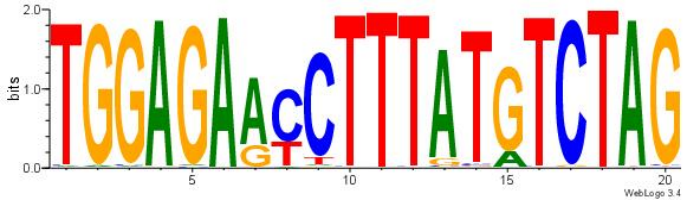

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.124587

Alignment:

```
AATCAACCCTGGYRATCAAT
ATAAAAACTTGCTGGTTTT-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

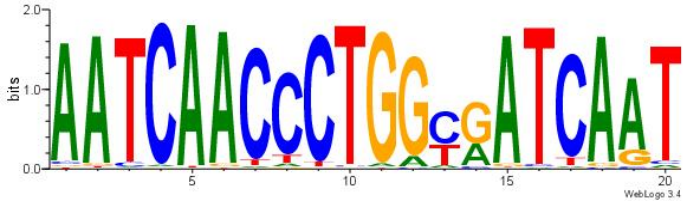

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

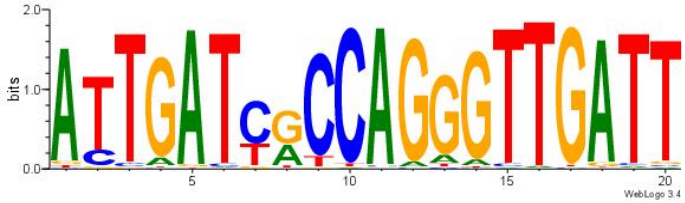

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.125048

Alignment:
AGGAACAGCTCCRGTCTAC
AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

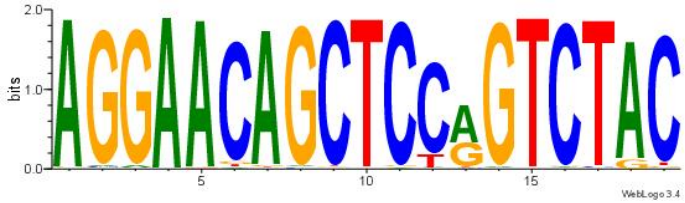

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

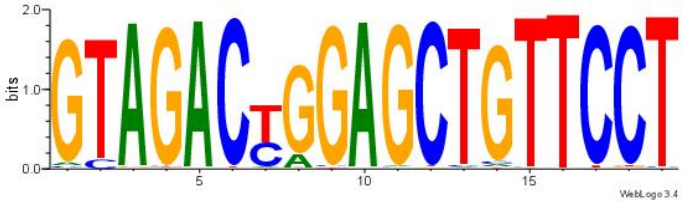

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.126032

Alignment:
AACAACASACACTGGGGCCT
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

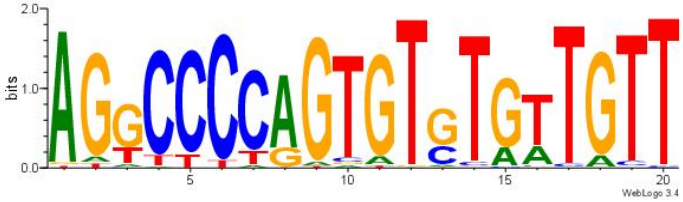

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

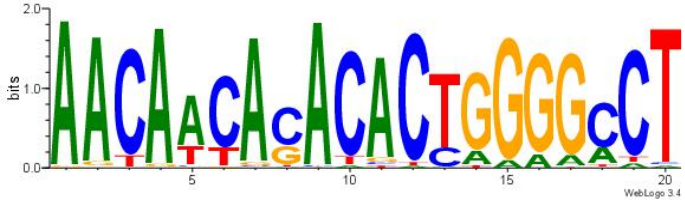

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.126946

Alignment:
ATGATCCAGCAATYCCACTH
-AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

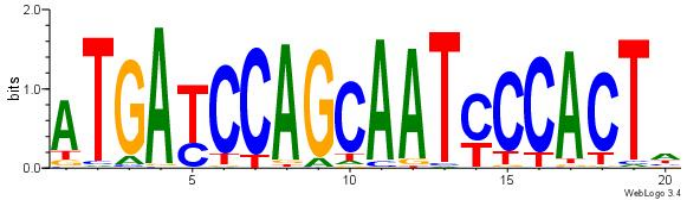

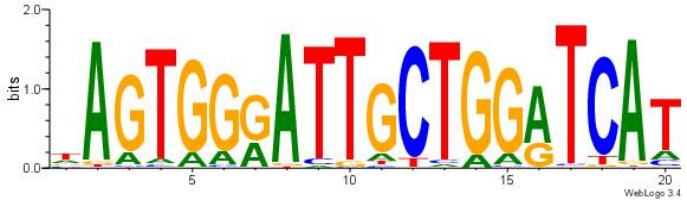

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.127201

Alignment:

```
GAAHCAACCKAAKTGTCCAT
AAAACCAGCAAGTTTTTAT-
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

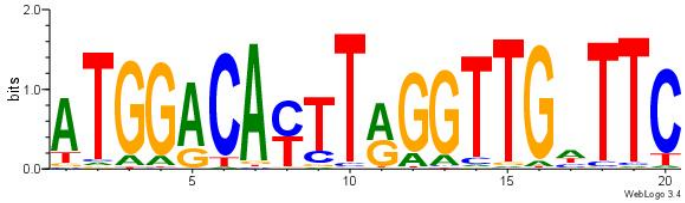

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

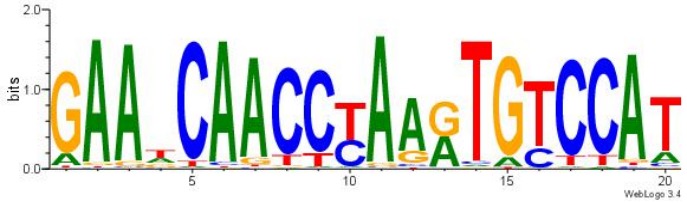

Dataset #:	1

Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.127561

Alignment:

```
ATGGCCTATGACYGSTTTG
ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

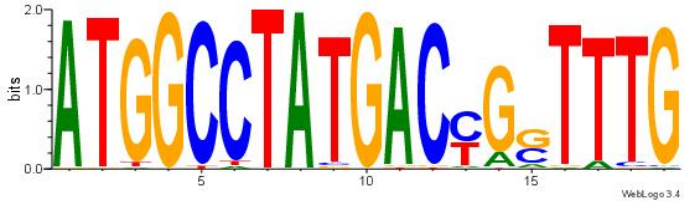

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

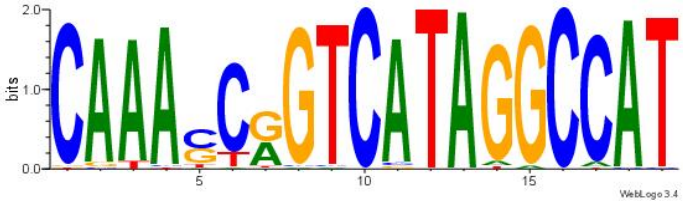

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.129726

Alignment:
TAGATAATAGCTCCAGCTTT
-ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

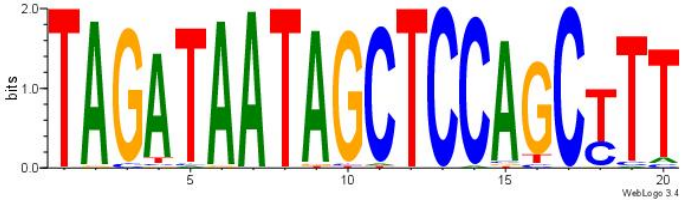

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

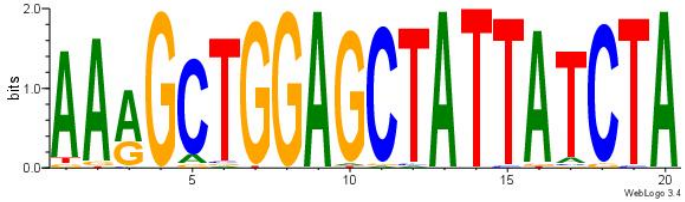

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.132313

Alignment:
CTGAGGACCTGAGGTCRTA
ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

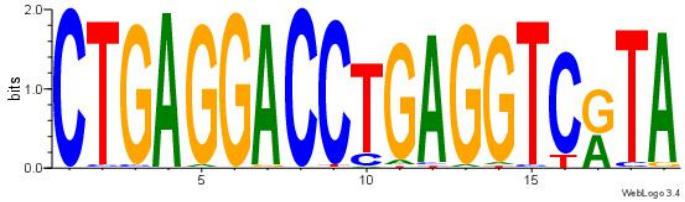

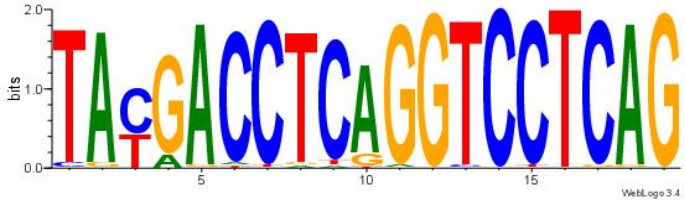

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.133729

Alignment:

```
GTTTAACCATTGAGGGCCAG
-ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

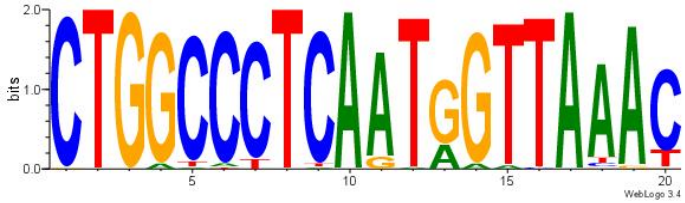

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

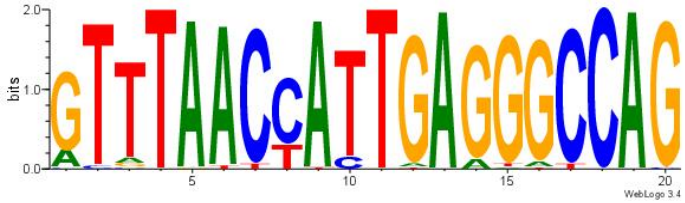

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133942

Alignment:

```
GAATCCTGGGACAGCCTGT
AAAACCAGCAAGTTTTTAT
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

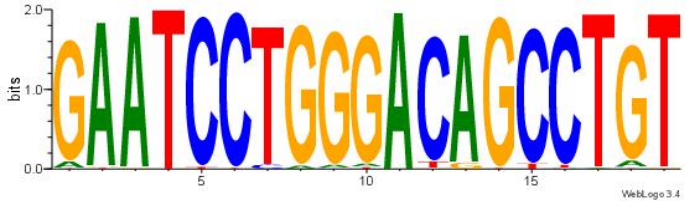

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

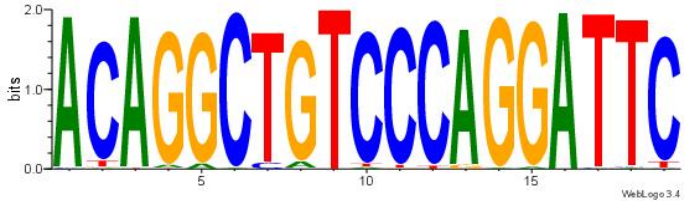

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.134418

Alignment:
GAAAAGCGCAGTATTMGGG
AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

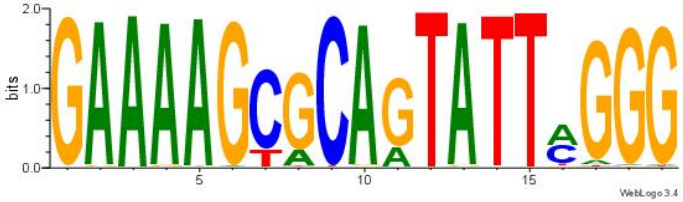

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

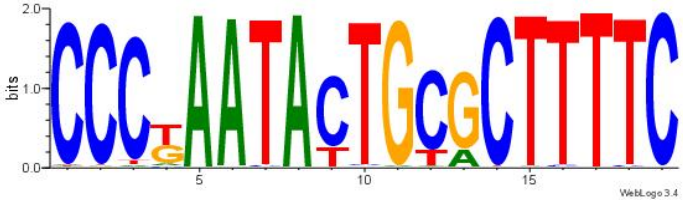

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.136144

Alignment:
ACTTTGGACTGTGGACTTTT
-ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

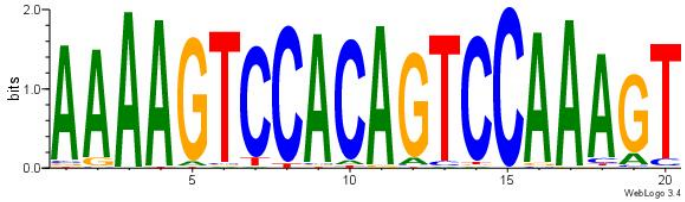

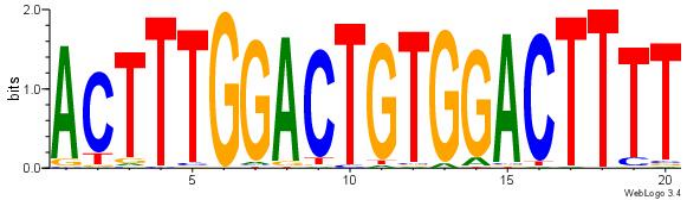

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.136937

Alignment:

```
GTKTMTATMTACCACATTTT
-ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

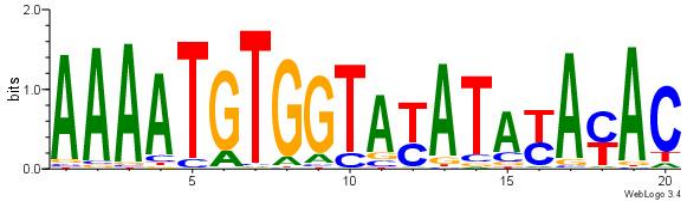

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

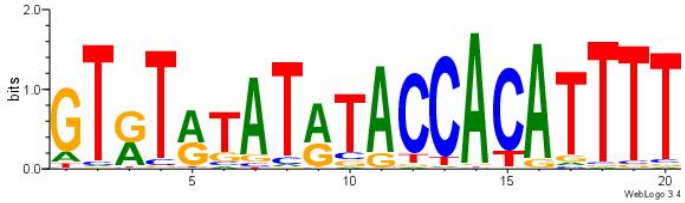

Dataset #: 1

Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137208

Alignment:
AAGTCTCCCAATTACAACT
AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

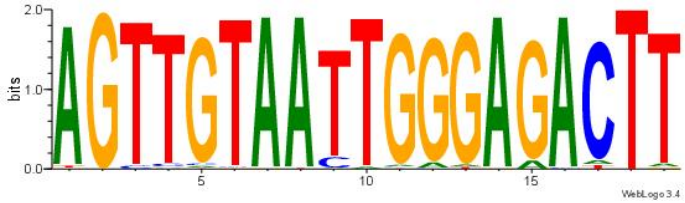

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

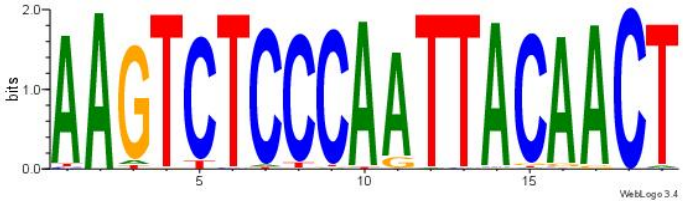

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.137918

Alignment:
CGCGGCGCTTGCGGGCCAGC
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

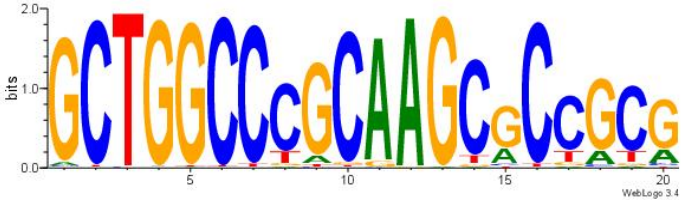

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

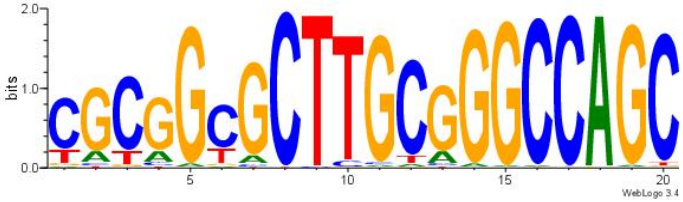

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.138525

Alignment:
ACCCAATWTGTAGTCTTTTA
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

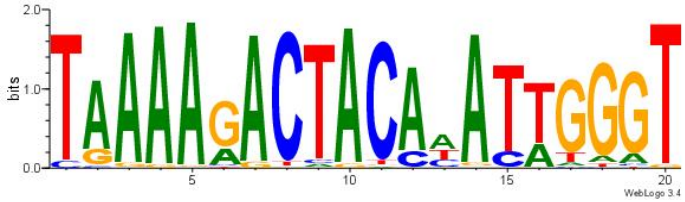

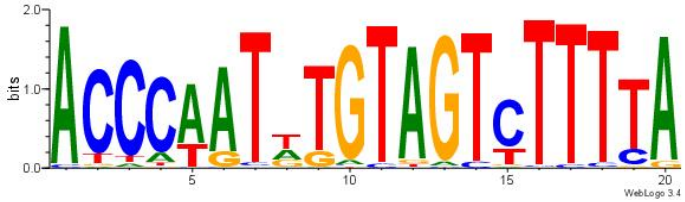

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.138805

Alignment:

```
AAGCAGGGCGAGGCATTGCC
AAAACCAGCAAGTTTTTAT-
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

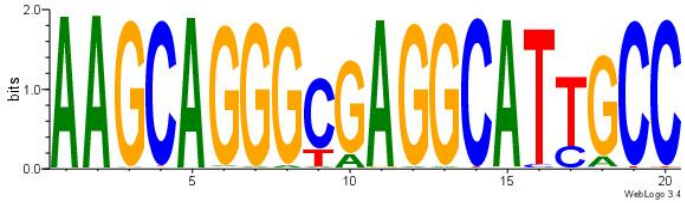

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

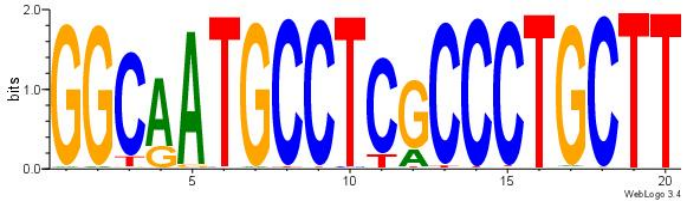

Dataset #: 1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139477

Alignment:

```
GAATACCTCCTGAAGGACCT
-ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

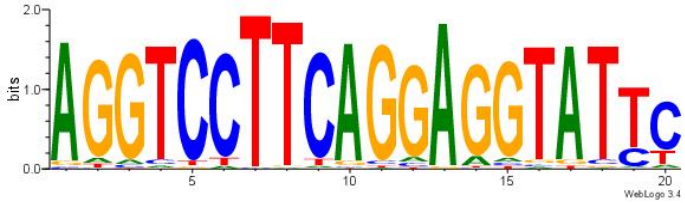

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

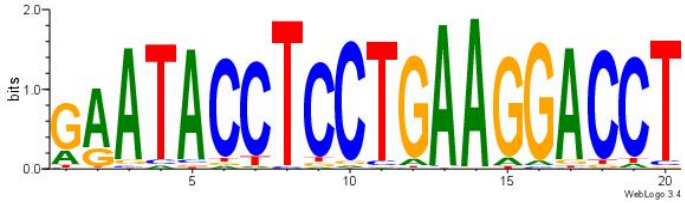

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.142085

Alignment:
TACCTGAGACTGGGTAATTT
-ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

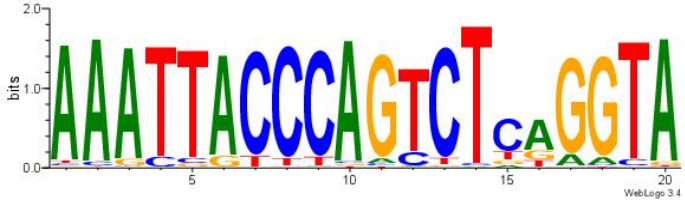

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

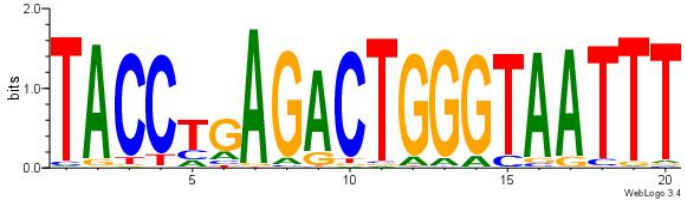

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.144133

Alignment:
GGAGCCGGCTCCCTCAGCTT
-AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

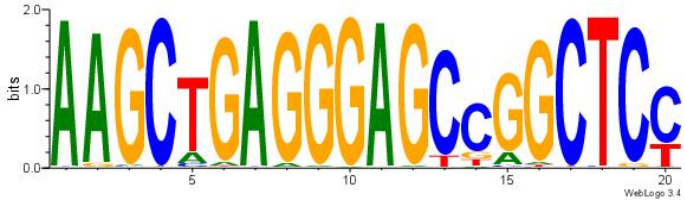

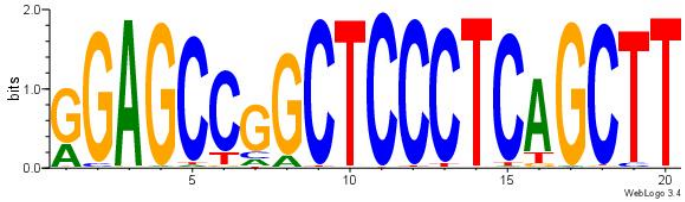

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.144332

Alignment:

```
TTCAMTCATGATTTGGCTCT
-AAAACCAGCAAGTTTTTAT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

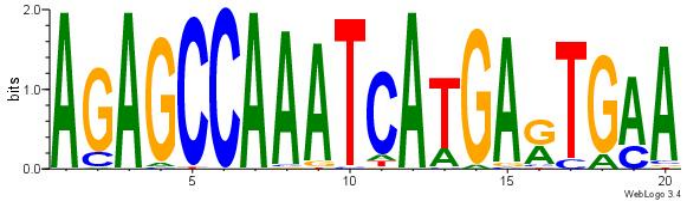

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

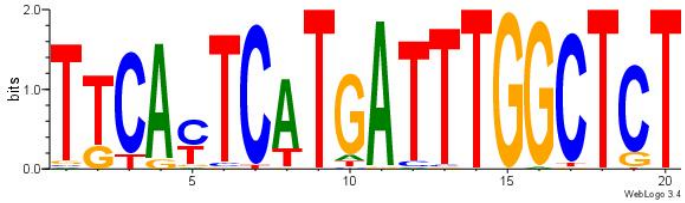

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.144742

Alignment:

```
GGATCCACTGGGTGAAGCCA
-ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

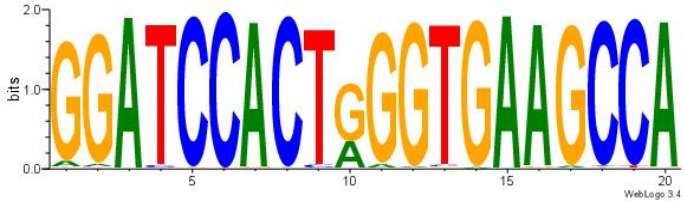

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

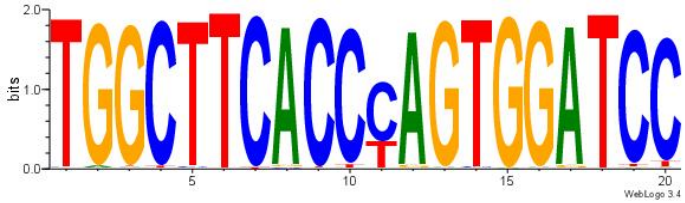

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.144832

Alignment:
ATGGAATAYTATTCAGCCAT
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

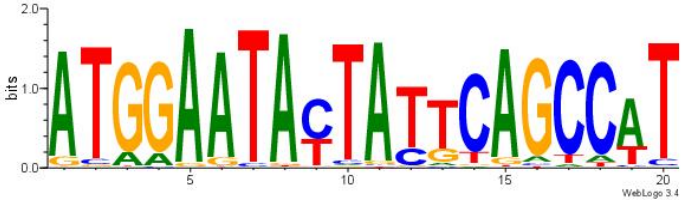

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

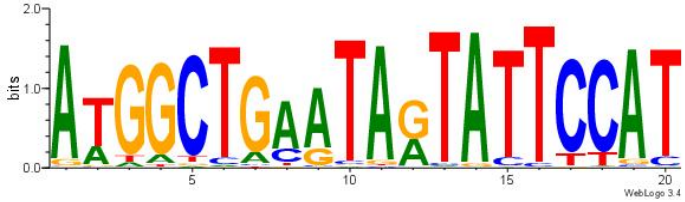

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.145693

Alignment:
KKCACCTTGATCTTGGACTT
-AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

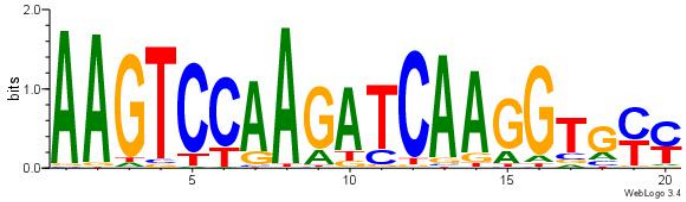

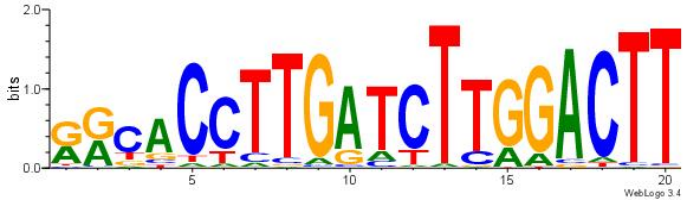

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145848

Alignment:

```
GAAGGCAGCTAAGGCCCGGY
AAAACCAGCAAGTTTTTAT-
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

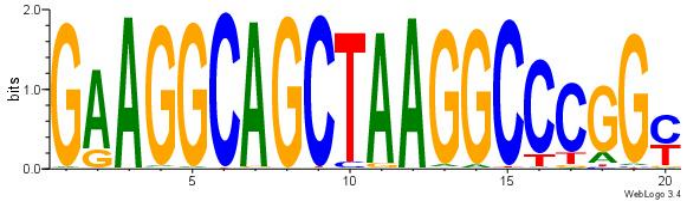

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

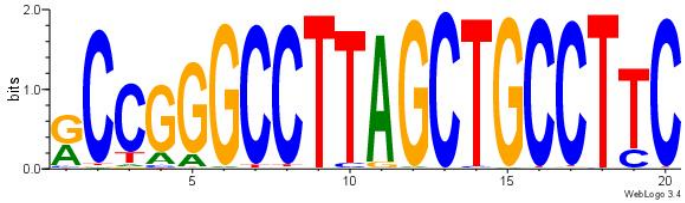

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.147678

Alignment:
CGCCCATCGTCTGGGATGT
ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

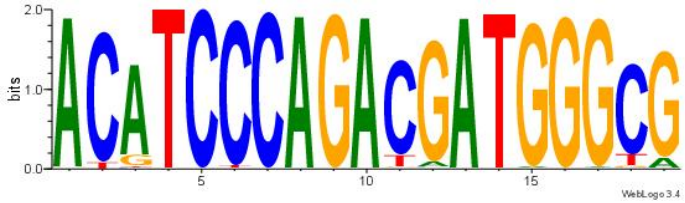

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

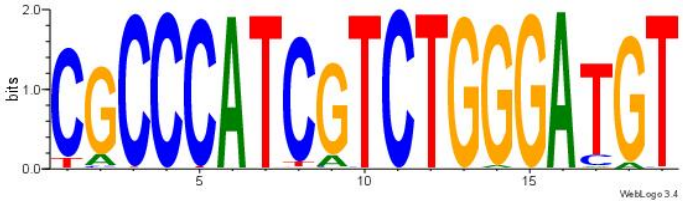

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.148318

Alignment:
VMATTTAKTGAGCACCTACT
-AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

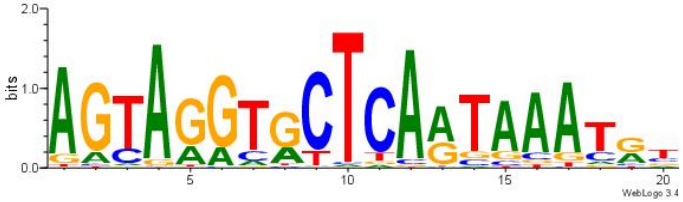

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

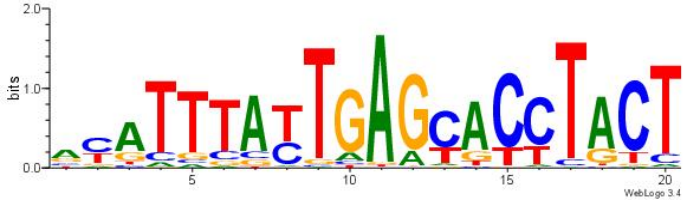

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.149094

Alignment:
GGTGGAGCTGCCTGCCAGTC
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

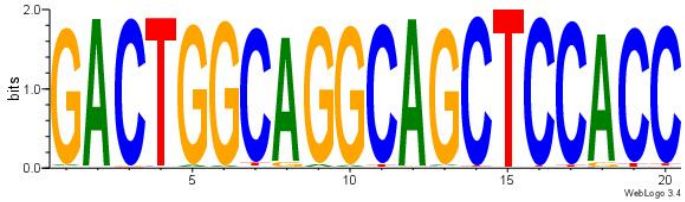

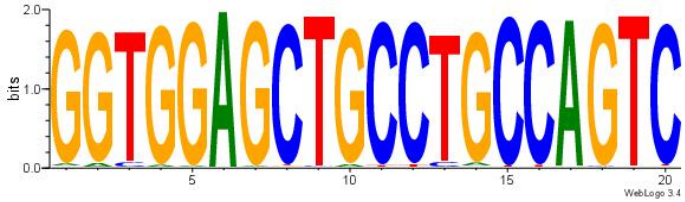

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.149902

Alignment:

```
AGCCYCTGGYAACCAYYAWT
AAAACCAGCAAGTTTTTAT-
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

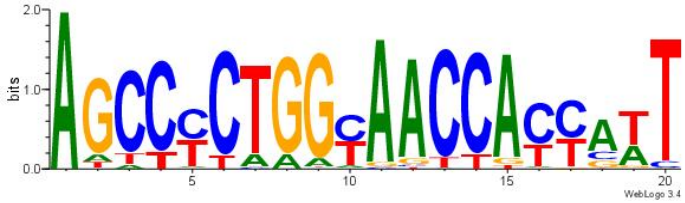

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

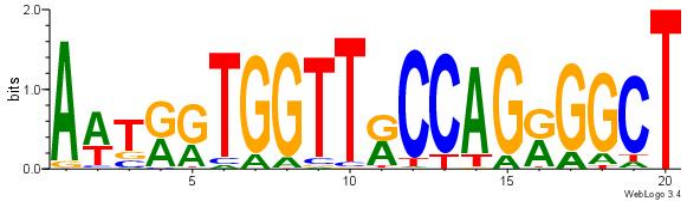

Dataset #: 1

Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.150341

Alignment:
GKCTGTACCCCCATTGTAT
AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

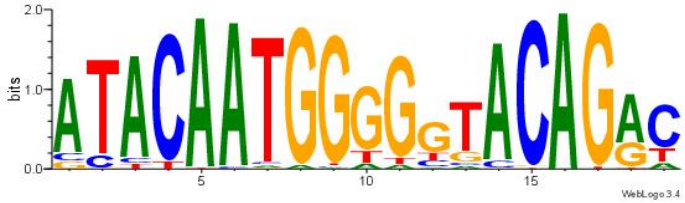

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

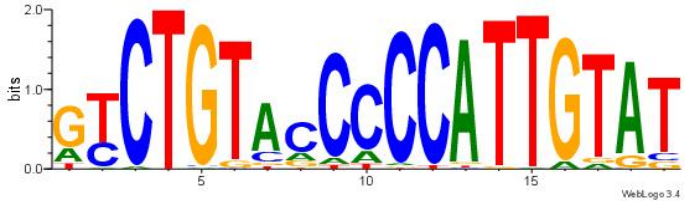

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.15055

Alignment:
CMTAGYACAGTGCCTGGCAC
-ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

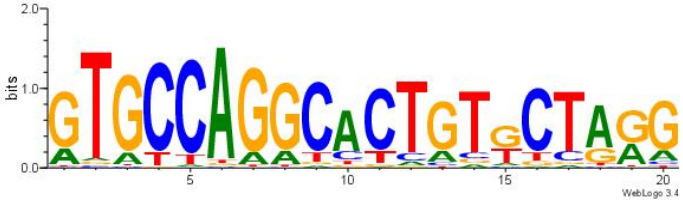

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

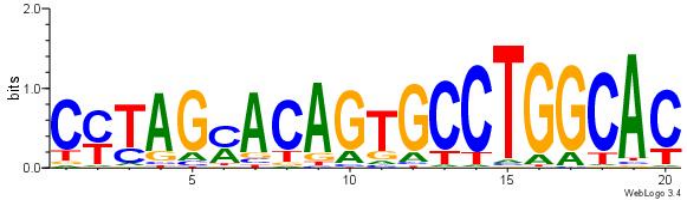

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.15134

Alignment:
MGGGATATAATCTCCTGGTG
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

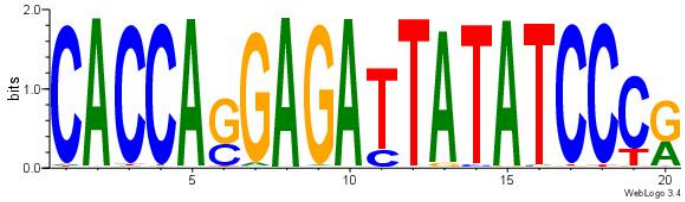

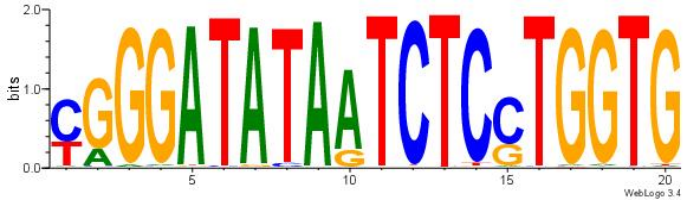

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.15206

Alignment:

```
GTGTCKGGAGTTTGTTCCTT
-AAAACCAGCAAGTTTTTAT
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

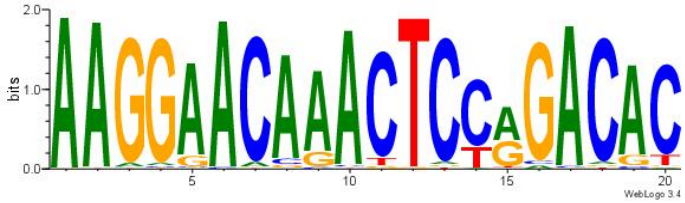

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

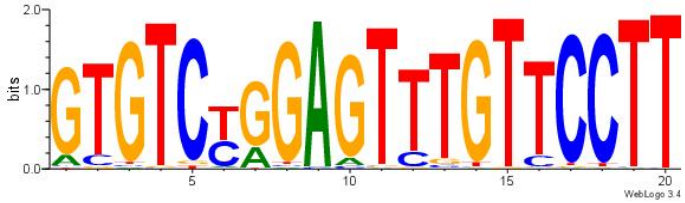

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.152689

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
ATAAAAACTTGCTGGTTTT-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

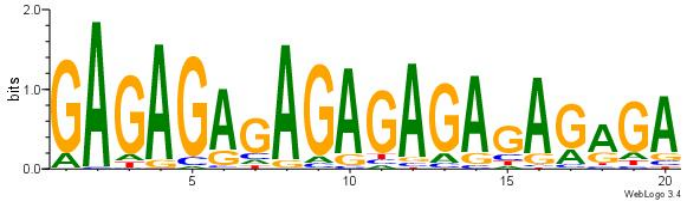

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

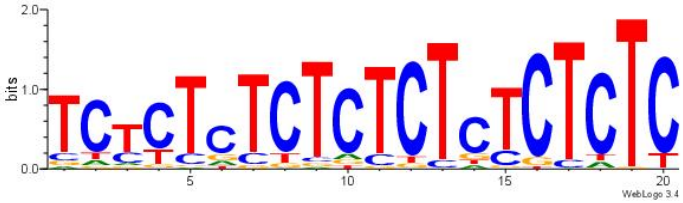

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.153017

Alignment:
CCTAGATTTCAGARGATGT
ATAAAAACTTGCTGGTTTT

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

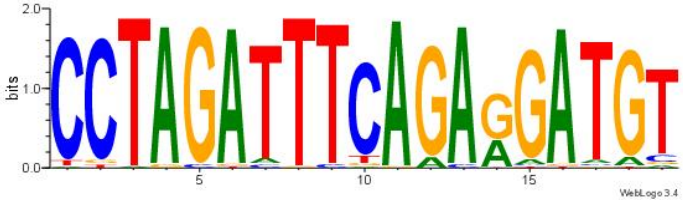

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

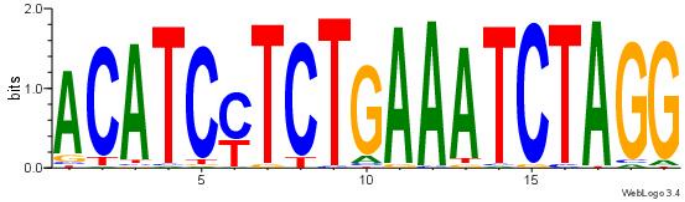

Dataset #: 1
Motif ID: 165
Motif name: Motif 165
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.153142

Alignment:
AGCTCMKCCTCCTGTCAGAT
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

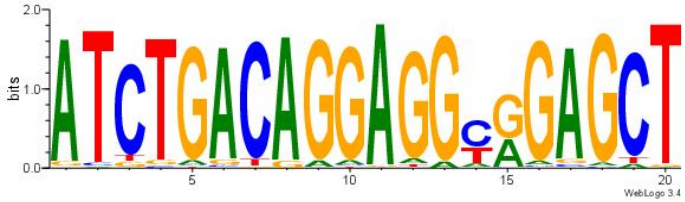

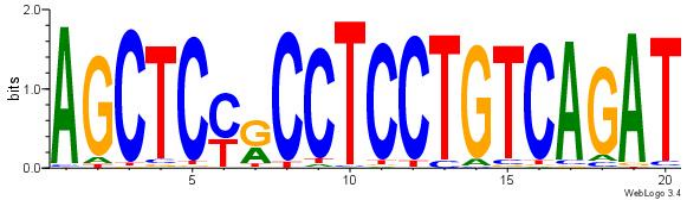

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.153506

Alignment:
ACCGAGMKMGCAGCTTCGGG
AAAACCAGCAAGTTTTTAT-

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

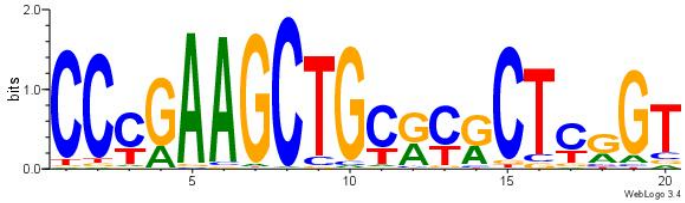

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

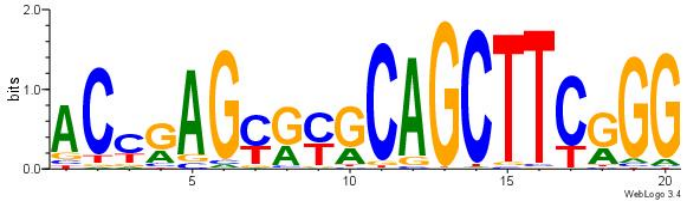

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.153662

Alignment:

```
TGAGKCAATTAAACCTCTT
ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

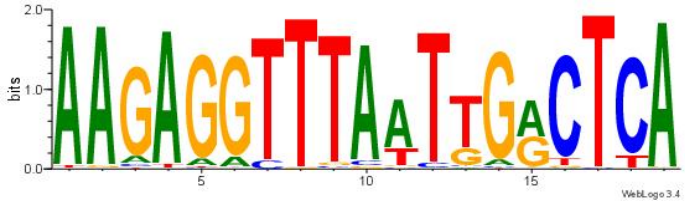

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

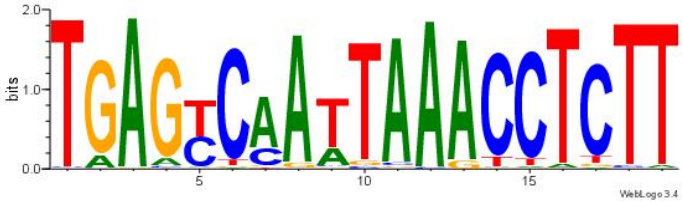

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.153877

Alignment:
ATGTAACCAAAYACCACCTG
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

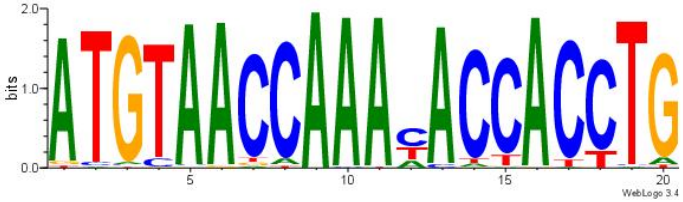

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

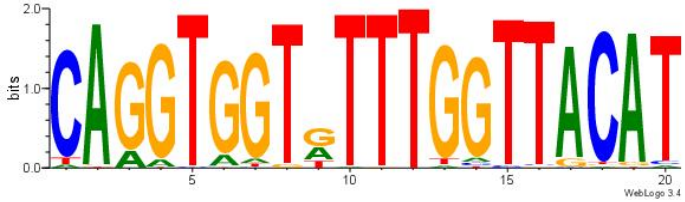

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.154379

Alignment:
CGTCGCTCACGCTGGGAGCT
ATAAAAACTTGCTGGTTTT-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

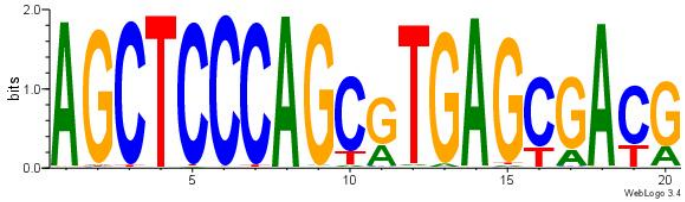

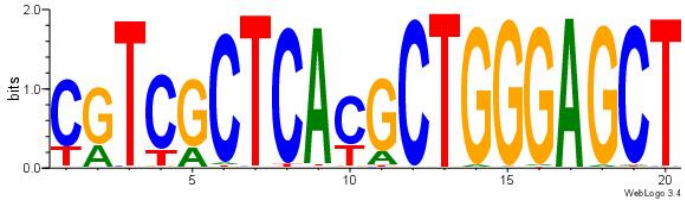

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.154904

Alignment:

```
ATTAGCYRGGCRTGGTGGC
ATAAAAACTTGCTGGTTTT
```

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

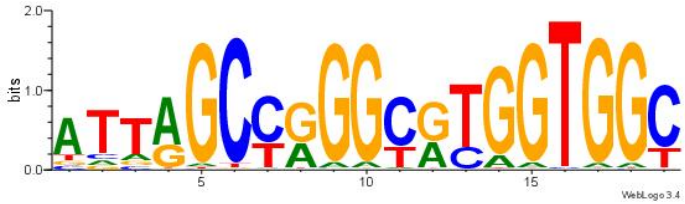

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

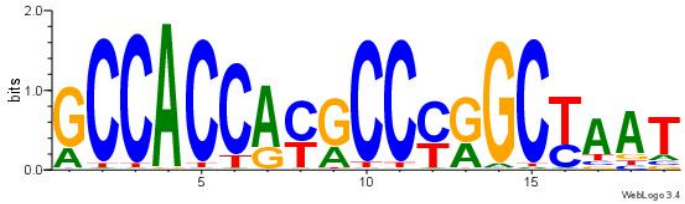

Dataset #:	1

Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.155182

Alignment:

```
TGTGTGTGTGTKTGTGTGT
AAAACCAGCAAGTTTTTAT
```

Original motif Consensus sequence: ACACACAYACACACACACA

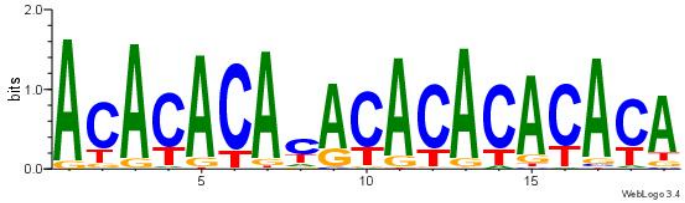

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

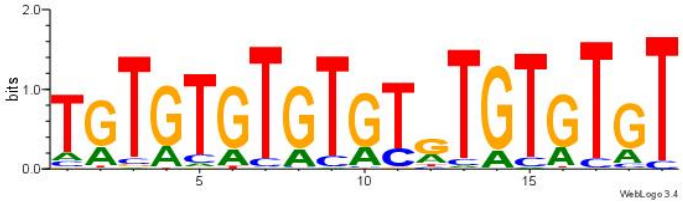

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.15528

Alignment:
CAAGCCTSKGCAATGGCAGG
-AAAACCAGCAAGTTTTTAT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

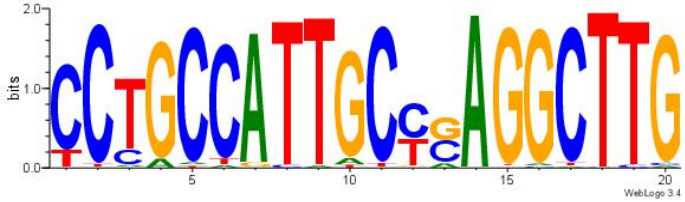

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

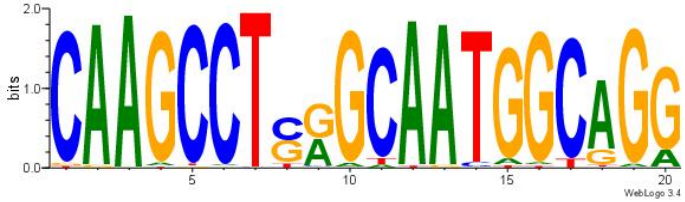

Dataset #: 1 Motif ID: 331 Motif name: Motif 331

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

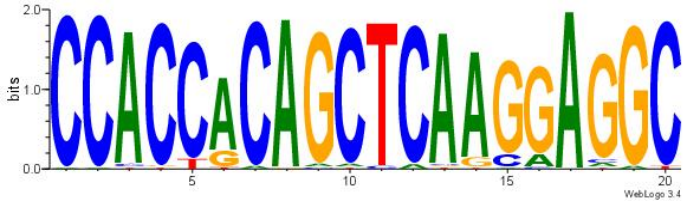

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

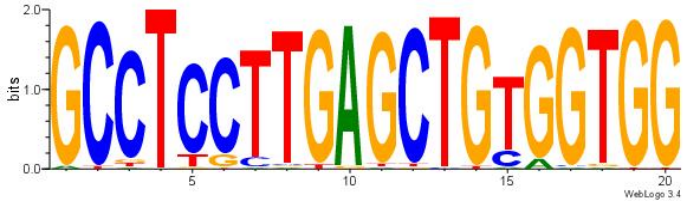

Best Matches for Motif ID 331 (Highest to Lowest)

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.112645

Alignment:

```
KKCACCTTGATCTTGGACTT
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

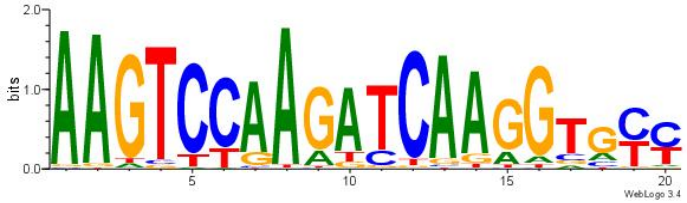

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

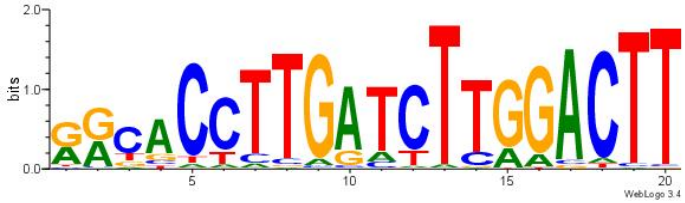

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115101

Alignment:

GCCKCCCCGTCCGGGAGGGA
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

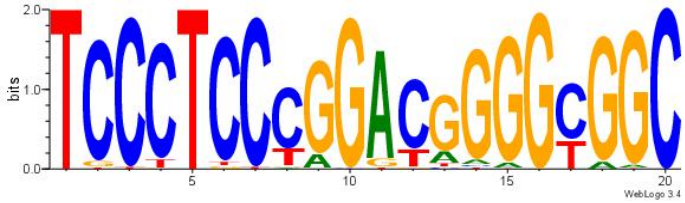

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

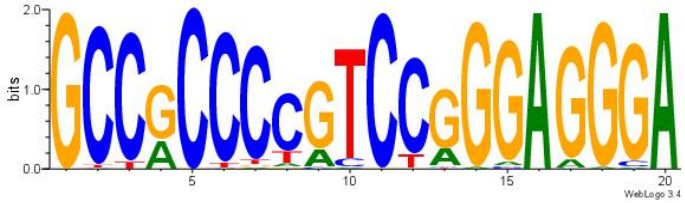

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.126303

Alignment:
ACTCCCTAGTGAGATGAACC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

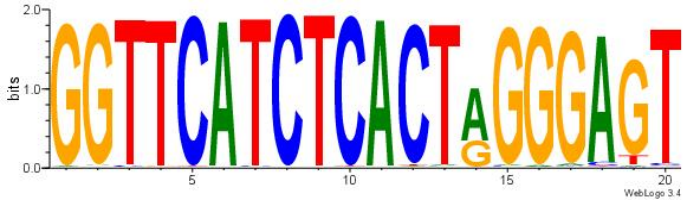

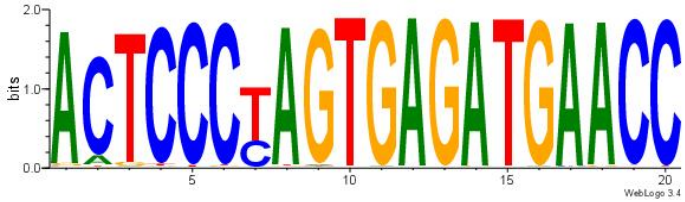

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127958

Alignment:
GAATACCTCCTGAAGGACCT
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

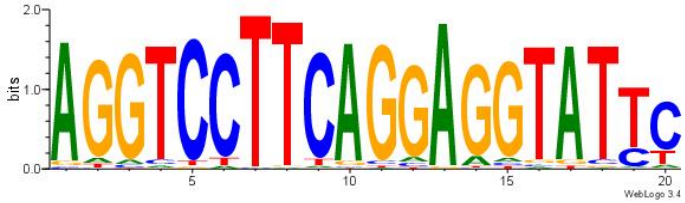

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

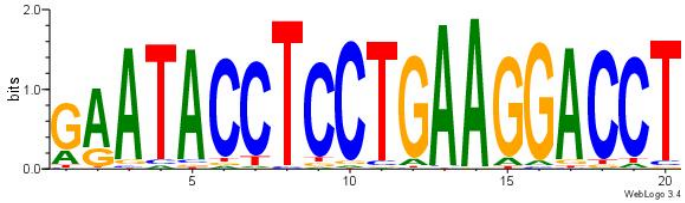

Dataset #:	1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132863

Alignment:

```
CCCATGCAAGTCYRAAATCC
CCACCACAGCTCAAGGAGGC
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

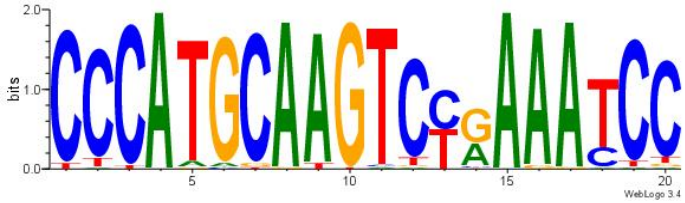

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

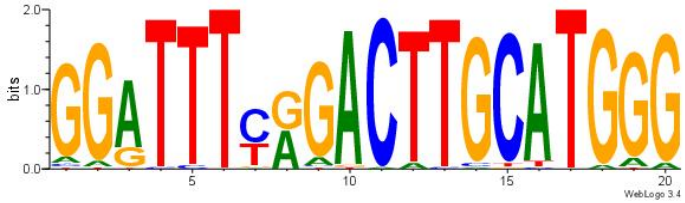

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.137837

Alignment:
GTAACACTCACCGCGARGGT
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

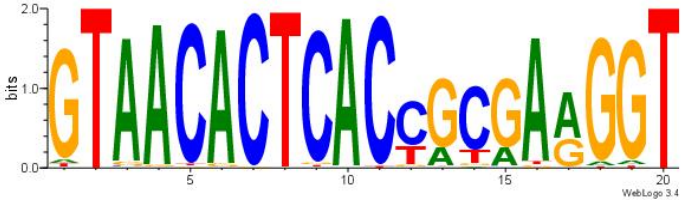

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

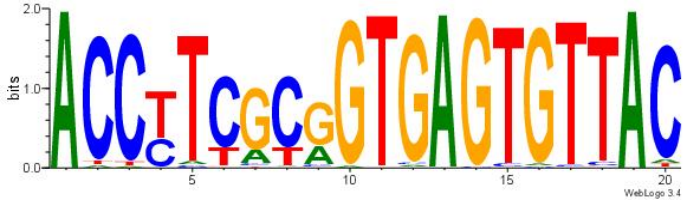

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.138809

Alignment:
TCKMGCCACTGCACTCCAGC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

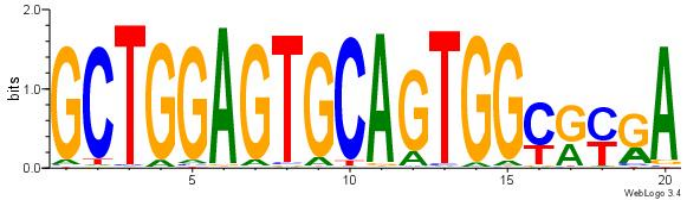

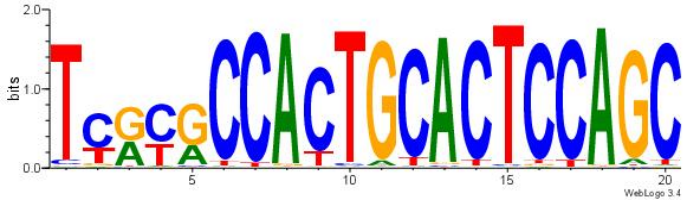

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.139874

Alignment:
TGGCTTCACCCAGTGGATCC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

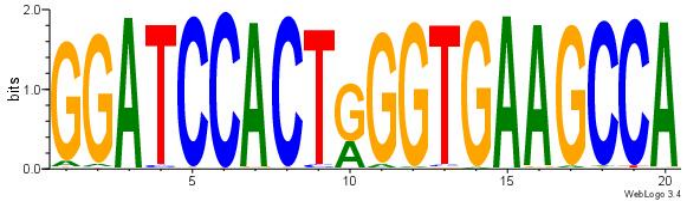

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

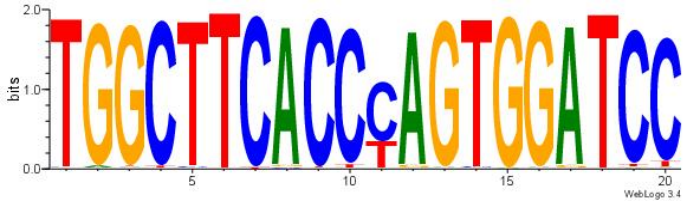

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.141219

Alignment:
GCGCTCKTCGGGGAGGCTCG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

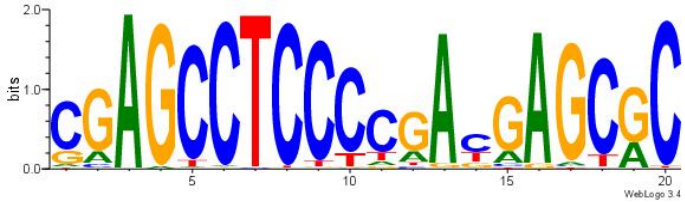

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

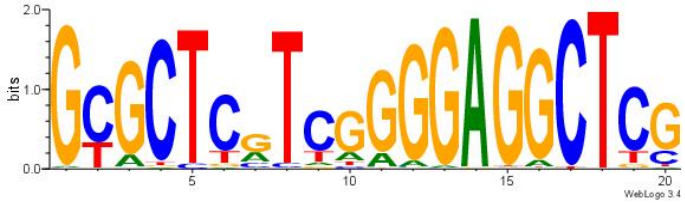

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.142028

Alignment:
GCCAATTTCTCCCATTTGGA
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

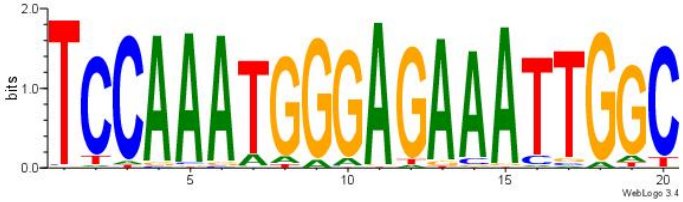

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

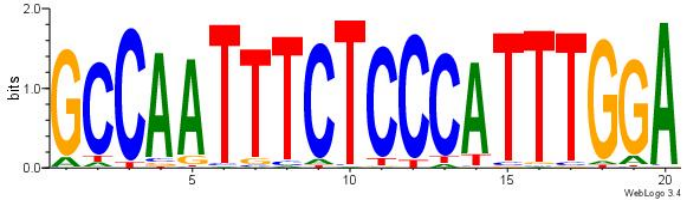

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142251

Alignment:
AAGTTCTKGGKTACATGTGC
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

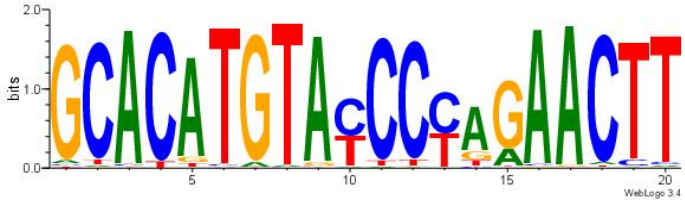

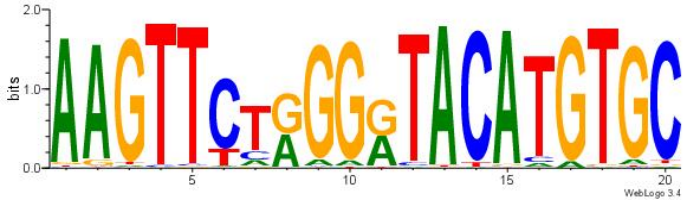

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142463

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

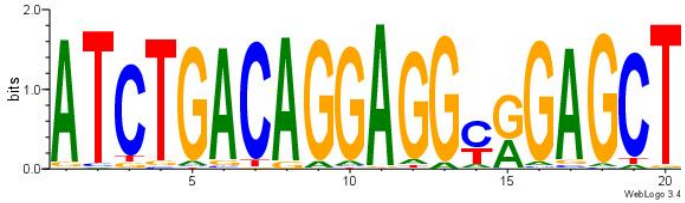

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

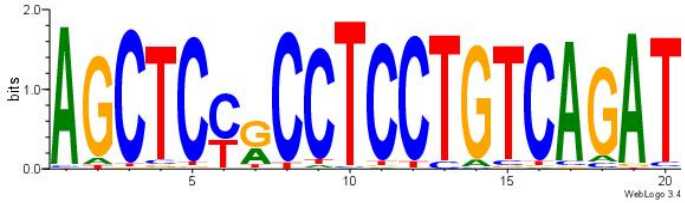

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143761

Alignment:
GAAAGGGAACTCCCTGACCC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

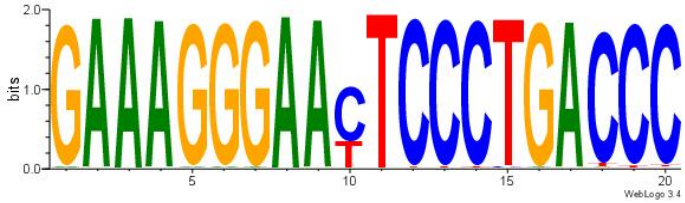

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

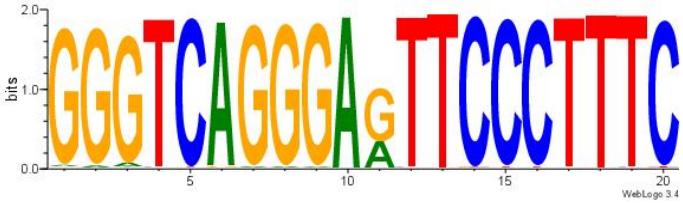

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144742

Alignment:
CAAGCCTSKGCAATGGCAGG
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

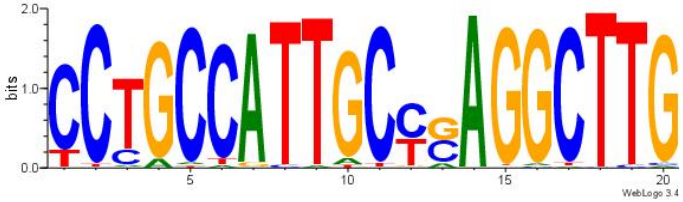

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

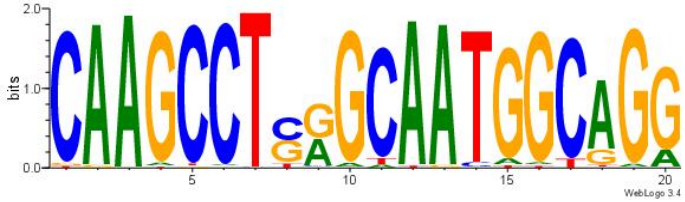

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145967

Alignment:
CATTCTGGGGTCTGGAGGAY
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

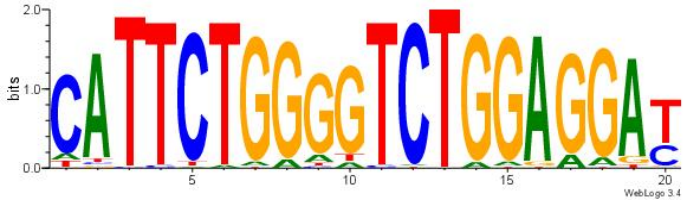

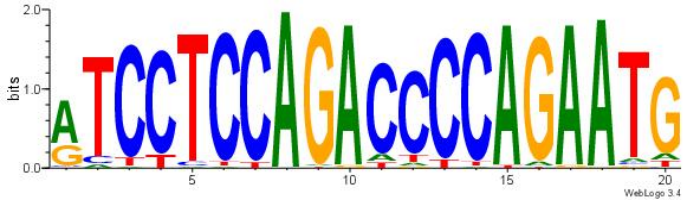

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1466

Alignment:
AAGCTCGAACTGGGTGGAGC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

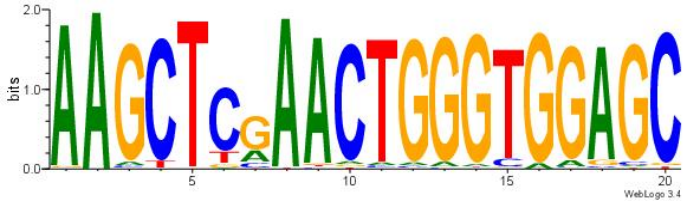

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

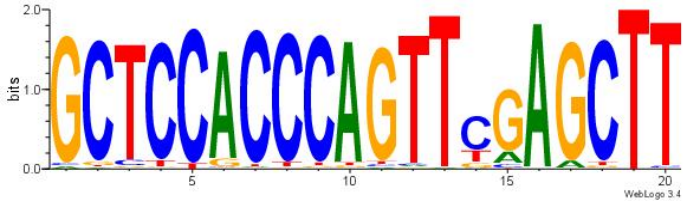

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147921

Alignment:

```
CCGCTGCACTGTGGGAGCCC
CCACCACAGCTCAAGGAGGC
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

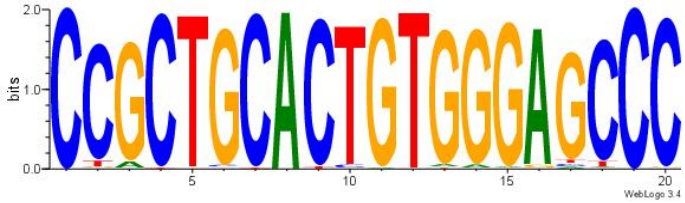

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

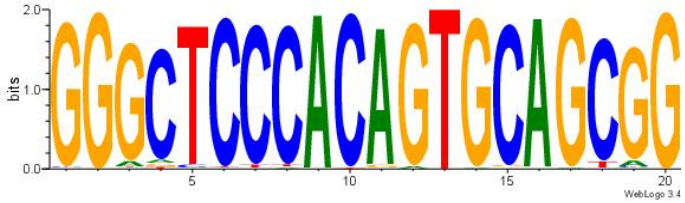

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.148075

Alignment:
GCCKGGMKCMGTGGCTCAKG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

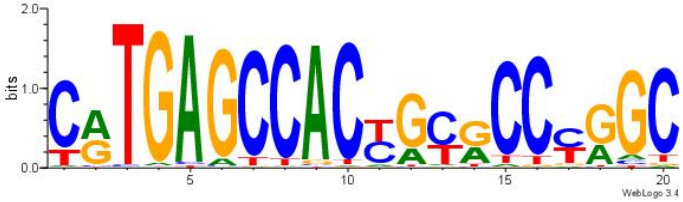

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

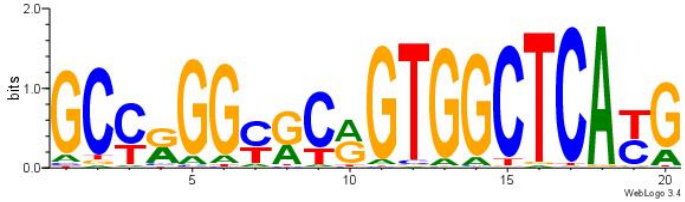

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148209

Alignment:
AGCTCCCAGCGTGAGCGACG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

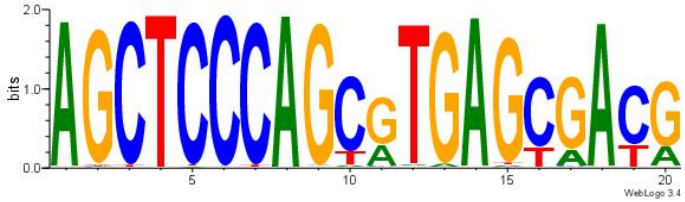

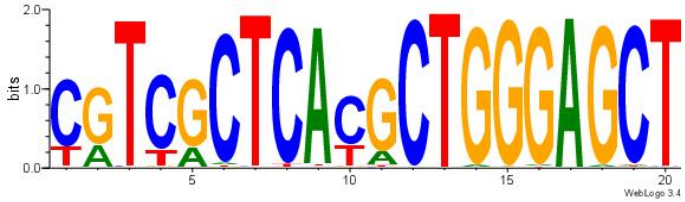

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148421

Alignment:
GAAACTGCTTTGTGATGTGT
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

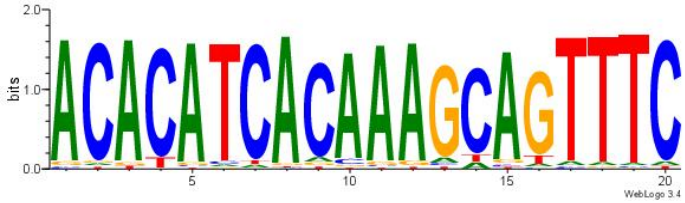

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

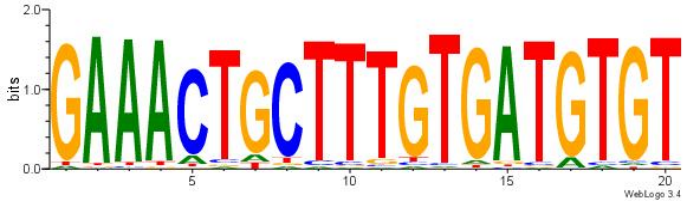

Dataset #: 1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149046

Alignment:

ARCTCCTGKSCTCAAGKGAT

GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

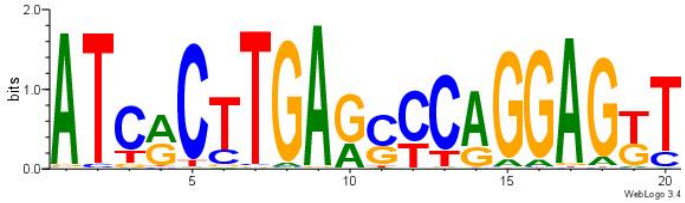

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

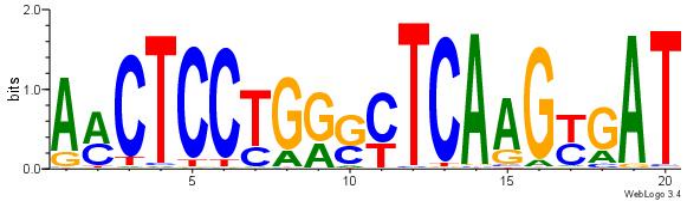

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.149939

Alignment:
TTGTCCCACTGGAAGGTCTT
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

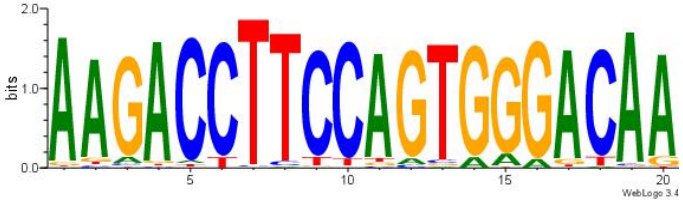

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

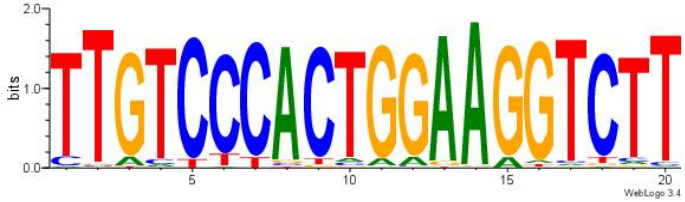

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.150267

Alignment:
AACAACASACACTGGGGCCT
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

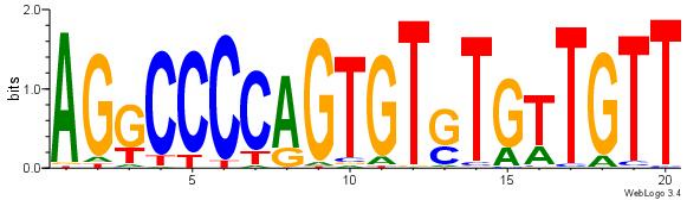

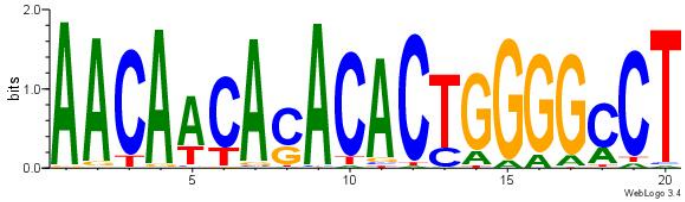

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.151147

Alignment:
CTTGCCCAAGGTCACACAGC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

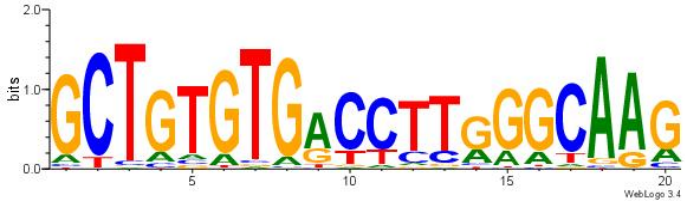

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

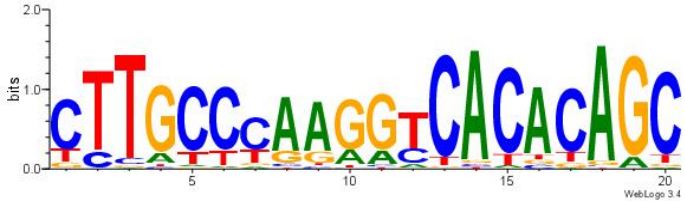

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154278

Alignment:
GAGAGAGAGAGAGAGAGAGA
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

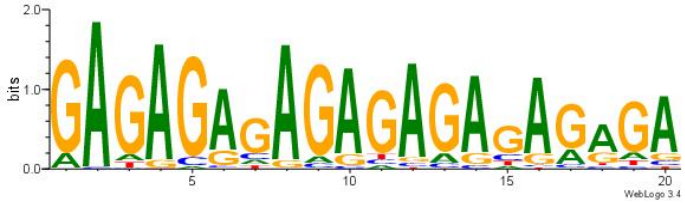

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

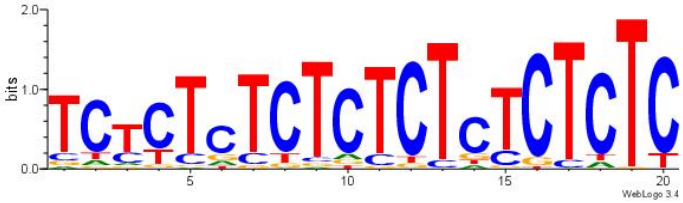

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.15461

Alignment:
GCCTCTCCCTCCACACCTCC
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

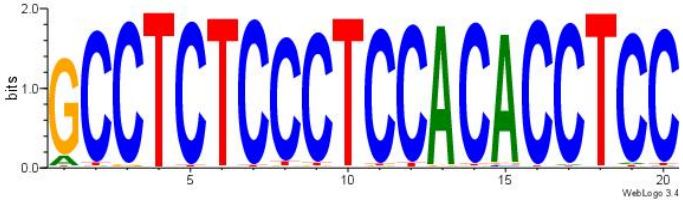

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

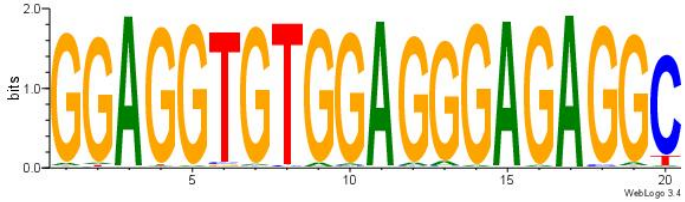

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158618

Alignment:
AAGGAACAAACTCCRGACAC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

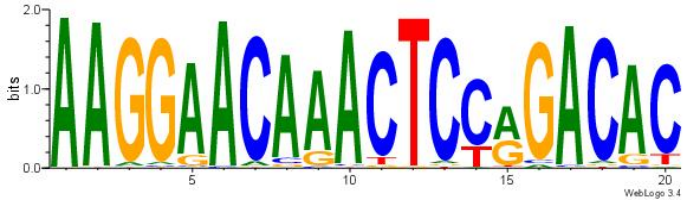

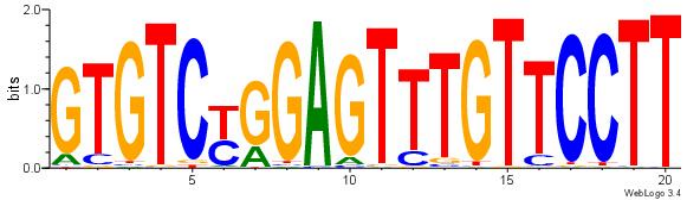

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160767

Alignment:
MGGGATATAATCTCCTGGTG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

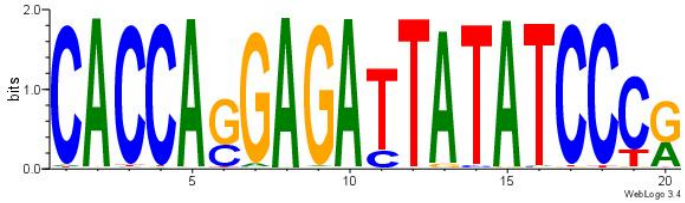

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

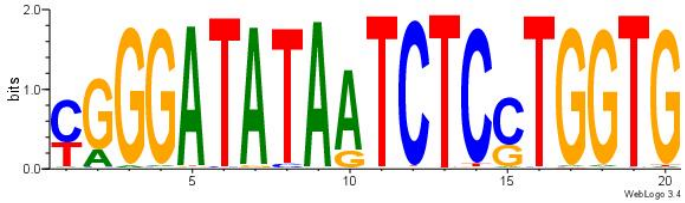

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.161554

Alignment:
AAAATGTGGTAYATAYAYAC
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

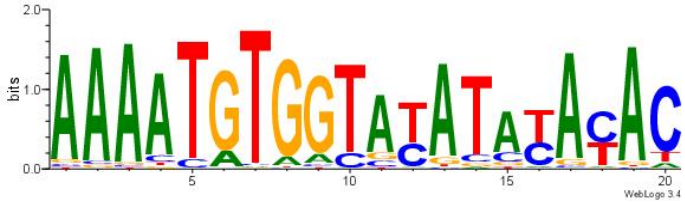

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

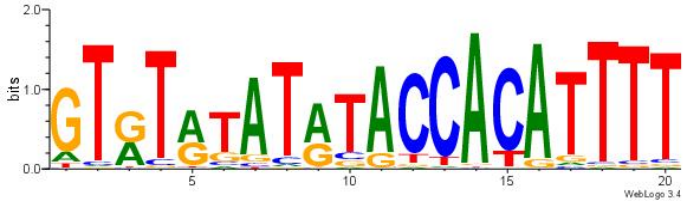

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.161574

Alignment:
CGCGGCGCTTGCGGGCCAGC
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

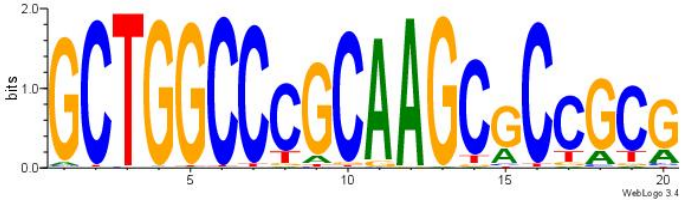

Reverse complement motif Consensus sequence:
CGCGGCGCTTGCGGGCCAGC

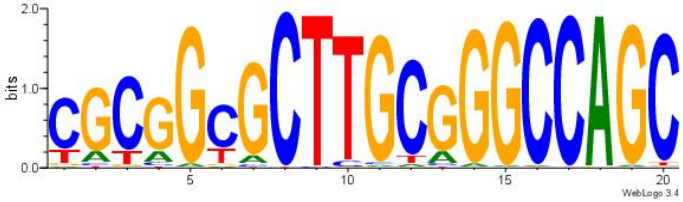

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162193

Alignment:
AGTGACCCGATTTTCCAGGT
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

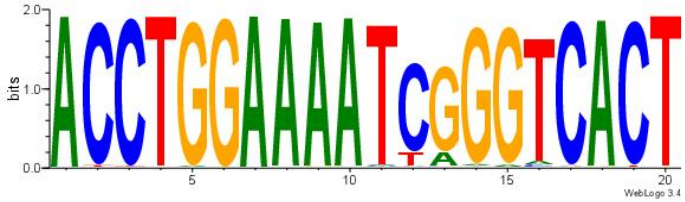

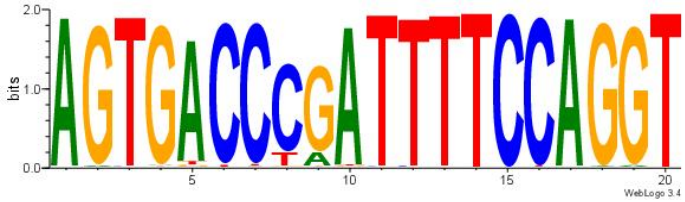

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162434

Alignment:

```
CAAGGGTATAYGAGTAGCTG
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

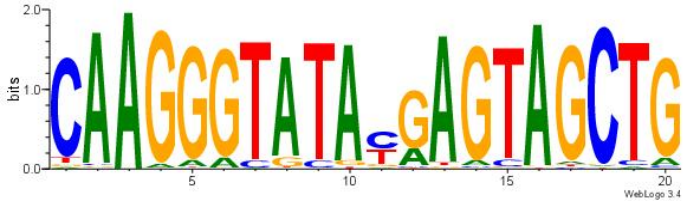

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

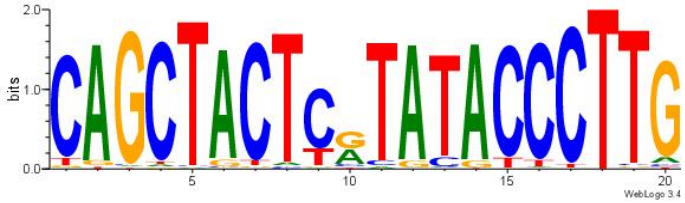

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.162442

Alignment:

```
AATGAKATCATGTCYTTTGC
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

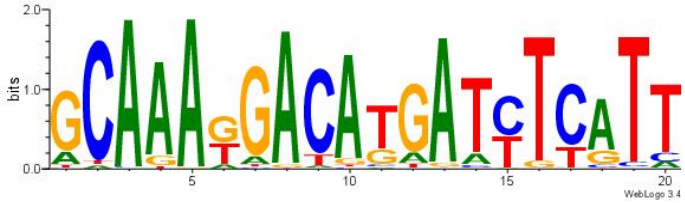

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

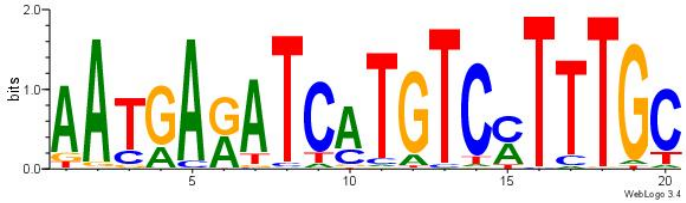

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.163593

Alignment:
GTGGCCCTCTTCTCACAGCT
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

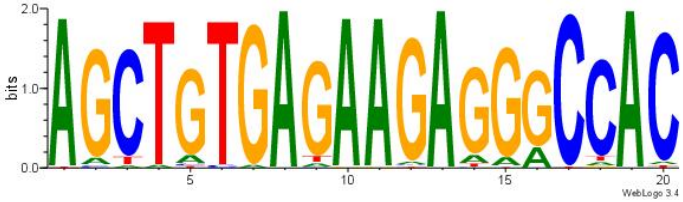

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

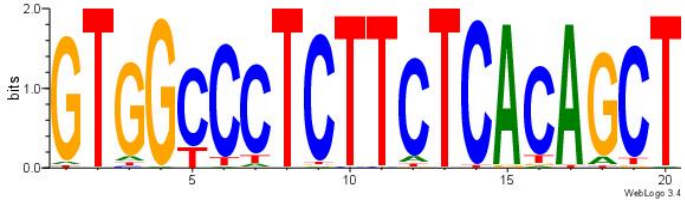

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.163724

Alignment:
ACCGAGMKMGCAGCTTCGGG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

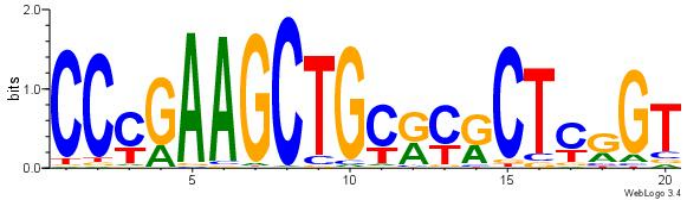

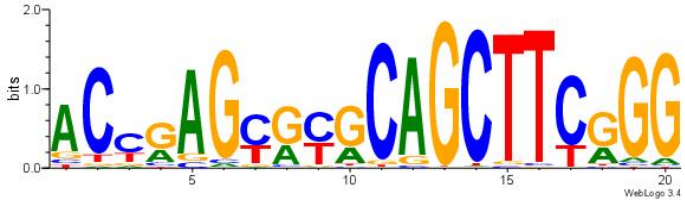

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.164739

Alignment:
GTTTAACCATTGAGGGCCAG
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

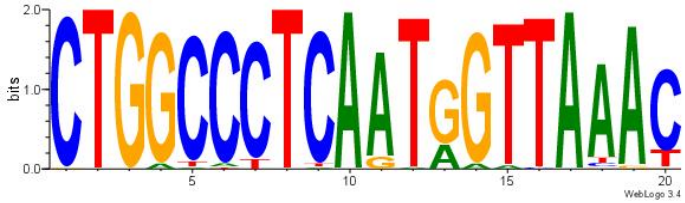

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

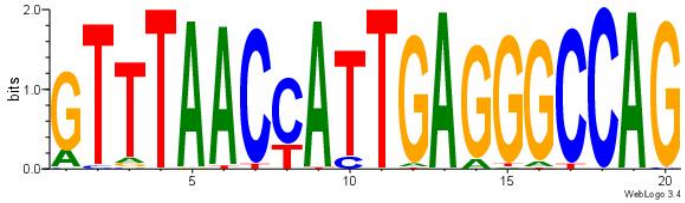

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.165037

Alignment:

```
HAGTGGKATTGCTGGATCAT
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

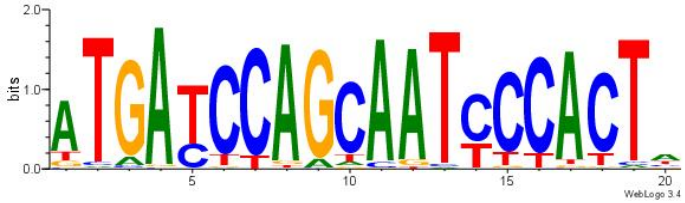

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

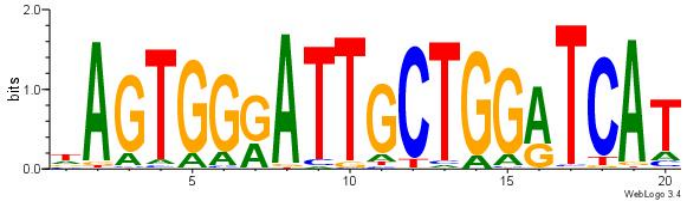

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.165384

Alignment:
AAAATCACAAGCATTCCTAT
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

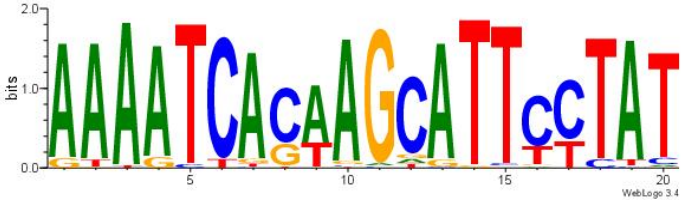

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

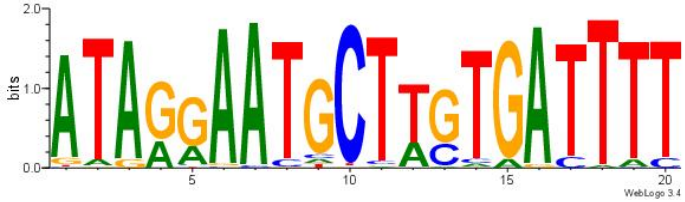

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.165492

Alignment:
GCCAGTCACAAAARGACAMA
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

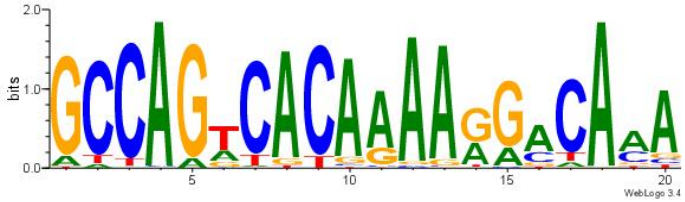

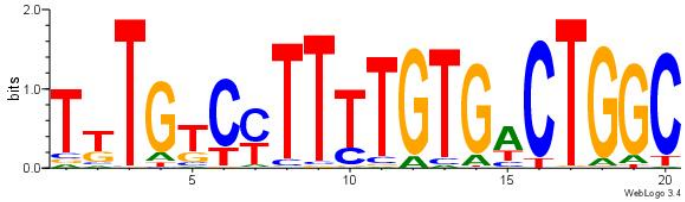

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165634

Alignment:
CTCCAGKTMCATCCATGTTG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

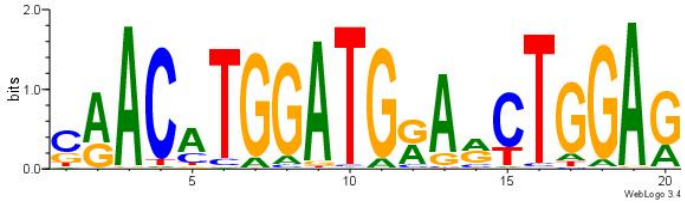

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

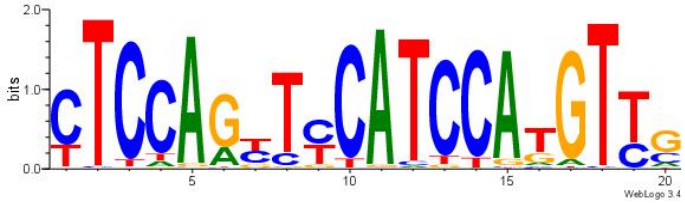

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.165797

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

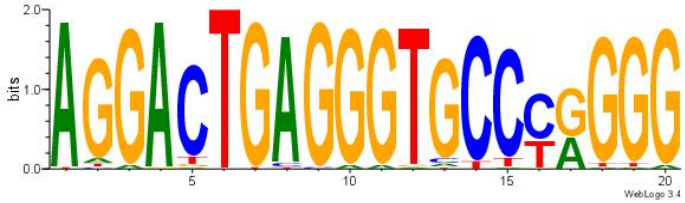

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

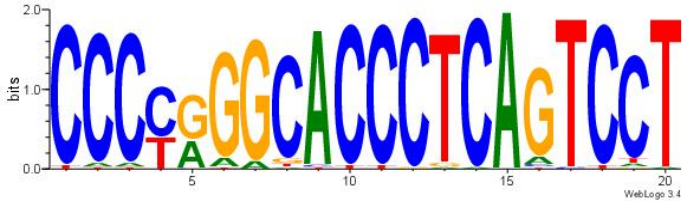

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.166599

Alignment:
TGCTGGAGGTCCACTCCAGA
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

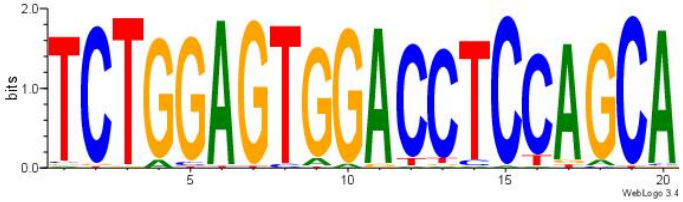

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

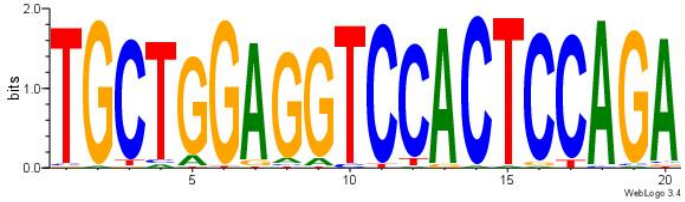

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.167257

Alignment:
GTCTCWAMAAAAAAWAMAAA
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

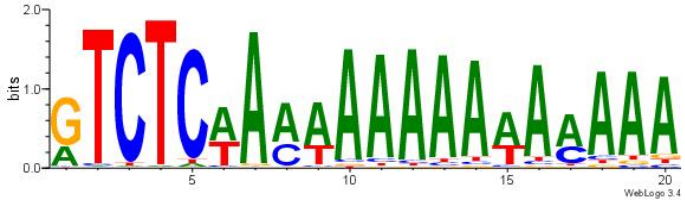

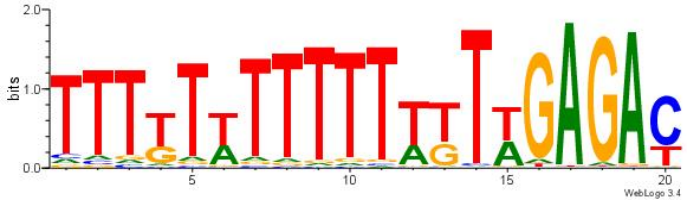

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.167433

Alignment:
GGCACTGCTGGGGGACCCAG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

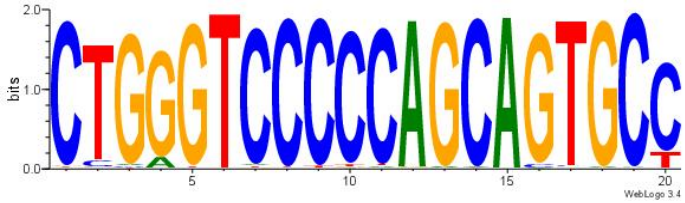

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

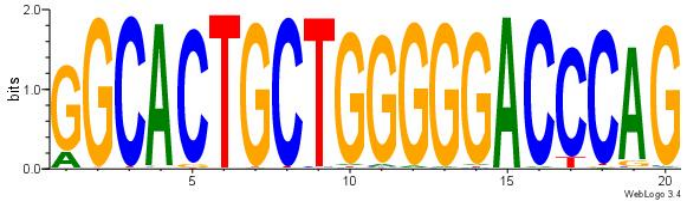

Dataset #: 1

Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167494

Alignment:
TWTACCTATGTAACAAACCT
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

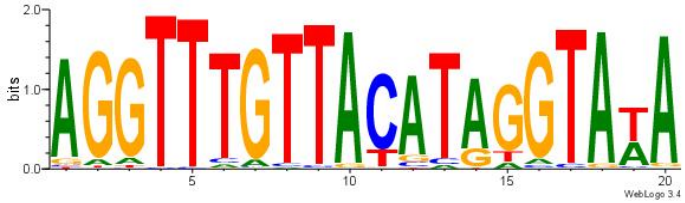

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

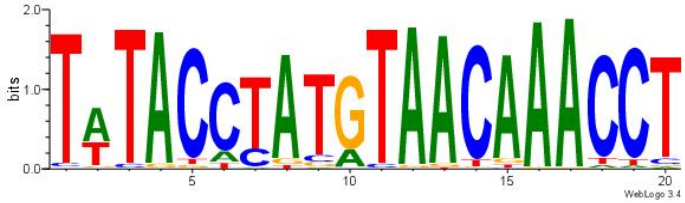

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.168085

Alignment:
CAAGTTGACACATAAAATTA
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

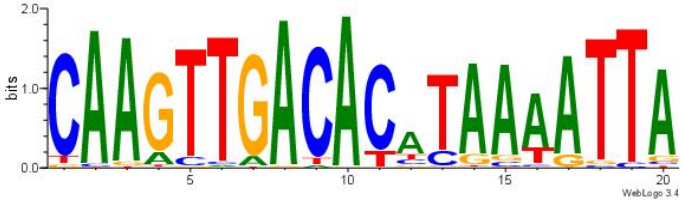

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

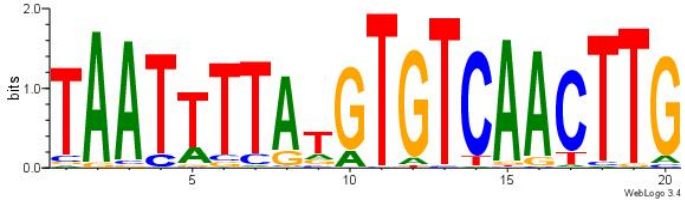

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.169669

Alignment:
GGGAGGTGTCTCCCAGTCAG
GCCTCCTTGAGCTGTGGTGG

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

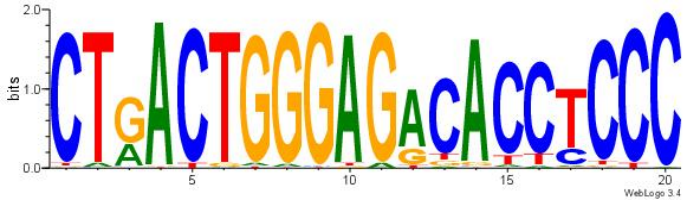

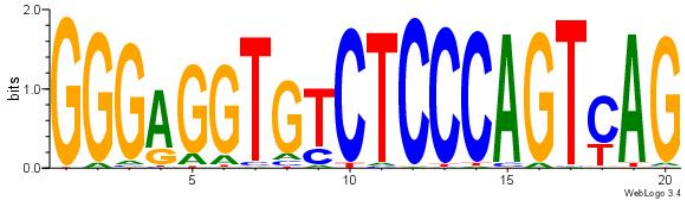

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.169905

Alignment:
GTGCCAGGCACTGTKCTARG
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

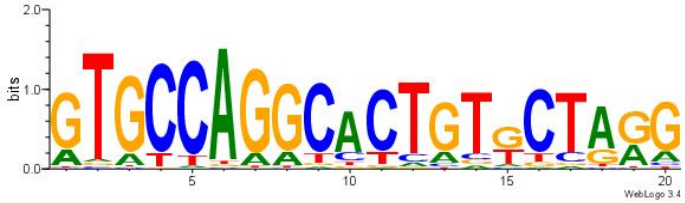

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

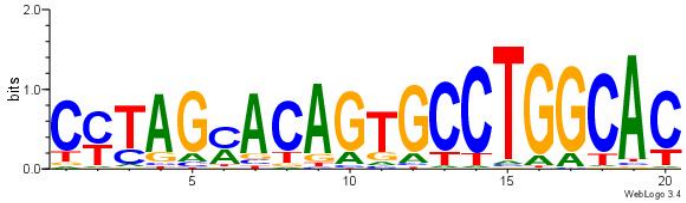

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.170047

Alignment:

```
ACTGTCTTCCACCTCCACAT
GCCTCCTTGAGCTGTGGTGG
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

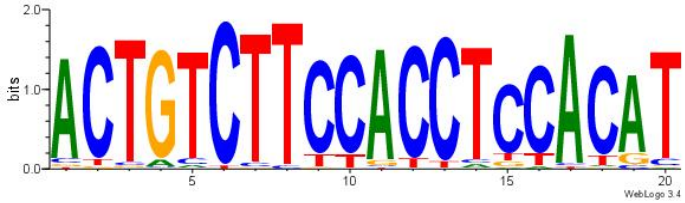

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

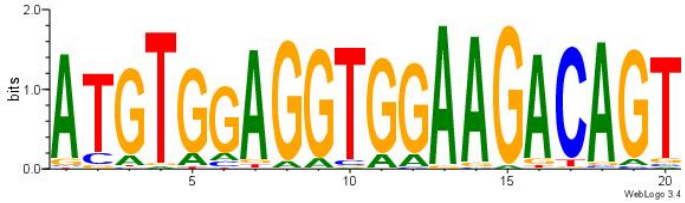

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.171407

Alignment:
CTCCTGCCTCAGCCTCCCRA
CCACCACAGCTCAAGGAGGC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

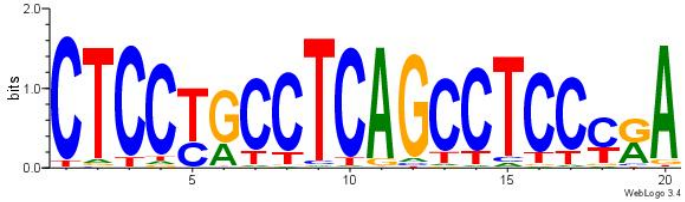

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

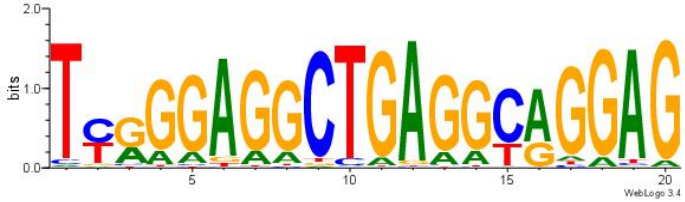

Dataset #: 1 Motif ID: 332 Motif name: Motif 332

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

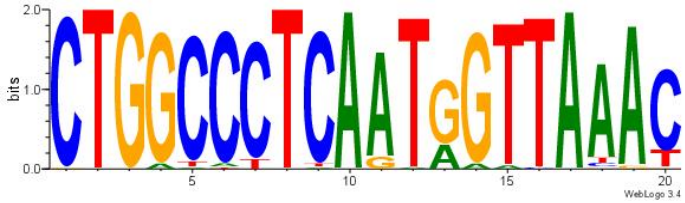

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

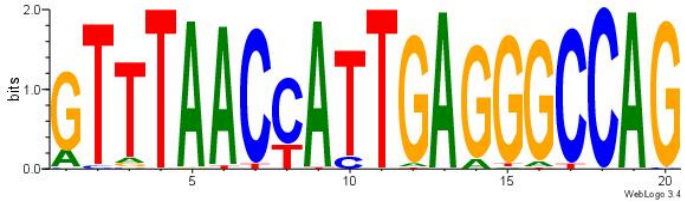

Best Matches for Motif ID 332 (Highest to Lowest)

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.102201

Alignment:

```
CAGGTGGTKTTTGGTTACAT
CTGGCCCTCAATGGTTAAAC
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

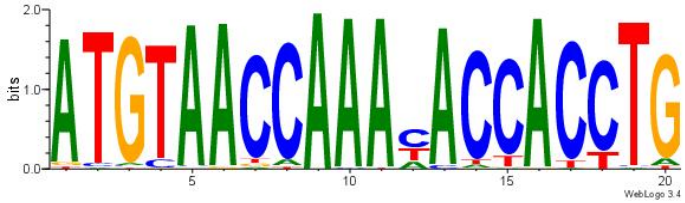

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

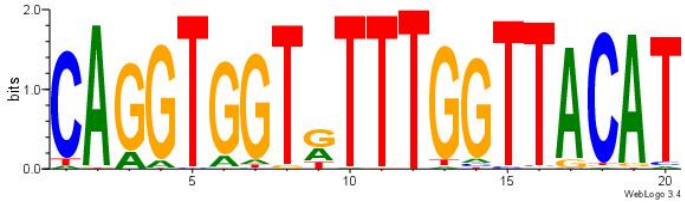

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106854

Alignment:

AGGTCCTTCAGGAGGTATTC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

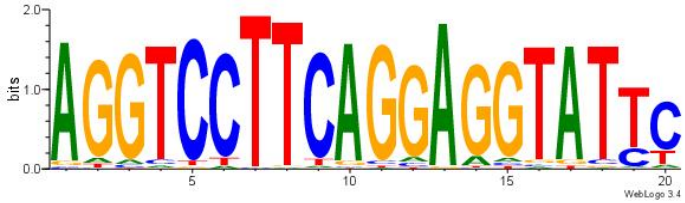

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

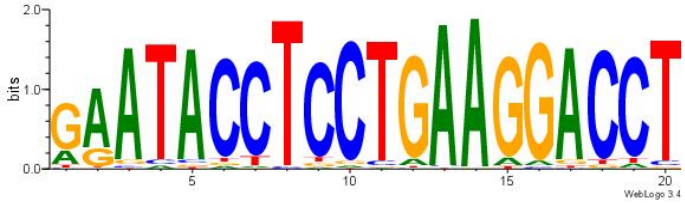

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.115252

Alignment:
AATCAACCCTGGYRATCAAT
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

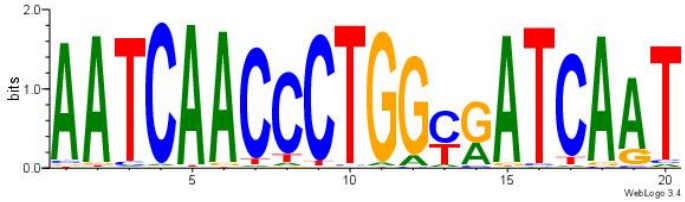

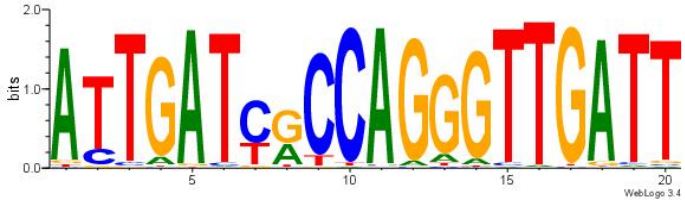

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115516

Alignment:

```
TTGTCCCACTGGAAGGTCTT
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

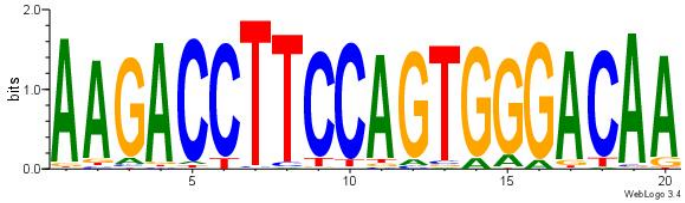

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

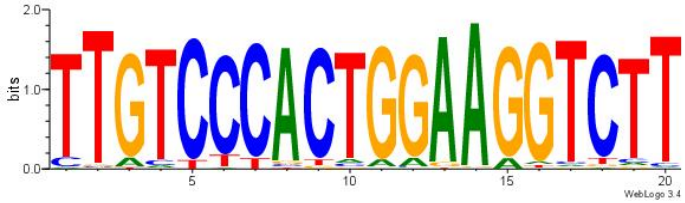

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.117502

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

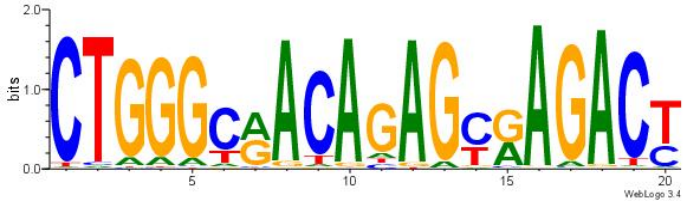

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

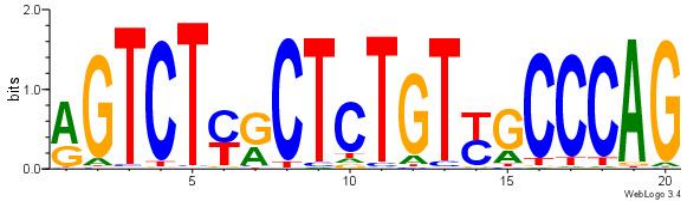

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.117983

Alignment:
TGGAGAACCTTTATGTCTAG
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

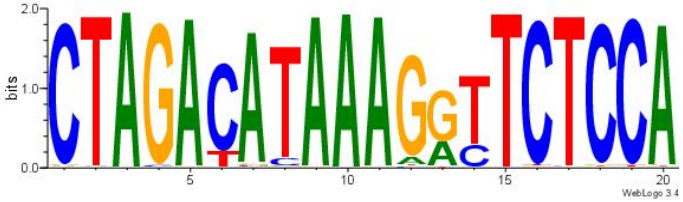

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

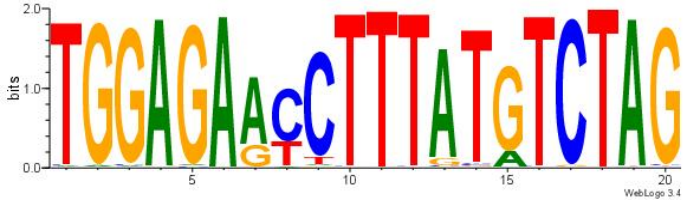

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.12071

Alignment:
GTGGCCCTCTTCTCACAGCT
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

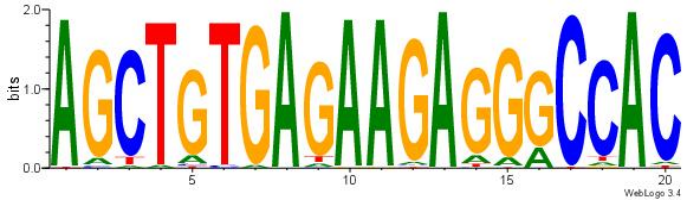

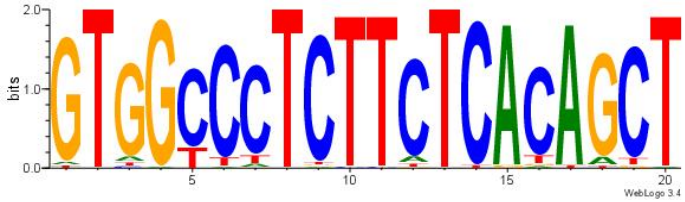

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127352

Alignment:

```
ATGGAATAYTATTCAGCCAT
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

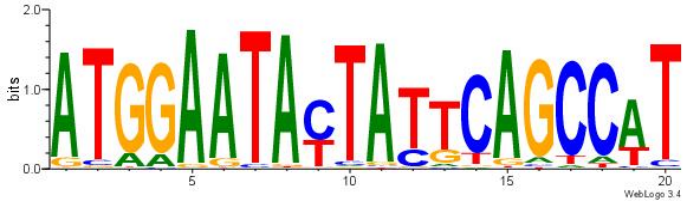

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

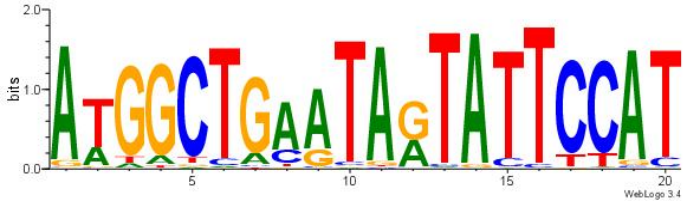

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.128129

Alignment:
GAAHCAACCKAAKTGTCCAT
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

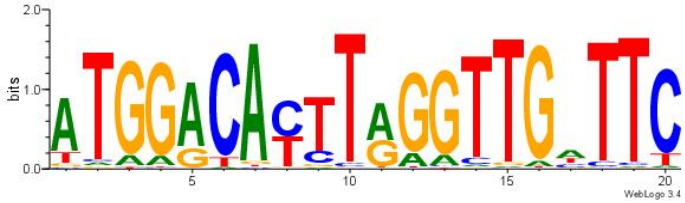

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

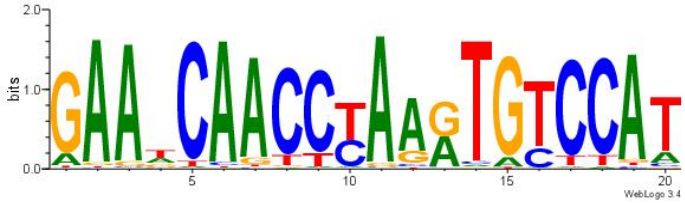

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.130156

Alignment:
GTGTCKGGAGTTTGTTCCTT
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

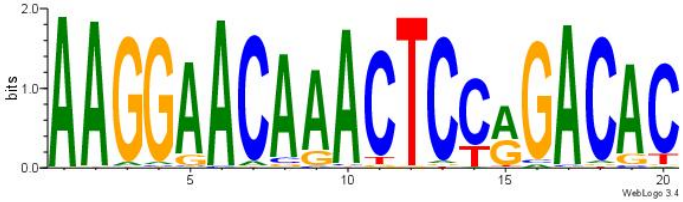

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

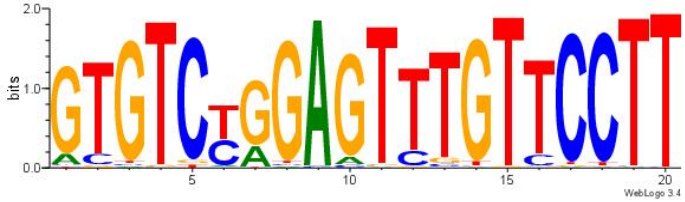

Dataset #: 1
Motif ID: 112
Motif name: Motif 112
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132055

Alignment:
CTTGCCCAAGGTCACACAGC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

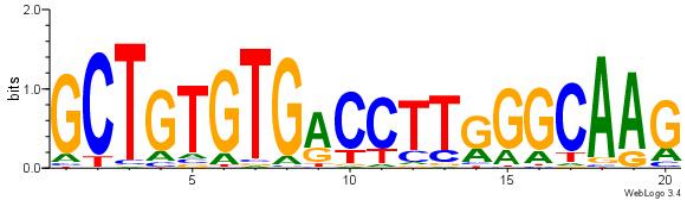

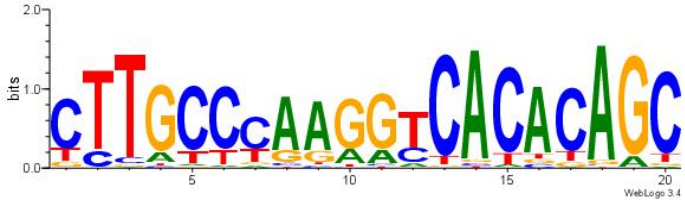

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132186

Alignment:

```
GTAACACTCACCGCGARGGT
CTGGCCCTCAATGGTTAAAC
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

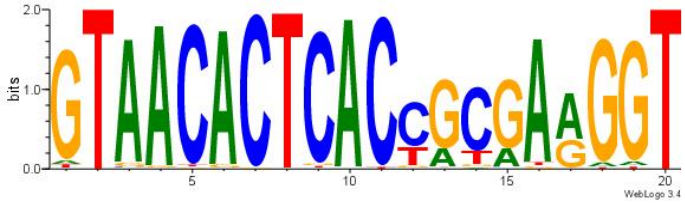

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

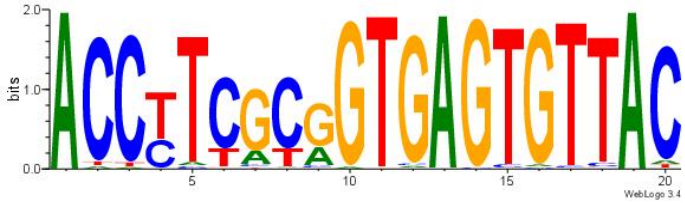

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133163

Alignment:
GTGCCAGGCACTGTKCTARG
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

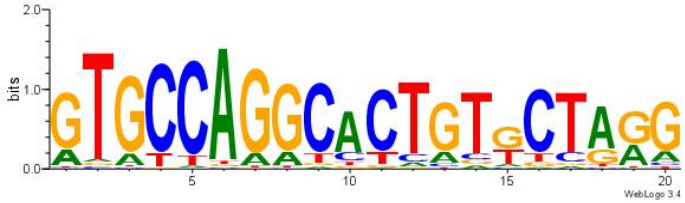

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

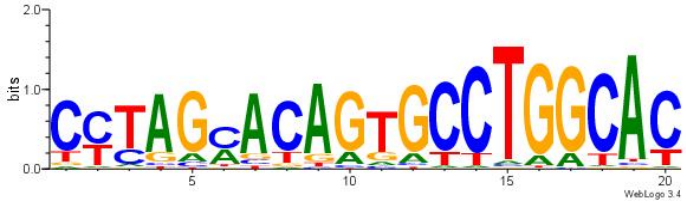

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.134307

Alignment:
CTGGGCTCCTGAGTCTGGTG
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

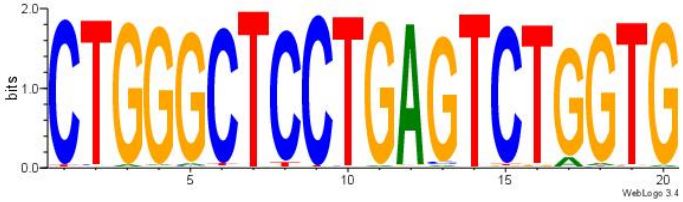

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

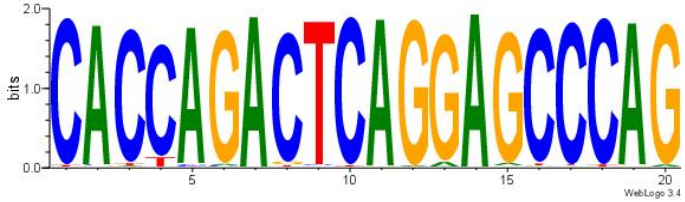

Dataset #: 1
Motif ID: 56
Motif name: Motif 56
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.136893

Alignment:
CRTGAGCCACYGYRCCYGGC
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

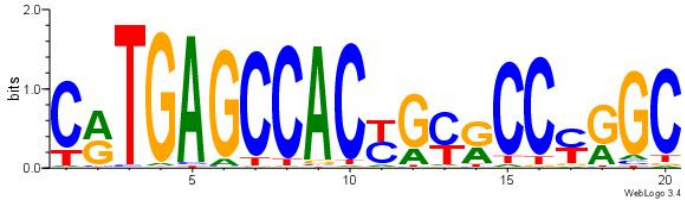

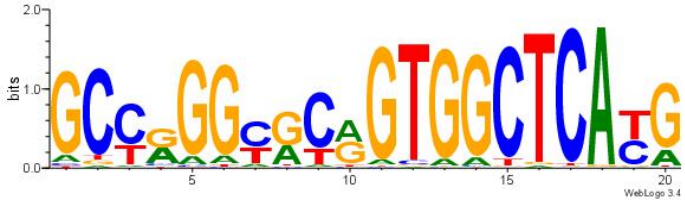

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137551

Alignment:

```
GGCACTGCTGGGGGACCCAG
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

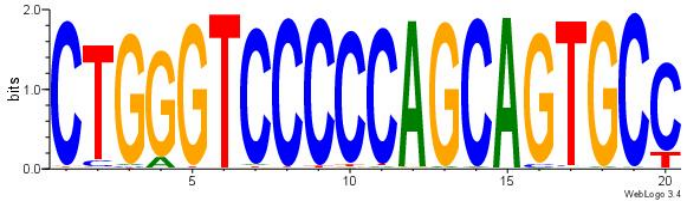

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

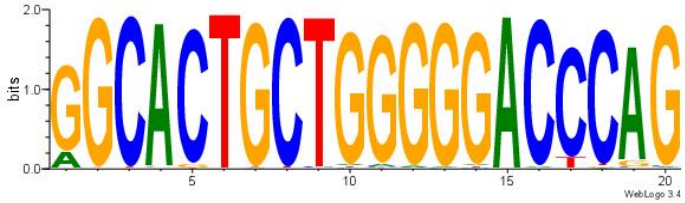

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138007

Alignment:
CCGCTGCACTGTGGGAGCCC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

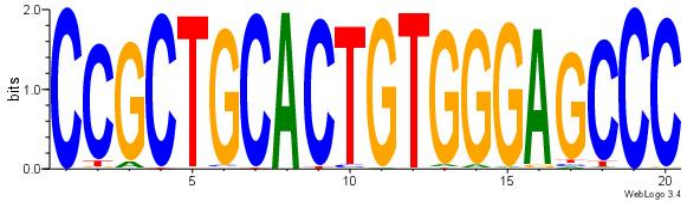

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

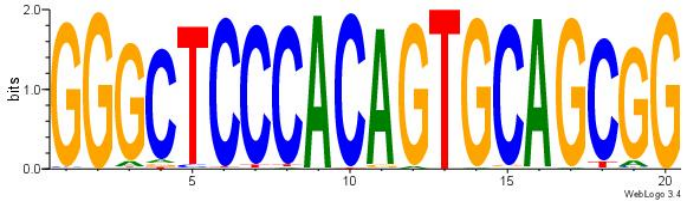

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139054

Alignment:
ACTGTCTTCCACCTCCACAT
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

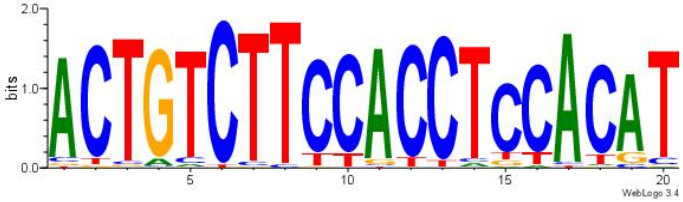

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

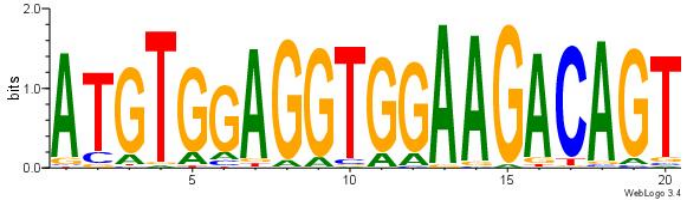

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.142317

Alignment:
GTCTCWAMAAAAAAWAMAAA
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

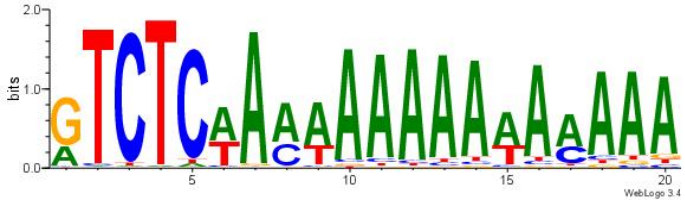

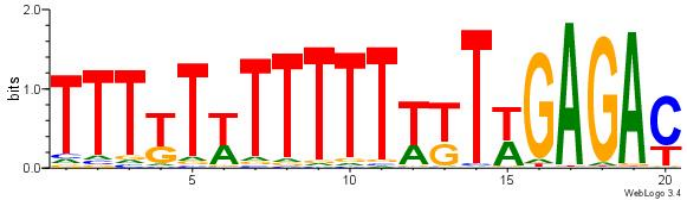

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143618

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
CTGGCCCTCAATGGTTAAAC
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

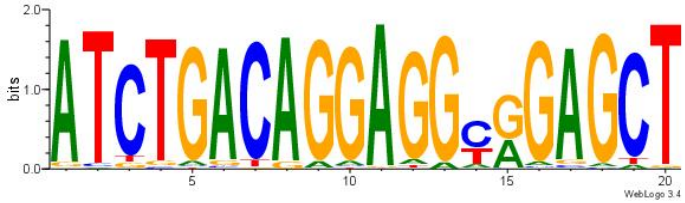

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

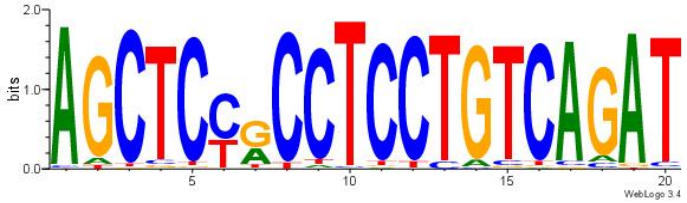

Dataset #: 1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144168

Alignment:

```
ATTGGTGTATTTACAATCCC
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

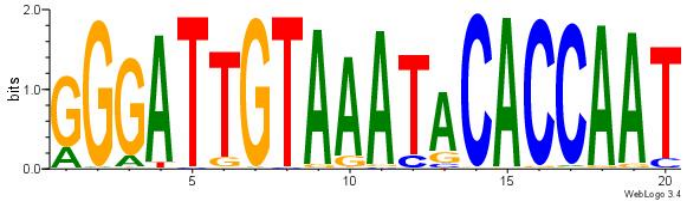

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.146299

Alignment:
GACAGGAGATTAACACTGAG
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

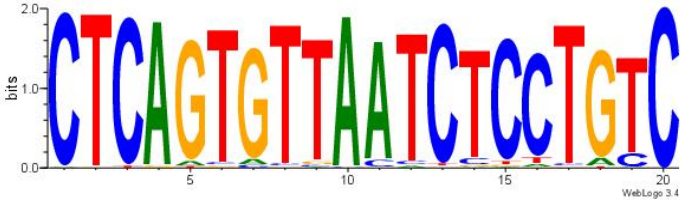

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

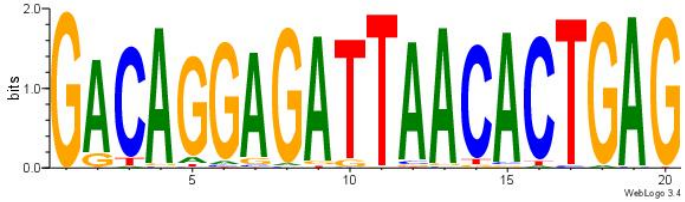

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.148544

Alignment:
ACTCCCTAGTGAGATGAACC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

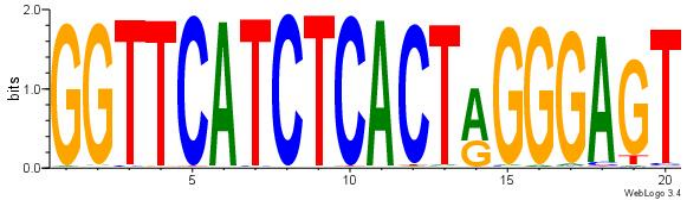

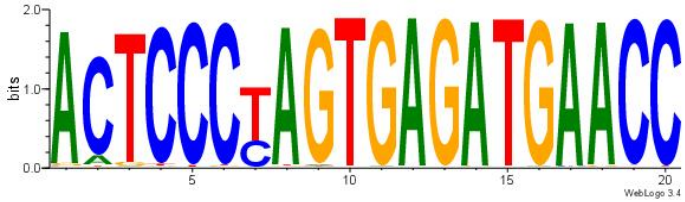

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148628

Alignment:

```
CTCCAGKTMCATCCATGTTG
CTGGCCCTCAATGGTTAAAC
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

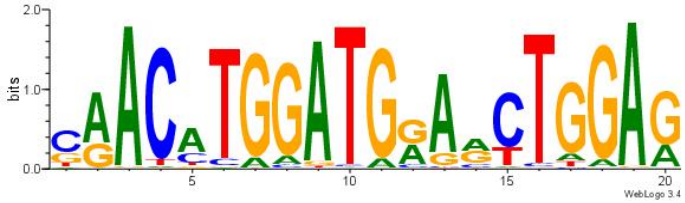

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

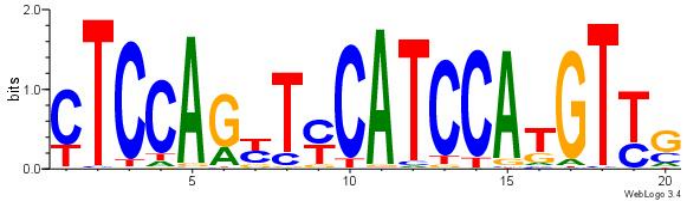

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148757

Alignment:
ATGATCCAGCAATYCCACTH
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

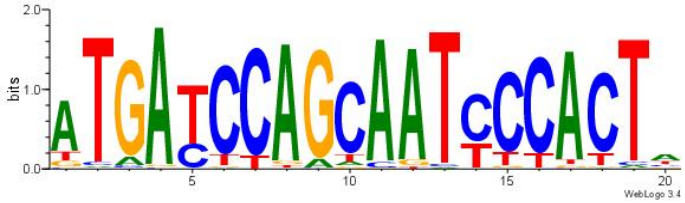

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

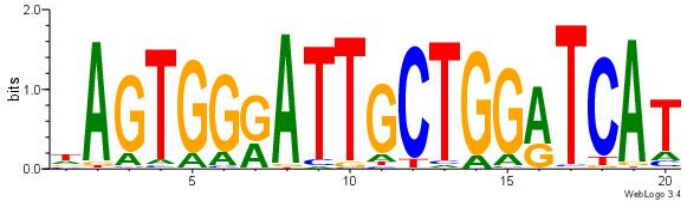

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149051

Alignment:
TCKMGCCACTGCACTCCAGC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

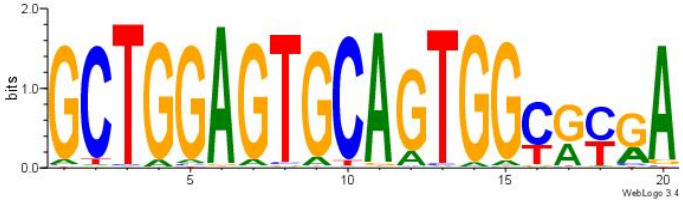

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

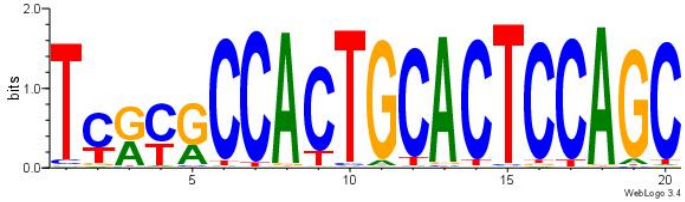

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.149568

Alignment:
CGAGCCTCCCCGAYGAGCGC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

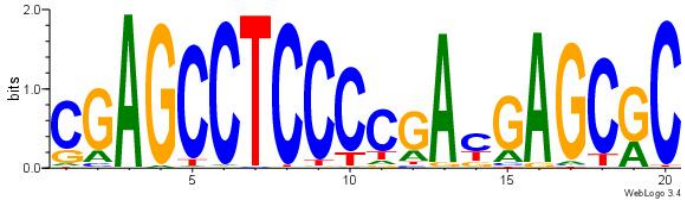

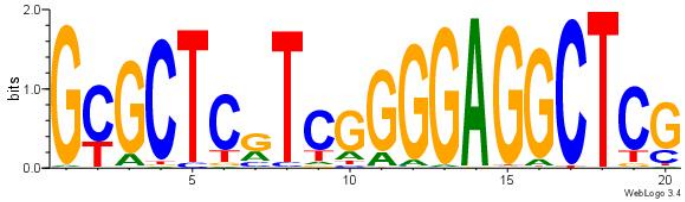

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150347

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

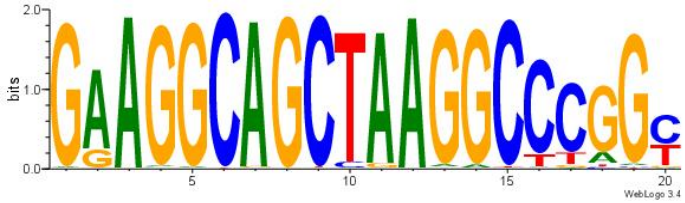

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

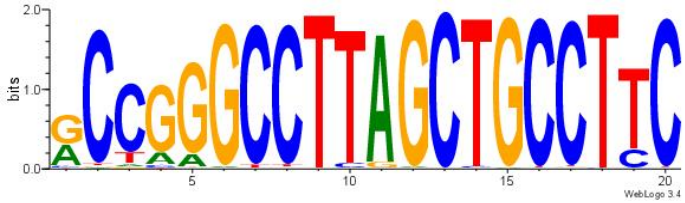

Dataset #: 1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150689

Alignment:
TYTGTCMTTTTGTGACTGGC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

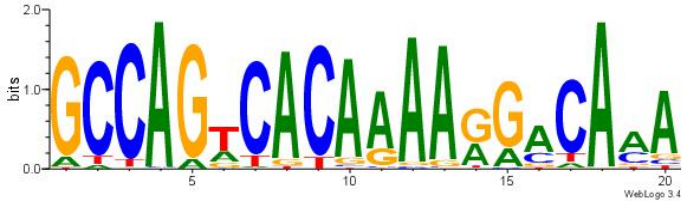

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

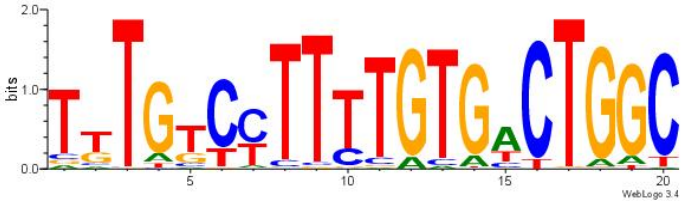

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.151096

Alignment:
GGAGGTGTGGAGGGAGAGGC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

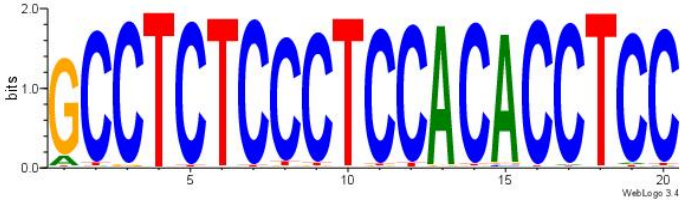

Reverse complement motif Consensus sequence:
GGAGGTGTGGAGGGAGAGGC

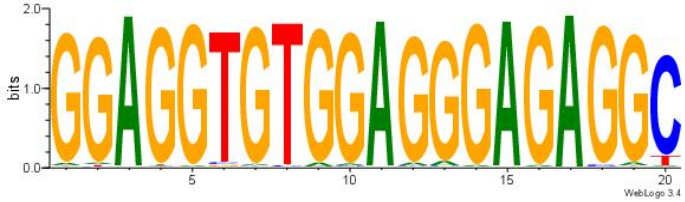

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152029

Alignment:
AGAAATCGAGCRCAGCGCCG
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

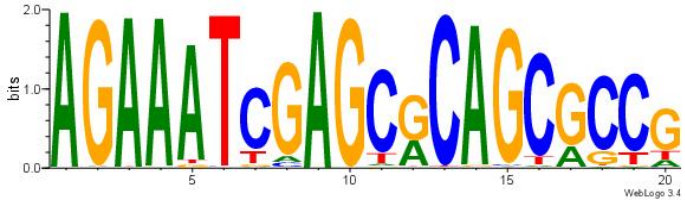

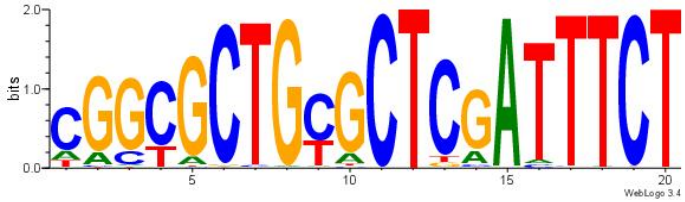

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152226

Alignment:

```
AAGCTCGAACTGGGTGGAGC
CTGGCCCTCAATGGTTAAAC
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

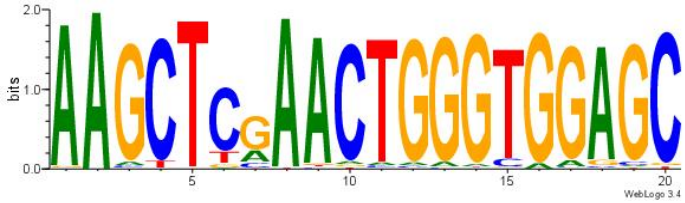

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

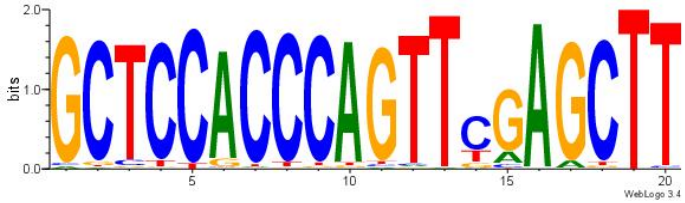

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.152843

Alignment:
CATTCTGGGGTCTGGAGGAY
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

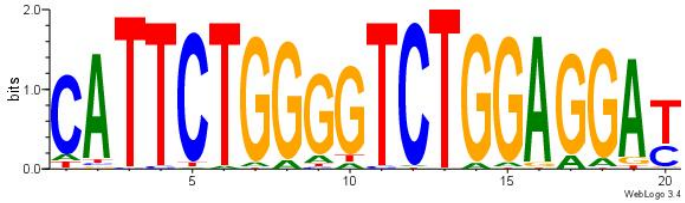

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

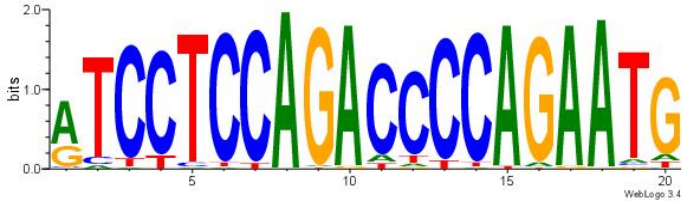

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.153367

Alignment:
AGCTCCCAGCGTGAGCGACG
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

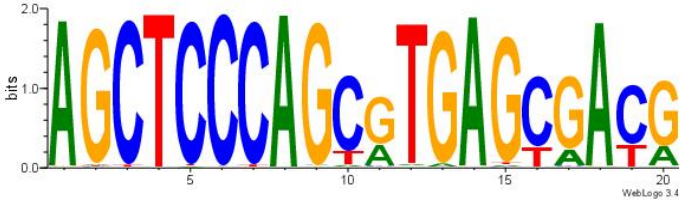

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

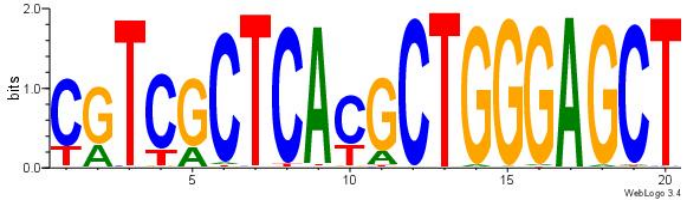

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.153504

Alignment:
AGGCCCCAGTGTSTGTTGTT
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

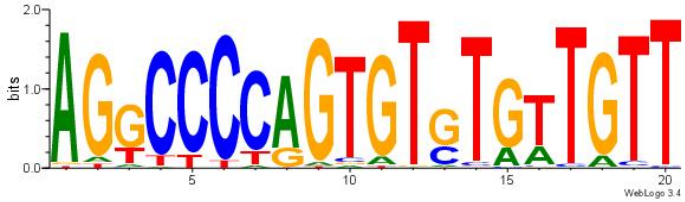

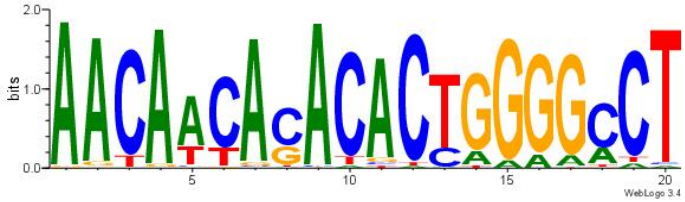

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153633

Alignment:
AGTGACCCGATTTTCCAGGT
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

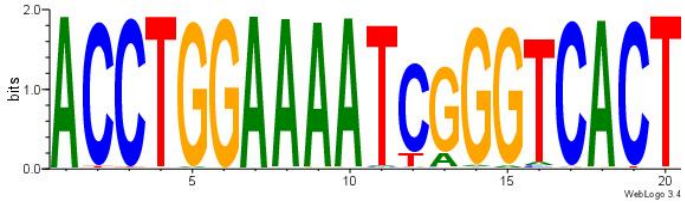

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

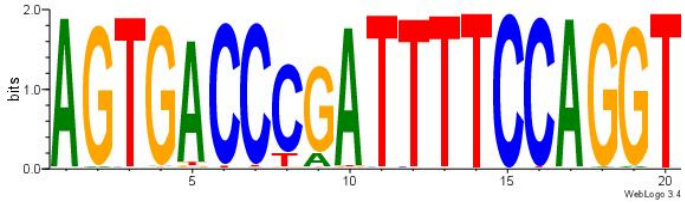

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154968

Alignment:

GCAAAKGACATGATYTCATT
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

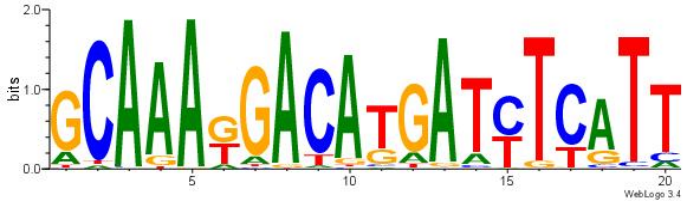

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

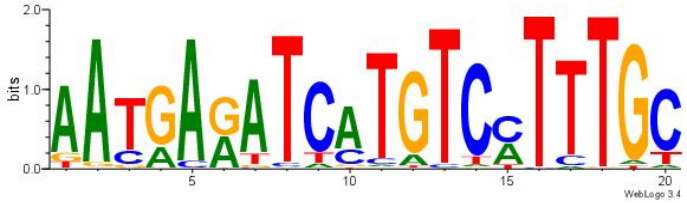

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.155481

Alignment:
AAGTCCAAGATCAAGGTGYY
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

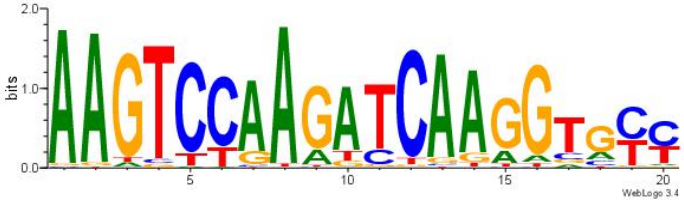

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

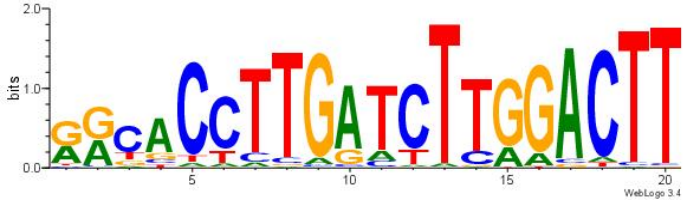

Dataset #: 1
Motif ID: 26
Motif name: Motif 26
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.155951

Alignment:
TMGGGAGGCTGAGGCAGGAG
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

Reverse complement motif Consensus sequence:
TMGGGAGGCTGAGGCAGGAG

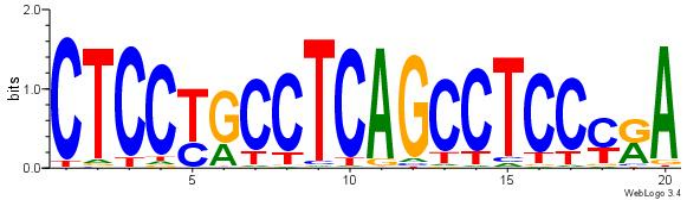

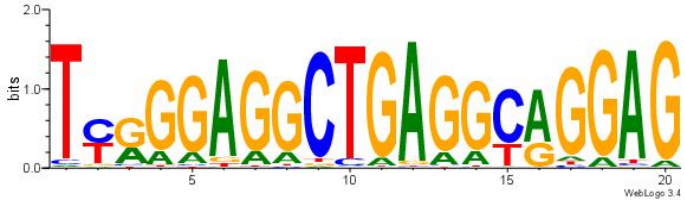

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.156743

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

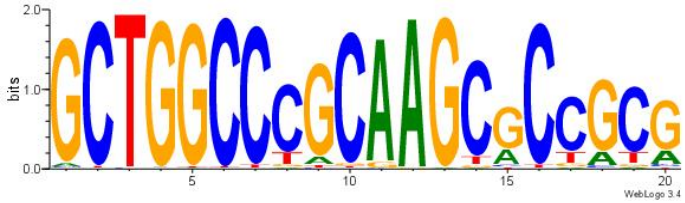

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

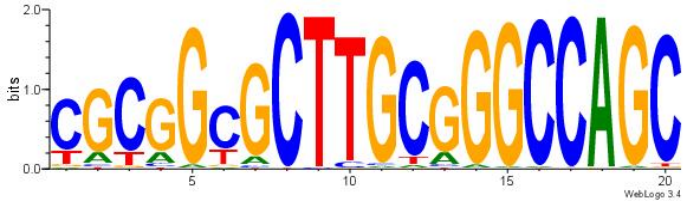

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157016

Alignment:

```
TAATTTTATGTGTCAACTTG
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

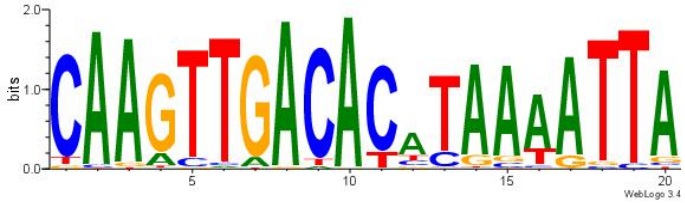

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

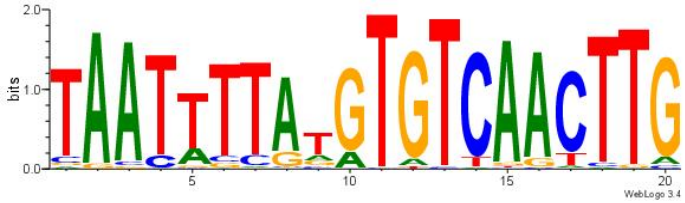

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.157602

Alignment:
CTGACTGGGAGACACCTCCC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

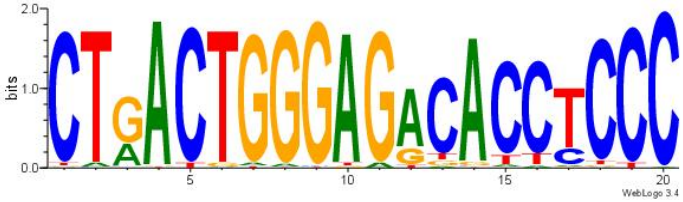

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

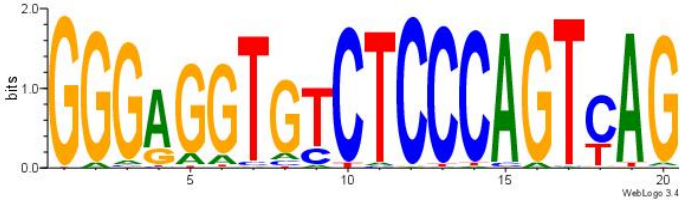

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.157668

Alignment:
TCCCTCCCGGACGGGGYGGC
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence:
GCCKCCCCGTCCGGGAGGGA

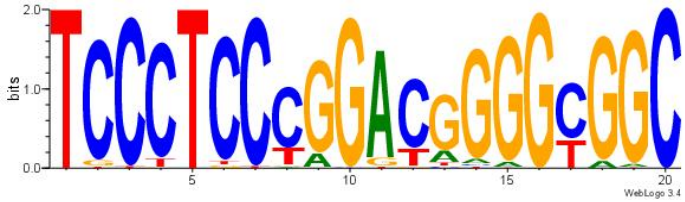

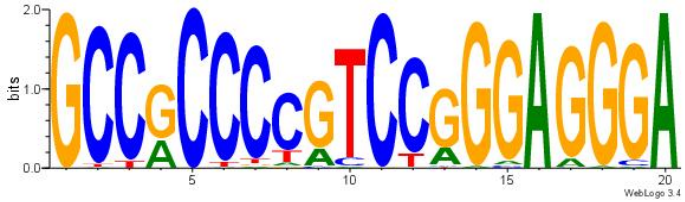

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157926

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
CTGGCCCTCAATGGTTAAAC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

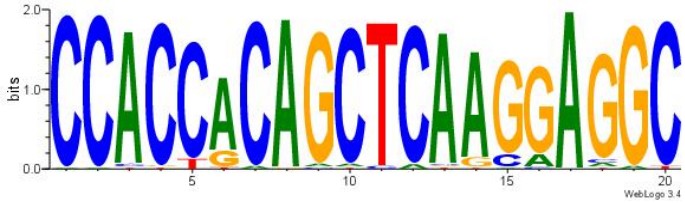

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

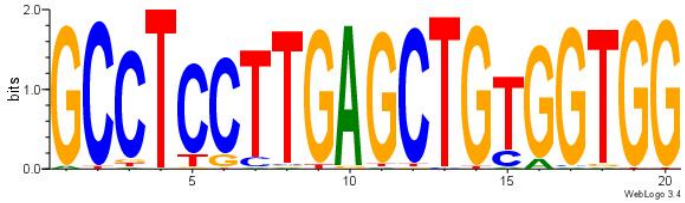

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159388

Alignment:

```
TTCAMTCATGATTTGGCTCT
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

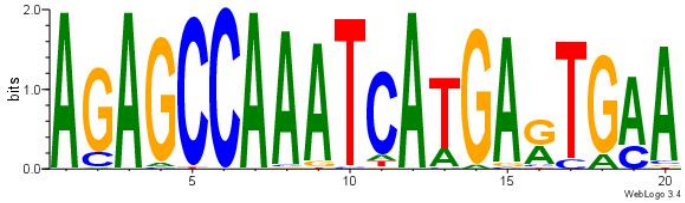

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

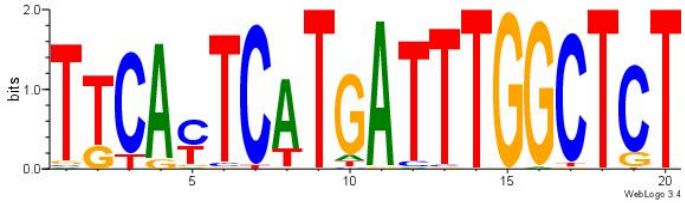

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.15945

Alignment:
MGGGATATAATCTCCTGGTG
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

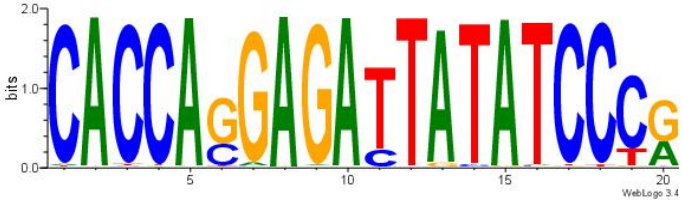

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

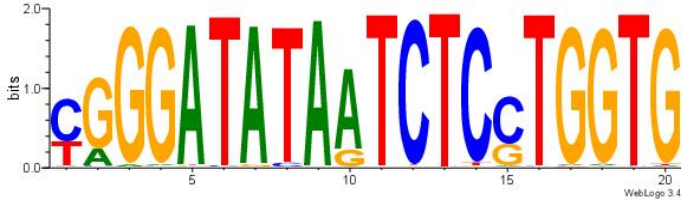

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.159597

Alignment:
CCTGCCATTGCYSAGGCTTG
CTGGCCCTCAATGGTTAAAC

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

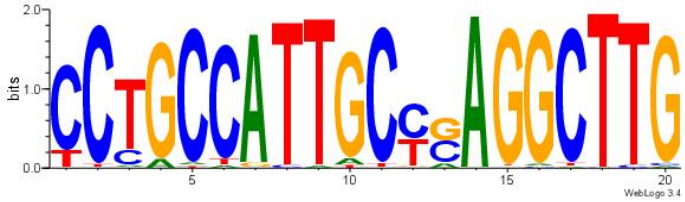

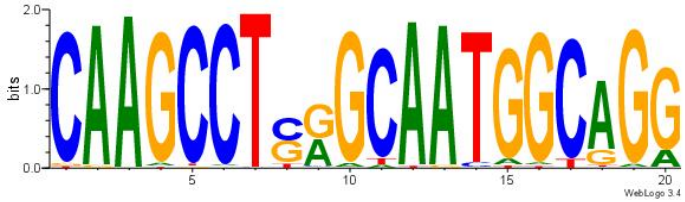

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159676

Alignment:
GTKTMTATMTACCACATTTT
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

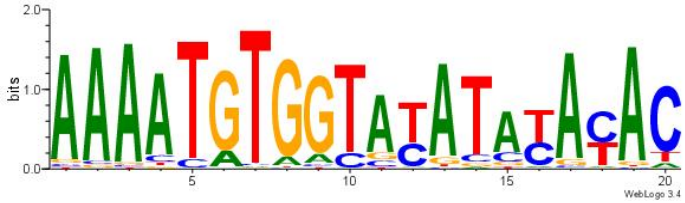

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

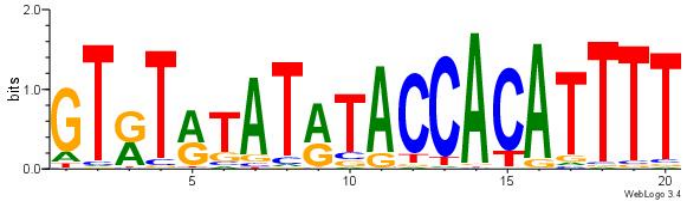

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160025

Alignment:

```
GGATCCACTGGGTGAAGCCA
GTTTAACCATTGAGGGCCAG
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

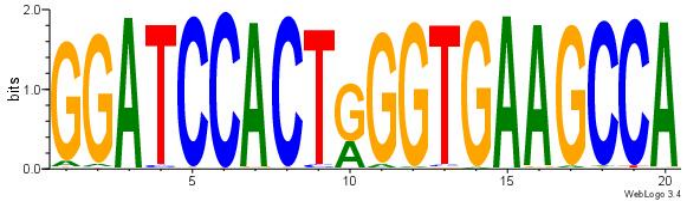

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

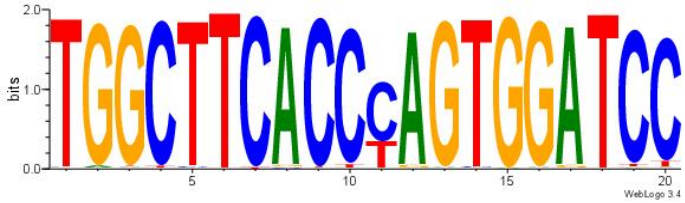

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.160388

Alignment:
AAAMAMMKMATGTTCTCACT
GTTTAACCATTGAGGGCCAG

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

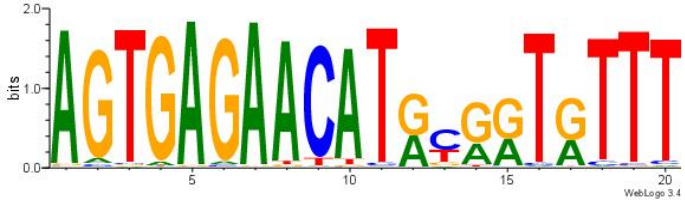

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

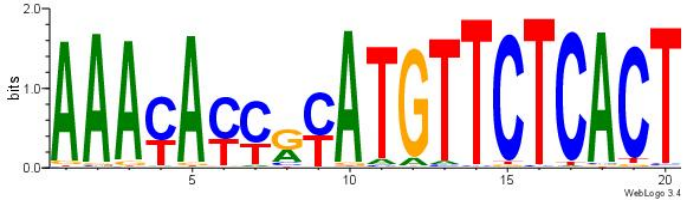

Dataset #: 1 Motif ID: 333 Motif name: Motif 333

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

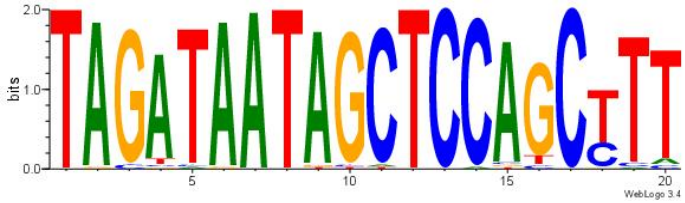

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

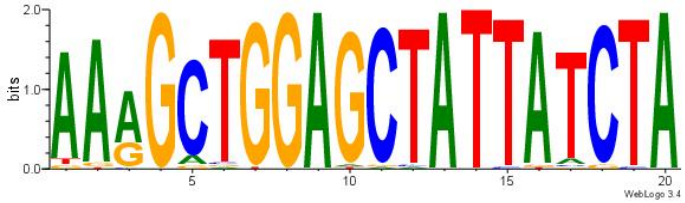

Best Matches for Motif ID 333 (Highest to Lowest)

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0856788

Alignment:

```
ATTGGTGTATTTACAATCCC
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

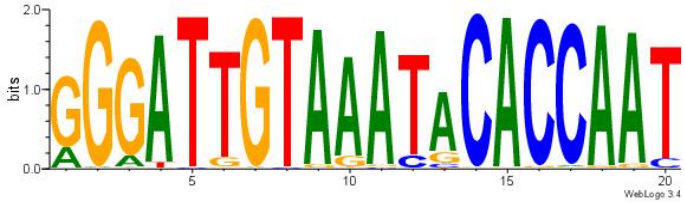

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0904379

Alignment:

AAGCTGAGGGAGCCGGCTCC
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

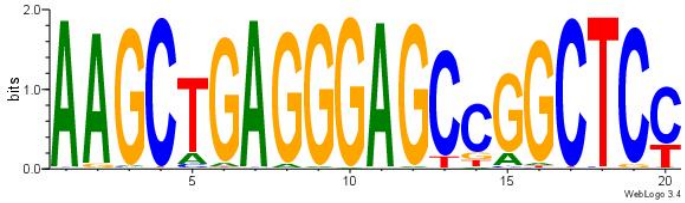

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

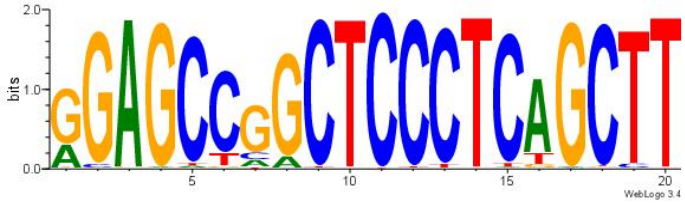

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.0912488

Alignment:
AAGGAACAAACTCCRGACAC
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

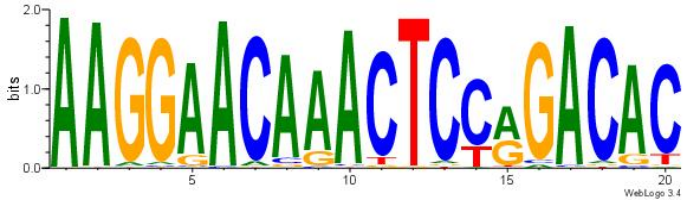

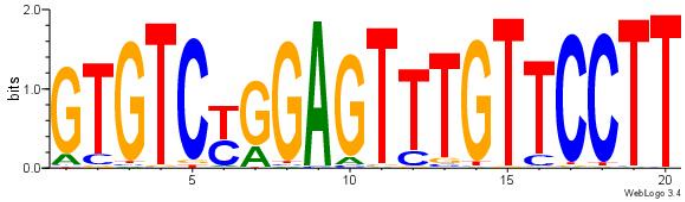

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.102365

Alignment:

```
CCTGCCATTGCYSAGGCTTG
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

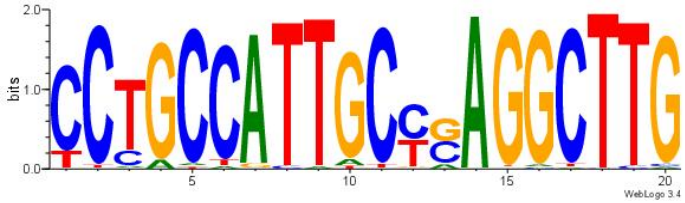

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

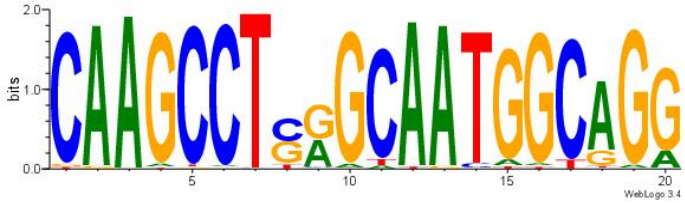

Dataset #: 1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.103421

Alignment:

```
CAAGGGTATAYGAGTAGCTG
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

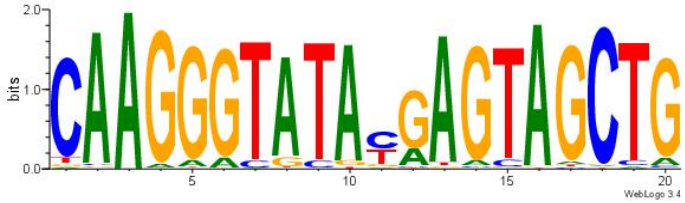

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

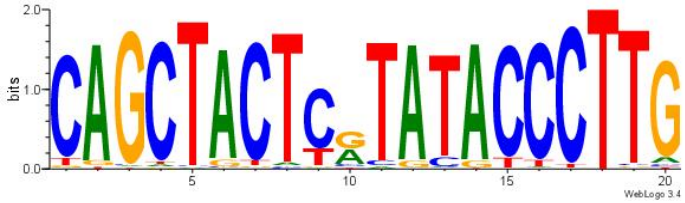

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.103437

Alignment:
GCACATGTAYCCYAGAACTT
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

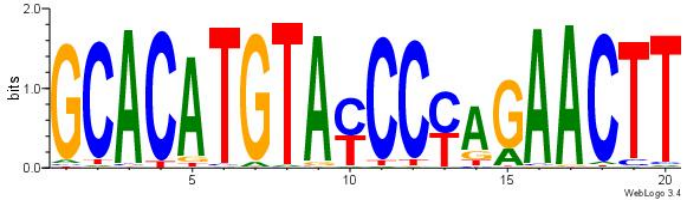

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

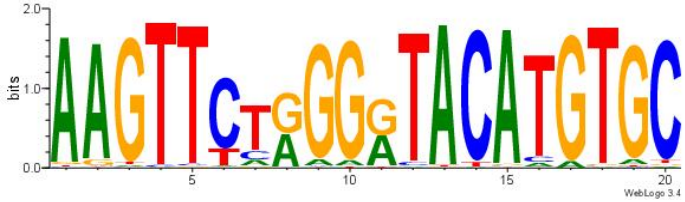

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.104311

Alignment:
CAAGTTGACACATAAAATTA
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

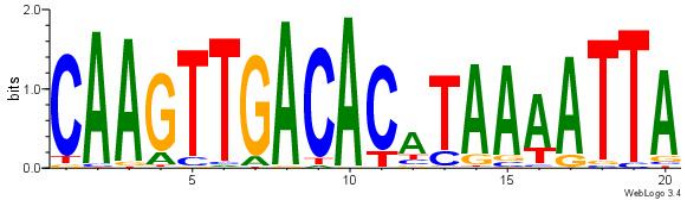

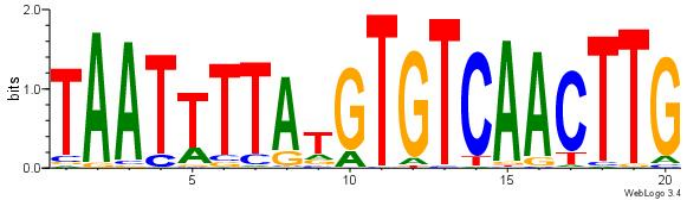

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.106383

Alignment:

```
ATGGCTGAATAKTATTCCAT
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

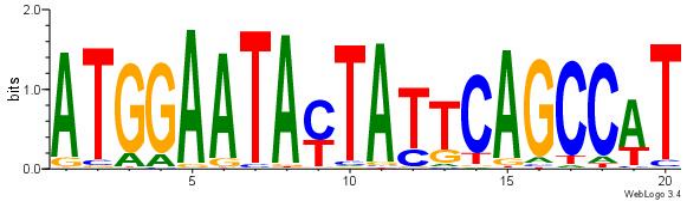

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

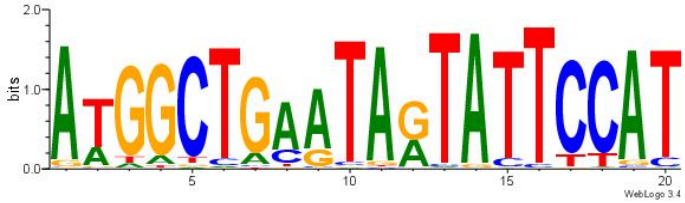

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.107

Alignment:

GGCATCACGGATCCTACCAA
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

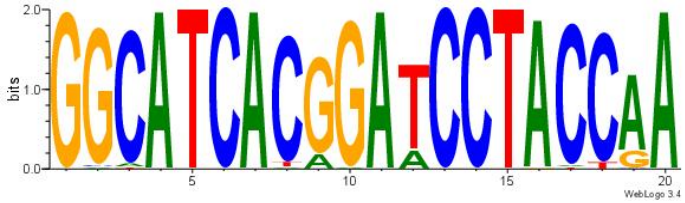

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

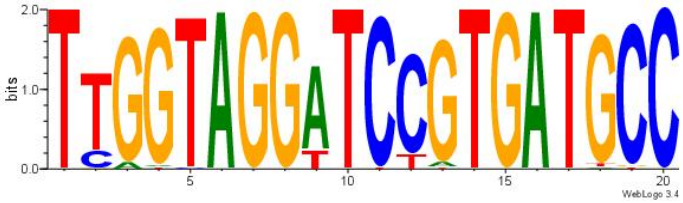

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.107774

Alignment:
AGAAATCGAGCRCAGCGCCG
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

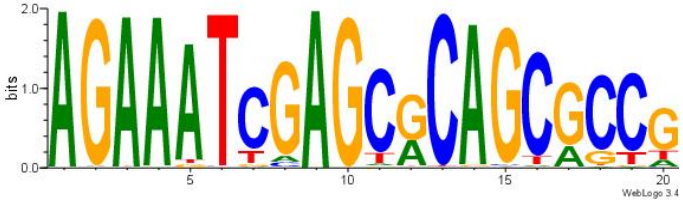

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

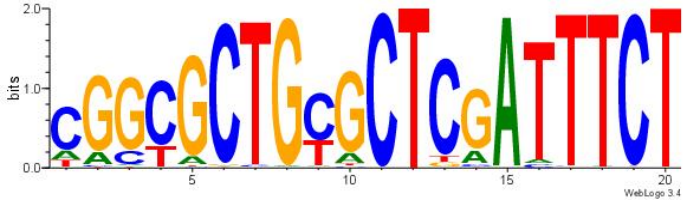

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.111381

Alignment:
TGGAGAACCTTTATGTCTAG
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

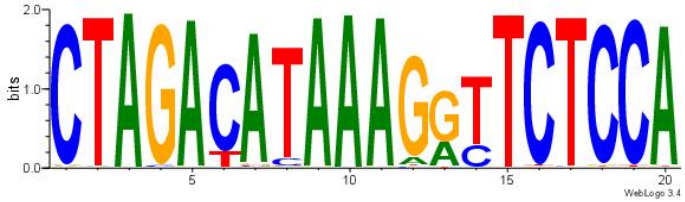

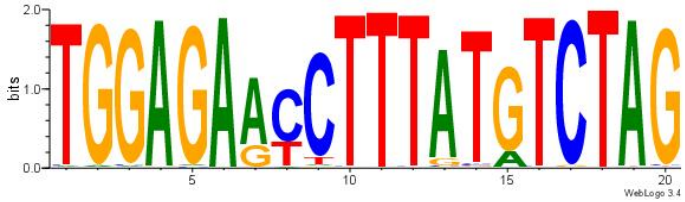

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.112062

Alignment:

```
AGAGCCAAATCATGARTGAA
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

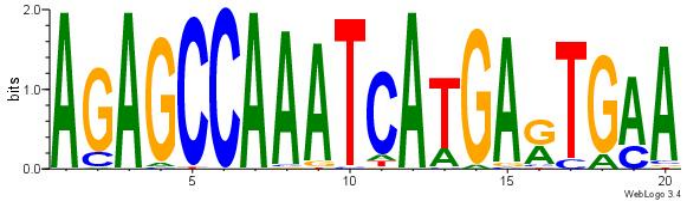

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

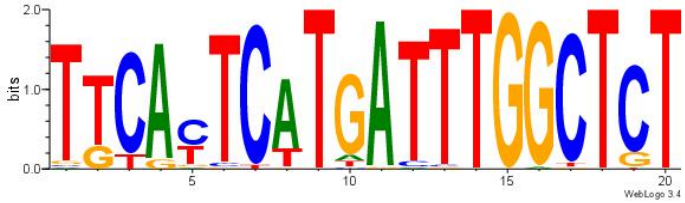

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.112344

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

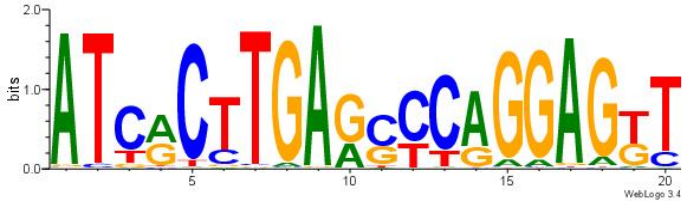

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

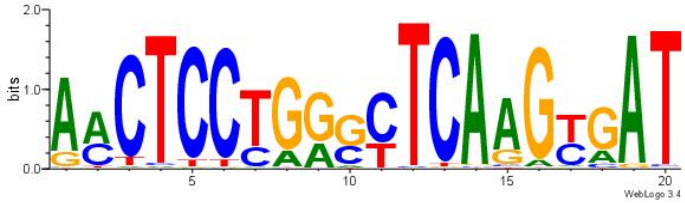

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.113398

Alignment:
GTGCCAGGCACTGTKCTARG
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

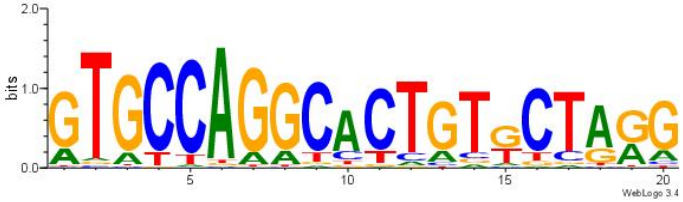

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

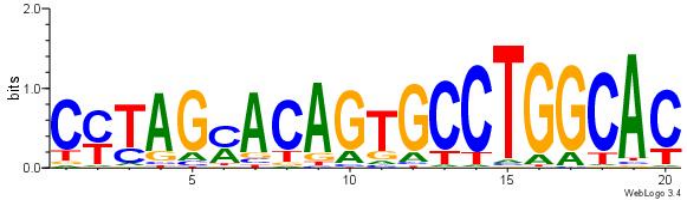

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.114206

Alignment:
AAATTACCCAGTCTCAGGTA
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

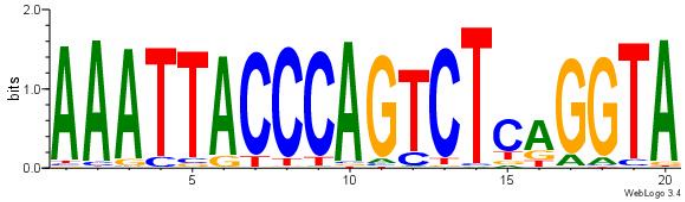

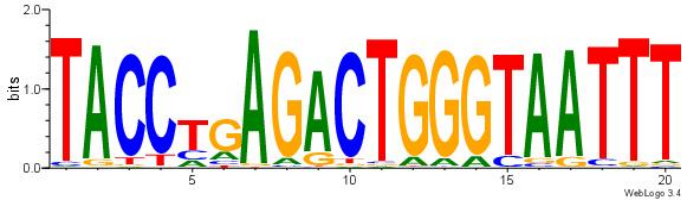

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.114731

Alignment:

```
AAATTAGGCCAATTAATAAC
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

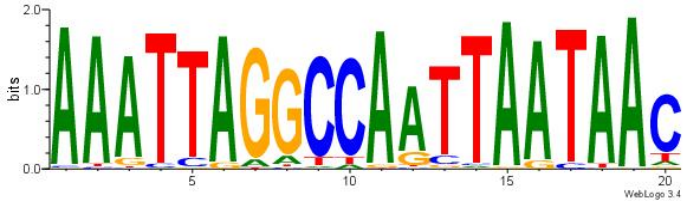

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.11761

Alignment:

```
AAAATGTGGTAYATAYAYAC
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

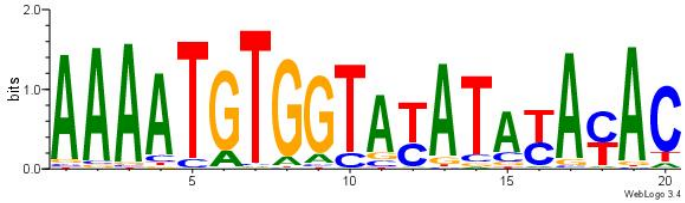

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

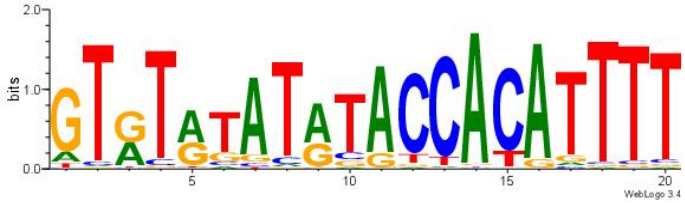

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.118082

Alignment:
ATAGGAATGCTTGTGATTTT
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

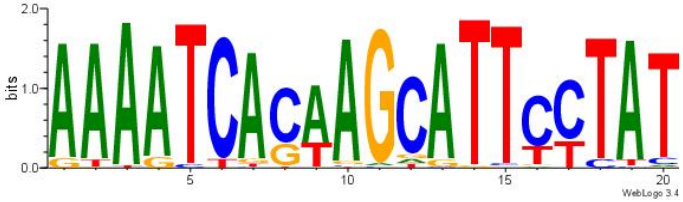

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

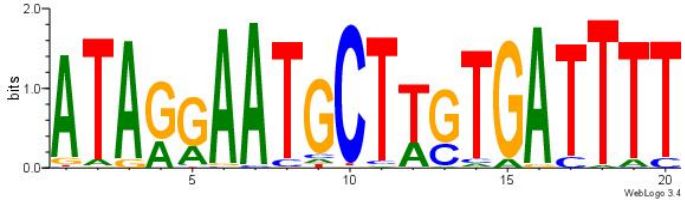

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.120014

Alignment:
CTCCAGKTMCATCCATGTTG
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

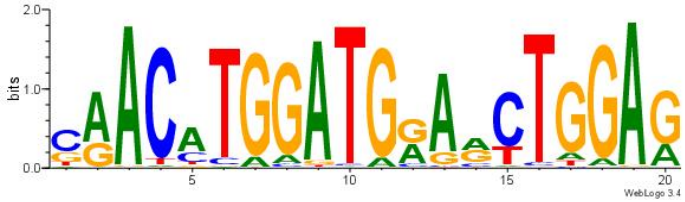

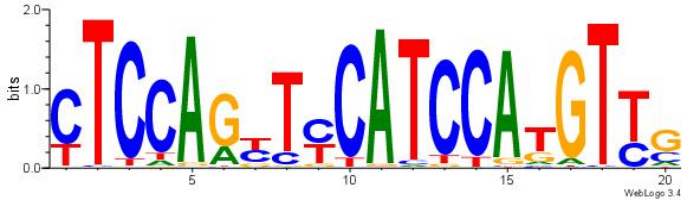

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.120085

Alignment:
CGAGCCTCCCCGAYGAGCGC
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

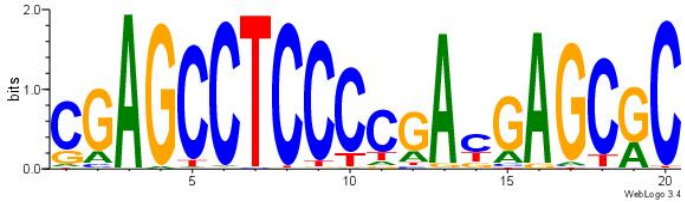

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

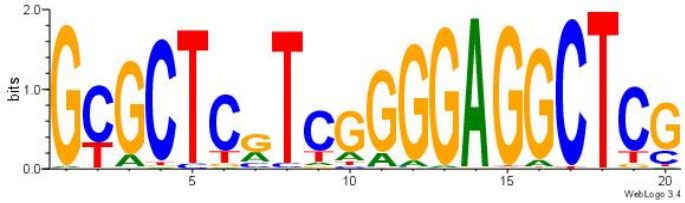

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12164

Alignment:

```
CATTCTGGGGTCTGGAGGAY
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

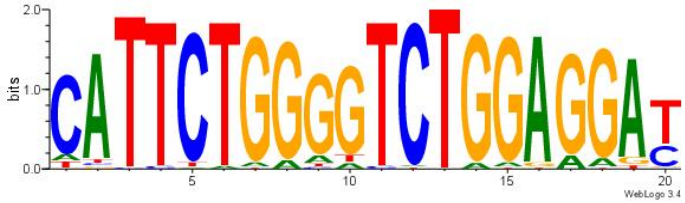

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

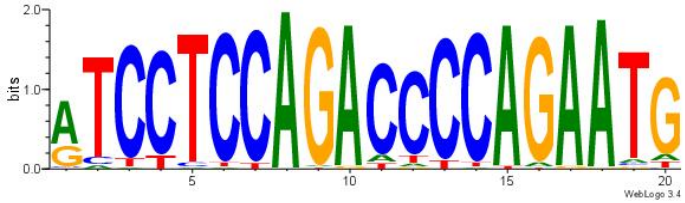

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.121915

Alignment:
AGGACTGAGGGTGCCYRGGG
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

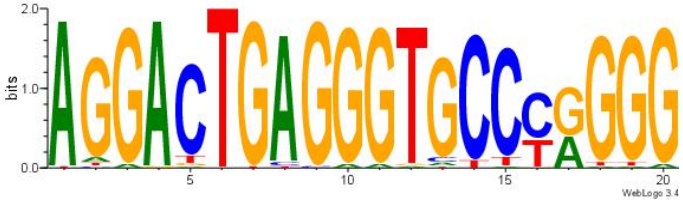

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

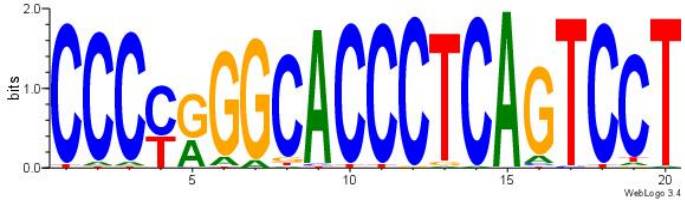

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.121969

Alignment:
MGGGATATAATCTCCTGGTG
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

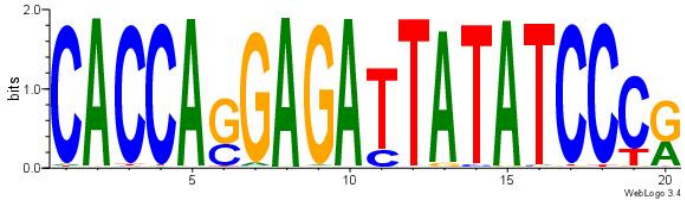

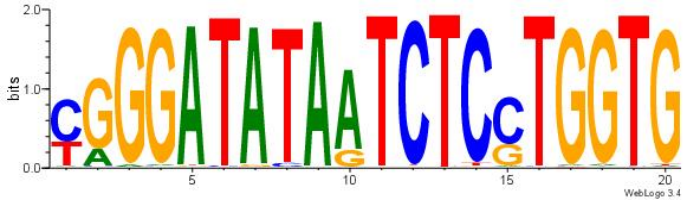

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.122074

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

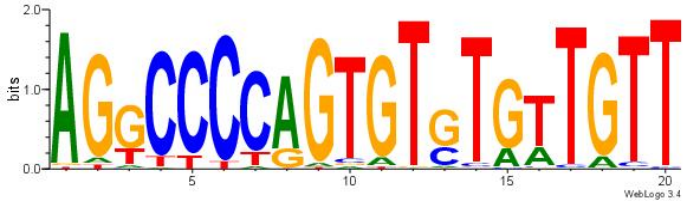

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

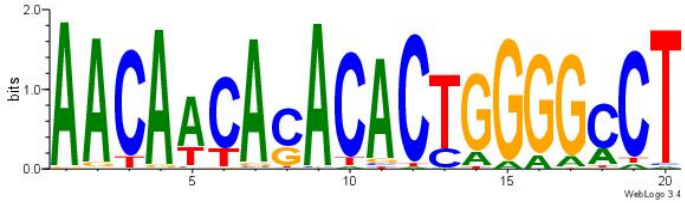

Dataset #:	1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124336

Alignment:

```
ATGTAACCAAAYACCACCTG
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

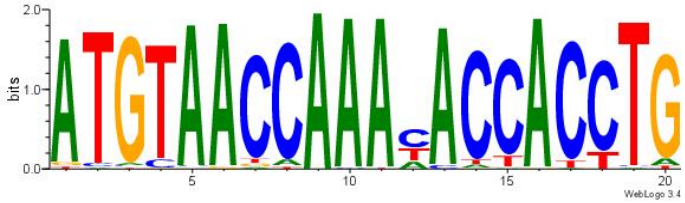

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

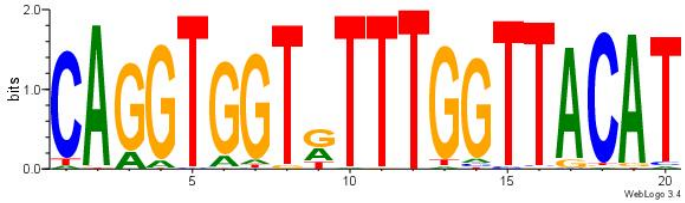

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.125241

Alignment:
AGGTTTGTTACATAGGTAWA
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

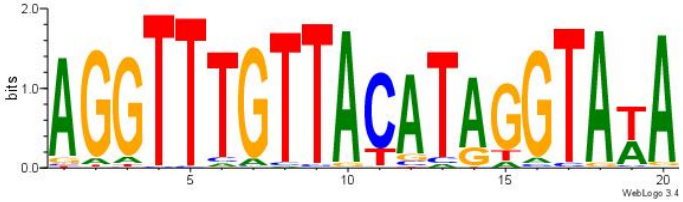

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

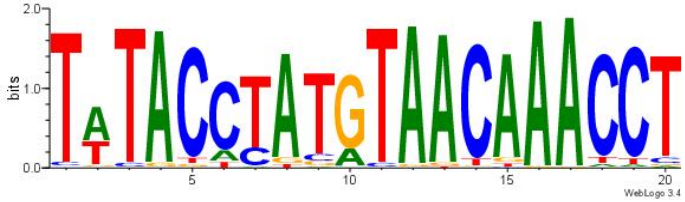

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.126916

Alignment:
ACCKTCGCGGTGAGTGTTAC
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

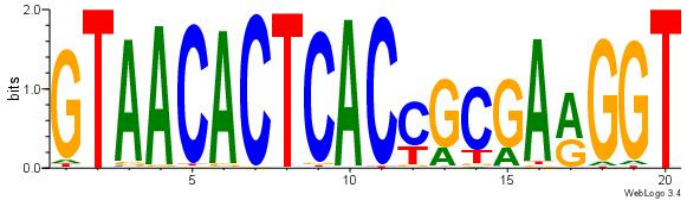

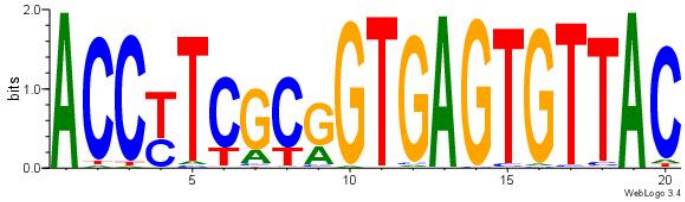

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12743

Alignment:

```
CCCATGCAAGTCYRAAATCC
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

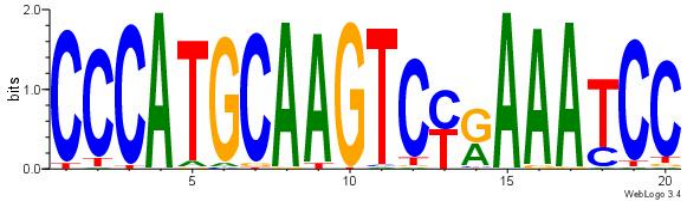

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

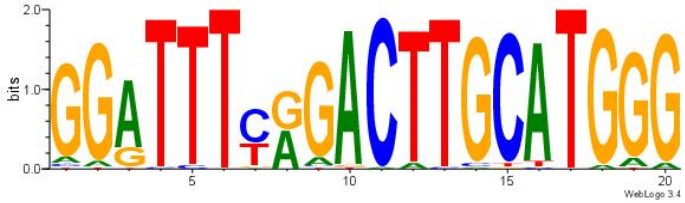

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.128379

Alignment:

```
ATGGACAYTTRGGTTGHTTC
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

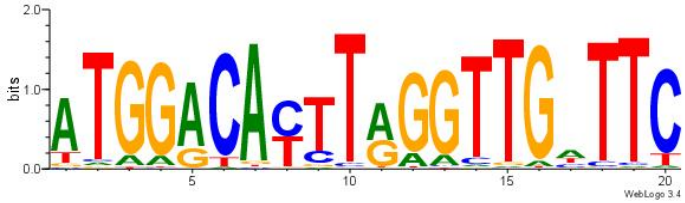

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

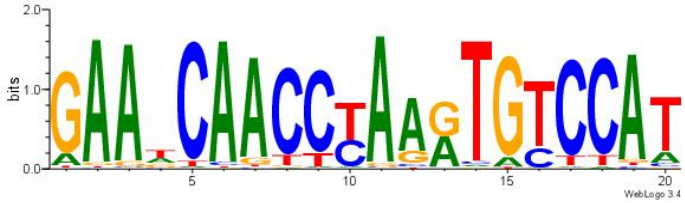

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.130145

Alignment:
TAAAAGACTACAWATTGGGT
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

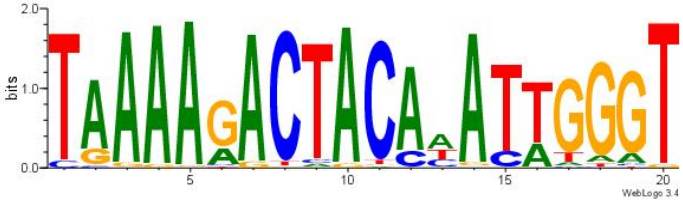

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

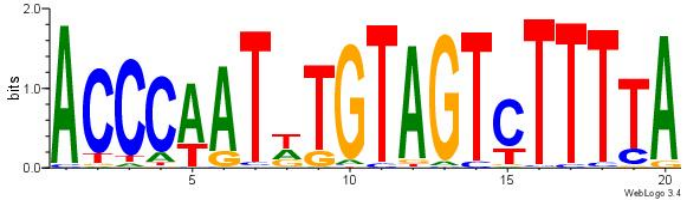

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.130347

Alignment:
GGGAGGTGTCTCCCAGTCAG
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

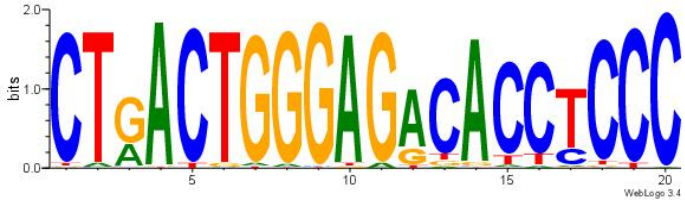

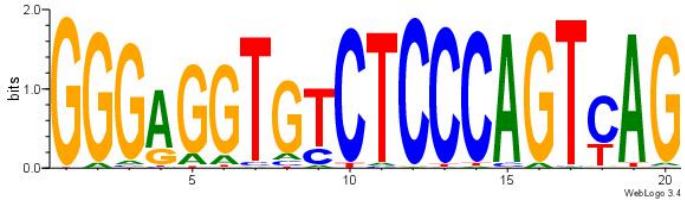

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130358

Alignment:

```
KKCACCTTGATCTTGGACTT
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

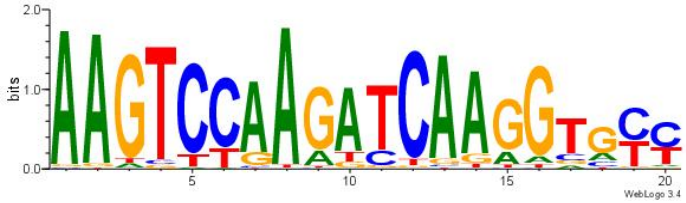

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

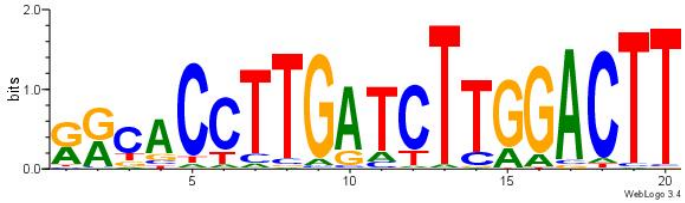

Dataset #: 1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.130492

Alignment:

```
VMATTTAKTGAGCACCTACT
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

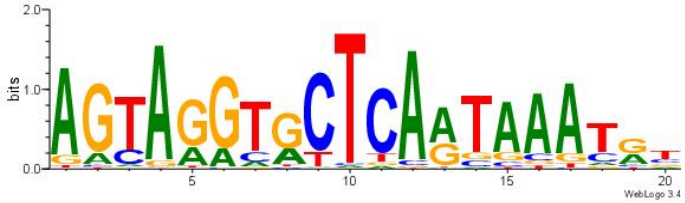

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

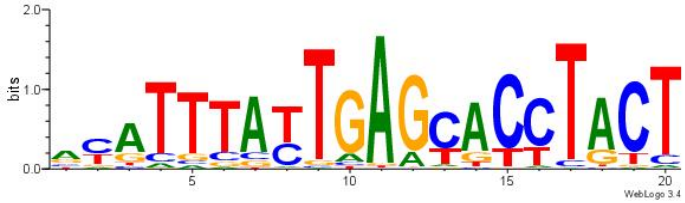

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.131599

Alignment:
AATGAKATCATGTCYTTTGC
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

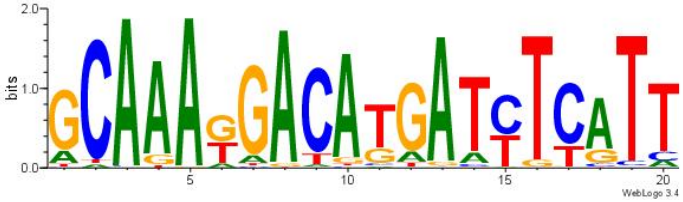

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

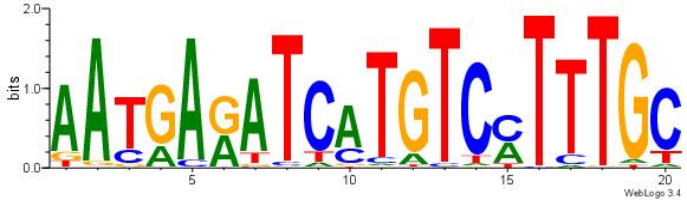

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.131798

Alignment:
GAAAGGGAACTCCCTGACCC
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

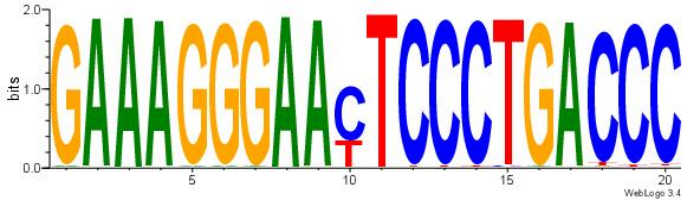

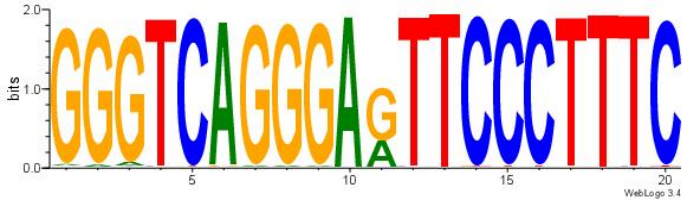

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.131866

Alignment:
ACCGAGMKMGCAGCTTCGGG
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

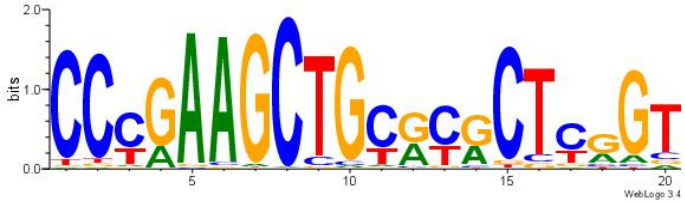

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

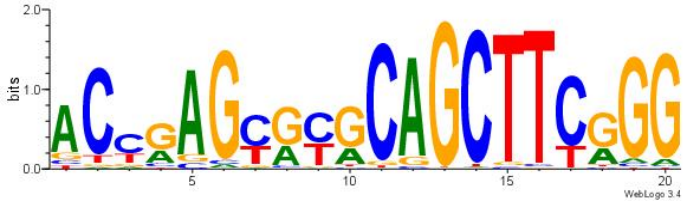

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132354

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

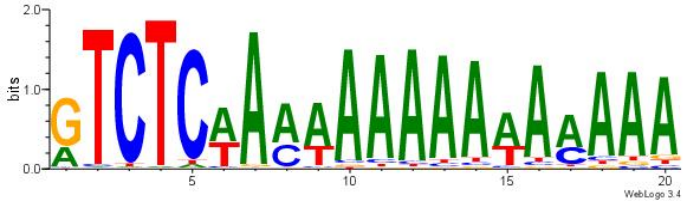

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

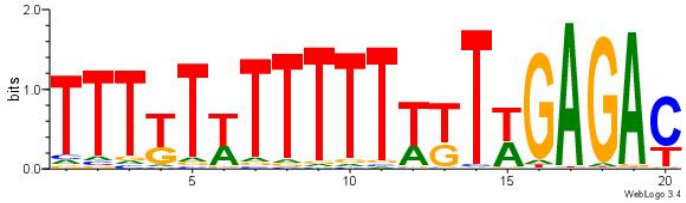

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132504

Alignment:
AAGCAGGGCGAGGCATTGCC
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

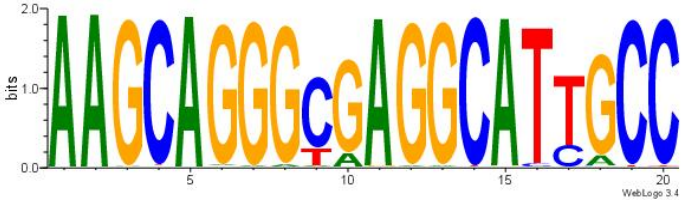

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

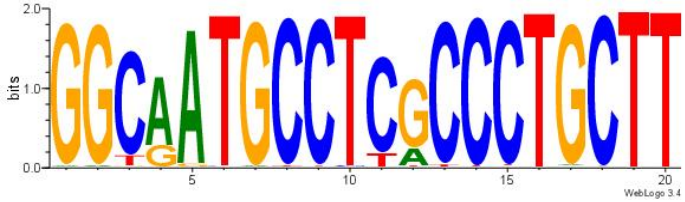

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.132693

Alignment:
GACAGGAGATTAACACTGAG
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

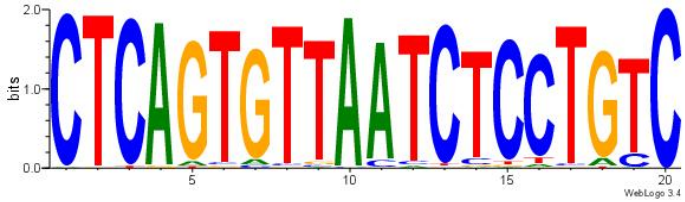

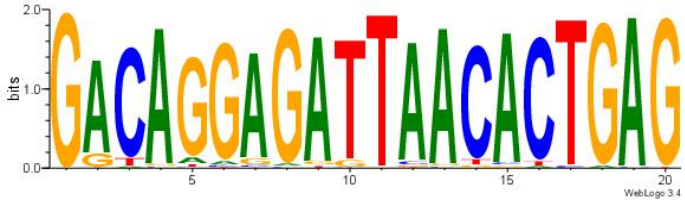

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.133968

Alignment:

```
AGCCYCTGGYAACCAYYAWT
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

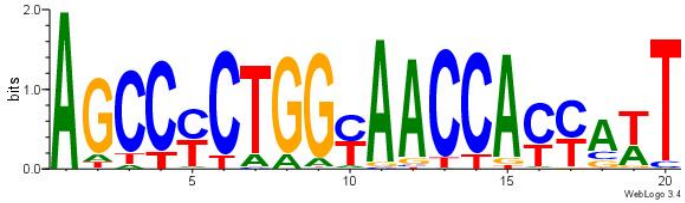

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

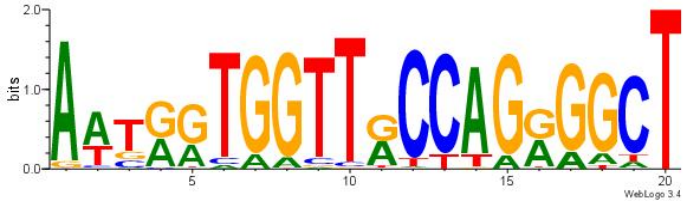

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.136479

Alignment:

```
ATTGATMKCCAGGGTTGATT
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

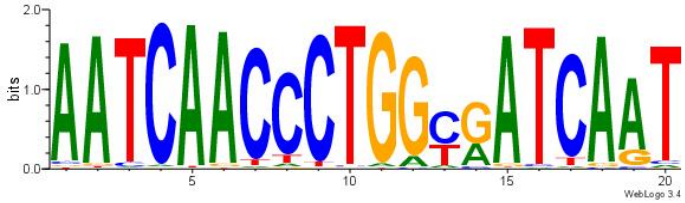

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

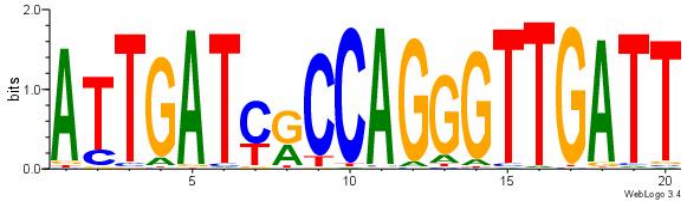

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.136497

Alignment:
GCCAATTTCTCCCATTTGGA
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

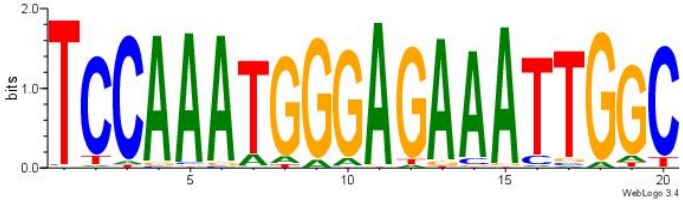

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

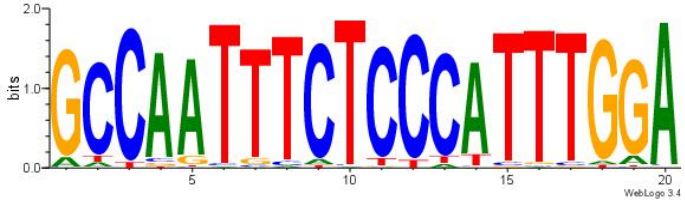

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.136604

Alignment:
AAAAGTCCACAGTCCAAAGT
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

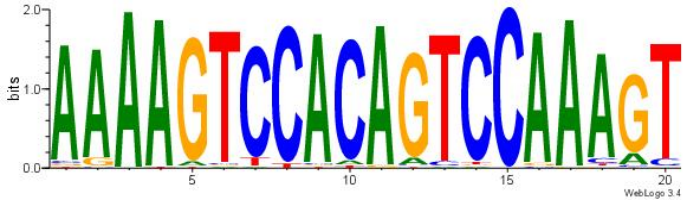

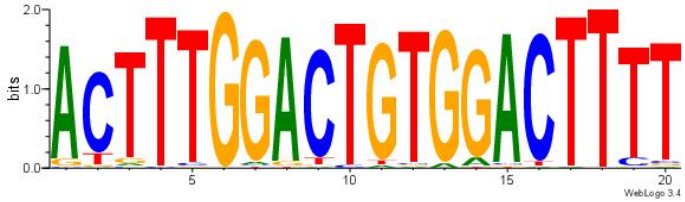

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.138493

Alignment:

```
GCTGTGTGACCTTGGGCAAG
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

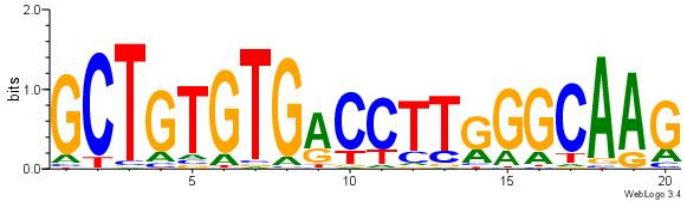

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

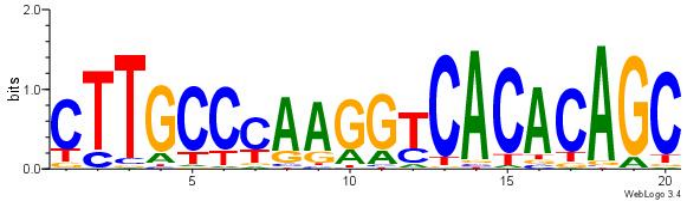

Dataset #: 1

Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.139524

Alignment:

```
GTGGCCCTCTTCTCACAGCT
TAGATAATAGCTCCAGCTTT
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

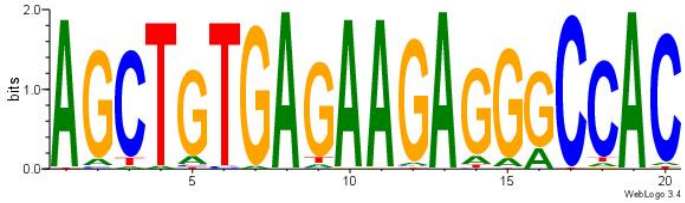

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

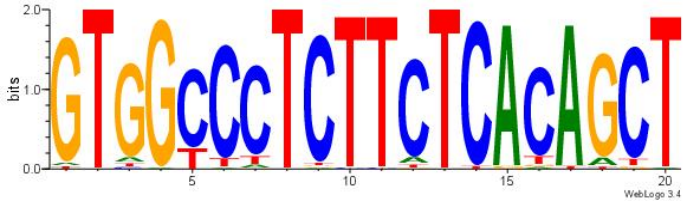

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.139946

Alignment:
TGCTGGAGGTCCACTCCAGA
AAAGCTGGAGCTATTATCTA

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

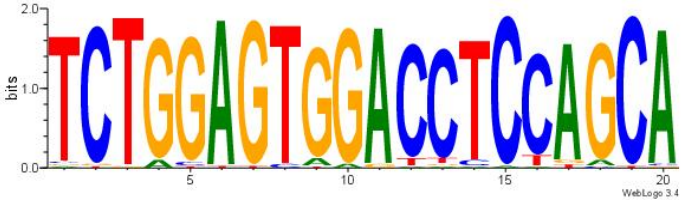

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

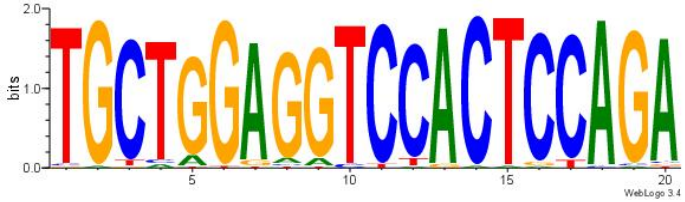

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.140437

Alignment:
ATGATCCAGCAATYCCACTH
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

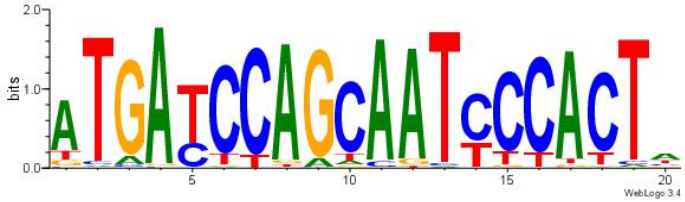

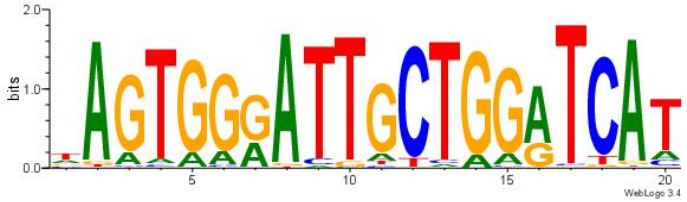

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140867

Alignment:

```
AAGACCTTCCAGTGGGACAA
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

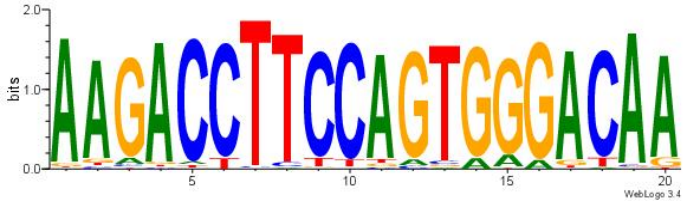

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

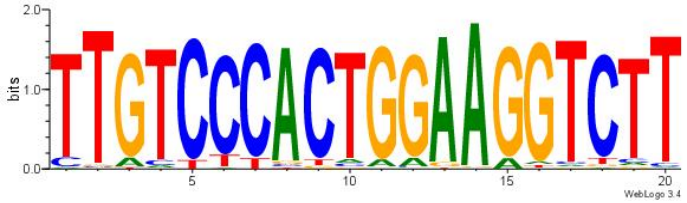

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142454

Alignment:

```
GGATCCACTGGGTGAAGCCA
AAAGCTGGAGCTATTATCTA
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

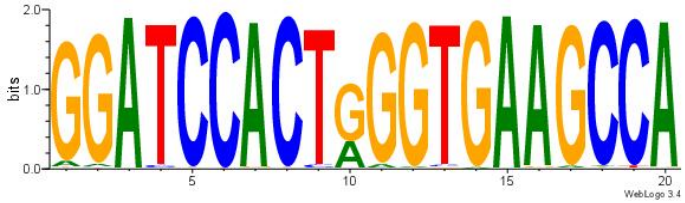

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

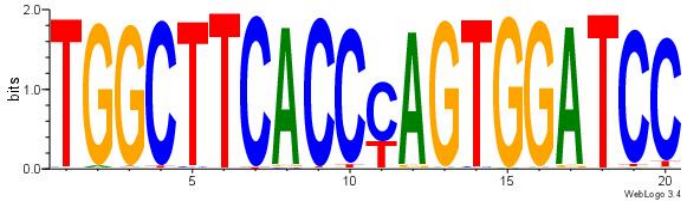

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.142735

Alignment:
AAGCTCGAACTGGGTGGAGC
TAGATAATAGCTCCAGCTTT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

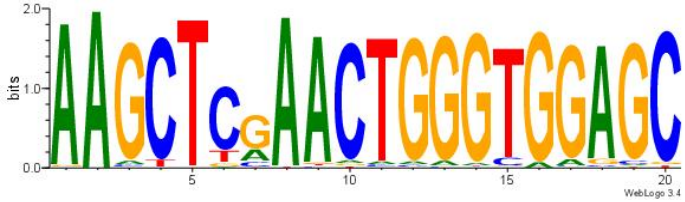

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

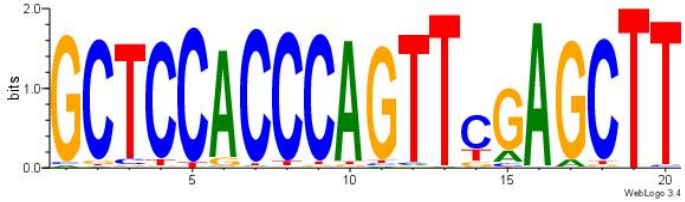

Dataset #: 1 Motif ID: 334 Motif name: Motif 334

Original motif Consensus sequence: CATCTGTCAC

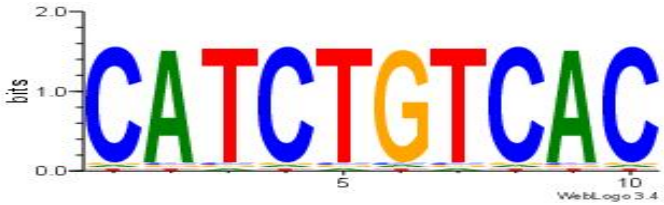

Reverse complement motif Consensus sequence: GTGACAGATG

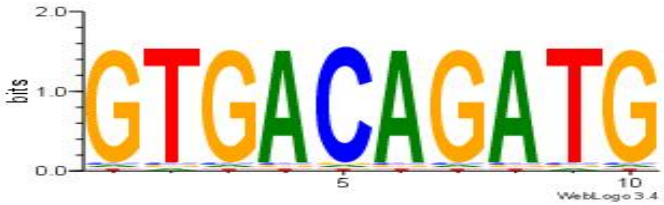

Best Matches for Motif ID 334 (Highest to Lowest)

Dataset #:	1
Motif ID:	272
Motif name:	Motif 272
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0227273

Alignment:

```
CAGCTGTCAC
CATCTGTCAC
```

Original motif Consensus sequence: CAGCTGTCAC

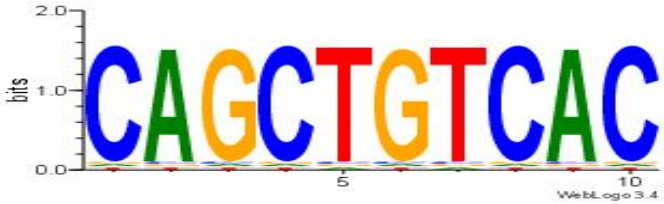

Reverse complement motif Consensus sequence: GTGACAGCTG

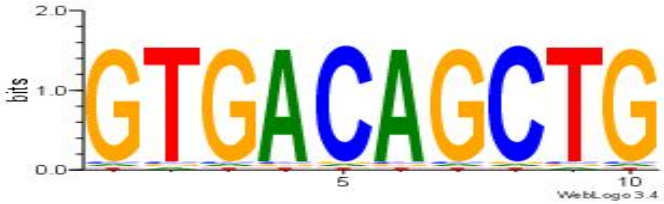

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0317788

Alignment:

```
BCVTCTGTCACCCC
---CATCTGTCAC-
```

Original motif Consensus sequence: GGGGTGACAGABGB

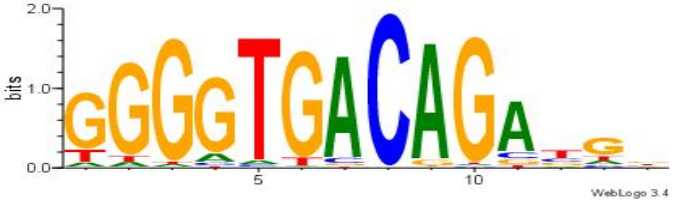

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

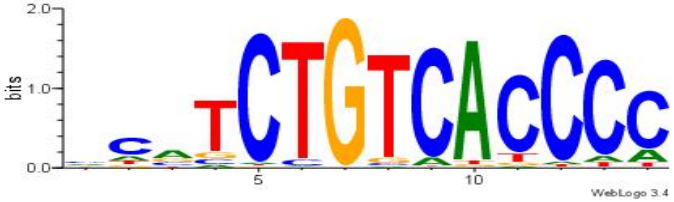

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0451613

Alignment:

```
ACATCTGYMMCC
-CATCTGTCAC-
```

Original motif Consensus sequence: ACATCTGYMMCC

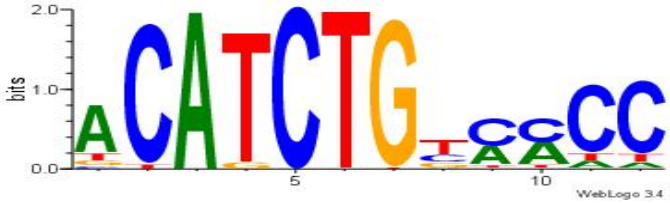

Reverse complement motif Consensus sequence: GGRRMCAGATGT

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0558301

Alignment:

```
TGGGCTGCCAGATG
----GTGACAGATG
```

Original motif Consensus sequence: CATCTGGCAGCCCA

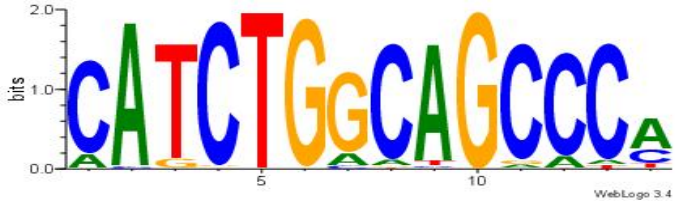

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

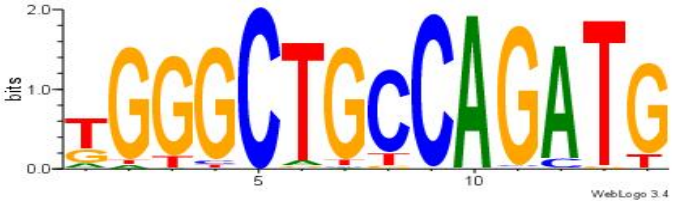

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0598762

Alignment:
GGTGCCAGCTGT
-GTGACAGATG-

Original motif Consensus sequence: ACAGCTGGCACC

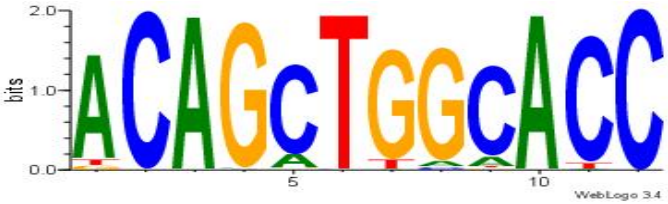

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

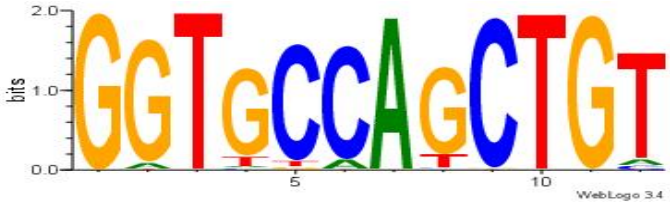

Dataset #: 1
Motif ID: 81
Motif name: Motif 81
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.060151

Alignment:
ATTTTACAGATG
--GTGACAGATG

Original motif Consensus sequence: CATCTGTAAAAT

Reverse complement motif Consensus sequence: ATTTTACAGATG

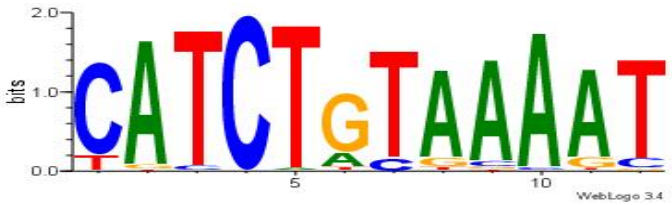

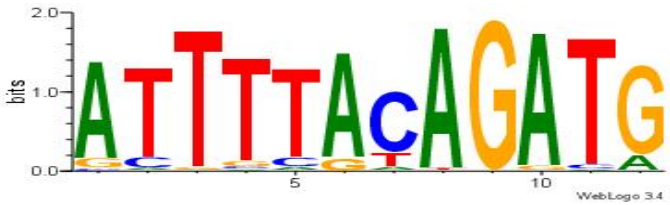

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0744452

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
--CATCTGTCAC--------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

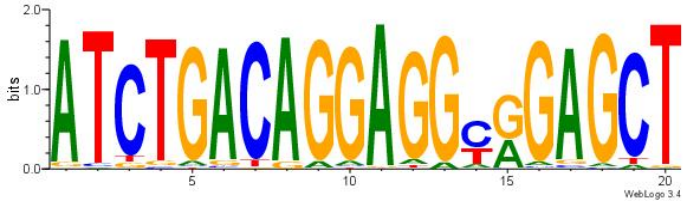

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

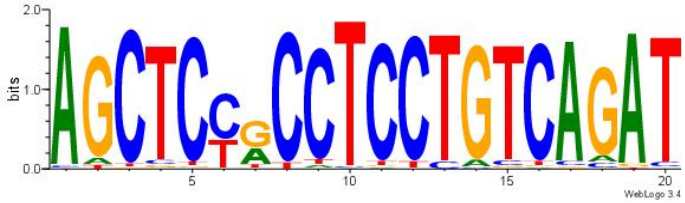

Dataset #:	1

Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.078667

Alignment:

```
CTTGGGTGGTCGATGGGAC
-----GTGACAGATG----
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

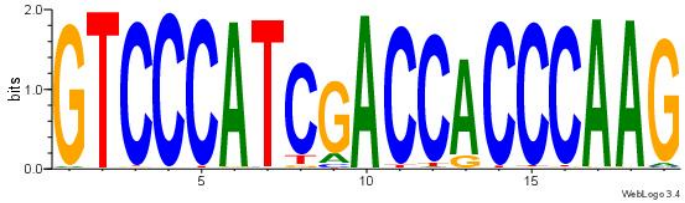

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

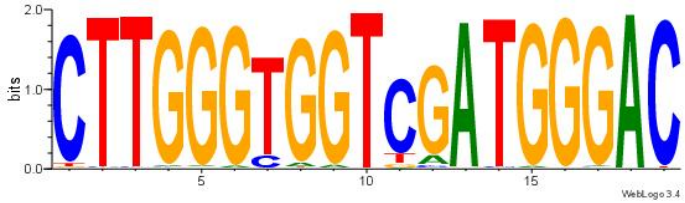

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0792521

Alignment:
TATTTACAGCTGCT
--GTGACAGATG--

Original motif Consensus sequence: AGCAGCTGTAAATA

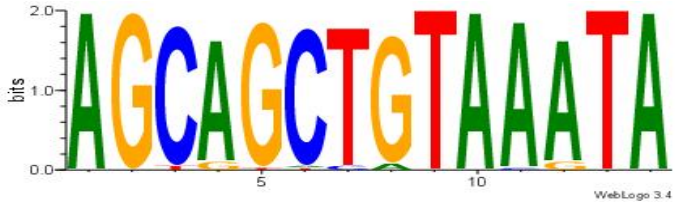

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

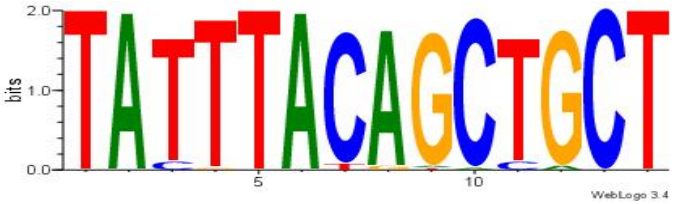

Dataset #: 1
Motif ID: 260
Motif name: Motif 260
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0798435

Alignment:
TTMGTCCCAGAGGGGCACC
---GTGACAGATG------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

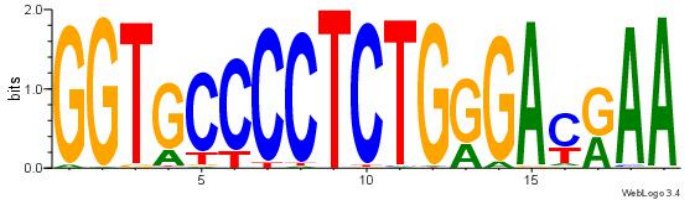

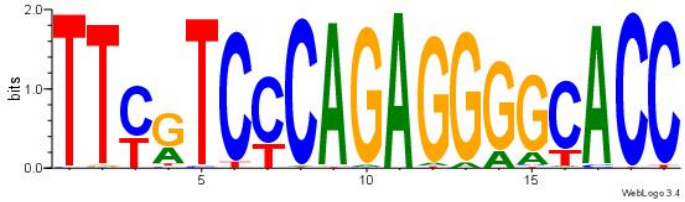

Dataset #:	1
Motif ID:	269
Motif name:	Motif 269
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0808367

Alignment:

```
GCACATGTCGCT
-CATCTGTCAC-
```

Original motif Consensus sequence: AGCGACATGTGC

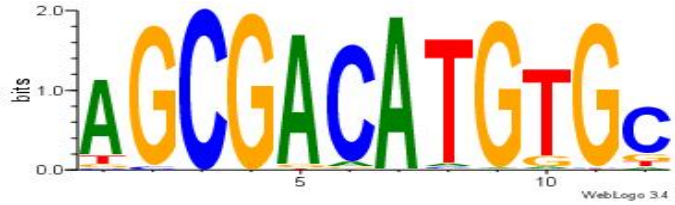

Reverse complement motif Consensus sequence: GCACATGTCGCT

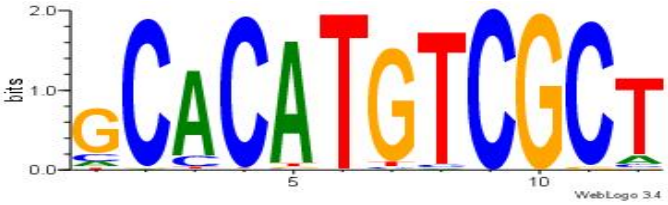

Dataset #:	1
Motif ID:	143

Motif name:	Motif 143
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.081706

Alignment:

```
CTGCGTCGCTCAC
---CATCTGTCAC
```

Original motif Consensus sequence: CTGCGTCGCTCAC

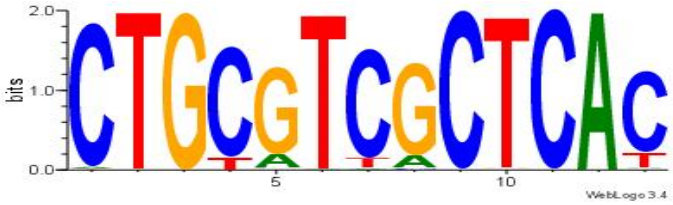

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

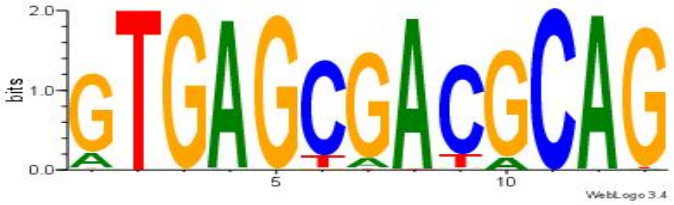

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0818849

Alignment:
TWTACCTATGTAACAAACCT
------CATCTGTCAC----

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

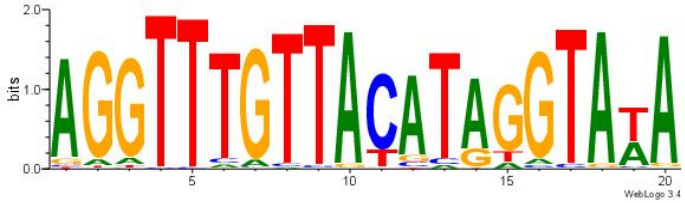

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

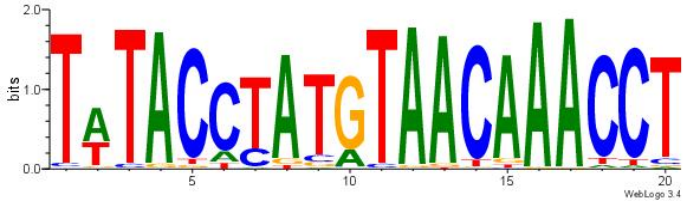

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0824205

Alignment:
CGTCCATCACCCC
CATCTGTCAC---

Original motif Consensus sequence: CGTCCATCACCCC

Reverse complement motif Consensus sequence: GGGGTGATGGACG

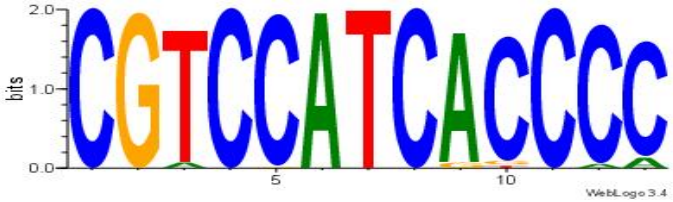

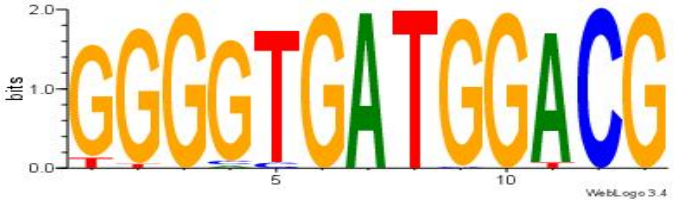

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0825731

Alignment:

```
CATCTGGAGCCCCA
CATCTGTCAC----
```

Original motif Consensus sequence: CATCTGGAGCCCCA

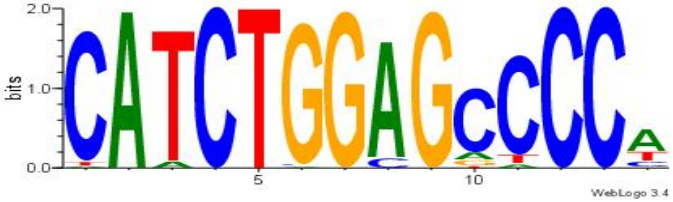

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

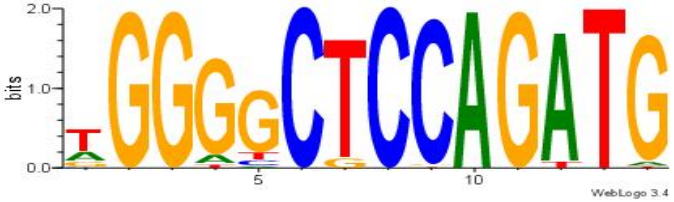

Dataset #:	1
Motif ID:	303

Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0833321

Alignment:

```
ACCATCTTTAAGAACT
----CATCTGTCAC--
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

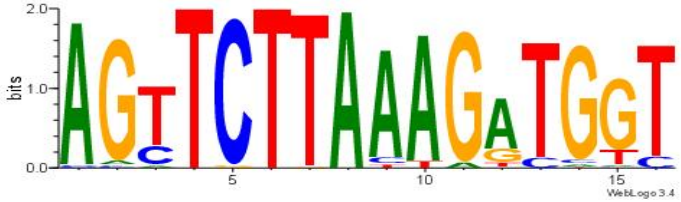

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

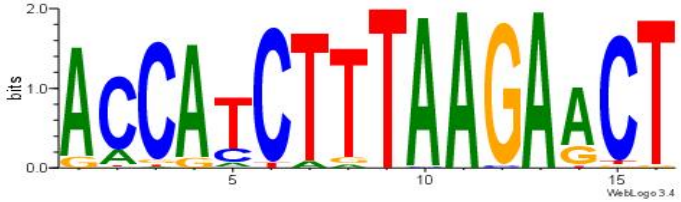

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0844976

Alignment:
CGTCGCTCACGCTGGGAGCT
----------CATCTGTCAC

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

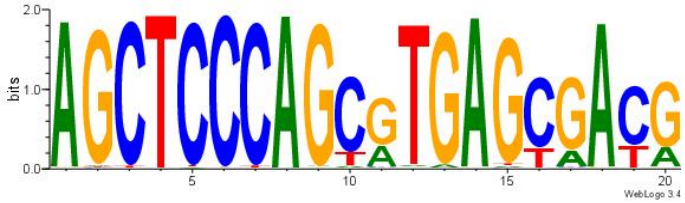

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

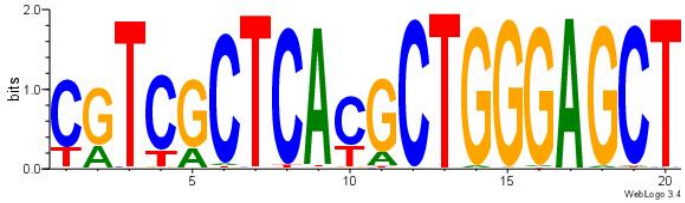

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0853909

Alignment:
CAAGTTGACACATAAAATTA
----GTGACAGATG------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

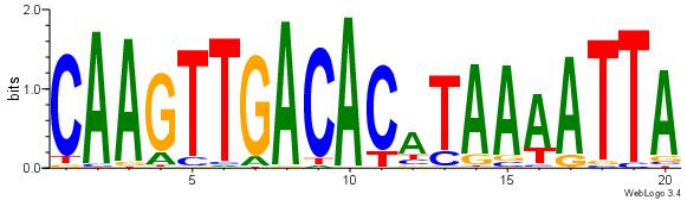

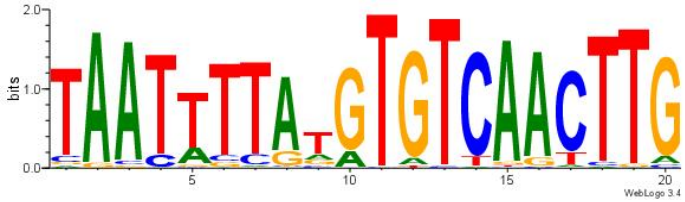

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.085788

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
----CATCTGTCAC------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

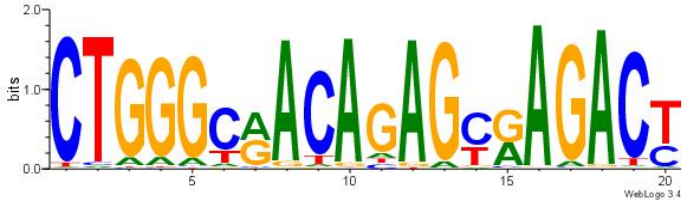

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

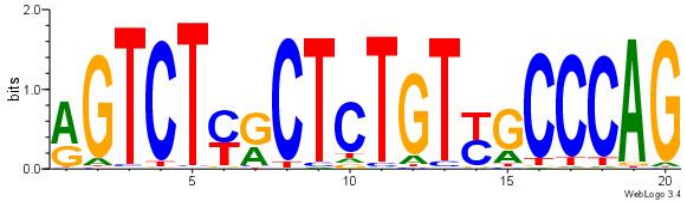

Dataset #:	1

Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0872211

Alignment:

```
CATTTGGGAGCCCATTGA
CATCTGTCAC--------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

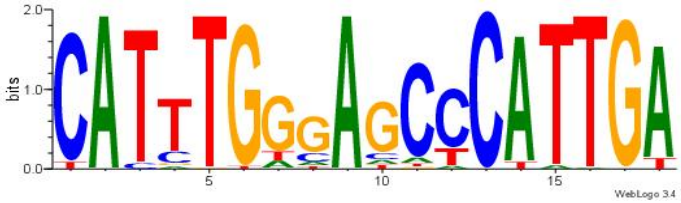

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

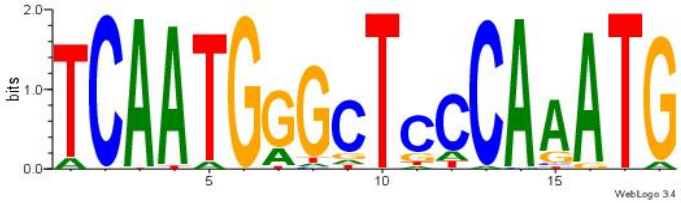

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0876823

Alignment:
AAGTTCTKGGKTACATGTGC
---------GTGACAGATG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

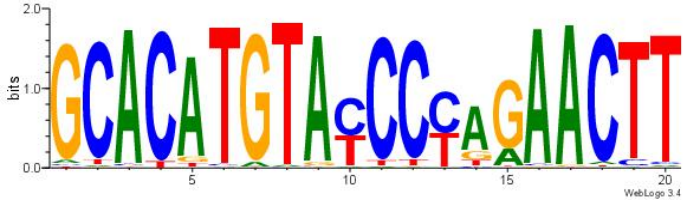

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

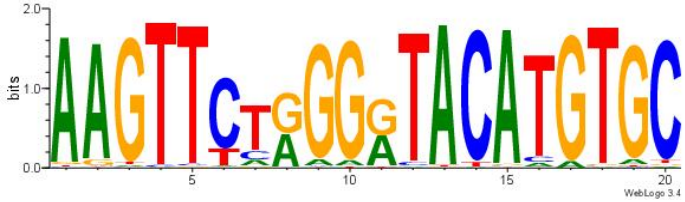

Dataset #: 1
Motif ID: 166
Motif name: Motif 166
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0878978

Alignment:
AAGGGACATTKGAG
--GTGACAGATG--

Original motif Consensus sequence: AAGGGACATTKGAG

Reverse complement motif Consensus sequence: CTCRAATGTCCCT

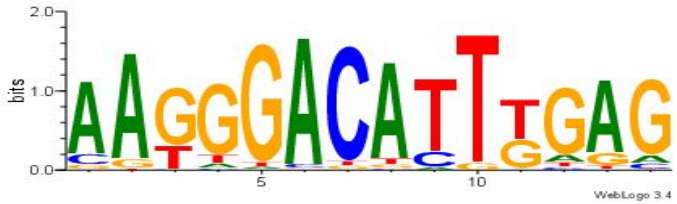

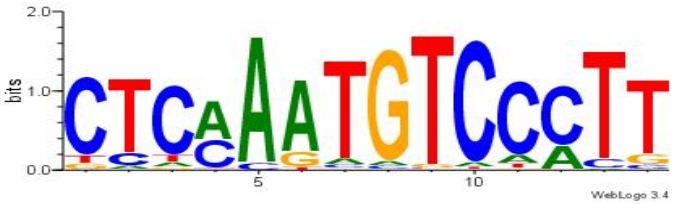

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.0880136

Alignment:

```
CRTGAGCCACYGYRCCYGGC
CATCTGTCAC----------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

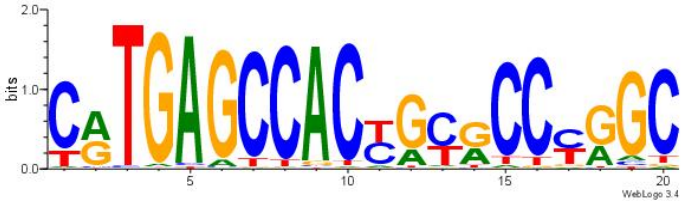

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

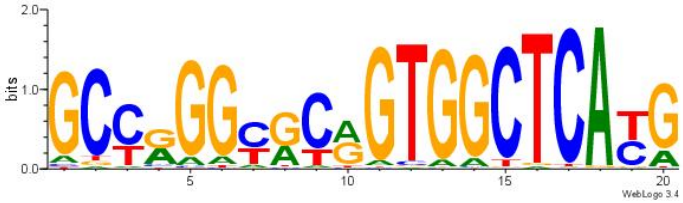

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.0890457

Alignment:

```
TYTGTCMTTTTGTGACTGGC
----CATCTGTCAC------
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

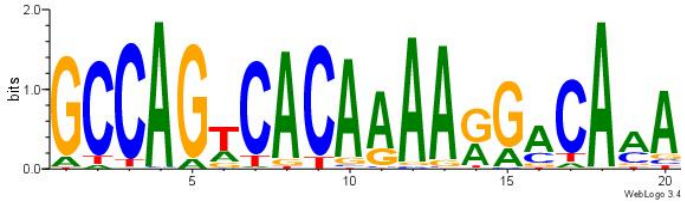

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

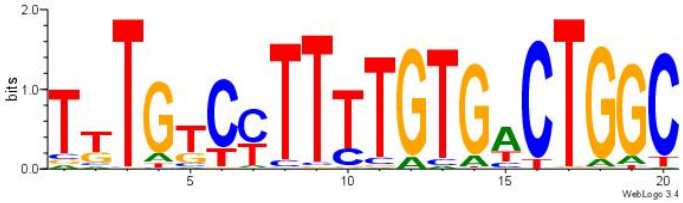

Dataset #:	1
Motif ID:	87
Motif name:	Motif 87
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10

Similarity score: 0.0892474

Alignment:
CATGTGTGTCC
CATCTGTCAC-

Original motif Consensus sequence: CATGTGTGTCC

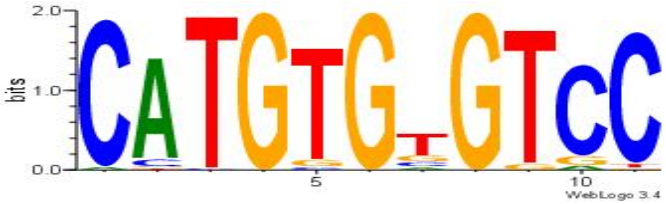

Reverse complement motif Consensus sequence: GGACACACATG

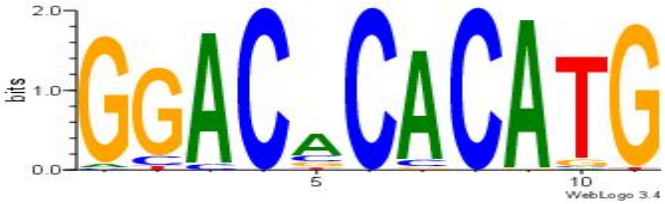

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0896953

Alignment:
AACAACASACACTGGGGCCT
--------CATCTGTCAC--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

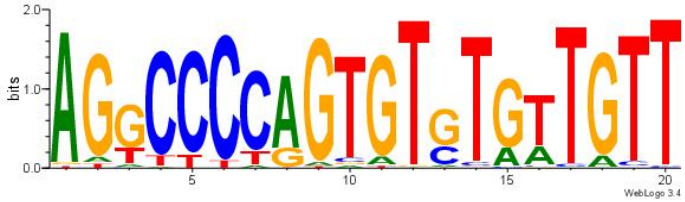

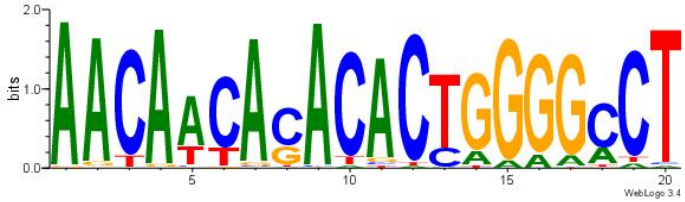

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.090909

Alignment:

```
GGTGATTTCTG
-GTGACAGATG
```

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

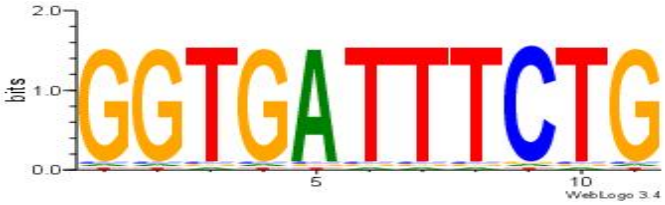

Dataset #:	1
Motif ID:	335

Motif name:	Motif 335
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.090909

Alignment:

```
TCAGCATTAAC
-CATCTGTCAC
```

Original motif Consensus sequence: GTTAATGCTGA

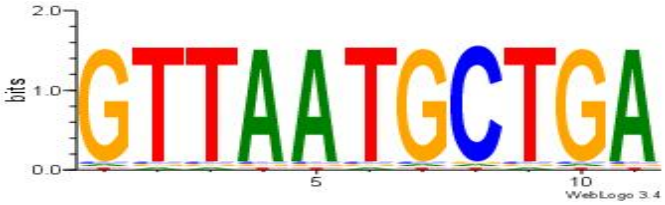

Reverse complement motif Consensus sequence: TCAGCATTAAC

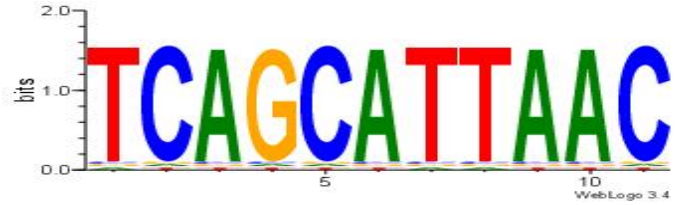

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0924571

Alignment:
CAAASCKGTCATAGGCCAT
--CATCTGTCAC-------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

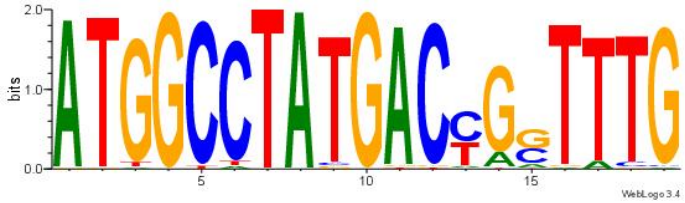

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

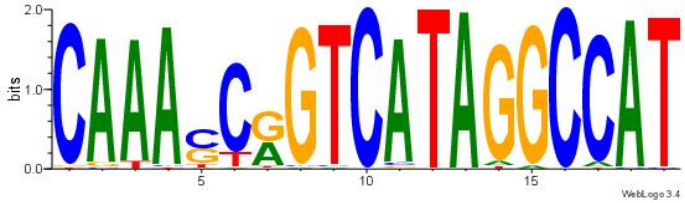

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0926227

Alignment:
AAAATGTGGTAYATAYAYAC
-----GTGACAGATG-----

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

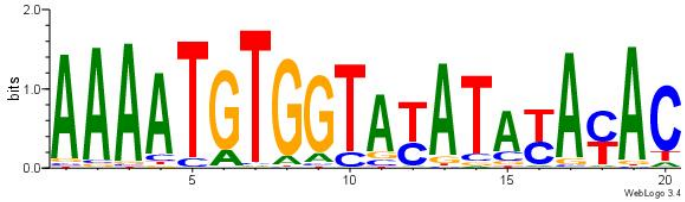

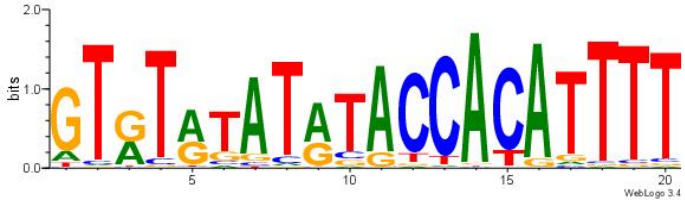

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0931858

Alignment:

```
GCAGCAMTATTCACAATAG
-----CATCTGTCAC----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

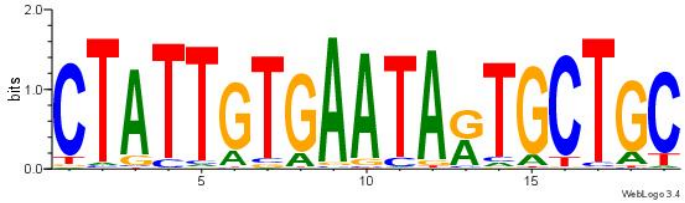

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

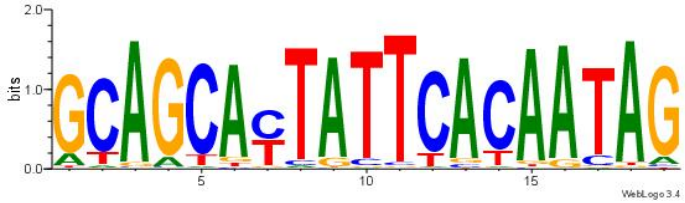

Dataset #: 1

Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0934565

Alignment:

```
CCTAGATTTCAGARGATGT
----GTGACAGATG-----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

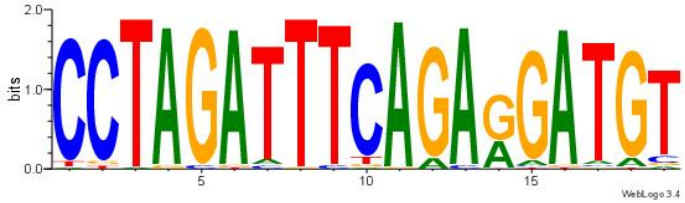

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

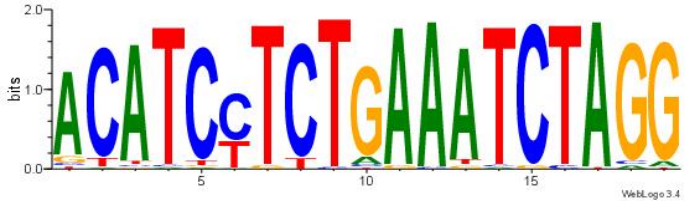

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0941829

Alignment:
CACTTCCCAGACGGGGCG
-----GTGACAGATG---

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

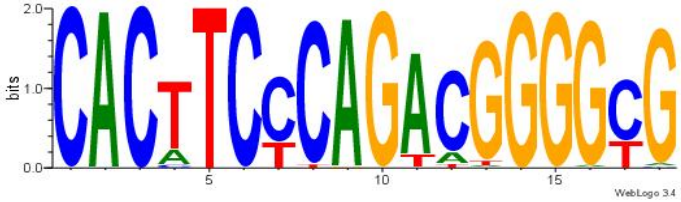

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

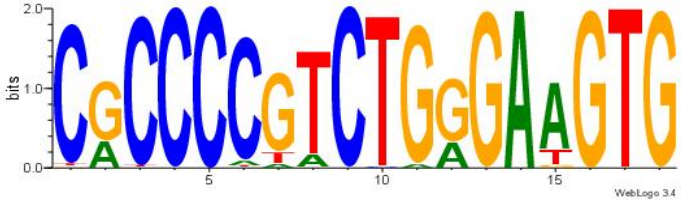

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0959825

Alignment:
ACTCCCTAGTGAGATGAACC
------GTGACAGATG----

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

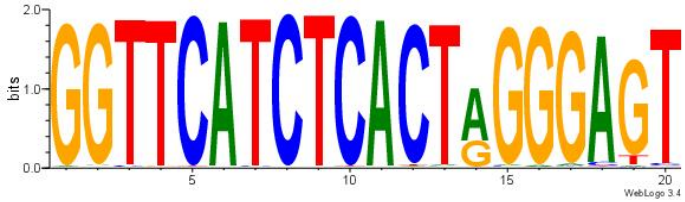

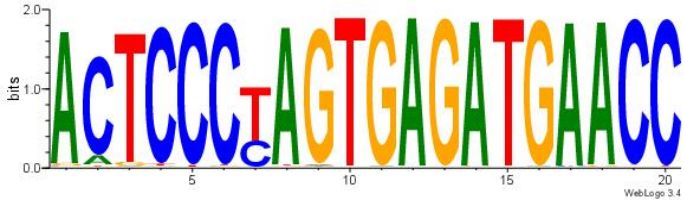

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0962181

Alignment:

```
AATTAAAAGACACAGACTG
--------GTGACAGATG-
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

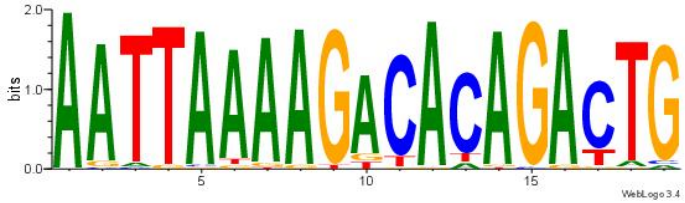

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

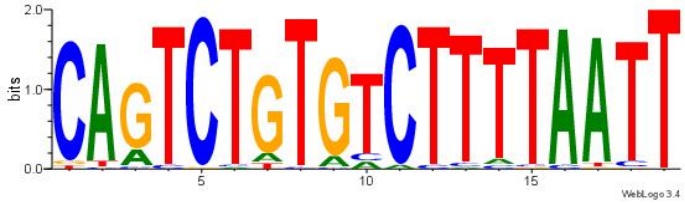

Dataset #: 1

Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0964357

Alignment:

```
TGTGACCTTGG
-GTGACAGATG
```

Original motif Consensus sequence: CCAAGGTCACA

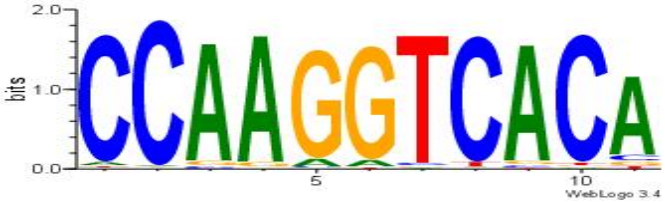

Reverse complement motif Consensus sequence: TGTGACCTTGG

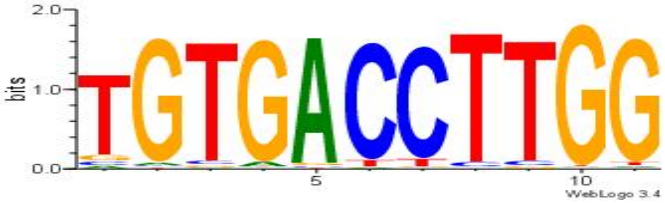

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0966956

Alignment:
GMTTAGCTCCCACTTA
---CATCTGTCAC---

Original motif Consensus sequence: TAAGTGGGAGCTAARC

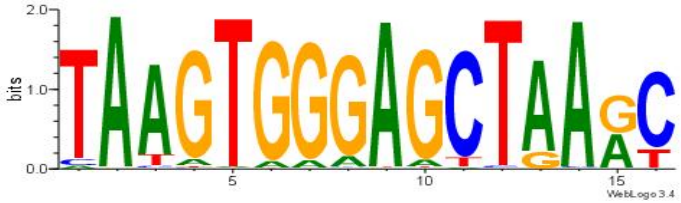

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

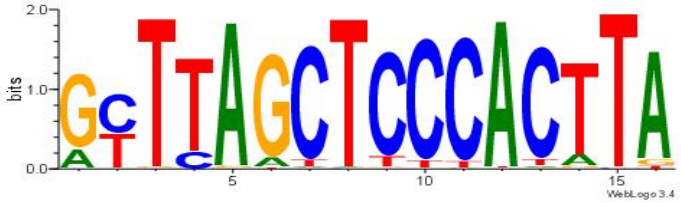

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0968188

Alignment:
GACATGAGCTGGCGCTTG
-----CATCTGTCAC---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

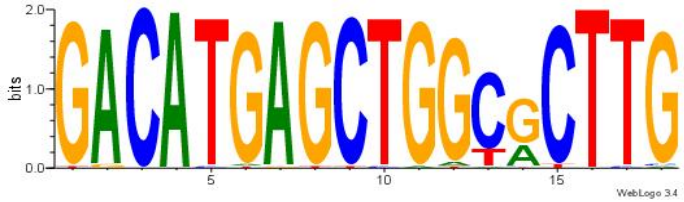

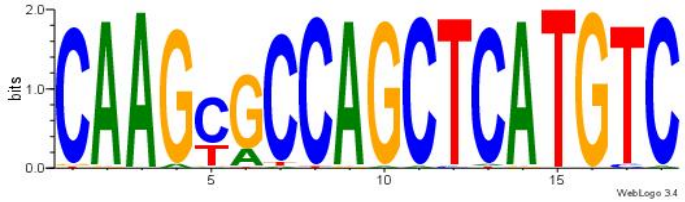

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.097033

Alignment:

```
GCTGTGTGACCTTGGGCAAG
-----GTGACAGATG-----
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

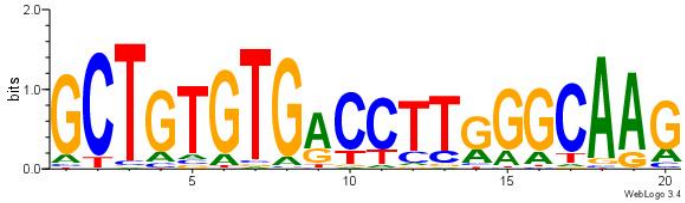

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

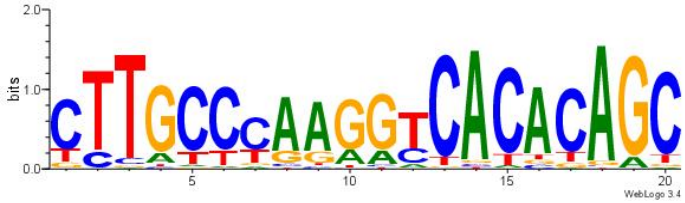

Dataset #:	1

Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0976217

Alignment:

```
AGCTAGAYACAGAGTGC
--GTGACAGATG-----
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

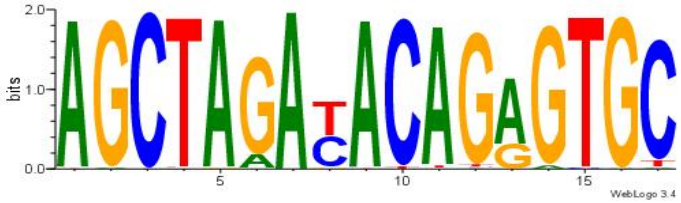

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

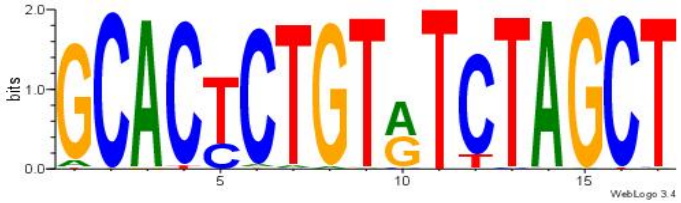

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.0977266

Alignment:
ACTGTCTTCCACCTCCACAT
--CATCTGTCAC--------

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

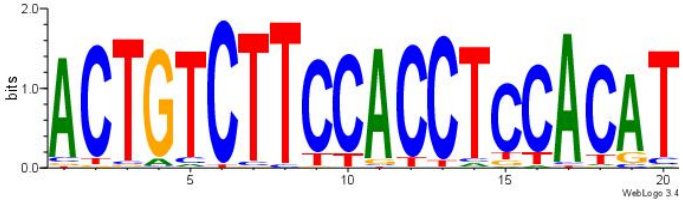

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

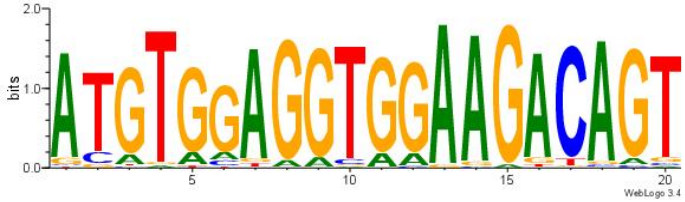

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 11
Number of overlap: 10
Similarity score: 0.097847

Alignment:
CMTAGYACAGTGCCTGGCAC
CATCTGTCAC----------

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

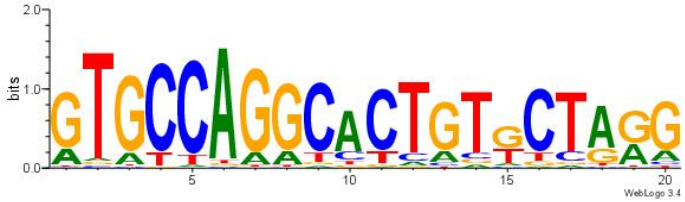

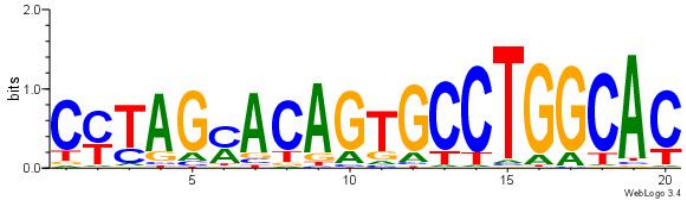

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0979065

Alignment:

```
CTCACAGAGTTAAA
----GTGACAGATG
```

Original motif Consensus sequence: CTCACAGAGTTAAA

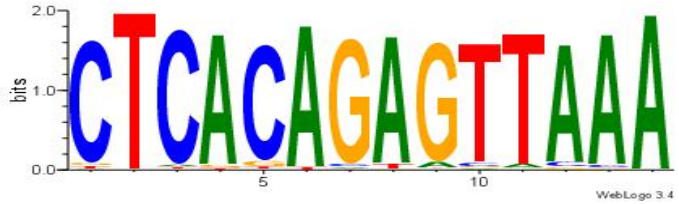

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

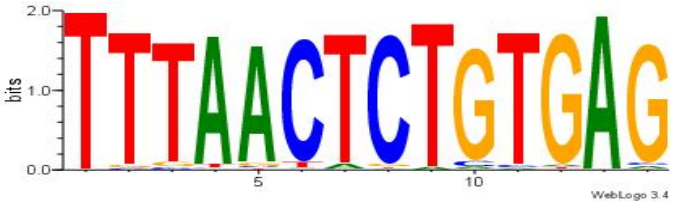

Dataset #:	1
Motif ID:	235

Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0979851

Alignment:

```
TCCAAATGGGAGAAATTGGC
---GTGACAGATG-------
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

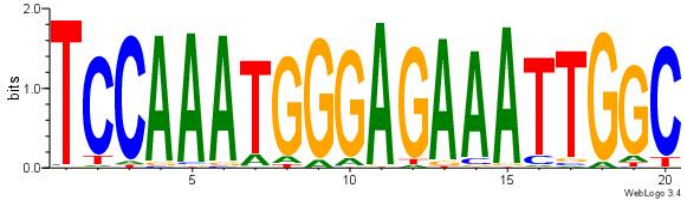

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

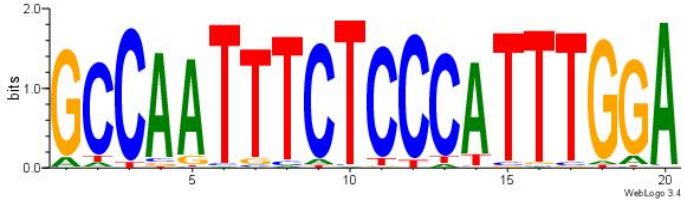

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0982406

Alignment:
CCCAAATCTCATSTTGAAT
--CATCTGTCAC-------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

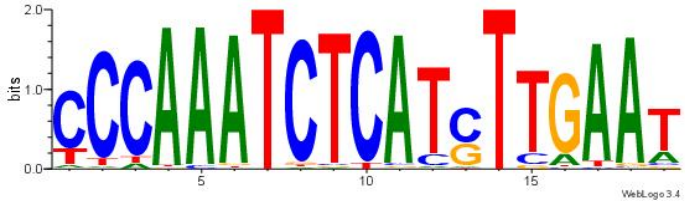

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

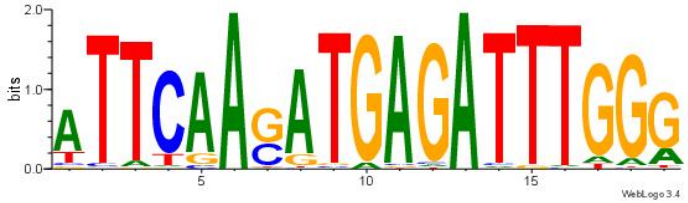

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0984356

Alignment:
CAGCCAGATCRSCC
----GTGACAGATG

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

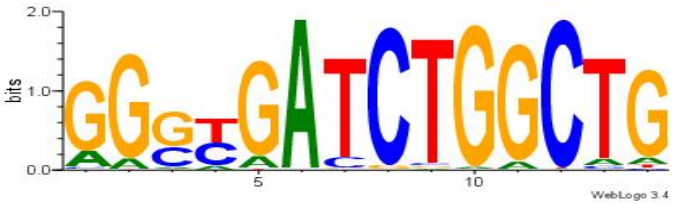

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0986552

Alignment:

```
GCTAATATATCCCTCCC
----CATCTGTCAC---
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

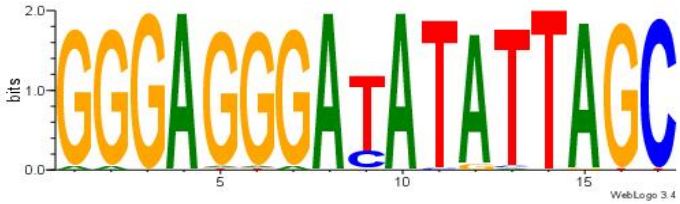

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

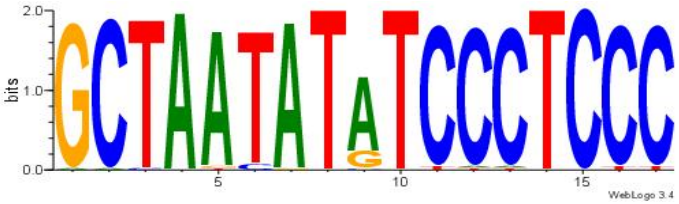

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0986667

Alignment:

```
AGGACTGAGGGTGCCYRGGG
GTGACAGATG----------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

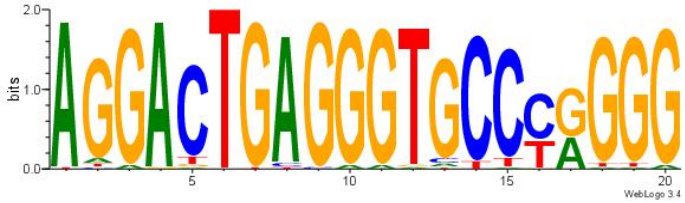

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

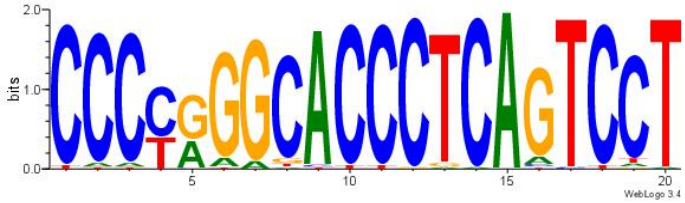

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0988985

Alignment:
ATCCAGTCTATCATTG
----CATCTGTCAC--

Original motif Consensus sequence: ATCCAGTCTATCATTG

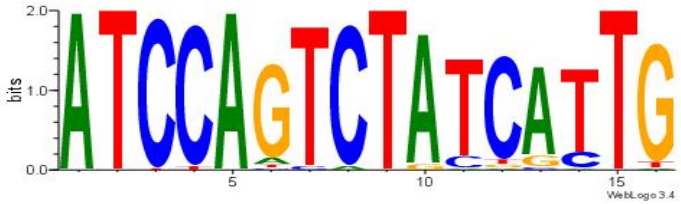

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

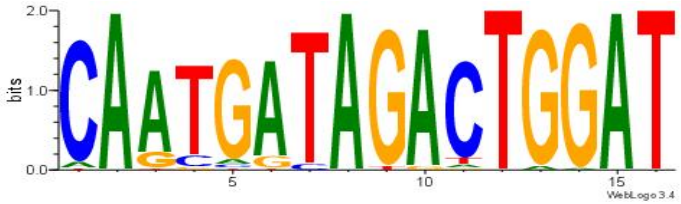

Dataset #: 1
Motif ID: 261
Motif name: Motif 261
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 10
Similarity score: 0.0990085

Alignment:
TAGTGGTGATTTSTGAGAT
-----GTGACAGATG----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

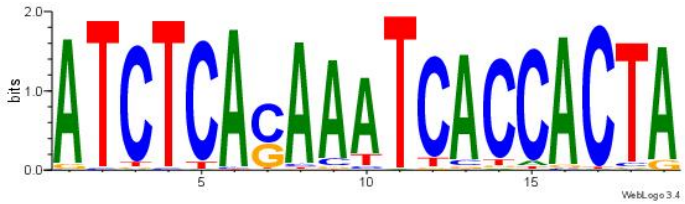

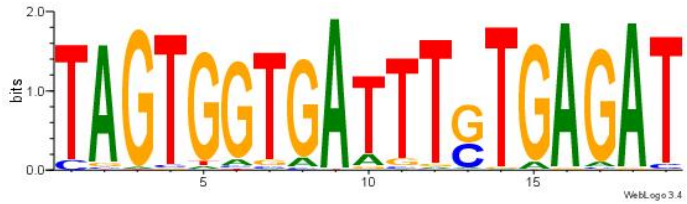

Dataset #: 1 Motif ID: 335 Motif name: Motif 335

Original motif Consensus sequence: GTTAATGCTGA

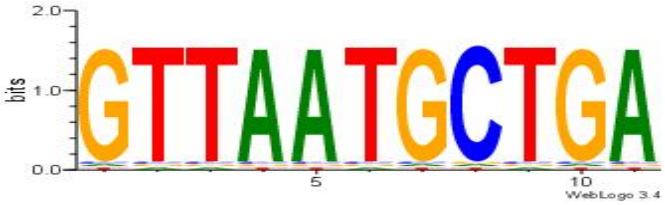

Reverse complement motif Consensus sequence: TCAGCATTAAC

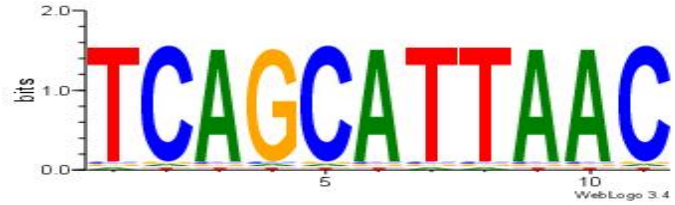

Best Matches for Motif ID 335 (Highest to Lowest)

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.054088

Alignment:

```
ATATTGATGATCCTGACC
-----GTTAATGCTGA--
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

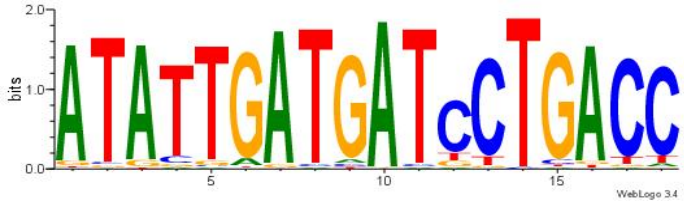

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

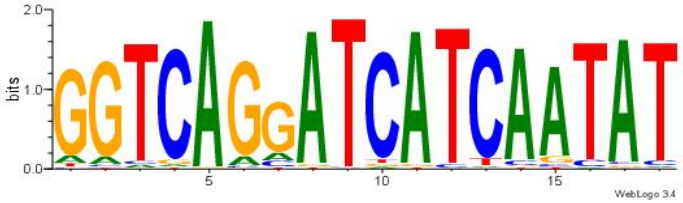

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0564195

Alignment:

```
GACAGGAGATTAACACTGAG
-GTTAATGCTGA--------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

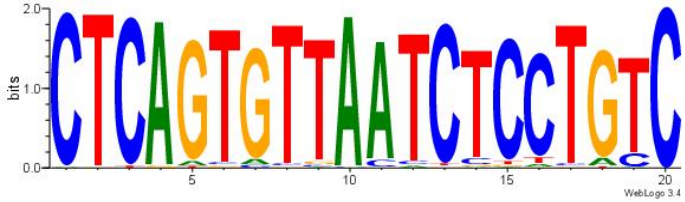

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

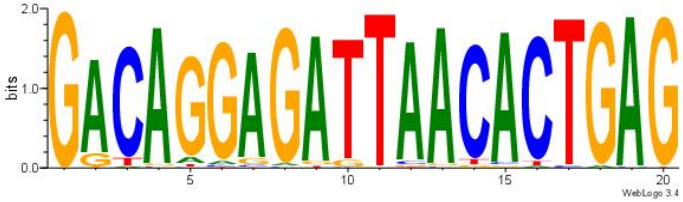

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0591879

Alignment:

```
TGTTATGCCTGAAAGT
----GTTAATGCTGA-
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

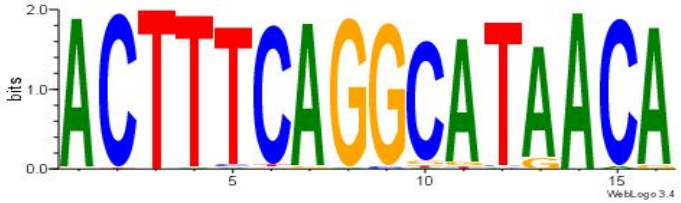

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

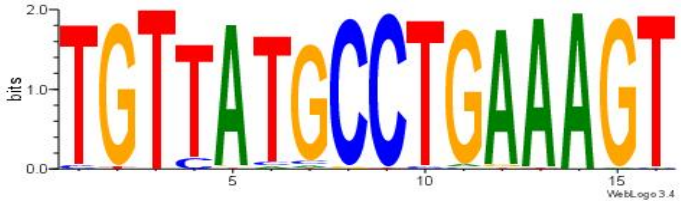

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 11
Similarity score: 0.0655056

Alignment:
ATCTCASAAATCACCACTA
-----TCAGCATTAAC---

Original motif Consensus sequence: ATCTCASAAATCACCACTA

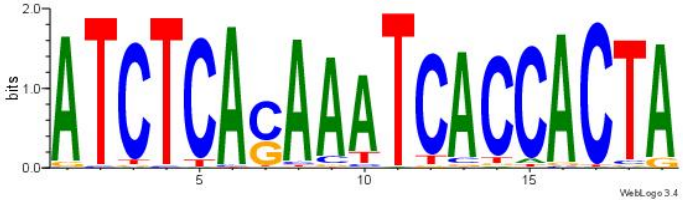

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

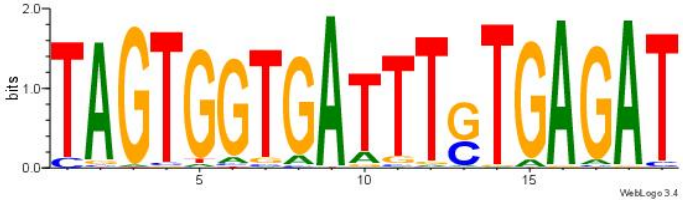

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0670851

Alignment:
GTTGTGAGGATTAAATGAG
----TCAGCATTAAC----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

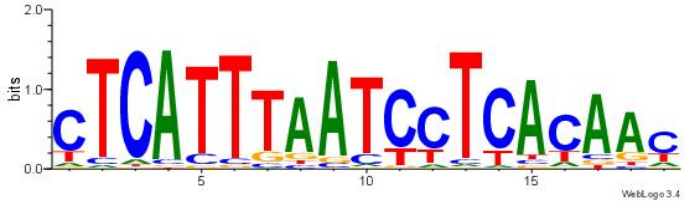

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

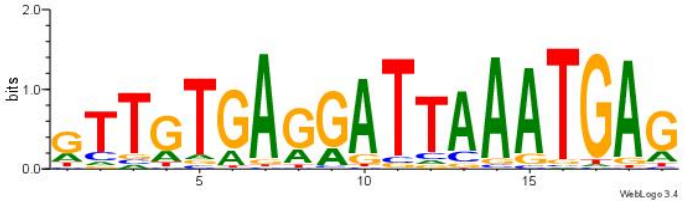

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0701503

Alignment:

```
CTATTGTGAATARTGCTGC
--------GTTAATGCTGA
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

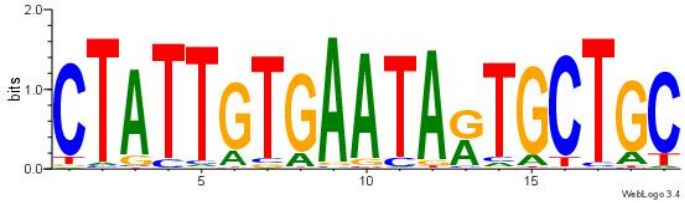

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

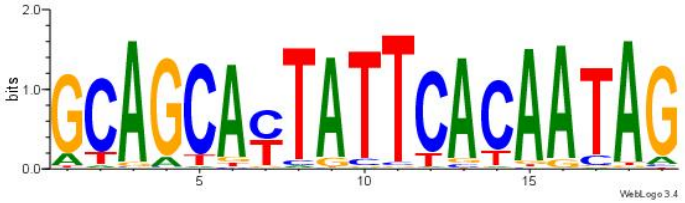

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0704812

Alignment:

```
ATGATCCAGCAATYCCACTH
----TCAGCATTAAC-----
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

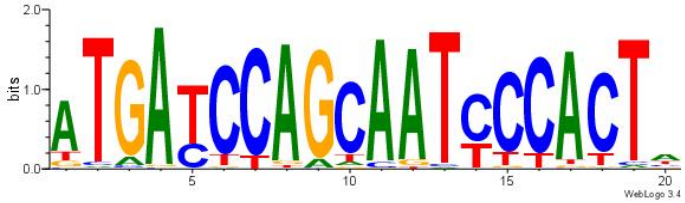

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

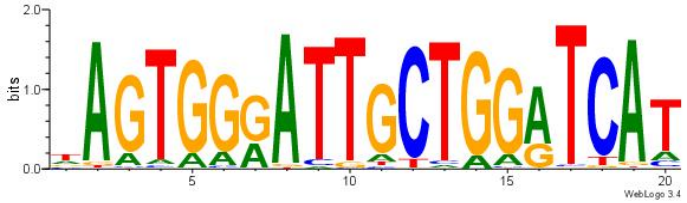

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5

Number of overlap: 11
Similarity score: 0.0715535

Alignment:
ACCATCTTTAAGAACT
-TCAGCATTAAC----

Original motif Consensus sequence: AGTTCTTAAAGATGGT

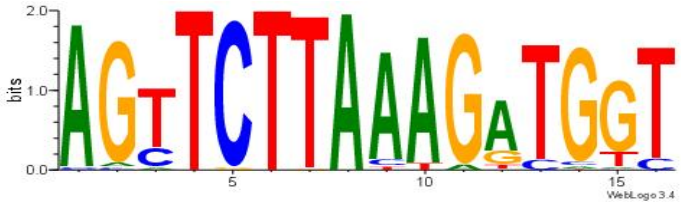

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

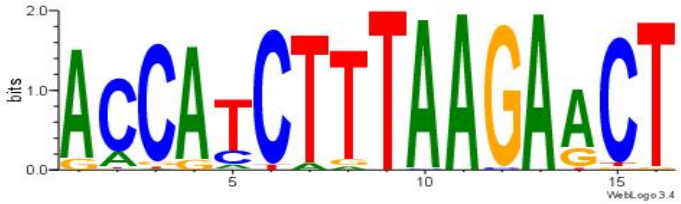

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.074533

Alignment:
GTTAACTGTAAAACAGCCT
GTTAATGCTGA--------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

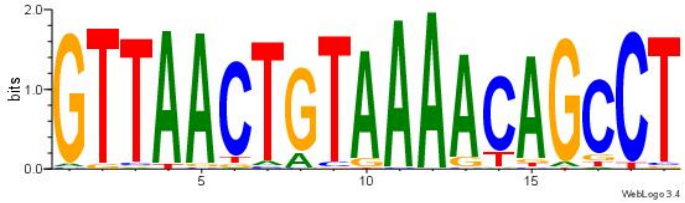

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

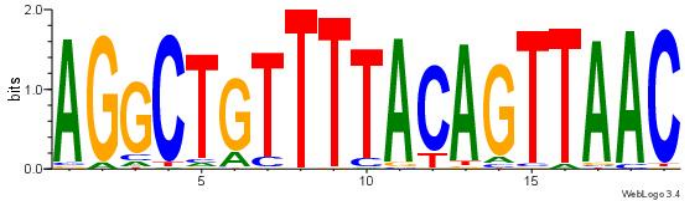

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0755871

Alignment:

```
CAAAGTCTTAACTCATT
-TCAGCATTAAC-----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

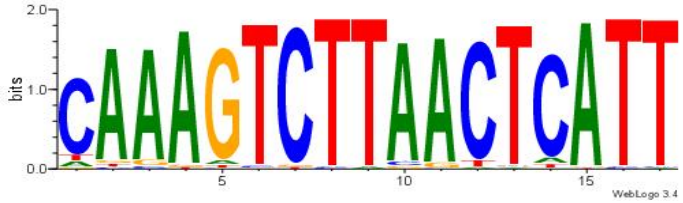

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0762642

Alignment:

```
TTTAACTCTGTGAG
---GTTAATGCTGA
```

Original motif Consensus sequence: CTCACAGAGTTAAA

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

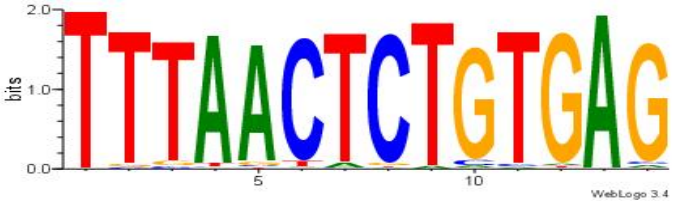

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11

Similarity score: 0.0785659

Alignment:
CGTCGCTCACGCTGGGAGCT
-----GTTAATGCTGA----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

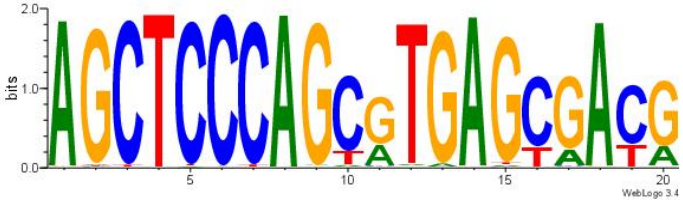

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

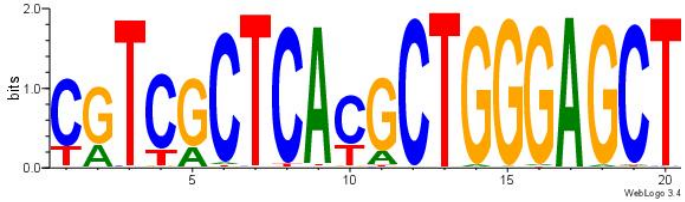

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0790621

Alignment:
CCTGCCATTGCYSAGGCTTG
---GTTAATGCTGA------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

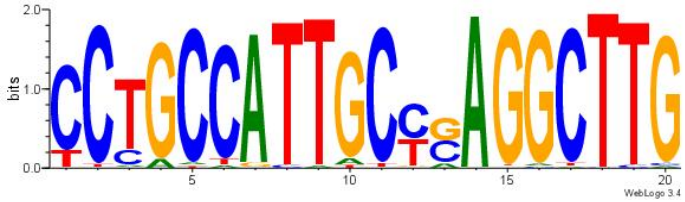

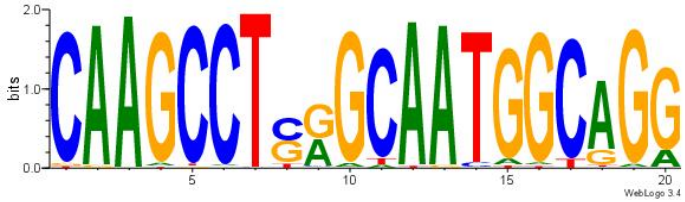

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0796235

Alignment:

```
AGCAGCTGTAAATA
--TCAGCATTAAC-
```

Original motif Consensus sequence: AGCAGCTGTAAATA

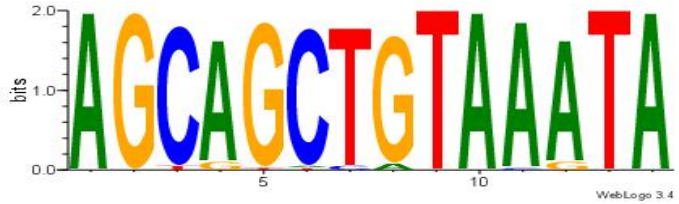

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

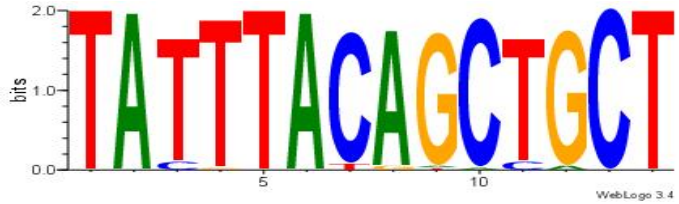

Dataset #:	1
Motif ID:	287

Motif name:	Motif 287
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0800951

Alignment:

```
CATTATGCTAARTG
GTTAATGCTGA---
```

Original motif Consensus sequence: CATTATGCTAARTG

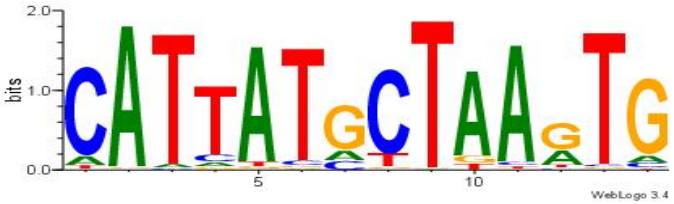

Reverse complement motif Consensus sequence: CAMTTAGCATAAT

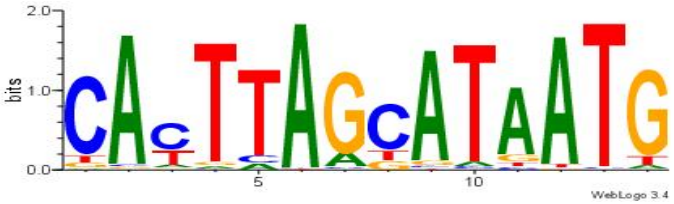

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0801195

Alignment:
CCCAAATCTCATSTTGAAT
TCAGCATTAAC--------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

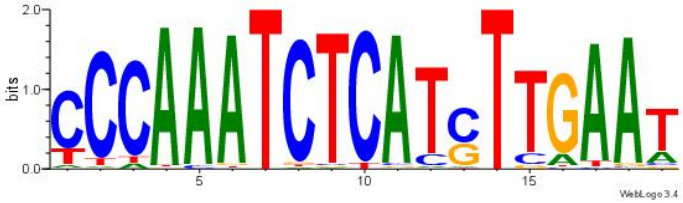

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

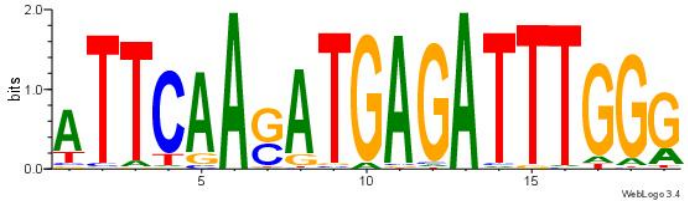

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0803053

Alignment:
TTYTTGTTGTTGTTGTT
-GTTAATGCTGA-----

Original motif Consensus sequence: AACAACAACAACAAMAA

Reverse complement motif Consensus sequence:
TTYTTGTTGTTGTTGTT

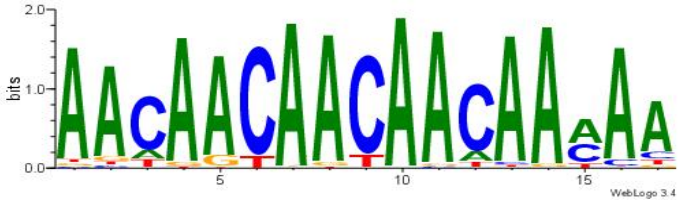

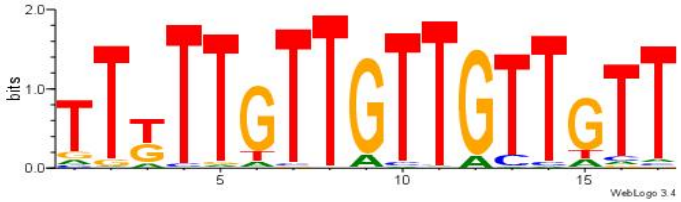

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0807091

Alignment:

```
TGCTGCTGCTGC
GTTAATGCTGA-
```

Original motif Consensus sequence: GCAGCAGCAGCA

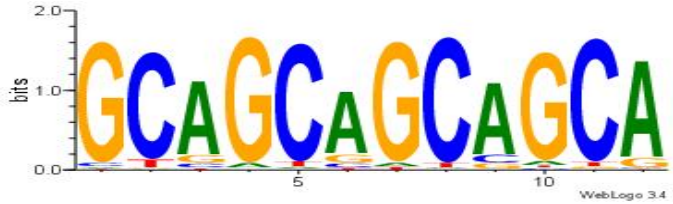

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

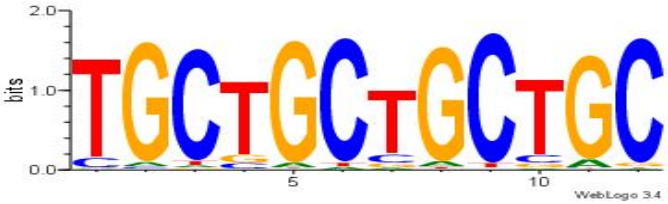

Dataset #:	1
Motif ID:	246

Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.080883

Alignment:

```
GCAGCTTCACTCCTGA
-----GTTAATGCTGA
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

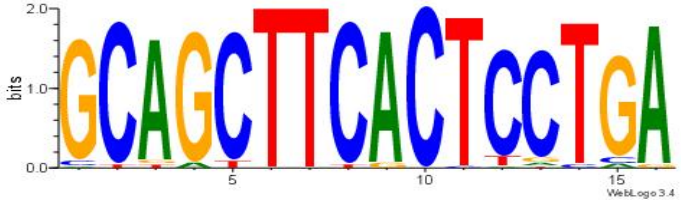

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

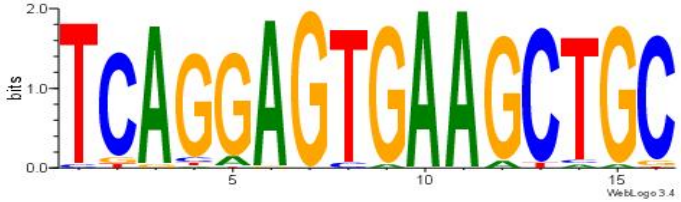

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0825409

Alignment:
CTGGGTCCCCCAGCAGTGCC
TCAGCATTAAC---------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

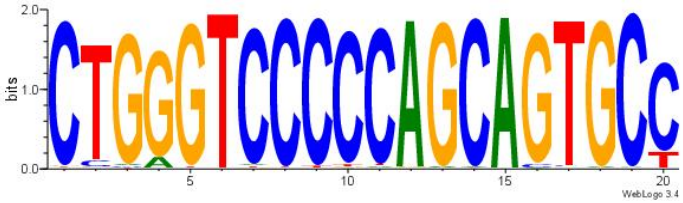

Reverse complement motif Consensus sequence:
GGCACTGCTGGGGGACCCAG

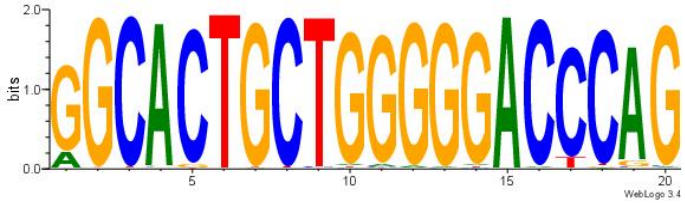

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0825805

Alignment:
AGTAGGTGCTCARTAAATRB
-GTTAATGCTGA--------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

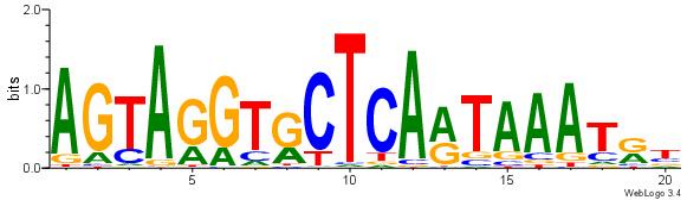

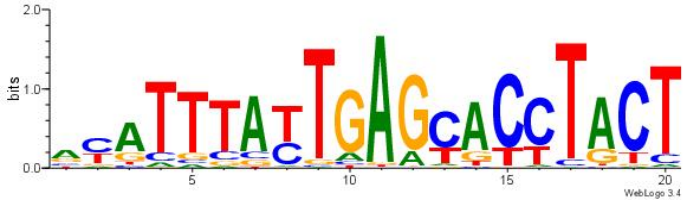

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0844719

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-TCAGCATTAAC--------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

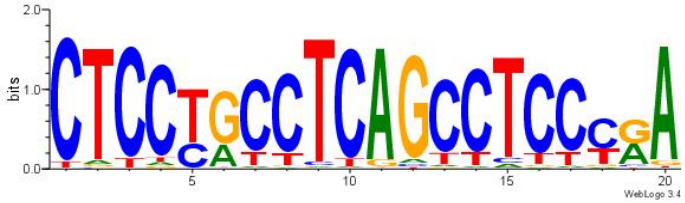

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

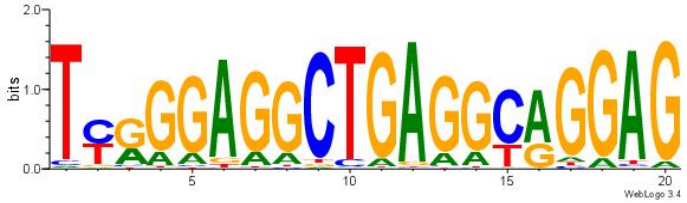

Dataset #:	1

Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0850157

Alignment:

```
GCCCTCACCAGAAGC
TCAGCATTAAC----
```

Original motif Consensus sequence: GCCCTCACCAGAAGC

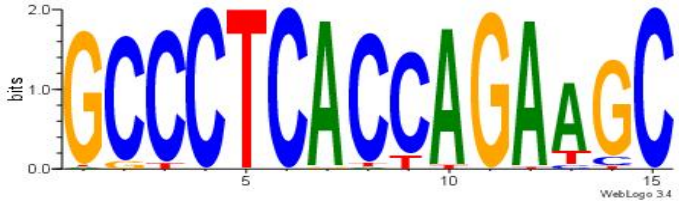

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

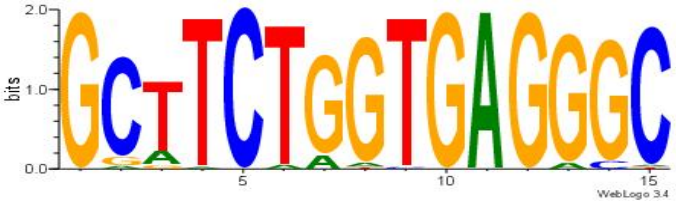

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0868367

Alignment:
AAAATCACAAGCATTCCTAT
--TCAGCATTAAC-------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

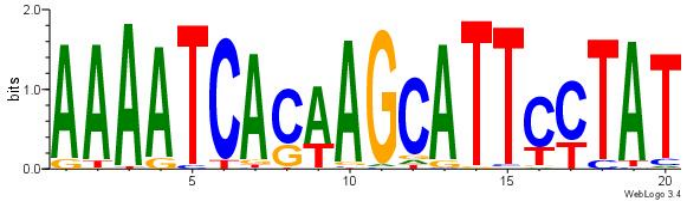

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

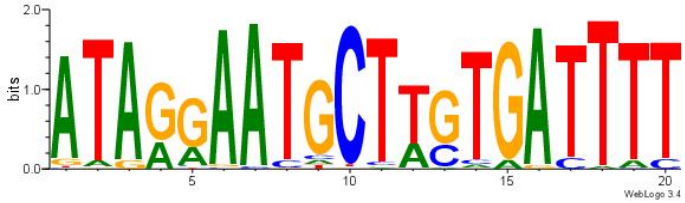

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0870876

Alignment:
CTGGCCCTCAATGGTTAAAC
------GTTAATGCTGA---

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

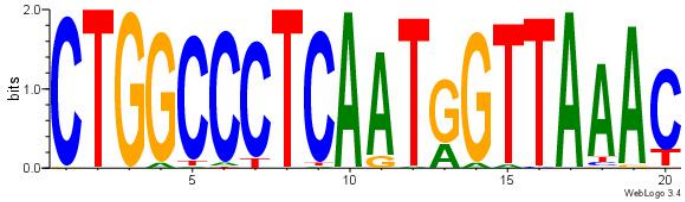

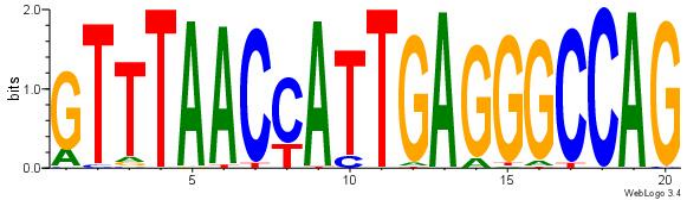

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0897592

Alignment:

```
GAAAAGCGCAGTATTMGGG
-TCAGCATTAAC-------
```

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

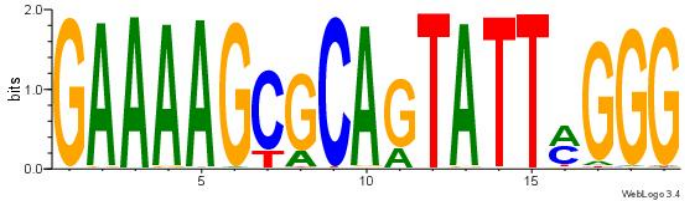

Reverse complement motif Consensus sequence: CCCYAATACTGCGCTTTTC

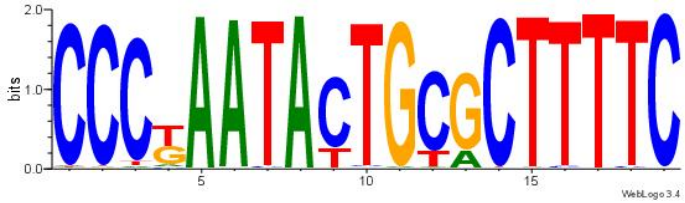

Dataset #: 1

Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0911211

Alignment:

```
RCAGTGTACACTGY
---TCAGCATTAAC
```

Original motif Consensus sequence: RCAGTGTACACTGY

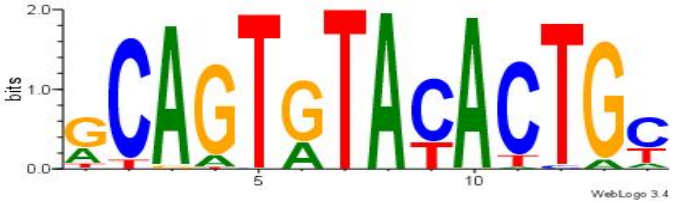

Reverse complement motif Consensus sequence: KCAGTGTACACTG

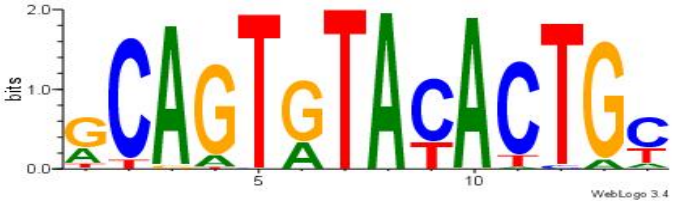

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0921844

Alignment:
CAGGTGGTKTTTGGTTACAT
------GTTAATGCTGA---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

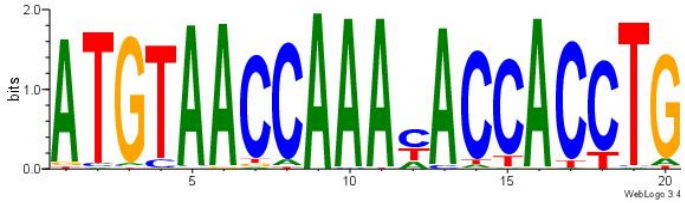

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

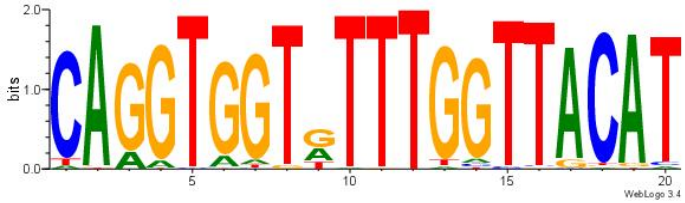

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0921982

Alignment:
AGGTCCTTCAGGAGGTATTC
--TCAGCATTAAC-------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

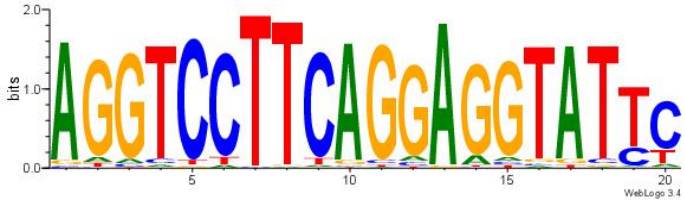

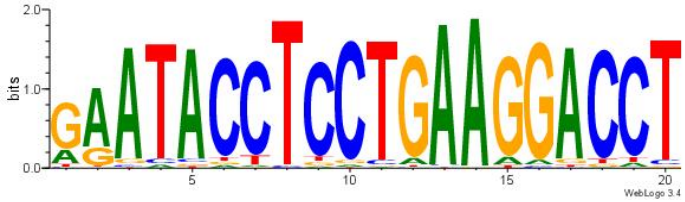

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0926399

Alignment:

```
GCACATGTAYCCYAGAACTT
--TCAGCATTAAC-------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

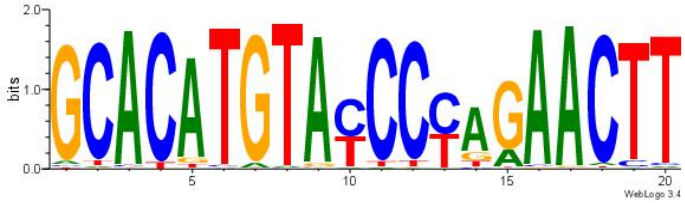

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

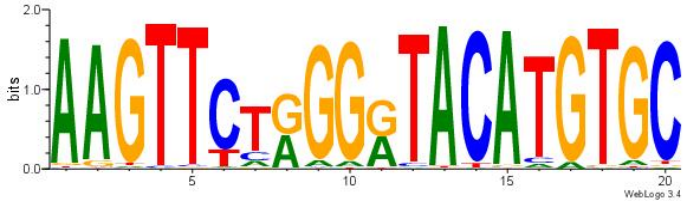

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0932082

Alignment:

```
ACACATCACAAAGCAGTTTC
-------TCAGCATTAAC--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

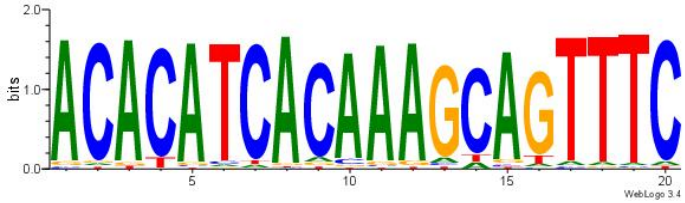

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

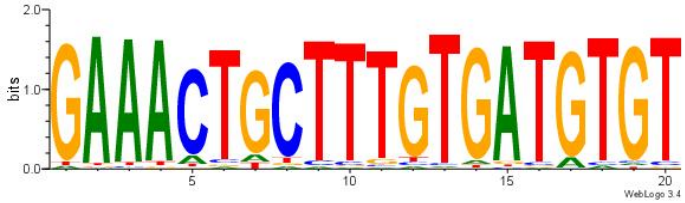

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.0938852

Alignment:
GAAGGCAGCTAAGGCCCGGY
-------GTTAATGCTGA--

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

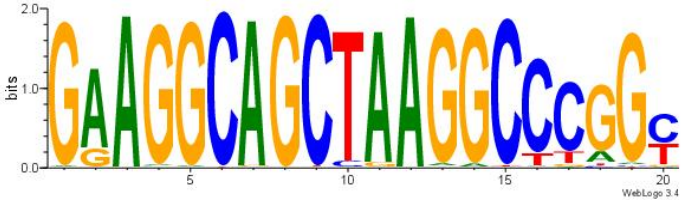

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

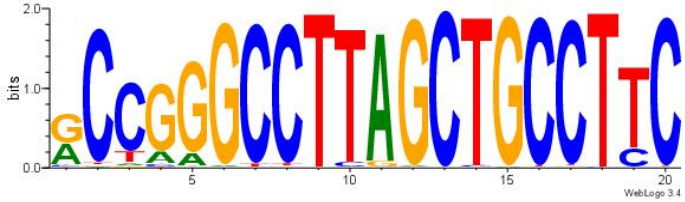

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0941564

Alignment:
CCCACGCCCACCCGGAACT
-------TCAGCATTAAC-

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

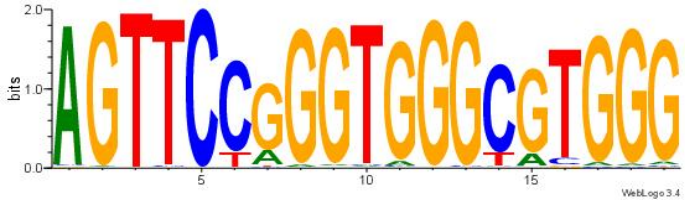

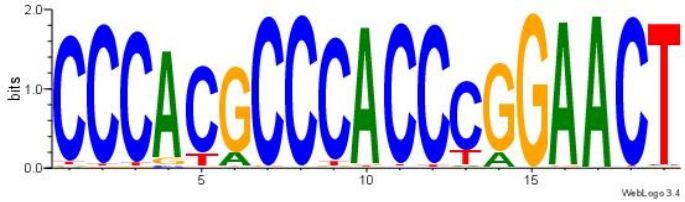

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0942029

Alignment:

```
ACTGTCTTCCACCTCCACAT
--TCAGCATTAAC-------
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

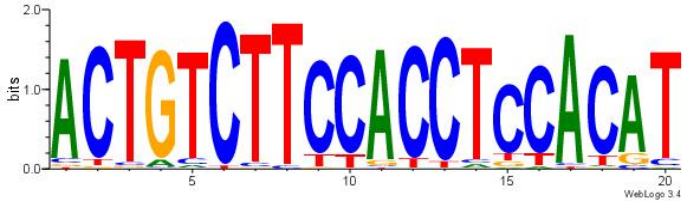

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

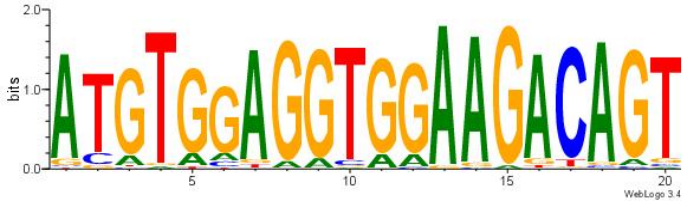

Dataset #:	1

Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0944536

Alignment:

```
KACATTGATTTTGTATC
---GTTAATGCTGA---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

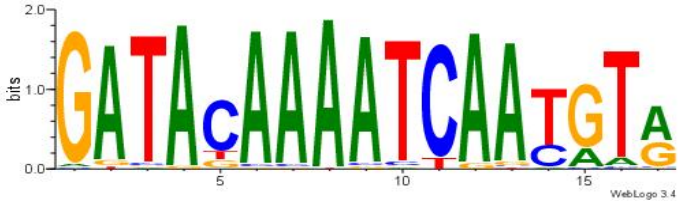

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

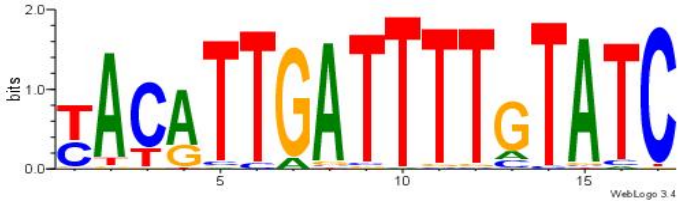

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11

Similarity score: 0.0944838

Alignment:
CGGCTTCATTCTTGAAGTC
----GTTAATGCTGA----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

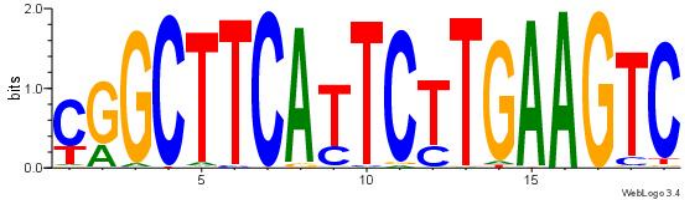

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0946584

Alignment:
AATCAACCCTGGYRATCAAT
-GTTAATGCTGA--------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

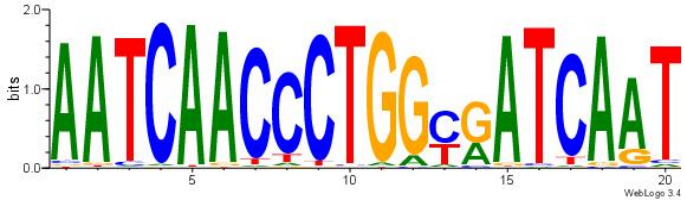

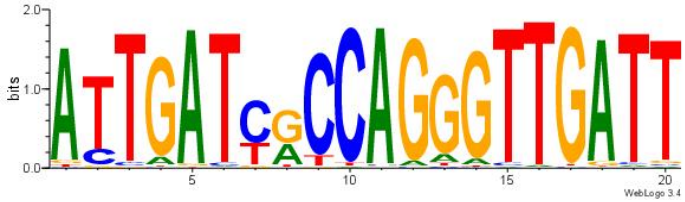

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0949317

Alignment:

```
TAAGTGGGAGCTAARC
---GTTAATGCTGA--
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

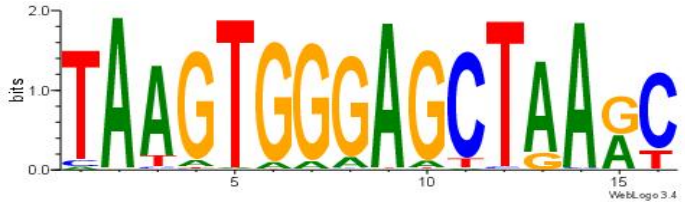

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

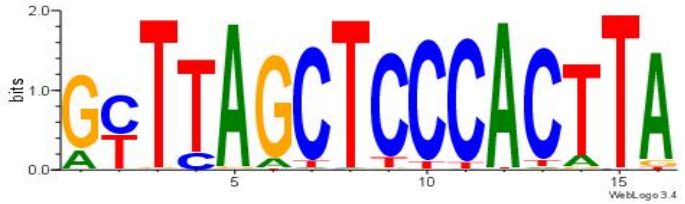

Dataset #:	1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0955581

Alignment:

```
TTCAMTCATGATTTGGCTCT
GTTAATGCTGA---------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

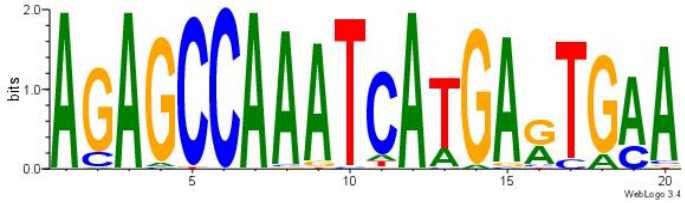

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

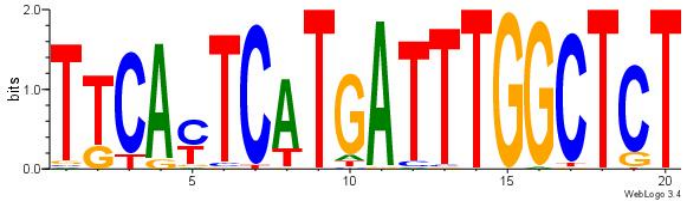

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.0961734

Alignment:
GCTGATAAAGAC
GTTAATGCTGA-

Original motif Consensus sequence: GCTGATAAAGAC

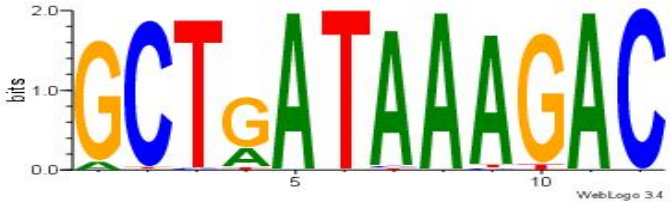

Reverse complement motif Consensus sequence: GTCTTTATCAGC

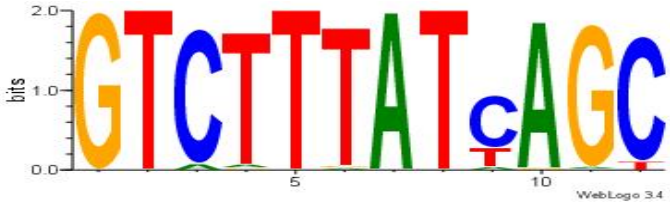

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.09633

Alignment:
GGTTTTCCATTCCTGAG
-GTTAATGCTGA-----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

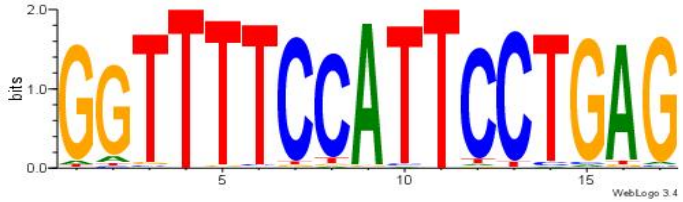

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0963462

Alignment:

```
TAATTTTATGTGTCAACTTG
------TCAGCATTAAC---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

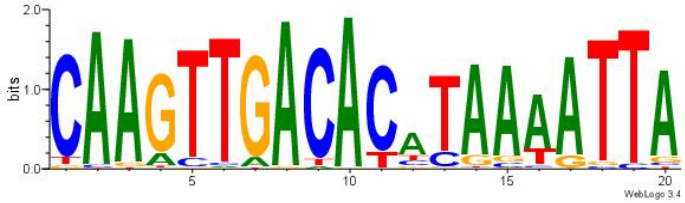

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

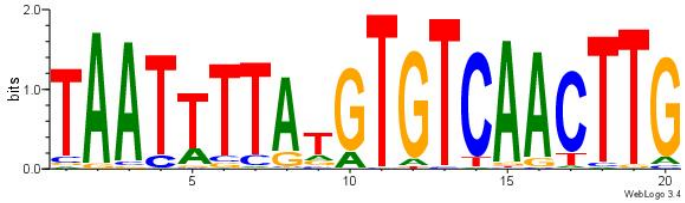

Dataset #: 1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0964051

Alignment:

```
AGAGCTCTGGCTGGCATCT
-----GTTAATGCTGA---
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

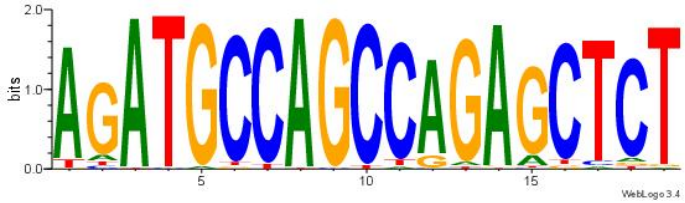

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

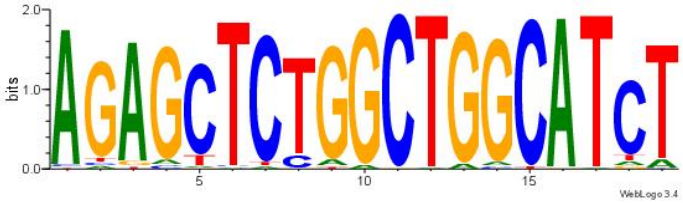

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0968596

Alignment:
MGCTGAGGCAGGAG
--GTTAATGCTGA-

Original motif Consensus sequence: CTCCTGCCTCAGCY

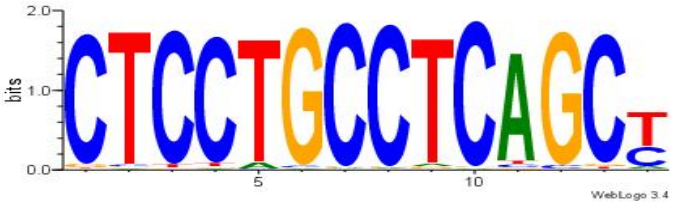

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

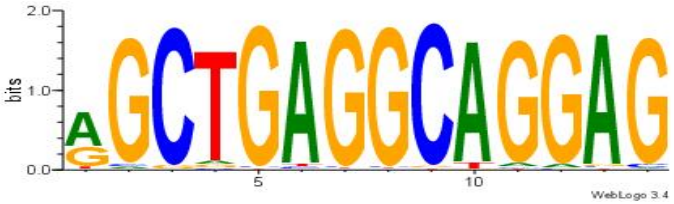

Dataset #: 1
Motif ID: 12
Motif name: Motif 12
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0969977

Alignment:
GTTGGCCAGGCTGGTCT
---GTTAATGCTGA---

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

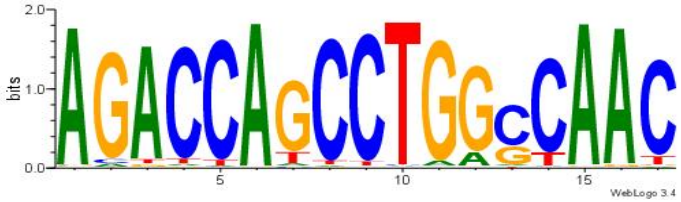

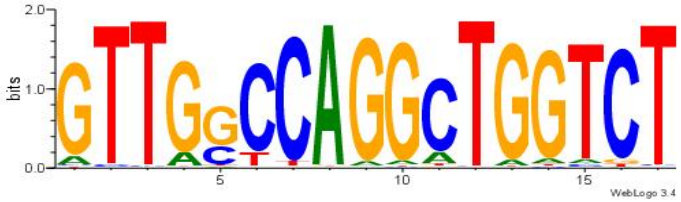

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0971438

Alignment:

```
ATCATTCTTATGCCTTTG
-TCAGCATTAAC------
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

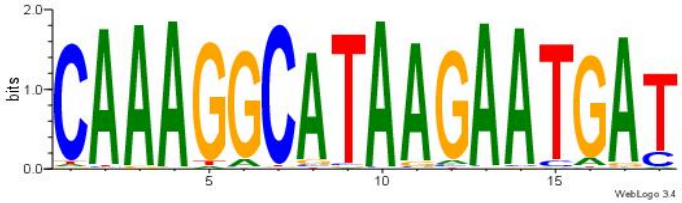

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

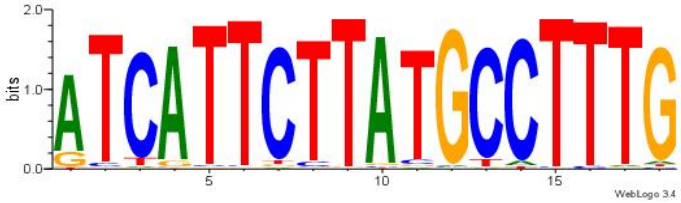

Dataset #: 1

Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.097874

Alignment:

```
GTGGGTGCAGTGCA
---GTTAATGCTGA
```

Original motif Consensus sequence: TGCACTGCACCCAC

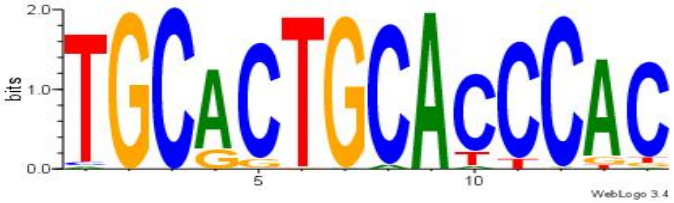

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

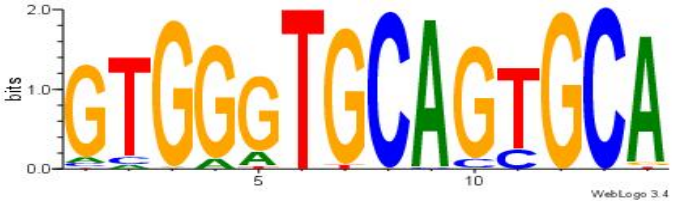

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0978767

Alignment:
GGTGCCAGCTGT
GTTAATGCTGA-

Original motif Consensus sequence: ACAGCTGGCACC

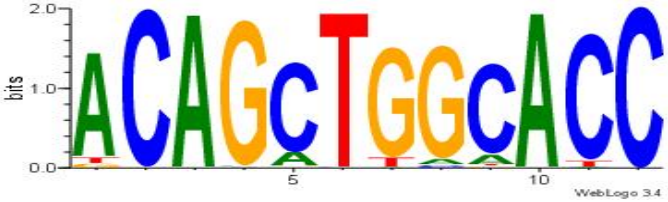

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

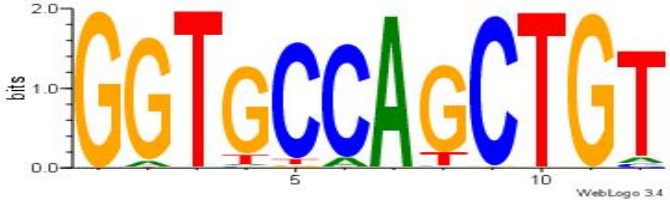

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0982117

Alignment:
TCCTATGAGAATCTAATG
-----TCAGCATTAAC--

Original motif Consensus sequence: CATTAGATTCTCATAGGA

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

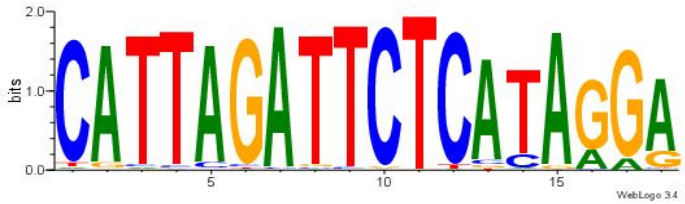

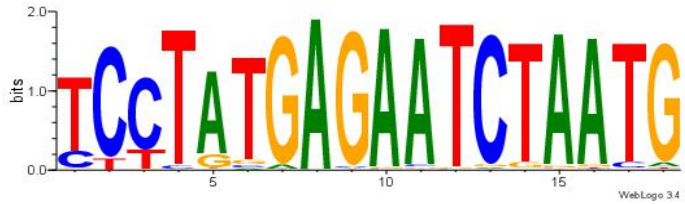

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0988919

Alignment:

```
GCCGTTTKTTAAGCCCGTY
-------GTTAATGCTGA-
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

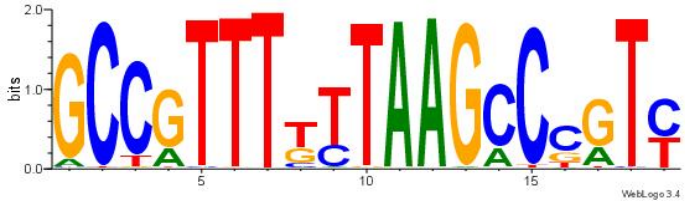

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

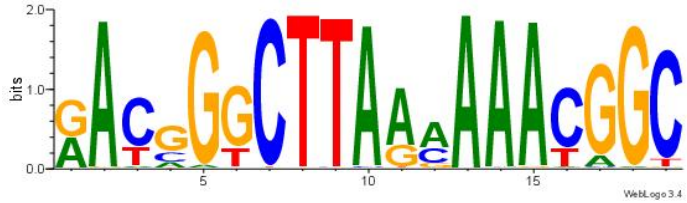

Dataset #: 1 Motif ID: 336 Motif name: Motif 336

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

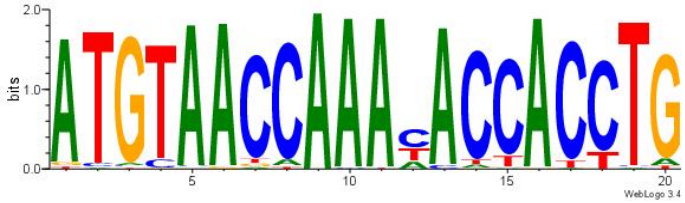

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

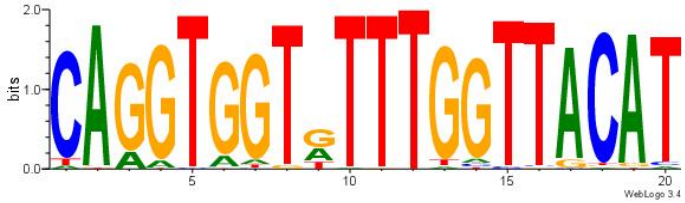

Best Matches for Motif ID 336 (Highest to Lowest)

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.108577

Alignment:

```
GTTTAACCATTGAGGGCCAG
ATGTAACCAAAYACCACCTG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

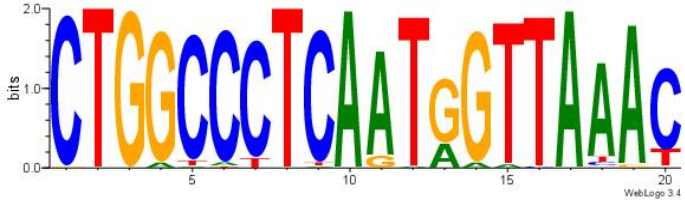

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

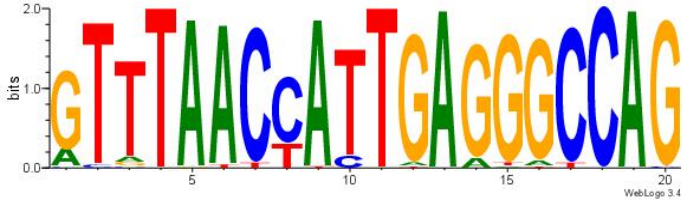

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.115891

Alignment:

```
ATGGCTGAATAKTATTCCAT
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

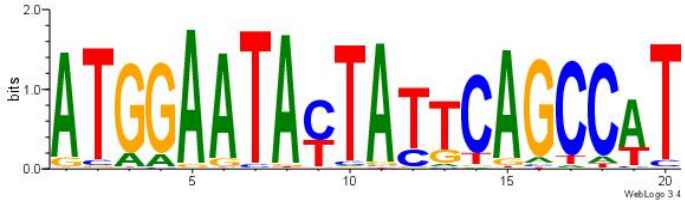

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

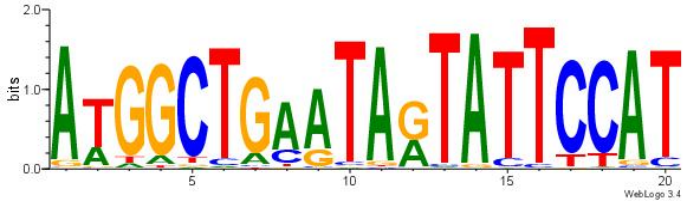

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

Position number: 1
Number of overlap: 20
Similarity score: 0.123315

Alignment:
HAGTGGKATTGCTGGATCAT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

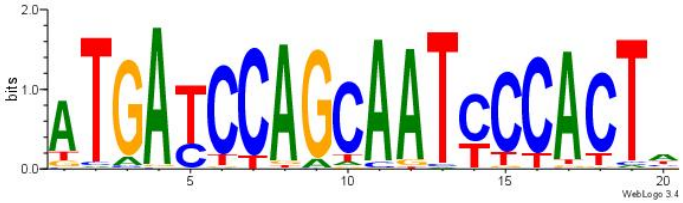

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

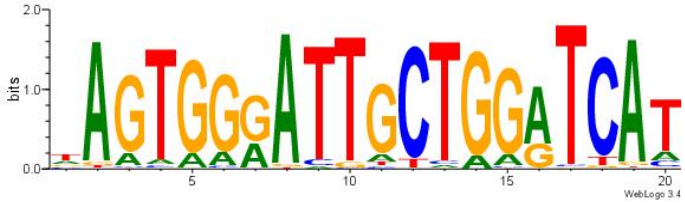

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.123723

Alignment:
GTGTCKGGAGTTTGTTCCTT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

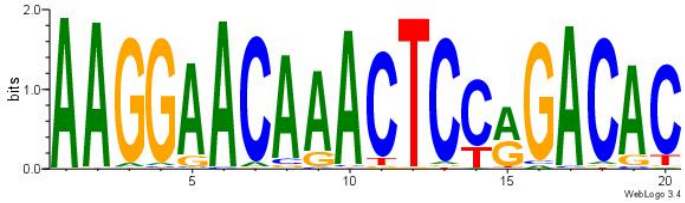

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

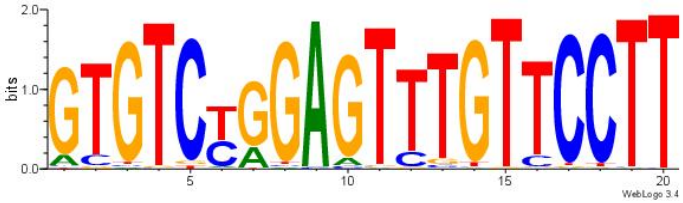

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.127587

Alignment:

```
AAATTACCCAGTCTCAGGTA
ATGTAACCAAAYACCACCTG
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

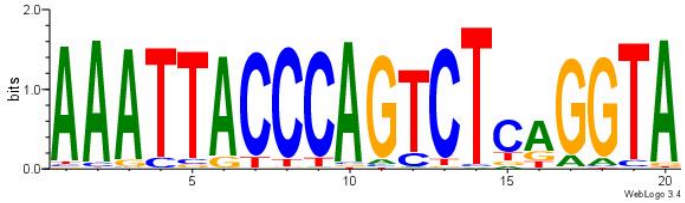

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

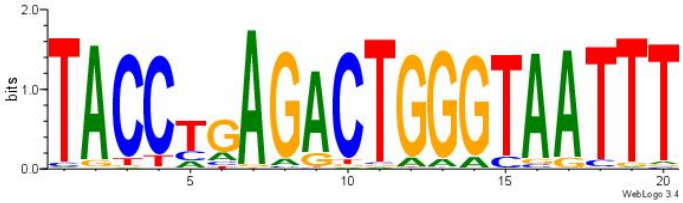

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.129566

Alignment:
GTCTCWAMAAAAAAWAMAAA
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

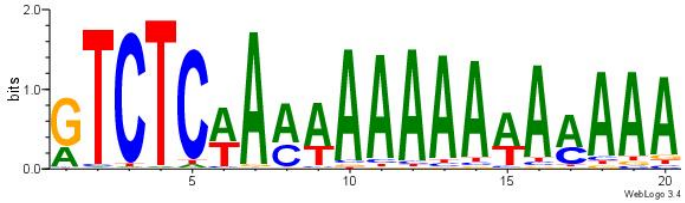

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

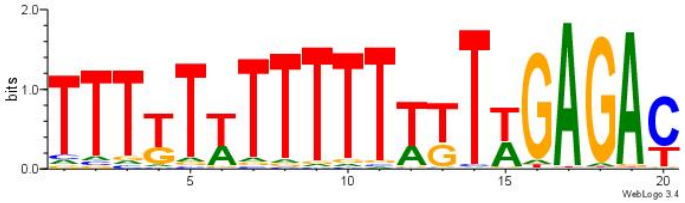

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.130365

Alignment:
AAAATGTGGTAYATAYAYAC
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

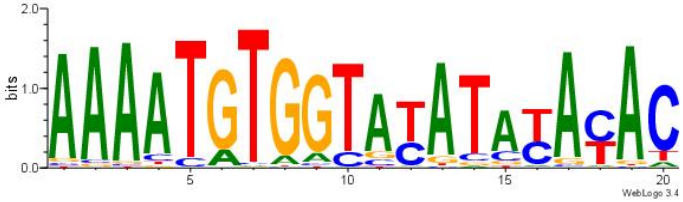

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

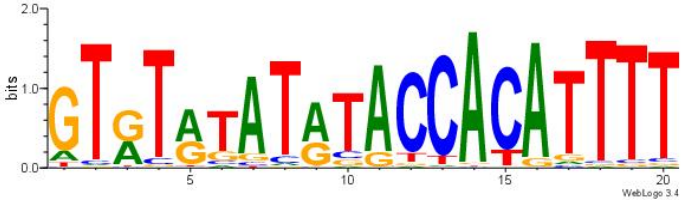

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.131848

Alignment:
CCGCTGCACTGTGGGAGCCC
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

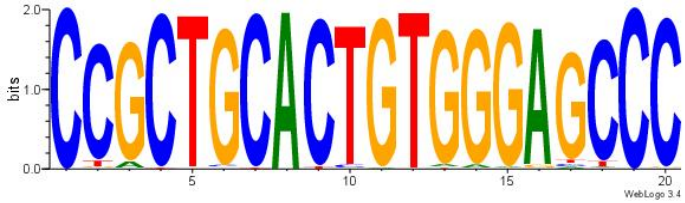

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

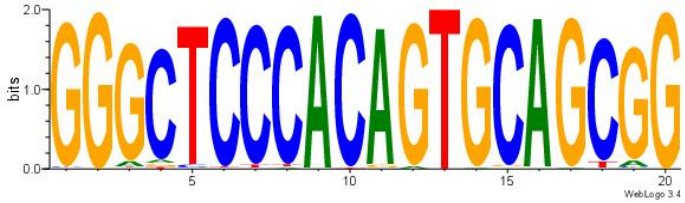

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.133882

Alignment:

```
CACCAGGAGATTATATCCCR
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

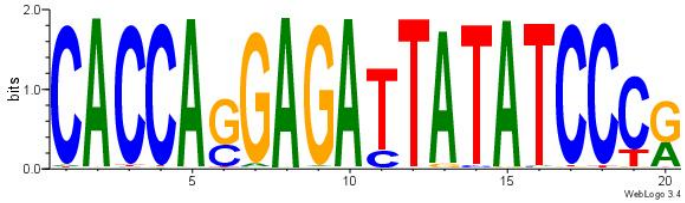

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

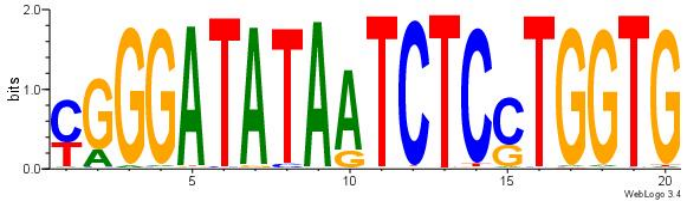

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13637

Alignment:

```
ACTTTGGACTGTGGACTTTT
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

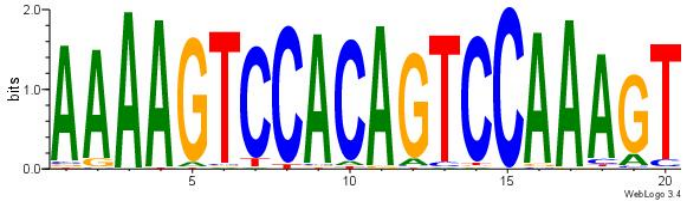

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

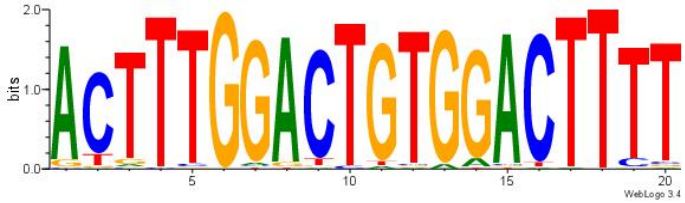

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.136888

Alignment:
AAGCTCGAACTGGGTGGAGC
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

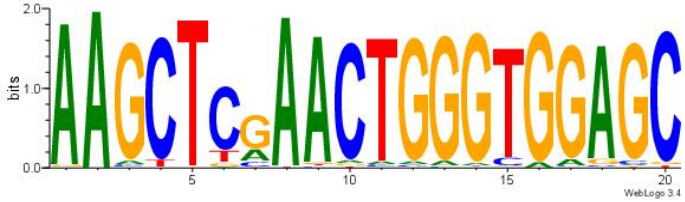

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

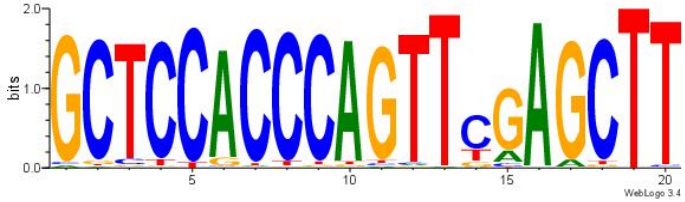

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143032

Alignment:
CAAGGGTATAYGAGTAGCTG
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

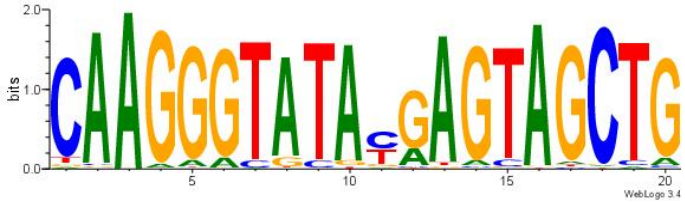

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

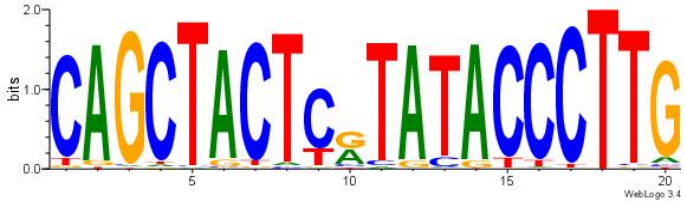

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.14312

Alignment:

```
ACACATCACAAAGCAGTTTC
ATGTAACCAAAYACCACCTG
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

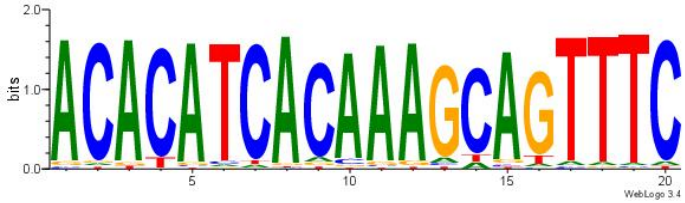

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

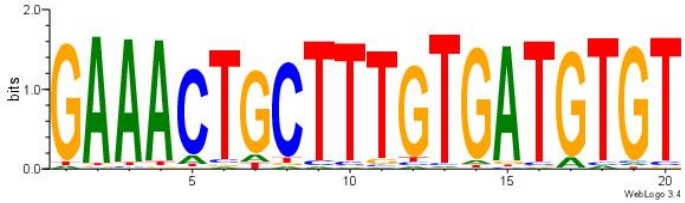

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.145456

Alignment:
ATGTGGAGGTGGAAGACAGT
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

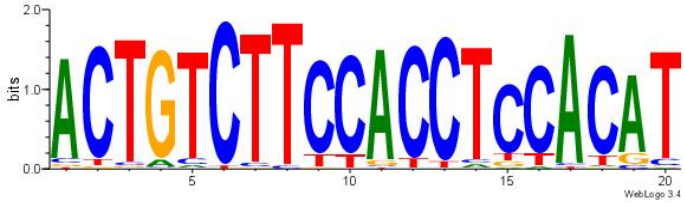

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

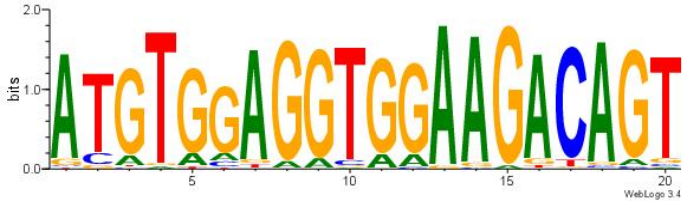

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.146031

Alignment:
MTCCTCCAGACCCCAGAATG
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

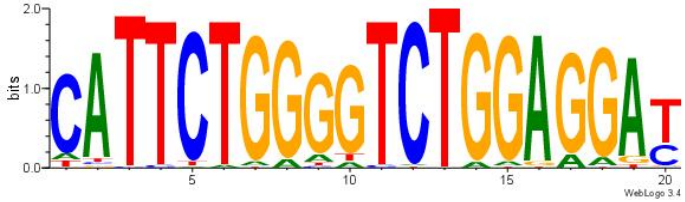

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

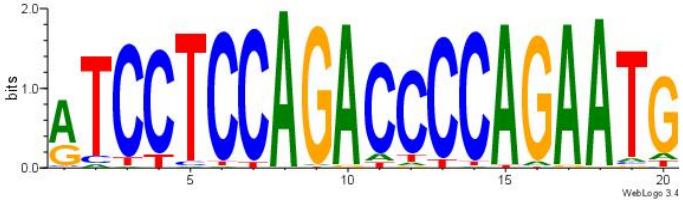

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.146567

Alignment:
ATTGGTGTATTTACAATCCC
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

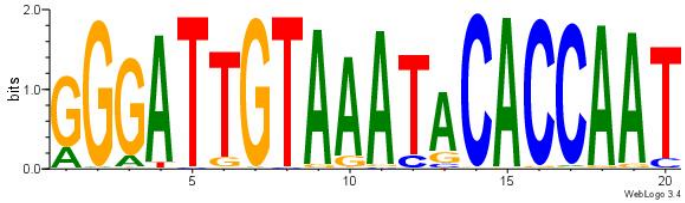

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147784

Alignment:

```
GAAAGGGAACTCCCTGACCC
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

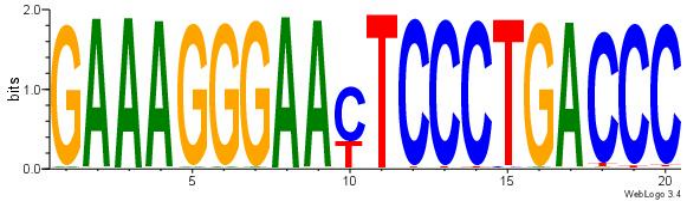

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

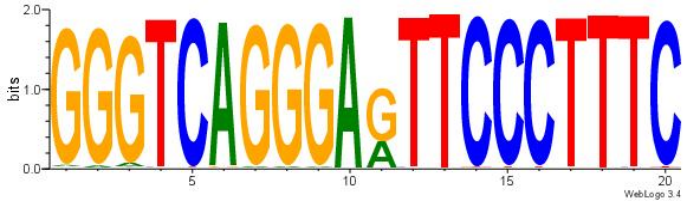

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.148179

Alignment:
TMGGGAGGCTGAGGCAGGAG
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

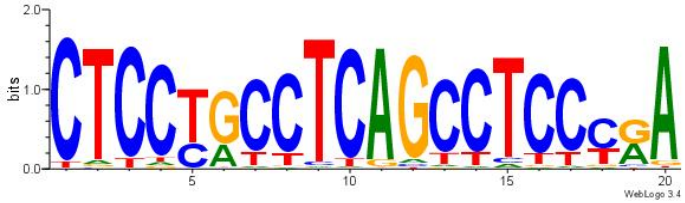

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

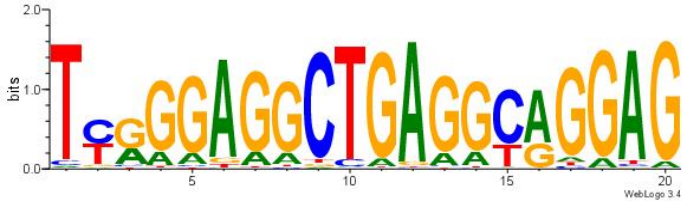

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.148363

Alignment:
AAGACCTTCCAGTGGGACAA
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

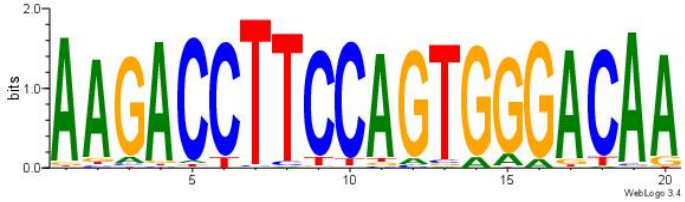

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

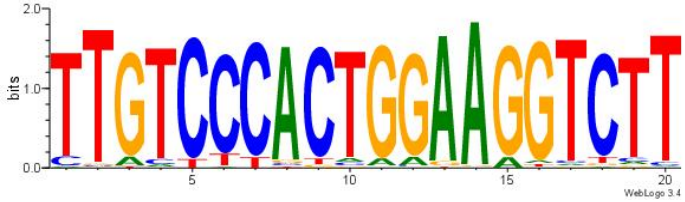

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148707

Alignment:
AGCTGTGAGAAGAGGGCCAC
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

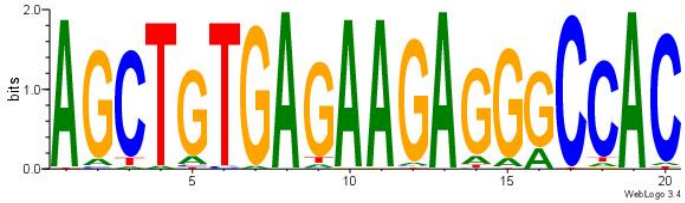

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

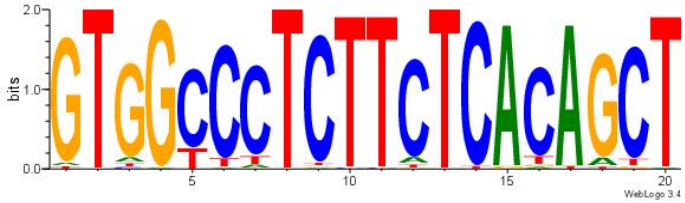

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.149216

Alignment:

```
CAACATGGATGRARCTGGAG
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

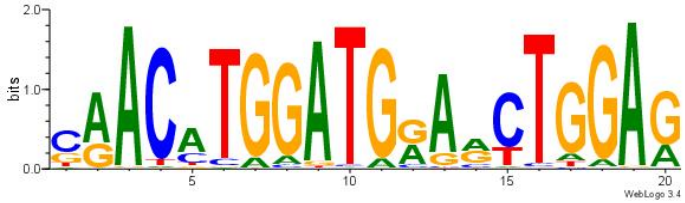

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

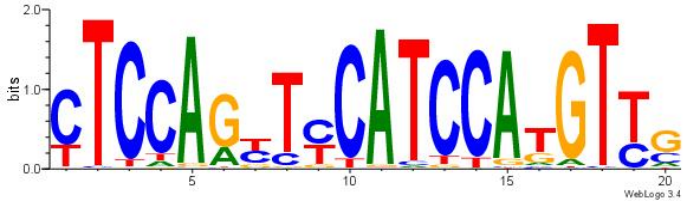

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149887

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

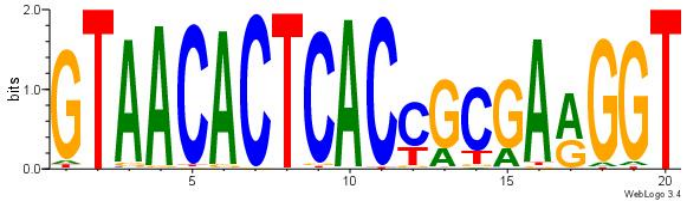

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

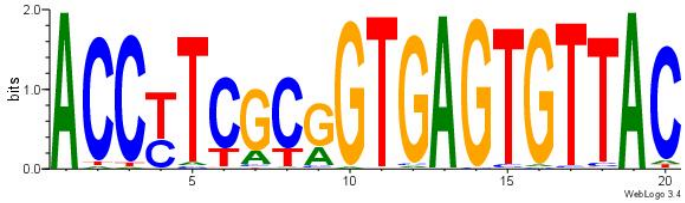

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.151923

Alignment:
ATCTGACAGGAGGYRGAGCT
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

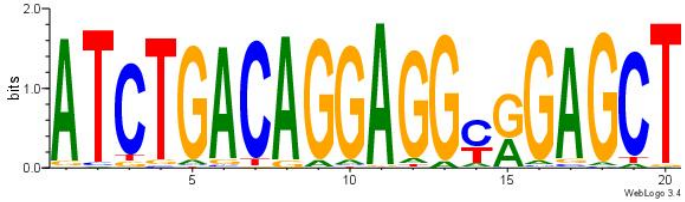

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

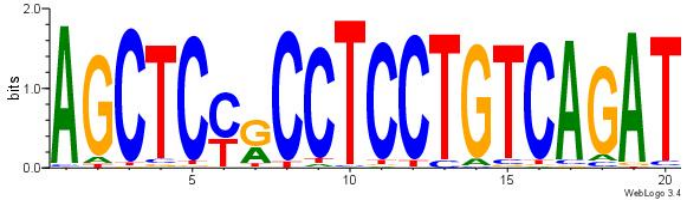

Dataset #: 1
Motif ID: 170
Motif name: Motif 170
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152938

Alignment:
ATTGATMKCCAGGGTTGATT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

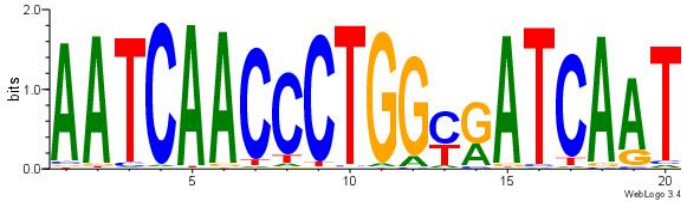

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

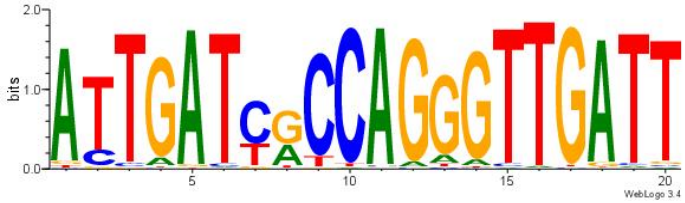

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153505

Alignment:

```
AATGAKATCATGTCYTTTGC
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

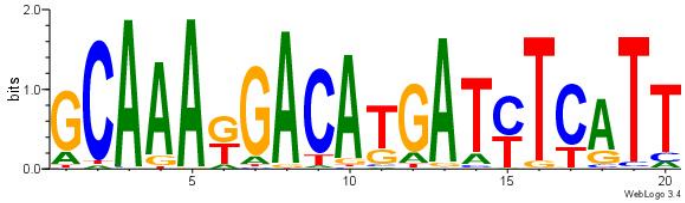

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

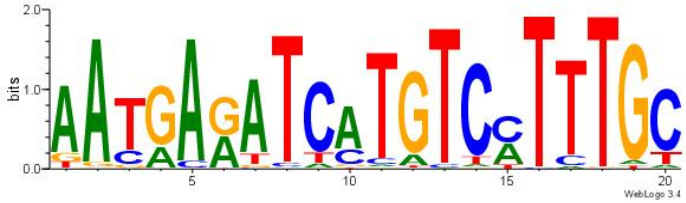

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153804

Alignment:
CTAGACATAAAGGTTCTCCA
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

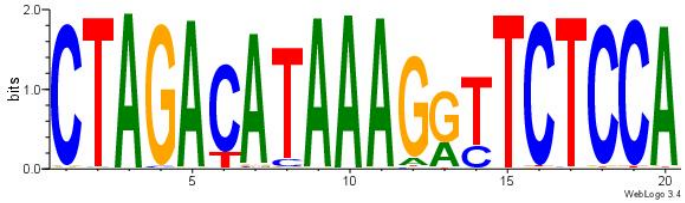

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

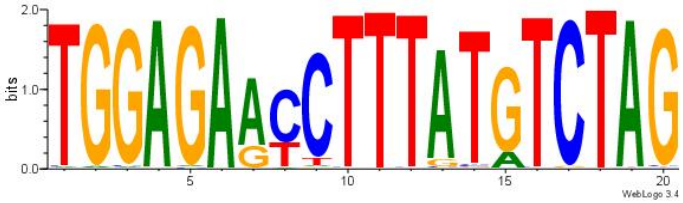

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.154008

Alignment:
MGTCTMKCTCTGTKGCCCAG
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

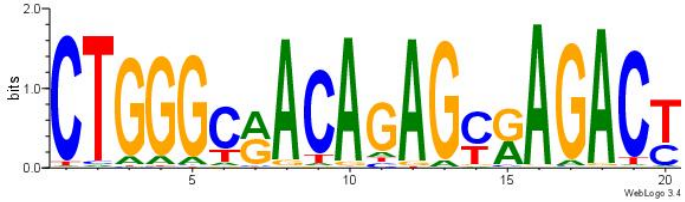

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

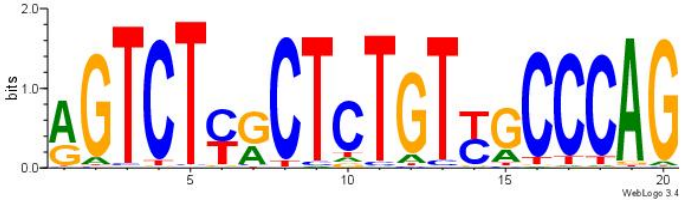

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.154156

Alignment:
TAGATAATAGCTCCAGCTTT
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

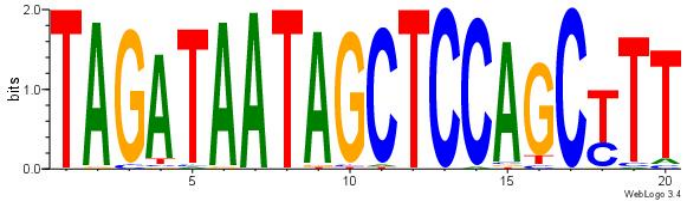

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

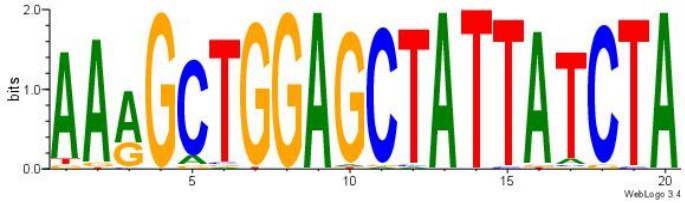

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154352

Alignment:

```
AGTGAGAACATRYRRTRTTT
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

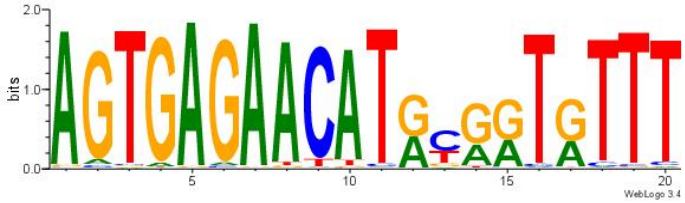

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

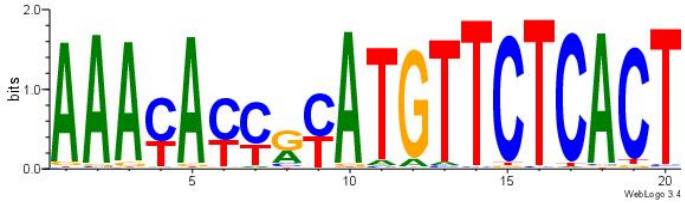

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.154361

Alignment:
GCCKGGMKCMGTGGCTCAKG
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

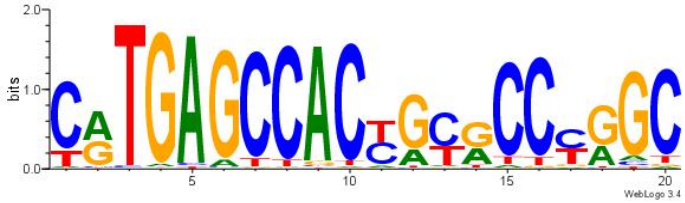

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

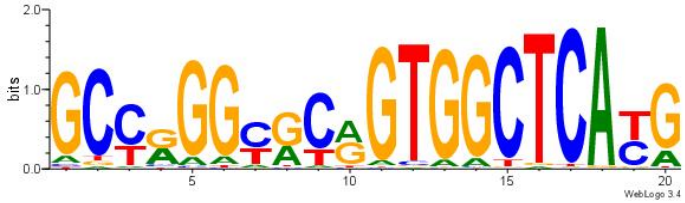

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.154378

Alignment:
GCTGTGTGACCTTGGGCAAG
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

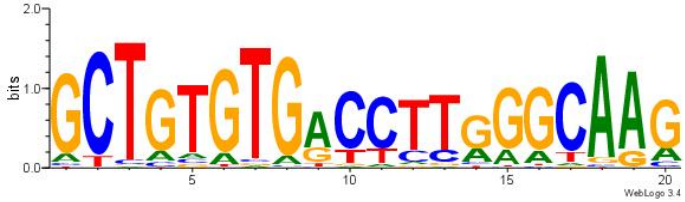

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

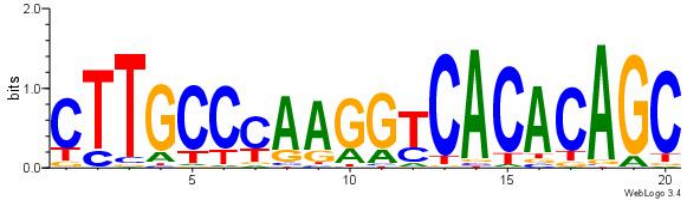

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155135

Alignment:
ATGGACAYTTRGGTTGHTTC
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

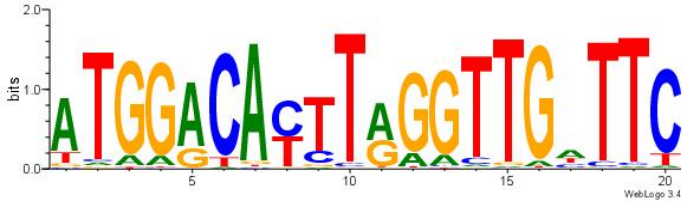

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

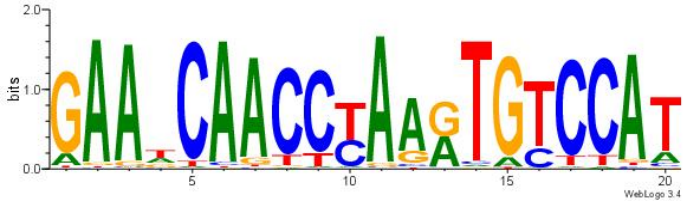

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155164

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

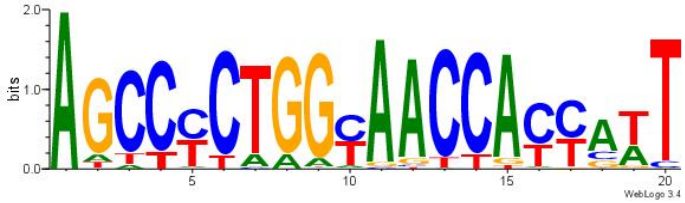

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

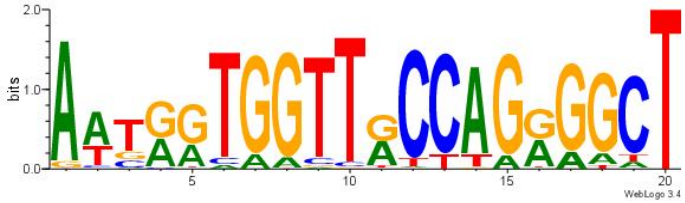

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155685

Alignment:
CCCGAAGCTGCRYRCTCGGT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

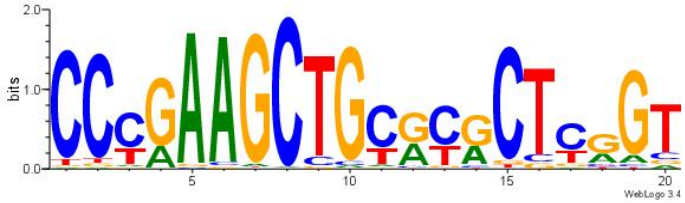

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

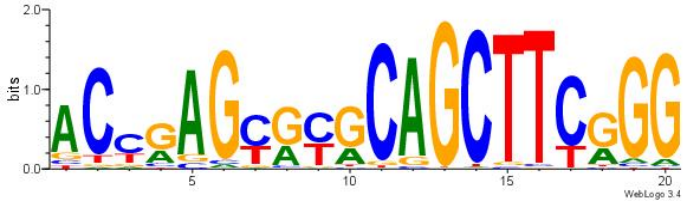

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.155785

Alignment:
AAGTTCTKGGKTACATGTGC
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

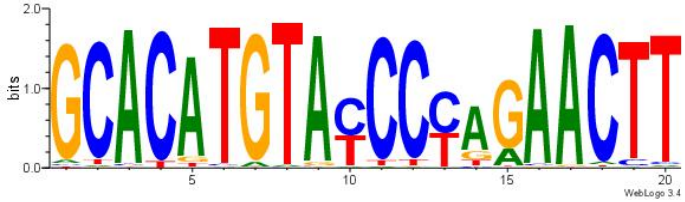

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

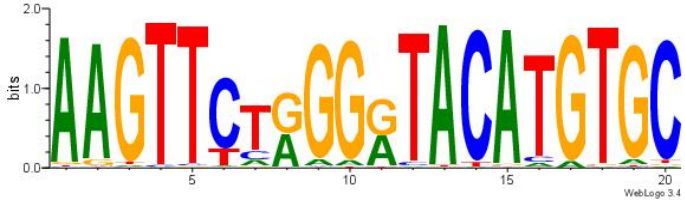

Dataset #: 1
Motif ID: 357
Motif name: Motif 357
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.156611

Alignment:
TAATTTTATGTGTCAACTTG
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

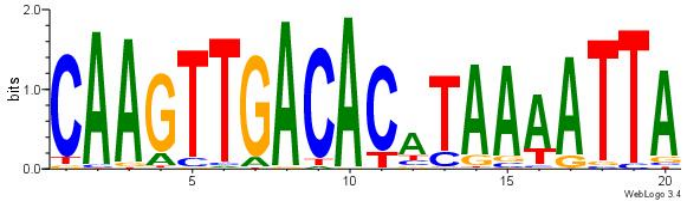

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

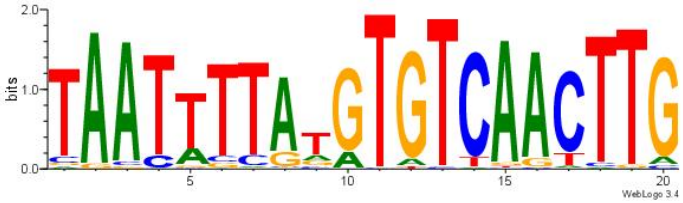

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.156832

Alignment:

```
AAGTCCAAGATCAAGGTGYY
ATGTAACCAAAYACCACCTG
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

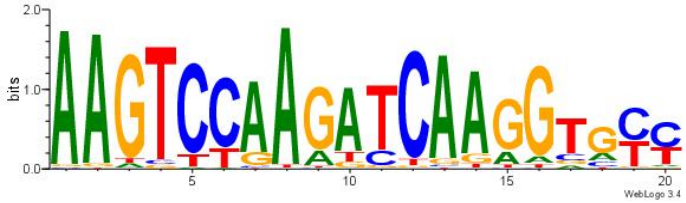

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

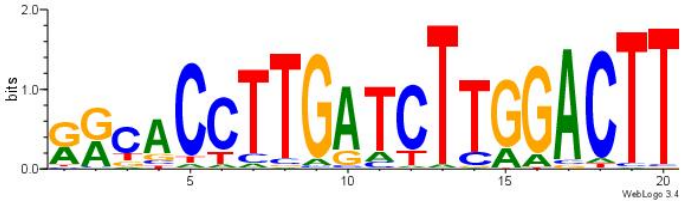

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.157012

Alignment:
GCCTCTCCCTCCACACCTCC
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

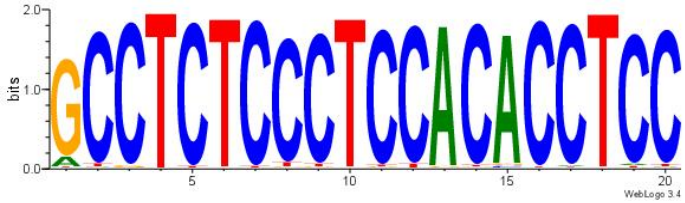

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

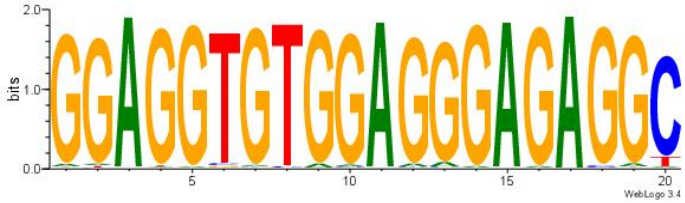

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 20
Similarity score: 0.157457

Alignment:
GGCATCACGGATCCTACCAA
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

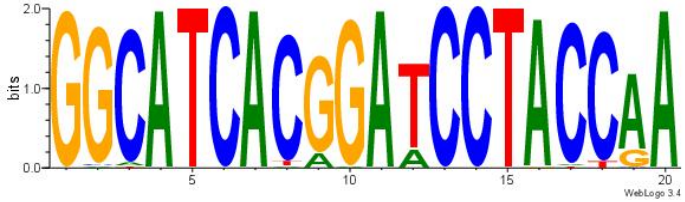

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

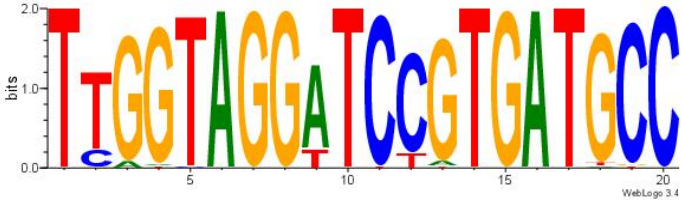

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.158095

Alignment:
CMTAGYACAGTGCCTGGCAC
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

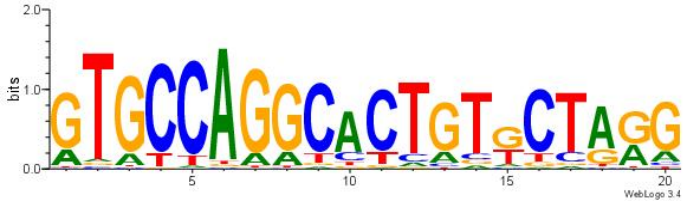

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

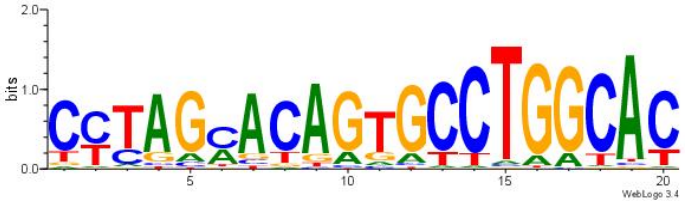

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158922

Alignment:

```
TYTGTCMTTTTGTGACTGGC
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

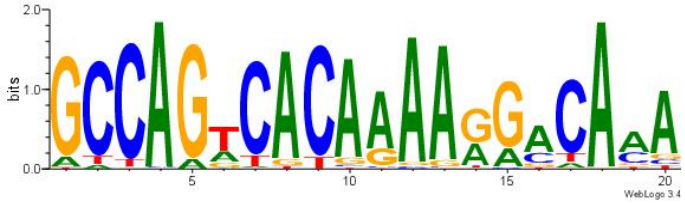

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

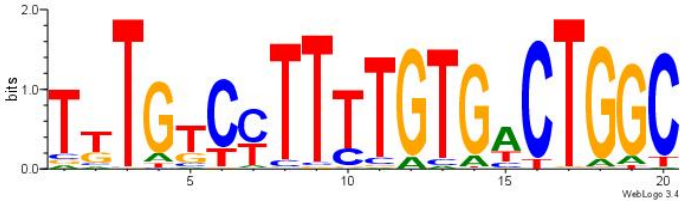

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159347

Alignment:
GAATACCTCCTGAAGGACCT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

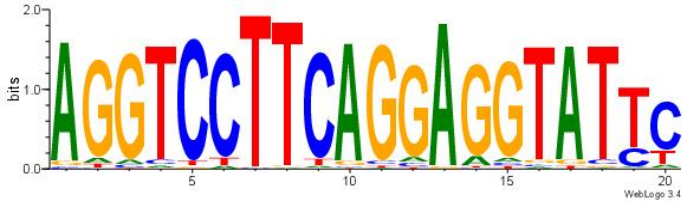

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

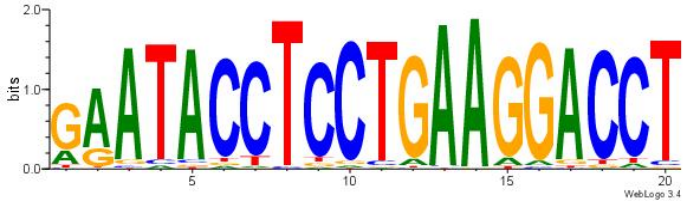

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.159845

Alignment:
TCKMGCCACTGCACTCCAGC
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

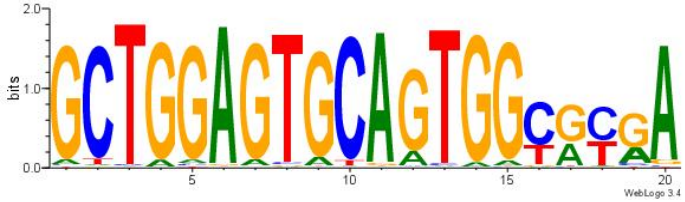

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

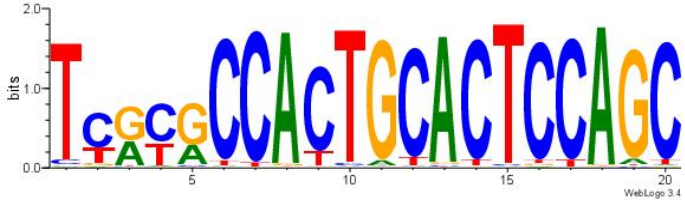

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160373

Alignment:
AGGCCCCAGTGTSTGTTGTT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

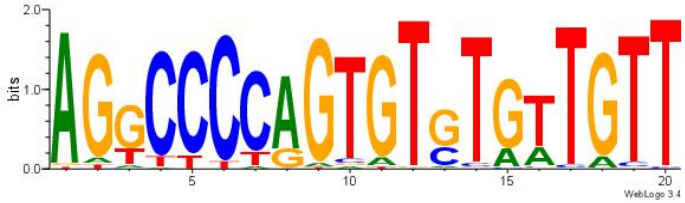

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

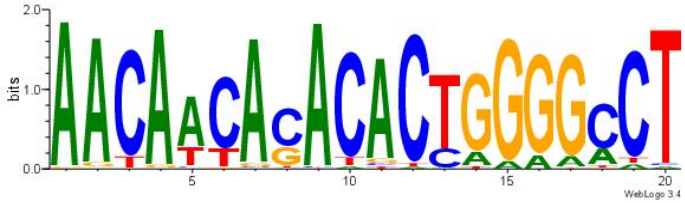

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16047

Alignment:

```
ATAGGAATGCTTGTGATTTT
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

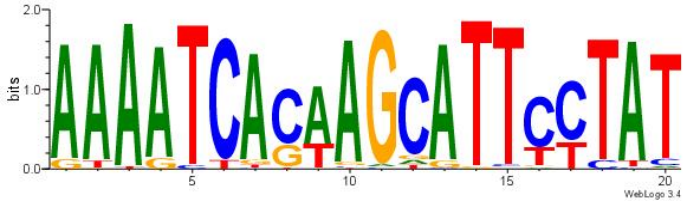

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

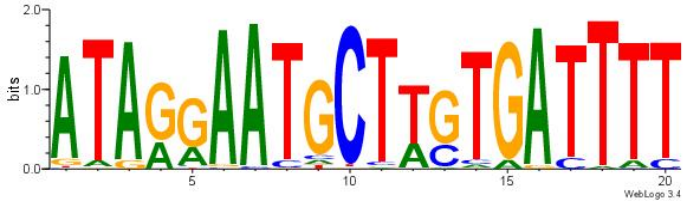

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.16055

Alignment:
CACCAGACTCAGGAGCCCAG
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

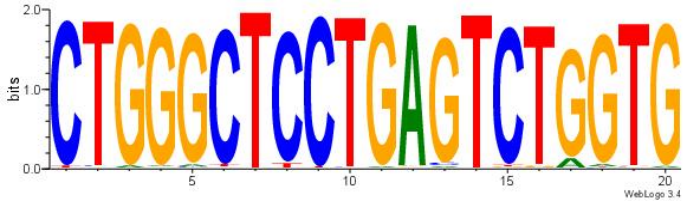

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

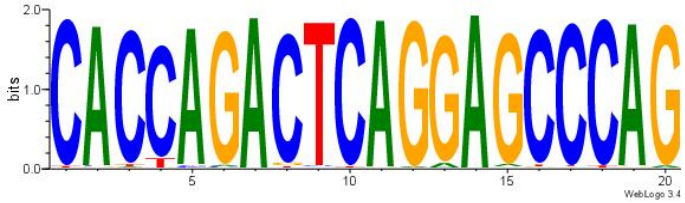

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 20
Similarity score: 0.161512

Alignment:
AGTGACCCGATTTTCCAGGT
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

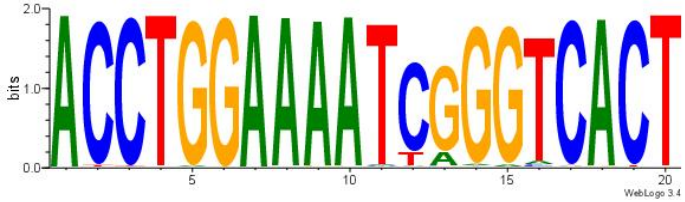

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

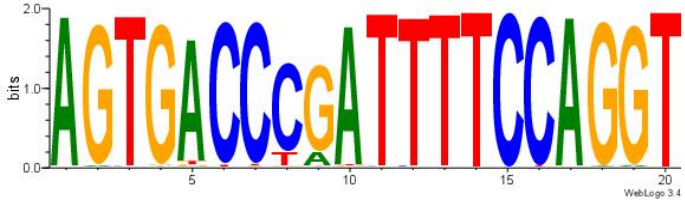

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.162666

Alignment:
GTTATTAATTGGCCTAATTT
CAGGTGGTKTTTGGTTACAT

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

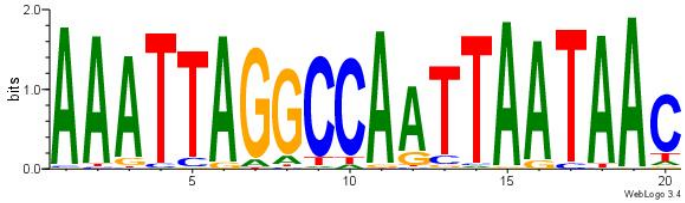

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.162932

Alignment:

```
AAGCAGGGCGAGGCATTGCC
CAGGTGGTKTTTGGTTACAT
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

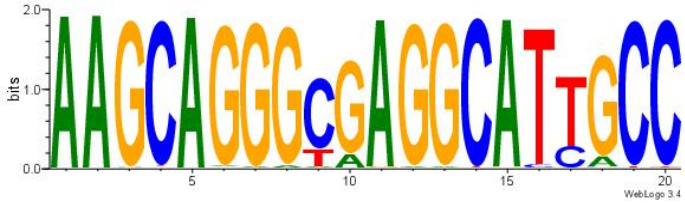

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

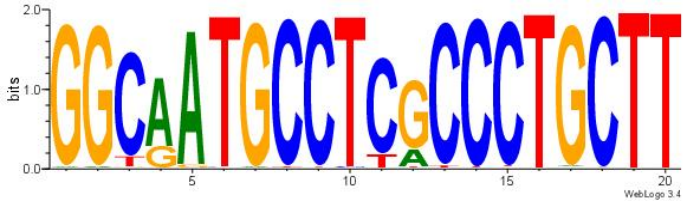

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163241

Alignment:

GGATTTMKGACTTGCATGGG
ATGTAACCAAAYACCACCTG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

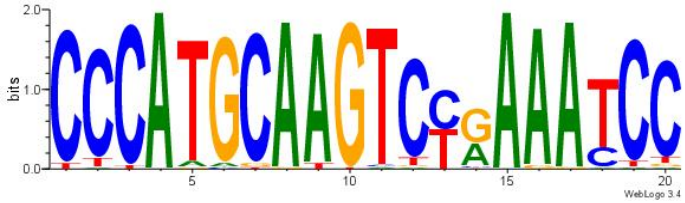

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

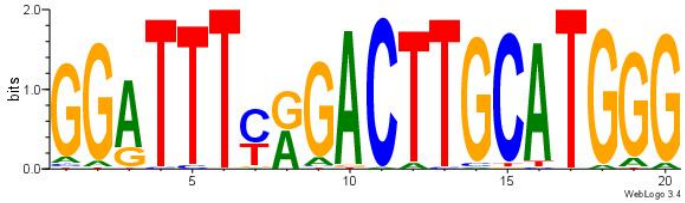

Dataset #: 1 Motif ID: 337 Motif name: Motif 337

Original motif Consensus sequence: AAACTAGAAA

Reverse complement motif Consensus sequence: TTTCTAGTTT

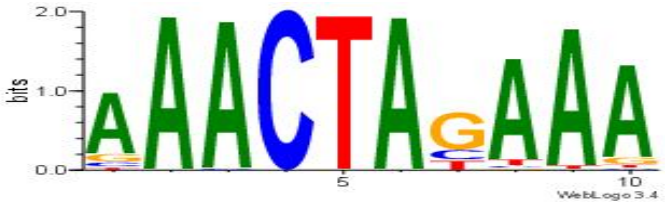

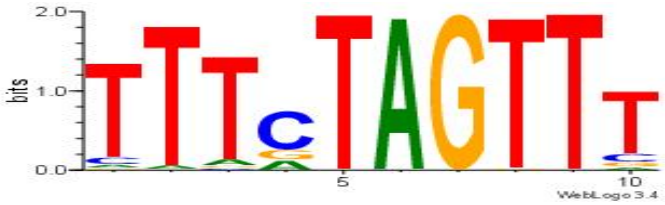

Best Matches for Motif ID 337 (Highest to Lowest)

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0563059

Alignment:

```
TAAAAGACTACAWATTGGGT
----AAACTAGAAA------
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

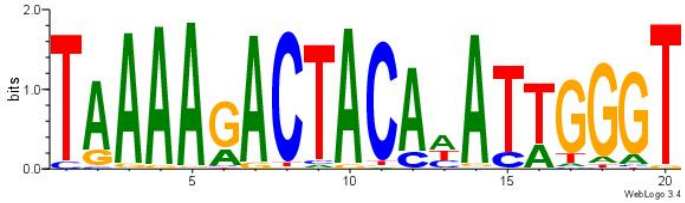

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

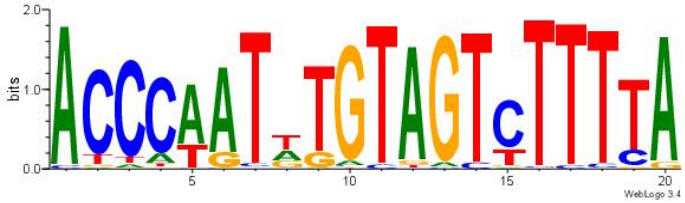

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0573722

Alignment:

```
ATAAAAACTTGCTGGTTTT
--------TTTCTAGTTT-
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

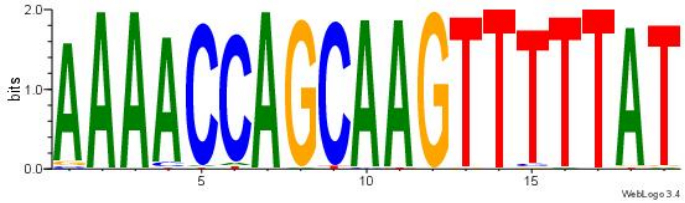

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

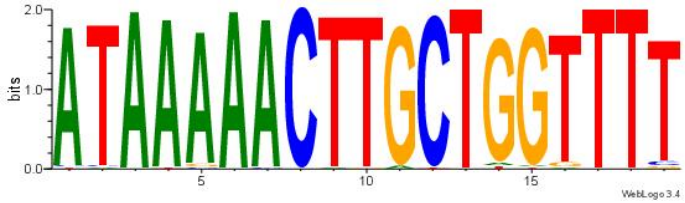

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 10
Similarity score: 0.0579018

Alignment:
TTTYTWTTTTTTYTWGAGAC
TTTCTAGTTT----------

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

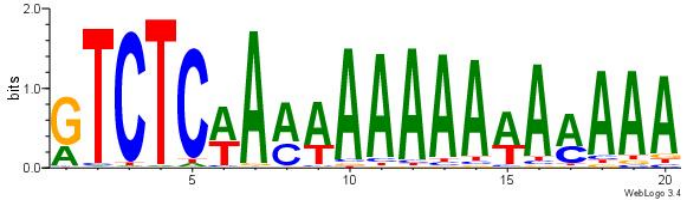

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

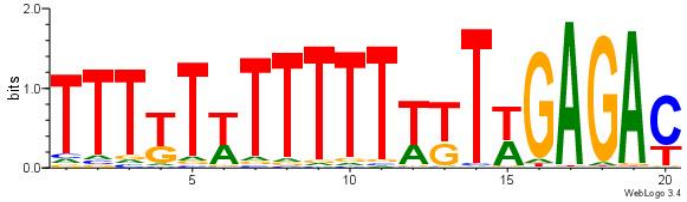

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.0651653

Alignment:
GTTAACTGTAAAACAGCCT
--AAACTAGAAA-------

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

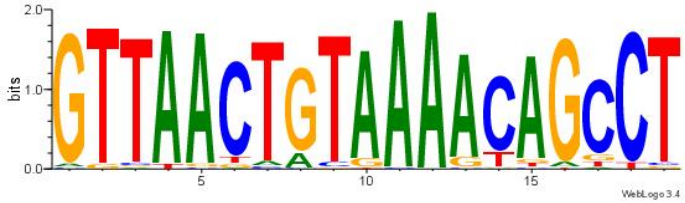

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

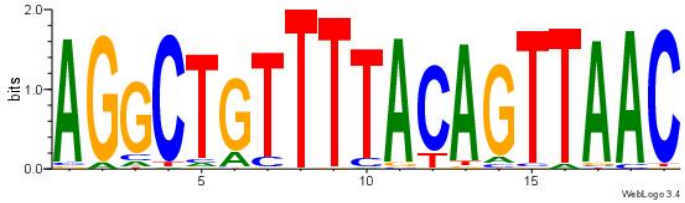

Dataset #:	1
Motif ID:	73
Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0679233

Alignment:

```
CAAACTGCAAG
-AAACTAGAAA
```

Original motif Consensus sequence: CAAACTGCAAG

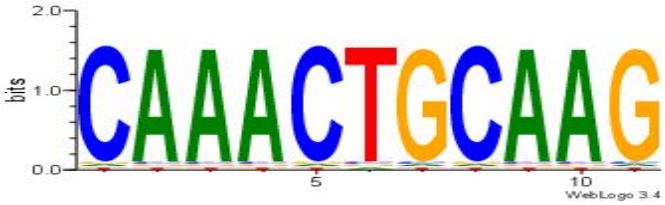

Reverse complement motif Consensus sequence: CTTGCAGTTTG

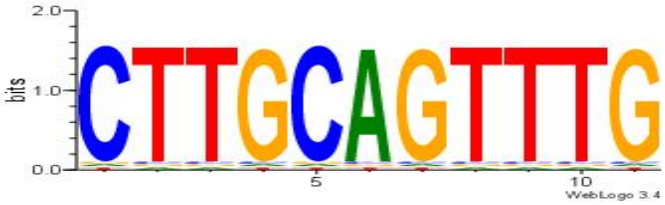

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.068088

Alignment:

```
CCCAAATCCTATAAAA
-----AAACTAGAAA-
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

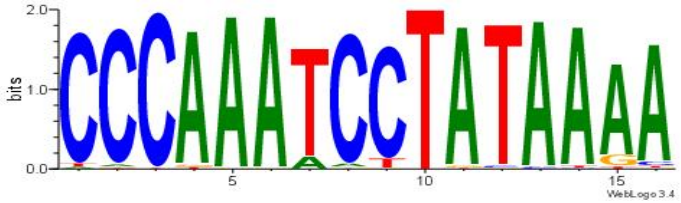

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

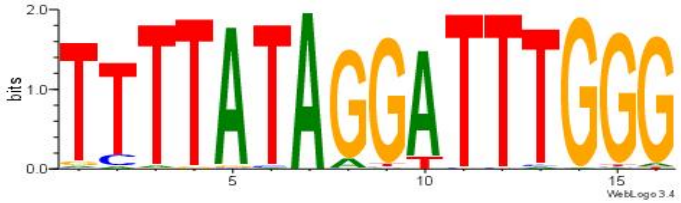

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6

Number of overlap: 10
Similarity score: 0.0725744

Alignment:
TTYTTGTTGTTGTTGTT
--TTTCTAGTTT-----

Original motif Consensus sequence: AACAACAACAACAAMAA

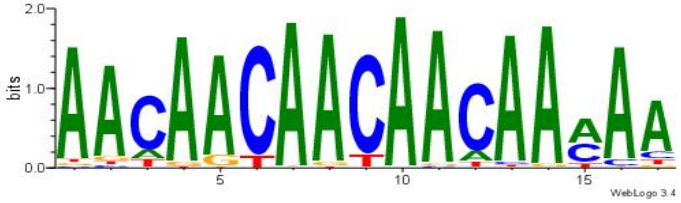

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

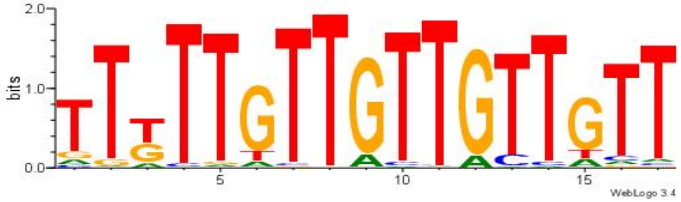

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 11
Number of overlap: 10
Similarity score: 0.0731307

Alignment:
GCTCCACCCAGTTCGAGCTT
----------TTTCTAGTTT

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

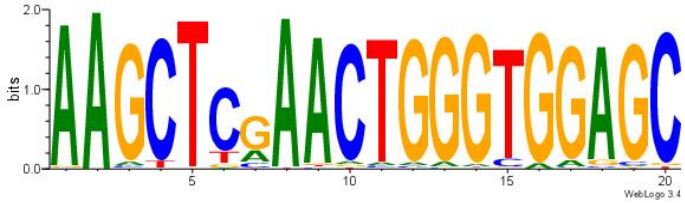

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

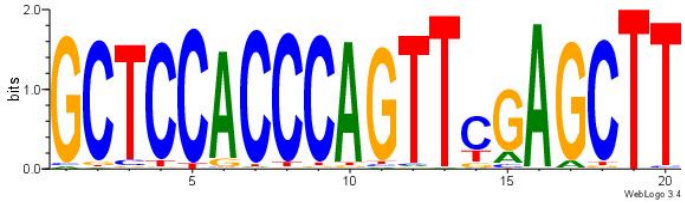

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0783232

Alignment:

```
AAGGAACAAACTCCRGACAC
-------AAACTAGAAA---
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

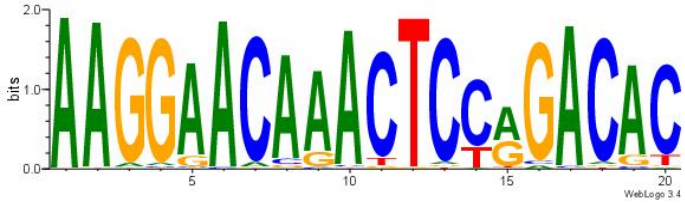

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

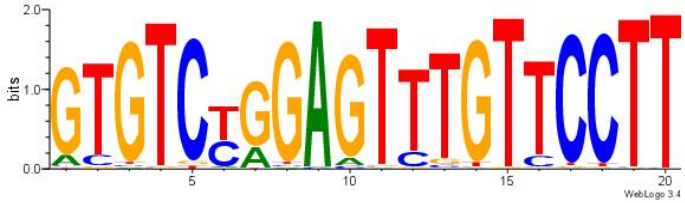

Dataset #:	1
Motif ID:	41
Motif name:	Motif 41
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0789625

Alignment:

```
AAAYAAAAAAA
AAACTAGAAA-
```

Original motif Consensus sequence: AAAYAAAAAAA

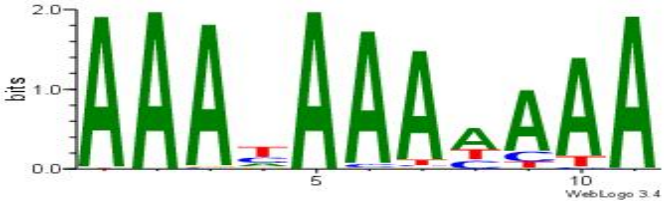

Reverse complement motif Consensus sequence: TTTTTTTMTTT

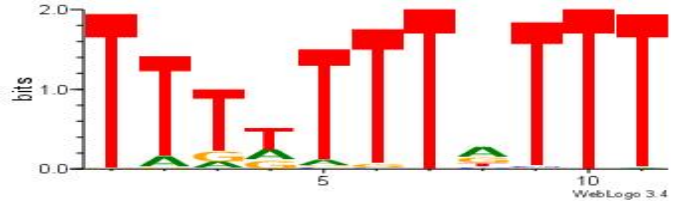

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10

Similarity score: 0.0809868

Alignment:
CAGGTGGTKTTTGGTTACAT
-------TTTCTAGTTT---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

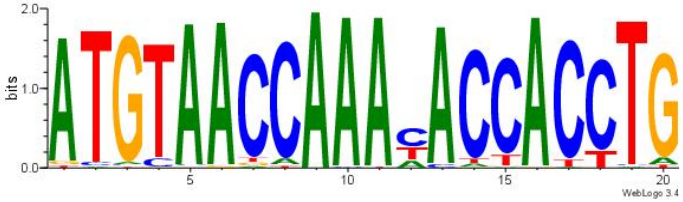

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

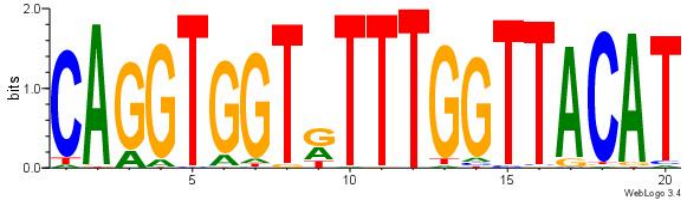

Dataset #: 1
Motif ID: 145
Motif name: Motif 145
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.081885

Alignment:
TYTGTCMTTTTGTGACTGGC
TTTCTAGTTT----------

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

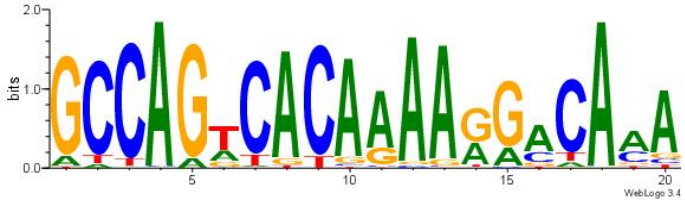

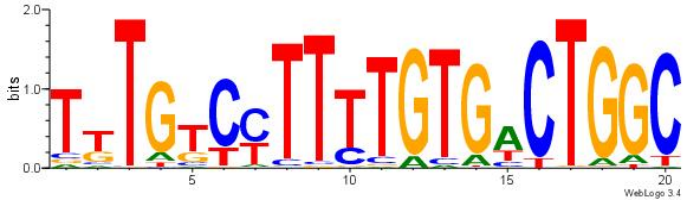

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0839311

Alignment:

```
ATGTTGTAGCATGT
--TTTCTAGTTT--
```

Original motif Consensus sequence: ACATGCTACAACAT

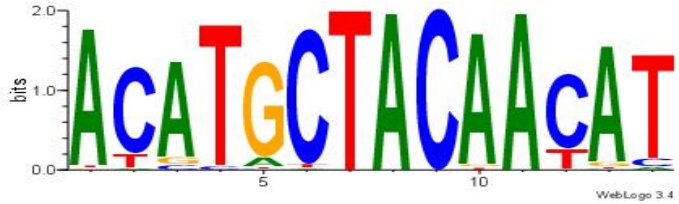

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

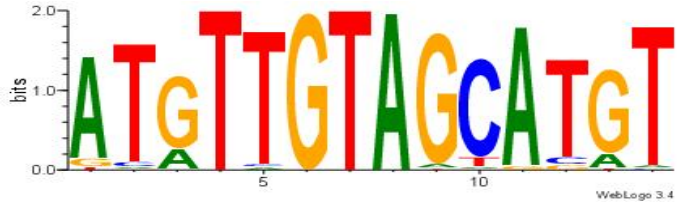

Dataset #:	1
Motif ID:	81

Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.084012

Alignment:

```
CATCTGTAAAAT
AAACTAGAAA--
```

Original motif Consensus sequence: CATCTGTAAAAT

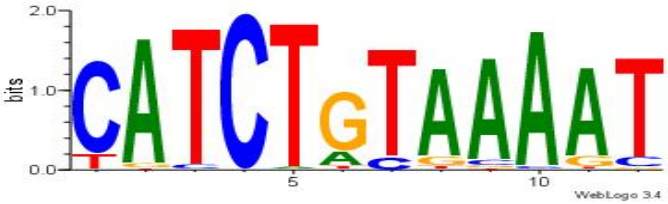

Reverse complement motif Consensus sequence: ATTTTACAGATG

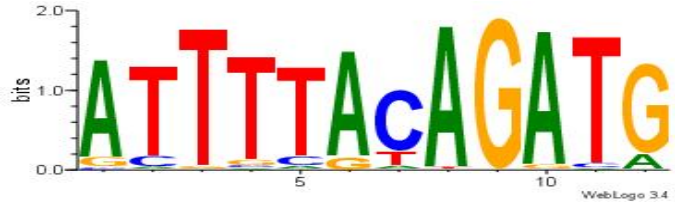

Dataset #:	1
Motif ID:	74
Motif name:	Motif 74
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.084252

Alignment:
CACTTCCTAGATGG
-TTTCTAGTTT---

Original motif Consensus sequence: CACTTCCTAGATGG

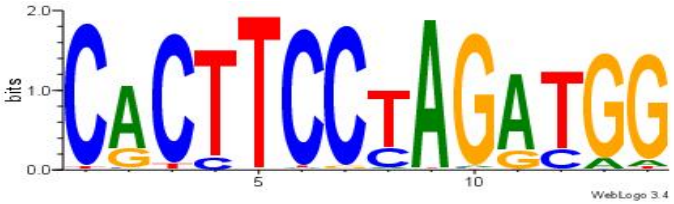

Reverse complement motif Consensus sequence: CCATCTAGGAAGT

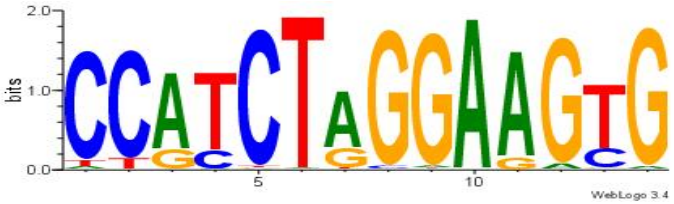

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0844303

Alignment:
CACTTTCCAGACTGGGCA
---TTTCTAGTTT-----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

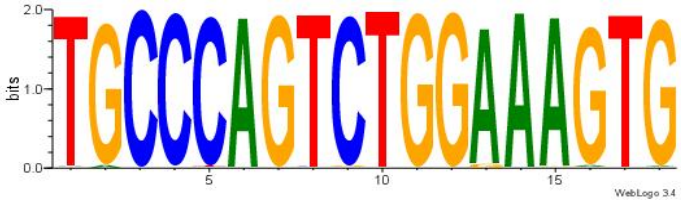

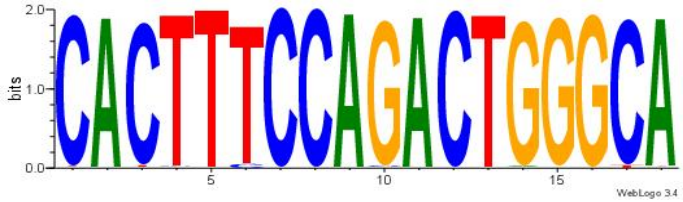

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.0855729

Alignment:

```
AAGTCTCCCAATTACAACT
-AAACTAGAAA--------
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

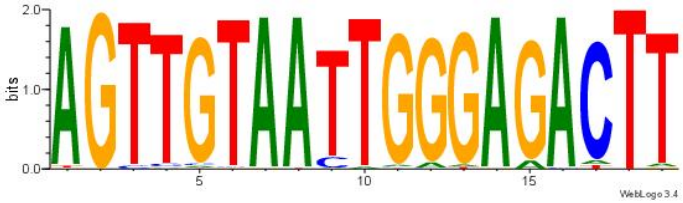

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

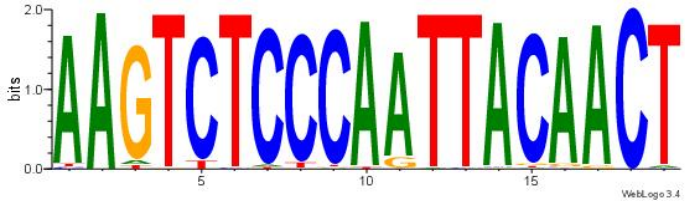

Dataset #: 1

Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0859371

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-TTTCTAGTTT---------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

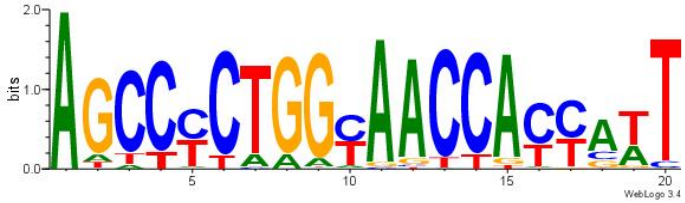

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

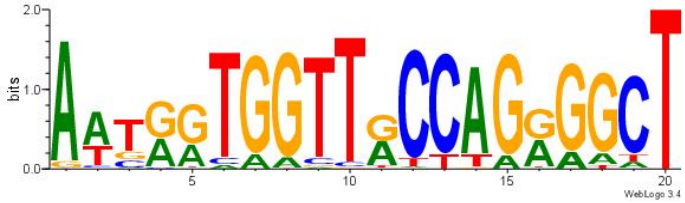

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0867916

Alignment:
GTTATTAATTGGCCTAATTT
-TTTCTAGTTT---------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

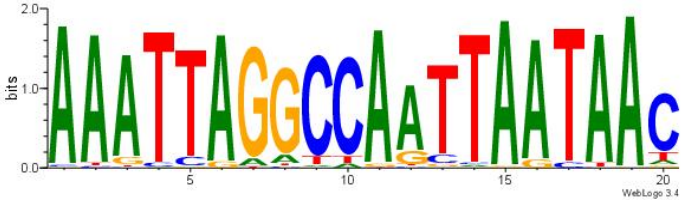

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 10
Similarity score: 0.0867919

Alignment:
AGGGATCTAGGTTGCR
---TTTCTAGTTT---

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

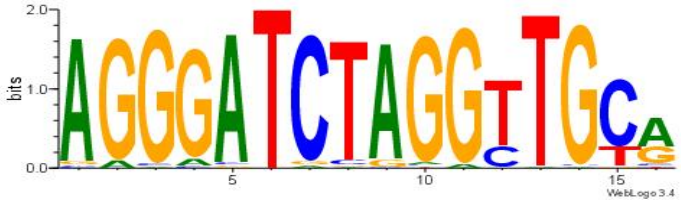

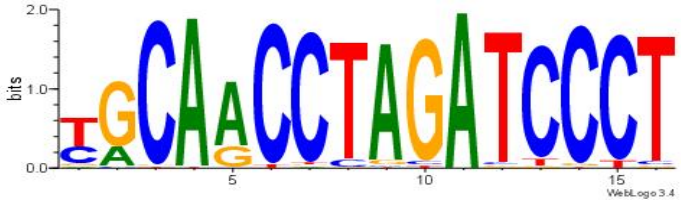

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 9
Number of overlap: 10
Similarity score: 0.0869775

Alignment:
CCTTGGCCAGCCCAGAAAG
--------AAACTAGAAA-

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

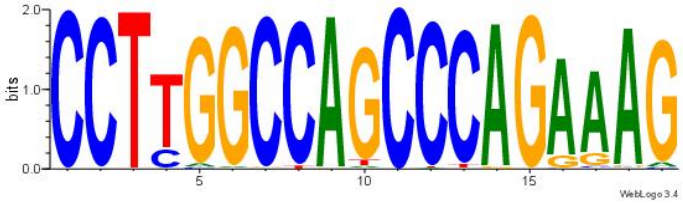

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

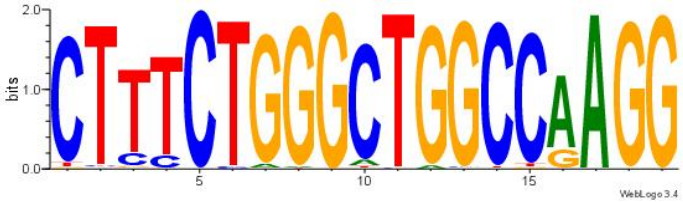

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0890002

Alignment:

```
AAAATCACAAGCATTCCTAT
-AAACTAGAAA---------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

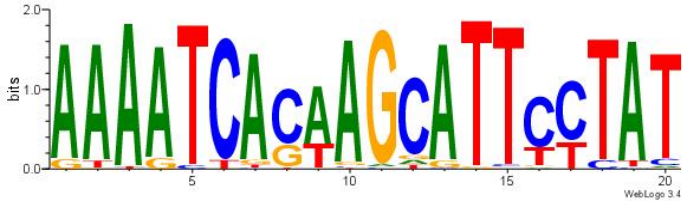

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

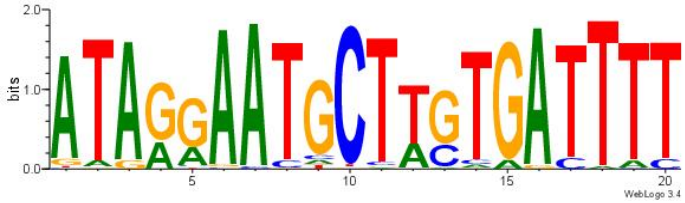

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.0900128

Alignment:
ACTTTGGACTGTGGACTTTT
---------TTTCTAGTTT-

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

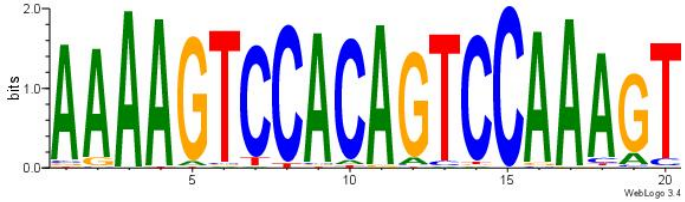

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

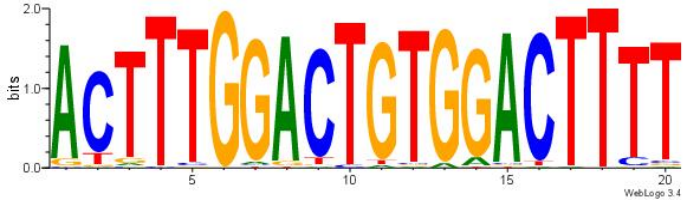

Dataset #: 1
Motif ID: 325
Motif name: Motif 325
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.090368

Alignment:
AGCAGCTGTAAATA
--AAACTAGAAA--

Original motif Consensus sequence: AGCAGCTGTAAATA

Reverse complement motif Consensus sequence: TATTTACAGCTGC

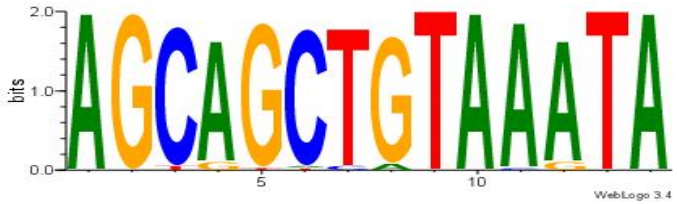

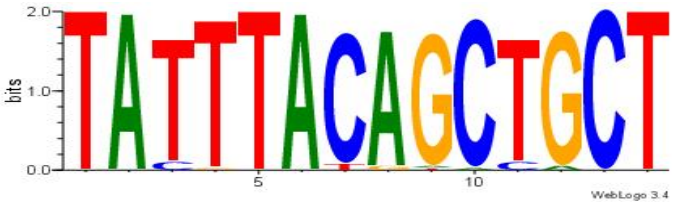

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.090402

Alignment:

```
GAAACTGCTTTGTGATGTGT
--------TTTCTAGTTT--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

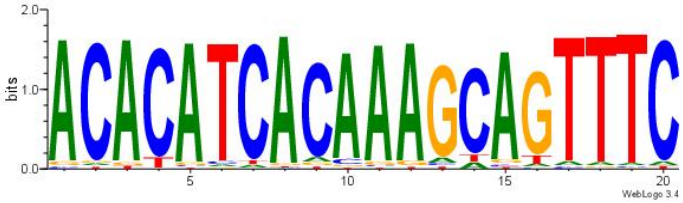

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

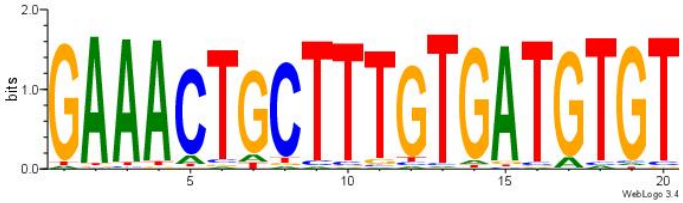

Dataset #: 1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0910849

Alignment:

```
AAATTACCCAGTCTCAGGTA
AAACTAGAAA----------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

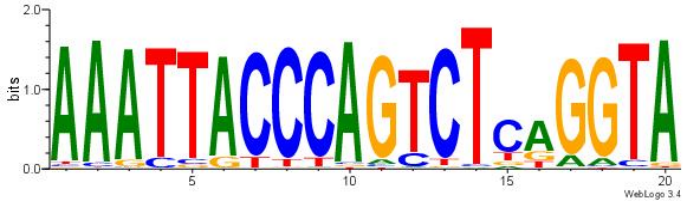

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

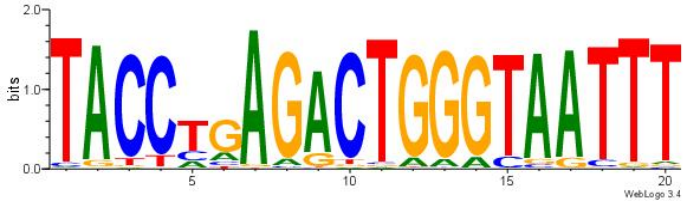

Dataset #:	1
Motif ID:	54
Motif name:	Motif 54
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10

Similarity score: 0.0917974

Alignment:
AAGGAAAAGAAA
--AAACTAGAAA

Original motif Consensus sequence: AAGGAAAAGAAA

Reverse complement motif Consensus sequence: TTTCTTTTCCTT

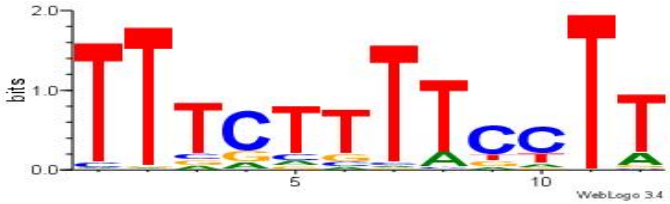

Dataset #: 1
Motif ID: 249
Motif name: Motif 249
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 10
Similarity score: 0.0924689

Alignment:
TTGGTGGTCTCTTCACA
TTTCTAGTTT-------

Original motif Consensus sequence: TGTGAAGAGACCACCAA

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

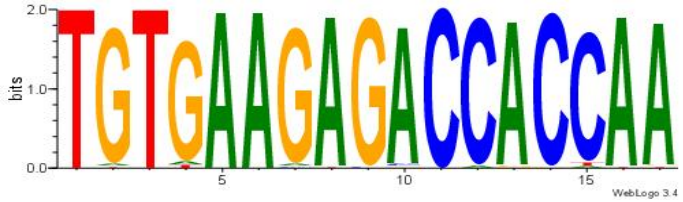

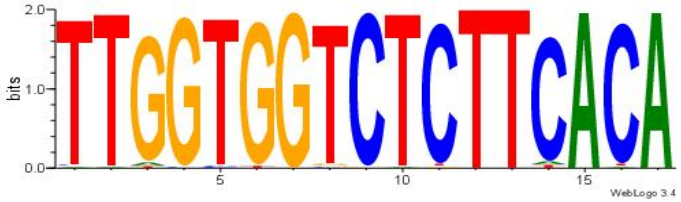

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0925256

Alignment:

```
GGCATCACGGATCCTACCAA
----------AAACTAGAAA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

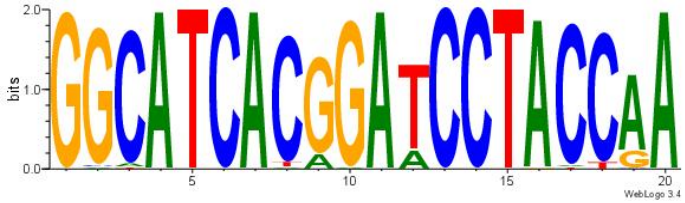

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

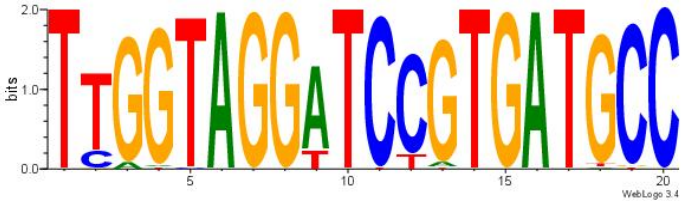

Dataset #:	1

Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0926064

Alignment:

```
CCAAACCATATCA
--AAACTAGAAA-
```

Original motif Consensus sequence: CCAAACCATATCA

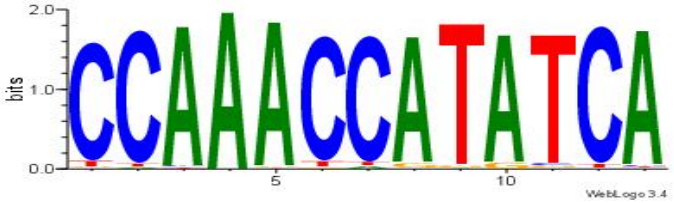

Reverse complement motif Consensus sequence: TGATATGGTTTGG

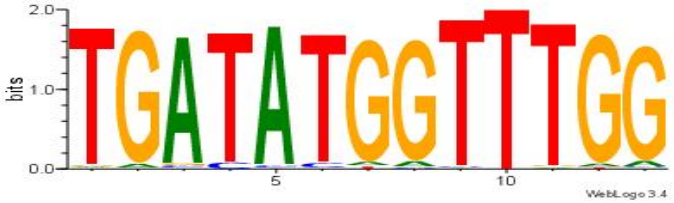

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0935033

Alignment:
AATGAGTTAAGACTTTG
-TTTCTAGTTT------

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence:
CAAAGTCTTAACTCATT

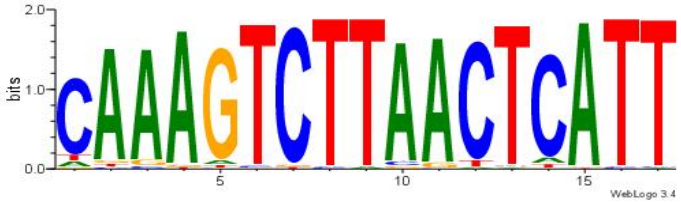

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.0942014

Alignment:
ATGGAATAYTATTCAGCCAT
-----AAACTAGAAA-----

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

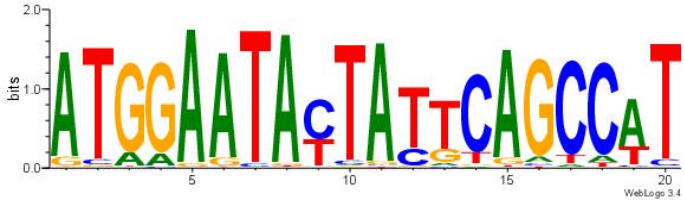

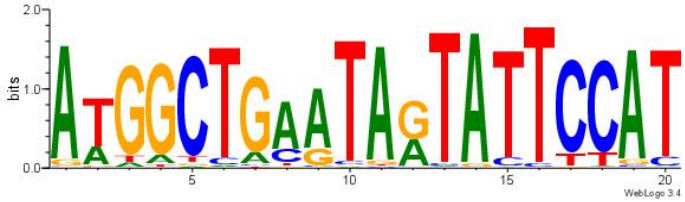

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0942849

Alignment:

```
AAATCTTAAAGCTC
AAACTAGAAA----
```

Original motif Consensus sequence: AAATCTTAAAGCTC

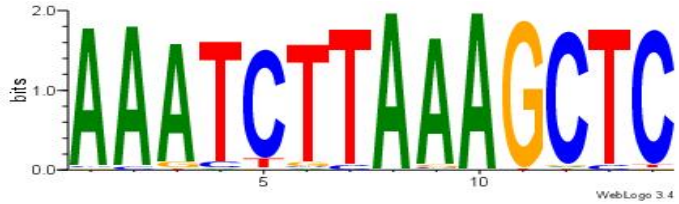

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

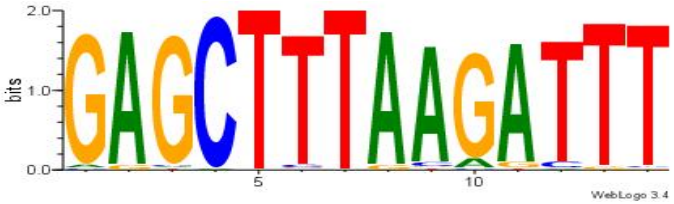

Dataset #:	1
Motif ID:	115

Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0943726

Alignment:

```
ATGATCCAGCAATYCCACTH
--AAACTAGAAA--------
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

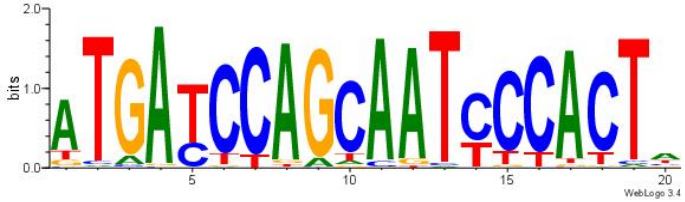

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

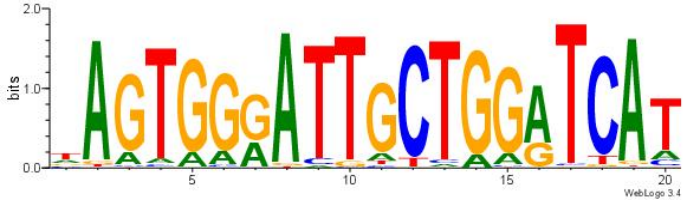

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.094781

Alignment:
AAGACCTTCCAGTGGGACAA
-----TTTCTAGTTT-----

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

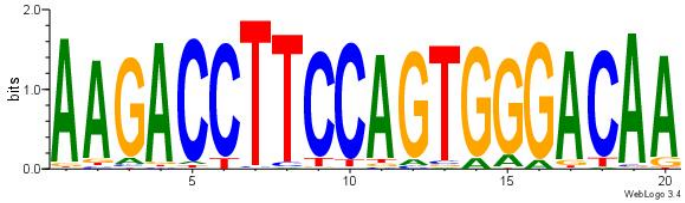

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

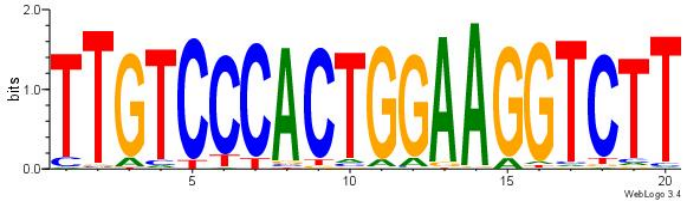

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0950001

Alignment:
CAGTCTGTGTCTTTTAATT
-----TTTCTAGTTT----

Original motif Consensus sequence: AATTAAAAGACACAGACTG

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

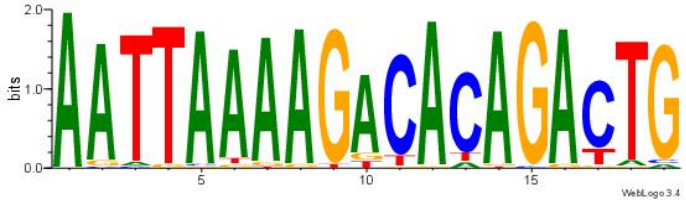

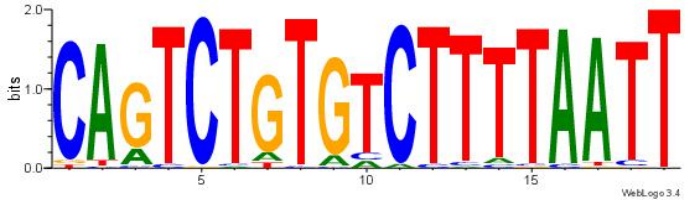

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0956746

Alignment:

```
TAATTTTATGTGTCAACTTG
---TTTCTAGTTT-------
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

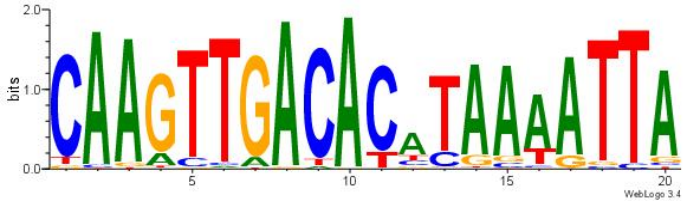

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

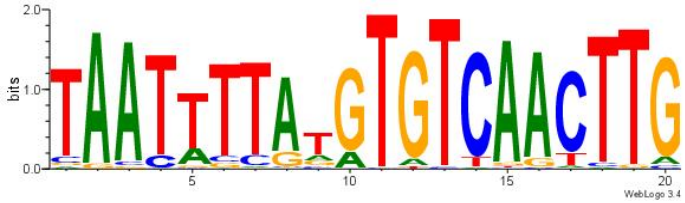

Dataset #:	1

Motif ID:	150
Motif name:	Motif 150
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0958839

Alignment:

```
ATTGCTAGCACA
-TTTCTAGTTT-
```

Original motif Consensus sequence: ATTGCTAGCACA

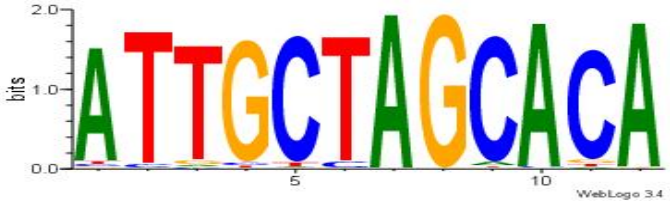

Reverse complement motif Consensus sequence: TGTGCTAGCAAT

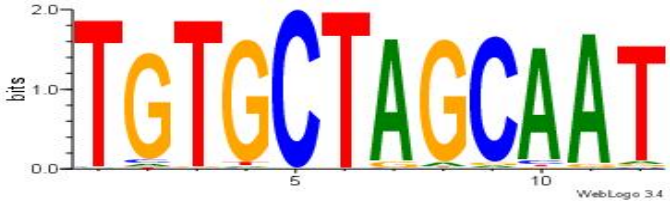

Dataset #:	1
Motif ID:	213
Motif name:	Motif 213
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0968466

Alignment:
AAYRGACTAATACA
---AAACTAGAAA-

Original motif Consensus sequence: AAYRGACTAATACA

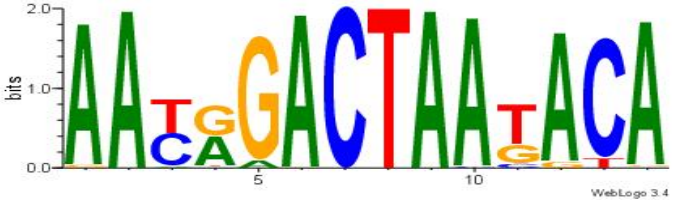

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

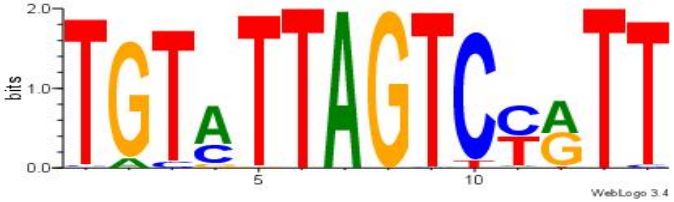

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0975446

Alignment:
GGATTTMKGACTTGCATGGG
---TTTCTAGTTT-------

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

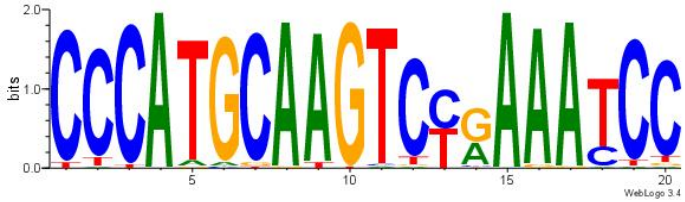

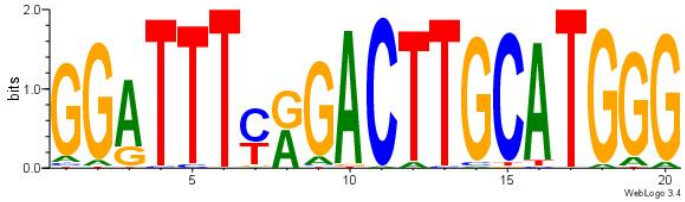

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0978507

Alignment:

```
CTCAGGAATGGAAAACC
----AAACTAGAAA---
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

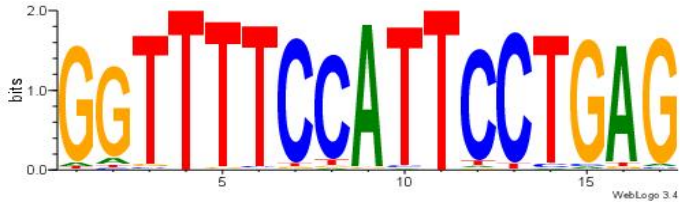

Dataset #: 1

Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0979133

Alignment:

```
AAGTTCTKGGKTACATGTGC
--TTTCTAGTTT--------
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

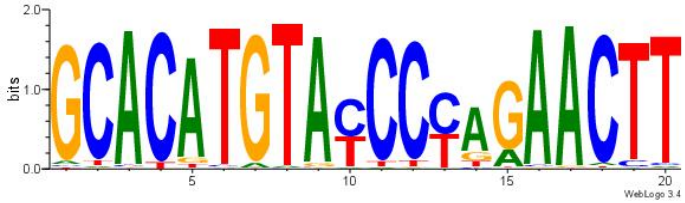

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

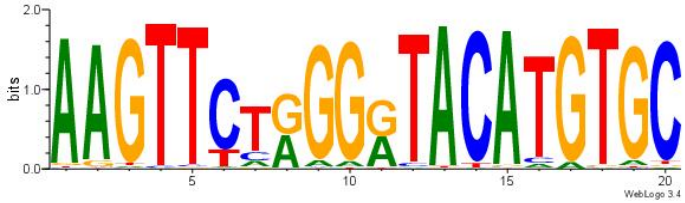

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10

Similarity score: 0.0986198

Alignment:
GCAWSTGCAAAGGCCCT
------AAACTAGAAA-

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

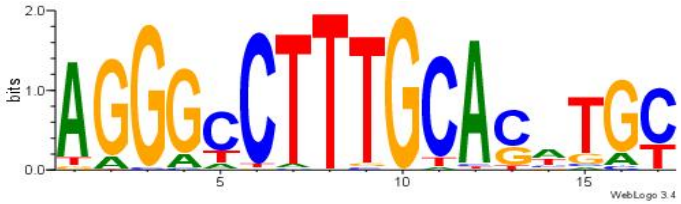

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

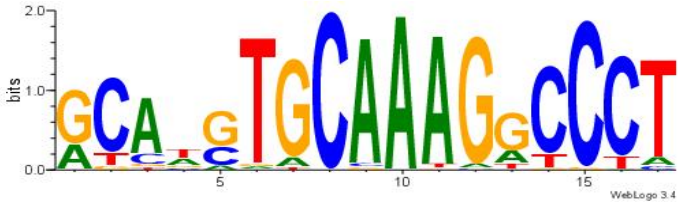

Dataset #:	1
Motif ID:	340
Motif name:	Motif 340
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0993161

Alignment:
GACCCAGAGAGC
AAACTAGAAA--

Original motif Consensus sequence: GACCCAGAGAGC

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

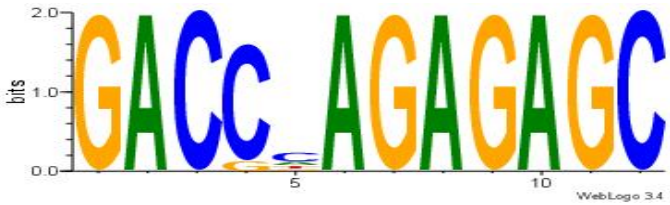

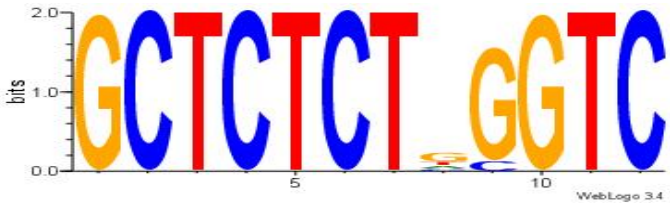

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0993671

Alignment:

```
ATTCAASATGAGATTTGGG
TTTCTAGTTT---------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

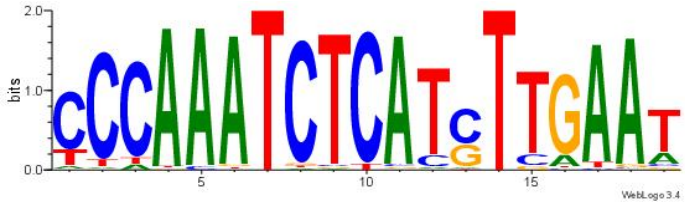

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

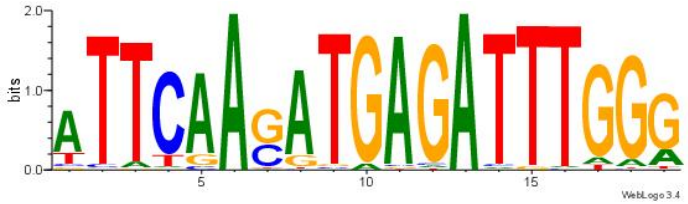

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.100477

Alignment:

```
GTACCTCAGWTGGAAATG
--AAACTAGAAA------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

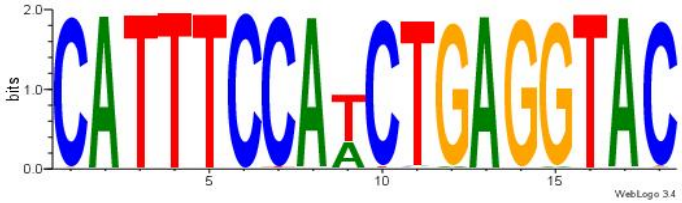

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

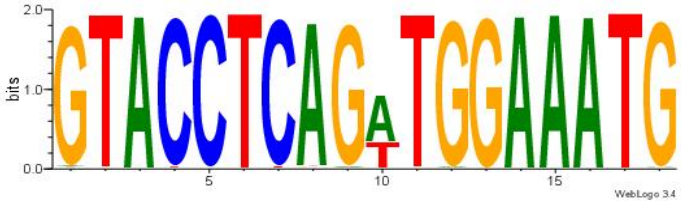

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10

Similarity score: 0.100657

Alignment:
CATTCTGGGGTCTGGAGGAY
---------TTTCTAGTTT-

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

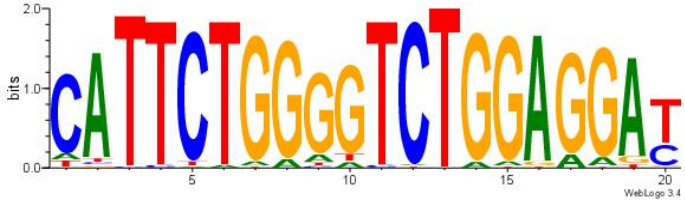

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

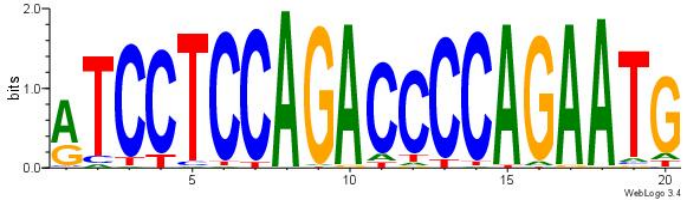

Dataset #: 1
Motif ID: 277
Motif name: Motif 277
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 10
Similarity score: 0.100936

Alignment:
GCCCTCACCAGAAGC
----AAACTAGAAA-

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

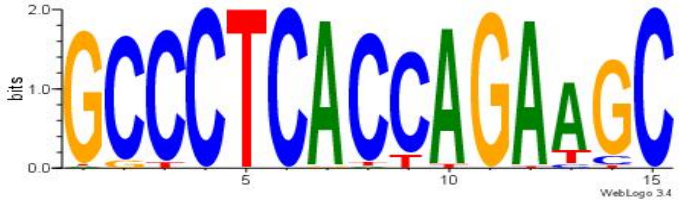

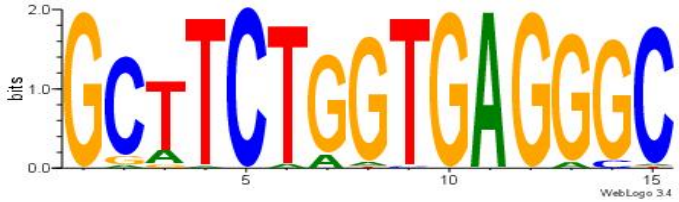

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.101058

Alignment:

```
AGTGTTTCCAAMCTGCT
---TTTCTAGTTT----
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

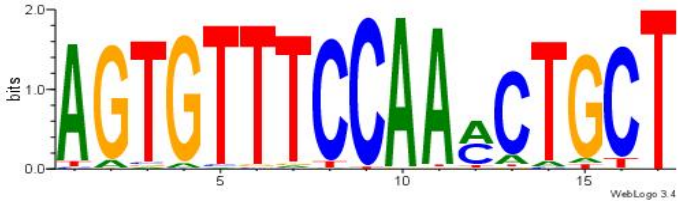

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

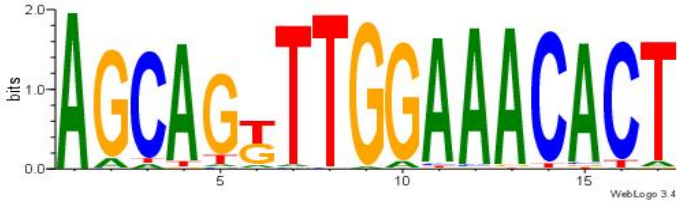

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.101774

Alignment:

```
GCCAATTTCTCCCATTTGGA
-----TTTCTAGTTT-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

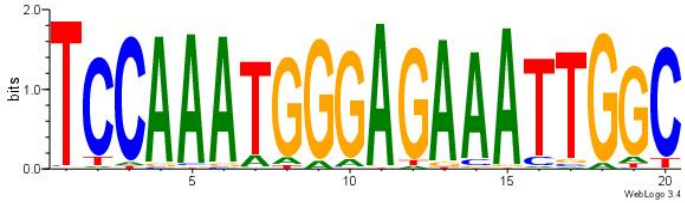

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

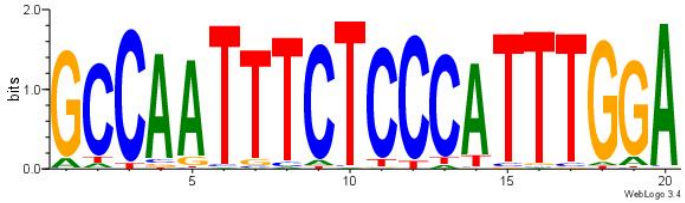

Dataset #: 1 Motif ID: 338 Motif name: Motif 338

Original motif Consensus sequence: CTGCAGCC

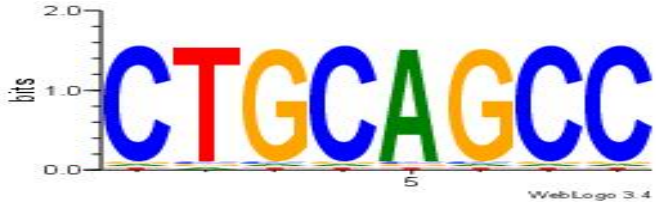

Reverse complement motif Consensus sequence: GGCTGCAG

Best Matches for Motif ID 338 (Highest to Lowest)

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0130204

Alignment:

```
CATGGCGGGCTGCAGGTC
---GGCTGCAG-------
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

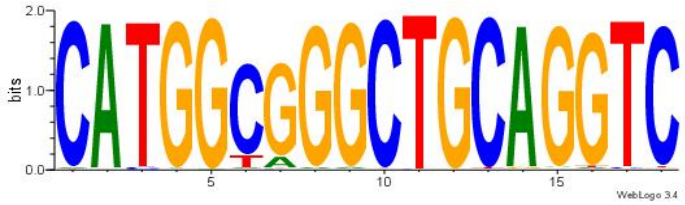

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

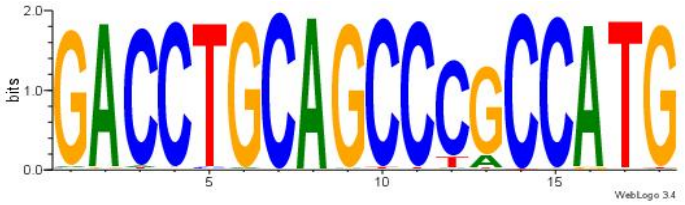

Dataset #:	1
Motif ID:	219
Motif name:	Motif 219
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0154581

Alignment:

```
CTGCAGCCTC
CTGCAGCC--
```

Original motif Consensus sequence: CTGCAGCCTC

Reverse complement motif Consensus sequence: GAGGCTGCAG

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0406936

Alignment:

```
GGGTGCAGGMGGGCTGAGT
GGCTGCAG-----------
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

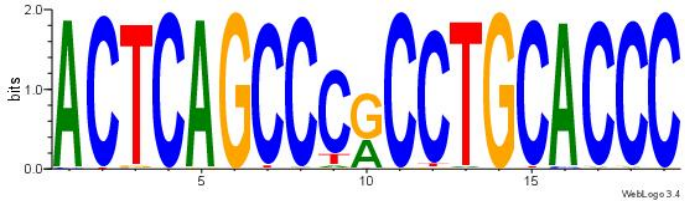

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

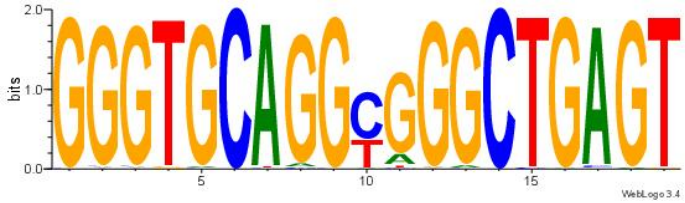

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	8
Similarity score:	0.0413146

Alignment:

```
TACACCCTCCGCAGCC
CTGCAGCC--------
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

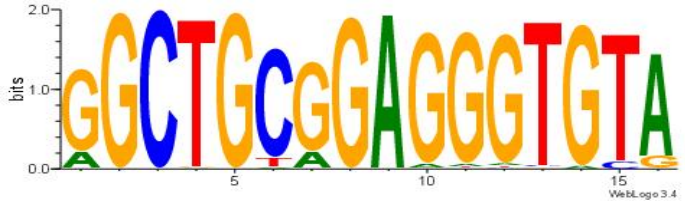

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

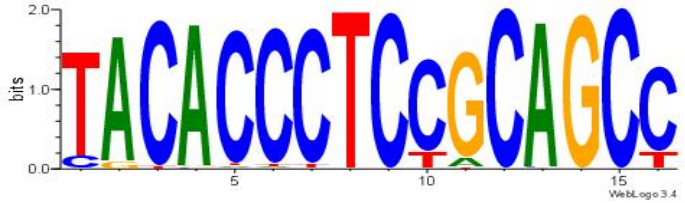

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0415555

Alignment:

```
GTGGGTGCAGTGCA
--GGCTGCAG----
```

Original motif Consensus sequence: TGCACTGCACCCAC

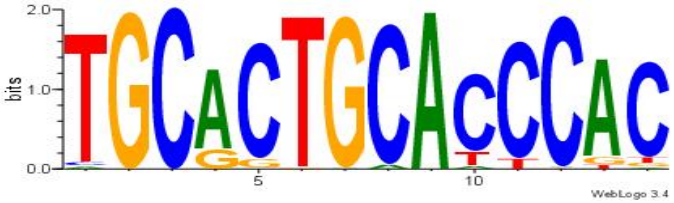

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

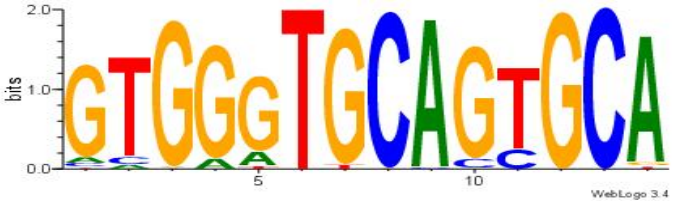

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8

Similarity score: 0.0462509

Alignment:
CATCTGGAGCCCCA
---CTGCAGCC---

Original motif Consensus sequence: CATCTGGAGCCCCA

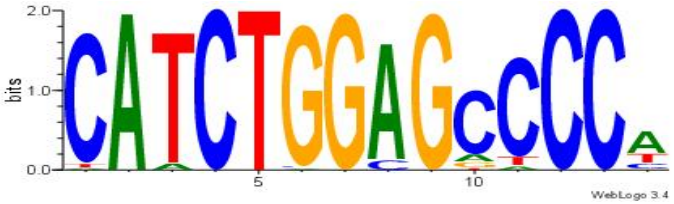

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

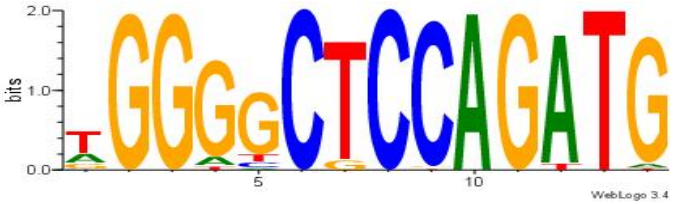

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 8
Similarity score: 0.0527637

Alignment:
AAAGTGCCGAGAKTGCAGC
-GGCTGCAG----------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

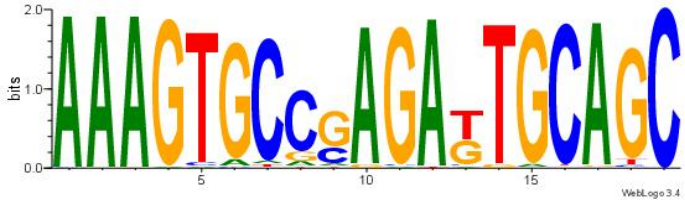

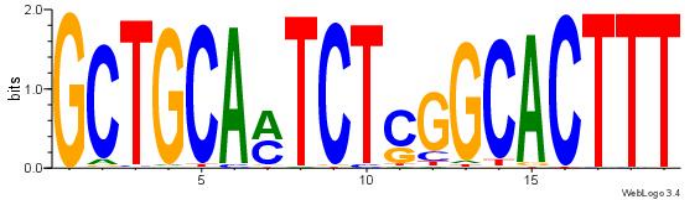

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0566354

Alignment:

```
TGHCCTGCKCCCACTGTCT
-------CTGCAGCC----
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

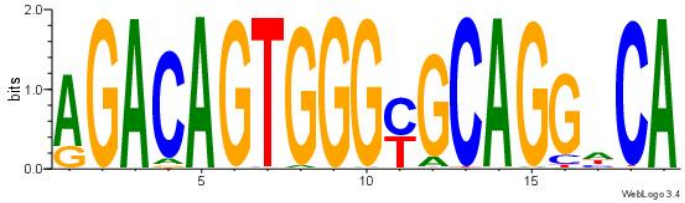

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

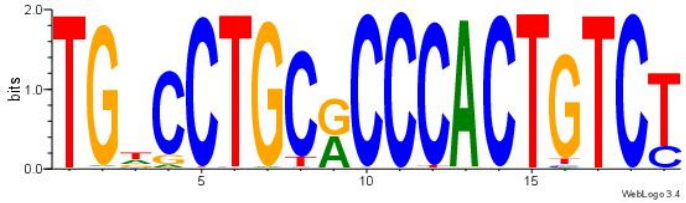

Dataset #:	1

Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0568181

Alignment:

```
CAGACTGCCTCCTCAA
----CTGCAGCC----
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

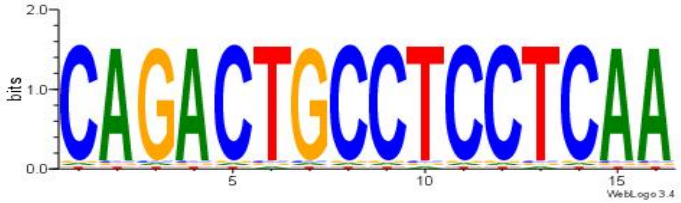

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

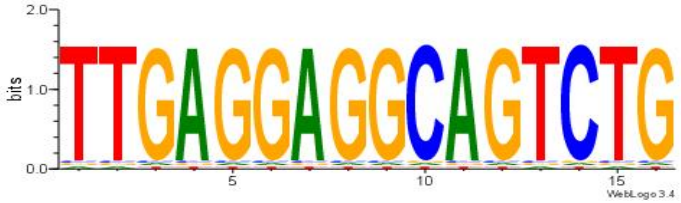

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	8

Similarity score: 0.0602617

Alignment:
TAGATAATAGCTCCAGCTTT
----------CTGCAGCC--

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

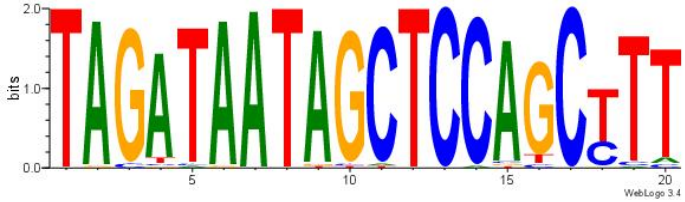

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

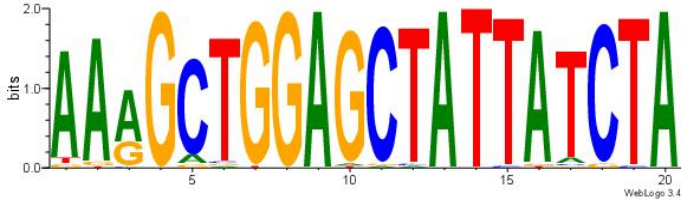

Dataset #: 1
Motif ID: 6
Motif name: Motif 6
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 8
Similarity score: 0.0605519

Alignment:
GCTCACTGCAASCTC
-----CTGCAGCC--

Original motif Consensus sequence: GCTCACTGCAASCTC

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

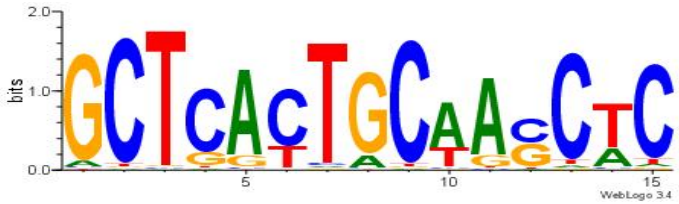

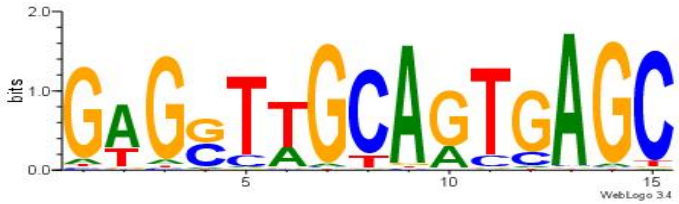

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0616968

Alignment:

```
AGGCGGCTGGGAGG
-----GGCTGCAG-
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

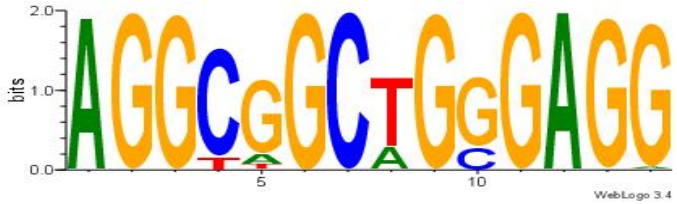

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	239

Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0617865

Alignment:

```
AGCCTCCAGAACTGT
------GGCTGCAG-
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

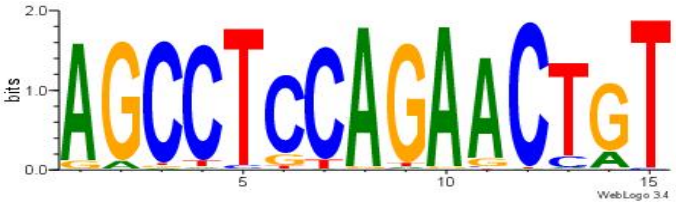

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0621423

Alignment:
TGCTGCTGCTGC
--CTGCAGCC--

Original motif Consensus sequence: GCAGCAGCAGCA

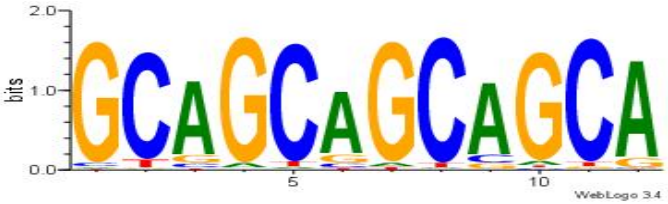

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

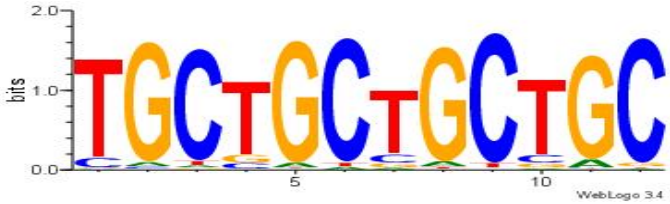

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0646933

Alignment:
AAGCTCGAACTGGGTGGAGC
-GGCTGCAG----------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

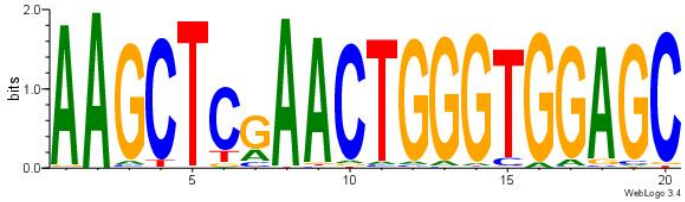

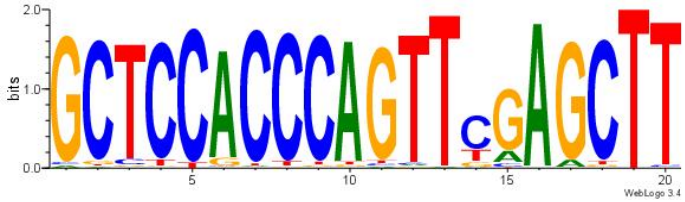

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0647785

Alignment:

```
TTTGGTGCACCCATCA
----CTGCAGCC----
```

Original motif Consensus sequence: TGATGGGTGCACCAAA

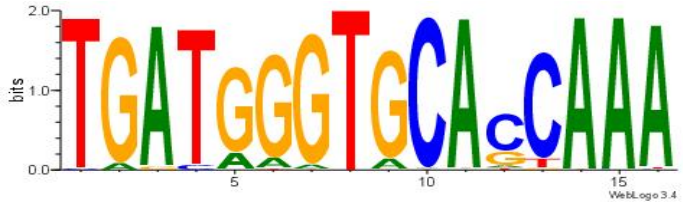

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

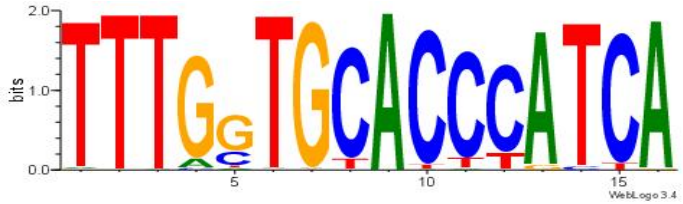

Dataset #:	1

Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0648227

Alignment:

```
MGCTGAGGCAGGAG
------GGCTGCAG
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

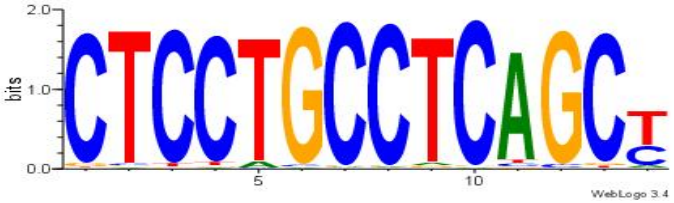

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

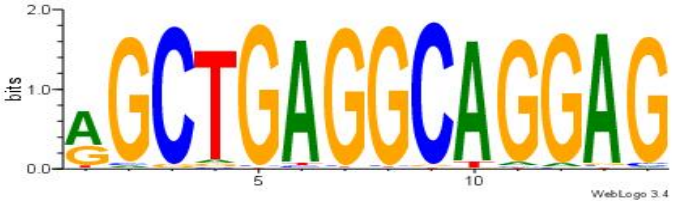

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0649018

Alignment:
GCGGCGGCGGCG
--GGCTGCAG--

Original motif Consensus sequence: CGCCGCCGCCGC

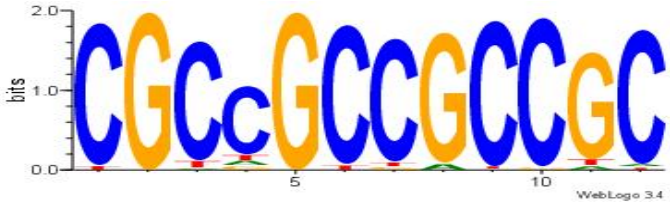

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

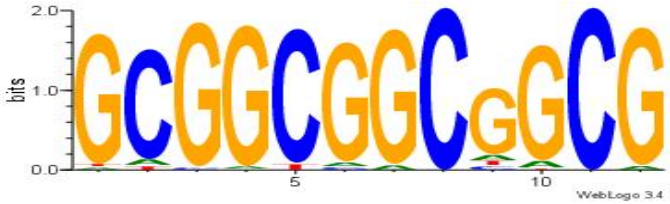

Dataset #:	1
Motif ID:	229
Motif name:	Motif 229
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	8
Similarity score:	0.0663263

Alignment:
GCCTTGCTGCCGC
-GGCTGCAG----

Original motif Consensus sequence: GCCTTGCTGCCGC

Reverse complement motif Consensus sequence: GCGGCAGCAAGG

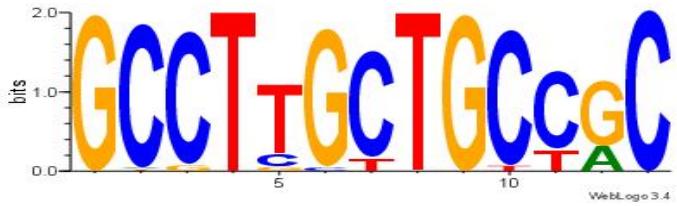

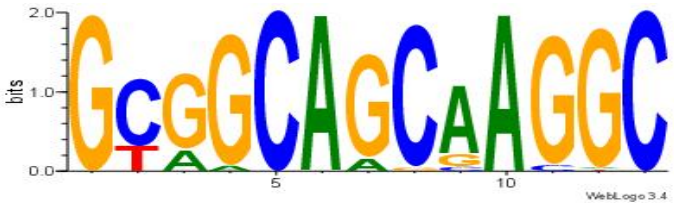

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0666477

Alignment:

```
TGCTGGAGGTCCACTCCAGA
GGCTGCAG------------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

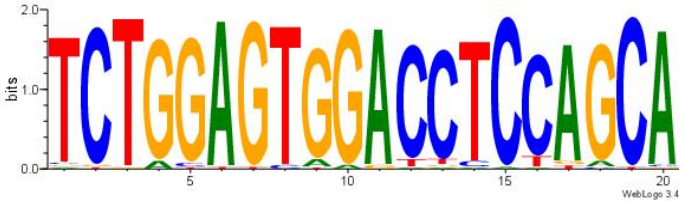

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

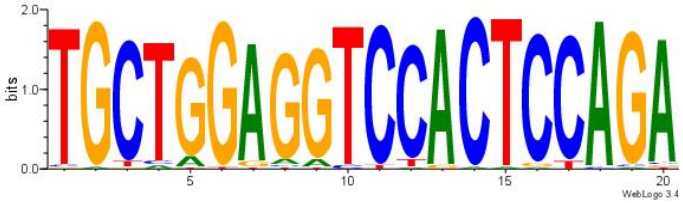

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0670361

Alignment:

```
CGGCTTCATTCTTGAAGTC
-GGCTGCAG----------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

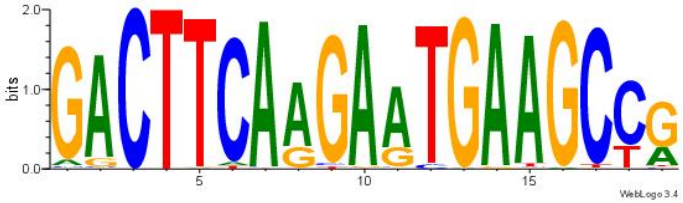

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

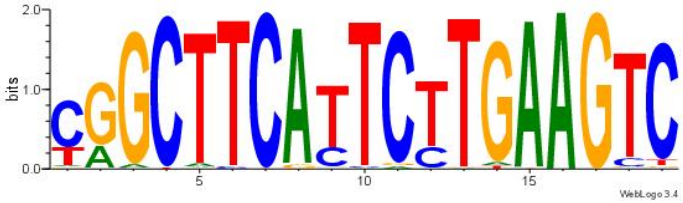

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8

Similarity score: 0.06775

Alignment:
ATGGAATAYTATTCAGCCAT
----------CTGCAGCC--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

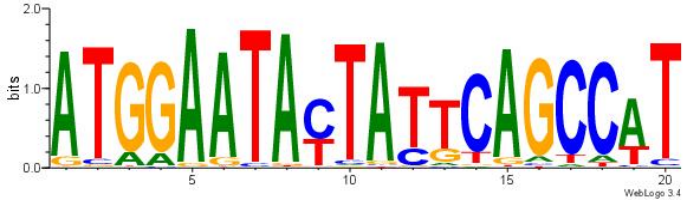

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

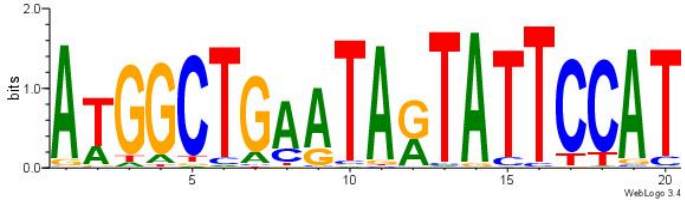

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 8
Similarity score: 0.0679504

Alignment:
CACTGCACTCCAGC
--CTGCAGCC----

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

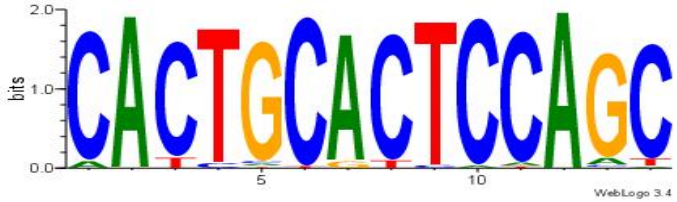

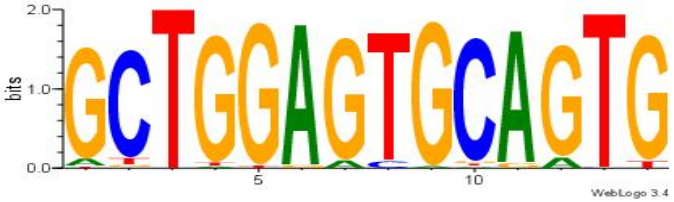

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	8
Similarity score:	0.0680724

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
--------GGCTGCAG----
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

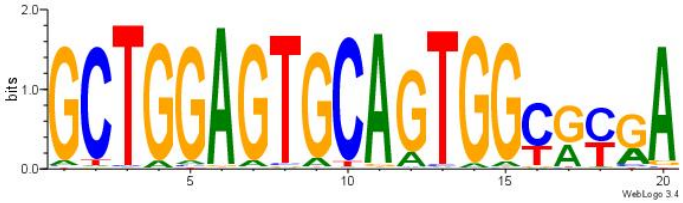

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

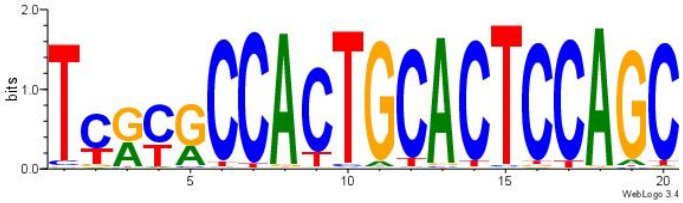

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0682344

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
---------GGCTGCAG---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

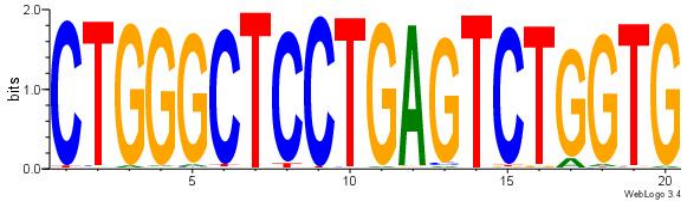

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

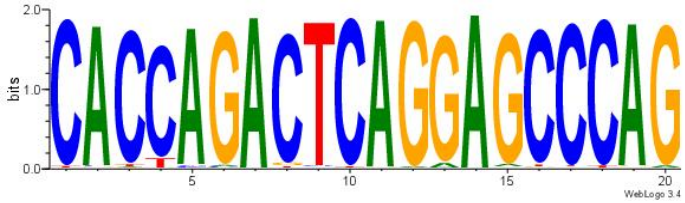

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8

Similarity score: 0.0685545

Alignment:
GCCRGCCCTGCYGGCC
-------CTGCAGCC-

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

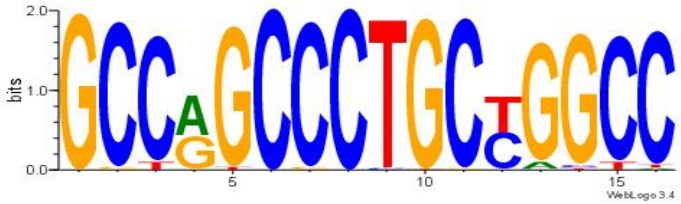

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

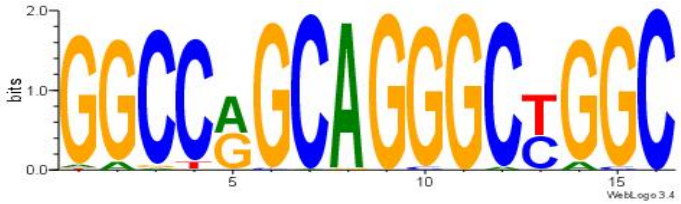

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 8
Similarity score: 0.0689007

Alignment:
GGGCTCCCACAGTGCAGCGG
-CTGCAGCC----------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

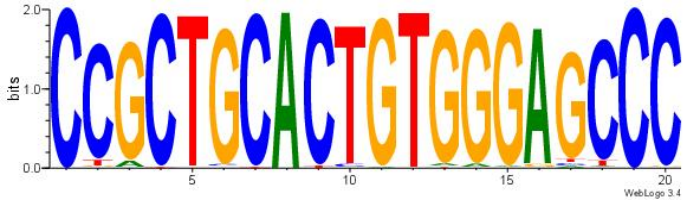

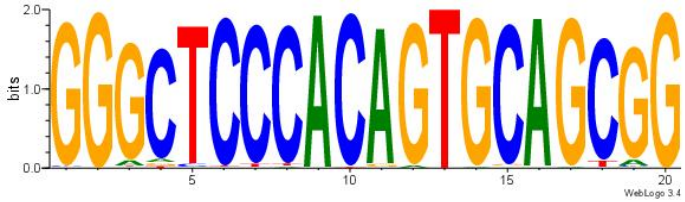

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0691323

Alignment:

```
GGATCCACTGGGTGAAGCCA
-----------CTGCAGCC-
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

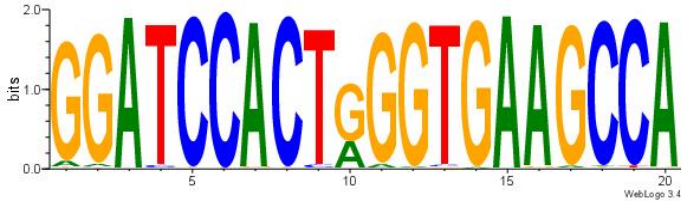

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

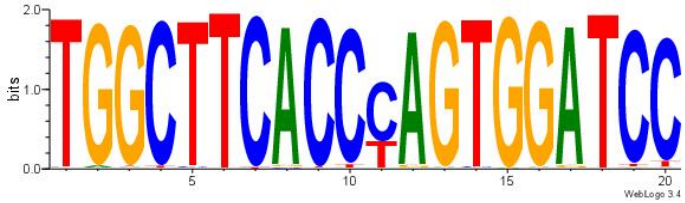

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.0693007

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
------CTGCAGCC------
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

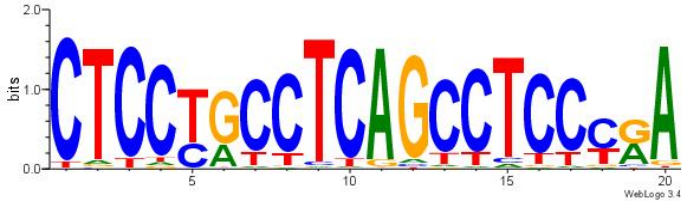

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

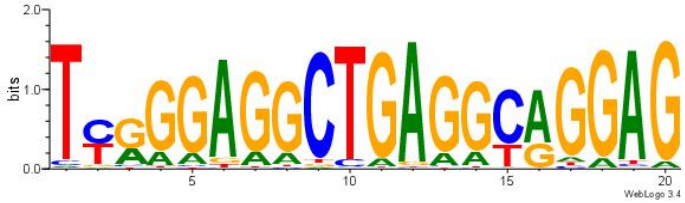

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8

Similarity score: 0.0707832

Alignment:
CATTCTGGGGTCTGGAGGAY
---GGCTGCAG---------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

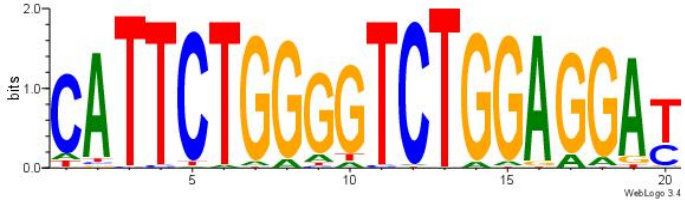

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

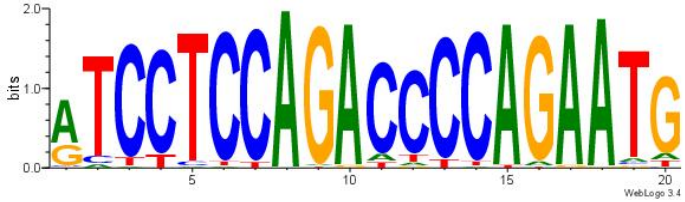

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 8
Similarity score: 0.0709319

Alignment:
ATACAATGGGGGTACAGRC
--GGCTGCAG---------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

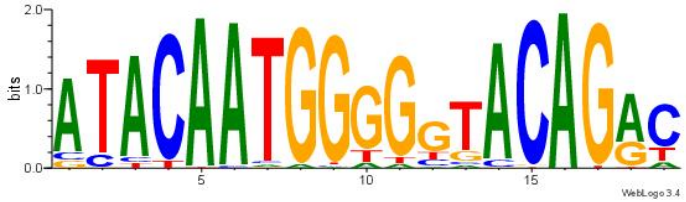

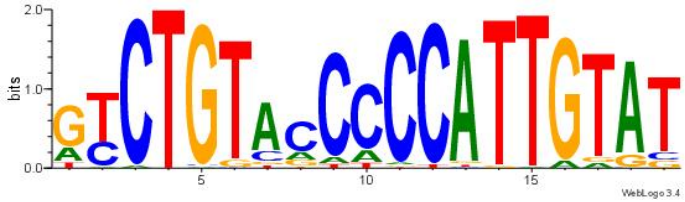

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0713233

Alignment:

```
CATCTGGCAGCCCA
----CTGCAGCC--
```

Original motif Consensus sequence: CATCTGGCAGCCCA

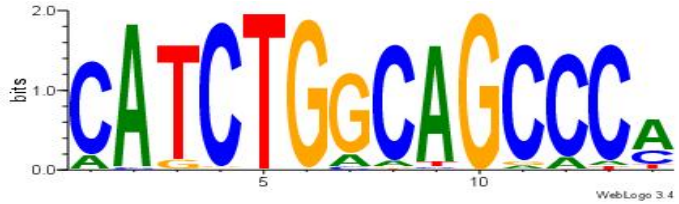

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

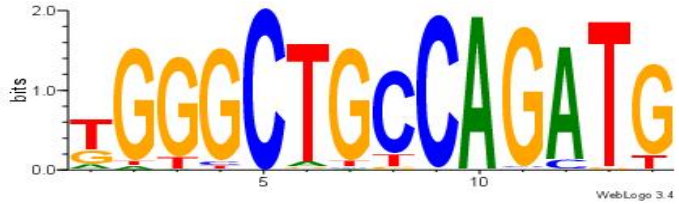

Dataset #:	1
Motif ID:	286

Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0715063

Alignment:

```
CAGGCGGCTGGGAG
----GGCTGCAG--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

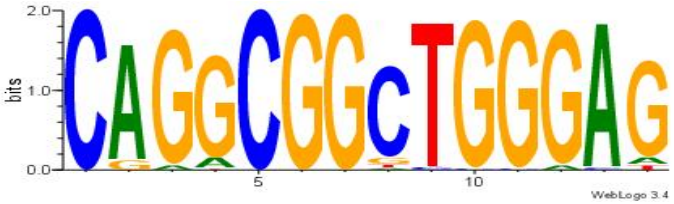

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

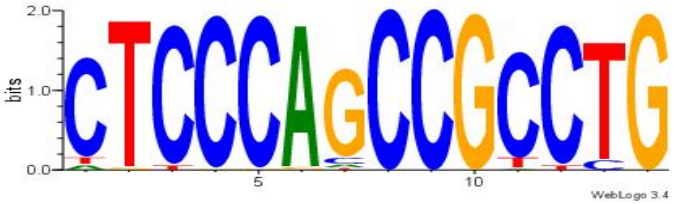

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	8
Similarity score:	0.071839

Alignment:
CGCACTCCTCAGCC
------CTGCAGCC

Original motif Consensus sequence: CGCACTCCTCAGCC

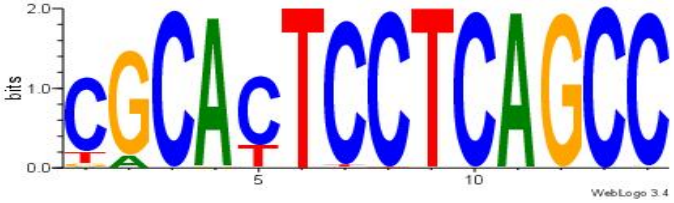

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

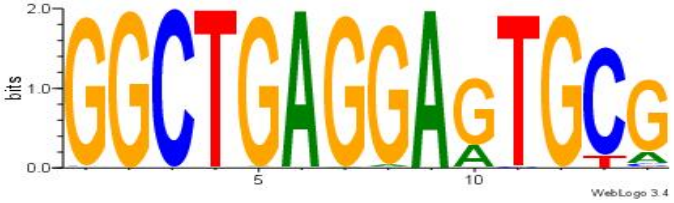

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.076416

Alignment:
GTCTGGMGTCTTGG
----CTGCAGCC--

Original motif Consensus sequence: CCAAGACYCCAGAC

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

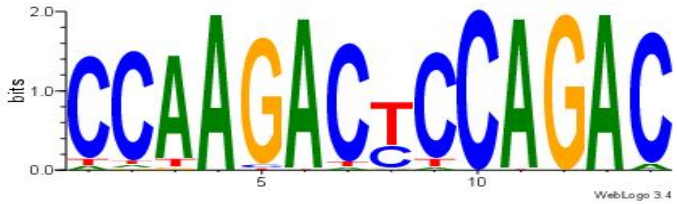

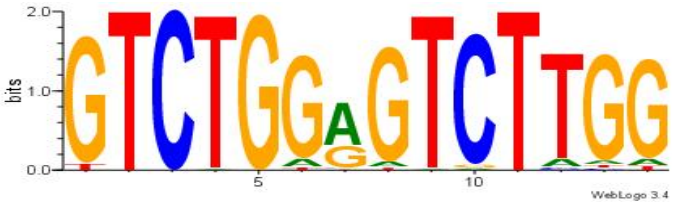

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0767676

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
---CTGCAGCC---------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

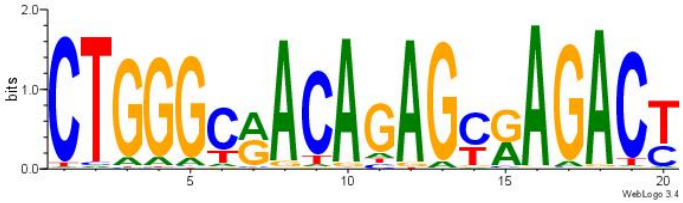

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

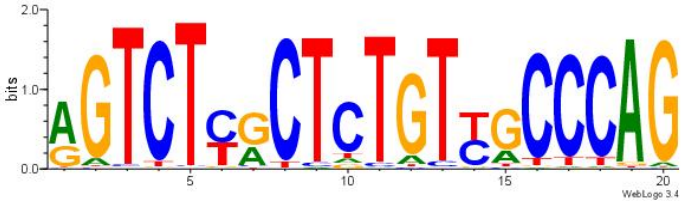

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	8
Similarity score:	0.0785411

Alignment:

```
AACAACASACACTGGGGCCT
-CTGCAGCC-----------
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

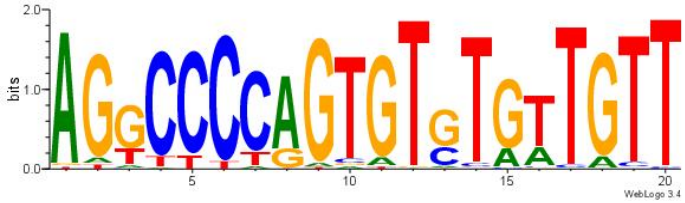

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

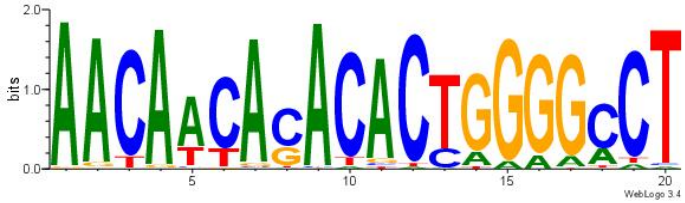

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	8

Similarity score: 0.0799671

Alignment:
GTAGACKGGAGCTGTTCCT
------CTGCAGCC-----

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

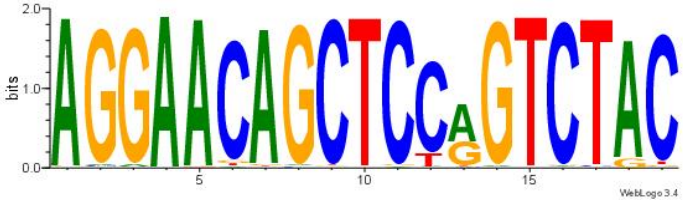

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

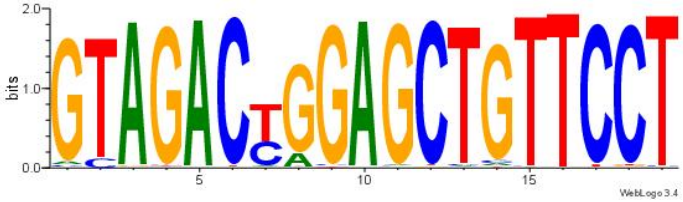

Dataset #: 1
Motif ID: 49
Motif name: Motif 49
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 8
Similarity score: 0.081406

Alignment:
ACATCTGYMMCC
----CTGCAGCC

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

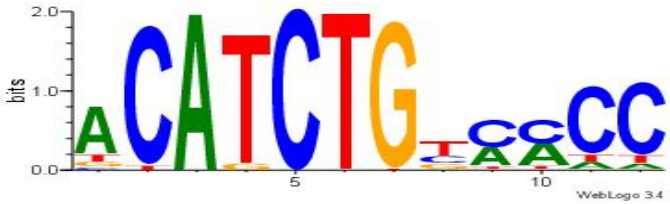

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0815155

Alignment:

```
AGGAGCCCCTCHGCCCR
-------CTGCAGCC--
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

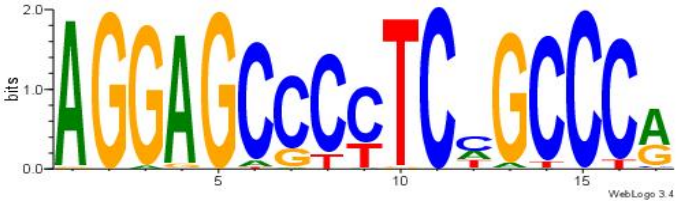

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1

Motif ID:	188
Motif name:	Motif 188
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0819183

Alignment:

```
GATGTGTCTGGAG
-----GGCTGCAG
```

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

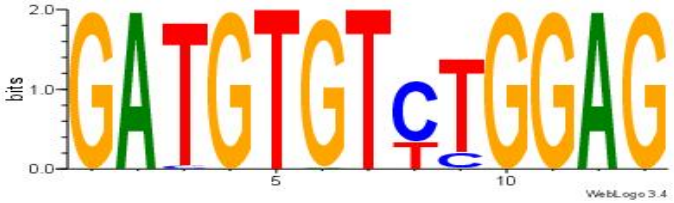

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.082316

Alignment:
GGGRSCACAGGAGCD
CTGCAGCC-------

Original motif Consensus sequence: HGCTCCTGTGSKCCC

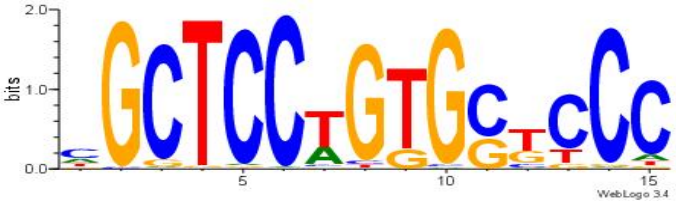

Reverse complement motif Consensus sequence:
GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0824033

Alignment:
AAGGAACAAACTCCRGACAC
----------CTGCAGCC--

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

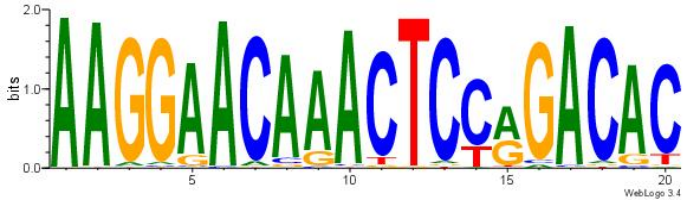

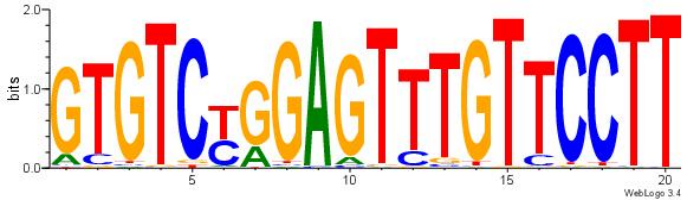

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0838035

Alignment:

```
CTCCAGKTMCATCCATGTTG
------CTGCAGCC------
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

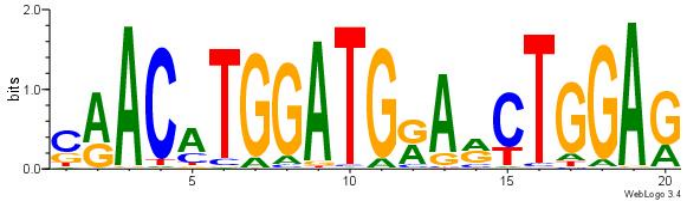

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

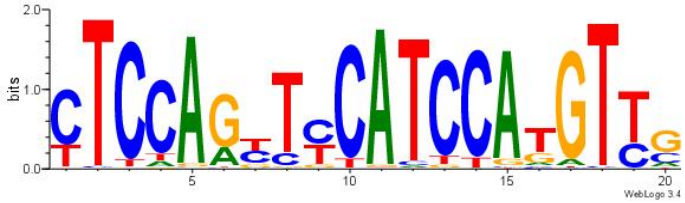

Dataset #:	1

Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0843889

Alignment:

```
CCTGTAATCCCAGC
-----CTGCAGCC-
```

Original motif Consensus sequence: GCTGGGATTACAGG

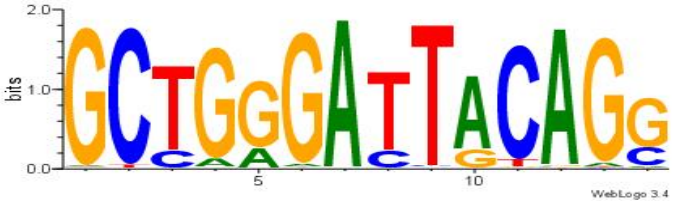

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	5
Motif name:	Motif 5
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.084416

Alignment:
CCTCRGCCTCC
CTGCAGCC---

Original motif Consensus sequence: CCTCRGCCTCC

Reverse complement motif Consensus sequence: GGAGGCKGAGG

Dataset #:	1
Motif ID:	121
Motif name:	Motif 121
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0847075

Alignment:
TGGAGGTTSTAG
----GGCTGCAG

Original motif Consensus sequence: CTASAACCTCCA

Reverse complement motif Consensus sequence: TGGAGGTTSTAG

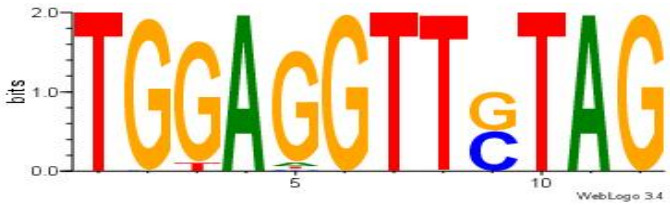

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0849133

Alignment:

```
GGGACWGCACAT
--GGCTGCAG--
```

Original motif Consensus sequence: ATGTGCWGTCCC

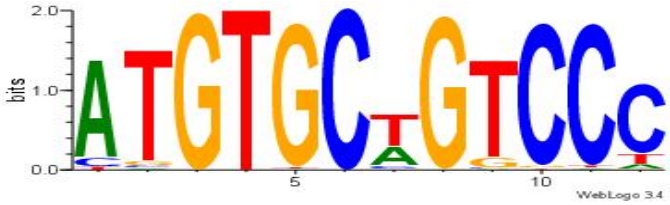

Reverse complement motif Consensus sequence: GGGACWGCACAT

Dataset #:	1
Motif ID:	73

Motif name:	Motif 73
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0852272

Alignment:

```
CAAACTGCAAG
-GGCTGCAG--
```

Original motif Consensus sequence: CAAACTGCAAG

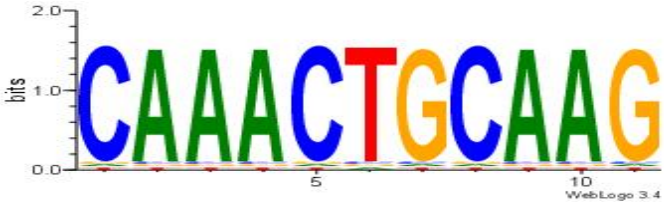

Reverse complement motif Consensus sequence: CTTGCAGTTTG

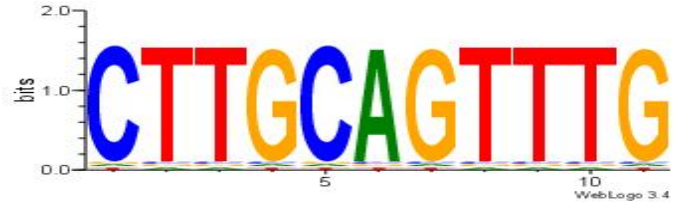

Dataset #:	1
Motif ID:	272
Motif name:	Motif 272
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0852272

Alignment:
GTGACAGCTG
--GGCTGCAG

Original motif Consensus sequence: CAGCTGTCAC

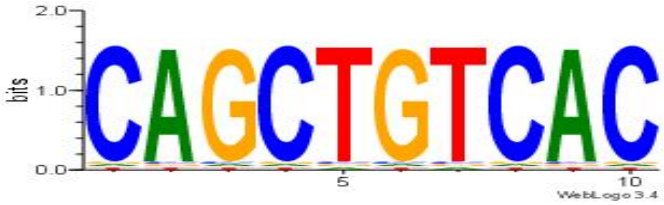

Reverse complement motif Consensus sequence: GTGACAGCTG

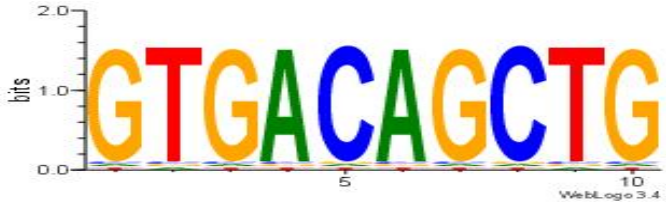

Dataset #: 1 Motif ID: 339 Motif name: Motif 339

Original motif Consensus sequence: CTCACCTCCTGC

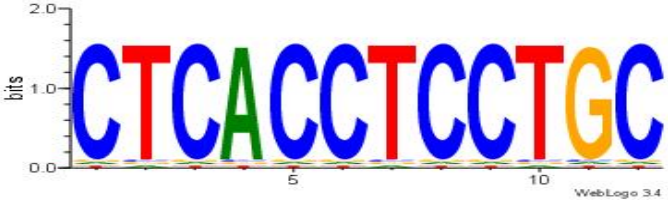

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

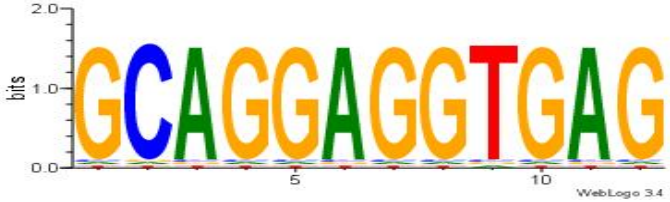

Best Matches for Motif ID 339 (Highest to Lowest)

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 12
Similarity score: 0.0722162

Alignment:
CTCCTGACCTCGTGATC
--CTCACCTCCTGC---

Original motif Consensus sequence: GATCACGAGGTCAGGAG

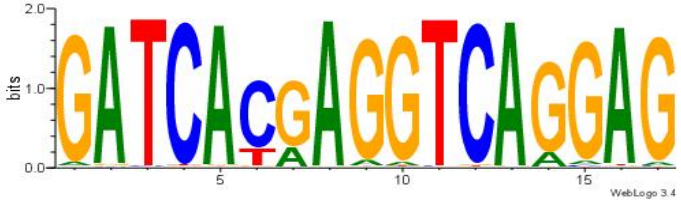

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

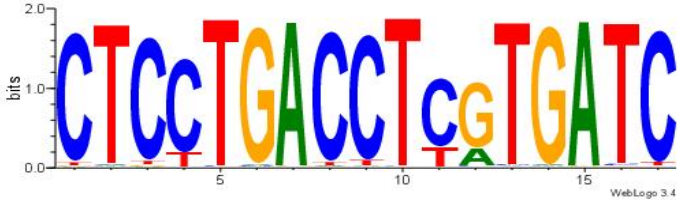

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.0795057

Alignment:
AGGTCCTTCAGGAGGTATTC
-GCAGGAGGTGAG-------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

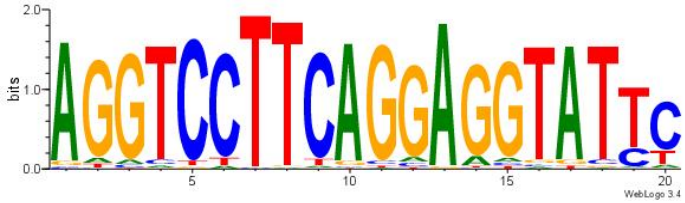

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

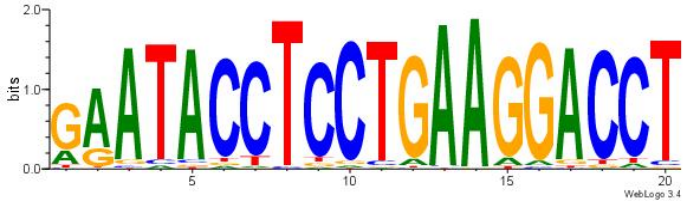

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0820882

Alignment:

```
GGGTGCAGGMGGGCTGAGT
----GCAGGAGGTGAG---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

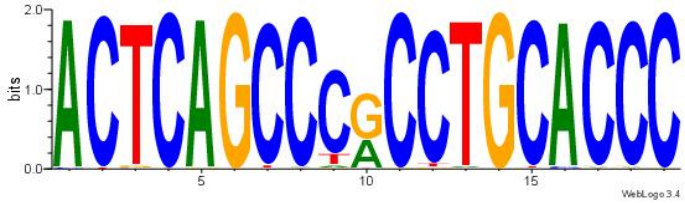

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

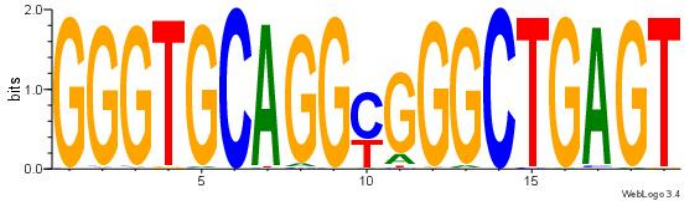

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0822961

Alignment:

```
CTCAGTGTTAATCTCCTGTC
-------CTCACCTCCTGC-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

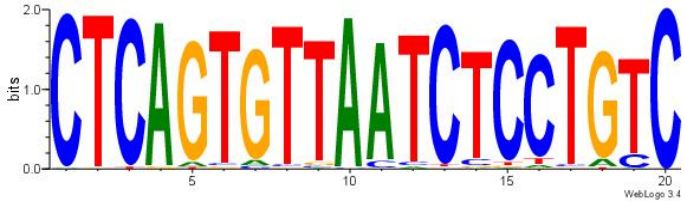

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

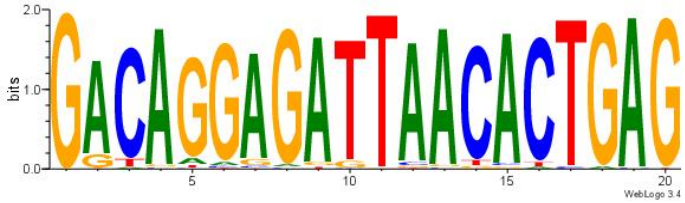

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 12
Similarity score: 0.082371

Alignment:
AGCTCMKCCTCCTGTCAGAT
-----CTCACCTCCTGC---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

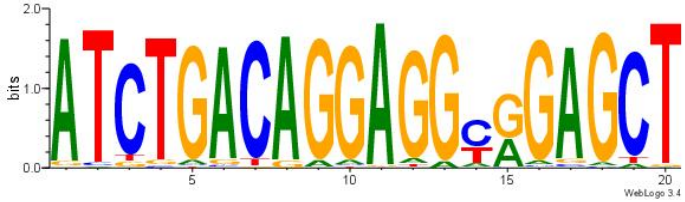

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

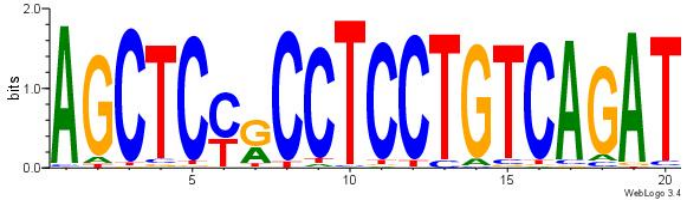

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0843633

Alignment:
GCTGGAGTGCAGTGGCRYGA
--------GCAGGAGGTGAG

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

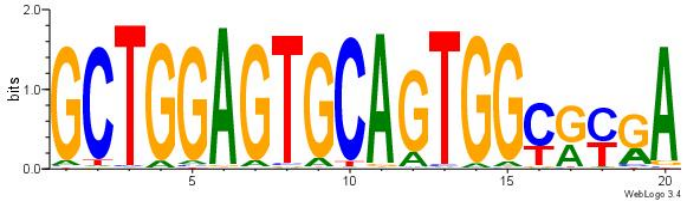

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

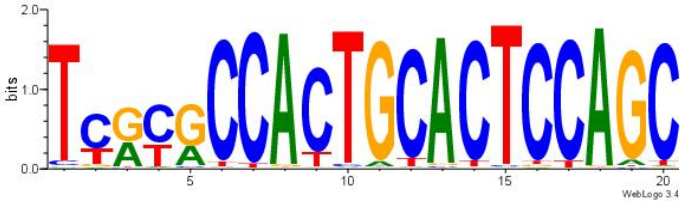

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0847329

Alignment:

```
TGCTGGAGGTCCACTCCAGA
-GCAGGAGGTGAG-------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

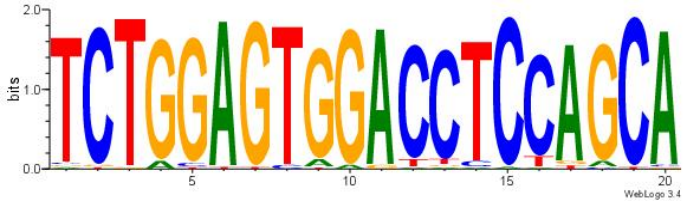

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

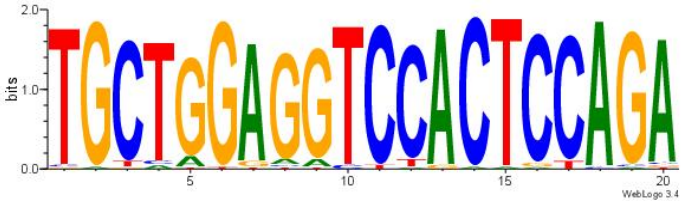

Dataset #:	1
Motif ID:	136
Motif name:	Motif 136
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.08512

Alignment:

```
CCCTCACTGCCCGGGG
--CTCACCTCCTGC--
```

Original motif Consensus sequence: CCCTCACTGCCCGGGG

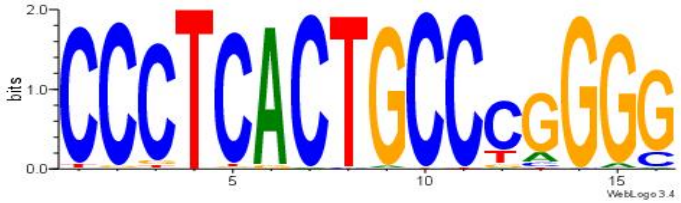

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

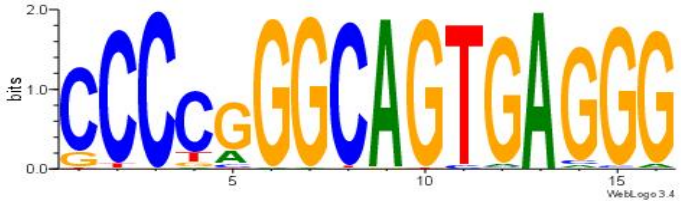

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9

Number of overlap: 12
Similarity score: 0.0852419

Alignment:
GGAGGTGTGGAGGGAGAGGC
GCAGGAGGTGAG--------

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

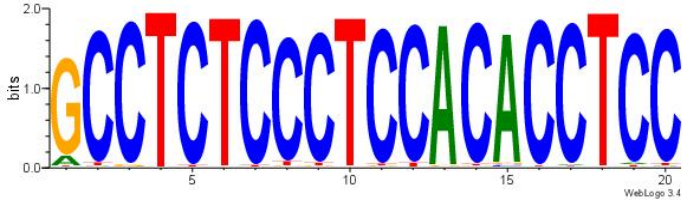

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

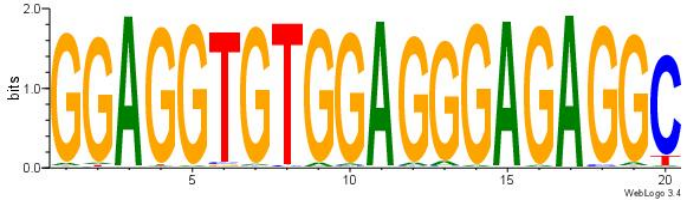

Dataset #: 1
Motif ID: 285
Motif name: Motif 285
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0861747

Alignment:
GCTGGAGTGCAGTG
GCAGGAGGTGAG--

Original motif Consensus sequence: CACTGCACTCCAGC

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

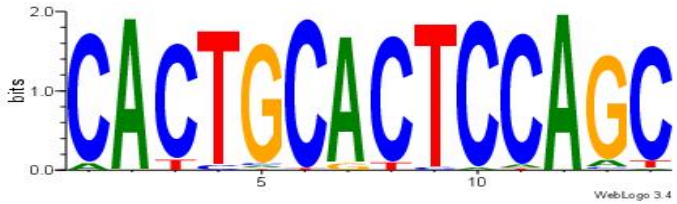

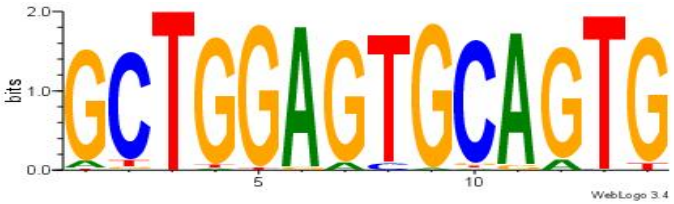

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0872802

Alignment:

```
CACCAGACTCAGGAGCCCAG
--------GCAGGAGGTGAG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

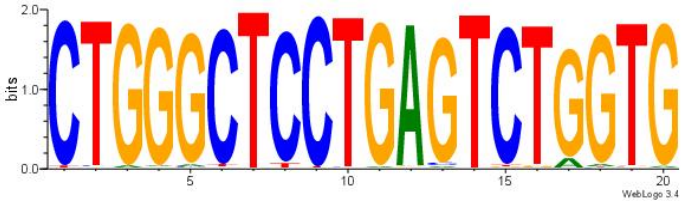

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

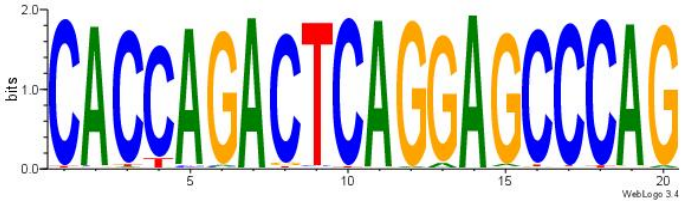

Dataset #: 1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.087292

Alignment:

```
GAAATTGACTTCCTCCT
-CTCACCTCCTGC----
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

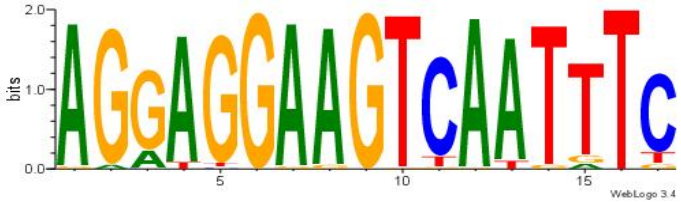

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

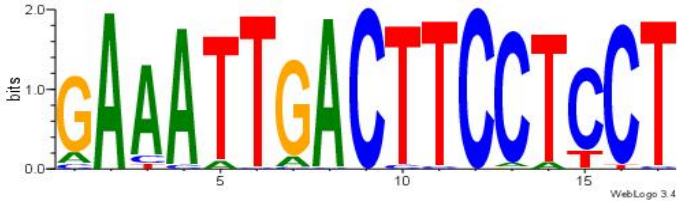

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0873663

Alignment:
GCCCTCACCAGAAGC
---CTCACCTCCTGC

Original motif Consensus sequence: GCCCTCACCAGAAGC

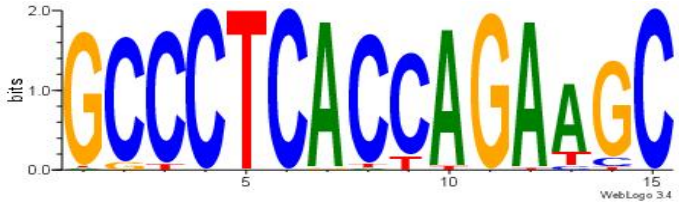

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

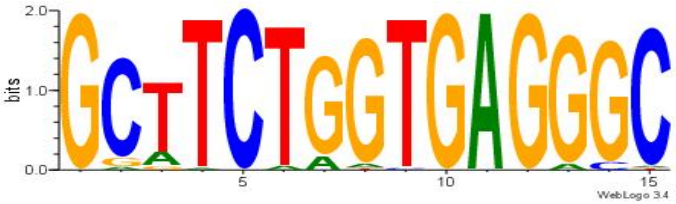

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.0880042

Alignment:
TCAGGAGTGAAGCTGC
GCAGGAGGTGAG----

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

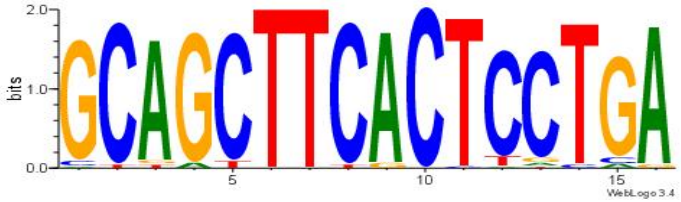

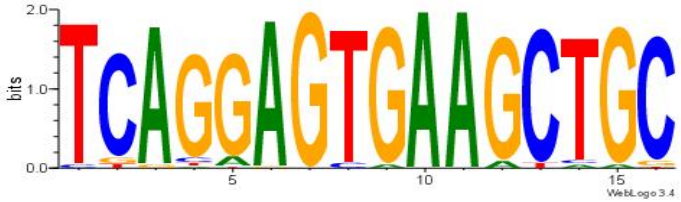

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0886736

Alignment:

```
TAMGACCTCAGGTCCTCAG
-CTCACCTCCTGC------
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

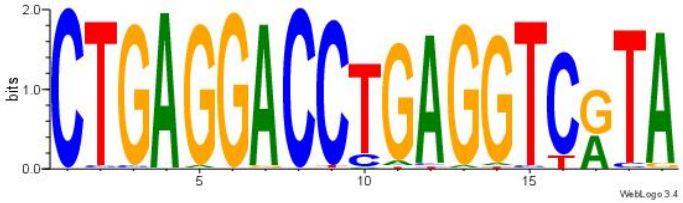

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

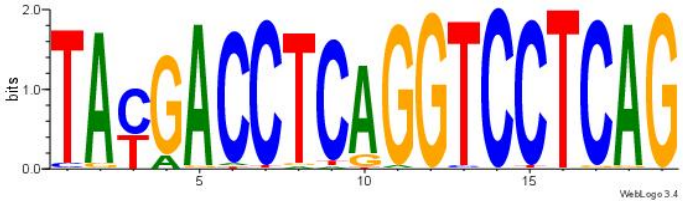

Dataset #:	1

Motif ID:	344
Motif name:	Motif 344
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0890729

Alignment:

```
GTCATCTCCTATG
CTCACCTCCTGC-
```

Original motif Consensus sequence: CATAGGAGATGAC

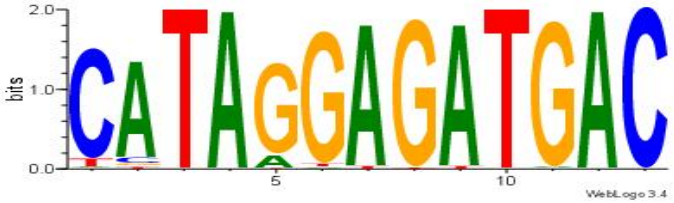

Reverse complement motif Consensus sequence: GTCATCTCCTATG

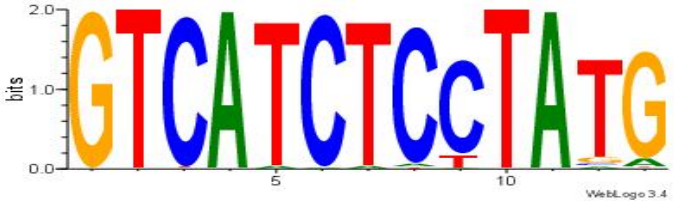

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0919935

Alignment:
GMTTAGCTCCCACTTA
---CTCACCTCCTGC-

Original motif Consensus sequence: TAAGTGGGAGCTAARC

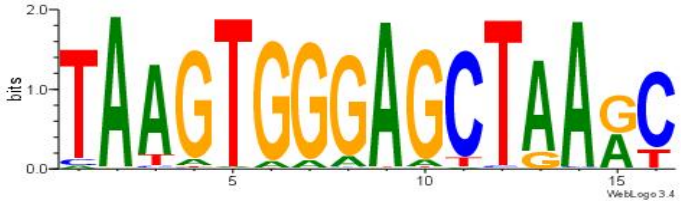

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

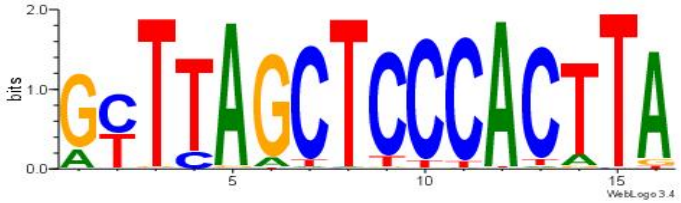

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0946371

Alignment:
CACCAGGAGATTATATCCCR
------GCAGGAGGTGAG--

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

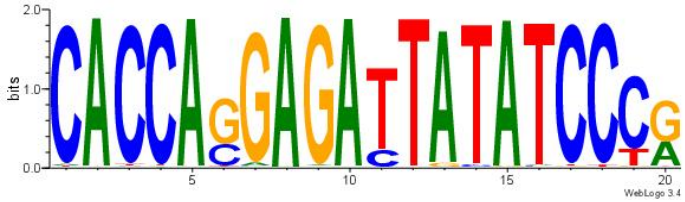

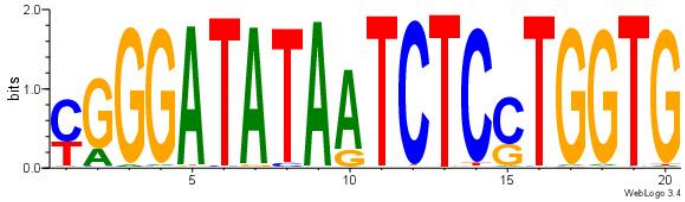

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0946969

Alignment:

```
CAGACTGCCTCCTCAA
CTCACCTCCTGC----
```

Original motif Consensus sequence: CAGACTGCCTCCTCAA

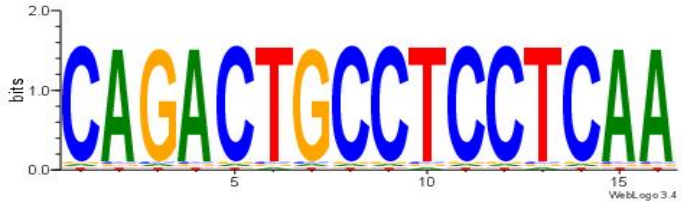

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

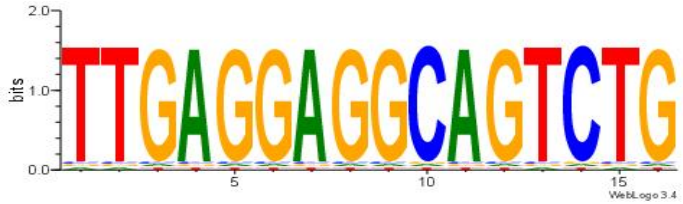

Dataset #:	1

Motif ID:	197
Motif name:	Motif 197
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0946969

Alignment:

```
CGCCCGGCCAGC
CTCACCTCCTGC
```

Original motif Consensus sequence: CGCCCGGCCAGC

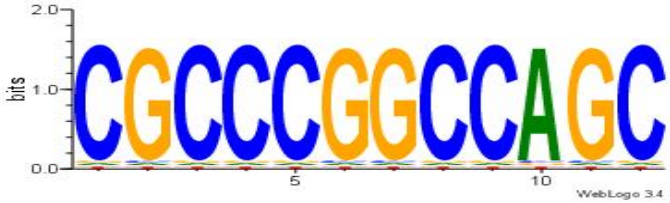

Reverse complement motif Consensus sequence: GCTGGCCGGGCG

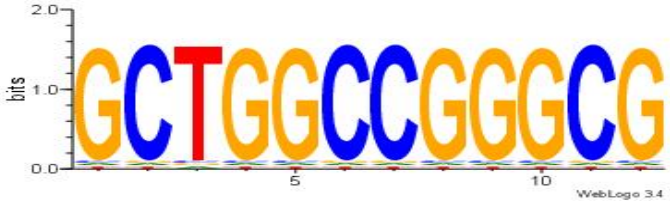

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0968224

Alignment:
GAGSTTGCAGTGAGC
--GCAGGAGGTGAG-

Original motif Consensus sequence: GCTCACTGCAASCTC

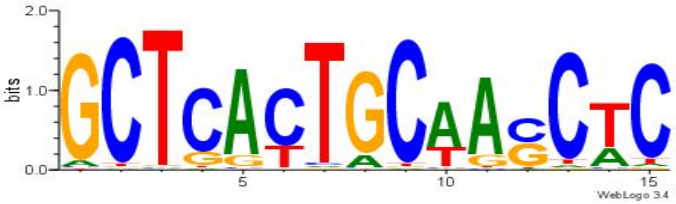

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

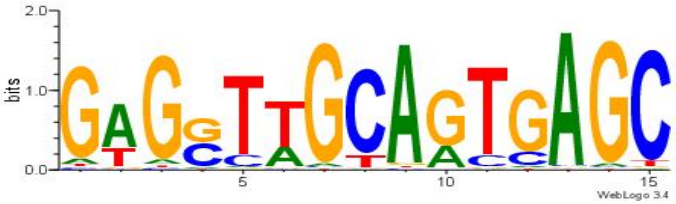

Dataset #:	1
Motif ID:	82
Motif name:	Motif 82
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0999175

Alignment:
GCTTAGCACCYGGGCCAGC
-CTCACCTCCTGC------

Original motif Consensus sequence: GCTTAGCACCYGGGCCAGC

Reverse complement motif Consensus sequence: GCTGGCCCKGGTGCTAAGC

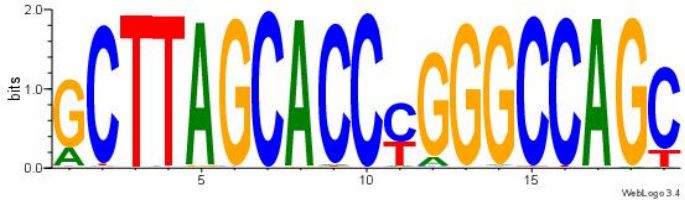

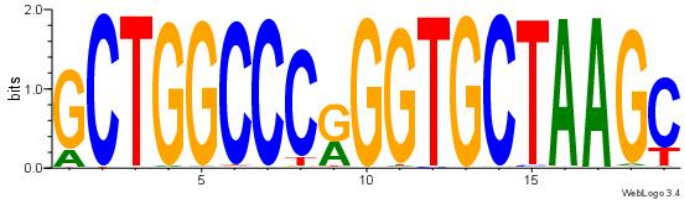

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0999512

Alignment:

```
CACTTCCCAGACGGGGCG
GCAGGAGGTGAG------
```

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

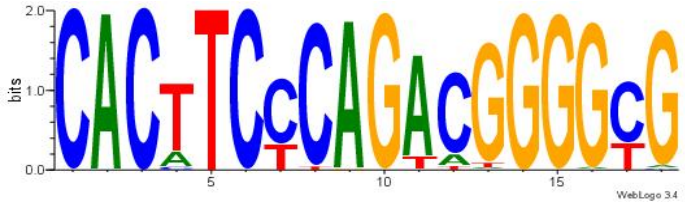

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

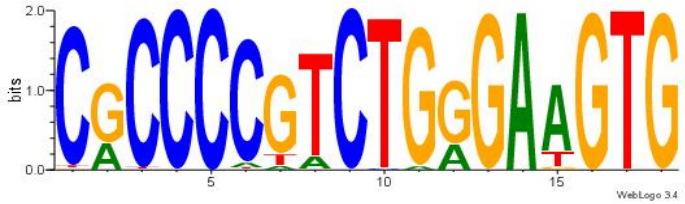

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.101027

Alignment:

```
TGGCTTCACCCAGTGGATCC
----CTCACCTCCTGC----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

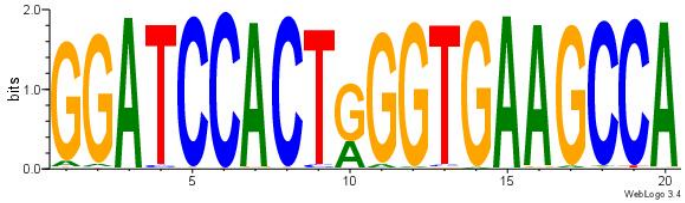

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

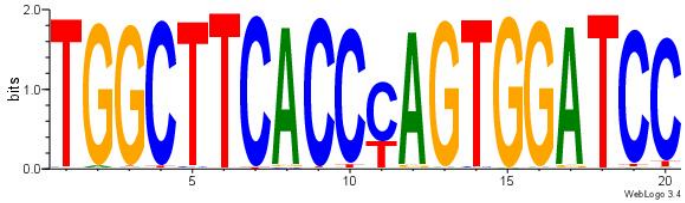

Dataset #:	1
Motif ID:	161
Motif name:	Motif 161
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.101039

Alignment:
VCCDCCTCCKCCTCCTC
-----CTCACCTCCTGC

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

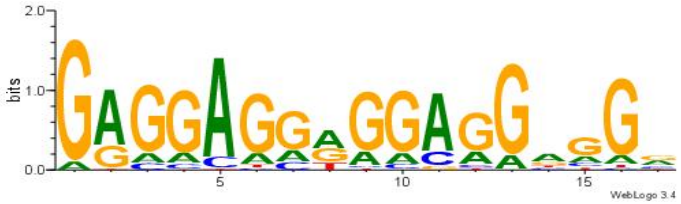

Reverse complement motif Consensus sequence:
VCCDCCTCCKCCTCCTC

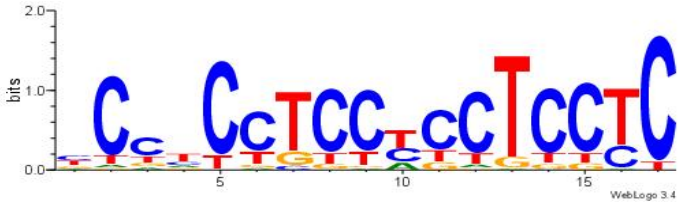

Dataset #: 1
Motif ID: 89
Motif name: Motif 89
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.101642

Alignment:
TACACCCTCCGCAGCC
----CTCACCTCCTGC

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

Reverse complement motif Consensus sequence:
TACACCCTCCGCAGCC

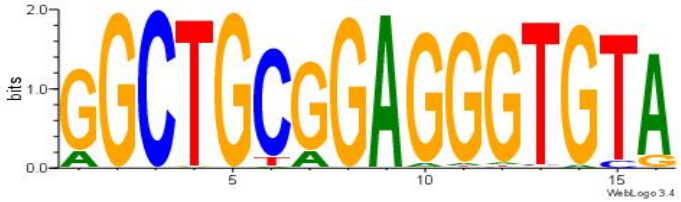

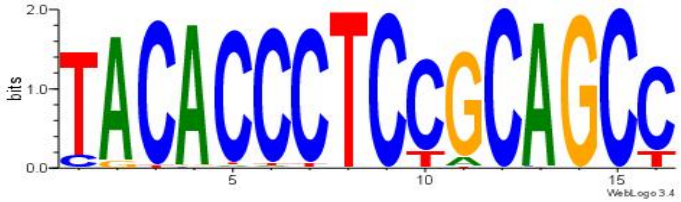

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.101906

Alignment:
VMATTTAKTGAGCACCTACT
-CTCACCTCCTGC-------

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

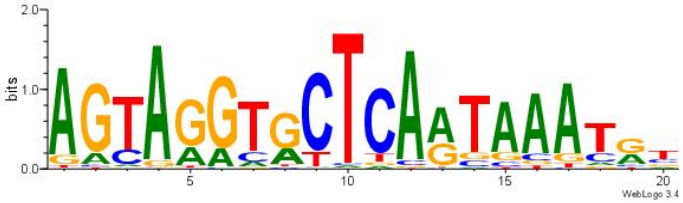

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

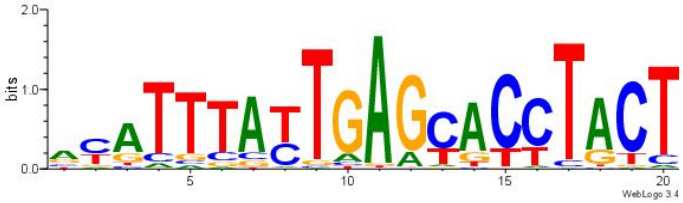

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102063

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
--------GCAGGAGGTGAG
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

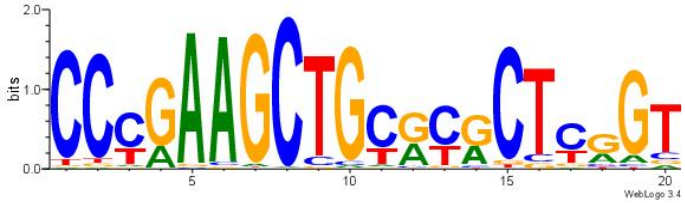

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

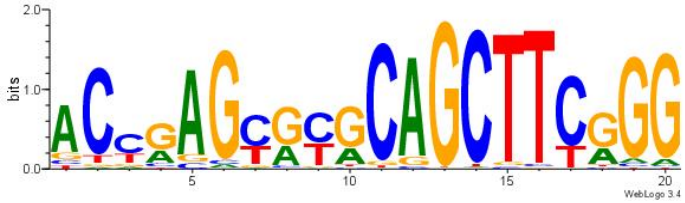

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.102433

Alignment:
CTCAGGAATGGAAAACC
----GCAGGAGGTGAG-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

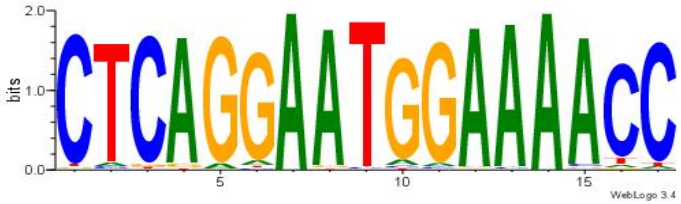

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

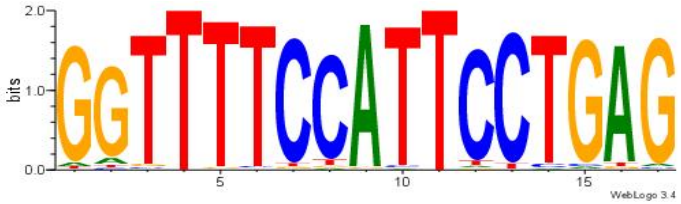

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.102464

Alignment:
GGAGGATCACKTGAG
---GCAGGAGGTGAG

Original motif Consensus sequence: CTCARGTGATCCTCC

Reverse complement motif Consensus sequence: GGAGGATCACKTG

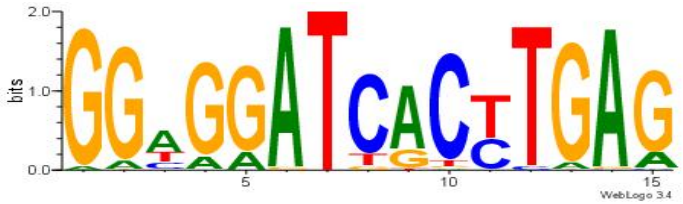

Dataset #:	1
Motif ID:	266
Motif name:	Motif 266
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.103478

Alignment:

```
TGCTGCTGCTGC
CTCACCTCCTGC
```

Original motif Consensus sequence: GCAGCAGCAGCA

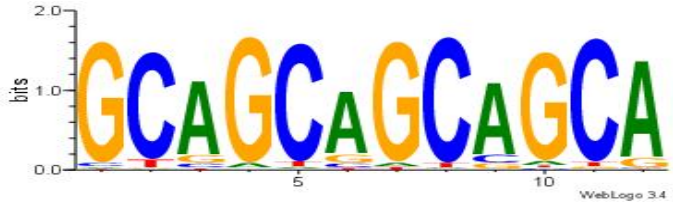

Reverse complement motif Consensus sequence: TGCTGCTGCTGC

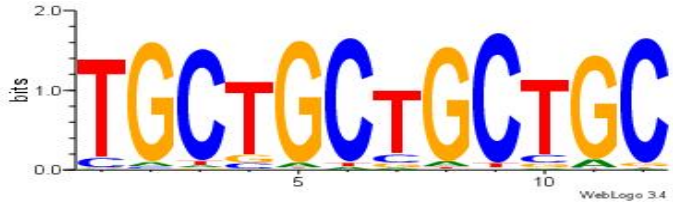

Dataset #:	1
Motif ID:	221

Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.10415

Alignment:

```
GTGTCCCCTTCCTCCC
--CTCACCTCCTGC--
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

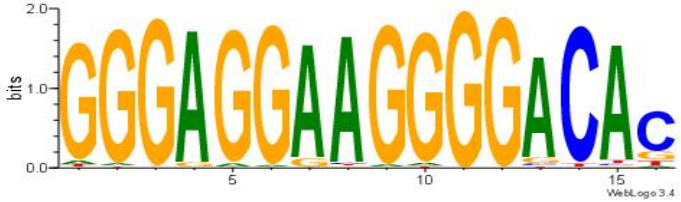

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

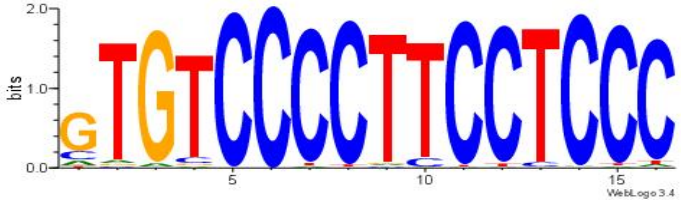

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.104416

Alignment:
GTAACACTCACCGCGARGGT
------CTCACCTCCTGC--

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

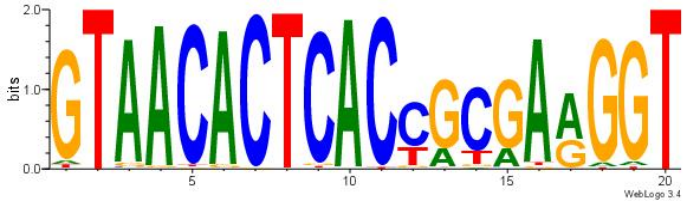

Reverse complement motif Consensus sequence:
ACCKTCGCGGTGAGTGTTAC

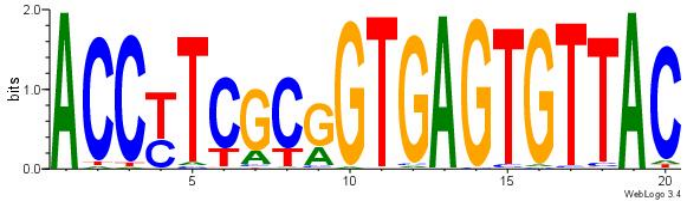

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.104616

Alignment:
GGGGGCTGACCCCCCCACC
-----CTCACCTCCTGC--

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

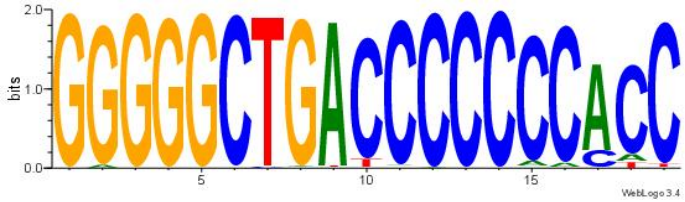

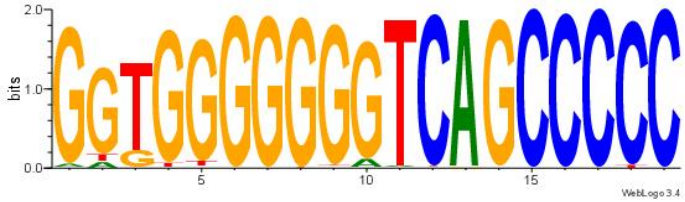

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 12
Similarity score: 0.104656

Alignment:
ACTGTCTTCCACCTCCACAT
-------CTCACCTCCTGC-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

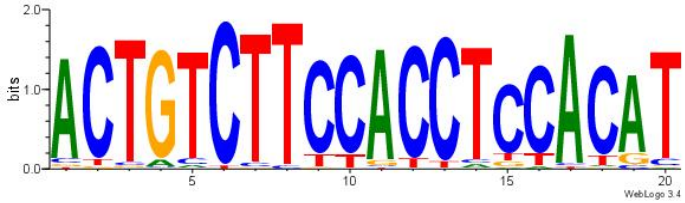

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

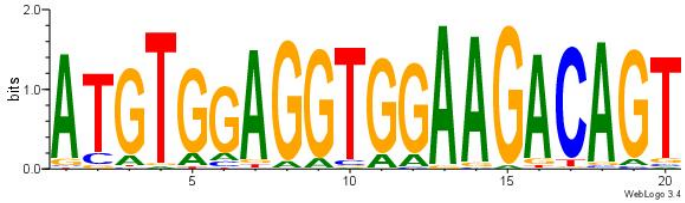

Dataset #: 1

Motif ID:	43
Motif name:	Motif 43
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.10477

Alignment:

```
AGGAGRCMCTCTGCCTGGC
-CTCACCTCCTGC------
```

Original motif Consensus sequence: GCCAGGCAGAGRGKCTCCT

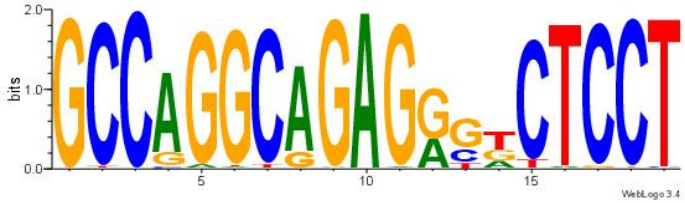

Reverse complement motif Consensus sequence: AGGAGRCMCTCTGCCTGGC

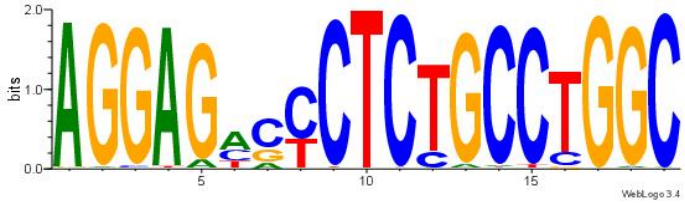

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.1055

Alignment:
GCCTCCTTGAGCTGTGGTGG
----GCAGGAGGTGAG----

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

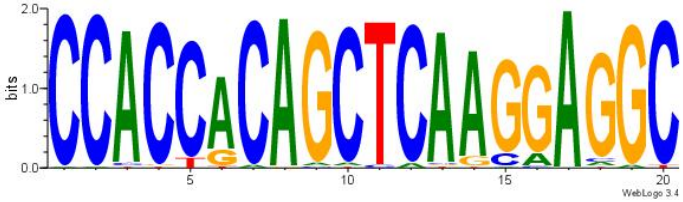

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

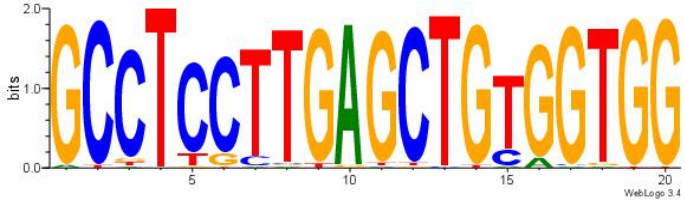

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.105631

Alignment:
AGTTCCGGGTGGGCGTGGG
GCAGGAGGTGAG-------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

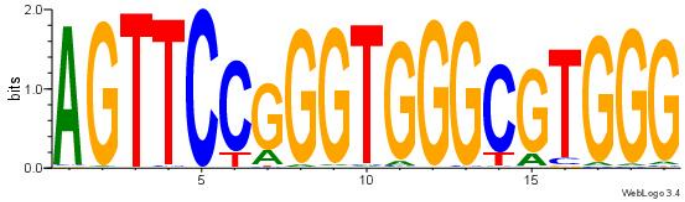

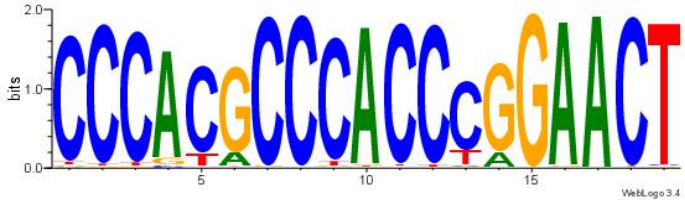

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.10599

Alignment:

```
GCTCCACCCAGTTCGAGCTT
--CTCACCTCCTGC------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

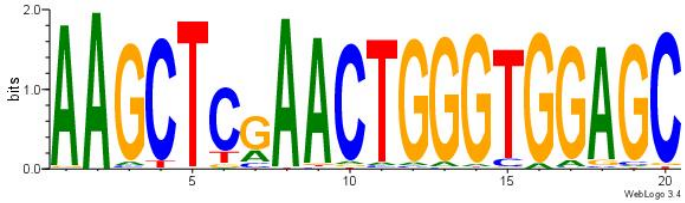

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

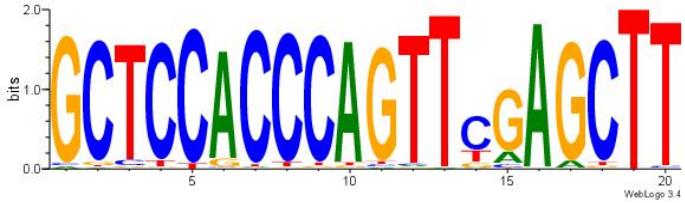

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.106063

Alignment:

```
CAAGCGCCAGCTCATGTC
-CTCACCTCCTGC-----
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

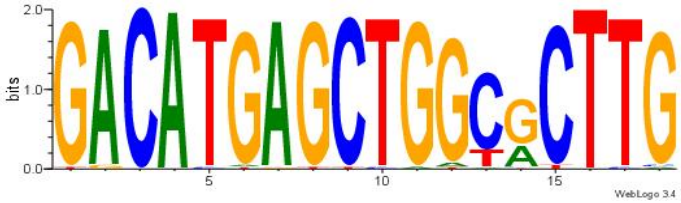

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

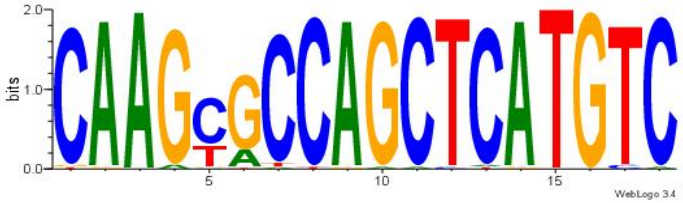

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.106066

Alignment:
CCGCTGCACTGTGGGAGCCC
---GCAGGAGGTGAG-----

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

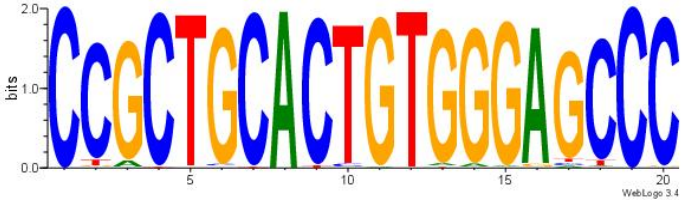

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

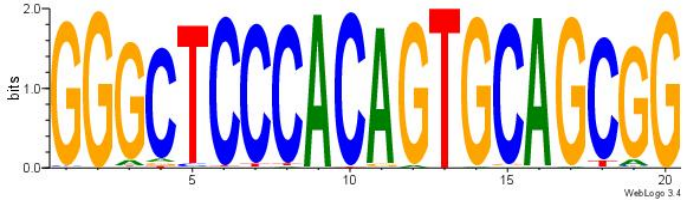

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.106148

Alignment:
ACATCCCAGACGATGGGCG
--GCAGGAGGTGAG-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

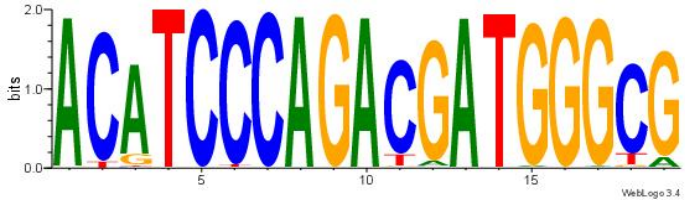

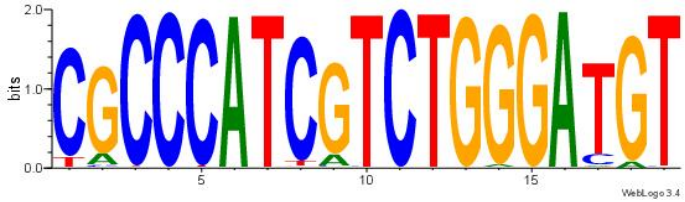

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.106257

Alignment:

```
GGTGGAGCTGCCTGCCAGTC
GCAGGAGGTGAG--------
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

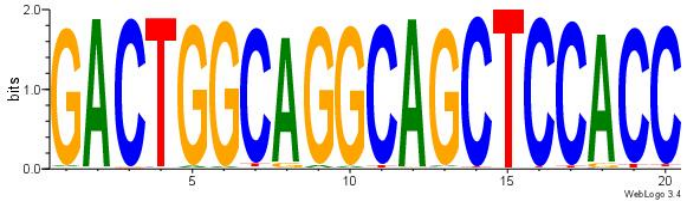

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

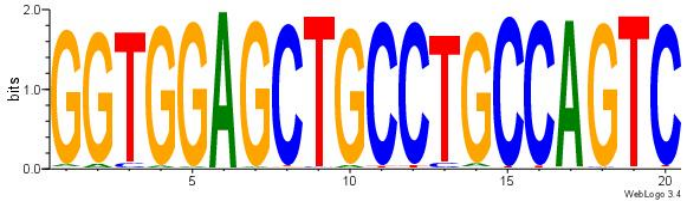

Dataset #:	1

Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.106772

Alignment:

```
CAGGCGGCTGGGAG
GCAGGAGGTGAG--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

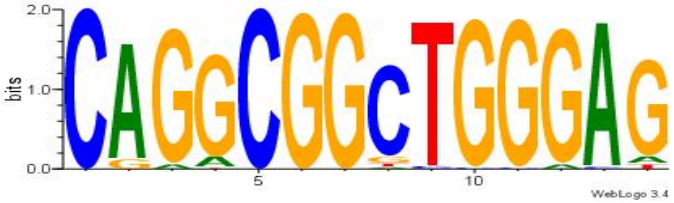

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

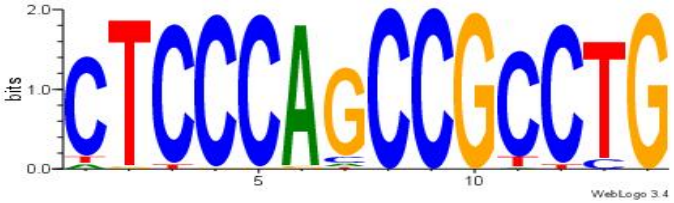

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.106814

Alignment:
AGGAACAGCTCCRGTCTAC
---CTCACCTCCTGC----

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

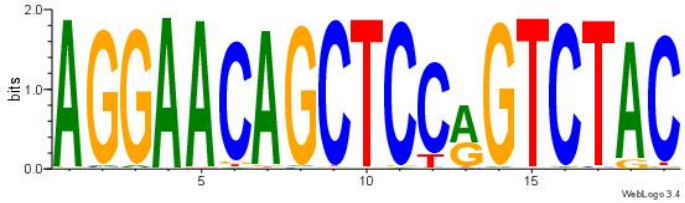

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

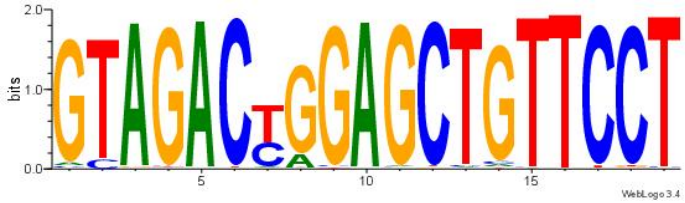

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.106839

Alignment:
ACAGGCTTTGTGTGAGCA
--GCAGGAGGTGAG----

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

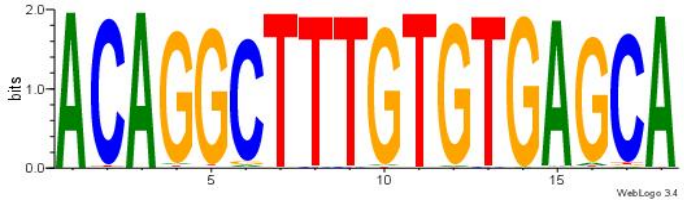

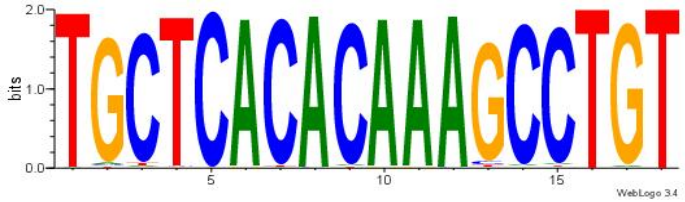

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.106866

Alignment:

```
CCCAAATCCTATAAAA
CTCACCTCCTGC----
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

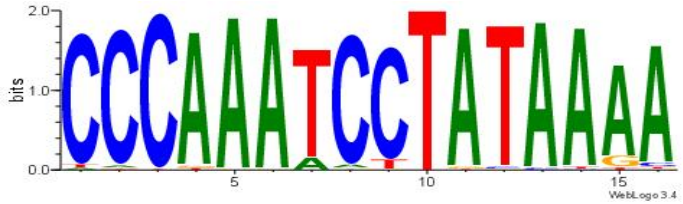

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

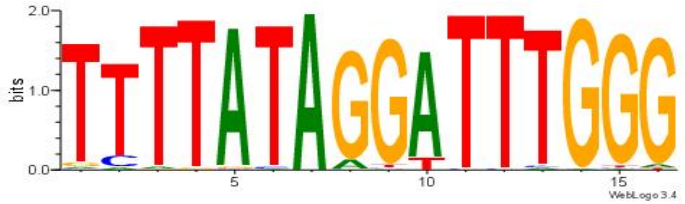

Dataset #: 1

Motif ID:	42
Motif name:	Motif 42
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.107368

Alignment:

```
GCGGCCGGGCAGAG
GCAGGAGGTGAG--
```

Original motif Consensus sequence: CTCTGCCCGGCCGC

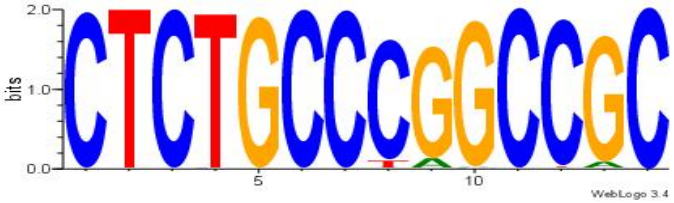

Reverse complement motif Consensus sequence: GCGGCCGGGCAGA

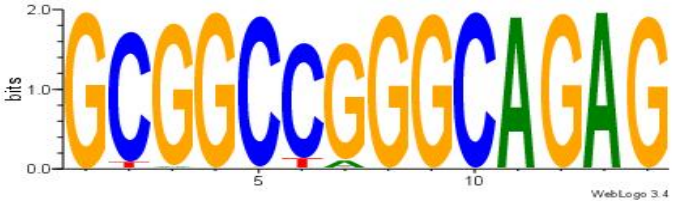

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.107546

Alignment:
AAAGCTGGAGCTATTATCTA
---GCAGGAGGTGAG-----

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

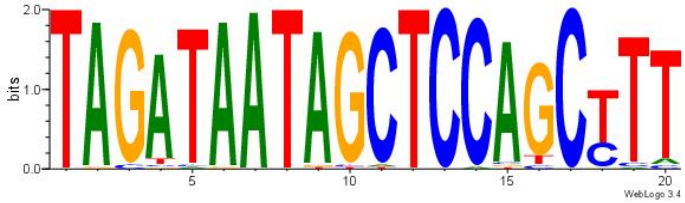

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

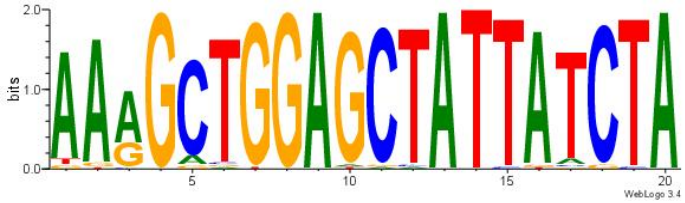

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.107855

Alignment:
AAGCAGGGCGAGGCATTGCC
------GCAGGAGGTGAG--

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

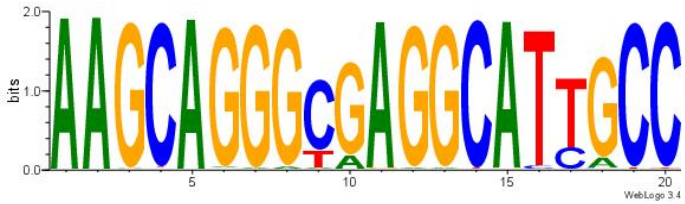

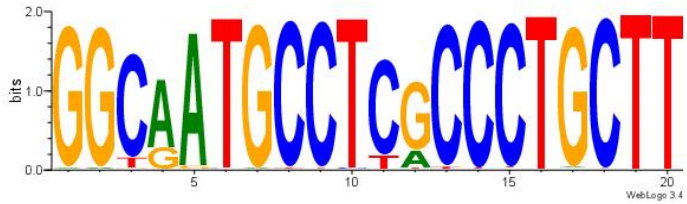

Dataset #: 1 Motif ID: 340 Motif name: Motif 340

Original motif Consensus sequence: GACCCAGAGAGC

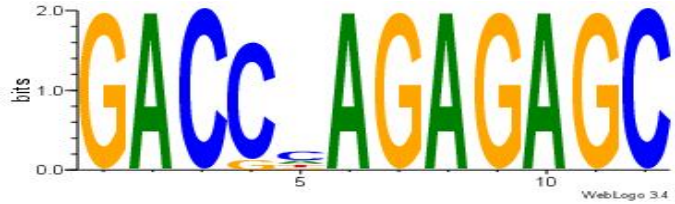

Reverse complement motif Consensus sequence: GCTCTCTGGGTC

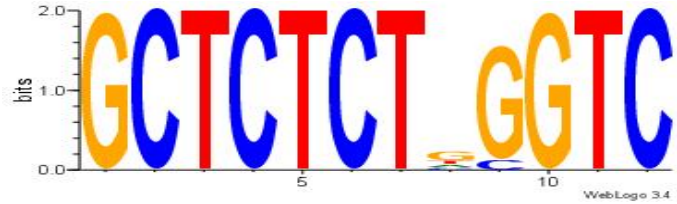

Best Matches for Motif ID 340 (Highest to Lowest)

Dataset #:	1
Motif ID:	302
Motif name:	Motif 302
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0285197

Alignment:

```
GACCCTGAGAGC
GACCCAGAGAGC
```

Original motif Consensus sequence: GACCCTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAGGGTC

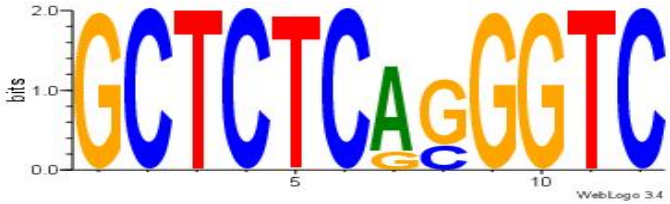

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0566001

Alignment:

```
GCTCTGAAGGTCC
GCTCTCTGGGTC-
```

Original motif Consensus sequence: GCTCTGAAGGTCC

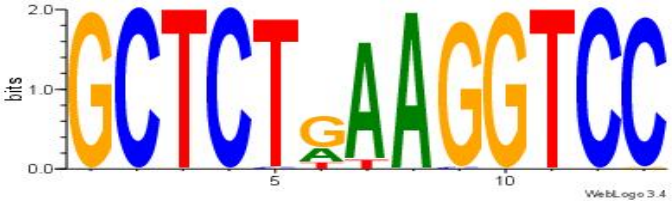

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

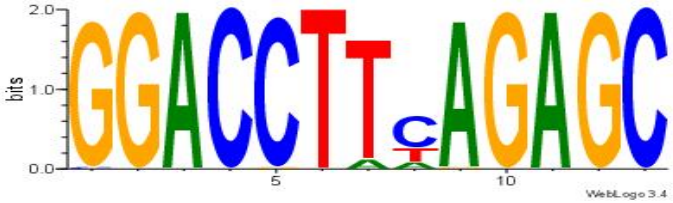

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0723494

Alignment:

```
AGCTAGAYACAGAGTGC
-----GACCCAGAGAGC
```

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

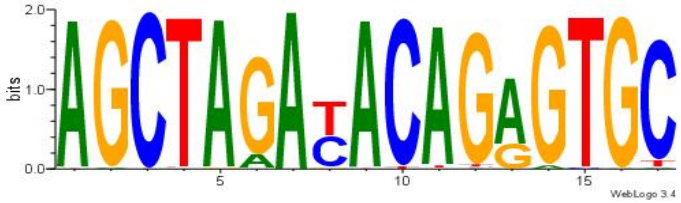

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

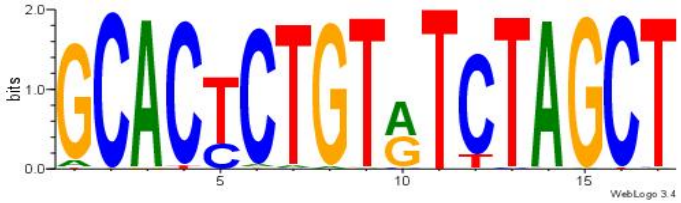

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 12
Similarity score: 0.0776328

Alignment:
TGGACCTGAGAGC
GACCCAGAGAGC-

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

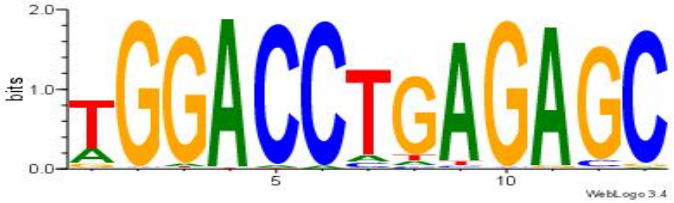

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0825042

Alignment:
GATCACGAGGTCAGGAG
-----GCTCTCTGGGTC

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

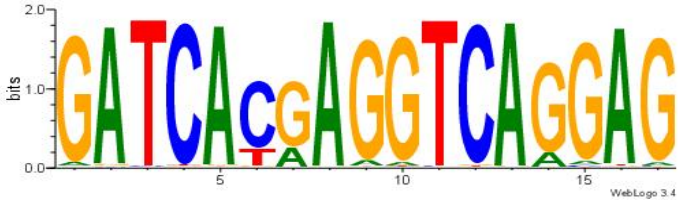

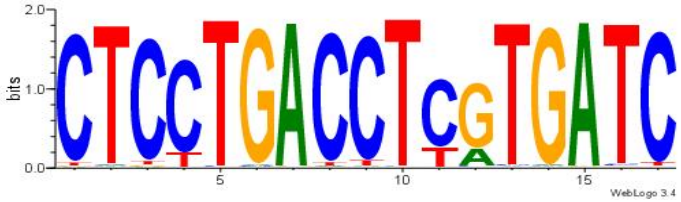

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0836911

Alignment:

```
AATGACCAATTGAGAGC
---GACCCAGAGAGC--
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

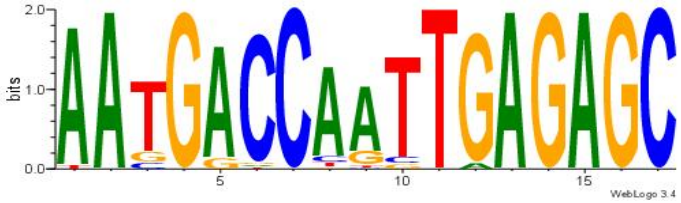

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

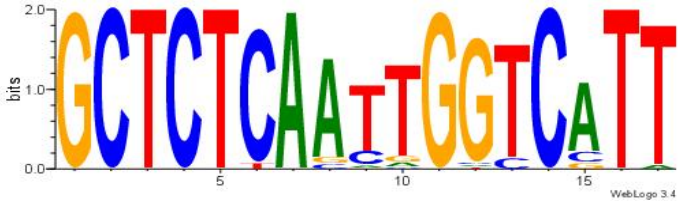

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0854496

Alignment:

```
TCTCTCTCTCTCTCTCTCTC
------GCTCTCTGGGTC--
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

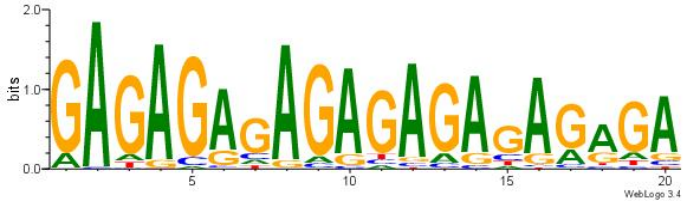

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

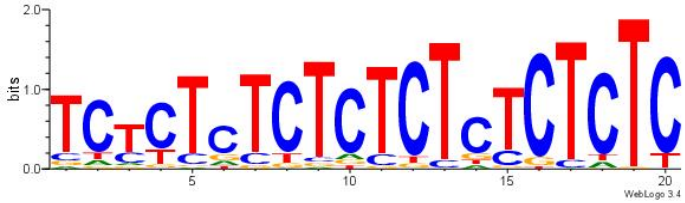

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.0862651

Alignment:
AGGACTGAGGGTGCCYRGGG
--GACCCAGAGAGC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

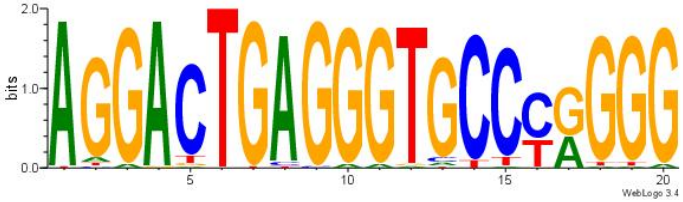

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

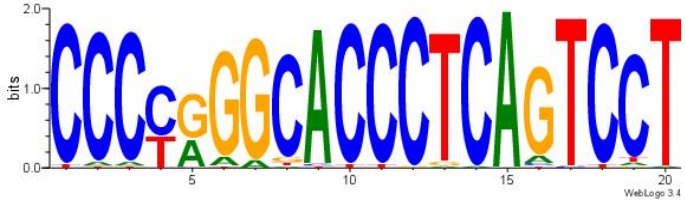

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 12
Similarity score: 0.0878275

Alignment:
AAAGTGCCGAGAKTGCAGC
----GACCCAGAGAGC---

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

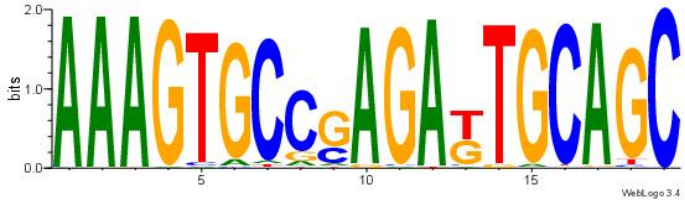

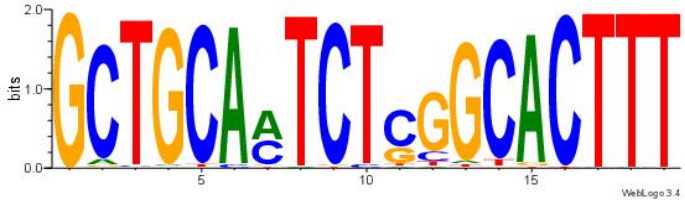

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0888366

Alignment:

```
TTMGTCCCAGAGGGGCACC
----GACCCAGAGAGC---
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

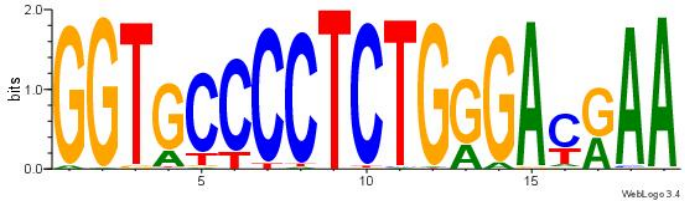

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

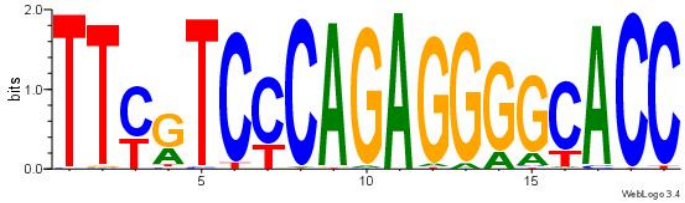

Dataset #:	1

Motif ID:	182
Motif name:	Motif 182
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0893275

Alignment:

```
GACCAMGAACCCA
GACCCAGAGAGC-
```

Original motif Consensus sequence: GACCAMGAACCCA

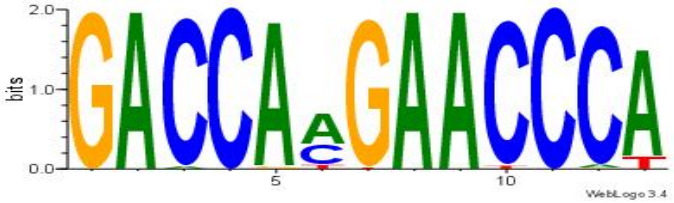

Reverse complement motif Consensus sequence: TGGGTTCYTGGTC

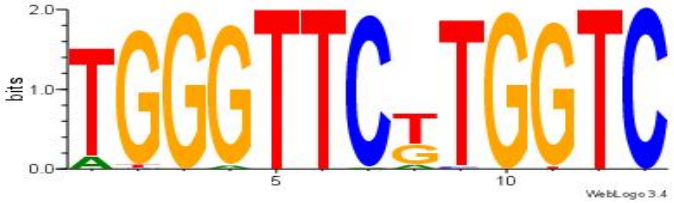

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0917175

Alignment:
GCCRGCCCTGCYGGCC
GCTCTCTGGGTC----

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

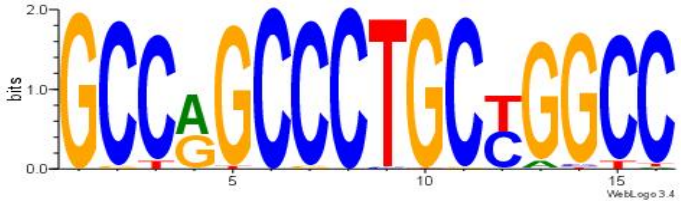

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

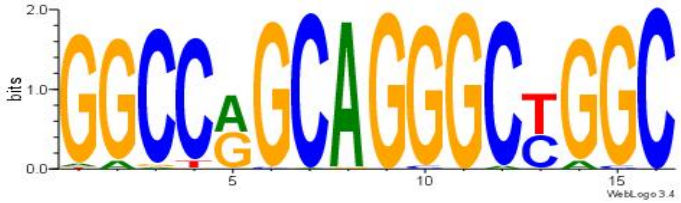

Dataset #:	1
Motif ID:	107
Motif name:	Motif 107
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0925679

Alignment:
GGMGCKGTGGCTC
-GCTCTCTGGGTC

Original motif Consensus sequence: GAGCCACYGCRCC

Reverse complement motif Consensus sequence: GGMGCKGTGGCT

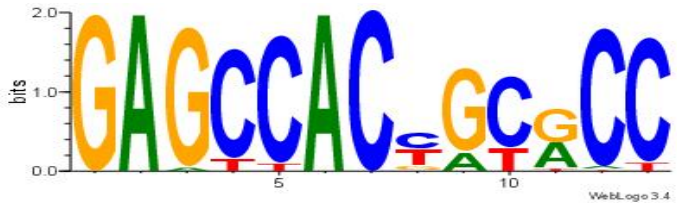

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0928596

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
------GCTCTCTGGGTC--
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

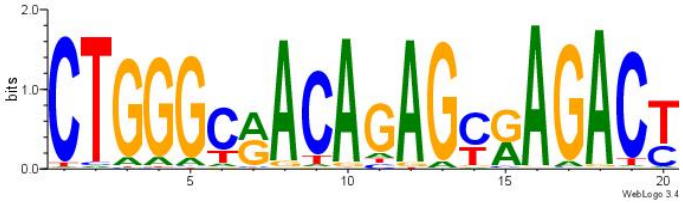

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

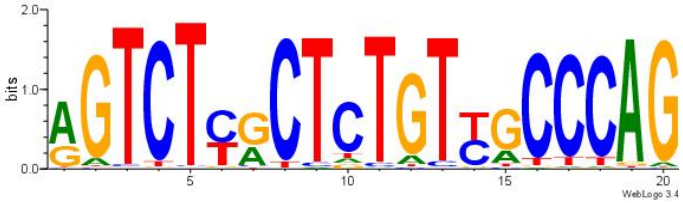

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0937598

Alignment:

```
ACTCCCTAGTGAGATGAACC
------GACCCAGAGAGC--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

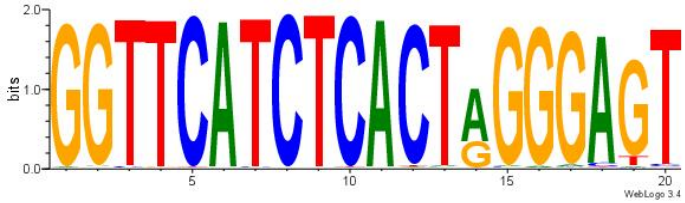

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

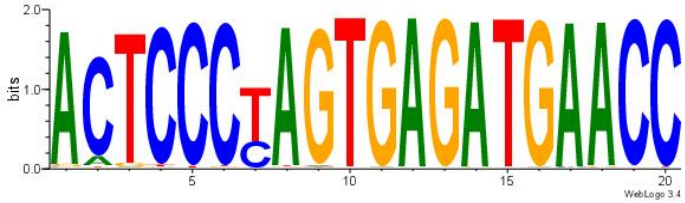

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.0943053

Alignment:
GGGCTCCCACAGTGCAGCGG
-----GACCCAGAGAGC---

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

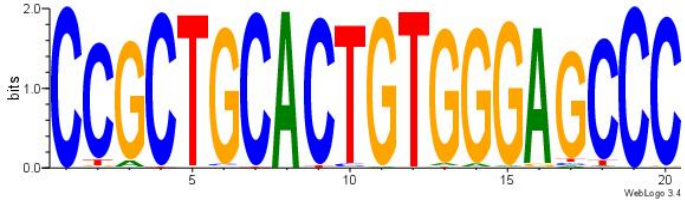

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

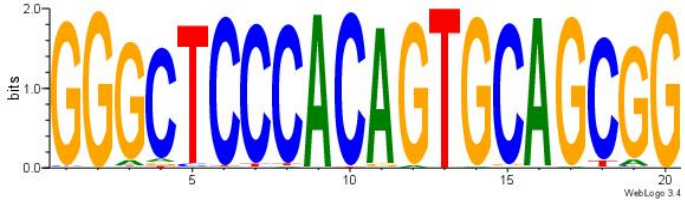

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0950269

Alignment:
TGHCCTGCKCCCACTGTCT
------GCTCTCTGGGTC-

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

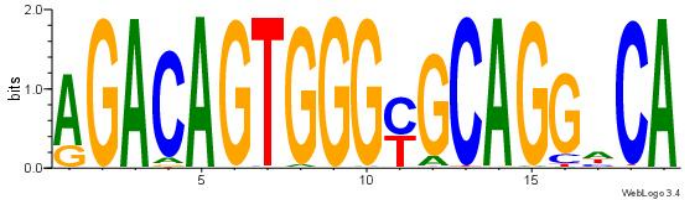

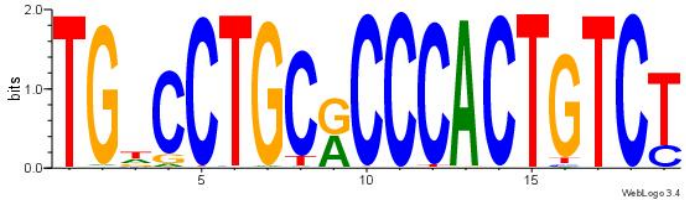

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0966618

Alignment:

```
CTTGGGTGGTCGATGGGAC
-------GCTCTCTGGGTC
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

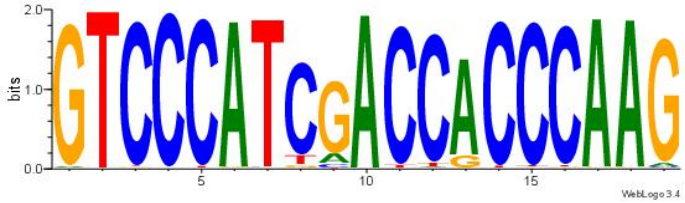

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

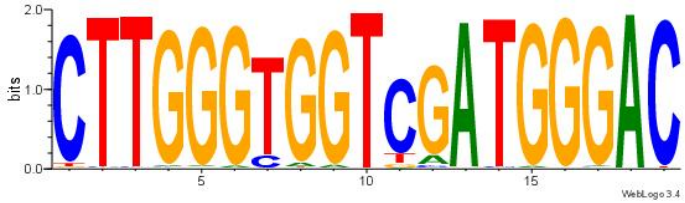

Dataset #: 1

Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.0974551

Alignment:

```
MCCYGGCWSMGASGSTCCT
-----GCTCTCTGGGTC--
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

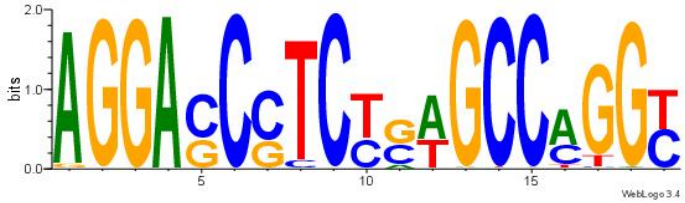

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

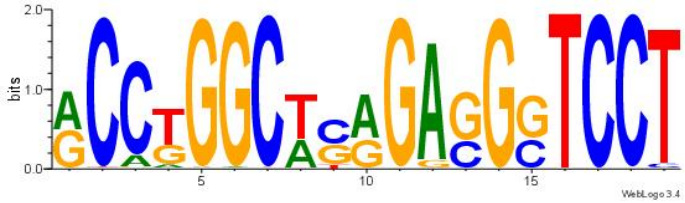

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12

Similarity score: 0.0981883

Alignment:
MGGGATATAATCTCCTGGTG
--------GCTCTCTGGGTC

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

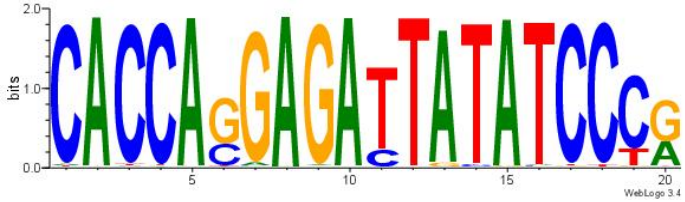

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

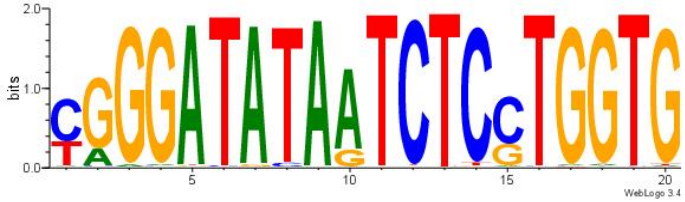

Dataset #: 1
Motif ID: 283
Motif name: Motif 283
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 12
Similarity score: 0.0983099

Alignment:
GGATGGTGAGGGC
GACCCAGAGAGC-

Original motif Consensus sequence: GCCCTCACCATCC

Reverse complement motif Consensus sequence: GGATGGTGAGGG

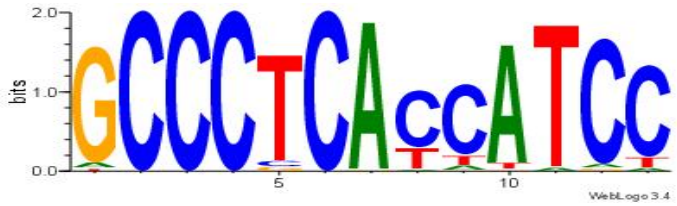

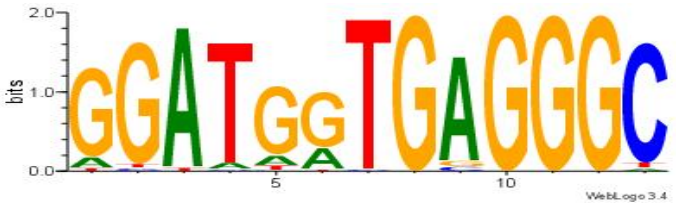

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.098553

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-GACCCAGAGAGC-------
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

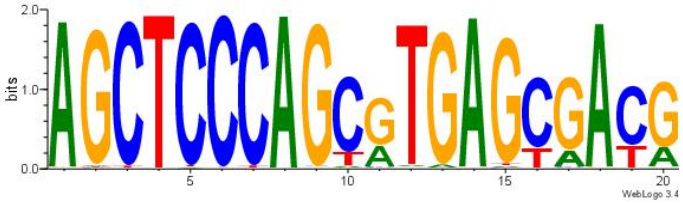

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

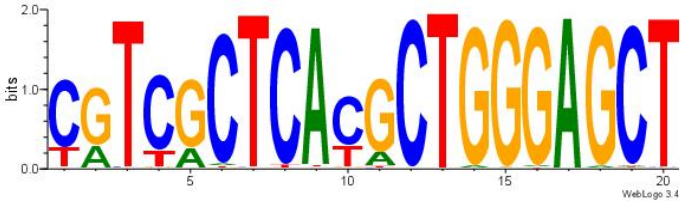

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.0992686

Alignment:

```
AGAGCTCTGGCTGGCATCT
-GCTCTCTGGGTC------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

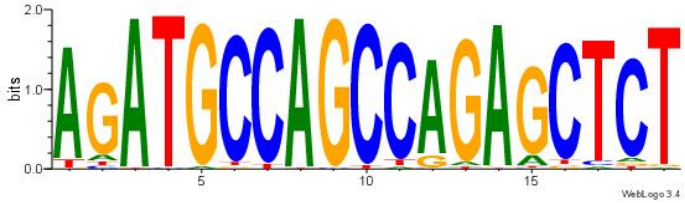

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

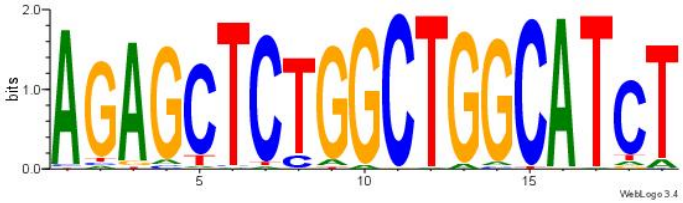

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12

Similarity score: 0.0998015

Alignment:
ATGATCCAGCAATYCCACTH
--GACCCAGAGAGC------

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

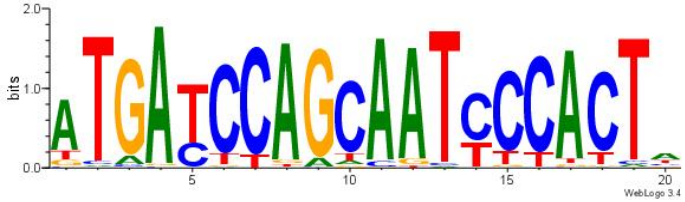

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

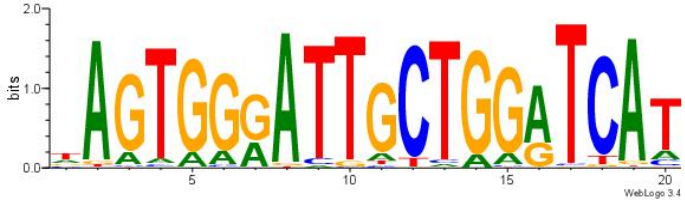

Dataset #: 1
Motif ID: 33
Motif name: Motif 33
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.100268

Alignment:
ACGCCCACGGAGTCTC
--GCTCTCTGGGTC--

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence: GAGACTCCGTGGGCGT

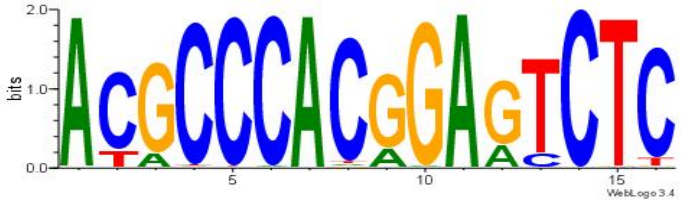

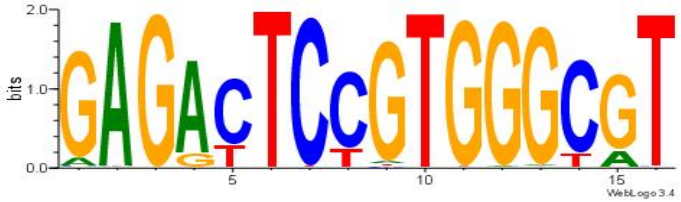

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.100672

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
-GACCCAGAGAGC-------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

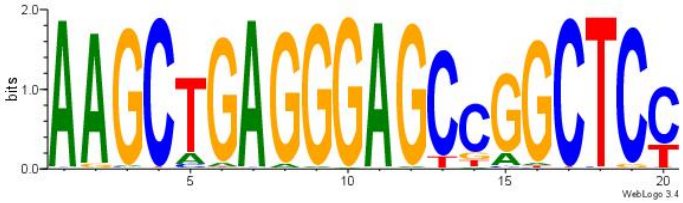

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

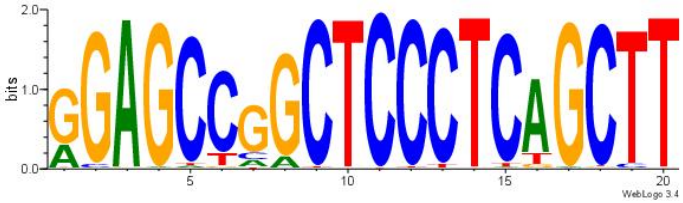

Dataset #:	1

Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.100972

Alignment:

```
GCACTGAGTGAACGA
-GACCCAGAGAGC--
```

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

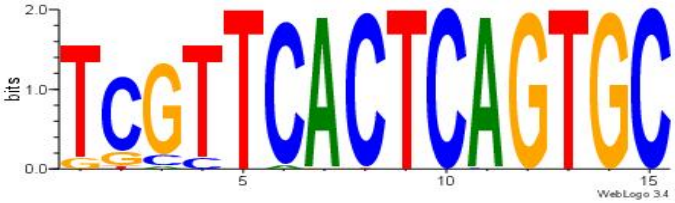

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.10163

Alignment:
TCACKMGGGAAGCGCAAG
-----GACCCAGAGAGC-

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

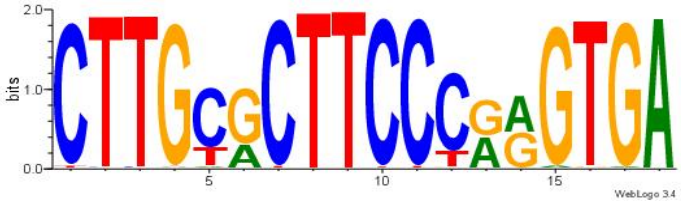

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

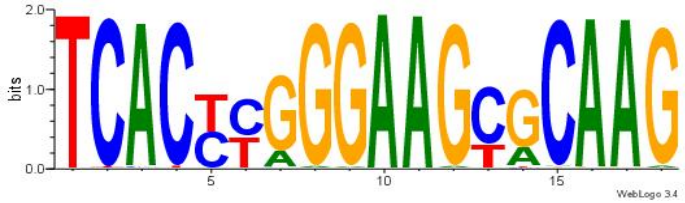

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.101862

Alignment:
CGGCGCTGMGCTCGATTTCT
-------GCTCTCTGGGTC-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

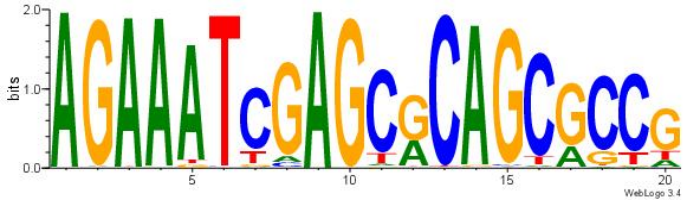

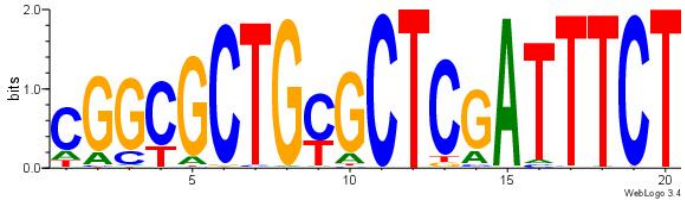

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.102744

Alignment:

```
KGCAACCTAGATCCCT
-GCTCTCTGGGTC---
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

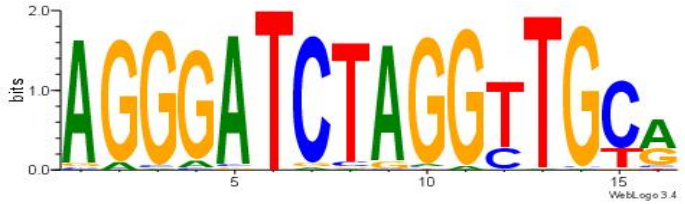

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

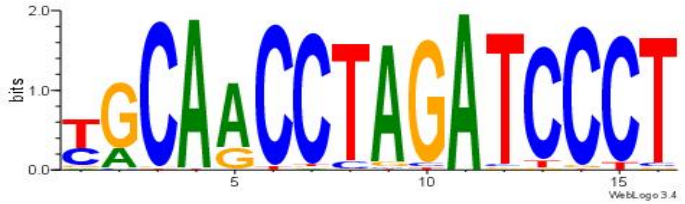

Dataset #: 1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.103528

Alignment:

```
GACCTGCAGCCCGCCATG
------GACCCAGAGAGC
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

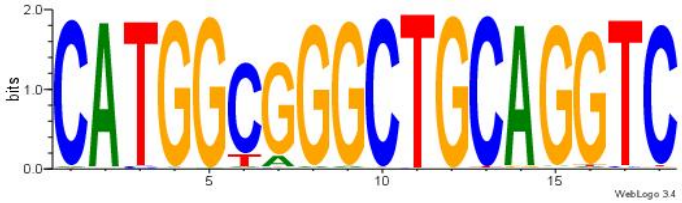

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

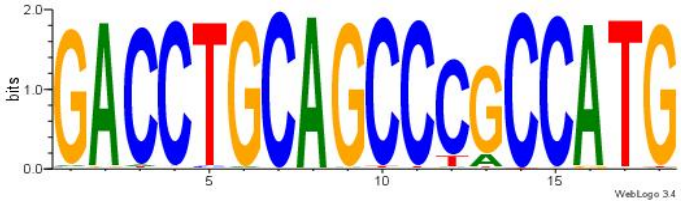

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12

Similarity score: 0.103577

Alignment:
GCCKGGMKCMGTGGCTCAKG
-----GCTCTCTGGGTC---

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

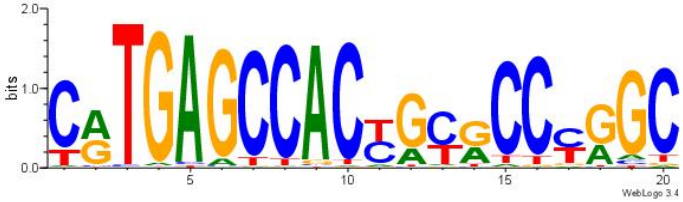

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

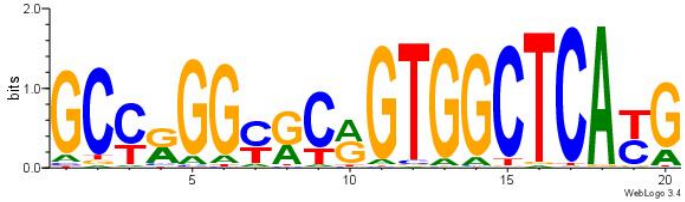

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.104381

Alignment:
GGGRSCACAGGAGCD
-GACCCAGAGAGC--

Original motif Consensus sequence: HGCTCCTGTGSKCCC

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

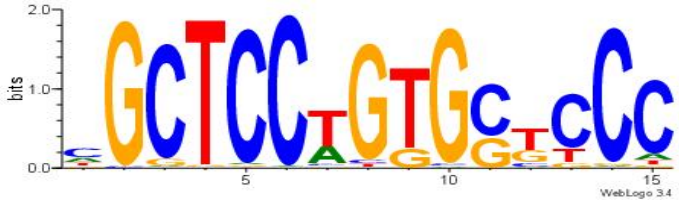

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.106223

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GACCCAGAGAGC--------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

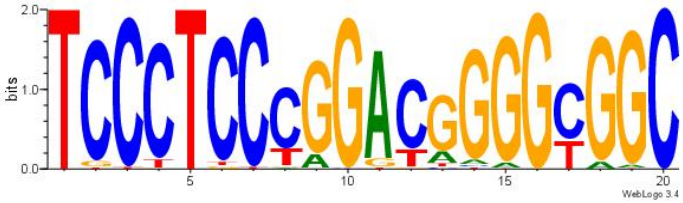

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

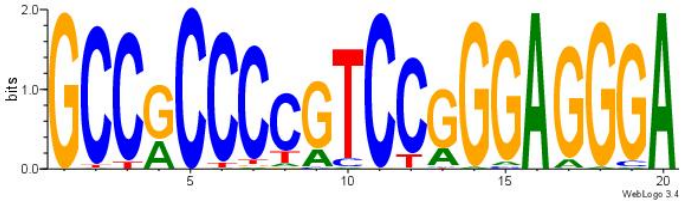

Dataset #:	1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.106927

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
----GCTCTCTGGGTC----
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

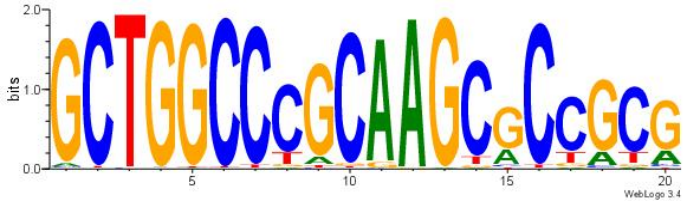

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

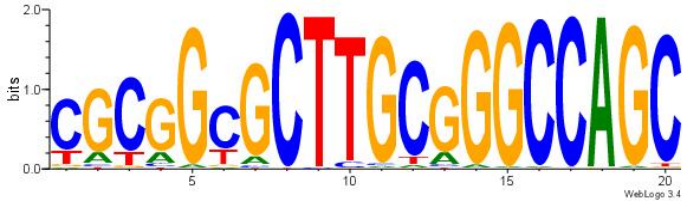

Dataset #:	1
Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.10695

Alignment:
ACCCYGTCTGGGAGGTG
---GCTCTCTGGGTC--

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

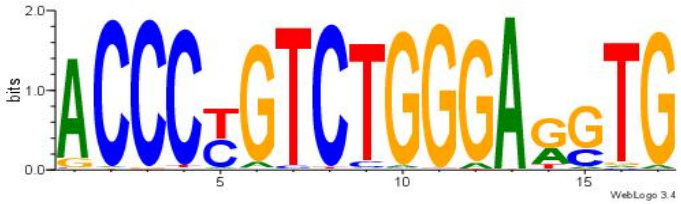

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

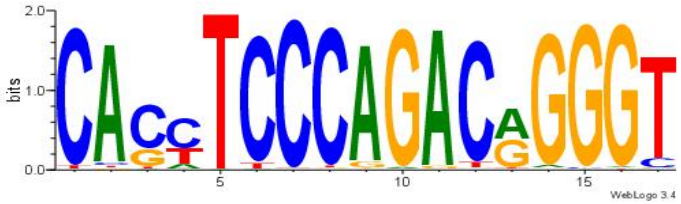

Dataset #: 1
Motif ID: 258
Motif name: Motif 258
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.107094

Alignment:
CCACCAACAGTGTAY
-GACCCAGAGAGC--

Original motif Consensus sequence: CCACCAACAGTGTAY

Reverse complement motif Consensus sequence: MTACACTGTTGGT

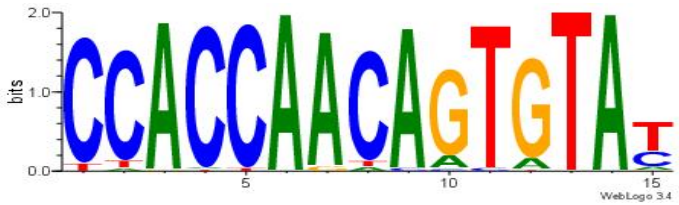

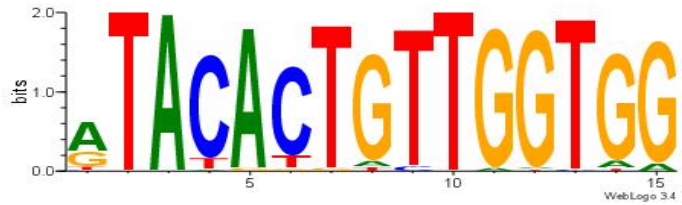

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.108925

Alignment:

```
TCTCTGAGCCTCAGTT
----GCTCTCTGGGTC
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

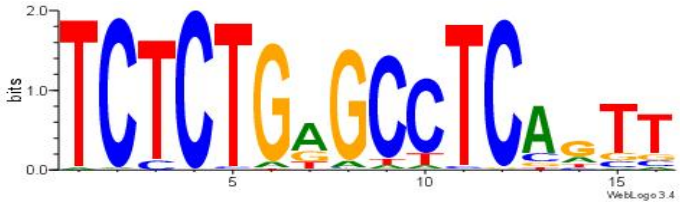

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

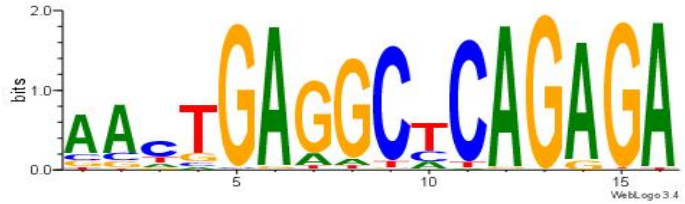

Dataset #:	1

Motif ID:	125
Motif name:	Motif 125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.109741

Alignment:

```
CGCCCGGCCAGCCGC
GACCCAGAGAGC---
```

Original motif Consensus sequence: CGCCCGGCCAGCCGC

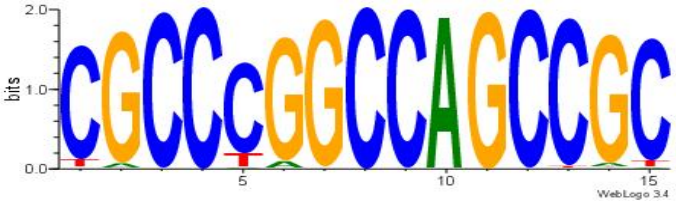

Reverse complement motif Consensus sequence: GCGGCTGGCCGGGCG

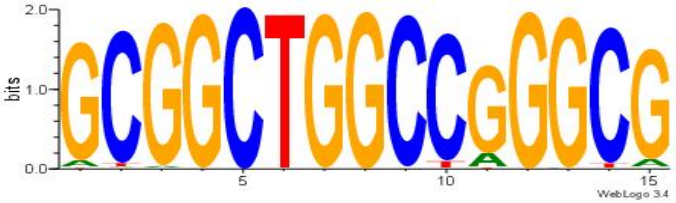

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12

Similarity score: 0.109813

Alignment:
ARCTCCTGKSCTCAAGKGAT
-GCTCTCTGGGTC-------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

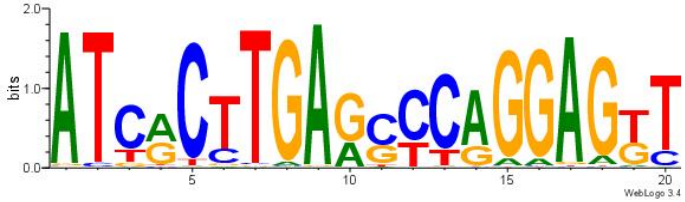

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

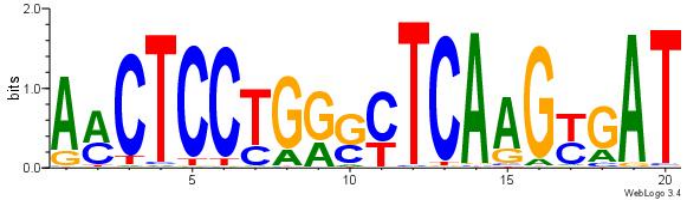

Dataset #: 1
Motif ID: 247
Motif name: Motif 247
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.110644

Alignment:
GKGGCAGTGAGGC
-GACCCAGAGAGC

Original motif Consensus sequence: GCCTCACTGCCRC

Reverse complement motif Consensus sequence: GKGGCAGTGAGG

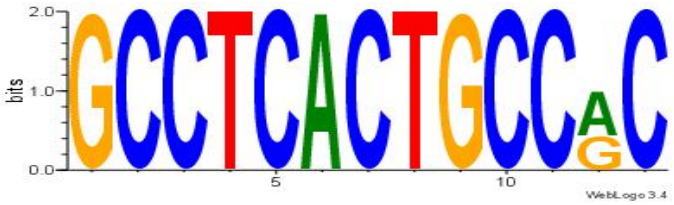

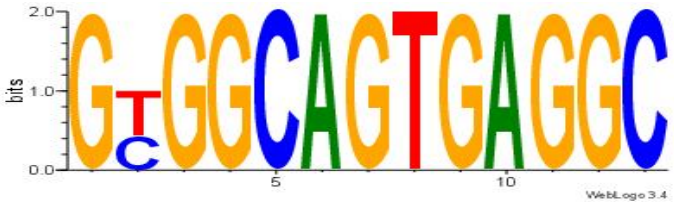

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.110819

Alignment:

```
CTGGCCCTCAATGGTTAAAC
---GCTCTCTGGGTC-----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

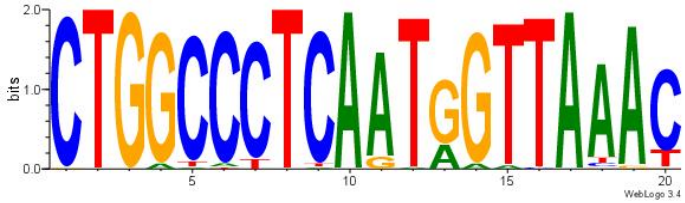

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

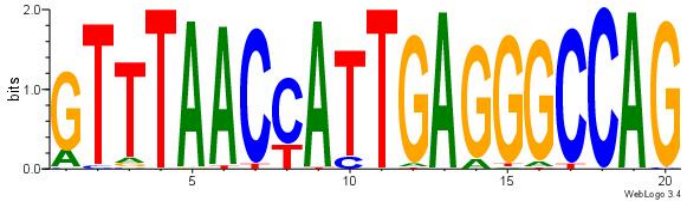

Dataset #: 1

Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.11094

Alignment:

```
GCTCACTGCAASCTC
---GCTCTCTGGGTC
```

Original motif Consensus sequence: GCTCACTGCAASCTC

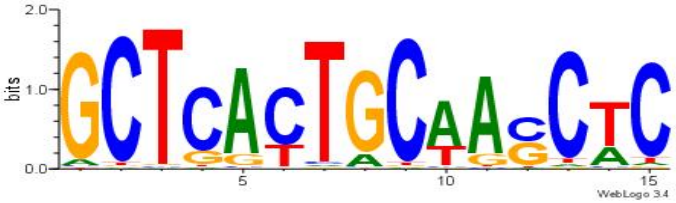

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

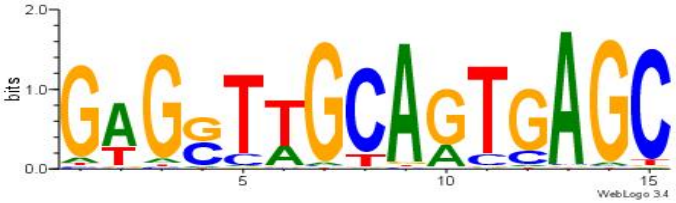

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.11101

Alignment:
TGGCTTCACCCAGTGGATCC
--GACCCAGAGAGC------

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

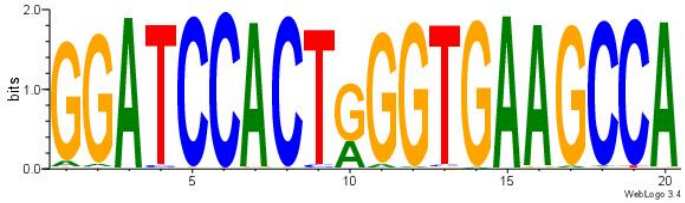

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

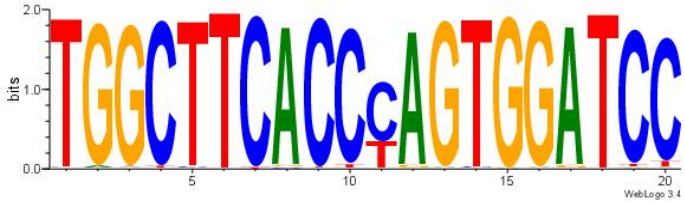

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.111379

Alignment:
AACAACASACACTGGGGCCT
------GCTCTCTGGGTC--

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence:
AACAACASACACTGGGGCCT

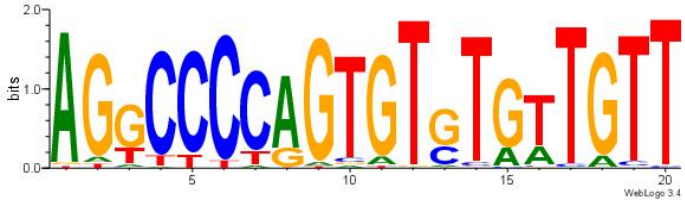

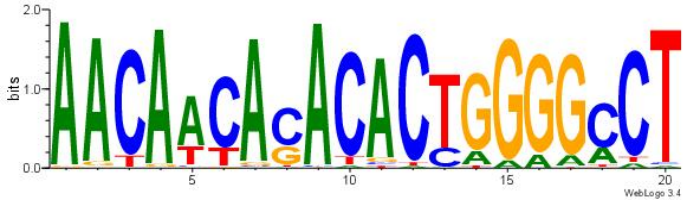

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.111632

Alignment:

```
CCACCACAGCTCAAGGAGGC
GCTCTCTGGGTC--------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

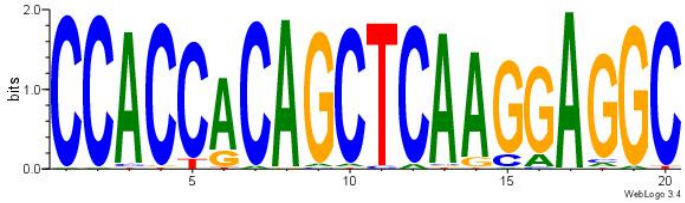

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

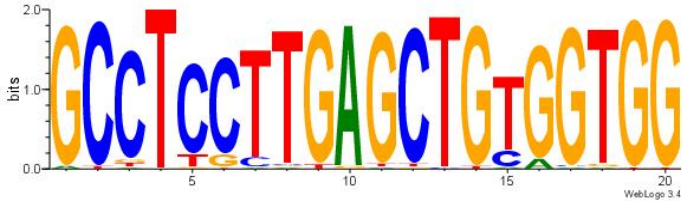

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.111886

Alignment:

```
GGGAGGTGTCTCCCAGTCAG
------GCTCTCTGGGTC--
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

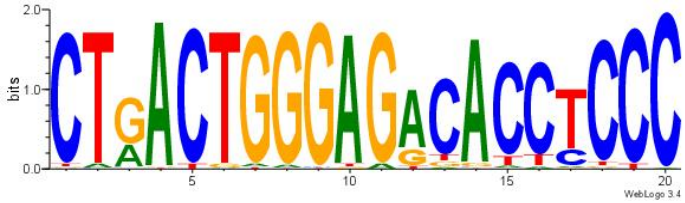

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

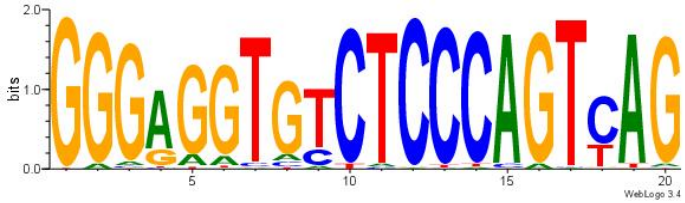

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.112587

Alignment:
ATAAAAACTTGCTGGTTTT
------GCTCTCTGGGTC-

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

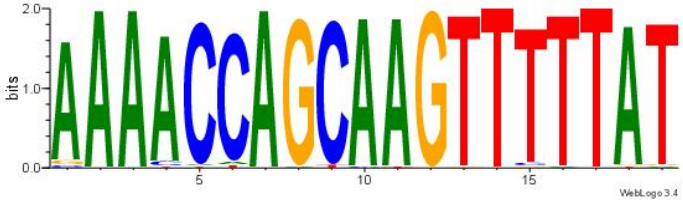

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

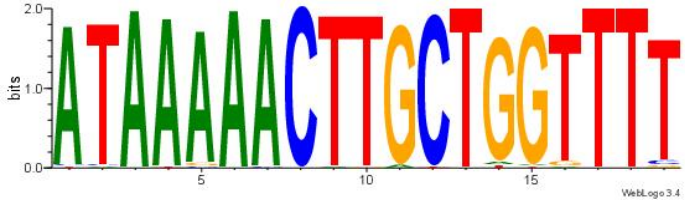

Dataset #: 1
Motif ID: 206
Motif name: Motif 206
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 12
Similarity score: 0.112693

Alignment:
GGRCKCACWGGAGC
--GCTCTCTGGGTC

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

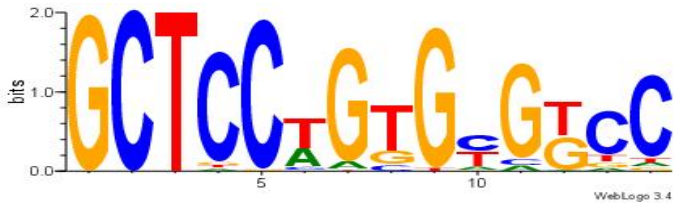

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.11287

Alignment:

```
CACCAGACTCAGGAGCCCAG
---GACCCAGAGAGC-----
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

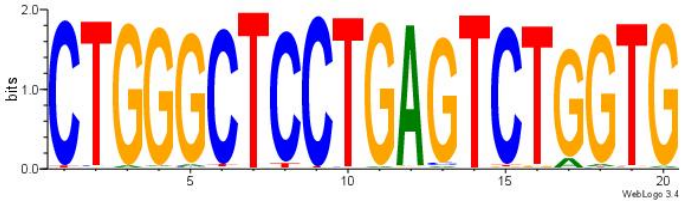

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

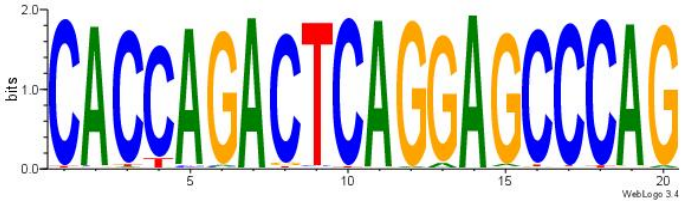

Dataset #: 1 Motif ID: 341 Motif name: Motif 341

Original motif Consensus sequence: ATCCATCCATCCATCCA

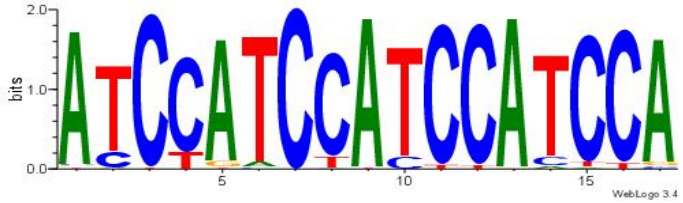

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Best Matches for Motif ID 341 (Highest to Lowest)

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0809092

Alignment:

```
HAGTGGKATTGCTGGATCAT
TGGATGGATGGATGGAT---
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

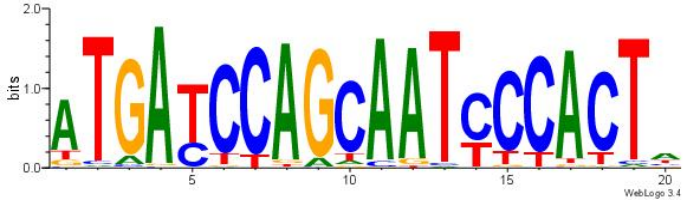

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

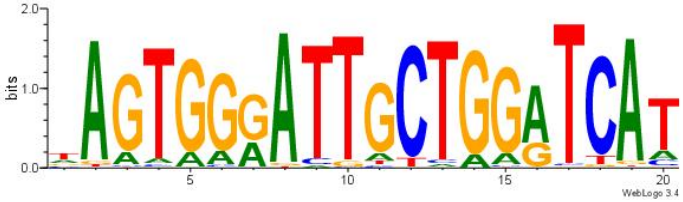

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0940608

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-ATCCATCCATCCATCCA--
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

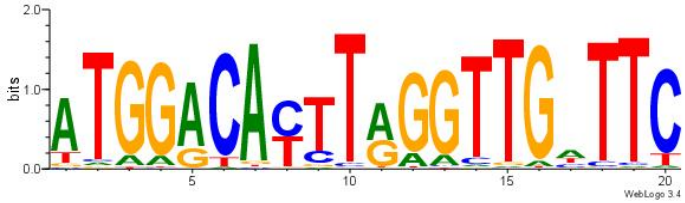

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

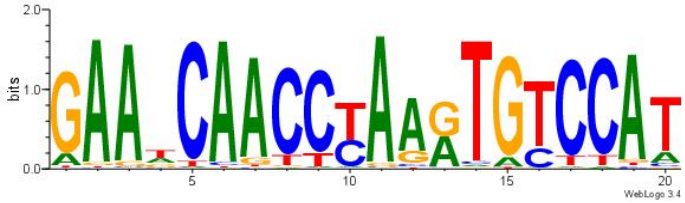

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

Position number:	3
Number of overlap:	17
Similarity score:	0.0958074

Alignment:
GTCCCATCGACCACCCAAG
ATCCATCCATCCATCCA--

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

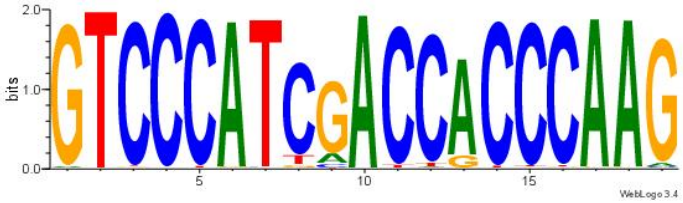

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

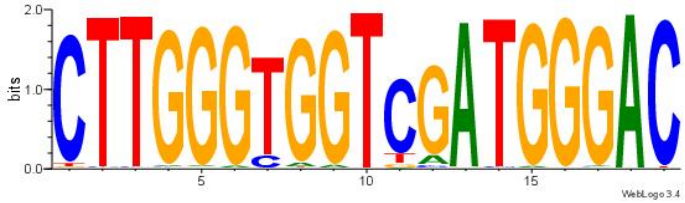

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.100906

Alignment:
ACACACAYACACACACACA
--ATCCATCCATCCATCCA

Original motif Consensus sequence: ACACACAYACACACACACA

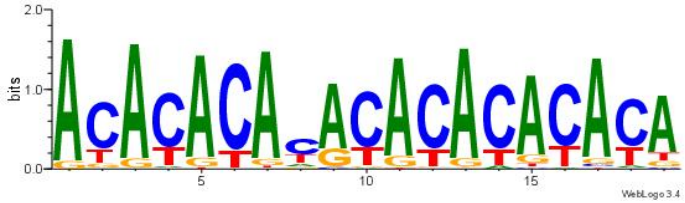

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

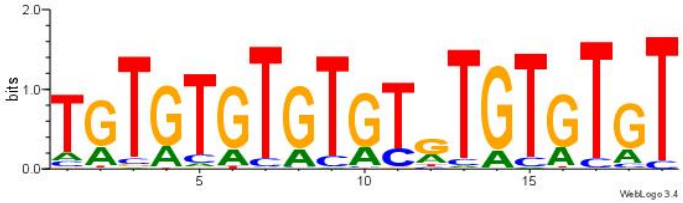

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.101118

Alignment:

```
GCCTCTCCCTCCACACCTCC
ATCCATCCATCCATCCA---
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

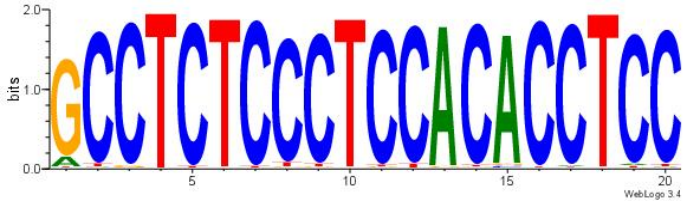

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

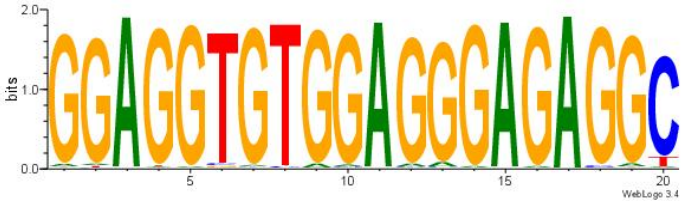

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.106007

Alignment:

```
AGGTTTGTTACATAGGTAWA
---TGGATGGATGGATGGAT
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

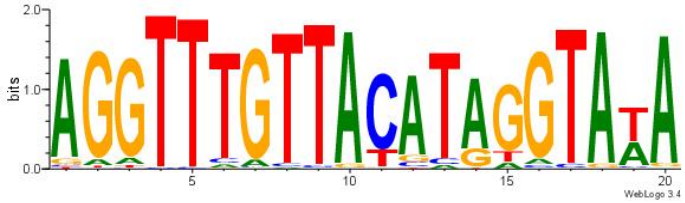

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

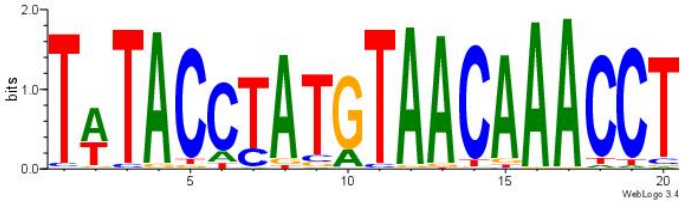

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 17
Similarity score: 0.110162

Alignment:
AATCAACCCTGGYRATCAAT
-ATCCATCCATCCATCCA--

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

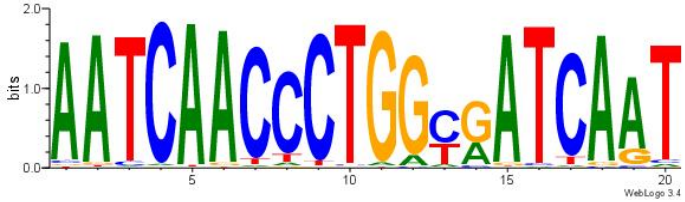

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

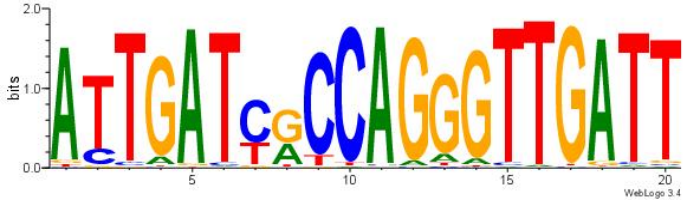

Dataset #: 1
Motif ID: 329
Motif name: Motif 329
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.110209

Alignment:
GGGAGGGATATATTAGC
TGGATGGATGGATGGAT

Original motif Consensus sequence: GGGAGGGATATATTAGC

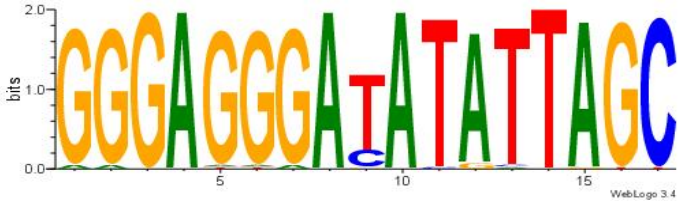

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

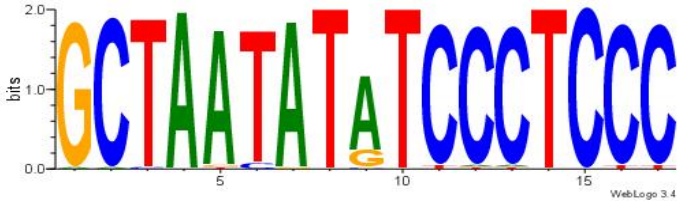

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.111816

Alignment:

```
GTTGTGAGGATTAAATGAG
--TGGATGGATGGATGGAT
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

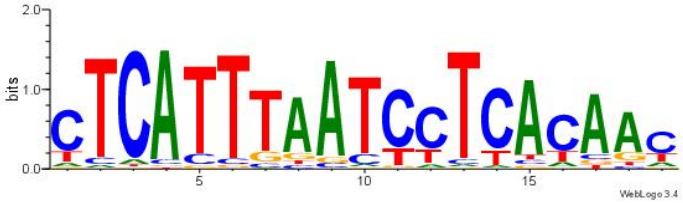

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

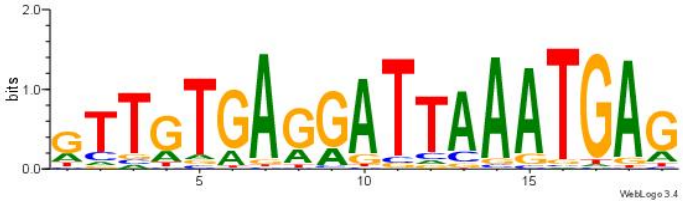

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.113291

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
---ATCCATCCATCCATCCA
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

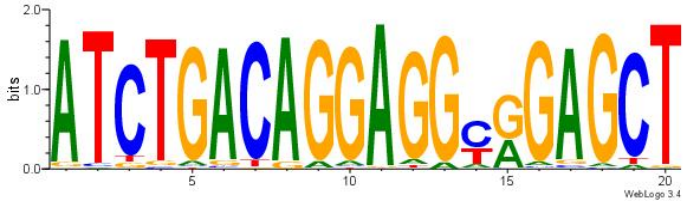

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

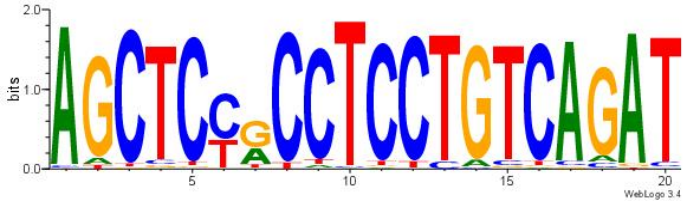

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 17
Similarity score: 0.113358

Alignment:
GGCATCACGGATCCTACCAA
--ATCCATCCATCCATCCA-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

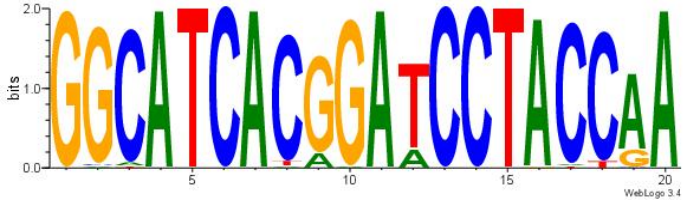

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

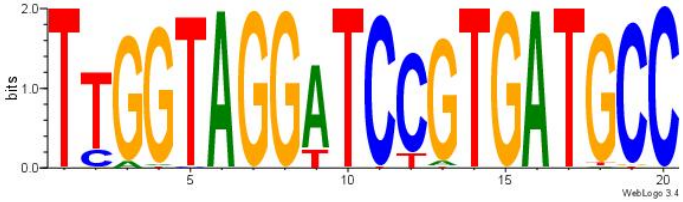

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.113741

Alignment:
ATGTAACCAAAYACCACCTG
ATCCATCCATCCATCCA---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

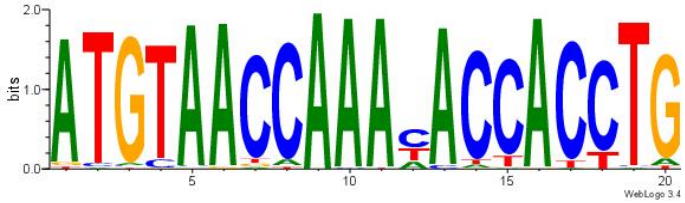

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

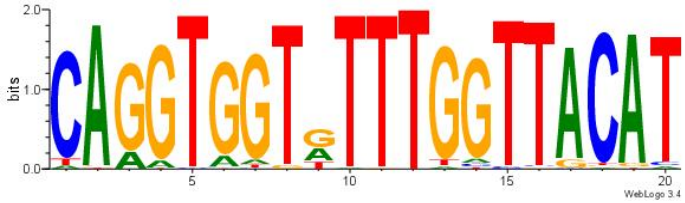

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.11496

Alignment:

```
GGGTGCAGGMGGGCTGAGT
--TGGATGGATGGATGGAT
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

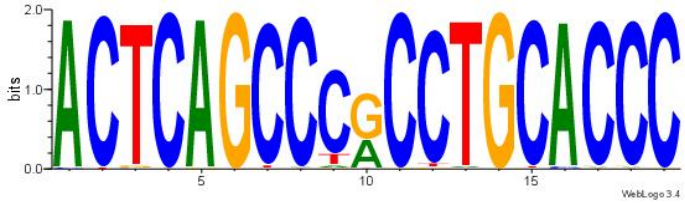

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

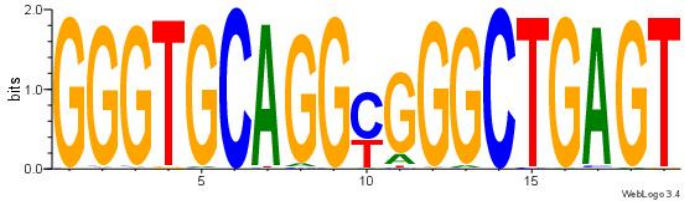

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.114978

Alignment:
KGGGCDGAGGGGCTCCT
TGGATGGATGGATGGAT

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

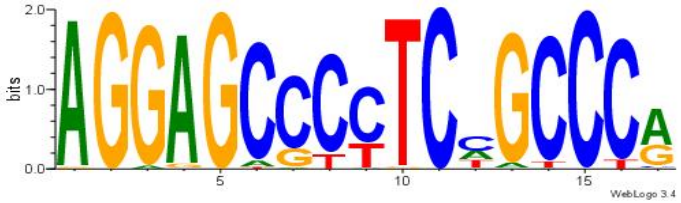

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.115876

Alignment:
CAACATGGATGRARCTGGAG
--TGGATGGATGGATGGAT-

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

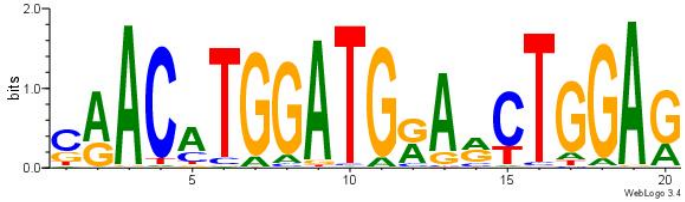

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

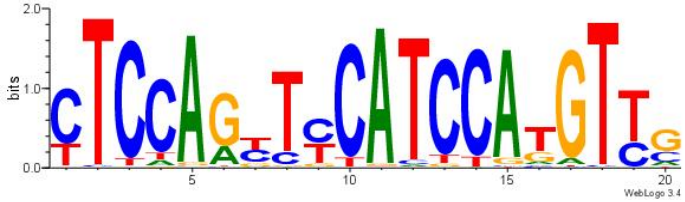

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 17
Similarity score: 0.117018

Alignment:
CAGCTACTCKTATACCCTTG
--ATCCATCCATCCATCCA-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

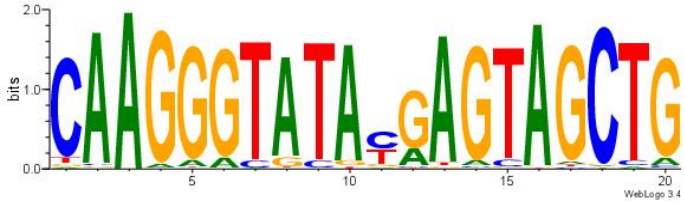

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

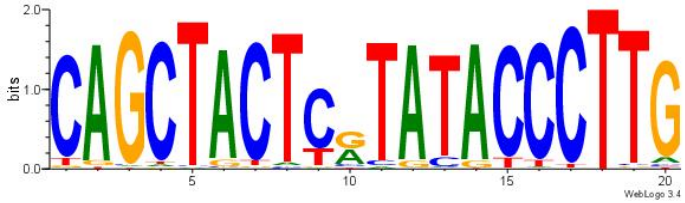

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.118856

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-TGGATGGATGGATGGAT--
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

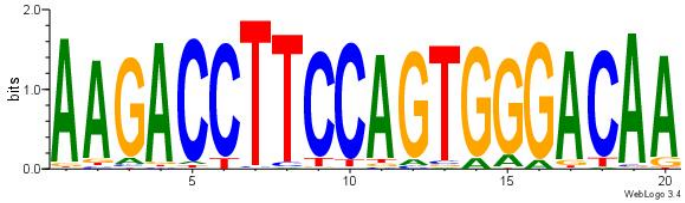

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

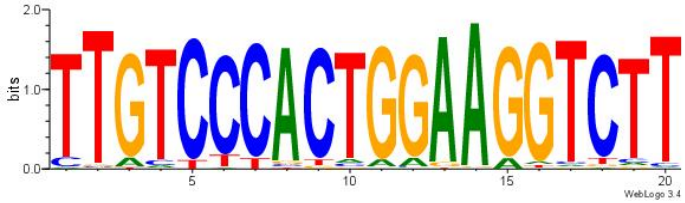

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.119473

Alignment:

```
ACTGTCTTCCACCTCCACAT
--ATCCATCCATCCATCCA-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

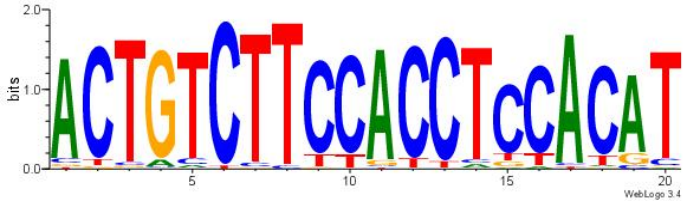

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

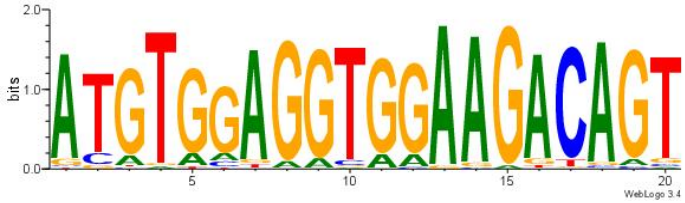

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.120076

Alignment:
CTGTTTGCCTGGGTATCA
-TGGATGGATGGATGGAT

Original motif Consensus sequence: TGATACCCAGGCAAACAG

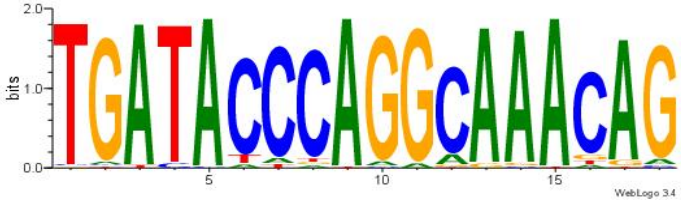

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

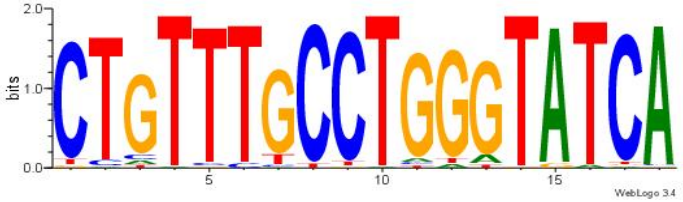

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 17
Similarity score: 0.120241

Alignment:
AGCCYCTGGYAACCAYYAWT
--ATCCATCCATCCATCCA-

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

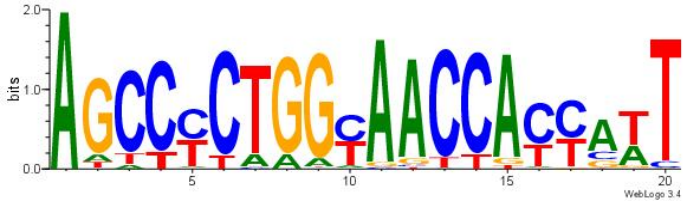

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

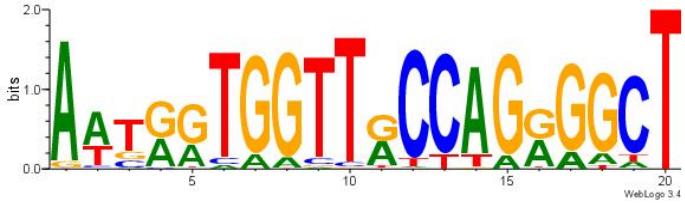

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.12038

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
---TGGATGGATGGATGGAT
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

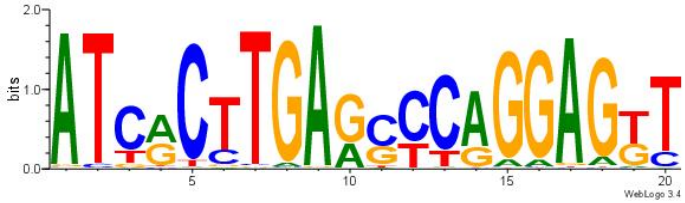

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

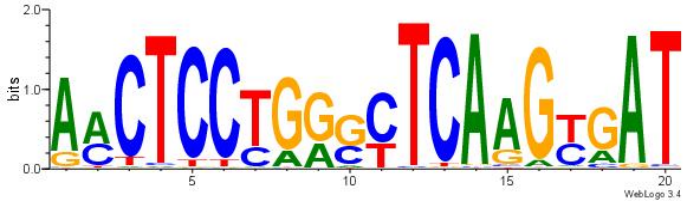

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.120603

Alignment:

```
ATACAATGGGGGTACAGRC
TGGATGGATGGATGGAT--
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

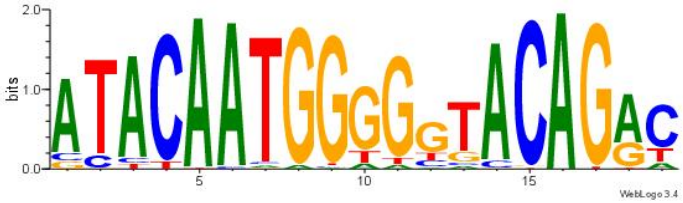

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

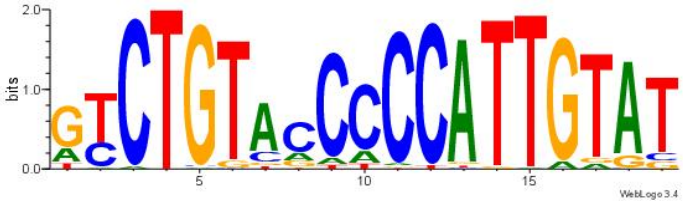

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.121412

Alignment:
GTTTAACCATTGAGGGCCAG
-TGGATGGATGGATGGAT--

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

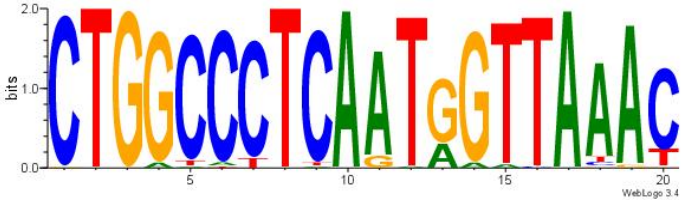

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

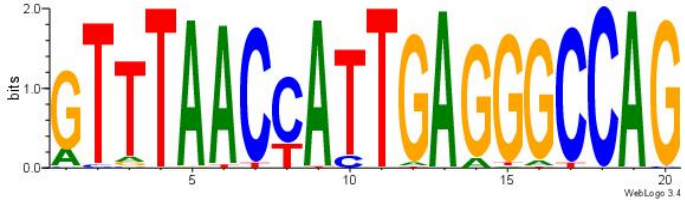

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.121475

Alignment:
GGGCTCCCACAGTGCAGCGG
ATCCATCCATCCATCCA---

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

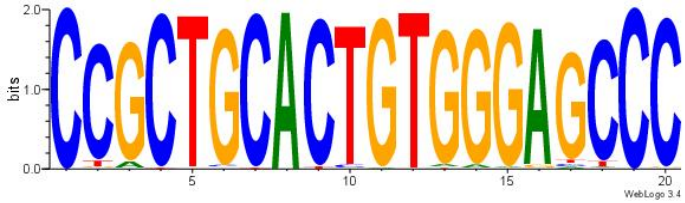

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

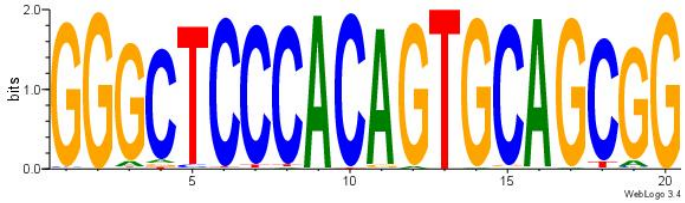

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.121687

Alignment:

```
AGTGACCCGATTTTCCAGGT
---ATCCATCCATCCATCCA
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

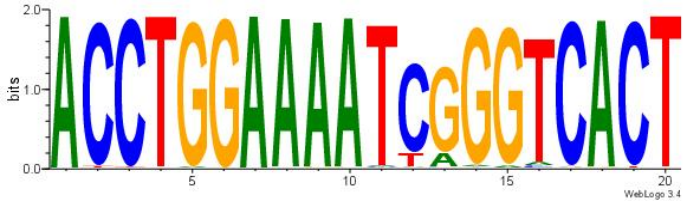

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

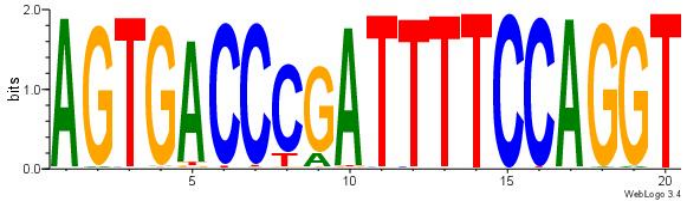

Dataset #:	1
Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.122788

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
---TGGATGGATGGATGGAT
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

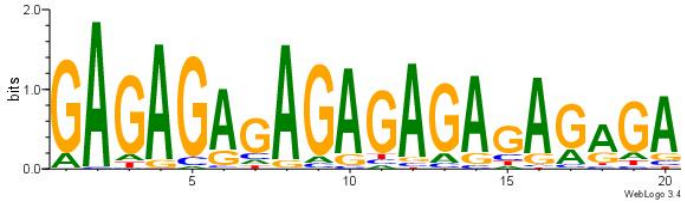

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

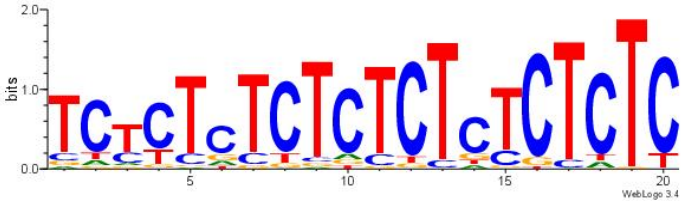

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 17
Similarity score: 0.122894

Alignment:
ATGGCTGAATAKTATTCCAT
-TGGATGGATGGATGGAT--

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

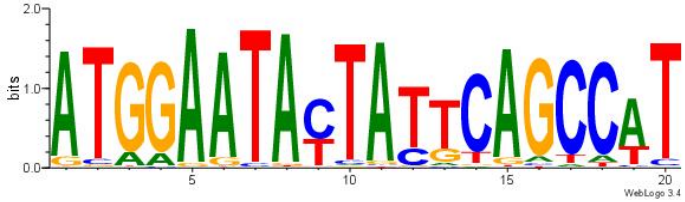

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

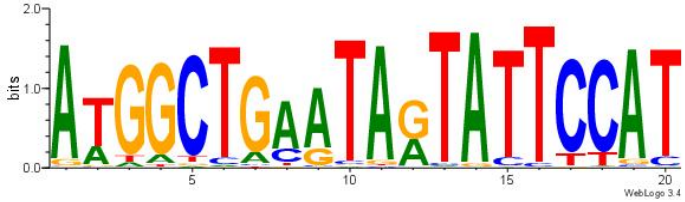

Dataset #: 1
Motif ID: 225
Motif name: Motif 225
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.123019

Alignment:
GCACATGTAYCCYAGAACTT
ATCCATCCATCCATCCA---

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

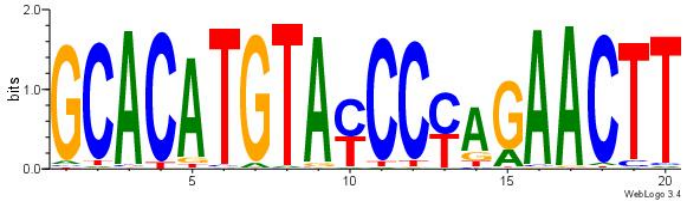

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

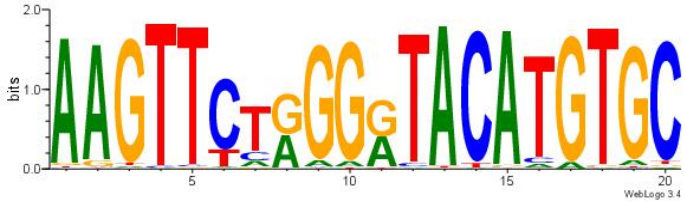

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.124424

Alignment:

```
ATCTCASAAATCACCACTA
ATCCATCCATCCATCCA--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

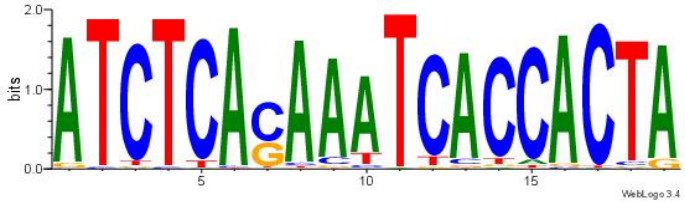

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

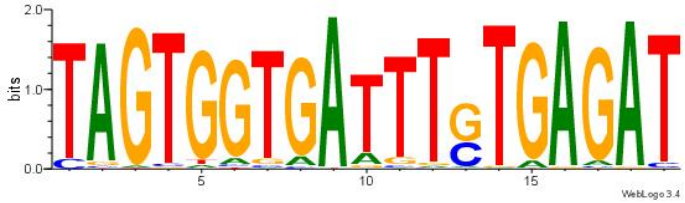

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.126478

Alignment:

```
AGGACTGAGGGTGCCYRGGG
---TGGATGGATGGATGGAT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

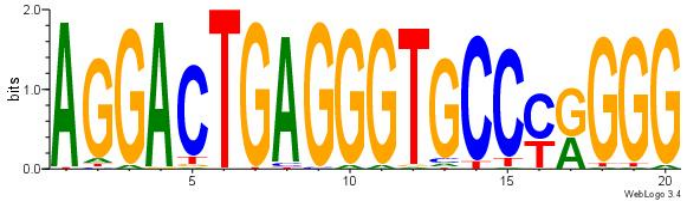

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

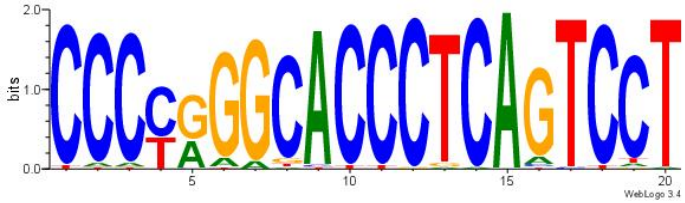

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 17
Similarity score: 0.126835

Alignment:
AGAGCCAAATCATGARTGAA
---ATCCATCCATCCATCCA

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

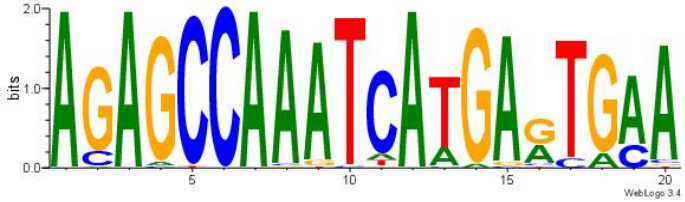

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

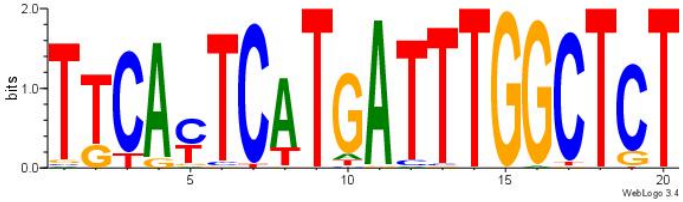

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.127083

Alignment:
AGCCCCGGTTCCCGCYCGC
ATCCATCCATCCATCCA--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

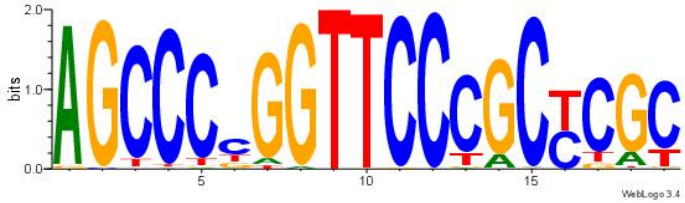

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

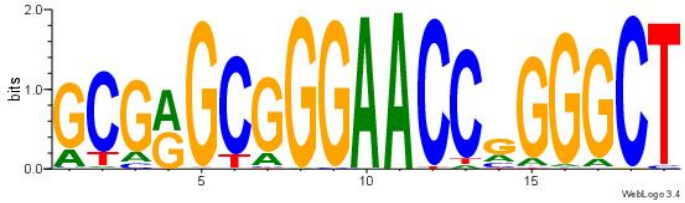

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.128291

Alignment:

```
GACTTCAAGAATGAAGCCG
--ATCCATCCATCCATCCA
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

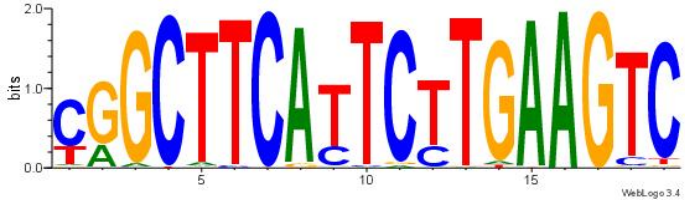

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.12831

Alignment:

```
GGTTCATCTCACTAGGGAGT
-ATCCATCCATCCATCCA--
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

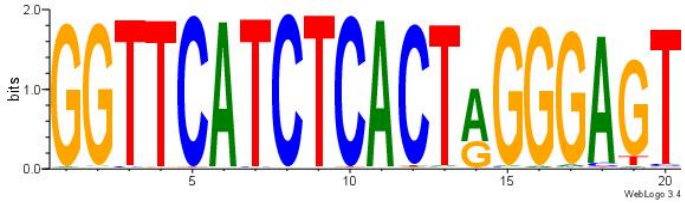

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

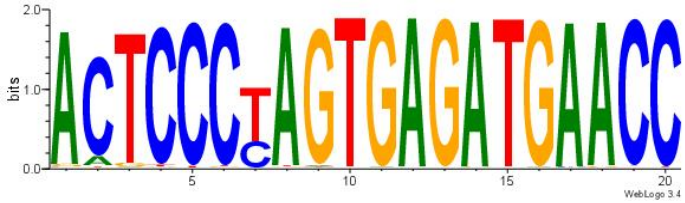

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.128341

Alignment:
ATTGGTGTATTTACAATCCC
--TGGATGGATGGATGGAT-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

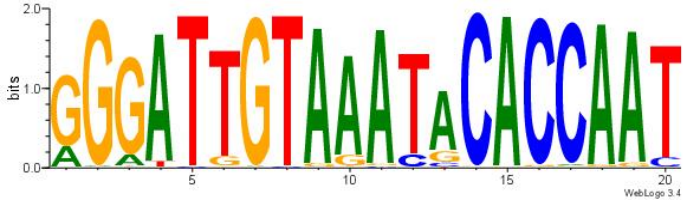

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 17
Similarity score: 0.129141

Alignment:
CATTCTGGGGTCTGGAGGAY
TGGATGGATGGATGGAT---

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

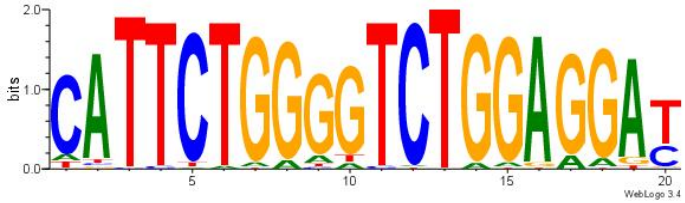

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

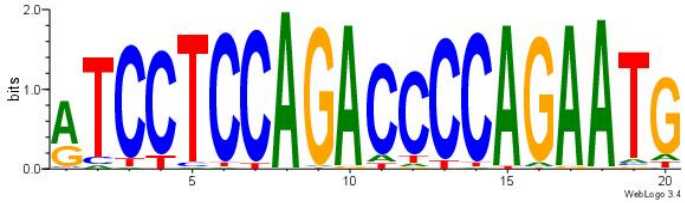

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.129819

Alignment:

```
CATTTGGGAGCCCATTGA
-ATCCATCCATCCATCCA
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

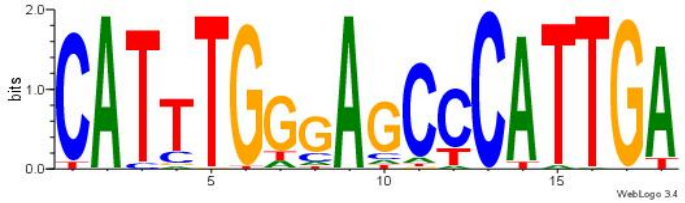

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

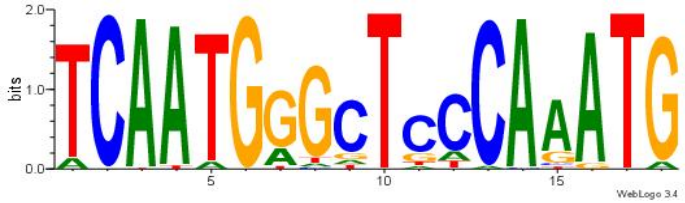

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.129939

Alignment:

```
ACTTTGGACTGTGGACTTTT
TGGATGGATGGATGGAT---
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

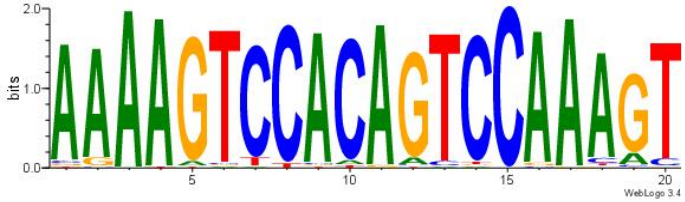

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

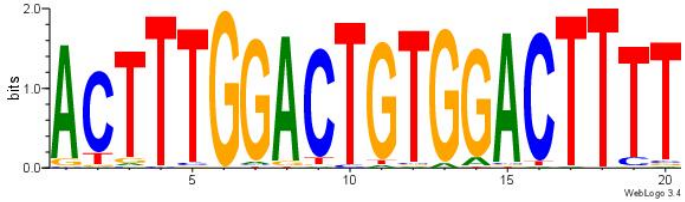

Dataset #:	1
Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 17
Similarity score: 0.130014

Alignment:
GCCKGGMKCMGTGGCTCAKG
---TGGATGGATGGATGGAT

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

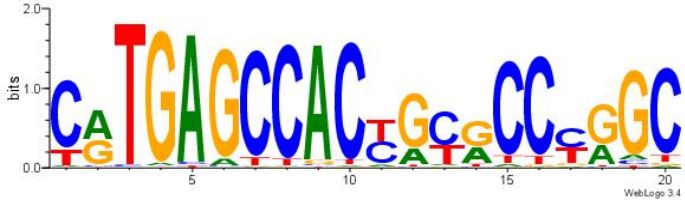

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

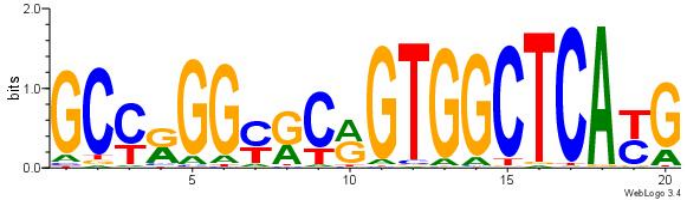

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.130196

Alignment:
GTGCCAGGCACTGTKCTARG
-ATCCATCCATCCATCCA--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

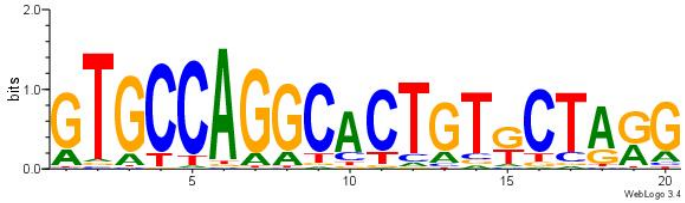

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

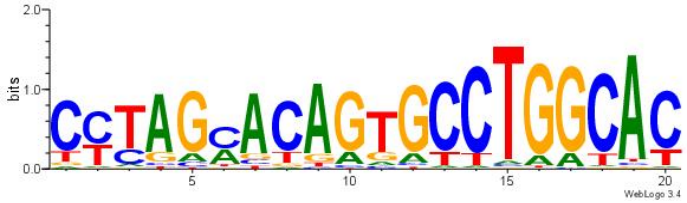

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.130434

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
-TGGATGGATGGATGGAT--
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

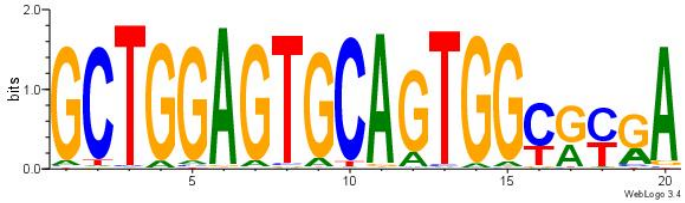

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

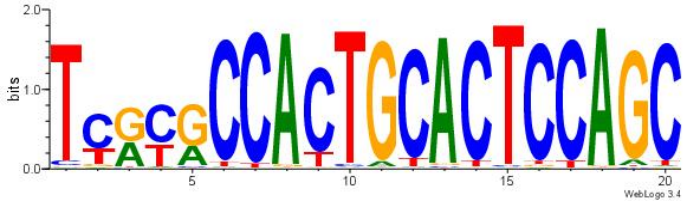

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.13061

Alignment:

```
TAGATAATAGCTCCAGCTTT
--ATCCATCCATCCATCCA-
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

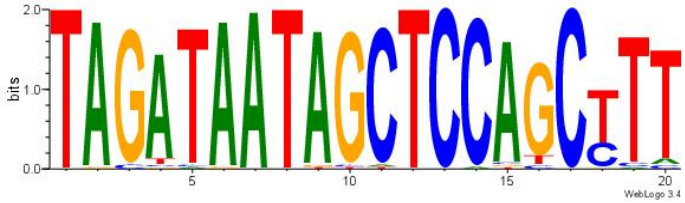

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

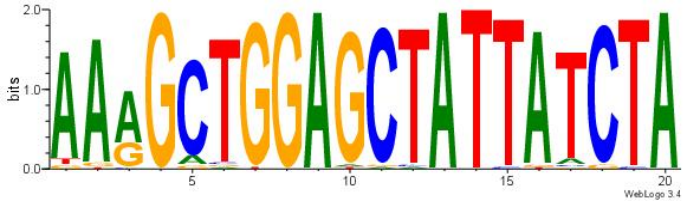

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 17
Similarity score: 0.131899

Alignment:
AAATTAGGCCAATTAATAAC
--ATCCATCCATCCATCCA-

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

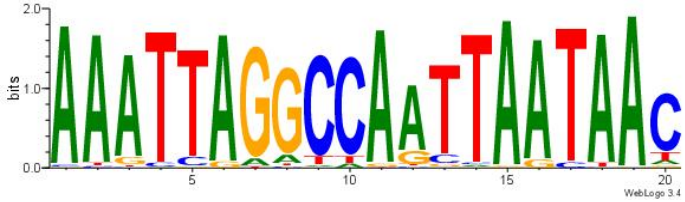

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.132418

Alignment:
CTGGGCRACAGAGYRAGACY
-TGGATGGATGGATGGAT--

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

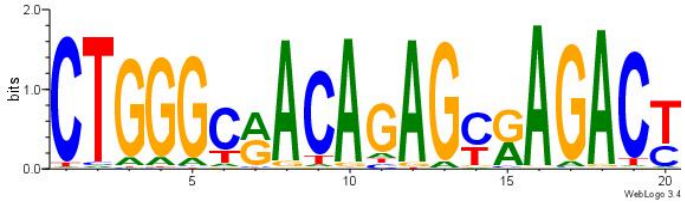

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

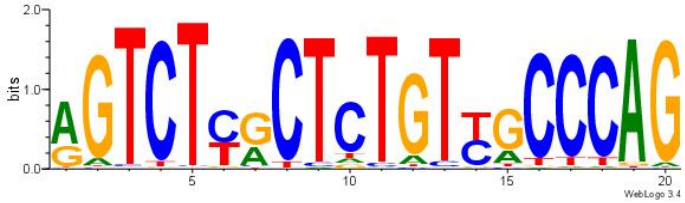

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.132796

Alignment:

```
GGCACTGCTGGGGGACCCAG
TGGATGGATGGATGGAT---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

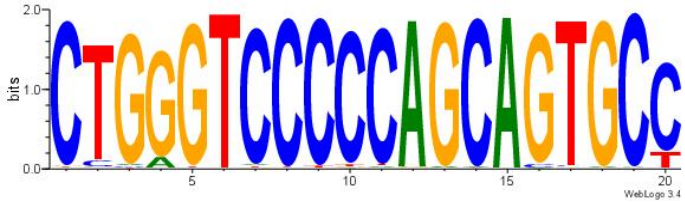

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

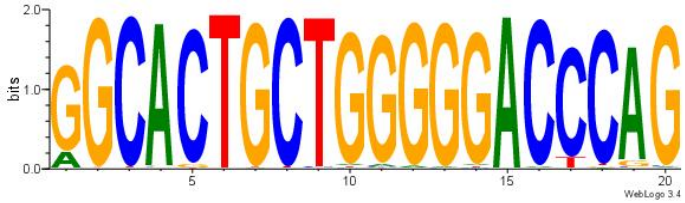

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.133043

Alignment:

```
AAGCTCGAACTGGGTGGAGC
-TGGATGGATGGATGGAT--
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

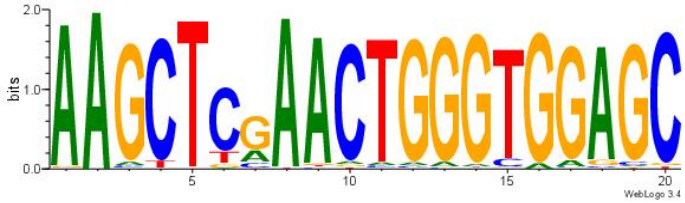

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

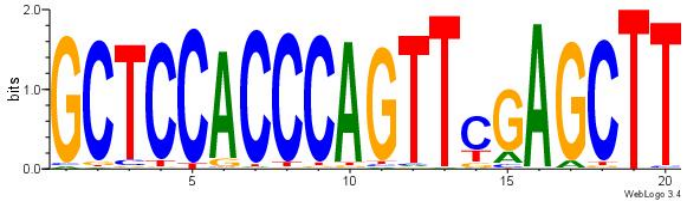

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 17
Similarity score: 0.133077

Alignment:
TGGCTTCACCCAGTGGATCC
TGGATGGATGGATGGAT---

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

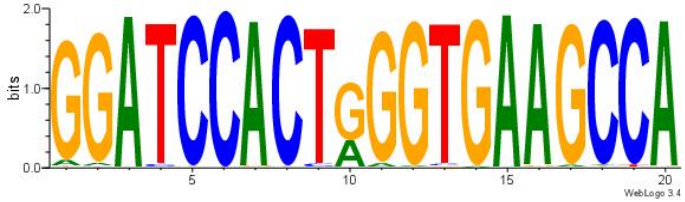

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

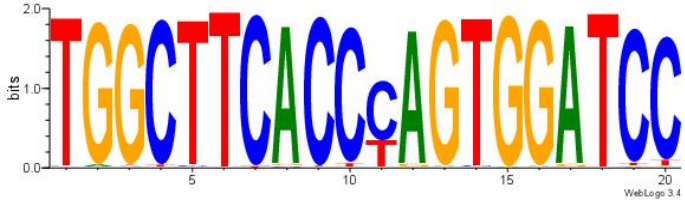

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.133337

Alignment:
TGAGKCAATTAAACCTCTT
ATCCATCCATCCATCCA--

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

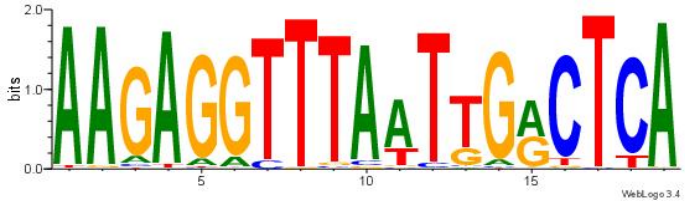

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

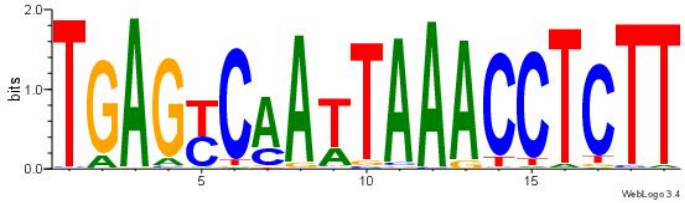

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.133708

Alignment:

```
CGGCGCTGMGCTCGATTTCT
---TGGATGGATGGATGGAT
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

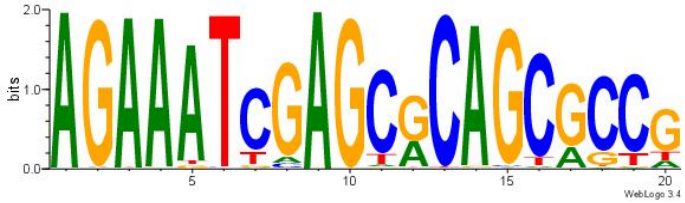

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

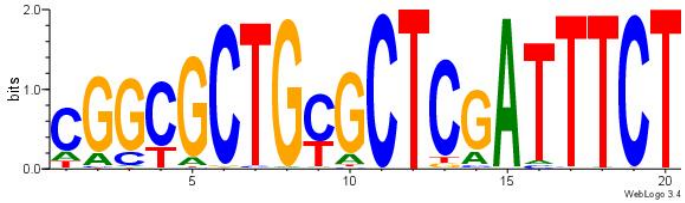

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.133755

Alignment:

```
CAGAAATCACCCGTCTT
ATCCATCCATCCATCCA
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

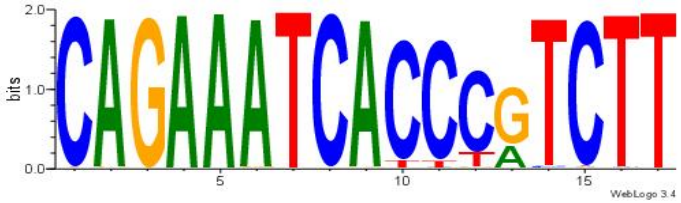

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

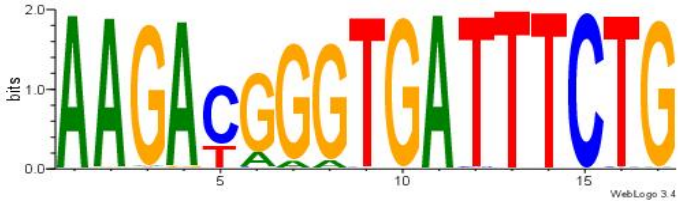

Dataset #: 1 Motif ID: 342 Motif name: Motif 342

Original motif Consensus sequence: GCCTATTAAAC

Reverse complement motif Consensus sequence: GTTTAATAGGC

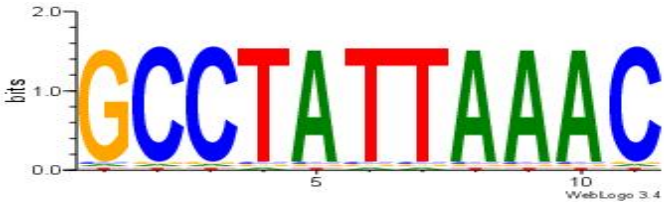

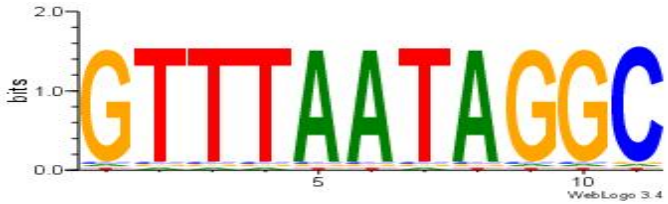

Best Matches for Motif ID 342 (Highest to Lowest)

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.032945

Alignment:

```
TGAGKCAATTAAACCTCTT
-----GCCTATTAAAC---
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

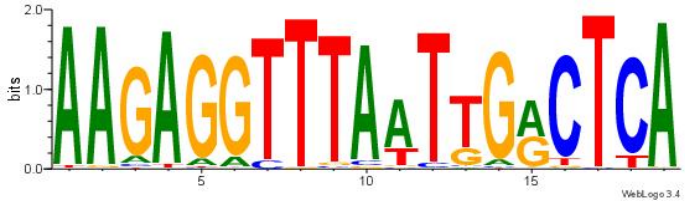

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

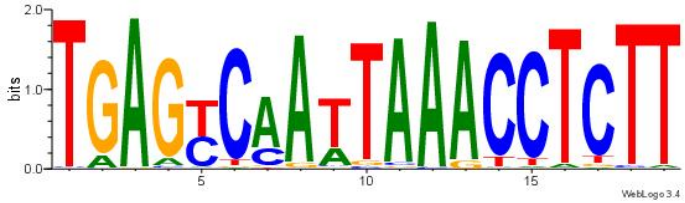

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0624203

Alignment:

```
AGGTTTGTTACATAGGTAWA
---GTTTAATAGGC------
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

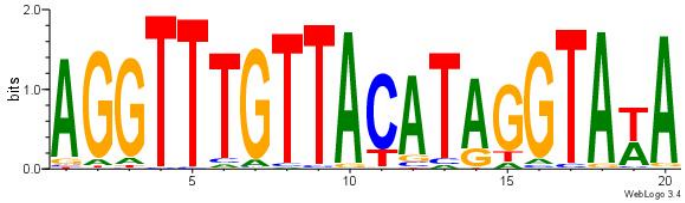

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

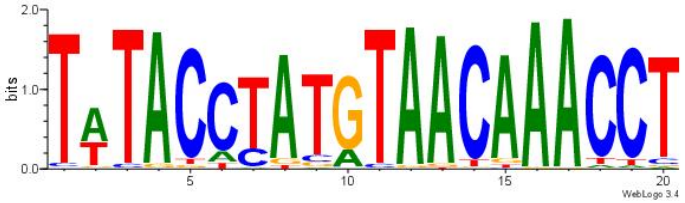

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 11
Similarity score: 0.0647175

Alignment:
GTTATTAATTGGCCTAATTT
--GTTTAATAGGC-------

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

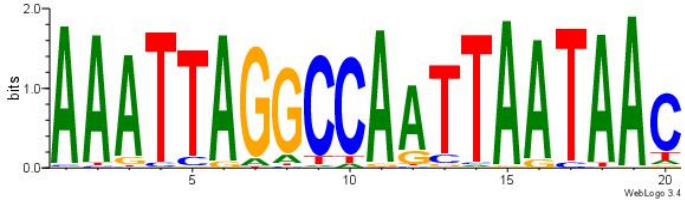

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0690668

Alignment:
GCCGTTTKTTAAGCCCGTY
-----GTTTAATAGGC---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

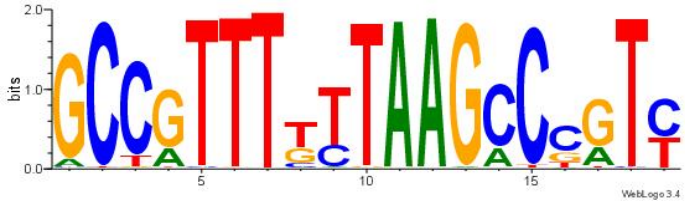

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

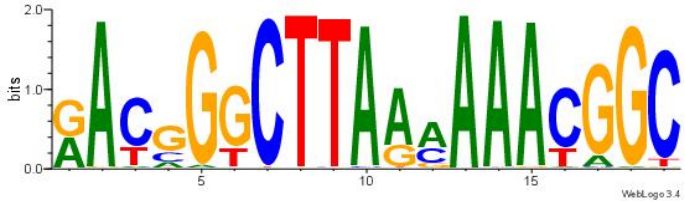

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0723689

Alignment:

```
CAAASCKGTCATAGGCCAT
-----GTTTAATAGGC---
```

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

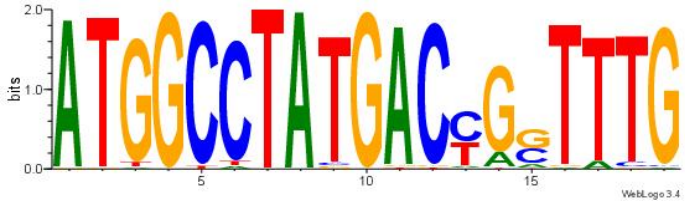

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

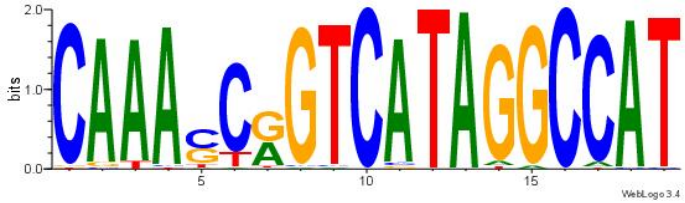

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.075822

Alignment:

```
GTTGGCCAGGCTGGTCT
GTTTAATAGGC------
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

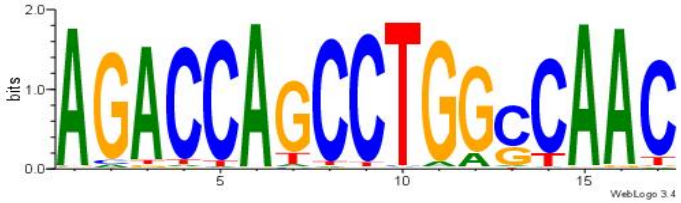

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

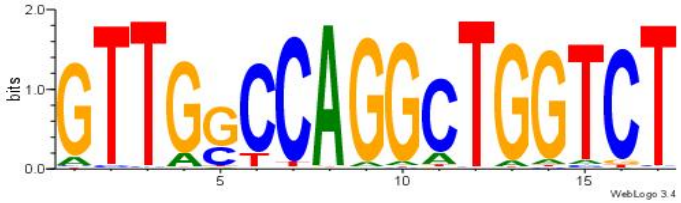

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8

Number of overlap: 11
Similarity score: 0.07736

Alignment:
AGGCTGTTTTACAGTTAAC
-------GCCTATTAAAC-

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

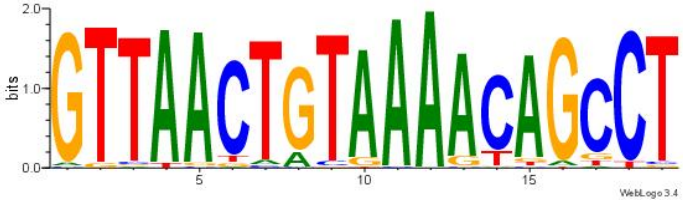

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

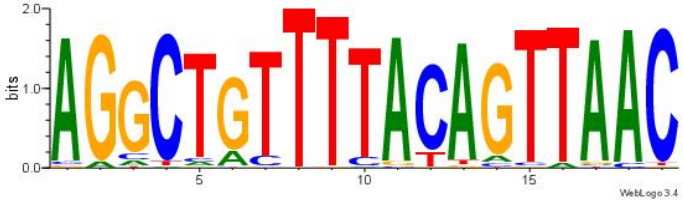

Dataset #: 1
Motif ID: 239
Motif name: Motif 239
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0774895

Alignment:
AGCCTCCAGAACTGT
-GCCTATTAAAC---

Original motif Consensus sequence: AGCCTCCAGAACTGT

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0792269

Alignment:

```
AATTAAAAGACACAGACTG
GTTTAATAGGC--------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

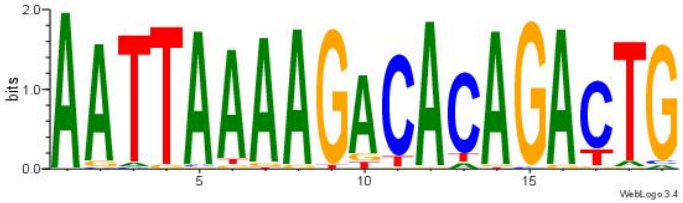

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

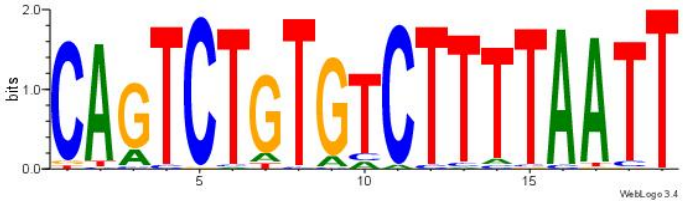

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.079995

Alignment:

```
GCCAATTTCTCCCATTTGGA
---------GCCTATTAAAC
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

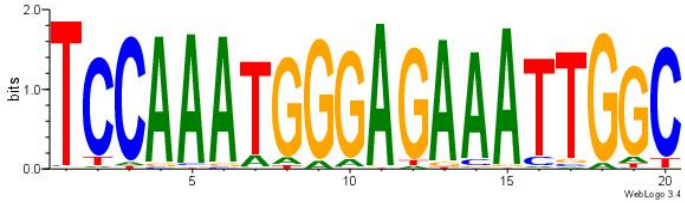

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

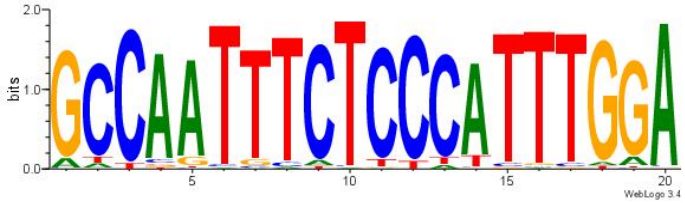

Dataset #:	1
Motif ID:	40
Motif name:	Motif 40
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0806826

Alignment:
GCCTCCCAAAGT
-GCCTATTAAAC

Original motif Consensus sequence: ACTTTGGGAGGC

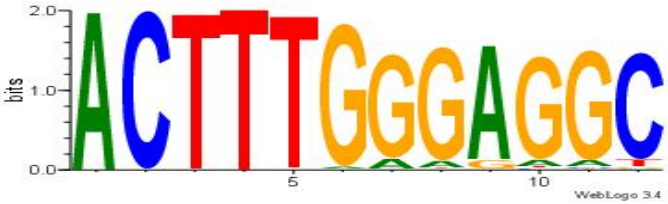

Reverse complement motif Consensus sequence: GCCTCCCAAAGT

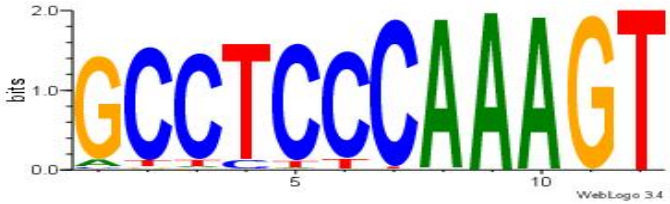

Dataset #: 1
Motif ID: 230
Motif name: Motif 230
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0807566

Alignment:
AGAAAGGCATGTGAAAA
------GCCTATTAAAC

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

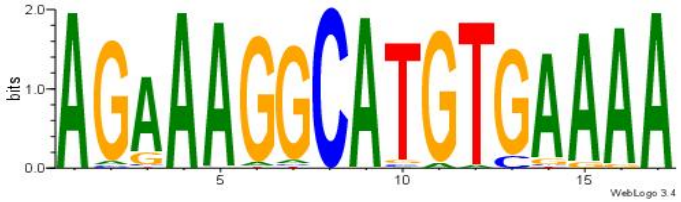

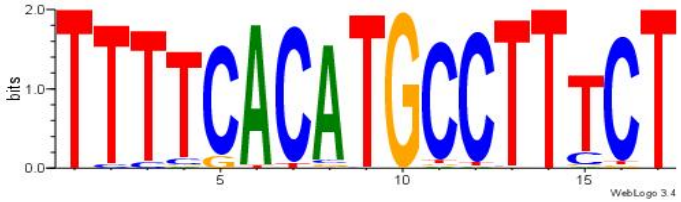

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.081286

Alignment:

```
AGTTGTAATTGGGAGACTT
------GTTTAATAGGC--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

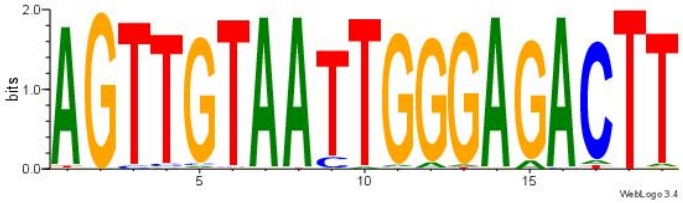

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

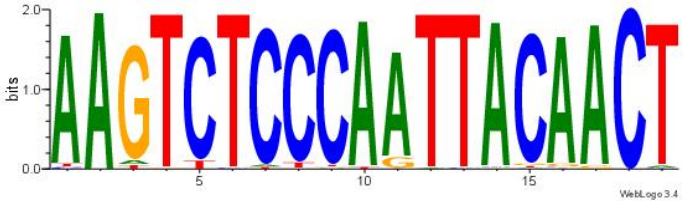

Dataset #: 1

Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.081649

Alignment:

```
CATTAGATTCTCATAGGA
GTTTAATAGGC-------
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

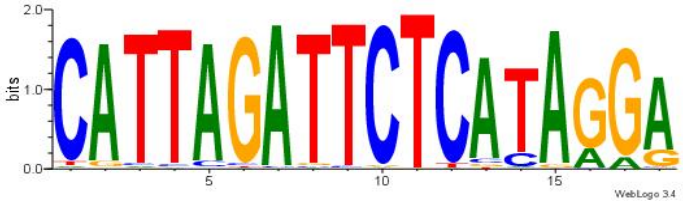

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

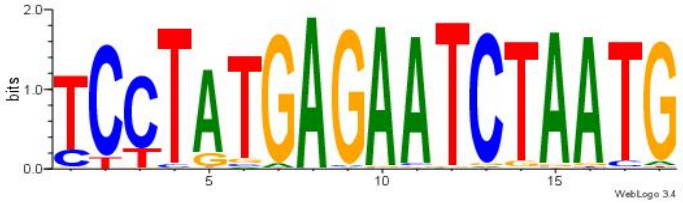

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11

Similarity score: 0.0836619

Alignment:
CCTAGATTTCAGARGATGT
---GTTTAATAGGC-----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

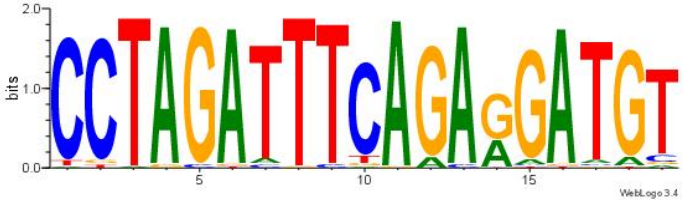

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

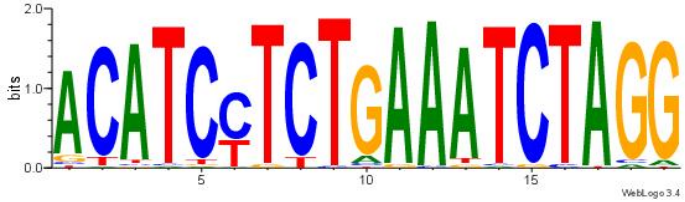

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0839468

Alignment:
CTCATTTAATCCTCACAAC
-----GTTTAATAGGC---

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

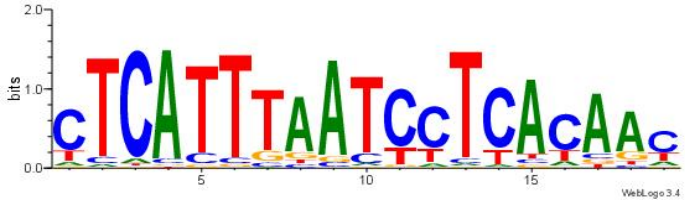

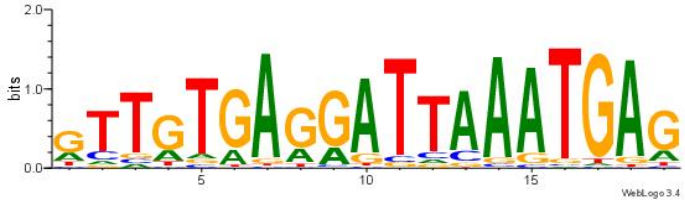

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0843336

Alignment:

```
CAAGGGTATAYGAGTAGCTG
----GTTTAATAGGC-----
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

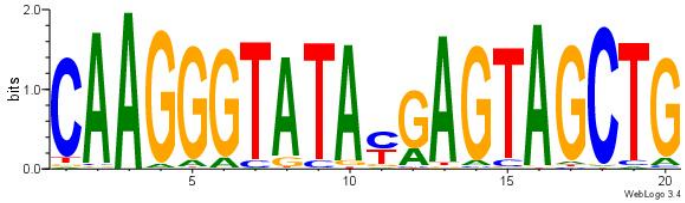

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

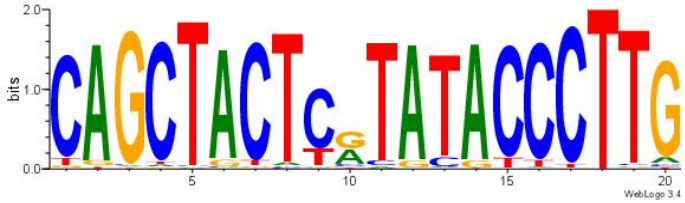

Dataset #: 1

Motif ID:	276
Motif name:	Motif 276
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0852638

Alignment:

```
TGGCCTGTTAGGAA
--GCCTATTAAAC-
```

Original motif Consensus sequence: TGGCCTGTTAGGAA

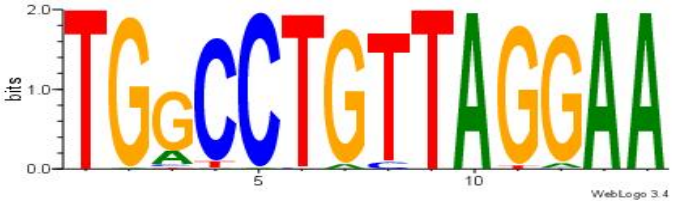

Reverse complement motif Consensus sequence: TTCCTAACAGGCCA

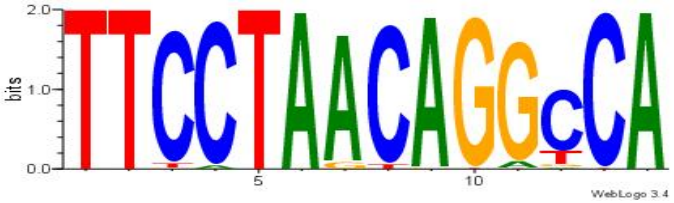

Dataset #:	1
Motif ID:	282
Motif name:	Motif 282
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0869221

Alignment:
TTTTAGTAGAGAC
GTTTAATAGGC--

Original motif Consensus sequence: GTCTCTACTAAAA

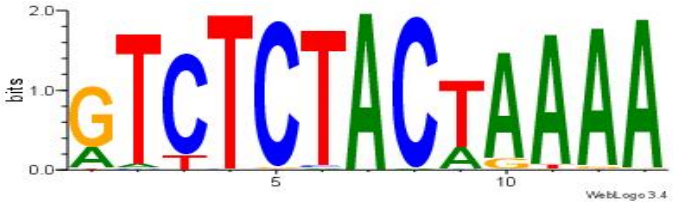

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

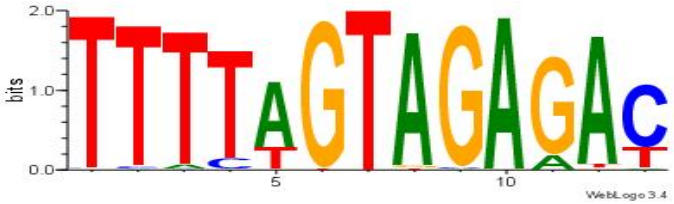

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.0872851

Alignment:
ATGGAATAYTATTCAGCCAT
------GTTTAATAGGC---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

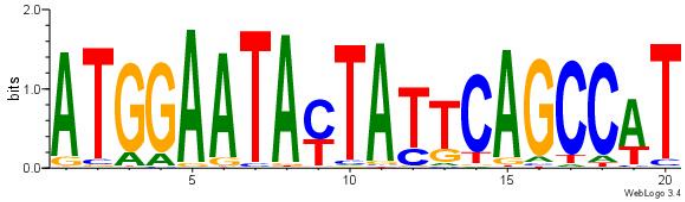

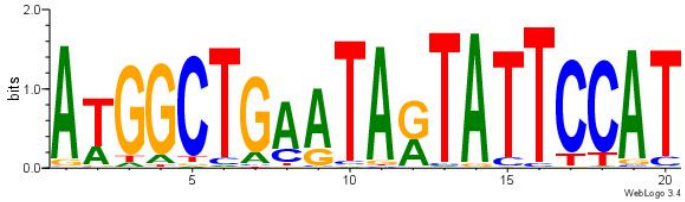

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0882251

Alignment:

```
CCTGCCATTGCYSAGGCTTG
---GTTTAATAGGC------
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

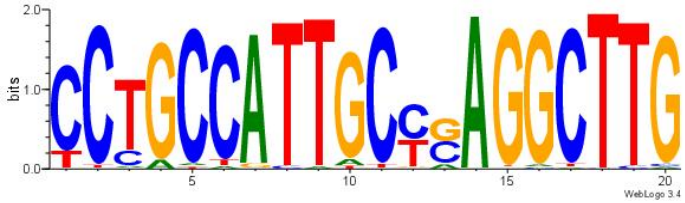

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

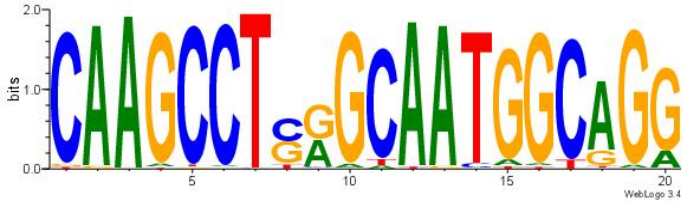

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0884155

Alignment:

```
AGTAGGTGCTCARTAAATRB
-------GCCTATTAAAC--
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

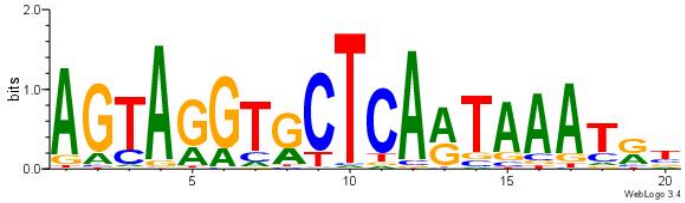

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

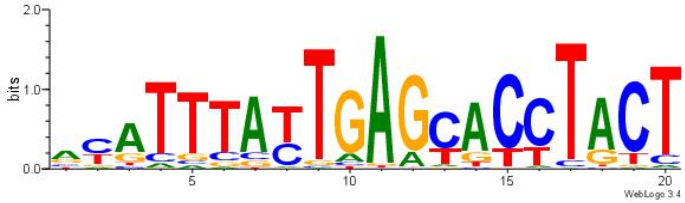

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0895468

Alignment:
AAGTTCTKGGKTACATGTGC
---------GTTTAATAGGC

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

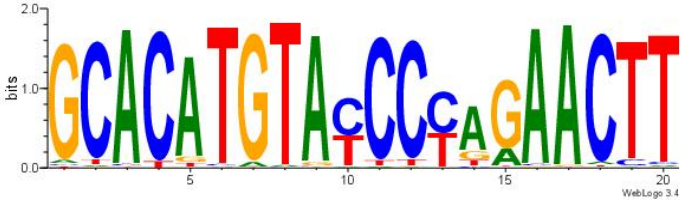

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

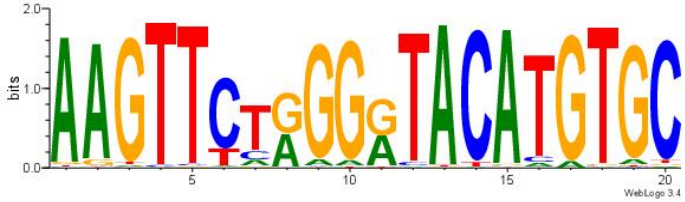

Dataset #: 1
Motif ID: 60
Motif name: Motif 60
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0919107

Alignment:
GATCACGAGGTCAGGAG
------GTTTAATAGGC

Original motif Consensus sequence: GATCACGAGGTCAGGAG

Reverse complement motif Consensus sequence:
CTCCTGACCTCGTGATC

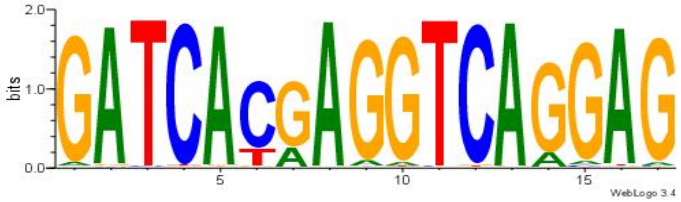

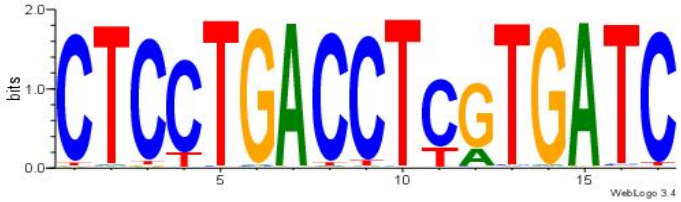

Dataset #:	1
Motif ID:	81
Motif name:	Motif 81
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0955328

Alignment:

```
CATCTGTAAAAT
-GCCTATTAAAC
```

Original motif Consensus sequence: CATCTGTAAAAT

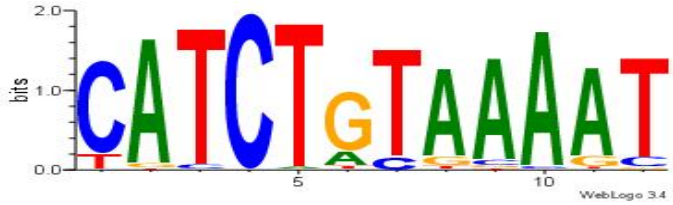

Reverse complement motif Consensus sequence: ATTTTACAGATG

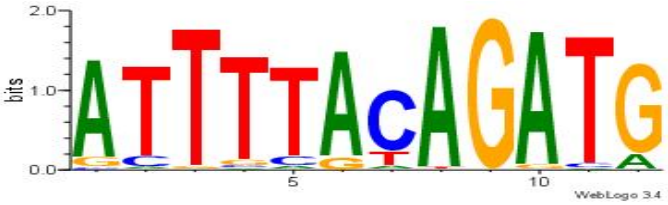

Dataset #:	1
Motif ID:	165

Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0957456

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
GCCTATTAAAC---------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

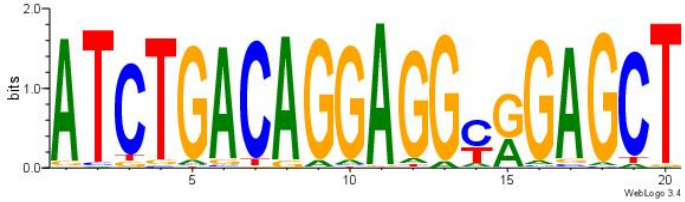

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

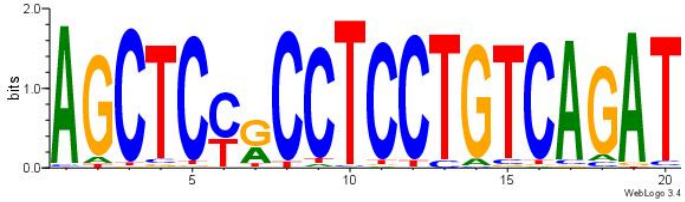

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0963131

Alignment:
WACAATCAGACCTTG
GCCTATTAAAC----

Original motif Consensus sequence: CAAGGTCTGATTGTW

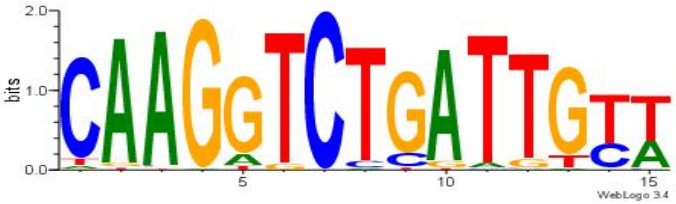

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.096547

Alignment:
TTCAMTCATGATTTGGCTCT
------GTTTAATAGGC---

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

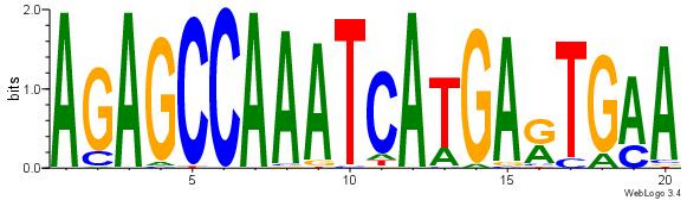

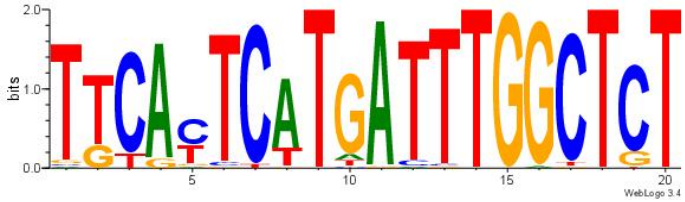

Dataset #:	1
Motif ID:	256
Motif name:	Motif 256
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0968503

Alignment:

```
RCAGTGTACACTGY
GTTTAATAGGC---
```

Original motif Consensus sequence: RCAGTGTACACTGY

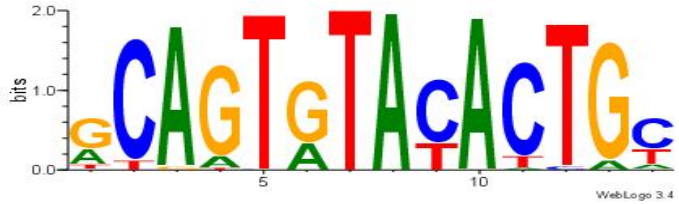

Reverse complement motif Consensus sequence: KCAGTGTACACTG

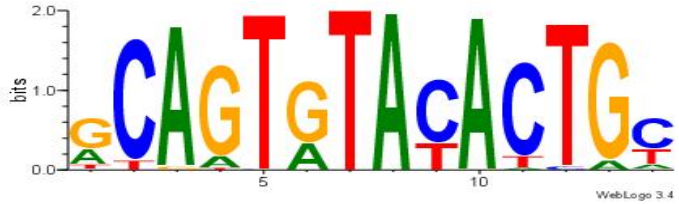

Dataset #:	1
Motif ID:	262

Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0971421

Alignment:

```
CTCAGTGTTAATCTCCTGTC
----GTTTAATAGGC-----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

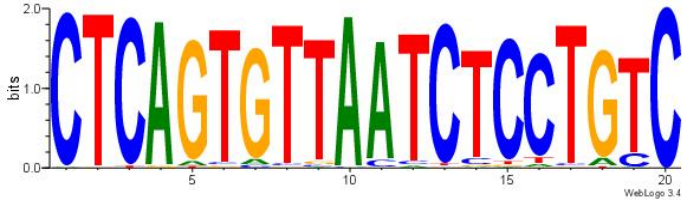

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

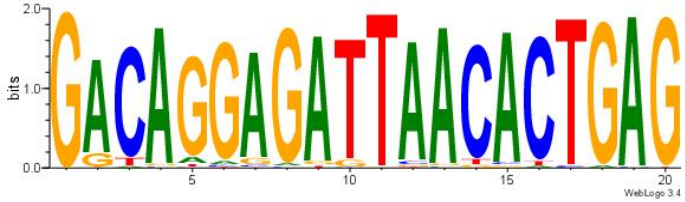

Dataset #:	1
Motif ID:	354
Motif name:	Motif 354
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0972935

Alignment:
GTCTTTATCAGC
-GTTTAATAGGC

Original motif Consensus sequence: GCTGATAAAGAC

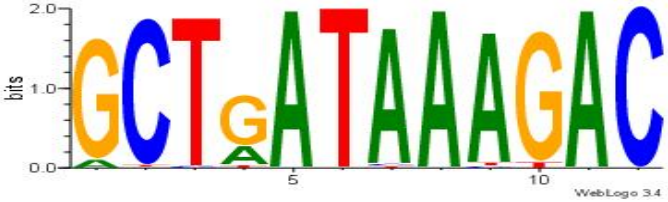

Reverse complement motif Consensus sequence: GTCTTTATCAGC

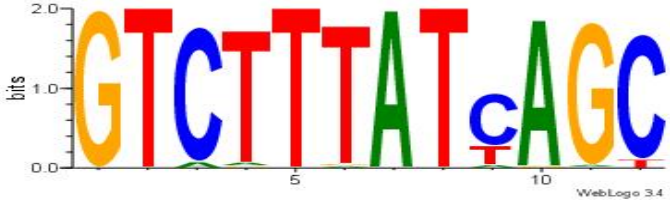

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.097678

Alignment:
GAATACCTCCTGAAGGACCT
-----GCCTATTAAAC----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

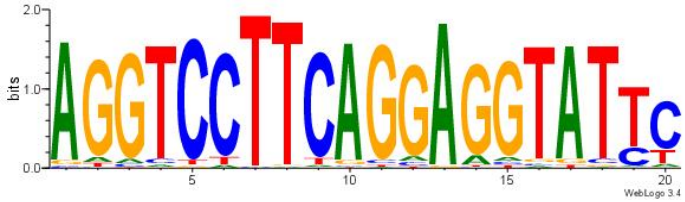

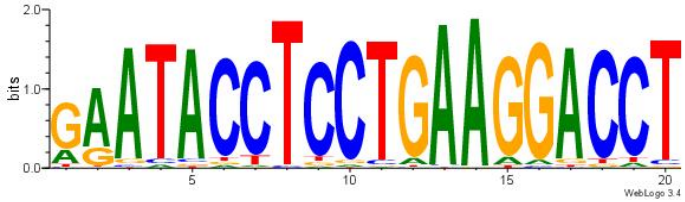

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0978842

Alignment:

```
ATCATTCTTATGCCTTTG
--GTTTAATAGGC-----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

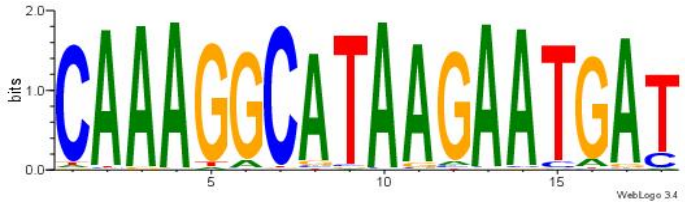

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

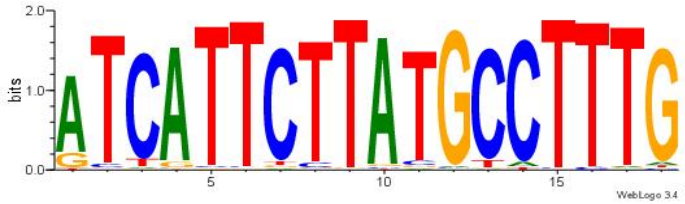

Dataset #:	1

Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0980334

Alignment:

```
AGTTCTTAAAGATGGT
GCCTATTAAAC-----
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

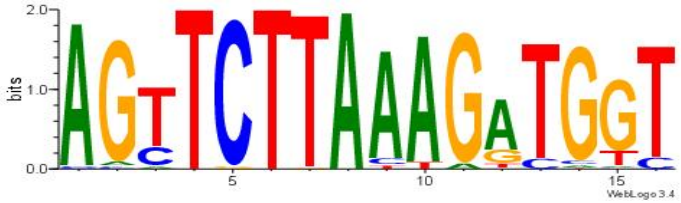

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

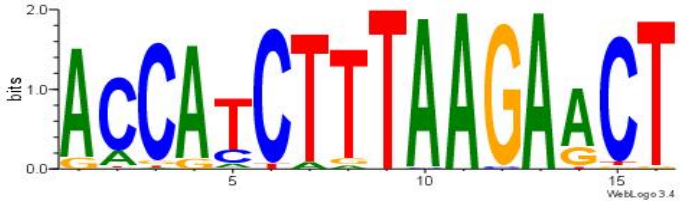

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.098109

Alignment:
GTTTAACCATTGAGGGCCAG
GTTTAATAGGC---------

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

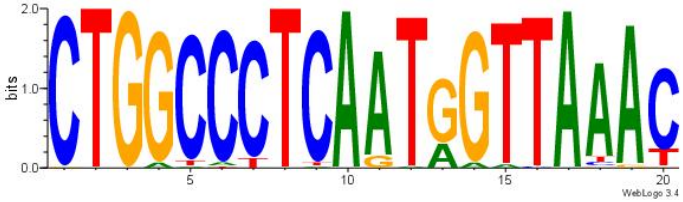

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

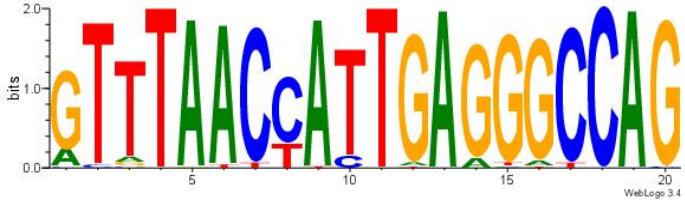

Dataset #: 1
Motif ID: 53
Motif name: Motif 53
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 11
Similarity score: 0.0981238

Alignment:
GTCCCATCGACCACCCAAG
-GCCTATTAAAC-------

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

Reverse complement motif Consensus sequence:
CTTGGGTGGTCGATGGGAC

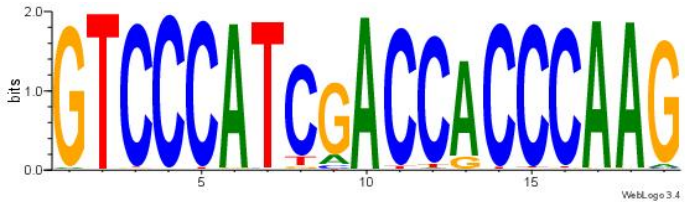

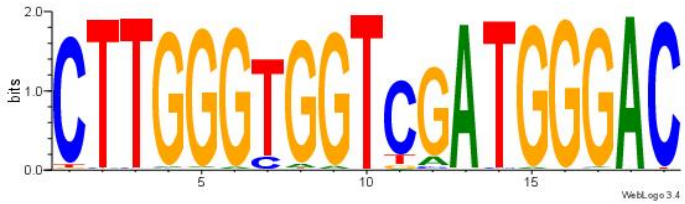

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.098198

Alignment:

```
CCCAAATCTCATSTTGAAT
--------GCCTATTAAAC
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

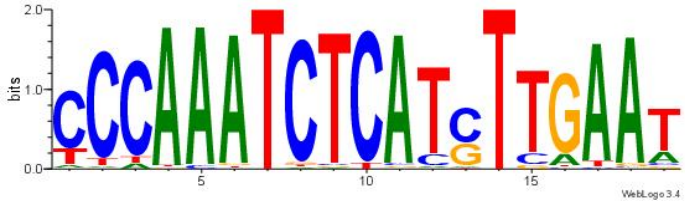

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

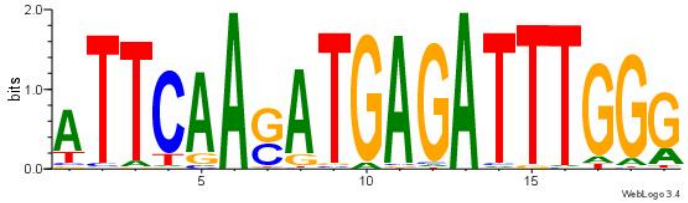

Dataset #:	1

Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0984471

Alignment:

```
CTGTTTGCCTGGGTATCA
--GTTTAATAGGC-----
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

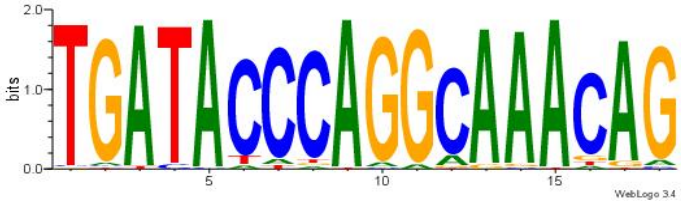

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

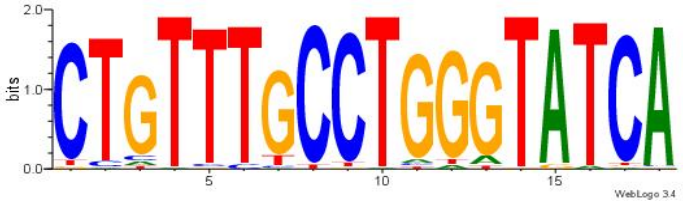

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.0986547

Alignment:
CCACCACAGCTCAAGGAGGC
GTTTAATAGGC---------

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

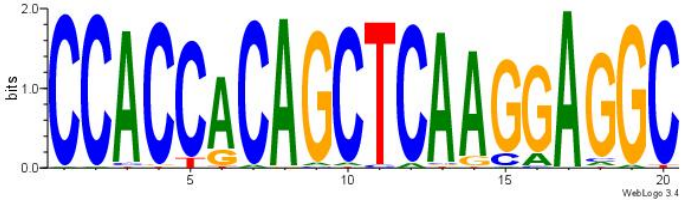

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

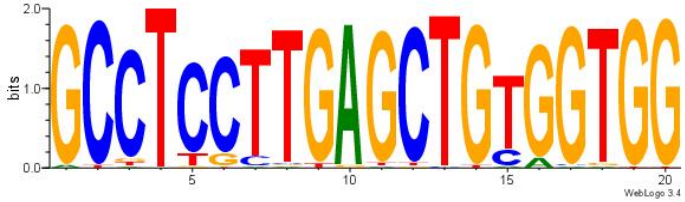

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0988312

Alignment:
CCCTGCTAGAACCTCCAA
GCCTATTAAAC-------

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

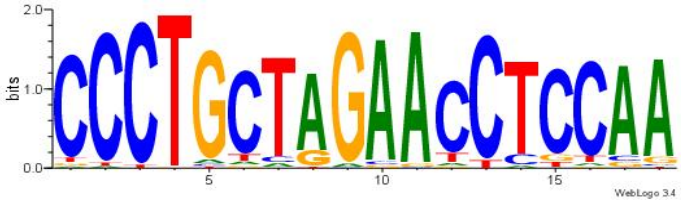

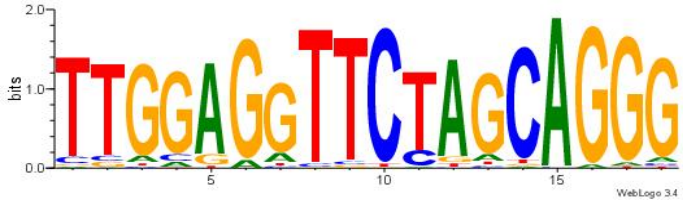

Dataset #:	1
Motif ID:	347
Motif name:	Motif 347
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0988655

Alignment:

```
GTGTGCGAATAGGTGT
---GTTTAATAGGC--
```

Original motif Consensus sequence: ACACCTATTCGCACAC

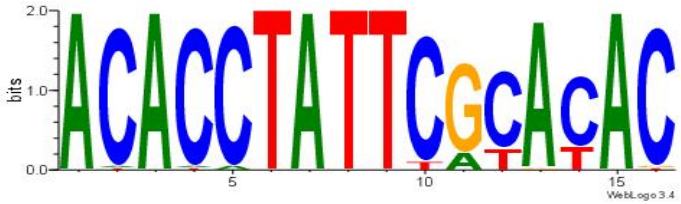

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

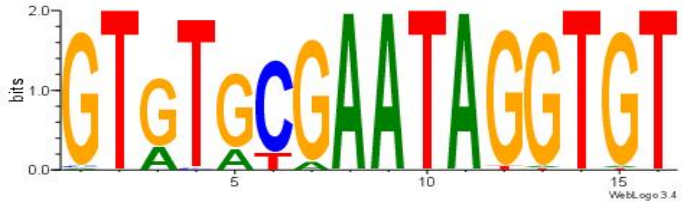

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0989886

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
---GCCTATTAAAC------
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

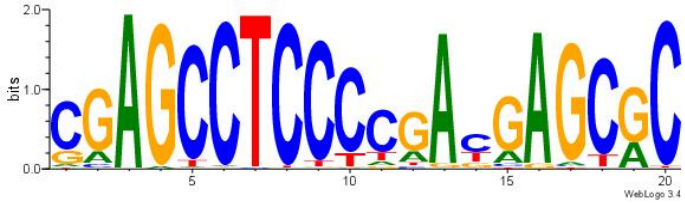

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

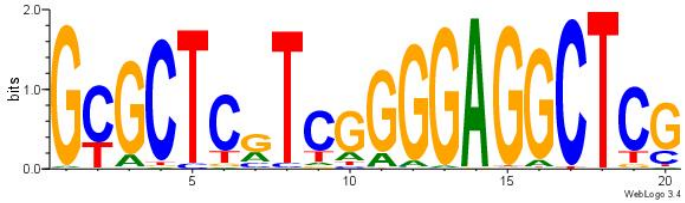

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0993378

Alignment:
GAGCTTTAAGATTT
---GTTTAATAGGC

Original motif Consensus sequence: AAATCTTAAAGCTC

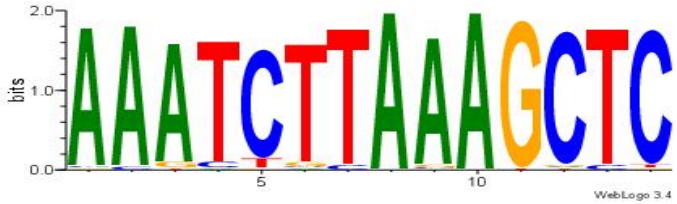

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

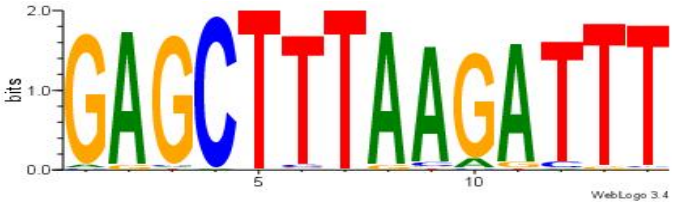

Dataset #: 1
Motif ID: 212
Motif name: Motif 212
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.0993518

Alignment:
MTTGACTACCCTA
GTTTAATAGGC--

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

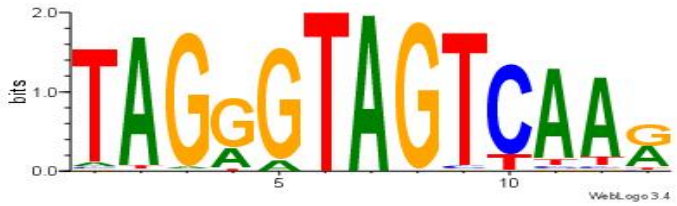

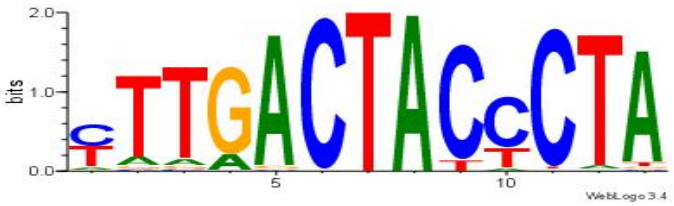

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0995989

Alignment:

```
CTATTGTGAATARTGCTGC
----GTTTAATAGGC----
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

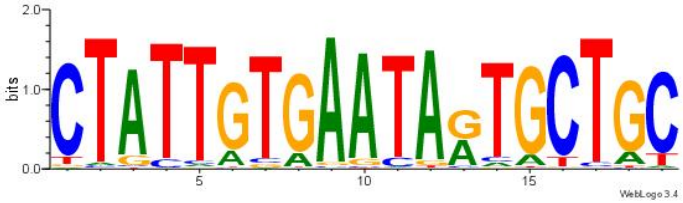

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

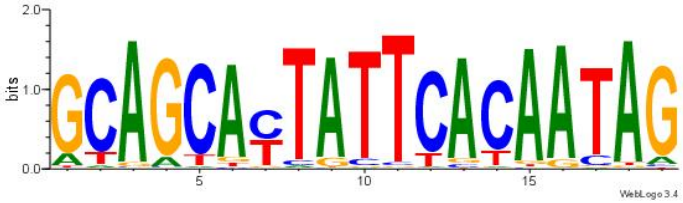

Dataset #: 1

Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.100179

Alignment:

```
CTCAGGAATGGAAAACC
-----GCCTATTAAAC-
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

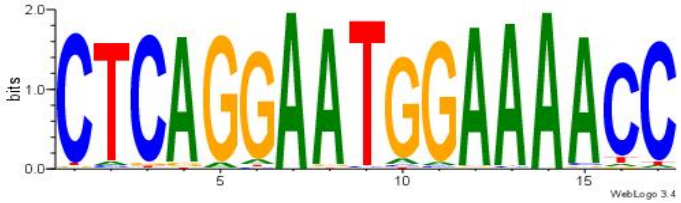

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

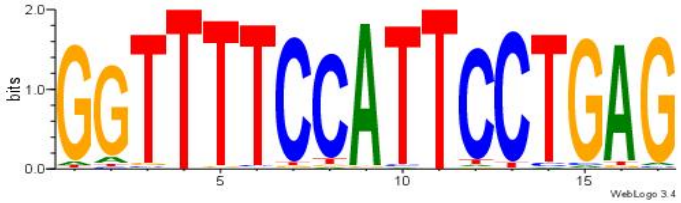

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.100203

Alignment:
TAATTTTATGTGTCAACTTG
---GTTTAATAGGC------

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

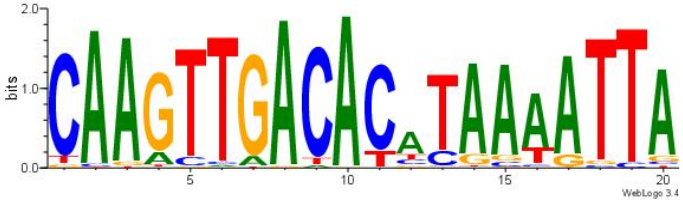

Reverse complement motif Consensus sequence:
TAATTTTATGTGTCAACTTG

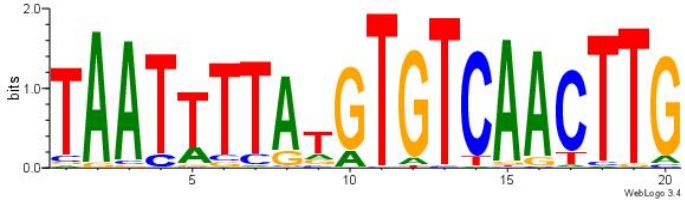

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.100629

Alignment:
GGGATTGTAAATACACCAAT
--------GCCTATTAAAC-

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

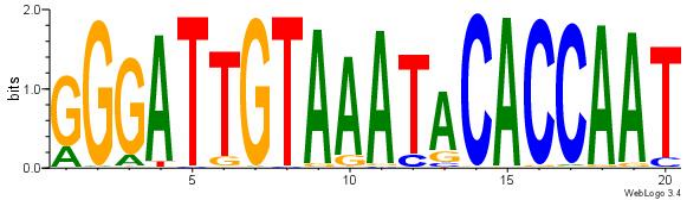

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.100833

Alignment:

```
AGCCYCTGGYAACCAYYAWT
---GCCTATTAAAC------
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

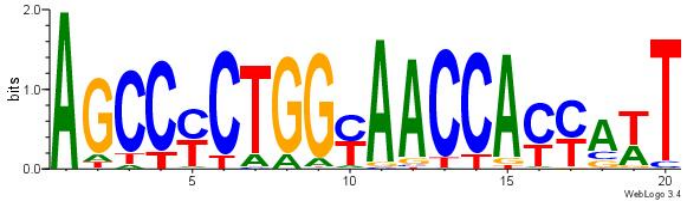

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

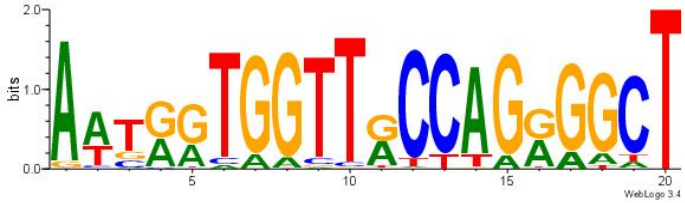

Dataset #: 1

Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.100988

Alignment:

```
GGATTTMKGACTTGCATGGG
---------GCCTATTAAAC
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

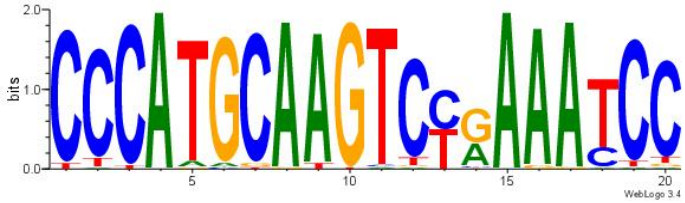

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

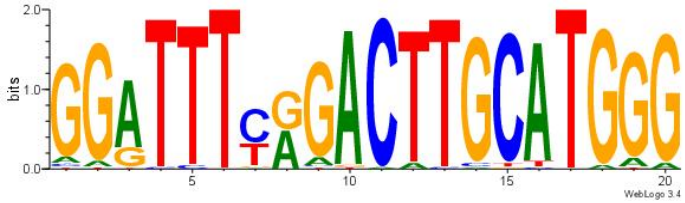

Dataset #: 1 Motif ID: 343 Motif name: Motif 343

Original motif Consensus sequence: CTGGGATTACA

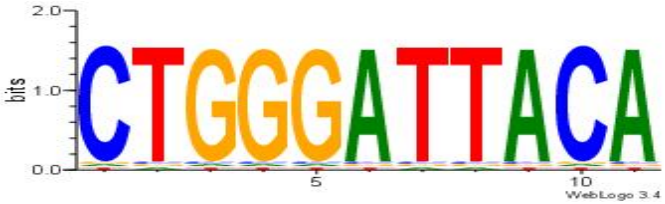

Reverse complement motif Consensus sequence: TGTAATCCCAG

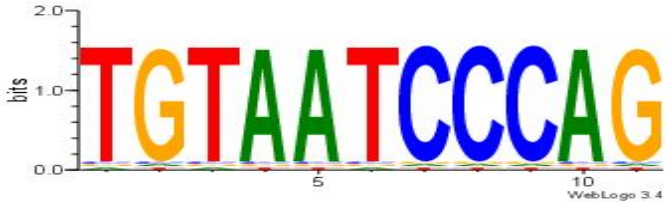

Best Matches for Motif ID 343 (Highest to Lowest)

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.022272

Alignment:

```
GCTGGGATTACAGG
-CTGGGATTACA--
```

Original motif Consensus sequence: GCTGGGATTACAGG

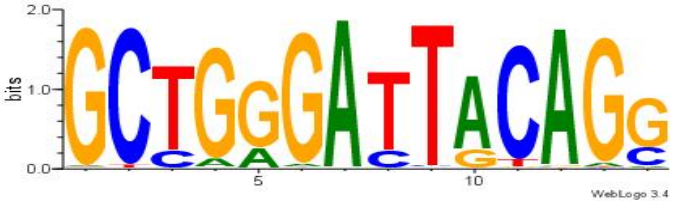

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0277108

Alignment:

```
GTAGCTGGGAYTACA
----CTGGGATTACA
```

Original motif Consensus sequence: GTAGCTGGGAYTACA

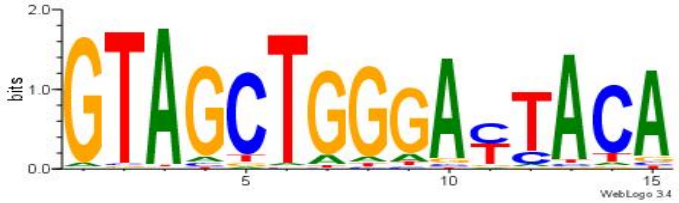

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

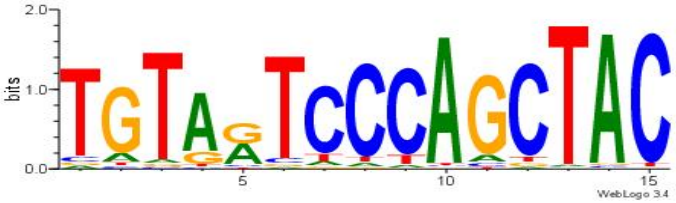

Dataset #:	1
Motif ID:	345
Motif name:	Motif 345
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0604855

Alignment:

```
CTGGGAATCCAAC
CTGGGATTACA--
```

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0725854

Alignment:

```
ACTTTCAGGCATAACA
-----CTGGGATTACA
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

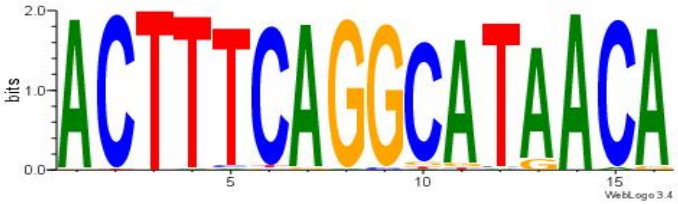

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

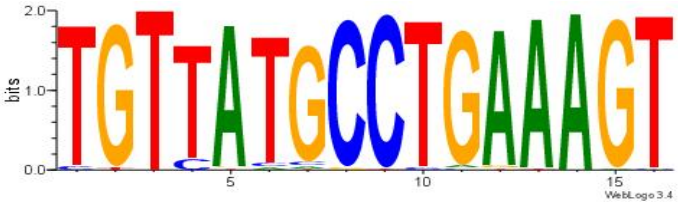

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0732372

Alignment:

```
TTTGTTATAGCAG
--TGTAATCCCAG
```

Original motif Consensus sequence: CTGCTATAACAAA

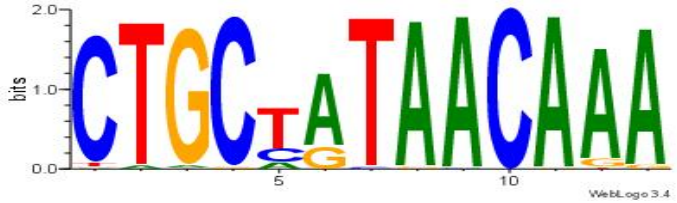

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11

Similarity score: 0.0733706

Alignment:
ATACAATGGGGGTACAGRC
-----CTGGGATTACA---

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

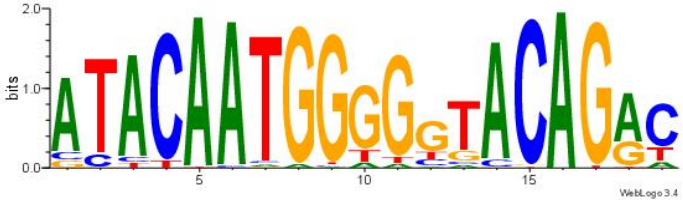

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

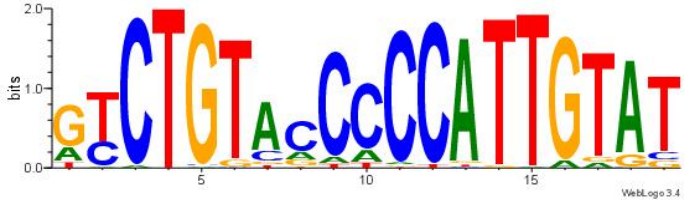

Dataset #: 1
Motif ID: 209
Motif name: Motif 209
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0776642

Alignment:
CTGTCAGCCCAT
TGTAATCCCAG-

Original motif Consensus sequence: CTGTCAGCCCAT

Reverse complement motif Consensus sequence: ATGGGCTGACAG

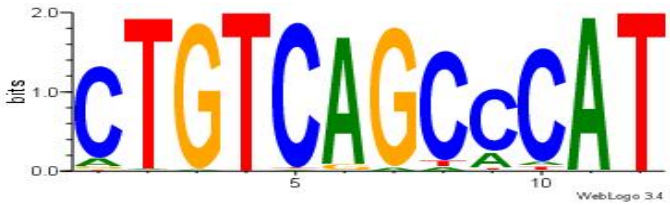

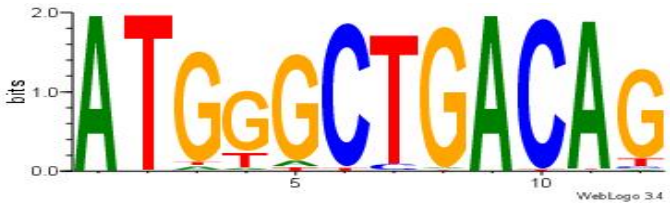

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.078021

Alignment:

```
HAGTGGKATTGCTGGATCAT
-------CTGGGATTACA--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

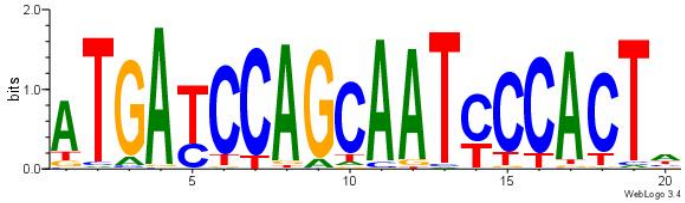

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

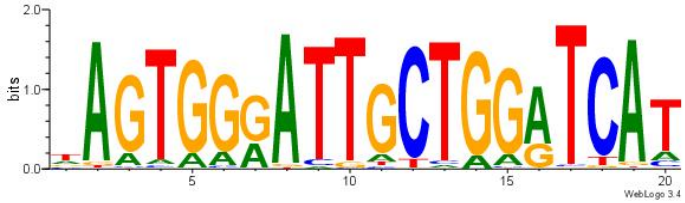

Dataset #:	1

Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0848823

Alignment:

```
CAAGCCTSKGCAATGGCAGG
--------TGTAATCCCAG-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

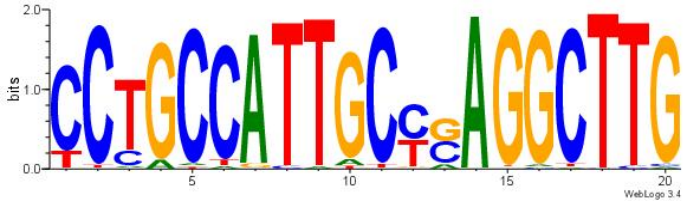

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

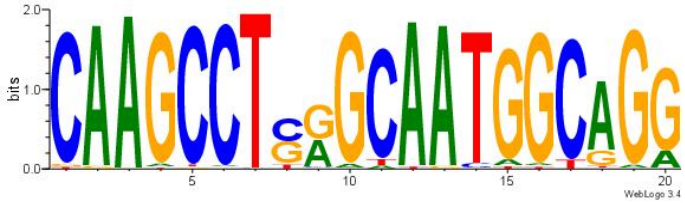

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11

Similarity score: 0.0852525

Alignment:
GCTGCARTCTCGGCACTTT
--TGTAATCCCAG------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

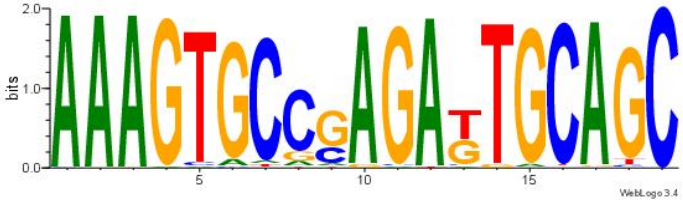

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

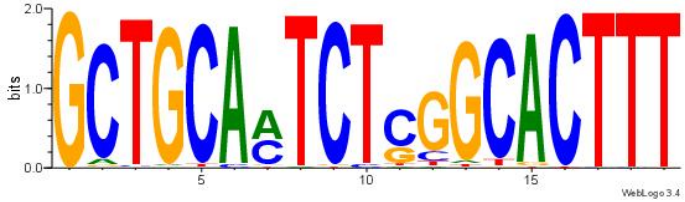

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0885504

Alignment:
GAAAGGGAACTCCCTGACCC
----TGTAATCCCAG-----

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

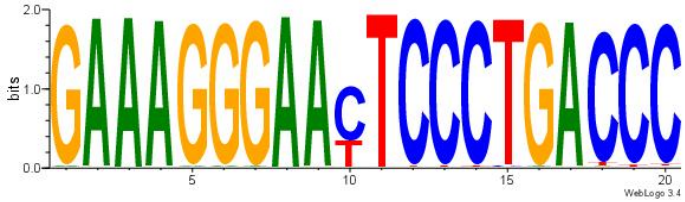

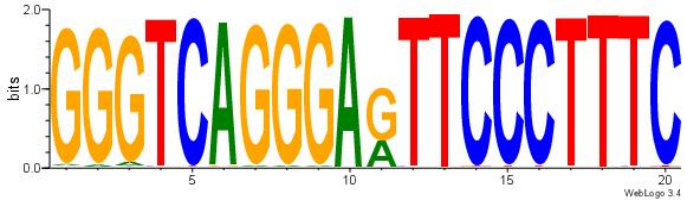

Dataset #:	1
Motif ID:	110
Motif name:	Motif 110
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.08943

Alignment:

```
ATGGGGTGCCA
CTGGGATTACA
```

Original motif Consensus sequence: ATGGGGTGCCA

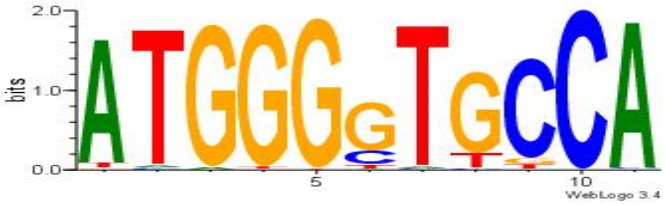

Reverse complement motif Consensus sequence: TGGCACCCCAT

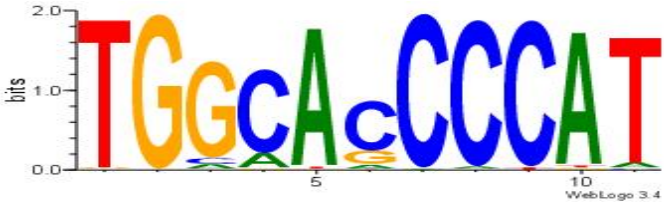

Dataset #:	1
Motif ID:	350

Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.090973

Alignment:

```
TGCTGGAGGTCCACTCCAGA
--CTGGGATTACA-------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

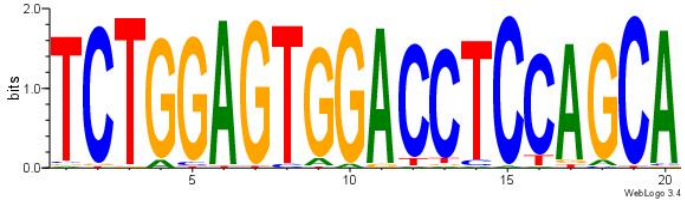

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

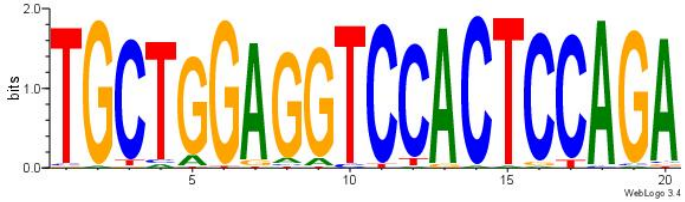

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0910251

Alignment:
GACATGGAGTCAAAGG
-TGTAATCCCAG----

Original motif Consensus sequence: GACATGGAGTCAAAGG

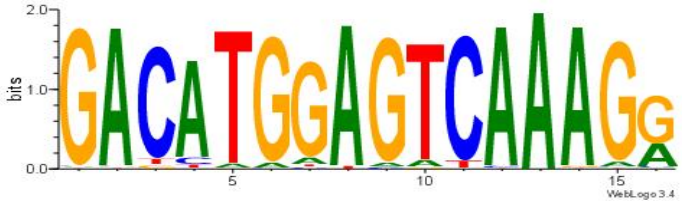

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

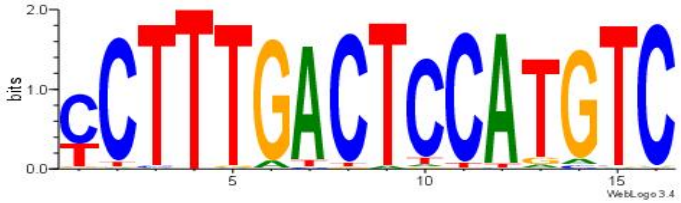

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0914031

Alignment:
TCAATGGGCTCCCAAATG
----CTGGGATTACA---

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

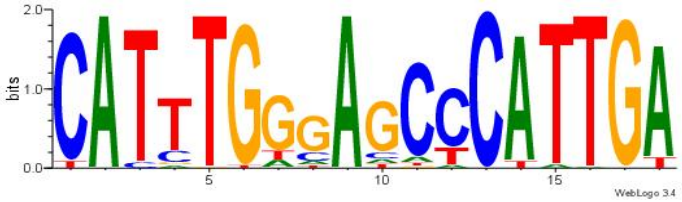

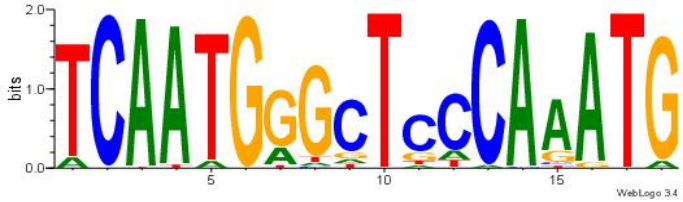

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0918989

Alignment:

```
ATTGGTGTATTTACAATCCC
----CTGGGATTACA-----
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

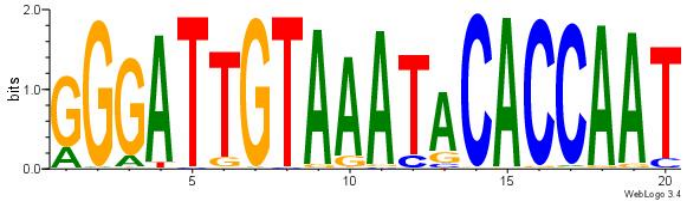

Dataset #: 1

Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0921623

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-CTGGGATTACA--------
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

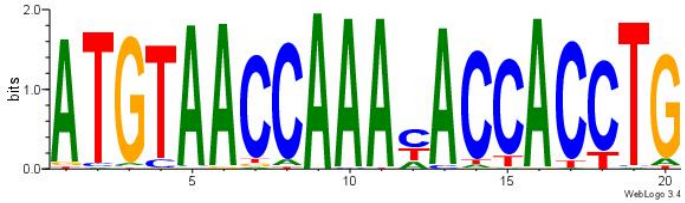

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

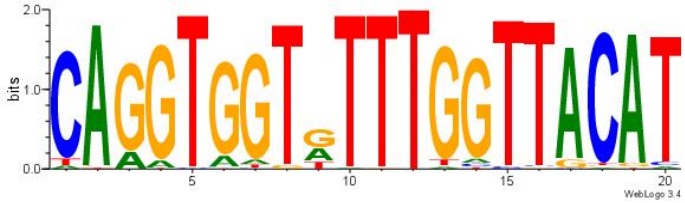

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11

Similarity score: 0.0924947

Alignment:
ATGGAATAYTATTCAGCCAT
--------TGTAATCCCAG-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

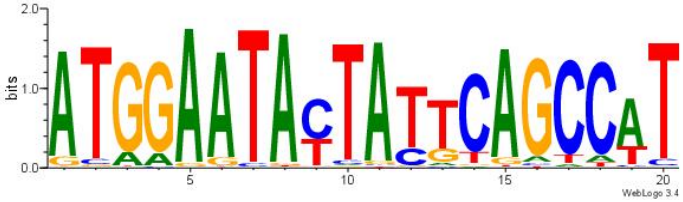

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

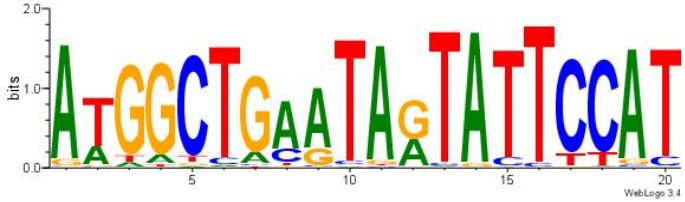

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 9
Number of overlap: 11
Similarity score: 0.0929161

Alignment:
CCTAGATTTCAGARGATGT
CTGGGATTACA--------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

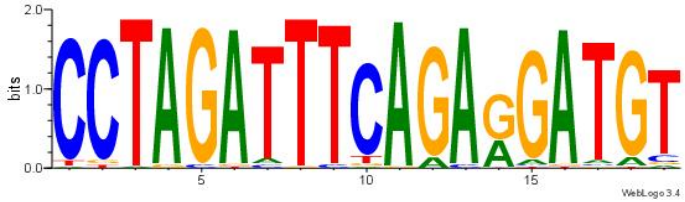

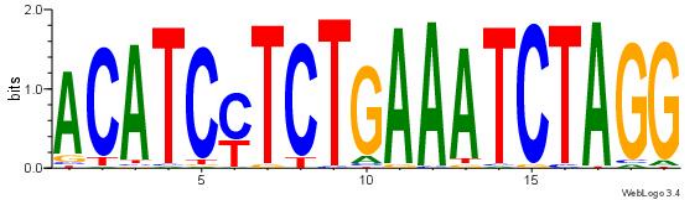

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0933582

Alignment:

```
GAATCCTGGGACAGCCTGT
-----CTGGGATTACA---
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

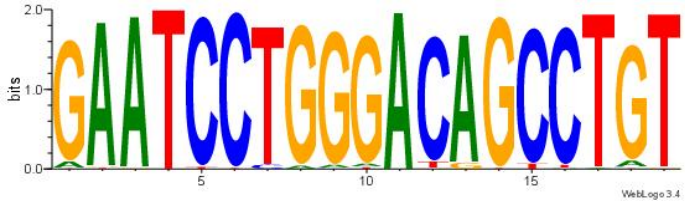

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

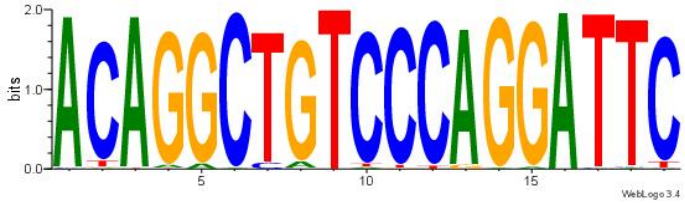

Dataset #:	1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0935864

Alignment:

```
CTTTCTGGGCTGGCCAAGG
----CTGGGATTACA----
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

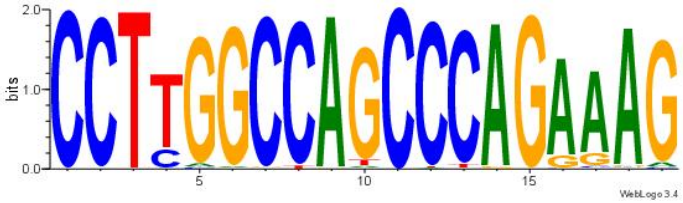

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

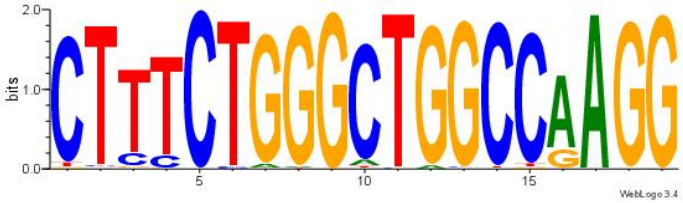

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0937437

Alignment:
AGCTGTGAGAAGAGGGCCAC
--CTGGGATTACA-------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

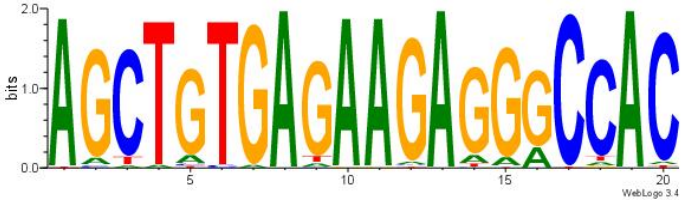

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

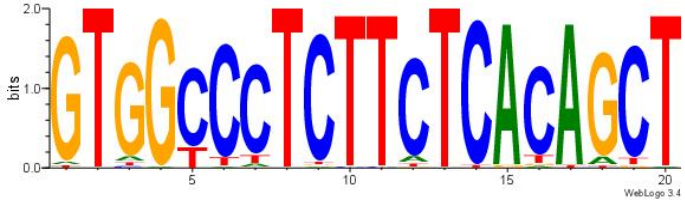

Dataset #: 1
Motif ID: 88
Motif name: Motif 88
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0951472

Alignment:
ACCGGGGCTGCA
-CTGGGATTACA

Original motif Consensus sequence: ACCGGGGCTGCA

Reverse complement motif Consensus sequence: TGCAGCCCCGGT

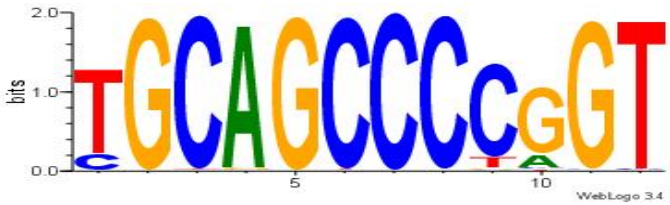

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0965545

Alignment:

```
CACCAGGAGATTATATCCCR
----CTGGGATTACA-----
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

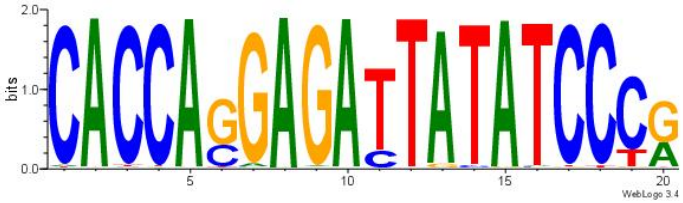

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

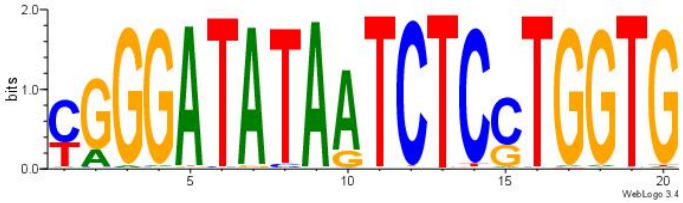

Dataset #: 1

Motif ID:	210
Motif name:	Motif 210
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.096841

Alignment:

```
CTCGGATGGTAA
CTGGGATTACA-
```

Original motif Consensus sequence: CTCGGATGGTAA

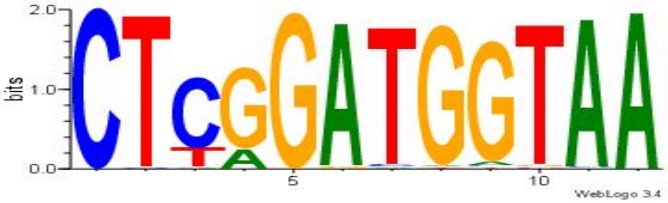

Reverse complement motif Consensus sequence: TTACCATCCGAG

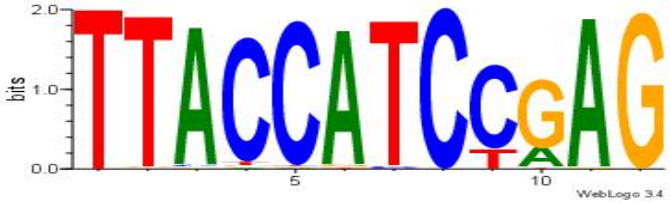

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0992526

Alignment:
CATCTGGCAGCCCA
---CTGGGATTACA

Original motif Consensus sequence: CATCTGGCAGCCCA

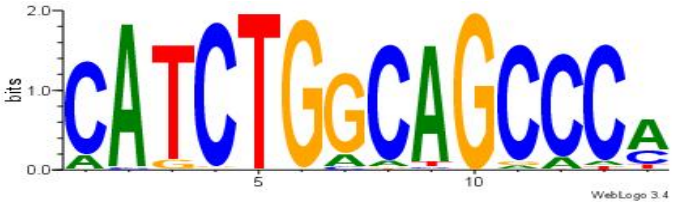

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

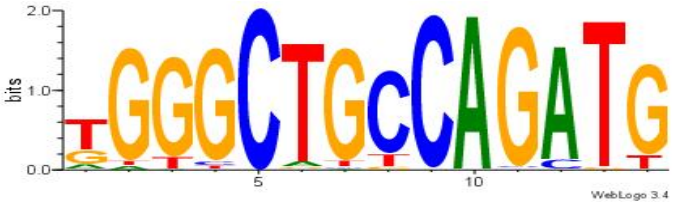

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0997744

Alignment:
ATCRCTTGAGSYCAGGAGKT
-----TGTAATCCCAG----

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

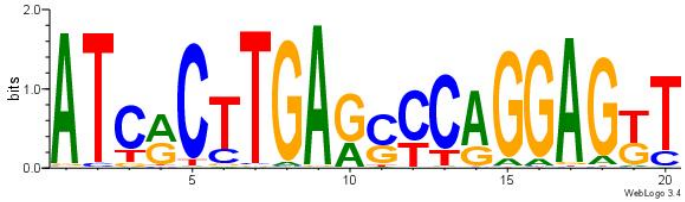

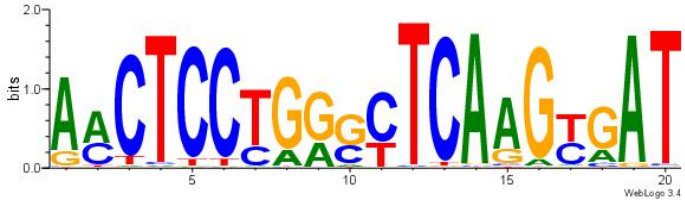

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.101331

Alignment:

```
TCTMKGCTCACTGC
--CTGGGATTACA-
```

Original motif Consensus sequence: GCAGTGAGCYRAGA

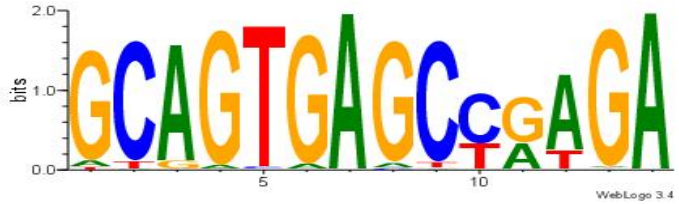

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

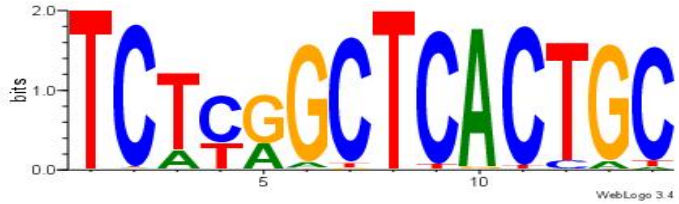

Dataset #:	1
Motif ID:	102

Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.101687

Alignment:

```
CTCATTTAATCCTCACAAC
----TGTAATCCCAG----
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

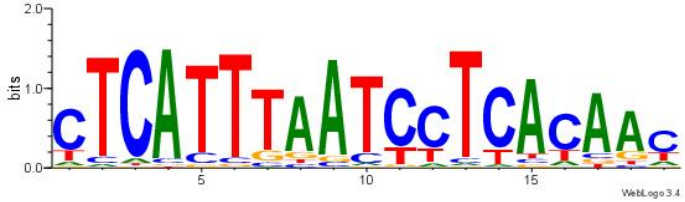

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

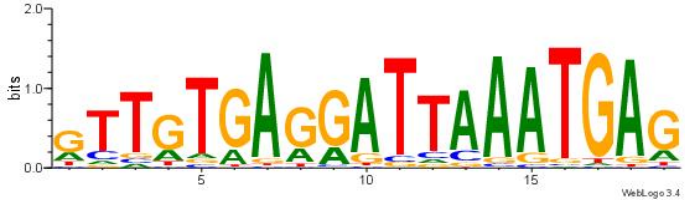

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.102448

Alignment:
CTGAGGACCTGAGGTCRTA
--------CTGGGATTACA

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

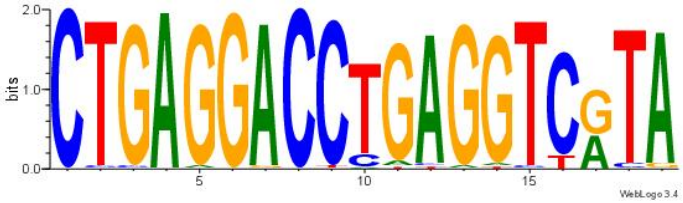

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

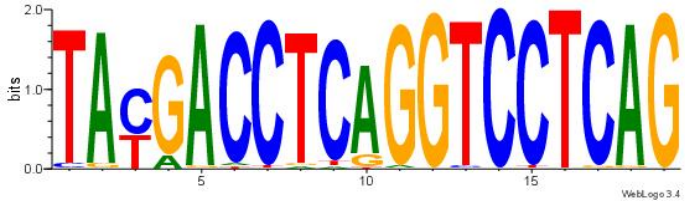

Dataset #:	1
Motif ID:	123
Motif name:	Motif 123
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.103306

Alignment:
CTCAGACTGCT
CTGGGATTACA

Original motif Consensus sequence: AGCAGTCTGAG

Reverse complement motif Consensus sequence: CTCAGACTGCT

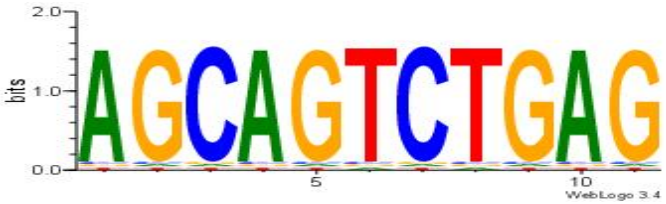

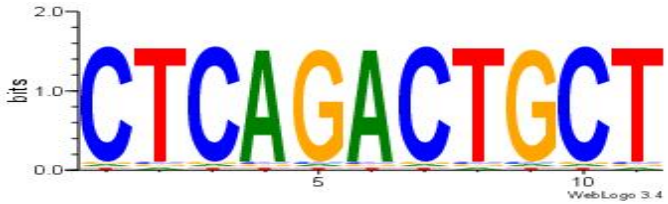

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.103306

Alignment:

```
GGTGATTTCTG
TGTAATCCCAG
```

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

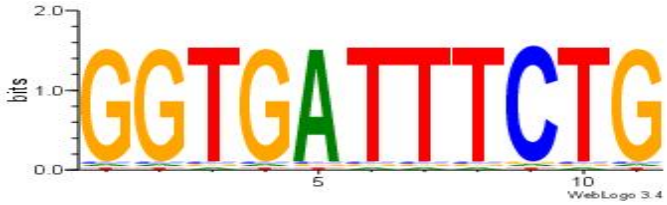

Dataset #:	1
Motif ID:	21

Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.106037

Alignment:

```
GCCGTTTKTTAAGCCCGTY
-TGTAATCCCAG-------
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

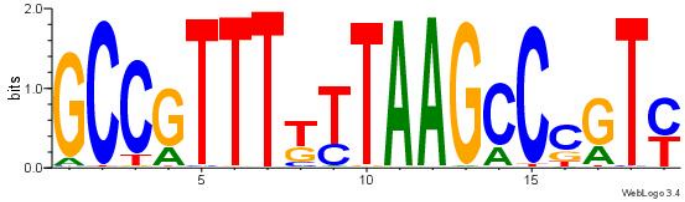

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

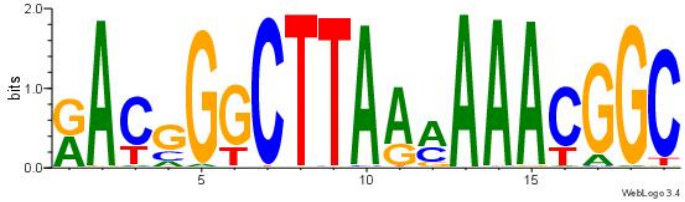

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.106879

Alignment:
GGGAGGTGTCTCCCAGTCAG
-----TGTAATCCCAG----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

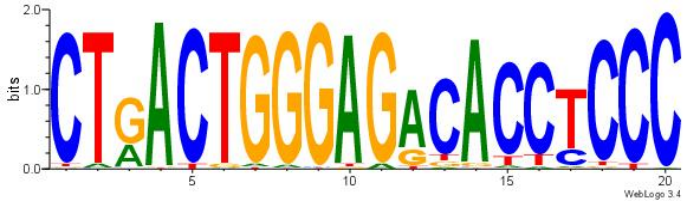

Reverse complement motif Consensus sequence:
GGGAGGTGTCTCCCAGTCAG

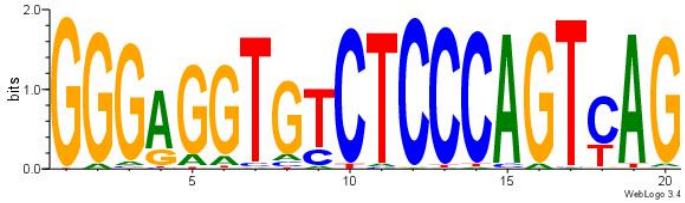

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.107094

Alignment:
CTTGCCCAAGGTCACACAGC
----CTGGGATTACA-----

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

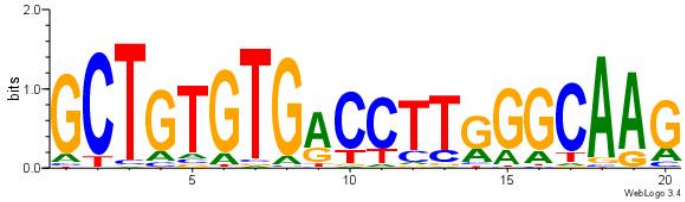

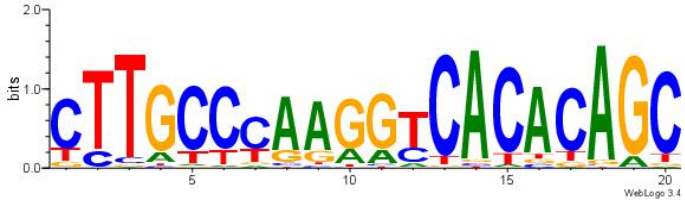

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.107327

Alignment:

```
GCACATGTAYCCYAGAACTT
----TGTAATCCCAG-----
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

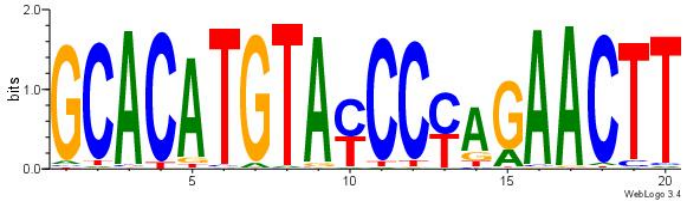

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

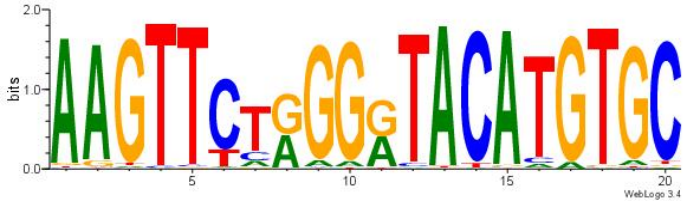

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.107656

Alignment:

```
AATCAACCCTGGYRATCAAT
--------CTGGGATTACA-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

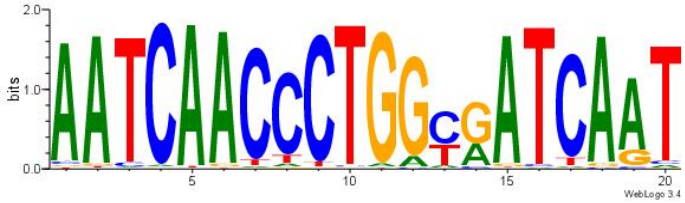

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

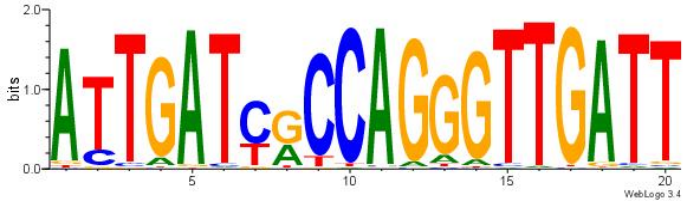

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.108209

Alignment:
GCTCCACCCAGTTCGAGCTT
TGTAATCCCAG---------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

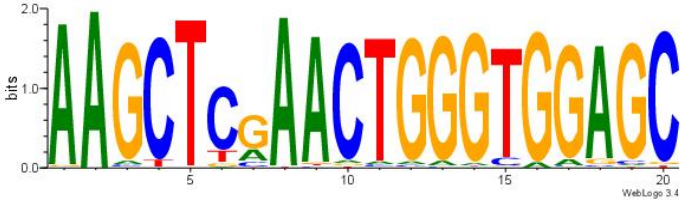

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

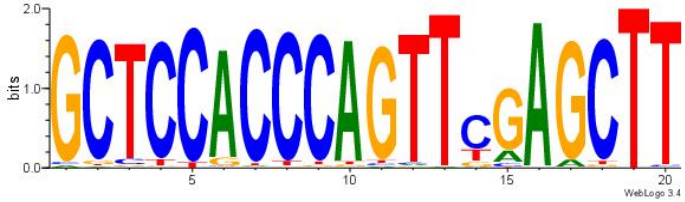

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 10
Number of overlap: 11
Similarity score: 0.108855

Alignment:
GCTGGAGTGCAGTGGCRYGA
CTGGGATTACA---------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

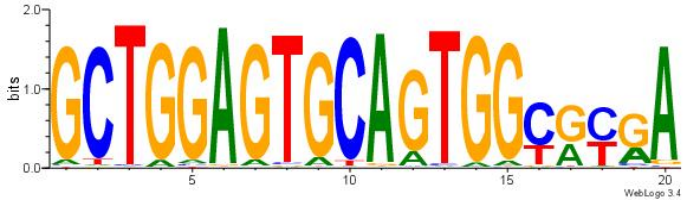

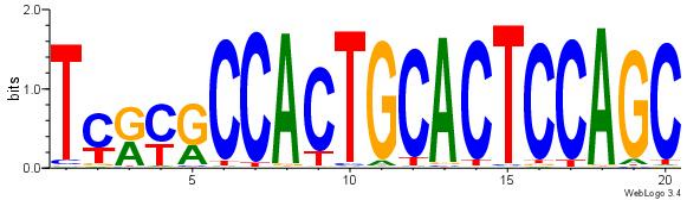

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.108894

Alignment:

```
CATTAGATTCTCATAGGA
----TGTAATCCCAG---
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

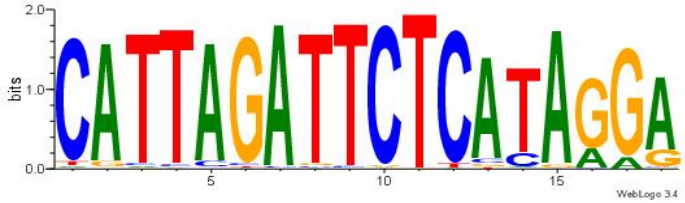

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

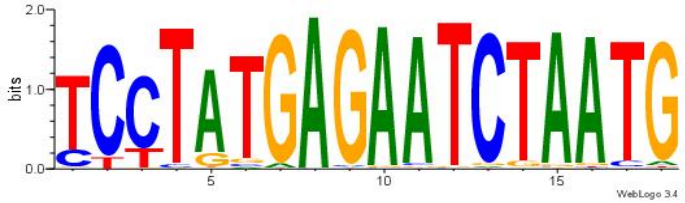

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.109048

Alignment:

```
CTCAGTGTTAATCTCCTGTC
---TGTAATCCCAG------
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

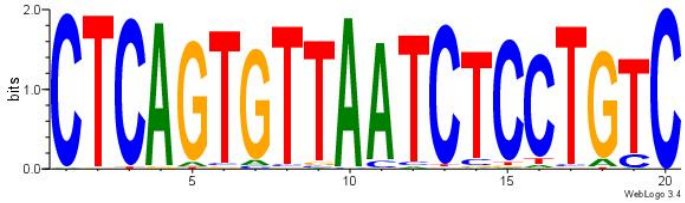

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

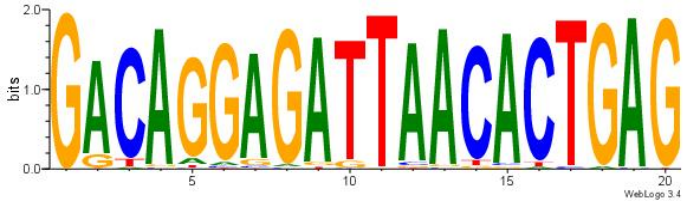

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11

Similarity score: 0.1092

Alignment:
CCCAAATCTCATSTTGAAT
-------TGTAATCCCAG-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

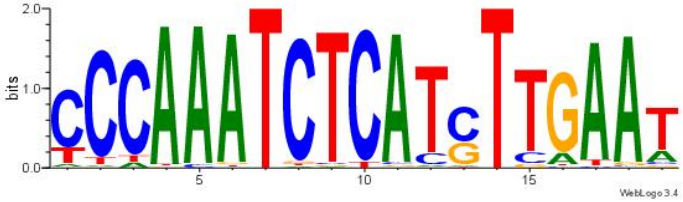

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

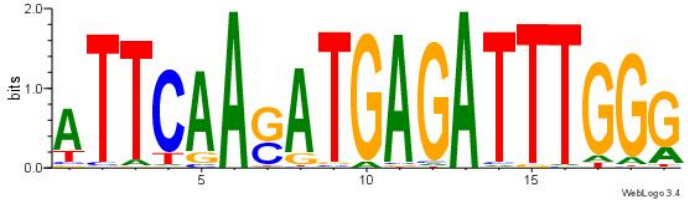

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.10963

Alignment:
AAGACCTTCCAGTGGGACAA
--------TGTAATCCCAG-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

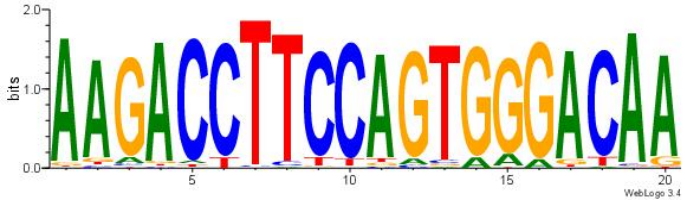

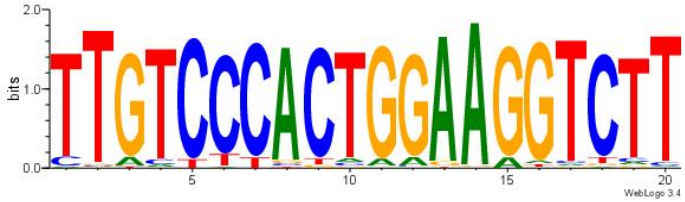

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.109878

Alignment:

```
CCAAGGTCACA
CTGGGATTACA
```

Original motif Consensus sequence: CCAAGGTCACA

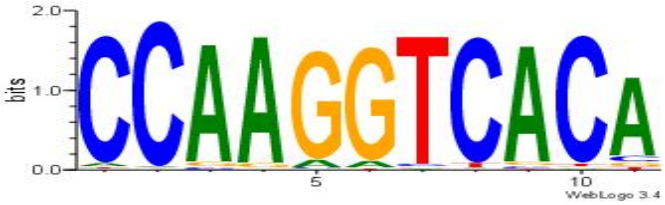

Reverse complement motif Consensus sequence: TGTGACCTTGG

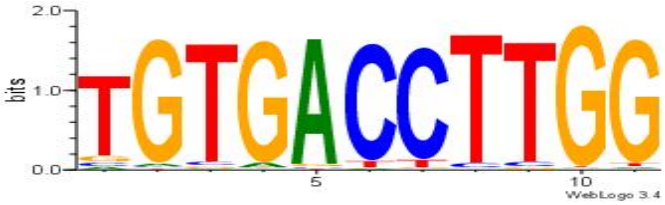

Dataset #:	1
Motif ID:	133

Motif name:	Motif 133
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.109887

Alignment:

```
TGGGGACMCAG
TGTAATCCCAG
```

Original motif Consensus sequence: CTGYGTCCCCA

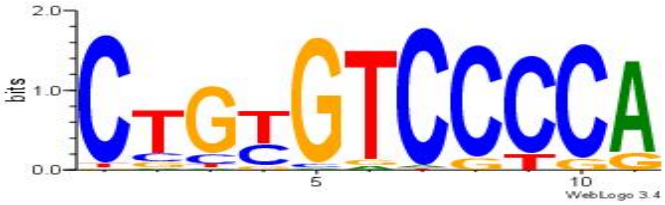

Reverse complement motif Consensus sequence: TGGGGACMCAG

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.110077

Alignment:
ATAGGAATGCTTGTGATTTT
--TGTAATCCCAG-------

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

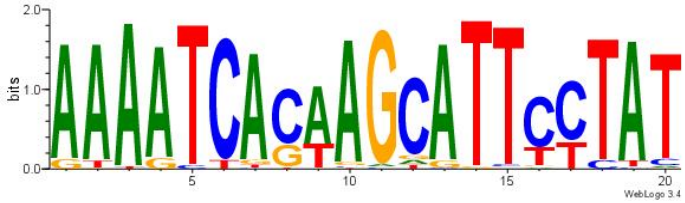

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

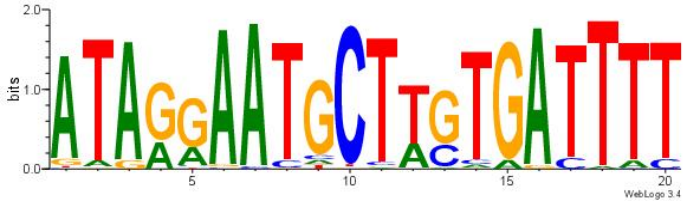

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.110155

Alignment:
GMTTAGCTCCCACTTA
--TGTAATCCCAG---

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence:
GMTTAGCTCCCACTTA

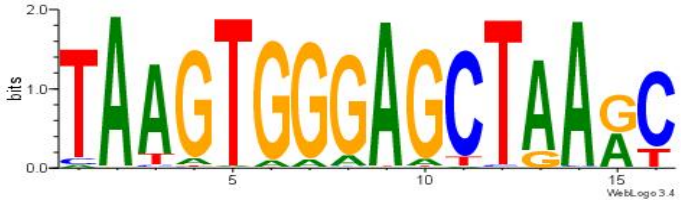

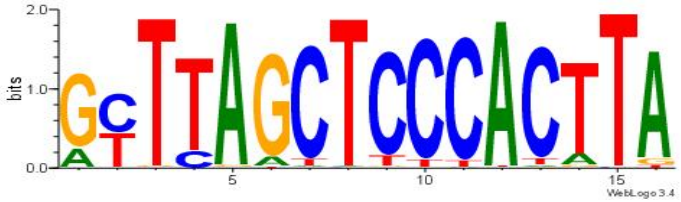

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.110683

Alignment:

```
TGATACCCAGGCAAACAG
------CTGGGATTACA-
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

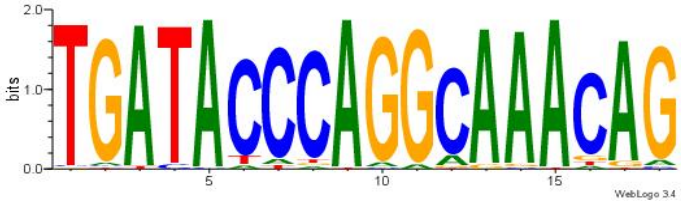

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

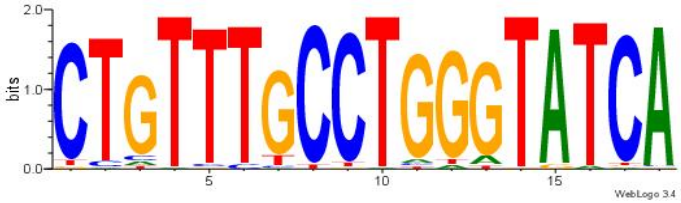

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.110722

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
--TGTAATCCCAG-------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

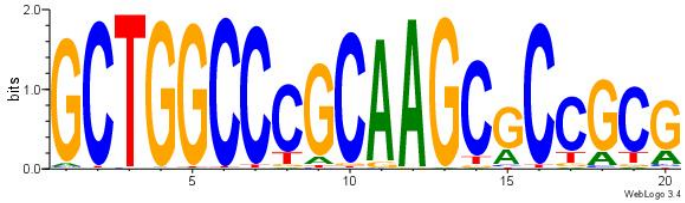

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

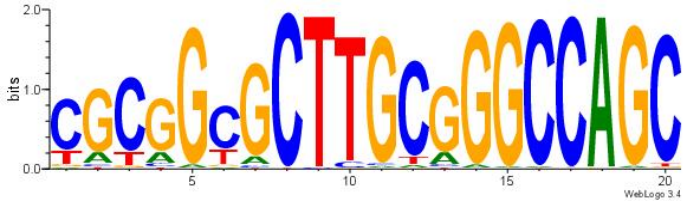

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.110794

Alignment:
TTTGTACCCATTA
TGTAATCCCAG--

Original motif Consensus sequence: TAATGGGTACAAA

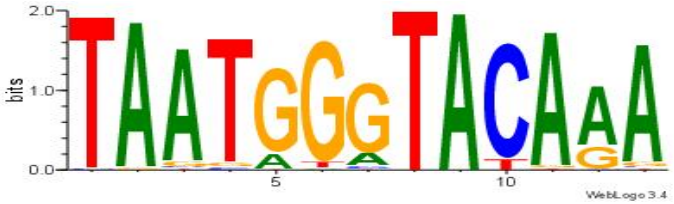

Reverse complement motif Consensus sequence: TTTGTACCCATTA

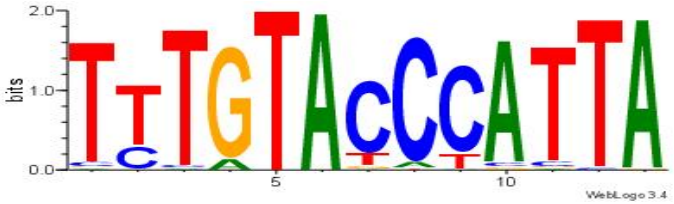

Dataset #: 1 Motif ID: 344 Motif name: Motif 344

Original motif Consensus sequence: CATAGGAGATGAC

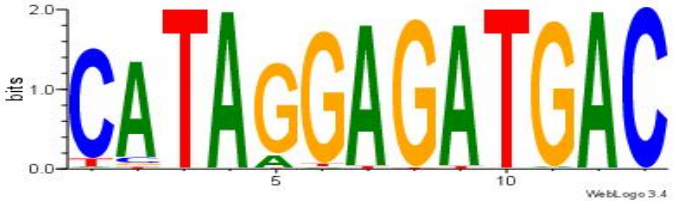

Reverse complement motif Consensus sequence: GTCATCTCCTATG

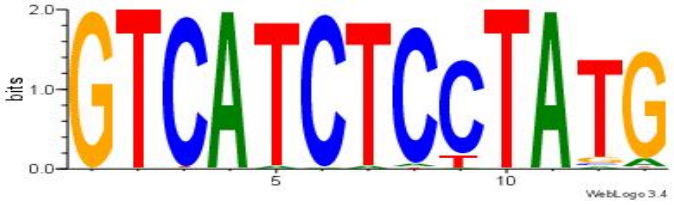

Best Matches for Motif ID 344 (Highest to Lowest)

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

Position number:	7
Number of overlap:	13
Similarity score:	0.0765815

Alignment:

```
GCAAAKGACATGATYTCATT
-CATAGGAGATGAC------
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

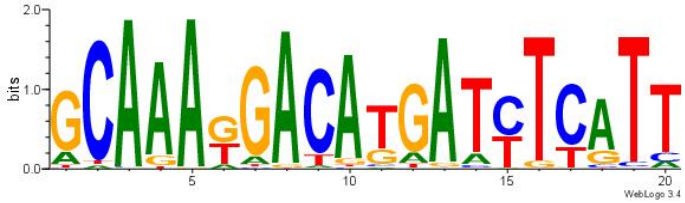

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

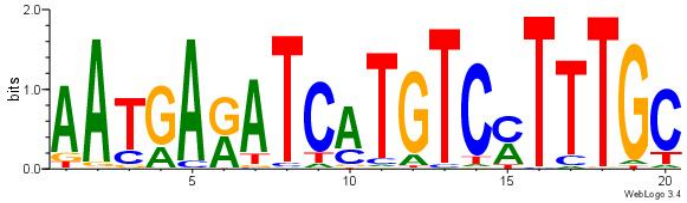

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0805293

Alignment:

```
GACAGGAGATTAACACTGAG
-------CATAGGAGATGAC
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

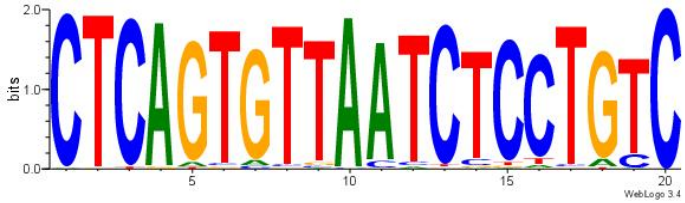

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

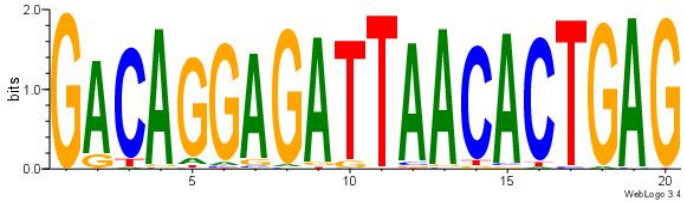

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0919284

Alignment:

```
ACTCCCTAGTGAGATGAACC
--CATAGGAGATGAC-----
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

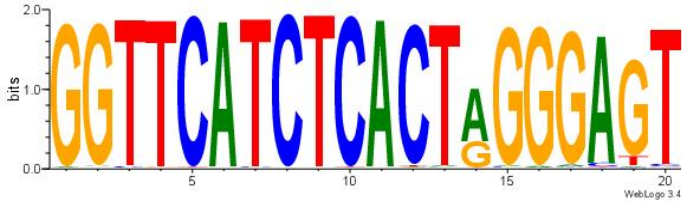

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

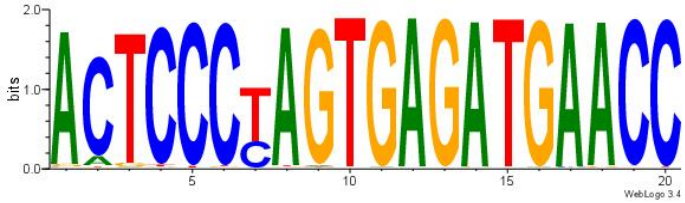

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0937575

Alignment:

```
GGCATCACGGATCCTACCAA
-------GTCATCTCCTATG
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

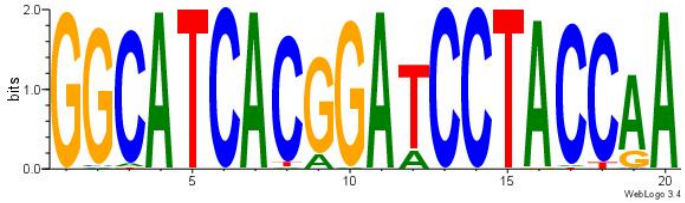

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

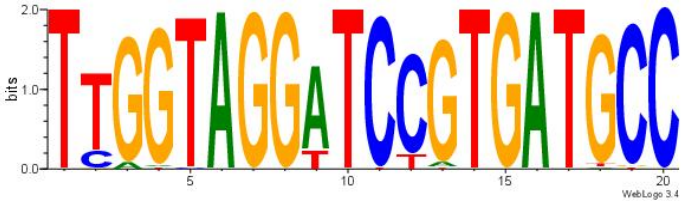

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.0944053

Alignment:
ACATCCCAGACGATGGGCG
-CATAGGAGATGAC-----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

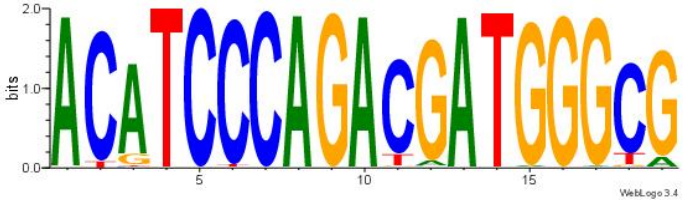

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

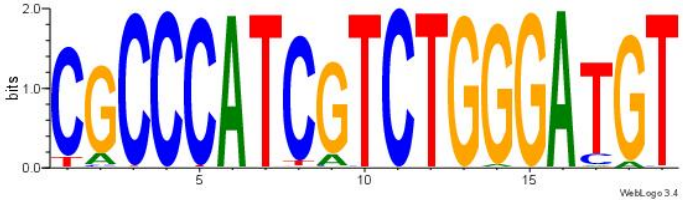

Dataset #: 1
Motif ID: 306
Motif name: Motif 306
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.0951825

Alignment:
CAAGCGCCAGCTCATGTC
-----GTCATCTCCTATG

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

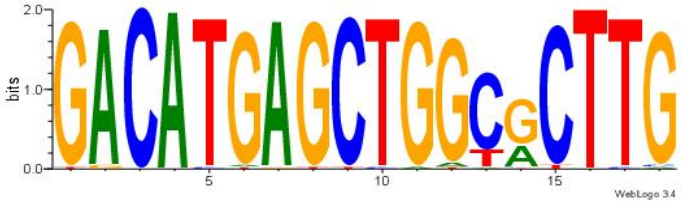

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

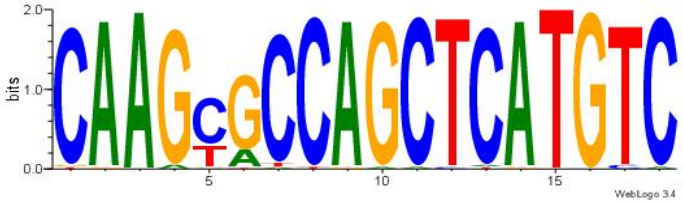

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0972697

Alignment:

```
CCCAAATCCTATAAAA
---GTCATCTCCTATG
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

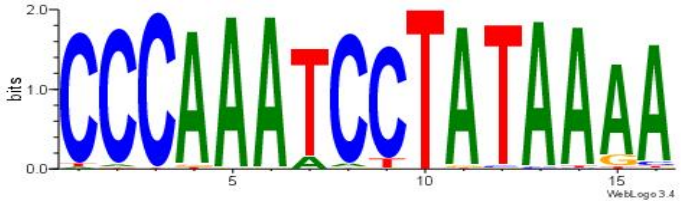

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

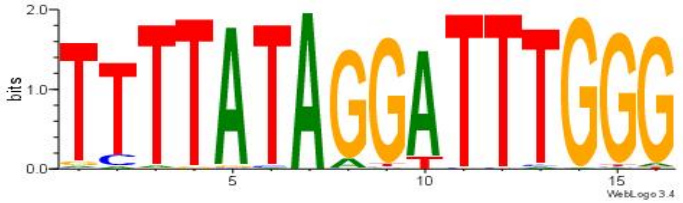

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.100978

Alignment:

```
TAMGACCTCAGGTCCTCAG
------GTCATCTCCTATG
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

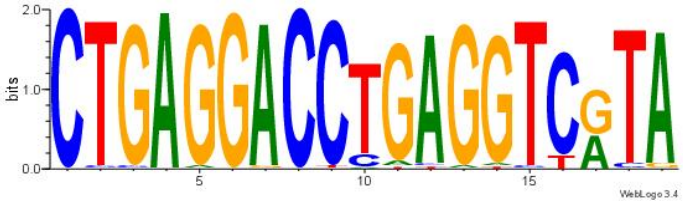

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

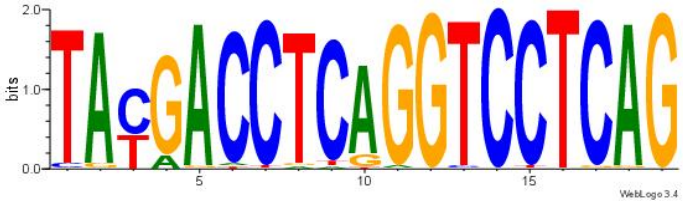

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 13
Similarity score: 0.101221

Alignment:
CCTGCCATTGCYSAGGCTTG
----GTCATCTCCTATG---

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

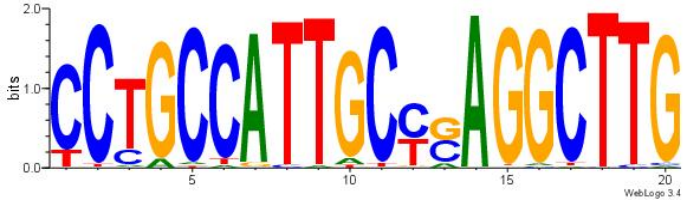

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

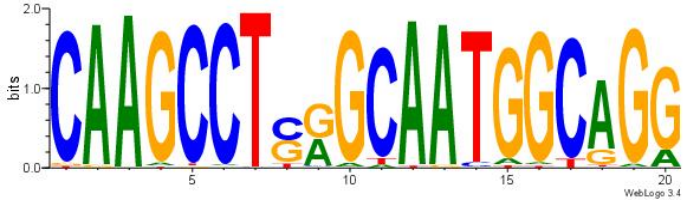

Dataset #: 1
Motif ID: 19
Motif name: Motif 19
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.101538

Alignment:
MGGGATATAATCTCCTGGTG
------GTCATCTCCTATG-

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

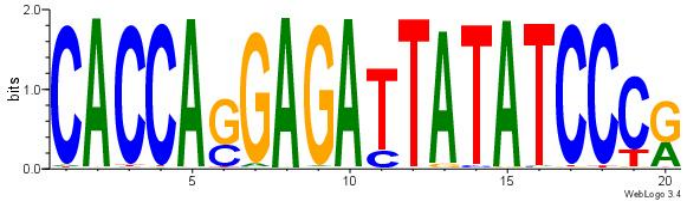

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

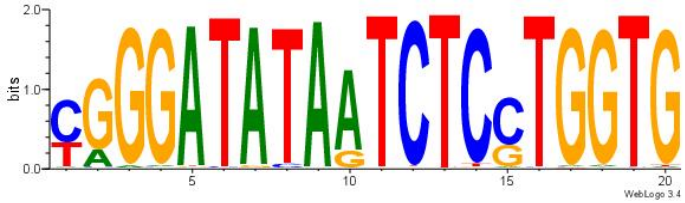

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.104552

Alignment:

```
KACGGGCTTAARAAACGGC
CATAGGAGATGAC------
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

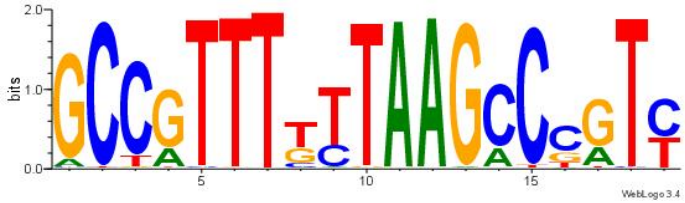

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

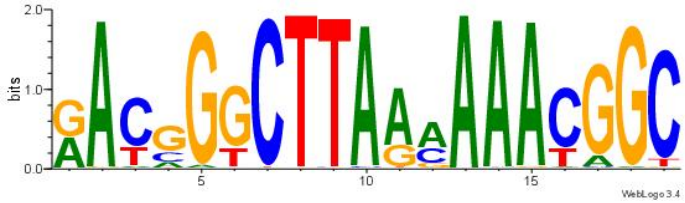

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.106954

Alignment:

```
ACATCMTCTGAAATCTAGG
--GTCATCTCCTATG----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

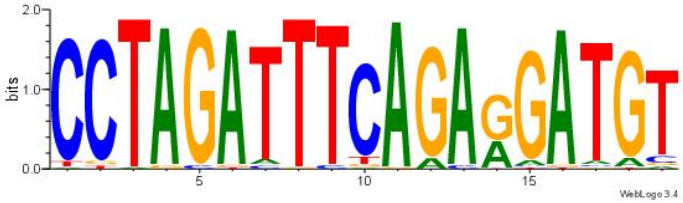

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

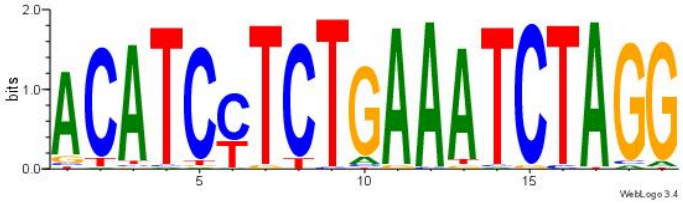

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

Number of overlap: 13
Similarity score: 0.107893

Alignment:
GGATCCACTGGGTGAAGCCA
------CATAGGAGATGAC-

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

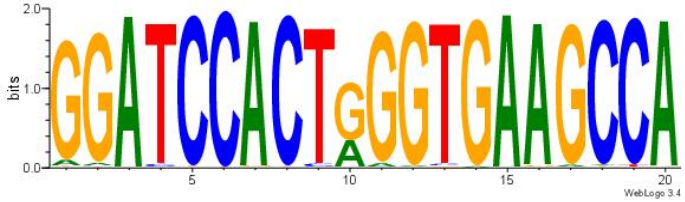

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

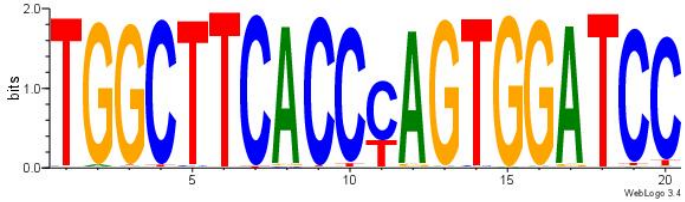

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.108084

Alignment:
AAGACGGGTGATTTCTG
--CATAGGAGATGAC--

Original motif Consensus sequence: CAGAAATCACCCGTCTT

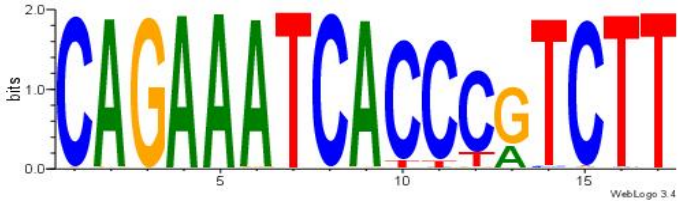

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

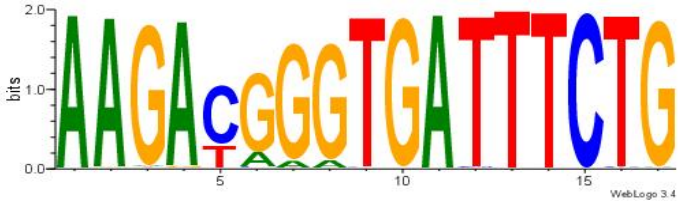

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.108371

Alignment:

```
TAAGTGGGAGCTAARC
--CATAGGAGATGAC-
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

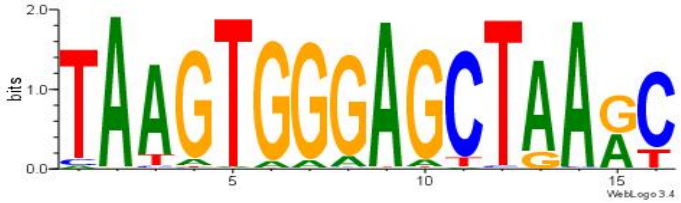

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

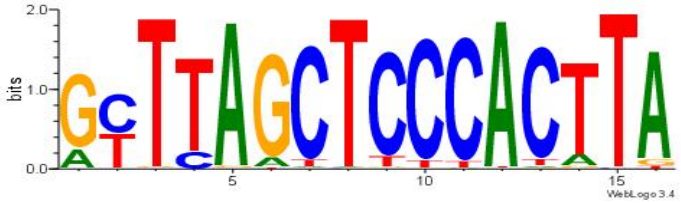

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.109103

Alignment:

```
GGTGCCCCTCTGGGACRAA
------CATAGGAGATGAC
```

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

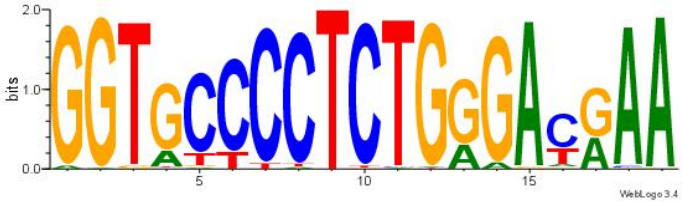

Reverse complement motif Consensus sequence: TTMGTCCCAGAGGGGCACC

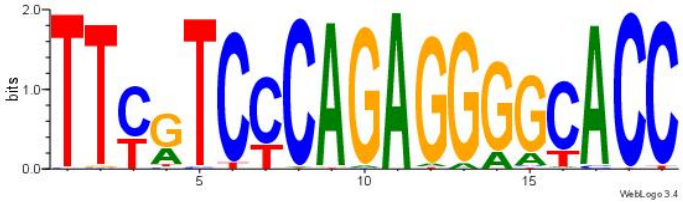

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.109302

Alignment:
TCAATGGGCTCCCAAATG
-----GTCATCTCCTATG

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

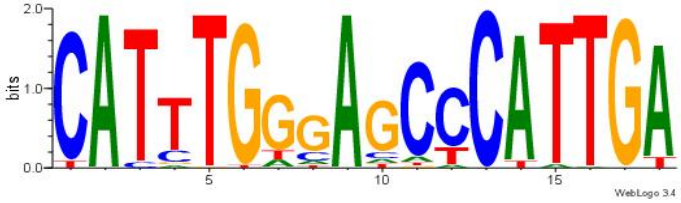

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

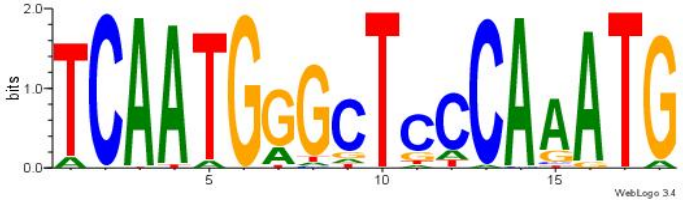

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.109411

Alignment:
GTGGCCCTCTTCTCACAGCT
------GTCATCTCCTATG-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

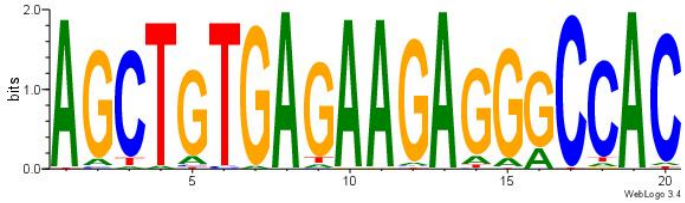

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

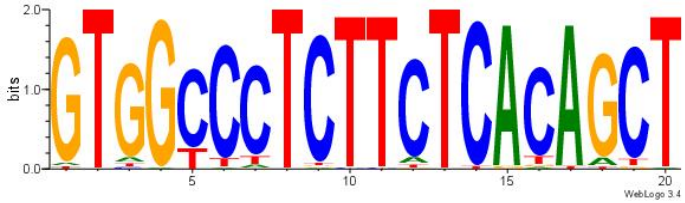

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.109622

Alignment:

```
TGTGAAGAGACCACCAA
-CATAGGAGATGAC---
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

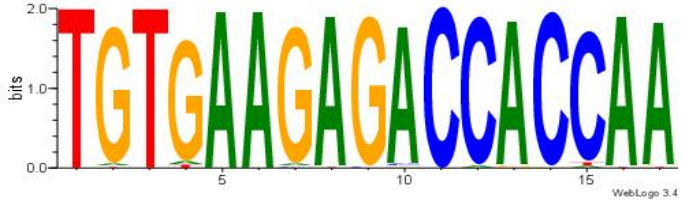

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

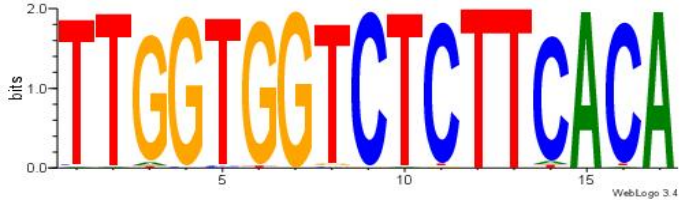

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110887

Alignment:

```
CATTAGATTCTCATAGGA
-GTCATCTCCTATG----
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

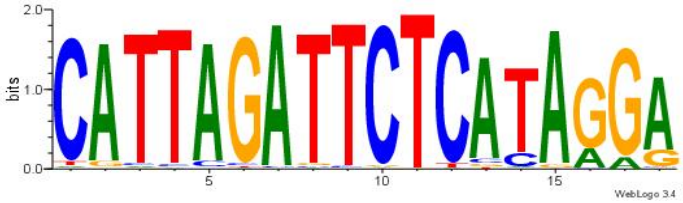

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

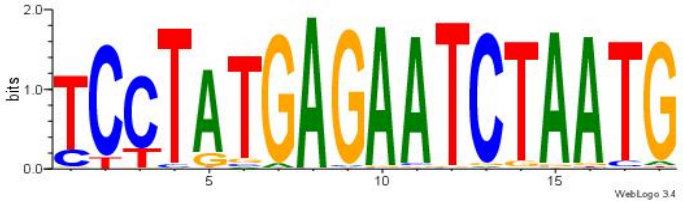

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 13
Similarity score: 0.111008

Alignment:
ATTGATMKCCAGGGTTGATT
-GTCATCTCCTATG------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

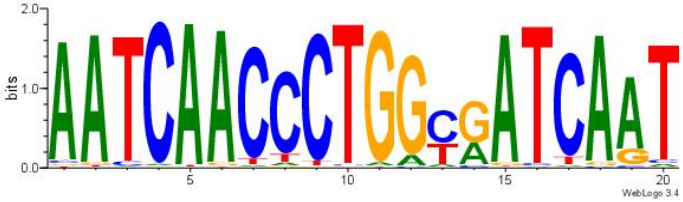

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

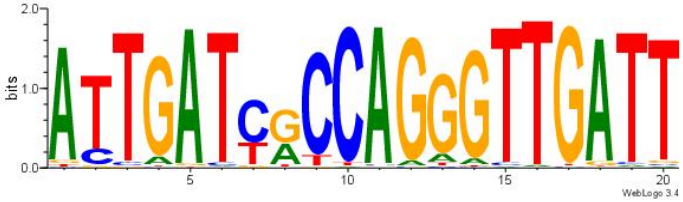

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.111651

Alignment:
AATGAGTTAAGACTTTG
CATAGGAGATGAC----

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

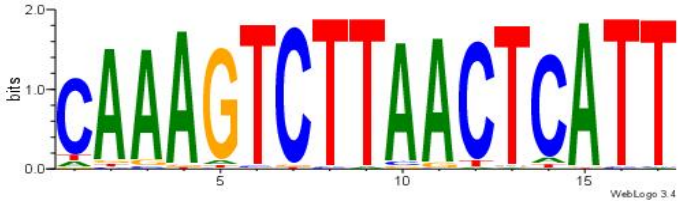

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.112775

Alignment:

```
KACATTGATTTTGTATC
----GTCATCTCCTATG
```

Original motif Consensus sequence: GATACAAAATCAATGTR

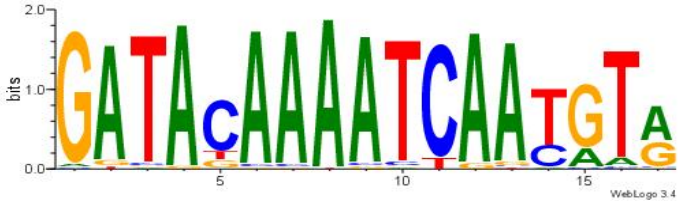

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

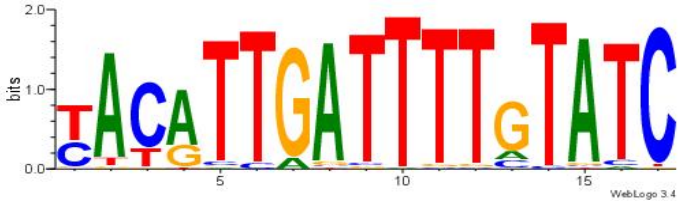

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.112931

Alignment:

```
ATTCAASATGAGATTTGGG
--CATAGGAGATGAC----
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

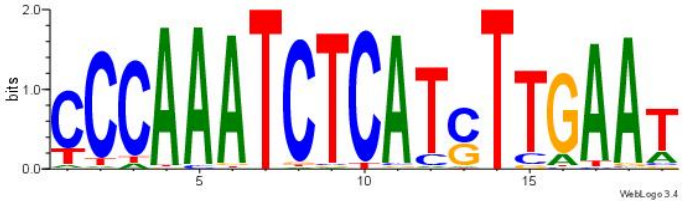

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

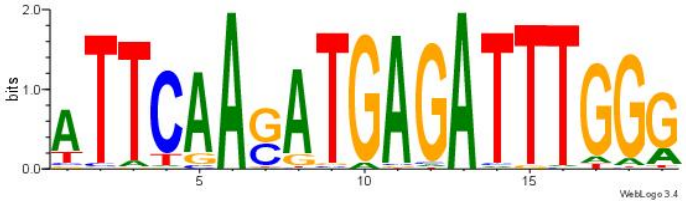

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

Number of overlap: 13
Similarity score: 0.113624

Alignment:
TCCAAATGGGAGAAATTGGC
--CATAGGAGATGAC-----

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

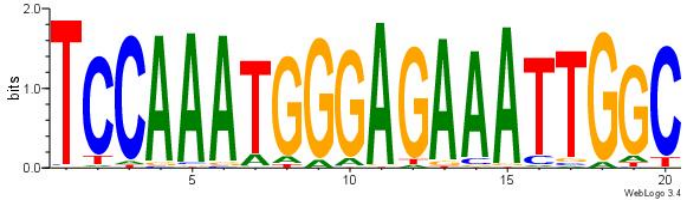

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

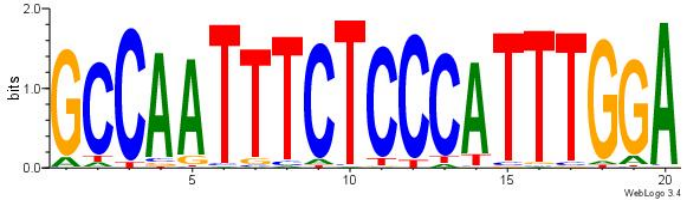

Dataset #: 1
Motif ID: 214
Motif name: Motif 214
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.11448

Alignment:
CTCAGGAATGGAAAACC
CATAGGAGATGAC----

Original motif Consensus sequence: CTCAGGAATGGAAAACC

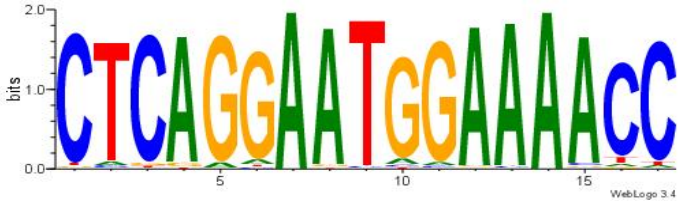

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

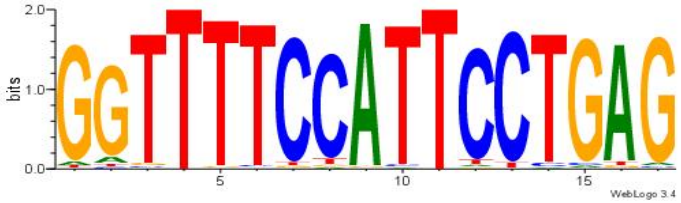

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.114578

Alignment:

```
GCGCTCKTCGGGGAGGCTCG
--CATAGGAGATGAC-----
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

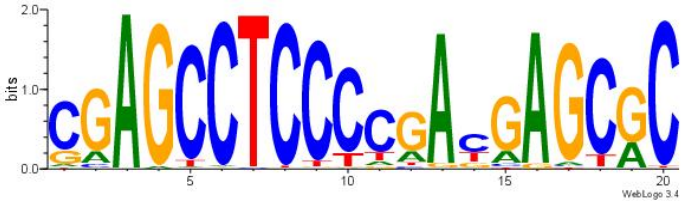

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

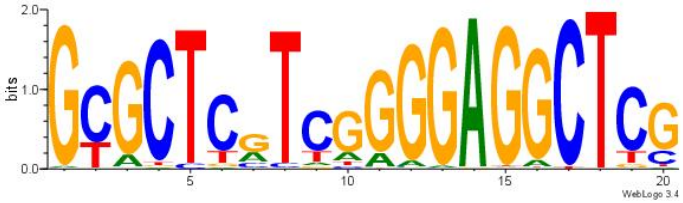

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.114644

Alignment:

```
GGCACTCCCTAGTG
GTCATCTCCTATG-
```

Original motif Consensus sequence: CACTAGGGAGTGCC

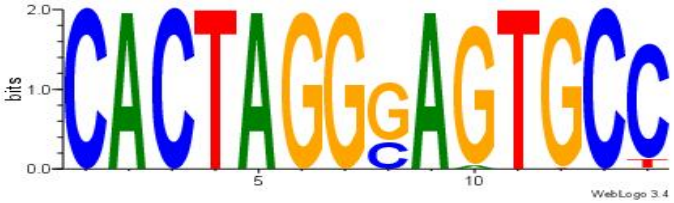

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

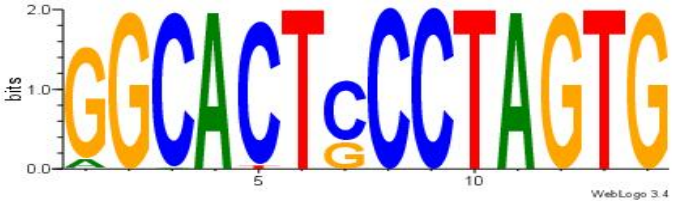

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.11465

Alignment:
ATCTGACAGGAGGYRGAGCT
----CATAGGAGATGAC---

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

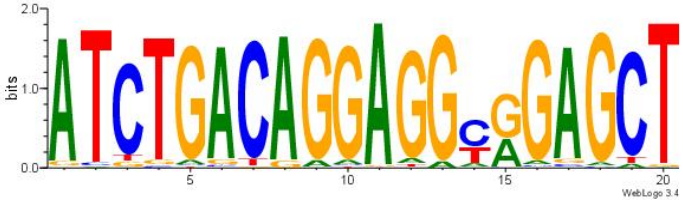

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

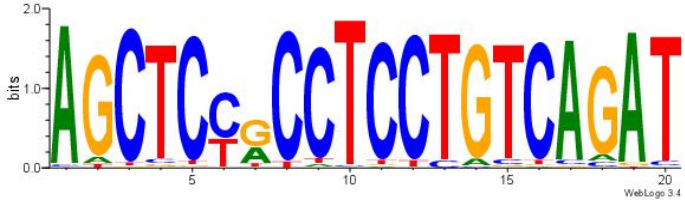

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.114677

Alignment:
VMATTTAKTGAGCACCTACT
-------GTCATCTCCTATG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

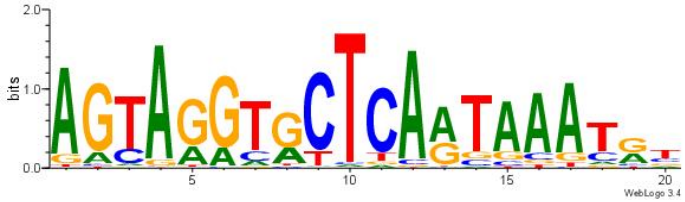

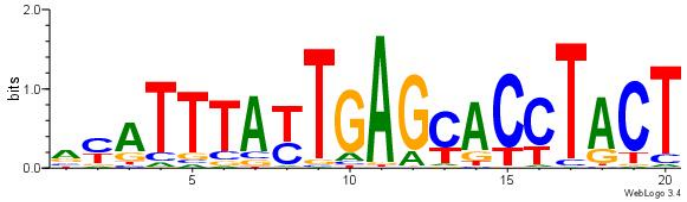

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.115218

Alignment:

```
ACTCAGCCCRCCTGCACCC
-----GTCATCTCCTATG-
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

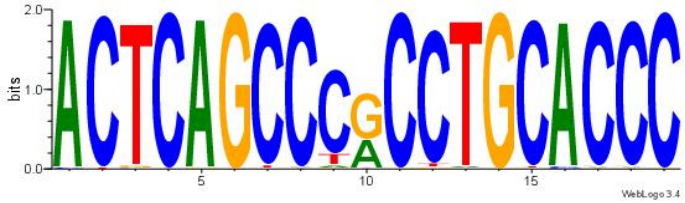

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

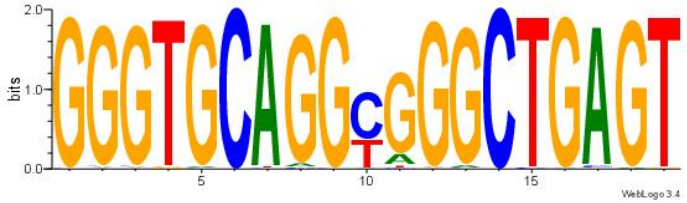

Dataset #: 1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.115376

Alignment:

```
CACCAGACTCAGGAGCCCAG
CATAGGAGATGAC-------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

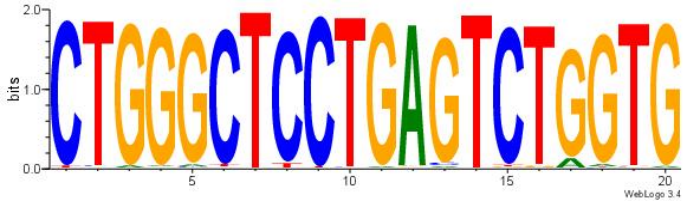

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

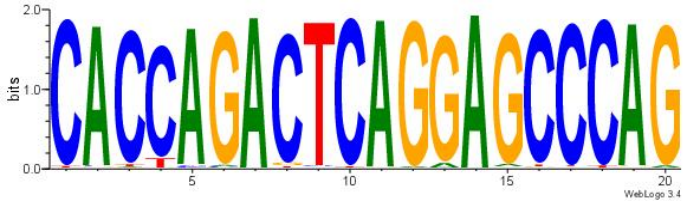

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.11538

Alignment:
CAAGGGTATAYGAGTAGCTG
------CATAGGAGATGAC-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

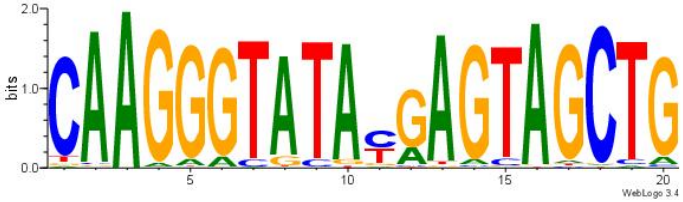

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

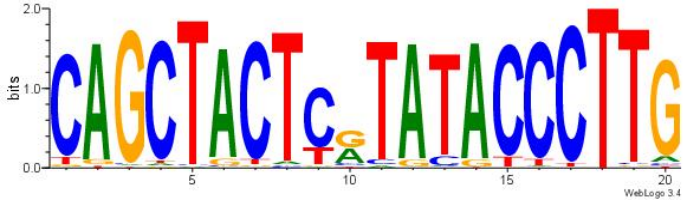

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 13
Similarity score: 0.115559

Alignment:
AGGGATCTAGGTTGCR
--GTCATCTCCTATG-

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

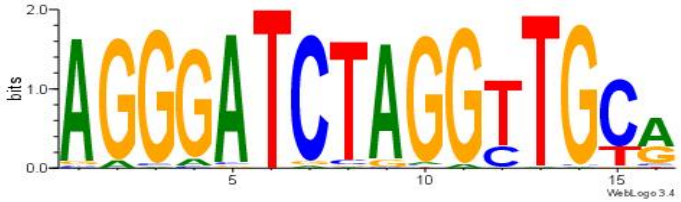

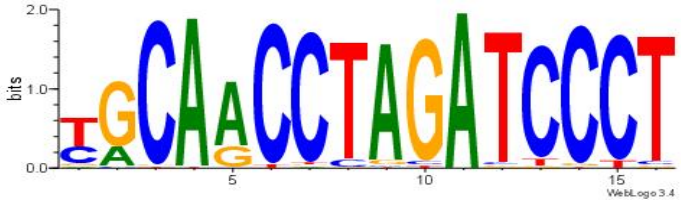

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.115866

Alignment:

```
GACTTCAAGAATGAAGCCG
------GTCATCTCCTATG
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

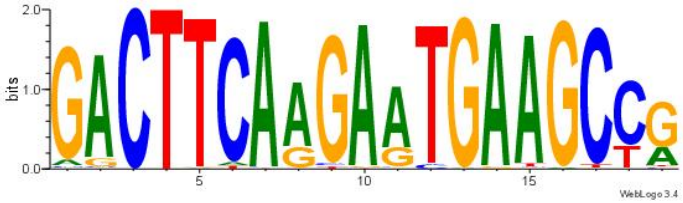

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

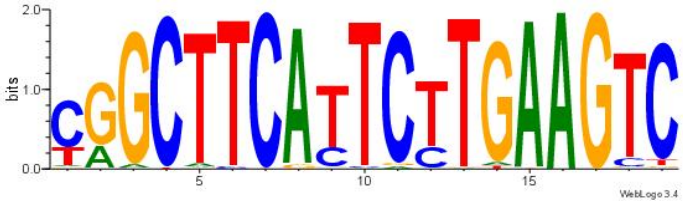

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.117011

Alignment:

```
GTAGACKGGAGCTGTTCCT
---CATAGGAGATGAC---
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

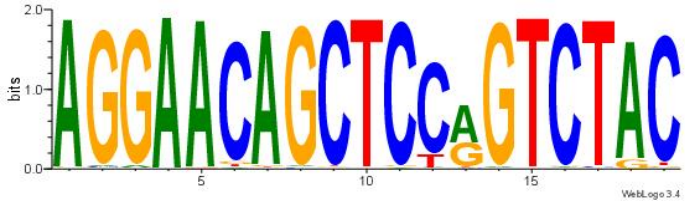

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

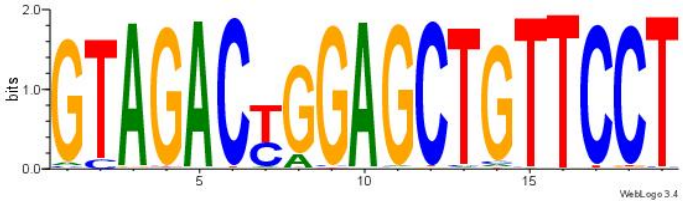

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.117023

Alignment:
ACAAGGCAAGTCCCTTCY
-GTCATCTCCTATG----

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

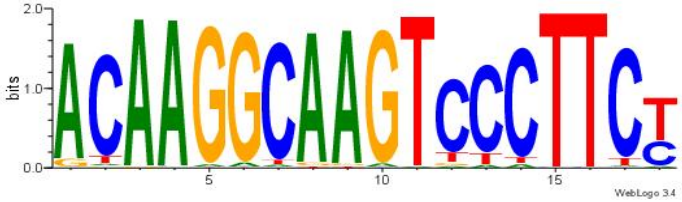

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

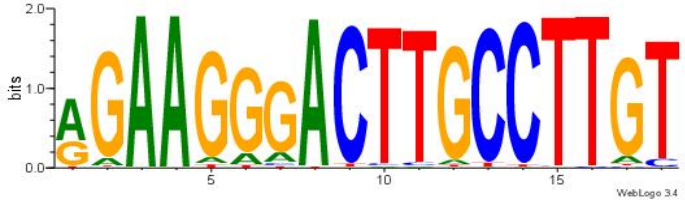

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.117686

Alignment:
GGGAGGTGTCTCCCAGTCAG
----GTCATCTCCTATG---

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

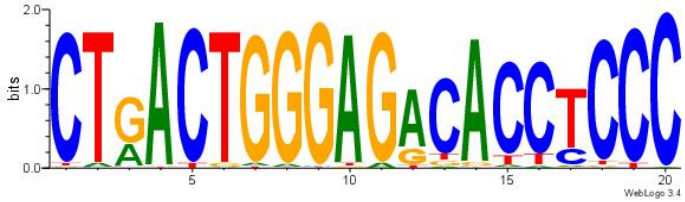

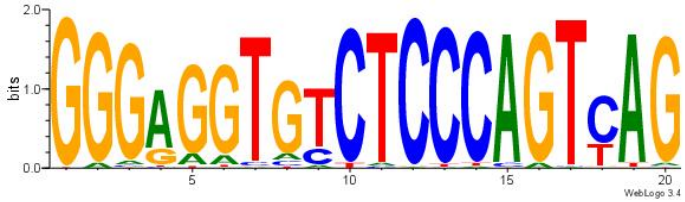

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.117859

Alignment:

```
CTAGACATAAAGGTTCTCCA
-----CATAGGAGATGAC--
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

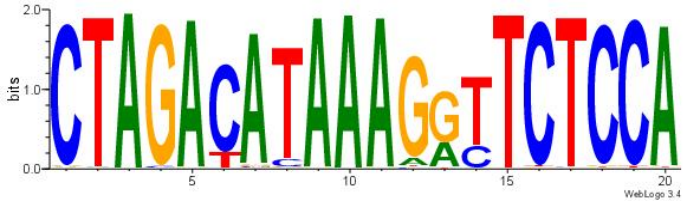

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

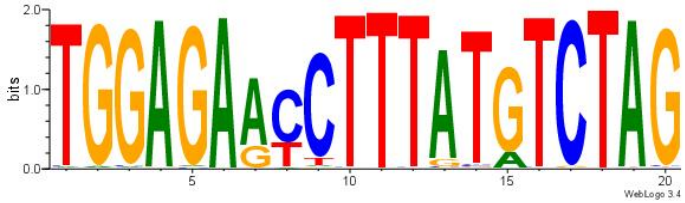

Dataset #:	1

Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.118689

Alignment:

```
GCAGAGGCGCTCCT
-CATAGGAGATGAC
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

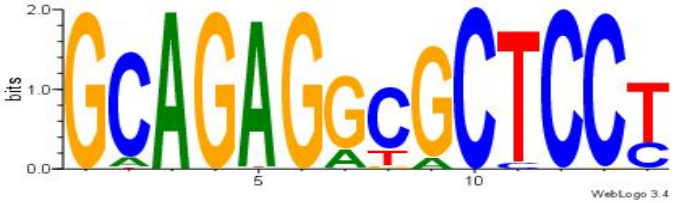

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

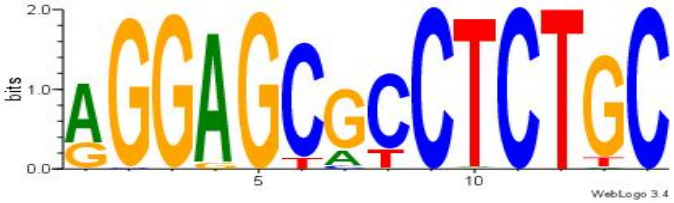

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.11905

Alignment:
AGGAGCGCCTCTKCCCGGC
-GTCATCTCCTATG-----

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

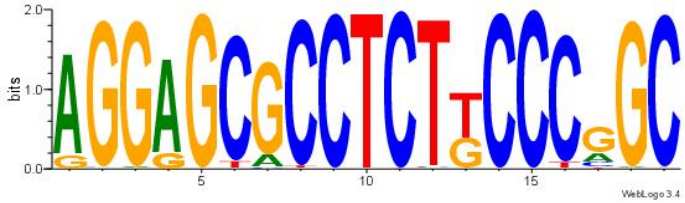

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

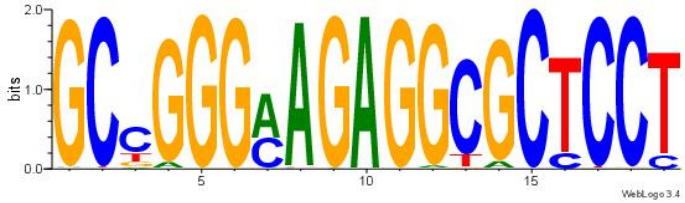

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.119996

Alignment:
AAAMAMMKMATGTTCTCACT
-CATAGGAGATGAC------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

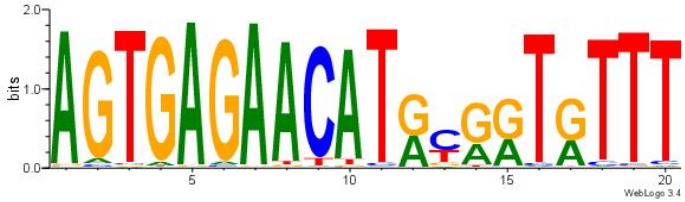

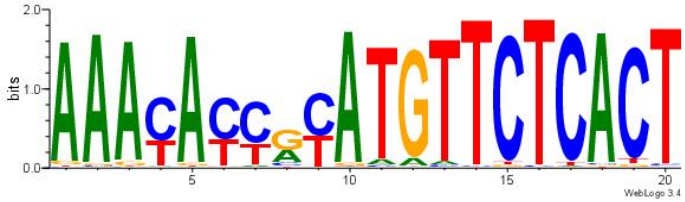

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.120216

Alignment:

```
CTCCTGACCTCGTGATC
GTCATCTCCTATG----
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

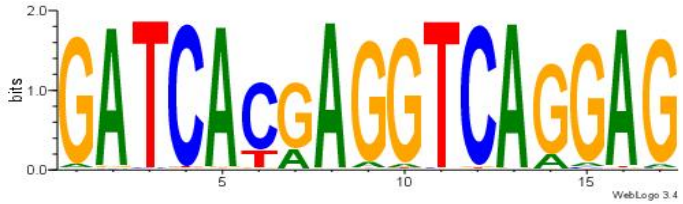

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

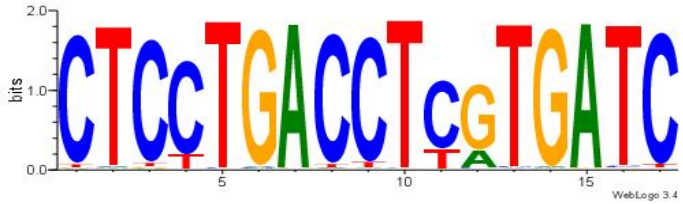

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.120849

Alignment:

```
GTAACACTCACCGCGARGGT
-GTCATCTCCTATG------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

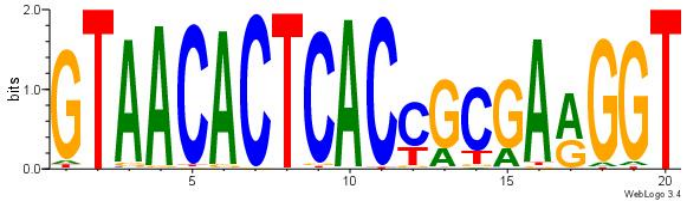

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

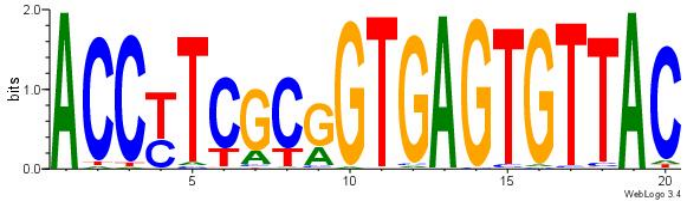

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.121233

Alignment:
CMTAGYACAGTGCCTGGCAC
--CATAGGAGATGAC-----

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

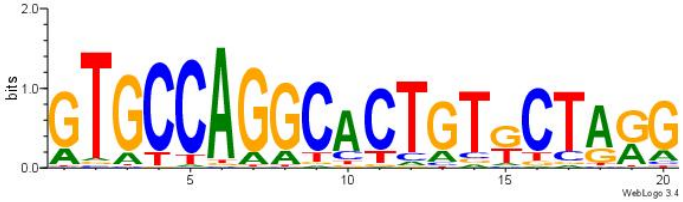

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

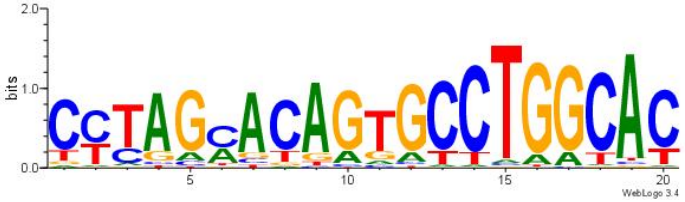

Dataset #: 1
Motif ID: 27
Motif name: Motif 27
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.121299

Alignment:
CGCCCCGTCTGGGAAGTG
CATAGGAGATGAC-----

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

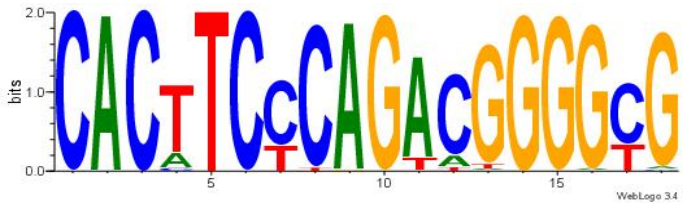

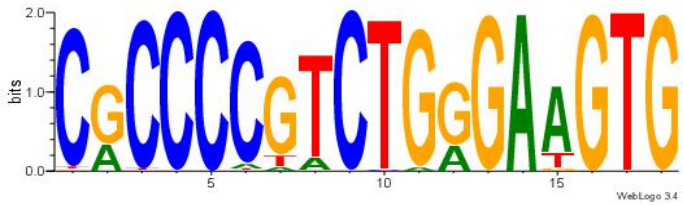

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.122359

Alignment:
GAAHCAACCKAAKTGTCCAT
---CATAGGAGATGAC----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

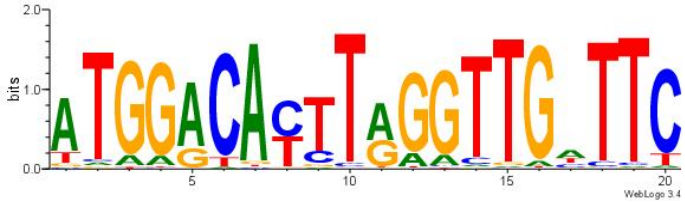

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

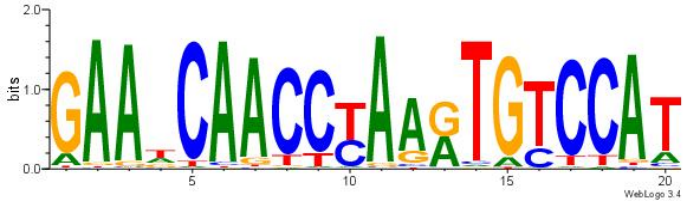

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.122686

Alignment:

```
AGAGCCAAATCATGARTGAA
---GTCATCTCCTATG----
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

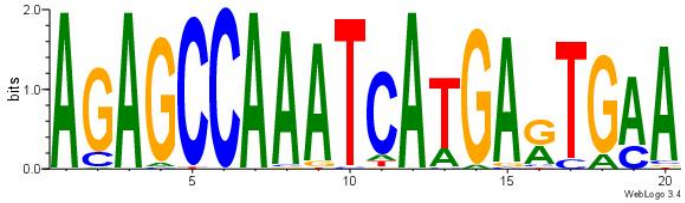

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

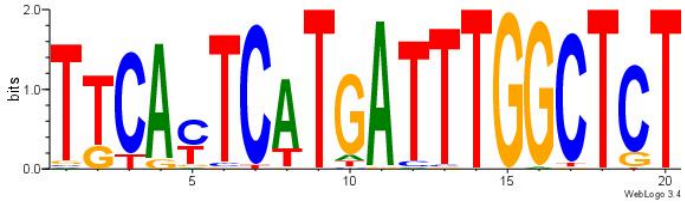

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.123024

Alignment:
ATCTCASAAATCACCACTA
-CATAGGAGATGAC-----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

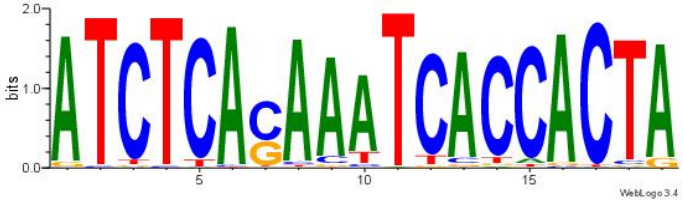

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

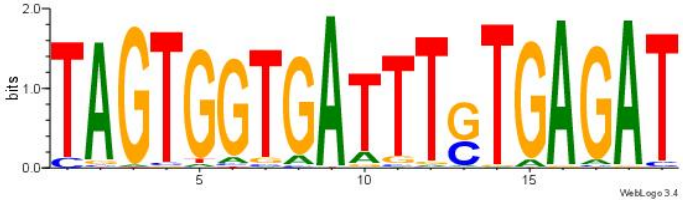

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.12328

Alignment:
AWTKKTGGTTKCCAGKGGCT
----GTCATCTCCTATG---

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

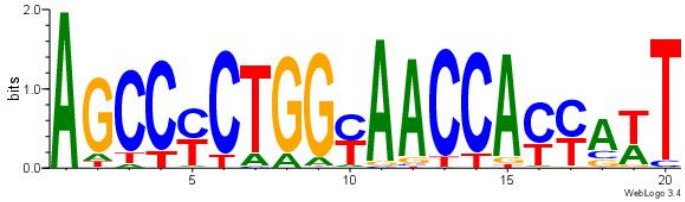

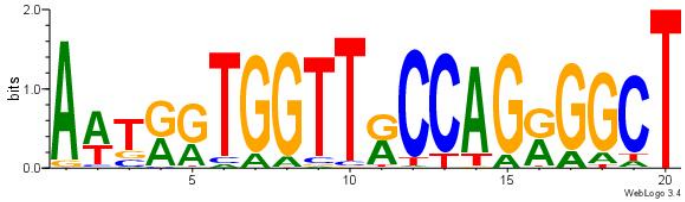

Dataset #: 1 **Motif ID: 345** **Motif name: Motif 345**

Original motif Consensus sequence: CTGGGAATCCAAC

Reverse complement motif Consensus sequence: GTTGGATTCCCAG

Best Matches for Motif ID 345 (Highest to Lowest)

Dataset #:	1
Motif ID:	4
Motif name:	Motif 4
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0624846

Alignment:

```
CCTGTAATCCCAGC
GTTGGATTCCCAG-
```

Original motif Consensus sequence: GCTGGGATTACAGG

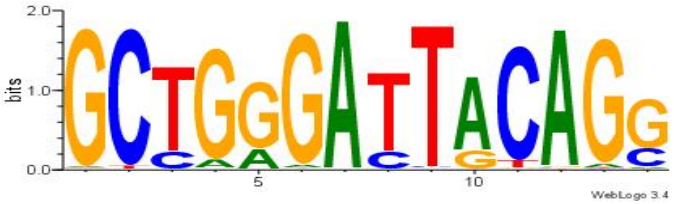

Reverse complement motif Consensus sequence: CCTGTAATCCCAG

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0631163

Alignment:

```
CATTAGATTCTCATAGGA
----GTTGGATTCCCAG-
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

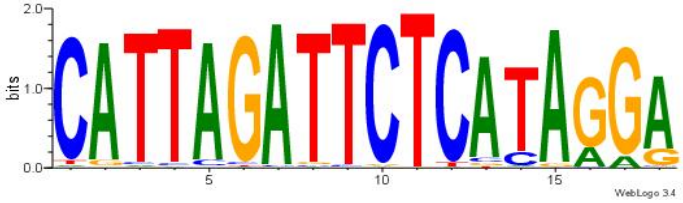

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

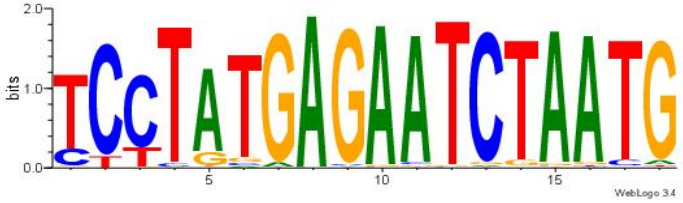

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.070058

Alignment:

```
ATGATCCAGCAATYCCACTH
-----CTGGGAATCCAAC--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

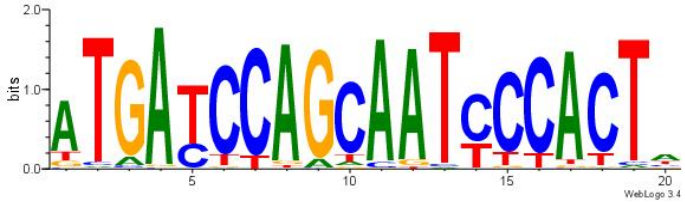

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

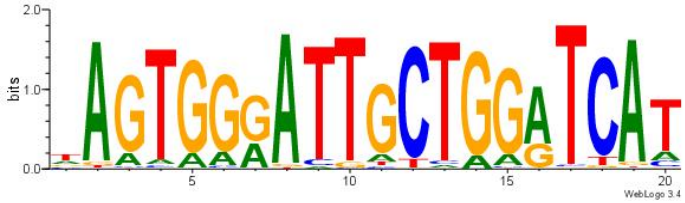

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.0766159

Alignment:
CCTTTGACTCCATGTC
--CTGGGAATCCAAC-

Original motif Consensus sequence: GACATGGAGTCAAAGG

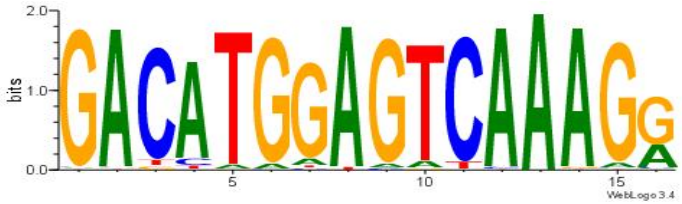

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

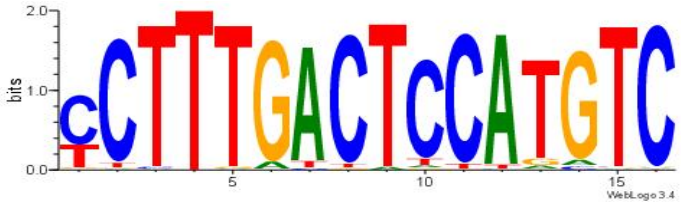

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.0805023

Alignment:
GCTGCARTCTCGGCACTTT
GTTGGATTCCCAG------

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

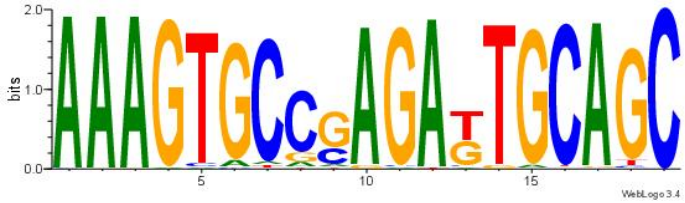

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

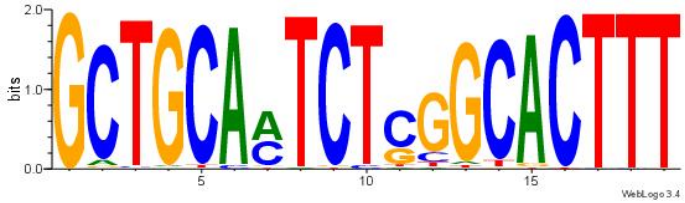

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0826011

Alignment:

```
AGGTTTGTTACATAGGTAWA
-----GTTGGATTCCCAG--
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

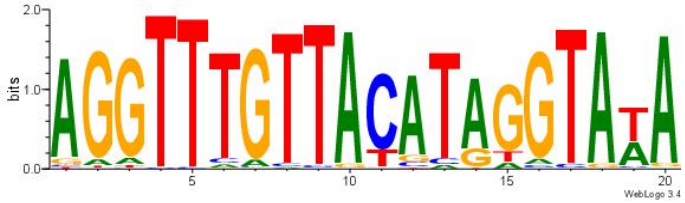

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

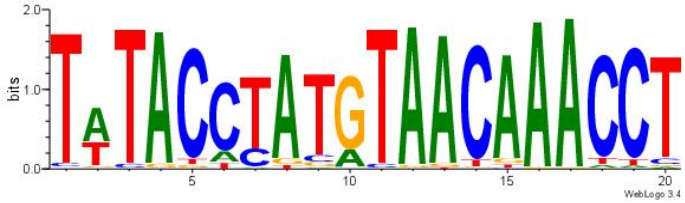

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0827389

Alignment:

```
TCTGGAGTGGACCTCCAGCA
-----GTTGGATTCCCAG--
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

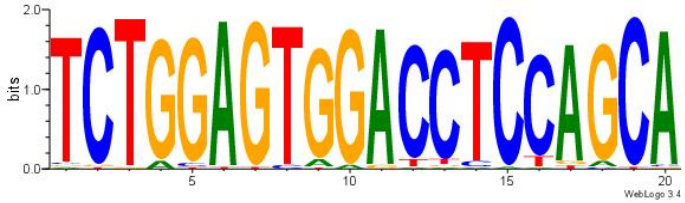

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

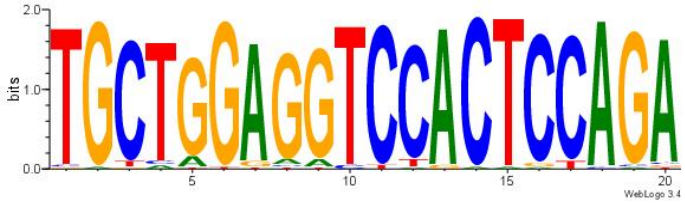

Dataset #:	1
Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.0828152

Alignment:
CTCARGTGATCCTCC
--CTGGGAATCCAAC

Original motif Consensus sequence: CTCARGTGATCCTCC

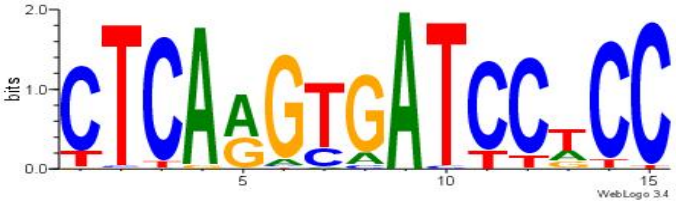

Reverse complement motif Consensus sequence: GGAGGATCACKTG

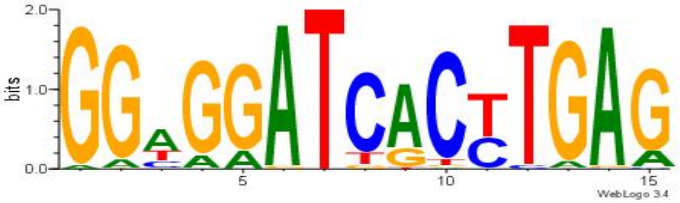

Dataset #: 1
Motif ID: 139
Motif name: Motif 139
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0833869

Alignment:
AWTKKTGGTTKCCAGKGGCT
---GTTGGATTCCCAG----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

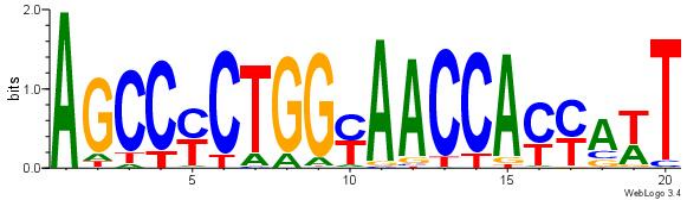

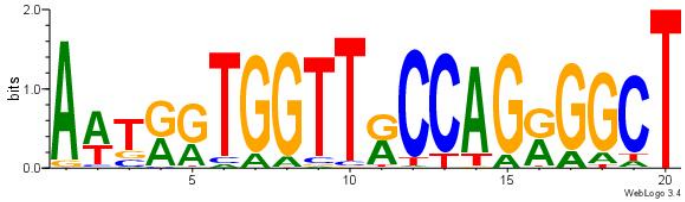

Dataset #:	1
Motif ID:	135
Motif name:	Motif 135
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0842545

Alignment:

```
CTCTTGTTGCCCAG
GTTGGATTCCCAG-
```

Original motif Consensus sequence: CTCTTGTTGCCCAG

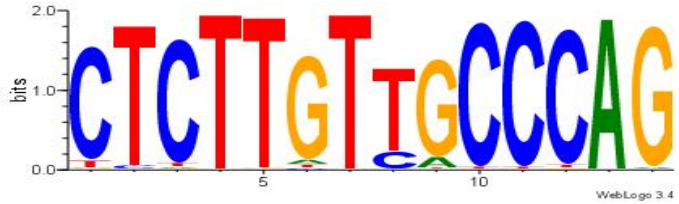

Reverse complement motif Consensus sequence: CTGGGCAACAAGA

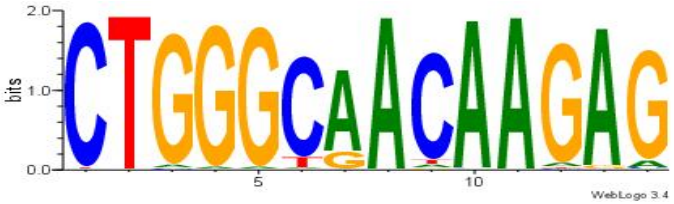

Dataset #:	1
Motif ID:	84

Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0842696

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
CTGGGAATCCAAC-------
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

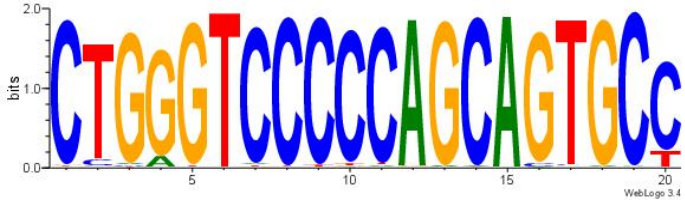

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

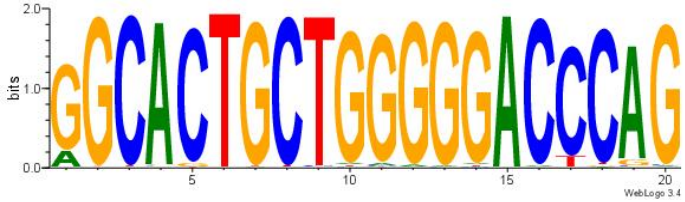

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0852475

Alignment:
ATTGGTGTATTTACAATCCC
----GTTGGATTCCCAG---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

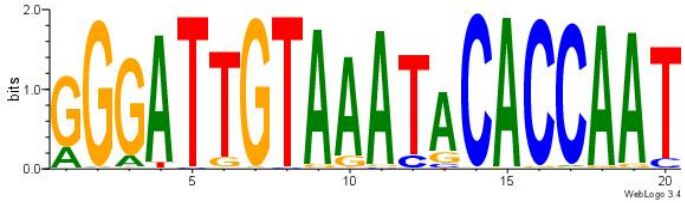

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0868606

Alignment:
TCACKMGGGAAGCGCAAG
-CTGGGAATCCAAC----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

Reverse complement motif Consensus sequence:
TCACKMGGGAAGCGCAAG

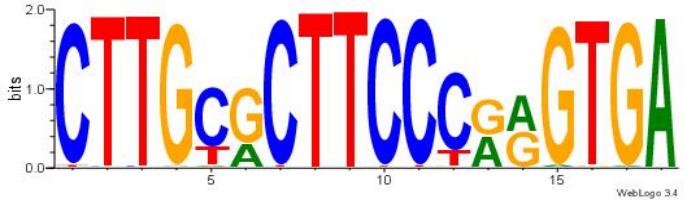

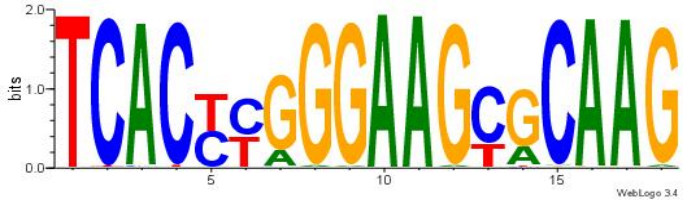

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0875488

Alignment:

```
CGCGGCGCTTGCGGGCCAGC
CTGGGAATCCAAC-------
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

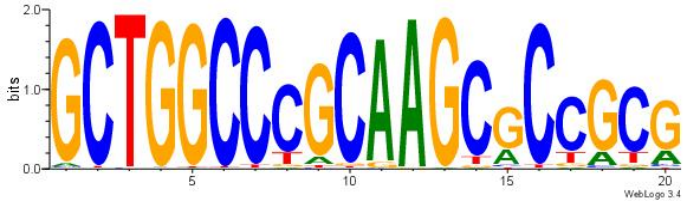

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

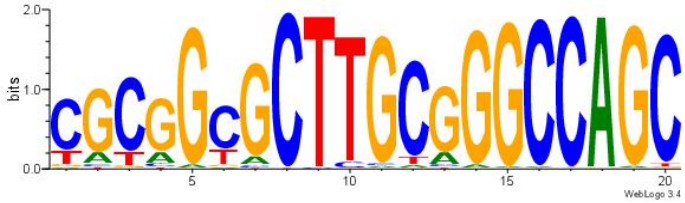

Dataset #:	1

Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0895851

Alignment:

```
ATCCATCCATCCATCCA
--CTGGGAATCCAAC--
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

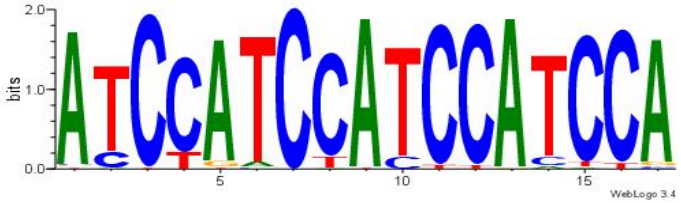

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.0906839

Alignment:
CTCAGGAATGGAAAACC
-CTGGGAATCCAAC---

Original motif Consensus sequence: CTCAGGAATGGAAAACC

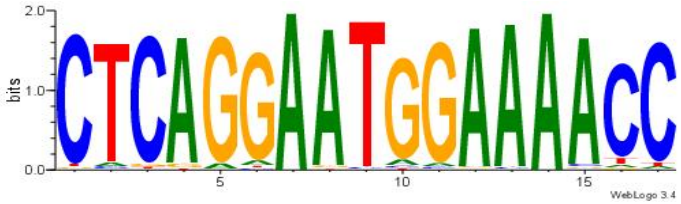

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

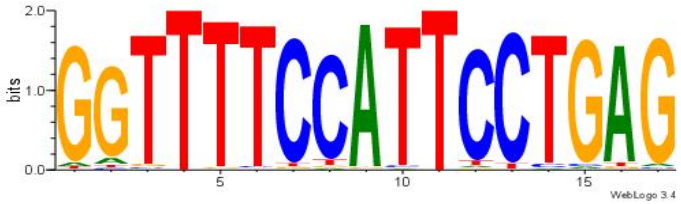

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.090901

Alignment:
TCKMGCCACTGCACTCCAGC
CTGGGAATCCAAC-------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

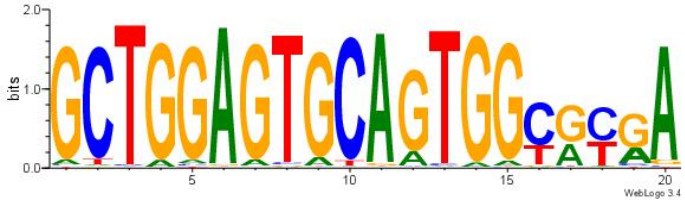

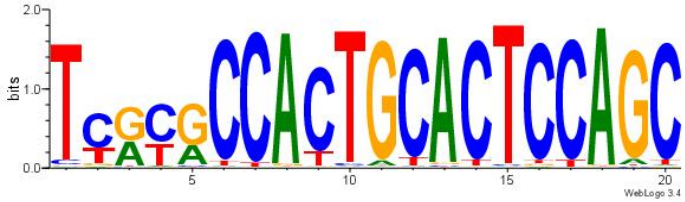

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.090923

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-------GTTGGATTCCCAG
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

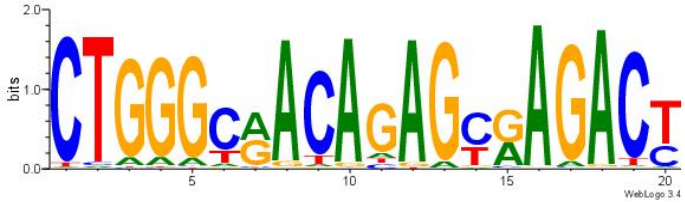

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

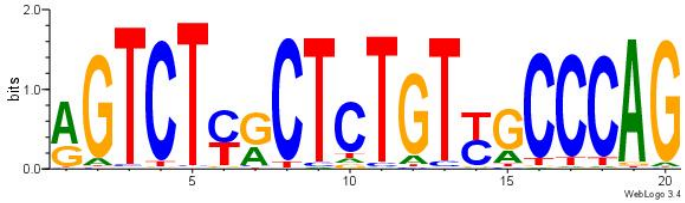

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0914472

Alignment:

```
AAAATCACAAGCATTCCTAT
GTTGGATTCCCAG-------
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

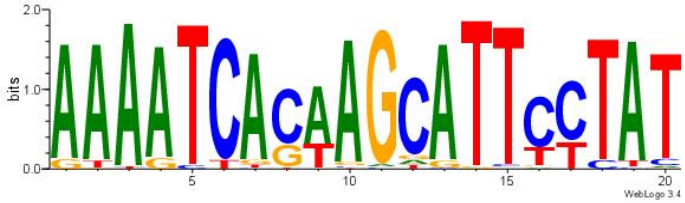

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

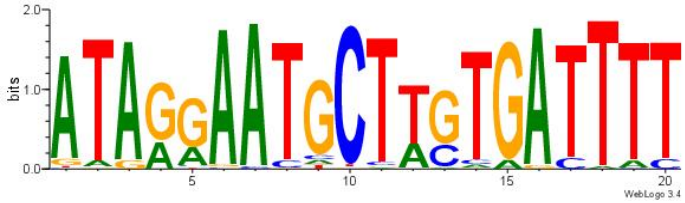

Dataset #:	1
Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.091835

Alignment:
GCTGGAGTGCAGTG
GTTGGATTCCCAG-

Original motif Consensus sequence: CACTGCACTCCAGC

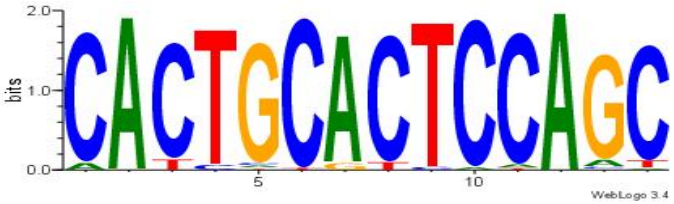

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

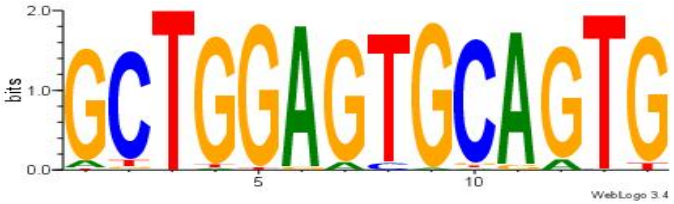

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0919493

Alignment:
GCACTCTGTMTCTAGCT
-CTGGGAATCCAAC---

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

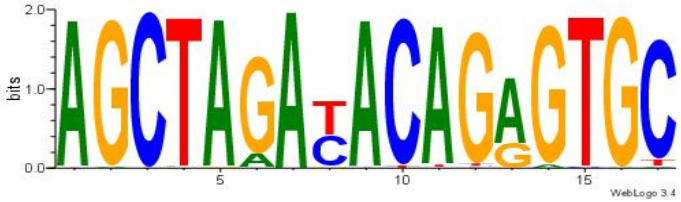

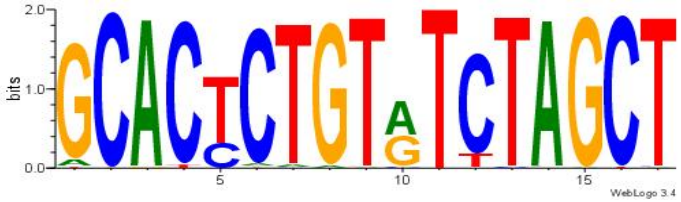

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0919792

Alignment:

```
CATTTGGGAGCCCATTGA
---CTGGGAATCCAAC--
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

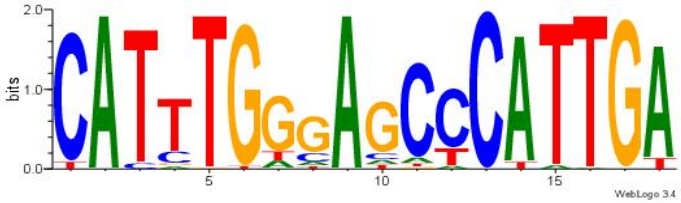

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

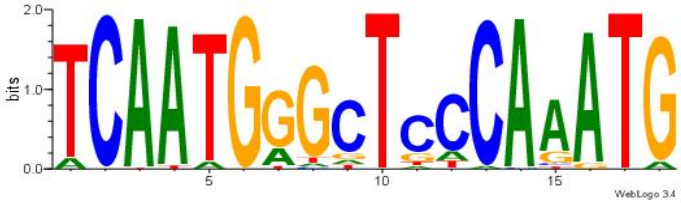

Dataset #: 1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0922291

Alignment:

```
TAGTGGTGATTTSTGAGAT
----GTTGGATTCCCAG--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

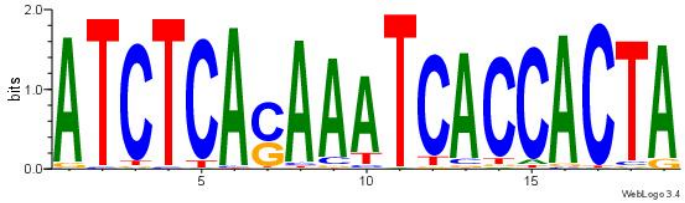

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

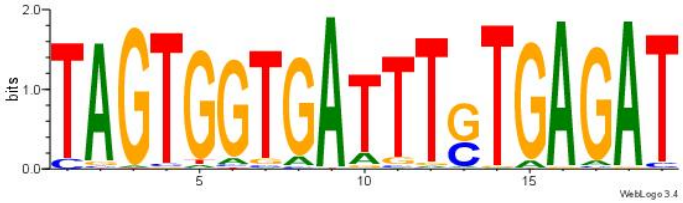

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.0941308

Alignment:
GAAATTGACTTCCTCCT
---GTTGGATTCCCAG-

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

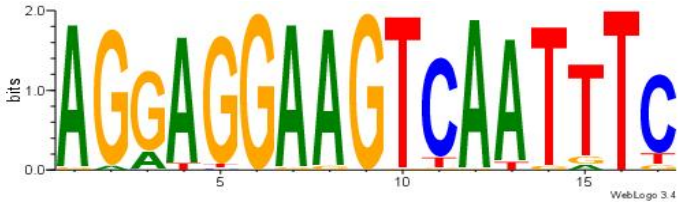

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

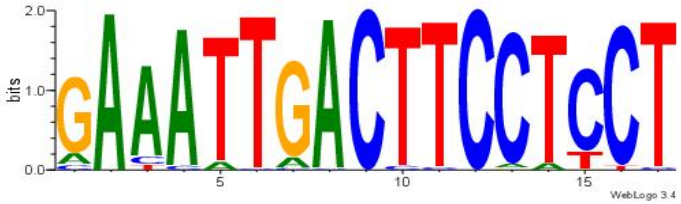

Dataset #: 1
Motif ID: 311
Motif name: Motif 311
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.0941364

Alignment:
TTGGTAGGATCCGTGATGCC
--GTTGGATTCCCAG-----

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

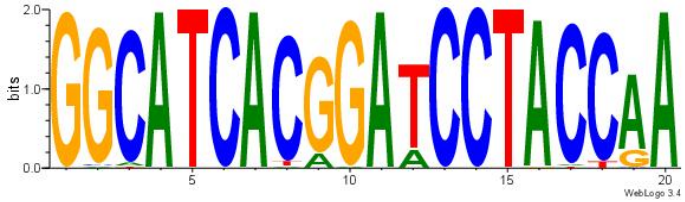

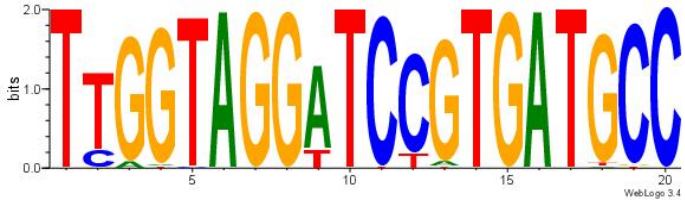

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0945428

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
---CTGGGAATCCAAC----
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

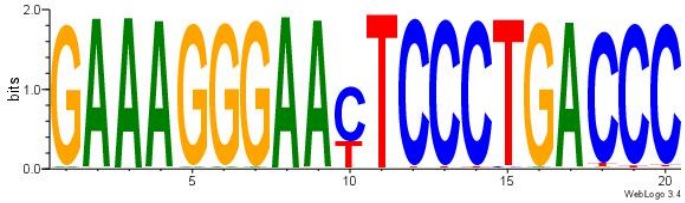

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

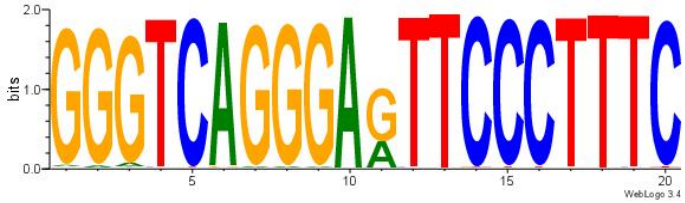

Dataset #:	1

Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0945904

Alignment:

```
TAAGTGGGAGCTAARC
---CTGGGAATCCAAC
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

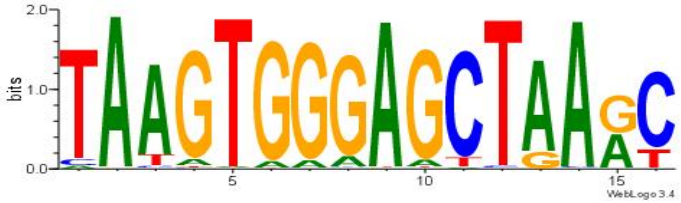

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

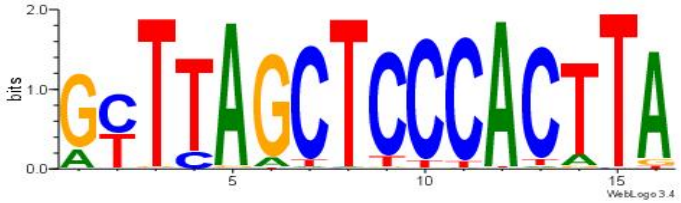

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.0953508

Alignment:
CACCAGACTCAGGAGCCCAG
CTGGGAATCCAAC-------

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

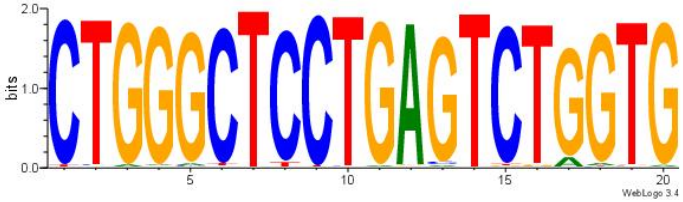

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

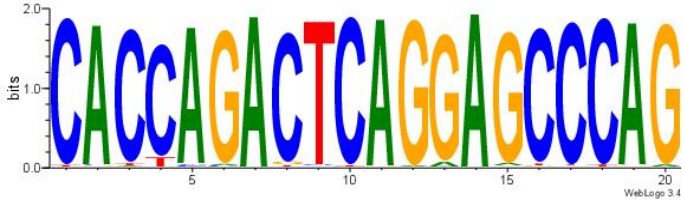

Dataset #: 1
Motif ID: 147
Motif name: Motif 147
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0974213

Alignment:
TCAATGGTGCCCAG
-GTTGGATTCCCAG

Original motif Consensus sequence: CTGGGCACCATTGA

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

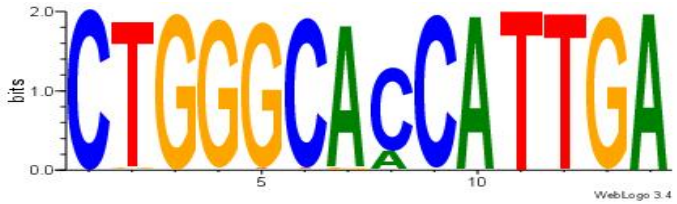

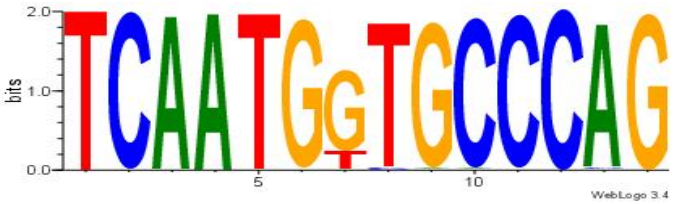

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0974325

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----CTGGGAATCCAAC--
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

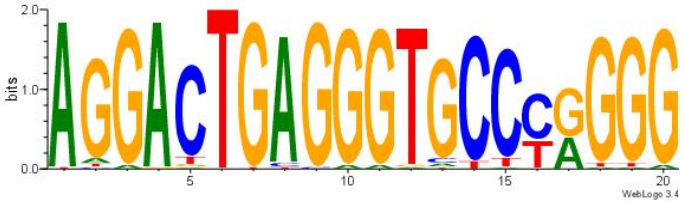

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

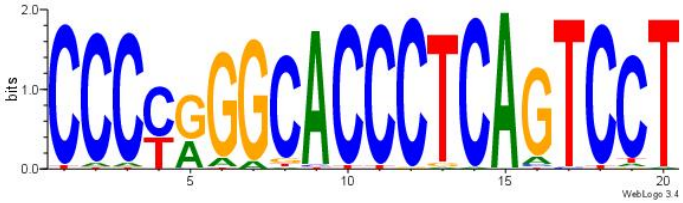

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0983828

Alignment:

```
CTGACTGGGAGACACCTCCC
----CTGGGAATCCAAC---
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

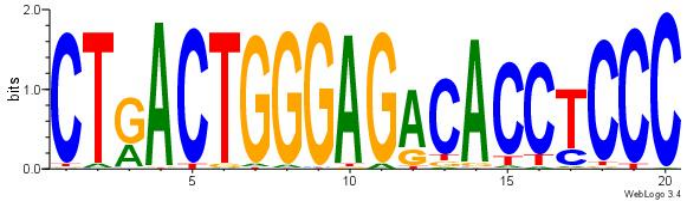

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

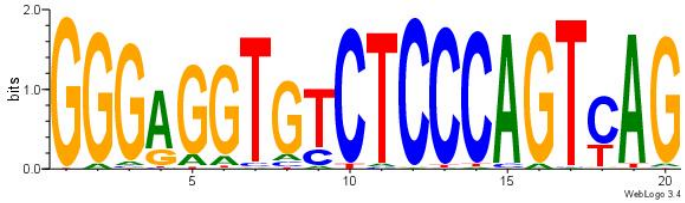

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.098461

Alignment:
GKCTGTACCCCCATTGTAT
-GTTGGATTCCCAG-----

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

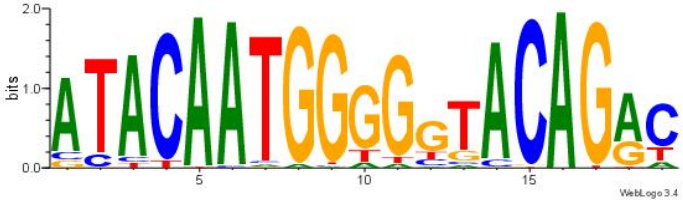

Reverse complement motif Consensus sequence:
GKCTGTACCCCCATTGTAT

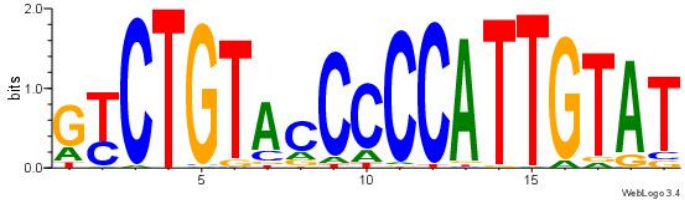

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0986166

Alignment:
CTGAGGACCTGAGGTCRTA
CTGGGAATCCAAC------

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence:
TAMGACCTCAGGTCCTCAG

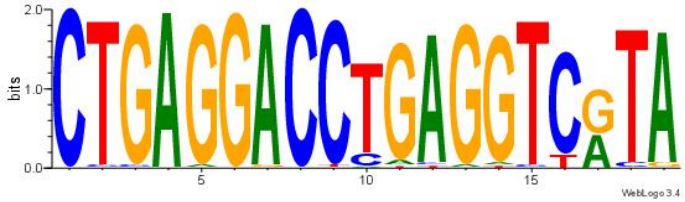

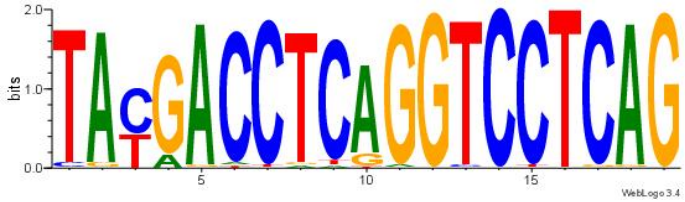

Dataset #:	1
Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0998318

Alignment:

```
CCAAGACYCCAGAC
CTGGGAATCCAAC-
```

Original motif Consensus sequence: CCAAGACYCCAGAC

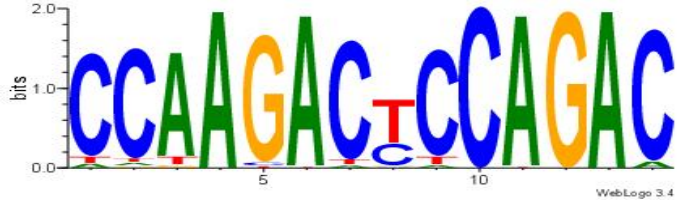

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

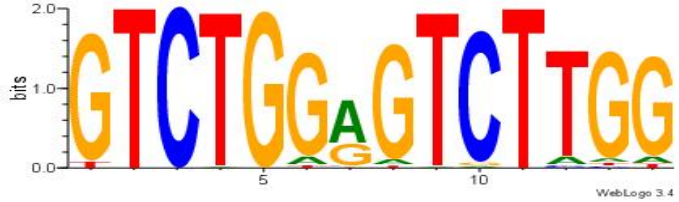

Dataset #:	1
Motif ID:	201

Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.10021

Alignment:

```
GTAACACTCACCGCGARGGT
-------GTTGGATTCCCAG
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

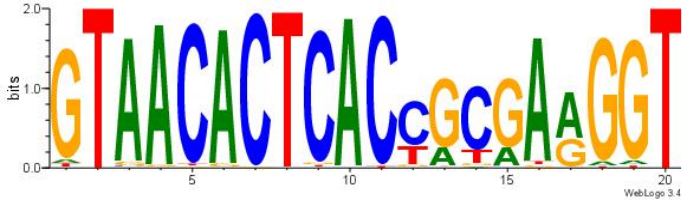

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

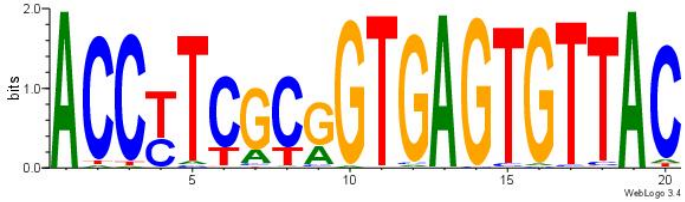

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.100427

Alignment:
ACCTGGAAAATCGGGTCACT
--CTGGGAATCCAAC-----

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

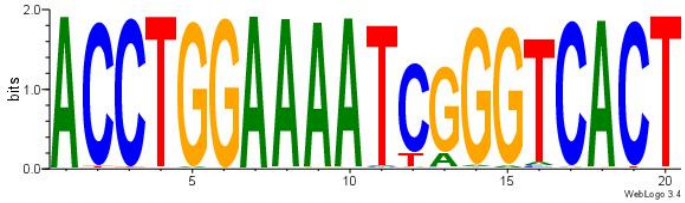

Reverse complement motif Consensus sequence:
AGTGACCCGATTTTCCAGGT

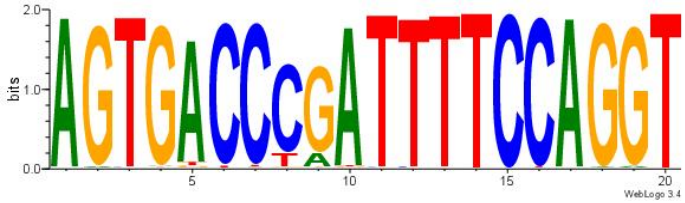

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.100476

Alignment:
CTATTGTGAATARTGCTGC
---CTGGGAATCCAAC---

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

Reverse complement motif Consensus sequence:
GCAGCAMTATTCACAATAG

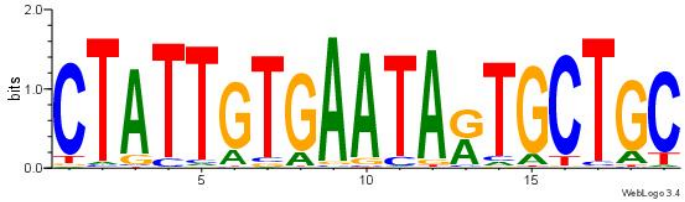

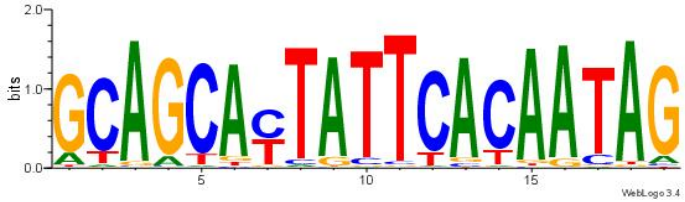

Dataset #:	1
Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.100484

Alignment:

```
ACAGGCTGTCCCAGGATTC
-GTTGGATTCCCAG-----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

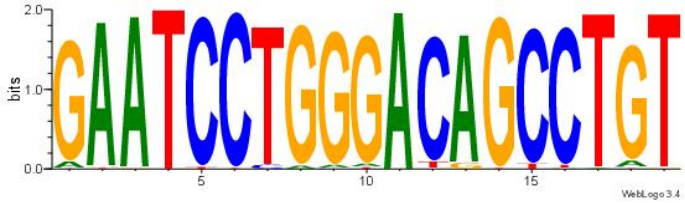

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

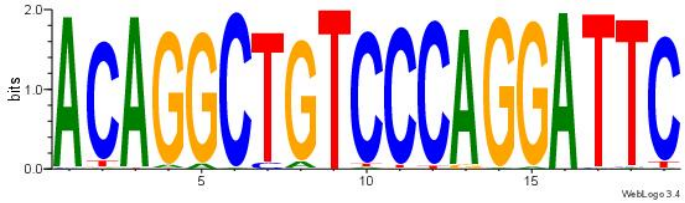

Dataset #: 1

Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.101022

Alignment:

```
GTTAACTGTAAAACAGCCT
-----CTGGGAATCCAAC-
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

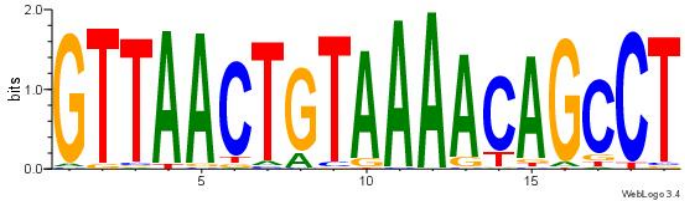

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

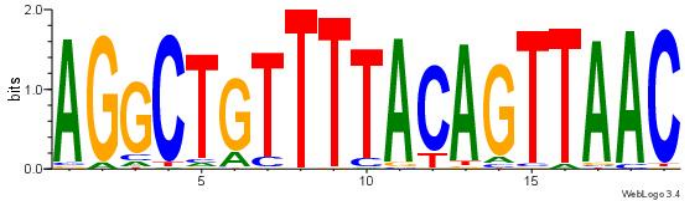

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.101108

Alignment:
AGGTATTTCTCCCACC
-GTTGGATTCCCAG--

Original motif Consensus sequence: AGGTATTTCTCCCACC

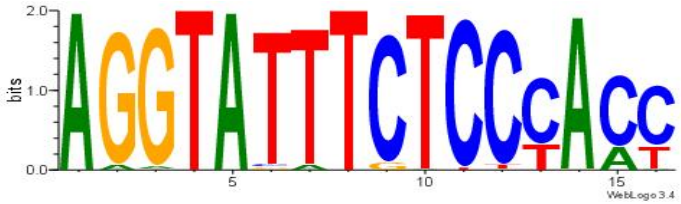

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

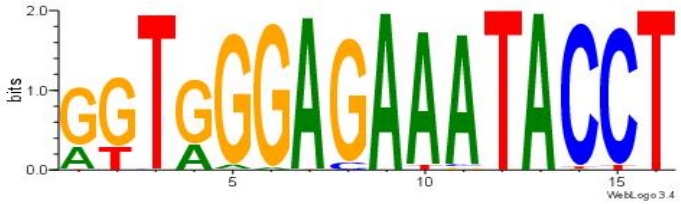

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.101408

Alignment:
GGTGGAGCTGCCTGCCAGTC
-GTTGGATTCCCAG------

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

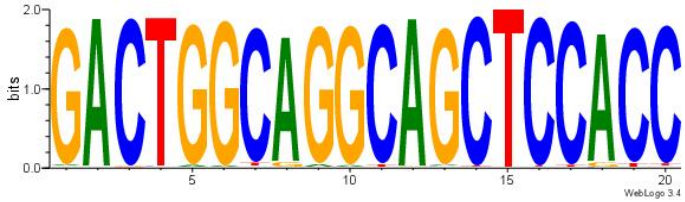

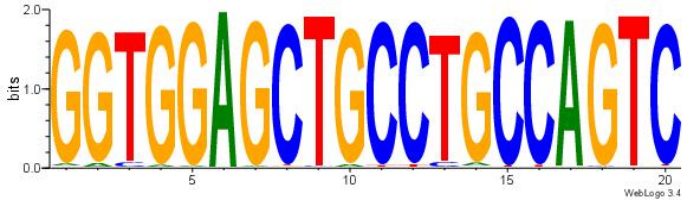

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.101856

Alignment:

```
ACATCMTCTGAAATCTAGG
-CTGGGAATCCAAC-----
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

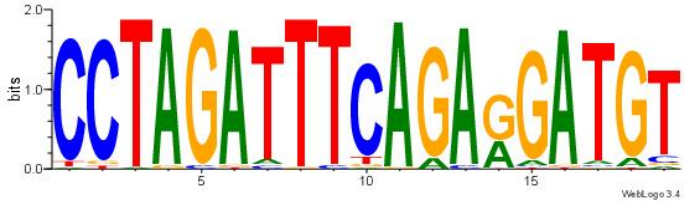

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

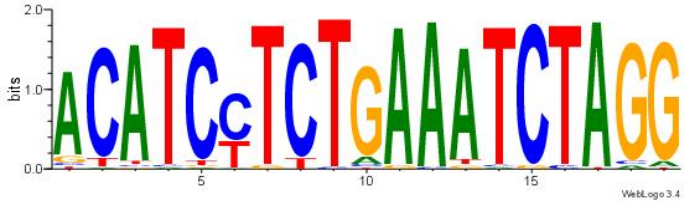

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.102023

Alignment:

```
GTTTAACCATTGAGGGCCAG
-------GTTGGATTCCCAG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

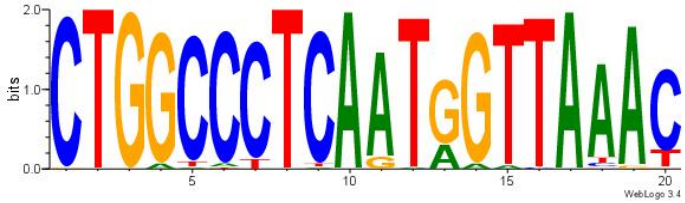

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

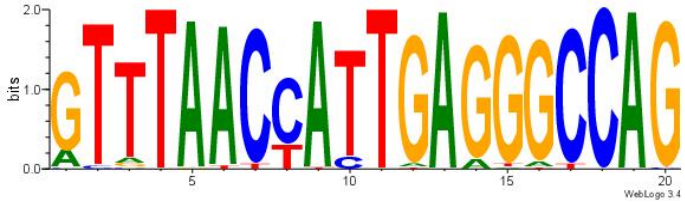

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.102208

Alignment:
TTTGTTATAGCAG
GTTGGATTCCCAG

Original motif Consensus sequence: CTGCTATAACAAA

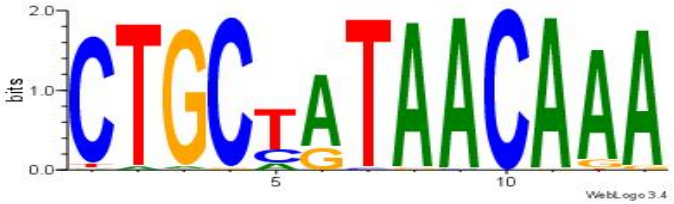

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

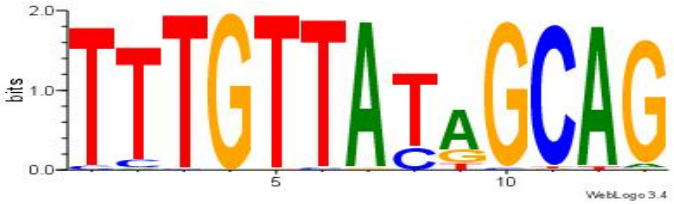

Dataset #: 1
Motif ID: 143
Motif name: Motif 143
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.102295

Alignment:
GTGAGCGACGCAG
GTTGGATTCCCAG

Original motif Consensus sequence: CTGCGTCGCTCAC

Reverse complement motif Consensus sequence: GTGAGCGACGCAC

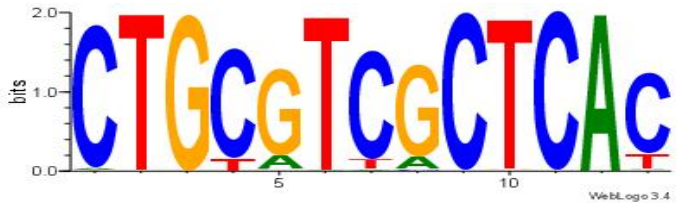

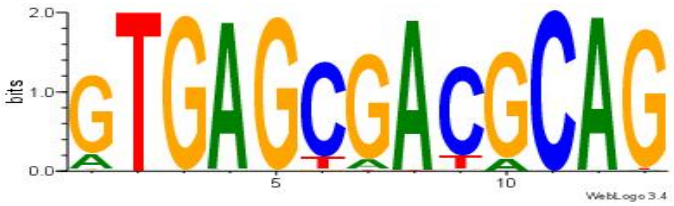

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.10272

Alignment:

```
CTTTCTGGGCTGGCCAAGG
----GTTGGATTCCCAG--
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

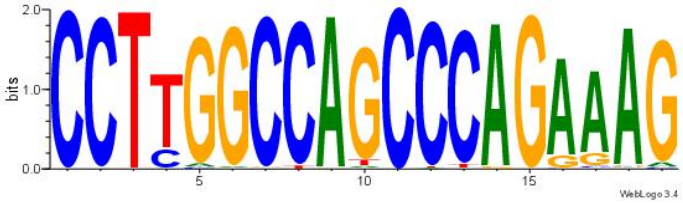

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

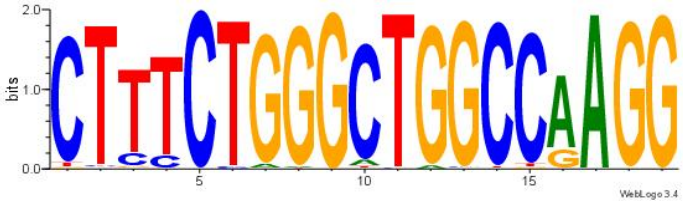

Dataset #:	1

Motif ID:	274
Motif name:	Motif 274
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.102995

Alignment:

```
TTTCCTTGACCAG
GTTGGATTCCCAG
```

Original motif Consensus sequence: CTGGTCAAGGAAA

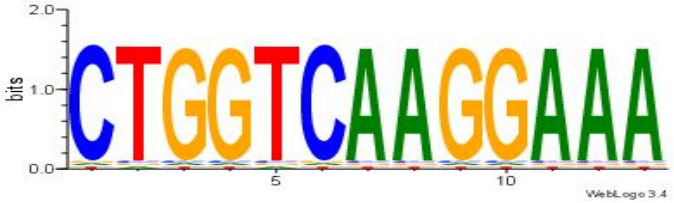

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

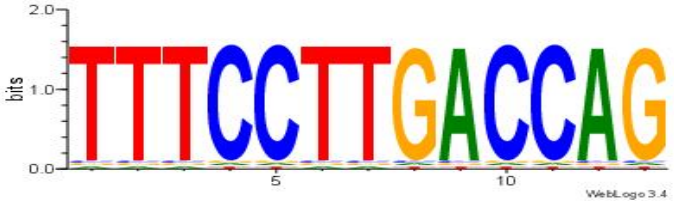

Dataset #:	1
Motif ID:	289
Motif name:	Motif 289
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.103273

Alignment:
TGATGGGTGCACCAAA
--GTTGGATTCCCAG-

Original motif Consensus sequence: TGATGGGTGCACCAAA

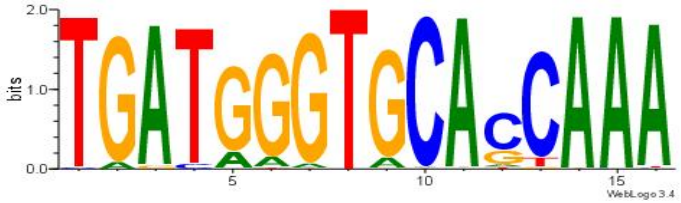

Reverse complement motif Consensus sequence: TTTGGTGCACCCATCA

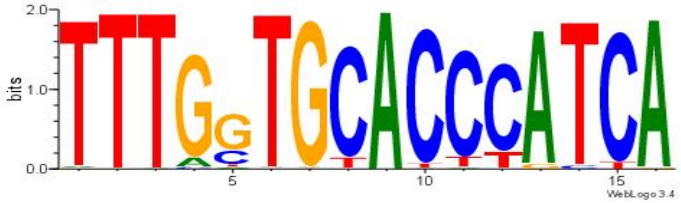

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.104508

Alignment:
CCCATGCAAGTCYRAAATCC
---CTGGGAATCCAAC----

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

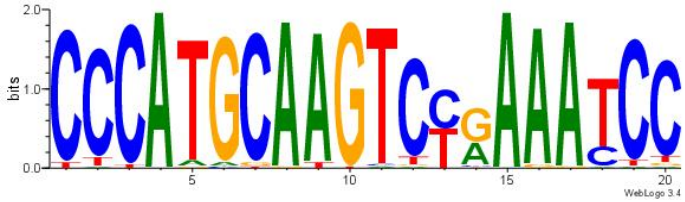

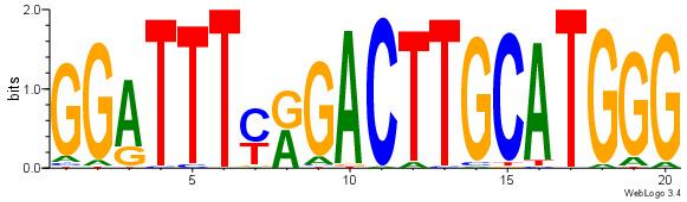

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.104564

Alignment:

```
AAGAGGTTTAATTGRCTCA
-GTTGGATTCCCAG-----
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

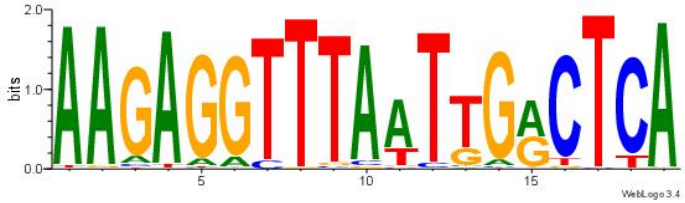

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

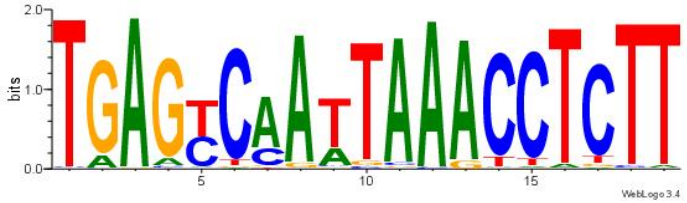

Dataset #: 1 Motif ID: 346 Motif name: Motif 346

Original motif Consensus sequence: AAATCTTAAAGCTC

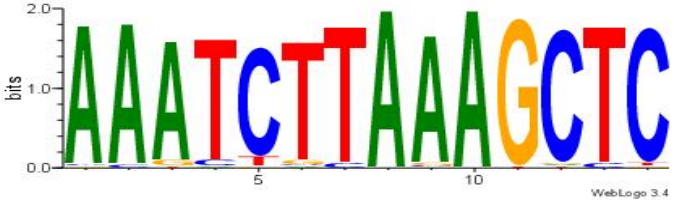

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

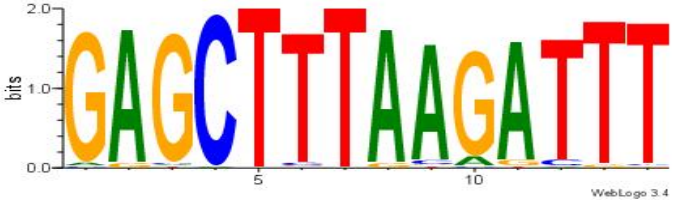

Best Matches for Motif ID 346 (Highest to Lowest)

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0682748

Alignment:

```
ACCATCTTTAAGAACT
--GAGCTTTAAGATTT
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

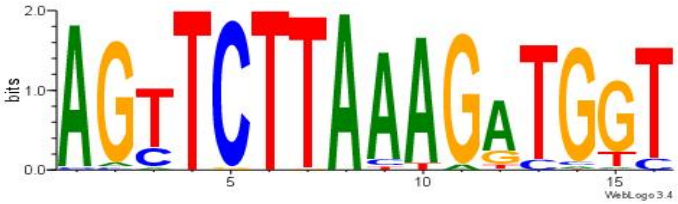

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

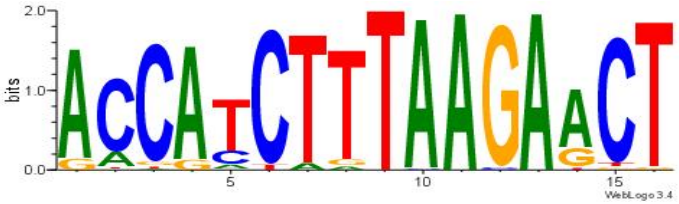

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0876662

Alignment:

```
GAAACTGCTTTGTGATGTGT
----GAGCTTTAAGATTT--
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

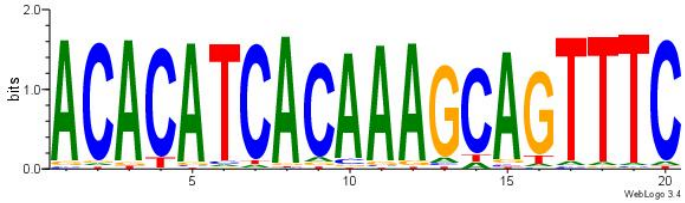

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

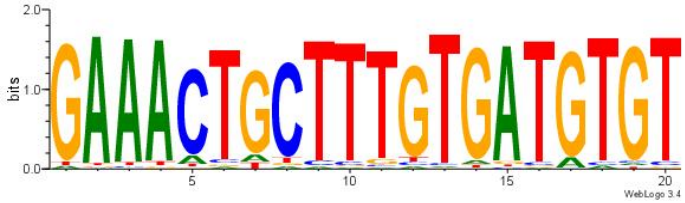

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 14
Similarity score: 0.0880907

Alignment:
AATGAGTTAAGACTTTG
--GAGCTTTAAGATTT-

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

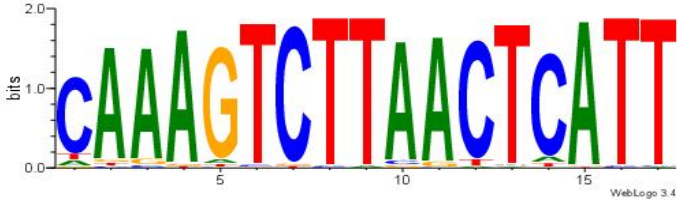

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0973462

Alignment:
CCTAGATTTCAGARGATGT
---GAGCTTTAAGATTT--

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

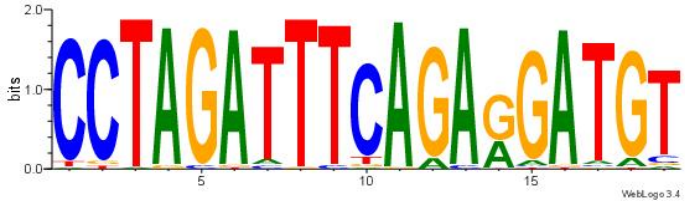

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

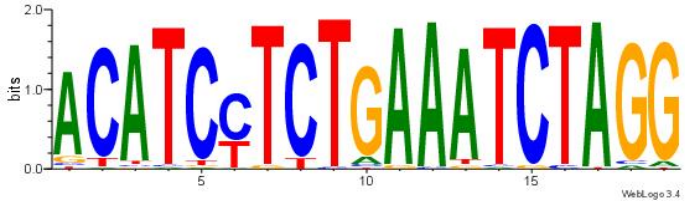

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.100914

Alignment:

```
CTAGACATAAAGGTTCTCCA
--AAATCTTAAAGCTC----
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

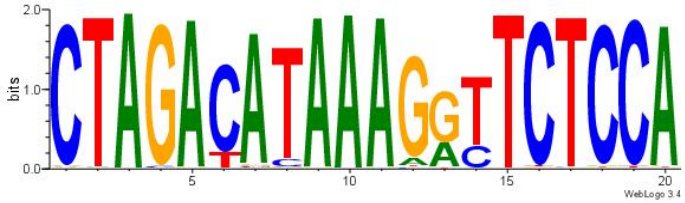

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

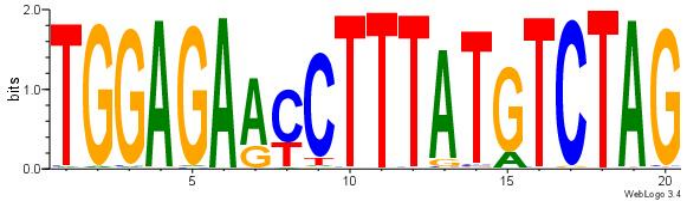

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.102021

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-----GAGCTTTAAGATTT-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

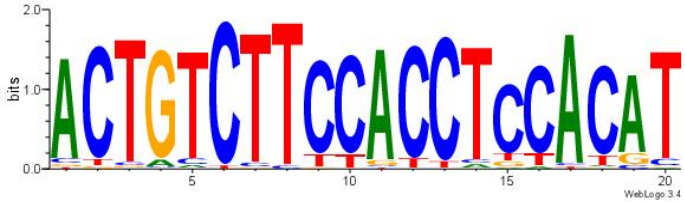

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

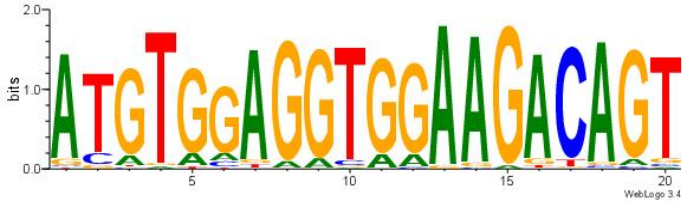

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.102613

Alignment:
GAATACCTCCTGAAGGACCT
--AAATCTTAAAGCTC----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

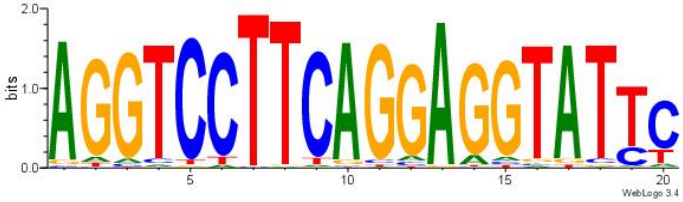

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

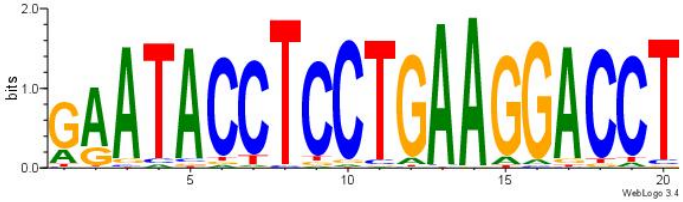

Dataset #: 1
Motif ID: 233
Motif name: Motif 233
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.103043

Alignment:
AGGCTGTTTTACAGTTAAC
--GAGCTTTAAGATTT---

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

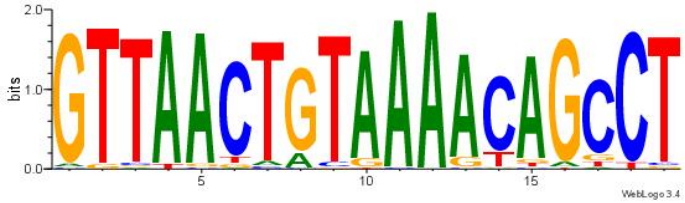

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

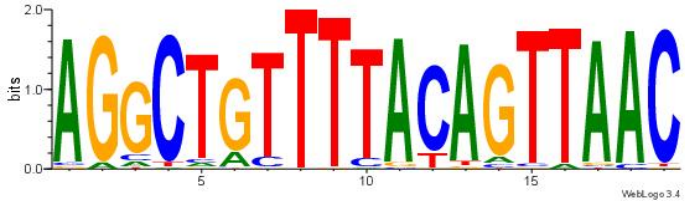

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.103315

Alignment:

```
CAAAGGCATAAGAATGAT
--GAGCTTTAAGATTT--
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

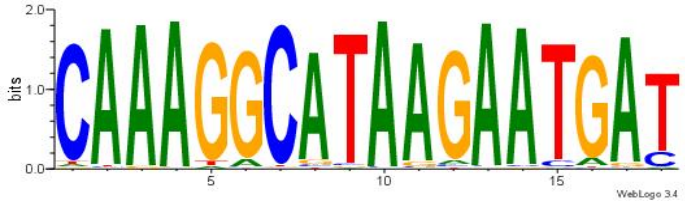

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

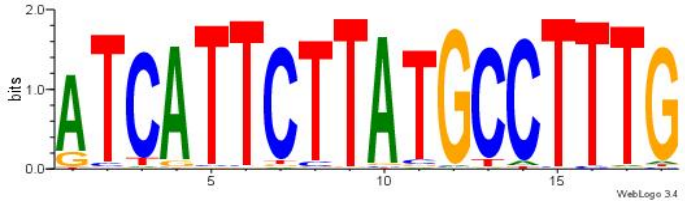

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.103395

Alignment:

```
CAAGTTGACACATAAAATTA
------GAGCTTTAAGATTT
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

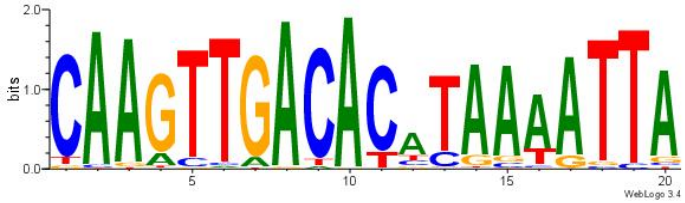

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

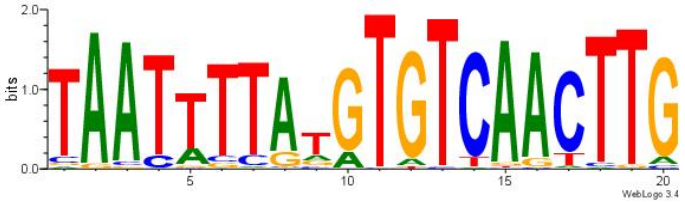

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.103446

Alignment:
AAAACCAGCAAGTTTTTAT
-AAATCTTAAAGCTC----

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

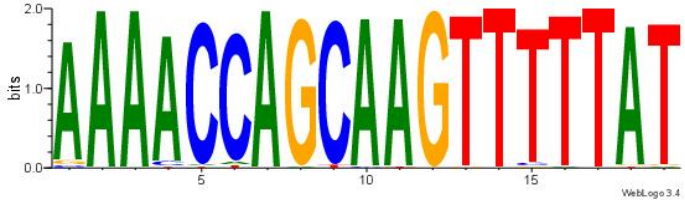

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

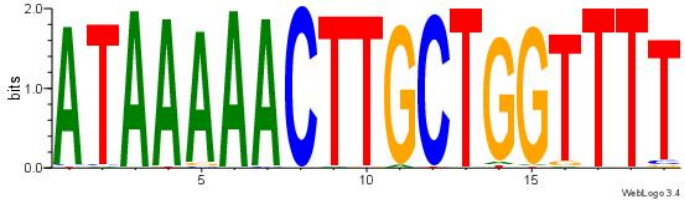

Dataset #: 1
Motif ID: 254
Motif name: Motif 254
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.105479

Alignment:
AAAATCACAAGCATTCCTAT
-AAATCTTAAAGCTC-----

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

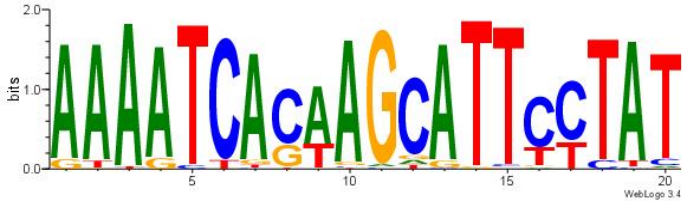

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

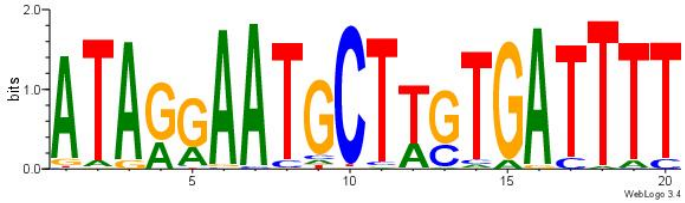

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.105749

Alignment:

```
AGTGAGAACATRYRRTRTTT
-GAGCTTTAAGATTT-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

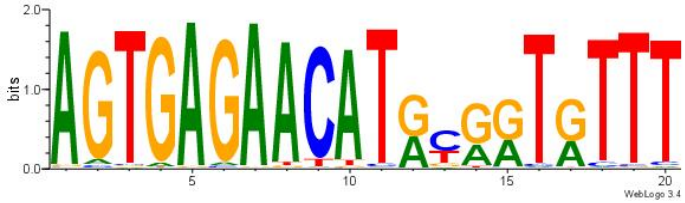

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

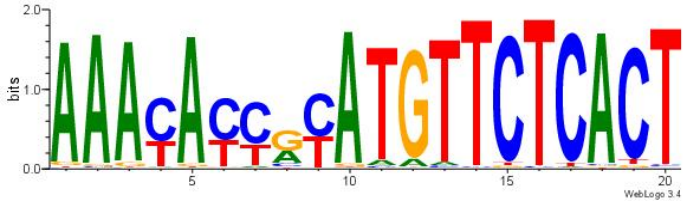

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.106123

Alignment:

```
TGAGKCAATTAAACCTCTT
--AAATCTTAAAGCTC---
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

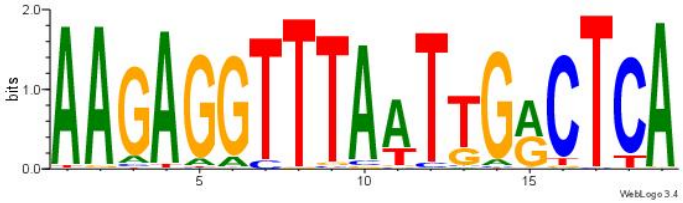

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

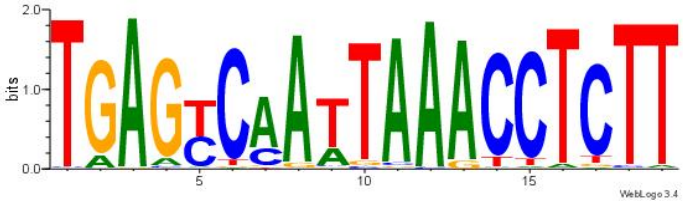

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 14
Similarity score: 0.10689

Alignment:
TAGTGGTGATTTSTGAGAT
-----GAGCTTTAAGATTT

Original motif Consensus sequence: ATCTCASAAATCACCACTA

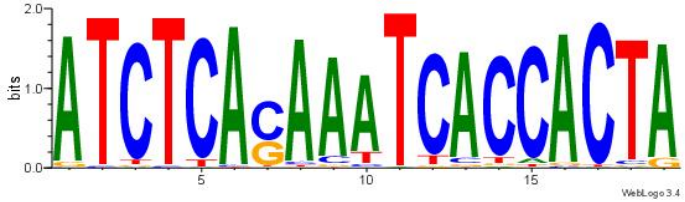

Reverse complement motif Consensus sequence:
TAGTGGTGATTTSTGAGAT

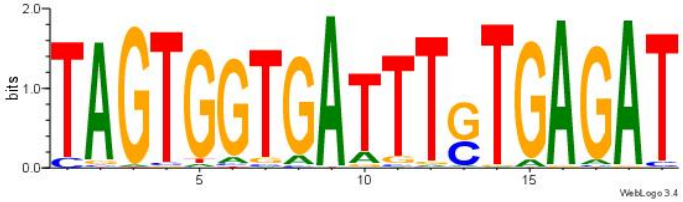

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.107755

Alignment:
ACCGAGMKMGCAGCTTCGGG
---GAGCTTTAAGATTT---

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

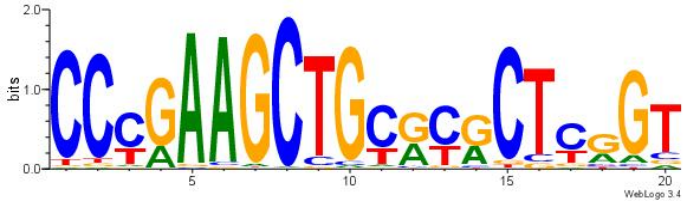

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

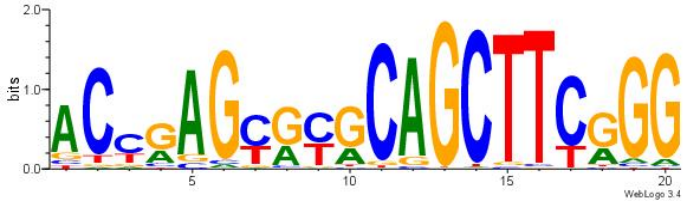

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.111158

Alignment:

```
ACCCAATWTGTAGTCTTTTA
----GAGCTTTAAGATTT--
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

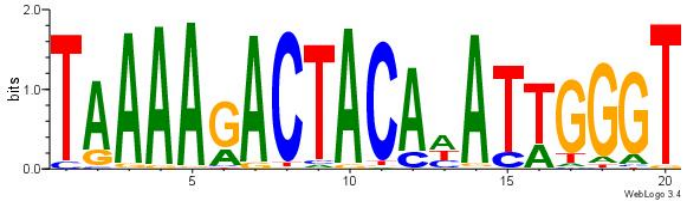

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

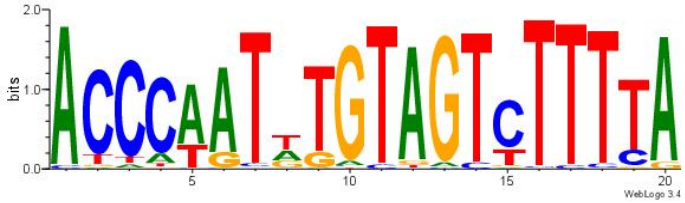

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.113307

Alignment:

```
GTTTAACCATTGAGGGCCAG
--AAATCTTAAAGCTC----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

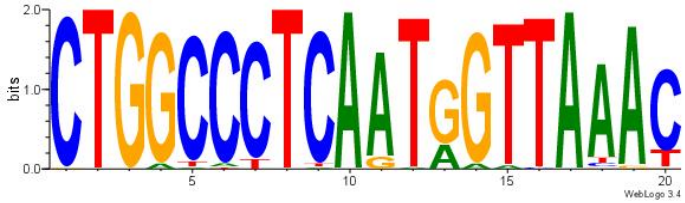

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

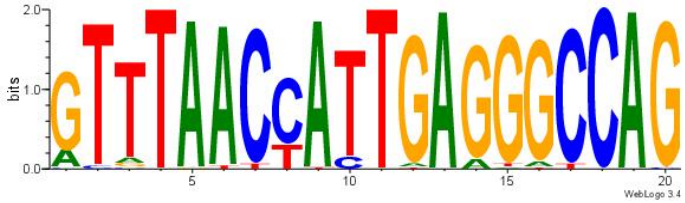

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7

Number of overlap: 14
Similarity score: 0.114402

Alignment:
AAGTCCAAGATCAAGGTGYY
AAATCTTAAAGCTC------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

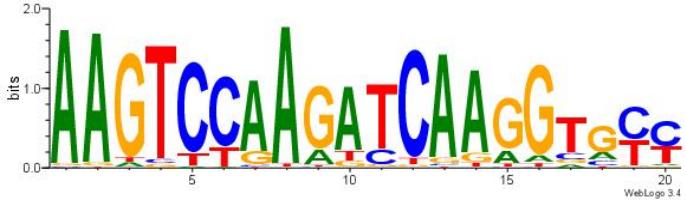

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

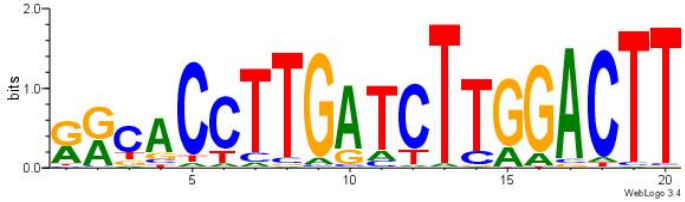

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.115518

Alignment:
GTKTMTATMTACCACATTTT
-----GAGCTTTAAGATTT-

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

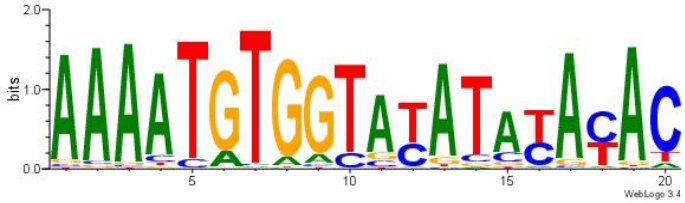

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

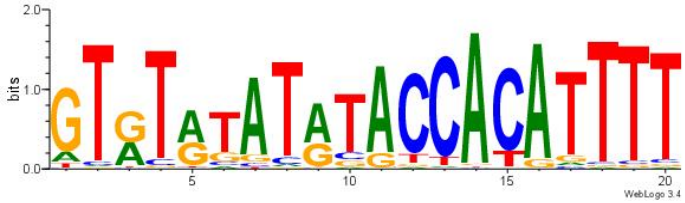

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.115568

Alignment:

```
GACTTCAAGAATGAAGCCG
-----AAATCTTAAAGCTC
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

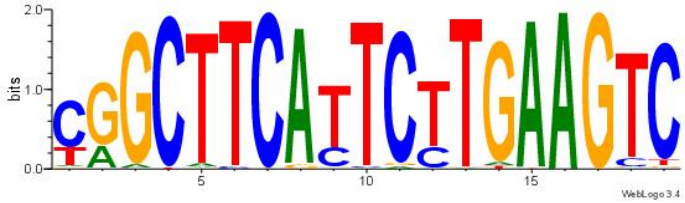

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.115719

Alignment:

```
CTTGCGCTTCCCRRGTGA
-GAGCTTTAAGATTT---
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

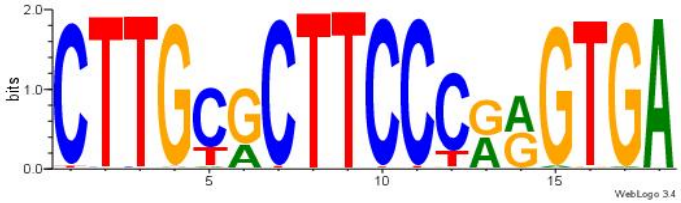

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

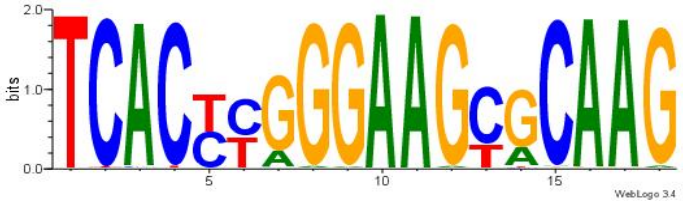

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 14
Similarity score: 0.115982

Alignment:
AGAGCCAAATCATGARTGAA
------AAATCTTAAAGCTC

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

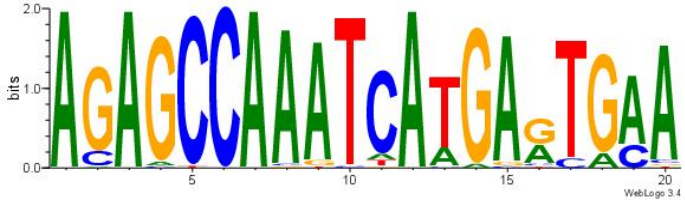

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

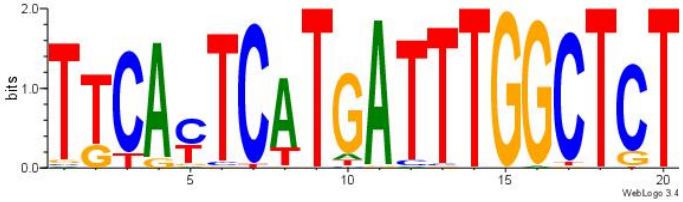

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.116141

Alignment:
CAGAAATCACCCGTCTT
---AAATCTTAAAGCTC

Original motif Consensus sequence: CAGAAATCACCCGTCTT

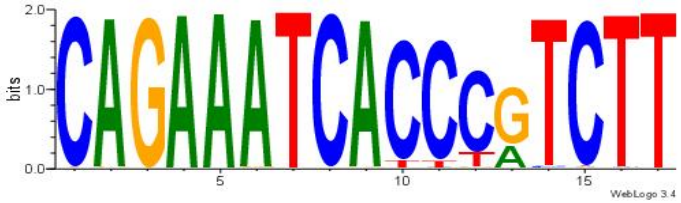

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

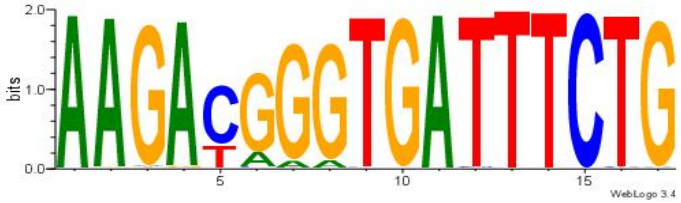

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.116213

Alignment:

```
CAGGTGGTKTTTGGTTACAT
---GAGCTTTAAGATTT---
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

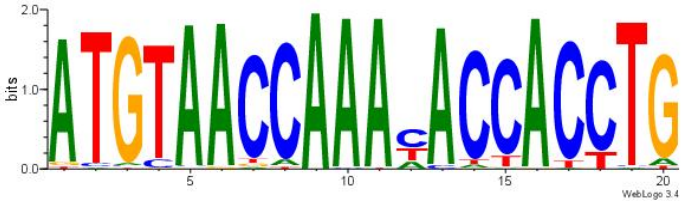

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

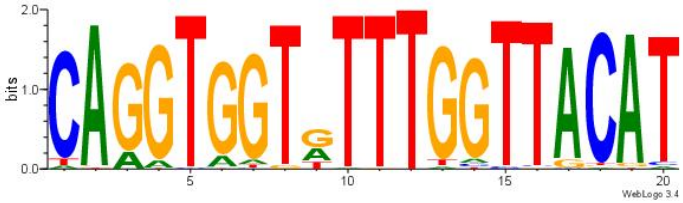

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.116495

Alignment:

```
AAAAGTCCACAGTCCAAAGT
-AAATCTTAAAGCTC-----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

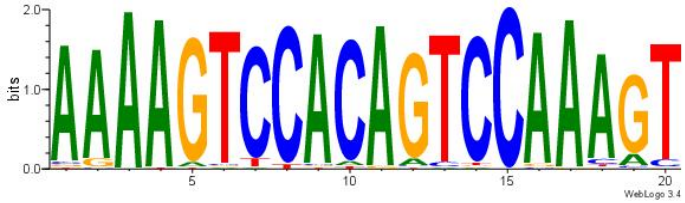

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

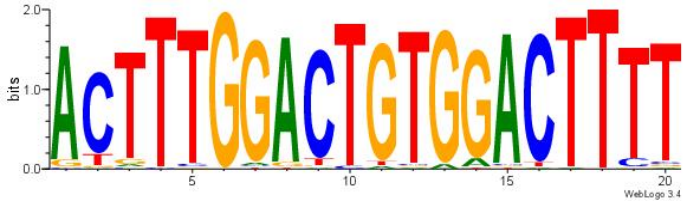

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.11706

Alignment:
CCCAAATCTCATSTTGAAT
---AAATCTTAAAGCTC--

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

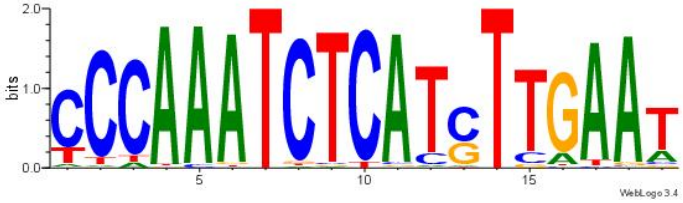

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

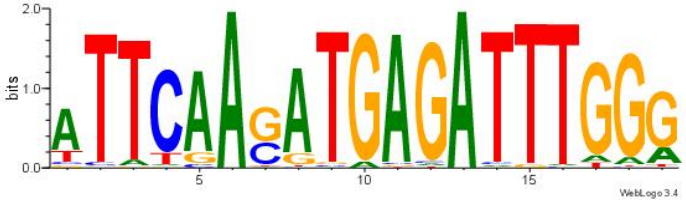

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.117091

Alignment:
GCCAATTTCTCCCATTTGGA
---GAGCTTTAAGATTT---

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

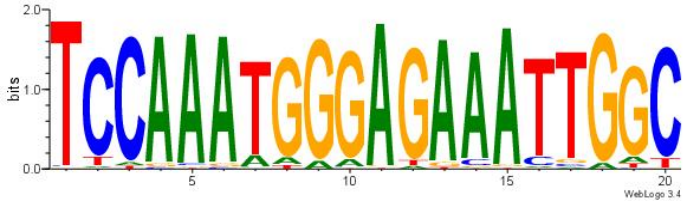

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

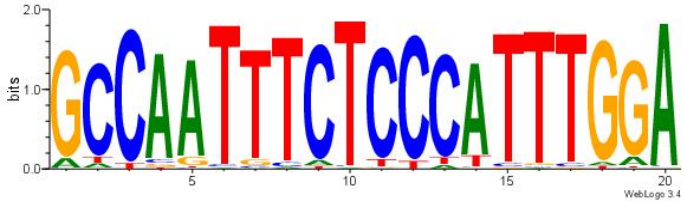

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	14
Similarity score:	0.117242

Alignment:

```
TTGTCCCACTGGAAGGTCTT
-----GAGCTTTAAGATTT-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

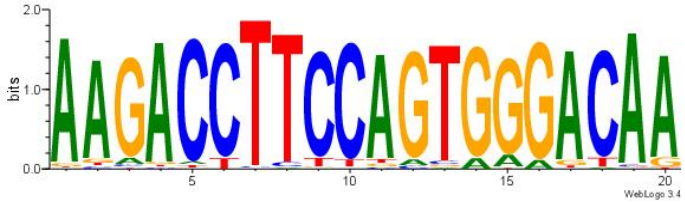

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

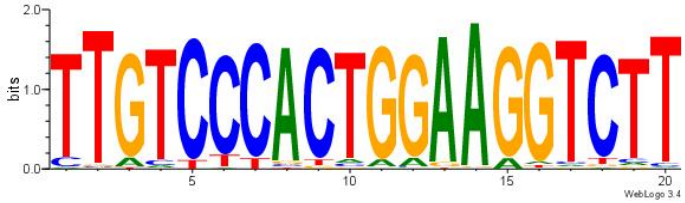

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.117276

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
----GAGCTTTAAGATTT--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

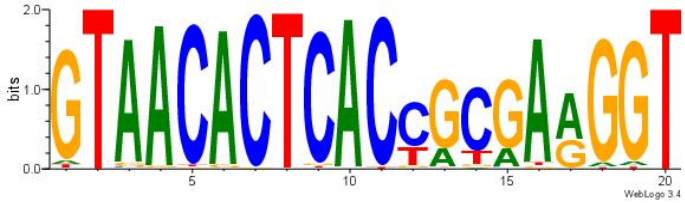

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

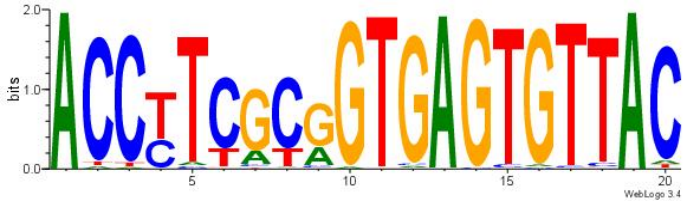

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 14
Similarity score: 0.117321

Alignment:
GCAGCTTCACTCCTGA
-GAGCTTTAAGATTT-

Original motif Consensus sequence: GCAGCTTCACTCCTGA

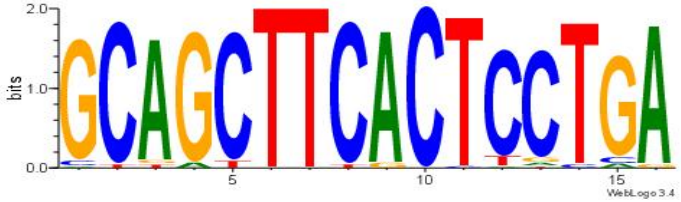

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

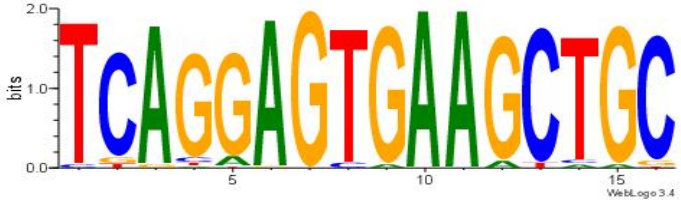

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.117683

Alignment:
GCCGTTTKTTAAGCCCGTY
--AAATCTTAAAGCTC---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

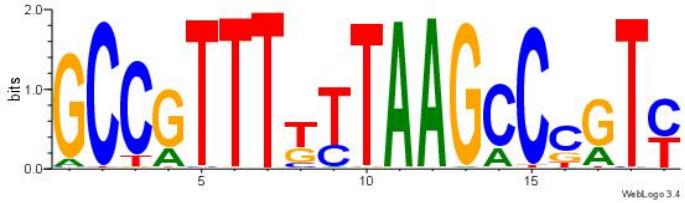

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

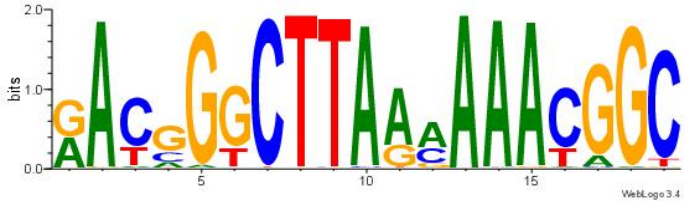

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.117885

Alignment:

```
KGCAACCTAGATCCCT
-AAATCTTAAAGCTC-
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

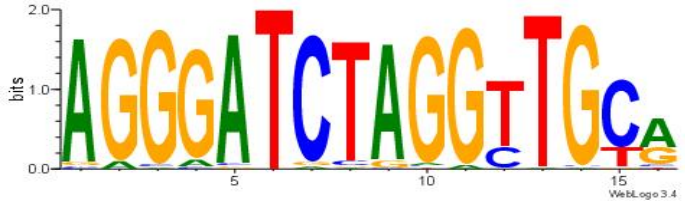

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

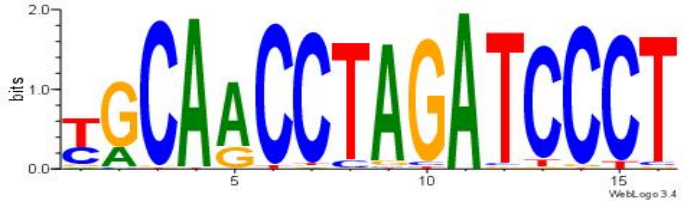

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.117987

Alignment:

```
CTCAGTGTTAATCTCCTGTC
--AAATCTTAAAGCTC----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

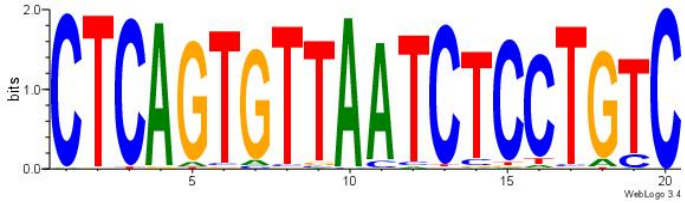

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

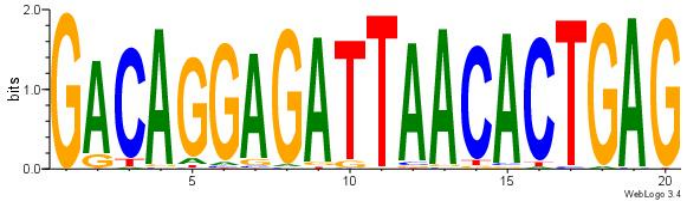

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 14
Similarity score: 0.118099

Alignment:
CAAGGGTATAYGAGTAGCTG
----GAGCTTTAAGATTT--

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

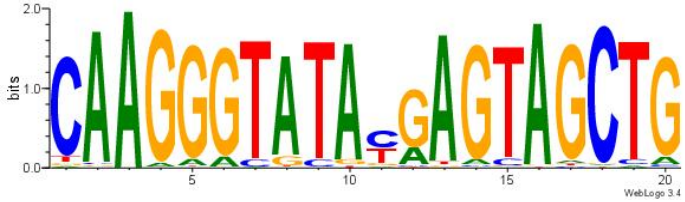

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

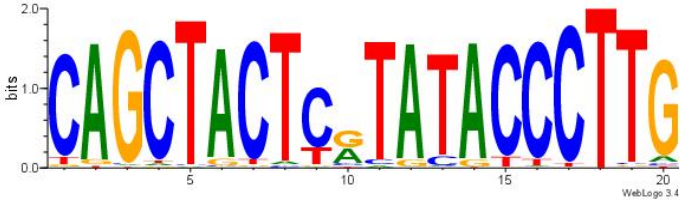

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.118791

Alignment:
GGGATTGTAAATACACCAAT
----AAATCTTAAAGCTC--

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

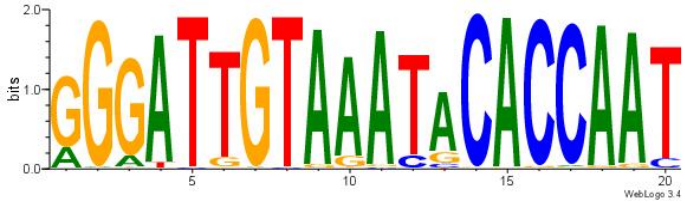

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.119063

Alignment:

```
TACCTGAGACTGGGTAATTT
-----GAGCTTTAAGATTT-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

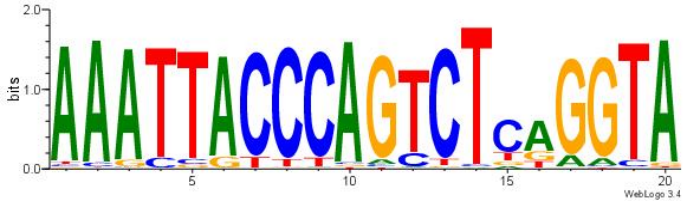

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

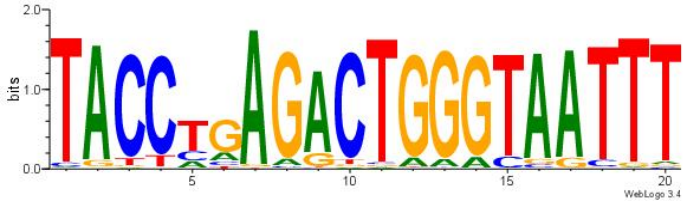

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.11931

Alignment:

```
GCACATGTAYCCYAGAACTT
------AAATCTTAAAGCTC
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

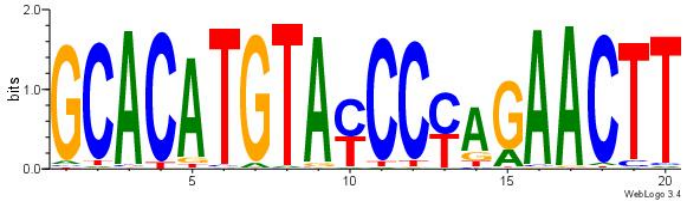

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

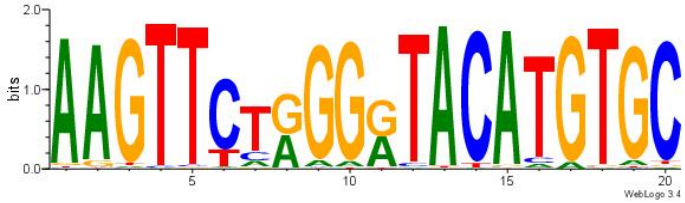

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 14
Similarity score: 0.119508

Alignment:
ATTGATMKCCAGGGTTGATT
---GAGCTTTAAGATTT---

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

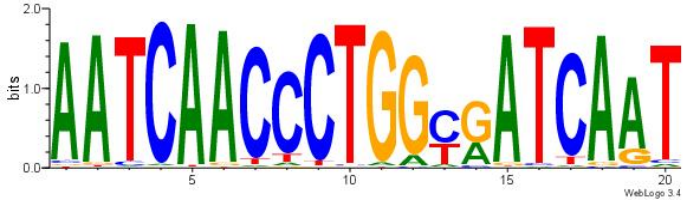

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

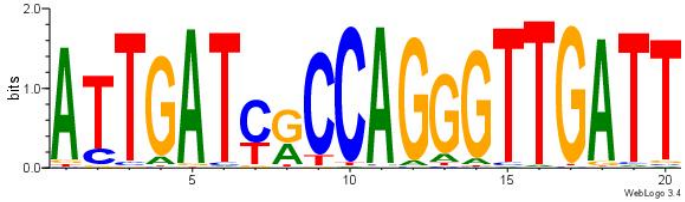

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.11961

Alignment:
GAAHCAACCKAAKTGTCCAT
--AAATCTTAAAGCTC----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

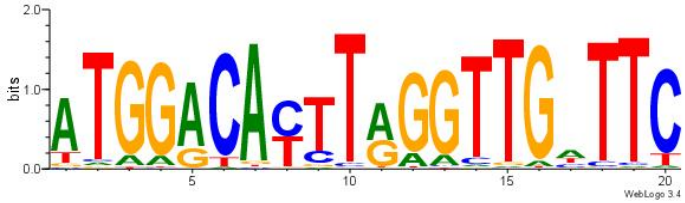

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

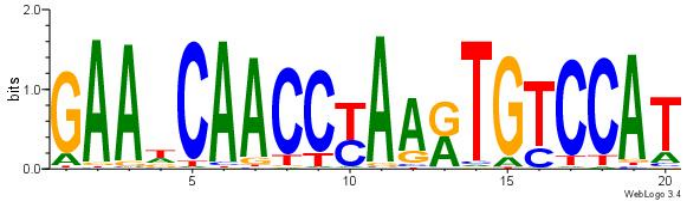

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.120215

Alignment:

```
AGTTGTAATTGGGAGACTT
GAGCTTTAAGATTT-----
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

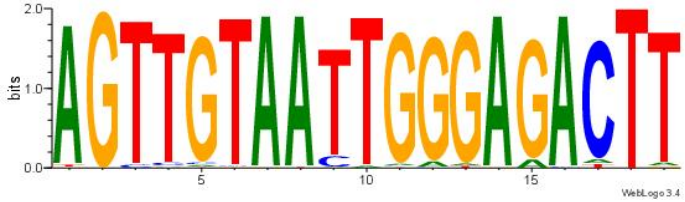

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

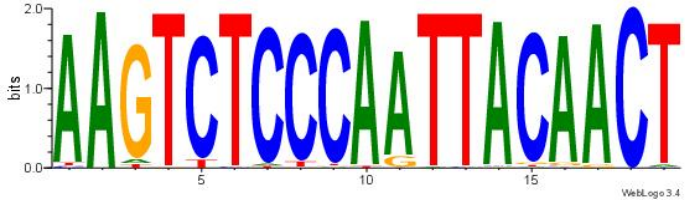

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.120322

Alignment:

```
KACATTGATTTTGTATC
GAGCTTTAAGATTT---
```

Original motif Consensus sequence: GATACAAAATCAATGTR

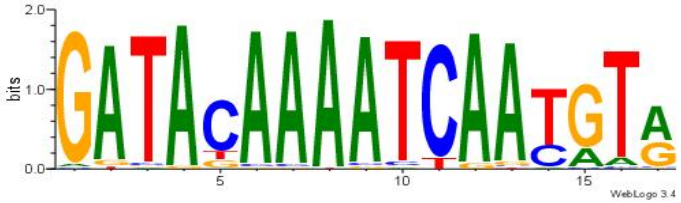

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

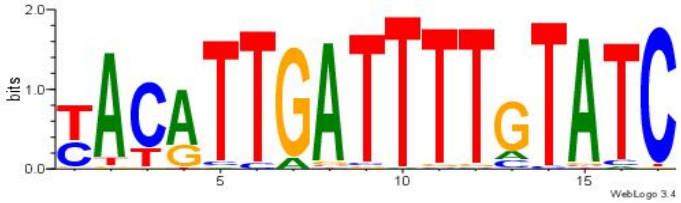

Dataset #:	1
Motif ID:	317
Motif name:	Motif 317
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.120434

Alignment:
ATGTTGTAGCATGT
GAGCTTTAAGATTT

Original motif Consensus sequence: ACATGCTACAACAT

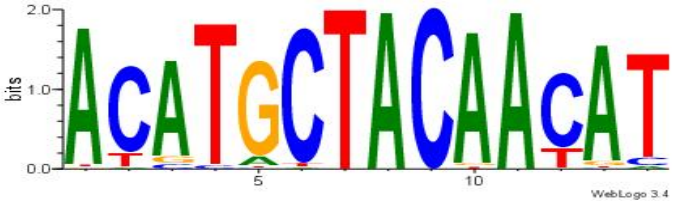

Reverse complement motif Consensus sequence: ATGTTGTAGCATGT

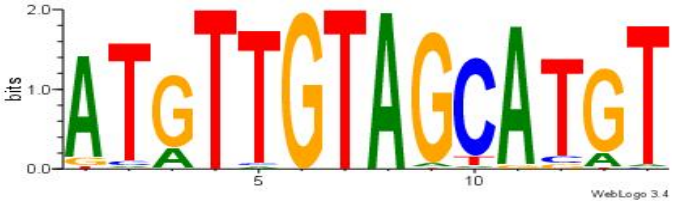

Dataset #: 1
Motif ID: 144
Motif name: Motif 144
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.121231

Alignment:
GGGCTCCCACAGTGCAGCGG
GAGCTTTAAGATTT------

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

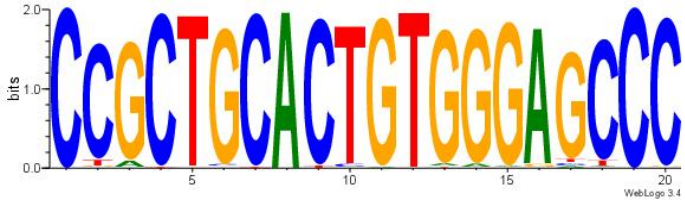

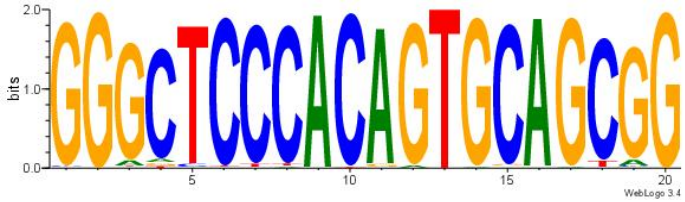

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.121331

Alignment:

```
CCACCACAGCTCAAGGAGGC
GAGCTTTAAGATTT------
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

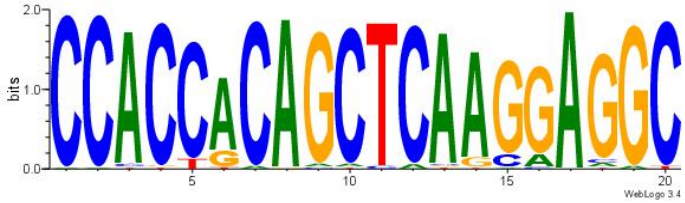

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

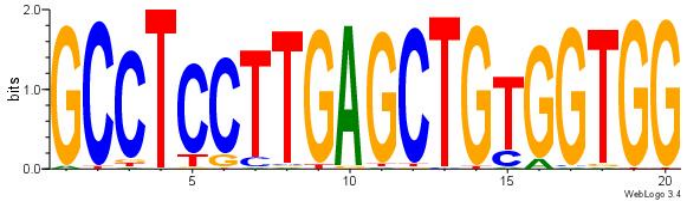

Dataset #: 1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.121764

Alignment:

```
GCAWSTGCAAAGGCCCT
-AAATCTTAAAGCTC--
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

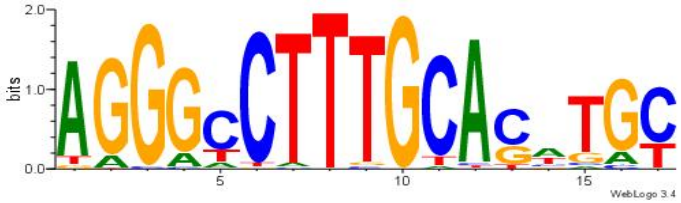

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

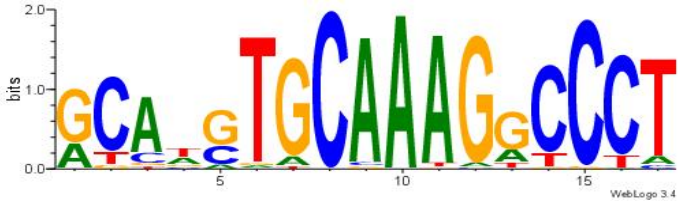

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.122016

Alignment:
CTATTGTGAATARTGCTGC
----GAGCTTTAAGATTT-

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

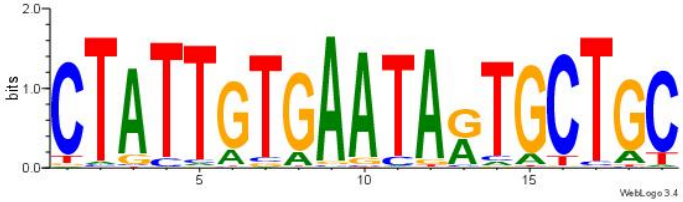

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

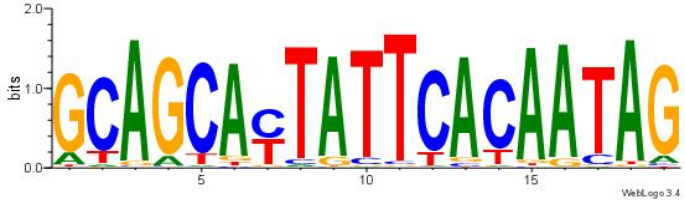

Dataset #: 1
Motif ID: 45
Motif name: Motif 45
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 14
Similarity score: 0.122247

Alignment:
CACTTTCCAGACTGGGCA
GAGCTTTAAGATTT----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

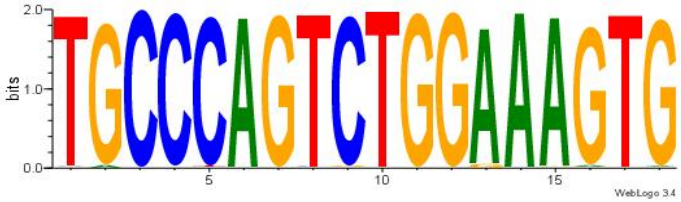

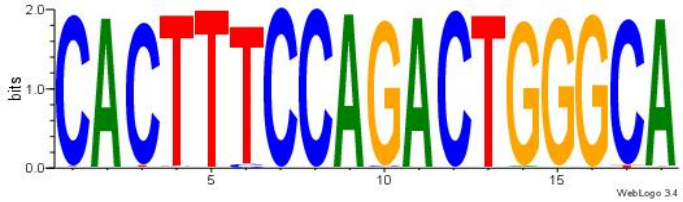

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.122677

Alignment:

```
TTGGAGGTTCTAGCAGGG
---GAGCTTTAAGATTT-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

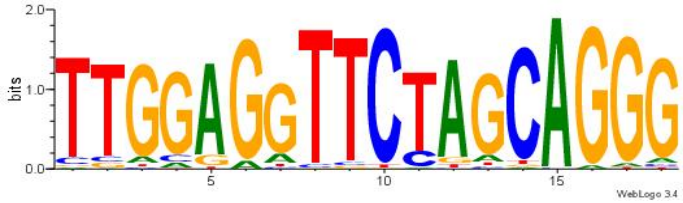

Dataset #: 1

Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.122881

Alignment:

```
BCVTCTGTCACCCC
AAATCTTAAAGCTC
```

Original motif Consensus sequence: GGGGTGACAGABGB

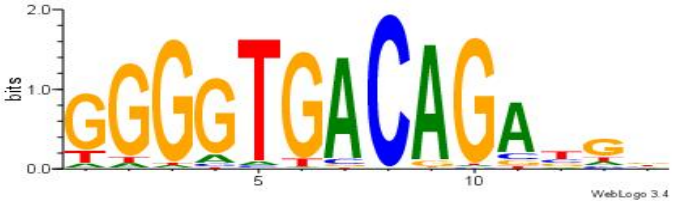

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

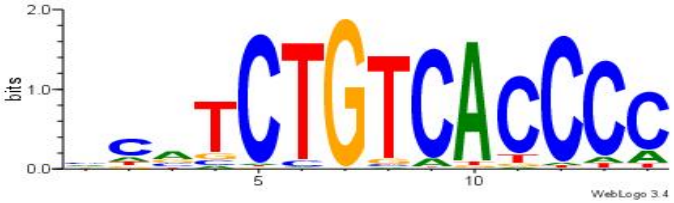

Dataset #: 1 Motif ID: 347 Motif name: Motif 347

Original motif Consensus sequence: ACACCTATTCGCACAC

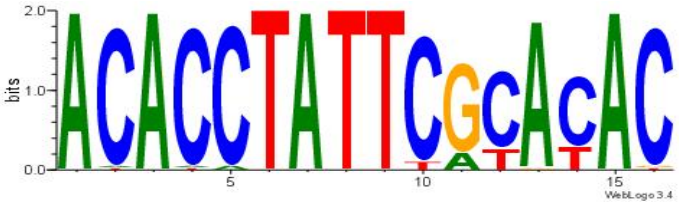

Reverse complement motif Consensus sequence: GTGTGCGAATAGGTGT

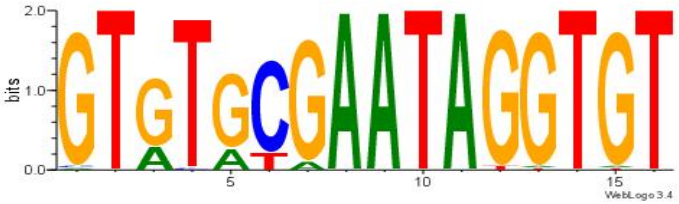

Best Matches for Motif ID 347 (Highest to Lowest)

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0719682

Alignment:
ACACACAYACACACACACA
ACACCTATTCGCACAC---

Original motif Consensus sequence: ACACACAYACACACACACA

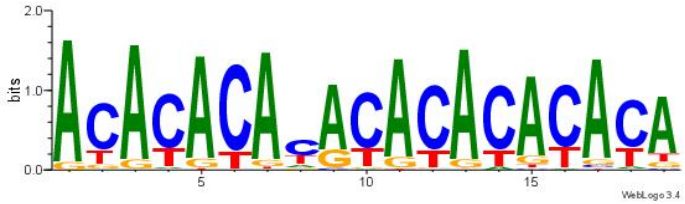

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

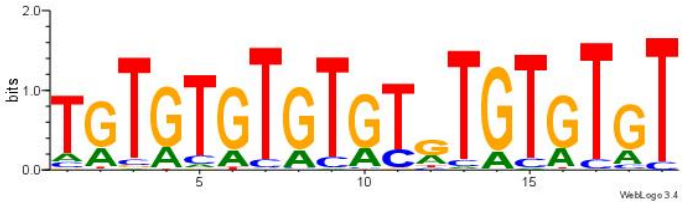

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0824744

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
--GTGTGCGAATAGGTGT--
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

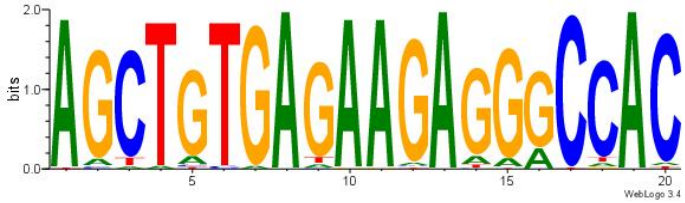

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

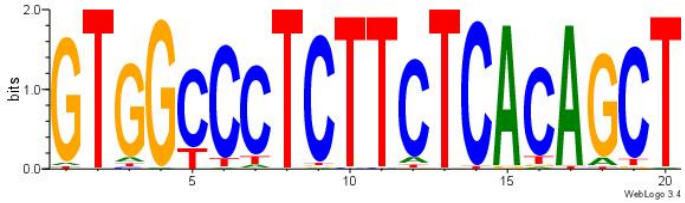

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0947322

Alignment:

```
CTGTTTGCCTGGGTATCA
GTGTGCGAATAGGTGT--
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

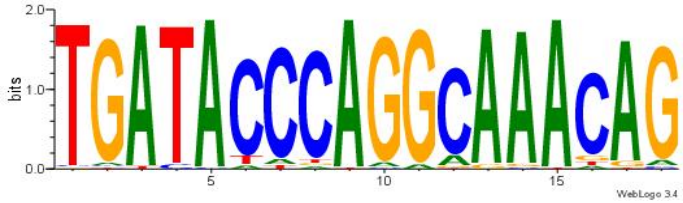

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

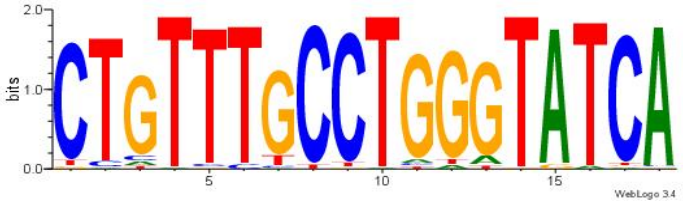

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0975498

Alignment:

```
GCACATGTAYCCYAGAACTT
--ACACCTATTCGCACAC--
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

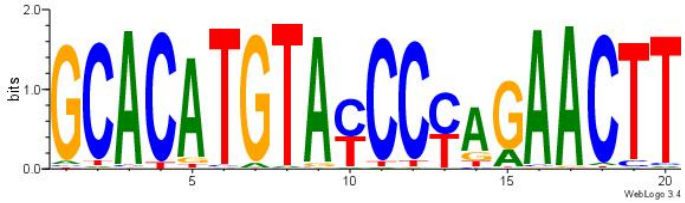

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

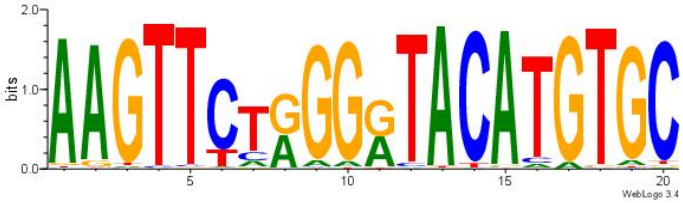

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.102565

Alignment:

```
CTATTGTGAATARTGCTGC
--GTGTGCGAATAGGTGT-
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

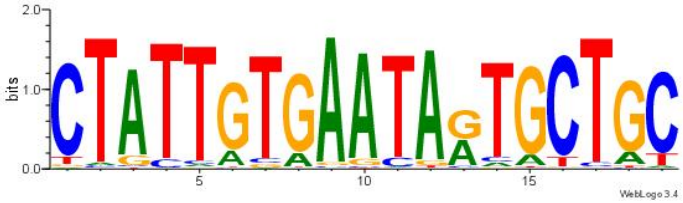

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

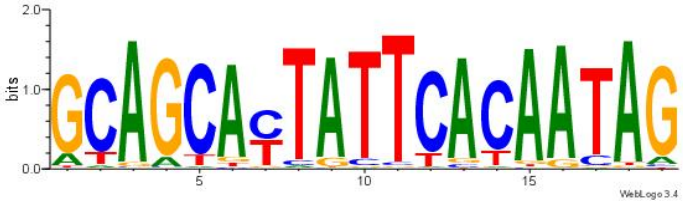

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.105963

Alignment:
AGCCCCGGTTCCCGCYCGC
-ACACCTATTCGCACAC--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

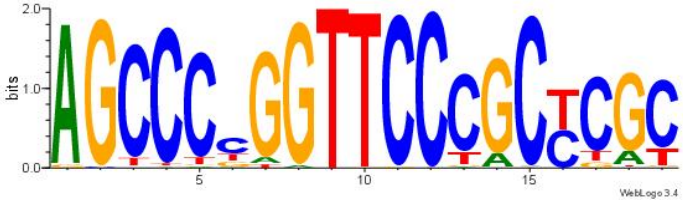

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

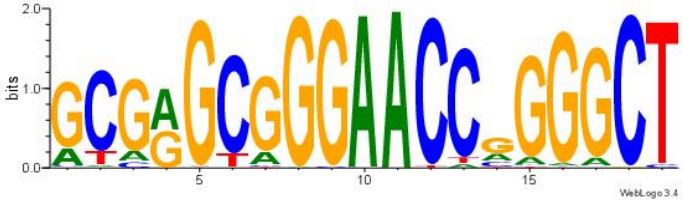

Dataset #: 1
Motif ID: 179
Motif name: Motif 179
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.106637

Alignment:
GAATACCTCCTGAAGGACCT
--ACACCTATTCGCACAC--

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

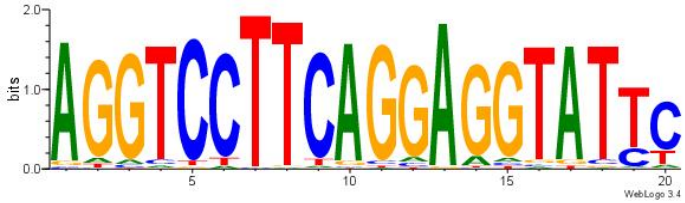

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

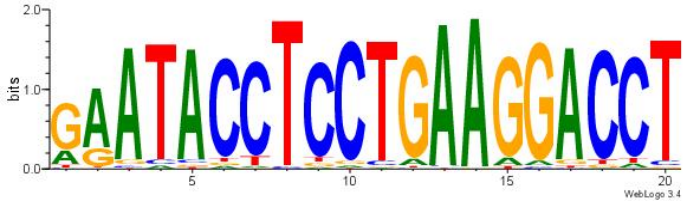

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.106929

Alignment:

```
CMCAGTTCACAATAGGGTT
---GTGTGCGAATAGGTGT
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

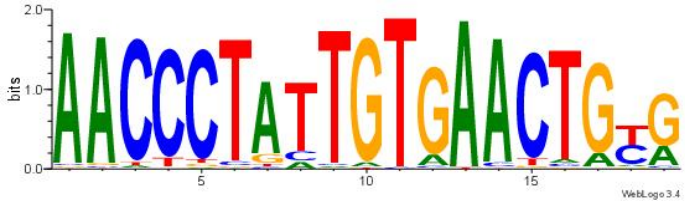

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

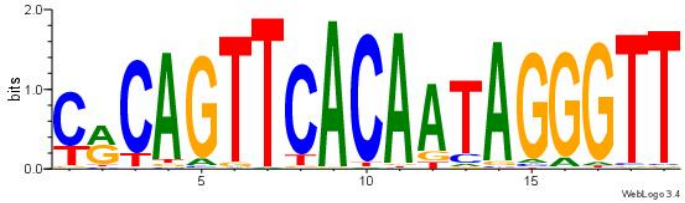

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.107127

Alignment:

```
AGCTCMKCCTCCTGTCAGAT
ACACCTATTCGCACAC----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

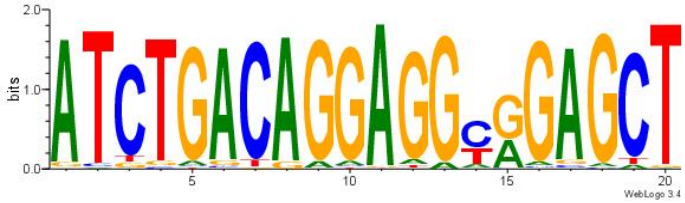

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

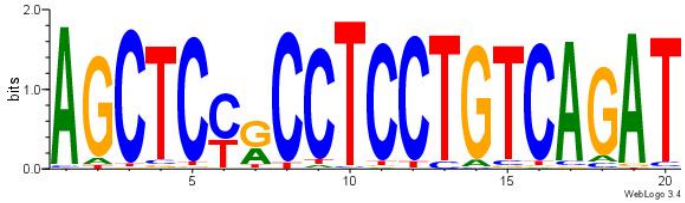

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 16
Similarity score: 0.108724

Alignment:
CTAGACATAAAGGTTCTCCA
--ACACCTATTCGCACAC--

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

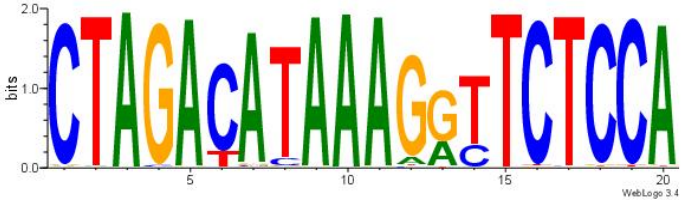

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

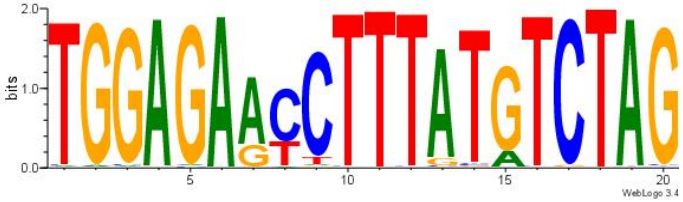

Dataset #: 1
Motif ID: 98
Motif name: Motif 98
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.109889

Alignment:
CCCACGCCCACCCGGAACT
ACACCTATTCGCACAC---

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

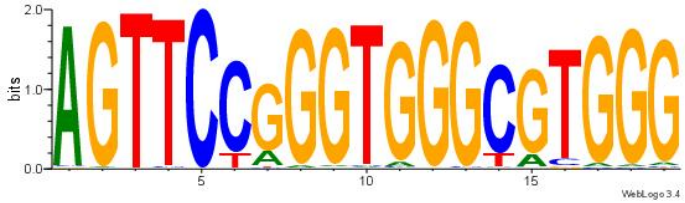

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

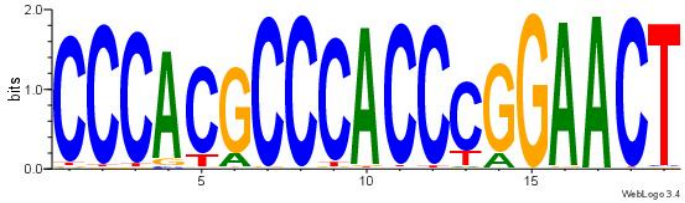

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.110652

Alignment:

```
TTGGTAGGATCCGTGATGCC
GTGTGCGAATAGGTGT----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

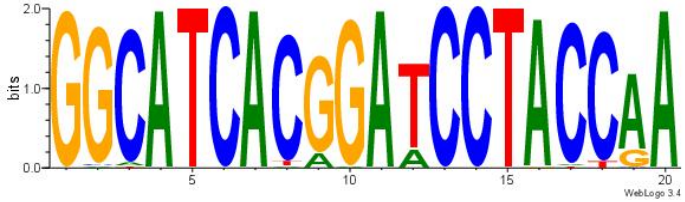

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

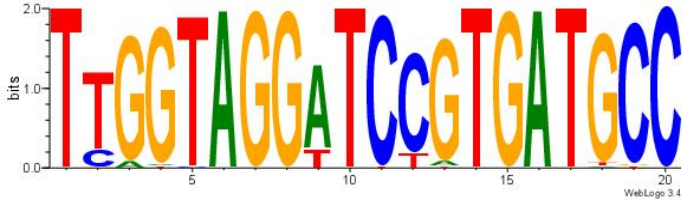

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.110909

Alignment:

```
ATGGACAYTTRGGTTGHTTC
----GTGTGCGAATAGGTGT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

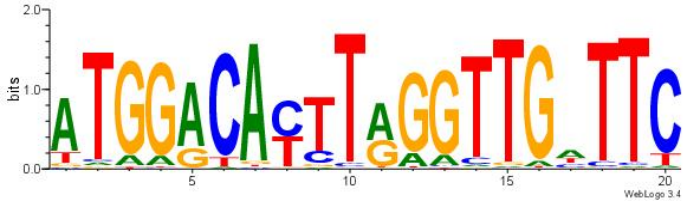

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

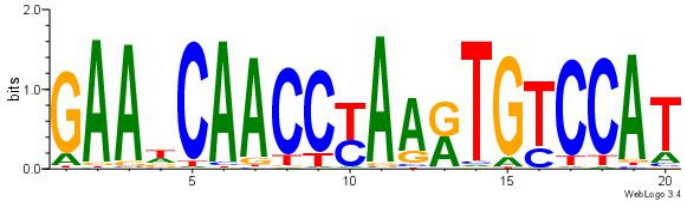

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 16
Similarity score: 0.111169

Alignment:
ATGGAATAYTATTCAGCCAT
----ACACCTATTCGCACAC

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

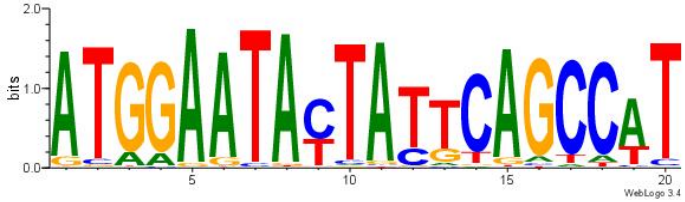

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

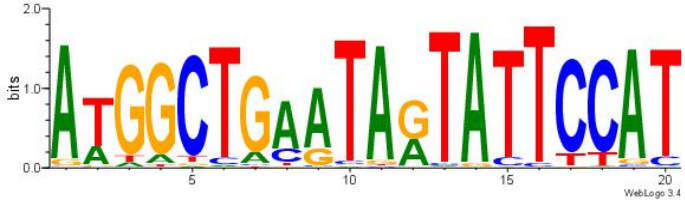

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.111708

Alignment:
ARCTCCTGKSCTCAAGKGAT
---ACACCTATTCGCACAC-

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

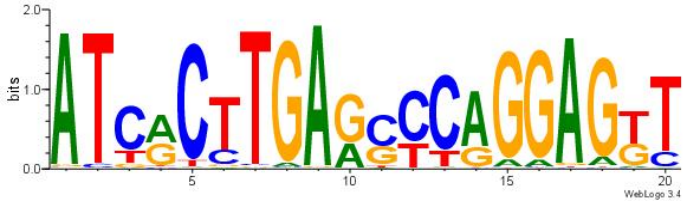

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

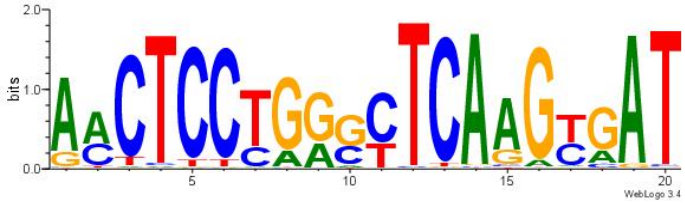

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.111781

Alignment:

```
GCCTCTCCCTCCACACCTCC
ACACCTATTCGCACAC----
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

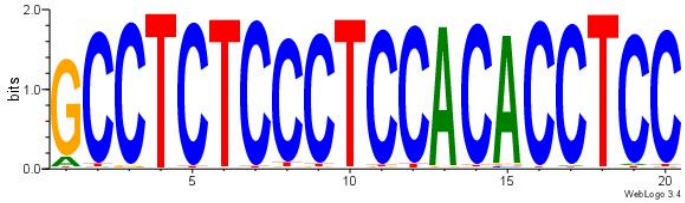

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

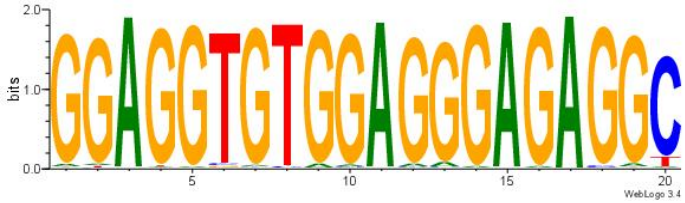

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0.113859

Alignment:

```
TTGTCCCACTGGAAGGTCTT
GTGTGCGAATAGGTGT----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

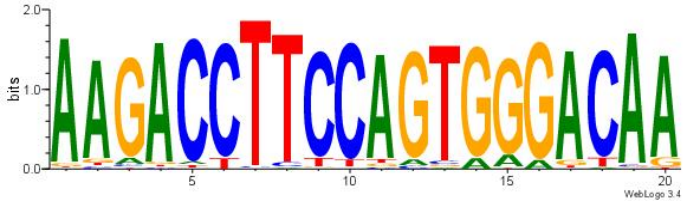

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

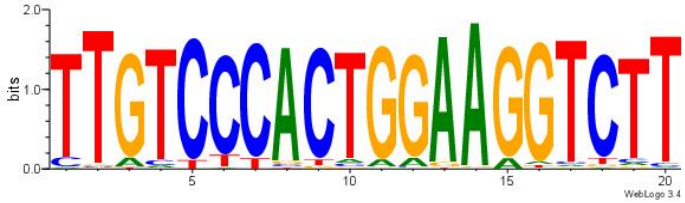

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.115083

Alignment:
GTTTAACCATTGAGGGCCAG
GTGTGCGAATAGGTGT----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

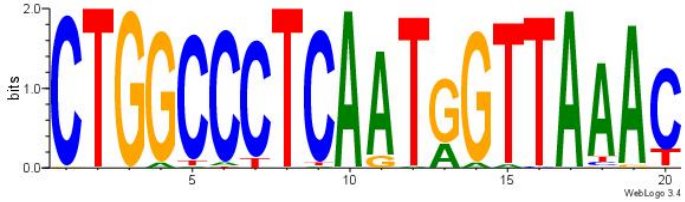

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

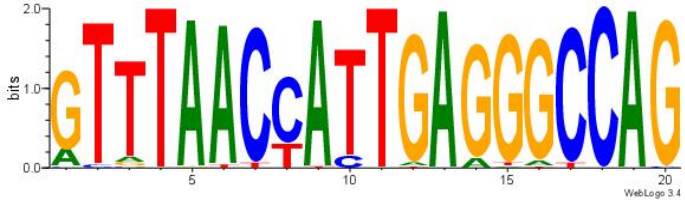

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.115182

Alignment:
CACCAGACTCAGGAGCCCAG
ACACCTATTCGCACAC----

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

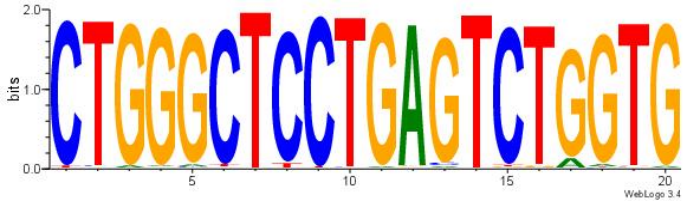

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

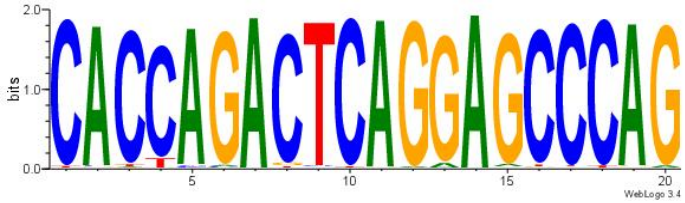

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.11543

Alignment:

```
TWTACCTATGTAACAAACCT
---ACACCTATTCGCACAC-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

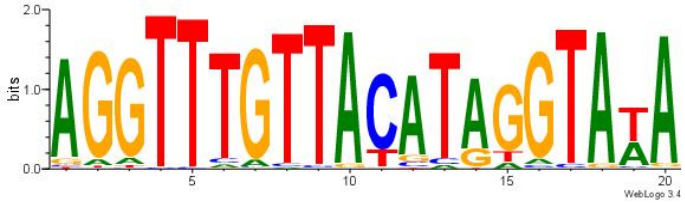

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

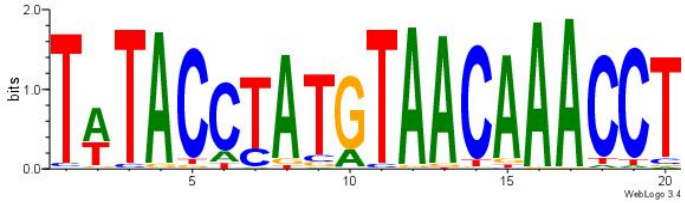

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.115657

Alignment:

```
AAGCTCGAACTGGGTGGAGC
---GTGTGCGAATAGGTGT-
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

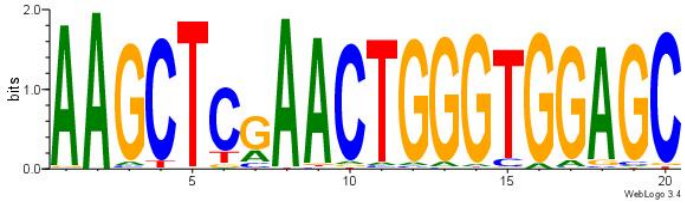

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

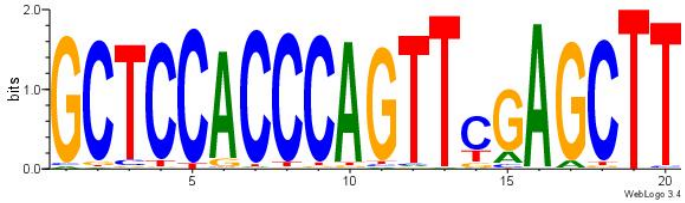

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

Number of overlap: 16
Similarity score: 0.115995

Alignment:
TTMGTCCCAGAGGGGCACC
GTGTGCGAATAGGTGT---

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

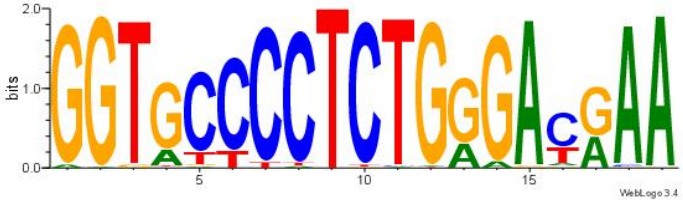

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

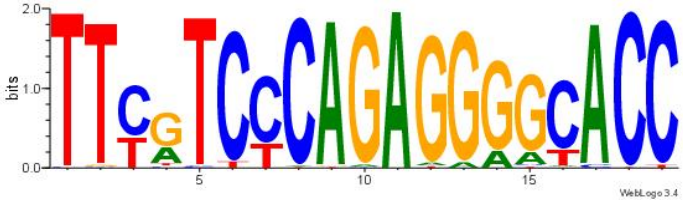

Dataset #: 1
Motif ID: 117
Motif name: Motif 117
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.117218

Alignment:
AACAACAACAACAAMAA
-ACACCTATTCGCACAC

Original motif Consensus sequence: AACAACAACAACAAMAA

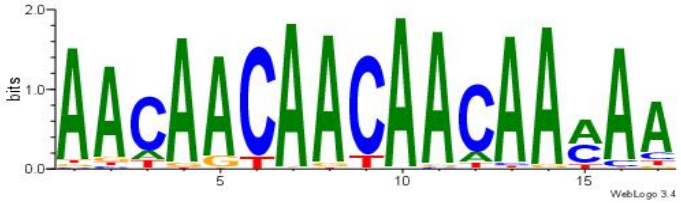

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

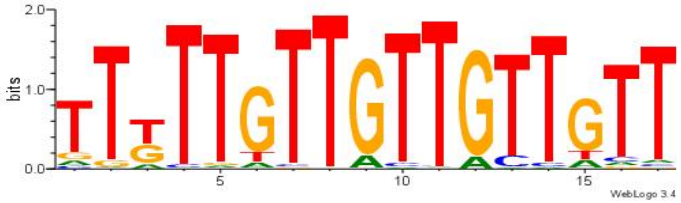

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.117425

Alignment:

```
CTTGCCCAAGGTCACACAGC
---ACACCTATTCGCACAC-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

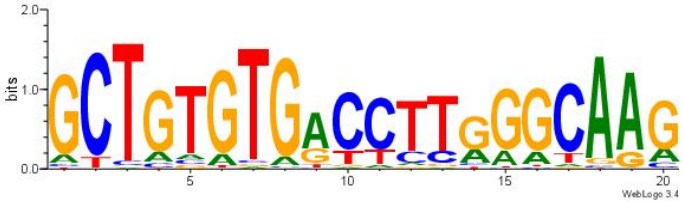

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

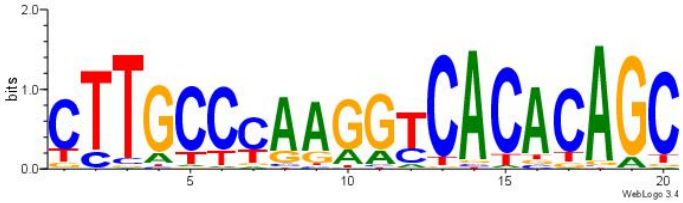

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.11754

Alignment:

```
TACCTGAGACTGGGTAATTT
-GTGTGCGAATAGGTGT---
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

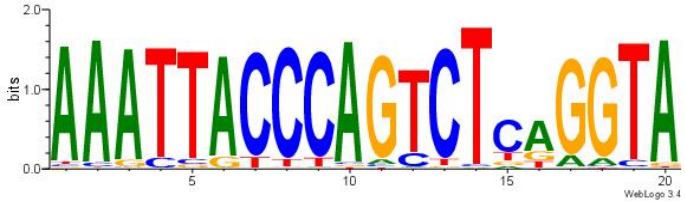

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

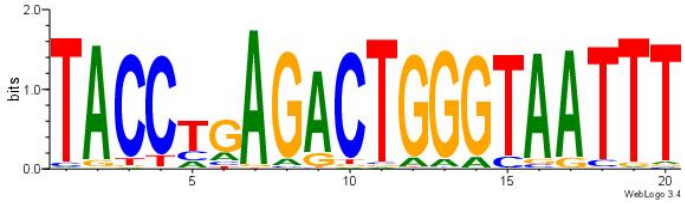

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

Number of overlap: 16
Similarity score: 0.118948

Alignment:
AGGGCCTTTGCASWTGC
-ACACCTATTCGCACAC

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

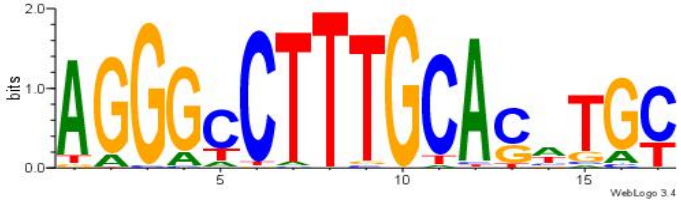

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

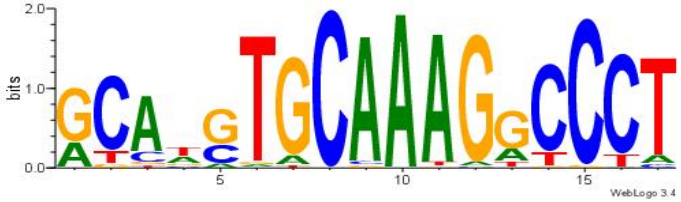

Dataset #: 1
Motif ID: 154
Motif name: Motif 154
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.119879

Alignment:
CATTAGATTCTCATAGGA
ACACCTATTCGCACAC--

Original motif Consensus sequence: CATTAGATTCTCATAGGA

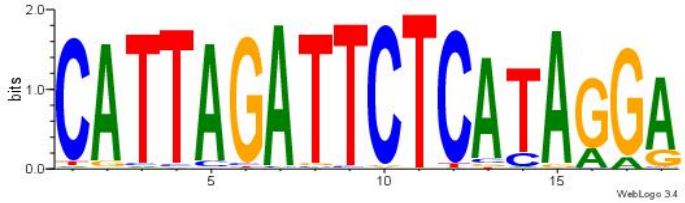

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

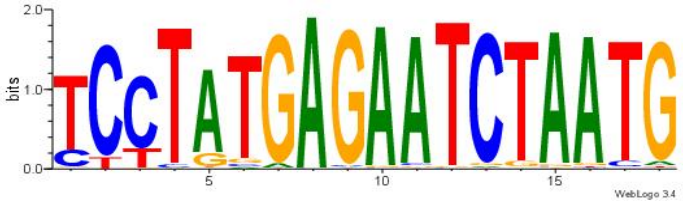

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.119962

Alignment:

```
ATCTCASAAATCACCACTA
---ACACCTATTCGCACAC
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

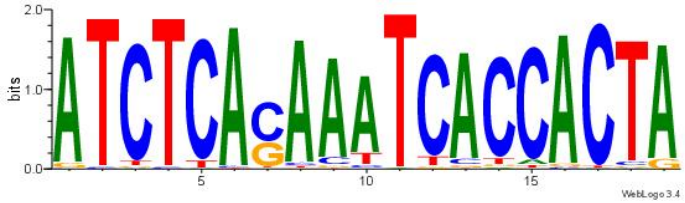

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

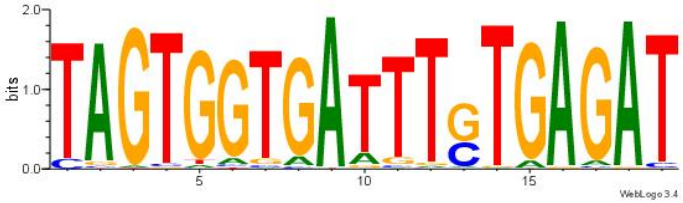

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.120416

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
----GTGTGCGAATAGGTGT
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

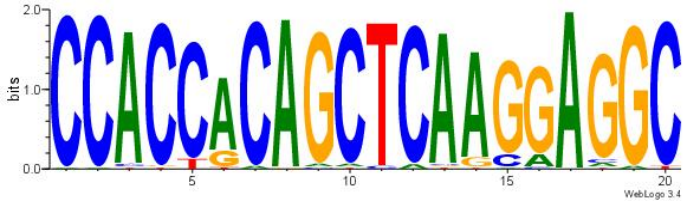

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

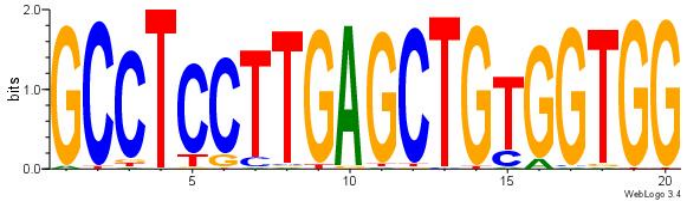

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

Number of overlap: 16
Similarity score: 0.120657

Alignment:
KACATTGATTTTGTATC
ACACCTATTCGCACAC-

Original motif Consensus sequence: GATACAAAATCAATGTR

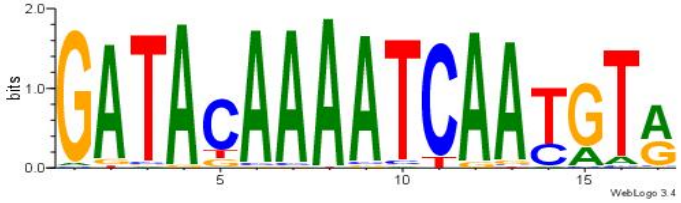

Reverse complement motif Consensus sequence: KACATTGATTTTGTATC

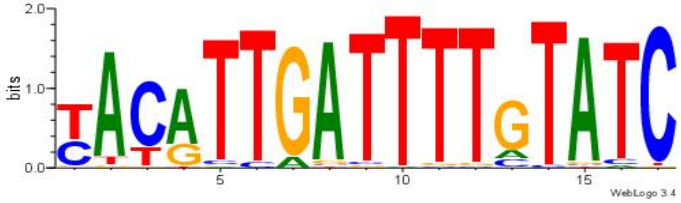

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.121133

Alignment:
AGACAGTGGGYGCAGGHCA
GTGTGCGAATAGGTGT---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

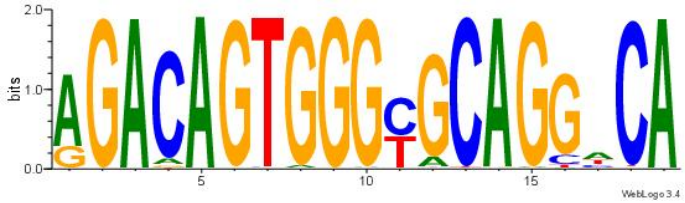

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

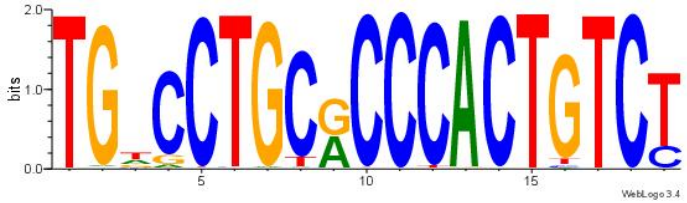

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.121421

Alignment:

```
AGTGAGAACATRYRRTRTTT
---GTGTGCGAATAGGTGT-
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

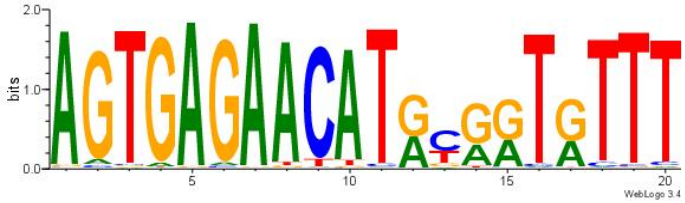

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

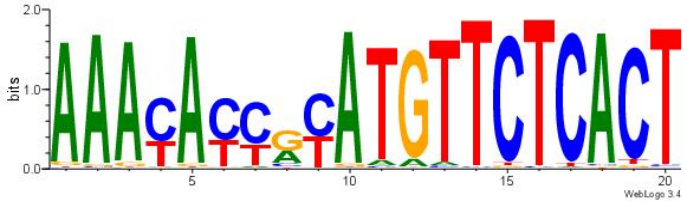

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.121512

Alignment:

```
GAAAGGGAACTCCCTGACCC
--ACACCTATTCGCACAC--
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

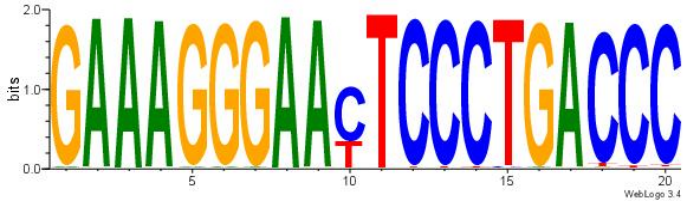

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

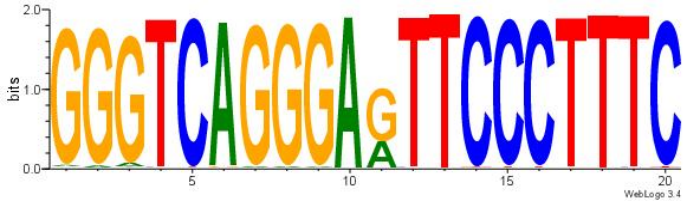

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.121618

Alignment:
GAAACTGCTTTGTGATGTGT
----GTGTGCGAATAGGTGT

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

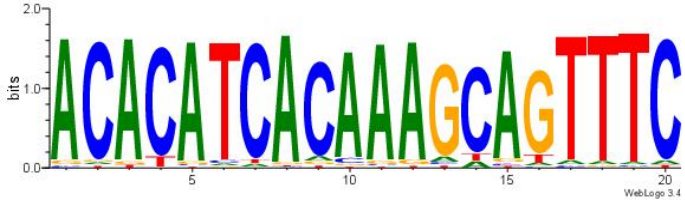

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

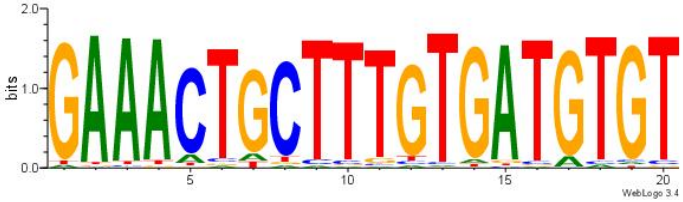

Dataset #: 1
Motif ID: 336
Motif name: Motif 336
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 16
Similarity score: 0.121752

Alignment:
CAGGTGGTKTTTGGTTACAT
-GTGTGCGAATAGGTGT---

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

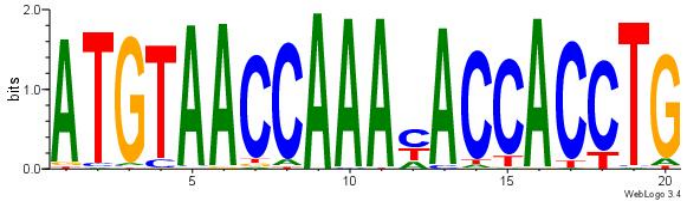

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

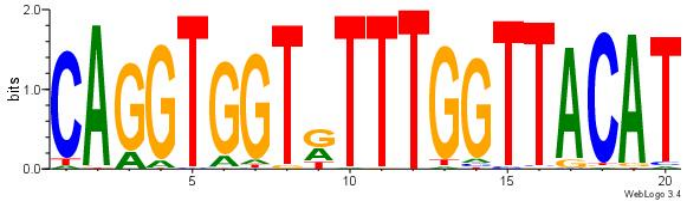

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.121884

Alignment:

```
TCCAAATGGGAGAAATTGGC
-GTGTGCGAATAGGTGT---
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

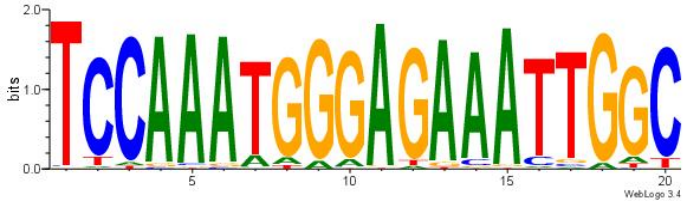

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

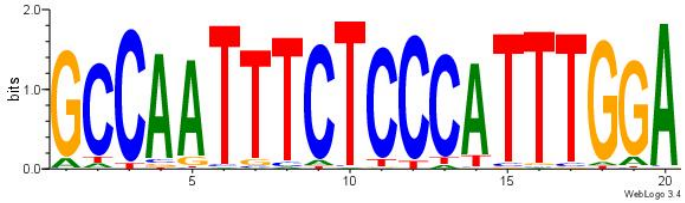

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.121906

Alignment:

```
AACAACASACACTGGGGCCT
ACACCTATTCGCACAC----
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

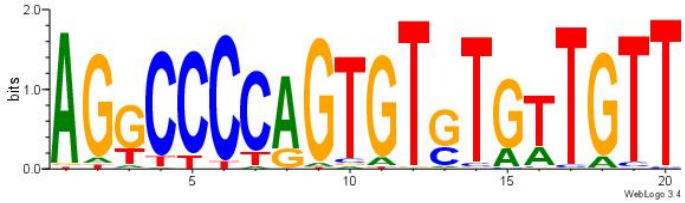

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

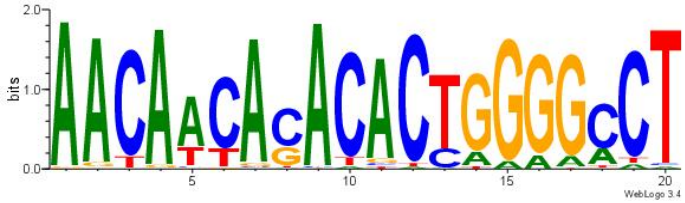

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.122602

Alignment:
AAGGAACAAACTCCRGACAC
----ACACCTATTCGCACAC

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

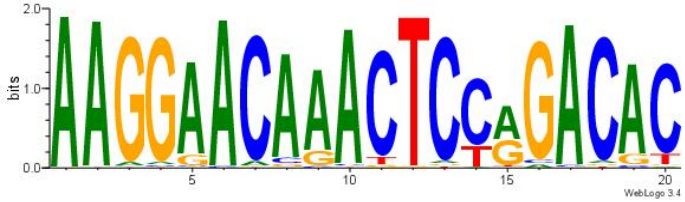

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

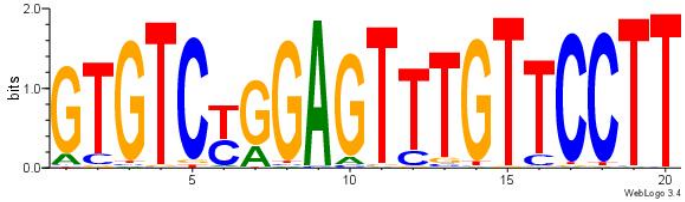

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.123068

Alignment:
GCGCTCKTCGGGGAGGCTCG
GTGTGCGAATAGGTGT----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

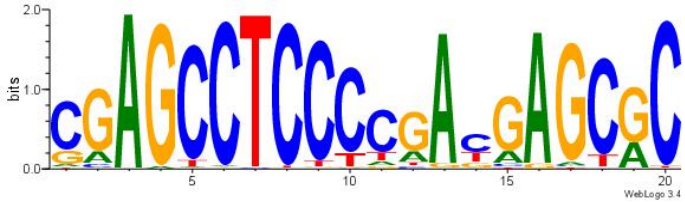

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

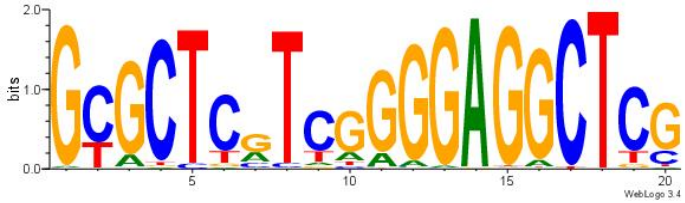

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.123207

Alignment:

```
AAGTCTCCCAATTACAACT
ACACCTATTCGCACAC---
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

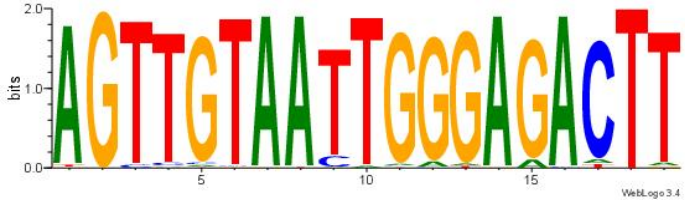

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

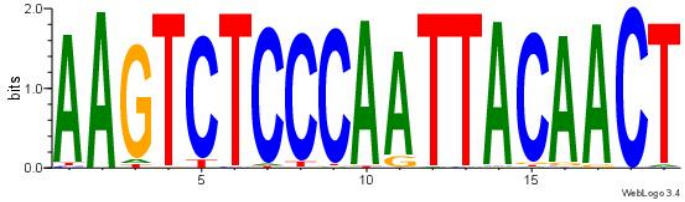

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.12342

Alignment:

```
CCCAAATCTCATSTTGAAT
---ACACCTATTCGCACAC
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

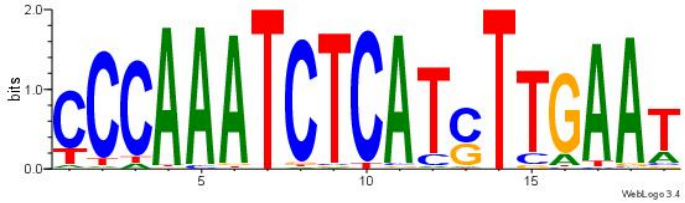

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

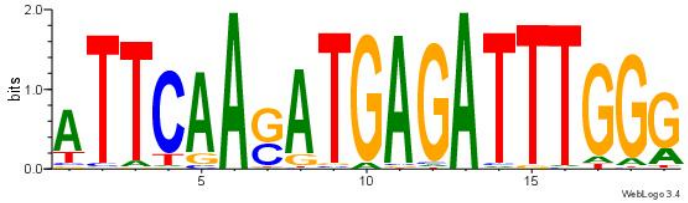

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

Number of overlap: 16
Similarity score: 0.123611

Alignment:
GACATGAGCTGGCGCTTG
-ACACCTATTCGCACAC-

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

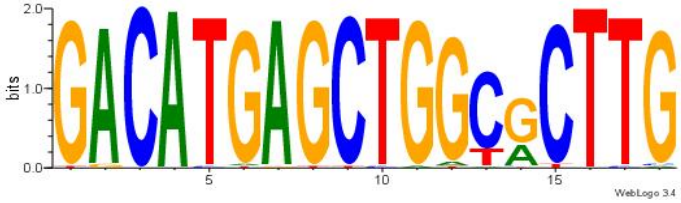

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

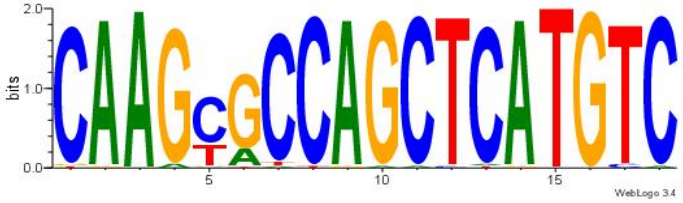

Dataset #: 1
Motif ID: 356
Motif name: Motif 356
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.124007

Alignment:
AATTAAAAGACACAGACTG
-ACACCTATTCGCACAC--

Original motif Consensus sequence: AATTAAAAGACACAGACTG

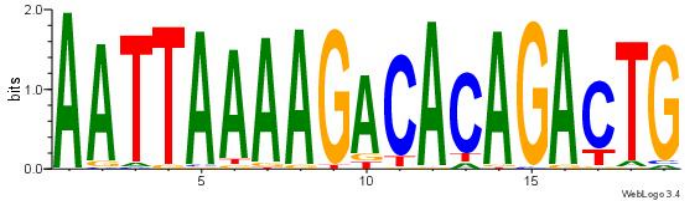

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

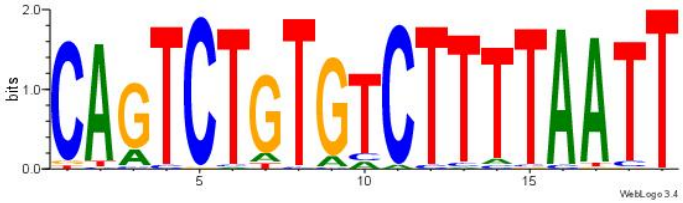

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.124093

Alignment:

```
AAAATCACAAGCATTCCTAT
ACACCTATTCGCACAC----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

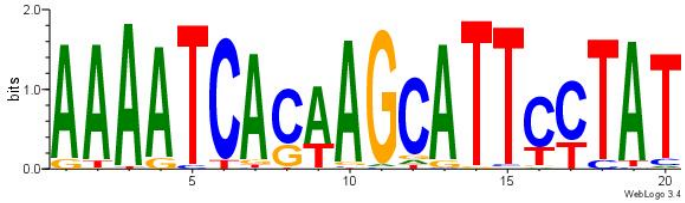

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

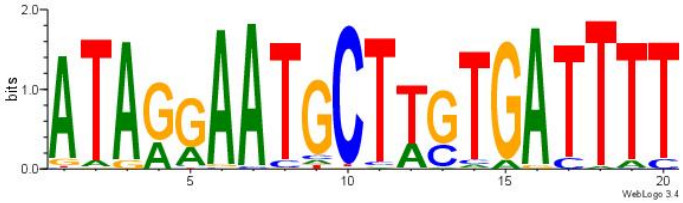

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.12412

Alignment:

```
AAAATGTGGTAYATAYAYAC
----ACACCTATTCGCACAC
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

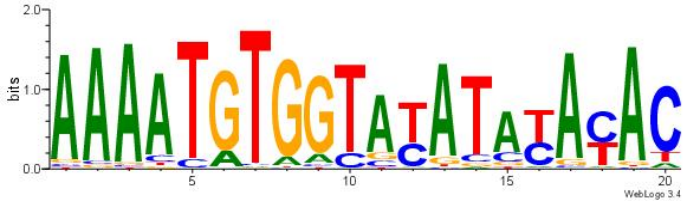

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

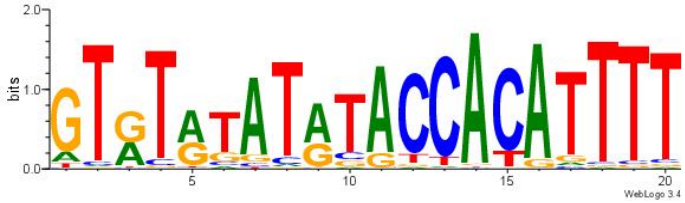

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

Number of overlap: 16
Similarity score: 0.12418

Alignment:
ACTGTCTTCCACCTCCACAT
----ACACCTATTCGCACAC

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

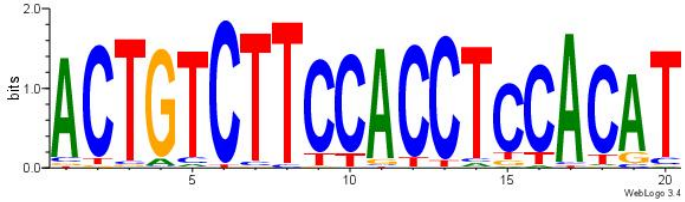

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

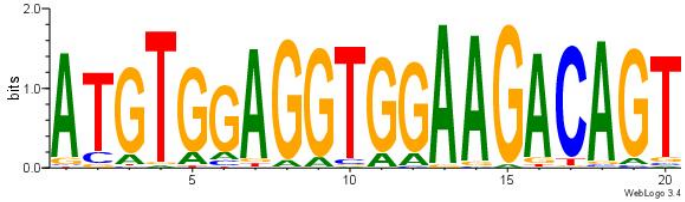

Dataset #: 1
Motif ID: 224
Motif name: Motif 224
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.124243

Alignment:
AATGAGTTAAGACTTTG
GTGTGCGAATAGGTGT-

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

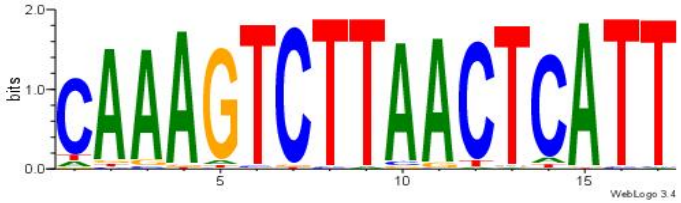

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.124442

Alignment:

```
KACGGGCTTAARAAACGGC
---ACACCTATTCGCACAC
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

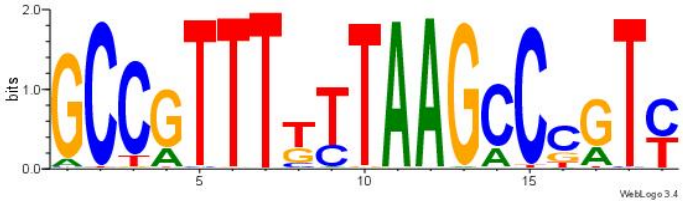

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

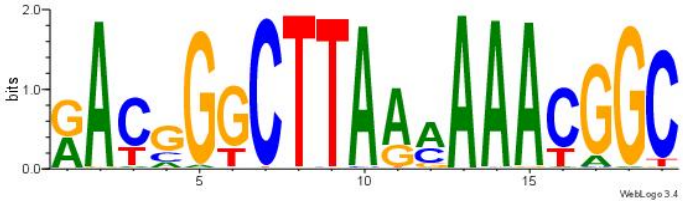

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.124666

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
---ACACCTATTCGCACAC-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

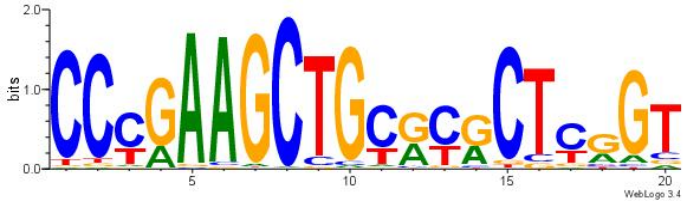

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

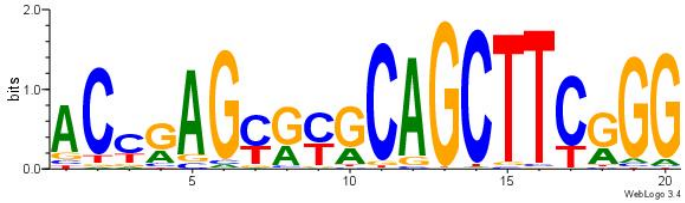

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4

Number of overlap: 16
Similarity score: 0.124715

Alignment:
ACTCAGCCCRCCTGCACCC
---ACACCTATTCGCACAC

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

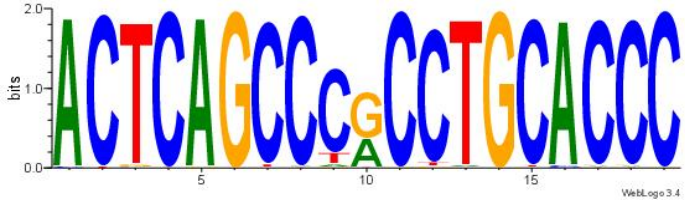

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

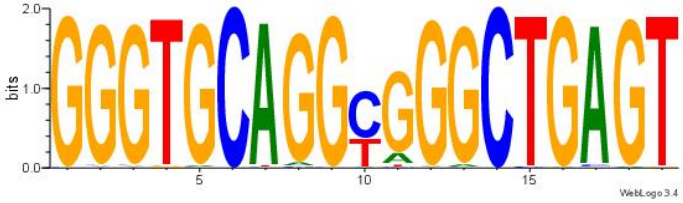

Dataset #: 1 Motif ID: 348 Motif name: Motif 348

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

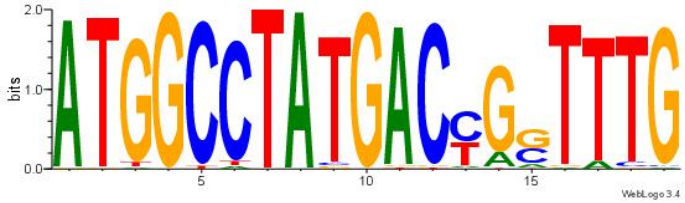

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

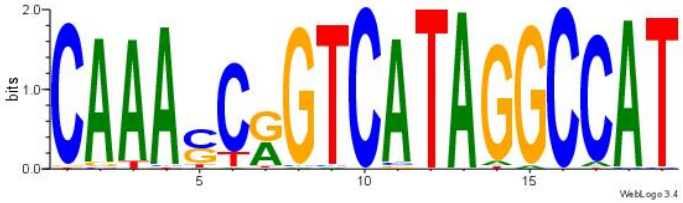

Best Matches for Motif ID 348 (Highest to Lowest)

Dataset #: 1
Motif ID: 192
Motif name: Motif 192

Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.115392

Alignment:
ACAGGCTGTCCCAGGATTC
ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

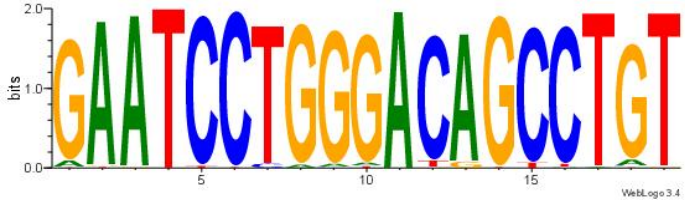

Reverse complement motif Consensus sequence:
ACAGGCTGTCCCAGGATTC

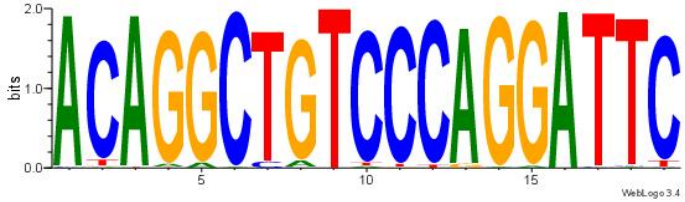

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.117513

Alignment:
ACATCMTCTGAAATCTAGG
ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

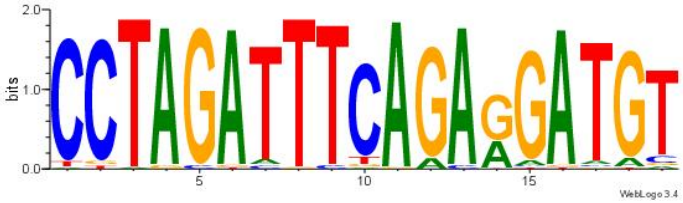

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

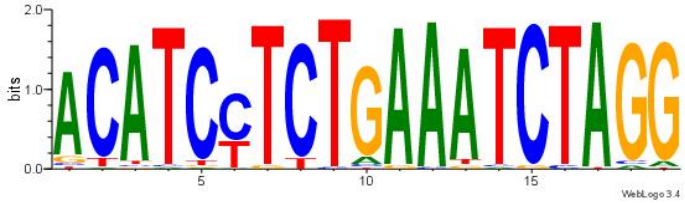

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.118

Alignment:
CAAGCCTSKGCAATGGCAGG
CAAASCKGTCATAGGCCAT-

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

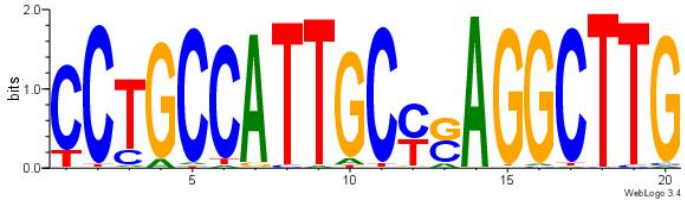

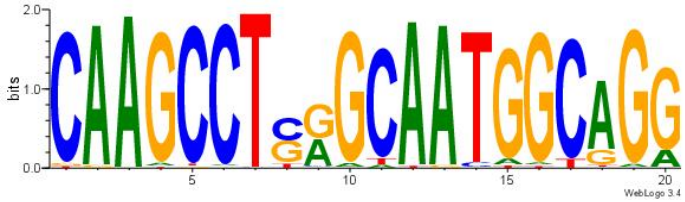

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.120128

Alignment:

```
GAATACCTCCTGAAGGACCT
-CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

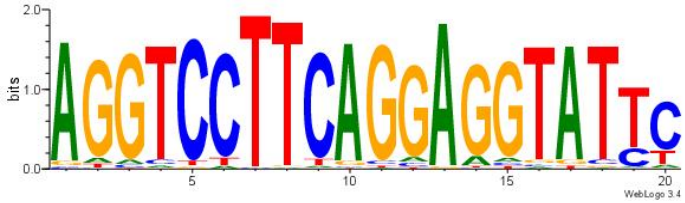

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

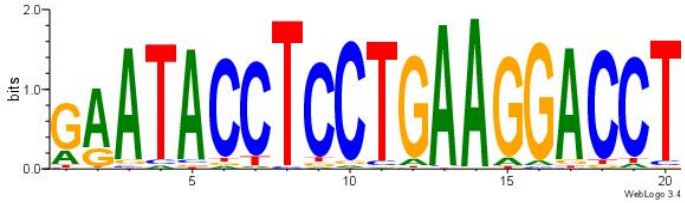

Dataset #: 1

Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.120655

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
-ATGGCCTATGACYGSTTTG
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

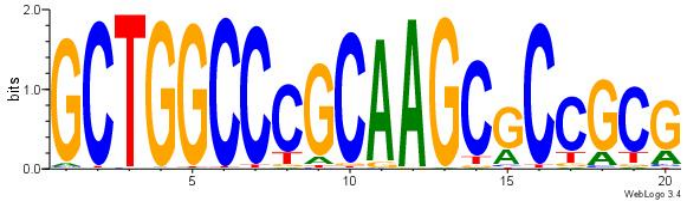

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

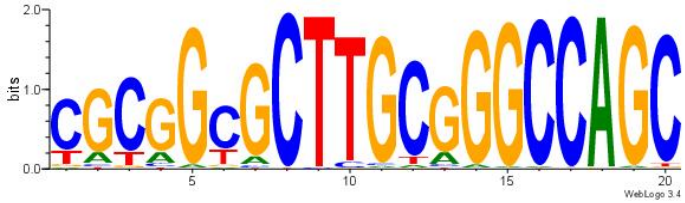

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.126244

Alignment:
AAGTTCTKGGKTACATGTGC
-ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

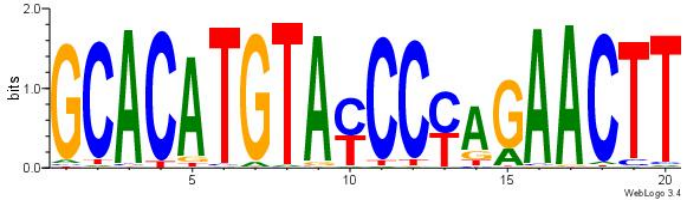

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

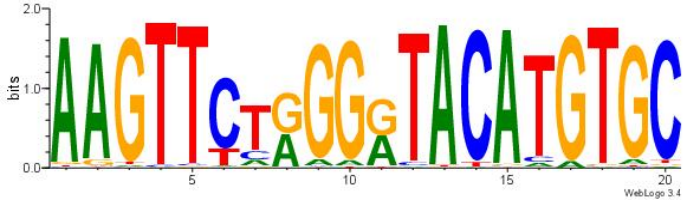

Dataset #: 1
Motif ID: 330
Motif name: Motif 330
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.128659

Alignment:
AAAACCAGCAAGTTTTTAT
CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

Reverse complement motif Consensus sequence:
ATAAAAACTTGCTGGTTTT

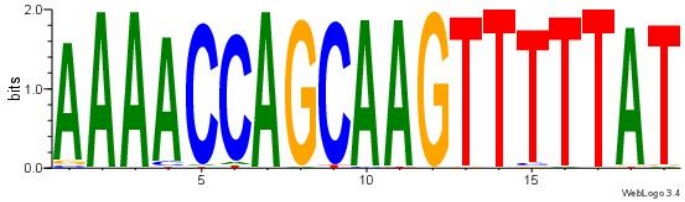

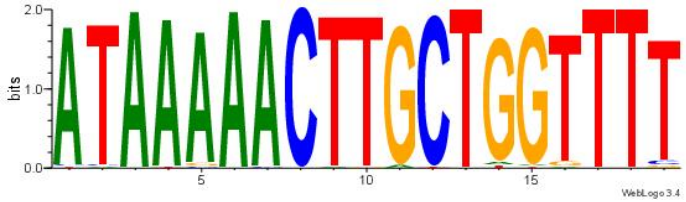

Dataset #:	1
Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.130319

Alignment:

```
CGGCGCTGMGCTCGATTTCT
-ATGGCCTATGACYGSTTTG
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

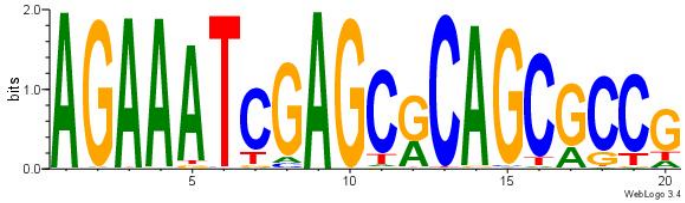

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

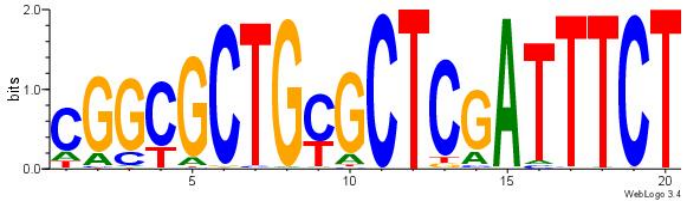

Dataset #:	1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.130687

Alignment:

```
GAAHCAACCKAAKTGTCCAT
-CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

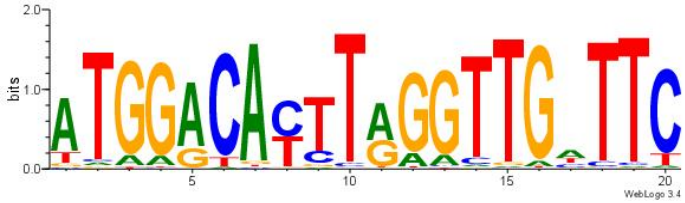

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

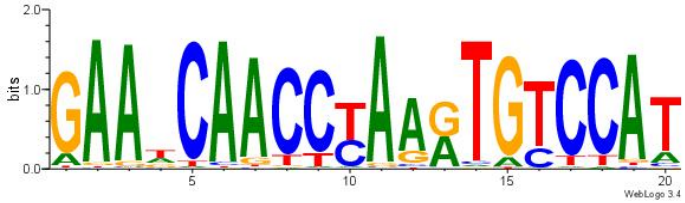

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.131099

Alignment:
CTGGGCTCCTGAGTCTGGTG
-ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

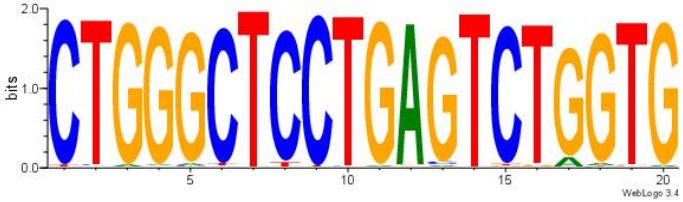

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

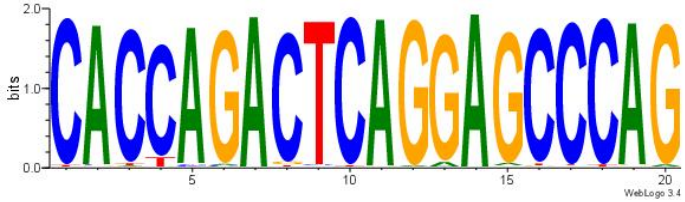

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.132879

Alignment:
ATTCAASATGAGATTTGGG
ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

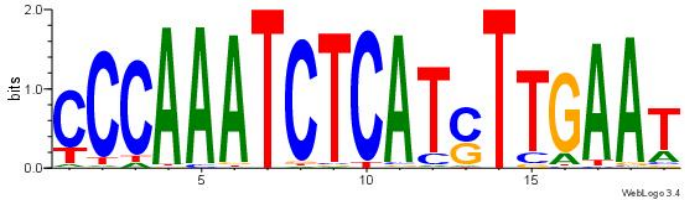

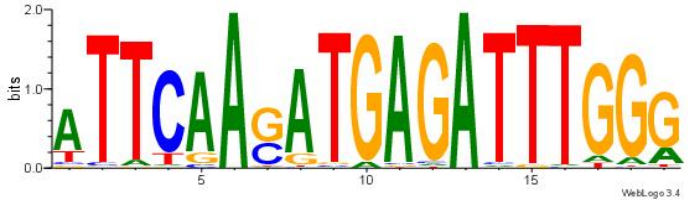

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.133033

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
ATGGCCTATGACYGSTTTG-
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

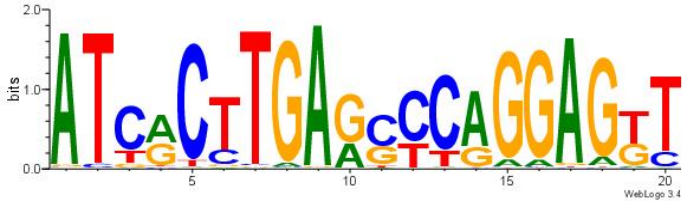

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

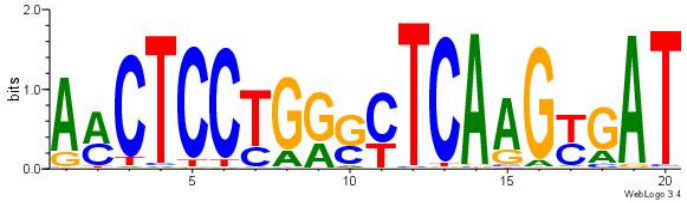

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.134436

Alignment:

```
AAGACCTTCCAGTGGGACAA
ATGGCCTATGACYGSTTTG-
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

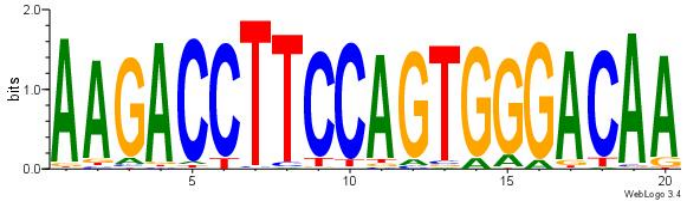

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

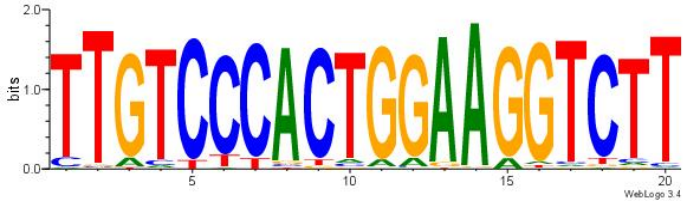

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.134507

Alignment:
ATGGAATAYTATTCAGCCAT
ATGGCCTATGACYGSTTTG-

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

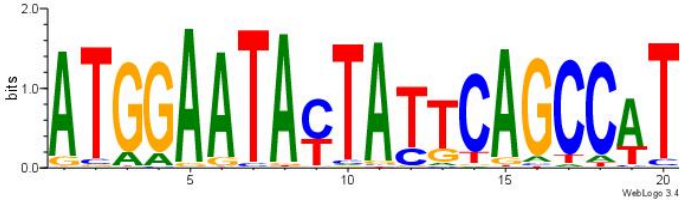

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

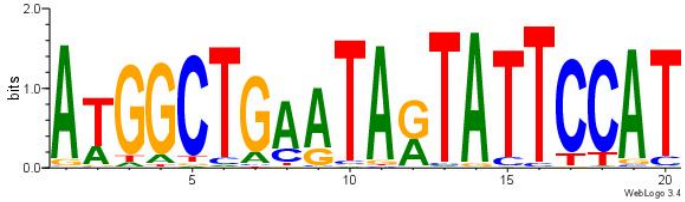

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.134611

Alignment:
GAAGGCAGCTAAGGCCCGGY
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

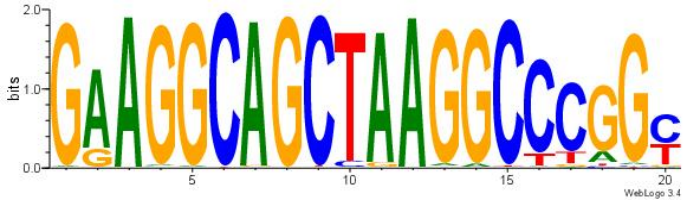

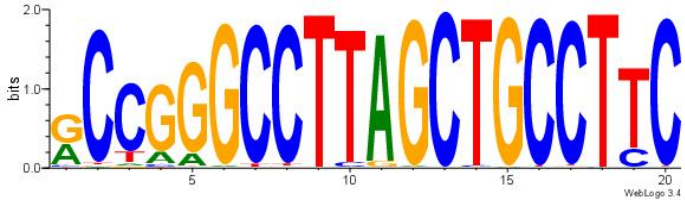

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.134856

Alignment:

```
AGGCTGTTTTACAGTTAAC
ATGGCCTATGACYGSTTTG
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

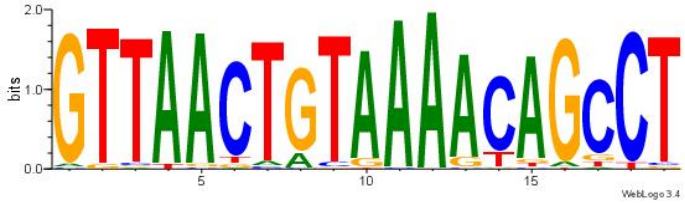

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

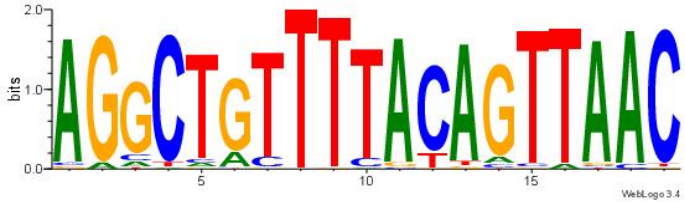

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.135089

Alignment:

```
KKCACCTTGATCTTGGACTT
-CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

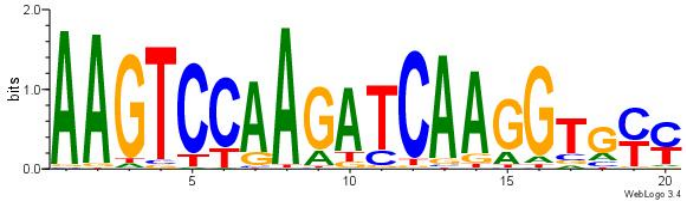

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

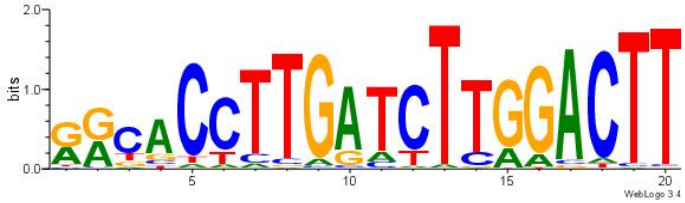

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.135157

Alignment:
TGAGKCAATTAAACCTCTT
ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

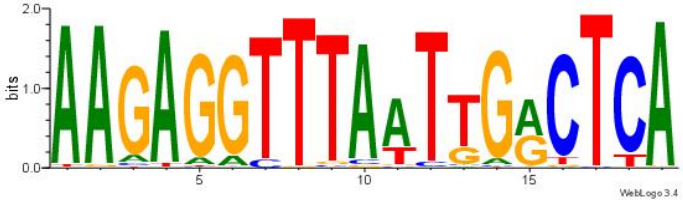

Reverse complement motif Consensus sequence:
TGAGKCAATTAAACCTCTT

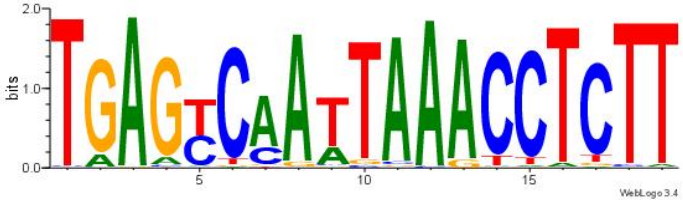

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.135163

Alignment:
CAAGGGTATAYGAGTAGCTG
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

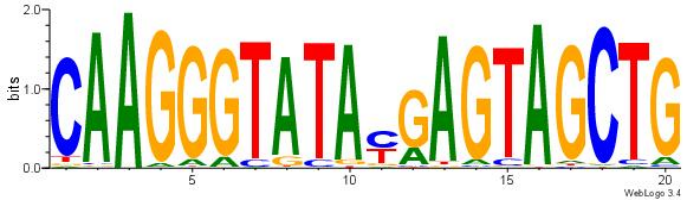

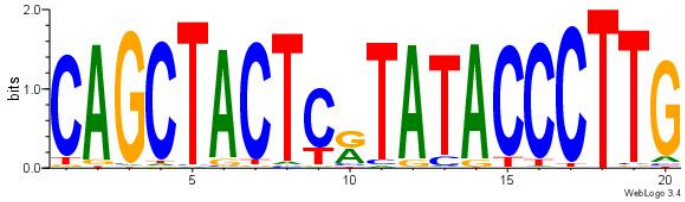

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.135347

Alignment:

```
TAAAAGACTACAWATTGGGT
CAAASCKGTCATAGGCCAT-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

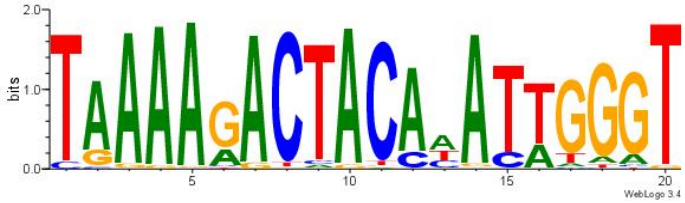

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

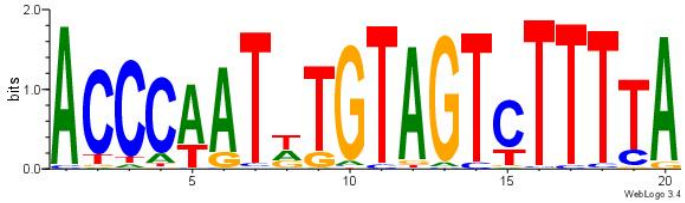

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.136461

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-ATGGCCTATGACYGSTTTG
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

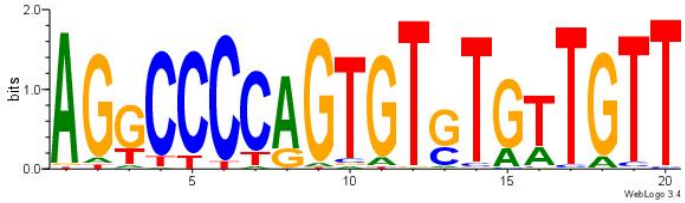

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

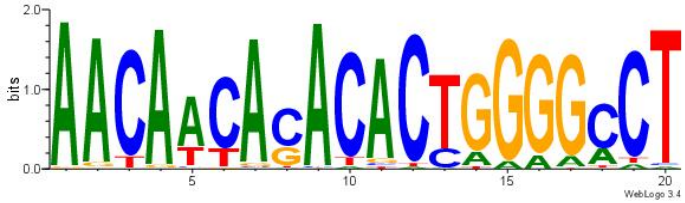

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.13663

Alignment:
CTGGCCCTCAATGGTTAAAC
ATGGCCTATGACYGSTTTG-

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

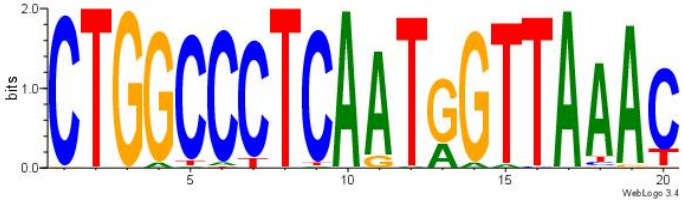

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

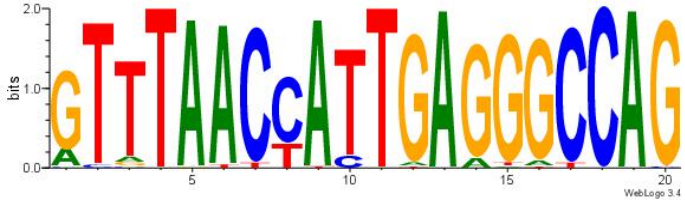

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.136795

Alignment:
CTCAGTGTTAATCTCCTGTC
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence:
GACAGGAGATTAACACTGAG

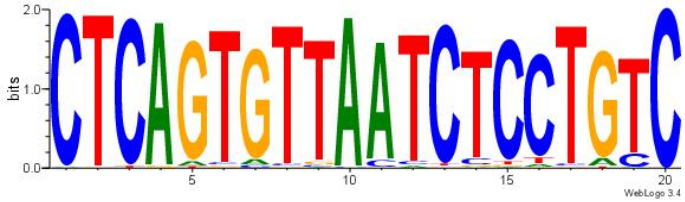

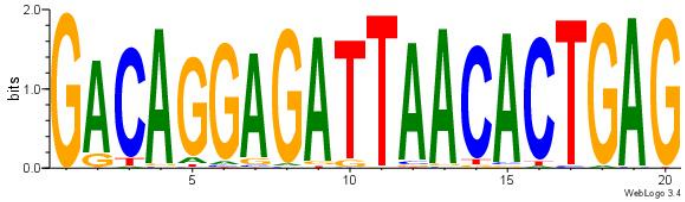

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.13728

Alignment:

```
TTCAMTCATGATTTGGCTCT
-CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

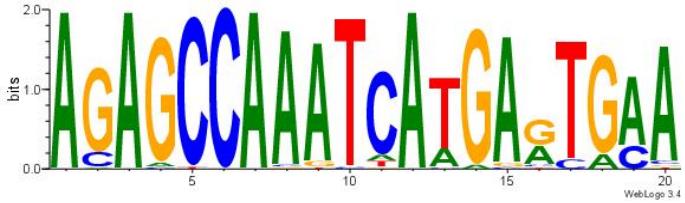

Reverse complement motif Consensus sequence:
TTCAMTCATGATTTGGCTCT

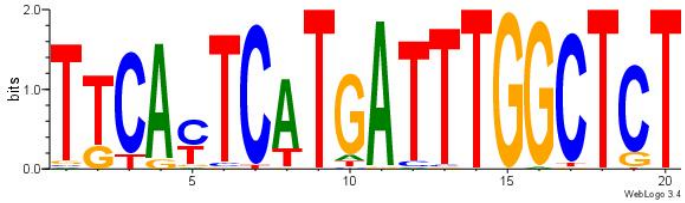

Dataset #: 1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.137415

Alignment:

```
CTTGCCCAAGGTCACACAGC
-ATGGCCTATGACYGSTTTG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

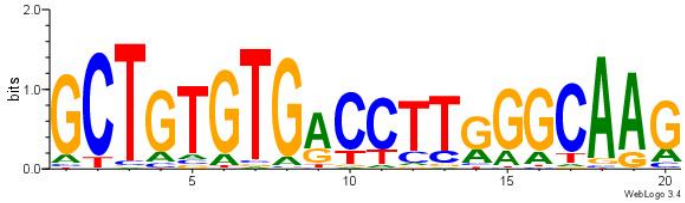

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

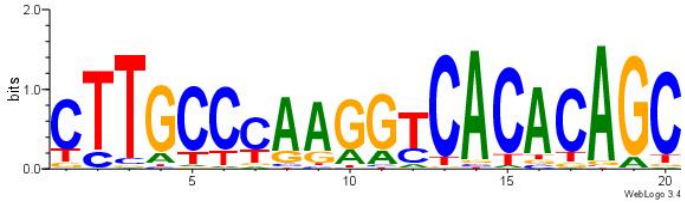

Dataset #:	1
Motif ID:	2
Motif name:	Motif 2
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.137831

Alignment:
ATTAGCYRGGCRTGGTGGC
ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: ATTAGCYRGGCRTGGTGGC

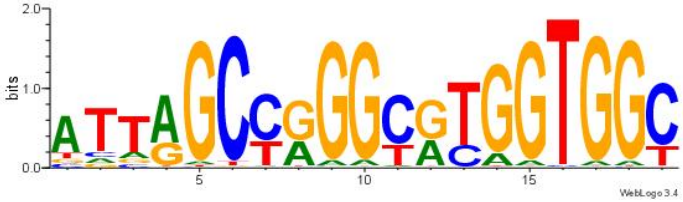

Reverse complement motif Consensus sequence: GCCACCAMGCCMKGCTAAT

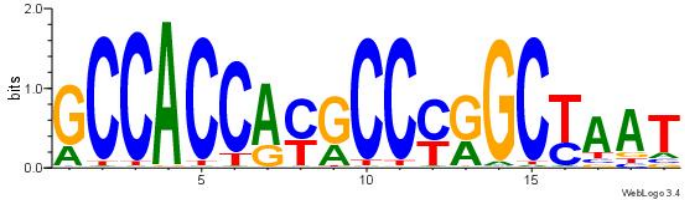

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.139673

Alignment:
AAAMAMMKMATGTTCTCACT
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

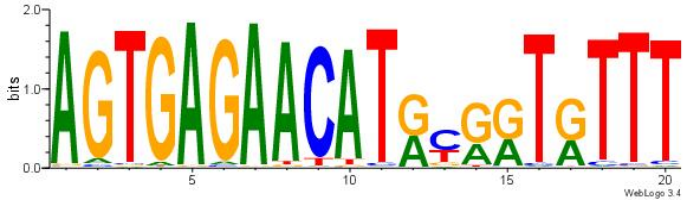

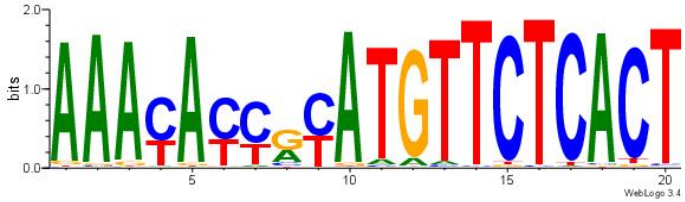

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141441

Alignment:

```
GTKTMTATMTACCACATTTT
ATGGCCTATGACYGSTTTG-
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

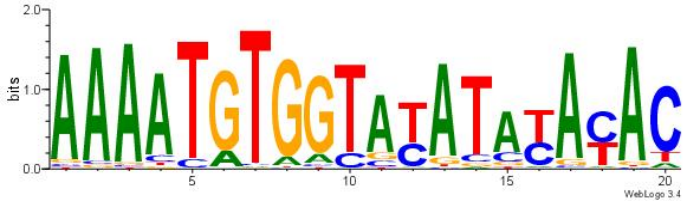

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

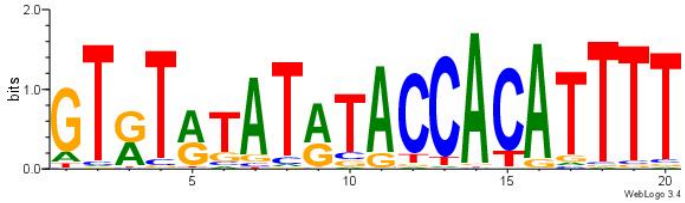

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.141901

Alignment:

```
ACTGTCTTCCACCTCCACAT
ATGGCCTATGACYGSTTTG-
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

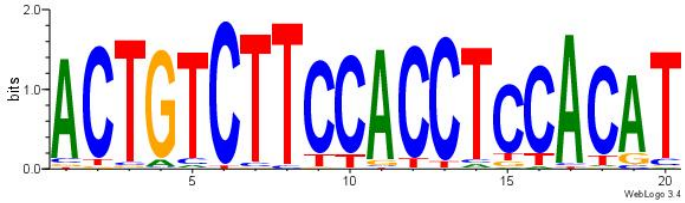

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

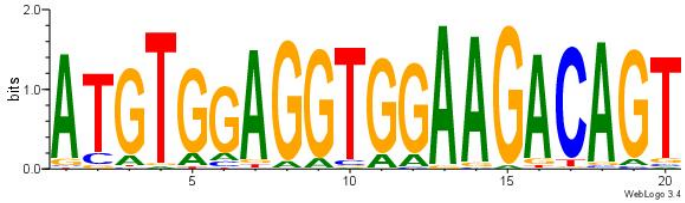

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.142986

Alignment:
CTCCTGCCTCAGCCTCCCRA
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

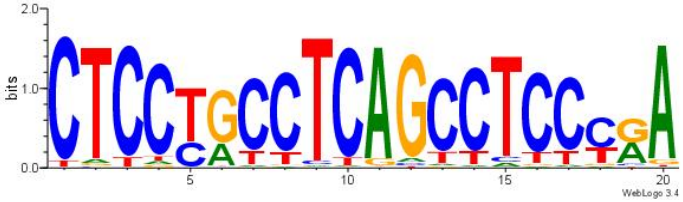

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

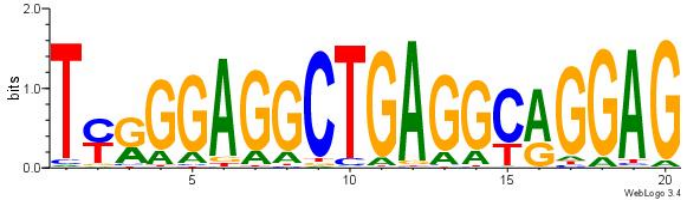

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.142989

Alignment:
ATTGGTGTATTTACAATCCC
-ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

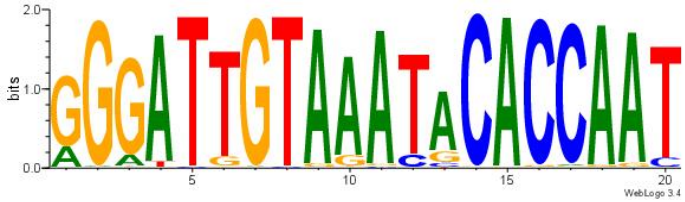

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.143433

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
-CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

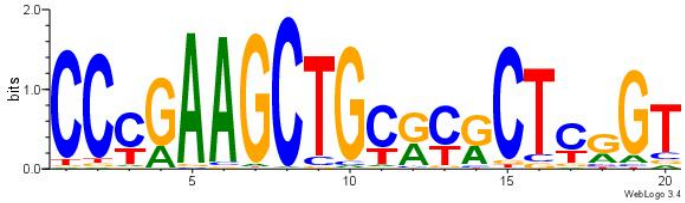

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

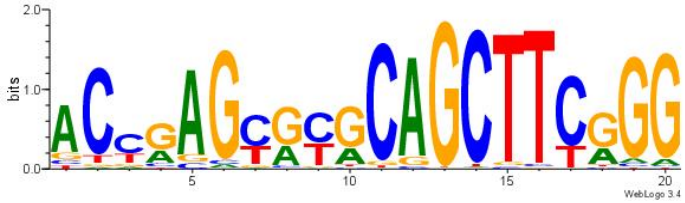

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.143867

Alignment:

```
AAAATCACAAGCATTCCTAT
-CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

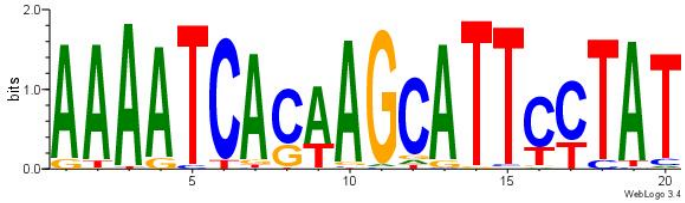

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

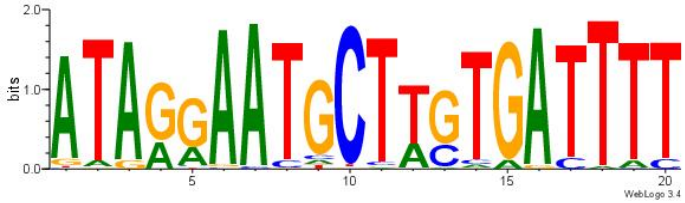

Dataset #:	1
Motif ID:	164
Motif name:	Motif 164
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.144662

Alignment:
GCGMGCGGGAACCGGGGCT
CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

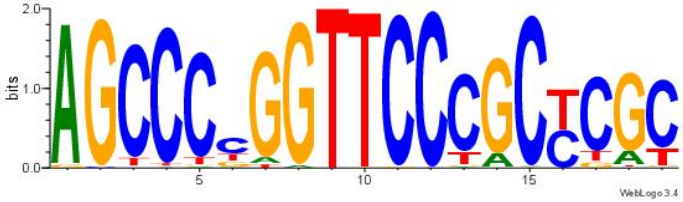

Reverse complement motif Consensus sequence:
GCGMGCGGGAACCGGGGCT

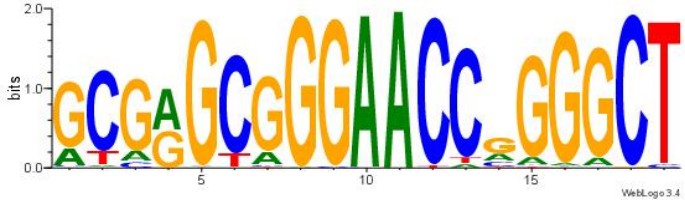

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.144922

Alignment:
GGTTCATCTCACTAGGGAGT
ATGGCCTATGACYGSTTTG-

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

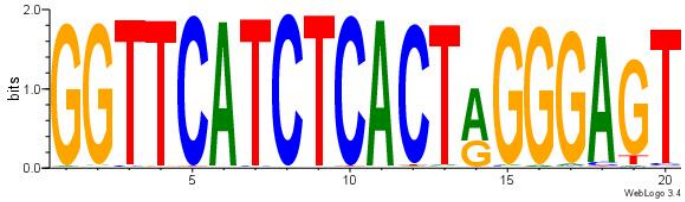

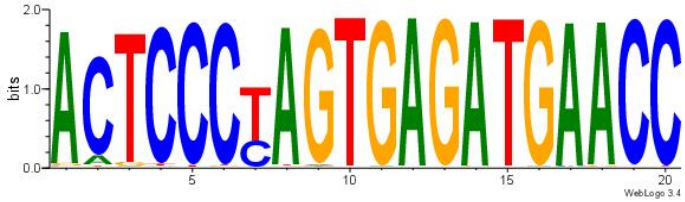

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144926

Alignment:

```
TYTGTCMTTTTGTGACTGGC
ATGGCCTATGACYGSTTTG-
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

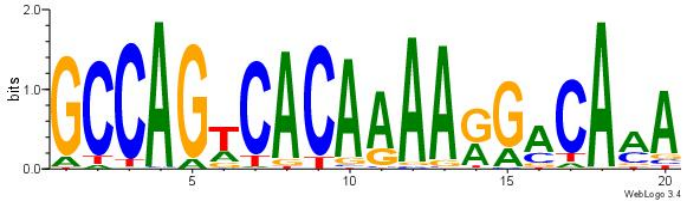

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

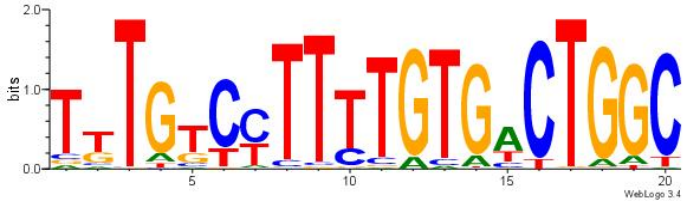

Dataset #:	1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145192

Alignment:

```
ATGATCCAGCAATYCCACTH
CAAASCKGTCATAGGCCAT-
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

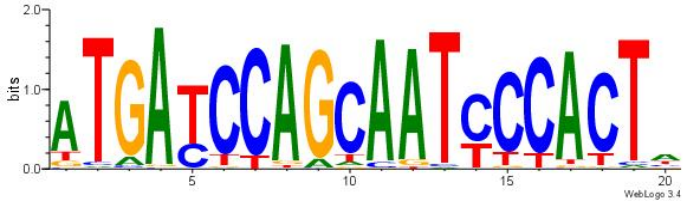

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

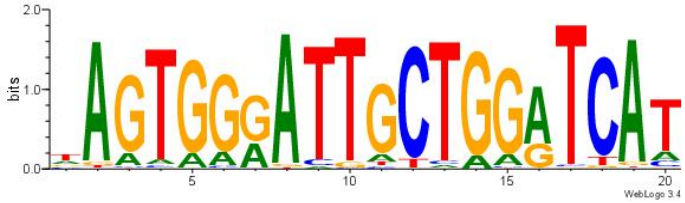

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.145775

Alignment:
CMCAGTTCACAATAGGGTT
CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

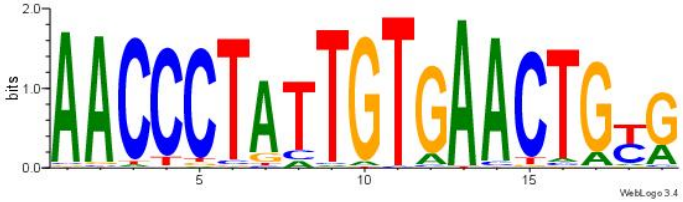

Reverse complement motif Consensus sequence:
CMCAGTTCACAATAGGGTT

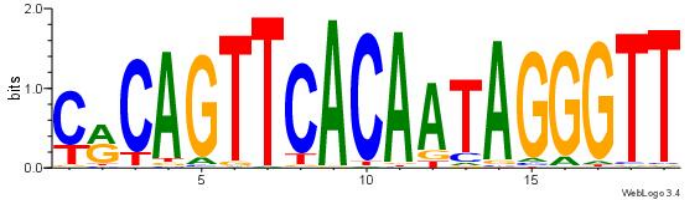

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.146051

Alignment:
CCACCACAGCTCAAGGAGGC
CAAASCKGTCATAGGCCAT-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

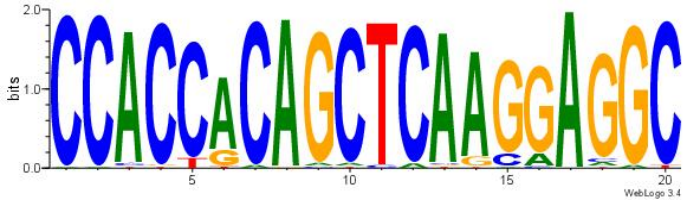

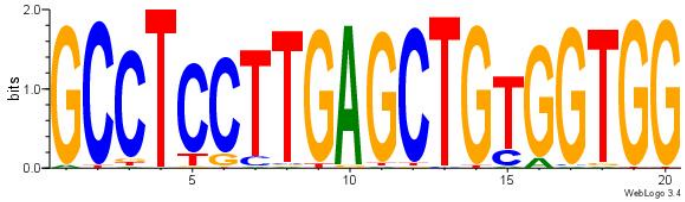

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.147244

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
CAAASCKGTCATAGGCCAT-
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

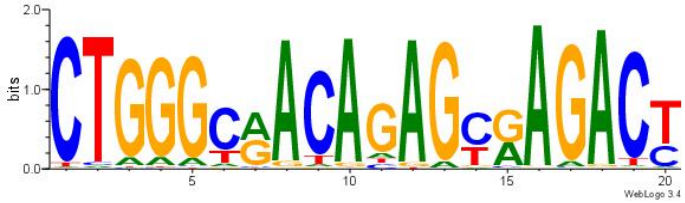

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

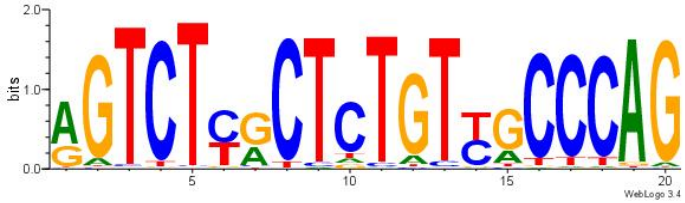

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.147805

Alignment:

```
GCAAAKGACATGATYTCATT
CAAASCKGTCATAGGCCAT-
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

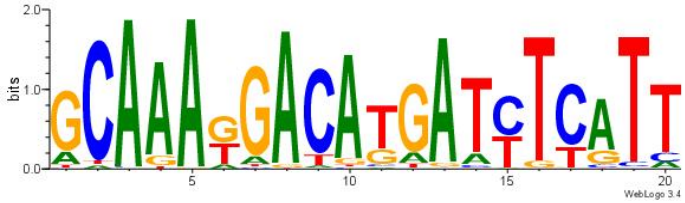

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

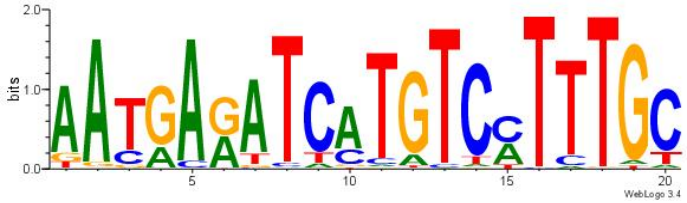

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.148798

Alignment:
AGCCYCTGGYAACCAYYAWT
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

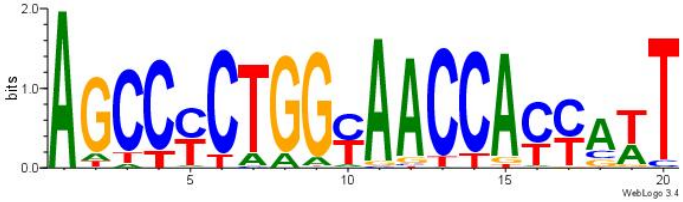

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

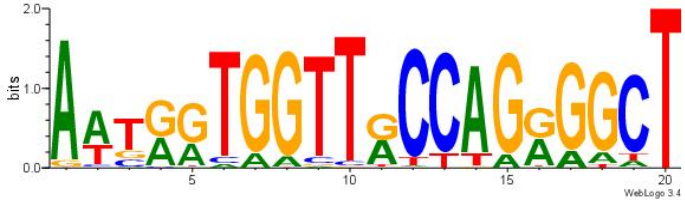

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.149902

Alignment:
TAGATAATAGCTCCAGCTTT
-ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

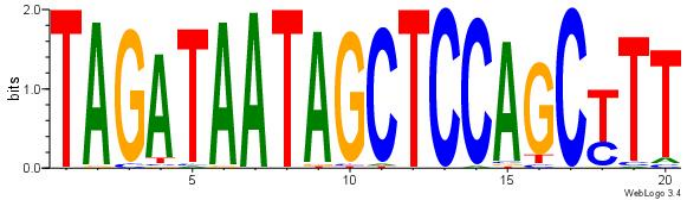

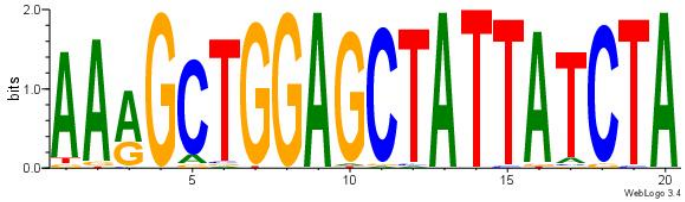

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.150321

Alignment:

```
TAGTGGTGATTTSTGAGAT
CAAASCKGTCATAGGCCAT
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

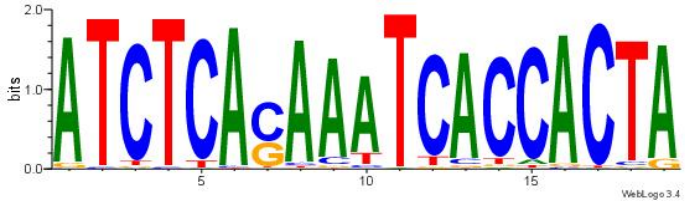

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

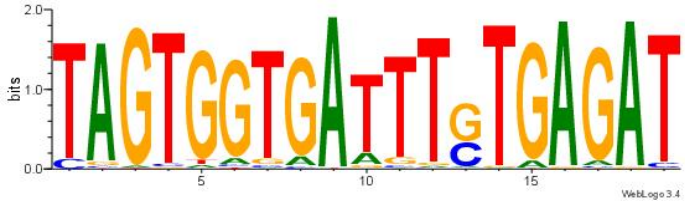

Dataset #:	1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.150706

Alignment:

```
AAGGAACAAACTCCRGACAC
-ATGGCCTATGACYGSTTTG
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

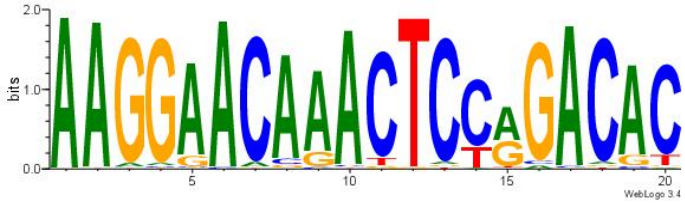

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

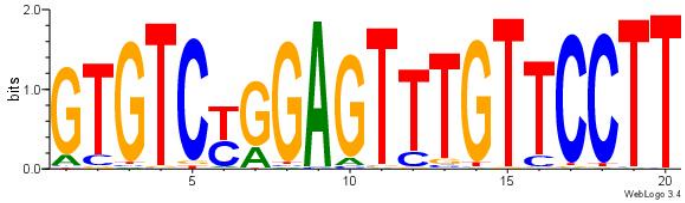

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.150773

Alignment:
VMATTTAKTGAGCACCTACT
-ATGGCCTATGACYGSTTTG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

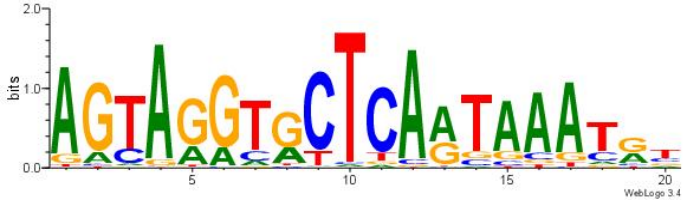

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

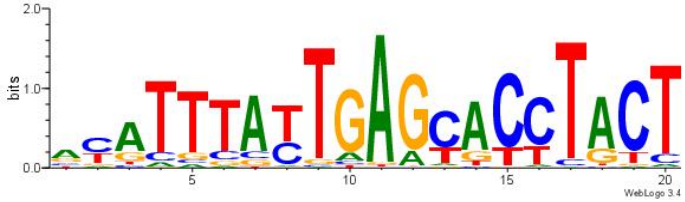

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.150836

Alignment:
AGGACTGAGGGTGCCYRGGG
ATGGCCTATGACYGSTTTG-

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

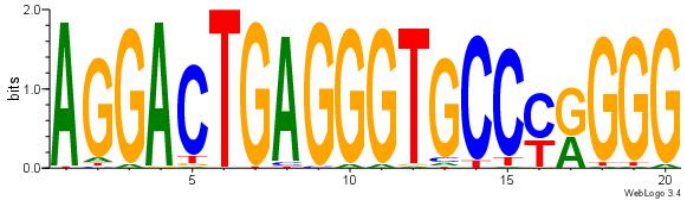

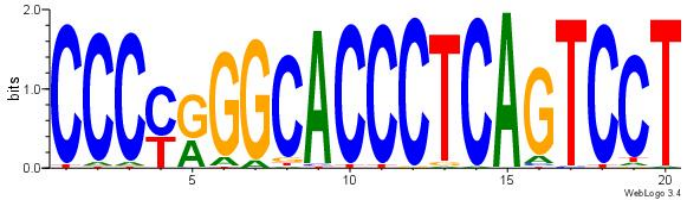

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.150972

Alignment:
ACACACAYACACACACACA
CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: ACACACAYACACACACACA

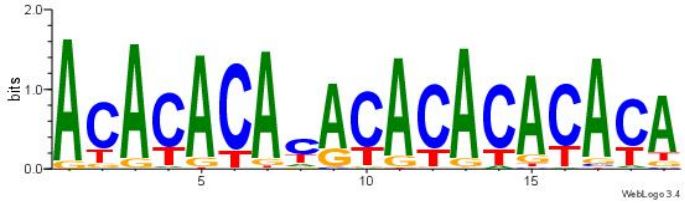

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

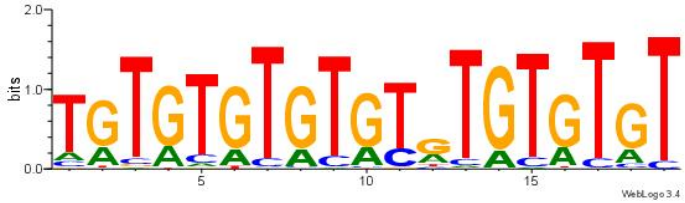

Dataset #:	1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.151174

Alignment:
AGGAACAGCTCCRGTCTAC
CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

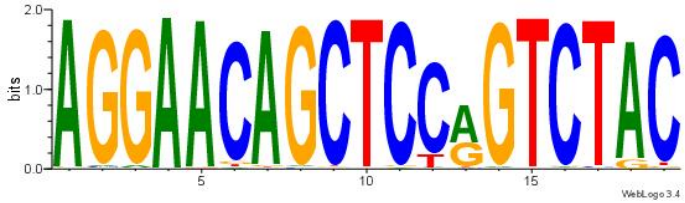

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

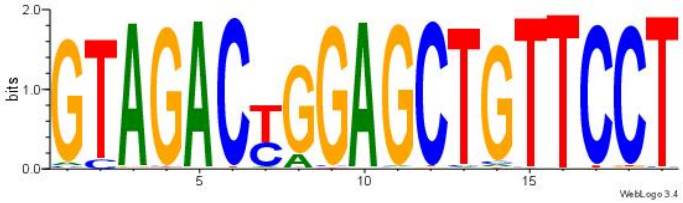

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.151197

Alignment:
CGAGCCTCCCCGAYGAGCGC
-CAAASCKGTCATAGGCCAT

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

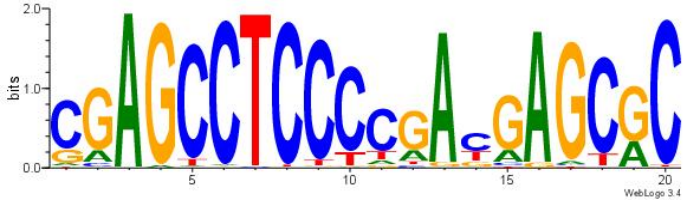

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

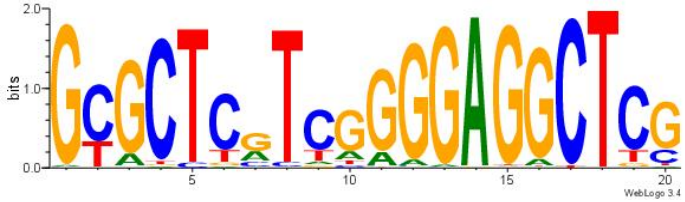

Dataset #: 1 Motif ID: 349 Motif name: Motif 349

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

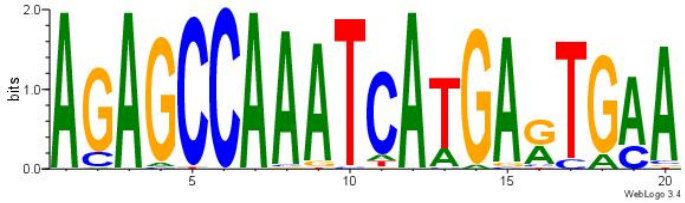

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

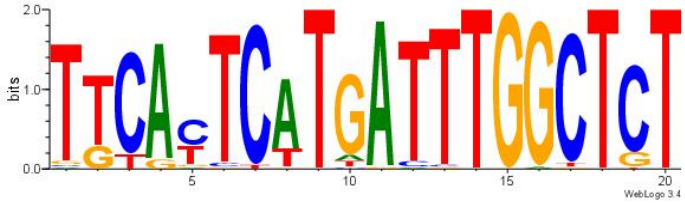

Best Matches for Motif ID 349 (Highest to Lowest)

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121011

Alignment:
AGCTCMKCCTCCTGTCAGAT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

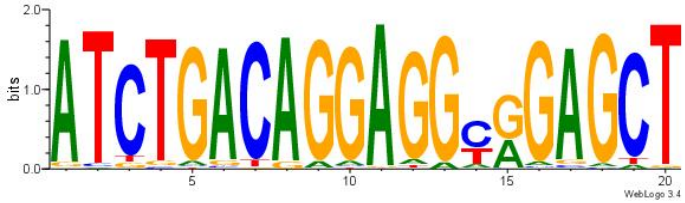

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

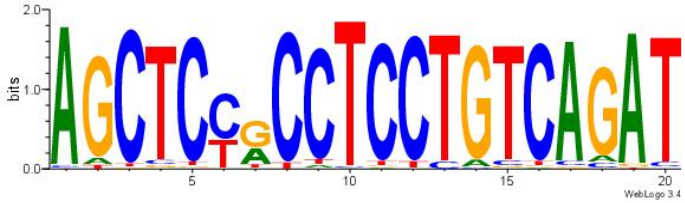

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.121473

Alignment:

GGATCCACTGGGTGAAGCCA
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

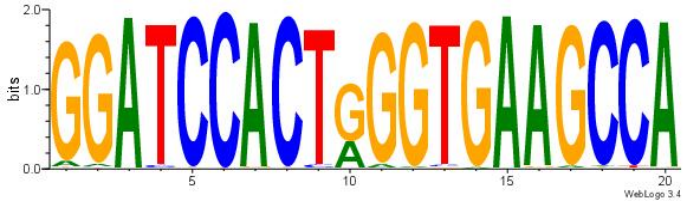

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

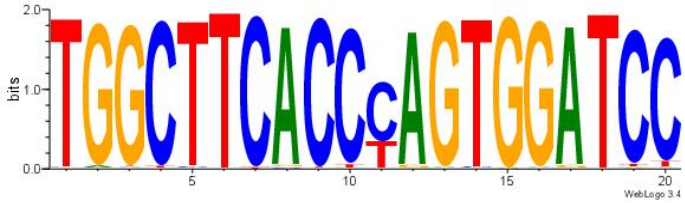

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.124741

Alignment:
KCCGGGCCTTAGCTGCCTTC
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

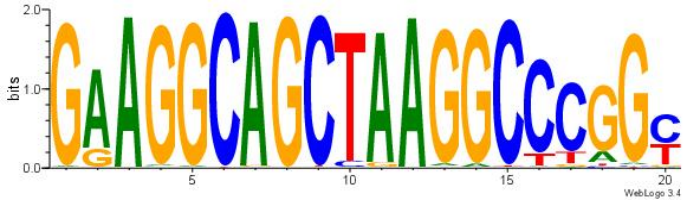

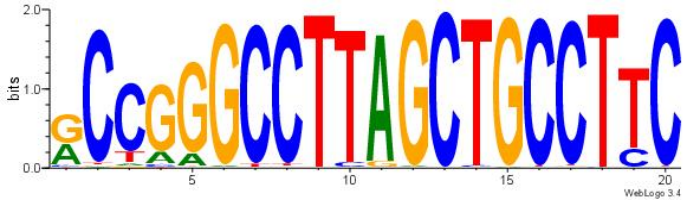

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.13108

Alignment:

```
TCCCTCCCGGACGGGGYGGC
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

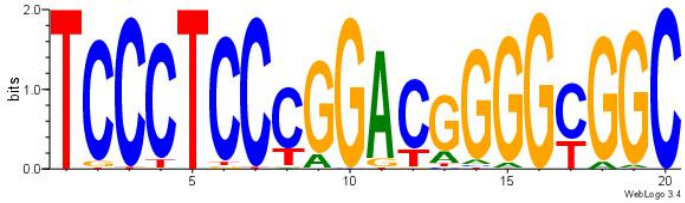

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

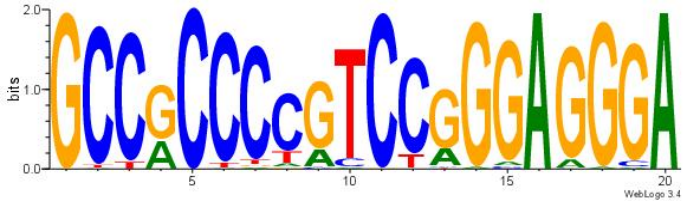

Dataset #:	1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.131454

Alignment:

```
AACAACASACACTGGGGCCT
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

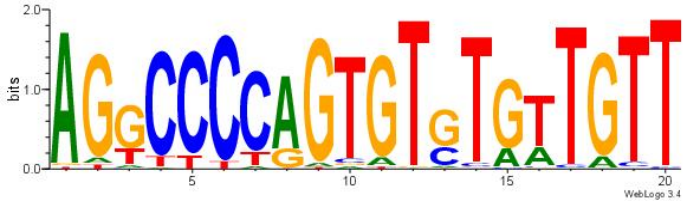

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

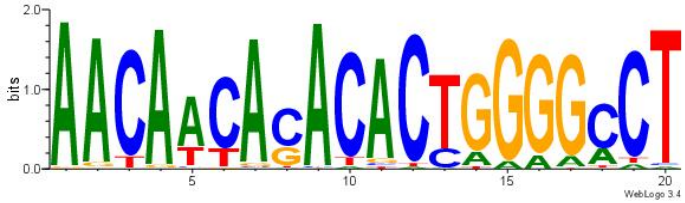

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.132983

Alignment:
ATGGCTGAATAKTATTCCAT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

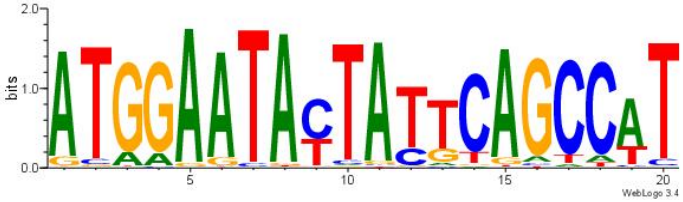

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

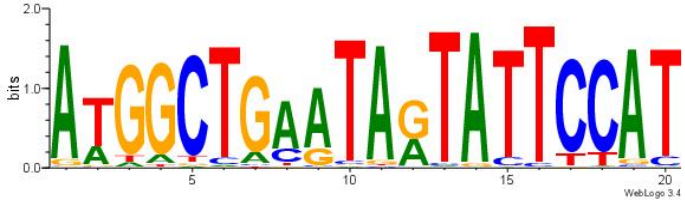

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.134281

Alignment:
KKCACCTTGATCTTGGACTT
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

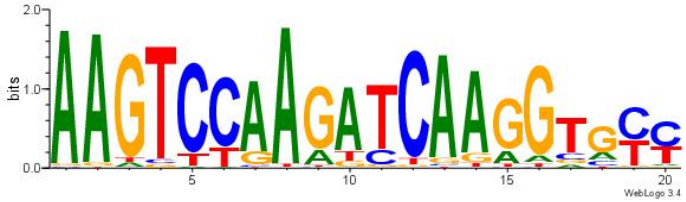

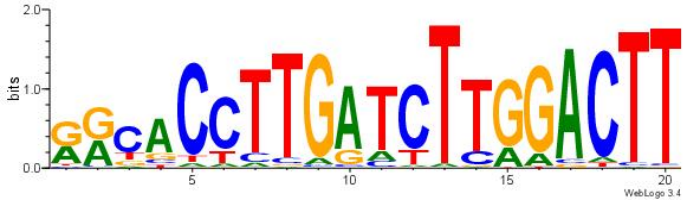

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.136492

Alignment:

```
GTCTCWAMAAAAAAWAMAAA
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

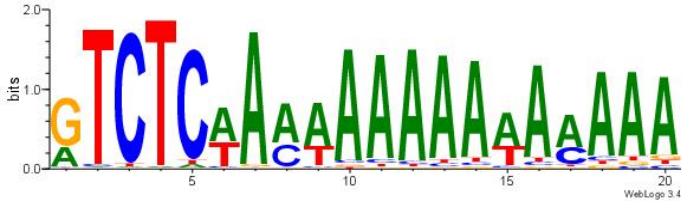

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

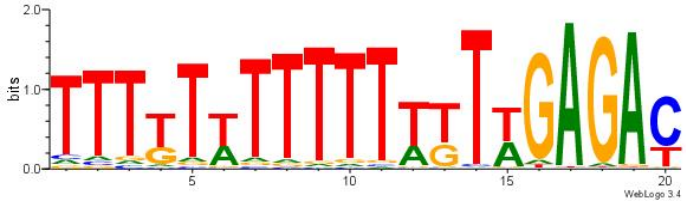

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.137279

Alignment:

```
CTCAGTGTTAATCTCCTGTC
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

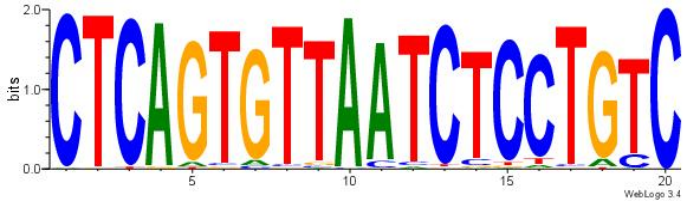

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

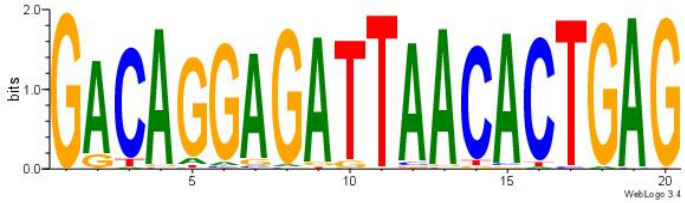

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.138026

Alignment:
AGGTTTGTTACATAGGTAWA
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

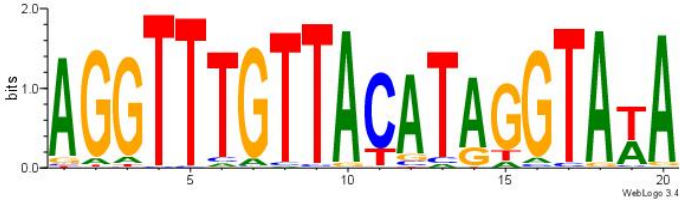

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

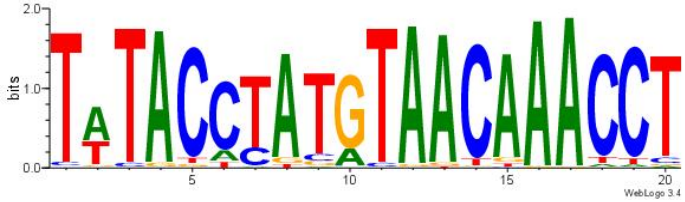

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.138527

Alignment:
CAAGCCTSKGCAATGGCAGG
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

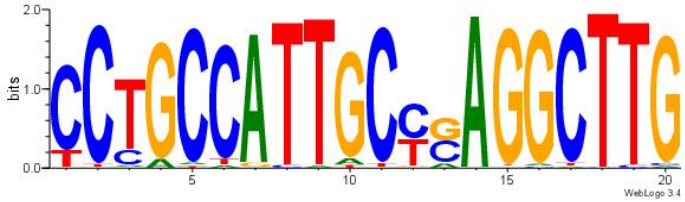

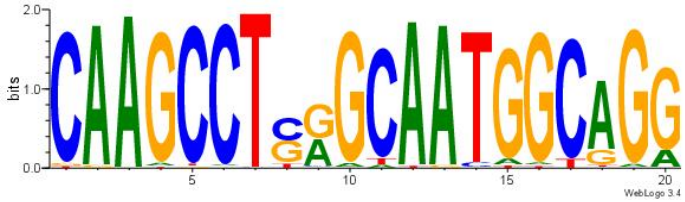

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138801

Alignment:

```
CAAGTTGACACATAAAATTA
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

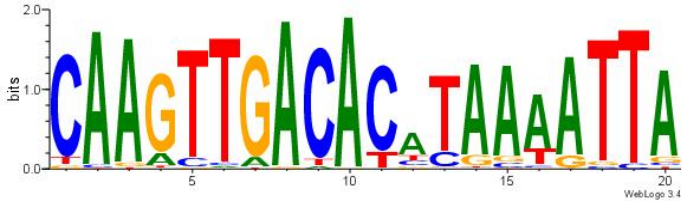

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

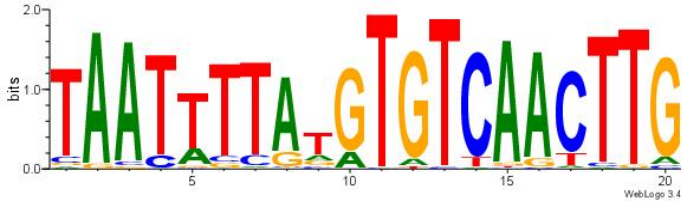

Dataset #:	1

Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138879

Alignment:

```
TYTGTCMTTTTGTGACTGGC
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

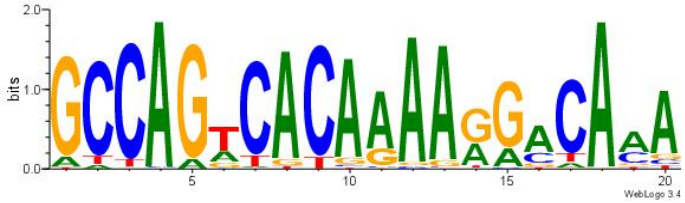

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

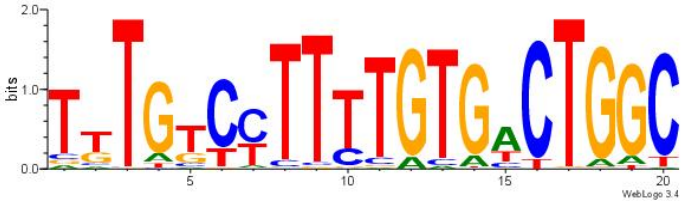

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139128

Alignment:
TAGATAATAGCTCCAGCTTT
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

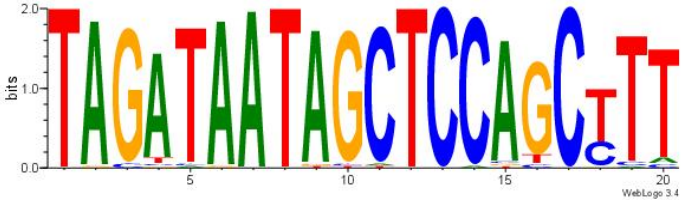

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

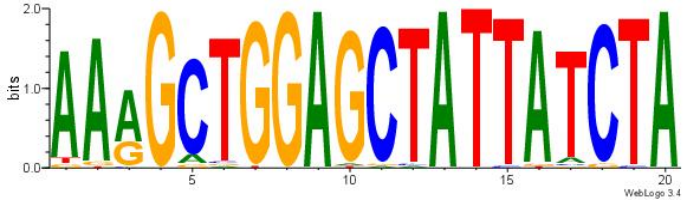

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.141534

Alignment:
ARCTCCTGKSCTCAAGKGAT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

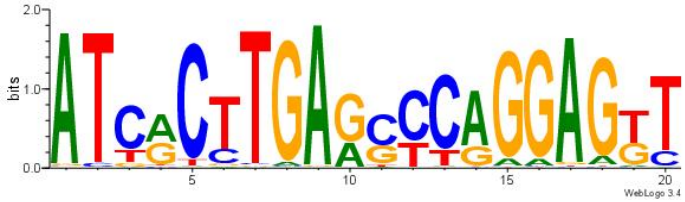

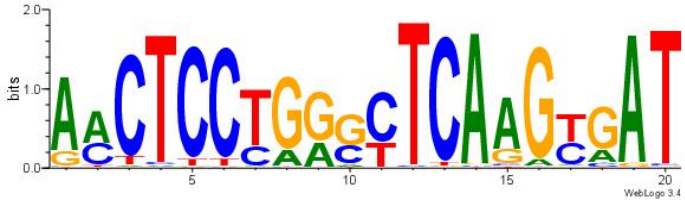

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.142459

Alignment:

```
AGTAGGTGCTCARTAAATRB
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

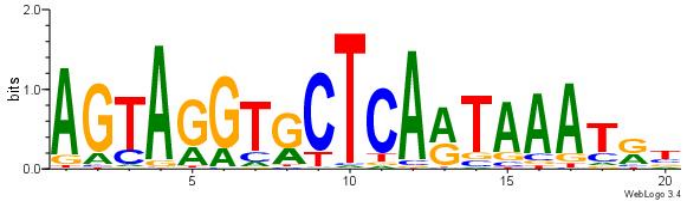

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

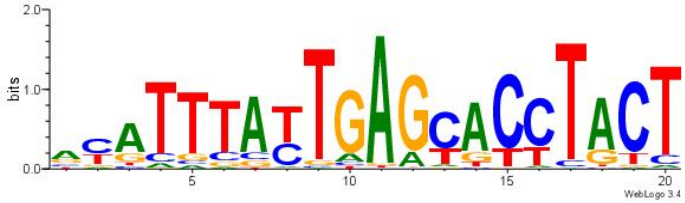

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.143678

Alignment:
AAGACCTTCCAGTGGGACAA
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

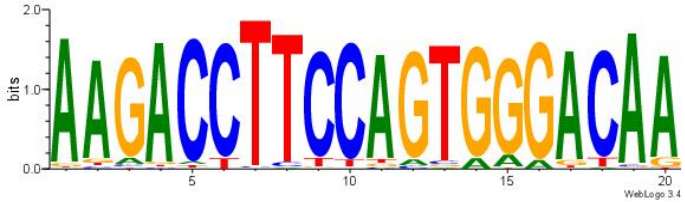

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

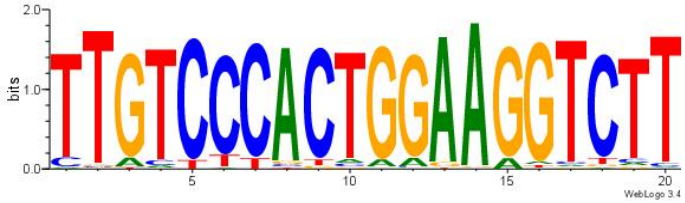

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144045

Alignment:
AGCCYCTGGYAACCAYYAWT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

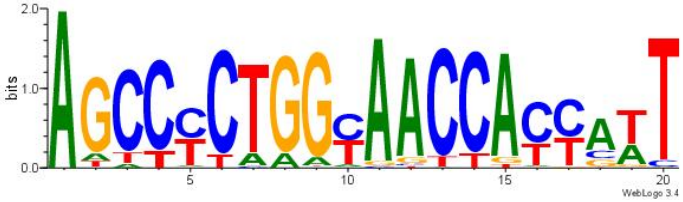

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

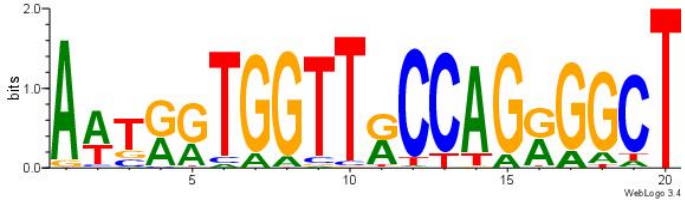

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.144494

Alignment:
GGAGCCGGCTCCCTCAGCTT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

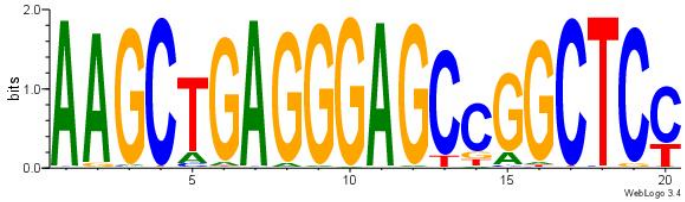

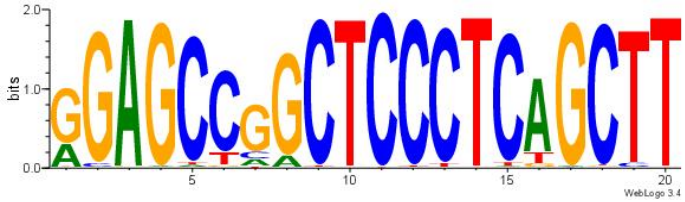

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144594

Alignment:
GAAHCAACCKAAKTGTCCAT
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

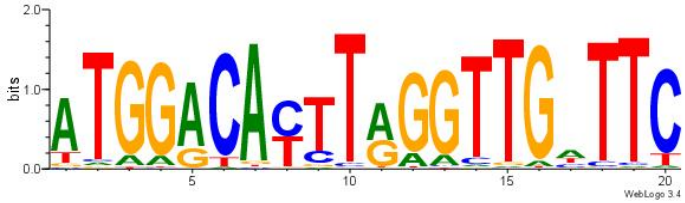

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

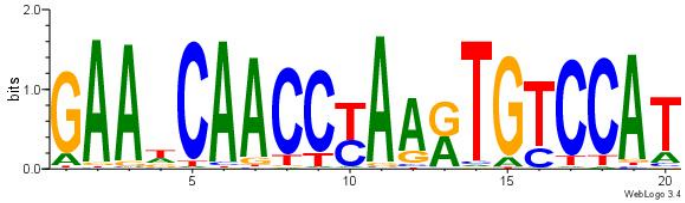

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144766

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

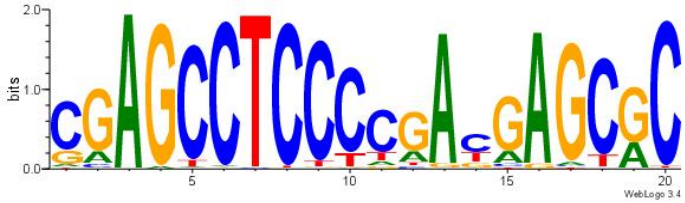

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

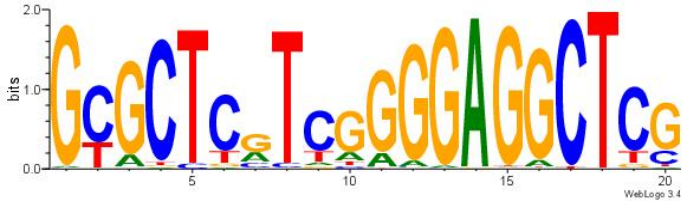

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.144786

Alignment:
TGGAGAACCTTTATGTCTAG
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

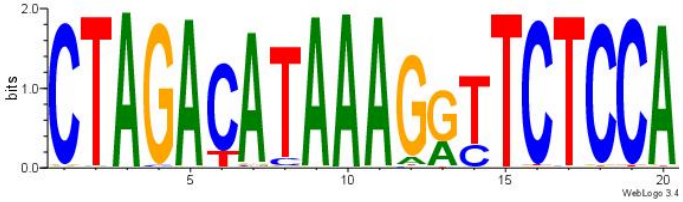

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

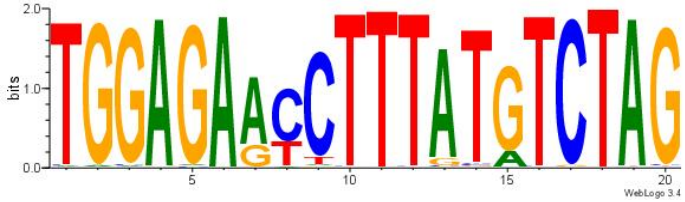

Dataset #: 1
Motif ID: 308
Motif name: Motif 308
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.145523

Alignment:
AAATTAGGCCAATTAATAAC
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

Reverse complement motif Consensus sequence:
GTTATTAATTGGCCTAATTT

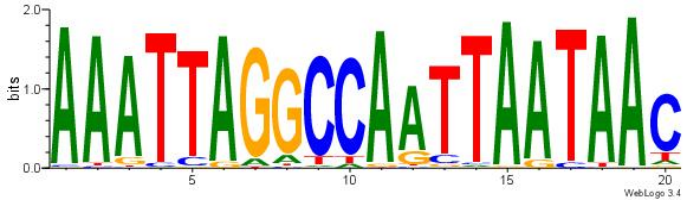

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.145636

Alignment:
GGATTTMKGACTTGCATGGG
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

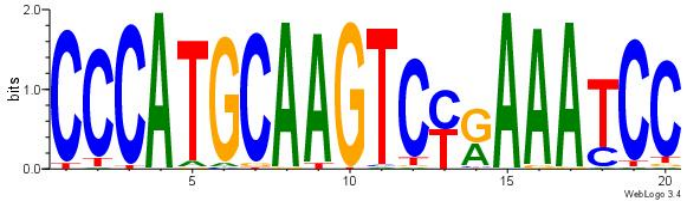

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

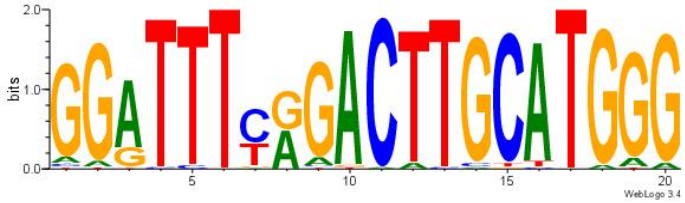

Dataset #: 1

Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147558

Alignment:

```
CAACATGGATGRARCTGGAG
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

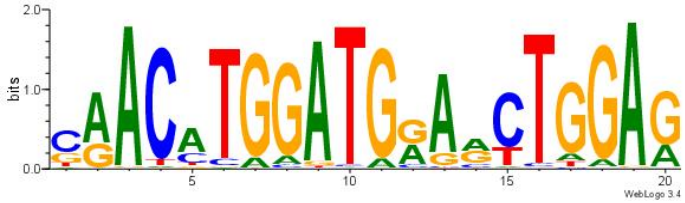

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

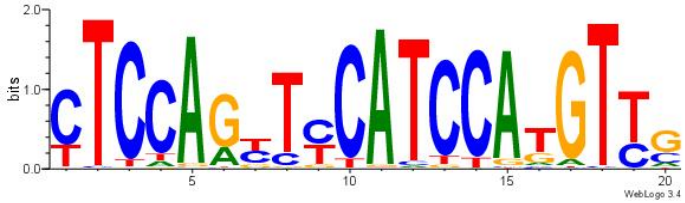

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.147954

Alignment:
HAGTGGKATTGCTGGATCAT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

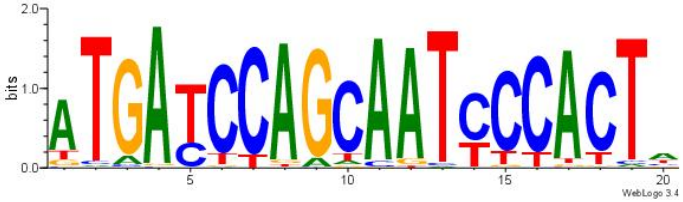

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

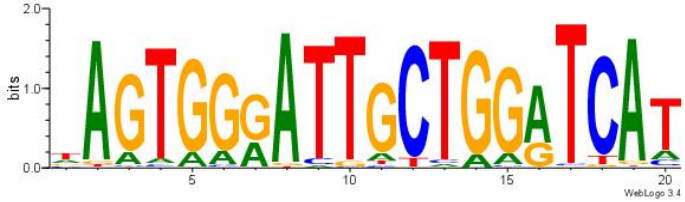

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.148087

Alignment:
GGTTCATCTCACTAGGGAGT
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

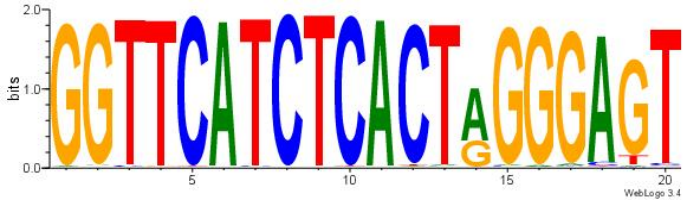

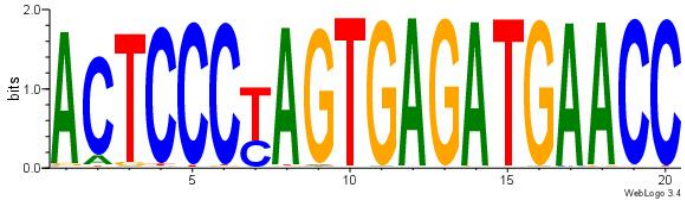

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148234

Alignment:

```
GAAACTGCTTTGTGATGTGT
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

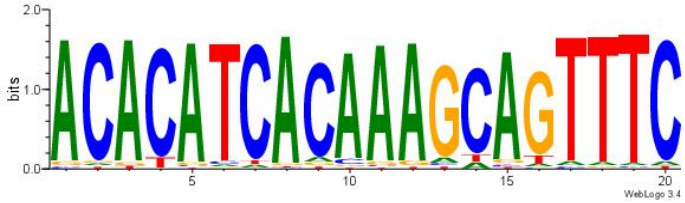

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

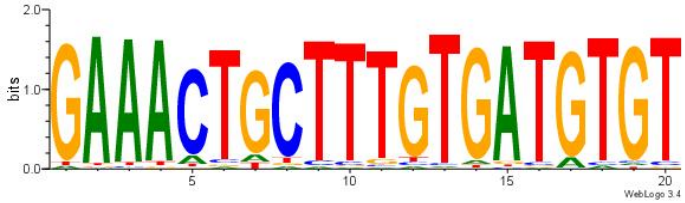

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.148362

Alignment:

```
AAAMAMMKMATGTTCTCACT
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

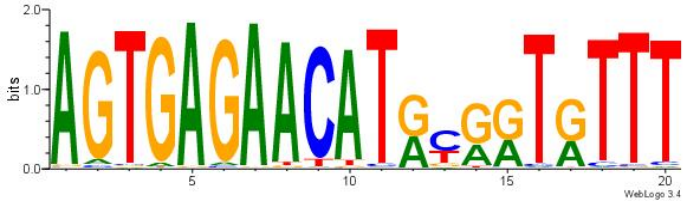

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

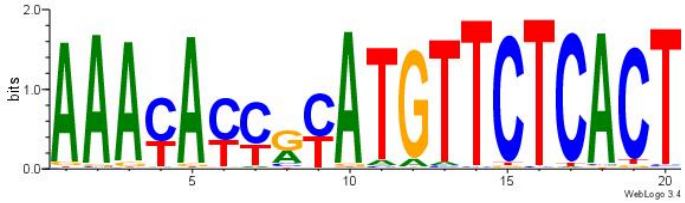

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.149211

Alignment:
AGCTGTGAGAAGAGGGCCAC
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

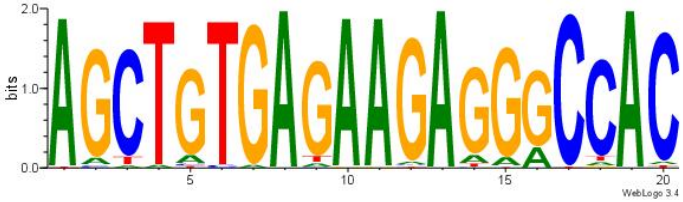

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

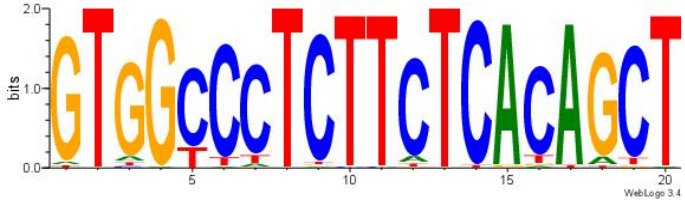

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149605

Alignment:
GTGTCKGGAGTTTGTTCCTT
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

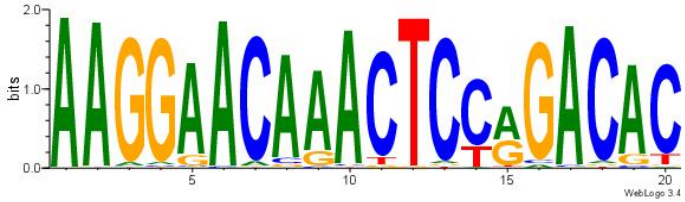

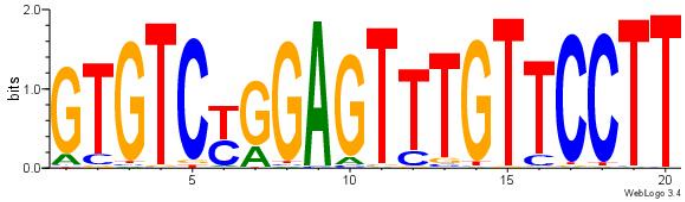

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150967

Alignment:
TMGGGAGGCTGAGGCAGGAG
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

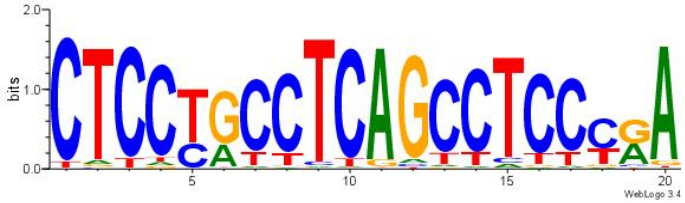

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

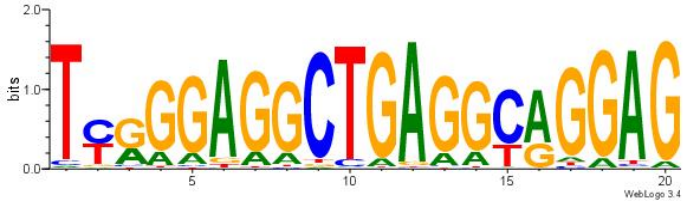

Dataset #:	1

Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15168

Alignment:
GCTGTGTGACCTTGGGCAAG
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

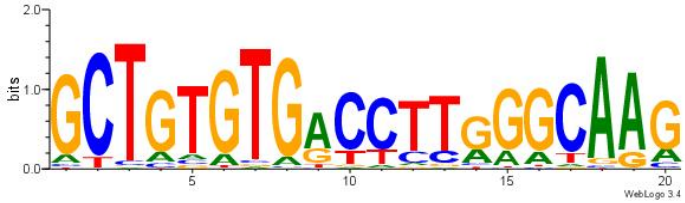

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

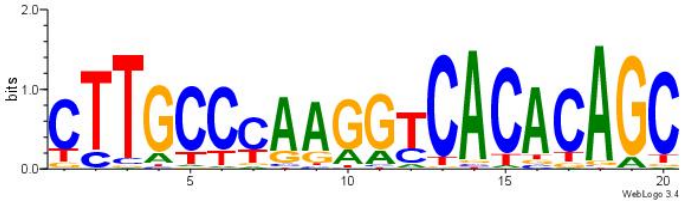

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152644

Alignment:
ATTGGTGTATTTACAATCCC
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

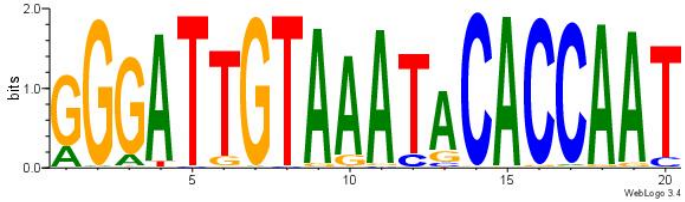

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.153168

Alignment:
GGAGGTGTGGAGGGAGAGGC
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

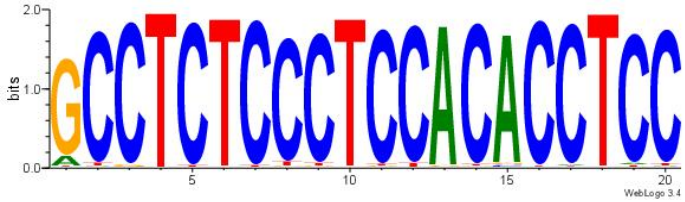

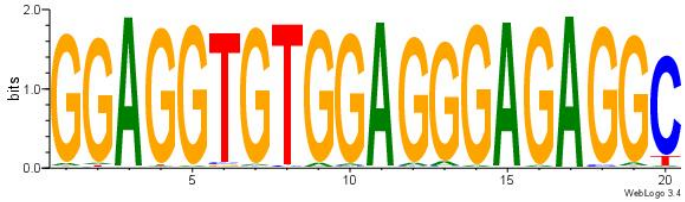

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15508

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

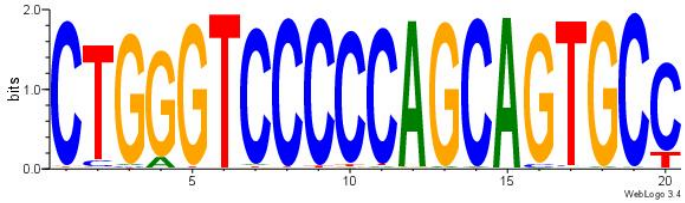

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

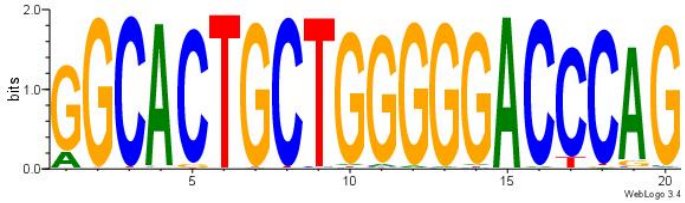

Dataset #:	1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15528

Alignment:

```
AGCTCCCAGCGTGAGCGACG
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

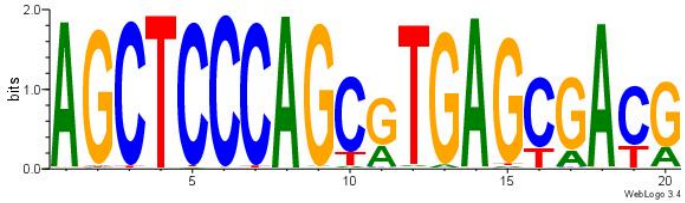

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

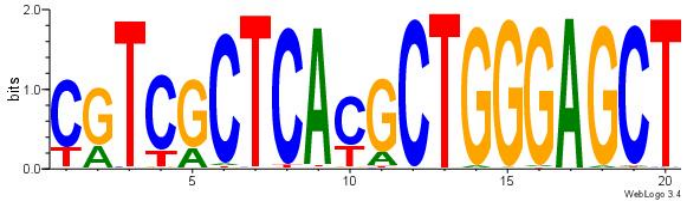

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155871

Alignment:
GGCATCACGGATCCTACCAA
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

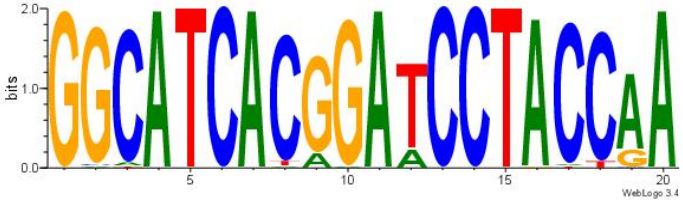

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

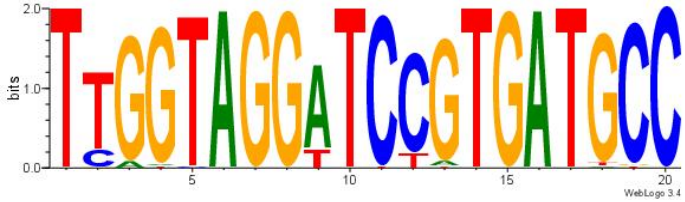

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.156622

Alignment:
AGAAATCGAGCRCAGCGCCG
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence:
CGGCGCTGMGCTCGATTTCT

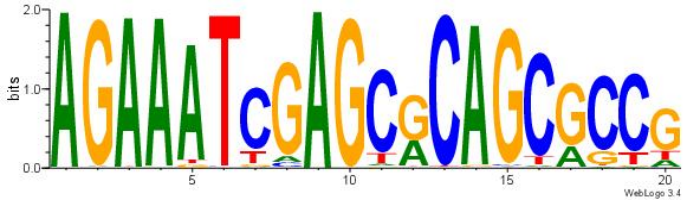

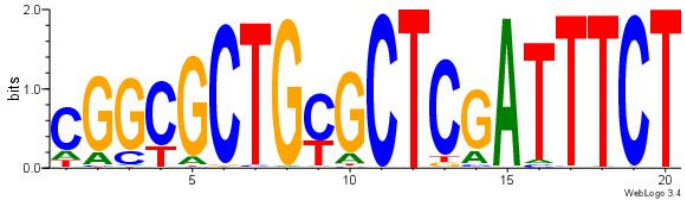

Dataset #: 1
Motif ID: 171
Motif name: Motif 171
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157092

Alignment:
ACTTTGGACTGTGGACTTTT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

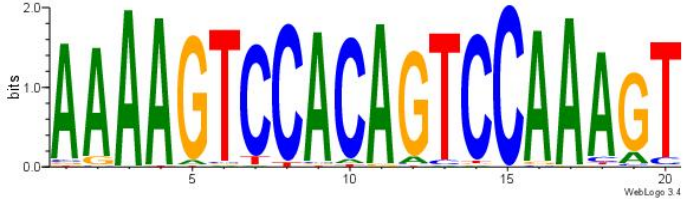

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

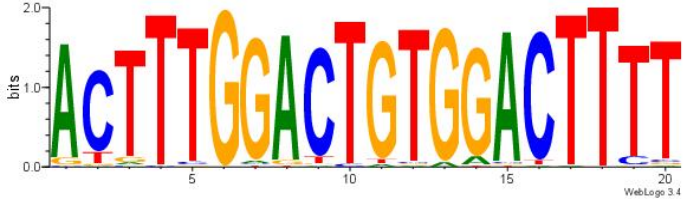

Dataset #: 1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.158252

Alignment:
AAAATCACAAGCATTCCTAT
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

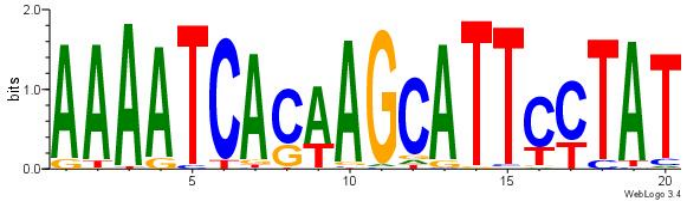

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

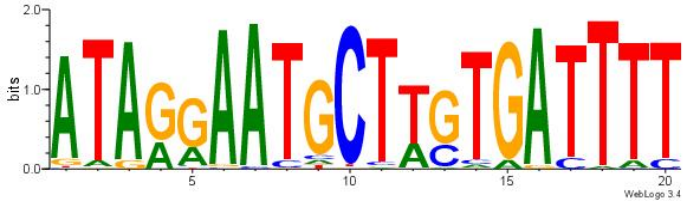

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.158735

Alignment:
GAATACCTCCTGAAGGACCT
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

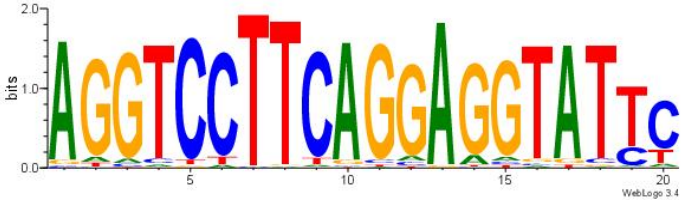

Reverse complement motif Consensus sequence:
GAATACCTCCTGAAGGACCT

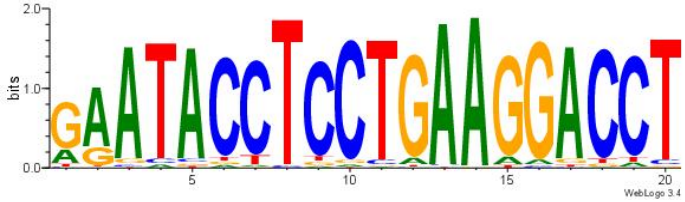

Dataset #: 1
Motif ID: 195
Motif name: Motif 195
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.158852

Alignment:
ACCCAATWTGTAGTCTTTTA
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

Reverse complement motif Consensus sequence:
ACCCAATWTGTAGTCTTTTA

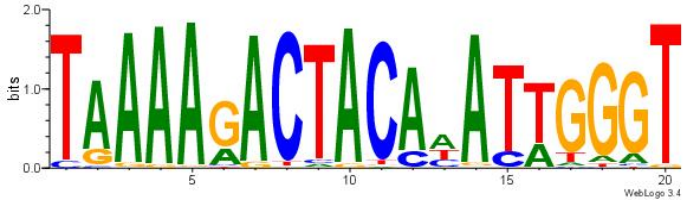

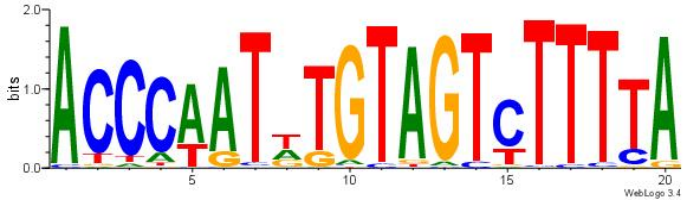

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159163

Alignment:

```
GTAACACTCACCGCGARGGT
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

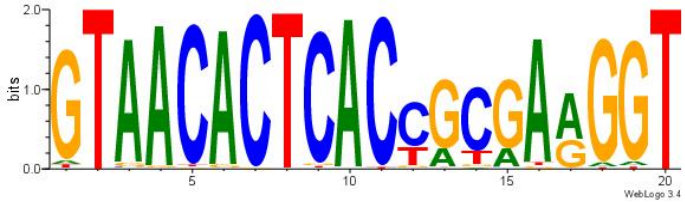

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

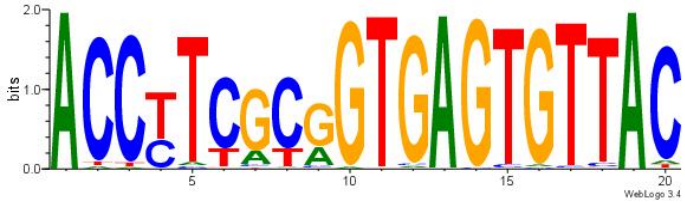

Dataset #: 1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160432

Alignment:

```
GTKTMTATMTACCACATTTT
TTCAMTCATGATTTGGCTCT
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

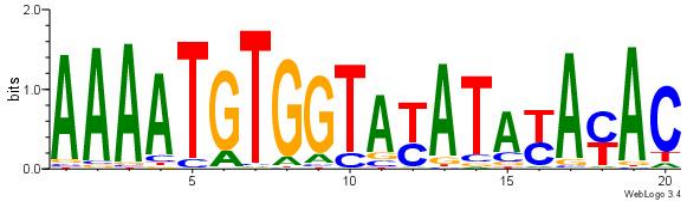

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

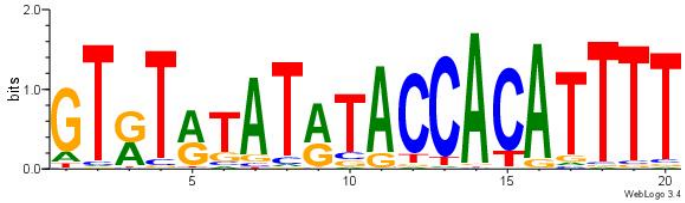

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161014

Alignment:
MGGGATATAATCTCCTGGTG
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

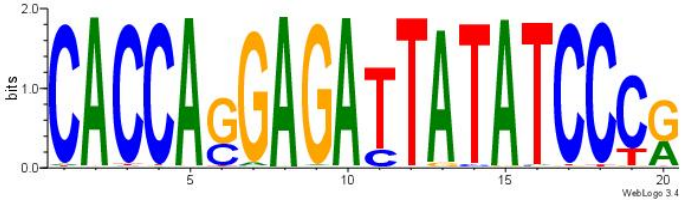

Reverse complement motif Consensus sequence:
MGGGATATAATCTCCTGGTG

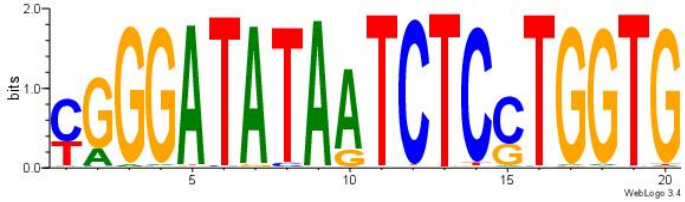

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.161229

Alignment:
GCCAATTTCTCCCATTTGGA
AGAGCCAAATCATGARTGAA

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence:
GCCAATTTCTCCCATTTGGA

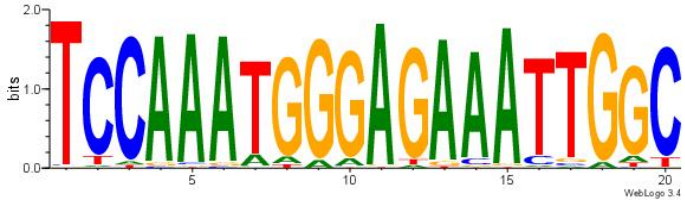

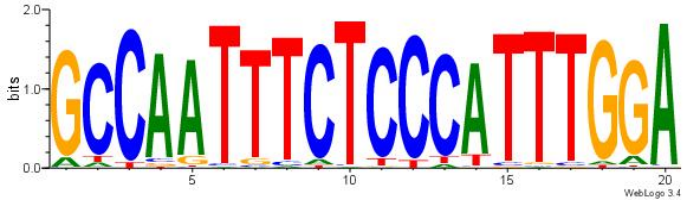

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161333

Alignment:

```
AGTGACCCGATTTTCCAGGT
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

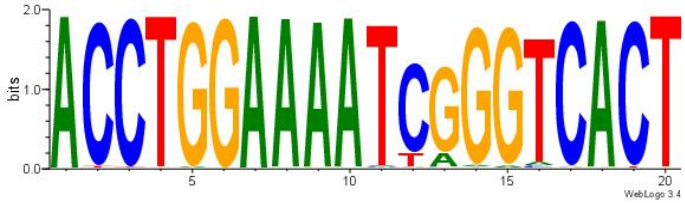

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

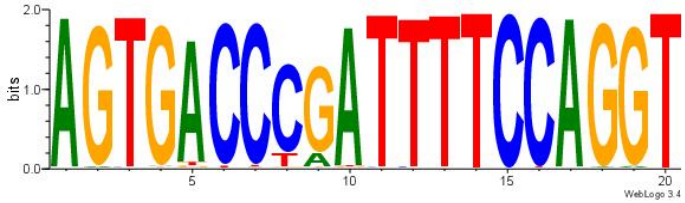

Dataset #:	1

Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.161913

Alignment:

```
AAGCTCGAACTGGGTGGAGC
AGAGCCAAATCATGARTGAA
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

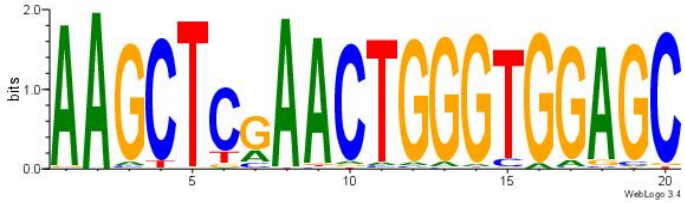

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

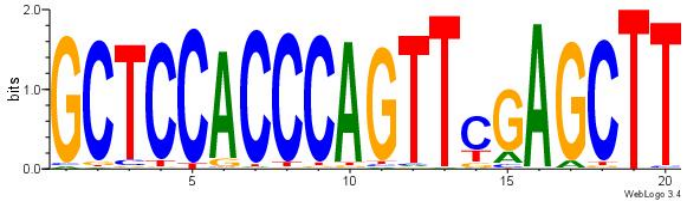

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16301

Alignment:
GTTTAACCATTGAGGGCCAG
TTCAMTCATGATTTGGCTCT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

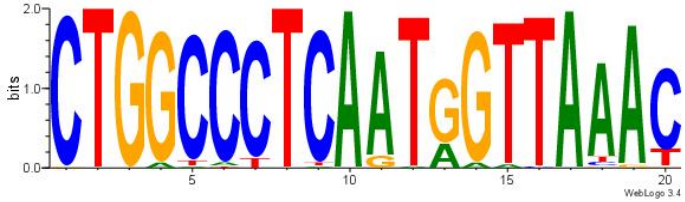

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

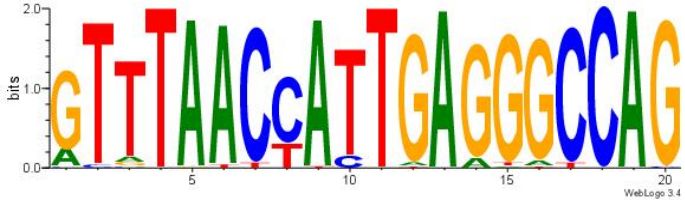

Dataset #: 1 Motif ID: 350 Motif name: Motif 350

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

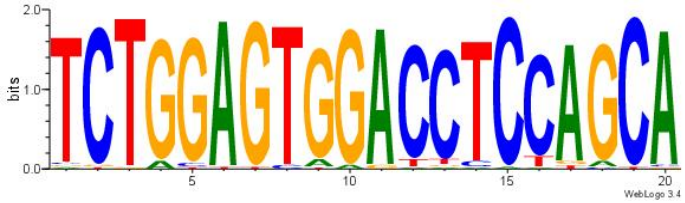

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

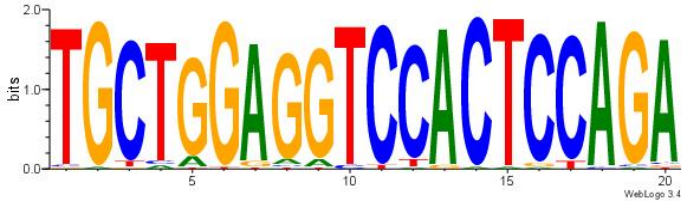

Best Matches for Motif ID 350 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.100512

Alignment:

```
GCTGGAGTGCAGTGGCRYGA
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

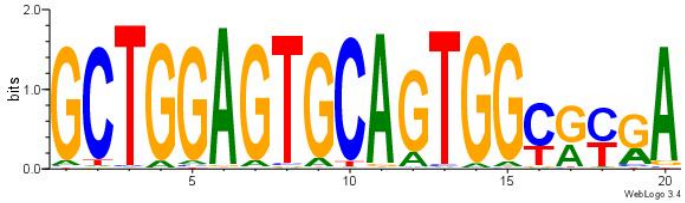

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

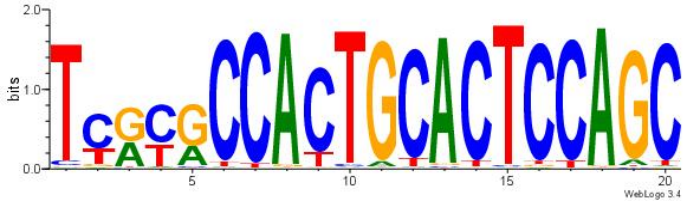

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.103785

Alignment:

ATGTGGAGGTGGAAGACAGT
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

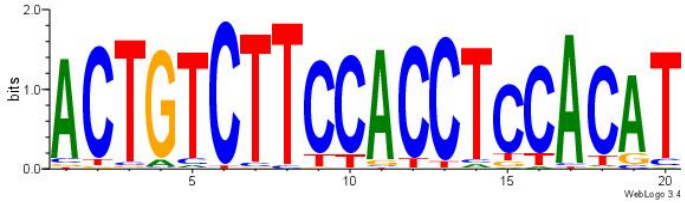

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

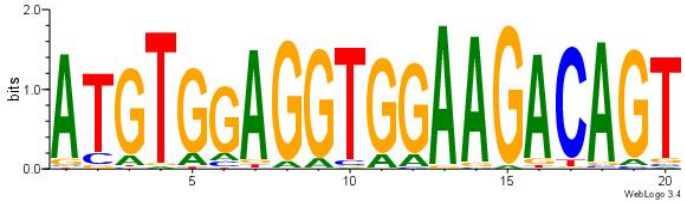

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.104962

Alignment:
GGTGGAGCTGCCTGCCAGTC
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

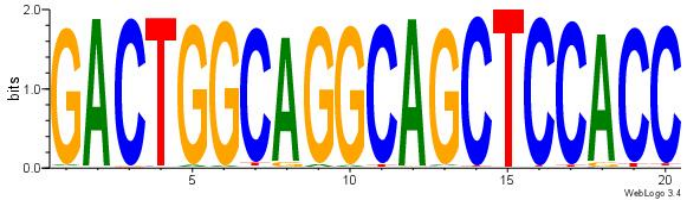

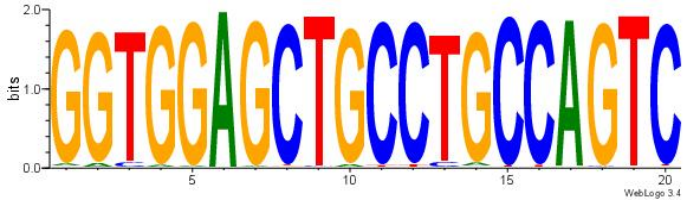

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.125531

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

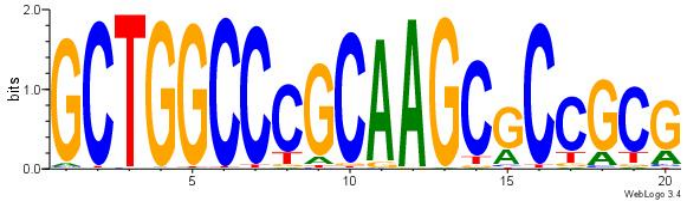

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

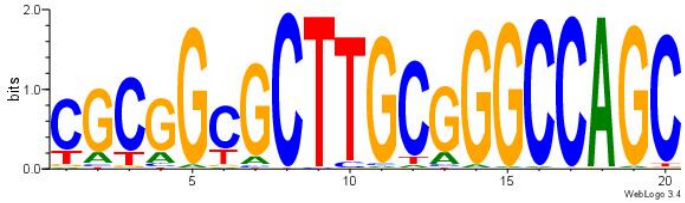

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.12666

Alignment:

```
CTCAGTGTTAATCTCCTGTC
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

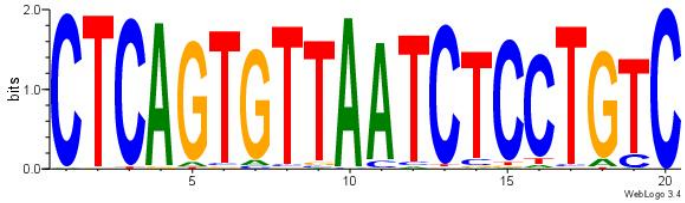

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

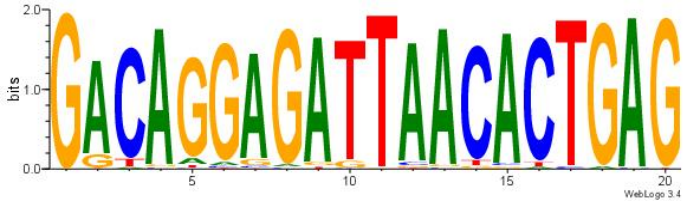

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.127832

Alignment:
GCCTCTCCCTCCACACCTCC
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

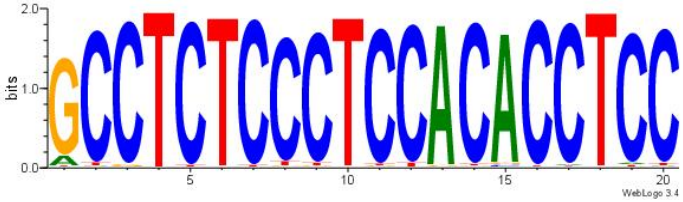

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

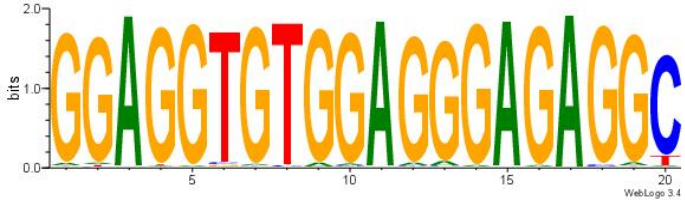

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.133944

Alignment:
ACCGAGMKMGCAGCTTCGGG
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

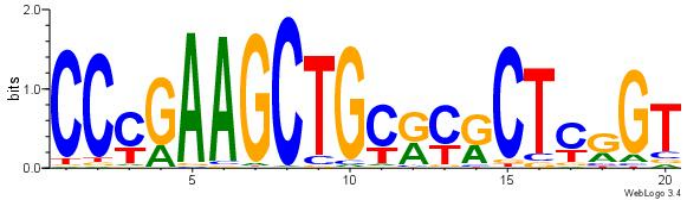

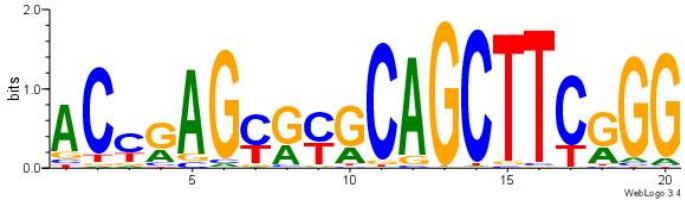

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.135093

Alignment:

```
ATCTGACAGGAGGYRGAGCT
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

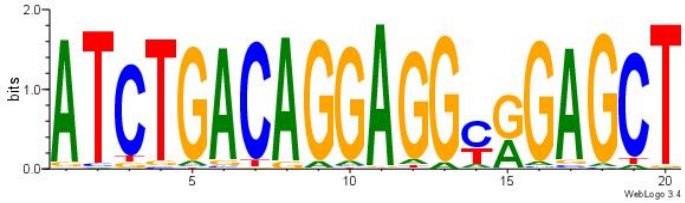

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

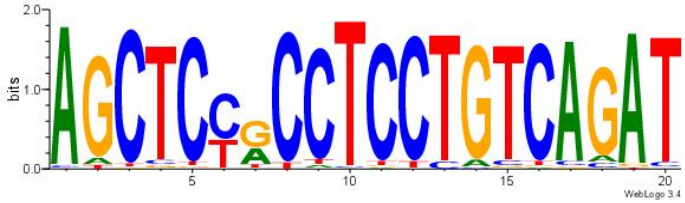

Dataset #: 1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138423

Alignment:

```
TTGGTAGGATCCGTGATGCC
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

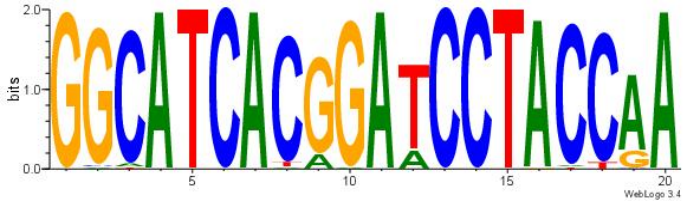

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

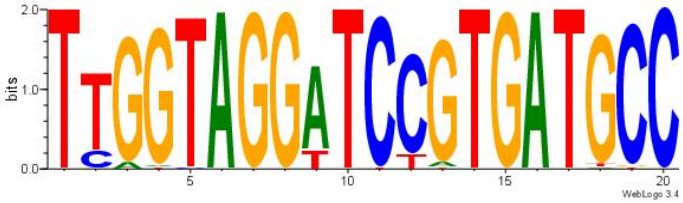

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.139843

Alignment:
CTCCTGCCTCAGCCTCCCRA
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

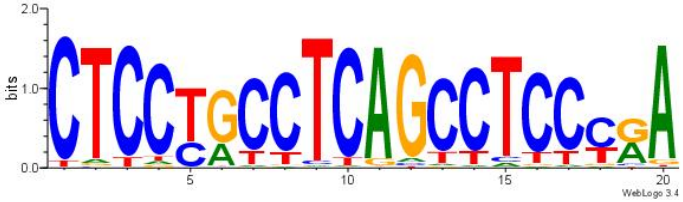

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

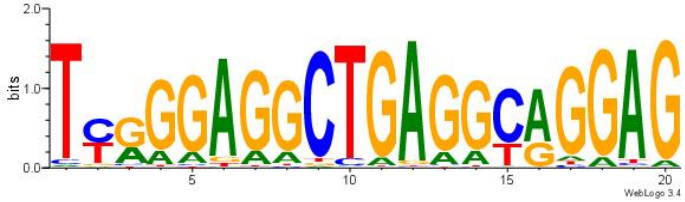

Dataset #: 1
Motif ID: 14
Motif name: Motif 14
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.142493

Alignment:
AGTGACCCGATTTTCCAGGT
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

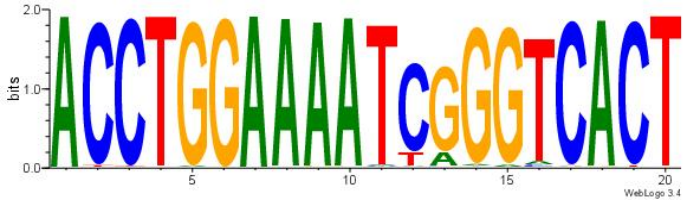

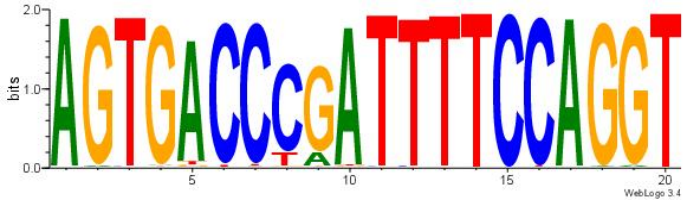

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.146375

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

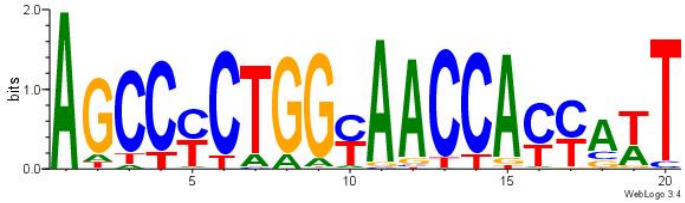

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

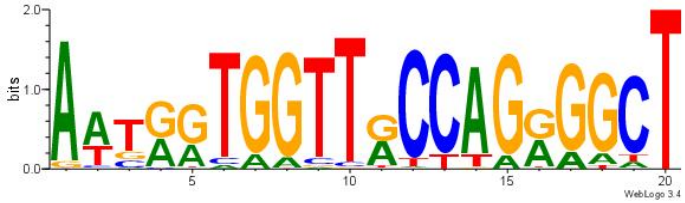

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.147672

Alignment:

GCCAATTTCTCCCATTTGGA

TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

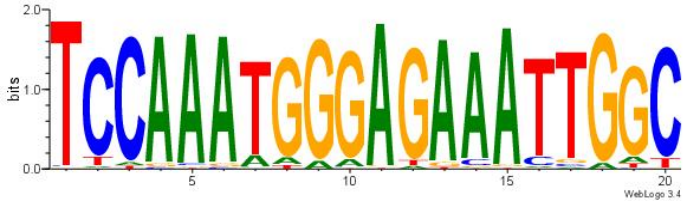

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

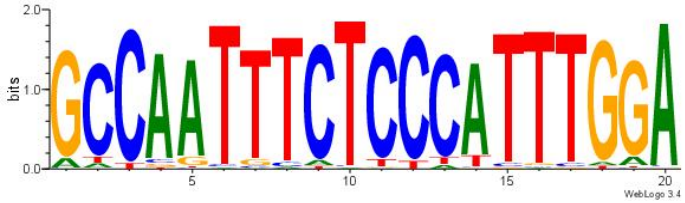

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148472

Alignment:
VMATTTAKTGAGCACCTACT
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

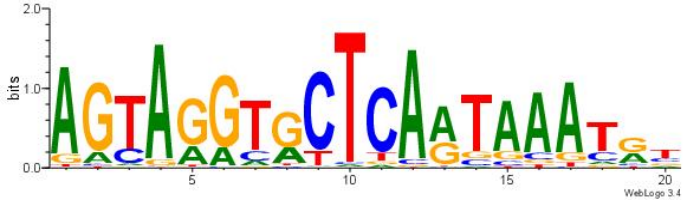

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

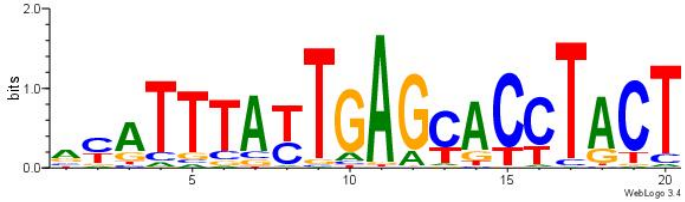

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149495

Alignment:
GTCTCWAMAAAAAAWAMAAA
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

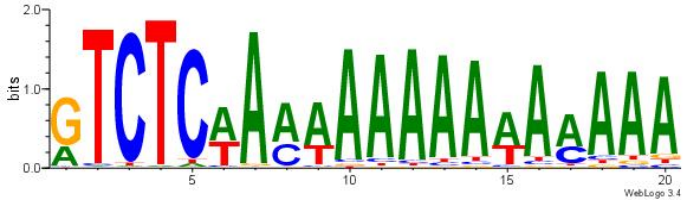

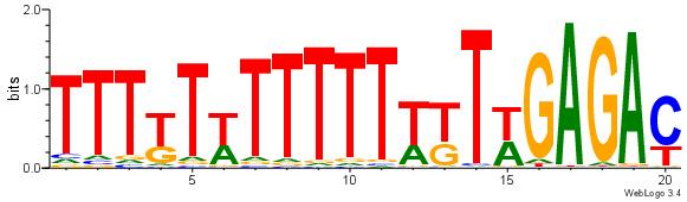

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.149857

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
TGCTGGAGGTCCACTCCAGA
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

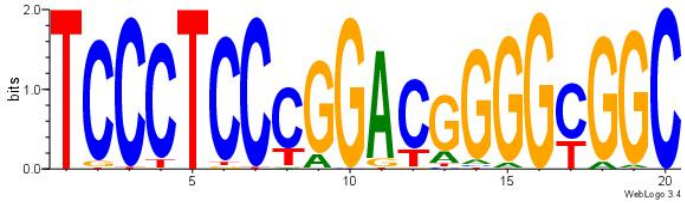

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

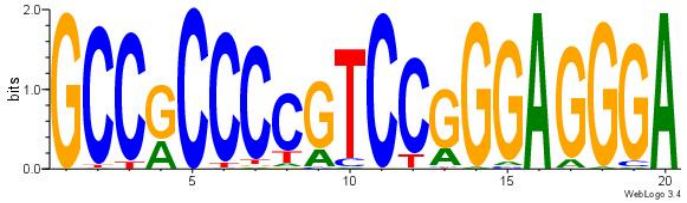

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152445

Alignment:

GCCKGGMKCMGTGGCTCAKG

TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

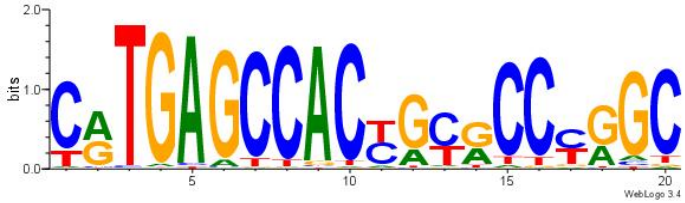

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

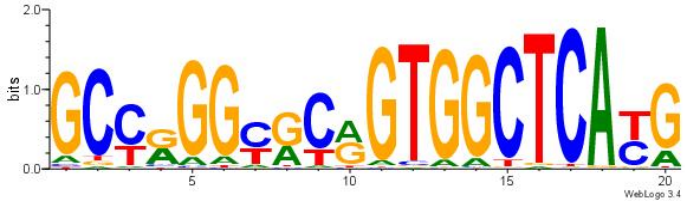

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.152475

Alignment:
AGCTGTGAGAAGAGGGCCAC
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

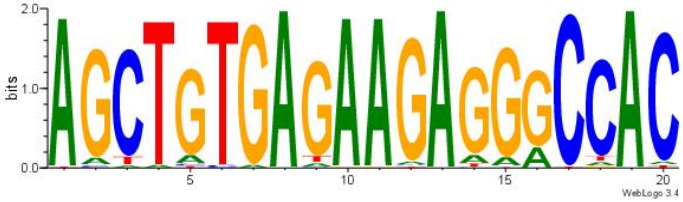

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

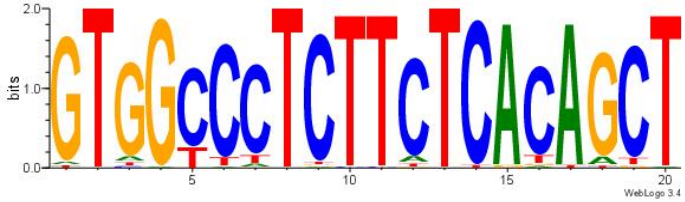

Dataset #: 1
Motif ID: 64
Motif name: Motif 64
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.152651

Alignment:
GAAGGCAGCTAAGGCCCGGY
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

Reverse complement motif Consensus sequence:
KCCGGGCCTTAGCTGCCTTC

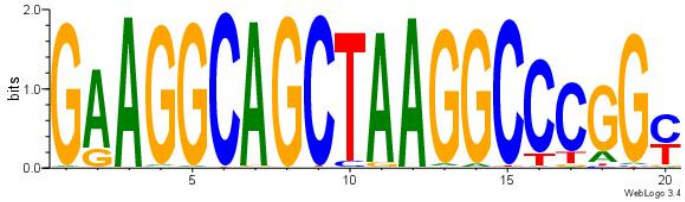

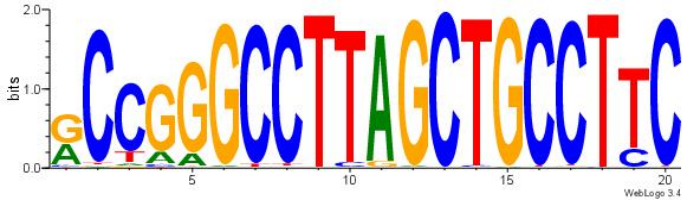

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.153729

Alignment:

GCCAGTCACAAAARGACAMA
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

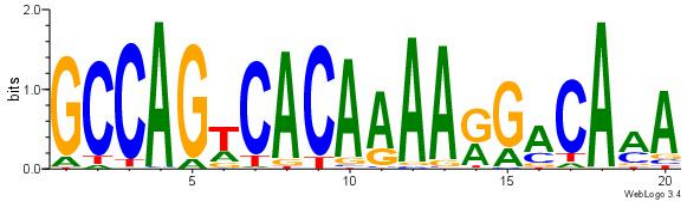

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

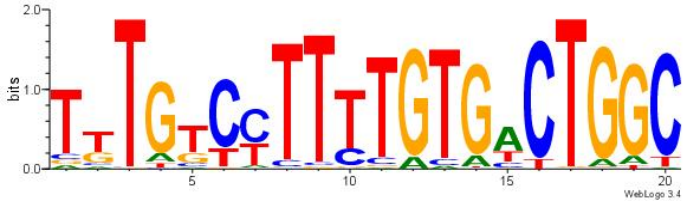

Dataset #: 1

Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15377

Alignment:

```
TGGAGAACCTTTATGTCTAG
TGCTGGAGGTCCACTCCAGA
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

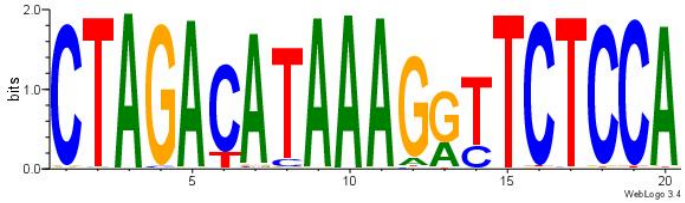

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

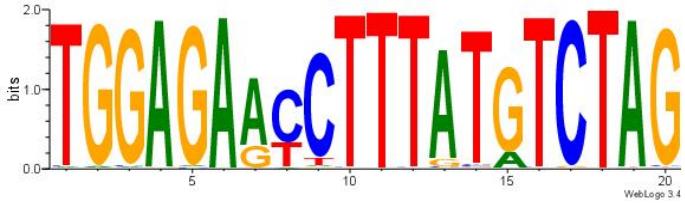

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.156996

Alignment:
ACCCAATWTGTAGTCTTTTA
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

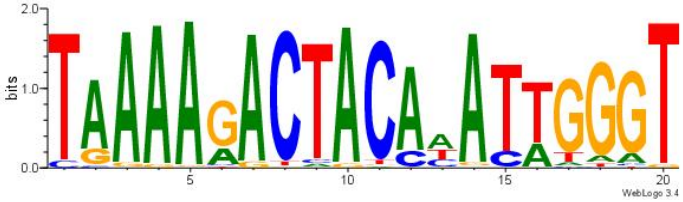

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

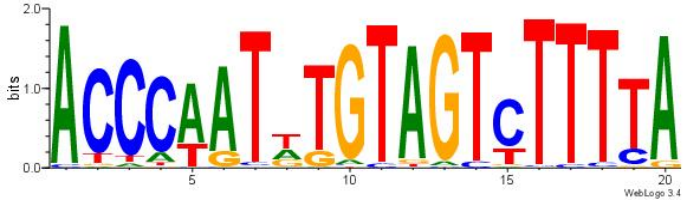

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.15742

Alignment:
GGGAGGTGTCTCCCAGTCAG
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

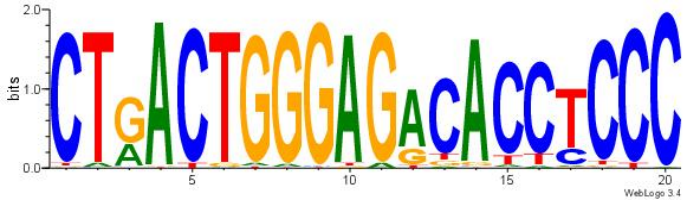

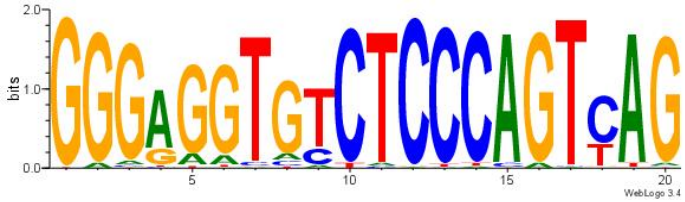

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15803

Alignment:

```
AGGACTGAGGGTGCCYRGGG
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

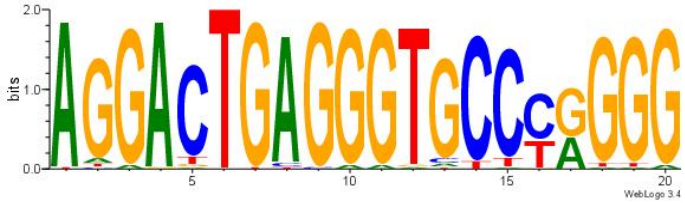

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

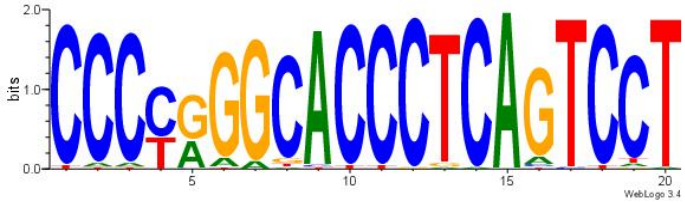

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.15891

Alignment:
MTCCTCCAGACCCCAGAATG
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

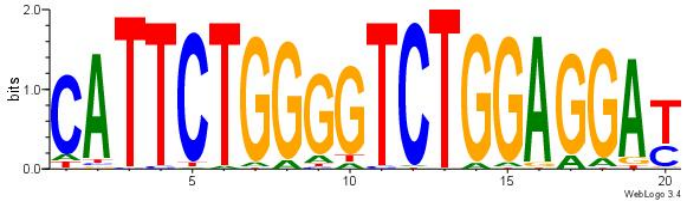

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

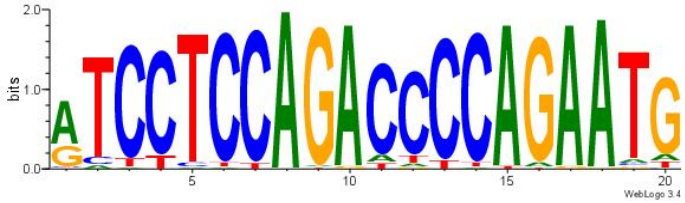

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.159209

Alignment:
AAATTACCCAGTCTCAGGTA
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

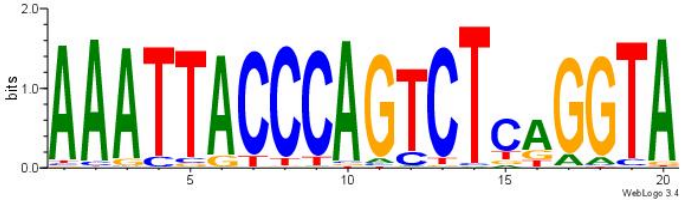

Reverse complement motif Consensus sequence:
TACCTGAGACTGGGTAATTT

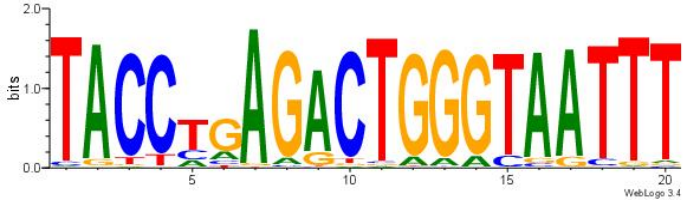

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160291

Alignment:
AAGCTGAGGGAGCCGGCTCC
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

Reverse complement motif Consensus sequence:
GGAGCCGGCTCCCTCAGCTT

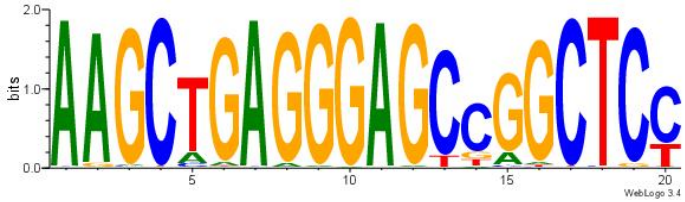

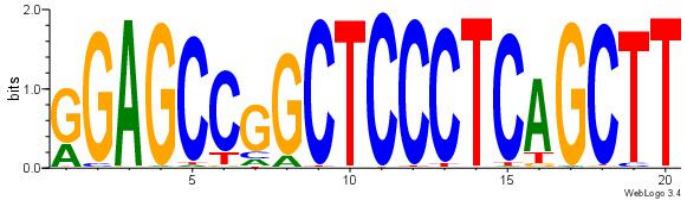

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.160354

Alignment:
GGATTTMKGACTTGCATGGG
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

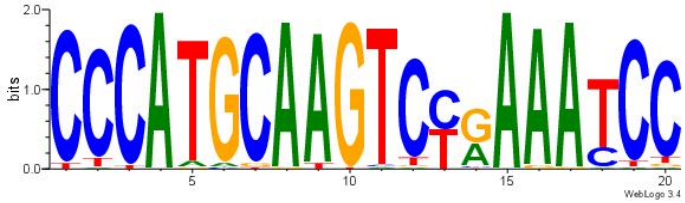

Reverse complement motif Consensus sequence:
GGATTTMKGACTTGCATGGG

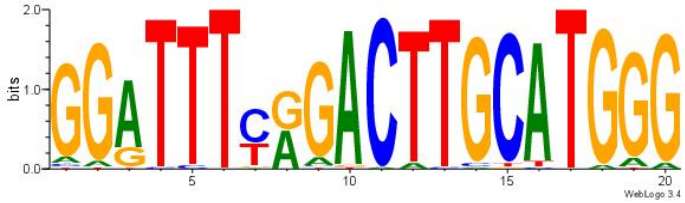

Dataset #:	1

Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.160993

Alignment:

```
ATTGGTGTATTTACAATCCC
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

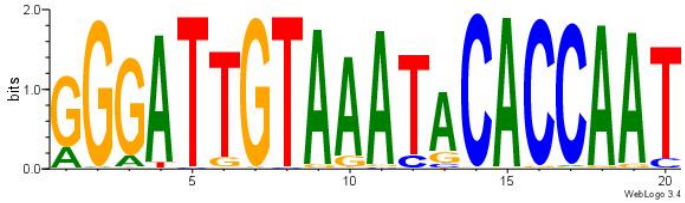

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.161191

Alignment:
CGTCGCTCACGCTGGGAGCT
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

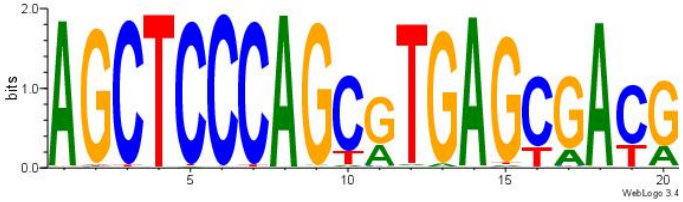

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

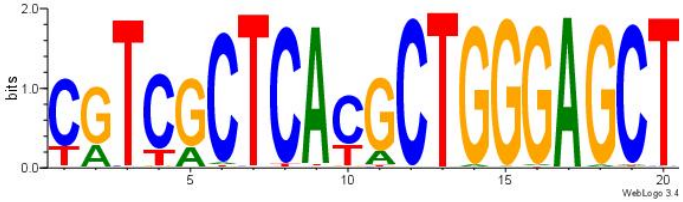

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.161962

Alignment:
ATGATCCAGCAATYCCACTH
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

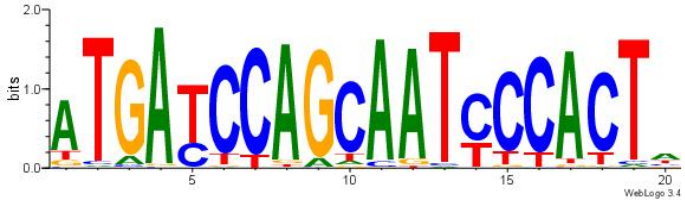

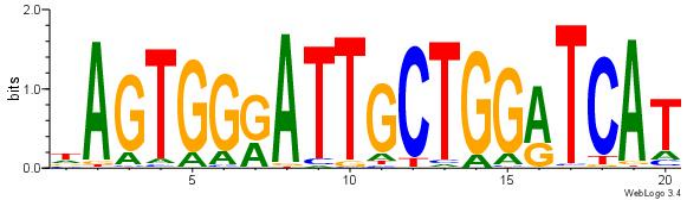

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.16197

Alignment:

```
CCTGCCATTGCYSAGGCTTG
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

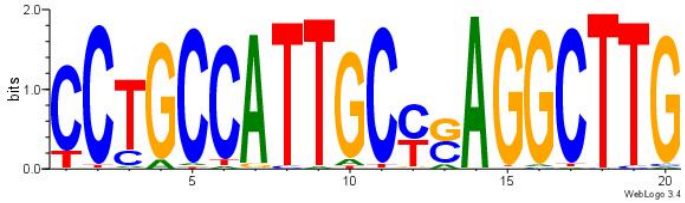

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

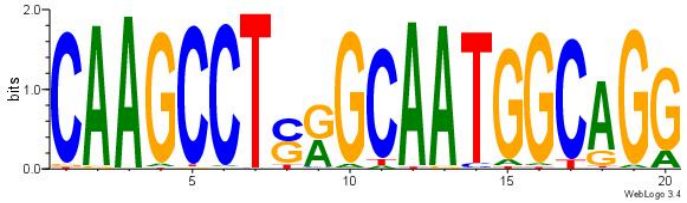

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.163117

Alignment:
GTKTMTATMTACCACATTTT
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

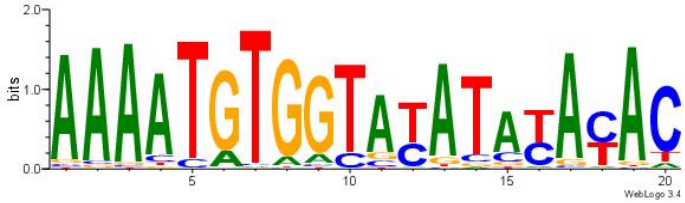

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

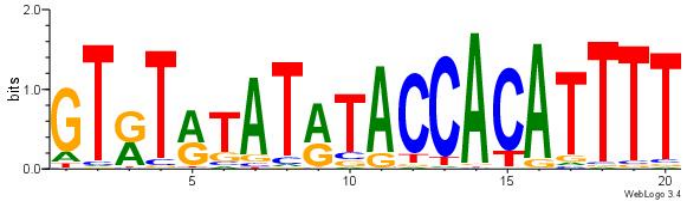

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.16336

Alignment:
CTTGCCCAAGGTCACACAGC
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

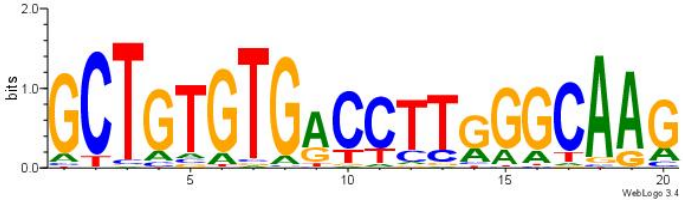

Reverse complement motif Consensus sequence:
CTTGCCCAAGGTCACACAGC

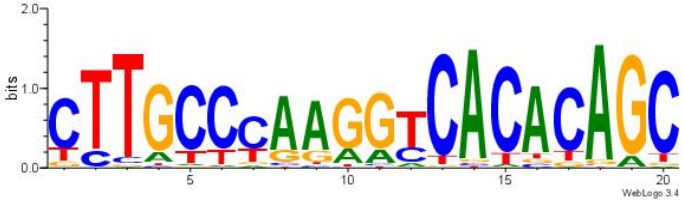

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.164667

Alignment:
GAAAGGGAACTCCCTGACCC
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

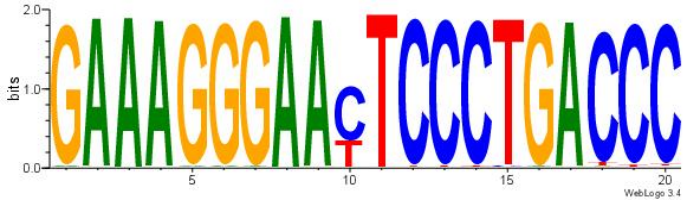

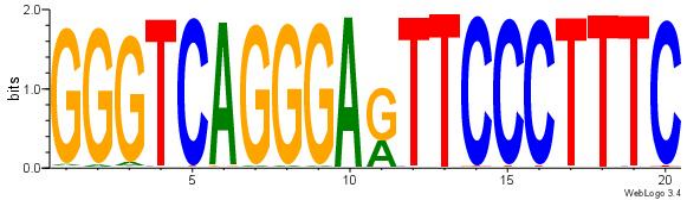

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.164708

Alignment:

```
AAGTTCTKGGKTACATGTGC
TGCTGGAGGTCCACTCCAGA
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

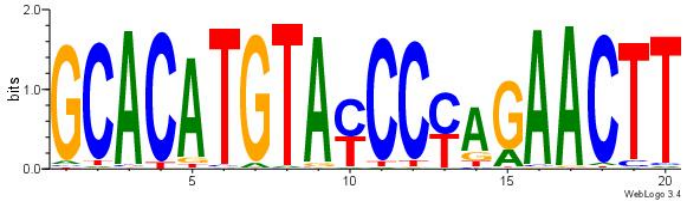

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

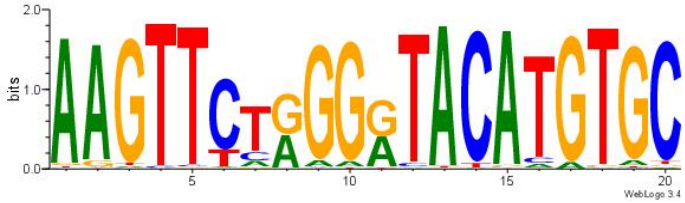

Dataset #:	1

Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.1648

Alignment:

```
AAGTCCAAGATCAAGGTGYY
TGCTGGAGGTCCACTCCAGA
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

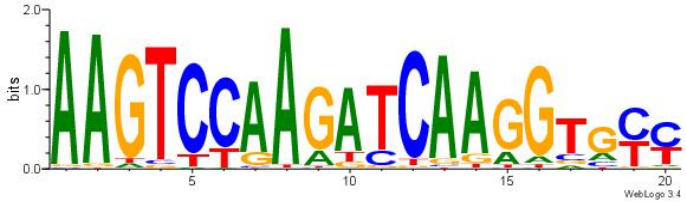

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

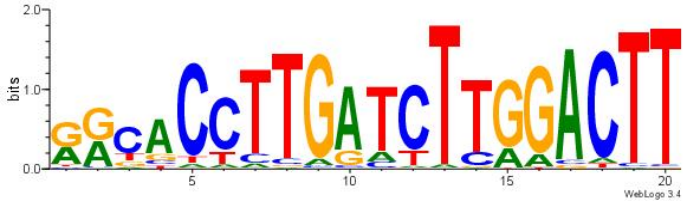

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.165965

Alignment:
ATAGGAATGCTTGTGATTTT
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

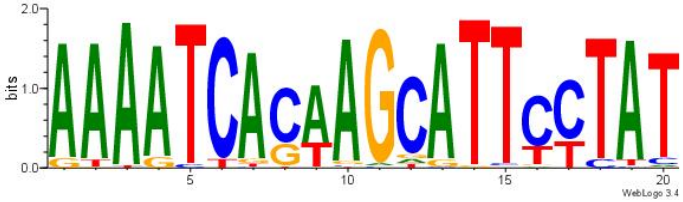

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

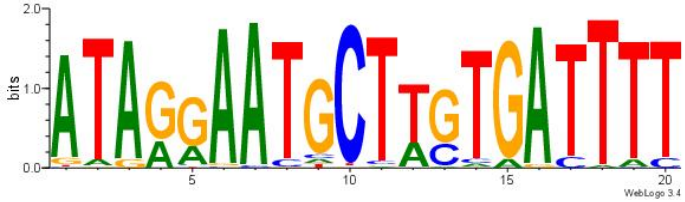

Dataset #: 1
Motif ID: 331
Motif name: Motif 331
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.166062

Alignment:
GCCTCCTTGAGCTGTGGTGG
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

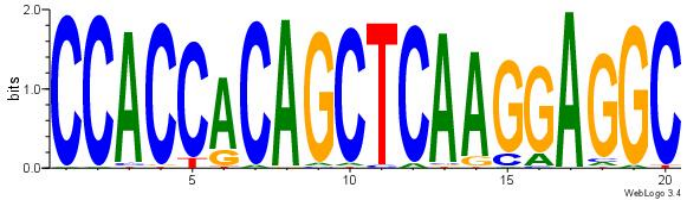

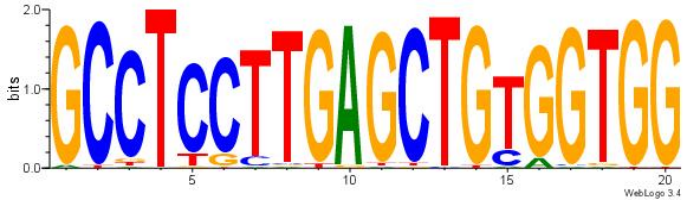

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.167447

Alignment:

```
CMTAGYACAGTGCCTGGCAC
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

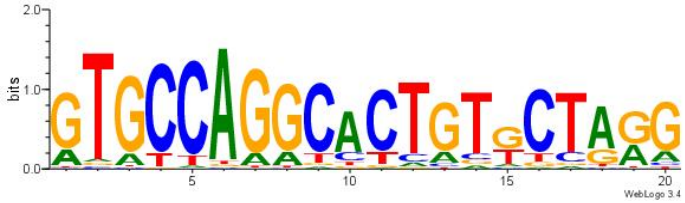

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

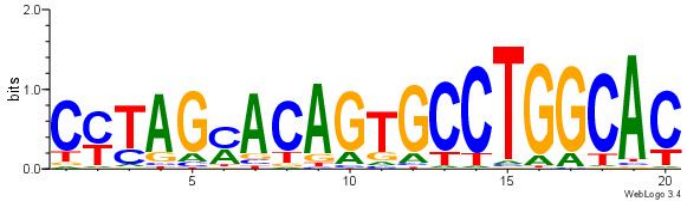

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.168492

Alignment:
GAGAGAGAGAGAGAGAGAGA
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

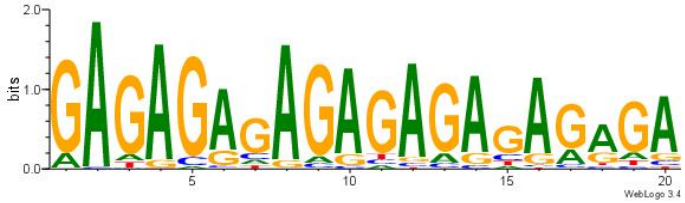

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

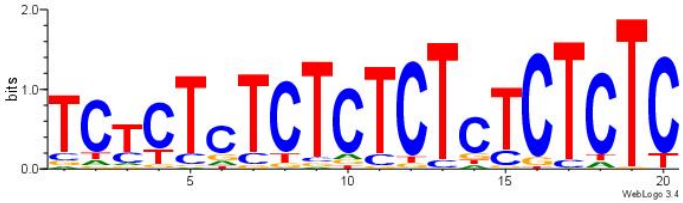

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.169351

Alignment:
AGGTTTGTTACATAGGTAWA
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

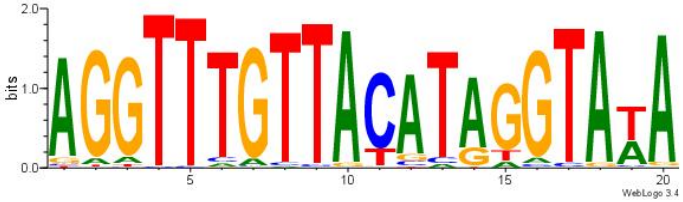

Reverse complement motif Consensus sequence:
TWTACCTATGTAACAAACCT

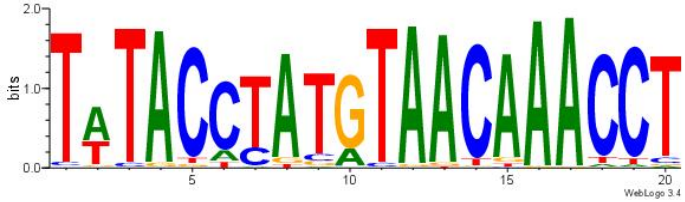

Dataset #: 1
Motif ID: 333
Motif name: Motif 333
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.169667

Alignment:
AAAGCTGGAGCTATTATCTA
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

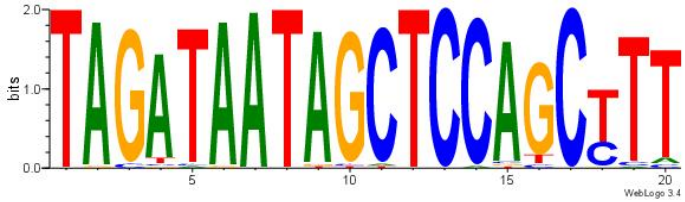

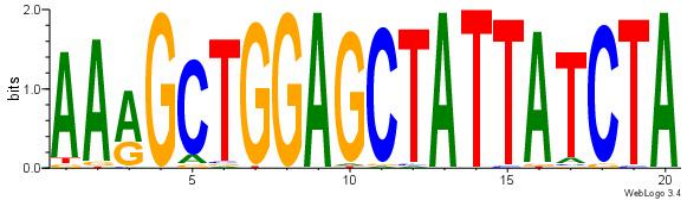

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.172041

Alignment:

```
AGAGCCAAATCATGARTGAA
TGCTGGAGGTCCACTCCAGA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

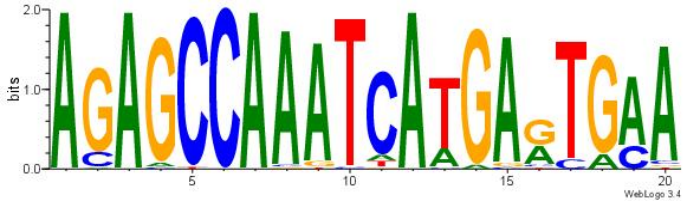

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

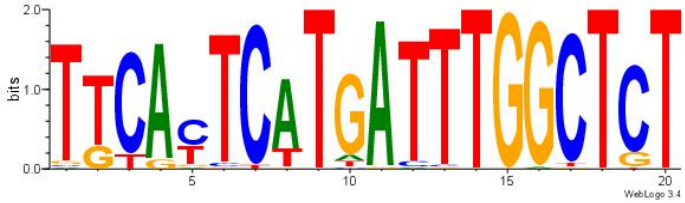

Dataset #: 1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.172672

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

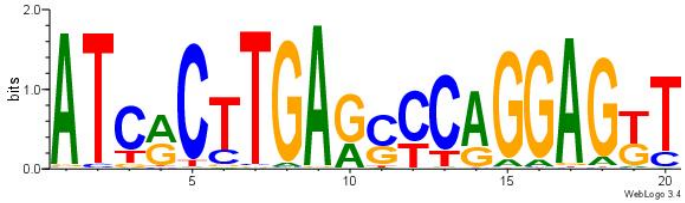

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

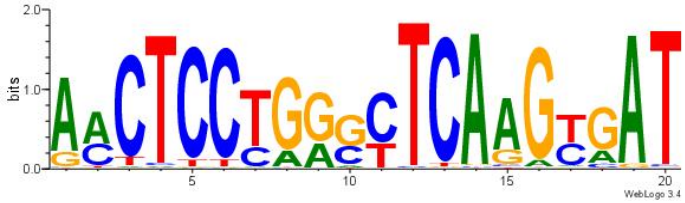

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.172816

Alignment:
GGTTCATCTCACTAGGGAGT
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

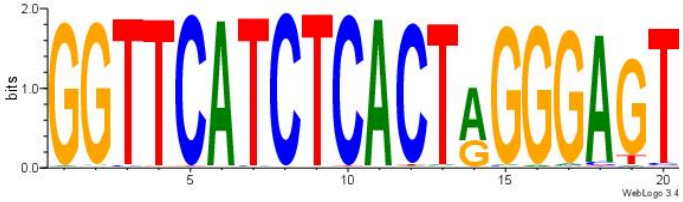

Reverse complement motif Consensus sequence:
ACTCCCTAGTGAGATGAACC

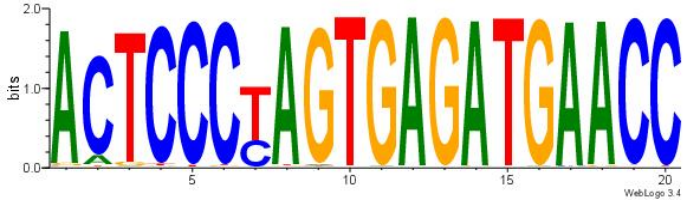

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.173551

Alignment:
CTGGGCTCCTGAGTCTGGTG
TCTGGAGTGGACCTCCAGCA

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence:
CACCAGACTCAGGAGCCCAG

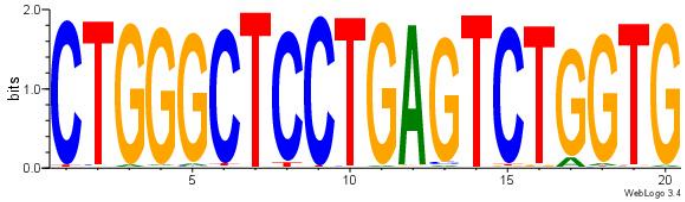

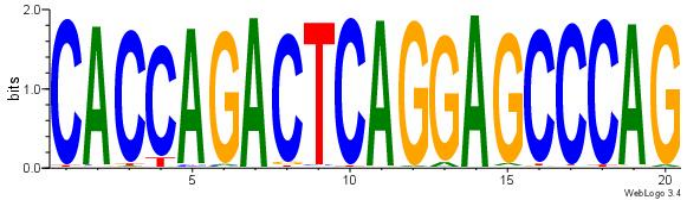

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.174201

Alignment:

```
MGGGATATAATCTCCTGGTG
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

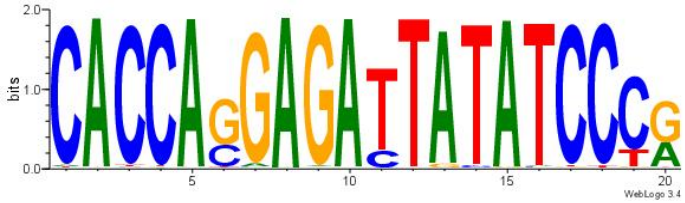

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

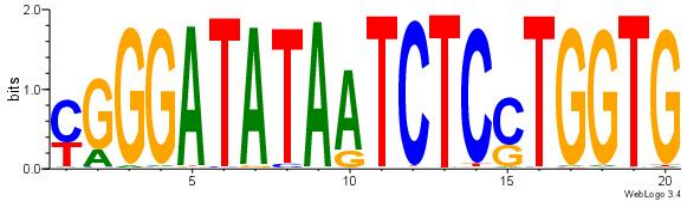

Dataset #:	1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.175589

Alignment:

```
AAGCAGGGCGAGGCATTGCC
TCTGGAGTGGACCTCCAGCA
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

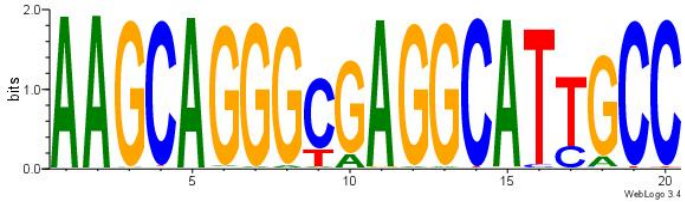

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

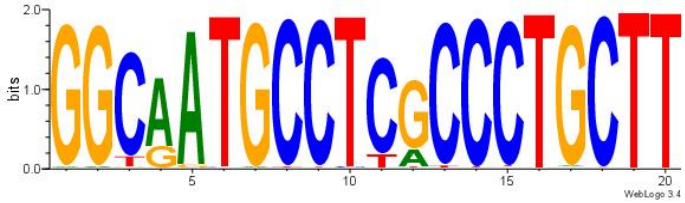

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.177298

Alignment:
GTTATTAATTGGCCTAATTT
TGCTGGAGGTCCACTCCAGA

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

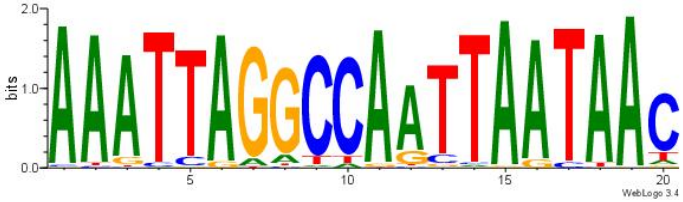

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1 Motif ID: 351 Motif name: Motif 351

Original motif Consensus sequence: ATTMGGGTGGG

Reverse complement motif Consensus sequence: CCCACCCYAAT

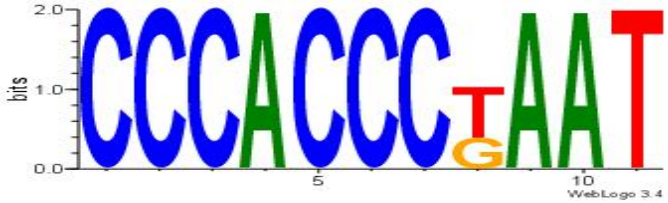

Best Matches for Motif ID 351 (Highest to Lowest)

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0511125

Alignment:
CCCACACCCTTATTA
--CCCACCCYAAT--

Original motif Consensus sequence: CCCACACCCTTATTA

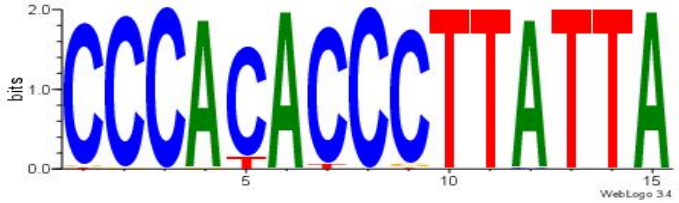

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

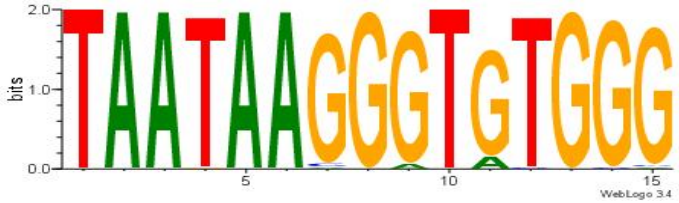

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0610932

Alignment:
AGTTCCGGGTGGGCGTGGG
--ATTMGGGTGGG------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

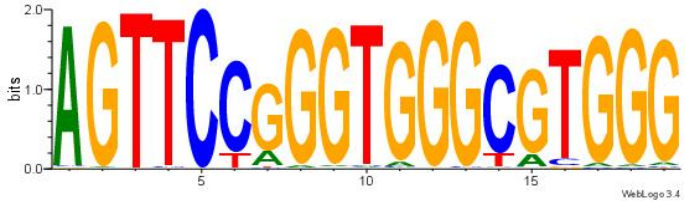

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

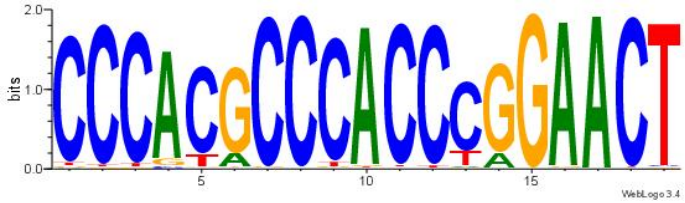

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0771299

Alignment:

```
CAGGCGGCTGGGAG
-ATTMGGGTGGG--
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

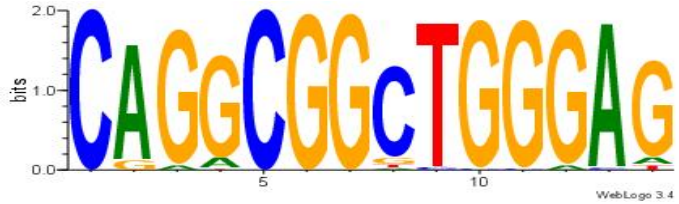

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

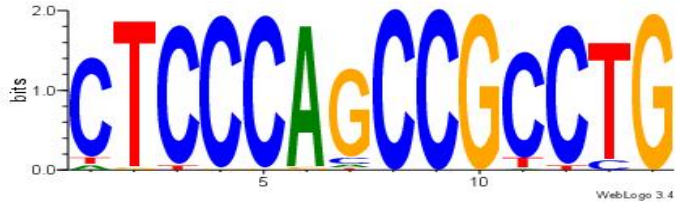

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0778643

Alignment:

```
GGCACTCCCTAGTG
--CCCACCCYAAT-
```

Original motif Consensus sequence: CACTAGGGAGTGCC

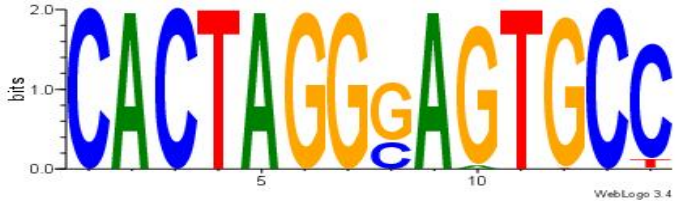

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

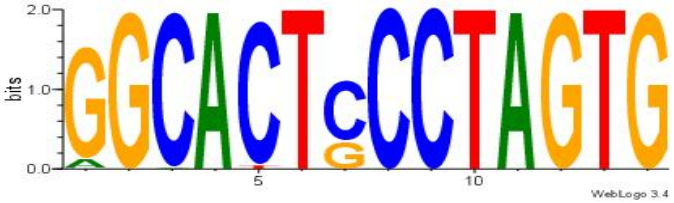

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

Similarity score: 0.0845161

Alignment:
GCCCTCACCAGAAGC
-CCCACCCYAAT---

Original motif Consensus sequence: GCCCTCACCAGAAGC

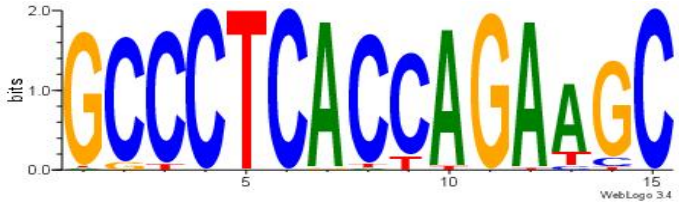

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

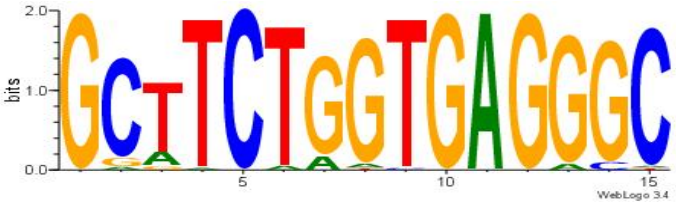

Dataset #: 1
Motif ID: 155
Motif name: Motif 155
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0851871

Alignment:
TCCCTCCCGGACGGGGYGGC
--------CCCACCCYAAT-

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

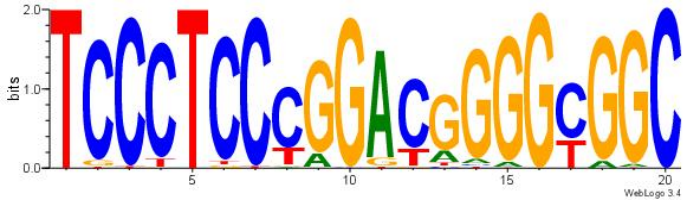

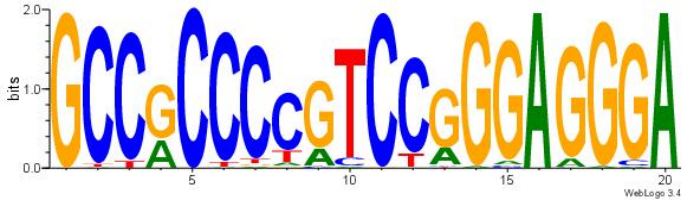

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0855351

Alignment:

```
ACAGGCTTTGTGTGAGCA
-----ATTMGGGTGGG--
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

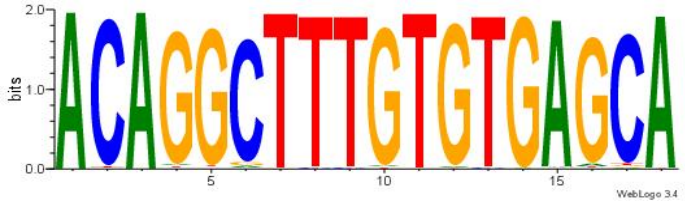

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

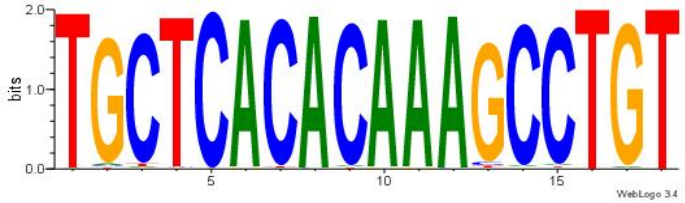

Dataset #: 1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.085666

Alignment:

```
AAGACCTTCCAGTGGGACAA
-----ATTMGGGTGGG----
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

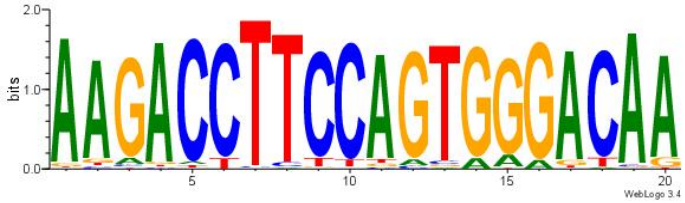

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

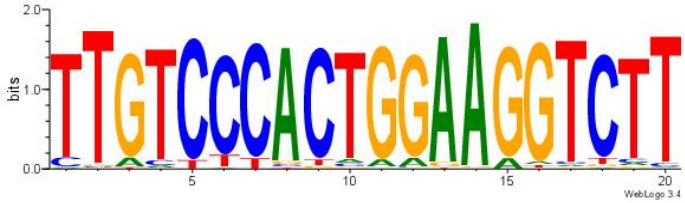

Dataset #:	1
Motif ID:	28
Motif name:	Motif 28
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.0863147

Alignment:
AATGGGGTGAC
ATTMGGGTGGG

Original motif Consensus sequence: GTCACCCCATT

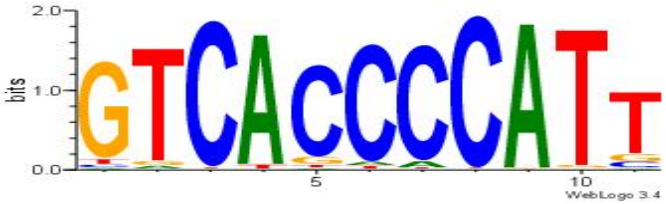

Reverse complement motif Consensus sequence: AATGGGGTGAC

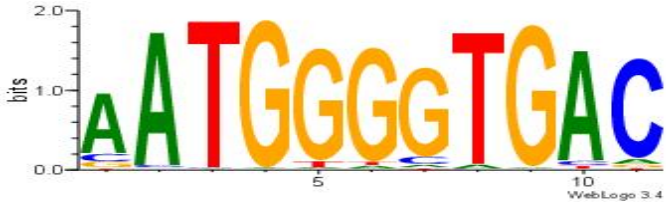

Dataset #: 1
Motif ID: 321
Motif name: Motif 321
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.0885669

Alignment:
AAGCTCGAACTGGGTGGAGC
-------ATTMGGGTGGG--

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

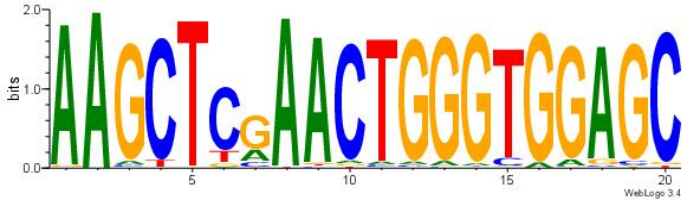

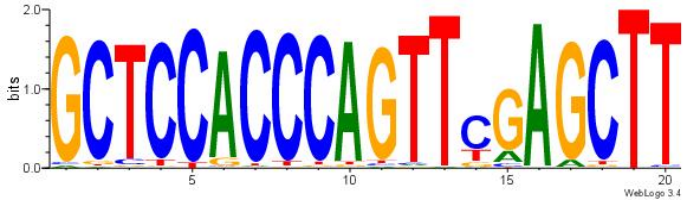

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0893774

Alignment:

```
CCCATGCAAGTCYRAAATCC
---------CCCACCCYAAT
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

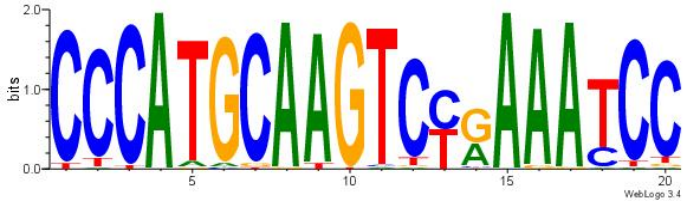

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

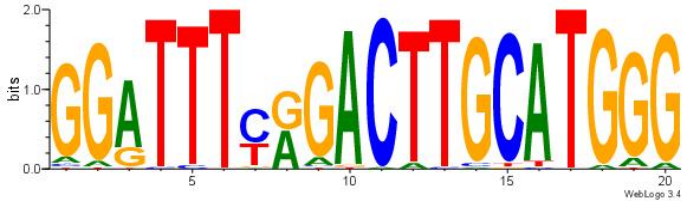

Dataset #:	1

Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0902426

Alignment:

```
TGATATGGTTTGG
ATTMGGGTGGG--
```

Original motif Consensus sequence: CCAAACCATATCA

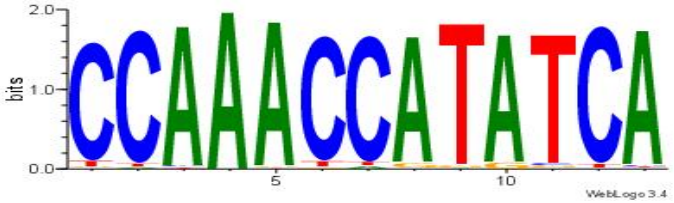

Reverse complement motif Consensus sequence: TGATATGGTTTGG

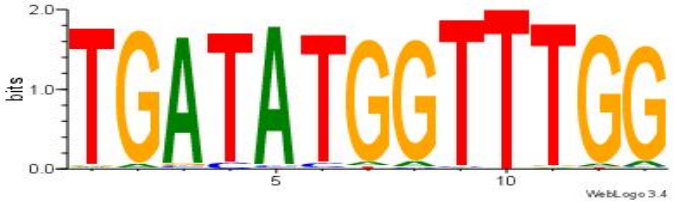

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0908036

Alignment:
AGGCGGCTGGGAGG
ATTMGGGTGGG---

Original motif Consensus sequence: AGGCGGCTGGGAGG

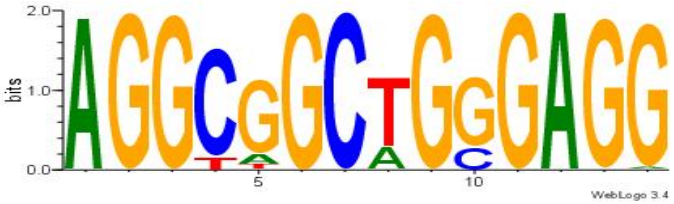

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	40
Motif name:	Motif 40
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0913183

Alignment:
ACTTTGGGAGGC
-ATTMGGGTGGG

Original motif Consensus sequence: ACTTTGGGAGGC

Reverse complement motif Consensus sequence: GCCTCCCAAAGT

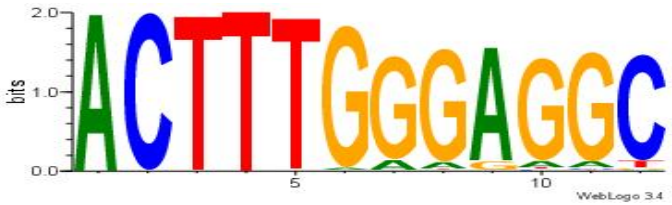

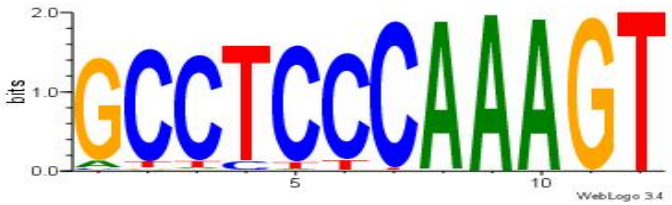

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0921805

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-ATTMGGGTGGG--------
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

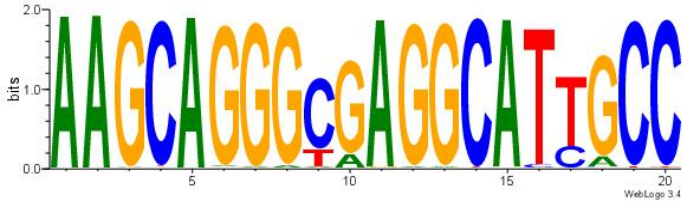

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

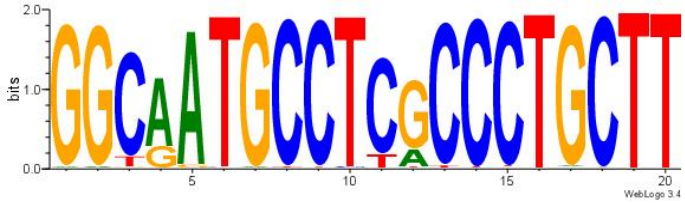

Dataset #:	1

Motif ID:	223
Motif name:	Motif 223
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0922712

Alignment:

```
AGCCTCCYGAGTA
-CCCACCCYAAT-
```

Original motif Consensus sequence: AGCCTCCYGAGTA

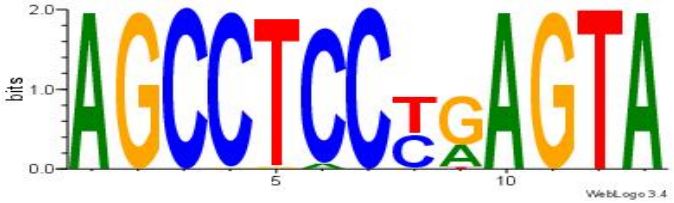

Reverse complement motif Consensus sequence: TACTCMGGAGGCT

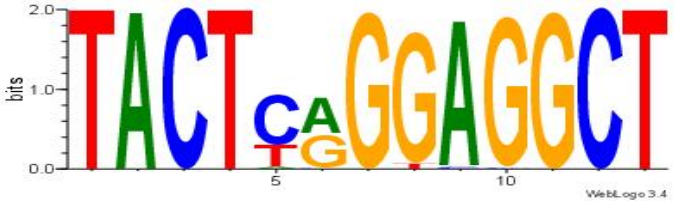

Dataset #:	1
Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0923443

Alignment:
GCGCTCKTCGGGGAGGCTCG
---ATTMGGGTGGG------

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

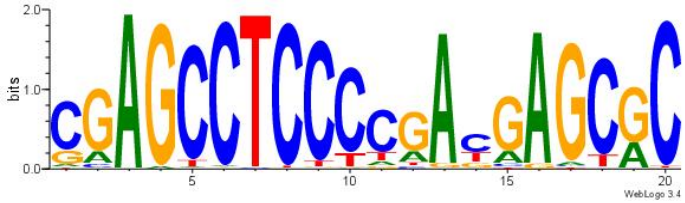

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

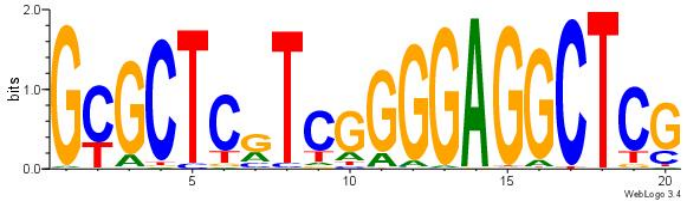

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0923451

Alignment:
GAAHCAACCKAAKTGTCCAT
--CCCACCCYAAT-------

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

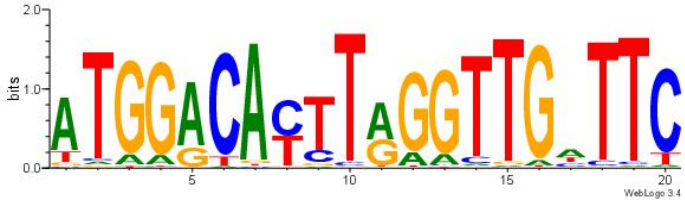

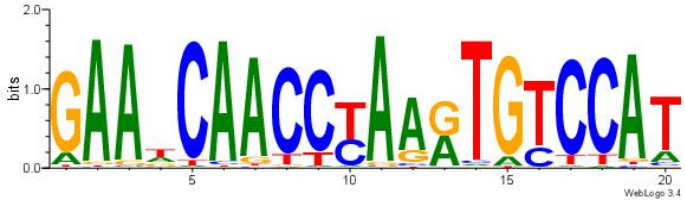

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0933811

Alignment:

```
CTGTTTGCCTGGGTATCA
-----ATTMGGGTGGG--
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

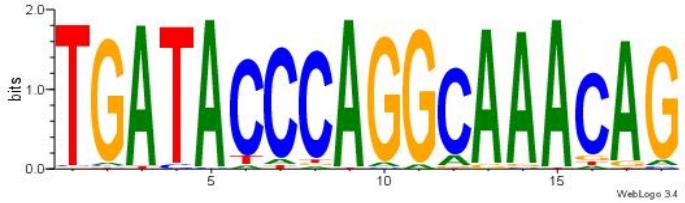

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

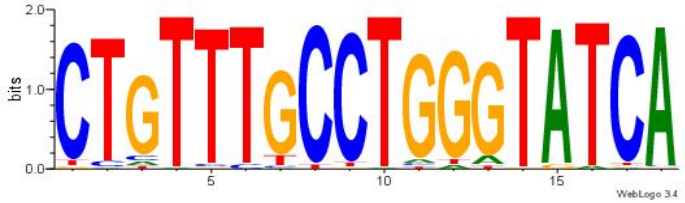

Dataset #:	1

Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0943695

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----CCCACCCYAAT----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

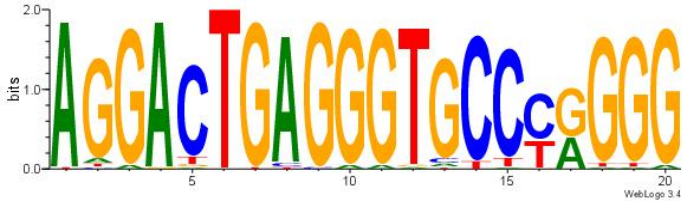

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

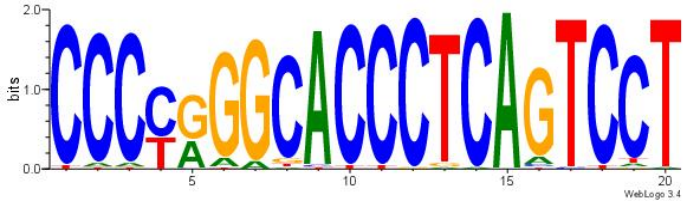

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.094979

Alignment:
GCCRGCCCTGCYGGCC
----CCCACCCYAAT-

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

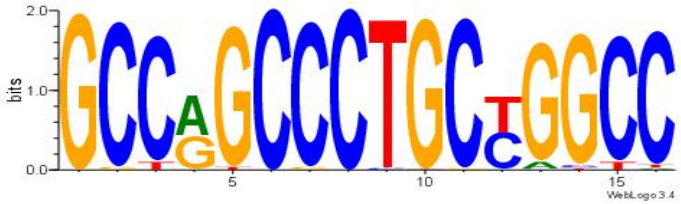

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

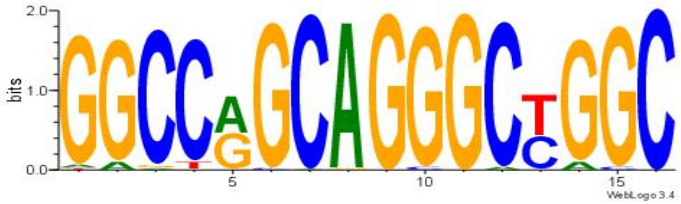

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0962466

Alignment:
CGTCGCTCACGCTGGGAGCT
----ATTMGGGTGGG-----

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

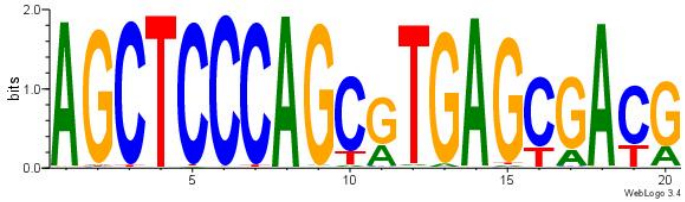

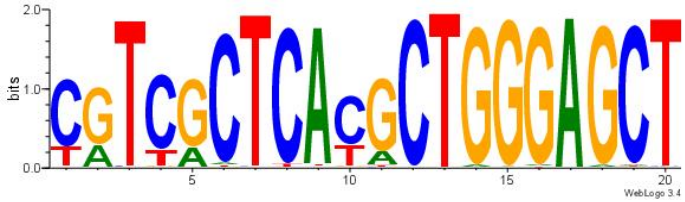

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0986153

Alignment:

```
CAGAAATCACCCGTCTT
-CCCACCCYAAT-----
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

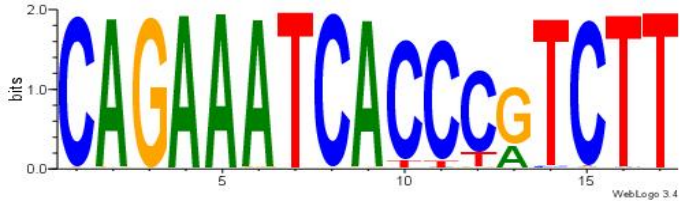

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

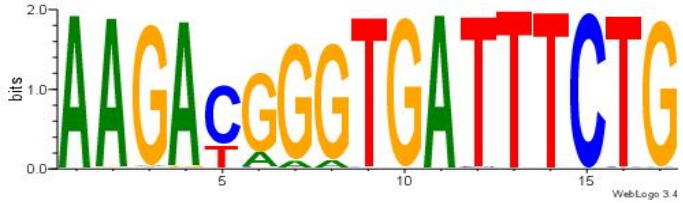

Dataset #: 1

Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0989947

Alignment:

```
CTTTCTGGGCTGGCCAAGG
-----ATTMGGGTGGG---
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

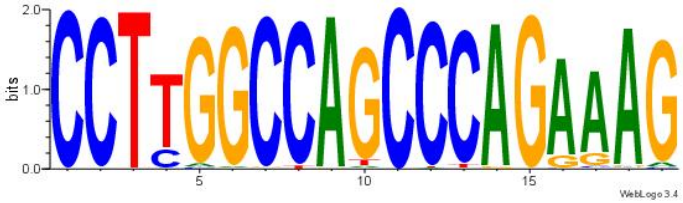

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

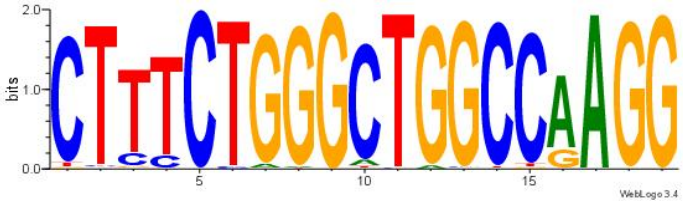

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0994327

Alignment:
TTTTATAGGATTTGGG
-ATTMGGGTGGG----

Original motif Consensus sequence: CCCAAATCCTATAAAA

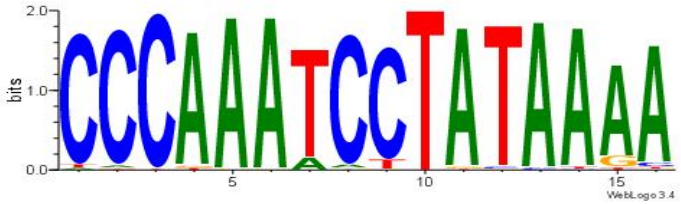

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

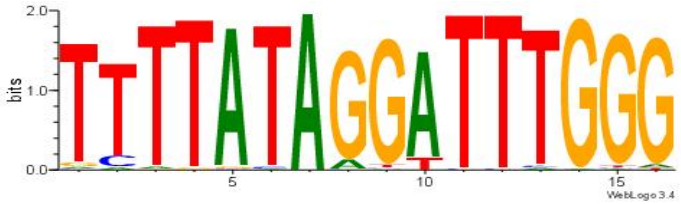

Dataset #: 1
Motif ID: 201
Motif name: Motif 201
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0994906

Alignment:
ACCKTCGCGGTGAGTGTTAC
------ATTMGGGTGGG---

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

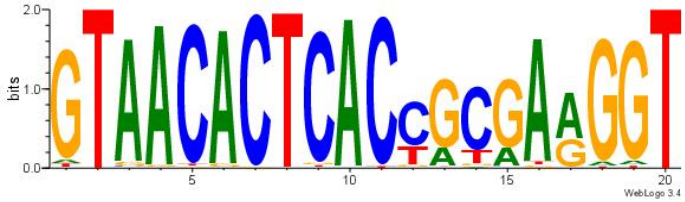

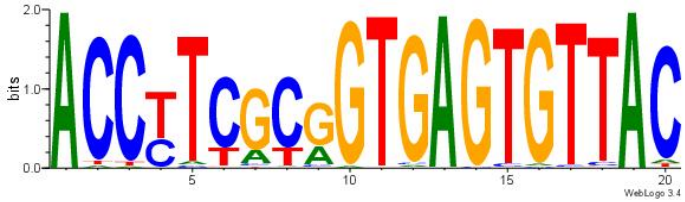

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.100027

Alignment:

```
GGCACTGCTGGGGGACCCAG
------ATTMGGGTGGG---
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

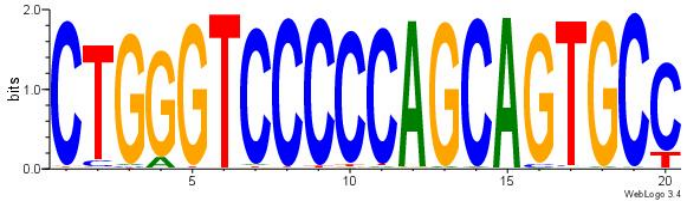

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

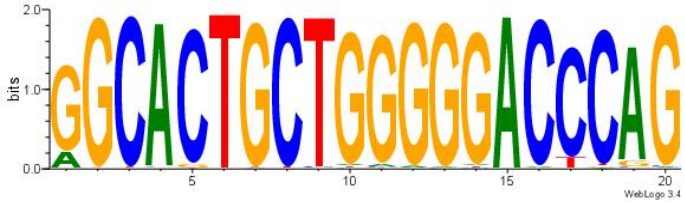

Dataset #:	1

Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.100287

Alignment:

```
ACATCCCAGACGATGGGCG
----CCCACCCYAAT----
```

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

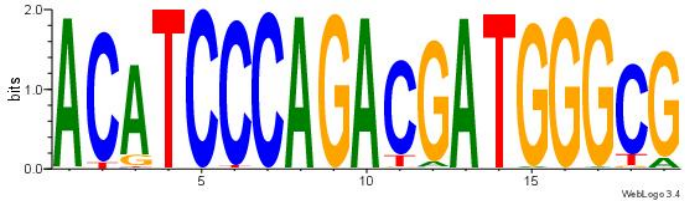

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

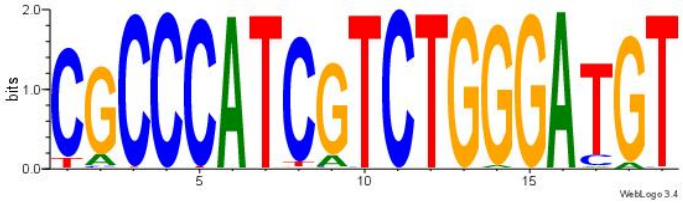

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11

Similarity score: 0.100898

Alignment:
ACTTTGGACTGTGGACTTTT
-------ATTMGGGTGGG--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

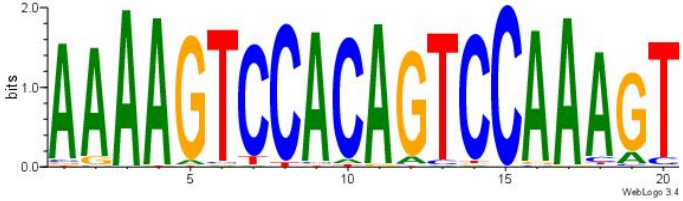

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

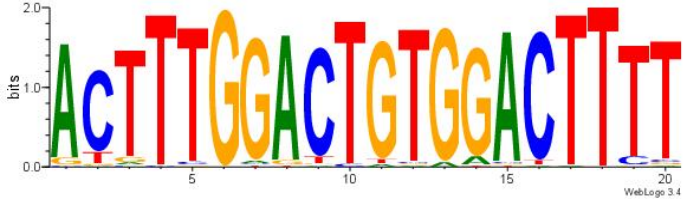

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 11
Similarity score: 0.101009

Alignment:
CCCAAATCTCATSTTGAAT
-------CCCACCCYAAT-

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

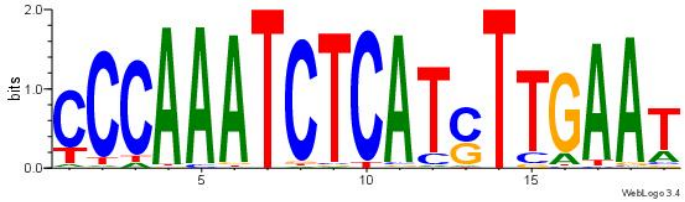

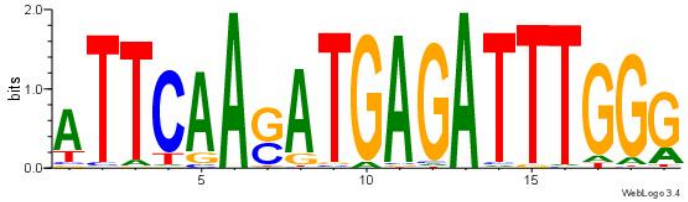

Dataset #: 1
Motif ID: 128
Motif name: Motif 128
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.101283

Alignment:
CCGCACTCGGAGCRG
---CCCACCCYAAT-

Original motif Consensus sequence: CCGCACTCGGAGCRG

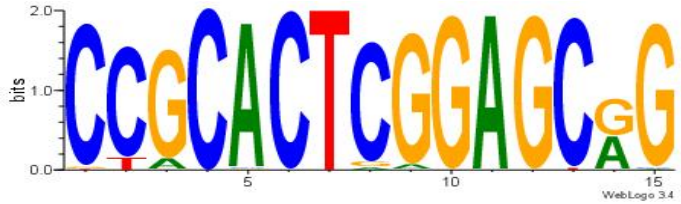

Reverse complement motif Consensus sequence: CMGCTCCGAGTGCGG

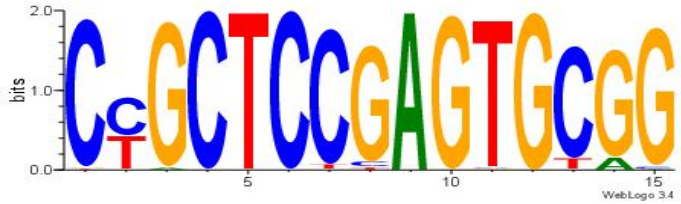

Dataset #: 1

Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.102212

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
------ATTMGGGTGGG---
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

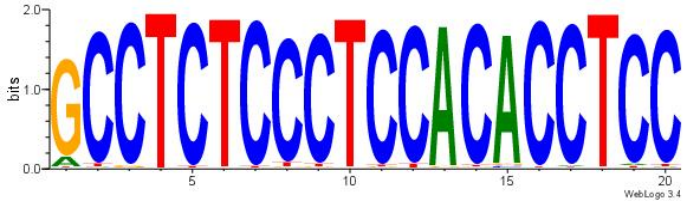

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

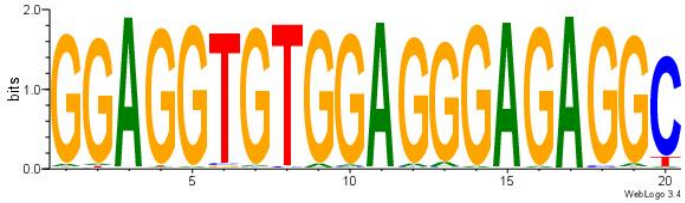

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11

Similarity score: 0.102547

Alignment:
GGTGGGGGGGTCAGCCCCC
--------ATTMGGGTGGG

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

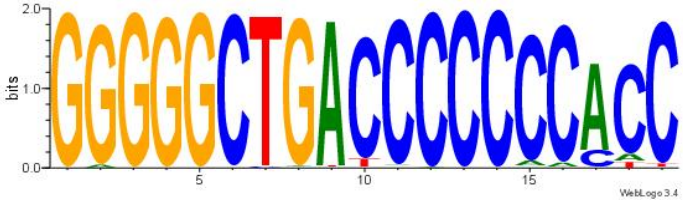

Reverse complement motif Consensus sequence:
GGTGGGGGGGTCAGCCCCC

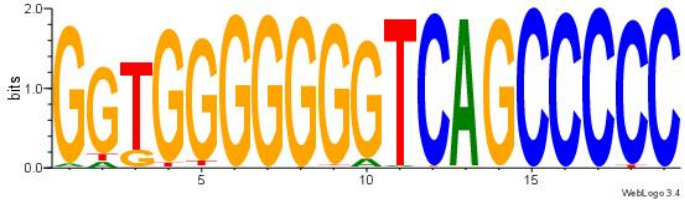

Dataset #: 1
Motif ID: 350
Motif name: Motif 350
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.102583

Alignment:
TGCTGGAGGTCCACTCCAGA
---------CCCACCCYAAT

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence:
TGCTGGAGGTCCACTCCAGA

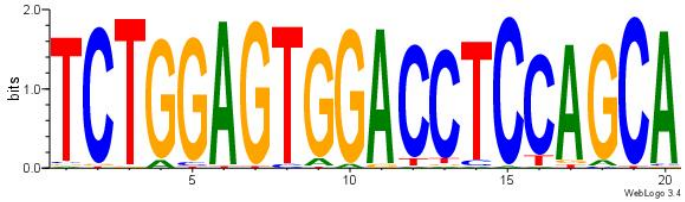

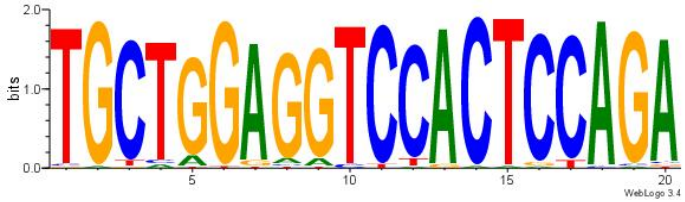

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.102633

Alignment:

```
AAATTACCCAGTCTCAGGTA
---CCCACCCYAAT------
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

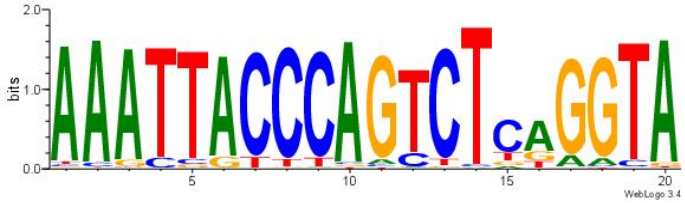

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

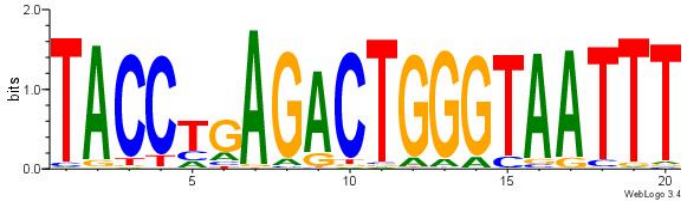

Dataset #: 1

Motif ID:	298
Motif name:	Motif 298
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.102678

Alignment:

```
GGTCCTCCTCTAT
--CCCACCCYAAT
```

Original motif Consensus sequence: ATAGAGGAGGACC

Reverse complement motif Consensus sequence: GGTCCTCCTCTAT

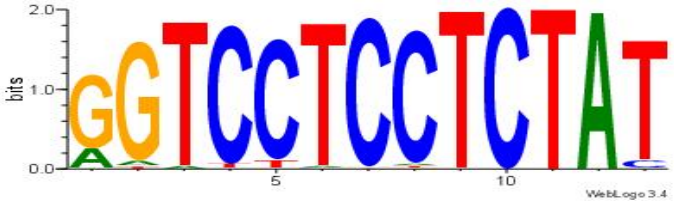

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.102794

Alignment:
ACTCAGCCCRCCTGCACCC
--CCCACCCYAAT------

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

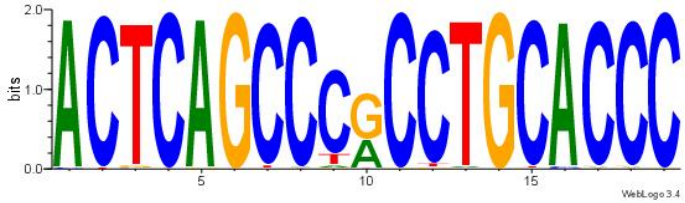

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

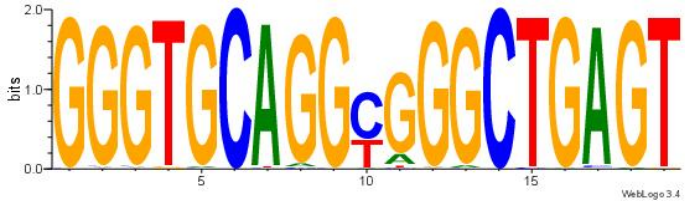

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.102848

Alignment:
GGATGGTGAGGGC
-ATTMGGGTGGG-

Original motif Consensus sequence: GCCCTCACCATCC

Reverse complement motif Consensus sequence: GGATGGTGAGGG

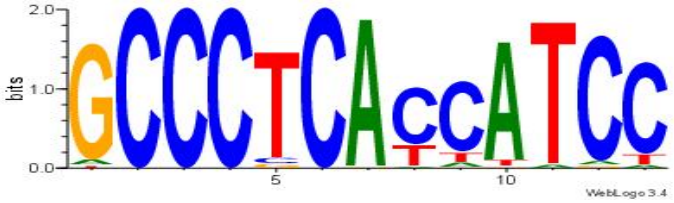

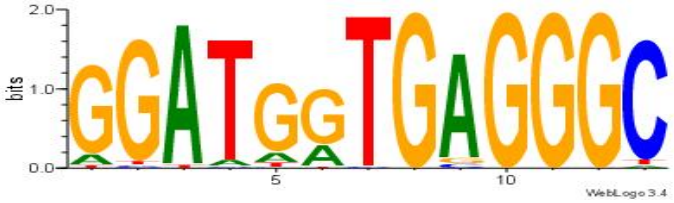

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.103376

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-------ATTMGGGTGGG--
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

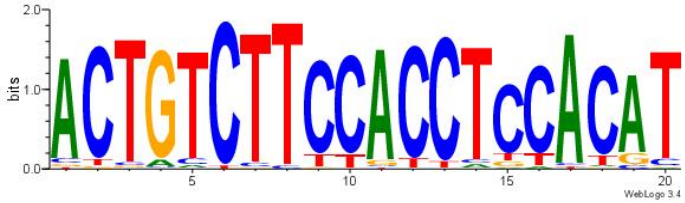

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

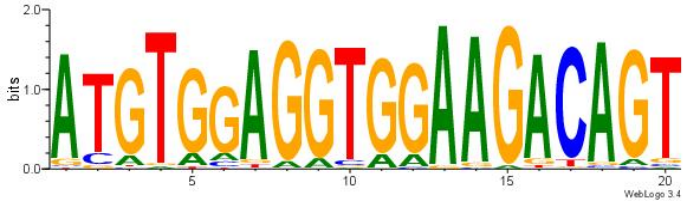

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.103563

Alignment:

```
GCCTCCTTGAGCTGTGGTGG
----ATTMGGGTGGG-----
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

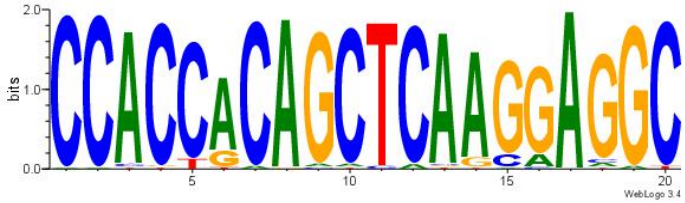

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

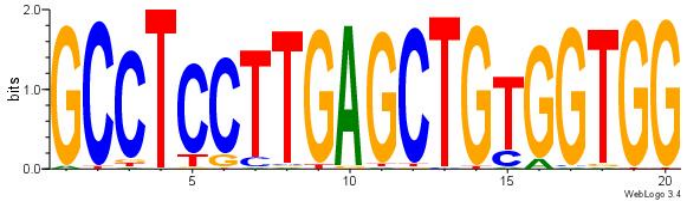

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.103705

Alignment:
GGGATTGTAAATACACCAAT
---------CCCACCCYAAT

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

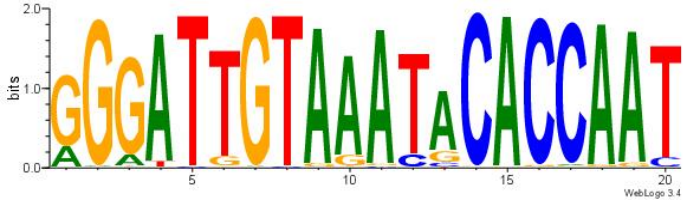

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.103883

Alignment:
TCKMGCCACTGCACTCCAGC
----CCCACCCYAAT-----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

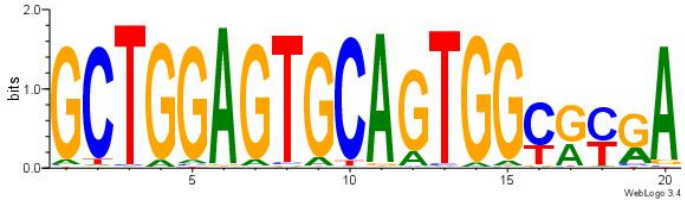

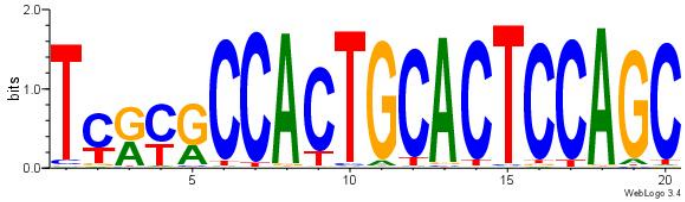

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.103933

Alignment:

```
ACCTGGAAAATCGGGTCACT
--------ATTMGGGTGGG-
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

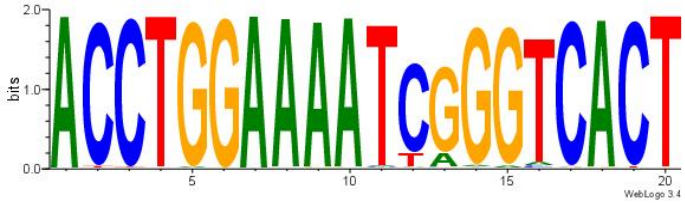

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

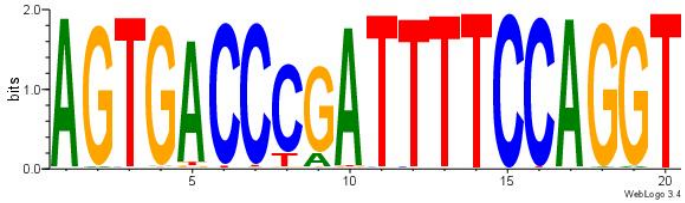

Dataset #: 1

Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.104461

Alignment:

```
TACACCCTCCGCAGCC
----CCCACCCYAAT-
```

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

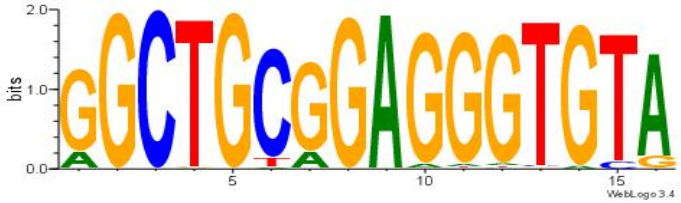

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

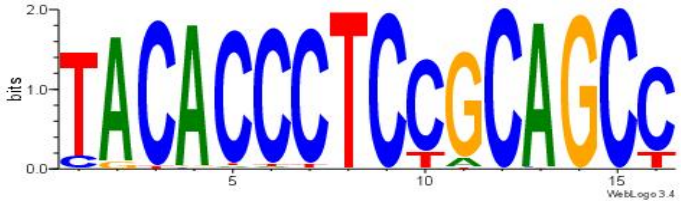

Dataset #:	1
Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.104492

Alignment:
CTTGCGCTTCCCRRGTGA
--CCCACCCYAAT-----

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

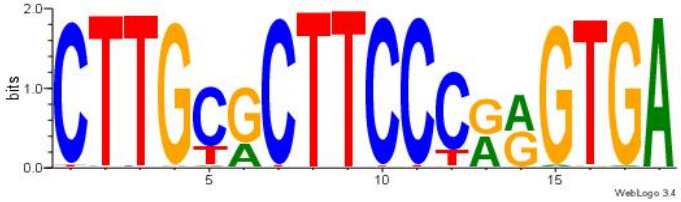

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

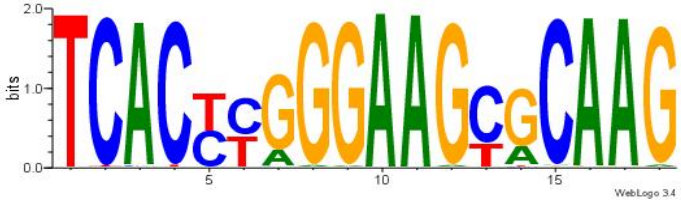

Dataset #: 1
Motif ID: 270
Motif name: Motif 270
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.104557

Alignment:
CCATGATTGTRAGG
--ATTMGGGTGGG-

Original motif Consensus sequence: CCATGATTGTRAGG

Reverse complement motif Consensus sequence: CCTMACAATCATG

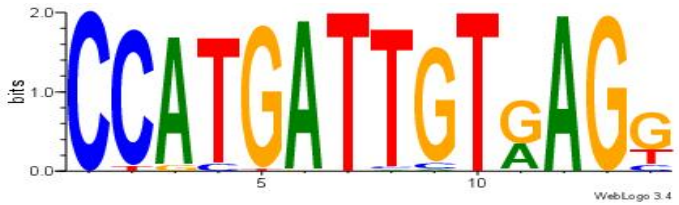

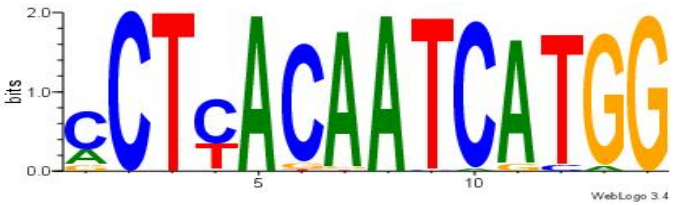

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.104716

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-----ATTMGGGTGGG----
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

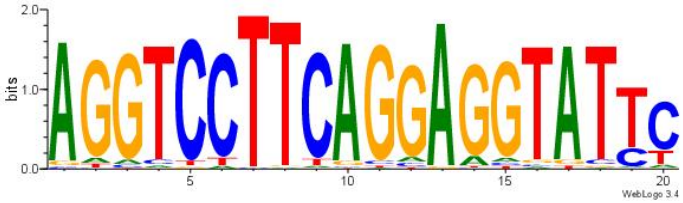

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

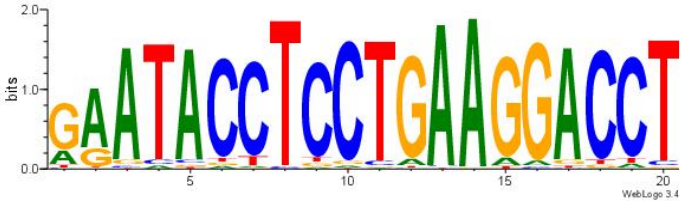

Dataset #: 1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.105109

Alignment:

```
CATTCTGGGGTCTGGAGGAY
-ATTMGGGTGGG--------
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

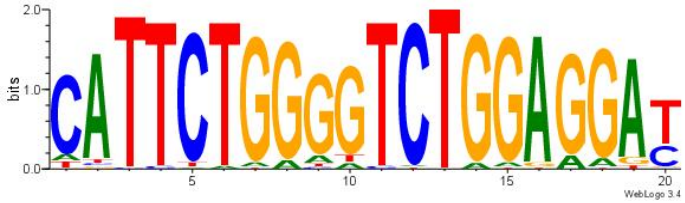

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

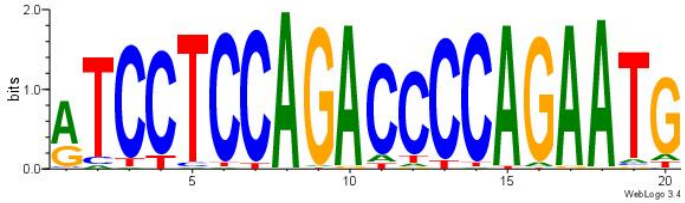

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.105713

Alignment:
GAAACTGCTTTGTGATGTGT
-ATTMGGGTGGG--------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

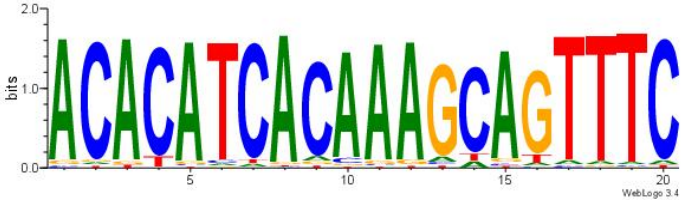

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

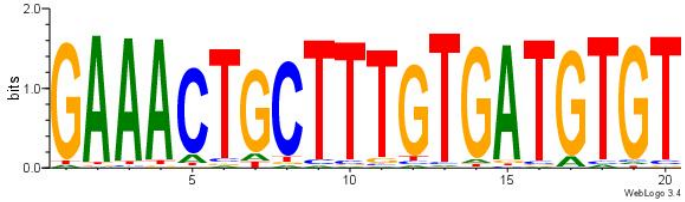

Dataset #: 1
Motif ID: 252
Motif name: Motif 252
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 11
Similarity score: 0.105804

Alignment:
AATTAGCYRGG
ATTMGGGTGGG

Original motif Consensus sequence: AATTAGCYRGG

Reverse complement motif Consensus sequence: CCMKGCTAATT

Dataset #: 1 Motif ID: 352 Motif name: Motif 352

Original motif Consensus sequence: CATCTTCA

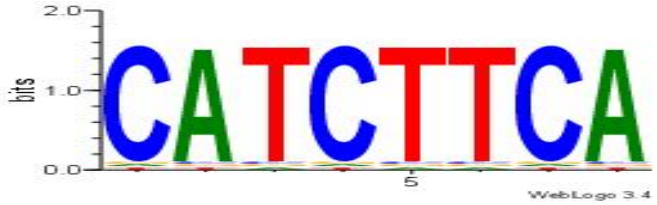

Reverse complement motif Consensus sequence: TGAAGATG

Best Matches for Motif ID 352 (Highest to Lowest)

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0276887

Alignment:

```
TCAGGAGTGAAGCTGC
-------TGAAGATG-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

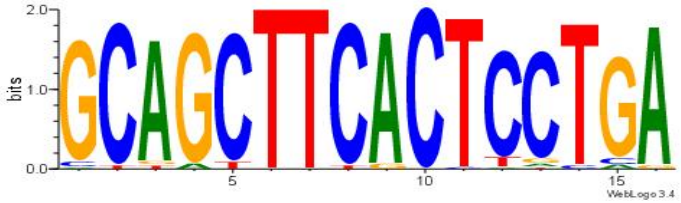

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

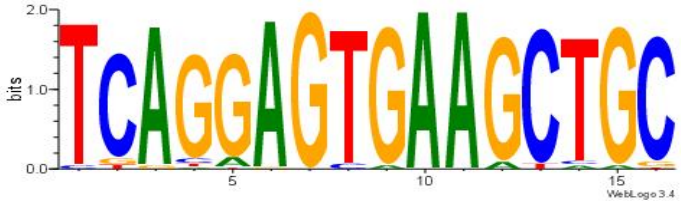

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0334876

Alignment:

```
AGTTCTTAAAGATGGT
--TGAAGATG------
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

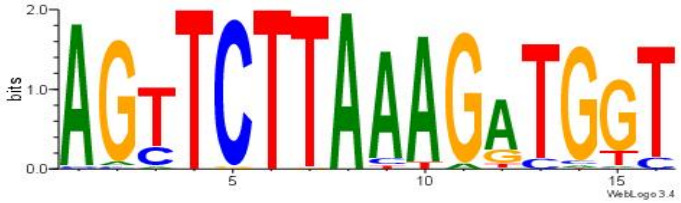

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

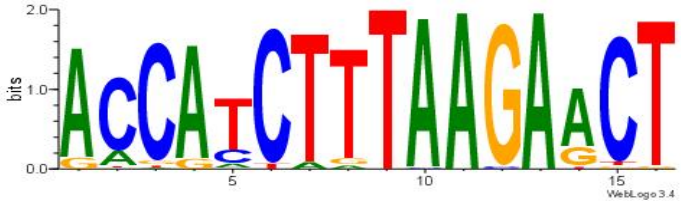

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0397493

Alignment:

```
ATTCAASATGAGATTTGGG
--TGAAGATG---------
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

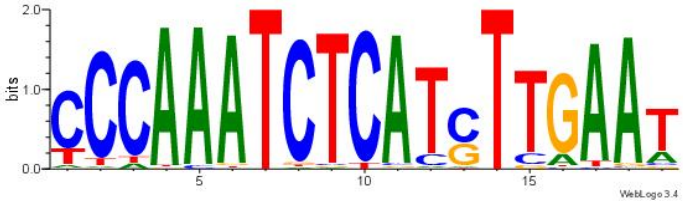

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

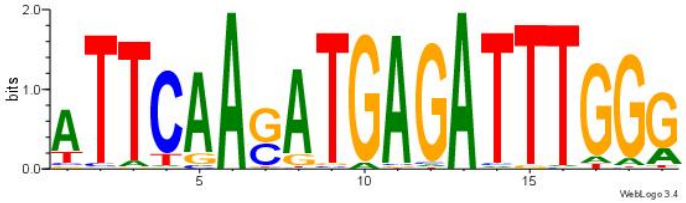

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

Number of overlap: 8
Similarity score: 0.0443445

Alignment:
ACATCMTCTGAAATCTAGG
----------CATCTTCA-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

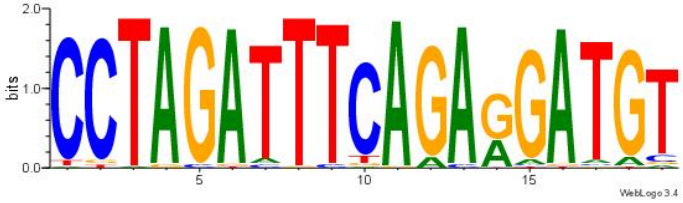

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

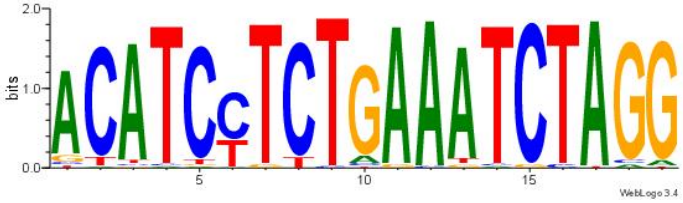

Dataset #: 1
Motif ID: 245
Motif name: Motif 245
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0449237

Alignment:
CAGACTGCCTCCTCAA
-------CATCTTCA-

Original motif Consensus sequence: CAGACTGCCTCCTCAA

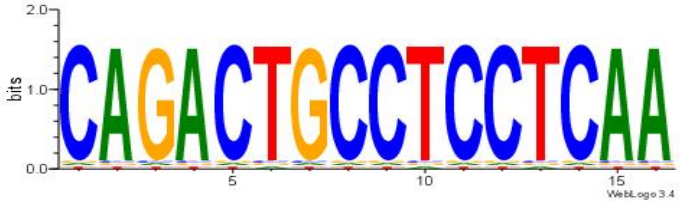

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

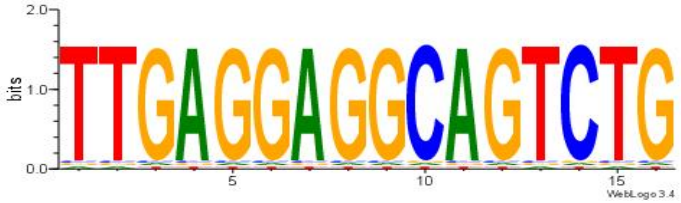

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0500791

Alignment:

```
ACCGAGMKMGCAGCTTCGGG
--CATCTTCA----------
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

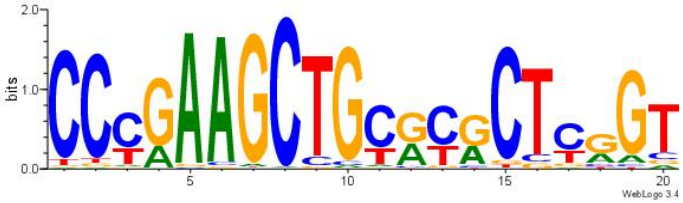

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

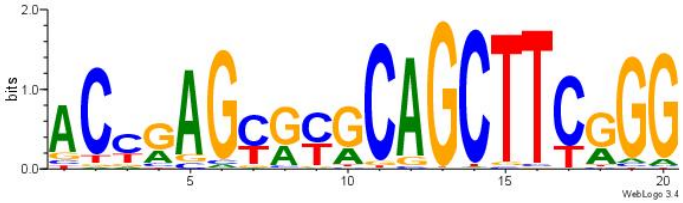

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0501241

Alignment:

```
GGTCAGGATCATCAATAT
----CATCTTCA------
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

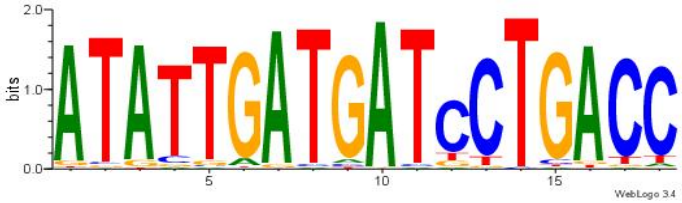

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

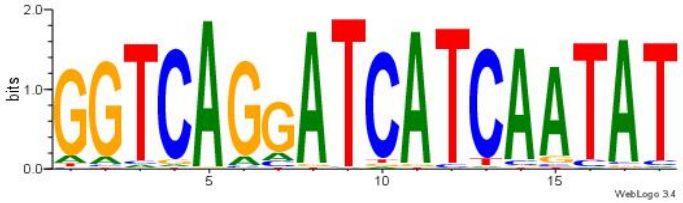

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10

Number of overlap: 8
Similarity score: 0.0520103

Alignment:
ACTGTCTTCCACCTCCACAT
---------CATCTTCA---

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

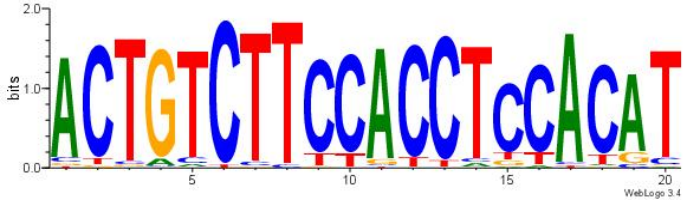

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

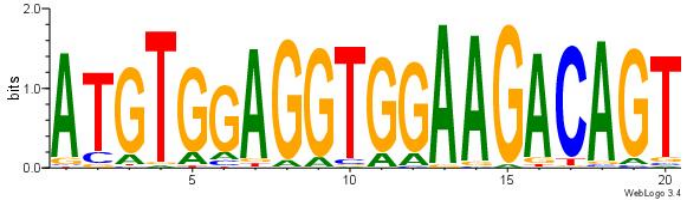

Dataset #: 1
Motif ID: 81
Motif name: Motif 81
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 8
Similarity score: 0.0537028

Alignment:
ATTTTACAGATG
----TGAAGATG

Original motif Consensus sequence: CATCTGTAAAAT

Reverse complement motif Consensus sequence: ATTTTACAGATG

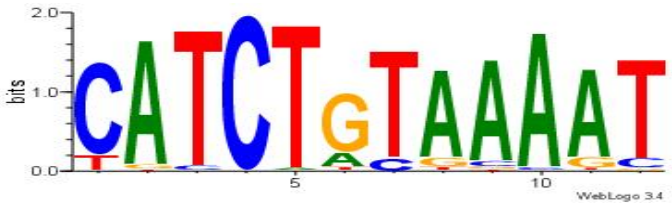

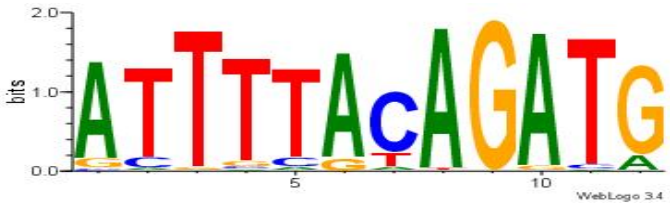

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0547819

Alignment:

```
AGCTGTGAGAAGAGGGCCAC
-----TGAAGATG-------
```

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

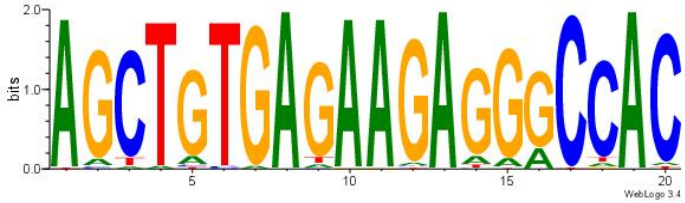

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

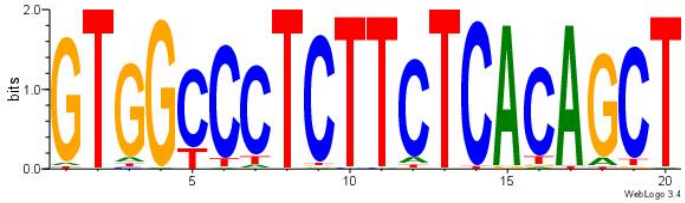

Dataset #: 1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	8
Similarity score:	0.0548679

Alignment:

```
CGGCTTCATTCTTGAAGTC
-----------CATCTTCA
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

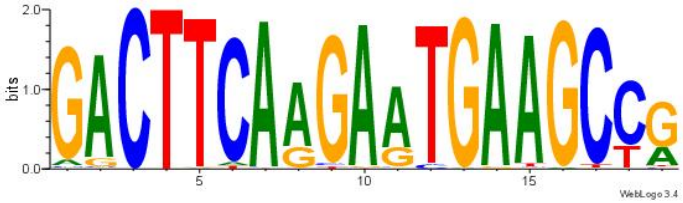

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

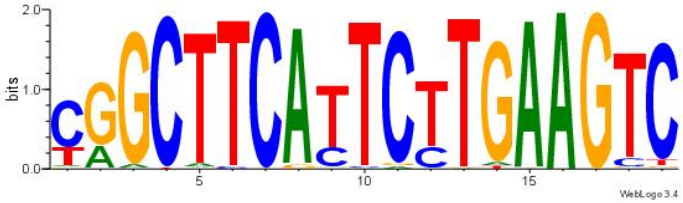

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	8

Similarity score: 0.0550381

Alignment:
AAATCTTAAAGCTC
-CATCTTCA-----

Original motif Consensus sequence: AAATCTTAAAGCTC

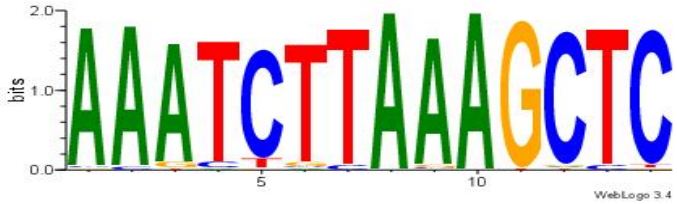

Reverse complement motif Consensus sequence: GAGCTTTAAGATTT

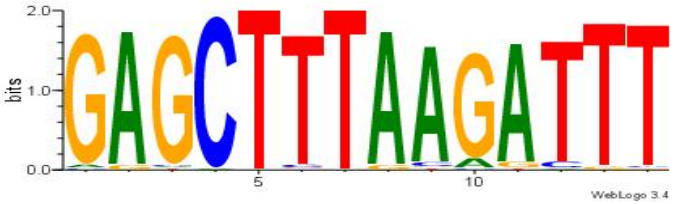

Dataset #: 1
Motif ID: 36
Motif name: Motif 36
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 8
Number of overlap: 8
Similarity score: 0.0551185

Alignment:
ACATCCCAGACGATGGGCG
----TGAAGATG-------

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

Reverse complement motif Consensus sequence: CGCCCATCGTCTGGGATGT

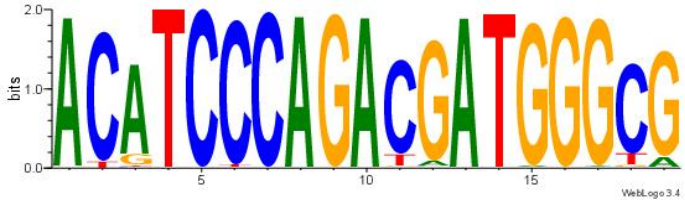

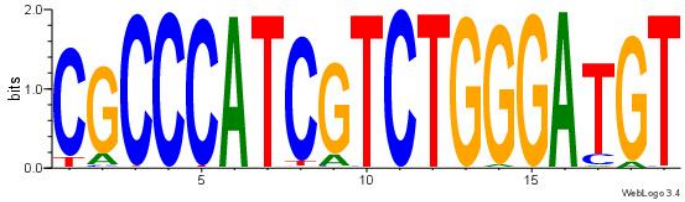

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0557164

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----CATCTTCA-------
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

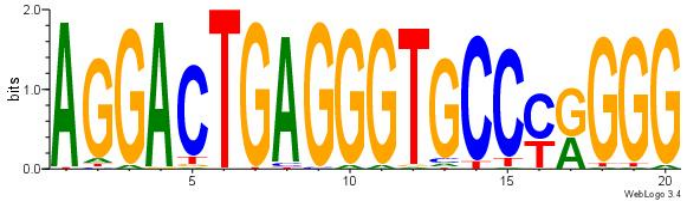

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

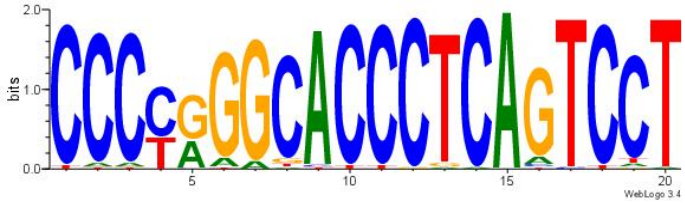

Dataset #:	1

Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0572159

Alignment:

```
GACTGGCAGGCAGCTCCACC
----------CATCTTCA--
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

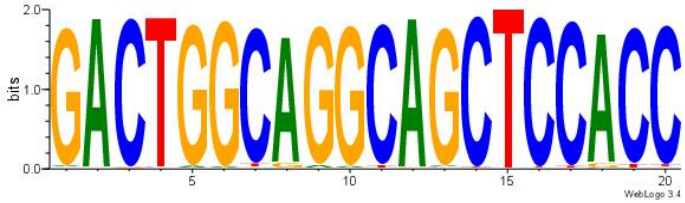

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

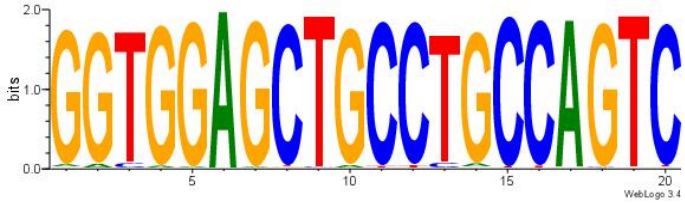

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8

Similarity score: 0.0580399

Alignment:
TGTGAAGAGACCACCAA
-------TGAAGATG--

Original motif Consensus sequence: TGTGAAGAGACCACCAA

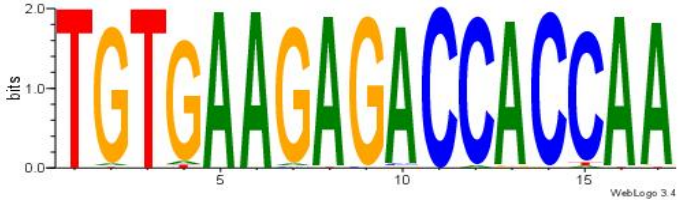

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

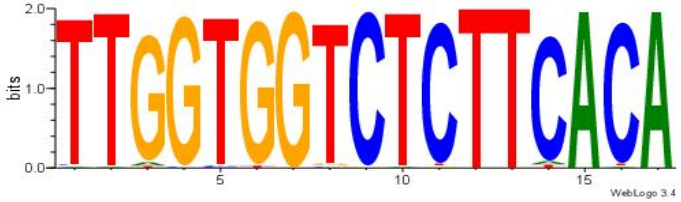

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 8
Similarity score: 0.0583664

Alignment:
CTCATTTAATCCTCACAAC
-------CATCTTCA----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

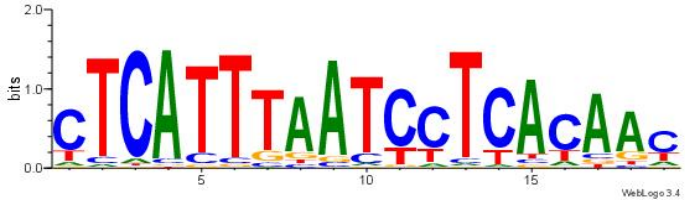

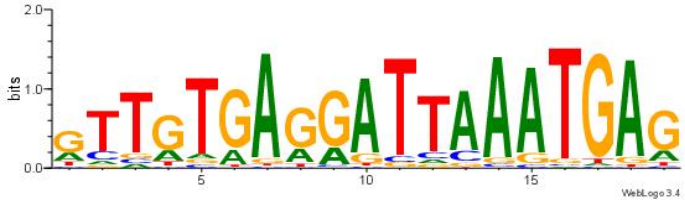

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0588399

Alignment:

```
CATCTGGAGCCCCA
CATCTTCA------
```

Original motif Consensus sequence: CATCTGGAGCCCCA

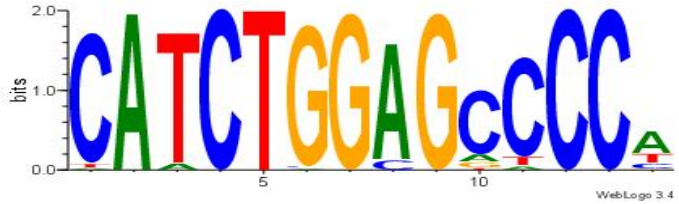

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

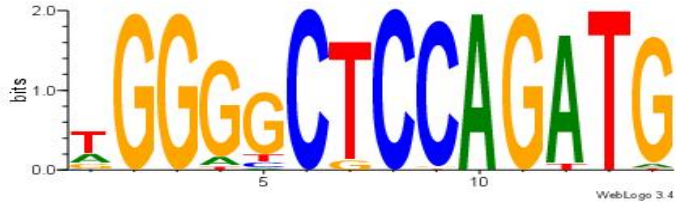

Dataset #:	1
Motif ID:	344

Motif name:	Motif 344
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0596458

Alignment:

```
CATAGGAGATGAC
--TGAAGATG---
```

Original motif Consensus sequence: CATAGGAGATGAC

Reverse complement motif Consensus sequence: GTCATCTCCTATG

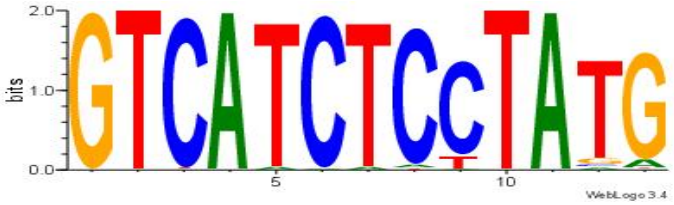

Dataset #:	1
Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	8
Similarity score:	0.0596642

Alignment:
CATTTCCAWCTGAGGTAC
CATCTTCA----------

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

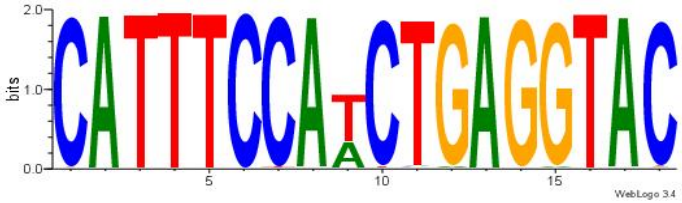

Reverse complement motif Consensus sequence:
GTACCTCAGWTGGAAATG

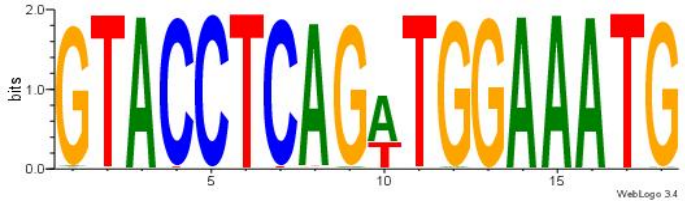

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0608041

Alignment:
CTCCAGKTMCATCCATGTTG
---------CATCTTCA---

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

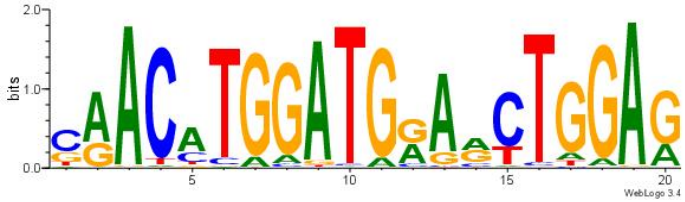

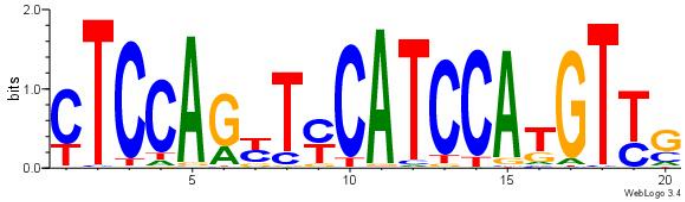

Dataset #:	1
Motif ID:	226
Motif name:	Motif 226
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0611705

Alignment:

```
CCATGTTTATT
--CATCTTCA-
```

Original motif Consensus sequence: AATAAACATGG

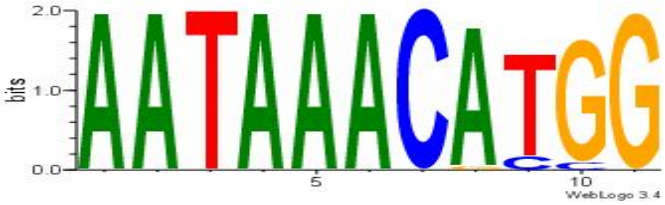

Reverse complement motif Consensus sequence: CCATGTTTATT

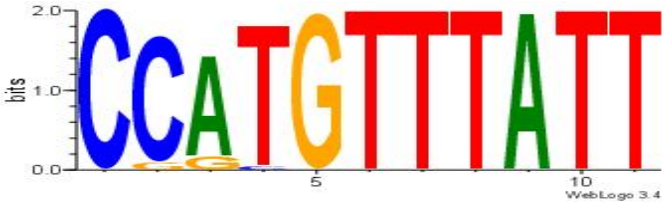

Dataset #:	1
Motif ID:	322

Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0633572

Alignment:

```
AGGGCCTTTGCASWTGC
-TGAAGATG--------
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

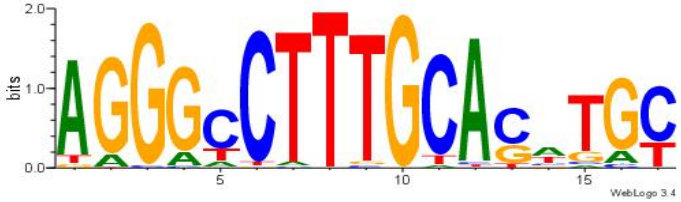

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

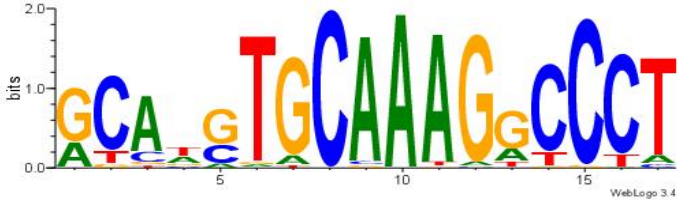

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	8
Similarity score:	0.0645881

Alignment:
AAAMAMMKMATGTTCTCACT
----CATCTTCA--------

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

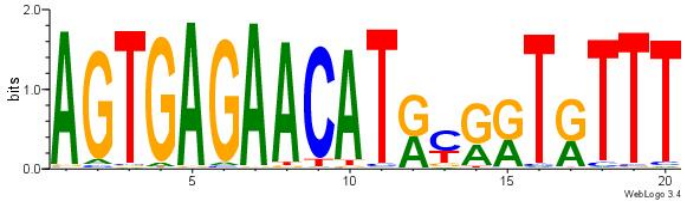

Reverse complement motif Consensus sequence:
AAAMAMMKMATGTTCTCACT

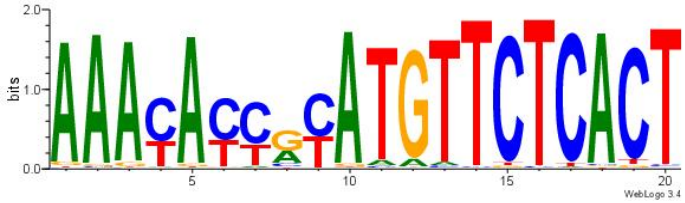

Dataset #:	1
Motif ID:	49
Motif name:	Motif 49
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0659528

Alignment:
ACATCTGYMMCC
-CATCTTCA---

Original motif Consensus sequence: ACATCTGYMMCC

Reverse complement motif Consensus sequence: GGRRMCAGATGT

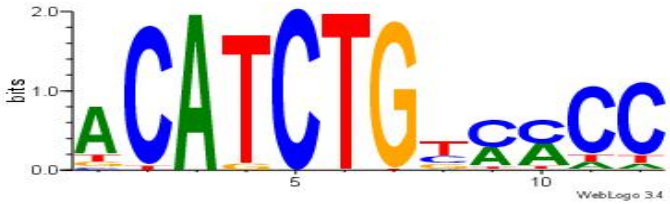

Dataset #:	1
Motif ID:	70
Motif name:	Motif 70
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0660012

Alignment:

```
CTATTGTGAATARTGCTGC
-----TGAAGATG------
```

Original motif Consensus sequence: CTATTGTGAATARTGCTGC

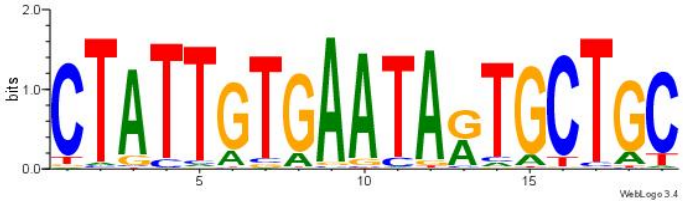

Reverse complement motif Consensus sequence: GCAGCAMTATTCACAATAG

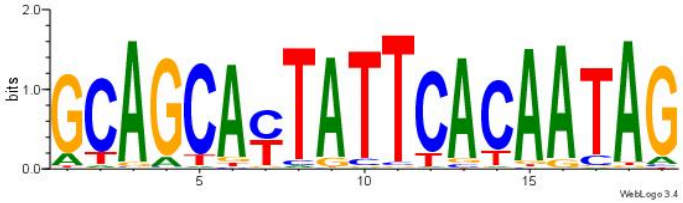

Dataset #: 1

Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0668508

Alignment:

```
AGGAACAGCTCCRGTCTAC
-----CATCTTCA------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

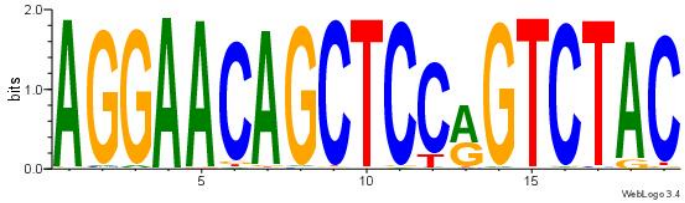

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

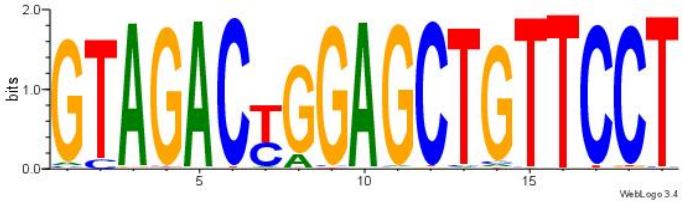

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8

Similarity score: 0.0690835

Alignment:
GGACCTTCAGAGC
-CATCTTCA----

Original motif Consensus sequence: GCTCTGAAGGTCC

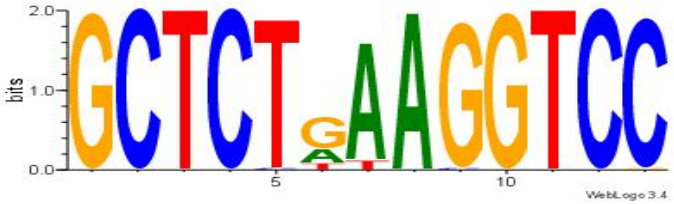

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

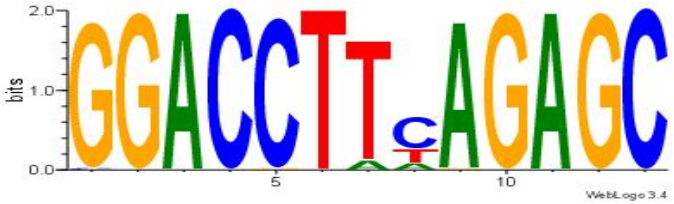

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	8
Similarity score:	0.0692651

Alignment:
GCCGGGRAGAGGCGCTCCT
----TGAAGATG-------

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

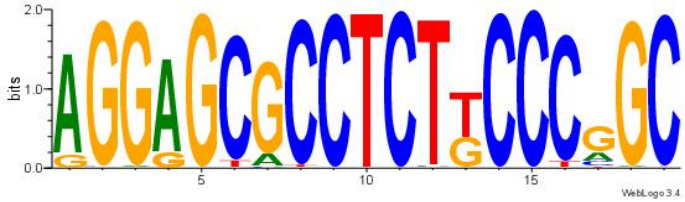

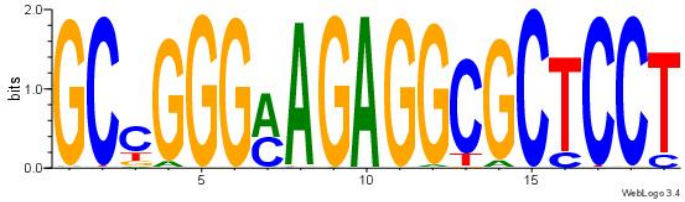

Dataset #:	1
Motif ID:	339
Motif name:	Motif 339
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
GCAGGAGGTGAG
--TGAAGATG--
```

Original motif Consensus sequence: CTCACCTCCTGC

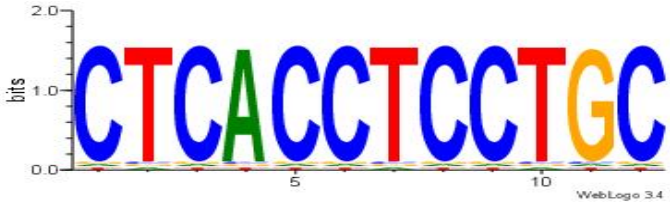

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

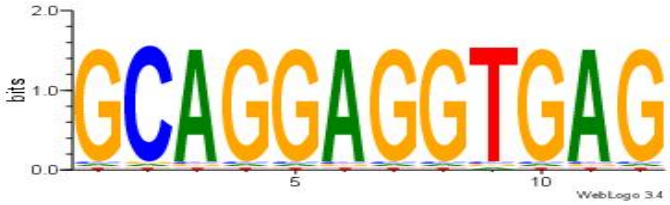

Dataset #:	1
Motif ID:	73

Motif name:	Motif 73
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
CAAACTGCAAG
-CATCTTCA--
```

Original motif Consensus sequence: CAAACTGCAAG

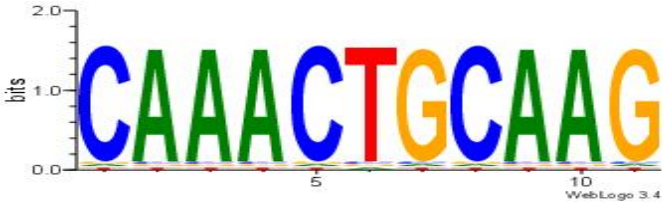

Reverse complement motif Consensus sequence: CTTGCAGTTTG

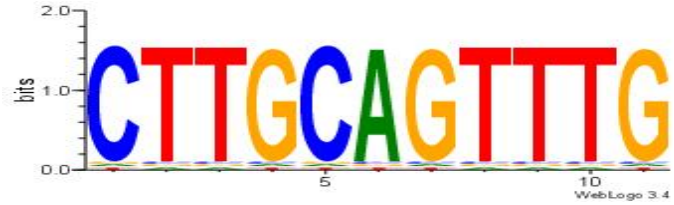

Dataset #:	1
Motif ID:	334
Motif name:	Motif 334
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
GTGACAGATG
--TGAAGATG

Original motif Consensus sequence: CATCTGTCAC

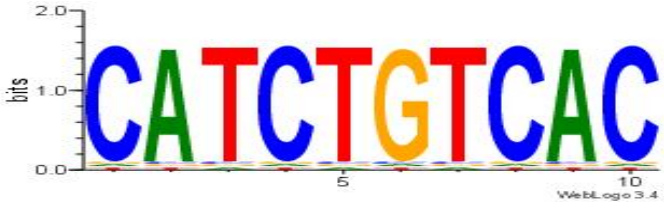

Reverse complement motif Consensus sequence: GTGACAGATG

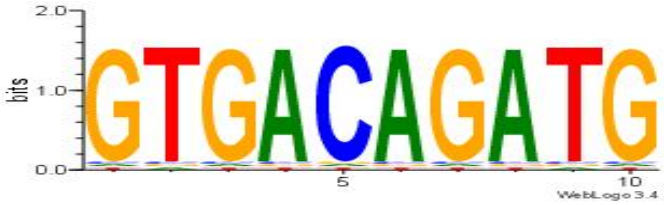

Dataset #:	1
Motif ID:	134
Motif name:	Motif 134
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
CAAACTGCA
-CATCTTCA

Original motif Consensus sequence: CAAACTGCA

Reverse complement motif Consensus sequence: TGCAGTTTG

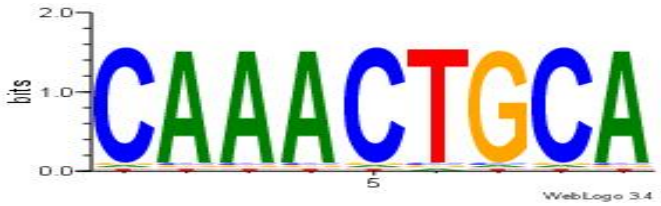

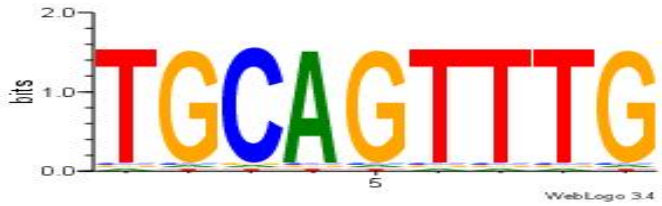

Dataset #:	1
Motif ID:	207
Motif name:	Motif 207
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
TCAAGGTC
TGAAGATG
```

Original motif Consensus sequence: GACCTTGA

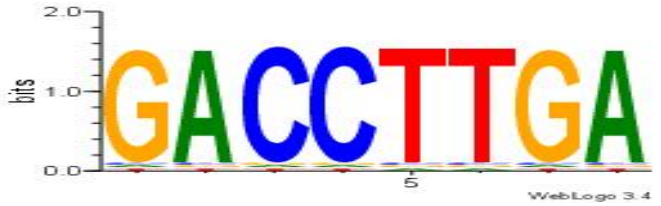

Reverse complement motif Consensus sequence: TCAAGGTC

Dataset #:	1
Motif ID:	324

Motif name:	Motif 324
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	8
Similarity score:	0.0733328

Alignment:

```
TACAGGTGCGT
TGAAGATG---
```

Original motif Consensus sequence: ACGCACCTGTA

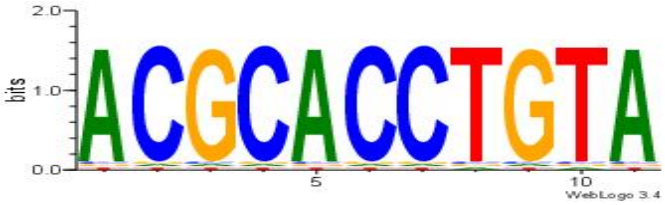

Reverse complement motif Consensus sequence: TACAGGTGCGT

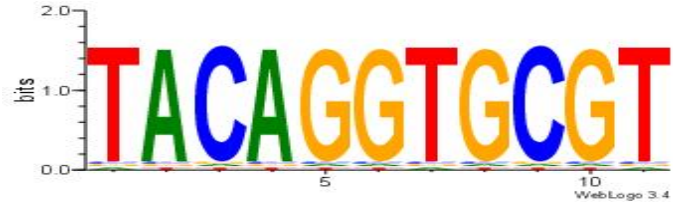

Dataset #:	1
Motif ID:	342
Motif name:	Motif 342
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
GCCTATTAAAC
-CATCTTCA--

Original motif Consensus sequence: GCCTATTAAAC

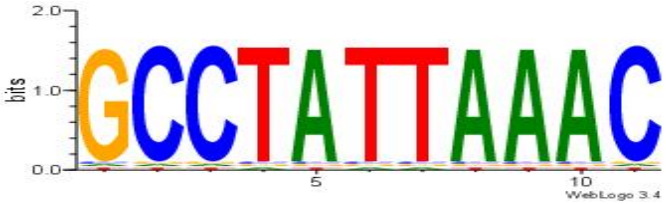

Reverse complement motif Consensus sequence: GTTTAATAGGC

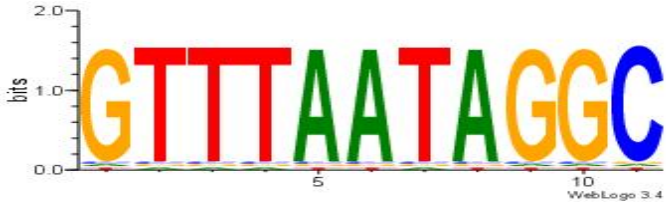

Dataset #:	1
Motif ID:	335
Motif name:	Motif 335
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	8
Similarity score:	0.0733328

Alignment:
TCAGCATTAAC
--CATCTTCA-

Original motif Consensus sequence: GTTAATGCTGA

Reverse complement motif Consensus sequence: TCAGCATTAAC

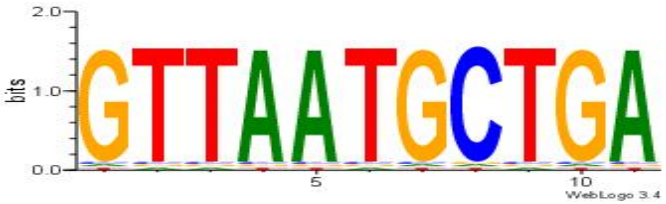

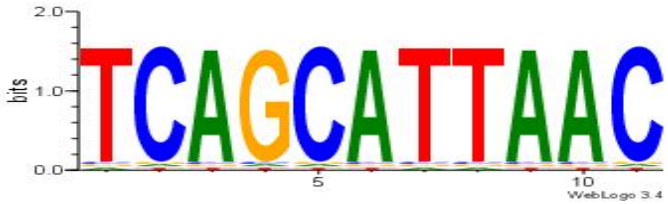

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	8
Similarity score:	0.0757143

Alignment:

```
ACTCAGCCCRCCTGCACCC
--------CATCTTCA---
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

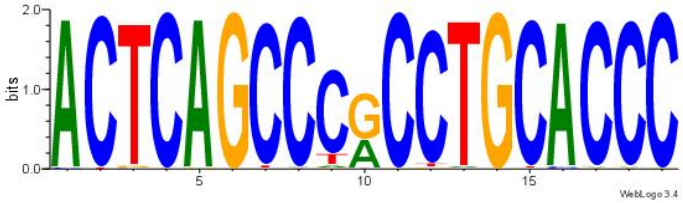

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

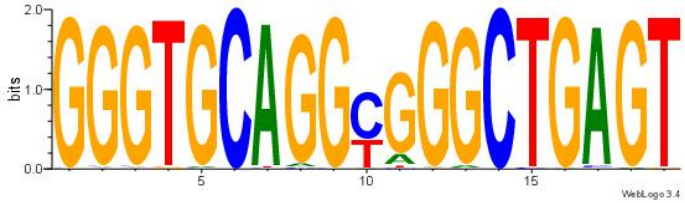

Dataset #:	1

Motif ID:	75
Motif name:	Motif 75
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0765785

Alignment:

```
CATGGAGCGGKK
--TGAAGATG--
```

Original motif Consensus sequence: CATGGAGCGGKK

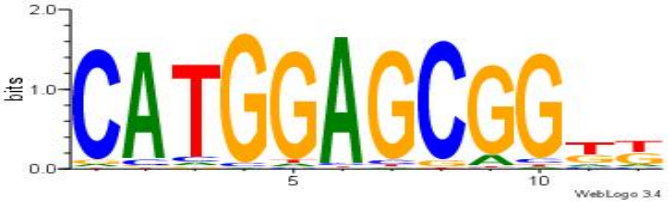

Reverse complement motif Consensus sequence: RRCCGCTCCATG

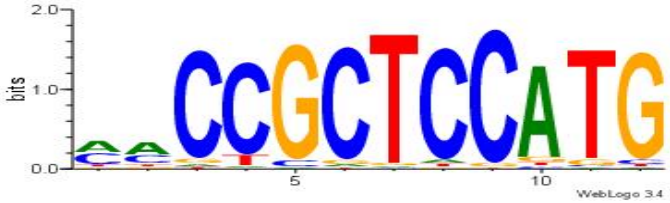

Dataset #:	1
Motif ID:	185
Motif name:	Motif 185
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	8
Similarity score:	0.0767071

Alignment:
GAAGATGAMG
TGAAGATG--

Original motif Consensus sequence: GAAGATGAMG

Reverse complement motif Consensus sequence: CYTCATCTTC

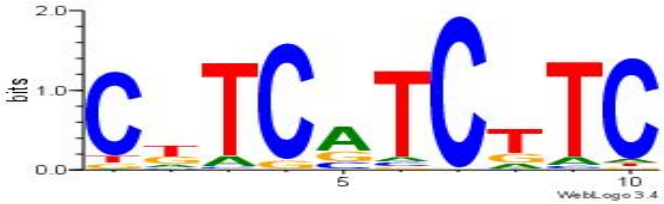

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	8
Similarity score:	0.076778

Alignment:
KKCACCTTGATCTTGGACTT
----------CATCTTCA--

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

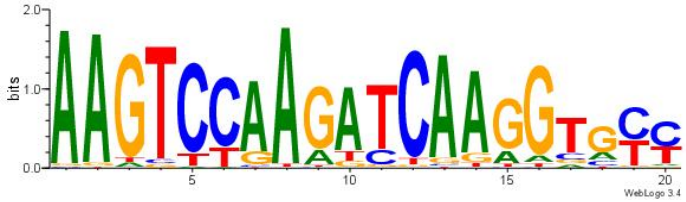

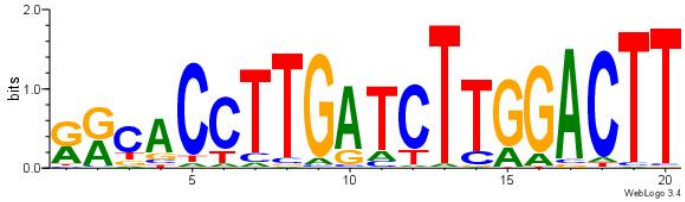

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	8
Similarity score:	0.0768003

Alignment:

```
GCCCTCACCATCC
-----CATCTTCA
```

Original motif Consensus sequence: GCCCTCACCATCC

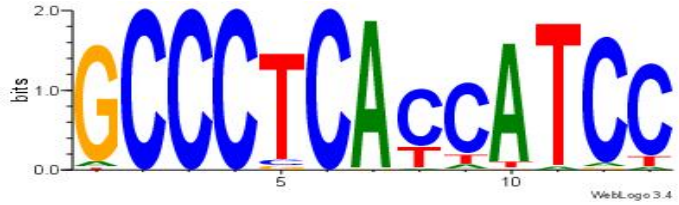

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

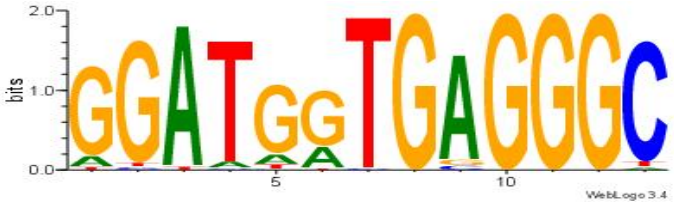

Dataset #:	1
Motif ID:	26

Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0768183

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
---------TGAAGATG---
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

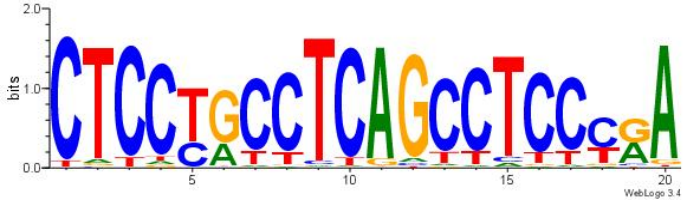

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

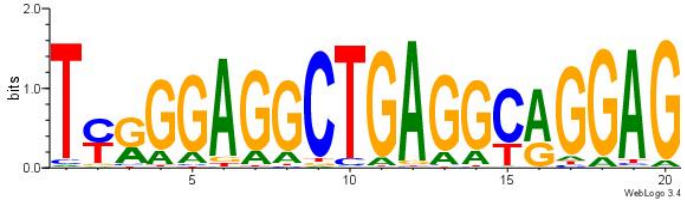

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	8
Similarity score:	0.0775304

Alignment:
ACACATCACAAAGCAGTTTC
---CATCTTCA---------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

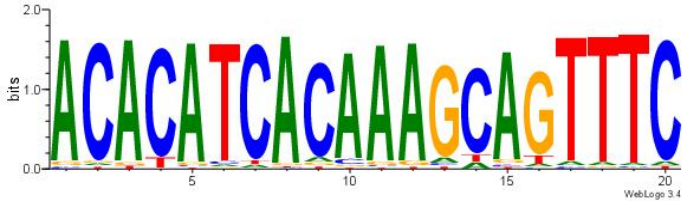

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

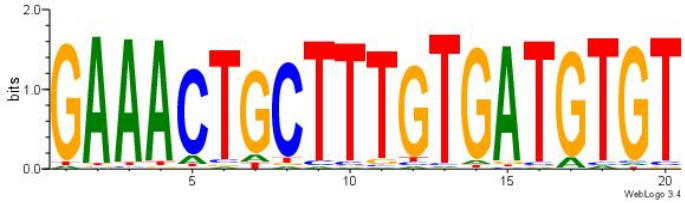

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	8
Similarity score:	0.0782934

Alignment:
CGTCGCTCACGCTGGGAGCT
------TGAAGATG------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence:
CGTCGCTCACGCTGGGAGCT

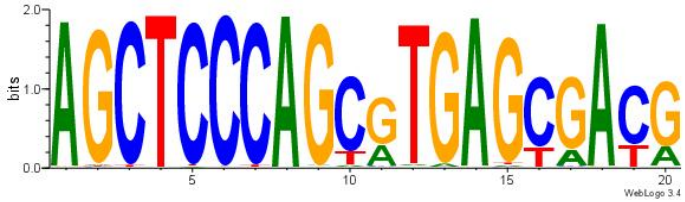

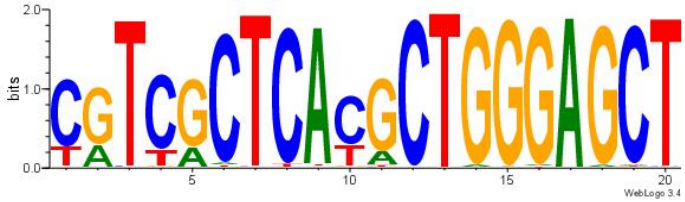

Dataset #:	1
Motif ID:	208
Motif name:	Motif 208
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	8
Similarity score:	0.0785969

Alignment:

```
ATCGCCCTCAC
-CATCTTCA--
```

Original motif Consensus sequence: GTGAGGGCGAT

Reverse complement motif Consensus sequence: ATCGCCCTCAC

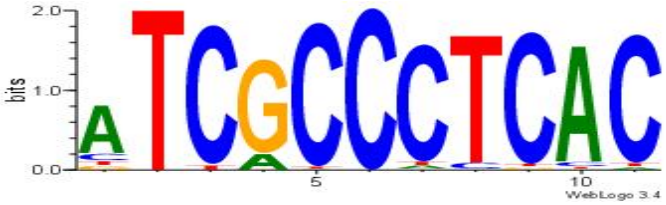

Dataset #:	1
Motif ID:	179

Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	8
Similarity score:	0.0787281

Alignment:

```
AGGTCCTTCAGGAGGTATTC
-----TGAAGATG-------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

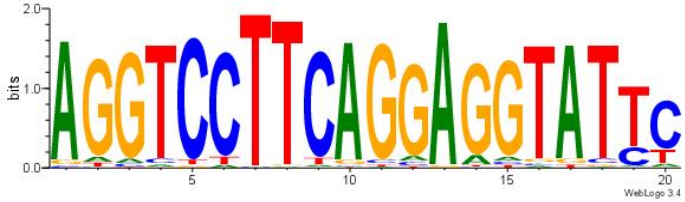

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

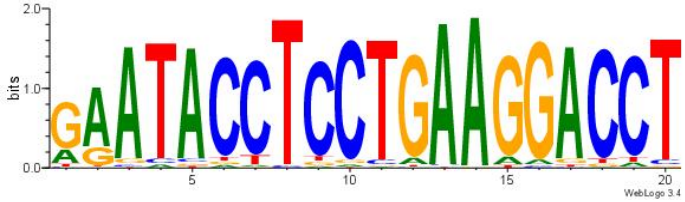

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	8
Similarity score:	0.0790784

Alignment:
AATCAACCCTGGYRATCAAT
---TGAAGATG---------

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

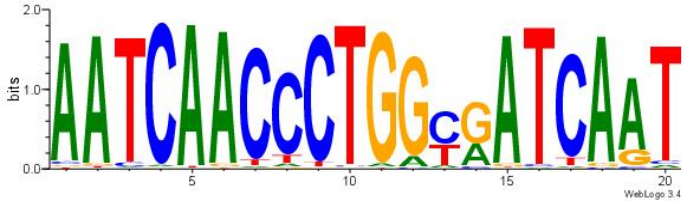

Reverse complement motif Consensus sequence:
ATTGATMKCCAGGGTTGATT

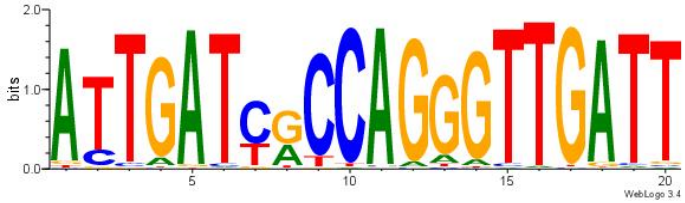

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	8
Similarity score:	0.0790866

Alignment:
ATTGGTGTATTTACAATCCC
-------CATCTTCA-----

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

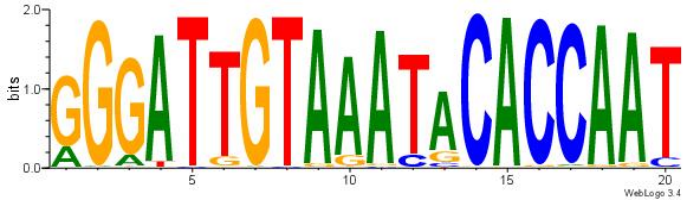

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	8
Similarity score:	0.0791992

Alignment:

```
CCCTGCTAGAACCTCCAA
---------CATCTTCA-
```

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

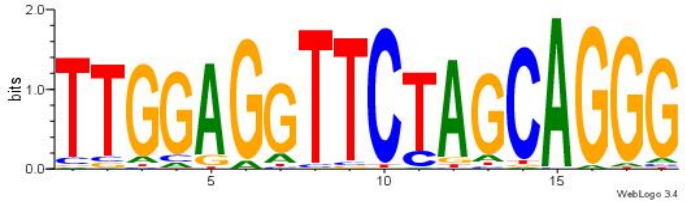

Dataset #: 1 Motif ID: 353 Motif name: Motif 353

Original motif Consensus sequence: CACATGGAAGC

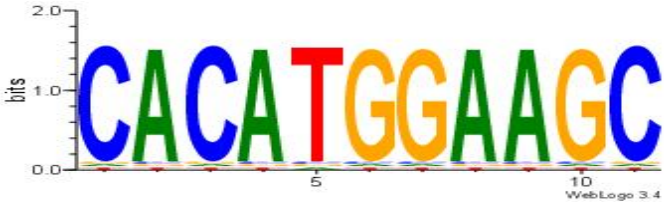

Reverse complement motif Consensus sequence: GCTTCCATGTG

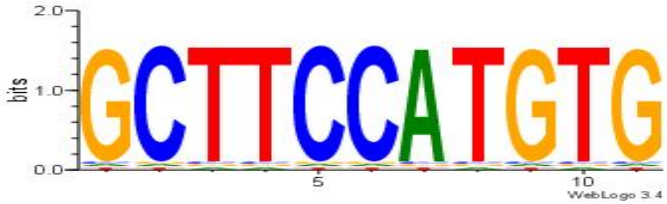

Best Matches for Motif ID 353 (Highest to Lowest)

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0523615

Alignment:

```
AAGTTCTKGGKTACATGTGC
--------GCTTCCATGTG-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

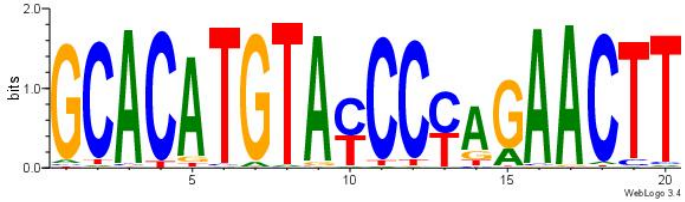

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

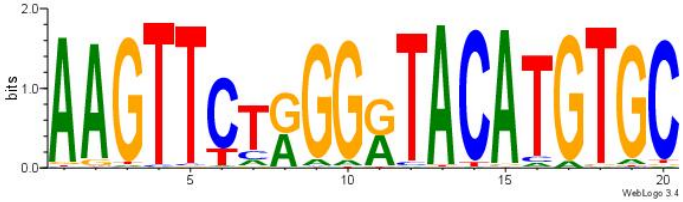

Dataset #:	1
Motif ID:	104
Motif name:	Motif 104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0616894

Alignment:

```
CTCCAGKTMCATCCATGTTG
--------GCTTCCATGTG-
```

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

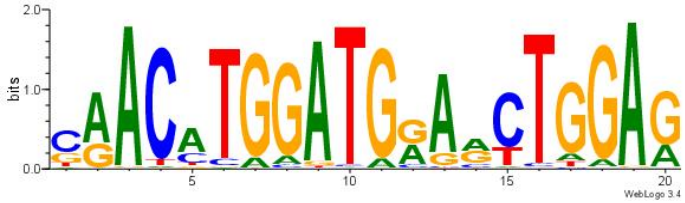

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

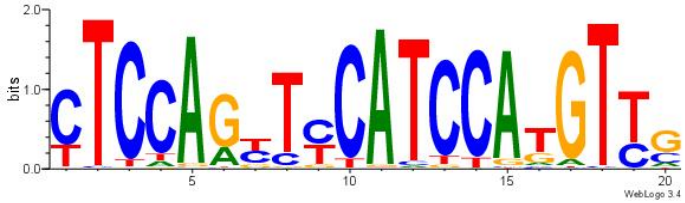

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8

Number of overlap: 11
Similarity score: 0.0617739

Alignment:
TCCAAATGGGAGAAATTGGC
--CACATGGAAGC-------

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

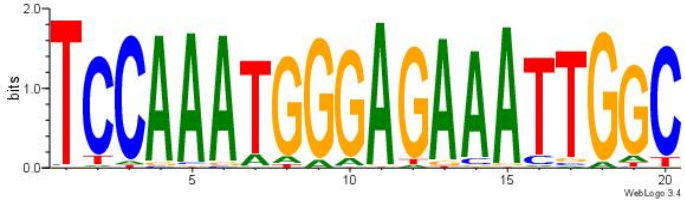

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

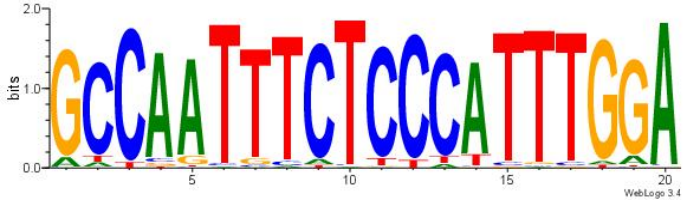

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0618096

Alignment:
GGATTTMKGACTTGCATGGG
---------GCTTCCATGTG

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

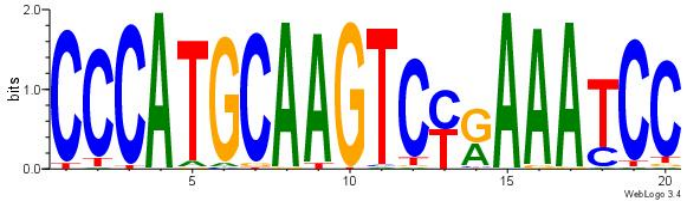

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

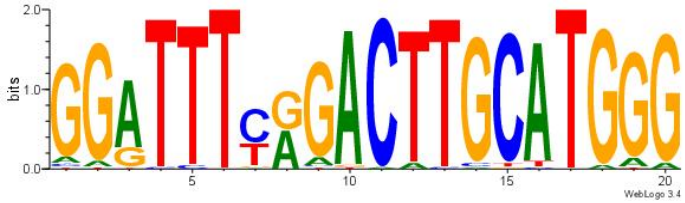

Dataset #:	1
Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0627655

Alignment:

```
GACATGGAGTCAAAGG
CACATGGAAGC-----
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

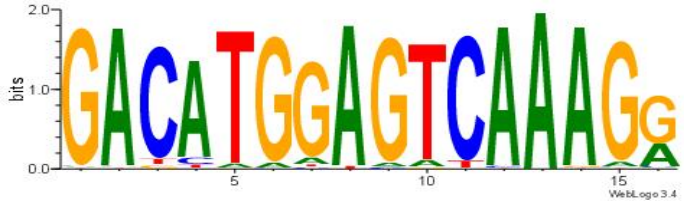

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

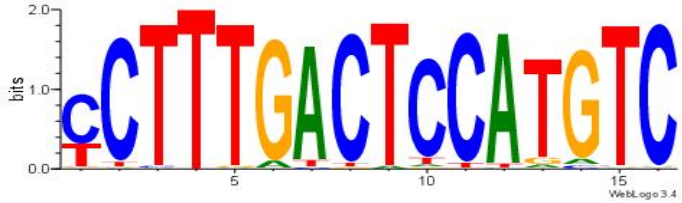

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0651571

Alignment:

```
CCACCACAGCTCAAGGAGGC
---------CACATGGAAGC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

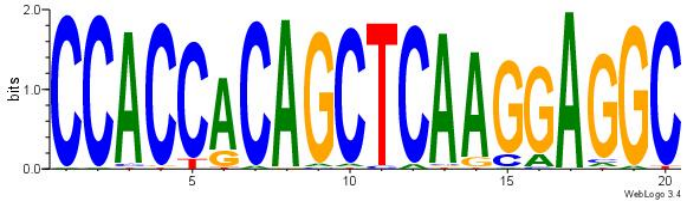

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

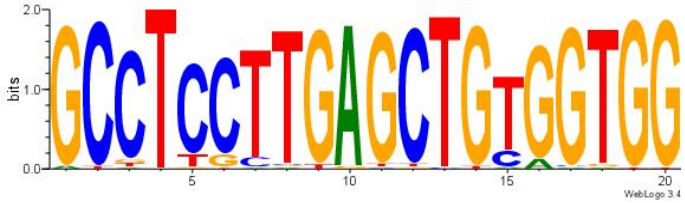

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 11
Similarity score: 0.0656819

Alignment:
CCGCTGCACTGTGGGAGCCC
-------GCTTCCATGTG--

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

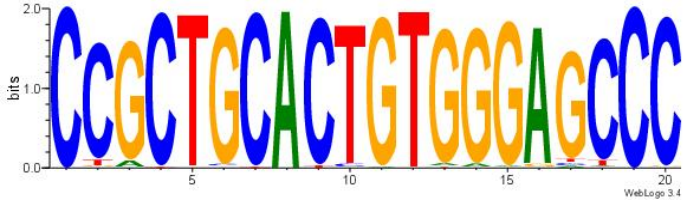

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

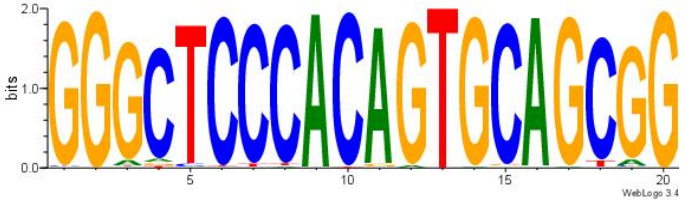

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 11
Similarity score: 0.0657801

Alignment:
TGGGCTGCCAGATG
---GCTTCCATGTG

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

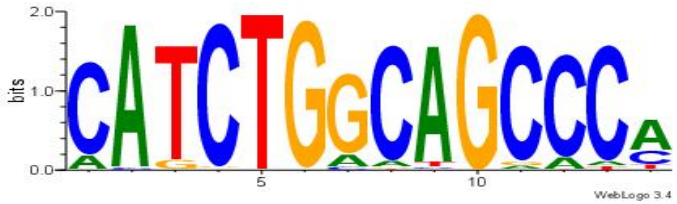

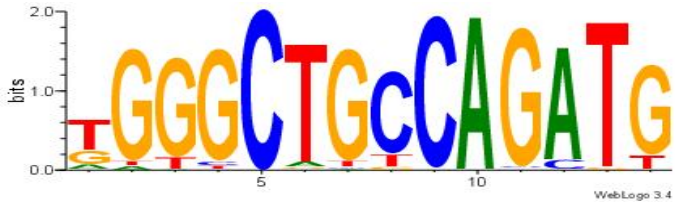

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0671037

Alignment:

```
CATTTGGGAGCCCATTGA
CACATGGAAGC-------
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

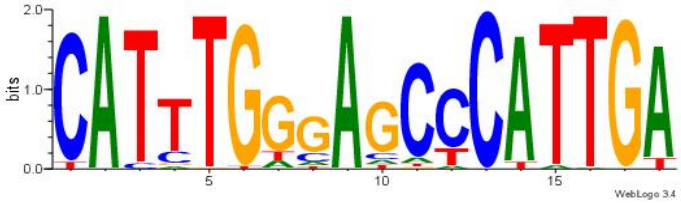

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

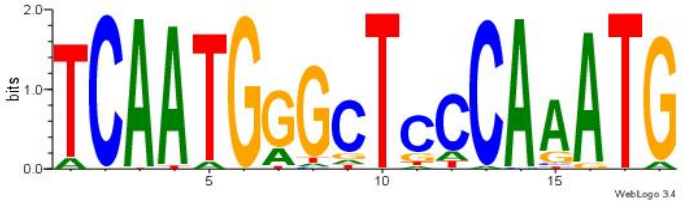

Dataset #: 1

Motif ID:	25
Motif name:	Motif 25
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0732369

Alignment:

```
GTACCTCAGWTGGAAATG
-CACATGGAAGC------
```

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

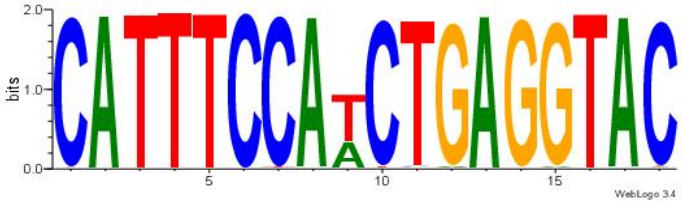

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

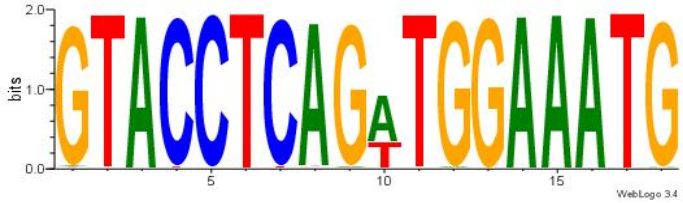

Dataset #:	1
Motif ID:	206
Motif name:	Motif 206
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0781223

Alignment:
GGRCKCACWGGAGC
CACATGGAAGC---

Original motif Consensus sequence: GCTCCWGTGYGKCC

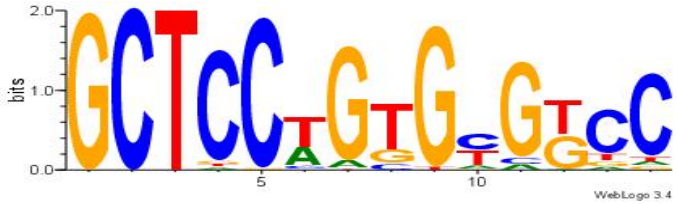

Reverse complement motif Consensus sequence: GGRCKCACWGGA

Dataset #: 1
Motif ID: 202
Motif name: Motif 202
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 11
Similarity score: 0.0799402

Alignment:
ACACATCACAAAGCAGTTTC
------CACATGGAAGC---

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

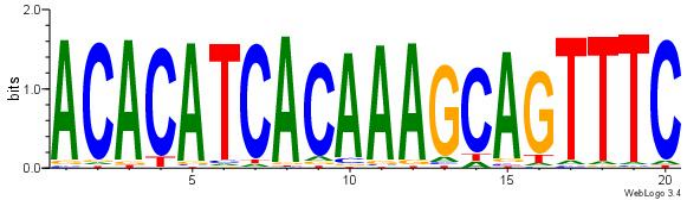

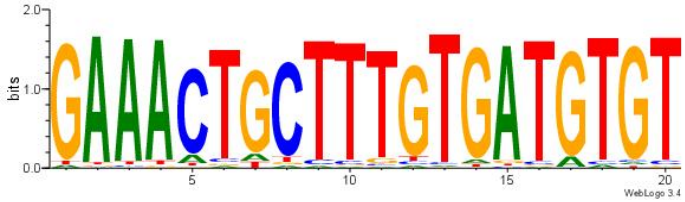

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.080419

Alignment:

```
TAAGTGGGAGCTAARC
CACATGGAAGC-----
```

Original motif Consensus sequence: TAAGTGGGAGCTAARC

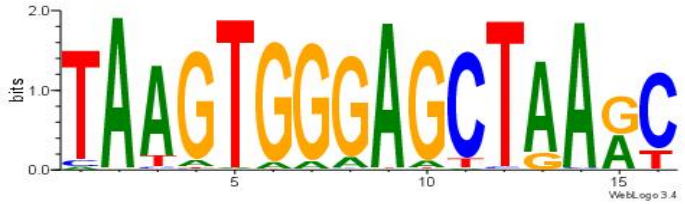

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

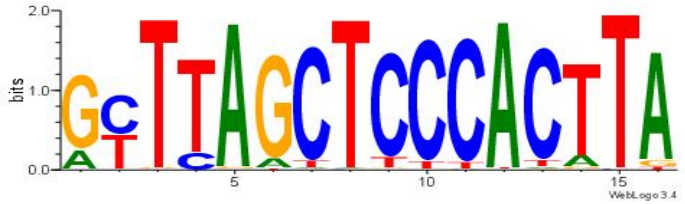

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0811512

Alignment:

```
ACCKTCGCGGTGAGTGTTAC
-GCTTCCATGTG--------
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

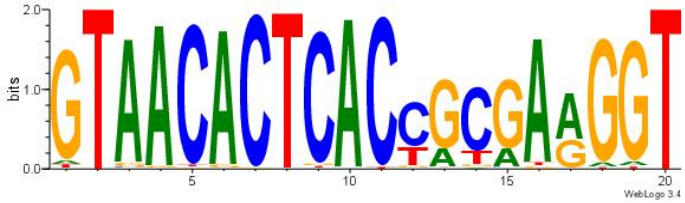

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

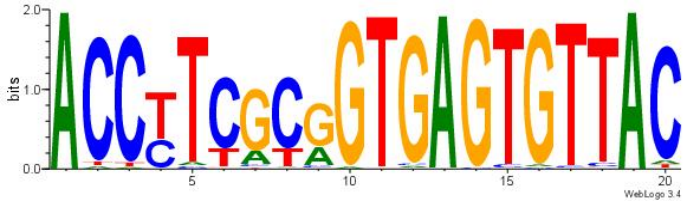

Dataset #:	1
Motif ID:	199
Motif name:	Motif 199
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0814252

Alignment:
ACAGCTGGCACC
-CACATGGAAGC

Original motif Consensus sequence: ACAGCTGGCACC

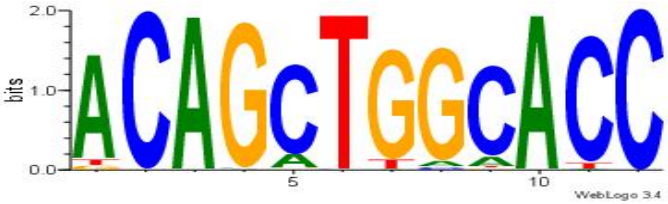

Reverse complement motif Consensus sequence: GGTGCCAGCTGT

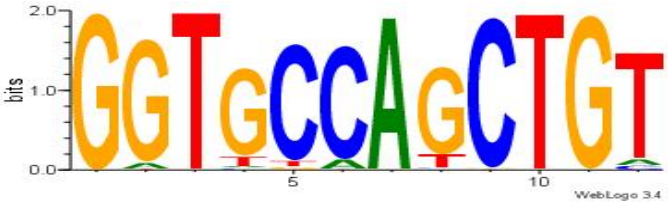

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0814347

Alignment:
AAGACCTTCCAGTGGGACAA
-----GCTTCCATGTG----

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

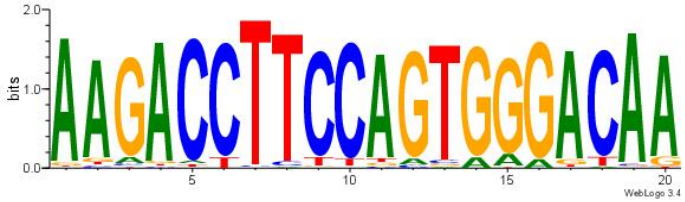

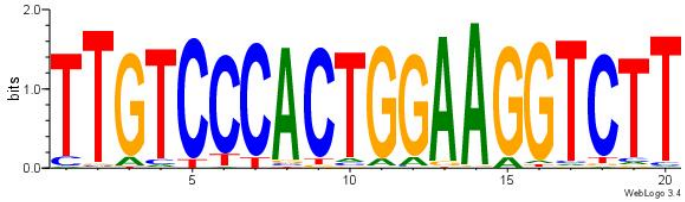

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0816622

Alignment:

```
AWTKKTGGTTKCCAGKGGCT
-------GCTTCCATGTG--
```

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

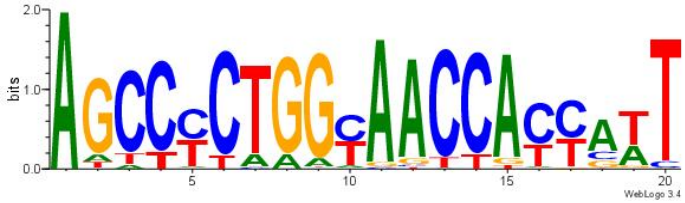

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

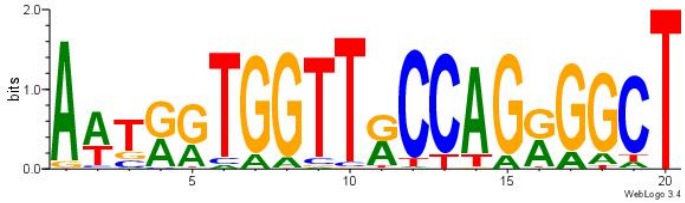

Dataset #:	1

Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0816827

Alignment:

```
ATGTGGAGGTGGAAGACAGT
----CACATGGAAGC-----
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

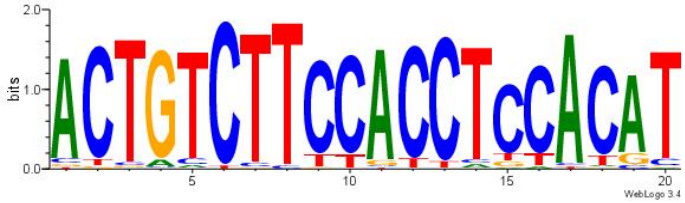

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

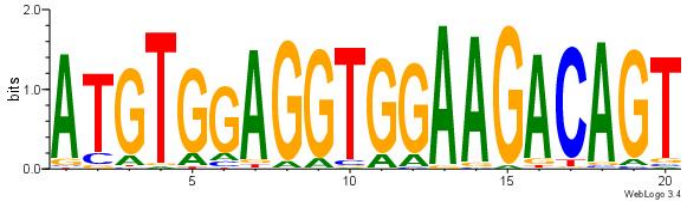

Dataset #:	1
Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0827741

Alignment:
CCCACGCCCACCCGGAACT
CACATGGAAGC--------

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

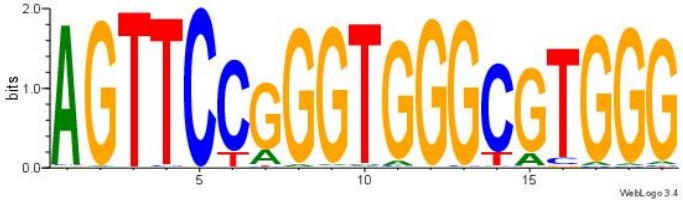

Reverse complement motif Consensus sequence:
CCCACGCCCACCCGGAACT

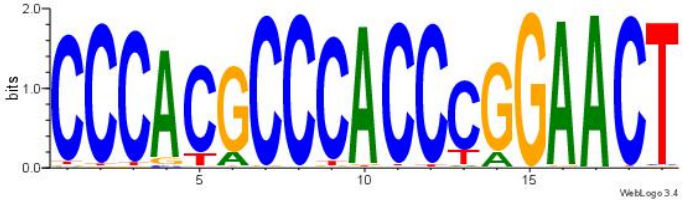

Dataset #:	1
Motif ID:	33
Motif name:	Motif 33
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0831758

Alignment:
ACGCCCACGGAGTCTC
---CACATGGAAGC--

Original motif Consensus sequence: ACGCCCACGGAGTCTC

Reverse complement motif Consensus sequence:
GAGACTCCGTGGGCGT

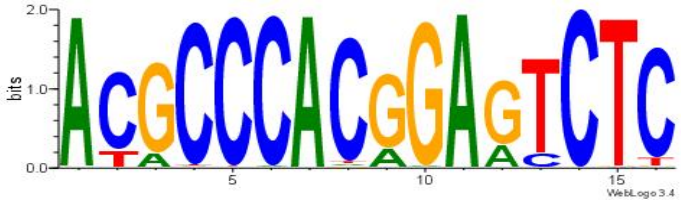

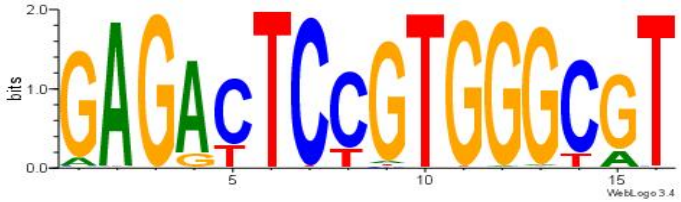

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0835828

Alignment:

```
CTGTTTGCCTGGGTATCA
--GCTTCCATGTG-----
```

Original motif Consensus sequence: TGATACCCAGGCAAACAG

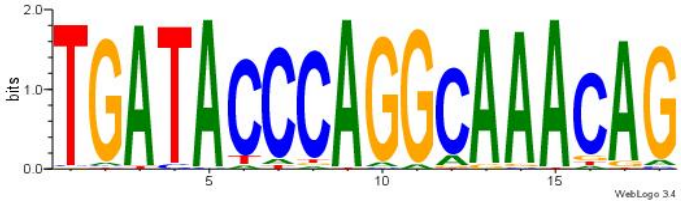

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

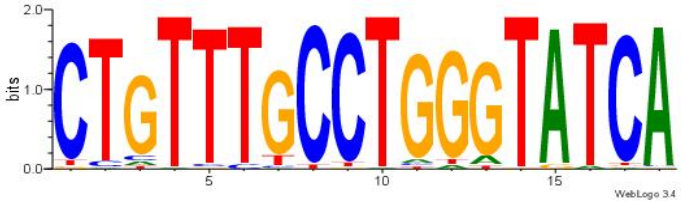

Dataset #: 1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0840384

Alignment:

```
GCTCTCAATTGGTCATT
GCTTCCATGTG------
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

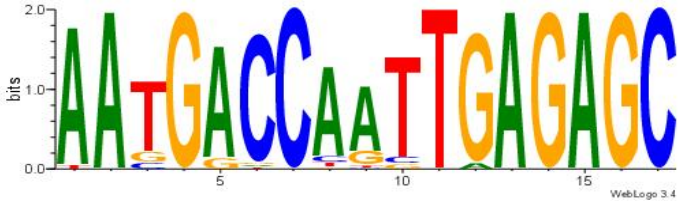

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

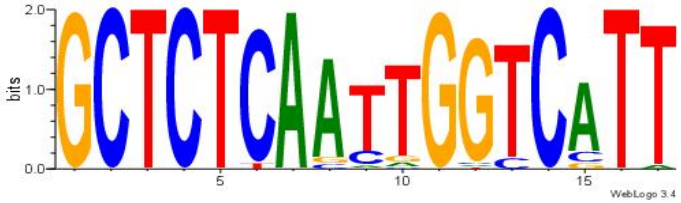

Dataset #:	1
Motif ID:	132
Motif name:	Motif 132
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11

Similarity score: 0.084587

Alignment:
GCCGCCATCTTG
GCTTCCATGTG-

Original motif Consensus sequence: CAAGATGGCGGC

Reverse complement motif Consensus sequence: GCCGCCATCTTG

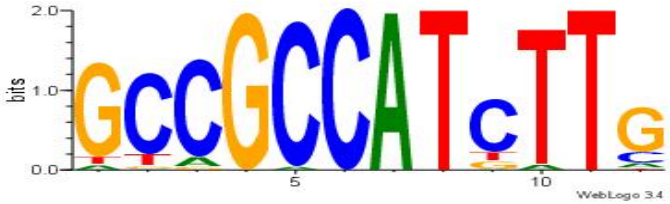

Dataset #: 1
Motif ID: 23
Motif name: Motif 23
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 10
Number of overlap: 11
Similarity score: 0.0847344

Alignment:
GGTTCATCTCACTAGGGAGT
---------CACATGGAAGC

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

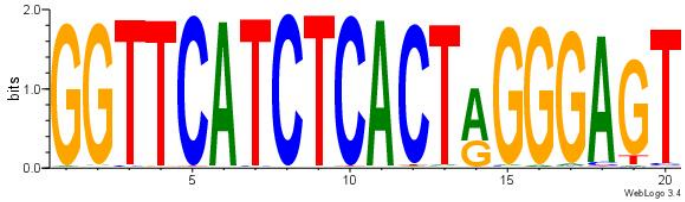

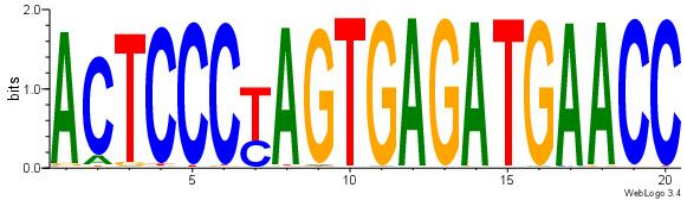

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0852138

Alignment:

```
TGGACCTGAGAGC
CACATGGAAGC--
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

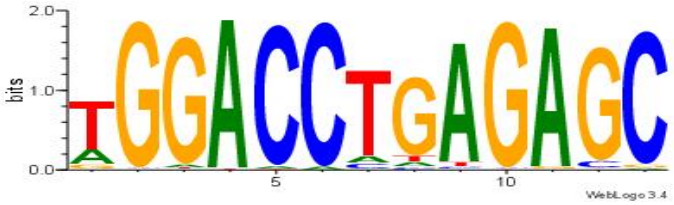

Dataset #:	1
Motif ID:	320

Motif name:	Motif 320
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.085703

Alignment:

```
TGGGGCTCCAGATG
---GCTTCCATGTG
```

Original motif Consensus sequence: CATCTGGAGCCCCA

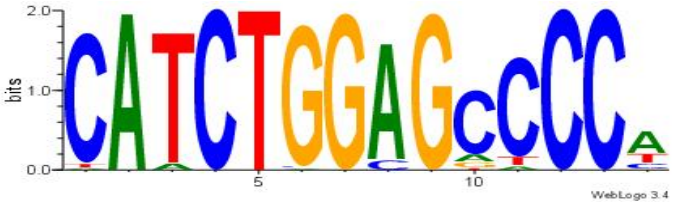

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

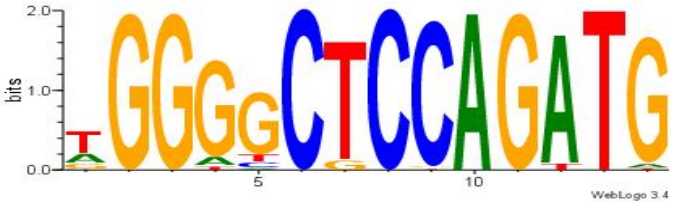

Dataset #:	1
Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.086725

Alignment:
AAAGTGCCGAGAKTGCAGC
--------CACATGGAAGC

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

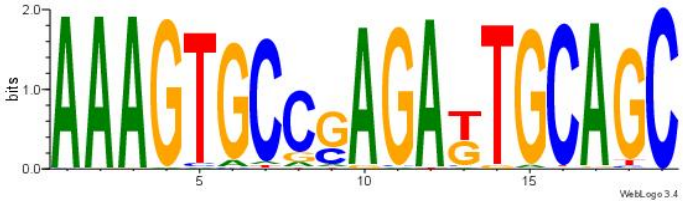

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

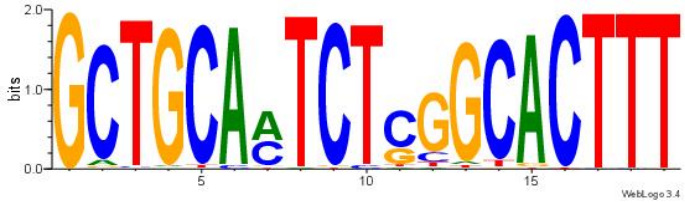

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	11
Similarity score:	0.0869647

Alignment:
AGGACTGAGGGTGCCYRGGG
GCTTCCATGTG---------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence:
CCCMKGGCACCCTCAGTCCT

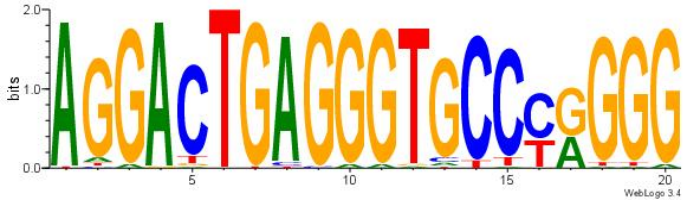

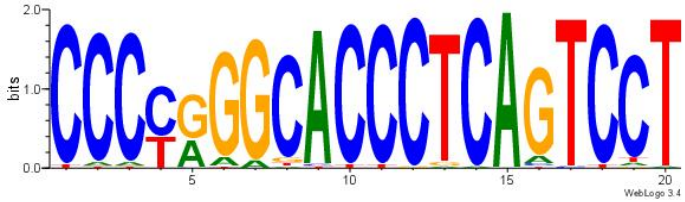

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0872637

Alignment:

```
CTACATGGACCTT
-CACATGGAAGC-
```

Original motif Consensus sequence: AAGGTCCATGTAG

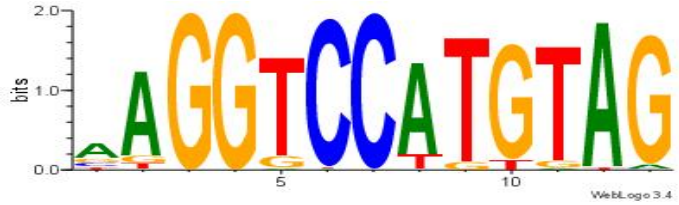

Reverse complement motif Consensus sequence: CTACATGGACCTT

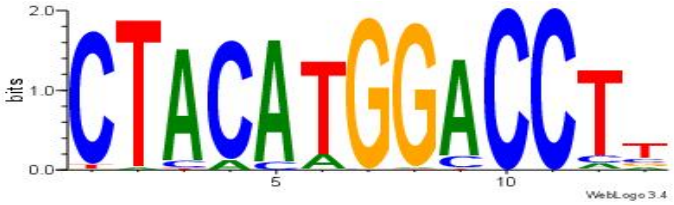

Dataset #:	1
Motif ID:	211

Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0879026

Alignment:

```
CGGCTTCATTCTTGAAGTC
--GCTTCCATGTG------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

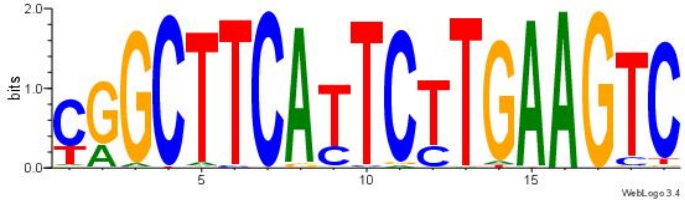

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.08887

Alignment:
GTTGTGAGGATTAAATGAG
--------GCTTCCATGTG

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

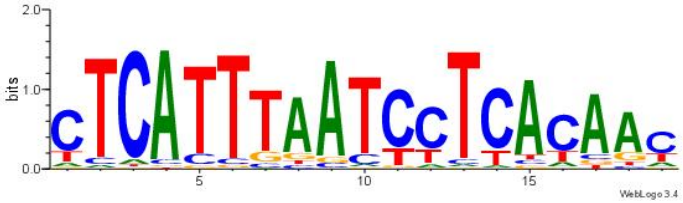

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

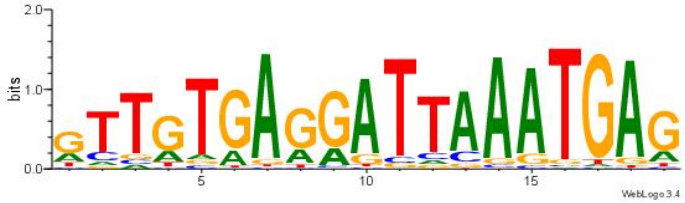

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0894306

Alignment:
CACTAGGGAGTGCC
CACATGGAAGC---

Original motif Consensus sequence: CACTAGGGAGTGCC

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

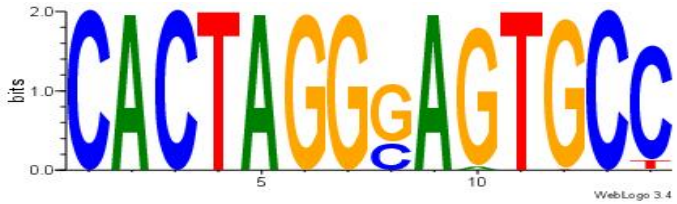

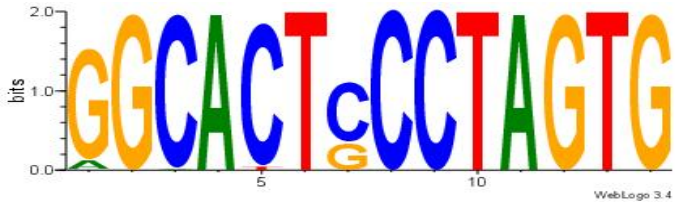

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0911728

Alignment:

```
AGTGTTTCCAAMCTGCT
---GCTTCCATGTG---
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

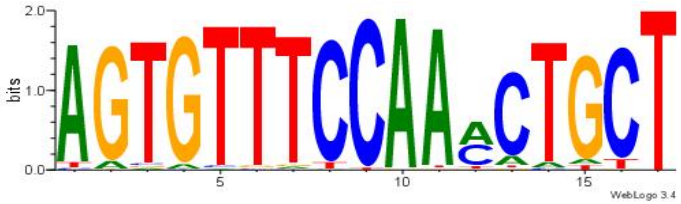

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

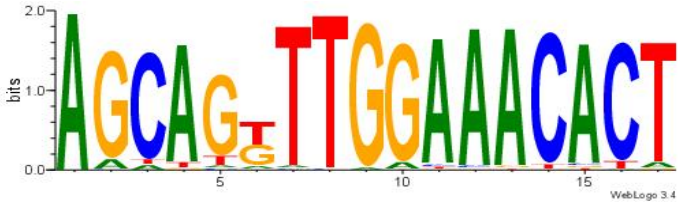

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	11
Similarity score:	0.0934123

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-------GCTTCCATGTG--
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

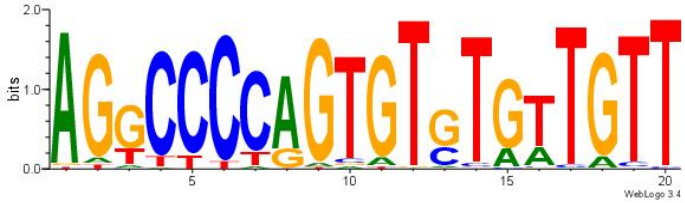

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

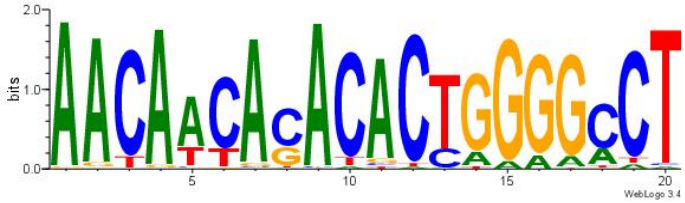

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11

Similarity score: 0.0947715

Alignment:
CAAGTTGACACATAAAATTA
--------CACATGGAAGC-

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

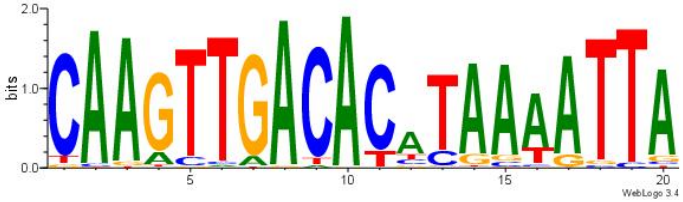

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

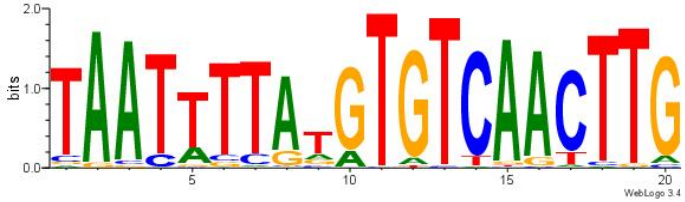

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 11
Similarity score: 0.0953352

Alignment:
CCTAGATTTCAGARGATGT
----GCTTCCATGTG----

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

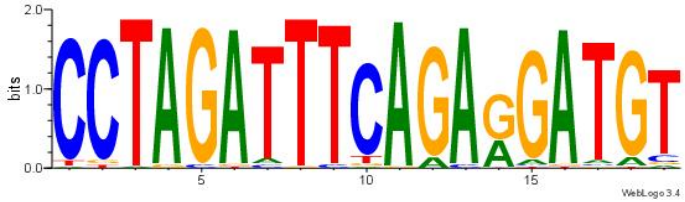

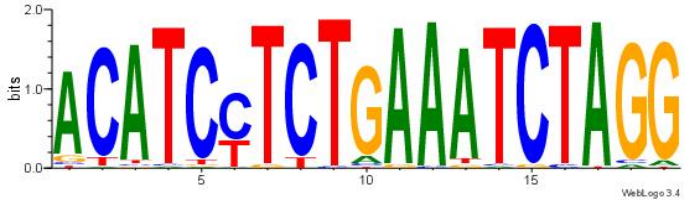

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0963353

Alignment:

```
AAAATCACAAGCATTCCTAT
-----CACATGGAAGC----
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

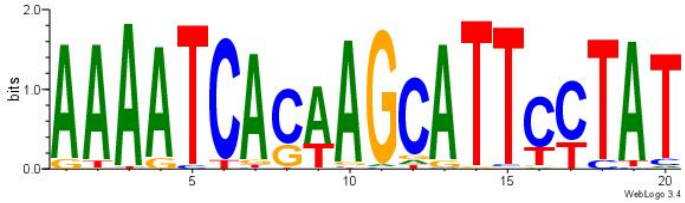

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

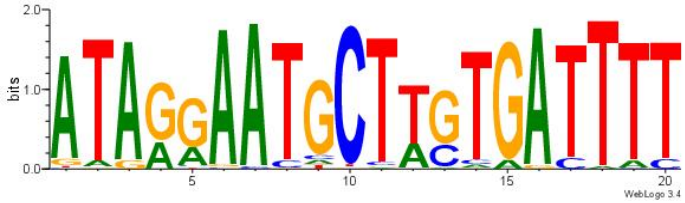

Dataset #:	1

Motif ID:	15
Motif name:	Motif 15
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0974426

Alignment:

```
CTTGCGCTTCCCRRGTGA
--GCTTCCATGTG-----
```

Original motif Consensus sequence: CTTGCGCTTCCCRRGTGA

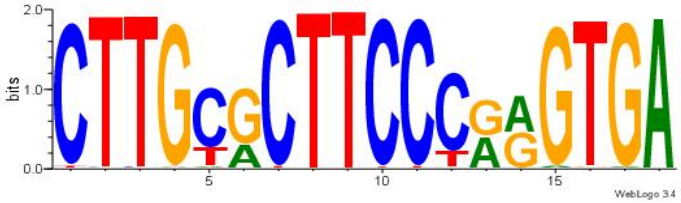

Reverse complement motif Consensus sequence: TCACKMGGGAAGCGCAAG

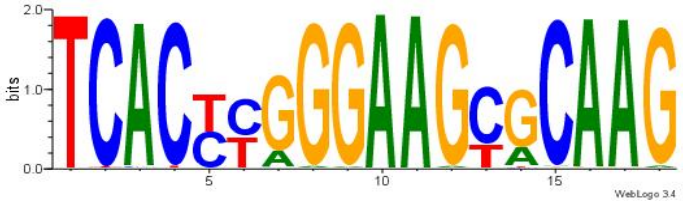

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	11

Similarity score: 0.0978843

Alignment:
CCCTGCTAGAACCTCCAA
--CACATGGAAGC-----

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

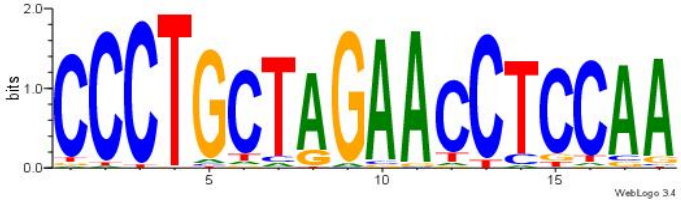

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

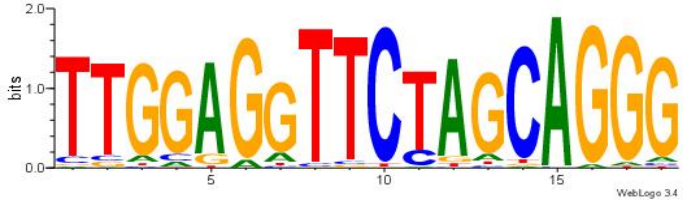

Dataset #: 1
Motif ID: 48
Motif name: Motif 48
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0986423

Alignment:
AGCTCCCAGCGTGAGCGACG
--------GCTTCCATGTG-

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

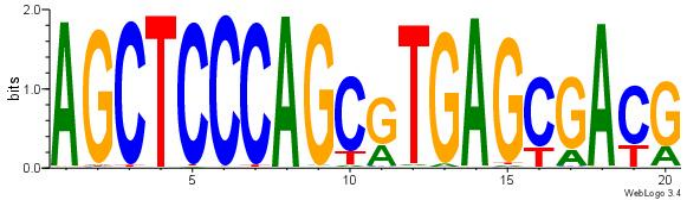

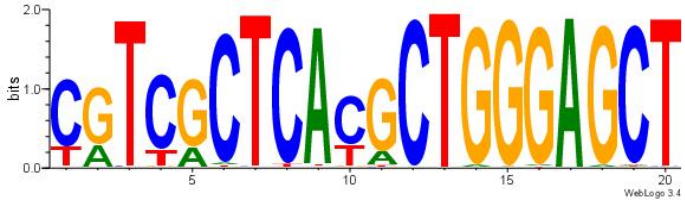

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11
Similarity score:	0.0990424

Alignment:

```
AGGAACAGCTCCRGTCTAC
-GCTTCCATGTG-------
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

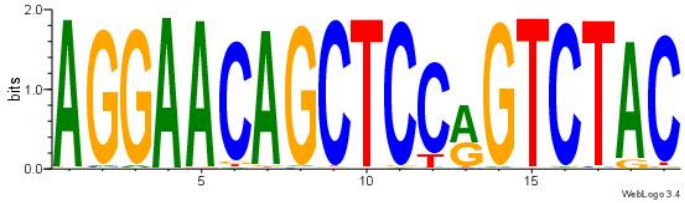

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

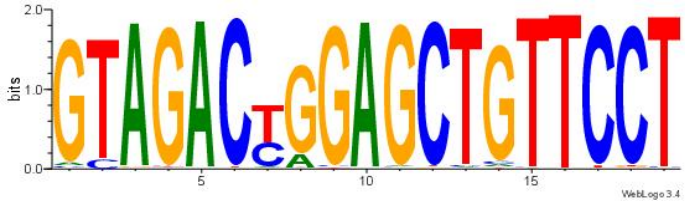

Dataset #: 1

Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0990528

Alignment:

```
GGGRSCACAGGAGCD
-CACATGGAAGC---
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

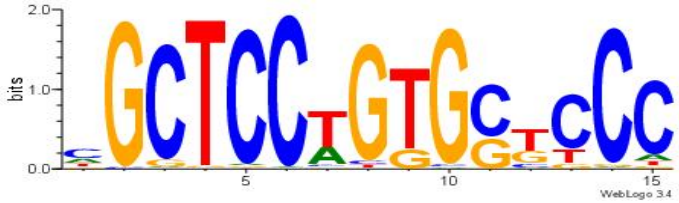

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11

Similarity score: 0.0990948

Alignment:
GGATCCACTGGGTGAAGCCA
---------GCTTCCATGTG

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

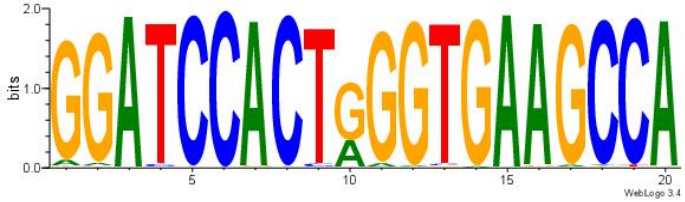

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

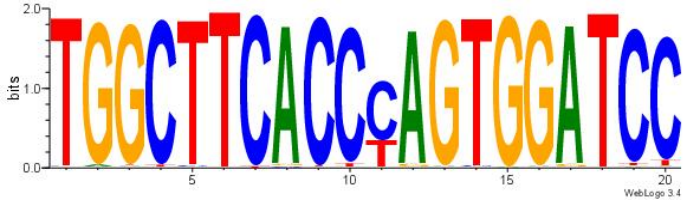

Dataset #: 1
Motif ID: 126
Motif name: Motif 126
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0991254

Alignment:
AYGCCTGTAATC
-CACATGGAAGC

Original motif Consensus sequence: AYGCCTGTAATC

Reverse complement motif Consensus sequence: GATTACAGGCMT

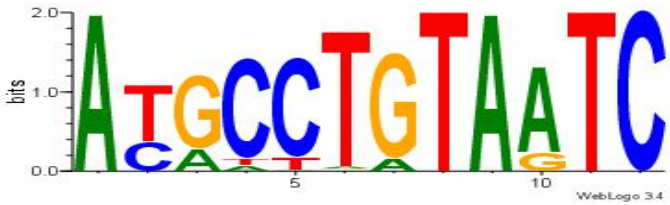

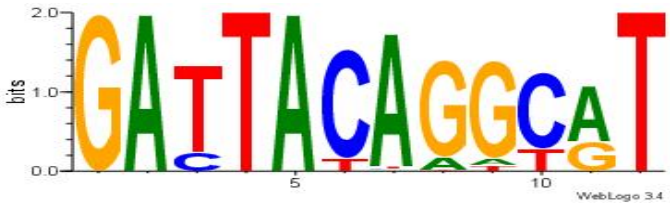

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0995422

Alignment:

```
ACTCAGCCCRCCTGCACCC
--------CACATGGAAGC
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

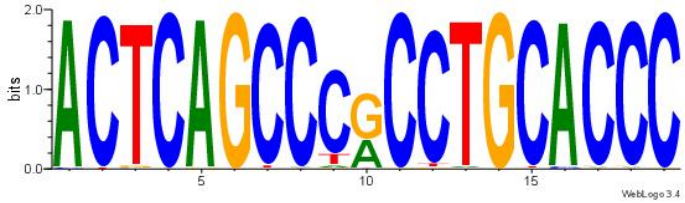

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

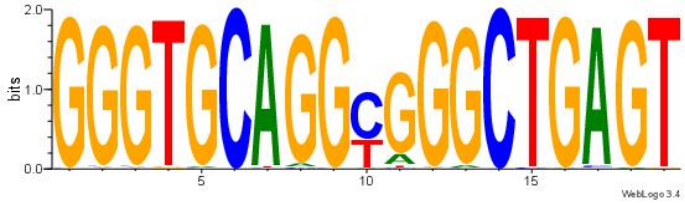

Dataset #:	1

Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	11
Similarity score:	0.0995719

Alignment:

```
GCCKCCCCGTCCGGGAGGGA
GCTTCCATGTG---------
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

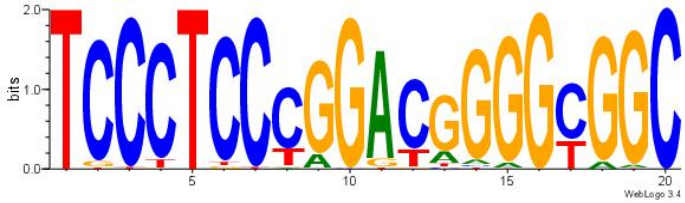

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

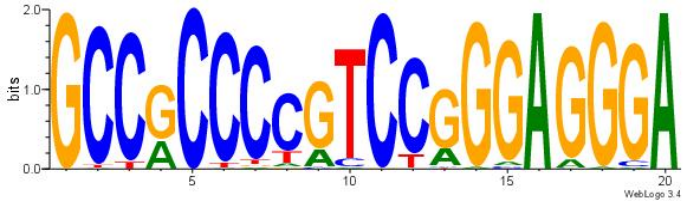

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0997246

Alignment:
CTGACTGGGAGACACCTCCC
--CACATGGAAGC-------

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

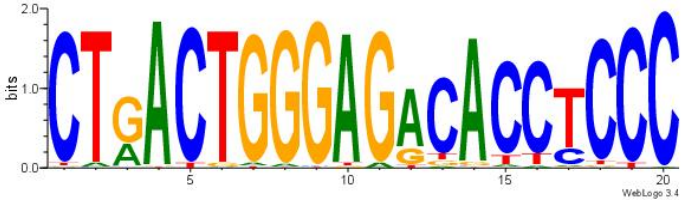

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

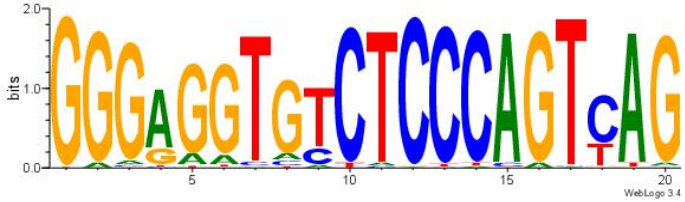

Dataset #: 1
Motif ID: 136
Motif name: Motif 136
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 11
Similarity score: 0.0997611

Alignment:
CCCTCACTGCCCGGGG
GCTTCCATGTG-----

Original motif Consensus sequence: CCCTCACTGCCCGGGG

Reverse complement motif Consensus sequence: CCCCGGGCAGTGAGGG

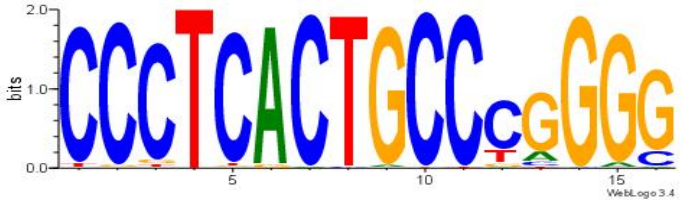

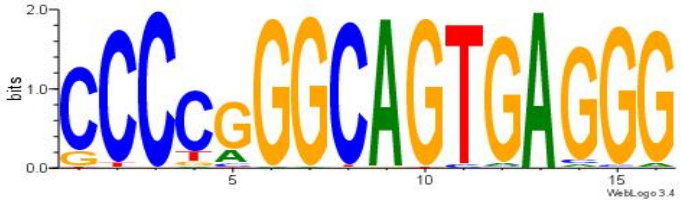

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0998063

Alignment:

```
TWTACCTATGTAACAAACCT
-----CACATGGAAGC----
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

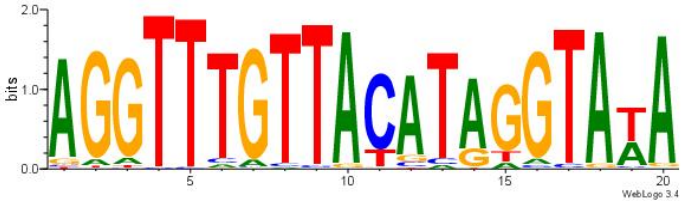

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

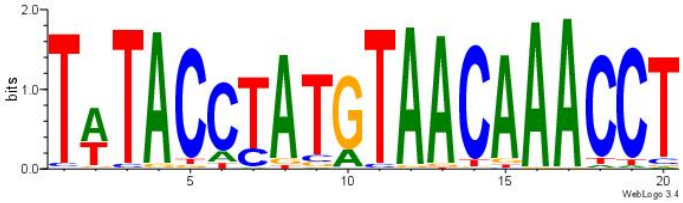

Dataset #:	1

Motif ID:	108
Motif name:	Motif 108
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	11
Similarity score:	0.100069

Alignment:

```
CGAGCCTCCCCGAYGAGCGC
------GCTTCCATGTG---
```

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

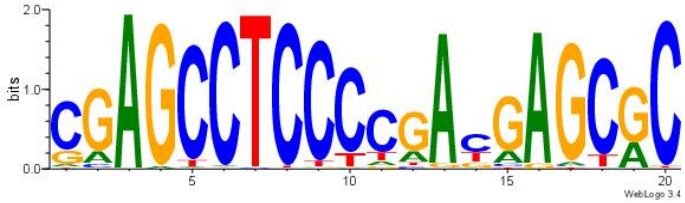

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

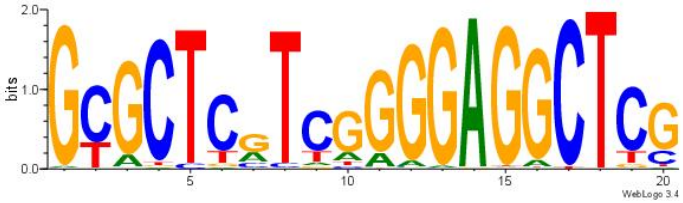

Dataset #: 1 Motif ID: 354 Motif name: Motif 354

Original motif Consensus sequence: GCTGATAAAGAC

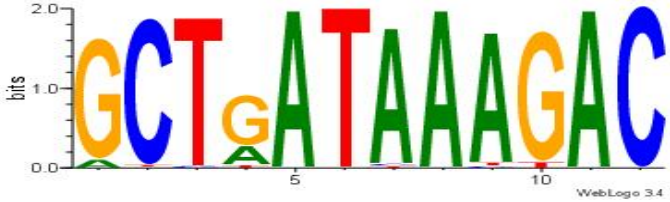

Reverse complement motif Consensus sequence: GTCTTTATCAGC

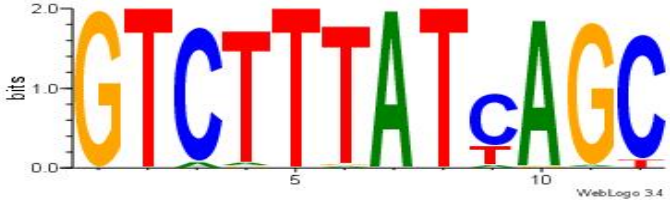

Best Matches for Motif ID 354 (Highest to Lowest)

Dataset #:	1
Motif ID:	329
Motif name:	Motif 329
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0760989

Alignment:

```
GGGAGGGATATATTAGC
GTCTTTATCAGC-----
```

Original motif Consensus sequence: GGGAGGGATATATTAGC

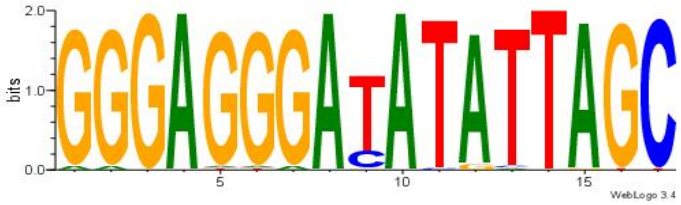

Reverse complement motif Consensus sequence: GCTAATATATCCCTCCC

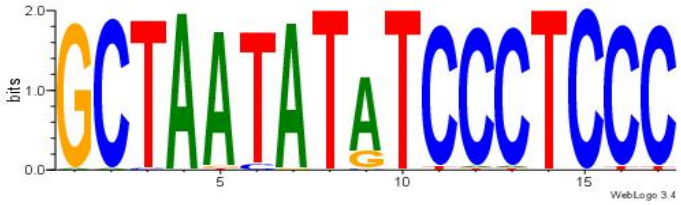

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0776121

Alignment:

```
GGGATTGTAAATACACCAAT
------GCTGATAAAGAC--
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

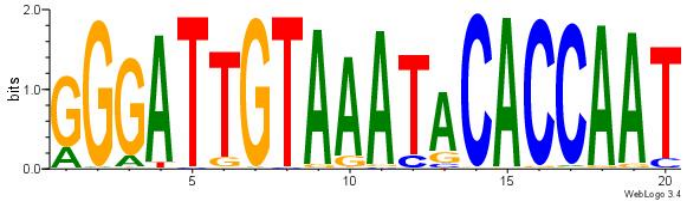

Dataset #:	1
Motif ID:	303
Motif name:	Motif 303
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0781258

Alignment:

```
AGTTCTTAAAGATGGT
-GCTGATAAAGAC---
```

Original motif Consensus sequence: AGTTCTTAAAGATGGT

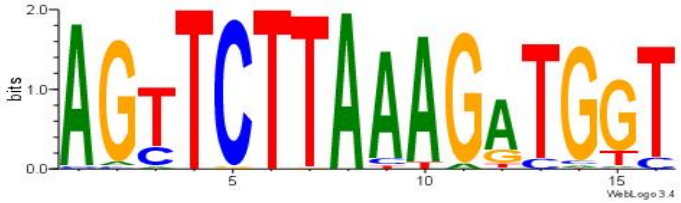

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

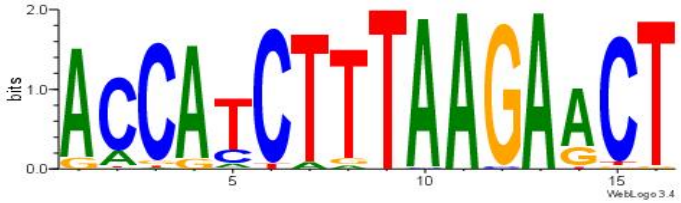

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0799308

Alignment:

```
GGTCAGGATCATCAATAT
-GTCTTTATCAGC-----
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

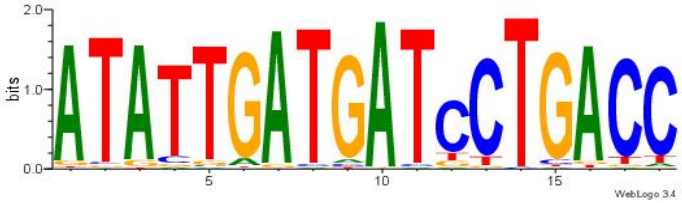

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

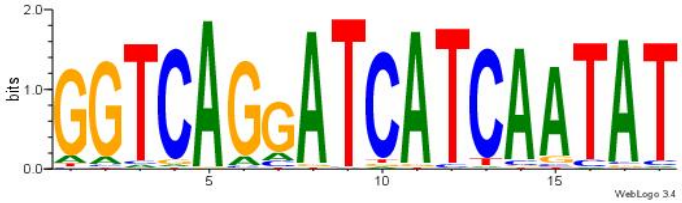

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.0859716

Alignment:

```
GACAGGAGATTAACACTGAG
----GCTGATAAAGAC----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

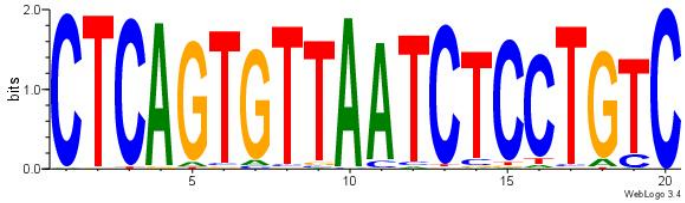

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

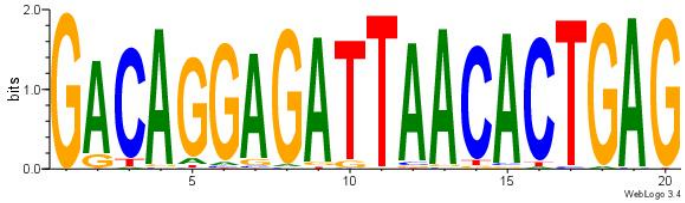

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

Number of overlap: 12
Similarity score: 0.086979

Alignment:
KCCGGGCCTTAGCTGCCTTC
----GTCTTTATCAGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

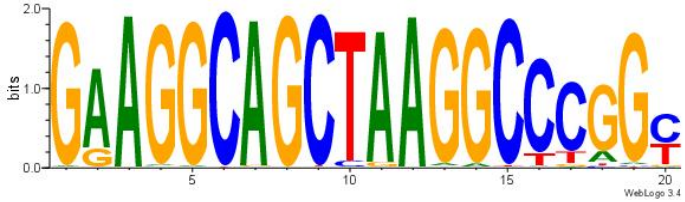

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

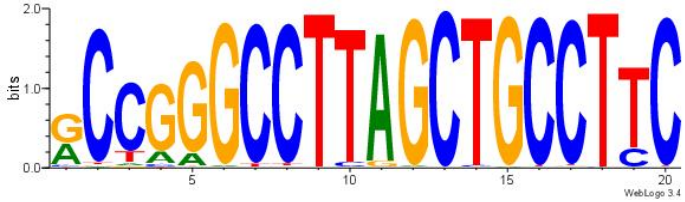

Dataset #: 1
Motif ID: 96
Motif name: Motif 96
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 12
Similarity score: 0.0889127

Alignment:
GGAGCCGGCTCCCTCAGCTT
------GTCTTTATCAGC--

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

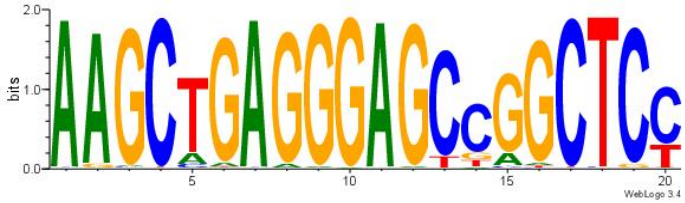

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

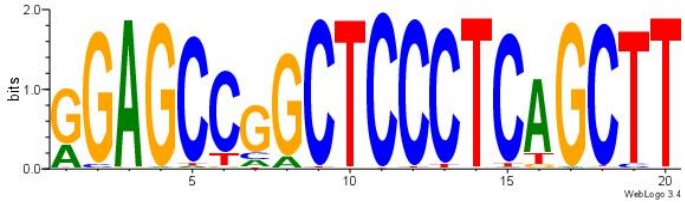

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.0900711

Alignment:

```
AGTGTTTCCAAMCTGCT
----GTCTTTATCAGC-
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

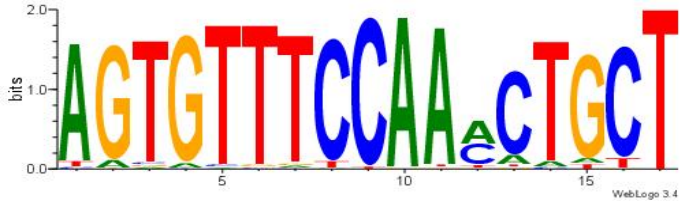

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

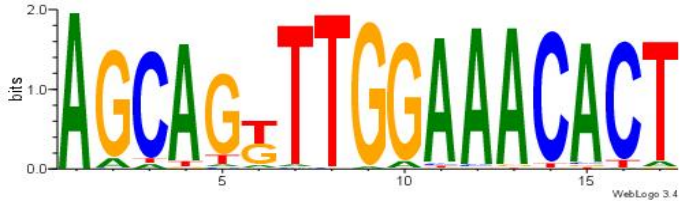

Dataset #:	1
Motif ID:	362
Motif name:	Motif 362
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0942697

Alignment:

```
GGACCTTCAGAGC
-GTCTTTATCAGC
```

Original motif Consensus sequence: GCTCTGAAGGTCC

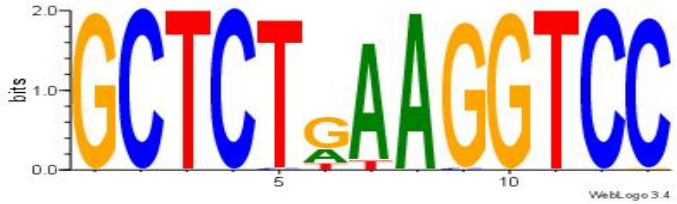

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

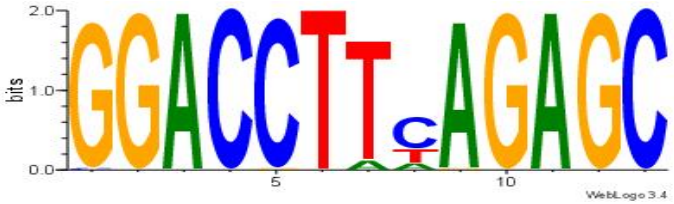

Dataset #:	1
Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12

Similarity score: 0.0952917

Alignment:
CTGGGCRACAGAGYRAGACY
-------GCTGATAAAGAC-

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

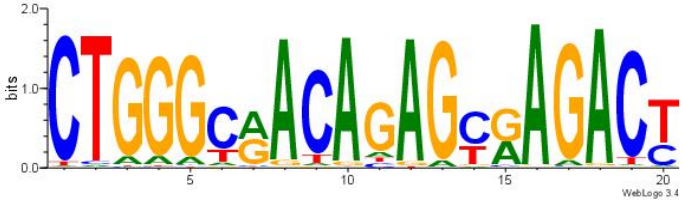

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

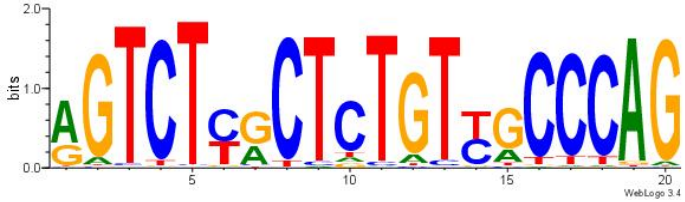

Dataset #: 1
Motif ID: 193
Motif name: Motif 193
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 8
Number of overlap: 12
Similarity score: 0.0958779

Alignment:
GKCTGTACCCCCATTGTAT
GTCTTTATCAGC-------

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

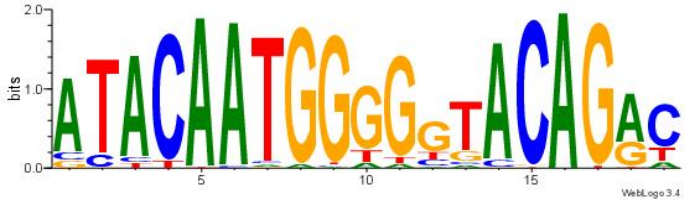

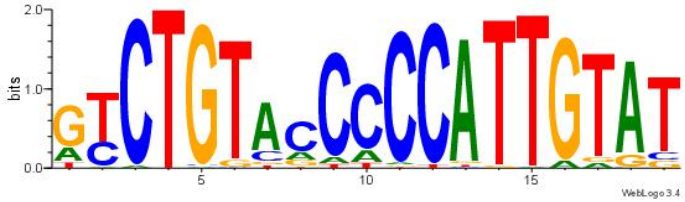

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0961665

Alignment:

```
CCACCACAGCTCAAGGAGGC
--------GCTGATAAAGAC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

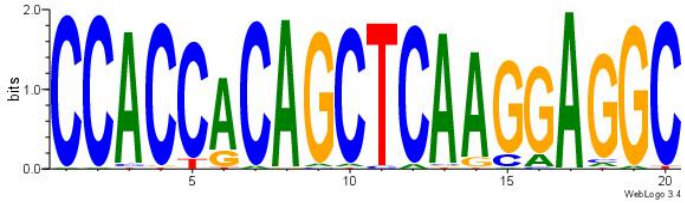

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

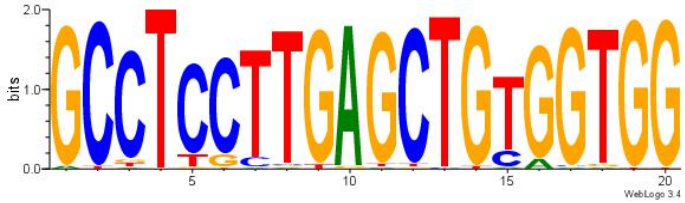

Dataset #: 1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.0966294

Alignment:

```
TGCTCACACAAAGCCTGT
---GCTGATAAAGAC---
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

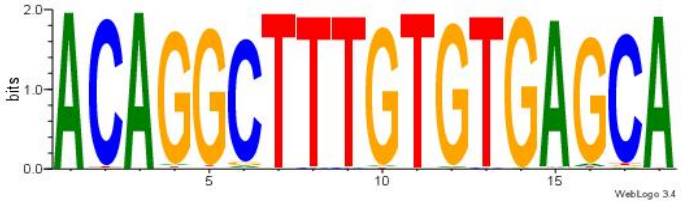

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

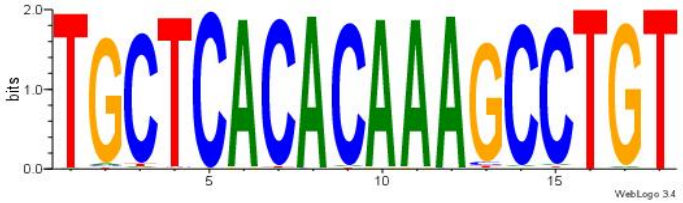

Dataset #:	1
Motif ID:	282
Motif name:	Motif 282
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12

Similarity score: 0.0984264

Alignment:
TTTTAGTAGAGAC
GCTGATAAAGAC-

Original motif Consensus sequence: GTCTCTACTAAAA

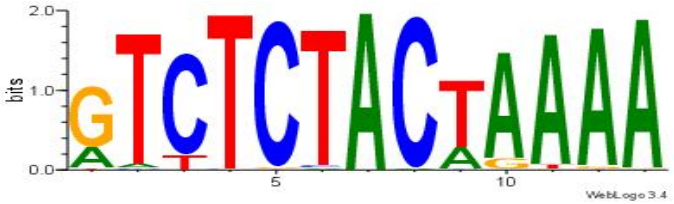

Reverse complement motif Consensus sequence: TTTTAGTAGAGAC

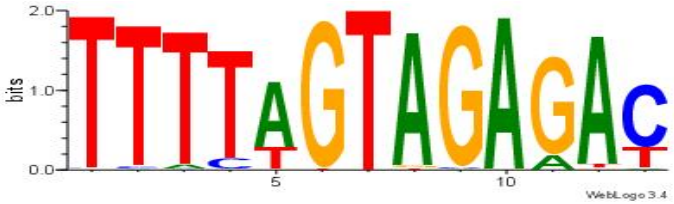

Dataset #: 1
Motif ID: 83
Motif name: Motif 83
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 9
Number of overlap: 12
Similarity score: 0.0986053

Alignment:
GTKTMTATMTACCACATTTT
GTCTTTATCAGC--------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

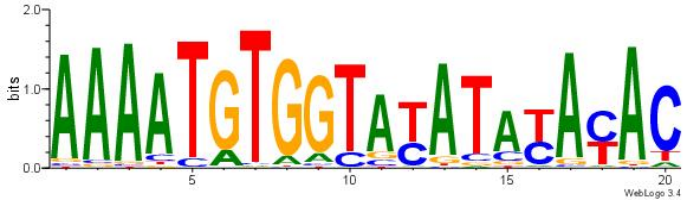

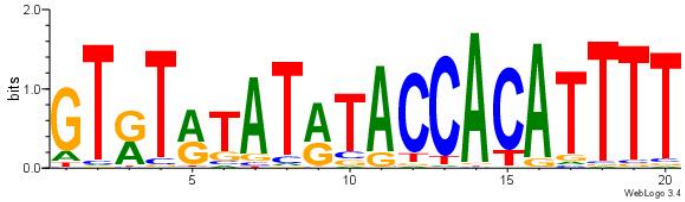

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	12
Similarity score:	0.0988191

Alignment:

```
AAATTAGGCCAATTAATAAC
-------GCTGATAAAGAC-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

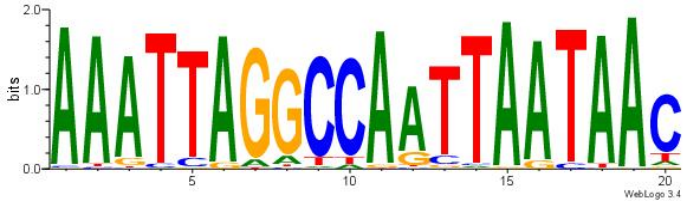

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1

Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0999565

Alignment:

```
GGATGGTGAGGGC
GCTGATAAAGAC-
```

Original motif Consensus sequence: GCCCTCACCATCC

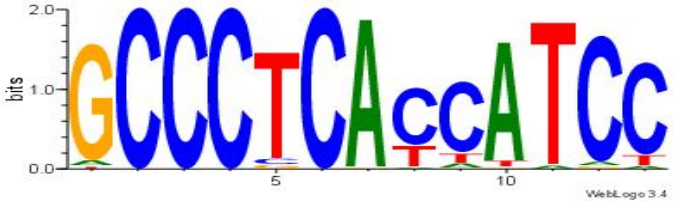

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

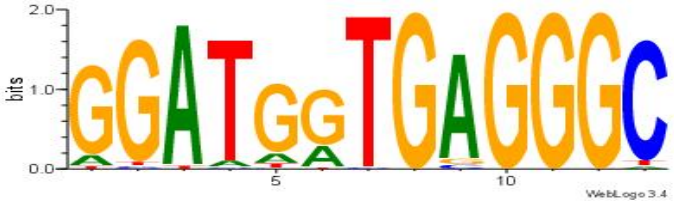

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.100238

Alignment:
GGCTGAGGAGTGCG
-GCTGATAAAGAC-

Original motif Consensus sequence: CGCACTCCTCAGCC

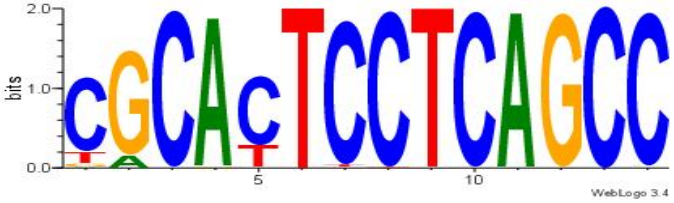

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

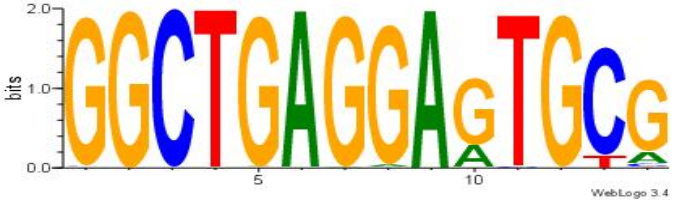

Dataset #:	1
Motif ID:	277
Motif name:	Motif 277
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.100557

Alignment:
GCTTCTGGTGAGGGC
GCTGATAAAGAC---

Original motif Consensus sequence: GCCCTCACCAGAAGC

Reverse complement motif Consensus sequence: GCTTCTGGTGAGG

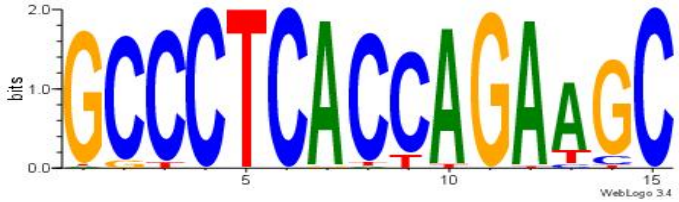

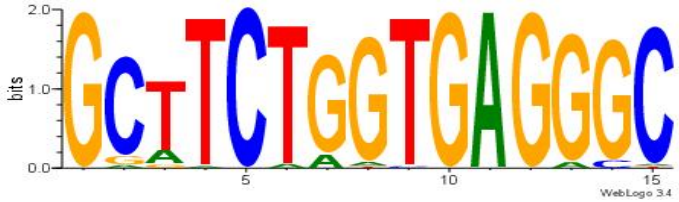

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.101492

Alignment:

```
GCCGTTTKTTAAGCCCGTY
---GCTGATAAAGAC----
```

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

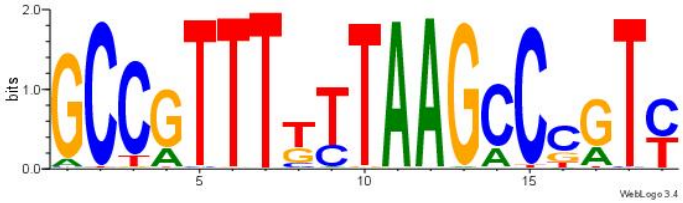

Reverse complement motif Consensus sequence: KACGGGCTTAARAAACGGC

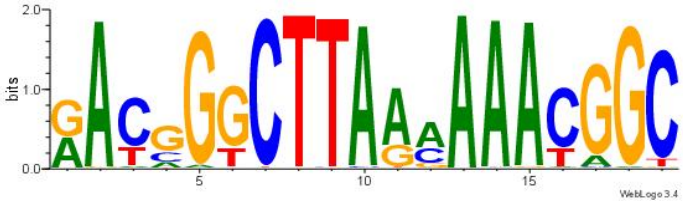

Dataset #:	1

Motif ID:	253
Motif name:	Motif 253
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.10194

Alignment:

```
ACAGAGTGAGACTCT
---GCTGATAAAGAC
```

Original motif Consensus sequence: AGAGTCTCACTCTGT

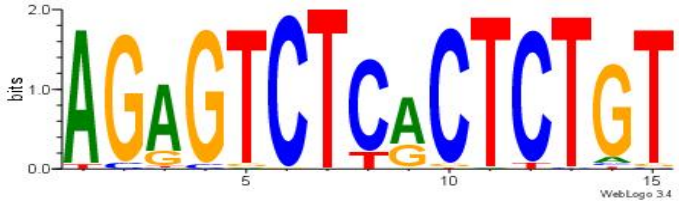

Reverse complement motif Consensus sequence: ACAGAGTGAGACT

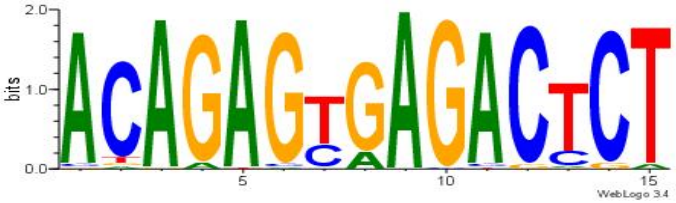

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.102184

Alignment:
AGGTATTTCTCCCACC
--GTCTTTATCAGC--

Original motif Consensus sequence: AGGTATTTCTCCCACC

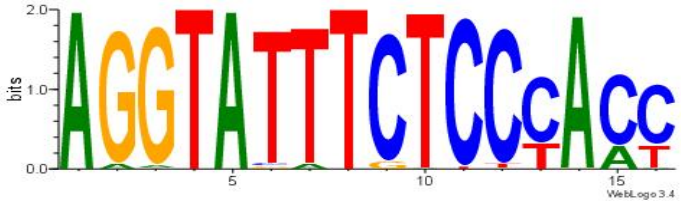

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

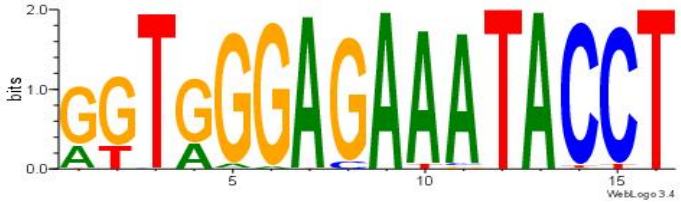

Dataset #:	1
Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.102387

Alignment:
ATGGCTGAATAKTATTCCAT
-----GCTGATAAAGAC---

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

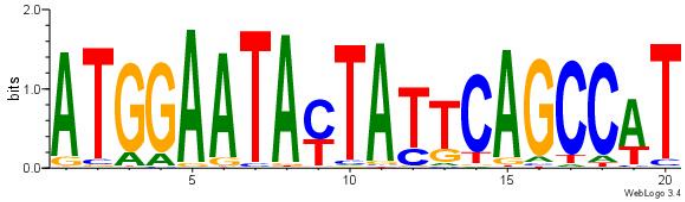

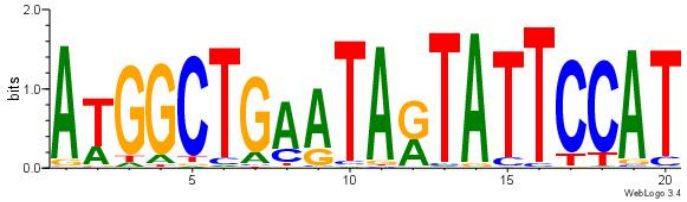

Dataset #:	1
Motif ID:	233
Motif name:	Motif 233
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.102555

Alignment:

```
GTTAACTGTAAAACAGCCT
----GCTGATAAAGAC---
```

Original motif Consensus sequence: GTTAACTGTAAAACAGCCT

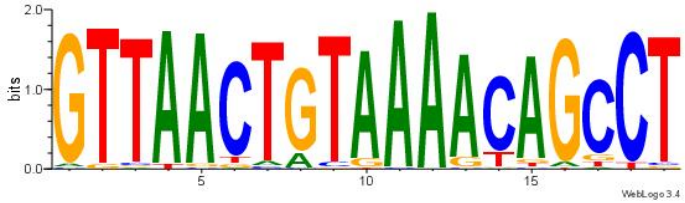

Reverse complement motif Consensus sequence: AGGCTGTTTTACAGTTAAC

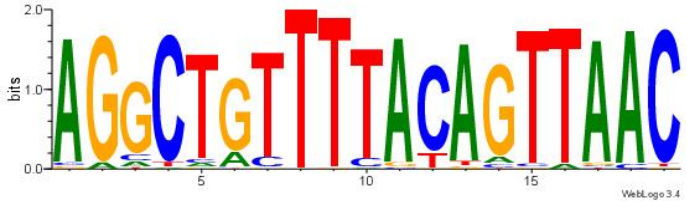

Dataset #: 1

Motif ID:	192
Motif name:	Motif 192
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	12
Similarity score:	0.102878

Alignment:

```
ACAGGCTGTCCCAGGATTC
---GTCTTTATCAGC----
```

Original motif Consensus sequence: GAATCCTGGGACAGCCTGT

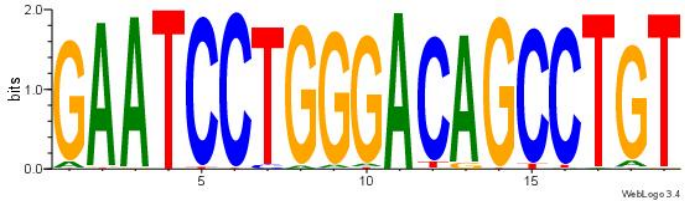

Reverse complement motif Consensus sequence: ACAGGCTGTCCCAGGATTC

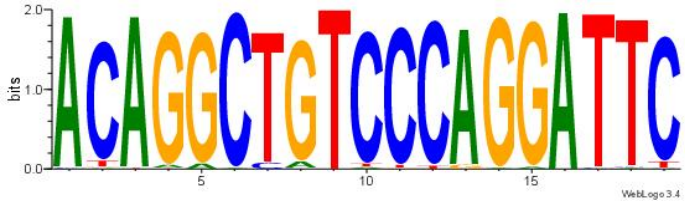

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	12

Similarity score: 0.103501

Alignment:
AGCCYCTGGYAACCAYYAWT
----GCTGATAAAGAC----

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

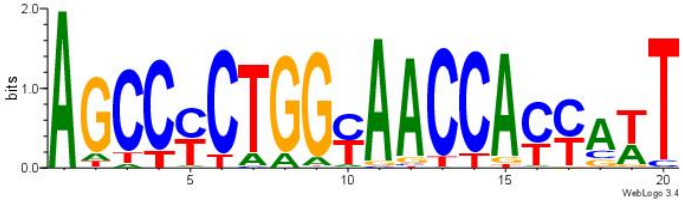

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

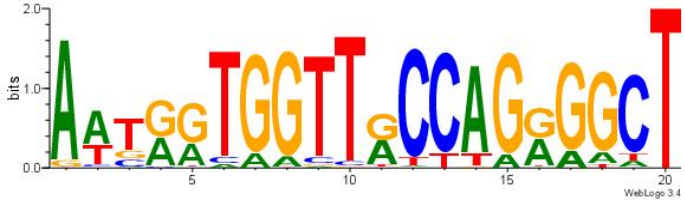

Dataset #: 1
Motif ID: 299
Motif name: Motif 299
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.103974

Alignment:
TTGGAGGTTCTAGCAGGG
-----GTCTTTATCAGC-

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence: TTGGAGGTTCTAGCAGGG

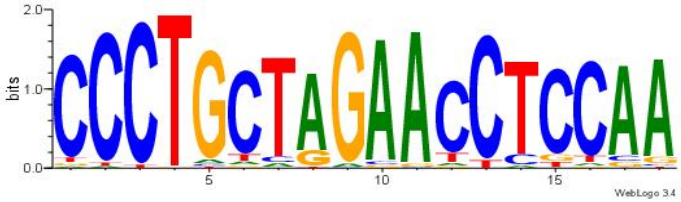

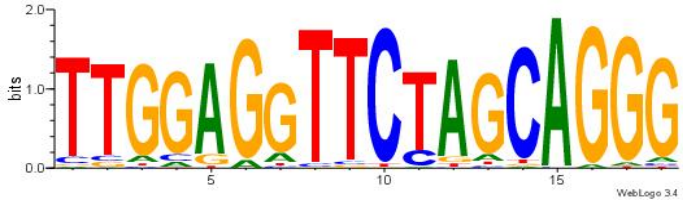

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.103993

Alignment:

```
ACTGTCTTCCACCTCCACAT
-----GTCTTTATCAGC---
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

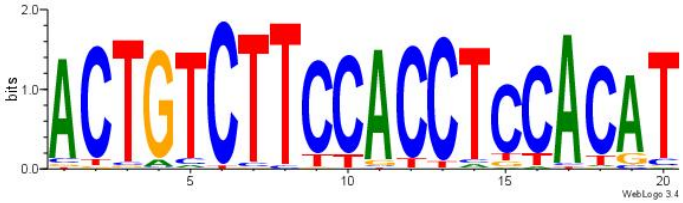

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

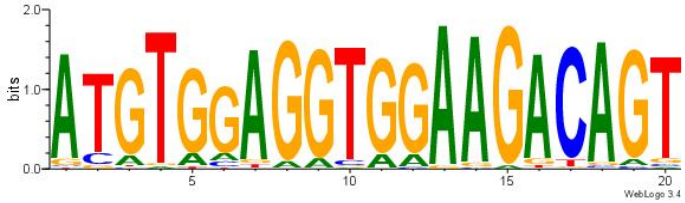

Dataset #: 1

Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.104155

Alignment:

```
TAATTTTATGTGTCAACTTG
-----GTCTTTATCAGC---
```

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

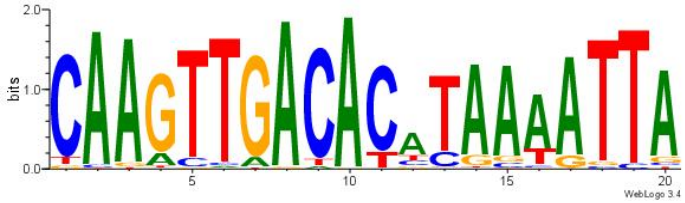

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

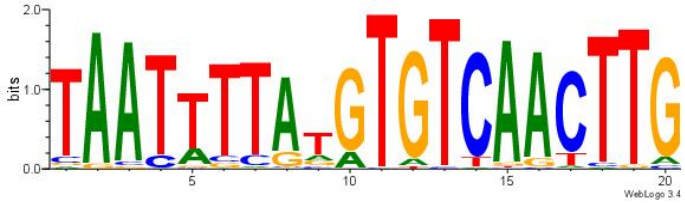

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12

Similarity score: 0.104201

Alignment:
GCCAGTCACAAAARGACAMA
-----GCTGATAAAGAC---

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

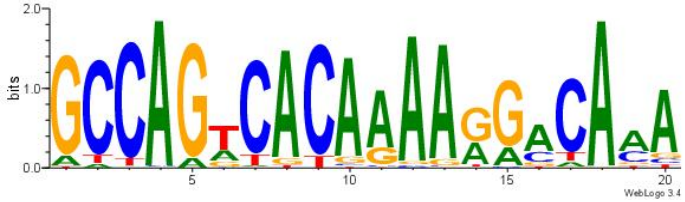

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

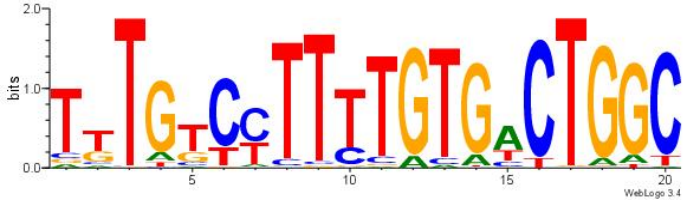

Dataset #: 1
Motif ID: 213
Motif name: Motif 213
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 12
Similarity score: 0.104977

Alignment:
AAYRGACTAATACA
-GCTGATAAAGAC-

Original motif Consensus sequence: AAYRGACTAATACA

Reverse complement motif Consensus sequence: TGTATTAGTCMMT

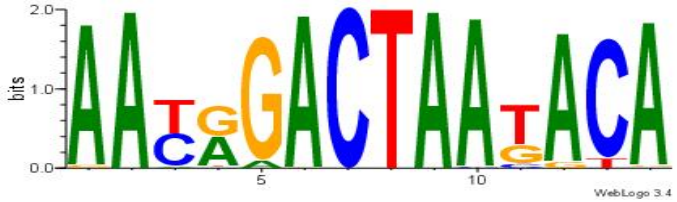

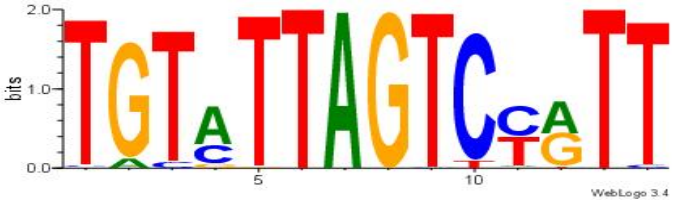

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.105493

Alignment:

```
MGCTGAGGCAGGAG
-GCTGATAAAGAC-
```

Original motif Consensus sequence: CTCCTGCCTCAGCY

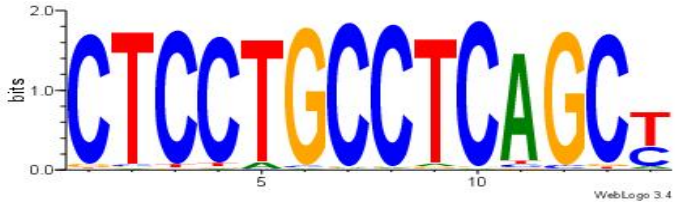

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

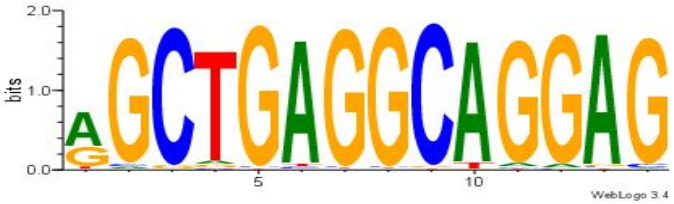

Dataset #:	1
Motif ID:	26

Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.105526

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-------GTCTTTATCAGC-
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

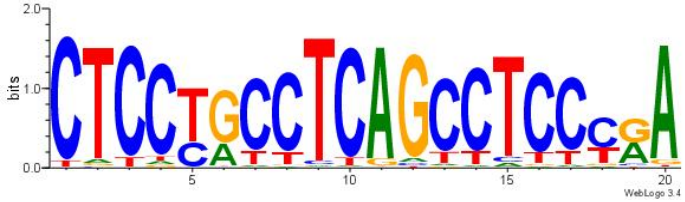

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

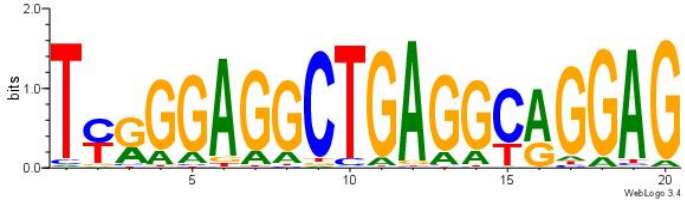

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	12
Similarity score:	0.106317

Alignment:
AATTAAAAGACACAGACTG
-----GCTGATAAAGAC--

Original motif Consensus sequence: AATTAAAAGACACAGACTG

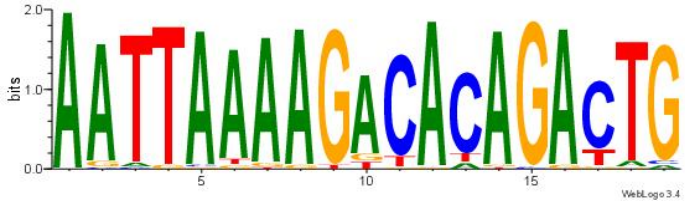

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

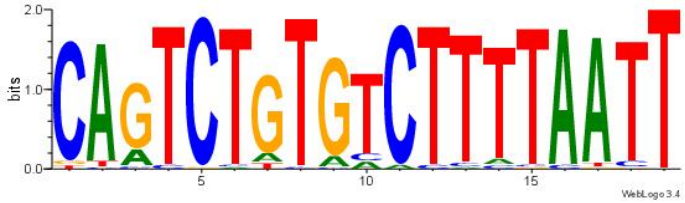

Dataset #:	1
Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	12
Similarity score:	0.106419

Alignment:
TTTYTWTTTTTTYTWGAGAC
GCTGATAAAGAC--------

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

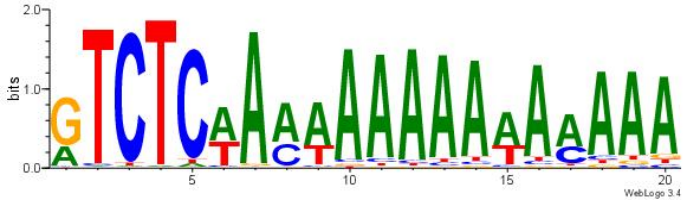

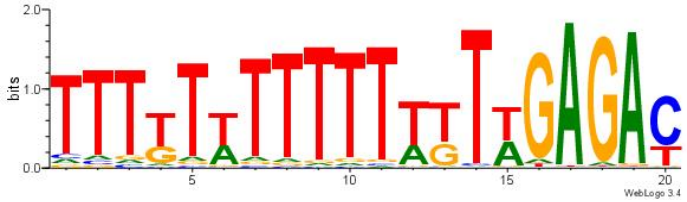

Dataset #: 1
Motif ID: 293
Motif name: Motif 293
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.106493

Alignment:
CTGACTGGGAGACACCTCCC
---GCTGATAAAGAC-----

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

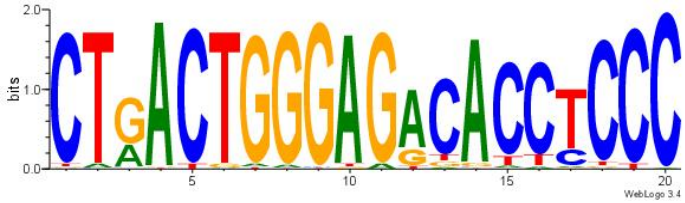

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

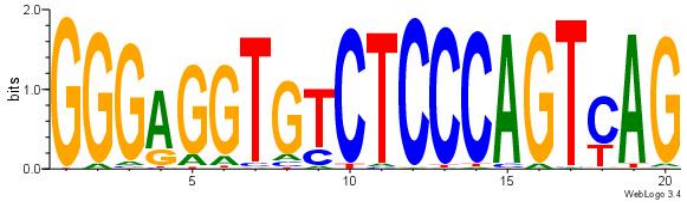

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	12
Similarity score:	0.106554

Alignment:

```
AGAGCCAAATCATGARTGAA
----GCTGATAAAGAC----
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

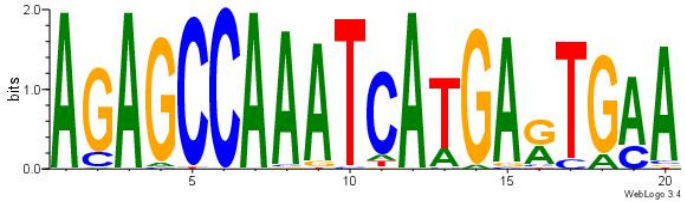

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

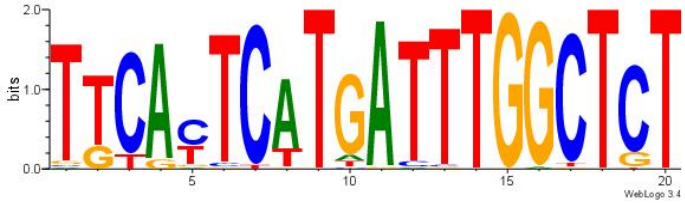

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12

Similarity score: 0.107124

Alignment:
CAGCTACTCKTATACCCTTG
---GCTGATAAAGAC-----

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

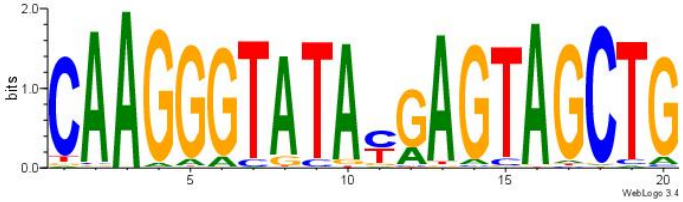

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

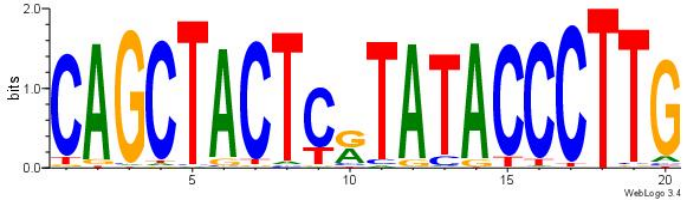

Dataset #: 1
Motif ID: 85
Motif name: Motif 85
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 12
Similarity score: 0.107476

Alignment:
CTAGACATAAAGGTTCTCCA
--GCTGATAAAGAC------

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

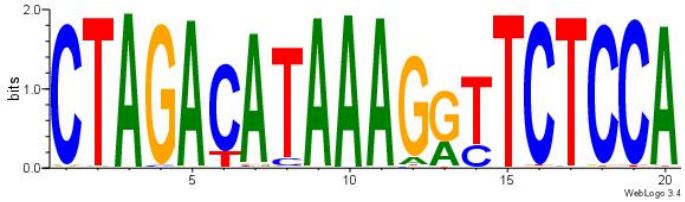

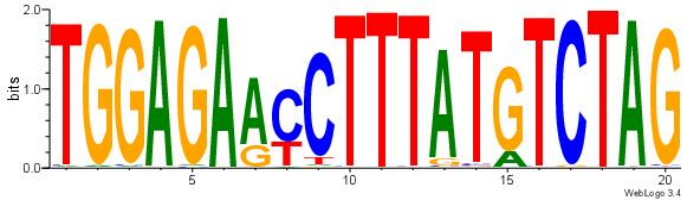

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.107934

Alignment:

```
GATCACGAGGTCAGGAG
GCTGATAAAGAC-----
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

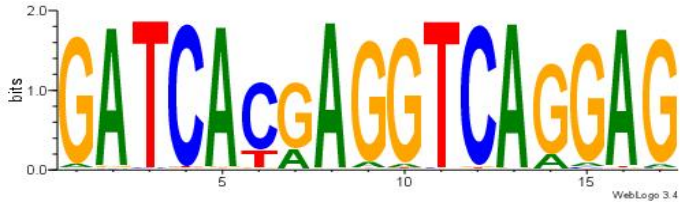

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

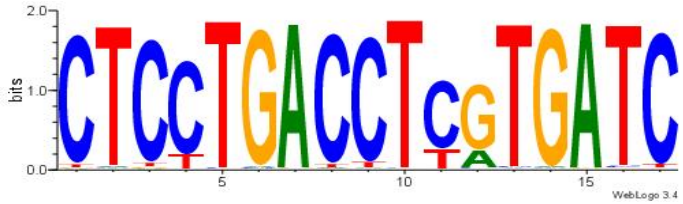

Dataset #:	1

Motif ID:	270
Motif name:	Motif 270
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.108105

Alignment:

```
CCTMACAATCATGG
--GCTGATAAAGAC
```

Original motif Consensus sequence: CCATGATTGTRAGG

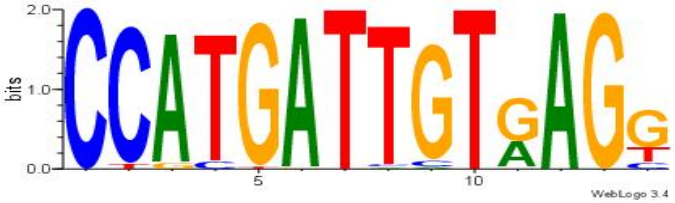

Reverse complement motif Consensus sequence: CCTMACAATCATG

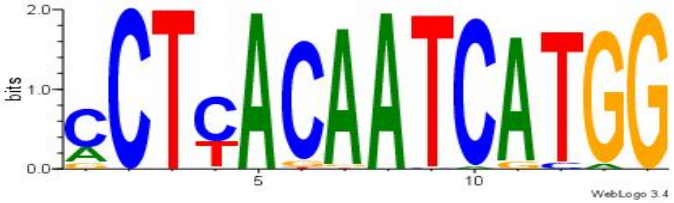

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	12
Similarity score:	0.109092

Alignment:
ATGGCCTATGACYGSTTTG
----GTCTTTATCAGC---

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

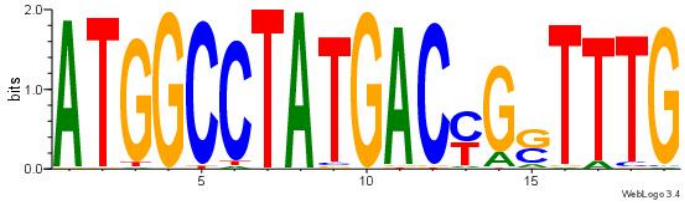

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

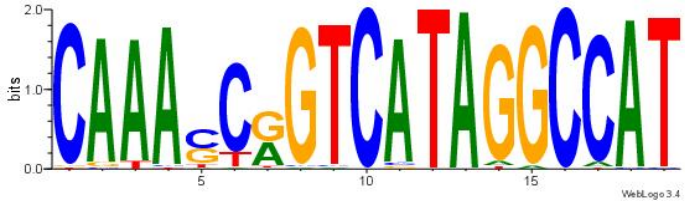

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.110434

Alignment:
CAAAGGCATAAGAATGAT
------GCTGATAAAGAC

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

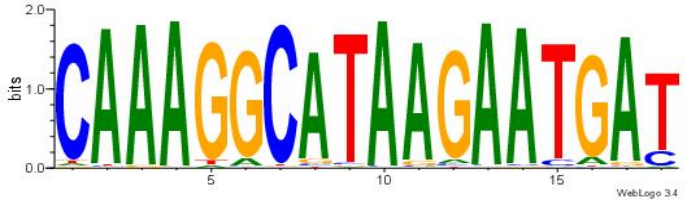

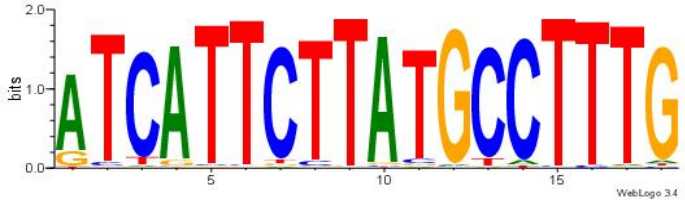

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.110434

Alignment:

```
TAGATAATAGCTCCAGCTTT
--GCTGATAAAGAC------
```

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

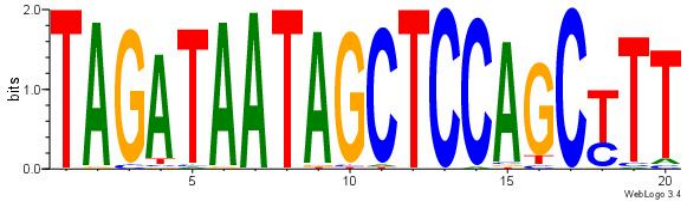

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

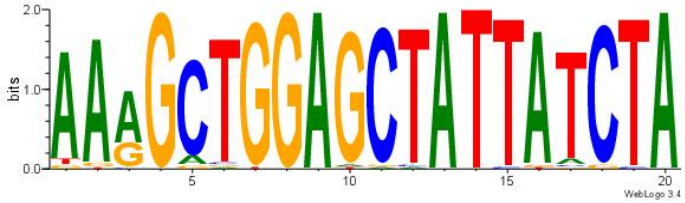

Dataset #: 1

Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.110536

Alignment:

```
AATGAGTTAAGACTTTG
-GCTGATAAAGAC----
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

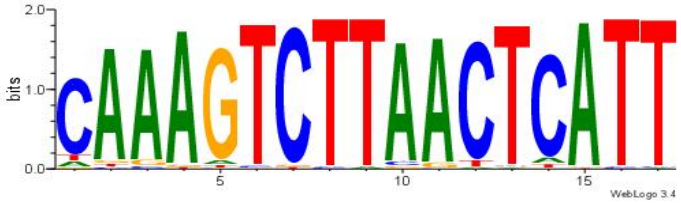

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12

Similarity score: 0.11153

Alignment:
ATGTAACCAAAYACCACCTG
--GCTGATAAAGAC------

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

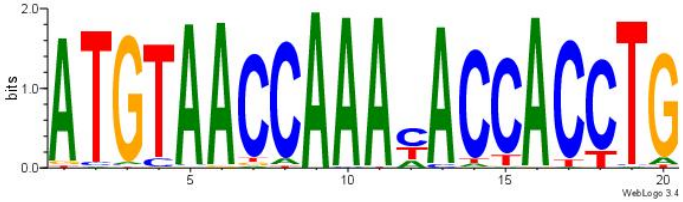

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

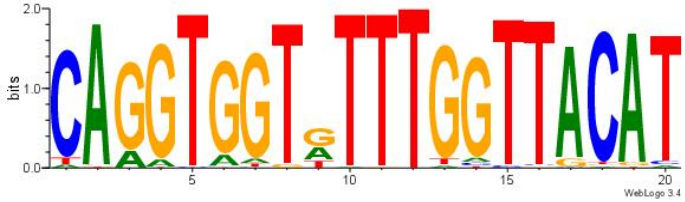

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 12
Similarity score: 0.11187

Alignment:
VMATTTAKTGAGCACCTACT
----GTCTTTATCAGC----

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

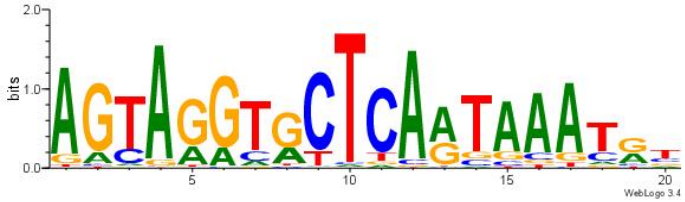

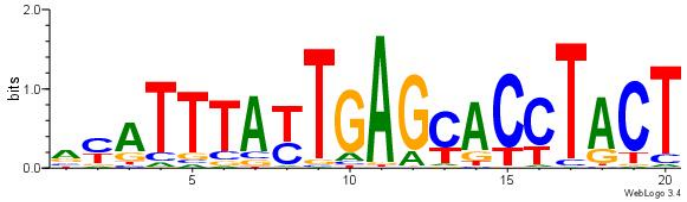

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.112001

Alignment:

```
MCCYGGCWSMGASGSTCCT
--GCTGATAAAGAC-----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

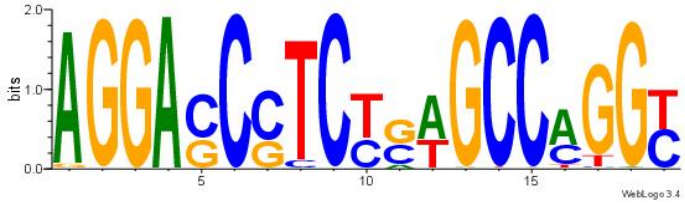

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

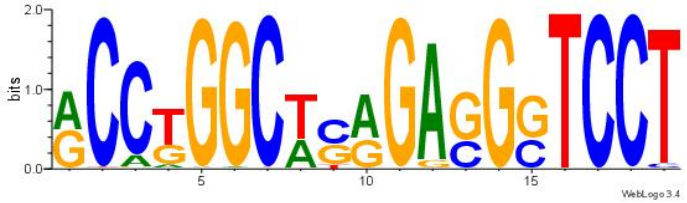

Dataset #:	1

Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	12
Similarity score:	0.112449

Alignment:

```
CGGCTTCATTCTTGAAGTC
GCTGATAAAGAC-------
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

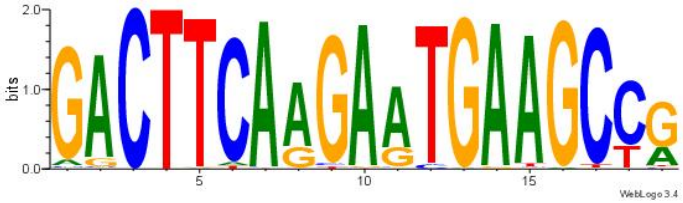

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

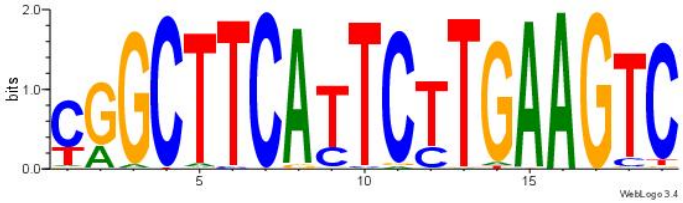

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12

Similarity score: 0.112476

Alignment:
AGTTGTAATTGGGAGACTT
------GTCTTTATCAGC-

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

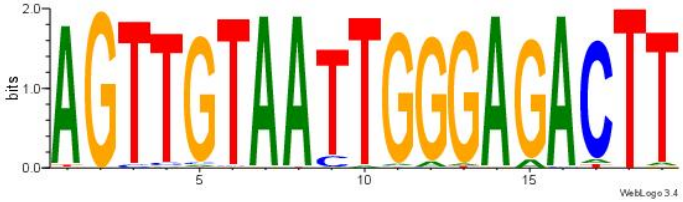

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

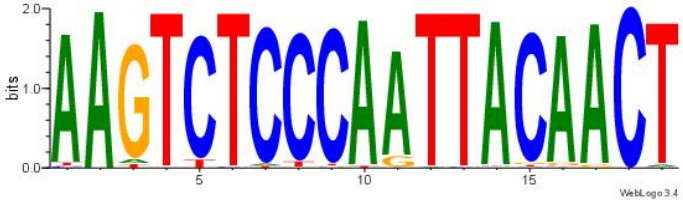

Dataset #: 1 Motif ID: 355 Motif name: Motif 355

Original motif Consensus sequence: TATGAGCCTGTAA

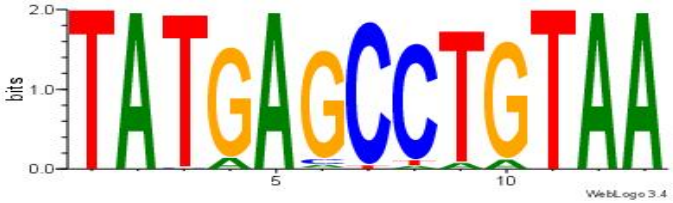

Reverse complement motif Consensus sequence: TTACAGGCTCATA

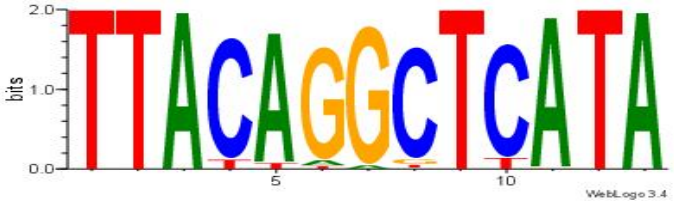

Best Matches for Motif ID 355 (Highest to Lowest)

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.059588

Alignment:

```
TCCTATGAGAATCTAATG
--TATGAGCCTGTAA---
```

Original motif Consensus sequence: CATTAGATTCTCATAGGA

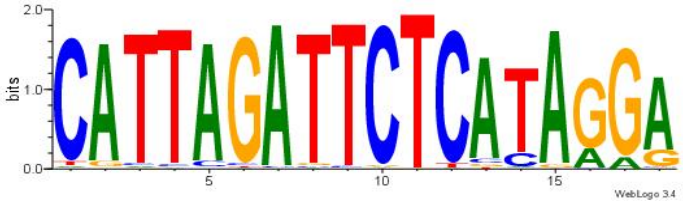

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

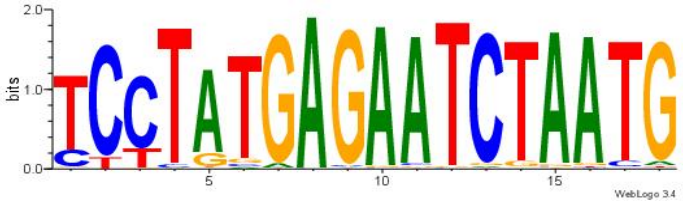

Dataset #:	1
Motif ID:	275
Motif name:	Motif 275
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0903624

Alignment:

```
CTCACAGAGTTAAA
TTACAGGCTCATA-
```

Original motif Consensus sequence: CTCACAGAGTTAAA

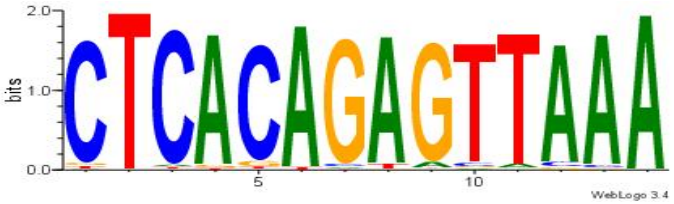

Reverse complement motif Consensus sequence: TTTAACTCTGTGAG

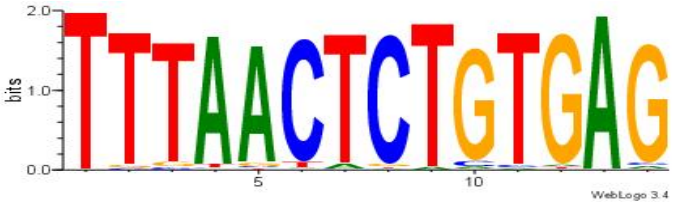

Dataset #:	1
Motif ID:	184
Motif name:	Motif 184
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0930991

Alignment:

```
GGTCAGGATCATCAATAT
TTACAGGCTCATA-----
```

Original motif Consensus sequence: ATATTGATGATCCTGACC

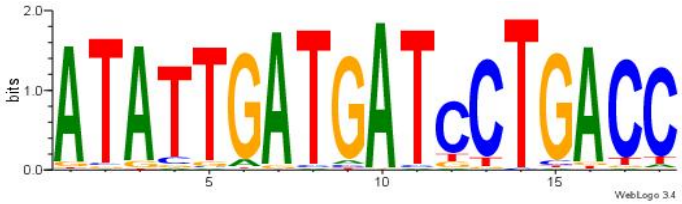

Reverse complement motif Consensus sequence: GGTCAGGATCATCAATAT

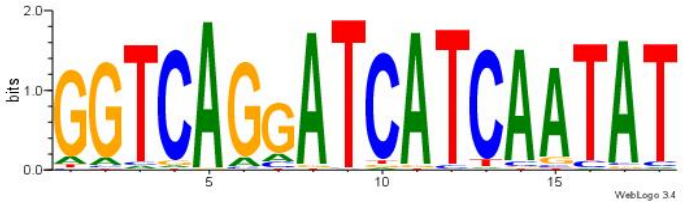

Dataset #:	1
Motif ID:	278
Motif name:	Motif 278
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0931692

Alignment:

```
ACTTTCAGGCATAACA
-TTACAGGCTCATA--
```

Original motif Consensus sequence: ACTTTCAGGCATAACA

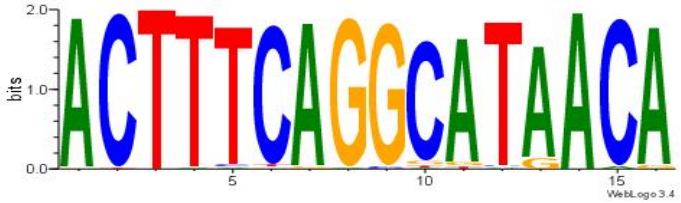

Reverse complement motif Consensus sequence: TGTTATGCCTGAAAGT

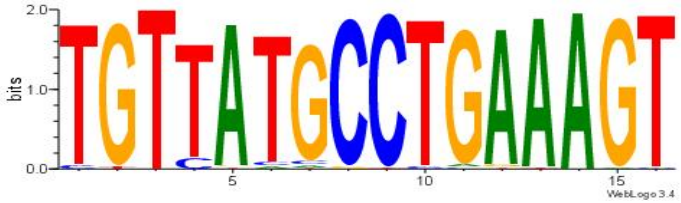

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4

Number of overlap: 13
Similarity score: 0.0940052

Alignment:
AATTAAAAGACACAGACTG
---TTACAGGCTCATA---

Original motif Consensus sequence: AATTAAAAGACACAGACTG

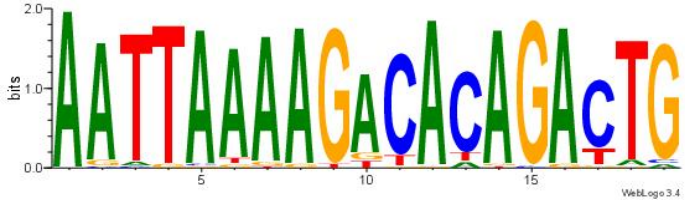

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

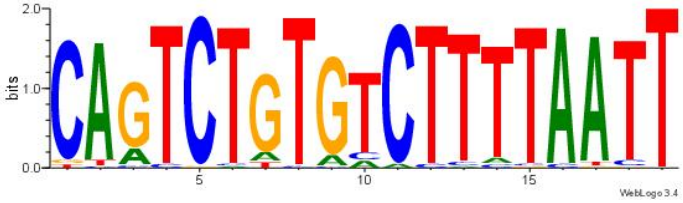

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.0966197

Alignment:
CAACATGGATGRARCTGGAG
-------TATGAGCCTGTAA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

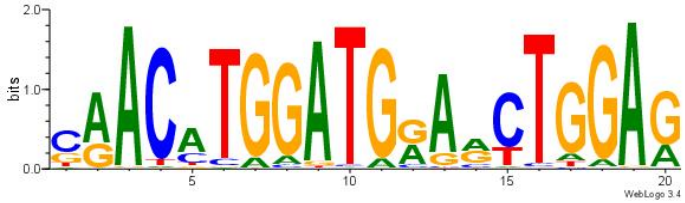

Reverse complement motif Consensus sequence: CTCCAGKTMCATCCATGTTG

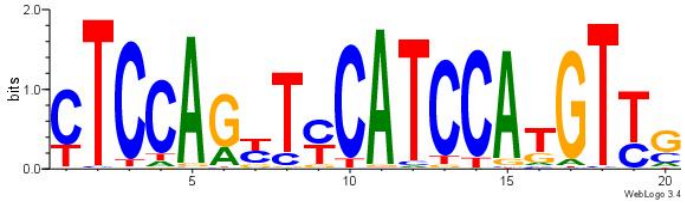

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.098507

Alignment:

```
TCTCTGAGCCTCAGTT
--TATGAGCCTGTAA-
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

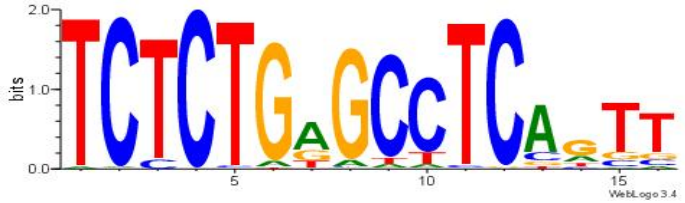

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

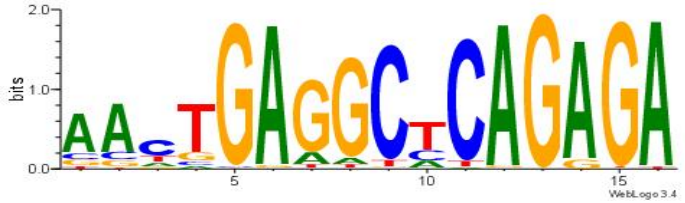

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0990203

Alignment:

```
TWTACCTATGTAACAAACCT
-------TATGAGCCTGTAA
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

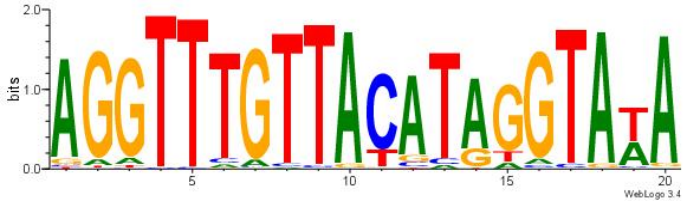

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

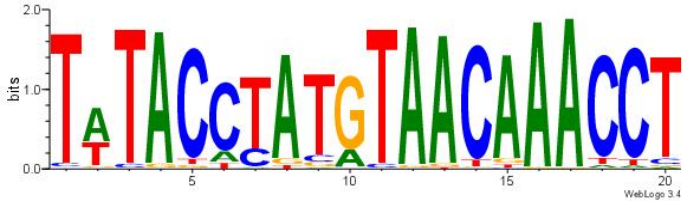

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.101516

Alignment:
GACATGAGCTGGCGCTTG
--TATGAGCCTGTAA---

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

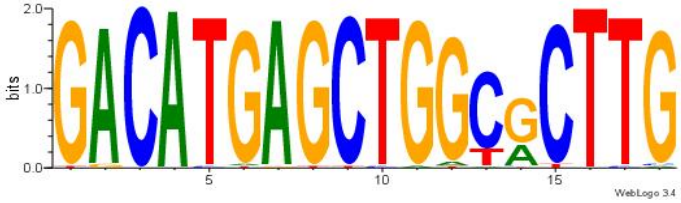

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

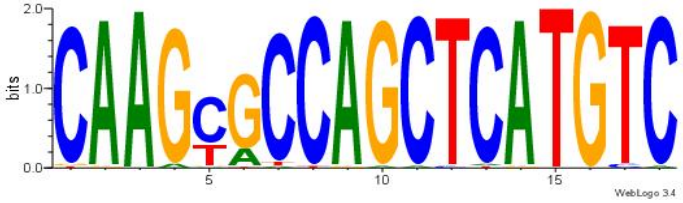

Dataset #: 1
Motif ID: 188
Motif name: Motif 188
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.101884

Alignment:
CTCCAGACACATC
TTACAGGCTCATA

Original motif Consensus sequence: CTCCAGACACATC

Reverse complement motif Consensus sequence: GATGTGTCTGGAG

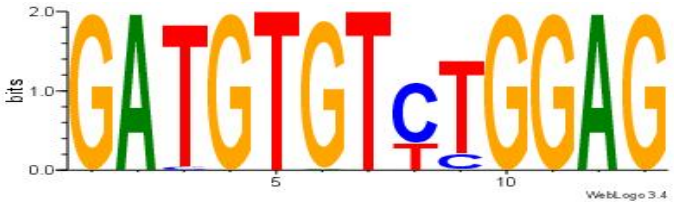

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.102934

Alignment:

```
GTTGTGAGGATTAAATGAG
----TATGAGCCTGTAA--
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

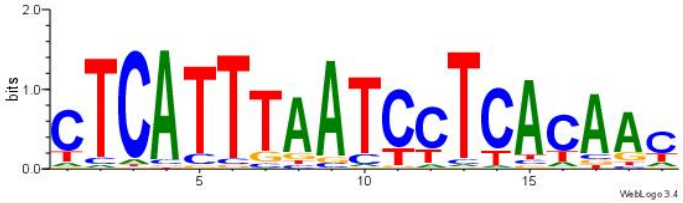

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

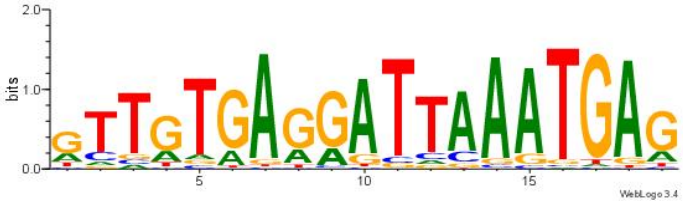

Dataset #:	1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.103268

Alignment:

```
CRTGAGCCACYGYRCCYGGC
TATGAGCCTGTAA-------
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

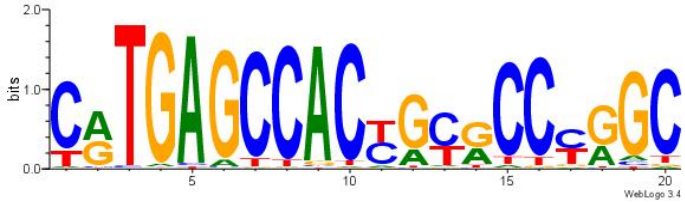

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

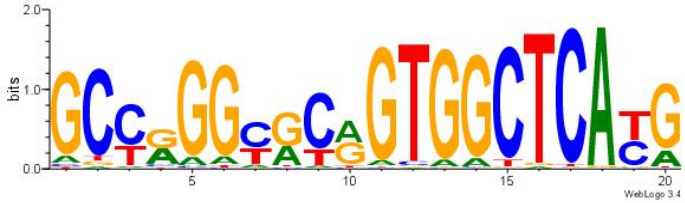

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.104897

Alignment:
CACCAGGAGATTATATCCCR
---TATGAGCCTGTAA----

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

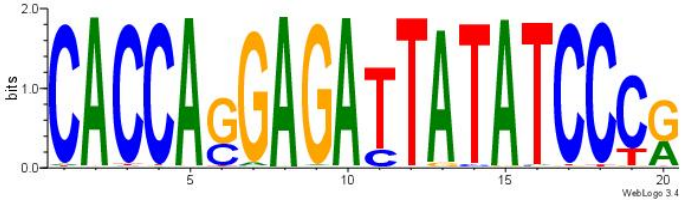

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

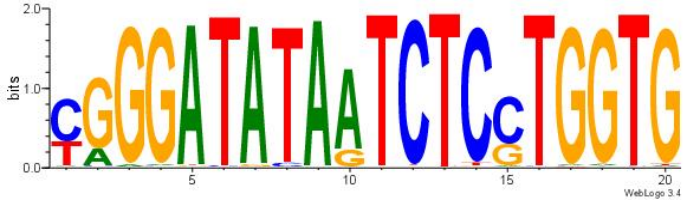

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.106411

Alignment:
CCCATGCAAGTCYRAAATCC
----TATGAGCCTGTAA---

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

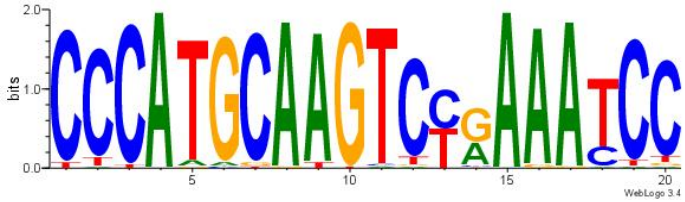

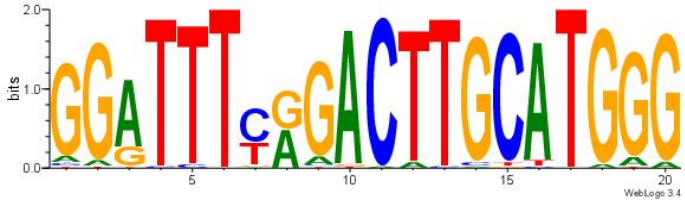

Dataset #:	1
Motif ID:	169
Motif name:	Motif 169
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.106986

Alignment:

```
CCCAAATCCTATAAAA
-TATGAGCCTGTAA--
```

Original motif Consensus sequence: CCCAAATCCTATAAAA

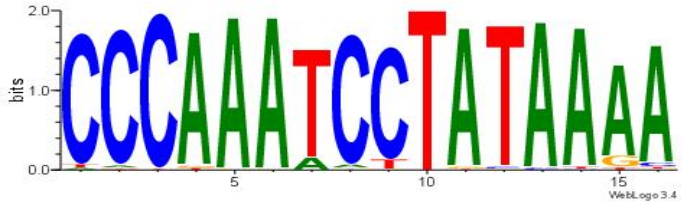

Reverse complement motif Consensus sequence: TTTTATAGGATTTGGG

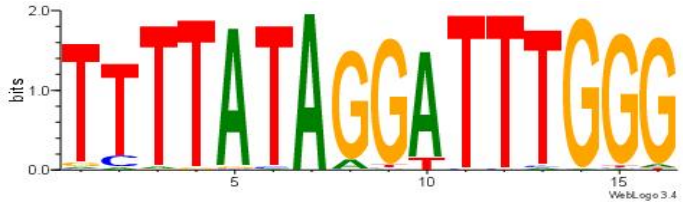

Dataset #:	1

Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.107038

Alignment:

```
AAGACCTTCCAGTGGGACAA
-TTACAGGCTCATA------
```

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

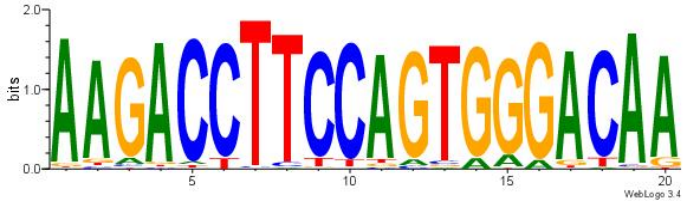

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

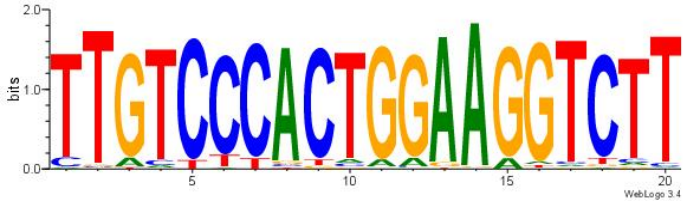

Dataset #:	1
Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.107498

Alignment:
CTGACTGGGAGACACCTCCC
------TTACAGGCTCATA-

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

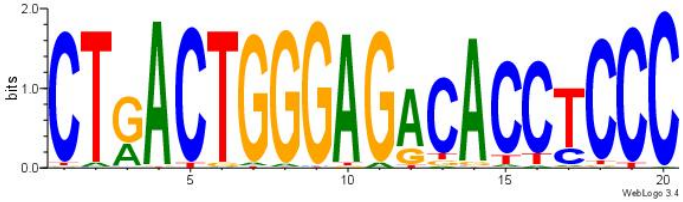

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

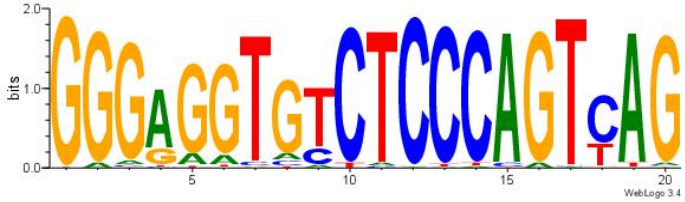

Dataset #: 1
Motif ID: 305
Motif name: Motif 305
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.107728

Alignment:
GCTCTCAATTGGTCATT
----TTACAGGCTCATA

Original motif Consensus sequence: AATGACCAATTGAGAGC

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

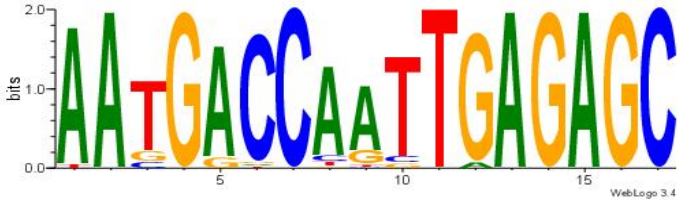

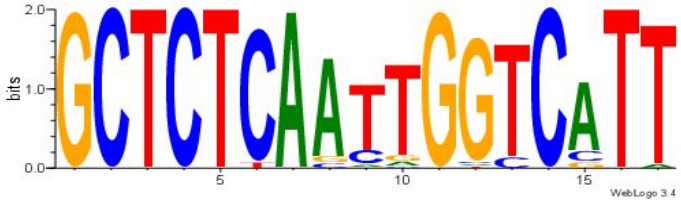

Dataset #:	1
Motif ID:	12
Motif name:	Motif 12
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.107764

Alignment:

```
GTTGGCCAGGCTGGTCT
---TTACAGGCTCATA-
```

Original motif Consensus sequence: AGACCAGCCTGGCCAAC

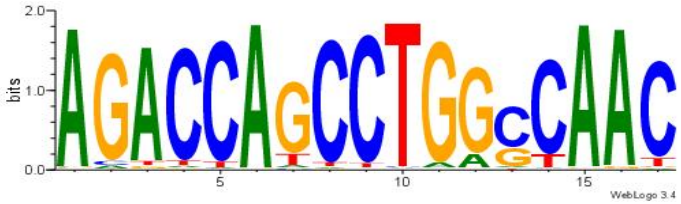

Reverse complement motif Consensus sequence: GTTGGCCAGGCTGGTCT

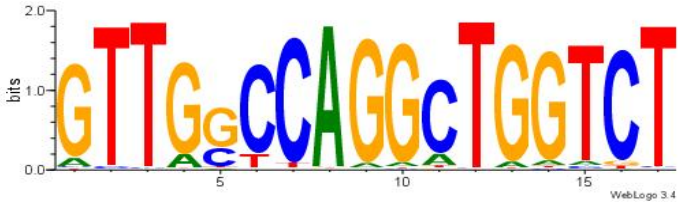

Dataset #: 1

Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.108482

Alignment:

```
CTCCTGACCTCGTGATC
--TATGAGCCTGTAA--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

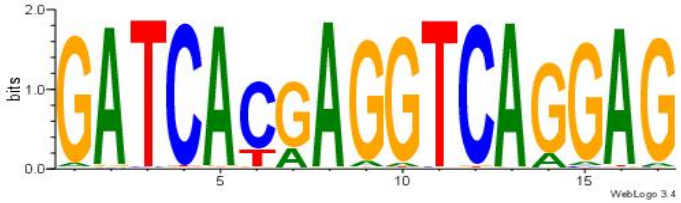

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

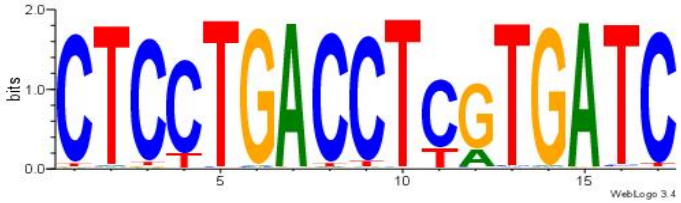

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13

Similarity score: 0.108822

Alignment:
TAAAAGACTACAWATTGGGT
TATGAGCCTGTAA-------

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

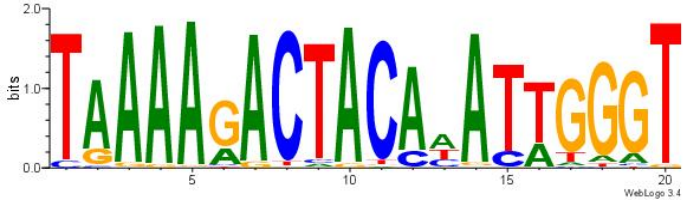

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

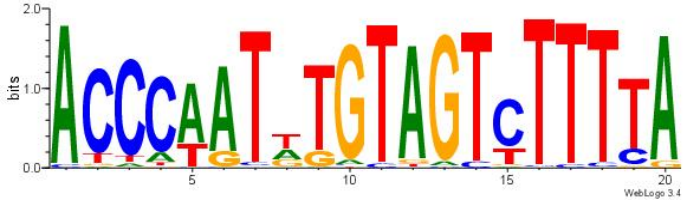

Dataset #:	1
Motif ID:	290
Motif name:	Motif 290
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.10889

Alignment:
CTGTTTGCCTGGGTATCA
----TATGAGCCTGTAA-

Original motif Consensus sequence: TGATACCCAGGCAAACAG

Reverse complement motif Consensus sequence: CTGTTTGCCTGGGTATCA

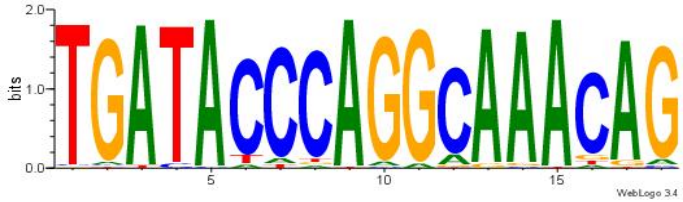

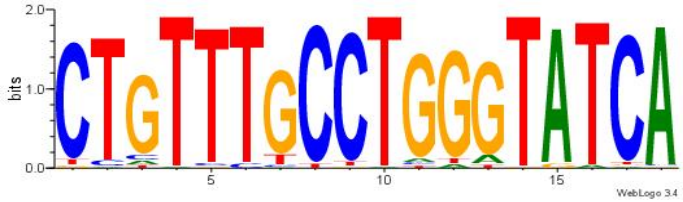

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.109624

Alignment:

```
CCCACACCCTTATTA
-TTACAGGCTCATA-
```

Original motif Consensus sequence: CCCACACCCTTATTA

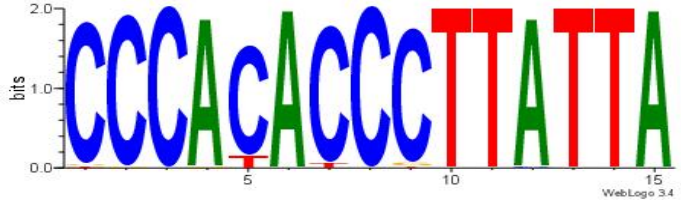

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

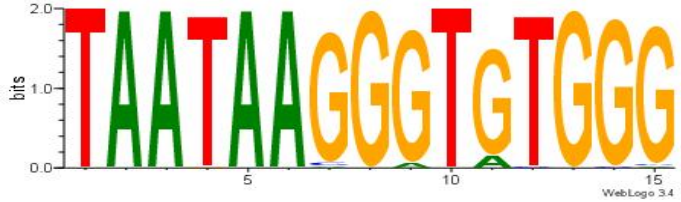

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.110929

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
-------TATGAGCCTGTAA
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

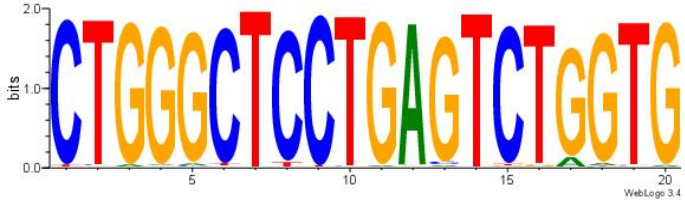

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

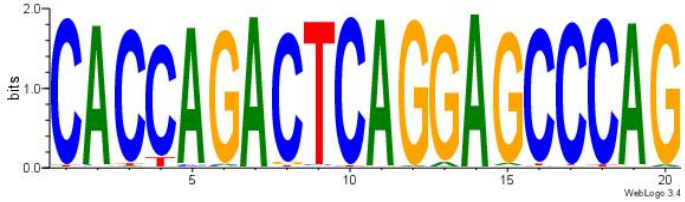

Dataset #:	1
Motif ID:	189
Motif name:	Motif 189
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.111233

Alignment:
CAATGATAGACTGGAT
TATGAGCCTGTAA---

Original motif Consensus sequence: ATCCAGTCTATCATTG

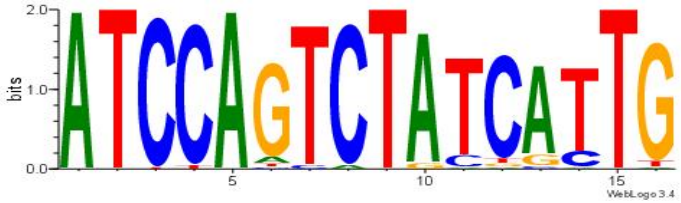

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

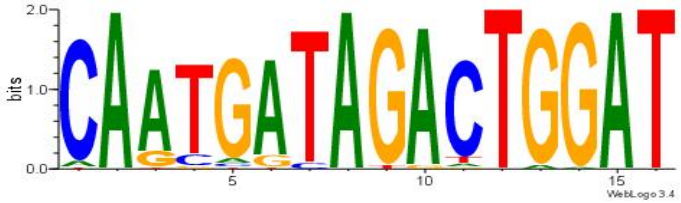

Dataset #:	1
Motif ID:	245
Motif name:	Motif 245
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.111415

Alignment:
CAGACTGCCTCCTCAA
--TTACAGGCTCATA-

Original motif Consensus sequence: CAGACTGCCTCCTCAA

Reverse complement motif Consensus sequence: TTGAGGAGGCAGTCTG

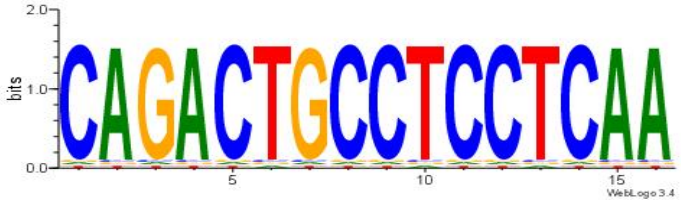

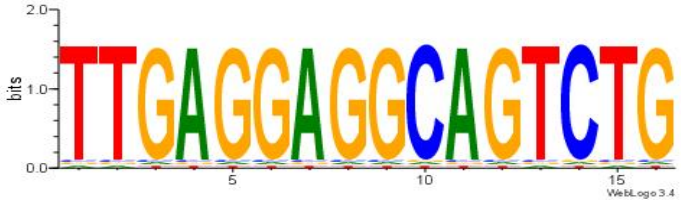

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.11166

Alignment:

```
AATGAKATCATGTCYTTTGC
-----TATGAGCCTGTAA--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

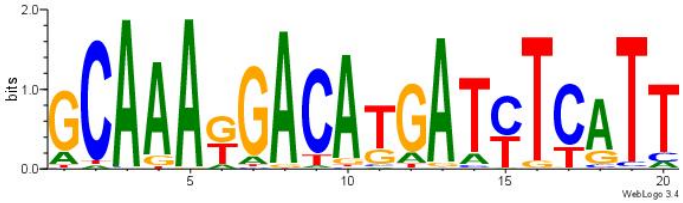

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

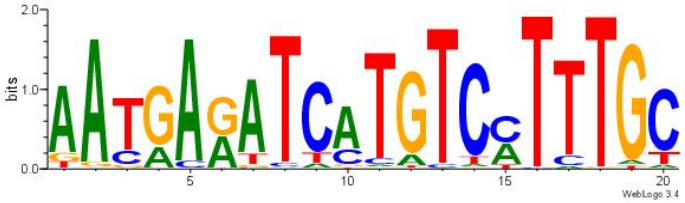

Dataset #:	1

Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.111865

Alignment:

```
GTGCCAGGCACTGTKCTARG
------TTACAGGCTCATA-
```

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

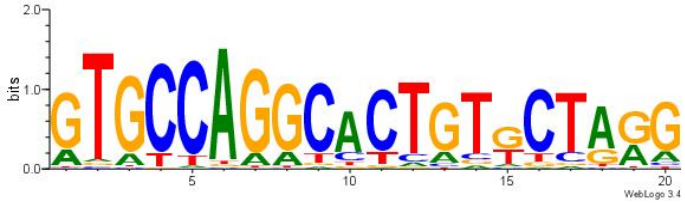

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

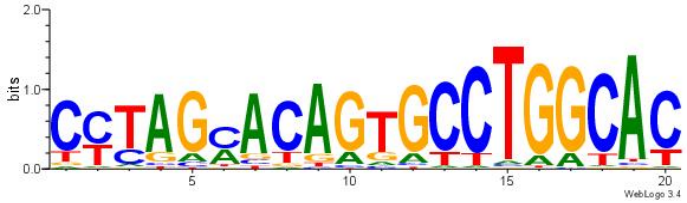

Dataset #:	1
Motif ID:	141
Motif name:	Motif 141
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.112159

Alignment:
AAGGTCCATGTAG
TATGAGCCTGTAA

Original motif Consensus sequence: AAGGTCCATGTAG

Reverse complement motif Consensus sequence: CTACATGGACCTT

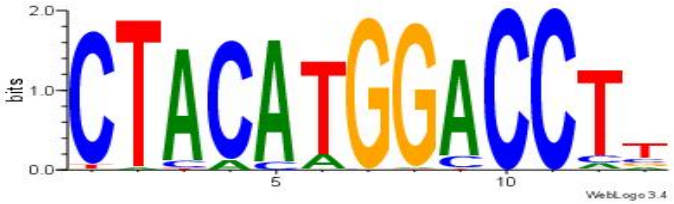

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.1122

Alignment:
GACTGGCAGGCAGCTCCACC
----TTACAGGCTCATA---

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

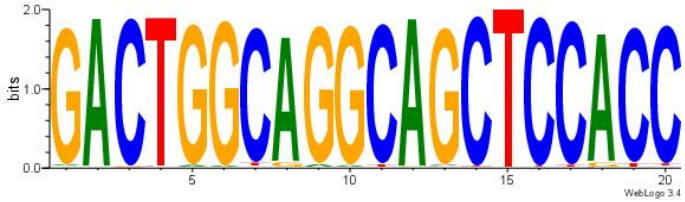

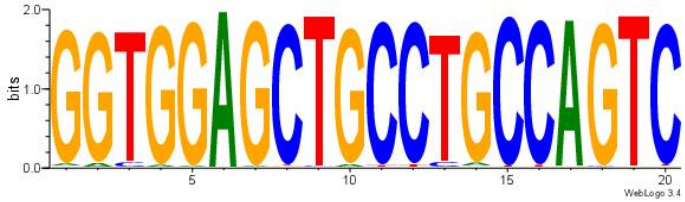

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.112306

Alignment:

```
TGTGTGTGTGTKTGTGTGT
--TATGAGCCTGTAA----
```

Original motif Consensus sequence: ACACACAYACACACACACA

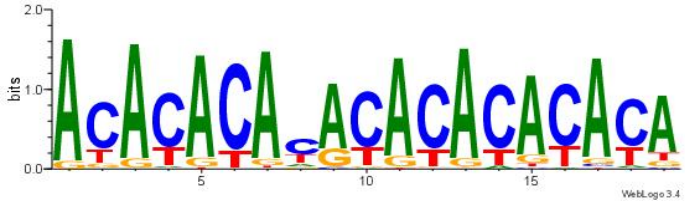

Reverse complement motif Consensus sequence: TGTGTGTGTGTKTGTGTGT

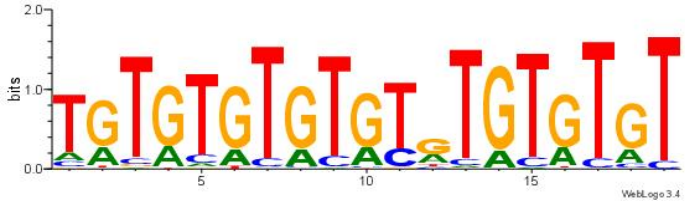

Dataset #:	1

Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.112352

Alignment:

```
TACCTGAGACTGGGTAATTT
------TTACAGGCTCATA-
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

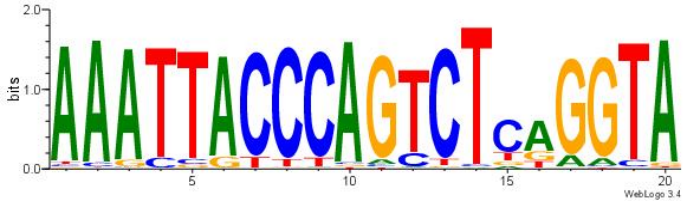

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

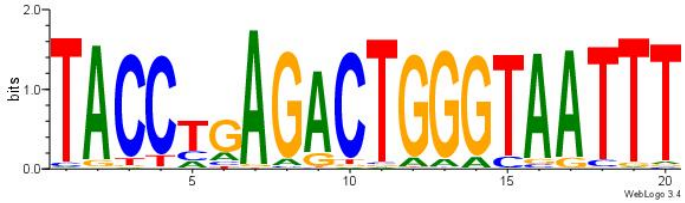

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.112413

Alignment:
ATGTGGAGGTGGAAGACAGT
------TATGAGCCTGTAA-

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

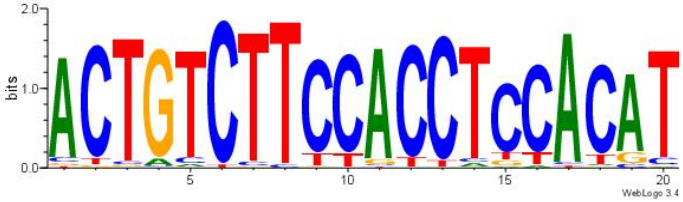

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

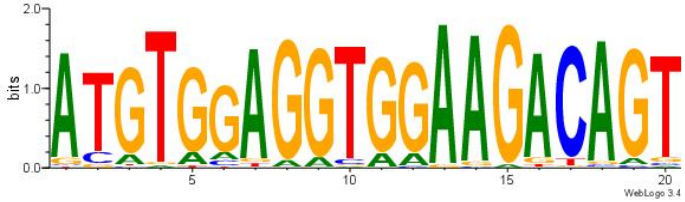

Dataset #: 1
Motif ID: 284
Motif name: Motif 284
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.112599

Alignment:
TCAATGGGCTCCCAAATG
---TATGAGCCTGTAA--

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

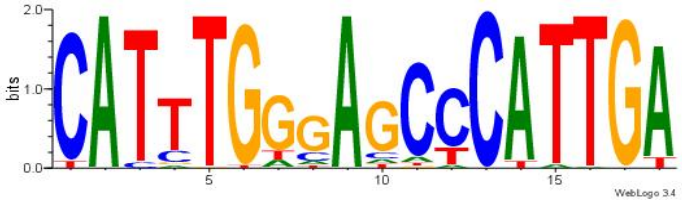

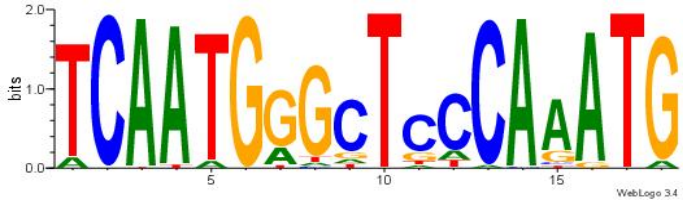

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.112716

Alignment:

```
TGGAGAACCTTTATGTCTAG
------TATGAGCCTGTAA-
```

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

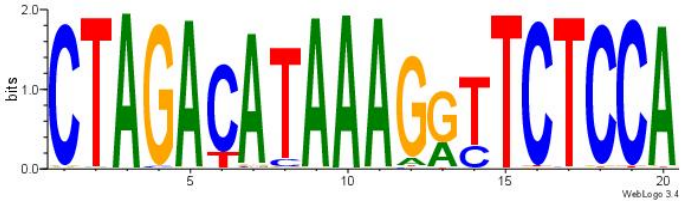

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

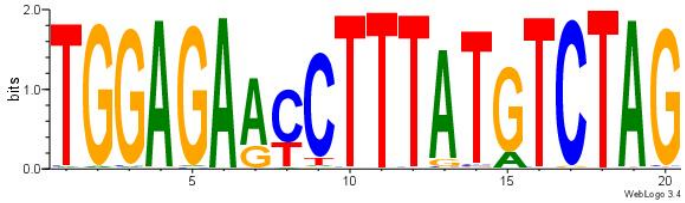

Dataset #:	1

Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.112956

Alignment:

```
TTGGTAGGATCCGTGATGCC
---TATGAGCCTGTAA----
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

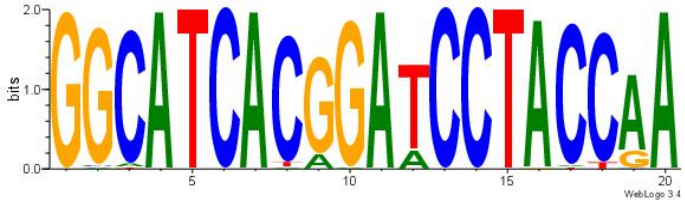

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

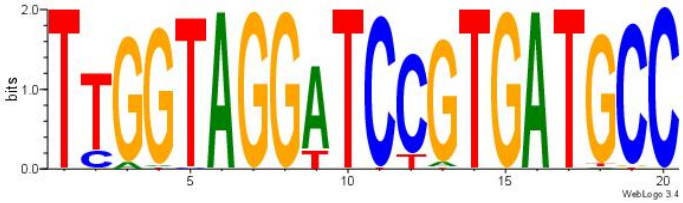

Dataset #:	1
Motif ID:	45
Motif name:	Motif 45
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.113016

Alignment:
TGCCCAGTCTGGAAAGTG
-TATGAGCCTGTAA----

Original motif Consensus sequence: TGCCCAGTCTGGAAAGTG

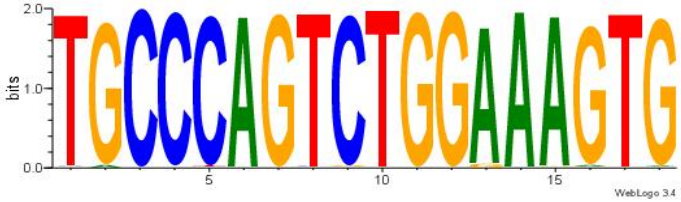

Reverse complement motif Consensus sequence: CACTTTCCAGACTGGGCA

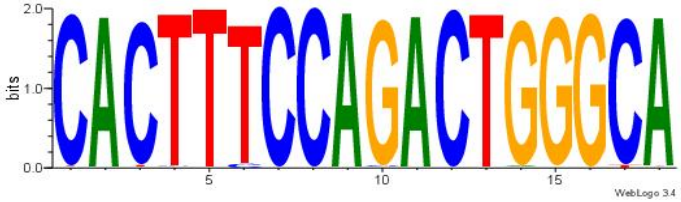

Dataset #:	1
Motif ID:	313
Motif name:	Motif 313
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.113081

Alignment:
CTCCTGCCTCAGCY
-TTACAGGCTCATA

Original motif Consensus sequence: CTCCTGCCTCAGCY

Reverse complement motif Consensus sequence: MGCTGAGGCAGGA

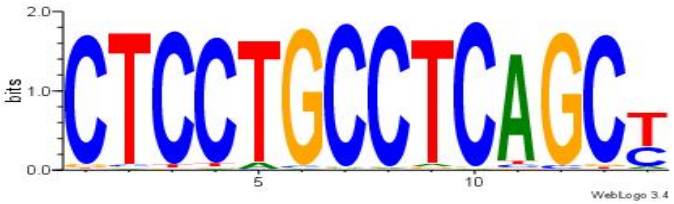

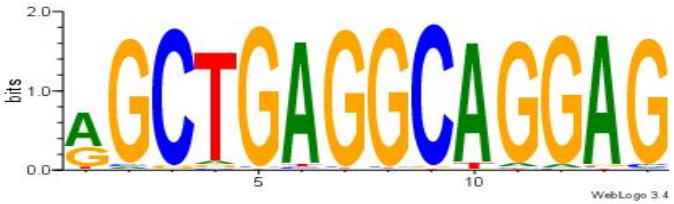

Dataset #:	1
Motif ID:	248
Motif name:	Motif 248
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.113172

Alignment:

```
TAATGGGTACAAA
TTACAGGCTCATA
```

Original motif Consensus sequence: TAATGGGTACAAA

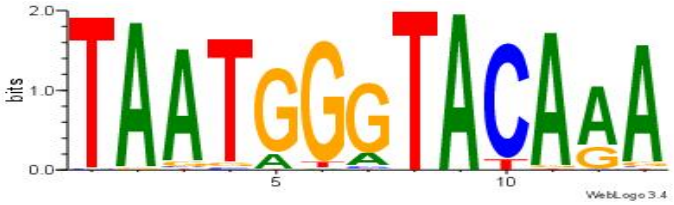

Reverse complement motif Consensus sequence: TTTGTACCCATTA

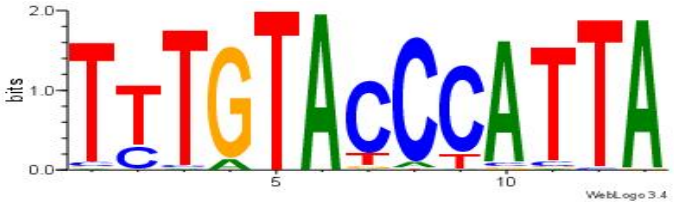

Dataset #:	1
Motif ID:	230

Motif name:	Motif 230
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.113231

Alignment:

```
AGAAAGGCATGTGAAAA
-TATGAGCCTGTAA---
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

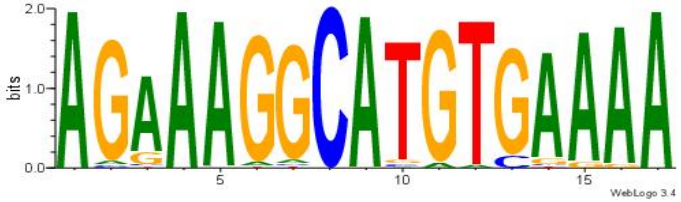

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

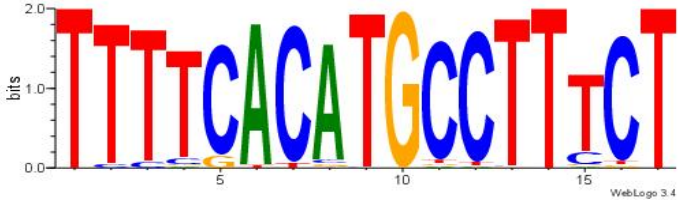

Dataset #:	1
Motif ID:	299
Motif name:	Motif 299
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.113341

Alignment:
CCCTGCTAGAACCTCCAA
-----TATGAGCCTGTAA

Original motif Consensus sequence: CCCTGCTAGAACCTCCAA

Reverse complement motif Consensus sequence:
TTGGAGGTTCTAGCAGGG

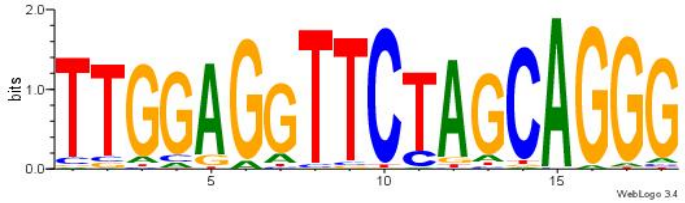

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.113859

Alignment:
ATTCAASATGAGATTTGGG
TTACAGGCTCATA------

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence:
ATTCAASATGAGATTTGGG

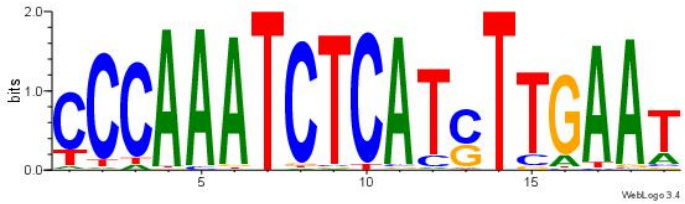

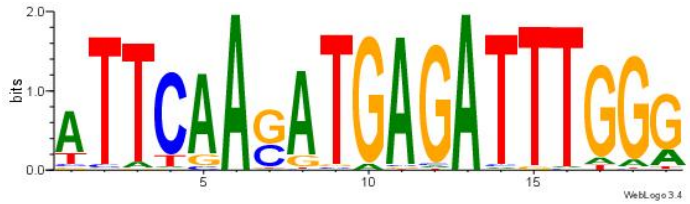

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.114448

Alignment:

```
CTCCCAGCCGCCTG
-TTACAGGCTCATA
```

Original motif Consensus sequence: CAGGCGGCTGGGAG

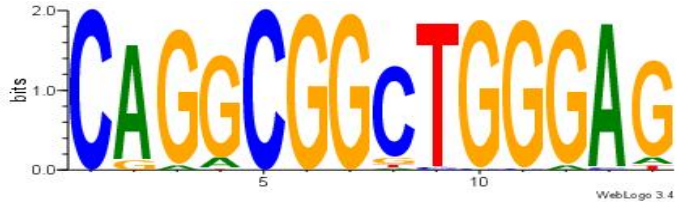

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

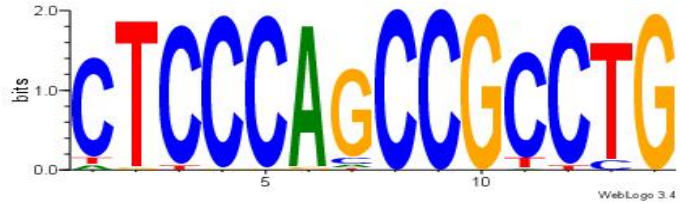

Dataset #:	1
Motif ID:	63

Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.114626

Alignment:

```
AGTGAGAACATRYRRTRTTT
--TATGAGCCTGTAA-----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

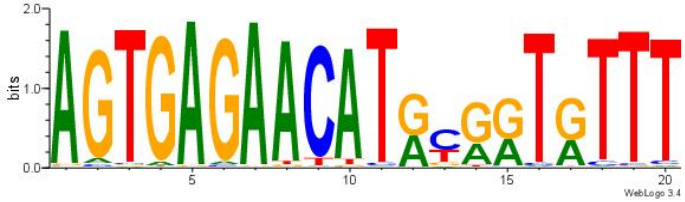

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

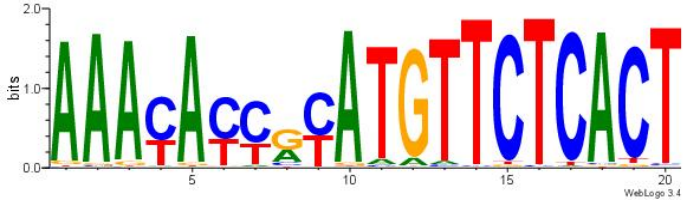

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.114708

Alignment:
CAAASCKGTCATAGGCCAT
TTACAGGCTCATA------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

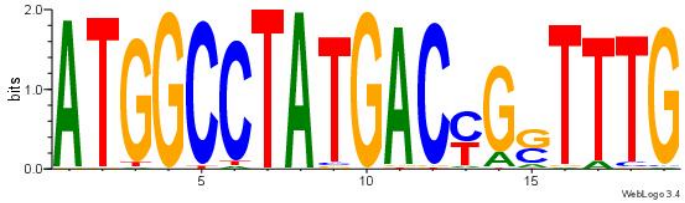

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

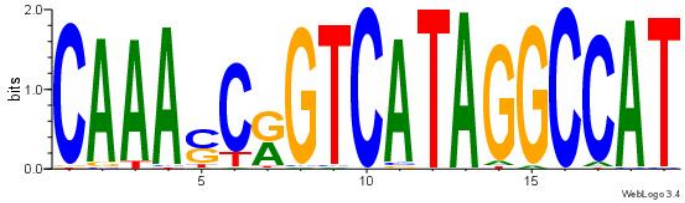

Dataset #:	1
Motif ID:	328
Motif name:	Motif 328
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.114853

Alignment:
GATACAAAATCAATGTR
---TTACAGGCTCATA-

Original motif Consensus sequence: GATACAAAATCAATGTR

Reverse complement motif Consensus sequence:
KACATTGATTTTGTATC

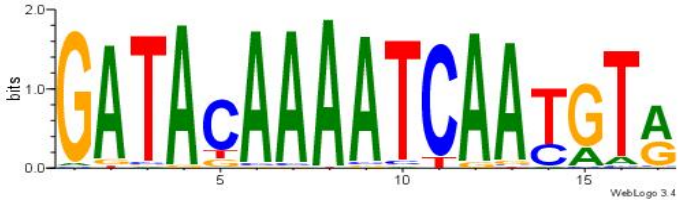

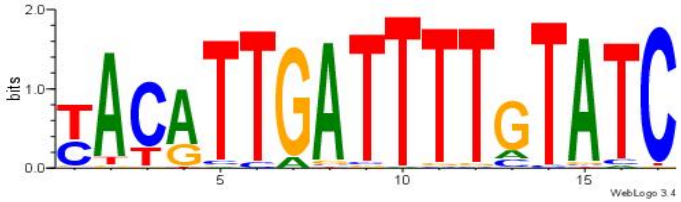

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.115971

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
-------TTACAGGCTCATA
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

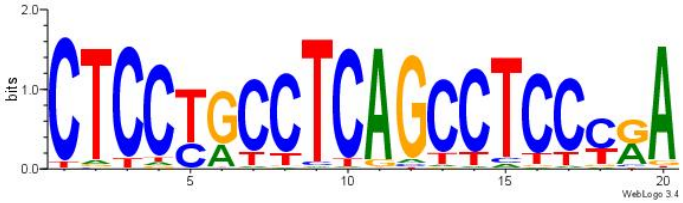

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

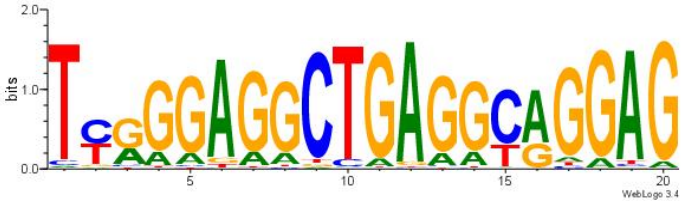

Dataset #:	1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.116674

Alignment:

```
ATCTGACAGGAGGYRGAGCT
----TTACAGGCTCATA---
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

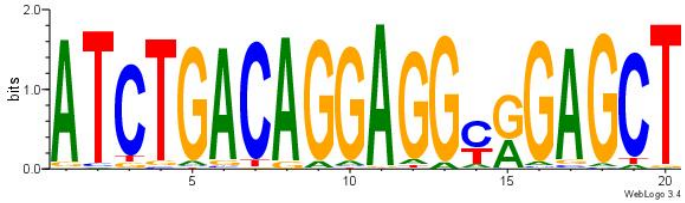

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

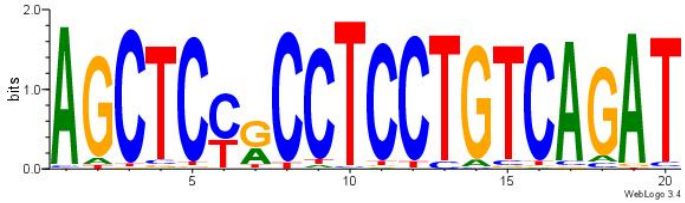

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.116825

Alignment:
ATCRCTTGAGSYCAGGAGKT
----TATGAGCCTGTAA---

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

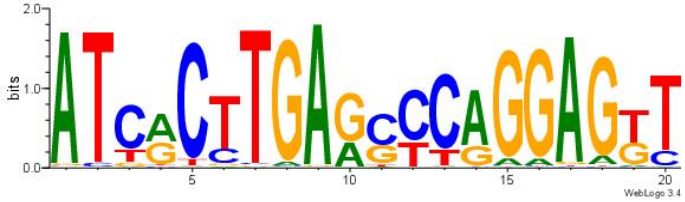

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

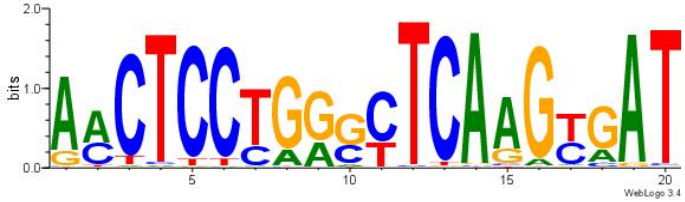

Dataset #: 1
Motif ID: 21
Motif name: Motif 21
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.117392

Alignment:
GCCGTTTKTTAAGCCCGTY
TTACAGGCTCATA------

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

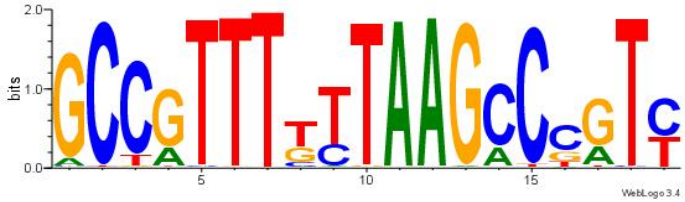

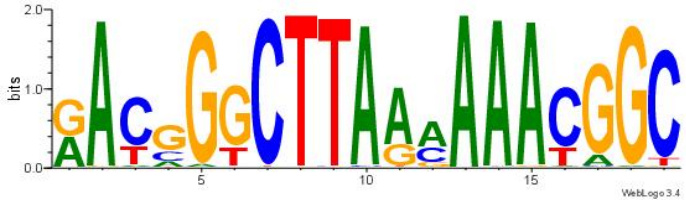

Dataset #: 1 Motif ID: 356 Motif name: Motif 356

Original motif Consensus sequence: AATTAAAAGACACAGACTG

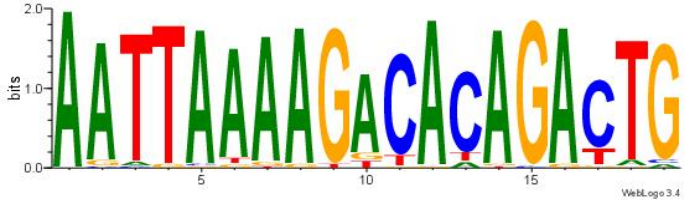

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

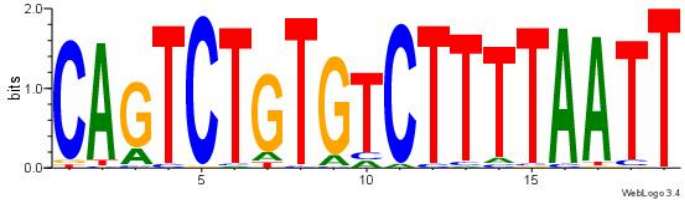

Best Matches for Motif ID 356 (Highest to Lowest)

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.10357

Alignment:

TAGATAATAGCTCCAGCTTT
-AATTAAAAGACACAGACTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

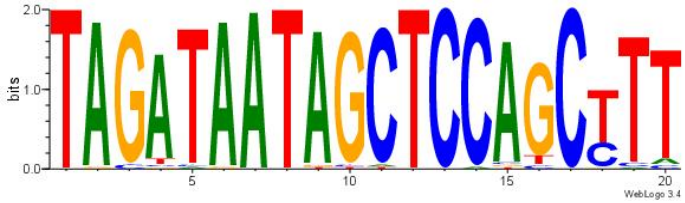

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

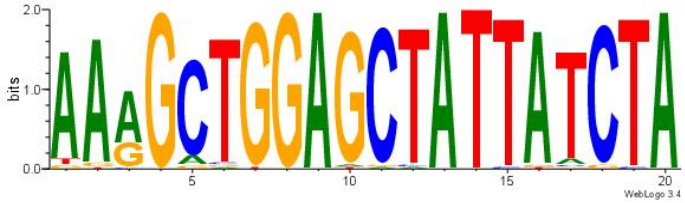

Dataset #:	1
Motif ID:	357
Motif name:	Motif 357
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.10942

Alignment:
TAATTTTATGTGTCAACTTG
-AATTAAAAGACACAGACTG

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

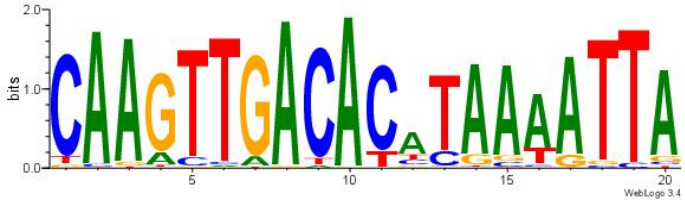

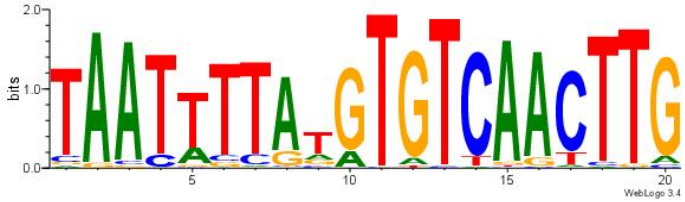

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.110112

Alignment:

```
AGTTGTAATTGGGAGACTT
AATTAAAAGACACAGACTG
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

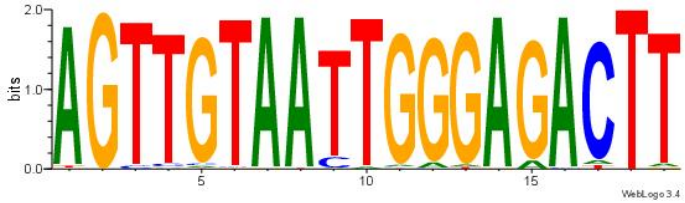

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

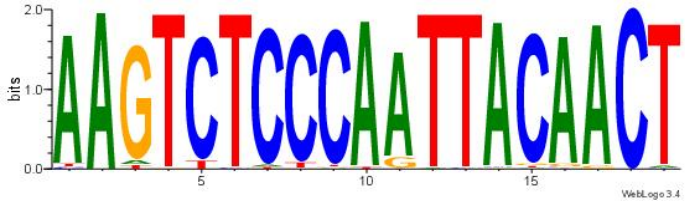

Dataset #:	1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.113248

Alignment:

```
GAGAGAGAGAGAGAGAGAGA
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

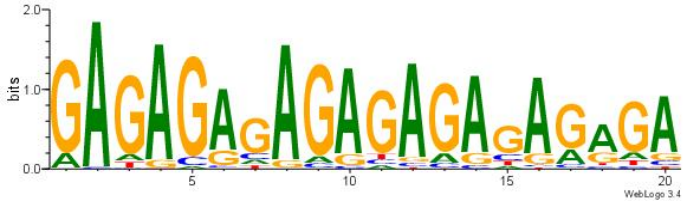

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

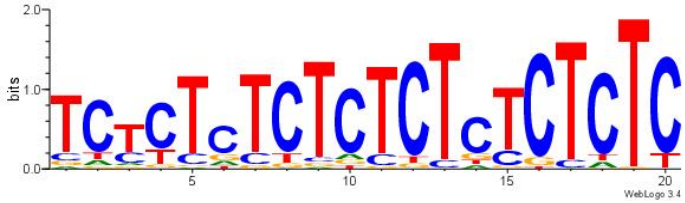

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.115507

Alignment:
CAGGTGGTKTTTGGTTACAT
CAGTCTGTGTCTTTTAATT-

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

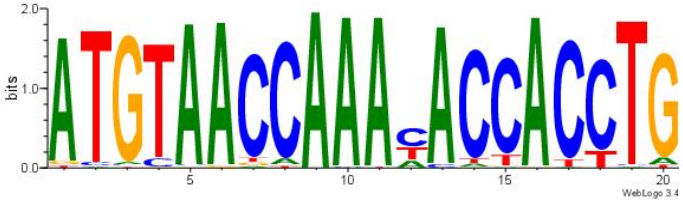

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

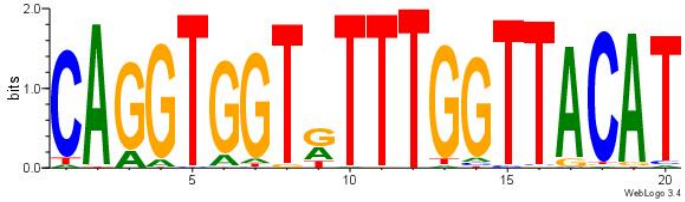

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.115797

Alignment:
KKCACCTTGATCTTGGACTT
-CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

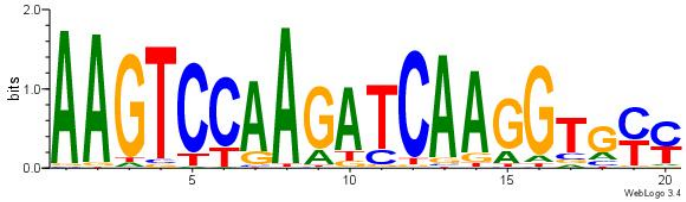

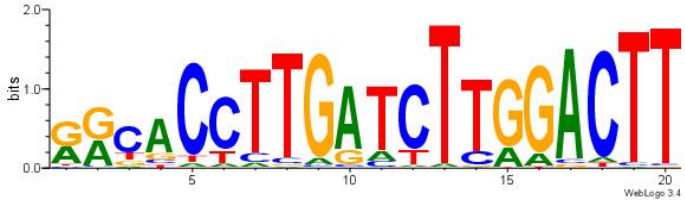

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.116853

Alignment:

```
ATGTGGAGGTGGAAGACAGT
-AATTAAAAGACACAGACTG
```

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

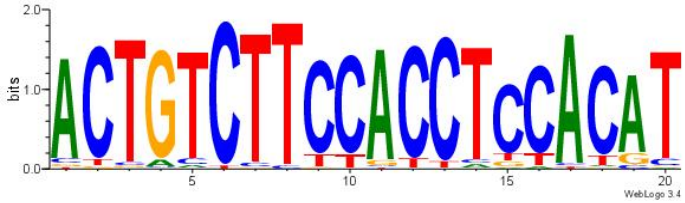

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

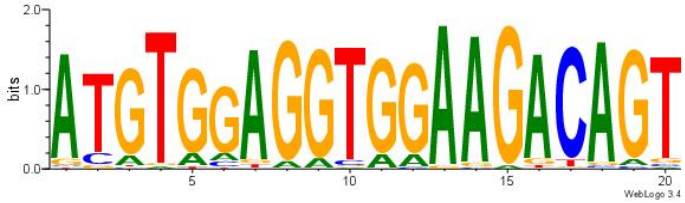

Dataset #:	1

Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.117824

Alignment:

```
MTCCTCCAGACCCCAGAATG
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

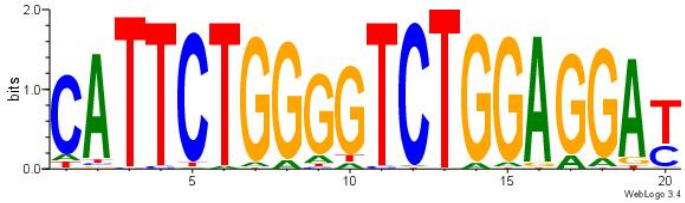

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

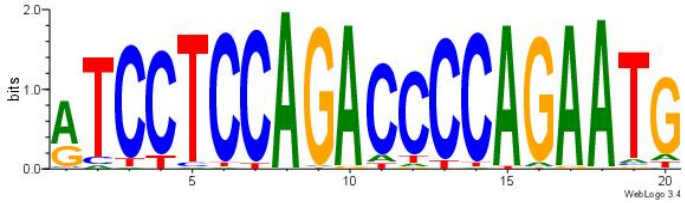

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.118198

Alignment:
AGTGAGAACATRYRRTRTTT
AATTAAAAGACACAGACTG-

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

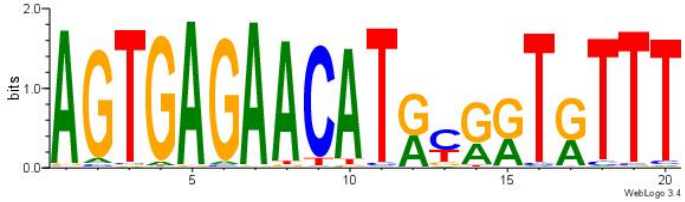

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

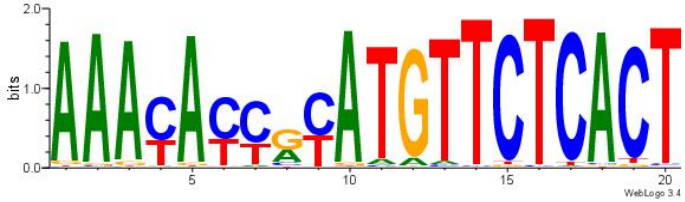

Dataset #: 1
Motif ID: 16
Motif name: Motif 16
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.125256

Alignment:
GAAAGGGAACTCCCTGACCC
-AATTAAAAGACACAGACTG

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

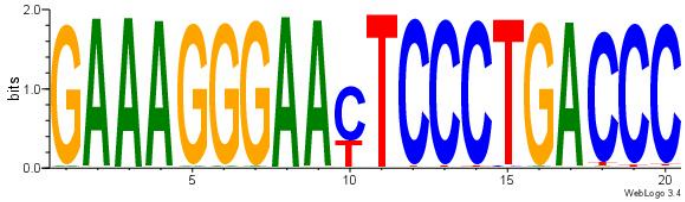

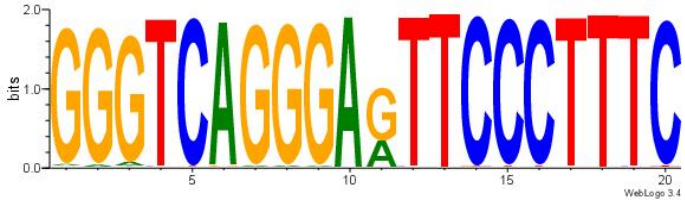

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.125456

Alignment:

```
TAAAAGACTACAWATTGGGT
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

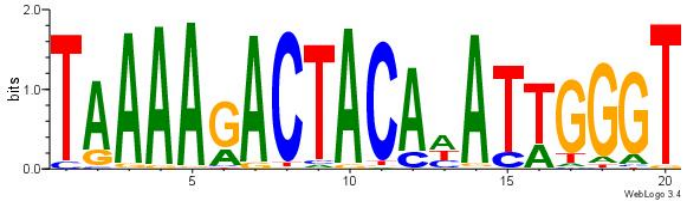

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

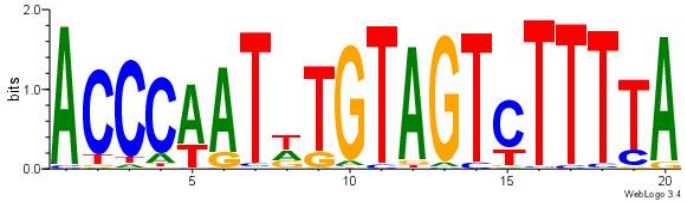

Dataset #:	1

Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.127366

Alignment:

```
AAAATGTGGTAYATAYAYAC
-AATTAAAAGACACAGACTG
```

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

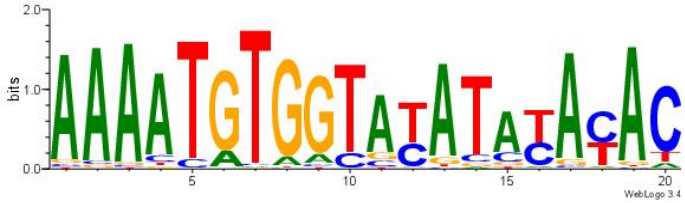

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

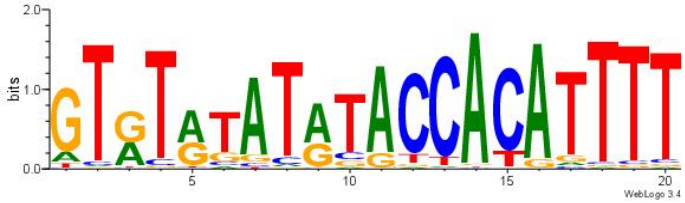

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.127515

Alignment:
CGGCTTCATTCTTGAAGTC
CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

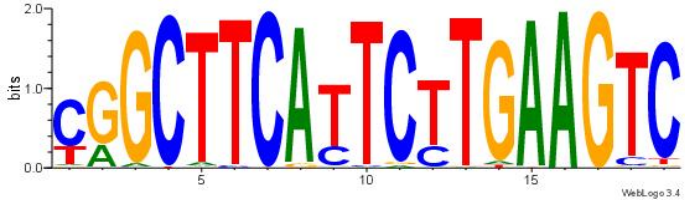

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.127805

Alignment:
AAGGAACAAACTCCRGACAC
-AATTAAAAGACACAGACTG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

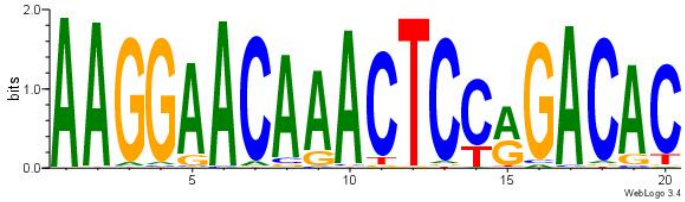

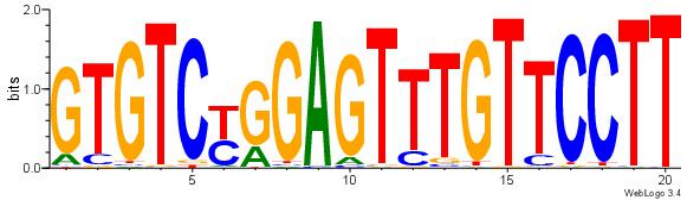

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.131203

Alignment:

```
ATCTGACAGGAGGYRGAGCT
-AATTAAAAGACACAGACTG
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

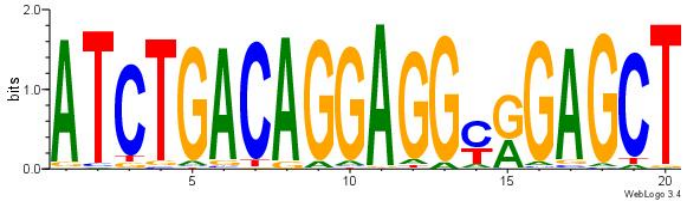

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

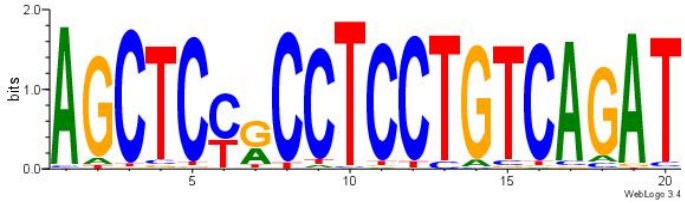

Dataset #:	1

Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.131801

Alignment:
AGATGCCAGCCAGAGCTCT
AATTAAAAGACACAGACTG

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

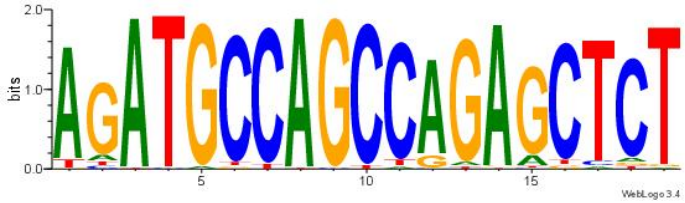

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

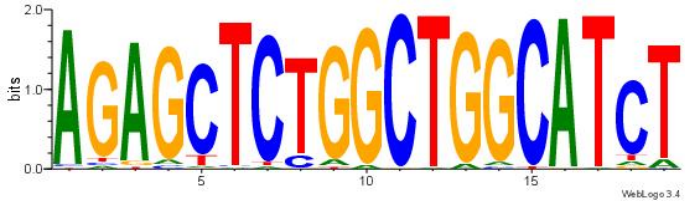

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.132321

Alignment:
AAGTTCTKGGKTACATGTGC
AATTAAAAGACACAGACTG-

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

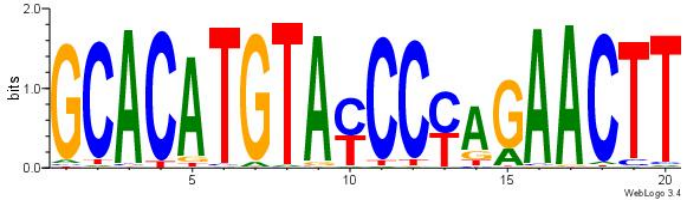

Reverse complement motif Consensus sequence:
AAGTTCTKGGKTACATGTGC

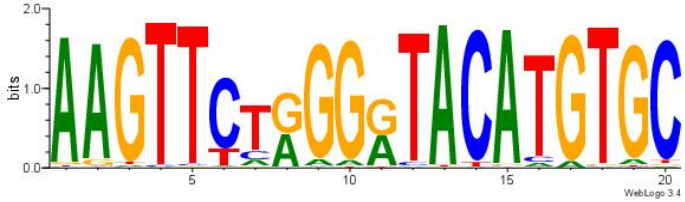

Dataset #: 1
Motif ID: 7
Motif name: Motif 7
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.132655

Alignment:
GTCTCWAMAAAAAAWAMAAA
AATTAAAAGACACAGACTG-

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

Reverse complement motif Consensus sequence:
TTTYTWTTTTTTYTWGAGAC

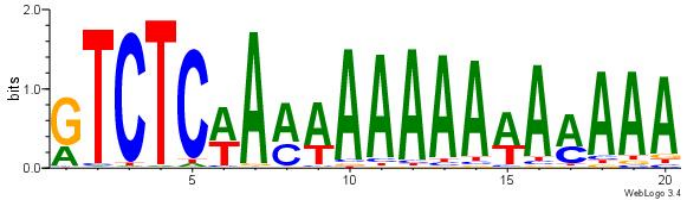

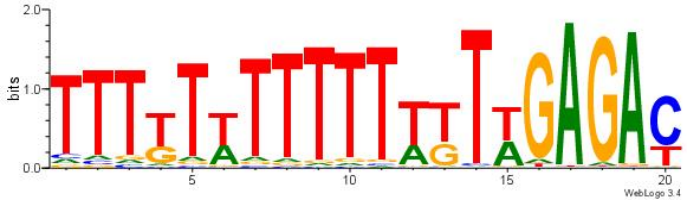

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.132914

Alignment:

```
AAAATCACAAGCATTCCTAT
CAGTCTGTGTCTTTTAATT-
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

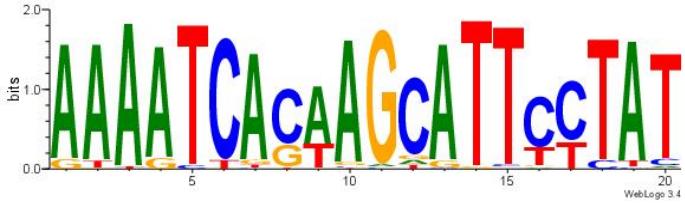

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

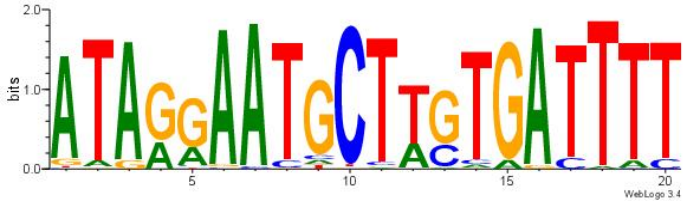

Dataset #:	1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.133045

Alignment:

```
TAGTGGTGATTTSTGAGAT
CAGTCTGTGTCTTTTAATT
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

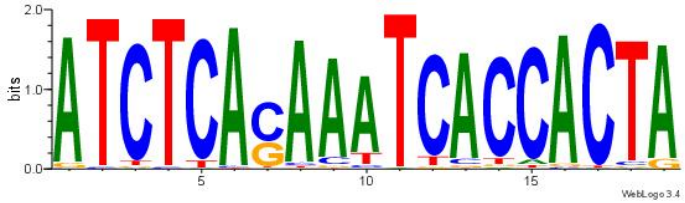

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

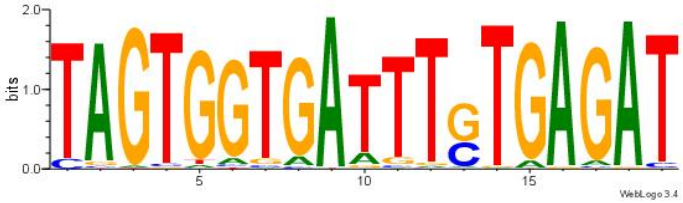

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.133103

Alignment:
CGCCCATCGTCTGGGATGT
CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

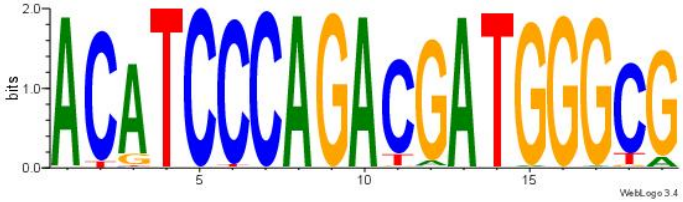

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

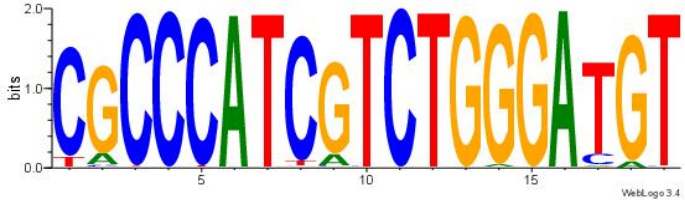

Dataset #: 1
Motif ID: 99
Motif name: Motif 99
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.133238

Alignment:
GCAAAKGACATGATYTCATT
CAGTCTGTGTCTTTTAATT-

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

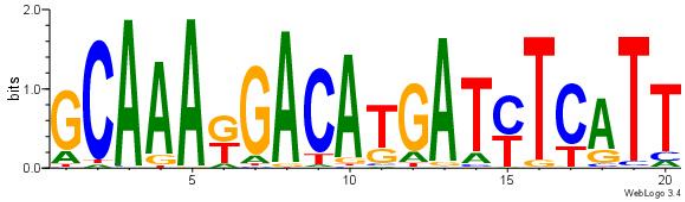

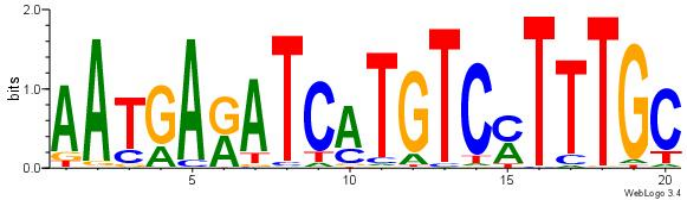

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.133609

Alignment:

```
CTTTCTGGGCTGGCCAAGG
CAGTCTGTGTCTTTTAATT
```

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

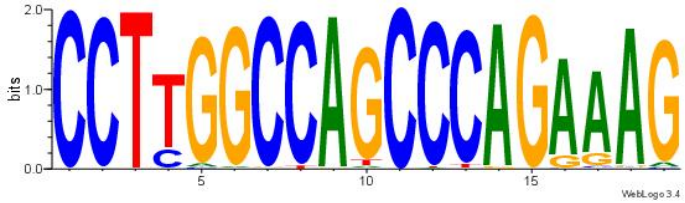

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

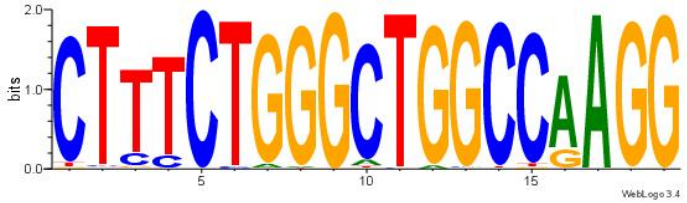

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.1346

Alignment:

```
AAGCTGAGGGAGCCGGCTCC
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

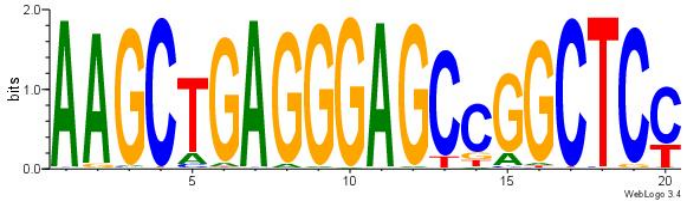

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

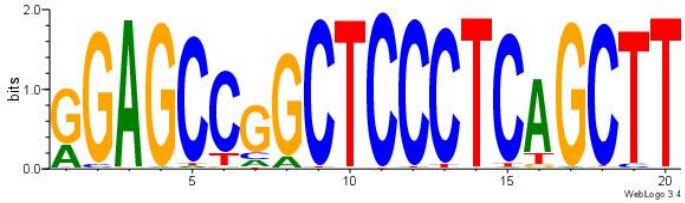

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.135027

Alignment:
GGATTTMKGACTTGCATGGG
CAGTCTGTGTCTTTTAATT-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

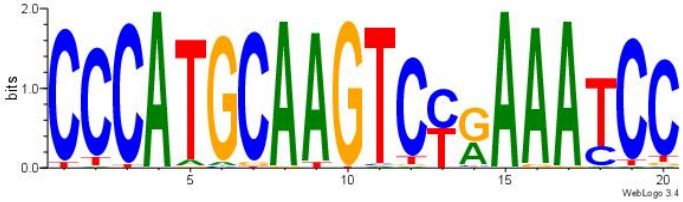

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

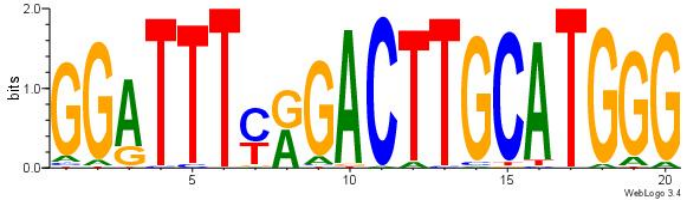

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.135032

Alignment:
CAAGCCTSKGCAATGGCAGG
-CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

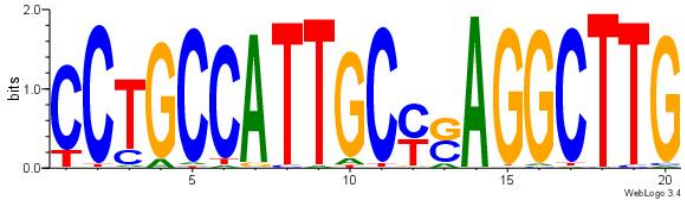

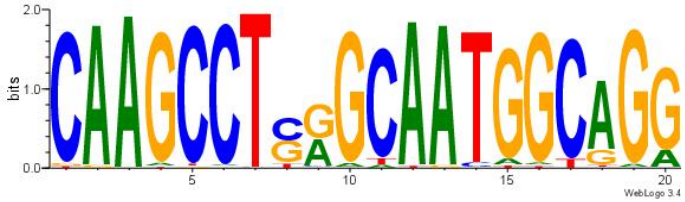

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.136405

Alignment:

```
GCTGTGTGACCTTGGGCAAG
CAGTCTGTGTCTTTTAATT-
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

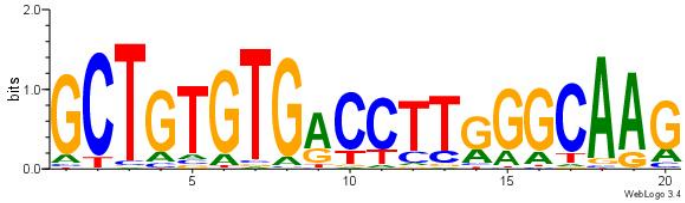

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

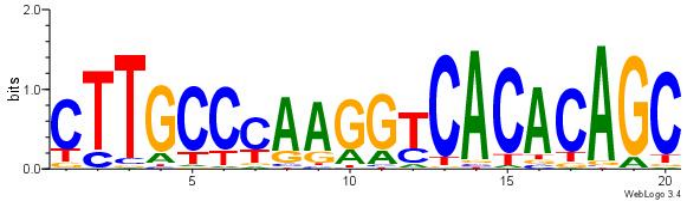

Dataset #:	1

Motif ID:	55
Motif name:	Motif 55
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.137211

Alignment:

```
ATGGCTGAATAKTATTCCAT
CAGTCTGTGTCTTTTAATT-
```

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

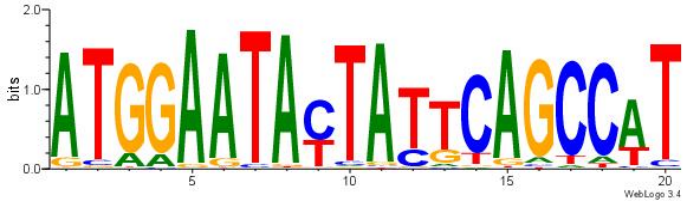

Reverse complement motif Consensus sequence: ATGGCTGAATAKTATTCCAT

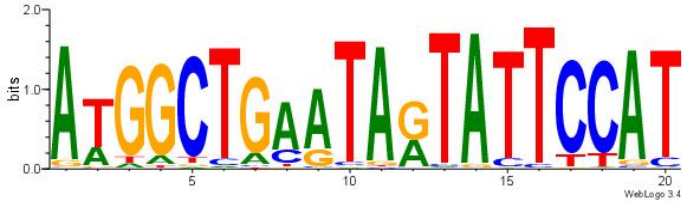

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.137883

Alignment:
TWTACCTATGTAACAAACCT
AATTAAAAGACACAGACTG-

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

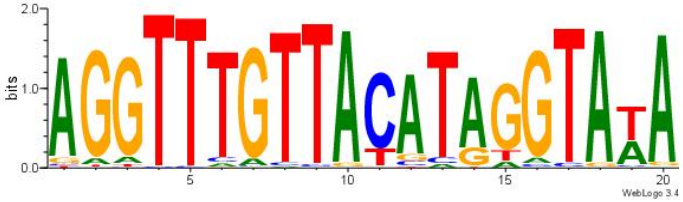

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

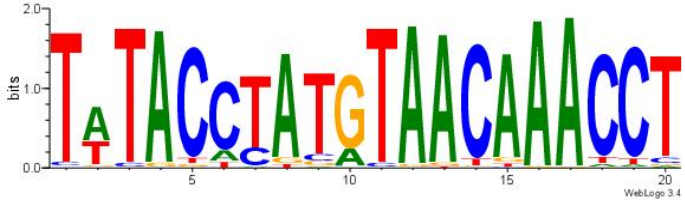

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.139178

Alignment:
ATGGACAYTTRGGTTGHTTC
-CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

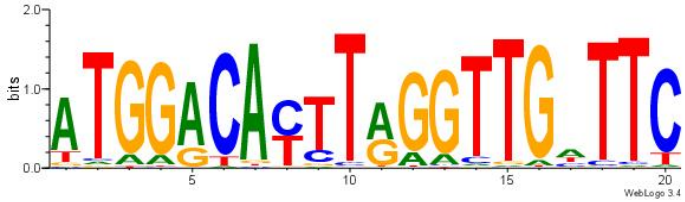

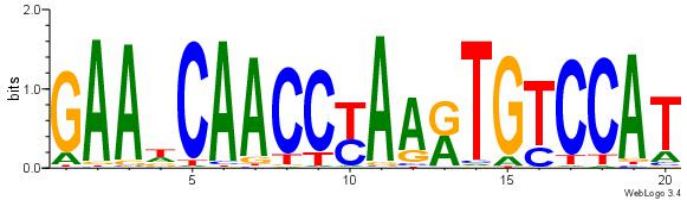

Dataset #:	1
Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.139381

Alignment:

```
GTTATTAATTGGCCTAATTT
CAGTCTGTGTCTTTTAATT-
```

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

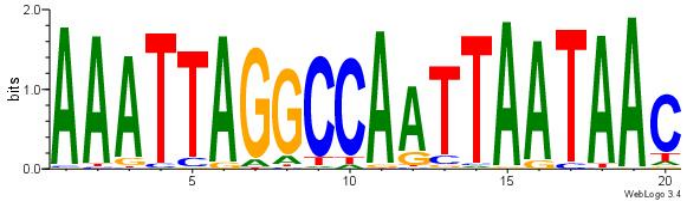

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #: 1

Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.140373

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
-CAGTCTGTGTCTTTTAATT
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

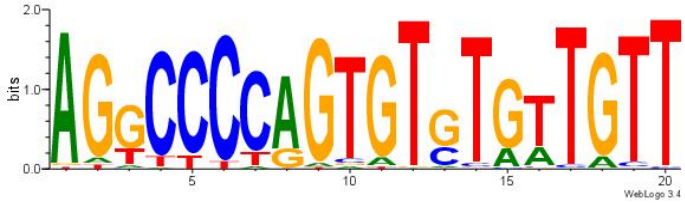

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

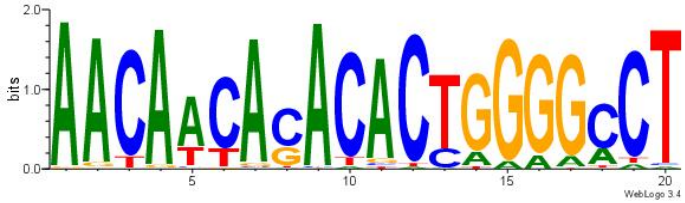

Dataset #:	1
Motif ID:	294
Motif name:	Motif 294
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

Similarity score: 0.142118

Alignment:
AGCTGTGAGAAGAGGGCCAC
AATTAAAAGACACAGACTG-

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

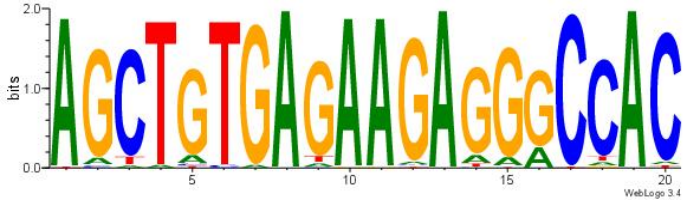

Reverse complement motif Consensus sequence:
GTGGCCCTCTTCTCACAGCT

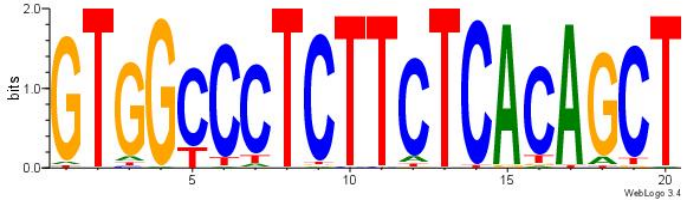

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.142121

Alignment:
CAGCTACTCKTATACCCTTG
CAGTCTGTGTCTTTTAATT-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

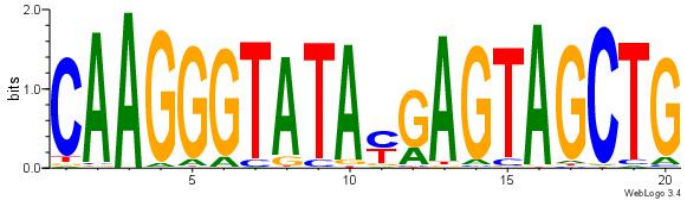

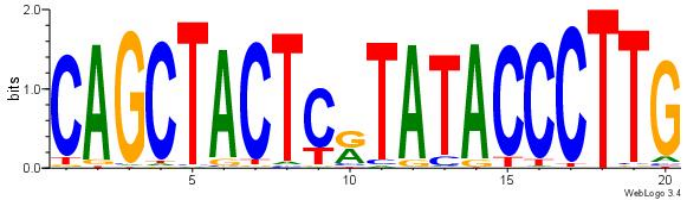

Dataset #:	1
Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.142352

Alignment:

```
AATCAACCCTGGYRATCAAT
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

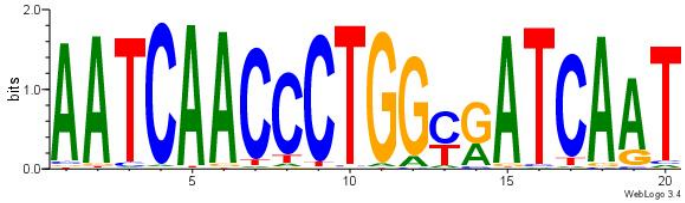

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

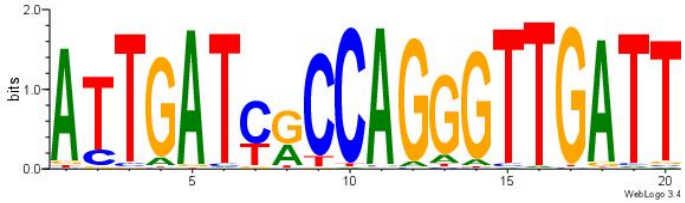

Dataset #:	1

Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19
Similarity score:	0.142377

Alignment:

```
ACACATCACAAAGCAGTTTC
-AATTAAAAGACACAGACTG
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

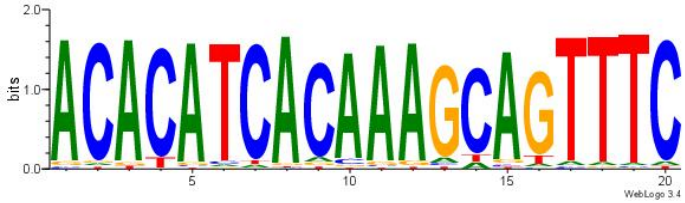

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

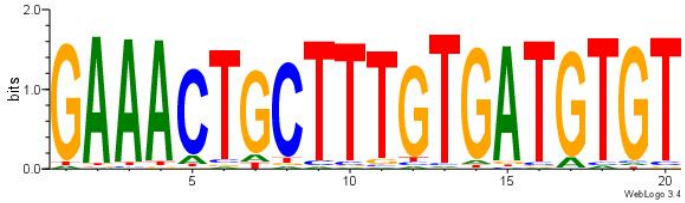

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.142427

Alignment:
CTGGCCCTCAATGGTTAAAC
-CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

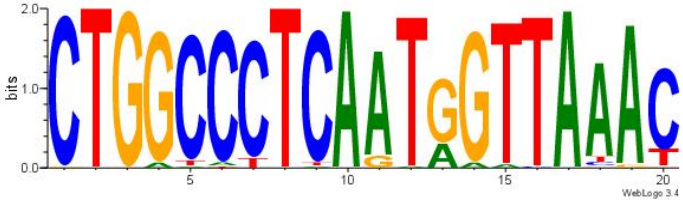

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

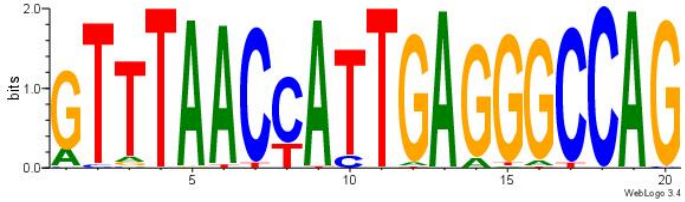

Dataset #: 1
Motif ID: 86
Motif name: Motif 86
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.143317

Alignment:
AGTAGGTGCTCARTAAATRB
AATTAAAAGACACAGACTG-

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

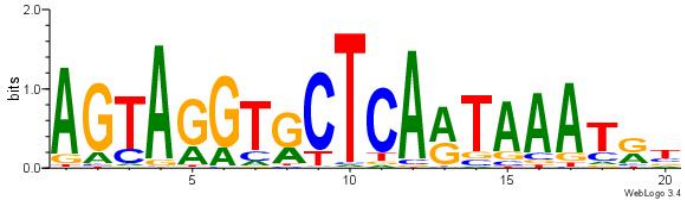

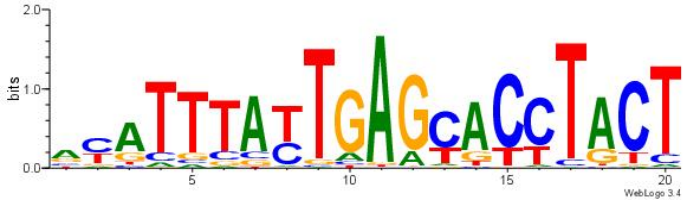

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.144042

Alignment:

```
GAATACCTCCTGAAGGACCT
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

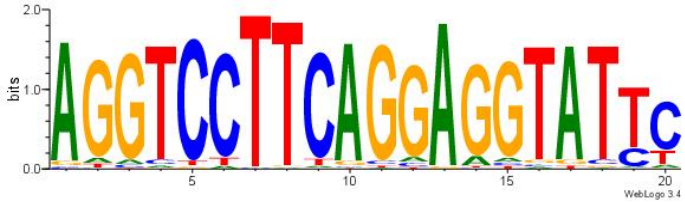

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

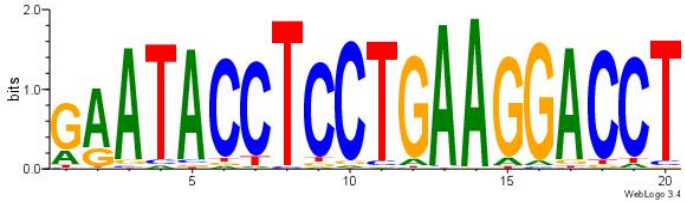

Dataset #:	1

Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.145382

Alignment:

```
GACAGGAGATTAACACTGAG
AATTAAAAGACACAGACTG-
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

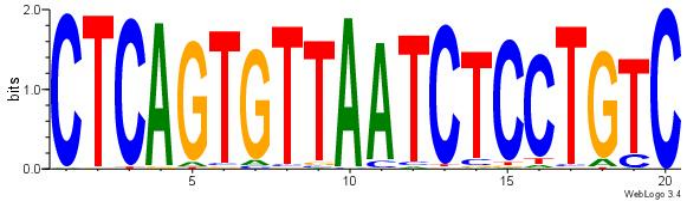

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

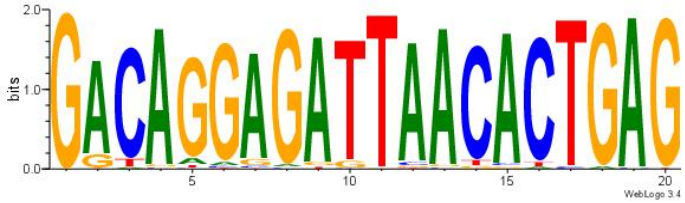

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 0.145931

Alignment:
ARCTCCTGKSCTCAAGKGAT
-AATTAAAAGACACAGACTG

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

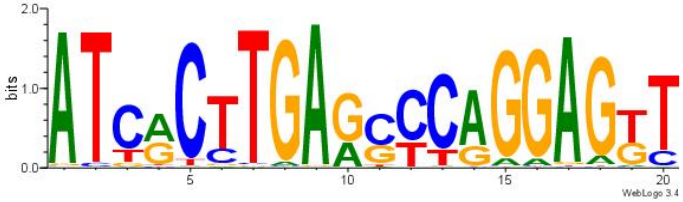

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

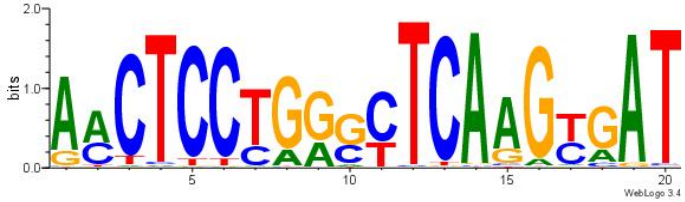

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 19
Similarity score: 0.146376

Alignment:
HAGTGGKATTGCTGGATCAT
CAGTCTGTGTCTTTTAATT-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

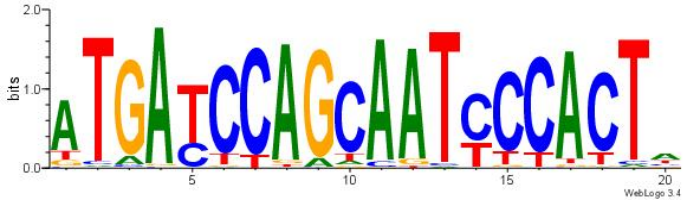

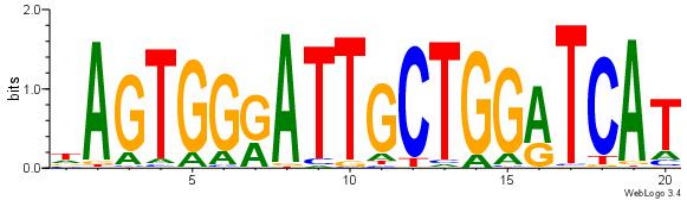

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.146565

Alignment:

```
AGACAGTGGGYGCAGGHCA
AATTAAAAGACACAGACTG
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

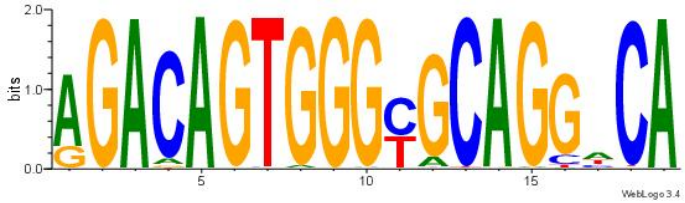

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

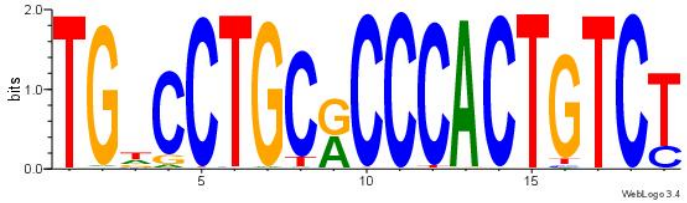

Dataset #:	1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.147461

Alignment:

```
AGTGACCCGATTTTCCAGGT
-CAGTCTGTGTCTTTTAATT
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

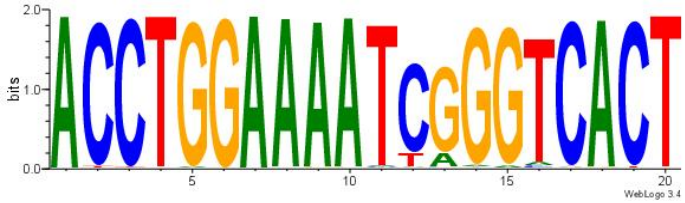

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

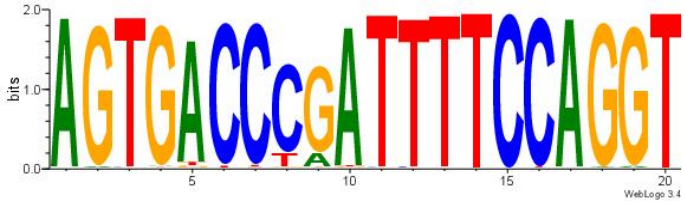

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19

Similarity score: 0.1482

Alignment:
GCCTCCTTGAGCTGTGGTGG
CAGTCTGTGTCTTTTAATT-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

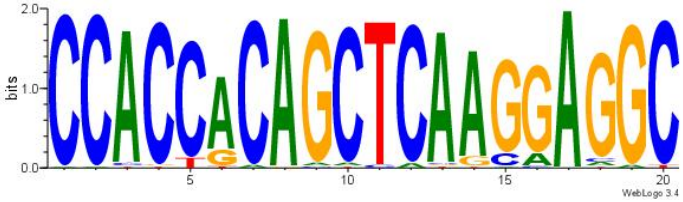

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

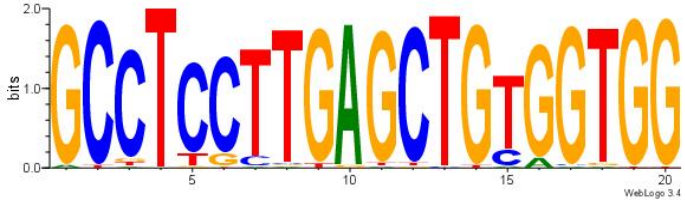

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 0.148285

Alignment:
GTGCCAGGCACTGTKCTARG
-CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

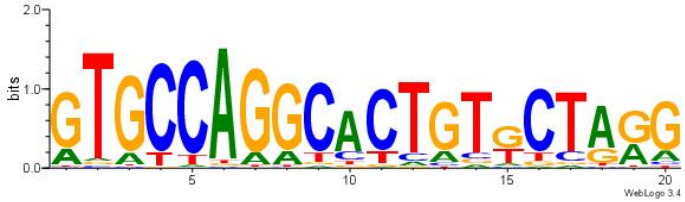

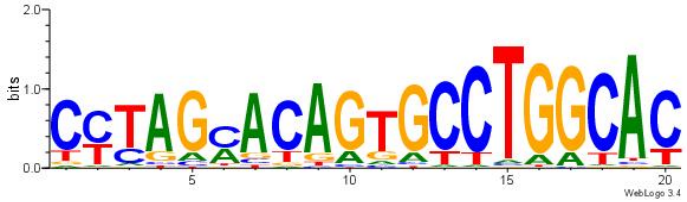

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	0.148411

Alignment:

```
TACCTGAGACTGGGTAATTT
-CAGTCTGTGTCTTTTAATT
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

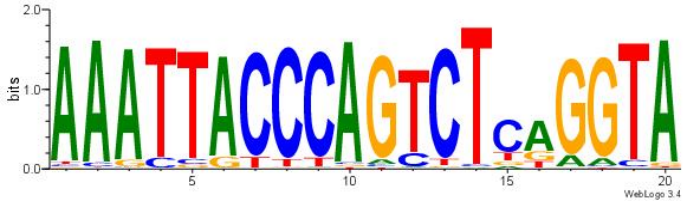

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

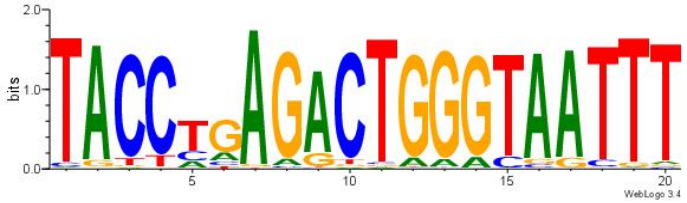

Dataset #: 1

Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.148732

Alignment:

```
CCCGAAGCTGCRYRCTCGGT
CAGTCTGTGTCTTTTAATT-
```

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

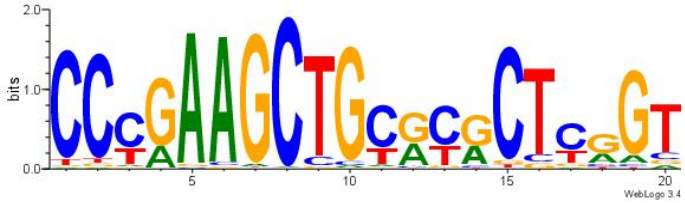

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

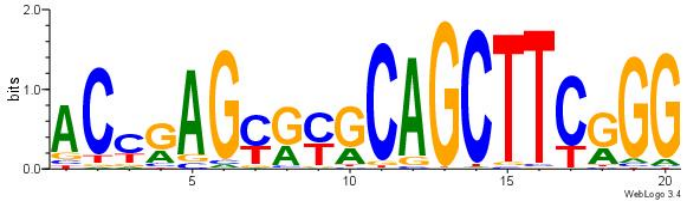

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	19

Similarity score: 0.148799

Alignment:
AWTKKTGGTTKCCAGKGGCT
-CAGTCTGTGTCTTTTAATT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

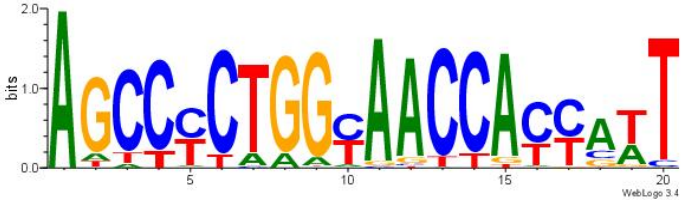

Reverse complement motif Consensus sequence:
AWTKKTGGTTKCCAGKGGCT

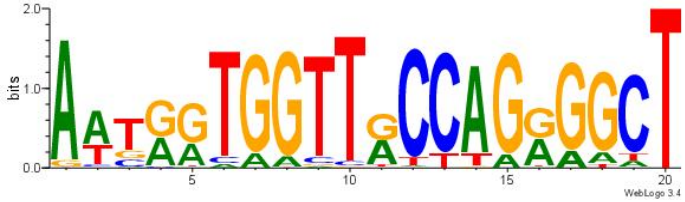

Dataset #: 1
Motif ID: 102
Motif name: Motif 102
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 19
Similarity score: 0.148975

Alignment:
GTTGTGAGGATTAAATGAG
AATTAAAAGACACAGACTG

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

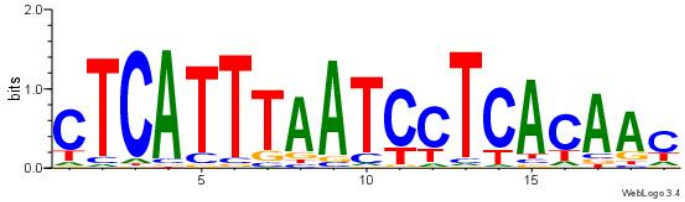

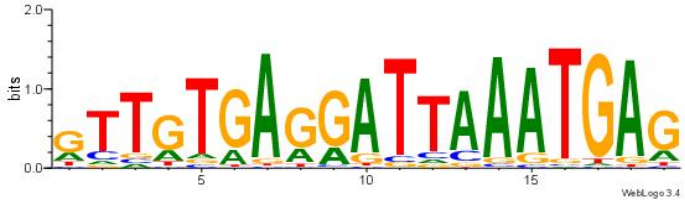

Dataset #: 1 Motif ID: 357 Motif name: Motif 357

Original motif Consensus sequence: CAAGTTGACACATAAAATTA

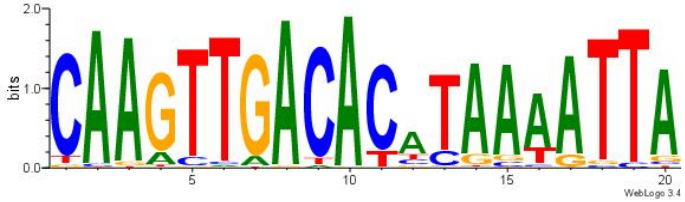

Reverse complement motif Consensus sequence: TAATTTTATGTGTCAACTTG

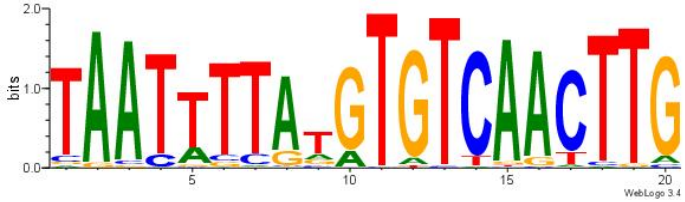

Best Matches for Motif ID 357 (Highest to Lowest)

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114196

Alignment:

GAAACTGCTTTGTGATGTGT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

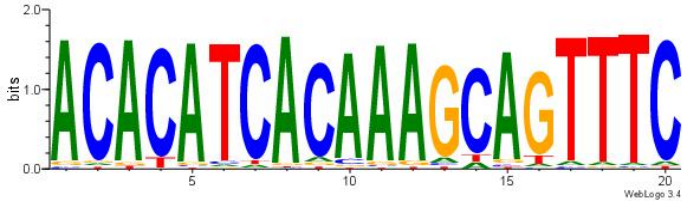

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

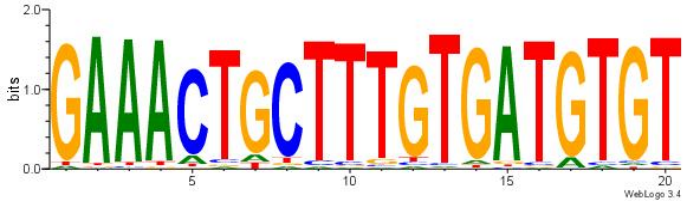

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.114845

Alignment:
TWTACCTATGTAACAAACCT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

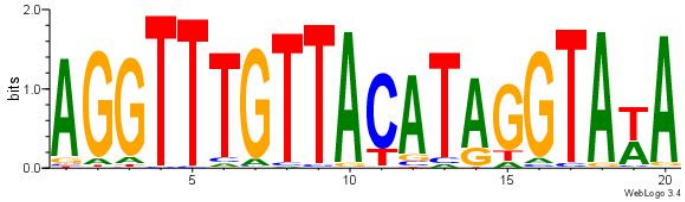

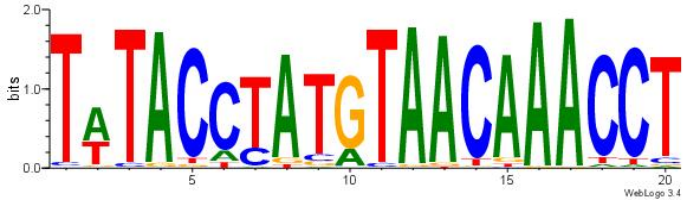

Dataset #:	1
Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.119939

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

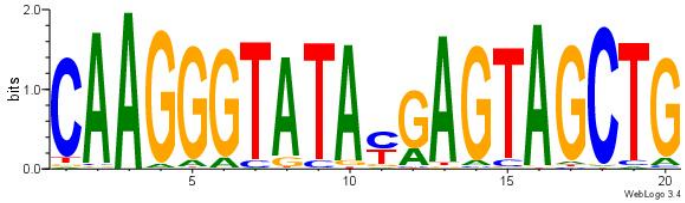

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

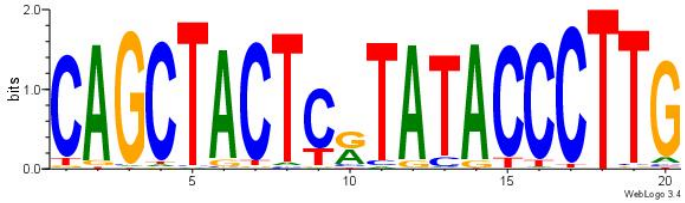

Dataset #: 1

Motif ID:	308
Motif name:	Motif 308
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.120519

Alignment:

GTTATTAATTGGCCTAATTT

TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AAATTAGGCCAATTAATAAC

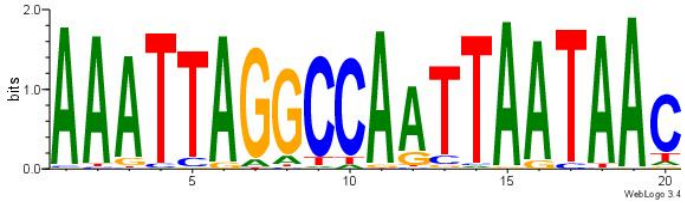

Reverse complement motif Consensus sequence: GTTATTAATTGGCCTAATTT

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.122947

Alignment:
AGTGAGAACATRYRRTRTTT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

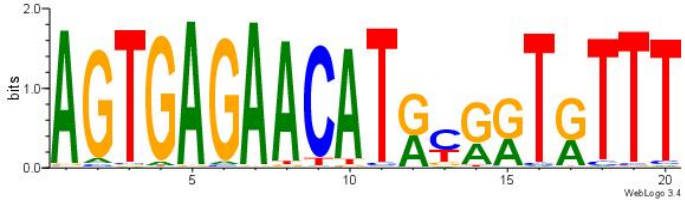

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

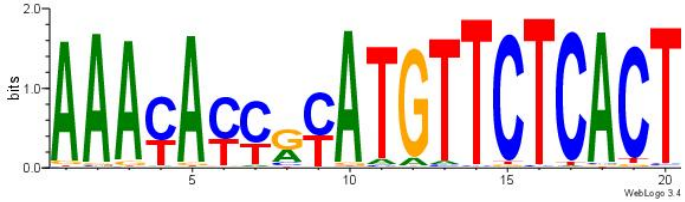

Dataset #: 1
Motif ID: 160
Motif name: Motif 160
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.123813

Alignment:
TACCTGAGACTGGGTAATTT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

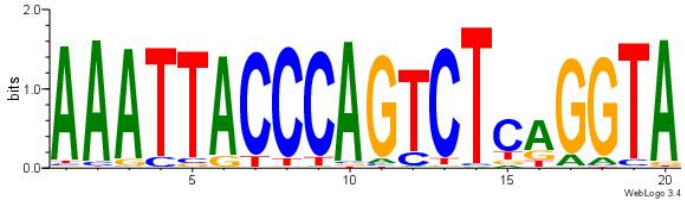

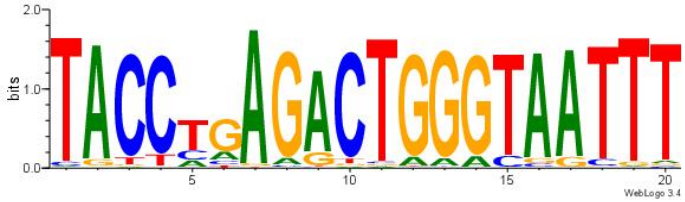

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.125546

Alignment:

```
GCACATGTAYCCYAGAACTT
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

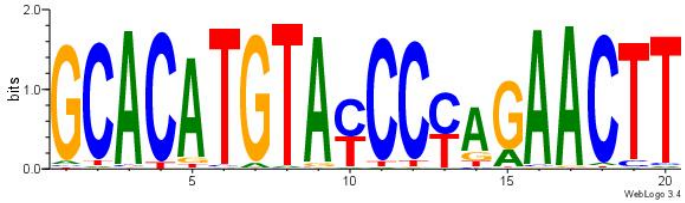

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

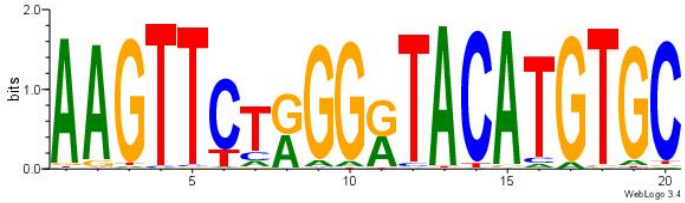

Dataset #: 1

Motif ID:	109
Motif name:	Motif 109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.127591

Alignment:
GAGAGAGAGAGAGAGAGAGA
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: GAGAGAGAGAGAGAGAGAGA

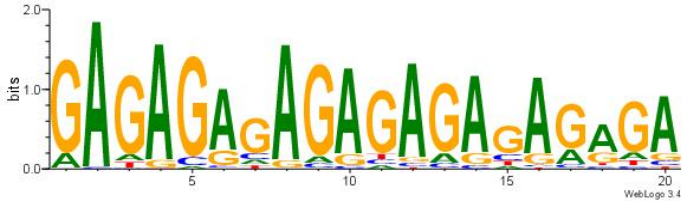

Reverse complement motif Consensus sequence: TCTCTCTCTCTCTCTCTCTC

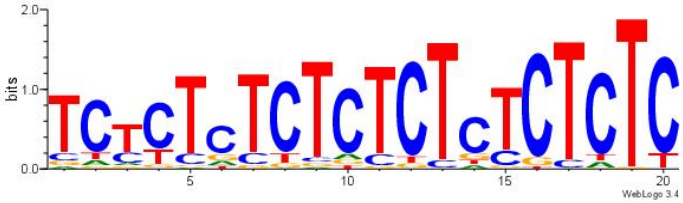

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.127921

Alignment:
TAGATAATAGCTCCAGCTTT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

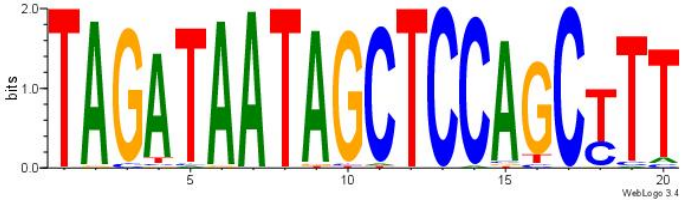

Reverse complement motif Consensus sequence:
AAAGCTGGAGCTATTATCTA

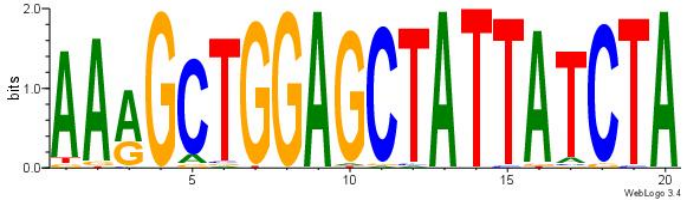

Dataset #: 1
Motif ID: 29
Motif name: Motif 29
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.130221

Alignment:
CTGGGCRACAGAGYRAGACY
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

Reverse complement motif Consensus sequence:
MGTCTMKCTCTGTKGCCCAG

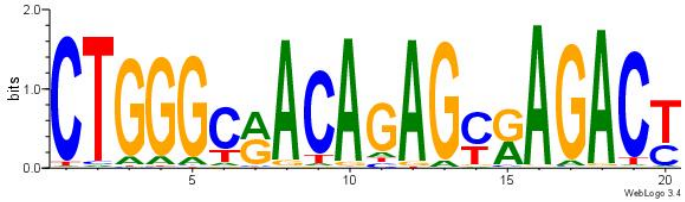

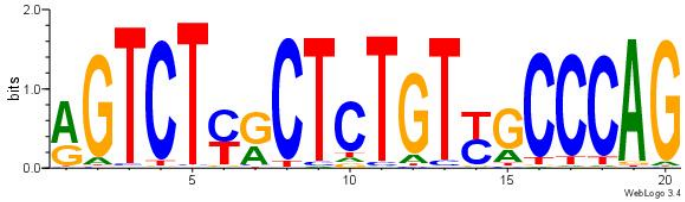

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.130645

Alignment:

```
CCCATGCAAGTCYRAAATCC
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

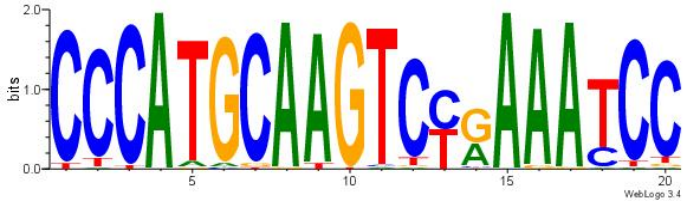

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

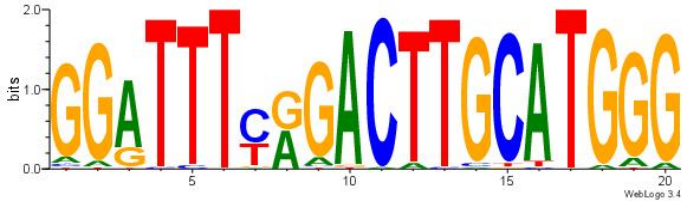

Dataset #:	1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.132113

Alignment:

```
AATGAKATCATGTCYTTTGC
TAATTTTATGTGTCAACTTG
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

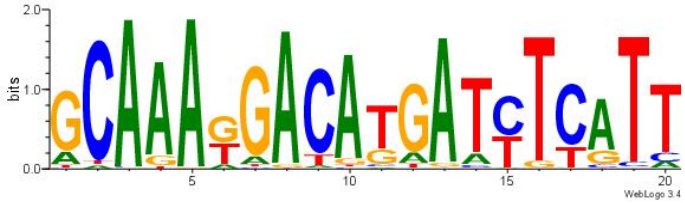

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

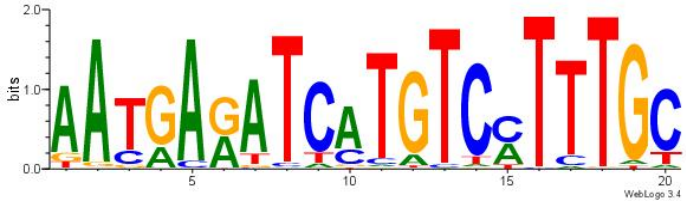

Dataset #:	1
Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.134908

Alignment:
VMATTTAKTGAGCACCTACT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

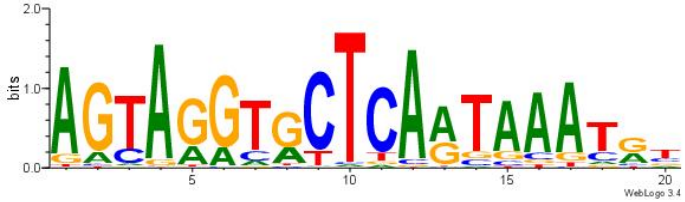

Reverse complement motif Consensus sequence:
VMATTTAKTGAGCACCTACT

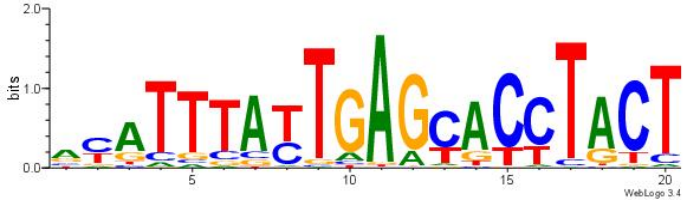

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.135094

Alignment:
CATTCTGGGGTCTGGAGGAY
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

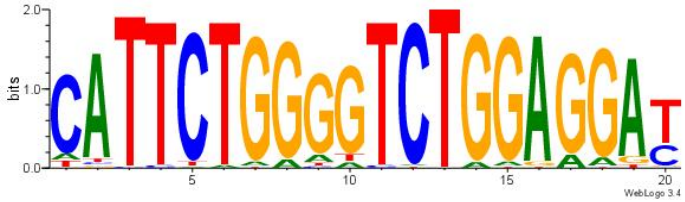

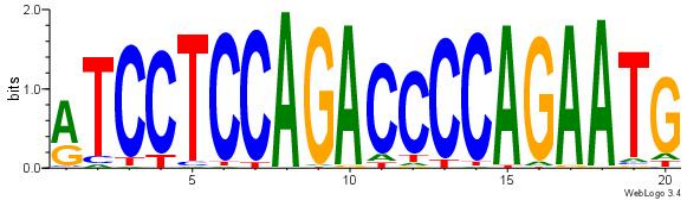

Dataset #:	1
Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.135344

Alignment:

```
AGAGCCAAATCATGARTGAA
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

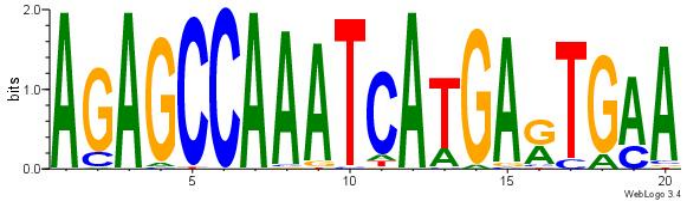

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

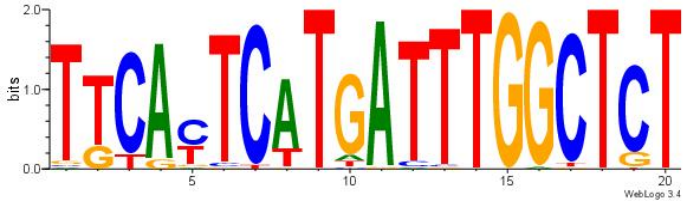

Dataset #:	1

Motif ID:	7
Motif name:	Motif 7
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.138353

Alignment:

```
TTTYTWTTTTTTYTWGAGAC
TAATTTTATGTGTCAACTTG
```

Original motif Consensus sequence: GTCTCWAMAAAAAAWAMAAA

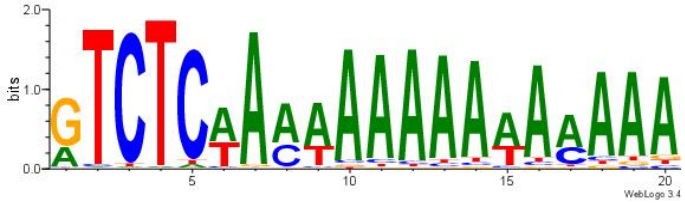

Reverse complement motif Consensus sequence: TTTYTWTTTTTTYTWGAGAC

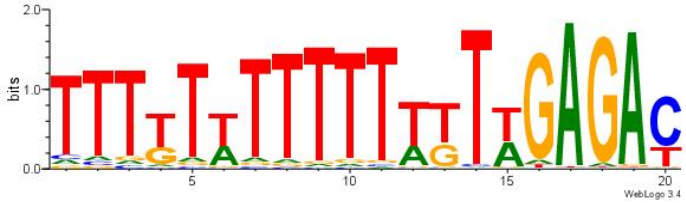

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.140226

Alignment:
ACTTTGGACTGTGGACTTTT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

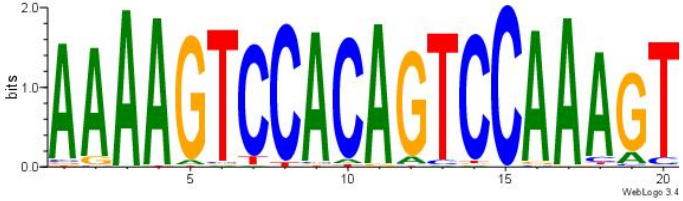

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

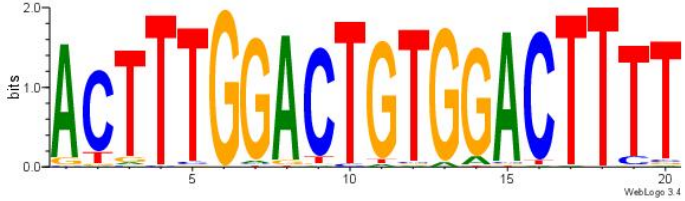

Dataset #: 1
Motif ID: 234
Motif name: Motif 234
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.140636

Alignment:
GTGTCKGGAGTTTGTTCCTT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

Reverse complement motif Consensus sequence:
GTGTCKGGAGTTTGTTCCTT

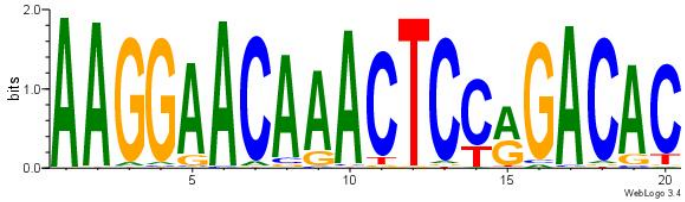

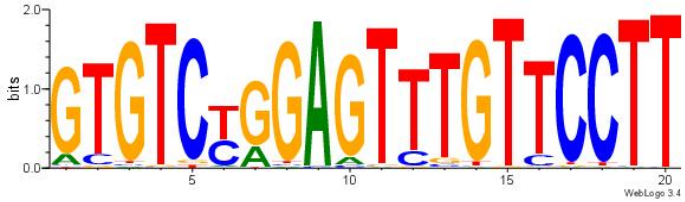

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.140792

Alignment:
TGGCTTCACCCAGTGGATCC
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

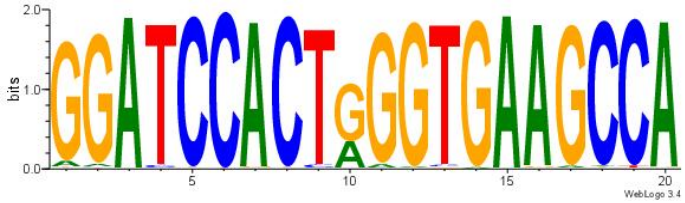

Reverse complement motif Consensus sequence:
TGGCTTCACCCAGTGGATCC

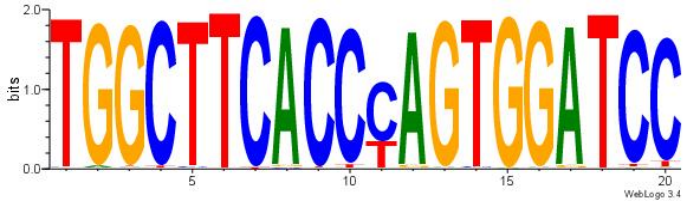

Dataset #: 1

Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.142893

Alignment:

CACCAGGAGATTATATCCCR

CAAGTTGACACATAAAATTA

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

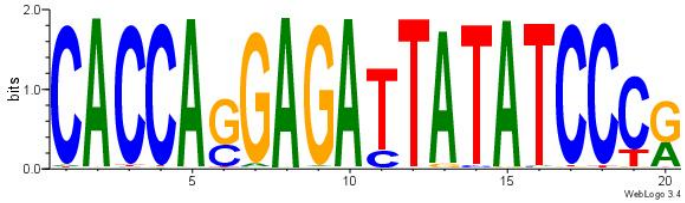

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

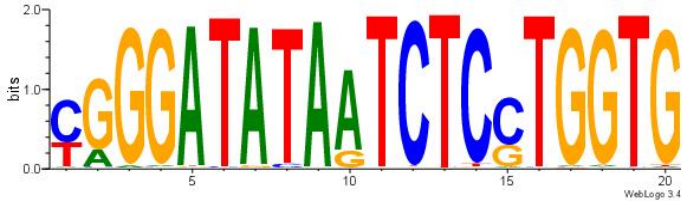

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.142982

Alignment:
HAGTGGKATTGCTGGATCAT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

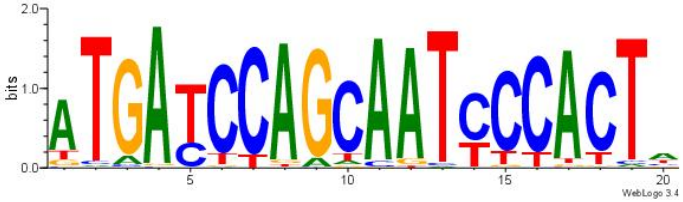

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

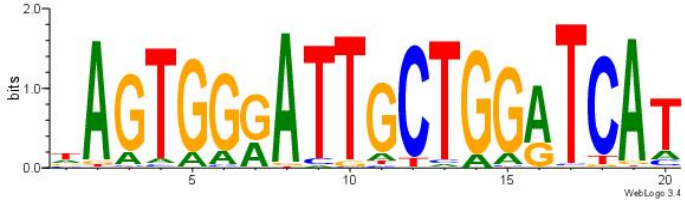

Dataset #: 1
Motif ID: 55
Motif name: Motif 55
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.143151

Alignment:
ATGGCTGAATAKTATTCCAT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: ATGGAATAYTATTCAGCCAT

Reverse complement motif Consensus sequence:
ATGGCTGAATAKTATTCCAT

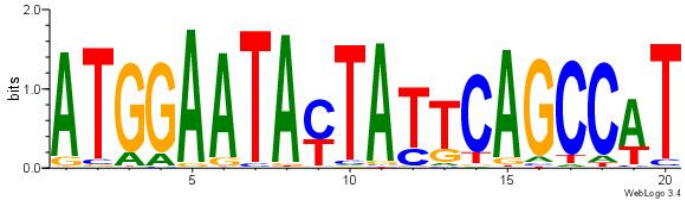

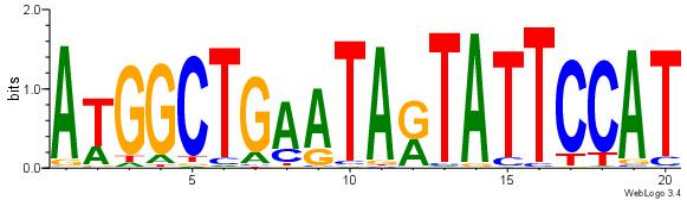

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.143208

Alignment:
TAAAAGACTACAWATTGGGT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

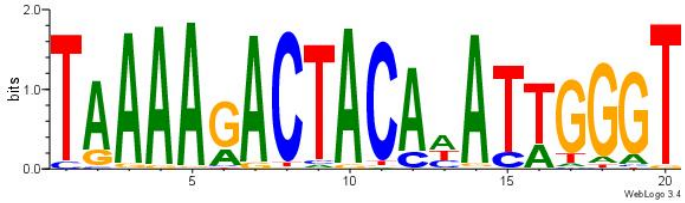

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

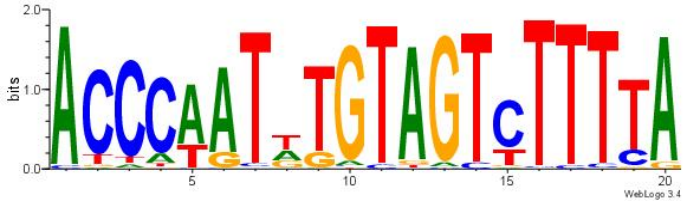

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.144899

Alignment:

AAGCTGAGGGAGCCGGCTCC
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

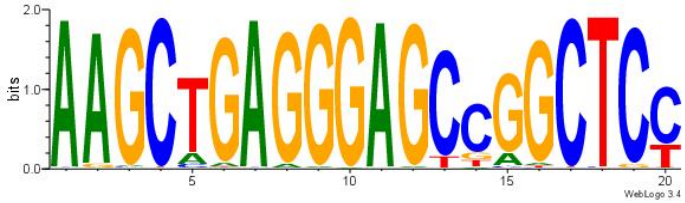

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

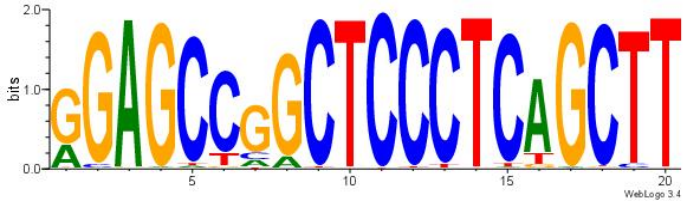

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.145302

Alignment:
GCCAGTCACAAAARGACAMA
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

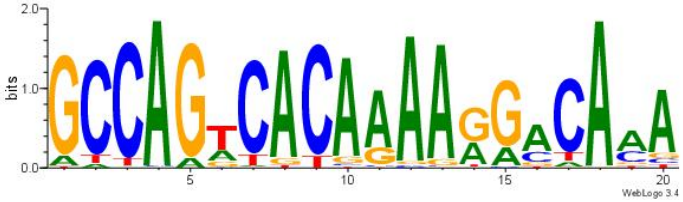

Reverse complement motif Consensus sequence:
TYTGTCMTTTTGTGACTGGC

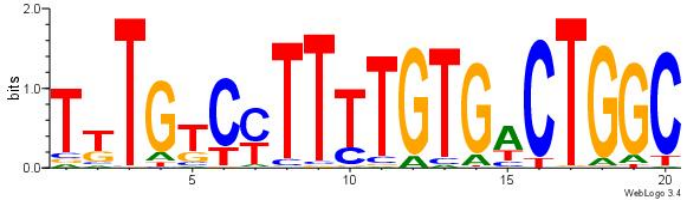

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.146583

Alignment:
GCGCTCKTCGGGGAGGCTCG
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence:
GCGCTCKTCGGGGAGGCTCG

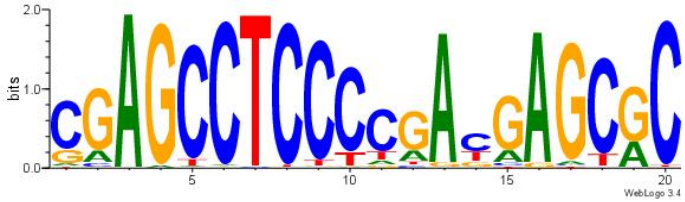

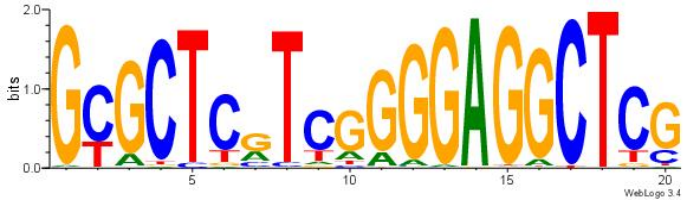

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.14763

Alignment:

```
GGCACTGCTGGGGGACCCAG
TAATTTTATGTGTCAACTTG
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

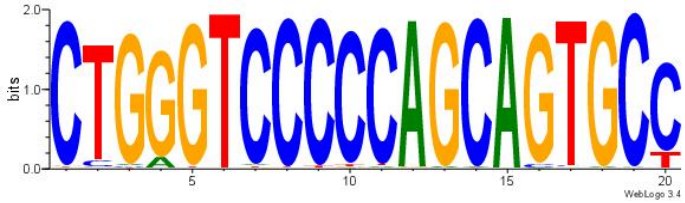

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

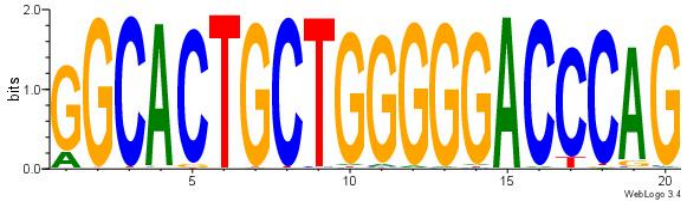

Dataset #:	1

Motif ID:	293
Motif name:	Motif 293
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.147739

Alignment:

```
CTGACTGGGAGACACCTCCC
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: CTGACTGGGAGACACCTCCC

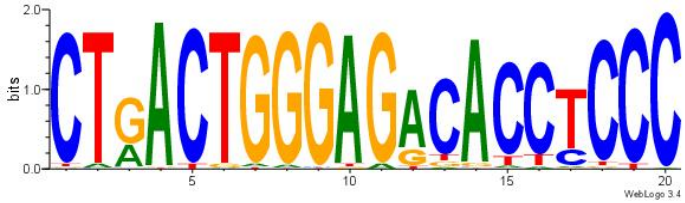

Reverse complement motif Consensus sequence: GGGAGGTGTCTCCCAGTCAG

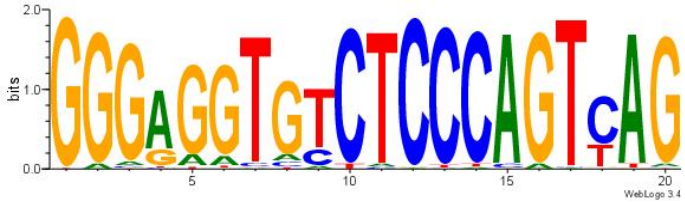

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.148825

Alignment:
CAAGCCTSKGCAATGGCAGG
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

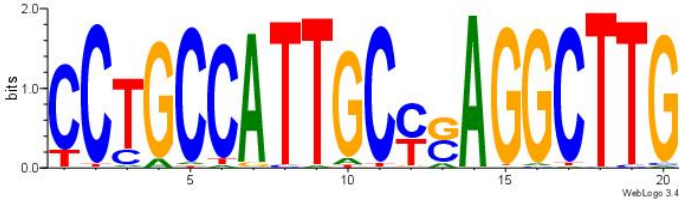

Reverse complement motif Consensus sequence:
CAAGCCTSKGCAATGGCAGG

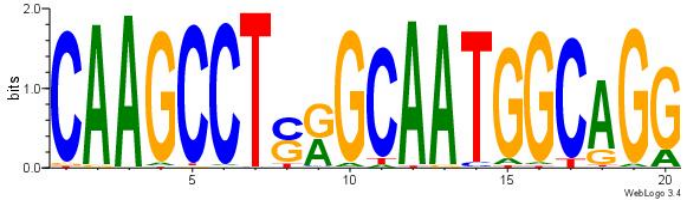

Dataset #: 1
Motif ID: 104
Motif name: Motif 104
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.149578

Alignment:
CAACATGGATGRARCTGGAG
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: CAACATGGATGRARCTGGAG

Reverse complement motif Consensus sequence:
CTCCAGKTMCATCCATGTTG

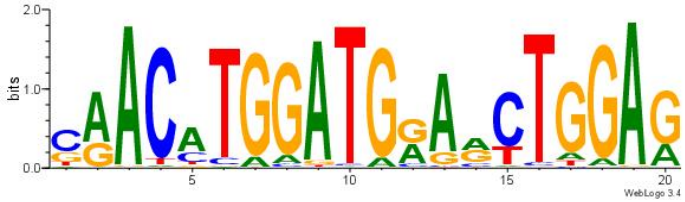

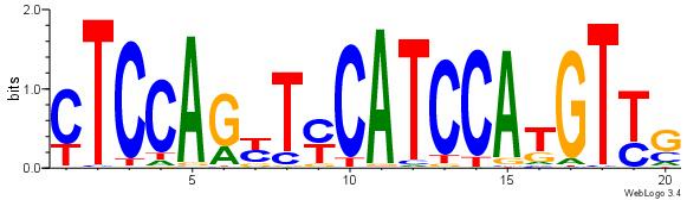

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.150055

Alignment:
GTKTMTATMTACCACATTTT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

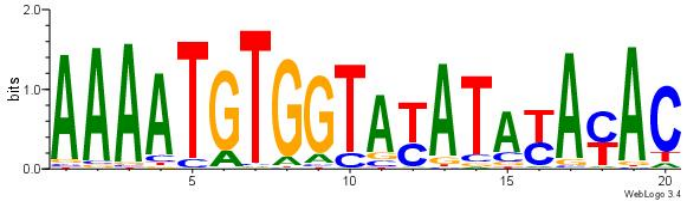

Reverse complement motif Consensus sequence:
GTKTMTATMTACCACATTTT

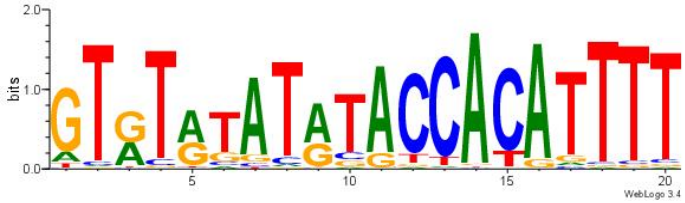

Dataset #: 1

Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.150107

Alignment:
ACCKTCGCGGTGAGTGTTAC
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

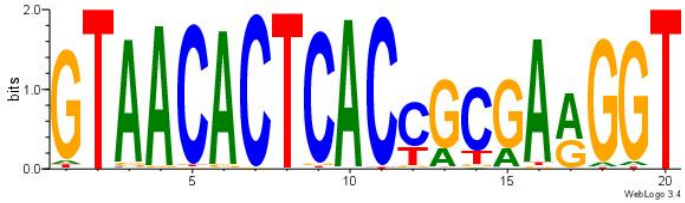

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

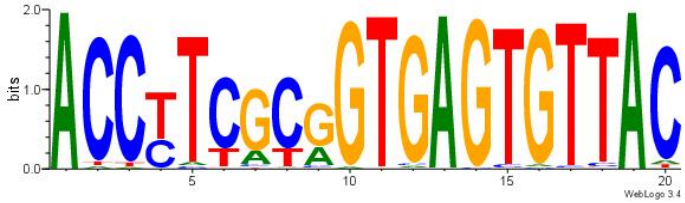

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.150401

Alignment:
CAGGTGGTKTTTGGTTACAT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

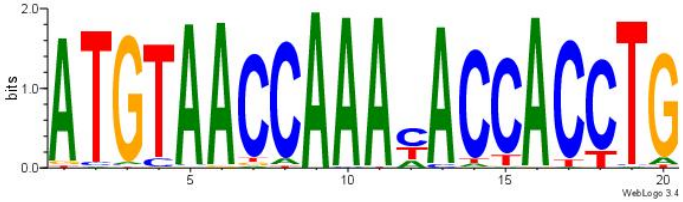

Reverse complement motif Consensus sequence:
CAGGTGGTKTTTGGTTACAT

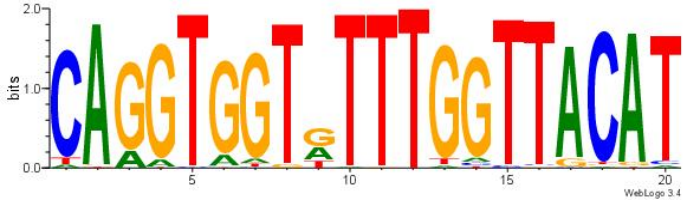

Dataset #: 1
Motif ID: 119
Motif name: Motif 119
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.152015

Alignment:
AAGTCCAAGATCAAGGTGYY
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

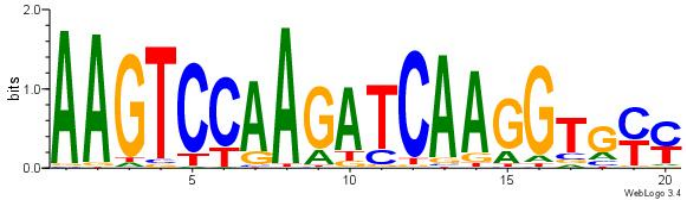

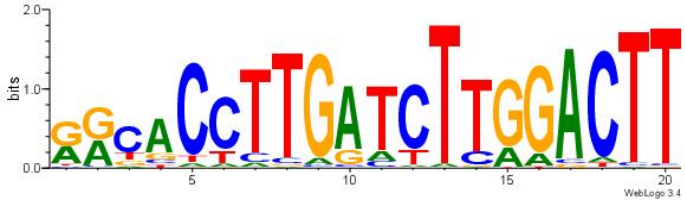

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.152467

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

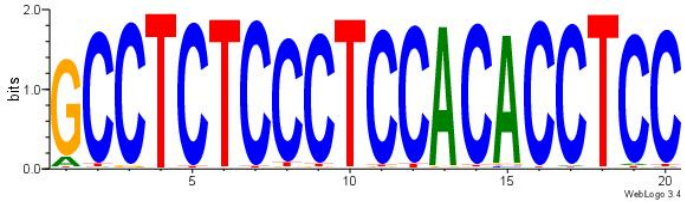

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

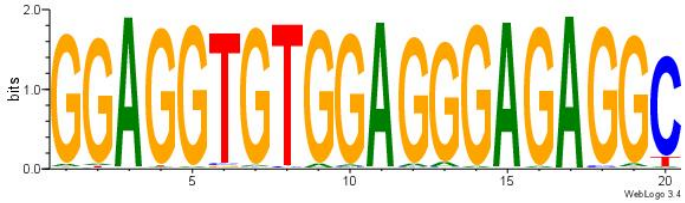

Dataset #:	1

Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.154984

Alignment:
GAATACCTCCTGAAGGACCT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

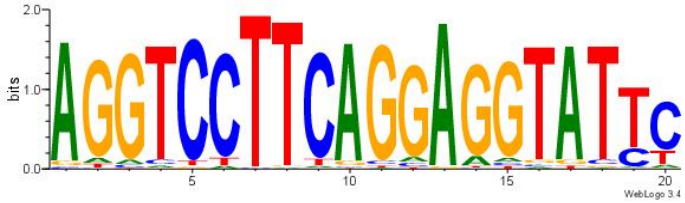

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

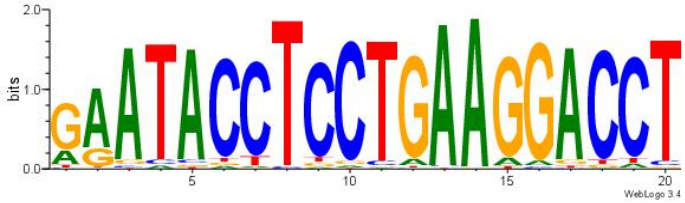

Dataset #:	1
Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.155097

Alignment:
ATAGGAATGCTTGTGATTTT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

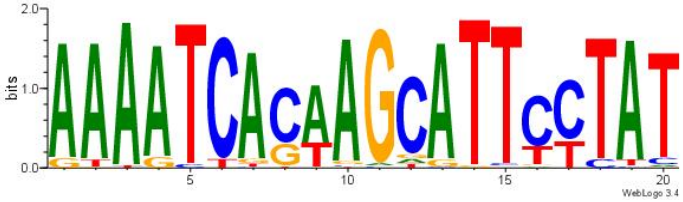

Reverse complement motif Consensus sequence:
ATAGGAATGCTTGTGATTTT

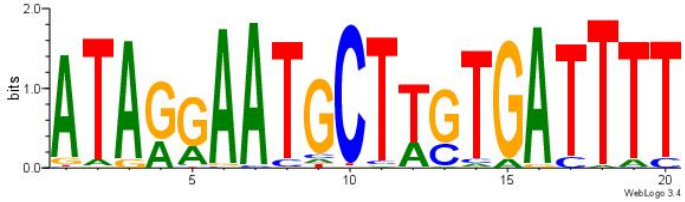

Dataset #: 1
Motif ID: 177
Motif name: Motif 177
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.155139

Alignment:
CCCGAAGCTGCRYRCTCGGT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

Reverse complement motif Consensus sequence:
ACCGAGMKMGCAGCTTCGGG

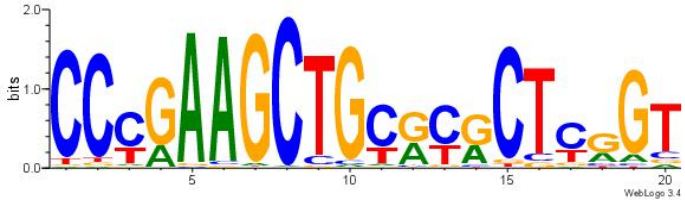

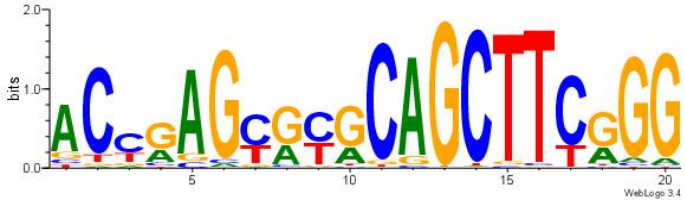

Dataset #:	1
Motif ID:	112
Motif name:	Motif 112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.155582

Alignment:

```
GCTGTGTGACCTTGGGCAAG
TAATTTTATGTGTCAACTTG
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

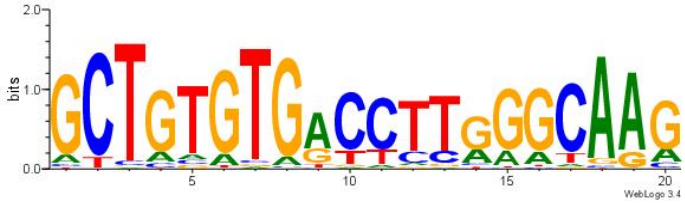

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

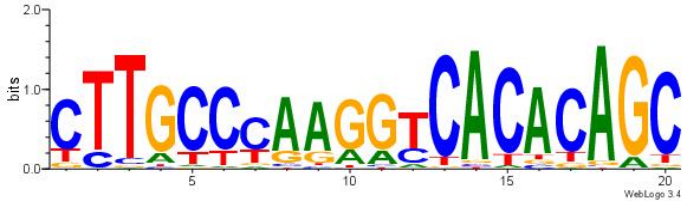

Dataset #: 1

Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15667

Alignment:

```
CTCCTGCCTCAGCCTCCCRA
TAATTTTATGTGTCAACTTG
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

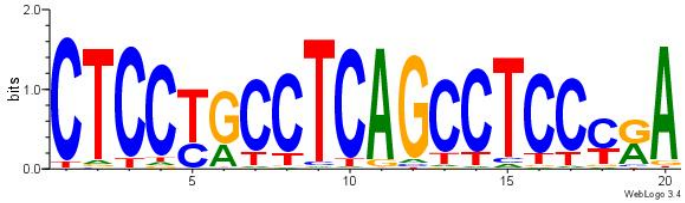

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

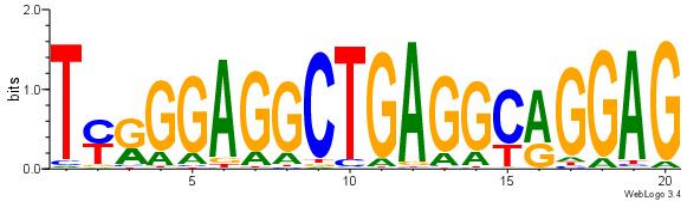

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.157182

Alignment:
GTTTAACCATTGAGGGCCAG
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

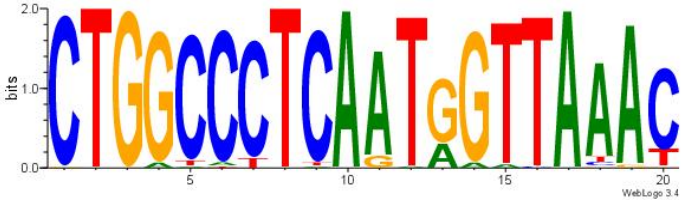

Reverse complement motif Consensus sequence:
GTTTAACCATTGAGGGCCAG

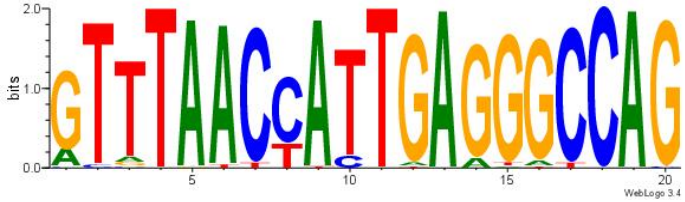

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.157911

Alignment:
CMTAGYACAGTGCCTGGCAC
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

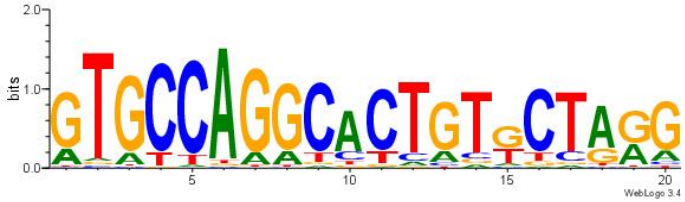

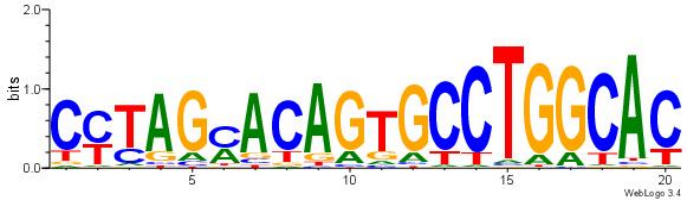

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20
Similarity score:	0.15816

Alignment:
TCCAAATGGGAGAAATTGGC
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

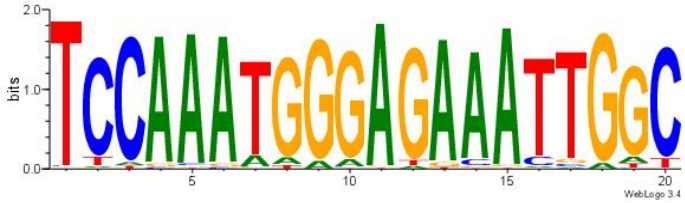

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

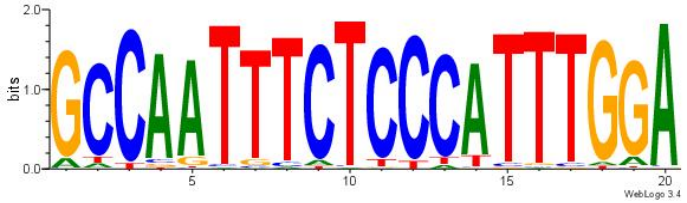

Dataset #:	1

Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.158414

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
CAAGTTGACACATAAAATTA
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

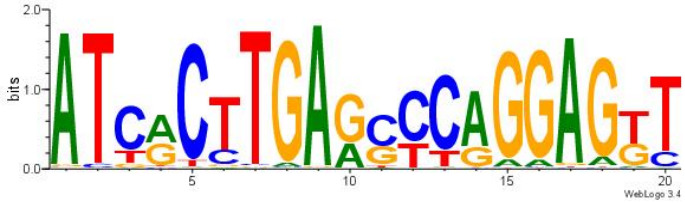

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

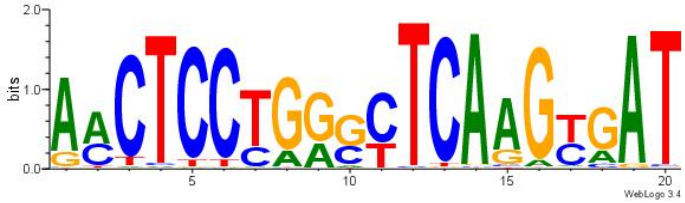

Dataset #:	1
Motif ID:	292
Motif name:	Motif 292
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	20

Similarity score: 0.159

Alignment:
AAGACCTTCCAGTGGGACAA
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

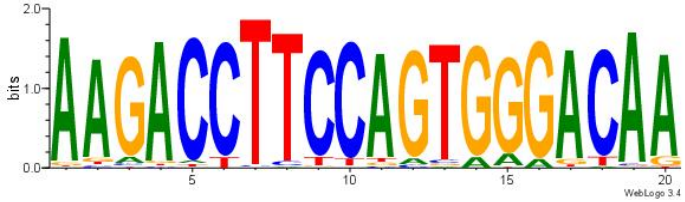

Reverse complement motif Consensus sequence:
TTGTCCCACTGGAAGGTCTT

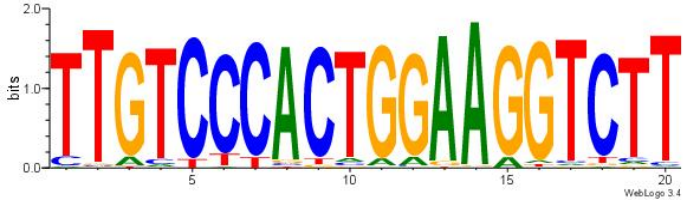

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.159128

Alignment:
GACTGGCAGGCAGCTCCACC
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

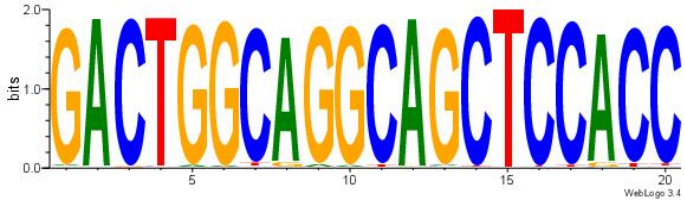

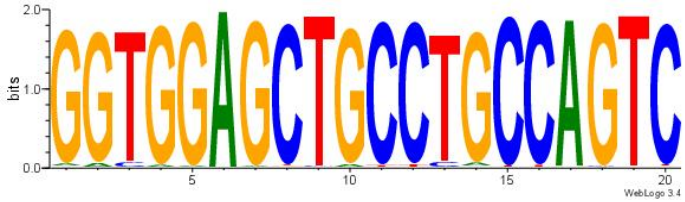

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159865

Alignment:

```
KCCGGGCCTTAGCTGCCTTC
TAATTTTATGTGTCAACTTG
```

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

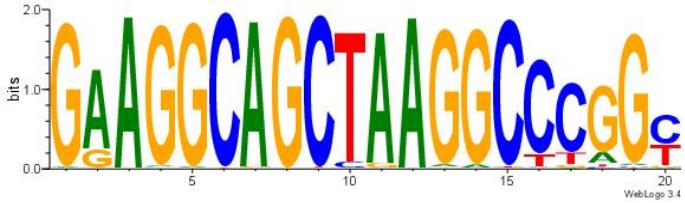

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

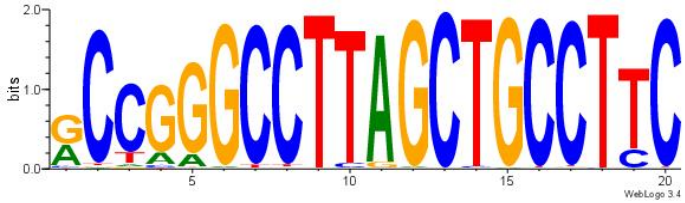

Dataset #: 1

Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.159998

Alignment:
GAAHCAACCKAAKTGTCCAT
TAATTTTATGTGTCAACTTG

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

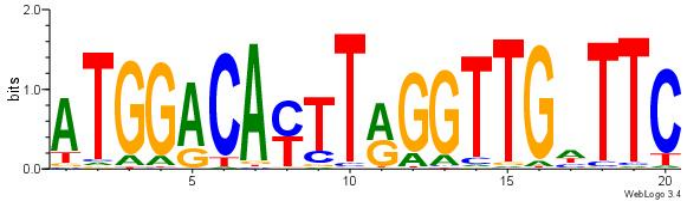

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

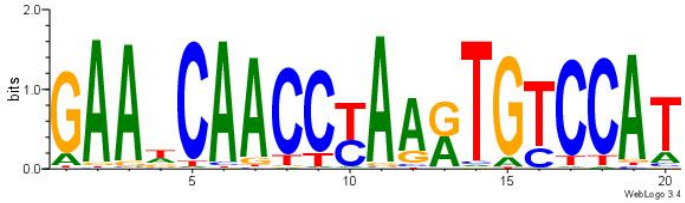

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20

Similarity score: 0.160235

Alignment:
GGCAATGCCTCGCCCTGCTT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

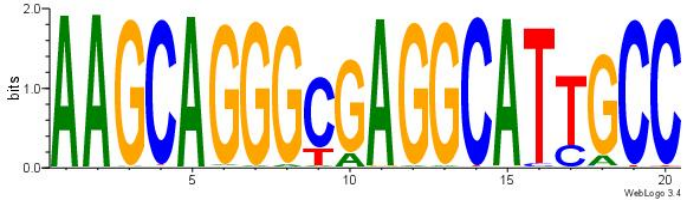

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

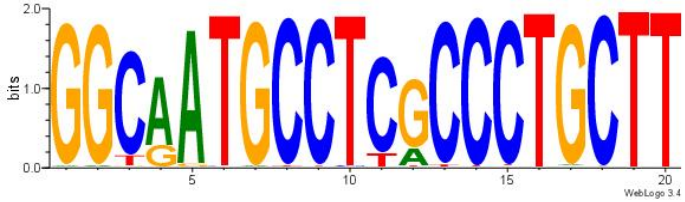

Dataset #: 1
Motif ID: 106
Motif name: Motif 106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 20
Similarity score: 0.160354

Alignment:
GGGATTGTAAATACACCAAT
CAAGTTGACACATAAAATTA

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

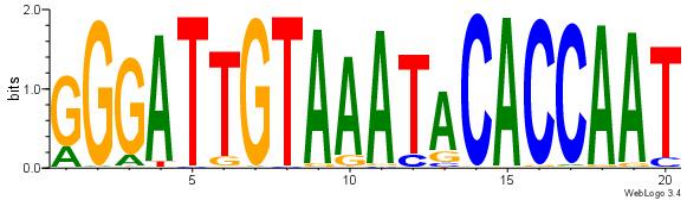

Dataset #: 1 Motif ID: 358 Motif name: Motif 358

Original motif Consensus sequence: CGTCCATCACCCC

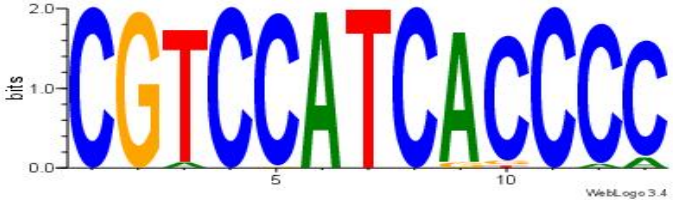

Reverse complement motif Consensus sequence: GGGGTGATGGACG

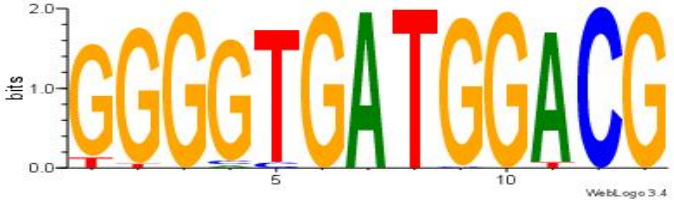

Best Matches for Motif ID 358 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0685601

Alignment:

```
BCVTCTGTCACCCC
CGTCCATCACCCC-
```

Original motif Consensus sequence: GGGGTGACAGABGB

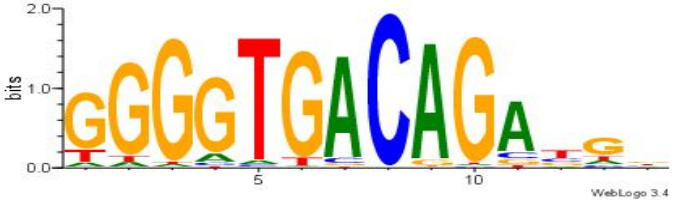

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

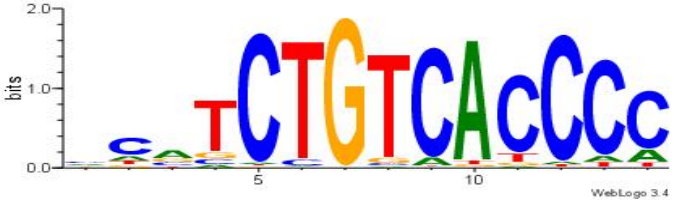

Dataset #:	1
Motif ID:	53
Motif name:	Motif 53
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0721847

Alignment:

```
GTCCCATCGACCACCCAAG
----CGTCCATCACCCC--
```

Original motif Consensus sequence: GTCCCATCGACCACCCAAG

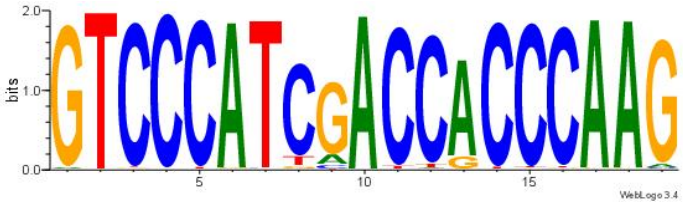

Reverse complement motif Consensus sequence: CTTGGGTGGTCGATGGGAC

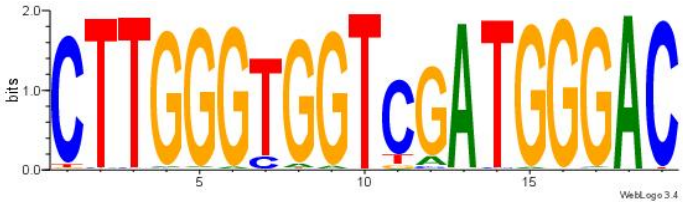

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0757831

Alignment:

```
ATCCATCCATCCATCCA
---CGTCCATCACCCC-
```

Original motif Consensus sequence: ATCCATCCATCCATCCA

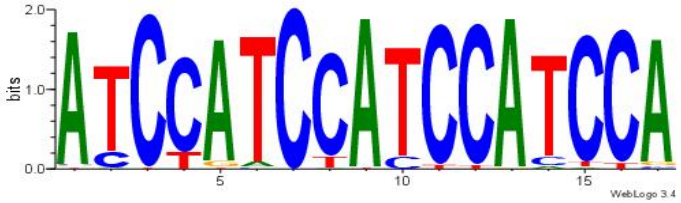

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6

Number of overlap: 13
Similarity score: 0.0810183

Alignment:
ACTGTCTTCCACCTCCACAT
-----CGTCCATCACCCC--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

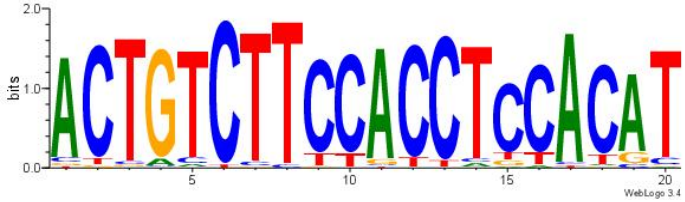

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

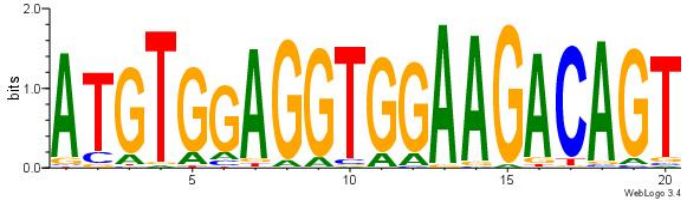

Dataset #: 1
Motif ID: 111
Motif name: Motif 111
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.083582

Alignment:
KGGGCDGAGGGGCTCCT
-GGGGTGATGGACG---

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

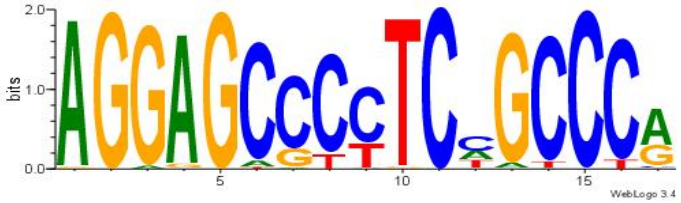

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.0877096

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-------CGTCCATCACCCC
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

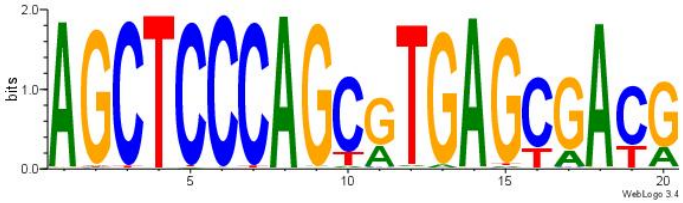

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

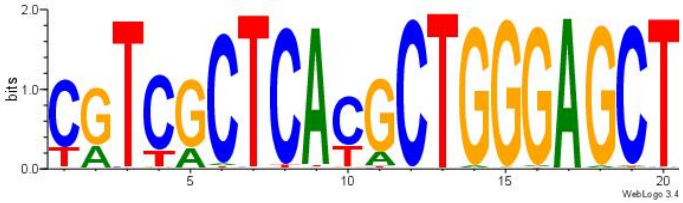

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.088277

Alignment:

```
ACTCCCTAGTGAGATGAACC
-------GGGGTGATGGACG
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

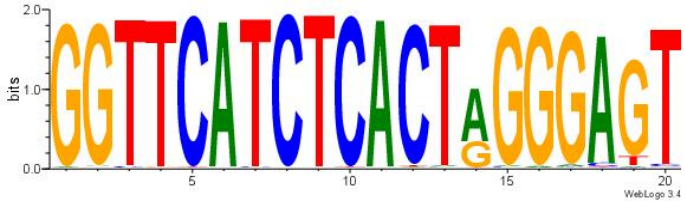

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

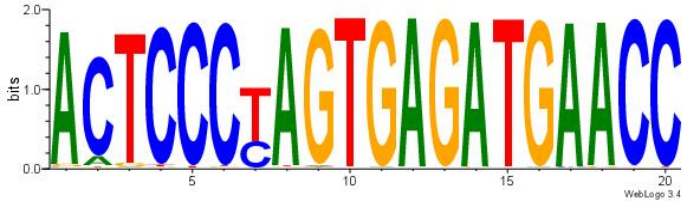

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.089987

Alignment:
CGCCCATCGTCTGGGATGT
------CGTCCATCACCCC

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

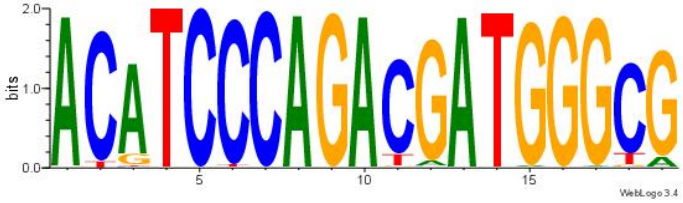

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

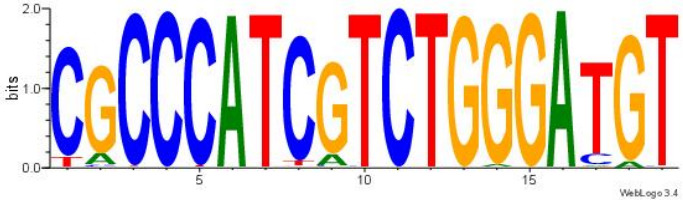

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 13
Similarity score: 0.0912705

Alignment:
CATTCTGGGGTCTGGAGGAY
--GGGGTGATGGACG-----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

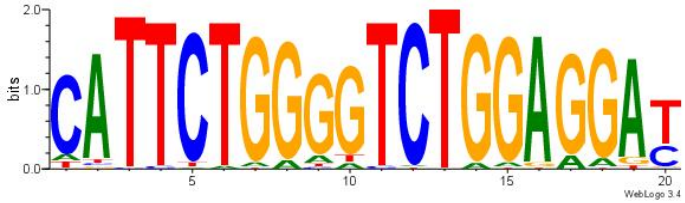

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

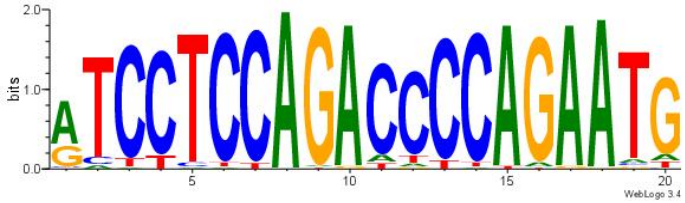

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0916313

Alignment:

```
CAGAAATCACCCGTCTT
CGTCCATCACCCC----
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

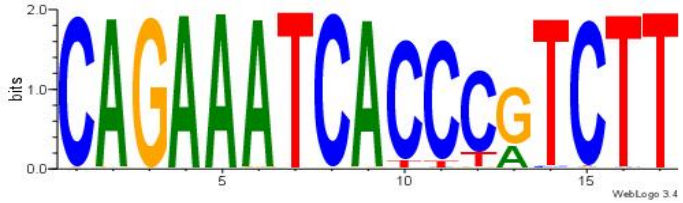

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

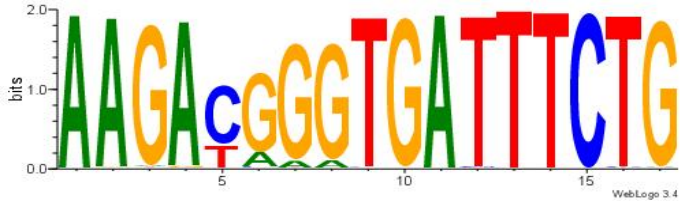

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0917872

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
GGGGTGATGGACG-------
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

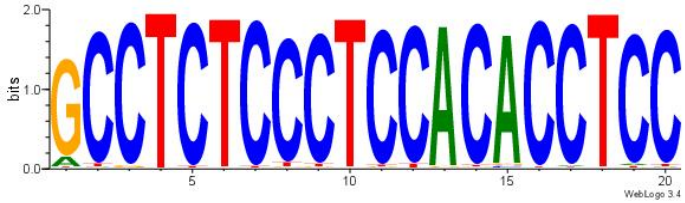

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

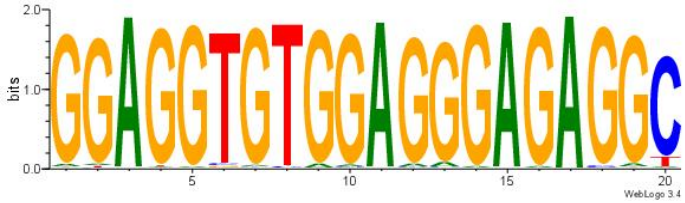

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 13
Similarity score: 0.0921057

Alignment:
GACCTGCAGCCCGCCATG
---CGTCCATCACCCC--

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

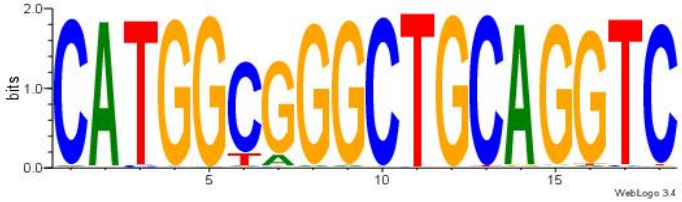

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

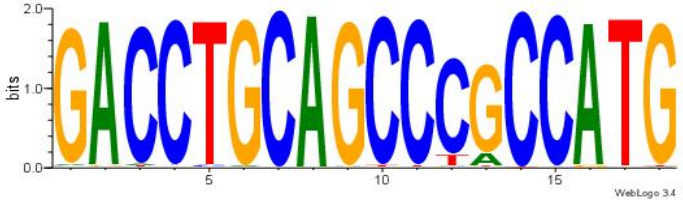

Dataset #: 1
Motif ID: 205
Motif name: Motif 205
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0945947

Alignment:
TGGGCTGCCAGATG
-GGGGTGATGGACG

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

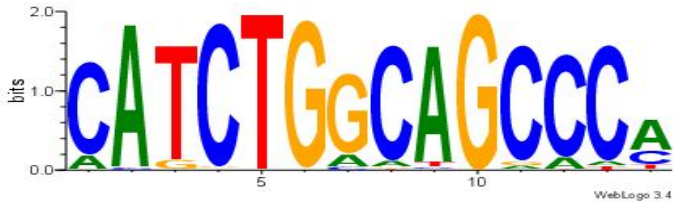

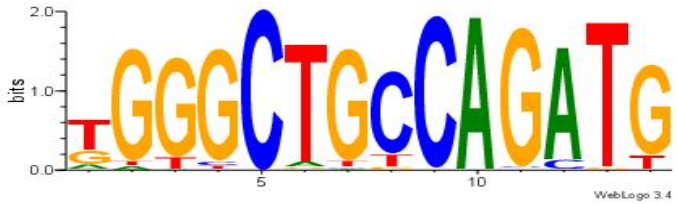

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0947412

Alignment:

```
TGHCCTGCKCCCACTGTCT
------CGTCCATCACCCC
```

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

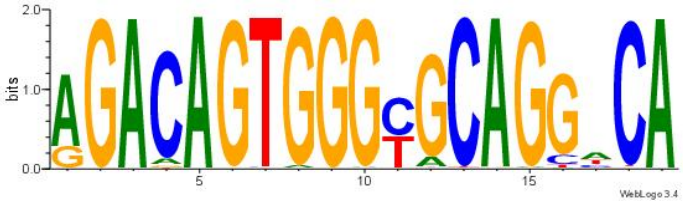

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

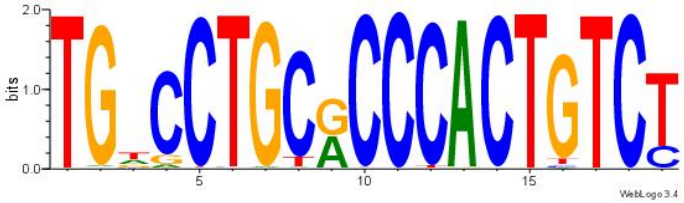

Dataset #: 1

Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0955133

Alignment:

```
ATCTCASAAATCACCACTA
----CGTCCATCACCCC--
```

Original motif Consensus sequence: ATCTCASAAATCACCACTA

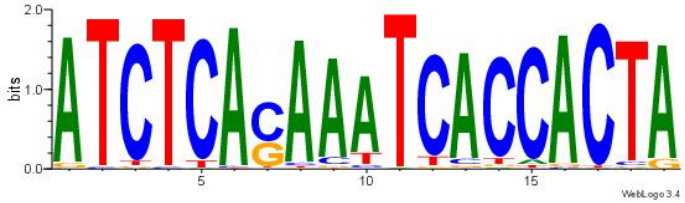

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

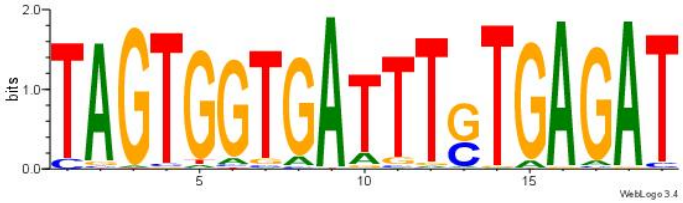

Dataset #:	1
Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.0972845

Alignment:
GCCGGGRAGAGGCGCTCCT
---GGGGTGATGGACG---

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

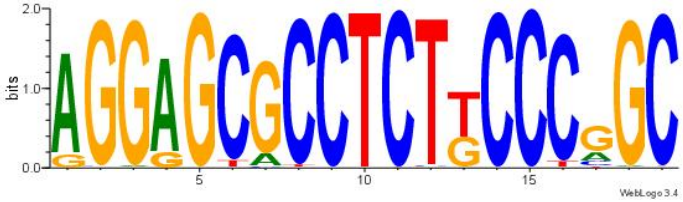

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

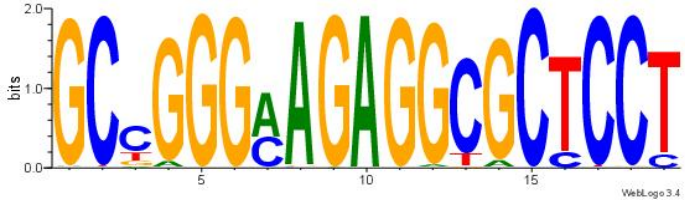

Dataset #: 1
Motif ID: 161
Motif name: Motif 161
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0997309

Alignment:
VCCDCCTCCKCCTCCTC
CGTCCATCACCCC----

Original motif Consensus sequence: GAGGAGGRGGAGGDGGV

Reverse complement motif Consensus sequence: VCCDCCTCCKCCTCCTC

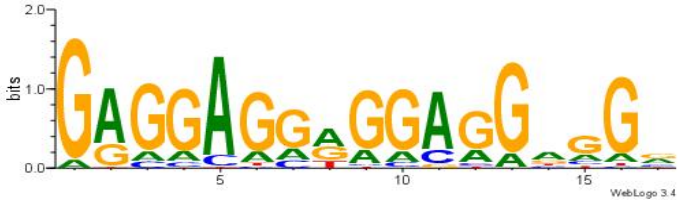

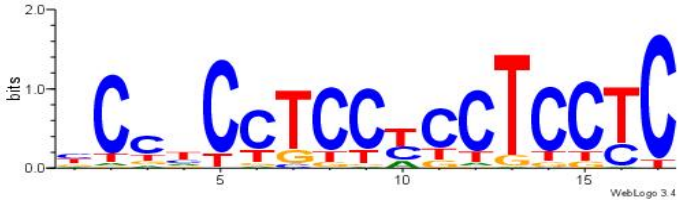

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.10118

Alignment:

```
TMGGGAGGCTGAGGCAGGAG
-----GGGGTGATGGACG--
```

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

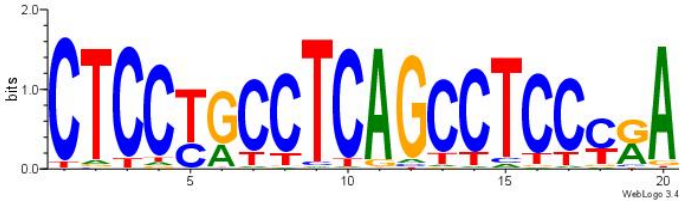

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

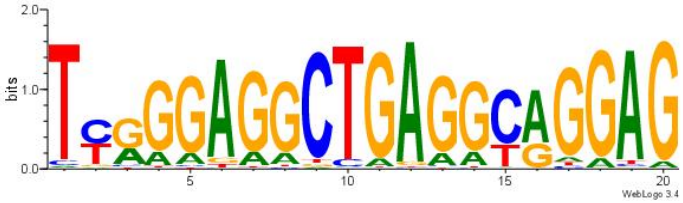

Dataset #: 1

Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.101966

Alignment:

```
TGAGKCAATTAAACCTCTT
----CGTCCATCACCCC--
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

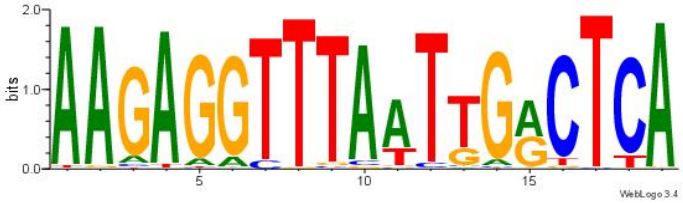

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

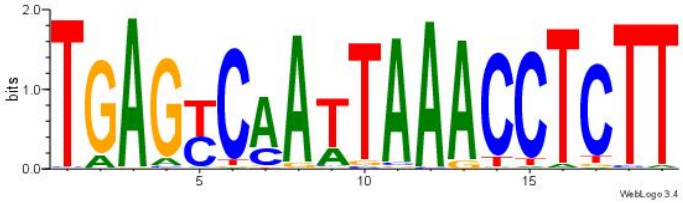

Dataset #:	1
Motif ID:	122
Motif name:	Motif 122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.104433

Alignment:
CCTTGGCCAGCCCAGAAAG
CGTCCATCACCCC------

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

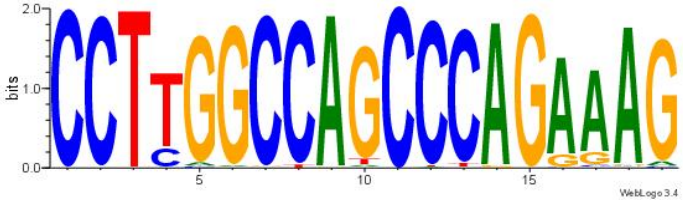

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

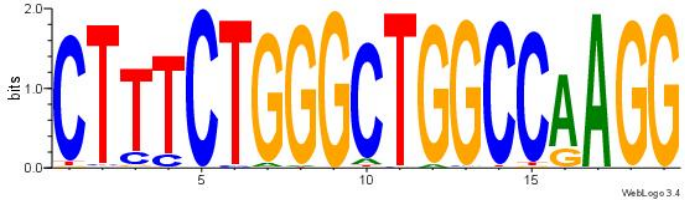

Dataset #: 1
Motif ID: 286
Motif name: Motif 286
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.104999

Alignment:
CTCCCAGCCGCCTG
-CGTCCATCACCCC

Original motif Consensus sequence: CAGGCGGCTGGGAG

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

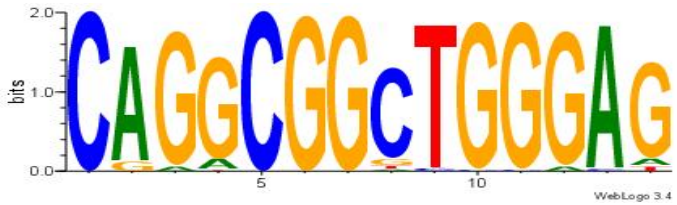

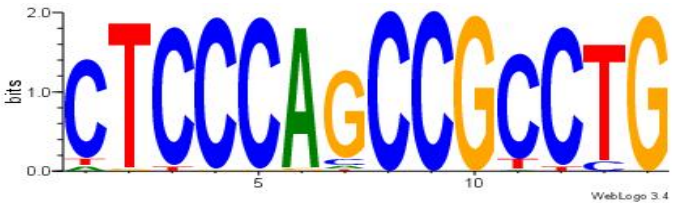

Dataset #:	1
Motif ID:	196
Motif name:	Motif 196
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.105141

Alignment:

```
CAAGCCTSKGCAATGGCAGG
------GGGGTGATGGACG-
```

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

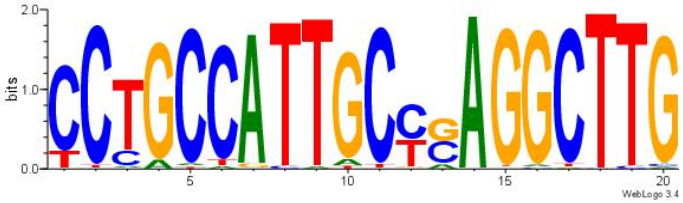

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

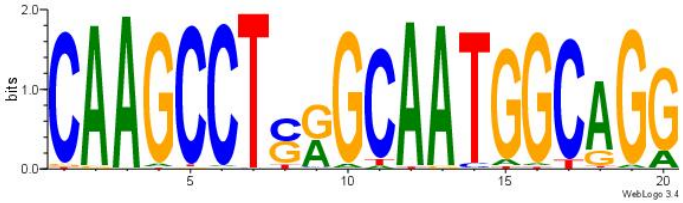

Dataset #: 1

Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.105708

Alignment:

```
GGCAATGCCTCGCCCTGCTT
----CGTCCATCACCCC---
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

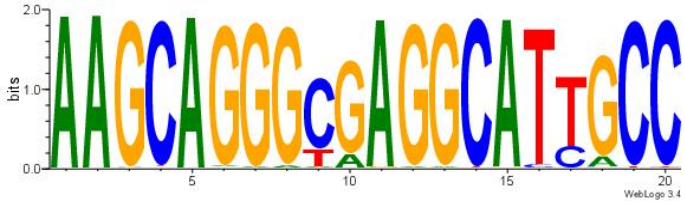

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

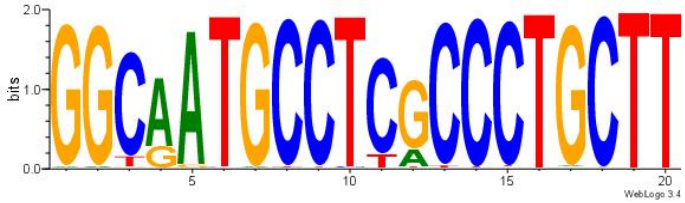

Dataset #:	1
Motif ID:	31
Motif name:	Motif 31
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.10598

Alignment:
CCGTGCGCGAGCCG
-CGTCCATCACCCC

Original motif Consensus sequence: CCGTGCGCGAGCCG

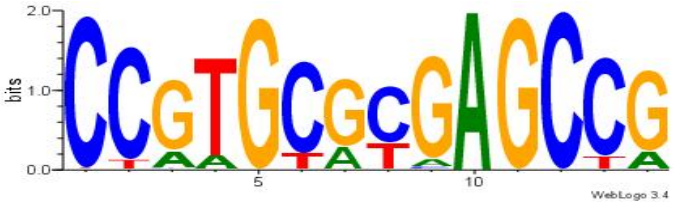

Reverse complement motif Consensus sequence: CGGCTCGCGCACG

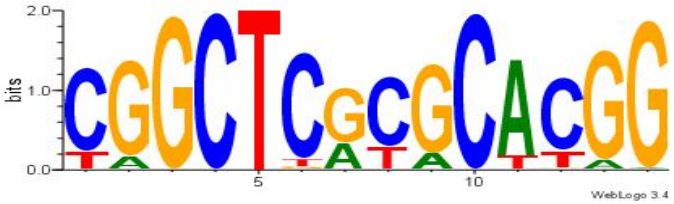

Dataset #: 1
Motif ID: 312
Motif name: Motif 312
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.106525

Alignment:
CCCMKGGCACCCTCAGTCCT
-CGTCCATCACCCC------

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

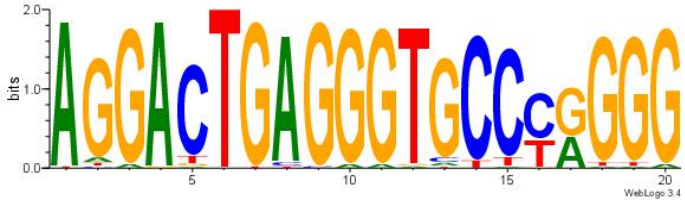

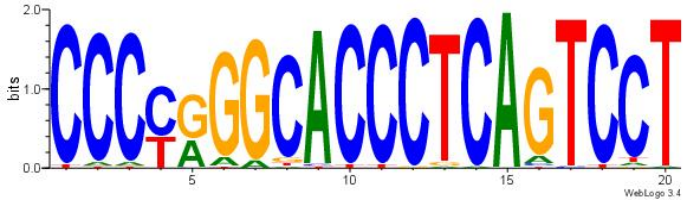

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.107

Alignment:

```
AAAAGTCCACAGTCCAAAGT
---CGTCCATCACCCC----
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

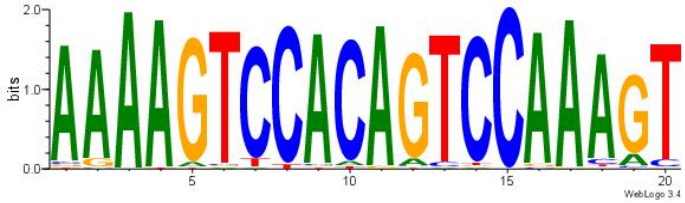

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

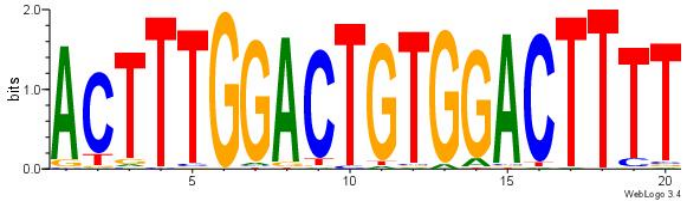

Dataset #:	1

Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.10726

Alignment:

```
CTGGGTCCCCCAGCAGTGCC
---CGTCCATCACCCC----
```

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

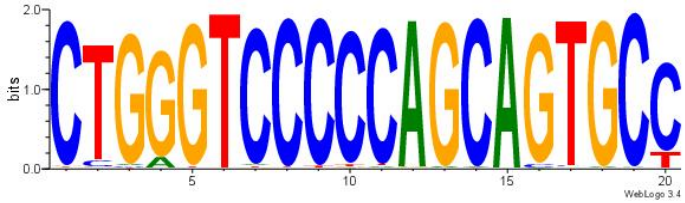

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

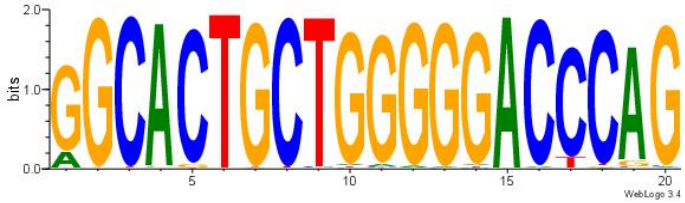

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.107416

Alignment:
GGGGGCTGACCCCCCCACC
------CGTCCATCACCCC

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

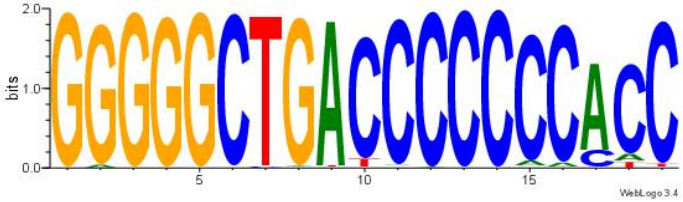

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

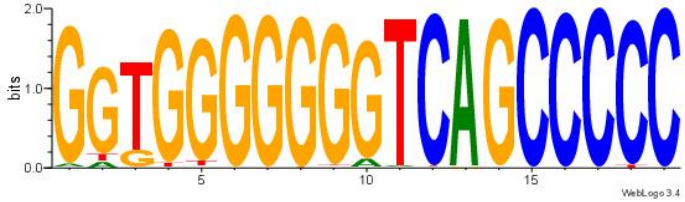

Dataset #: 1
Motif ID: 174
Motif name: Motif 174
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.107672

Alignment:
ATCTGVTCACCCC
CGTCCATCACCCC

Original motif Consensus sequence: GGGGTGAVCAGAT

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

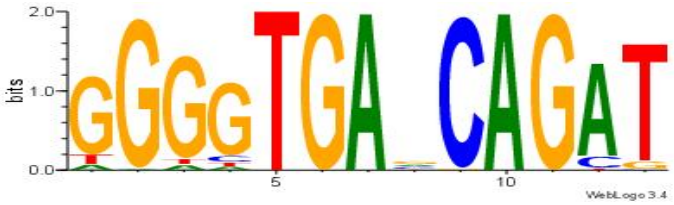

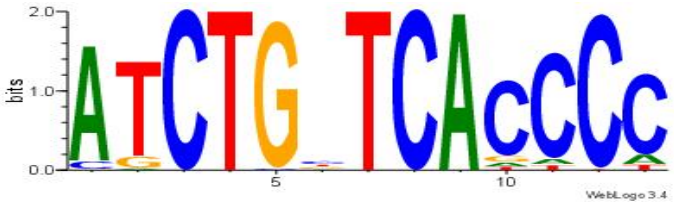

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.107698

Alignment:

```
CCTCCGTGGGCTCC
CGTCCATCACCCC-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

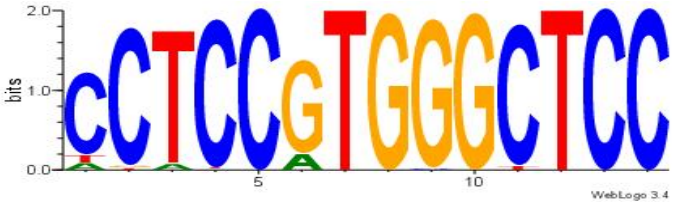

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

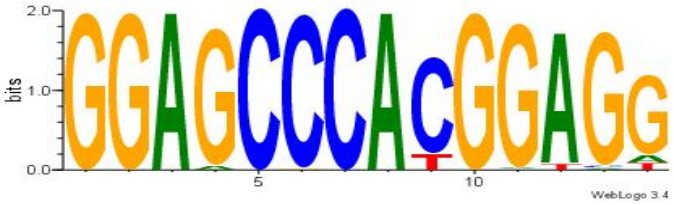

Dataset #:	1
Motif ID:	221

Motif name:	Motif 221
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.10788

Alignment:

```
GTGTCCCCTTCCTCCC
CGTCCATCACCCC---
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

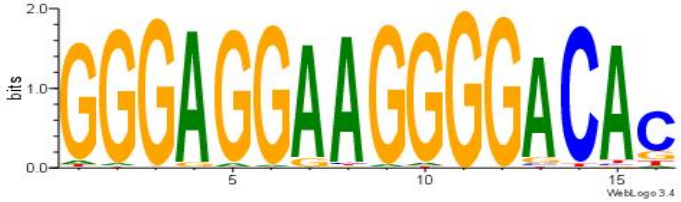

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

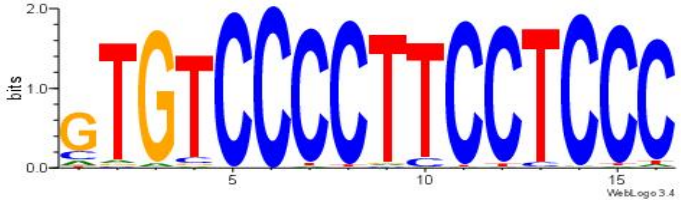

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.108376

Alignment:
ATGGCCTATGACYGSTTTG
--CGTCCATCACCCC----

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

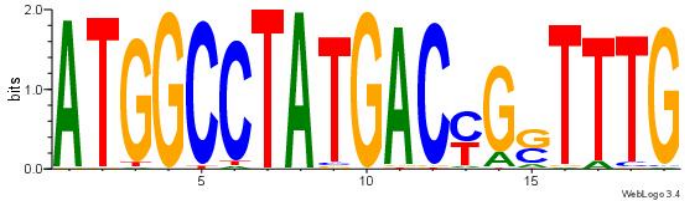

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

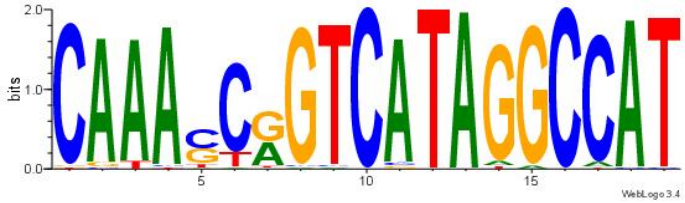

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10839

Alignment:
GTGGGTGCAGTGCA
-GGGGTGATGGACG

Original motif Consensus sequence: TGCACTGCACCCAC

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

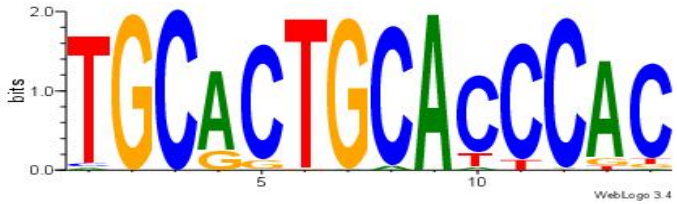

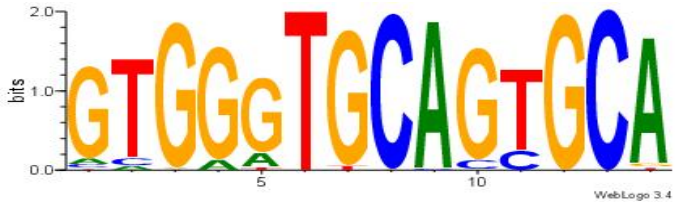

Dataset #:	1
Motif ID:	271
Motif name:	Motif 271
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.108418

Alignment:

```
AGGGATCTAGGTTGCR
--GGGGTGATGGACG-
```

Original motif Consensus sequence: AGGGATCTAGGTTGCR

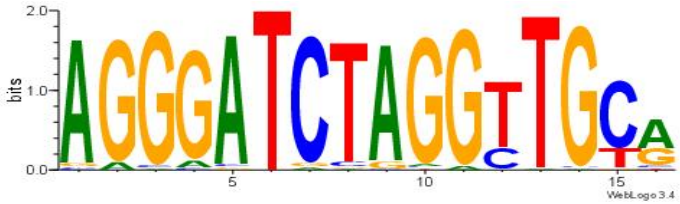

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

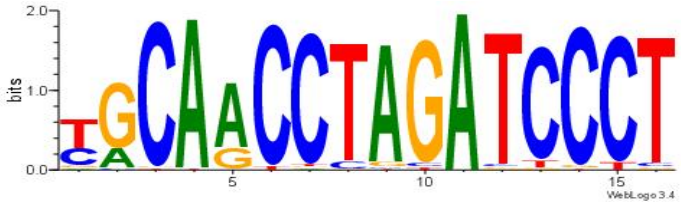

Dataset #: 1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.108478

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
CGTCCATCACCCC-------
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

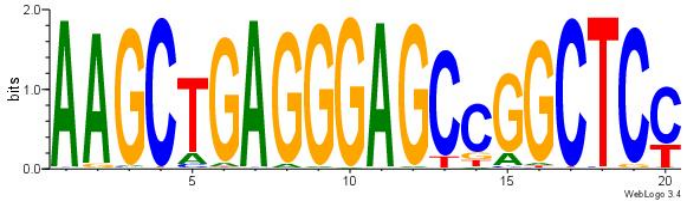

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

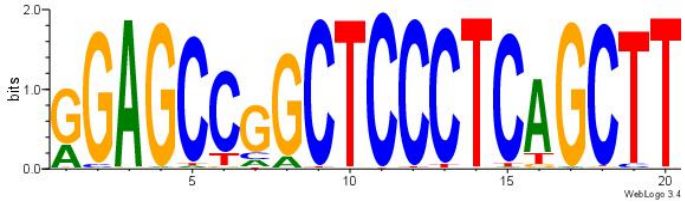

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.108615

Alignment:
GACTGGCAGGCAGCTCCACC
------CGTCCATCACCCC-

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

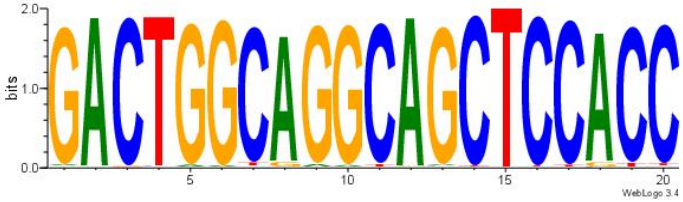

Reverse complement motif Consensus sequence:
GGTGGAGCTGCCTGCCAGTC

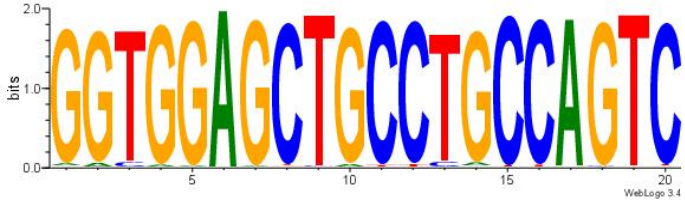

Dataset #: 1
Motif ID: 246
Motif name: Motif 246
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.109327

Alignment:
GCAGCTTCACTCCTGA
CGTCCATCACCCC---

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence:
TCAGGAGTGAAGCTGC

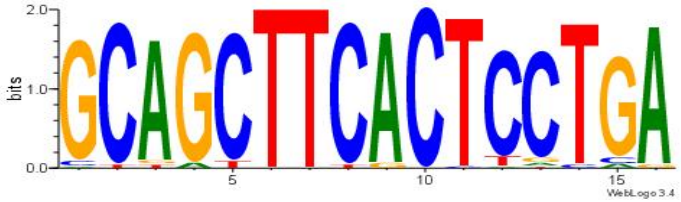

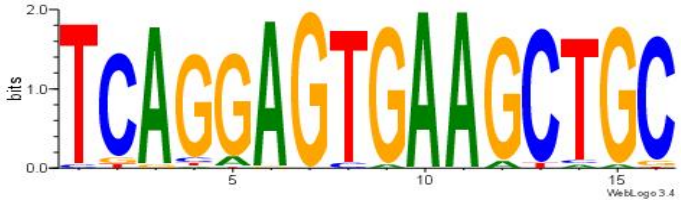

Dataset #:	1
Motif ID:	100
Motif name:	Motif 100
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.109402

Alignment:

```
GCTGGCCCGCAAGCGCCGCG
------CGTCCATCACCCC-
```

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

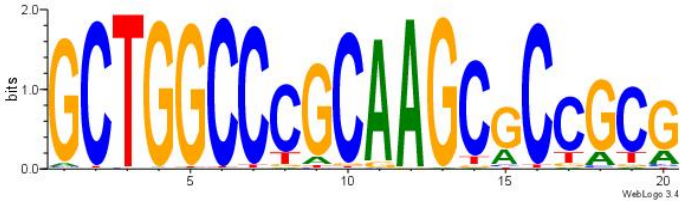

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

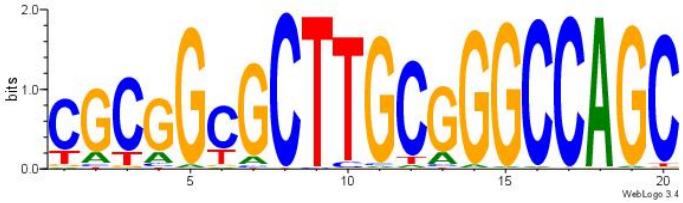

Dataset #: 1

Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.109444

Alignment:

```
HAGTGGKATTGCTGGATCAT
-----GGGGTGATGGACG--
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

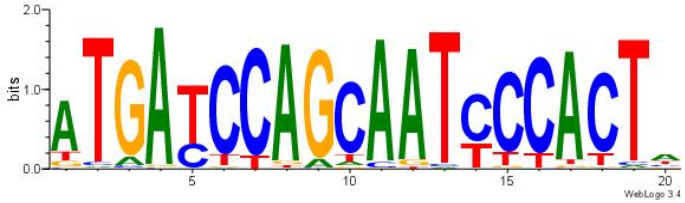

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

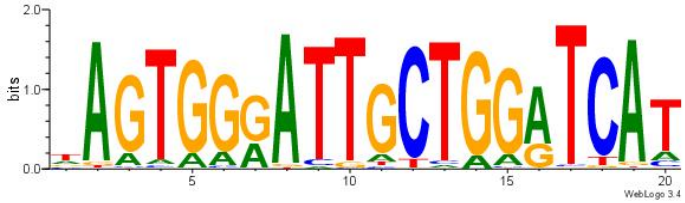

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.109466

Alignment:
AGGTCCTTCAGGAGGTATTC
-CGTCCATCACCCC------

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

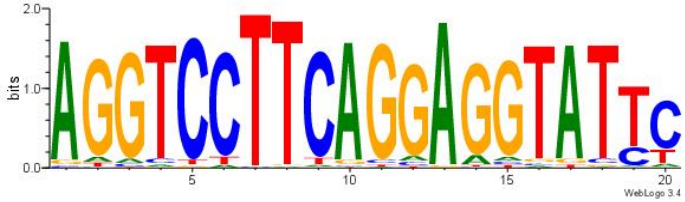

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

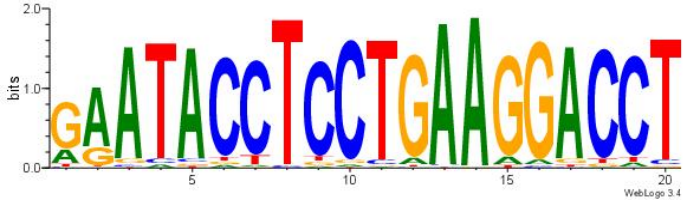

Dataset #: 1
Motif ID: 274
Motif name: Motif 274
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.109771

Alignment:
CTGGTCAAGGAAA
GGGGTGATGGACG

Original motif Consensus sequence: CTGGTCAAGGAAA

Reverse complement motif Consensus sequence: TTTCCTTGACCAG

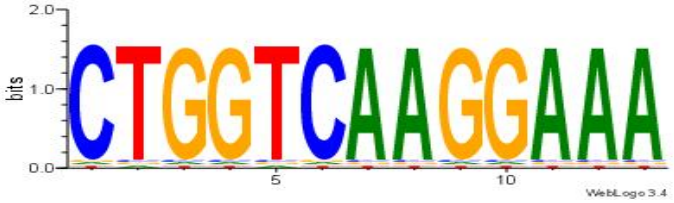

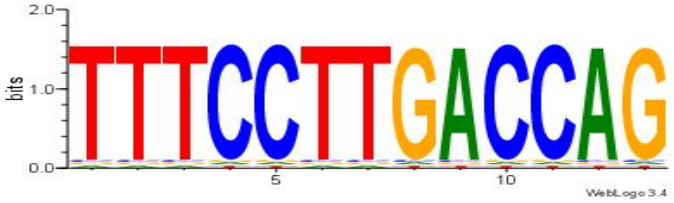

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.109848

Alignment:

```
GACAGGAGATTAACACTGAG
--GGGGTGATGGACG-----
```

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

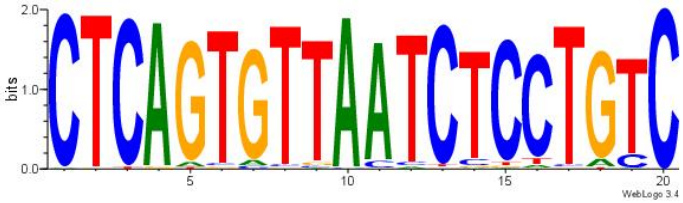

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

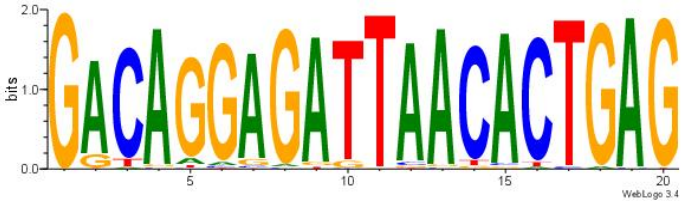

Dataset #: 1

Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.110537

Alignment:

```
TGTCCATGTGTTCTC
--CGTCCATCACCCC
```

Original motif Consensus sequence: GAGAACACATGGACA

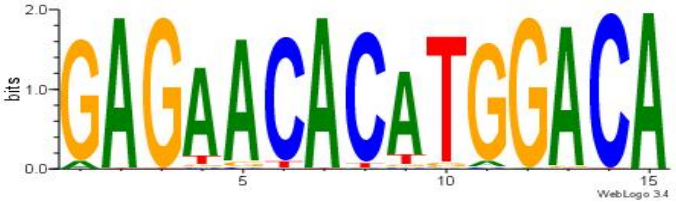

Reverse complement motif Consensus sequence: TGTCCATGTGTTCTC

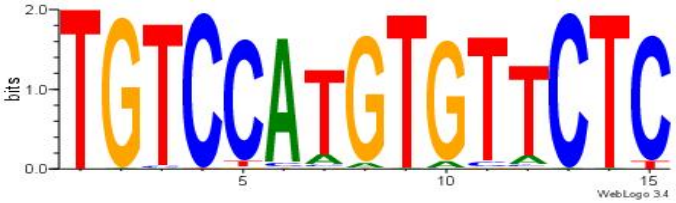

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111437

Alignment:
AGCCTCCAGAACTGT
--CGTCCATCACCCC

Original motif Consensus sequence: AGCCTCCAGAACTGT

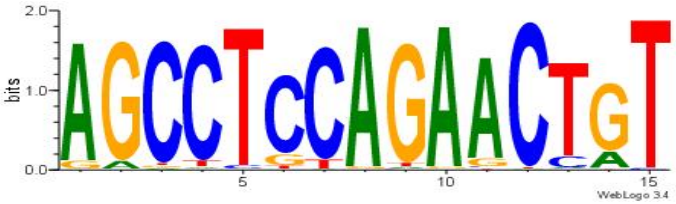

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	138
Motif name:	Motif 138
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.111523

Alignment:
GGSKGATCTGGCTG
-GGGGTGATGGACG

Original motif Consensus sequence: CAGCCAGATCRSCC

Reverse complement motif Consensus sequence: GGSKGATCTGGCT

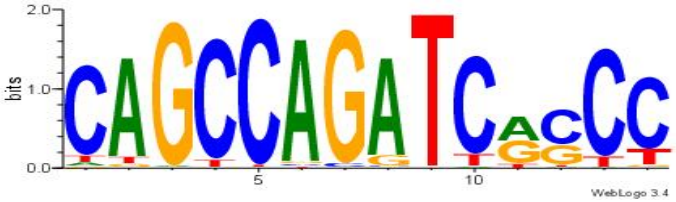

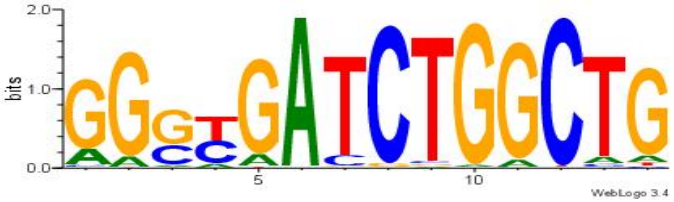

Dataset #:	1
Motif ID:	39
Motif name:	Motif 39
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.111593

Alignment:

```
CCTCCCAGCCGCCT
-CGTCCATCACCCC
```

Original motif Consensus sequence: AGGCGGCTGGGAGG

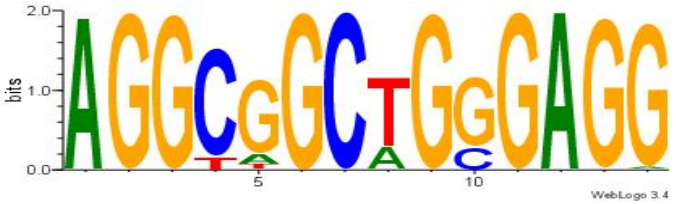

Reverse complement motif Consensus sequence: CCTCCCAGCCGCC

Dataset #:	1
Motif ID:	148

Motif name:	Motif 148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.111752

Alignment:

```
CTTCGCTGACTCTCTTT
----CGTCCATCACCCC
```

Original motif Consensus sequence: AAAGAGAGTCAGCGAAG

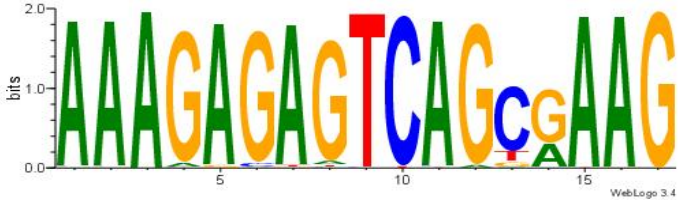

Reverse complement motif Consensus sequence: CTTCGCTGACTCTCTTT

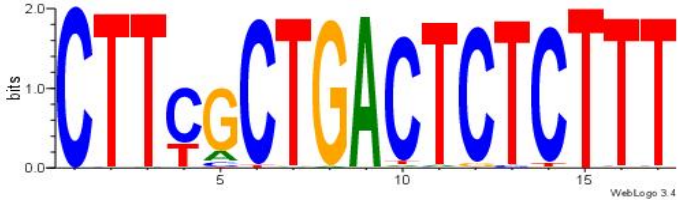

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.111862

Alignment:
GCCTCCTTGAGCTGTGGTGG
------CGTCCATCACCCC-

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

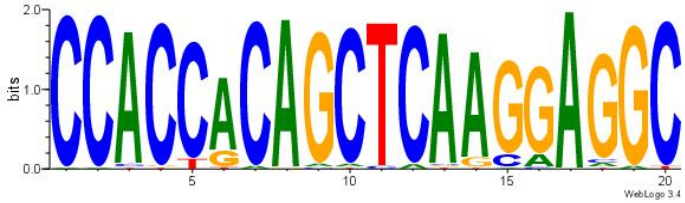

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

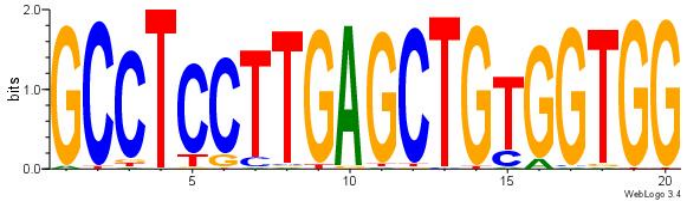

Dataset #:	1
Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.112026

Alignment:
CATCTGGAGCCCCA
CGTCCATCACCCC-

Original motif Consensus sequence: CATCTGGAGCCCCA

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

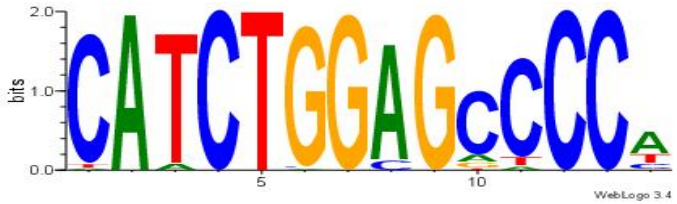

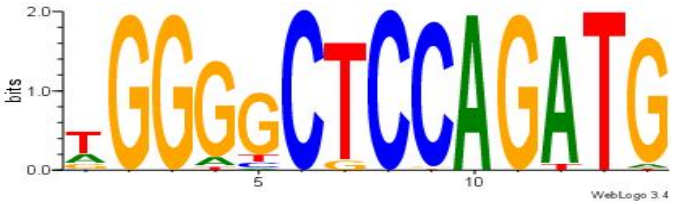

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.112095

Alignment:

```
TTGGTAGGATCCGTGATGCC
CGTCCATCACCCC-------
```

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

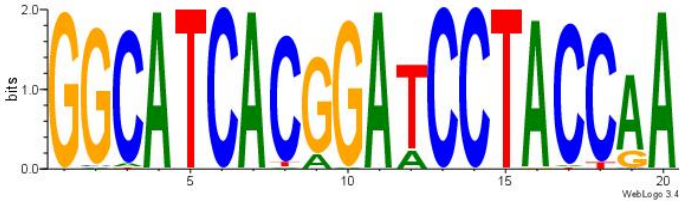

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

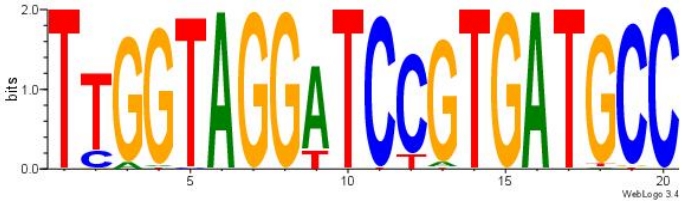

Dataset #: 1 Motif ID: 359 Motif name: Motif 359

Original motif Consensus sequence: TGACGTCACS

Reverse complement motif Consensus sequence: SGTGACGTCA

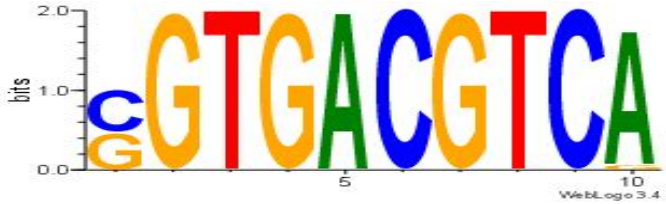

Best Matches for Motif ID 359 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0622858

Alignment:

```
GGATCCACTGGGTGAAGCCA
SGTGACGTCA----------
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

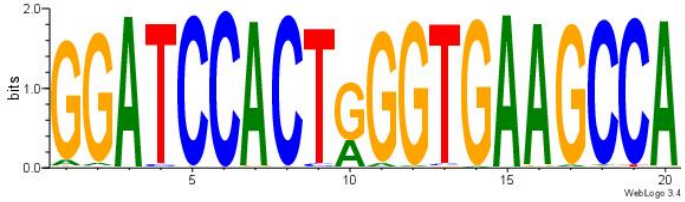

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

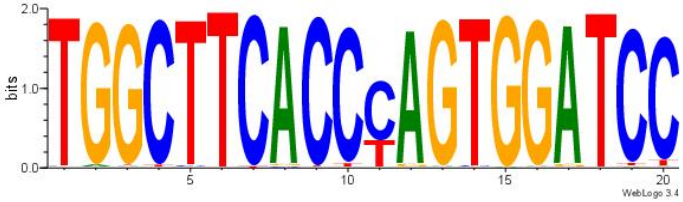

Dataset #:	1
Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0624843

Alignment:

```
MGTGTGATGTCTCCCCC
---TGACGTCACS----
```

Original motif Consensus sequence: GGGGGAGACATCACACR

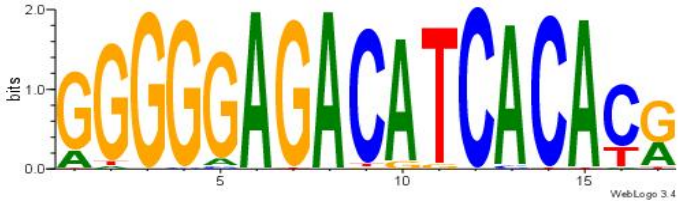

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

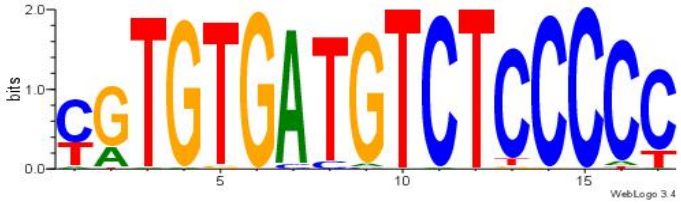

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

Number of overlap: 10
Similarity score: 0.0832463

Alignment:
TAMGACCTCAGGTCCTCAG
-------TGACGTCACS--

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

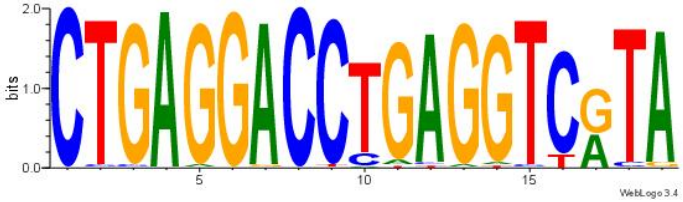

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

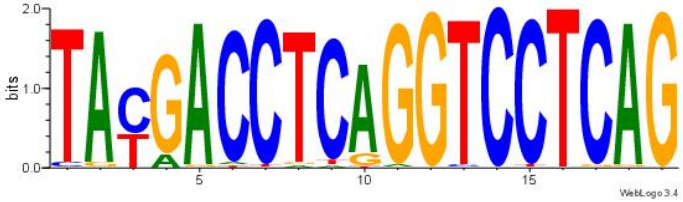

Dataset #: 1
Motif ID: 316
Motif name: Motif 316
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0833695

Alignment:
ACGTCACTTCCG
-SGTGACGTCA-

Original motif Consensus sequence: CGGAAGTGACGT

Reverse complement motif Consensus sequence: ACGTCACTTCCG

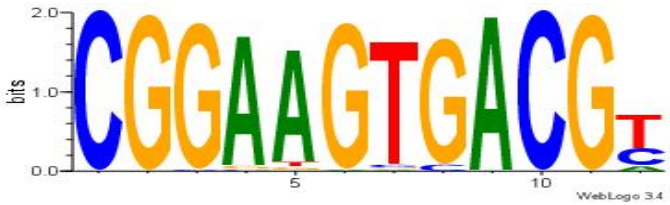

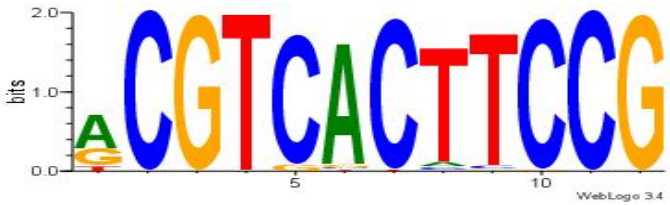

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.0854535

Alignment:

```
GATCACGAGGTCAGGAG
-----TGACGTCACS--
```

Original motif Consensus sequence: GATCACGAGGTCAGGAG

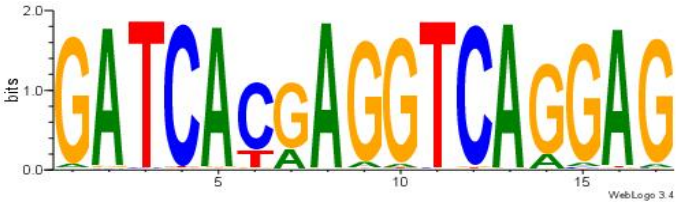

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

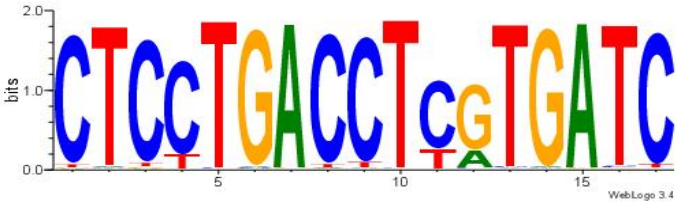

Dataset #: 1

Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0867058

Alignment:

```
CAGAAATCACCCGTCTT
-TGACGTCACS------
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

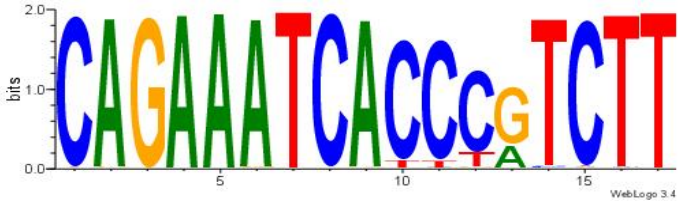

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

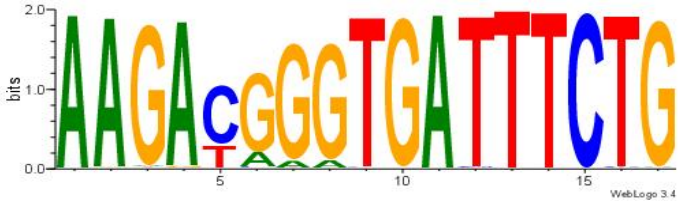

Dataset #:	1
Motif ID:	236
Motif name:	Motif 236
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.0867491

Alignment:
CGGTACCTCAGAT
SGTGACGTCA---

Original motif Consensus sequence: ATCTGAGGTACCG

Reverse complement motif Consensus sequence: CGGTACCTCAGAT

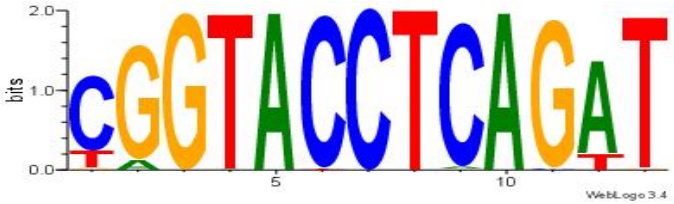

Dataset #: 1
Motif ID: 326
Motif name: Motif 326
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0875405

Alignment:
GACATGGAGTCAAAGG
----SGTGACGTCA--

Original motif Consensus sequence: GACATGGAGTCAAAGG

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

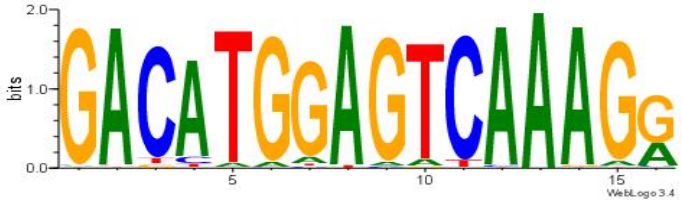

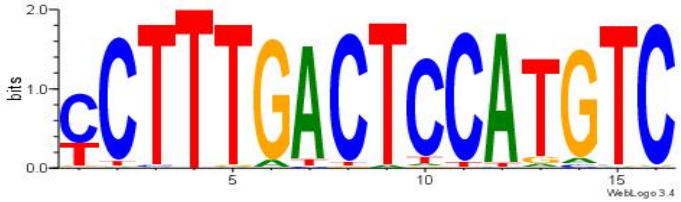

Dataset #:	1
Motif ID:	249
Motif name:	Motif 249
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0879065

Alignment:

```
TGTGAAGAGACCACCAA
--TGACGTCACS-----
```

Original motif Consensus sequence: TGTGAAGAGACCACCAA

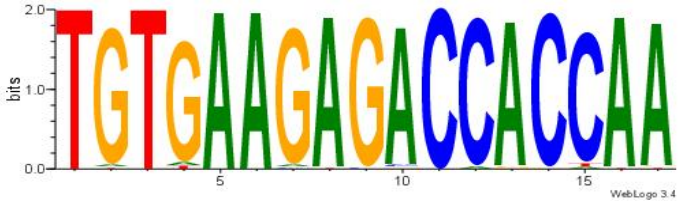

Reverse complement motif Consensus sequence: TTGGTGGTCTCTTCACA

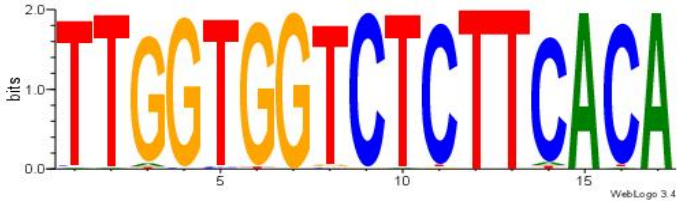

Dataset #:	1

Motif ID:	222
Motif name:	Motif 222
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10
Similarity score:	0.0880301

Alignment:

```
CGAGATCACGCCA
TGACGTCACS---
```

Original motif Consensus sequence: CGAGATCACGCCA

Reverse complement motif Consensus sequence: TGGCGTGATCTCG

Dataset #:	1
Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0882427

Alignment:
GAAATTGACTTCCTCCT
--TGACGTCACS-----

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

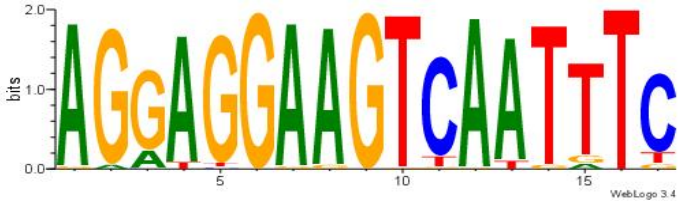

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

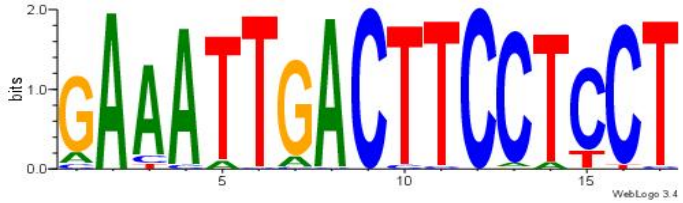

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0884928

Alignment:
GGTGGGGGGGTCAGCCCCC
---SGTGACGTCA------

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

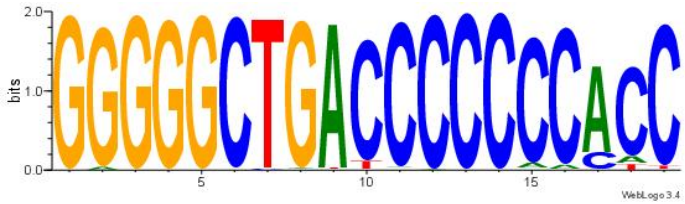

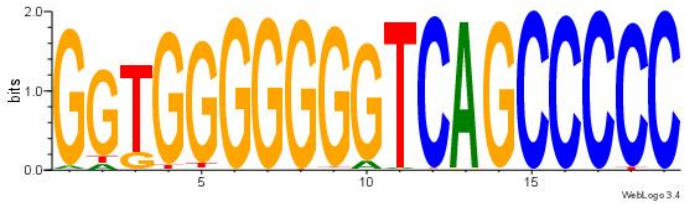

Dataset #:	1
Motif ID:	216
Motif name:	Motif 216
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0916478

Alignment:

```
CAGAAATCACC
-TGACGTCACS
```

Original motif Consensus sequence: CAGAAATCACC

Reverse complement motif Consensus sequence: GGTGATTTCTG

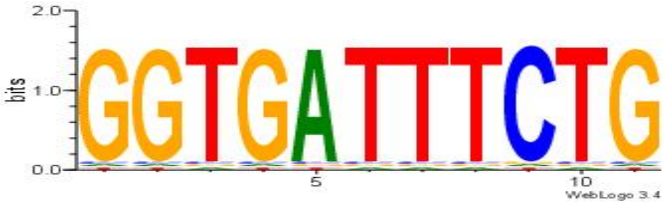

Dataset #:	1
Motif ID:	103

Motif name:	Motif 103
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0921209

Alignment:

```
TTATTTCACTT
-TGACGTCACS
```

Original motif Consensus sequence: AAGTGAAATAA

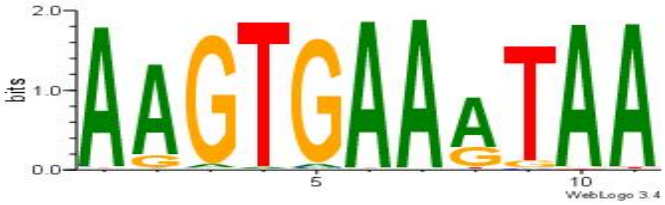

Reverse complement motif Consensus sequence: TTATTTCACTT

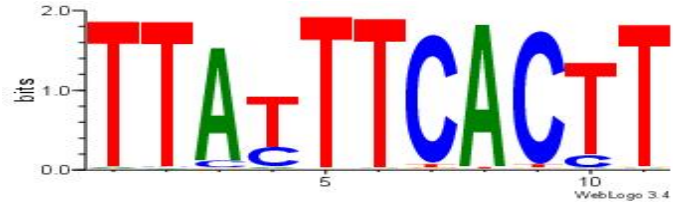

Dataset #:	1
Motif ID:	203
Motif name:	Motif 203
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.0932007

Alignment:
GGACGCCATGG
-TGACGTCACS

Original motif Consensus sequence: CCATGGCGTCC

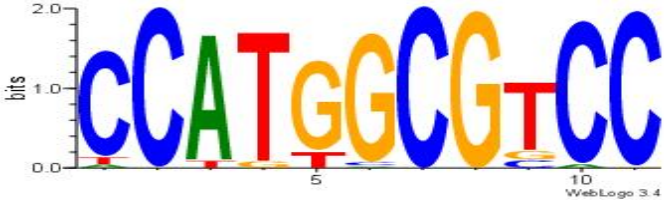

Reverse complement motif Consensus sequence: GGACGCCATGG

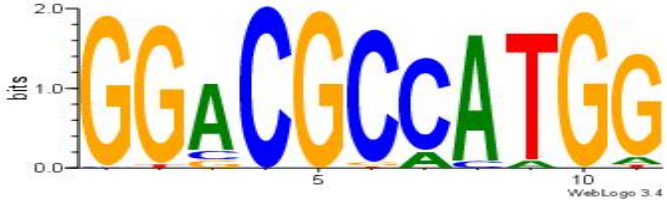

Dataset #:	1
Motif ID:	240
Motif name:	Motif 240
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.0964549

Alignment:
GGGACWGCACAT
-TGACGTCACS-

Original motif Consensus sequence: ATGTGCWGTCCC

Reverse complement motif Consensus sequence: GGGACWGCACAT

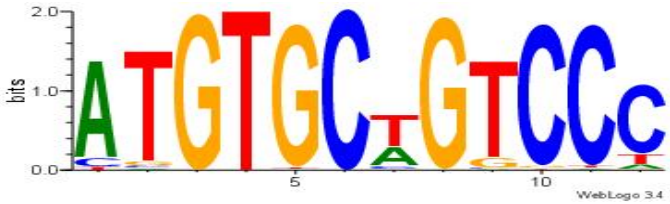

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.0965162

Alignment:

```
ACCTGGAAAATCGGGTCACT
----------TGACGTCACS
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

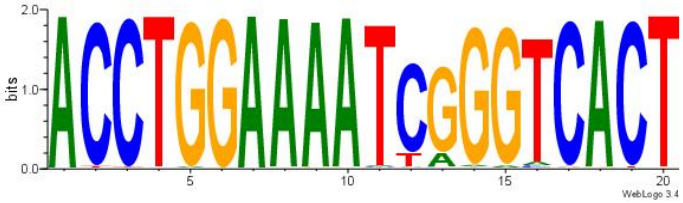

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

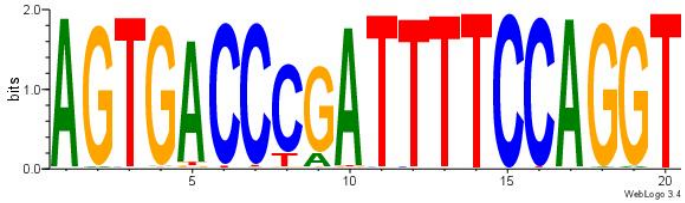

Dataset #: 1

Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0982782

Alignment:

```
GGTTCATCTCACTAGGGAGT
---TGACGTCACS-------
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

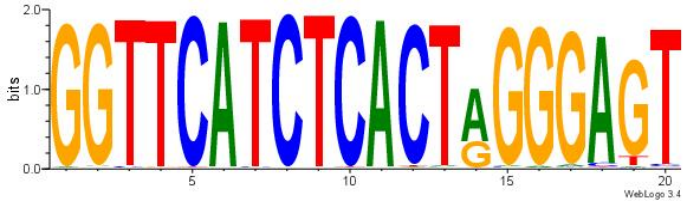

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

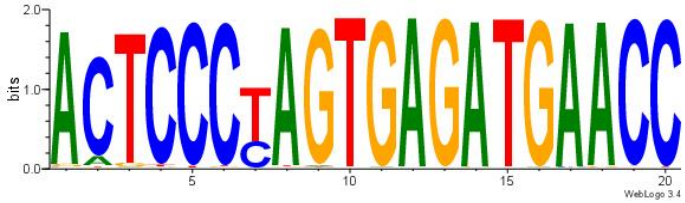

Dataset #:	1
Motif ID:	264
Motif name:	Motif 264
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10

Similarity score: 0.0992147

Alignment:
CCAAGGTCACA
-TGACGTCACS

Original motif Consensus sequence: CCAAGGTCACA

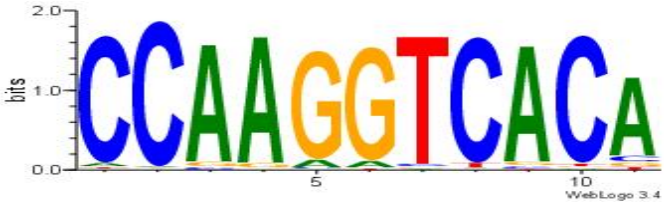

Reverse complement motif Consensus sequence: TGTGACCTTGG

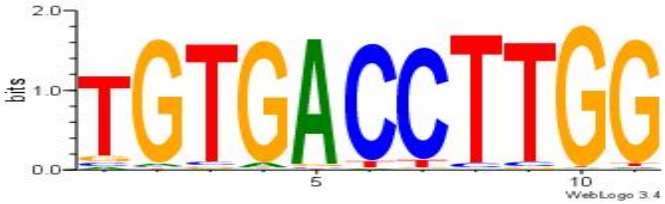

Dataset #: 1
Motif ID: 212
Motif name: Motif 212
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0995094

Alignment:
TAGGGTAGTCAAR
--SGTGACGTCA-

Original motif Consensus sequence: TAGGGTAGTCAAR

Reverse complement motif Consensus sequence: MTTGACTACCCTA

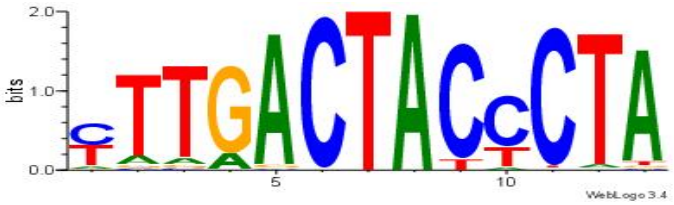

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.102229

Alignment:

```
AAAMAMMKMATGTTCTCACT
TGACGTCACS----------
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

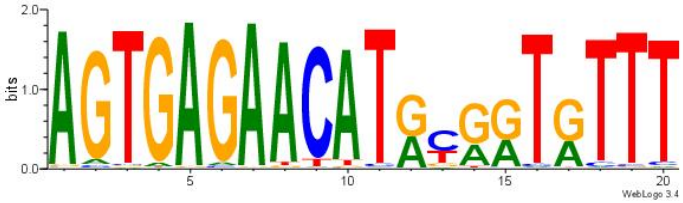

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

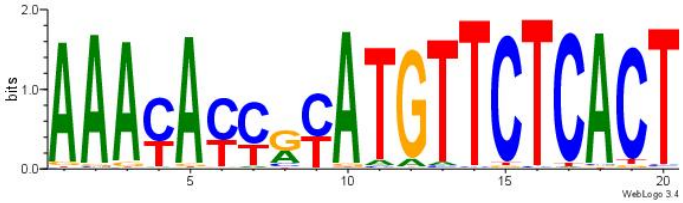

Dataset #: 1

Motif ID:	301
Motif name:	Motif 301
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.102939

Alignment:

```
CCAAGACYCCAGAC
---SGTGACGTCA-
```

Original motif Consensus sequence: CCAAGACYCCAGAC

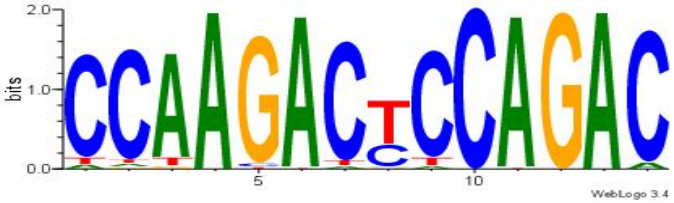

Reverse complement motif Consensus sequence: GTCTGGMGTCTTG

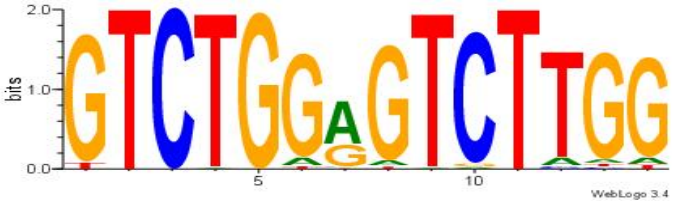

Dataset #:	1
Motif ID:	51
Motif name:	Motif 51
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.103632

Alignment:
GTGGGTGCGCGCA
SGTGACGTCA---

Original motif Consensus sequence: GTGGGTGCGCGCA

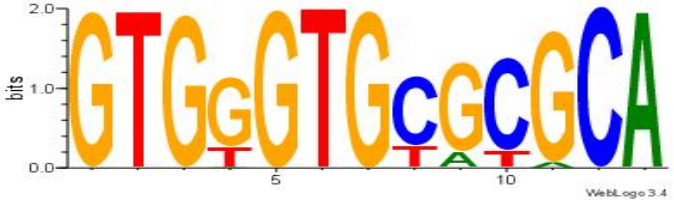

Reverse complement motif Consensus sequence: TGCGCGCACCCAC

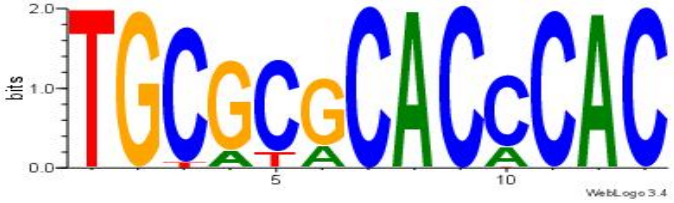

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	10
Similarity score:	0.103789

Alignment:
ACACATCACAAAGCAGTTTC
TGACGTCACS----------

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

Reverse complement motif Consensus sequence:
GAAACTGCTTTGTGATGTGT

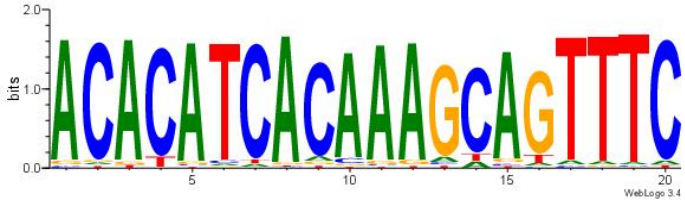

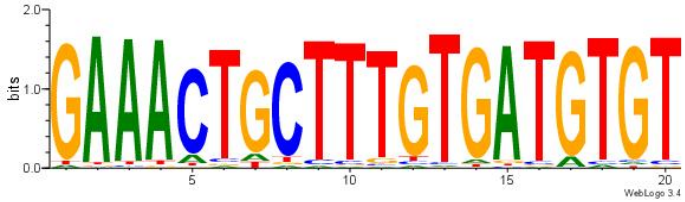

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.104489

Alignment:

```
ARCTCCTGKSCTCAAGKGAT
----TGACGTCACS------
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

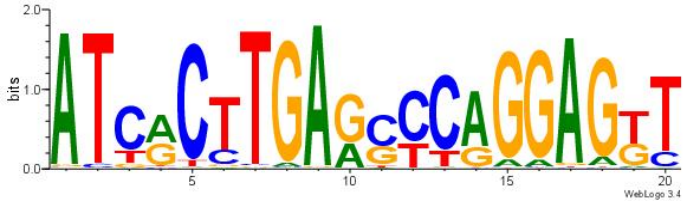

Reverse complement motif Consensus sequence:
ARCTCCTGKSCTCAAGKGAT

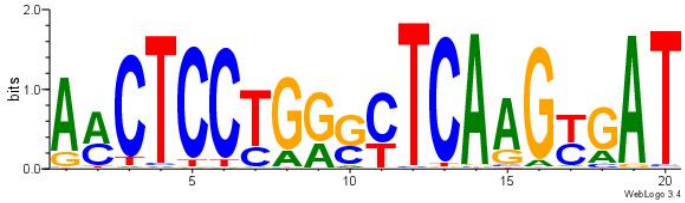

Dataset #:	1

Motif ID:	191
Motif name:	Motif 191
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.104517

Alignment:

```
AAAGTGCCGAGAKTGCAGC
--SGTGACGTCA-------
```

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

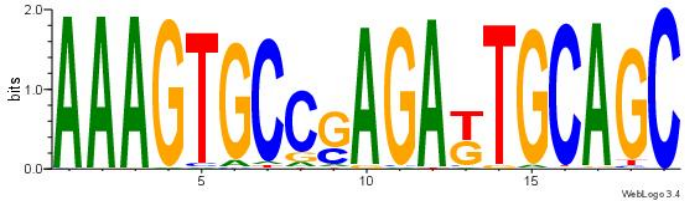

Reverse complement motif Consensus sequence: GCTGCARTCTCGGCACTTT

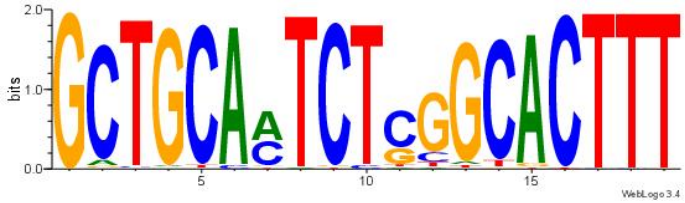

Dataset #:	1
Motif ID:	261
Motif name:	Motif 261
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	10

Similarity score: 0.106218

Alignment:
ATCTCASAAATCACCACTA
-----TGACGTCACS----

Original motif Consensus sequence: ATCTCASAAATCACCACTA

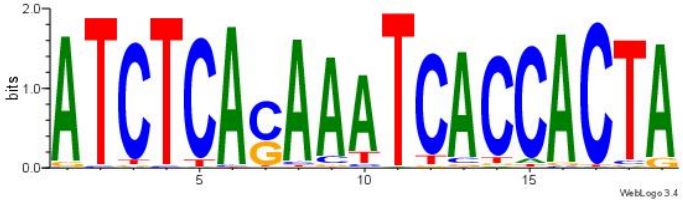

Reverse complement motif Consensus sequence: TAGTGGTGATTTSTGAGAT

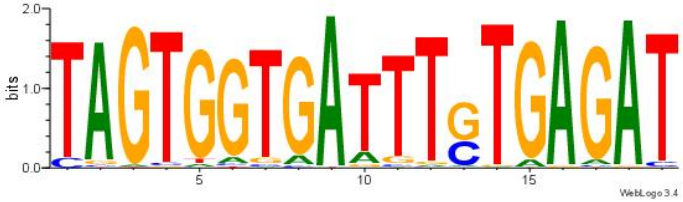

Dataset #:	1
Motif ID:	133
Motif name:	Motif 133
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.107144

Alignment:
TGGGGACMCAG
-TGACGTCACS

Original motif Consensus sequence: CTGYGTCCCCA

Reverse complement motif Consensus sequence: TGGGGACMCAG

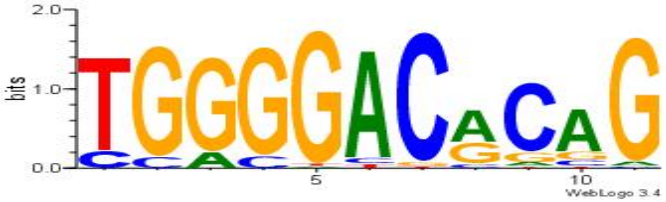

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.107235

Alignment:

```
TGCTGGAGGTCCACTCCAGA
--SGTGACGTCA--------
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

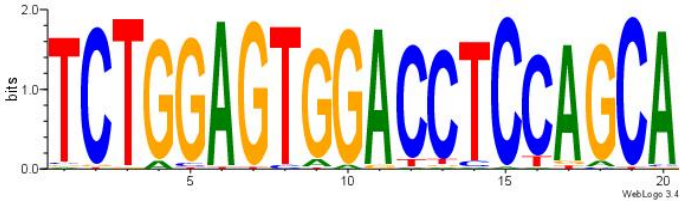

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

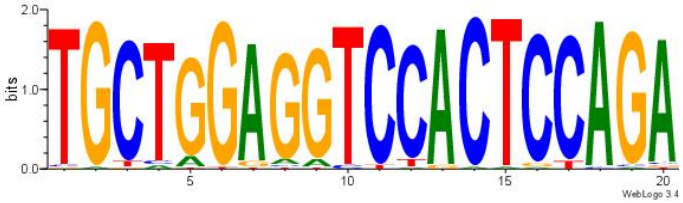

Dataset #: 1

Motif ID:	118
Motif name:	Motif 118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.107734

Alignment:

```
GGAGGATCACKTGAG
----SGTGACGTCA-
```

Original motif Consensus sequence: CTCARGTGATCCTCC

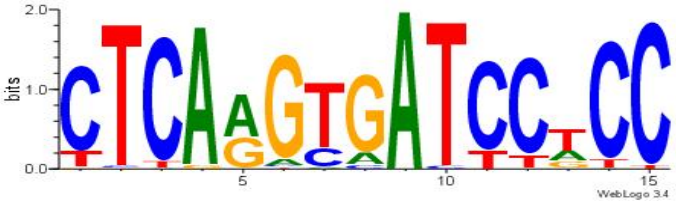

Reverse complement motif Consensus sequence: GGAGGATCACKTG

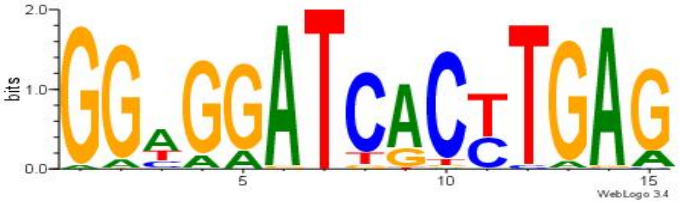

Dataset #:	1
Motif ID:	6
Motif name:	Motif 6
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.10782

Alignment:
GAGSTTGCAGTGAGC
---SGTGACGTCA--

Original motif Consensus sequence: GCTCACTGCAASCTC

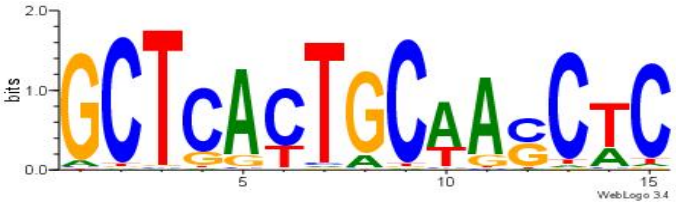

Reverse complement motif Consensus sequence: GAGSTTGCAGTGA

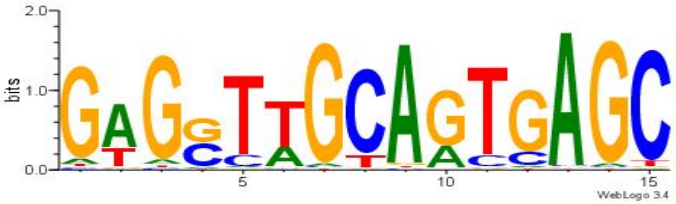

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.108551

Alignment:
AATGAKATCATGTCYTTTGC
--------TGACGTCACS--

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

Reverse complement motif Consensus sequence:
AATGAKATCATGTCYTTTGC

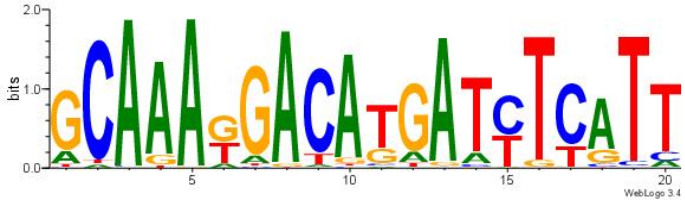

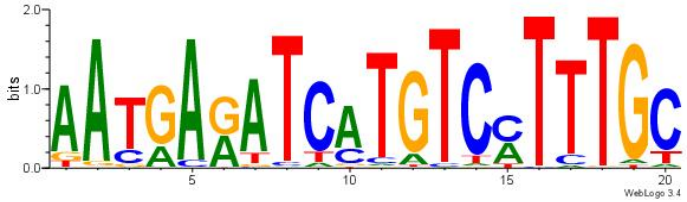

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.109155

Alignment:

```
TCKMGCCACTGCACTCCAGC
----------TGACGTCACS
```

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

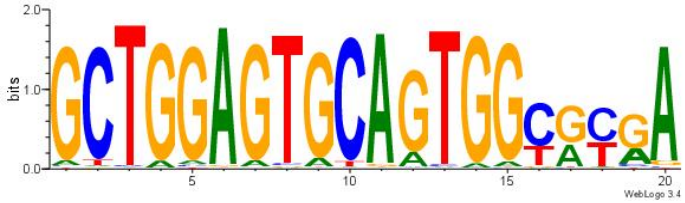

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

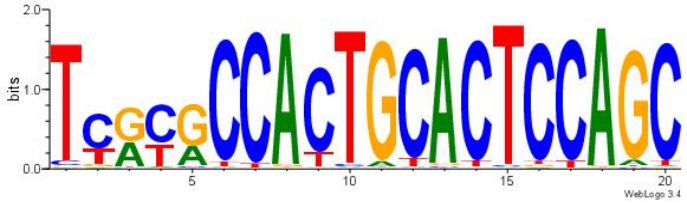

Dataset #: 1

Motif ID:	174
Motif name:	Motif 174
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.109274

Alignment:

```
GGGGTGAVCAGAT
-SGTGACGTCA--
```

Original motif Consensus sequence: GGGGTGAVCAGAT

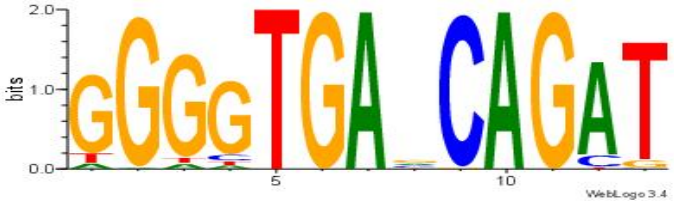

Reverse complement motif Consensus sequence: ATCTGVTCACCCC

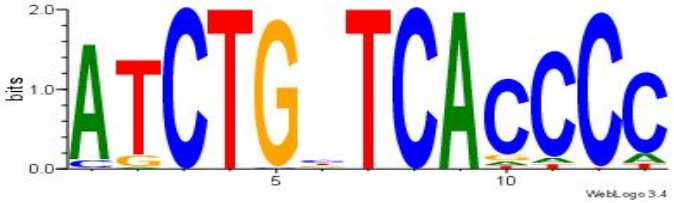

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.110085

Alignment:
ATTGGTGTATTTACAATCCC
-------SGTGACGTCA---

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence:
GGGATTGTAAATACACCAAT

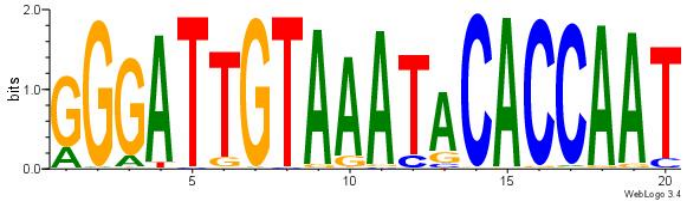

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.110181

Alignment:
TTGGTAGGATCCGTGATGCC
------SGTGACGTCA----

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

Reverse complement motif Consensus sequence:
TTGGTAGGATCCGTGATGCC

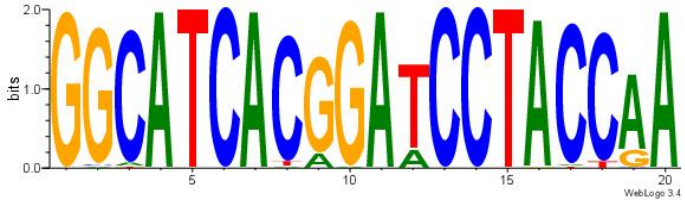

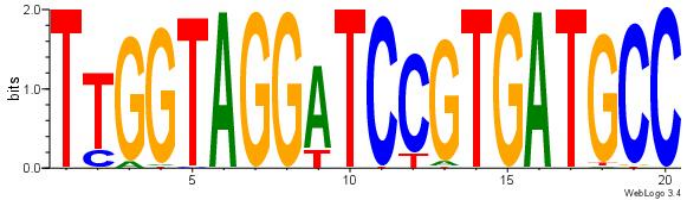

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.110209

Alignment:

```
GCACTGAGTGAACGA
----TGACGTCACS-
```

Original motif Consensus sequence: GCACTGAGTGAACGA

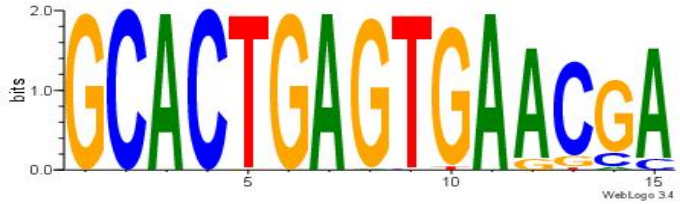

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

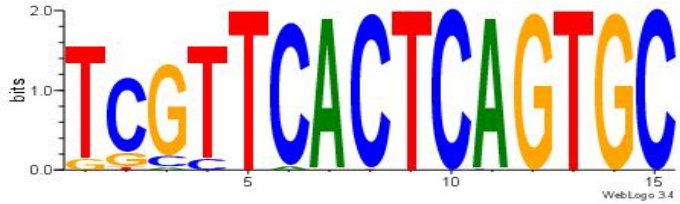

Dataset #:	1
Motif ID:	112

Motif name:	Motif 112
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.11082

Alignment:

```
CTTGCCCAAGGTCACACAGC
----TGACGTCACS------
```

Original motif Consensus sequence: GCTGTGTGACCTTGGGCAAG

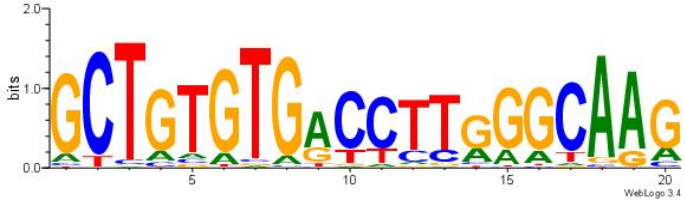

Reverse complement motif Consensus sequence: CTTGCCCAAGGTCACACAGC

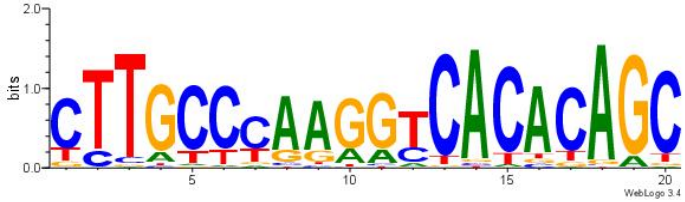

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.110924

Alignment:
CTGGCCCTCAATGGTTAAAC
----------SGTGACGTCA

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

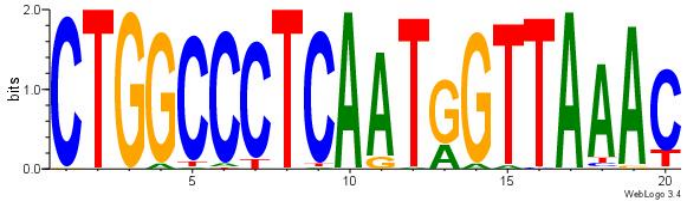

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

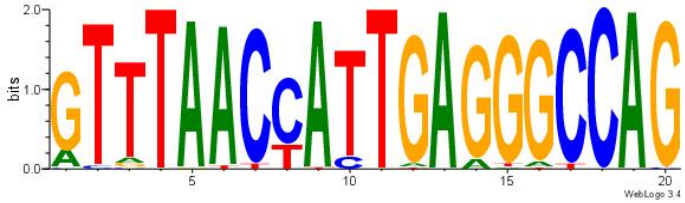

Dataset #:	1
Motif ID:	178
Motif name:	Motif 178
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.110971

Alignment:
ATGTGGAGGTGGAAGACAGT
--------SGTGACGTCA--

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence: ATGTGGAGGTGGAAGACAGT

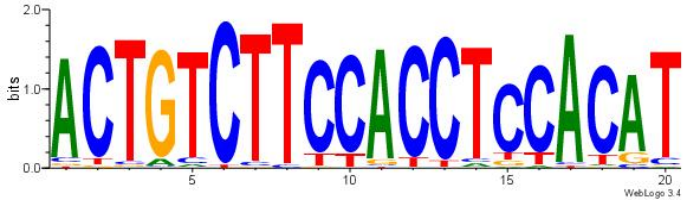

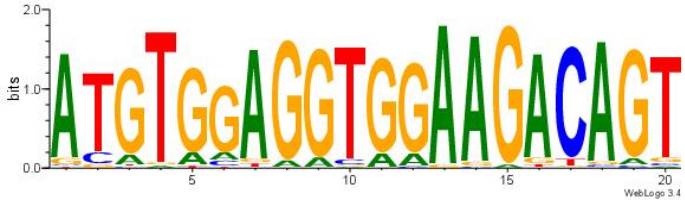

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.111227

Alignment:

```
GGAGCCCACGGAGG
----TGACGTCACS
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

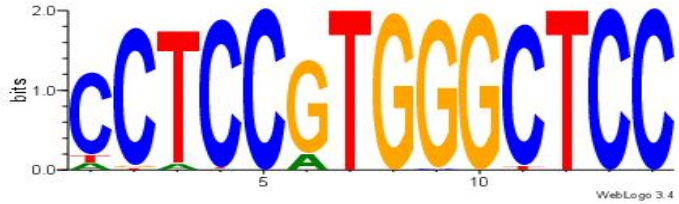

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

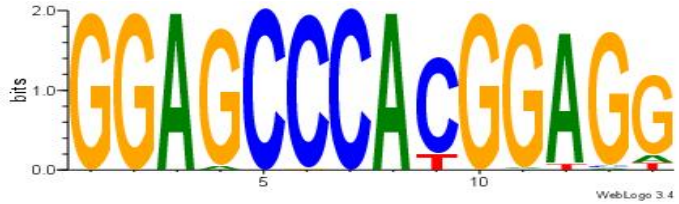

Dataset #:	1
Motif ID:	358

Motif name:	Motif 358
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.111357

Alignment:

```
GGGGTGATGGACG
--SGTGACGTCA-
```

Original motif Consensus sequence: CGTCCATCACCCC

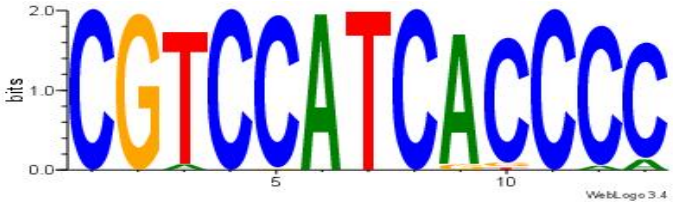

Reverse complement motif Consensus sequence: GGGGTGATGGACG

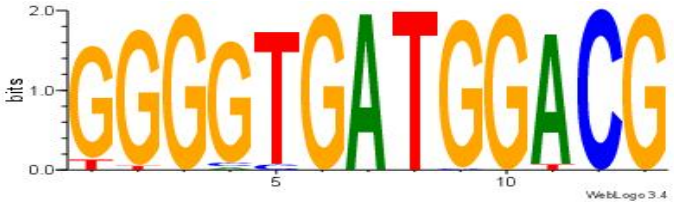

Dataset #:	1
Motif ID:	101
Motif name:	Motif 101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.111702

Alignment:
CGCCGCCGCCGC
TGACGTCACS--

Original motif Consensus sequence: CGCCGCCGCCGC

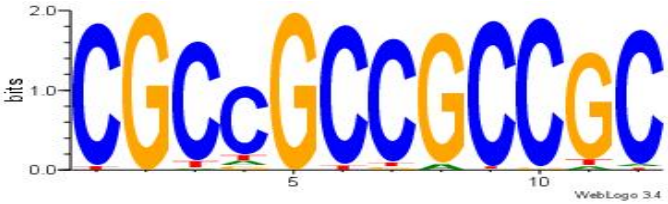

Reverse complement motif Consensus sequence: GCGGCGGCGGCG

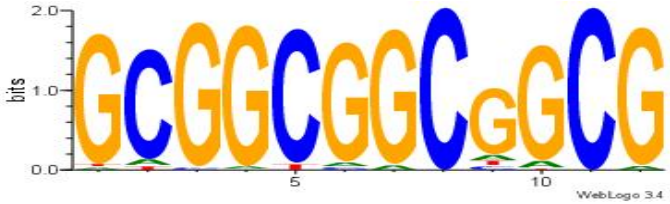

Dataset #:	1
Motif ID:	255
Motif name:	Motif 255
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.112139

Alignment:
CTGCTATAACAAA
-TGACGTCACS--

Original motif Consensus sequence: CTGCTATAACAAA

Reverse complement motif Consensus sequence: TTTGTTATAGCAG

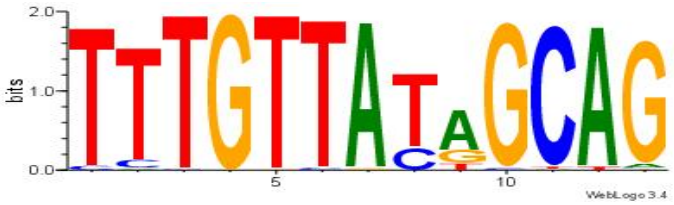

Dataset #:	1
Motif ID:	1
Motif name:	Motif 1
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.112141

Alignment:

```
BCVTCTGTCACCCC
--TGACGTCACS--
```

Original motif Consensus sequence: GGGGTGACAGABGB

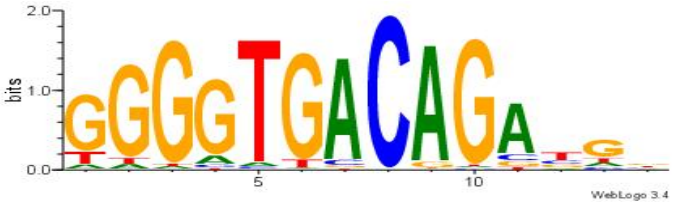

Reverse complement motif Consensus sequence: BCVTCTGTCACCC

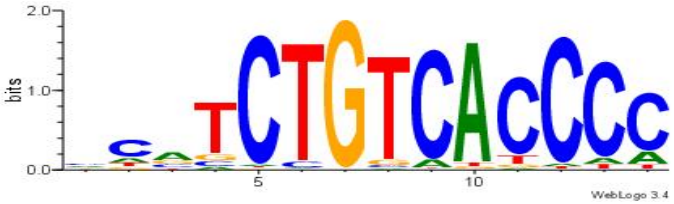

Dataset #:	1
Motif ID:	312

Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	10
Similarity score:	0.112367

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-----SGTGACGTCA-----
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

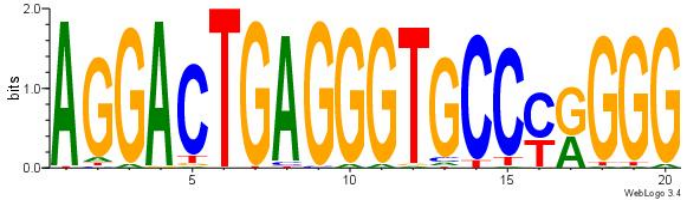

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

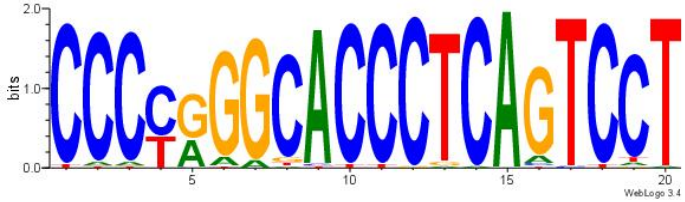

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.112419

Alignment:
CATTCTGGGGTCTGGAGGAY
-----TGACGTCACS-----

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

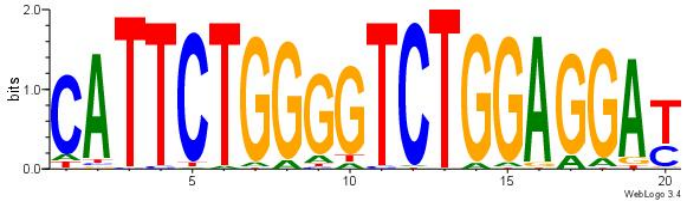

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

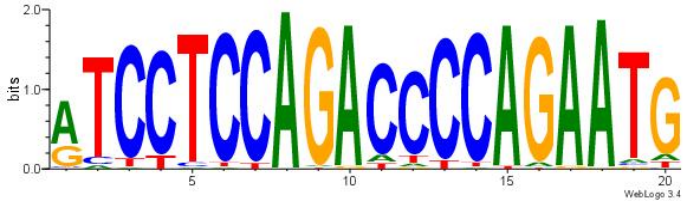

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	10
Similarity score:	0.112542

Alignment:
ACATCMTCTGAAATCTAGG
-TGACGTCACS--------

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

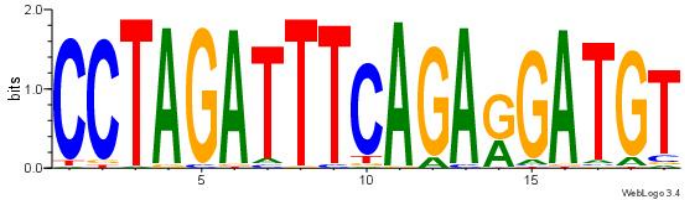

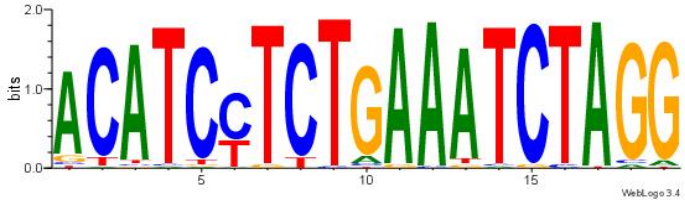

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.112545

Alignment:

```
AGATGCCAGCCAGAGCTCT
TGACGTCACS---------
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

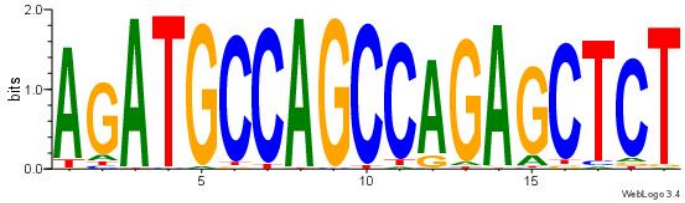

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

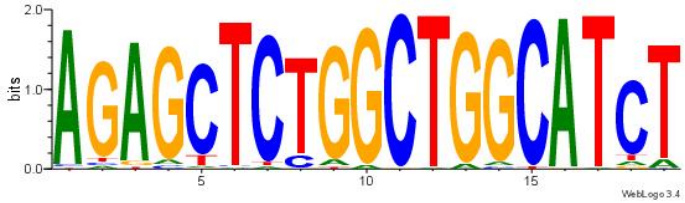

Dataset #: 1

Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.112778

Alignment:

```
ATCTGACAGGAGGYRGAGCT
---TGACGTCACS-------
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

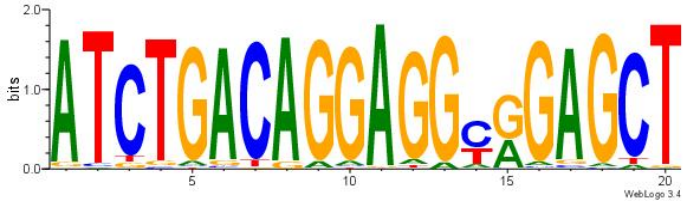

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

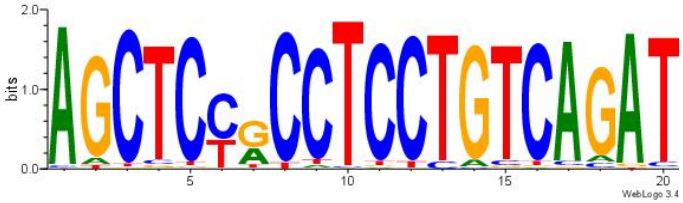

Dataset #: 1 Motif ID: 360 Motif name: Motif 360

Original motif Consensus sequence: CAATGGGGTG

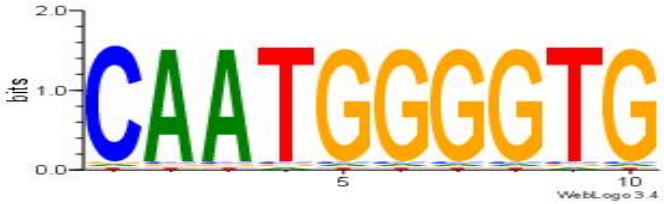

Reverse complement motif Consensus sequence: CACCCCATTG

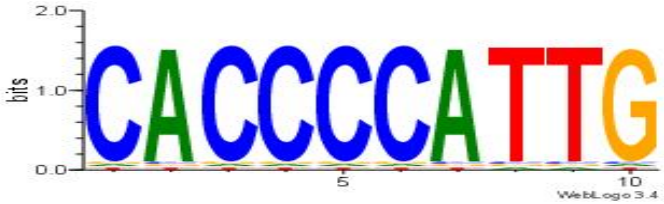

Best Matches for Motif ID 360 (Highest to Lowest)

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	10
Similarity score:	0.0498627

Alignment:

```
ATACAATGGGGGTACAGRC
---CAATGGGGTG------
```

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

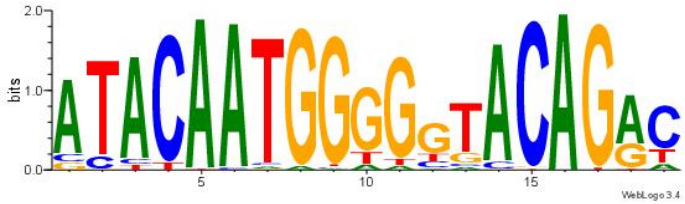

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

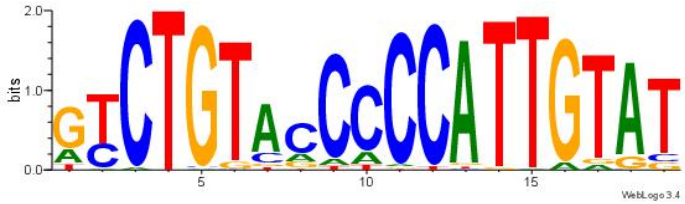

Dataset #:	1
Motif ID:	284
Motif name:	Motif 284
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0546882

Alignment:

```
TCAATGGGCTCCCAAATG
-------CAATGGGGTG-
```

Original motif Consensus sequence: CATTTGGGAGCCCATTGA

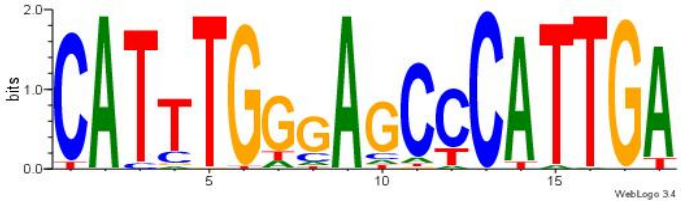

Reverse complement motif Consensus sequence: TCAATGGGCTCCCAAATG

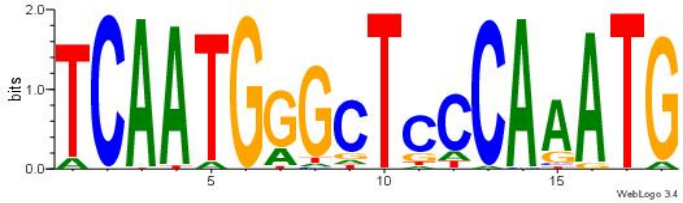

Dataset #:	1
Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.0575203

Alignment:

```
CMCAGTTCACAATAGGGTT
CAATGGGGTG---------
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

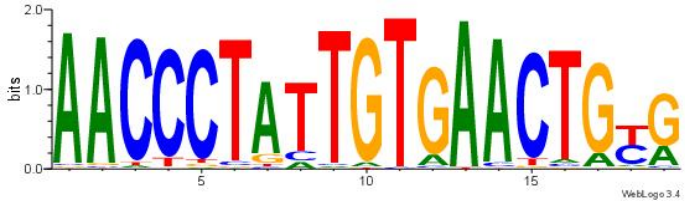

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

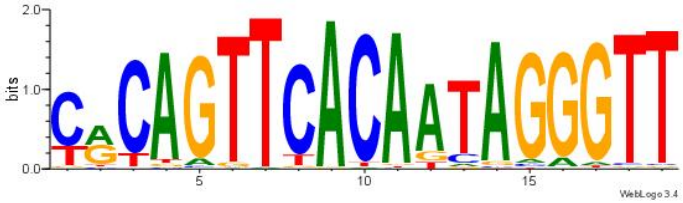

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0718758

Alignment:

```
GGTTCATCTCACTAGGGAGT
---------CAATGGGGTG-
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

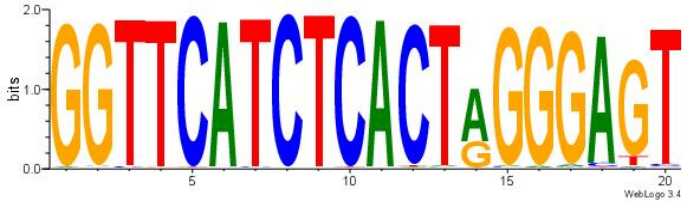

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

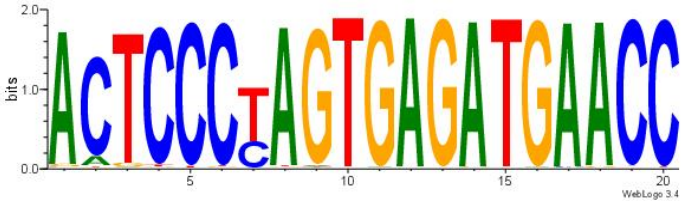

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0732908

Alignment:

```
GCTCCACCCAGTTCGAGCTT
----CACCCCATTG------
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

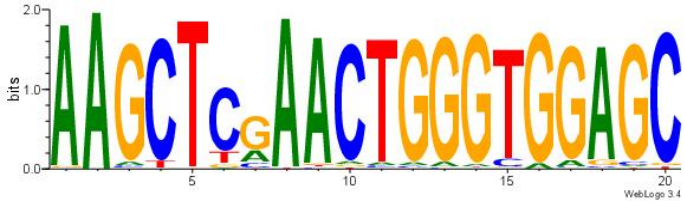

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

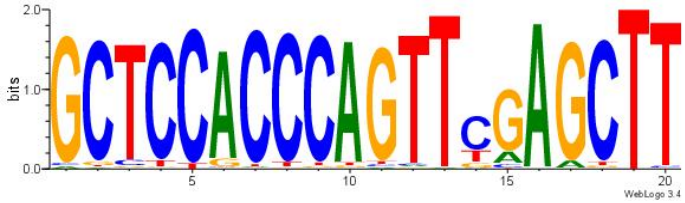

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10

Number of overlap: 10
Similarity score: 0.0762232

Alignment:
GCTGGAGTGCAGTGGCRYGA
---------CAATGGGGTG-

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

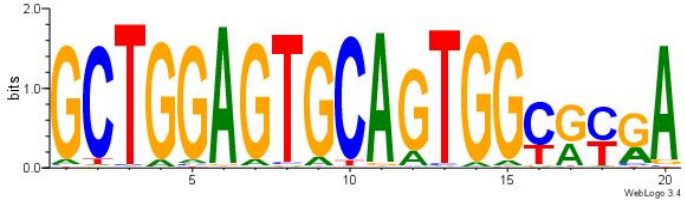

Reverse complement motif Consensus sequence: TCKMGCCACTGCACTCCAGC

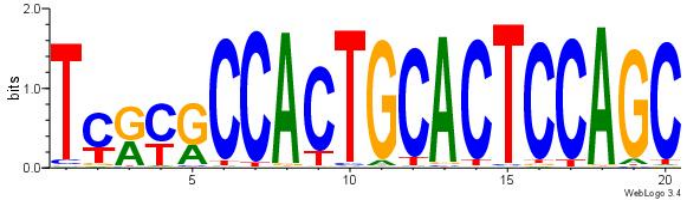

Dataset #: 1
Motif ID: 196
Motif name: Motif 196
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 10
Similarity score: 0.0764399

Alignment:
CAAGCCTSKGCAATGGCAGG
CAATGGGGTG----------

Original motif Consensus sequence: CCTGCCATTGCYSAGGCTTG

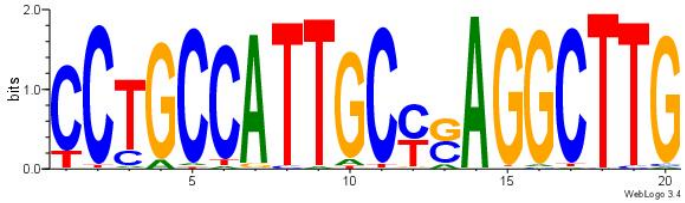

Reverse complement motif Consensus sequence: CAAGCCTSKGCAATGGCAGG

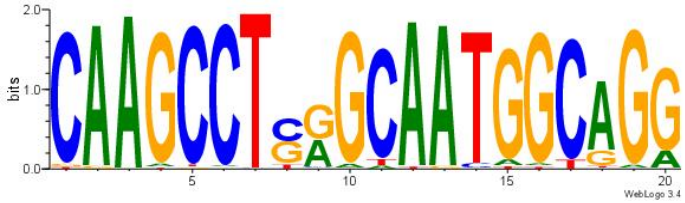

Dataset #:	1
Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0771109

Alignment:

```
GCCAATTTCTCCCATTTGGA
--------CACCCCATTG--
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

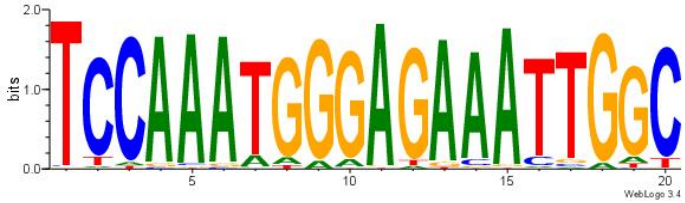

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

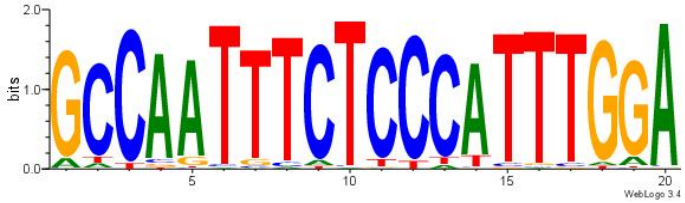

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0788646

Alignment:

```
AGGCCCCAGTGTSTGTTGTT
---------CACCCCATTG-
```

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

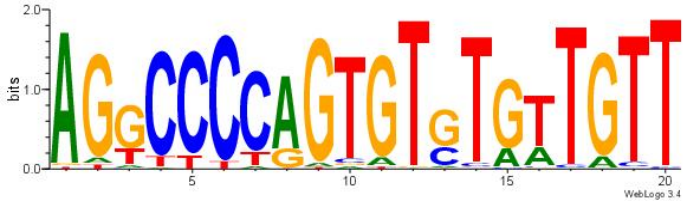

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

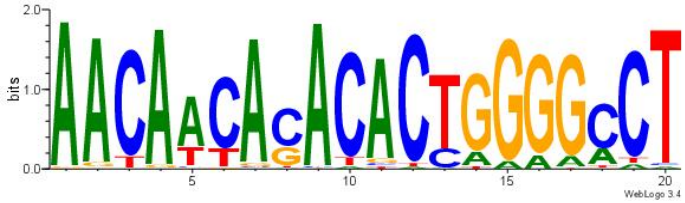

Dataset #:	1
Motif ID:	83
Motif name:	Motif 83
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10

Number of overlap: 10
Similarity score: 0.0806064

Alignment:
AAAATGTGGTAYATAYAYAC
-CAATGGGGTG---------

Original motif Consensus sequence: AAAATGTGGTAYATAYAYAC

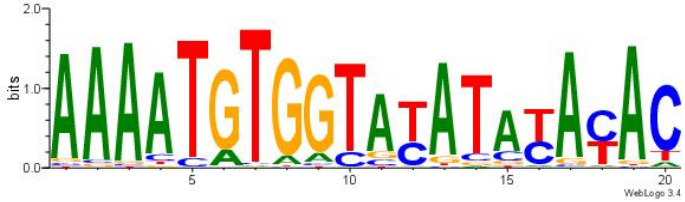

Reverse complement motif Consensus sequence: GTKTMTATMTACCACATTTT

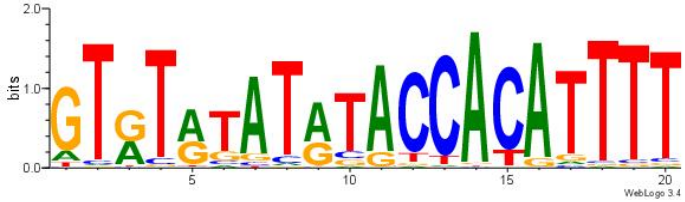

Dataset #: 1
Motif ID: 232
Motif name: Motif 232
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0806159

Alignment:
AAGTCTCCCAATTACAACT
----CACCCCATTG-----

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

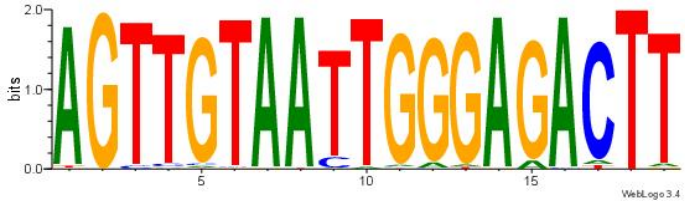

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

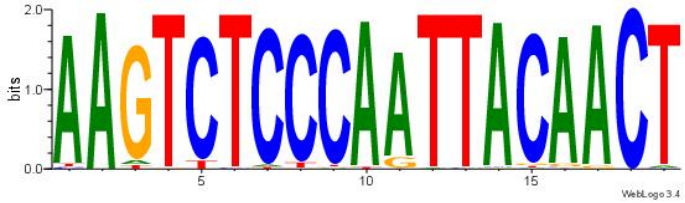

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0808709

Alignment:

```
AGTGACCCGATTTTCCAGGT
---CACCCCATTG-------
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

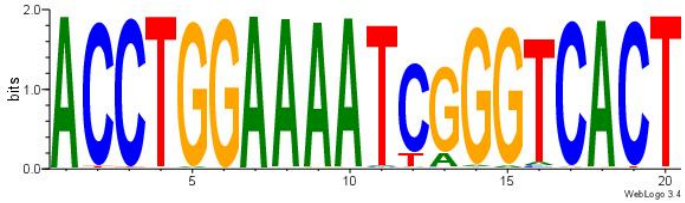

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

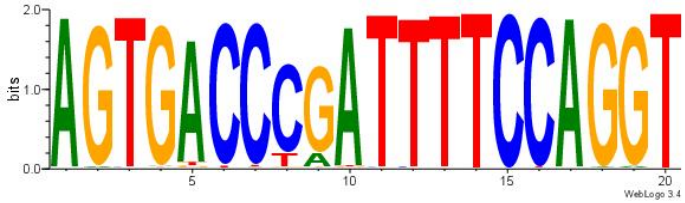

Dataset #:	1
Motif ID:	259
Motif name:	Motif 259
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.0831707

Alignment:

```
TAATAAGGGTGTGGG
--CAATGGGGTG---
```

Original motif Consensus sequence: CCCACACCCTTATTA

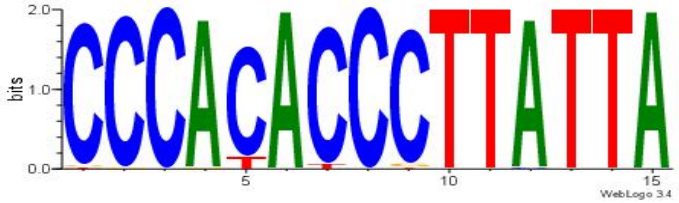

Reverse complement motif Consensus sequence: TAATAAGGGTGTG

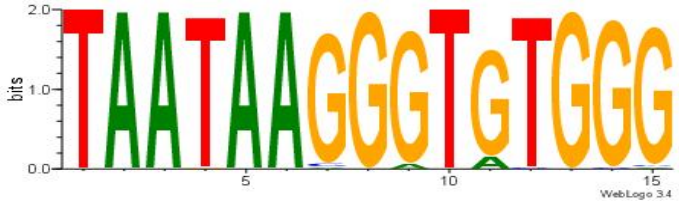

Dataset #:	1
Motif ID:	147
Motif name:	Motif 147
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	10

Similarity score: 0.0853358

Alignment:
TCAATGGTGCCCAG
---CAATGGGGTG-

Original motif Consensus sequence: CTGGGCACCATTGA

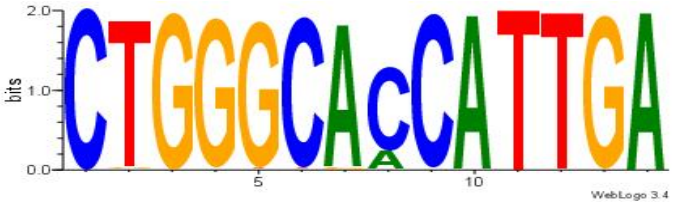

Reverse complement motif Consensus sequence: TCAATGGTGCCCA

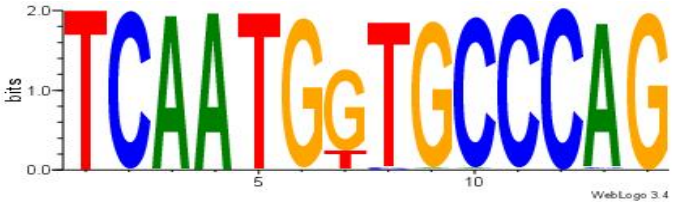

Dataset #: 1
Motif ID: 203
Motif name: Motif 203
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 10
Similarity score: 0.0860926

Alignment:
GGACGCCATGG
-CACCCCATTG

Original motif Consensus sequence: CCATGGCGTCC

Reverse complement motif Consensus sequence: GGACGCCATGG

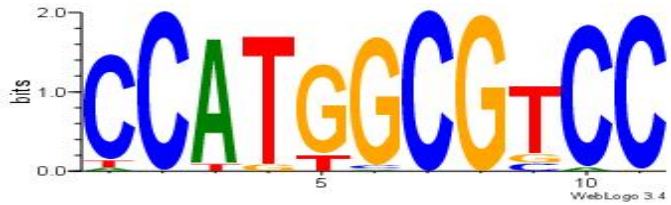

Dataset #:	1
Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	10
Similarity score:	0.0861376

Alignment:

```
GCTCTCAATTGGTCATT
-CACCCCATTG------
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

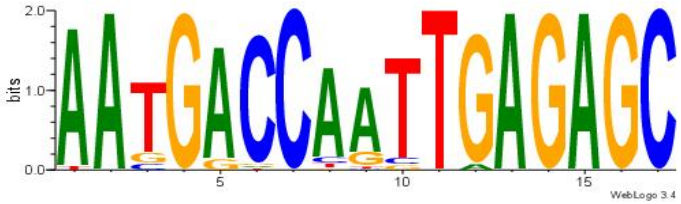

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

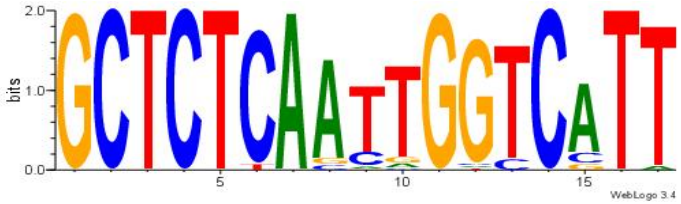

Dataset #: 1

Motif ID:	61
Motif name:	Motif 61
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.0862345

Alignment:

```
TGGCTTCACCCAGTGGATCC
------CACCCCATTG----
```

Original motif Consensus sequence: GGATCCACTGGGTGAAGCCA

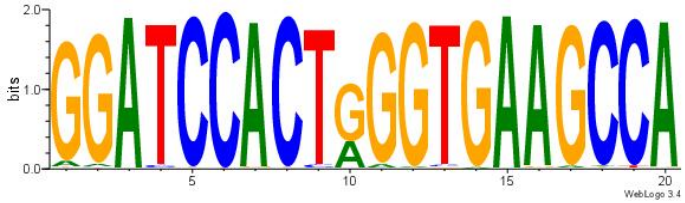

Reverse complement motif Consensus sequence: TGGCTTCACCCAGTGGATCC

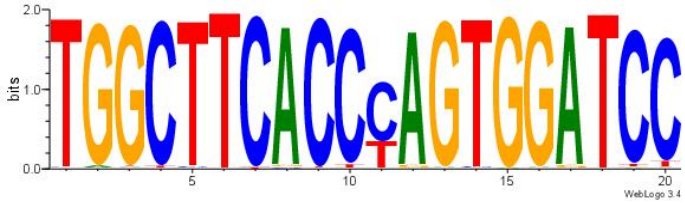

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10

Similarity score: 0.0899609

Alignment:
CACTAGGGAGTGCC
--CAATGGGGTG--

Original motif Consensus sequence: CACTAGGGAGTGCC

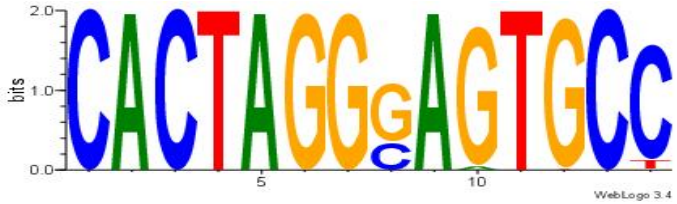

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

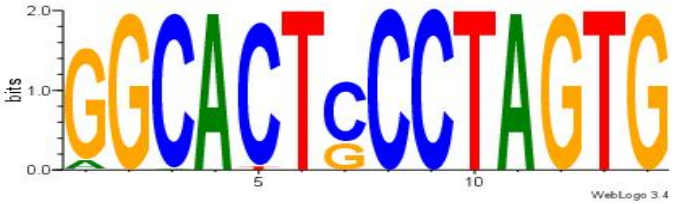

Dataset #: 1
Motif ID: 339
Motif name: Motif 339
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 10
Similarity score: 0.090909

Alignment:
GCAGGAGGTGAG
--CAATGGGGTG

Original motif Consensus sequence: CTCACCTCCTGC

Reverse complement motif Consensus sequence: GCAGGAGGTGAG

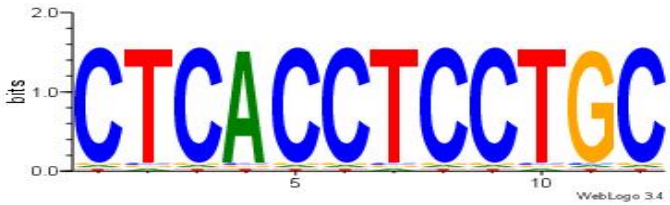

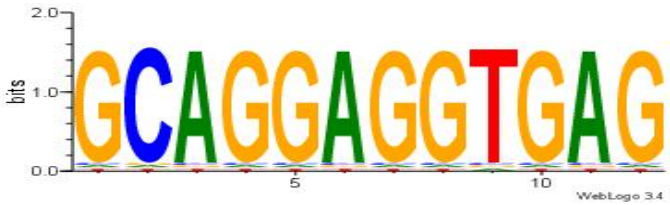

Dataset #:	1
Motif ID:	155
Motif name:	Motif 155
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0919755

Alignment:

```
TCCCTCCCGGACGGGGYGGC
--------CAATGGGGTG--
```

Original motif Consensus sequence: TCCCTCCCGGACGGGGYGGC

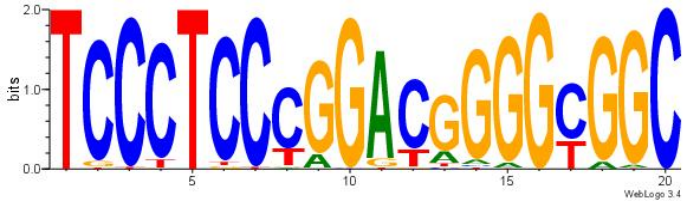

Reverse complement motif Consensus sequence: GCCKCCCCGTCCGGGAGGGA

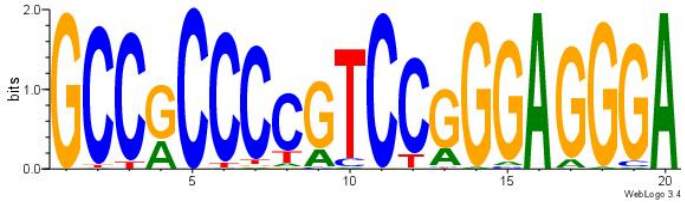

Dataset #:	1

Motif ID:	120
Motif name:	Motif 120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0938137

Alignment:

```
CCATGTGSTCCC
CAATGGGGTG--
```

Original motif Consensus sequence: CCATGTGSTCCC

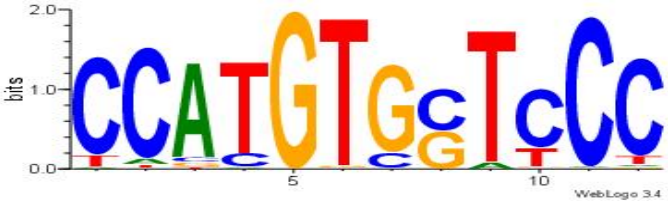

Reverse complement motif Consensus sequence: GGGASCACATGG

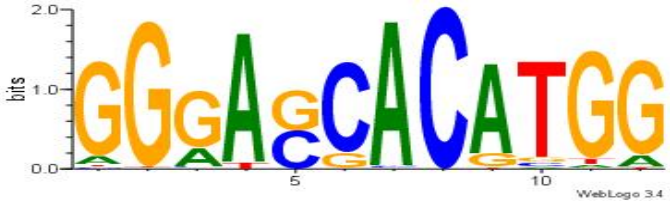

Dataset #:	1
Motif ID:	58
Motif name:	Motif 58
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	10
Similarity score:	0.0950167

Alignment:
GAAHCAACCKAAKTGTCCAT
-----CACCCCATTG-----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

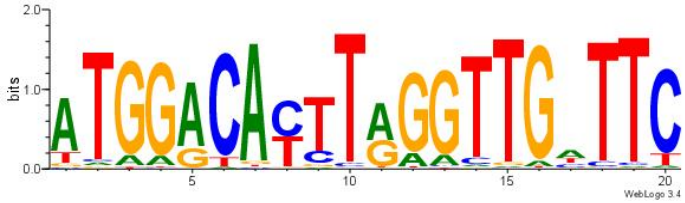

Reverse complement motif Consensus sequence:
GAAHCAACCKAAKTGTCCAT

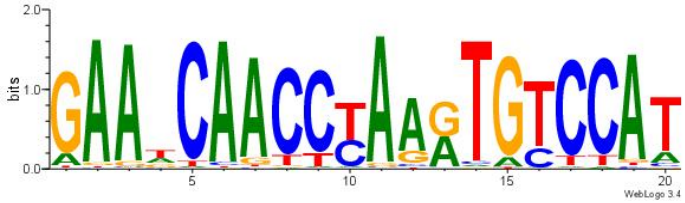

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	10
Similarity score:	0.0962287

Alignment:
CACTTCCCAGACGGGGCG
--------CAATGGGGTG

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

Reverse complement motif Consensus sequence:
CGCCCCGTCTGGGAAGTG

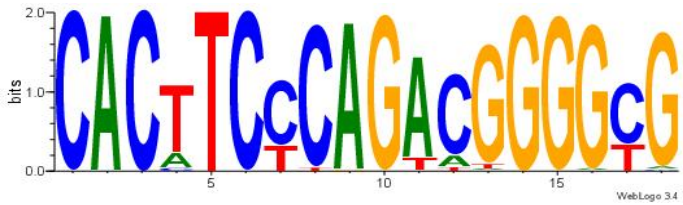

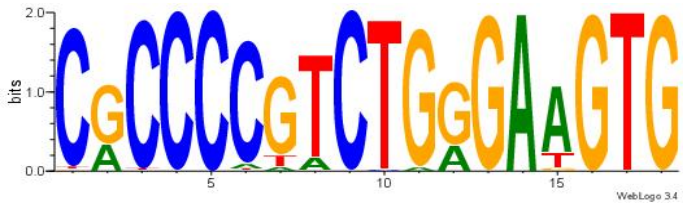

Dataset #: 1
Motif ID: 292
Motif name: Motif 292
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 10
Similarity score: 0.0974196

Alignment:
AAGACCTTCCAGTGGGACAA
---------CAATGGGGTG-

Original motif Consensus sequence: AAGACCTTCCAGTGGGACAA

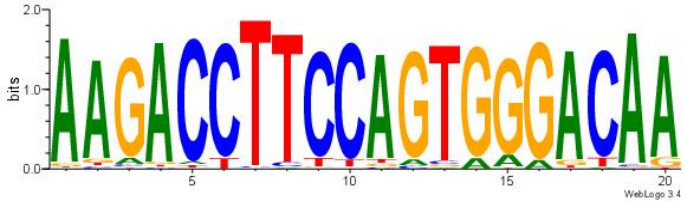

Reverse complement motif Consensus sequence: TTGTCCCACTGGAAGGTCTT

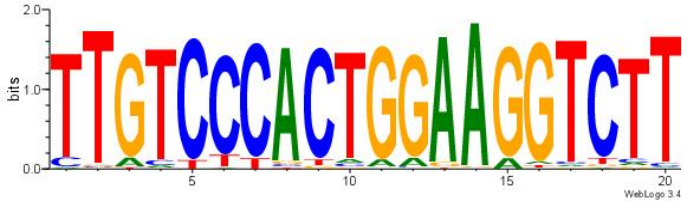

Dataset #: 1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	10
Similarity score:	0.0974199

Alignment:

```
CCACCACAGCTCAAGGAGGC
---------CACCCCATTG-
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

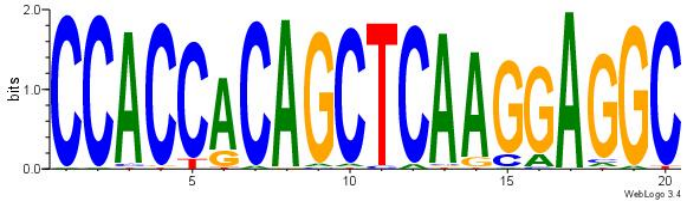

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

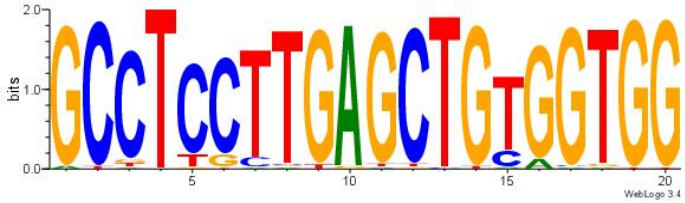

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	10

Similarity score: 0.0974588

Alignment:
CTGGCCCTCAATGGTTAAAC
------CACCCCATTG----

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

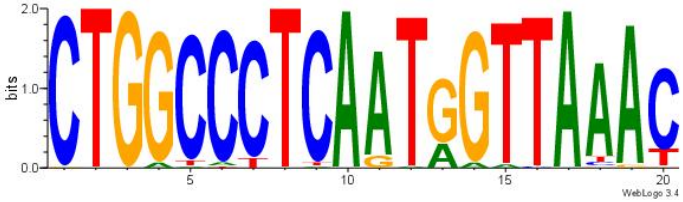

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

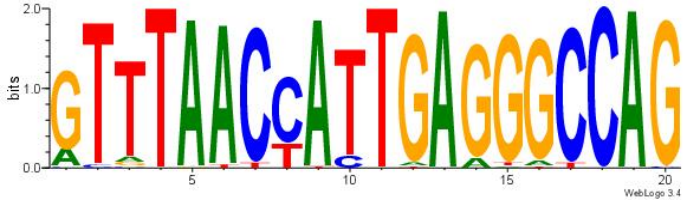

Dataset #: 1
Motif ID: 108
Motif name: Motif 108
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 10
Similarity score: 0.0979723

Alignment:
GCGCTCKTCGGGGAGGCTCG
-----CAATGGGGTG-----

Original motif Consensus sequence: CGAGCCTCCCCGAYGAGCGC

Reverse complement motif Consensus sequence: GCGCTCKTCGGGGAGGCTCG

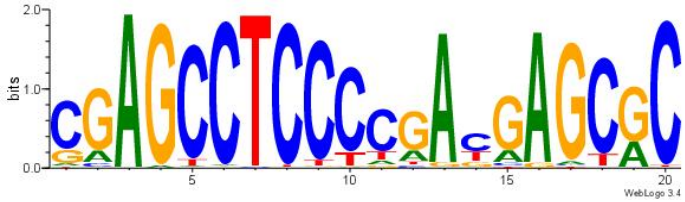

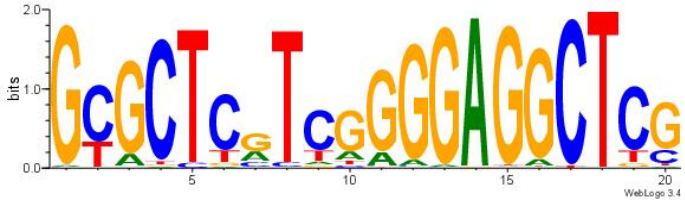

Dataset #:	1
Motif ID:	202
Motif name:	Motif 202
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	10
Similarity score:	0.0982275

Alignment:

```
GAAACTGCTTTGTGATGTGT
---CAATGGGGTG-------
```

Original motif Consensus sequence: ACACATCACAAAGCAGTTTC

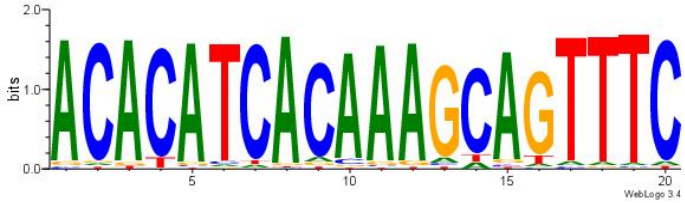

Reverse complement motif Consensus sequence: GAAACTGCTTTGTGATGTGT

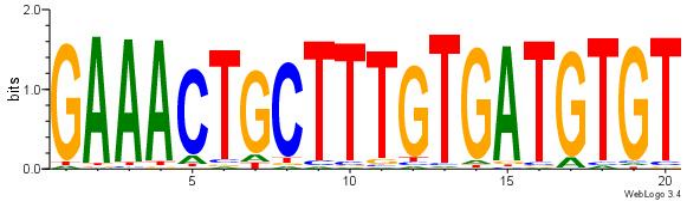

Dataset #:	1

Motif ID:	194
Motif name:	Motif 194
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	10
Similarity score:	0.0986858

Alignment:

```
CAAGGGTATAYGAGTAGCTG
CAATGGGGTG----------
```

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

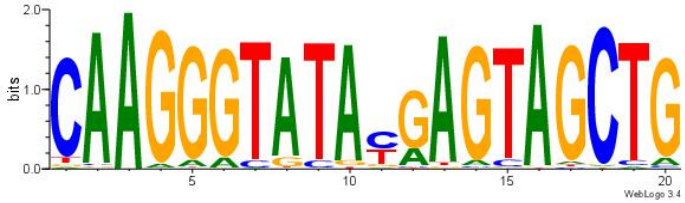

Reverse complement motif Consensus sequence: CAGCTACTCKTATACCCTTG

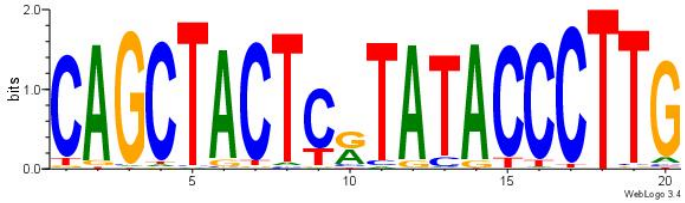

Dataset #:	1
Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	10

Similarity score: 0.0989272

Alignment:
CAAAGGCATAAGAATGAT
CAATGGGGTG--------

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

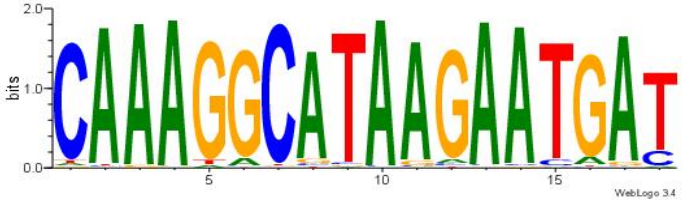

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

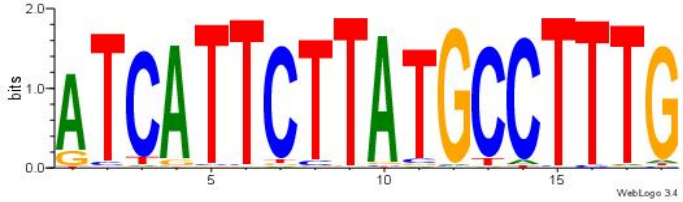

Dataset #: 1
Motif ID: 122
Motif name: Motif 122
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 10
Similarity score: 0.0990191

Alignment:
CTTTCTGGGCTGGCCAAGG
-------CAATGGGGTG--

Original motif Consensus sequence: CCTTGGCCAGCCCAGAAAG

Reverse complement motif Consensus sequence: CTTTCTGGGCTGGCCAAGG

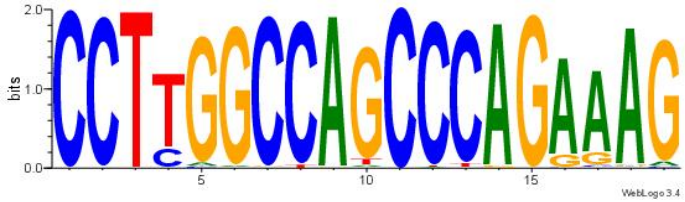

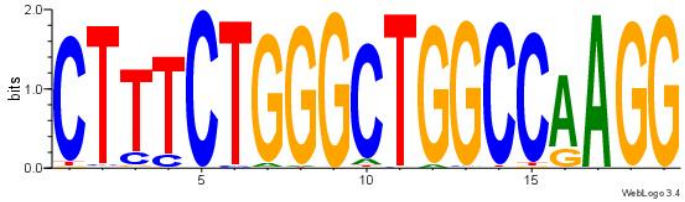

Dataset #:	1
Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	10
Similarity score:	0.0993125

Alignment:

```
ACCCAATWTGTAGTCTTTTA
-------CAATGGGGTG---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

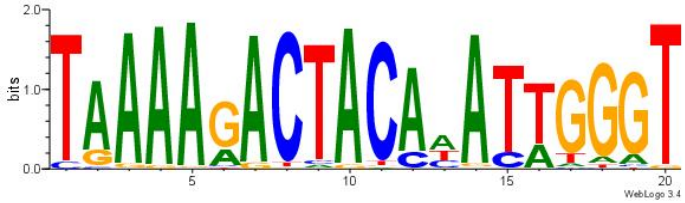

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

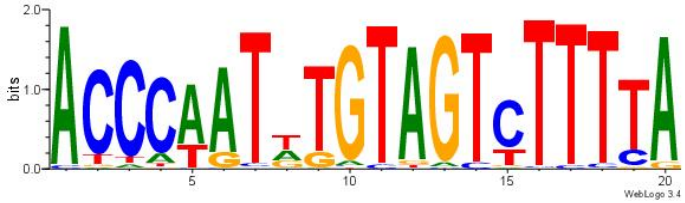

Dataset #:	1

Motif ID:	326
Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.0999666

Alignment:

```
CCTTTGACTCCATGTC
-----CACCCCATTG-
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

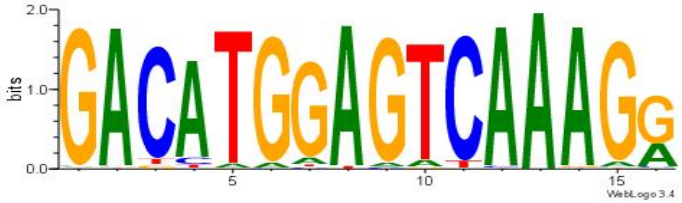

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

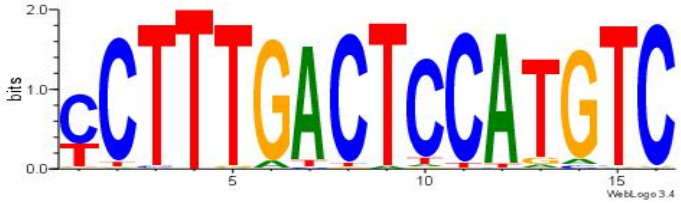

Dataset #:	1
Motif ID:	38
Motif name:	Motif 38
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	10

Similarity score: 0.100404

Alignment:
GCAGTGAGCYRAGA
-CAATGGGGTG---

Original motif Consensus sequence: GCAGTGAGCYRAGA

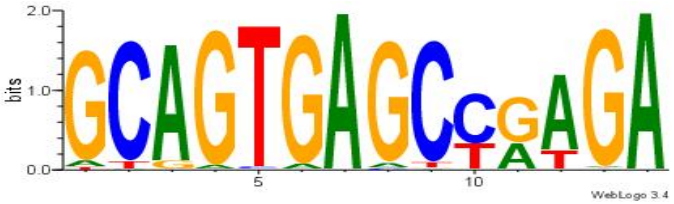

Reverse complement motif Consensus sequence: TCTMKGCTCACTG

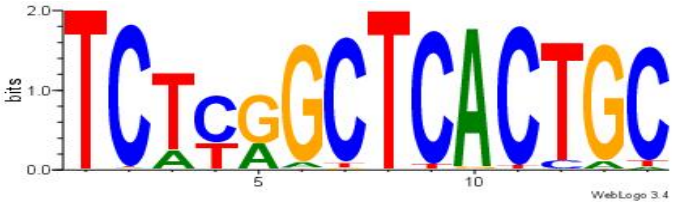

Dataset #: 1
Motif ID: 348
Motif name: Motif 348
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 10
Similarity score: 0.100468

Alignment:
CAAASCKGTCATAGGCCAT
---------CAATGGGGTG

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

Reverse complement motif Consensus sequence: CAAASCKGTCATAGGCCAT

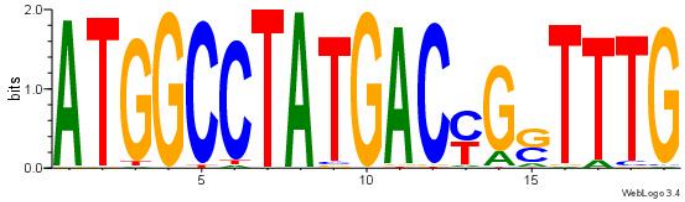

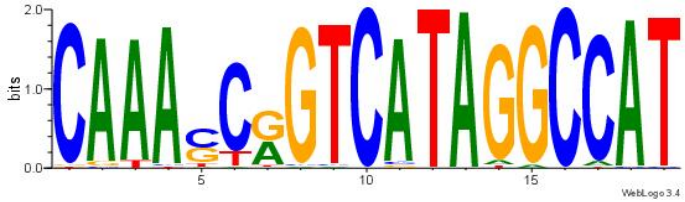

Dataset #:	1
Motif ID:	167
Motif name:	Motif 167
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.100471

Alignment:

```
GCACAGGAGCGG
-CAATGGGGTG-
```

Original motif Consensus sequence: CCGCTCCTGTGC

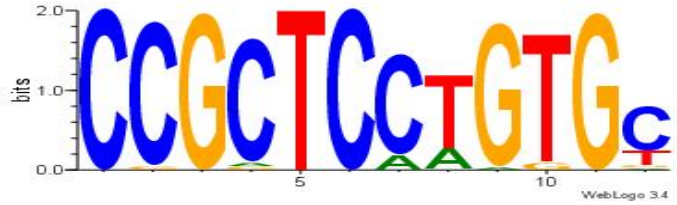

Reverse complement motif Consensus sequence: GCACAGGAGCGG

Dataset #:	1
Motif ID:	171

Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	10
Similarity score:	0.100641

Alignment:

```
ACTTTGGACTGTGGACTTTT
---------CAATGGGGTG-
```

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

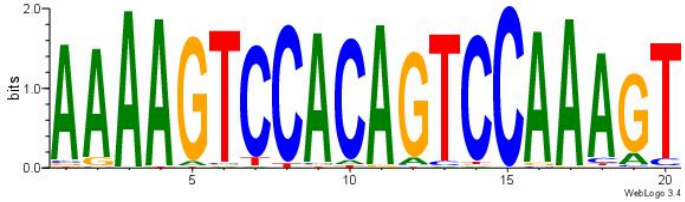

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

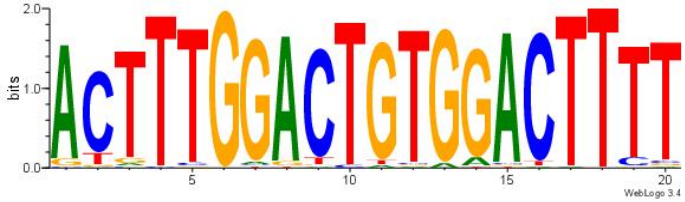

Dataset #:	1
Motif ID:	286
Motif name:	Motif 286
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	10
Similarity score:	0.100654

Alignment:
CTCCCAGCCGCCTG
----CACCCCATTG

Original motif Consensus sequence: CAGGCGGCTGGGAG

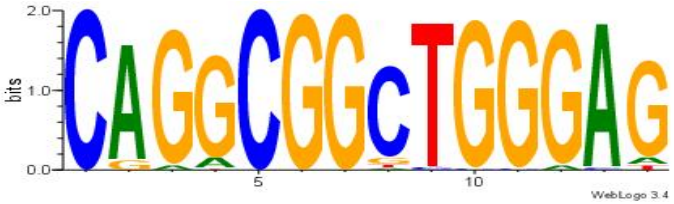

Reverse complement motif Consensus sequence: CTCCCAGCCGCCT

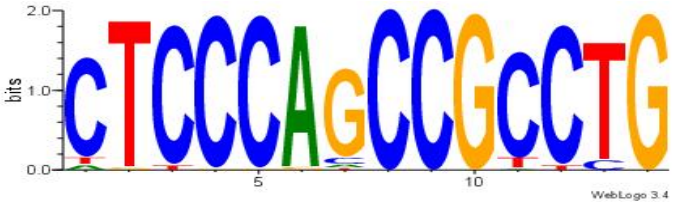

Dataset #:	1
Motif ID:	315
Motif name:	Motif 315
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.100669

Alignment:
CCAAACCATATCA
--CACCCCATTG-

Original motif Consensus sequence: CCAAACCATATCA

Reverse complement motif Consensus sequence: TGATATGGTTTGG

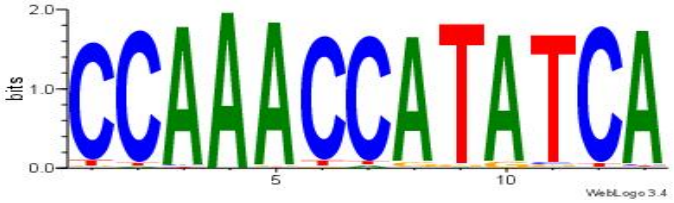

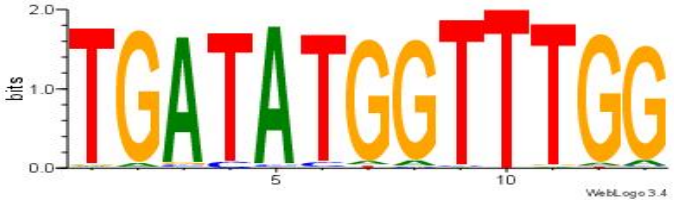

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.100903

Alignment:

```
MTCCTCCAGACCCCAGAATG
----------CACCCCATTG
```

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

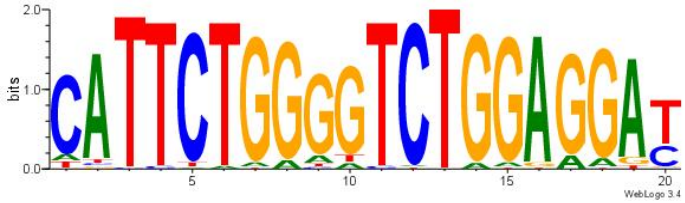

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

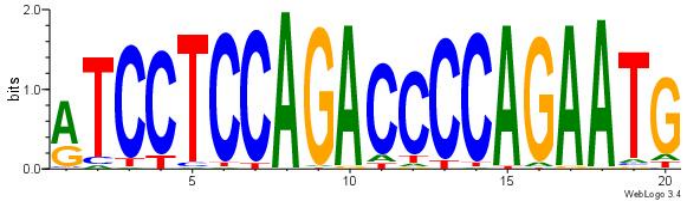

Dataset #: 1

Motif ID:	285
Motif name:	Motif 285
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	10
Similarity score:	0.101048

Alignment:

```
GCTGGAGTGCAGTG
CAATGGGGTG----
```

Original motif Consensus sequence: CACTGCACTCCAGC

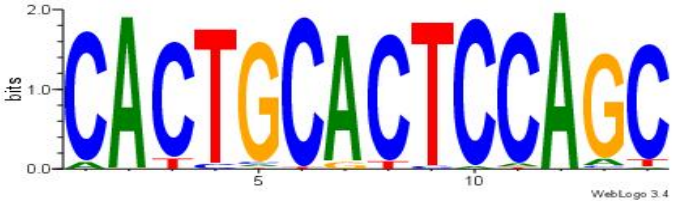

Reverse complement motif Consensus sequence: GCTGGAGTGCAGT

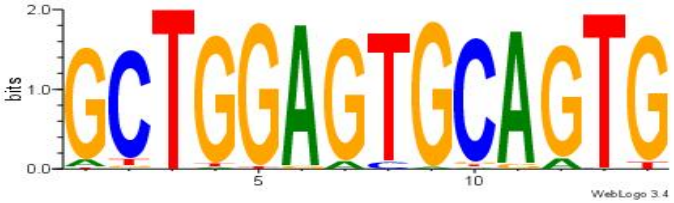

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	10
Similarity score:	0.101243

Alignment:
TGHCCTGCKCCCACTGTCT
------CACCCCATTG---

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

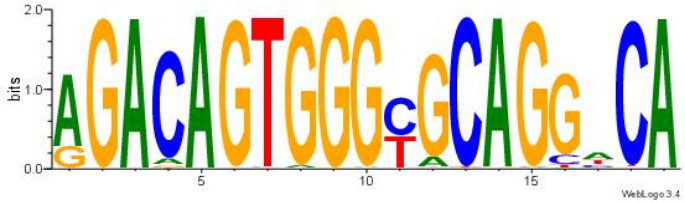

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

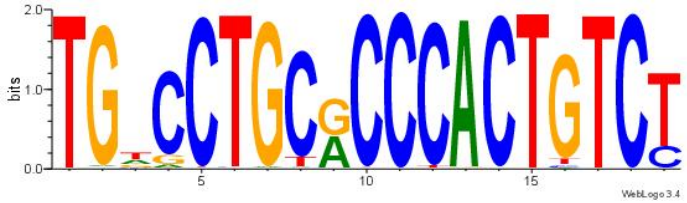

Dataset #:	1
Motif ID:	260
Motif name:	Motif 260
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	10
Similarity score:	0.101338

Alignment:
TTMGTCCCAGAGGGGCACC
--CAATGGGGTG-------

Original motif Consensus sequence: GGTGCCCCTCTGGGACRAA

Reverse complement motif Consensus sequence:
TTMGTCCCAGAGGGGCACC

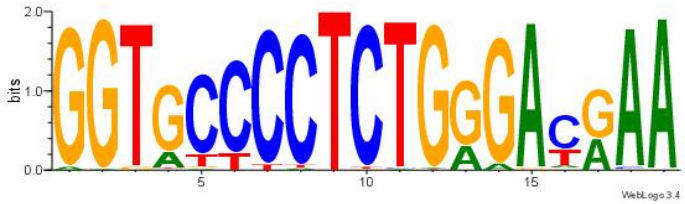

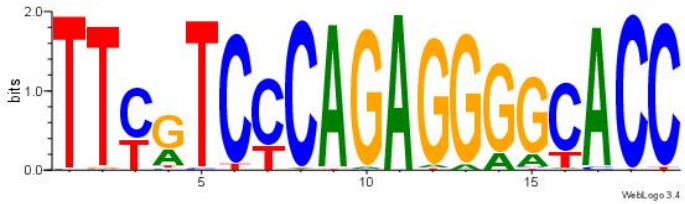

Dataset #:	1
Motif ID:	40
Motif name:	Motif 40
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	10
Similarity score:	0.10182

Alignment:

```
ACTTTGGGAGGC
-CAATGGGGTG-
```

Original motif Consensus sequence: ACTTTGGGAGGC

Reverse complement motif Consensus sequence: GCCTCCCAAAGT

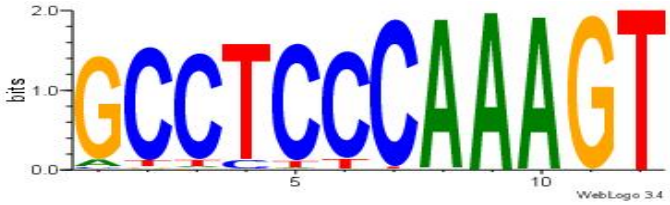

Dataset #:	1
Motif ID:	67

Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	10
Similarity score:	0.101911

Alignment:

```
CTGGGCTCCTGAGTCTGGTG
----------CAATGGGGTG
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

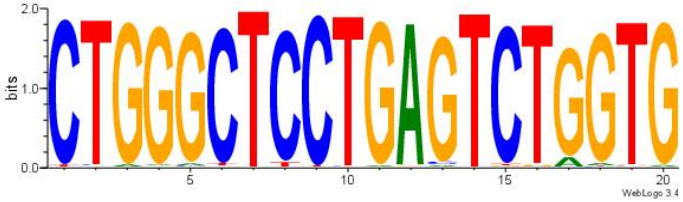

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

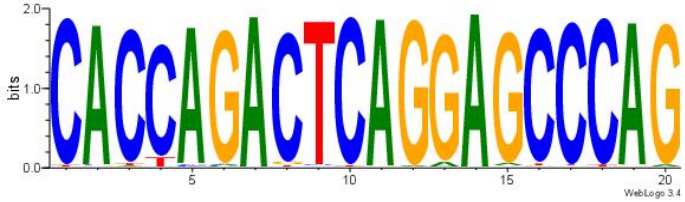

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	10
Similarity score:	0.102039

Alignment:
GAGAACACATGGACA
---CACCCCATTG--

Original motif Consensus sequence: GAGAACACATGGACA

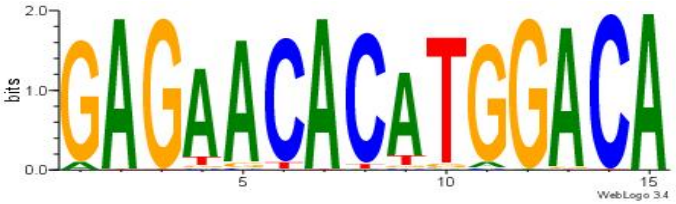

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

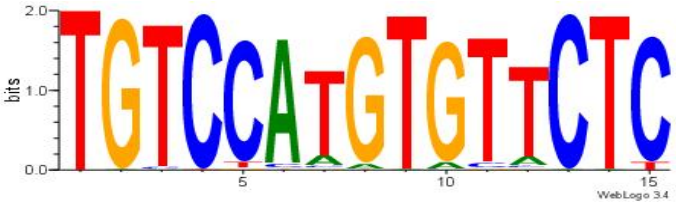

Dataset #:	1
Motif ID:	94
Motif name:	Motif 94
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.10212

Alignment:
GMTTAGCTCCCACTTA
------CACCCCATTG

Original motif Consensus sequence: TAAGTGGGAGCTAARC

Reverse complement motif Consensus sequence: GMTTAGCTCCCACTTA

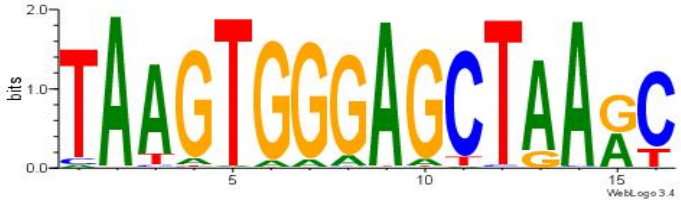

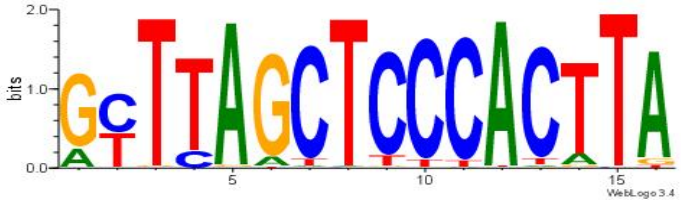

Dataset #:	1
Motif ID:	115
Motif name:	Motif 115
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	10
Similarity score:	0.102221

Alignment:

```
HAGTGGKATTGCTGGATCAT
----------CAATGGGGTG
```

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

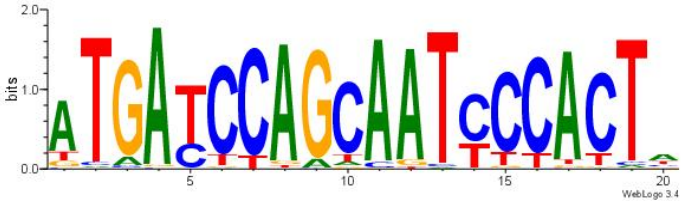

Reverse complement motif Consensus sequence: HAGTGGKATTGCTGGATCAT

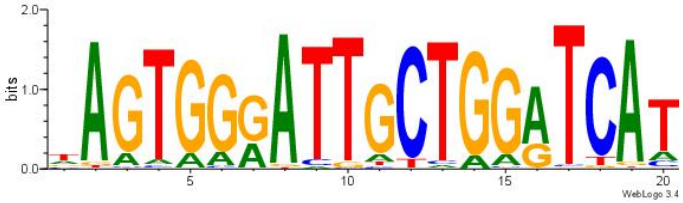

Dataset #:	1

Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	10
Similarity score:	0.102388

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-CAATGGGGTG---------
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

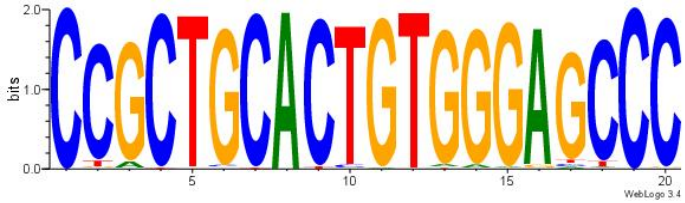

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

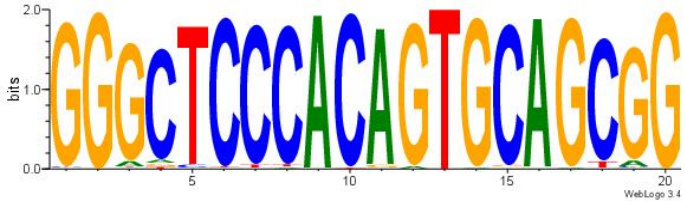

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	10

Similarity score: 0.102565

Alignment:
CTGGGTCCCCCAGCAGTGCC
--CACCCCATTG--------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

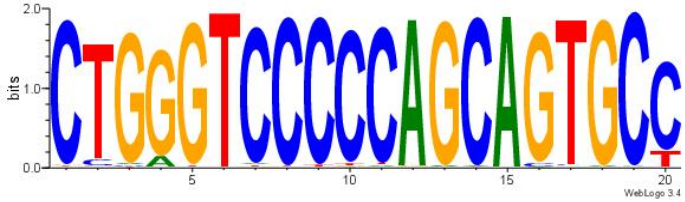

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

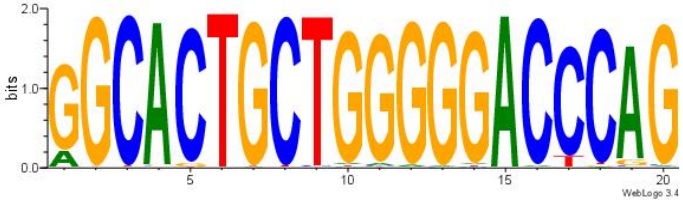

Dataset #: 1 Motif ID: 361 Motif name: Motif 361

Original motif Consensus sequence: AGGTCAGGAGTTC

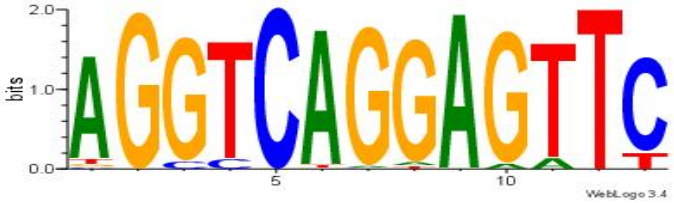

Reverse complement motif Consensus sequence: GAACTCCTGACCT

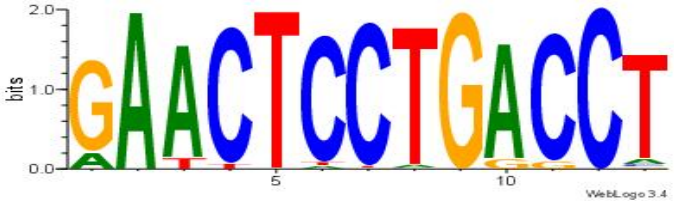

Best Matches for Motif ID 361 (Highest to Lowest)

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0663108

Alignment:

```
TAMGACCTCAGGTCCTCAG
---GAACTCCTGACCT---
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

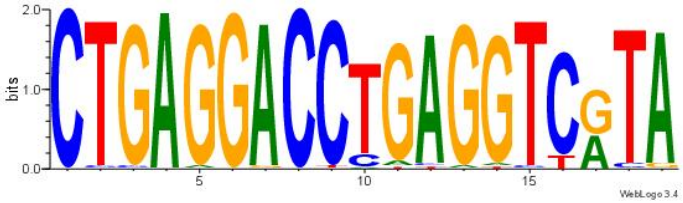

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

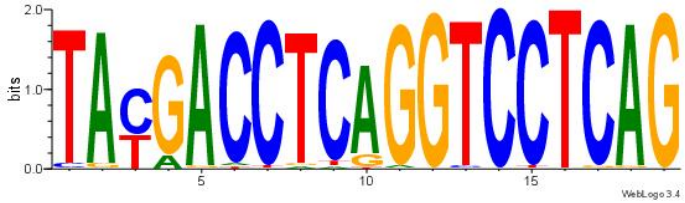

Dataset #:	1
Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0705628

Alignment:

```
AAGGAACAAACTCCRGACAC
GAACTCCTGACCT-------
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

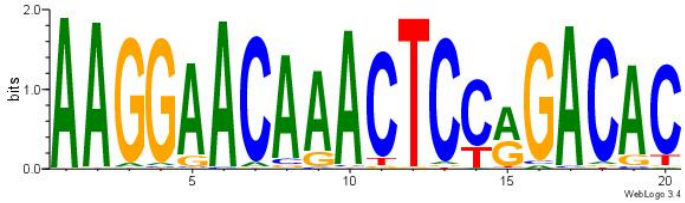

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

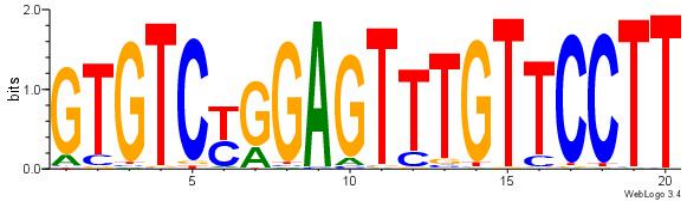

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0735746

Alignment:

```
GCAAAKGACATGATYTCATT
----AGGTCAGGAGTTC---
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

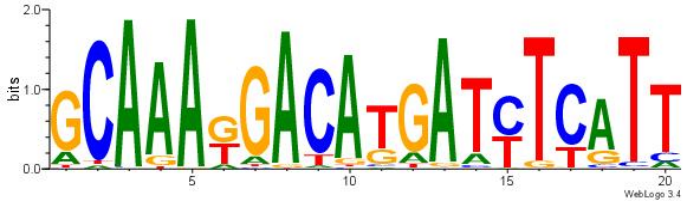

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

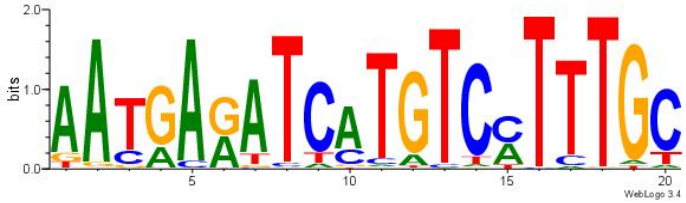

Dataset #:	1
Motif ID:	72
Motif name:	Motif 72
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0755173

Alignment:

```
CGCACTCCTCAGCC
GAACTCCTGACCT-
```

Original motif Consensus sequence: CGCACTCCTCAGCC

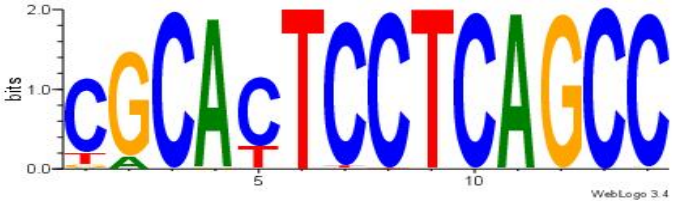

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

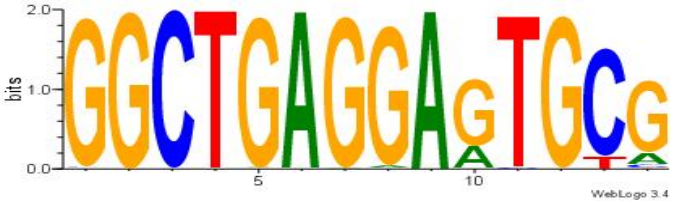

Dataset #:	1
Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.0777779

Alignment:
GAAAGGGAACTCCCTGACCC
GAACTCCTGACCT-------

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

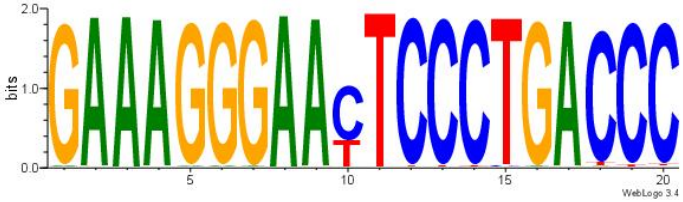

Reverse complement motif Consensus sequence:
GGGTCAGGGAGTTCCCTTTC

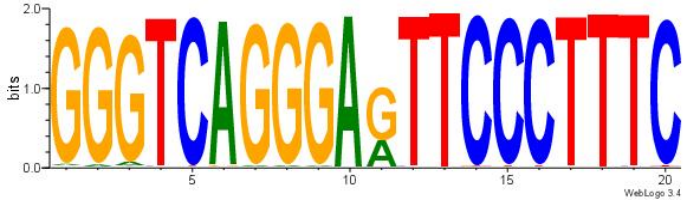

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0802043

Alignment:
CATTCTGGGGTCTGGAGGAY
-------AGGTCAGGAGTTC

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

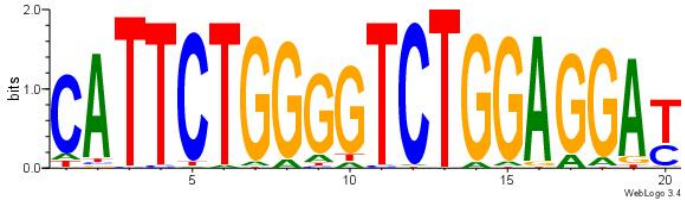

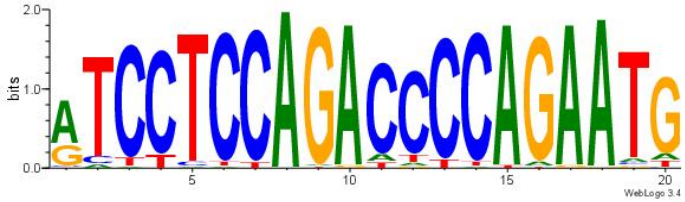

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0855836

Alignment:

```
GGAGGTGTGGAGGGAGAGGC
-----AGGTCAGGAGTTC--
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

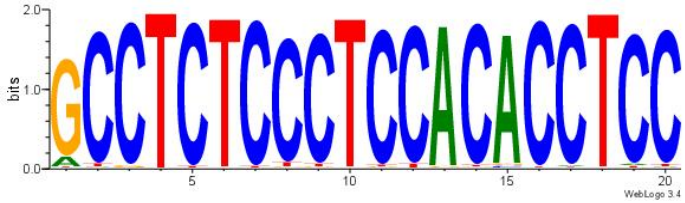

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

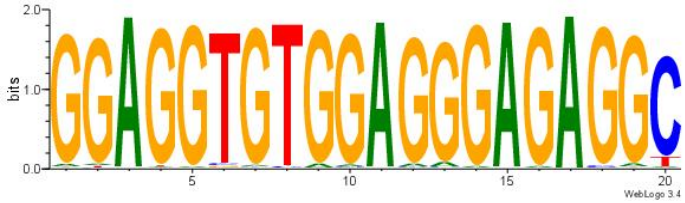

Dataset #:	1

Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0857283

Alignment:

```
GACCTGCAGCCCGCCATG
GAACTCCTGACCT-----
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

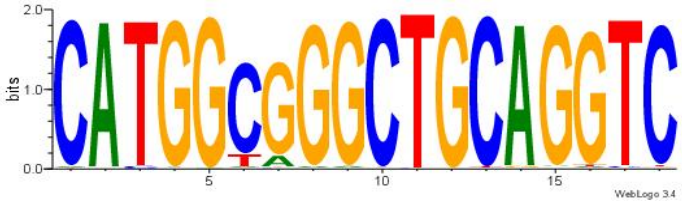

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

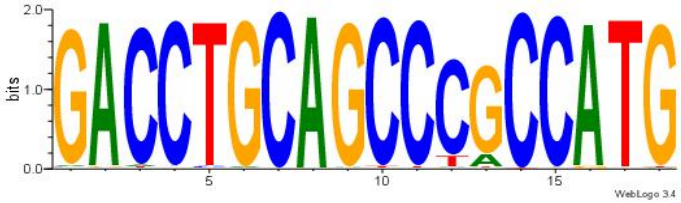

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.0865008

Alignment:
GAATACCTCCTGAAGGACCT
---GAACTCCTGACCT----

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

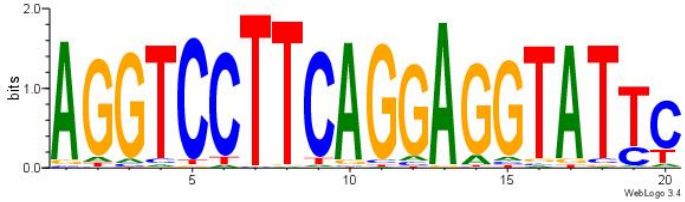

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

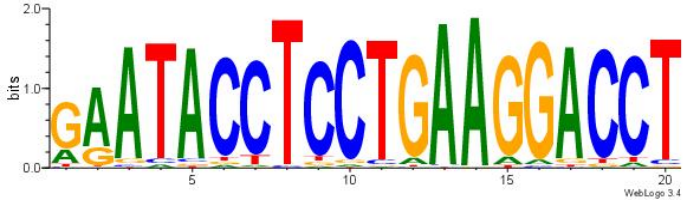

Dataset #: 1
Motif ID: 67
Motif name: Motif 67
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 13
Similarity score: 0.087396

Alignment:
CTGGGCTCCTGAGTCTGGTG
-----GAACTCCTGACCT--

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

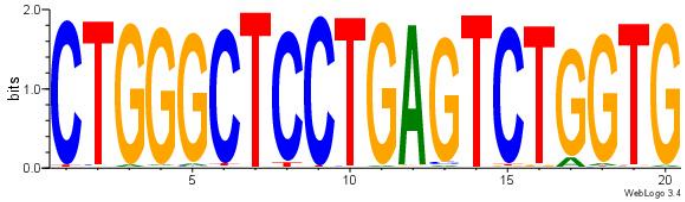

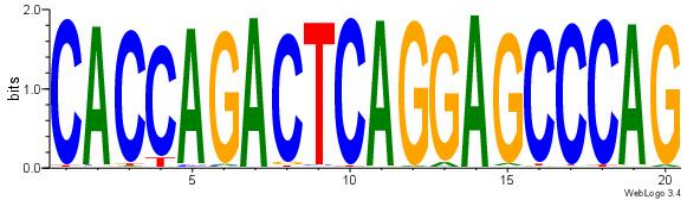

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0884457

Alignment:

```
AGCCTCCAGAACTGT
--GAACTCCTGACCT
```

Original motif Consensus sequence: AGCCTCCAGAACTGT

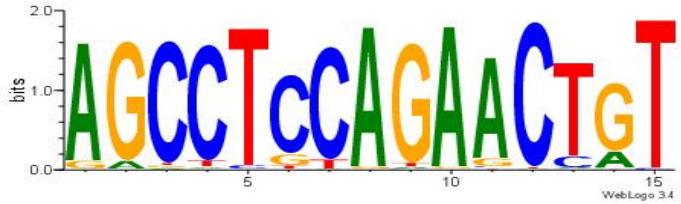

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #:	1
Motif ID:	225

Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0899796

Alignment:

```
AAGTTCTKGGKTACATGTGC
------AGGTCAGGAGTTC-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

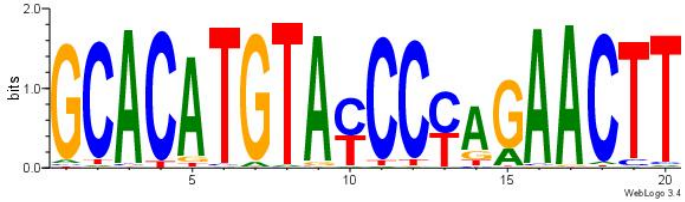

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

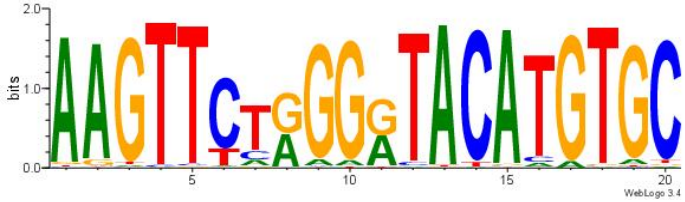

Dataset #:	1
Motif ID:	257
Motif name:	Motif 257
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0905561

Alignment:
GAGAACACATGGACA
GAACTCCTGACCT--

Original motif Consensus sequence: GAGAACACATGGACA

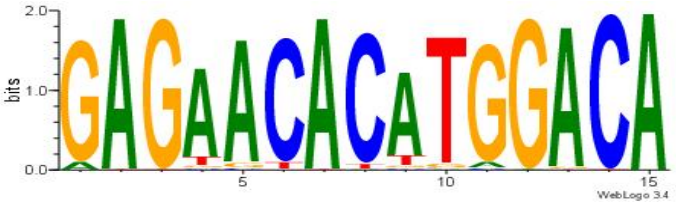

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

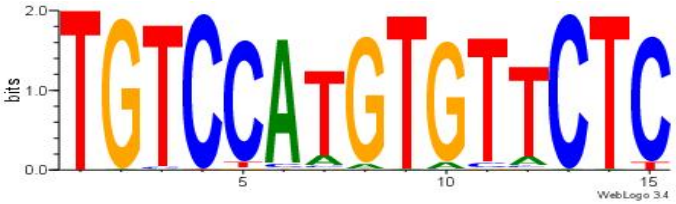

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.0927971

Alignment:
ACTTTGGACTGTGGACTTTT
-----GAACTCCTGACCT--

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence: ACTTTGGACTGTGGACTTTT

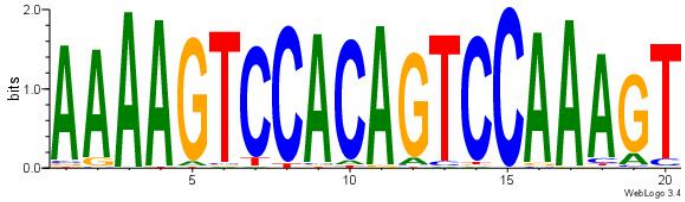

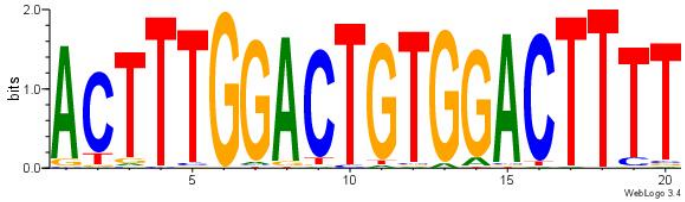

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0934882

Alignment:

```
GGATTTMKGACTTGCATGGG
GAACTCCTGACCT-------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

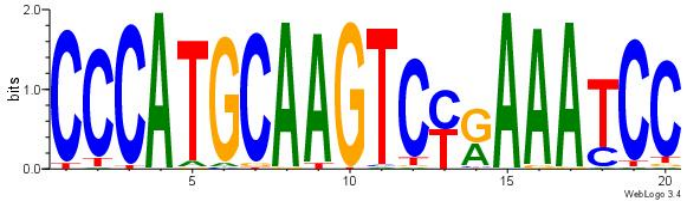

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

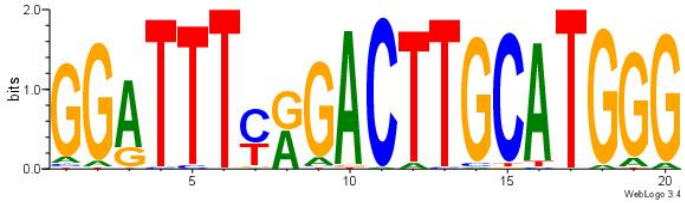

Dataset #: 1

Motif ID:	349
Motif name:	Motif 349
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0943752

Alignment:

```
TTCAMTCATGATTTGGCTCT
-GAACTCCTGACCT------
```

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

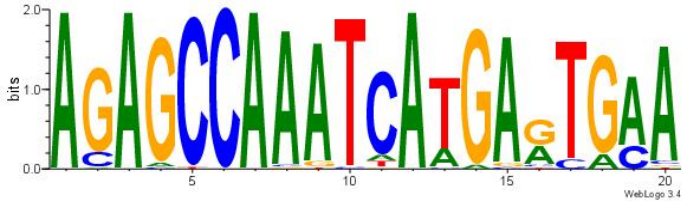

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

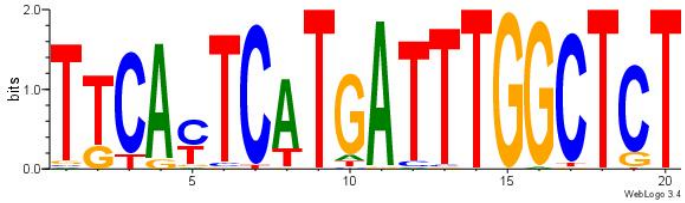

Dataset #:	1
Motif ID:	333
Motif name:	Motif 333
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13

Similarity score: 0.0954034

Alignment:
AAAGCTGGAGCTATTATCTA
-------AGGTCAGGAGTTC

Original motif Consensus sequence: TAGATAATAGCTCCAGCTTT

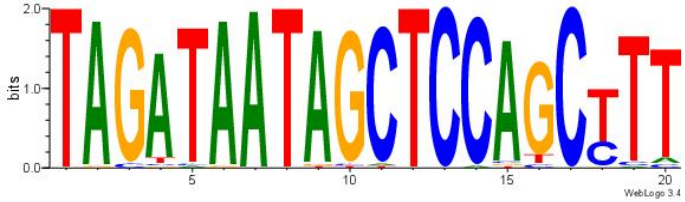

Reverse complement motif Consensus sequence: AAAGCTGGAGCTATTATCTA

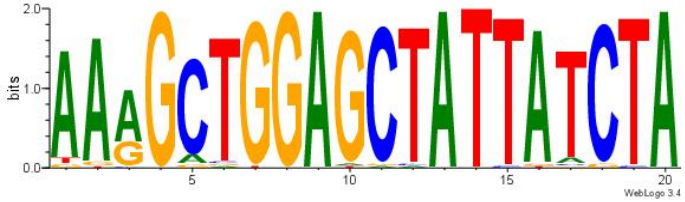

Dataset #: 1
Motif ID: 365
Motif name: Motif 365
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0956867

Alignment:
GTAGACCGGAGCT
GAACTCCTGACCT

Original motif Consensus sequence: AGCTCCGGTCTAC

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

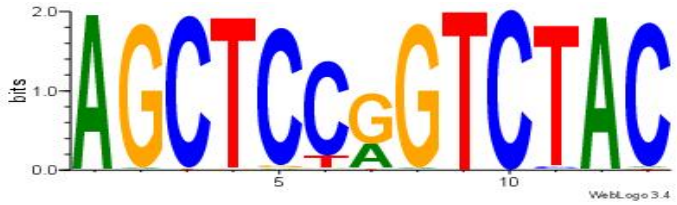

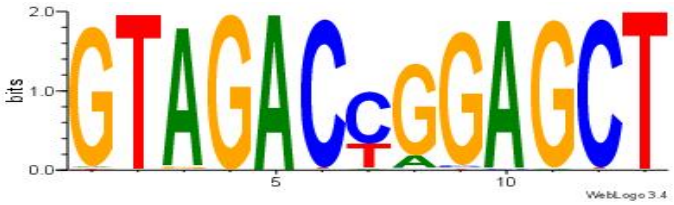

Dataset #:	1
Motif ID:	44
Motif name:	Motif 44
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0977357

Alignment:

```
AATCGCTTGAACC
GAACTCCTGACCT
```

Original motif Consensus sequence: AATCGCTTGAACC

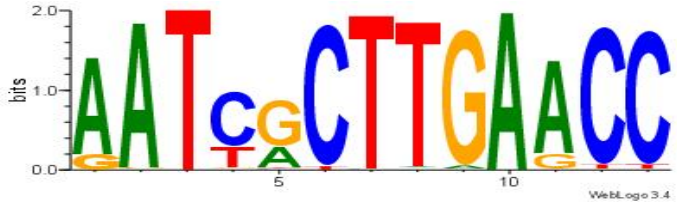

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

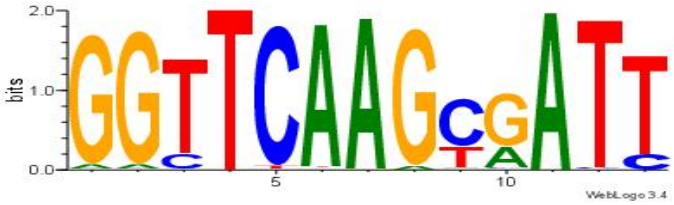

Dataset #:	1
Motif ID:	165

Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.0978728

Alignment:

```
ATCTGACAGGAGGYRGAGCT
--AGGTCAGGAGTTC-----
```

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

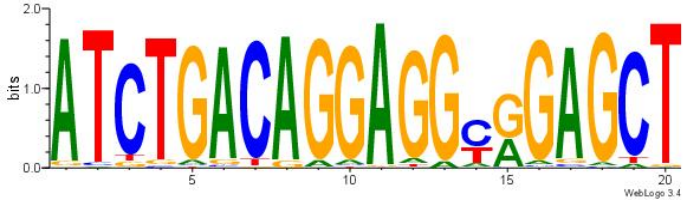

Reverse complement motif Consensus sequence: AGCTCMKCCTCCTGTCAGAT

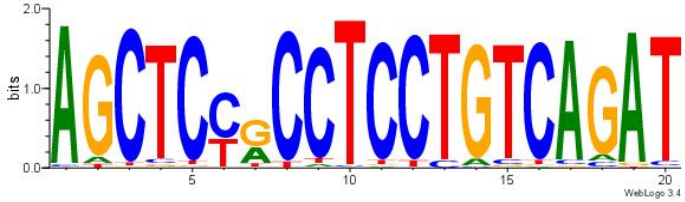

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0995793

Alignment:
GACTTCAAGAATGAAGCCG
-AGGTCAGGAGTTC-----

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

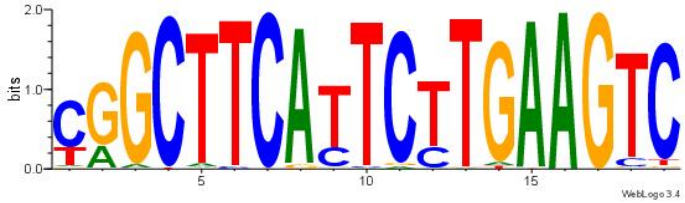

Dataset #:	1
Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0997661

Alignment:
CCGCGGGGCAGGGCTCG
AGGTCAGGAGTTC----

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

Reverse complement motif Consensus sequence:
CCGCGGGGCAGGGCTCG

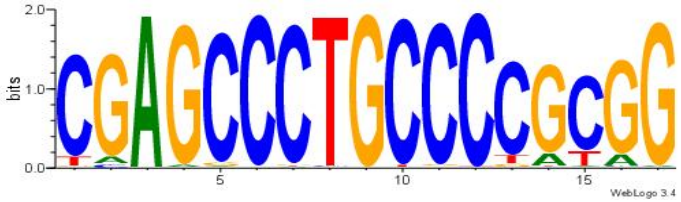

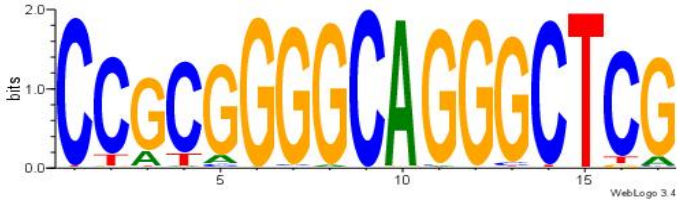

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.099971

Alignment:

```
AGGAACAGCTCCRGTCTAC
----GAACTCCTGACCT--
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

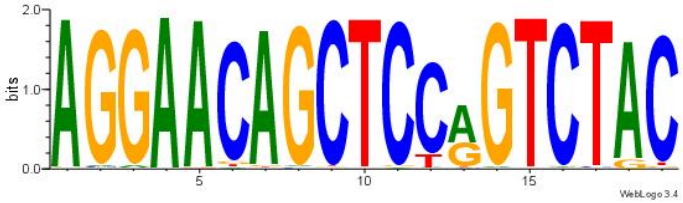

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

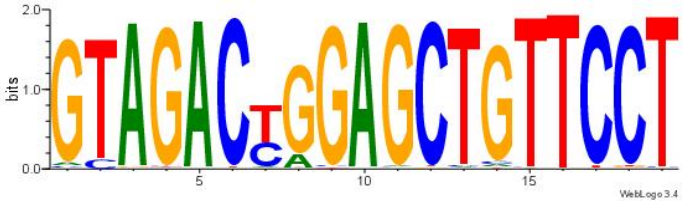

Dataset #: 1

Motif ID:	30
Motif name:	Motif 30
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.100893

Alignment:

```
AGGAGCGCCTCTKCCCGGC
----GAACTCCTGACCT--
```

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

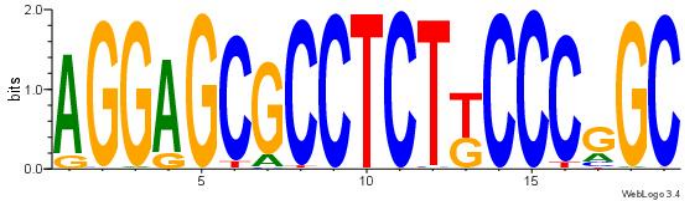

Reverse complement motif Consensus sequence: GCCGGGRAGAGGCGCTCCT

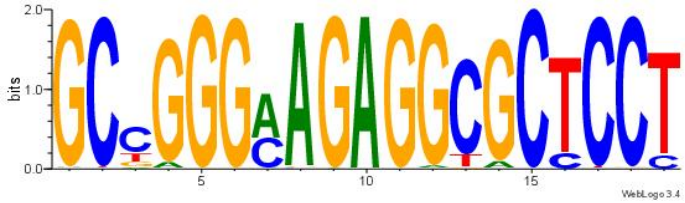

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.10117

Alignment:
CCTAGATTTCAGARGATGT
-----AGGTCAGGAGTTC-

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

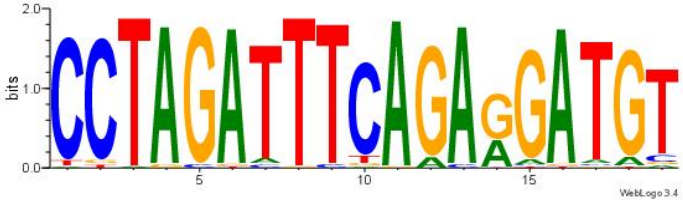

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

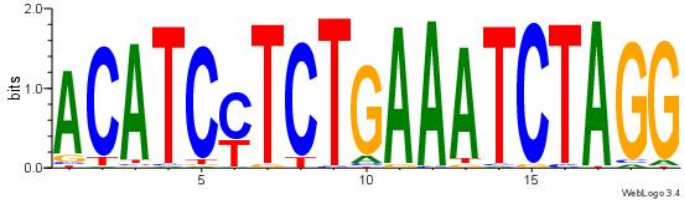

Dataset #: 1
Motif ID: 149
Motif name: Motif 149
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.101194

Alignment:
ACTCAGCCCRCCTGCACCC
-GAACTCCTGACCT-----

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

Reverse complement motif Consensus sequence:
GGGTGCAGGMGGGCTGAGT

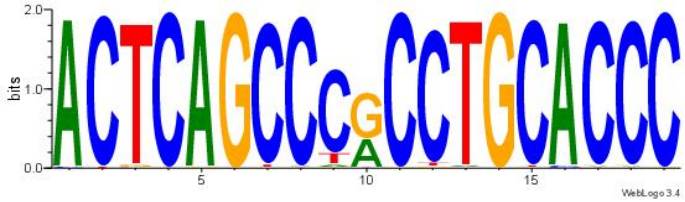

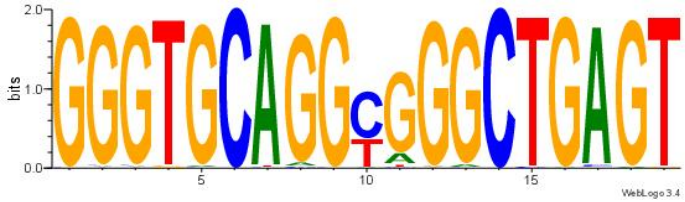

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.101538

Alignment:

```
GCTCTCAGGTCCA
GAACTCCTGACCT
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

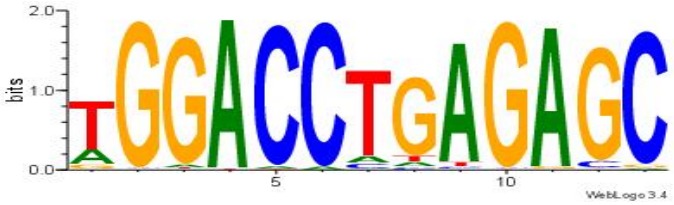

Dataset #:	1
Motif ID:	224

Motif name:	Motif 224
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.101692

Alignment:

```
AATGAGTTAAGACTTTG
---AGGTCAGGAGTTC-
```

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

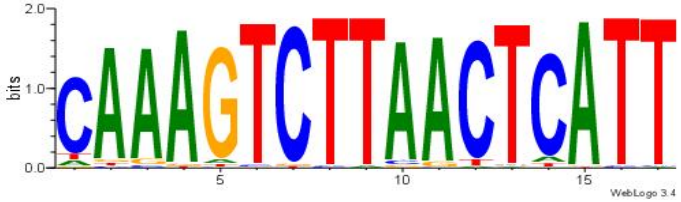

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.1017

Alignment:
TCKMGCCACTGCACTCCAGC
--GAACTCCTGACCT-----

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

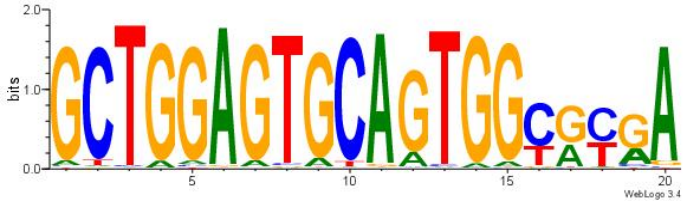

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

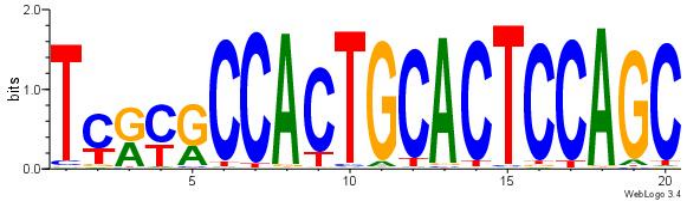

Dataset #:	1
Motif ID:	18
Motif name:	Motif 18
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.102561

Alignment:
CCCYAATACTGCGCTTTTC
--GAACTCCTGACCT----

Original motif Consensus sequence: GAAAAGCGCAGTATTMGGG

Reverse complement motif Consensus sequence:
CCCYAATACTGCGCTTTTC

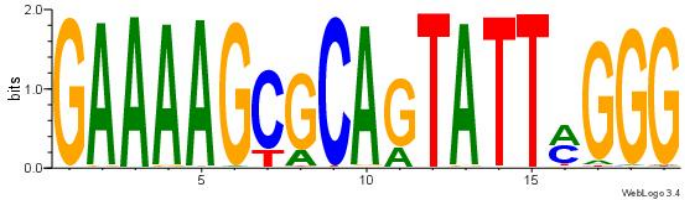

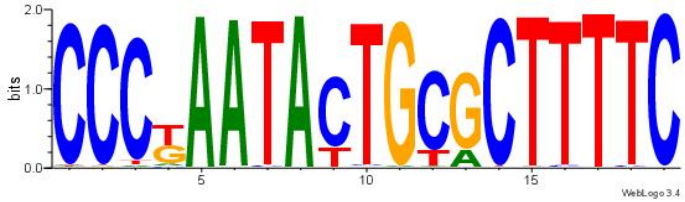

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.103478

Alignment:

```
GACTGGCAGGCAGCTCCACC
---AGGTCAGGAGTTC----
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

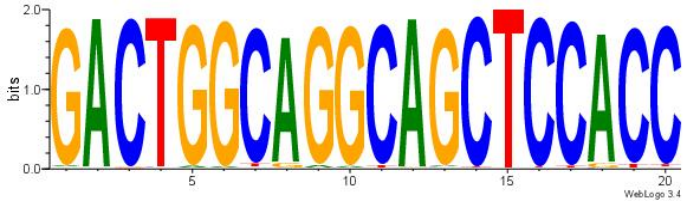

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

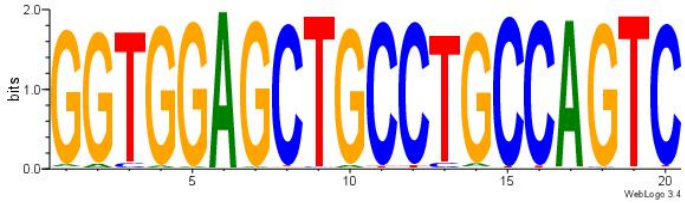

Dataset #:	1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.103732

Alignment:

```
ATTGATMKCCAGGGTTGATT
---GAACTCCTGACCT----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

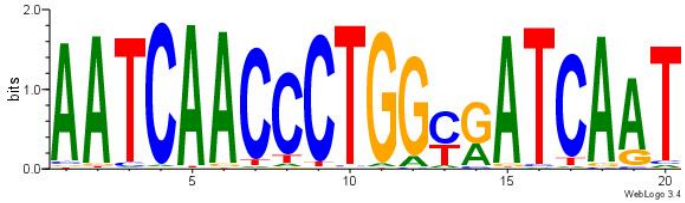

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

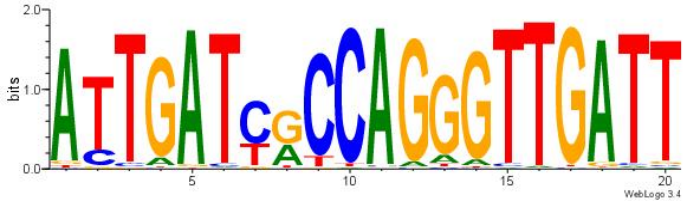

Dataset #:	1
Motif ID:	175
Motif name:	Motif 175
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13

Similarity score: 0.103929

Alignment:
GCACTCTGTMTCTAGCT
GAACTCCTGACCT----

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

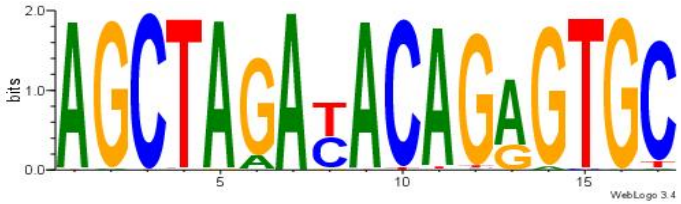

Reverse complement motif Consensus sequence: GCACTCTGTMTCTAGCT

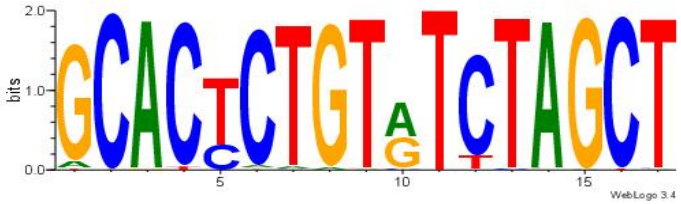

Dataset #: 1
Motif ID: 65
Motif name: Motif 65
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 13
Similarity score: 0.103977

Alignment:
AGAAATCGAGCRCAGCGCCG
------GAACTCCTGACCT-

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

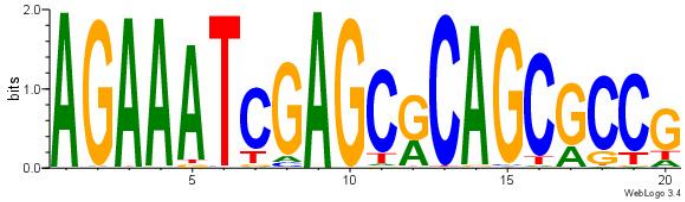

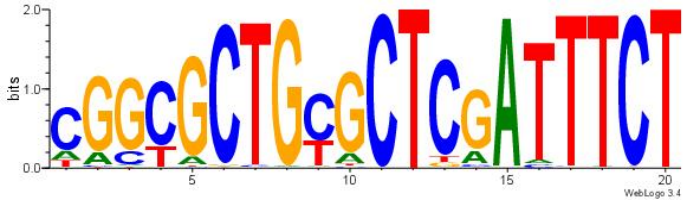

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.104604

Alignment:

```
AAGCAGGGCGAGGCATTGCC
-----AGGTCAGGAGTTC--
```

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

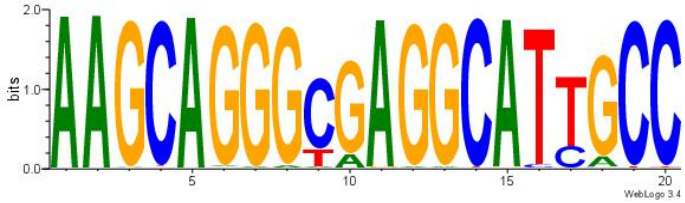

Reverse complement motif Consensus sequence: GGCAATGCCTCGCCCTGCTT

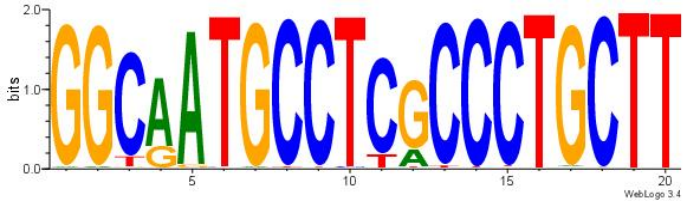

Dataset #:	1

Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.105062

Alignment:

```
CCACCACAGCTCAAGGAGGC
-------AGGTCAGGAGTTC
```

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

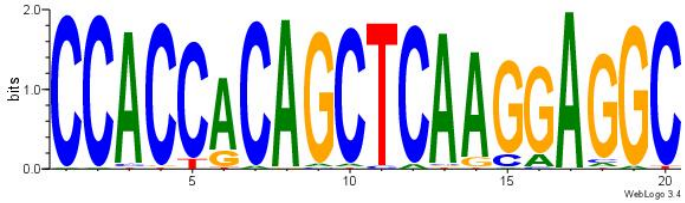

Reverse complement motif Consensus sequence: GCCTCCTTGAGCTGTGGTGG

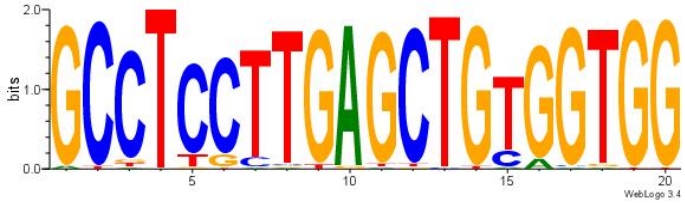

Dataset #:	1
Motif ID:	84
Motif name:	Motif 84
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.105157

Alignment:
CTGGGTCCCCCAGCAGTGCC
------AGGTCAGGAGTTC-

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

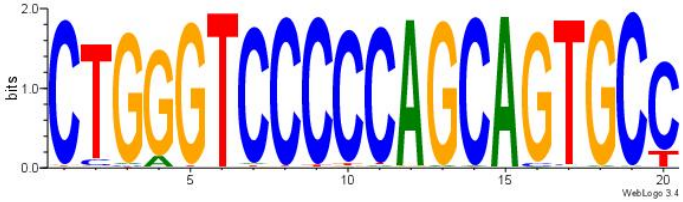

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

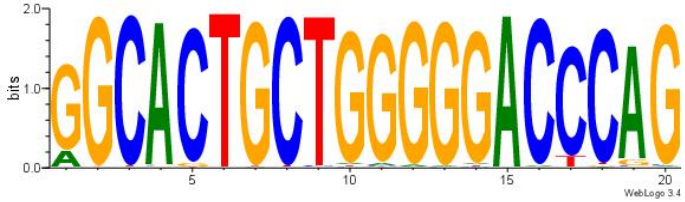

Dataset #: 1
Motif ID: 8
Motif name: Motif 8
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.105188

Alignment:
ATCRCTTGAGSYCAGGAGKT
GAACTCCTGACCT-------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

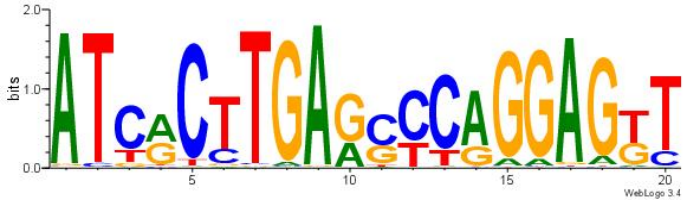

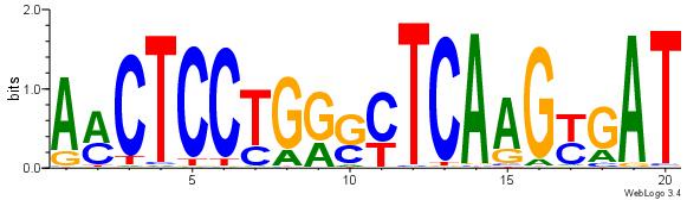

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.105314

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-------AGGTCAGGAGTTC
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

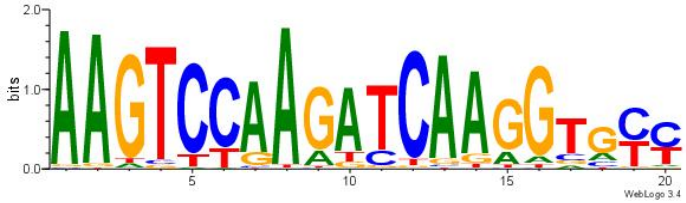

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

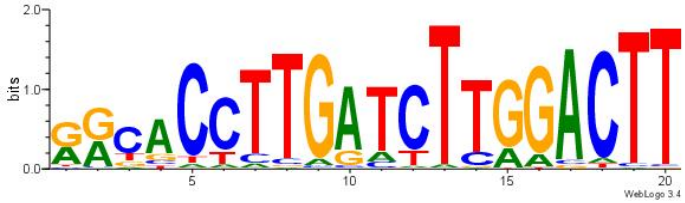

Dataset #:	1

Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.106484

Alignment:

```
AAAMAMMKMATGTTCTCACT
---GAACTCCTGACCT----
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

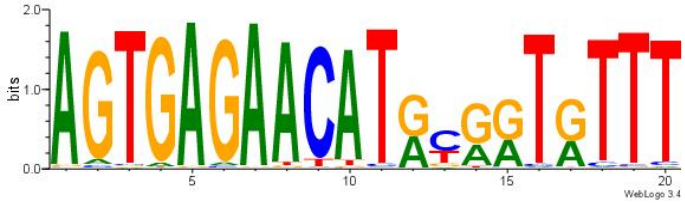

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

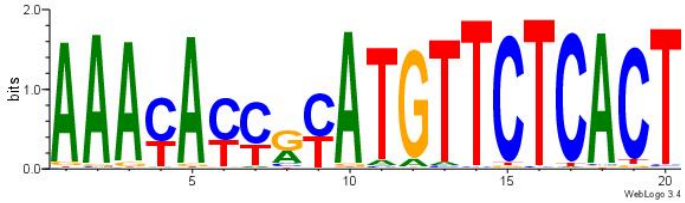

Dataset #:	1
Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.10687

Alignment:
AAGCTGAGGGAGCCGGCTCC
-AGGTCAGGAGTTC------

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

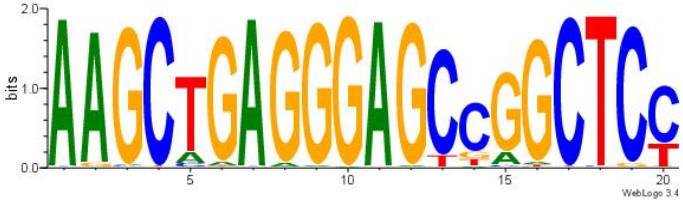

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

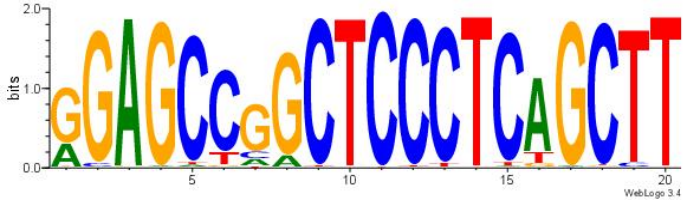

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.10691

Alignment:
CTCAGGAATGGAAAACC
---AGGTCAGGAGTTC-

Original motif Consensus sequence: CTCAGGAATGGAAAACC

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

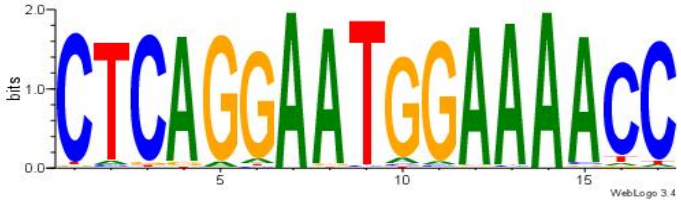

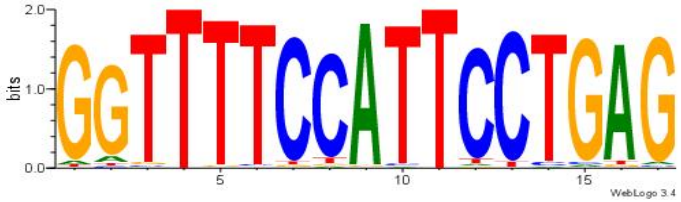

Dataset #:	1
Motif ID:	363
Motif name:	Motif 363
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107335

Alignment:

```
CAAGGTCTGATTGTW
--AGGTCAGGAGTTC
```

Original motif Consensus sequence: CAAGGTCTGATTGTW

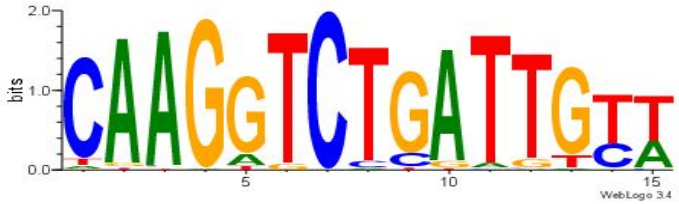

Reverse complement motif Consensus sequence: WACAATCAGACCT

Dataset #:	1
Motif ID:	312

Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107364

Alignment:

```
CCCMKGGCACCCTCAGTCCT
-------GAACTCCTGACCT
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

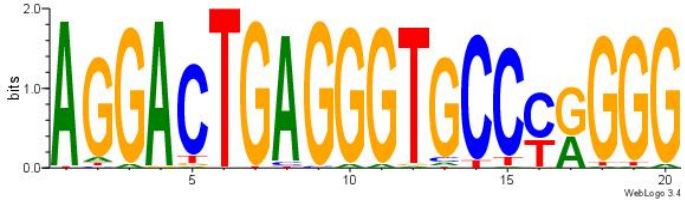

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

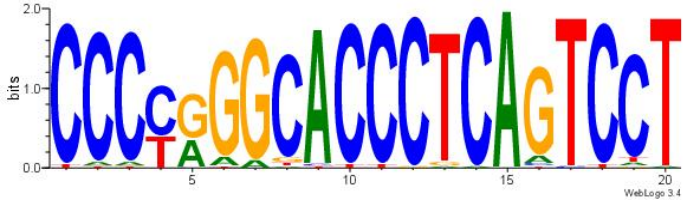

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.107722

Alignment:
HGCTCCTGTGSKCCC
AGGTCAGGAGTTC--

Original motif Consensus sequence: HGCTCCTGTGSKCCC

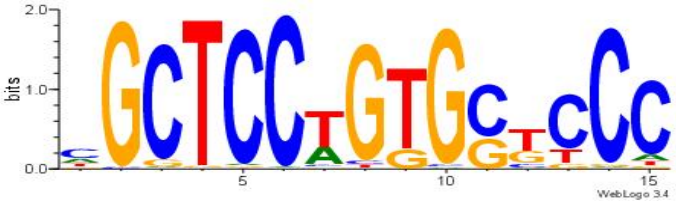

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.107763

Alignment:
TCTGGAGTGGACCTCCAGCA
--AGGTCAGGAGTTC-----

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

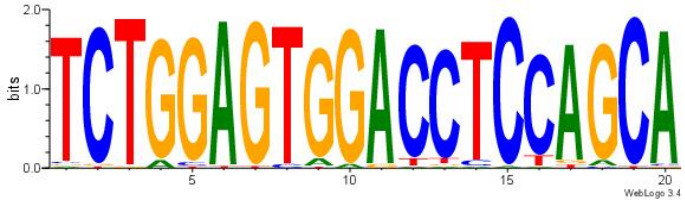

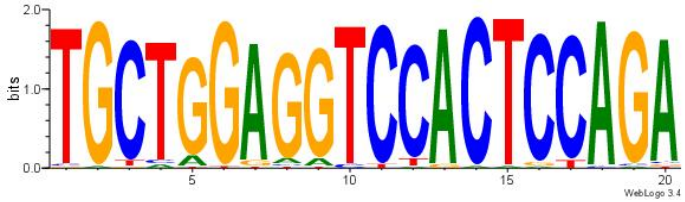

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.108061

Alignment:

```
GCAGCTTCACTCCTGA
--GAACTCCTGACCT-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

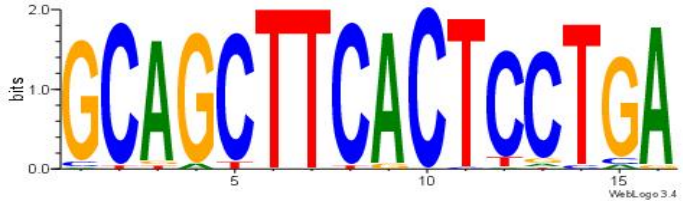

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

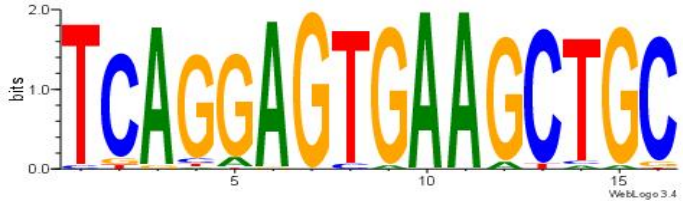

Dataset #: 1

Motif ID:	235
Motif name:	Motif 235
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.108161

Alignment:

```
GCCAATTTCTCCCATTTGGA
--GAACTCCTGACCT-----
```

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

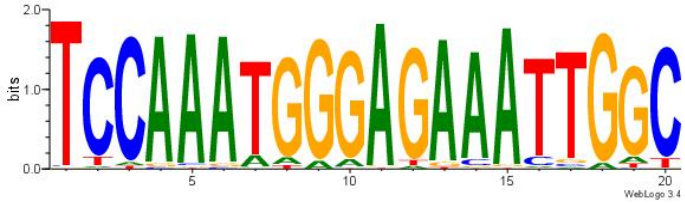

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

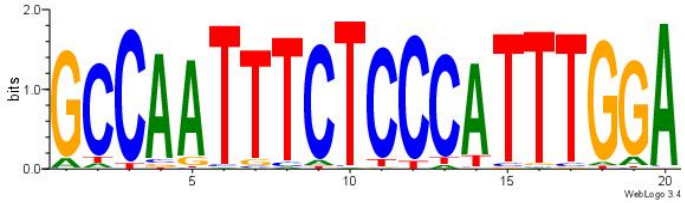

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13

Similarity score: 0.108426

Alignment:
KGGGCDGAGGGGCTCCT
--AGGTCAGGAGTTC--

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

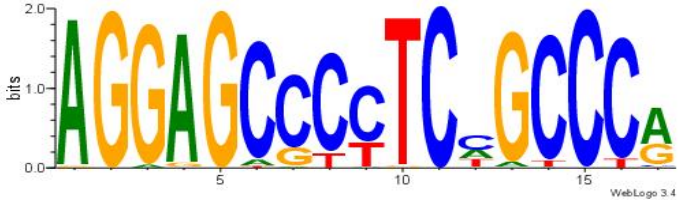

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

Dataset #: 1
Motif ID: 35
Motif name: Motif 35
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.108441

Alignment:
CAGAAATCACCCGTCTT
GAACTCCTGACCT----

Original motif Consensus sequence: CAGAAATCACCCGTCTT

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

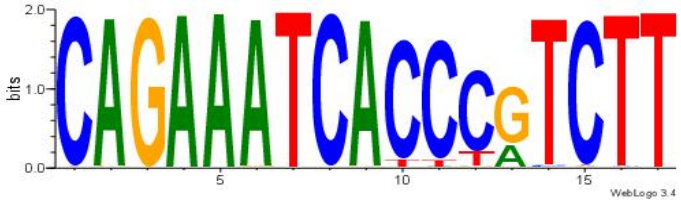

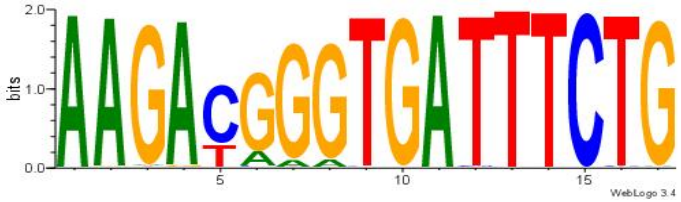

Dataset #: 1 Motif ID: 362 Motif name: Motif 362

Original motif Consensus sequence: GCTCTGAAGGTCC

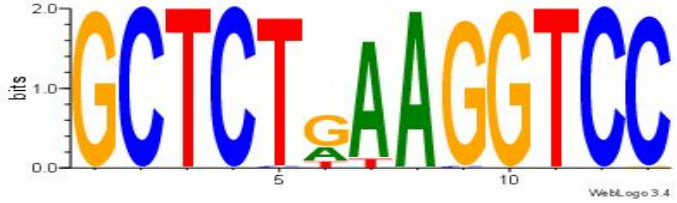

Reverse complement motif Consensus sequence: GGACCTTCAGAGC

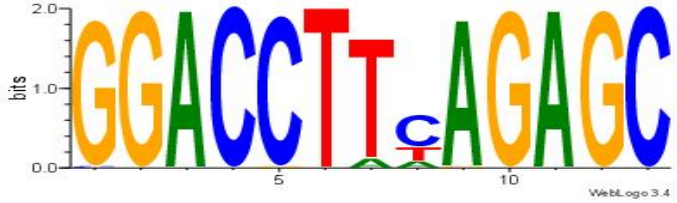

Best Matches for Motif ID 362 (Highest to Lowest)

Dataset #:	1
Motif ID:	10
Motif name:	Motif 10
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0695238

Alignment:

```
MCCYGGCWSMGASGSTCCT
-GCTCTGAAGGTCC-----
```

Original motif Consensus sequence: AGGASCSTCYSWGCCMGGY

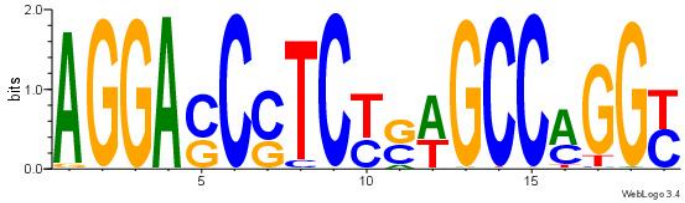

Reverse complement motif Consensus sequence: MCCYGGCWSMGASGSTCCT

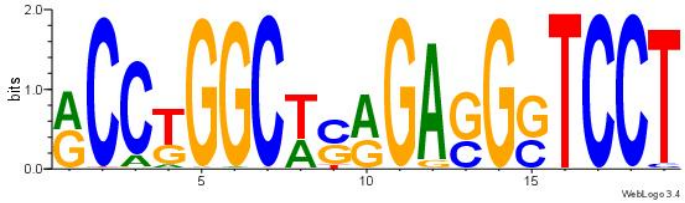

Dataset #:	1
Motif ID:	179
Motif name:	Motif 179
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0873004

Alignment:

```
GAATACCTCCTGAAGGACCT
-GCTCTGAAGGTCC------
```

Original motif Consensus sequence: AGGTCCTTCAGGAGGTATTC

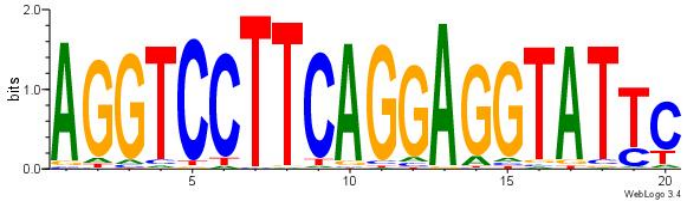

Reverse complement motif Consensus sequence: GAATACCTCCTGAAGGACCT

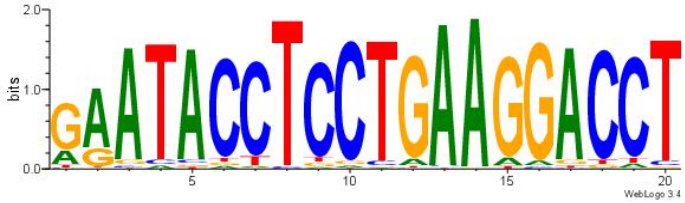

Dataset #:	1
Motif ID:	312
Motif name:	Motif 312
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.088213

Alignment:

```
CCCMKGGCACCCTCAGTCCT
------GGACCTTCAGAGC-
```

Original motif Consensus sequence: AGGACTGAGGGTGCCYRGGG

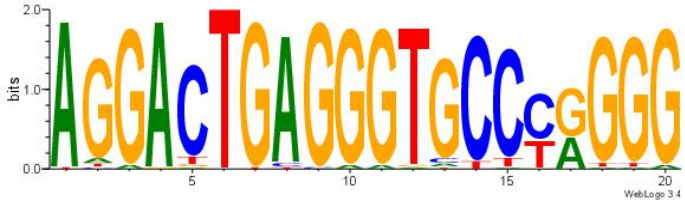

Reverse complement motif Consensus sequence: CCCMKGGCACCCTCAGTCCT

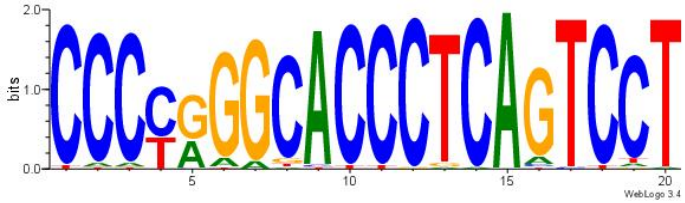

Dataset #:	1
Motif ID:	60
Motif name:	Motif 60
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 13
Similarity score: 0.0888302

Alignment:
GATCACGAGGTCAGGAG
GCTCTGAAGGTCC----

Original motif Consensus sequence: GATCACGAGGTCAGGAG

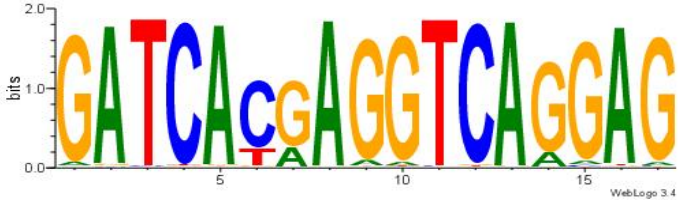

Reverse complement motif Consensus sequence: CTCCTGACCTCGTGATC

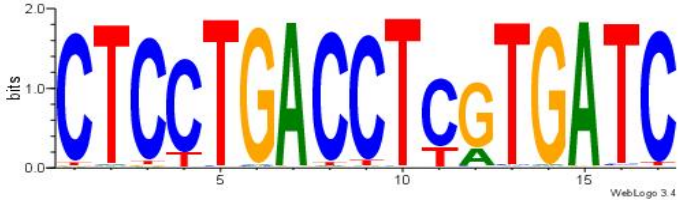

Dataset #: 1
Motif ID: 215
Motif name: Motif 215
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0929872

Alignment:
GGGRSCACAGGAGCD
-GGACCTTCAGAGC-

Original motif Consensus sequence: HGCTCCTGTGSKCCC

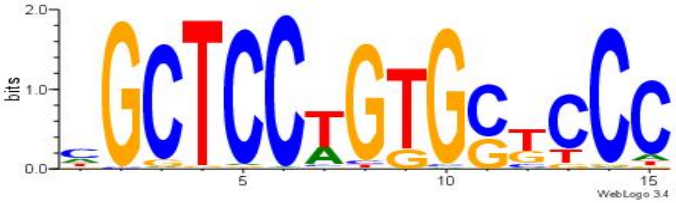

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	323
Motif name:	Motif 323
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0936097

Alignment:

```
GCTCTCAGGTCCA
GCTCTGAAGGTCC
```

Original motif Consensus sequence: GCTCTCAGGTCCA

Reverse complement motif Consensus sequence: TGGACCTGAGAGC

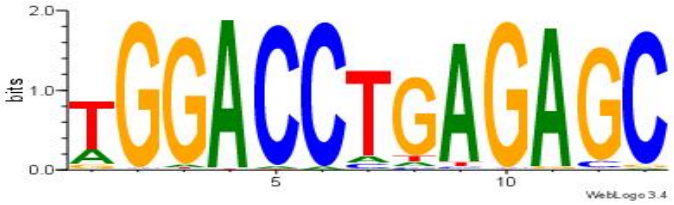

Dataset #:	1
Motif ID:	283
Motif name:	Motif 283
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0950343

Alignment:

GGATGGTGAGGGC

GGACCTTCAGAGC

Original motif Consensus sequence: GCCCTCACCATCC

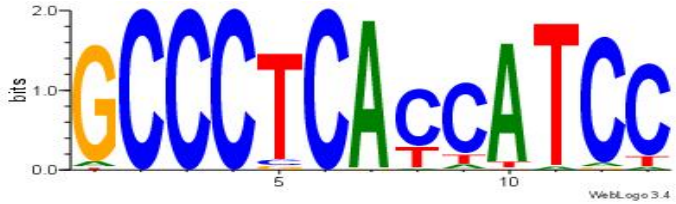

Reverse complement motif Consensus sequence: GGATGGTGAGGGC

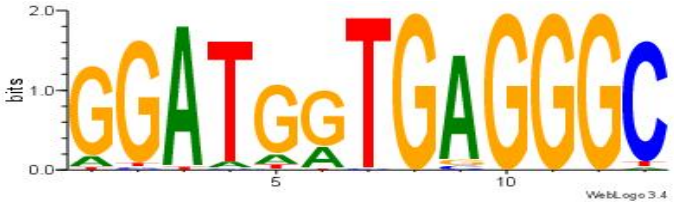

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.095516

Alignment:
KCCGGGCCTTAGCTGCCTTC
---GGACCTTCAGAGC----

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

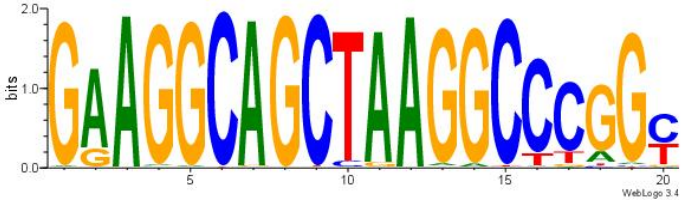

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

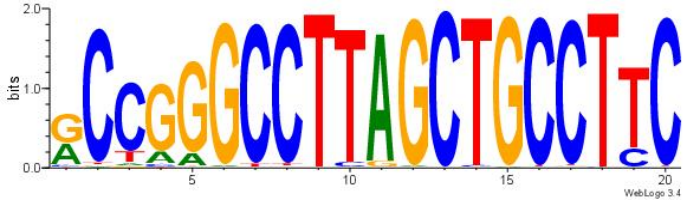

Dataset #: 1
Motif ID: 100
Motif name: Motif 100
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 13
Similarity score: 0.0958898

Alignment:
CGCGGCGCTTGCGGGCCAGC
---GGACCTTCAGAGC----

Original motif Consensus sequence: GCTGGCCCGCAAGCGCCGCG

Reverse complement motif Consensus sequence: CGCGGCGCTTGCGGGCCAGC

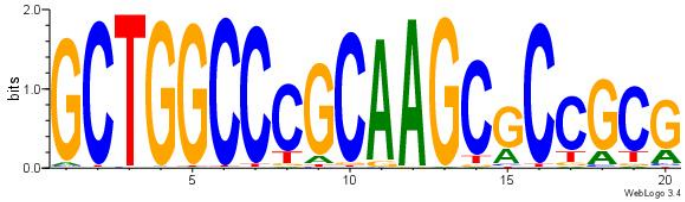

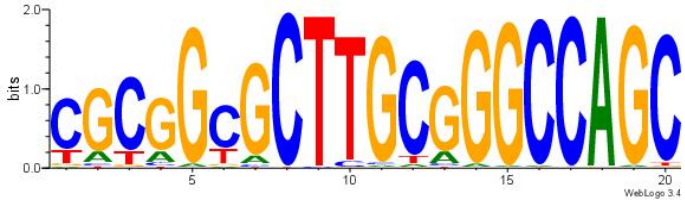

Dataset #:	1
Motif ID:	144
Motif name:	Motif 144
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0962563

Alignment:

```
GGGCTCCCACAGTGCAGCGG
-----GCTCTGAAGGTCC--
```

Original motif Consensus sequence: CCGCTGCACTGTGGGAGCCC

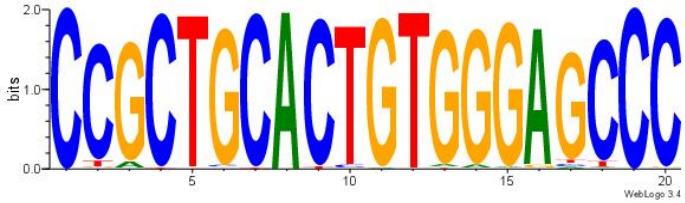

Reverse complement motif Consensus sequence: GGGCTCCCACAGTGCAGCGG

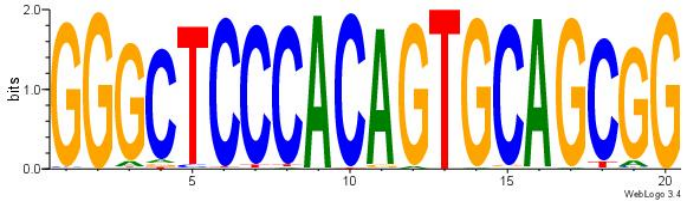

Dataset #: 1

Motif ID:	320
Motif name:	Motif 320
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.100273

Alignment:

```
CATCTGGAGCCCCA
GCTCTGAAGGTCC-
```

Original motif Consensus sequence: CATCTGGAGCCCCA

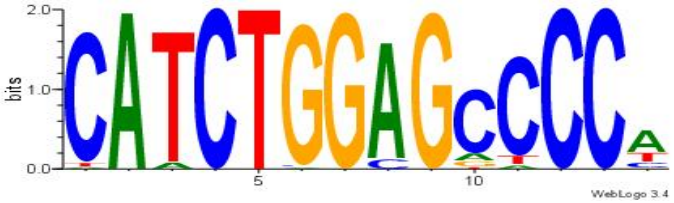

Reverse complement motif Consensus sequence: TGGGGCTCCAGAT

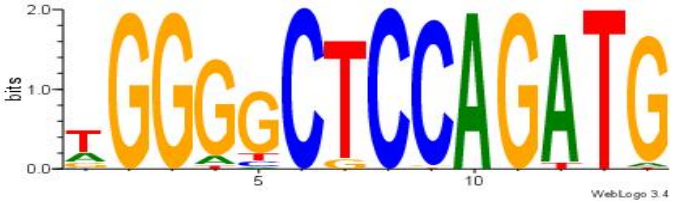

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.100372

Alignment:
CTAGACATAAAGGTTCTCCA
---GCTCTGAAGGTCC----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

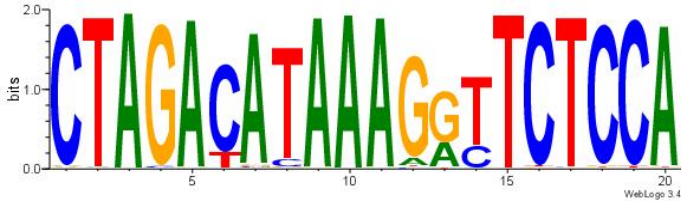

Reverse complement motif Consensus sequence: TGGAGAACCTTTATGTCTAG

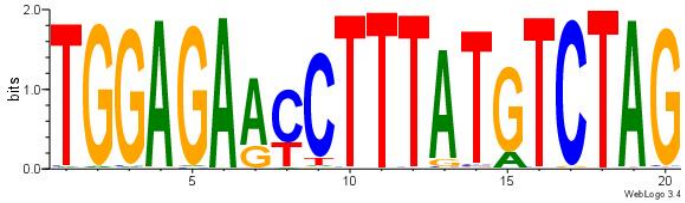

Dataset #:	1
Motif ID:	241
Motif name:	Motif 241
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.1026

Alignment:
TCGTTCACTCAGTGC
--GGACCTTCAGAGC

Original motif Consensus sequence: GCACTGAGTGAACGA

Reverse complement motif Consensus sequence: TCGTTCACTCAGTG

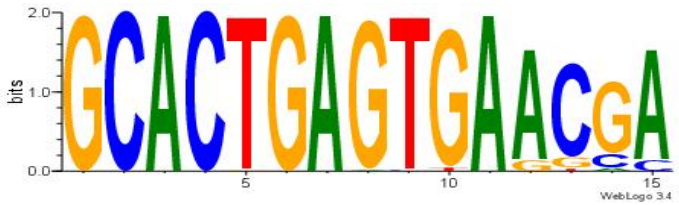

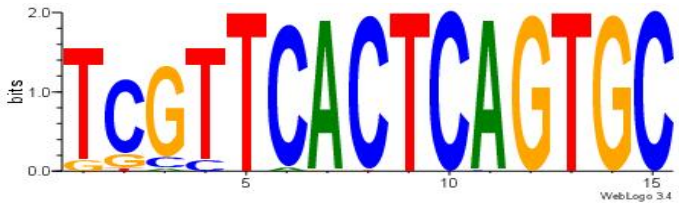

Dataset #:	1
Motif ID:	187
Motif name:	Motif 187
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.103266

Alignment:

```
TCTCTGAGCCTCAGTT
GCTCTGAAGGTCC---
```

Original motif Consensus sequence: TCTCTGAGCCTCAGTT

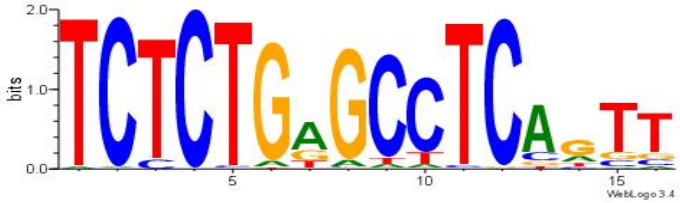

Reverse complement motif Consensus sequence: AACTGAGGCTCAGAGA

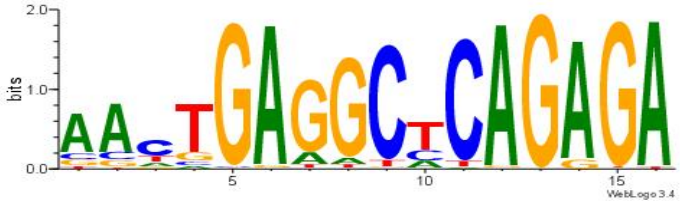

Dataset #: 1

Motif ID:	305
Motif name:	Motif 305
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.104859

Alignment:

```
AATGACCAATTGAGAGC
--GGACCTTCAGAGC--
```

Original motif Consensus sequence: AATGACCAATTGAGAGC

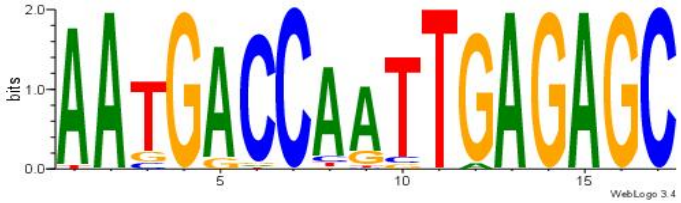

Reverse complement motif Consensus sequence: GCTCTCAATTGGTCATT

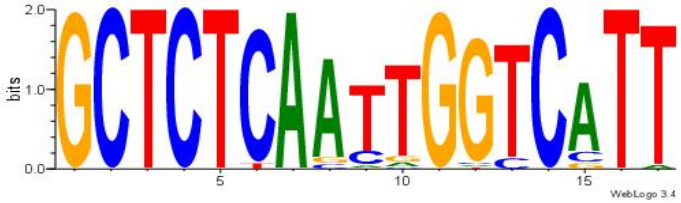

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.106039

Alignment:
AGATGCCAGCCAGAGCTCT
---GGACCTTCAGAGC---

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

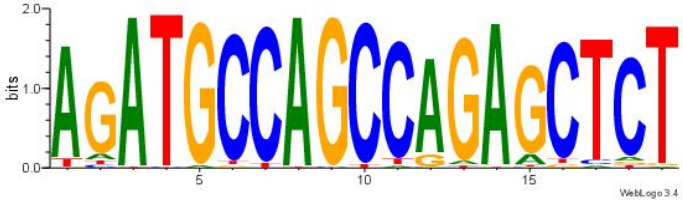

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

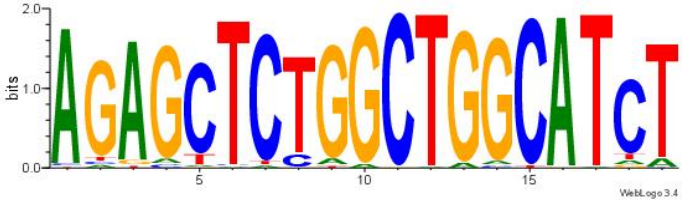

Dataset #: 1
Motif ID: 303
Motif name: Motif 303
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.106107

Alignment:
AGTTCTTAAAGATGGT
-GCTCTGAAGGTCC--

Original motif Consensus sequence: AGTTCTTAAAGATGGT

Reverse complement motif Consensus sequence: ACCATCTTTAAGAACT

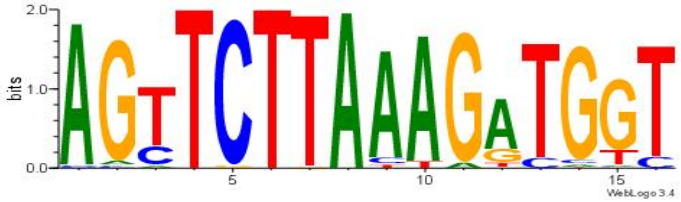

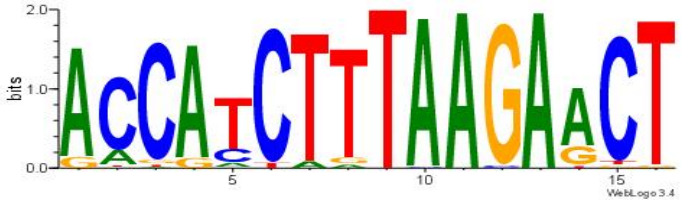

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.106335

Alignment:

```
GCAGCTTCACTCCTGA
---GGACCTTCAGAGC
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

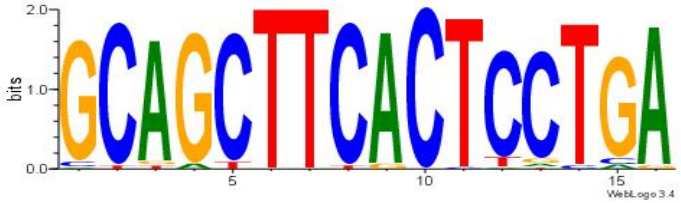

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

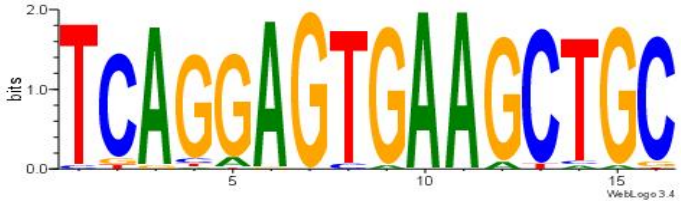

Dataset #: 1

Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.106645

Alignment:

```
GTTTAACCATTGAGGGCCAG
--GCTCTGAAGGTCC-----
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

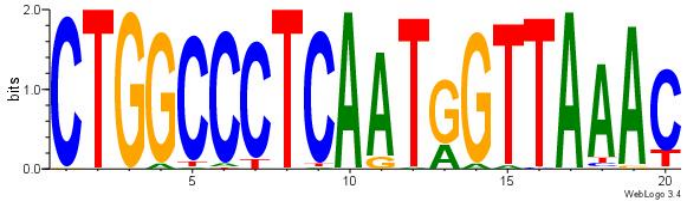

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

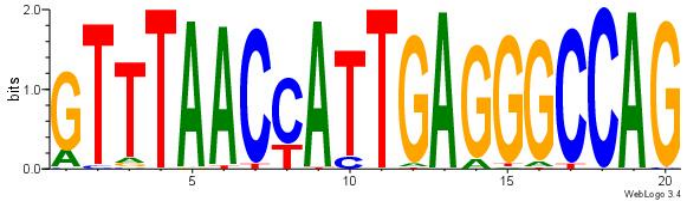

Dataset #:	1
Motif ID:	17
Motif name:	Motif 17
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	13

Similarity score: 0.107389

Alignment:
AGACAGTGGGYGCAGGHCA
------GGACCTTCAGAGC

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

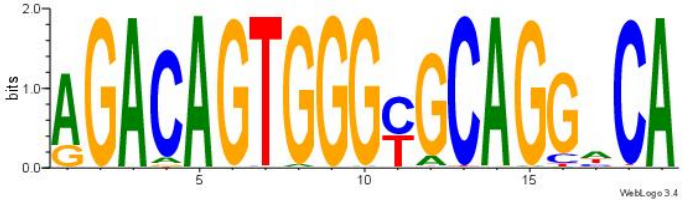

Reverse complement motif Consensus sequence: TGHCCTGCKCCCACTGTCT

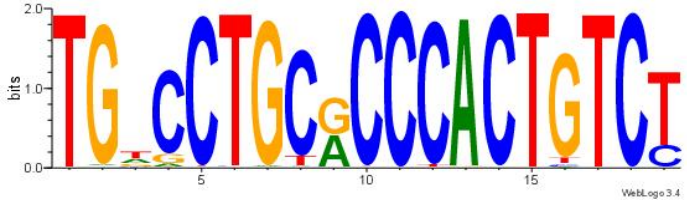

Dataset #: 1
Motif ID: 291
Motif name: Motif 291
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.107528

Alignment:
TAMGACCTCAGGTCCTCAG
--GGACCTTCAGAGC----

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

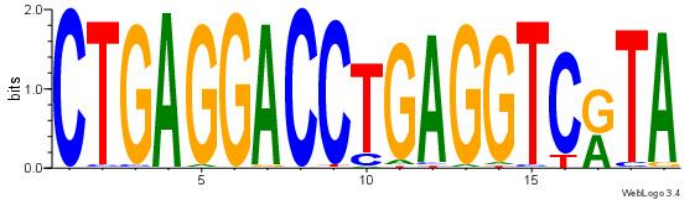

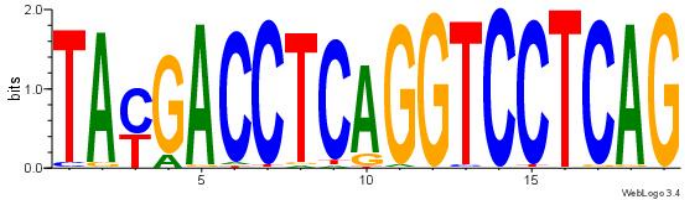

Dataset #:	1
Motif ID:	105
Motif name:	Motif 105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.108464

Alignment:

```
GCCTCTCCCTCCACACCTCC
-------GCTCTGAAGGTCC
```

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

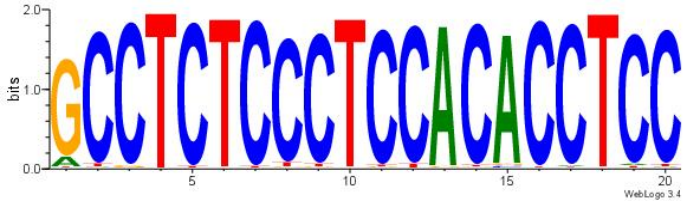

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

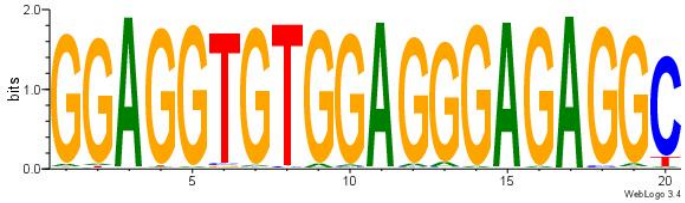

Dataset #: 1

Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.110769

Alignment:

```
GCAWSTGCAAAGGCCCT
-GCTCTGAAGGTCC---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

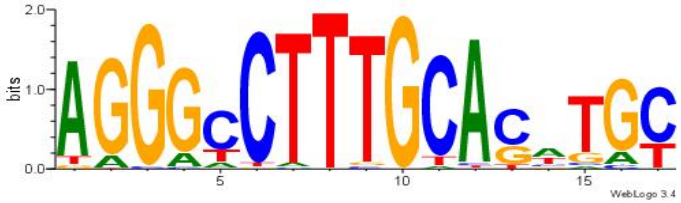

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

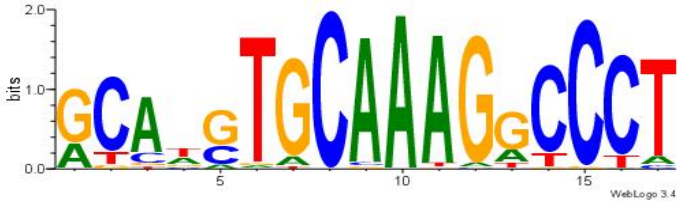

Dataset #:	1
Motif ID:	346
Motif name:	Motif 346
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.111244

Alignment:
GAGCTTTAAGATTT
GGACCTTCAGAGC-

Original motif Consensus sequence: AAATCTTAAAGCTC

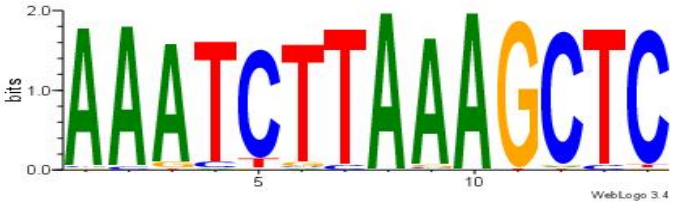

Reverse complement motif Consensus sequence: GAGCTTTAAGATT

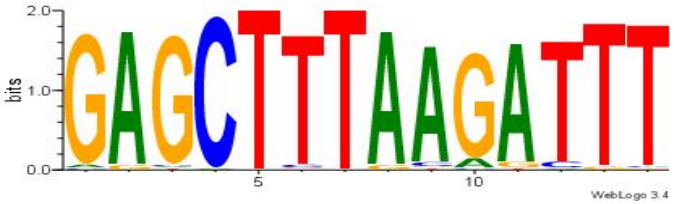

Dataset #: 1
Motif ID: 262
Motif name: Motif 262
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 13
Similarity score: 0.112989

Alignment:
GACAGGAGATTAACACTGAG
----GGACCTTCAGAGC---

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

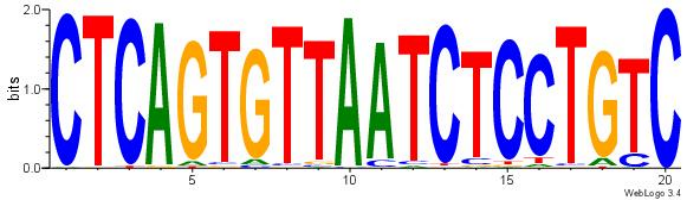

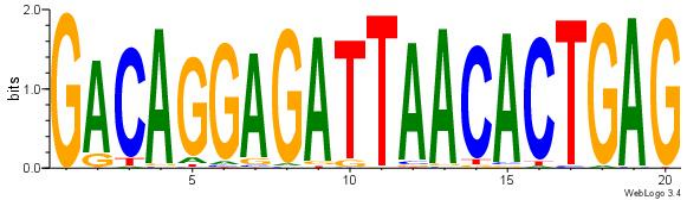

Dataset #:	1
Motif ID:	111
Motif name:	Motif 111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.113064

Alignment:

```
KGGGCDGAGGGGCTCCT
-GCTCTGAAGGTCC---
```

Original motif Consensus sequence: AGGAGCCCCTCHGCCCR

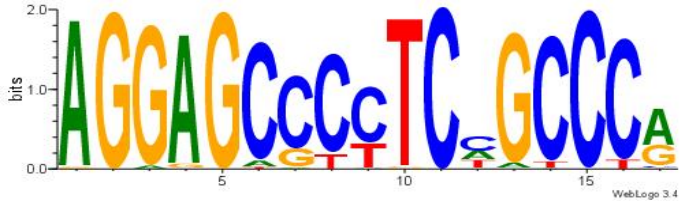

Reverse complement motif Consensus sequence: KGGGCDGAGGGGCTCCT

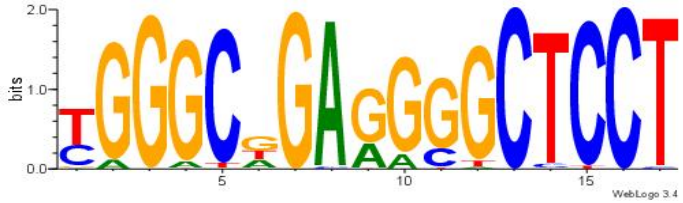

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.113087

Alignment:

```
AGAAATCGAGCRCAGCGCCG
-------GGACCTTCAGAGC
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

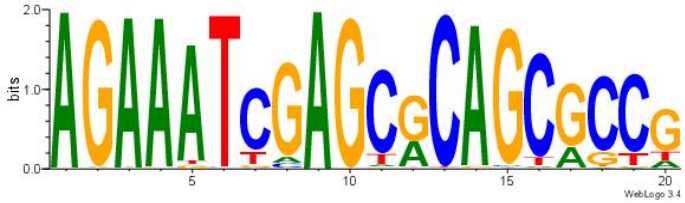

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

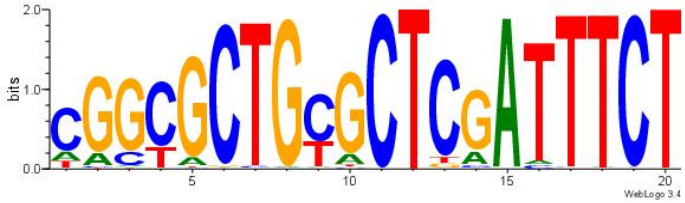

Dataset #:	1
Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13

Similarity score: 0.113426

Alignment:
GGCCMGCAGGGCKGGC
---GCTCTGAAGGTCC

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

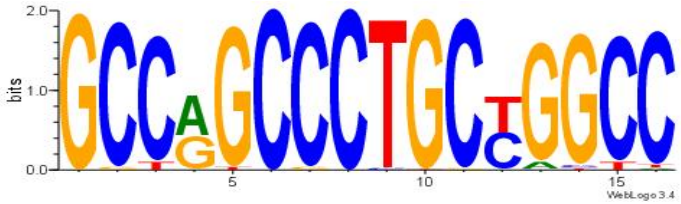

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

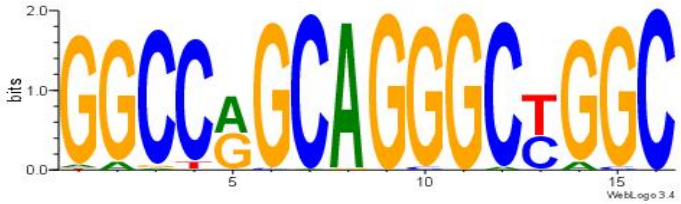

Dataset #: 1
Motif ID: 271
Motif name: Motif 271
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.113582

Alignment:
AGGGATCTAGGTTGCR
-GGACCTTCAGAGC--

Original motif Consensus sequence: AGGGATCTAGGTTGCR

Reverse complement motif Consensus sequence: KGCAACCTAGATCCCT

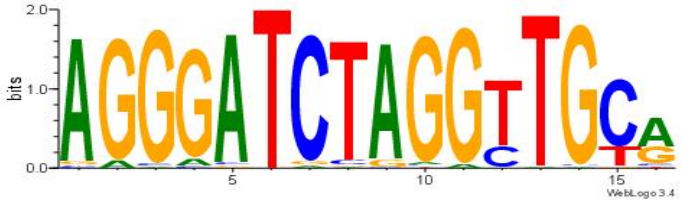

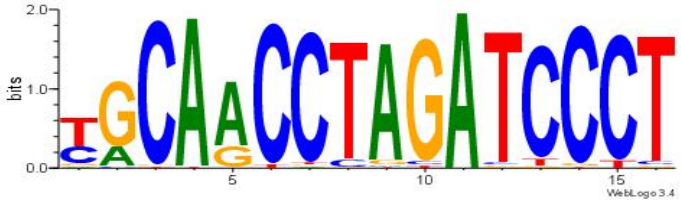

Dataset #:	1
Motif ID:	310
Motif name:	Motif 310
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.114347

Alignment:

```
CCCATGCAAGTCYRAAATCC
GCTCTGAAGGTCC-------
```

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

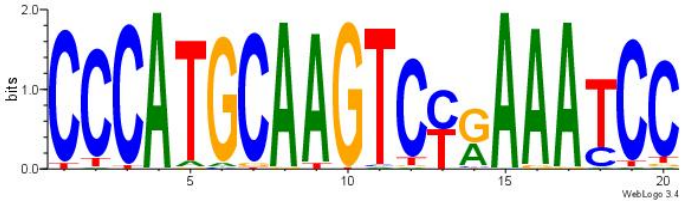

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

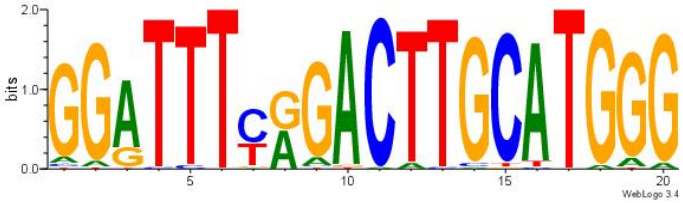

Dataset #: 1

Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.115448

Alignment:

```
AGTGACCCGATTTTCCAGGT
----GCTCTGAAGGTCC---
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

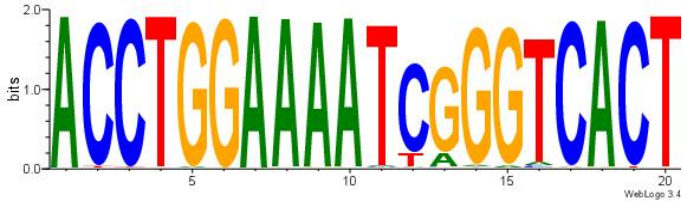

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

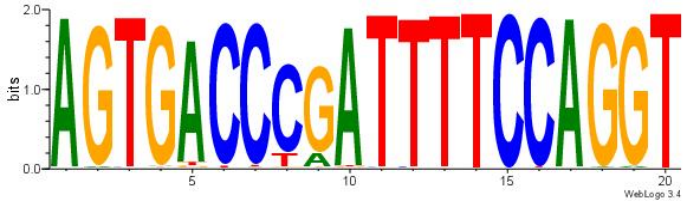

Dataset #:	1
Motif ID:	89
Motif name:	Motif 89
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.115487

Alignment:
GGCTGCGGAGGGTGTA
-GCTCTGAAGGTCC--

Original motif Consensus sequence: GGCTGCGGAGGGTGTA

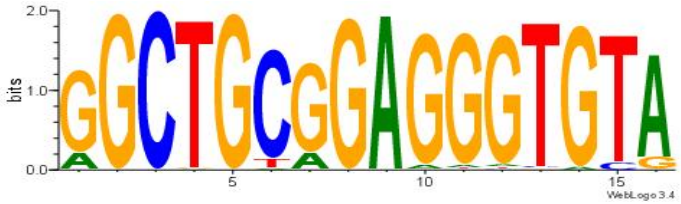

Reverse complement motif Consensus sequence: TACACCCTCCGCAGCC

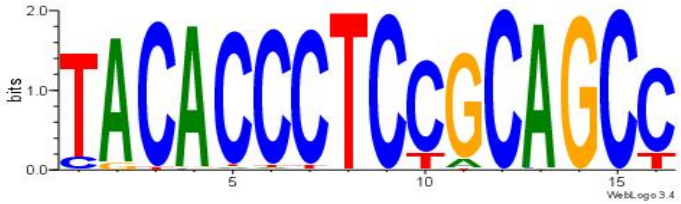

Dataset #: 1
Motif ID: 206
Motif name: Motif 206
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.116262

Alignment:
GGRCKCACWGGAGC
-GGACCTTCAGAGC

Original motif Consensus sequence: GCTCCWGTGYGKCC

Reverse complement motif Consensus sequence: GGRCKCACWGGA

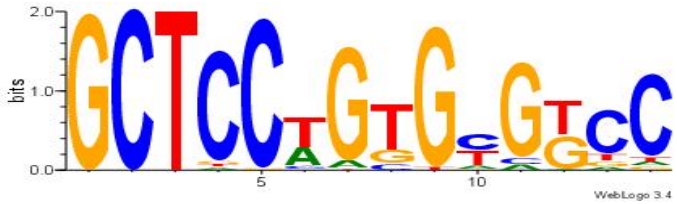

Dataset #:	1
Motif ID:	163
Motif name:	Motif 163
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.11632

Alignment:

```
CCTCCGTGGGCTCC
GCTCTGAAGGTCC-
```

Original motif Consensus sequence: CCTCCGTGGGCTCC

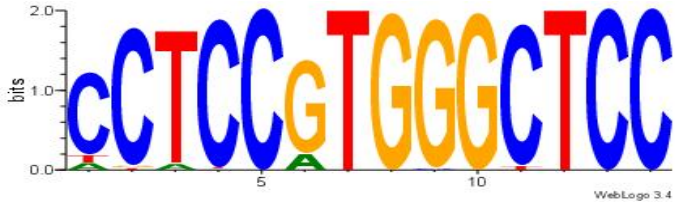

Reverse complement motif Consensus sequence: GGAGCCCACGGAG

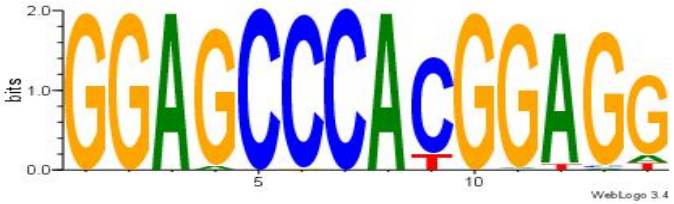

Dataset #:	1
Motif ID:	29

Motif name:	Motif 29
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.116727

Alignment:

```
MGTCTMKCTCTGTKGCCCAG
-GCTCTGAAGGTCC------
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

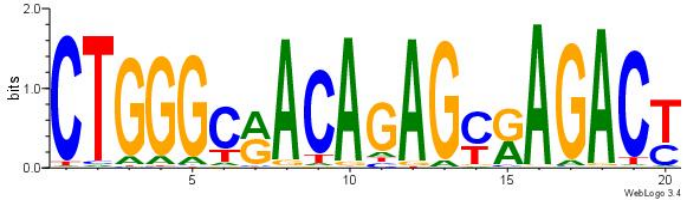

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

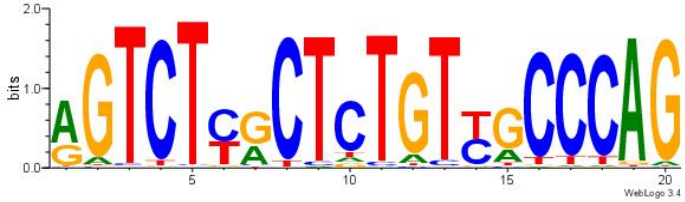

Dataset #:	1
Motif ID:	21
Motif name:	Motif 21
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.116921

Alignment:
KACGGGCTTAARAAACGGC
---GGACCTTCAGAGC---

Original motif Consensus sequence: GCCGTTTKTTAAGCCCGTY

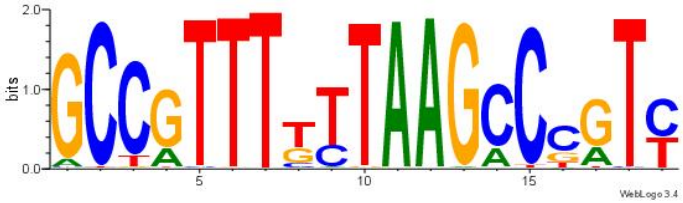

Reverse complement motif Consensus sequence:
KACGGGCTTAARAAACGGC

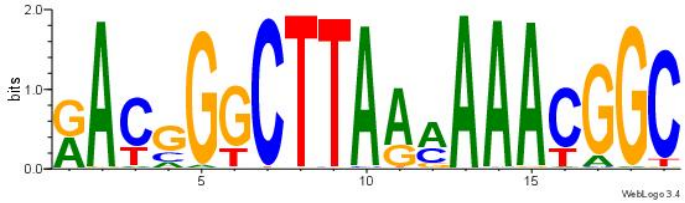

Dataset #:	1
Motif ID:	128
Motif name:	Motif 128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.117361

Alignment:
CMGCTCCGAGTGCGG
GCTCTGAAGGTCC--

Original motif Consensus sequence: CCGCACTCGGAGCRG

Reverse complement motif Consensus sequence:
CMGCTCCGAGTGCGG

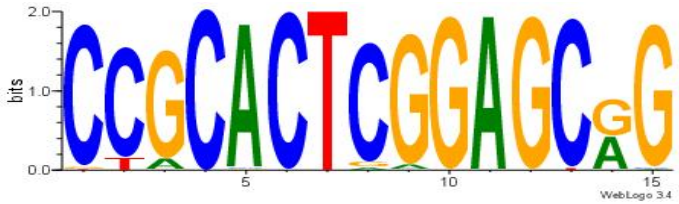

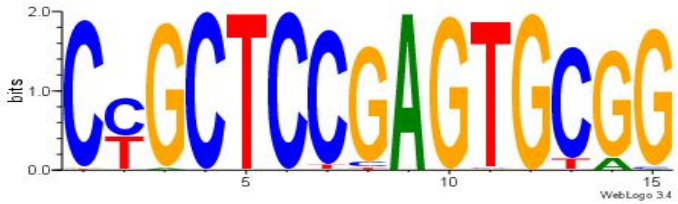

Dataset #: 1
Motif ID: 52
Motif name: Motif 52
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.118284

Alignment:
GGTGGAGCTGCCTGCCAGTC
---GGACCTTCAGAGC----

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

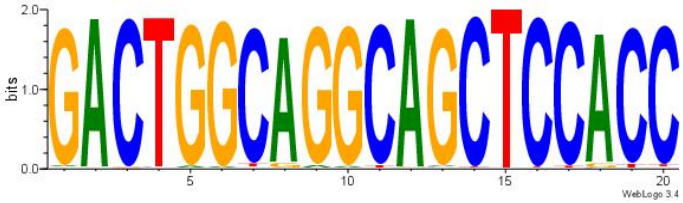

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

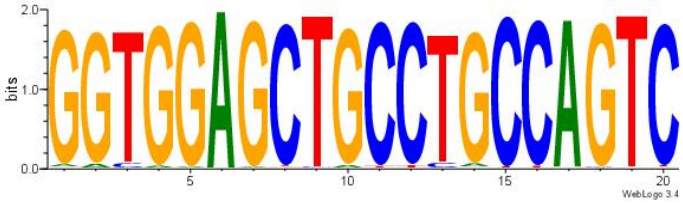

Dataset #: 1

Motif ID:	116
Motif name:	Motif 116
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.118482

Alignment:

```
AGGAGCGCCTCTGC
-GGACCTTCAGAGC
```

Original motif Consensus sequence: GCAGAGGCGCTCCT

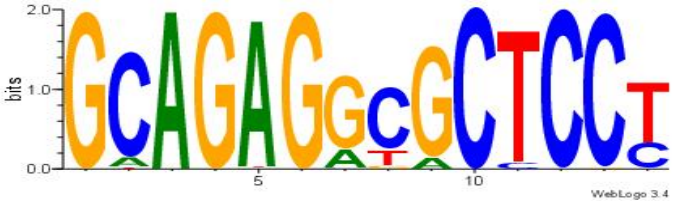

Reverse complement motif Consensus sequence: AGGAGCGCCTCTG

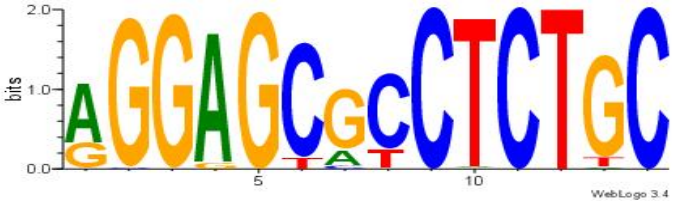

Dataset #:	1
Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.118872

Alignment:
ACAGGCTTTGTGTGAGCA
----GCTCTGAAGGTCC-

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

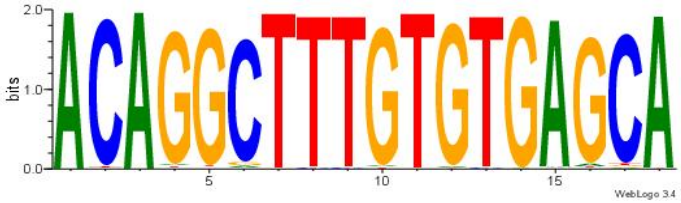

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

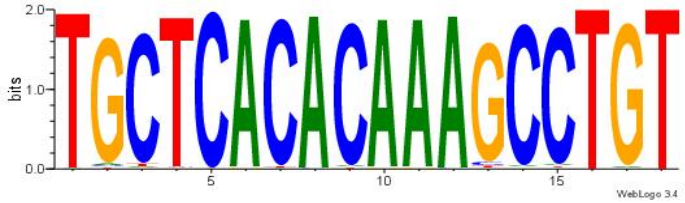

Dataset #:	1
Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.119565

Alignment:
AGCTCCCAGCGTGAGCGACG
-GCTCTGAAGGTCC------

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

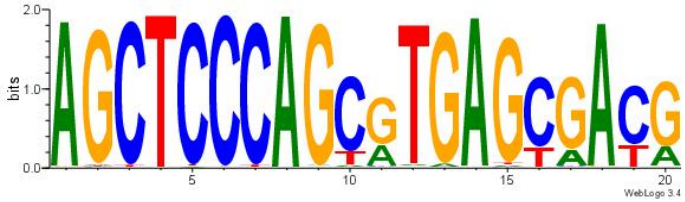

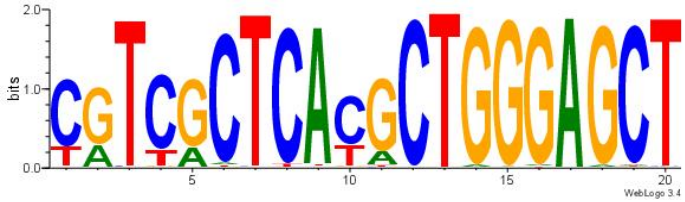

Dataset #:	1
Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.119738

Alignment:

```
CACCAGACTCAGGAGCCCAG
-GCTCTGAAGGTCC------
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

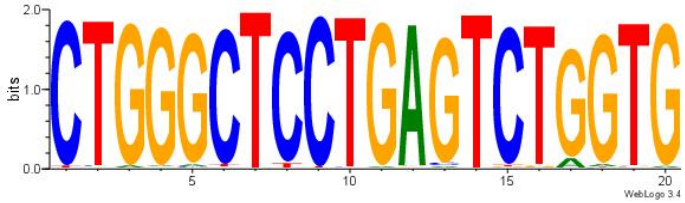

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

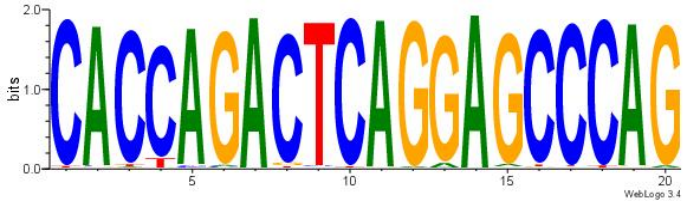

Dataset #: 1

Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.119822

Alignment:

```
GGTGGGGGGGTCAGCCCCC
----GGACCTTCAGAGC--
```

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

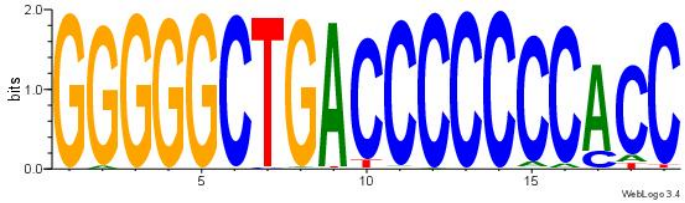

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

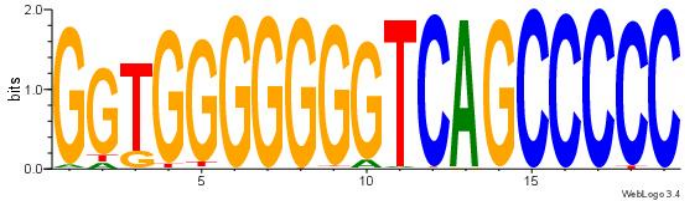

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.119951

Alignment:
CACTTCCCAGACGGGGCG
----GCTCTGAAGGTCC-

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

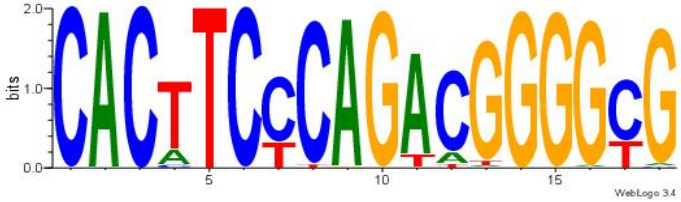

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

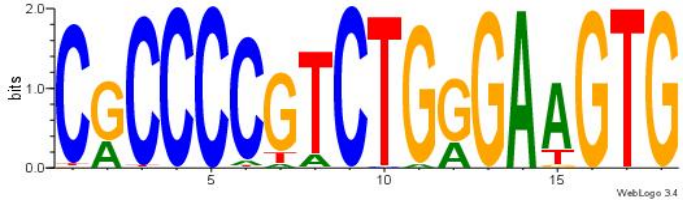

Dataset #: 1
Motif ID: 84
Motif name: Motif 84
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.120305

Alignment:
CTGGGTCCCCCAGCAGTGCC
-GGACCTTCAGAGC------

Original motif Consensus sequence: CTGGGTCCCCCAGCAGTGCC

Reverse complement motif Consensus sequence: GGCACTGCTGGGGGACCCAG

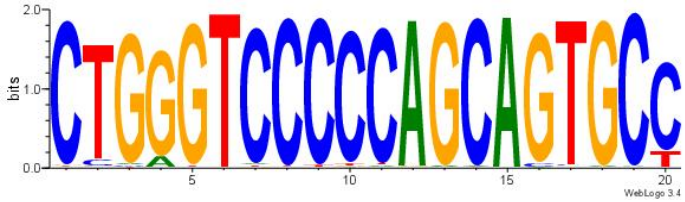

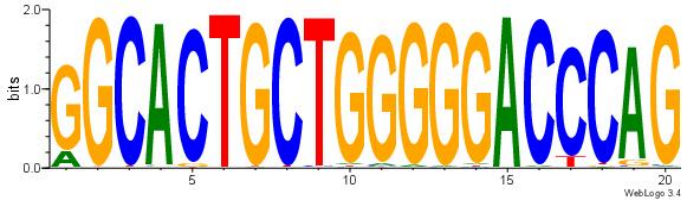

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.120369

Alignment:

```
GCCAGTCACAAAARGACAMA
-----GCTCTGAAGGTCC--
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

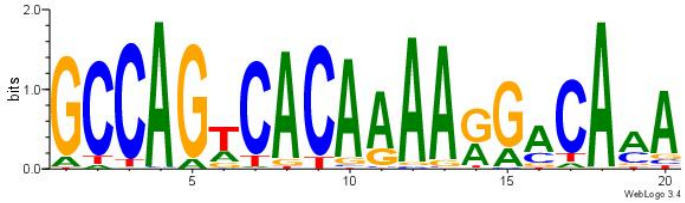

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

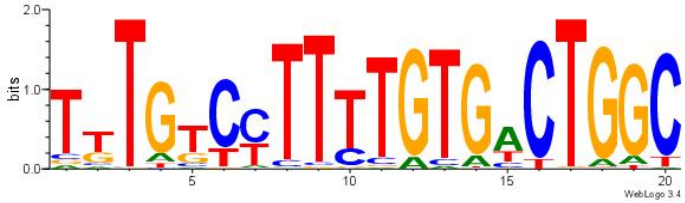

Dataset #: 1

Motif ID:	170
Motif name:	Motif 170
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.12043

Alignment:

```
ATTGATMKCCAGGGTTGATT
--GGACCTTCAGAGC-----
```

Original motif Consensus sequence: AATCAACCCTGGYRATCAAT

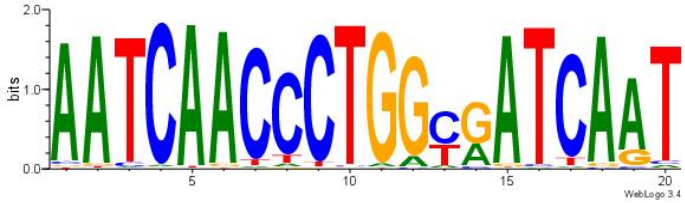

Reverse complement motif Consensus sequence: ATTGATMKCCAGGGTTGATT

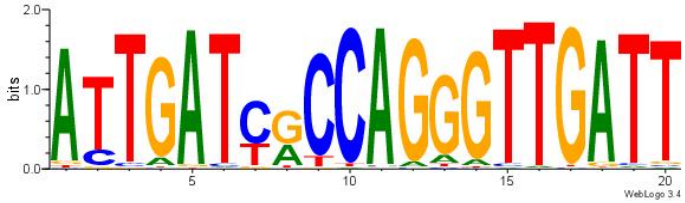

Dataset #:	1
Motif ID:	220
Motif name:	Motif 220
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.120557

Alignment:
GTGGGTGCAGTGCA
GGACCTTCAGAGC-

Original motif Consensus sequence: TGCACTGCACCCAC

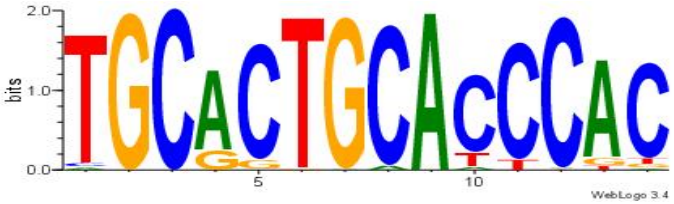

Reverse complement motif Consensus sequence: GTGGGTGCAGTGC

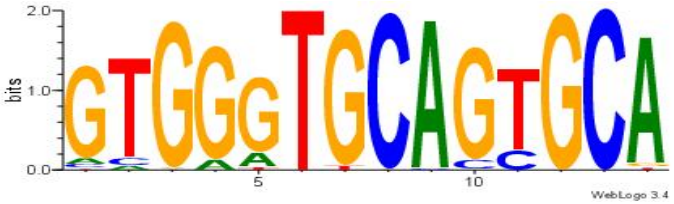

Dataset #:	1
Motif ID:	205
Motif name:	Motif 205
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.120594

Alignment:
CATCTGGCAGCCCA
GCTCTGAAGGTCC-

Original motif Consensus sequence: CATCTGGCAGCCCA

Reverse complement motif Consensus sequence: TGGGCTGCCAGAT

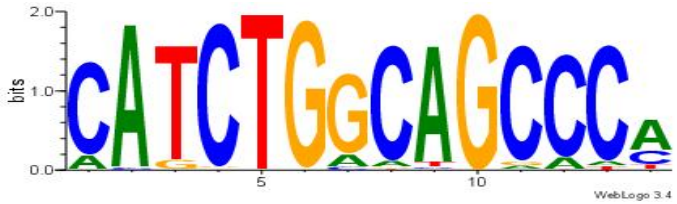

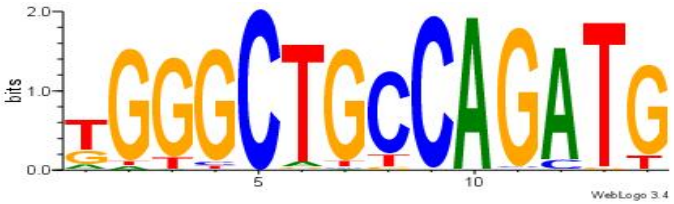

Dataset #:	1
Motif ID:	153
Motif name:	Motif 153
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.12091

Alignment:

```
GGCACTCCCTAGTG
GGACCTTCAGAGC-
```

Original motif Consensus sequence: CACTAGGGAGTGCC

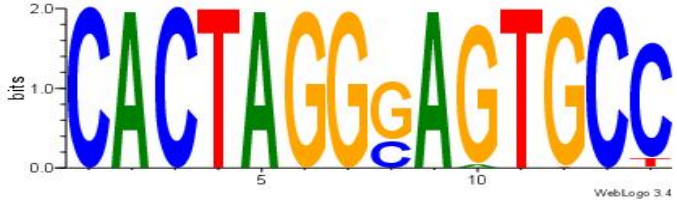

Reverse complement motif Consensus sequence: GGCACTCCCTAGT

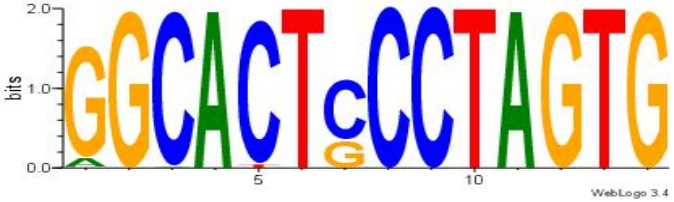

Dataset #: 1 Motif ID: 363 Motif name: Motif 363

Original motif Consensus sequence: CAAGGTCTGATTGTW

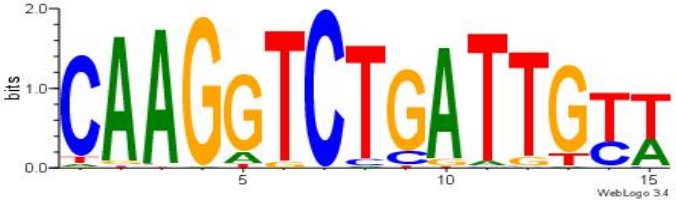

Reverse complement motif Consensus sequence: WACAATCAGACCT

Best Matches for Motif ID 363 (Highest to Lowest)

Dataset #:	1
Motif ID:	227
Motif name:	Motif 227
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.0937179

Alignment:

```
ATTCAASATGAGATTTGGG
-CAAGGTCTGATTGTW---
```

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

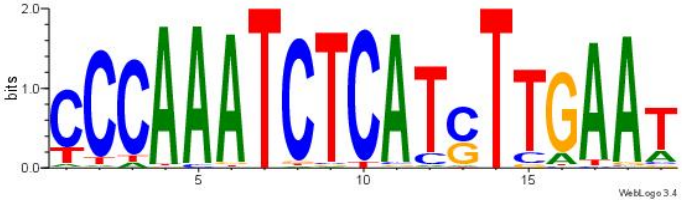

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

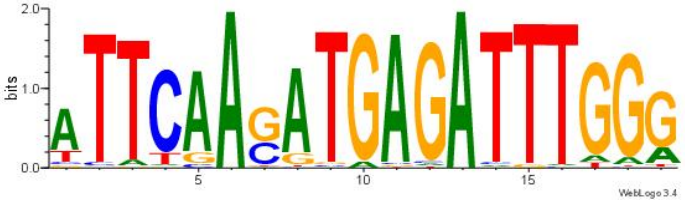

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.0941068

Alignment:

```
AAGTCCAAGATCAAGGTGYY
-----CAAGGTCTGATTGTW
```

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

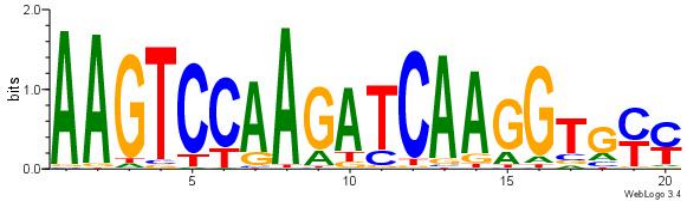

Reverse complement motif Consensus sequence: KKCACCTTGATCTTGGACTT

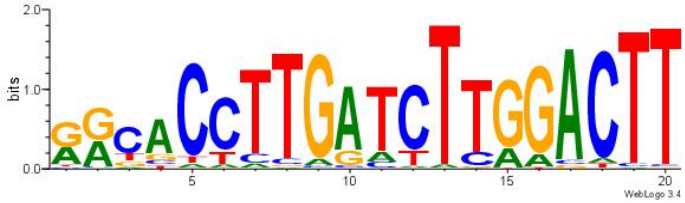

Dataset #:	1
Motif ID:	224
Motif name:	Motif 224
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 15
Similarity score: 0.0959593

Alignment:
AATGAGTTAAGACTTTG
WACAATCAGACCTTG--

Original motif Consensus sequence: AATGAGTTAAGACTTTG

Reverse complement motif Consensus sequence: CAAAGTCTTAACTCATT

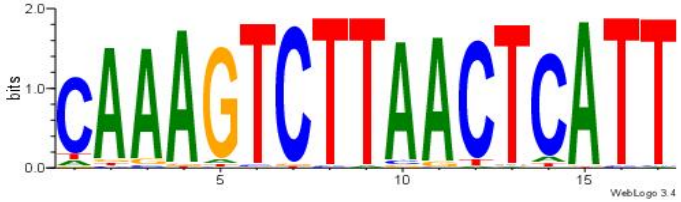

Dataset #: 1
Motif ID: 349
Motif name: Motif 349
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0961526

Alignment:
TTCAMTCATGATTTGGCTCT
WACAATCAGACCTTG-----

Original motif Consensus sequence: AGAGCCAAATCATGARTGAA

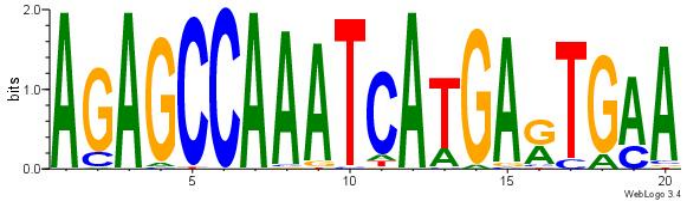

Reverse complement motif Consensus sequence: TTCAMTCATGATTTGGCTCT

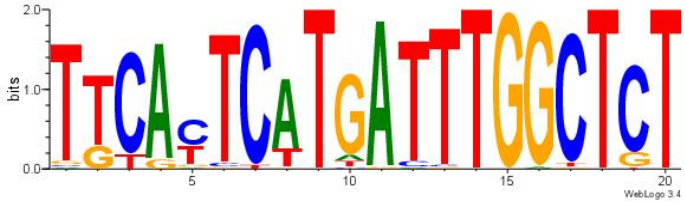

Dataset #:	1
Motif ID:	129
Motif name:	Motif 129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0975054

Alignment:

```
TGAGKCAATTAAACCTCTT
---WACAATCAGACCTTG-
```

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

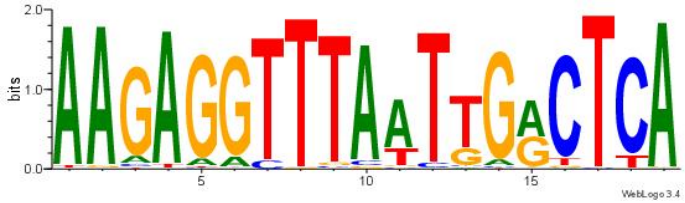

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

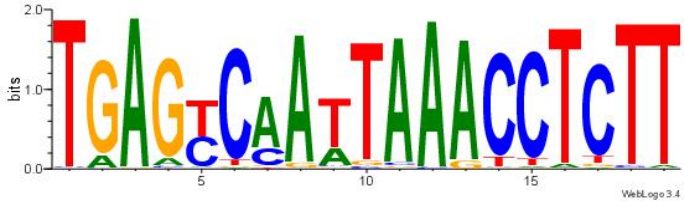

Dataset #:	1
Motif ID:	336
Motif name:	Motif 336
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.0993036

Alignment:

```
CAGGTGGTKTTTGGTTACAT
-----CAAGGTCTGATTGTW
```

Original motif Consensus sequence: ATGTAACCAAAYACCACCTG

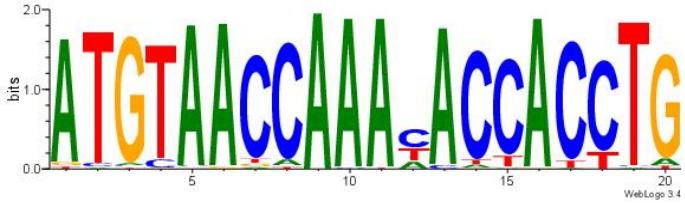

Reverse complement motif Consensus sequence: CAGGTGGTKTTTGGTTACAT

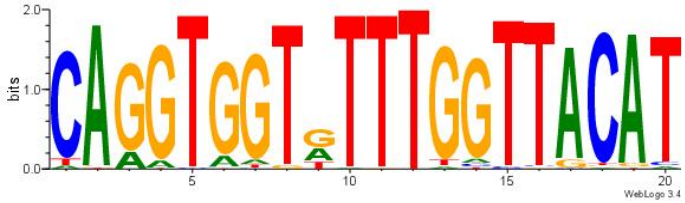

Dataset #:	1
Motif ID:	239
Motif name:	Motif 239
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 15
Similarity score: 0.103878

Alignment:
AGCCTCCAGAACTGT
WACAATCAGACCTTG

Original motif Consensus sequence: AGCCTCCAGAACTGT

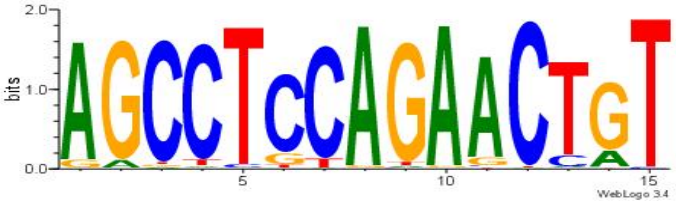

Reverse complement motif Consensus sequence: ACAGTTCTGGAGG

Dataset #: 1
Motif ID: 189
Motif name: Motif 189
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.103891

Alignment:
CAATGATAGACTGGAT
-CAAGGTCTGATTGTW

Original motif Consensus sequence: ATCCAGTCTATCATTG

Reverse complement motif Consensus sequence: CAATGATAGACTGGAT

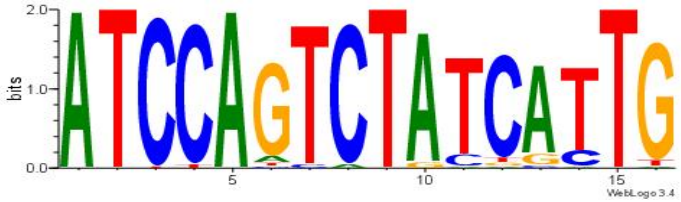

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.105008

Alignment:

```
AGAGCTCTGGCTGGCATCT
----CAAGGTCTGATTGTW
```

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

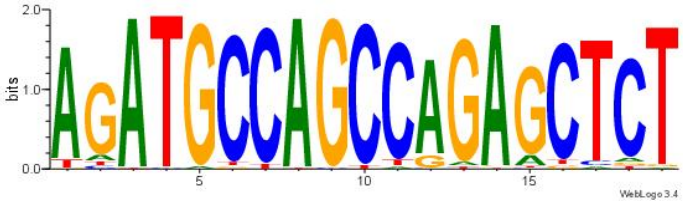

Reverse complement motif Consensus sequence: AGAGCTCTGGCTGGCATCT

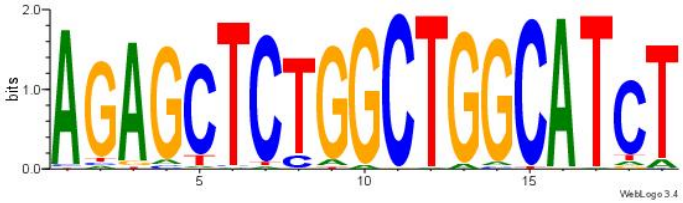

Dataset #: 1

Motif ID:	95
Motif name:	Motif 95
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.106302

Alignment:

```
CACCTCCCAGACMGGGT
-WACAATCAGACCTTG-
```

Original motif Consensus sequence: ACCCYGTCTGGGAGGTG

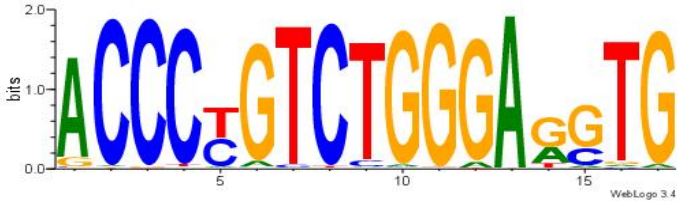

Reverse complement motif Consensus sequence: CACCTCCCAGACMGGGT

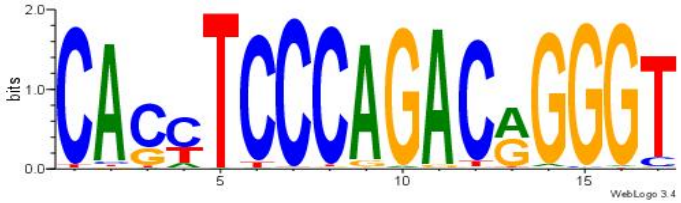

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.107124

Alignment:
CCTAGATTTCAGARGATGT
-WACAATCAGACCTTG---

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

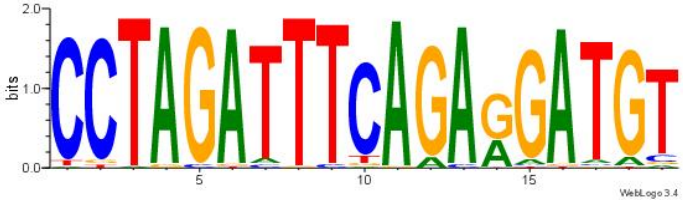

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

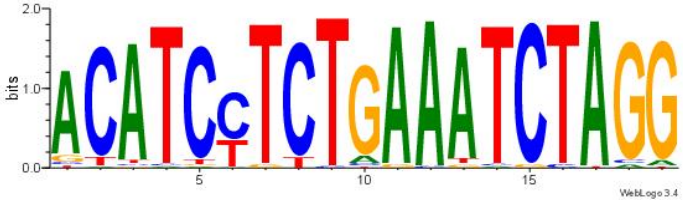

Dataset #: 1
Motif ID: 194
Motif name: Motif 194
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 5
Number of overlap: 15
Similarity score: 0.109821

Alignment:
CAGCTACTCKTATACCCTTG
----WACAATCAGACCTTG-

Original motif Consensus sequence: CAAGGGTATAYGAGTAGCTG

Reverse complement motif Consensus sequence:
CAGCTACTCKTATACCCTTG

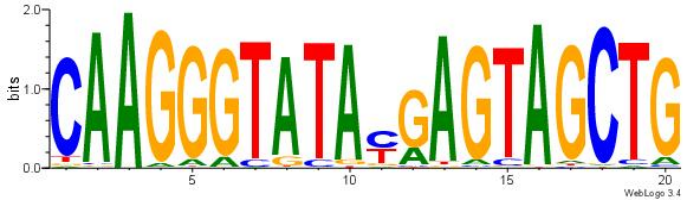

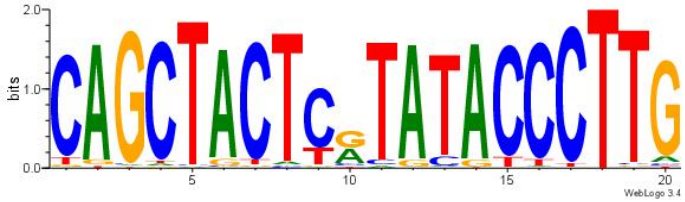

Dataset #:	1
Motif ID:	35
Motif name:	Motif 35
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.110674

Alignment:

```
CAGAAATCACCCGTCTT
-WACAATCAGACCTTG-
```

Original motif Consensus sequence: CAGAAATCACCCGTCTT

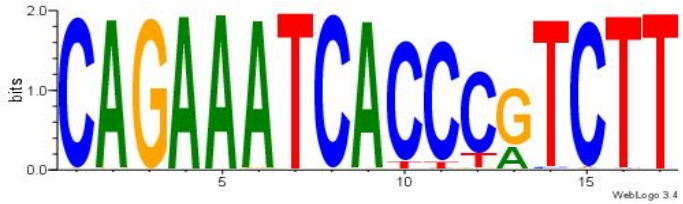

Reverse complement motif Consensus sequence: AAGACGGGTGATTTCTG

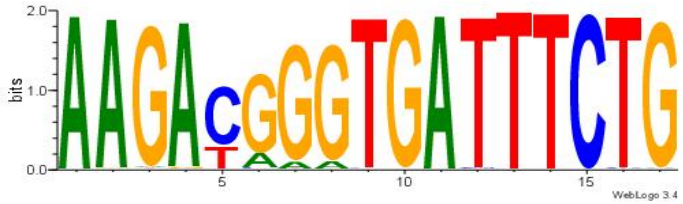

Dataset #:	1

Motif ID:	254
Motif name:	Motif 254
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.110919

Alignment:

```
ATAGGAATGCTTGTGATTTT
-----CAAGGTCTGATTGTW
```

Original motif Consensus sequence: AAAATCACAAGCATTCCTAT

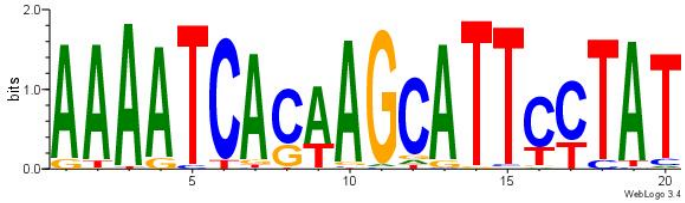

Reverse complement motif Consensus sequence: ATAGGAATGCTTGTGATTTT

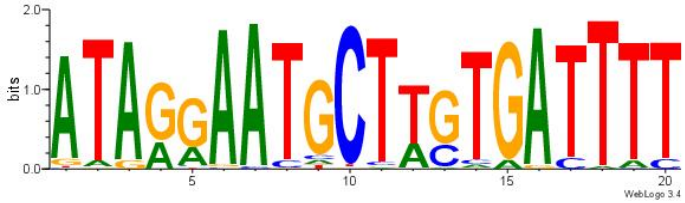

Dataset #:	1
Motif ID:	154
Motif name:	Motif 154
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.111145

Alignment:
TCCTATGAGAATCTAATG
WACAATCAGACCTTG---

Original motif Consensus sequence: CATTAGATTCTCATAGGA

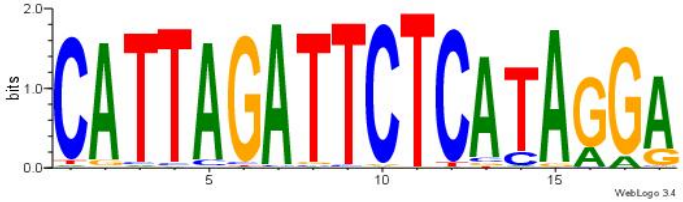

Reverse complement motif Consensus sequence: TCCTATGAGAATCTAATG

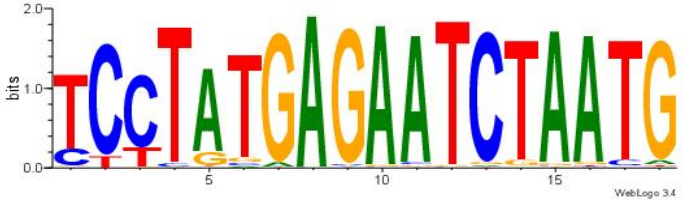

Dataset #: 1
Motif ID: 235
Motif name: Motif 235
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.111272

Alignment:
GCCAATTTCTCCCATTTGGA
---CAAGGTCTGATTGTW--

Original motif Consensus sequence: TCCAAATGGGAGAAATTGGC

Reverse complement motif Consensus sequence: GCCAATTTCTCCCATTTGGA

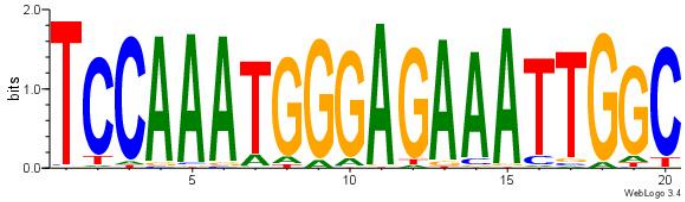

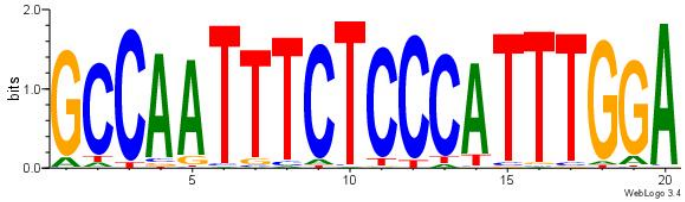

Dataset #:	1
Motif ID:	332
Motif name:	Motif 332
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.111597

Alignment:

```
GTTTAACCATTGAGGGCCAG
-----WACAATCAGACCTTG
```

Original motif Consensus sequence: CTGGCCCTCAATGGTTAAAC

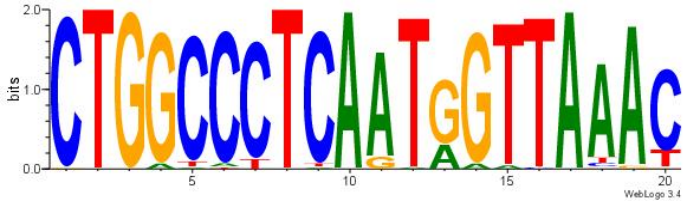

Reverse complement motif Consensus sequence: GTTTAACCATTGAGGGCCAG

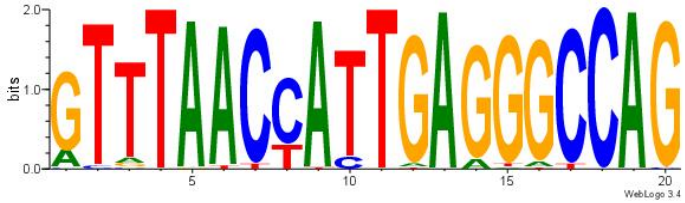

Dataset #:	1

Motif ID:	159
Motif name:	Motif 159
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.112793

Alignment:

```
TGCTCACACAAAGCCTGT
--WACAATCAGACCTTG-
```

Original motif Consensus sequence: ACAGGCTTTGTGTGAGCA

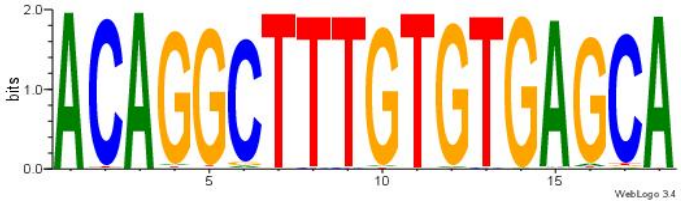

Reverse complement motif Consensus sequence: TGCTCACACAAAGCCTGT

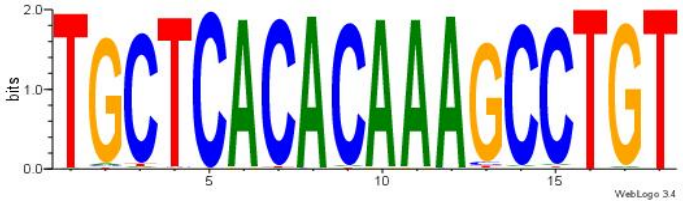

Dataset #:	1
Motif ID:	341
Motif name:	Motif 341
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15

Similarity score: 0.113044

Alignment:
ATCCATCCATCCATCCA
--WACAATCAGACCTTG

Original motif Consensus sequence: ATCCATCCATCCATCCA

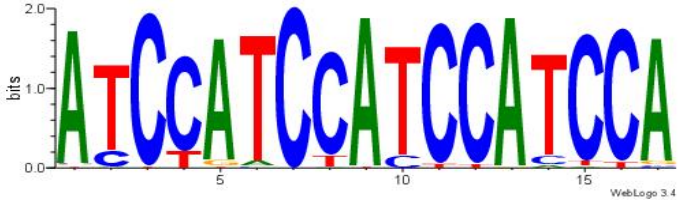

Reverse complement motif Consensus sequence: TGGATGGATGGATGGAT

Dataset #: 1
Motif ID: 309
Motif name: Motif 309
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 15
Similarity score: 0.113098

Alignment:
CATTCTGGGGTCTGGAGGAY
-----CAAGGTCTGATTGTW

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

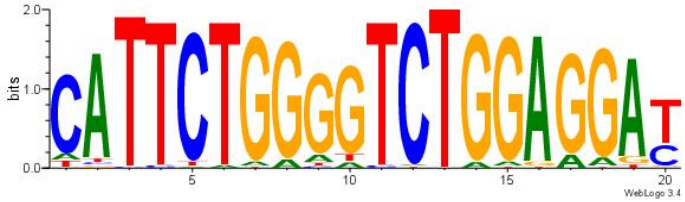

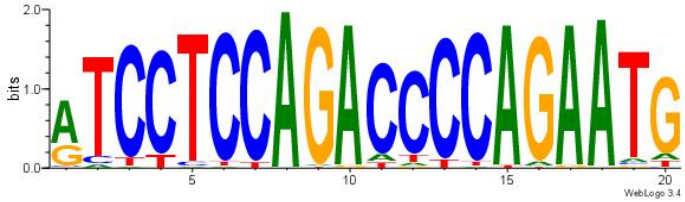

Dataset #:	1
Motif ID:	117
Motif name:	Motif 117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.113176

Alignment:

```
AACAACAACAACAAMAA
--WACAATCAGACCTTG
```

Original motif Consensus sequence: AACAACAACAACAAMAA

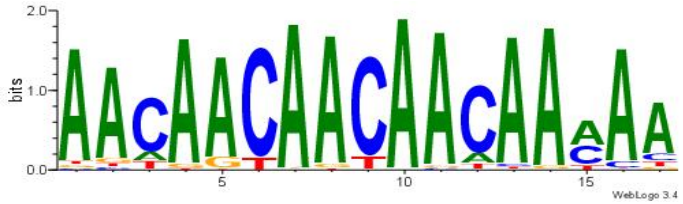

Reverse complement motif Consensus sequence: TTYTTGTTGTTGTTGTT

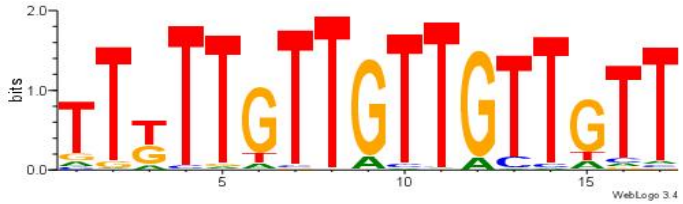

Dataset #:	1

Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.11321

Alignment:

```
GACATGAGCTGGCGCTTG
--CAAGGTCTGATTGTW-
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

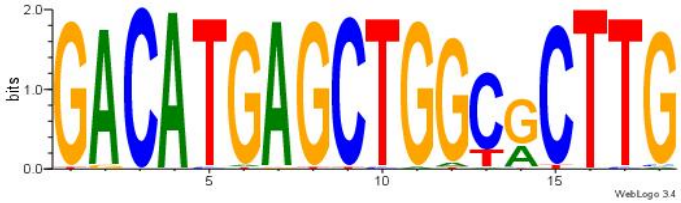

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

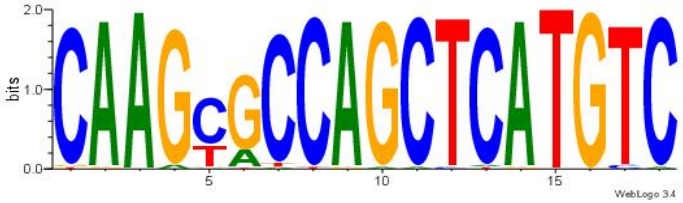

Dataset #:	1
Motif ID:	36
Motif name:	Motif 36
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15

Similarity score: 0.113446

Alignment:
CGCCCATCGTCTGGGATGT
CAAGGTCTGATTGTW----

Original motif Consensus sequence: ACATCCCAGACGATGGGCG

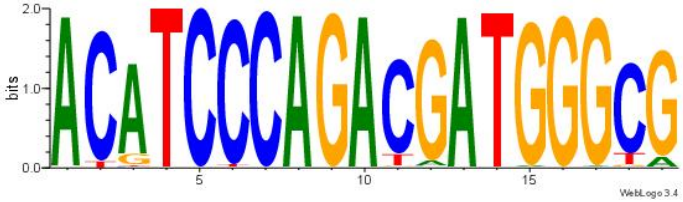

Reverse complement motif Consensus sequence:
CGCCCATCGTCTGGGATGT

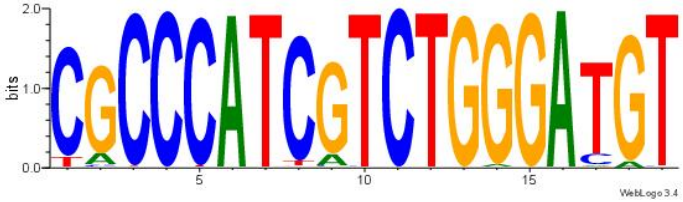

Dataset #:	1
Motif ID:	85
Motif name:	Motif 85
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.114083

Alignment:
CTAGACATAAAGGTTCTCCA
CAAGGTCTGATTGTW-----

Original motif Consensus sequence: CTAGACATAAAGGTTCTCCA

Reverse complement motif Consensus sequence:
TGGAGAACCTTTATGTCTAG

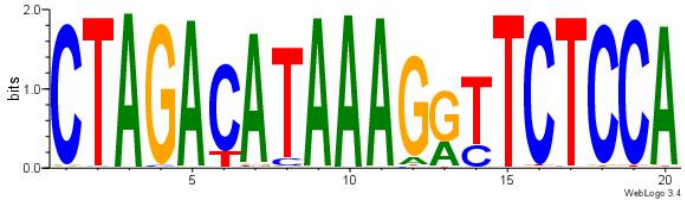

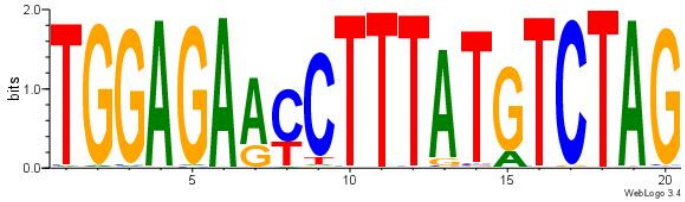

Dataset #:	1
Motif ID:	201
Motif name:	Motif 201
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.11446

Alignment:

```
GTAACACTCACCGCGARGGT
---WACAATCAGACCTTG--
```

Original motif Consensus sequence: GTAACACTCACCGCGARGGT

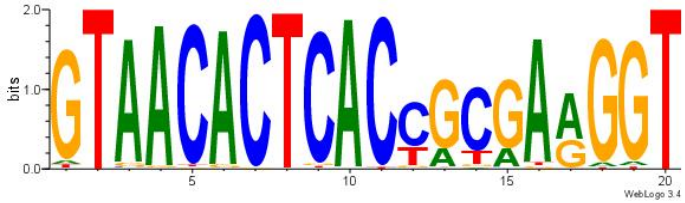

Reverse complement motif Consensus sequence: ACCKTCGCGGTGAGTGTTAC

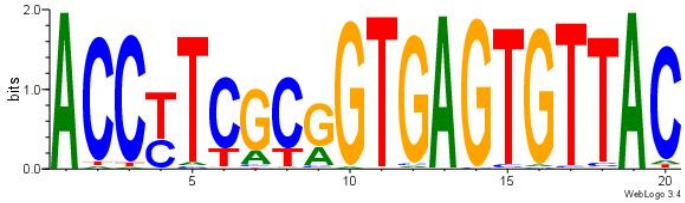

Dataset #:	1

Motif ID:	195
Motif name:	Motif 195
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.115038

Alignment:

```
ACCCAATWTGTAGTCTTTTA
--CAAGGTCTGATTGTW---
```

Original motif Consensus sequence: TAAAAGACTACAWATTGGGT

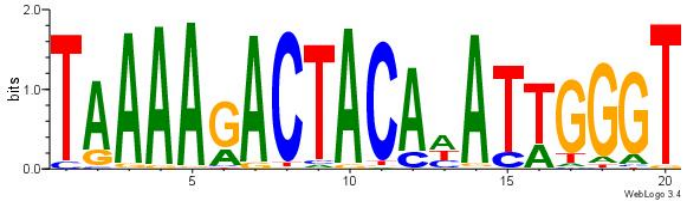

Reverse complement motif Consensus sequence: ACCCAATWTGTAGTCTTTTA

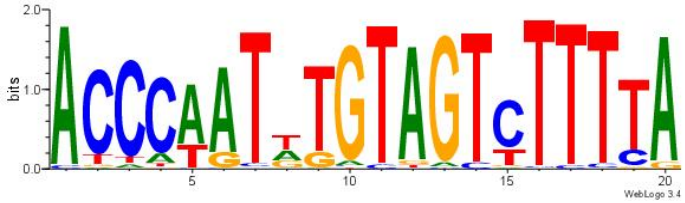

Dataset #:	1
Motif ID:	76
Motif name:	Motif 76
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15

Similarity score: 0.11527

Alignment:
GTGCCAGGCACTGTKCTARG
---CAAGGTCTGATTGTW--

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

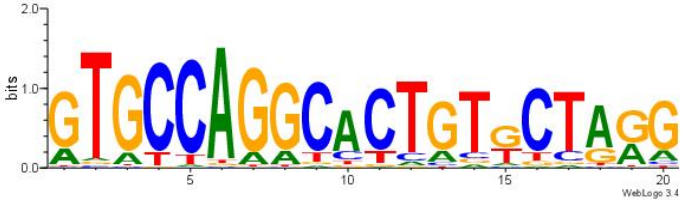

Reverse complement motif Consensus sequence: CMTAGYACAGTGCCTGGCAC

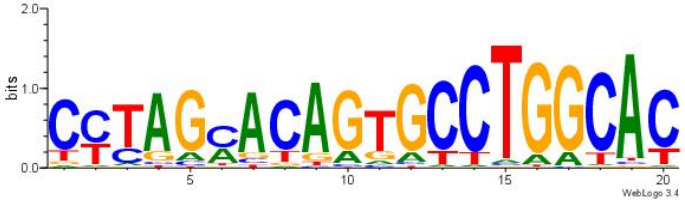

Dataset #: 1
Motif ID: 105
Motif name: Motif 105
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.115688

Alignment:
GGAGGTGTGGAGGGAGAGGC
-----CAAGGTCTGATTGTW

Original motif Consensus sequence: GCCTCTCCCTCCACACCTCC

Reverse complement motif Consensus sequence: GGAGGTGTGGAGGGAGAGGC

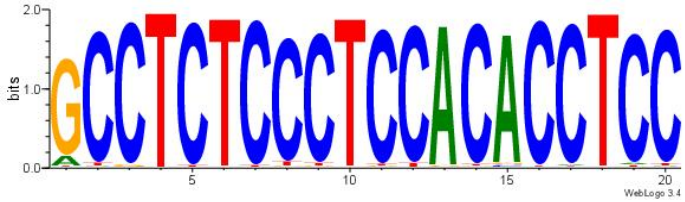

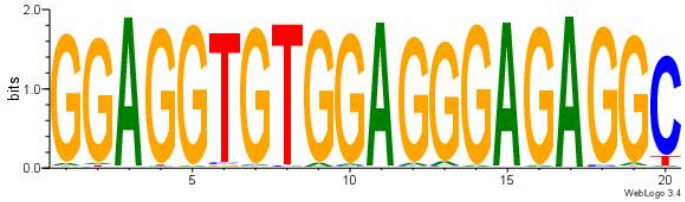

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.115836

Alignment:

```
GCAAAKGACATGATYTCATT
---CAAGGTCTGATTGTW--
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

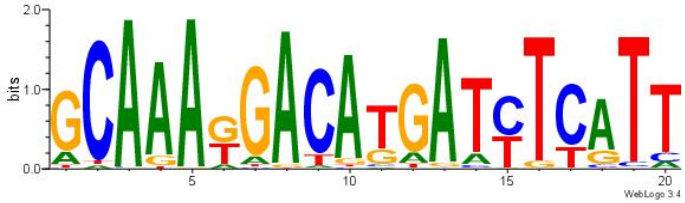

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

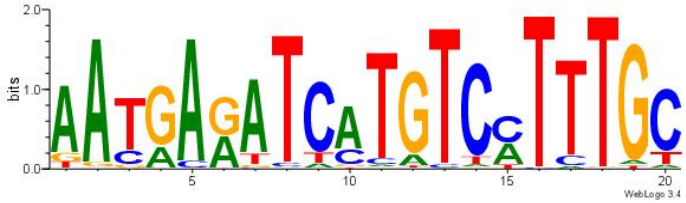

Dataset #: 1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.115882

Alignment:

```
CCCACGCCCACCCGGAACT
WACAATCAGACCTTG----
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

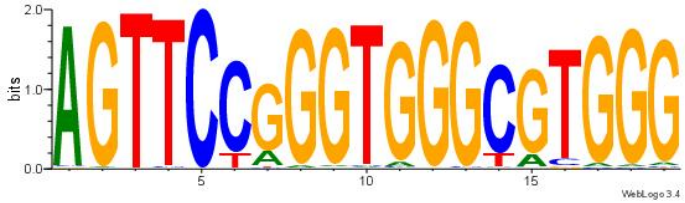

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

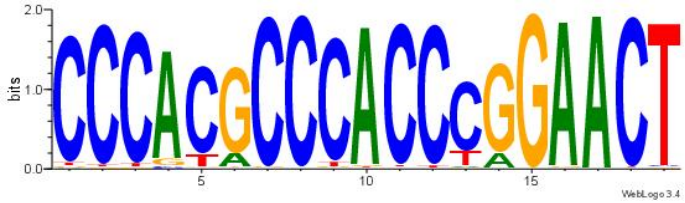

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15

Similarity score: 0.115983

Alignment:
CAGTCTGTGTCTTTTAATT
----CAAGGTCTGATTGTW

Original motif Consensus sequence: AATTAAAAGACACAGACTG

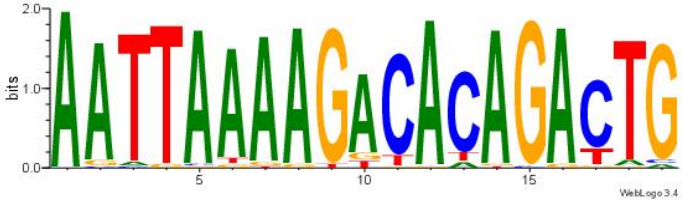

Reverse complement motif Consensus sequence:
CAGTCTGTGTCTTTTAATT

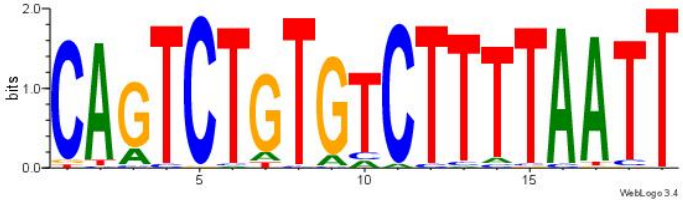

Dataset #: 1
Motif ID: 231
Motif name: Motif 231
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 15
Similarity score: 0.115998

Alignment:
ACAAGGCAAGTCCCTTCY
-CAAGGTCTGATTGTW--

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

Reverse complement motif Consensus sequence:
MGAAGGGACTTGCCTTGT

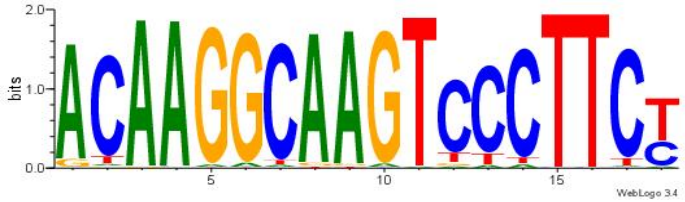

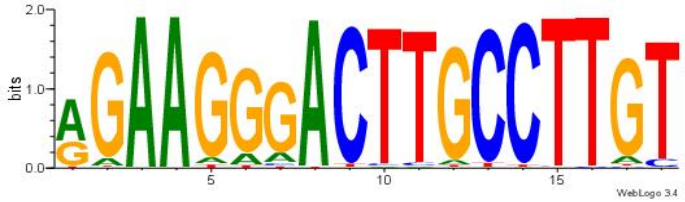

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.11695

Alignment:

```
GCTCCACCCAGTTCGAGCTT
--WACAATCAGACCTTG---
```

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

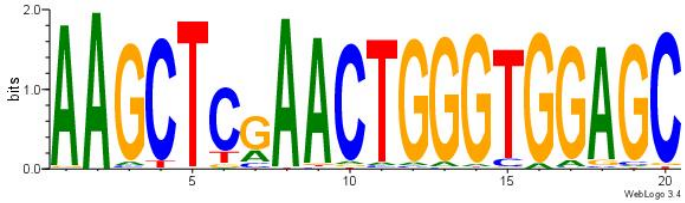

Reverse complement motif Consensus sequence: GCTCCACCCAGTTCGAGCTT

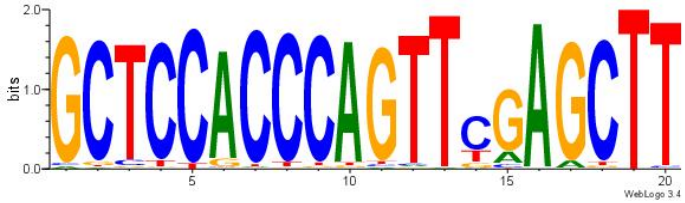

Dataset #:	1

Motif ID:	86
Motif name:	Motif 86
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.117403

Alignment:

```
AGTAGGTGCTCARTAAATRB
--CAAGGTCTGATTGTW---
```

Original motif Consensus sequence: AGTAGGTGCTCARTAAATRB

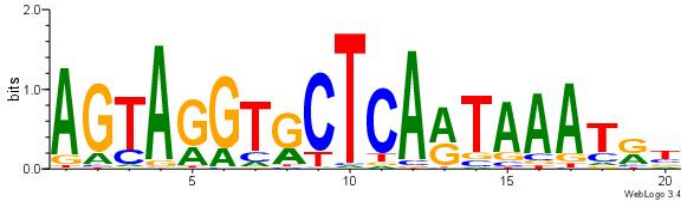

Reverse complement motif Consensus sequence: VMATTTAKTGAGCACCTACT

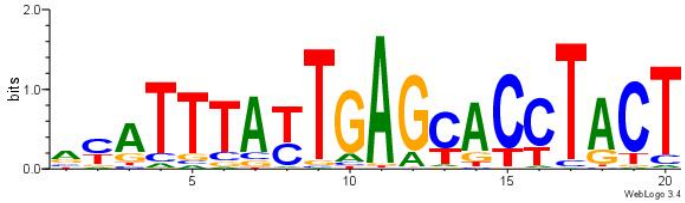

Dataset #:	1
Motif ID:	176
Motif name:	Motif 176
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.11796

Alignment:
AACAACASACACTGGGGCCT
WACAATCAGACCTTG-----

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

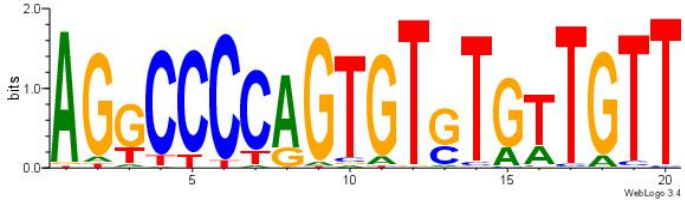

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

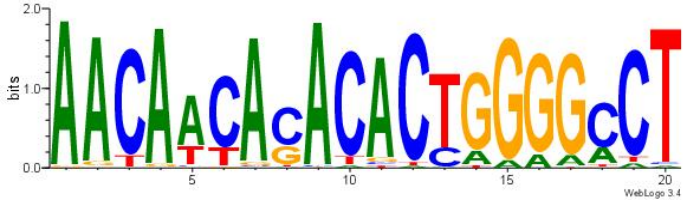

Dataset #: 1
Motif ID: 69
Motif name: Motif 69
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.118237

Alignment:
GTAGCTGGGAYTACA
CAAGGTCTGATTGTW

Original motif Consensus sequence: GTAGCTGGGAYTACA

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

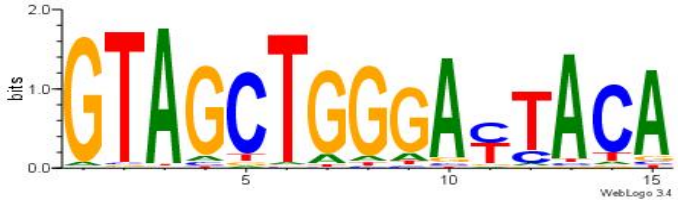

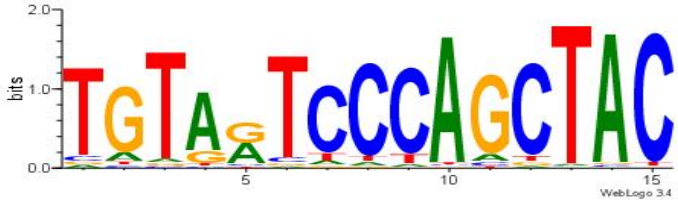

Dataset #:	1
Motif ID:	63
Motif name:	Motif 63
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	15
Similarity score:	0.118373

Alignment:

```
AGTGAGAACATRYRRTRTTT
-----CAAGGTCTGATTGTW
```

Original motif Consensus sequence: AGTGAGAACATRYRRTRTTT

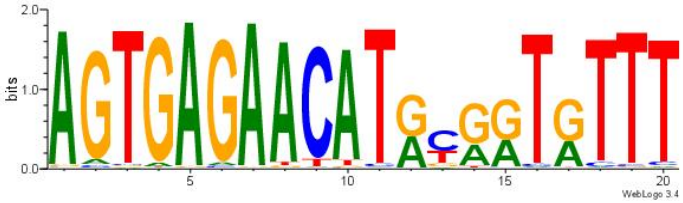

Reverse complement motif Consensus sequence: AAAMAMMKMATGTTCTCACT

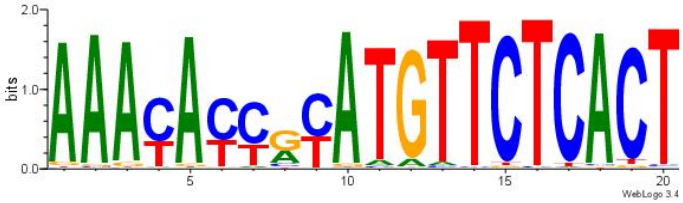

Dataset #: 1

Motif ID:	183
Motif name:	Motif 183
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.119012

Alignment:

```
GCCRGCCCTGCYGGCC
-CAAGGTCTGATTGTW
```

Original motif Consensus sequence: GCCRGCCCTGCYGGCC

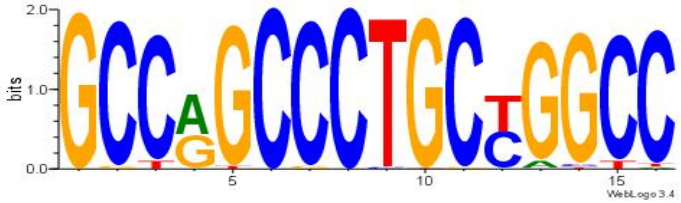

Reverse complement motif Consensus sequence: GGCCMGCAGGGCKGGC

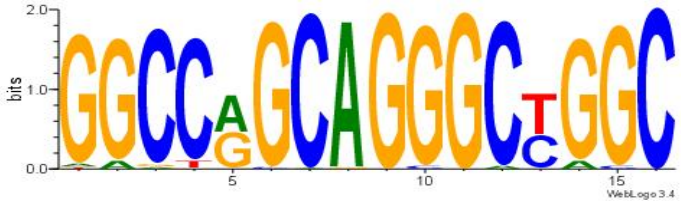

Dataset #:	1
Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15

Similarity score: 0.119037

Alignment:
GTTGTGAGGATTAAATGAG
CAAGGTCTGATTGTW----

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

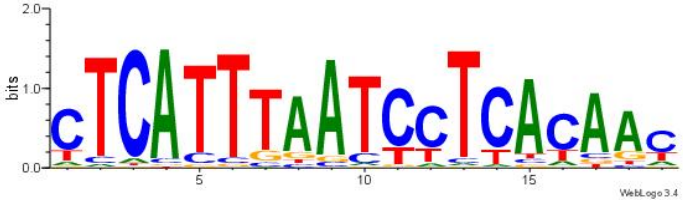

Reverse complement motif Consensus sequence:
GTTGTGAGGATTAAATGAG

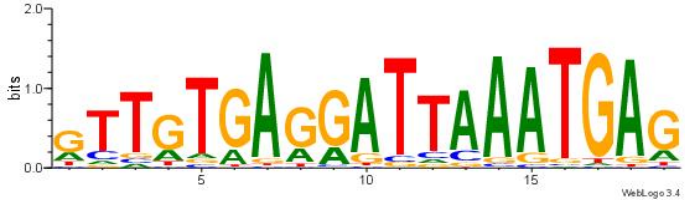

Dataset #: 1
Motif ID: 191
Motif name: Motif 191
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.119148

Alignment:
AAAGTGCCGAGAKTGCAGC
CAAGGTCTGATTGTW----

Original motif Consensus sequence: AAAGTGCCGAGAKTGCAGC

Reverse complement motif Consensus sequence:
GCTGCARTCTCGGCACTTT

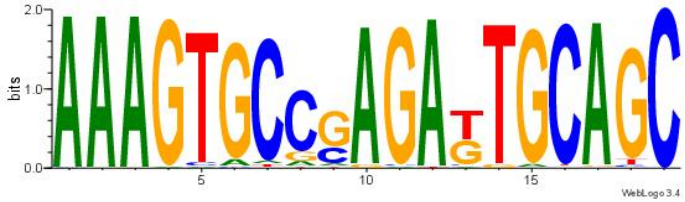

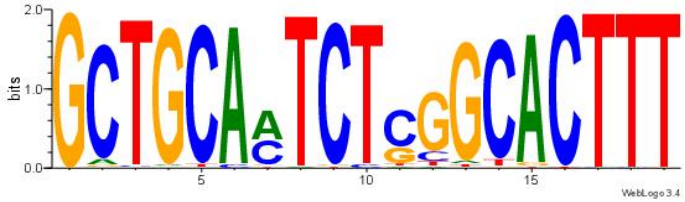

Dataset #:	1
Motif ID:	330
Motif name:	Motif 330
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.119418

Alignment:

```
AAAACCAGCAAGTTTTTAT
--WACAATCAGACCTTG--
```

Original motif Consensus sequence: AAAACCAGCAAGTTTTTAT

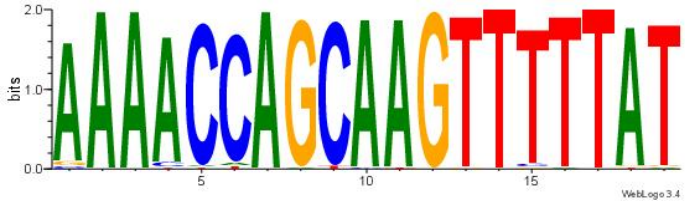

Reverse complement motif Consensus sequence: ATAAAAACTTGCTGGTTTT

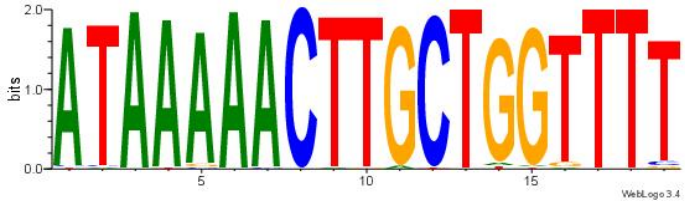

Dataset #: 1

Motif ID:	56
Motif name:	Motif 56
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.119719

Alignment:

```
GCCKGGMKCMGTGGCTCAKG
----CAAGGTCTGATTGTW-
```

Original motif Consensus sequence: CRTGAGCCACYGYRCCYGGC

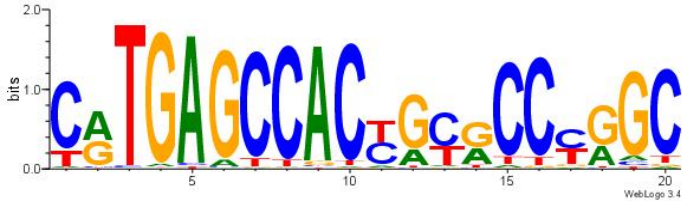

Reverse complement motif Consensus sequence: GCCKGGMKCMGTGGCTCAKG

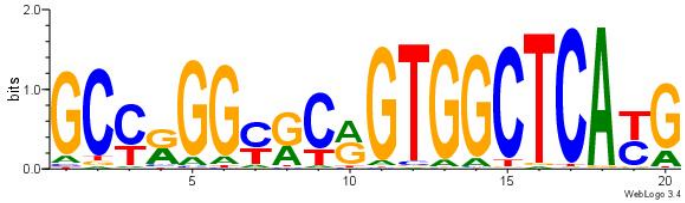

Dataset #:	1
Motif ID:	66
Motif name:	Motif 66
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15

Similarity score: 0.119974

Alignment:
ACACACAYACACACACACA
-WACAATCAGACCTTG---

Original motif Consensus sequence: ACACACAYACACACACACA

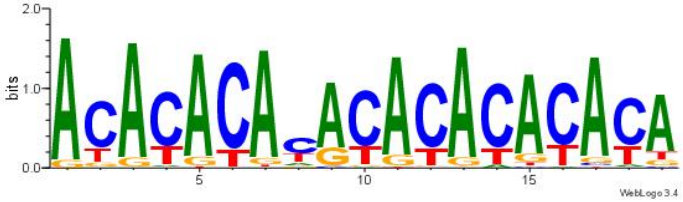

Reverse complement motif Consensus sequence:
TGTGTGTGTGTKTGTGTGT

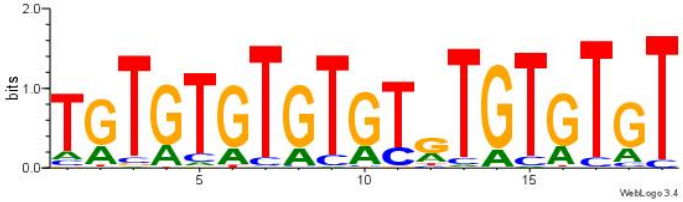

Dataset #: 1
Motif ID: 17
Motif name: Motif 17
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 15
Similarity score: 0.120235

Alignment:
AGACAGTGGGYGCAGGHCA
---WACAATCAGACCTTG-

Original motif Consensus sequence: AGACAGTGGGYGCAGGHCA

Reverse complement motif Consensus sequence:
TGHCCTGCKCCCACTGTCT

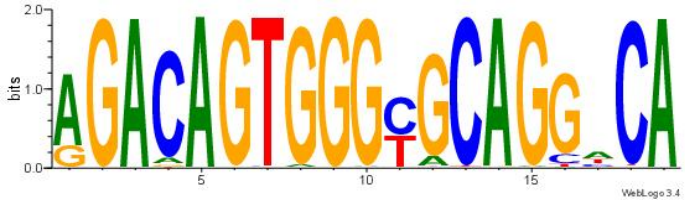

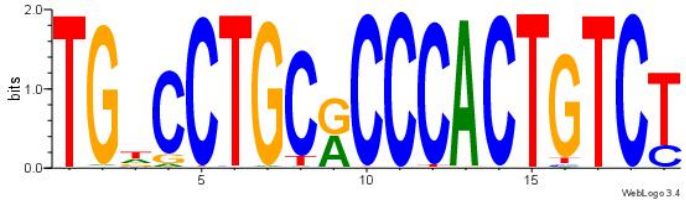

Dataset #:	1
Motif ID:	145
Motif name:	Motif 145
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.121248

Alignment:

```
GCCAGTCACAAAARGACAMA
-----WACAATCAGACCTTG
```

Original motif Consensus sequence: GCCAGTCACAAAARGACAMA

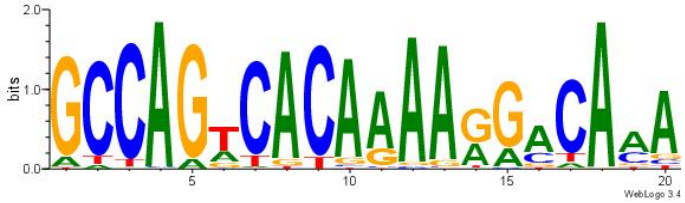

Reverse complement motif Consensus sequence: TYTGTCMTTTTGTGACTGGC

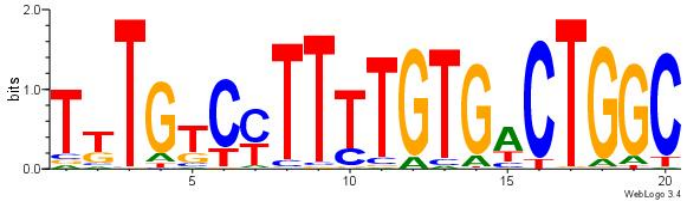

Dataset #: 1

Motif ID:	29
Motif name:	Motif 29
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.121626

Alignment:

```
CTGGGCRACAGAGYRAGACY
---WACAATCAGACCTTG--
```

Original motif Consensus sequence: CTGGGCRACAGAGYRAGACY

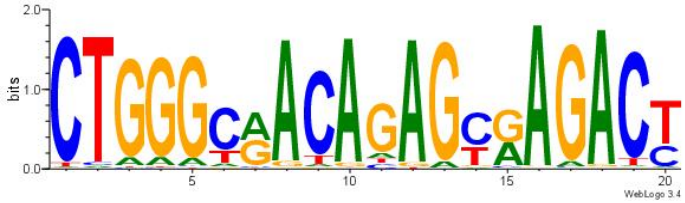

Reverse complement motif Consensus sequence: MGTCTMKCTCTGTKGCCCAG

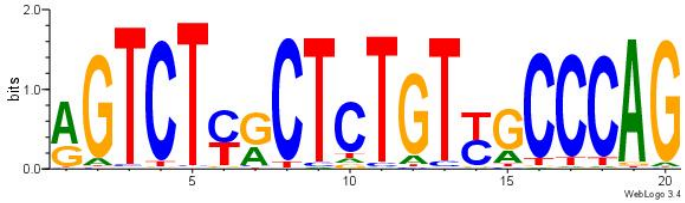

Dataset #:	1
Motif ID:	27
Motif name:	Motif 27
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15

Similarity score: 0.121664

Alignment:
CGCCCCGTCTGGGAAGTG
-CAAGGTCTGATTGTW--

Original motif Consensus sequence: CACTTCCCAGACGGGGCG

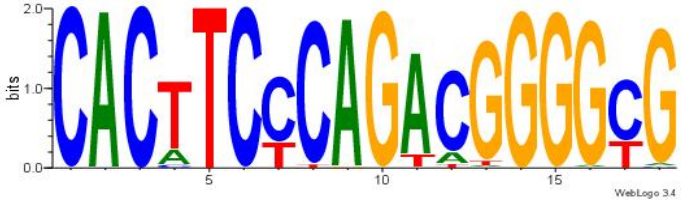

Reverse complement motif Consensus sequence: CGCCCCGTCTGGGAAGTG

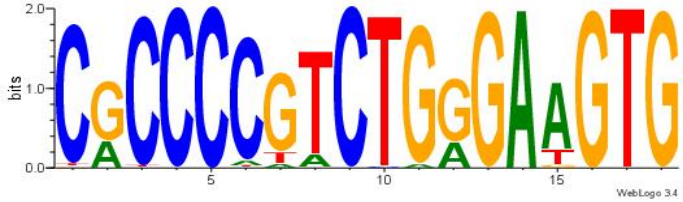

Dataset #: 1
Motif ID: 58
Motif name: Motif 58
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.121824

Alignment:
GAAHCAACCKAAKTGTCCAT
-WACAATCAGACCTTG----

Original motif Consensus sequence: ATGGACAYTTRGGTTGHTTC

Reverse complement motif Consensus sequence: GAAHCAACCKAAKTGTCCAT

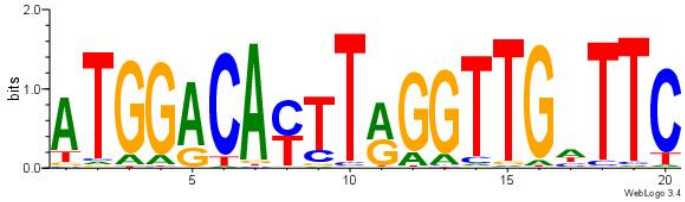

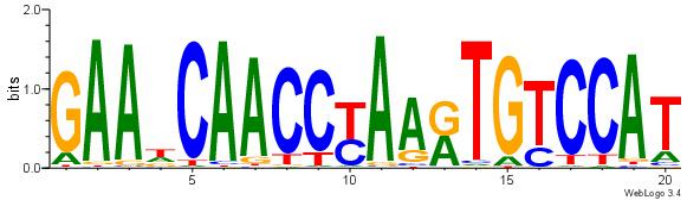

Dataset #:	1
Motif ID:	160
Motif name:	Motif 160
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.121889

Alignment:

```
TACCTGAGACTGGGTAATTT
--CAAGGTCTGATTGTW---
```

Original motif Consensus sequence: AAATTACCCAGTCTCAGGTA

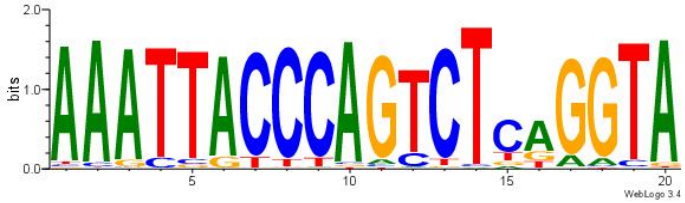

Reverse complement motif Consensus sequence: TACCTGAGACTGGGTAATTT

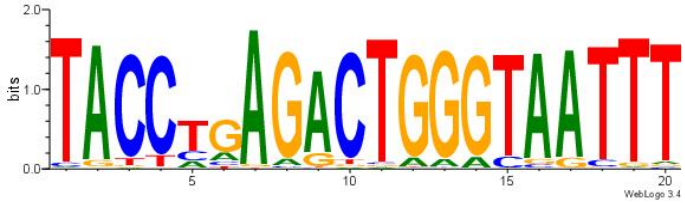

Dataset #: 1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.1223

Alignment:

```
ATCATTCTTATGCCTTTG
--WACAATCAGACCTTG-
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

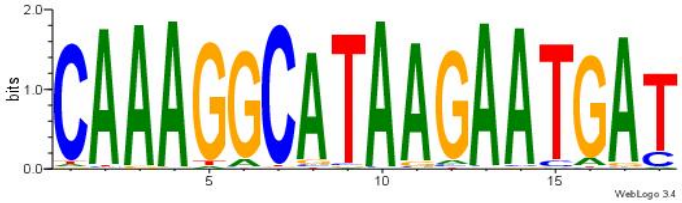

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

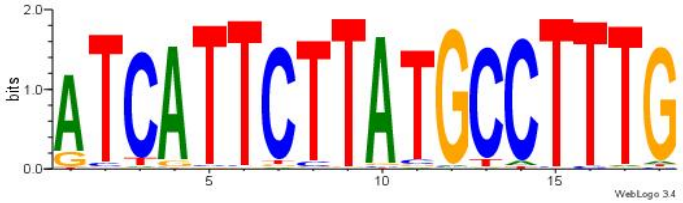

Dataset #: 1 Motif ID: 364 Motif name: Motif 364

Original motif Consensus sequence: GGATTTGAACY

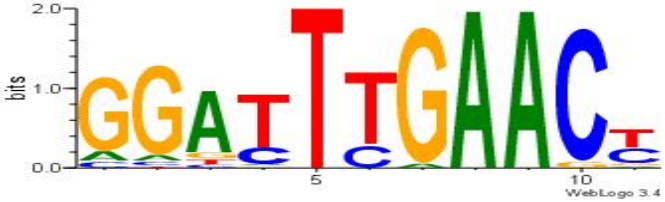

Reverse complement motif Consensus sequence: MGTTCAAATCC

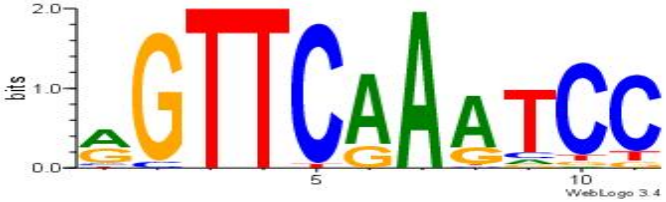

Best Matches for Motif ID 364 (Highest to Lowest)

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	11
Similarity score:	0.0565307

Alignment:

```
TGCTGGAGGTCCACTCCAGA
------MGTTCAAATCC---
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

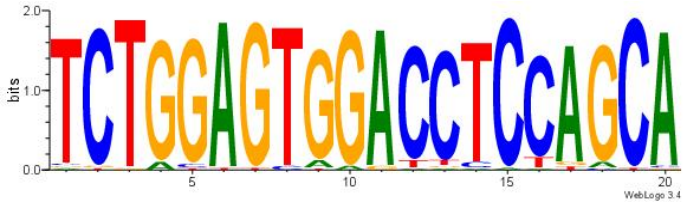

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

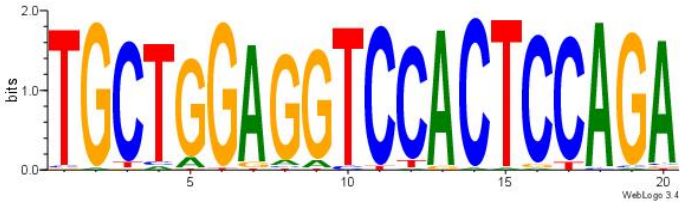

Dataset #:	1
Motif ID:	214
Motif name:	Motif 214
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0725975

Alignment:

```
GGTTTTCCATTCCTGAG
--MGTTCAAATCC----
```

Original motif Consensus sequence: CTCAGGAATGGAAAACC

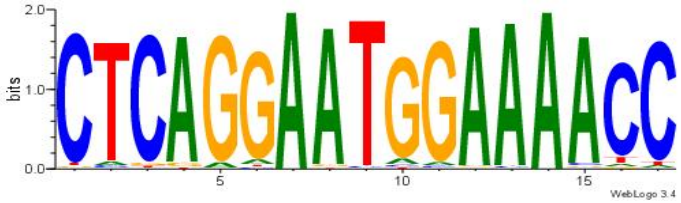

Reverse complement motif Consensus sequence: GGTTTTCCATTCCTGAG

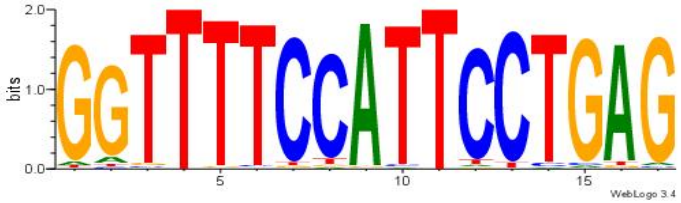

Dataset #:	1
Motif ID:	322
Motif name:	Motif 322
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0730291

Alignment:

```
GCAWSTGCAAAGGCCCT
---MGTTCAAATCC---
```

Original motif Consensus sequence: AGGGCCTTTGCASWTGC

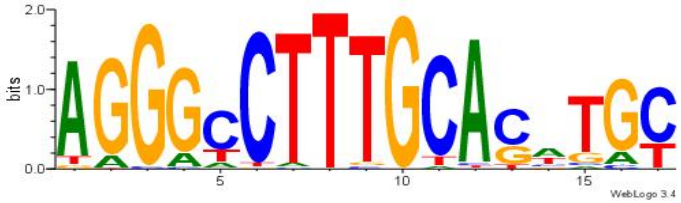

Reverse complement motif Consensus sequence: GCAWSTGCAAAGGCCCT

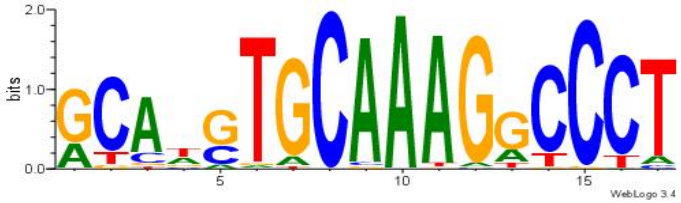

Dataset #:	1
Motif ID:	106
Motif name:	Motif 106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0730743

Alignment:

```
GGGATTGTAAATACACCAAT
--------GGATTTGAACY-
```

Original motif Consensus sequence: ATTGGTGTATTTACAATCCC

Reverse complement motif Consensus sequence: GGGATTGTAAATACACCAAT

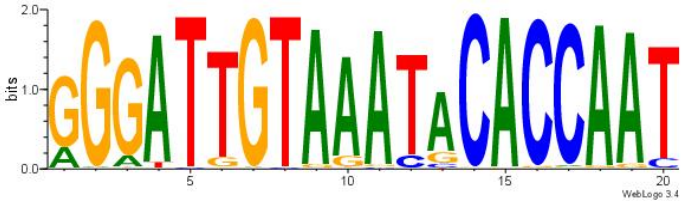

Dataset #:	1
Motif ID:	23
Motif name:	Motif 23
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0767707

Alignment:

```
GGTTCATCTCACTAGGGAGT
---------MGTTCAAATCC
```

Original motif Consensus sequence: GGTTCATCTCACTAGGGAGT

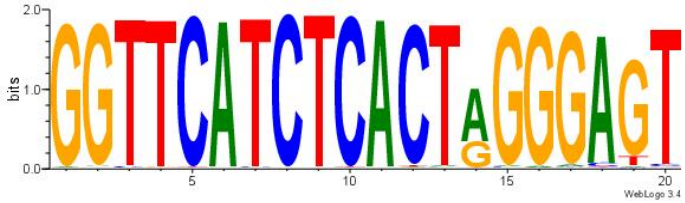

Reverse complement motif Consensus sequence: ACTCCCTAGTGAGATGAACC

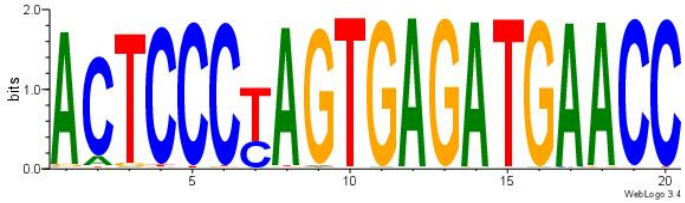

Dataset #:	1
Motif ID:	262
Motif name:	Motif 262
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	6

Number of overlap: 11
Similarity score: 0.0777302

Alignment:
GACAGGAGATTAACACTGAG
-----GGATTTGAACY----

Original motif Consensus sequence: CTCAGTGTTAATCTCCTGTC

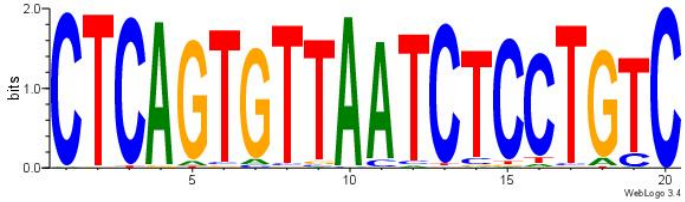

Reverse complement motif Consensus sequence: GACAGGAGATTAACACTGAG

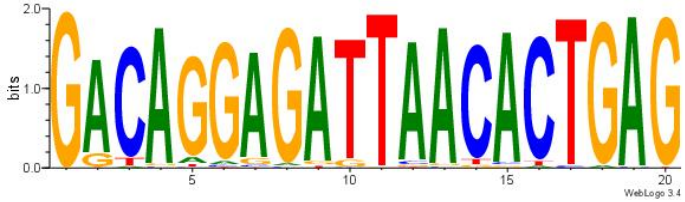

Dataset #: 1
Motif ID: 44
Motif name: Motif 44
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 11
Similarity score: 0.0781254

Alignment:
AATCGCTTGAACC
--GGATTTGAACY

Original motif Consensus sequence: AATCGCTTGAACC

Reverse complement motif Consensus sequence: GGTTCAAGCGATT

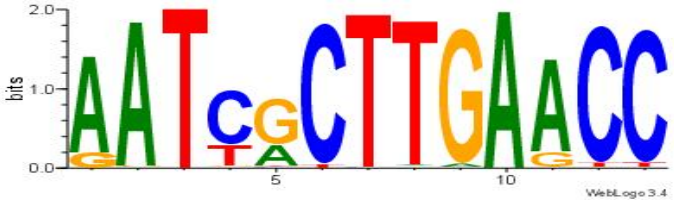

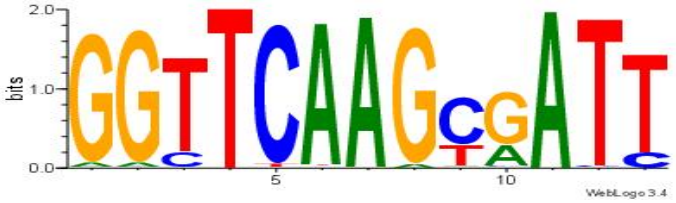

Dataset #:	1
Motif ID:	319
Motif name:	Motif 319
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0783599

Alignment:

```
TAGTTTTTAACAA
-GGATTTGAACY-
```

Original motif Consensus sequence: TAGTTTTTAACAA

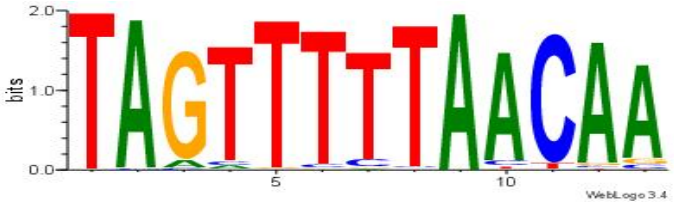

Reverse complement motif Consensus sequence: TTGTTAAAAACTA

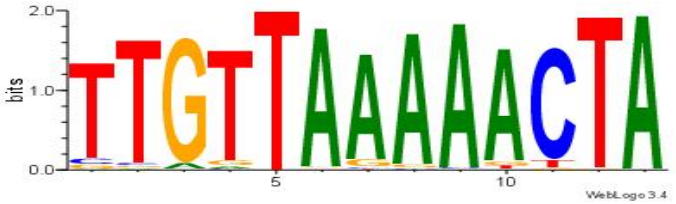

Dataset #:	1
Motif ID:	326

Motif name:	Motif 326
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	11
Similarity score:	0.0800123

Alignment:

```
CCTTTGACTCCATGTC
MGTTCAAATCC-----
```

Original motif Consensus sequence: GACATGGAGTCAAAGG

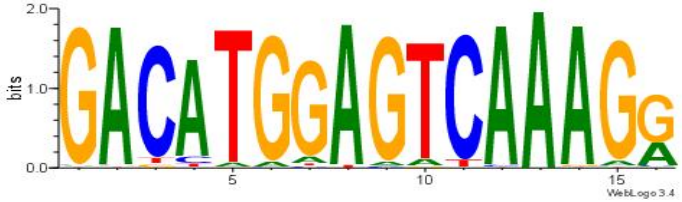

Reverse complement motif Consensus sequence: CCTTTGACTCCATGTC

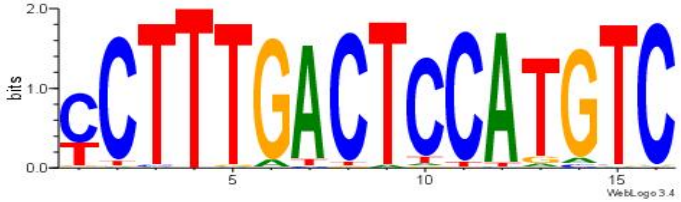

Dataset #:	1
Motif ID:	119
Motif name:	Motif 119
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0802503

Alignment:
KKCACCTTGATCTTGGACTT
-GGATTTGAACY--------

Original motif Consensus sequence: AAGTCCAAGATCAAGGTGYY

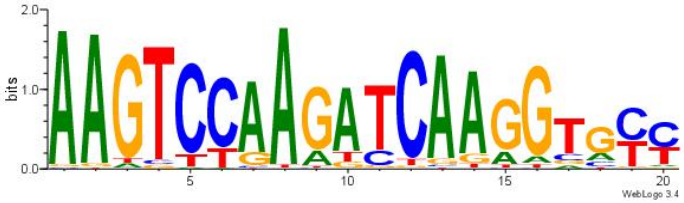

Reverse complement motif Consensus sequence:
KKCACCTTGATCTTGGACTT

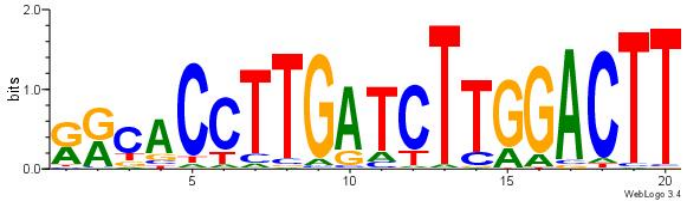

Dataset #:	1
Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0807708

Alignment:
TCAGGAGTGAAGCTGC
--GGATTTGAACY---

Original motif Consensus sequence: GCAGCTTCACTCCTGA

Reverse complement motif Consensus sequence:
TCAGGAGTGAAGCTGC

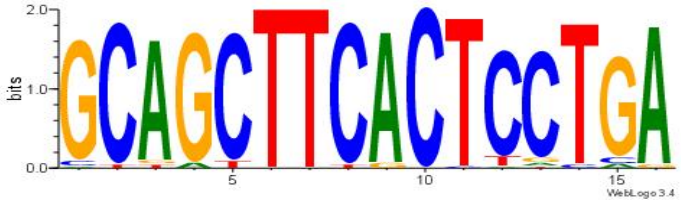

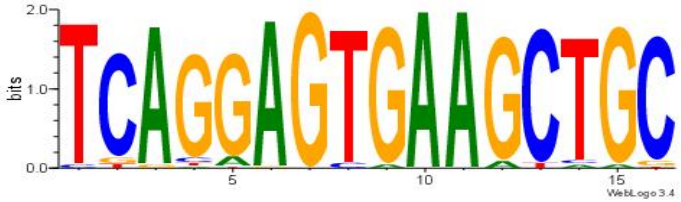

Dataset #:	1
Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	11
Similarity score:	0.0821633

Alignment:

```
GCAAAKGACATGATYTCATT
-----GGATTTGAACY----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

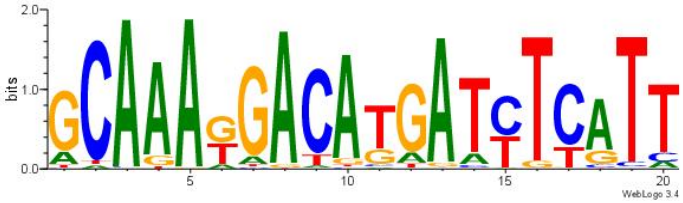

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

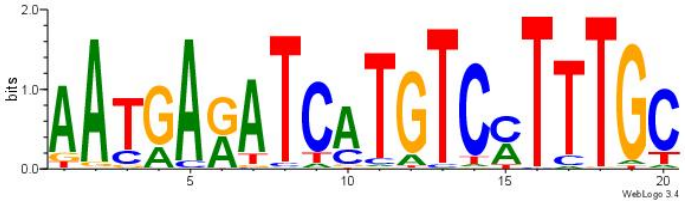

Dataset #:	1

Motif ID:	242
Motif name:	Motif 242
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0862394

Alignment:

```
CMCAGTTCACAATAGGGTT
---MGTTCAAATCC-----
```

Original motif Consensus sequence: AACCCTATTGTGAACTGYG

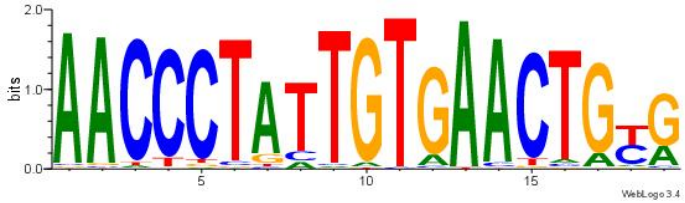

Reverse complement motif Consensus sequence: CMCAGTTCACAATAGGGTT

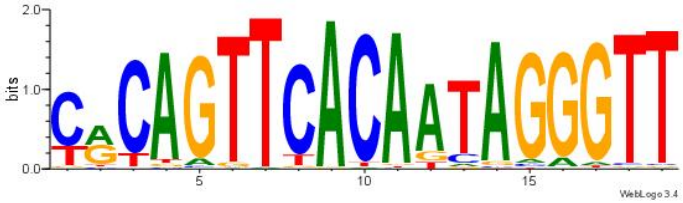

Dataset #:	1
Motif ID:	19
Motif name:	Motif 19
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	11

Similarity score: 0.0863776

Alignment:
CACCAGGAGATTATATCCCR
--MGTTCAAATCC-------

Original motif Consensus sequence: CACCAGGAGATTATATCCCR

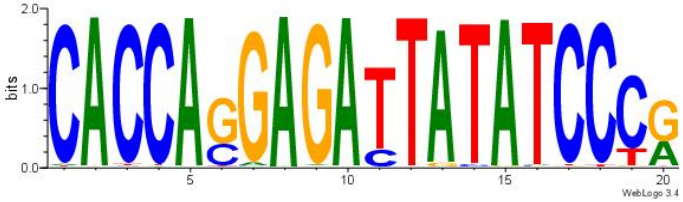

Reverse complement motif Consensus sequence: MGGGATATAATCTCCTGGTG

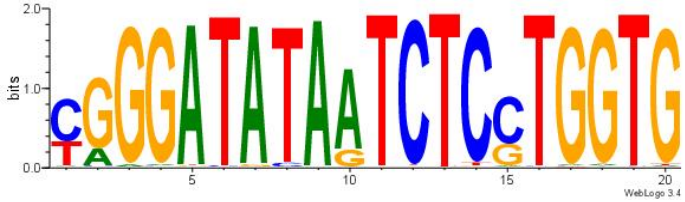

Dataset #: 1
Motif ID: 310
Motif name: Motif 310
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 9
Number of overlap: 11
Similarity score: 0.086599

Alignment:
GGATTTMKGACTTGCATGGG
--------GGATTTGAACY-

Original motif Consensus sequence: CCCATGCAAGTCYRAAATCC

Reverse complement motif Consensus sequence: GGATTTMKGACTTGCATGGG

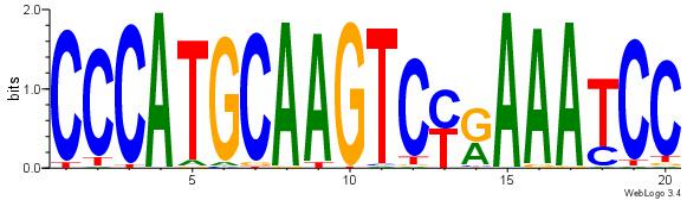

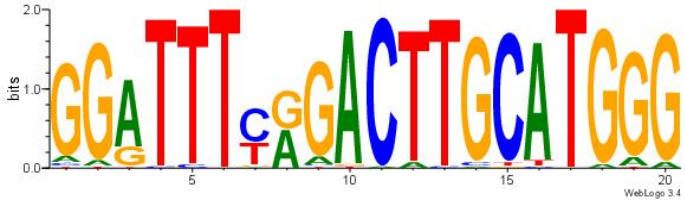

Dataset #:	1
Motif ID:	304
Motif name:	Motif 304
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.087025

Alignment:

```
AGTGTTTCCAAMCTGCT
---MGTTCAAATCC---
```

Original motif Consensus sequence: AGTGTTTCCAAMCTGCT

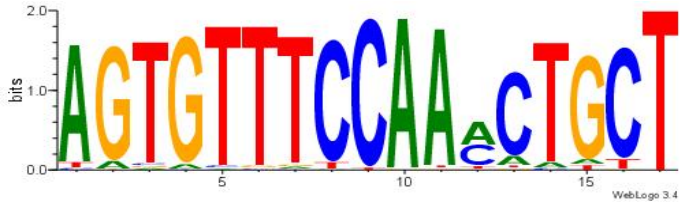

Reverse complement motif Consensus sequence: AGCAGYTTGGAAACACT

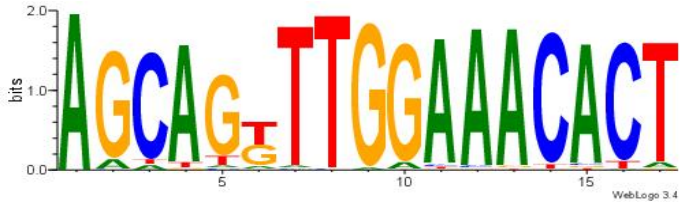

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0874147

Alignment:

```
CGGCGCTGMGCTCGATTTCT
--------MGTTCAAATCC-
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

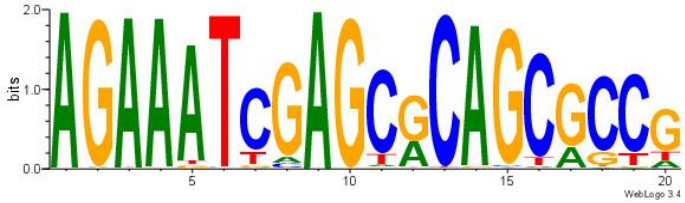

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

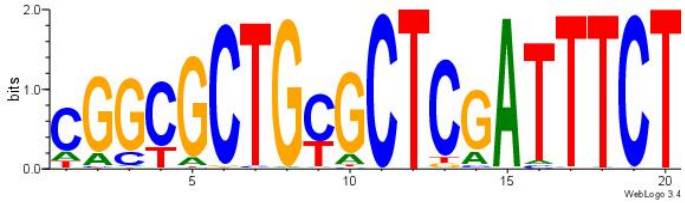

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	11

Similarity score: 0.0875648

Alignment:
ATCRCTTGAGSYCAGGAGKT
-GGATTTGAACY--------

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

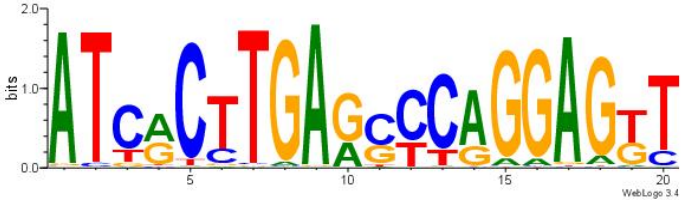

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

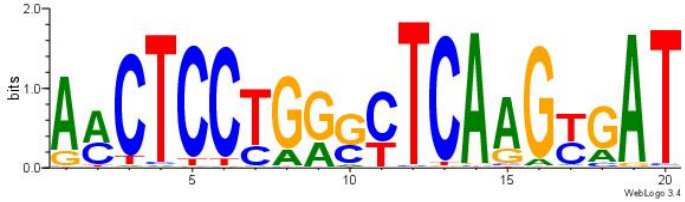

Dataset #: 1
Motif ID: 129
Motif name: Motif 129
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 11
Similarity score: 0.0875985

Alignment:
AAGAGGTTTAATTGRCTCA
----MGTTCAAATCC----

Original motif Consensus sequence: AAGAGGTTTAATTGRCTCA

Reverse complement motif Consensus sequence: TGAGKCAATTAAACCTCTT

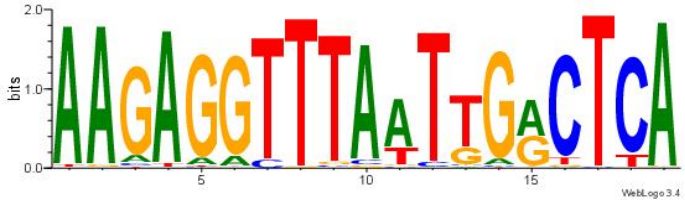

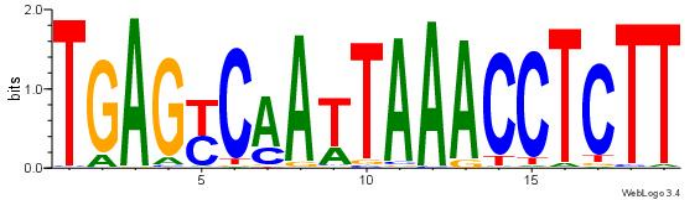

Dataset #:	1
Motif ID:	32
Motif name:	Motif 32
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0881863

Alignment:

```
ATGGTGAAACCC
MGTTCAAATCC-
```

Original motif Consensus sequence: ATGGTGAAACCC

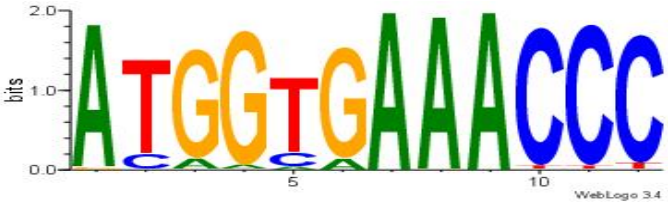

Reverse complement motif Consensus sequence: GGGTTTCACCAT

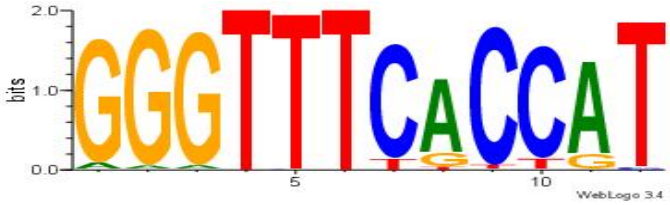

Dataset #:	1
Motif ID:	316

Motif name:	Motif 316
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0884271

Alignment:

```
ACGTCACTTCCG
MGTTCAAATCC-
```

Original motif Consensus sequence: CGGAAGTGACGT

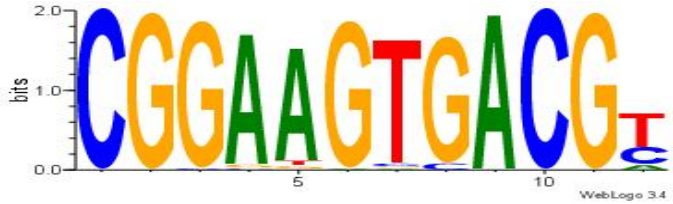

Reverse complement motif Consensus sequence: ACGTCACTTCCG

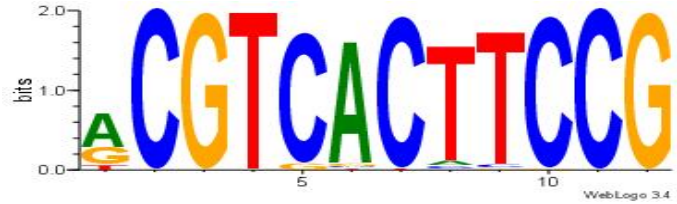

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0887158

Alignment:
AGGAACAGCTCCRGTCTAC
--MGTTCAAATCC------

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

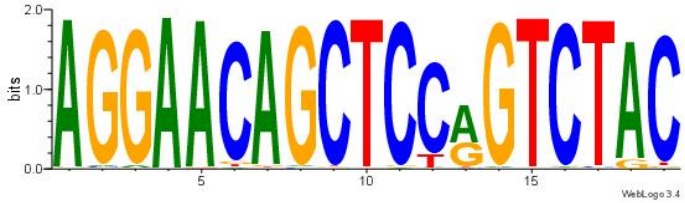

Reverse complement motif Consensus sequence:
GTAGACKGGAGCTGTTCCT

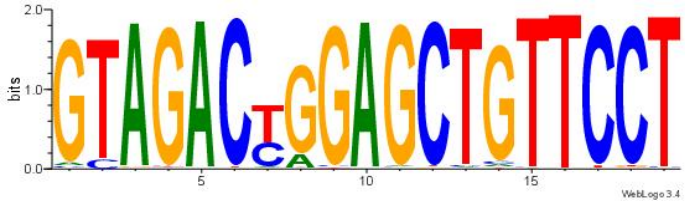

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	11
Similarity score:	0.0903353

Alignment:
AGTTGTAATTGGGAGACTT
--------MGTTCAAATCC

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

Reverse complement motif Consensus sequence:
AAGTCTCCCAATTACAACT

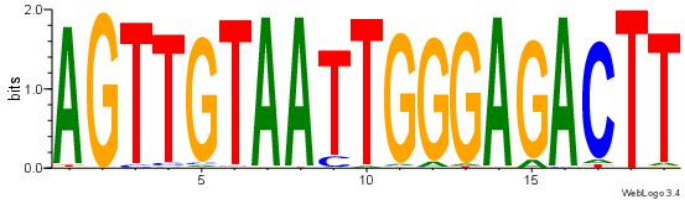

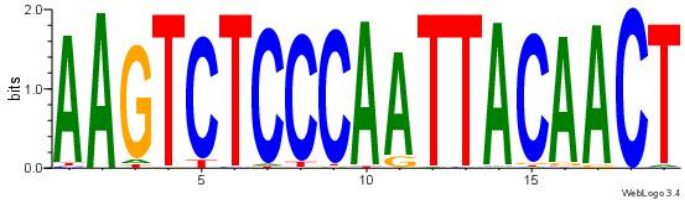

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	11
Similarity score:	0.0904061

Alignment:

```
CTGAGGACCTGAGGTCRTA
----GGATTTGAACY----
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

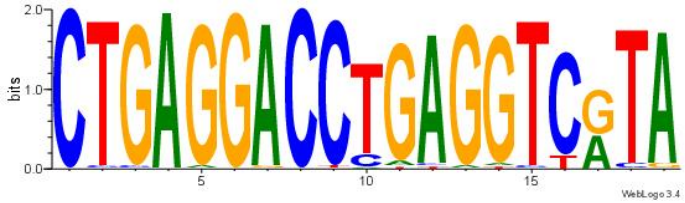

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

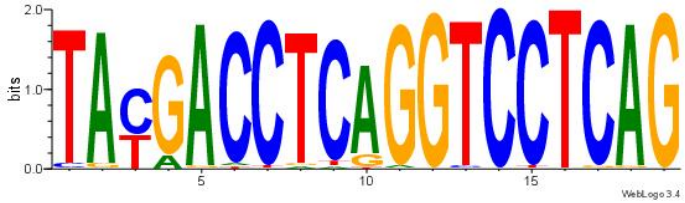

Dataset #:	1

Motif ID:	102
Motif name:	Motif 102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0905283

Alignment:

```
CTCATTTAATCCTCACAAC
-GGATTTGAACY-------
```

Original motif Consensus sequence: CTCATTTAATCCTCACAAC

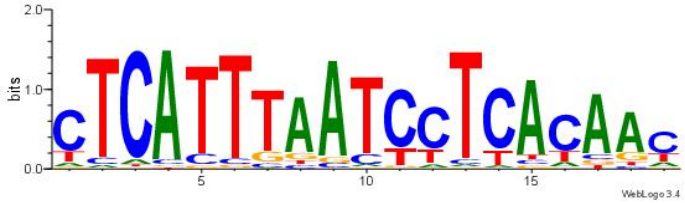

Reverse complement motif Consensus sequence: GTTGTGAGGATTAAATGAG

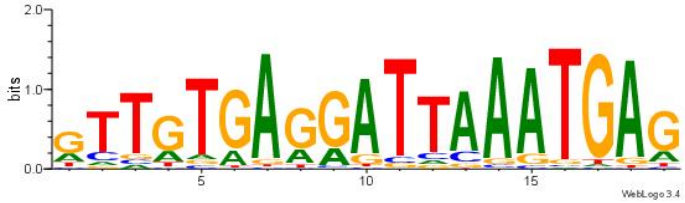

Dataset #:	1
Motif ID:	321
Motif name:	Motif 321
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	11

Similarity score: 0.0915197

Alignment:
AAGCTCGAACTGGGTGGAGC
GGATTTGAACY---------

Original motif Consensus sequence: AAGCTCGAACTGGGTGGAGC

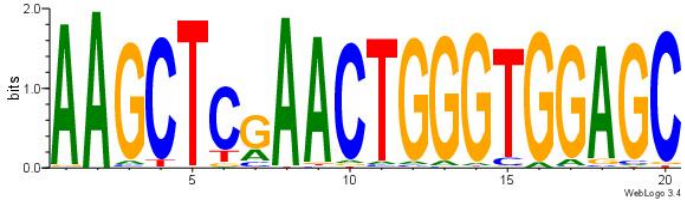

Reverse complement motif Consensus sequence:
GCTCCACCCAGTTCGAGCTT

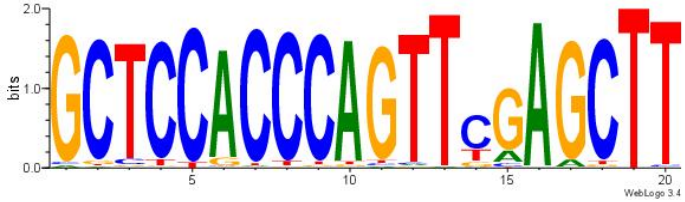

Dataset #: 1
Motif ID: 280
Motif name: Motif 280
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0916516

Alignment:
ACATCMTCTGAAATCTAGG
-----MGTTCAAATCC---

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

Reverse complement motif Consensus sequence:
ACATCMTCTGAAATCTAGG

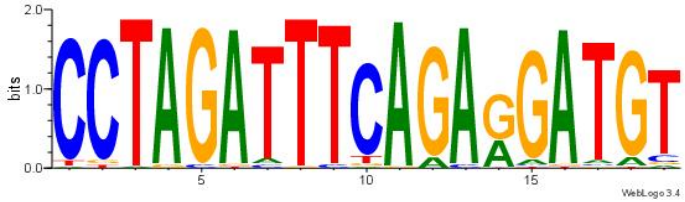

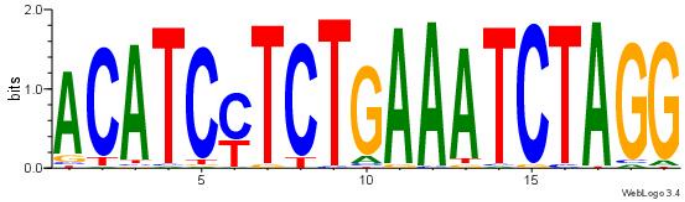

Dataset #:	1
Motif ID:	230
Motif name:	Motif 230
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0917748

Alignment:

```
TTTTCACATGCCTTTCT
MGTTCAAATCC------
```

Original motif Consensus sequence: AGAAAGGCATGTGAAAA

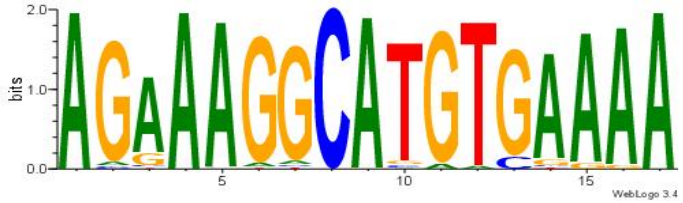

Reverse complement motif Consensus sequence: TTTTCACATGCCTTTCT

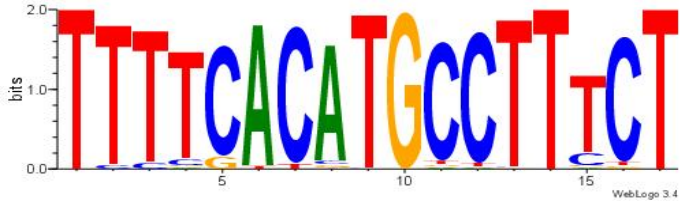

Dataset #: 1

Motif ID:	16
Motif name:	Motif 16
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	11
Similarity score:	0.0924595

Alignment:

```
GGGTCAGGGAGTTCCCTTTC
---------MGTTCAAATCC
```

Original motif Consensus sequence: GAAAGGGAACTCCCTGACCC

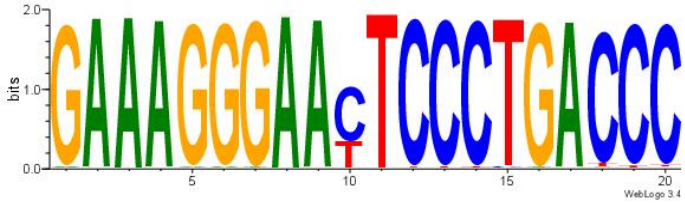

Reverse complement motif Consensus sequence: GGGTCAGGGAGTTCCCTTTC

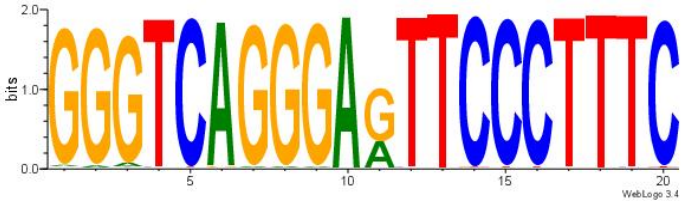

Dataset #:	1
Motif ID:	358
Motif name:	Motif 358
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	11

Similarity score: 0.0924914

Alignment:
GGGGTGATGGACG
GGATTTGAACY--

Original motif Consensus sequence: CGTCCATCACCCC

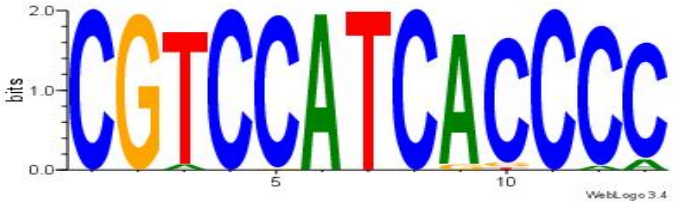

Reverse complement motif Consensus sequence: GGGGTGATGGACG

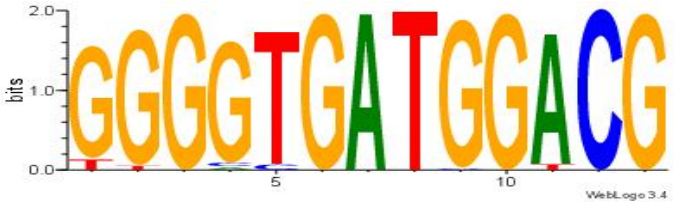

Dataset #:	1
Motif ID:	171
Motif name:	Motif 171
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	11
Similarity score:	0.0928175

Alignment:
ACTTTGGACTGTGGACTTTT
---GGATTTGAACY------

Original motif Consensus sequence: AAAAGTCCACAGTCCAAAGT

Reverse complement motif Consensus sequence:
ACTTTGGACTGTGGACTTTT

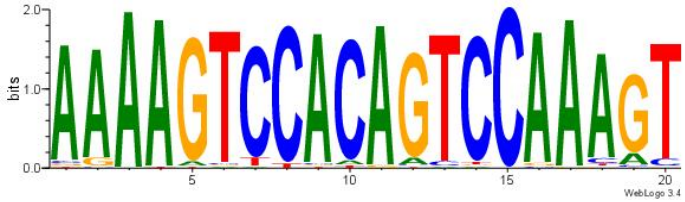

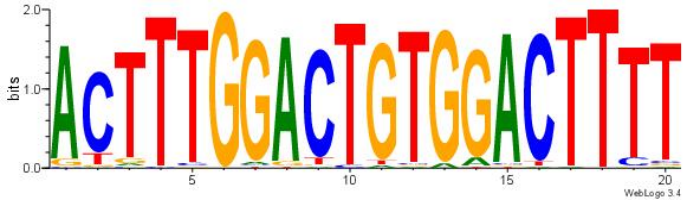

Dataset #:	1
Motif ID:	231
Motif name:	Motif 231
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0929107

Alignment:

```
ACAAGGCAAGTCCCTTCY
-----MGTTCAAATCC--
```

Original motif Consensus sequence: ACAAGGCAAGTCCCTTCY

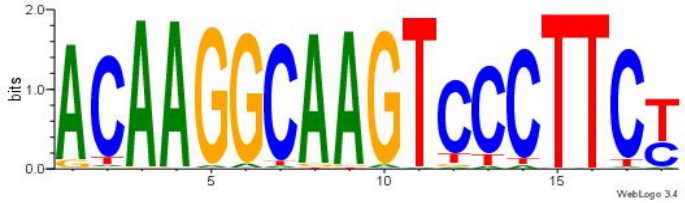

Reverse complement motif Consensus sequence: MGAAGGGACTTGCCTTGT

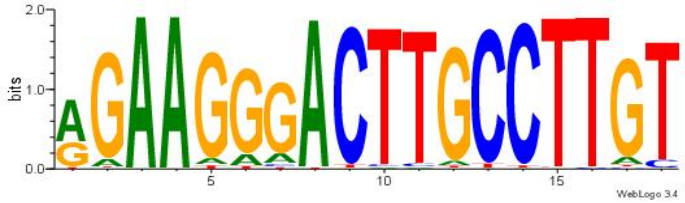

Dataset #:	1

Motif ID:	190
Motif name:	Motif 190
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.0929728

Alignment:

```
ATCATTCTTATGCCTTTG
--MGTTCAAATCC-----
```

Original motif Consensus sequence: CAAAGGCATAAGAATGAT

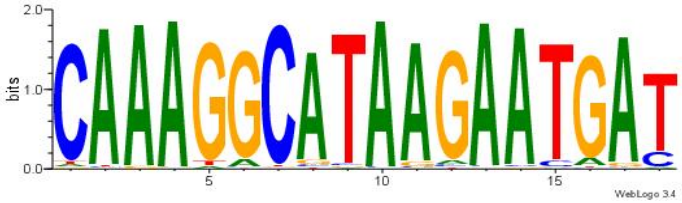

Reverse complement motif Consensus sequence: ATCATTCTTATGCCTTTG

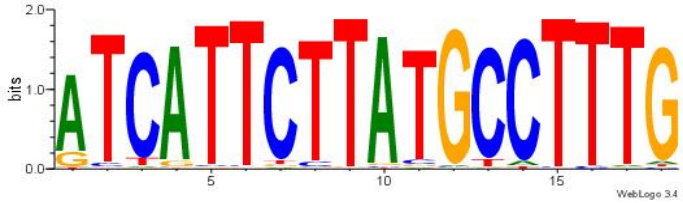

Dataset #:	1
Motif ID:	3
Motif name:	Motif 3
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0929885

Alignment:
TCKMGCCACTGCACTCCAGC
-MGTTCAAATCC--------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

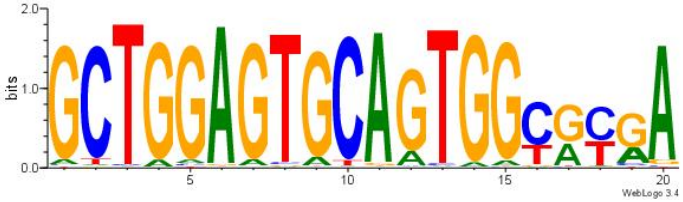

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

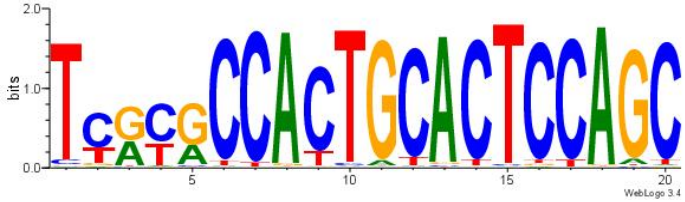

Dataset #: 1
Motif ID: 178
Motif name: Motif 178
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 6
Number of overlap: 11
Similarity score: 0.0931523

Alignment:
ATGTGGAGGTGGAAGACAGT
-----GGATTTGAACY----

Original motif Consensus sequence: ACTGTCTTCCACCTCCACAT

Reverse complement motif Consensus sequence:
ATGTGGAGGTGGAAGACAGT

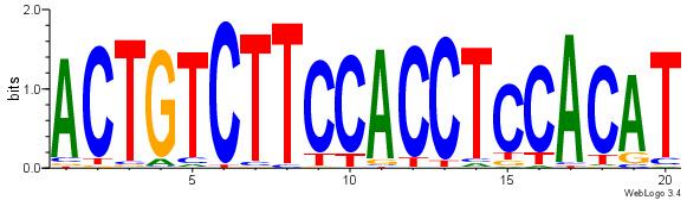

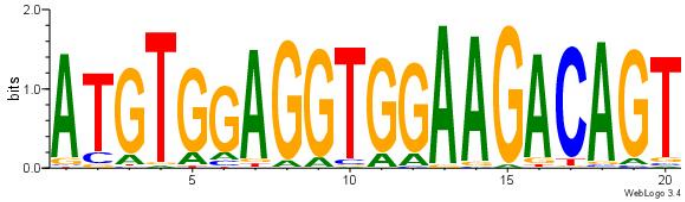

Dataset #:	1
Motif ID:	356
Motif name:	Motif 356
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	11
Similarity score:	0.0936381

Alignment:

```
CAGTCTGTGTCTTTTAATT
GGATTTGAACY--------
```

Original motif Consensus sequence: AATTAAAAGACACAGACTG

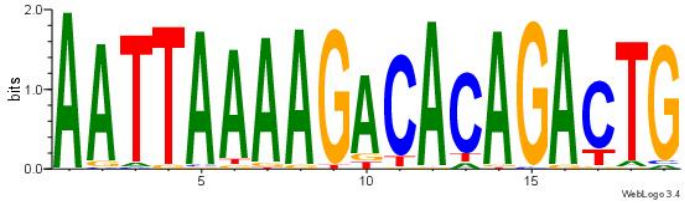

Reverse complement motif Consensus sequence: CAGTCTGTGTCTTTTAATT

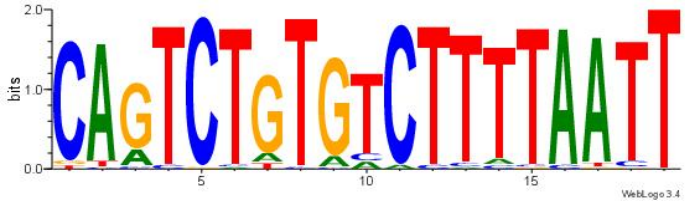

Dataset #: 1

Motif ID:	327
Motif name:	Motif 327
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.0943449

Alignment:

```
AGGAGGAAGTCAATTTC
MGTTCAAATCC------
```

Original motif Consensus sequence: AGGAGGAAGTCAATTTC

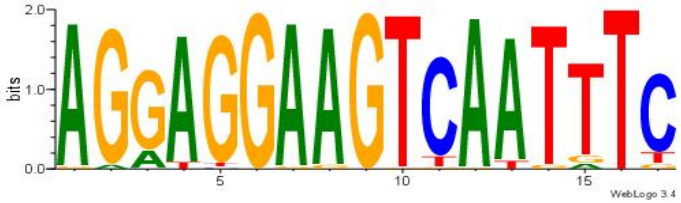

Reverse complement motif Consensus sequence: GAAATTGACTTCCTCCT

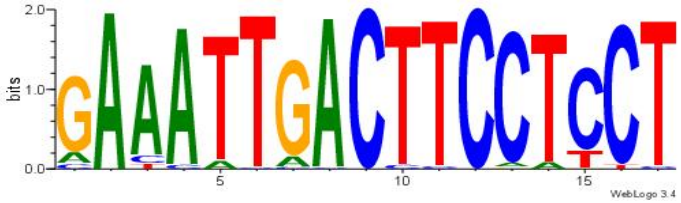

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.094751

Alignment:
MTCCTCCAGACCCCAGAATG
--MGTTCAAATCC-------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

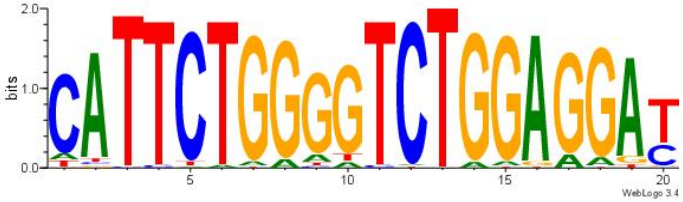

Reverse complement motif Consensus sequence:
MTCCTCCAGACCCCAGAATG

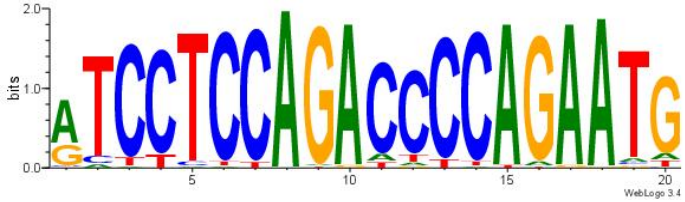

Dataset #: 1
Motif ID: 76
Motif name: Motif 76
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 7
Number of overlap: 11
Similarity score: 0.0956126

Alignment:
CMTAGYACAGTGCCTGGCAC
---MGTTCAAATCC------

Original motif Consensus sequence: GTGCCAGGCACTGTKCTARG

Reverse complement motif Consensus sequence:
CMTAGYACAGTGCCTGGCAC

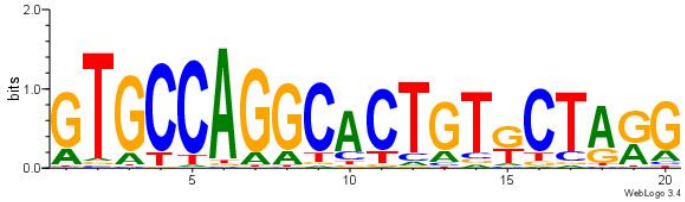

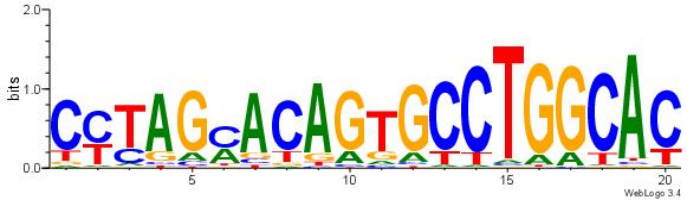

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	11
Similarity score:	0.0961646

Alignment:

```
GGGRSCACAGGAGCD
GGATTTGAACY----
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

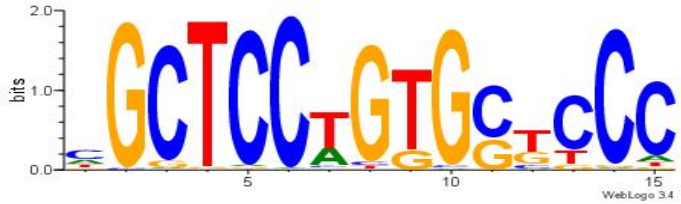

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1

Motif ID:	221
Motif name:	Motif 221
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0963463

Alignment:

```
GTGTCCCCTTCCTCCC
-MGTTCAAATCC----
```

Original motif Consensus sequence: GGGAGGAAGGGGACAC

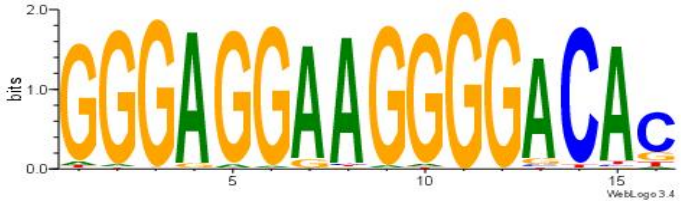

Reverse complement motif Consensus sequence: GTGTCCCCTTCCTCCC

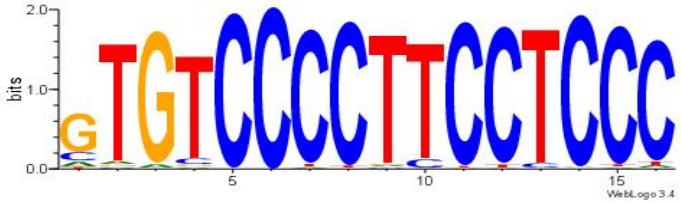

Dataset #:	1
Motif ID:	92
Motif name:	Motif 92
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	11

Similarity score: 0.0967378

Alignment:
GGGGGCTGACCCCCCCACC
-GGATTTGAACY-------

Original motif Consensus sequence: GGGGGCTGACCCCCCCACC

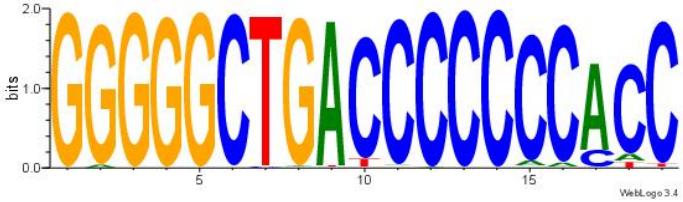

Reverse complement motif Consensus sequence: GGTGGGGGGGTCAGCCCCC

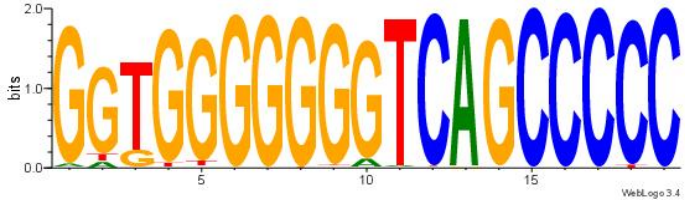

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 11
Similarity score: 0.0968332

Alignment:
GCGMGCGGGAACCGGGGCT
------GGATTTGAACY--

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

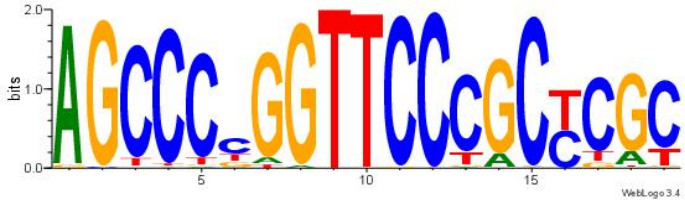

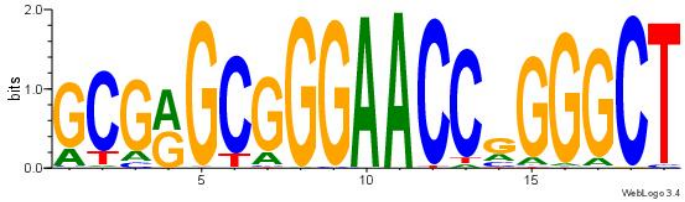

Dataset #:	1
Motif ID:	137
Motif name:	Motif 137
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0969612

Alignment:

```
TWTACCTATGTAACAAACCT
--------MGTTCAAATCC-
```

Original motif Consensus sequence: AGGTTTGTTACATAGGTAWA

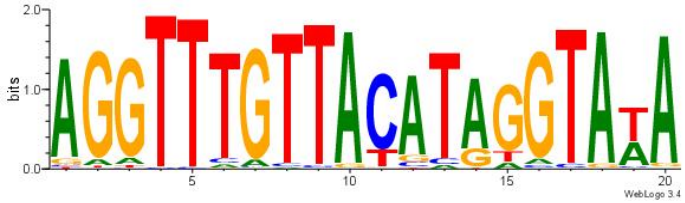

Reverse complement motif Consensus sequence: TWTACCTATGTAACAAACCT

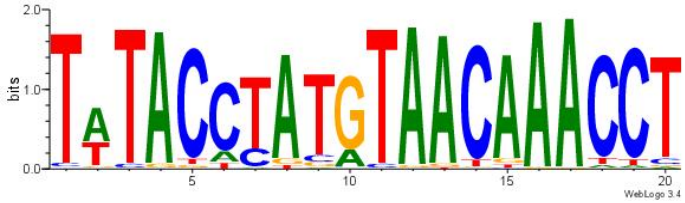

Dataset #: 1

Motif ID:	204
Motif name:	Motif 204
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	11
Similarity score:	0.0970661

Alignment:

```
GGAGTCTMKCTCT
--GGATTTGAACY
```

Original motif Consensus sequence: AGAGYRAGACTCC

Reverse complement motif Consensus sequence: GGAGTCTMKCTCT

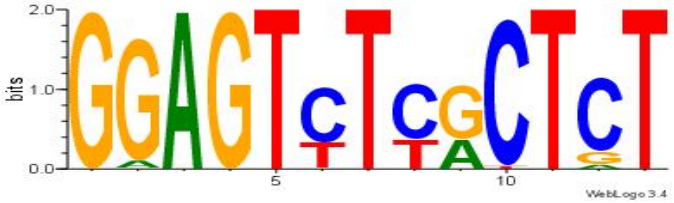

Dataset #:	1
Motif ID:	348
Motif name:	Motif 348
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	11
Similarity score:	0.097405

Alignment:
ATGGCCTATGACYGSTTTG
--GGATTTGAACY------

Original motif Consensus sequence: ATGGCCTATGACYGSTTTG

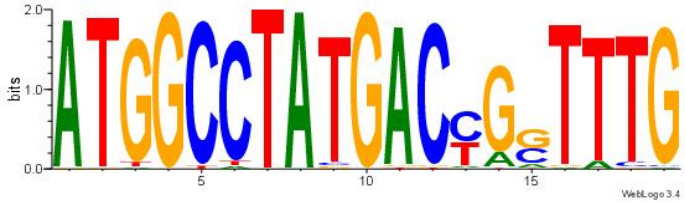

Reverse complement motif Consensus sequence:
CAAASCKGTCATAGGCCAT

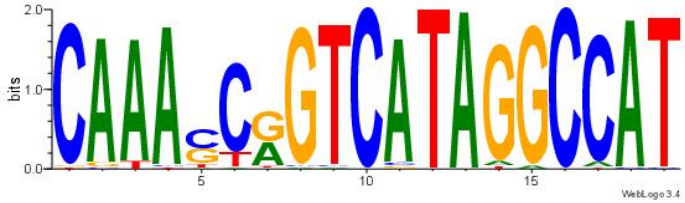

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0975651

Alignment:
GACTTCAAGAATGAAGCCG
-------MGTTCAAATCC-

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence:
CGGCTTCATTCTTGAAGTC

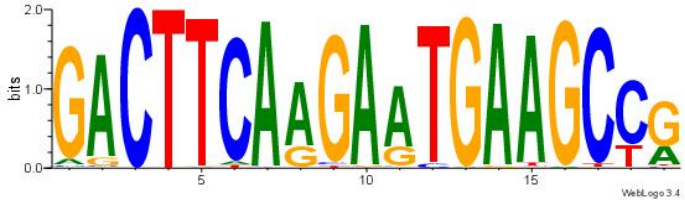

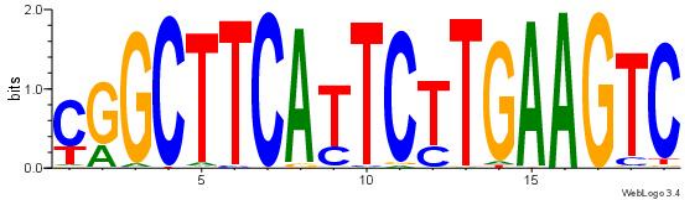

Dataset #: 1
Motif ID: 115
Motif name: Motif 115
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 11
Similarity score: 0.0975814

Alignment:
ATGATCCAGCAATYCCACTH
--------GGATTTGAACY-

Original motif Consensus sequence: ATGATCCAGCAATYCCACTH

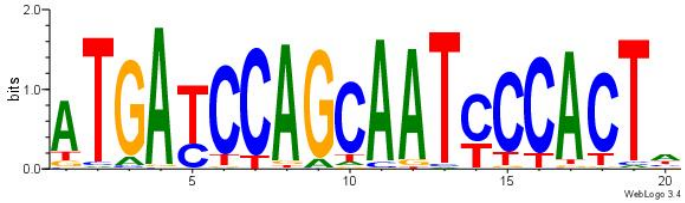

Reverse complement motif Consensus sequence:
HAGTGGKATTGCTGGATCAT

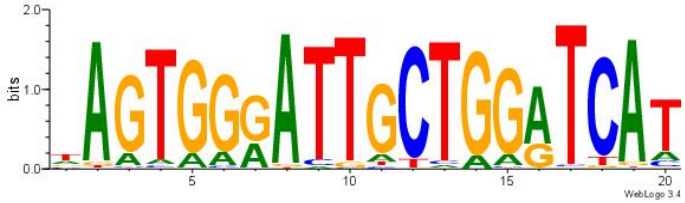

Dataset #: 1

Motif ID:	234
Motif name:	Motif 234
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0975861

Alignment:

```
AAGGAACAAACTCCRGACAC
-------MGTTCAAATCC--
```

Original motif Consensus sequence: AAGGAACAAACTCCRGACAC

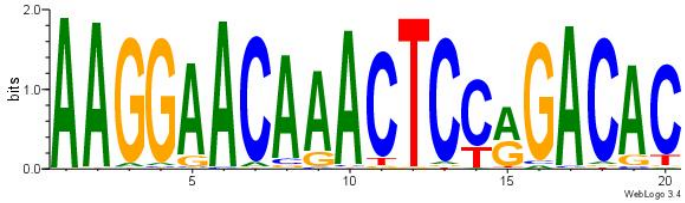

Reverse complement motif Consensus sequence: GTGTCKGGAGTTTGTTCCTT

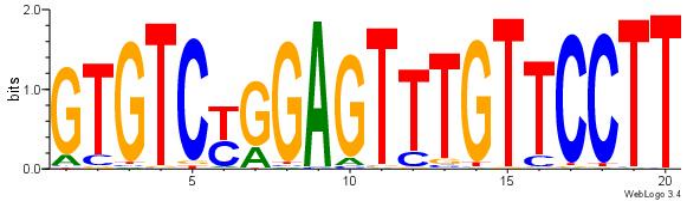

Dataset #:	1
Motif ID:	168
Motif name:	Motif 168
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11

Similarity score: 0.0988139

Alignment:
AGGTATTTCTCCCACC
--GGATTTGAACY---

Original motif Consensus sequence: AGGTATTTCTCCCACC

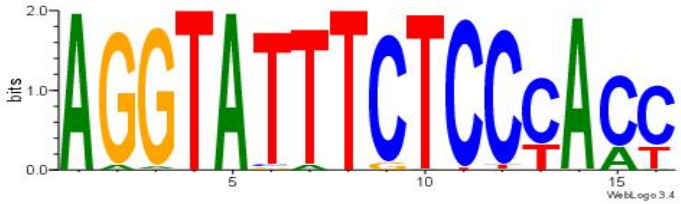

Reverse complement motif Consensus sequence: GGTGGGAGAAATACCT

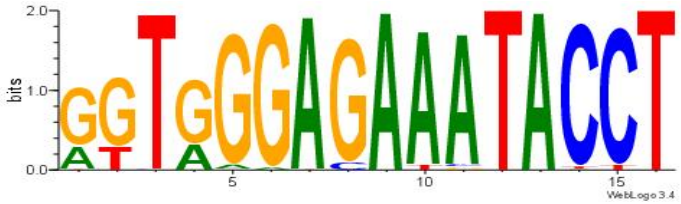

Dataset #: 1 Motif ID: 365 Motif name: Motif 365

Original motif Consensus sequence: AGCTCCGGTCTAC

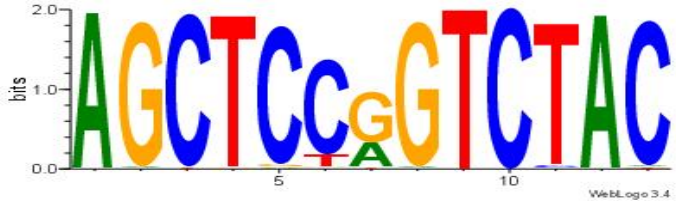

Reverse complement motif Consensus sequence: GTAGACCGGAGCT

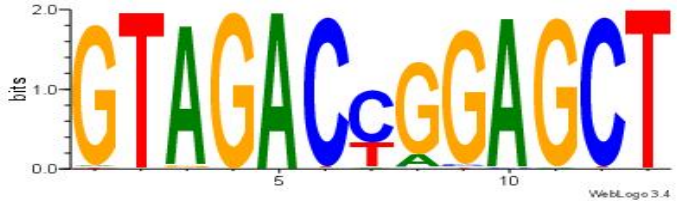

Best Matches for Motif ID 365 (Highest to Lowest)

Dataset #:	1
Motif ID:	62
Motif name:	Motif 62
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.00780309

Alignment:

```
AGGAACAGCTCCRGTCTAC
------AGCTCCGGTCTAC
```

Original motif Consensus sequence: AGGAACAGCTCCRGTCTAC

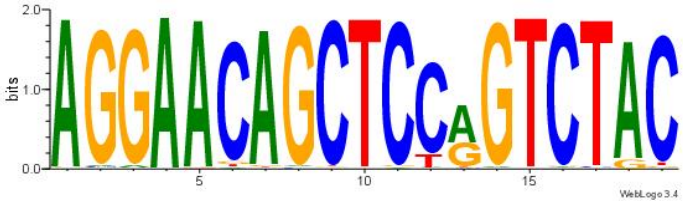

Reverse complement motif Consensus sequence: GTAGACKGGAGCTGTTCCT

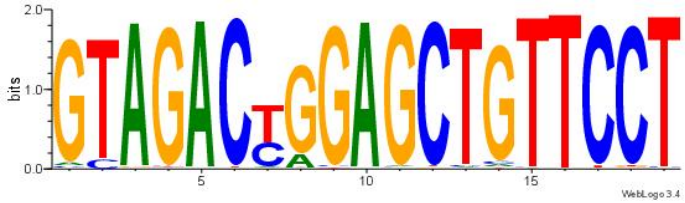

Dataset #:	1
Motif ID:	291
Motif name:	Motif 291
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0802174

Alignment:

```
CTGAGGACCTGAGGTCRTA
----GTAGACCGGAGCT--
```

Original motif Consensus sequence: CTGAGGACCTGAGGTCRTA

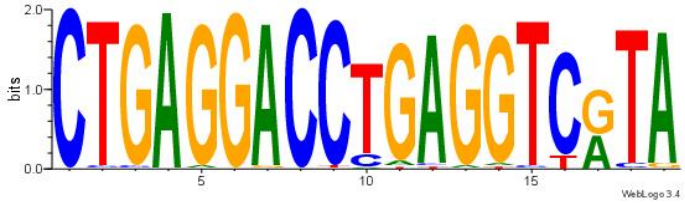

Reverse complement motif Consensus sequence: TAMGACCTCAGGTCCTCAG

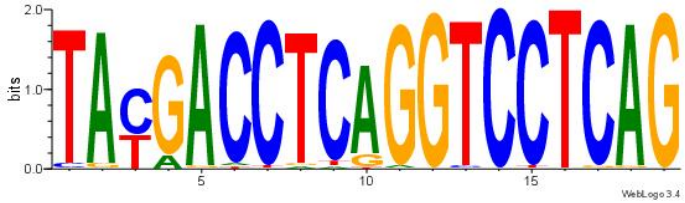

Dataset #:	1
Motif ID:	273
Motif name:	Motif 273
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0814755

Alignment:

```
AGCCTAGGCCTAC
AGCTCCGGTCTAC
```

Original motif Consensus sequence: AGCCTAGGCCTAC

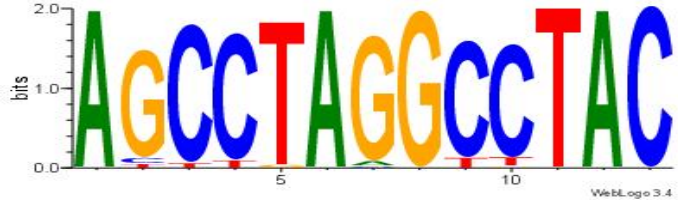

Reverse complement motif Consensus sequence: GTAGGCCTAGGCT

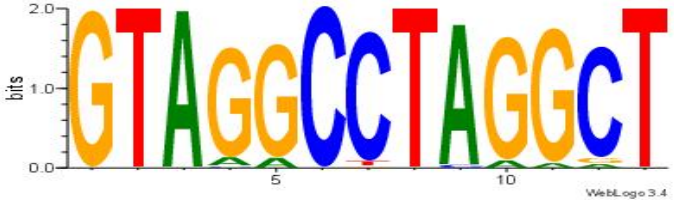

Dataset #:	1
Motif ID:	225
Motif name:	Motif 225
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.0853406

Alignment:

```
AAGTTCTKGGKTACATGTGC
------AGCTCCGGTCTAC-
```

Original motif Consensus sequence: GCACATGTAYCCYAGAACTT

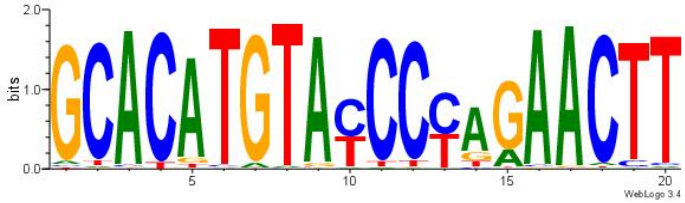

Reverse complement motif Consensus sequence: AAGTTCTKGGKTACATGTGC

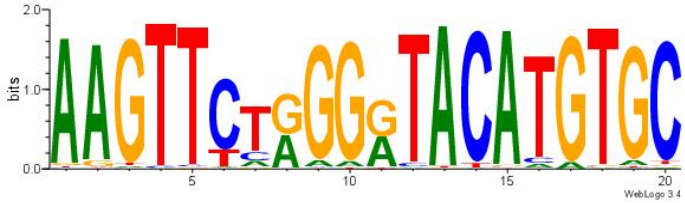

Dataset #:	1
Motif ID:	177
Motif name:	Motif 177
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

Number of overlap: 13
Similarity score: 0.0899013

Alignment:
ACCGAGMKMGCAGCTTCGGG
--GTAGACCGGAGCT-----

Original motif Consensus sequence: CCCGAAGCTGCRYRCTCGGT

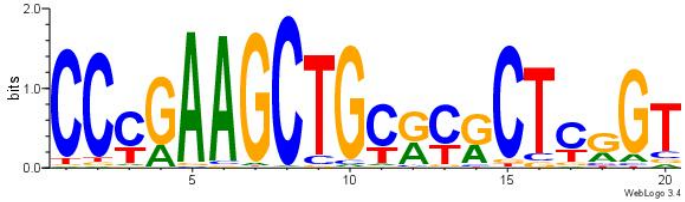

Reverse complement motif Consensus sequence: ACCGAGMKMGCAGCTTCGGG

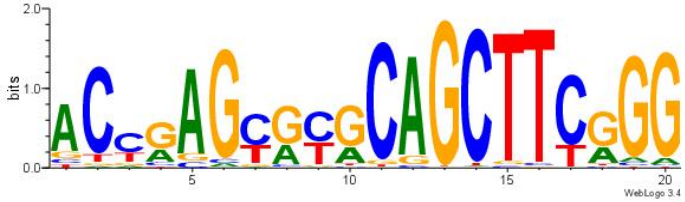

Dataset #: 1
Motif ID: 164
Motif name: Motif 164
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.0913334

Alignment:
AGCCCCGGTTCCCGCYCGC
AGCTCCGGTCTAC------

Original motif Consensus sequence: AGCCCCGGTTCCCGCYCGC

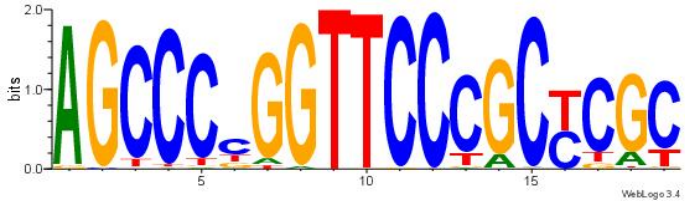

Reverse complement motif Consensus sequence: GCGMGCGGGAACCGGGGCT

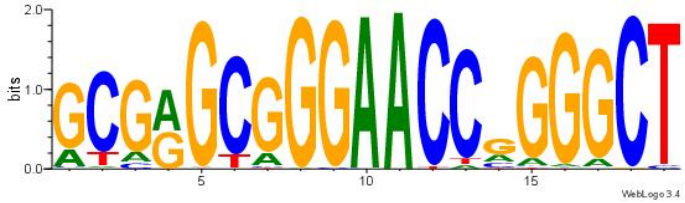

Dataset #:	1
Motif ID:	350
Motif name:	Motif 350
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0929728

Alignment:

```
TCTGGAGTGGACCTCCAGCA
------GTAGACCGGAGCT-
```

Original motif Consensus sequence: TCTGGAGTGGACCTCCAGCA

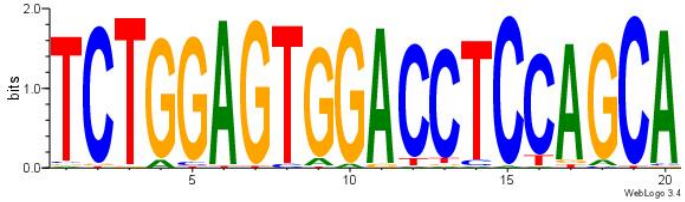

Reverse complement motif Consensus sequence: TGCTGGAGGTCCACTCCAGA

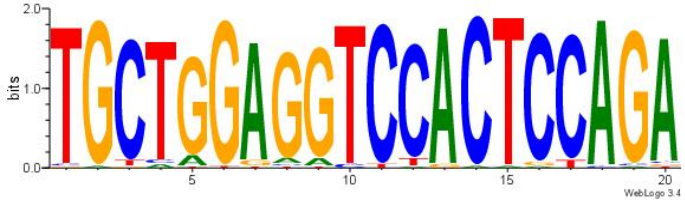

Dataset #:	1
Motif ID:	215
Motif name:	Motif 215
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.095327

Alignment:

```
HGCTCCTGTGSKCCC
AGCTCCGGTCTAC--
```

Original motif Consensus sequence: HGCTCCTGTGSKCCC

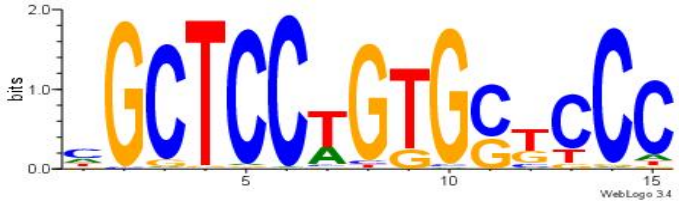

Reverse complement motif Consensus sequence: GGGRSCACAGGAGCD

Dataset #:	1
Motif ID:	139
Motif name:	Motif 139
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0957475

Alignment:
AWTKKTGGTTKCCAGKGGCT
-------GTAGACCGGAGCT

Original motif Consensus sequence: AGCCYCTGGYAACCAYYAWT

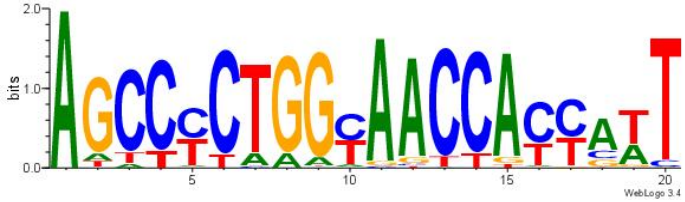

Reverse complement motif Consensus sequence: AWTKKTGGTTKCCAGKGGCT

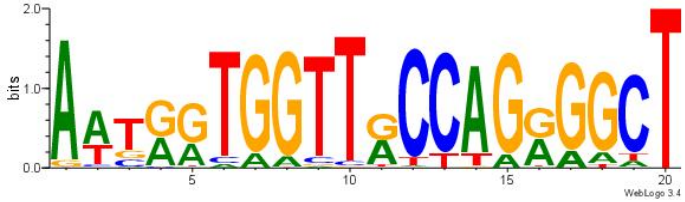

Dataset #: 1
Motif ID: 91
Motif name: Motif 91
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0964848

Alignment:
TTGAGACMGKGTCT
-GTAGACCGGAGCT

Original motif Consensus sequence: AGACYCYGTCTCAA

Reverse complement motif Consensus sequence: TTGAGACMGKGTC

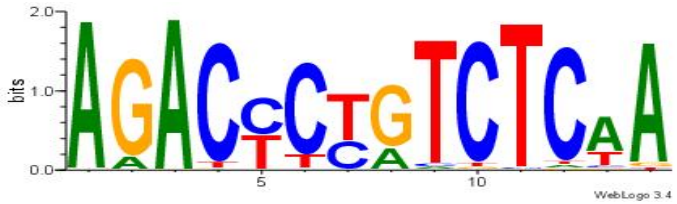

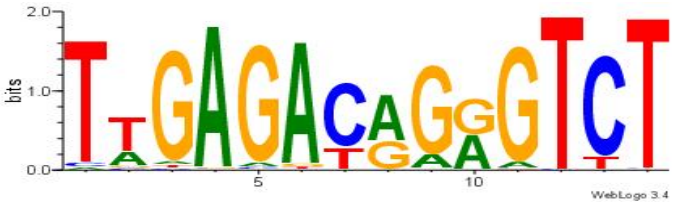

Dataset #:	1
Motif ID:	8
Motif name:	Motif 8
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0992867

Alignment:

```
ATCRCTTGAGSYCAGGAGKT
GTAGACCGGAGCT-------
```

Original motif Consensus sequence: ATCRCTTGAGSYCAGGAGKT

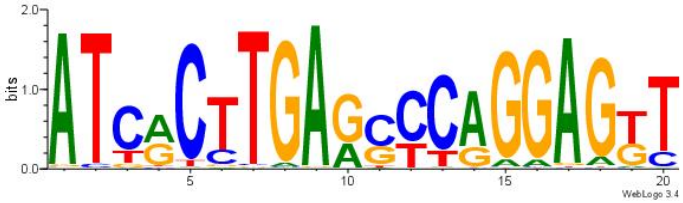

Reverse complement motif Consensus sequence: ARCTCCTGKSCTCAAGKGAT

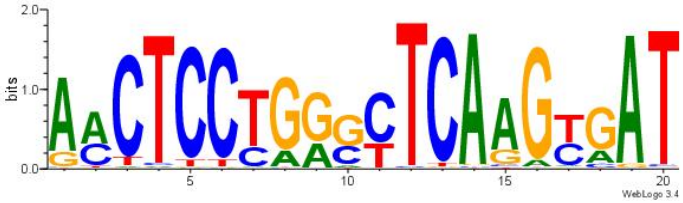

Dataset #:	1

Motif ID:	65
Motif name:	Motif 65
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.100512

Alignment:

```
AGAAATCGAGCRCAGCGCCG
---GTAGACCGGAGCT----
```

Original motif Consensus sequence: AGAAATCGAGCRCAGCGCCG

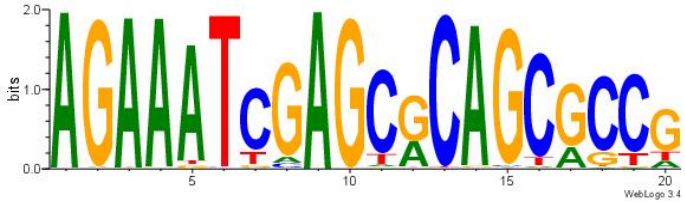

Reverse complement motif Consensus sequence: CGGCGCTGMGCTCGATTTCT

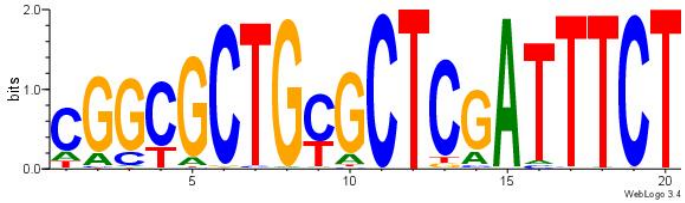

Dataset #:	1
Motif ID:	307
Motif name:	Motif 307
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	13

Similarity score: 0.101682

Alignment:
AGAGCTCTGGCTGGCATCT
----AGCTCCGGTCTAC--

Original motif Consensus sequence: AGATGCCAGCCAGAGCTCT

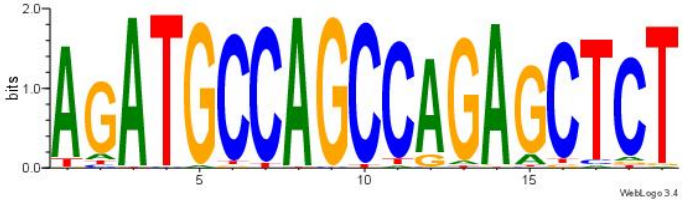

Reverse complement motif Consensus sequence:
AGAGCTCTGGCTGGCATCT

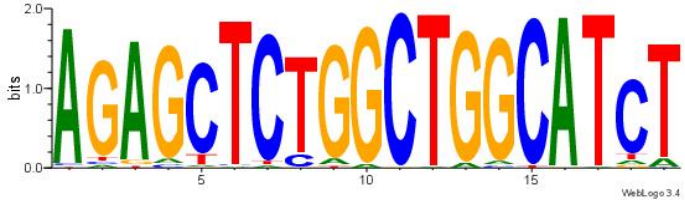

Dataset #: 1
Motif ID: 30
Motif name: Motif 30
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 13
Similarity score: 0.104098

Alignment:
GCCGGGRAGAGGCGCTCCT
---GTAGACCGGAGCT---

Original motif Consensus sequence: AGGAGCGCCTCTKCCCGGC

Reverse complement motif Consensus sequence:
GCCGGGRAGAGGCGCTCCT

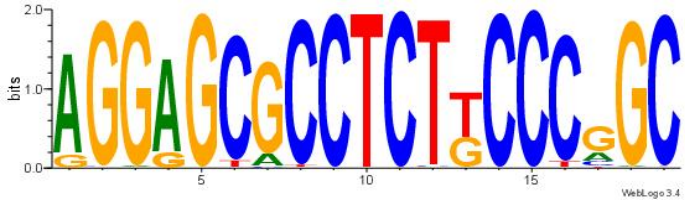

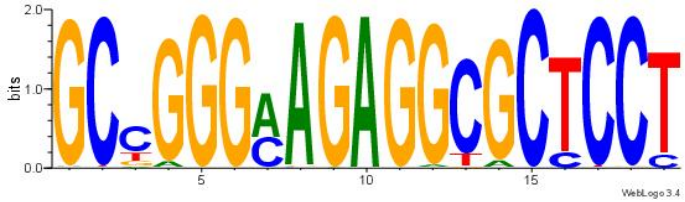

Dataset #:	1
Motif ID:	258
Motif name:	Motif 258
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.1049

Alignment:

```
CCACCAACAGTGTAY
--AGCTCCGGTCTAC
```

Original motif Consensus sequence: CCACCAACAGTGTAY

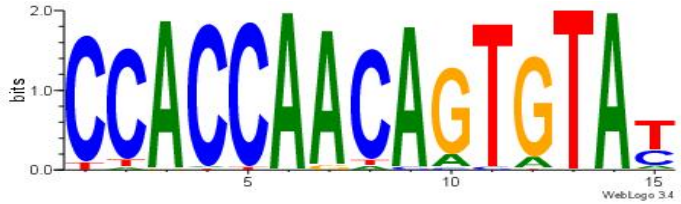

Reverse complement motif Consensus sequence: MTACACTGTTGGTGG

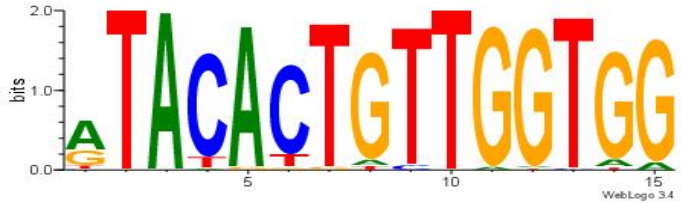

Dataset #:	1
Motif ID:	361

Motif name:	Motif 361
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.105156

Alignment:

GAACTCCTGACCT
GTAGACCGGAGCT

Original motif Consensus sequence: AGGTCAGGAGTTC

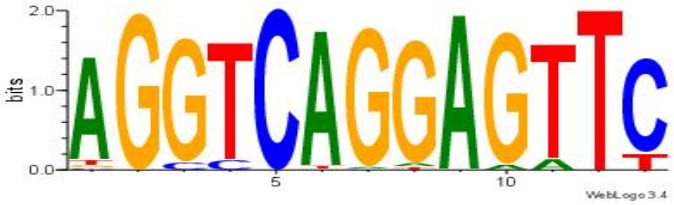

Reverse complement motif Consensus sequence: GAACTCCTGACCT

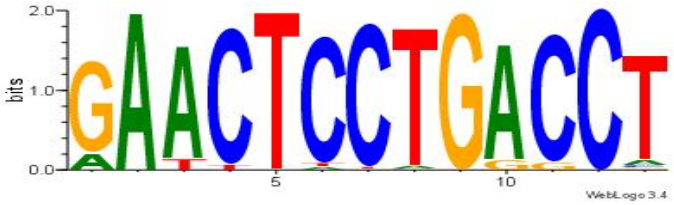

Dataset #:	1
Motif ID:	165
Motif name:	Motif 165
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.105965

Alignment:
AGCTCMKCCTCCTGTCAGAT
-AGCTCCGGTCTAC------

Original motif Consensus sequence: ATCTGACAGGAGGYRGAGCT

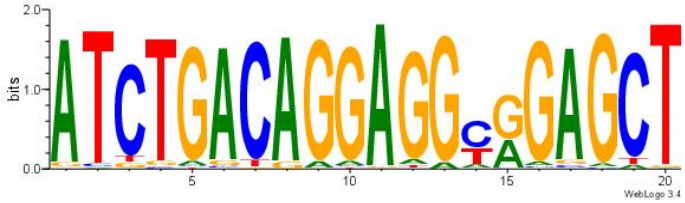

Reverse complement motif Consensus sequence:
AGCTCMKCCTCCTGTCAGAT

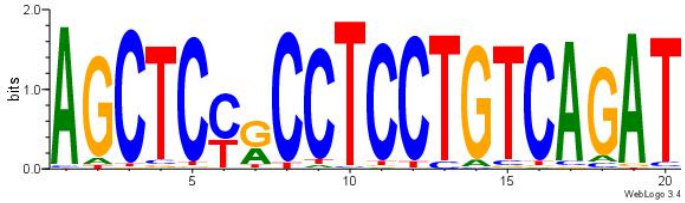

Dataset #:	1
Motif ID:	331
Motif name:	Motif 331
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.107408

Alignment:
CCACCACAGCTCAAGGAGGC
-------AGCTCCGGTCTAC

Original motif Consensus sequence: CCACCACAGCTCAAGGAGGC

Reverse complement motif Consensus sequence:
GCCTCCTTGAGCTGTGGTGG

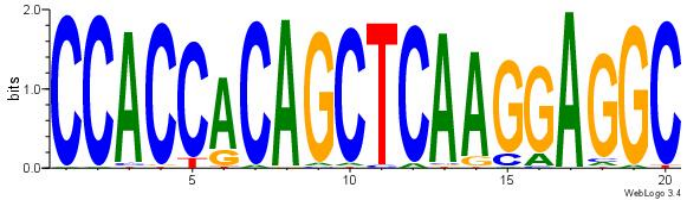

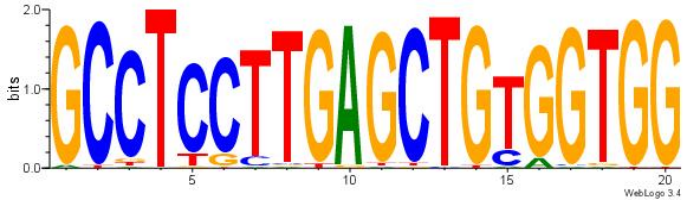

Dataset #:	1
Motif ID:	68
Motif name:	Motif 68
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.10862

Alignment:

```
CATGGCGGGCTGCAGGTC
-GTAGACCGGAGCT----
```

Original motif Consensus sequence: CATGGCGGGCTGCAGGTC

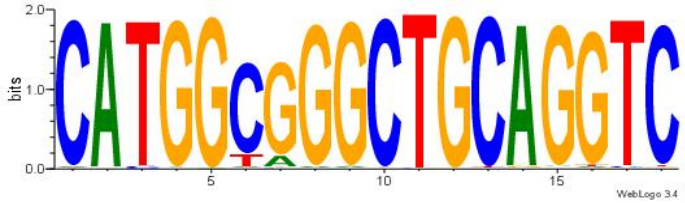

Reverse complement motif Consensus sequence: GACCTGCAGCCCGCCATG

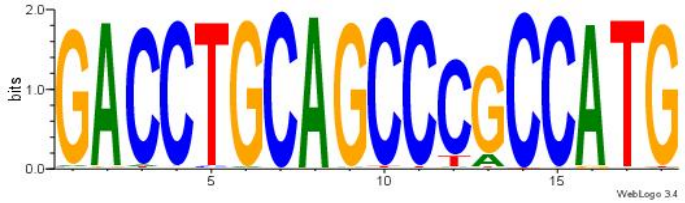

Dataset #:	1

Motif ID:	67
Motif name:	Motif 67
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.109045

Alignment:

```
CACCAGACTCAGGAGCCCAG
----GTAGACCGGAGCT---
```

Original motif Consensus sequence: CTGGGCTCCTGAGTCTGGTG

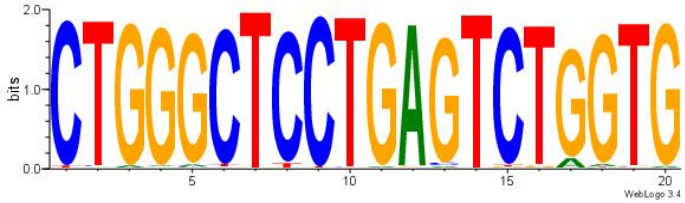

Reverse complement motif Consensus sequence: CACCAGACTCAGGAGCCCAG

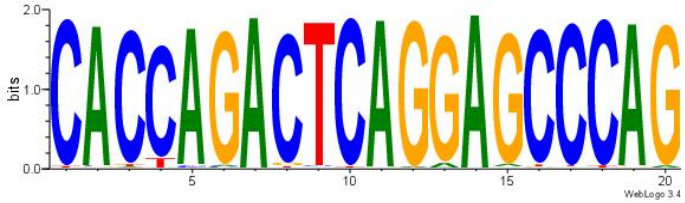

Dataset #:	1
Motif ID:	325
Motif name:	Motif 325
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13

Similarity score: 0.109446

Alignment:
TATTTACAGCTGCT
-GTAGACCGGAGCT

Original motif Consensus sequence: AGCAGCTGTAAATA

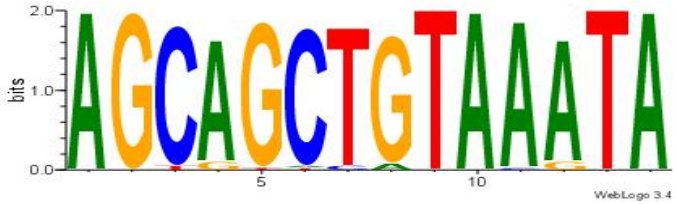

Reverse complement motif Consensus sequence: TATTTACAGCTGCT

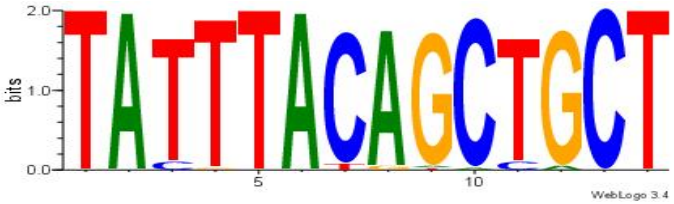

Dataset #: 1
Motif ID: 176
Motif name: Motif 176
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 13
Similarity score: 0.109971

Alignment:
AGGCCCCAGTGTSTGTTGTT
-AGCTCCGGTCTAC------

Original motif Consensus sequence: AGGCCCCAGTGTSTGTTGTT

Reverse complement motif Consensus sequence: AACAACASACACTGGGGCCT

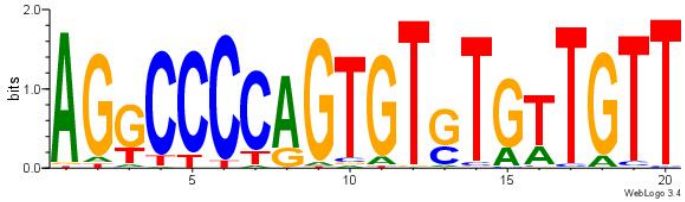

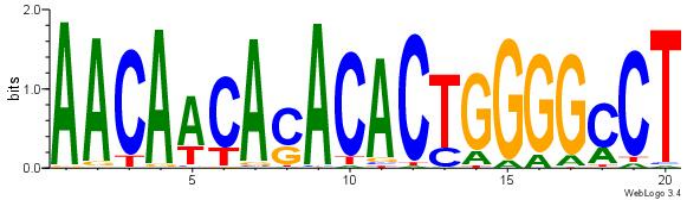

Dataset #:	1
Motif ID:	211
Motif name:	Motif 211
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.110391

Alignment:

```
GACTTCAAGAATGAAGCCG
-GTAGACCGGAGCT-----
```

Original motif Consensus sequence: GACTTCAAGAATGAAGCCG

Reverse complement motif Consensus sequence: CGGCTTCATTCTTGAAGTC

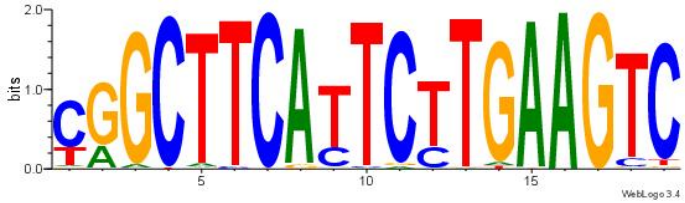

Dataset #: 1

Motif ID:	246
Motif name:	Motif 246
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.110411

Alignment:

```
GCAGCTTCACTCCTGA
--AGCTCCGGTCTAC-
```

Original motif Consensus sequence: GCAGCTTCACTCCTGA

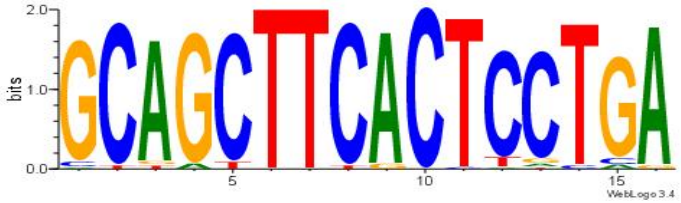

Reverse complement motif Consensus sequence: TCAGGAGTGAAGCTGC

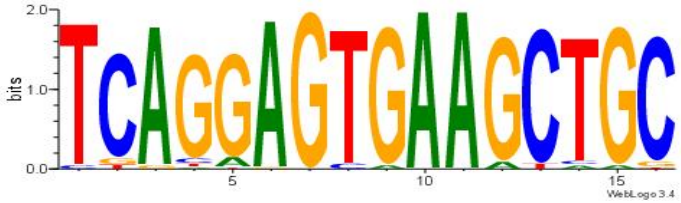

Dataset #:	1
Motif ID:	193
Motif name:	Motif 193
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.111528

Alignment:
ATACAATGGGGGTACAGRC
------GTAGACCGGAGCT

Original motif Consensus sequence: ATACAATGGGGGTACAGRC

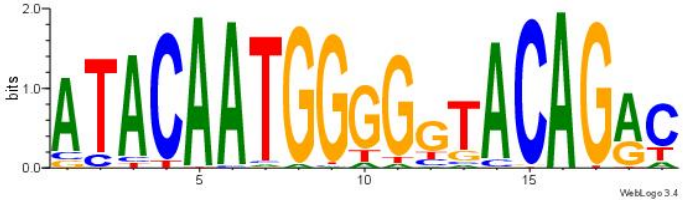

Reverse complement motif Consensus sequence: GKCTGTACCCCCATTGTAT

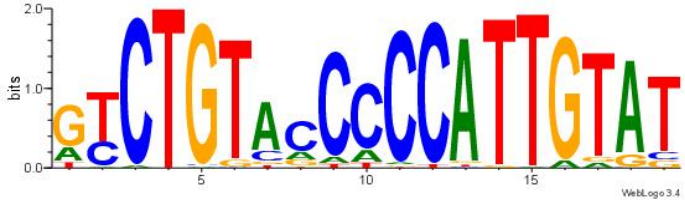

Dataset #: 1
Motif ID: 294
Motif name: Motif 294
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.11192

Alignment:
GTGGCCCTCTTCTCACAGCT
GTAGACCGGAGCT-------

Original motif Consensus sequence: AGCTGTGAGAAGAGGGCCAC

Reverse complement motif Consensus sequence: GTGGCCCTCTTCTCACAGCT

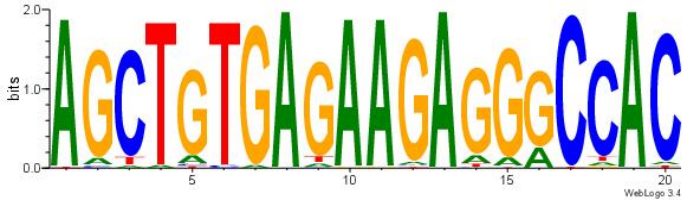

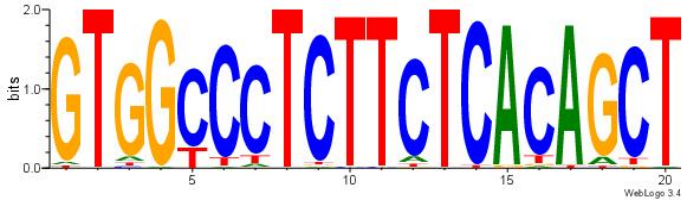

Dataset #:	1
Motif ID:	306
Motif name:	Motif 306
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	13
Similarity score:	0.112051

Alignment:

```
GACATGAGCTGGCGCTTG
--GTAGACCGGAGCT---
```

Original motif Consensus sequence: GACATGAGCTGGCGCTTG

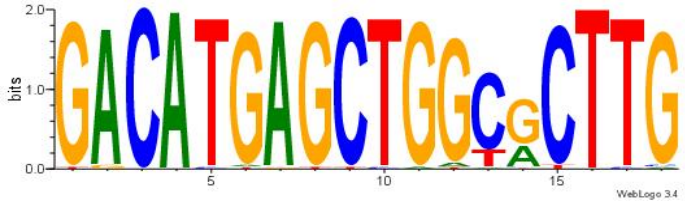

Reverse complement motif Consensus sequence: CAAGCGCCAGCTCATGTC

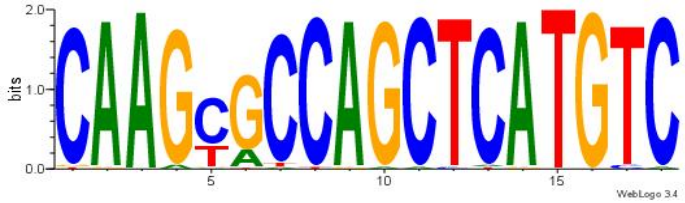

Dataset #: 1

Motif ID:	48
Motif name:	Motif 48
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	13
Similarity score:	0.112101

Alignment:

```
CGTCGCTCACGCTGGGAGCT
-------GTAGACCGGAGCT
```

Original motif Consensus sequence: AGCTCCCAGCGTGAGCGACG

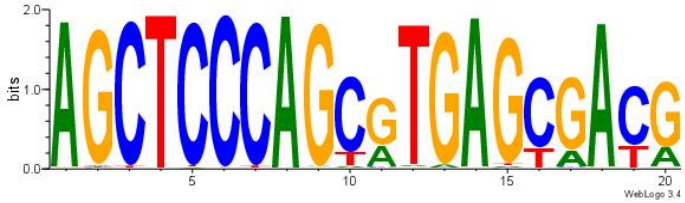

Reverse complement motif Consensus sequence: CGTCGCTCACGCTGGGAGCT

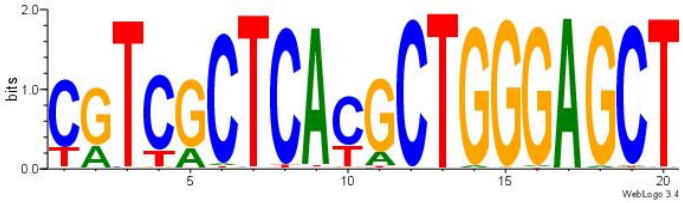

Dataset #:	1
Motif ID:	309
Motif name:	Motif 309
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13

Similarity score: 0.11215

Alignment:
CATTCTGGGGTCTGGAGGAY
-GTAGACCGGAGCT------

Original motif Consensus sequence: CATTCTGGGGTCTGGAGGAY

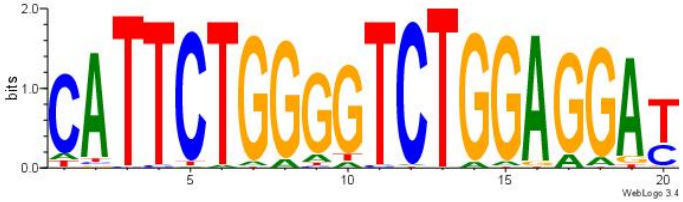

Reverse complement motif Consensus sequence: MTCCTCCAGACCCCAGAATG

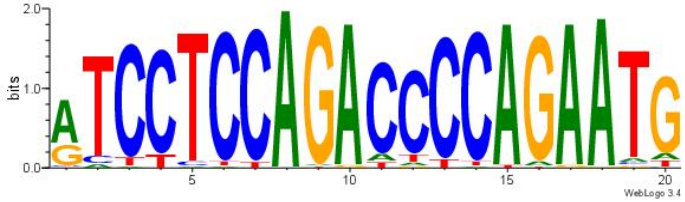

Dataset #: 1
Motif ID: 227
Motif name: Motif 227
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.112365

Alignment:
ATTCAASATGAGATTTGGG
-GTAGACCGGAGCT-----

Original motif Consensus sequence: CCCAAATCTCATSTTGAAT

Reverse complement motif Consensus sequence: ATTCAASATGAGATTTGGG

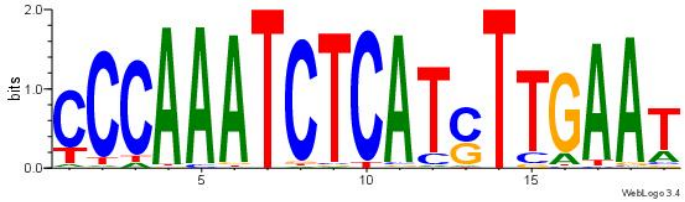

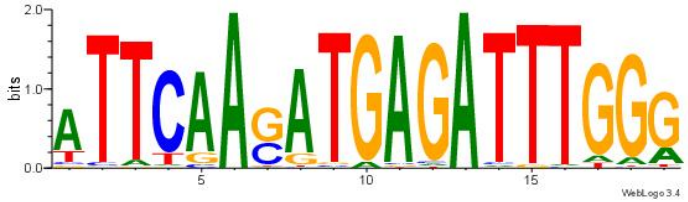

Dataset #:	1
Motif ID:	52
Motif name:	Motif 52
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.1125

Alignment:

```
GACTGGCAGGCAGCTCCACC
-----GTAGACCGGAGCT--
```

Original motif Consensus sequence: GACTGGCAGGCAGCTCCACC

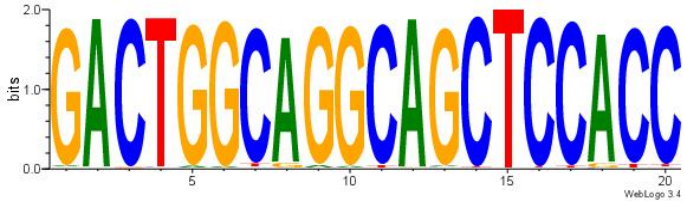

Reverse complement motif Consensus sequence: GGTGGAGCTGCCTGCCAGTC

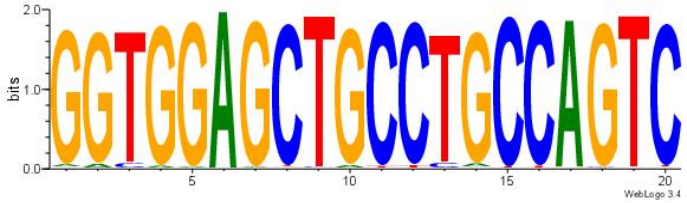

Dataset #: 1

Motif ID:	99
Motif name:	Motif 99
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.113383

Alignment:

```
AATGAKATCATGTCYTTTGC
---AGCTCCGGTCTAC----
```

Original motif Consensus sequence: GCAAAKGACATGATYTCATT

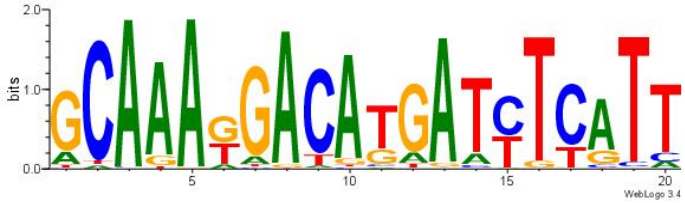

Reverse complement motif Consensus sequence: AATGAKATCATGTCYTTTGC

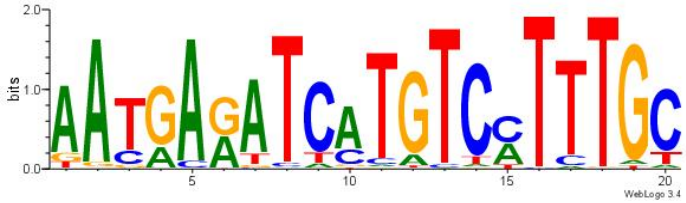

Dataset #:	1
Motif ID:	69
Motif name:	Motif 69
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13

Similarity score: 0.113787

Alignment:
TGTAKTCCCAGCTAC
AGCTCCGGTCTAC--

Original motif Consensus sequence: GTAGCTGGGAYTACA

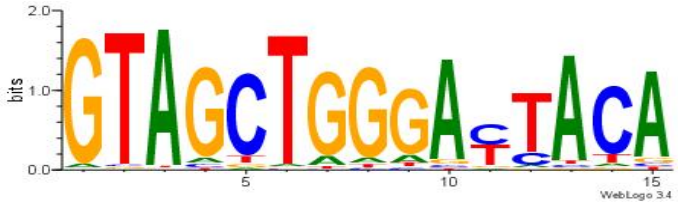

Reverse complement motif Consensus sequence: TGTAKTCCCAGCTA

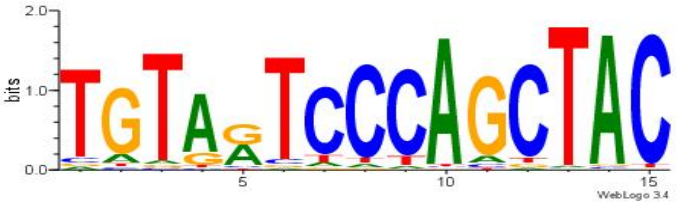

Dataset #: 1
Motif ID: 3
Motif name: Motif 3
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.114764

Alignment:
GCTGGAGTGCAGTGGCRYGA
-GTAGACCGGAGCT------

Original motif Consensus sequence: GCTGGAGTGCAGTGGCRYGA

Reverse complement motif Consensus sequence:
TCKMGCCACTGCACTCCAGC

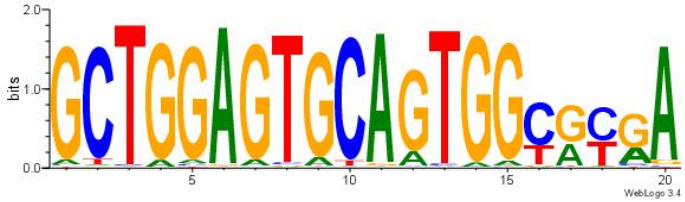

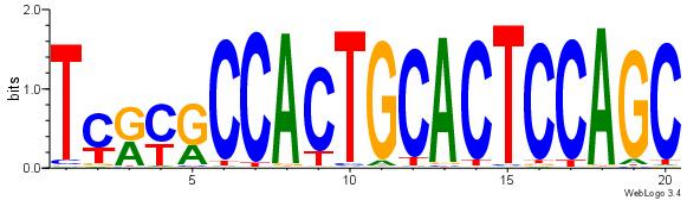

Dataset #:	1
Motif ID:	149
Motif name:	Motif 149
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.114837

Alignment:

```
ACTCAGCCCRCCTGCACCC
----AGCTCCGGTCTAC--
```

Original motif Consensus sequence: ACTCAGCCCRCCTGCACCC

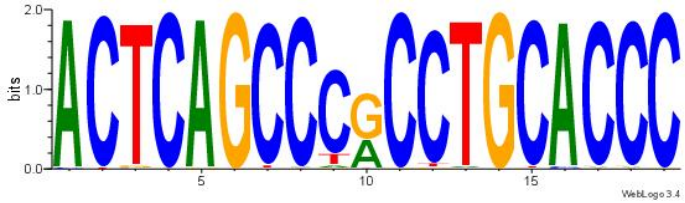

Reverse complement motif Consensus sequence: GGGTGCAGGMGGGCTGAGT

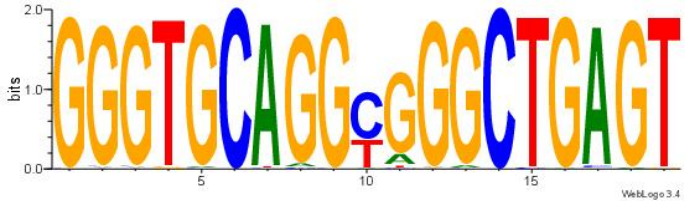

Dataset #:	1

Motif ID:	98
Motif name:	Motif 98
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.115335

Alignment:

```
CCCACGCCCACCCGGAACT
------GTAGACCGGAGCT
```

Original motif Consensus sequence: AGTTCCGGGTGGGCGTGGG

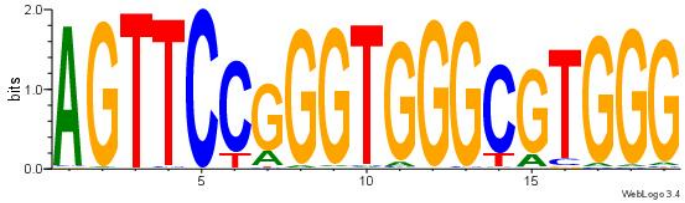

Reverse complement motif Consensus sequence: CCCACGCCCACCCGGAACT

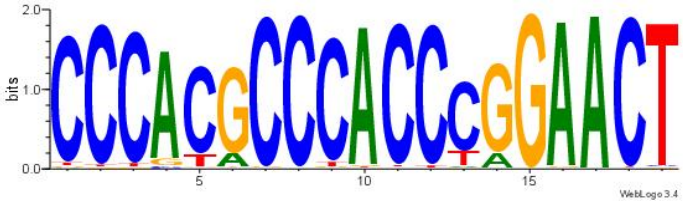

Dataset #:	1
Motif ID:	64
Motif name:	Motif 64
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.115347

Alignment:
GAAGGCAGCTAAGGCCCGGY
------AGCTCCGGTCTAC-

Original motif Consensus sequence: GAAGGCAGCTAAGGCCCGGY

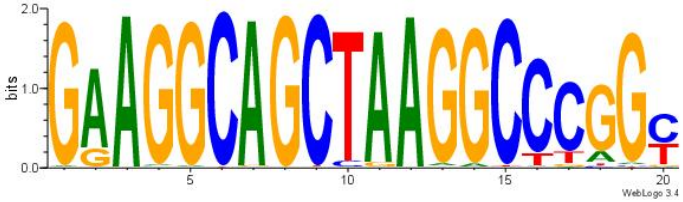

Reverse complement motif Consensus sequence: KCCGGGCCTTAGCTGCCTTC

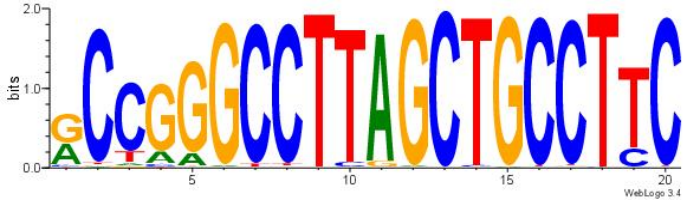

Dataset #: 1
Motif ID: 25
Motif name: Motif 25
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.115642

Alignment:
GTACCTCAGWTGGAAATG
---AGCTCCGGTCTAC--

Original motif Consensus sequence: CATTTCCAWCTGAGGTAC

Reverse complement motif Consensus sequence: GTACCTCAGWTGGAAATG

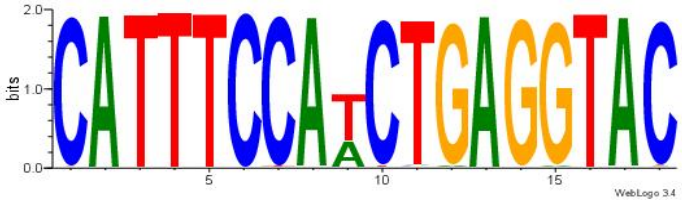

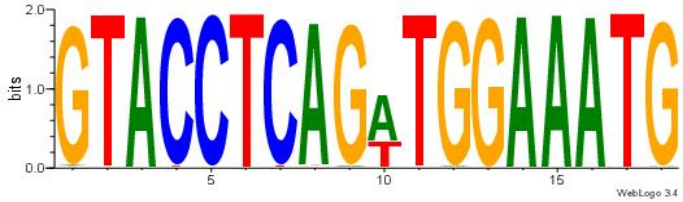

Dataset #:	1
Motif ID:	232
Motif name:	Motif 232
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.115661

Alignment:

```
AAGTCTCCCAATTACAACT
----AGCTCCGGTCTAC--
```

Original motif Consensus sequence: AGTTGTAATTGGGAGACTT

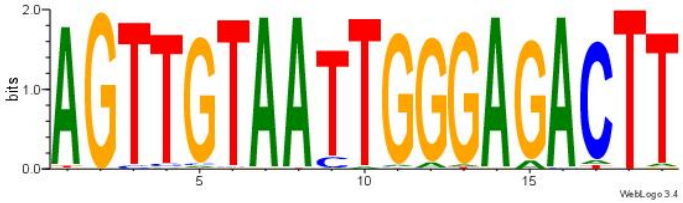

Reverse complement motif Consensus sequence: AAGTCTCCCAATTACAACT

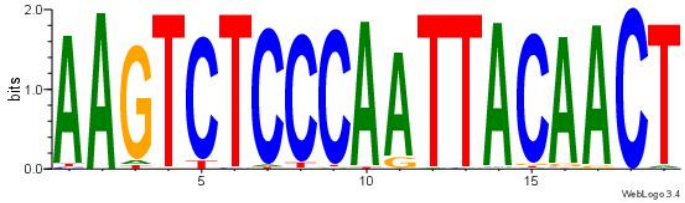

Dataset #:	1

Motif ID:	78
Motif name:	Motif 78
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.116334

Alignment:

```
CGAGCCCTGCCCCGCGG
--AGCTCCGGTCTAC--
```

Original motif Consensus sequence: CGAGCCCTGCCCCGCGG

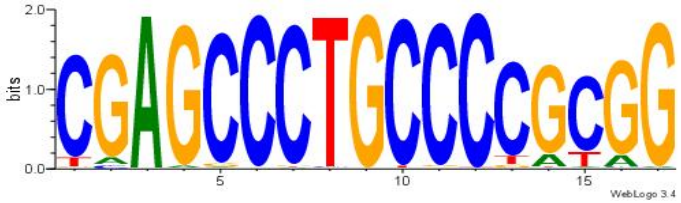

Reverse complement motif Consensus sequence: CCGCGGGGCAGGGCTCG

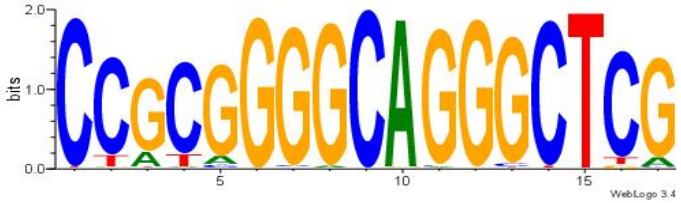

Dataset #:	1
Motif ID:	26
Motif name:	Motif 26
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13

Similarity score: 0.117293

Alignment:
CTCCTGCCTCAGCCTCCCRA
----AGCTCCGGTCTAC---

Original motif Consensus sequence: CTCCTGCCTCAGCCTCCCRA

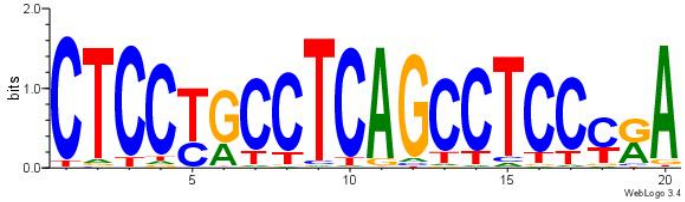

Reverse complement motif Consensus sequence: TMGGGAGGCTGAGGCAGGAG

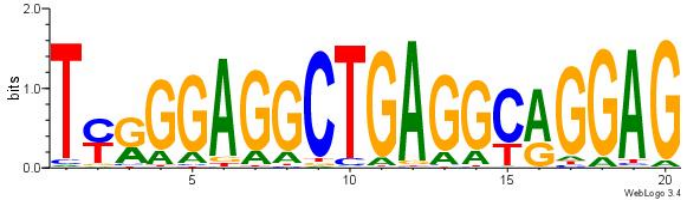

Dataset #: 1
Motif ID: 72
Motif name: Motif 72
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.119215

Alignment:
GGCTGAGGAGTGCG
-AGCTCCGGTCTAC

Original motif Consensus sequence: CGCACTCCTCAGCC

Reverse complement motif Consensus sequence: GGCTGAGGAGTGC

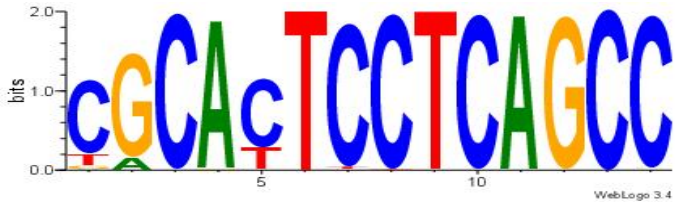

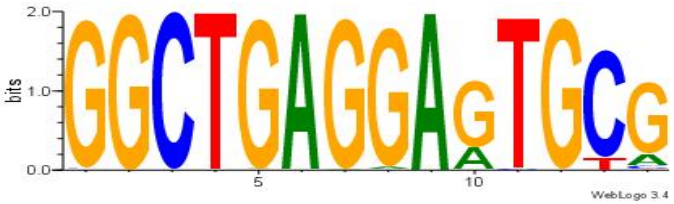

Dataset #:	1
Motif ID:	280
Motif name:	Motif 280
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	13
Similarity score:	0.119227

Alignment:

```
CCTAGATTTCAGARGATGT
-----GTAGACCGGAGCT-
```

Original motif Consensus sequence: CCTAGATTTCAGARGATGT

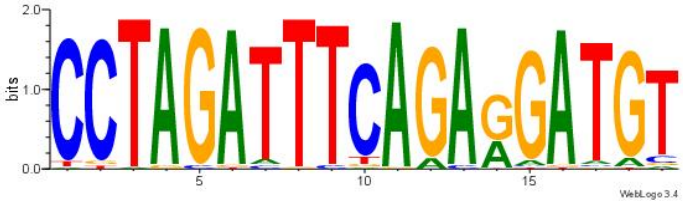

Reverse complement motif Consensus sequence: ACATCMTCTGAAATCTAGG

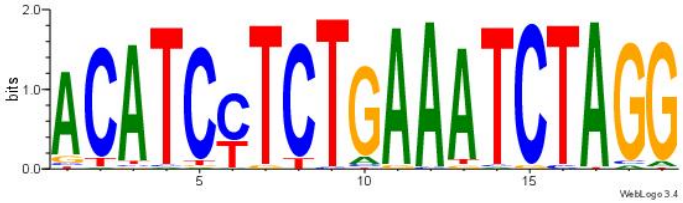

Dataset #:	1

Motif ID:	279
Motif name:	Motif 279
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.119391

Alignment:

```
MGTGTGATGTCTCCCCC
---AGCTCCGGTCTAC-
```

Original motif Consensus sequence: GGGGGAGACATCACACR

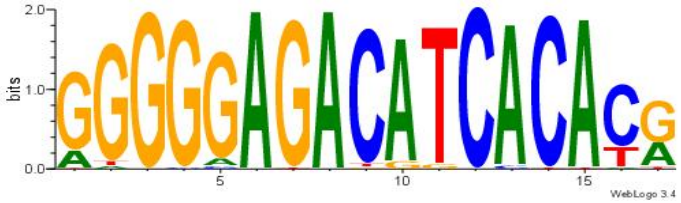

Reverse complement motif Consensus sequence: MGTGTGATGTCTCCCCC

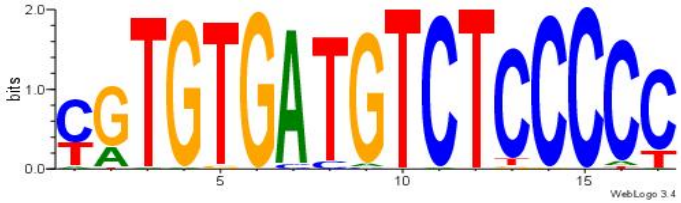

Dataset #:	1
Motif ID:	13
Motif name:	Motif 13
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	13

Similarity score: 0.120314

Alignment:
GGCAATGCCTCGCCCTGCTT
--AGCTCCGGTCTAC-----

Original motif Consensus sequence: AAGCAGGGCGAGGCATTGCC

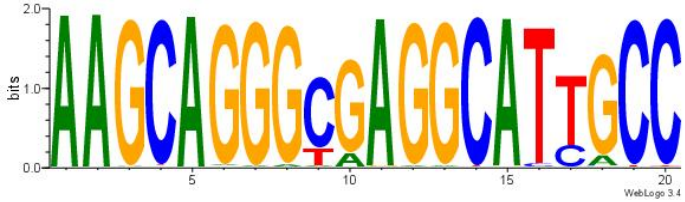

Reverse complement motif Consensus sequence:
GGCAATGCCTCGCCCTGCTT

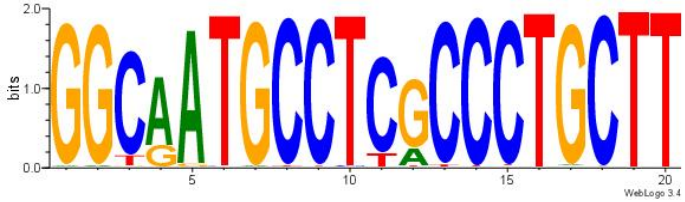

Dataset #: 1
Motif ID: 175
Motif name: Motif 175
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.120685

Alignment:
AGCTAGAYACAGAGTGC
----AGCTCCGGTCTAC

Original motif Consensus sequence: AGCTAGAYACAGAGTGC

Reverse complement motif Consensus sequence:
GCACTCTGTMTCTAGCT

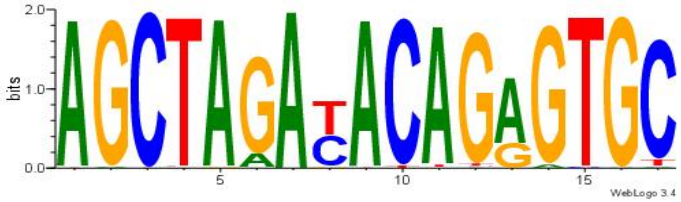

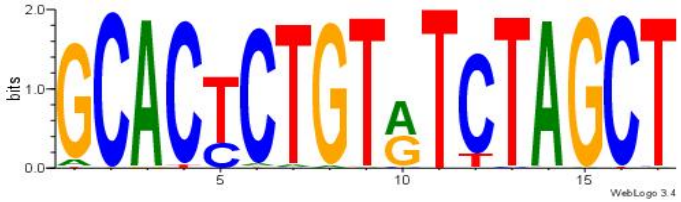

Dataset #:	1
Motif ID:	14
Motif name:	Motif 14
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.120732

Alignment:

```
AGTGACCCGATTTTCCAGGT
-----AGCTCCGGTCTAC--
```

Original motif Consensus sequence: ACCTGGAAAATCGGGTCACT

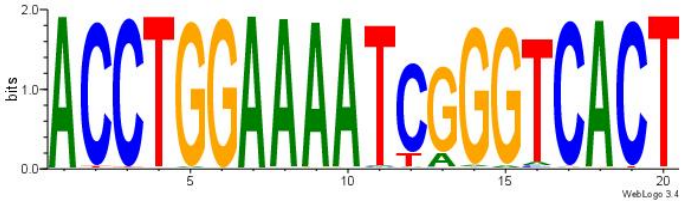

Reverse complement motif Consensus sequence: AGTGACCCGATTTTCCAGGT

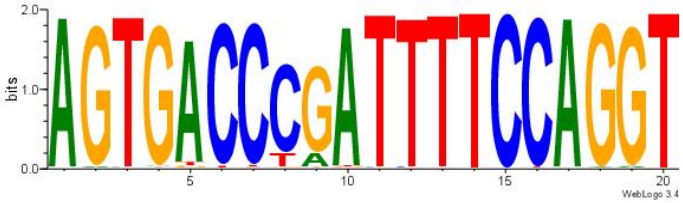

Dataset #:	1

Motif ID:	96
Motif name:	Motif 96
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	13
Similarity score:	0.121202

Alignment:

```
GGAGCCGGCTCCCTCAGCTT
------GTAGACCGGAGCT-
```

Original motif Consensus sequence: AAGCTGAGGGAGCCGGCTCC

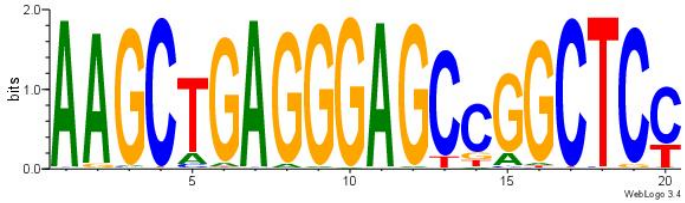

Reverse complement motif Consensus sequence: GGAGCCGGCTCCCTCAGCTT

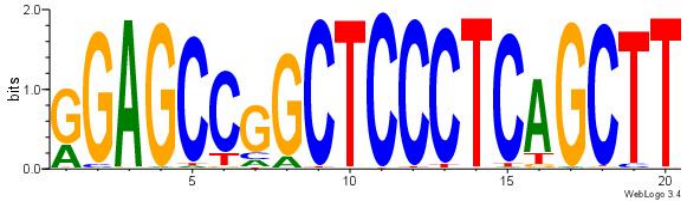

Dataset #:	1
Motif ID:	311
Motif name:	Motif 311
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13

Similarity score: 0.12165

Alignment:
GGCATCACGGATCCTACCAA
------GTAGACCGGAGCT-

Original motif Consensus sequence: GGCATCACGGATCCTACCAA

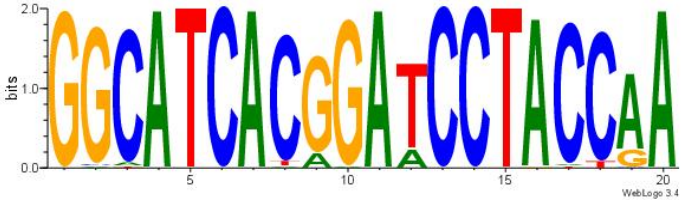

Reverse complement motif Consensus sequence: TTGGTAGGATCCGTGATGCC

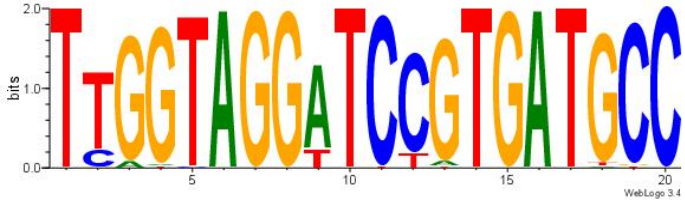

Dataset #: 1
Motif ID: 257
Motif name: Motif 257
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.121939

Alignment:
TGTCCATGTGTTCTC
--AGCTCCGGTCTAC

Original motif Consensus sequence: GAGAACACATGGACA

Reverse complement motif Consensus sequence: TGTCCATGTGTTCT

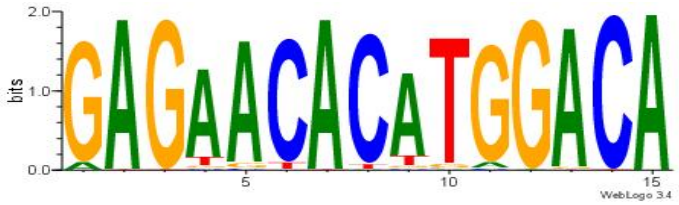

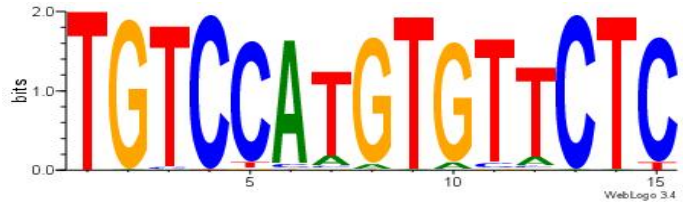

Results created by MOTIFSIM on 03-26-2023 13:05:23
Runtime: 1419.98 seconds

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